

Quantitative Analysis Sample Based Report

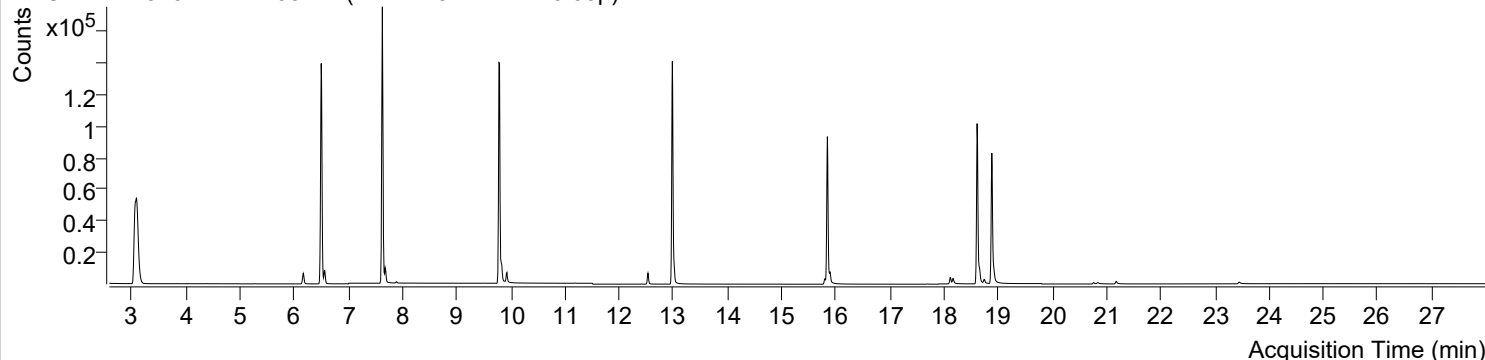


Trusted Answers

| | | | |
|---------------------------|--|-----------------------|------------------------|
| Batch Data Path File Name | D:\MassHunter\GCMS\1\data\PAHs\220707-PAHs-Sample\QuantResults\220707-PAHs-Quant.batch.bin | | |
| Analysis Time Stamp | 2022-07-09 오전 11:12:52 | Analyst Name | DESKTOP-86B7UPG\5975MS |
| Report Generation Time | 2022-07-09 오전 11:13:20 | Report Generator Name | DESKTOP-86B7UPG\5975MS |
| Calibration Last Update | 2022-07-09 오전 11:04:15 | Batch State | Processed |
| Analyze Quant Version | 10.2 | Report Quant Version | 10.2 |
| Acq. Date-Time | 2022-07-07 오후 2:52:28 | Data File | 220707-PAHs-004.D |
| Type | Sample | Name | PAHs-19mix-STD-0.05p |
| Dil. | 1 | Acq. Method File | PAHs 19mix-Method |

Sample Chromatogram

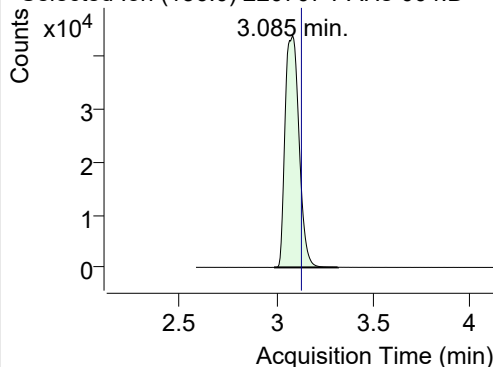
+ TIC SIM 220707-PAHs-004.D (PAHs-19mix-STD-0.05p)



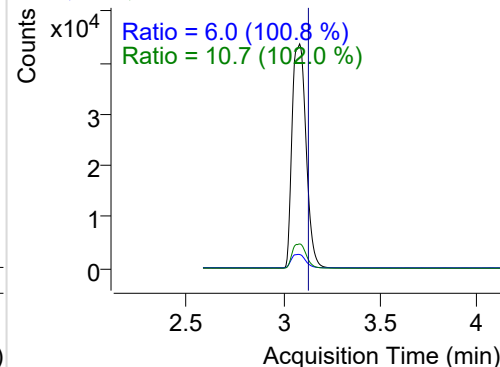
| Name | RT | Transition | Resp. | Height | Final Conc. Units | Ratio |
|-------------------------|--------|------------|--------|----------|-------------------|-------|
| IS-D8-Naphthalene | 3.085 | 136.0 | 218434 | 43618.84 | ND ng/ml | 10.7 |
| Naphthalene | 3.107 | 128.0 | 12556 | 2547.55 | ND ng/ml | 12.7 |
| Acenaphthylene | 6.167 | 152.0 | 9985 | 4984.99 | ND ng/ml | 19.4 |
| IS-D10-Acenaphthene | 6.499 | 164.0 | 122587 | 66434.25 | ND ng/ml | 95.6 |
| Acenaphthene | 6.564 | 154.0 | 5511 | 2916.36 | ND ng/ml | 107.9 |
| LSS-D10-Fluorene | 7.627 | 176.0 | 128556 | 78948.06 | ND ng/ml | 92.8 |
| Fluorene | 7.680 | 166.0 | 6948 | 3969.63 | ND ng/ml | 93.2 |
| IS-D10-Phenanthrene | 9.790 | 188.0 | 202667 | 113417.7 | ND ng/ml | 15.0 |
| Phenanthrene | 9.832 | 178.0 | 10343 | 5721.18 | ND ng/ml | 19.4 |
| Anthracene | 9.927 | 178.0 | 7612 | 4184.17 | ND ng/ml | 19.2 |
| Fluoranthene | 12.532 | 202.0 | 9082 | 5326.53 | ND ng/ml | 17.1 |
| LSS-D10-Pyrene | 12.981 | 212.0 | 169413 | 103793.6 | ND ng/ml | 17.9 |
| Pyrene | 13.014 | 202.0 | 10986 | 6482.26 | ND ng/ml | 18.4 |
| Benz(a)anthracene | 15.795 | 228.0 | 4854 | 2330.39 | ND ng/ml | 24.7 |
| IS-D12-Chrysene | 15.844 | 240.0 | 123646 | 69625.04 | ND ng/ml | 18.8 |
| Chrysene | 15.892 | 228.0 | 6724 | 3487.05 | ND ng/ml | 29.2 |
| Benzo(b)fluoranthene | 18.117 | 252.0 | 4312 | 2305.75 | ND ng/ml | 21.2 |
| Benzo(k)fluoranthene | 18.167 | 252.0 | 4443 | 1941.03 | ND ng/ml | 20.9 |
| SS-D12-Benzo(e)pyrene | 18.608 | 264.0 | 123582 | 68174.68 | ND ng/ml | 25.6 |
| Benzo(e)pyrene | 18.651 | 252.0 | 7058 | 3657.61 | ND ng/ml | 23.1 |
| Benzo(a)pyrene | 18.744 | 252.0 | 2638 | 1320.78 | ND ng/ml | 21.9 |
| IS-D12-Perylene | 18.879 | 264.0 | 106440 | 56121.50 | ND ng/ml | 23.7 |
| Perylene | 18.915 | 252.0 | 5398 | 2474.37 | ND ng/ml | 22.4 |
| Indeno(1,2,3-c,d)pyrene | 20.759 | 276.0 | 1576 | 685.41 | ND ng/ml | 18.8 |
| Dibenz(a,h)anthracene | 20.835 | 278.0 | 1419 | 420.26 | ND ng/ml | 24.7 |
| Benzo(g,h,i)perylene | 21.179 | 276.0 | 3135 | 1248.15 | ND ng/ml | 23.4 |
| Coronene | 23.447 | 300.0 | 2267 | 652.02 | ND ng/ml | 23.8 |

IS-D8-Naphthalene

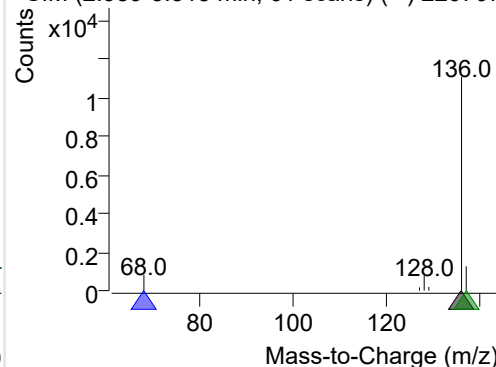
+ Selected Ion (136.0) 220707-PAHs-004.D



136.0, 68.0, 137.0

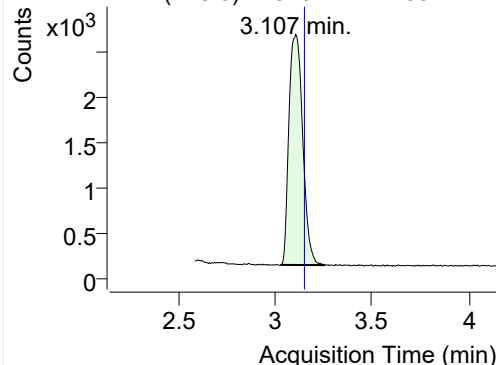


+ SIM (2.989-3.318 min, 61 scans) (**) 220707

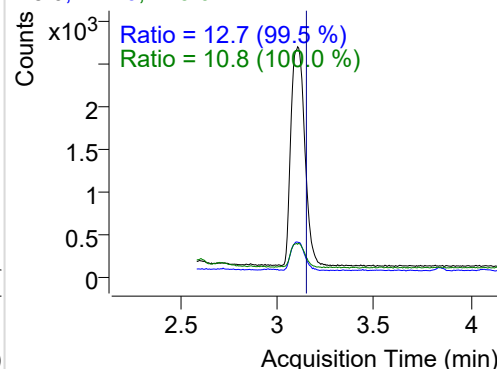


Naphthalene

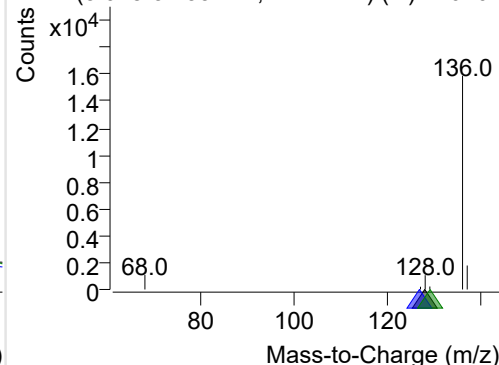
+ Selected Ion (128.0) 220707-PAHs-004.D



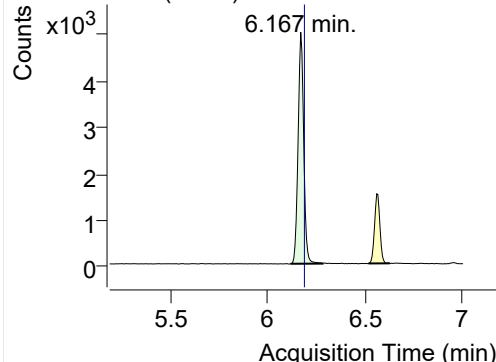
128.0, 127.0, 129.0



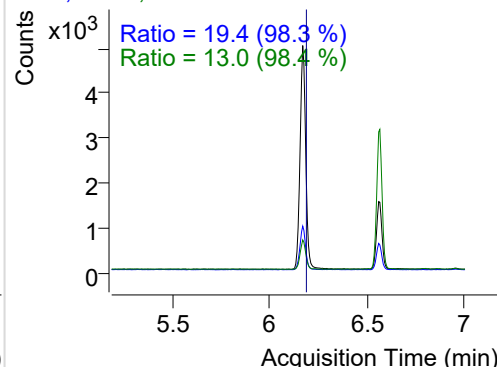
+ SIM (3.028-3.253 min, 42 scans) (**) 220707

**Acenaphthylene**

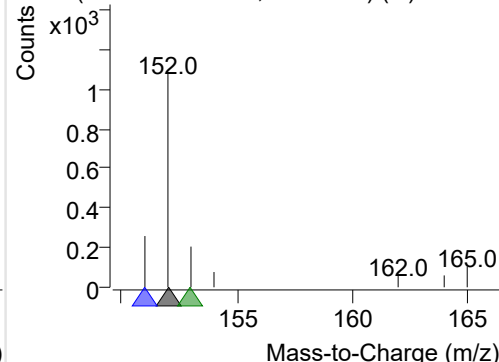
+ Selected Ion (152.0) 220707-PAHs-004.D



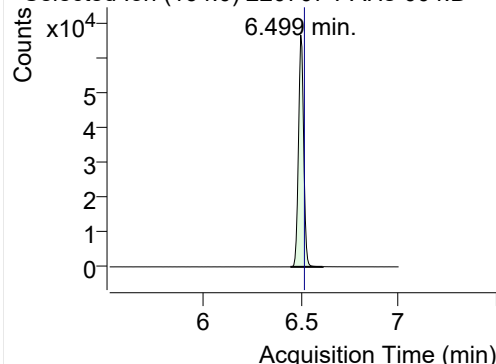
152.0, 151.0, 153.0



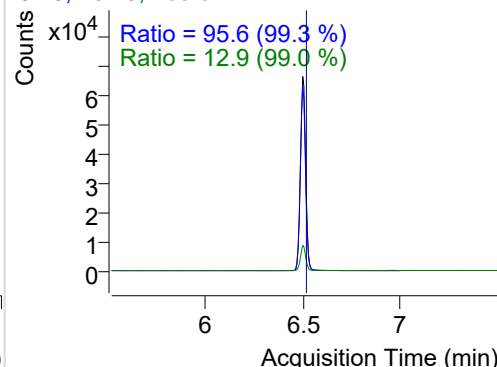
+ SIM (6.115-6.280 min, 28 scans) (**) 220707

**IS-D10-Acenaphthene**

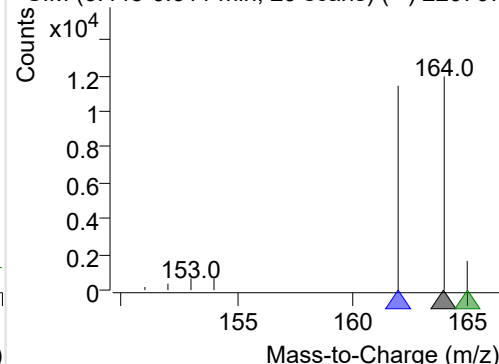
+ Selected Ion (164.0) 220707-PAHs-004.D



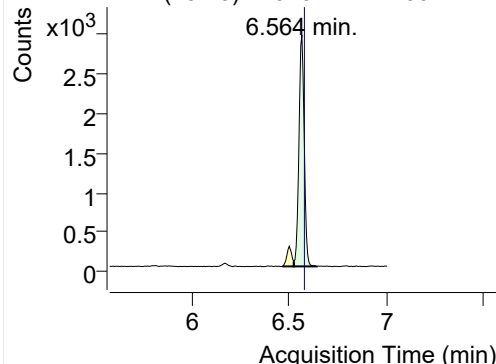
164.0, 162.0, 165.0



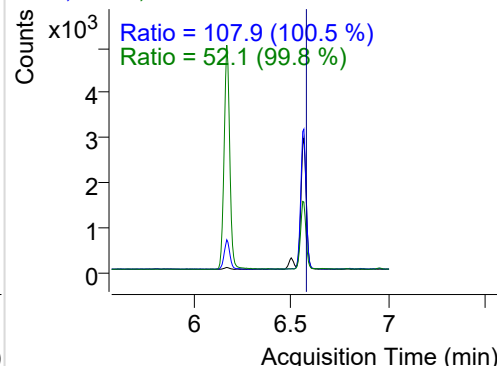
+ SIM (6.445-6.611 min, 29 scans) (**) 220707

**Acenaphthene**

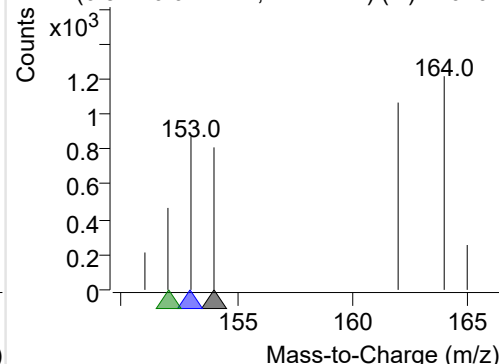
+ Selected Ion (154.0) 220707-PAHs-004.D



154.0, 153.0, 152.0

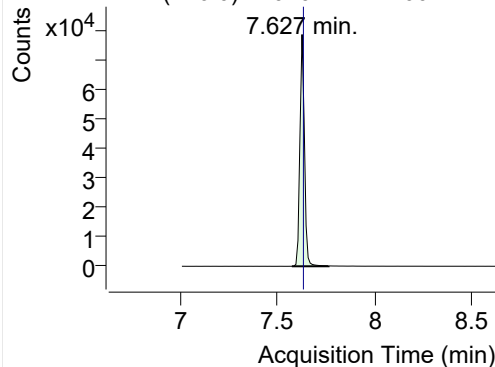


+ SIM (6.522-6.641 min, 21 scans) (**) 220707

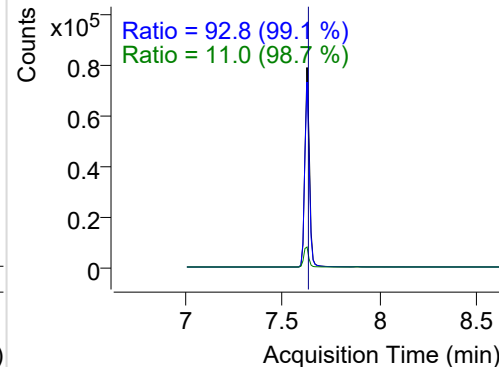


LSS-D10-Fluorene

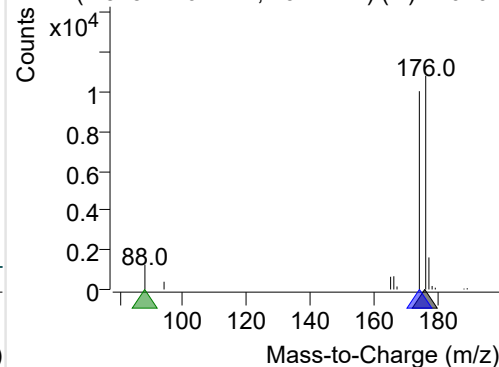
+ Selected Ion (176.0) 220707-PAHs-004.D



176.0, 174.0, 88.0

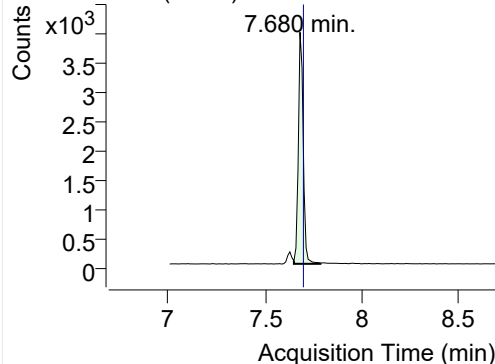


+ SIM (7.575-7.764 min, 19 scans) (**) 220707

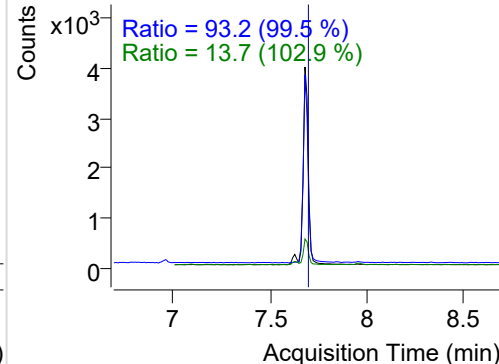


Fluorene

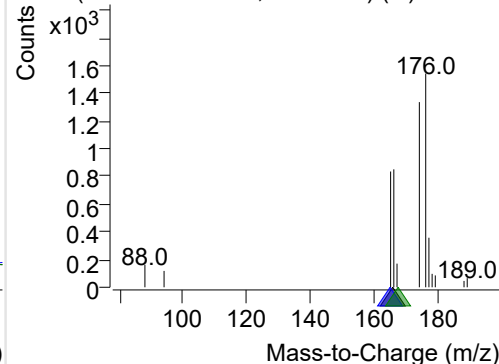
+ Selected Ion (166.0) 220707-PAHs-004.D



166.0, 165.0, 167.0

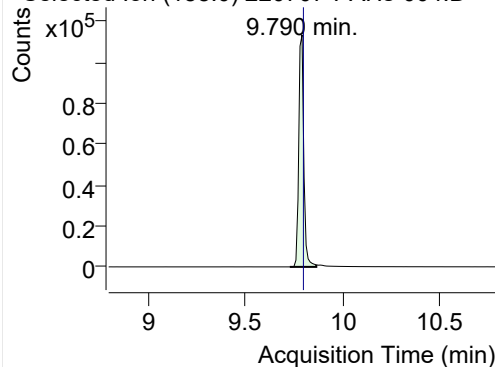


+ SIM (7.648-7.785 min, 14 scans) (**) 220707

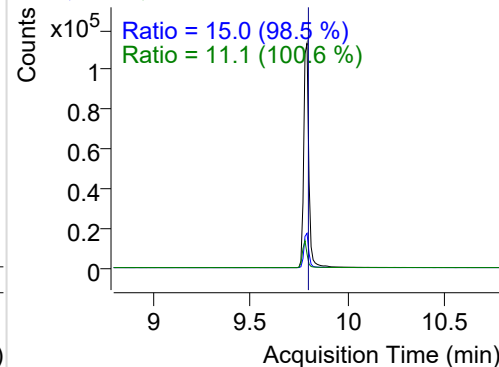


IS-D10-Phenanthrene

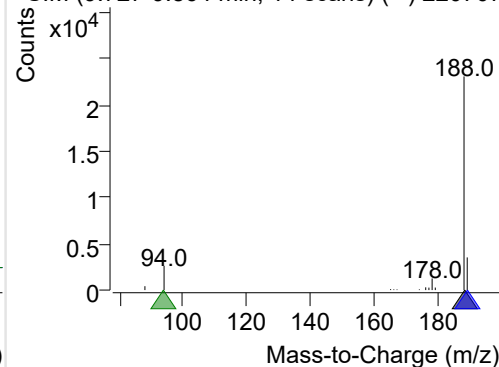
+ Selected Ion (188.0) 220707-PAHs-004.D



188.0, 189.0, 94.0

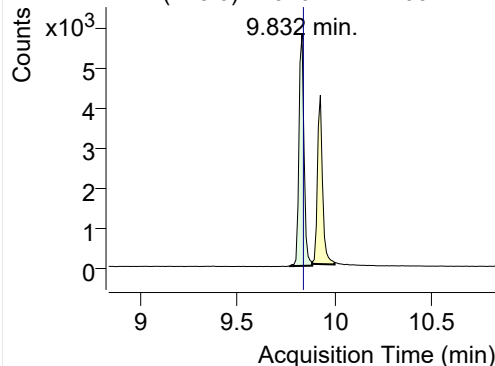


+ SIM (9.727-9.864 min, 14 scans) (**) 220707

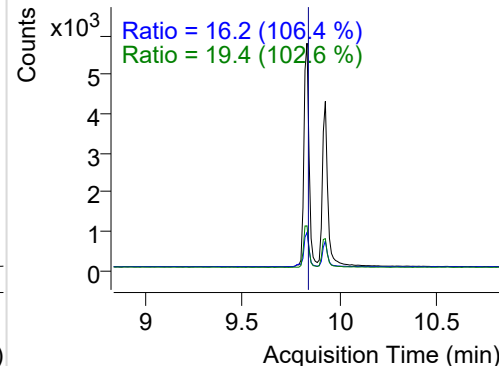


Phenanthrene

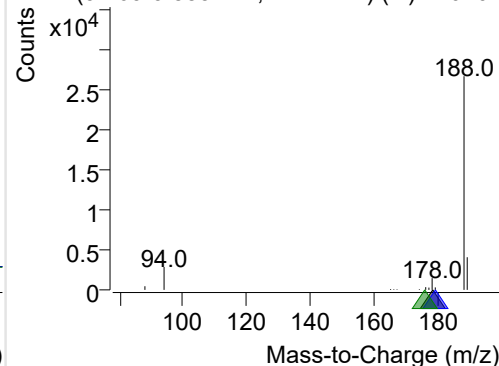
+ Selected Ion (178.0) 220707-PAHs-004.D



178.0, 179.0, 176.0

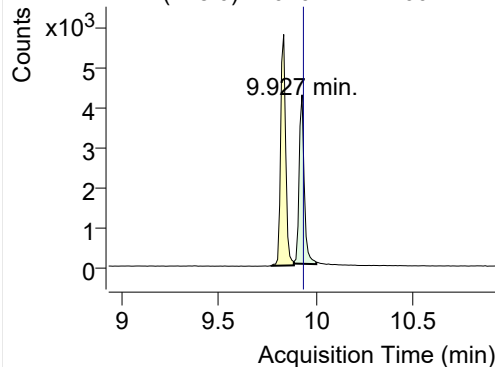


+ SIM (9.769-9.885 min, 12 scans) (**) 220707

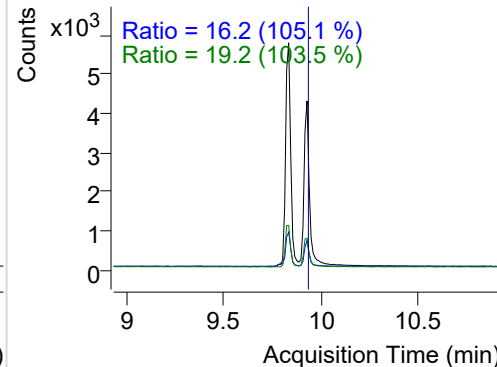


Anthracene

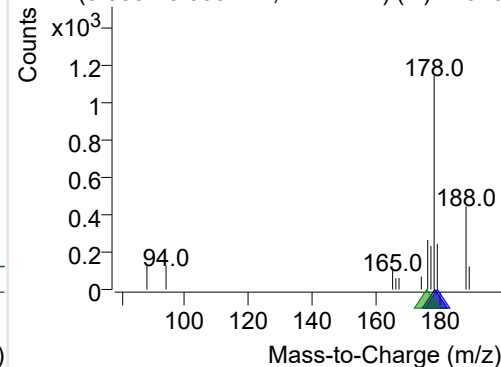
+ Selected Ion (178.0) 220707-PAHs-004.D



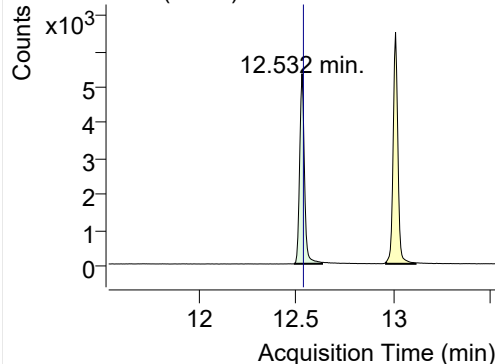
178.0, 179.0, 176.0



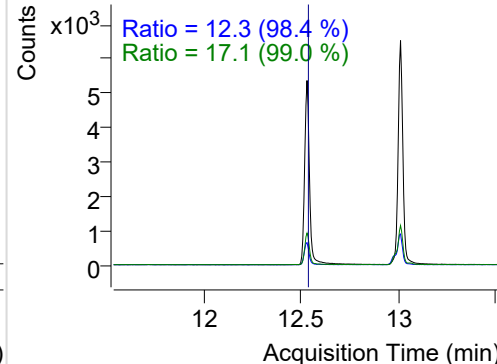
+ SIM (9.885-10.000 min, 12 scans) (**) 22070

**Fluoranthene**

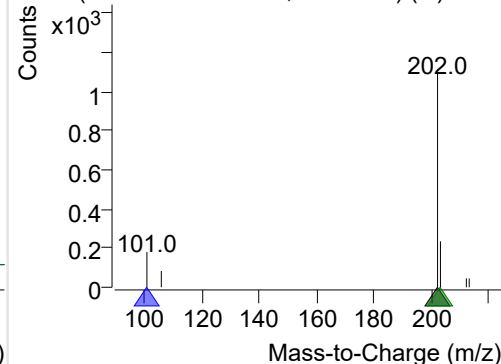
+ Selected Ion (202.0) 220707-PAHs-004.D



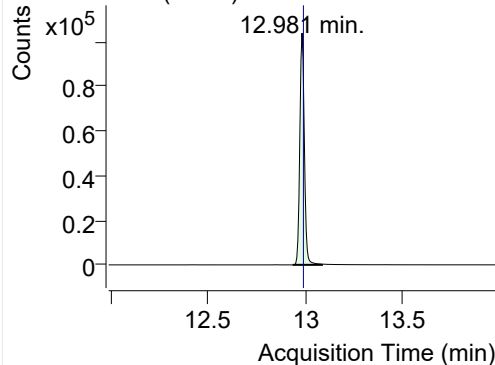
202.0, 101.0, 203.0



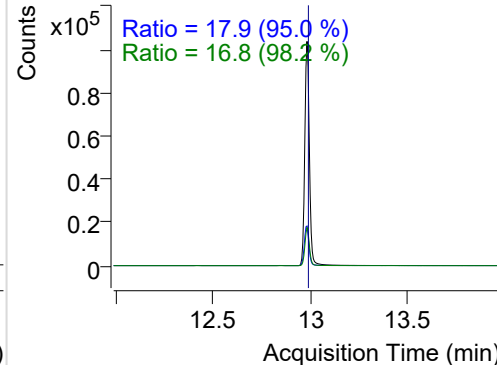
+ SIM (12.490-12.635 min, 27 scans) (**) 2207

**LSS-D10-Pyrene**

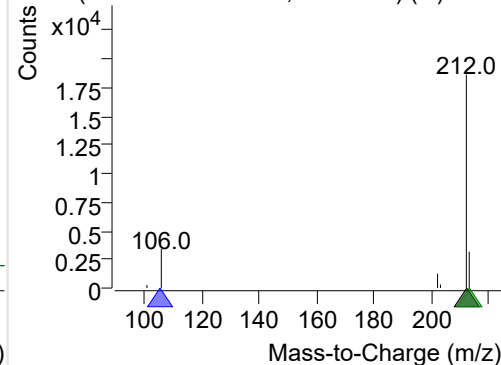
+ Selected Ion (212.0) 220707-PAHs-004.D



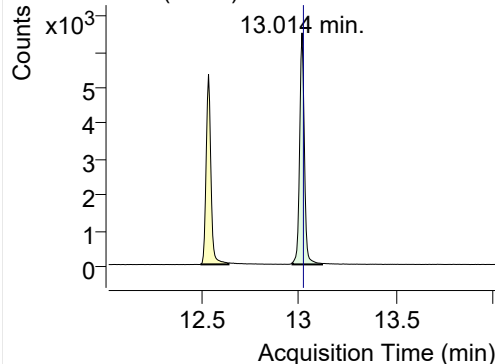
212.0, 106.0, 213.0



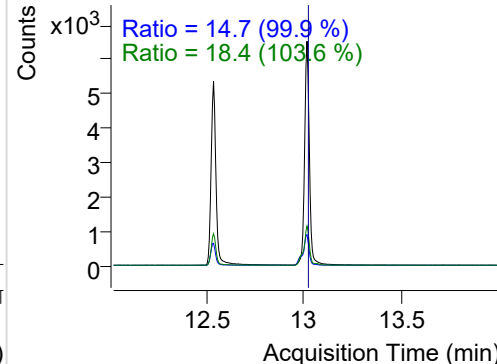
+ SIM (12.933-13.084 min, 28 scans) (**) 2207

**Pyrene**

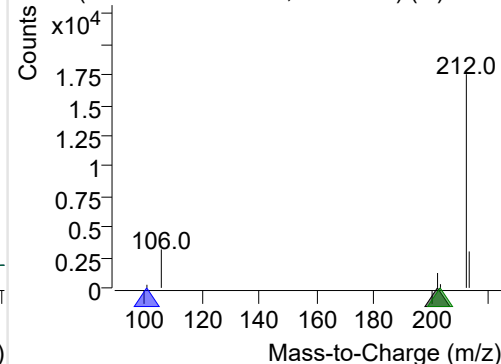
+ Selected Ion (202.0) 220707-PAHs-004.D



202.0, 101.0, 203.0

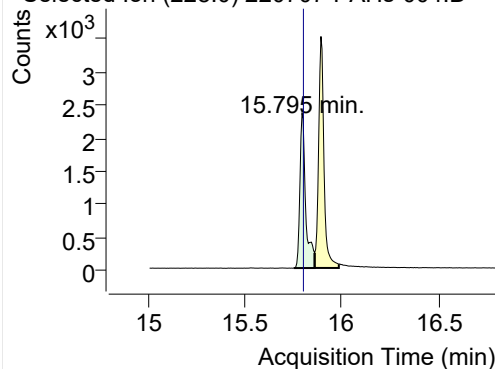


+ SIM (12.965-13.117 min, 29 scans) (**) 2207

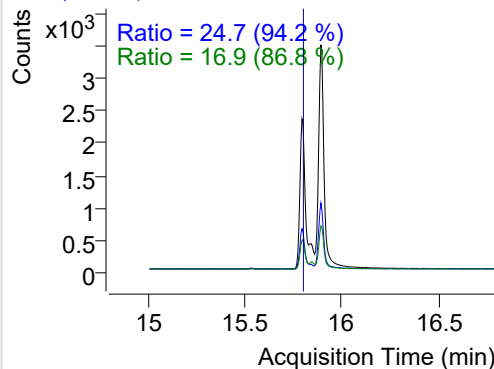


Benz(a)anthracene

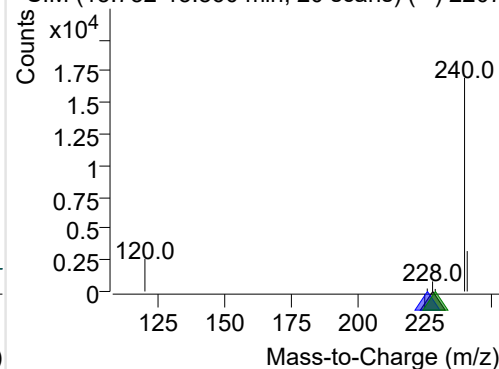
+ Selected Ion (228.0) 220707-PAHs-004.D



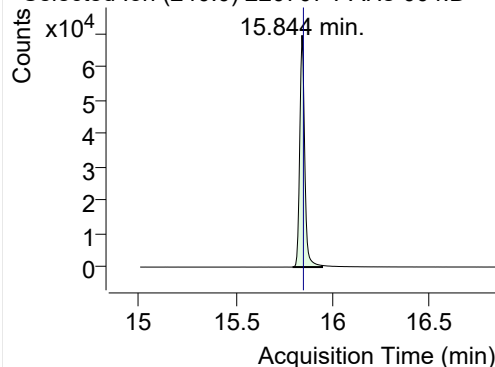
228.0, 226.0, 229.0



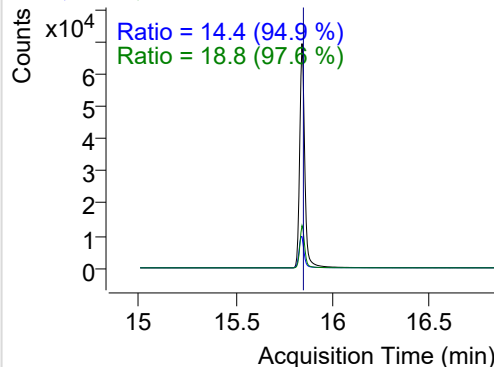
+ SIM (15.752-15.860 min, 20 scans) (**) 2207

**IS-D12-Chrysene**

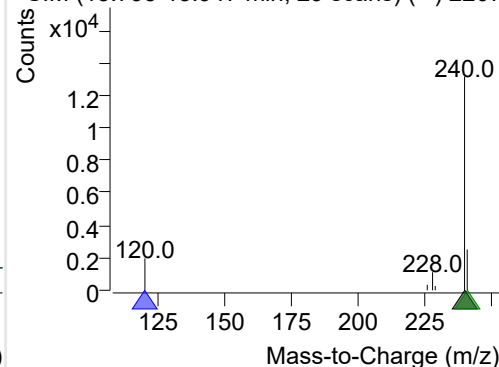
+ Selected Ion (240.0) 220707-PAHs-004.D



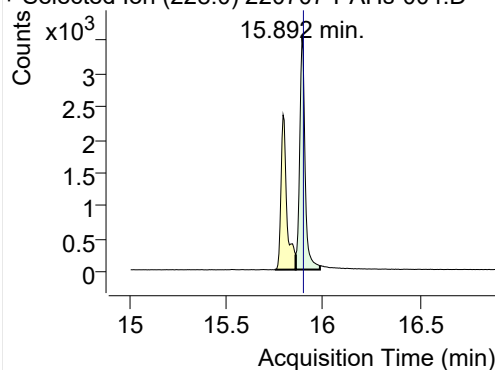
240.0, 120.0, 241.0



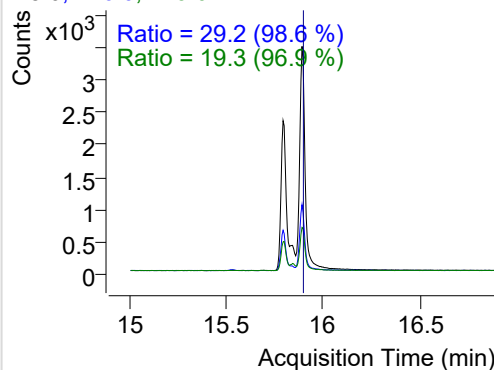
+ SIM (15.795-15.947 min, 29 scans) (**) 2207

**Chrysene**

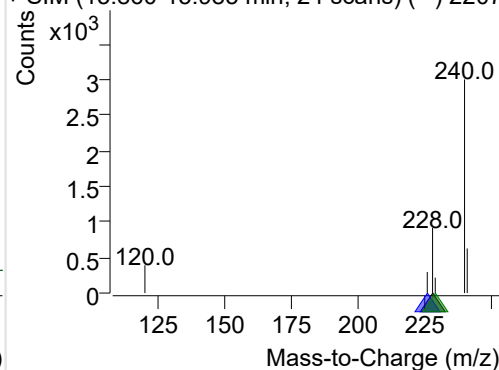
+ Selected Ion (228.0) 220707-PAHs-004.D



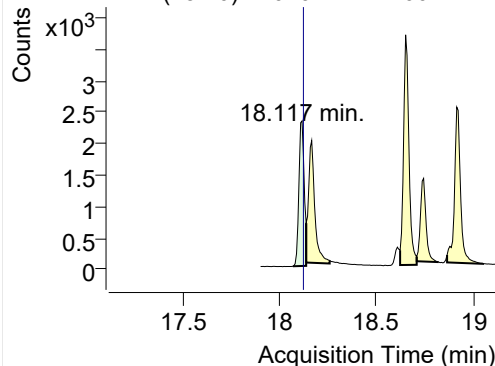
228.0, 226.0, 229.0



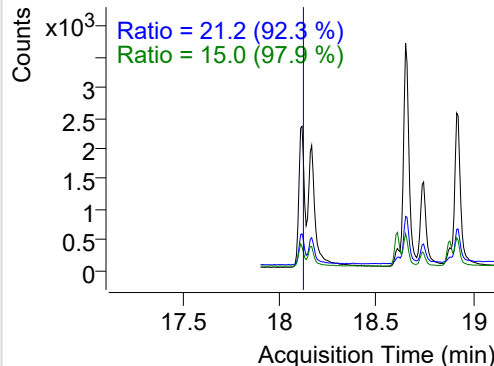
+ SIM (15.860-15.985 min, 24 scans) (**) 2207

**Benzo(b)fluoranthene**

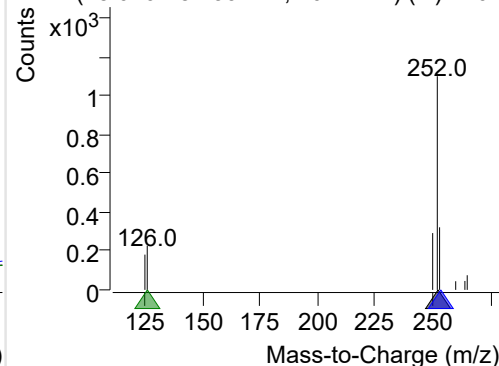
+ Selected Ion (252.0) 220707-PAHs-004.D



252.0, 253.0, 126.0

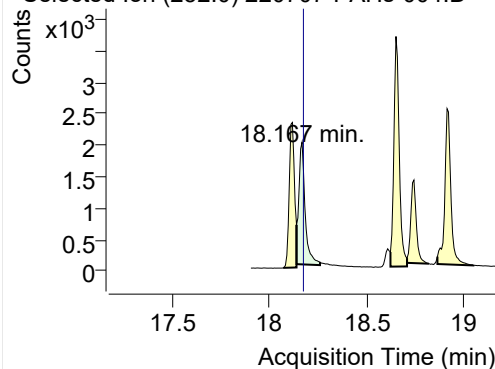


+ SIM (18.070-18.139 min, 10 scans) (**) 2207

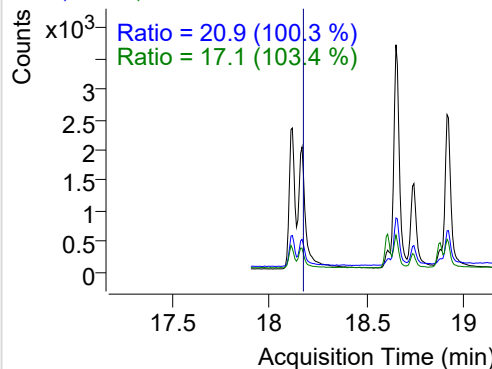


Benzo(k)fluoranthene

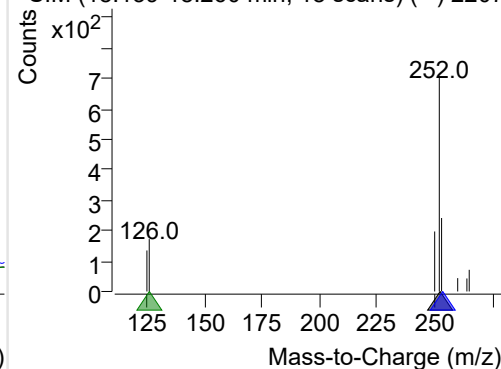
+ Selected Ion (252.0) 220707-PAHs-004.D



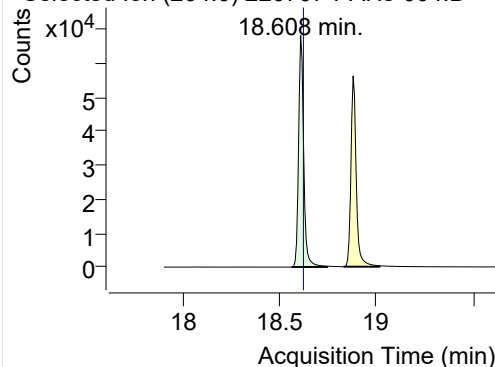
252.0, 253.0, 126.0



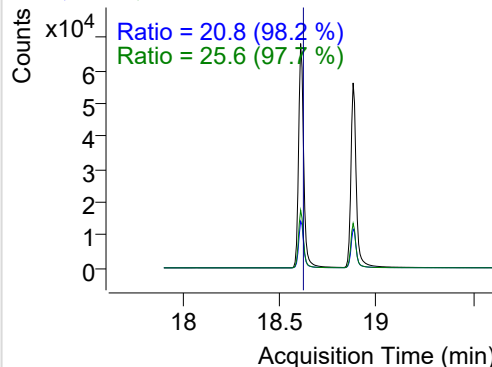
+ SIM (18.139-18.260 min, 18 scans) (**) 2207

**SS-D12-Benzo(e)pyrene**

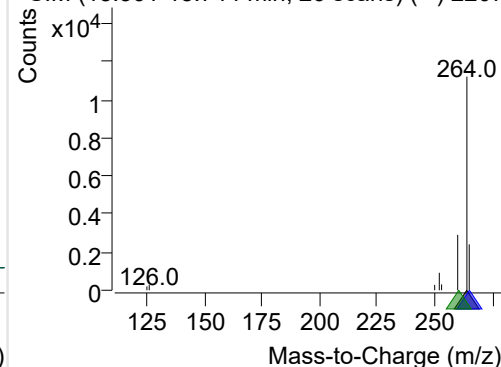
+ Selected Ion (264.0) 220707-PAHs-004.D



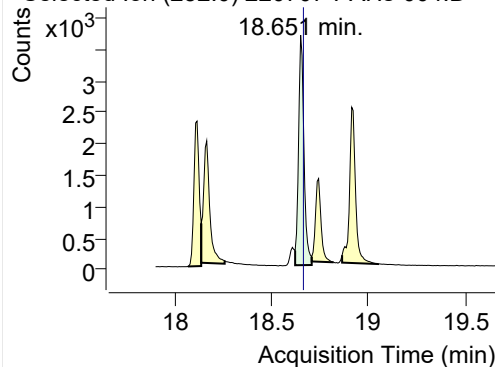
264.0, 265.0, 260.0



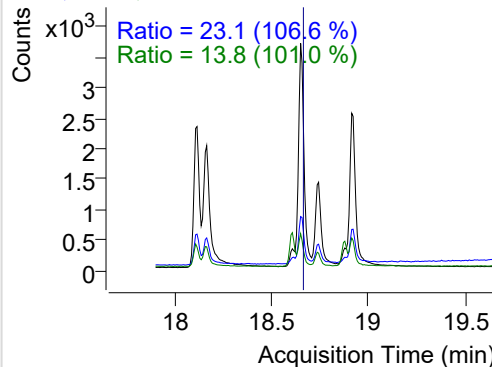
+ SIM (18.561-18.744 min, 26 scans) (**) 2207

**Benzo(e)pyrene**

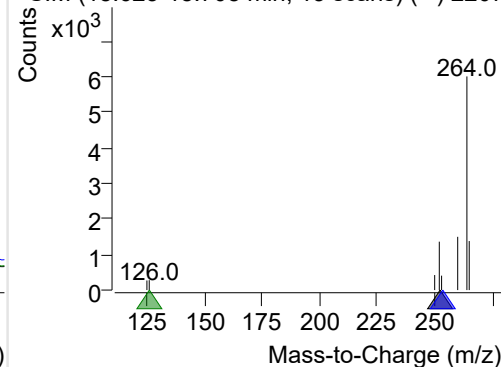
+ Selected Ion (252.0) 220707-PAHs-004.D



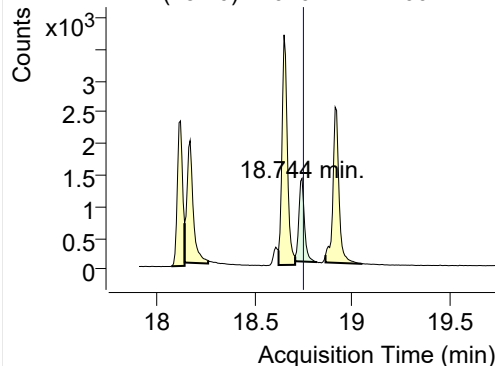
252.0, 253.0, 126.0



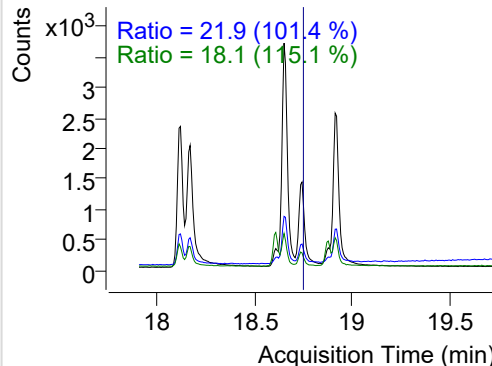
+ SIM (18.623-18.708 min, 13 scans) (**) 2207

**Benzo(a)pyrene**

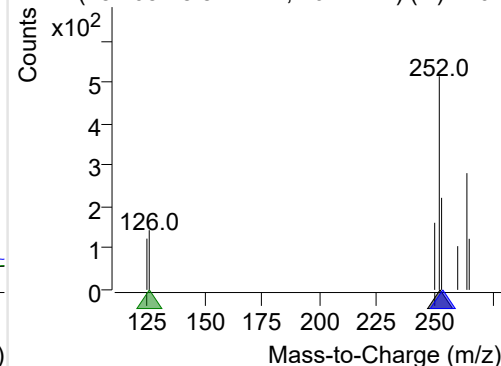
+ Selected Ion (252.0) 220707-PAHs-004.D



252.0, 253.0, 126.0

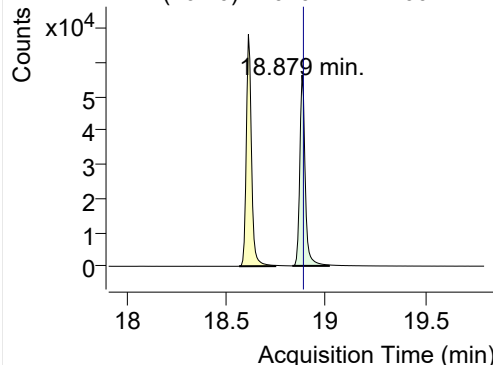


+ SIM (18.708-18.821 min, 16 scans) (**) 2207

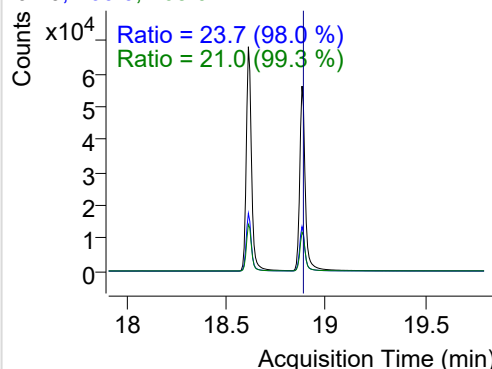


IS-D12-Perylene

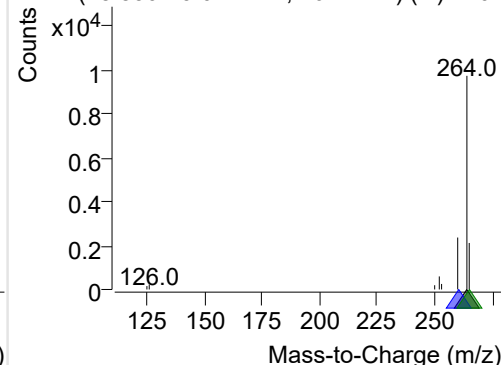
+ Selected Ion (264.0) 220707-PAHs-004.D



264.0, 260.0, 265.0

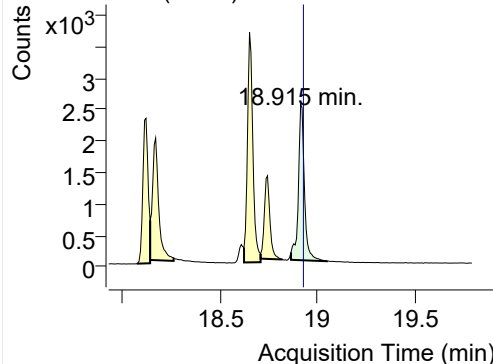


+ SIM (18.830-19.014 min, 26 scans) (**) 2207

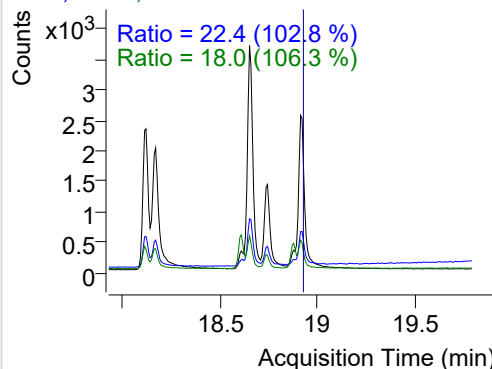


Perylene

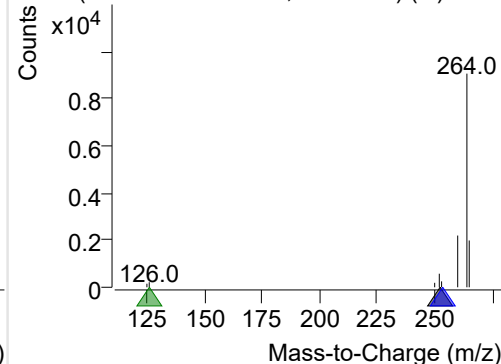
+ Selected Ion (252.0) 220707-PAHs-004.D



252.0, 253.0, 126.0

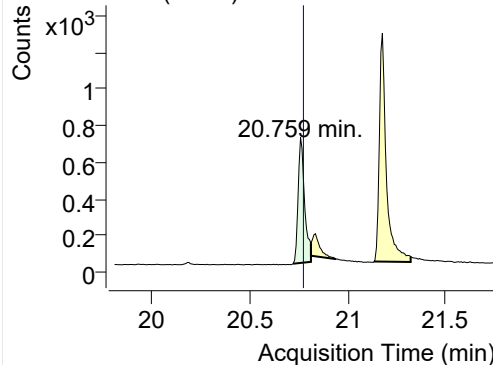


+ SIM (18.865-19.050 min, 27 scans) (**) 2207

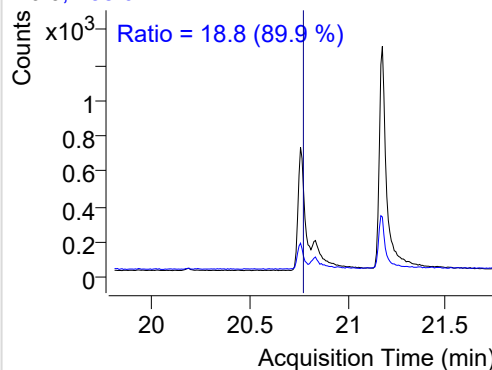


Indeno(1,2,3-c,d)pyrene

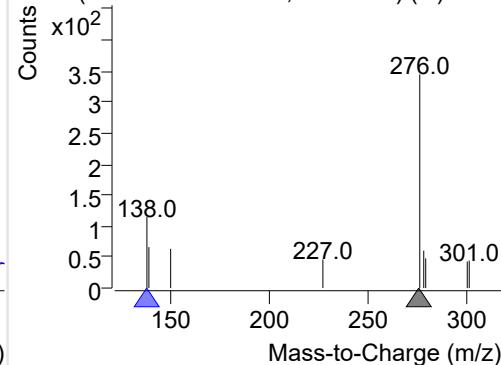
+ Selected Ion (276.0) 220707-PAHs-004.D



276.0, 138.0

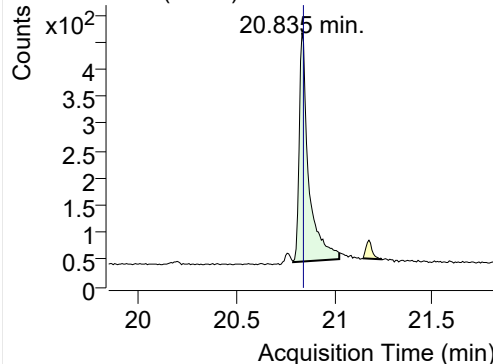


+ SIM (20.721-20.812 min, 12 scans) (**) 2207

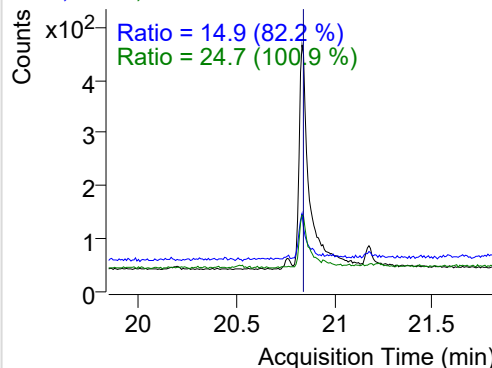


Dibenz(a,h)anthracene

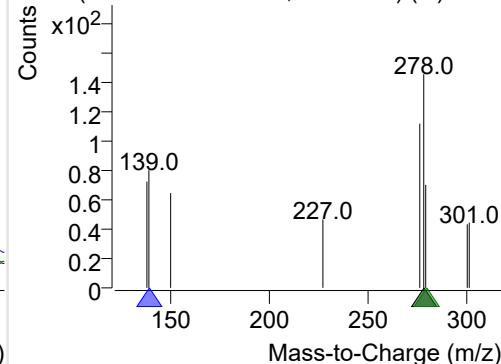
+ Selected Ion (278.0) 220707-PAHs-004.D



278.0, 139.0, 279.0

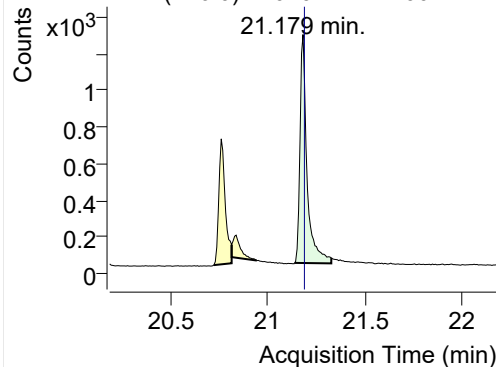


+ SIM (20.789-21.026 min, 32 scans) (**) 2207

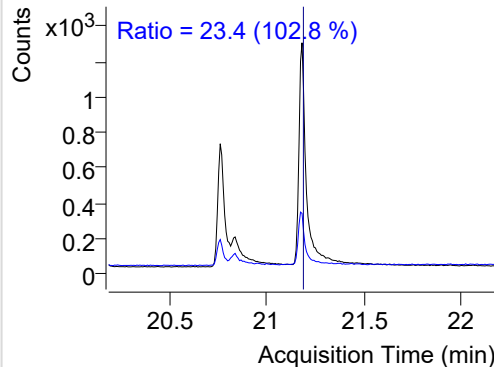


Benzo(g,h,i)perylene

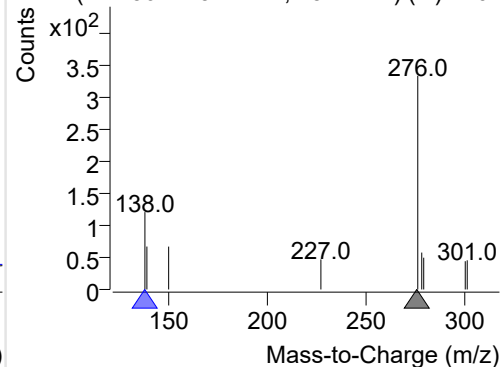
+ Selected Ion (276.0) 220707-PAHs-004.D



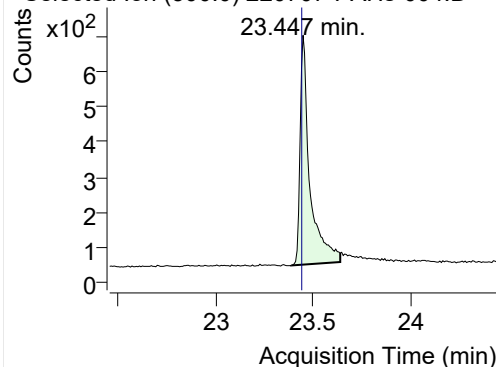
276.0, 138.0



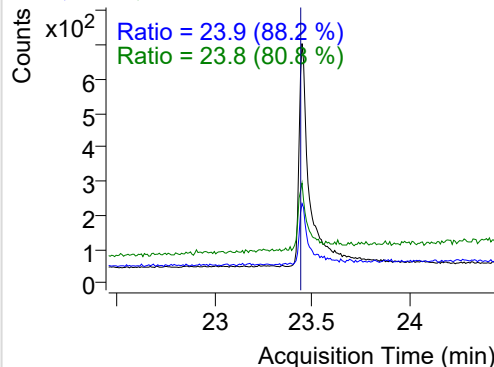
+ SIM (21.136-21.324 min, 25 scans) (**) 2207

**Coronene**

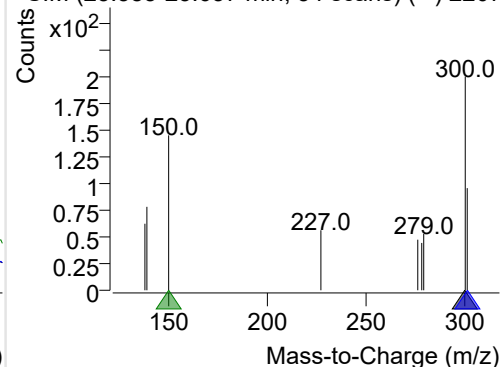
+ Selected Ion (300.0) 220707-PAHs-004.D



300.0, 301.0, 150.0



+ SIM (23.385-23.637 min, 34 scans) (**) 2207



Quantitative Analysis Sample Based Report

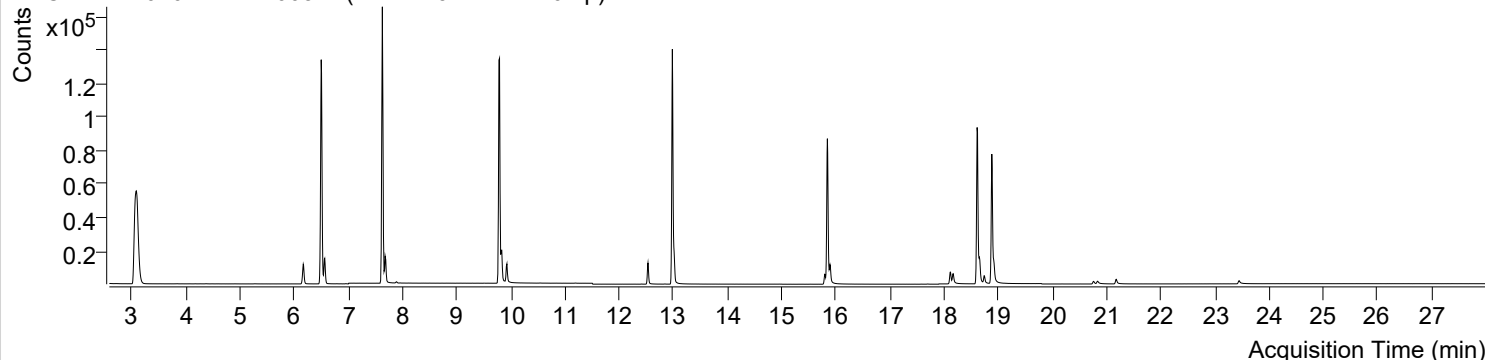


Trusted Answers

| | | | |
|---------------------------|--|-----------------------|------------------------|
| Batch Data Path File Name | D:\MassHunter\GCMS\1\data\PAHs\220707-PAHs-Sample\QuantResults\220707-PAHs-Quant.batch.bin | | |
| Analysis Time Stamp | 2022-07-09 오전 11:12:52 | Analyst Name | DESKTOP-86B7UPG\5975MS |
| Report Generation Time | 2022-07-09 오전 11:13:20 | Report Generator Name | DESKTOP-86B7UPG\5975MS |
| Calibration Last Update | 2022-07-09 오전 11:04:15 | Batch State | Processed |
| Analyze Quant Version | 10.2 | Report Quant Version | 10.2 |
| Acq. Date-Time | 2022-07-07 오후 3:23:31 | Data File | 220707-PAHs-005.D |
| Type | Sample | Name | PAHs-19mix-STD-0.1p |
| Dil. | 1 | Acq. Method File | PAHs 19mix-Method |

Sample Chromatogram

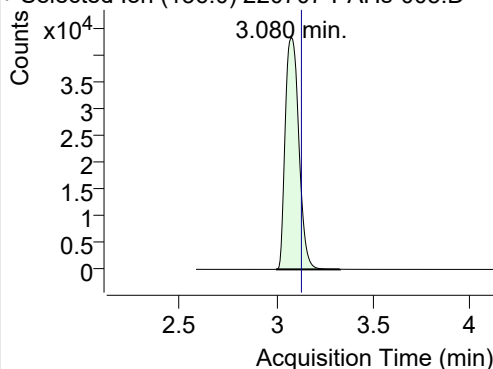
+ TIC SIM 220707-PAHs-005.D (PAHs-19mix-STD-0.1p)



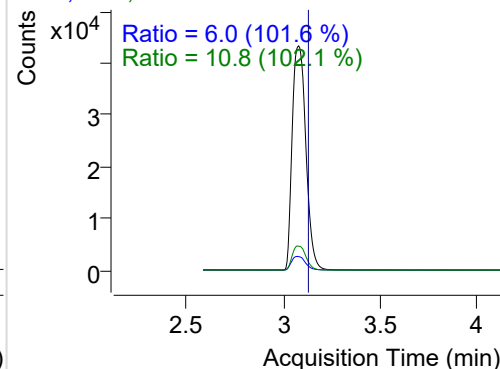
| Name | RT | Transition | Resp. | Height | Final Conc. Units | Ratio |
|-------------------------|--------|------------|--------|----------|-------------------|-------|
| IS-D8-Naphthalene | 3.080 | 136.0 | 211811 | 43277.74 | ND ng/ml | 10.8 |
| Naphthalene | 3.101 | 128.0 | 23241 | 4797.45 | ND ng/ml | 12.7 |
| Acenaphthylene | 6.167 | 152.0 | 17501 | 8771.92 | ND ng/ml | 19.4 |
| IS-D10-Acenaphthene | 6.499 | 164.0 | 116954 | 63707.71 | ND ng/ml | 96.1 |
| Acenaphthene | 6.564 | 154.0 | 10003 | 5355.53 | ND ng/ml | 107.1 |
| LSS-D10-Fluorene | 7.627 | 176.0 | 122243 | 75104.70 | ND ng/ml | 92.3 |
| Fluorene | 7.680 | 166.0 | 12667 | 6972.88 | ND ng/ml | 92.2 |
| IS-D10-Phenanthrene | 9.790 | 188.0 | 196317 | 109611.0 | ND ng/ml | 15.0 |
| Phenanthrene | 9.832 | 178.0 | 19310 | 11253.19 | ND ng/ml | 19.1 |
| Anthracene | 9.927 | 178.0 | 13767 | 7500.53 | ND ng/ml | 18.8 |
| Fluoranthene | 12.532 | 202.0 | 16411 | 9808.32 | ND ng/ml | 17.1 |
| LSS-D10-Pyrene | 12.981 | 212.0 | 159943 | 103562.6 | ND ng/ml | 18.1 |
| Pyrene | 13.014 | 202.0 | 19785 | 11560.45 | ND ng/ml | 19.6 |
| Benz(a)anthracene | 15.795 | 228.0 | 8344 | 4060.24 | ND ng/ml | 25.6 |
| IS-D12-Chrysene | 15.844 | 240.0 | 118130 | 64655.03 | ND ng/ml | 18.9 |
| Chrysene | 15.892 | 228.0 | 12265 | 6276.63 | ND ng/ml | 29.3 |
| Benzo(b)fluoranthene | 18.117 | 252.0 | 7729 | 4128.02 | ND ng/ml | 21.5 |
| Benzo(k)fluoranthene | 18.167 | 252.0 | 8369 | 3494.52 | ND ng/ml | 21.0 |
| SS-D12-Benzo(e)pyrene | 18.608 | 264.0 | 118560 | 62806.57 | ND ng/ml | 25.6 |
| Benzo(e)pyrene | 18.651 | 252.0 | 13035 | 6323.59 | ND ng/ml | 22.6 |
| Benzo(a)pyrene | 18.744 | 252.0 | 4344 | 2360.00 | ND ng/ml | 25.8 |
| IS-D12-Perylene | 18.879 | 264.0 | 96933 | 52420.50 | ND ng/ml | 24.1 |
| Perylene | 18.922 | 252.0 | 9439 | 4410.50 | ND ng/ml | 23.1 |
| Indeno(1,2,3-c,d)pyrene | 20.759 | 276.0 | 2773 | 1227.96 | ND ng/ml | 21.2 |
| Dibenz(a,h)anthracene | 20.835 | 278.0 | 2561 | 847.88 | ND ng/ml | 23.0 |
| Benzo(g,h,i)perylene | 21.179 | 276.0 | 5317 | 2173.26 | ND ng/ml | 24.3 |
| Coronene | 23.447 | 300.0 | 3903 | 1213.25 | ND ng/ml | 26.9 |

IS-D8-Naphthalene

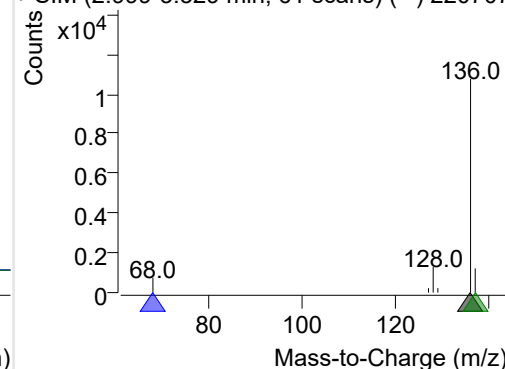
+ Selected Ion (136.0) 220707-PAHs-005.D



136.0, 68.0, 137.0

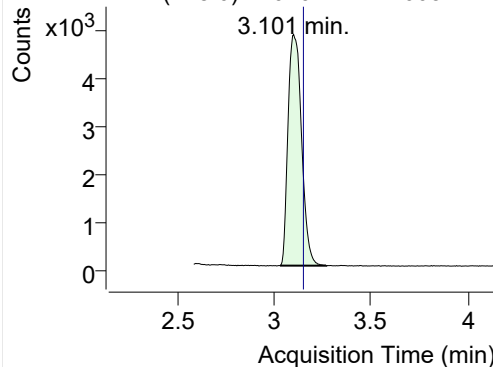


+ SIM (2.999-3.329 min, 61 scans) (**) 220707

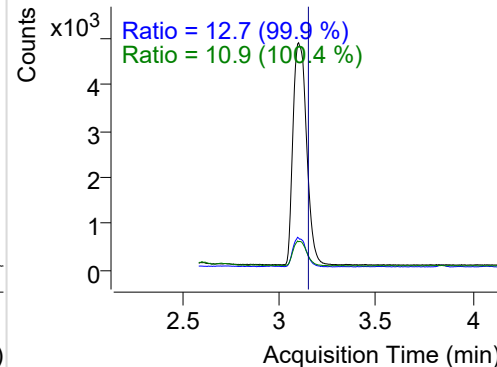


Naphthalene

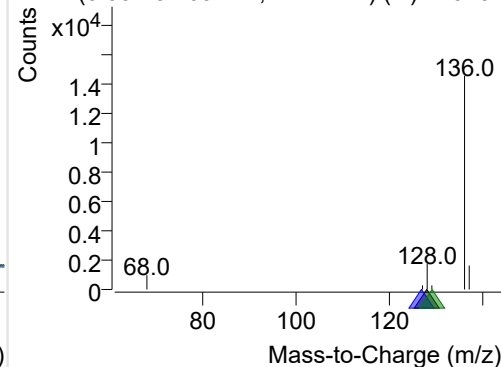
+ Selected Ion (128.0) 220707-PAHs-005.D



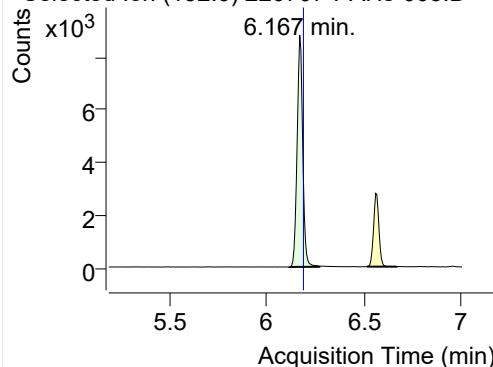
128.0, 127.0, 129.0



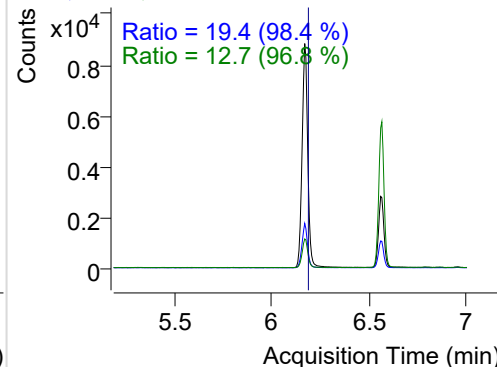
+ SIM (3.031-3.269 min, 44 scans) (**) 220707

**Acenaphthylene**

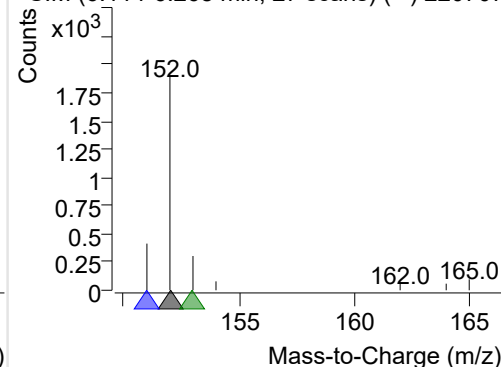
+ Selected Ion (152.0) 220707-PAHs-005.D



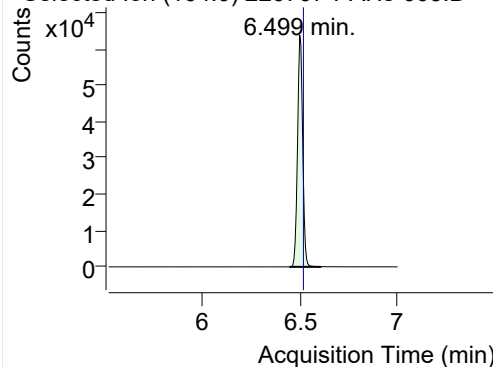
152.0, 151.0, 153.0



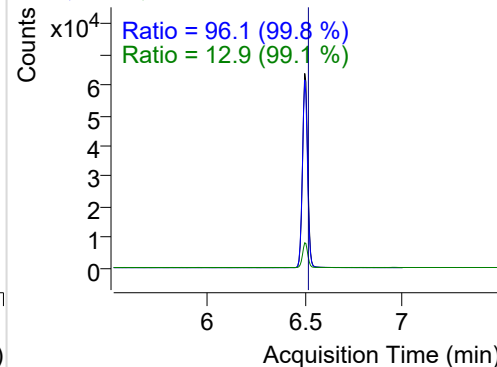
+ SIM (6.114-6.268 min, 27 scans) (**) 220707

**IS-D10-Acenaphthene**

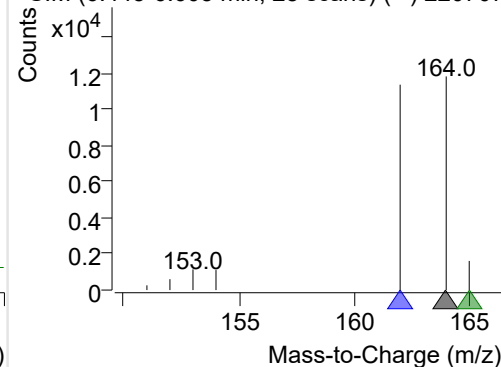
+ Selected Ion (164.0) 220707-PAHs-005.D



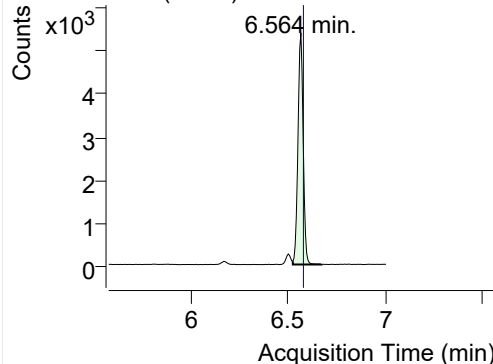
164.0, 162.0, 165.0



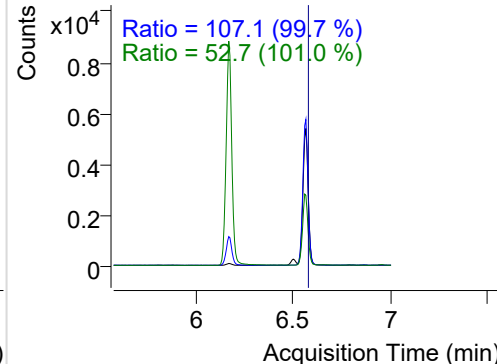
+ SIM (6.445-6.605 min, 28 scans) (**) 220707

**Acenaphthene**

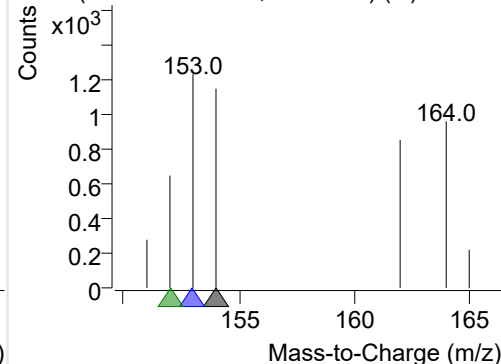
+ Selected Ion (154.0) 220707-PAHs-005.D



154.0, 153.0, 152.0

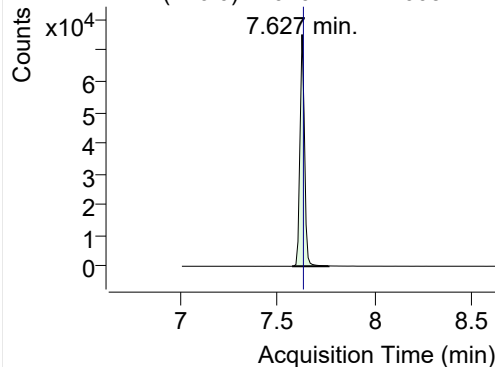


+ SIM (6.522-6.670 min, 26 scans) (**) 220707

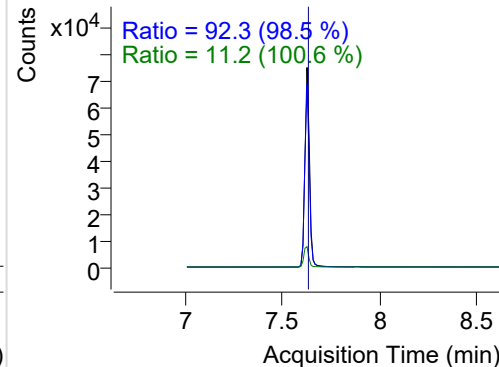


LSS-D10-Fluorene

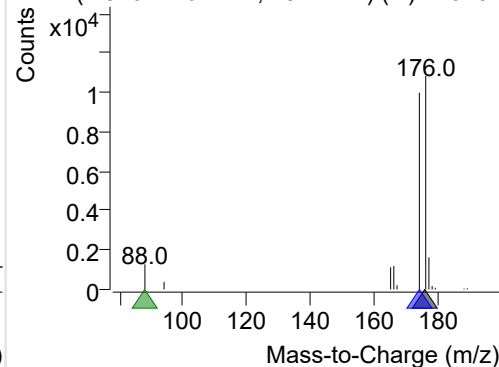
+ Selected Ion (176.0) 220707-PAHs-005.D



176.0, 174.0, 88.0

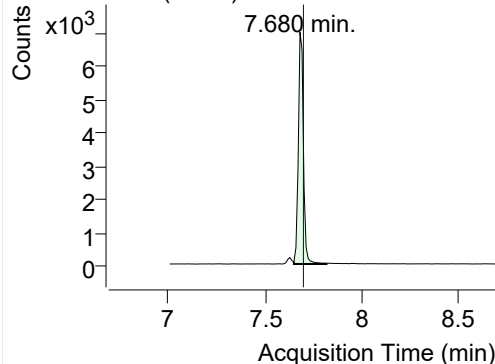


+ SIM (7.576-7.764 min, 18 scans) (**) 220707

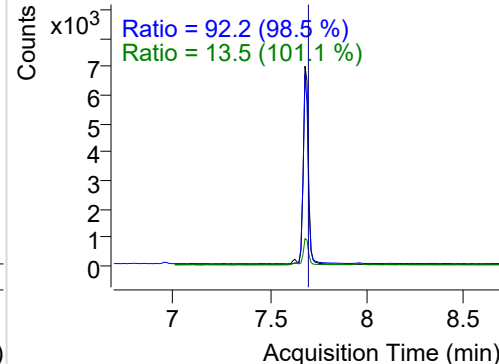


Fluorene

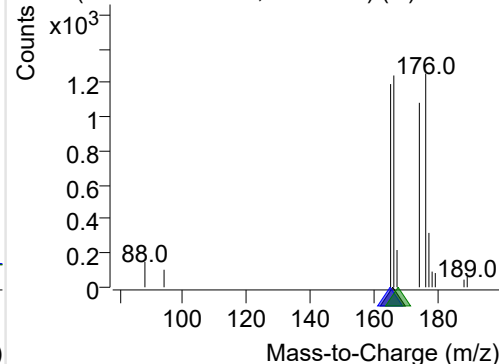
+ Selected Ion (166.0) 220707-PAHs-005.D



166.0, 165.0, 167.0

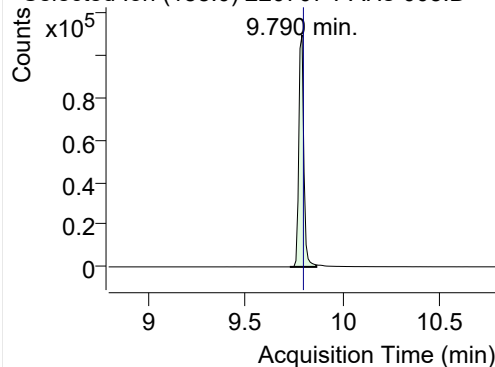


+ SIM (7.648-7.816 min, 17 scans) (**) 220707

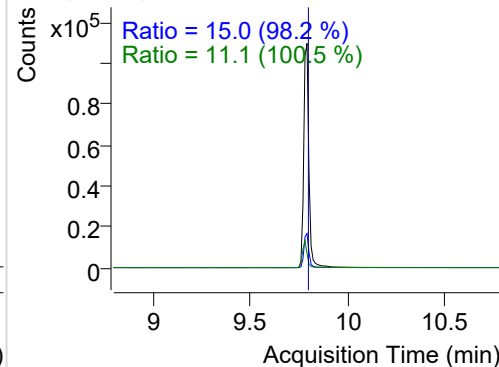


IS-D10-Phenanthrene

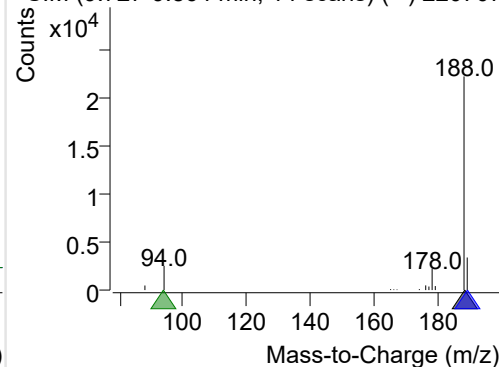
+ Selected Ion (188.0) 220707-PAHs-005.D



188.0, 189.0, 94.0

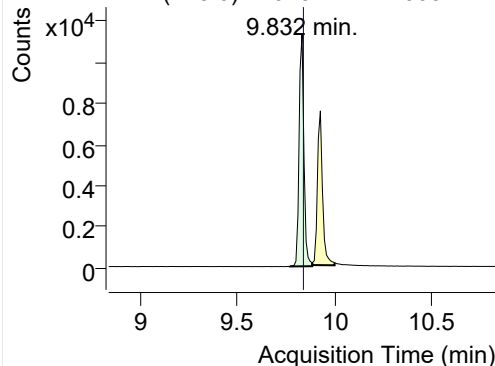


+ SIM (9.727-9.864 min, 14 scans) (**) 220707

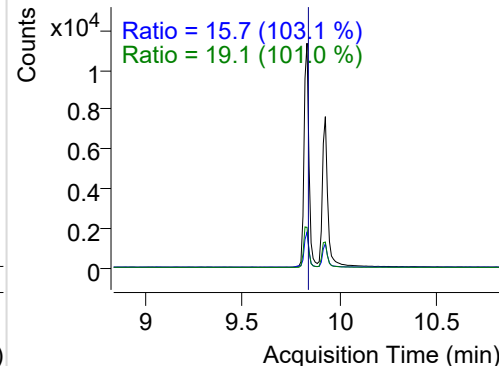


Phenanthrene

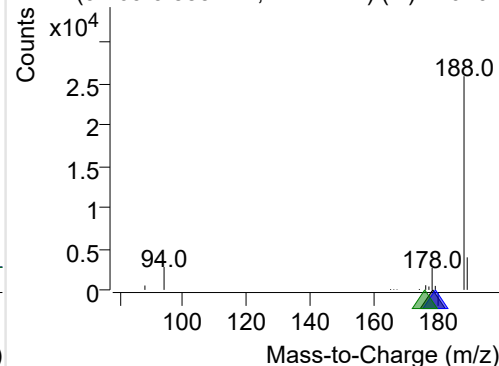
+ Selected Ion (178.0) 220707-PAHs-005.D



178.0, 179.0, 176.0

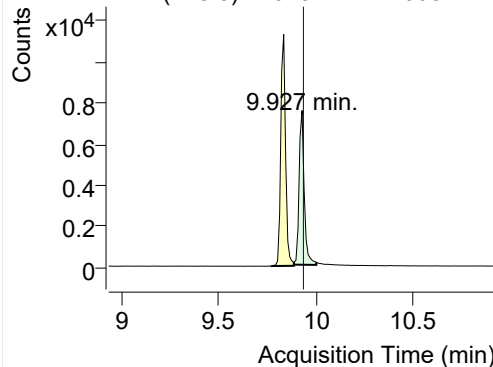


+ SIM (9.769-9.885 min, 12 scans) (**) 220707

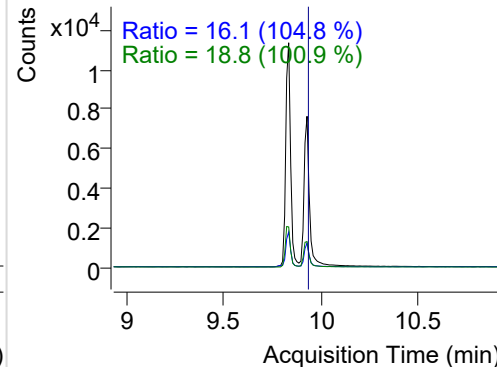


Anthracene

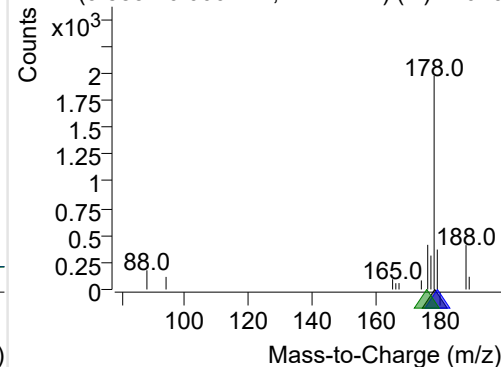
+ Selected Ion (178.0) 220707-PAHs-005.D



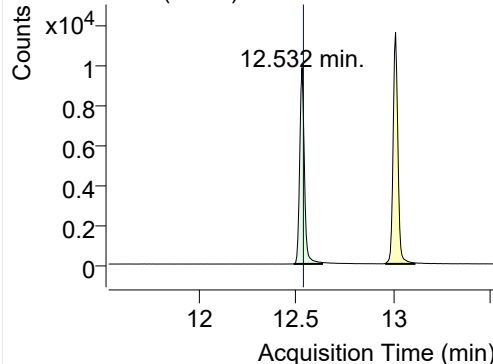
178.0, 179.0, 176.0



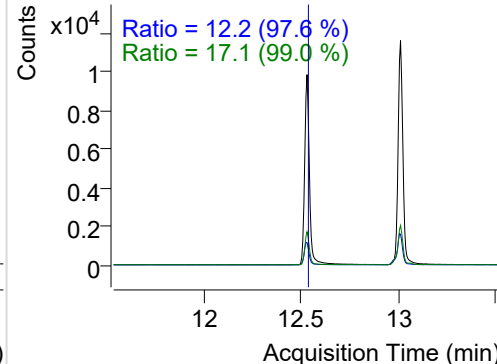
+ SIM (9.885-10.000 min, 12 scans) (**) 22070

**Fluoranthene**

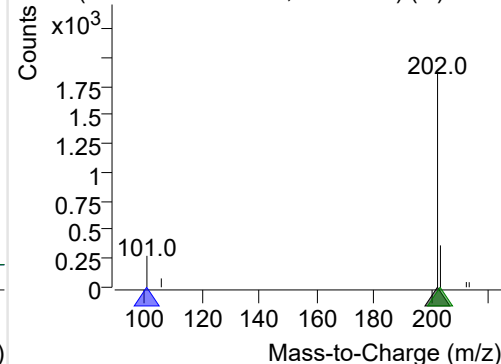
+ Selected Ion (202.0) 220707-PAHs-005.D



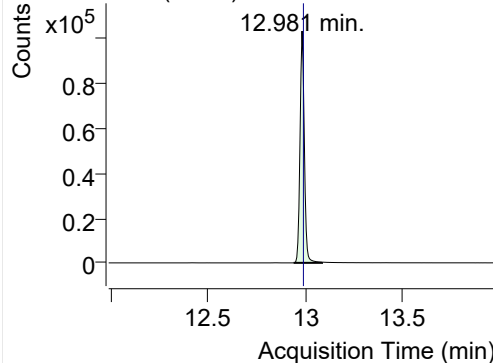
202.0, 101.0, 203.0



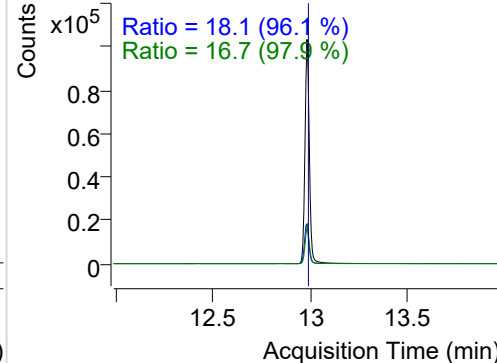
+ SIM (12.488-12.635 min, 28 scans) (**) 2207

**LSS-D10-Pyrene**

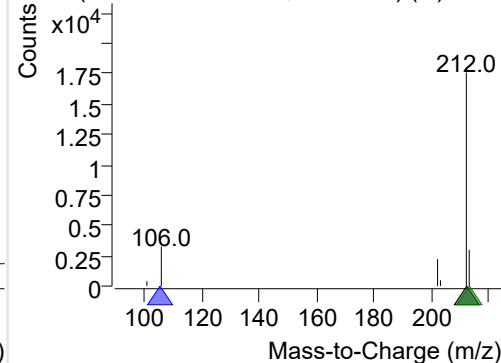
+ Selected Ion (212.0) 220707-PAHs-005.D



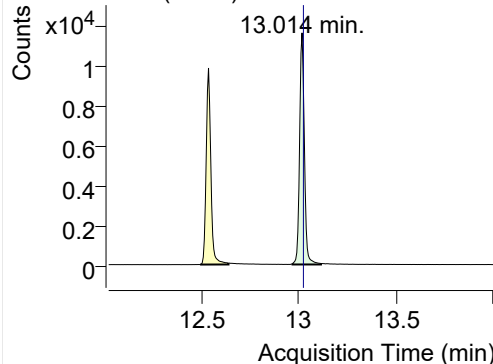
212.0, 106.0, 213.0



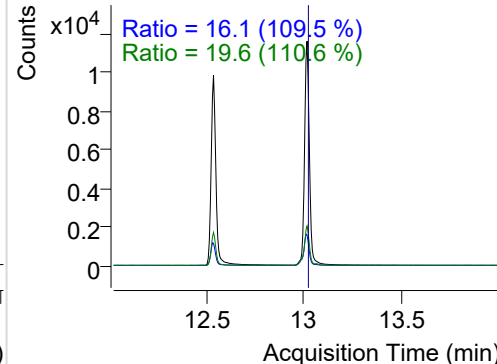
+ SIM (12.938-13.084 min, 28 scans) (**) 2207

**Pyrene**

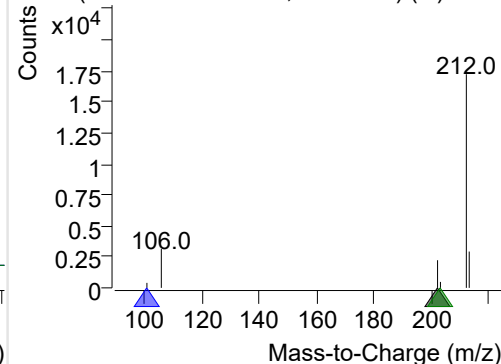
+ Selected Ion (202.0) 220707-PAHs-005.D



202.0, 101.0, 203.0

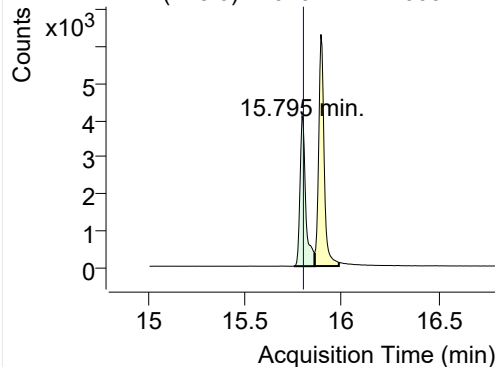


+ SIM (12.965-13.112 min, 28 scans) (**) 2207

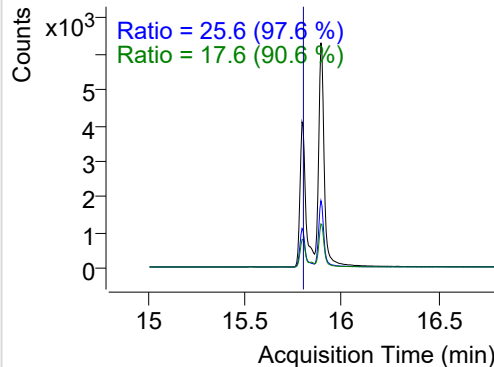


Benz(a)anthracene

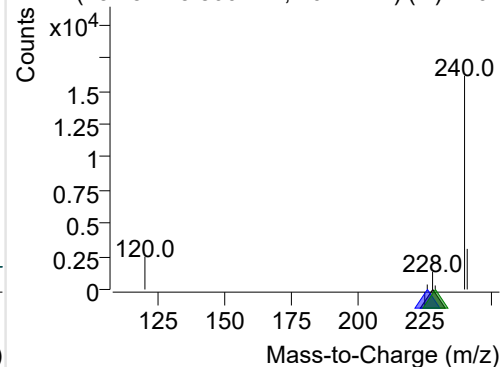
+ Selected Ion (228.0) 220707-PAHs-005.D



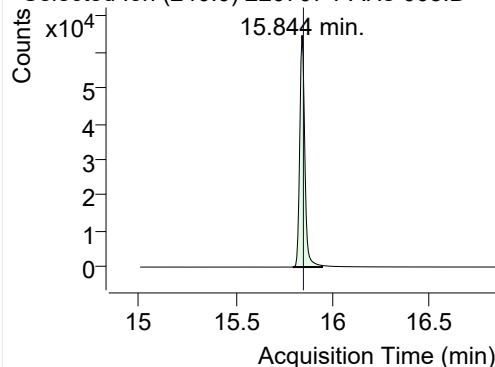
228.0, 226.0, 229.0



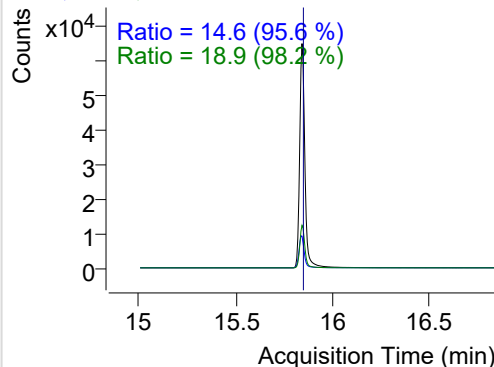
+ SIM (15.752-15.860 min, 20 scans) (**) 2207

**IS-D12-Chrysene**

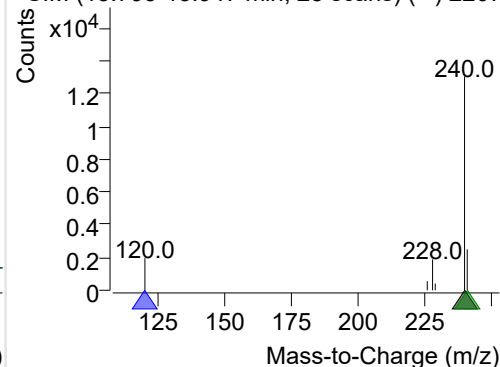
+ Selected Ion (240.0) 220707-PAHs-005.D



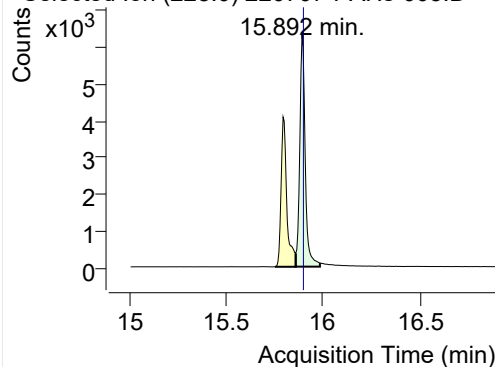
240.0, 120.0, 241.0



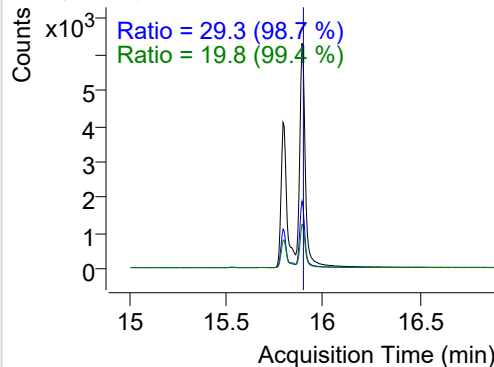
+ SIM (15.795-15.947 min, 28 scans) (**) 2207

**Chrysene**

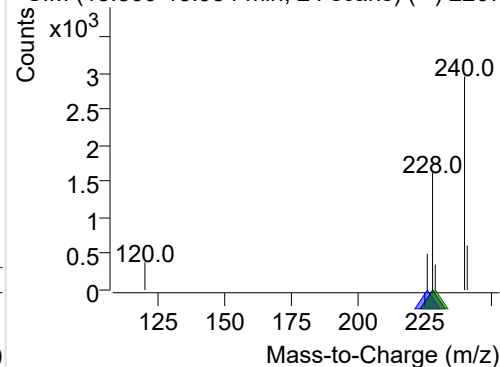
+ Selected Ion (228.0) 220707-PAHs-005.D



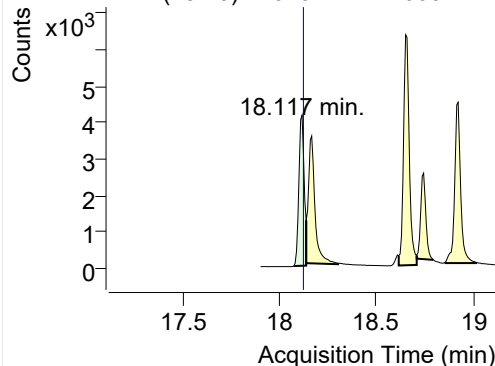
228.0, 226.0, 229.0



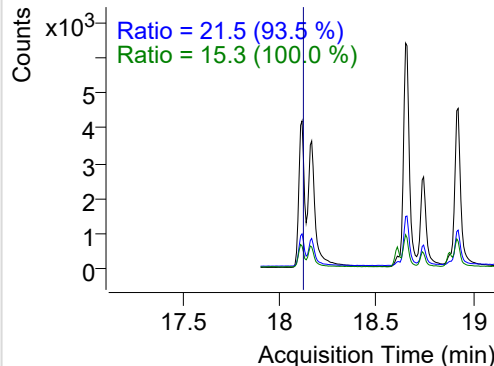
+ SIM (15.860-15.984 min, 24 scans) (**) 2207

**Benzo(b)fluoranthene**

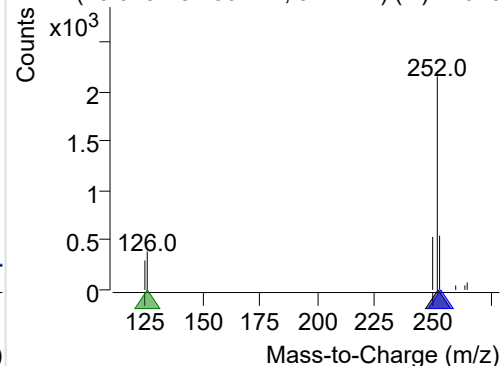
+ Selected Ion (252.0) 220707-PAHs-005.D



252.0, 253.0, 126.0

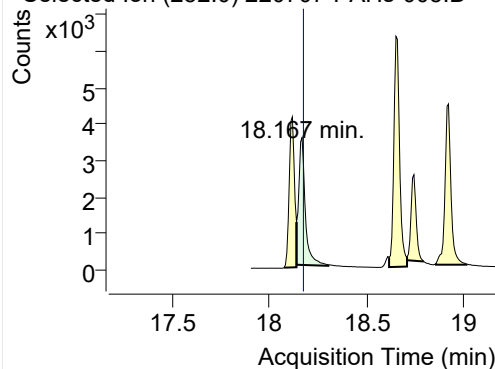


+ SIM (18.075-18.139 min, 9 scans) (**) 22070

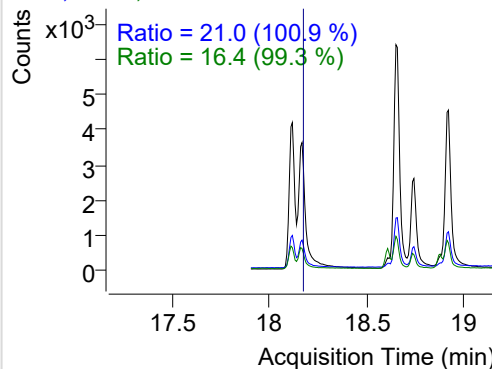


Benzo(k)fluoranthene

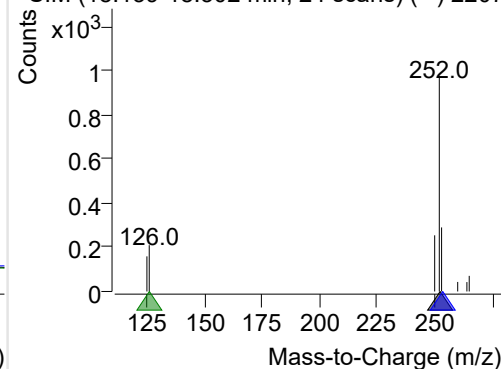
+ Selected Ion (252.0) 220707-PAHs-005.D



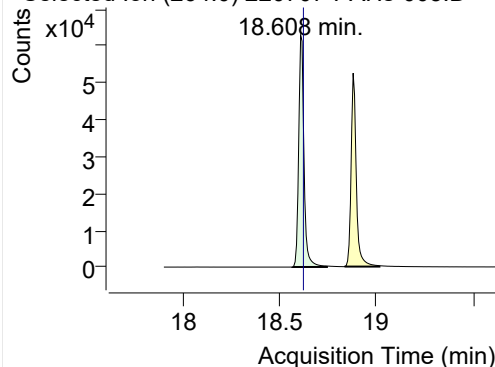
252.0, 253.0, 126.0



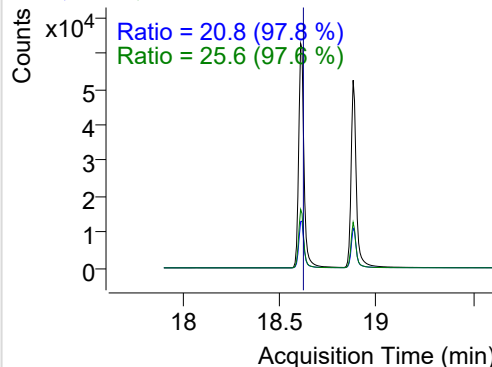
+ SIM (18.139-18.302 min, 24 scans) (**) 2207

**SS-D12-Benzo(e)pyrene**

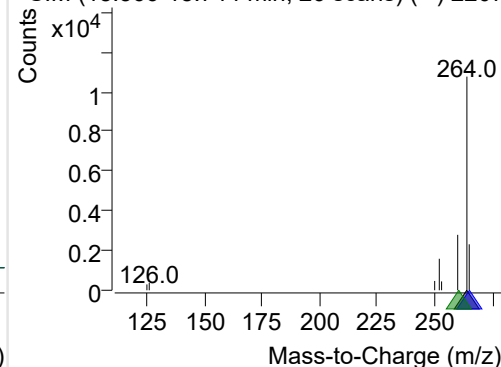
+ Selected Ion (264.0) 220707-PAHs-005.D



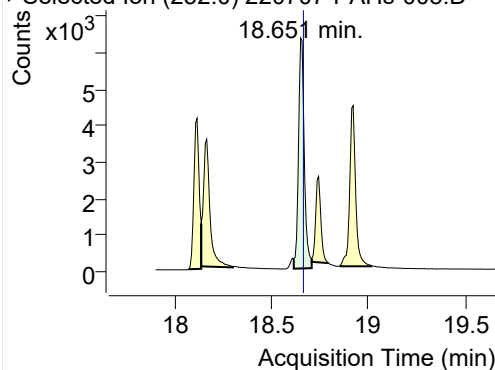
264.0, 265.0, 260.0



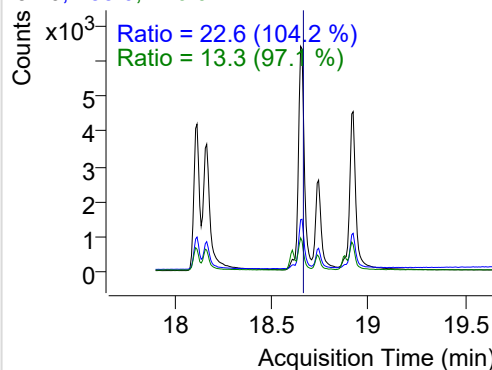
+ SIM (18.566-18.744 min, 26 scans) (**) 2207

**Benzo(e)pyrene**

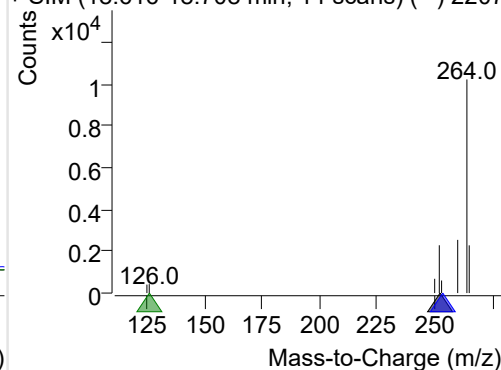
+ Selected Ion (252.0) 220707-PAHs-005.D



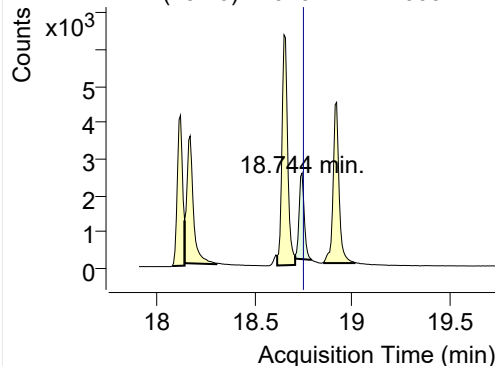
252.0, 253.0, 126.0



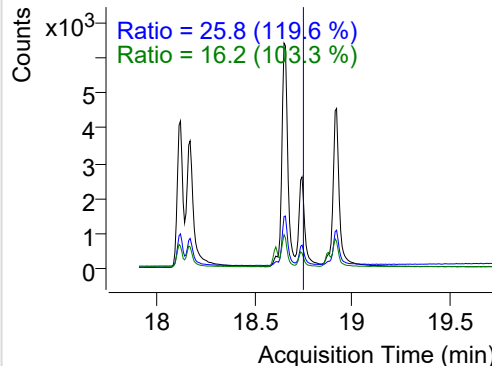
+ SIM (18.616-18.708 min, 14 scans) (**) 2207

**Benzo(a)pyrene**

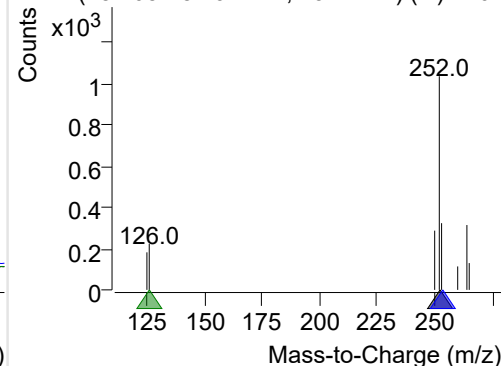
+ Selected Ion (252.0) 220707-PAHs-005.D



252.0, 253.0, 126.0

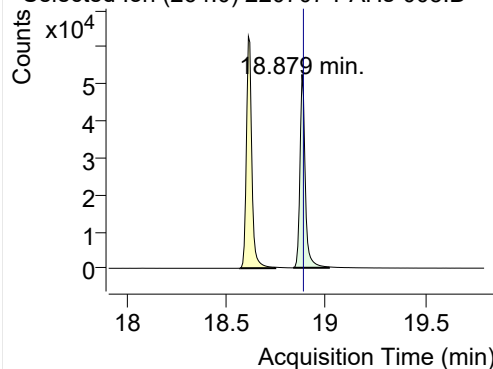


+ SIM (18.708-18.794 min, 13 scans) (**) 2207

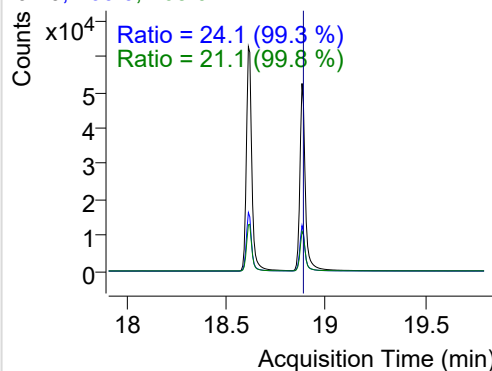


IS-D12-Perylene

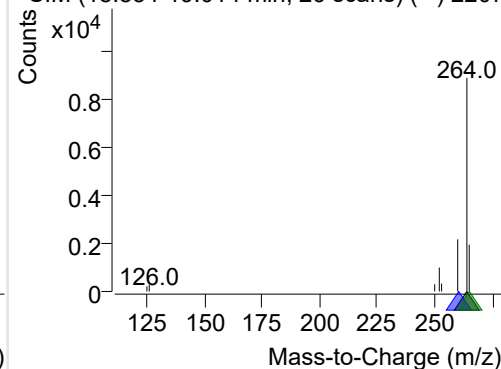
+ Selected Ion (264.0) 220707-PAHs-005.D



264.0, 260.0, 265.0

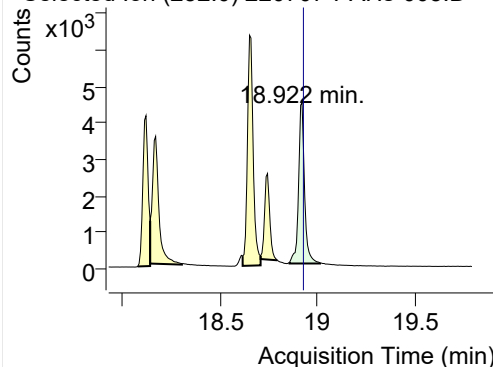


+ SIM (18.834-19.014 min, 26 scans) (**) 2207

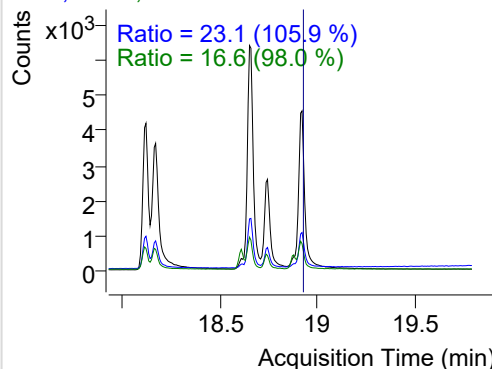


Perylene

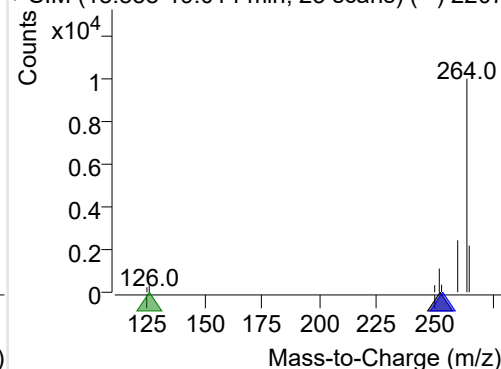
+ Selected Ion (252.0) 220707-PAHs-005.D



252.0, 253.0, 126.0

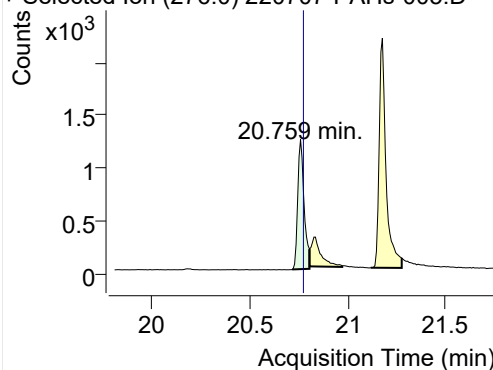


+ SIM (18.858-19.014 min, 23 scans) (**) 2207

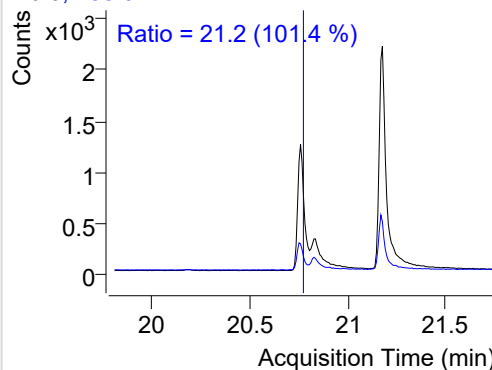


Indeno(1,2,3-c,d)pyrene

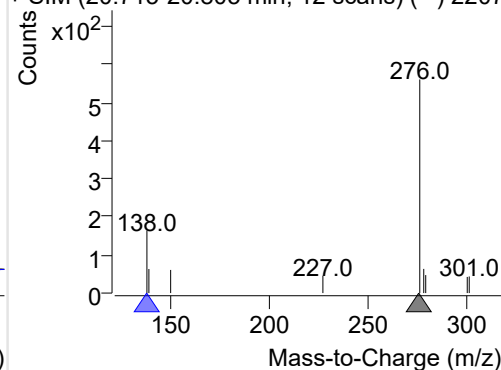
+ Selected Ion (276.0) 220707-PAHs-005.D



276.0, 138.0

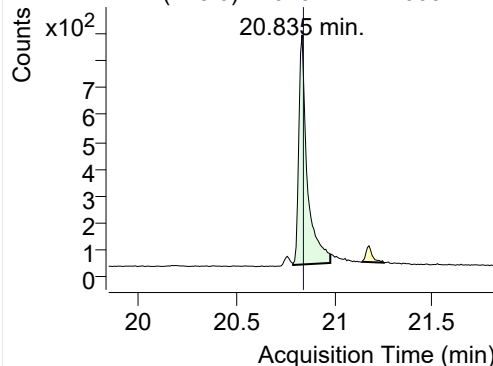


+ SIM (20.715-20.805 min, 12 scans) (**) 2207

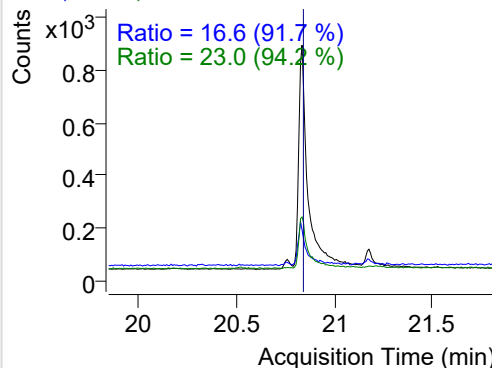


Dibenz(a,h)anthracene

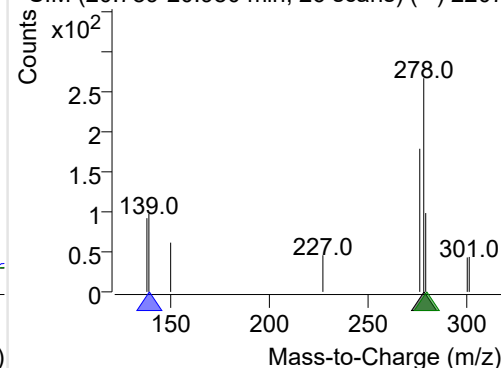
+ Selected Ion (278.0) 220707-PAHs-005.D



278.0, 139.0, 279.0

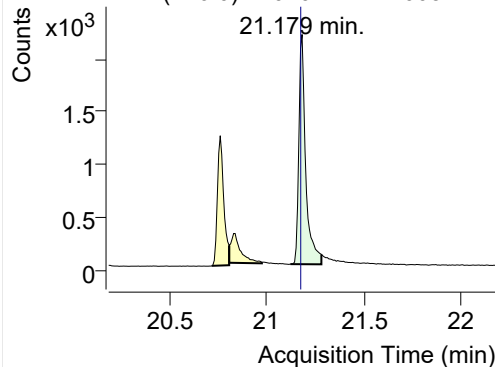


+ SIM (20.789-20.980 min, 26 scans) (**) 2207

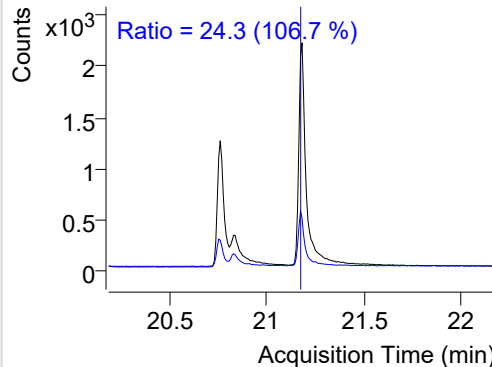


Benzo(g,h,i)perylene

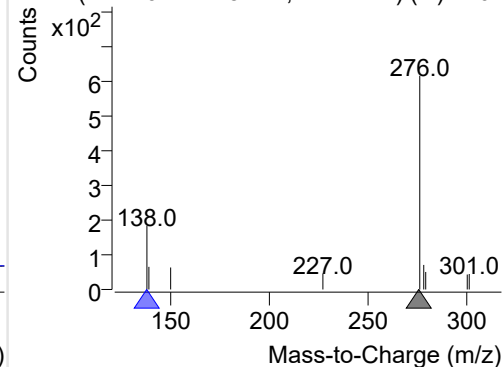
+ Selected Ion (276.0) 220707-PAHs-005.D



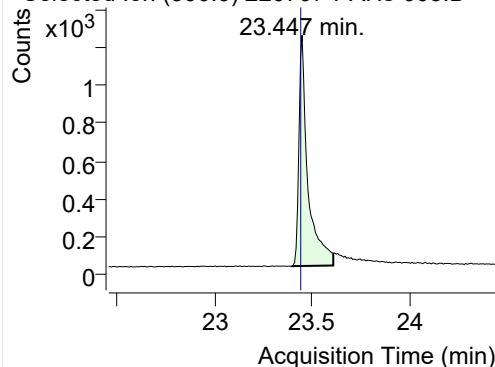
276.0, 138.0



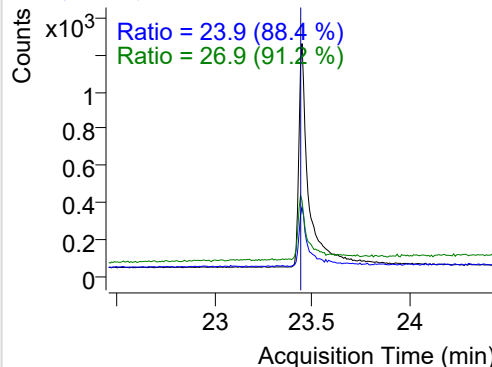
+ SIM (21.119-21.278 min, 21 scans) (**) 2207

**Coronene**

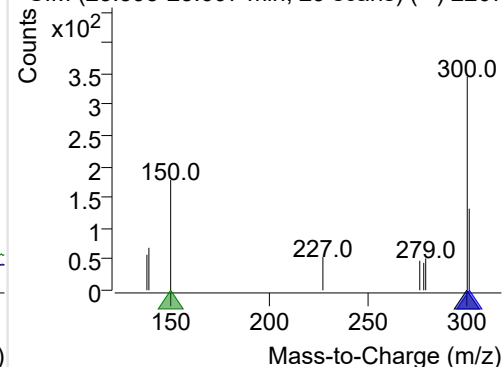
+ Selected Ion (300.0) 220707-PAHs-005.D



300.0, 301.0, 150.0



+ SIM (23.393-23.607 min, 29 scans) (**) 2207



Quantitative Analysis Sample Based Report

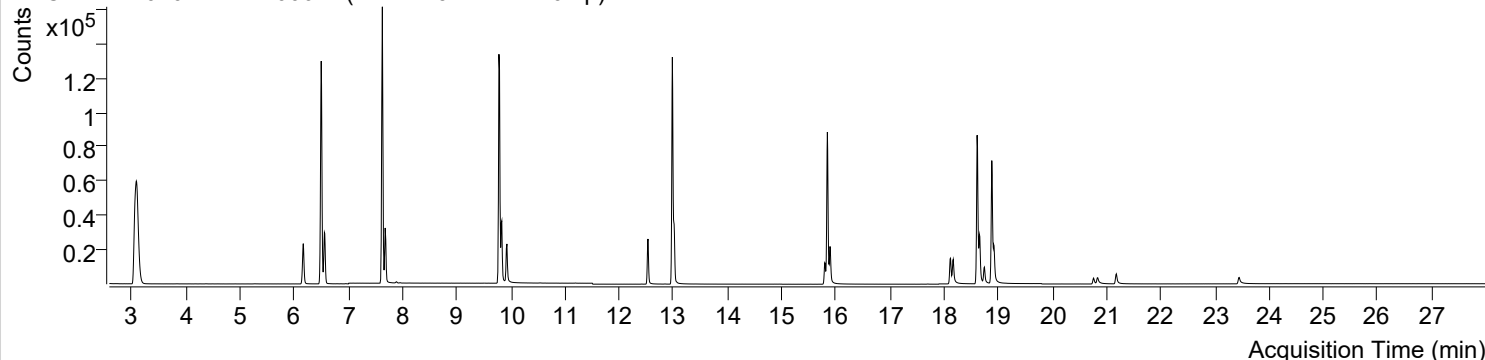


Trusted Answers

| | | | |
|---------------------------|--|-----------------------|------------------------|
| Batch Data Path File Name | D:\MassHunter\GCMS\1\data\PAHs\220707-PAHs-Sample\QuantResults\220707-PAHs-Quant.batch.bin | | |
| Analysis Time Stamp | 2022-07-09 오전 11:12:52 | Analyst Name | DESKTOP-86B7UPG\5975MS |
| Report Generation Time | 2022-07-09 오전 11:13:20 | Report Generator Name | DESKTOP-86B7UPG\5975MS |
| Calibration Last Update | 2022-07-09 오전 11:04:15 | Batch State | Processed |
| Analyze Quant Version | 10.2 | Report Quant Version | 10.2 |
| Acq. Date-Time | 2022-07-07 오후 3:54:54 | Data File | 220707-PAHs-006.D |
| Type | Sample | Name | PAHs-19mix-STD-0.2p |
| Dil. | 1 | Acq. Method File | PAHs 19mix-Method |

Sample Chromatogram

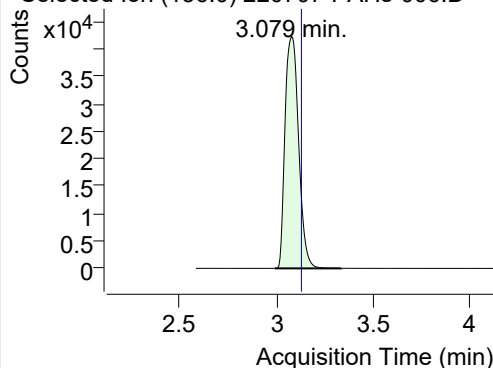
+ TIC SIM 220707-PAHs-006.D (PAHs-19mix-STD-0.2p)



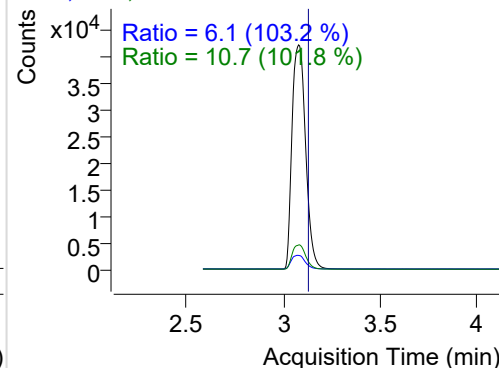
| Name | RT | Transition | Resp. | Height | Final Conc. Units | Ratio |
|-------------------------|--------|------------|--------|----------|-------------------|-------|
| IS-D8-Naphthalene | 3.079 | 136.0 | 204830 | 42120.76 | ND ng/ml | 10.7 |
| Naphthalene | 3.107 | 128.0 | 46552 | 9757.43 | ND ng/ml | 12.7 |
| Acenaphthylene | 6.167 | 152.0 | 34638 | 17535.40 | ND ng/ml | 19.5 |
| IS-D10-Acenaphthene | 6.498 | 164.0 | 111827 | 61925.21 | ND ng/ml | 95.8 |
| Acenaphthene | 6.563 | 154.0 | 20214 | 10435.70 | ND ng/ml | 107.5 |
| LSS-D10-Fluorene | 7.627 | 176.0 | 117582 | 73297.77 | ND ng/ml | 92.9 |
| Fluorene | 7.679 | 166.0 | 25704 | 14844.78 | ND ng/ml | 92.5 |
| IS-D10-Phenanthrene | 9.780 | 188.0 | 188833 | 103442.5 | ND ng/ml | 14.8 |
| Phenanthrene | 9.832 | 178.0 | 38403 | 22420.88 | ND ng/ml | 19.2 |
| Anthracene | 9.927 | 178.0 | 27621 | 15025.31 | ND ng/ml | 19.1 |
| Fluoranthene | 12.531 | 202.0 | 33875 | 20295.79 | ND ng/ml | 17.0 |
| LSS-D10-Pyrene | 12.981 | 212.0 | 152073 | 97258.36 | ND ng/ml | 18.2 |
| Pyrene | 13.014 | 202.0 | 39796 | 23295.31 | ND ng/ml | 18.5 |
| Benz(a)anthracene | 15.795 | 228.0 | 17125 | 8565.80 | ND ng/ml | 25.8 |
| IS-D12-Chrysene | 15.843 | 240.0 | 114718 | 65570.56 | ND ng/ml | 18.8 |
| Chrysene | 15.892 | 228.0 | 25323 | 13146.18 | ND ng/ml | 29.0 |
| Benzo(b)fluoranthene | 18.117 | 252.0 | 16516 | 8724.03 | ND ng/ml | 21.6 |
| Benzo(k)fluoranthene | 18.167 | 252.0 | 18479 | 8080.91 | ND ng/ml | 20.6 |
| SS-D12-Benzo(e)pyrene | 18.608 | 264.0 | 108817 | 58096.88 | ND ng/ml | 25.7 |
| Benzo(e)pyrene | 18.658 | 252.0 | 27056 | 13593.88 | ND ng/ml | 21.8 |
| Benzo(a)pyrene | 18.744 | 252.0 | 10401 | 5146.21 | ND ng/ml | 22.5 |
| IS-D12-Perylene | 18.879 | 264.0 | 91506 | 48260.66 | ND ng/ml | 23.8 |
| Perylene | 18.921 | 252.0 | 19281 | 9302.93 | ND ng/ml | 22.5 |
| Indeno(1,2,3-c,d)pyrene | 20.759 | 276.0 | 5897 | 2713.56 | ND ng/ml | 21.2 |
| Dibenz(a,h)anthracene | 20.835 | 278.0 | 5653 | 1913.38 | ND ng/ml | 23.4 |
| Benzo(g,h,i)perylene | 21.179 | 276.0 | 11623 | 4583.50 | ND ng/ml | 22.8 |
| Coronene | 23.446 | 300.0 | 7927 | 2415.93 | ND ng/ml | 28.4 |

IS-D8-Naphthalene

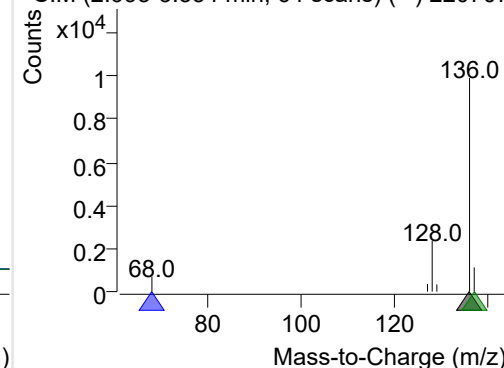
+ Selected Ion (136.0) 220707-PAHs-006.D



136.0, 68.0, 137.0

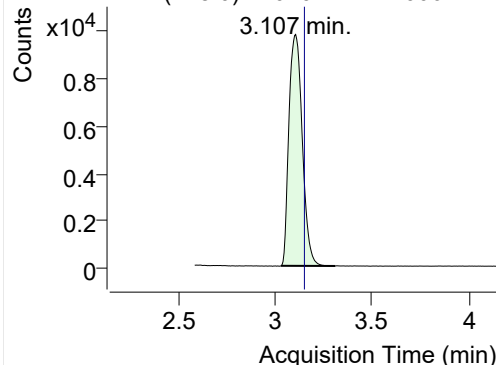


+ SIM (2.993-3.334 min, 64 scans) (**) 220707

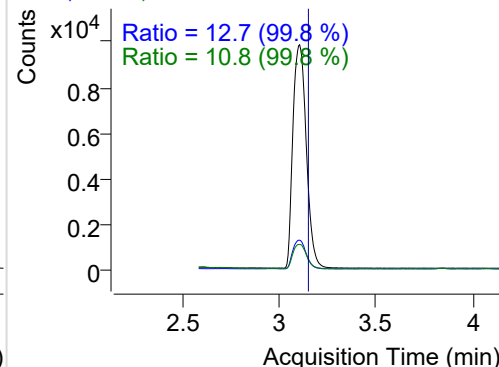


Naphthalene

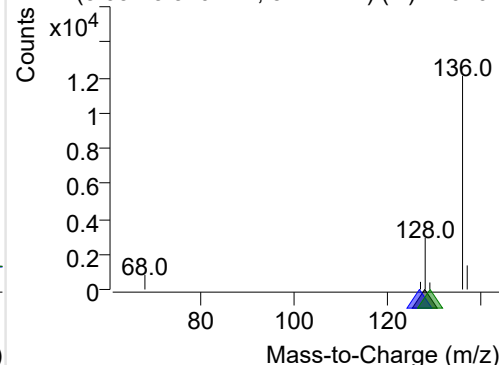
+ Selected Ion (128.0) 220707-PAHs-006.D



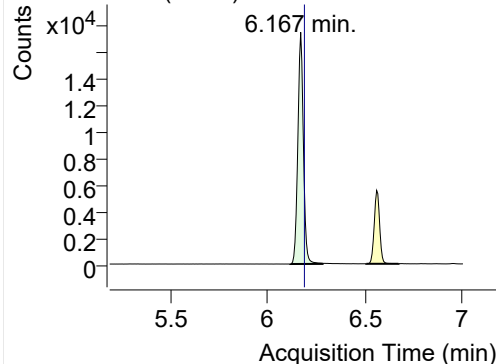
128.0, 127.0, 129.0



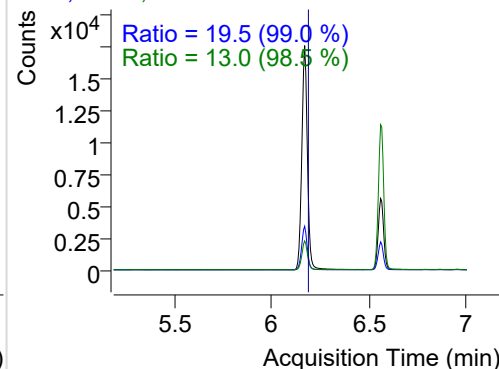
+ SIM (3.031-3.310 min, 51 scans) (**) 220707

**Acenaphthylene**

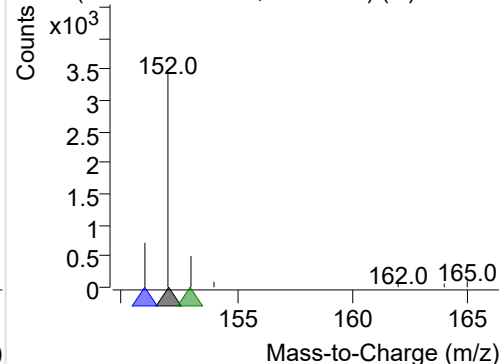
+ Selected Ion (152.0) 220707-PAHs-006.D



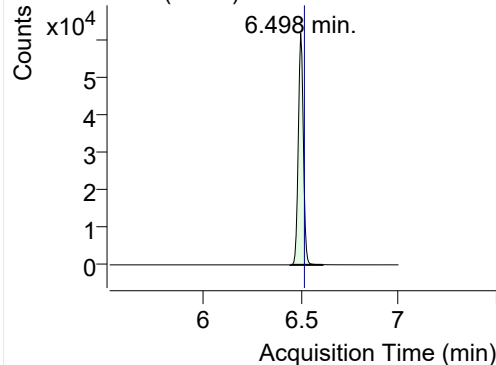
152.0, 151.0, 153.0



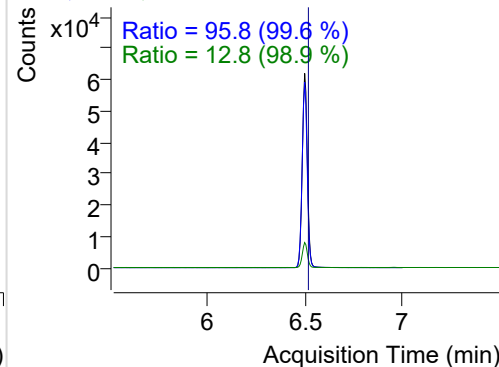
+ SIM (6.114-6.279 min, 29 scans) (**) 220707

**IS-D10-Acenaphthene**

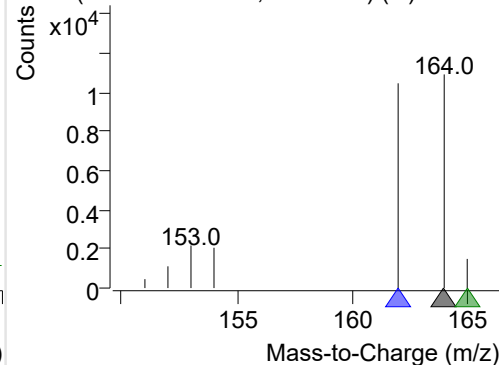
+ Selected Ion (164.0) 220707-PAHs-006.D



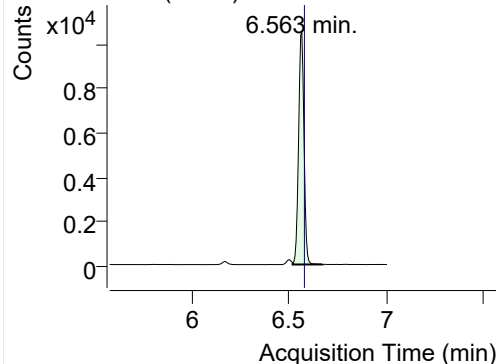
164.0, 162.0, 165.0



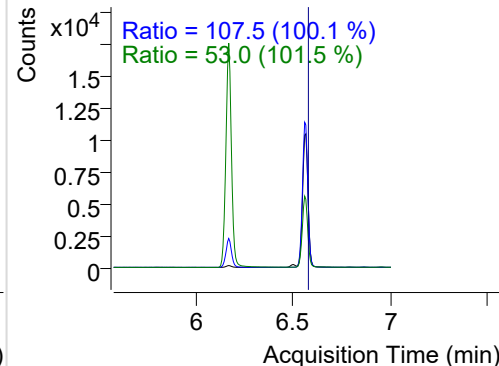
+ SIM (6.445-6.611 min, 29 scans) (**) 220707

**Acenaphthene**

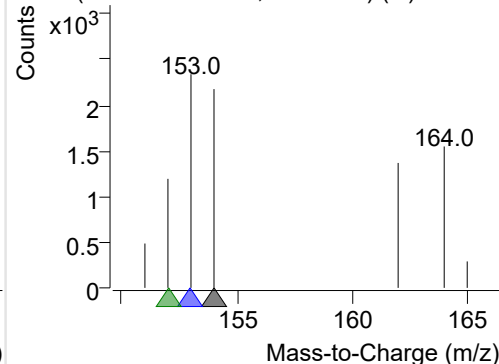
+ Selected Ion (154.0) 220707-PAHs-006.D



154.0, 153.0, 152.0

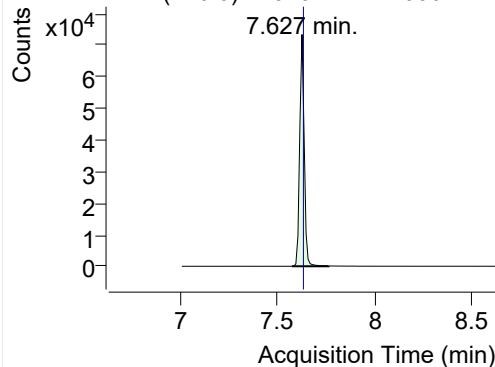


+ SIM (6.516-6.670 min, 27 scans) (**) 220707

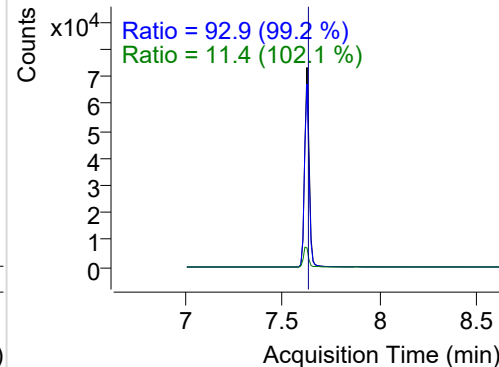


LSS-D10-Fluorene

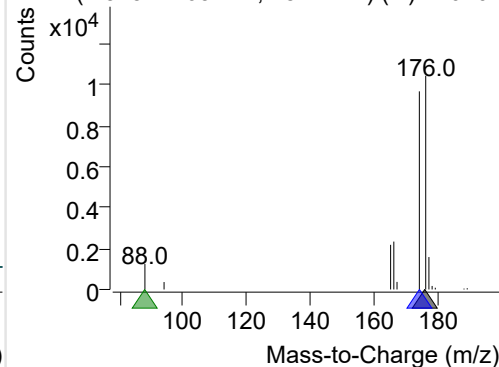
+ Selected Ion (176.0) 220707-PAHs-006.D



176.0, 174.0, 88.0

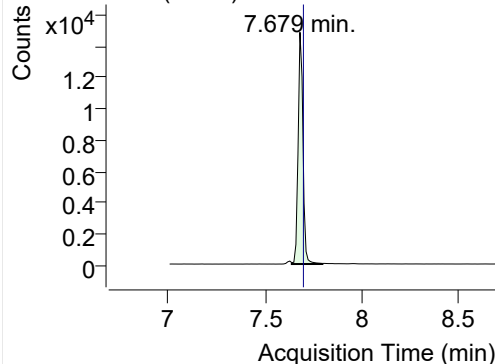


+ SIM (7.575-7.763 min, 18 scans) (**) 220707

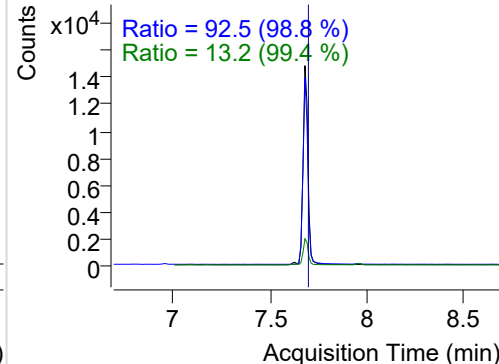


Fluorene

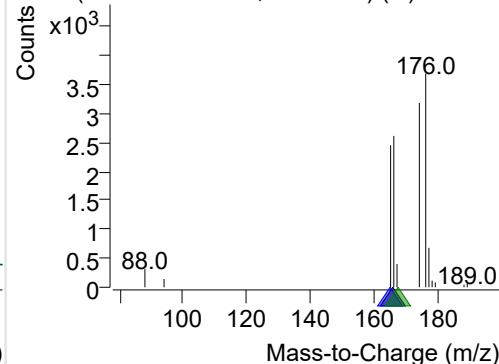
+ Selected Ion (166.0) 220707-PAHs-006.D



166.0, 165.0, 167.0

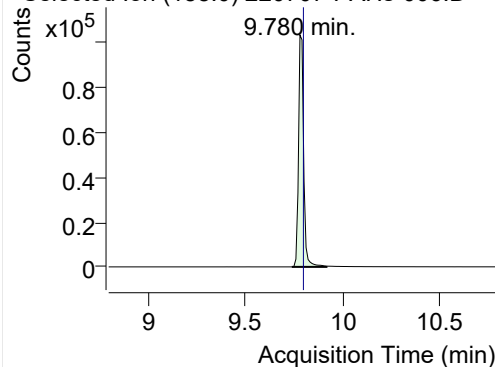


+ SIM (7.637-7.795 min, 16 scans) (**) 220707

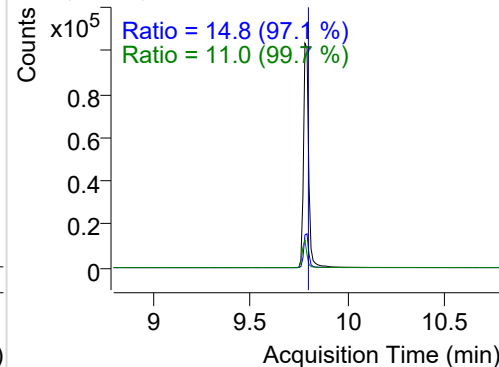


IS-D10-Phenanthrene

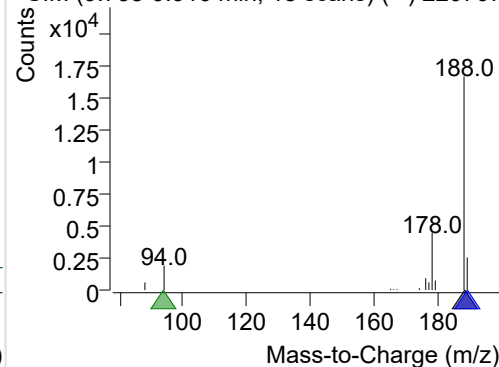
+ Selected Ion (188.0) 220707-PAHs-006.D



188.0, 189.0, 94.0

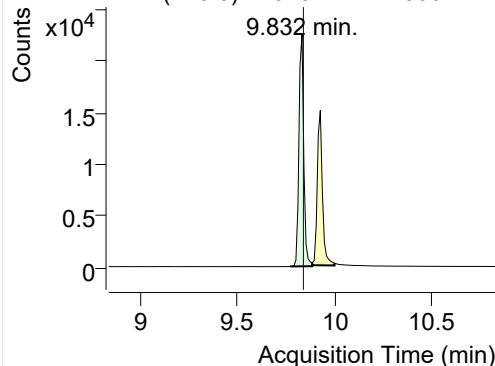


+ SIM (9.738-9.916 min, 18 scans) (**) 220707

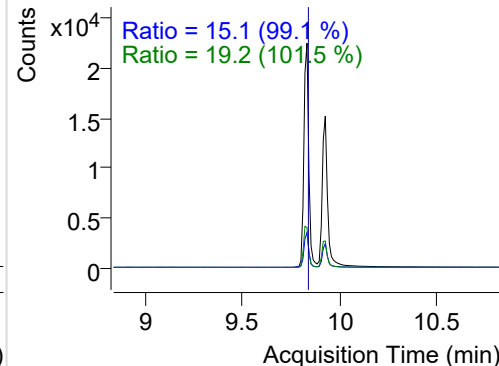


Phenanthrene

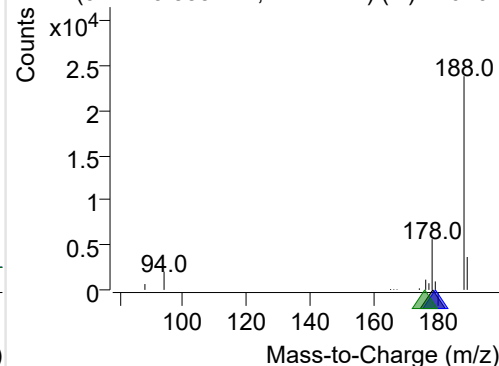
+ Selected Ion (178.0) 220707-PAHs-006.D



178.0, 179.0, 176.0

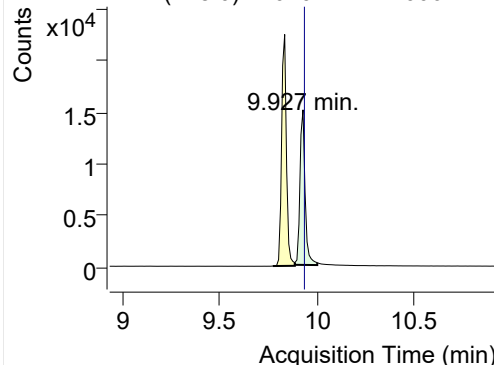


+ SIM (9.771-9.885 min, 11 scans) (**) 220707

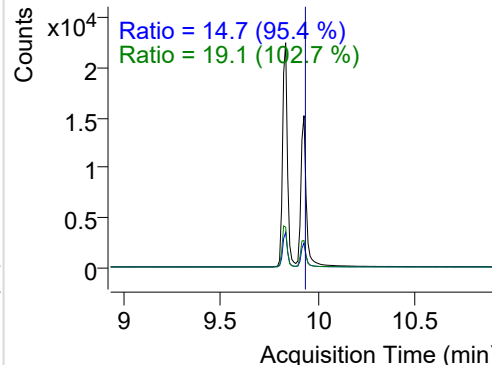


Anthracene

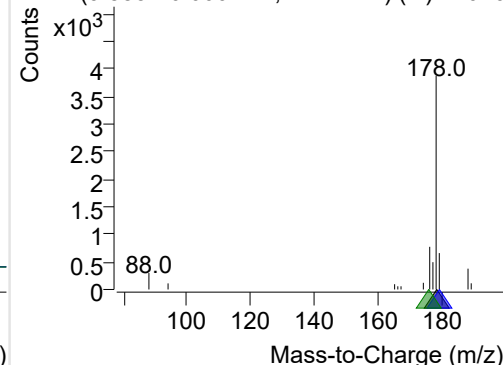
+ Selected Ion (178.0) 220707-PAHs-006.D



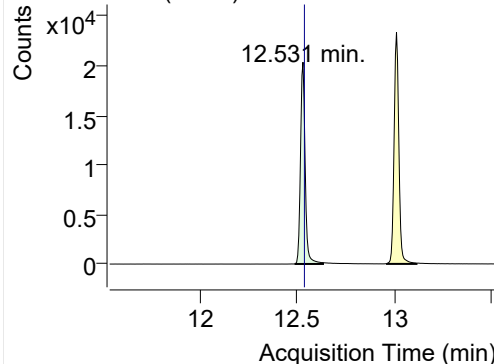
178.0, 179.0, 176.0



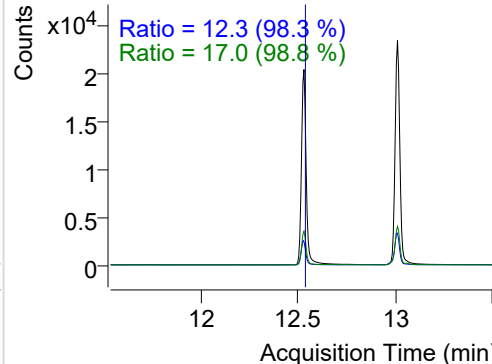
+ SIM (9.885-10.000 min, 12 scans) (**) 22070

**Fluoranthene**

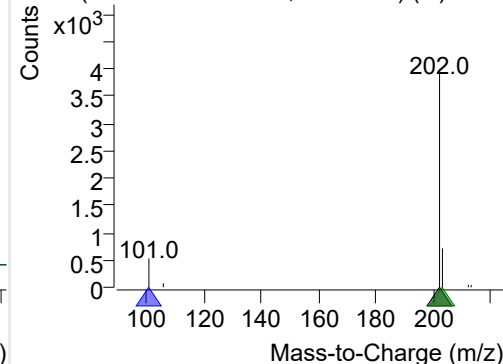
+ Selected Ion (202.0) 220707-PAHs-006.D



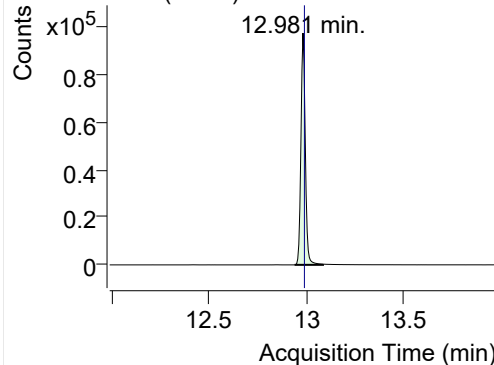
202.0, 101.0, 203.0



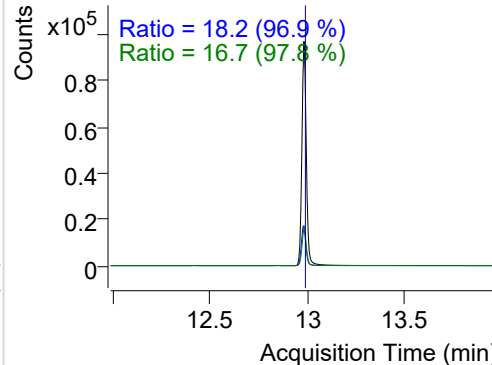
+ SIM (12.488-12.634 min, 27 scans) (**) 2207

**LSS-D10-Pyrene**

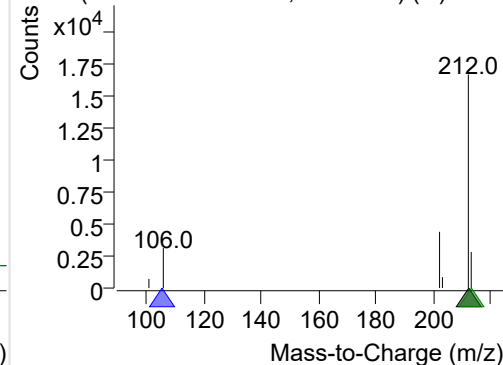
+ Selected Ion (212.0) 220707-PAHs-006.D



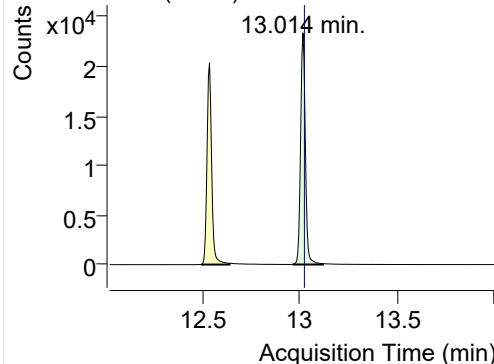
212.0, 106.0, 213.0



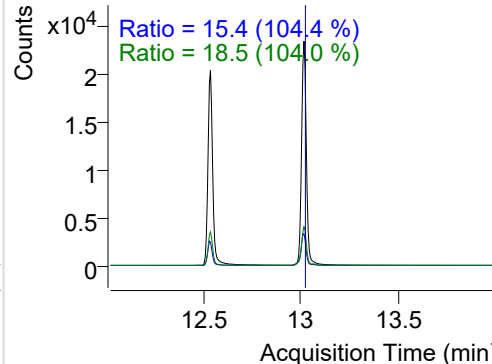
+ SIM (12.938-13.084 min, 28 scans) (**) 2207

**Pyrene**

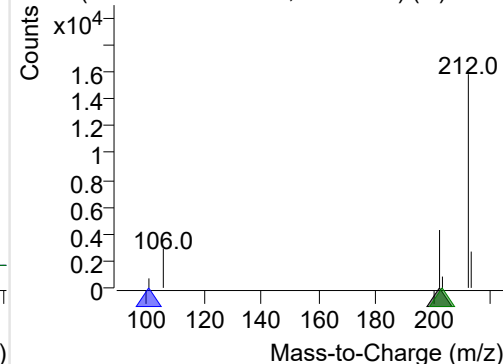
+ Selected Ion (202.0) 220707-PAHs-006.D



202.0, 101.0, 203.0

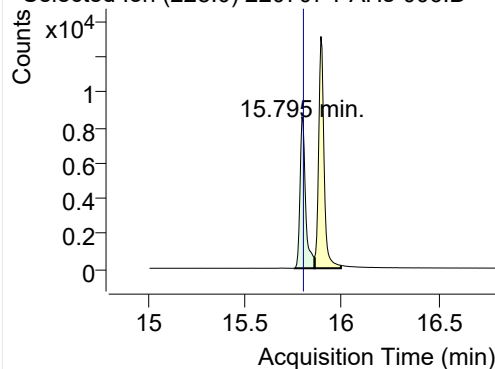


+ SIM (12.965-13.117 min, 29 scans) (**) 2207

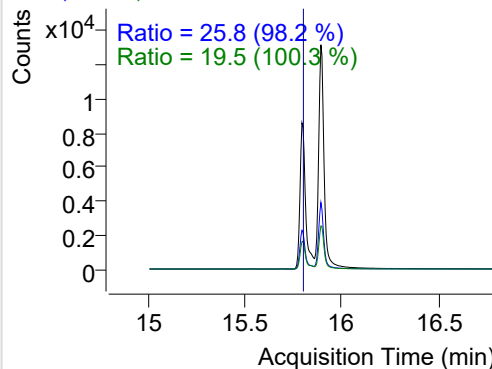


Benz(a)anthracene

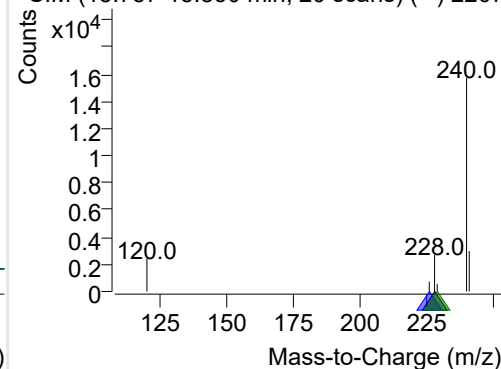
+ Selected Ion (228.0) 220707-PAHs-006.D



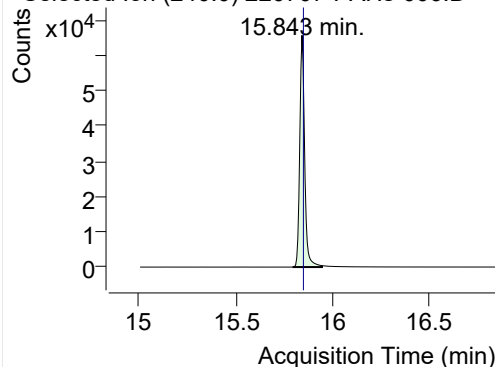
228.0, 226.0, 229.0



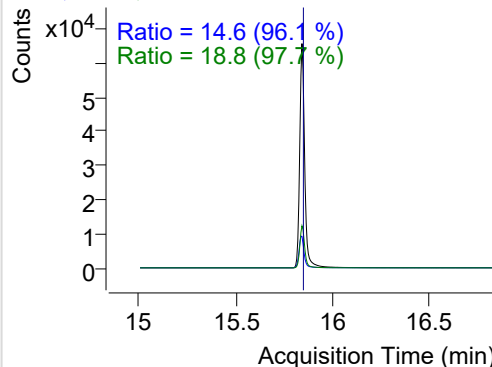
+ SIM (15.757-15.860 min, 20 scans) (**) 2207

**IS-D12-Chrysene**

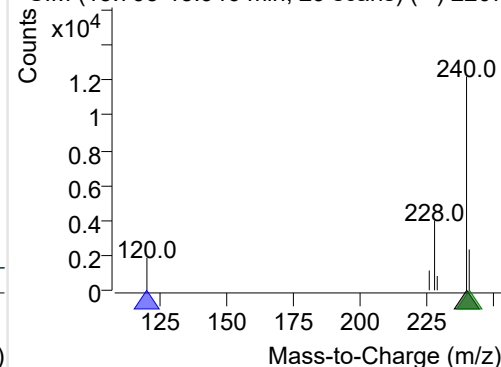
+ Selected Ion (240.0) 220707-PAHs-006.D



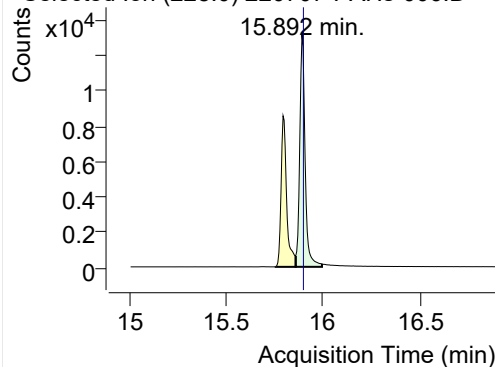
240.0, 120.0, 241.0



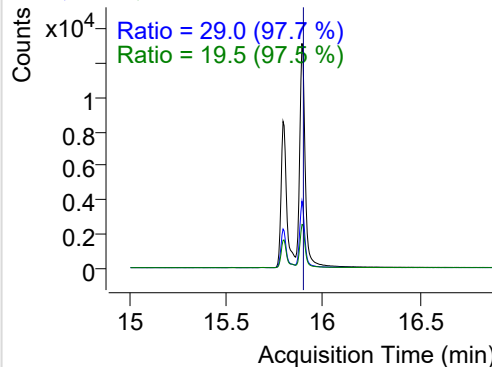
+ SIM (15.795-15.946 min, 29 scans) (**) 2207

**Chrysene**

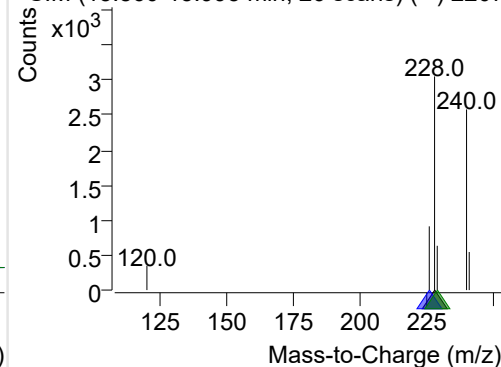
+ Selected Ion (228.0) 220707-PAHs-006.D



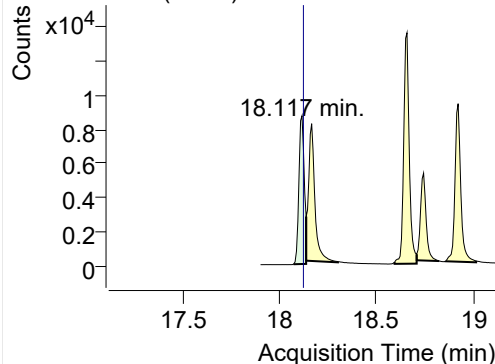
228.0, 226.0, 229.0



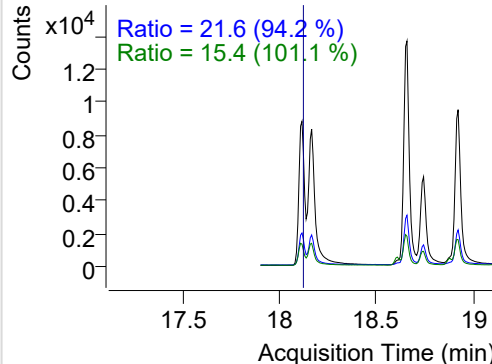
+ SIM (15.860-15.995 min, 26 scans) (**) 2207

**Benzo(b)fluoranthene**

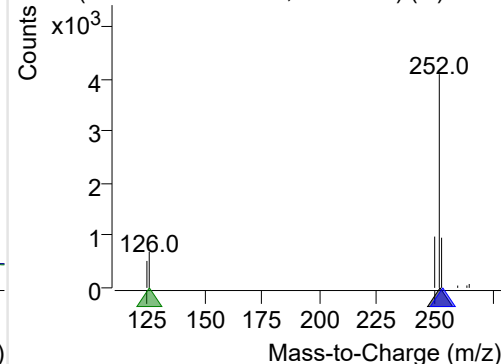
+ Selected Ion (252.0) 220707-PAHs-006.D



252.0, 253.0, 126.0

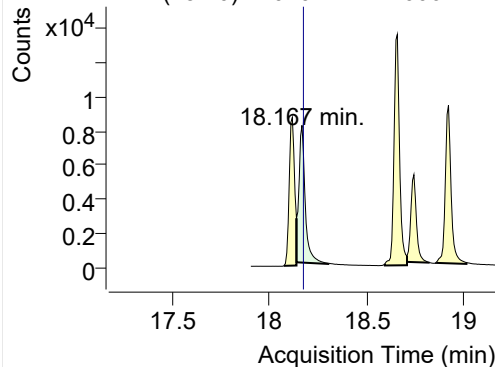


+ SIM (18.073-18.138 min, 10 scans) (**) 2207

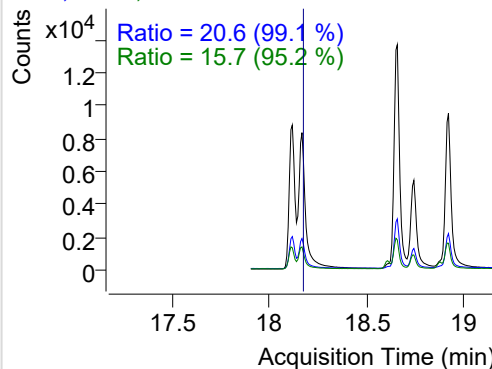


Benzo(k)fluoranthene

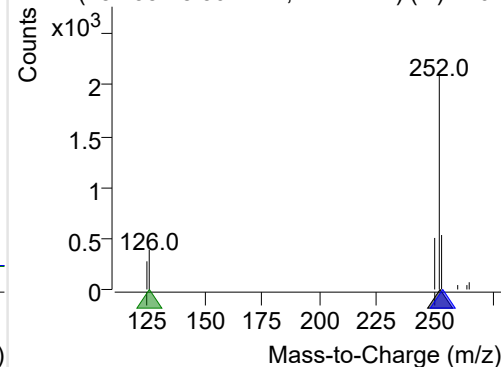
+ Selected Ion (252.0) 220707-PAHs-006.D



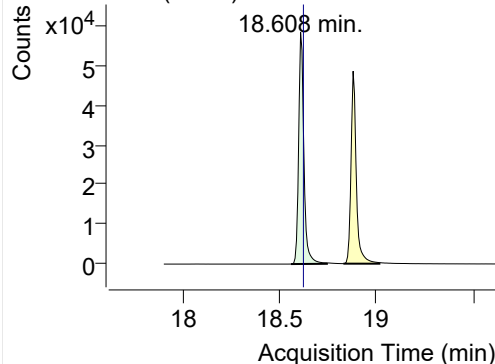
252.0, 253.0, 126.0



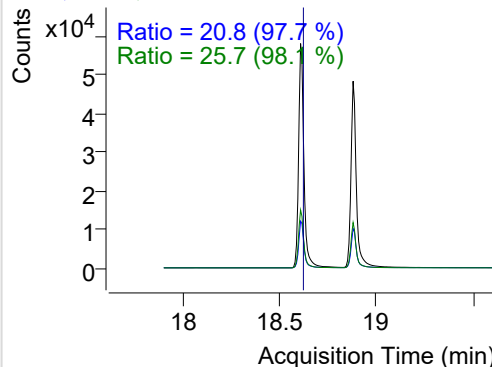
+ SIM (18.138-18.302 min, 24 scans) (**) 2207

**SS-D12-Benzo(e)pyrene**

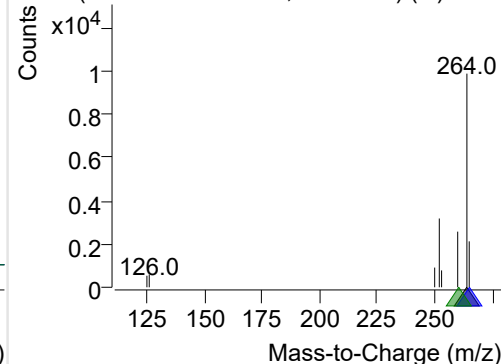
+ Selected Ion (264.0) 220707-PAHs-006.D



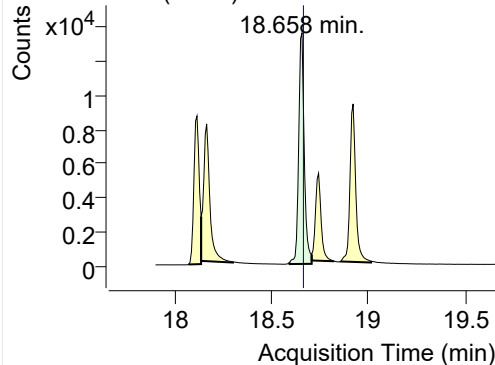
264.0, 265.0, 260.0



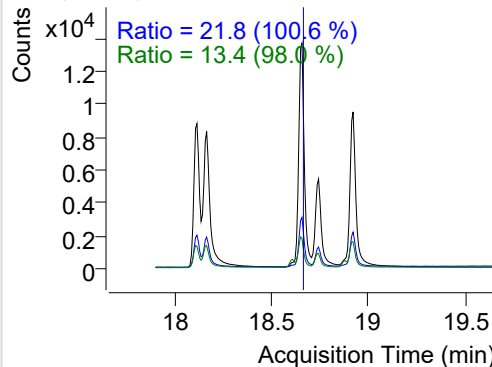
+ SIM (18.559-18.744 min, 26 scans) (**) 2207

**Benzo(e)pyrene**

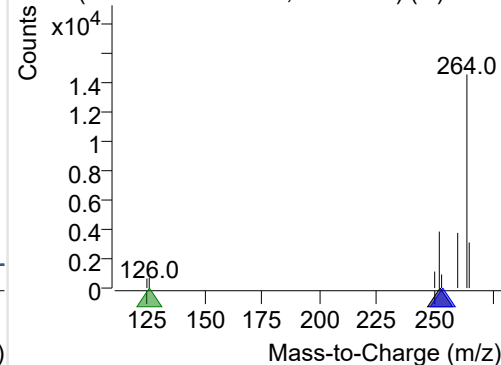
+ Selected Ion (252.0) 220707-PAHs-006.D



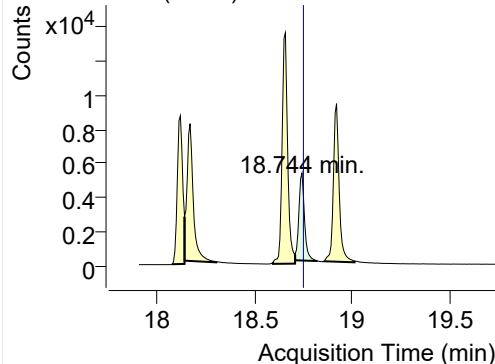
252.0, 253.0, 126.0



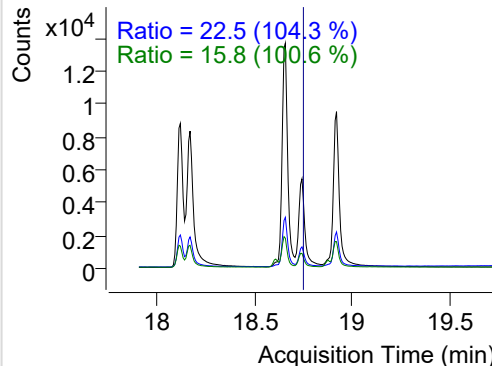
+ SIM (18.594-18.708 min, 17 scans) (**) 2207

**Benzo(a)pyrene**

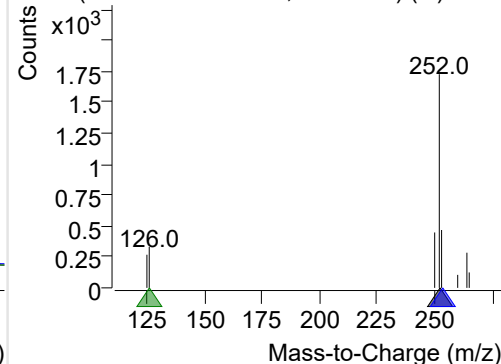
+ Selected Ion (252.0) 220707-PAHs-006.D



252.0, 253.0, 126.0

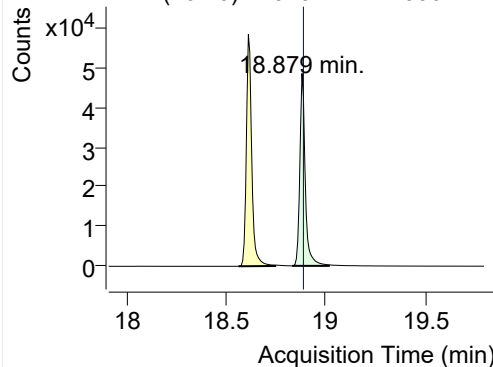


+ SIM (18.708-18.824 min, 17 scans) (**) 2207

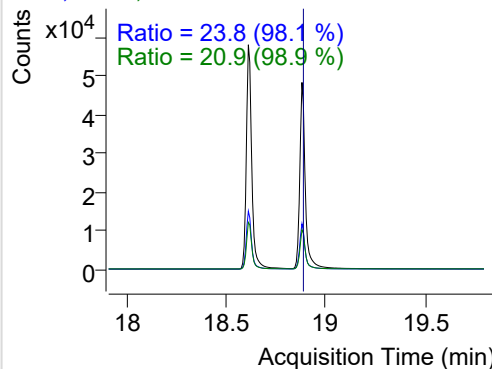


IS-D12-Perylene

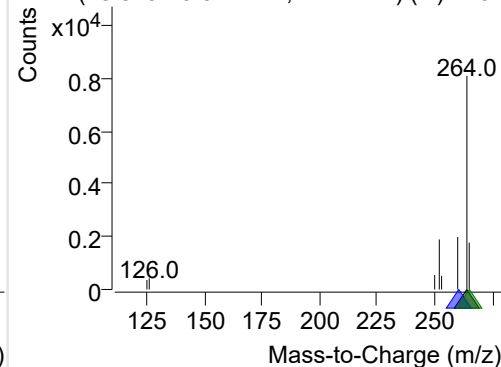
+ Selected Ion (264.0) 220707-PAHs-006.D



264.0, 260.0, 265.0

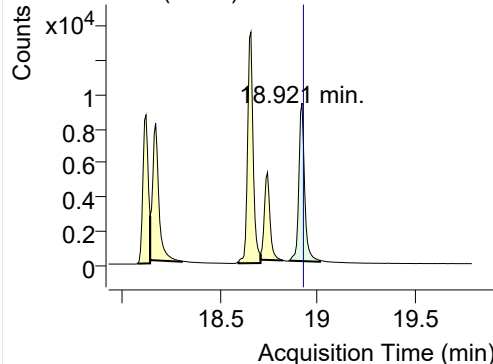


+ SIM (18.829-19.014 min, 27 scans) (**) 2207

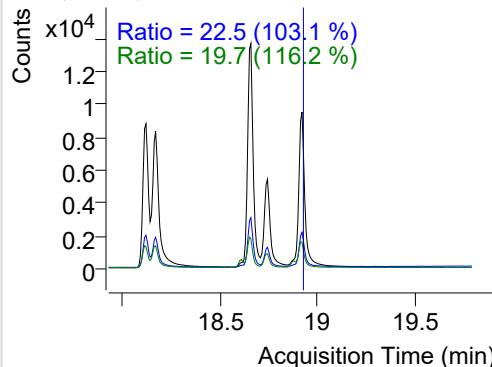


Perylene

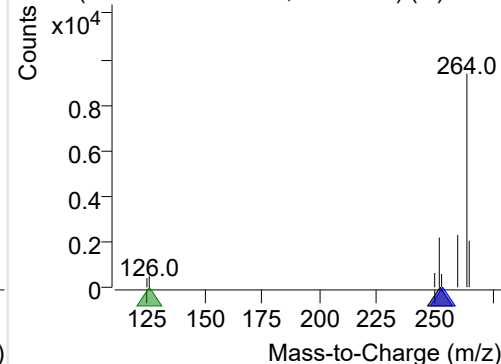
+ Selected Ion (252.0) 220707-PAHs-006.D



252.0, 253.0, 126.0

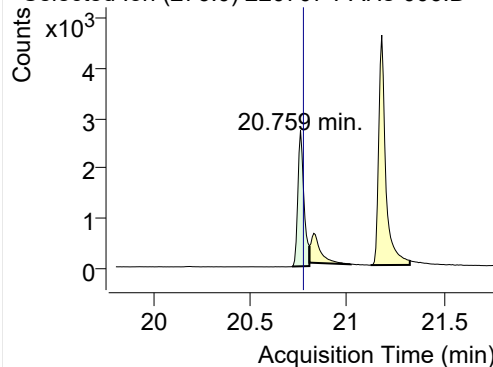


+ SIM (18.857-19.014 min, 23 scans) (**) 2207

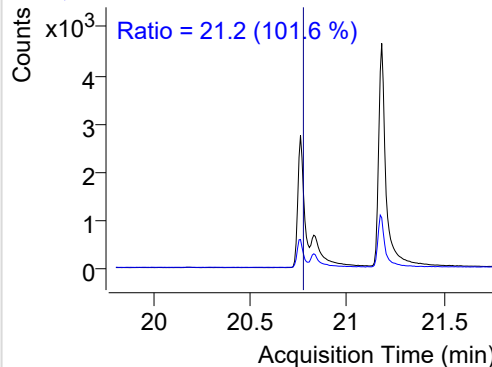


Indeno(1,2,3-c,d)pyrene

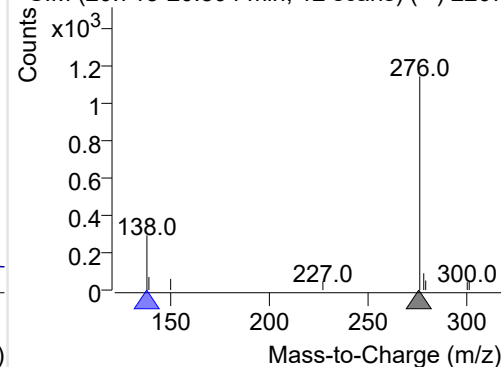
+ Selected Ion (276.0) 220707-PAHs-006.D



276.0, 138.0

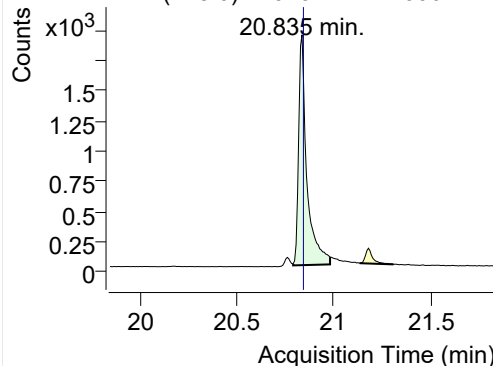


+ SIM (20.715-20.804 min, 12 scans) (**) 2207

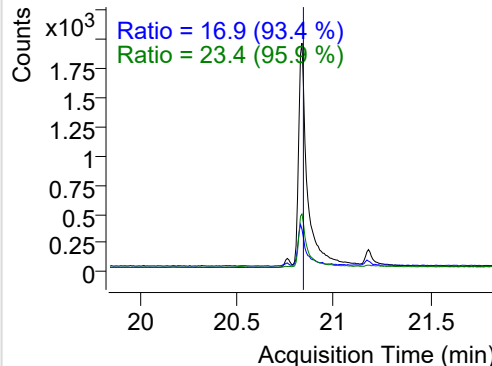


Dibenz(a,h)anthracene

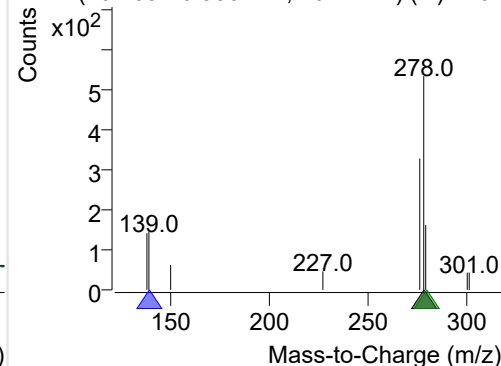
+ Selected Ion (278.0) 220707-PAHs-006.D



278.0, 139.0, 279.0

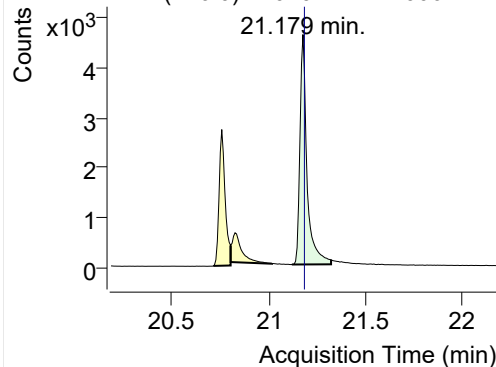


+ SIM (20.789-20.980 min, 26 scans) (**) 2207

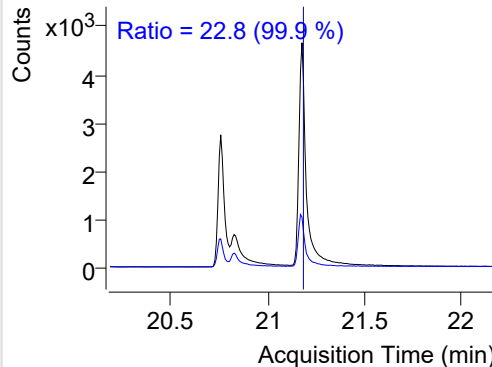


Benzo(g,h,i)perylene

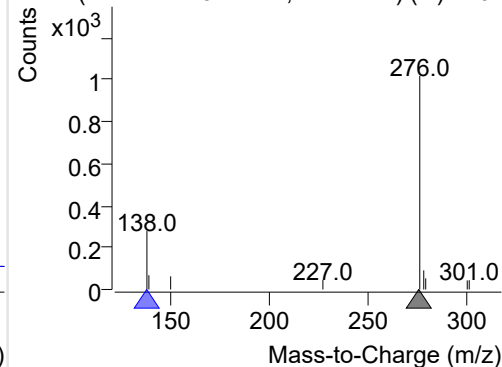
+ Selected Ion (276.0) 220707-PAHs-006.D



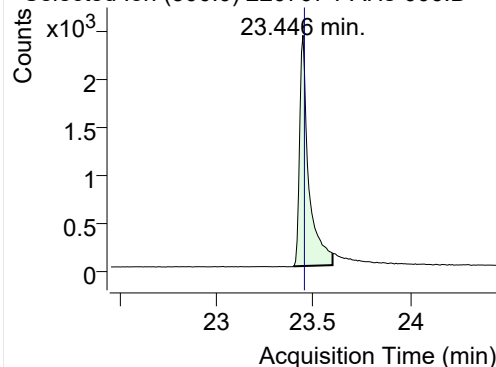
276.0, 138.0



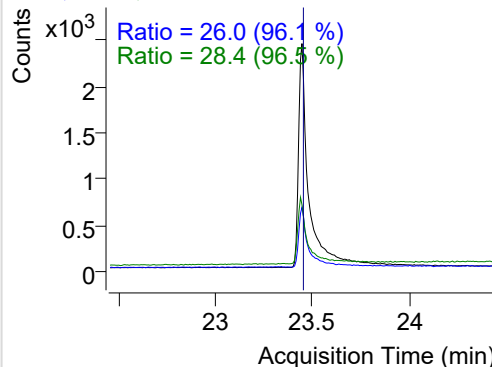
+ SIM (21.121-21.324 min, 27 scans) (**) 2207

**Coronene**

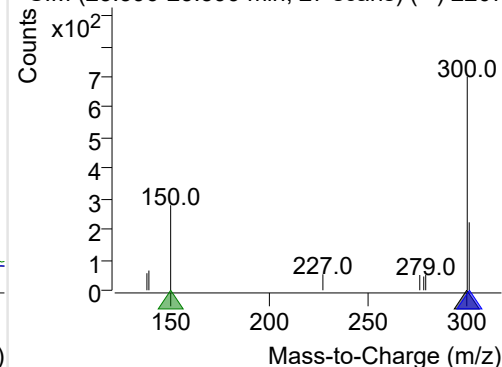
+ Selected Ion (300.0) 220707-PAHs-006.D



300.0, 301.0, 150.0



+ SIM (23.396-23.599 min, 27 scans) (**) 2207



Quantitative Analysis Sample Based Report

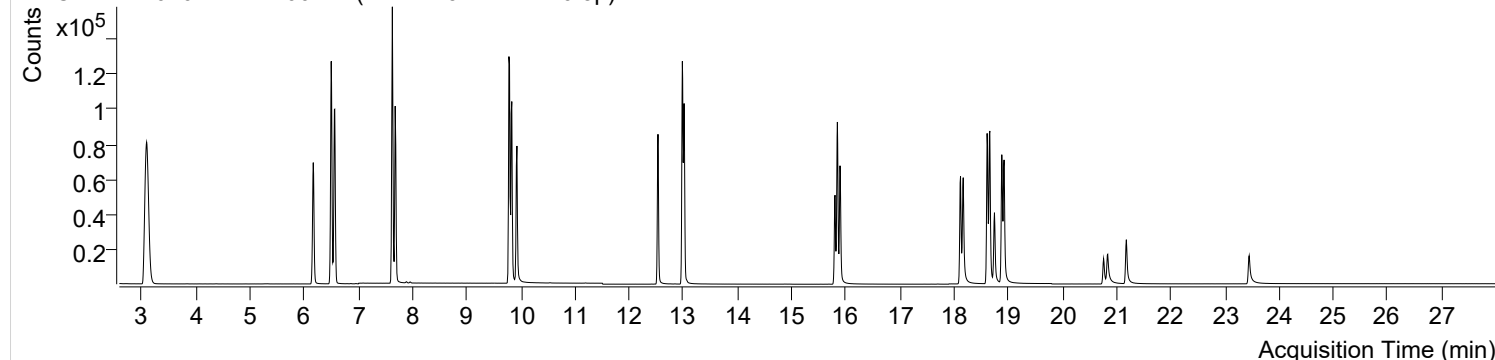


Trusted Answers

| | | | |
|---------------------------|--|-----------------------|------------------------|
| Batch Data Path File Name | D:\MassHunter\GCMS\1\data\PAHs\220707-PAHs-Sample\QuantResults\220707-PAHs-Quant.batch.bin | | |
| Analysis Time Stamp | 2022-07-09 오전 11:12:52 | Analyst Name | DESKTOP-86B7UPG\5975MS |
| Report Generation Time | 2022-07-09 오전 11:13:20 | Report Generator Name | DESKTOP-86B7UPG\5975MS |
| Calibration Last Update | 2022-07-09 오전 11:04:15 | Batch State | Processed |
| Analyze Quant Version | 10.2 | Report Quant Version | 10.2 |
| Acq. Date-Time | 2022-07-07 오후 4:25:58 | Data File | 220707-PAHs-007.D |
| Type | Sample | Name | PAHs-19mix-STD-0.5p |
| Dil. | 1 | Acq. Method File | PAHs 19mix-Method |

Sample Chromatogram

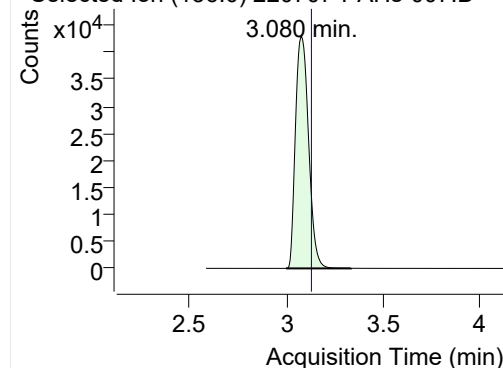
+ TIC SIM 220707-PAHs-007.D (PAHs-19mix-STD-0.5p)



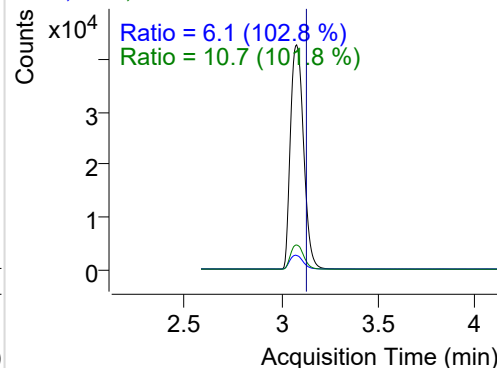
| Name | RT | Transition | Resp. | Height | Final Conc. Units | Ratio |
|-------------------------|--------|------------|--------|-----------|-------------------|-------|
| IS-D8-Naphthalene | 3.080 | 136.0 | 201585 | 42818.03 | ND ng/ml | 10.7 |
| Naphthalene | 3.101 | 128.0 | 133113 | 28234.23 | ND ng/ml | 12.7 |
| Acenaphthylene | 6.167 | 152.0 | 103336 | 51950.82 | ND ng/ml | 19.2 |
| IS-D10-Acenaphthene | 6.499 | 164.0 | 108609 | 60652.69 | ND ng/ml | 96.2 |
| Acenaphthene | 6.564 | 154.0 | 67318 | 36052.57 | ND ng/ml | 106.9 |
| LSS-D10-Fluorene | 7.627 | 176.0 | 114493 | 71795.87 | ND ng/ml | 92.4 |
| Fluorene | 7.680 | 166.0 | 80810 | 47576.01 | ND ng/ml | 93.0 |
| IS-D10-Phenanthrene | 9.791 | 188.0 | 183485 | 101937.74 | ND ng/ml | 15.0 |
| Phenanthrene | 9.833 | 178.0 | 115267 | 67584.52 | ND ng/ml | 19.1 |
| Anthracene | 9.927 | 178.0 | 91563 | 52680.18 | ND ng/ml | 18.4 |
| Fluoranthene | 12.532 | 202.0 | 107428 | 65990.91 | ND ng/ml | 17.2 |
| LSS-D10-Pyrene | 12.982 | 212.0 | 148492 | 92946.55 | ND ng/ml | 18.3 |
| Pyrene | 13.014 | 202.0 | 122346 | 74872.43 | ND ng/ml | 17.9 |
| Benz(a)anthracene | 15.800 | 228.0 | 61572 | 34875.09 | ND ng/ml | 26.3 |
| IS-D12-Chrysene | 15.844 | 240.0 | 119040 | 67265.45 | ND ng/ml | 18.8 |
| Chrysene | 15.892 | 228.0 | 81341 | 43769.89 | ND ng/ml | 29.0 |
| Benzo(b)fluoranthene | 18.117 | 252.0 | 62830 | 36304.52 | ND ng/ml | 21.4 |
| Benzo(k)fluoranthene | 18.167 | 252.0 | 76166 | 35423.58 | ND ng/ml | 21.1 |
| SS-D12-Benzo(e)pyrene | 18.609 | 264.0 | 107938 | 57494.16 | ND ng/ml | 25.8 |
| Benzo(e)pyrene | 18.658 | 252.0 | 87926 | 46887.34 | ND ng/ml | 21.6 |
| Benzo(a)pyrene | 18.744 | 252.0 | 47198 | 22817.58 | ND ng/ml | 19.5 |
| IS-D12-Perylene | 18.879 | 264.0 | 95442 | 48915.50 | ND ng/ml | 24.1 |
| Perylene | 18.922 | 252.0 | 68932 | 35562.41 | ND ng/ml | 20.8 |
| Indeno(1,2,3-c,d)pyrene | 20.759 | 276.0 | 24729 | 11404.38 | ND ng/ml | 21.5 |
| Dibenz(a,h)anthracene | 20.835 | 278.0 | 25440 | 8884.70 | ND ng/ml | 23.7 |
| Benzo(g,h,i)perylene | 21.179 | 276.0 | 48149 | 19748.01 | ND ng/ml | 22.6 |
| Coronene | 23.447 | 300.0 | 32050 | 10438.16 | ND ng/ml | 29.3 |

IS-D8-Naphthalene

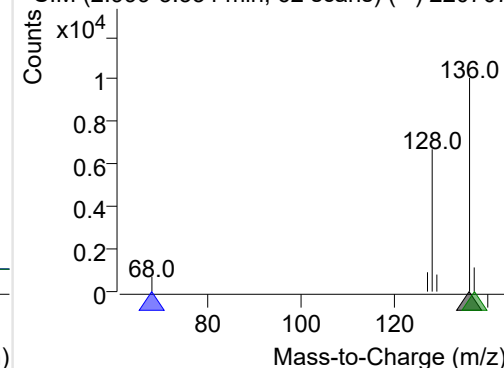
+ Selected Ion (136.0) 220707-PAHs-007.D



136.0, 68.0, 137.0

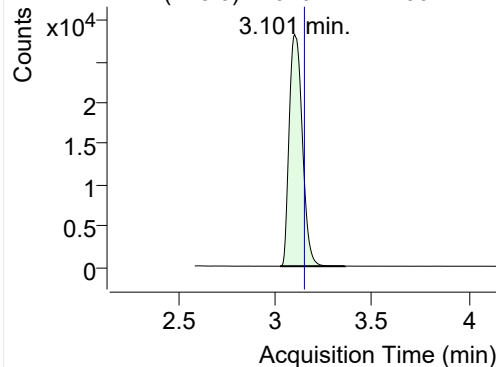


+ SIM (2.999-3.334 min, 62 scans) (**) 220707

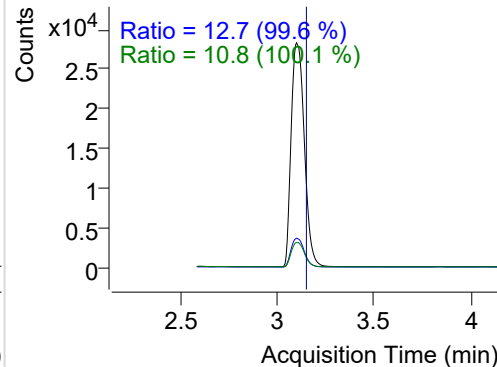


Naphthalene

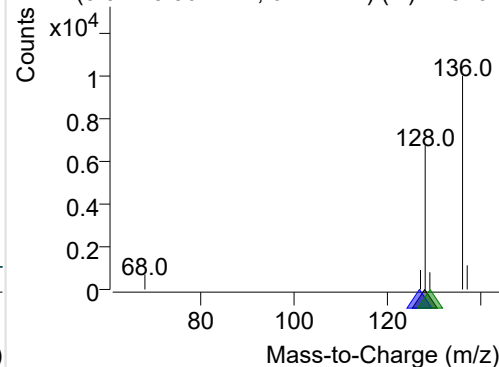
+ Selected Ion (128.0) 220707-PAHs-007.D



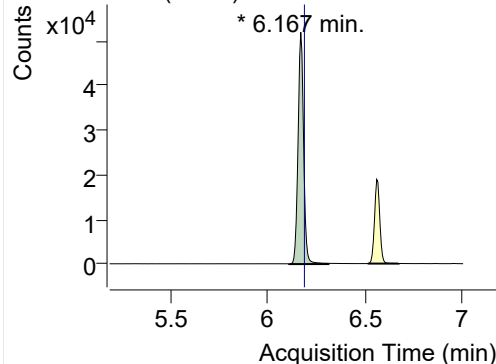
128.0, 127.0, 129.0



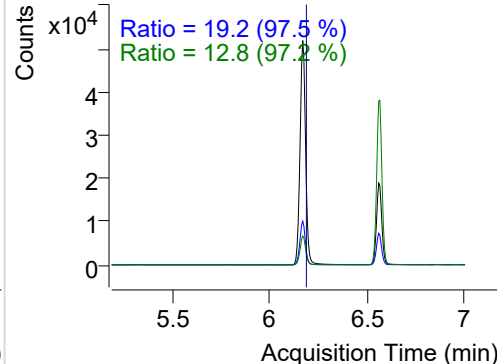
+ SIM (3.027-3.361 min, 62 scans) (**) 220707

**Acenaphthylene**

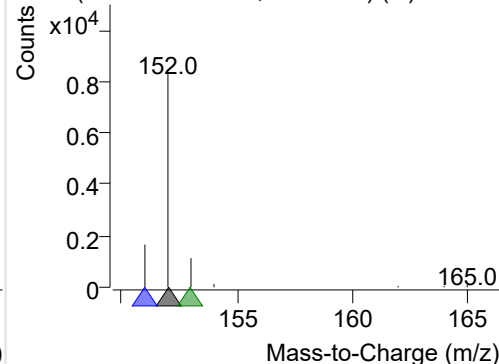
+ Selected Ion (152.0) 220707-PAHs-007.D



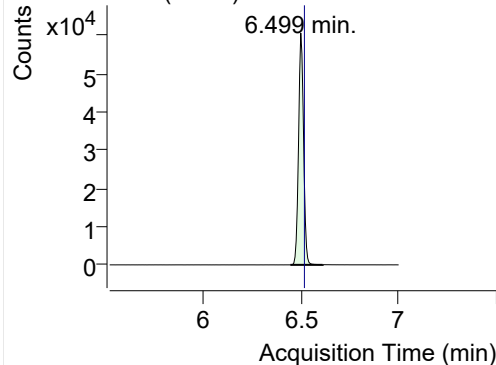
152.0, 151.0, 153.0



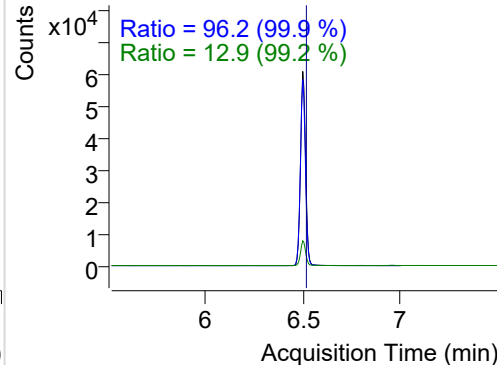
+ SIM (6.108-6.309 min, 35 scans) (**) 220707

**IS-D10-Acenaphthene**

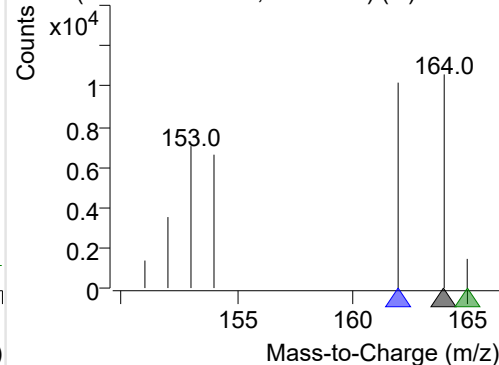
+ Selected Ion (164.0) 220707-PAHs-007.D



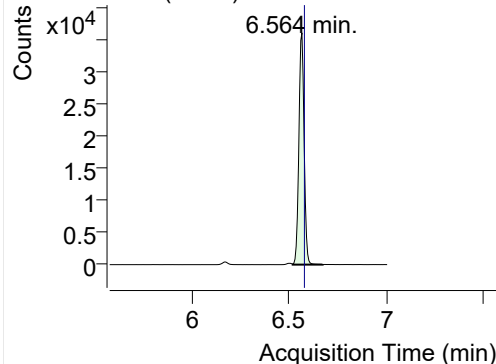
164.0, 162.0, 165.0



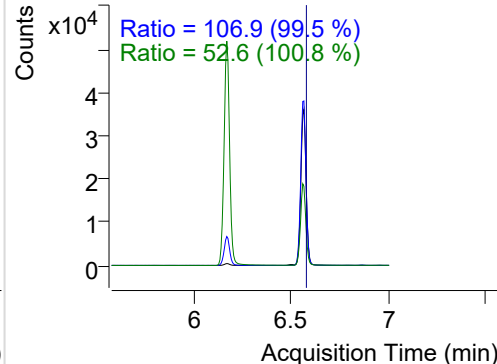
+ SIM (6.445-6.611 min, 29 scans) (**) 220707

**Acenaphthene**

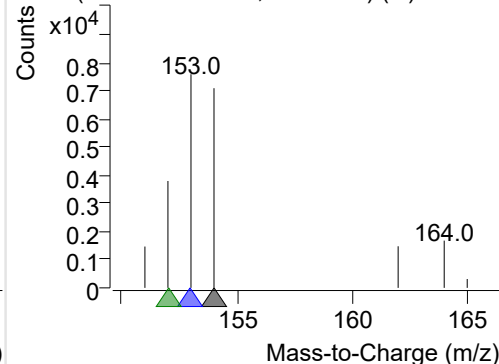
+ Selected Ion (154.0) 220707-PAHs-007.D



154.0, 153.0, 152.0

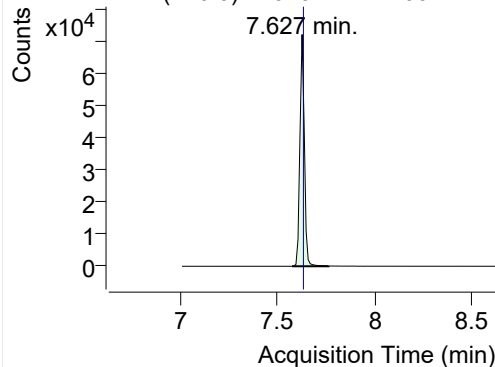


+ SIM (6.516-6.670 min, 27 scans) (**) 220707

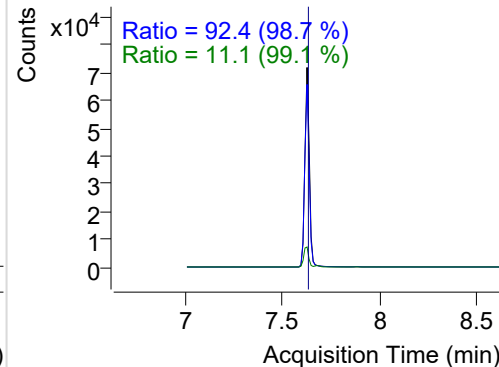


LSS-D10-Fluorene

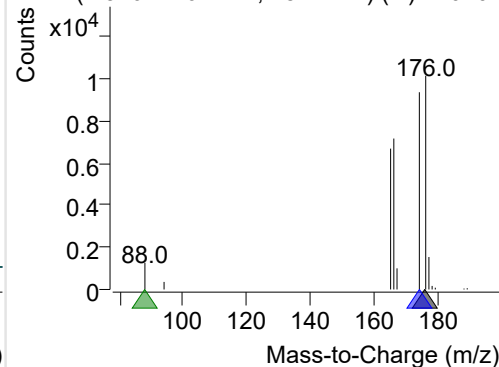
+ Selected Ion (176.0) 220707-PAHs-007.D



176.0, 174.0, 88.0

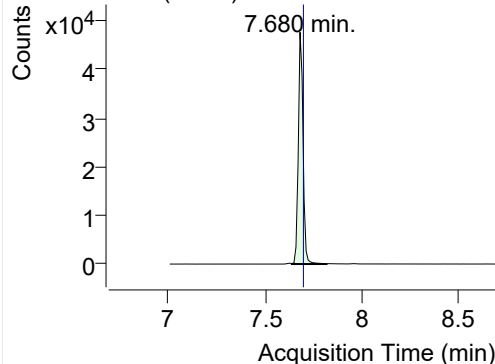


+ SIM (7.576-7.764 min, 18 scans) (**) 220707

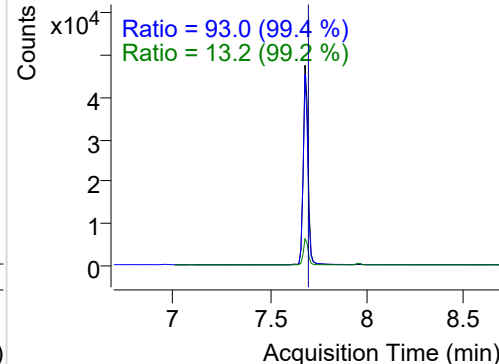


Fluorene

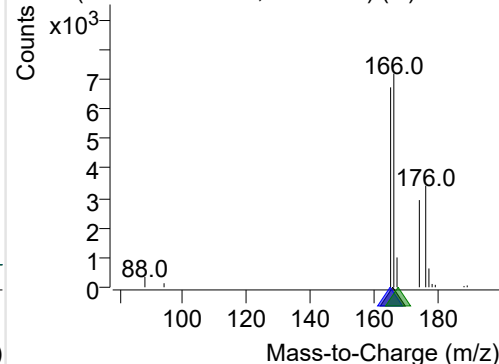
+ Selected Ion (166.0) 220707-PAHs-007.D



166.0, 165.0, 167.0

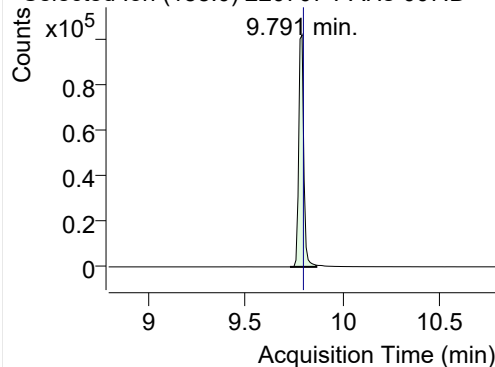


+ SIM (7.638-7.816 min, 18 scans) (**) 220707

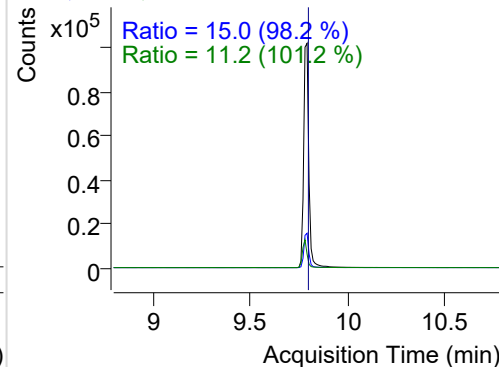


IS-D10-Phenanthrene

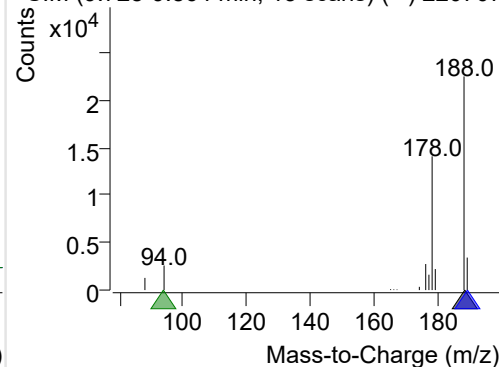
+ Selected Ion (188.0) 220707-PAHs-007.D



188.0, 189.0, 94.0

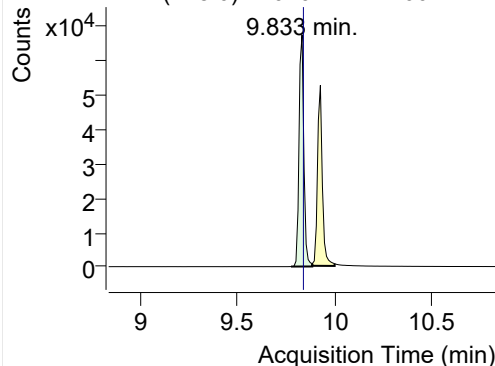


+ SIM (9.728-9.864 min, 13 scans) (**) 220707

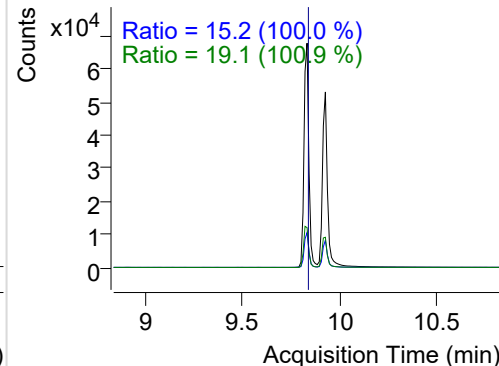


Phenanthrene

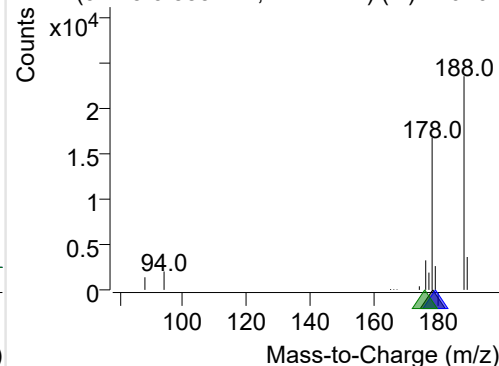
+ Selected Ion (178.0) 220707-PAHs-007.D



178.0, 179.0, 176.0

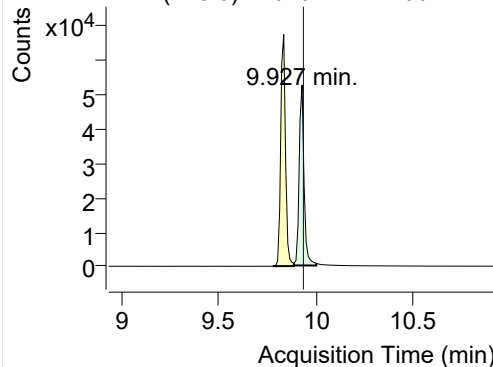


+ SIM (9.775-9.885 min, 11 scans) (**) 220707

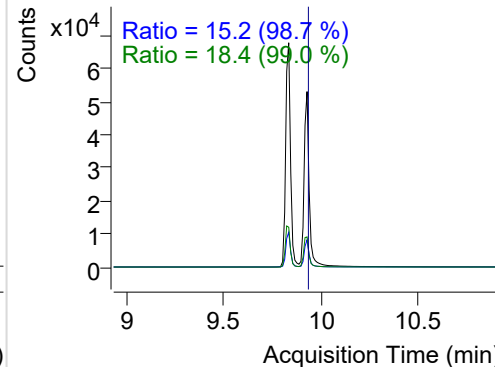


Anthracene

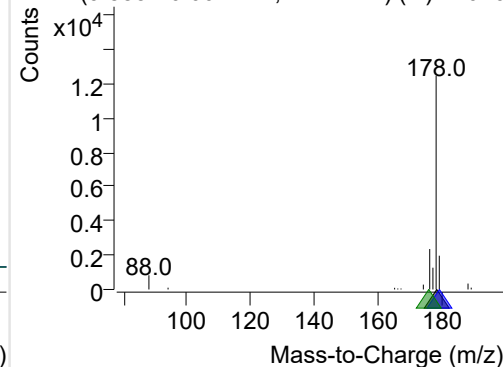
+ Selected Ion (178.0) 220707-PAHs-007.D



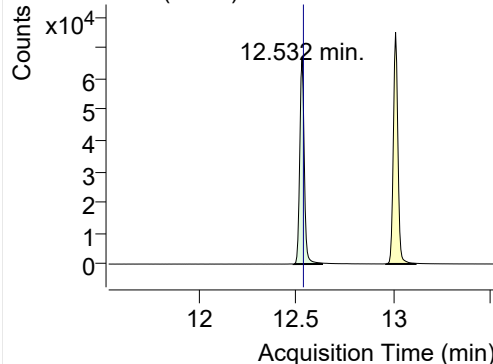
178.0, 179.0, 176.0



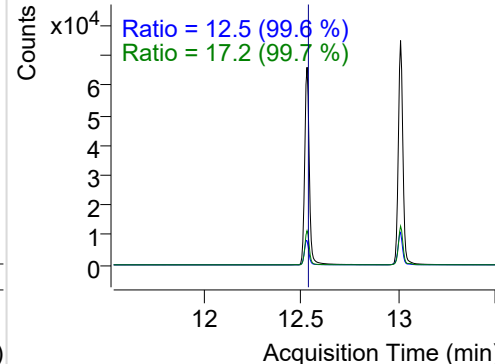
+ SIM (9.885-10.001 min, 12 scans) (**) 22070

**Fluoranthene**

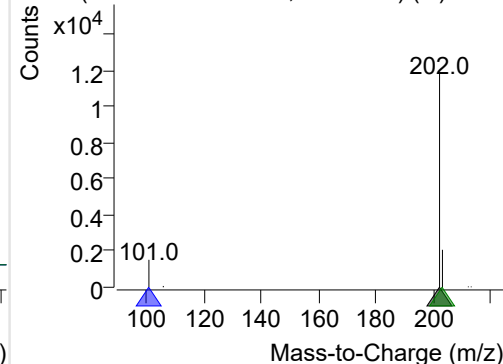
+ Selected Ion (202.0) 220707-PAHs-007.D



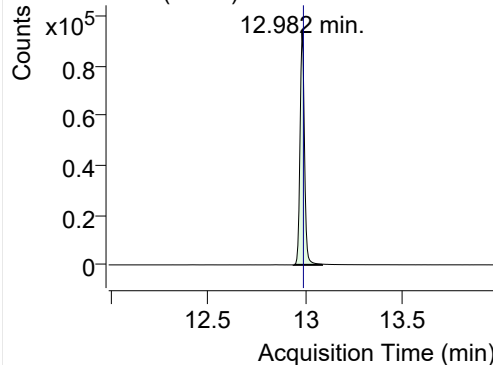
202.0, 101.0, 203.0



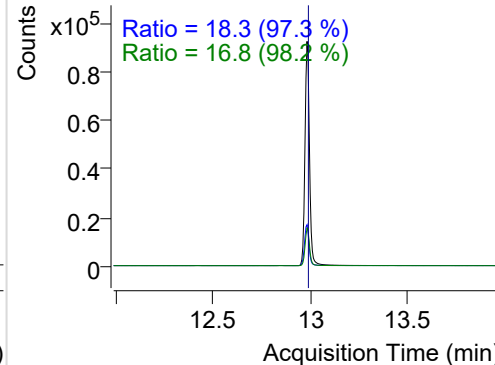
+ SIM (12.488-12.635 min, 28 scans) (**) 2207

**LSS-D10-Pyrene**

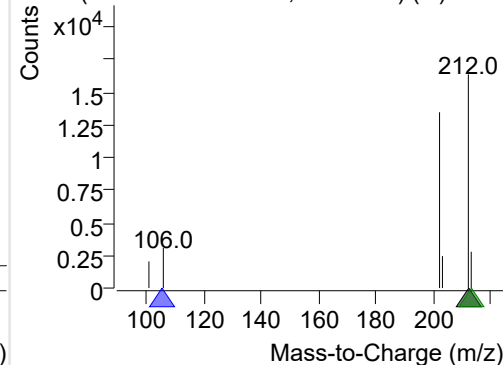
+ Selected Ion (212.0) 220707-PAHs-007.D



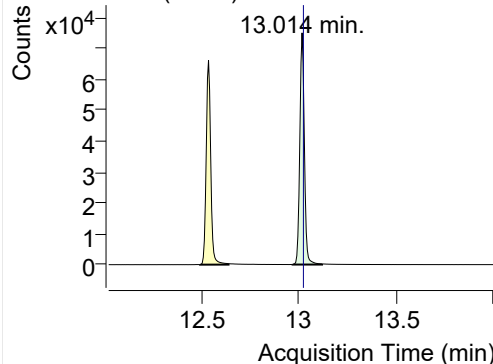
212.0, 106.0, 213.0



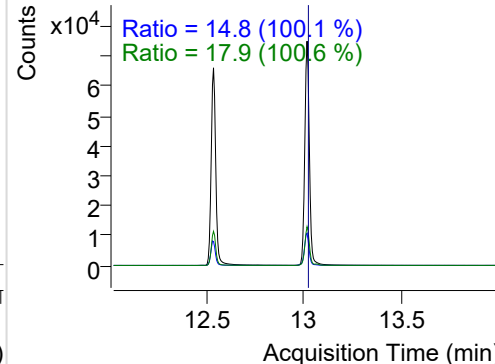
+ SIM (12.938-13.085 min, 28 scans) (**) 2207

**Pyrene**

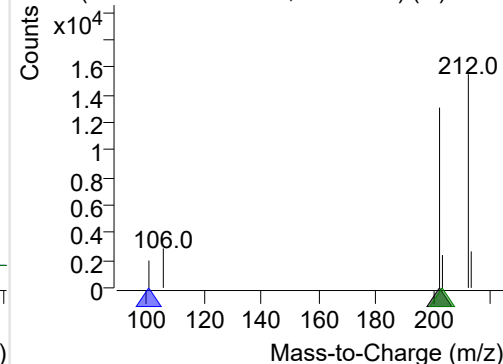
+ Selected Ion (202.0) 220707-PAHs-007.D



202.0, 101.0, 203.0

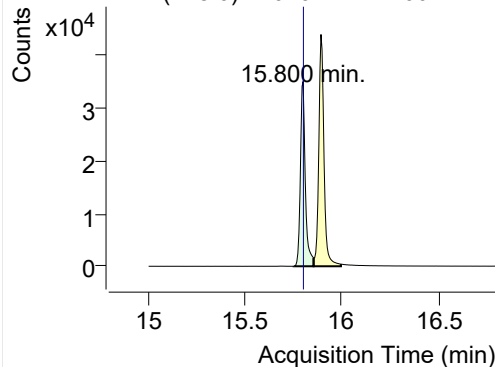


+ SIM (12.965-13.117 min, 29 scans) (**) 2207

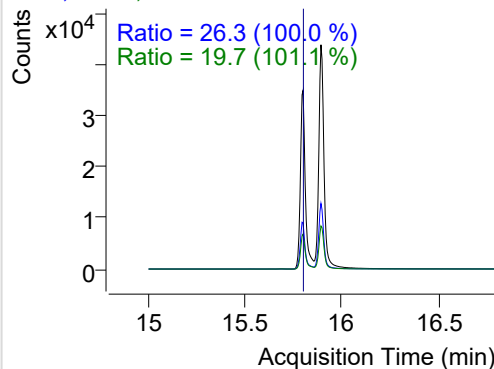


Benz(a)anthracene

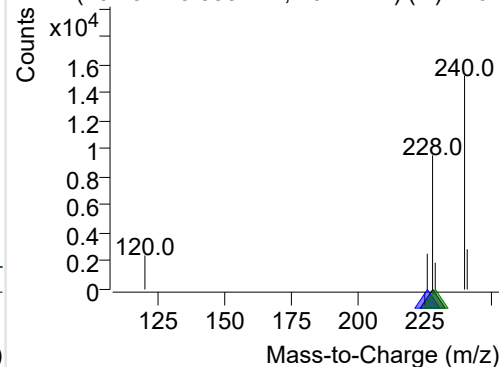
+ Selected Ion (228.0) 220707-PAHs-007.D



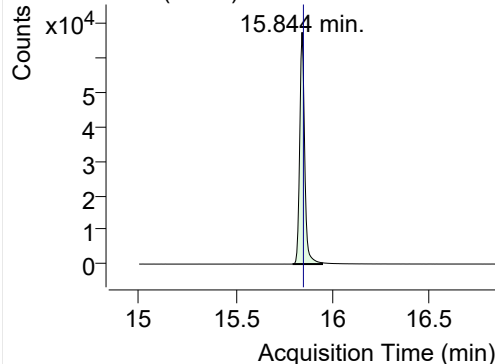
228.0, 226.0, 229.0



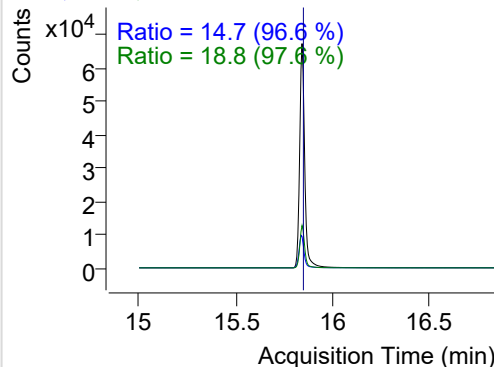
+ SIM (15.752-15.855 min, 20 scans) (**) 2207

**IS-D12-Chrysene**

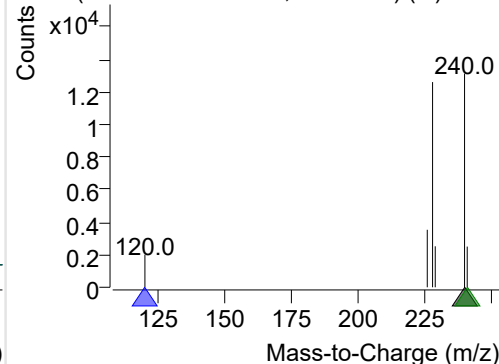
+ Selected Ion (240.0) 220707-PAHs-007.D



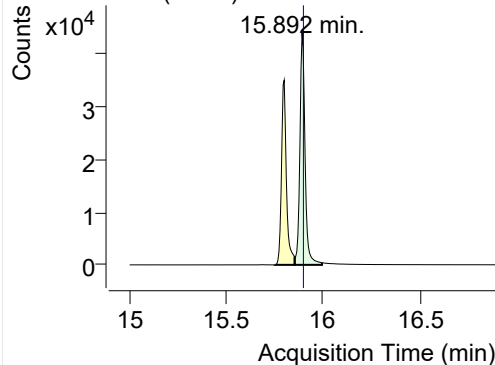
240.0, 120.0, 241.0



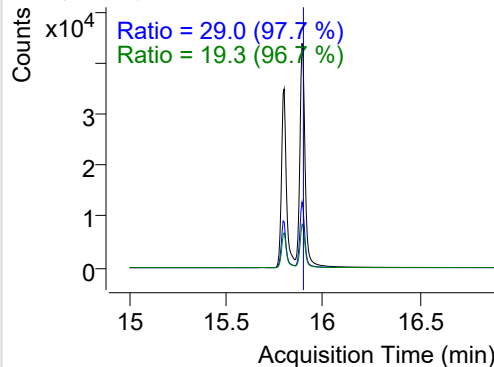
+ SIM (15.795-15.947 min, 28 scans) (**) 2207

**Chrysene**

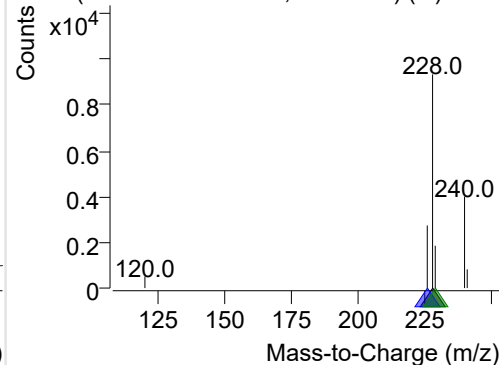
+ Selected Ion (228.0) 220707-PAHs-007.D



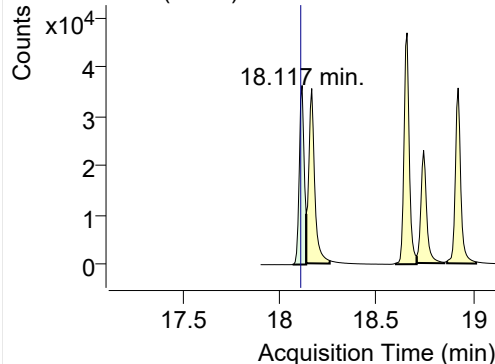
228.0, 226.0, 229.0



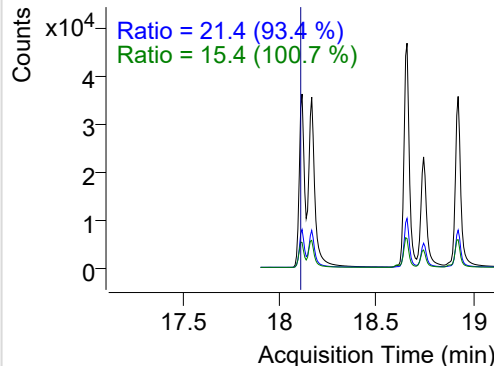
+ SIM (15.855-15.995 min, 27 scans) (**) 2207

**Benzo(b)fluoranthene**

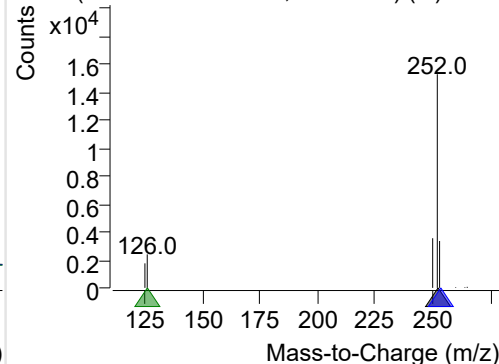
+ Selected Ion (252.0) 220707-PAHs-007.D



252.0, 253.0, 126.0

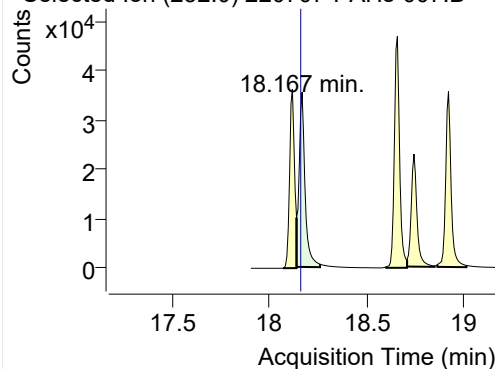


+ SIM (18.069-18.139 min, 10 scans) (**) 2207

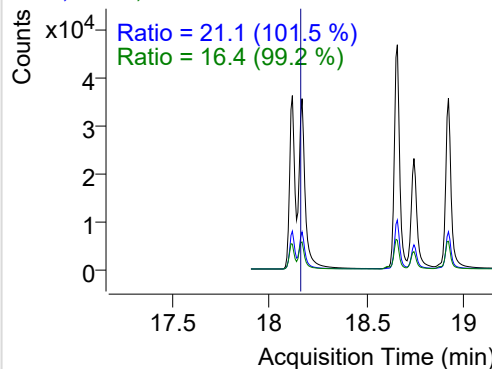


Benzo(k)fluoranthene

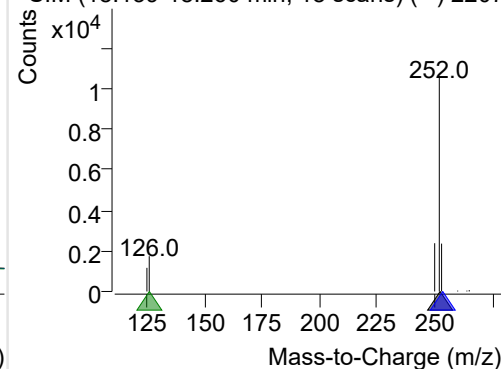
+ Selected Ion (252.0) 220707-PAHs-007.D



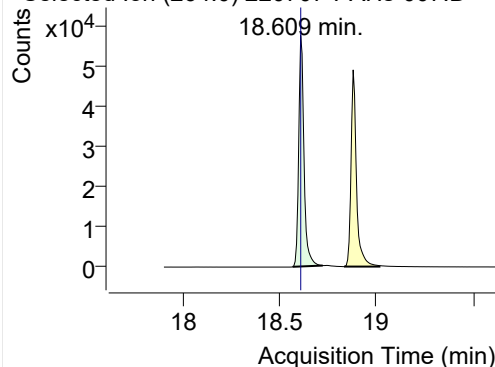
252.0, 253.0, 126.0



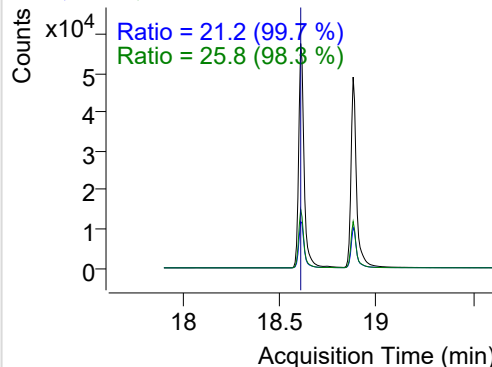
+ SIM (18.139-18.260 min, 18 scans) (**) 2207

**SS-D12-Benzo(e)pyrene**

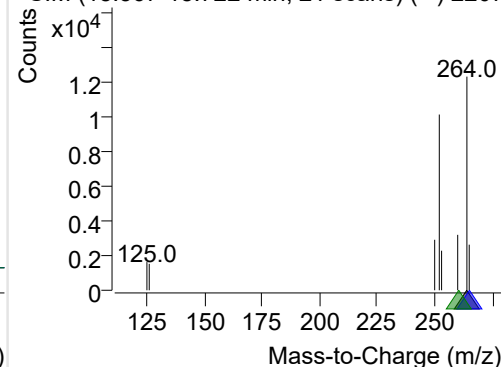
+ Selected Ion (264.0) 220707-PAHs-007.D



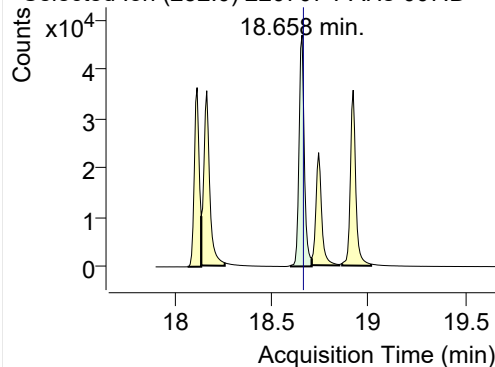
264.0, 265.0, 260.0



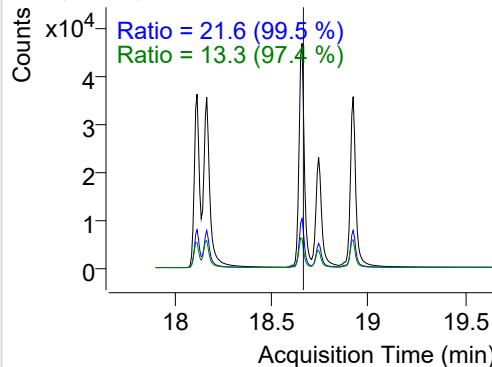
+ SIM (18.567-18.722 min, 21 scans) (**) 2207

**Benzo(e)pyrene**

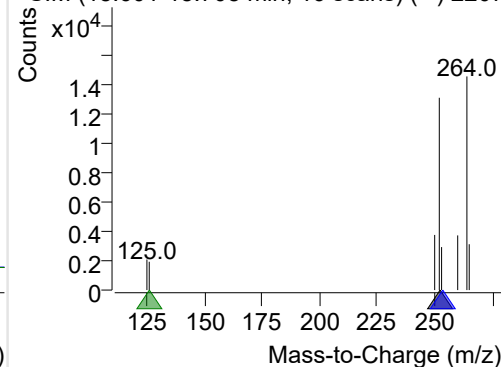
+ Selected Ion (252.0) 220707-PAHs-007.D



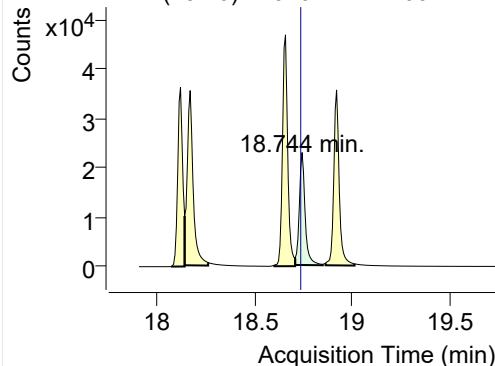
252.0, 253.0, 126.0



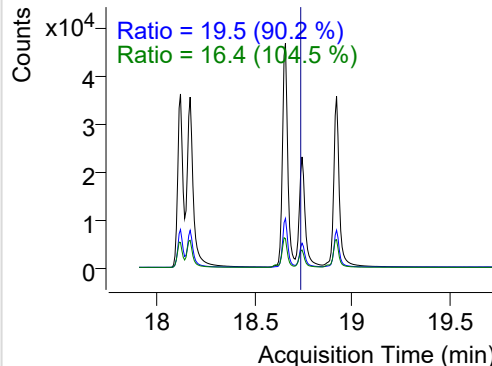
+ SIM (18.601-18.708 min, 16 scans) (**) 2207

**Benzo(a)pyrene**

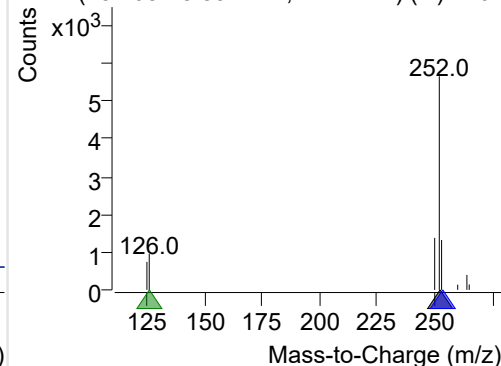
+ Selected Ion (252.0) 220707-PAHs-007.D



252.0, 253.0, 126.0

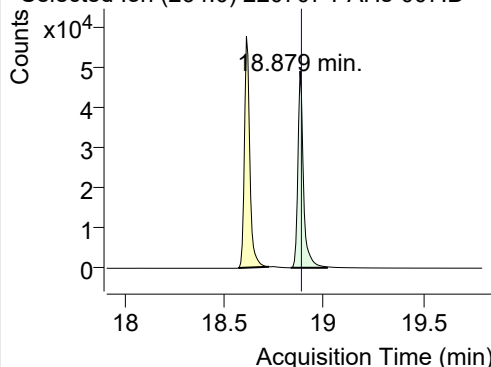


+ SIM (18.708-18.851 min, 21 scans) (**) 2207

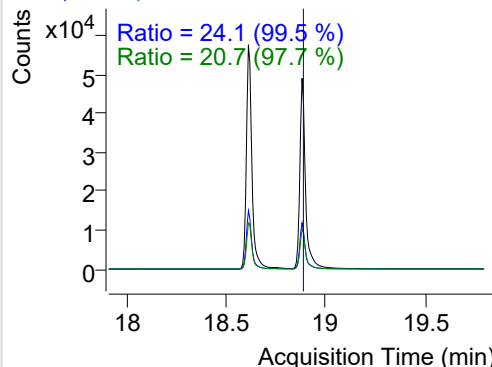


IS-D12-Perylene

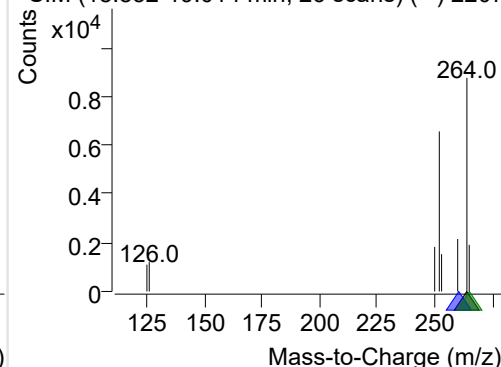
+ Selected Ion (264.0) 220707-PAHs-007.D



264.0, 260.0, 265.0

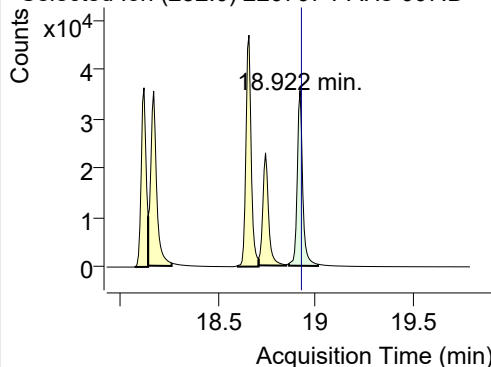


+ SIM (18.832-19.014 min, 26 scans) (**) 2207

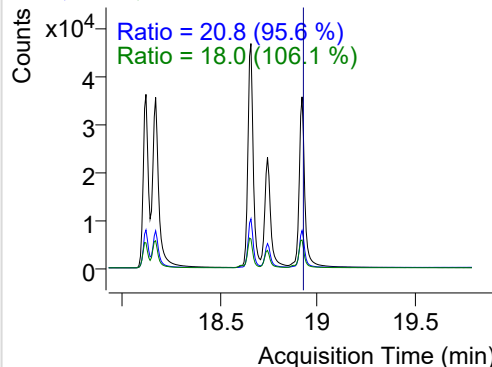


Perylene

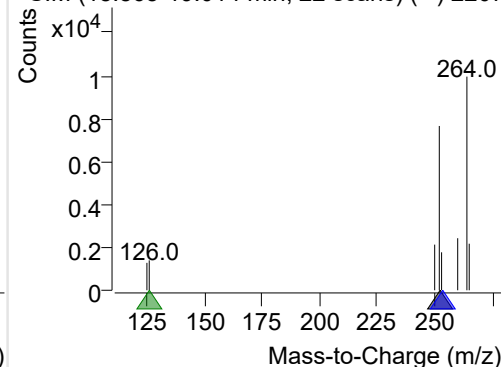
+ Selected Ion (252.0) 220707-PAHs-007.D



252.0, 253.0, 126.0

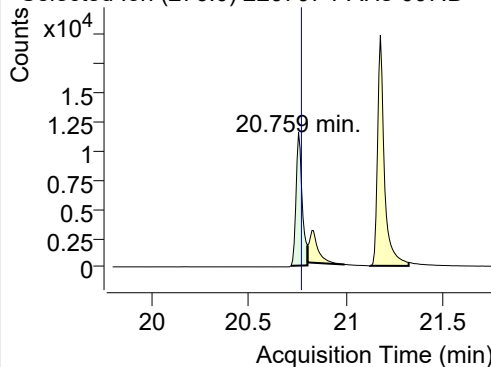


+ SIM (18.865-19.014 min, 22 scans) (**) 2207

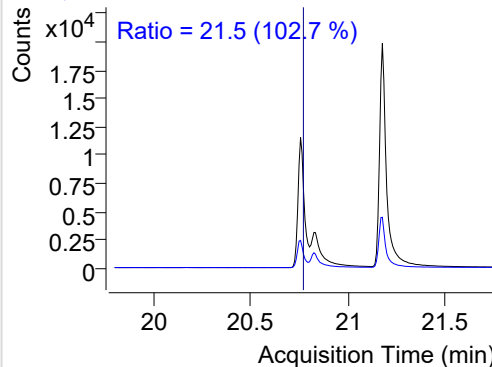


Indeno(1,2,3-c,d)pyrene

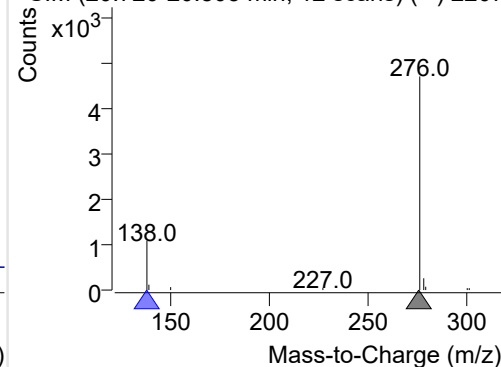
+ Selected Ion (276.0) 220707-PAHs-007.D



276.0, 138.0

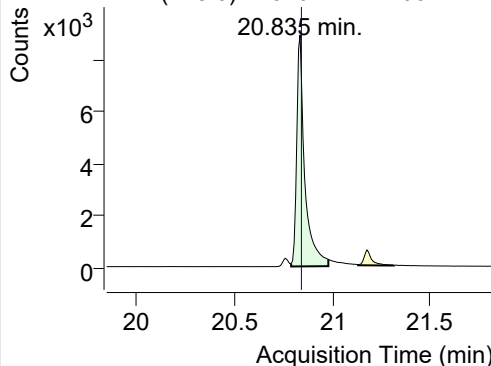


+ SIM (20.720-20.805 min, 12 scans) (**) 2207

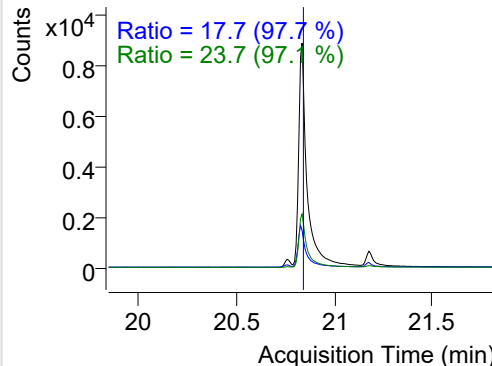


Dibenz(a,h)anthracene

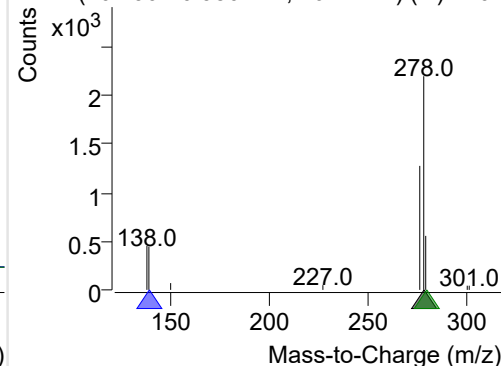
+ Selected Ion (278.0) 220707-PAHs-007.D



278.0, 139.0, 279.0

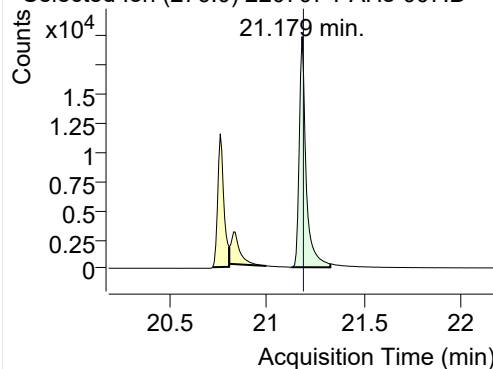


+ SIM (20.790-20.980 min, 26 scans) (**) 2207

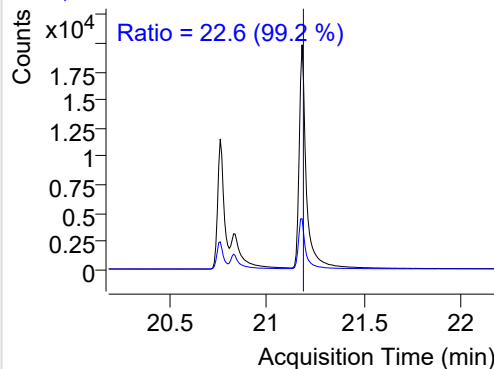


Benzo(g,h,i)perylene

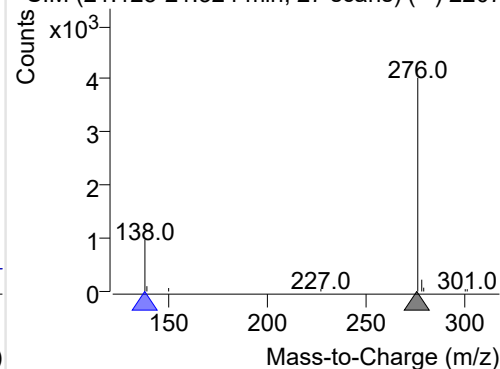
+ Selected Ion (276.0) 220707-PAHs-007.D



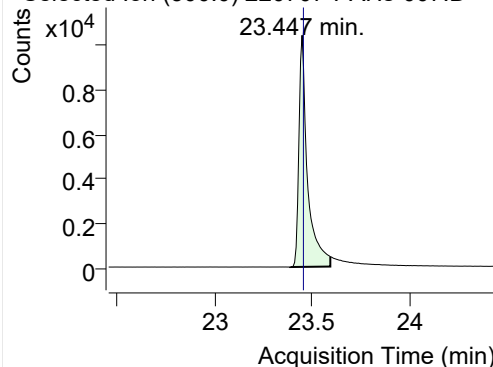
276.0, 138.0



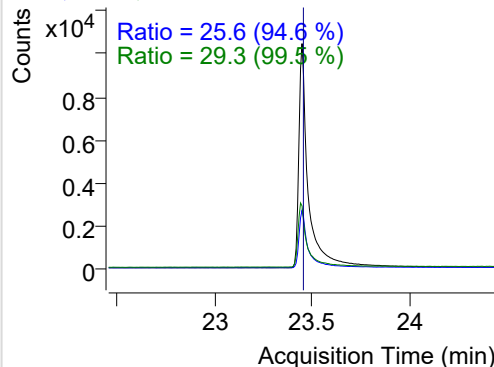
+ SIM (21.125-21.324 min, 27 scans) (**) 2207

**Coronene**

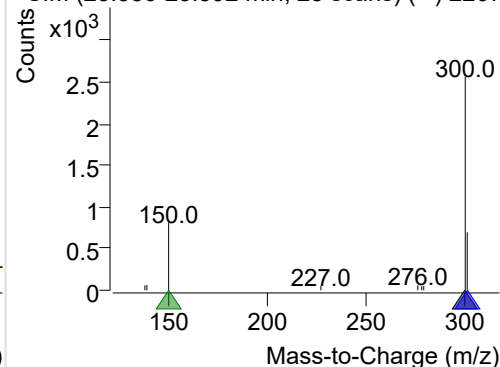
+ Selected Ion (300.0) 220707-PAHs-007.D



300.0, 301.0, 150.0



+ SIM (23.386-23.592 min, 28 scans) (**) 2207



Quantitative Analysis Sample Based Report

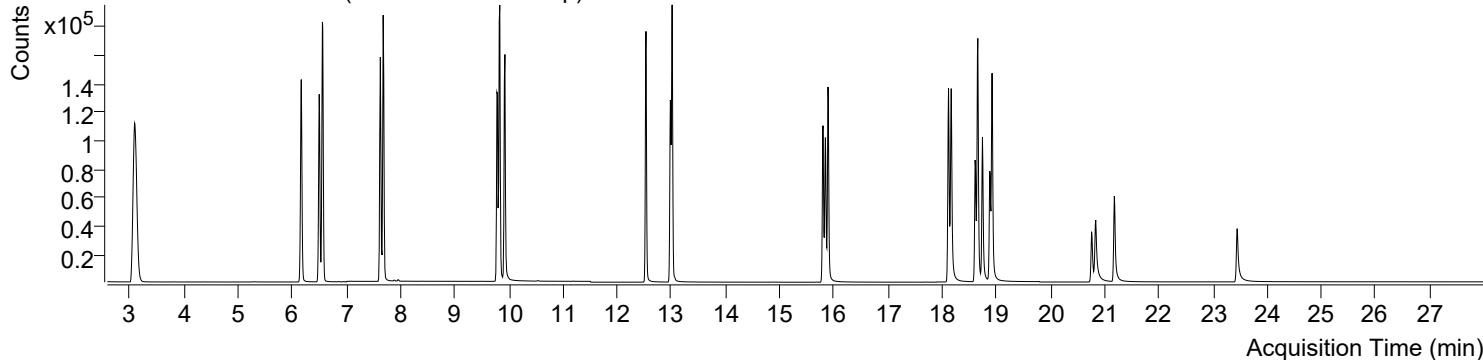


Trusted Answers

| | | | |
|---------------------------|--|-----------------------|------------------------|
| Batch Data Path File Name | D:\MassHunter\GCMS\1\data\PAHs\220707-PAHs-Sample\QuantResults\220707-PAHs-Quant.batch.bin | | |
| Analysis Time Stamp | 2022-07-09 오전 11:12:52 | Analyst Name | DESKTOP-86B7UPG\5975MS |
| Report Generation Time | 2022-07-09 오전 11:13:20 | Report Generator Name | DESKTOP-86B7UPG\5975MS |
| Calibration Last Update | 2022-07-09 오전 11:04:15 | Batch State | Processed |
| Analyze Quant Version | 10.2 | Report Quant Version | 10.2 |
| Acq. Date-Time | 2022-07-07 오후 4:57:10 | Data File | 220707-PAHs-008.D |
| Type | Sample | Name | PAHs-19mix-STD-1p |
| Dil. | 1 | Acq. Method File | PAHs 19mix-Method |

Sample Chromatogram

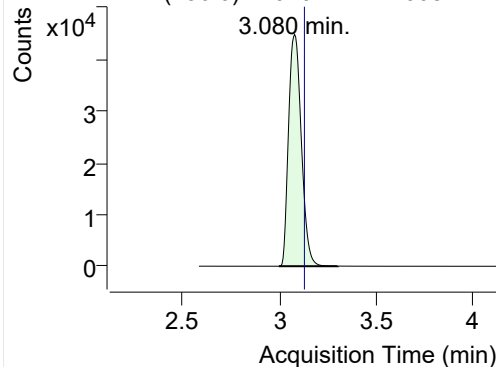
+ TIC SIM 220707-PAHs-008.D (PAHs-19mix-STD-1p)



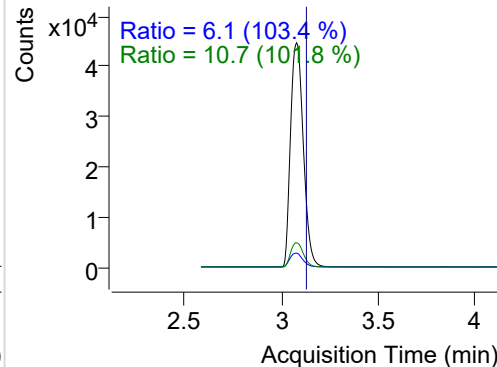
| Name | RT | Transition | Resp. | Height | Final Conc. Units | Ratio |
|-------------------------|--------|------------|--------|----------|-------------------|-------|
| IS-D8-Naphthalene | 3.080 | 136.0 | 204339 | 44701.62 | ND ng/ml | 10.7 |
| Naphthalene | 3.101 | 128.0 | 246123 | 53539.27 | ND ng/ml | 12.7 |
| Acenaphthylene | 6.167 | 152.0 | 203808 | 107300.2 | ND ng/ml | 19.2 |
| IS-D10-Acenaphthene | 6.498 | 164.0 | 110799 | 63107.61 | ND ng/ml | 96.1 |
| Acenaphthene | 6.564 | 154.0 | 120551 | 65696.31 | ND ng/ml | 107.0 |
| LSS-D10-Fluorene | 7.627 | 176.0 | 116715 | 72352.95 | ND ng/ml | 92.3 |
| Fluorene | 7.680 | 166.0 | 149718 | 89815.03 | ND ng/ml | 92.6 |
| IS-D10-Phenanthrene | 9.790 | 188.0 | 188497 | 107800.7 | ND ng/ml | 15.0 |
| Phenanthrene | 9.832 | 178.0 | 219412 | 129125.5 | ND ng/ml | 19.1 |
| Anthracene | 9.927 | 178.0 | 184077 | 108814.1 | ND ng/ml | 18.3 |
| Fluoranthene | 12.532 | 202.0 | 211896 | 136723.6 | ND ng/ml | 17.3 |
| LSS-D10-Pyrene | 12.981 | 212.0 | 149745 | 93420.87 | ND ng/ml | 18.4 |
| Pyrene | 13.014 | 202.0 | 229756 | 145296.3 | ND ng/ml | 17.7 |
| Benz(a)anthracene | 15.800 | 228.0 | 133373 | 75801.90 | ND ng/ml | 26.3 |
| IS-D12-Chrysene | 15.843 | 240.0 | 128051 | 72429.76 | ND ng/ml | 18.9 |
| Chrysene | 15.892 | 228.0 | 159693 | 90781.57 | ND ng/ml | 28.9 |
| Benzo(b)fluoranthene | 18.117 | 252.0 | 133818 | 80679.10 | ND ng/ml | 23.0 |
| Benzo(k)fluoranthene | 18.167 | 252.0 | 171195 | 79791.43 | ND ng/ml | 20.0 |
| SS-D12-Benzo(e)pyrene | 18.608 | 264.0 | 112070 | 57669.12 | ND ng/ml | 25.3 |
| Benzo(e)pyrene | 18.658 | 252.0 | 171675 | 94011.40 | ND ng/ml | 21.6 |
| Benzo(a)pyrene | 18.744 | 252.0 | 111969 | 58539.12 | ND ng/ml | 20.2 |
| IS-D12-Perylene | 18.879 | 264.0 | 103650 | 51232.50 | ND ng/ml | 24.1 |
| Perylene | 18.922 | 252.0 | 145466 | 76663.67 | ND ng/ml | 21.1 |
| Indeno(1,2,3-c,d)pyrene | 20.759 | 276.0 | 61097 | 28173.95 | ND ng/ml | 20.7 |
| Dibenz(a,h)anthracene | 20.835 | 278.0 | 64103 | 23083.49 | ND ng/ml | 23.6 |
| Benzo(g,h,i)perylene | 21.179 | 276.0 | 111096 | 47404.95 | ND ng/ml | 22.3 |
| Coronene | 23.446 | 300.0 | 71259 | 24443.48 | ND ng/ml | 29.6 |

IS-D8-Naphthalene

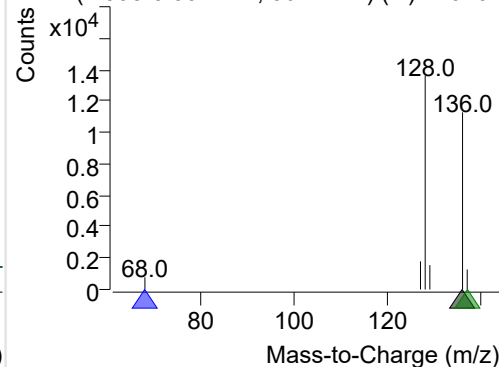
+ Selected Ion (136.0) 220707-PAHs-008.D



136.0, 68.0, 137.0

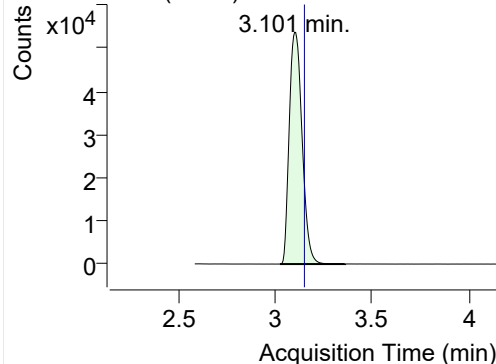


+ SIM (2.998-3.302 min, 56 scans) (**) 220707

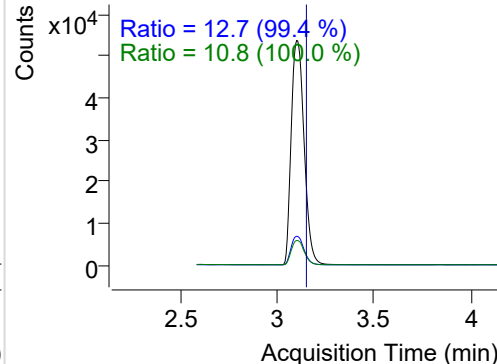


Naphthalene

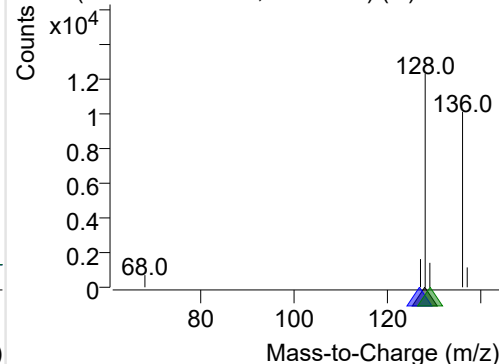
+ Selected Ion (128.0) 220707-PAHs-008.D



128.0, 127.0, 129.0

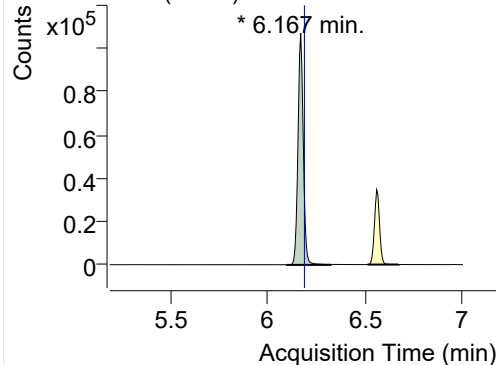


+ SIM (3.026-3.361 min, 62 scans) (**) 220707

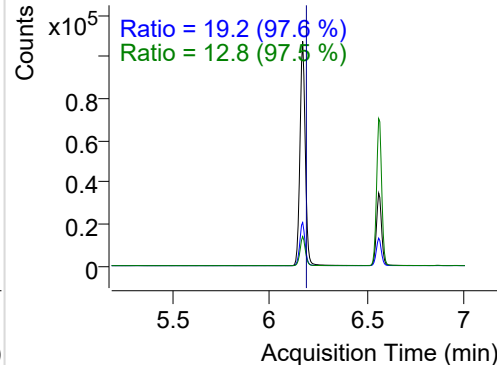


Acenaphthylene

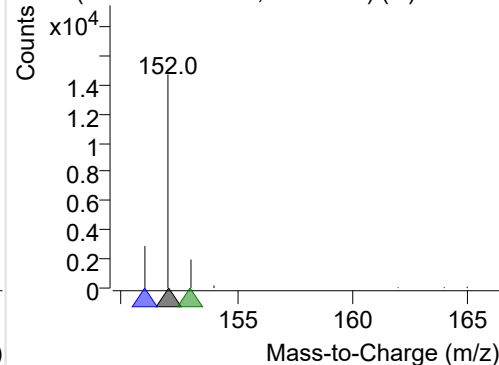
+ Selected Ion (152.0) 220707-PAHs-008.D



152.0, 151.0, 153.0

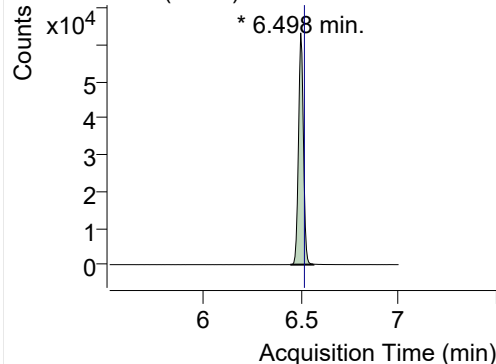


+ SIM (6.096-6.321 min, 39 scans) (**) 220707

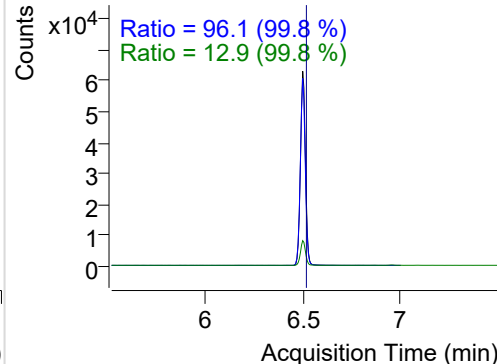


IS-D10-Acenaphthene

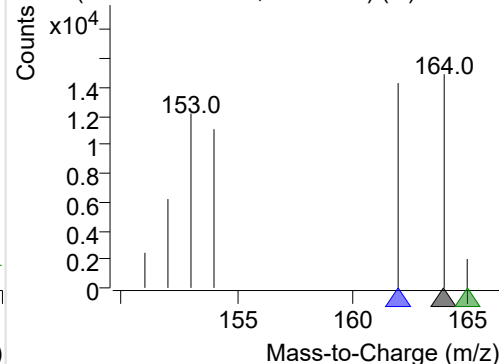
+ Selected Ion (164.0) 220707-PAHs-008.D



164.0, 162.0, 165.0

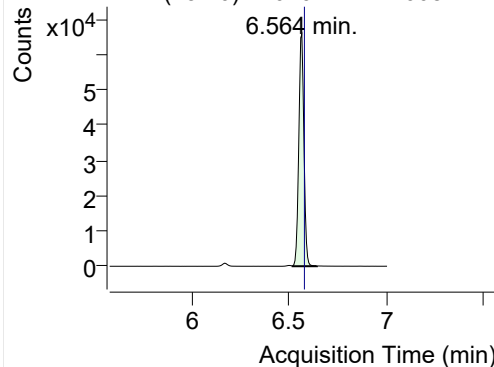


+ SIM (6.445-6.564 min, 21 scans) (**) 220707

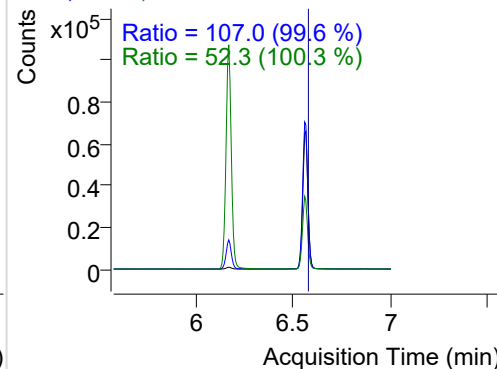


Acenaphthene

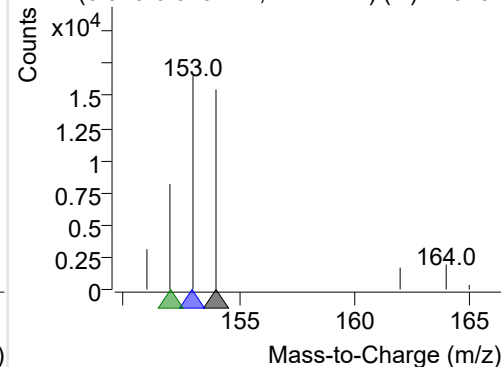
+ Selected Ion (154.0) 220707-PAHs-008.D



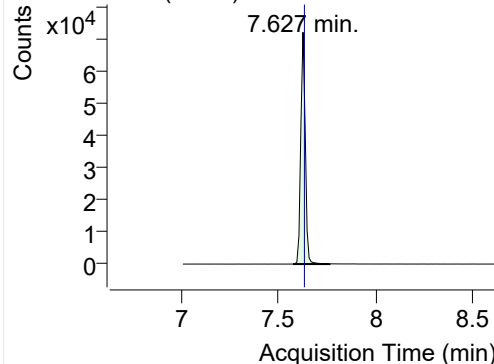
154.0, 153.0, 152.0



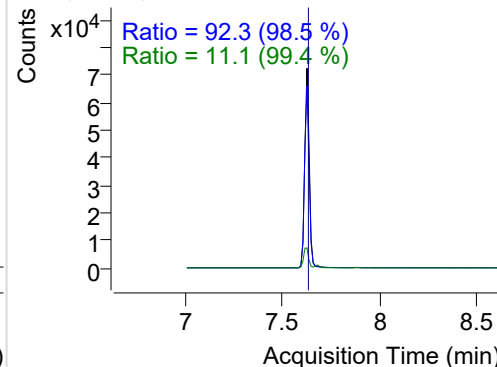
+ SIM (6.516-6.640 min, 22 scans) (**) 220707

**LSS-D10-Fluorene**

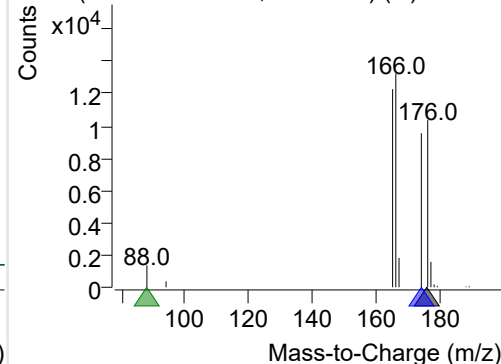
+ Selected Ion (176.0) 220707-PAHs-008.D



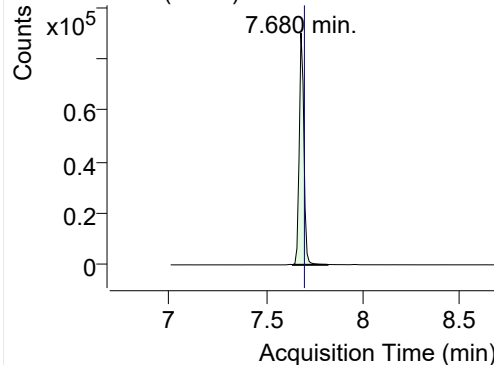
176.0, 174.0, 88.0



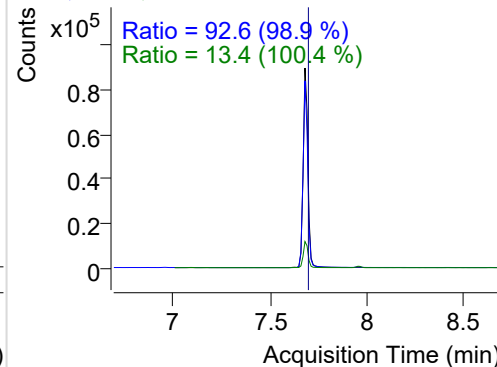
+ SIM (7.575-7.764 min, 18 scans) (**) 220707

**Fluorene**

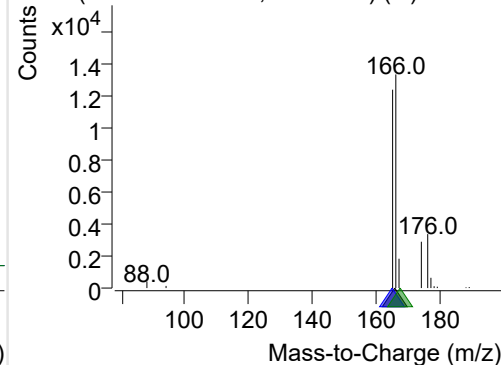
+ Selected Ion (166.0) 220707-PAHs-008.D



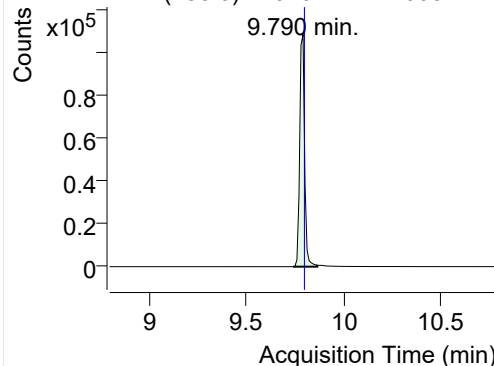
166.0, 165.0, 167.0



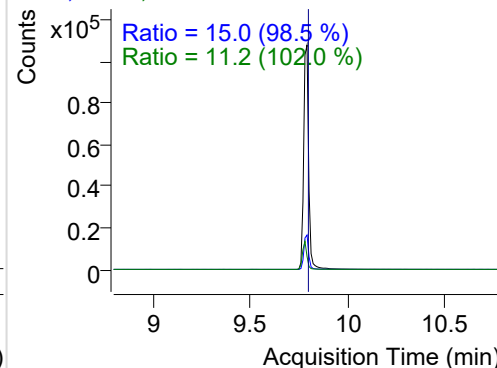
+ SIM (7.638-7.816 min, 18 scans) (**) 220707

**IS-D10-Phenanthrene**

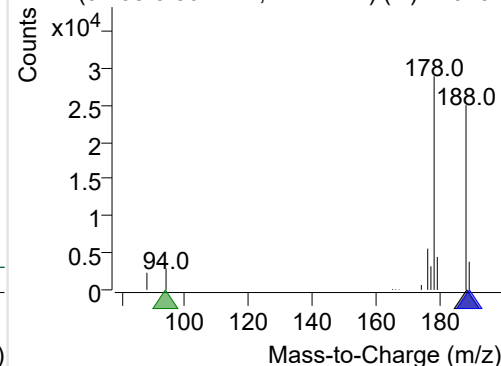
+ Selected Ion (188.0) 220707-PAHs-008.D



188.0, 189.0, 94.0

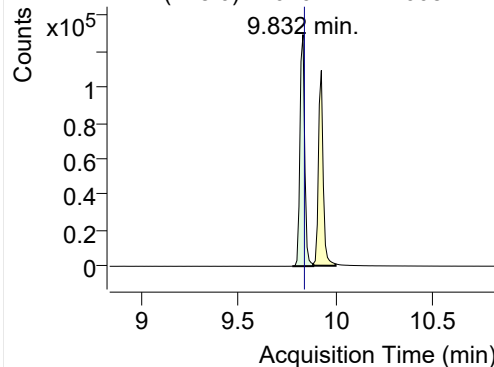


+ SIM (9.738-9.864 min, 12 scans) (**) 220707

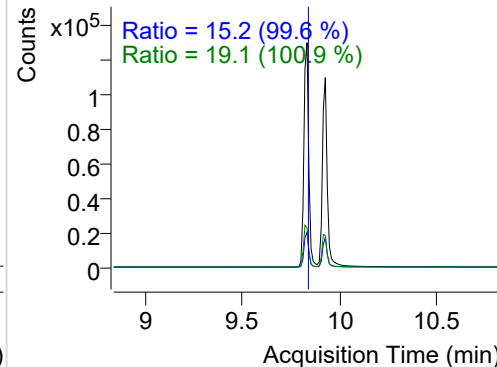


Phenanthrene

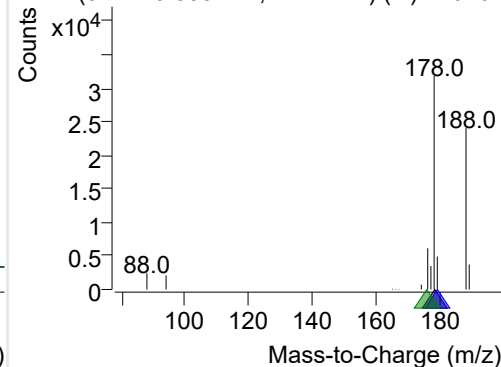
+ Selected Ion (178.0) 220707-PAHs-008.D



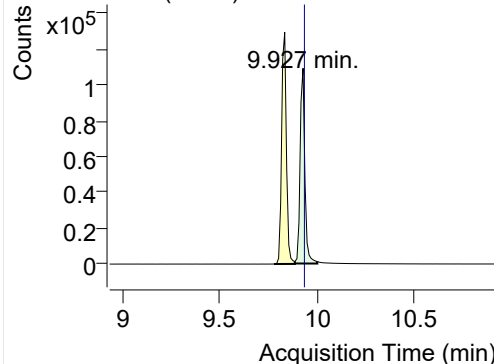
178.0, 179.0, 176.0



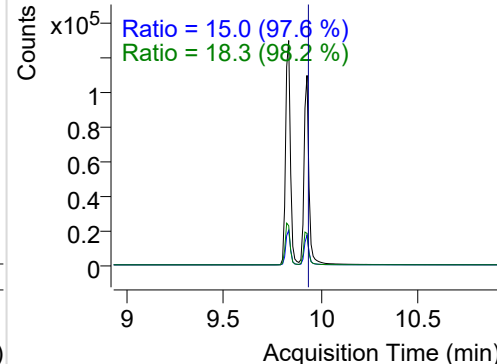
+ SIM (9.777-9.885 min, 11 scans) (**) 220707

**Anthracene**

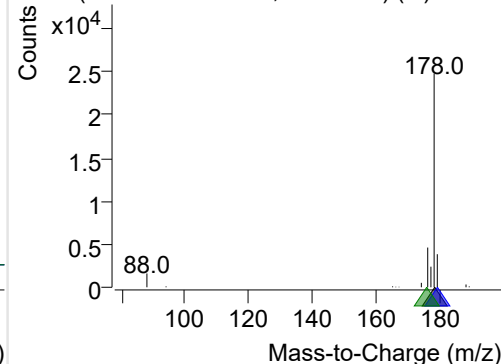
+ Selected Ion (178.0) 220707-PAHs-008.D



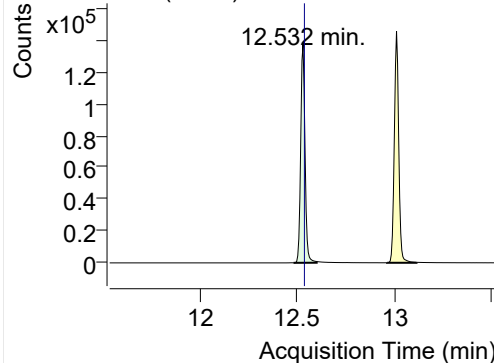
178.0, 179.0, 176.0



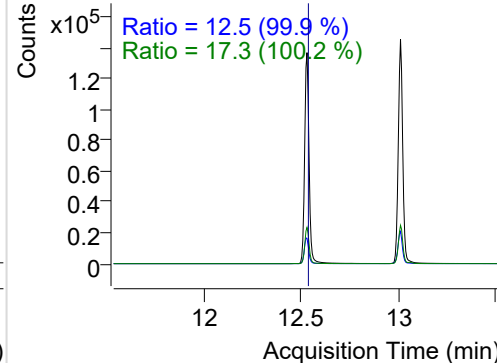
+ SIM (9.885-10.000 min, 12 scans) (**) 220707

**Fluoranthene**

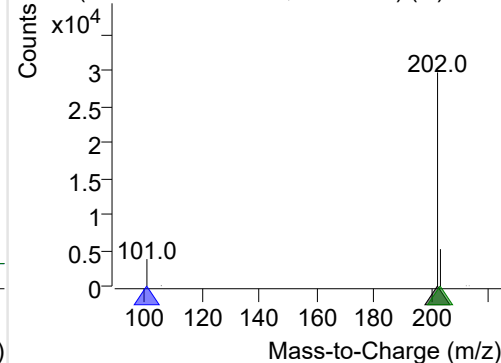
+ Selected Ion (202.0) 220707-PAHs-008.D



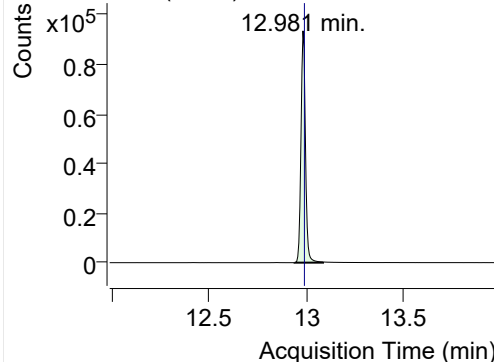
202.0, 101.0, 203.0



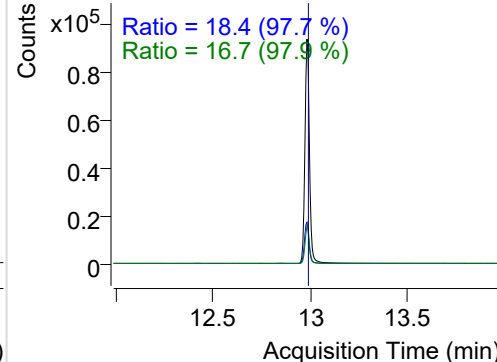
+ SIM (12.483-12.602 min, 22 scans) (**) 220707

**LSS-D10-Pyrene**

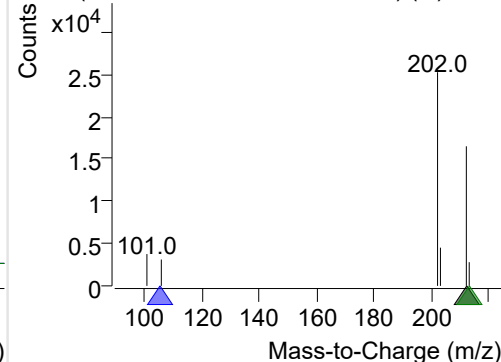
+ Selected Ion (212.0) 220707-PAHs-008.D



212.0, 106.0, 213.0

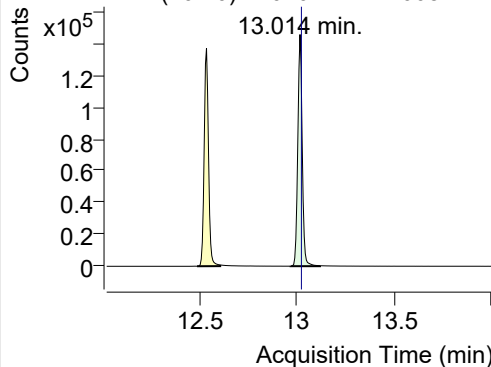


+ SIM (12.938-13.084 min, 28 scans) (**) 220707

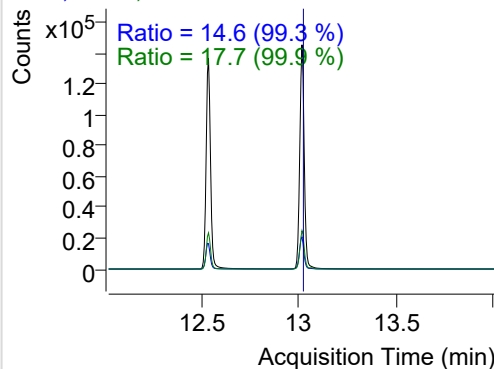


Pyrene

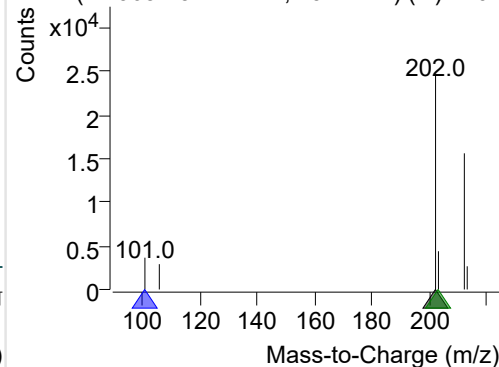
+ Selected Ion (202.0) 220707-PAHs-008.D



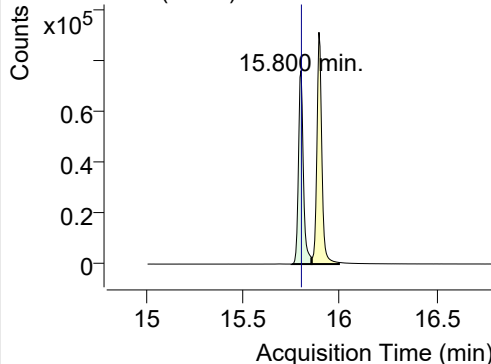
202.0, 101.0, 203.0



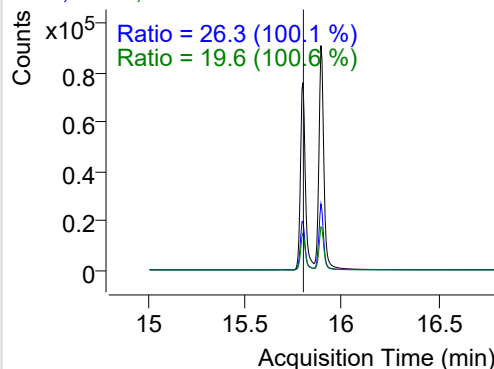
+ SIM (12.965-13.117 min, 29 scans) (**) 2207

**Benz(a)anthracene**

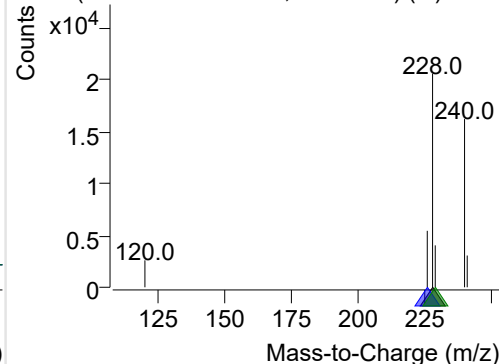
+ Selected Ion (228.0) 220707-PAHs-008.D



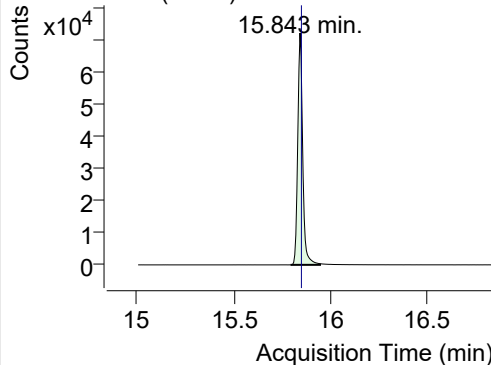
228.0, 226.0, 229.0



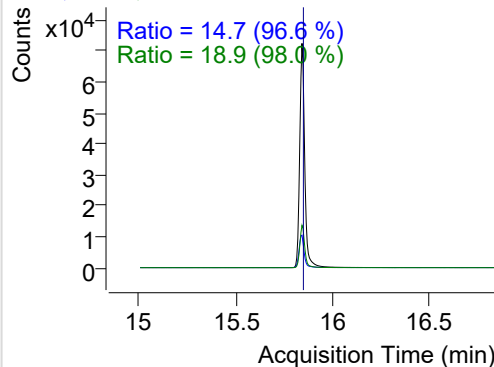
+ SIM (15.751-15.854 min, 20 scans) (**) 2207

**IS-D12-Chrysene**

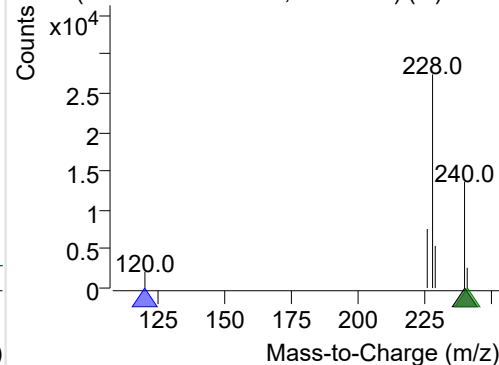
+ Selected Ion (240.0) 220707-PAHs-008.D



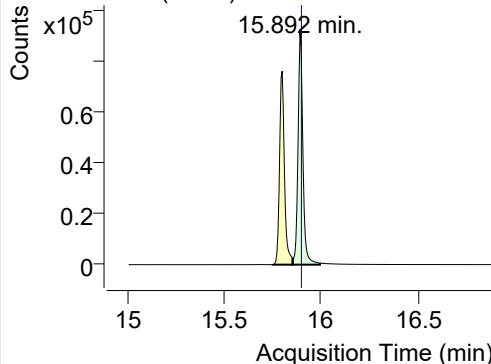
240.0, 120.0, 241.0



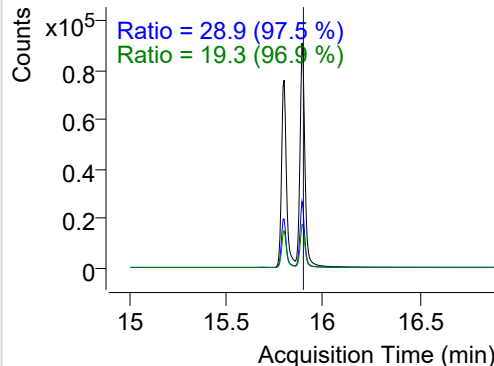
+ SIM (15.795-15.946 min, 29 scans) (**) 2207

**Chrysene**

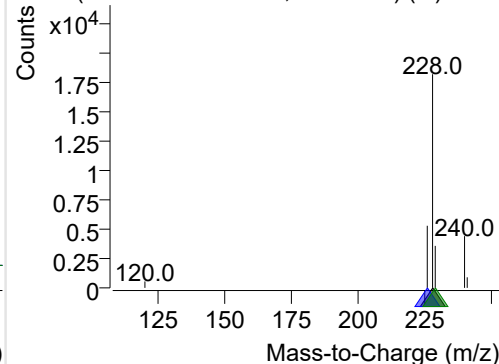
+ Selected Ion (228.0) 220707-PAHs-008.D



228.0, 226.0, 229.0

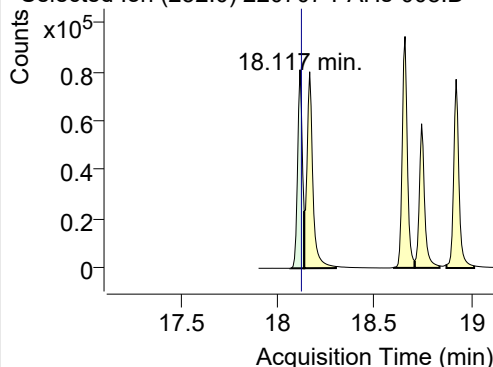


+ SIM (15.854-15.995 min, 27 scans) (**) 2207

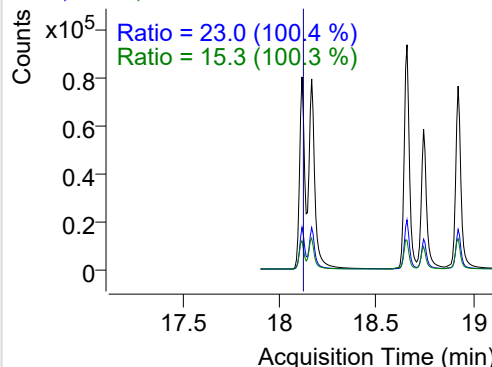


Benzo(b)fluoranthene

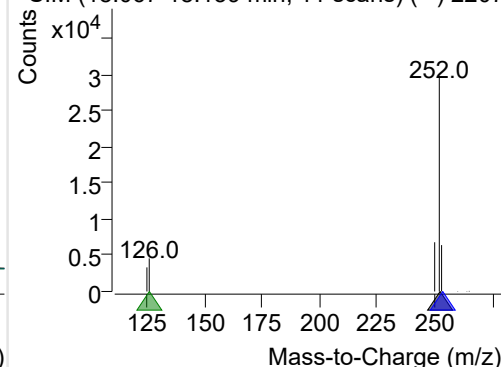
+ Selected Ion (252.0) 220707-PAHs-008.D



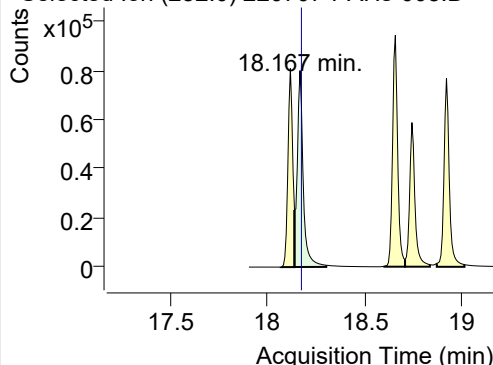
252.0, 253.0, 126.0



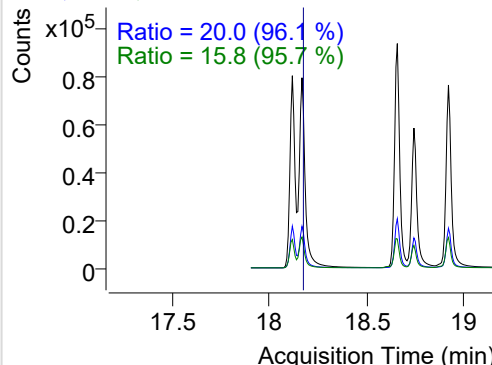
+ SIM (18.067-18.139 min, 11 scans) (**) 2207

**Benzo(k)fluoranthene**

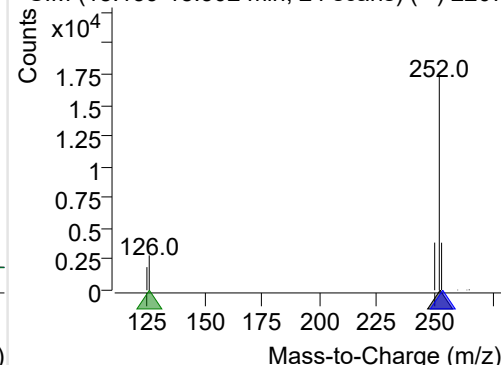
+ Selected Ion (252.0) 220707-PAHs-008.D



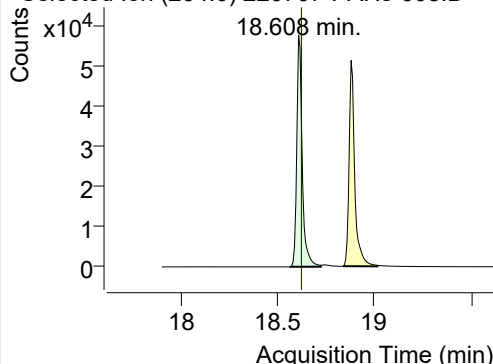
252.0, 253.0, 126.0



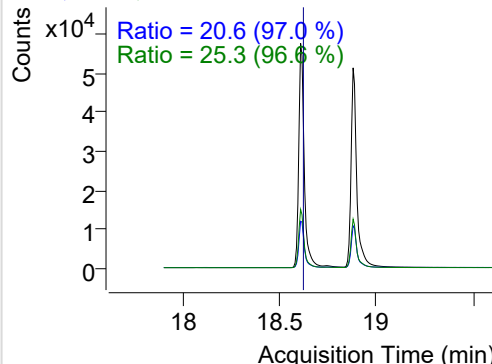
+ SIM (18.139-18.302 min, 24 scans) (**) 2207

**SS-D12-Benzo(e)pyrene**

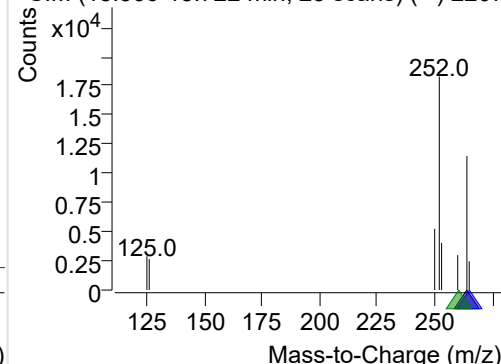
+ Selected Ion (264.0) 220707-PAHs-008.D



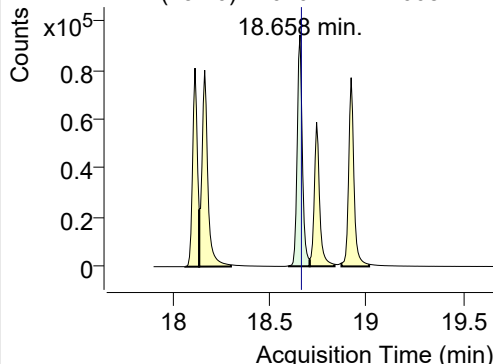
264.0, 265.0, 260.0



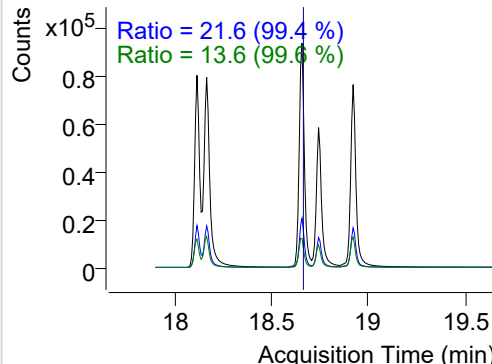
+ SIM (18.566-18.722 min, 23 scans) (**) 2207

**Benzo(e)pyrene**

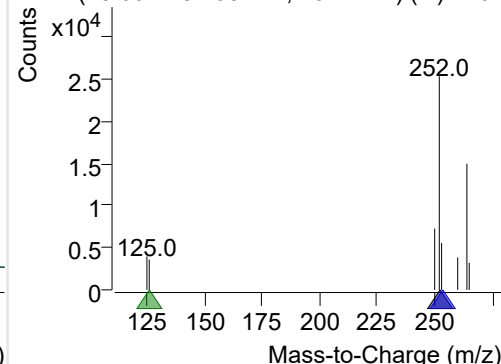
+ Selected Ion (252.0) 220707-PAHs-008.D



252.0, 253.0, 126.0

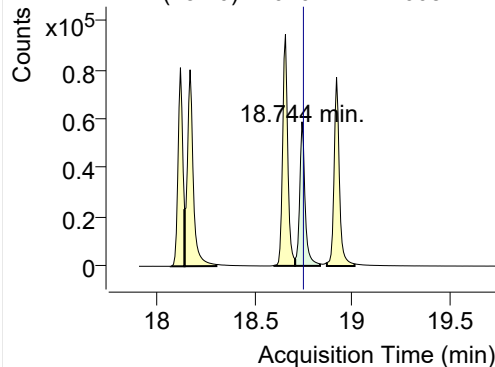


+ SIM (18.601-18.708 min, 16 scans) (**) 2207

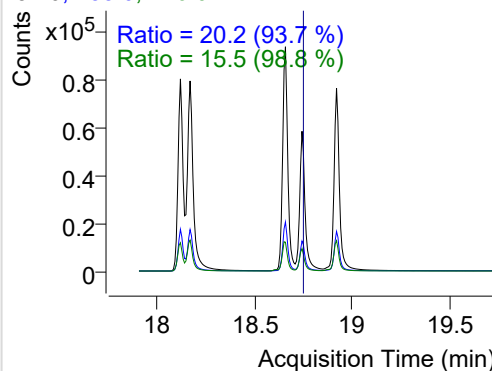


Benzo(a)pyrene

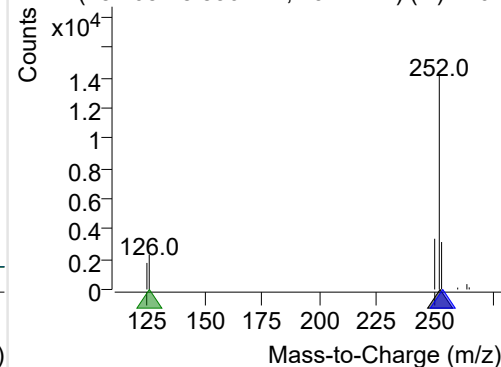
+ Selected Ion (252.0) 220707-PAHs-008.D



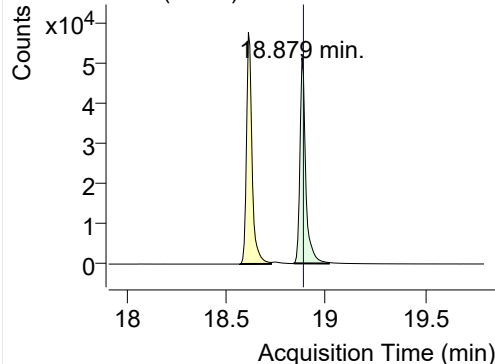
252.0, 253.0, 126.0



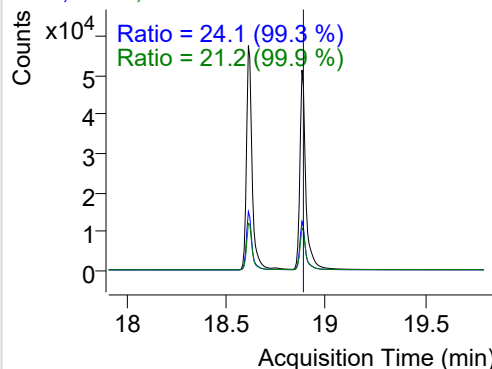
+ SIM (18.708-18.836 min, 19 scans) (**) 2207

**IS-D12-Perylene**

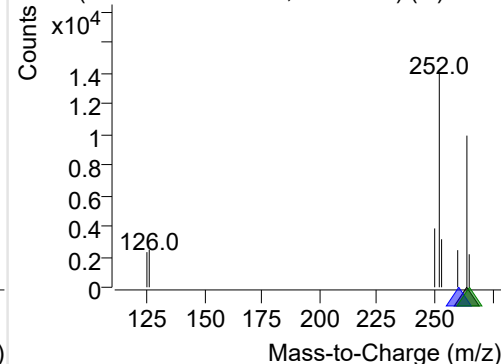
+ Selected Ion (264.0) 220707-PAHs-008.D



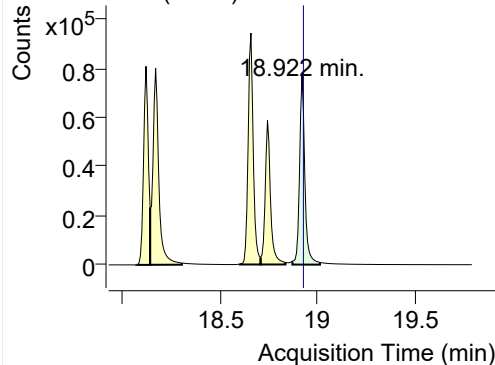
264.0, 260.0, 265.0



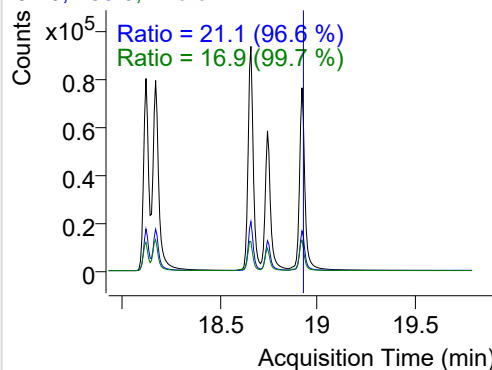
+ SIM (18.837-19.014 min, 25 scans) (**) 2207

**Perylene**

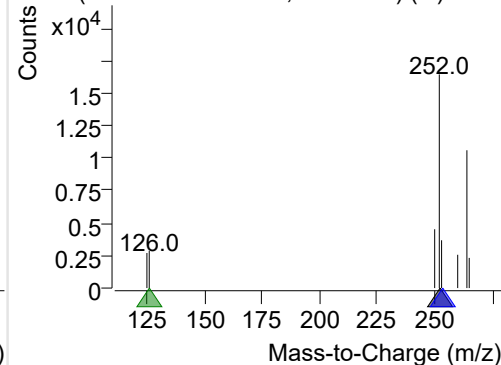
+ Selected Ion (252.0) 220707-PAHs-008.D



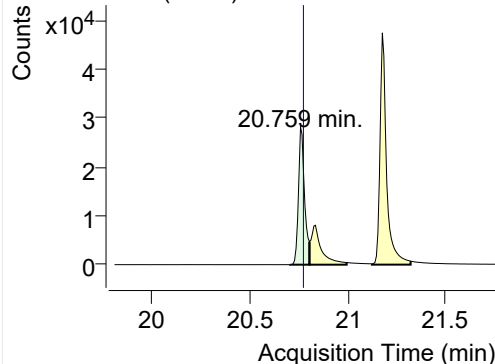
252.0, 253.0, 126.0



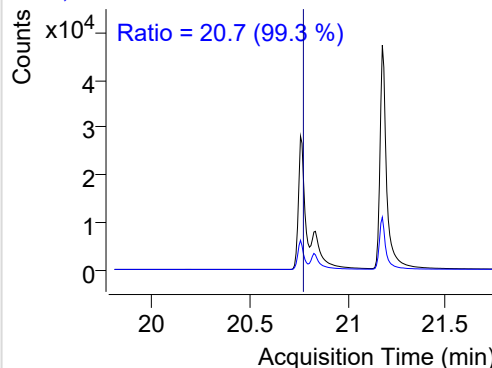
+ SIM (18.872-19.014 min, 21 scans) (**) 2207

**Indeno(1,2,3-c,d)pyrene**

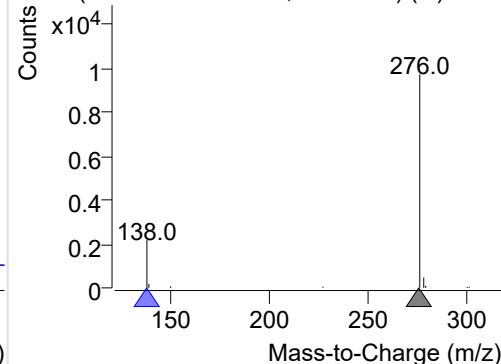
+ Selected Ion (276.0) 220707-PAHs-008.D



276.0, 138.0

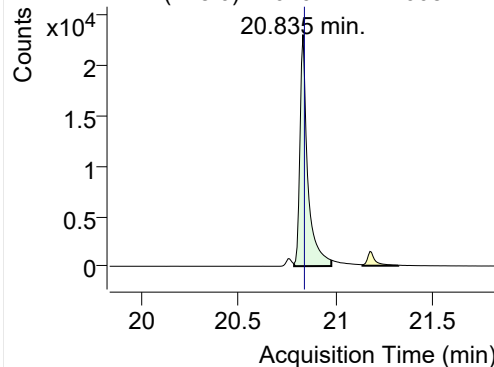


+ SIM (20.705-20.805 min, 14 scans) (**) 2207

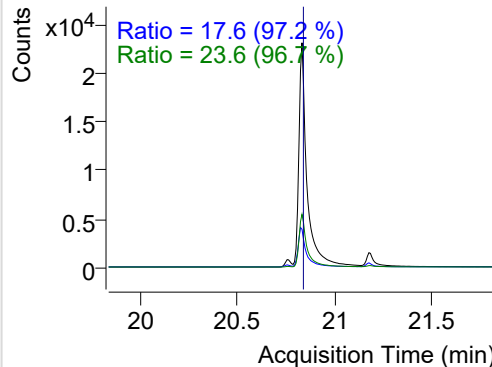


Dibenz(a,h)anthracene

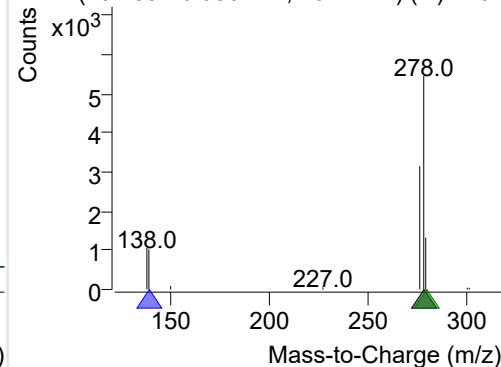
+ Selected Ion (278.0) 220707-PAHs-008.D



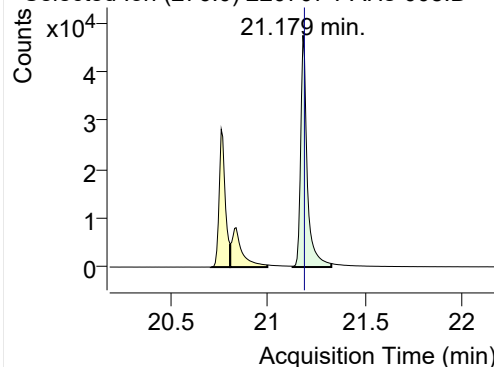
278.0, 139.0, 279.0



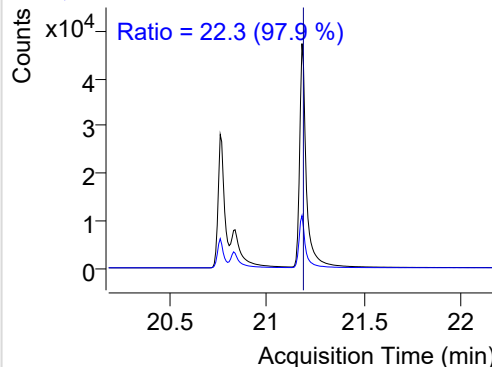
+ SIM (20.789-20.980 min, 26 scans) (**) 2207

**Benzo(g,h,i)perylene**

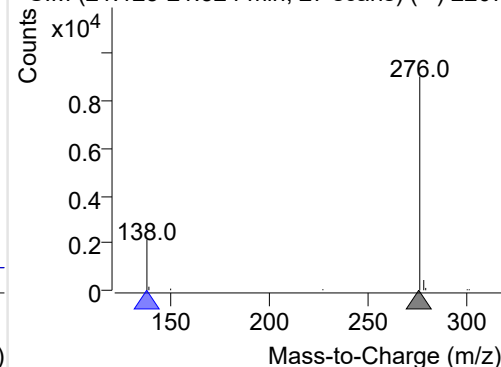
+ Selected Ion (276.0) 220707-PAHs-008.D



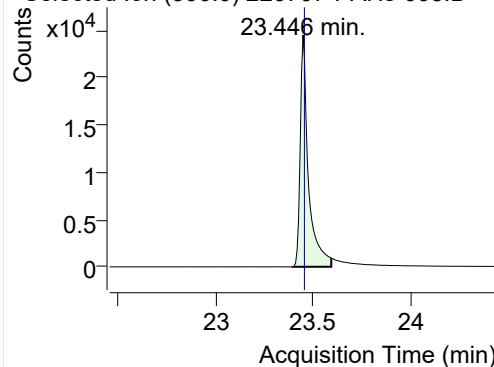
276.0, 138.0



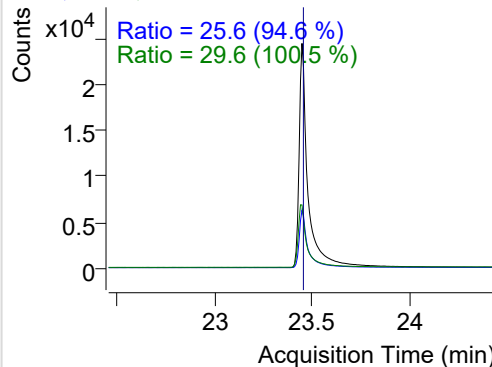
+ SIM (21.125-21.324 min, 27 scans) (**) 2207

**Coronene**

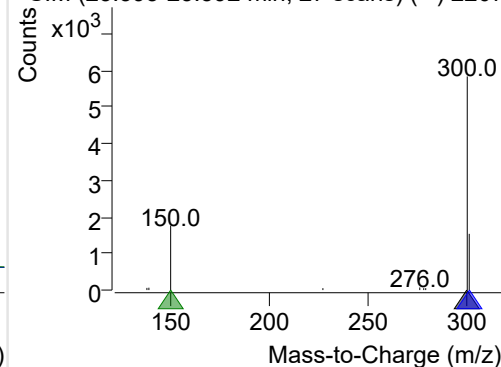
+ Selected Ion (300.0) 220707-PAHs-008.D



300.0, 301.0, 150.0



+ SIM (23.393-23.592 min, 27 scans) (**) 2207



Quantitative Analysis Sample Based Report

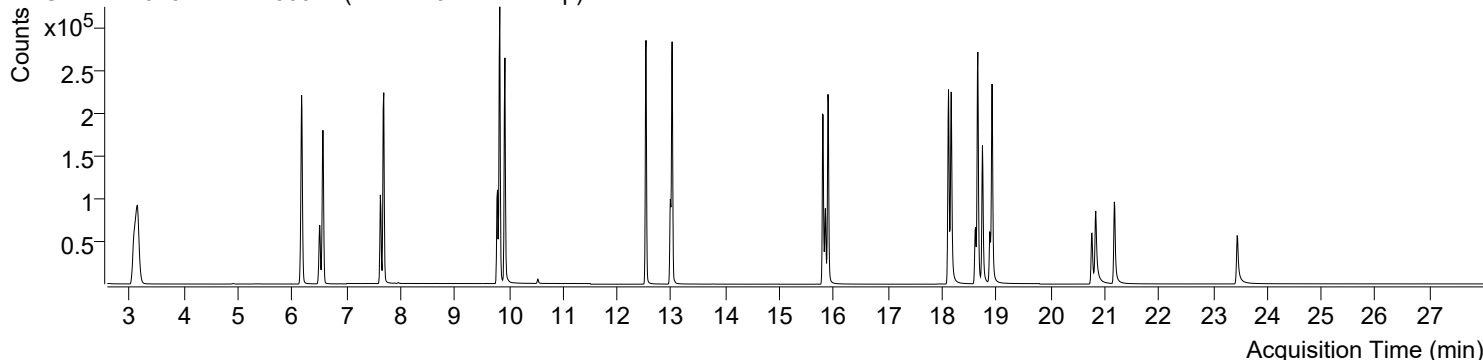


Trusted Answers

| | | | |
|---------------------------|--|-----------------------|------------------------|
| Batch Data Path File Name | D:\MassHunter\GCMS\1\data\PAHs\220707-PAHs-Sample\QuantResults\220707-PAHs-Quant.batch.bin | | |
| Analysis Time Stamp | 2022-07-09 오전 11:12:52 | Analyst Name | DESKTOP-86B7UPG\5975MS |
| Report Generation Time | 2022-07-09 오전 11:13:20 | Report Generator Name | DESKTOP-86B7UPG\5975MS |
| Calibration Last Update | 2022-07-09 오전 11:04:15 | Batch State | Processed |
| Analyze Quant Version | 10.2 | Report Quant Version | 10.2 |
| Acq. Date-Time | 2022-07-07 오후 5:28:17 | Data File | 220707-PAHs-009.D |
| Type | Sample | Name | PAHs-19mix-STD-2p |
| Dil. | 1 | Acq. Method File | PAHs 19mix-Method |

Sample Chromatogram

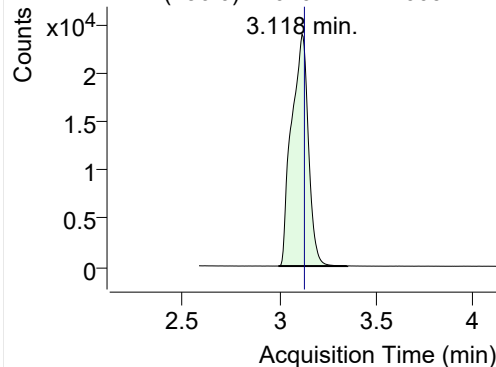
+ TIC SIM 220707-PAHs-009.D (PAHs-19mix-STD-2p)



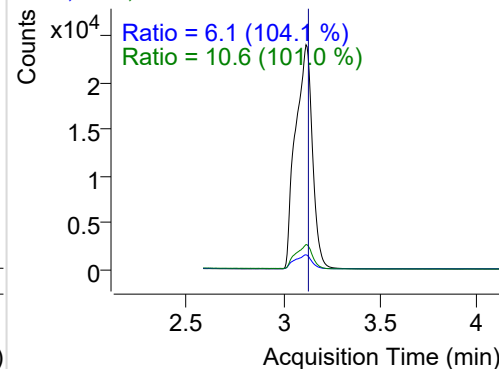
| Name | RT | Transition | Resp. | Height | Final Conc. Units | Ratio |
|-------------------------|--------|------------|--------|-----------|-------------------|-------|
| IS-D8-Naphthalene | 3.118 | 136.0 | 144882 | 24022.41 | ND ng/ml | 10.6 |
| Naphthalene | 3.145 | 128.0 | 342569 | 57341.17 | ND ng/ml | 12.7 |
| Acenaphthylene | 6.173 | 152.0 | 330818 | 164714.29 | ND ng/ml | 19.7 |
| IS-D10-Acenaphthene | 6.511 | 164.0 | 64571 | 32770.93 | ND ng/ml | 95.8 |
| Acenaphthene | 6.570 | 154.0 | 127233 | 65274.06 | ND ng/ml | 106.6 |
| LSS-D10-Fluorene | 7.627 | 176.0 | 79916 | 46059.33 | ND ng/ml | 92.8 |
| Fluorene | 7.690 | 166.0 | 192914 | 108809.38 | ND ng/ml | 92.4 |
| IS-D10-Phenanthrene | 9.791 | 188.0 | 150400 | 88904.73 | ND ng/ml | 15.0 |
| Phenanthrene | 9.833 | 178.0 | 342219 | 214411.36 | ND ng/ml | 19.0 |
| Anthracene | 9.927 | 178.0 | 293157 | 178852.08 | ND ng/ml | 18.1 |
| Fluoranthene | 12.532 | 202.0 | 346136 | 220015.71 | ND ng/ml | 17.2 |
| LSS-D10-Pyrene | 12.982 | 212.0 | 114593 | 71587.07 | ND ng/ml | 18.4 |
| Pyrene | 13.014 | 202.0 | 334571 | 212790.31 | ND ng/ml | 17.6 |
| Benz(a)anthracene | 15.800 | 228.0 | 229404 | 135887.12 | ND ng/ml | 26.3 |
| IS-D12-Chrysene | 15.844 | 240.0 | 106644 | 61280.40 | ND ng/ml | 18.8 |
| Chrysene | 15.893 | 228.0 | 256094 | 147722.03 | ND ng/ml | 28.9 |
| Benzo(b)fluoranthene | 18.117 | 252.0 | 223674 | 133823.03 | ND ng/ml | 22.9 |
| Benzo(k)fluoranthene | 18.167 | 252.0 | 266630 | 131216.60 | ND ng/ml | 20.5 |
| SS-D12-Benzo(e)pyrene | 18.616 | 264.0 | 87157 | 44044.59 | ND ng/ml | 26.3 |
| Benzo(e)pyrene | 18.658 | 252.0 | 268789 | 149661.24 | ND ng/ml | 21.6 |
| Benzo(a)pyrene | 18.744 | 252.0 | 181785 | 93172.06 | ND ng/ml | 20.8 |
| IS-D12-Perylene | 18.879 | 264.0 | 82183 | 38722.00 | ND ng/ml | 24.0 |
| Perylene | 18.922 | 252.0 | 232369 | 124240.77 | ND ng/ml | 21.4 |
| Indeno(1,2,3-c,d)pyrene | 20.767 | 276.0 | 104029 | 48099.85 | ND ng/ml | 20.9 |
| Dibenz(a,h)anthracene | 20.835 | 278.0 | 120075 | 45297.66 | ND ng/ml | 23.7 |
| Benzo(g,h,i)perylene | 21.179 | 276.0 | 176653 | 74604.70 | ND ng/ml | 22.3 |
| Coronene | 23.447 | 300.0 | 106244 | 36463.46 | ND ng/ml | 28.7 |

IS-D8-Naphthalene

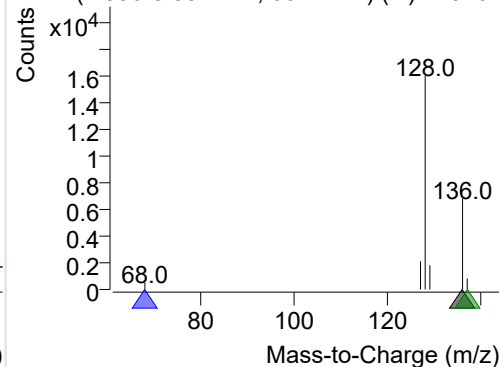
+ Selected Ion (136.0) 220707-PAHs-009.D



136.0, 68.0, 137.0

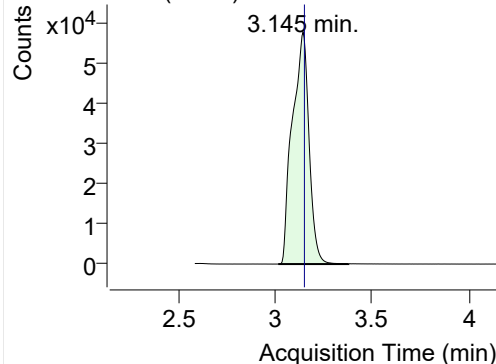


+ SIM (2.996-3.351 min, 66 scans) (**) 220707

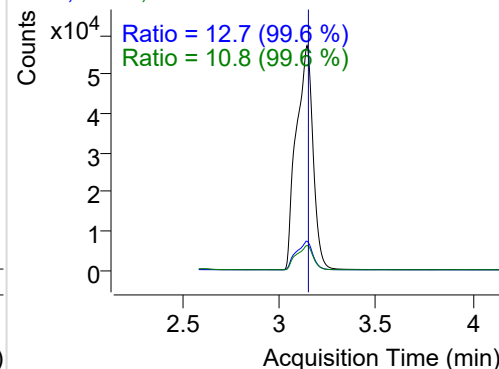


Naphthalene

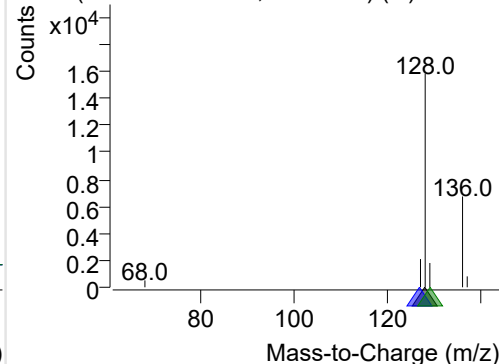
+ Selected Ion (128.0) 220707-PAHs-009.D



128.0, 127.0, 129.0

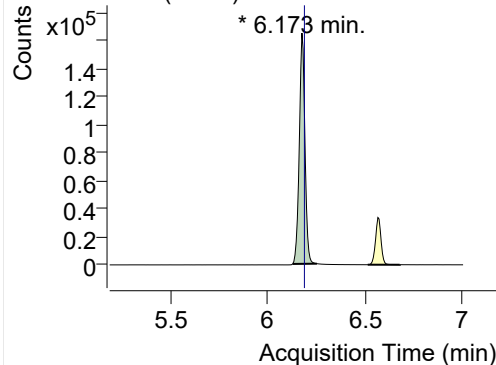


+ SIM (3.017-3.378 min, 67 scans) (**) 220707

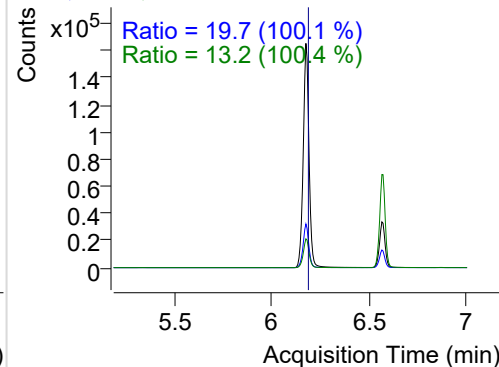


Acenaphthylene

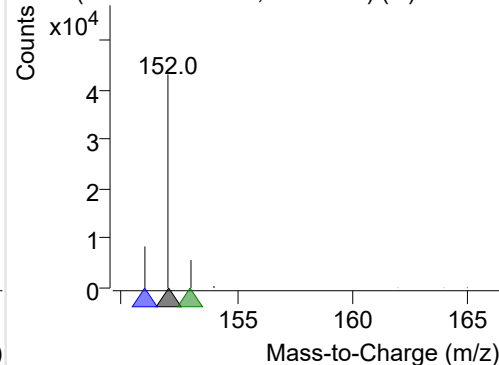
+ Selected Ion (152.0) 220707-PAHs-009.D



152.0, 151.0, 153.0

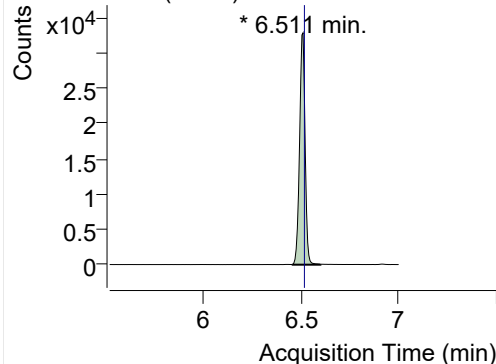


+ SIM (6.126-6.250 min, 22 scans) (**) 220707

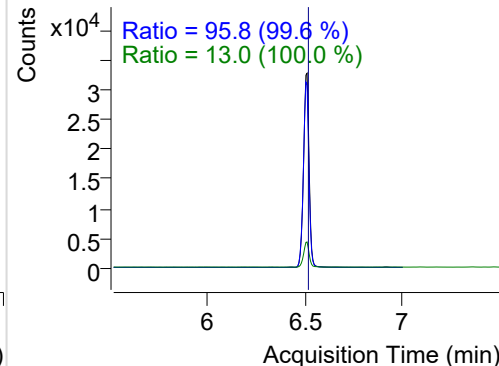


IS-D10-Acenaphthene

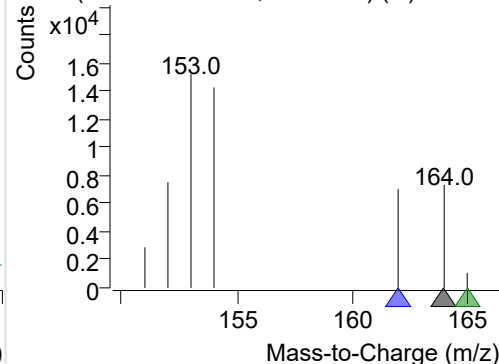
+ Selected Ion (164.0) 220707-PAHs-009.D



164.0, 162.0, 165.0

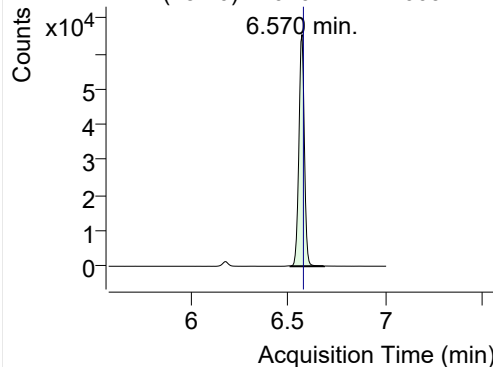


+ SIM (6.457-6.599 min, 25 scans) (**) 220707

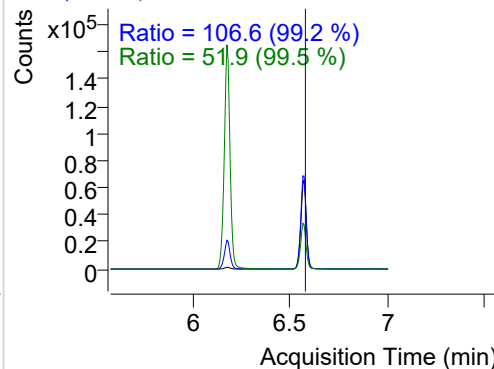


Acenaphthene

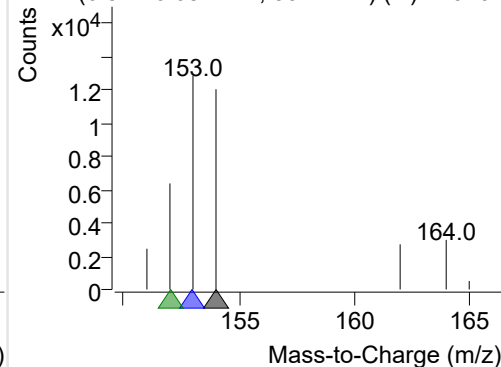
+ Selected Ion (154.0) 220707-PAHs-009.D



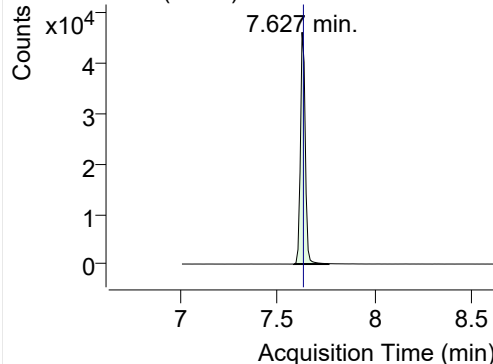
154.0, 153.0, 152.0



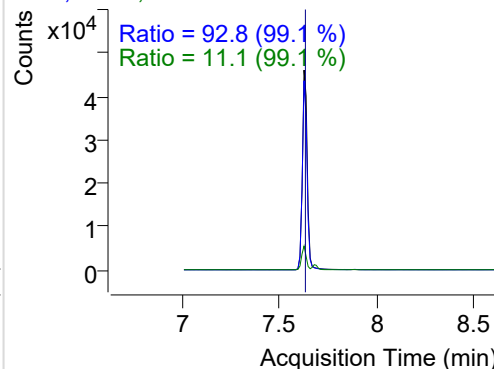
+ SIM (6.511-6.682 min, 30 scans) (**) 220707

**LSS-D10-Fluorene**

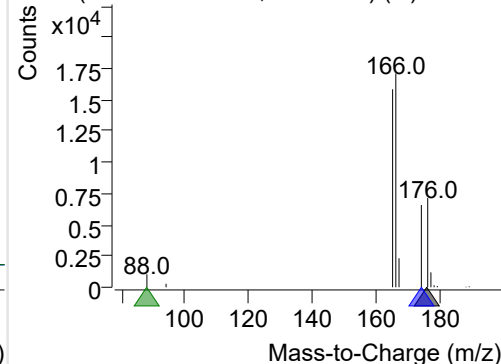
+ Selected Ion (176.0) 220707-PAHs-009.D



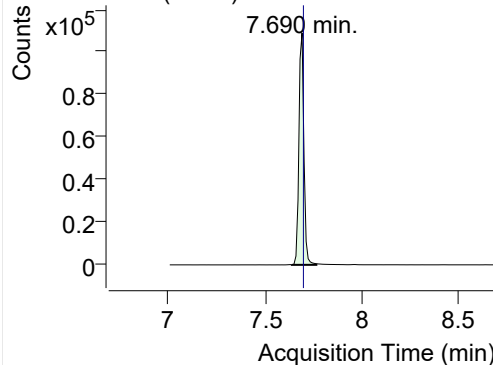
176.0, 174.0, 88.0



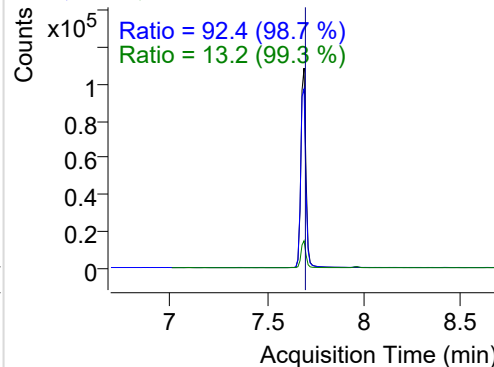
+ SIM (7.585-7.764 min, 18 scans) (**) 220707

**Fluorene**

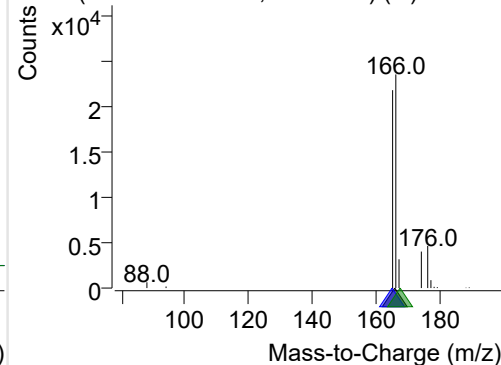
+ Selected Ion (166.0) 220707-PAHs-009.D



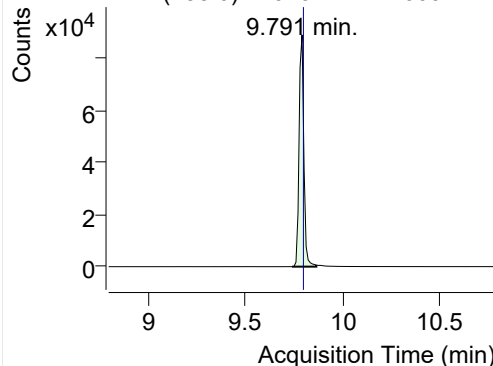
166.0, 165.0, 167.0



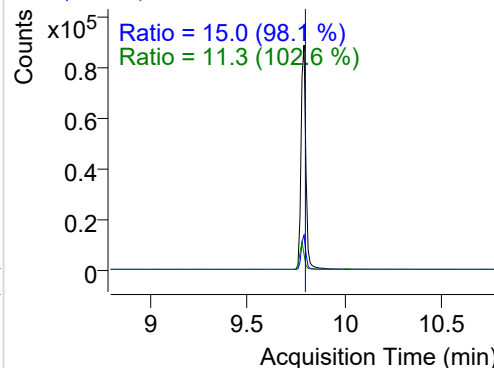
+ SIM (7.638-7.764 min, 13 scans) (**) 220707

**IS-D10-Phenanthrene**

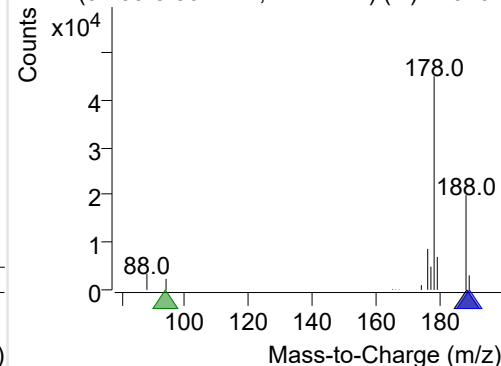
+ Selected Ion (188.0) 220707-PAHs-009.D



188.0, 189.0, 94.0

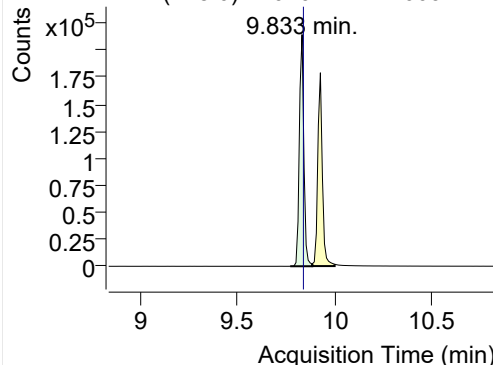


+ SIM (9.739-9.864 min, 12 scans) (**) 220707

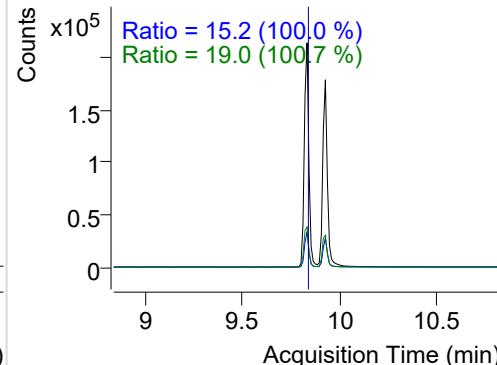


Phenanthrene

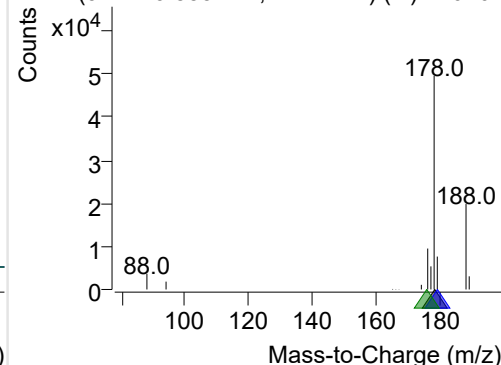
+ Selected Ion (178.0) 220707-PAHs-009.D



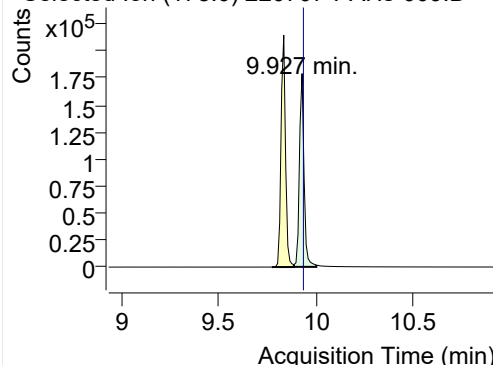
178.0, 179.0, 176.0



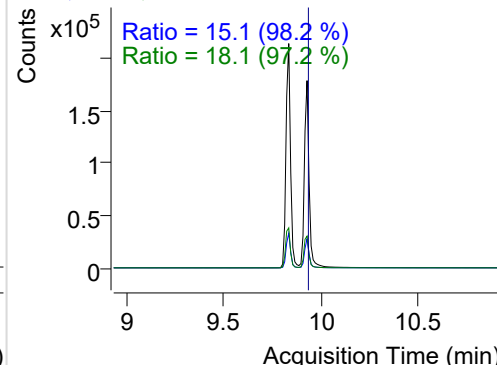
+ SIM (9.771-9.885 min, 11 scans) (**) 220707

**Anthracene**

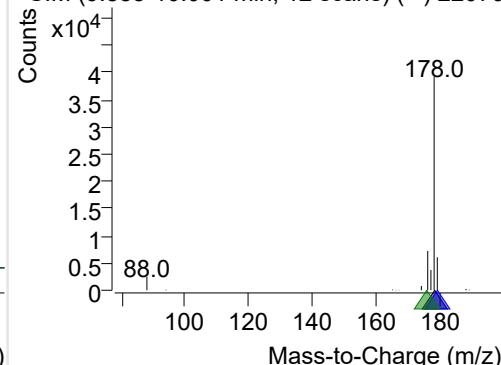
+ Selected Ion (178.0) 220707-PAHs-009.D



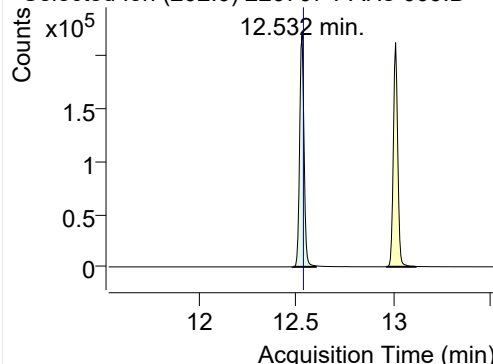
178.0, 179.0, 176.0



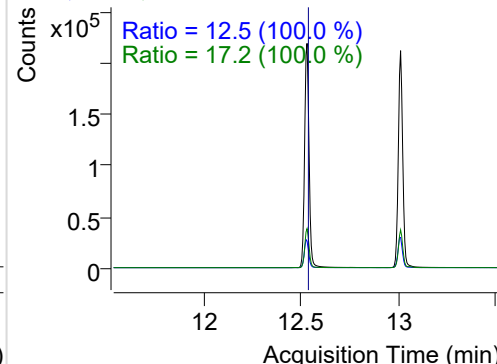
+ SIM (9.885-10.001 min, 12 scans) (**) 220707

**Fluoranthene**

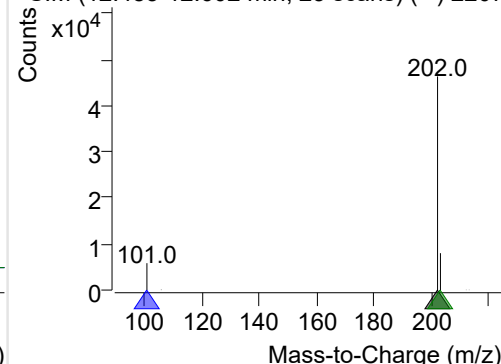
+ Selected Ion (202.0) 220707-PAHs-009.D



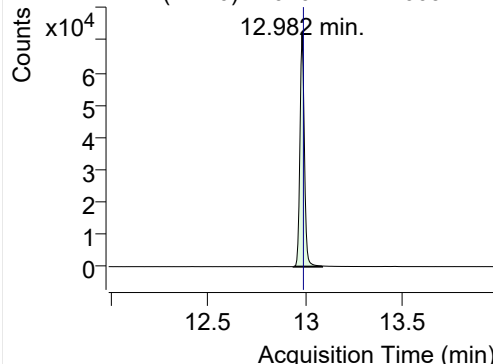
202.0, 101.0, 203.0



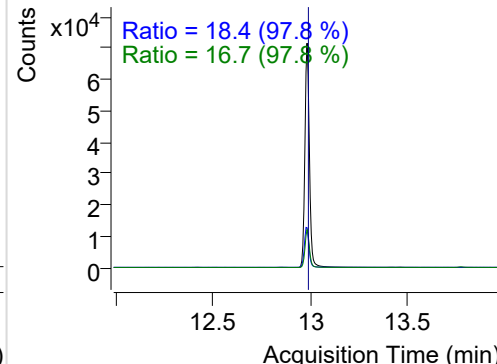
+ SIM (12.483-12.602 min, 23 scans) (**) 220707

**LSS-D10-Pyrene**

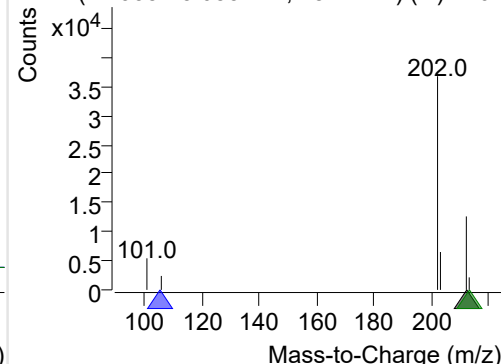
+ Selected Ion (212.0) 220707-PAHs-009.D



212.0, 106.0, 213.0

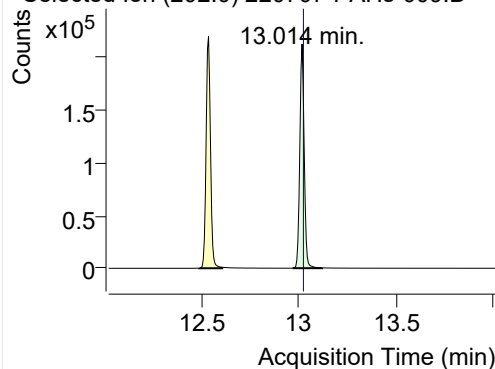


+ SIM (12.938-13.085 min, 28 scans) (**) 220707

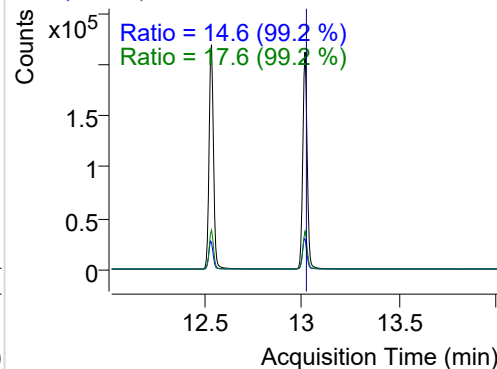


Pyrene

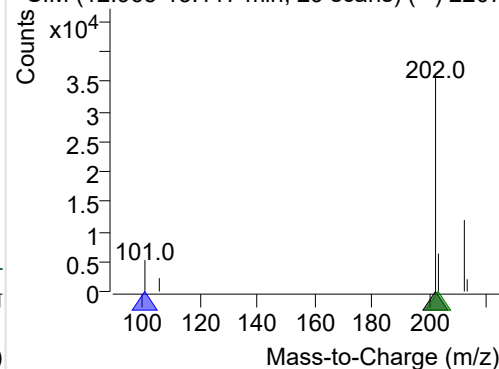
+ Selected Ion (202.0) 220707-PAHs-009.D



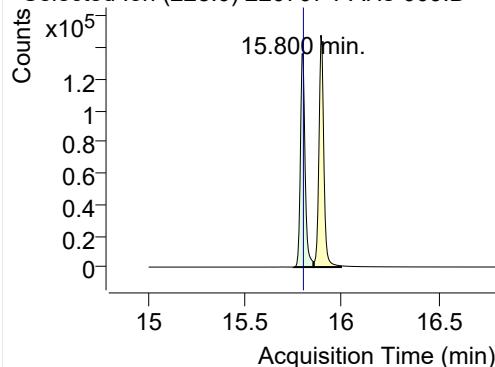
202.0, 101.0, 203.0



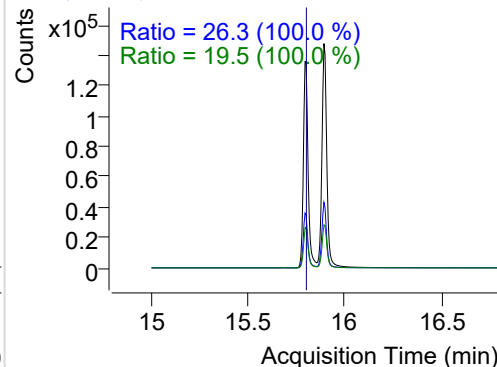
+ SIM (12.965-13.117 min, 29 scans) (**) 2207

**Benz(a)anthracene**

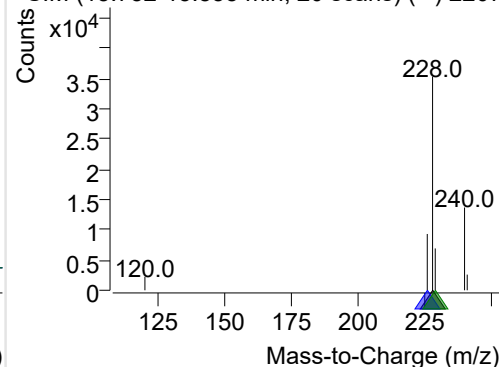
+ Selected Ion (228.0) 220707-PAHs-009.D



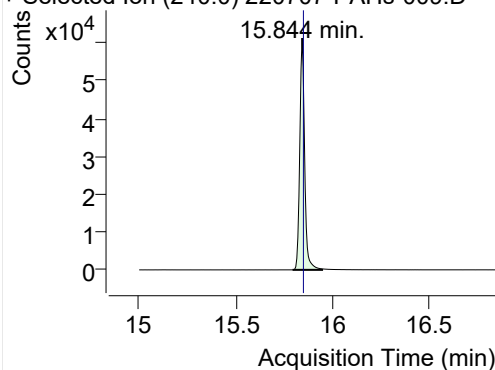
228.0, 226.0, 229.0



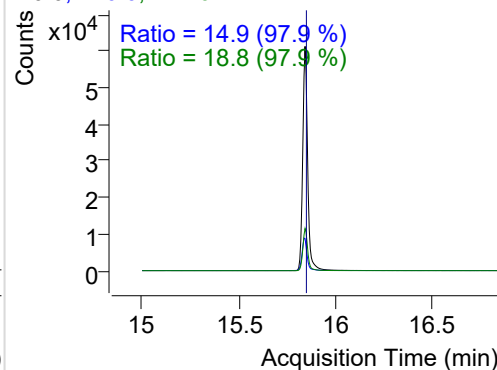
+ SIM (15.752-15.855 min, 20 scans) (**) 2207

**IS-D12-Chrysene**

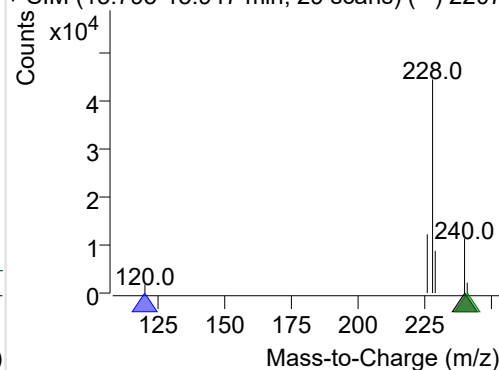
+ Selected Ion (240.0) 220707-PAHs-009.D



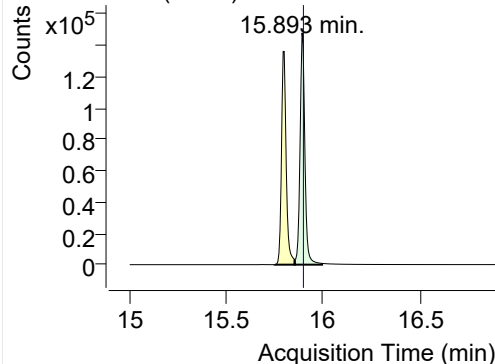
240.0, 120.0, 241.0



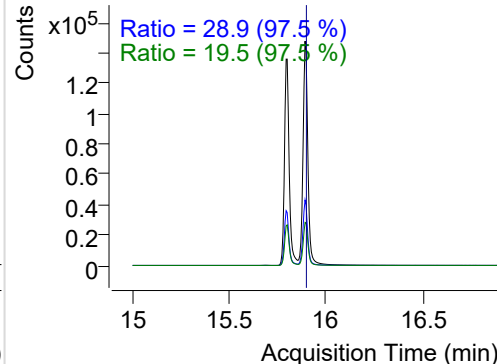
+ SIM (15.795-15.947 min, 29 scans) (**) 2207

**Chrysene**

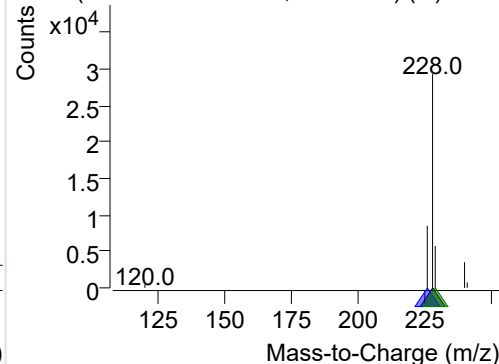
+ Selected Ion (228.0) 220707-PAHs-009.D



228.0, 226.0, 229.0

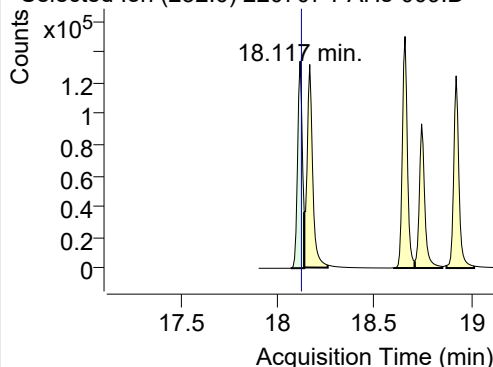


+ SIM (15.855-15.996 min, 27 scans) (**) 2207

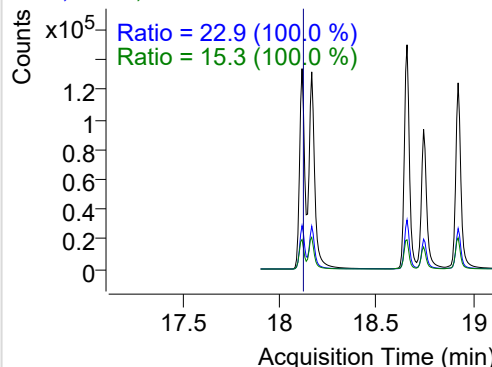


Benzo(b)fluoranthene

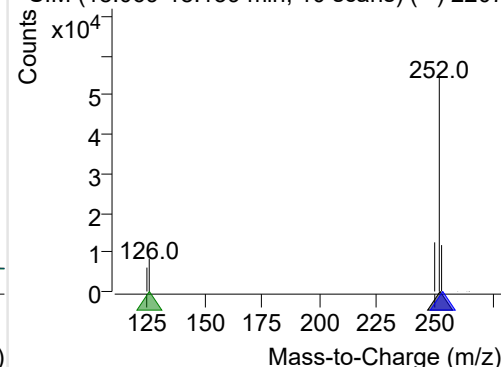
+ Selected Ion (252.0) 220707-PAHs-009.D



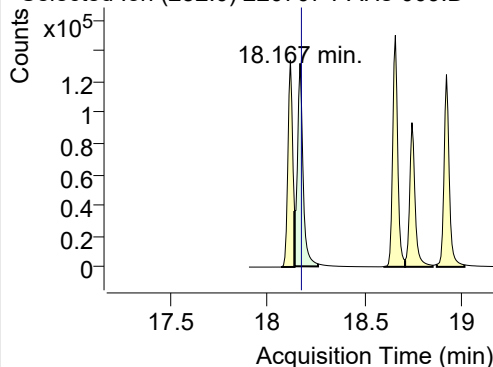
252.0, 253.0, 126.0



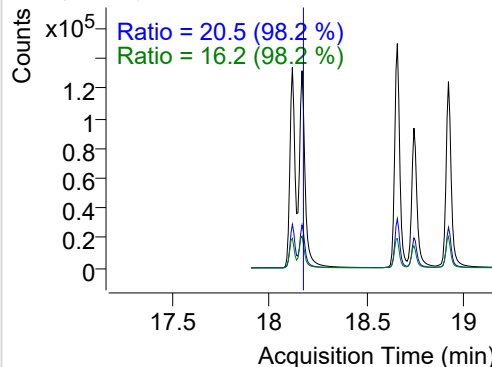
+ SIM (18.069-18.139 min, 10 scans) (**) 2207

**Benzo(k)fluoranthene**

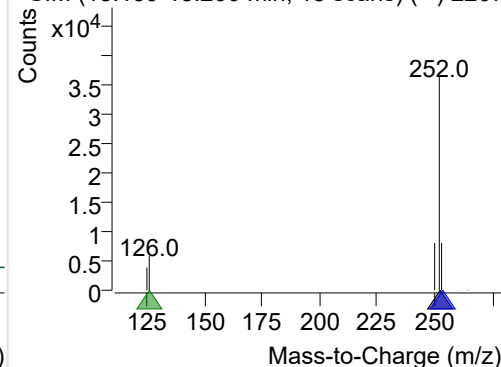
+ Selected Ion (252.0) 220707-PAHs-009.D



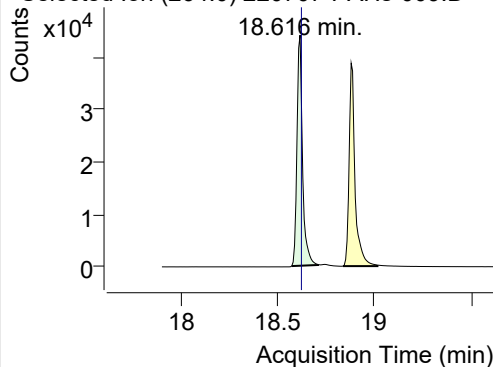
252.0, 253.0, 126.0



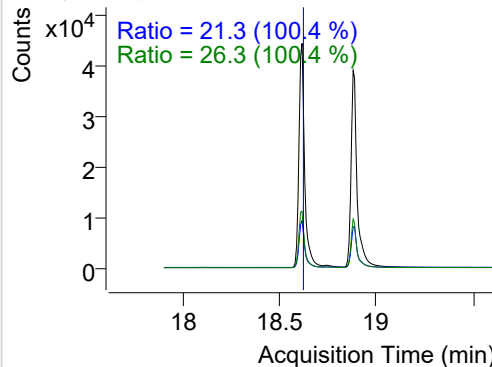
+ SIM (18.139-18.260 min, 18 scans) (**) 2207

**SS-D12-Benzo(e)pyrene**

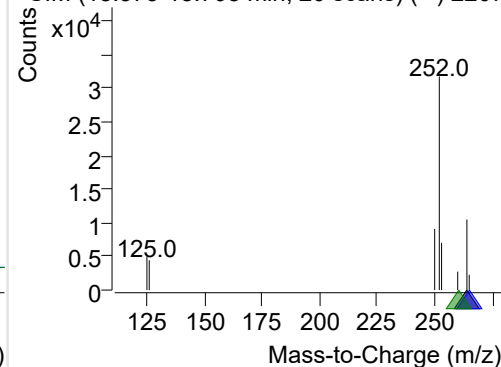
+ Selected Ion (264.0) 220707-PAHs-009.D



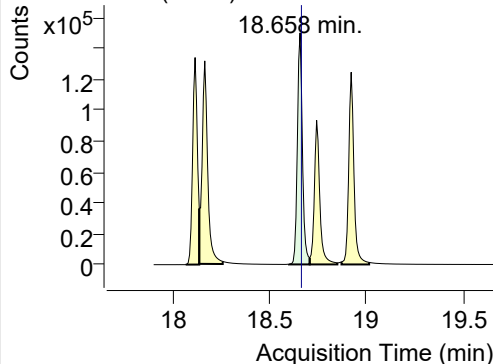
264.0, 265.0, 260.0



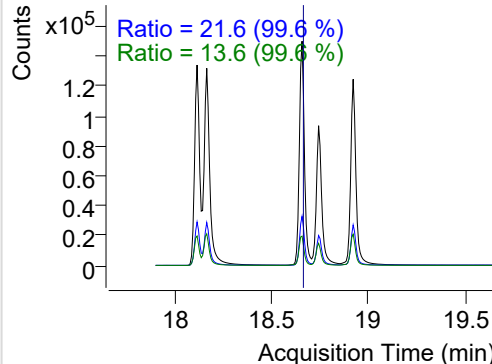
+ SIM (18.573-18.708 min, 20 scans) (**) 2207

**Benzo(e)pyrene**

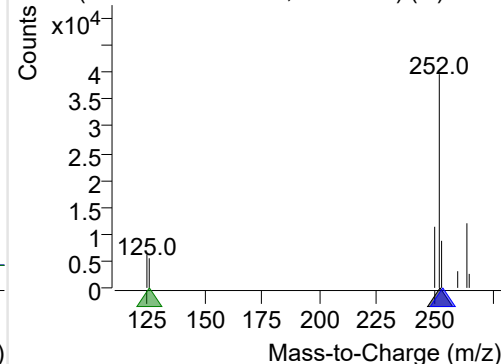
+ Selected Ion (252.0) 220707-PAHs-009.D



252.0, 253.0, 126.0

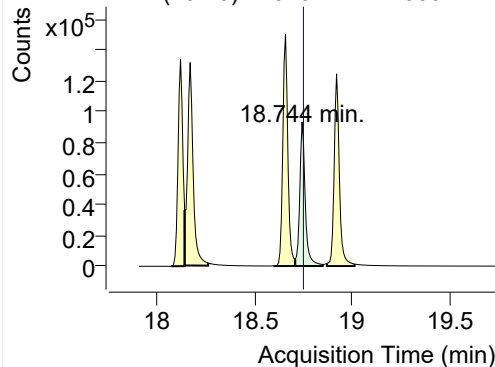


+ SIM (18.602-18.708 min, 16 scans) (**) 2207

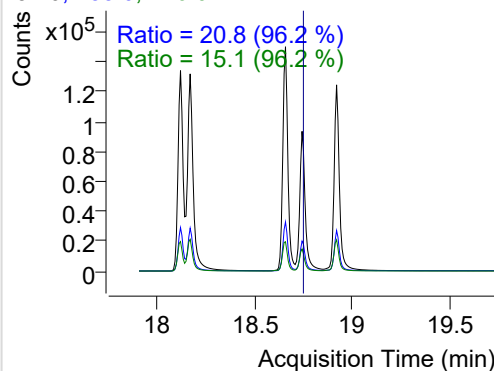


Benzo(a)pyrene

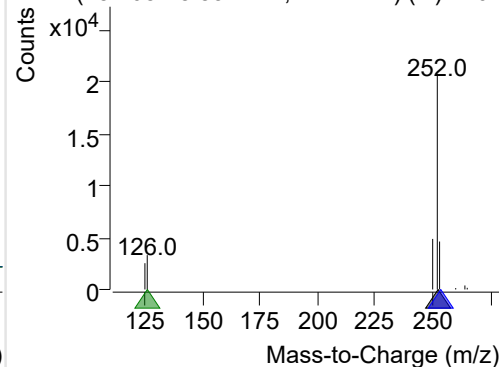
+ Selected Ion (252.0) 220707-PAHs-009.D



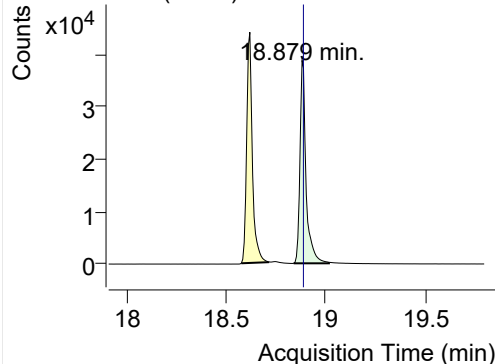
252.0, 253.0, 126.0



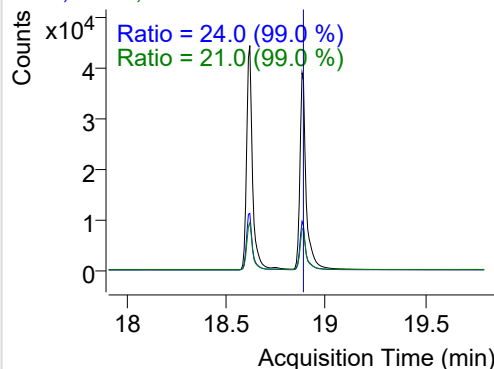
+ SIM (18.708-18.851 min, 21 scans) (**) 2207

**IS-D12-Perylene**

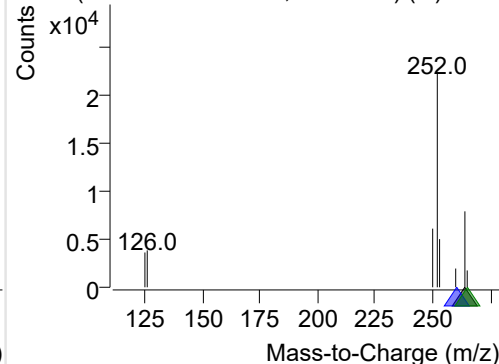
+ Selected Ion (264.0) 220707-PAHs-009.D



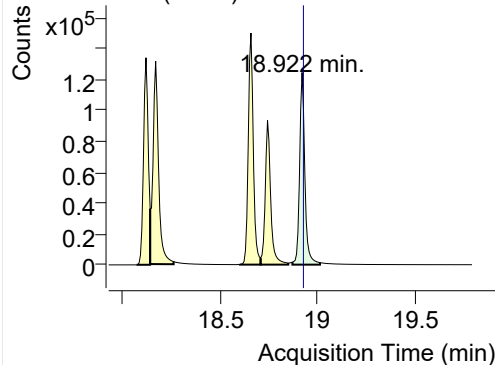
264.0, 260.0, 265.0



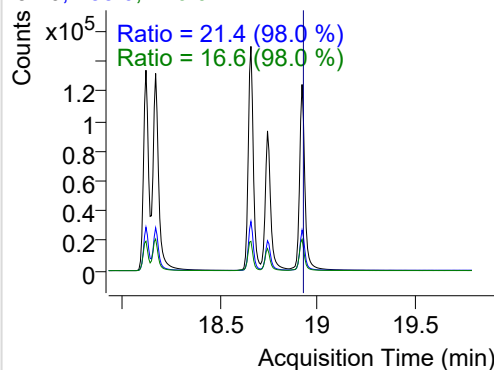
+ SIM (18.837-19.014 min, 25 scans) (**) 2207

**Perylene**

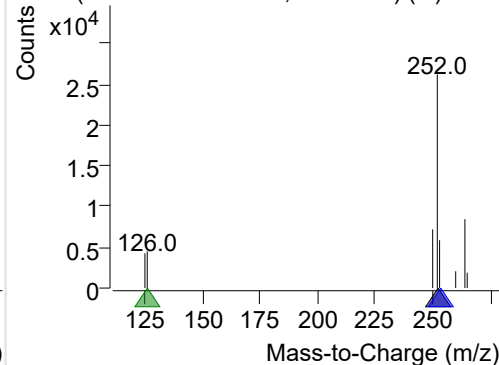
+ Selected Ion (252.0) 220707-PAHs-009.D



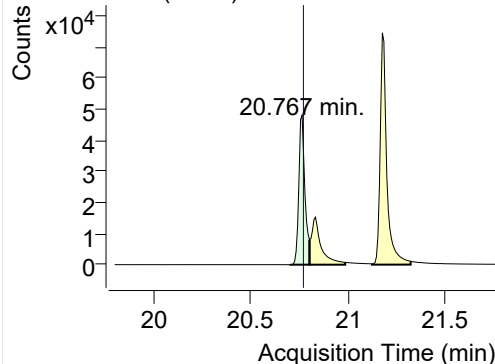
252.0, 253.0, 126.0



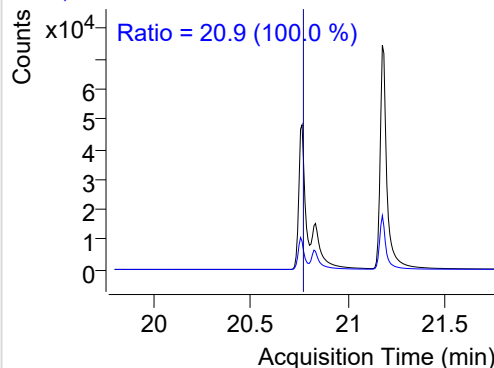
+ SIM (18.872-19.014 min, 21 scans) (**) 2207

**Indeno(1,2,3-c,d)pyrene**

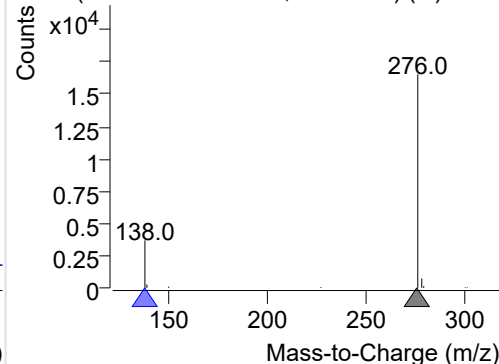
+ Selected Ion (276.0) 220707-PAHs-009.D



276.0, 138.0

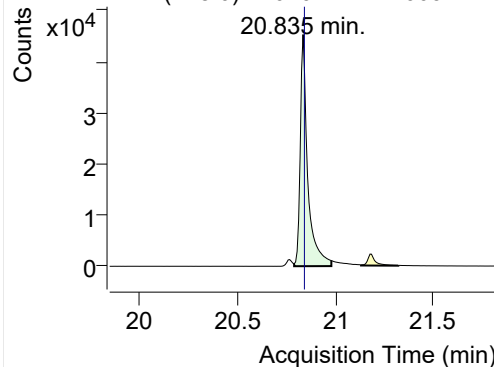


+ SIM (20.706-20.805 min, 14 scans) (**) 2207

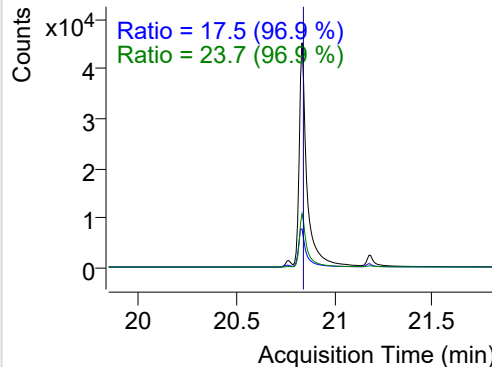


Dibenz(a,h)anthracene

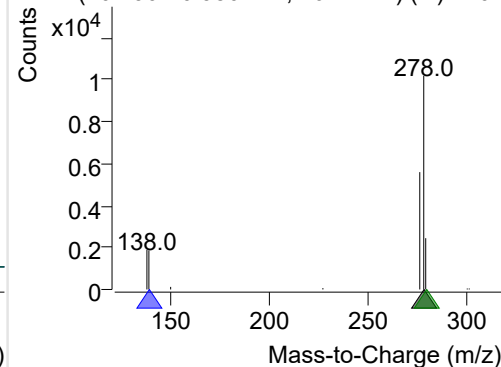
+ Selected Ion (278.0) 220707-PAHs-009.D



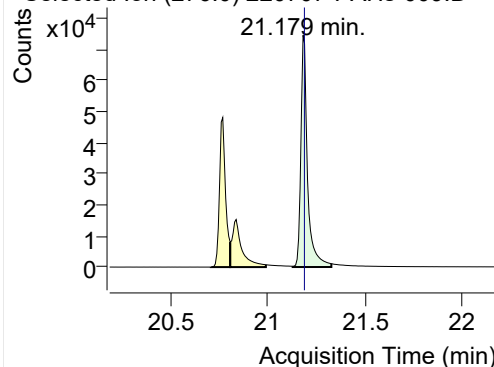
278.0, 139.0, 279.0



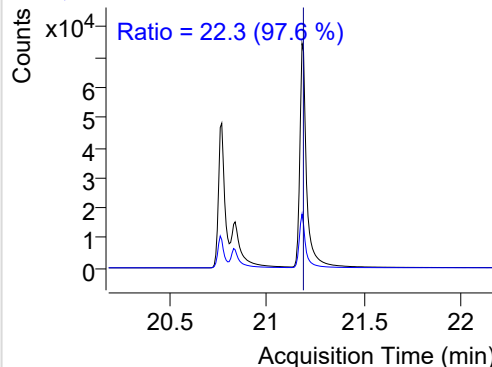
+ SIM (20.790-20.980 min, 26 scans) (**) 2207

**Benzo(g,h,i)perylene**

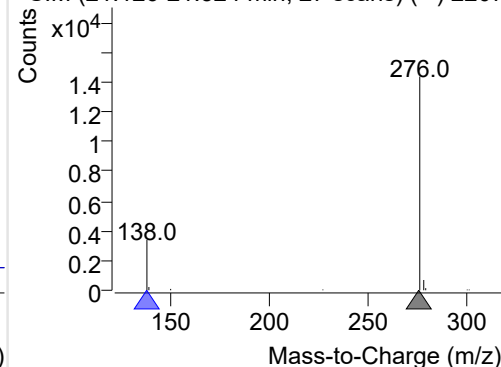
+ Selected Ion (276.0) 220707-PAHs-009.D



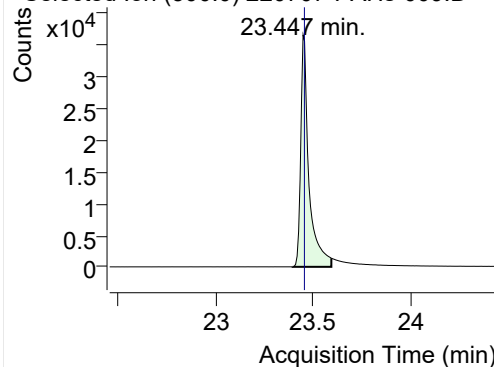
276.0, 138.0



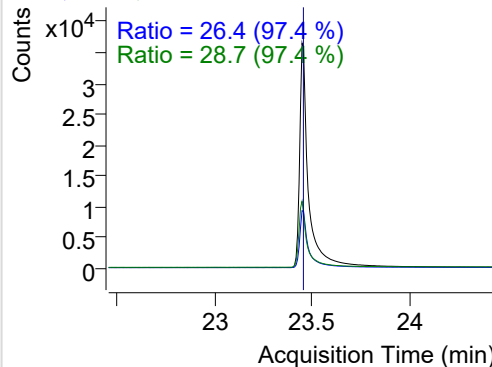
+ SIM (21.126-21.324 min, 27 scans) (**) 2207

**Coronene**

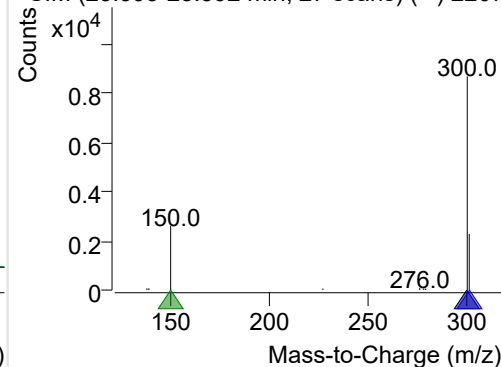
+ Selected Ion (300.0) 220707-PAHs-009.D



300.0, 301.0, 150.0



+ SIM (23.393-23.592 min, 27 scans) (**) 2207



Quantitative Analysis Sample Based Report

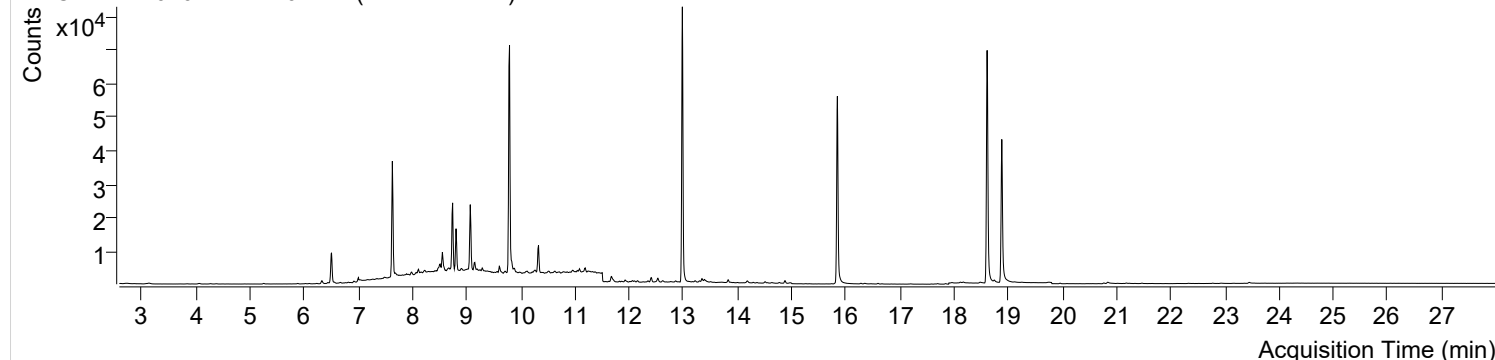


Trusted Answers

| | | | |
|---------------------------|--|-----------------------|------------------------|
| Batch Data Path File Name | D:\MassHunter\GCMS\1\data\PAHs\220707-PAHs-Sample\QuantResults\220707-PAHs-Quant.batch.bin | | |
| Analysis Time Stamp | 2022-07-09 오전 11:12:52 | Analyst Name | DESKTOP-86B7UPG\5975MS |
| Report Generation Time | 2022-07-09 오전 11:13:20 | Report Generator Name | DESKTOP-86B7UPG\5975MS |
| Calibration Last Update | 2022-07-09 오전 11:04:15 | Batch State | Processed |
| Analyze Quant Version | 10.2 | Report Quant Version | 10.2 |
| Acq. Date-Time | 2022-07-07 오후 6:30:31 | Data File | 220707-PAHs-011.D |
| Type | Sample | Name | Method blank |
| Dil. | 1 | Acq. Method File | PAHs 19mix-Method |

Sample Chromatogram

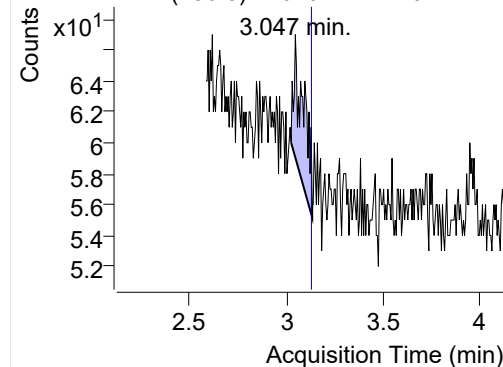
+ TIC SIM 220707-PAHs-011.D (Method blank)



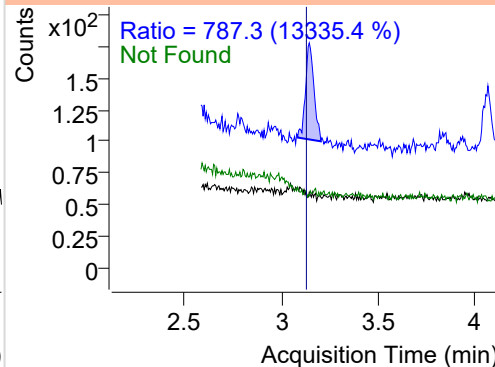
| Name | RT | Transition | Resp. | Height | Final Conc. Units | Ratio |
|-------------------------|--------|------------|-------|----------|-------------------|-------|
| IS-D8-Naphthalene | 3.047 | 136.0 | 29 | 7.97 | ND ng/ml | |
| Naphthalene | 3.123 | 128.0 | 688 | 138.18 | ND ng/ml | 7.7 |
| Acenaphthylene | 6.173 | 152.0 | 19 | 11.50 | ND ng/ml | |
| IS-D10-Acenaphthene | 6.505 | 164.0 | 8112 | 4285.02 | ND ng/ml | 96.0 |
| Acenaphthene | 6.552 | 154.0 | 593 | 216.00 | ND ng/ml | 9.4 |
| LSS-D10-Fluorene | 7.627 | 176.0 | 25326 | 15421.27 | ND ng/ml | 92.9 |
| Fluorene | 7.680 | 166.0 | 422 | 220.35 | ND ng/ml | 280.1 |
| IS-D10-Phenanthrene | 9.791 | 188.0 | 95262 | 55080.62 | ND ng/ml | 15.2 |
| Phenanthrene | 9.833 | 178.0 | 2528 | 1312.45 | ND ng/ml | 16.8 |
| Anthracene | 9.833 | 178.0 | 2528 | 1312.45 | ND ng/ml | 16.8 |
| Fluoranthene | 12.532 | 202.0 | 1170 | 658.57 | ND ng/ml | 56.9 |
| LSS-D10-Pyrene | 12.982 | 212.0 | 96966 | 60673.47 | ND ng/ml | 18.0 |
| Pyrene | 13.014 | 202.0 | 1173 | 566.73 | ND ng/ml | 52.0 |
| Benz(a)anthracene | 15.800 | 228.0 | 298 | 150.00 | ND ng/ml | 37.2 |
| IS-D12-Chrysene | 15.844 | 240.0 | 75129 | 41922.63 | ND ng/ml | 18.9 |
| Chrysene | 15.892 | 228.0 | 524 | 189.10 | ND ng/ml | 26.2 |
| Benzo(b)fluoranthene | 18.117 | 252.0 | 291 | 139.25 | ND ng/ml | |
| Benzo(k)fluoranthene | 18.167 | 252.0 | 547 | 172.37 | ND ng/ml | 31.3 |
| SS-D12-Benzo(e)pyrene | 18.609 | 264.0 | 90571 | 46967.10 | ND ng/ml | 24.3 |
| Benzo(e)pyrene | 18.651 | 252.0 | 241 | 107.33 | ND ng/ml | |
| Benzo(a)pyrene | 18.744 | 252.0 | 392 | 153.28 | ND ng/ml | 25.9 |
| IS-D12-Perylene | 18.879 | 264.0 | 56009 | 29003.99 | ND ng/ml | 23.9 |
| Perylene | 18.922 | 252.0 | 281 | 111.18 | ND ng/ml | |
| Indeno(1,2,3-c,d)pyrene | 20.767 | 276.0 | 411 | 163.76 | ND ng/ml | 15.4 |
| Dibenz(a,h)anthracene | 20.835 | 278.0 | 960 | 226.45 | ND ng/ml | 24.8 |
| Benzo(g,h,i)perylene | 21.179 | 276.0 | 328 | 119.44 | ND ng/ml | 25.7 |
| Coronene | 23.447 | 300.0 | 716 | 178.85 | ND ng/ml | 19.3 |

IS-D8-Naphthalene

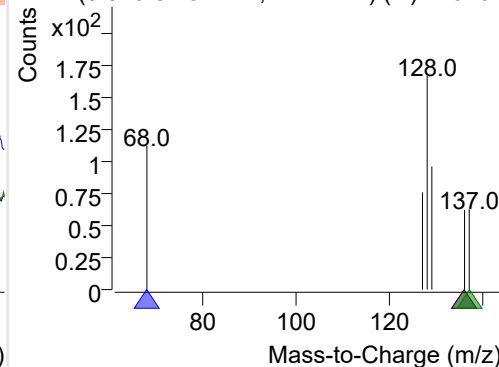
+ Selected Ion (136.0) 220707-PAHs-011.D



136.0, 68.0, 137.0

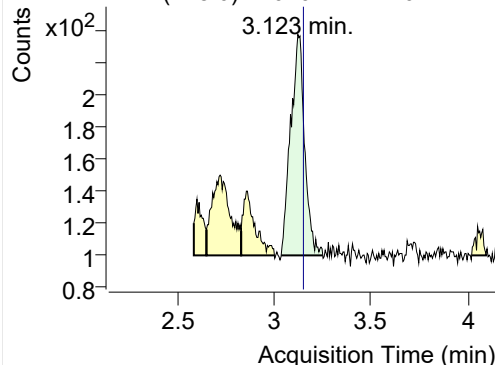


+ SIM (3.026-3.134 min, 21 scans) (**) 220707

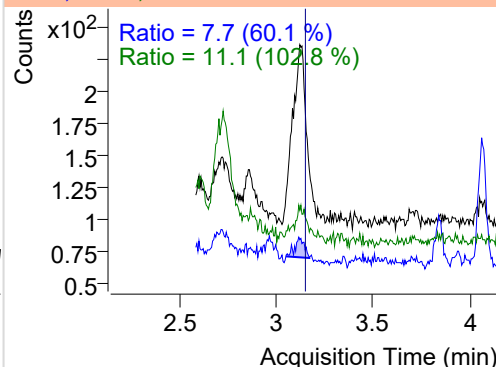


Naphthalene

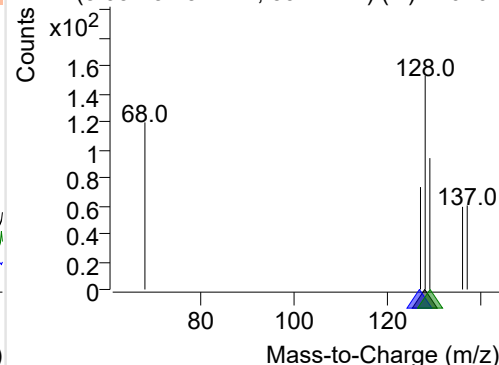
+ Selected Ion (128.0) 220707-PAHs-011.D



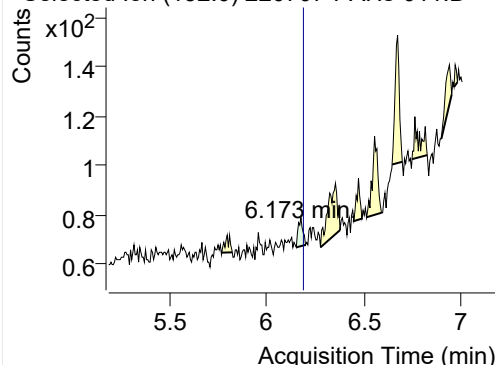
128.0, 127.0, 129.0



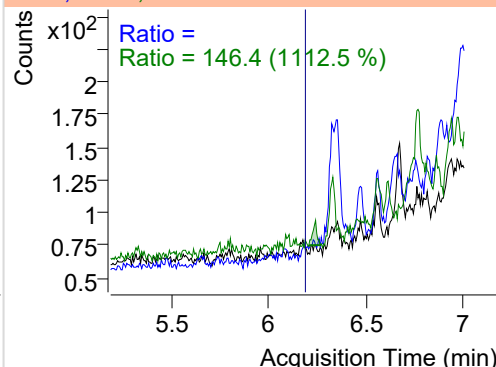
+ SIM (3.037-3.251 min, 39 scans) (**) 220707

**Acenaphthylene**

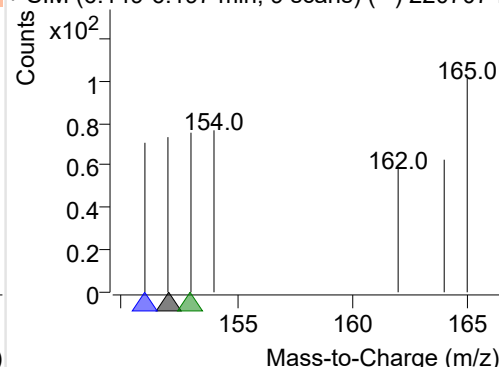
+ Selected Ion (152.0) 220707-PAHs-011.D



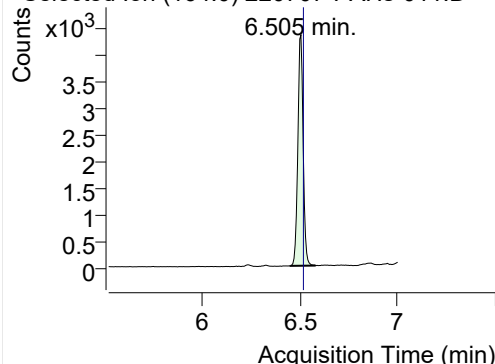
152.0, 151.0, 153.0



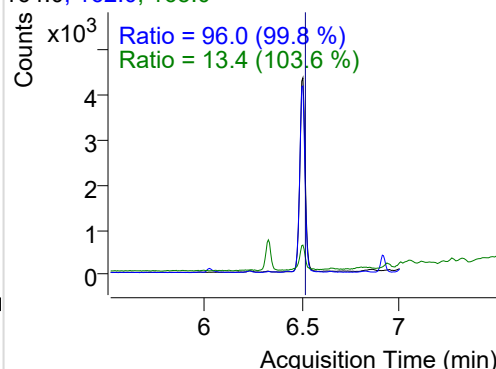
+ SIM (6.149-6.197 min, 9 scans) (**) 220707-I

**IS-D10-Acenaphthene**

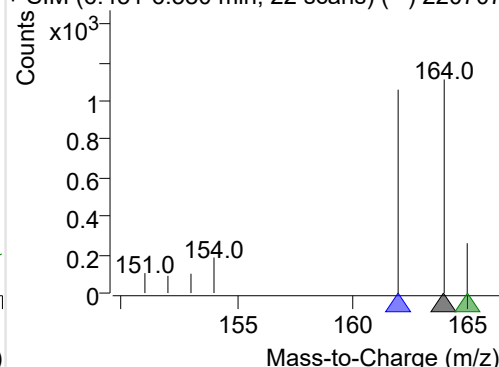
+ Selected Ion (164.0) 220707-PAHs-011.D



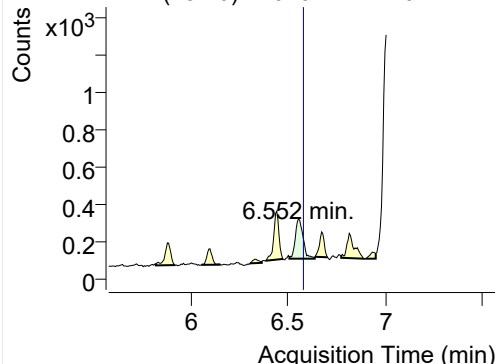
164.0, 162.0, 165.0



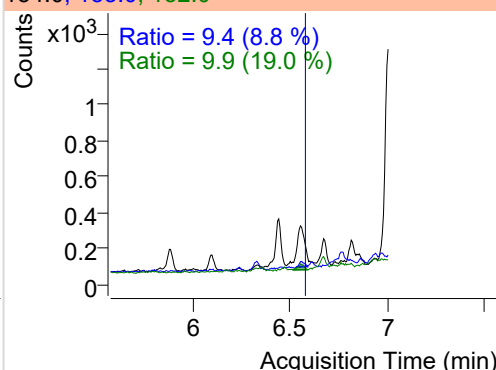
+ SIM (6.451-6.580 min, 22 scans) (**) 220707

**Acenaphthene**

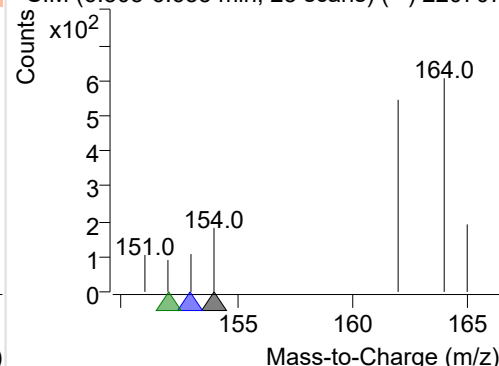
+ Selected Ion (154.0) 220707-PAHs-011.D



154.0, 153.0, 152.0

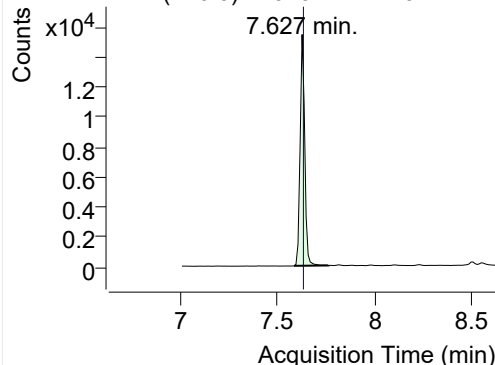


+ SIM (6.505-6.635 min, 23 scans) (**) 220707

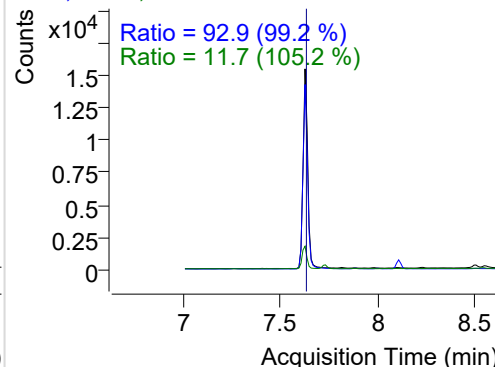


LSS-D10-Fluorene

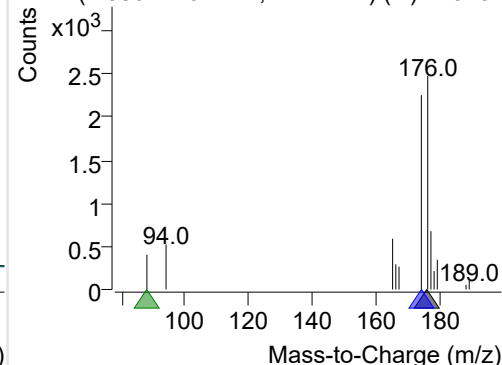
+ Selected Ion (176.0) 220707-PAHs-011.D



176.0, 174.0, 88.0

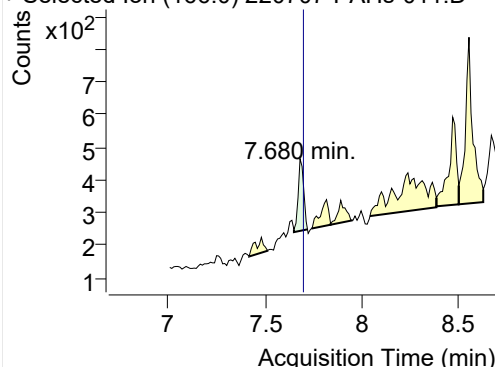


+ SIM (7.586-7.764 min, 17 scans) (**) 220707

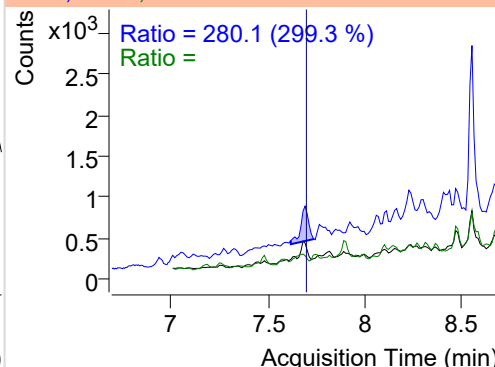


Fluorene

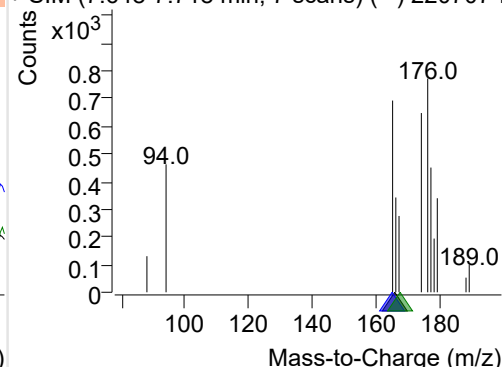
+ Selected Ion (166.0) 220707-PAHs-011.D



166.0, 165.0, 167.0

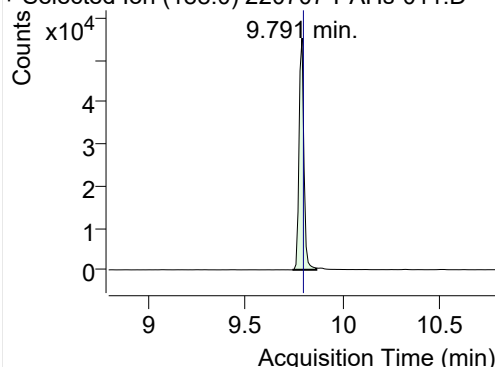


+ SIM (7.648-7.718 min, 7 scans) (**) 220707-I

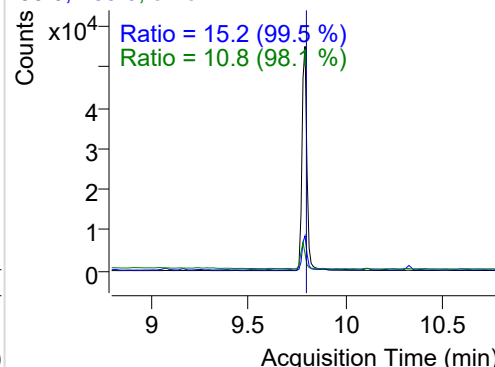


IS-D10-Phenanthrene

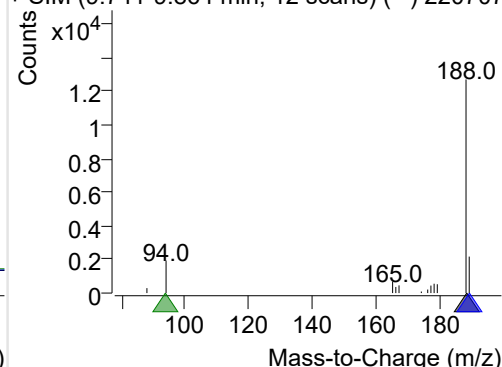
+ Selected Ion (188.0) 220707-PAHs-011.D



188.0, 189.0, 94.0

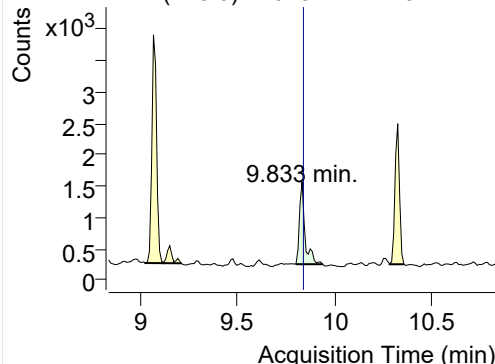


+ SIM (9.741-9.864 min, 12 scans) (**) 220707

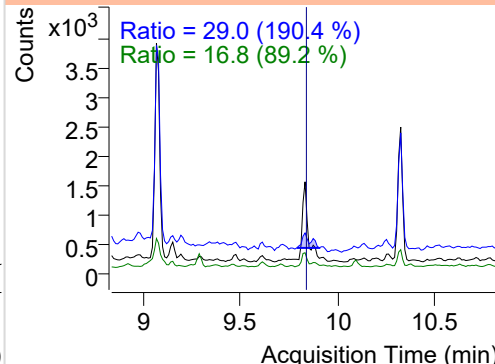


Phenanthrene

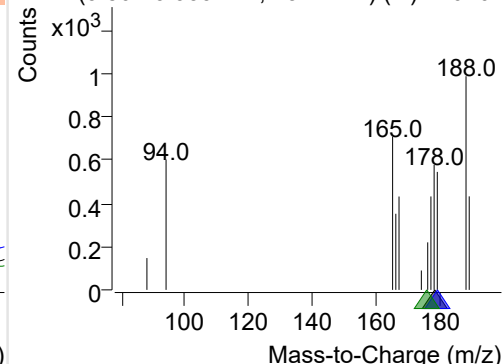
+ Selected Ion (178.0) 220707-PAHs-011.D



178.0, 179.0, 176.0

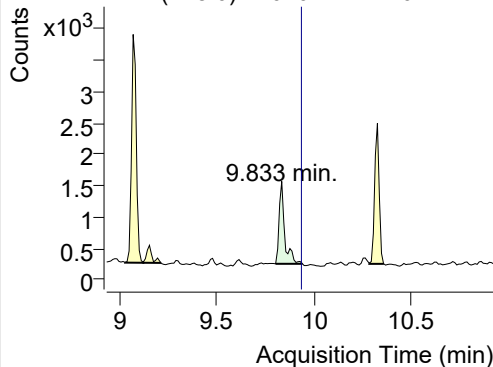


+ SIM (9.801-9.939 min, 13 scans) (**) 220707

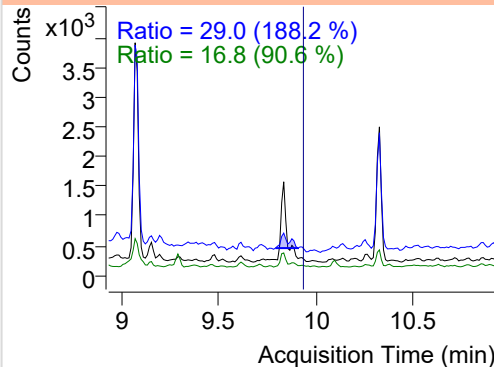


Anthracene

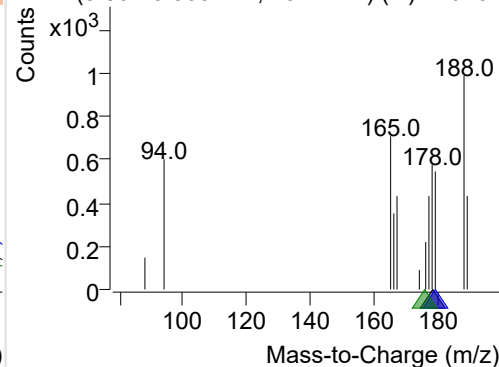
+ Selected Ion (178.0) 220707-PAHs-011.D



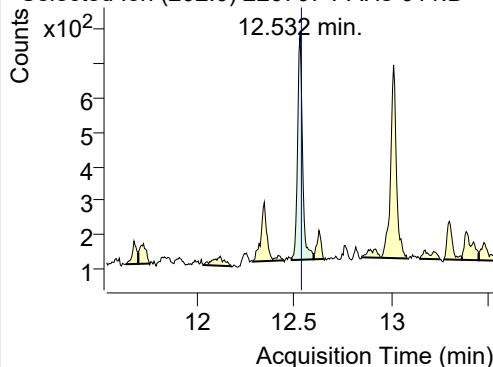
178.0, 179.0, 176.0



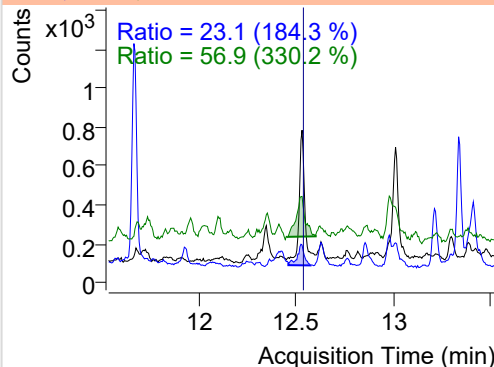
+ SIM (9.801-9.939 min, 13 scans) (**) 220707

**Fluoranthene**

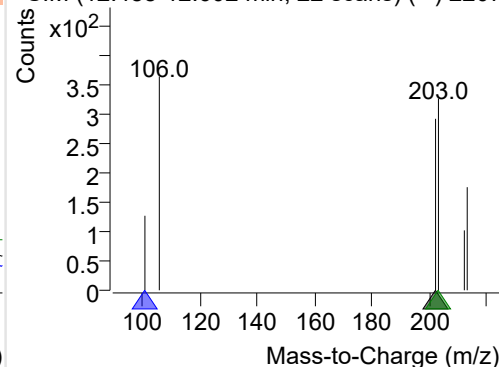
+ Selected Ion (202.0) 220707-PAHs-011.D



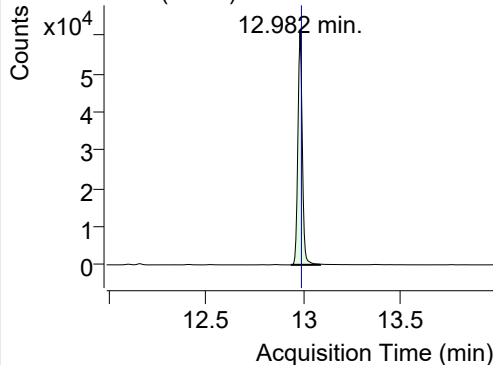
202.0, 101.0, 203.0



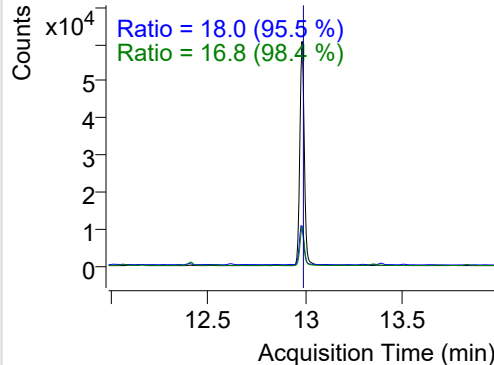
+ SIM (12.488-12.602 min, 22 scans) (**) 2207

**LSS-D10-Pyrene**

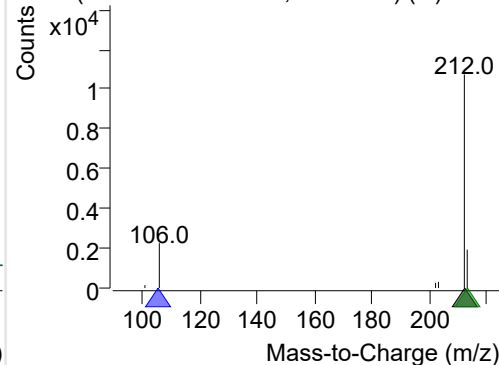
+ Selected Ion (212.0) 220707-PAHs-011.D



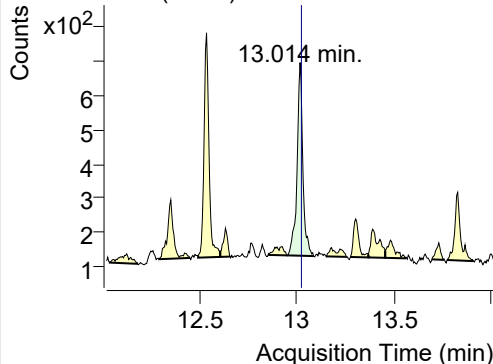
212.0, 106.0, 213.0



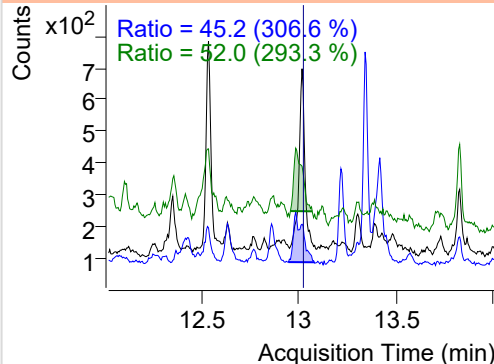
+ SIM (12.934-13.085 min, 28 scans) (**) 2207

**Pyrene**

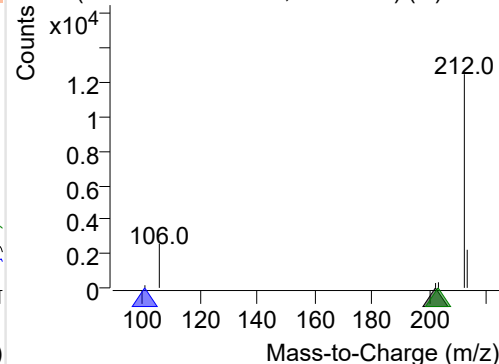
+ Selected Ion (202.0) 220707-PAHs-011.D



202.0, 101.0, 203.0



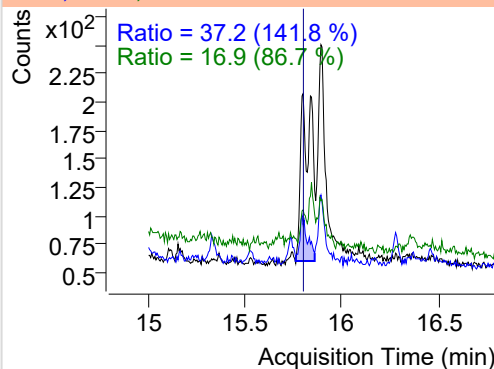
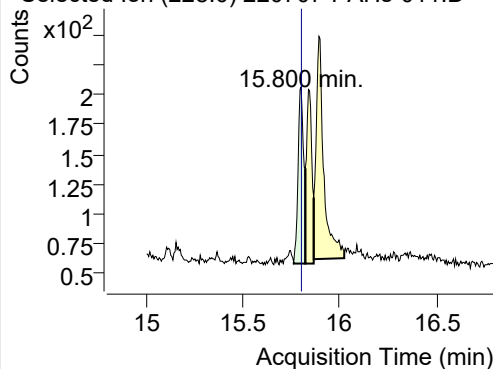
+ SIM (12.950-13.084 min, 24 scans) (**) 2207



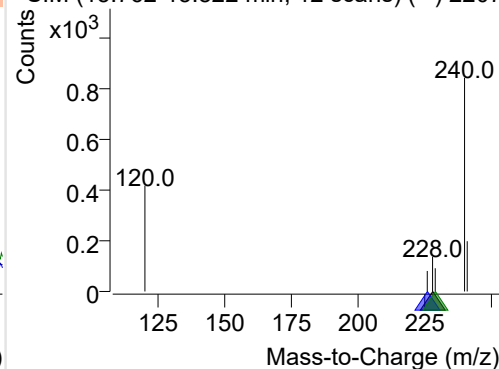
Benz(a)anthracene

+ Selected Ion (228.0) 220707-PAHs-011.D

228.0, 226.0, 229.0

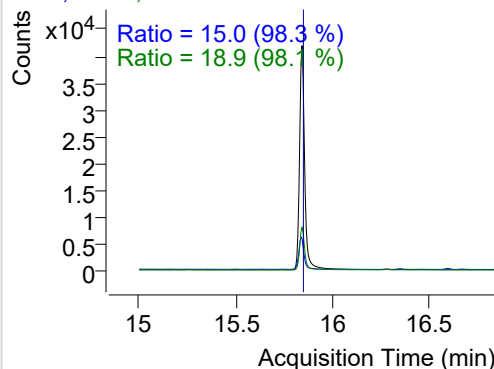
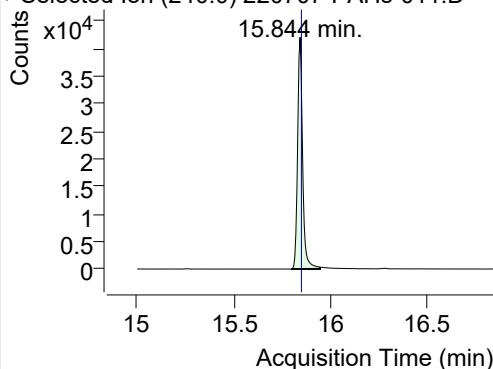


+ SIM (15.762-15.822 min, 12 scans) (**) 2207

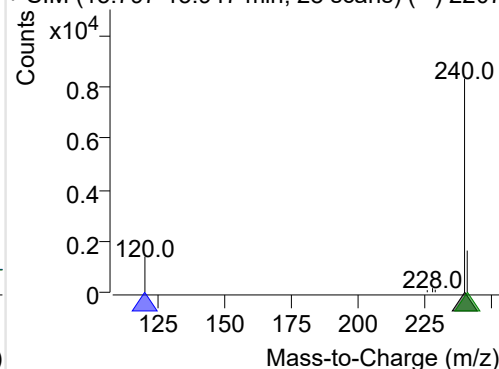
**IS-D12-Chrysene**

+ Selected Ion (240.0) 220707-PAHs-011.D

240.0, 120.0, 241.0

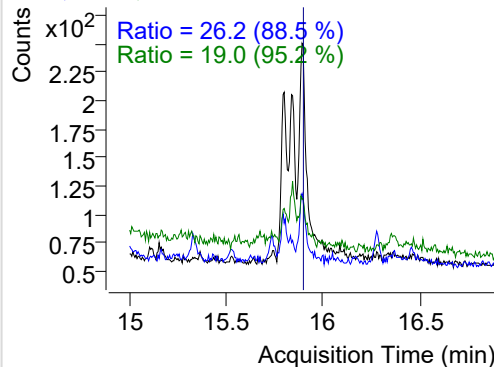
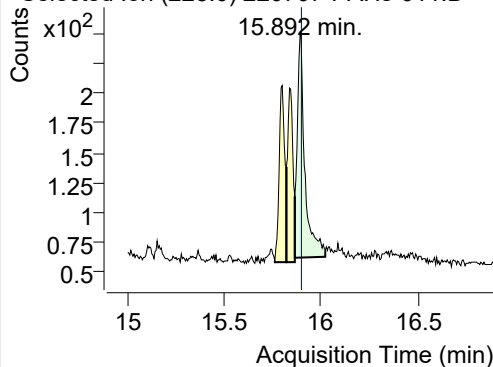


+ SIM (15.797-15.947 min, 28 scans) (**) 2207

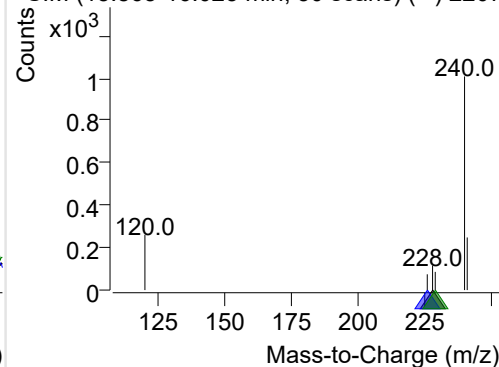
**Chrysene**

+ Selected Ion (228.0) 220707-PAHs-011.D

228.0, 226.0, 229.0

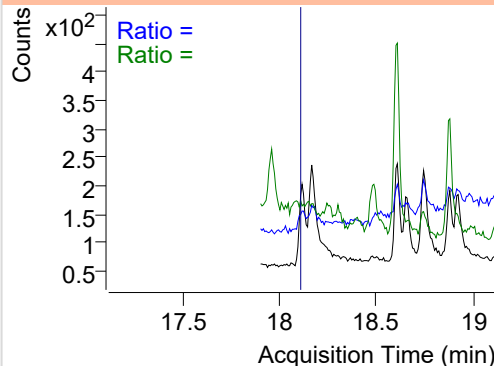
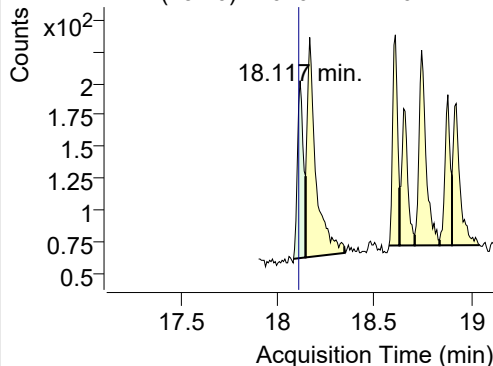


+ SIM (15.865-16.023 min, 30 scans) (**) 2207

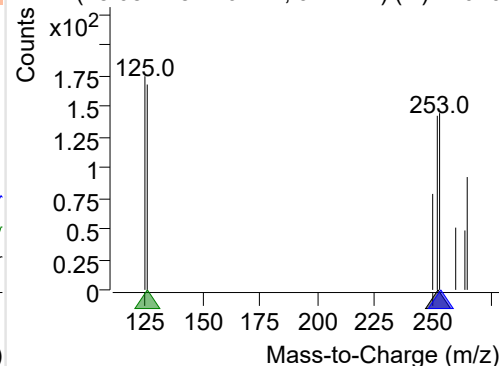
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 220707-PAHs-011.D

252.0, 253.0, 126.0



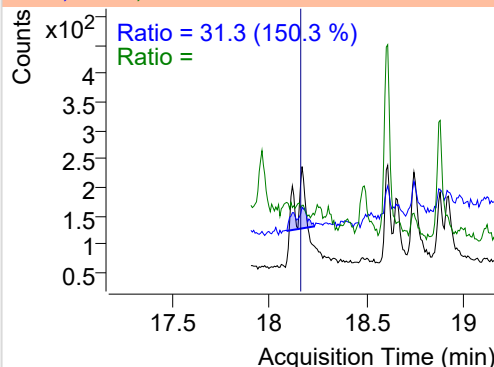
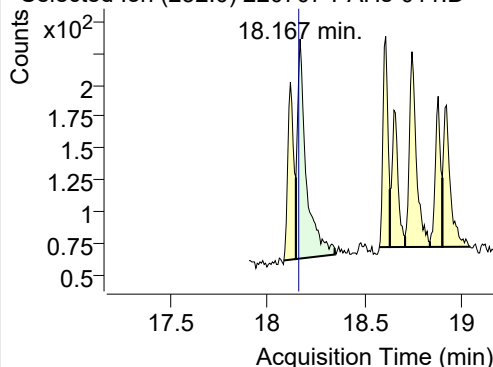
+ SIM (18.084-18.146 min, 9 scans) (**) 22070



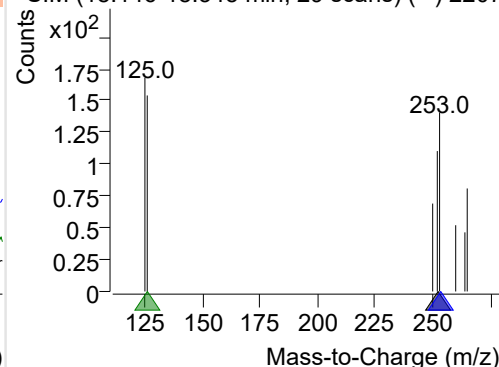
Benzo(k)fluoranthene

+ Selected Ion (252.0) 220707-PAHs-011.D

252.0, 253.0, 126.0

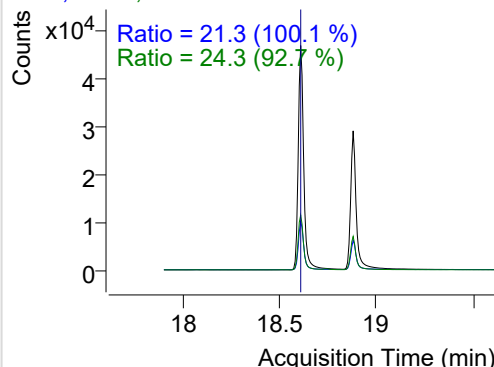
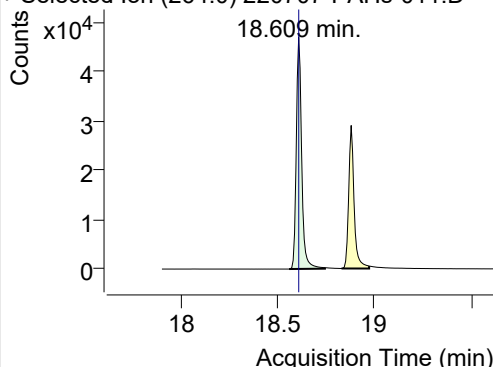


+ SIM (18.146-18.345 min, 29 scans) (**) 2207

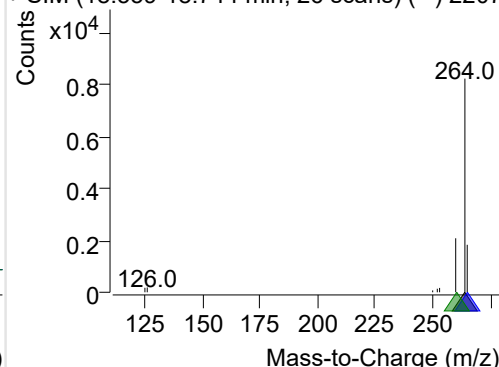
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 220707-PAHs-011.D

264.0, 265.0, 260.0

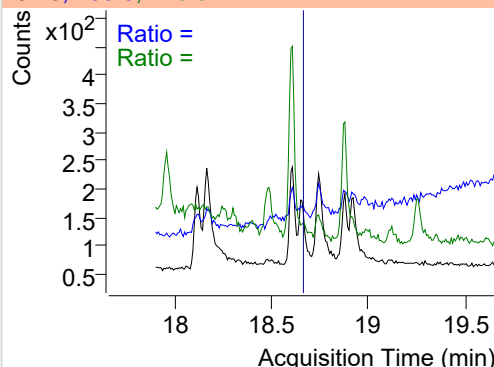
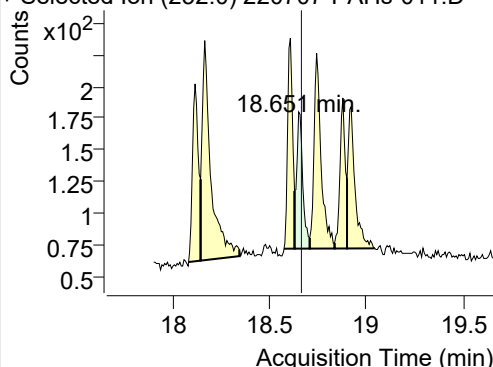


+ SIM (18.559-18.744 min, 26 scans) (**) 2207

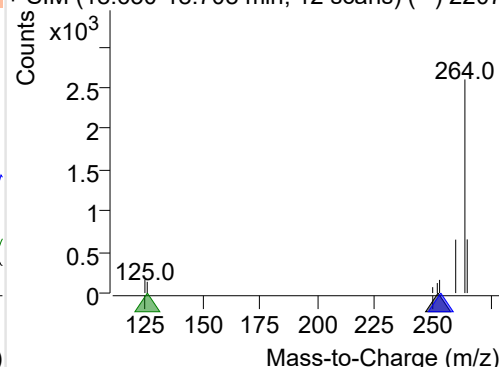
**Benzo(e)pyrene**

+ Selected Ion (252.0) 220707-PAHs-011.D

252.0, 253.0, 126.0

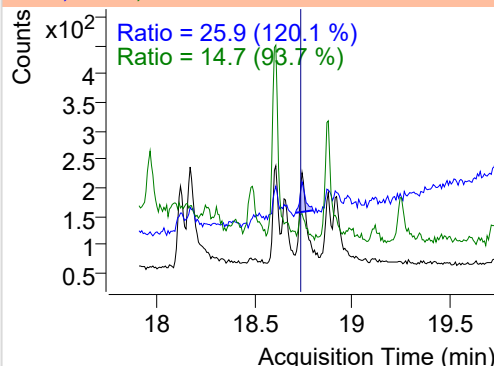
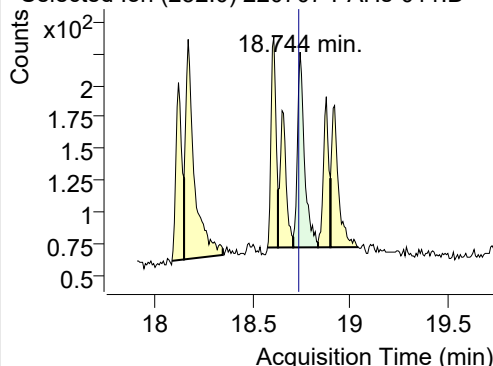


+ SIM (18.630-18.708 min, 12 scans) (**) 2207

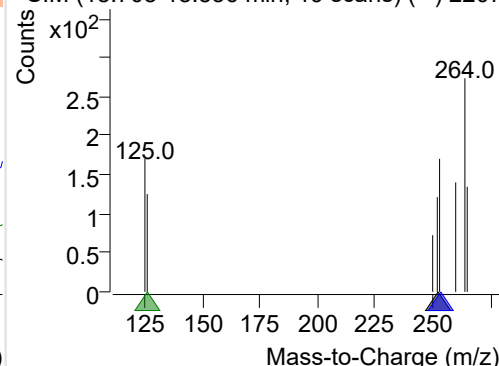
**Benzo(a)pyrene**

+ Selected Ion (252.0) 220707-PAHs-011.D

252.0, 253.0, 126.0

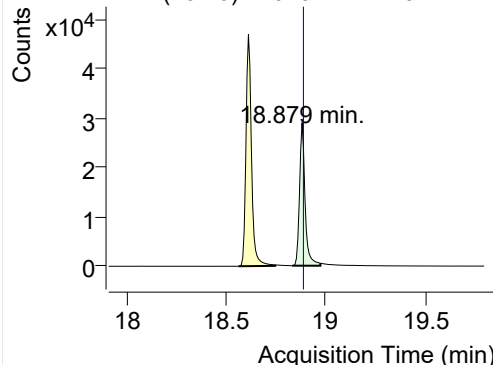


+ SIM (18.708-18.836 min, 19 scans) (**) 2207

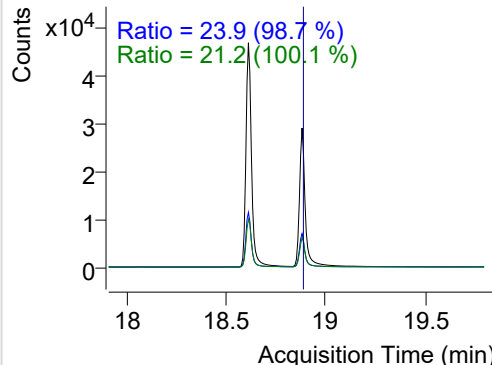


IS-D12-Perylene

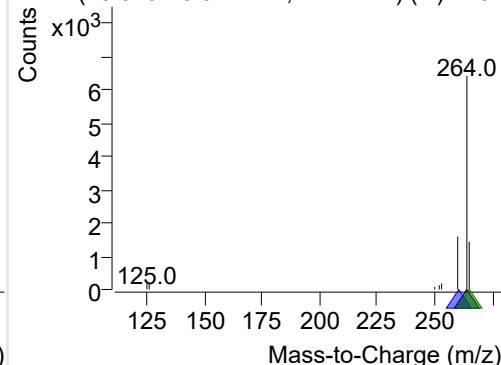
+ Selected Ion (264.0) 220707-PAHs-011.D



264.0, 260.0, 265.0

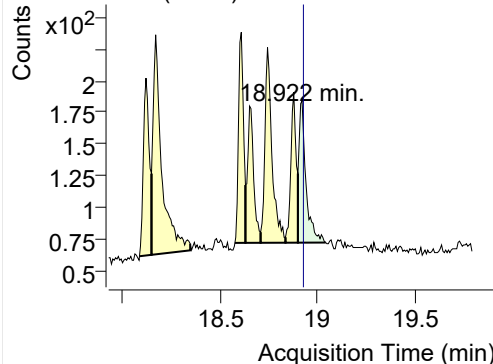


+ SIM (18.829-18.972 min, 21 scans) (**) 2207

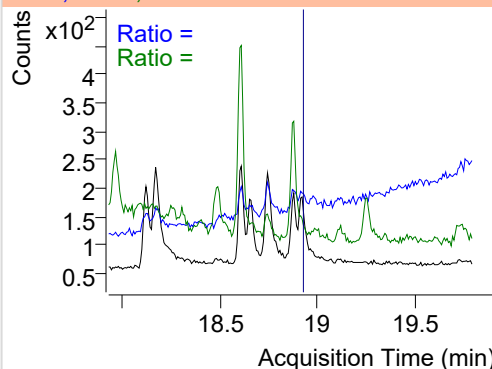


Perylene

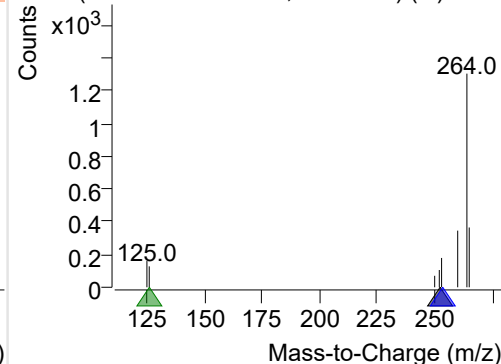
+ Selected Ion (252.0) 220707-PAHs-011.D



252.0, 253.0, 126.0

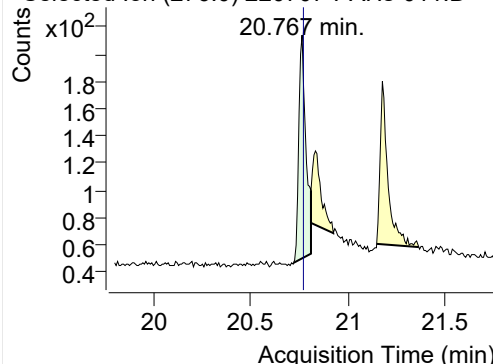


+ SIM (18.900-19.044 min, 21 scans) (**) 2207

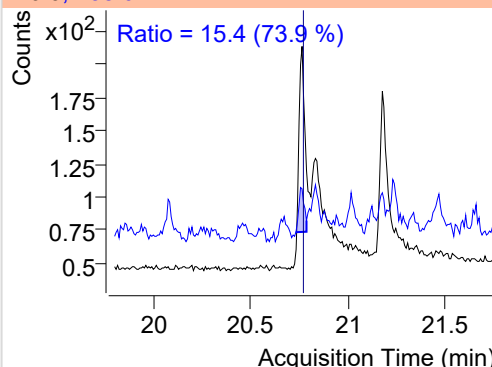


Indeno(1,2,3-c,d)pyrene

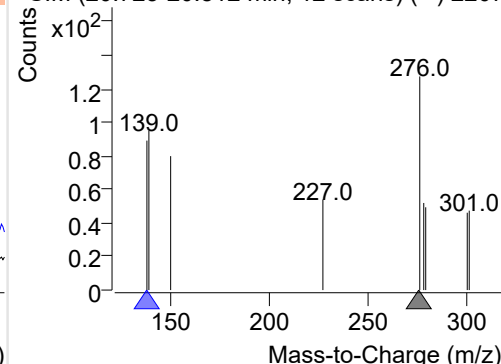
+ Selected Ion (276.0) 220707-PAHs-011.D



276.0, 138.0

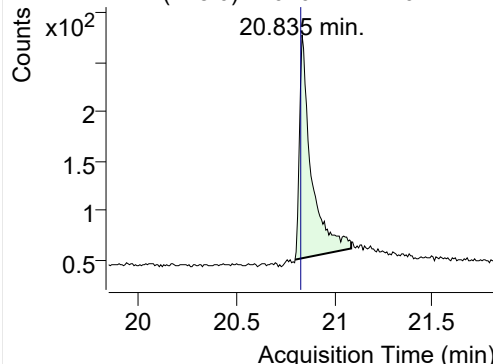


+ SIM (20.723-20.812 min, 12 scans) (**) 2207

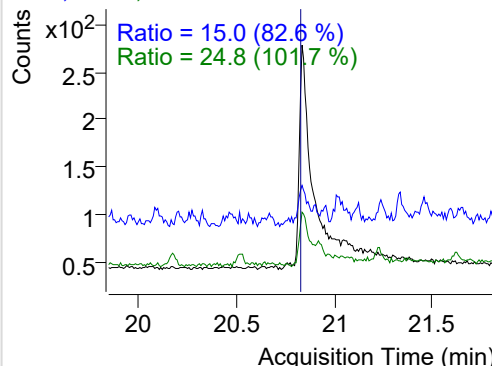


Dibenz(a,h)anthracene

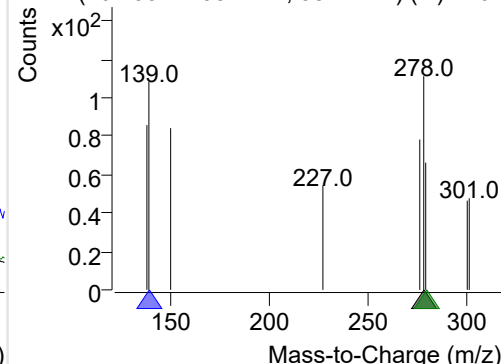
+ Selected Ion (278.0) 220707-PAHs-011.D



278.0, 139.0, 279.0

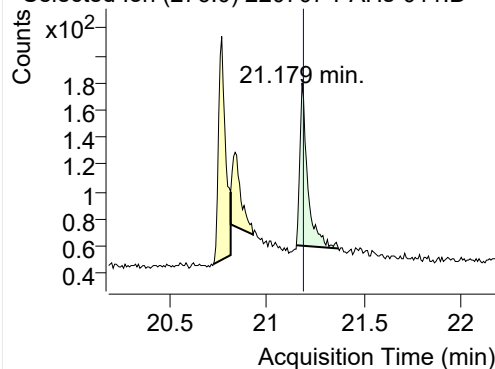


+ SIM (20.799-21.087 min, 38 scans) (**) 2207

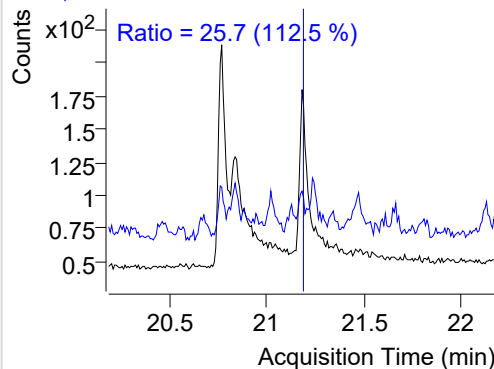


Benzo(g,h,i)perylene

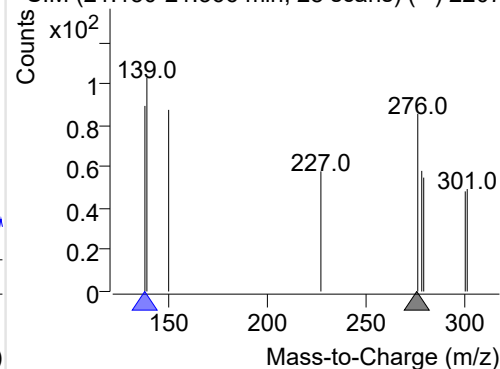
+ Selected Ion (276.0) 220707-PAHs-011.D



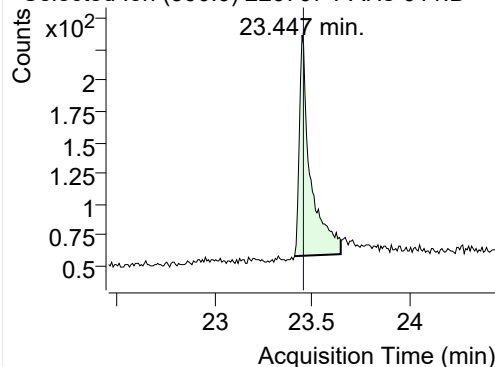
276.0, 138.0



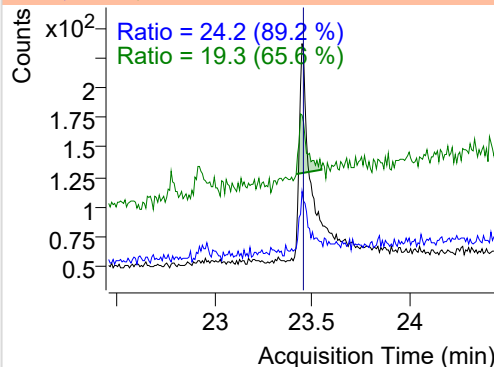
+ SIM (21.150-21.366 min, 28 scans) (**) 2207

**Coronene**

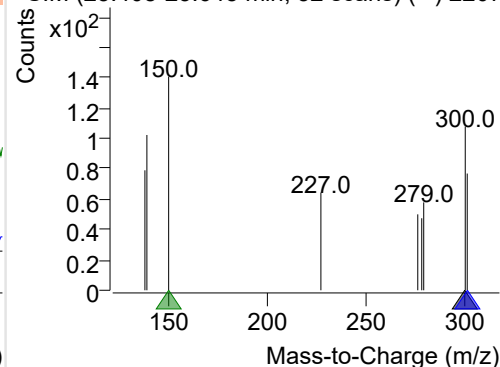
+ Selected Ion (300.0) 220707-PAHs-011.D



300.0, 301.0, 150.0



+ SIM (23.408-23.645 min, 32 scans) (**) 2207



Quantitative Analysis Sample Based Report

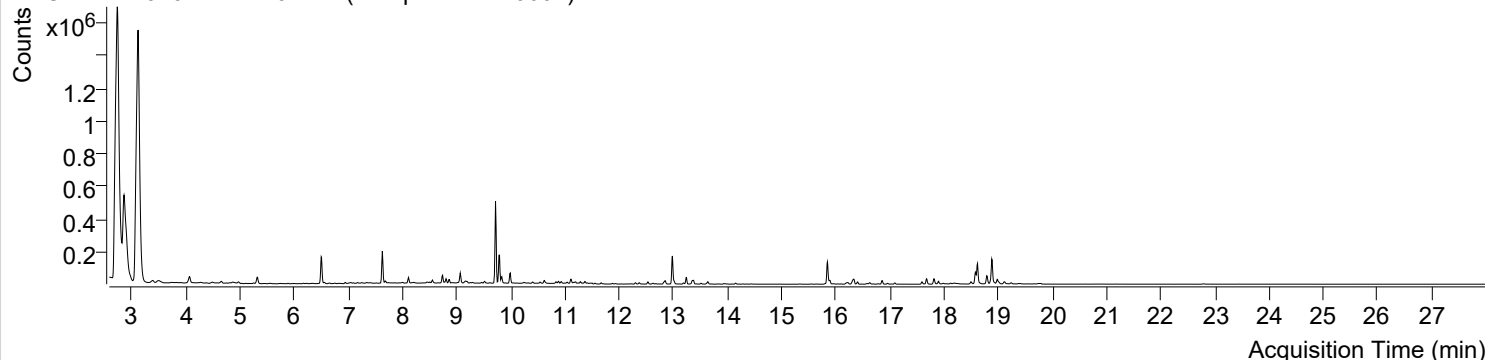


Trusted Answers

| | | | |
|---------------------------|--|-----------------------|------------------------|
| Batch Data Path File Name | D:\MassHunter\GCMS\1\data\PAHs\220707-PAHs-Sample\QuantResults\220707-PAHs-Quant.batch.bin | | |
| Analysis Time Stamp | 2022-07-09 오전 11:12:52 | Analyst Name | DESKTOP-86B7UPG\5975MS |
| Report Generation Time | 2022-07-09 오전 11:13:20 | Report Generator Name | DESKTOP-86B7UPG\5975MS |
| Calibration Last Update | 2022-07-09 오전 11:04:15 | Batch State | Processed |
| Analyze Quant Version | 10.2 | Report Quant Version | 10.2 |
| Acq. Date-Time | 2022-07-07 오후 7:01:44 | Data File | 220707-PAHs-012.D |
| Type | Sample | Name | Sample-PM-220604 |
| Dil. | 1 | Acq. Method File | PAHs 19mix-Method |

Sample Chromatogram

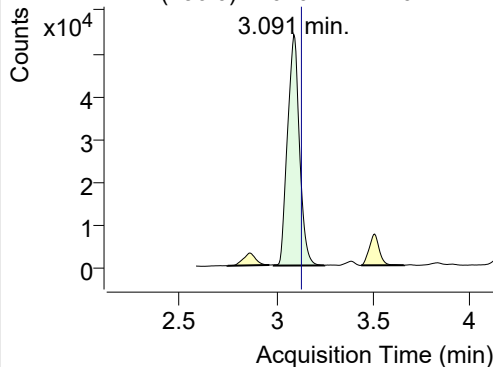
+ TIC SIM 220707-PAHs-012.D (Sample-PM-220604)



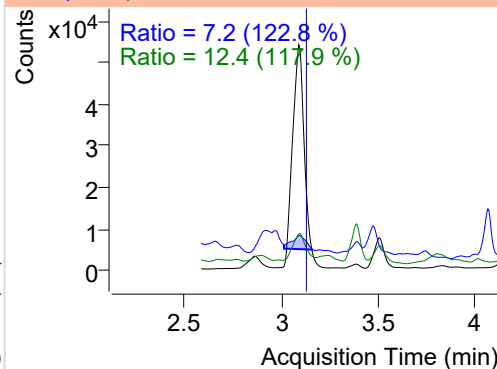
| Name | RT | Transition | Resp. | Height | Final Conc. Units | Ratio |
|-------------------------|--------|------------|---------|------------|-------------------|-------|
| IS-D8-Naphthalene | 3.091 | 136.0 | 231179 | 53966.03 | ND ng/ml | 12.4 |
| Naphthalene | 3.118 | 128.0 | 5205045 | 1218978.23 | ND ng/ml | 11.5 |
| Acenaphthylene | 6.167 | 152.0 | 3835 | 1976.61 | ND ng/ml | 6.8 |
| IS-D10-Acenaphthene | 6.499 | 164.0 | 144413 | 78618.89 | ND ng/ml | 95.7 |
| Acenaphthene | 6.564 | 154.0 | 4263 | 1994.41 | ND ng/ml | 97.9 |
| LSS-D10-Fluorene | 7.627 | 176.0 | 141580 | 89021.42 | ND ng/ml | 92.5 |
| Fluorene | 7.680 | 166.0 | 10166 | 5559.44 | ND ng/ml | 104.7 |
| IS-D10-Phenanthrene | 9.791 | 188.0 | 245330 | 139797.08 | ND ng/ml | 15.8 |
| Phenanthrene | 9.833 | 178.0 | 40664 | 24340.94 | ND ng/ml | 19.4 |
| Anthracene | 9.990 | 178.0 | 27998 | 17620.94 | ND ng/ml | 27.7 |
| Fluoranthene | 12.532 | 202.0 | 16546 | 10167.87 | ND ng/ml | 19.9 |
| LSS-D10-Pyrene | 12.982 | 212.0 | 206407 | 127411.17 | ND ng/ml | 18.2 |
| Pyrene | 13.014 | 202.0 | 20332 | 11783.52 | ND ng/ml | 15.2 |
| Benz(a)anthracene | 15.800 | 228.0 | 1342 | 687.62 | ND ng/ml | 16.6 |
| IS-D12-Chrysene | 15.844 | 240.0 | 186738 | 101985.30 | ND ng/ml | 19.1 |
| Chrysene | 15.892 | 228.0 | 6228 | 2918.08 | ND ng/ml | 25.3 |
| Benzo(b)fluoranthene | 18.125 | 252.0 | 2922 | 1628.00 | ND ng/ml | 25.1 |
| Benzo(k)fluoranthene | 18.167 | 252.0 | 1816 | 859.00 | ND ng/ml | 45.1 |
| SS-D12-Benzo(e)pyrene | 18.616 | 264.0 | 165705 | 84219.60 | ND ng/ml | 23.9 |
| Benzo(e)pyrene | 18.658 | 252.0 | 2773 | 1361.92 | ND ng/ml | 9.0 |
| Benzo(a)pyrene | 18.787 | 252.0 | 4675 | 1852.26 | ND ng/ml | 10.3 |
| IS-D12-Perylene | 18.879 | 264.0 | 204090 | 102072.18 | ND ng/ml | 24.2 |
| Perylene | 18.922 | 252.0 | 523 | 241.87 | ND ng/ml | 20.1 |
| Indeno(1,2,3-c,d)pyrene | 20.767 | 276.0 | 1058 | 430.24 | ND ng/ml | 14.8 |
| Dibenz(a,h)anthracene | 20.835 | 278.0 | 1478 | 341.05 | ND ng/ml | 15.5 |
| Benzo(g,h,i)perylene | 21.179 | 276.0 | 1329 | 454.85 | ND ng/ml | 19.5 |
| Coronene | 23.447 | 300.0 | 980 | 265.71 | ND ng/ml | 24.9 |

IS-D8-Naphthalene

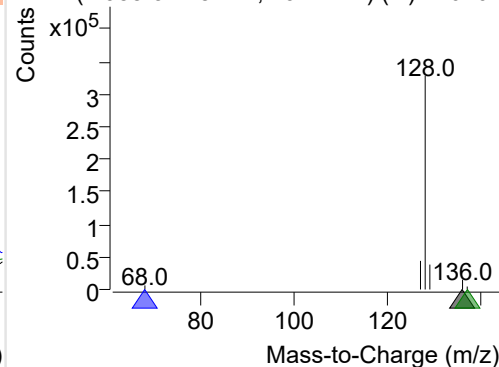
+ Selected Ion (136.0) 220707-PAHs-012.D



136.0, 68.0, 137.0

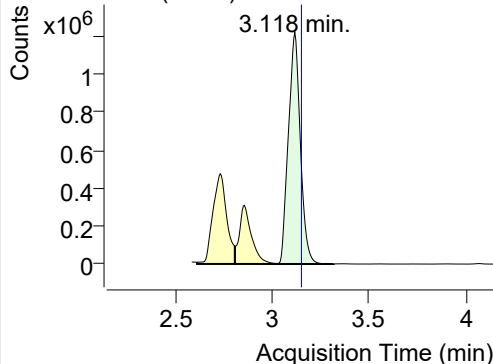


+ SIM (2.988-3.248 min, 49 scans) (**) 220707

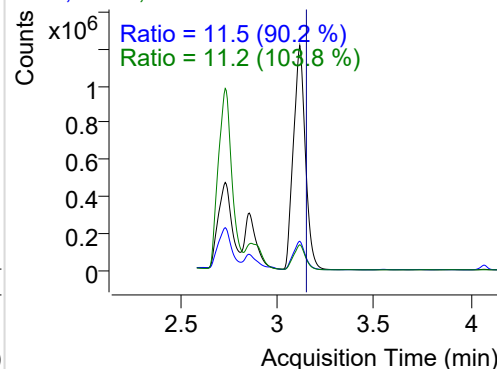


Naphthalene

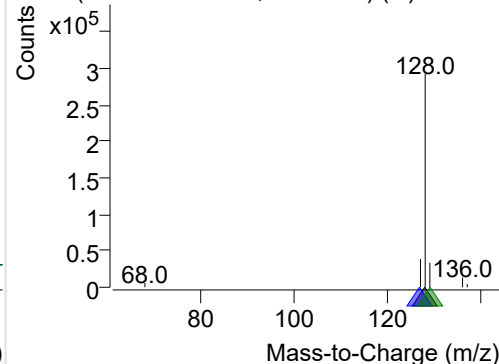
+ Selected Ion (128.0) 220707-PAHs-012.D



128.0, 127.0, 129.0

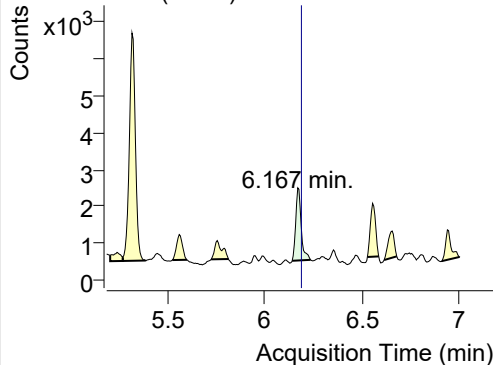


+ SIM (3.026-3.318 min, 55 scans) (**) 220707

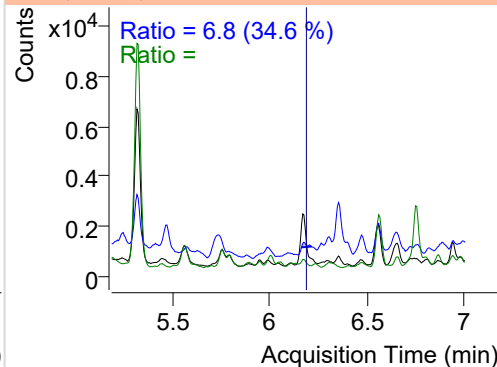


Acenaphthylene

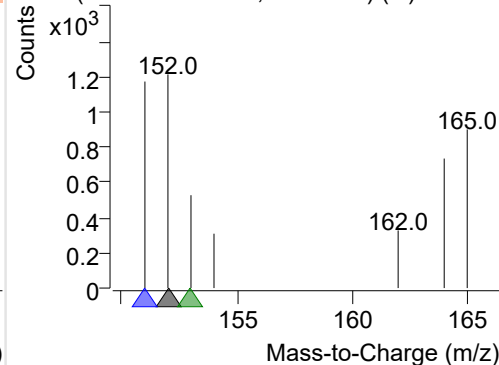
+ Selected Ion (152.0) 220707-PAHs-012.D



152.0, 151.0, 153.0

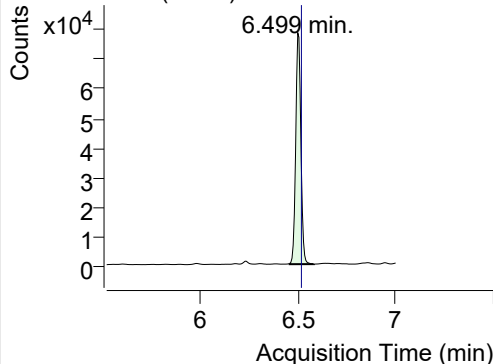


+ SIM (6.138-6.233 min, 16 scans) (**) 220707

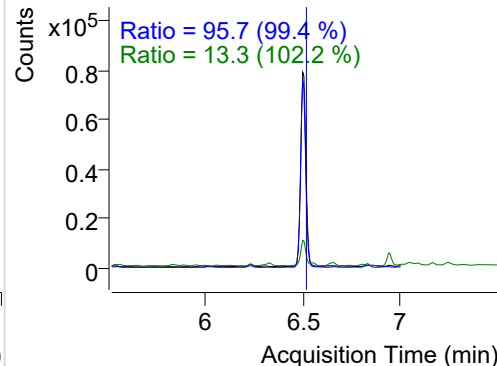


IS-D10-Acenaphthene

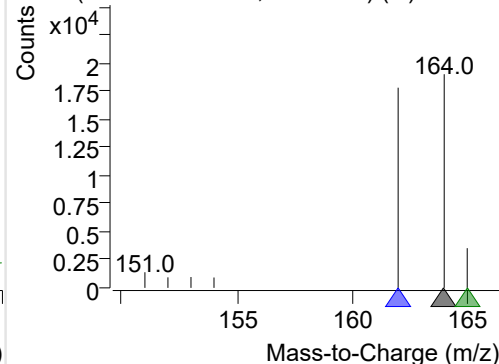
+ Selected Ion (164.0) 220707-PAHs-012.D



164.0, 162.0, 165.0

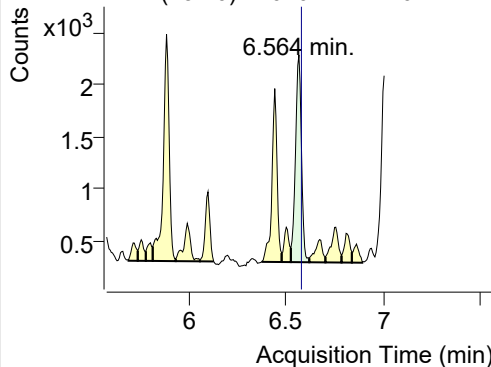


+ SIM (6.457-6.582 min, 22 scans) (**) 220707

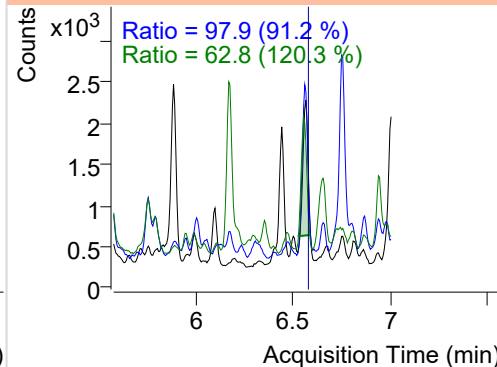


Acenaphthene

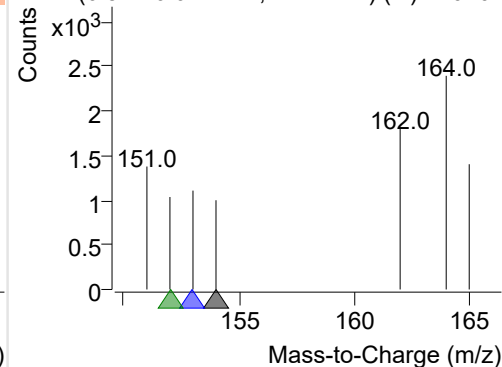
+ Selected Ion (154.0) 220707-PAHs-012.D



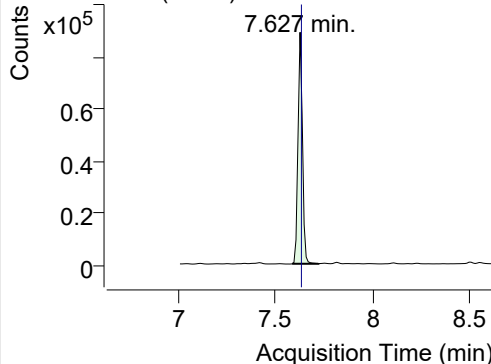
154.0, 153.0, 152.0



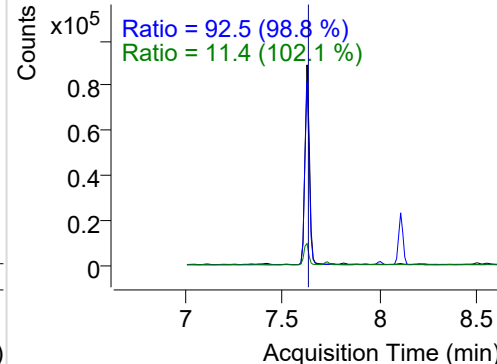
+ SIM (6.522-6.617 min, 17 scans) (**) 220707

**LSS-D10-Fluorene**

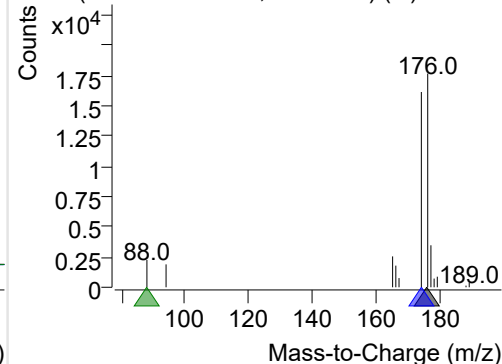
+ Selected Ion (176.0) 220707-PAHs-012.D



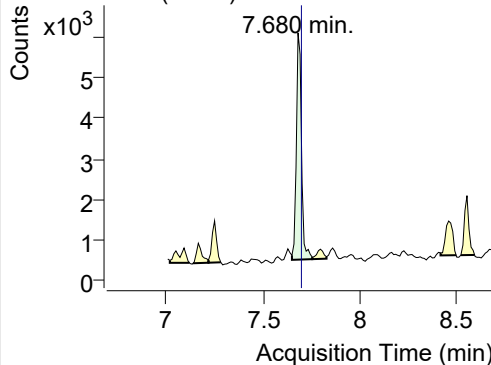
176.0, 174.0, 88.0



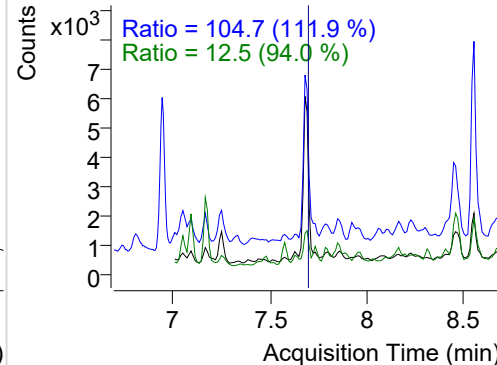
+ SIM (7.586-7.722 min, 13 scans) (**) 220707

**Fluorene**

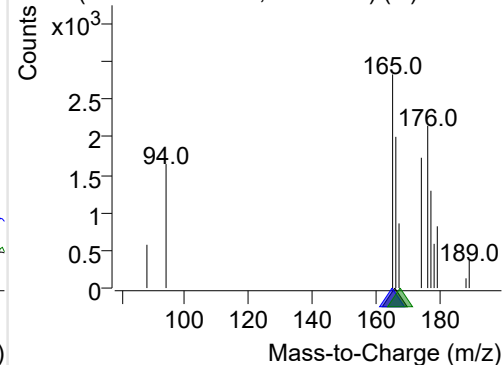
+ Selected Ion (166.0) 220707-PAHs-012.D



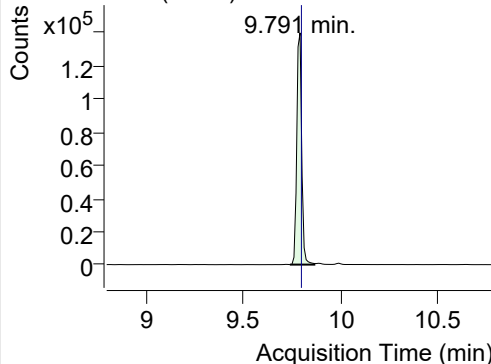
166.0, 165.0, 167.0



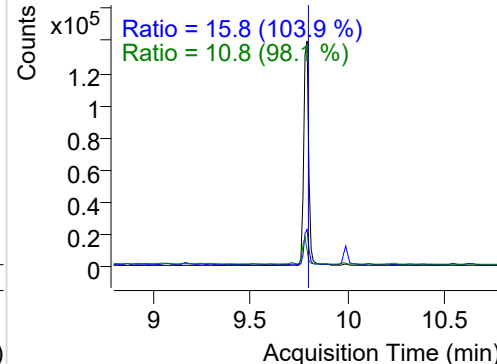
+ SIM (7.648-7.753 min, 11 scans) (**) 220707

**IS-D10-Phenanthrene**

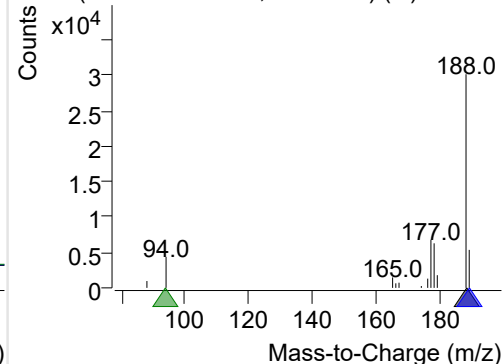
+ Selected Ion (188.0) 220707-PAHs-012.D



188.0, 189.0, 94.0

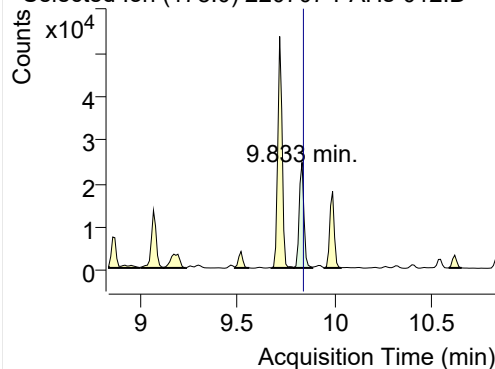


+ SIM (9.738-9.864 min, 13 scans) (**) 220707

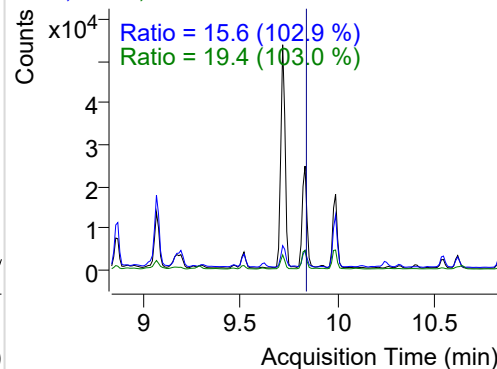


Phenanthrene

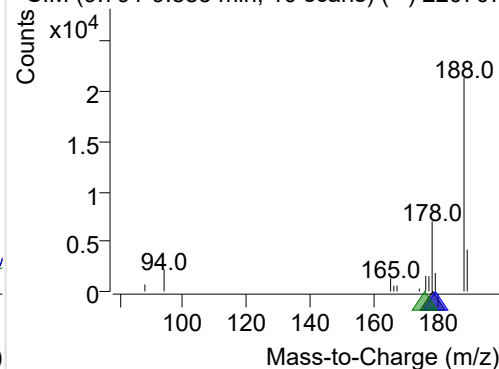
+ Selected Ion (178.0) 220707-PAHs-012.D



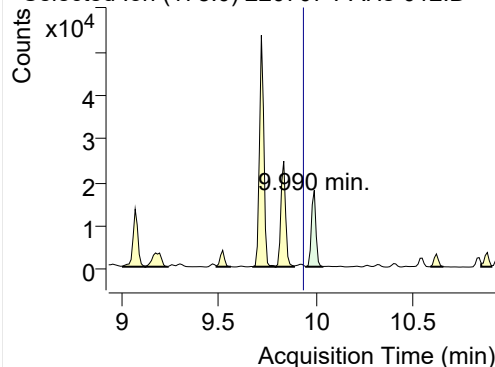
178.0, 179.0, 176.0



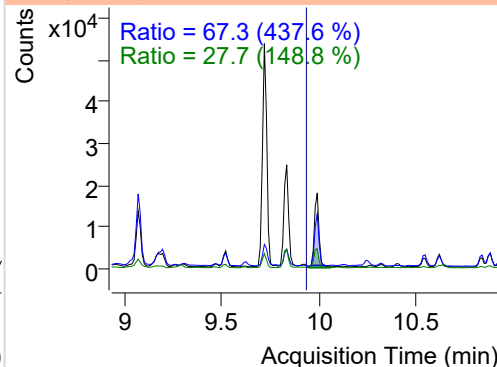
+ SIM (9.791-9.885 min, 10 scans) (**) 220707

**Anthracene**

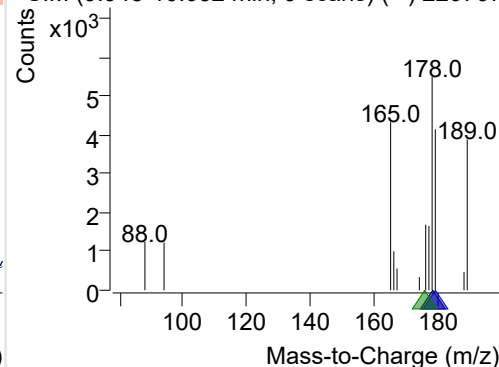
+ Selected Ion (178.0) 220707-PAHs-012.D



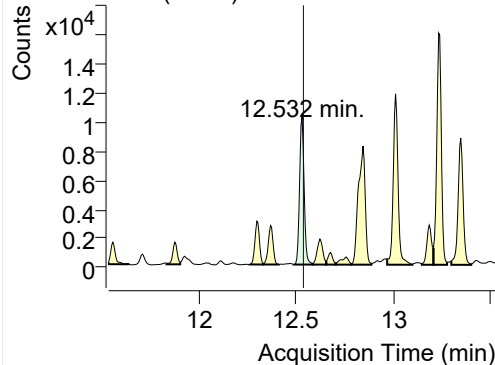
178.0, 179.0, 176.0



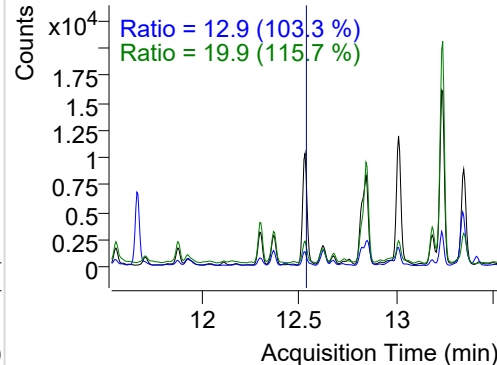
+ SIM (9.948-10.032 min, 9 scans) (**) 220707

**Fluoranthene**

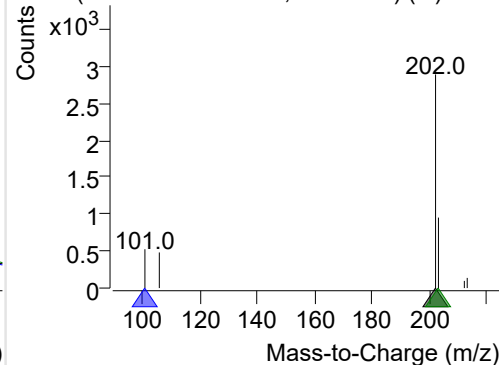
+ Selected Ion (202.0) 220707-PAHs-012.D



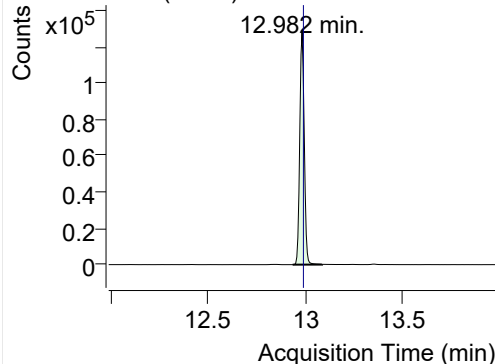
202.0, 101.0, 203.0



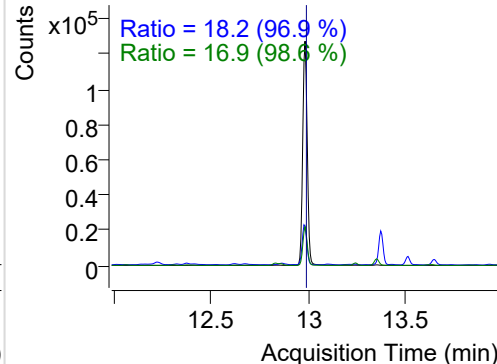
+ SIM (12.488-12.586 min, 19 scans) (**) 2207

**LSS-D10-Pyrene**

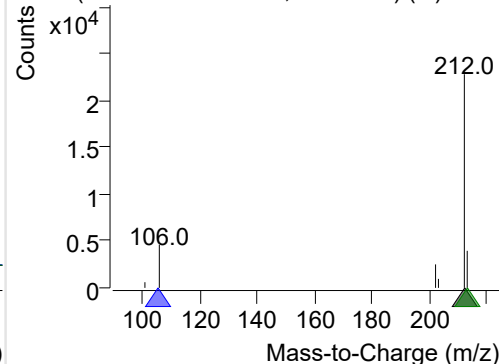
+ Selected Ion (212.0) 220707-PAHs-012.D



212.0, 106.0, 213.0

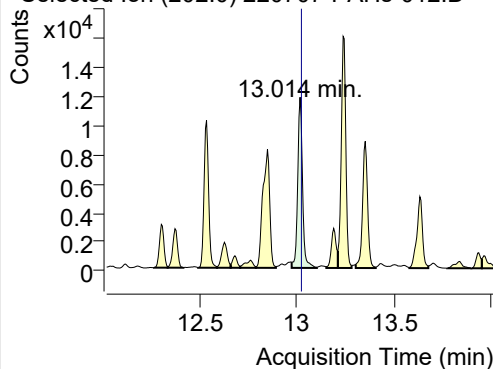


+ SIM (12.933-13.085 min, 28 scans) (**) 2207

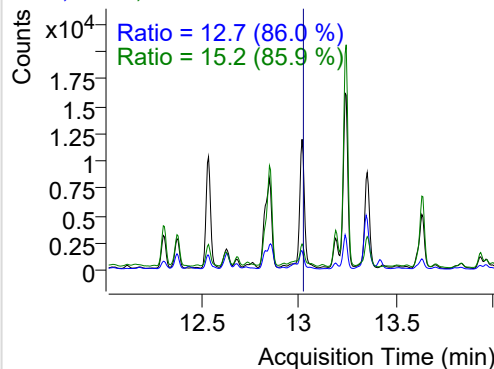


Pyrene

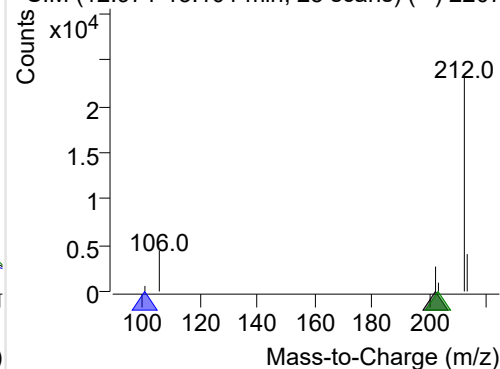
+ Selected Ion (202.0) 220707-PAHs-012.D



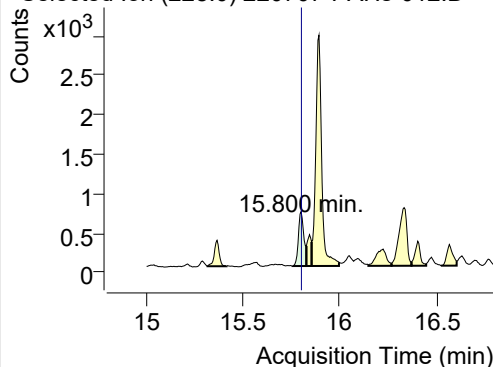
202.0, 101.0, 203.0



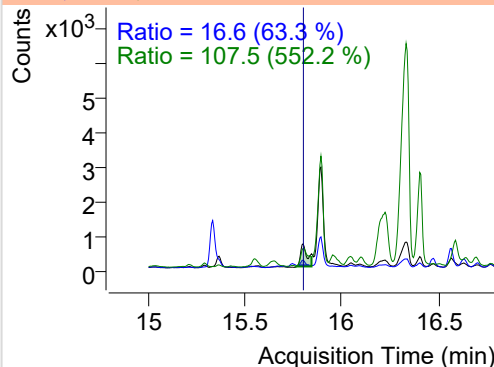
+ SIM (12.971-13.101 min, 25 scans) (**) 2207

**Benz(a)anthracene**

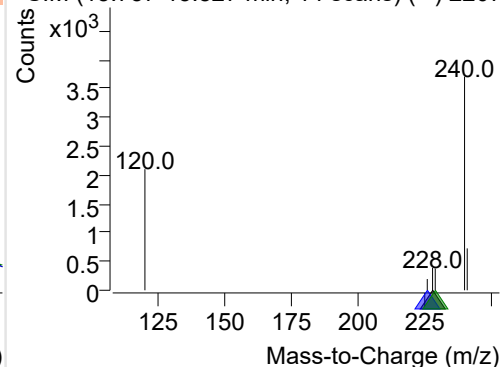
+ Selected Ion (228.0) 220707-PAHs-012.D



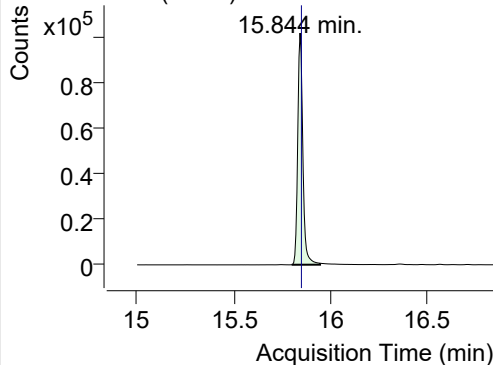
228.0, 226.0, 229.0



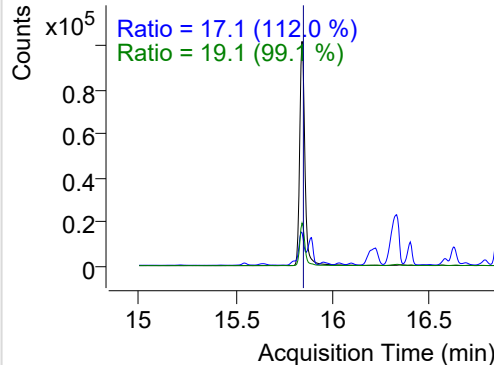
+ SIM (15.757-15.827 min, 14 scans) (**) 2207

**IS-D12-Chrysene**

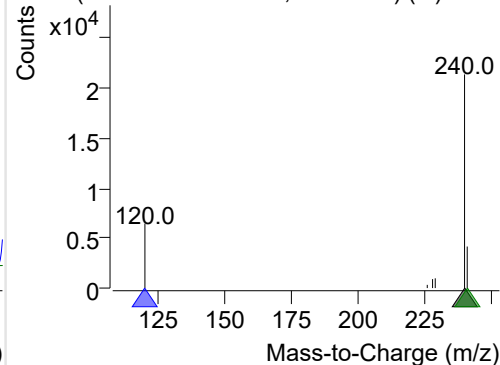
+ Selected Ion (240.0) 220707-PAHs-012.D



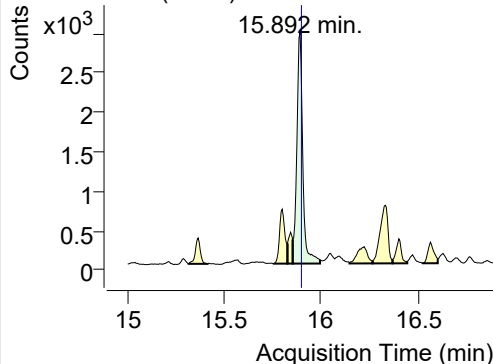
240.0, 120.0, 241.0



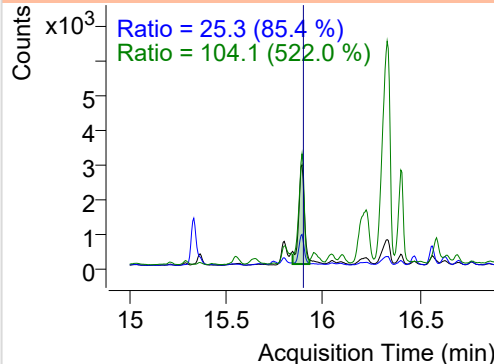
+ SIM (15.800-15.947 min, 27 scans) (**) 2207

**Chrysene**

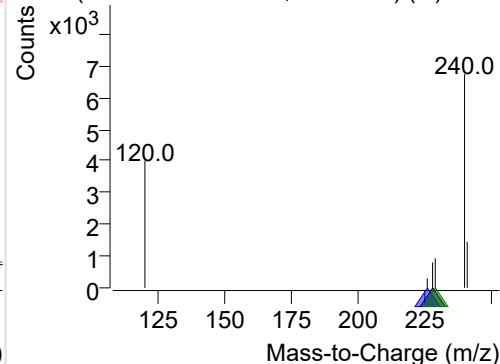
+ Selected Ion (228.0) 220707-PAHs-012.D



228.0, 226.0, 229.0



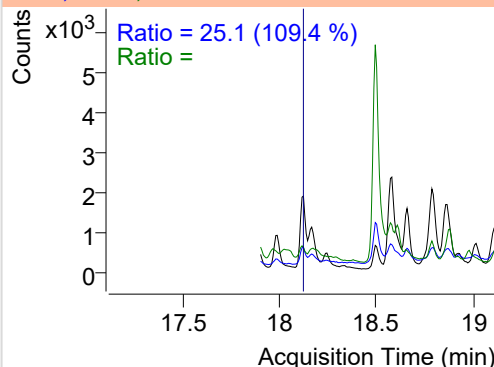
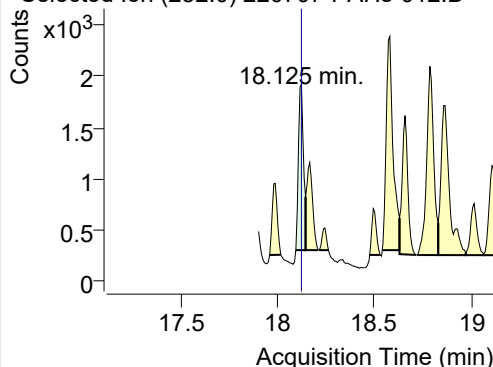
+ SIM (15.855-15.995 min, 27 scans) (**) 2207



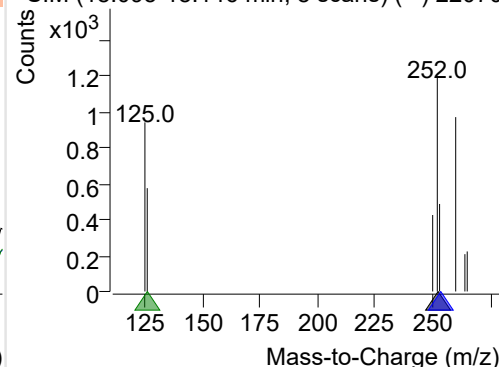
Benzo(b)fluoranthene

+ Selected Ion (252.0) 220707-PAHs-012.D

252.0, 253.0, 126.0

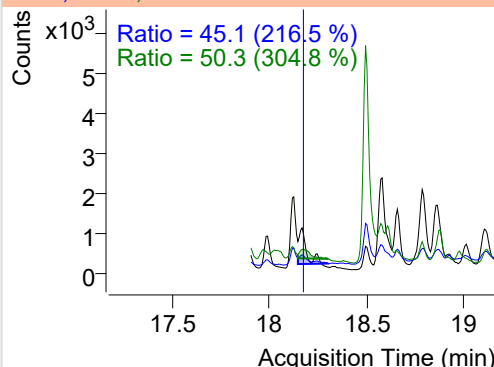
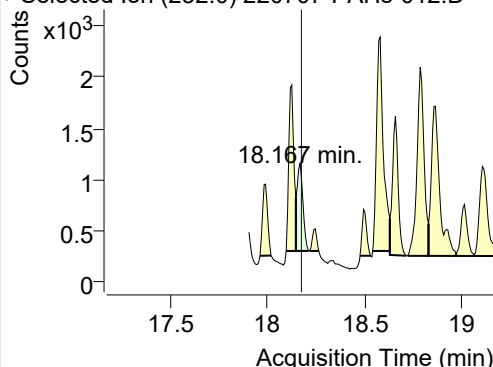


+ SIM (18.095-18.146 min, 8 scans) (**) 22070

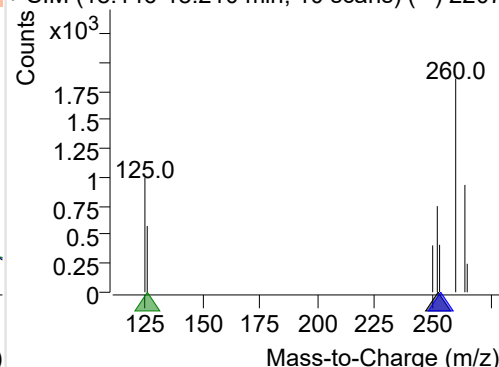
**Benzo(k)fluoranthene**

+ Selected Ion (252.0) 220707-PAHs-012.D

252.0, 253.0, 126.0

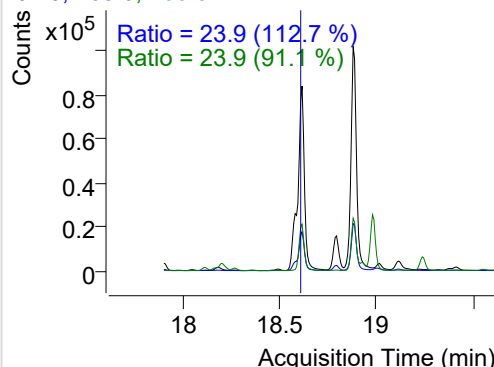
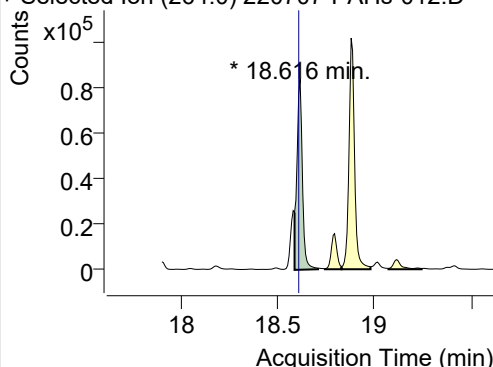


+ SIM (18.146-18.210 min, 10 scans) (**) 2207

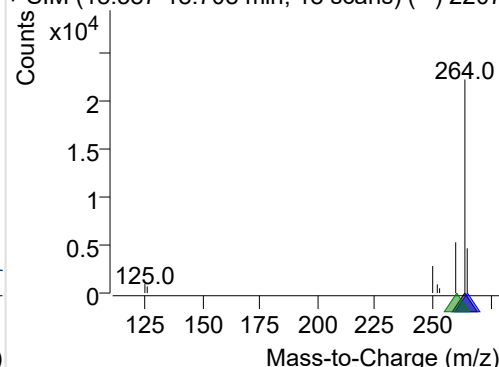
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 220707-PAHs-012.D

264.0, 265.0, 260.0

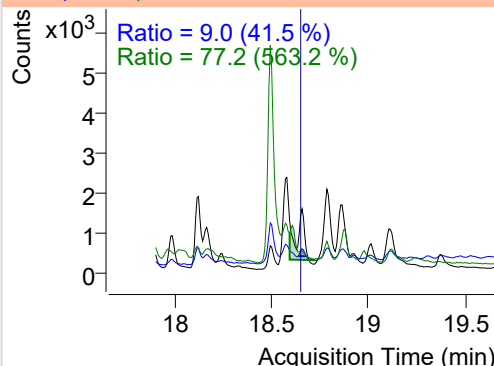
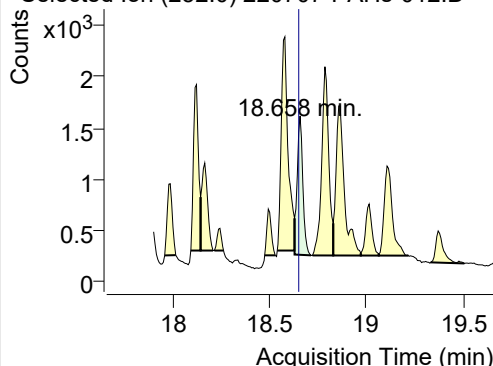


+ SIM (18.587-18.708 min, 18 scans) (**) 2207

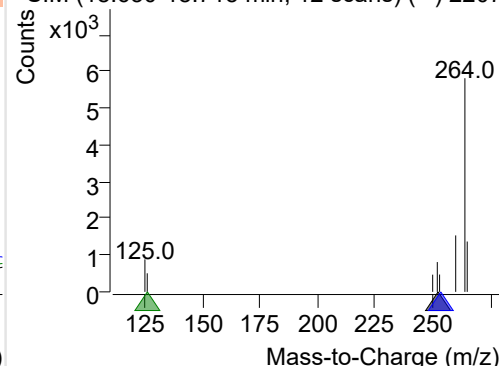
**Benzo(e)pyrene**

+ Selected Ion (252.0) 220707-PAHs-012.D

252.0, 253.0, 126.0



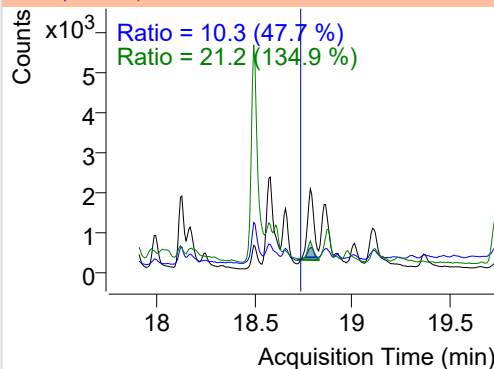
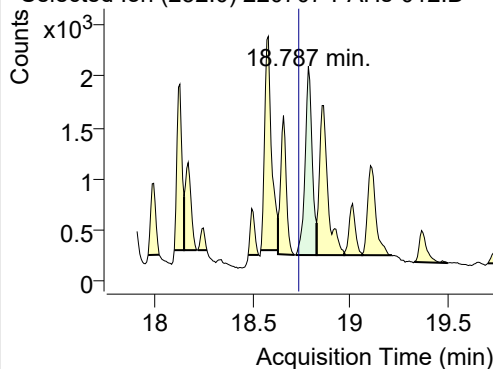
+ SIM (18.630-18.715 min, 12 scans) (**) 2207



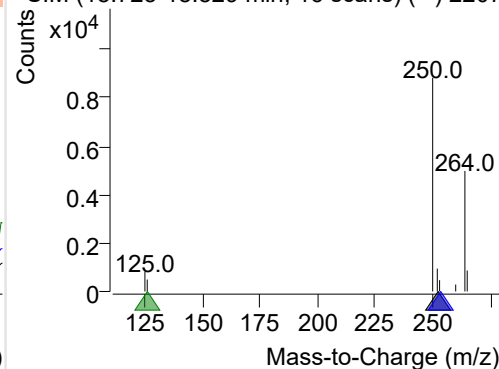
Benzo(a)pyrene

+ Selected Ion (252.0) 220707-PAHs-012.D

252.0, 253.0, 126.0

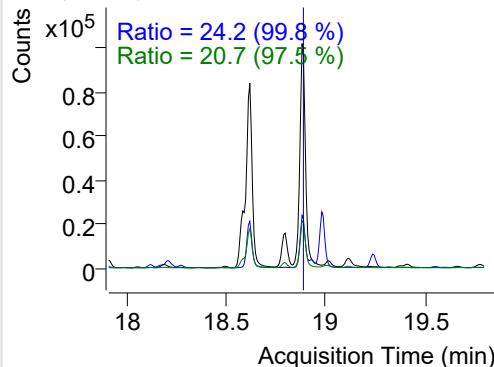
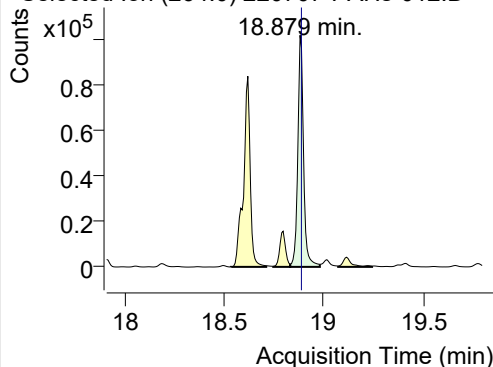


+ SIM (18.723-18.829 min, 16 scans) (**) 2207

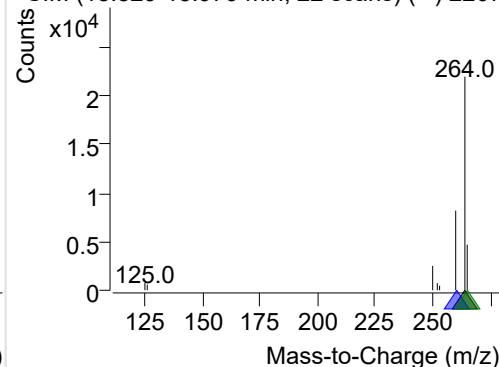
**IS-D12-Perylene**

+ Selected Ion (264.0) 220707-PAHs-012.D

264.0, 260.0, 265.0

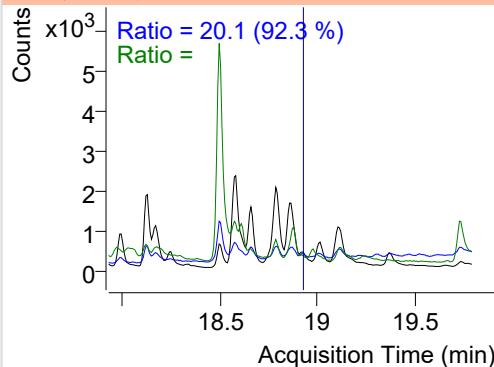
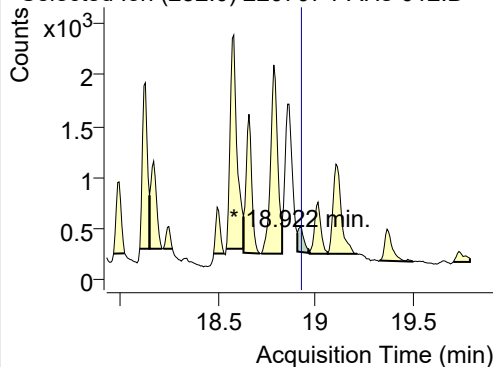


+ SIM (18.829-18.979 min, 22 scans) (**) 2207

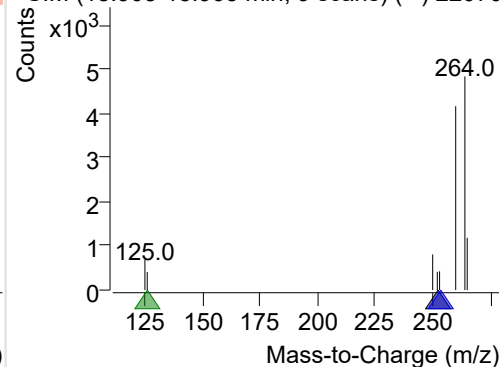
**Perylene**

+ Selected Ion (252.0) 220707-PAHs-012.D

252.0, 253.0, 126.0

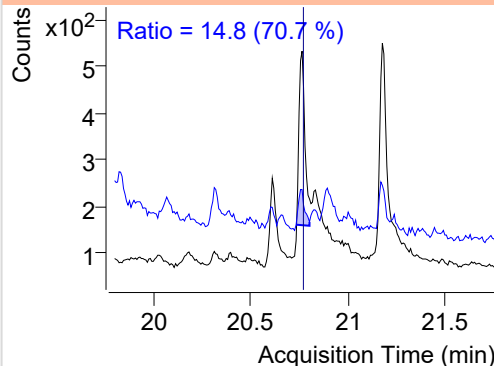
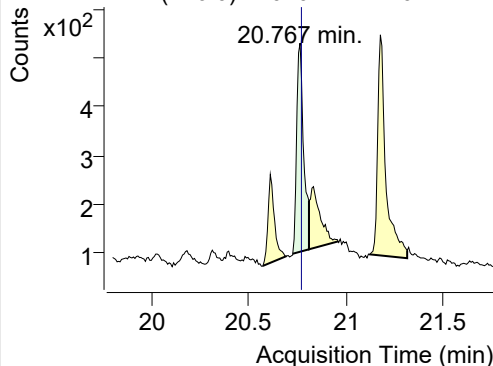


+ SIM (18.908-18.965 min, 9 scans) (**) 22070

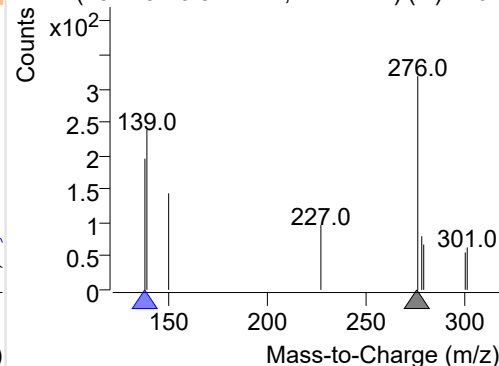
**Indeno(1,2,3-c,d)pyrene**

+ Selected Ion (276.0) 220707-PAHs-012.D

276.0, 138.0



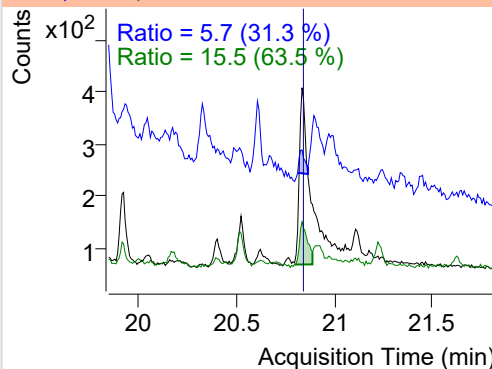
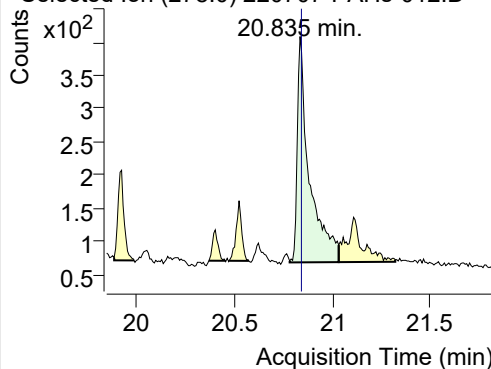
+ SIM (20.729-20.812 min, 11 scans) (**) 2207



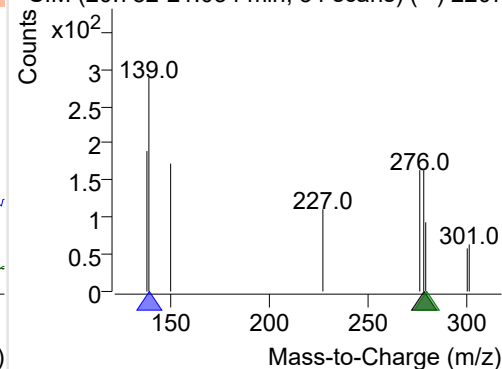
Dibenz(a,h)anthracene

+ Selected Ion (278.0) 220707-PAHs-012.D

278.0, 139.0, 279.0

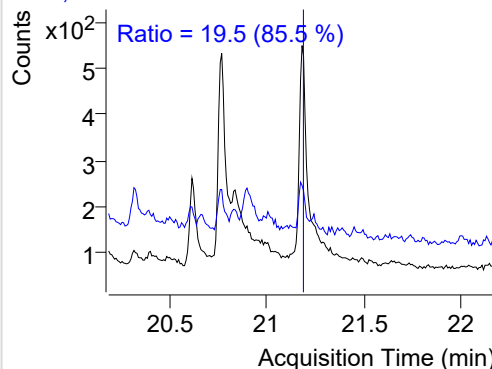
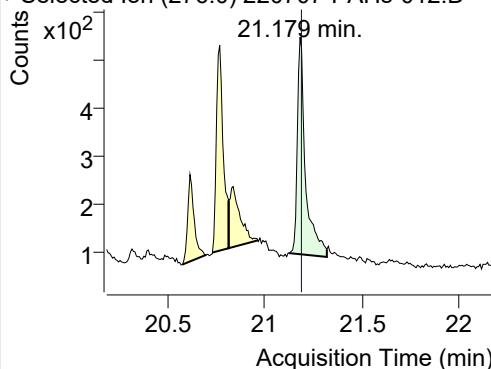


+ SIM (20.782-21.034 min, 34 scans) (**) 2207

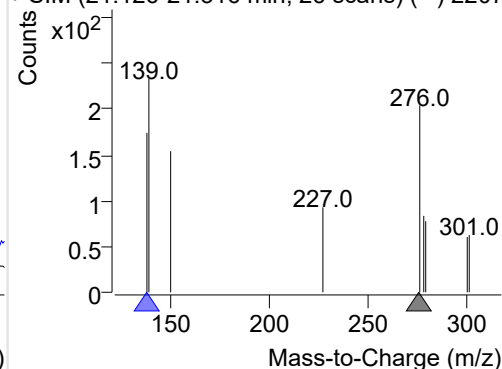
**Benzo(g,h,i)perylene**

+ Selected Ion (276.0) 220707-PAHs-012.D

276.0, 138.0

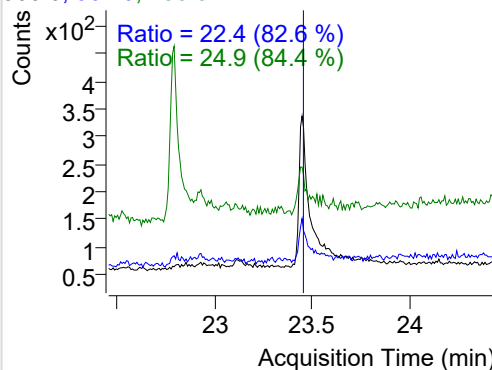
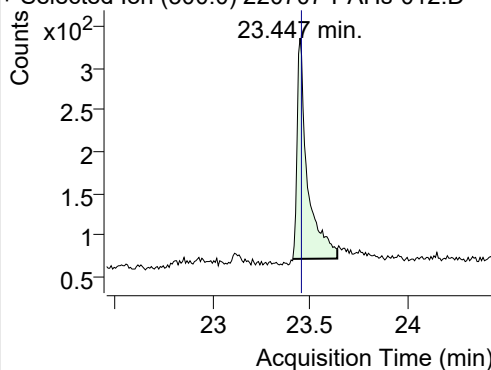


+ SIM (21.126-21.316 min, 26 scans) (**) 2207

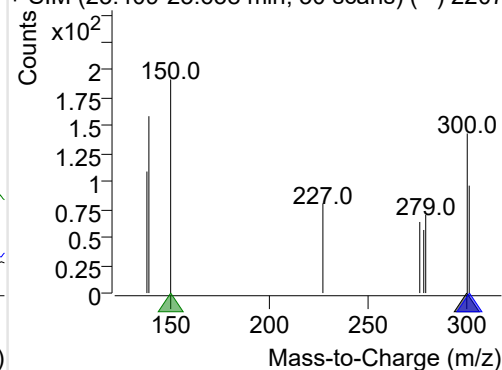
**Coronene**

+ Selected Ion (300.0) 220707-PAHs-012.D

300.0, 301.0, 150.0



+ SIM (23.409-23.638 min, 30 scans) (**) 2207



Quantitative Analysis Sample Based Report

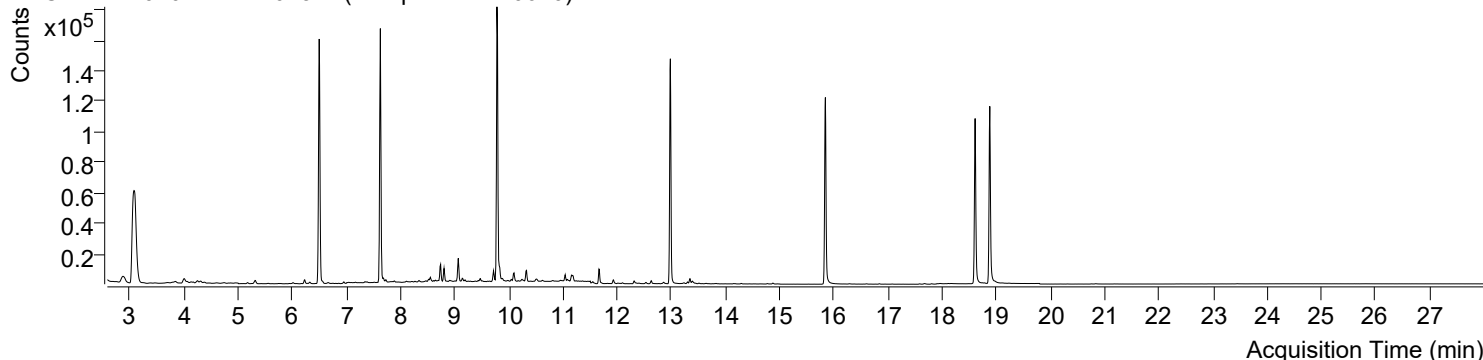


Trusted Answers

| | | | |
|---------------------------|--|-----------------------|------------------------|
| Batch Data Path File Name | D:\MassHunter\GCMS\1\data\PAHs\220707-PAHs-Sample\QuantResults\220707-PAHs-Quant.batch.bin | | |
| Analysis Time Stamp | 2022-07-09 오전 11:12:52 | Analyst Name | DESKTOP-86B7UPG\5975MS |
| Report Generation Time | 2022-07-09 오전 11:13:20 | Report Generator Name | DESKTOP-86B7UPG\5975MS |
| Calibration Last Update | 2022-07-09 오전 11:04:15 | Batch State | Processed |
| Analyze Quant Version | 10.2 | Report Quant Version | 10.2 |
| Acq. Date-Time | 2022-07-07 오후 7:32:51 | Data File | 220707-PAHs-013.D |
| Type | Sample | Name | Sample-PM-220610 |
| Dil. | 1 | Acq. Method File | PAHs 19mix-Method |

Sample Chromatogram

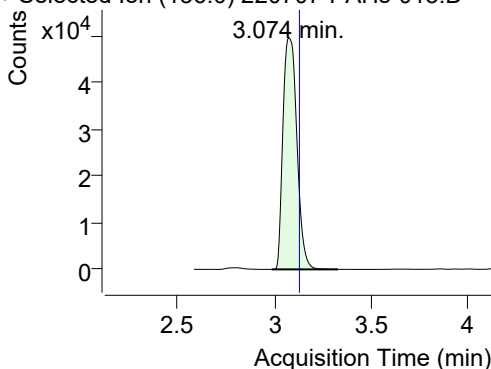
+ TIC SIM 220707-PAHs-013.D (Sample-PM-220610)



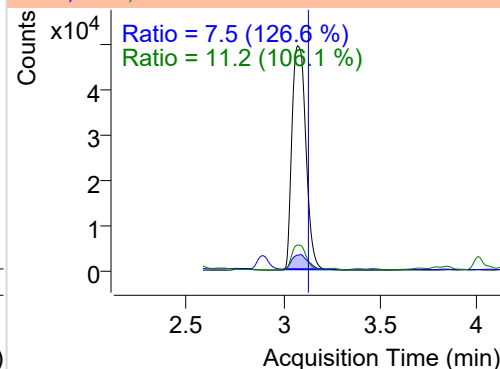
| Name | RT | Transition | Resp. | Height | Final Conc. Units | Ratio |
|-------------------------|--------|------------|--------|----------|-------------------|-------|
| IS-D8-Naphthalene | 3.074 | 136.0 | 246935 | 49423.08 | ND ng/ml | 11.2 |
| Naphthalene | 3.112 | 128.0 | 13261 | 2648.58 | ND ng/ml | 11.0 |
| Acenaphthylene | 6.173 | 152.0 | 118 | 64.66 | ND ng/ml | |
| IS-D10-Acenaphthene | 6.498 | 164.0 | 141026 | 76706.89 | ND ng/ml | 95.8 |
| Acenaphthene | 6.564 | 154.0 | 730 | 365.95 | ND ng/ml | 113.5 |
| LSS-D10-Fluorene | 7.627 | 176.0 | 122899 | 75736.90 | ND ng/ml | 92.4 |
| Fluorene | 7.680 | 166.0 | 1621 | 880.71 | ND ng/ml | 92.2 |
| IS-D10-Phenanthrene | 9.780 | 188.0 | 249838 | 140657.5 | ND ng/ml | 15.1 |
| Phenanthrene | 9.832 | 178.0 | 8119 | 4420.71 | ND ng/ml | 19.5 |
| Anthracene | 9.832 | 178.0 | 8119 | 4420.71 | ND ng/ml | 19.5 |
| Fluoranthene | 12.532 | 202.0 | 820 | 491.07 | ND ng/ml | 26.5 |
| LSS-D10-Pyrene | 12.981 | 212.0 | 179739 | 109106.7 | ND ng/ml | 18.0 |
| Pyrene | 13.014 | 202.0 | 1042 | 467.86 | ND ng/ml | 95.2 |
| Benz(a)anthracene | 15.800 | 228.0 | 125 | 81.89 | ND ng/ml | 25.0 |
| IS-D12-Chrysene | 15.844 | 240.0 | 166419 | 91855.85 | ND ng/ml | 18.9 |
| Chrysene | 15.898 | 228.0 | 218 | 97.59 | ND ng/ml | 30.7 |
| Benzo(b)fluoranthene | 18.117 | 252.0 | 159 | 75.93 | ND ng/ml | |
| Benzo(k)fluoranthene | 18.160 | 252.0 | 253 | 77.57 | ND ng/ml | 84.8 |
| SS-D12-Benzo(e)pyrene | 18.608 | 264.0 | 131102 | 73265.00 | ND ng/ml | 25.6 |
| Benzo(e)pyrene | 18.658 | 252.0 | 198 | 109.32 | ND ng/ml | |
| Benzo(a)pyrene | 18.744 | 252.0 | 93 | 56.23 | ND ng/ml | 49.7 |
| IS-D12-Perylene | 18.879 | 264.0 | 146255 | 79504.50 | ND ng/ml | 23.7 |
| Perylene | 18.872 | 252.0 | 713 | 300.05 | ND ng/ml | 27.0 |
| Indeno(1,2,3-c,d)pyrene | 20.759 | 276.0 | 175 | 70.35 | ND ng/ml | 15.6 |
| Dibenz(a,h)anthracene | 20.835 | 278.0 | 418 | 104.52 | ND ng/ml | 20.0 |
| Benzo(g,h,i)perylene | 21.179 | 276.0 | 156 | 51.35 | ND ng/ml | 17.0 |
| Coronene | 23.454 | 300.0 | 232 | 67.49 | ND ng/ml | 16.3 |

IS-D8-Naphthalene

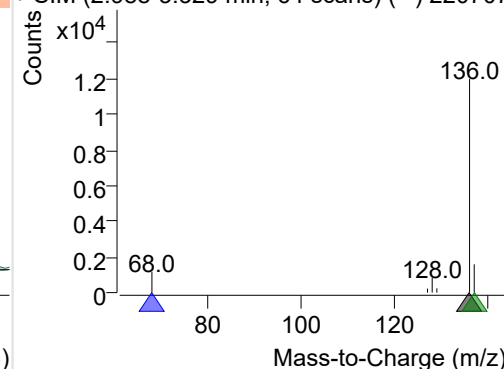
+ Selected Ion (136.0) 220707-PAHs-013.D



136.0, 68.0, 137.0

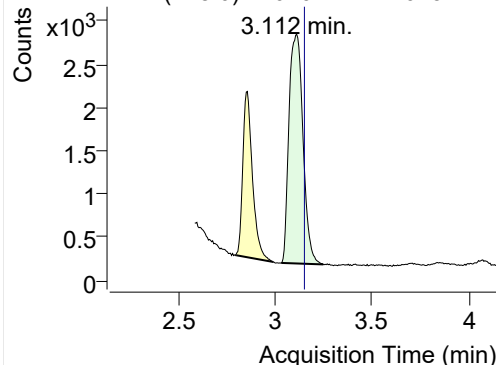


+ SIM (2.988-3.329 min, 64 scans) (**) 220707

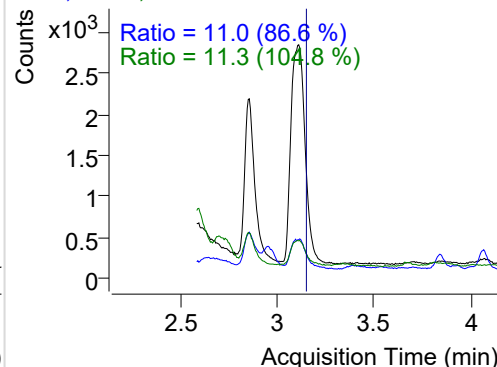


Naphthalene

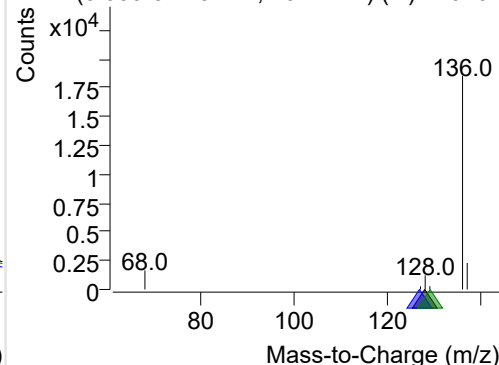
+ Selected Ion (128.0) 220707-PAHs-013.D



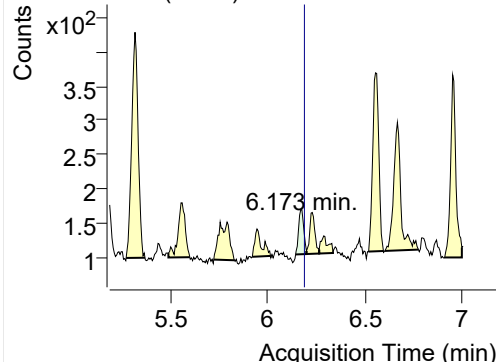
128.0, 127.0, 129.0



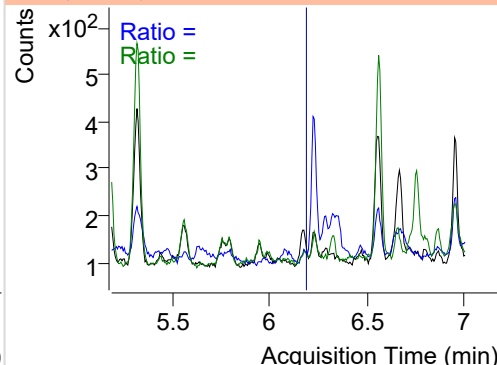
+ SIM (3.033-3.249 min, 40 scans) (**) 220707

**Acenaphthylene**

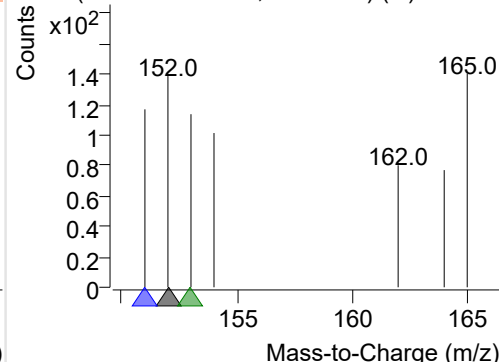
+ Selected Ion (152.0) 220707-PAHs-013.D



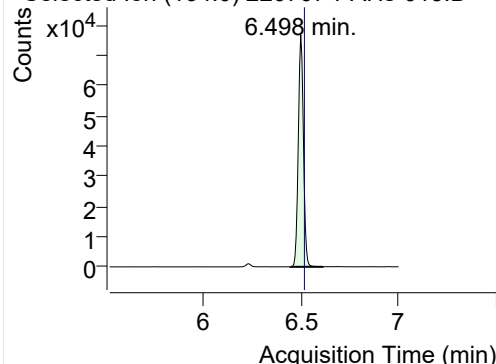
152.0, 151.0, 153.0



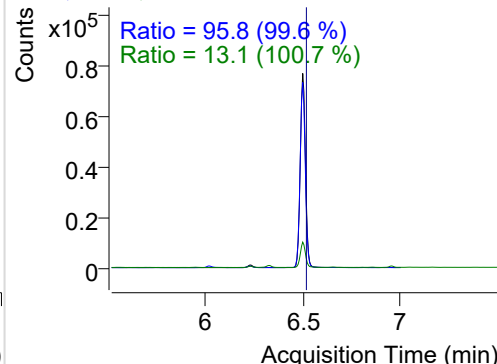
+ SIM (6.141-6.197 min, 10 scans) (**) 220707

**IS-D10-Acenaphthene**

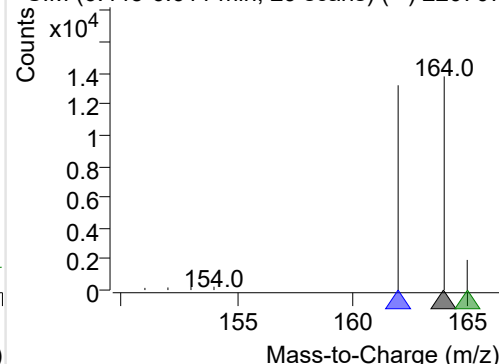
+ Selected Ion (164.0) 220707-PAHs-013.D



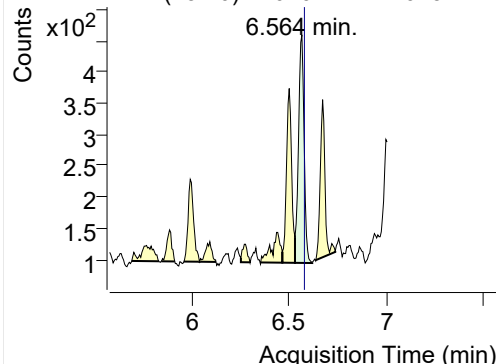
164.0, 162.0, 165.0



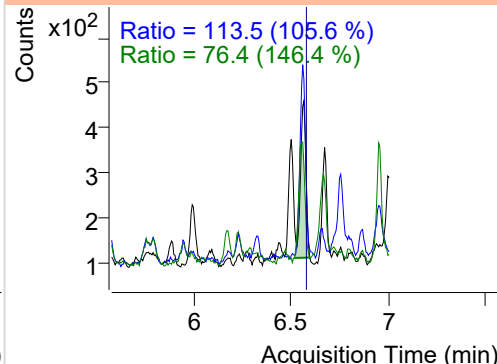
+ SIM (6.445-6.611 min, 29 scans) (**) 220707

**Acenaphthene**

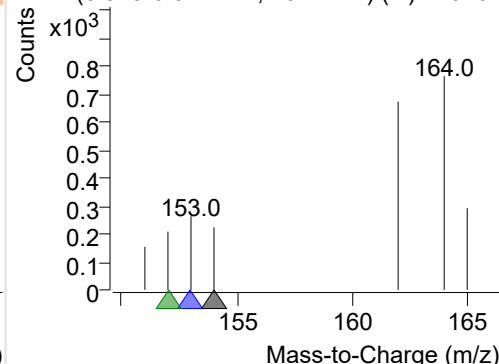
+ Selected Ion (154.0) 220707-PAHs-013.D



154.0, 153.0, 152.0

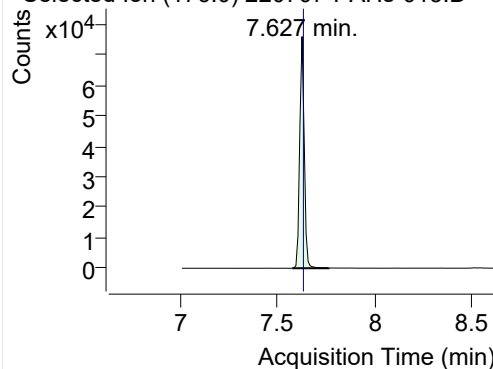


+ SIM (6.528-6.617 min, 16 scans) (**) 220707

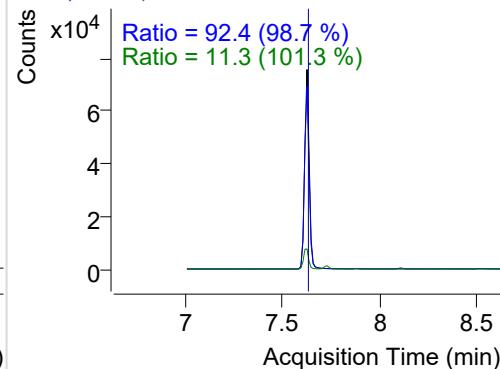


LSS-D10-Fluorene

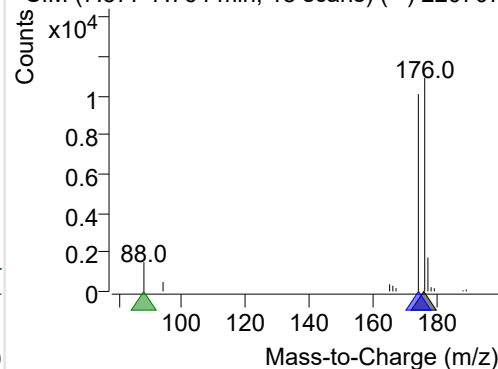
+ Selected Ion (176.0) 220707-PAHs-013.D



176.0, 174.0, 88.0

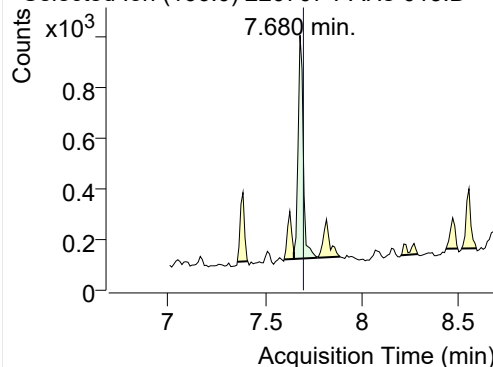


+ SIM (7.577-7.764 min, 18 scans) (**) 220707

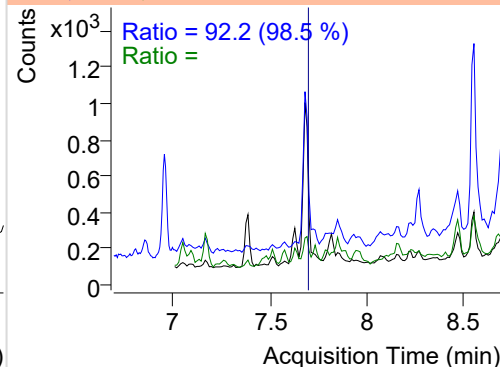


Fluorene

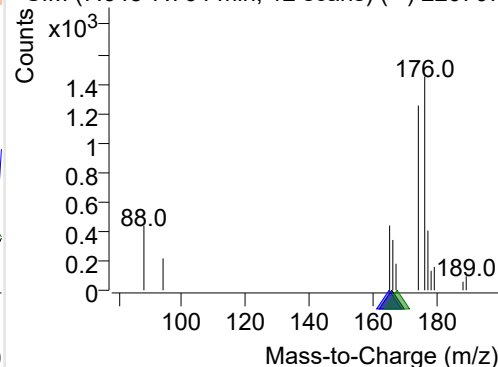
+ Selected Ion (166.0) 220707-PAHs-013.D



166.0, 165.0, 167.0

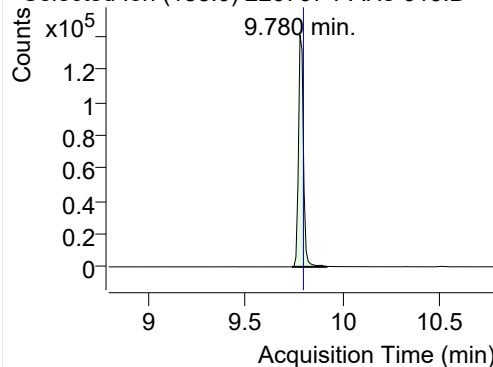


+ SIM (7.648-7.764 min, 12 scans) (**) 220707

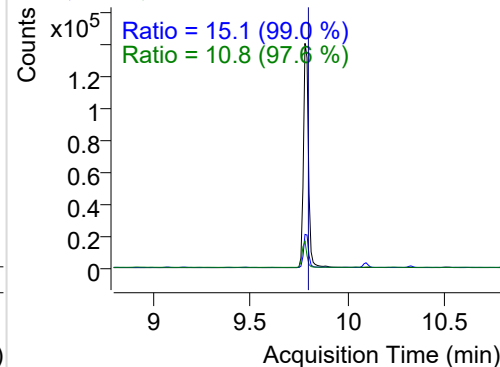


IS-D10-Phenanthrene

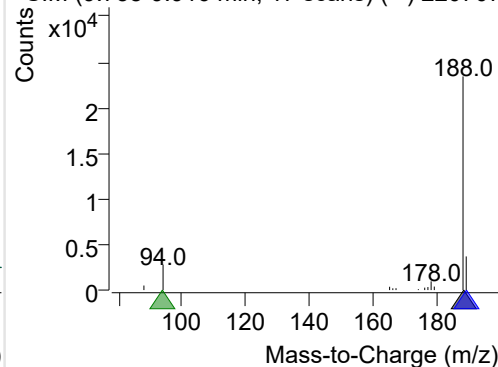
+ Selected Ion (188.0) 220707-PAHs-013.D



188.0, 189.0, 94.0

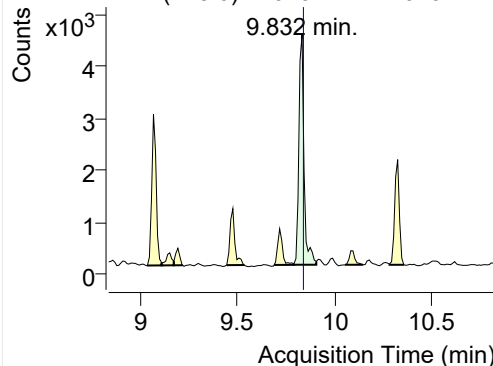


+ SIM (9.738-9.916 min, 17 scans) (**) 220707

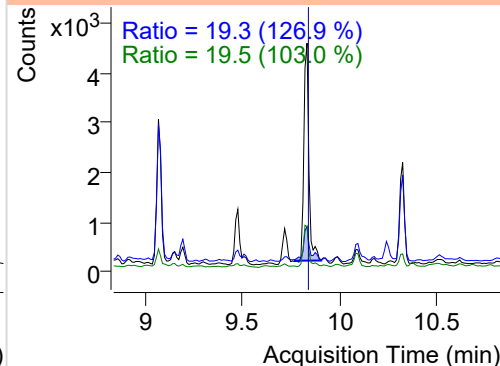


Phenanthrene

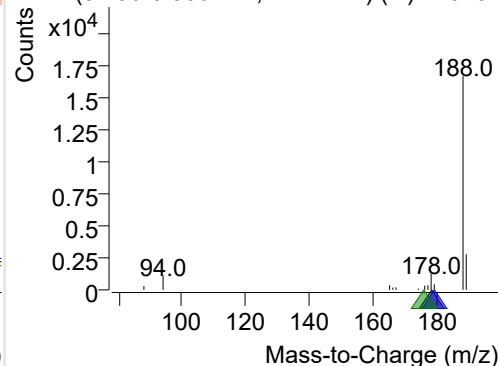
+ Selected Ion (178.0) 220707-PAHs-013.D



178.0, 179.0, 176.0

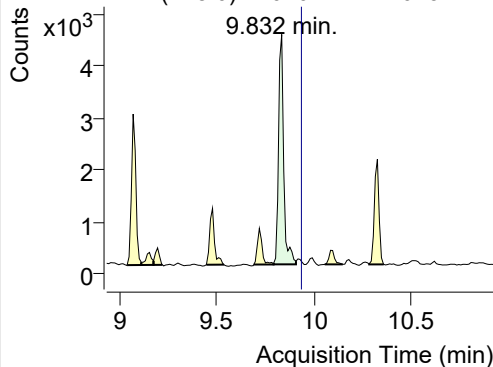


+ SIM (9.790-9.906 min, 12 scans) (**) 220707

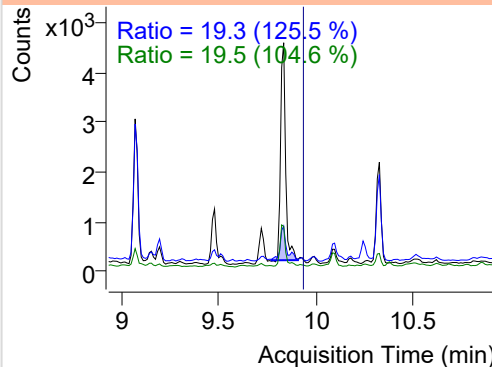


Anthracene

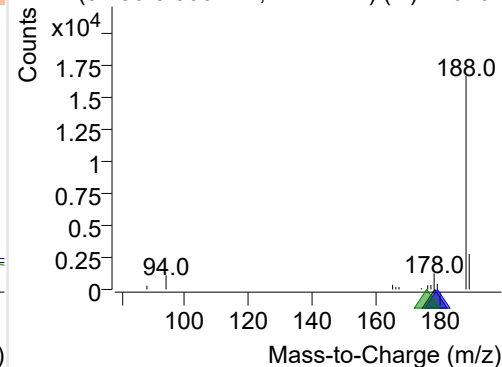
+ Selected Ion (178.0) 220707-PAHs-013.D



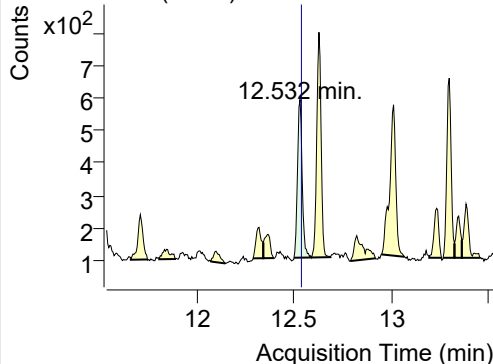
178.0, 179.0, 176.0



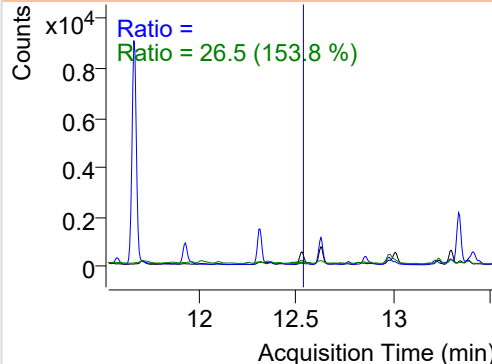
+ SIM (9.790-9.906 min, 12 scans) (**) 220707

**Fluoranthene**

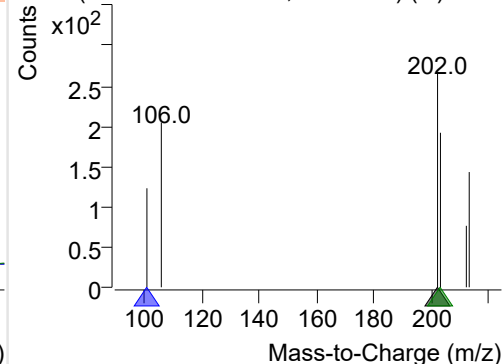
+ Selected Ion (202.0) 220707-PAHs-013.D



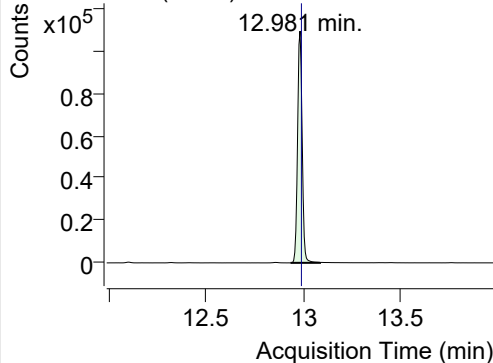
202.0, 101.0, 203.0



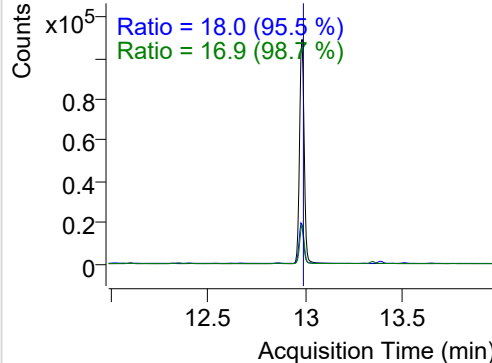
+ SIM (12.500-12.590 min, 16 scans) (**) 2207

**LSS-D10-Pyrene**

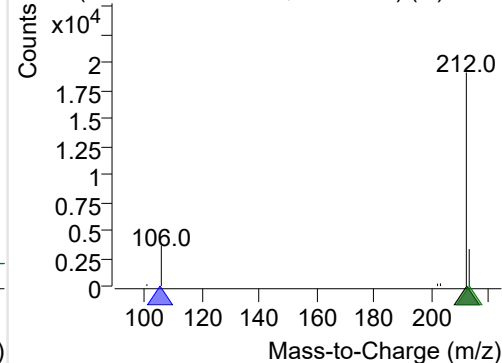
+ Selected Ion (212.0) 220707-PAHs-013.D



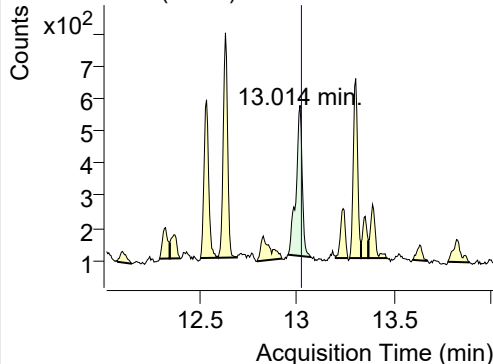
212.0, 106.0, 213.0



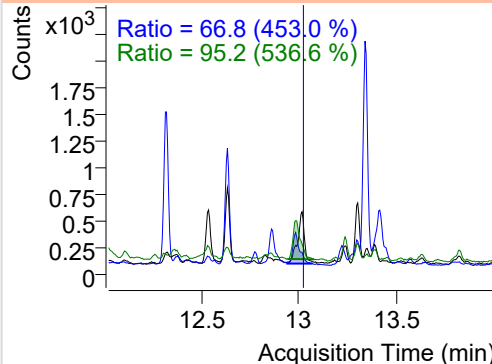
+ SIM (12.933-13.084 min, 29 scans) (**) 2207

**Pyrene**

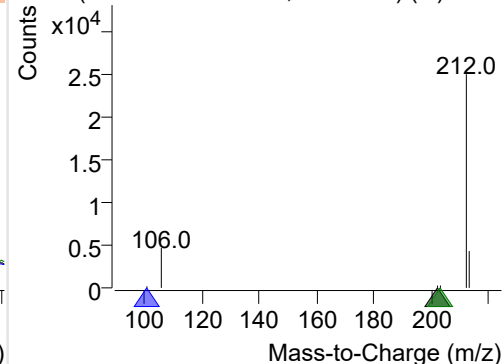
+ Selected Ion (202.0) 220707-PAHs-013.D



202.0, 101.0, 203.0



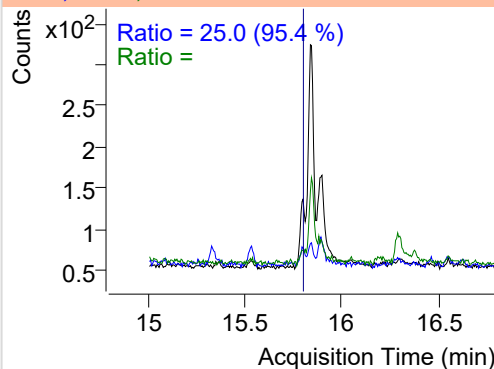
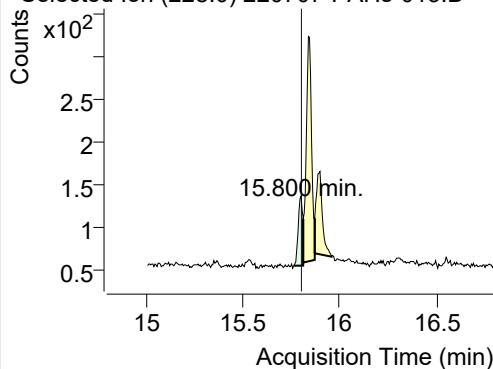
+ SIM (12.951-13.071 min, 22 scans) (**) 2207



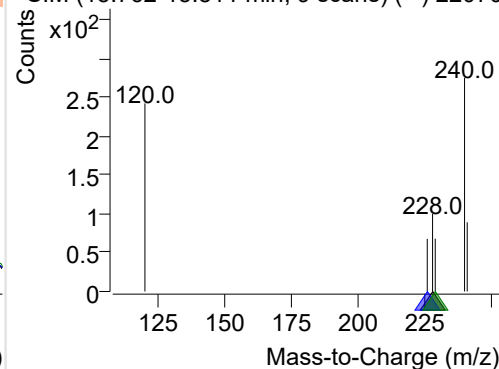
Benz(a)anthracene

+ Selected Ion (228.0) 220707-PAHs-013.D

228.0, 226.0, 229.0

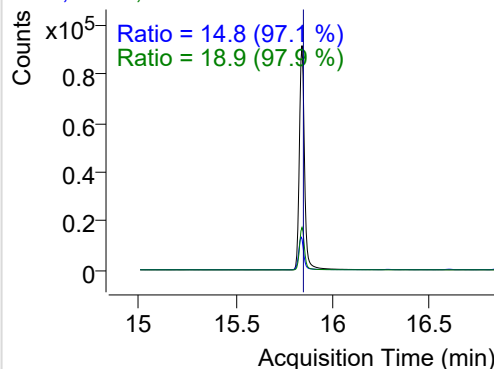
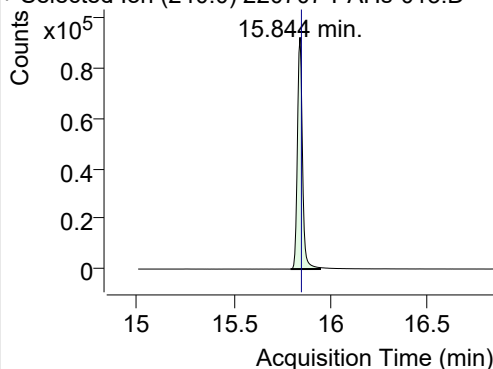


+ SIM (15.762-15.811 min, 9 scans) (**) 22070

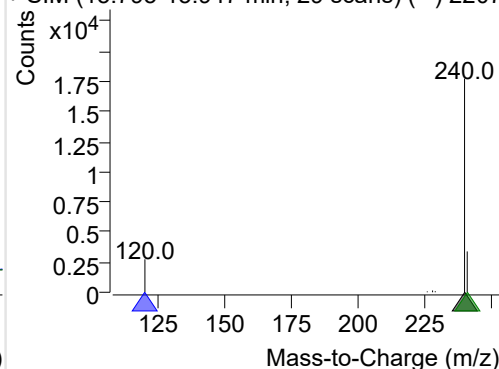
**IS-D12-Chrysene**

+ Selected Ion (240.0) 220707-PAHs-013.D

240.0, 120.0, 241.0

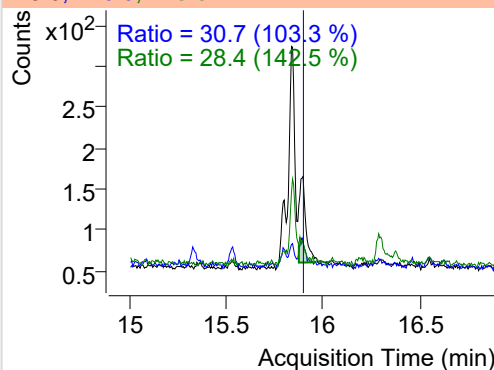
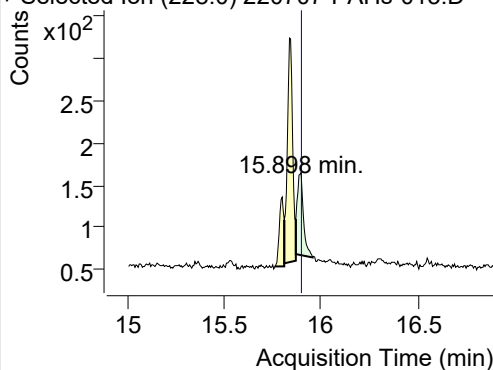


+ SIM (15.795-15.947 min, 29 scans) (**) 2207

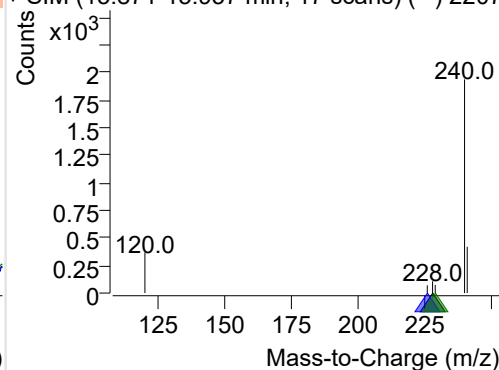
**Chrysene**

+ Selected Ion (228.0) 220707-PAHs-013.D

228.0, 226.0, 229.0

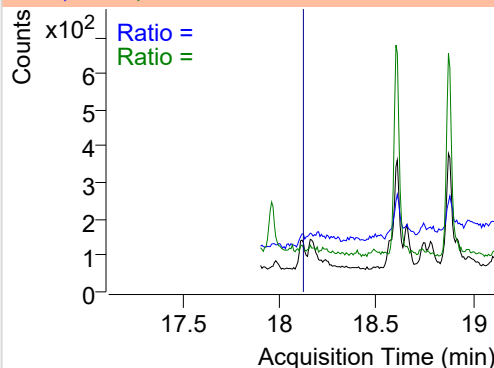
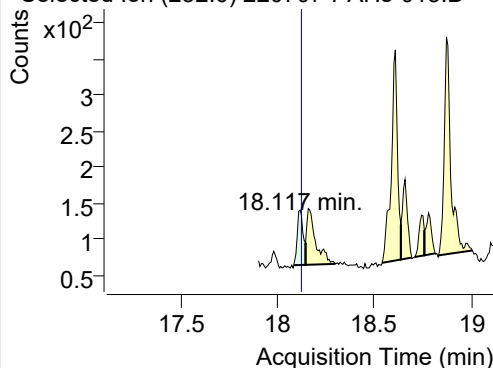


+ SIM (15.871-15.957 min, 17 scans) (**) 2207

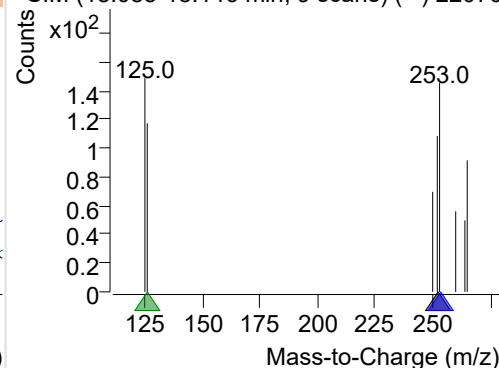
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 220707-PAHs-013.D

252.0, 253.0, 126.0



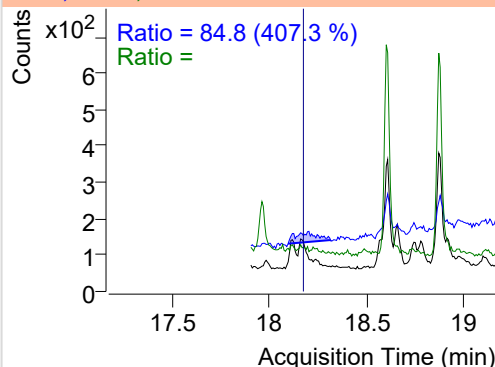
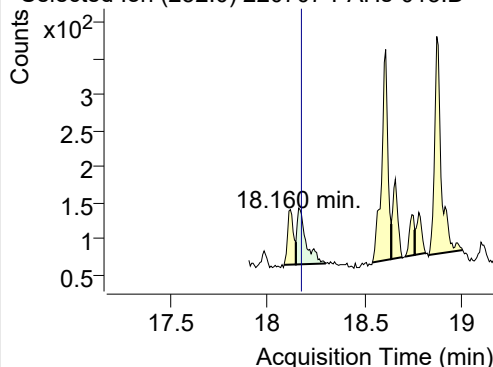
+ SIM (18.085-18.146 min, 9 scans) (**) 22070



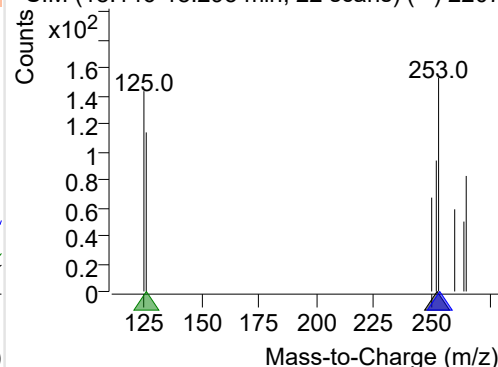
Benzo(k)fluoranthene

+ Selected Ion (252.0) 220707-PAHs-013.D

252.0, 253.0, 126.0

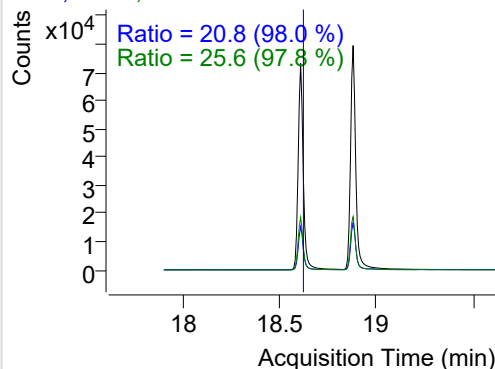
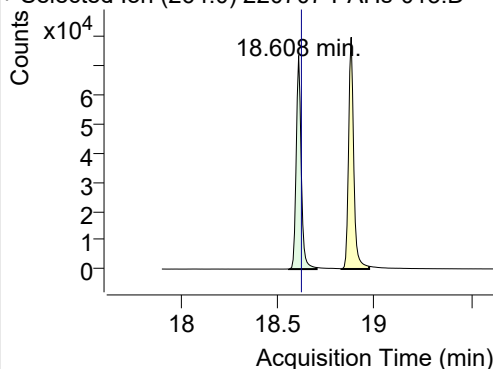


+ SIM (18.146-18.295 min, 22 scans) (**) 2207

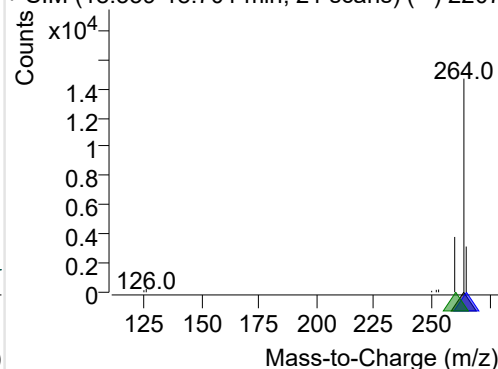
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 220707-PAHs-013.D

264.0, 265.0, 260.0

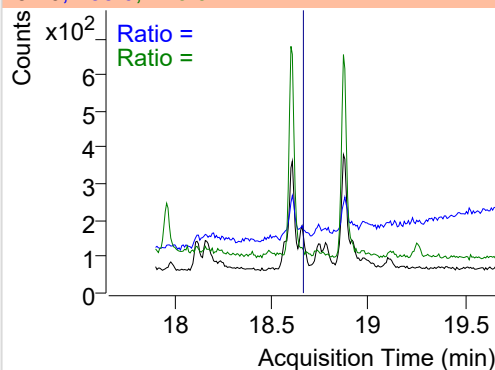
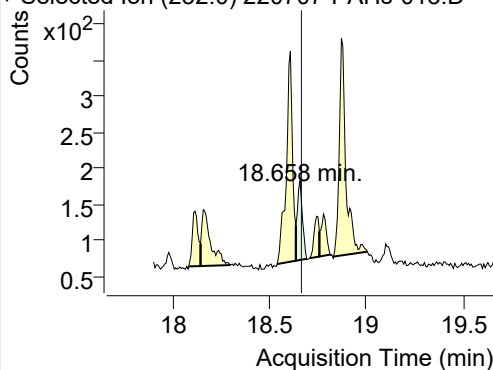


+ SIM (18.559-18.701 min, 21 scans) (**) 2207

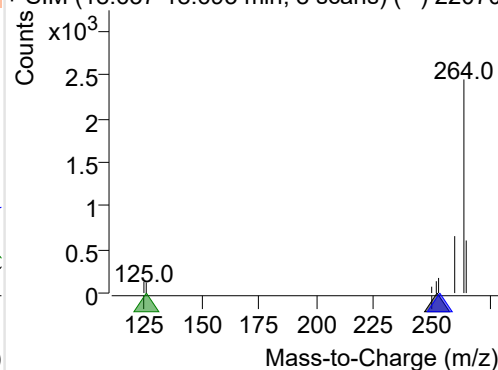
**Benzo(e)pyrene**

+ Selected Ion (252.0) 220707-PAHs-013.D

252.0, 253.0, 126.0

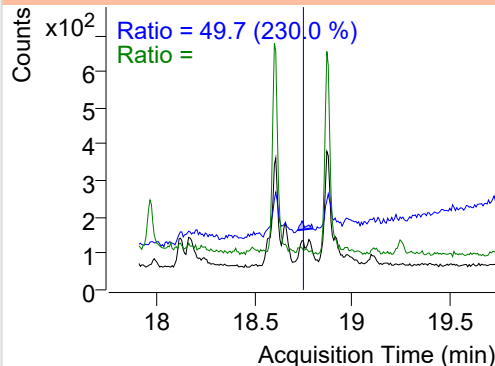
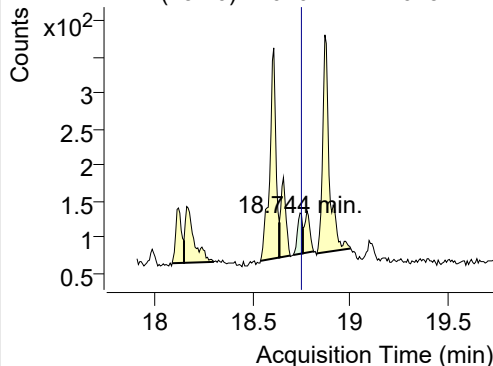


+ SIM (18.637-18.693 min, 8 scans) (**) 22070

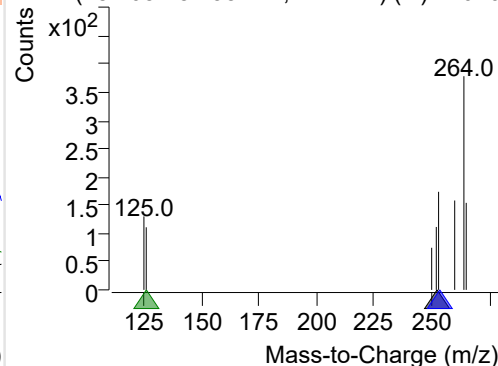
**Benzo(a)pyrene**

+ Selected Ion (252.0) 220707-PAHs-013.D

252.0, 253.0, 126.0

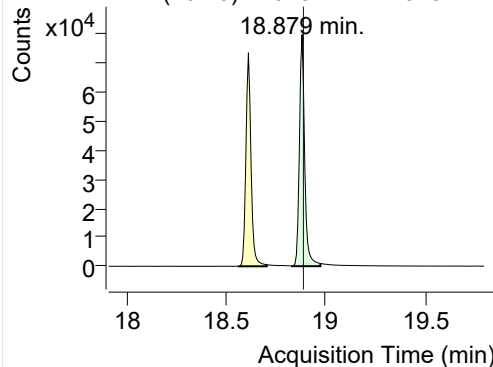


+ SIM (18.708-18.758 min, 7 scans) (**) 22070

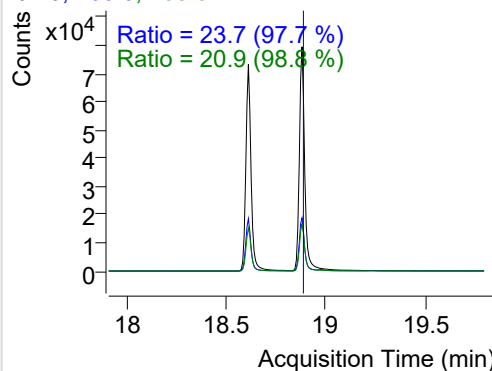


IS-D12-Perylene

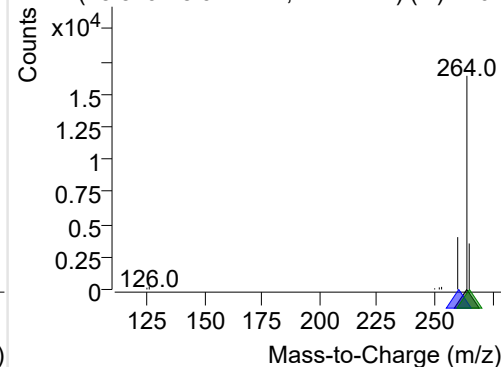
+ Selected Ion (264.0) 220707-PAHs-013.D



264.0, 260.0, 265.0

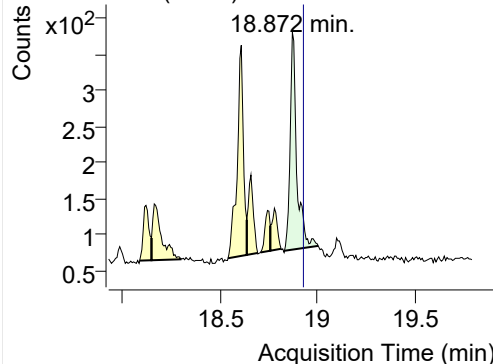


+ SIM (18.829-18.971 min, 21 scans) (**) 2207

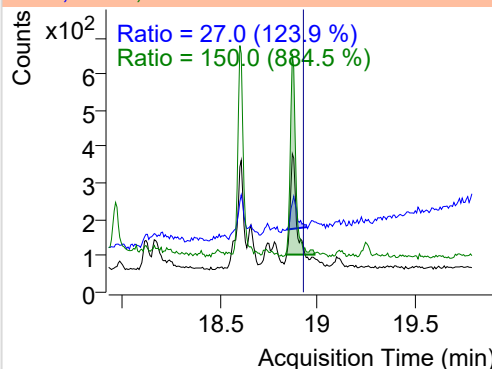


Perylene

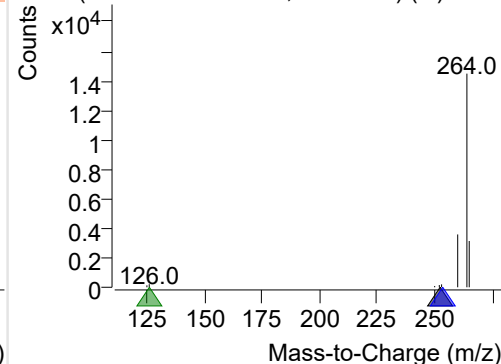
+ Selected Ion (252.0) 220707-PAHs-013.D



252.0, 253.0, 126.0

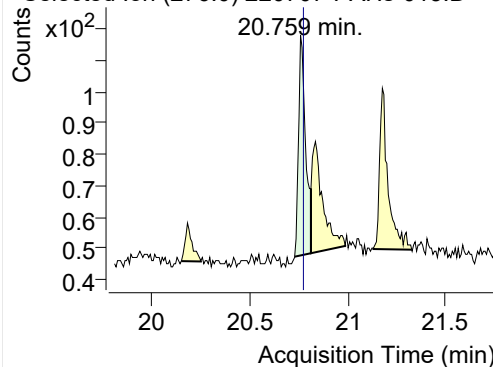


+ SIM (18.831-19.005 min, 24 scans) (**) 2207

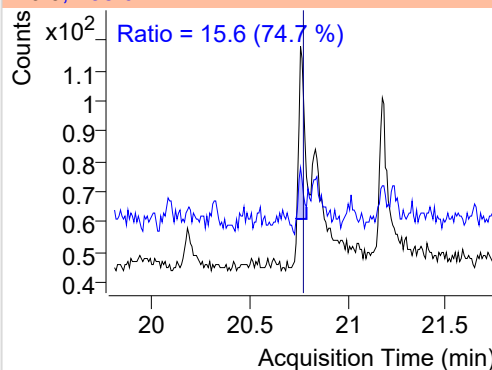


Indeno(1,2,3-c,d)pyrene

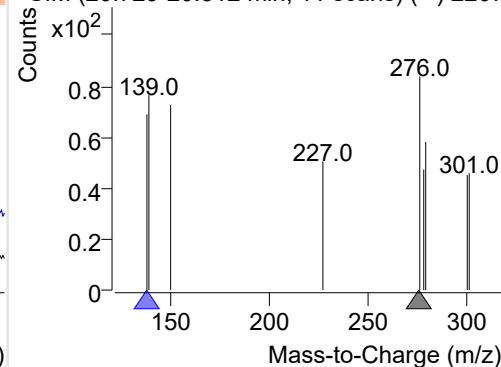
+ Selected Ion (276.0) 220707-PAHs-013.D



276.0, 138.0

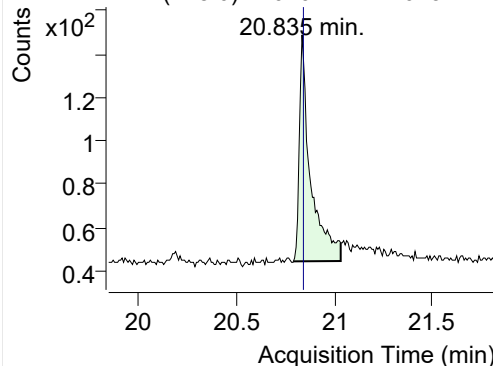


+ SIM (20.729-20.812 min, 11 scans) (**) 2207

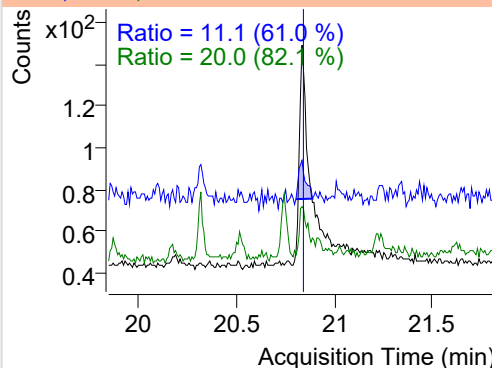


Dibenz(a,h)anthracene

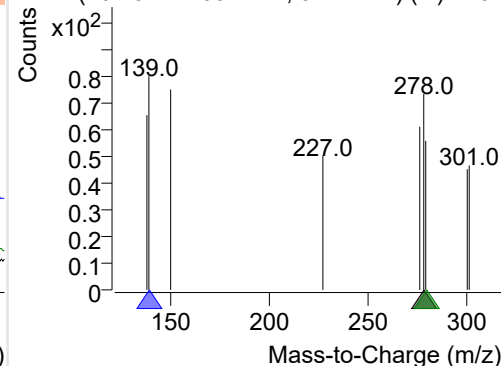
+ Selected Ion (278.0) 220707-PAHs-013.D



278.0, 139.0, 279.0



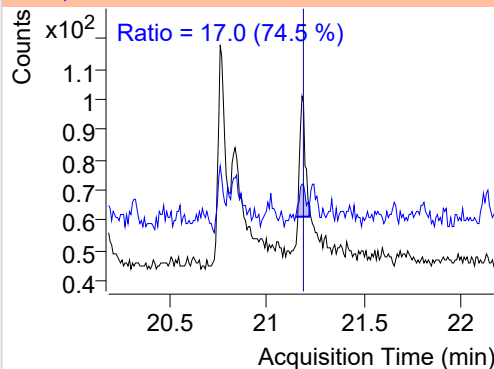
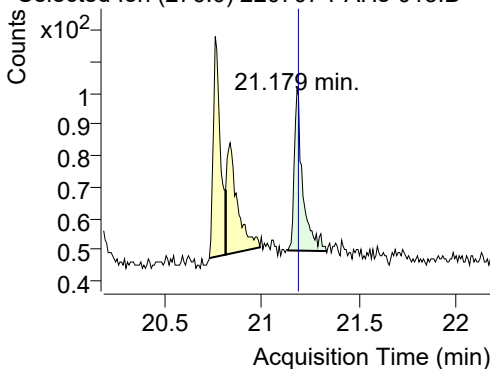
+ SIM (20.791-21.034 min, 32 scans) (**) 2207



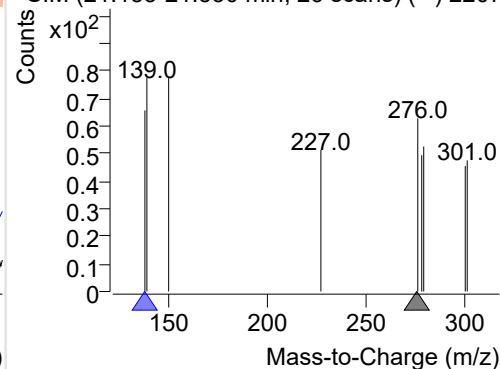
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 220707-PAHs-013.D

276.0, 138.0

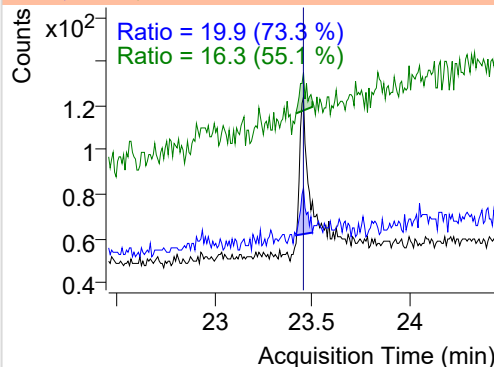
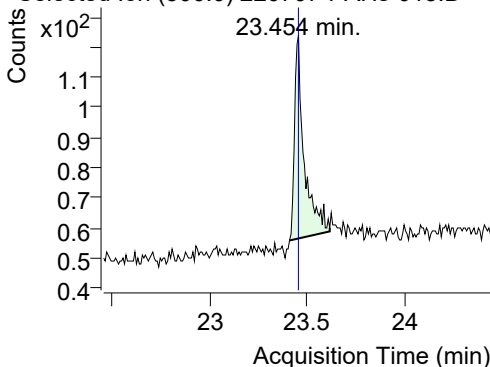


+ SIM (21.133-21.330 min, 26 scans) (**) 2207

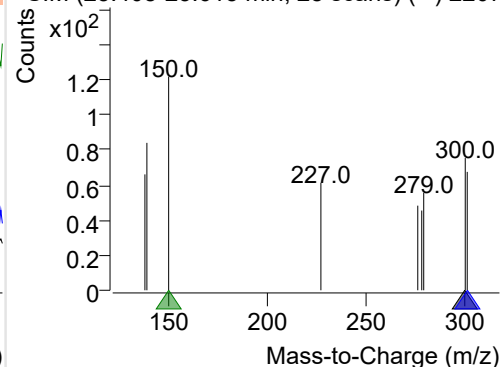
**Coronene**

+ Selected Ion (300.0) 220707-PAHs-013.D

300.0, 301.0, 150.0



+ SIM (23.408-23.615 min, 28 scans) (**) 2207



Quantitative Analysis Sample Based Report

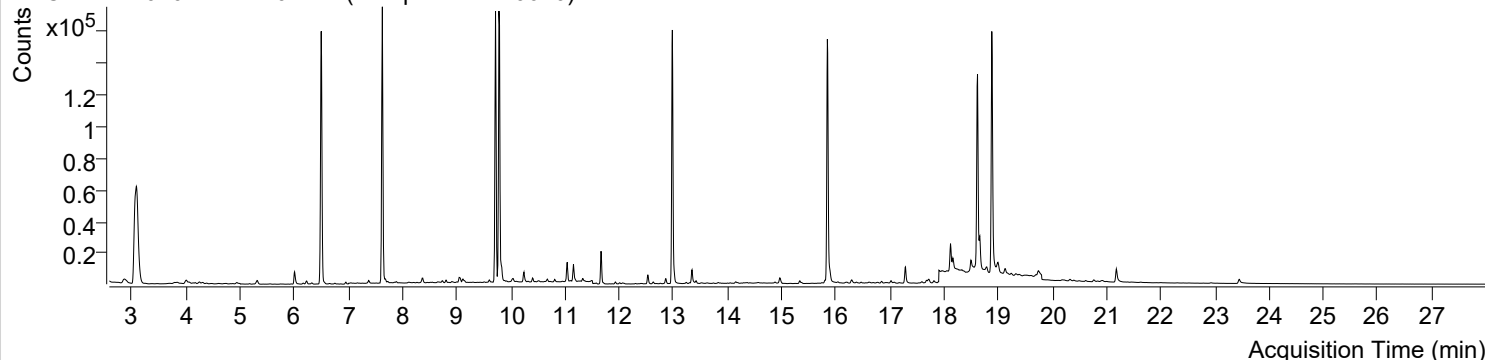


Trusted Answers

| | | | |
|---------------------------|--|-----------------------|------------------------|
| Batch Data Path File Name | D:\MassHunter\GCMS\1\data\PAHs\220707-PAHs-Sample\QuantResults\220707-PAHs-Quant.batch.bin | | |
| Analysis Time Stamp | 2022-07-09 오전 11:12:52 | Analyst Name | DESKTOP-86B7UPG\5975MS |
| Report Generation Time | 2022-07-09 오전 11:13:20 | Report Generator Name | DESKTOP-86B7UPG\5975MS |
| Calibration Last Update | 2022-07-09 오전 11:04:15 | Batch State | Processed |
| Analyze Quant Version | 10.2 | Report Quant Version | 10.2 |
| Acq. Date-Time | 2022-07-07 오후 8:04:02 | Data File | 220707-PAHs-014.D |
| Type | Sample | Name | Sample-PM-220616 |
| Dil. | 1 | Acq. Method File | PAHs 19mix-Method |

Sample Chromatogram

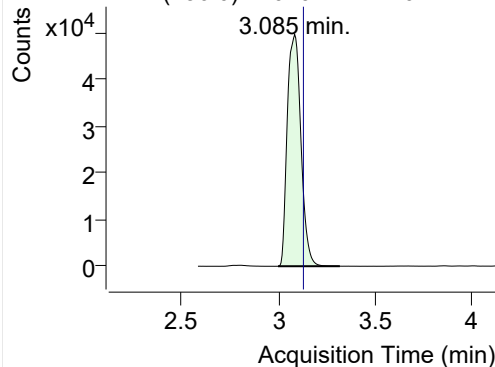
+ TIC SIM 220707-PAHs-014.D (Sample-PM-220616)



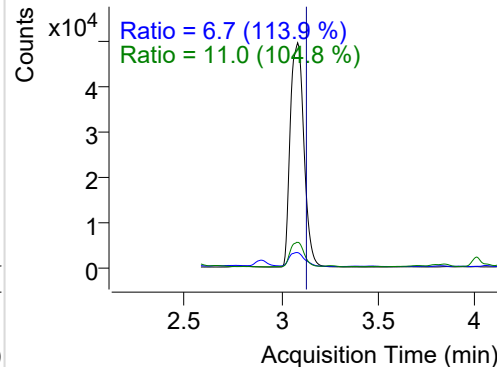
| Name | RT | Transition | Resp. | Height | Final Conc. Units | Ratio |
|-------------------------|--------|------------|--------|----------|-------------------|-------|
| IS-D8-Naphthalene | 3.085 | 136.0 | 241653 | 49494.84 | ND ng/ml | 11.0 |
| Naphthalene | 3.112 | 128.0 | 15180 | 3114.36 | ND ng/ml | 11.1 |
| Acenaphthylene | 6.167 | 152.0 | 797 | 411.05 | ND ng/ml | 25.9 |
| IS-D10-Acenaphthene | 6.498 | 164.0 | 138532 | 76036.34 | ND ng/ml | 95.8 |
| Acenaphthene | 6.564 | 154.0 | 390 | 205.09 | ND ng/ml | 125.1 |
| LSS-D10-Fluorene | 7.627 | 176.0 | 126741 | 79301.20 | ND ng/ml | 92.5 |
| Fluorene | 7.680 | 166.0 | 1318 | 736.03 | ND ng/ml | 100.2 |
| IS-D10-Phenanthrene | 9.780 | 188.0 | 244299 | 132915.7 | ND ng/ml | 14.9 |
| Phenanthrene | 9.832 | 178.0 | 8340 | 4678.81 | ND ng/ml | 18.5 |
| Anthracene | 9.832 | 178.0 | 8340 | 4678.81 | ND ng/ml | 18.5 |
| Fluoranthene | 12.526 | 202.0 | 7229 | 4203.79 | ND ng/ml | 18.6 |
| LSS-D10-Pyrene | 12.981 | 212.0 | 191545 | 117990.5 | ND ng/ml | 18.1 |
| Pyrene | 13.014 | 202.0 | 7350 | 4201.36 | ND ng/ml | 18.0 |
| Benz(a)anthracene | 15.800 | 228.0 | 2197 | 1252.55 | ND ng/ml | 18.3 |
| IS-D12-Chrysene | 15.843 | 240.0 | 209339 | 115709.5 | ND ng/ml | 18.3 |
| Chrysene | 15.887 | 228.0 | 6960 | 3127.82 | ND ng/ml | 27.5 |
| Benzo(b)fluoranthene | 18.117 | 252.0 | 19172 | 10163.74 | ND ng/ml | 21.1 |
| Benzo(k)fluoranthene | 18.160 | 252.0 | 10504 | 4978.15 | ND ng/ml | 18.9 |
| SS-D12-Benzo(e)pyrene | 18.616 | 264.0 | 157967 | 83183.25 | ND ng/ml | 25.2 |
| Benzo(e)pyrene | 18.658 | 252.0 | 20537 | 10633.30 | ND ng/ml | 22.0 |
| Benzo(a)pyrene | 18.744 | 252.0 | 228 | 121.80 | ND ng/ml | |
| IS-D12-Perylene | 18.879 | 264.0 | 196145 | 103610.3 | ND ng/ml | 23.5 |
| Perylene | 18.929 | 252.0 | 319 | 152.07 | ND ng/ml | 85.3 |
| Indeno(1,2,3-c,d)pyrene | 20.766 | 276.0 | 2075 | 911.14 | ND ng/ml | 19.2 |
| Dibenz(a,h)anthracene | 20.835 | 278.0 | 694 | 187.20 | ND ng/ml | 15.0 |
| Benzo(g,h,i)perylene | 21.179 | 276.0 | 16315 | 6574.19 | ND ng/ml | 21.1 |
| Coronene | 23.446 | 300.0 | 5705 | 1672.26 | ND ng/ml | 27.7 |

IS-D8-Naphthalene

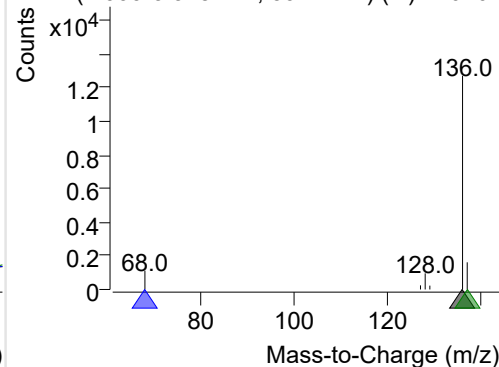
+ Selected Ion (136.0) 220707-PAHs-014.D



136.0, 68.0, 137.0

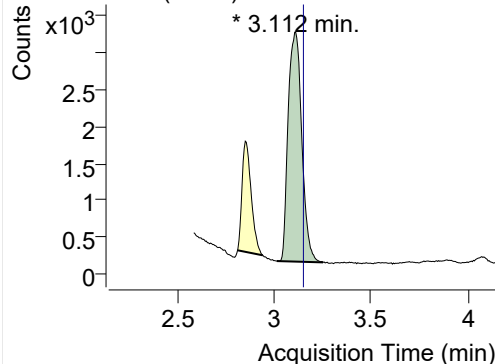


+ SIM (2.999-3.318 min, 59 scans) (**) 220707

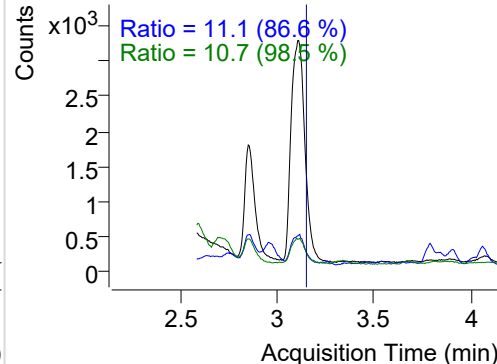


Naphthalene

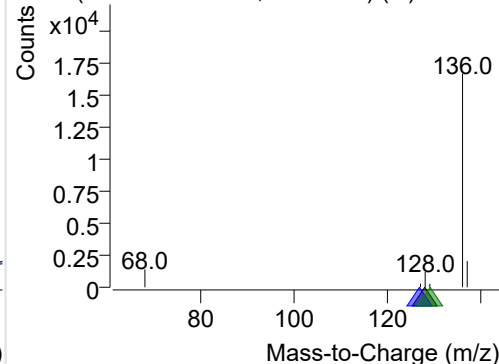
+ Selected Ion (128.0) 220707-PAHs-014.D



128.0, 127.0, 129.0

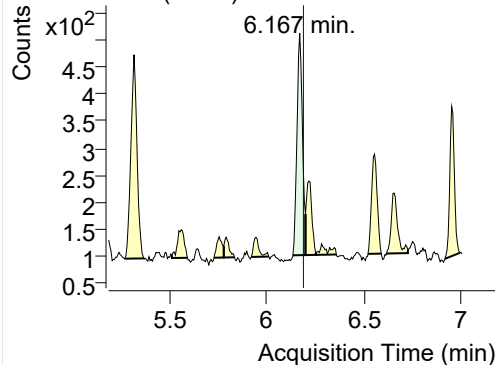


+ SIM (3.015-3.253 min, 45 scans) (**) 220707

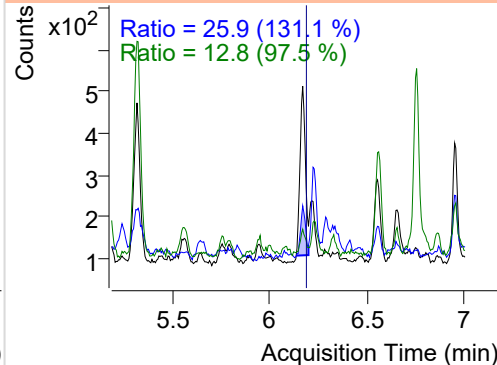


Acenaphthylene

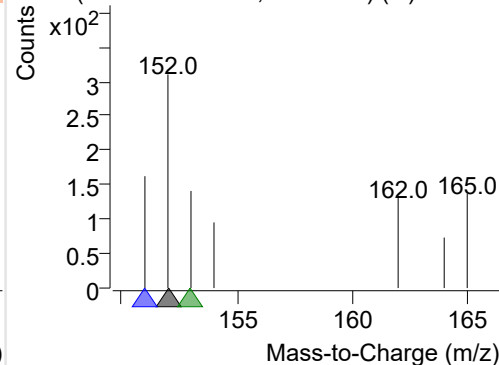
+ Selected Ion (152.0) 220707-PAHs-014.D



152.0, 151.0, 153.0

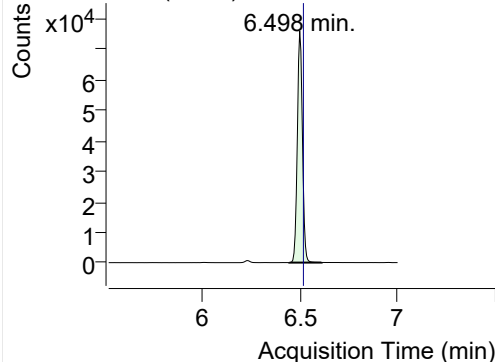


+ SIM (6.132-6.197 min, 11 scans) (**) 220707

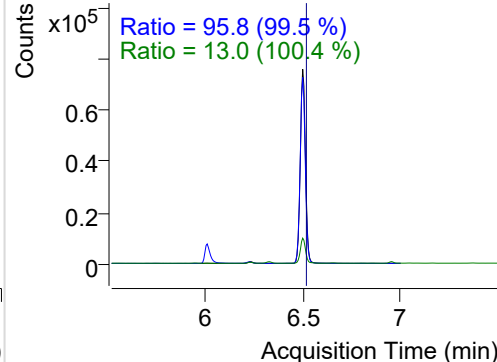


IS-D10-Acenaphthene

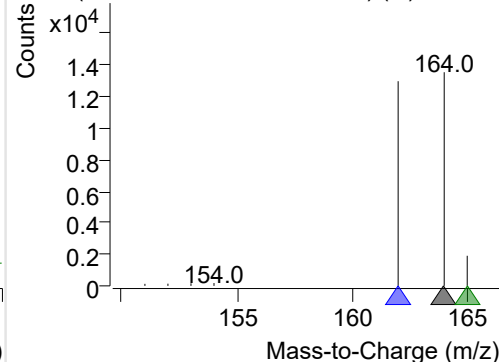
+ Selected Ion (164.0) 220707-PAHs-014.D



164.0, 162.0, 165.0

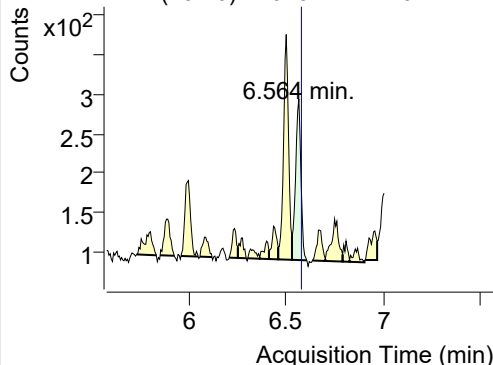


+ SIM (6.445-6.611 min, 29 scans) (**) 220707

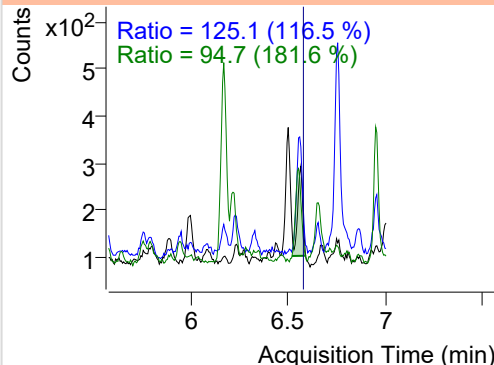


Acenaphthene

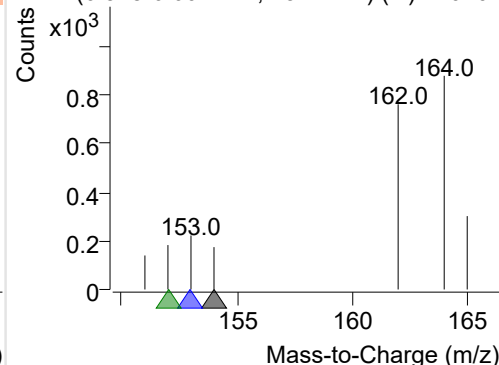
+ Selected Ion (154.0) 220707-PAHs-014.D



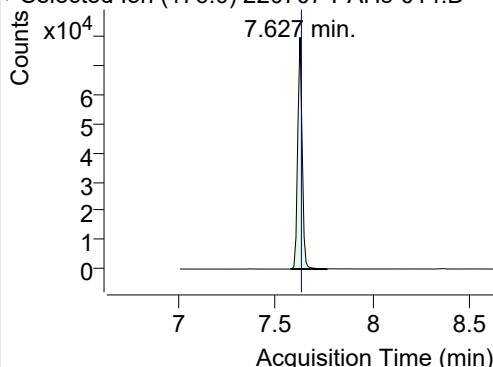
154.0, 153.0, 152.0



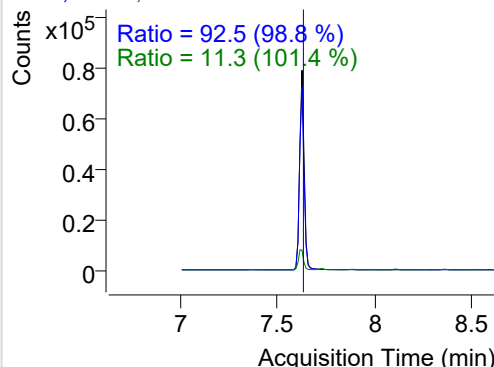
+ SIM (6.528-6.604 min, 13 scans) (**) 220707

**LSS-D10-Fluorene**

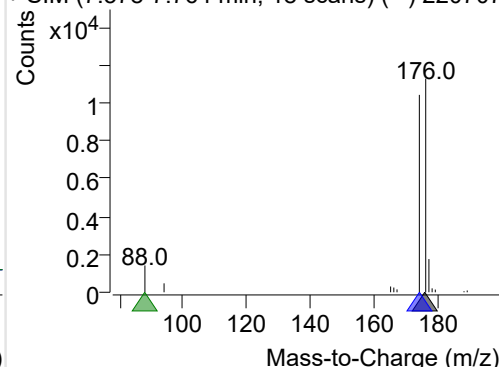
+ Selected Ion (176.0) 220707-PAHs-014.D



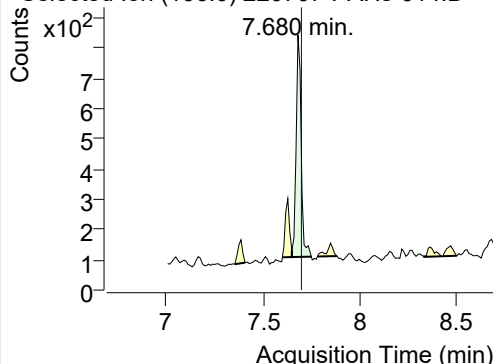
176.0, 174.0, 88.0



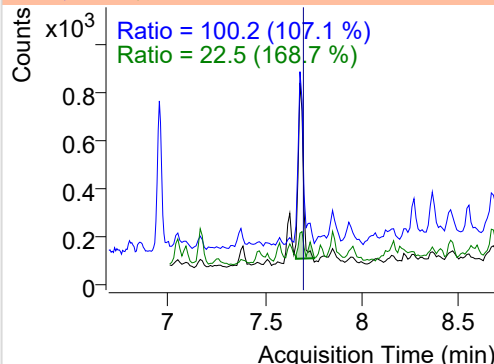
+ SIM (7.578-7.764 min, 18 scans) (**) 220707

**Fluorene**

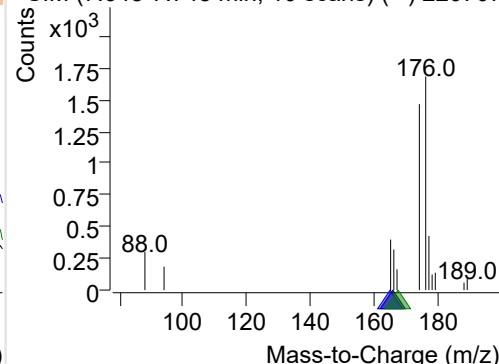
+ Selected Ion (166.0) 220707-PAHs-014.D



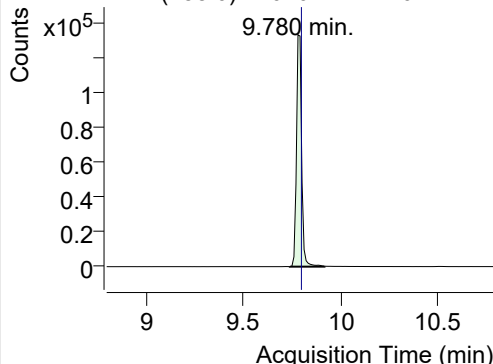
166.0, 165.0, 167.0



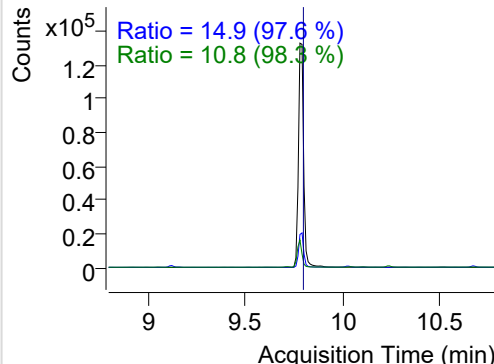
+ SIM (7.648-7.748 min, 10 scans) (**) 220707

**IS-D10-Phenanthrene**

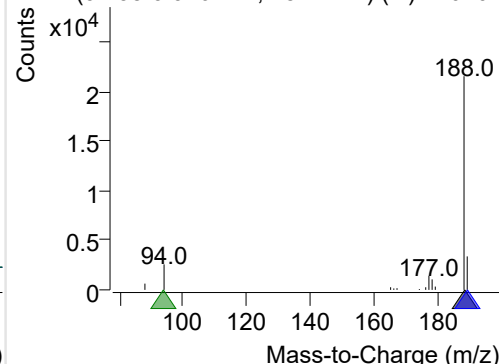
+ Selected Ion (188.0) 220707-PAHs-014.D



188.0, 189.0, 94.0

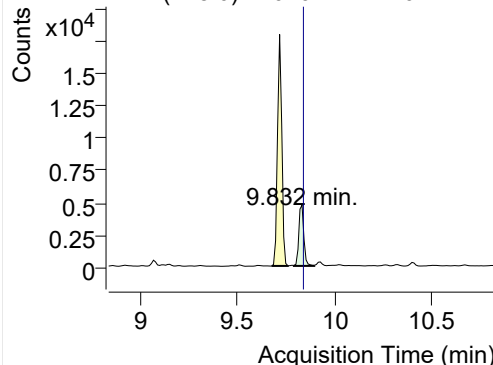


+ SIM (9.738-9.916 min, 18 scans) (**) 220707

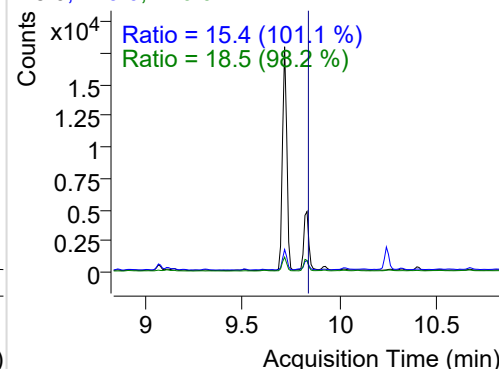


Phenanthrene

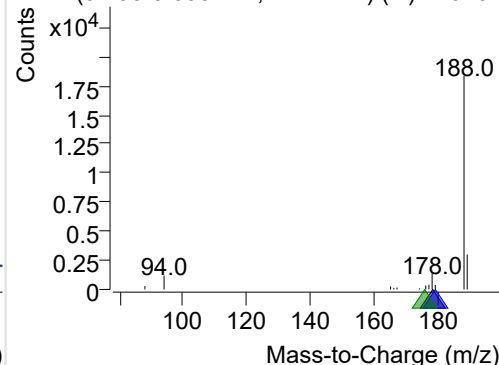
+ Selected Ion (178.0) 220707-PAHs-014.D



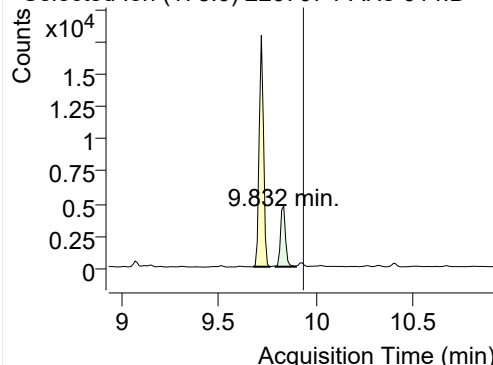
178.0, 179.0, 176.0



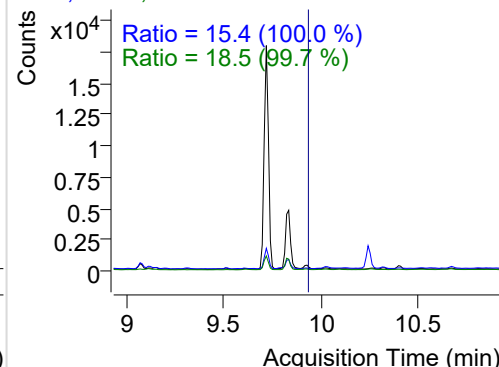
+ SIM (9.790-9.895 min, 11 scans) (**) 220707

**Anthracene**

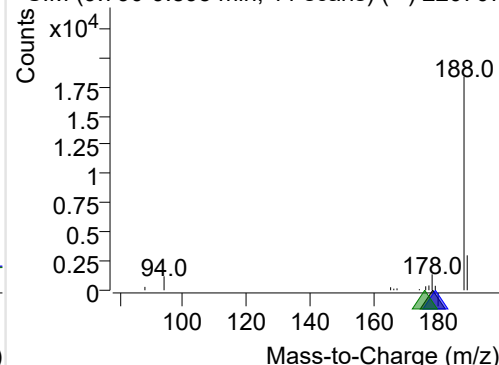
+ Selected Ion (178.0) 220707-PAHs-014.D



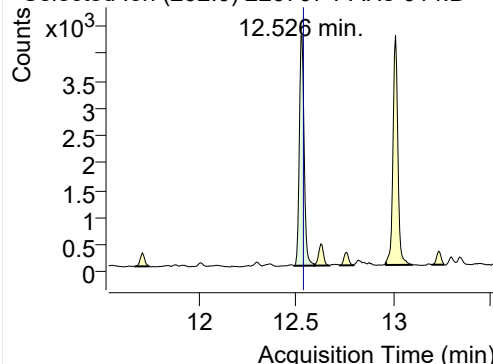
178.0, 179.0, 176.0



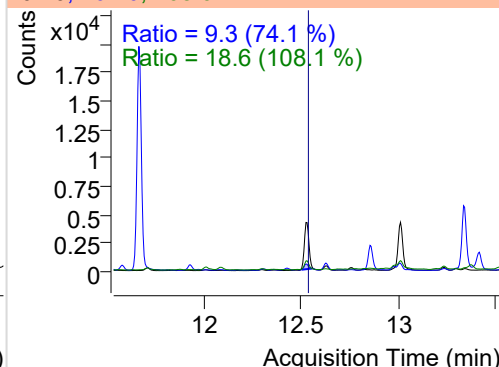
+ SIM (9.790-9.895 min, 11 scans) (**) 220707

**Fluoranthene**

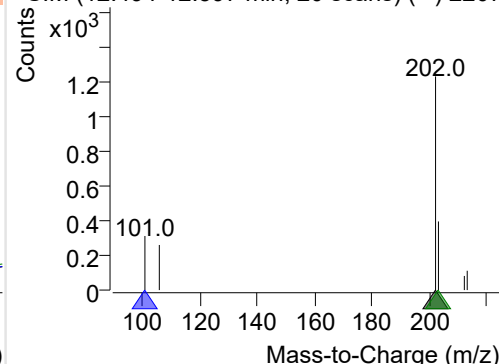
+ Selected Ion (202.0) 220707-PAHs-014.D



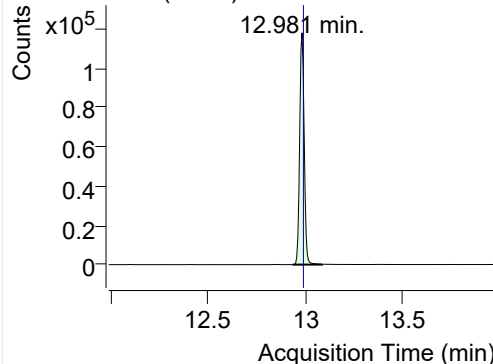
202.0, 101.0, 203.0



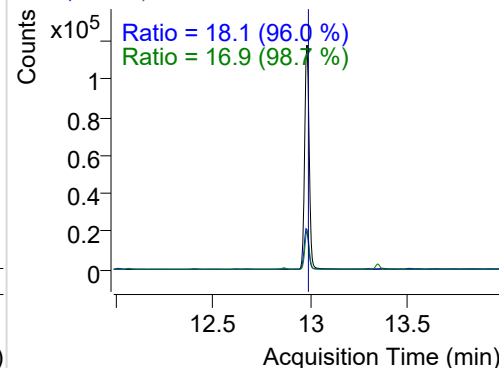
+ SIM (12.494-12.597 min, 20 scans) (**) 2207

**LSS-D10-Pyrene**

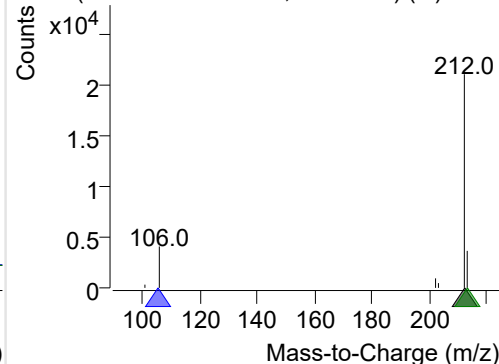
+ Selected Ion (212.0) 220707-PAHs-014.D



212.0, 106.0, 213.0

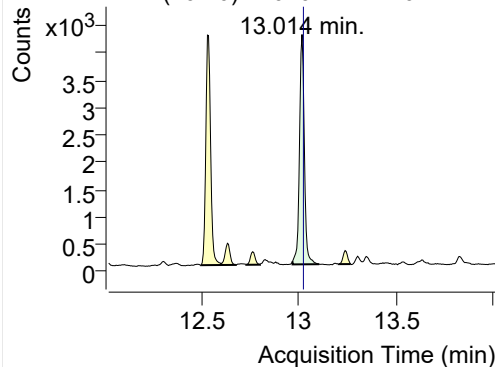


+ SIM (12.933-13.084 min, 28 scans) (**) 2207

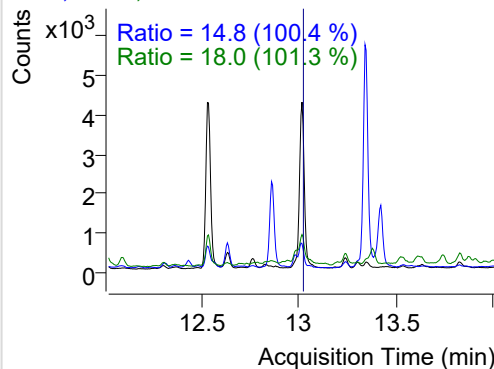


Pyrene

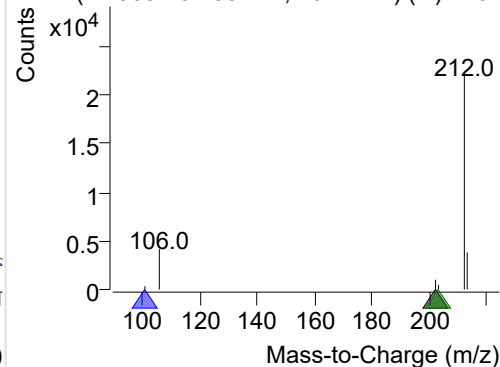
+ Selected Ion (202.0) 220707-PAHs-014.D



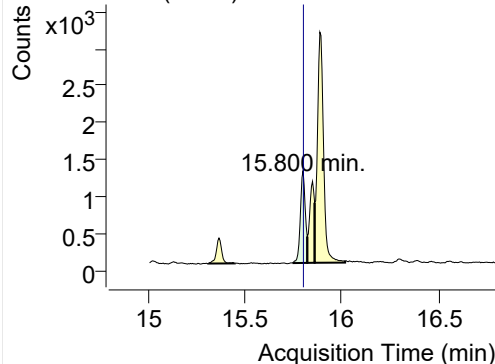
202.0, 101.0, 203.0



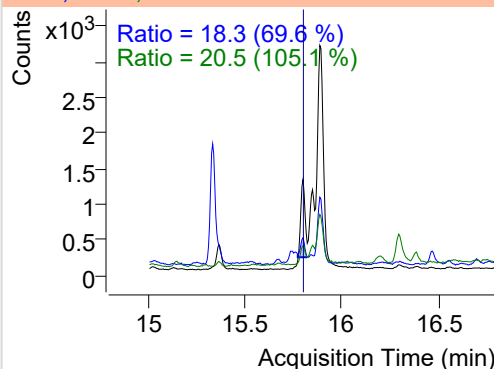
+ SIM (12.965-13.103 min, 26 scans) (**) 2207

**Benz(a)anthracene**

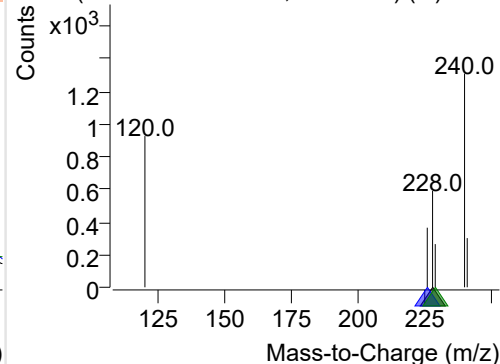
+ Selected Ion (228.0) 220707-PAHs-014.D



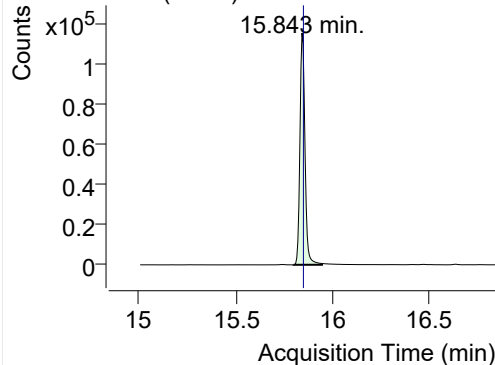
228.0, 226.0, 229.0



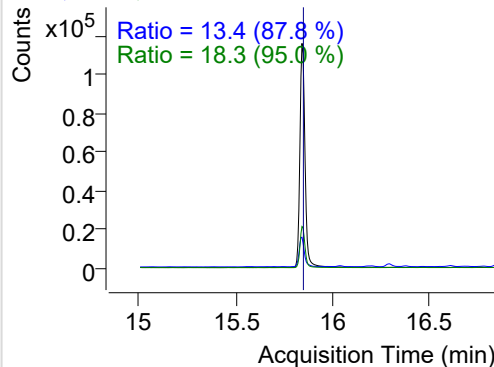
+ SIM (15.751-15.822 min, 14 scans) (**) 2207

**IS-D12-Chrysene**

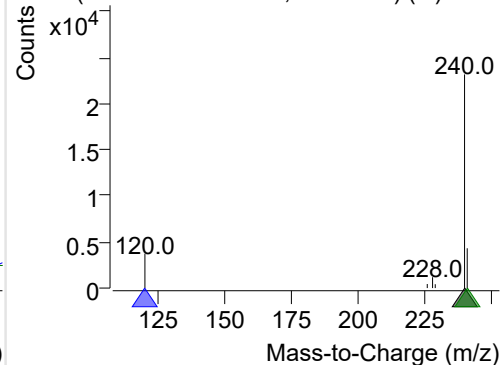
+ Selected Ion (240.0) 220707-PAHs-014.D



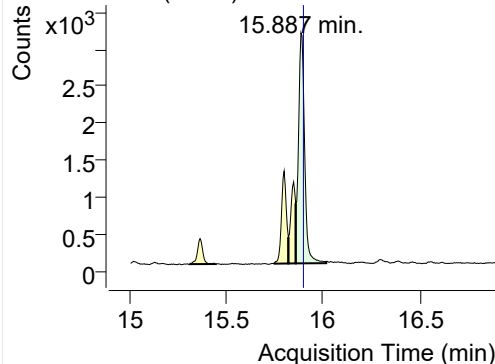
240.0, 120.0, 241.0



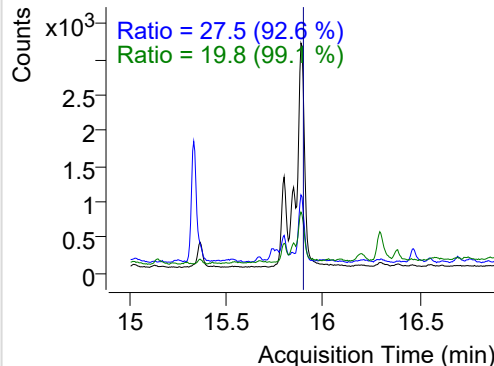
+ SIM (15.800-15.946 min, 28 scans) (**) 2207

**Chrysene**

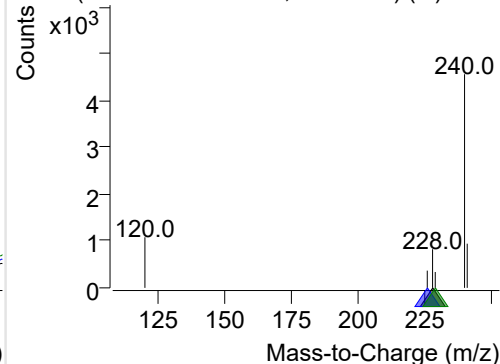
+ Selected Ion (228.0) 220707-PAHs-014.D



228.0, 226.0, 229.0

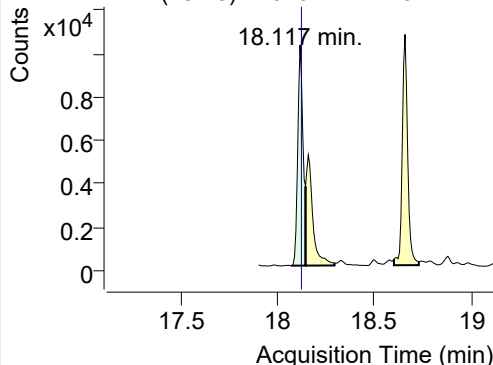


+ SIM (15.860-16.017 min, 30 scans) (**) 2207

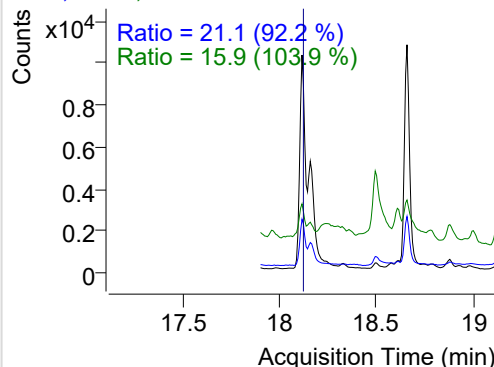


Benzo(b)fluoranthene

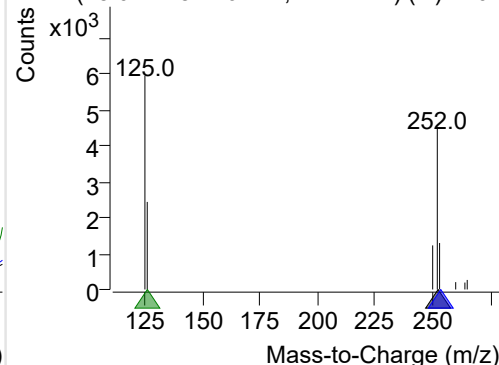
+ Selected Ion (252.0) 220707-PAHs-014.D



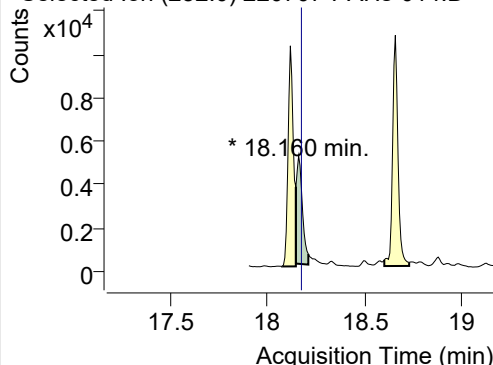
252.0, 253.0, 126.0



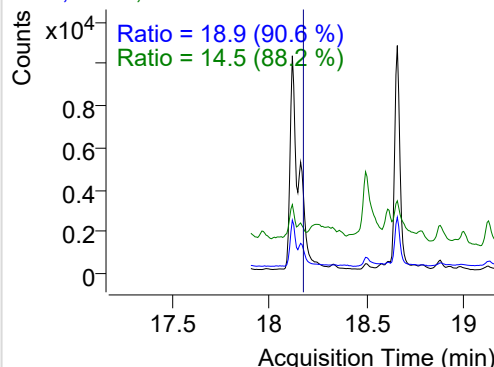
+ SIM (18.074-18.146 min, 11 scans) (**) 2207

**Benzo(k)fluoranthene**

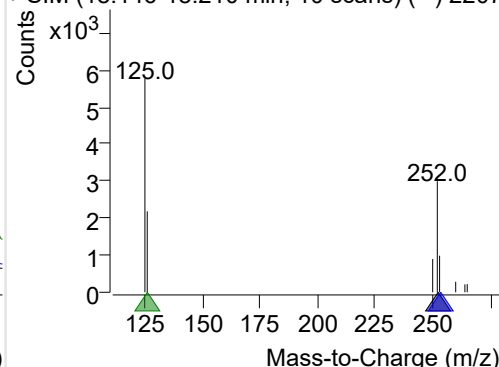
+ Selected Ion (252.0) 220707-PAHs-014.D



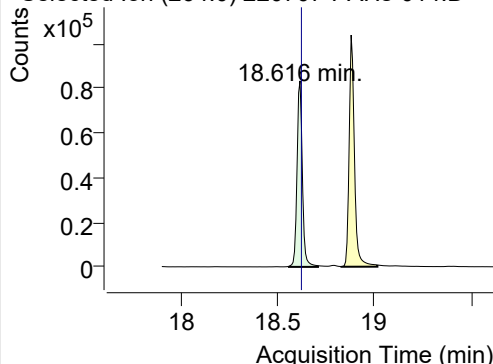
252.0, 253.0, 126.0



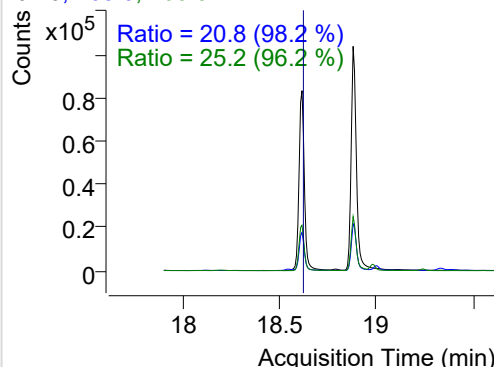
+ SIM (18.146-18.210 min, 10 scans) (**) 2207

**SS-D12-Benzo(e)pyrene**

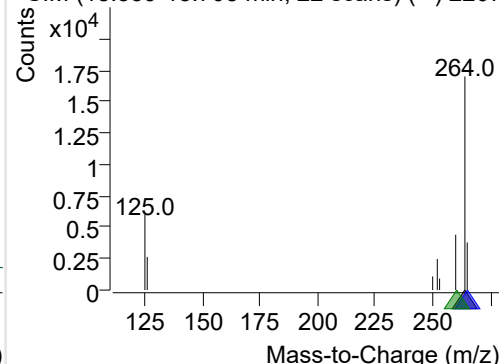
+ Selected Ion (264.0) 220707-PAHs-014.D



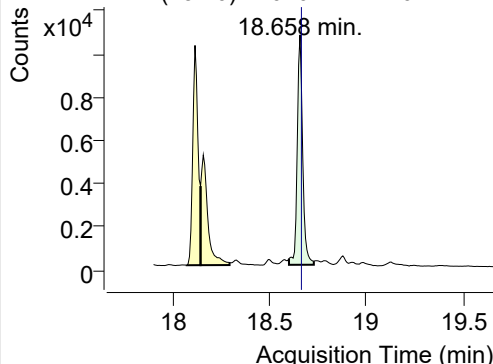
264.0, 265.0, 260.0



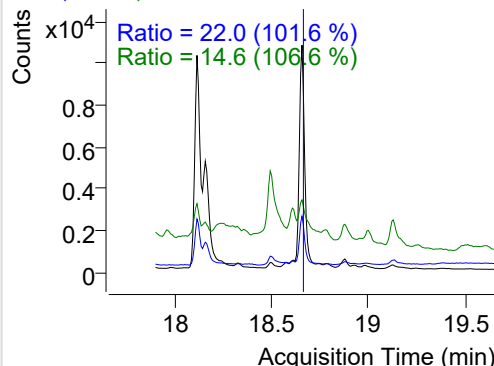
+ SIM (18.559-18.708 min, 22 scans) (**) 2207

**Benzo(e)pyrene**

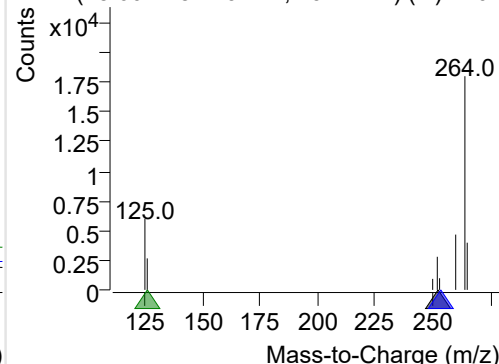
+ Selected Ion (252.0) 220707-PAHs-014.D



252.0, 253.0, 126.0



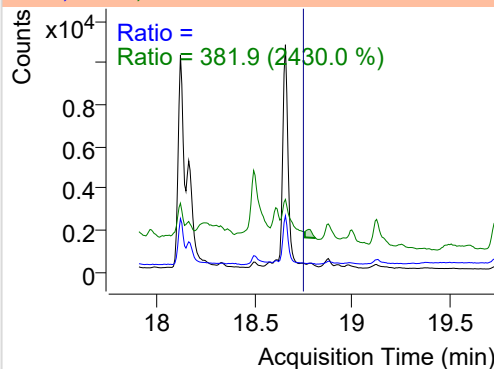
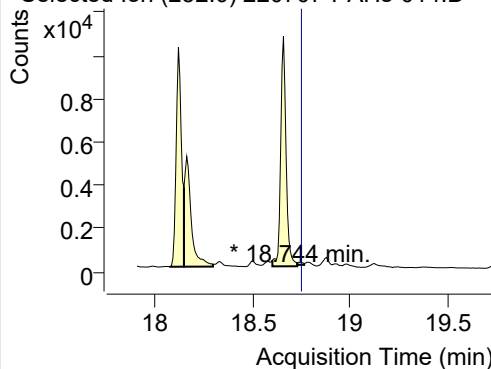
+ SIM (18.601-18.729 min, 19 scans) (**) 2207



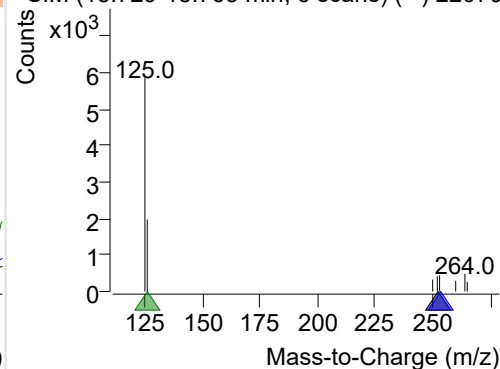
Benzo(a)pyrene

+ Selected Ion (252.0) 220707-PAHs-014.D

252.0, 253.0, 126.0

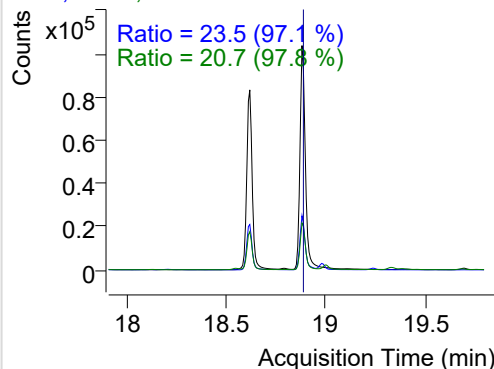
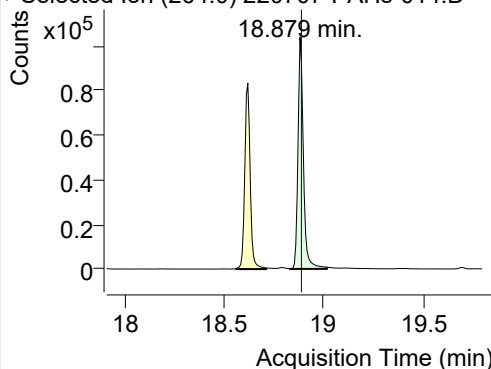


+ SIM (18.729-18.765 min, 6 scans) (**) 22070

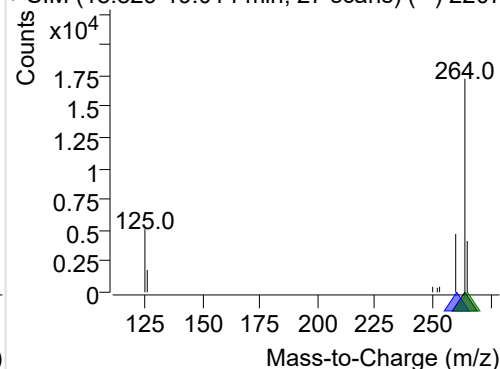
**IS-D12-Perylene**

+ Selected Ion (264.0) 220707-PAHs-014.D

264.0, 260.0, 265.0

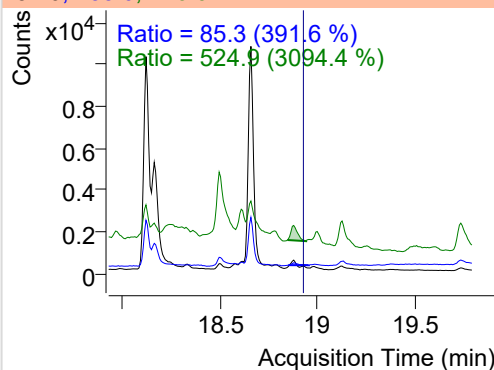
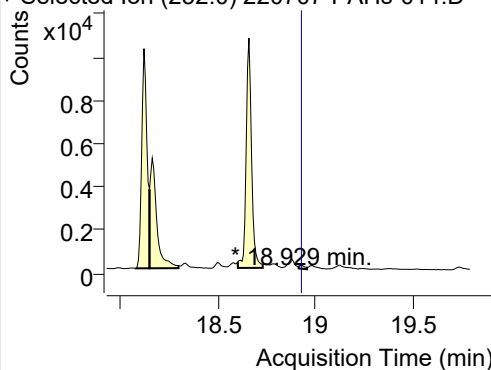


+ SIM (18.829-19.014 min, 27 scans) (**) 2207

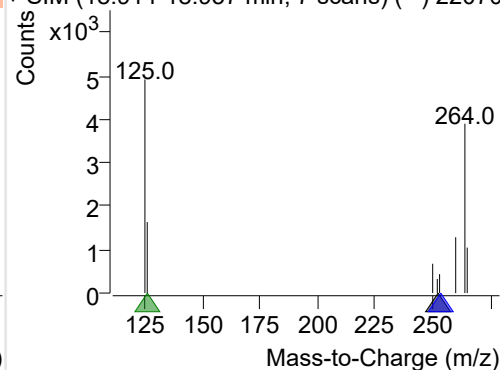
**Perylene**

+ Selected Ion (252.0) 220707-PAHs-014.D

252.0, 253.0, 126.0

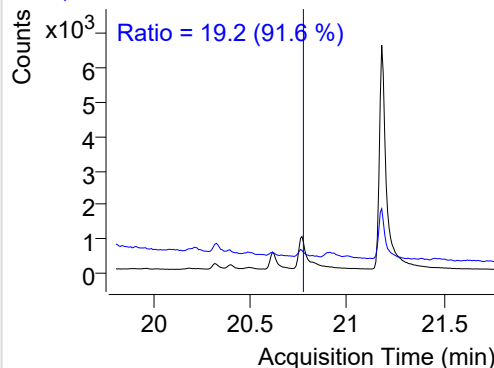
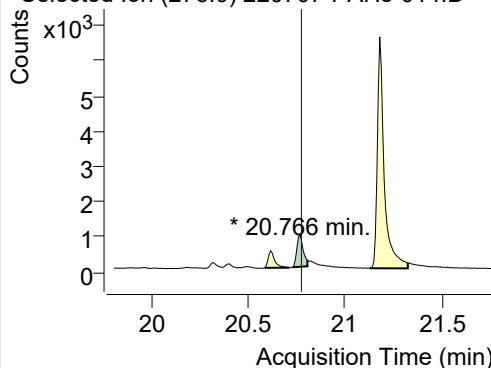


+ SIM (18.914-18.957 min, 7 scans) (**) 22070

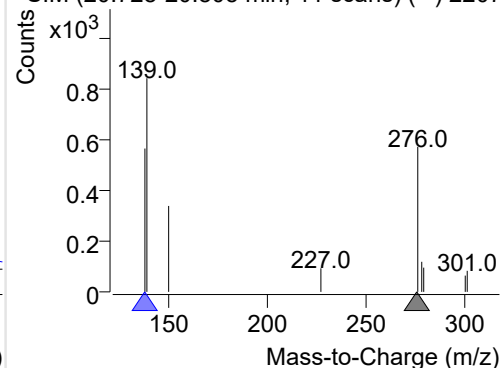
**Indeno(1,2,3-c,d)pyrene**

+ Selected Ion (276.0) 220707-PAHs-014.D

276.0, 138.0



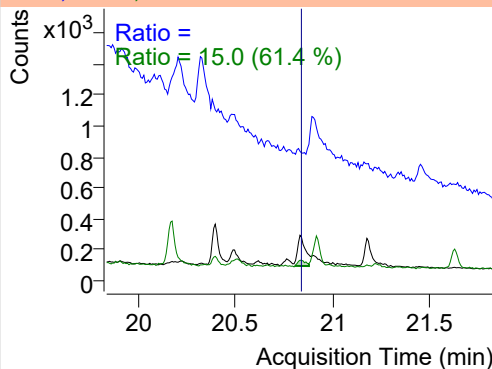
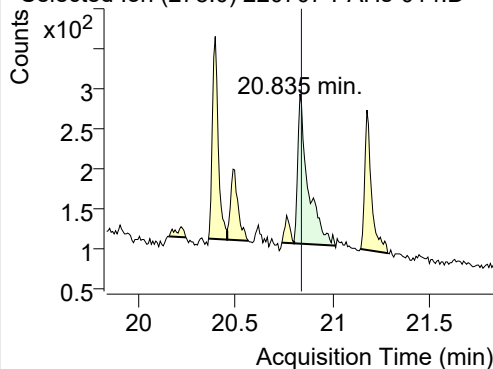
+ SIM (20.728-20.805 min, 11 scans) (**) 2207



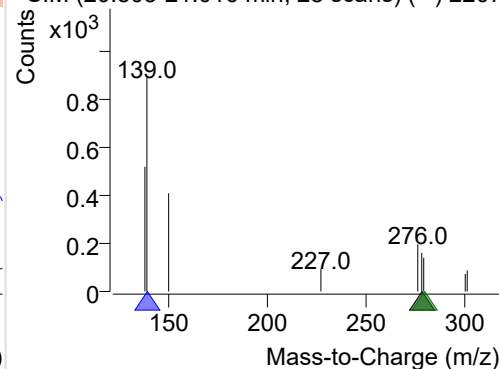
Dibenz(a,h)anthracene

+ Selected Ion (278.0) 220707-PAHs-014.D

278.0, 139.0, 279.0

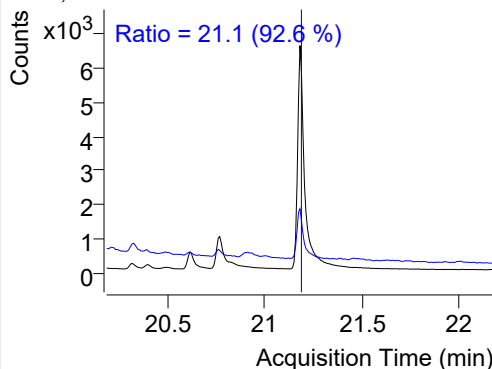
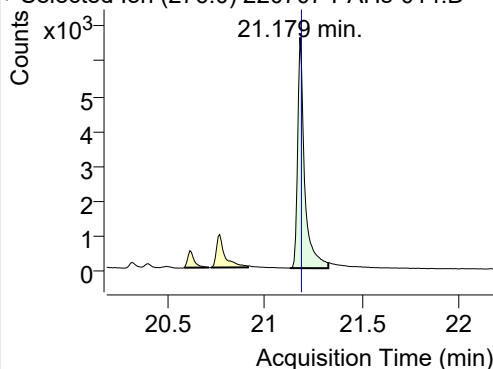


+ SIM (20.805-21.016 min, 28 scans) (**) 2207

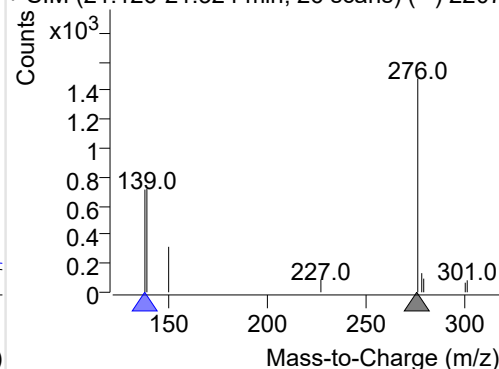
**Benzo(g,h,i)perylene**

+ Selected Ion (276.0) 220707-PAHs-014.D

276.0, 138.0

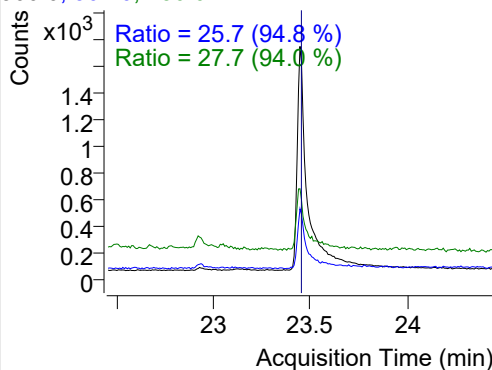
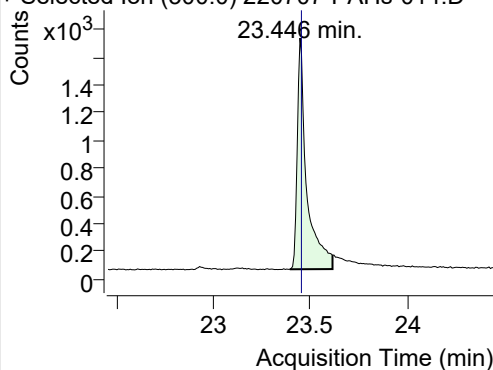


+ SIM (21.126-21.324 min, 26 scans) (**) 2207

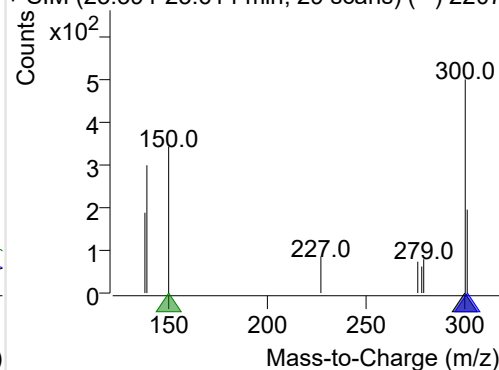
**Coronene**

+ Selected Ion (300.0) 220707-PAHs-014.D

300.0, 301.0, 150.0



+ SIM (23.394-23.614 min, 29 scans) (**) 2207



Quantitative Analysis Sample Based Report

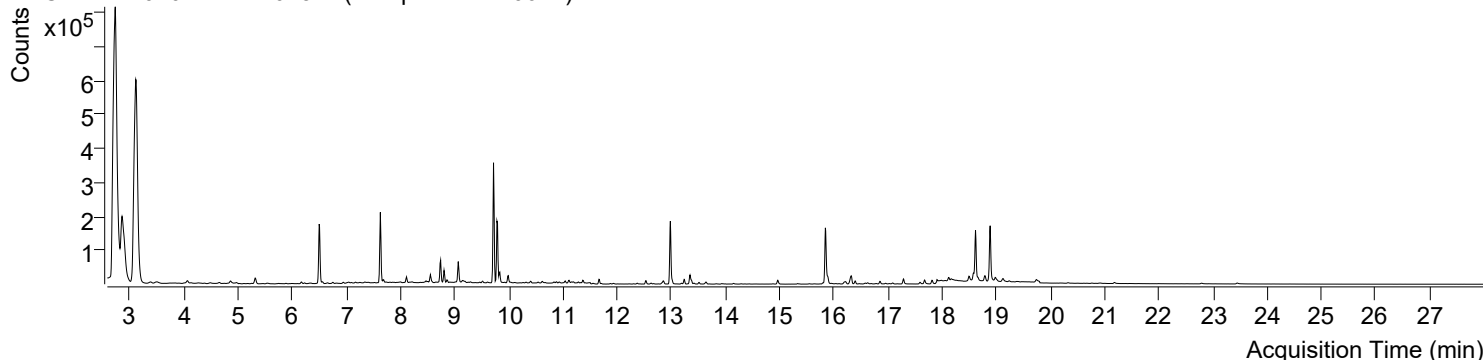


Trusted Answers

| | | | |
|---------------------------|--|-----------------------|------------------------|
| Batch Data Path File Name | D:\MassHunter\GCMS\1\data\PAHs\220707-PAHs-Sample\QuantResults\220707-PAHs-Quant.batch.bin | | |
| Analysis Time Stamp | 2022-07-09 오전 11:12:52 | Analyst Name | DESKTOP-86B7UPG\5975MS |
| Report Generation Time | 2022-07-09 오전 11:13:20 | Report Generator Name | DESKTOP-86B7UPG\5975MS |
| Calibration Last Update | 2022-07-09 오전 11:04:15 | Batch State | Processed |
| Analyze Quant Version | 10.2 | Report Quant Version | 10.2 |
| Acq. Date-Time | 2022-07-07 오후 8:35:07 | Data File | 220707-PAHs-015.D |
| Type | Sample | Name | Sample-PM-220622 |
| Dil. | 1 | Acq. Method File | PAHs 19mix-Method |

Sample Chromatogram

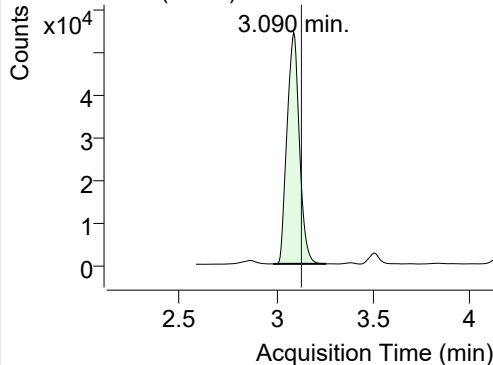
+ TIC SIM 220707-PAHs-015.D (Sample-PM-220622)



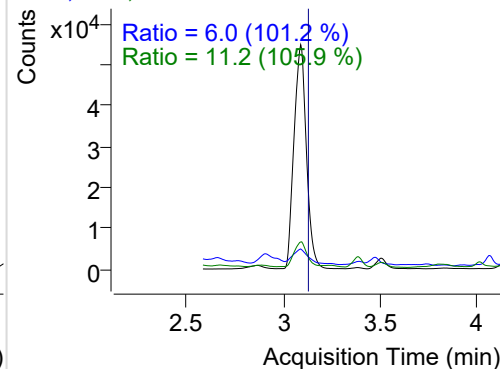
| Name | RT | Transition | Resp. | Height | Final Conc. Units | Ratio |
|-------------------------|--------|------------|---------|-----------|-------------------|-------|
| IS-D8-Naphthalene | 3.090 | 136.0 | 241267 | 54601.13 | ND ng/ml | 11.2 |
| Naphthalene | 3.117 | 128.0 | 2025795 | 450295.00 | ND ng/ml | 12.1 |
| Acenaphthylene | 6.167 | 152.0 | 6908 | 3550.59 | ND ng/ml | 21.6 |
| IS-D10-Acenaphthene | 6.498 | 164.0 | 150678 | 83291.80 | ND ng/ml | 95.6 |
| Acenaphthene | 6.564 | 154.0 | 2608 | 1313.33 | ND ng/ml | 106.8 |
| LSS-D10-Fluorene | 7.627 | 176.0 | 150119 | 93919.86 | ND ng/ml | 92.1 |
| Fluorene | 7.680 | 166.0 | 6859 | 3632.06 | ND ng/ml | 103.6 |
| IS-D10-Phenanthrene | 9.790 | 188.0 | 254424 | 141877.46 | ND ng/ml | 15.4 |
| Phenanthrene | 9.832 | 178.0 | 32789 | 19421.26 | ND ng/ml | 19.6 |
| Anthracene | 9.990 | 178.0 | 9993 | 6007.26 | ND ng/ml | 28.1 |
| Fluoranthene | 12.532 | 202.0 | 12918 | 7671.10 | ND ng/ml | 17.6 |
| LSS-D10-Pyrene | 12.981 | 212.0 | 218221 | 137054.20 | ND ng/ml | 17.9 |
| Pyrene | 13.014 | 202.0 | 13328 | 7761.55 | ND ng/ml | 15.4 |
| Benz(a)anthracene | 15.800 | 228.0 | 2452 | 1345.65 | ND ng/ml | 29.4 |
| IS-D12-Chrysene | 15.843 | 240.0 | 231619 | 124082.29 | ND ng/ml | 18.3 |
| Chrysene | 15.892 | 228.0 | 10293 | 4914.99 | ND ng/ml | 27.0 |
| Benzo(b)fluoranthene | 18.124 | 252.0 | 9948 | 5377.60 | ND ng/ml | 20.4 |
| Benzo(k)fluoranthene | 18.167 | 252.0 | 6725 | 2947.26 | ND ng/ml | 23.5 |
| SS-D12-Benzo(e)pyrene | 18.615 | 264.0 | 187046 | 99933.41 | ND ng/ml | 22.5 |
| Benzo(e)pyrene | 18.658 | 252.0 | 8944 | 4442.00 | ND ng/ml | 21.3 |
| Benzo(a)pyrene | 18.786 | 252.0 | 2266 | 794.45 | ND ng/ml | 6.8 |
| IS-D12-Perylene | 18.886 | 264.0 | 210246 | 111340.06 | ND ng/ml | 23.3 |
| Perylene | 18.907 | 252.0 | 287 | 138.67 | ND ng/ml | 109.2 |
| Indeno(1,2,3-c,d)pyrene | 20.766 | 276.0 | 2225 | 846.58 | ND ng/ml | 18.7 |
| Dibenz(a,h)anthracene | 20.835 | 278.0 | 699 | 176.05 | ND ng/ml | 12.0 |
| Benzo(g,h,i)perylene | 21.179 | 276.0 | 6202 | 2357.55 | ND ng/ml | 20.0 |
| Coronene | 23.446 | 300.0 | 5780 | 1700.69 | ND ng/ml | 26.1 |

IS-D8-Naphthalene

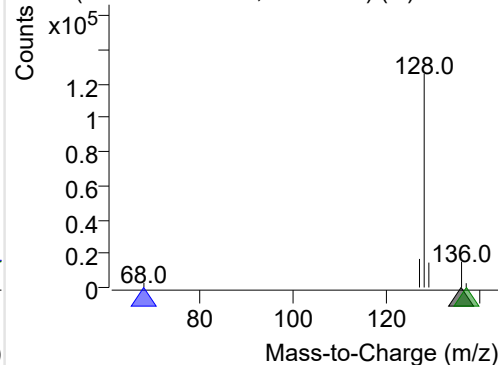
+ Selected Ion (136.0) 220707-PAHs-015.D



136.0, 68.0, 137.0

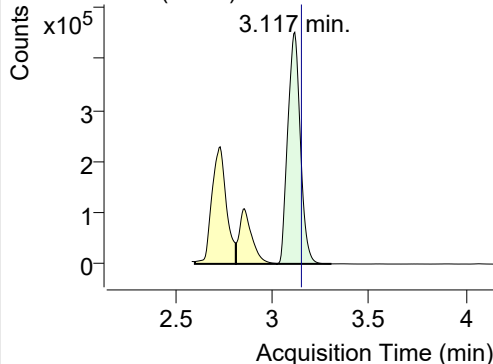


+ SIM (2.984-3.258 min, 50 scans) (**) 220707

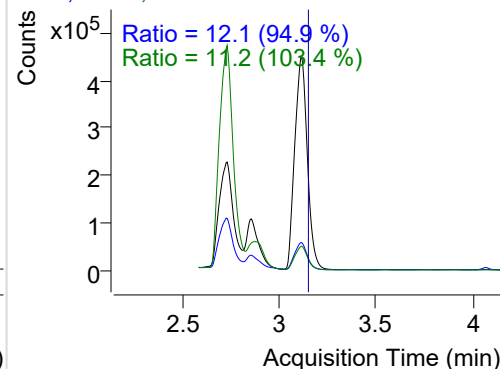


Naphthalene

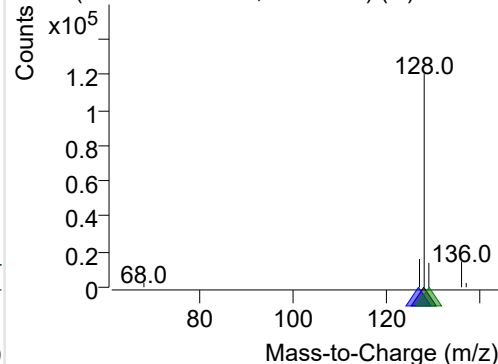
+ Selected Ion (128.0) 220707-PAHs-015.D



128.0, 127.0, 129.0

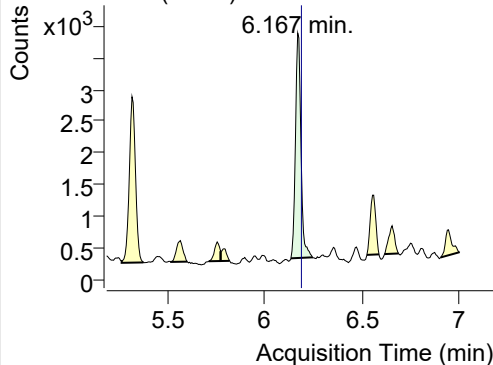


+ SIM (3.025-3.306 min, 52 scans) (**) 220707

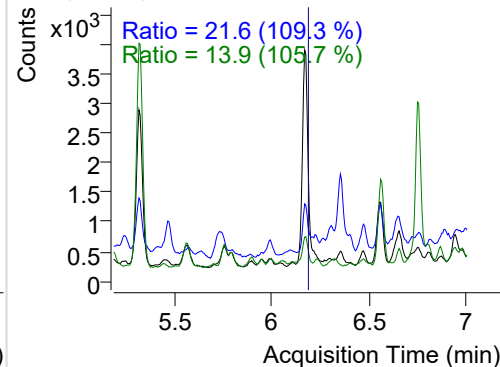


Acenaphthylene

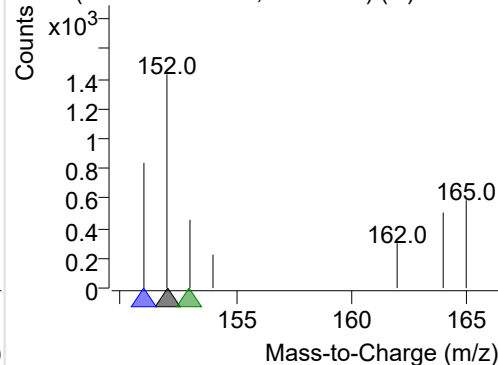
+ Selected Ion (152.0) 220707-PAHs-015.D



152.0, 151.0, 153.0

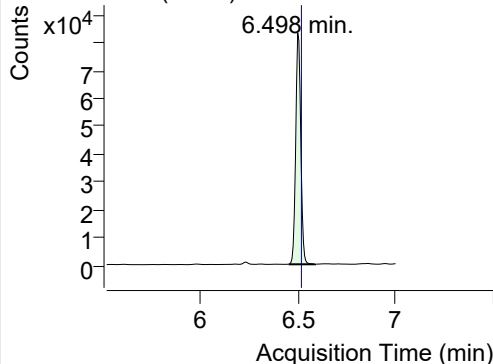


+ SIM (6.132-6.243 min, 18 scans) (**) 220707

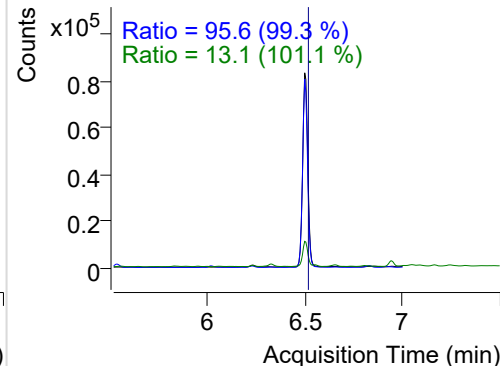


IS-D10-Acenaphthene

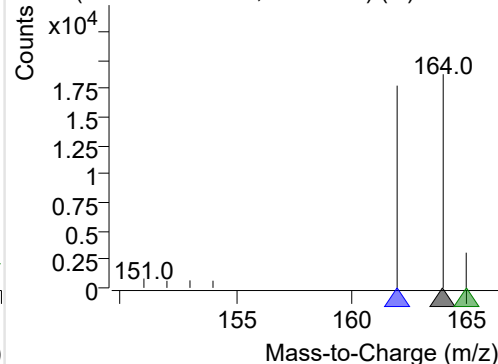
+ Selected Ion (164.0) 220707-PAHs-015.D



164.0, 162.0, 165.0

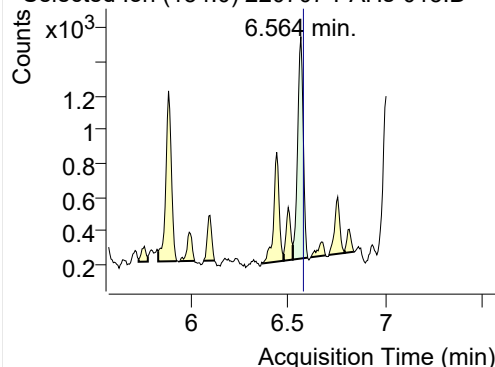


+ SIM (6.457-6.587 min, 23 scans) (**) 220707

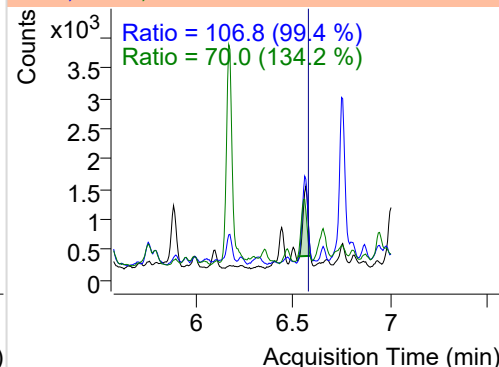


Acenaphthene

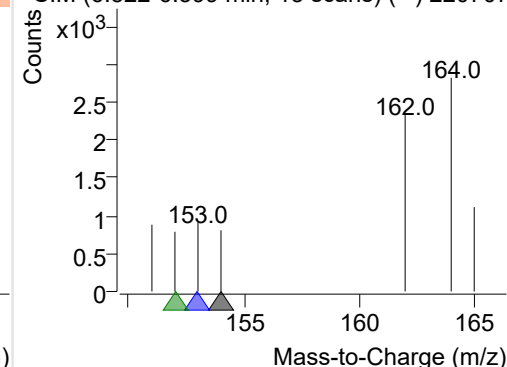
+ Selected Ion (154.0) 220707-PAHs-015.D



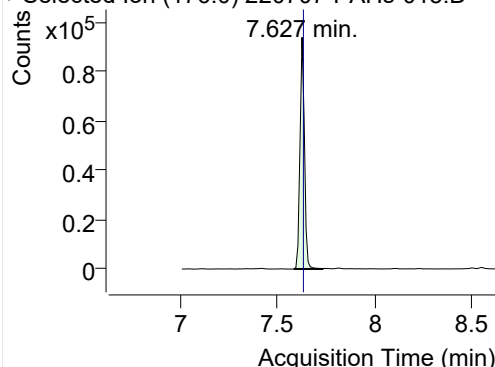
154.0, 153.0, 152.0



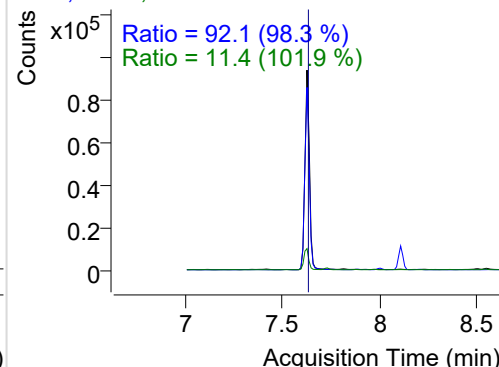
+ SIM (6.522-6.599 min, 13 scans) (**) 220707

**LSS-D10-Fluorene**

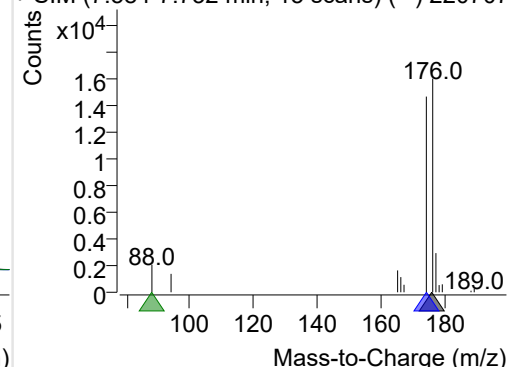
+ Selected Ion (176.0) 220707-PAHs-015.D



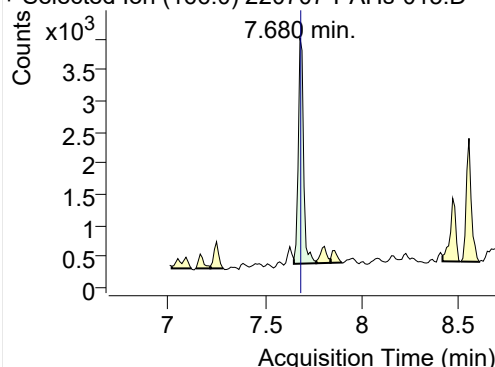
176.0, 174.0, 88.0



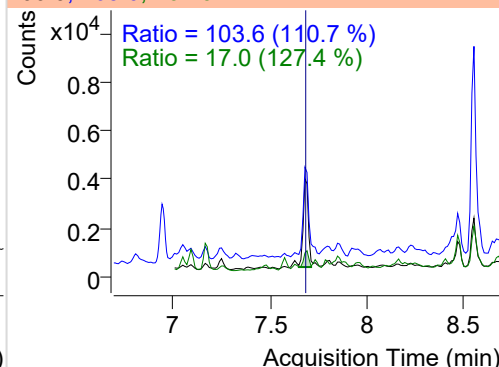
+ SIM (7.584-7.732 min, 15 scans) (**) 220707

**Fluorene**

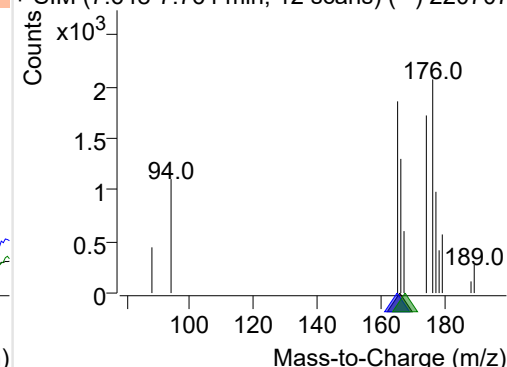
+ Selected Ion (166.0) 220707-PAHs-015.D



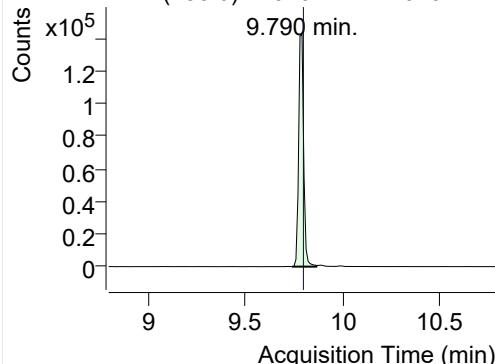
166.0, 165.0, 167.0



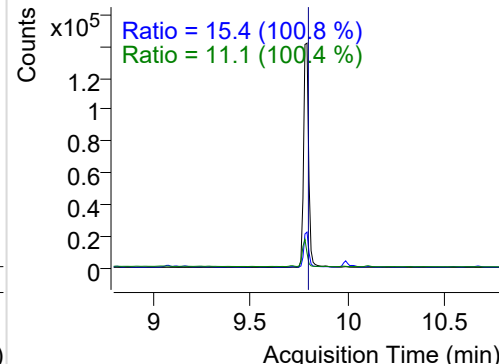
+ SIM (7.648-7.764 min, 12 scans) (**) 220707

**IS-D10-Phenanthrene**

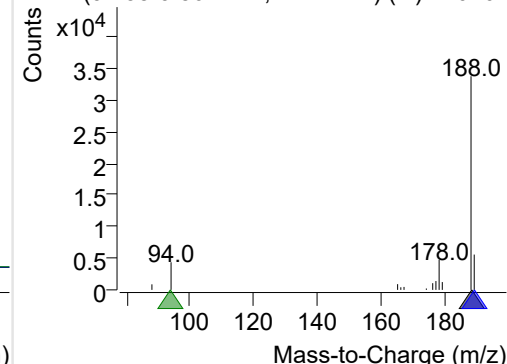
+ Selected Ion (188.0) 220707-PAHs-015.D



188.0, 189.0, 94.0

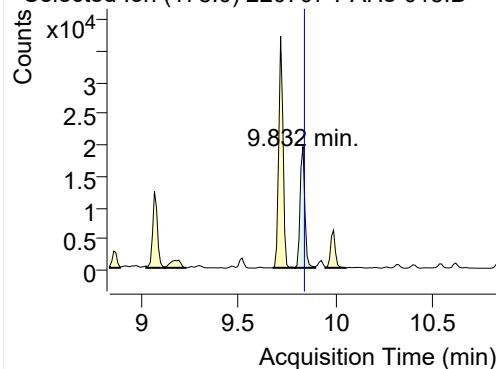


+ SIM (9.738-9.864 min, 12 scans) (**) 220707

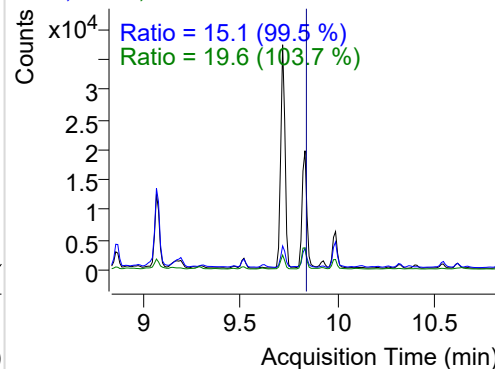


Phenanthrene

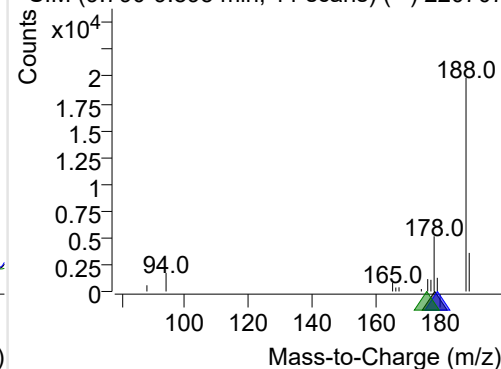
+ Selected Ion (178.0) 220707-PAHs-015.D



178.0, 179.0, 176.0

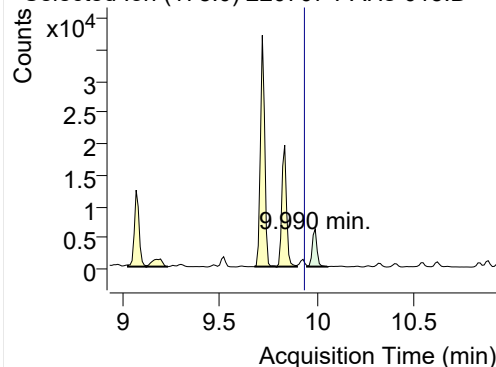


+ SIM (9.790-9.895 min, 11 scans) (**) 220707

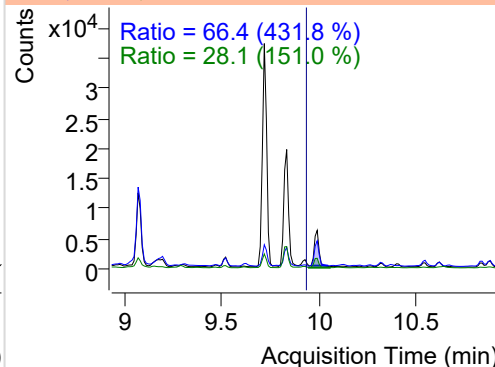


Anthracene

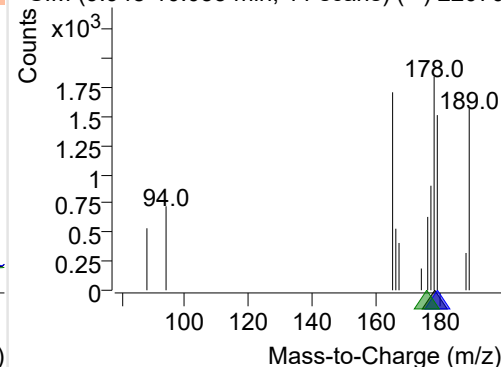
+ Selected Ion (178.0) 220707-PAHs-015.D



178.0, 179.0, 176.0

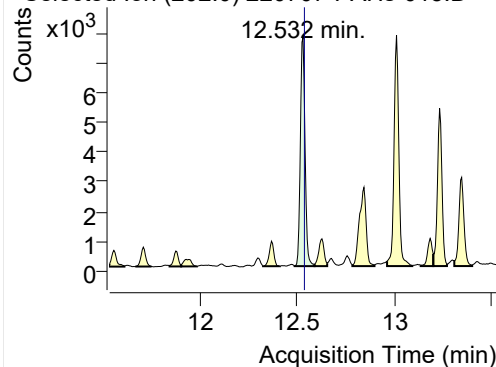


+ SIM (9.948-10.053 min, 11 scans) (**) 220707

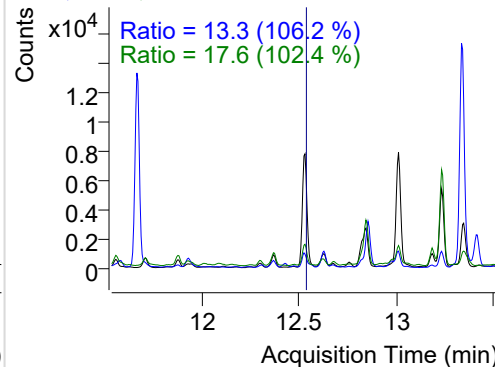


Fluoranthene

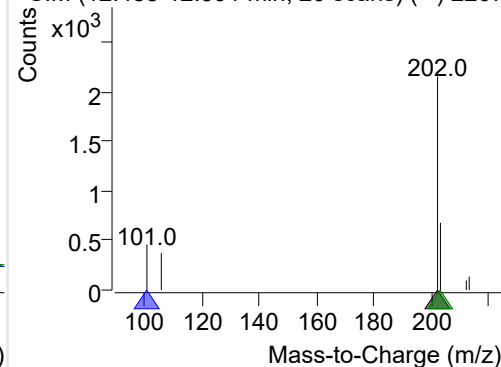
+ Selected Ion (202.0) 220707-PAHs-015.D



202.0, 101.0, 203.0

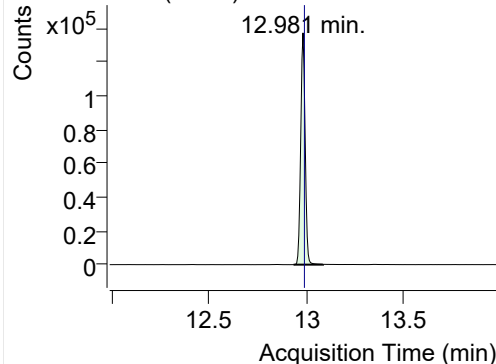


+ SIM (12.488-12.591 min, 20 scans) (**) 220707

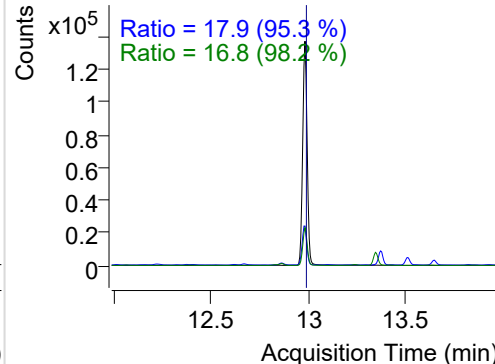


LSS-D10-Pyrene

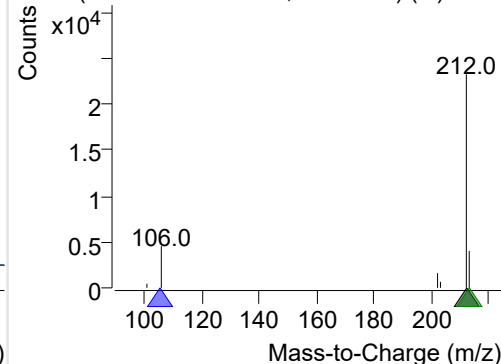
+ Selected Ion (212.0) 220707-PAHs-015.D



212.0, 106.0, 213.0

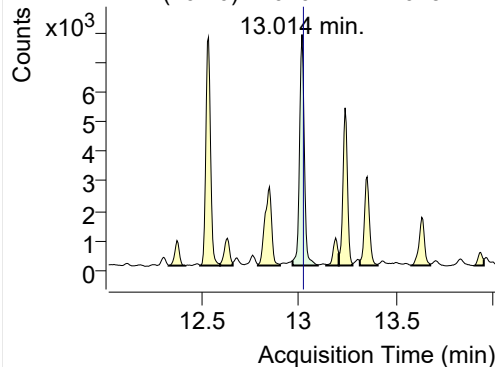


+ SIM (12.933-13.084 min, 29 scans) (**) 220707

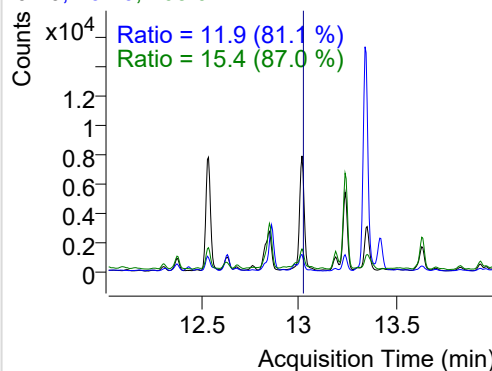


Pyrene

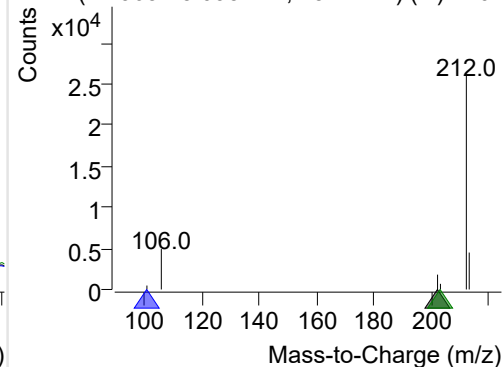
+ Selected Ion (202.0) 220707-PAHs-015.D



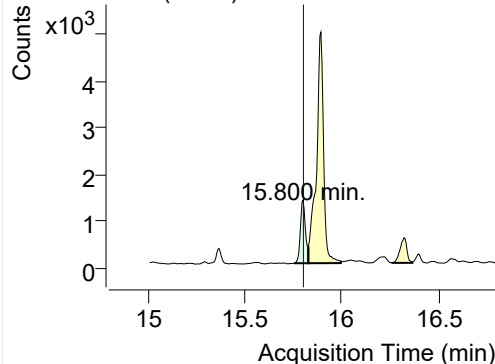
202.0, 101.0, 203.0



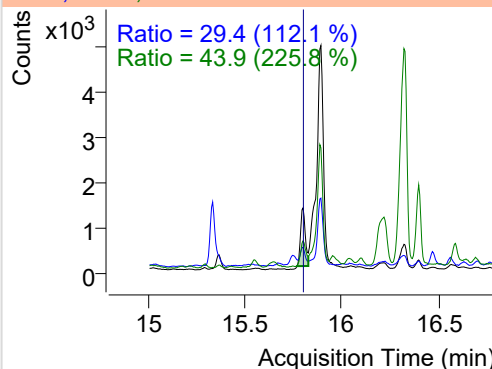
+ SIM (12.965-13.095 min, 25 scans) (**) 2207

**Benz(a)anthracene**

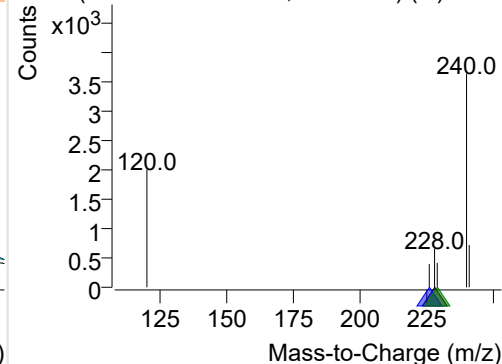
+ Selected Ion (228.0) 220707-PAHs-015.D



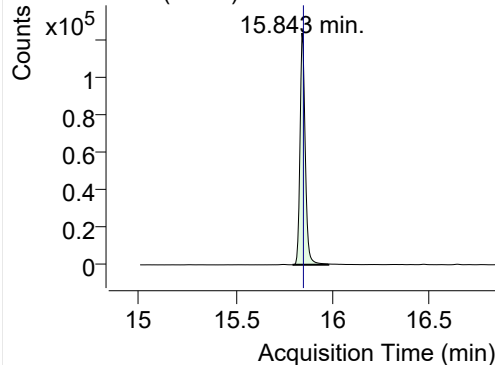
228.0, 226.0, 229.0



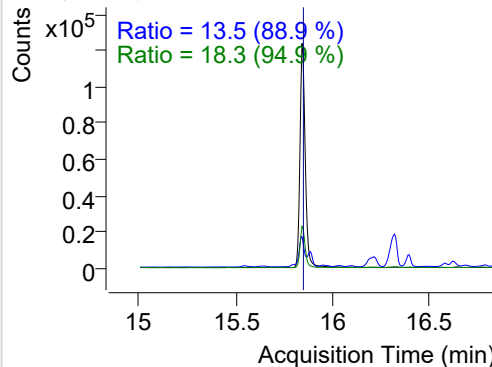
+ SIM (15.754-15.827 min, 14 scans) (**) 2207

**IS-D12-Chrysene**

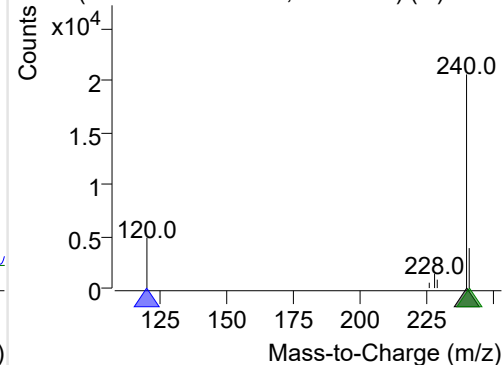
+ Selected Ion (240.0) 220707-PAHs-015.D



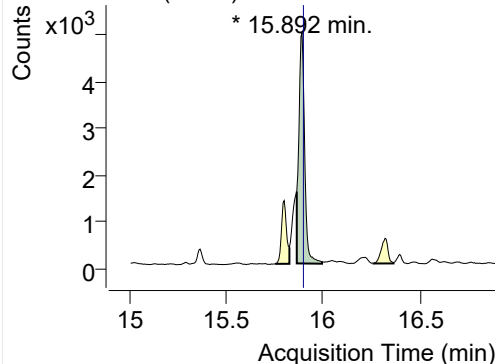
240.0, 120.0, 241.0



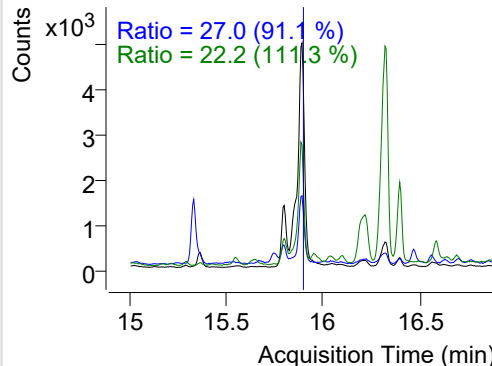
+ SIM (15.795-15.979 min, 35 scans) (**) 2207

**Chrysene**

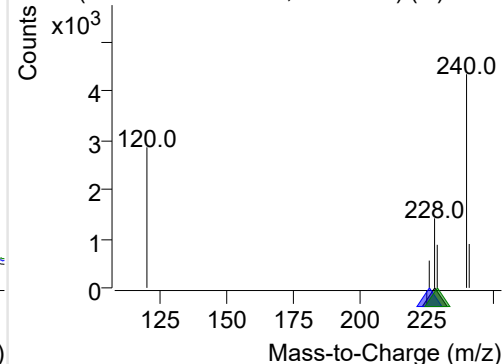
+ Selected Ion (228.0) 220707-PAHs-015.D



228.0, 226.0, 229.0

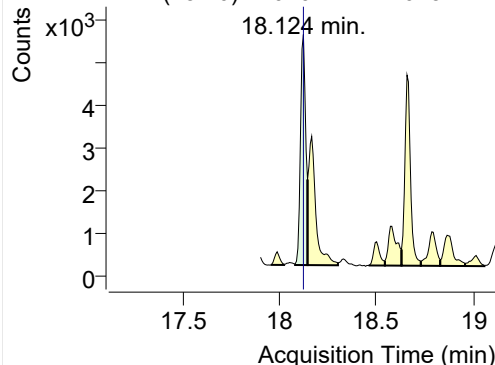


+ SIM (15.865-15.995 min, 25 scans) (**) 2207

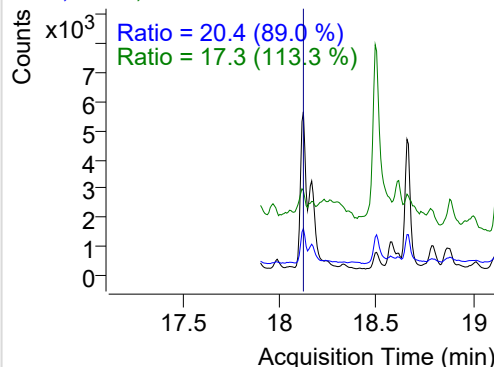


Benzo(b)fluoranthene

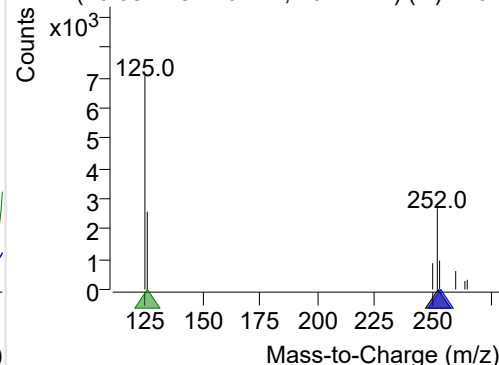
+ Selected Ion (252.0) 220707-PAHs-015.D



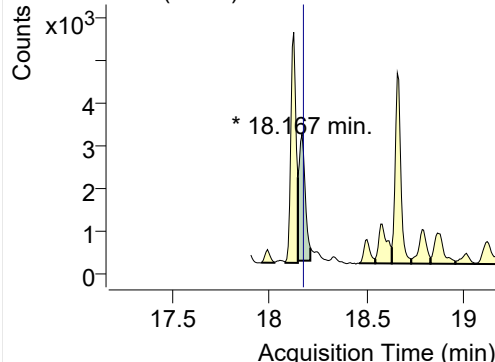
252.0, 253.0, 126.0



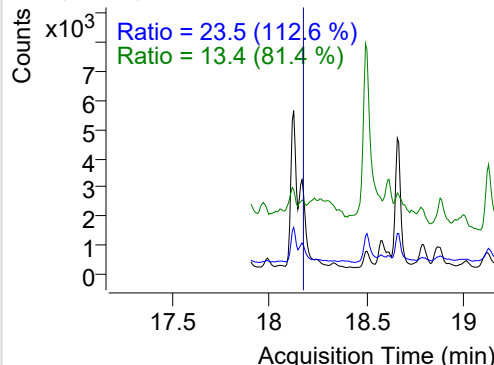
+ SIM (18.082-18.146 min, 10 scans) (**) 2207

**Benzo(k)fluoranthene**

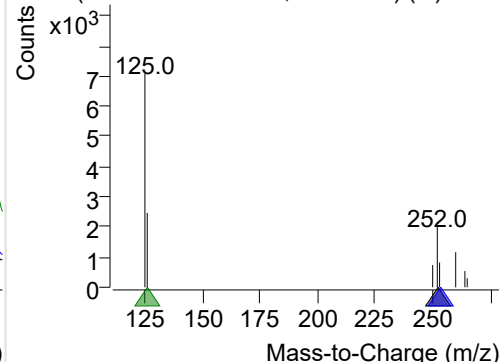
+ Selected Ion (252.0) 220707-PAHs-015.D



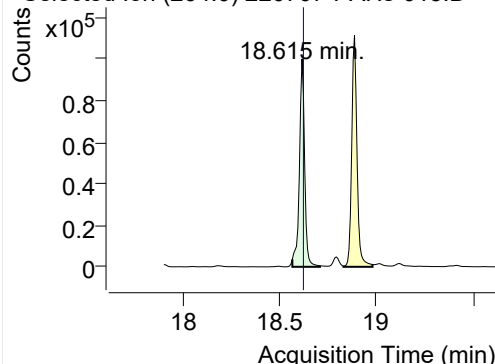
252.0, 253.0, 126.0



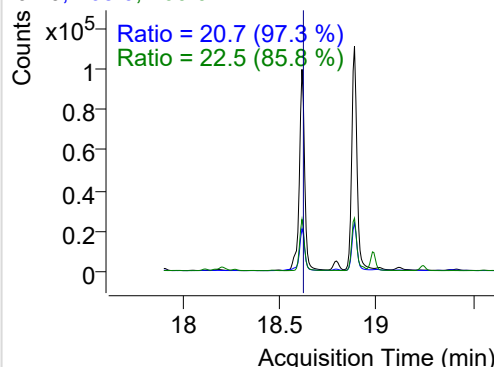
+ SIM (18.146-18.210 min, 10 scans) (**) 2207

**SS-D12-Benzo(e)pyrene**

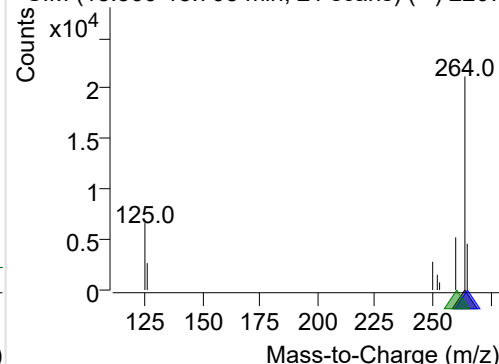
+ Selected Ion (264.0) 220707-PAHs-015.D



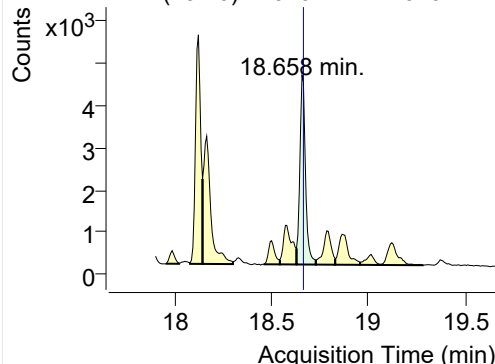
264.0, 265.0, 260.0



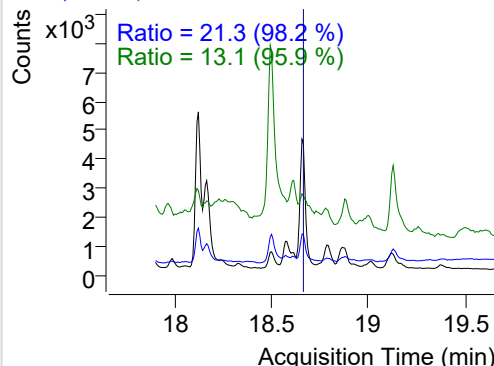
+ SIM (18.566-18.708 min, 21 scans) (**) 2207

**Benzo(e)pyrene**

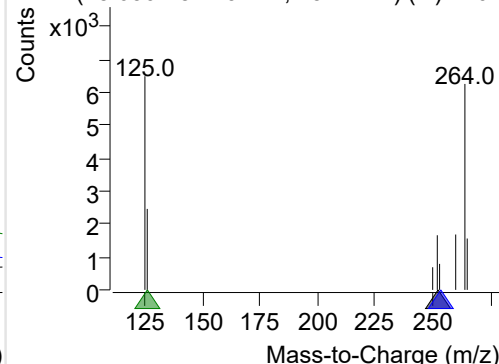
+ Selected Ion (252.0) 220707-PAHs-015.D



252.0, 253.0, 126.0



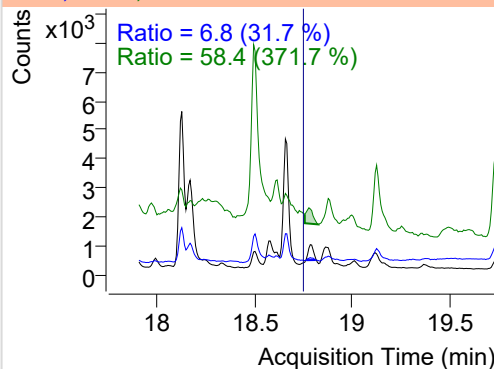
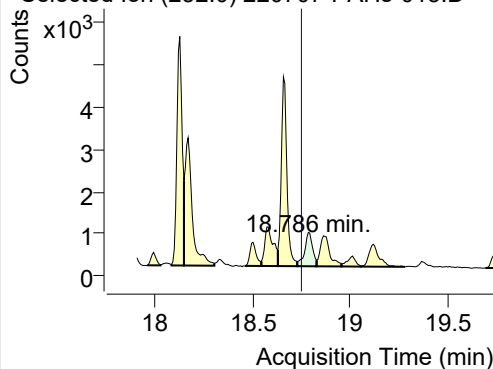
+ SIM (18.630-18.729 min, 15 scans) (**) 2207



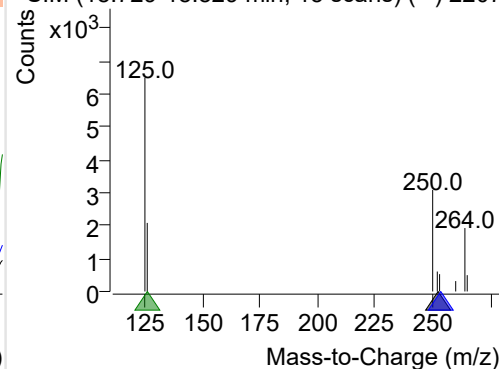
Benzo(a)pyrene

+ Selected Ion (252.0) 220707-PAHs-015.D

252.0, 253.0, 126.0

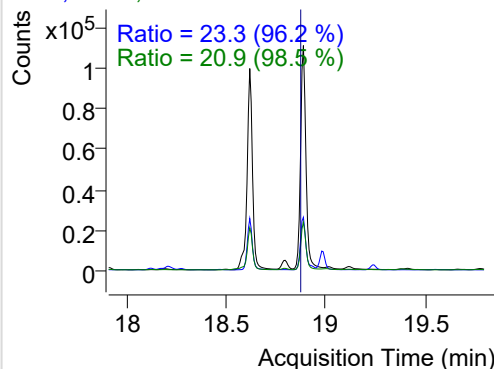
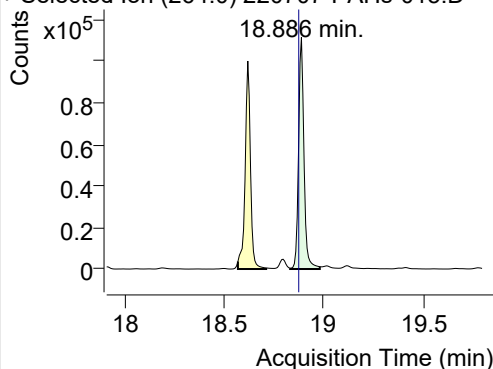


+ SIM (18.729-18.829 min, 15 scans) (**) 2207

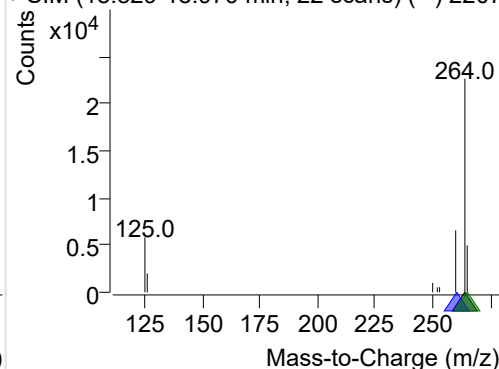
**IS-D12-Perylene**

+ Selected Ion (264.0) 220707-PAHs-015.D

264.0, 260.0, 265.0

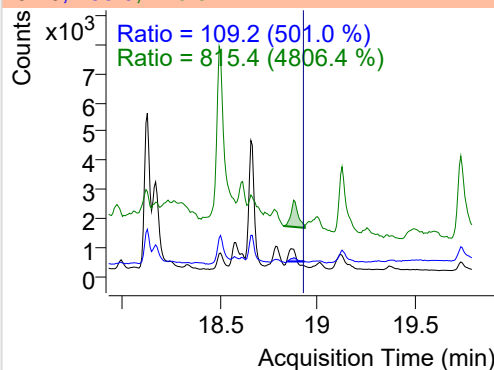
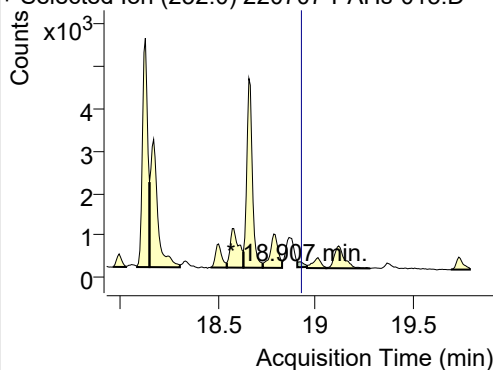


+ SIM (18.829-18.979 min, 22 scans) (**) 2207

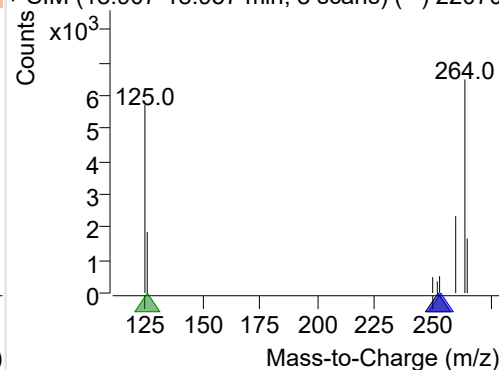
**Perylene**

+ Selected Ion (252.0) 220707-PAHs-015.D

252.0, 253.0, 126.0

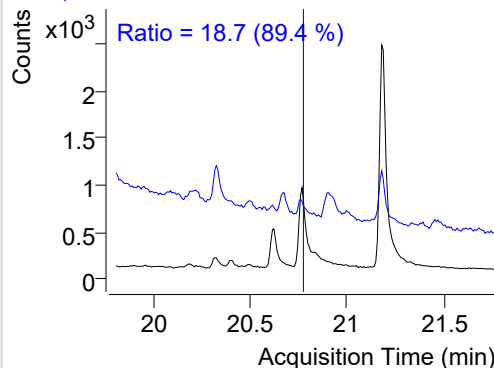
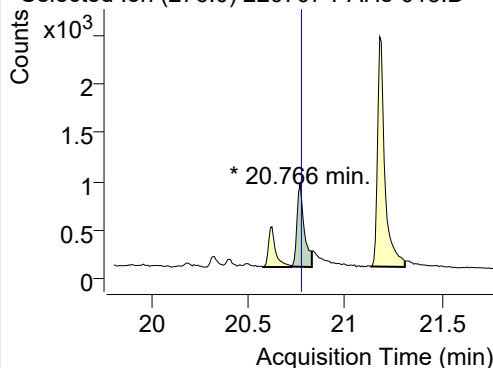


+ SIM (18.907-18.957 min, 8 scans) (**) 22070

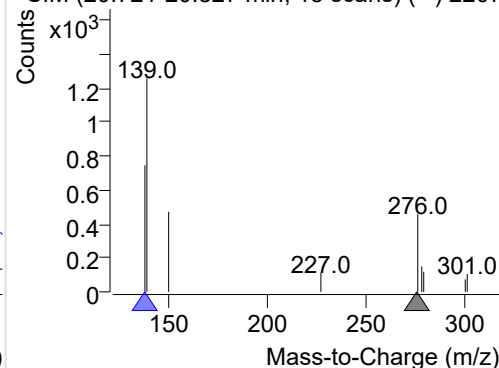
**Indeno(1,2,3-c,d)pyrene**

+ Selected Ion (276.0) 220707-PAHs-015.D

276.0, 138.0



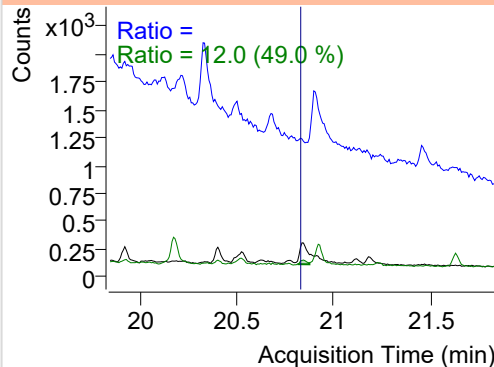
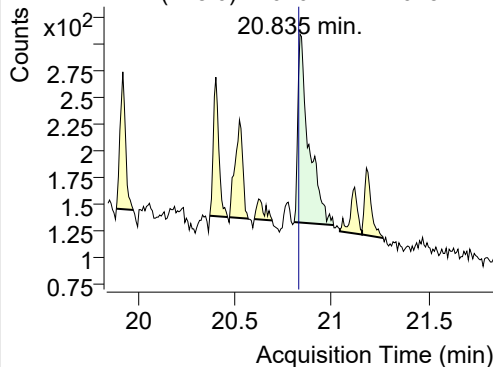
+ SIM (20.721-20.827 min, 15 scans) (**) 2207



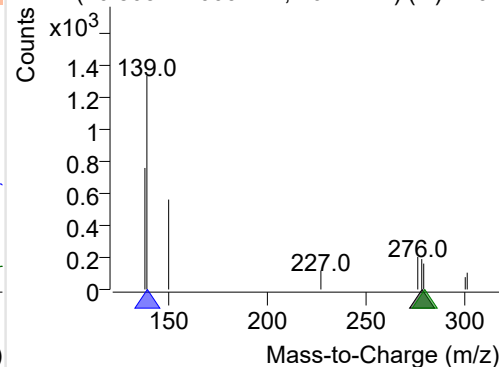
Dibenz(a,h)anthracene

+ Selected Ion (278.0) 220707-PAHs-015.D

278.0, 139.0, 279.0

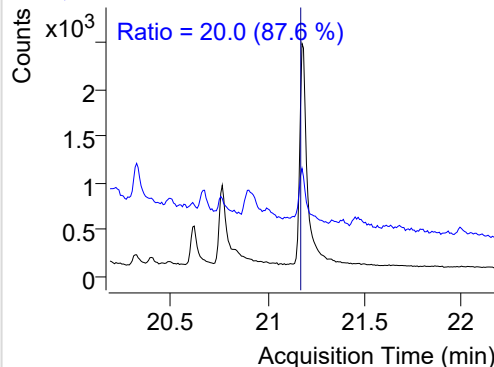
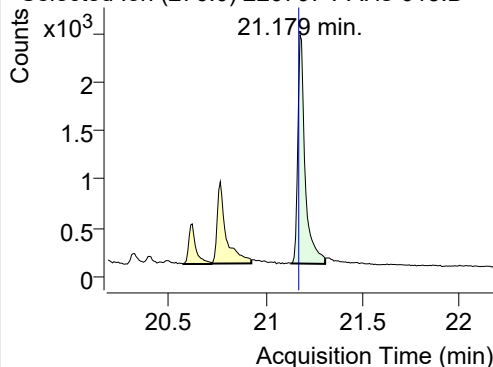


+ SIM (20.805-21.009 min, 26 scans) (**) 2207

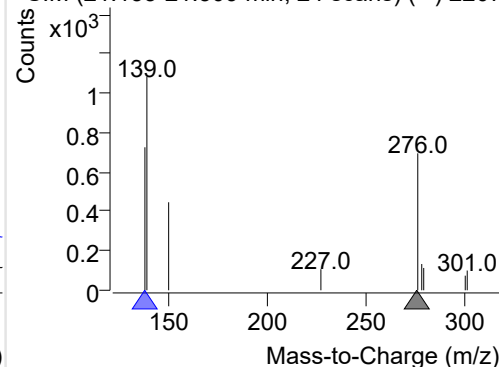
**Benzo(g,h,i)perylene**

+ Selected Ion (276.0) 220707-PAHs-015.D

276.0, 138.0

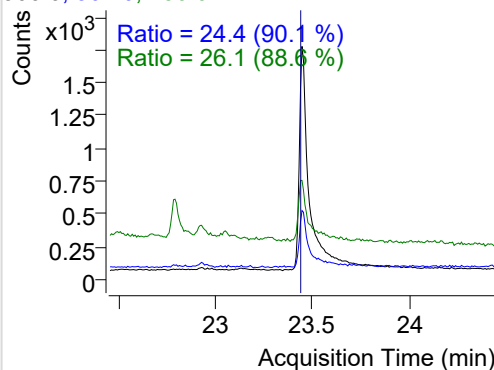
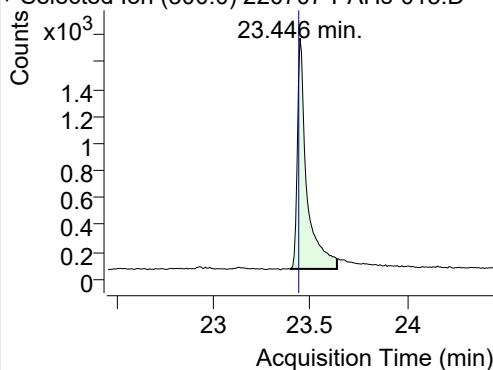


+ SIM (21.133-21.309 min, 24 scans) (**) 2207

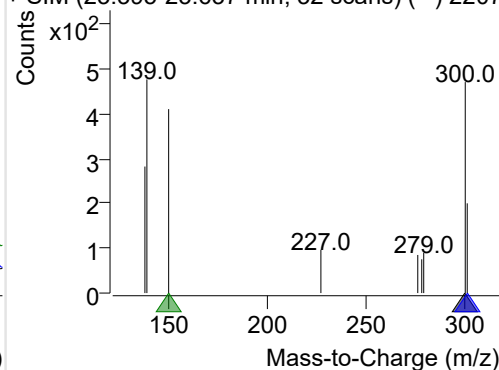
**Coronene**

+ Selected Ion (300.0) 220707-PAHs-015.D

300.0, 301.0, 150.0



+ SIM (23.395-23.637 min, 32 scans) (**) 2207



Quantitative Analysis Sample Based Report

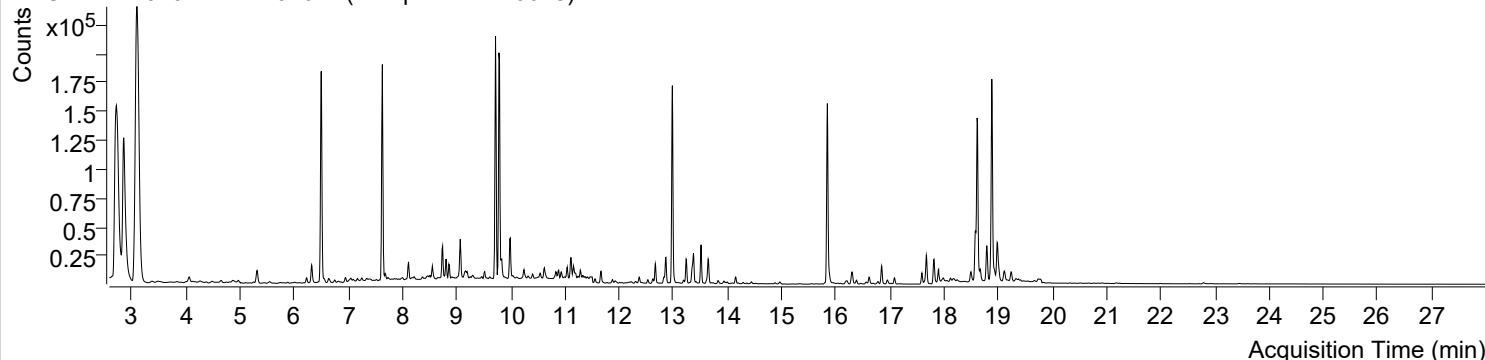


Trusted Answers

| | | | |
|---------------------------|--|-----------------------|------------------------|
| Batch Data Path File Name | D:\MassHunter\GCMS\1\data\PAHs\220707-PAHs-Sample\QuantResults\220707-PAHs-Quant.batch.bin | | |
| Analysis Time Stamp | 2022-07-09 오전 11:12:52 | Analyst Name | DESKTOP-86B7UPG\5975MS |
| Report Generation Time | 2022-07-09 오전 11:13:20 | Report Generator Name | DESKTOP-86B7UPG\5975MS |
| Calibration Last Update | 2022-07-09 오전 11:04:15 | Batch State | Processed |
| Analyze Quant Version | 10.2 | Report Quant Version | 10.2 |
| Acq. Date-Time | 2022-07-07 오후 9:06:19 | Data File | 220707-PAHs-016.D |
| Type | Sample | Name | Sample-PM-220628 |
| Dil. | 1 | Acq. Method File | PAHs 19mix-Method |

Sample Chromatogram

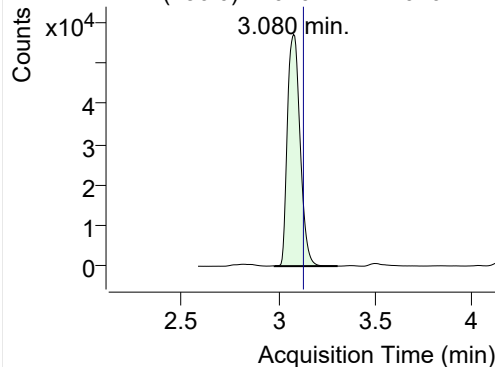
+ TIC SIM 220707-PAHs-016.D (Sample-PM-220628)



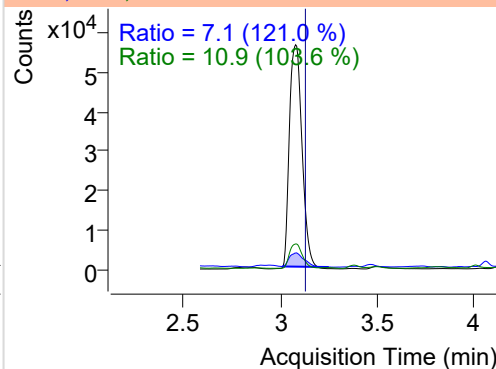
| Name | RT | Transition | Resp. | Height | Final Conc. Units | Ratio |
|-------------------------|--------|------------|--------|-----------|-------------------|-------|
| IS-D8-Naphthalene | 3.080 | 136.0 | 258667 | 56781.68 | ND ng/ml | 10.9 |
| Naphthalene | 3.101 | 128.0 | 678047 | 148829.75 | ND ng/ml | 12.8 |
| Acenaphthylene | 6.315 | 152.0 | 837 | 273.60 | ND ng/ml | 550.2 |
| IS-D10-Acenaphthene | 6.499 | 164.0 | 158630 | 87508.30 | ND ng/ml | 96.0 |
| Acenaphthene | 6.558 | 154.0 | 1441 | 703.10 | ND ng/ml | 119.3 |
| LSS-D10-Fluorene | 7.627 | 176.0 | 138719 | 85375.01 | ND ng/ml | 92.3 |
| Fluorene | 7.680 | 166.0 | 3465 | 2052.86 | ND ng/ml | 124.2 |
| IS-D10-Phenanthrene | 9.790 | 188.0 | 272034 | 154875.21 | ND ng/ml | 15.3 |
| Phenanthrene | 9.832 | 178.0 | 15629 | 9250.04 | ND ng/ml | 19.7 |
| Anthracene | 9.990 | 178.0 | 16140 | 9815.99 | ND ng/ml | 27.8 |
| Fluoranthene | 12.532 | 202.0 | 3511 | 2194.21 | ND ng/ml | |
| LSS-D10-Pyrene | 12.982 | 212.0 | 201171 | 126179.30 | ND ng/ml | 18.6 |
| Pyrene | 13.014 | 202.0 | 3177 | 1984.32 | ND ng/ml | |
| Benz(a)anthracene | 15.800 | 228.0 | 531 | 303.89 | ND ng/ml | 45.3 |
| IS-D12-Chrysene | 15.844 | 240.0 | 205115 | 117226.91 | ND ng/ml | 19.0 |
| Chrysene | 15.887 | 228.0 | 1820 | 902.35 | ND ng/ml | 30.3 |
| Benzo(b)fluoranthene | 18.117 | 252.0 | 2431 | 1291.80 | ND ng/ml | 24.3 |
| Benzo(k)fluoranthene | 18.160 | 252.0 | 1510 | 714.05 | ND ng/ml | 29.1 |
| SS-D12-Benzo(e)pyrene | 18.609 | 264.0 | 205397 | 94966.28 | ND ng/ml | 22.3 |
| Benzo(e)pyrene | 18.665 | 252.0 | 12984 | 6526.04 | ND ng/ml | 20.9 |
| Benzo(a)pyrene | 18.787 | 252.0 | 3344 | 1250.75 | ND ng/ml | 9.9 |
| IS-D12-Perylene | 18.879 | 264.0 | 221066 | 118622.28 | ND ng/ml | 24.8 |
| Perylene | 18.929 | 252.0 | 352 | 169.20 | ND ng/ml | 40.4 |
| Indeno(1,2,3-c,d)pyrene | 20.767 | 276.0 | 615 | 249.37 | ND ng/ml | 9.9 |
| Dibenz(a,h)anthracene | 20.835 | 278.0 | 562 | 151.60 | ND ng/ml | 22.6 |
| Benzo(g,h,i)perylene | 21.179 | 276.0 | 1214 | 445.32 | ND ng/ml | 27.8 |
| Coronene | 23.447 | 300.0 | 935 | 261.01 | ND ng/ml | 16.5 |

IS-D8-Naphthalene

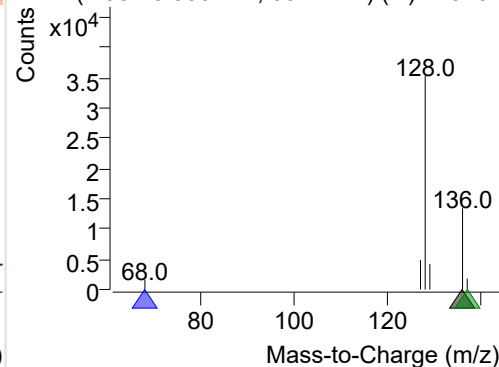
+ Selected Ion (136.0) 220707-PAHs-016.D



136.0, 68.0, 137.0

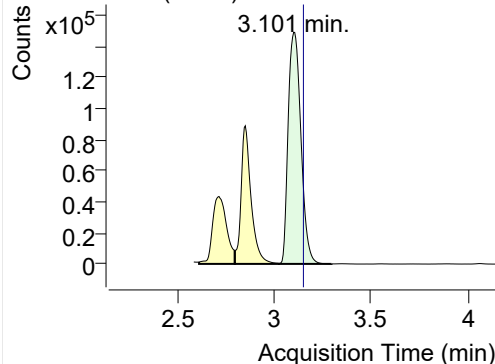


+ SIM (2.982-3.306 min, 60 scans) (**) 220707

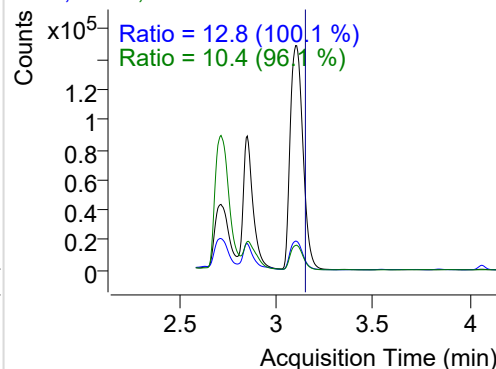


Naphthalene

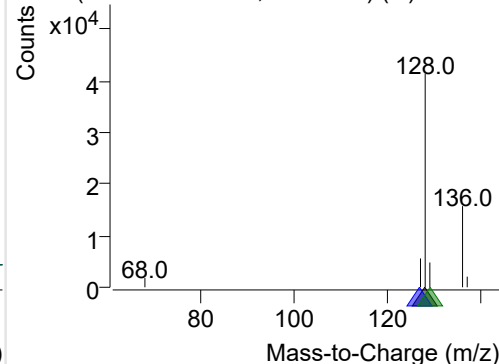
+ Selected Ion (128.0) 220707-PAHs-016.D



128.0, 127.0, 129.0

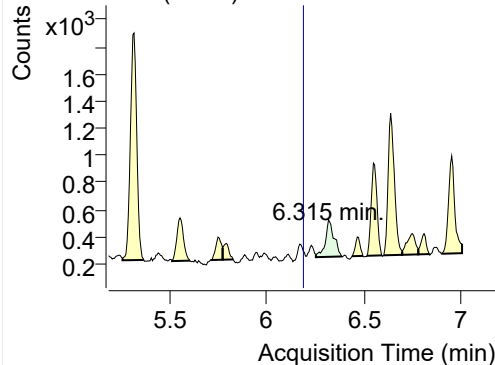


+ SIM (3.026-3.296 min, 51 scans) (**) 220707

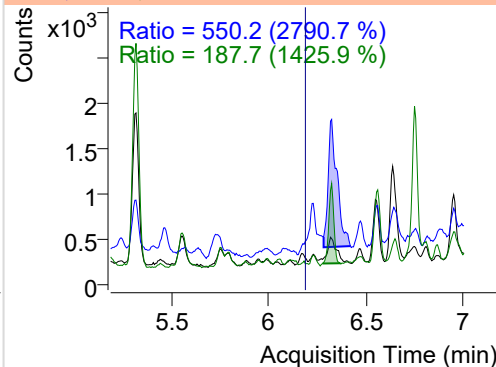


Acenaphthylene

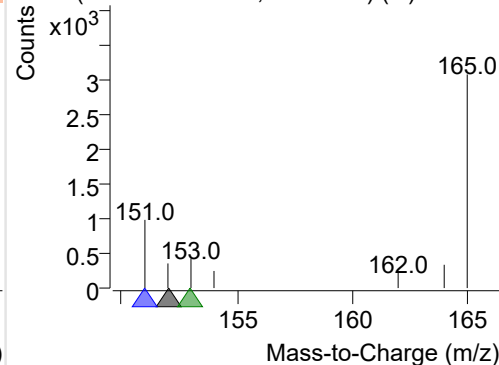
+ Selected Ion (152.0) 220707-PAHs-016.D



152.0, 151.0, 153.0

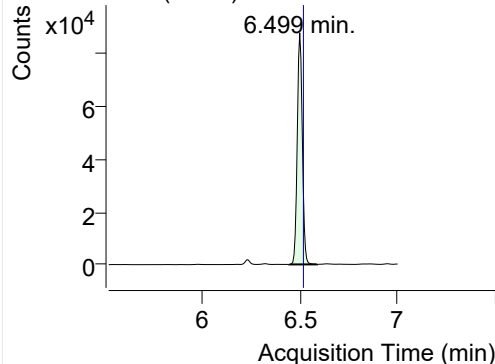


+ SIM (6.250-6.384 min, 23 scans) (**) 220707

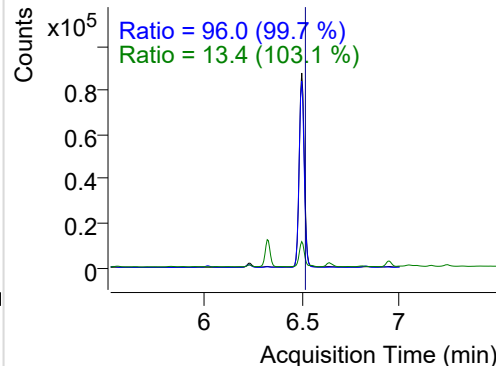


IS-D10-Acenaphthene

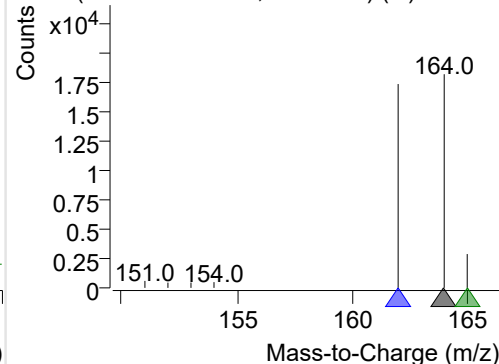
+ Selected Ion (164.0) 220707-PAHs-016.D



164.0, 162.0, 165.0

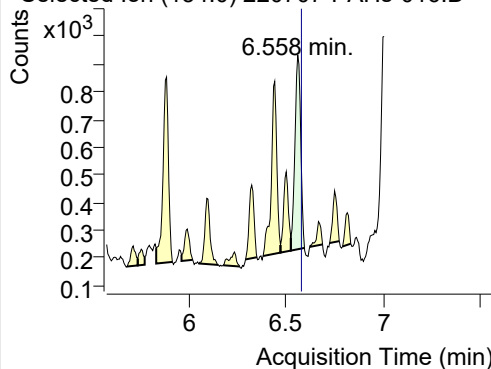


+ SIM (6.445-6.587 min, 25 scans) (**) 220707

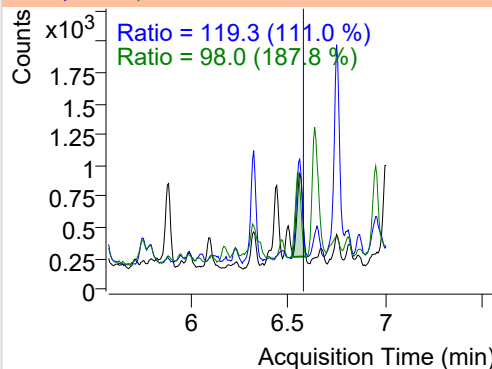


Acenaphthene

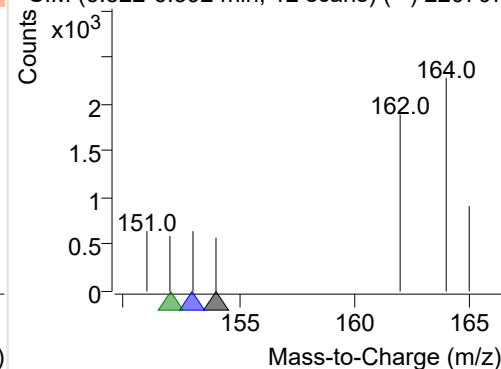
+ Selected Ion (154.0) 220707-PAHs-016.D



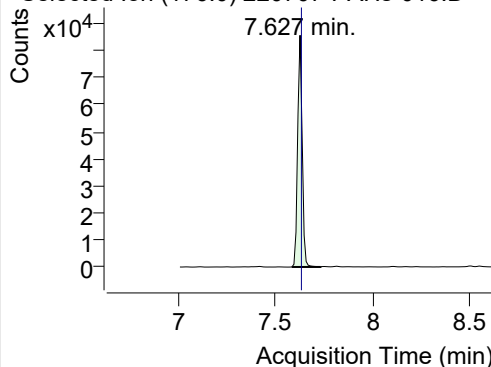
154.0, 153.0, 152.0



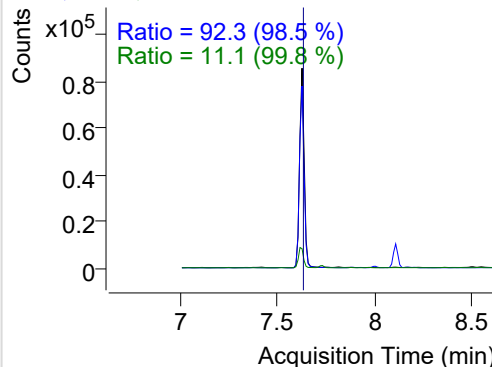
+ SIM (6.522-6.592 min, 12 scans) (**) 220707

**LSS-D10-Fluorene**

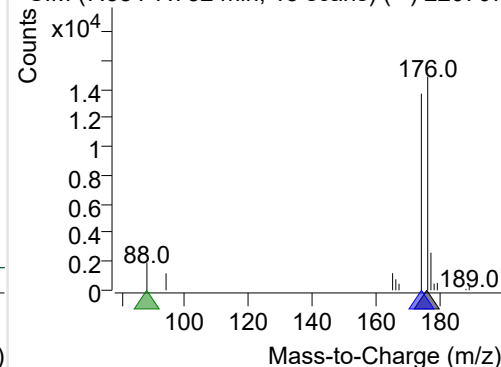
+ Selected Ion (176.0) 220707-PAHs-016.D



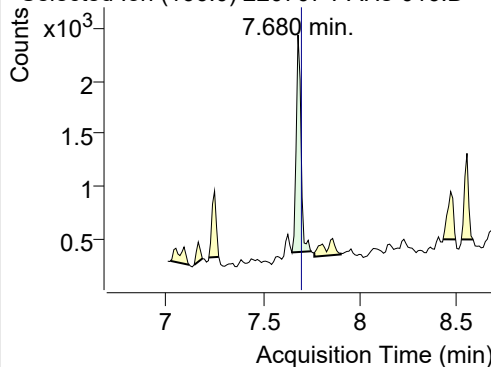
176.0, 174.0, 88.0



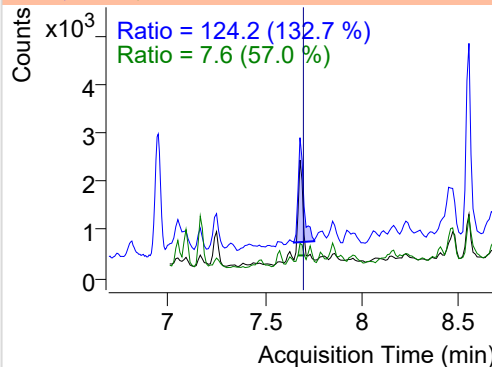
+ SIM (7.584-7.732 min, 15 scans) (**) 220707

**Fluorene**

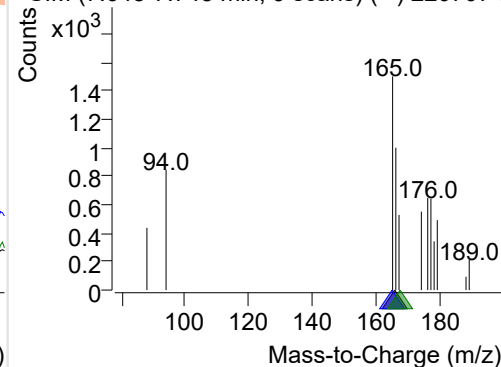
+ Selected Ion (166.0) 220707-PAHs-016.D



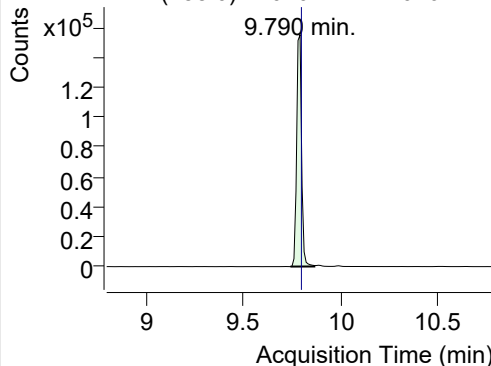
166.0, 165.0, 167.0



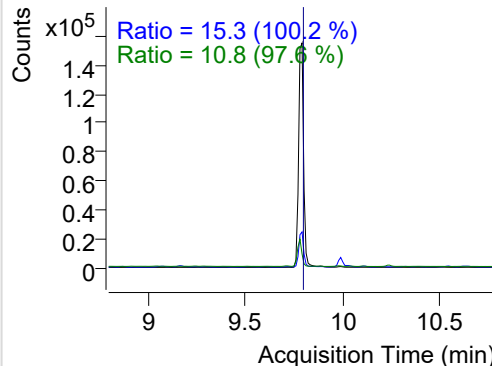
+ SIM (7.648-7.748 min, 9 scans) (**) 220707-I

**IS-D10-Phenanthrene**

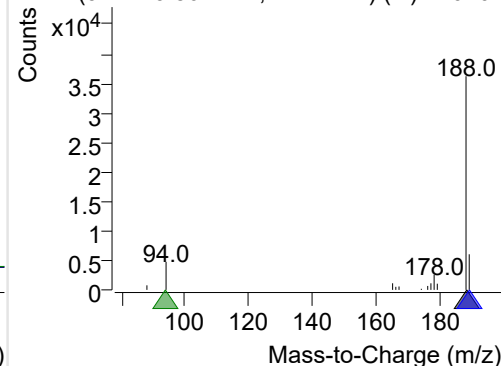
+ Selected Ion (188.0) 220707-PAHs-016.D



188.0, 189.0, 94.0

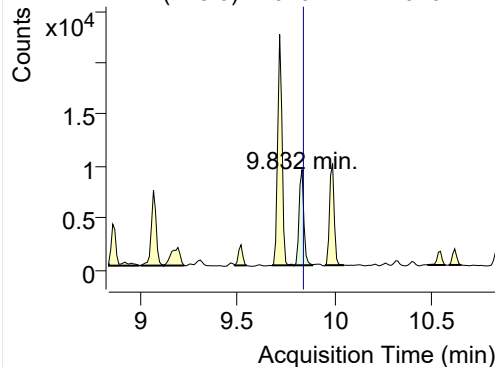


+ SIM (9.741-9.864 min, 12 scans) (**) 220707

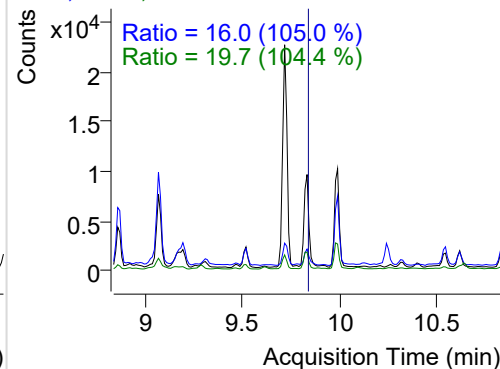


Phenanthrene

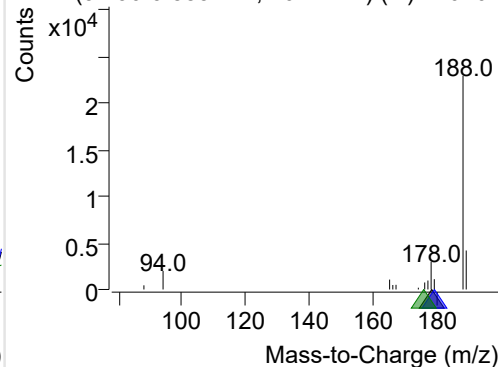
+ Selected Ion (178.0) 220707-PAHs-016.D



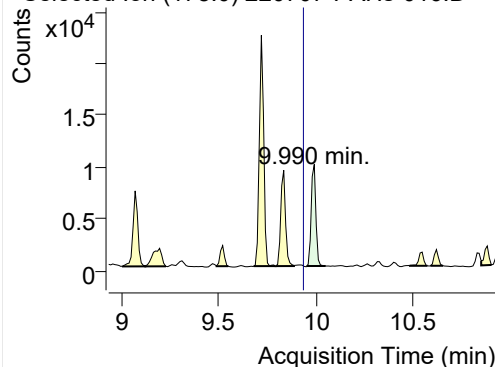
178.0, 179.0, 176.0



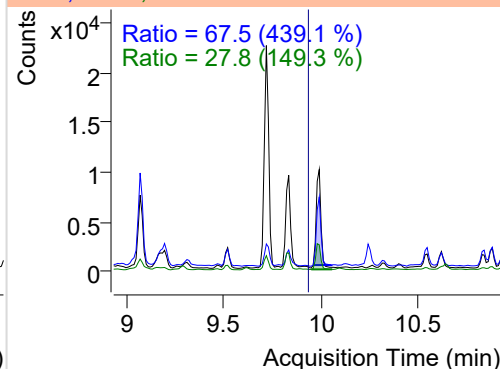
+ SIM (9.790-9.885 min, 10 scans) (**) 220707

**Anthracene**

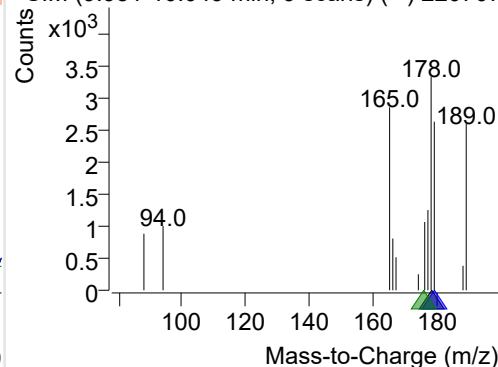
+ Selected Ion (178.0) 220707-PAHs-016.D



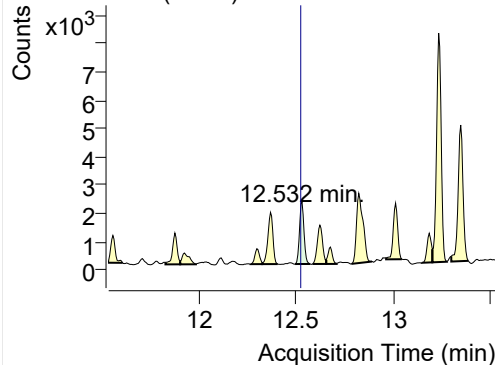
178.0, 179.0, 176.0



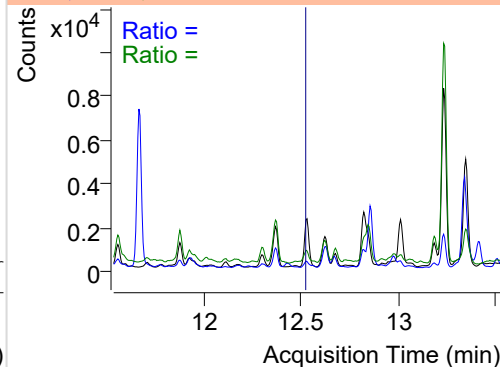
+ SIM (9.951-10.049 min, 9 scans) (**) 220707

**Fluoranthene**

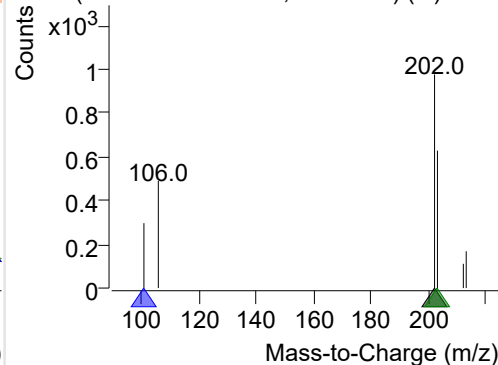
+ Selected Ion (202.0) 220707-PAHs-016.D



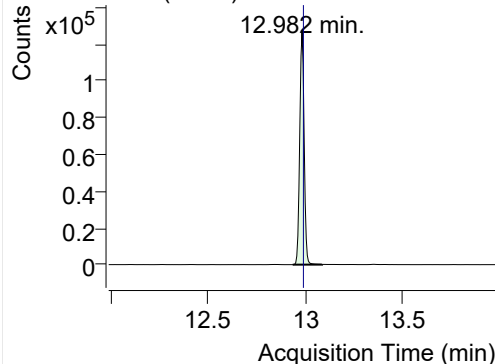
202.0, 101.0, 203.0



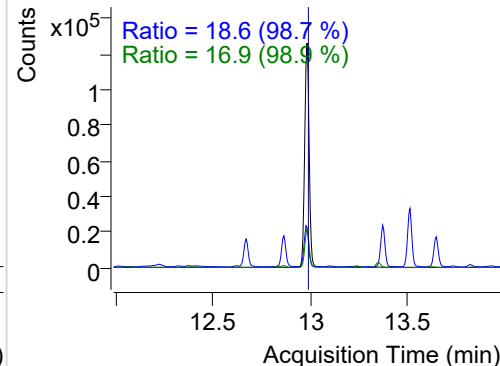
+ SIM (12.496-12.574 min, 14 scans) (**) 2207

**LSS-D10-Pyrene**

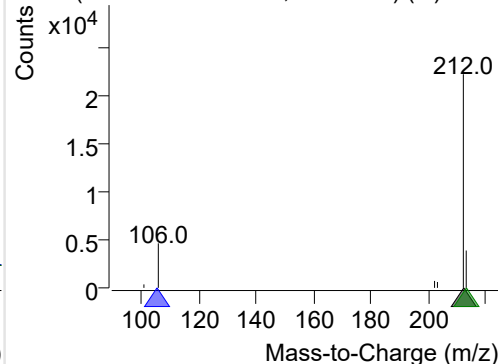
+ Selected Ion (212.0) 220707-PAHs-016.D



212.0, 106.0, 213.0



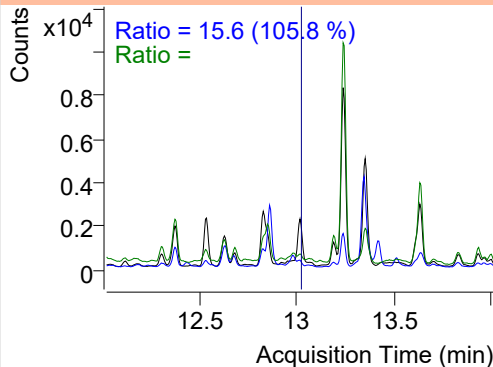
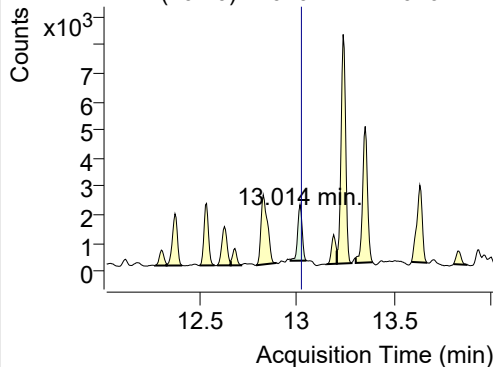
+ SIM (12.933-13.085 min, 28 scans) (**) 2207



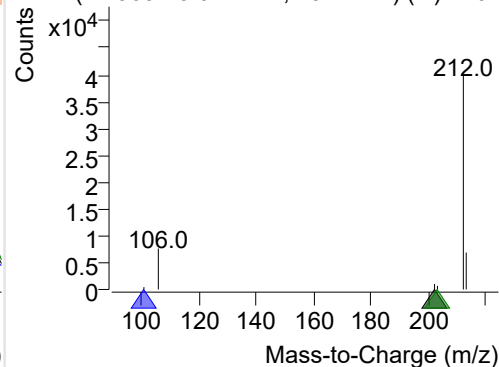
Pyrene

+ Selected Ion (202.0) 220707-PAHs-016.D

202.0, 101.0, 203.0

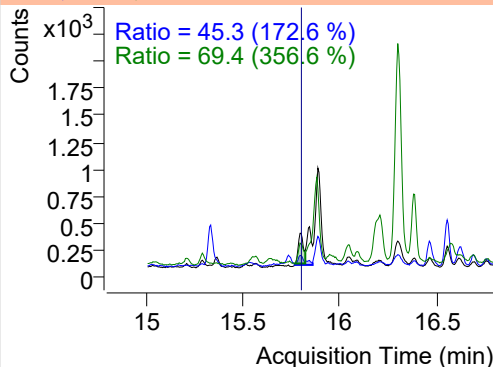
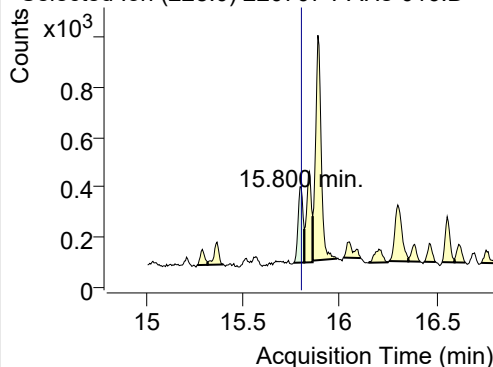


+ SIM (12.965-13.047 min, 15 scans) (**) 2207

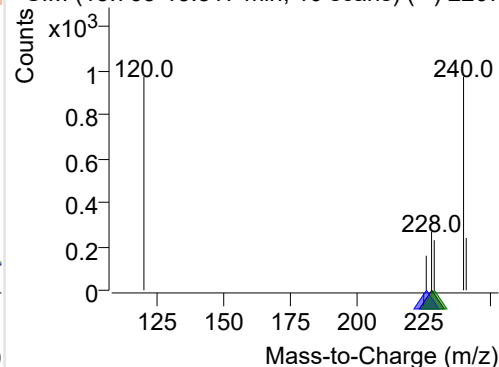
**Benz(a)anthracene**

+ Selected Ion (228.0) 220707-PAHs-016.D

228.0, 226.0, 229.0

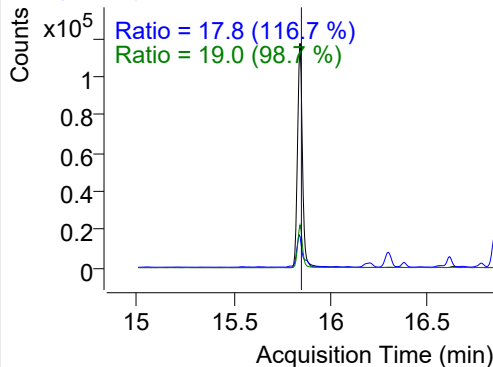
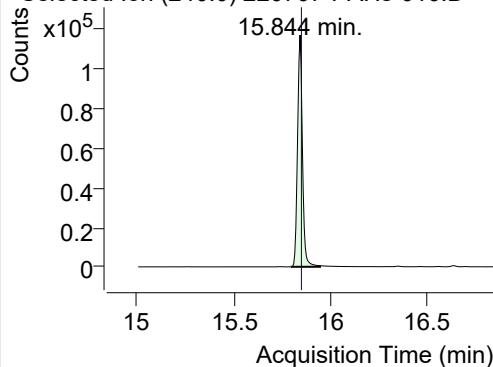


+ SIM (15.763-15.817 min, 10 scans) (**) 2207

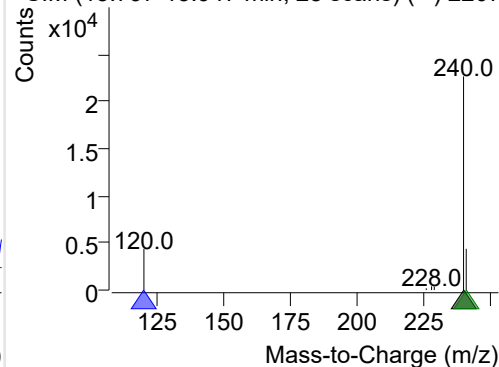
**IS-D12-Chrysene**

+ Selected Ion (240.0) 220707-PAHs-016.D

240.0, 120.0, 241.0

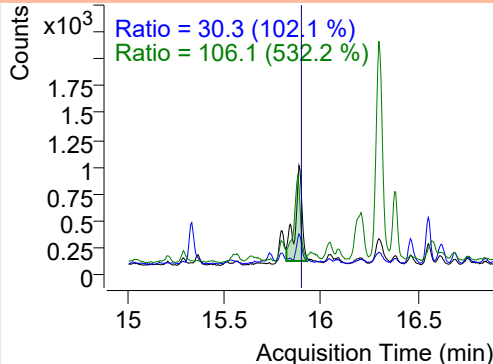
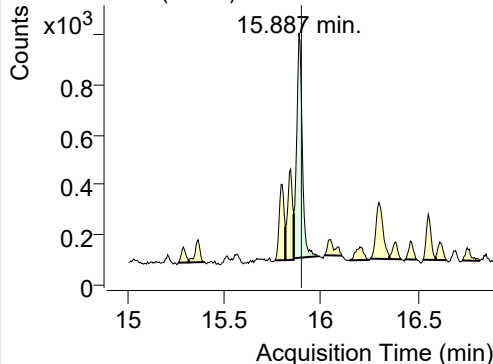


+ SIM (15.797-15.947 min, 28 scans) (**) 2207

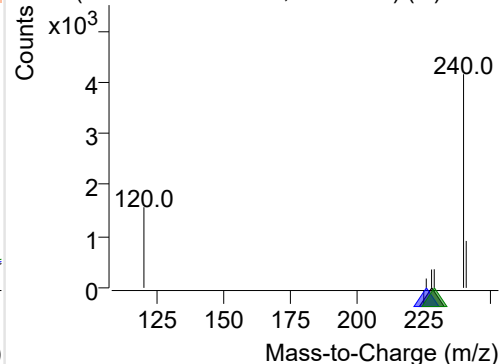
**Chrysene**

+ Selected Ion (228.0) 220707-PAHs-016.D

228.0, 226.0, 229.0



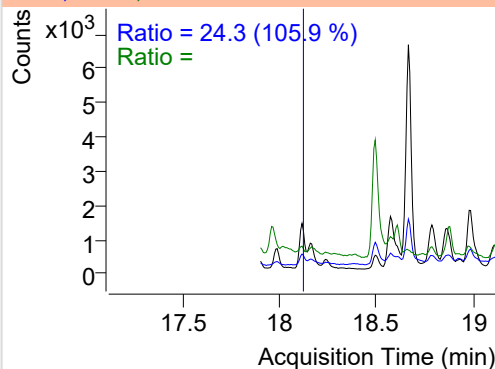
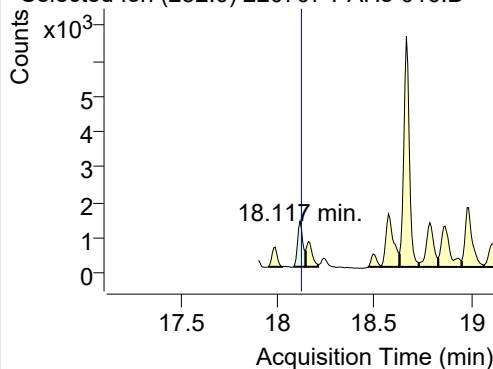
+ SIM (15.860-15.983 min, 23 scans) (**) 2207



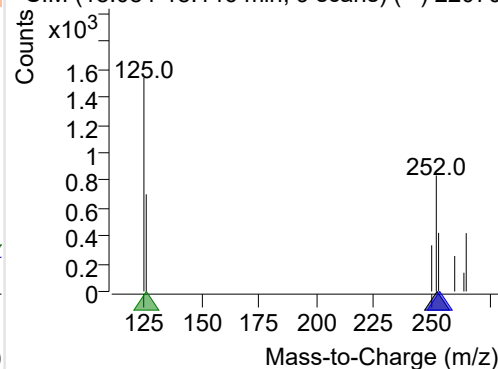
Benzo(b)fluoranthene

+ Selected Ion (252.0) 220707-PAHs-016.D

252.0, 253.0, 126.0

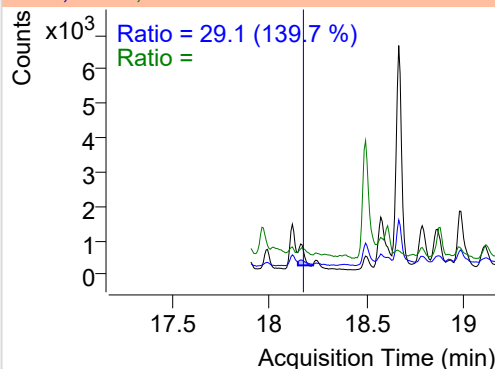
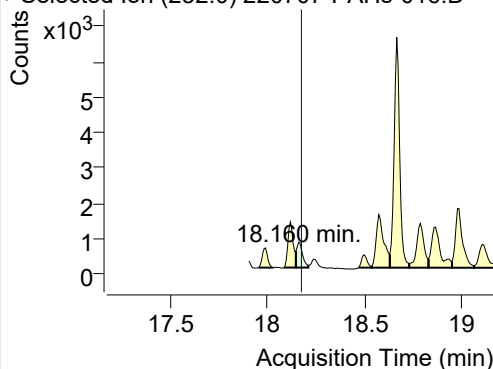


+ SIM (18.084-18.146 min, 9 scans) (**) 22070

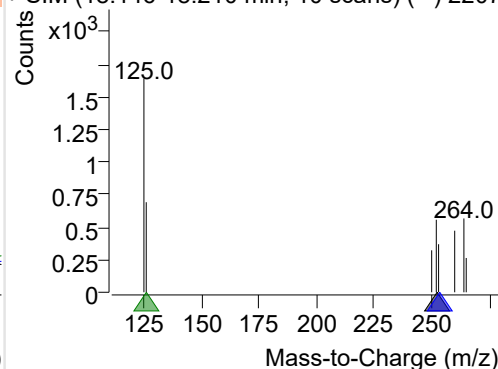
**Benzo(k)fluoranthene**

+ Selected Ion (252.0) 220707-PAHs-016.D

252.0, 253.0, 126.0

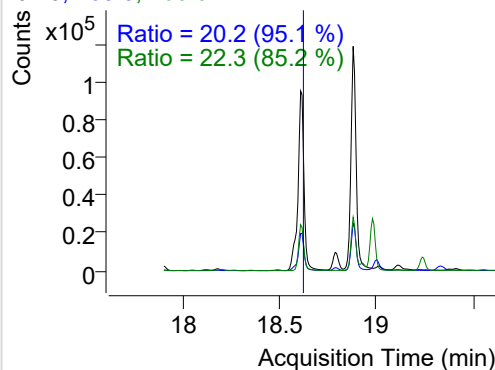
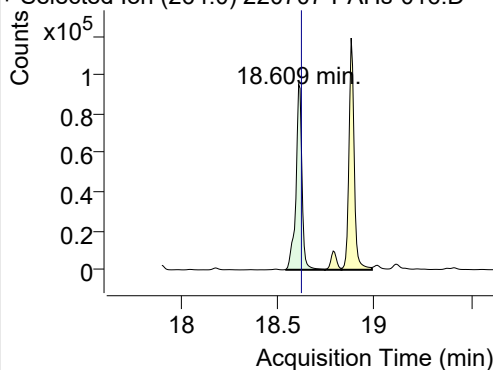


+ SIM (18.146-18.210 min, 10 scans) (**) 2207

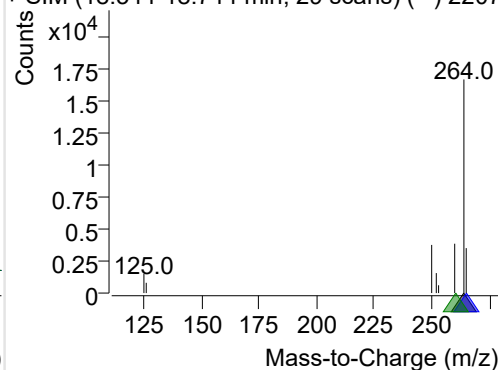
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 220707-PAHs-016.D

264.0, 265.0, 260.0

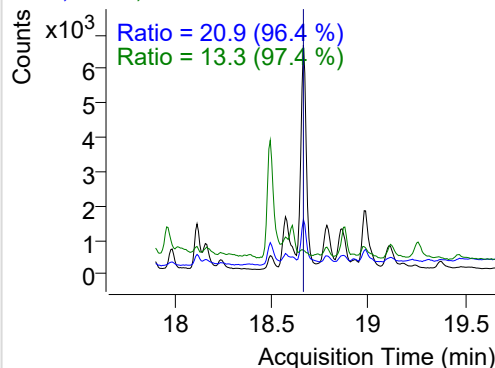
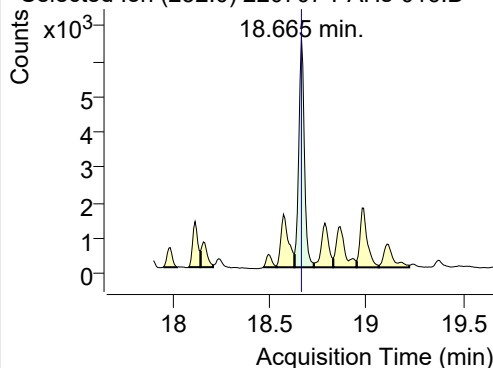


+ SIM (18.544-18.744 min, 29 scans) (**) 2207

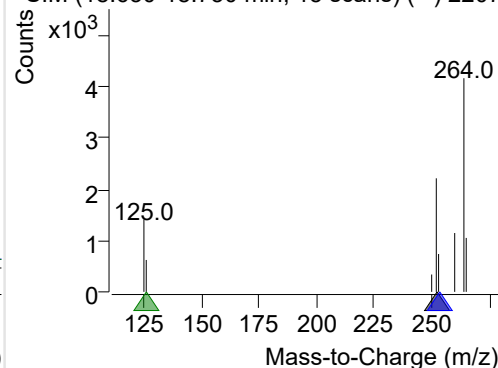
**Benzo(e)pyrene**

+ Selected Ion (252.0) 220707-PAHs-016.D

252.0, 253.0, 126.0



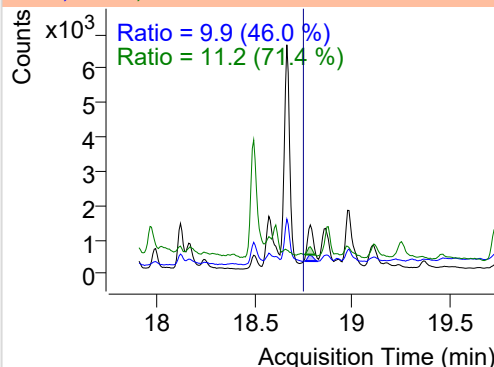
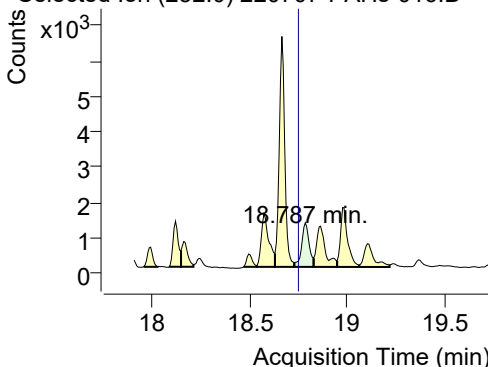
+ SIM (18.630-18.730 min, 15 scans) (**) 2207



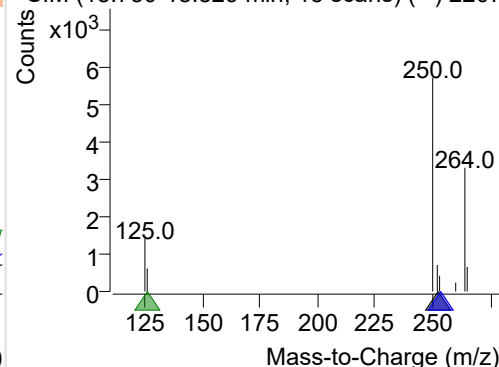
Benzo(a)pyrene

+ Selected Ion (252.0) 220707-PAHs-016.D

252.0, 253.0, 126.0

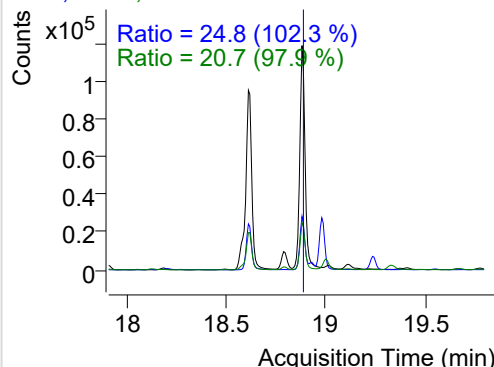
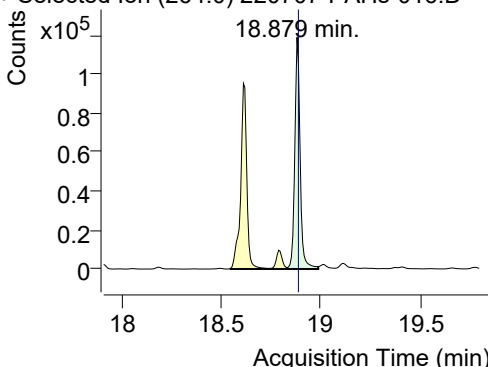


+ SIM (18.730-18.829 min, 15 scans) (**) 2207

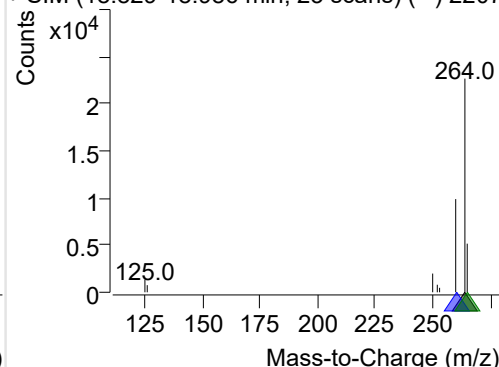
**IS-D12-Perylene**

+ Selected Ion (264.0) 220707-PAHs-016.D

264.0, 260.0, 265.0

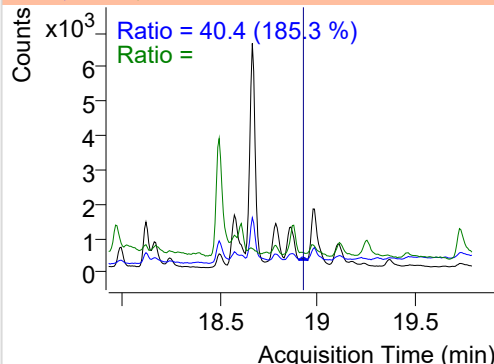
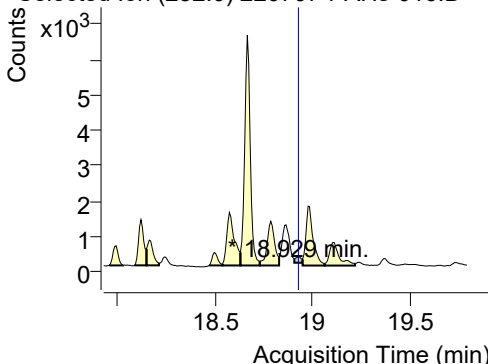


+ SIM (18.829-18.986 min, 23 scans) (**) 2207

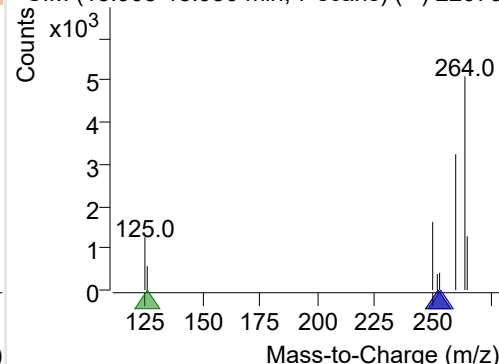
**Perylene**

+ Selected Ion (252.0) 220707-PAHs-016.D

252.0, 253.0, 126.0

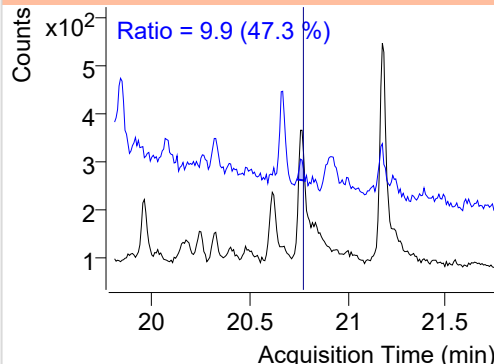
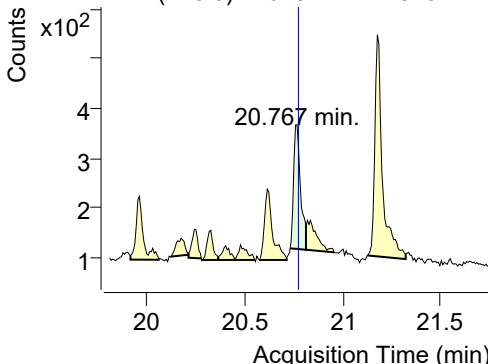


+ SIM (18.908-18.950 min, 7 scans) (**) 22070

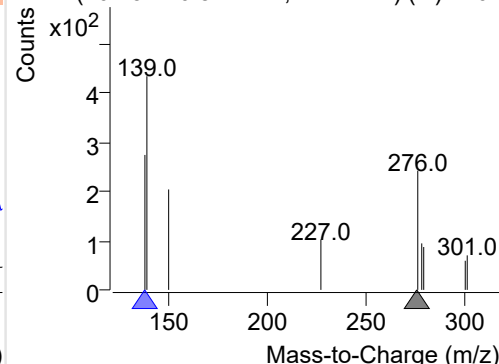
**Indeno(1,2,3-c,d)pyrene**

+ Selected Ion (276.0) 220707-PAHs-016.D

276.0, 138.0



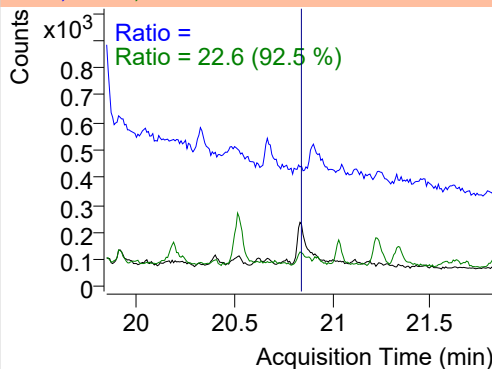
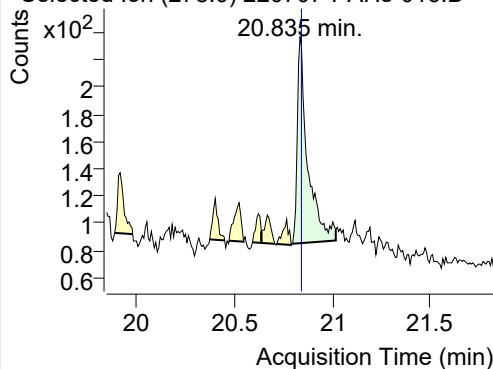
+ SIM (20.731-20.812 min, 11 scans) (**) 2207



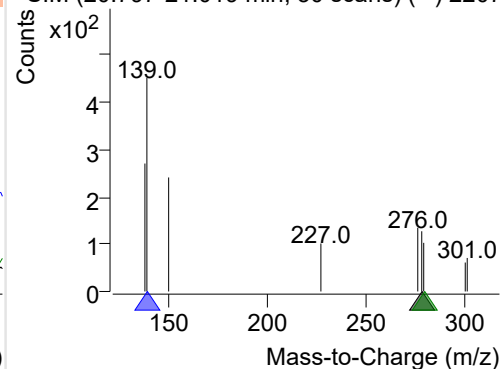
Dibenz(a,h)anthracene

+ Selected Ion (278.0) 220707-PAHs-016.D

278.0, 139.0, 279.0

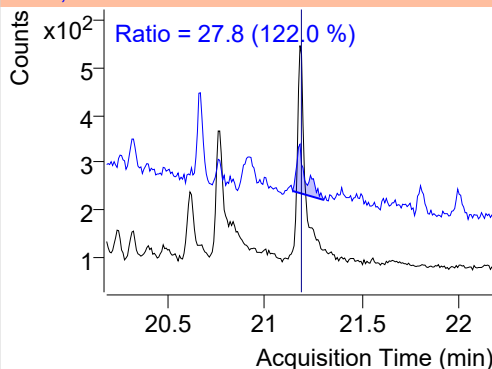
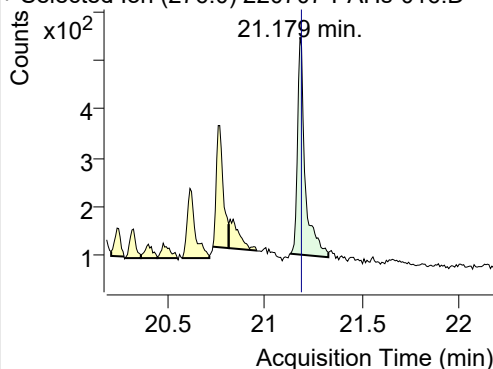


+ SIM (20.797-21.019 min, 30 scans) (**) 2207

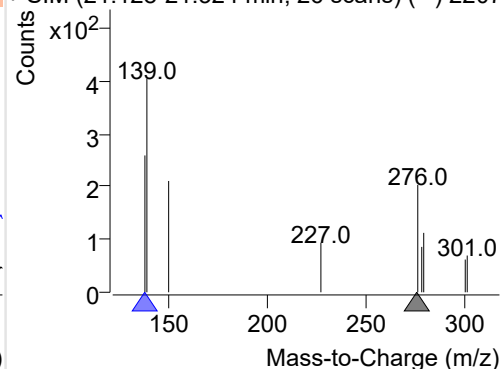
**Benzo(g,h,i)perylene**

+ Selected Ion (276.0) 220707-PAHs-016.D

276.0, 138.0

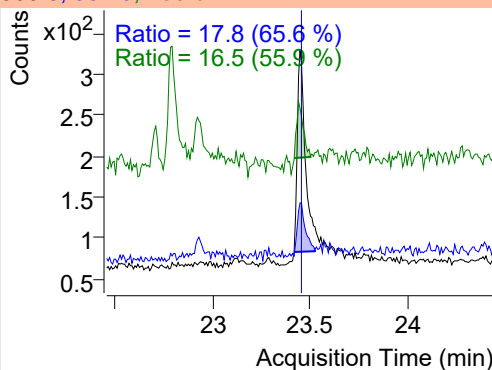
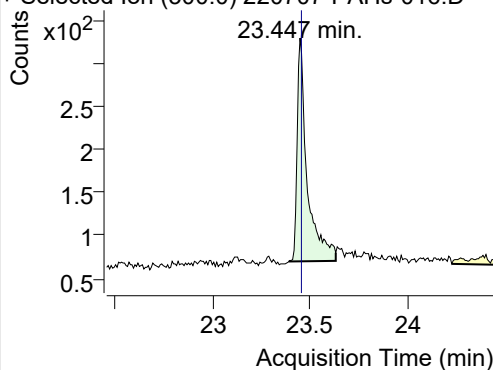


+ SIM (21.128-21.324 min, 26 scans) (**) 2207

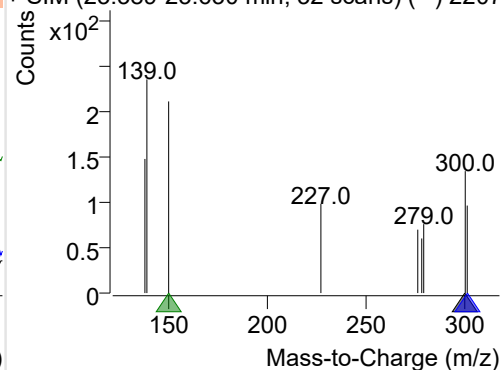
**Coronene**

+ Selected Ion (300.0) 220707-PAHs-016.D

300.0, 301.0, 150.0



+ SIM (23.389-23.630 min, 32 scans) (**) 2207



Quantitative Analysis Sample Based Report

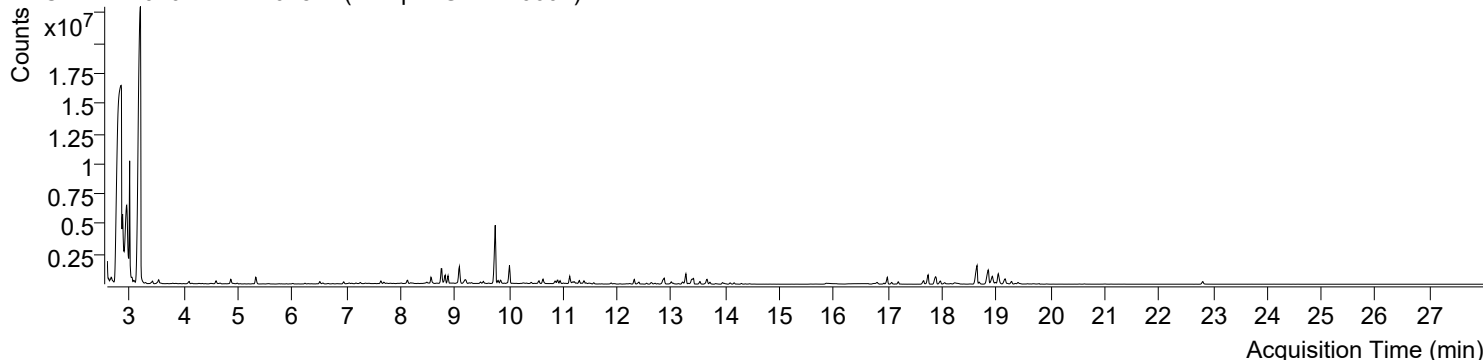


Trusted Answers

| | | | |
|---------------------------|--|-----------------------|------------------------|
| Batch Data Path File Name | D:\MassHunter\GCMS\1\data\PAHs\220707-PAHs-Sample\QuantResults\220707-PAHs-Quant.batch.bin | | |
| Analysis Time Stamp | 2022-07-09 오전 11:12:52 | Analyst Name | DESKTOP-86B7UPG\5975MS |
| Report Generation Time | 2022-07-09 오전 11:13:20 | Report Generator Name | DESKTOP-86B7UPG\5975MS |
| Calibration Last Update | 2022-07-09 오전 11:04:15 | Batch State | Processed |
| Analyze Quant Version | 10.2 | Report Quant Version | 10.2 |
| Acq. Date-Time | 2022-07-07 오후 10:08:32 | Data File | 220707-PAHs-018.D |
| Type | Sample | Name | Sample-Gas-220604 |
| Dil. | 1 | Acq. Method File | PAHs 19mix-Method |

Sample Chromatogram

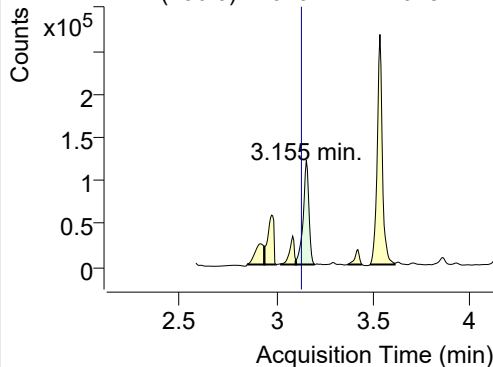
+ TIC SIM 220707-PAHs-018.D (Sample-Gas-220604)



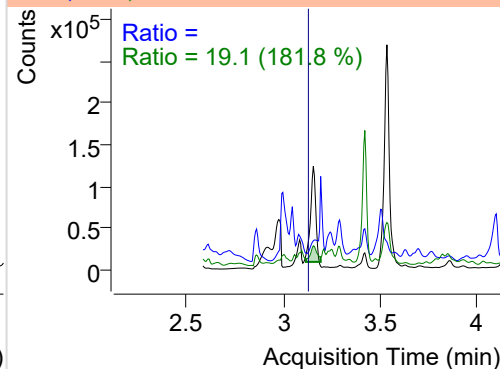
| Name | RT | Transition | Resp. | Height | Final Conc. Units | Ratio |
|-------------------------|--------|------------|----------|------------|-------------------|-------|
| IS-D8-Naphthalene | 3.155 | 136.0 | 246080 | 121018.87 | ND ng/ml | 19.1 |
| Naphthalene | 3.176 | 128.0 | 36302230 | 8364690.67 | ND ng/ml | 28.4 |
| Acenaphthylene | 6.185 | 152.0 | 4053 | 2057.85 | ND ng/ml | 159.7 |
| IS-D10-Acenaphthene | 6.510 | 164.0 | 156803 | 92018.85 | ND ng/ml | 102.4 |
| Acenaphthene | 6.569 | 154.0 | 36358 | 19888.15 | ND ng/ml | 113.8 |
| LSS-D10-Fluorene | 7.638 | 176.0 | 135698 | 90877.18 | ND ng/ml | 97.1 |
| Fluorene | 7.690 | 166.0 | 86600 | 49982.62 | ND ng/ml | 97.3 |
| IS-D10-Phenanthrene | 9.801 | 188.0 | 275798 | 170379.53 | ND ng/ml | 15.5 |
| Phenanthrene | 9.843 | 178.0 | 290259 | 160885.85 | ND ng/ml | 18.6 |
| Anthracene | 9.916 | 178.0 | 5868 | 4165.00 | ND ng/ml | 922.3 |
| Fluoranthene | 12.542 | 202.0 | 79431 | 51370.16 | ND ng/ml | 19.0 |
| LSS-D10-Pyrene | 12.998 | 212.0 | 210516 | 125600.13 | ND ng/ml | 23.9 |
| Pyrene | 13.030 | 202.0 | 107519 | 55898.16 | ND ng/ml | 14.4 |
| Benz(a)anthracene | 15.903 | 228.0 | 12450 | 1376.37 | ND ng/ml | 6.4 |
| IS-D12-Chrysene | 15.860 | 240.0 | 211896 | 48226.15 | ND ng/ml | 20.3 |
| Chrysene | 15.903 | 228.0 | 12450 | 1376.37 | ND ng/ml | 6.4 |
| Benzo(b)fluoranthene | 18.124 | 252.0 | 1134 | 632.30 | ND ng/ml | 118.7 |
| Benzo(k)fluoranthene | 18.288 | 252.0 | 6893 | 3452.85 | ND ng/ml | |
| SS-D12-Benzo(e)pyrene | 18.630 | 264.0 | 409655 | 379533.00 | ND ng/ml | 1.6 |
| Benzo(e)pyrene | 18.672 | 252.0 | 6704 | 4209.48 | ND ng/ml | 14.8 |
| Benzo(a)pyrene | 18.644 | 252.0 | 67663 | 23857.20 | ND ng/ml | 9.3 |
| IS-D12-Perylene | 18.929 | 264.0 | 330131 | 274692.94 | ND ng/ml | 21.2 |
| Perylene | 18.922 | 252.0 | 56723 | 26352.51 | ND ng/ml | 12.4 |
| Indeno(1,2,3-c,d)pyrene | 20.721 | 276.0 | 371 | 132.16 | ND ng/ml | |
| Dibenz(a,h)anthracene | 20.637 | 278.0 | 1363 | 367.81 | ND ng/ml | 113.3 |
| Benzo(g,h,i)perylene | 21.156 | 276.0 | 1979 | 530.02 | ND ng/ml | 8.7 |
| Coronene | 23.454 | 300.0 | 432 | 160.10 | ND ng/ml | |

IS-D8-Naphthalene

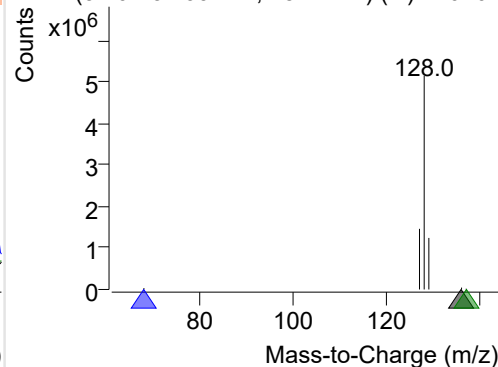
+ Selected Ion (136.0) 220707-PAHs-018.D



136.0, 68.0, 137.0

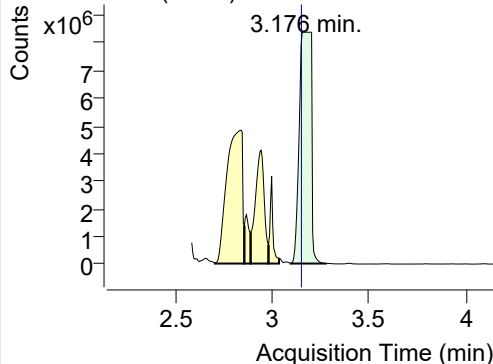


+ SIM (3.101-3.199 min, 18 scans) (**) 220707

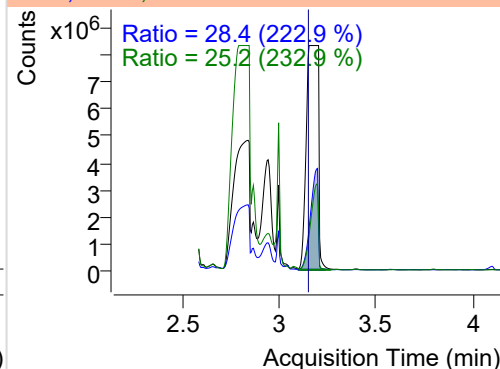


Naphthalene

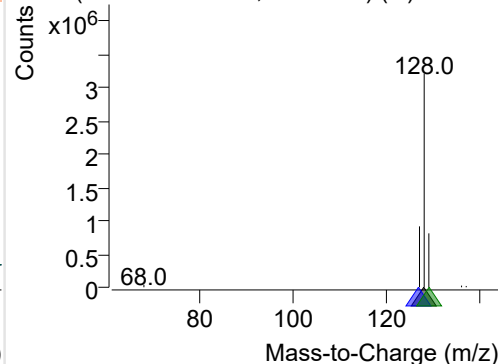
+ Selected Ion (128.0) 220707-PAHs-018.D



128.0, 127.0, 129.0

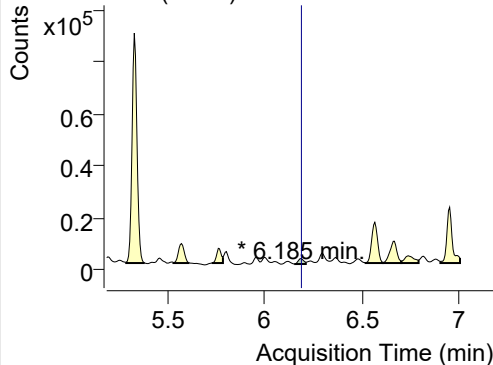


+ SIM (3.096-3.282 min, 35 scans) (**) 220707

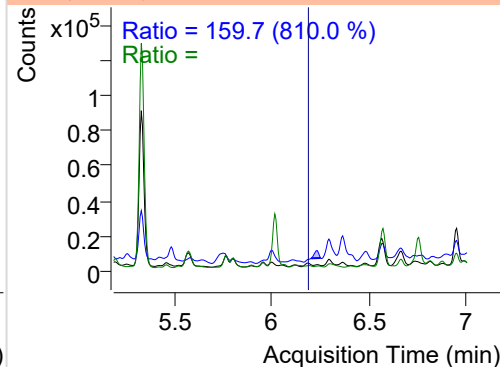


Acenaphthylene

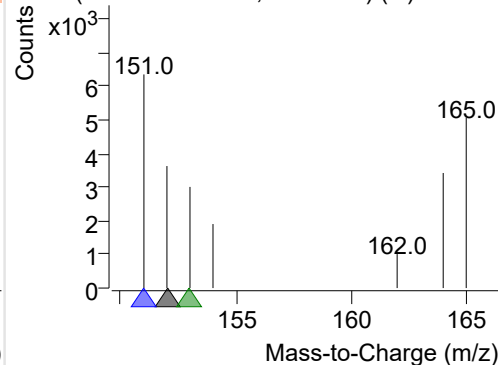
+ Selected Ion (152.0) 220707-PAHs-018.D



152.0, 151.0, 153.0

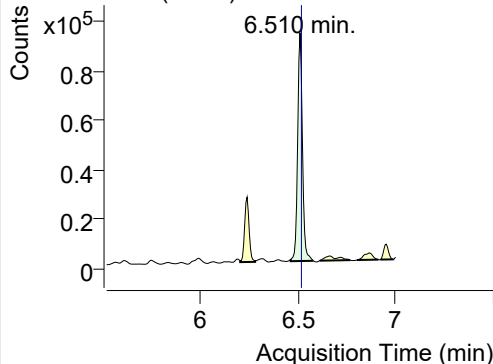


+ SIM (6.149-6.208 min, 11 scans) (**) 220707

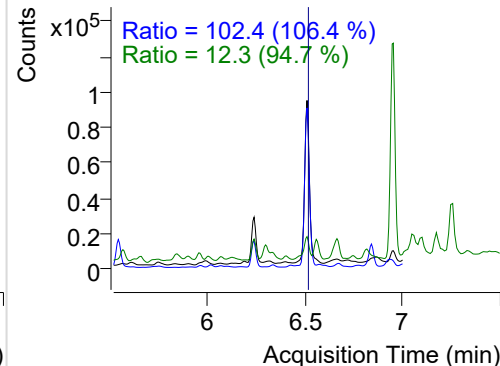


IS-D10-Acenaphthene

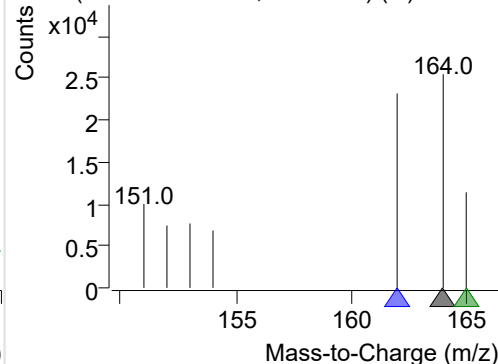
+ Selected Ion (164.0) 220707-PAHs-018.D



164.0, 162.0, 165.0

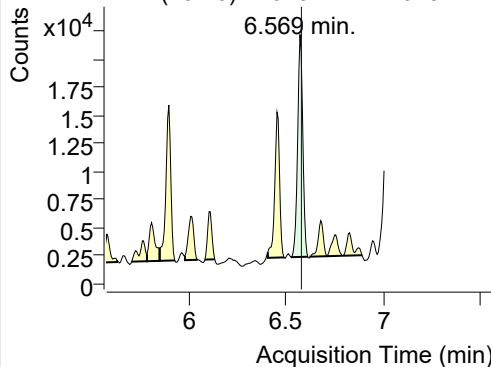


+ SIM (6.463-6.579 min, 20 scans) (**) 220707

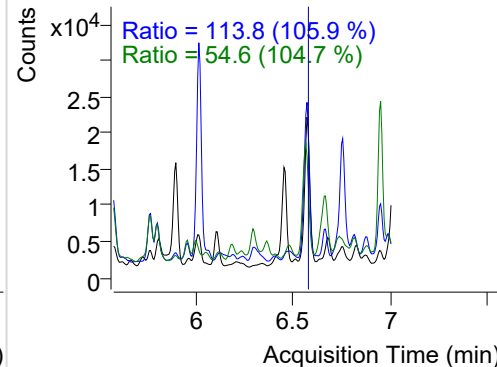


Acenaphthene

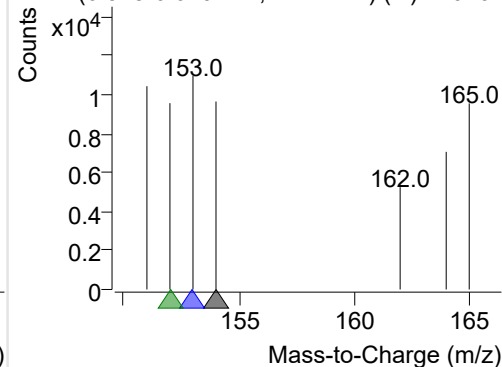
+ Selected Ion (154.0) 220707-PAHs-018.D



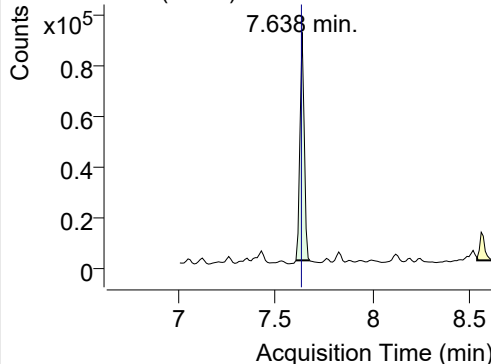
154.0, 153.0, 152.0



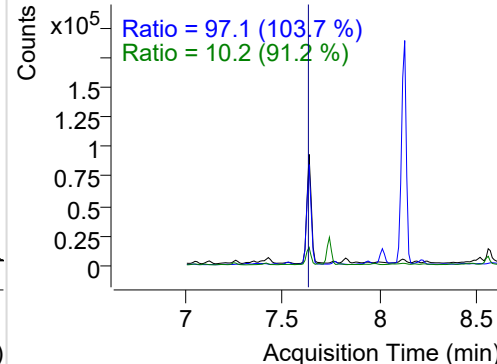
+ SIM (6.528-6.610 min, 14 scans) (**) 220707

**LSS-D10-Fluorene**

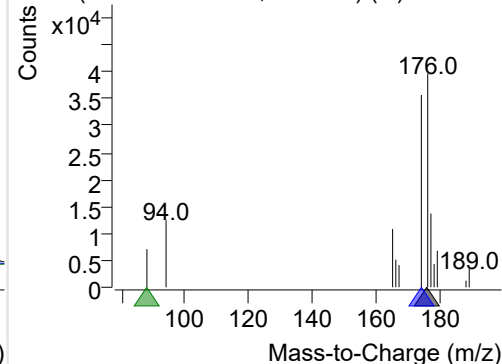
+ Selected Ion (176.0) 220707-PAHs-018.D



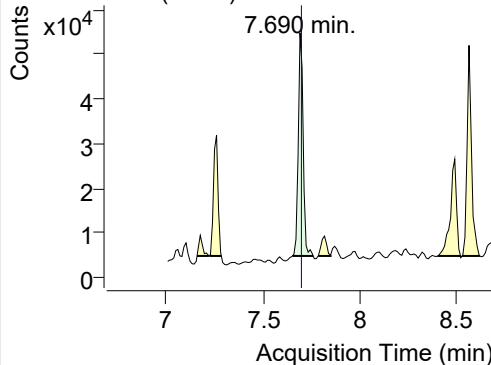
176.0, 174.0, 88.0



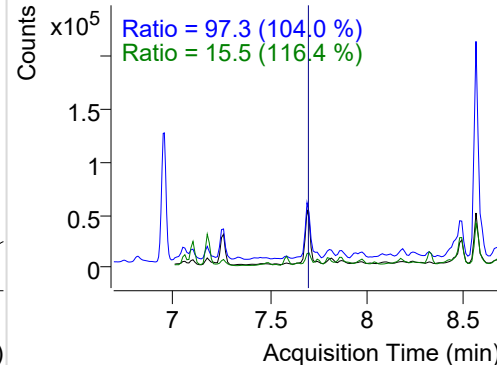
+ SIM (7.606-7.677 min, 6 scans) (**) 220707-I

**Fluorene**

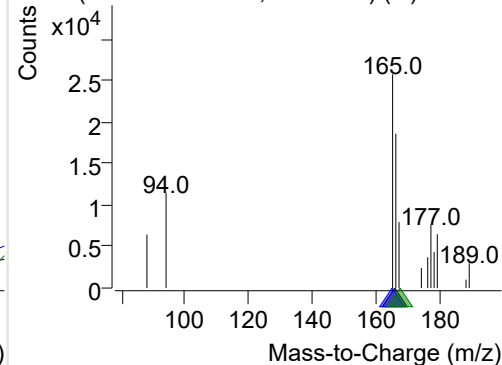
+ Selected Ion (166.0) 220707-PAHs-018.D



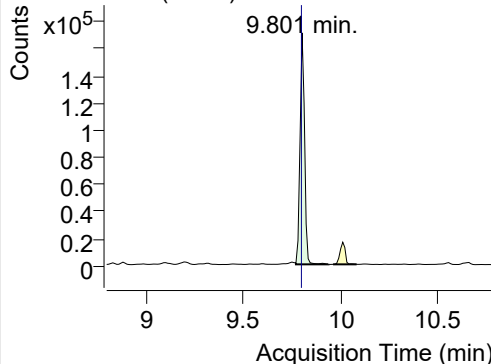
166.0, 165.0, 167.0



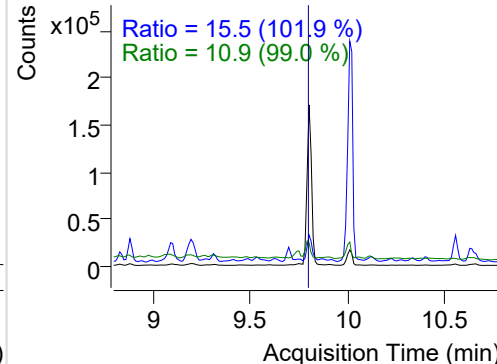
+ SIM (7.651-7.758 min, 10 scans) (**) 220707

**IS-D10-Phenanthrene**

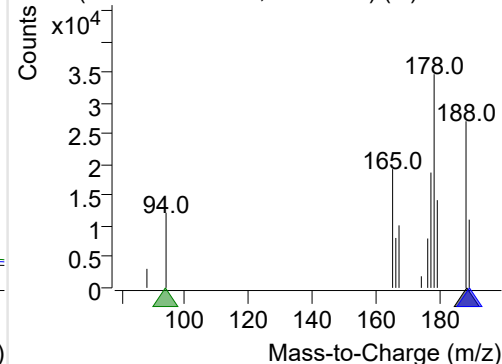
+ Selected Ion (188.0) 220707-PAHs-018.D



188.0, 189.0, 94.0

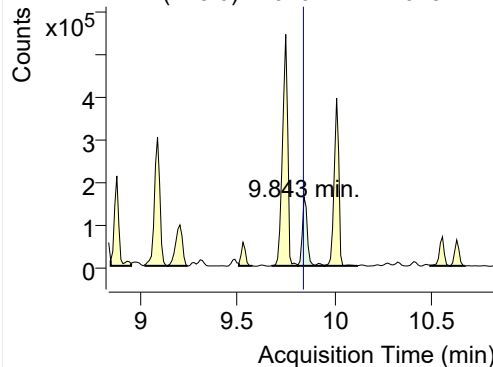


+ SIM (9.769-9.937 min, 17 scans) (**) 220707

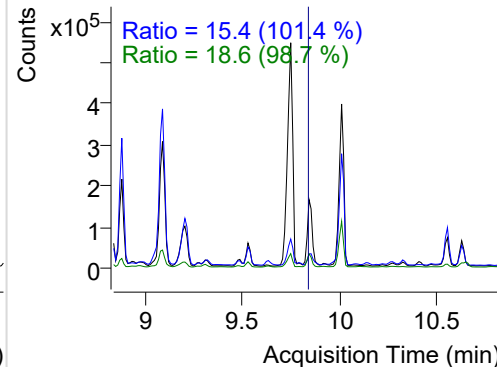


Phenanthrene

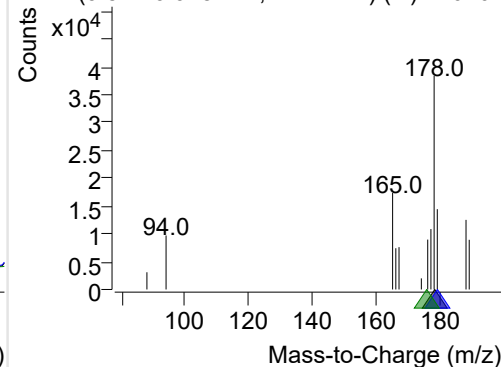
+ Selected Ion (178.0) 220707-PAHs-018.D



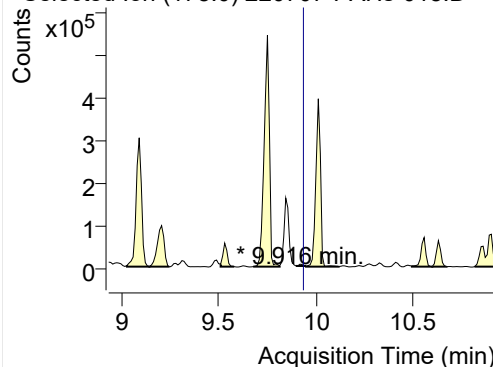
178.0, 179.0, 176.0



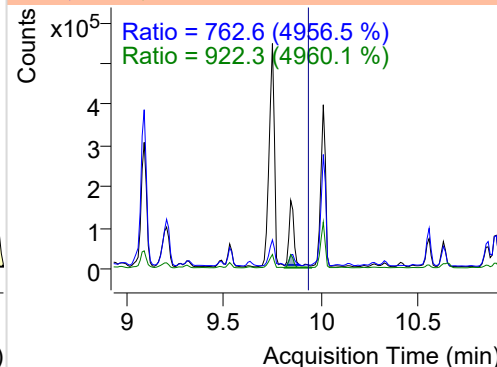
+ SIM (9.811-9.948 min, 14 scans) (**) 220707

**Anthracene**

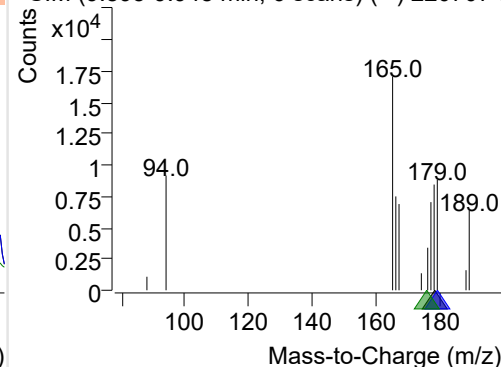
+ Selected Ion (178.0) 220707-PAHs-018.D



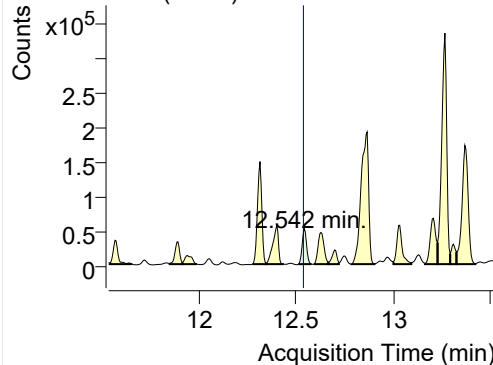
178.0, 179.0, 176.0



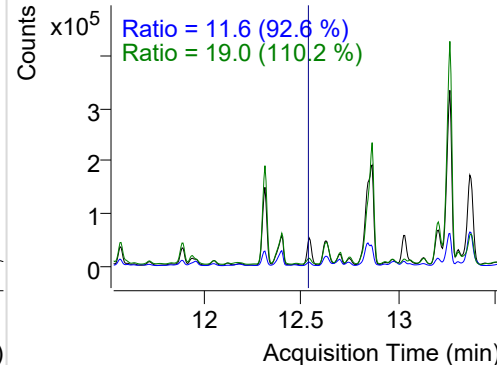
+ SIM (9.895-9.948 min, 6 scans) (**) 220707-I

**Fluoranthene**

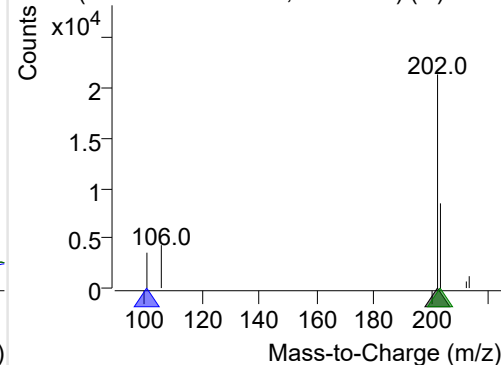
+ Selected Ion (202.0) 220707-PAHs-018.D



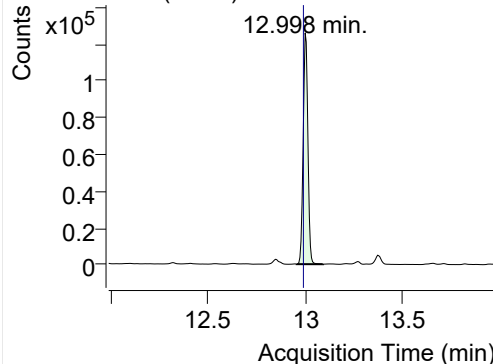
202.0, 101.0, 203.0



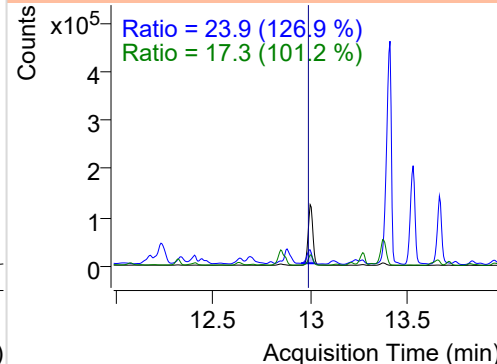
+ SIM (12.513-12.581 min, 13 scans) (**) 2207

**LSS-D10-Pyrene**

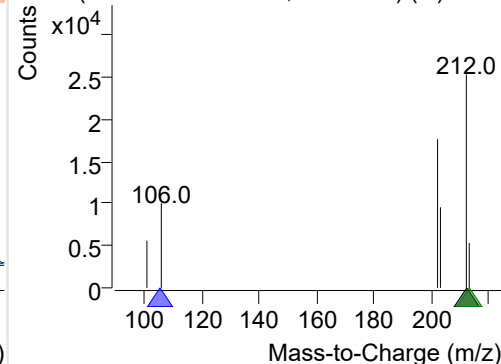
+ Selected Ion (212.0) 220707-PAHs-018.D



212.0, 106.0, 213.0

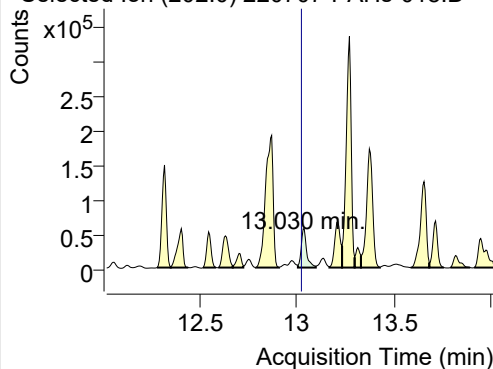


+ SIM (12.954-13.090 min, 26 scans) (**) 2207

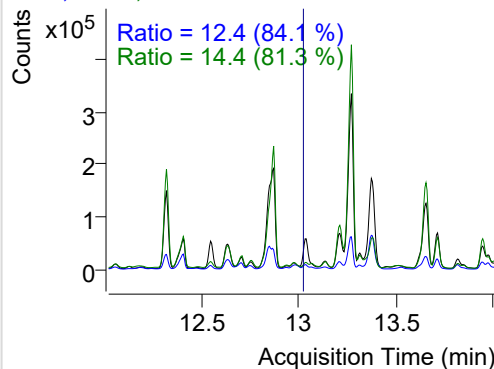


Pyrene

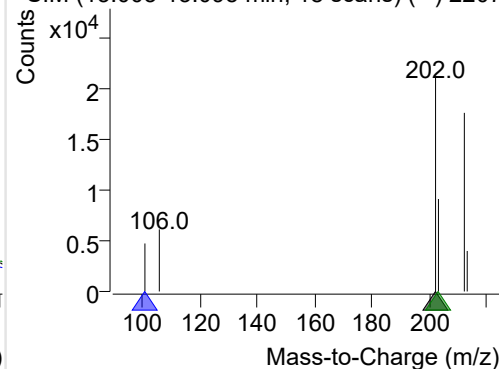
+ Selected Ion (202.0) 220707-PAHs-018.D



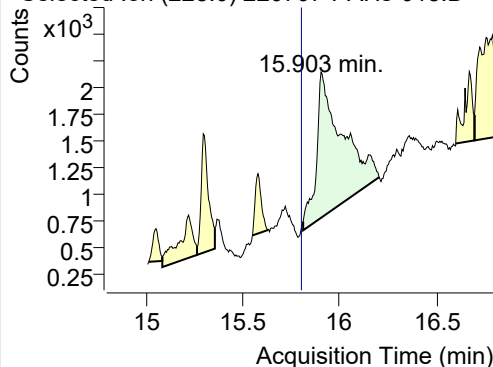
202.0, 101.0, 203.0



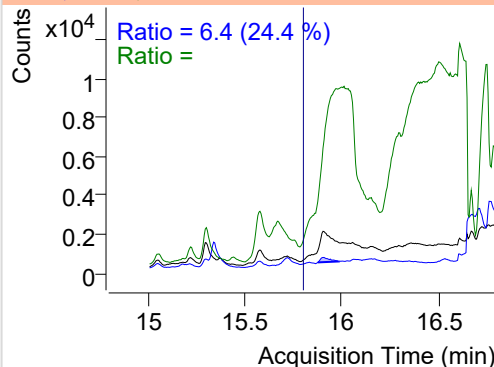
+ SIM (13.003-13.095 min, 18 scans) (**) 2207

**Benz(a)anthracene**

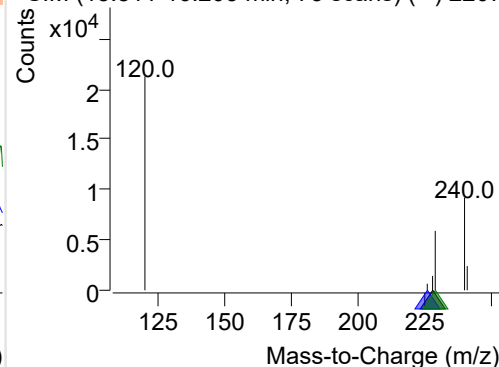
+ Selected Ion (228.0) 220707-PAHs-018.D



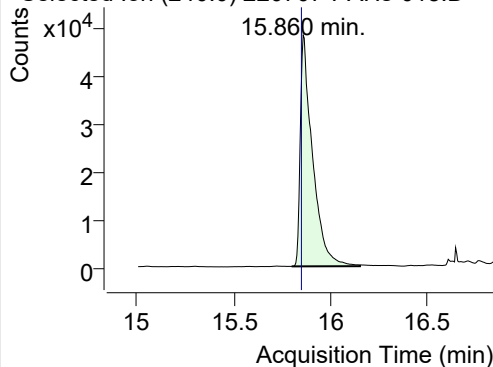
228.0, 226.0, 229.0



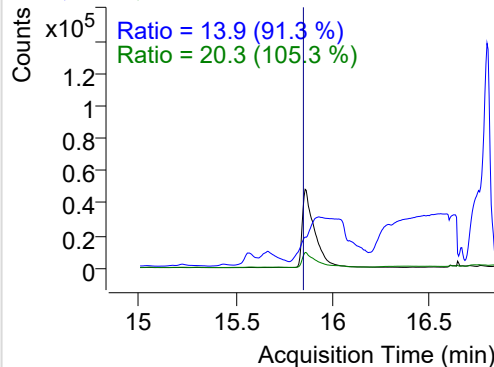
+ SIM (15.811-16.203 min, 73 scans) (**) 2207

**IS-D12-Chrysene**

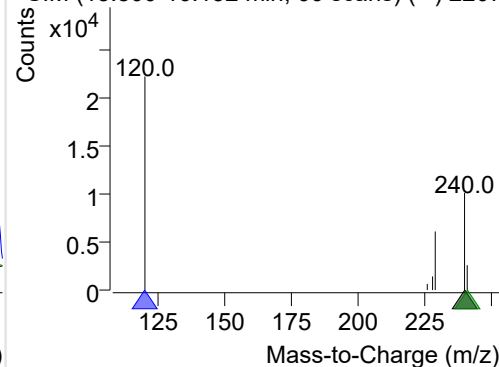
+ Selected Ion (240.0) 220707-PAHs-018.D



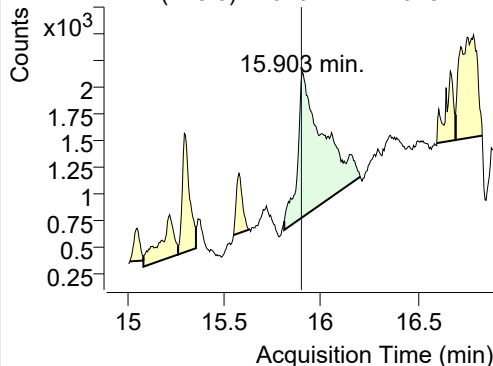
240.0, 120.0, 241.0



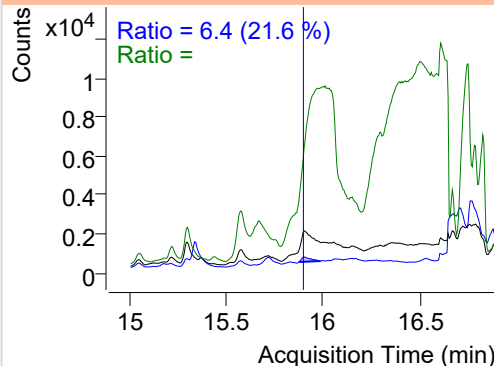
+ SIM (15.800-16.152 min, 66 scans) (**) 2207

**Chrysene**

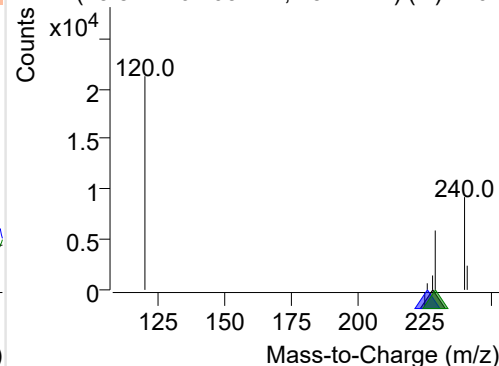
+ Selected Ion (228.0) 220707-PAHs-018.D



228.0, 226.0, 229.0



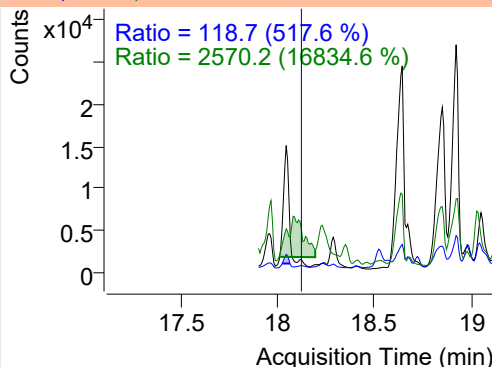
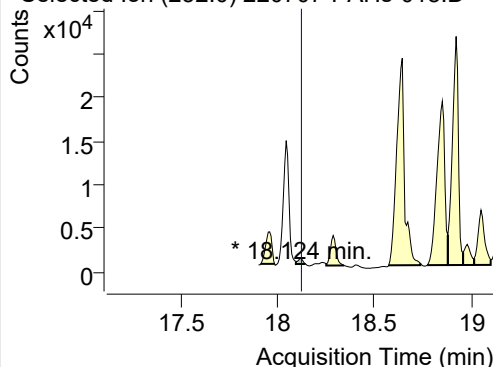
+ SIM (15.811-16.203 min, 73 scans) (**) 2207



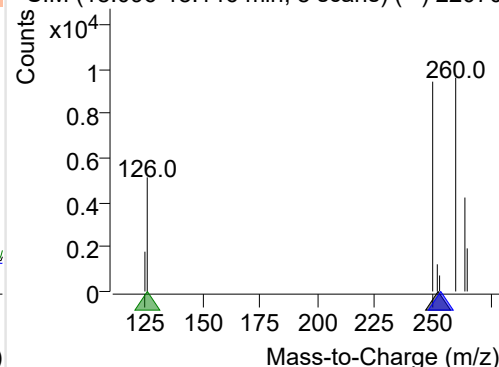
Benzo(b)fluoranthene

+ Selected Ion (252.0) 220707-PAHs-018.D

252.0, 253.0, 126.0

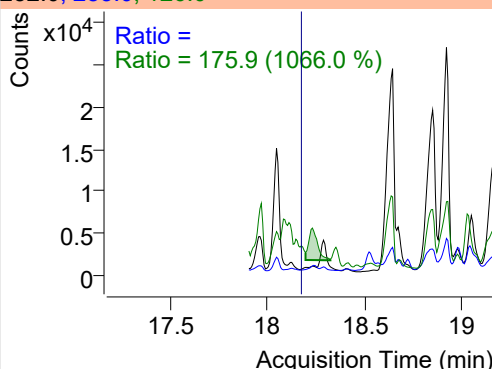
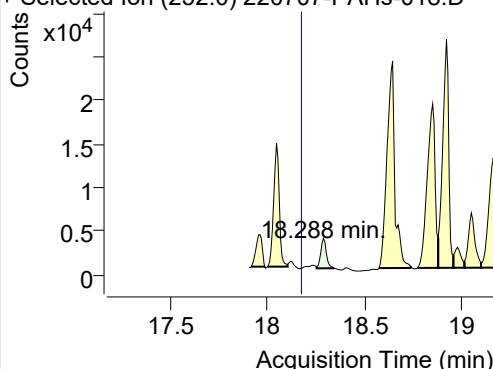


+ SIM (18.096-18.146 min, 8 scans) (**) 22070

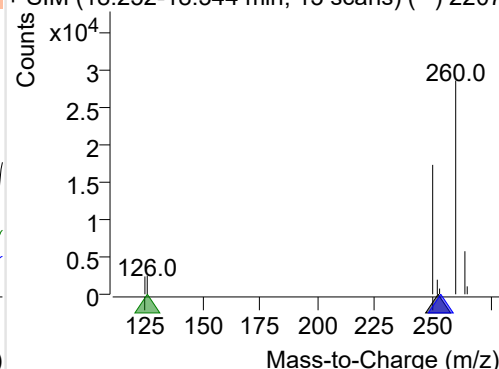
**Benzo(k)fluoranthene**

+ Selected Ion (252.0) 220707-PAHs-018.D

252.0, 253.0, 126.0

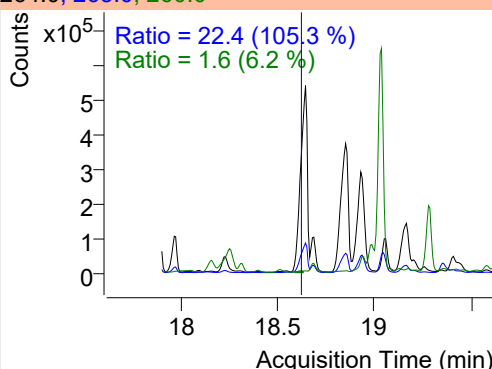
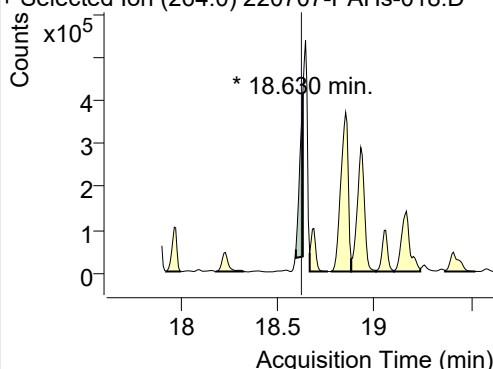


+ SIM (18.252-18.344 min, 13 scans) (**) 2207

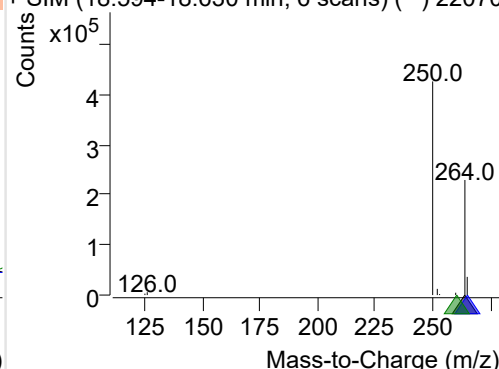
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 220707-PAHs-018.D

264.0, 265.0, 260.0

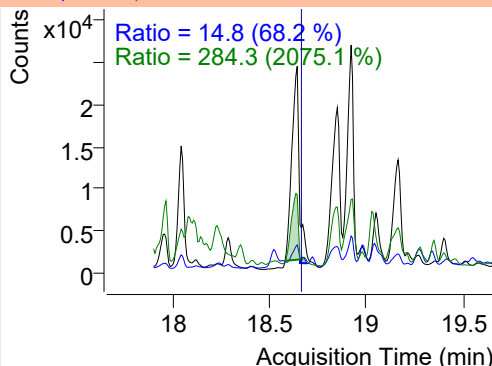
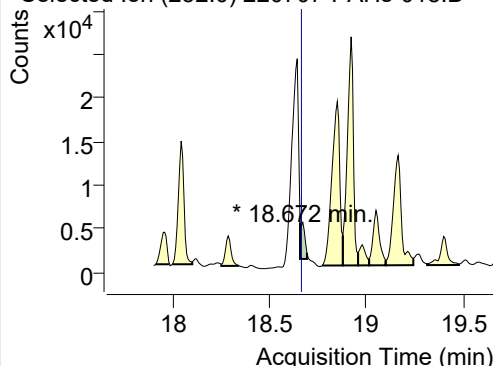


+ SIM (18.594-18.630 min, 6 scans) (**) 22070

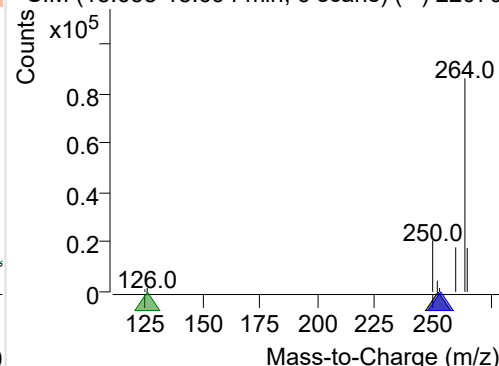
**Benzo(e)pyrene**

+ Selected Ion (252.0) 220707-PAHs-018.D

252.0, 253.0, 126.0



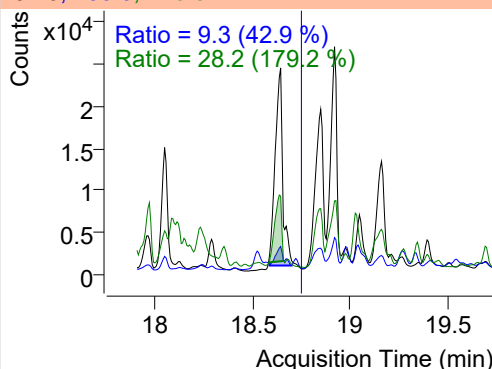
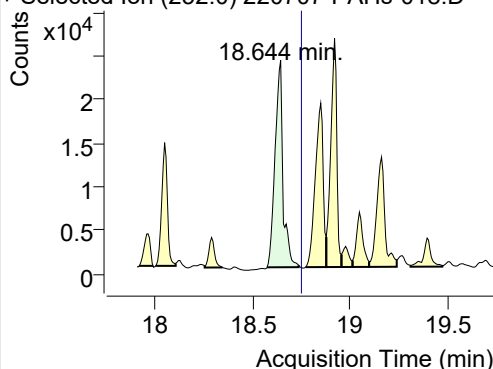
+ SIM (18.658-18.694 min, 6 scans) (**) 22070



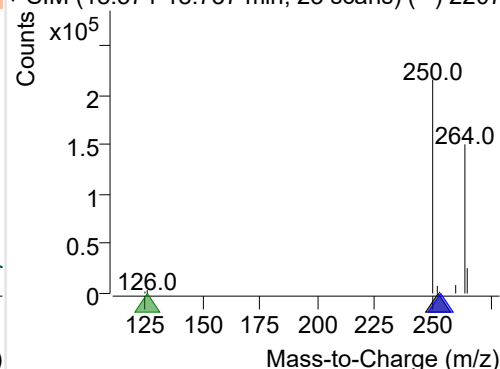
Benzo(a)pyrene

+ Selected Ion (252.0) 220707-PAHs-018.D

252.0, 253.0, 126.0

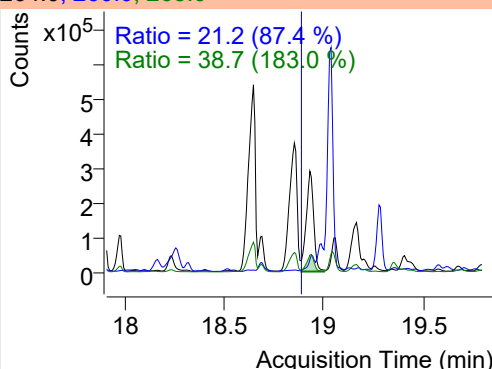
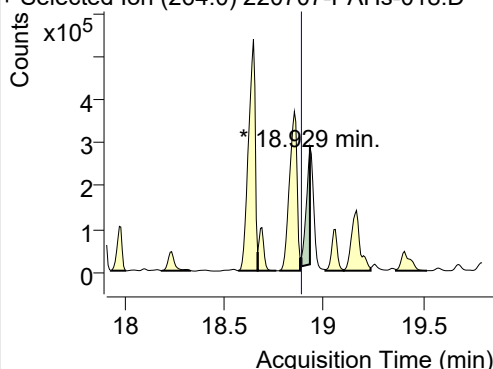


+ SIM (18.574-18.737 min, 23 scans) (**) 2207

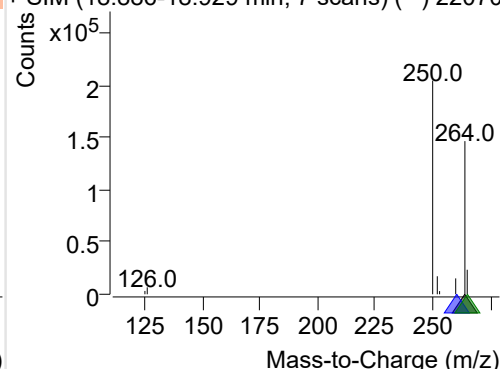
**IS-D12-Perylene**

+ Selected Ion (264.0) 220707-PAHs-018.D

264.0, 260.0, 265.0

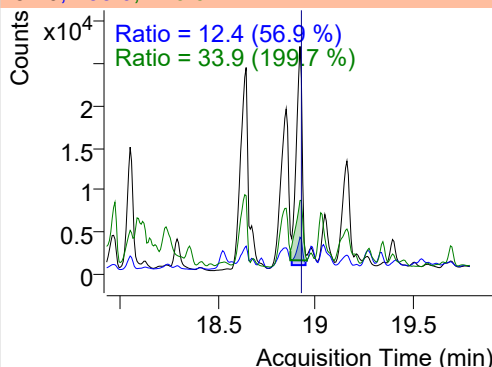
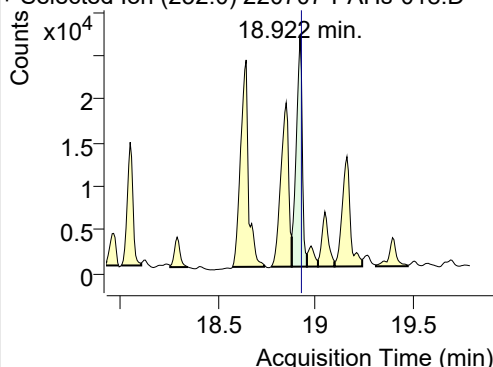


+ SIM (18.886-18.929 min, 7 scans) (**) 22070

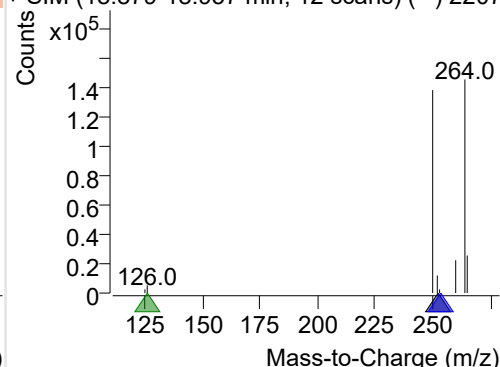
**Perylene**

+ Selected Ion (252.0) 220707-PAHs-018.D

252.0, 253.0, 126.0

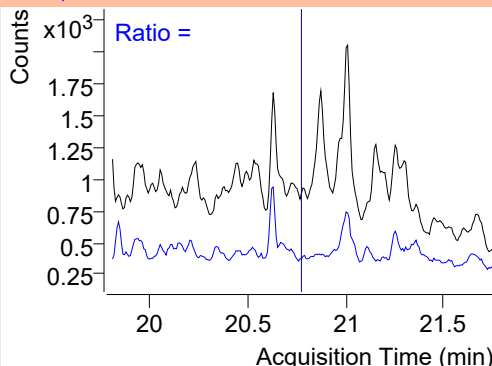
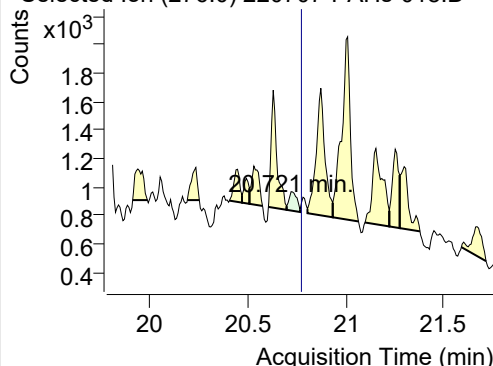


+ SIM (18.879-18.957 min, 12 scans) (**) 2207

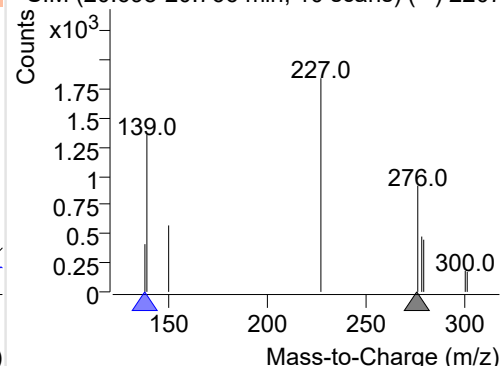
**Indeno(1,2,3-c,d)pyrene**

+ Selected Ion (276.0) 220707-PAHs-018.D

276.0, 138.0



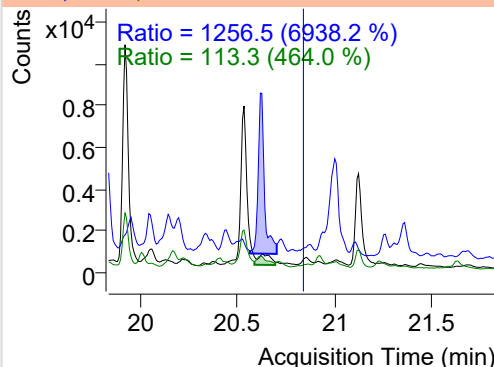
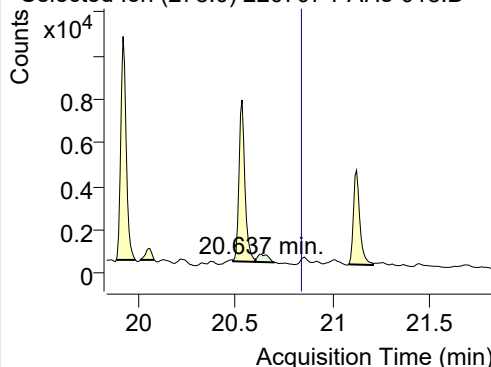
+ SIM (20.698-20.766 min, 10 scans) (**) 2207



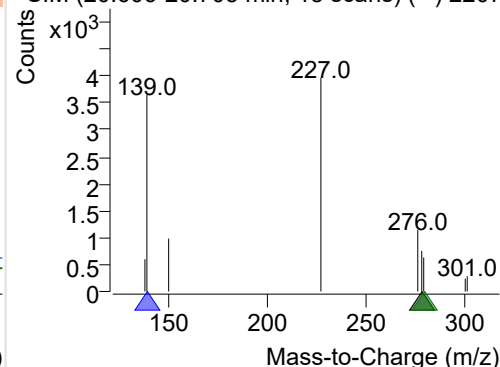
Dibenz(a,h)anthracene

+ Selected Ion (278.0) 220707-PAHs-018.D

278.0, 139.0, 279.0

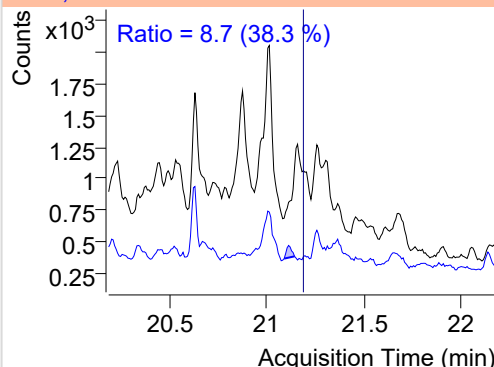
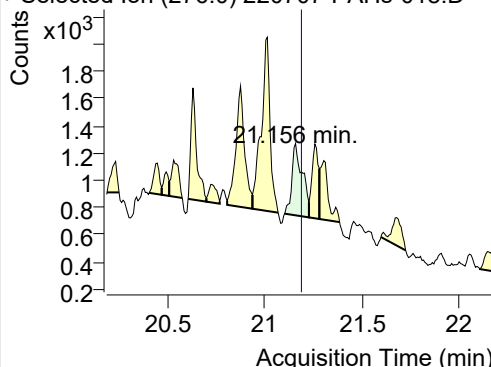


+ SIM (20.606-20.705 min, 13 scans) (**) 2207

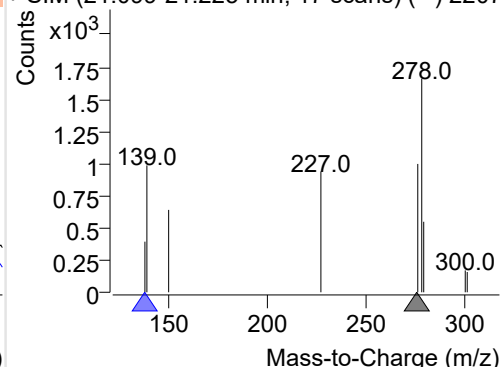
**Benzo(g,h,i)perylene**

+ Selected Ion (276.0) 220707-PAHs-018.D

276.0, 138.0

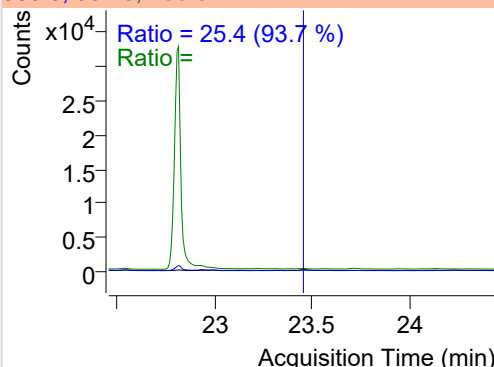
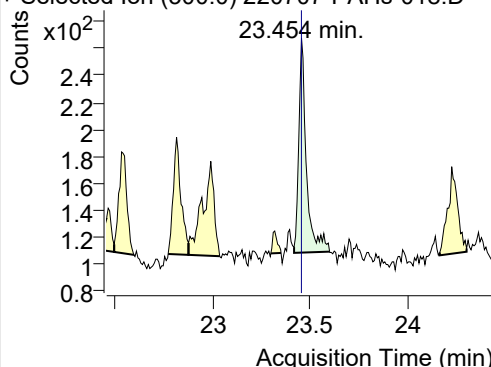


+ SIM (21.099-21.225 min, 17 scans) (**) 2207

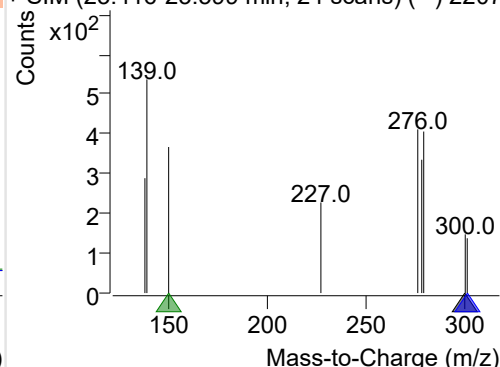
**Coronene**

+ Selected Ion (300.0) 220707-PAHs-018.D

300.0, 301.0, 150.0



+ SIM (23.416-23.599 min, 24 scans) (**) 2207



Quantitative Analysis Sample Based Report

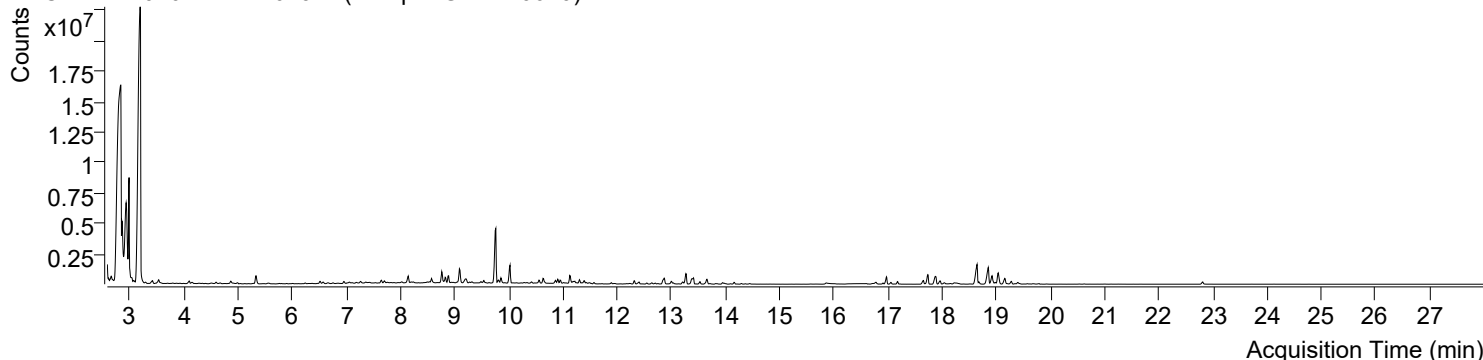


Trusted Answers

| | | | |
|---------------------------|--|-----------------------|------------------------|
| Batch Data Path File Name | D:\MassHunter\GCMS\1\data\PAHs\220707-PAHs-Sample\QuantResults\220707-PAHs-Quant.batch.bin | | |
| Analysis Time Stamp | 2022-07-09 오전 11:12:52 | Analyst Name | DESKTOP-86B7UPG\5975MS |
| Report Generation Time | 2022-07-09 오전 11:13:20 | Report Generator Name | DESKTOP-86B7UPG\5975MS |
| Calibration Last Update | 2022-07-09 오전 11:04:15 | Batch State | Processed |
| Analyze Quant Version | 10.2 | Report Quant Version | 10.2 |
| Acq. Date-Time | 2022-07-07 오후 10:39:35 | Data File | 220707-PAHs-019.D |
| Type | Sample | Name | Sample-Gas-220610 |
| Dil. | 1 | Acq. Method File | PAHs 19mix-Method |

Sample Chromatogram

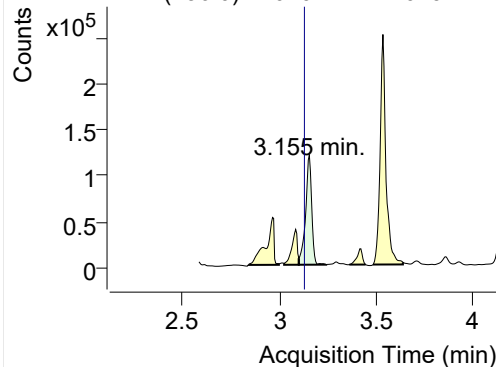
+ TIC SIM 220707-PAHs-019.D (Sample-Gas-220610)



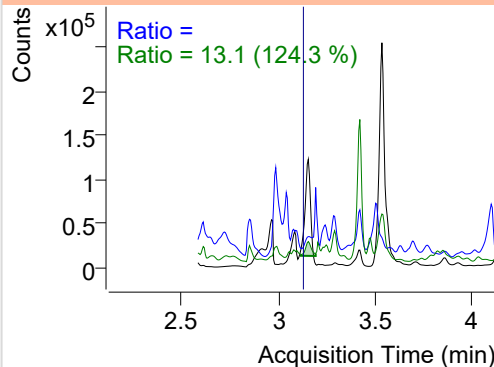
| Name | RT | Transition | Resp. | Height | Final Conc. Units | Ratio |
|-------------------------|--------|------------|----------|------------|-------------------|-------|
| IS-D8-Naphthalene | 3.155 | 136.0 | 261148 | 120056.30 | ND ng/ml | 13.1 |
| Naphthalene | 3.172 | 128.0 | 37257889 | 8360154.67 | ND ng/ml | 28.5 |
| Acenaphthylene | 6.185 | 152.0 | 7634 | 3690.11 | ND ng/ml | 194.8 |
| IS-D10-Acenaphthene | 6.516 | 164.0 | 176039 | 90204.96 | ND ng/ml | 94.9 |
| Acenaphthene | 6.575 | 154.0 | 70600 | 35842.45 | ND ng/ml | 107.7 |
| LSS-D10-Fluorene | 7.648 | 176.0 | 162076 | 95425.25 | ND ng/ml | 93.9 |
| Fluorene | 7.701 | 166.0 | 136376 | 77865.29 | ND ng/ml | 91.8 |
| IS-D10-Phenanthrene | 9.811 | 188.0 | 292486 | 178725.24 | ND ng/ml | 17.0 |
| Phenanthrene | 9.853 | 178.0 | 414940 | 257672.75 | ND ng/ml | 19.0 |
| Anthracene | 9.927 | 178.0 | 11348 | 5942.17 | ND ng/ml | |
| Fluoranthene | 12.548 | 202.0 | 90693 | 57901.00 | ND ng/ml | 18.6 |
| LSS-D10-Pyrene | 13.003 | 212.0 | 240055 | 146056.20 | ND ng/ml | 29.9 |
| Pyrene | 13.036 | 202.0 | 131404 | 70501.00 | ND ng/ml | 16.5 |
| Benz(a)anthracene | 15.719 | 228.0 | 1452 | 366.11 | ND ng/ml | 112.3 |
| IS-D12-Chrysene | 15.860 | 240.0 | 225687 | 64654.45 | ND ng/ml | 21.3 |
| Chrysene | 15.903 | 228.0 | 8322 | 1728.58 | ND ng/ml | 17.5 |
| Benzo(b)fluoranthene | 18.117 | 252.0 | 2149 | 1228.04 | ND ng/ml | |
| Benzo(k)fluoranthene | 18.039 | 252.0 | 31202 | 14384.05 | ND ng/ml | 8.9 |
| SS-D12-Benzo(e)pyrene | 18.644 | 264.0 | 1570158 | 571842.93 | ND ng/ml | 3.1 |
| Benzo(e)pyrene | 18.644 | 252.0 | 71153 | 24117.05 | ND ng/ml | 10.9 |
| Benzo(a)pyrene | 18.644 | 252.0 | 71153 | 24117.05 | ND ng/ml | 10.9 |
| IS-D12-Perylene | 18.850 | 264.0 | 1069050 | 422914.93 | ND ng/ml | |
| Perylene | 18.915 | 252.0 | 56444 | 28885.05 | ND ng/ml | 12.0 |
| Indeno(1,2,3-c,d)pyrene | 20.728 | 276.0 | 1334 | 301.82 | ND ng/ml | 30.0 |
| Dibenz(a,h)anthracene | 20.652 | 278.0 | 1637 | 358.00 | ND ng/ml | 129.8 |
| Benzo(g,h,i)perylene | 21.156 | 276.0 | 2444 | 647.88 | ND ng/ml | |
| Coronene | 23.454 | 300.0 | 424 | 151.87 | ND ng/ml | |

IS-D8-Naphthalene

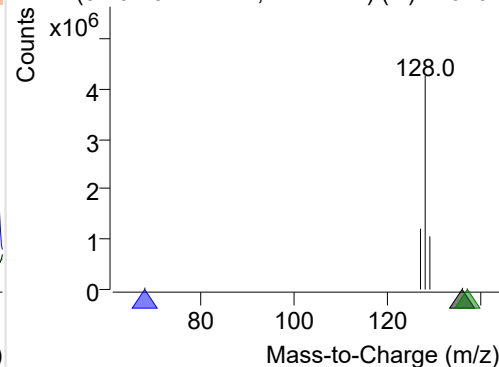
+ Selected Ion (136.0) 220707-PAHs-019.D



136.0, 68.0, 137.0

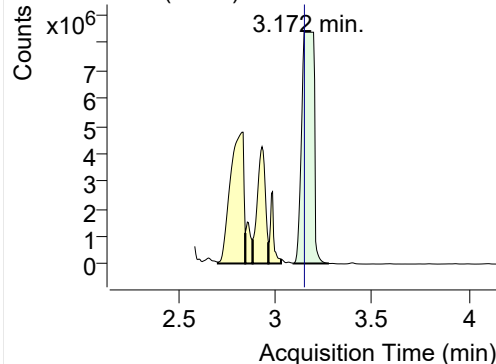


+ SIM (3.101-3.242 min, 27 scans) (**) 220707

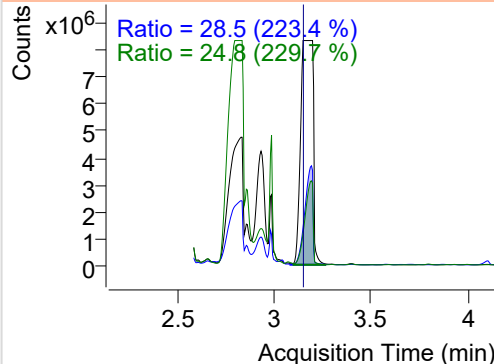


Naphthalene

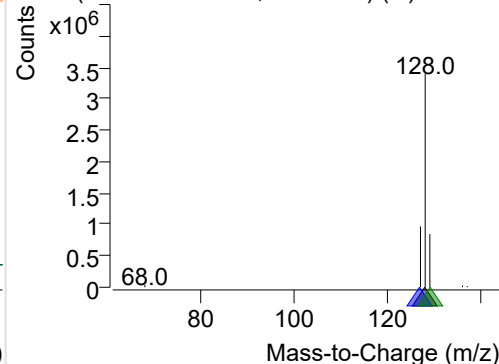
+ Selected Ion (128.0) 220707-PAHs-019.D



128.0, 127.0, 129.0

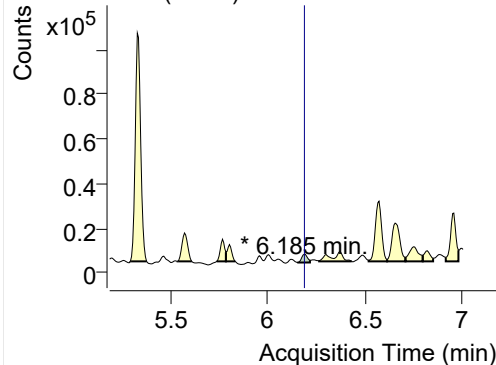


+ SIM (3.096-3.278 min, 34 scans) (**) 220707

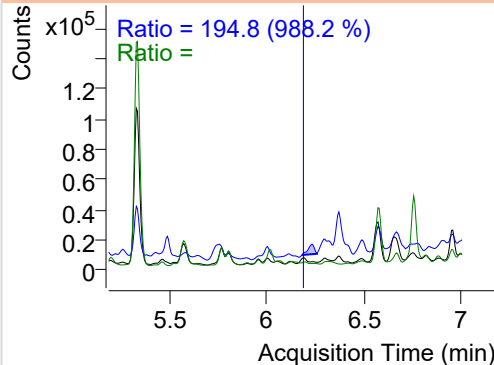


Acenaphthylene

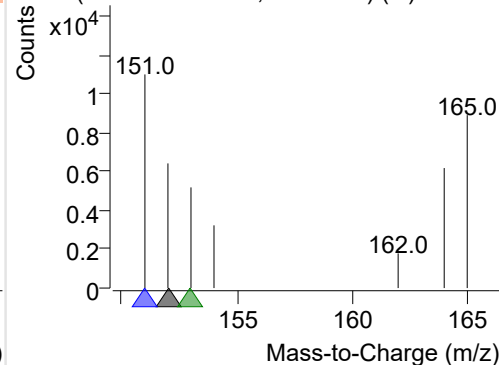
+ Selected Ion (152.0) 220707-PAHs-019.D



152.0, 151.0, 153.0

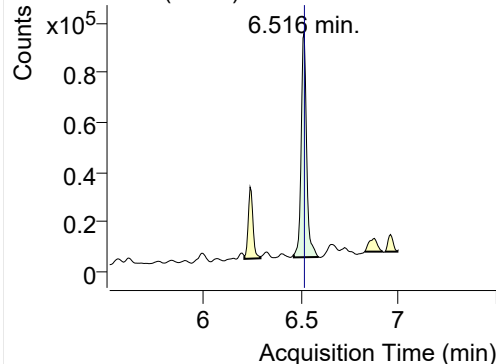


+ SIM (6.149-6.214 min, 12 scans) (**) 220707

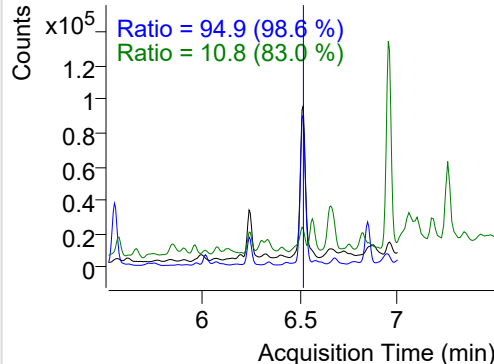


IS-D10-Acenaphthene

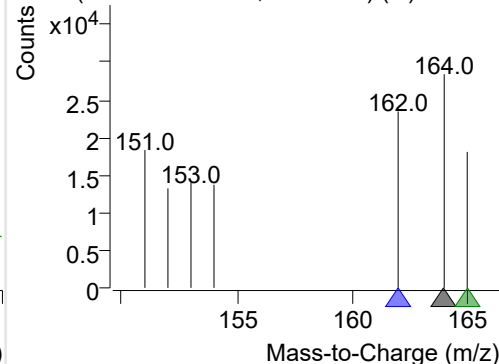
+ Selected Ion (164.0) 220707-PAHs-019.D



164.0, 162.0, 165.0

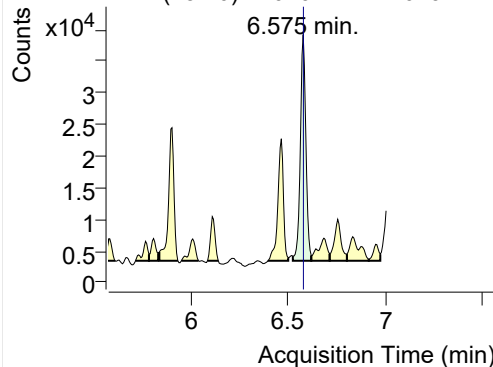


+ SIM (6.463-6.591 min, 22 scans) (**) 220707

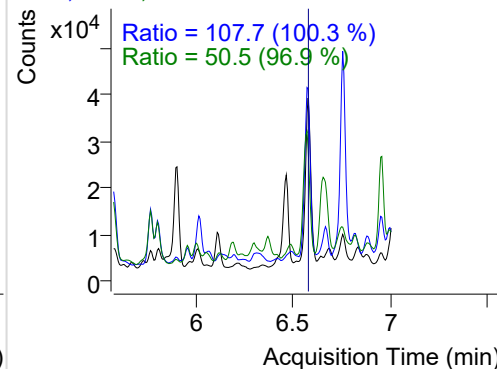


Acenaphthene

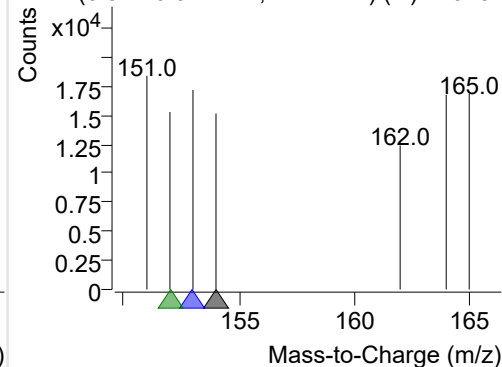
+ Selected Ion (154.0) 220707-PAHs-019.D



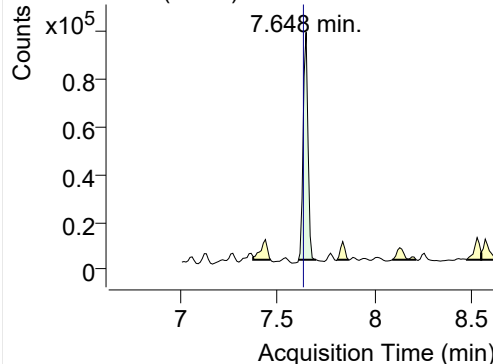
154.0, 153.0, 152.0



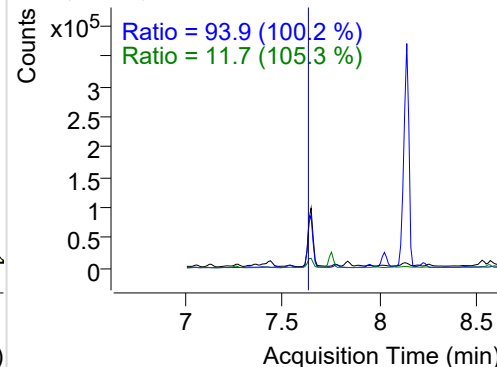
+ SIM (6.522-6.617 min, 17 scans) (**) 220707

**LSS-D10-Fluorene**

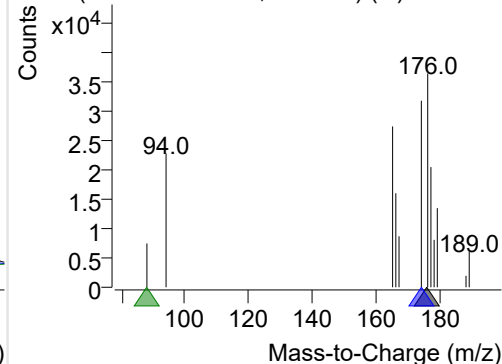
+ Selected Ion (176.0) 220707-PAHs-019.D



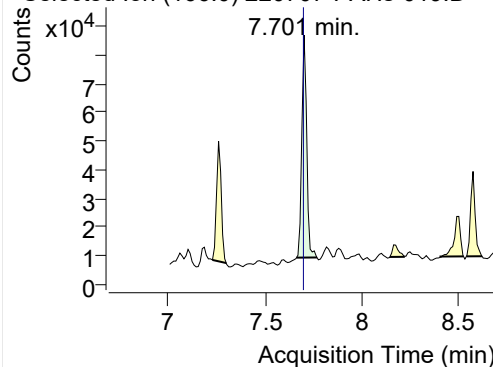
176.0, 174.0, 88.0



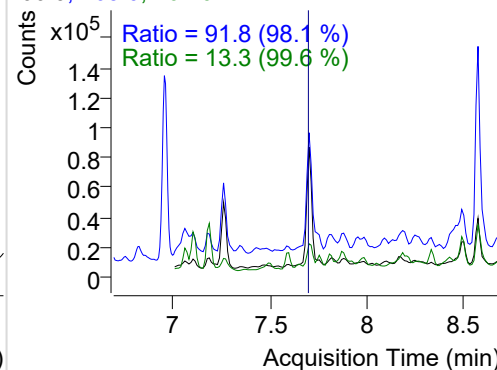
+ SIM (7.609-7.699 min, 8 scans) (**) 220707-I

**Fluorene**

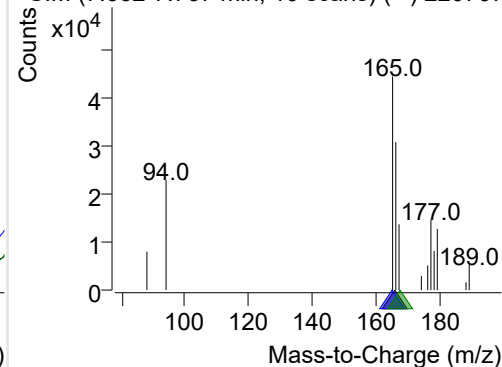
+ Selected Ion (166.0) 220707-PAHs-019.D



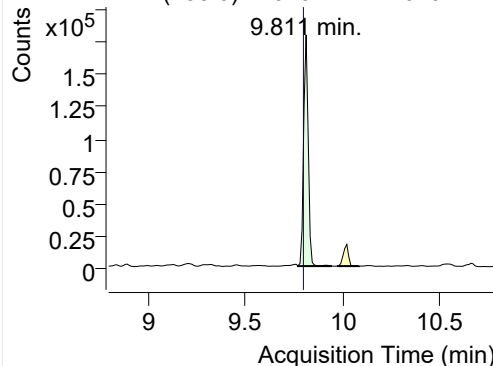
166.0, 165.0, 167.0



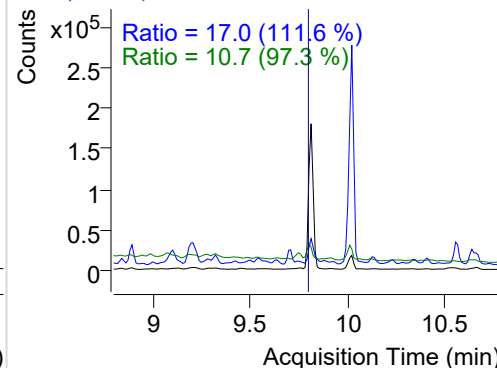
+ SIM (7.662-7.767 min, 10 scans) (**) 220707

**IS-D10-Phenanthrene**

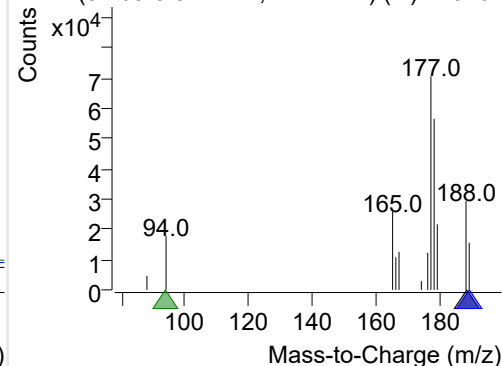
+ Selected Ion (188.0) 220707-PAHs-019.D



188.0, 189.0, 94.0

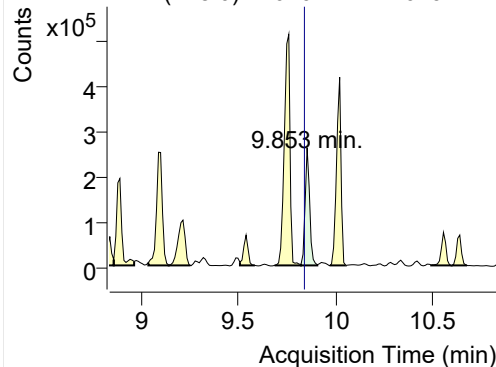


+ SIM (9.769-9.944 min, 17 scans) (**) 220707

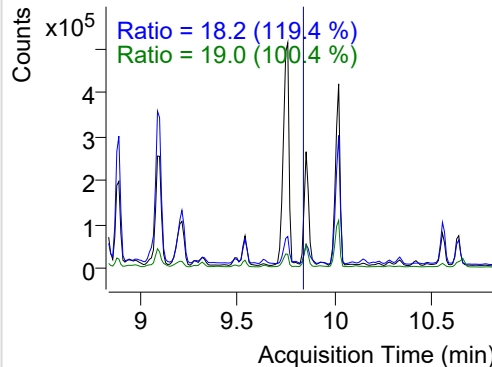


Phenanthrene

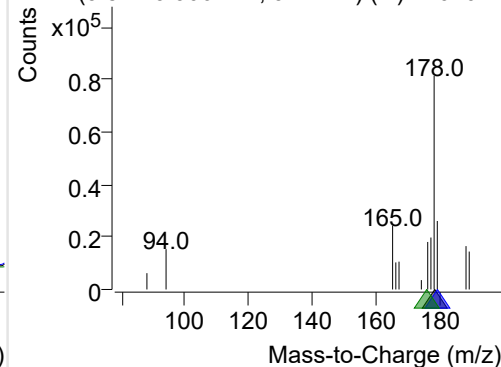
+ Selected Ion (178.0) 220707-PAHs-019.D



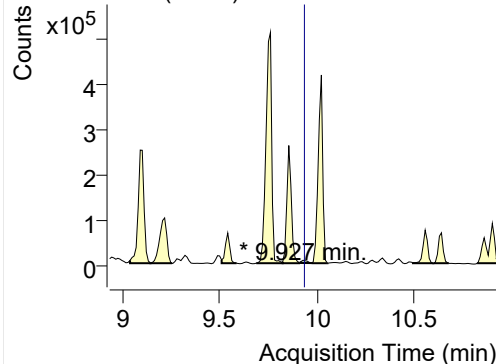
178.0, 179.0, 176.0



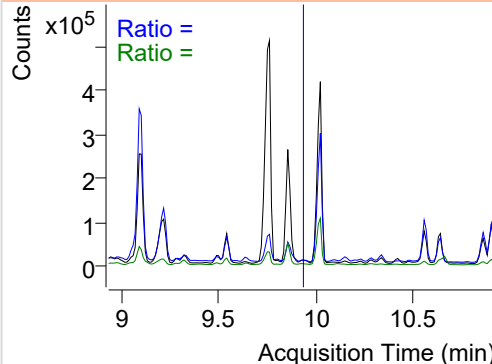
+ SIM (9.822-9.906 min, 9 scans) (**) 220707-I

**Anthracene**

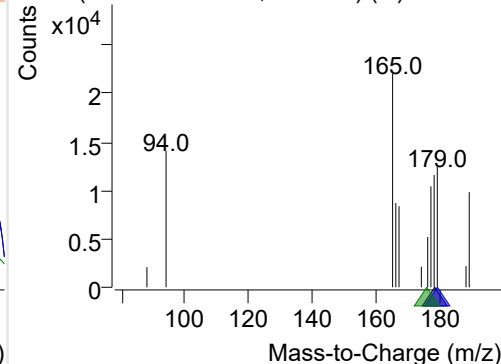
+ Selected Ion (178.0) 220707-PAHs-019.D



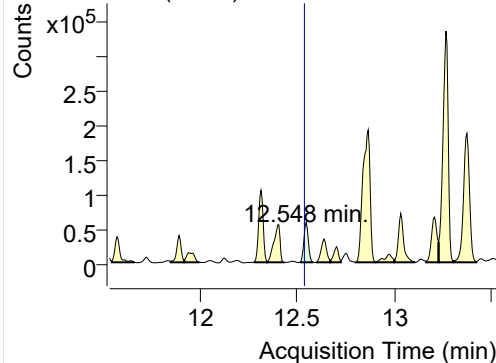
178.0, 179.0, 176.0



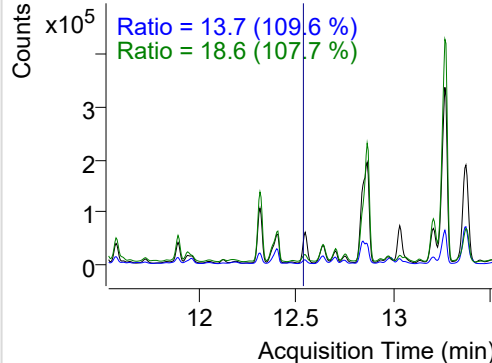
+ SIM (9.916-9.969 min, 6 scans) (**) 220707-I

**Fluoranthene**

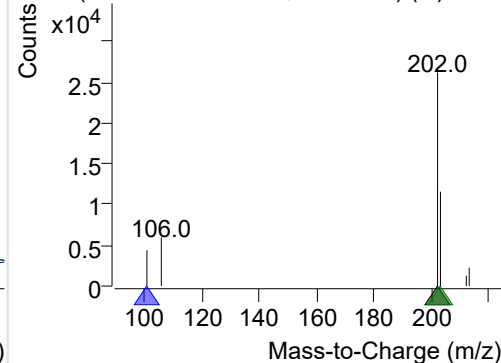
+ Selected Ion (202.0) 220707-PAHs-019.D



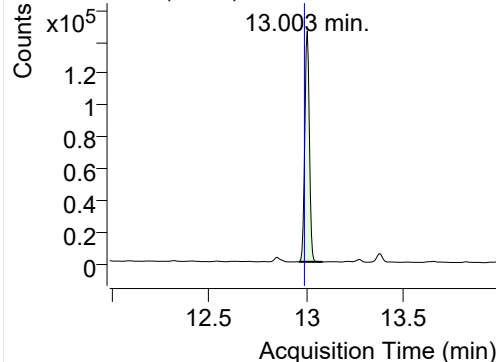
202.0, 101.0, 203.0



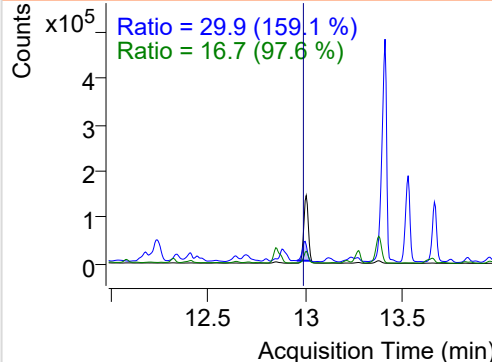
+ SIM (12.516-12.585 min, 12 scans) (**) 2207

**LSS-D10-Pyrene**

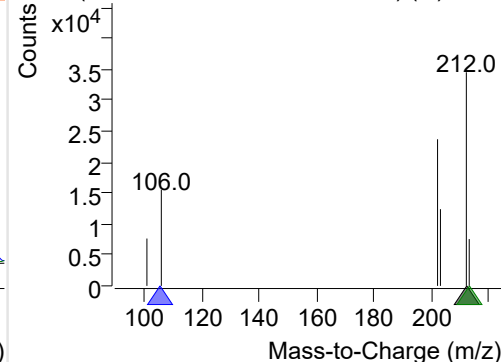
+ Selected Ion (212.0) 220707-PAHs-019.D



212.0, 106.0, 213.0

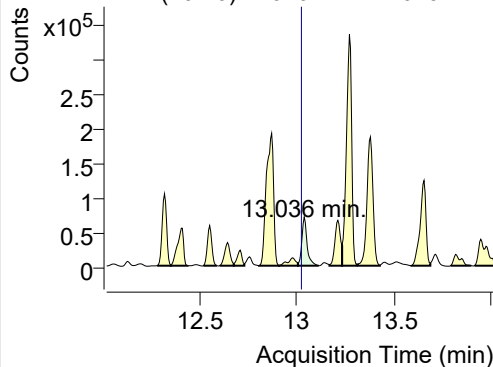


+ SIM (12.960-13.083 min, 22 scans) (**) 2207

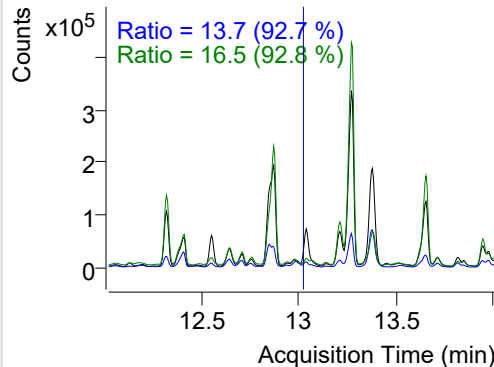


Pyrene

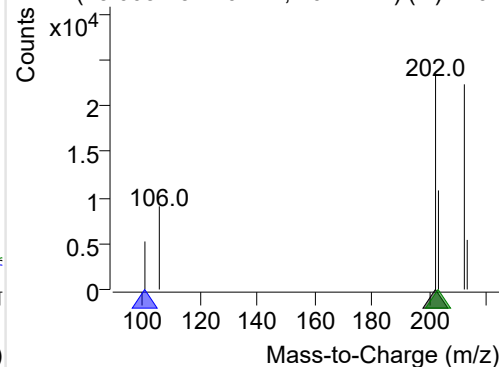
+ Selected Ion (202.0) 220707-PAHs-019.D



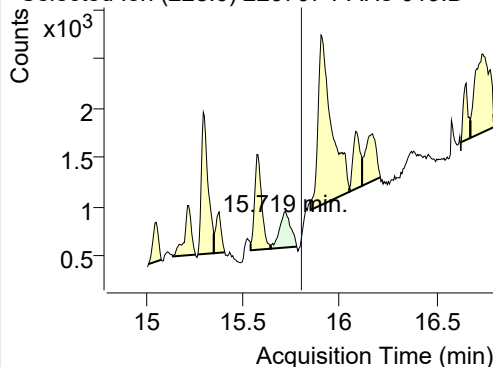
202.0, 101.0, 203.0



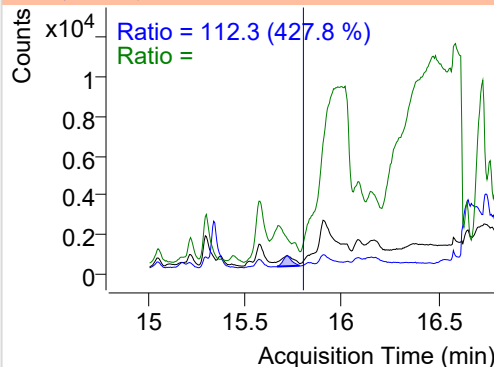
+ SIM (13.003-13.110 min, 20 scans) (**) 2207

**Benz(a)anthracene**

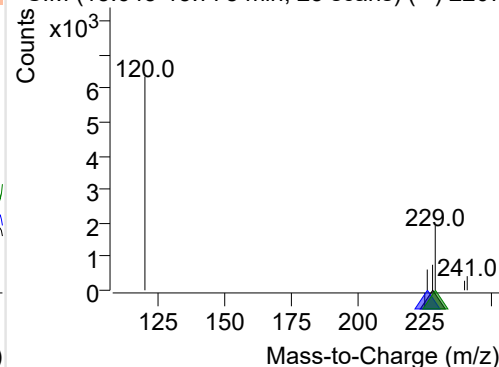
+ Selected Ion (228.0) 220707-PAHs-019.D



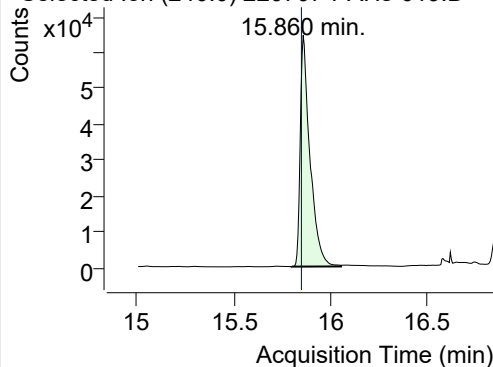
228.0, 226.0, 229.0



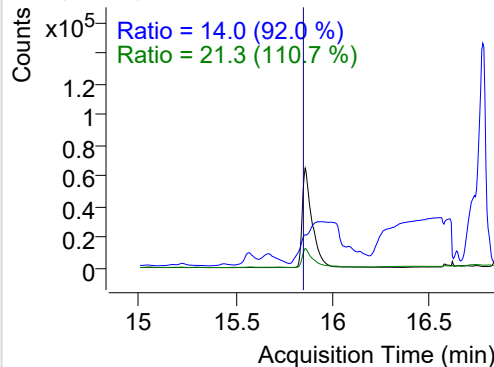
+ SIM (15.643-15.778 min, 25 scans) (**) 2207

**IS-D12-Chrysene**

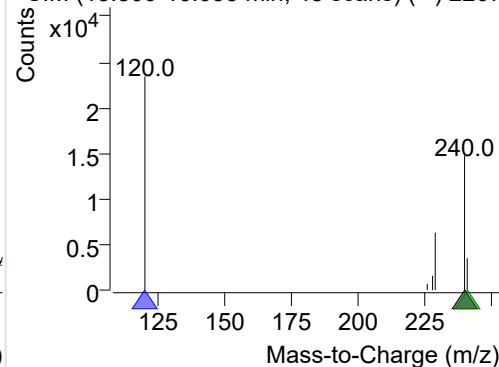
+ Selected Ion (240.0) 220707-PAHs-019.D



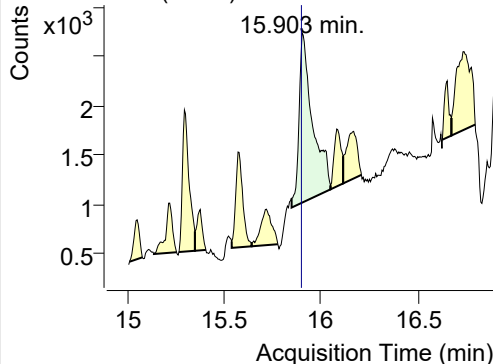
240.0, 120.0, 241.0



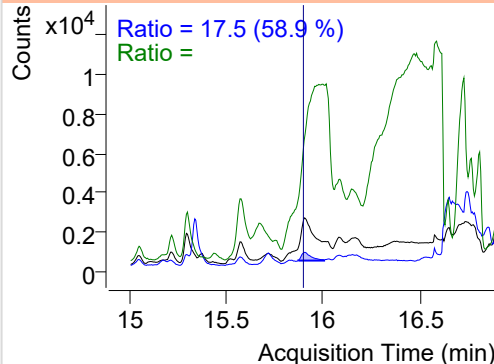
+ SIM (15.800-16.055 min, 48 scans) (**) 2207

**Chrysene**

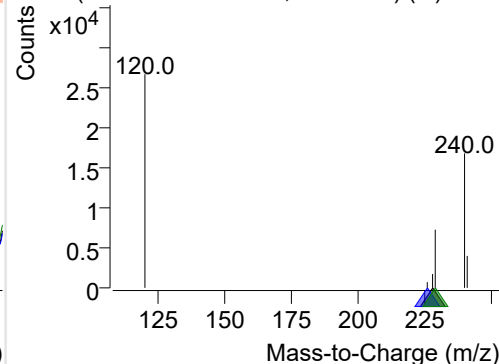
+ Selected Ion (228.0) 220707-PAHs-019.D



228.0, 226.0, 229.0



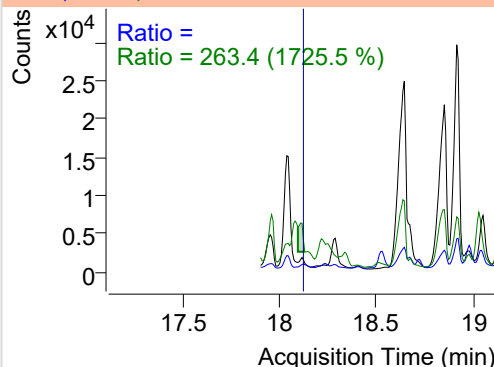
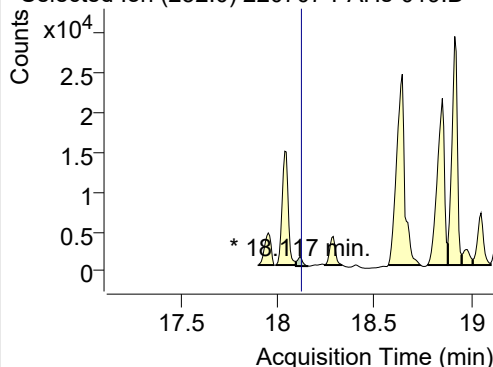
+ SIM (15.849-16.050 min, 38 scans) (**) 2207



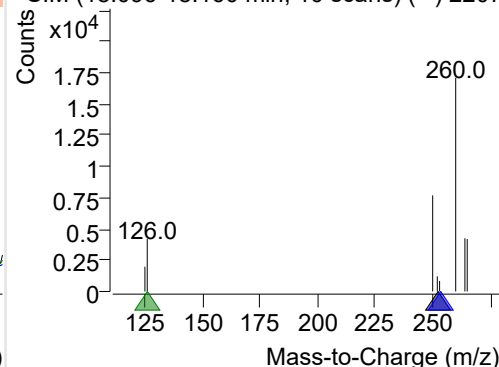
Benzo(b)fluoranthene

+ Selected Ion (252.0) 220707-PAHs-019.D

252.0, 253.0, 126.0

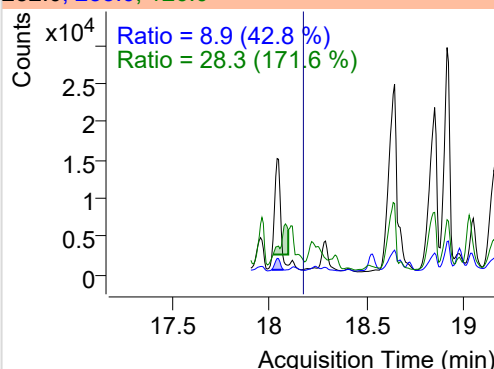
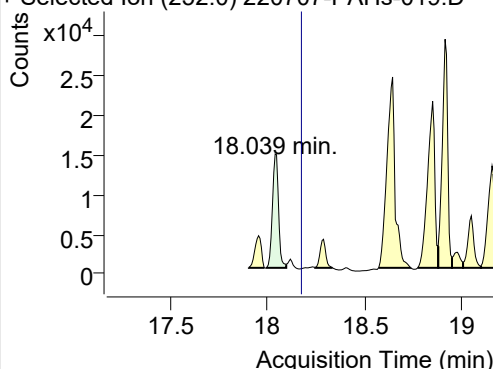


+ SIM (18.096-18.160 min, 10 scans) (**) 2207

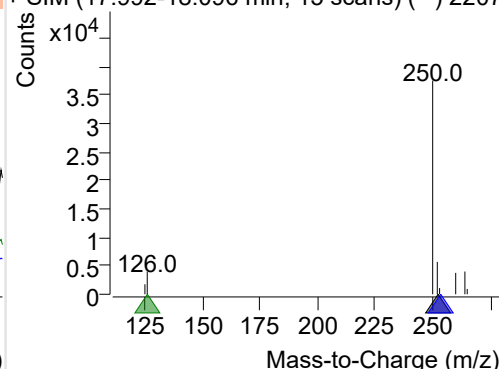
**Benzo(k)fluoranthene**

+ Selected Ion (252.0) 220707-PAHs-019.D

252.0, 253.0, 126.0

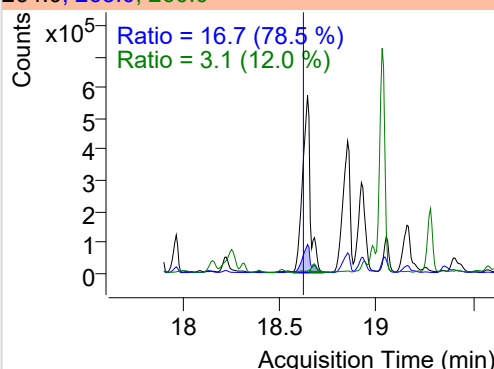
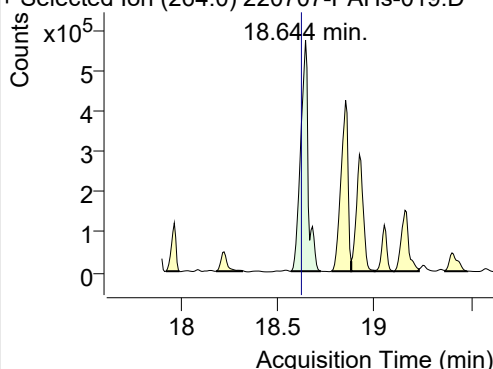


+ SIM (17.992-18.096 min, 15 scans) (**) 2207

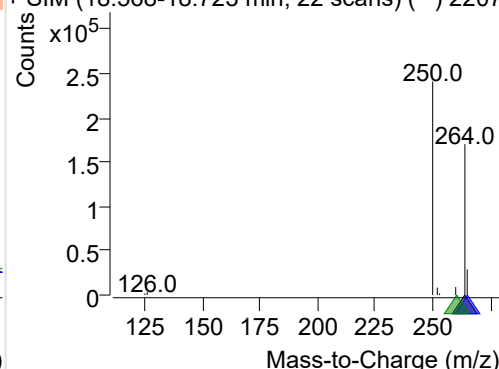
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 220707-PAHs-019.D

264.0, 265.0, 260.0

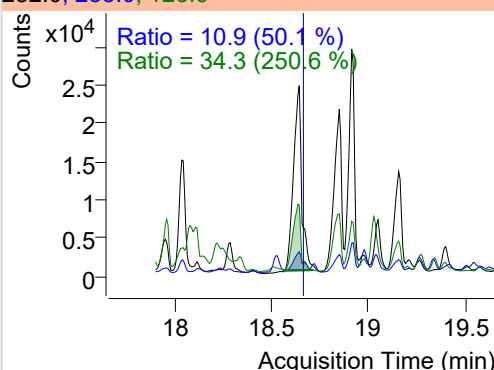
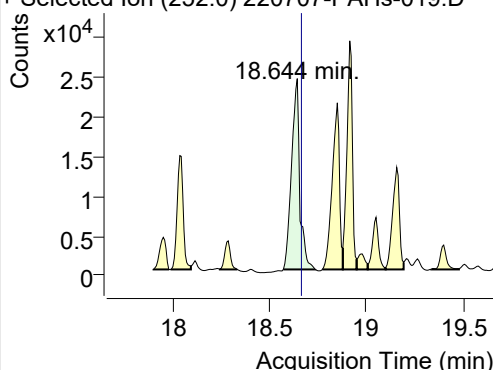


+ SIM (18.568-18.723 min, 22 scans) (**) 2207

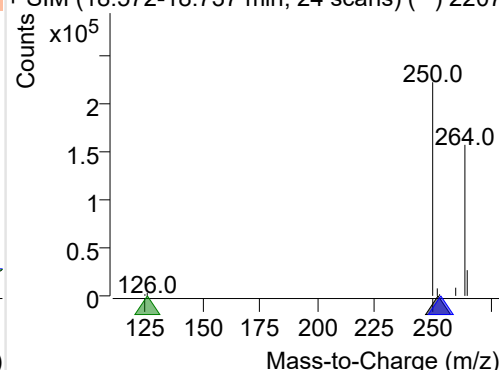
**Benzo(e)pyrene**

+ Selected Ion (252.0) 220707-PAHs-019.D

252.0, 253.0, 126.0



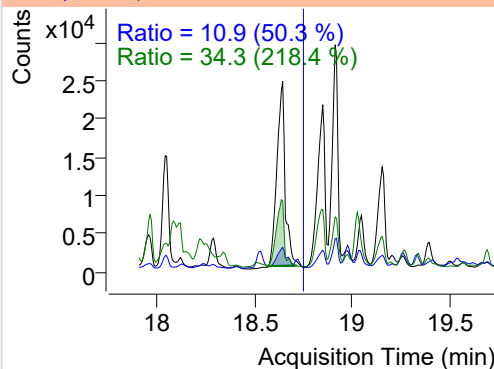
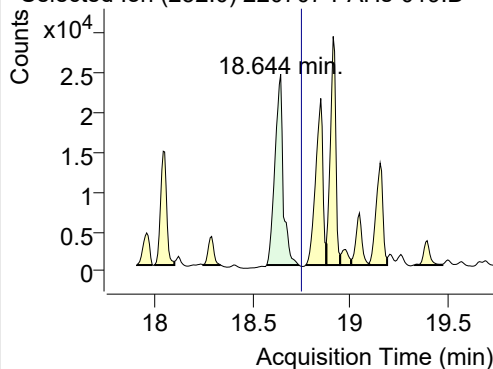
+ SIM (18.572-18.737 min, 24 scans) (**) 2207



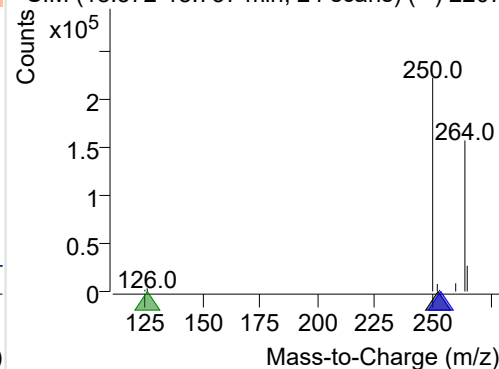
Benzo(a)pyrene

+ Selected Ion (252.0) 220707-PAHs-019.D

252.0, 253.0, 126.0

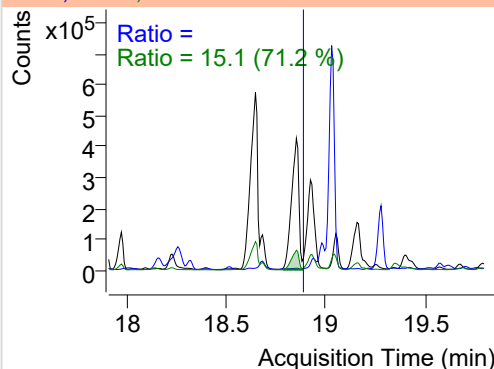
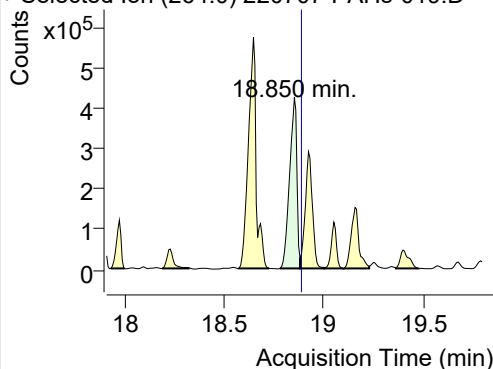


+ SIM (18.572-18.737 min, 24 scans) (**) 2207

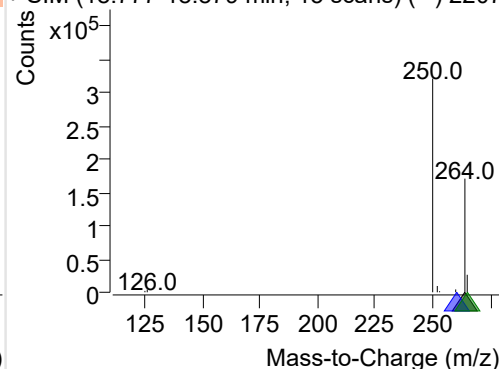
**IS-D12-Perylene**

+ Selected Ion (264.0) 220707-PAHs-019.D

264.0, 260.0, 265.0

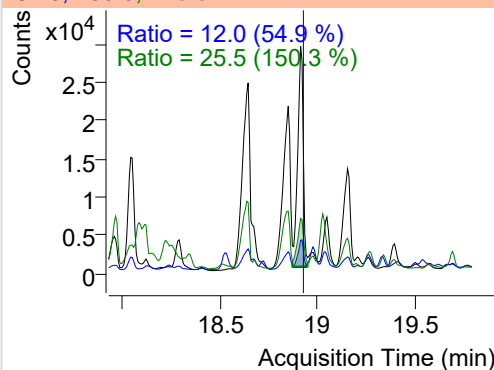
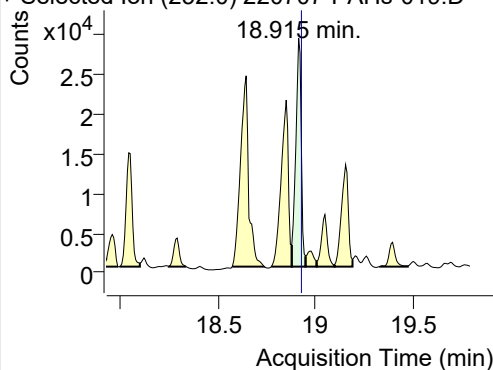


+ SIM (18.777-18.879 min, 15 scans) (**) 2207

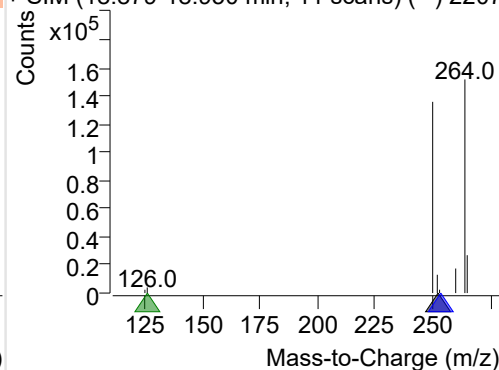
**Perylene**

+ Selected Ion (252.0) 220707-PAHs-019.D

252.0, 253.0, 126.0

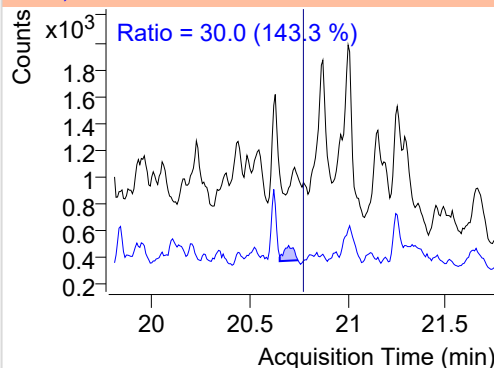
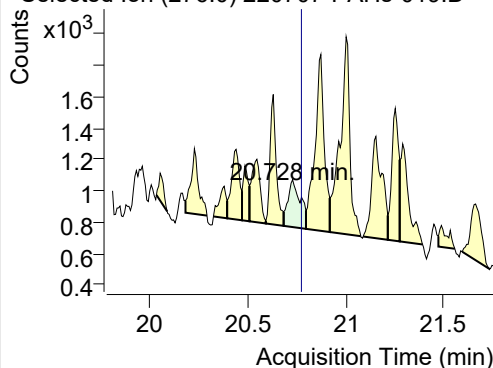


+ SIM (18.879-18.950 min, 11 scans) (**) 2207

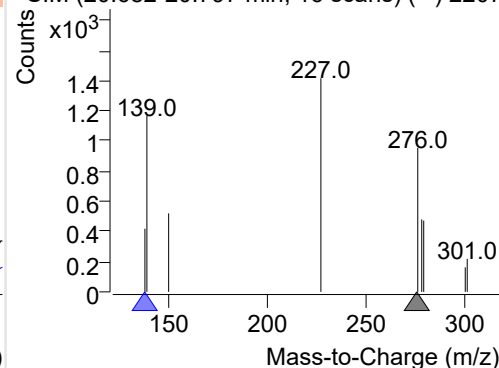
**Indeno(1,2,3-c,d)pyrene**

+ Selected Ion (276.0) 220707-PAHs-019.D

276.0, 138.0



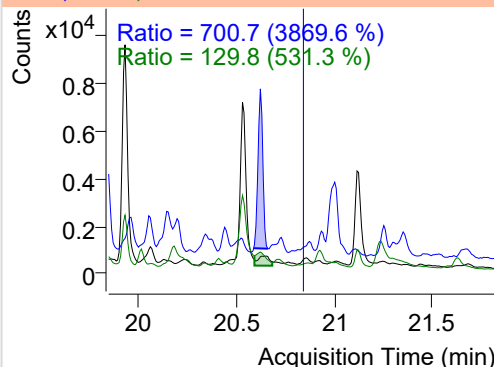
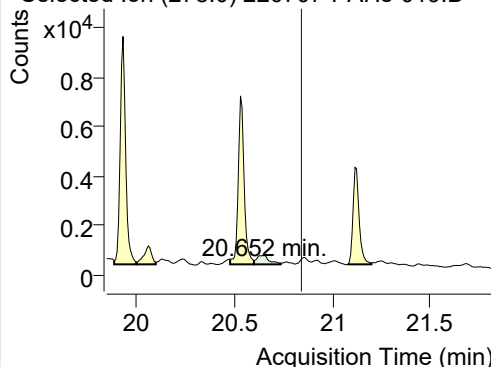
+ SIM (20.682-20.797 min, 16 scans) (**) 2207



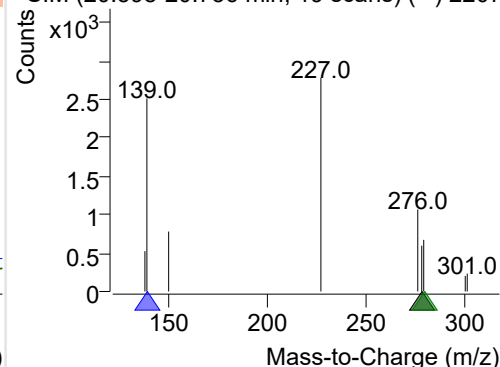
Dibenz(a,h)anthracene

+ Selected Ion (278.0) 220707-PAHs-019.D

278.0, 139.0, 279.0

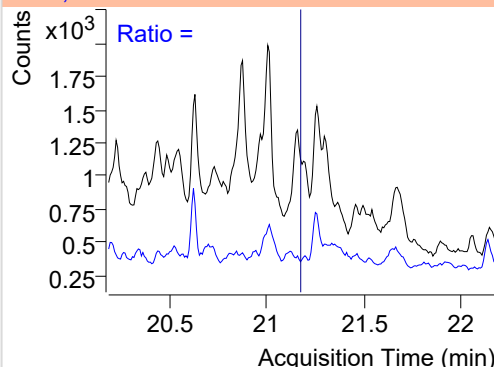
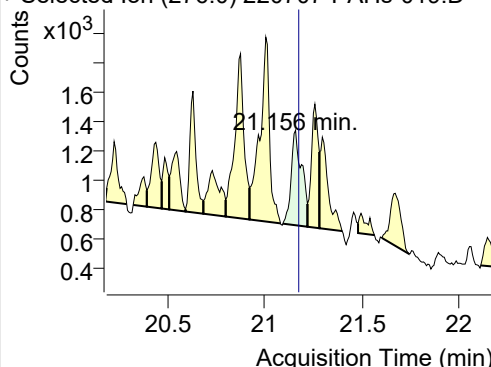


+ SIM (20.598-20.736 min, 19 scans) (**) 2207

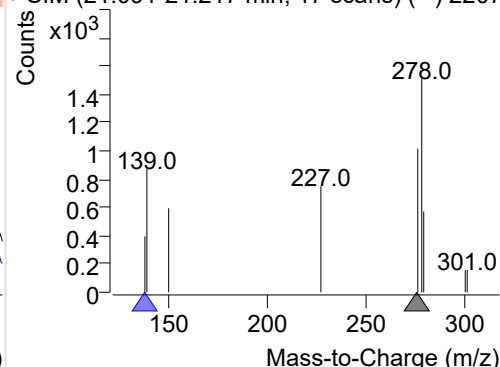
**Benzo(g,h,i)perylene**

+ Selected Ion (276.0) 220707-PAHs-019.D

276.0, 138.0

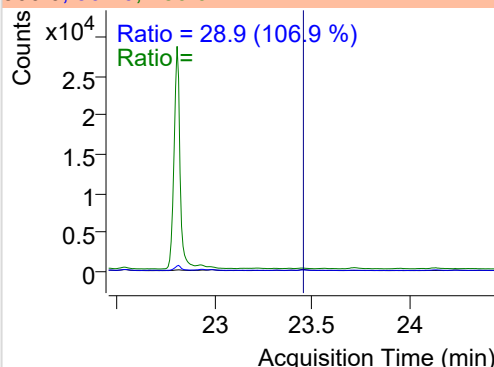
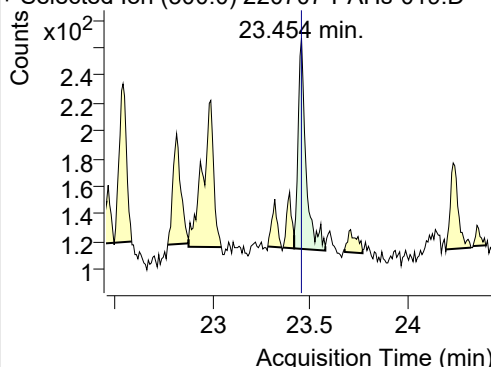


+ SIM (21.091-21.217 min, 17 scans) (**) 2207

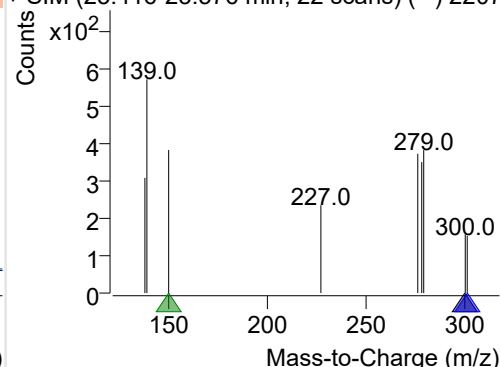
**Coronene**

+ Selected Ion (300.0) 220707-PAHs-019.D

300.0, 301.0, 150.0



+ SIM (23.416-23.576 min, 22 scans) (**) 2207



Quantitative Analysis Sample Based Report

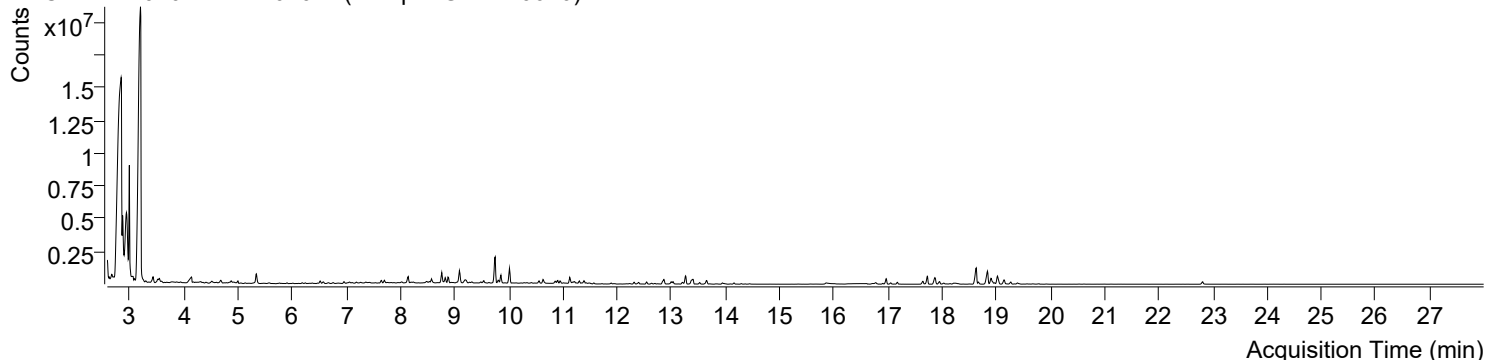


Trusted Answers

| | | | |
|---------------------------|--|-----------------------|------------------------|
| Batch Data Path File Name | D:\MassHunter\GCMS\1\data\PAHs\220707-PAHs-Sample\QuantResults\220707-PAHs-Quant.batch.bin | | |
| Analysis Time Stamp | 2022-07-09 오전 11:12:52 | Analyst Name | DESKTOP-86B7UPG\5975MS |
| Report Generation Time | 2022-07-09 오전 11:13:20 | Report Generator Name | DESKTOP-86B7UPG\5975MS |
| Calibration Last Update | 2022-07-09 오전 11:04:15 | Batch State | Processed |
| Analyze Quant Version | 10.2 | Report Quant Version | 10.2 |
| Acq. Date-Time | 2022-07-07 오후 11:10:44 | Data File | 220707-PAHs-020.D |
| Type | Sample | Name | Sample-Gas-220616 |
| Dil. | 1 | Acq. Method File | PAHs 19mix-Method |

Sample Chromatogram

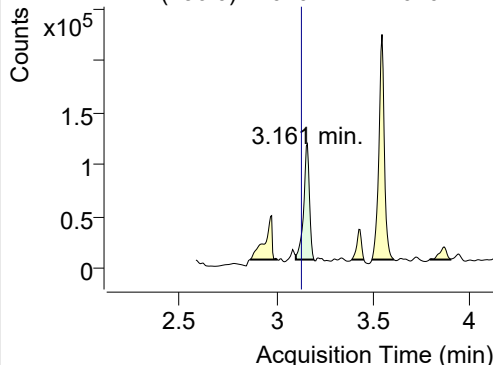
+ TIC SIM 220707-PAHs-020.D (Sample-Gas-220616)



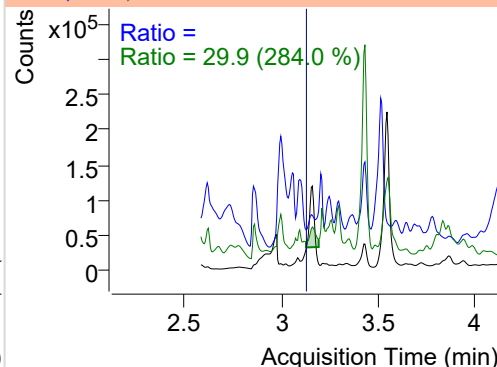
| Name | RT | Transition | Resp. | Height | Final Conc. Units | Ratio |
|-------------------------|--------|------------|----------|------------|-------------------|-------|
| IS-D8-Naphthalene | 3.161 | 136.0 | 228760 | 111445.21 | ND ng/ml | 29.9 |
| Naphthalene | 3.177 | 128.0 | 37803964 | 8378310.06 | ND ng/ml | 25.3 |
| Acenaphthylene | 6.185 | 152.0 | 75852 | 45256.96 | ND ng/ml | 21.3 |
| IS-D10-Acenaphthene | 6.516 | 164.0 | 165438 | 93096.97 | ND ng/ml | 89.2 |
| Acenaphthene | 6.575 | 154.0 | 63947 | 34503.12 | ND ng/ml | 99.3 |
| LSS-D10-Fluorene | 7.648 | 176.0 | 134842 | 82908.63 | ND ng/ml | 92.9 |
| Fluorene | 7.701 | 166.0 | 155900 | 95828.74 | ND ng/ml | 109.6 |
| IS-D10-Phenanthrene | 9.811 | 188.0 | 269199 | 164720.99 | ND ng/ml | 16.9 |
| Phenanthrene | 9.853 | 178.0 | 593386 | 380108.79 | ND ng/ml | 19.2 |
| Anthracene | 9.948 | 178.0 | 14903 | 8378.83 | ND ng/ml | 46.6 |
| Fluoranthene | 12.542 | 202.0 | 189190 | 121211.77 | ND ng/ml | 19.7 |
| LSS-D10-Pyrene | 12.998 | 212.0 | 197506 | 121235.36 | ND ng/ml | 20.8 |
| Pyrene | 13.030 | 202.0 | 245491 | 143301.36 | ND ng/ml | 17.1 |
| Benz(a)anthracene | 15.816 | 228.0 | 2976 | 931.36 | ND ng/ml | |
| IS-D12-Chrysene | 15.860 | 240.0 | 212489 | 59652.08 | ND ng/ml | 21.8 |
| Chrysene | 15.908 | 228.0 | 22471 | 5523.69 | ND ng/ml | 27.4 |
| Benzo(b)fluoranthene | 18.103 | 252.0 | 1143 | 694.56 | ND ng/ml | 28.2 |
| Benzo(k)fluoranthene | 18.274 | 252.0 | 5650 | 2788.83 | ND ng/ml | 11.6 |
| SS-D12-Benzo(e)pyrene | 18.630 | 264.0 | 949895 | 435001.97 | ND ng/ml | |
| Benzo(e)pyrene | 18.630 | 252.0 | 50382 | 18766.33 | ND ng/ml | 12.5 |
| Benzo(a)pyrene | 18.836 | 252.0 | 38134 | 15519.52 | ND ng/ml | 10.6 |
| IS-D12-Perylene | 18.836 | 264.0 | 722228 | 312306.12 | ND ng/ml | |
| Perylene | 18.900 | 252.0 | 38834 | 20516.51 | ND ng/ml | 13.3 |
| Indeno(1,2,3-c,d)pyrene | 20.774 | 276.0 | 283 | 145.56 | ND ng/ml | |
| Dibenz(a,h)anthracene | 21.118 | 278.0 | 8182 | 3908.34 | ND ng/ml | 15.9 |
| Benzo(g,h,i)perylene | 21.186 | 276.0 | 759 | 381.01 | ND ng/ml | 14.6 |
| Coronene | 23.446 | 300.0 | 355 | 135.62 | ND ng/ml | |

IS-D8-Naphthalene

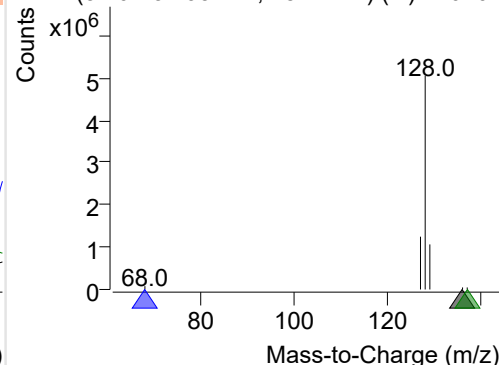
+ Selected Ion (136.0) 220707-PAHs-020.D



136.0, 68.0, 137.0

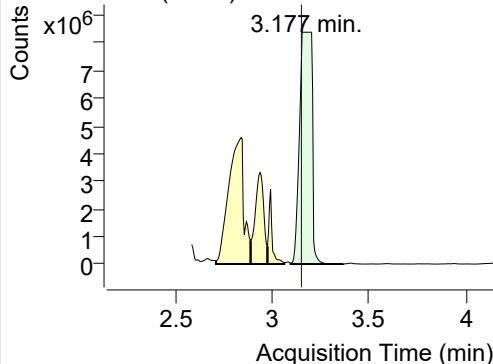


+ SIM (3.101-3.195 min, 18 scans) (**) 220707

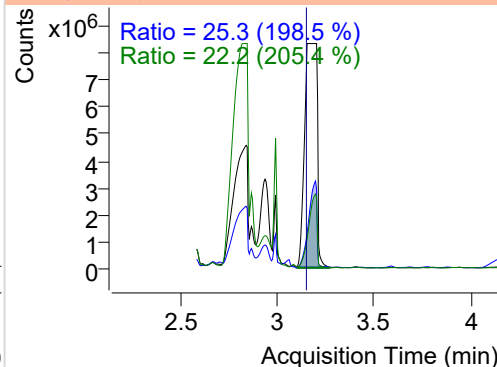


Naphthalene

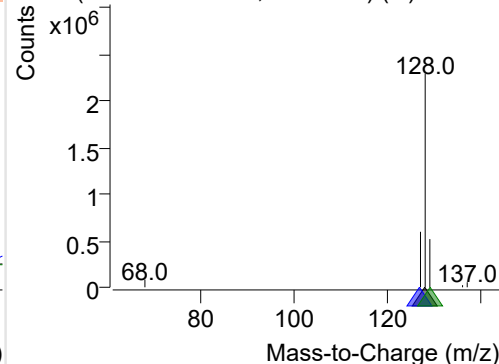
+ Selected Ion (128.0) 220707-PAHs-020.D



128.0, 127.0, 129.0

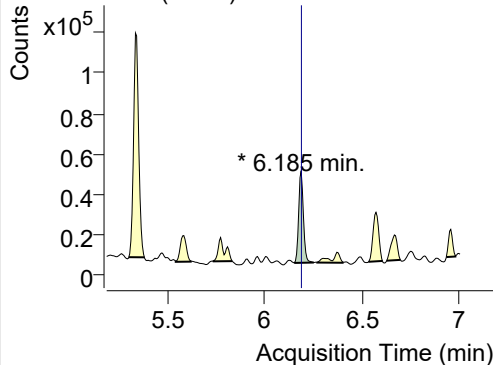


+ SIM (3.096-3.366 min, 51 scans) (**) 220707

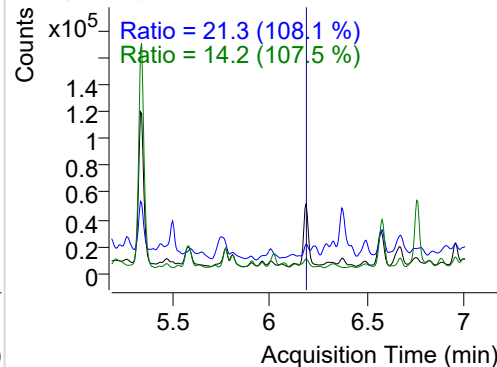


Acenaphthylene

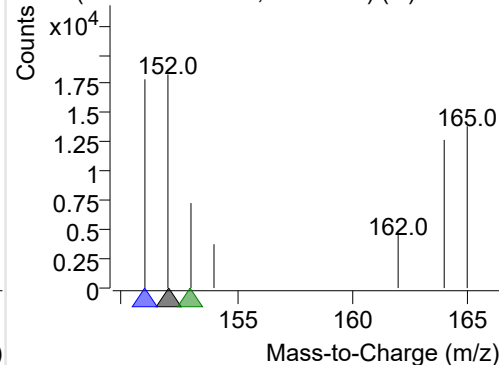
+ Selected Ion (152.0) 220707-PAHs-020.D



152.0, 151.0, 153.0

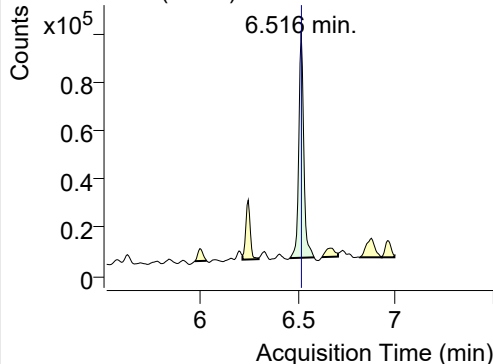


+ SIM (6.149-6.250 min, 18 scans) (**) 220707

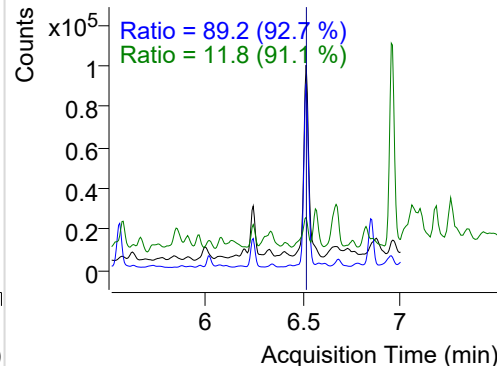


IS-D10-Acenaphthene

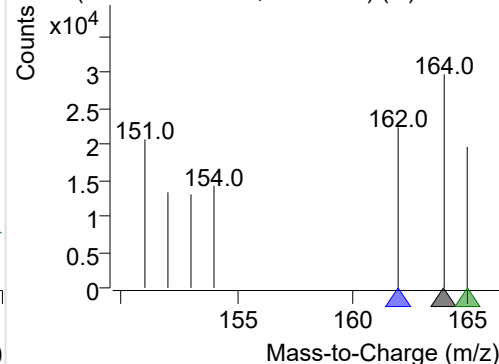
+ Selected Ion (164.0) 220707-PAHs-020.D



164.0, 162.0, 165.0

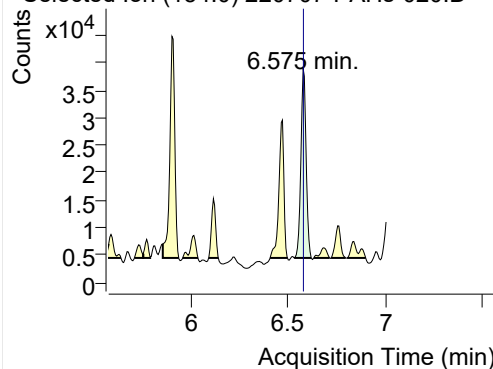


+ SIM (6.463-6.583 min, 21 scans) (**) 220707

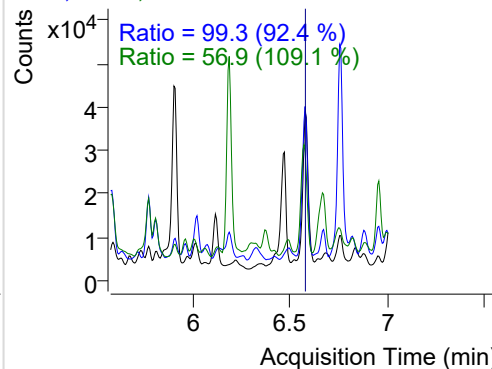


Acenaphthene

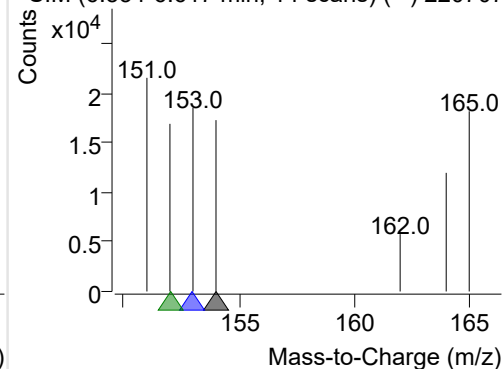
+ Selected Ion (154.0) 220707-PAHs-020.D



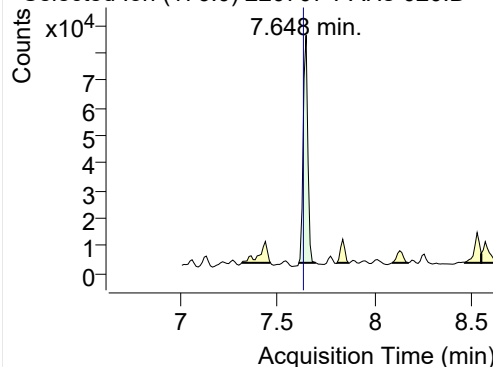
154.0, 153.0, 152.0



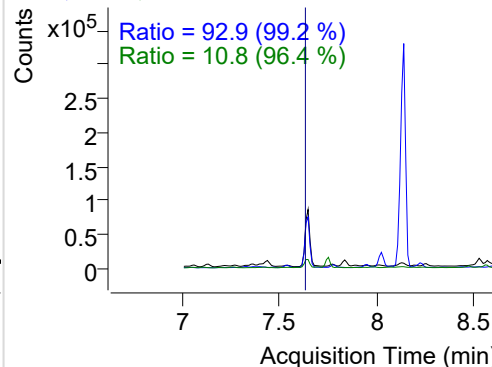
+ SIM (6.534-6.617 min, 14 scans) (**) 220707

**LSS-D10-Fluorene**

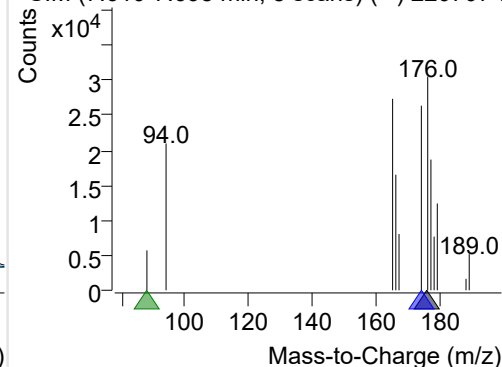
+ Selected Ion (176.0) 220707-PAHs-020.D



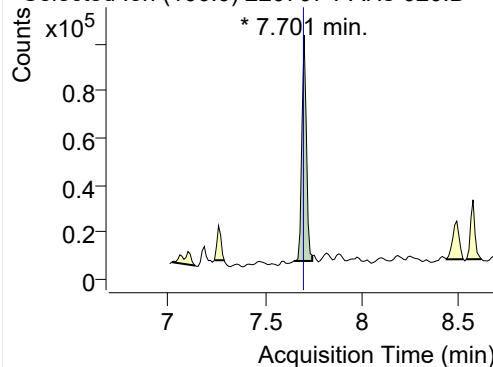
176.0, 174.0, 88.0



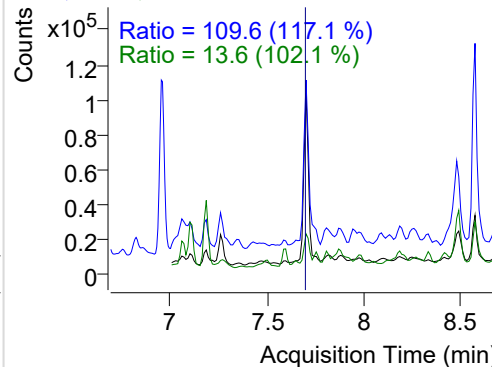
+ SIM (7.610-7.698 min, 8 scans) (**) 220707-I

**Fluorene**

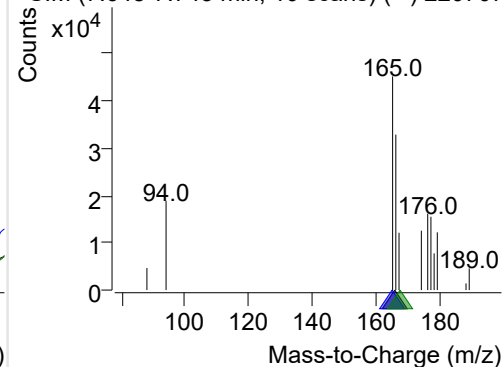
+ Selected Ion (166.0) 220707-PAHs-020.D



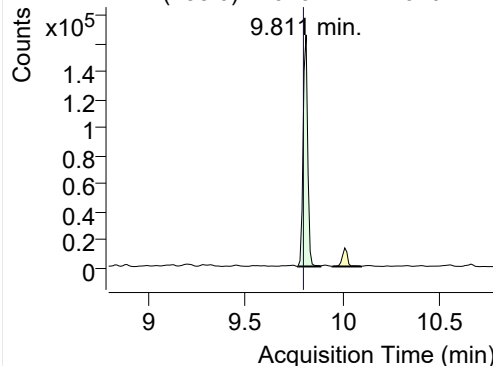
166.0, 165.0, 167.0



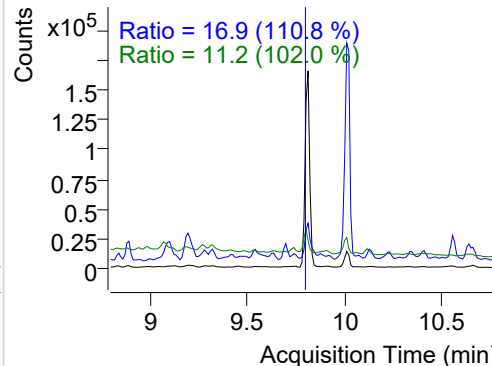
+ SIM (7.648-7.743 min, 10 scans) (**) 220707

**IS-D10-Phenanthrene**

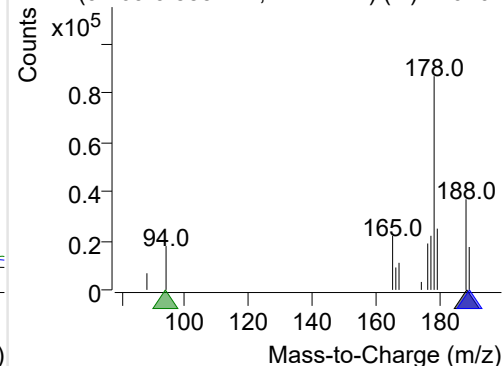
+ Selected Ion (188.0) 220707-PAHs-020.D



188.0, 189.0, 94.0

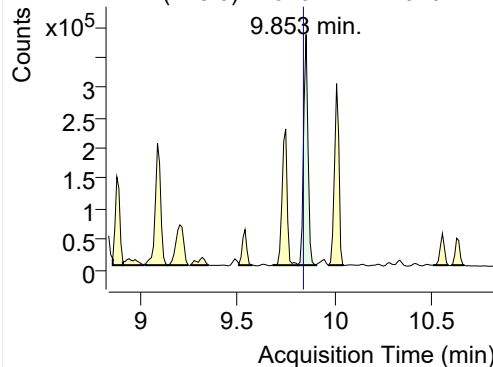


+ SIM (9.769-9.885 min, 12 scans) (**) 220707

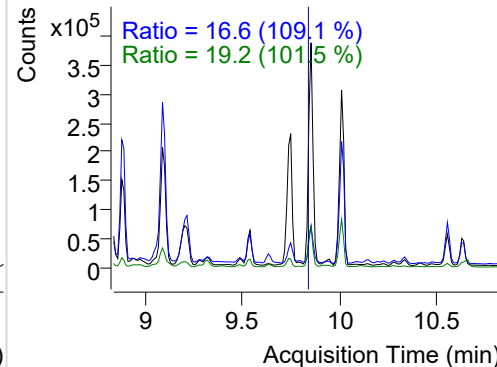


Phenanthrene

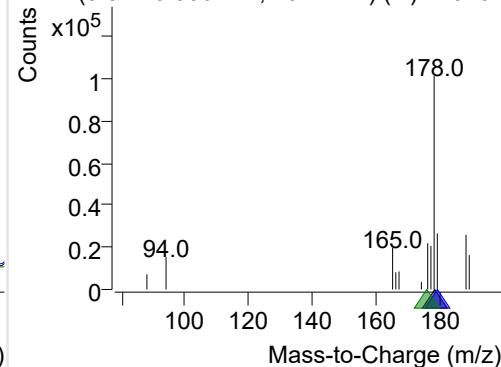
+ Selected Ion (178.0) 220707-PAHs-020.D



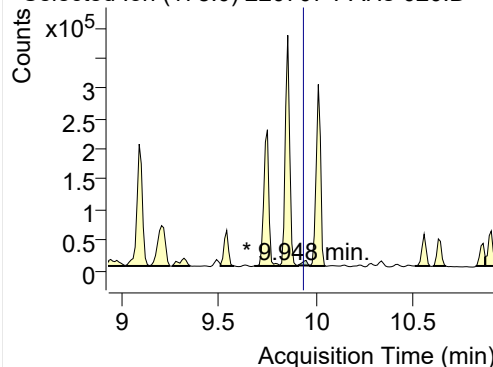
178.0, 179.0, 176.0



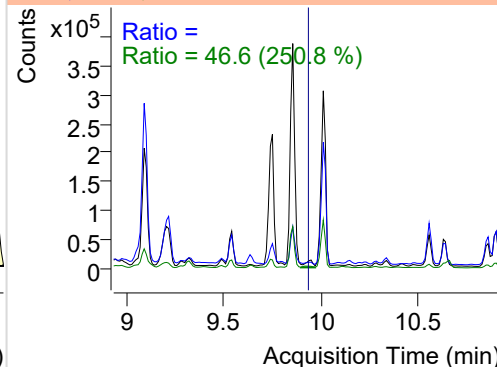
+ SIM (9.811-9.906 min, 10 scans) (**) 220707

**Anthracene**

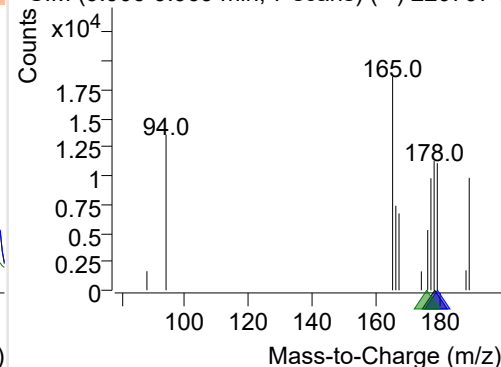
+ Selected Ion (178.0) 220707-PAHs-020.D



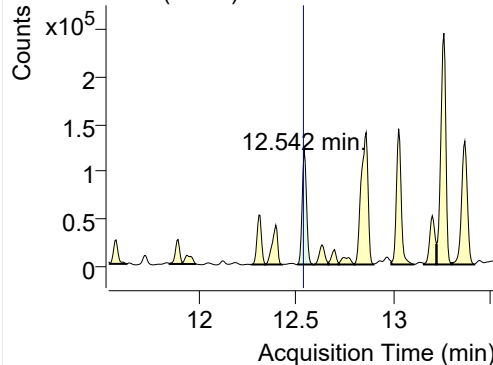
178.0, 179.0, 176.0



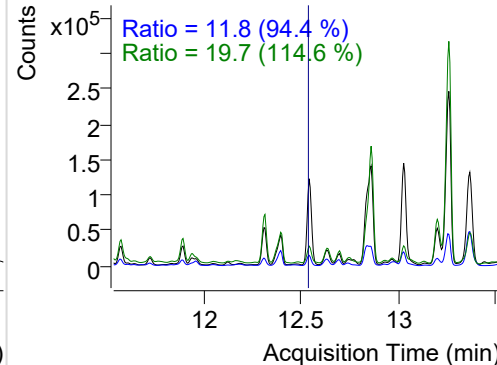
+ SIM (9.906-9.969 min, 7 scans) (**) 220707-I

**Fluoranthene**

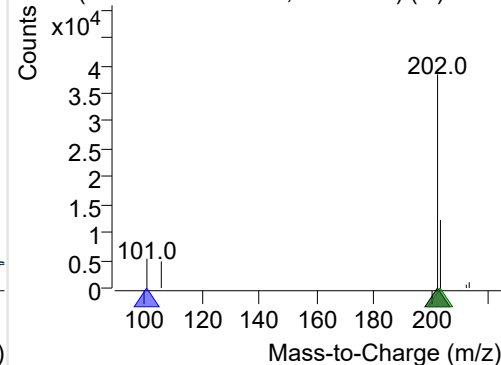
+ Selected Ion (202.0) 220707-PAHs-020.D



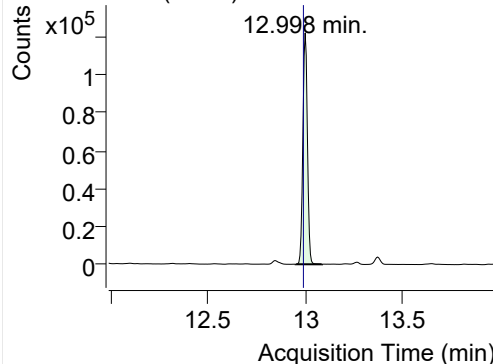
202.0, 101.0, 203.0



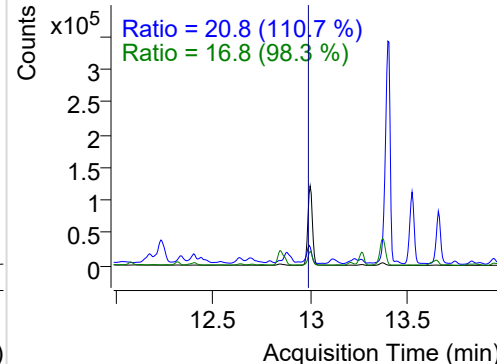
+ SIM (12.507-12.591 min, 16 scans) (**) 2207

**LSS-D10-Pyrene**

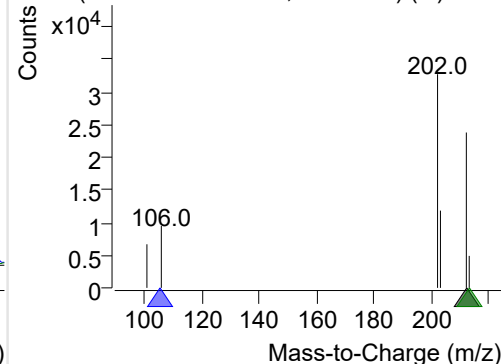
+ Selected Ion (212.0) 220707-PAHs-020.D



212.0, 106.0, 213.0

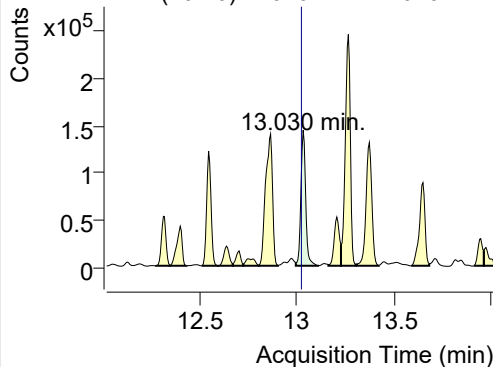


+ SIM (12.949-13.084 min, 26 scans) (**) 2207

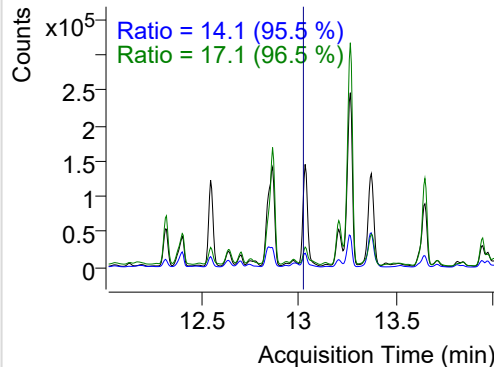


Pyrene

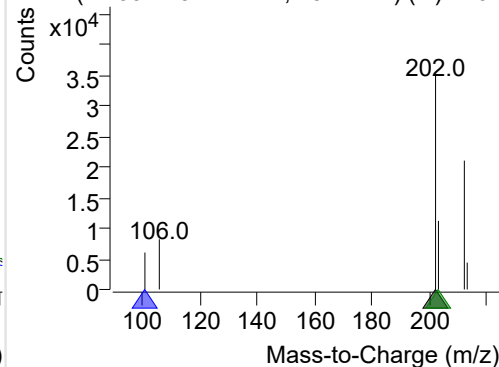
+ Selected Ion (202.0) 220707-PAHs-020.D



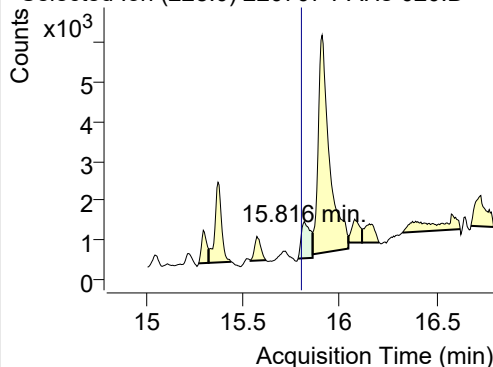
202.0, 101.0, 203.0



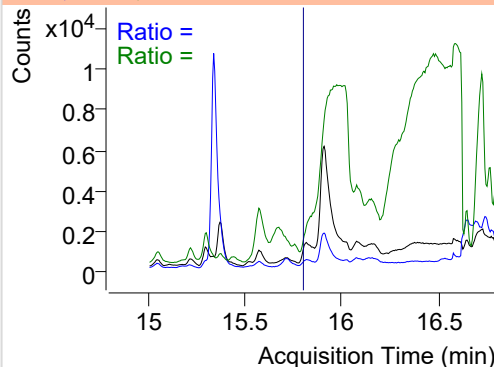
+ SIM (12.992-13.111 min, 23 scans) (**) 2207

**Benz(a)anthracene**

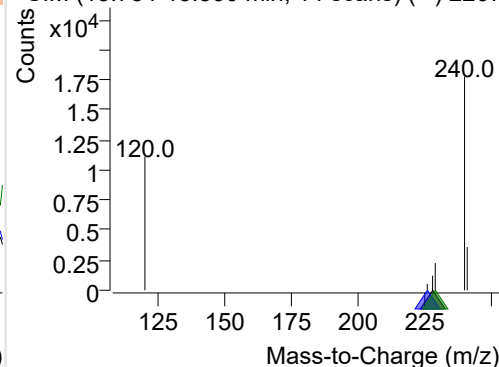
+ Selected Ion (228.0) 220707-PAHs-020.D



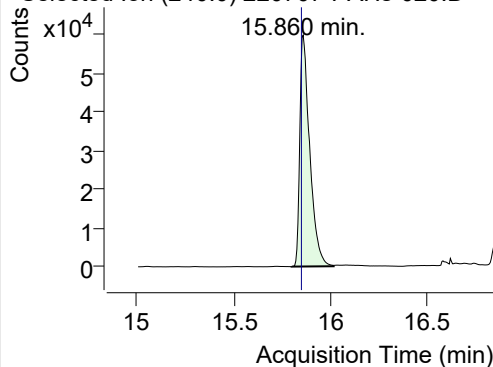
228.0, 226.0, 229.0



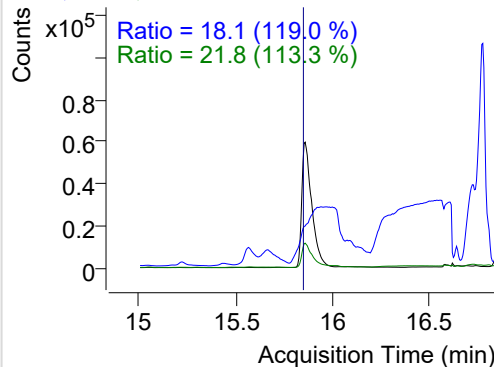
+ SIM (15.784-15.860 min, 14 scans) (**) 2207

**IS-D12-Chrysene**

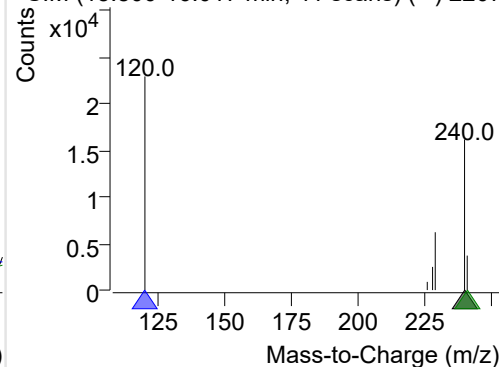
+ Selected Ion (240.0) 220707-PAHs-020.D



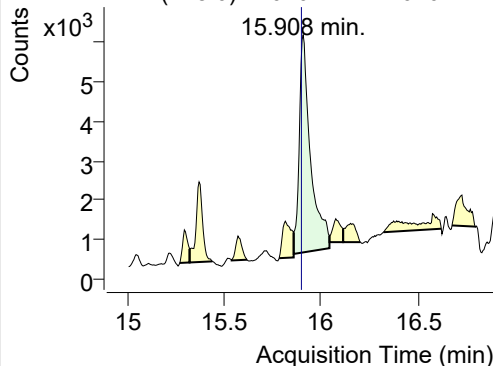
240.0, 120.0, 241.0



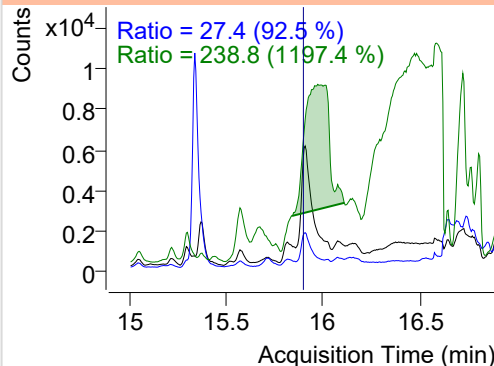
+ SIM (15.800-16.017 min, 41 scans) (**) 2207

**Chrysene**

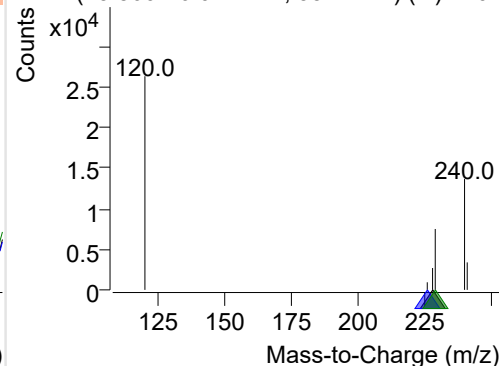
+ Selected Ion (228.0) 220707-PAHs-020.D



228.0, 226.0, 229.0



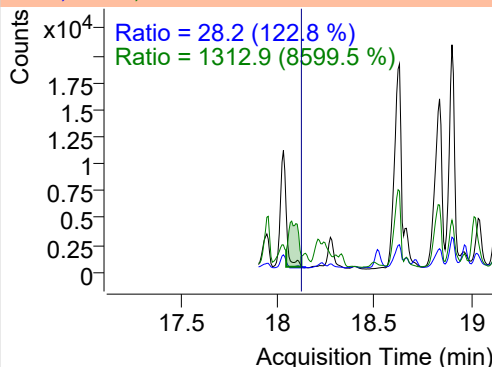
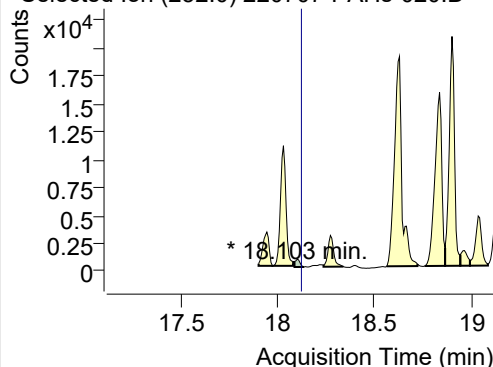
+ SIM (15.860-16.044 min, 35 scans) (**) 2207



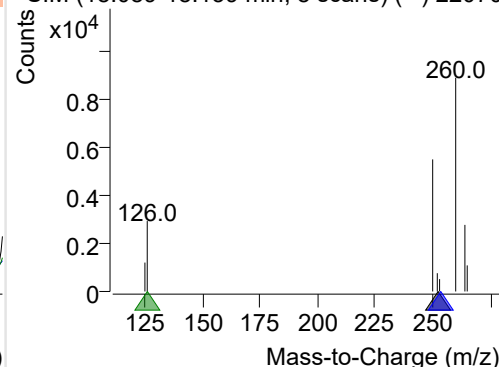
Benzo(b)fluoranthene

+ Selected Ion (252.0) 220707-PAHs-020.D

252.0, 253.0, 126.0

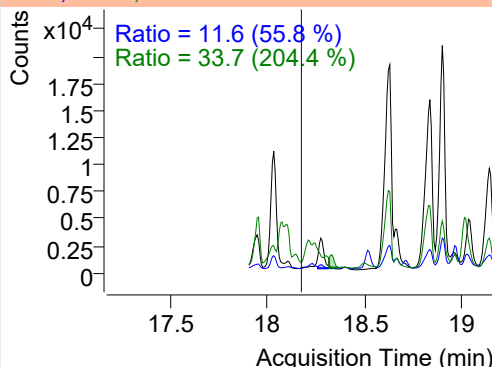
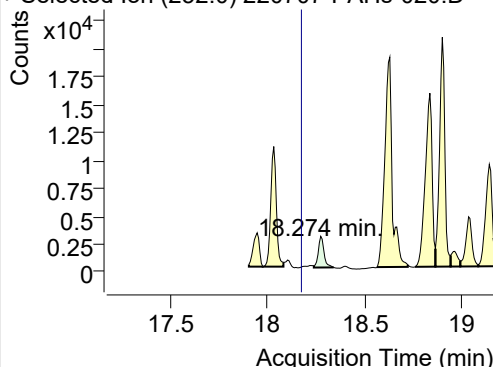


+ SIM (18.089-18.139 min, 8 scans) (**) 22070

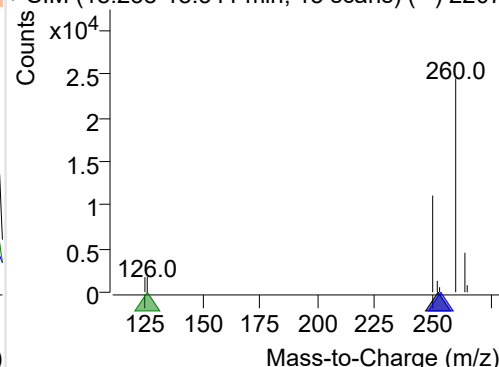
**Benzo(k)fluoranthene**

+ Selected Ion (252.0) 220707-PAHs-020.D

252.0, 253.0, 126.0

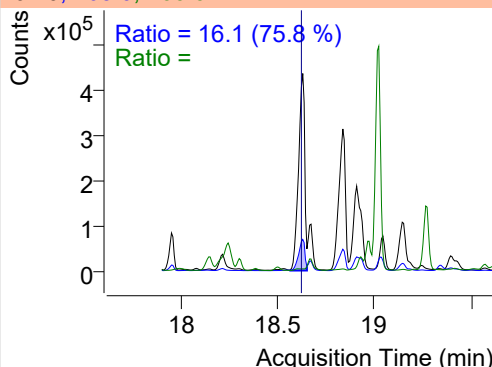
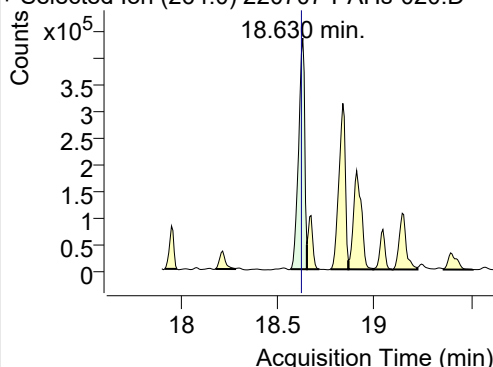


+ SIM (18.238-18.341 min, 15 scans) (**) 2207

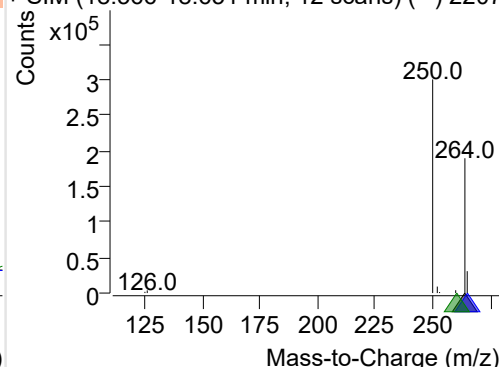
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 220707-PAHs-020.D

264.0, 265.0, 260.0

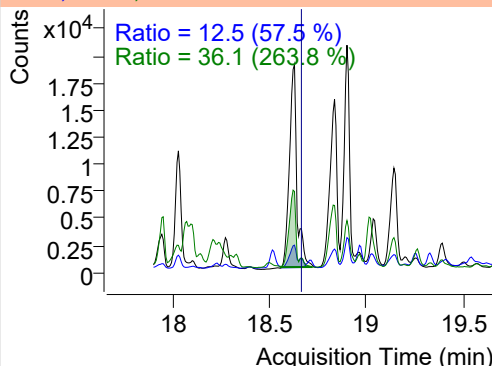
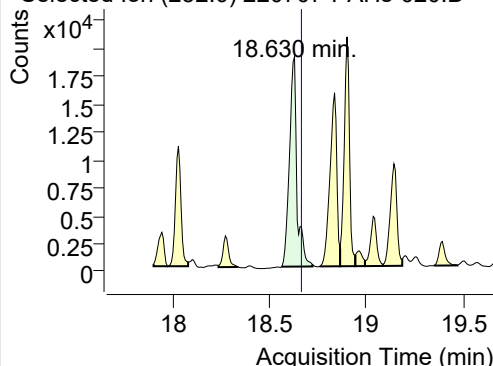


+ SIM (18.566-18.651 min, 12 scans) (**) 2207

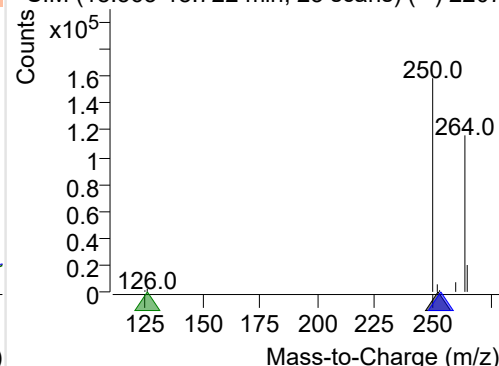
**Benzo(e)pyrene**

+ Selected Ion (252.0) 220707-PAHs-020.D

252.0, 253.0, 126.0



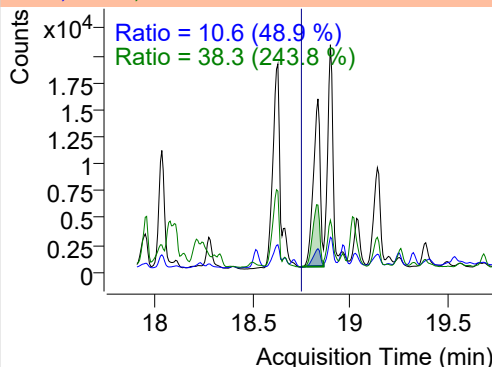
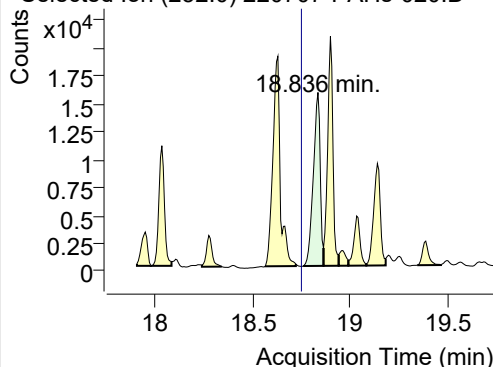
+ SIM (18.563-18.722 min, 23 scans) (**) 2207



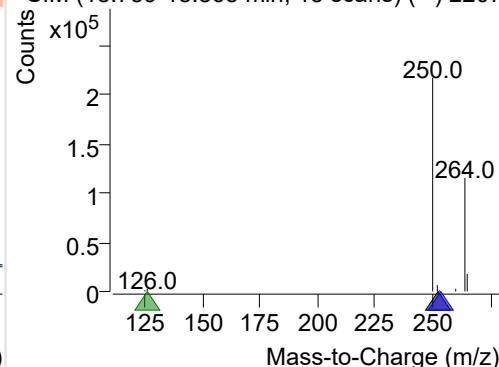
Benzo(a)pyrene

+ Selected Ion (252.0) 220707-PAHs-020.D

252.0, 253.0, 126.0

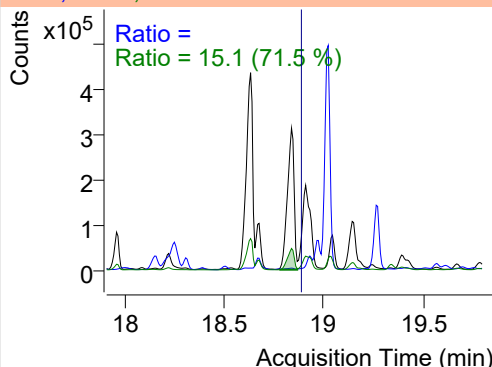
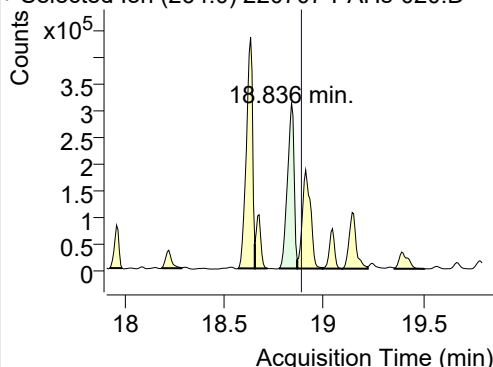


+ SIM (18.759-18.865 min, 15 scans) (**) 2207

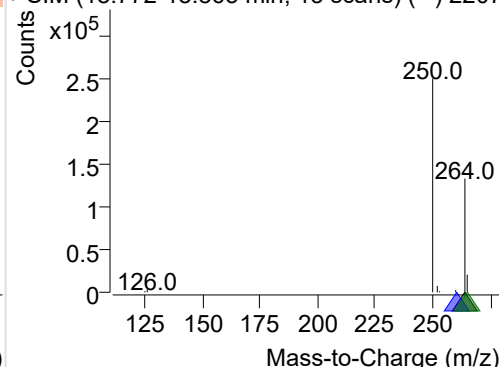
**IS-D12-Perylene**

+ Selected Ion (264.0) 220707-PAHs-020.D

264.0, 260.0, 265.0

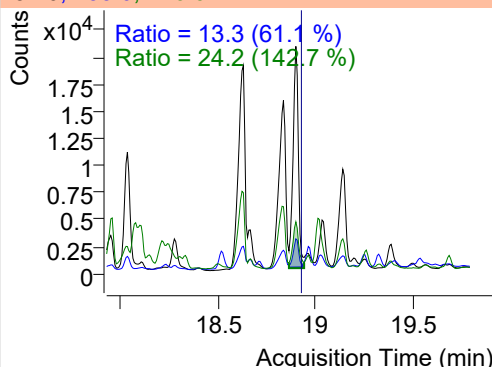
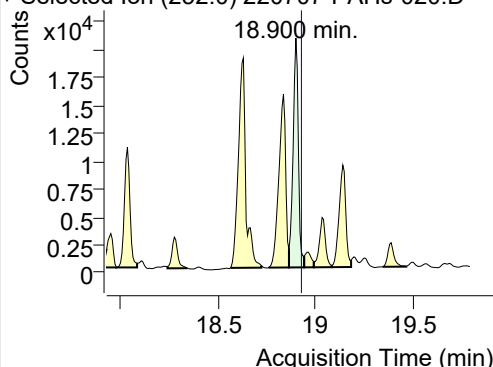


+ SIM (18.772-18.865 min, 13 scans) (**) 2207

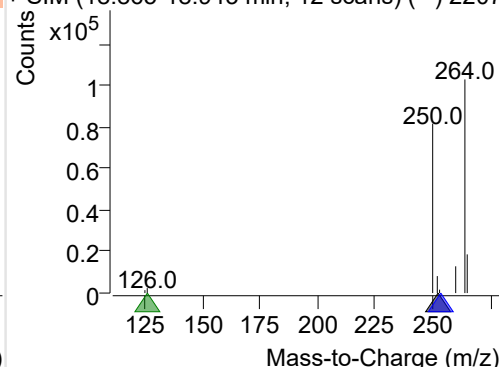
**Perylene**

+ Selected Ion (252.0) 220707-PAHs-020.D

252.0, 253.0, 126.0

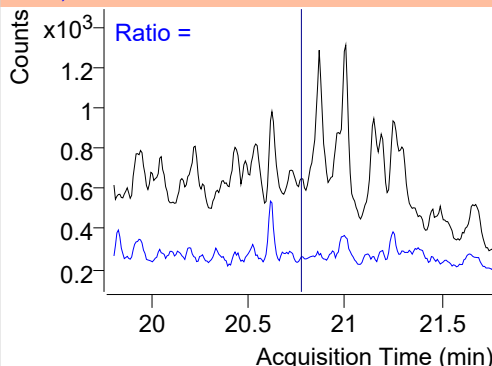
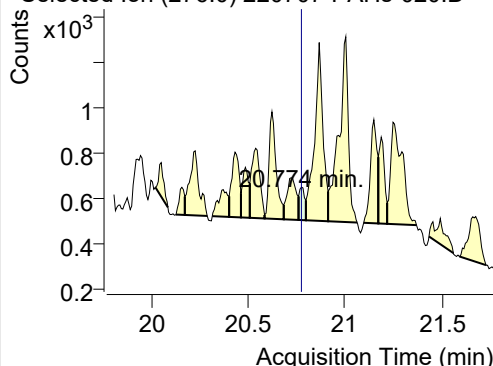


+ SIM (18.865-18.943 min, 12 scans) (**) 2207

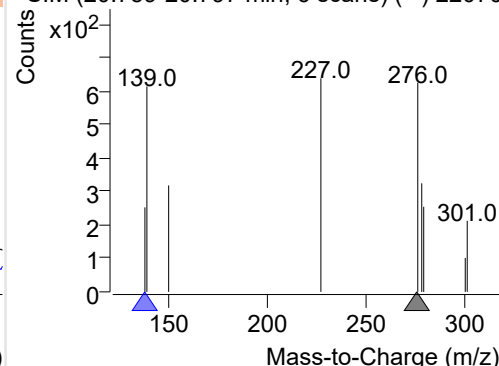
**Indeno(1,2,3-c,d)pyrene**

+ Selected Ion (276.0) 220707-PAHs-020.D

276.0, 138.0



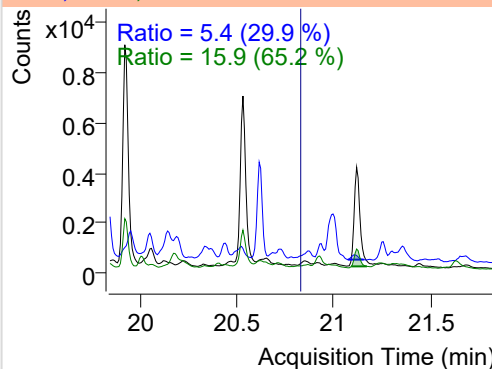
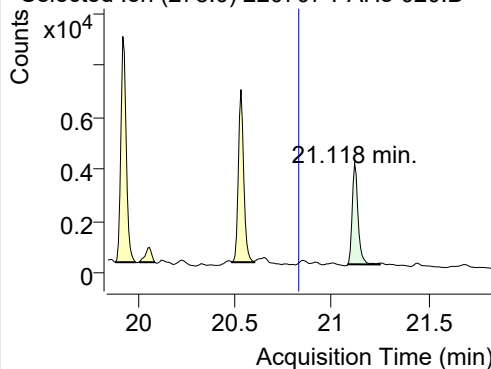
+ SIM (20.759-20.797 min, 6 scans) (**) 22070



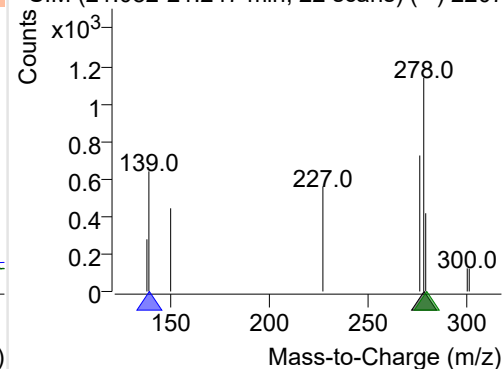
Dibenz(a,h)anthracene

+ Selected Ion (278.0) 220707-PAHs-020.D

278.0, 139.0, 279.0

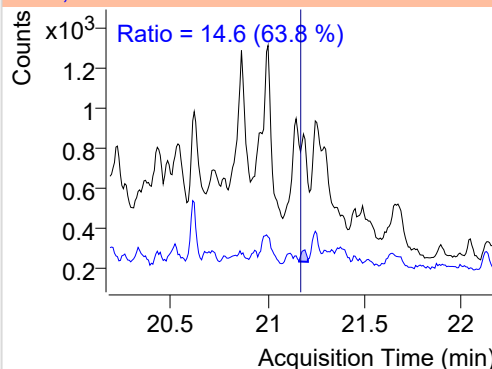
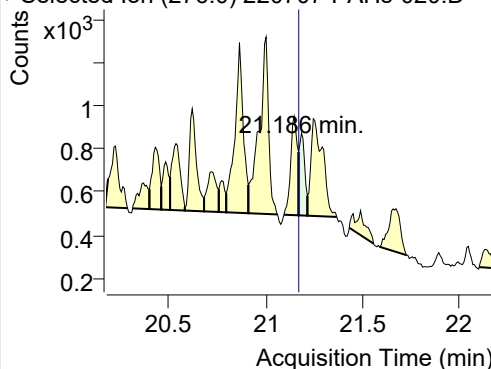


+ SIM (21.082-21.247 min, 22 scans) (**) 2207

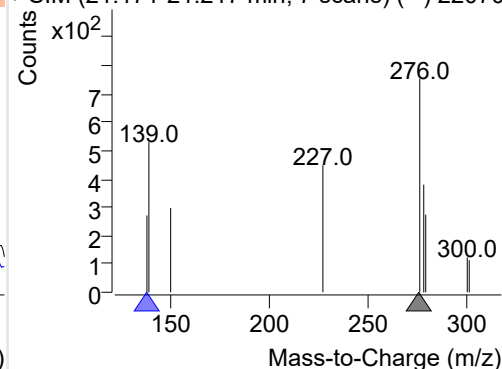
**Benzo(g,h,i)perylene**

+ Selected Ion (276.0) 220707-PAHs-020.D

276.0, 138.0

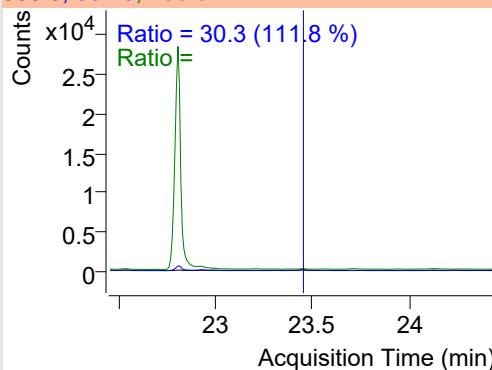
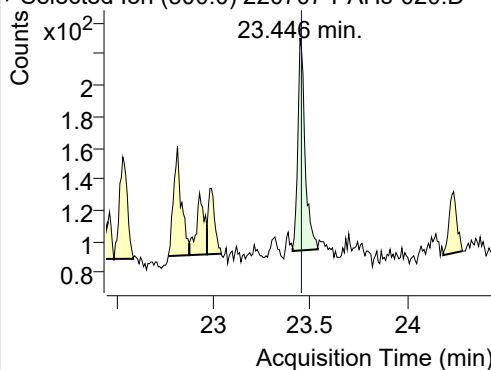


+ SIM (21.171-21.217 min, 7 scans) (**) 22070

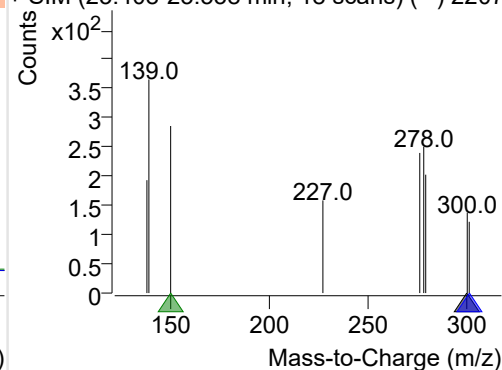
**Coronene**

+ Selected Ion (300.0) 220707-PAHs-020.D

300.0, 301.0, 150.0



+ SIM (23.408-23.538 min, 18 scans) (**) 2207



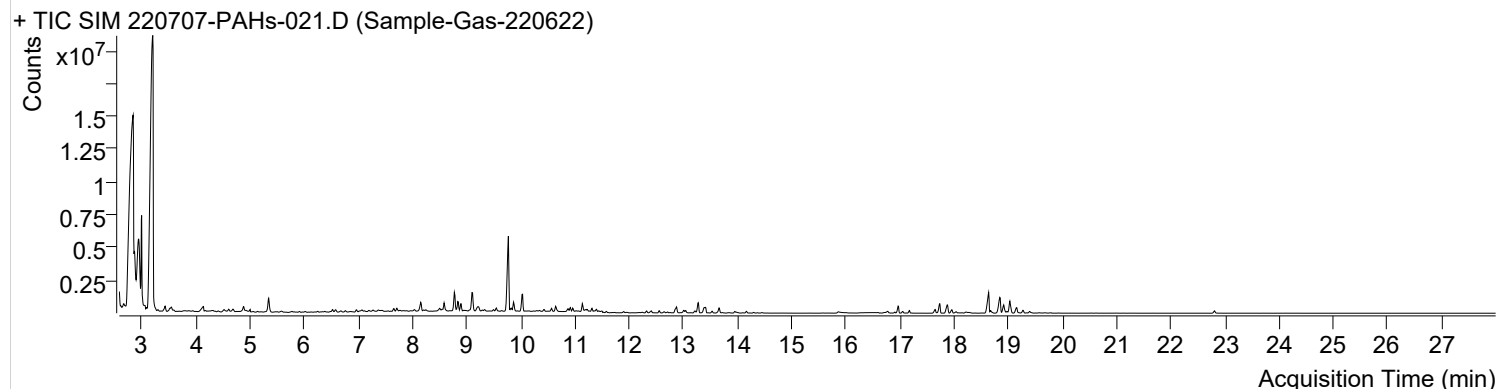
Quantitative Analysis Sample Based Report



Trusted Answers

| | | | |
|---------------------------|--|-----------------------|------------------------|
| Batch Data Path File Name | D:\MassHunter\GCMS\1\data\PAHs\220707-PAHs-Sample\QuantResults\220707-PAHs-Quant.batch.bin | | |
| Analysis Time Stamp | 2022-07-09 오전 11:12:52 | Analyst Name | DESKTOP-86B7UPG\5975MS |
| Report Generation Time | 2022-07-09 오전 11:13:20 | Report Generator Name | DESKTOP-86B7UPG\5975MS |
| Calibration Last Update | 2022-07-09 오전 11:04:15 | Batch State | Processed |
| Analyze Quant Version | 10.2 | Report Quant Version | 10.2 |
| Acq. Date-Time | 2022-07-07 오후 11:41:47 | Data File | 220707-PAHs-021.D |
| Type | Sample | Name | Sample-Gas-220622 |
| Dil. | 1 | Acq. Method File | PAHs 19mix-Method |

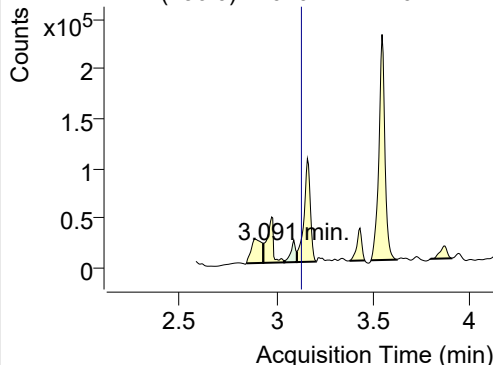
Sample Chromatogram



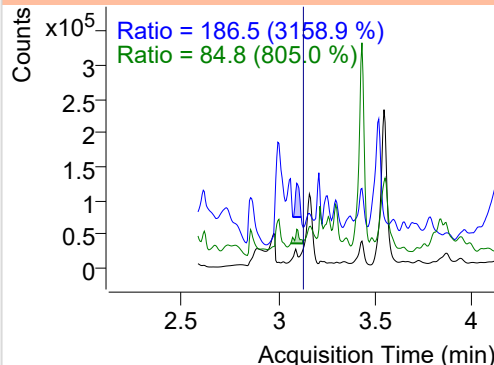
| Name | RT | Transition | Resp. | Height | Final Conc. Units | Ratio |
|-------------------------|--------|------------|----------|------------|-------------------|-------|
| IS-D8-Naphthalene | 3.091 | 136.0 | 37975 | 22355.45 | ND ng/ml | 84.8 |
| Naphthalene | 3.179 | 128.0 | 41768878 | 8374918.46 | ND ng/ml | 25.5 |
| Acenaphthylene | 6.191 | 152.0 | 28145 | 14879.73 | ND ng/ml | 20.2 |
| IS-D10-Acenaphthene | 6.522 | 164.0 | 176149 | 89338.00 | ND ng/ml | 89.4 |
| Acenaphthene | 6.587 | 154.0 | 93471 | 46807.79 | ND ng/ml | 107.3 |
| LSS-D10-Fluorene | 7.659 | 176.0 | 140667 | 80489.81 | ND ng/ml | 96.2 |
| Fluorene | 7.711 | 166.0 | 201304 | 109489.22 | ND ng/ml | 92.8 |
| IS-D10-Phenanthrene | 9.822 | 188.0 | 282852 | 172147.18 | ND ng/ml | 18.1 |
| Phenanthrene | 9.864 | 178.0 | 737395 | 422059.29 | ND ng/ml | 19.3 |
| Anthracene | 9.937 | 178.0 | 6598 | 5020.15 | ND ng/ml | |
| Fluoranthene | 12.553 | 202.0 | 200955 | 125898.55 | ND ng/ml | 19.0 |
| LSS-D10-Pyrene | 13.009 | 212.0 | 218741 | 132270.54 | ND ng/ml | 32.3 |
| Pyrene | 13.041 | 202.0 | 245171 | 138986.55 | ND ng/ml | 20.7 |
| Benz(a)anthracene | 15.724 | 228.0 | 1454 | 387.32 | ND ng/ml | 107.6 |
| IS-D12-Chrysene | 15.865 | 240.0 | 216706 | 66925.24 | ND ng/ml | 21.4 |
| Chrysene | 15.909 | 228.0 | 13198 | 3465.17 | ND ng/ml | 27.8 |
| Benzo(b)fluoranthene | 18.110 | 252.0 | 1651 | 953.11 | ND ng/ml | |
| Benzo(k)fluoranthene | 18.281 | 252.0 | 5491 | 3230.41 | ND ng/ml | 16.7 |
| SS-D12-Benzo(e)pyrene | 18.637 | 264.0 | 1271249 | 538506.69 | ND ng/ml | |
| Benzo(e)pyrene | 18.637 | 252.0 | 53866 | 22854.38 | ND ng/ml | 10.5 |
| Benzo(a)pyrene | 18.701 | 252.0 | 76465 | 40554.20 | ND ng/ml | 21.8 |
| IS-D12-Perylene | 18.851 | 264.0 | 975175 | 368202.69 | ND ng/ml | |
| Perylene | 18.915 | 252.0 | 49812 | 25638.93 | ND ng/ml | 13.0 |
| Indeno(1,2,3-c,d)pyrene | 20.728 | 276.0 | 805 | 261.49 | ND ng/ml | 26.6 |
| Dibenz(a,h)anthracene | 20.652 | 278.0 | 1068 | 306.18 | ND ng/ml | 85.7 |
| Benzo(g,h,i)perylene | 21.148 | 276.0 | 1861 | 653.99 | ND ng/ml | 7.9 |
| Coronene | 23.454 | 300.0 | 306 | 125.42 | ND ng/ml | |

IS-D8-Naphthalene

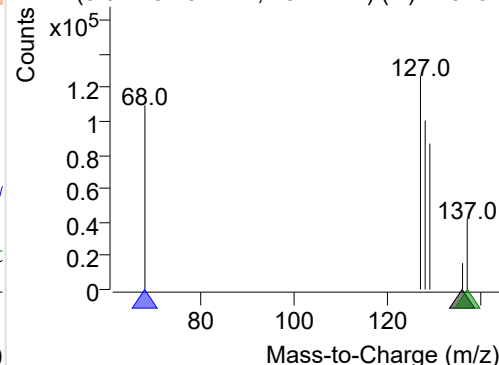
+ Selected Ion (136.0) 220707-PAHs-021.D



136.0, 68.0, 137.0

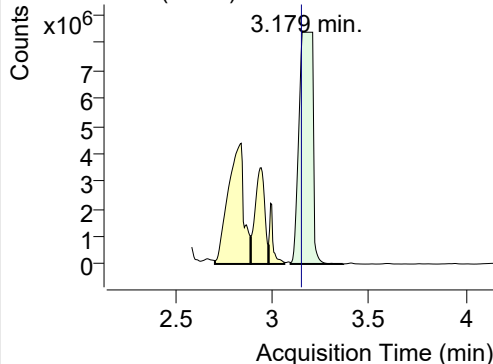


+ SIM (3.042-3.107 min, 13 scans) (**) 220707

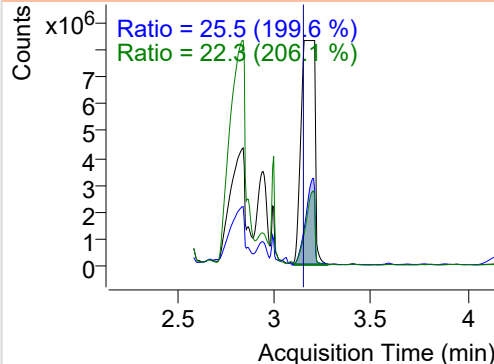


Naphthalene

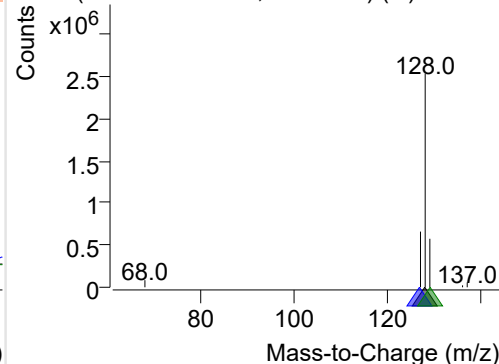
+ Selected Ion (128.0) 220707-PAHs-021.D



128.0, 127.0, 129.0

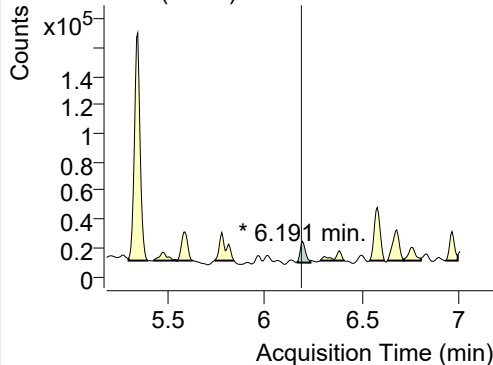


+ SIM (3.096-3.367 min, 51 scans) (**) 220707

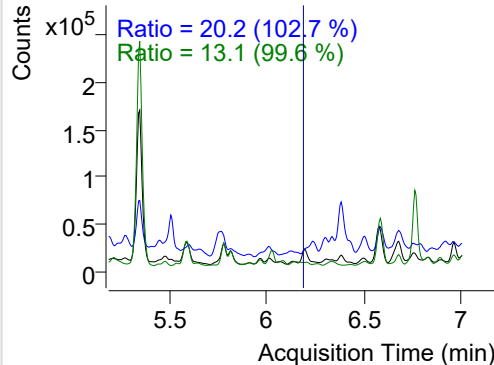


Acenaphthylene

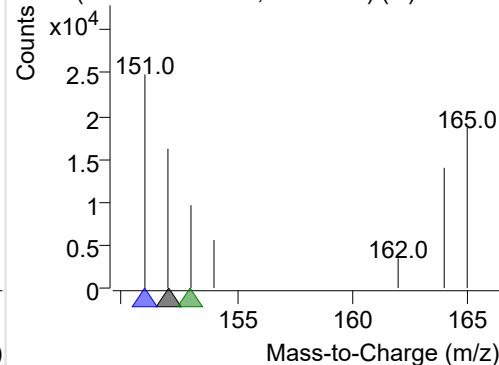
+ Selected Ion (152.0) 220707-PAHs-021.D



152.0, 151.0, 153.0

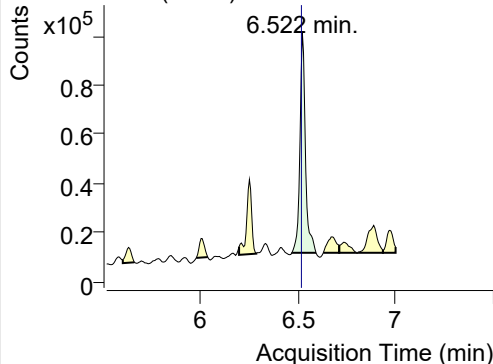


+ SIM (6.167-6.232 min, 12 scans) (**) 220707

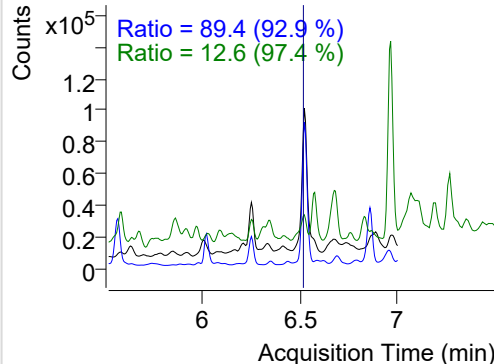


IS-D10-Acenaphthene

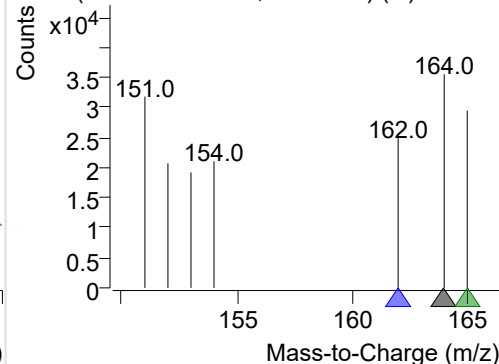
+ Selected Ion (164.0) 220707-PAHs-021.D



164.0, 162.0, 165.0

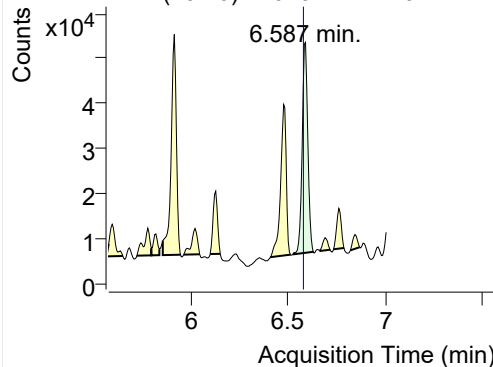


+ SIM (6.469-6.593 min, 21 scans) (**) 220707

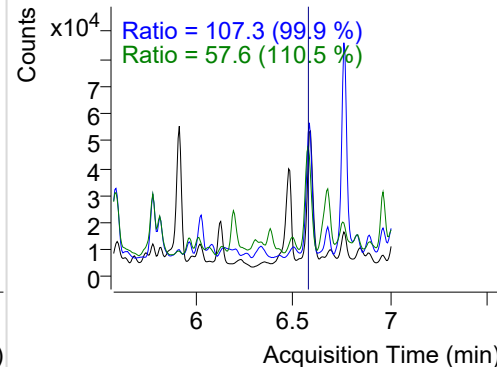


Acenaphthene

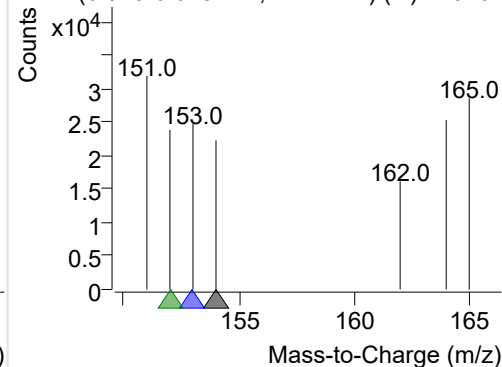
+ Selected Ion (154.0) 220707-PAHs-021.D



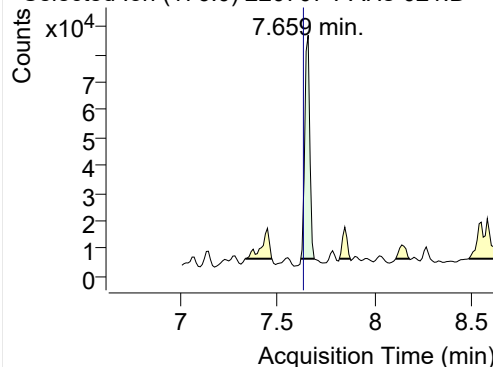
154.0, 153.0, 152.0



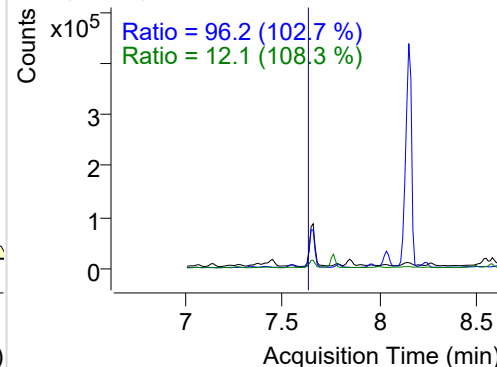
+ SIM (6.528-6.628 min, 17 scans) (**) 220707

**LSS-D10-Fluorene**

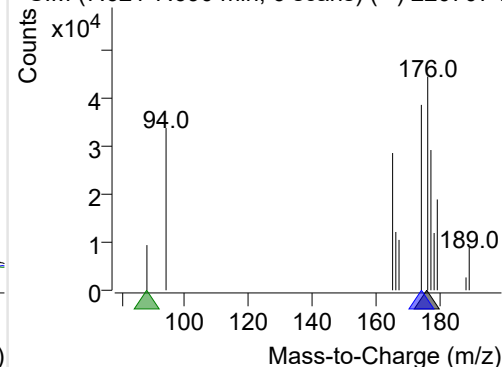
+ Selected Ion (176.0) 220707-PAHs-021.D



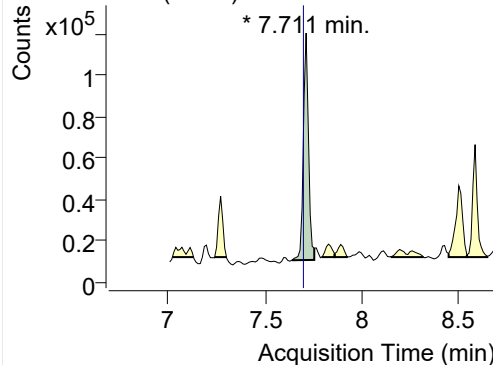
176.0, 174.0, 88.0



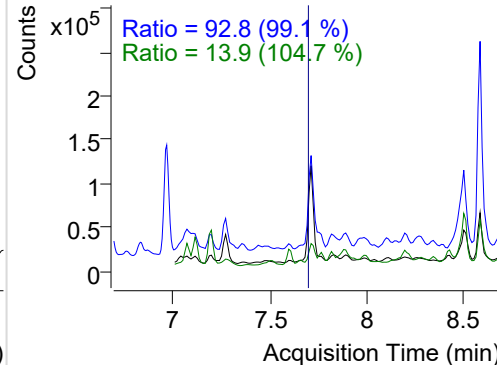
+ SIM (7.621-7.690 min, 6 scans) (**) 220707-I

**Fluorene**

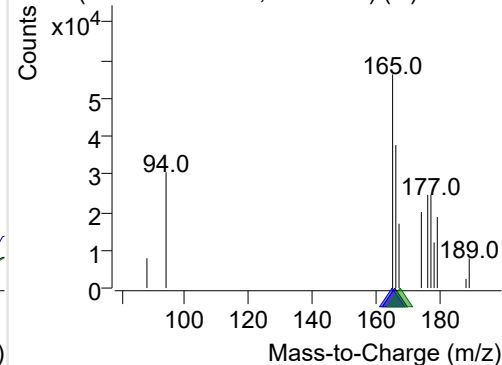
+ Selected Ion (166.0) 220707-PAHs-021.D



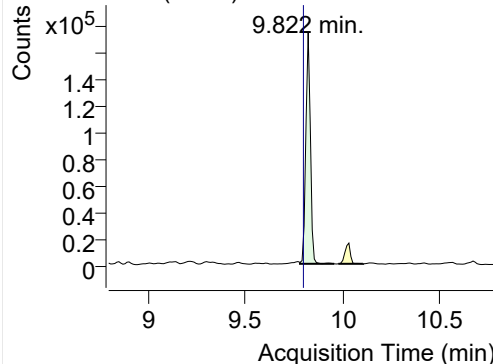
166.0, 165.0, 167.0



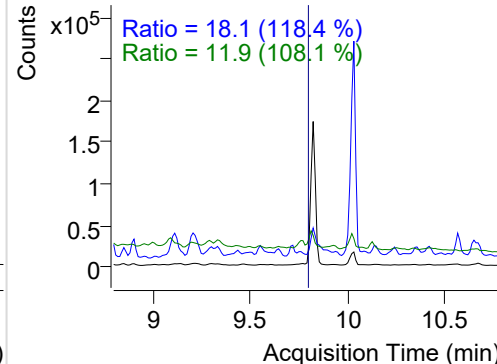
+ SIM (7.638-7.753 min, 12 scans) (**) 220707

**IS-D10-Phenanthrene**

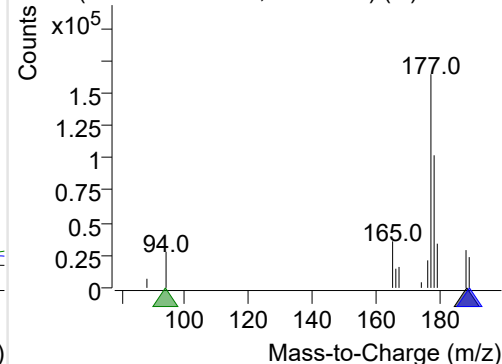
+ Selected Ion (188.0) 220707-PAHs-021.D



188.0, 189.0, 94.0

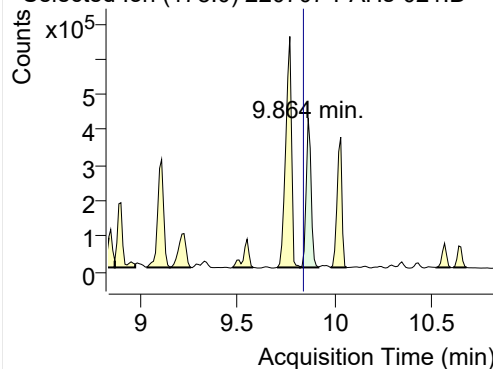


+ SIM (9.780-9.956 min, 17 scans) (**) 220707

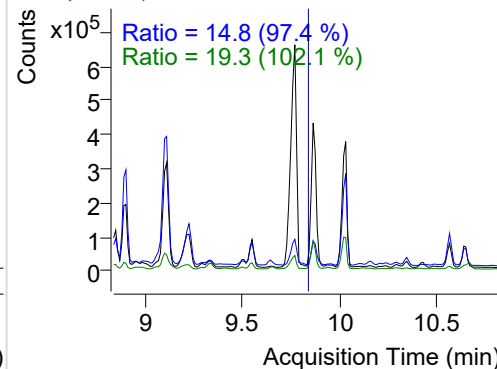


Phenanthrene

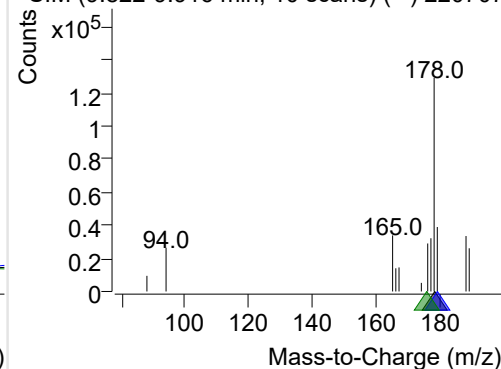
+ Selected Ion (178.0) 220707-PAHs-021.D



178.0, 179.0, 176.0

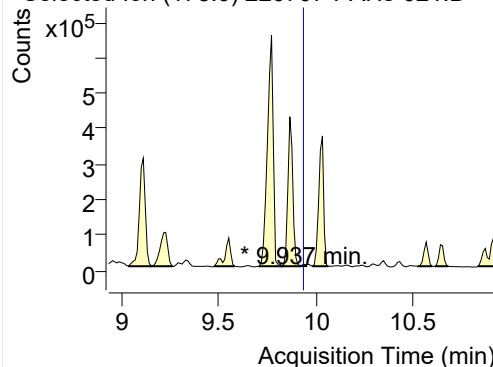


+ SIM (9.822-9.916 min, 10 scans) (**) 220707

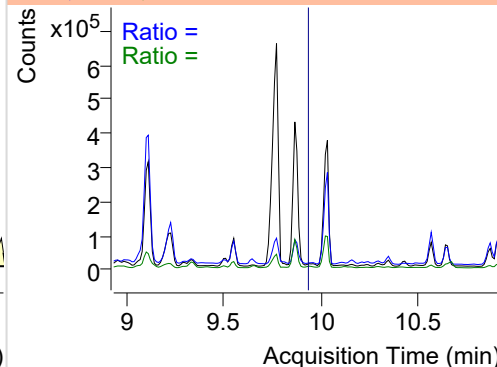


Anthracene

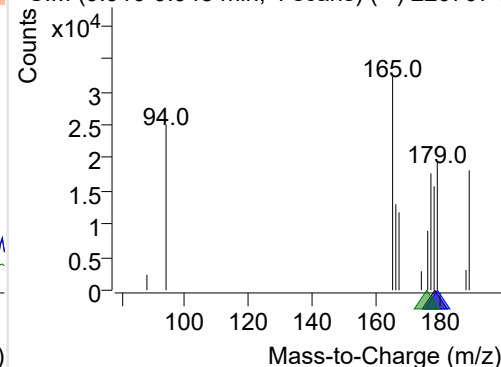
+ Selected Ion (178.0) 220707-PAHs-021.D



178.0, 179.0, 176.0

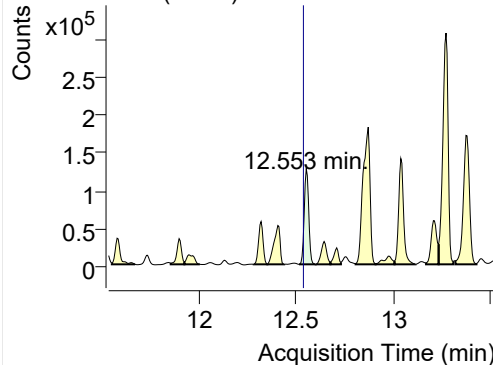


+ SIM (9.916-9.948 min, 4 scans) (**) 220707-I

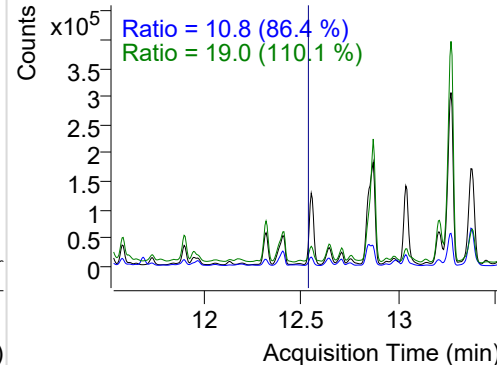


Fluoranthene

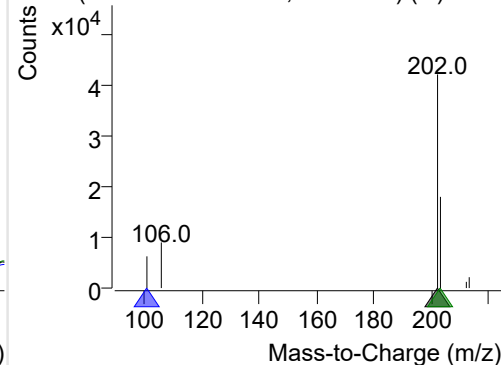
+ Selected Ion (202.0) 220707-PAHs-021.D



202.0, 101.0, 203.0

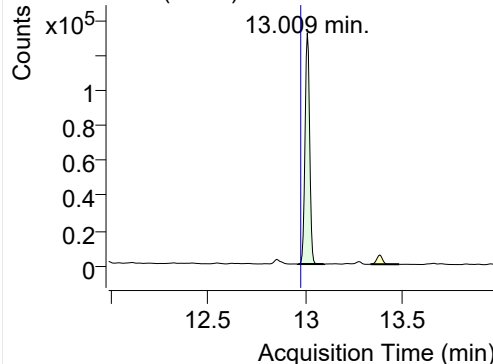


+ SIM (12.516-12.602 min, 16 scans) (**) 2207

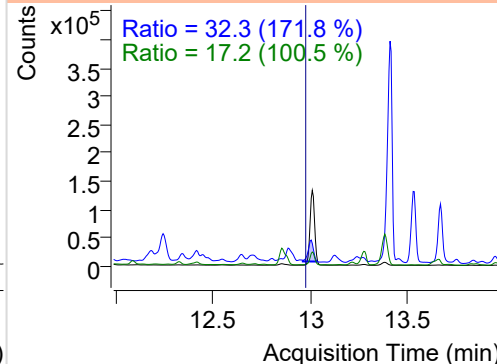


LSS-D10-Pyrene

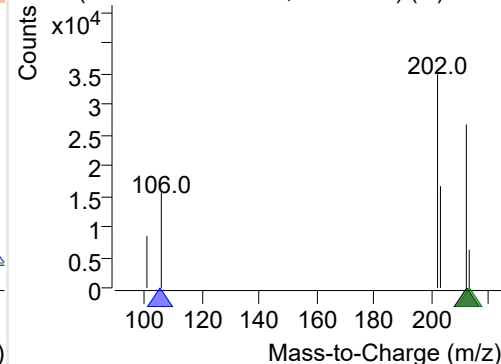
+ Selected Ion (212.0) 220707-PAHs-021.D



212.0, 106.0, 213.0

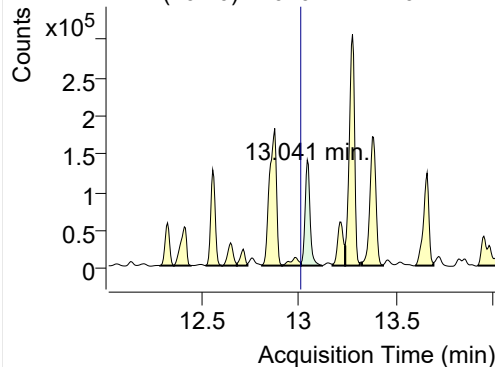


+ SIM (12.960-13.095 min, 26 scans) (**) 2207

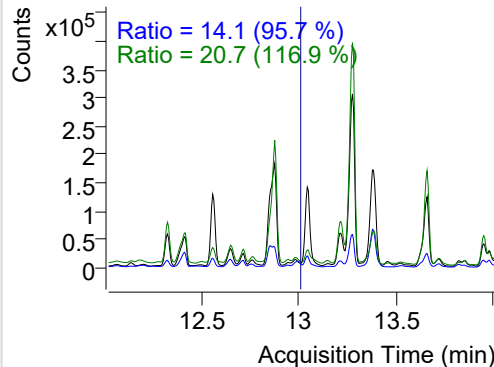


Pyrene

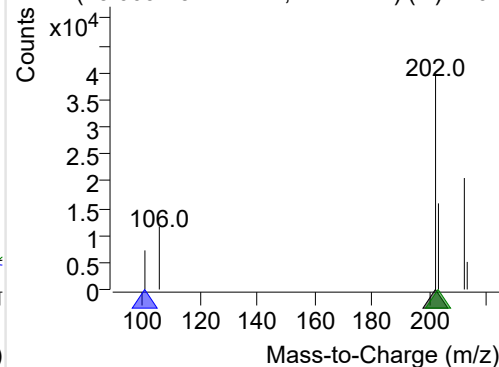
+ Selected Ion (202.0) 220707-PAHs-021.D



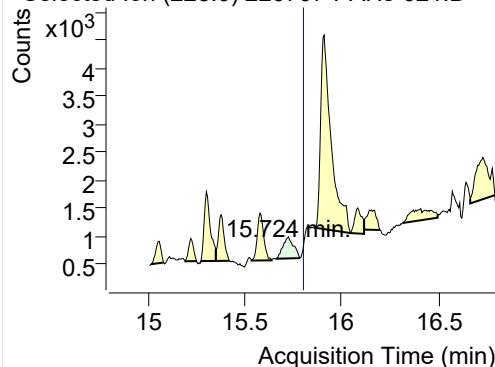
202.0, 101.0, 203.0



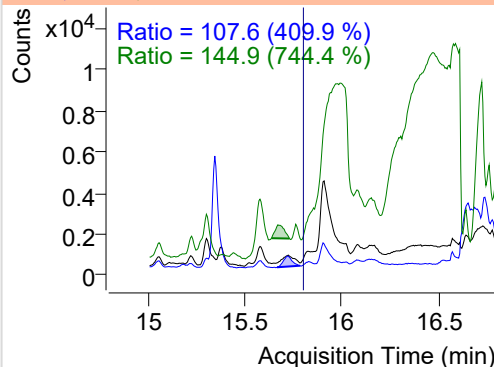
+ SIM (13.009-13.117 min, 21 scans) (**) 2207

**Benz(a)anthracene**

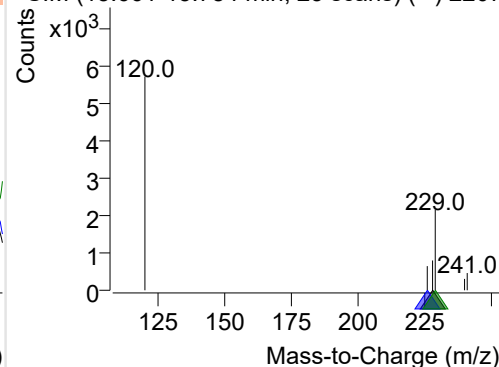
+ Selected Ion (228.0) 220707-PAHs-021.D



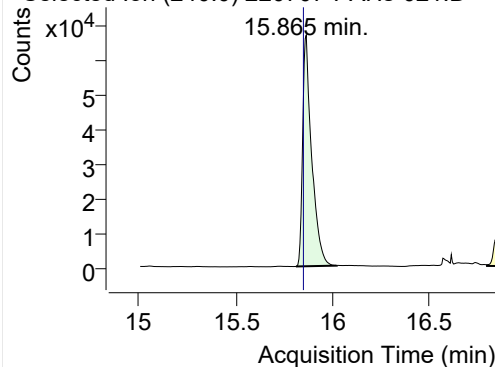
228.0, 226.0, 229.0



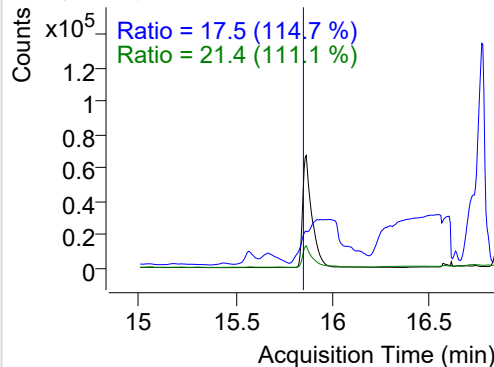
+ SIM (15.661-15.784 min, 23 scans) (**) 2207

**IS-D12-Chrysene**

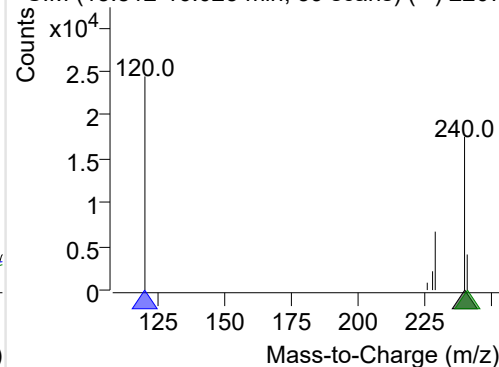
+ Selected Ion (240.0) 220707-PAHs-021.D



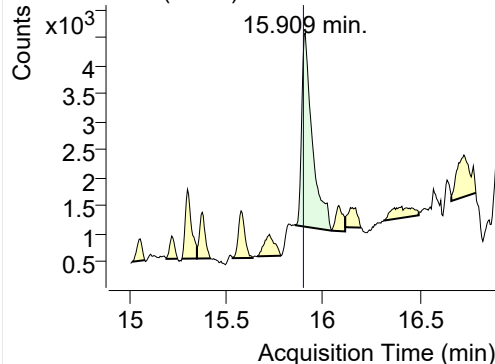
240.0, 120.0, 241.0



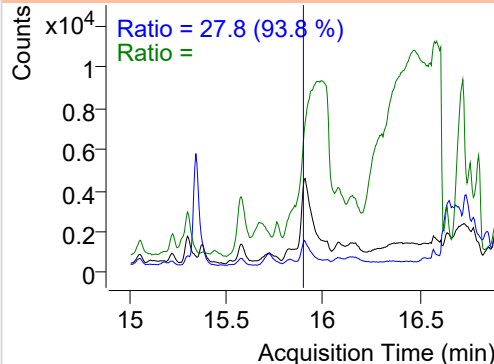
+ SIM (15.812-16.023 min, 39 scans) (**) 2207

**Chrysene**

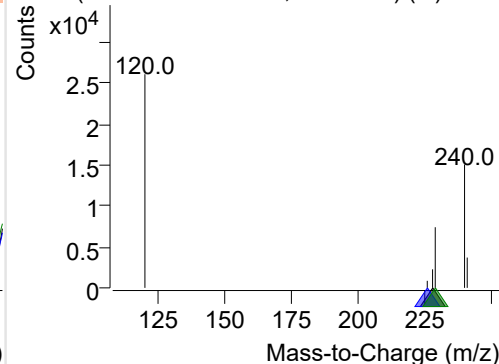
+ Selected Ion (228.0) 220707-PAHs-021.D



228.0, 226.0, 229.0



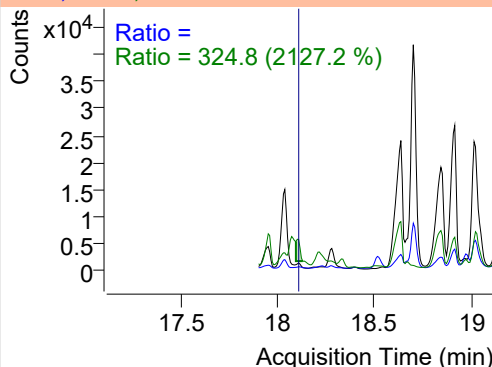
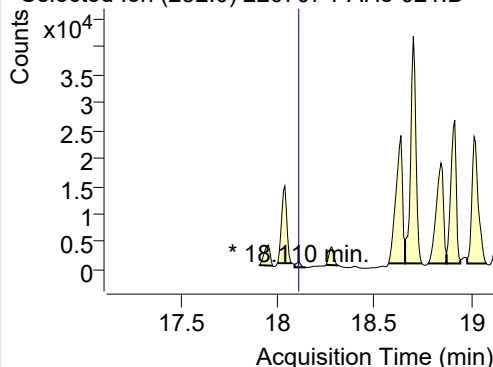
+ SIM (15.860-16.044 min, 35 scans) (**) 2207



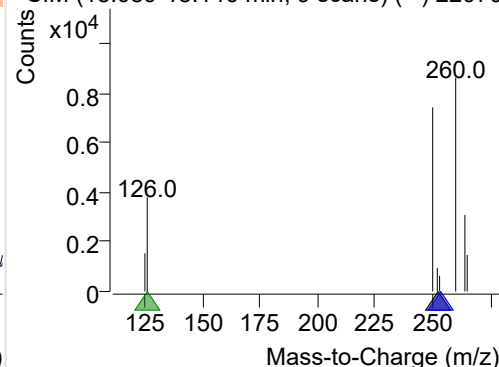
Benzo(b)fluoranthene

+ Selected Ion (252.0) 220707-PAHs-021.D

252.0, 253.0, 126.0

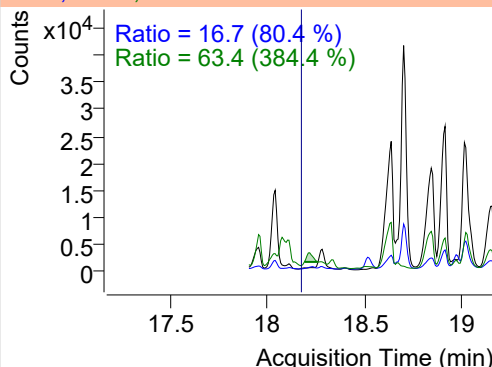
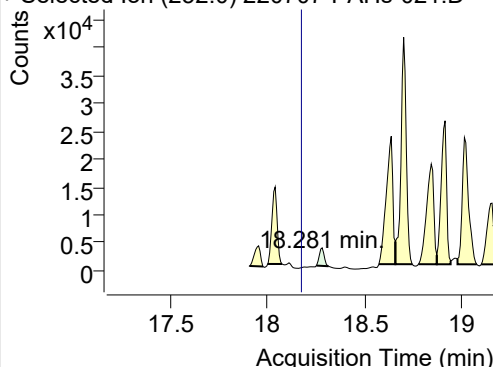


+ SIM (18.089-18.146 min, 9 scans) (**) 22070

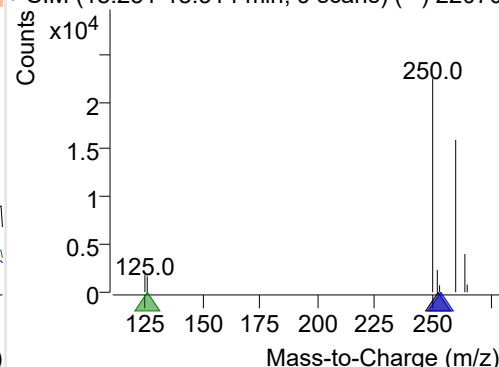
**Benzo(k)fluoranthene**

+ Selected Ion (252.0) 220707-PAHs-021.D

252.0, 253.0, 126.0

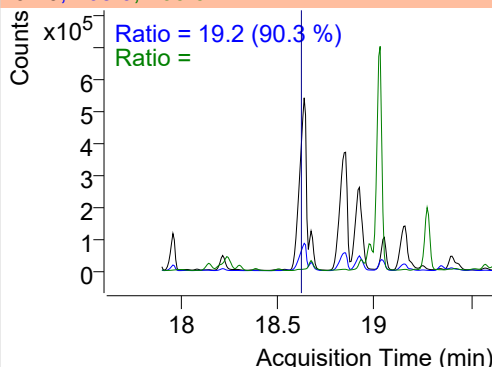
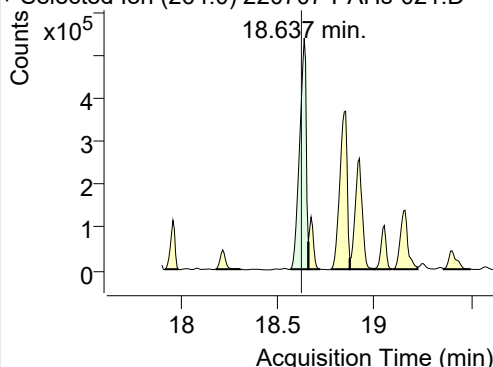


+ SIM (18.251-18.314 min, 9 scans) (**) 22070

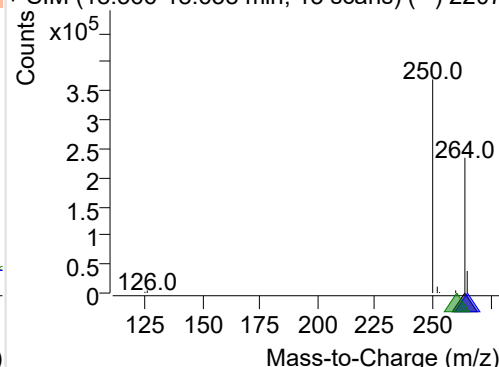
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 220707-PAHs-021.D

264.0, 265.0, 260.0

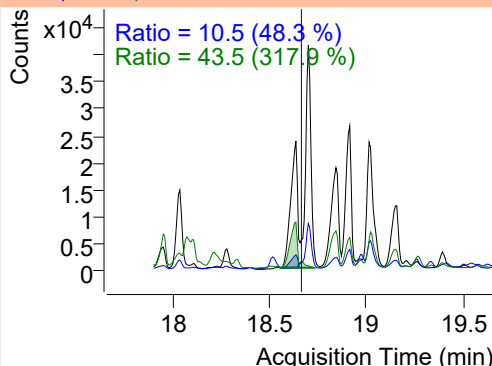
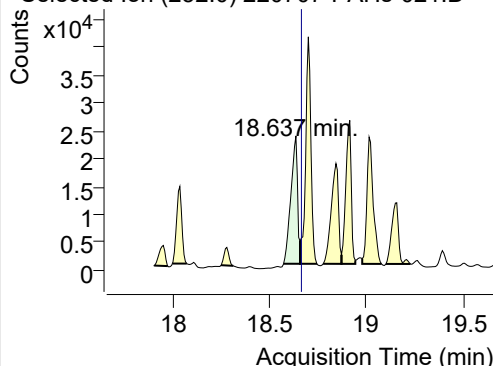


+ SIM (18.566-18.658 min, 13 scans) (**) 2207

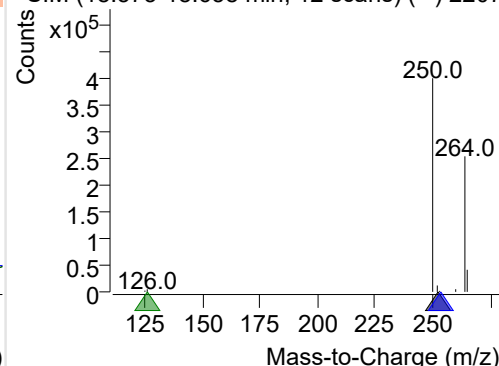
**Benzo(e)pyrene**

+ Selected Ion (252.0) 220707-PAHs-021.D

252.0, 253.0, 126.0



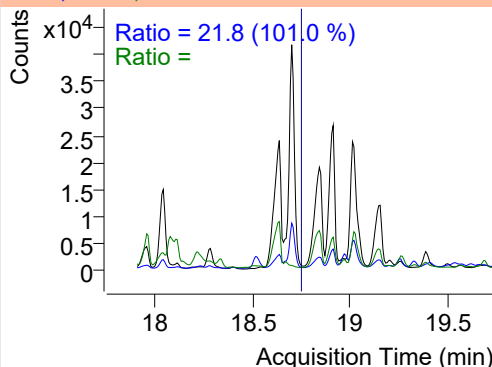
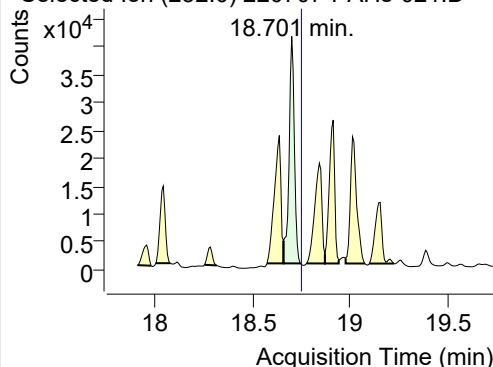
+ SIM (18.573-18.658 min, 12 scans) (**) 2207



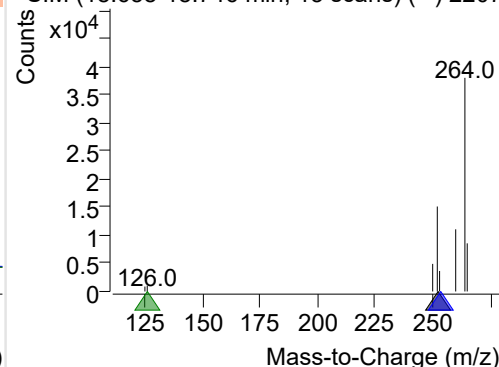
Benzo(a)pyrene

+ Selected Ion (252.0) 220707-PAHs-021.D

252.0, 253.0, 126.0

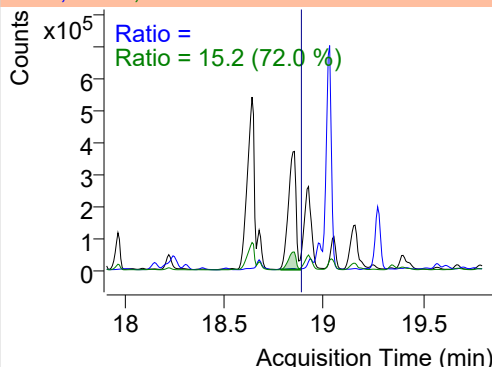
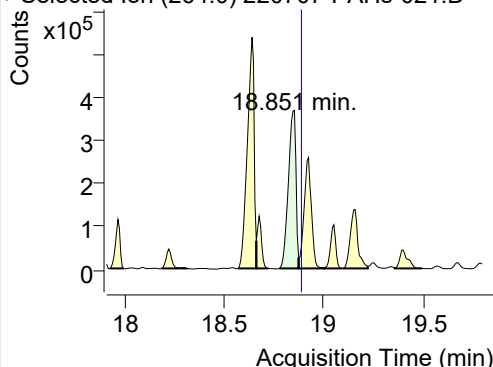


+ SIM (18.658-18.746 min, 13 scans) (**) 2207

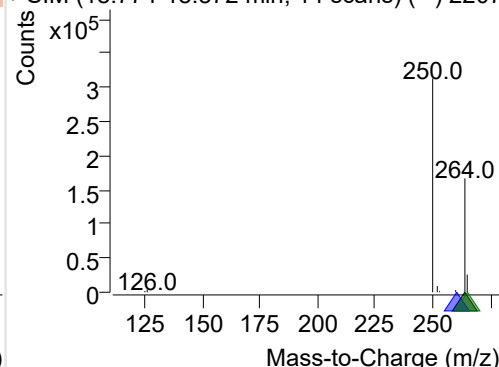
**IS-D12-Perylene**

+ Selected Ion (264.0) 220707-PAHs-021.D

264.0, 260.0, 265.0

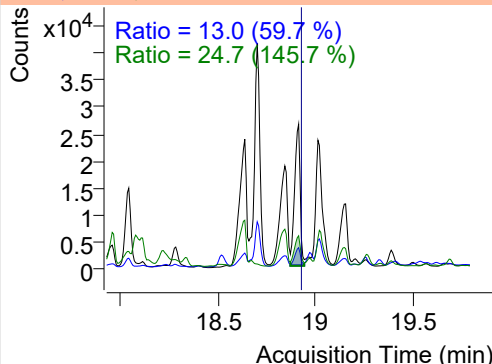
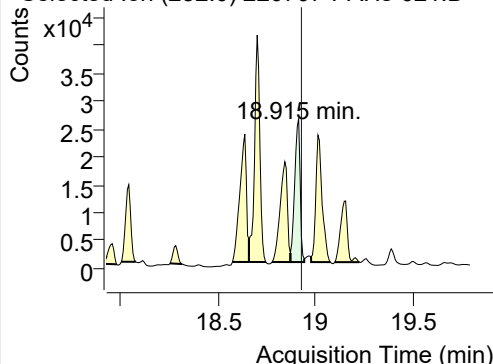


+ SIM (18.774-18.872 min, 14 scans) (**) 2207

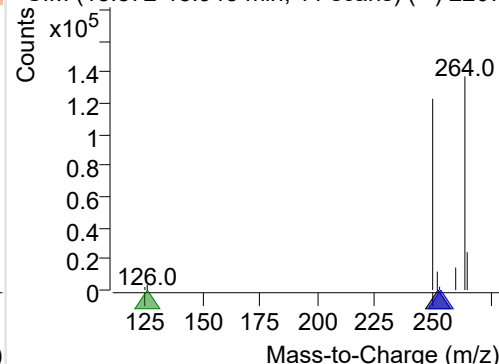
**Perylene**

+ Selected Ion (252.0) 220707-PAHs-021.D

252.0, 253.0, 126.0

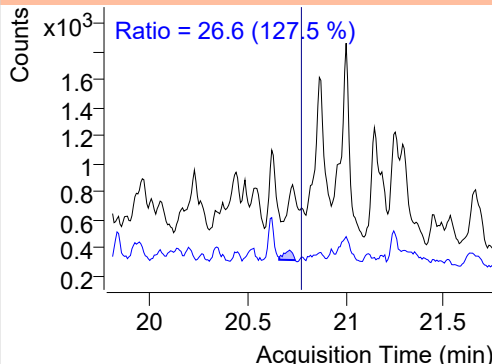
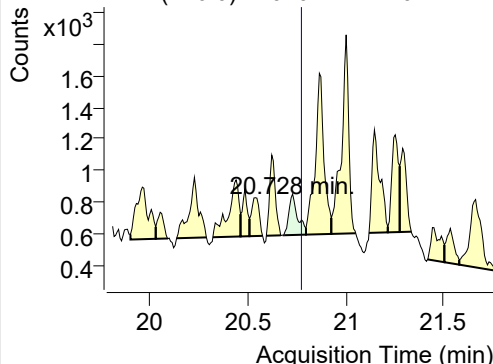


+ SIM (18.872-18.943 min, 11 scans) (**) 2207

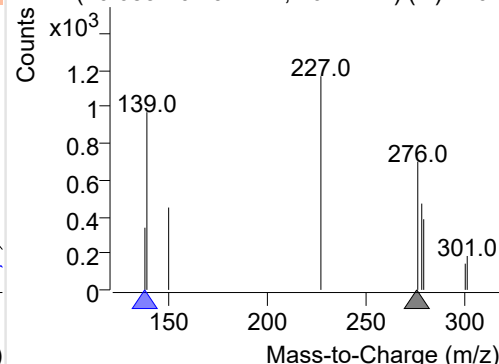
**Indeno(1,2,3-c,d)pyrene**

+ Selected Ion (276.0) 220707-PAHs-021.D

276.0, 138.0



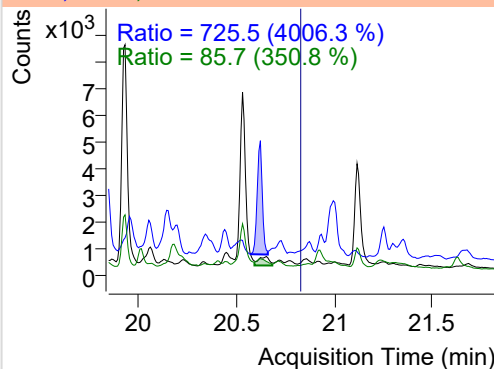
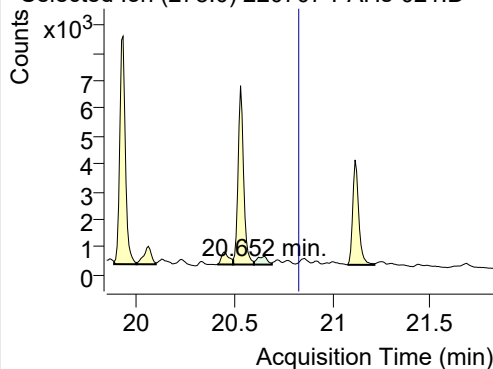
+ SIM (20.683-20.797 min, 16 scans) (**) 2207



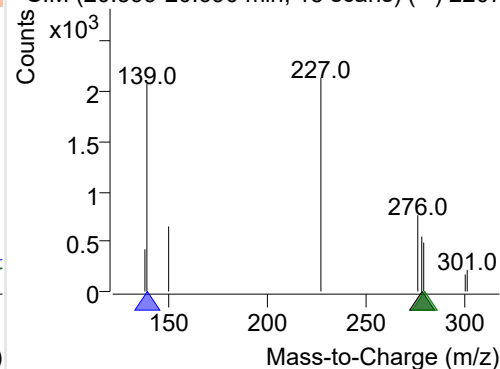
Dibenz(a,h)anthracene

+ Selected Ion (278.0) 220707-PAHs-021.D

278.0, 139.0, 279.0

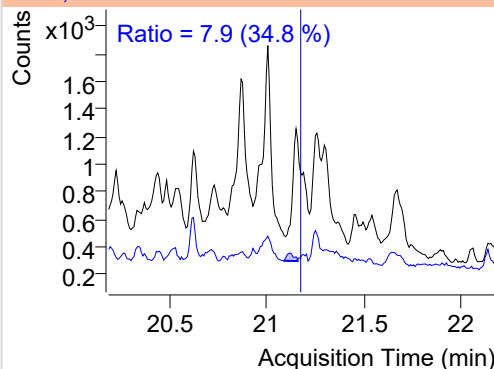
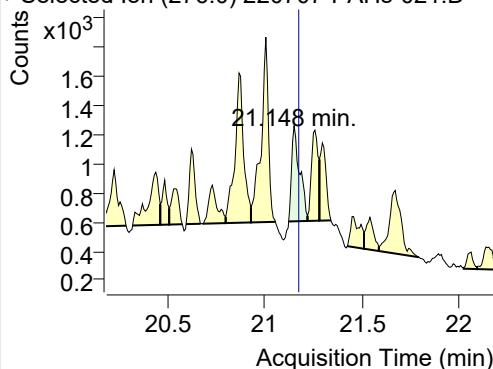


+ SIM (20.599-20.690 min, 13 scans) (**) 2207

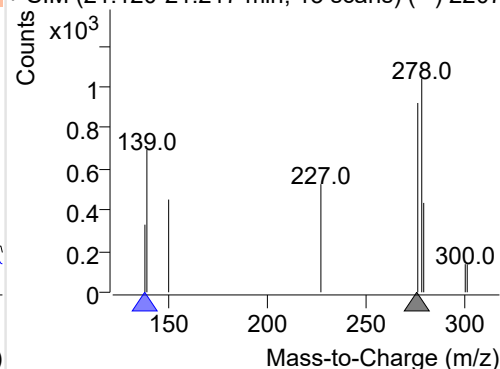
**Benzo(g,h,i)perylene**

+ Selected Ion (276.0) 220707-PAHs-021.D

276.0, 138.0

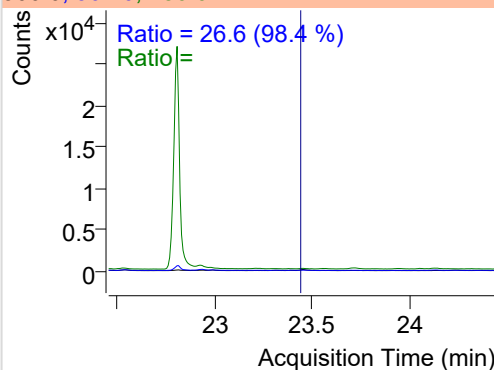
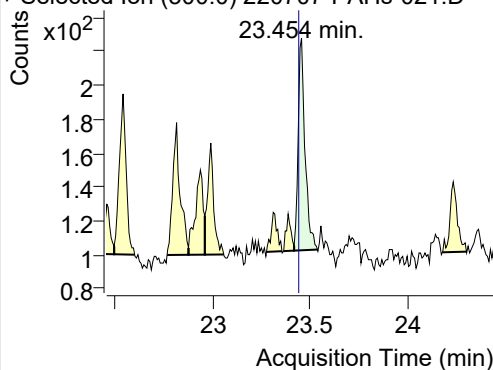


+ SIM (21.120-21.217 min, 13 scans) (**) 2207

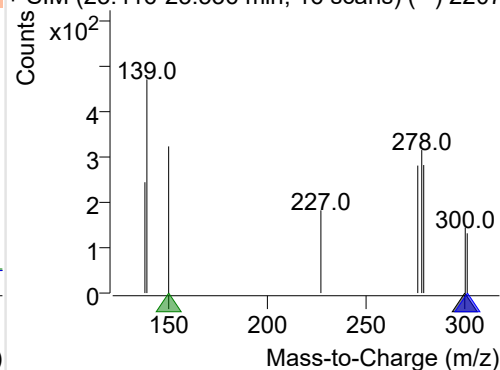
**Coronene**

+ Selected Ion (300.0) 220707-PAHs-021.D

300.0, 301.0, 150.0



+ SIM (23.416-23.536 min, 16 scans) (**) 2207



Quantitative Analysis Sample Based Report

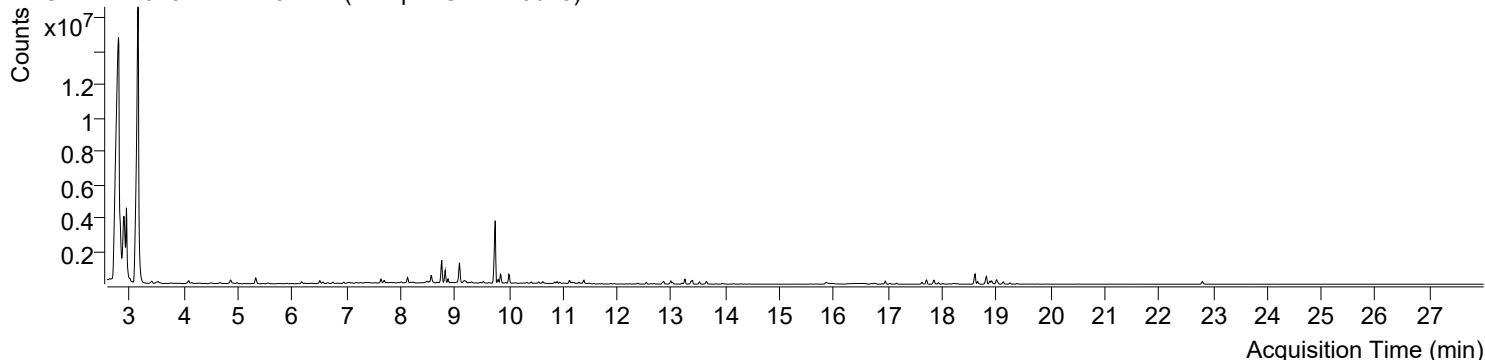


Trusted Answers

| | | | |
|---------------------------|--|-----------------------|------------------------|
| Batch Data Path File Name | D:\MassHunter\GCMS\1\data\PAHs\220707-PAHs-Sample\QuantResults\220707-PAHs-Quant.batch.bin | | |
| Analysis Time Stamp | 2022-07-09 오전 11:12:52 | Analyst Name | DESKTOP-86B7UPG\5975MS |
| Report Generation Time | 2022-07-09 오전 11:13:20 | Report Generator Name | DESKTOP-86B7UPG\5975MS |
| Calibration Last Update | 2022-07-09 오전 11:04:15 | Batch State | Processed |
| Analyze Quant Version | 10.2 | Report Quant Version | 10.2 |
| Acq. Date-Time | 2022-07-08 오전 12:12:54 | Data File | 220707-PAHs-022.D |
| Type | Sample | Name | Sample-Gas-220628 |
| Dil. | 1 | Acq. Method File | PAHs 19mix-Method |

Sample Chromatogram

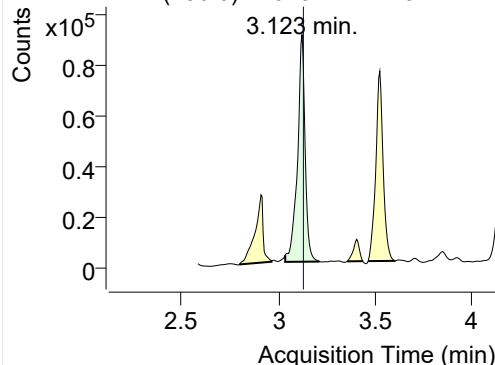
+ TIC SIM 220707-PAHs-022.D (Sample-Gas-220628)



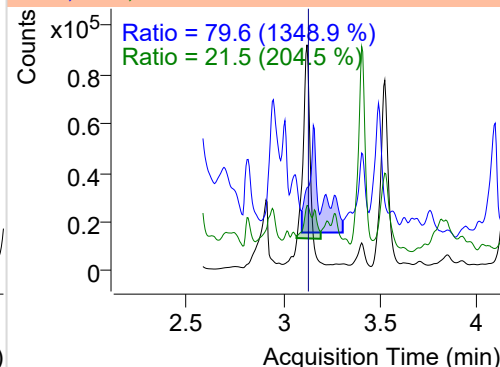
| Name | RT | Transition | Resp. | Height | Final Conc. Units | Ratio |
|-------------------------|--------|------------|----------|------------|-------------------|-------|
| IS-D8-Naphthalene | 3.123 | 136.0 | 244704 | 89608.19 | ND ng/ml | 21.5 |
| Naphthalene | 3.145 | 128.0 | 32505904 | 8383963.82 | ND ng/ml | 17.4 |
| Acenaphthylene | 6.173 | 152.0 | 167598 | 86593.39 | ND ng/ml | 19.4 |
| IS-D10-Acenaphthene | 6.510 | 164.0 | 159945 | 82435.88 | ND ng/ml | 100.5 |
| Acenaphthene | 6.569 | 154.0 | 48655 | 24872.94 | ND ng/ml | 112.2 |
| LSS-D10-Fluorene | 7.638 | 176.0 | 157234 | 93076.79 | ND ng/ml | 95.1 |
| Fluorene | 7.701 | 166.0 | 124209 | 68062.89 | ND ng/ml | 105.4 |
| IS-D10-Phenanthrene | 9.801 | 188.0 | 267006 | 168464.38 | ND ng/ml | 15.9 |
| Phenanthrene | 9.843 | 178.0 | 580635 | 335108.71 | ND ng/ml | 19.0 |
| Anthracene | 9.937 | 178.0 | 44261 | 24892.71 | ND ng/ml | 18.9 |
| Fluoranthene | 12.537 | 202.0 | 116820 | 73395.81 | ND ng/ml | 17.9 |
| LSS-D10-Pyrene | 12.992 | 212.0 | 228167 | 137026.88 | ND ng/ml | 21.7 |
| Pyrene | 13.025 | 202.0 | 125850 | 78178.77 | ND ng/ml | 16.8 |
| Benz(a)anthracene | 15.816 | 228.0 | 2512 | 827.05 | ND ng/ml | 30.3 |
| IS-D12-Chrysene | 15.854 | 240.0 | 216662 | 70571.37 | ND ng/ml | 21.5 |
| Chrysene | 15.903 | 228.0 | 11862 | 2491.47 | ND ng/ml | 27.9 |
| Benzo(b)fluoranthene | 18.018 | 252.0 | 9586 | 4903.58 | ND ng/ml | 8.8 |
| Benzo(k)fluoranthene | 18.267 | 252.0 | 2324 | 1224.58 | ND ng/ml | 10.3 |
| SS-D12-Benzo(e)pyrene | 18.608 | 264.0 | 399822 | 216212.08 | ND ng/ml | |
| Benzo(e)pyrene | 18.687 | 252.0 | 12580 | 5623.58 | ND ng/ml | 25.8 |
| Benzo(a)pyrene | 18.687 | 252.0 | 12580 | 5623.58 | ND ng/ml | 25.8 |
| IS-D12-Perylene | 18.914 | 264.0 | 343923 | 130836.08 | ND ng/ml | 16.1 |
| Perylene | 18.879 | 252.0 | 18810 | 8704.58 | ND ng/ml | 13.4 |
| Indeno(1,2,3-c,d)pyrene | 20.713 | 276.0 | 127 | 42.23 | ND ng/ml | |
| Dibenz(a,h)anthracene | 21.118 | 278.0 | 6840 | 3137.32 | ND ng/ml | 18.4 |
| Benzo(g,h,i)perylene | 21.148 | 276.0 | 827 | 187.87 | ND ng/ml | 10.7 |
| Coronene | 23.446 | 300.0 | 143 | 53.53 | ND ng/ml | |

IS-D8-Naphthalene

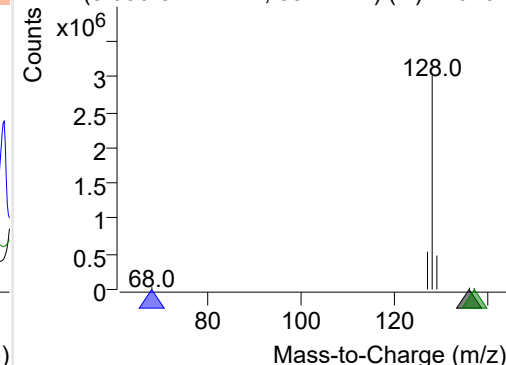
+ Selected Ion (136.0) 220707-PAHs-022.D



136.0, 68.0, 137.0

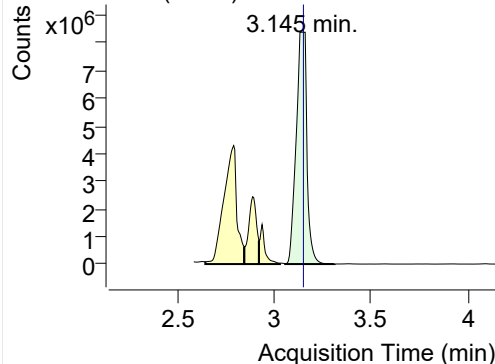


+ SIM (3.036-3.214 min, 33 scans) (**) 220707

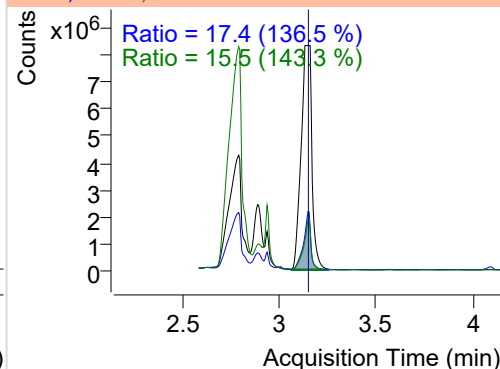


Naphthalene

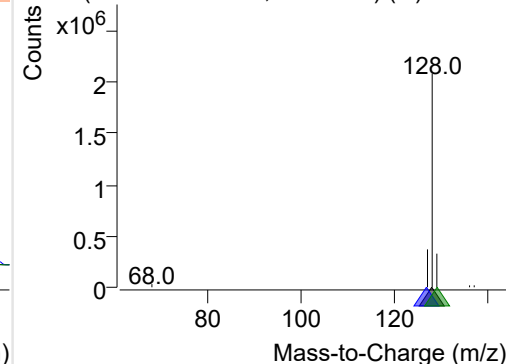
+ Selected Ion (128.0) 220707-PAHs-022.D



128.0, 127.0, 129.0

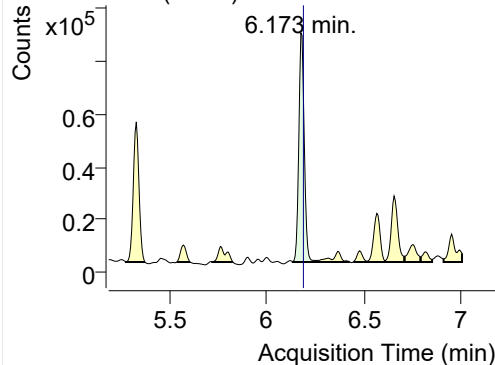


+ SIM (3.058-3.312 min, 48 scans) (**) 220707

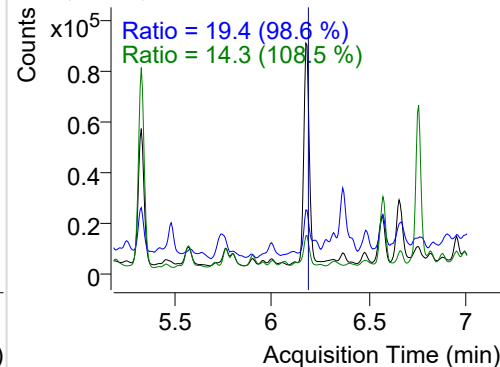


Acenaphthylene

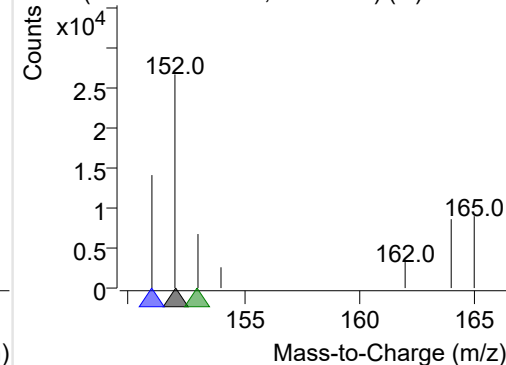
+ Selected Ion (152.0) 220707-PAHs-022.D



152.0, 151.0, 153.0

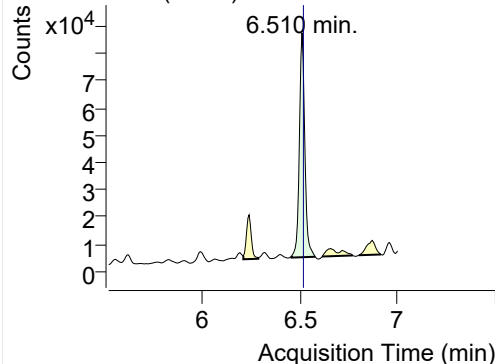


+ SIM (6.131-6.250 min, 21 scans) (**) 220707

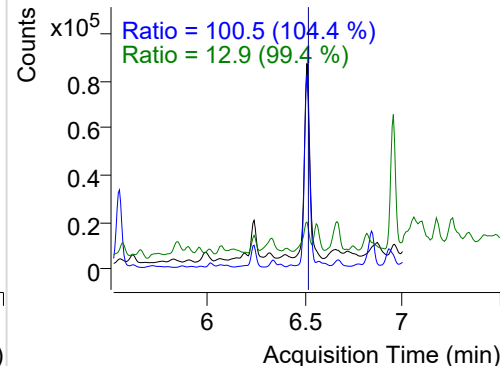


IS-D10-Acenaphthene

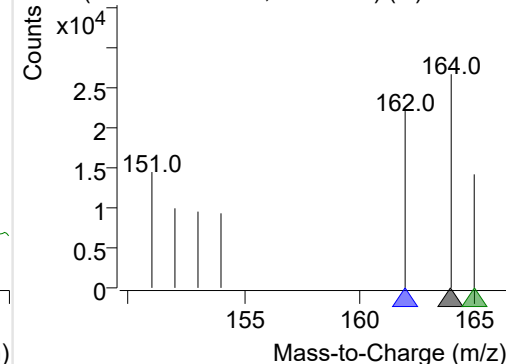
+ Selected Ion (164.0) 220707-PAHs-022.D



164.0, 162.0, 165.0

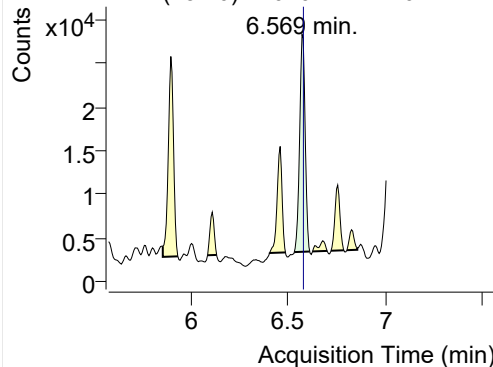


+ SIM (6.457-6.579 min, 21 scans) (**) 220707

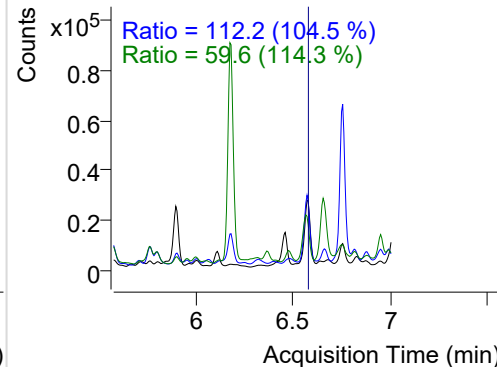


Acenaphthene

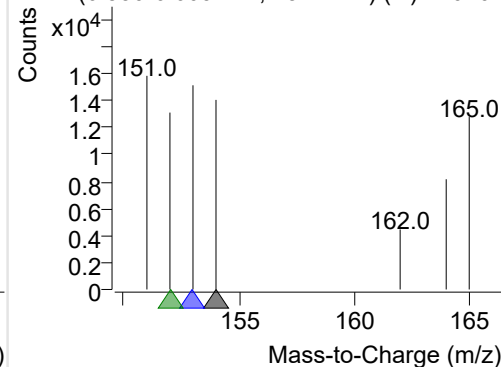
+ Selected Ion (154.0) 220707-PAHs-022.D



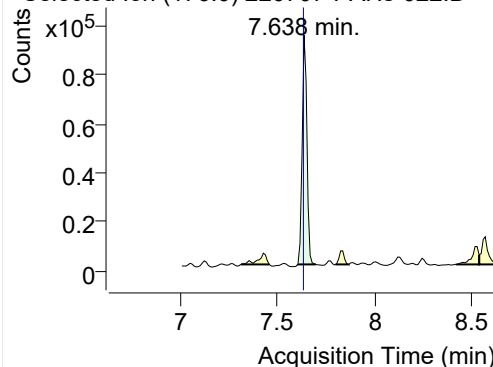
154.0, 153.0, 152.0



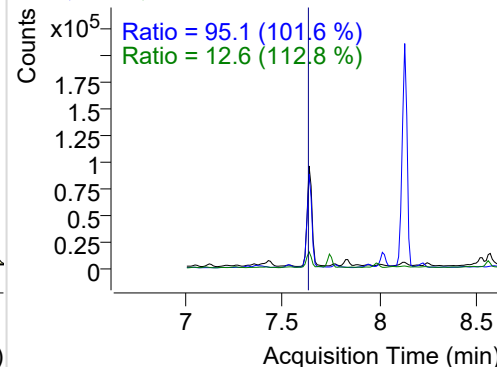
+ SIM (6.530-6.609 min, 13 scans) (**) 220707

**LSS-D10-Fluorene**

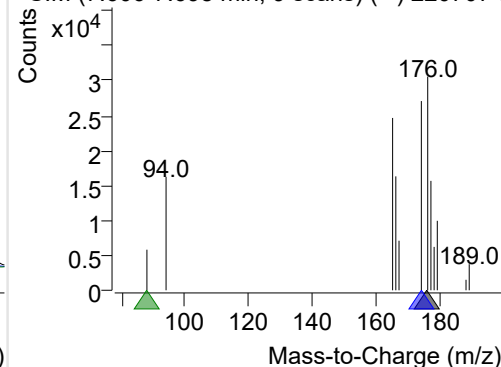
+ Selected Ion (176.0) 220707-PAHs-022.D



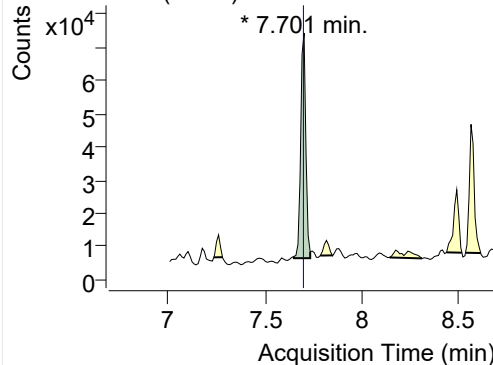
176.0, 174.0, 88.0



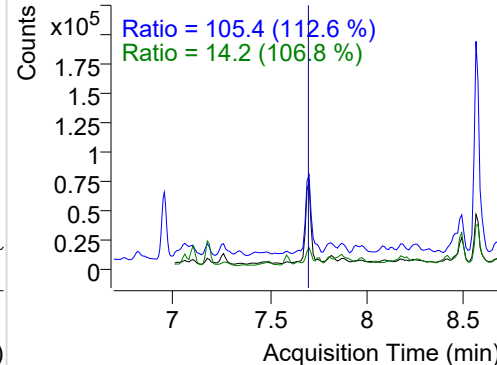
+ SIM (7.606-7.698 min, 9 scans) (**) 220707-I

**Fluorene**

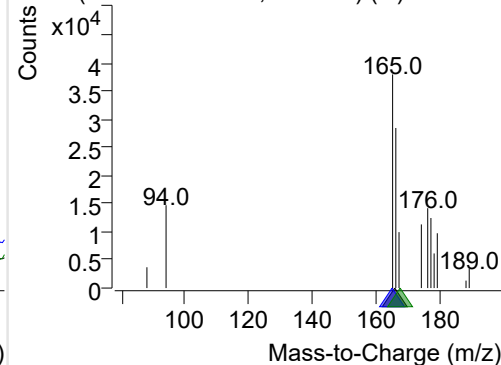
+ Selected Ion (166.0) 220707-PAHs-022.D



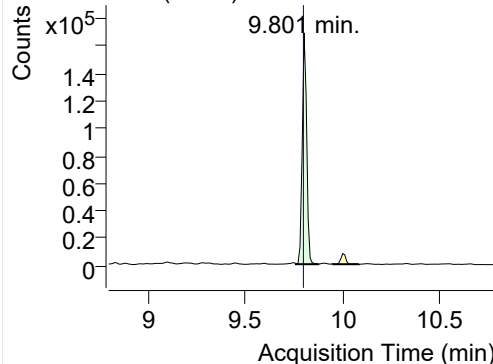
166.0, 165.0, 167.0



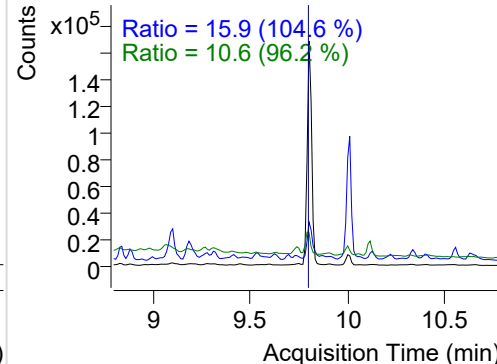
+ SIM (7.648-7.732 min, 9 scans) (**) 220707-I

**IS-D10-Phenanthrene**

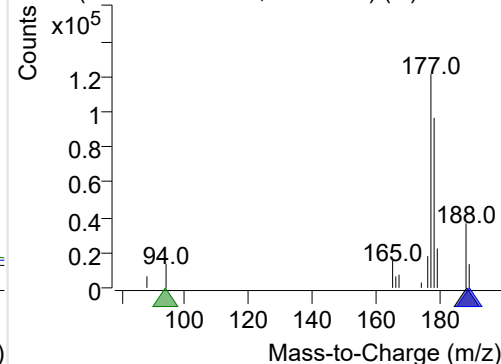
+ Selected Ion (188.0) 220707-PAHs-022.D



188.0, 189.0, 94.0

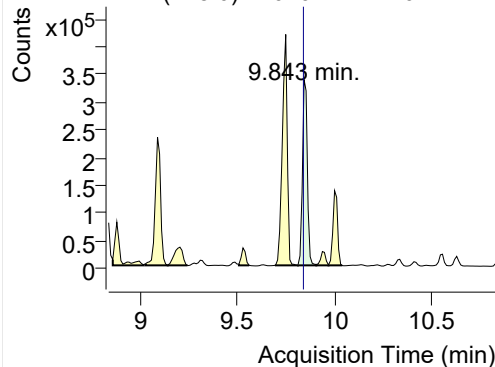


+ SIM (9.759-9.874 min, 12 scans) (**) 220707

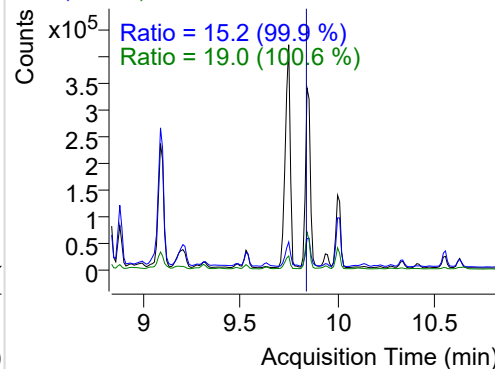


Phenanthrene

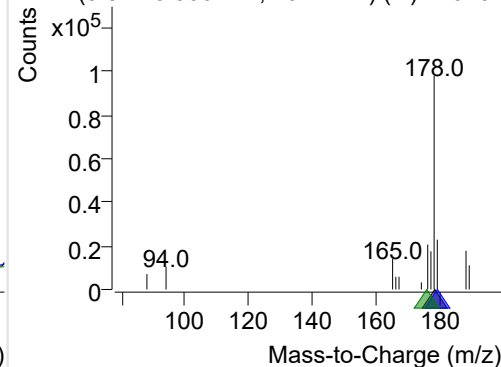
+ Selected Ion (178.0) 220707-PAHs-022.D



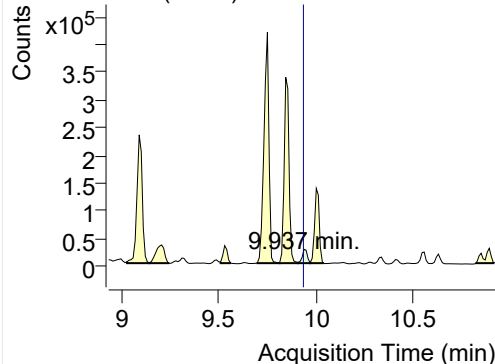
178.0, 179.0, 176.0



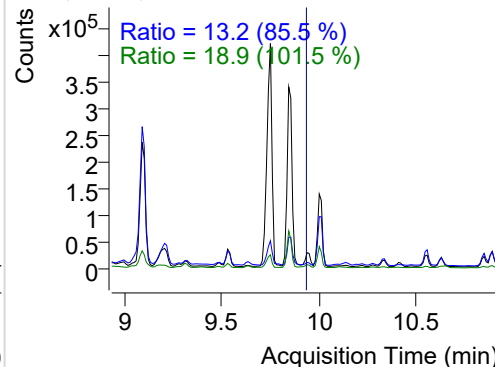
+ SIM (9.811-9.906 min, 10 scans) (**) 220707

**Anthracene**

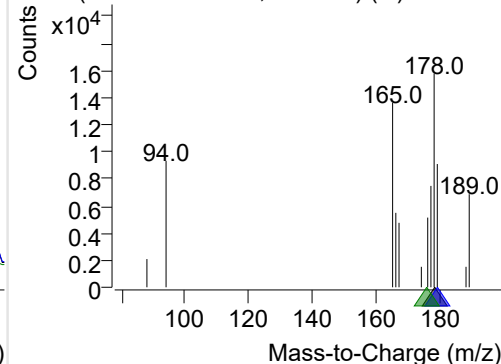
+ Selected Ion (178.0) 220707-PAHs-022.D



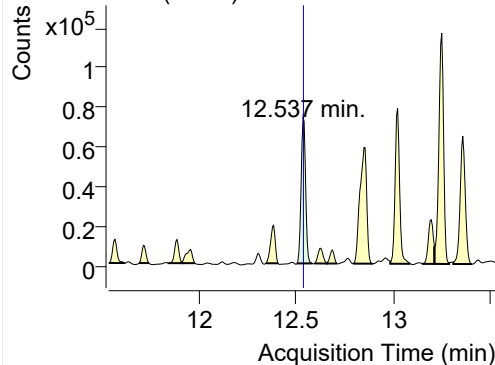
178.0, 179.0, 176.0



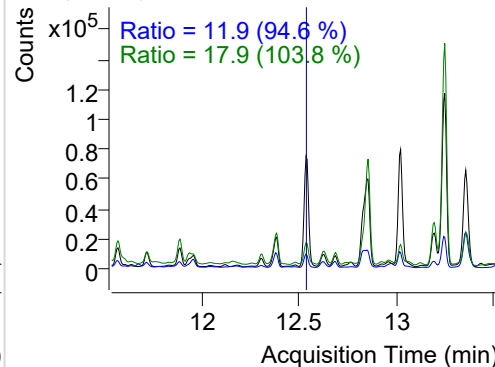
+ SIM (9.906-9.969 min, 7 scans) (**) 220707-I

**Fluoranthene**

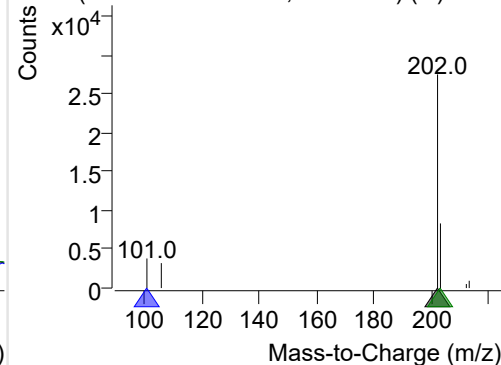
+ Selected Ion (202.0) 220707-PAHs-022.D



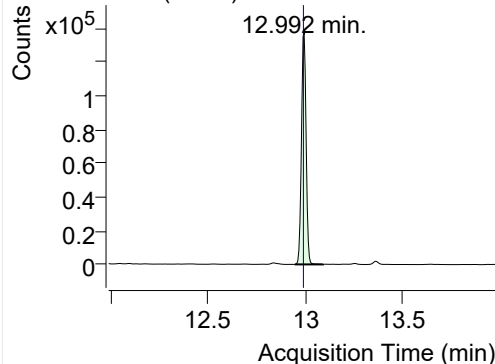
202.0, 101.0, 203.0



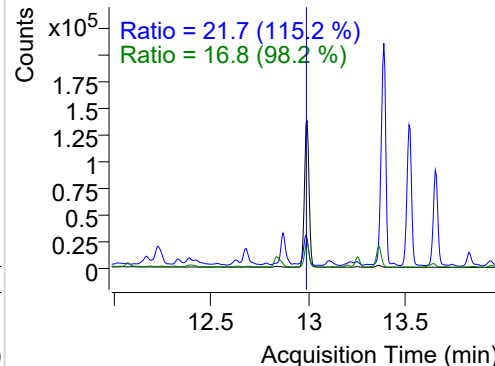
+ SIM (12.506-12.584 min, 14 scans) (**) 2207

**LSS-D10-Pyrene**

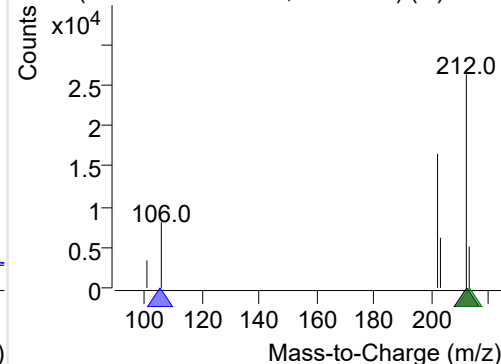
+ Selected Ion (212.0) 220707-PAHs-022.D



212.0, 106.0, 213.0

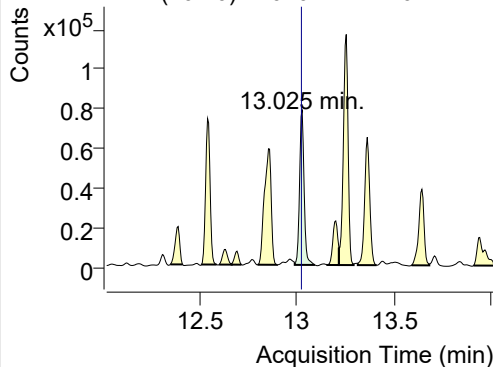


+ SIM (12.944-13.090 min, 27 scans) (**) 2207

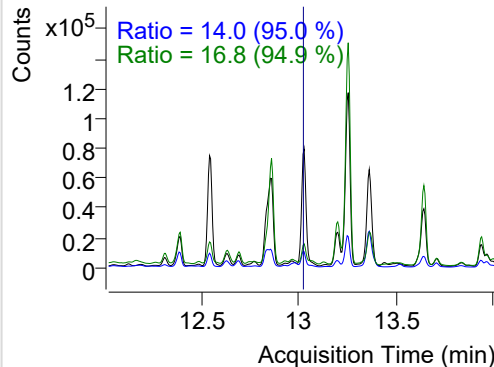


Pyrene

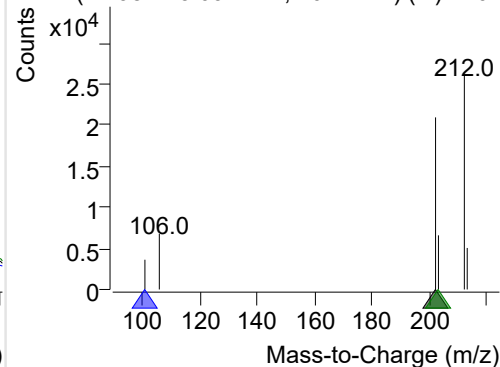
+ Selected Ion (202.0) 220707-PAHs-022.D



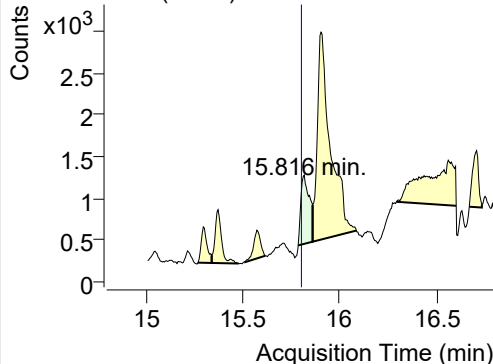
202.0, 101.0, 203.0



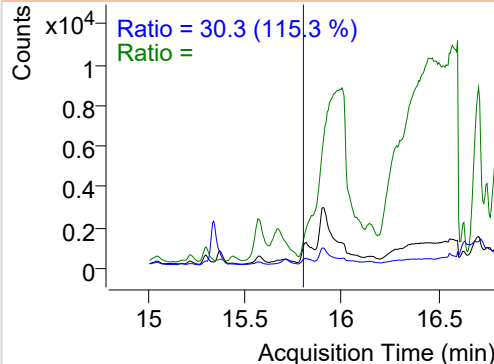
+ SIM (12.987-13.091 min, 20 scans) (**) 2207

**Benz(a)anthracene**

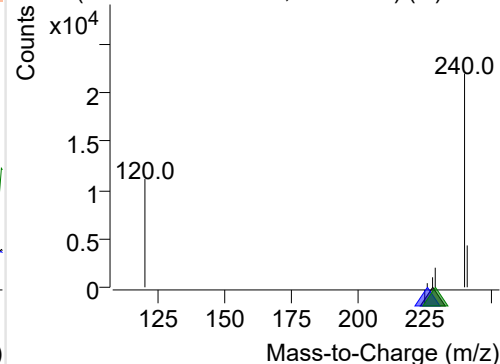
+ Selected Ion (228.0) 220707-PAHs-022.D



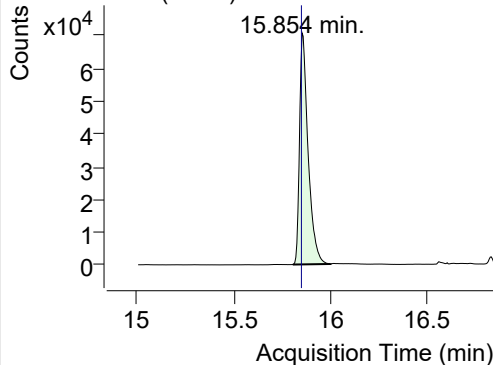
228.0, 226.0, 229.0



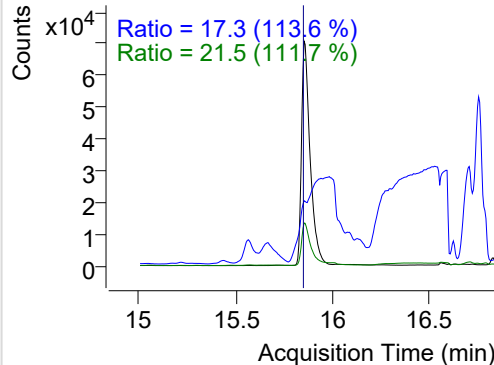
+ SIM (15.785-15.860 min, 14 scans) (**) 2207

**IS-D12-Chrysene**

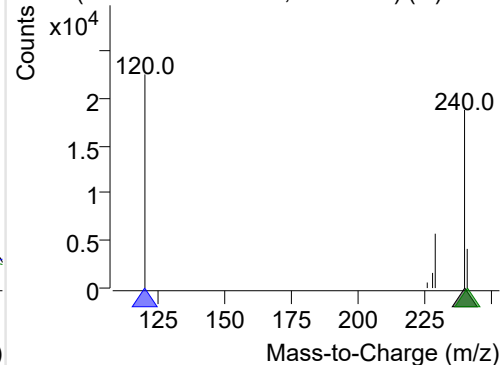
+ Selected Ion (240.0) 220707-PAHs-022.D



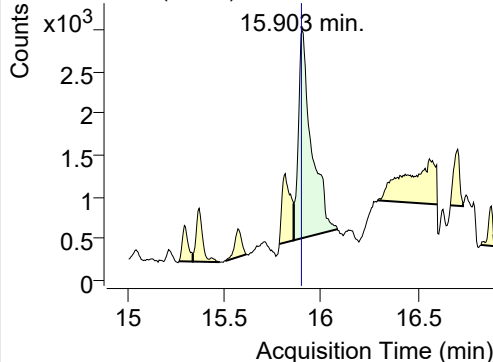
240.0, 120.0, 241.0



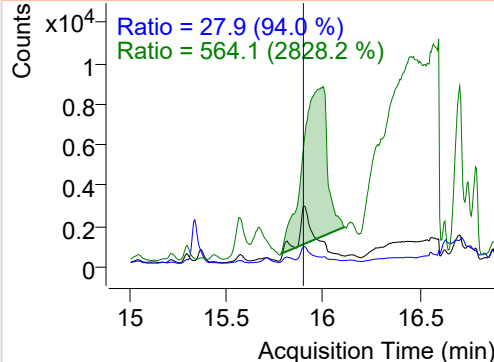
+ SIM (15.806-16.001 min, 36 scans) (**) 2207

**Chrysene**

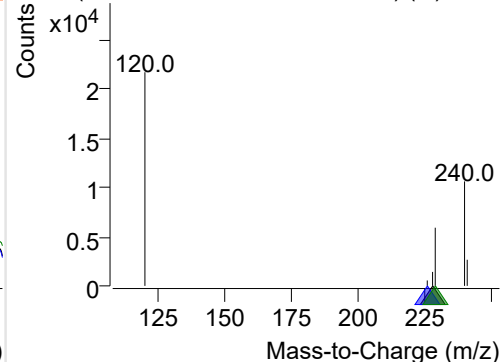
+ Selected Ion (228.0) 220707-PAHs-022.D



228.0, 226.0, 229.0



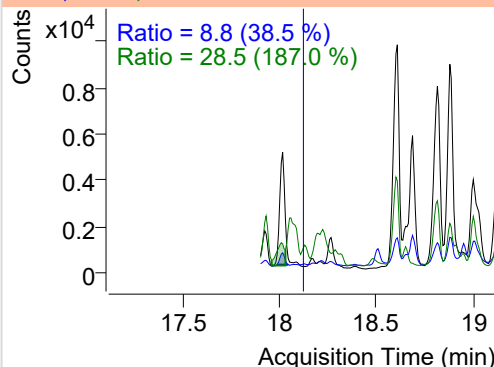
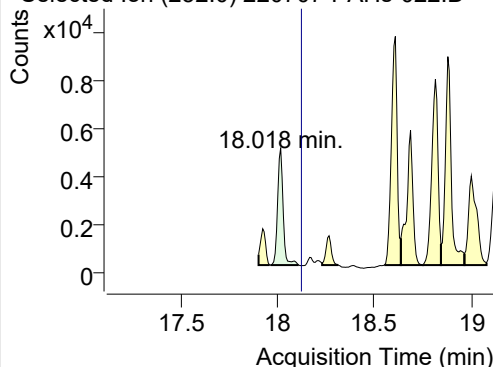
+ SIM (15.860-16.085 min, 42 scans) (**) 2207



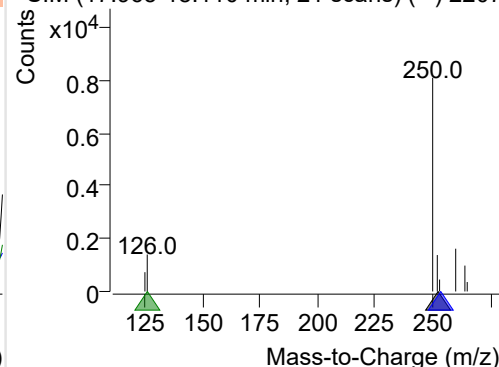
Benzo(b)fluoranthene

+ Selected Ion (252.0) 220707-PAHs-022.D

252.0, 253.0, 126.0

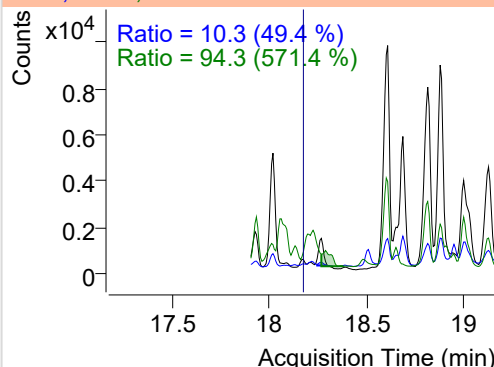
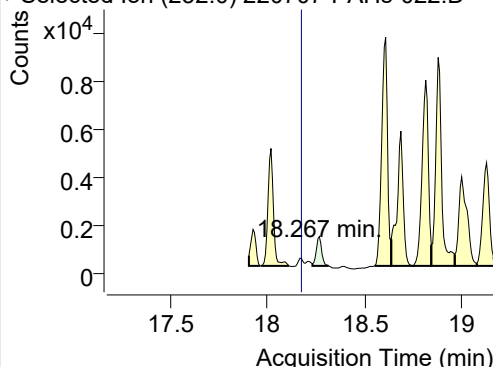


+ SIM (17.965-18.110 min, 21 scans) (**) 2207

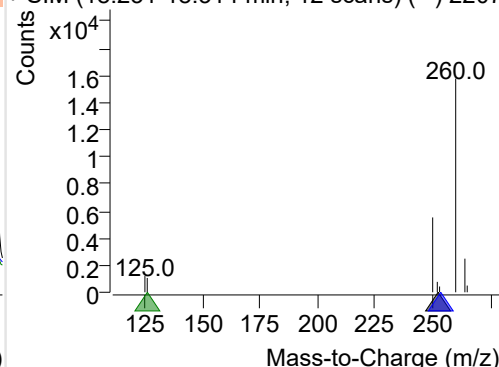
**Benzo(k)fluoranthene**

+ Selected Ion (252.0) 220707-PAHs-022.D

252.0, 253.0, 126.0

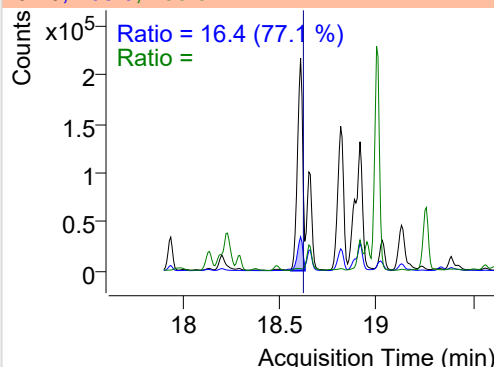
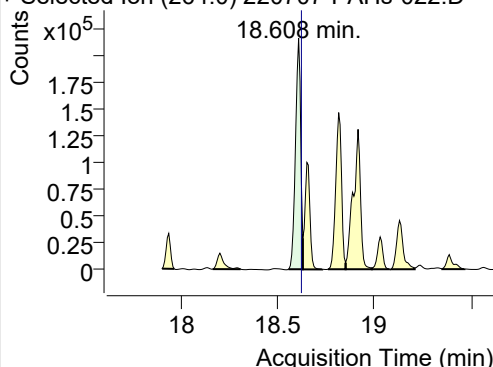


+ SIM (18.231-18.314 min, 12 scans) (**) 2207

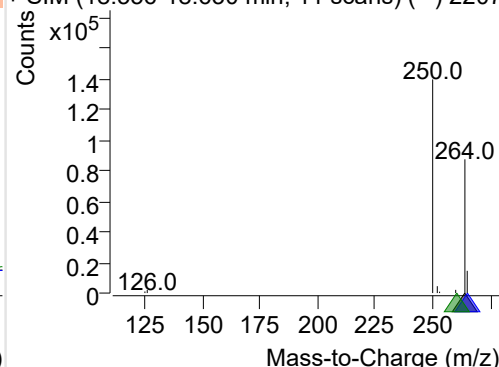
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 220707-PAHs-022.D

264.0, 265.0, 260.0

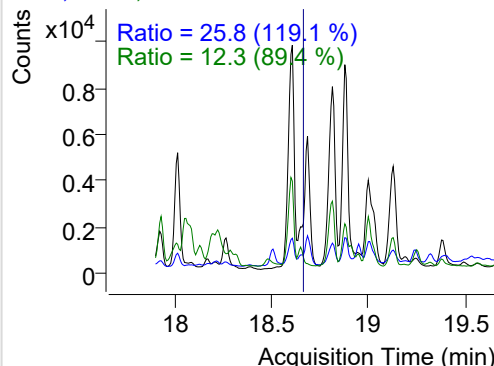
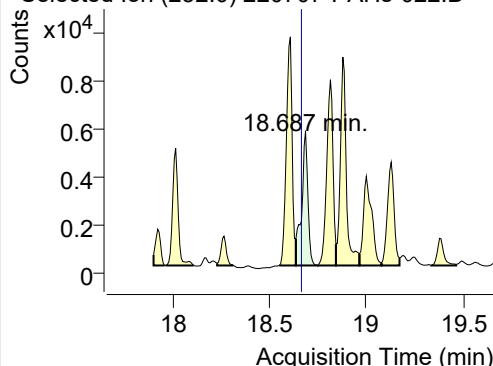


+ SIM (18.556-18.630 min, 11 scans) (**) 2207

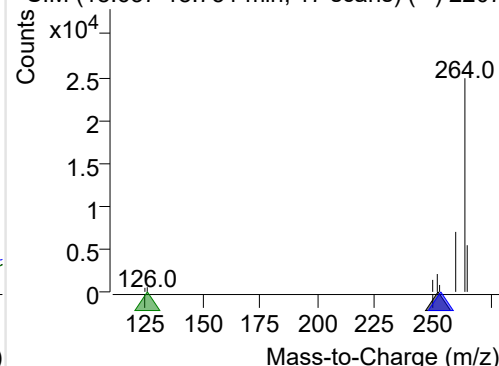
**Benzo(e)pyrene**

+ Selected Ion (252.0) 220707-PAHs-022.D

252.0, 253.0, 126.0



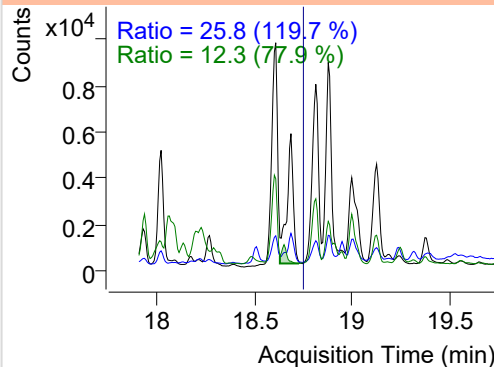
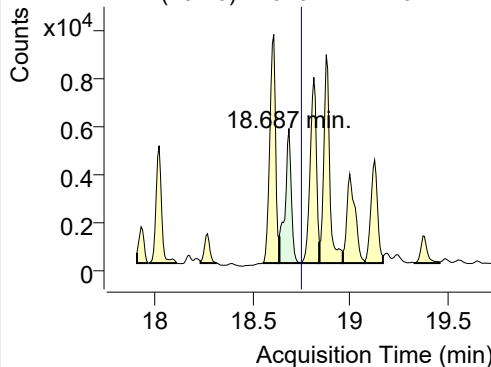
+ SIM (18.637-18.751 min, 17 scans) (**) 2207



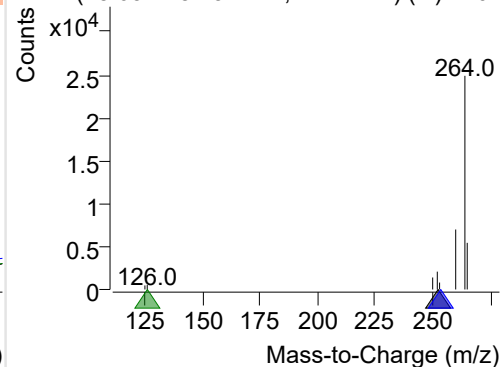
Benzo(a)pyrene

+ Selected Ion (252.0) 220707-PAHs-022.D

252.0, 253.0, 126.0

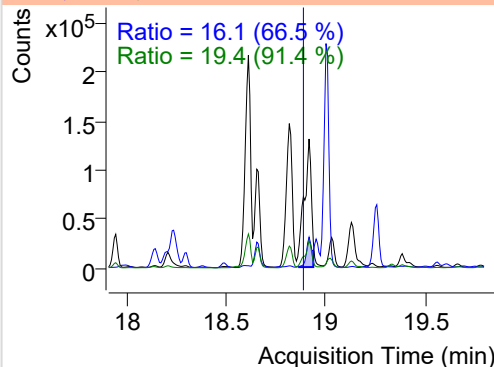
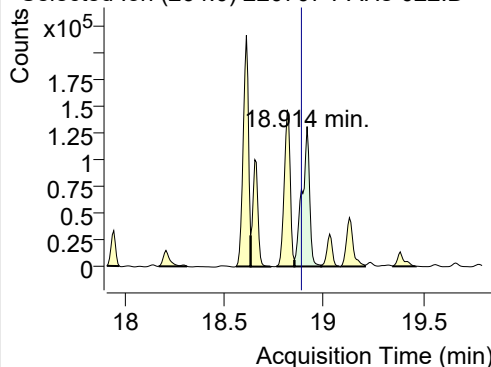


+ SIM (18.637-18.751 min, 17 scans) (**) 2207

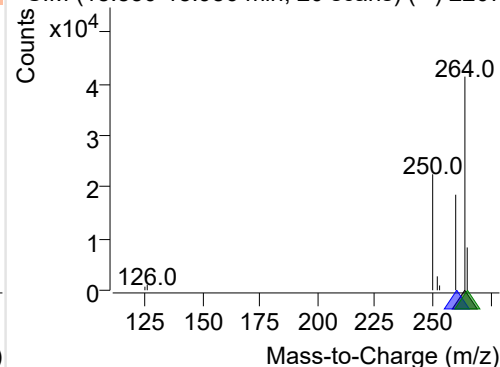
**IS-D12-Perylene**

+ Selected Ion (264.0) 220707-PAHs-022.D

264.0, 260.0, 265.0

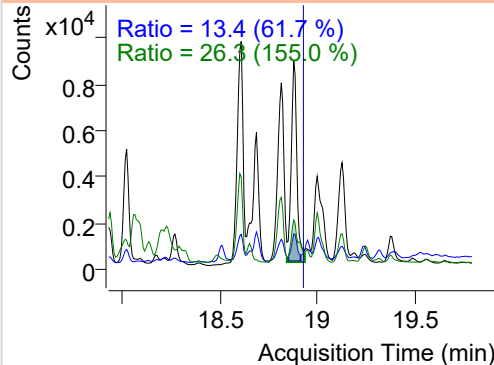
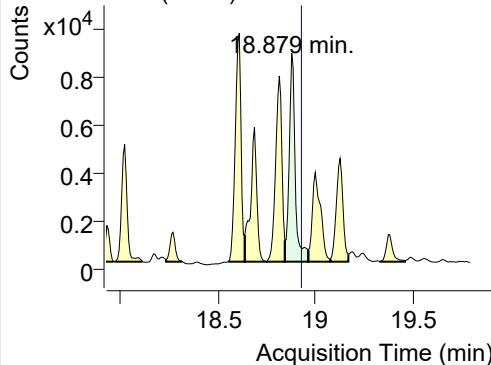


+ SIM (18.850-18.986 min, 20 scans) (**) 2207

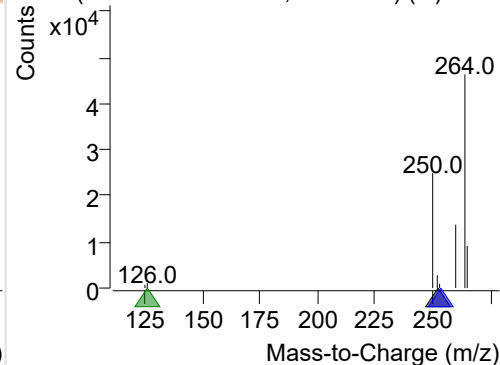
**Perylene**

+ Selected Ion (252.0) 220707-PAHs-022.D

252.0, 253.0, 126.0

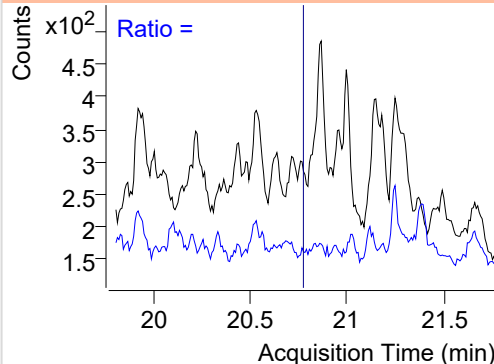
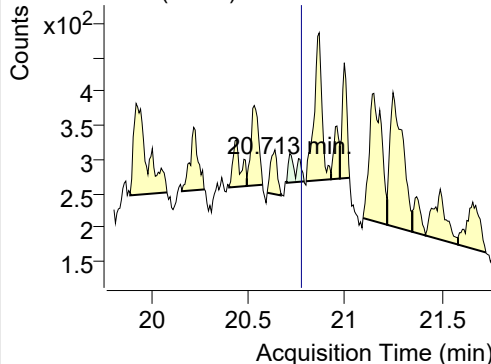


+ SIM (18.843-18.964 min, 18 scans) (**) 2207

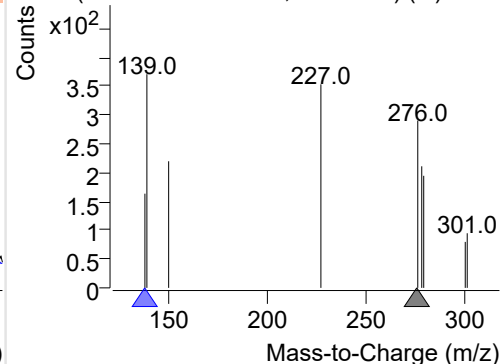
**Indeno(1,2,3-c,d)pyrene**

+ Selected Ion (276.0) 220707-PAHs-022.D

276.0, 138.0



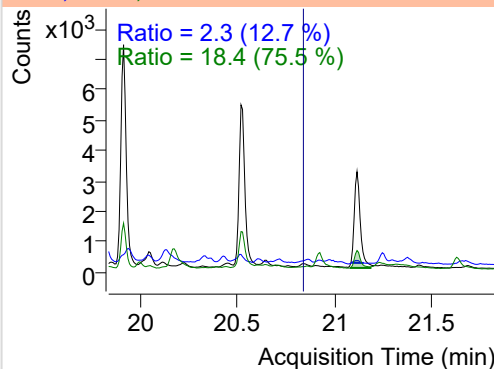
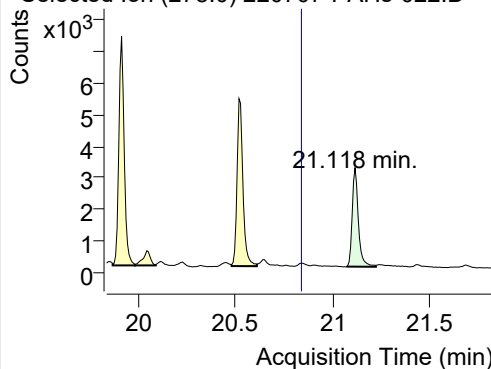
+ SIM (20.698-20.788 min, 12 scans) (**) 2207



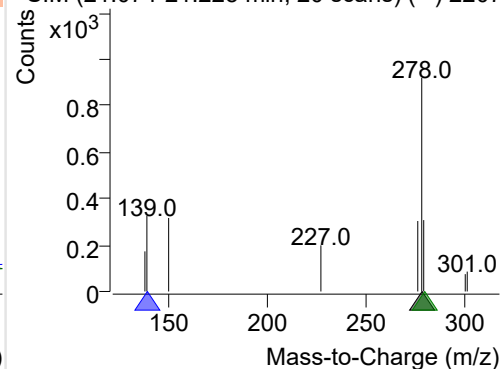
Dibenz(a,h)anthracene

+ Selected Ion (278.0) 220707-PAHs-022.D

278.0, 139.0, 279.0

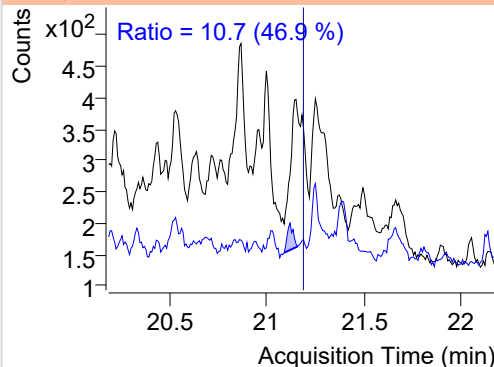
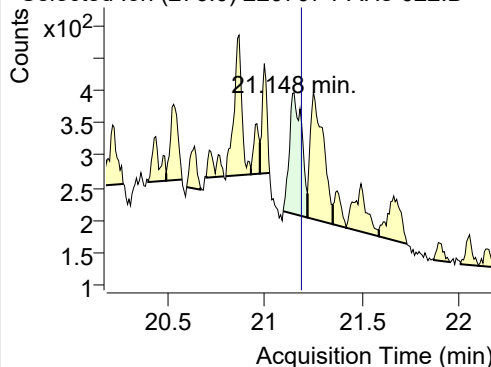


+ SIM (21.074-21.225 min, 20 scans) (**) 2207

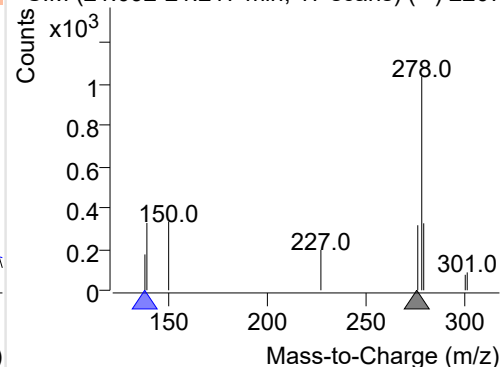
**Benzo(g,h,i)perylene**

+ Selected Ion (276.0) 220707-PAHs-022.D

276.0, 138.0

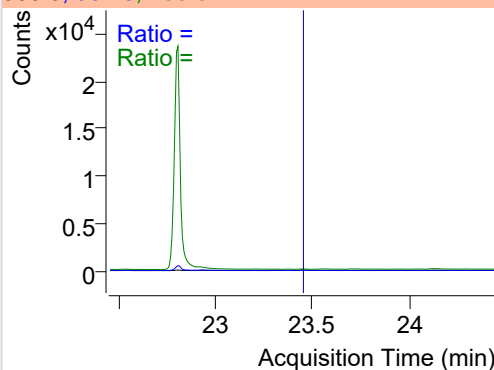
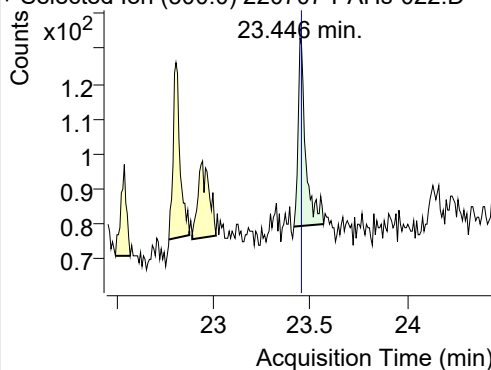


+ SIM (21.092-21.217 min, 17 scans) (**) 2207

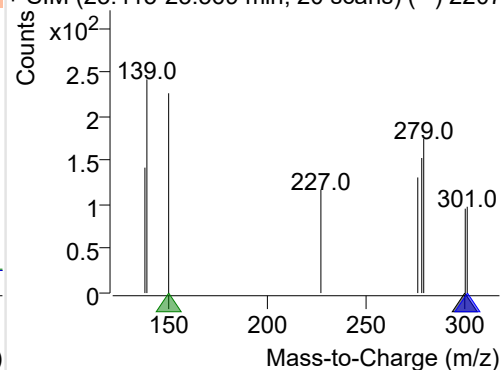
**Coronene**

+ Selected Ion (300.0) 220707-PAHs-022.D

300.0, 301.0, 150.0



+ SIM (23.415-23.569 min, 20 scans) (**) 2207



Quantitative Analysis Sample Based Report

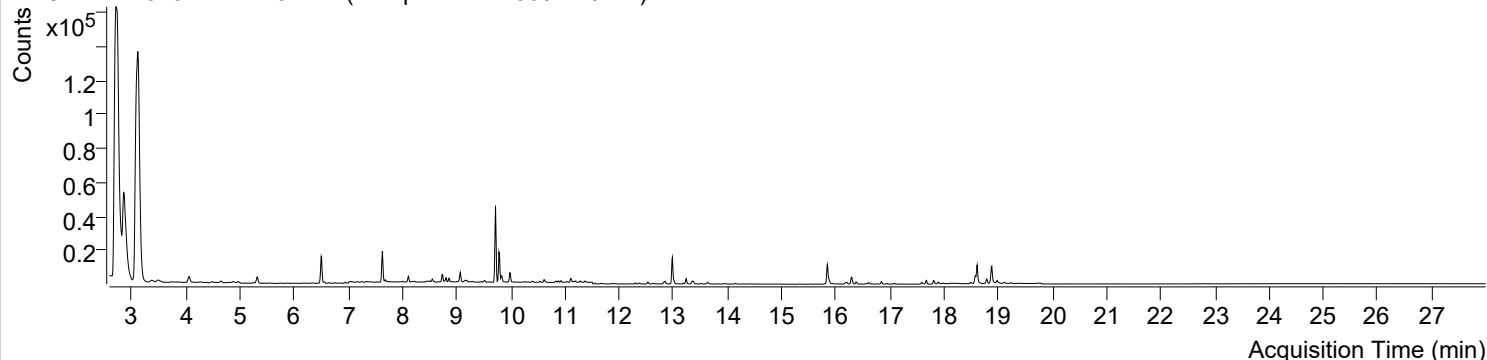


Trusted Answers

| | | | |
|---------------------------|--|-----------------------|------------------------|
| Batch Data Path File Name | D:\MassHunter\GCMS\1\data\PAHs\220707-PAHs-Sample\QuantResults\220707-PAHs-Quant.batch.bin | | |
| Analysis Time Stamp | 2022-07-09 오전 11:12:52 | Analyst Name | DESKTOP-86B7UPG\5975MS |
| Report Generation Time | 2022-07-09 오전 11:13:20 | Report Generator Name | DESKTOP-86B7UPG\5975MS |
| Calibration Last Update | 2022-07-09 오전 11:04:15 | Batch State | Processed |
| Analyze Quant Version | 10.2 | Report Quant Version | 10.2 |
| Acq. Date-Time | 2022-07-08 오전 1:15:03 | Data File | 220707-PAHs-024.D |
| Type | Sample | Name | Sample-PM-220604-10DIL |
| Dil. | 1 | Acq. Method File | PAHs 19mix-Method |

Sample Chromatogram

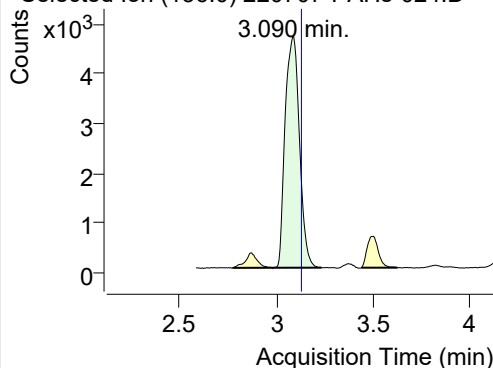
+ TIC SIM 220707-PAHs-024.D (Sample-PM-220604-10DIL)



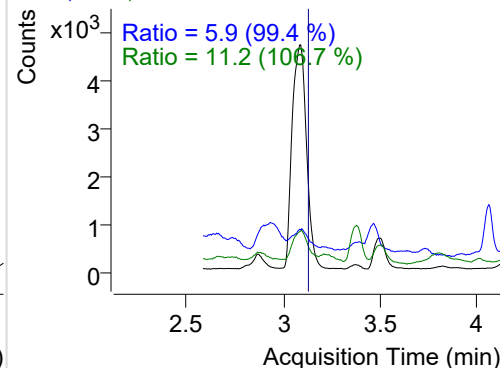
| Name | RT | Transition | Resp. | Height | Final Conc. Units | Ratio |
|-------------------------|--------|------------|--------|-----------|-------------------|-------|
| IS-D8-Naphthalene | 3.090 | 136.0 | 23720 | 4626.05 | ND ng/ml | 11.2 |
| Naphthalene | 3.112 | 128.0 | 539206 | 105678.80 | ND ng/ml | 13.0 |
| Acenaphthylene | 6.167 | 152.0 | 392 | 188.27 | ND ng/ml | 32.2 |
| IS-D10-Acenaphthene | 6.498 | 164.0 | 14242 | 7544.59 | ND ng/ml | 95.1 |
| Acenaphthene | 6.564 | 154.0 | 399 | 192.18 | ND ng/ml | 97.5 |
| LSS-D10-Fluorene | 7.627 | 176.0 | 13771 | 8290.96 | ND ng/ml | 92.6 |
| Fluorene | 7.680 | 166.0 | 1005 | 540.48 | ND ng/ml | 120.3 |
| IS-D10-Phenanthrene | 9.780 | 188.0 | 24693 | 13655.90 | ND ng/ml | 15.4 |
| Phenanthrene | 9.832 | 178.0 | 4033 | 2230.81 | ND ng/ml | 20.1 |
| Anthracene | 9.990 | 178.0 | 2561 | 1460.81 | ND ng/ml | 28.4 |
| Fluoranthene | 12.532 | 202.0 | 1438 | 856.90 | ND ng/ml | 18.8 |
| LSS-D10-Pyrene | 12.981 | 212.0 | 19033 | 11469.95 | ND ng/ml | 17.4 |
| Pyrene | 13.014 | 202.0 | 1811 | 1064.80 | ND ng/ml | 20.5 |
| Benz(a)anthracene | 15.795 | 228.0 | 96 | 56.84 | ND ng/ml | 23.1 |
| IS-D12-Chrysene | 15.843 | 240.0 | 16866 | 8749.50 | ND ng/ml | 19.2 |
| Chrysene | 15.887 | 228.0 | 652 | 242.30 | ND ng/ml | 24.7 |
| Benzo(b)fluoranthene | 18.110 | 252.0 | 240 | 126.47 | ND ng/ml | 75.8 |
| Benzo(k)fluoranthene | 18.167 | 252.0 | 171 | 66.47 | ND ng/ml | |
| SS-D12-Benzo(e)pyrene | 18.608 | 264.0 | 15805 | 7286.50 | ND ng/ml | 21.3 |
| Benzo(e)pyrene | 18.651 | 252.0 | 231 | 114.42 | ND ng/ml | 15.5 |
| Benzo(a)pyrene | 18.779 | 252.0 | 687 | 295.77 | ND ng/ml | 19.5 |
| IS-D12-Perylene | 18.879 | 264.0 | 14496 | 6891.45 | ND ng/ml | 23.7 |
| Perylene | 18.858 | 252.0 | 573 | 212.60 | ND ng/ml | 19.3 |
| Indeno(1,2,3-c,d)pyrene | 20.759 | 276.0 | 87 | 21.00 | ND ng/ml | 8.8 |
| Dibenz(a,h)anthracene | 20.843 | 278.0 | 63 | 15.64 | ND ng/ml | |
| Benzo(g,h,i)perylene | 21.179 | 276.0 | 74 | 30.38 | ND ng/ml | 30.4 |
| Coronene | 23.462 | 300.0 | 50 | 19.60 | ND ng/ml | |

IS-D8-Naphthalene

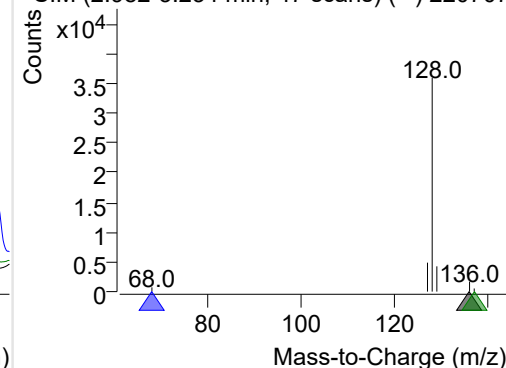
+ Selected Ion (136.0) 220707-PAHs-024.D



136.0, 68.0, 137.0

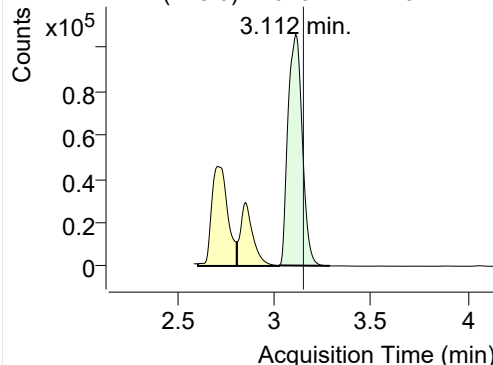


+ SIM (2.982-3.234 min, 47 scans) (**) 220707

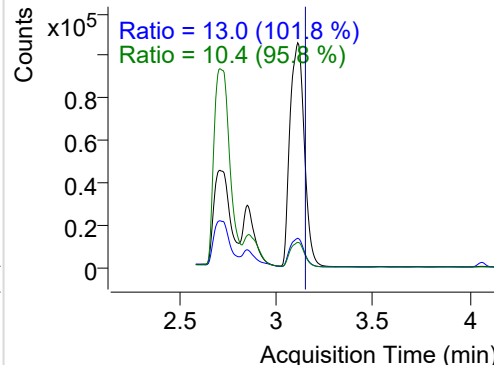


Naphthalene

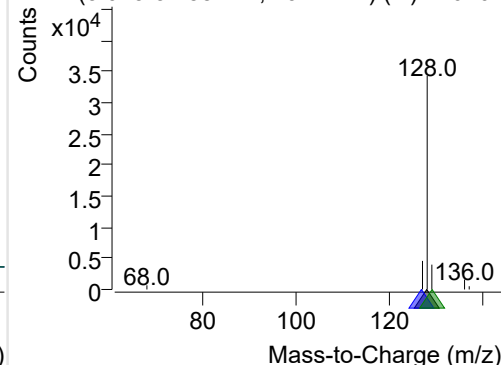
+ Selected Ion (128.0) 220707-PAHs-024.D



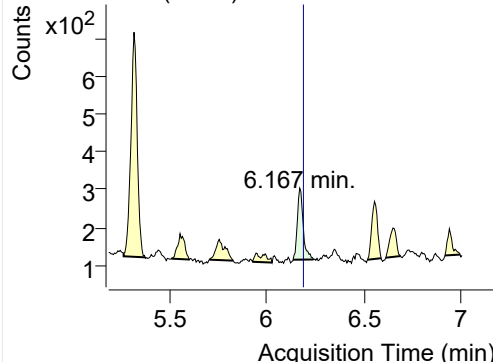
128.0, 127.0, 129.0



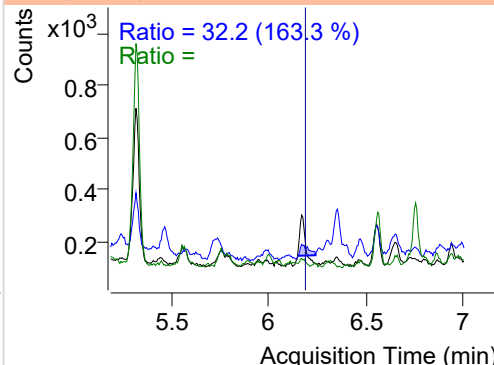
+ SIM (3.025-3.288 min, 49 scans) (**) 220707

**Acenaphthylene**

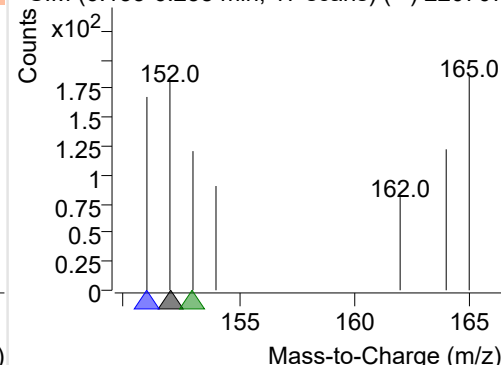
+ Selected Ion (152.0) 220707-PAHs-024.D



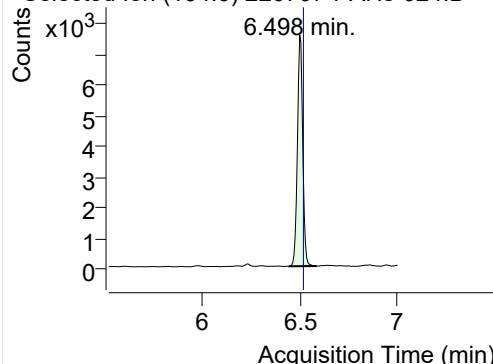
152.0, 151.0, 153.0



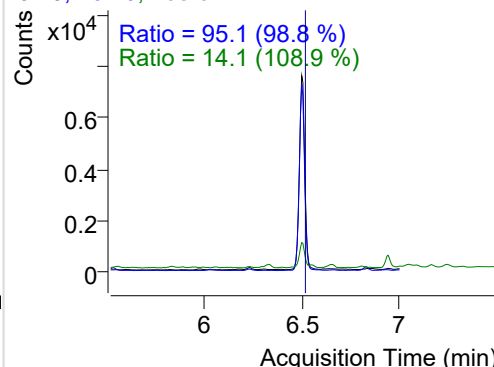
+ SIM (6.133-6.238 min, 17 scans) (**) 220707

**IS-D10-Acenaphthene**

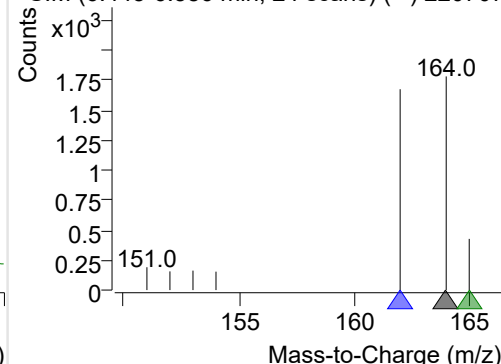
+ Selected Ion (164.0) 220707-PAHs-024.D



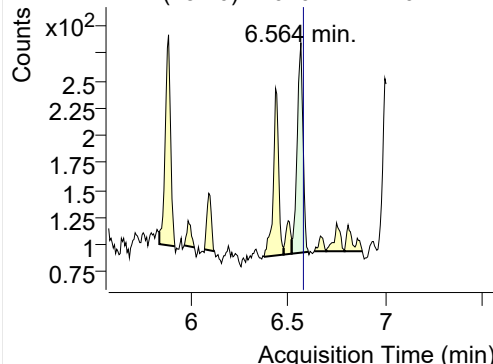
164.0, 162.0, 165.0



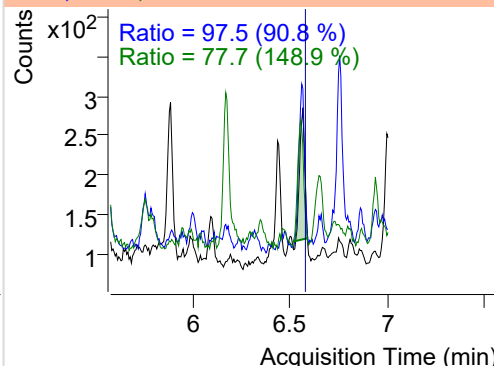
+ SIM (6.445-6.586 min, 24 scans) (**) 220707

**Acenaphthene**

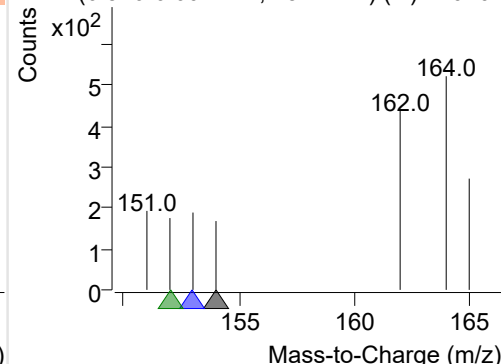
+ Selected Ion (154.0) 220707-PAHs-024.D



154.0, 153.0, 152.0

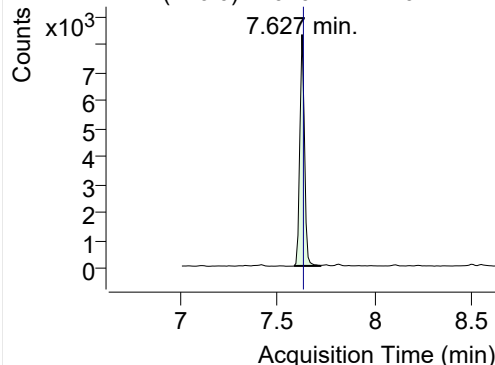


+ SIM (6.516-6.602 min, 15 scans) (**) 220707

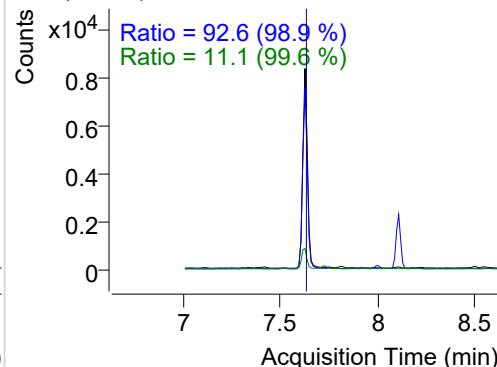


LSS-D10-Fluorene

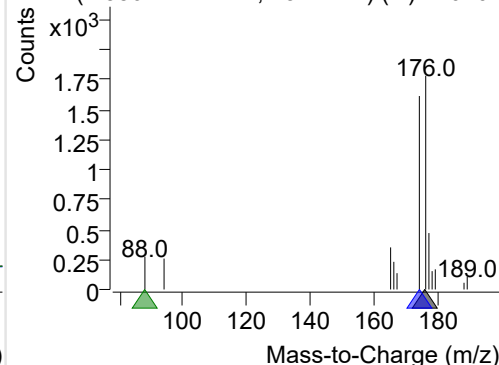
+ Selected Ion (176.0) 220707-PAHs-024.D



176.0, 174.0, 88.0

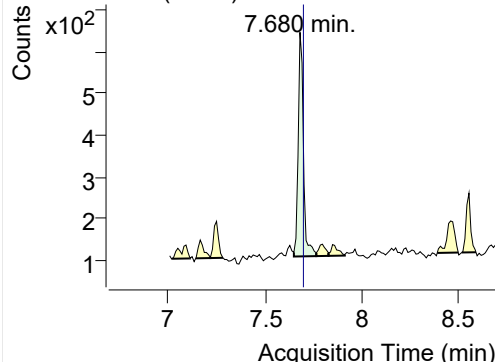


+ SIM (7.586-7.722 min, 13 scans) (**) 220707

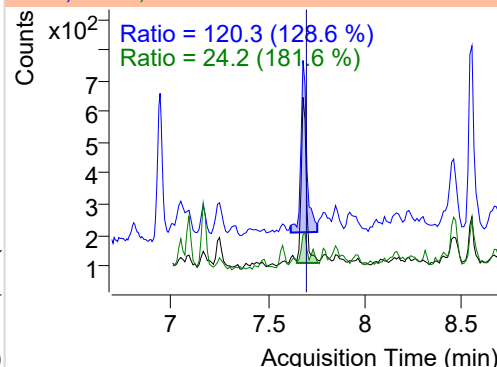


Fluorene

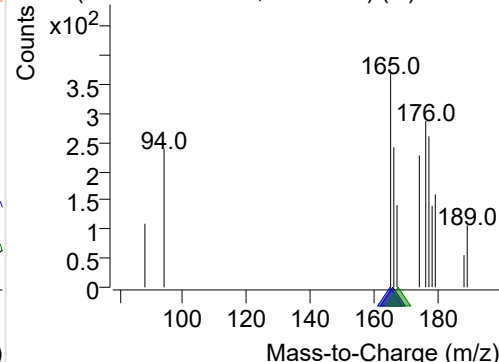
+ Selected Ion (166.0) 220707-PAHs-024.D



166.0, 165.0, 167.0

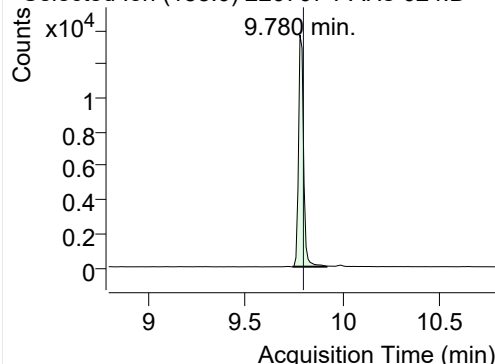


+ SIM (7.648-7.764 min, 12 scans) (**) 220707

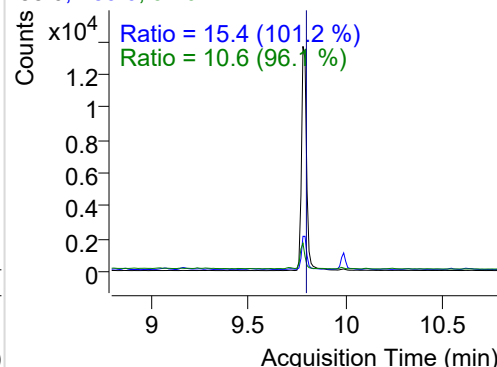


IS-D10-Phenanthrene

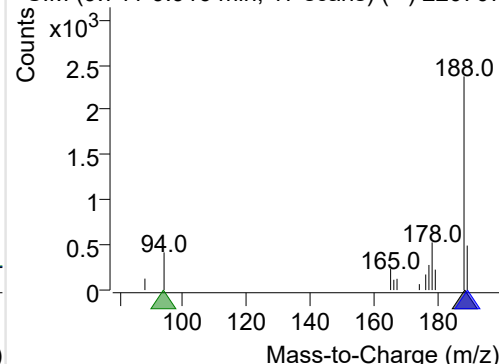
+ Selected Ion (188.0) 220707-PAHs-024.D



188.0, 189.0, 94.0

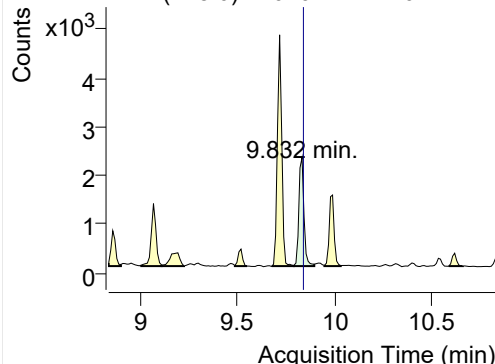


+ SIM (9.741-9.916 min, 17 scans) (**) 220707

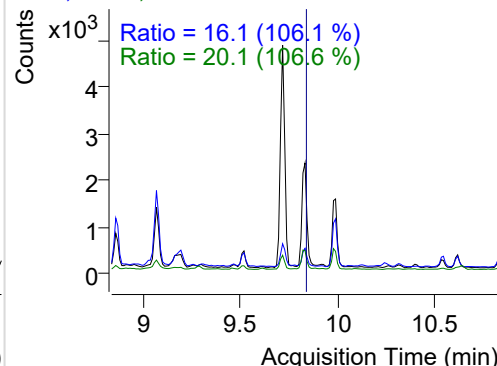


Phenanthrene

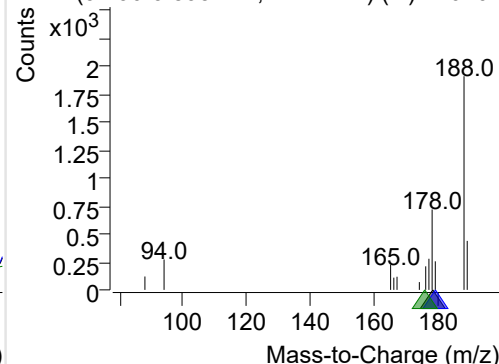
+ Selected Ion (178.0) 220707-PAHs-024.D



178.0, 179.0, 176.0

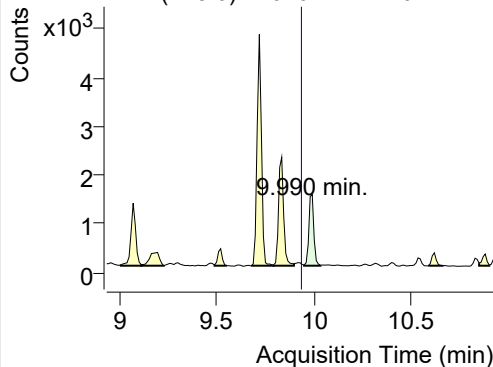


+ SIM (9.790-9.895 min, 11 scans) (**) 220707

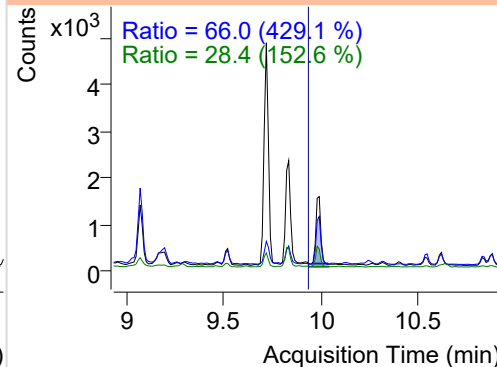


Anthracene

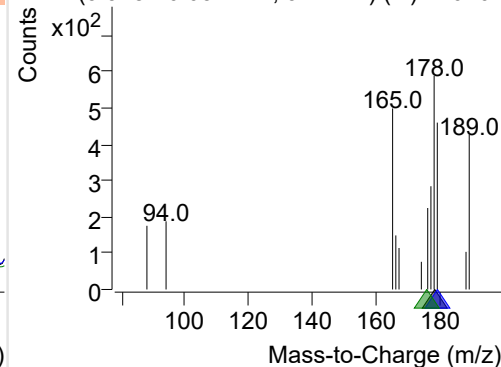
+ Selected Ion (178.0) 220707-PAHs-024.D



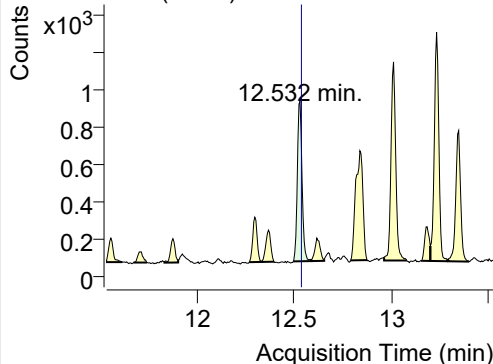
178.0, 179.0, 176.0



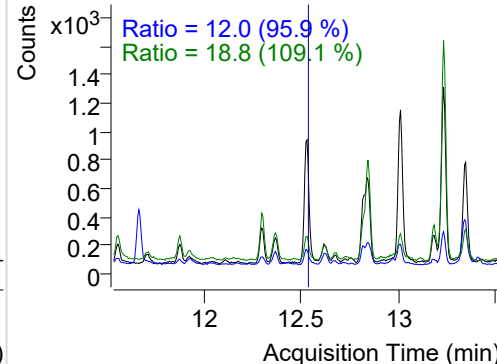
+ SIM (9.948-10.032 min, 9 scans) (**) 220707

**Fluoranthene**

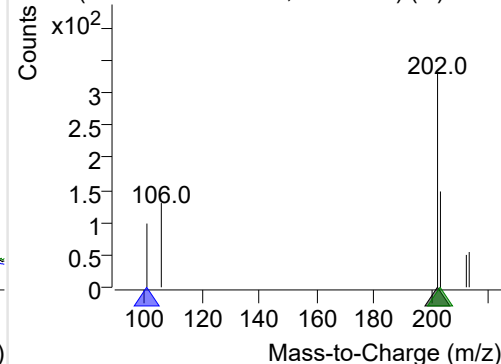
+ Selected Ion (202.0) 220707-PAHs-024.D



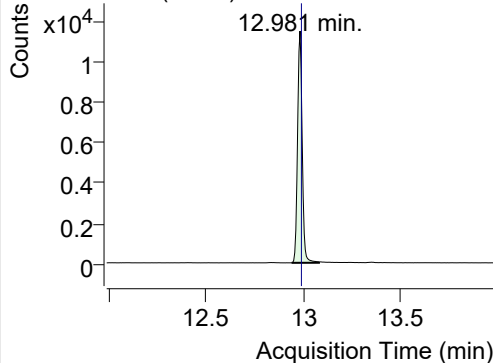
202.0, 101.0, 203.0



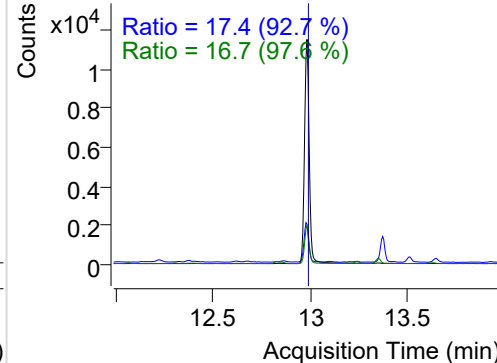
+ SIM (12.497-12.591 min, 18 scans) (**) 2207

**LSS-D10-Pyrene**

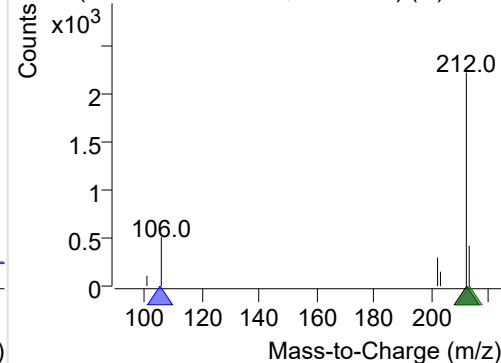
+ Selected Ion (212.0) 220707-PAHs-024.D



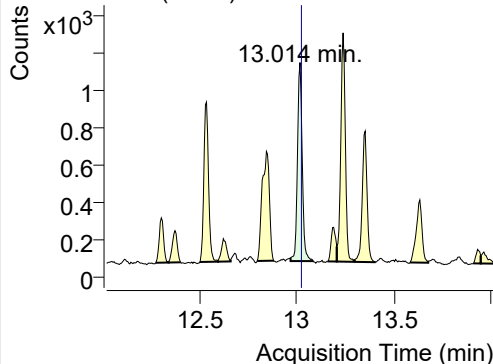
212.0, 106.0, 213.0



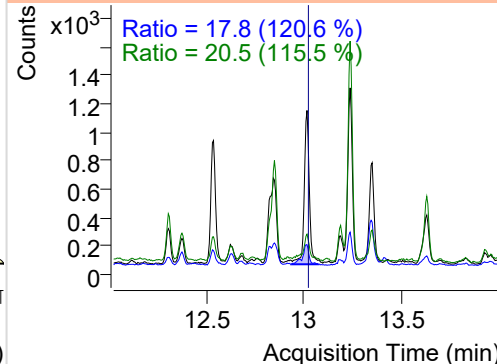
+ SIM (12.938-13.079 min, 27 scans) (**) 2207

**Pyrene**

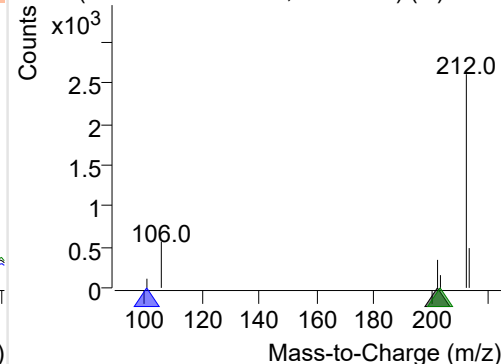
+ Selected Ion (202.0) 220707-PAHs-024.D



202.0, 101.0, 203.0



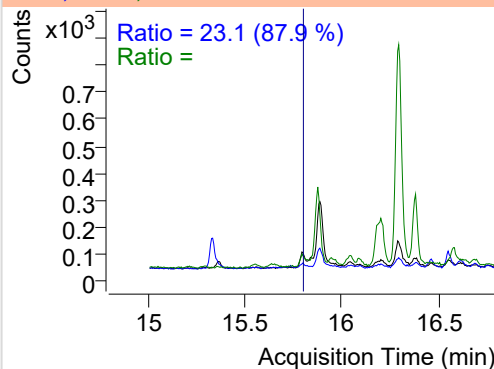
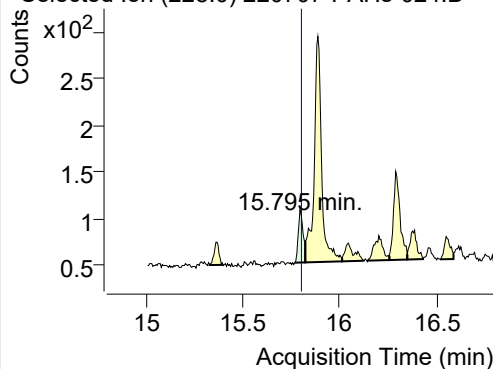
+ SIM (12.965-13.082 min, 22 scans) (**) 2207



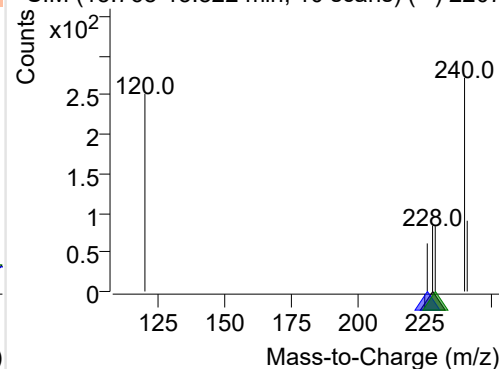
Benz(a)anthracene

+ Selected Ion (228.0) 220707-PAHs-024.D

228.0, 226.0, 229.0

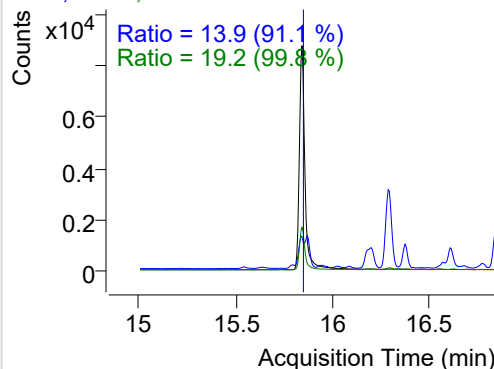
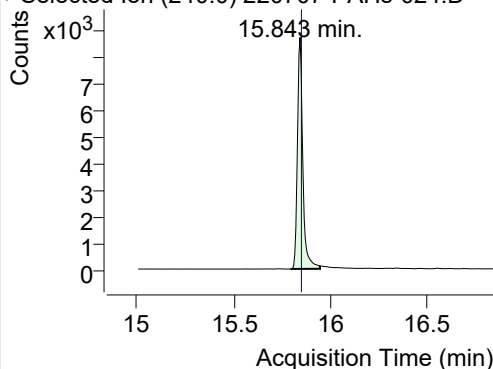


+ SIM (15.768-15.822 min, 10 scans) (**) 2207

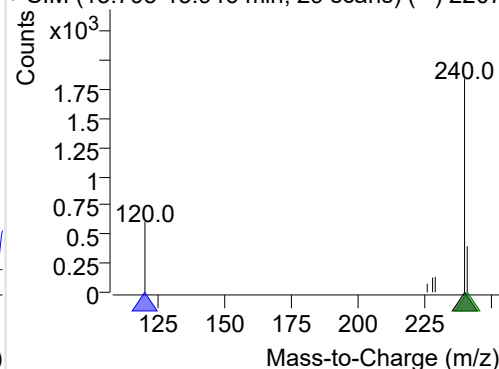
**IS-D12-Chrysene**

+ Selected Ion (240.0) 220707-PAHs-024.D

240.0, 120.0, 241.0

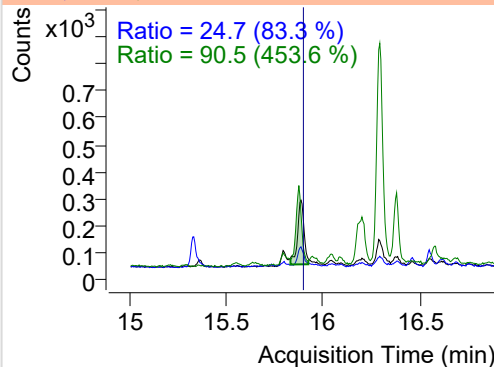
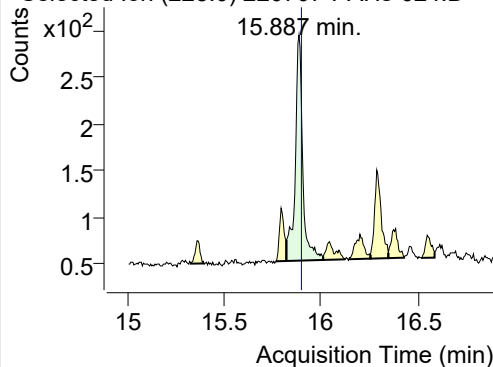


+ SIM (15.795-15.946 min, 29 scans) (**) 2207

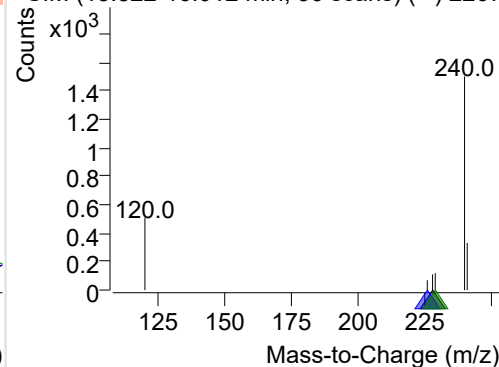
**Chrysene**

+ Selected Ion (228.0) 220707-PAHs-024.D

228.0, 226.0, 229.0

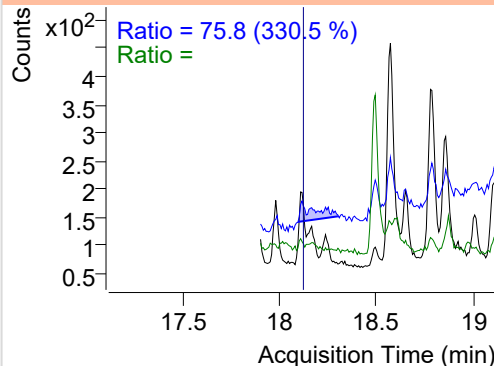
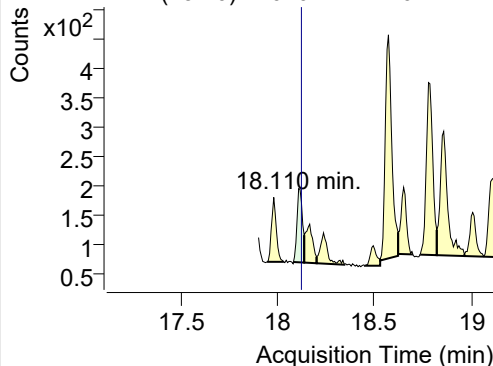


+ SIM (15.822-16.012 min, 36 scans) (**) 2207

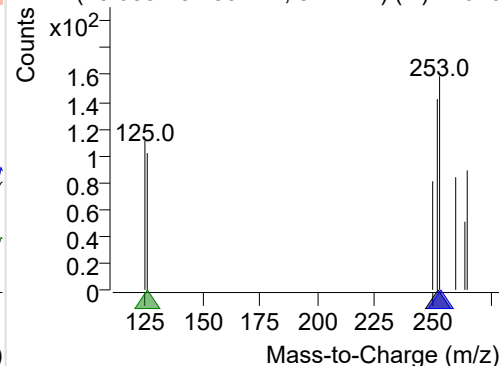
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 220707-PAHs-024.D

252.0, 253.0, 126.0



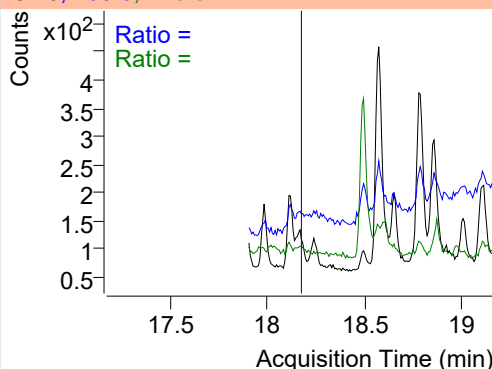
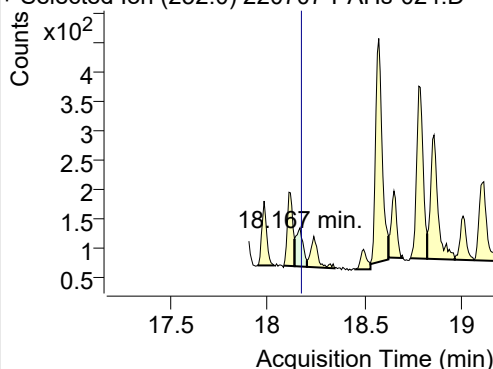
+ SIM (18.083-18.139 min, 8 scans) (**) 22070



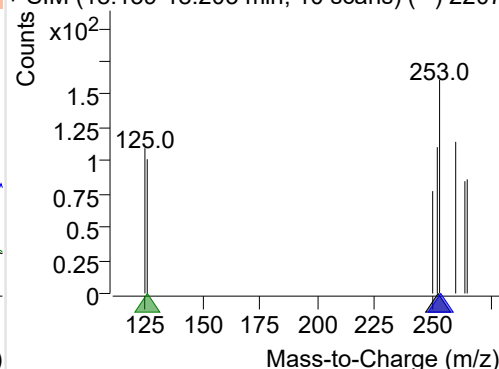
Benzo(k)fluoranthene

+ Selected Ion (252.0) 220707-PAHs-024.D

252.0, 253.0, 126.0

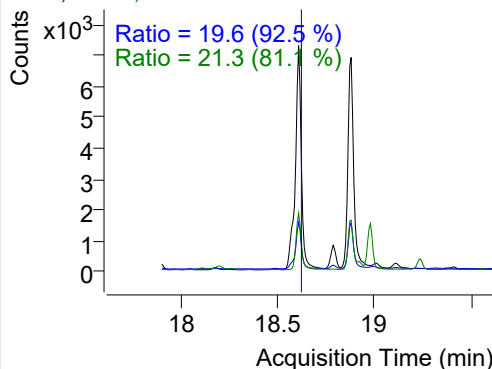
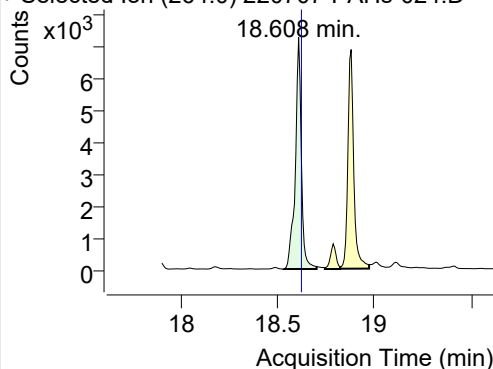


+ SIM (18.139-18.203 min, 10 scans) (**) 2207

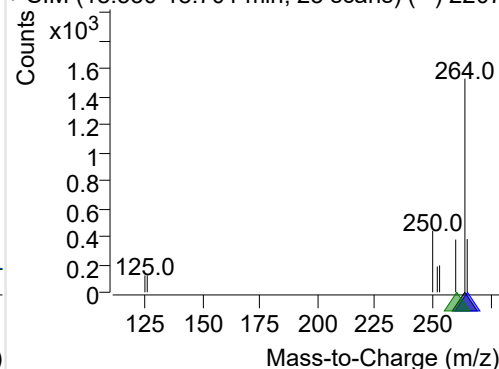
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 220707-PAHs-024.D

264.0, 265.0, 260.0

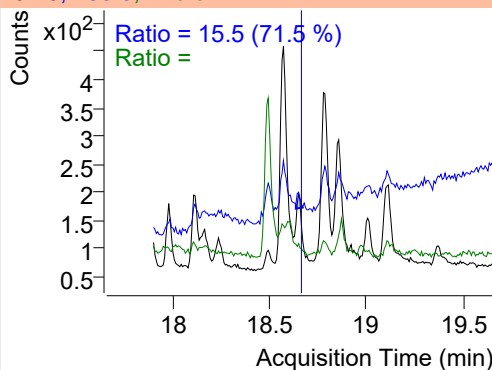
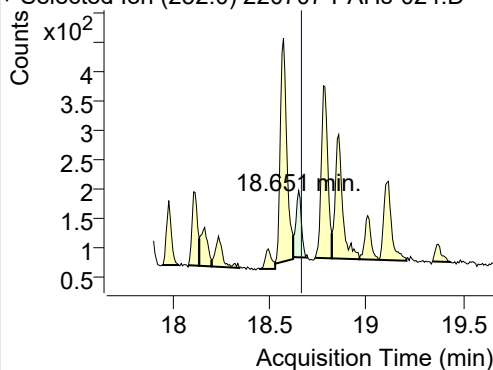


+ SIM (18.530-18.701 min, 25 scans) (**) 2207

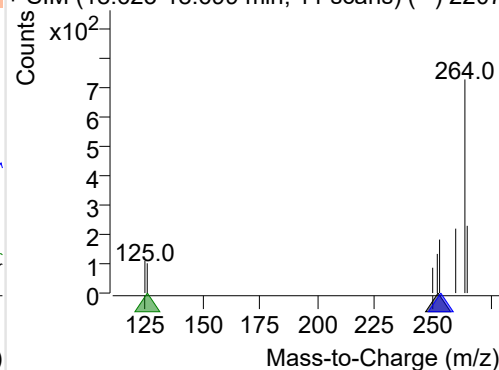
**Benzo(e)pyrene**

+ Selected Ion (252.0) 220707-PAHs-024.D

252.0, 253.0, 126.0

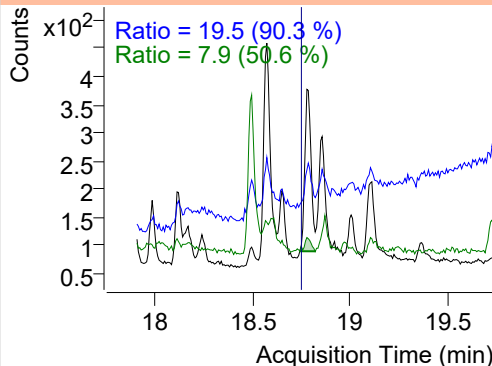
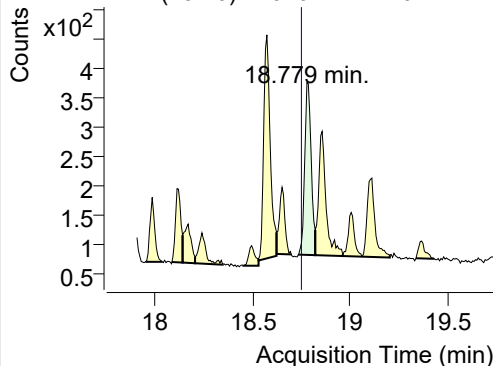


+ SIM (18.623-18.699 min, 11 scans) (**) 2207

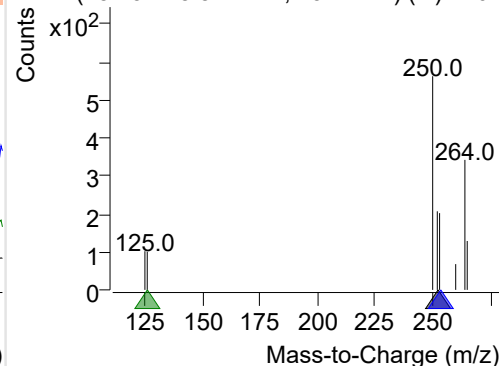
**Benzo(a)pyrene**

+ Selected Ion (252.0) 220707-PAHs-024.D

252.0, 253.0, 126.0

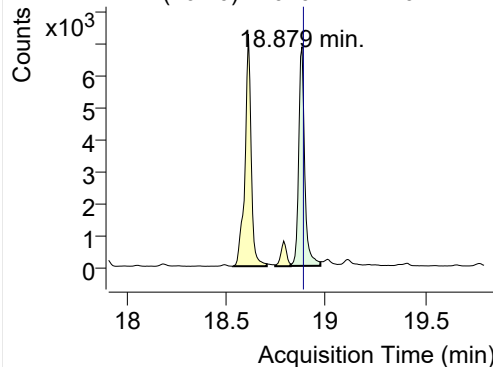


+ SIM (18.737-18.822 min, 13 scans) (**) 2207

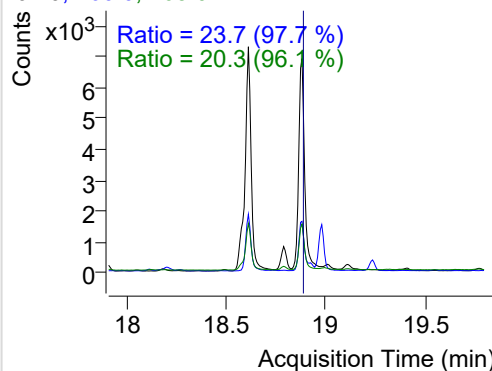


IS-D12-Perylene

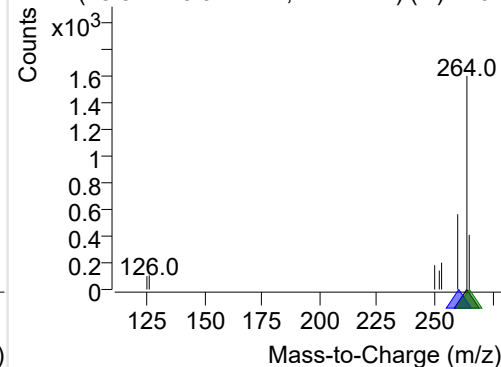
+ Selected Ion (264.0) 220707-PAHs-024.D



264.0, 260.0, 265.0

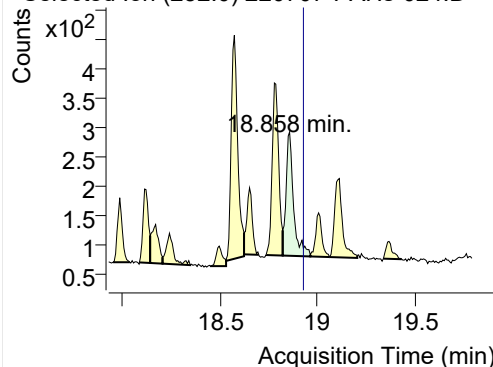


+ SIM (18.822-18.971 min, 22 scans) (**) 2207

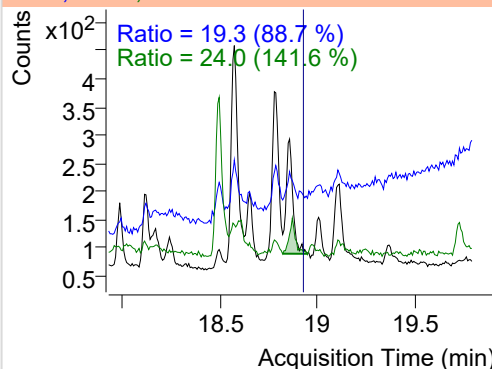


Perylene

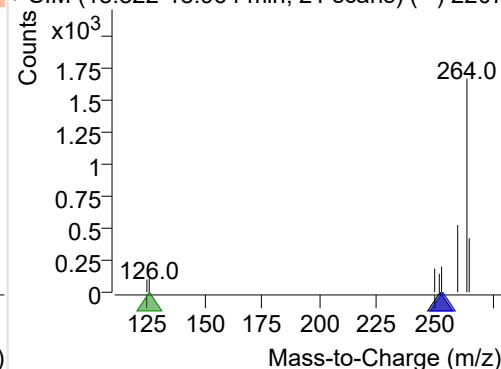
+ Selected Ion (252.0) 220707-PAHs-024.D



252.0, 253.0, 126.0

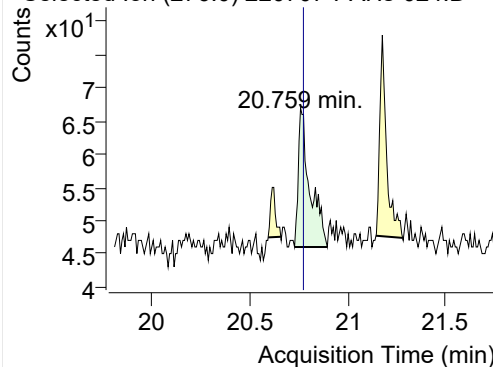


+ SIM (18.822-18.964 min, 21 scans) (**) 2207

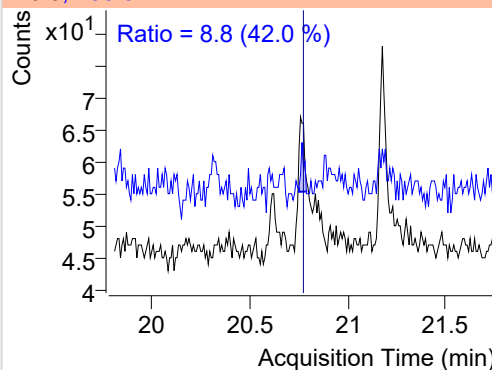


Indeno(1,2,3-c,d)pyrene

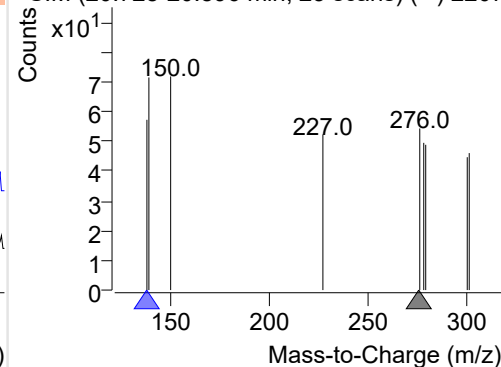
+ Selected Ion (276.0) 220707-PAHs-024.D



276.0, 138.0

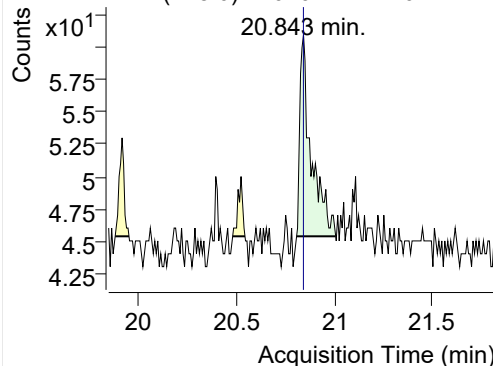


+ SIM (20.728-20.896 min, 23 scans) (**) 2207

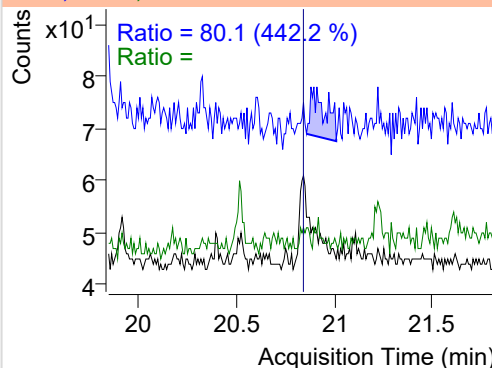


Dibenz(a,h)anthracene

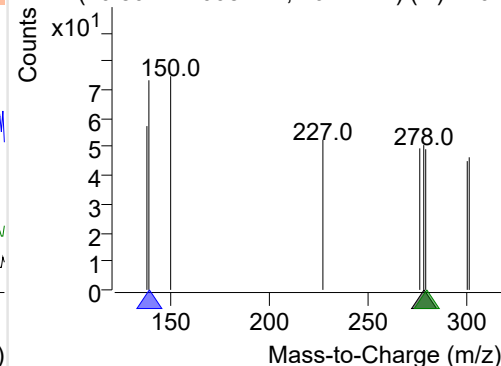
+ Selected Ion (278.0) 220707-PAHs-024.D



278.0, 139.0, 279.0



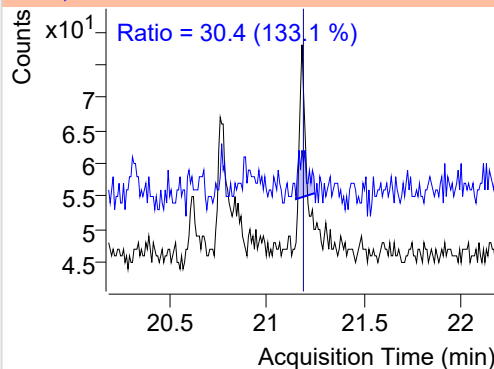
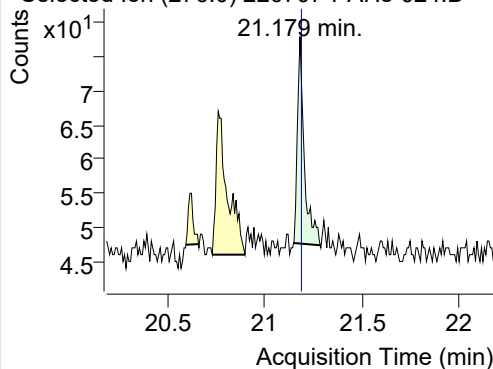
+ SIM (20.807-21.008 min, 26 scans) (**) 2207



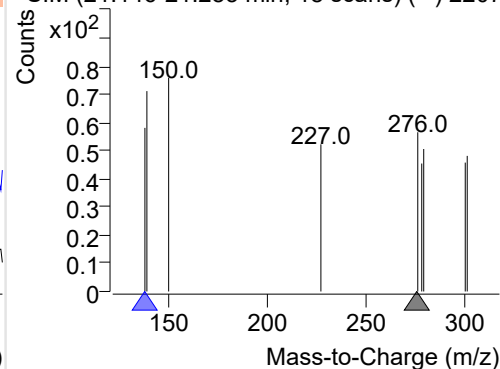
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 220707-PAHs-024.D

276.0, 138.0

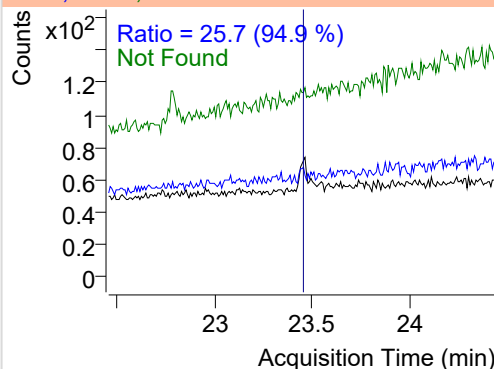
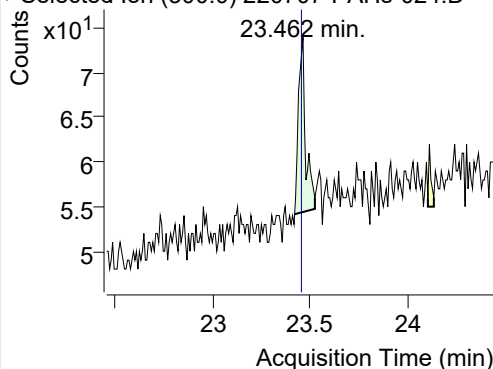


+ SIM (21.146-21.283 min, 18 scans) (**) 2207

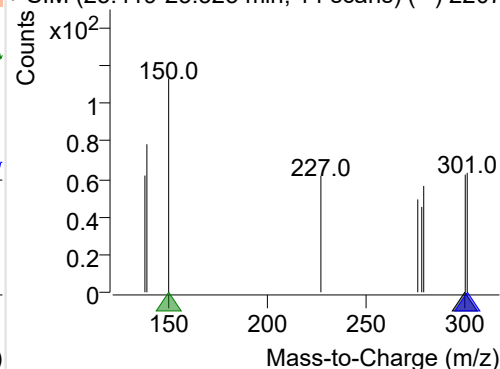
**Coronene**

+ Selected Ion (300.0) 220707-PAHs-024.D

300.0, 301.0, 150.0



+ SIM (23.419-23.523 min, 14 scans) (**) 2207



Quantitative Analysis Sample Based Report

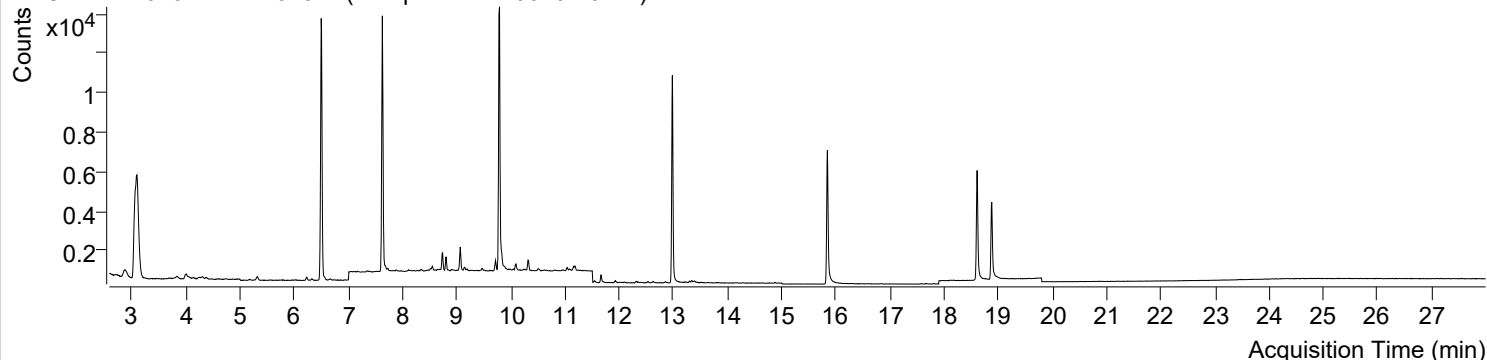


Trusted Answers

| | | | |
|---------------------------|--|-----------------------|------------------------|
| Batch Data Path File Name | D:\MassHunter\GCMS\1\data\PAHs\220707-PAHs-Sample\QuantResults\220707-PAHs-Quant.batch.bin | | |
| Analysis Time Stamp | 2022-07-09 오전 11:12:52 | Analyst Name | DESKTOP-86B7UPG\5975MS |
| Report Generation Time | 2022-07-09 오전 11:13:20 | Report Generator Name | DESKTOP-86B7UPG\5975MS |
| Calibration Last Update | 2022-07-09 오전 11:04:15 | Batch State | Processed |
| Analyze Quant Version | 10.2 | Report Quant Version | 10.2 |
| Acq. Date-Time | 2022-07-08 오전 1:46:04 | Data File | 220707-PAHs-025.D |
| Type | Sample | Name | Sample-PM-220610-10DIL |
| Dil. | 1 | Acq. Method File | PAHs 19mix-Method |

Sample Chromatogram

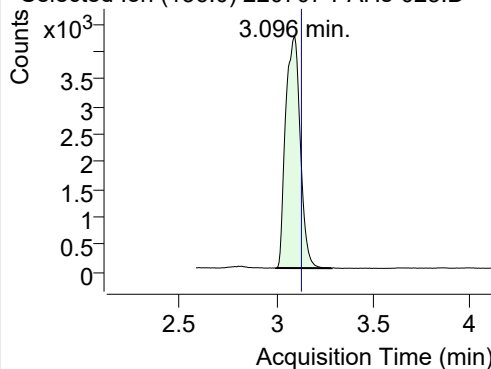
+ TIC SIM 220707-PAHs-025.D (Sample-PM-220610-10DIL)



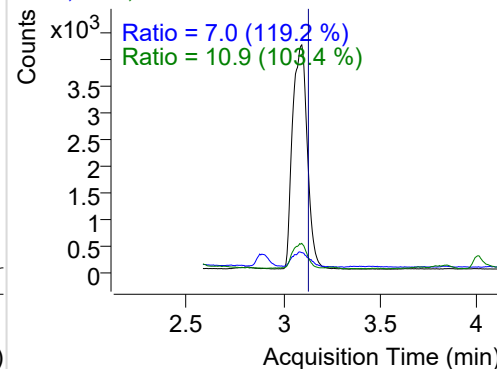
| Name | RT | Transition | Resp. | Height | Final Conc. Units | Ratio |
|-------------------------|--------|------------|-------|----------|-------------------|-------|
| IS-D8-Naphthalene | 3.096 | 136.0 | 22137 | 4210.91 | ND ng/ml | 10.9 |
| Naphthalene | 3.118 | 128.0 | 1449 | 281.62 | ND ng/ml | 17.6 |
| Acenaphthylene | 6.558 | 152.0 | 54 | 27.19 | ND ng/ml | 33.0 |
| IS-D10-Acenaphthene | 6.498 | 164.0 | 11895 | 6291.31 | ND ng/ml | 96.3 |
| Acenaphthene | 6.558 | 154.0 | 57 | 32.29 | ND ng/ml | 127.4 |
| LSS-D10-Fluorene | 7.627 | 176.0 | 9909 | 5868.46 | ND ng/ml | 92.8 |
| Fluorene | 7.680 | 166.0 | 150 | 69.13 | ND ng/ml | 111.3 |
| IS-D10-Phenanthrene | 9.790 | 188.0 | 19925 | 10954.58 | ND ng/ml | 15.0 |
| Phenanthrene | 9.832 | 178.0 | 765 | 356.08 | ND ng/ml | 17.1 |
| Anthracene | 9.832 | 178.0 | 765 | 356.08 | ND ng/ml | 17.1 |
| Fluoranthene | 12.532 | 202.0 | 76 | 40.60 | ND ng/ml | 22.1 |
| LSS-D10-Pyrene | 12.981 | 212.0 | 13039 | 7808.63 | ND ng/ml | 17.3 |
| Pyrene | 13.014 | 202.0 | 107 | 46.60 | ND ng/ml | 70.0 |
| Benz(a)anthracene | 15.843 | 228.0 | 43 | 15.02 | ND ng/ml | |
| IS-D12-Chrysene | 15.843 | 240.0 | 10105 | 5095.17 | ND ng/ml | 19.1 |
| Chrysene | 15.892 | 228.0 | 54 | 18.02 | ND ng/ml | 33.8 |
| Benzo(b)fluoranthene | 18.117 | 252.0 | 28 | 8.46 | ND ng/ml | |
| Benzo(k)fluoranthene | 18.117 | 252.0 | 28 | 8.46 | ND ng/ml | |
| SS-D12-Benzo(e)pyrene | 18.608 | 264.0 | 7476 | 3770.64 | ND ng/ml | 25.7 |
| Benzo(e)pyrene | 18.658 | 252.0 | 24 | 10.94 | ND ng/ml | |
| Benzo(a)pyrene | 18.765 | 252.0 | 18 | 6.26 | ND ng/ml | |
| IS-D12-Perylene | 18.879 | 264.0 | 5635 | 2687.33 | ND ng/ml | 22.8 |
| Perylene | 18.872 | 252.0 | 31 | 11.57 | ND ng/ml | |
| Indeno(1,2,3-c,d)pytene | 20.766 | 276.0 | 10 | 7.08 | ND ng/ml | |
| Dibenz(a,h)anthracene | 20.843 | 278.0 | 25 | 8.35 | ND ng/ml | |
| Benzo(g,h,i)perylene | 21.186 | 276.0 | 14 | 6.78 | ND ng/ml | |
| Coronene | 23.447 | 300.0 | 23 | 8.99 | ND ng/ml | |

IS-D8-Naphthalene

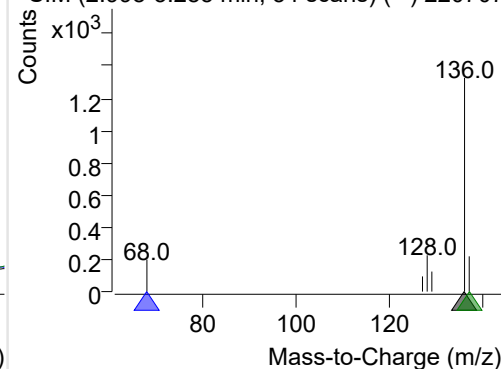
+ Selected Ion (136.0) 220707-PAHs-025.D



136.0, 68.0, 137.0

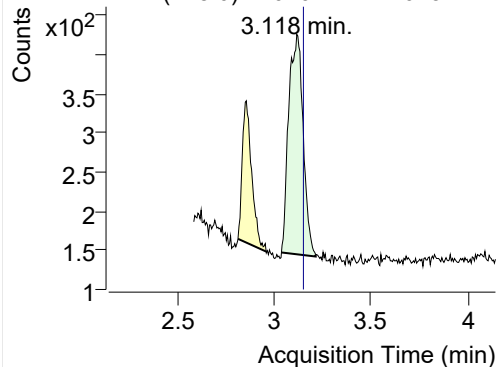


+ SIM (2.998-3.285 min, 54 scans) (**) 220707

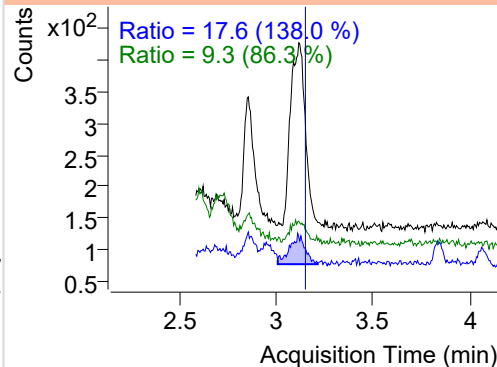


Naphthalene

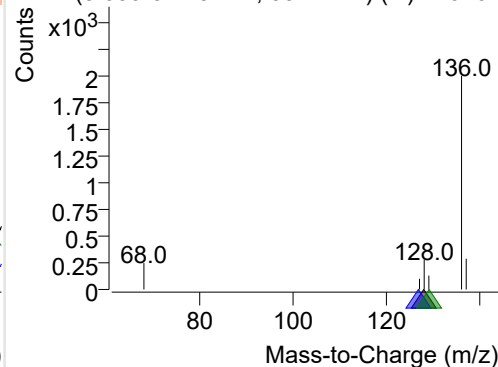
+ Selected Ion (128.0) 220707-PAHs-025.D



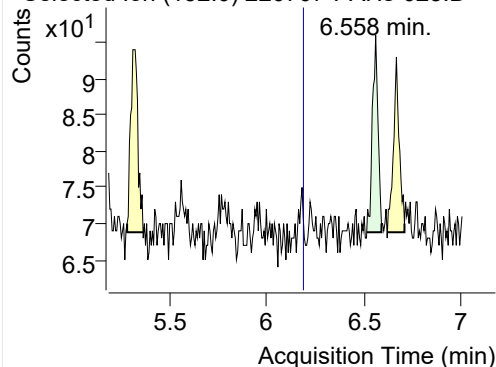
128.0, 127.0, 129.0



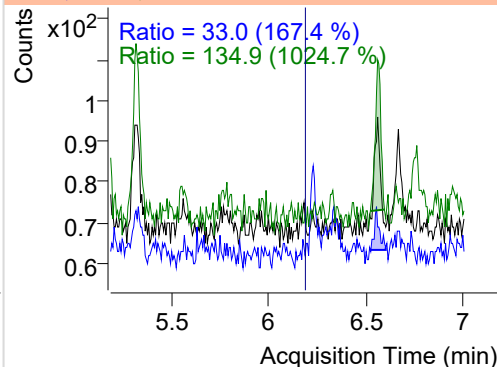
+ SIM (3.039-3.215 min, 33 scans) (**) 220707

**Acenaphthylene**

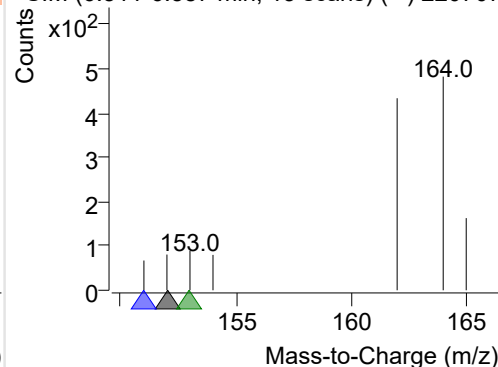
+ Selected Ion (152.0) 220707-PAHs-025.D



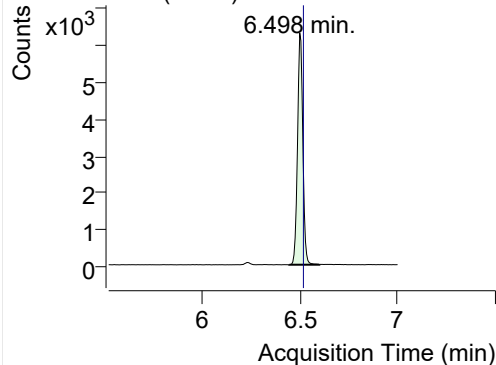
152.0, 151.0, 153.0



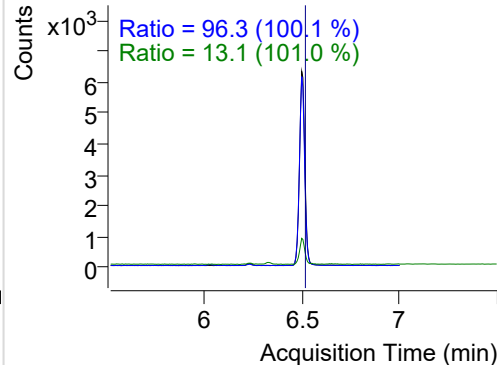
+ SIM (6.511-6.587 min, 13 scans) (**) 220707

**IS-D10-Acenaphthene**

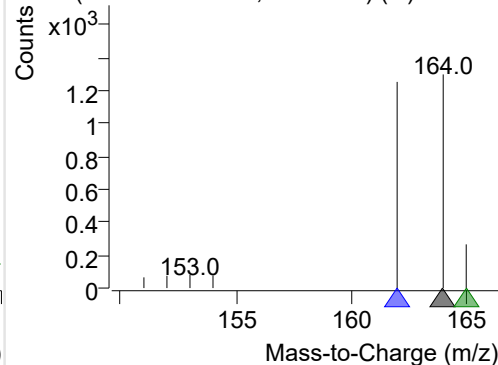
+ Selected Ion (164.0) 220707-PAHs-025.D



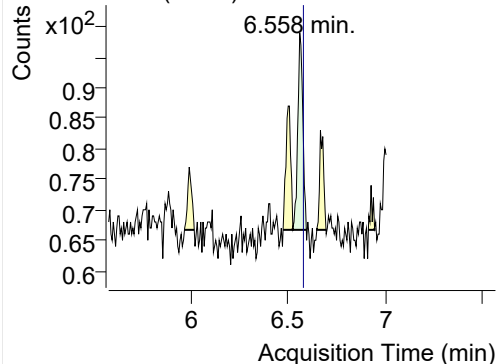
164.0, 162.0, 165.0



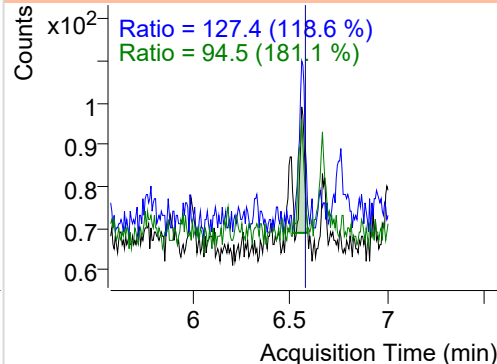
+ SIM (6.445-6.599 min, 27 scans) (**) 220707

**Acenaphthene**

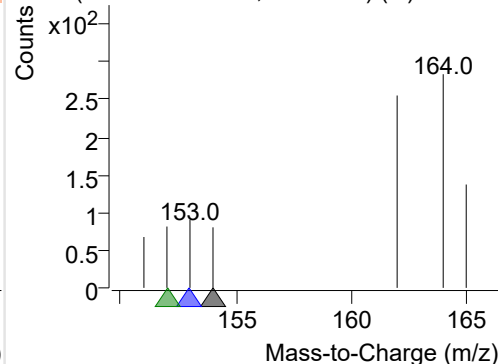
+ Selected Ion (154.0) 220707-PAHs-025.D



154.0, 153.0, 152.0

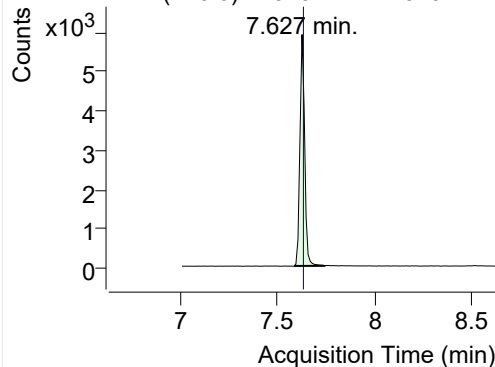


+ SIM (6.522-6.591 min, 12 scans) (**) 220707

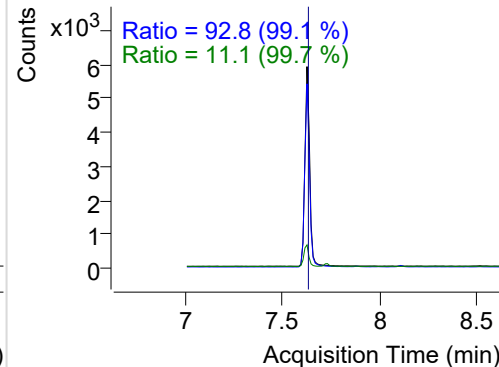


LSS-D10-Fluorene

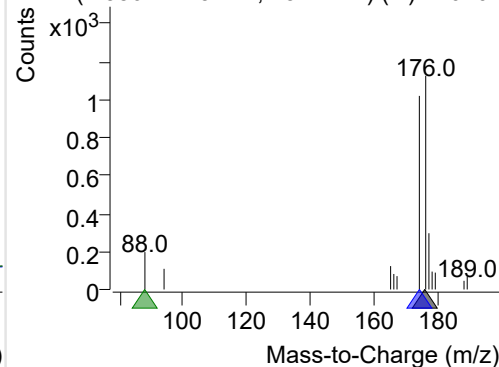
+ Selected Ion (176.0) 220707-PAHs-025.D



176.0, 174.0, 88.0

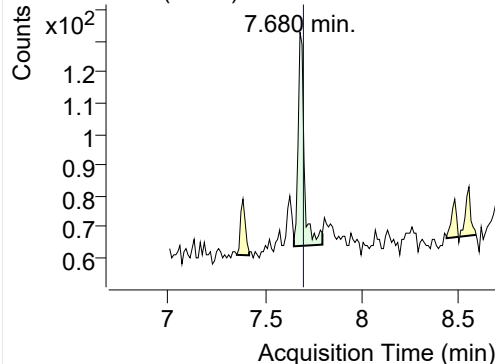


+ SIM (7.586-7.743 min, 15 scans) (**) 220707

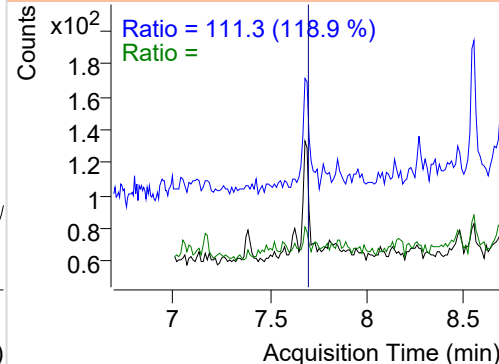


Fluorene

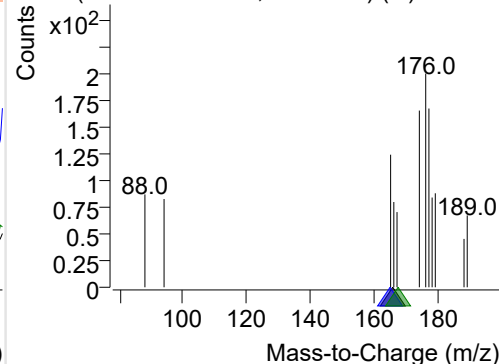
+ Selected Ion (166.0) 220707-PAHs-025.D



166.0, 165.0, 167.0

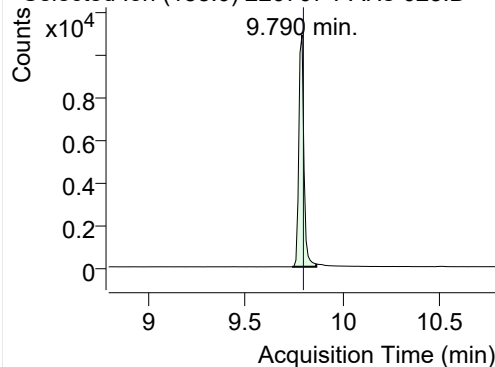


+ SIM (7.648-7.795 min, 15 scans) (**) 220707

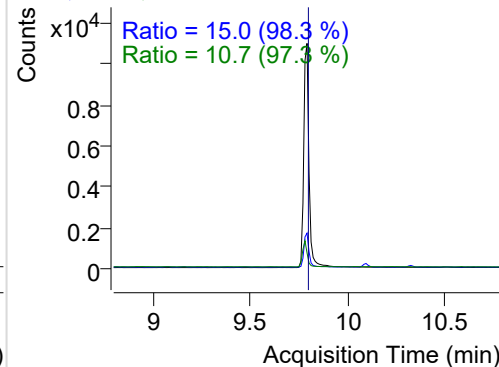


IS-D10-Phenanthrene

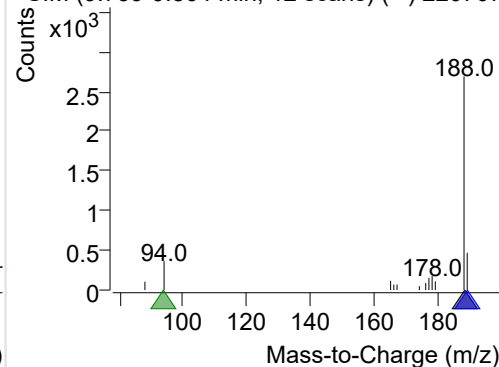
+ Selected Ion (188.0) 220707-PAHs-025.D



188.0, 189.0, 94.0

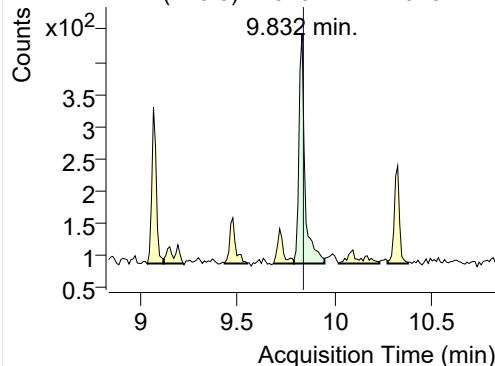


+ SIM (9.739-9.864 min, 12 scans) (**) 220707

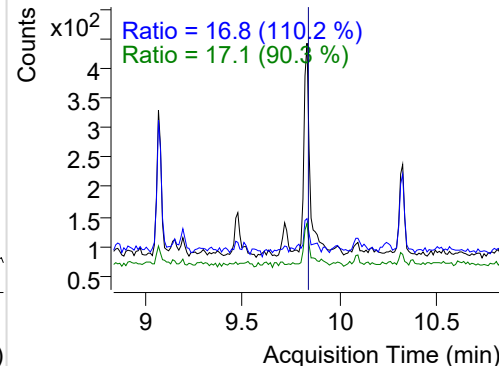


Phenanthrene

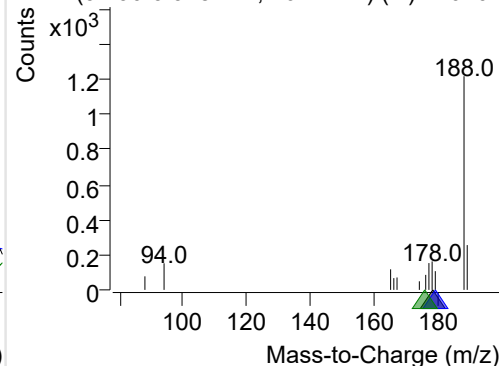
+ Selected Ion (178.0) 220707-PAHs-025.D



178.0, 179.0, 176.0

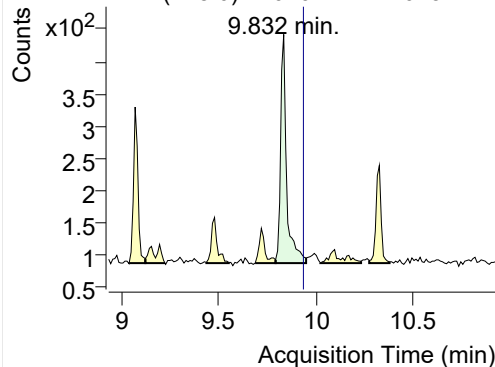


+ SIM (9.790-9.948 min, 16 scans) (**) 220707

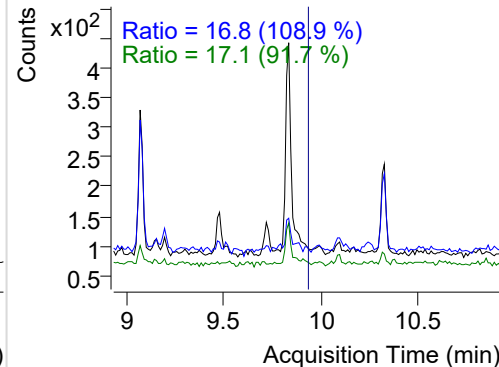


Anthracene

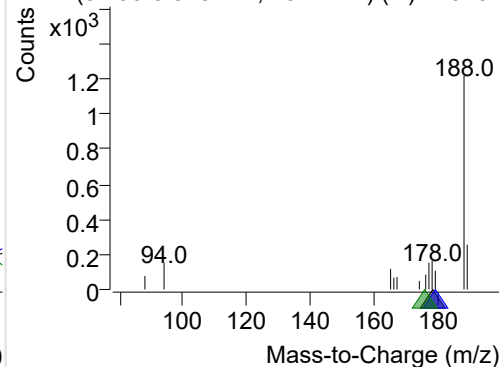
+ Selected Ion (178.0) 220707-PAHs-025.D



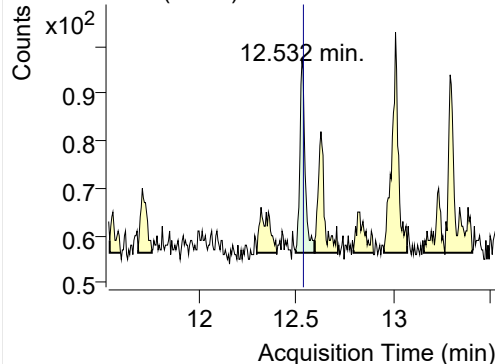
178.0, 179.0, 176.0



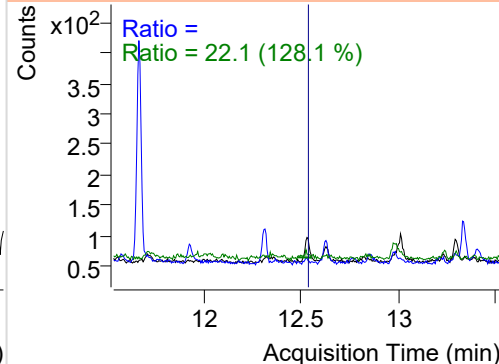
+ SIM (9.790-9.948 min, 16 scans) (**) 220707

**Fluoranthene**

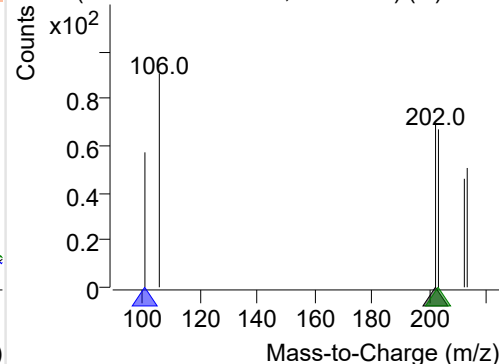
+ Selected Ion (202.0) 220707-PAHs-025.D



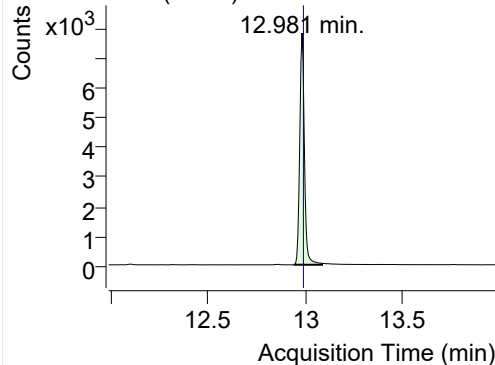
202.0, 101.0, 203.0



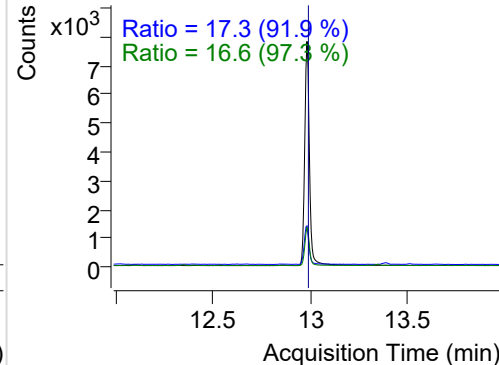
+ SIM (12.499-12.597 min, 19 scans) (**) 2207

**LSS-D10-Pyrene**

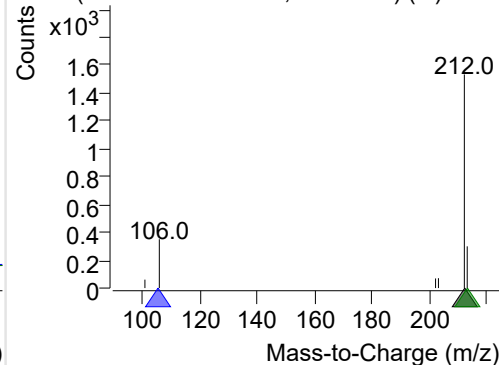
+ Selected Ion (212.0) 220707-PAHs-025.D



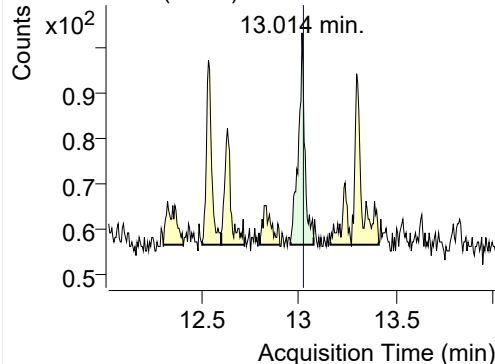
212.0, 106.0, 213.0



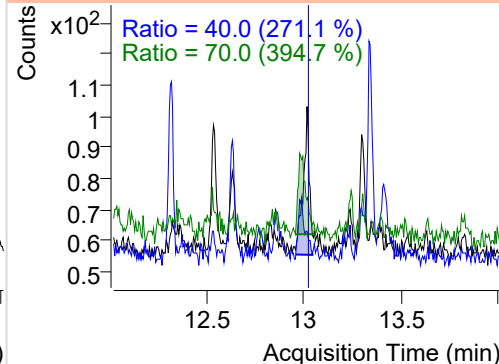
+ SIM (12.939-13.084 min, 27 scans) (**) 2207

**Pyrene**

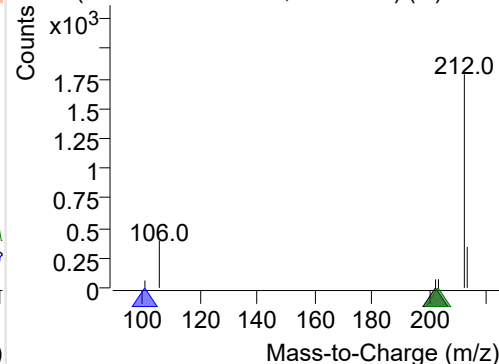
+ Selected Ion (202.0) 220707-PAHs-025.D



202.0, 101.0, 203.0



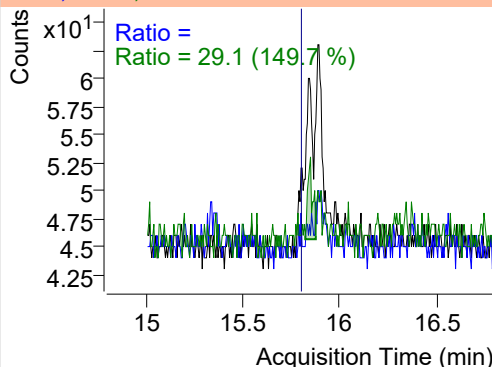
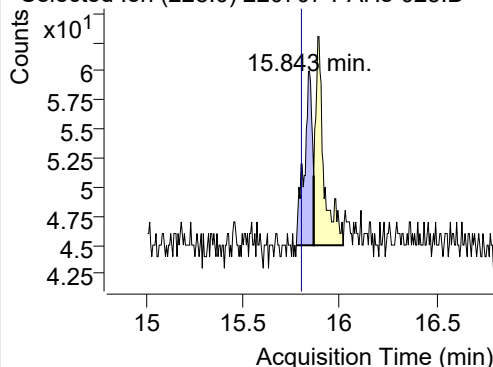
+ SIM (12.954-13.074 min, 23 scans) (**) 2207



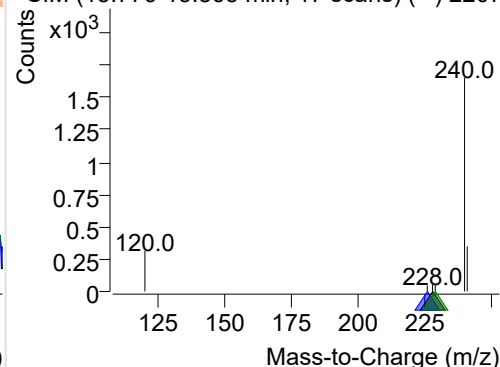
Benz(a)anthracene

+ Selected Ion (228.0) 220707-PAHs-025.D

228.0, 226.0, 229.0

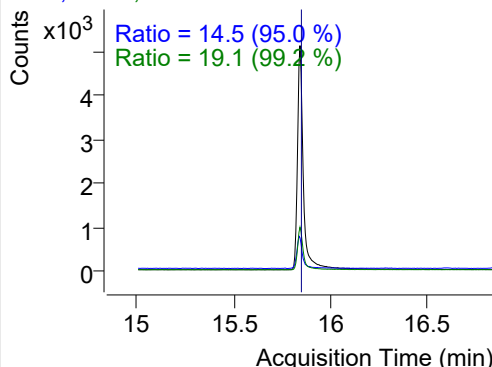
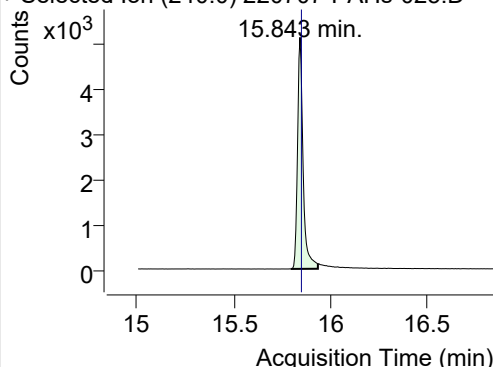


+ SIM (15.776-15.865 min, 17 scans) (**) 2207

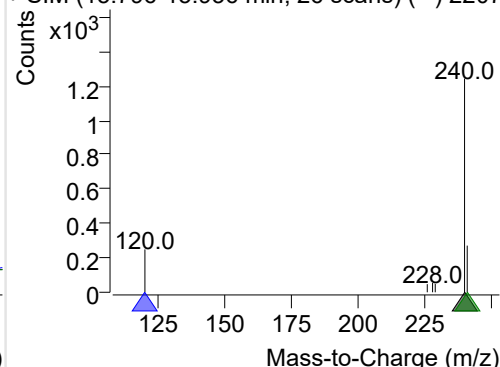
**IS-D12-Chrysene**

+ Selected Ion (240.0) 220707-PAHs-025.D

240.0, 120.0, 241.0

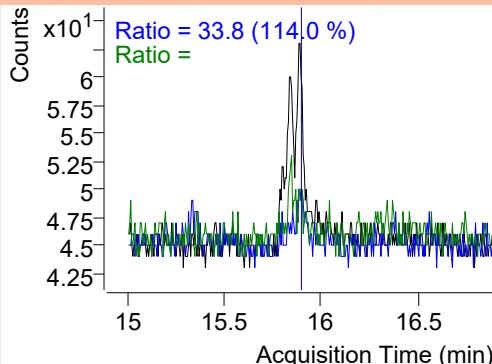
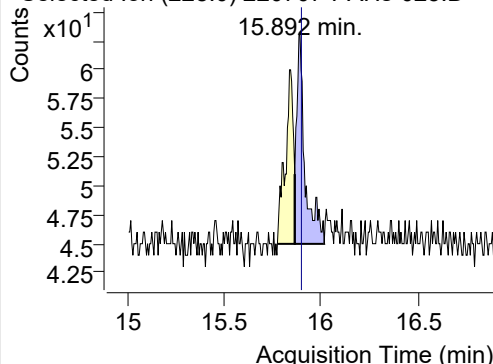


+ SIM (15.796-15.936 min, 26 scans) (**) 2207

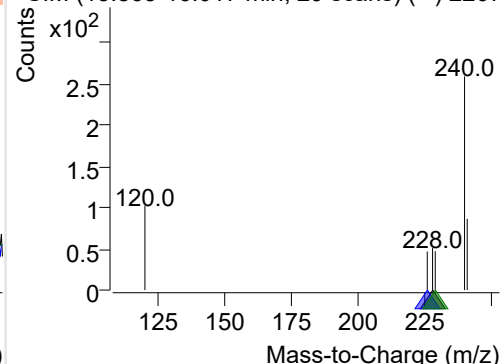
**Chrysene**

+ Selected Ion (228.0) 220707-PAHs-025.D

228.0, 226.0, 229.0

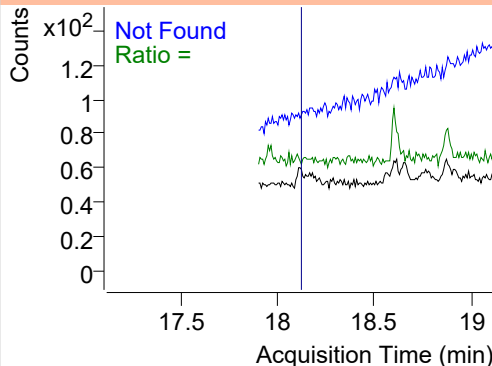
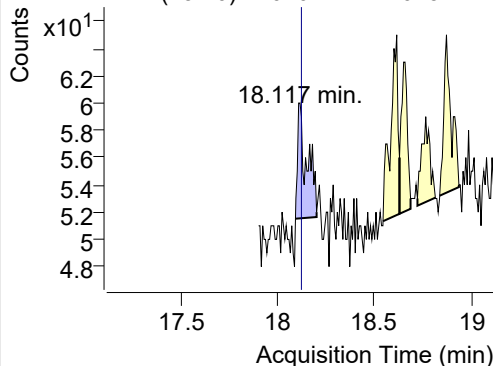


+ SIM (15.865-16.017 min, 29 scans) (**) 2207

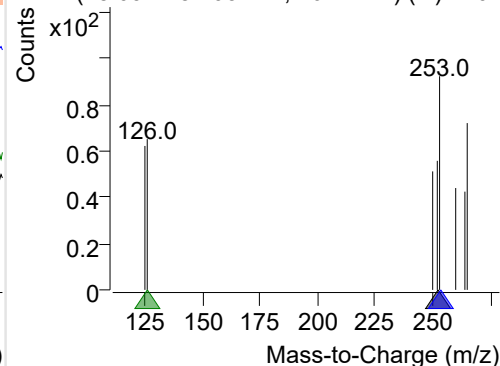
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 220707-PAHs-025.D

252.0, 253.0, 126.0



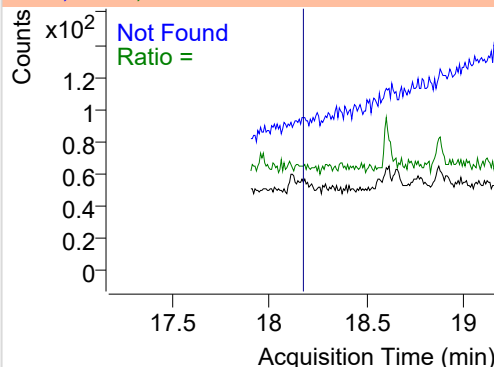
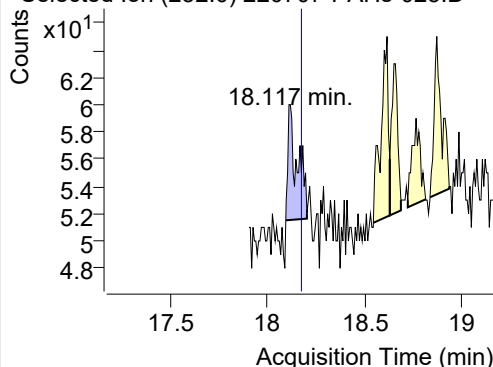
+ SIM (18.094-18.203 min, 16 scans) (**) 2207



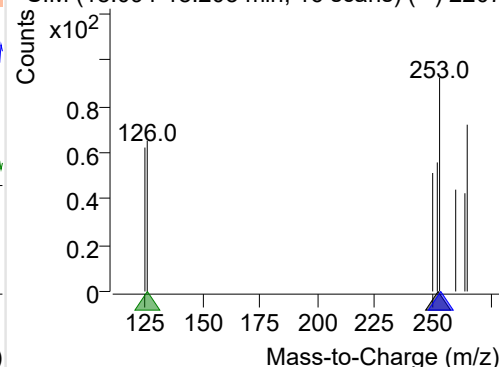
Benzo(k)fluoranthene

+ Selected Ion (252.0) 220707-PAHs-025.D

252.0, 253.0, 126.0

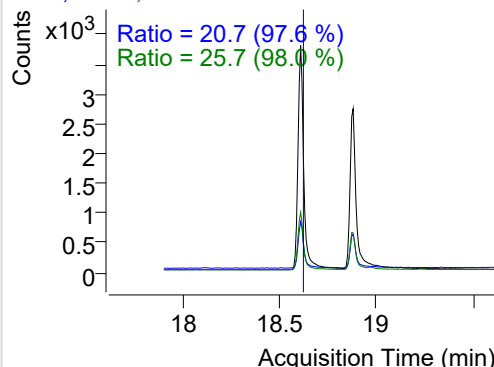
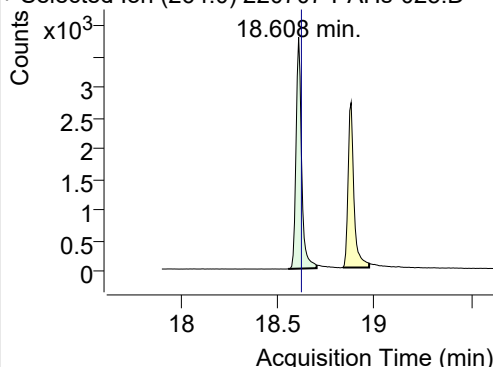


+ SIM (18.094-18.203 min, 16 scans) (**) 2207

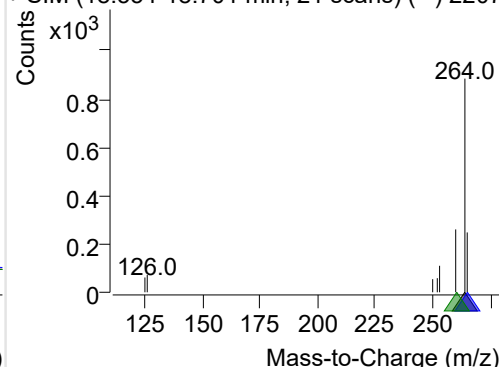
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 220707-PAHs-025.D

264.0, 265.0, 260.0

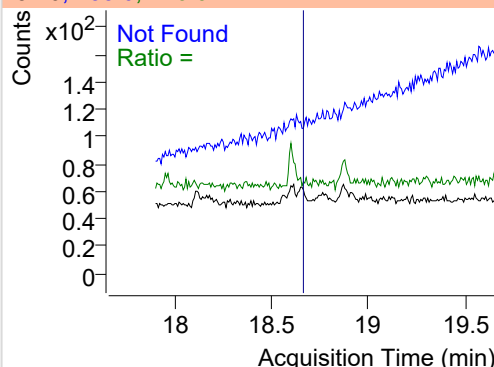
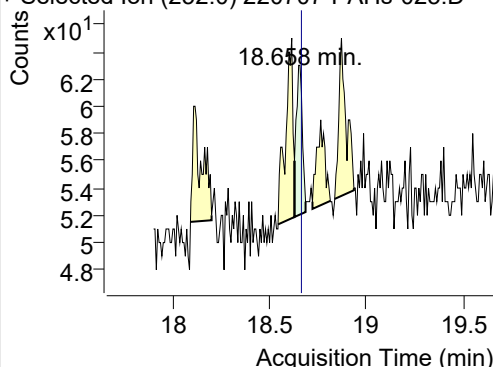


+ SIM (18.554-18.701 min, 21 scans) (**) 2207

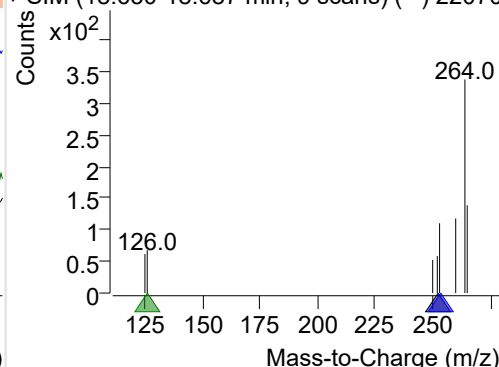
**Benzo(e)pyrene**

+ Selected Ion (252.0) 220707-PAHs-025.D

252.0, 253.0, 126.0

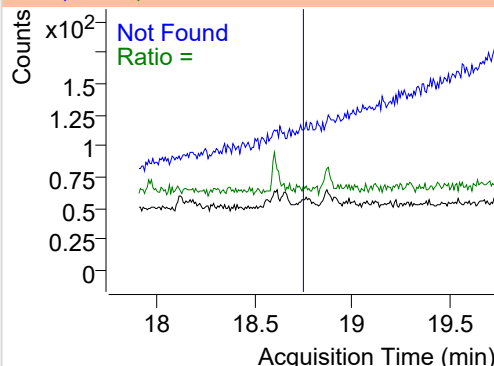
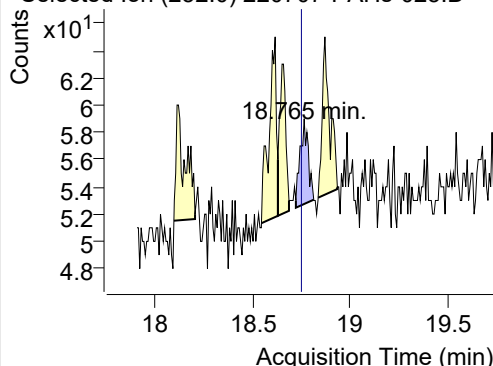


+ SIM (18.630-18.687 min, 9 scans) (**) 22070

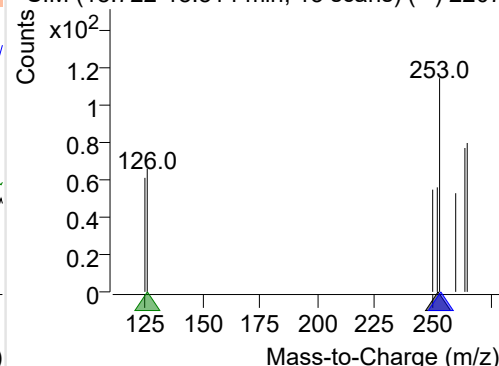
**Benzo(a)pyrene**

+ Selected Ion (252.0) 220707-PAHs-025.D

252.0, 253.0, 126.0

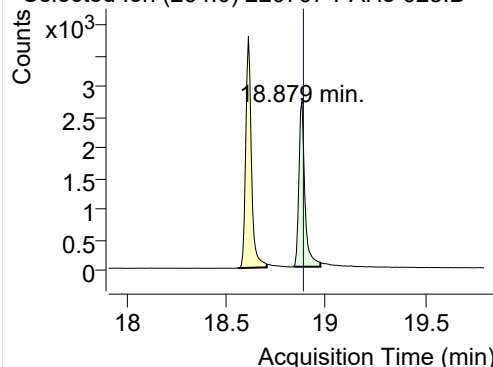


+ SIM (18.722-18.814 min, 13 scans) (**) 2207

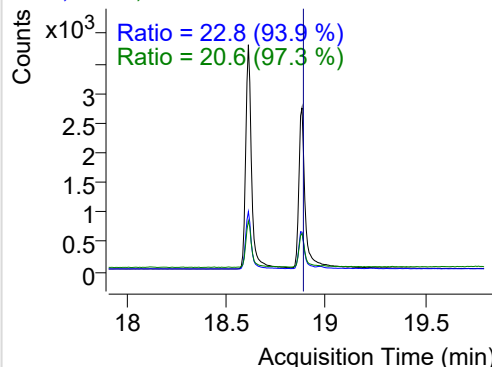


IS-D12-Perylene

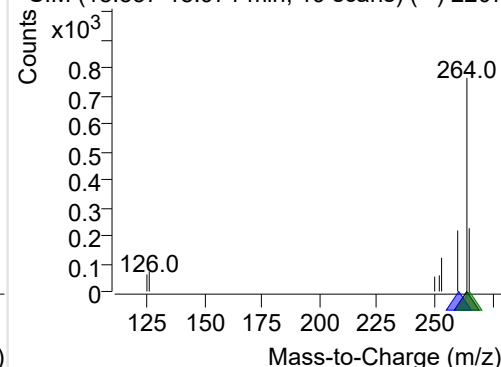
+ Selected Ion (264.0) 220707-PAHs-025.D



264.0, 260.0, 265.0

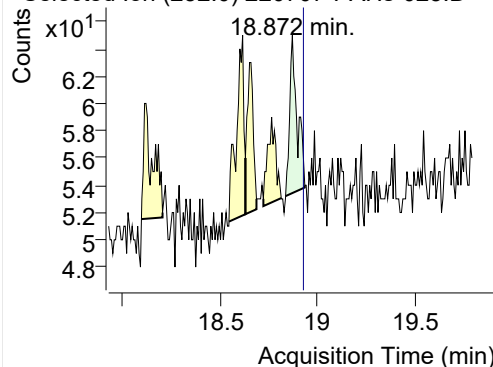


+ SIM (18.837-18.971 min, 19 scans) (**) 2207

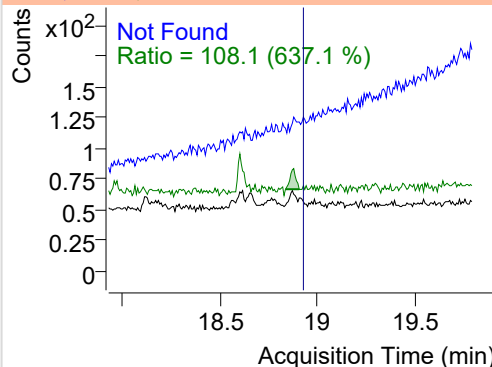


Perylene

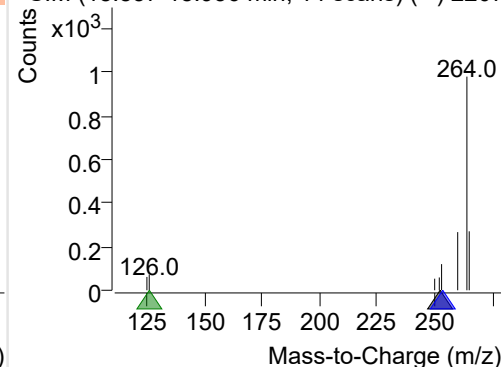
+ Selected Ion (252.0) 220707-PAHs-025.D



252.0, 253.0, 126.0

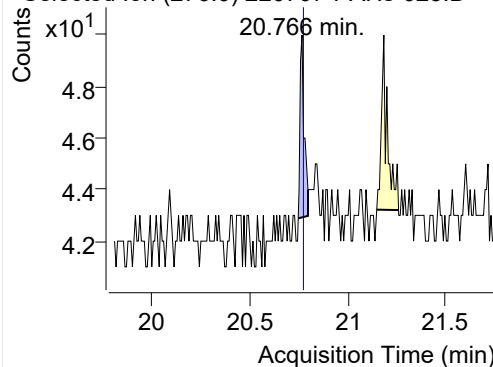


+ SIM (18.837-18.936 min, 14 scans) (**) 2207

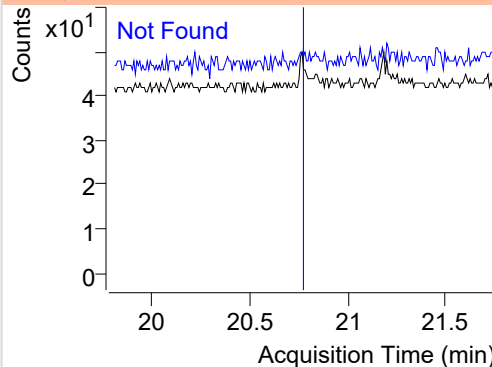


Indeno(1,2,3-c,d)pyrene

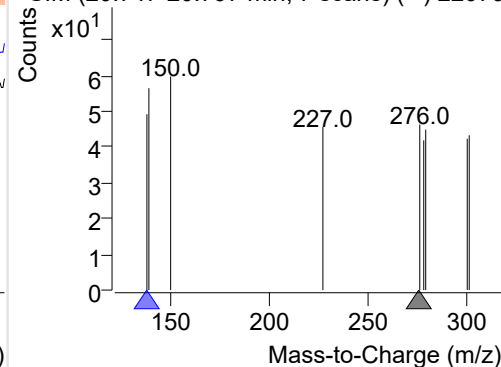
+ Selected Ion (276.0) 220707-PAHs-025.D



276.0, 138.0

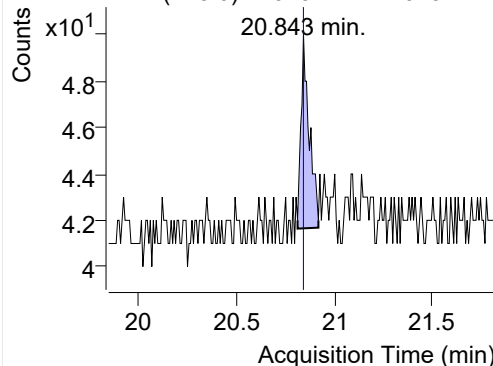


+ SIM (20.747-20.797 min, 7 scans) (**) 22070

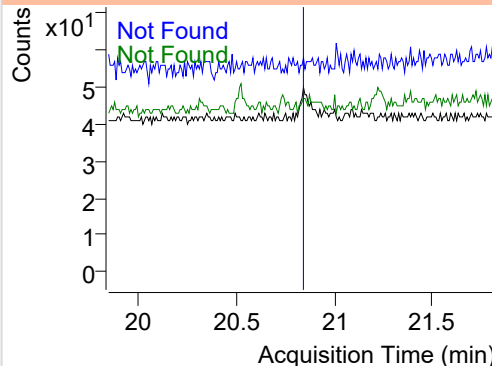


Dibenz(a,h)anthracene

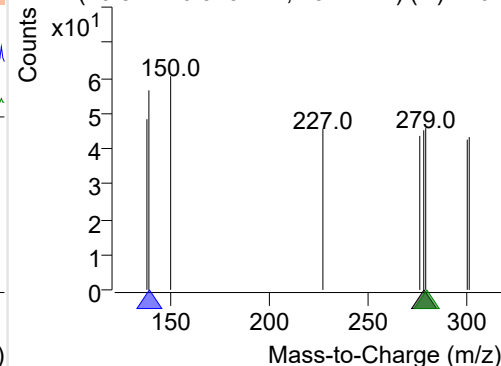
+ Selected Ion (278.0) 220707-PAHs-025.D



278.0, 139.0, 279.0



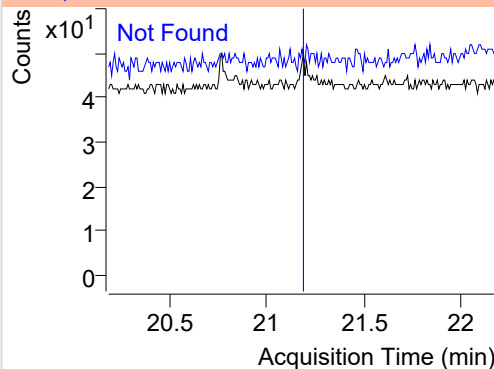
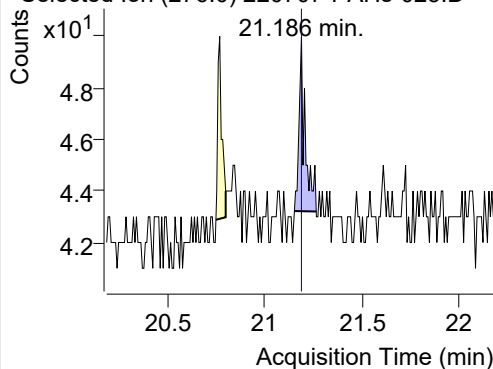
+ SIM (20.812-20.919 min, 15 scans) (**) 2207



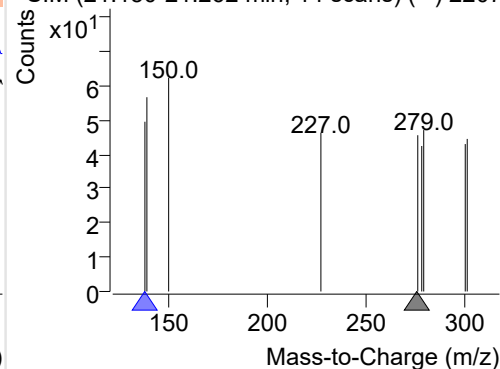
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 220707-PAHs-025.D

276.0, 138.0

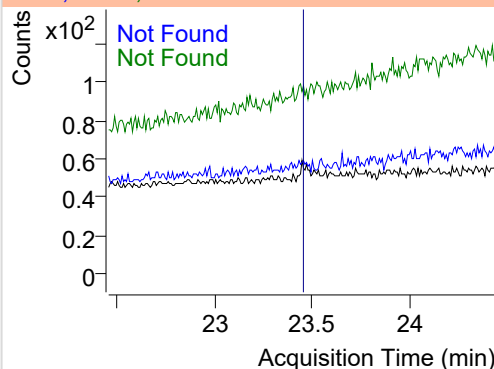
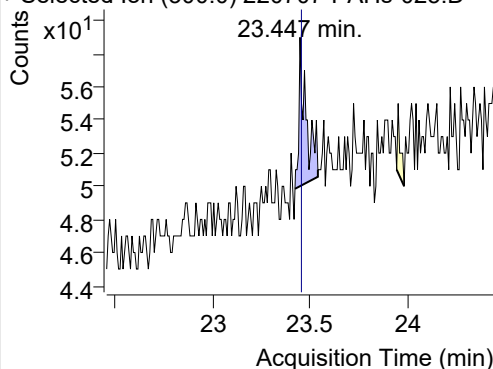


+ SIM (21.150-21.262 min, 14 scans) (**) 2207

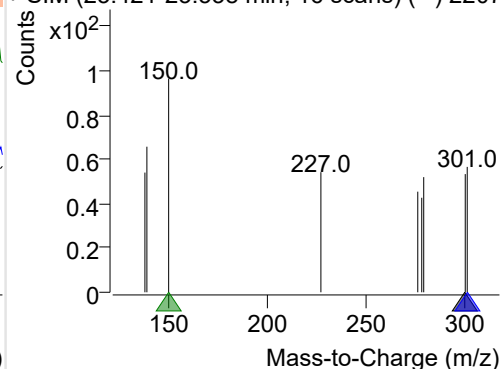
**Coronene**

+ Selected Ion (300.0) 220707-PAHs-025.D

300.0, 301.0, 150.0



+ SIM (23.421-23.538 min, 16 scans) (**) 2207



Quantitative Analysis Sample Based Report

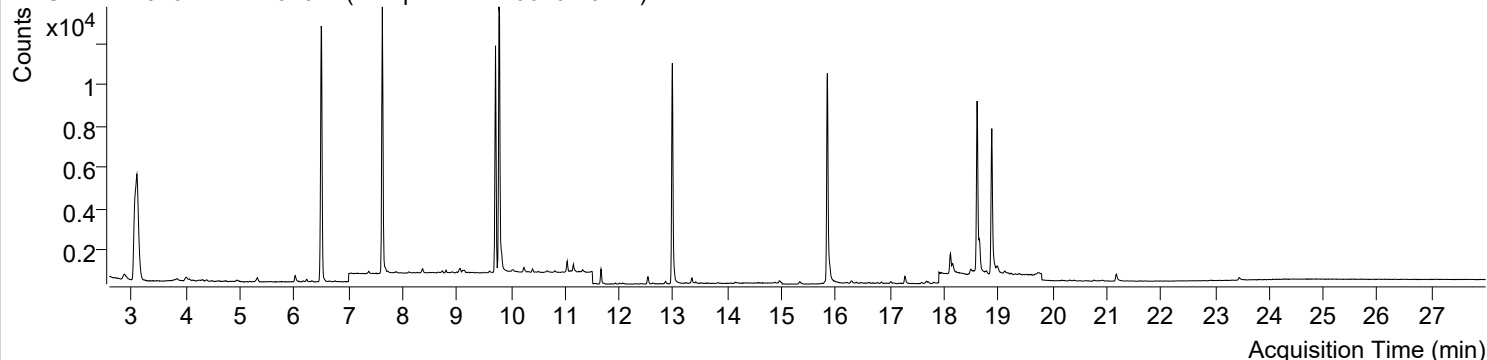


Trusted Answers

| | | | |
|---------------------------|--|-----------------------|------------------------|
| Batch Data Path File Name | D:\MassHunter\GCMS\1\data\PAHs\220707-PAHs-Sample\QuantResults\220707-PAHs-Quant.batch.bin | | |
| Analysis Time Stamp | 2022-07-09 오전 11:12:52 | Analyst Name | DESKTOP-86B7UPG\5975MS |
| Report Generation Time | 2022-07-09 오전 11:13:20 | Report Generator Name | DESKTOP-86B7UPG\5975MS |
| Calibration Last Update | 2022-07-09 오전 11:04:15 | Batch State | Processed |
| Analyze Quant Version | 10.2 | Report Quant Version | 10.2 |
| Acq. Date-Time | 2022-07-08 오전 2:17:10 | Data File | 220707-PAHs-026.D |
| Type | Sample | Name | Sample-PM-220616-10DIL |
| Dil. | 1 | Acq. Method File | PAHs 19mix-Method |

Sample Chromatogram

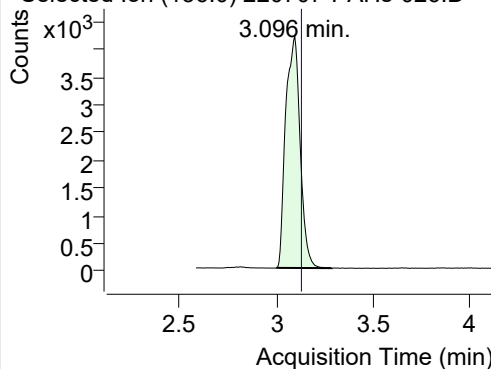
+ TIC SIM 220707-PAHs-026.D (Sample-PM-220616-10DIL)



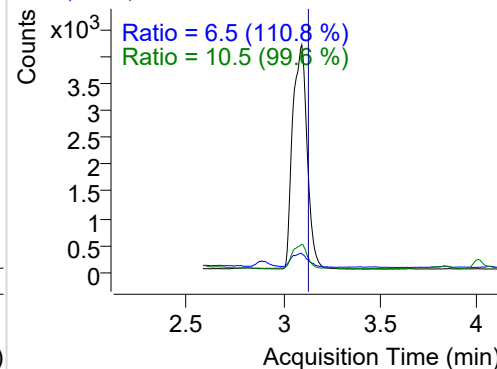
| Name | RT | Transition | Resp. | Height | Final Conc. Units | Ratio |
|-------------------------|--------|------------|-------|----------|-------------------|-------|
| IS-D8-Naphthalene | 3.096 | 136.0 | 21471 | 4161.92 | ND ng/ml | 10.5 |
| Naphthalene | 3.123 | 128.0 | 1449 | 294.60 | ND ng/ml | 11.5 |
| Acenaphthylene | 6.167 | 152.0 | 79 | 33.68 | ND ng/ml | 14.2 |
| IS-D10-Acenaphthene | 6.499 | 164.0 | 11482 | 5915.93 | ND ng/ml | 95.2 |
| Acenaphthene | 6.564 | 154.0 | 27 | 14.66 | ND ng/ml | 128.3 |
| LSS-D10-Fluorene | 7.627 | 176.0 | 9940 | 5874.57 | ND ng/ml | 92.7 |
| Fluorene | 7.680 | 166.0 | 104 | 56.74 | ND ng/ml | 105.5 |
| IS-D10-Phenanthrene | 9.790 | 188.0 | 19029 | 10304.46 | ND ng/ml | 14.8 |
| Phenanthrene | 9.832 | 178.0 | 697 | 372.44 | ND ng/ml | 18.1 |
| Anthracene | 9.832 | 178.0 | 697 | 372.44 | ND ng/ml | 18.1 |
| Fluoranthene | 12.532 | 202.0 | 490 | 274.28 | ND ng/ml | 17.3 |
| LSS-D10-Pyrene | 12.982 | 212.0 | 13653 | 7942.05 | ND ng/ml | 17.5 |
| Pyrene | 13.014 | 202.0 | 526 | 288.49 | ND ng/ml | 26.7 |
| Benz(a)anthracene | 15.795 | 228.0 | 145 | 79.63 | ND ng/ml | 52.0 |
| IS-D12-Chrysene | 15.844 | 240.0 | 14828 | 7724.69 | ND ng/ml | 18.5 |
| Chrysene | 15.887 | 228.0 | 576 | 259.81 | ND ng/ml | 33.3 |
| Benzo(b)fluoranthene | 18.117 | 252.0 | 1090 | 578.80 | ND ng/ml | 38.6 |
| Benzo(k)fluoranthene | 18.160 | 252.0 | 883 | 294.80 | ND ng/ml | |
| SS-D12-Benzo(e)pyrene | 18.608 | 264.0 | 11148 | 5638.07 | ND ng/ml | 25.1 |
| Benzo(e)pyrene | 18.651 | 252.0 | 1429 | 677.80 | ND ng/ml | 19.7 |
| Benzo(a)pyrene | 18.779 | 252.0 | 103 | 26.80 | ND ng/ml | |
| IS-D12-Perylene | 18.879 | 264.0 | 9843 | 4828.64 | ND ng/ml | 23.4 |
| Perylene | 18.865 | 252.0 | 138 | 29.80 | ND ng/ml | |
| Indeno(1,2,3-c,d)pyrene | 20.767 | 276.0 | 124 | 36.21 | ND ng/ml | |
| Dibenz(a,h)anthracene | 20.835 | 278.0 | 44 | 11.46 | ND ng/ml | 74.2 |
| Benzo(g,h,i)perylene | 21.179 | 276.0 | 736 | 277.45 | ND ng/ml | 21.5 |
| Coronene | 23.447 | 300.0 | 238 | 79.46 | ND ng/ml | 32.9 |

IS-D8-Naphthalene

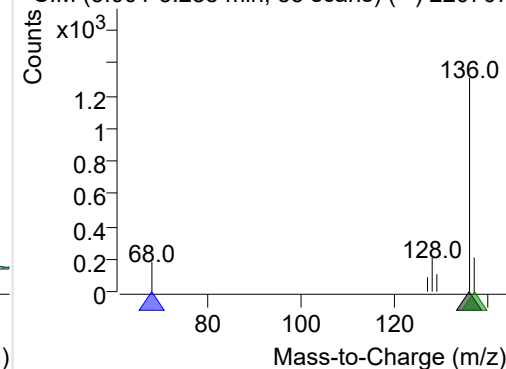
+ Selected Ion (136.0) 220707-PAHs-026.D



136.0, 68.0, 137.0

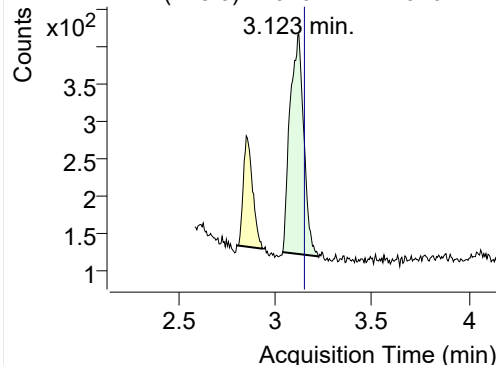


+ SIM (3.001-3.285 min, 53 scans) (**) 220707

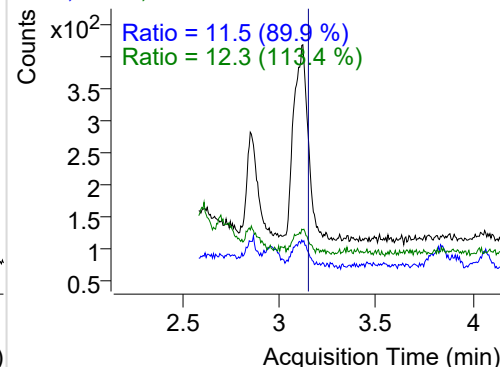


Naphthalene

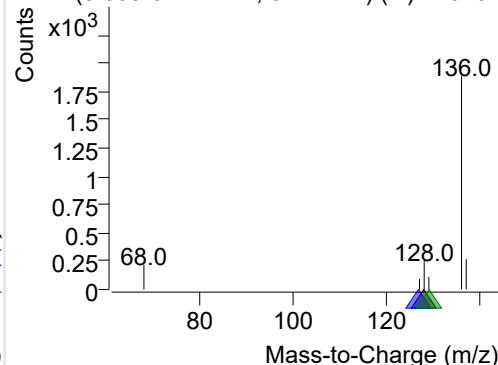
+ Selected Ion (128.0) 220707-PAHs-026.D



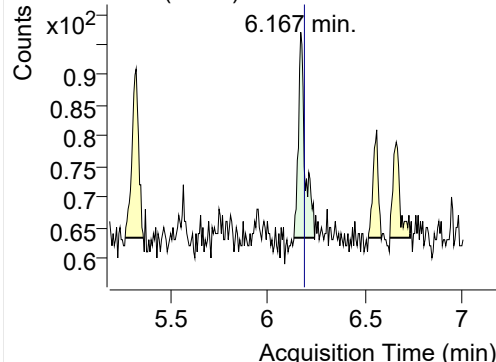
128.0, 127.0, 129.0



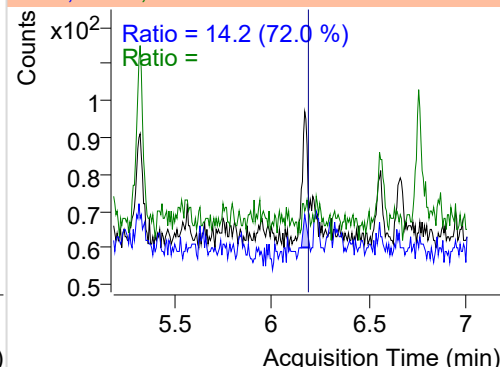
+ SIM (3.039-3.224 min, 34 scans) (**) 220707

**Acenaphthylene**

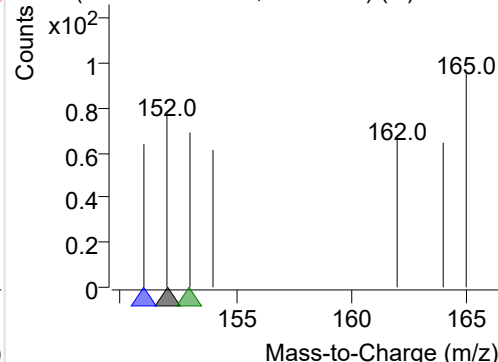
+ Selected Ion (152.0) 220707-PAHs-026.D



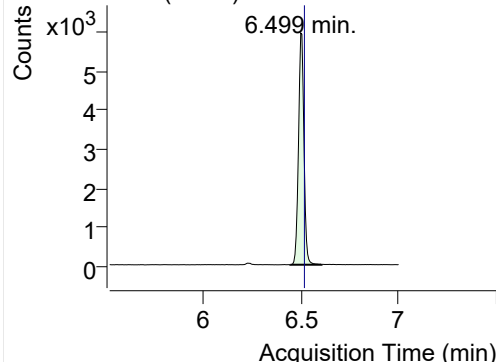
152.0, 151.0, 153.0



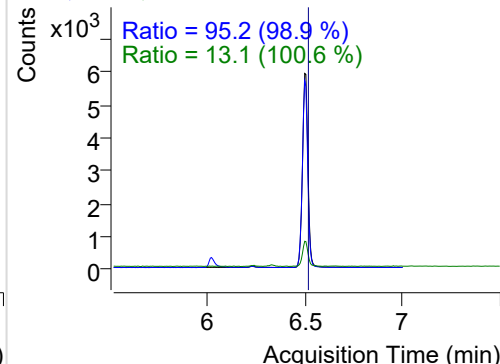
+ SIM (6.132-6.238 min, 17 scans) (**) 220707

**IS-D10-Acenaphthene**

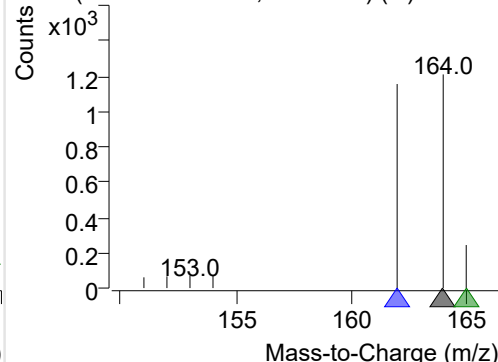
+ Selected Ion (164.0) 220707-PAHs-026.D



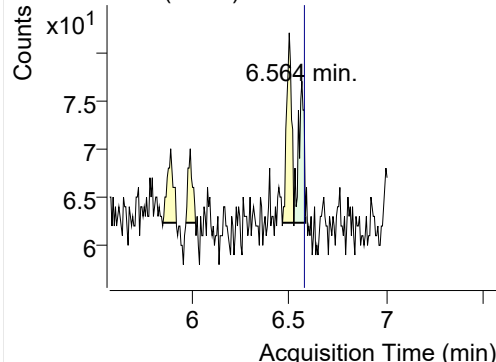
164.0, 162.0, 165.0



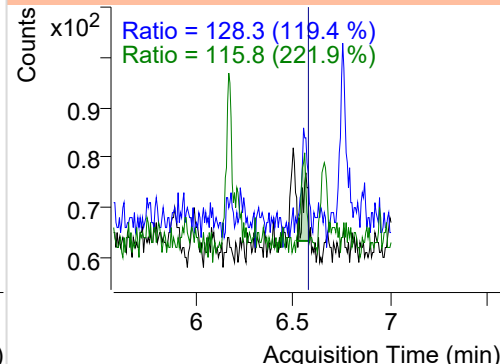
+ SIM (6.445-6.605 min, 28 scans) (**) 220707

**Acenaphthene**

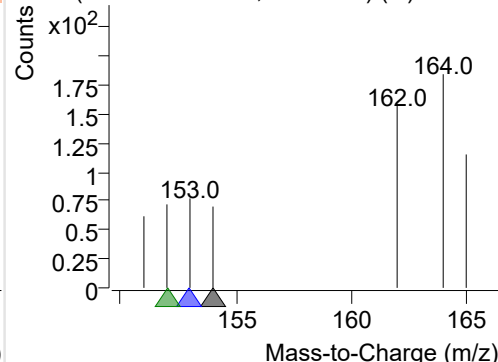
+ Selected Ion (154.0) 220707-PAHs-026.D



154.0, 153.0, 152.0

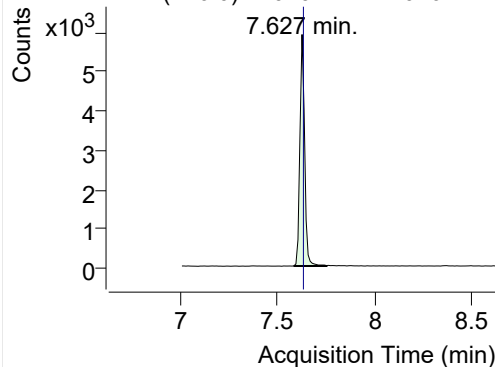


+ SIM (6.523-6.581 min, 10 scans) (**) 220707

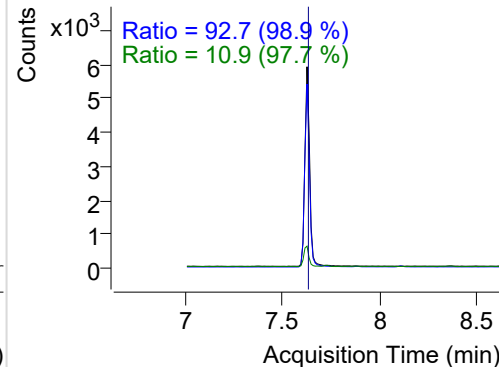


LSS-D10-Fluorene

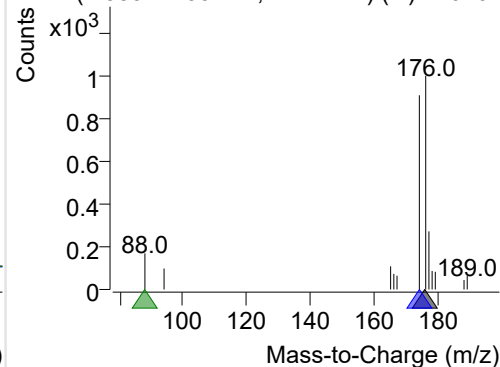
+ Selected Ion (176.0) 220707-PAHs-026.D



176.0, 174.0, 88.0

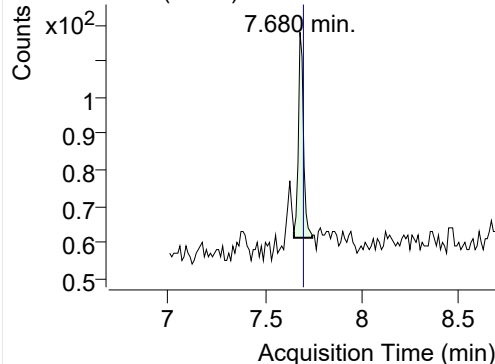


+ SIM (7.583-7.753 min, 17 scans) (**) 220707

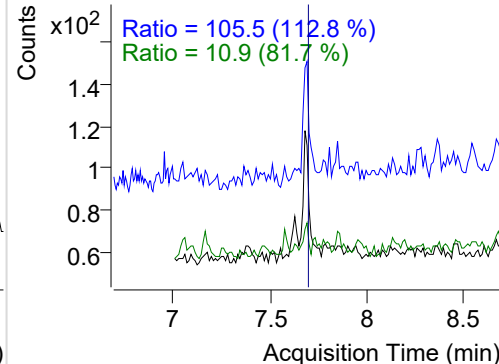


Fluorene

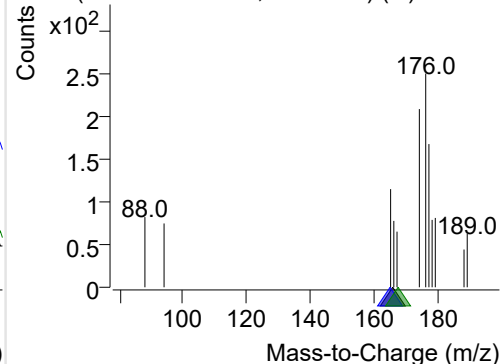
+ Selected Ion (166.0) 220707-PAHs-026.D



166.0, 165.0, 167.0

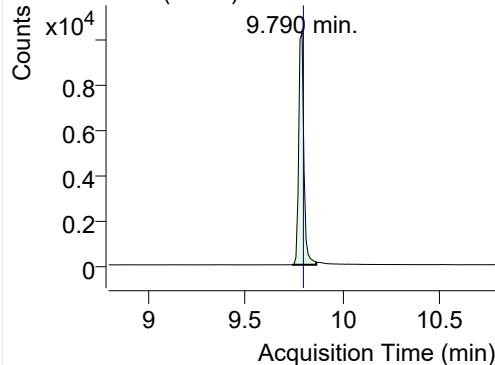


+ SIM (7.648-7.743 min, 10 scans) (**) 220707

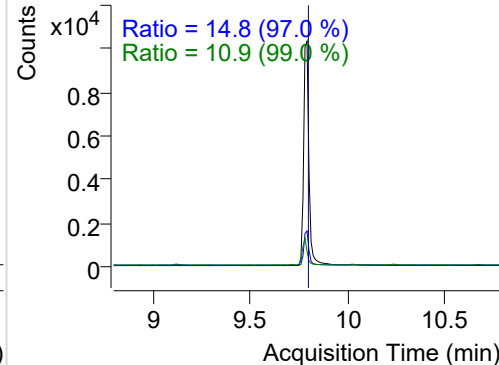


IS-D10-Phenanthrene

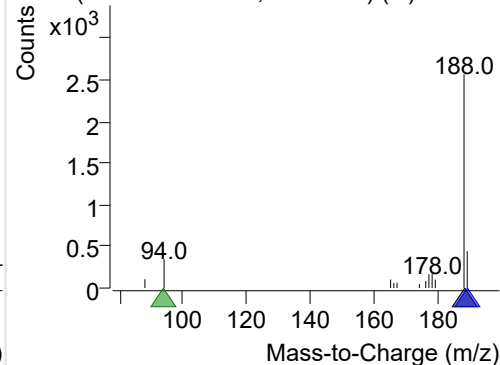
+ Selected Ion (188.0) 220707-PAHs-026.D



188.0, 189.0, 94.0

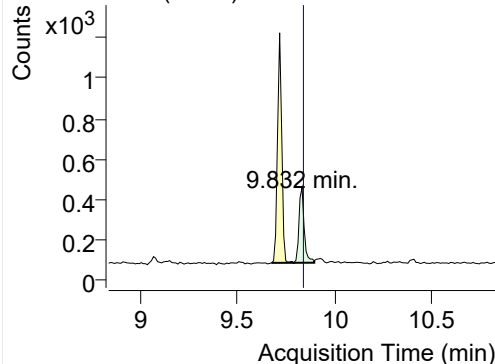


+ SIM (9.739-9.864 min, 12 scans) (**) 220707

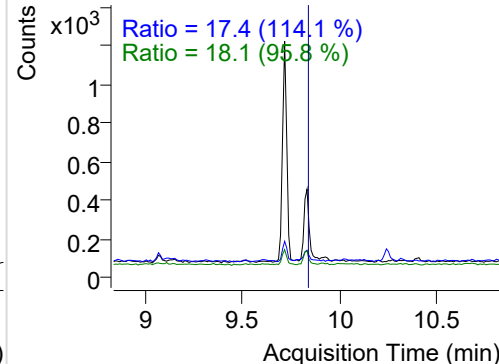


Phenanthrene

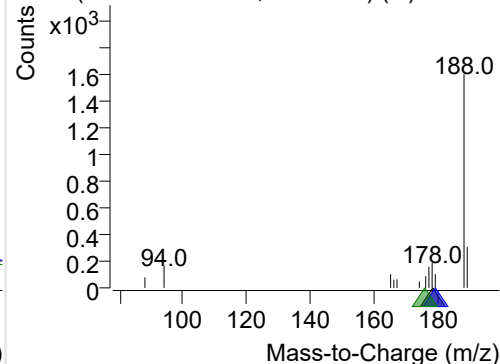
+ Selected Ion (178.0) 220707-PAHs-026.D



178.0, 179.0, 176.0

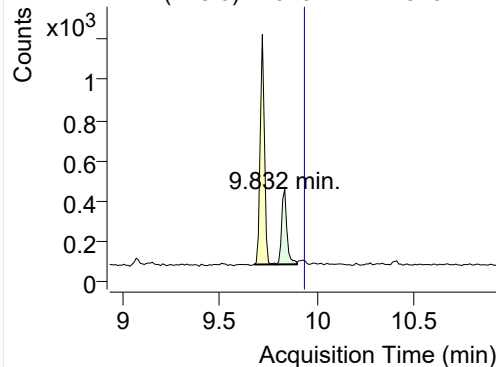


+ SIM (9.790-9.895 min, 11 scans) (**) 220707

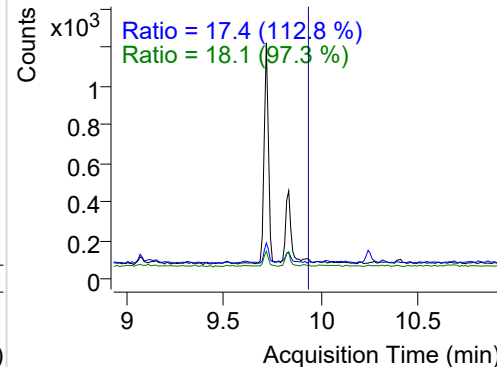


Anthracene

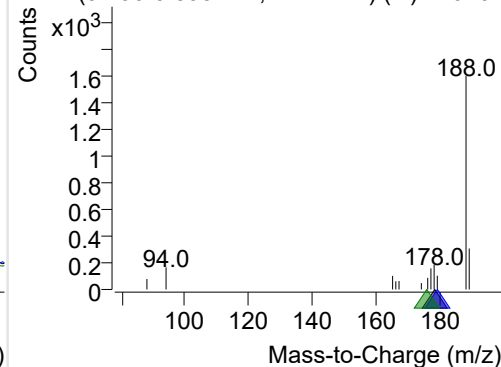
+ Selected Ion (178.0) 220707-PAHs-026.D



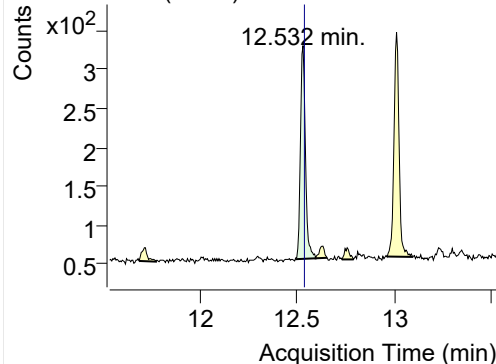
178.0, 179.0, 176.0



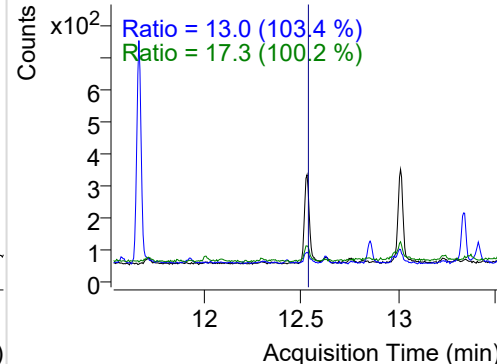
+ SIM (9.790-9.895 min, 11 scans) (**) 220707

**Fluoranthene**

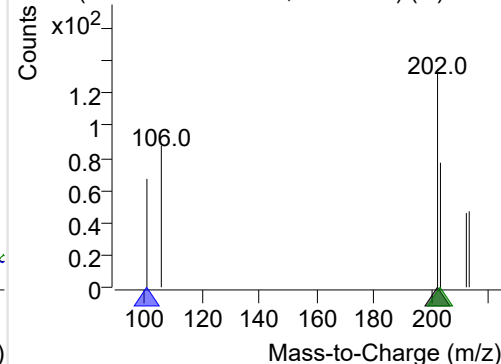
+ Selected Ion (202.0) 220707-PAHs-026.D



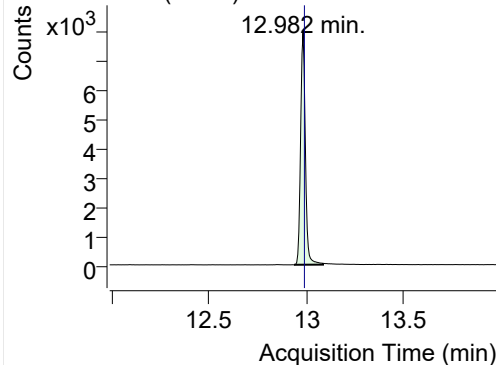
202.0, 101.0, 203.0



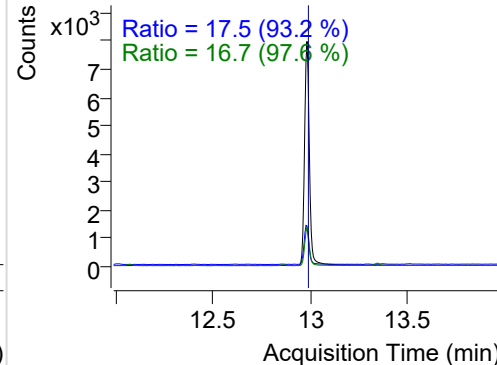
+ SIM (12.491-12.597 min, 20 scans) (**) 2207

**LSS-D10-Pyrene**

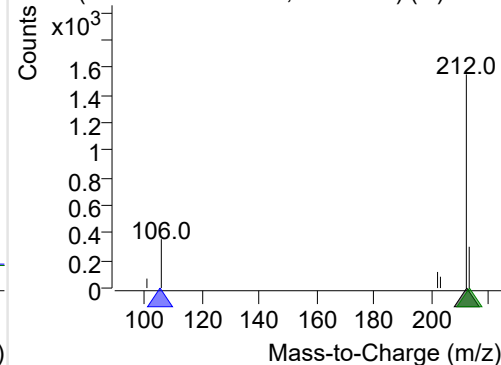
+ Selected Ion (212.0) 220707-PAHs-026.D



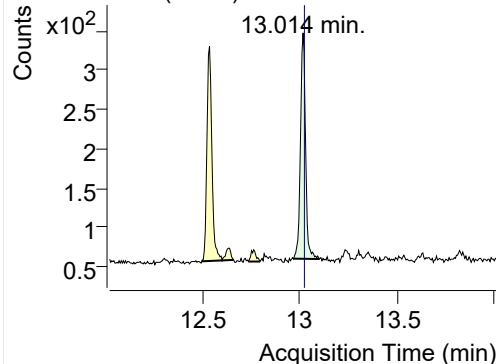
212.0, 106.0, 213.0



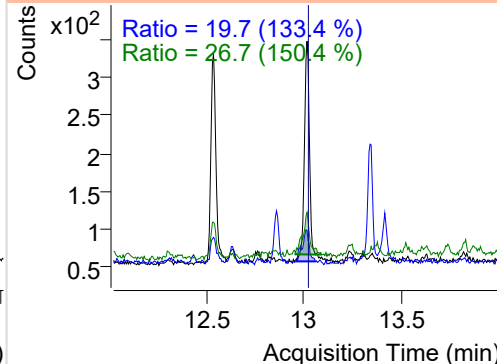
+ SIM (12.935-13.084 min, 28 scans) (**) 2207

**Pyrene**

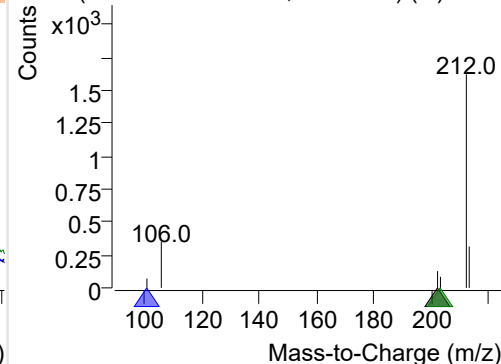
+ Selected Ion (202.0) 220707-PAHs-026.D



202.0, 101.0, 203.0



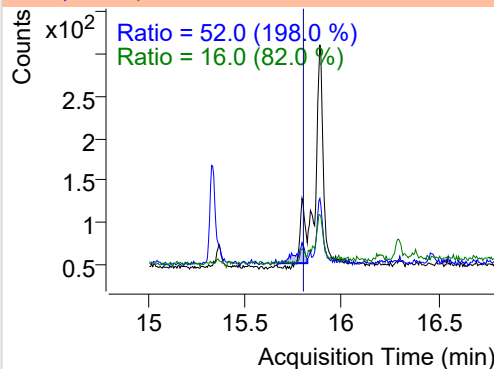
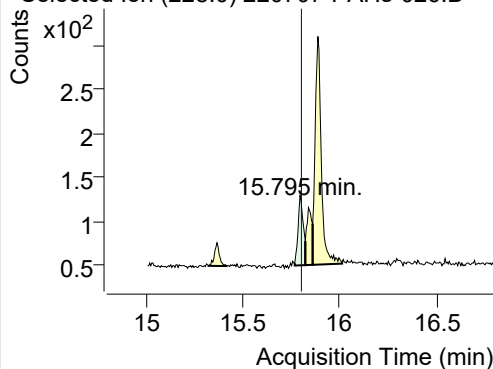
+ SIM (12.966-13.095 min, 24 scans) (**) 2207



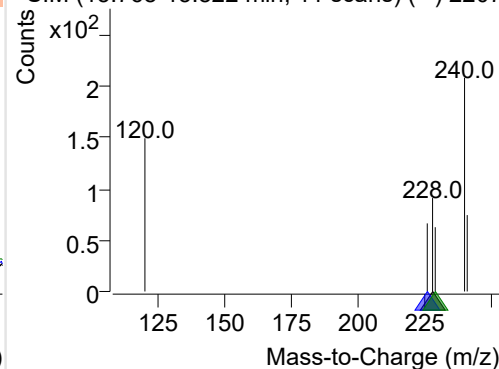
Benz(a)anthracene

+ Selected Ion (228.0) 220707-PAHs-026.D

228.0, 226.0, 229.0

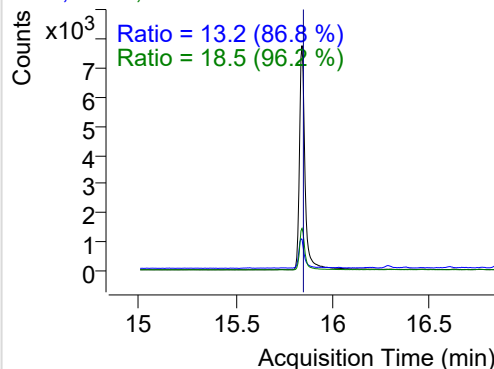
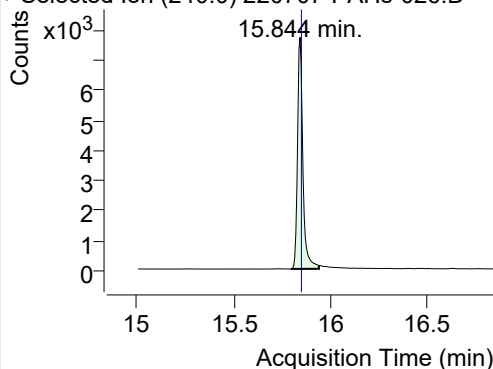


+ SIM (15.768-15.822 min, 11 scans) (**) 2207

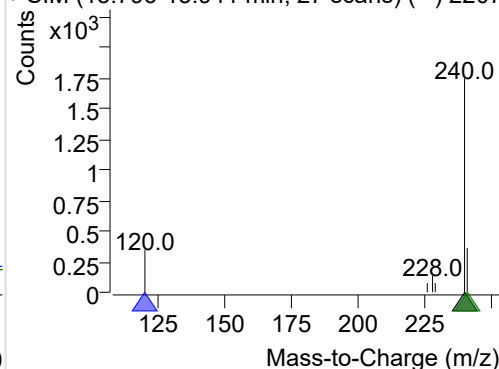
**IS-D12-Chrysene**

+ Selected Ion (240.0) 220707-PAHs-026.D

240.0, 120.0, 241.0

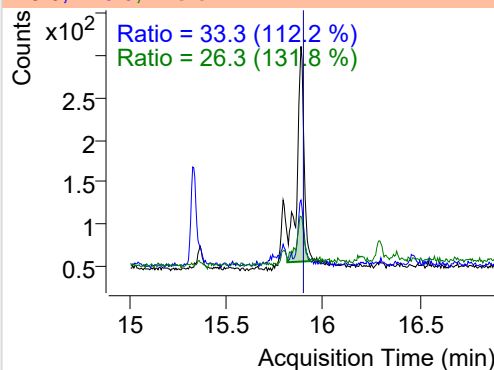
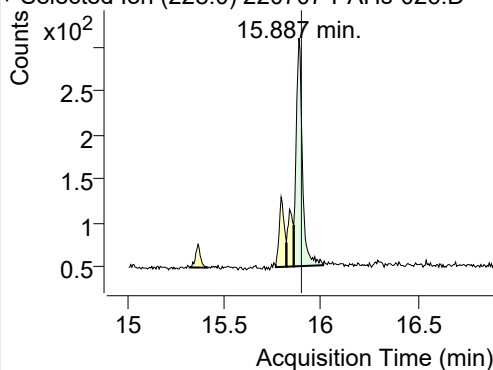


+ SIM (15.796-15.941 min, 27 scans) (**) 2207

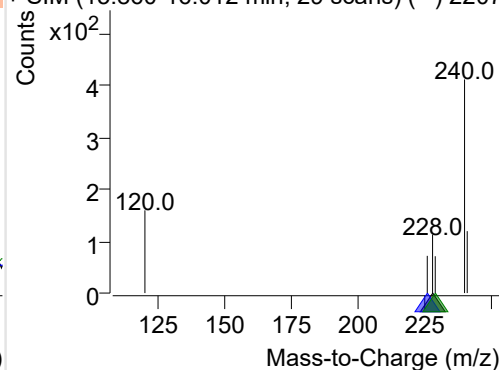
**Chrysene**

+ Selected Ion (228.0) 220707-PAHs-026.D

228.0, 226.0, 229.0

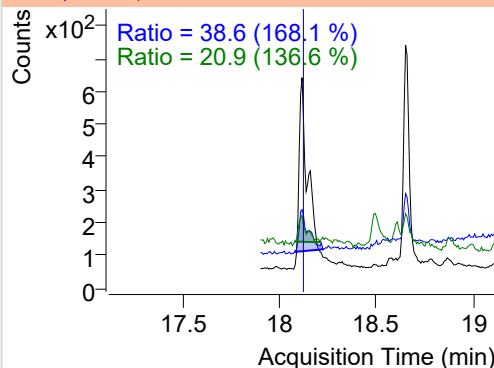
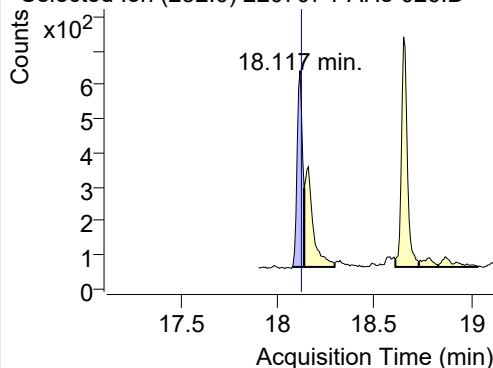


+ SIM (15.860-16.012 min, 29 scans) (**) 2207

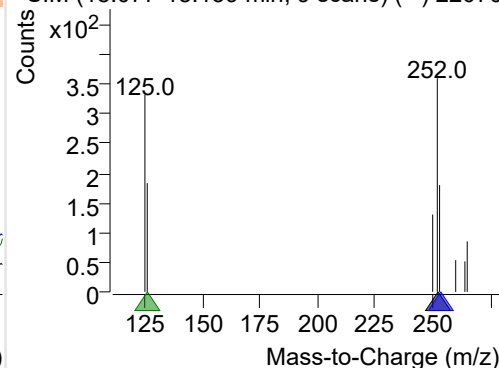
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 220707-PAHs-026.D

252.0, 253.0, 126.0



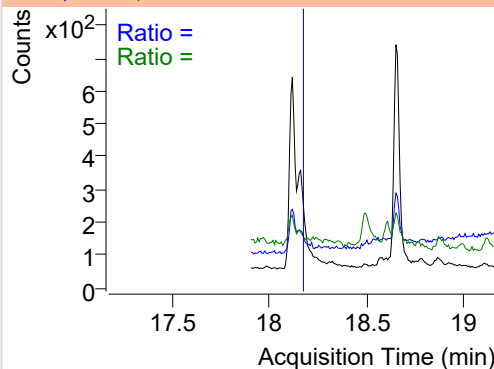
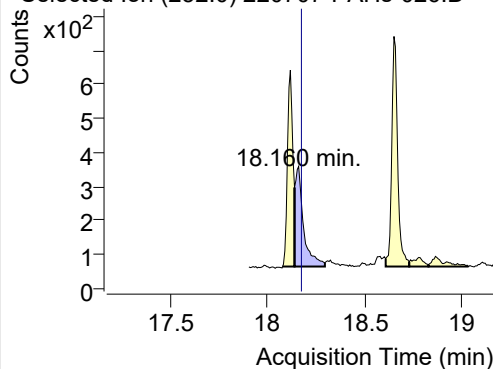
+ SIM (18.077-18.139 min, 9 scans) (**) 22070



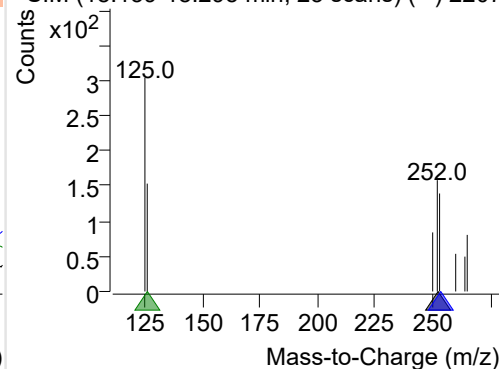
Benzo(k)fluoranthene

+ Selected Ion (252.0) 220707-PAHs-026.D

252.0, 253.0, 126.0

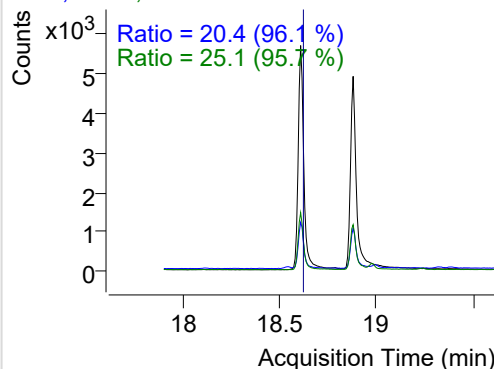
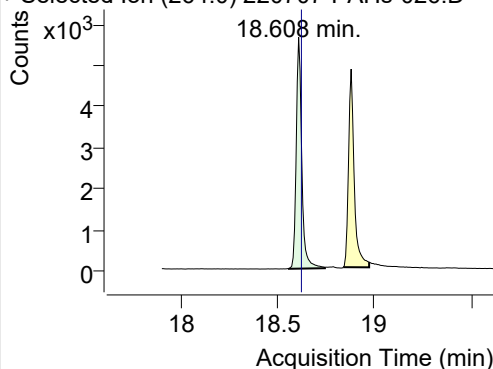


+ SIM (18.139-18.295 min, 23 scans) (**) 2207

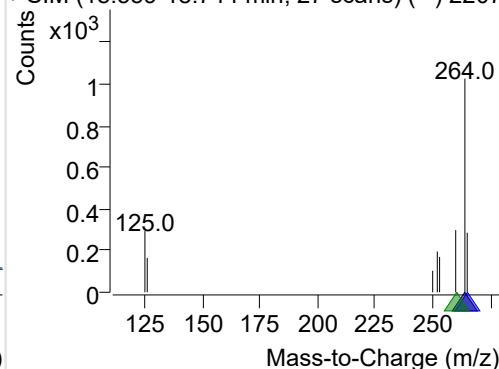
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 220707-PAHs-026.D

264.0, 265.0, 260.0

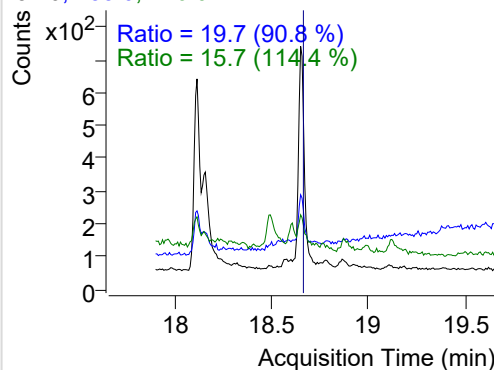
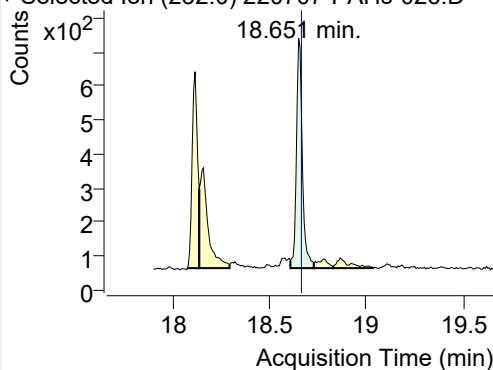


+ SIM (18.559-18.744 min, 27 scans) (**) 2207

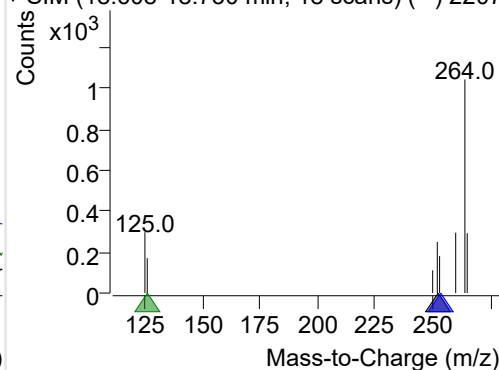
**Benzo(e)pyrene**

+ Selected Ion (252.0) 220707-PAHs-026.D

252.0, 253.0, 126.0

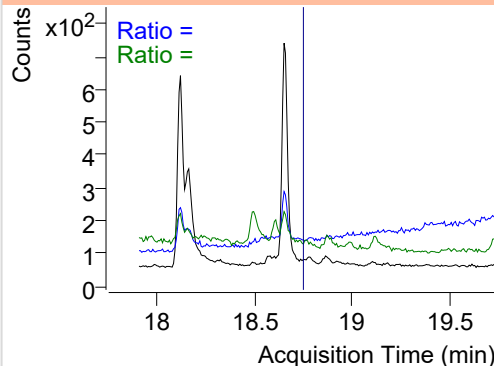
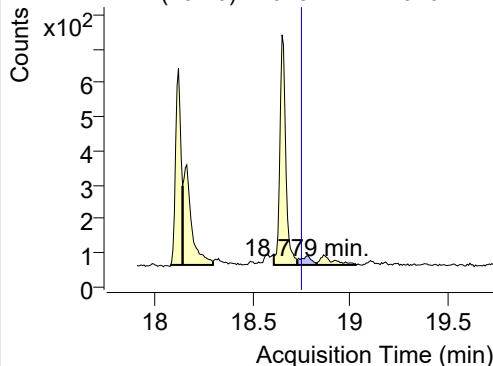


+ SIM (18.608-18.730 min, 18 scans) (**) 2207

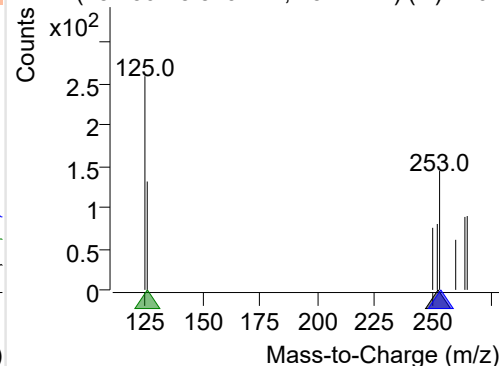
**Benzo(a)pyrene**

+ Selected Ion (252.0) 220707-PAHs-026.D

252.0, 253.0, 126.0

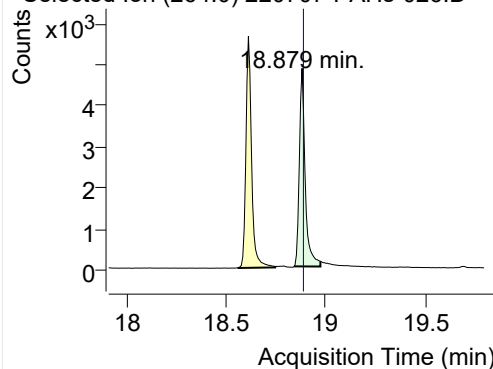


+ SIM (18.730-18.829 min, 15 scans) (**) 2207

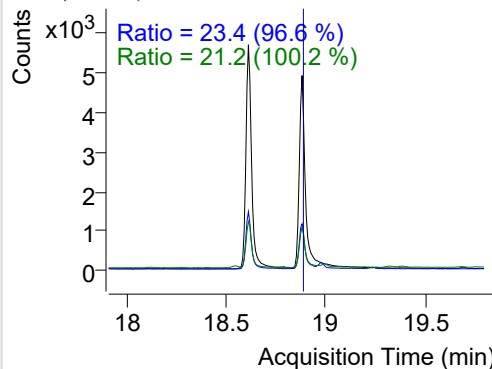


IS-D12-Perylene

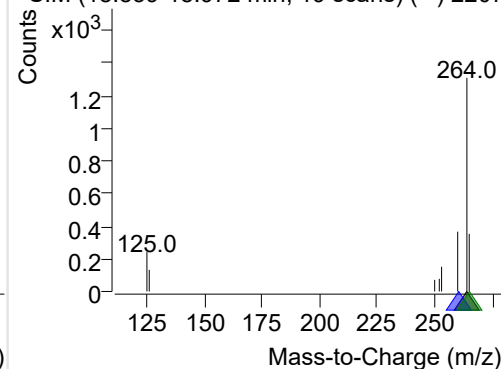
+ Selected Ion (264.0) 220707-PAHs-026.D



264.0, 260.0, 265.0

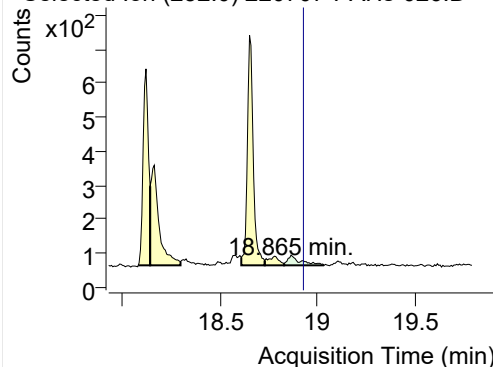


+ SIM (18.839-18.972 min, 19 scans) (**) 2207

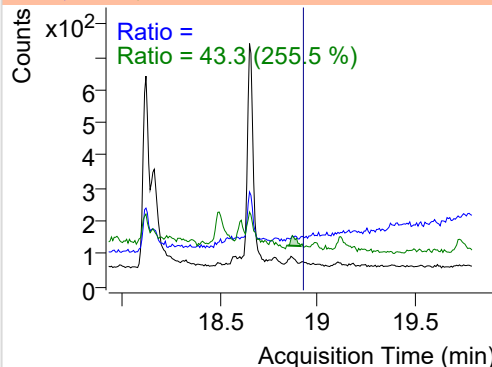


Perylene

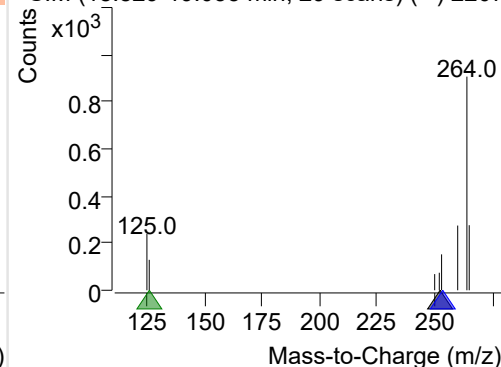
+ Selected Ion (252.0) 220707-PAHs-026.D



252.0, 253.0, 126.0

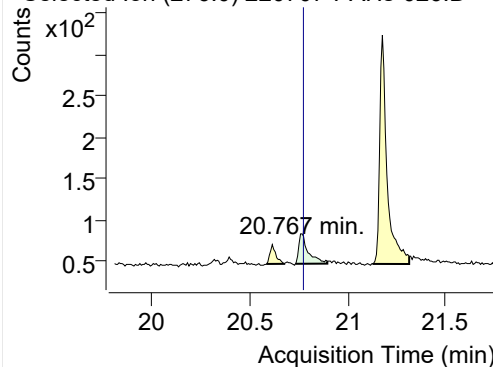


+ SIM (18.829-19.035 min, 29 scans) (**) 2207

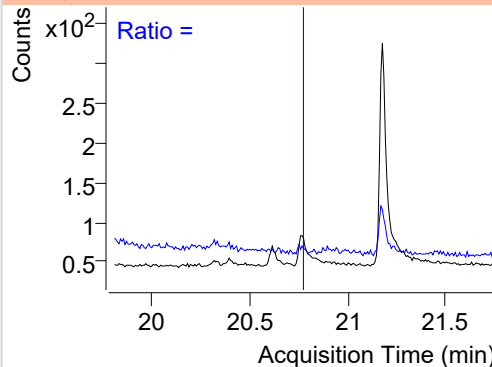


Indeno(1,2,3-c,d)pyrene

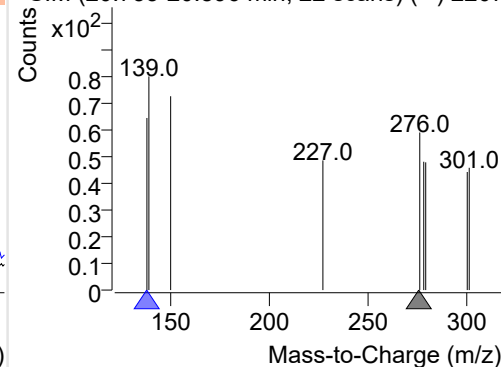
+ Selected Ion (276.0) 220707-PAHs-026.D



276.0, 138.0

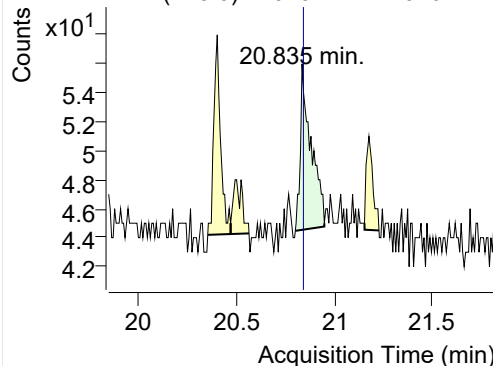


+ SIM (20.733-20.896 min, 22 scans) (**) 2207

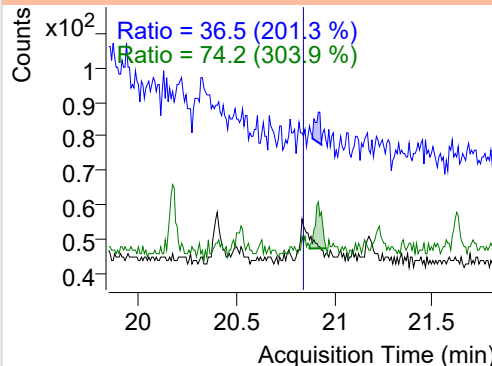


Dibenz(a,h)anthracene

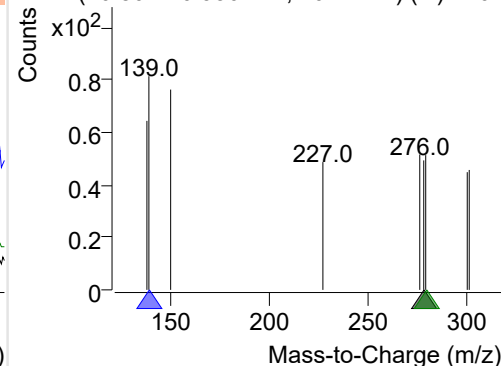
+ Selected Ion (278.0) 220707-PAHs-026.D



278.0, 139.0, 279.0

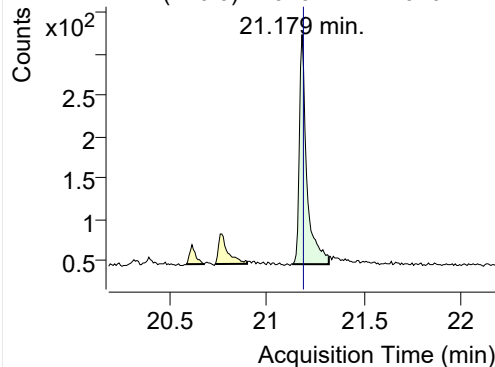


+ SIM (20.801-20.950 min, 20 scans) (**) 2207

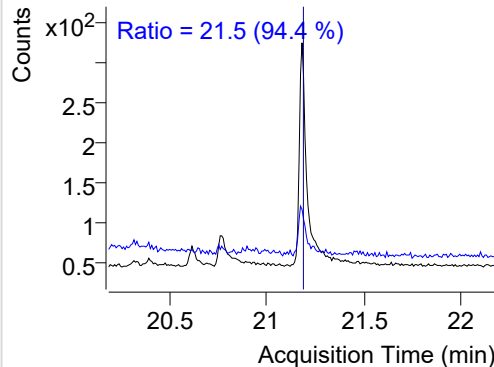


Benzo(g,h,i)perylene

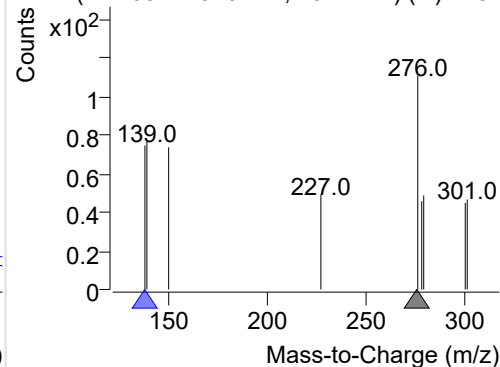
+ Selected Ion (276.0) 220707-PAHs-026.D



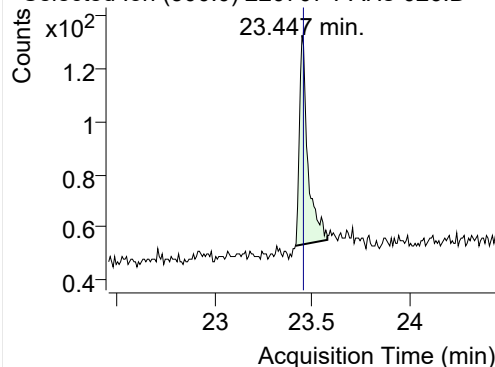
276.0, 138.0



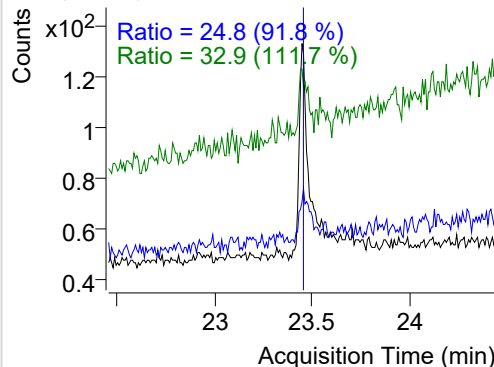
+ SIM (21.133-21.316 min, 25 scans) (**) 2207

**Coronene**

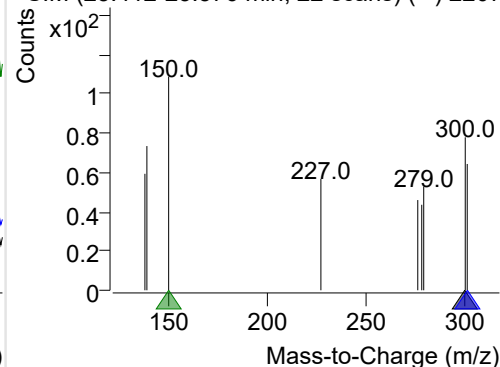
+ Selected Ion (300.0) 220707-PAHs-026.D



300.0, 301.0, 150.0



+ SIM (23.412-23.576 min, 22 scans) (**) 2207



Quantitative Analysis Sample Based Report

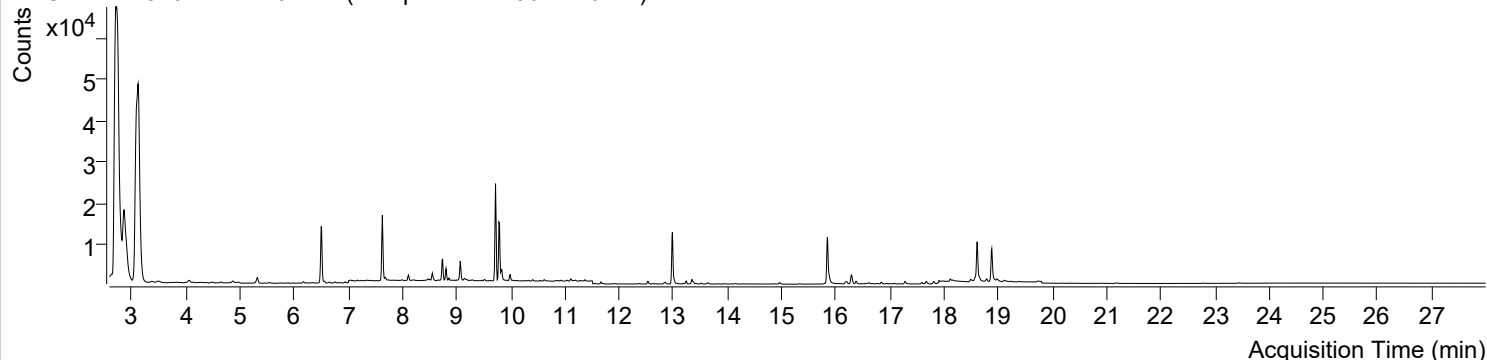


Trusted Answers

| | | | |
|---------------------------|--|-----------------------|------------------------|
| Batch Data Path File Name | D:\MassHunter\GCMS\1\data\PAHs\220707-PAHs-Sample\QuantResults\220707-PAHs-Quant.batch.bin | | |
| Analysis Time Stamp | 2022-07-09 오전 11:12:52 | Analyst Name | DESKTOP-86B7UPG\5975MS |
| Report Generation Time | 2022-07-09 오전 11:13:20 | Report Generator Name | DESKTOP-86B7UPG\5975MS |
| Calibration Last Update | 2022-07-09 오전 11:04:15 | Batch State | Processed |
| Analyze Quant Version | 10.2 | Report Quant Version | 10.2 |
| Acq. Date-Time | 2022-07-08 오전 2:48:10 | Data File | 220707-PAHs-027.D |
| Type | Sample | Name | Sample-PM-220622-10DIL |
| Dil. | 1 | Acq. Method File | PAHs 19mix-Method |

Sample Chromatogram

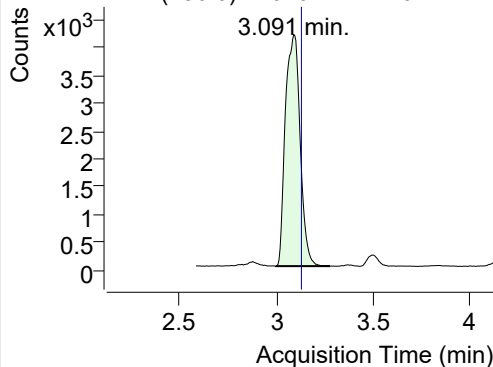
+ TIC SIM 220707-PAHs-027.D (Sample-PM-220622-10DIL)



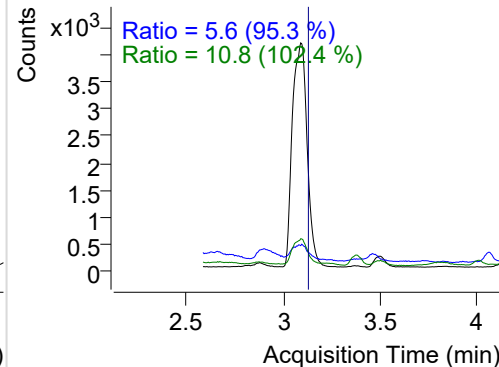
| Name | RT | Transition | Resp. | Height | Final Conc. Units | Ratio |
|-------------------------|--------|------------|--------|----------|-------------------|-------|
| IS-D8-Naphthalene | 3.091 | 136.0 | 21959 | 4162.69 | ND ng/ml | 10.8 |
| Naphthalene | 3.118 | 128.0 | 185750 | 36066.29 | ND ng/ml | 12.1 |
| Acenaphthylene | 6.167 | 152.0 | 525 | 250.99 | ND ng/ml | 18.9 |
| IS-D10-Acenaphthene | 6.499 | 164.0 | 12334 | 6494.84 | ND ng/ml | 96.2 |
| Acenaphthene | 6.564 | 154.0 | 223 | 105.39 | ND ng/ml | 97.8 |
| LSS-D10-Fluorene | 7.627 | 176.0 | 11853 | 7188.16 | ND ng/ml | 93.3 |
| Fluorene | 7.680 | 166.0 | 553 | 286.41 | ND ng/ml | 110.8 |
| IS-D10-Phenanthrene | 9.790 | 188.0 | 20870 | 11247.89 | ND ng/ml | 15.0 |
| Phenanthrene | 9.832 | 178.0 | 2722 | 1551.80 | ND ng/ml | 20.4 |
| Anthracene | 9.990 | 178.0 | 721 | 392.80 | ND ng/ml | 28.6 |
| Fluoranthene | 12.532 | 202.0 | 864 | 514.86 | ND ng/ml | 19.1 |
| LSS-D10-Pyrene | 12.982 | 212.0 | 15726 | 9281.30 | ND ng/ml | 17.6 |
| Pyrene | 13.014 | 202.0 | 838 | 523.96 | ND ng/ml | 28.6 |
| Benz(a)anthracene | 15.795 | 228.0 | 156 | 82.38 | ND ng/ml | 26.4 |
| IS-D12-Chrysene | 15.844 | 240.0 | 16579 | 8605.40 | ND ng/ml | 18.4 |
| Chrysene | 15.887 | 228.0 | 794 | 338.47 | ND ng/ml | 26.9 |
| Benzo(b)fluoranthene | 18.117 | 252.0 | 667 | 316.07 | ND ng/ml | 52.0 |
| Benzo(k)fluoranthene | 18.160 | 252.0 | 509 | 177.07 | ND ng/ml | |
| SS-D12-Benzo(e)pyrene | 18.608 | 264.0 | 13270 | 6423.85 | ND ng/ml | 24.7 |
| Benzo(e)pyrene | 18.651 | 252.0 | 660 | 314.07 | ND ng/ml | 19.2 |
| Benzo(a)pyrene | 18.786 | 252.0 | 312 | 127.07 | ND ng/ml | 11.2 |
| IS-D12-Perylene | 18.879 | 264.0 | 12128 | 5384.95 | ND ng/ml | 22.5 |
| Perylene | 18.858 | 252.0 | 263 | 91.07 | ND ng/ml | |
| Indeno(1,2,3-c,d)pytene | 20.759 | 276.0 | 130 | 31.74 | ND ng/ml | 11.7 |
| Dibenz(a,h)anthracene | 20.843 | 278.0 | 54 | 10.00 | ND ng/ml | 49.2 |
| Benzo(g,h,i)perylene | 21.179 | 276.0 | 308 | 105.00 | ND ng/ml | 20.4 |
| Coronene | 23.447 | 300.0 | 315 | 78.69 | ND ng/ml | 21.3 |

IS-D8-Naphthalene

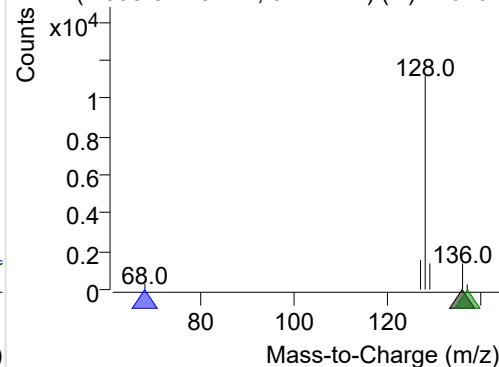
+ Selected Ion (136.0) 220707-PAHs-027.D



136.0, 68.0, 137.0

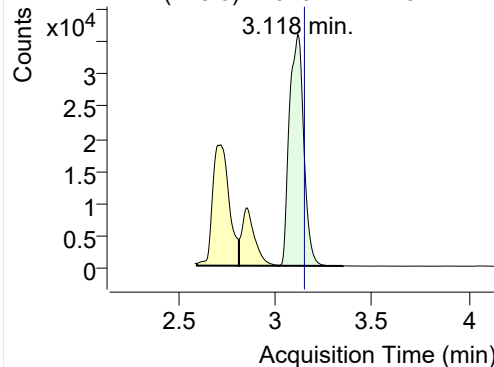


+ SIM (2.998-3.278 min, 52 scans) (**) 220707

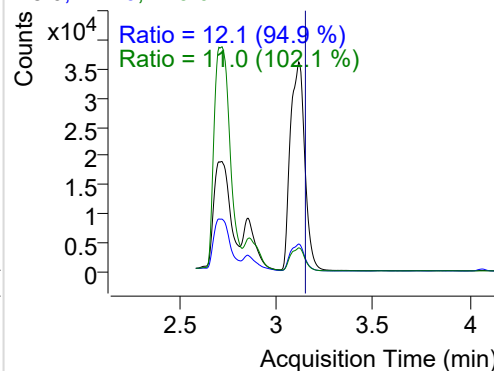


Naphthalene

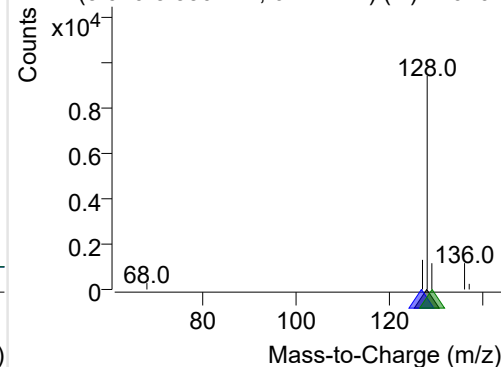
+ Selected Ion (128.0) 220707-PAHs-027.D



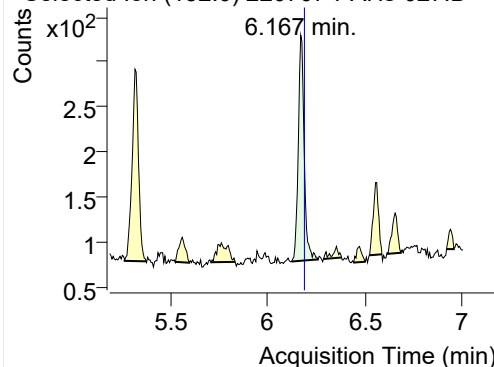
128.0, 127.0, 129.0



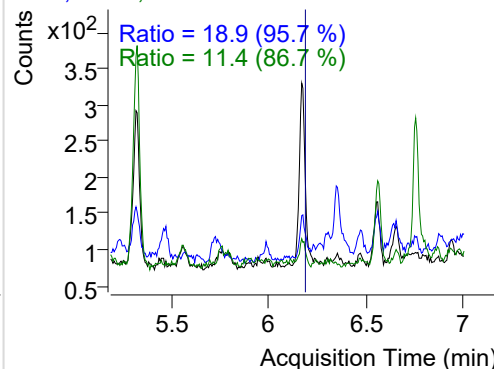
+ SIM (3.020-3.350 min, 62 scans) (**) 220707

**Acenaphthylene**

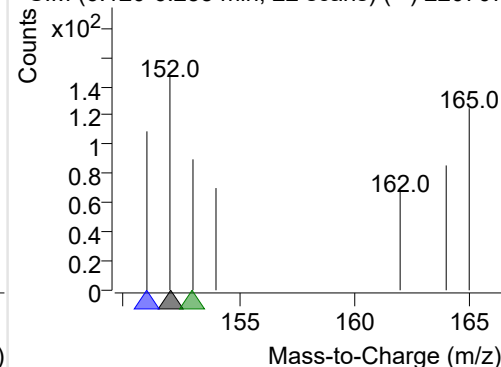
+ Selected Ion (152.0) 220707-PAHs-027.D



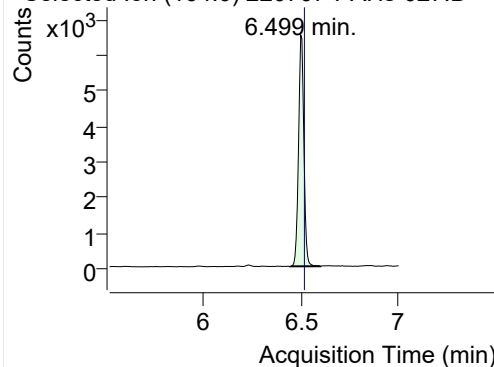
152.0, 151.0, 153.0



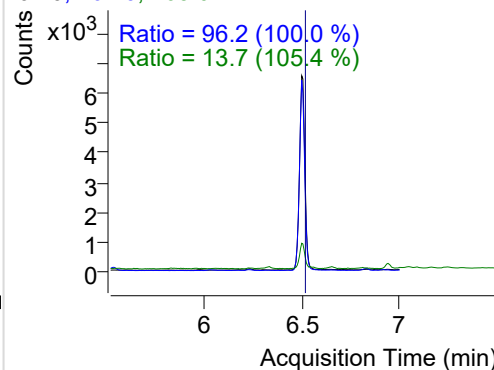
+ SIM (6.120-6.255 min, 22 scans) (**) 220707

**IS-D10-Acenaphthene**

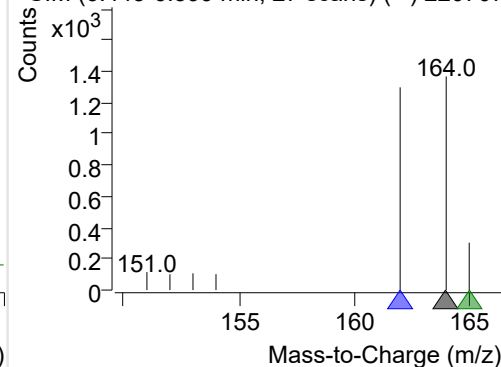
+ Selected Ion (164.0) 220707-PAHs-027.D



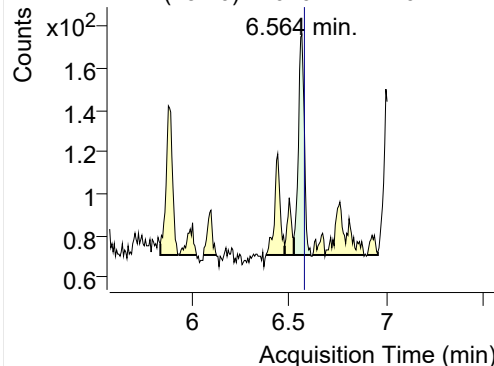
164.0, 162.0, 165.0



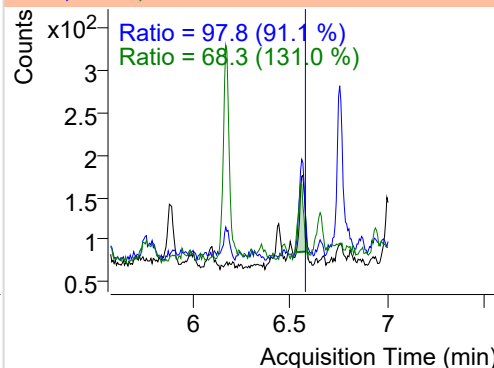
+ SIM (6.445-6.599 min, 27 scans) (**) 220707

**Acenaphthene**

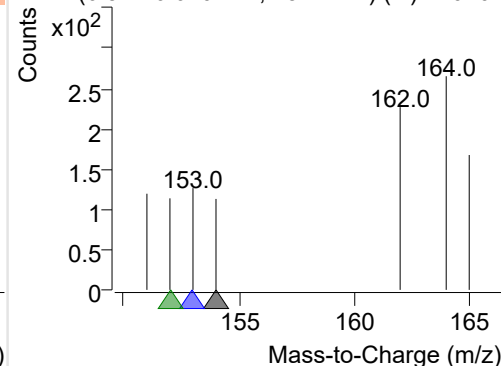
+ Selected Ion (154.0) 220707-PAHs-027.D



154.0, 153.0, 152.0

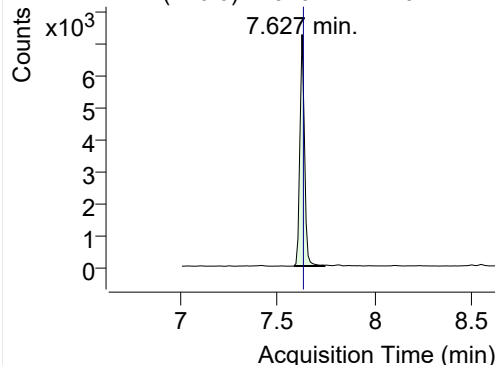


+ SIM (6.522-6.610 min, 15 scans) (**) 220707

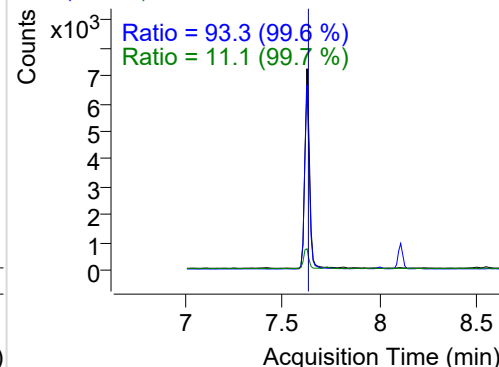


LSS-D10-Fluorene

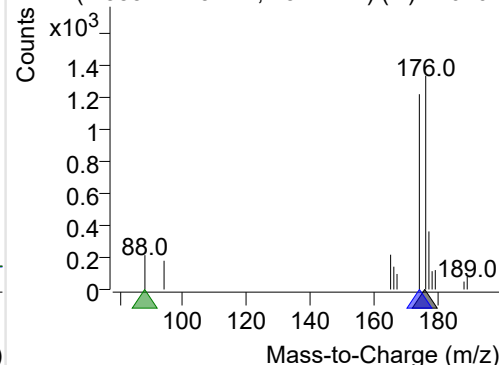
+ Selected Ion (176.0) 220707-PAHs-027.D



176.0, 174.0, 88.0

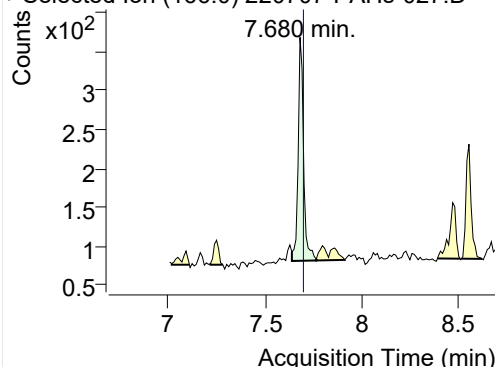


+ SIM (7.585-7.743 min, 15 scans) (**) 220707

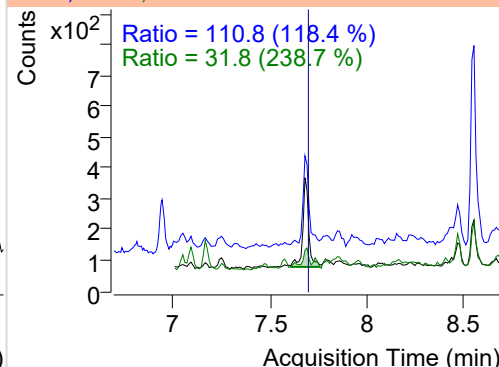


Fluorene

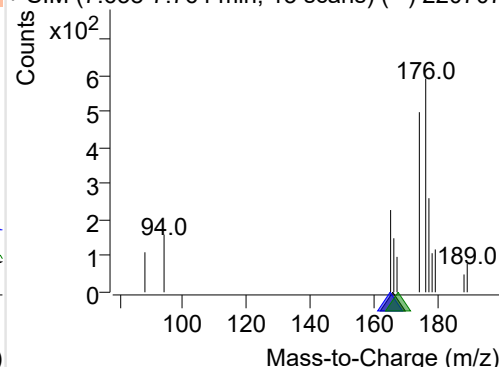
+ Selected Ion (166.0) 220707-PAHs-027.D



166.0, 165.0, 167.0

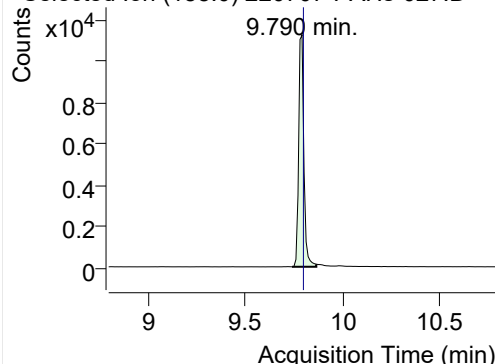


+ SIM (7.638-7.764 min, 13 scans) (**) 220707

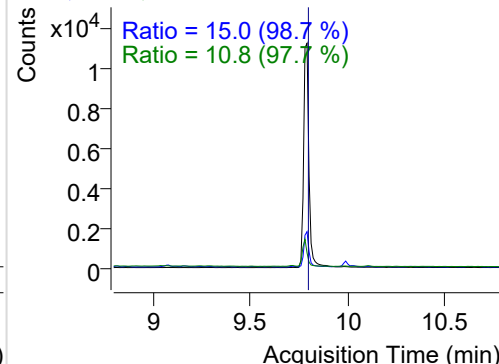


IS-D10-Phenanthrene

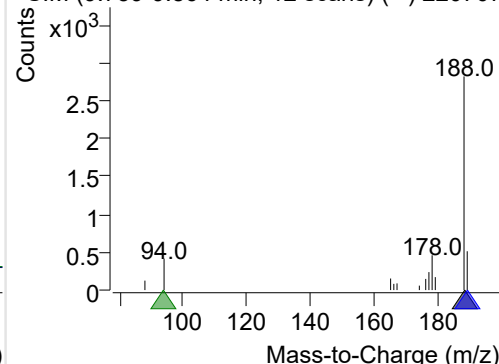
+ Selected Ion (188.0) 220707-PAHs-027.D



188.0, 189.0, 94.0

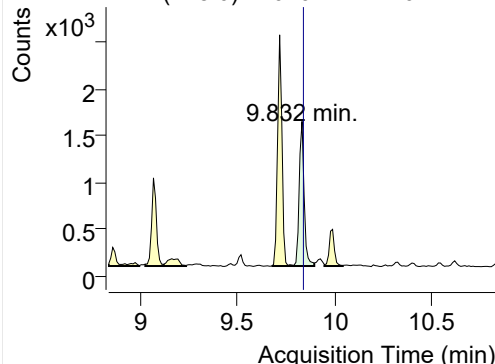


+ SIM (9.739-9.864 min, 12 scans) (**) 220707

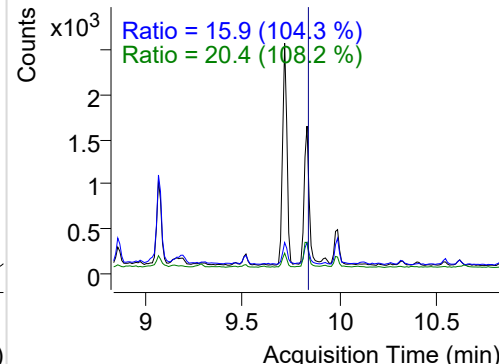


Phenanthrene

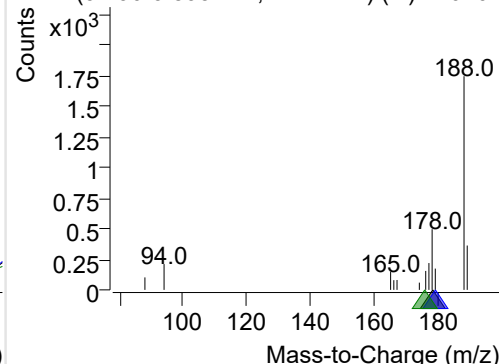
+ Selected Ion (178.0) 220707-PAHs-027.D



178.0, 179.0, 176.0

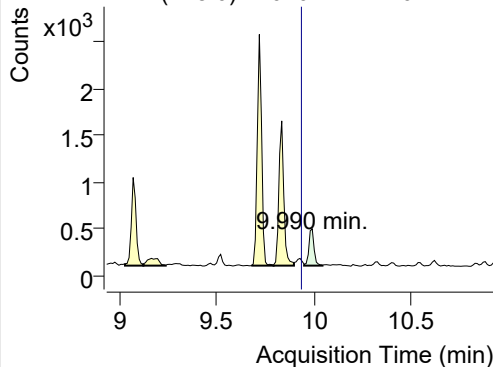


+ SIM (9.790-9.895 min, 11 scans) (**) 220707

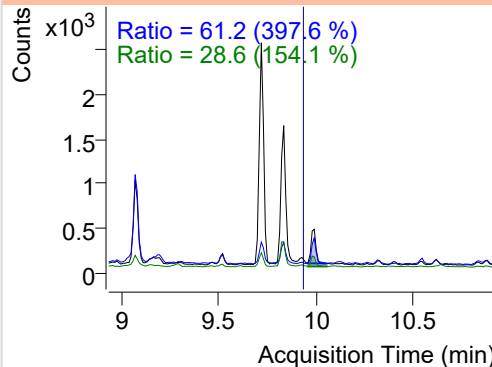


Anthracene

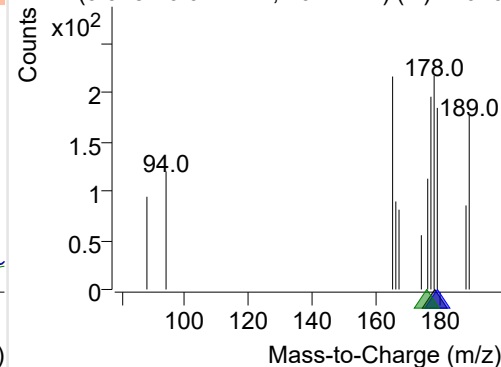
+ Selected Ion (178.0) 220707-PAHs-027.D



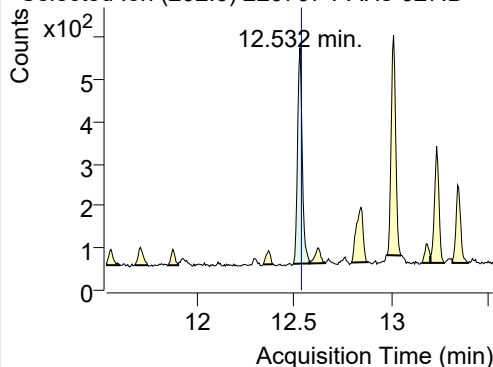
178.0, 179.0, 176.0



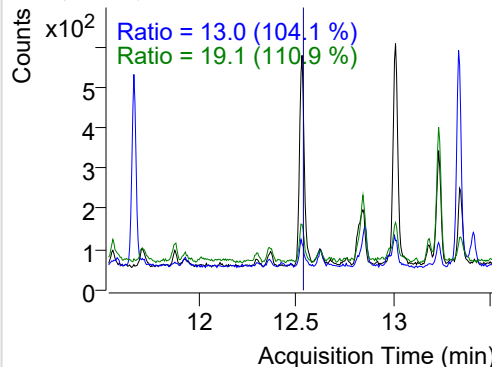
+ SIM (9.948-10.042 min, 10 scans) (**) 22070

**Fluoranthene**

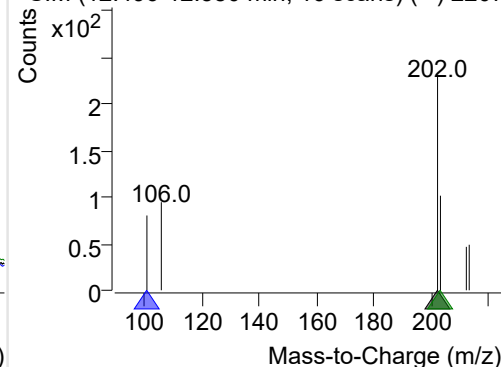
+ Selected Ion (202.0) 220707-PAHs-027.D



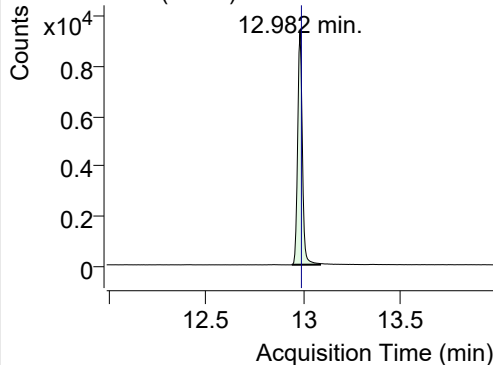
202.0, 101.0, 203.0



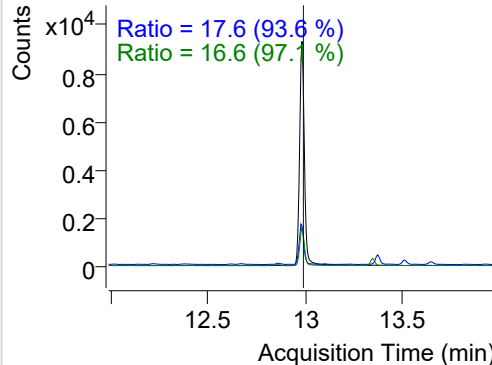
+ SIM (12.496-12.580 min, 16 scans) (**) 2207

**LSS-D10-Pyrene**

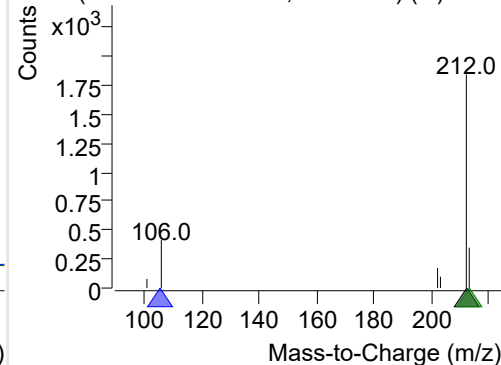
+ Selected Ion (212.0) 220707-PAHs-027.D



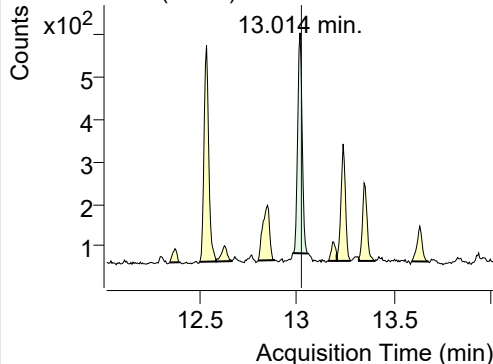
212.0, 106.0, 213.0



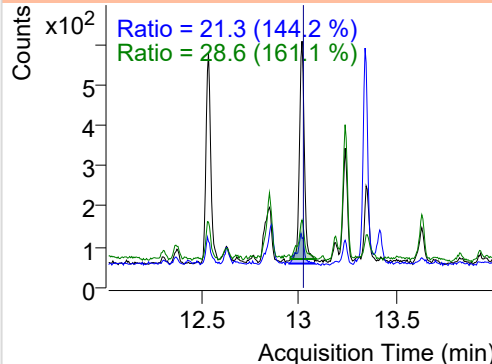
+ SIM (12.939-13.084 min, 27 scans) (**) 2207

**Pyrene**

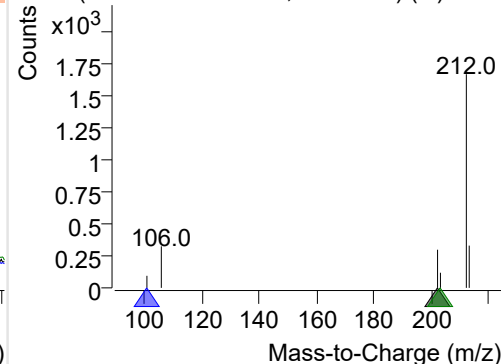
+ Selected Ion (202.0) 220707-PAHs-027.D



202.0, 101.0, 203.0



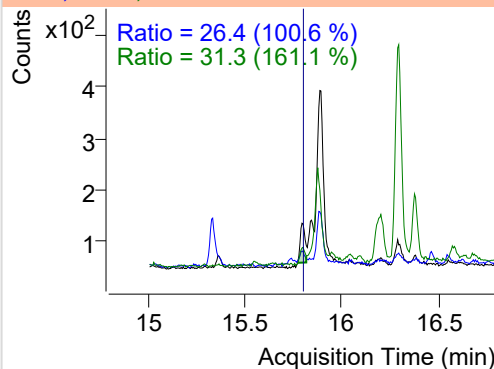
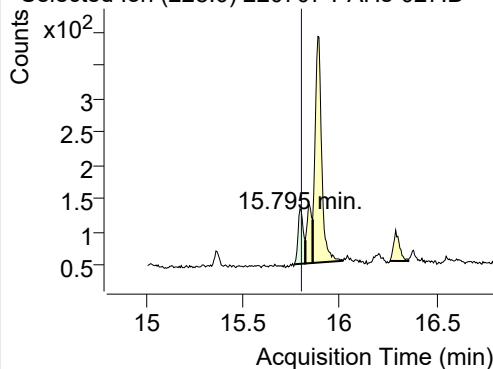
+ SIM (12.982-13.052 min, 12 scans) (**) 2207



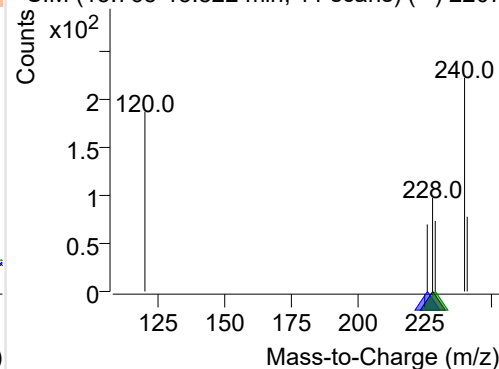
Benz(a)anthracene

+ Selected Ion (228.0) 220707-PAHs-027.D

228.0, 226.0, 229.0

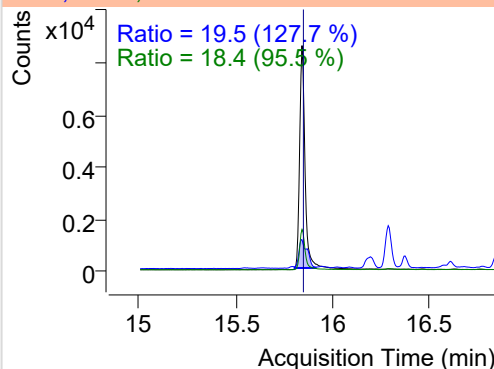
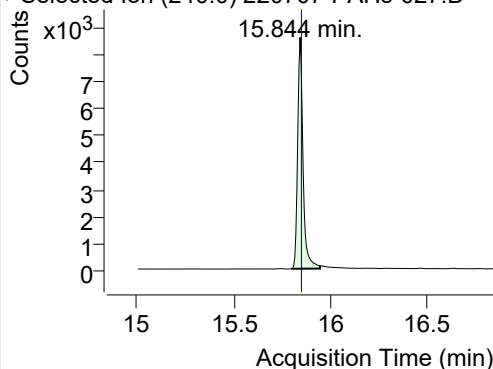


+ SIM (15.765-15.822 min, 11 scans) (**) 2207

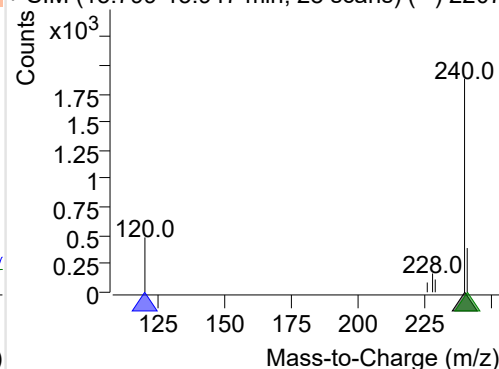
**IS-D12-Chrysene**

+ Selected Ion (240.0) 220707-PAHs-027.D

240.0, 120.0, 241.0

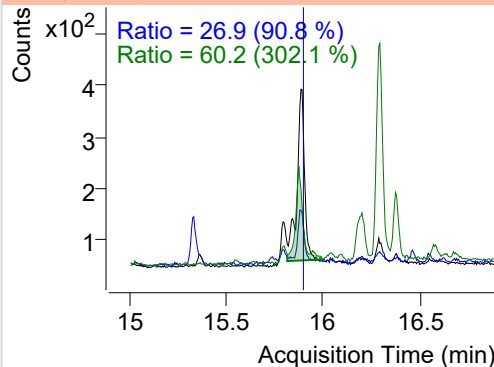
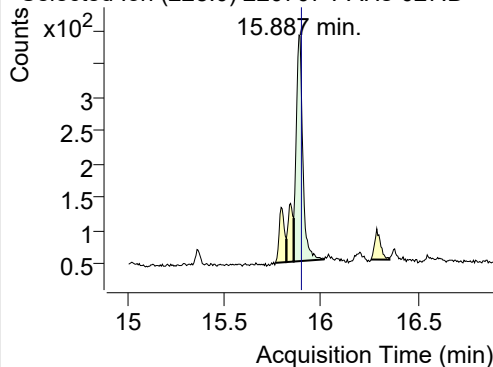


+ SIM (15.799-15.947 min, 28 scans) (**) 2207

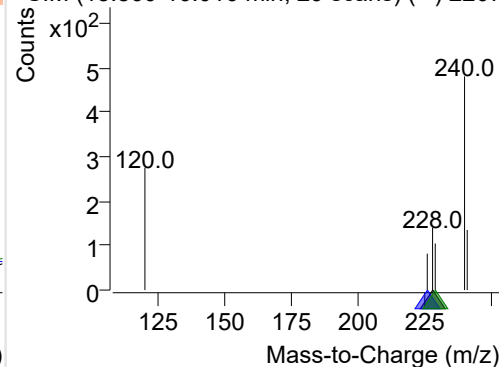
**Chrysene**

+ Selected Ion (228.0) 220707-PAHs-027.D

228.0, 226.0, 229.0

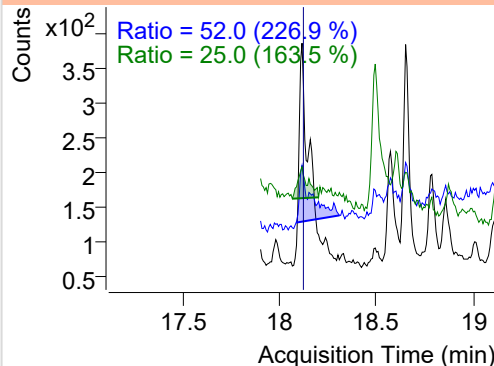
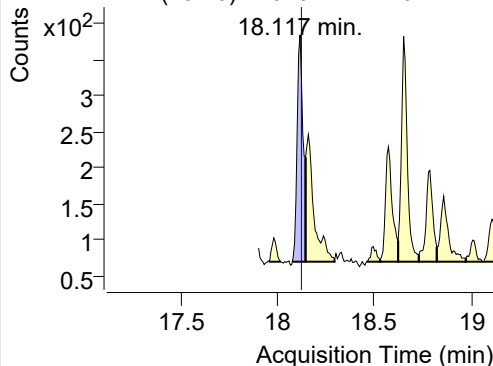


+ SIM (15.860-16.016 min, 29 scans) (**) 2207

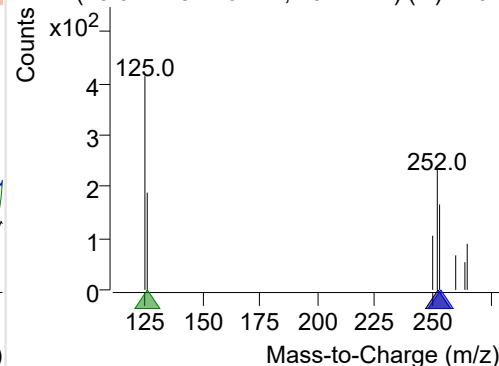
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 220707-PAHs-027.D

252.0, 253.0, 126.0



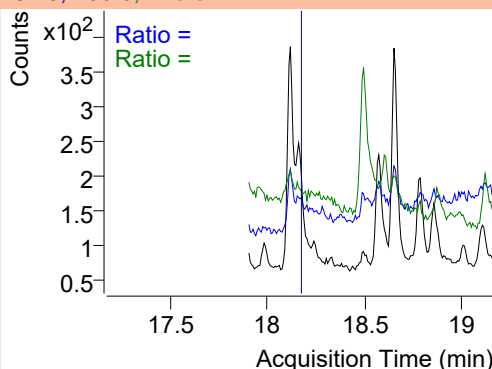
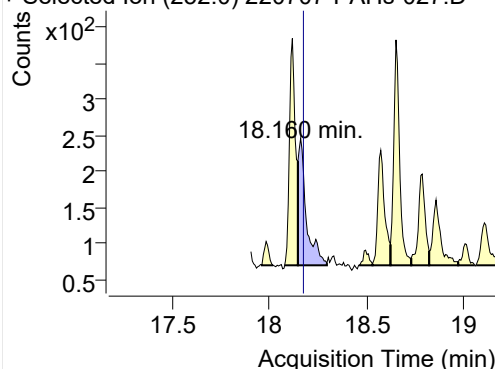
+ SIM (18.077-18.146 min, 10 scans) (**) 2207



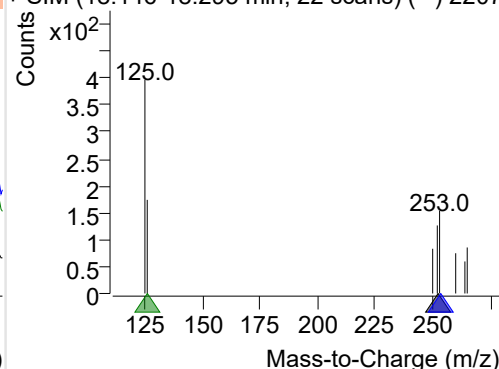
Benzo(k)fluoranthene

+ Selected Ion (252.0) 220707-PAHs-027.D

252.0, 253.0, 126.0

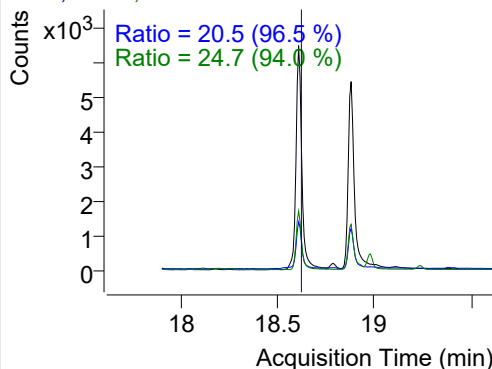
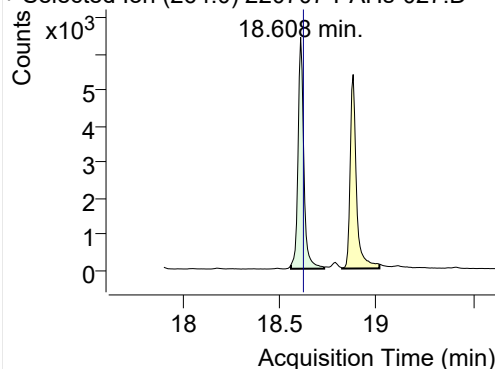


+ SIM (18.146-18.295 min, 22 scans) (**) 2207

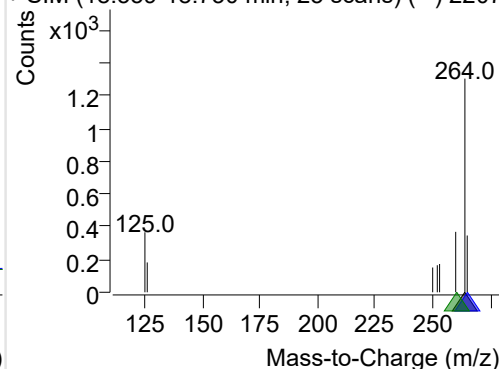
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 220707-PAHs-027.D

264.0, 265.0, 260.0

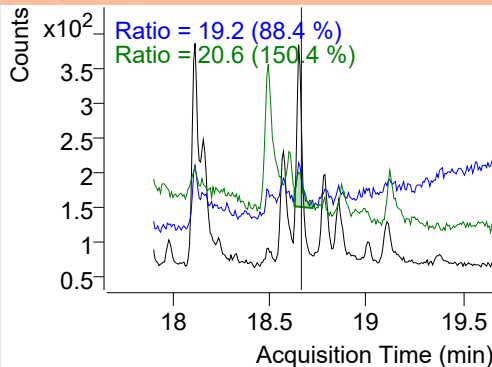
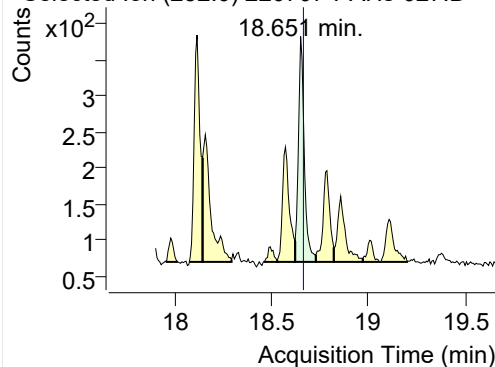


+ SIM (18.559-18.730 min, 25 scans) (**) 2207

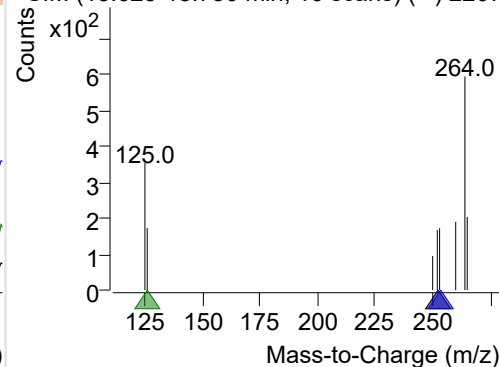
**Benzo(e)pyrene**

+ Selected Ion (252.0) 220707-PAHs-027.D

252.0, 253.0, 126.0

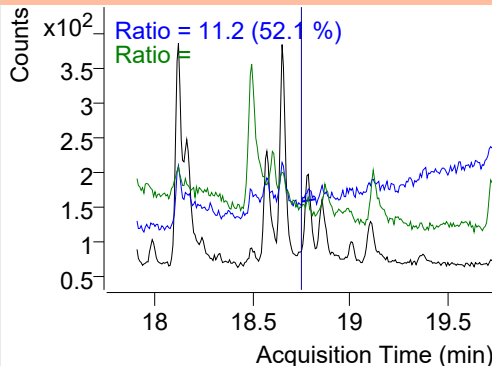
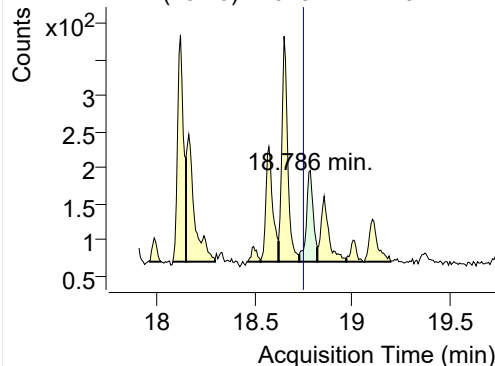


+ SIM (18.623-18.730 min, 16 scans) (**) 2207

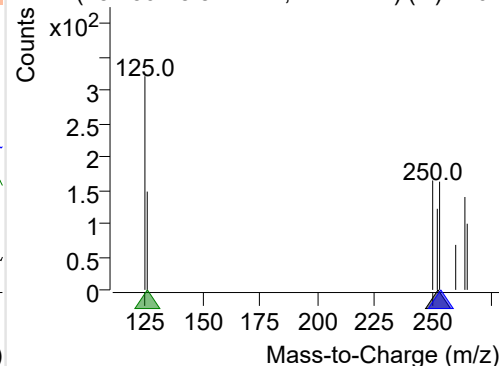
**Benzo(a)pyrene**

+ Selected Ion (252.0) 220707-PAHs-027.D

252.0, 253.0, 126.0

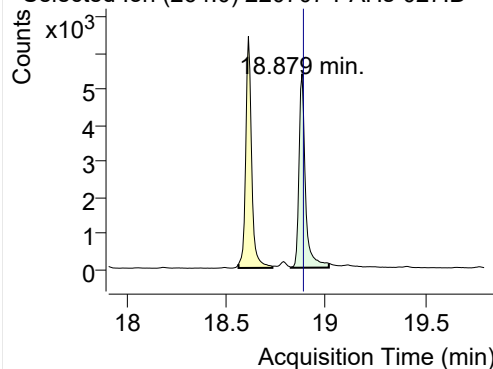


+ SIM (18.730-18.822 min, 14 scans) (**) 2207

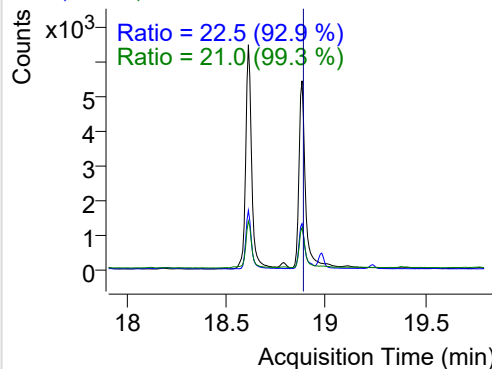


IS-D12-Perylene

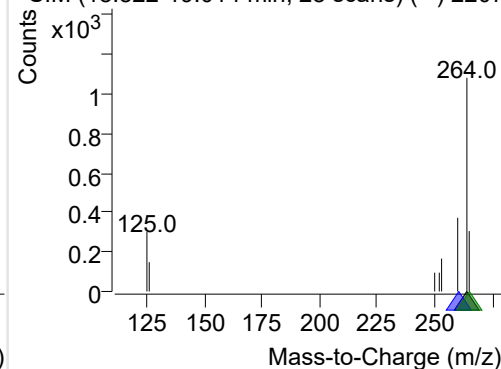
+ Selected Ion (264.0) 220707-PAHs-027.D



264.0, 260.0, 265.0

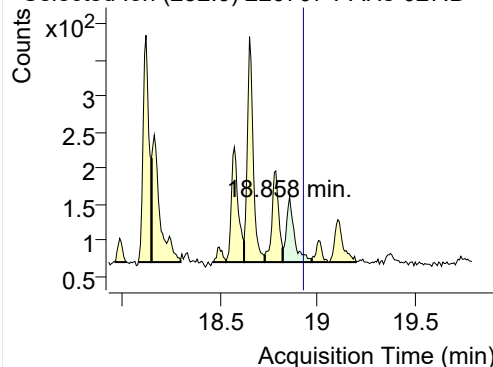


+ SIM (18.822-19.014 min, 28 scans) (**) 2207

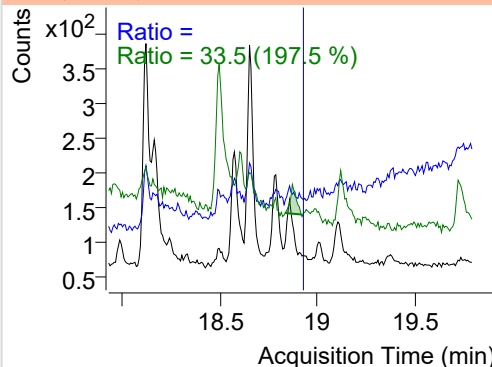


Perylene

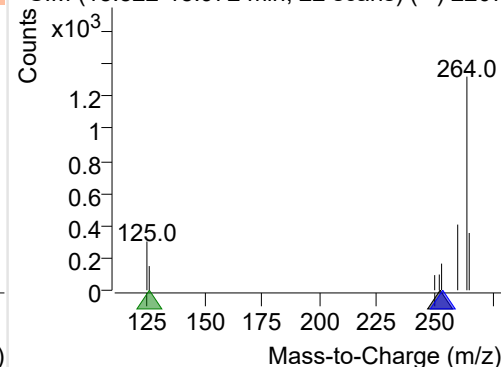
+ Selected Ion (252.0) 220707-PAHs-027.D



252.0, 253.0, 126.0

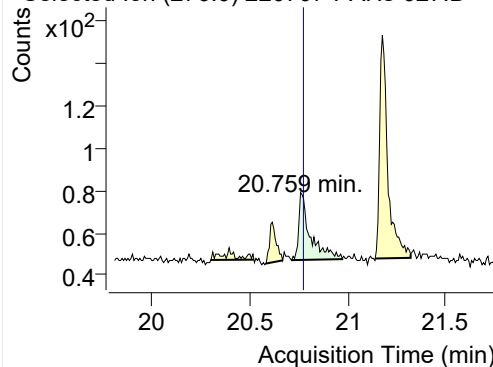


+ SIM (18.822-18.972 min, 22 scans) (**) 2207

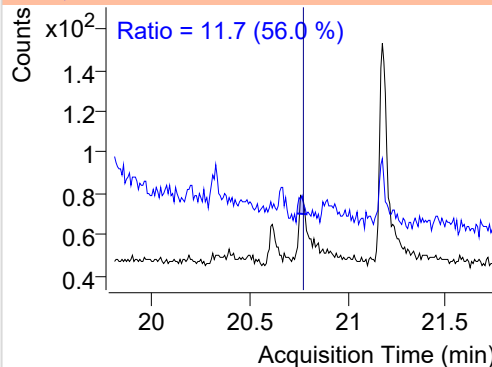


Indeno(1,2,3-c,d)pyrene

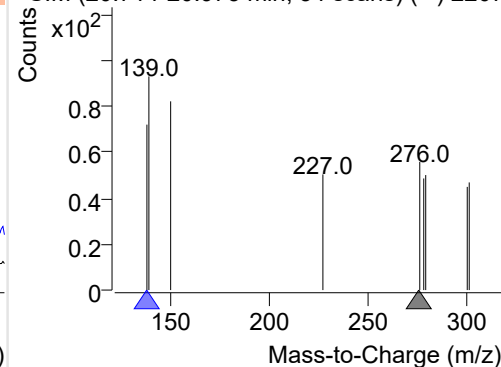
+ Selected Ion (276.0) 220707-PAHs-027.D



276.0, 138.0

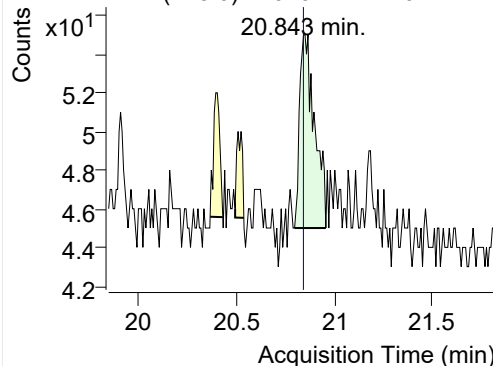


+ SIM (20.714-20.973 min, 34 scans) (**) 2207

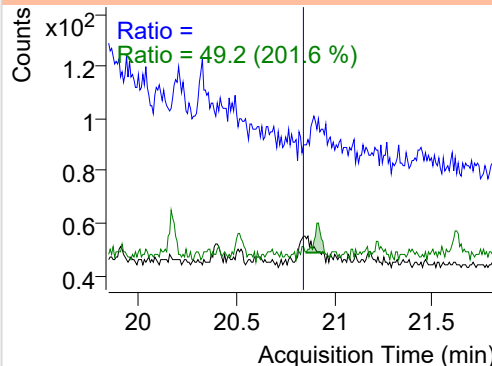


Dibenz(a,h)anthracene

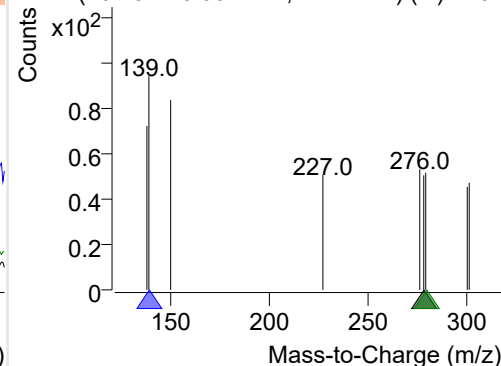
+ Selected Ion (278.0) 220707-PAHs-027.D



278.0, 139.0, 279.0

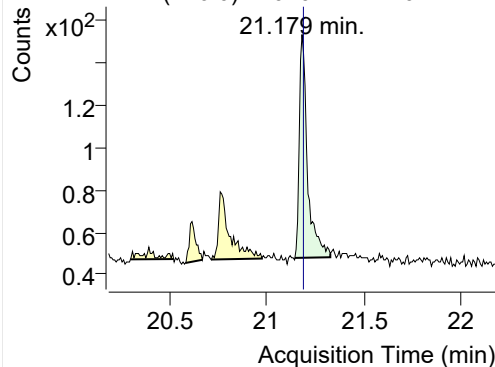


+ SIM (20.797-20.957 min, 22 scans) (**) 2207

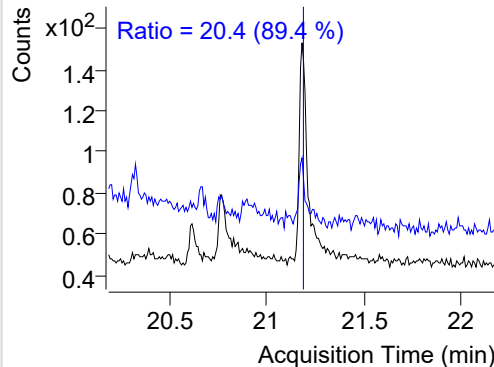


Benzo(g,h,i)perylene

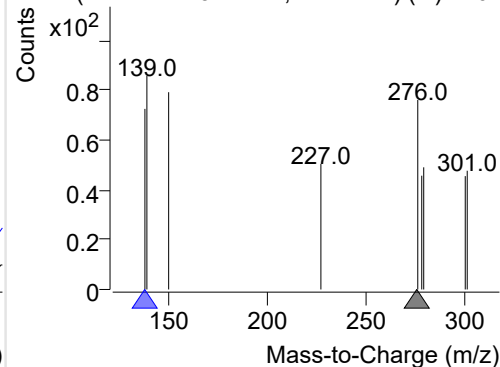
+ Selected Ion (276.0) 220707-PAHs-027.D



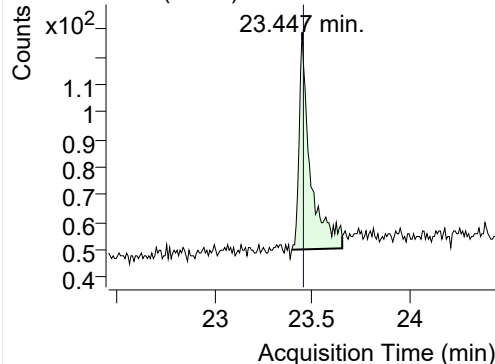
276.0, 138.0



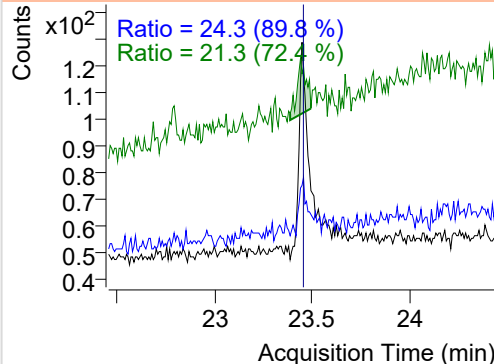
+ SIM (21.142-21.324 min, 24 scans) (**) 2207

**Coronene**

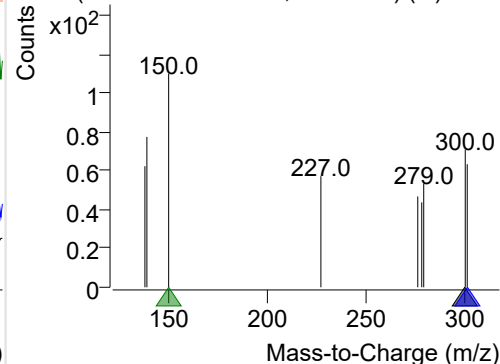
+ Selected Ion (300.0) 220707-PAHs-027.D



300.0, 301.0, 150.0



+ SIM (23.394-23.653 min, 34 scans) (**) 2207



Quantitative Analysis Sample Based Report

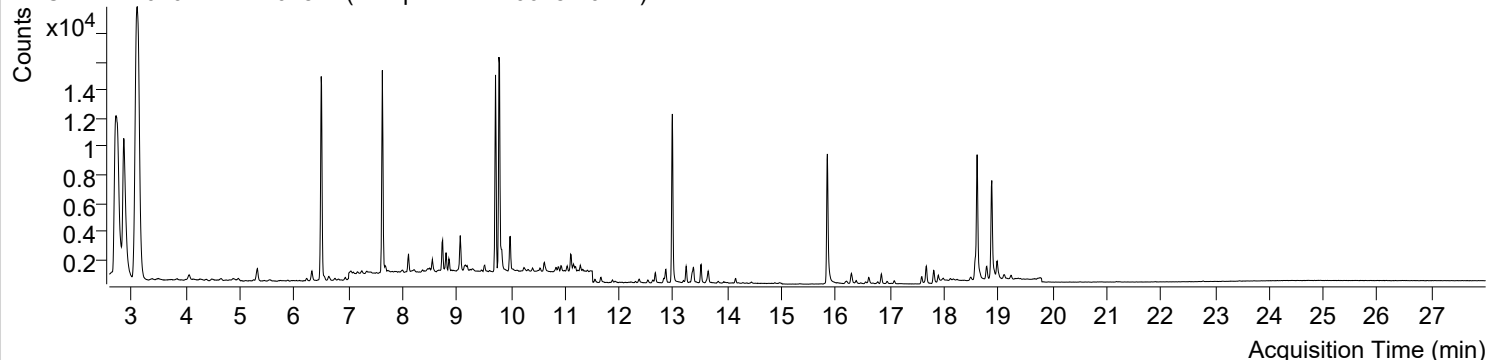


Trusted Answers

| | | | |
|---------------------------|--|-----------------------|------------------------|
| Batch Data Path File Name | D:\MassHunter\GCMS\1\data\PAHs\220707-PAHs-Sample\QuantResults\220707-PAHs-Quant.batch.bin | | |
| Analysis Time Stamp | 2022-07-09 오전 11:12:52 | Analyst Name | DESKTOP-86B7UPG\5975MS |
| Report Generation Time | 2022-07-09 오전 11:13:20 | Report Generator Name | DESKTOP-86B7UPG\5975MS |
| Calibration Last Update | 2022-07-09 오전 11:04:15 | Batch State | Processed |
| Analyze Quant Version | 10.2 | Report Quant Version | 10.2 |
| Acq. Date-Time | 2022-07-08 오전 3:19:09 | Data File | 220707-PAHs-028.D |
| Type | Sample | Name | Sample-PM-220628-10DIL |
| Dil. | 1 | Acq. Method File | PAHs 19mix-Method |

Sample Chromatogram

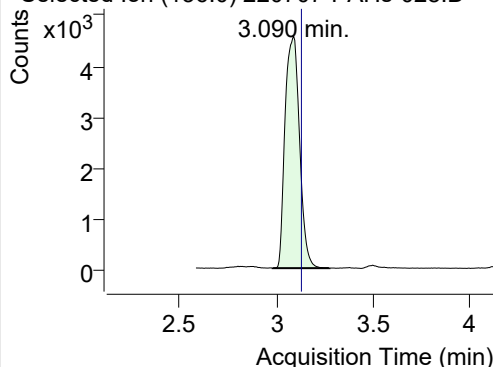
+ TIC SIM 220707-PAHs-028.D (Sample-PM-220628-10DIL)



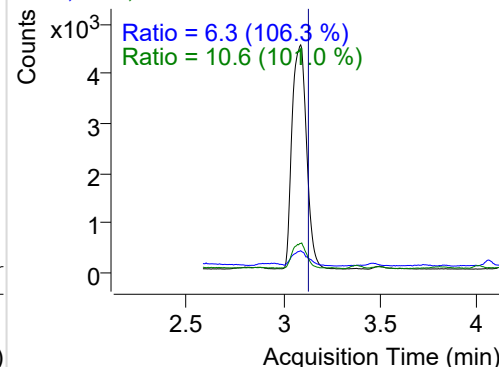
| Name | RT | Transition | Resp. | Height | Final Conc. Units | Ratio |
|-------------------------|--------|------------|-------|----------|-------------------|-------|
| IS-D8-Naphthalene | 3.090 | 136.0 | 23423 | 4515.95 | ND ng/ml | 10.6 |
| Naphthalene | 3.117 | 128.0 | 61371 | 11870.65 | ND ng/ml | 12.8 |
| Acenaphthylene | 6.321 | 152.0 | 67 | 16.00 | ND ng/ml | 391.7 |
| IS-D10-Acenaphthene | 6.498 | 164.0 | 12853 | 6875.40 | ND ng/ml | 95.9 |
| Acenaphthene | 6.558 | 154.0 | 122 | 55.53 | ND ng/ml | 110.0 |
| LSS-D10-Fluorene | 7.627 | 176.0 | 10641 | 6415.26 | ND ng/ml | 93.0 |
| Fluorene | 7.680 | 166.0 | 299 | 147.20 | ND ng/ml | 108.2 |
| IS-D10-Phenanthrene | 9.790 | 188.0 | 21854 | 11970.38 | ND ng/ml | 15.5 |
| Phenanthrene | 9.832 | 178.0 | 1282 | 726.14 | ND ng/ml | 20.0 |
| Anthracene | 9.990 | 178.0 | 1128 | 676.82 | ND ng/ml | 28.8 |
| Fluoranthene | 12.532 | 202.0 | 239 | 145.14 | ND ng/ml | 25.5 |
| LSS-D10-Pyrene | 12.981 | 212.0 | 14898 | 8814.64 | ND ng/ml | 17.6 |
| Pyrene | 13.014 | 202.0 | 265 | 148.72 | ND ng/ml | 30.7 |
| Benz(a)anthracene | 15.800 | 228.0 | 36 | 20.30 | ND ng/ml | |
| IS-D12-Chrysene | 15.843 | 240.0 | 13443 | 6912.84 | ND ng/ml | 18.9 |
| Chrysene | 15.892 | 228.0 | 167 | 68.65 | ND ng/ml | 31.7 |
| Benzo(b)fluoranthene | 18.117 | 252.0 | 209 | 60.92 | ND ng/ml | 13.3 |
| Benzo(k)fluoranthene | 18.117 | 252.0 | 209 | 60.92 | ND ng/ml | 13.3 |
| SS-D12-Benzo(e)pyrene | 18.608 | 264.0 | 12165 | 5904.32 | ND ng/ml | 24.6 |
| Benzo(e)pyrene | 18.658 | 252.0 | 322 | 143.79 | ND ng/ml | 14.3 |
| Benzo(a)pyrene | 18.779 | 252.0 | 432 | 183.44 | ND ng/ml | 13.6 |
| IS-D12-Perylene | 18.879 | 264.0 | 9901 | 4716.29 | ND ng/ml | 25.3 |
| Perylene | 18.850 | 252.0 | 370 | 126.12 | ND ng/ml | 11.1 |
| Indeno(1,2,3-c,d)pyrene | 20.766 | 276.0 | 29 | 9.80 | ND ng/ml | 39.4 |
| Dibenz(a,h)anthracene | 20.843 | 278.0 | 34 | 9.26 | ND ng/ml | |
| Benzo(g,h,i)perylene | 21.179 | 276.0 | 48 | 20.84 | ND ng/ml | 26.2 |
| Coronene | 23.454 | 300.0 | 47 | 16.59 | ND ng/ml | |

IS-D8-Naphthalene

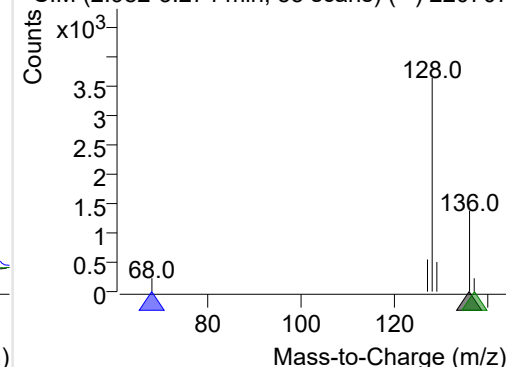
+ Selected Ion (136.0) 220707-PAHs-028.D



136.0, 68.0, 137.0

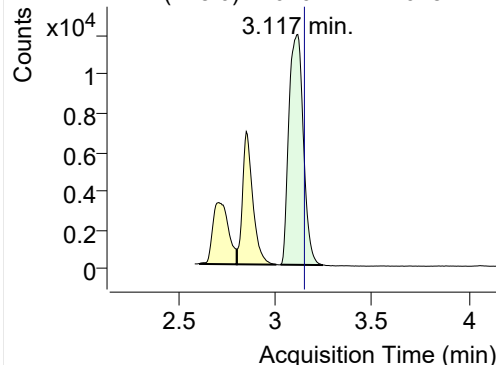


+ SIM (2.982-3.274 min, 55 scans) (**) 220707

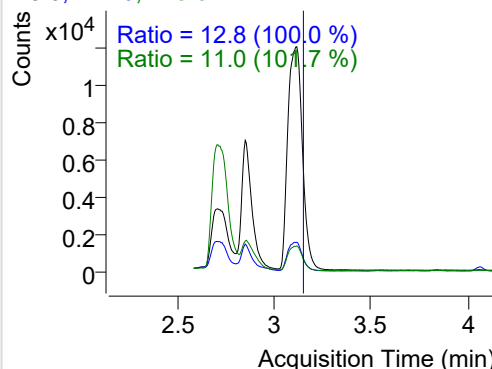


Naphthalene

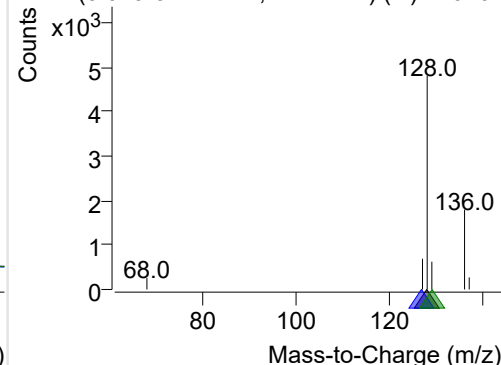
+ Selected Ion (128.0) 220707-PAHs-028.D



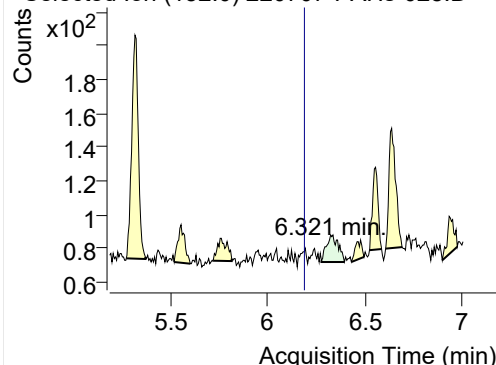
128.0, 127.0, 129.0



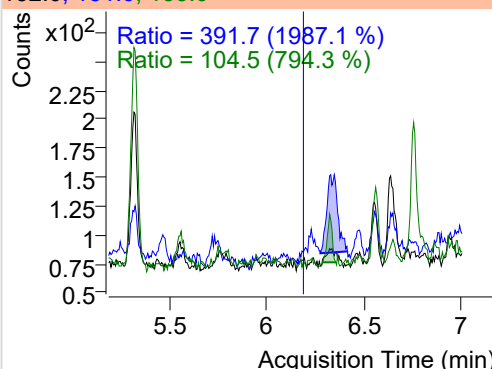
+ SIM (3.029-3.247 min, 41 scans) (**) 220707

**Acenaphthylene**

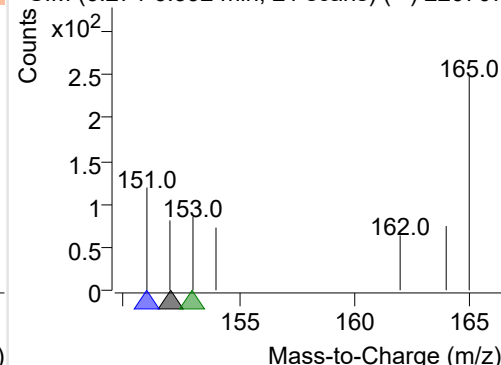
+ Selected Ion (152.0) 220707-PAHs-028.D



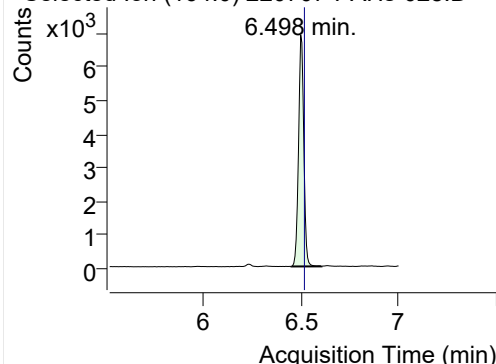
152.0, 151.0, 153.0



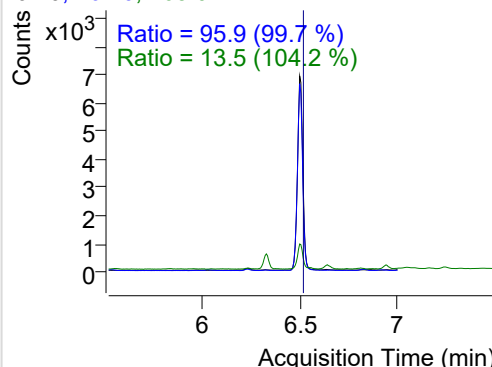
+ SIM (6.274-6.392 min, 21 scans) (**) 220707

**IS-D10-Acenaphthene**

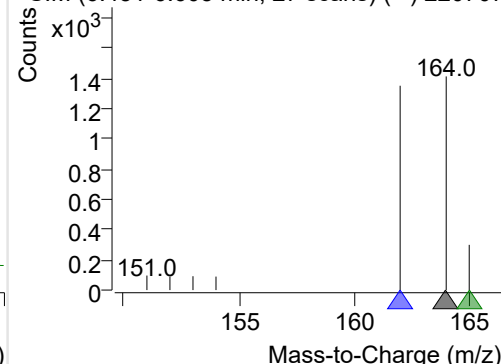
+ Selected Ion (164.0) 220707-PAHs-028.D



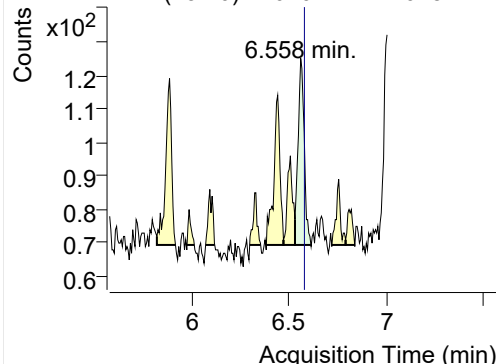
164.0, 162.0, 165.0



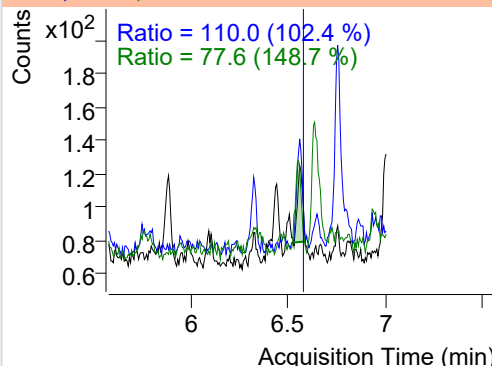
+ SIM (6.451-6.605 min, 27 scans) (**) 220707

**Acenaphthene**

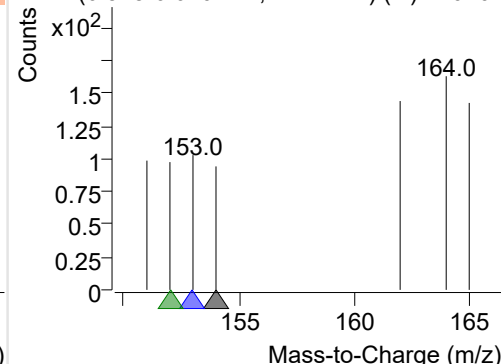
+ Selected Ion (154.0) 220707-PAHs-028.D



154.0, 153.0, 152.0

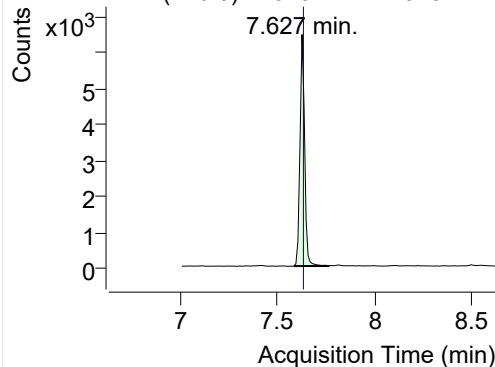


+ SIM (6.528-6.610 min, 14 scans) (**) 220707

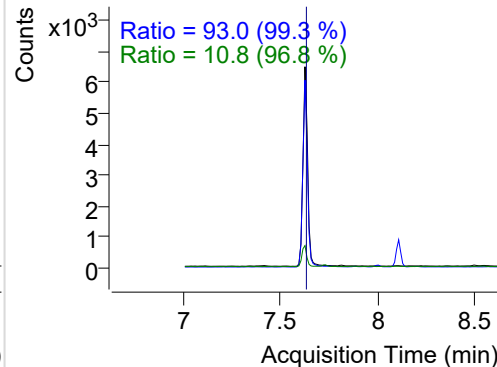


LSS-D10-Fluorene

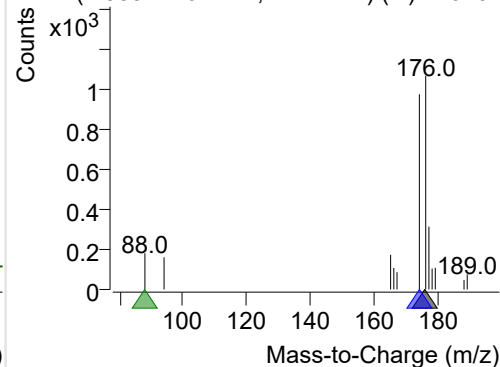
+ Selected Ion (176.0) 220707-PAHs-028.D



176.0, 174.0, 88.0

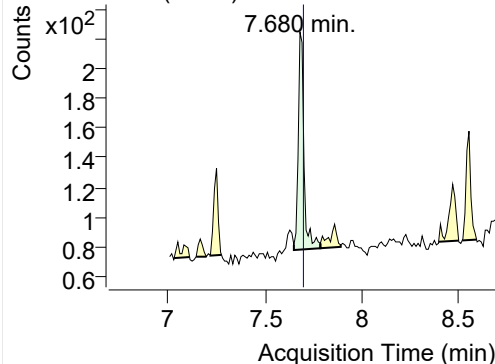


+ SIM (7.585-7.764 min, 17 scans) (**) 220707

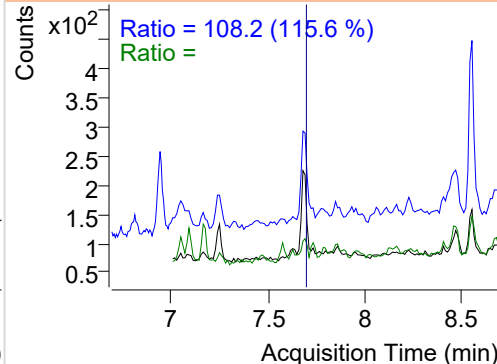


Fluorene

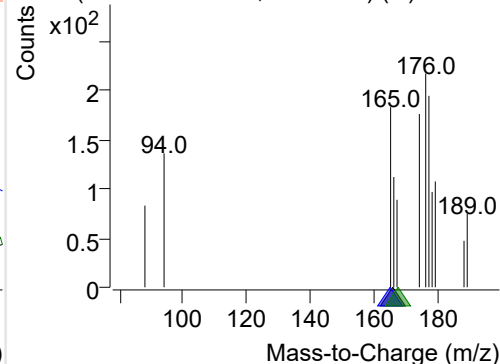
+ Selected Ion (166.0) 220707-PAHs-028.D



166.0, 165.0, 167.0

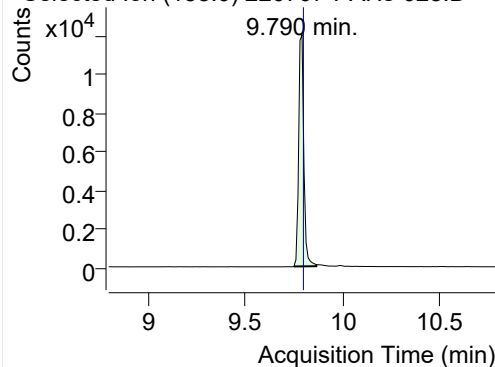


+ SIM (7.648-7.785 min, 14 scans) (**) 220707

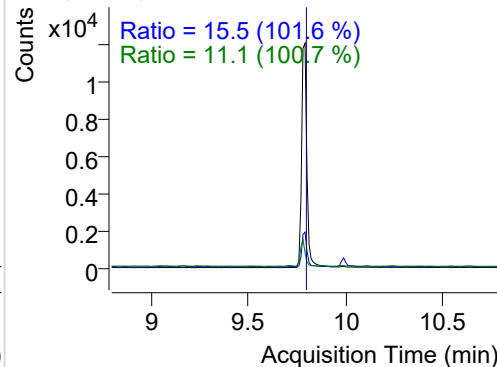


IS-D10-Phenanthrene

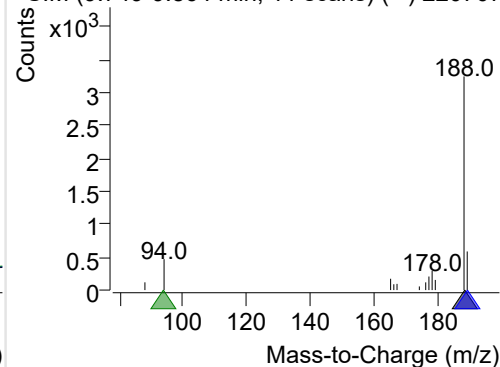
+ Selected Ion (188.0) 220707-PAHs-028.D



188.0, 189.0, 94.0

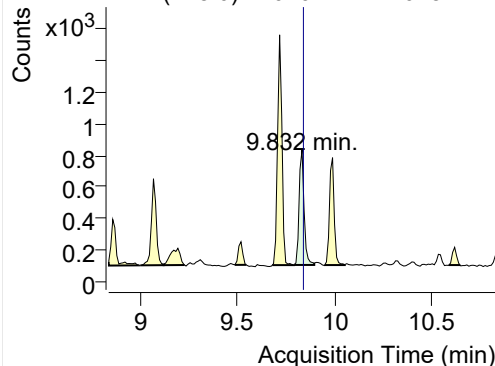


+ SIM (9.749-9.864 min, 11 scans) (**) 220707

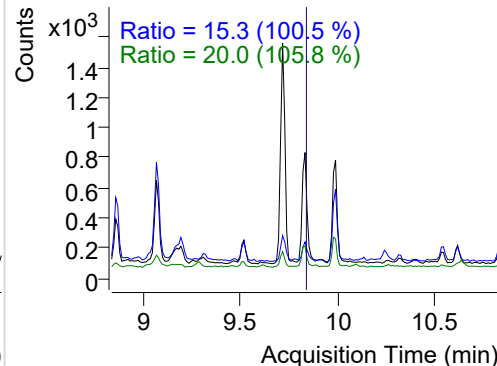


Phenanthrene

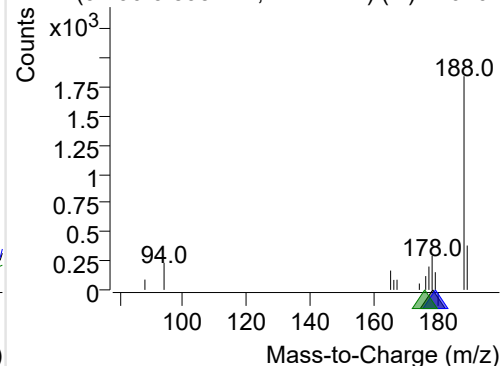
+ Selected Ion (178.0) 220707-PAHs-028.D



178.0, 179.0, 176.0

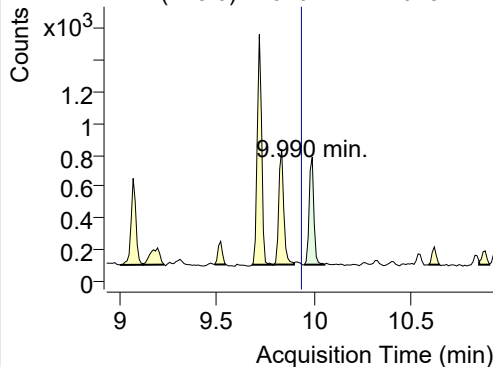


+ SIM (9.790-9.895 min, 11 scans) (**) 220707

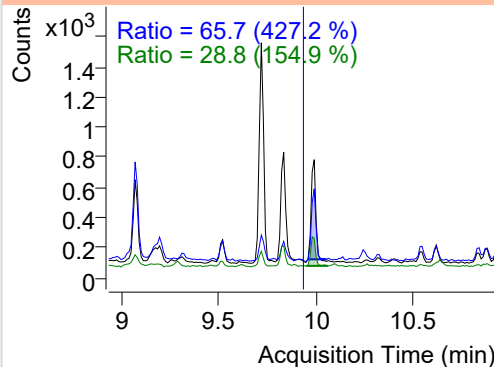


Anthracene

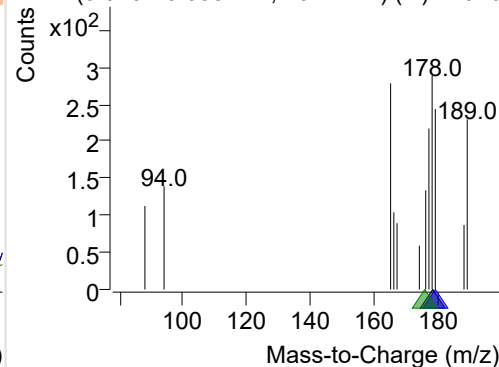
+ Selected Ion (178.0) 220707-PAHs-028.D



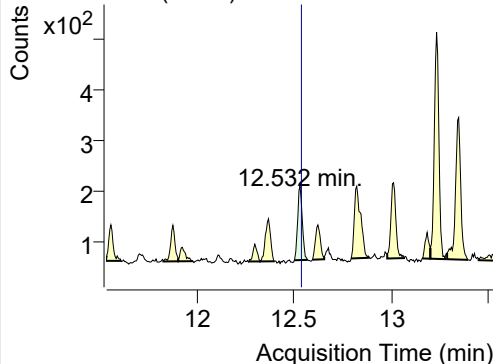
178.0, 179.0, 176.0



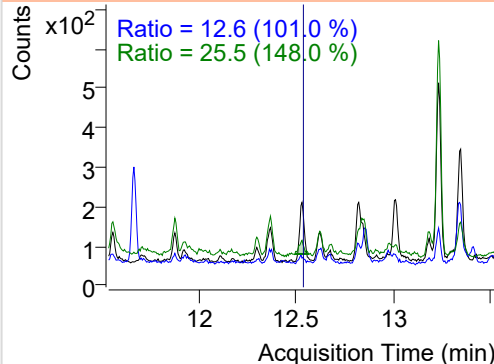
+ SIM (9.949-10.053 min, 10 scans) (**) 22070

**Fluoranthene**

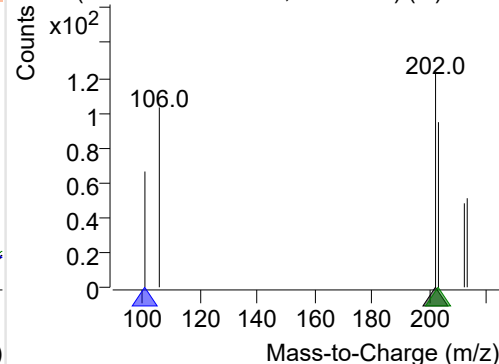
+ Selected Ion (202.0) 220707-PAHs-028.D



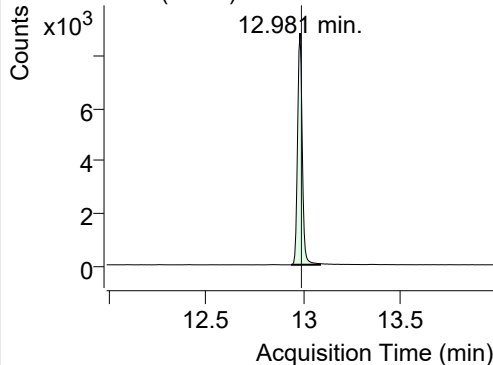
202.0, 101.0, 203.0



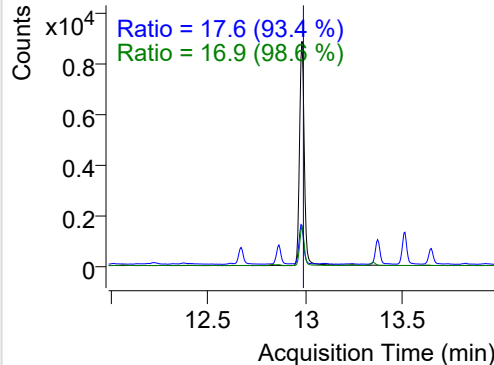
+ SIM (12.502-12.571 min, 13 scans) (**) 2207

**LSS-D10-Pyrene**

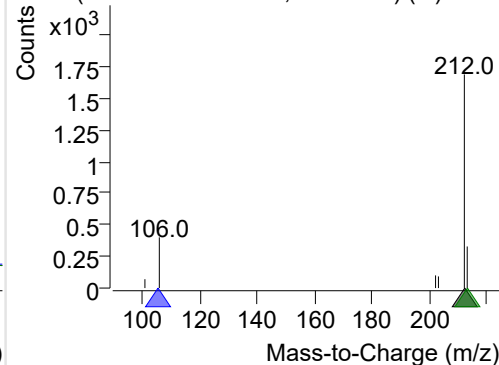
+ Selected Ion (212.0) 220707-PAHs-028.D



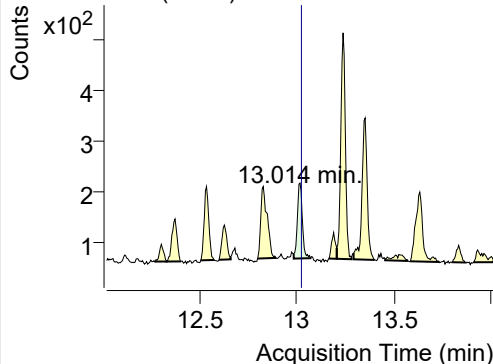
212.0, 106.0, 213.0



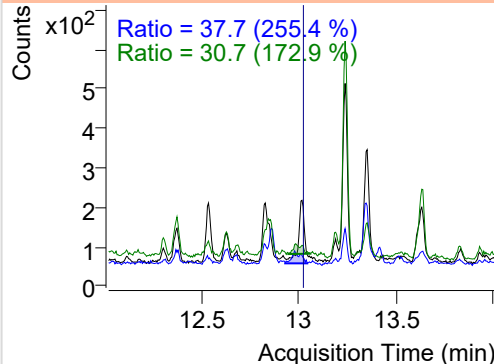
+ SIM (12.935-13.084 min, 28 scans) (**) 2207

**Pyrene**

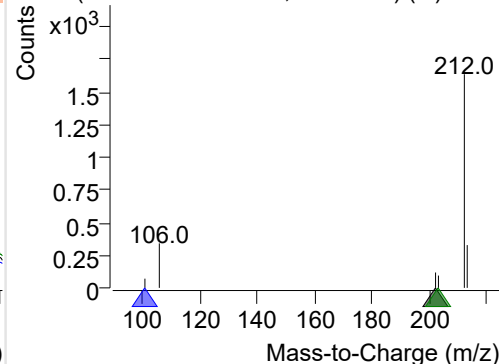
+ Selected Ion (202.0) 220707-PAHs-028.D



202.0, 101.0, 203.0



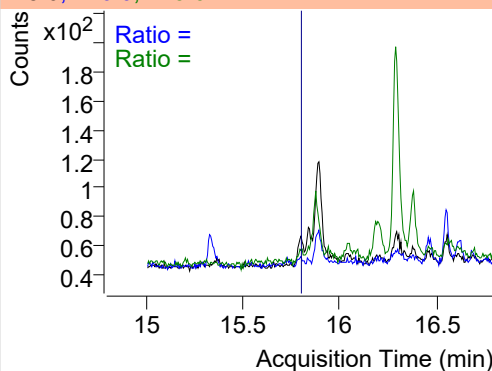
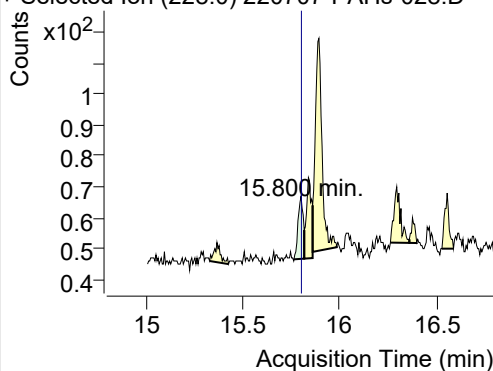
+ SIM (12.981-13.068 min, 17 scans) (**) 2207



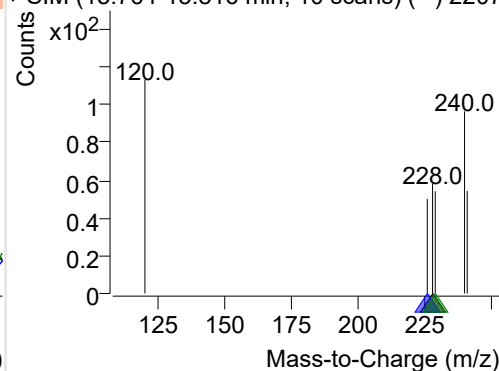
Benz(a)anthracene

+ Selected Ion (228.0) 220707-PAHs-028.D

228.0, 226.0, 229.0

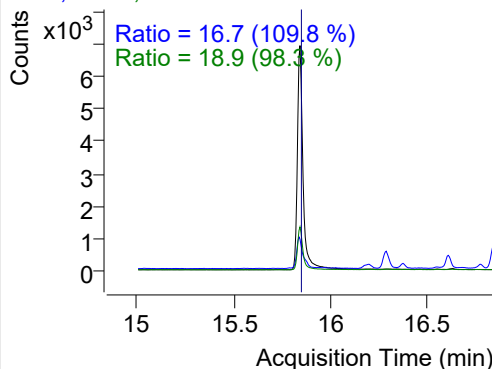
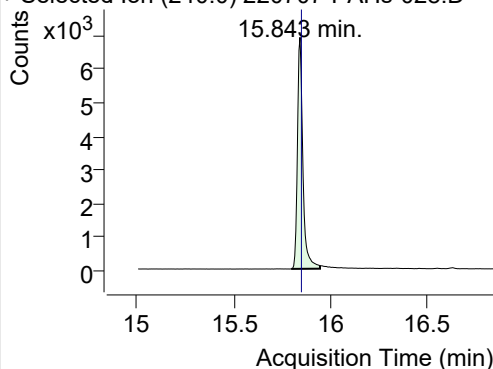


+ SIM (15.764-15.816 min, 10 scans) (**) 2207

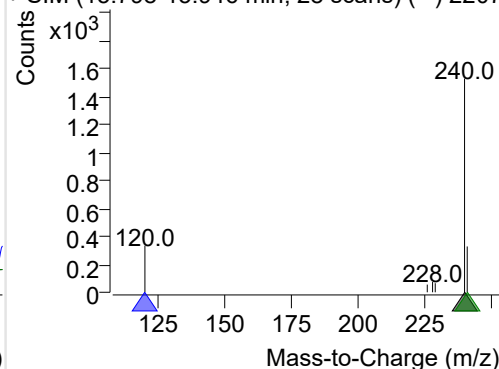
**IS-D12-Chrysene**

+ Selected Ion (240.0) 220707-PAHs-028.D

240.0, 120.0, 241.0

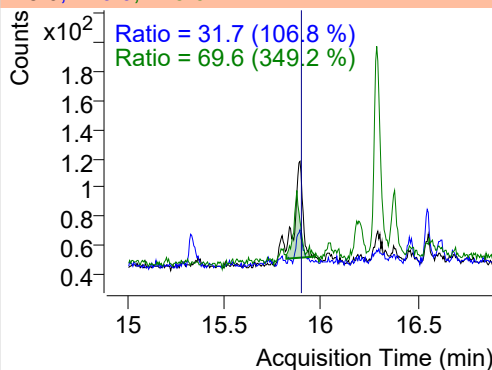
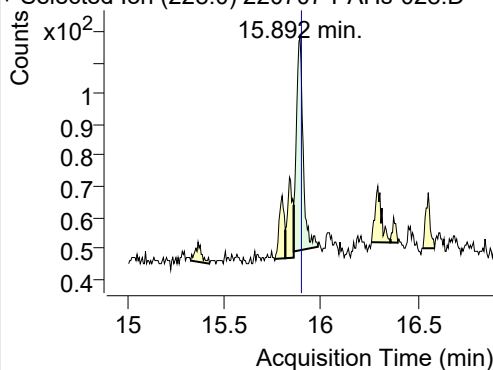


+ SIM (15.798-15.946 min, 28 scans) (**) 2207

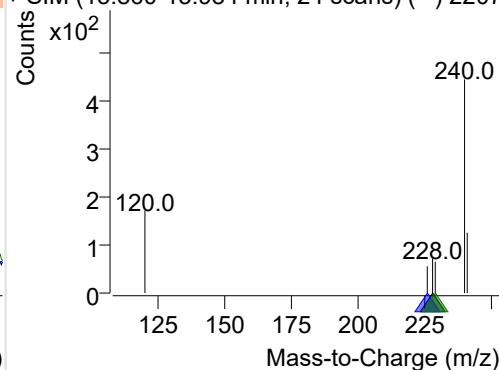
**Chrysene**

+ Selected Ion (228.0) 220707-PAHs-028.D

228.0, 226.0, 229.0

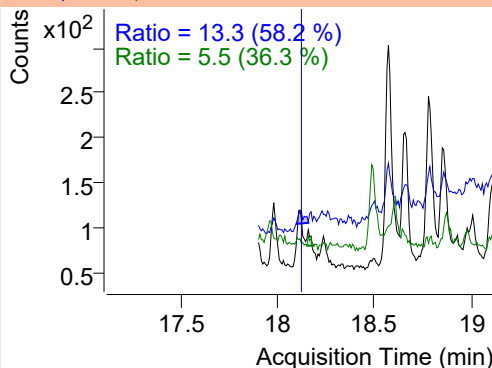
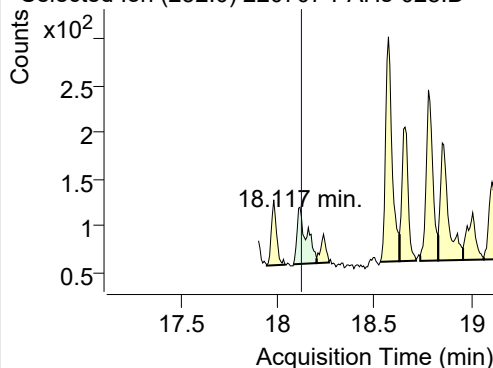


+ SIM (15.860-15.984 min, 24 scans) (**) 2207

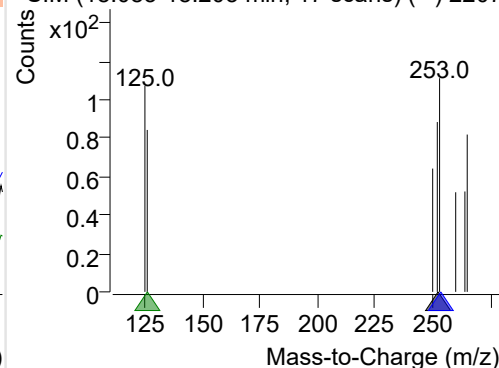
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 220707-PAHs-028.D

252.0, 253.0, 126.0



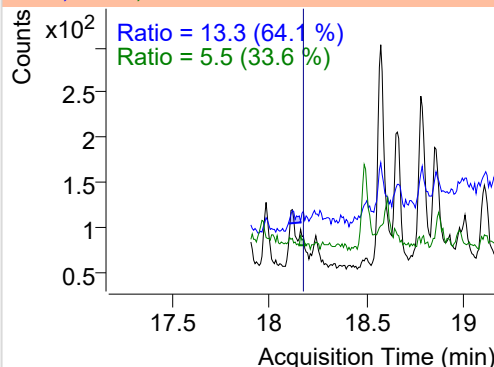
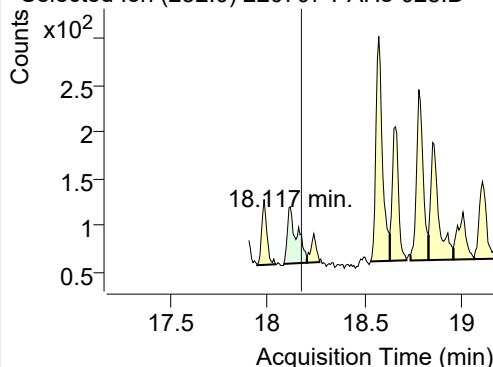
+ SIM (18.083-18.203 min, 17 scans) (**) 2207



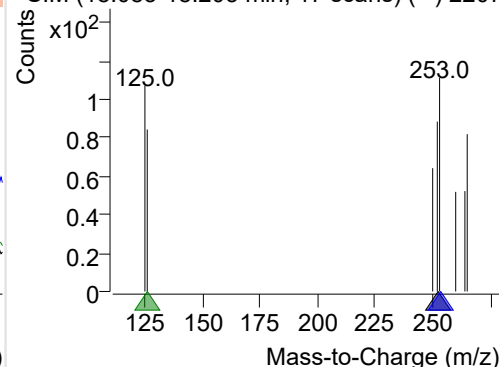
Benzo(k)fluoranthene

+ Selected Ion (252.0) 220707-PAHs-028.D

252.0, 253.0, 126.0

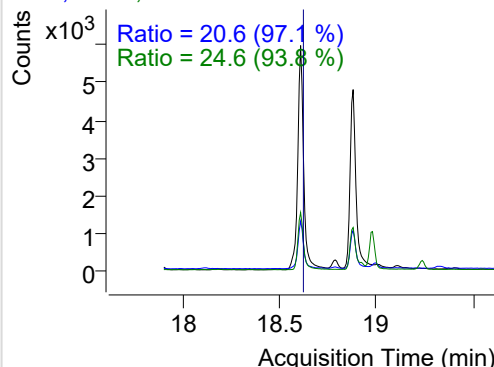
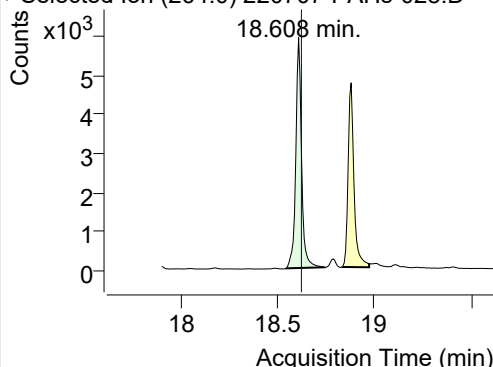


+ SIM (18.083-18.203 min, 17 scans) (**) 2207

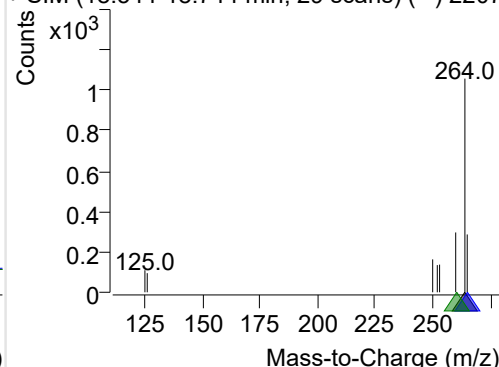
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 220707-PAHs-028.D

264.0, 265.0, 260.0

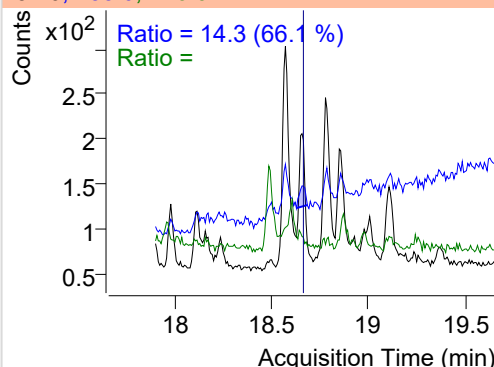
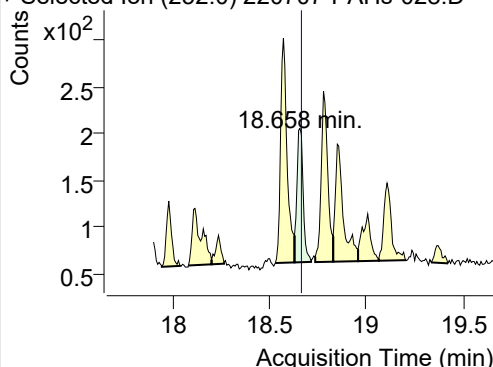


+ SIM (18.544-18.744 min, 29 scans) (**) 2207

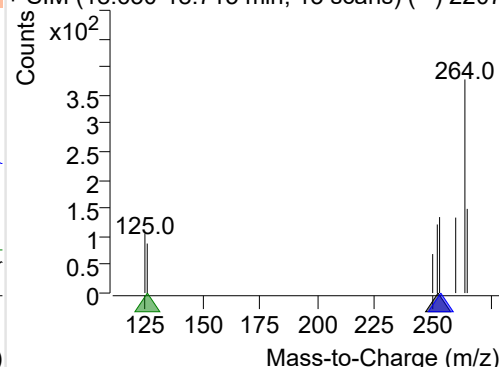
**Benzo(e)pyrene**

+ Selected Ion (252.0) 220707-PAHs-028.D

252.0, 253.0, 126.0

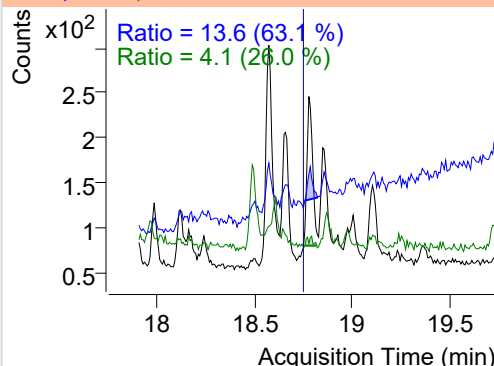
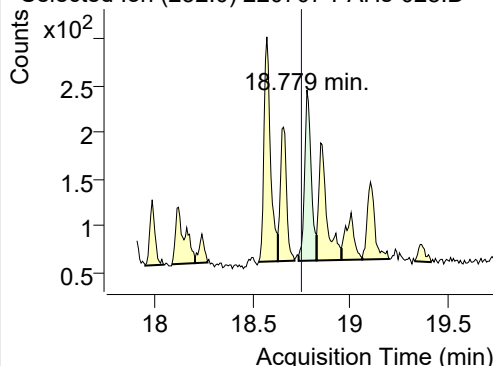


+ SIM (18.630-18.715 min, 13 scans) (**) 2207

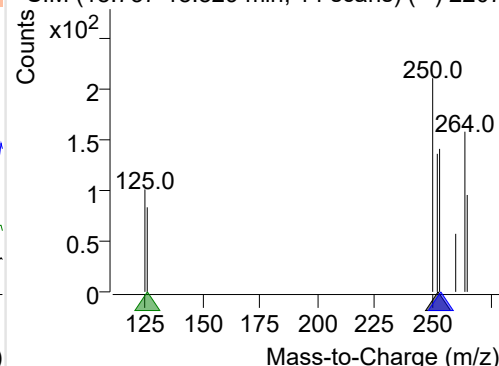
**Benzo(a)pyrene**

+ Selected Ion (252.0) 220707-PAHs-028.D

252.0, 253.0, 126.0

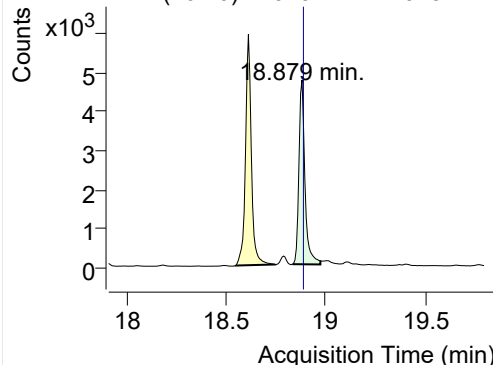


+ SIM (18.737-18.829 min, 14 scans) (**) 2207

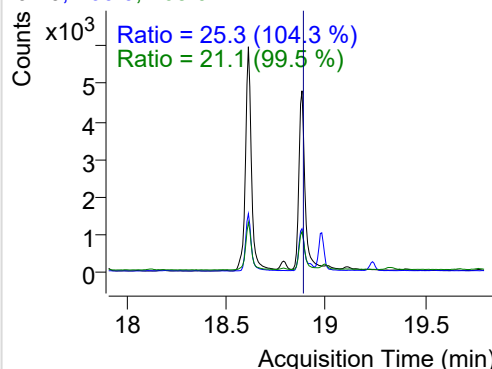


IS-D12-Perylene

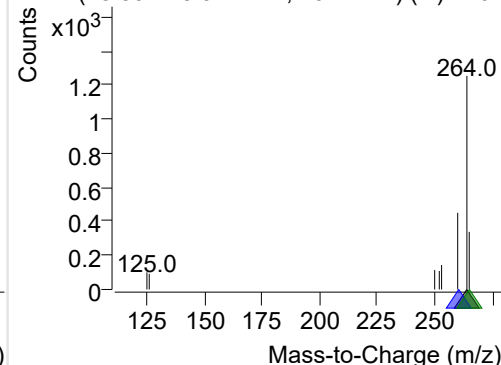
+ Selected Ion (264.0) 220707-PAHs-028.D



264.0, 260.0, 265.0

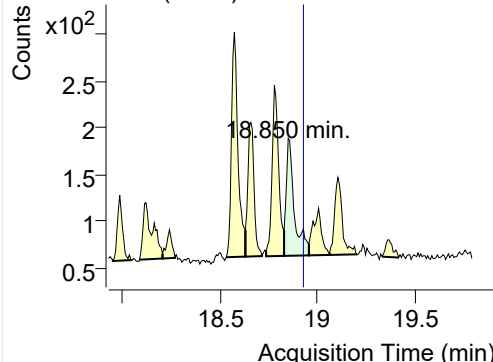


+ SIM (18.831-18.971 min, 20 scans) (**) 2207

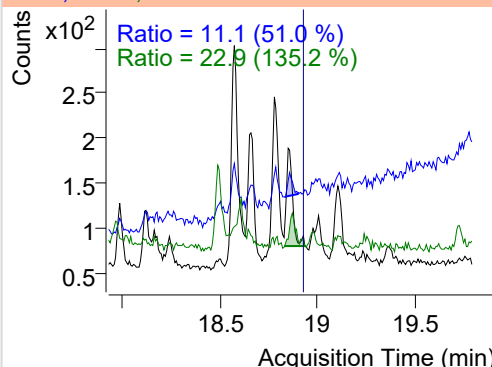


Perylene

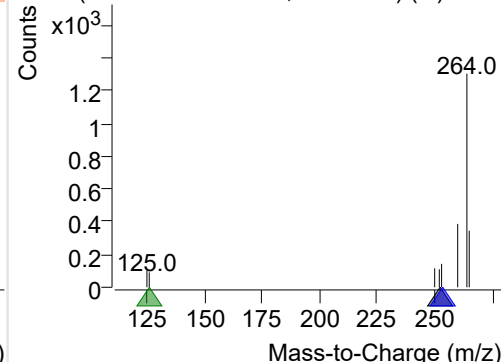
+ Selected Ion (252.0) 220707-PAHs-028.D



252.0, 253.0, 126.0

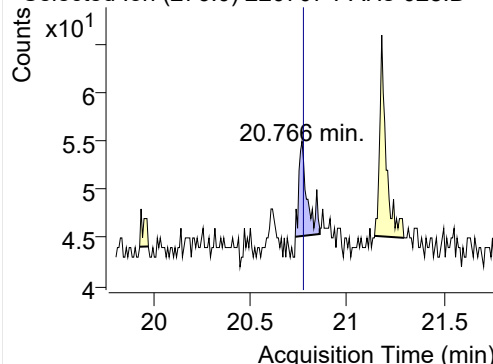


+ SIM (18.829-18.957 min, 19 scans) (**) 2207

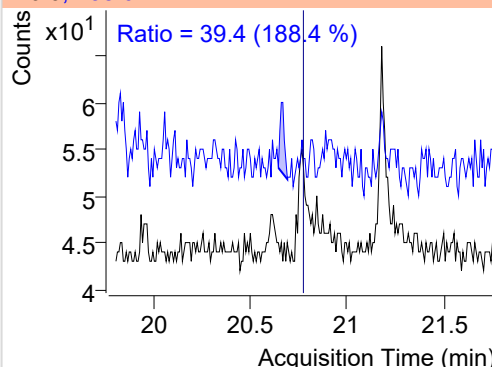


Indeno(1,2,3-c,d)pyrene

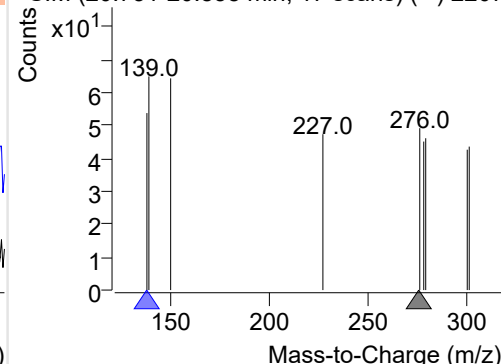
+ Selected Ion (276.0) 220707-PAHs-028.D



276.0, 138.0

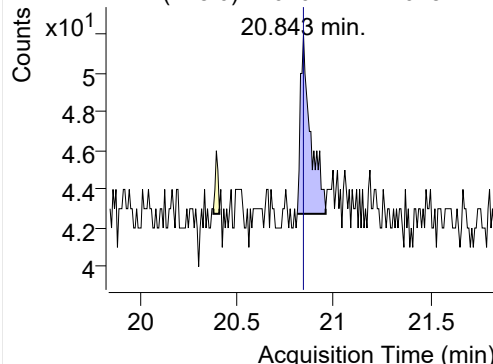


+ SIM (20.731-20.858 min, 17 scans) (**) 2207

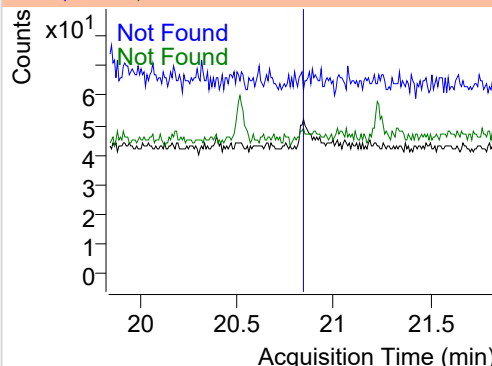


Dibenz(a,h)anthracene

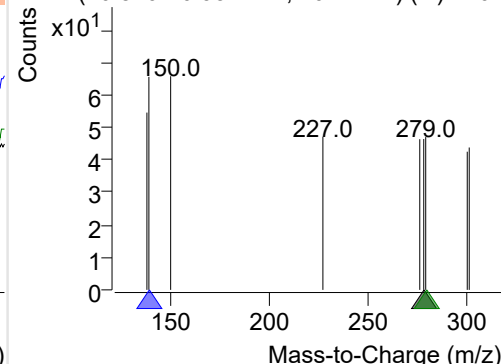
+ Selected Ion (278.0) 220707-PAHs-028.D



278.0, 139.0, 279.0

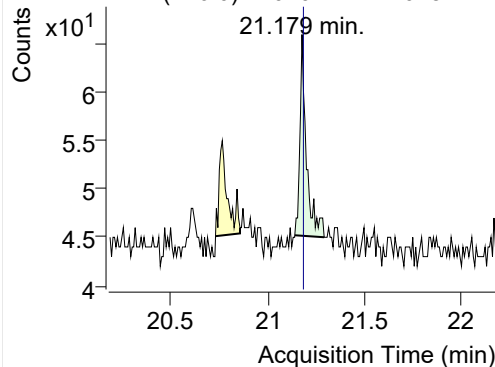


+ SIM (20.810-20.957 min, 20 scans) (**) 2207

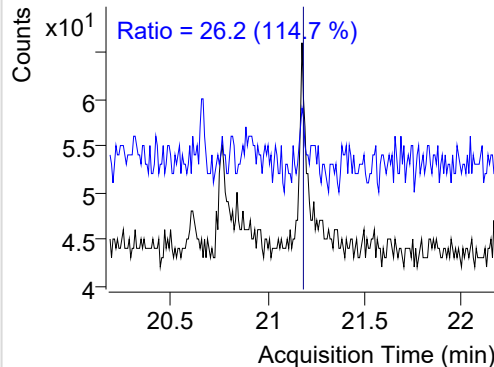


Benzo(g,h,i)perylene

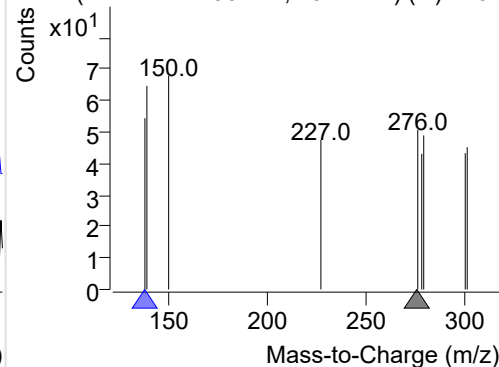
+ Selected Ion (276.0) 220707-PAHs-028.D



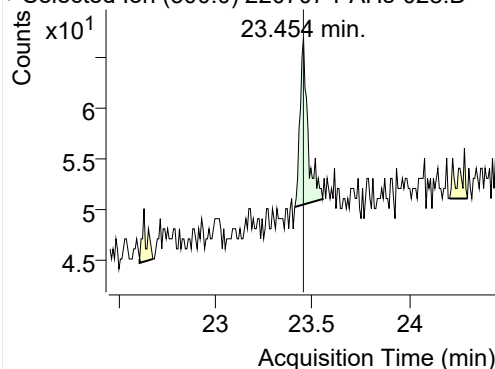
276.0, 138.0



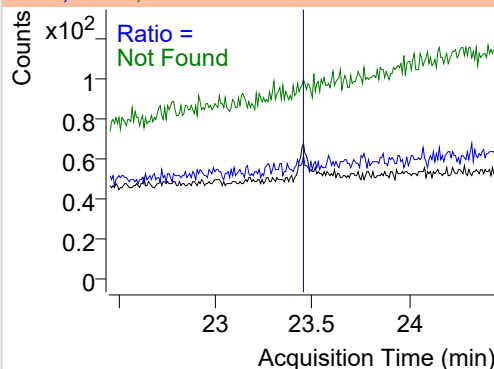
+ SIM (21.141-21.293 min, 19 scans) (**) 2207

**Coronene**

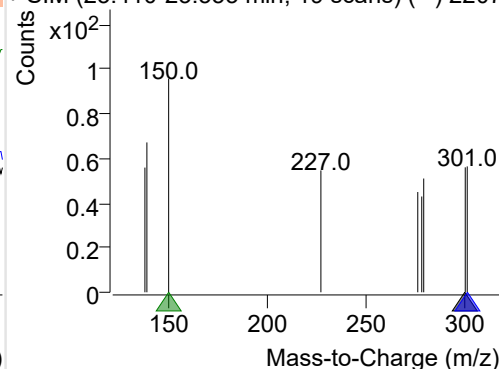
+ Selected Ion (300.0) 220707-PAHs-028.D



300.0, 301.0, 150.0



+ SIM (23.410-23.553 min, 19 scans) (**) 2207



Quantitative Analysis Sample Based Report

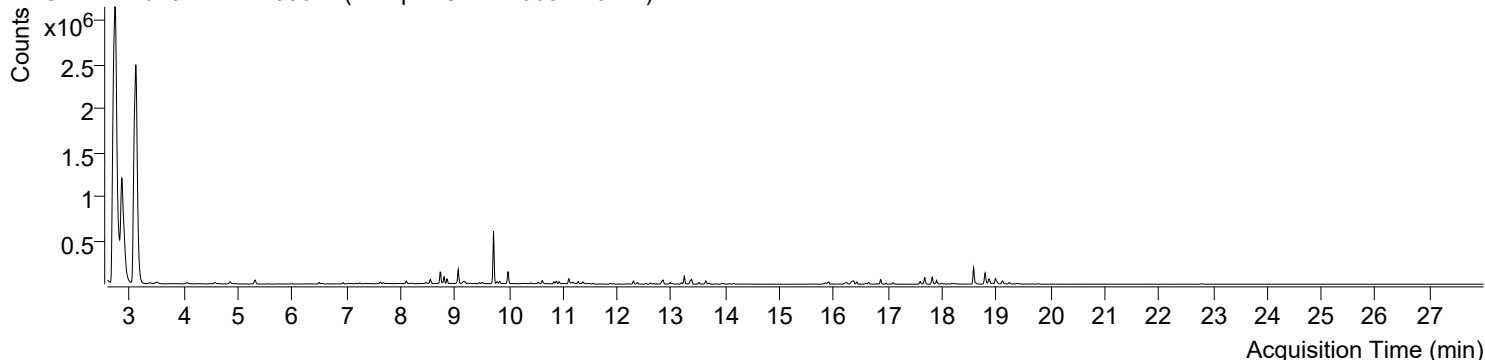


Trusted Answers

| | | | |
|---------------------------|--|-----------------------|-------------------------|
| Batch Data Path File Name | D:\MassHunter\GCMS\1\data\PAHs\220707-PAHs-Sample\QuantResults\220707-PAHs-Quant.batch.bin | | |
| Analysis Time Stamp | 2022-07-09 오전 11:12:52 | Analyst Name | DESKTOP-86B7UPG\5975MS |
| Report Generation Time | 2022-07-09 오전 11:13:20 | Report Generator Name | DESKTOP-86B7UPG\5975MS |
| Calibration Last Update | 2022-07-09 오전 11:04:15 | Batch State | Processed |
| Analyze Quant Version | 10.2 | Report Quant Version | 10.2 |
| Acq. Date-Time | 2022-07-08 오전 4:21:35 | Data File | 220707-PAHs-030.D |
| Type | Sample | Name | Sample-Gas-220604-10DIL |
| Dil. | 1 | Acq. Method File | PAHs 19mix-Method |

Sample Chromatogram

+ TIC SIM 220707-PAHs-030.D (Sample-Gas-220604-10DIL)

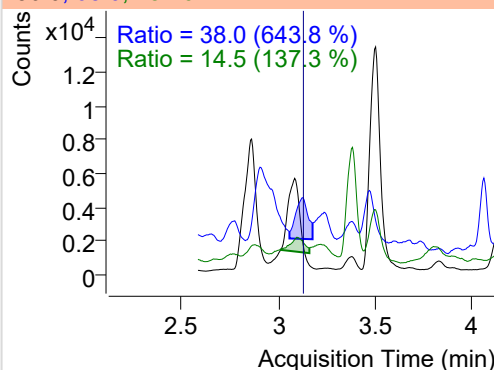
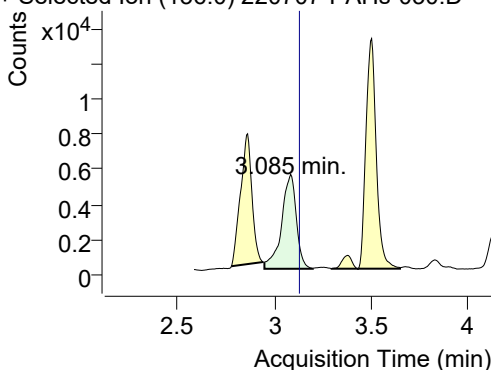


| Name | RT | Transition | Resp. | Height | Final Conc. Units | Ratio |
|-------------------------|--------|------------|---------|------------|-------------------|-------|
| IS-D8-Naphthalene | 3.085 | 136.0 | 28583 | 5408.25 | ND ng/ml | 14.5 |
| Naphthalene | 3.112 | 128.0 | 8809648 | 2001338.82 | ND ng/ml | 12.8 |
| Acenaphthylene | 6.552 | 152.0 | 3063 | 1424.38 | ND ng/ml | 46.1 |
| IS-D10-Acenaphthene | 6.499 | 164.0 | 15331 | 8111.50 | ND ng/ml | 100.0 |
| Acenaphthene | 6.558 | 154.0 | 3845 | 1818.13 | ND ng/ml | 100.7 |
| LSS-D10-Fluorene | 7.627 | 176.0 | 13323 | 8395.56 | ND ng/ml | 91.2 |
| Fluorene | 7.680 | 166.0 | 8256 | 4957.38 | ND ng/ml | 117.0 |
| IS-D10-Phenanthrene | 9.780 | 188.0 | 25197 | 14470.68 | ND ng/ml | 18.4 |
| Phenanthrene | 9.832 | 178.0 | 26174 | 15095.38 | ND ng/ml | 19.0 |
| Anthracene | 9.990 | 178.0 | 63121 | 38528.38 | ND ng/ml | 26.9 |
| Fluoranthene | 12.532 | 202.0 | 7487 | 4526.55 | ND ng/ml | |
| LSS-D10-Pyrene | 12.982 | 212.0 | 19494 | 12295.17 | ND ng/ml | 23.9 |
| Pyrene | 13.014 | 202.0 | 10484 | 5413.56 | ND ng/ml | |
| Benz(a)anthracene | 15.811 | 228.0 | 428 | 171.12 | ND ng/ml | 37.8 |
| IS-D12-Chrysene | 15.844 | 240.0 | 18641 | 9263.83 | ND ng/ml | 18.8 |
| Chrysene | 15.903 | 228.0 | 1783 | 676.28 | ND ng/ml | 31.5 |
| Benzo(b)fluoranthene | 17.989 | 252.0 | 3393 | 1564.00 | ND ng/ml | 12.5 |
| Benzo(k)fluoranthene | 18.245 | 252.0 | 1109 | 520.61 | ND ng/ml | 18.5 |
| SS-D12-Benzo(e)pyrene | 18.609 | 264.0 | 9427 | 8788.90 | ND ng/ml | 28.4 |
| Benzo(e)pyrene | 18.630 | 252.0 | 804 | 442.16 | ND ng/ml | 20.2 |
| Benzo(a)pyrene | 18.794 | 252.0 | 7965 | 3313.32 | ND ng/ml | 12.8 |
| IS-D12-Perylene | 18.872 | 264.0 | 11402 | 13915.61 | ND ng/ml | 27.5 |
| Perylene | 18.929 | 252.0 | 955 | 362.84 | ND ng/ml | 24.3 |
| Indeno(1,2,3-c,d)pyrene | 20.851 | 276.0 | 112 | 35.70 | ND ng/ml | |
| Dibenz(a,h)anthracene | 20.835 | 278.0 | 111 | 24.83 | ND ng/ml | 40.0 |
| Benzo(g,h,i)perylene | 21.141 | 276.0 | 86 | 24.75 | ND ng/ml | |
| Coronene | 23.462 | 300.0 | 58 | 15.75 | ND ng/ml | |

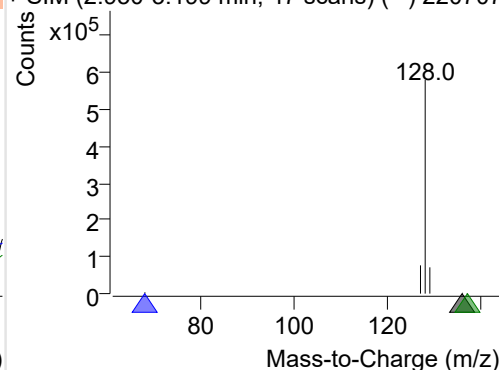
IS-D8-Naphthalene

+ Selected Ion (136.0) 220707-PAHs-030.D

136.0, 68.0, 137.0

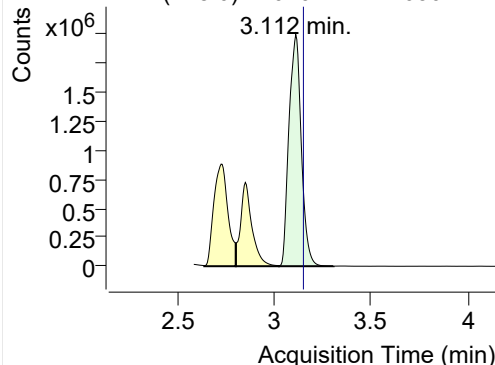


+ SIM (2.950-3.199 min, 47 scans) (**) 220707

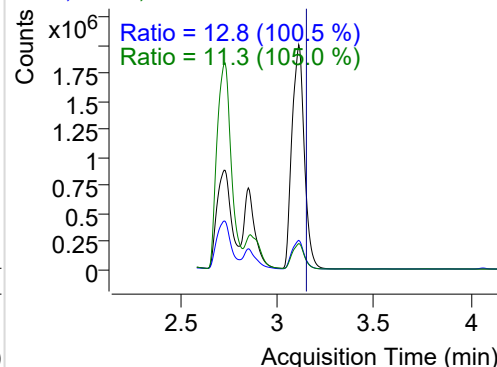


Naphthalene

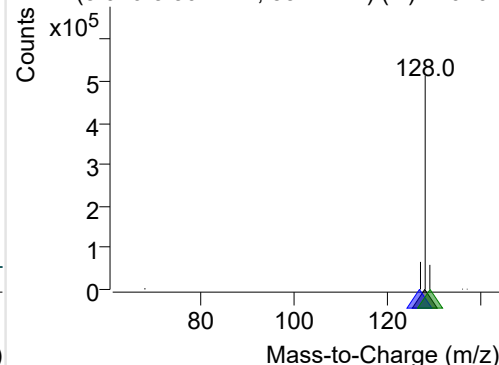
+ Selected Ion (128.0) 220707-PAHs-030.D



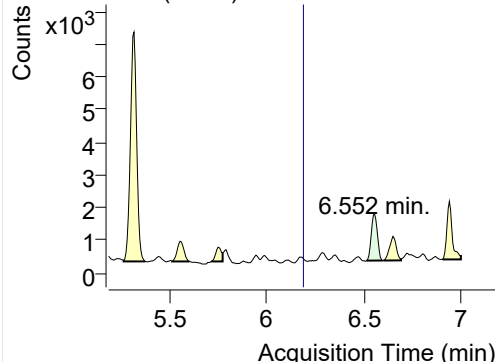
128.0, 127.0, 129.0



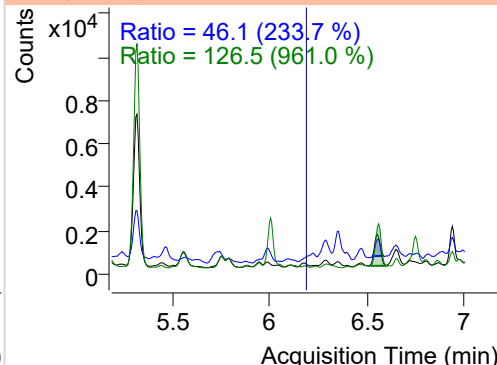
+ SIM (3.026-3.307 min, 53 scans) (**) 220707

**Acenaphthylene**

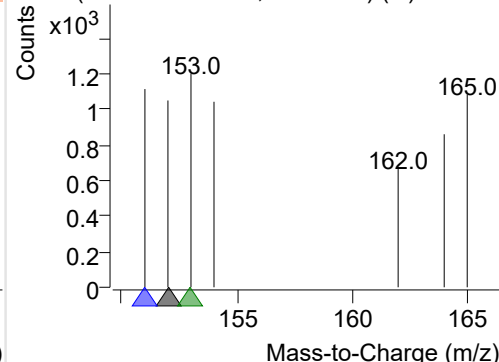
+ Selected Ion (152.0) 220707-PAHs-030.D



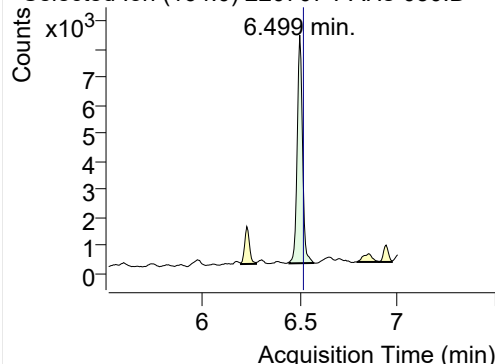
152.0, 151.0, 153.0



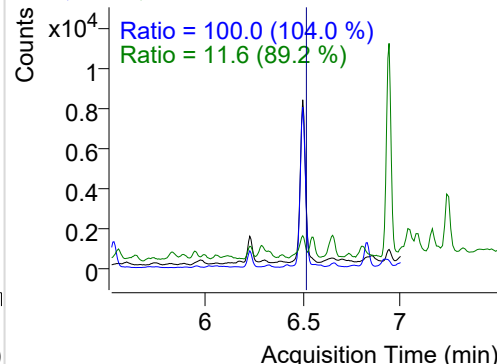
+ SIM (6.511-6.592 min, 13 scans) (**) 220707

**IS-D10-Acenaphthene**

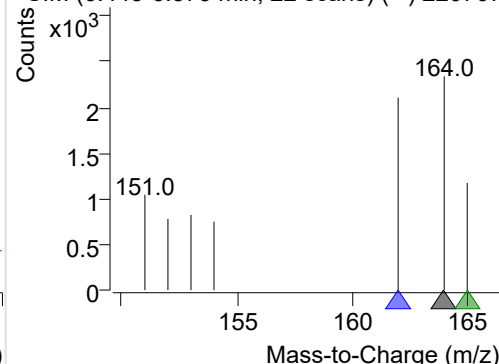
+ Selected Ion (164.0) 220707-PAHs-030.D



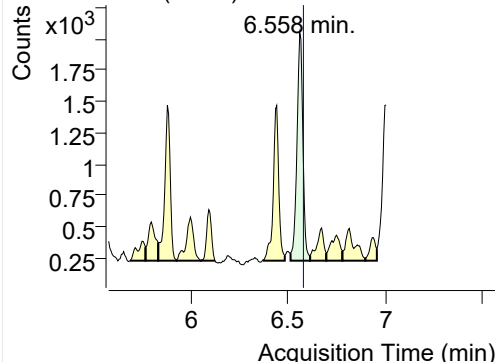
164.0, 162.0, 165.0



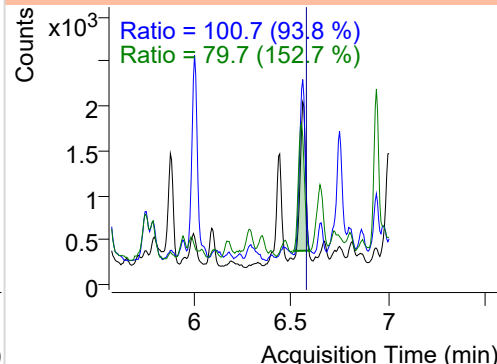
+ SIM (6.445-6.573 min, 22 scans) (**) 220707

**Acenaphthene**

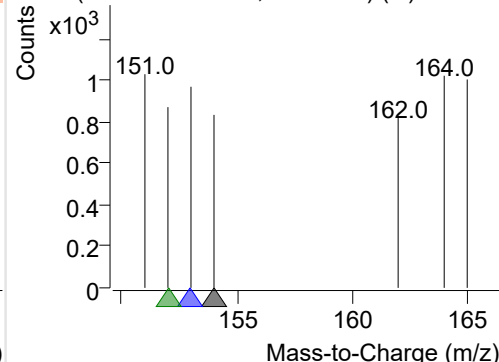
+ Selected Ion (154.0) 220707-PAHs-030.D



154.0, 153.0, 152.0

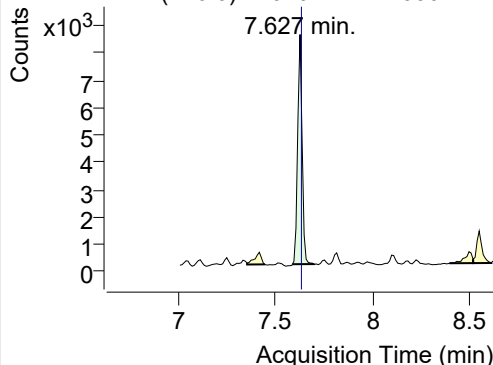


+ SIM (6.510-6.611 min, 18 scans) (**) 220707

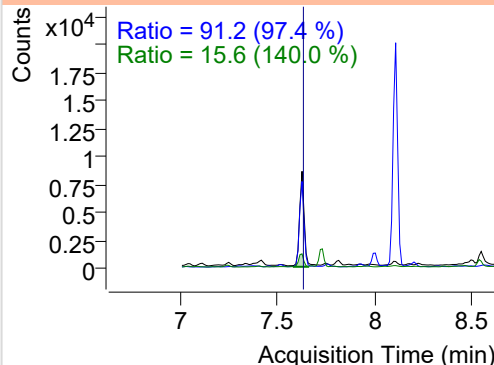


LSS-D10-Fluorene

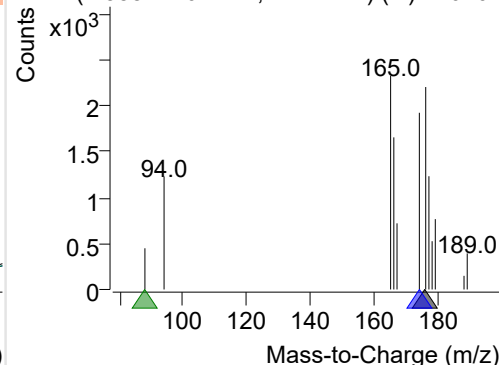
+ Selected Ion (176.0) 220707-PAHs-030.D



176.0, 174.0, 88.0

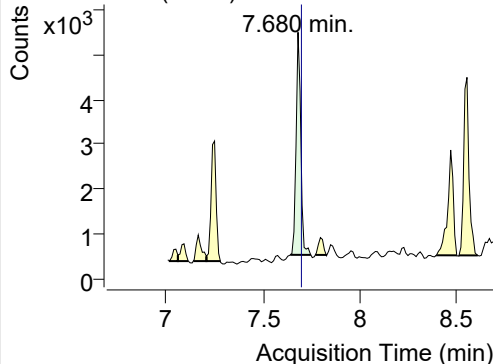


+ SIM (7.588-7.701 min, 11 scans) (**) 220707

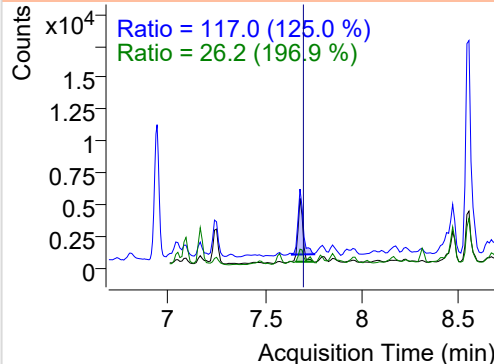


Fluorene

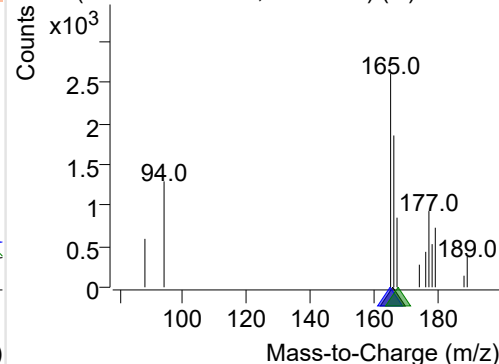
+ Selected Ion (166.0) 220707-PAHs-030.D



166.0, 165.0, 167.0

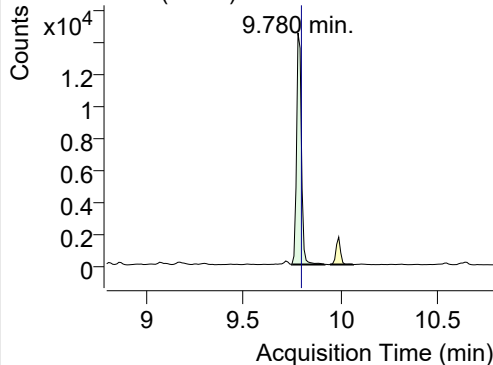


+ SIM (7.640-7.746 min, 10 scans) (**) 220707

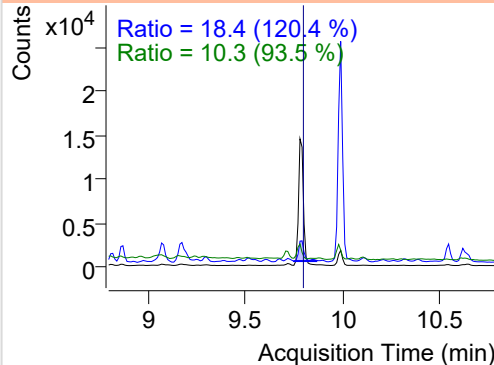


IS-D10-Phenanthrene

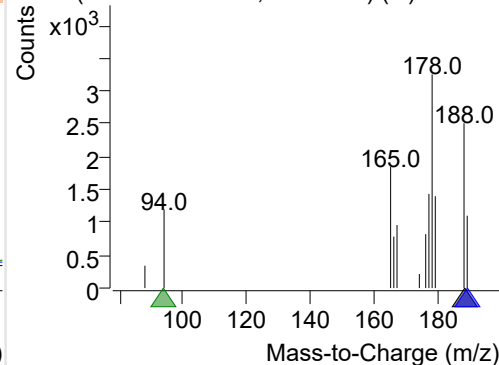
+ Selected Ion (188.0) 220707-PAHs-030.D



188.0, 189.0, 94.0

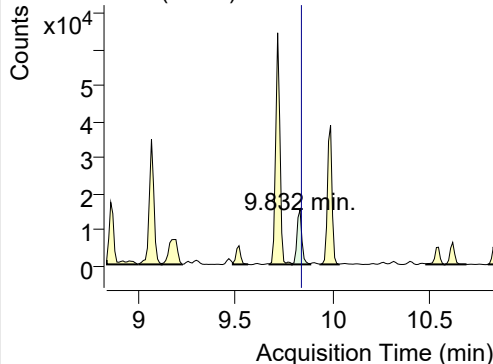


+ SIM (9.748-9.916 min, 17 scans) (**) 220707

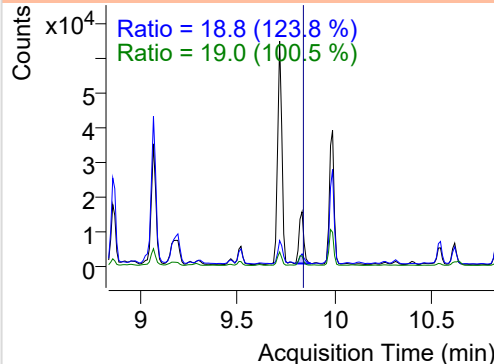


Phenanthrene

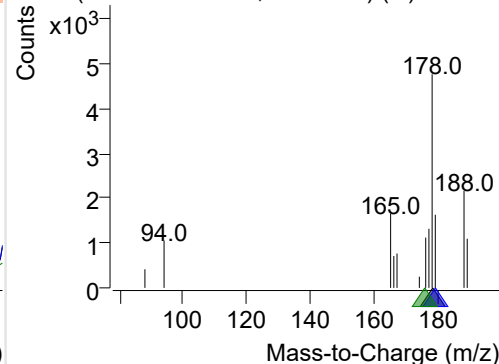
+ Selected Ion (178.0) 220707-PAHs-030.D



178.0, 179.0, 176.0

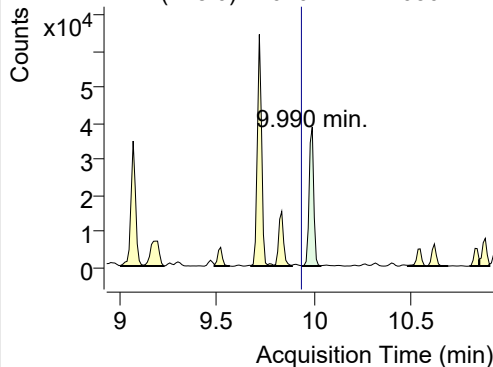


+ SIM (9.790-9.885 min, 10 scans) (**) 220707

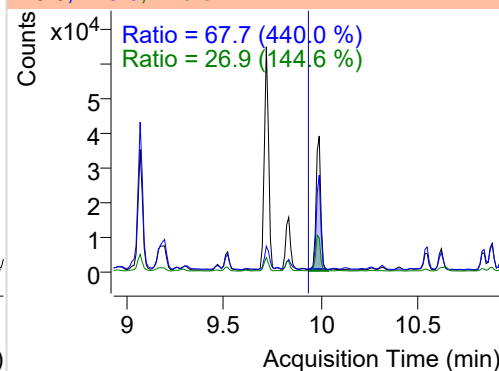


Anthracene

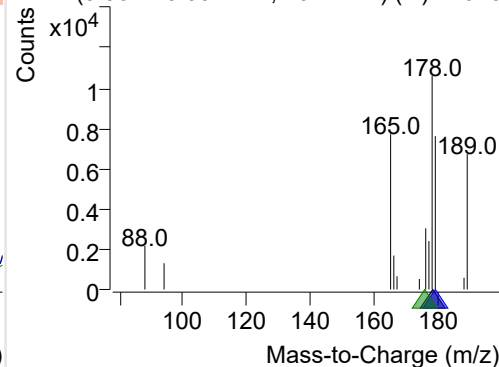
+ Selected Ion (178.0) 220707-PAHs-030.D



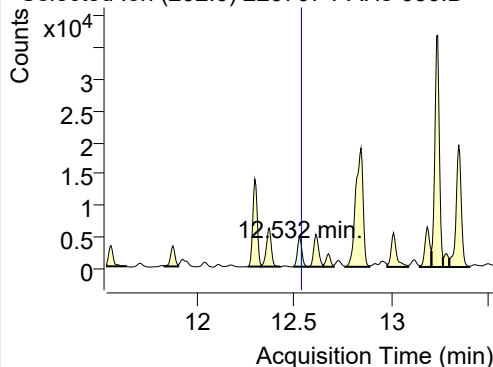
178.0, 179.0, 176.0



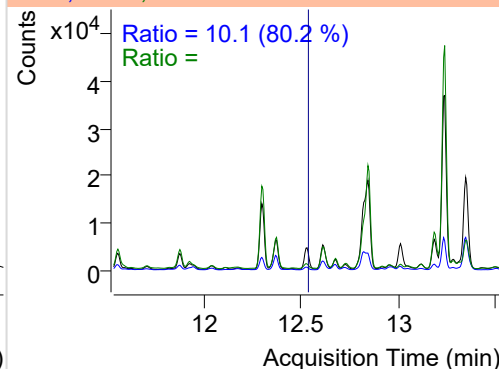
+ SIM (9.937-10.032 min, 10 scans) (**) 22070

**Fluoranthene**

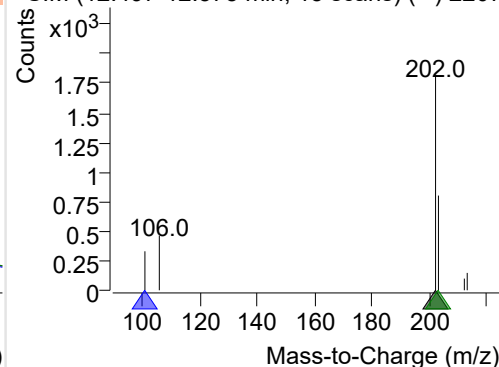
+ Selected Ion (202.0) 220707-PAHs-030.D



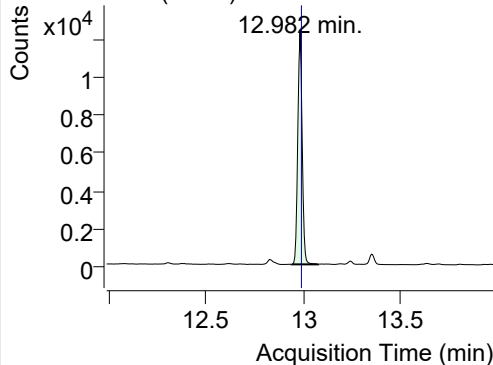
202.0, 101.0, 203.0



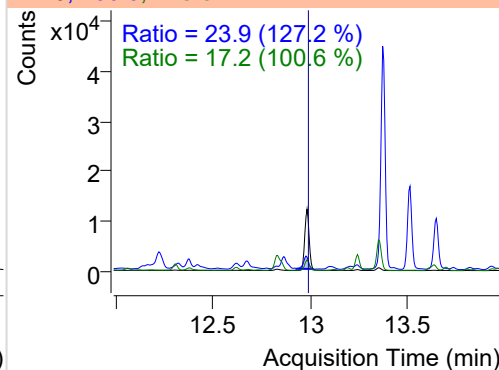
+ SIM (12.497-12.575 min, 15 scans) (**) 2207

**LSS-D10-Pyrene**

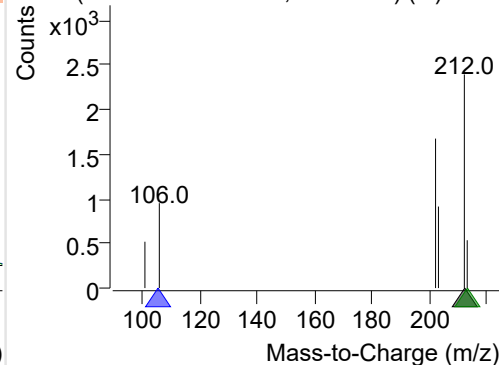
+ Selected Ion (212.0) 220707-PAHs-030.D



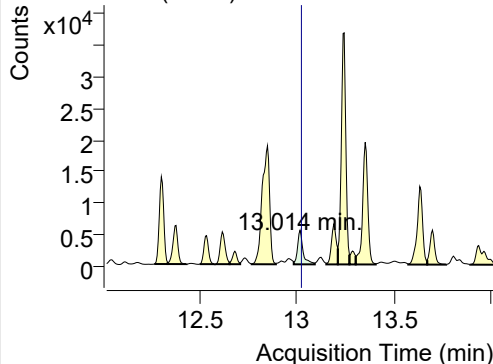
212.0, 106.0, 213.0



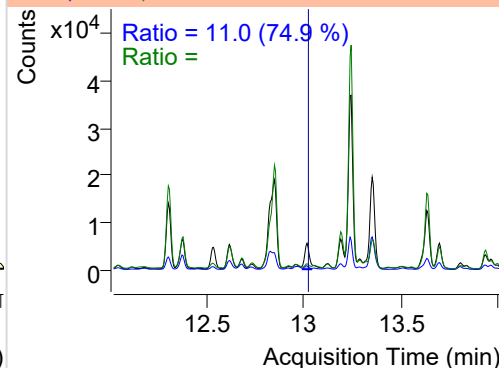
+ SIM (12.938-13.074 min, 26 scans) (**) 2207

**Pyrene**

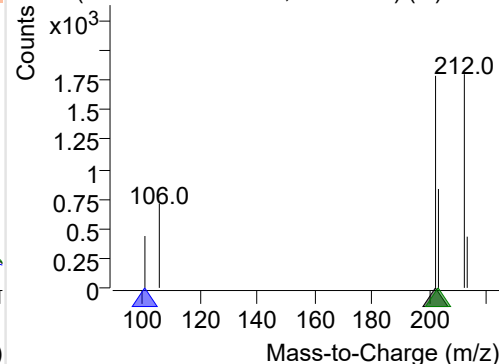
+ Selected Ion (202.0) 220707-PAHs-030.D



202.0, 101.0, 203.0



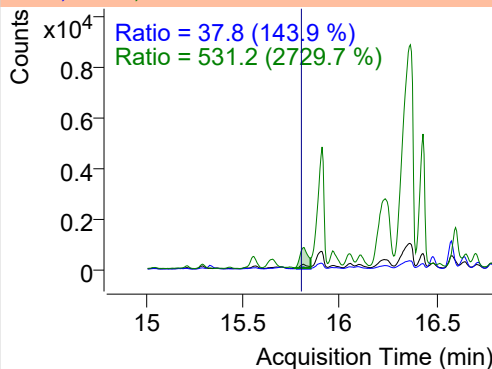
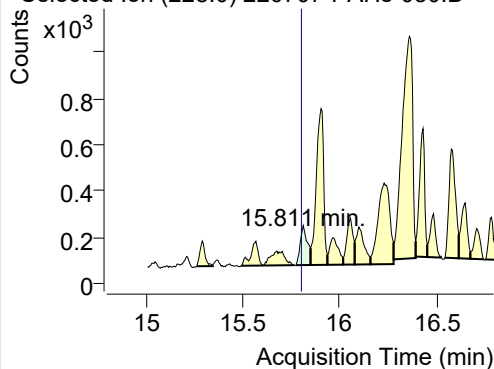
+ SIM (12.982-13.090 min, 21 scans) (**) 2207



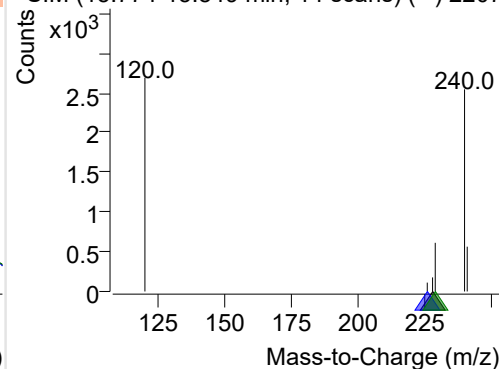
Benz(a)anthracene

+ Selected Ion (228.0) 220707-PAHs-030.D

228.0, 226.0, 229.0

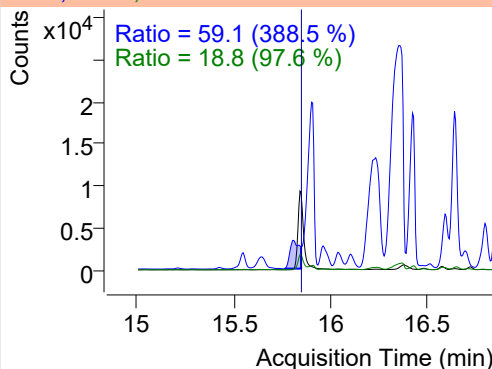
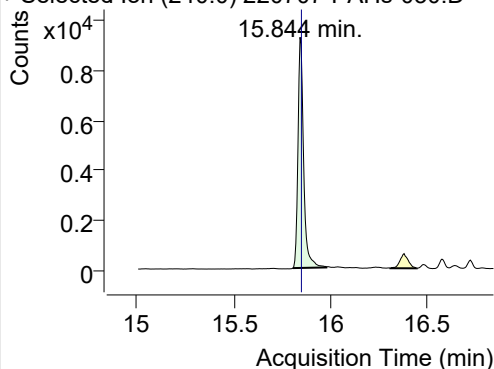


+ SIM (15.774-15.849 min, 14 scans) (**) 2207

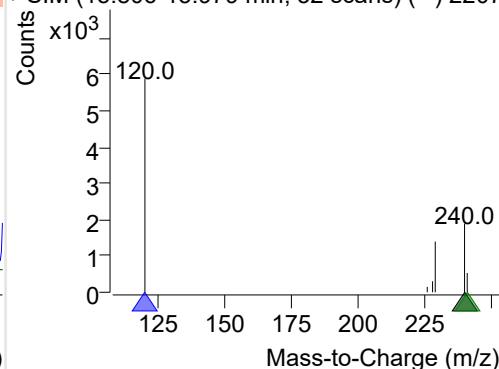
**IS-D12-Chrysene**

+ Selected Ion (240.0) 220707-PAHs-030.D

240.0, 120.0, 241.0

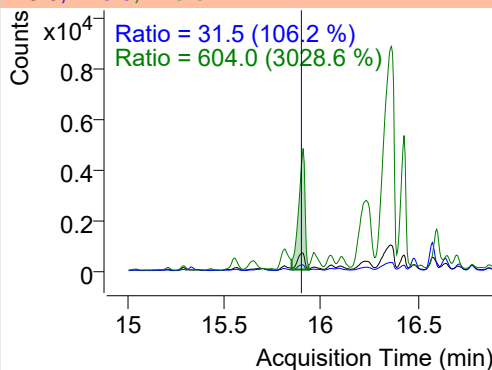
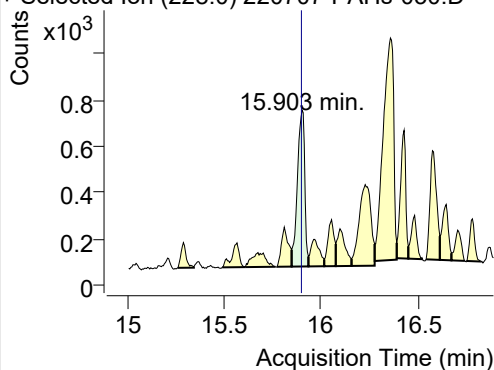


+ SIM (15.806-15.979 min, 32 scans) (**) 2207

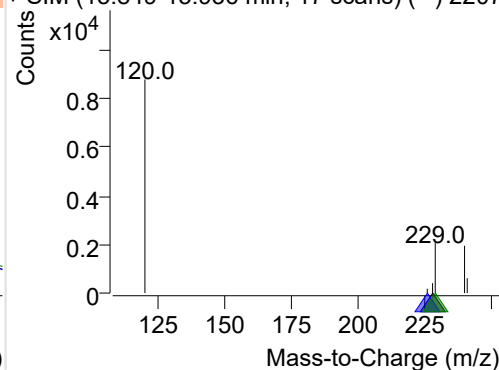
**Chrysene**

+ Selected Ion (228.0) 220707-PAHs-030.D

228.0, 226.0, 229.0

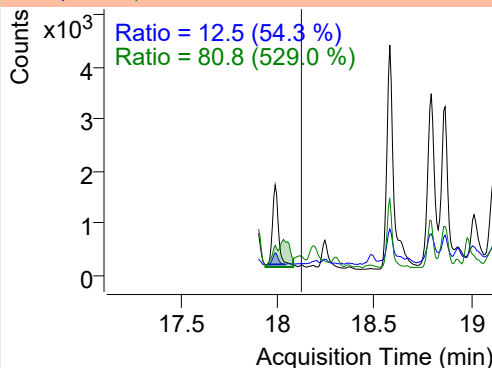
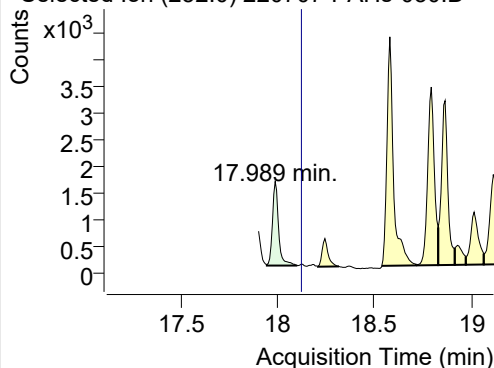


+ SIM (15.849-15.936 min, 17 scans) (**) 2207

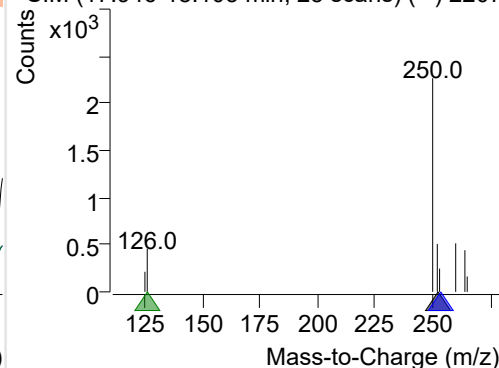
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 220707-PAHs-030.D

252.0, 253.0, 126.0



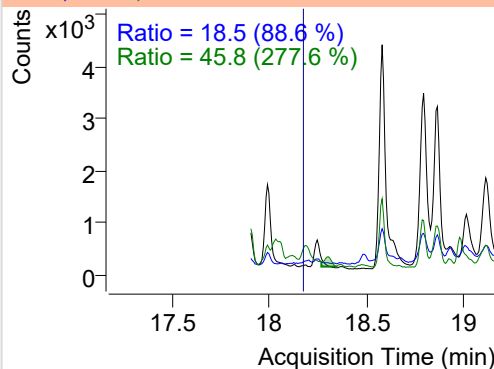
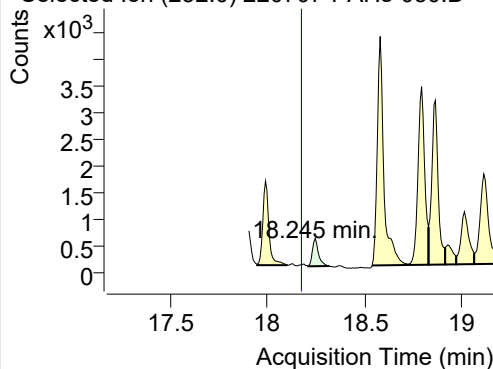
+ SIM (17.946-18.103 min, 23 scans) (**) 2207



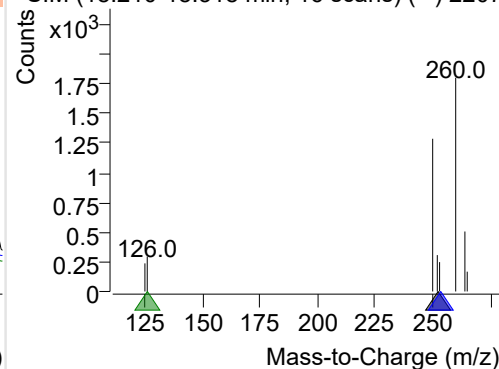
Benzo(k)fluoranthene

+ Selected Ion (252.0) 220707-PAHs-030.D

252.0, 253.0, 126.0

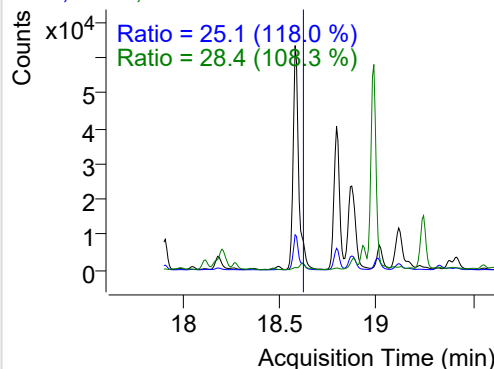
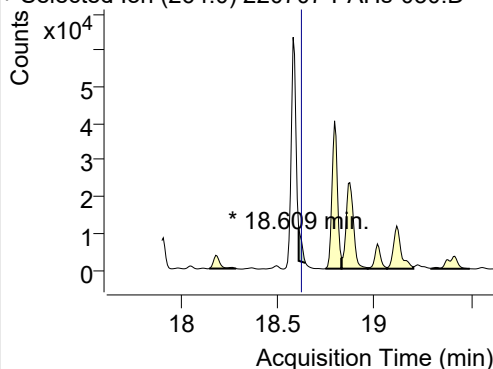


+ SIM (18.210-18.318 min, 16 scans) (**) 2207

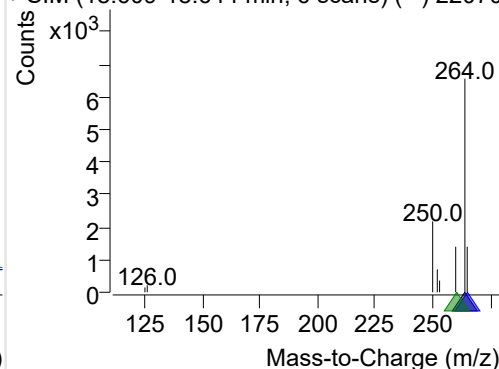
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 220707-PAHs-030.D

264.0, 265.0, 260.0

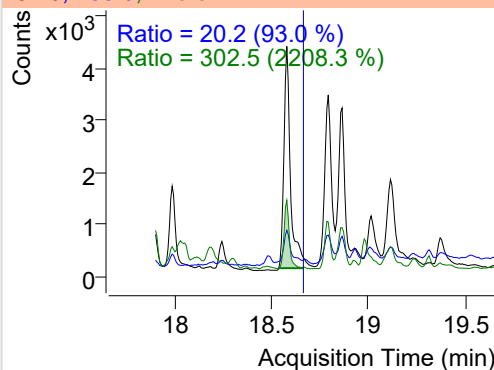
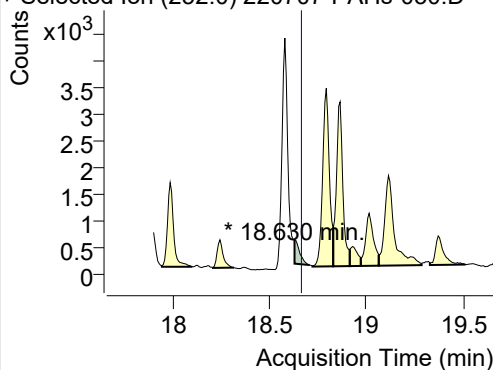


+ SIM (18.609-18.644 min, 6 scans) (**) 22070

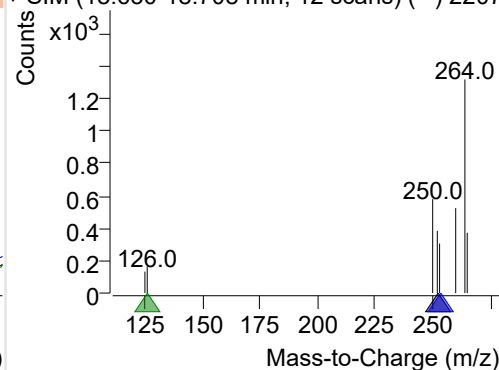
**Benzo(e)pyrene**

+ Selected Ion (252.0) 220707-PAHs-030.D

252.0, 253.0, 126.0

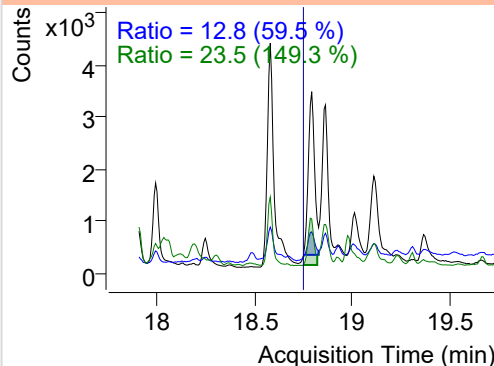
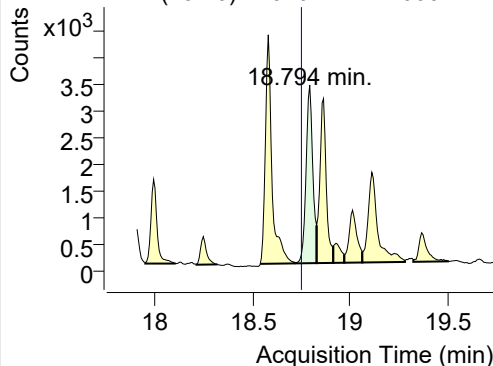


+ SIM (18.630-18.708 min, 12 scans) (**) 2207

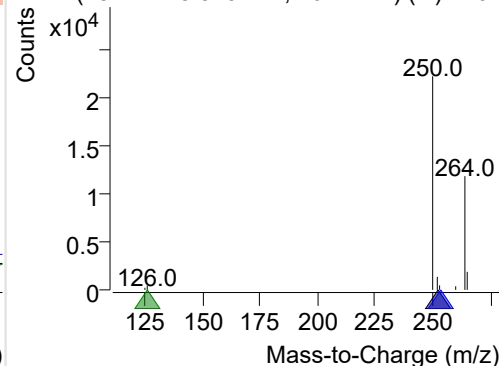
**Benzo(a)pyrene**

+ Selected Ion (252.0) 220707-PAHs-030.D

252.0, 253.0, 126.0

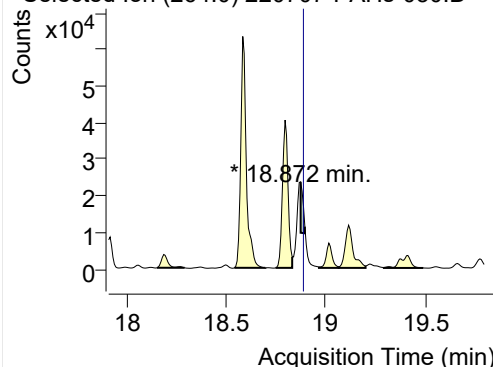


+ SIM (18.722-18.829 min, 16 scans) (**) 2207

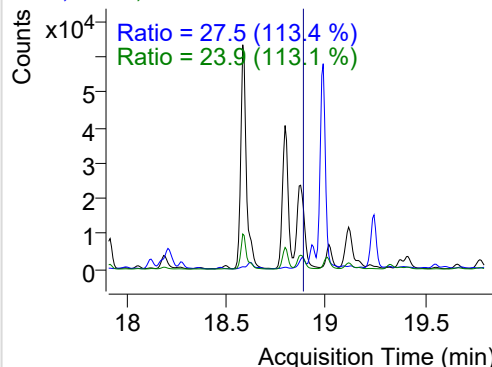


IS-D12-Perylene

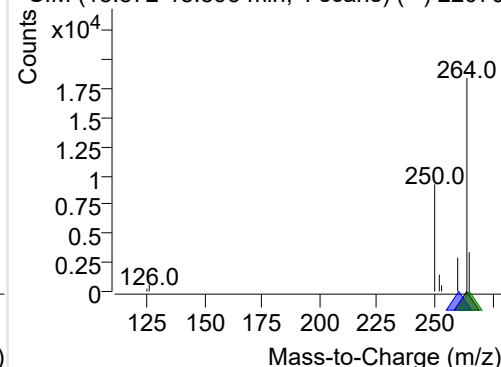
+ Selected Ion (264.0) 220707-PAHs-030.D



264.0, 260.0, 265.0

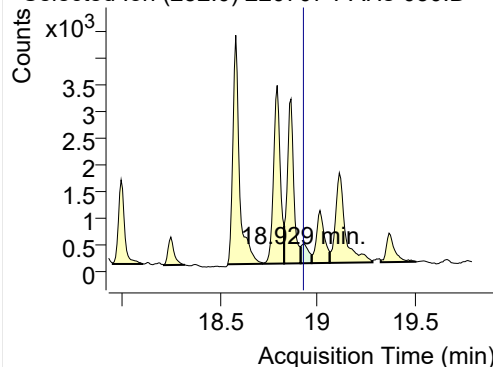


+ SIM (18.872-18.893 min, 4 scans) (**) 22070

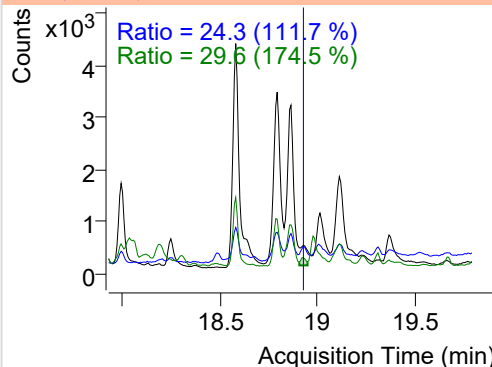


Perylene

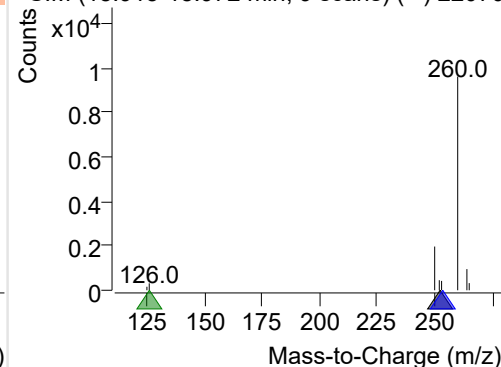
+ Selected Ion (252.0) 220707-PAHs-030.D



252.0, 253.0, 126.0

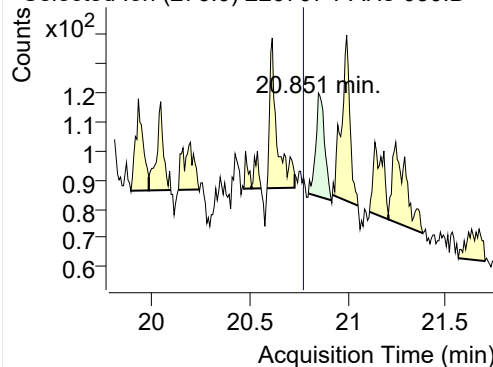


+ SIM (18.915-18.972 min, 9 scans) (**) 22070

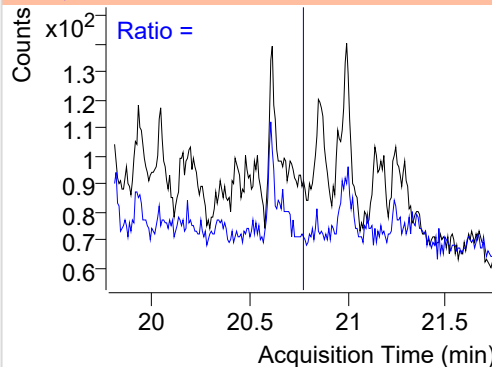


Indeno(1,2,3-c,d)pyrene

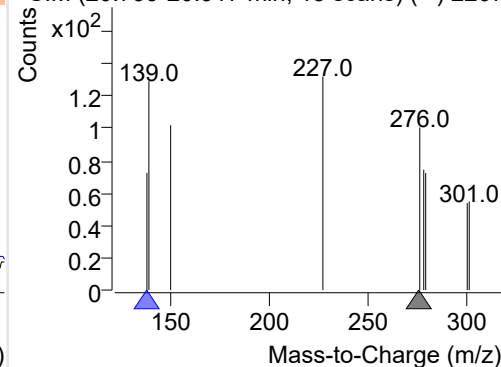
+ Selected Ion (276.0) 220707-PAHs-030.D



276.0, 138.0

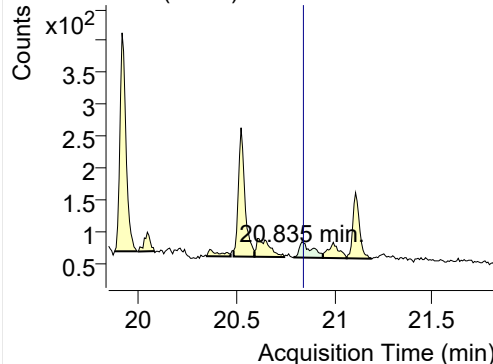


+ SIM (20.799-20.917 min, 15 scans) (**) 2207

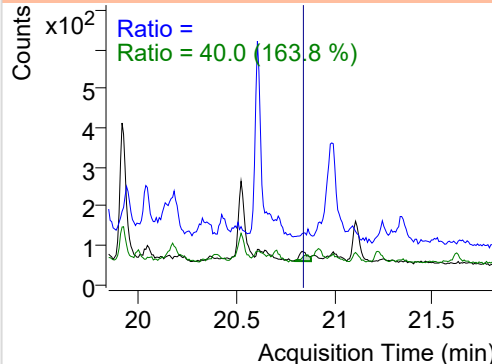


Dibenz(a,h)anthracene

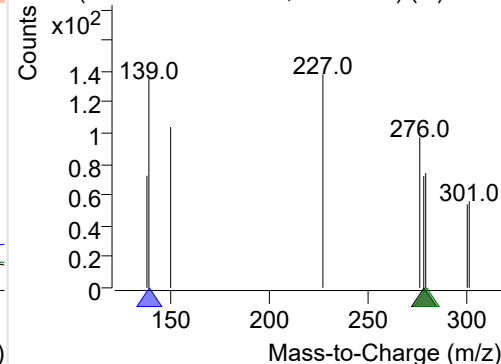
+ Selected Ion (278.0) 220707-PAHs-030.D



278.0, 139.0, 279.0



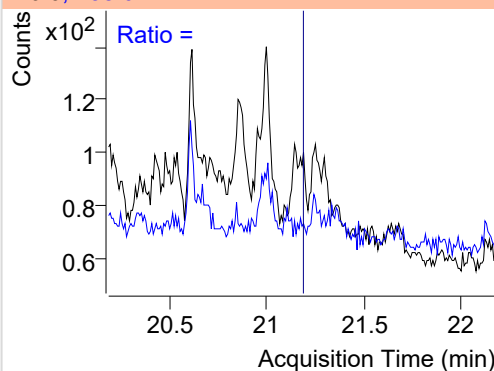
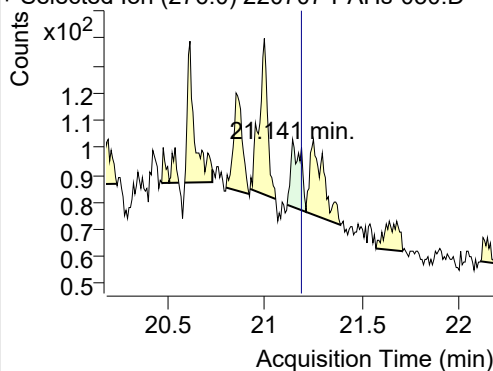
+ SIM (20.791-20.942 min, 20 scans) (**) 2207



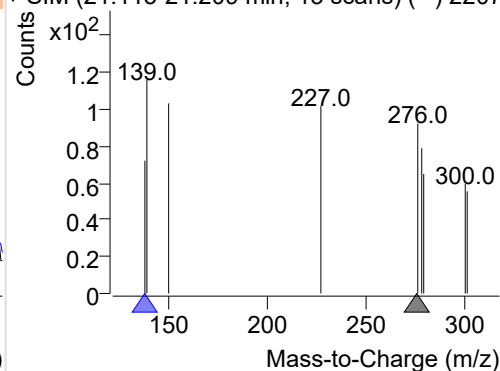
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 220707-PAHs-030.D

276.0, 138.0

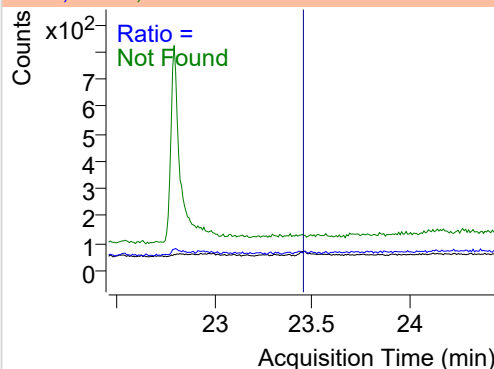
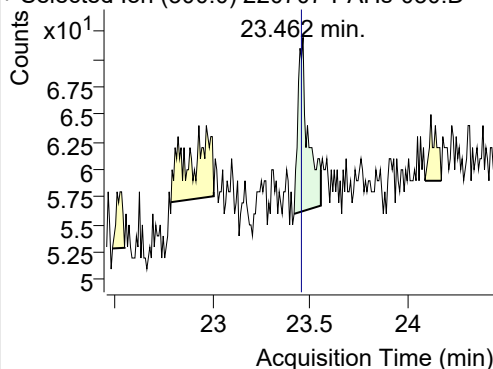


+ SIM (21.113-21.209 min, 13 scans) (**) 2207

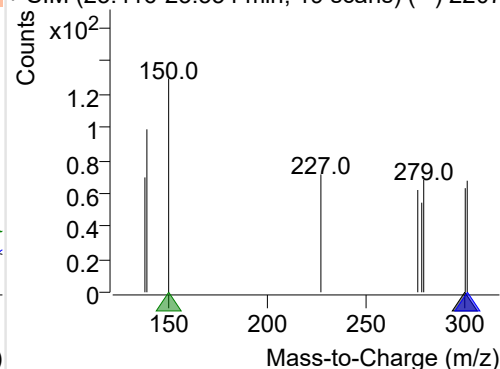
**Coronene**

+ Selected Ion (300.0) 220707-PAHs-030.D

300.0, 301.0, 150.0



+ SIM (23.416-23.554 min, 19 scans) (**) 2207



Quantitative Analysis Sample Based Report

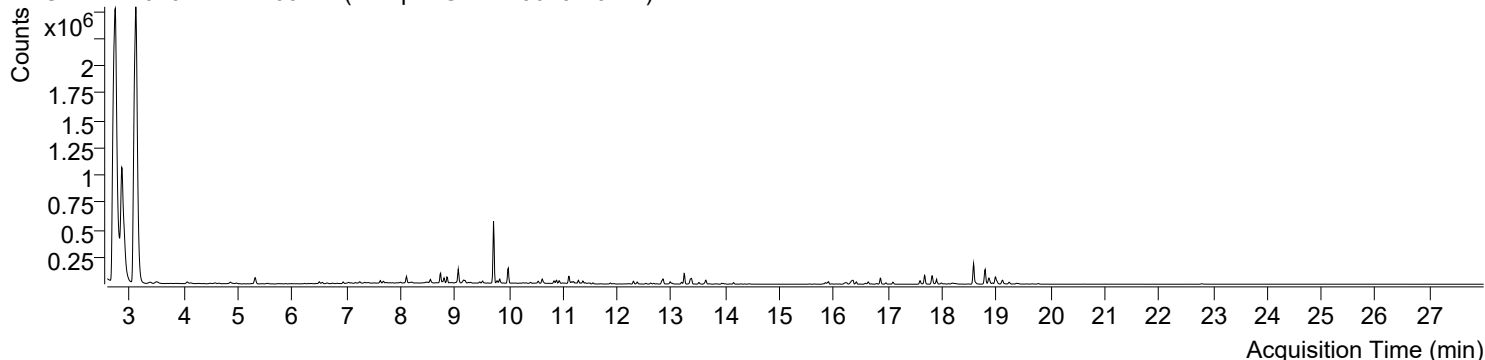


Trusted Answers

| | | | |
|---------------------------|--|-----------------------|-------------------------|
| Batch Data Path File Name | D:\MassHunter\GCMS\1\data\PAHs\220707-PAHs-Sample\QuantResults\220707-PAHs-Quant.batch.bin | | |
| Analysis Time Stamp | 2022-07-09 오전 11:12:52 | Analyst Name | DESKTOP-86B7UPG\5975MS |
| Report Generation Time | 2022-07-09 오전 11:13:20 | Report Generator Name | DESKTOP-86B7UPG\5975MS |
| Calibration Last Update | 2022-07-09 오전 11:04:15 | Batch State | Processed |
| Analyze Quant Version | 10.2 | Report Quant Version | 10.2 |
| Acq. Date-Time | 2022-07-08 오전 4:52:35 | Data File | 220707-PAHs-031.D |
| Type | Sample | Name | Sample-Gas-220610-10DIL |
| Dil. | 1 | Acq. Method File | PAHs 19mix-Method |

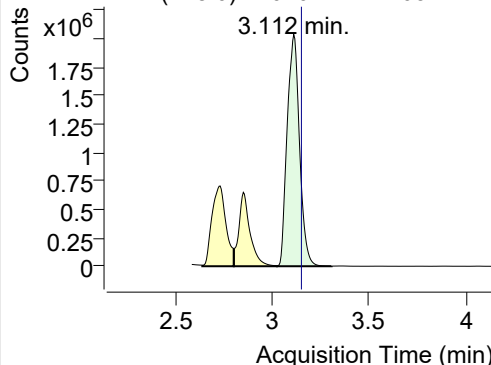
Sample Chromatogram

+ TIC SIM 220707-PAHs-031.D (Sample-Gas-220610-10DIL)

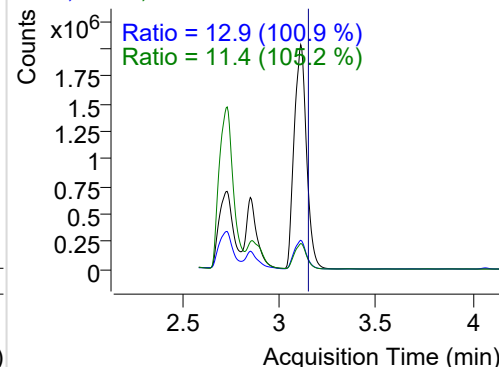


Naphthalene

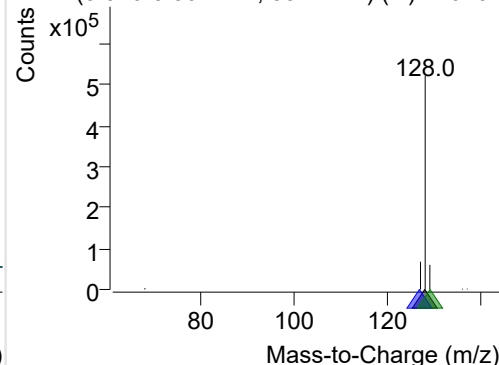
+ Selected Ion (128.0) 220707-PAHs-031.D



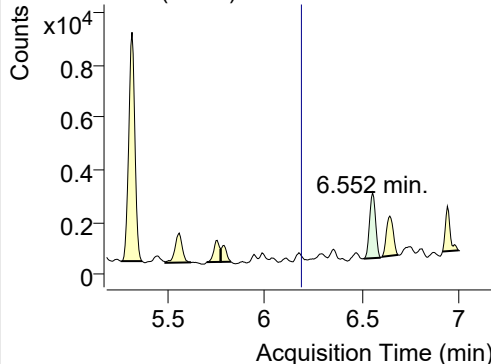
128.0, 127.0, 129.0



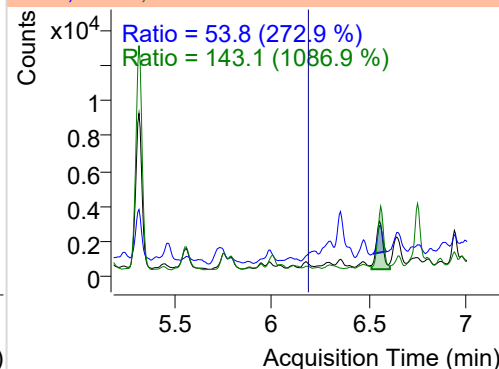
+ SIM (3.026-3.307 min, 53 scans) (**) 220707

**Acenaphthylene**

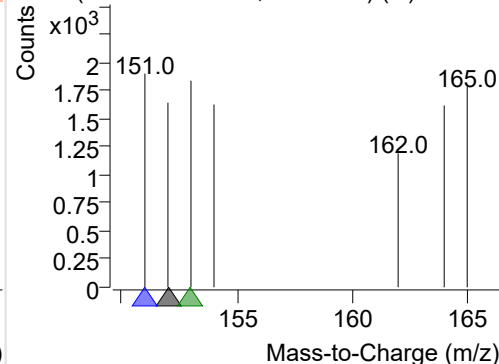
+ Selected Ion (152.0) 220707-PAHs-031.D



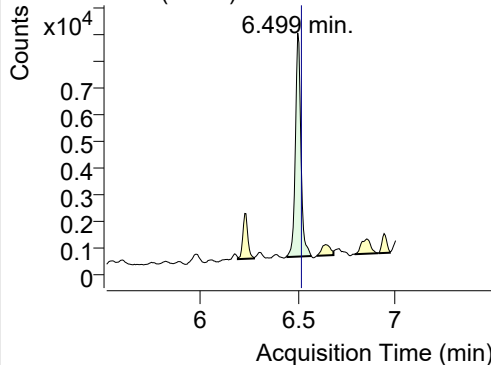
152.0, 151.0, 153.0



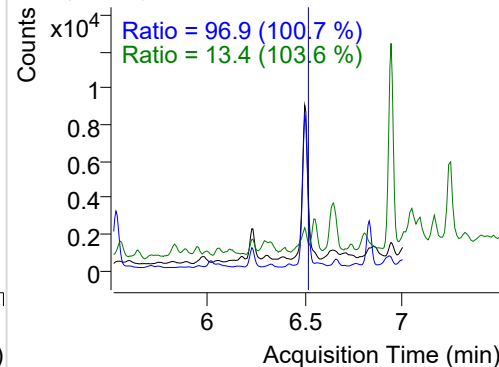
+ SIM (6.510-6.593 min, 15 scans) (**) 220707

**IS-D10-Acenaphthene**

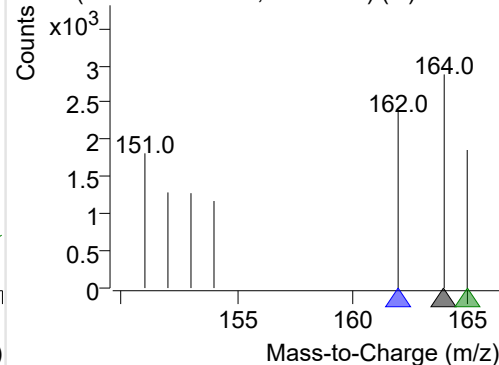
+ Selected Ion (164.0) 220707-PAHs-031.D



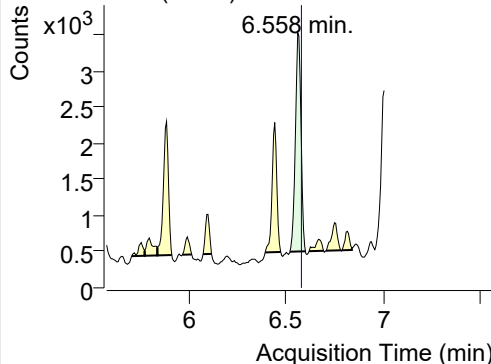
164.0, 162.0, 165.0



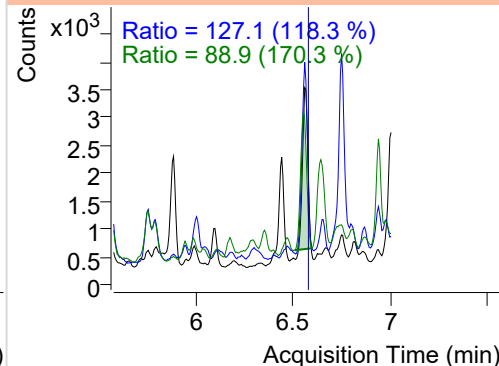
+ SIM (6.445-6.568 min, 21 scans) (**) 220707

**Acenaphthene**

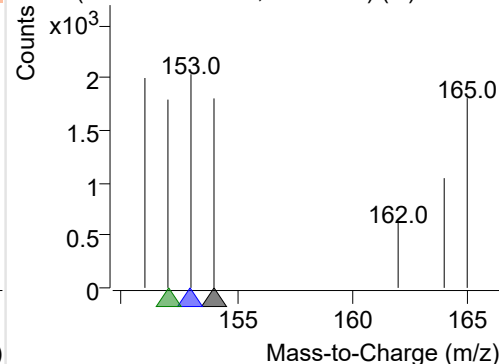
+ Selected Ion (154.0) 220707-PAHs-031.D



154.0, 153.0, 152.0

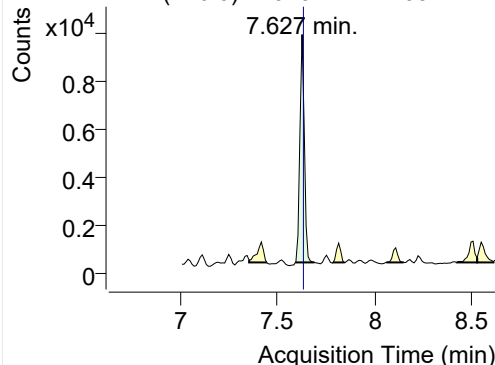


+ SIM (6.517-6.597 min, 13 scans) (**) 220707

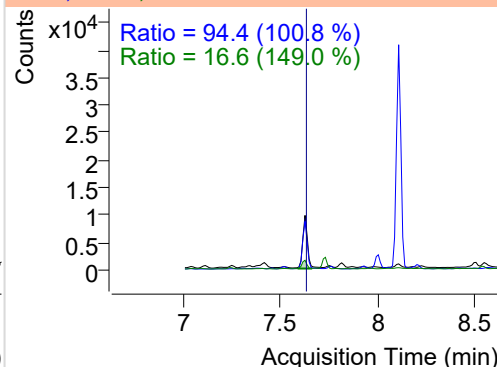


LSS-D10-Fluorene

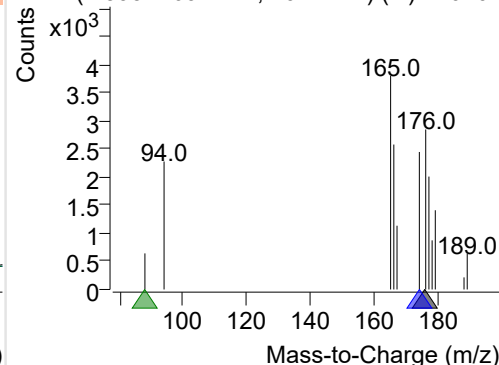
+ Selected Ion (176.0) 220707-PAHs-031.D



176.0, 174.0, 88.0

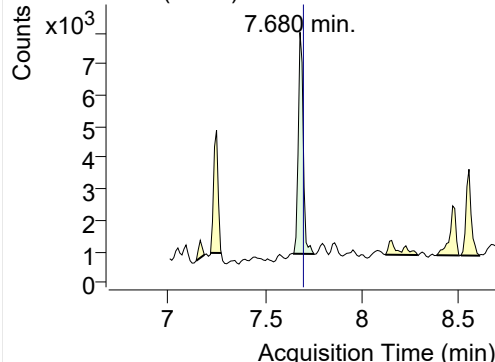


+ SIM (7.593-7.691 min, 10 scans) (**) 220707

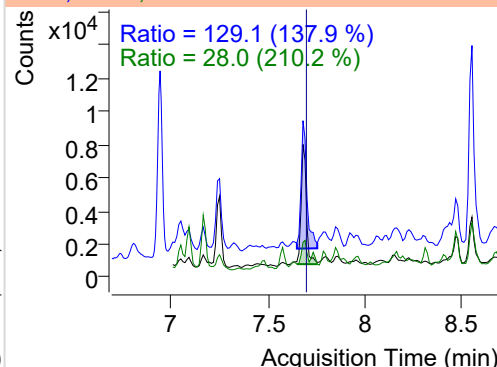


Fluorene

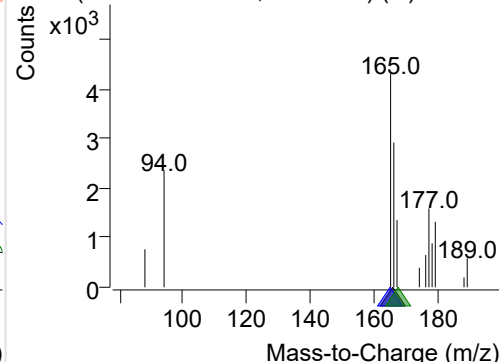
+ Selected Ion (166.0) 220707-PAHs-031.D



166.0, 165.0, 167.0

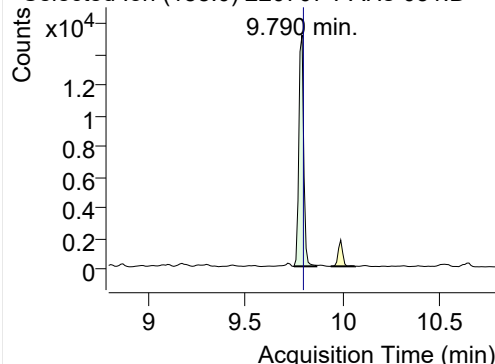


+ SIM (7.648-7.752 min, 10 scans) (**) 220707

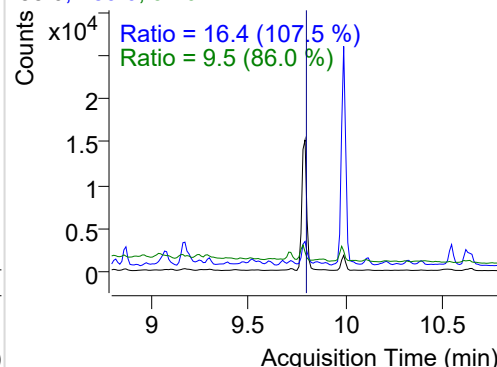


IS-D10-Phenanthrene

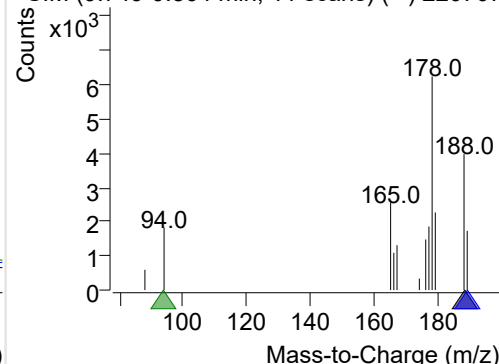
+ Selected Ion (188.0) 220707-PAHs-031.D



188.0, 189.0, 94.0

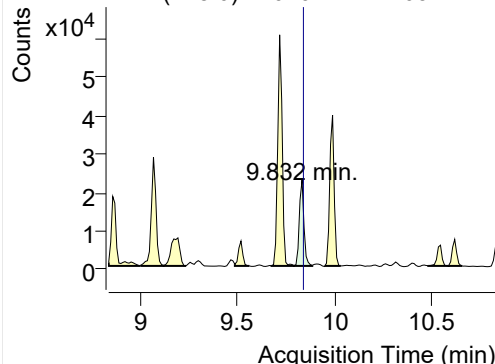


+ SIM (9.749-9.864 min, 11 scans) (**) 220707

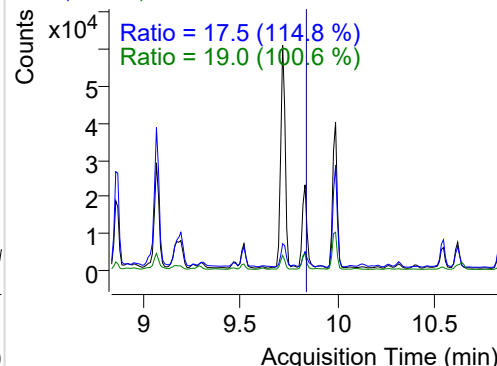


Phenanthrene

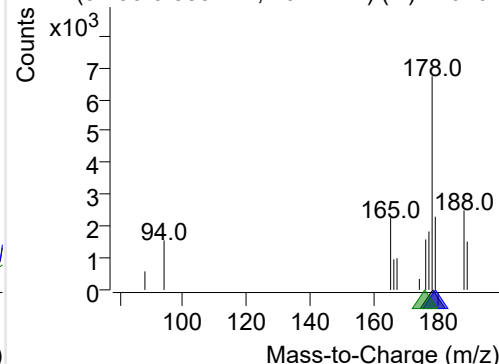
+ Selected Ion (178.0) 220707-PAHs-031.D



178.0, 179.0, 176.0

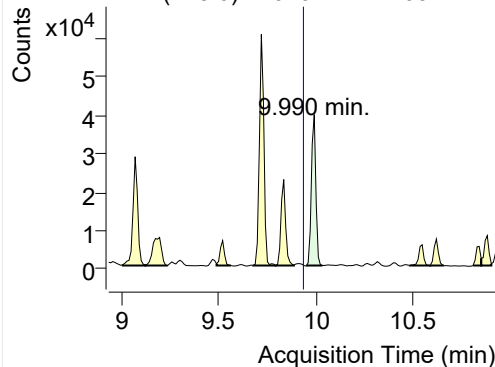


+ SIM (9.790-9.885 min, 10 scans) (**) 220707

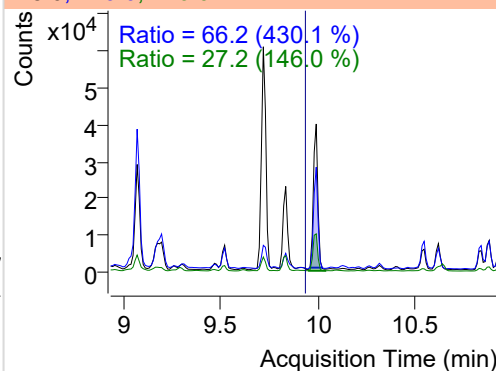


Anthracene

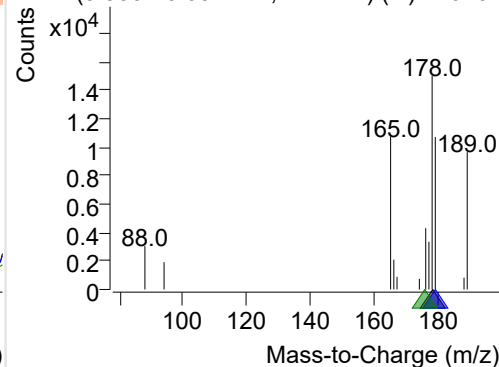
+ Selected Ion (178.0) 220707-PAHs-031.D



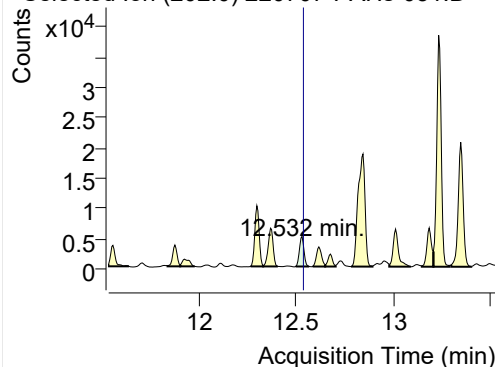
178.0, 179.0, 176.0



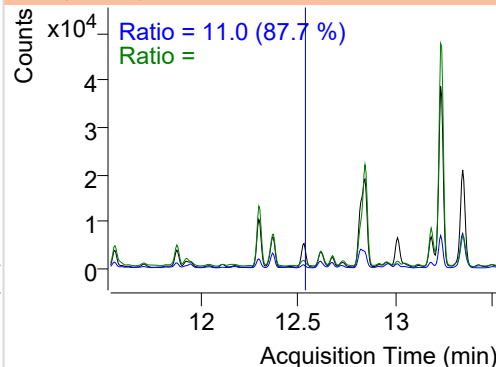
+ SIM (9.950-10.032 min, 7 scans) (**) 220707

**Fluoranthene**

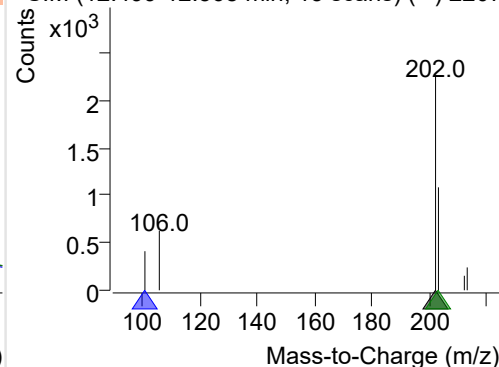
+ Selected Ion (202.0) 220707-PAHs-031.D



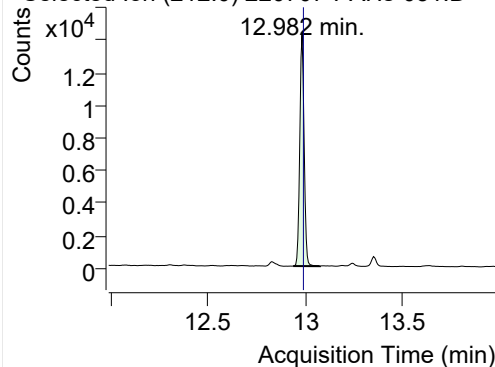
202.0, 101.0, 203.0



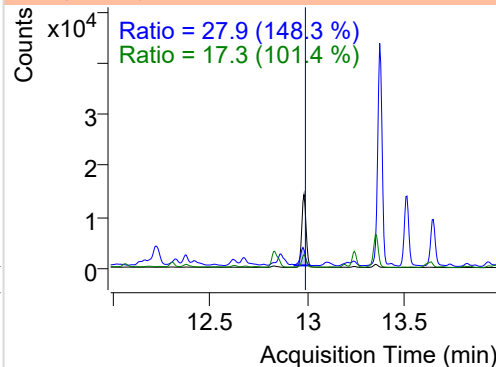
+ SIM (12.499-12.568 min, 13 scans) (**) 2207

**LSS-D10-Pyrene**

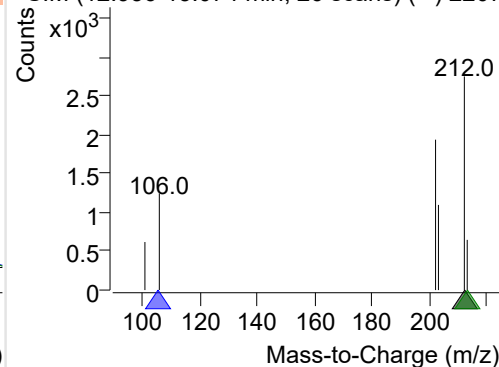
+ Selected Ion (212.0) 220707-PAHs-031.D



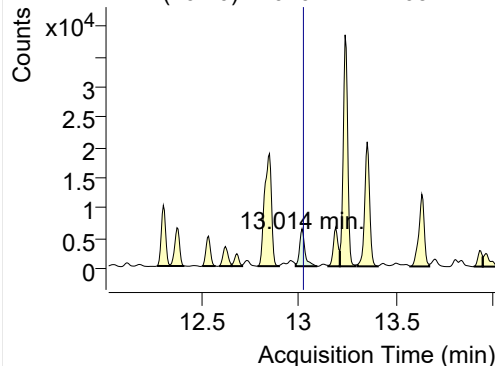
212.0, 106.0, 213.0



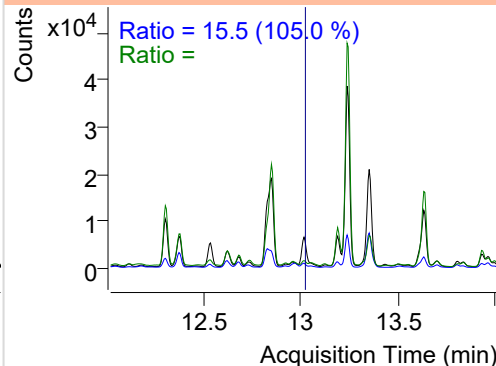
+ SIM (12.936-13.074 min, 26 scans) (**) 2207

**Pyrene**

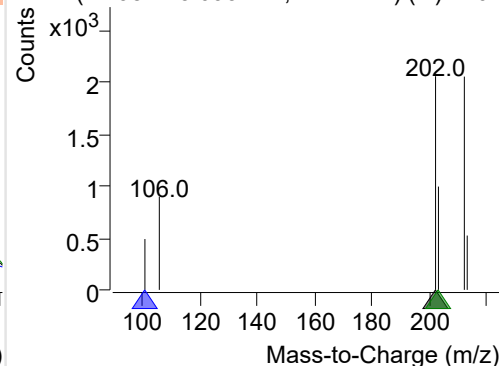
+ Selected Ion (202.0) 220707-PAHs-031.D



202.0, 101.0, 203.0



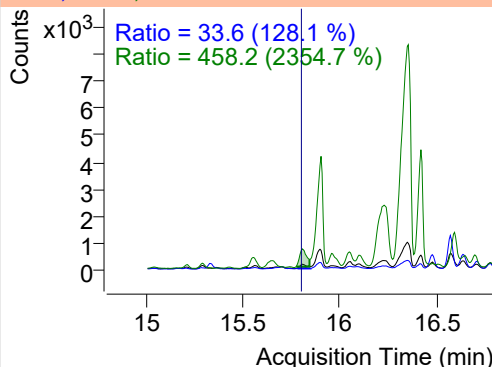
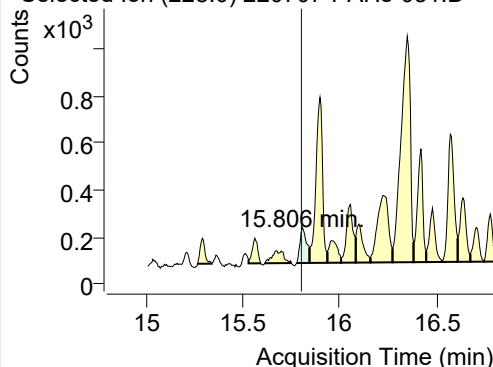
+ SIM (12.982-13.093 min, 21 scans) (**) 2207



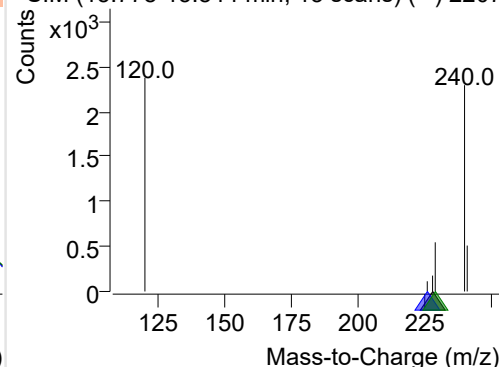
Benz(a)anthracene

+ Selected Ion (228.0) 220707-PAHs-031.D

228.0, 226.0, 229.0

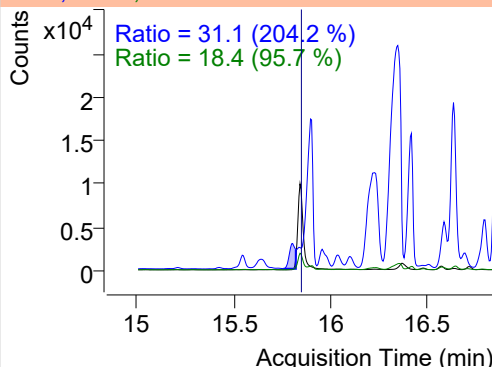
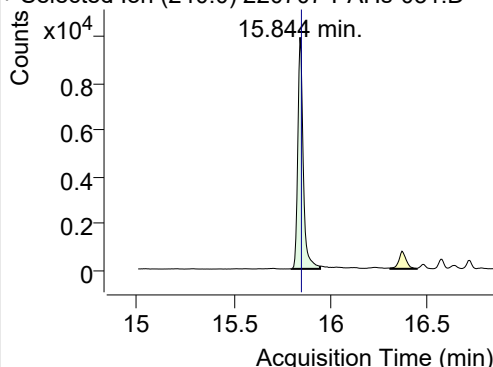


+ SIM (15.778-15.844 min, 13 scans) (**) 2207

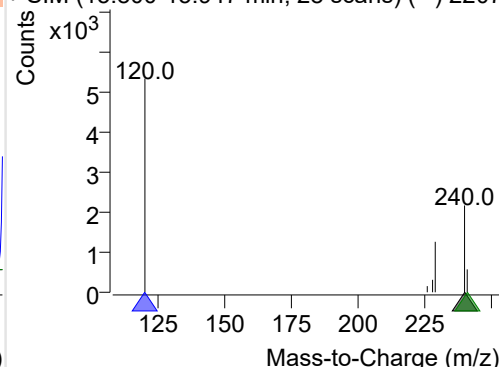
**IS-D12-Chrysene**

+ Selected Ion (240.0) 220707-PAHs-031.D

240.0, 120.0, 241.0

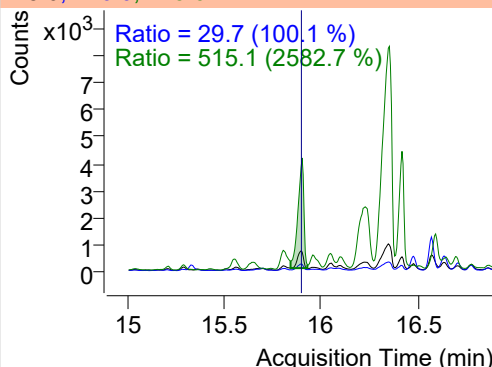
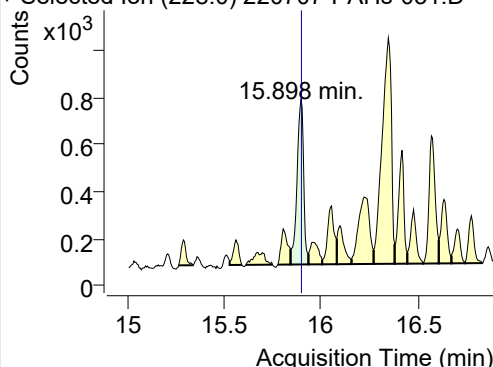


+ SIM (15.800-15.947 min, 28 scans) (**) 2207

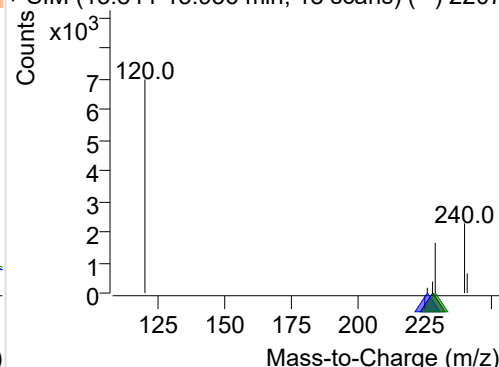
**Chrysene**

+ Selected Ion (228.0) 220707-PAHs-031.D

228.0, 226.0, 229.0

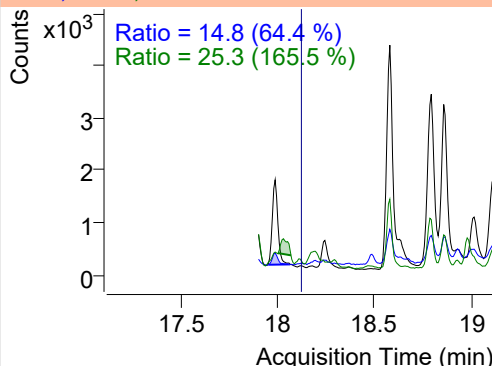
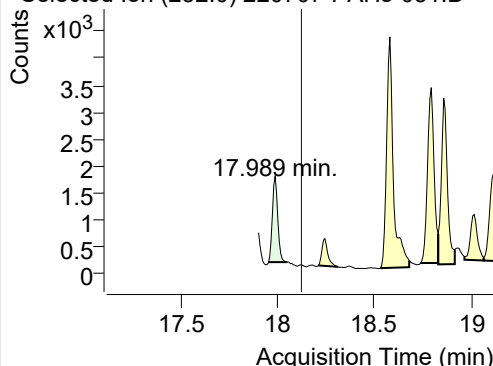


+ SIM (15.844-15.936 min, 18 scans) (**) 2207

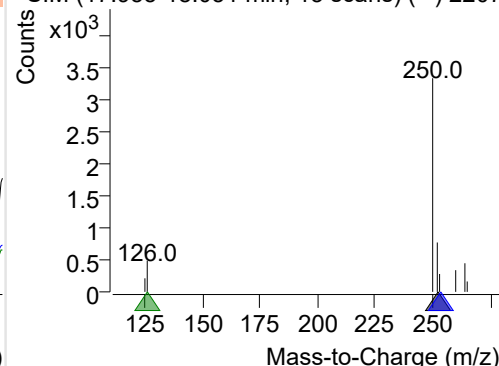
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 220707-PAHs-031.D

252.0, 253.0, 126.0



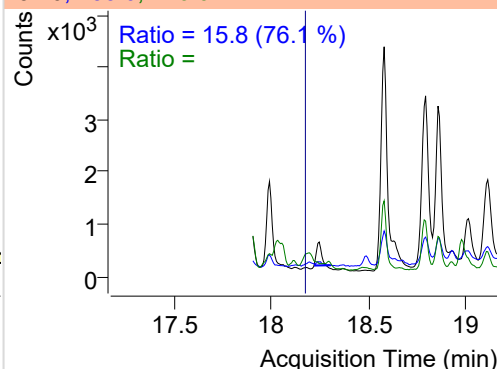
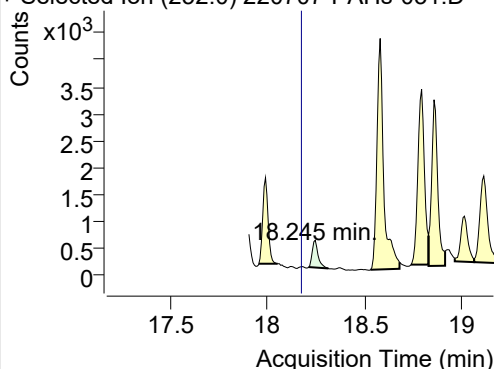
+ SIM (17.955-18.051 min, 13 scans) (**) 2207



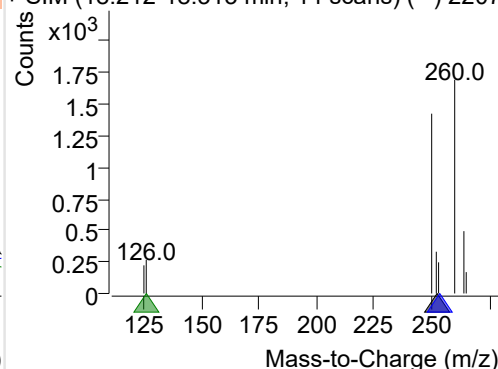
Benzo(k)fluoranthene

+ Selected Ion (252.0) 220707-PAHs-031.D

252.0, 253.0, 126.0

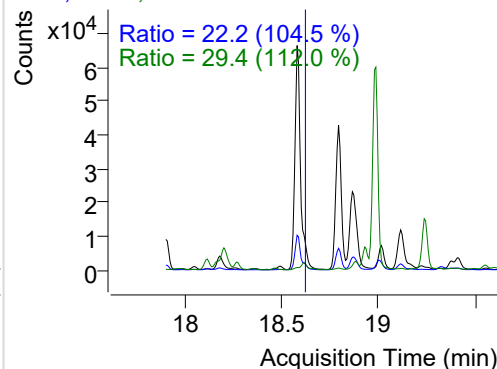
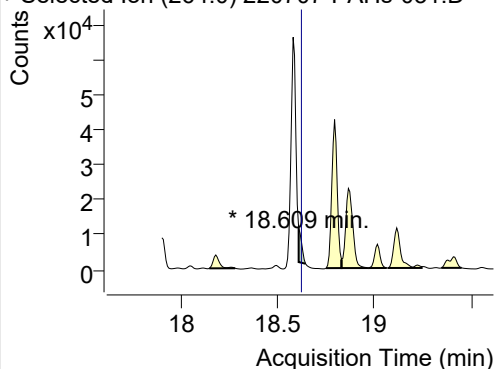


+ SIM (18.212-18.313 min, 14 scans) (**) 2207

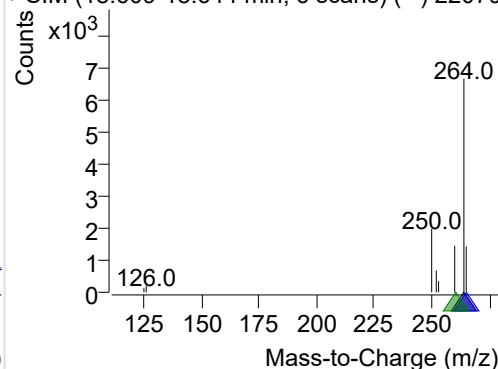
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 220707-PAHs-031.D

264.0, 265.0, 260.0

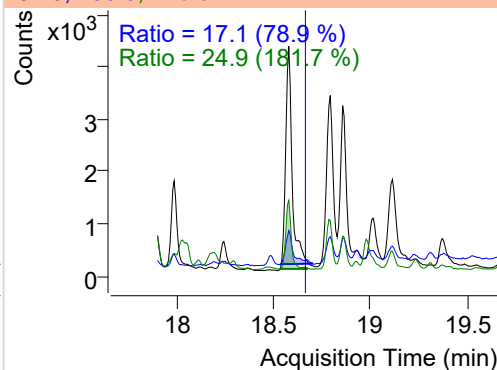
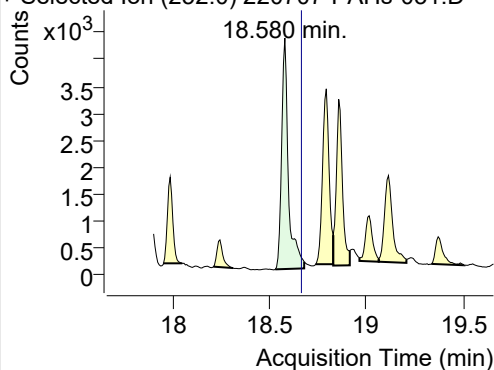


+ SIM (18.609-18.644 min, 6 scans) (**) 22070

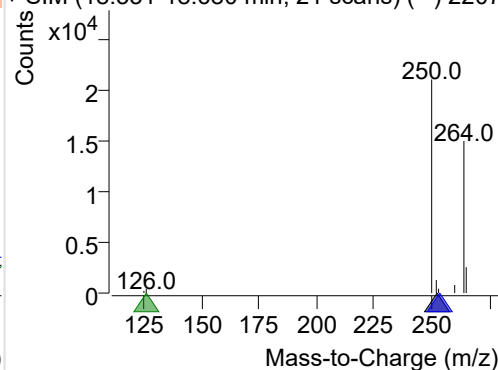
**Benzo(e)pyrene**

+ Selected Ion (252.0) 220707-PAHs-031.D

252.0, 253.0, 126.0

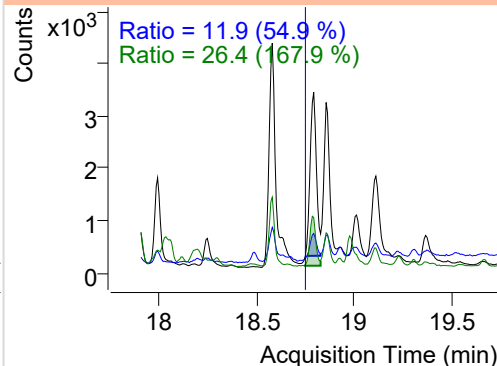
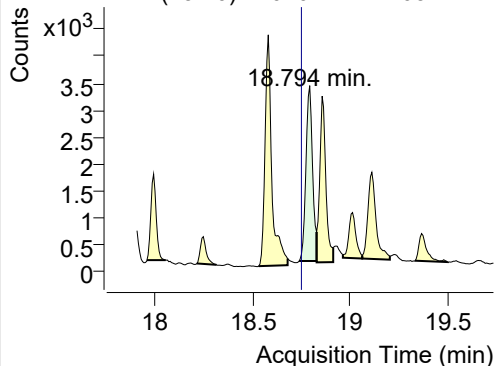


+ SIM (18.531-18.680 min, 21 scans) (**) 2207

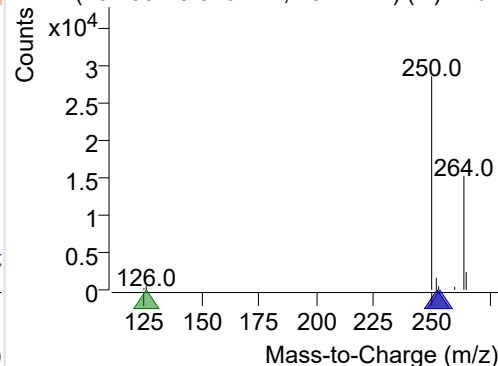
**Benzo(a)pyrene**

+ Selected Ion (252.0) 220707-PAHs-031.D

252.0, 253.0, 126.0

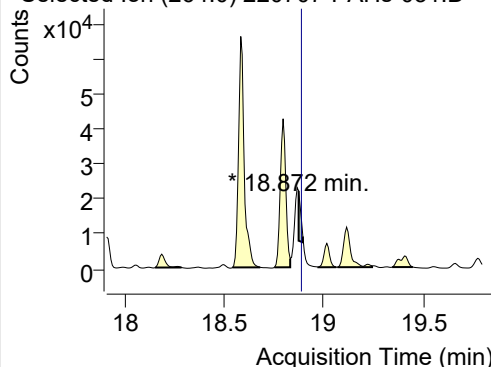


+ SIM (18.739-18.829 min, 13 scans) (**) 2207

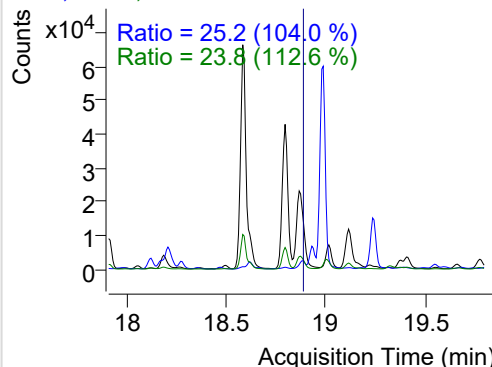


IS-D12-Perylene

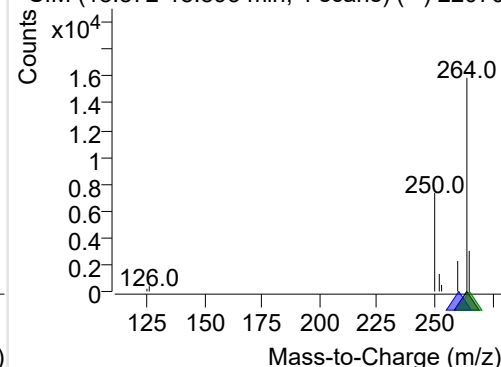
+ Selected Ion (264.0) 220707-PAHs-031.D



264.0, 260.0, 265.0

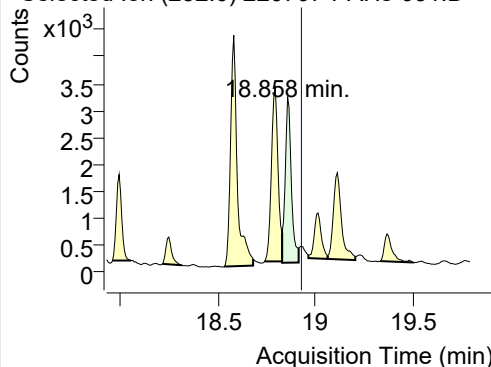


+ SIM (18.872-18.893 min, 4 scans) (**) 22070

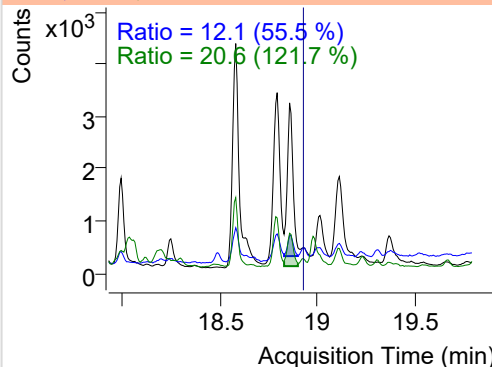


Perylene

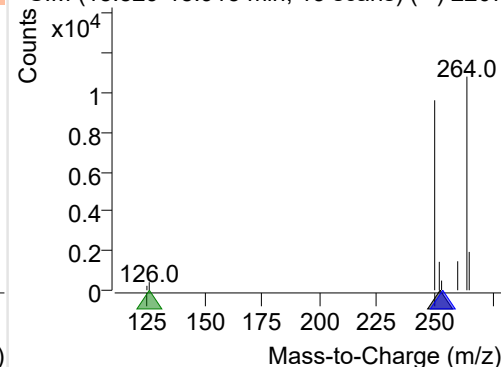
+ Selected Ion (252.0) 220707-PAHs-031.D



252.0, 253.0, 126.0

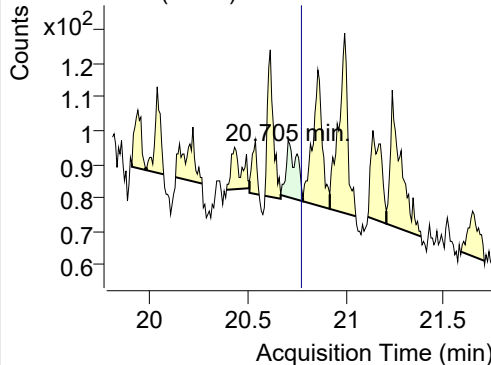


+ SIM (18.829-18.915 min, 13 scans) (**) 2207

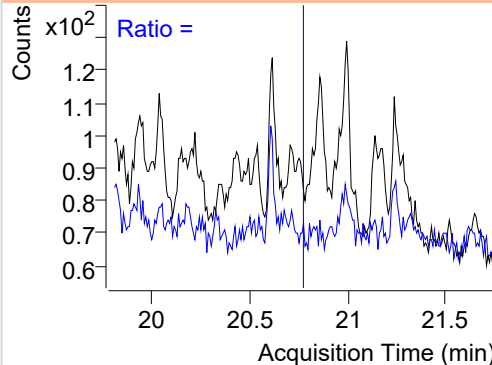


Indeno(1,2,3-c,d)pyrene

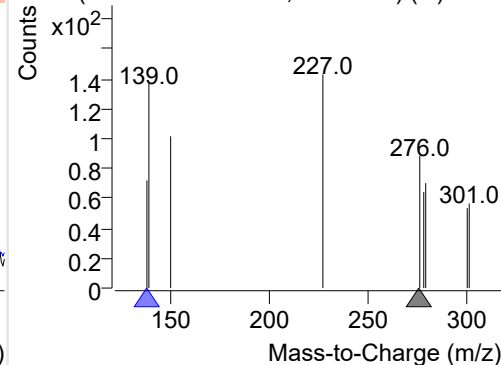
+ Selected Ion (276.0) 220707-PAHs-031.D



276.0, 138.0

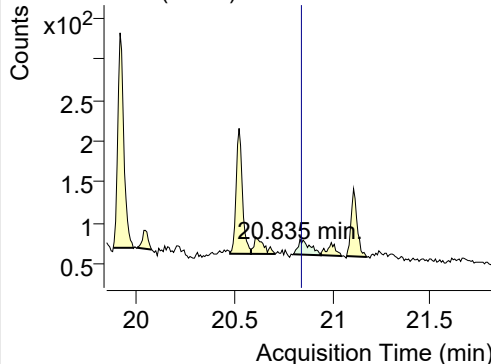


+ SIM (20.667-20.782 min, 16 scans) (**) 2207

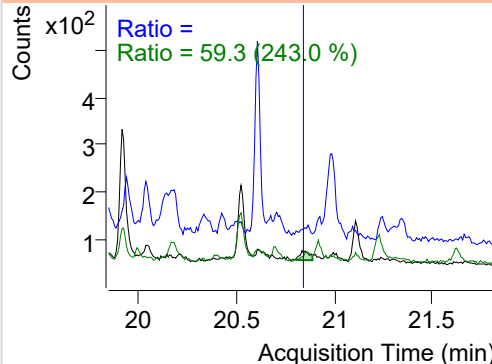


Dibenz(a,h)anthracene

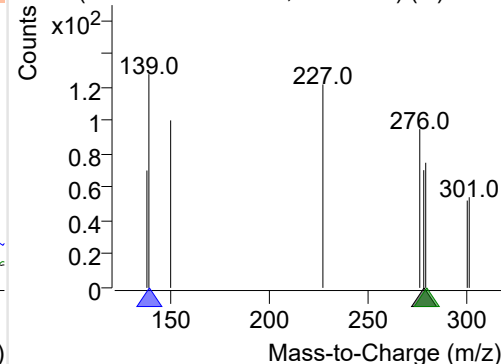
+ Selected Ion (278.0) 220707-PAHs-031.D



278.0, 139.0, 279.0



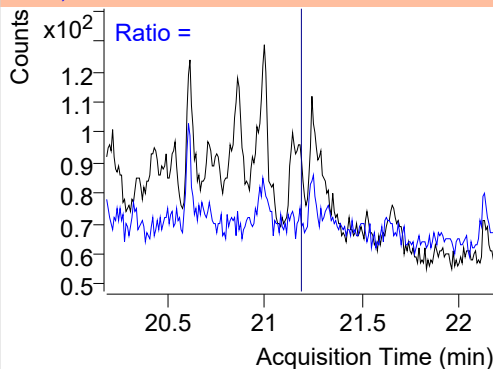
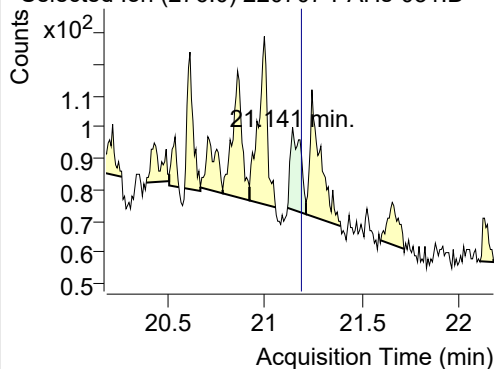
+ SIM (20.800-20.942 min, 19 scans) (**) 2207



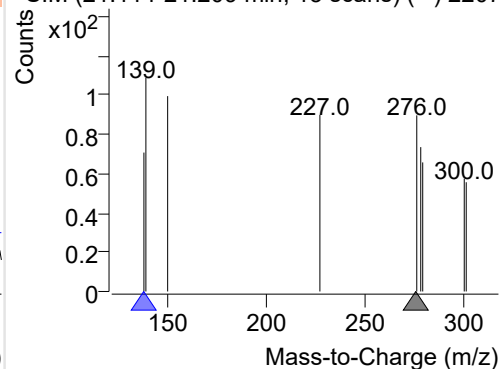
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 220707-PAHs-031.D

276.0, 138.0

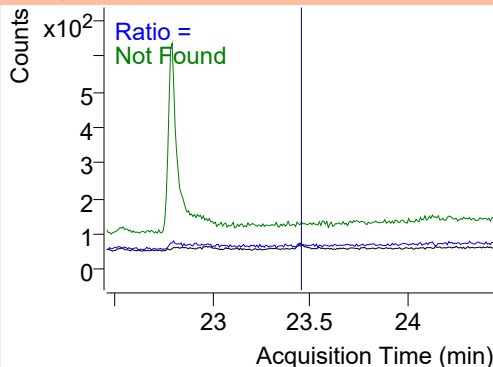
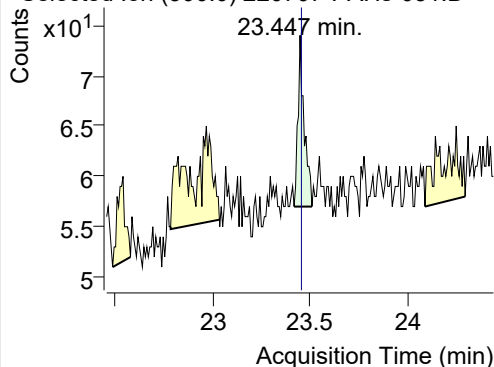


+ SIM (21.114-21.209 min, 13 scans) (**) 2207

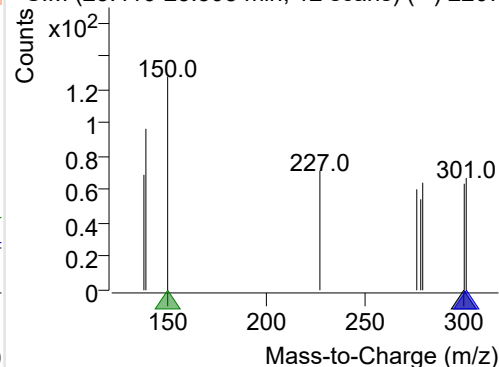
**Coronene**

+ Selected Ion (300.0) 220707-PAHs-031.D

300.0, 301.0, 150.0



+ SIM (23.416-23.508 min, 12 scans) (**) 2207



Quantitative Analysis Sample Based Report

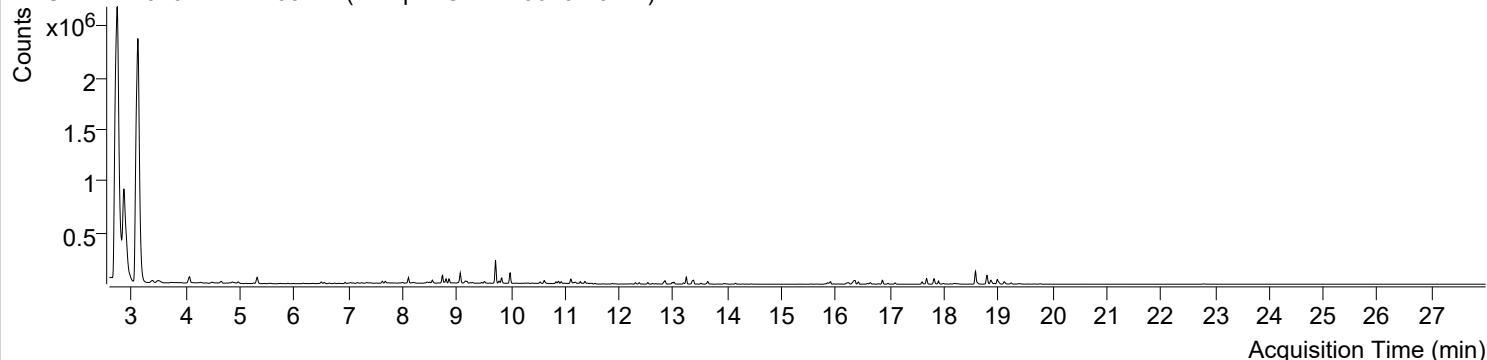


Trusted Answers

| | | | |
|---------------------------|--|-----------------------|-------------------------|
| Batch Data Path File Name | D:\MassHunter\GCMS\1\data\PAHs\220707-PAHs-Sample\QuantResults\220707-PAHs-Quant.batch.bin | | |
| Analysis Time Stamp | 2022-07-09 오전 11:12:52 | Analyst Name | DESKTOP-86B7UPG\5975MS |
| Report Generation Time | 2022-07-09 오전 11:13:20 | Report Generator Name | DESKTOP-86B7UPG\5975MS |
| Calibration Last Update | 2022-07-09 오전 11:04:15 | Batch State | Processed |
| Analyze Quant Version | 10.2 | Report Quant Version | 10.2 |
| Acq. Date-Time | 2022-07-08 오전 5:23:44 | Data File | 220707-PAHs-032.D |
| Type | Sample | Name | Sample-Gas-220616-10DIL |
| Dil. | 1 | Acq. Method File | PAHs 19mix-Method |

Sample Chromatogram

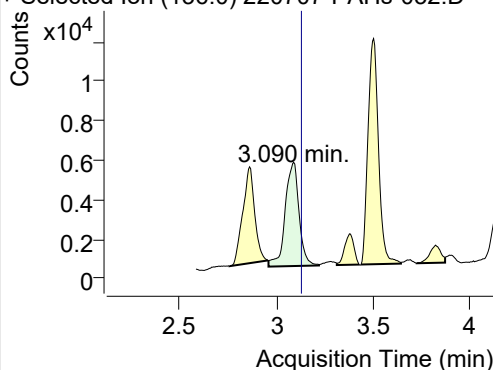
+ TIC SIM 220707-PAHs-032.D (Sample-Gas-220616-10DIL)



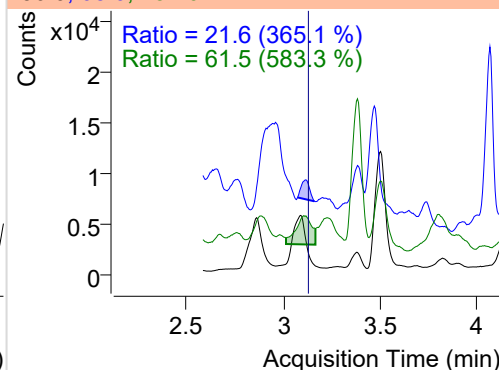
| Name | RT | Transition | Resp. | Height | Final Conc. Units | Ratio |
|-------------------------|--------|------------|---------|------------|-------------------|-------|
| IS-D8-Naphthalene | 3.090 | 136.0 | 26083 | 5260.91 | ND ng/ml | 61.5 |
| Naphthalene | 3.112 | 128.0 | 8410825 | 1900113.31 | ND ng/ml | 11.4 |
| Acenaphthylene | 6.167 | 152.0 | 6459 | 3421.93 | ND ng/ml | 17.0 |
| IS-D10-Acenaphthene | 6.498 | 164.0 | 16695 | 8180.24 | ND ng/ml | 91.2 |
| Acenaphthene | 6.558 | 154.0 | 6445 | 3065.64 | ND ng/ml | 100.8 |
| LSS-D10-Fluorene | 7.627 | 176.0 | 12771 | 7907.90 | ND ng/ml | 95.0 |
| Fluorene | 7.680 | 166.0 | 14769 | 8477.73 | ND ng/ml | 121.8 |
| IS-D10-Phenanthrene | 9.790 | 188.0 | 25096 | 14658.13 | ND ng/ml | 16.4 |
| Phenanthrene | 9.832 | 178.0 | 55468 | 32652.49 | ND ng/ml | 20.7 |
| Anthracene | 9.990 | 178.0 | 46147 | 28732.49 | ND ng/ml | 27.7 |
| Fluoranthene | 12.532 | 202.0 | 17370 | 11037.90 | ND ng/ml | 19.7 |
| LSS-D10-Pyrene | 12.981 | 212.0 | 18547 | 11088.26 | ND ng/ml | 20.1 |
| Pyrene | 13.014 | 202.0 | 22798 | 13515.44 | ND ng/ml | 20.2 |
| Benz(a)anthracene | 15.806 | 228.0 | 508 | 218.02 | ND ng/ml | 40.0 |
| IS-D12-Chrysene | 15.843 | 240.0 | 18398 | 8867.27 | ND ng/ml | 18.7 |
| Chrysene | 15.898 | 228.0 | 2900 | 1293.61 | ND ng/ml | 31.9 |
| Benzo(b)fluoranthene | 18.238 | 252.0 | 866 | 377.21 | ND ng/ml | 22.6 |
| Benzo(k)fluoranthene | 18.238 | 252.0 | 866 | 377.21 | ND ng/ml | 22.6 |
| SS-D12-Benzo(e)pyrene | 18.608 | 264.0 | 9679 | 8444.76 | ND ng/ml | 22.8 |
| Benzo(e)pyrene | 18.580 | 252.0 | 7623 | 3085.98 | ND ng/ml | 18.8 |
| Benzo(a)pyrene | 18.786 | 252.0 | 4597 | 2101.72 | ND ng/ml | 20.9 |
| IS-D12-Perylene | 18.872 | 264.0 | 11688 | 12306.07 | ND ng/ml | 28.3 |
| Perylene | 18.858 | 252.0 | 3737 | 1909.10 | ND ng/ml | 22.0 |
| Indeno(1,2,3-c,d)pyrene | 20.858 | 276.0 | 94 | 26.50 | ND ng/ml | |
| Dibenz(a,h)anthracene | 20.835 | 278.0 | 44 | 14.86 | ND ng/ml | |
| Benzo(g,h,i)perylene | 21.179 | 276.0 | 65 | 24.14 | ND ng/ml | |
| Coronene | 23.447 | 300.0 | 38 | 11.33 | ND ng/ml | |

IS-D8-Naphthalene

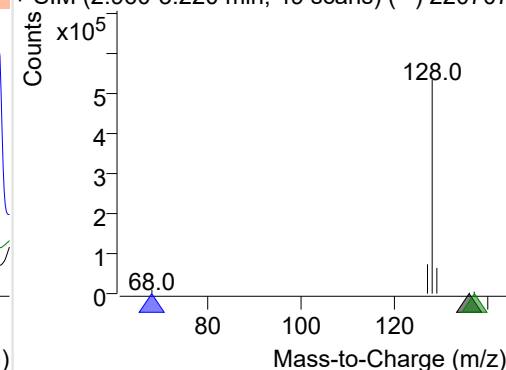
+ Selected Ion (136.0) 220707-PAHs-032.D



136.0, 68.0, 137.0

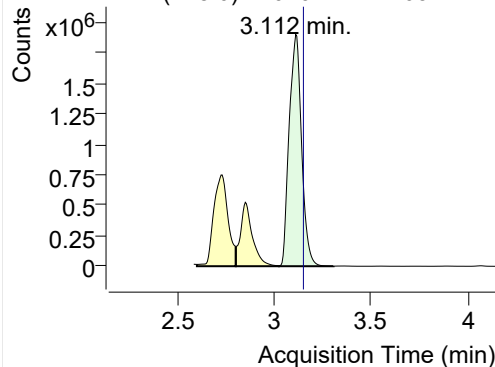


+ SIM (2.960-3.220 min, 49 scans) (**) 220707

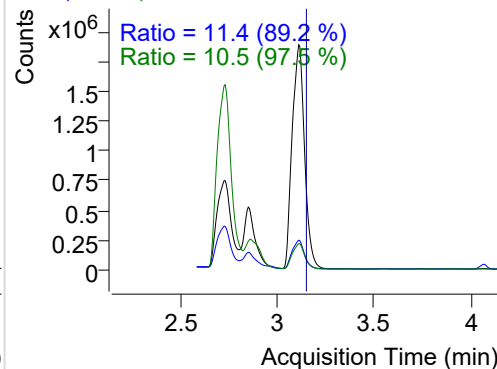


Naphthalene

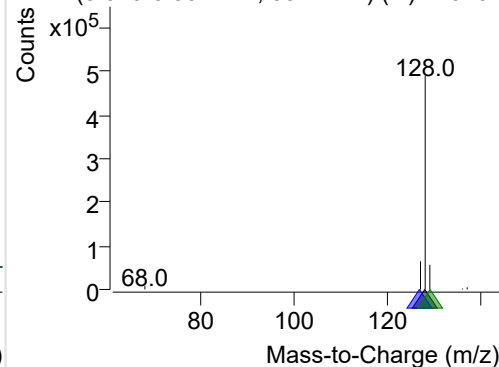
+ Selected Ion (128.0) 220707-PAHs-032.D



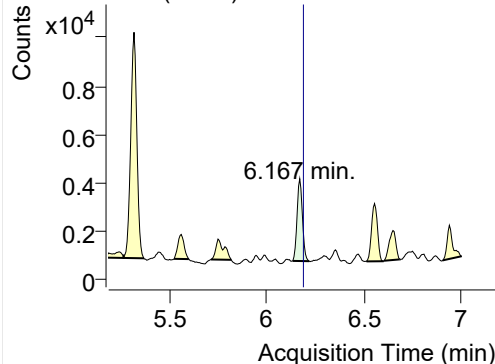
128.0, 127.0, 129.0



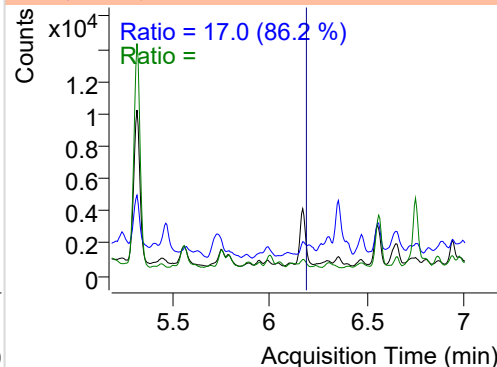
+ SIM (3.025-3.307 min, 53 scans) (**) 220707

**Acenaphthylene**

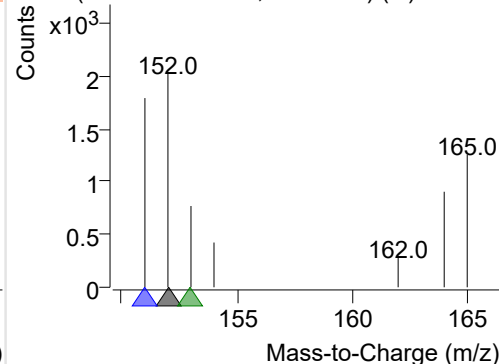
+ Selected Ion (152.0) 220707-PAHs-032.D



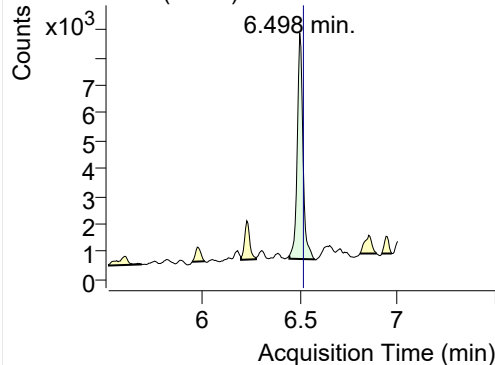
152.0, 151.0, 153.0



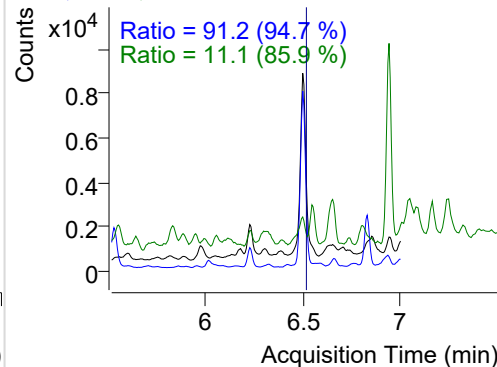
+ SIM (6.132-6.216 min, 14 scans) (**) 220707

**IS-D10-Acenaphthene**

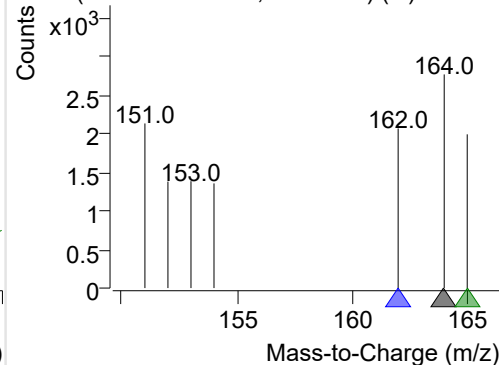
+ Selected Ion (164.0) 220707-PAHs-032.D



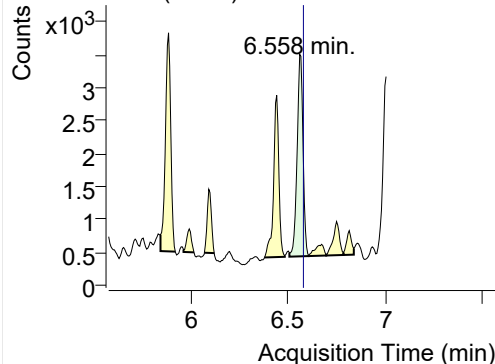
164.0, 162.0, 165.0



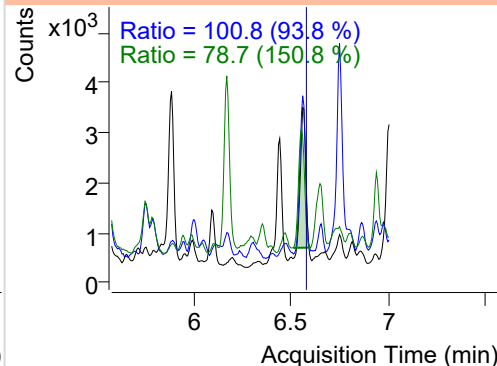
+ SIM (6.445-6.576 min, 23 scans) (**) 220707

**Acenaphthene**

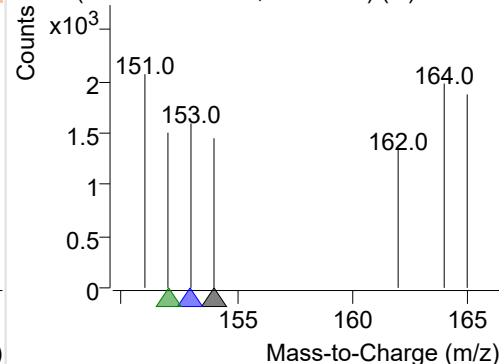
+ Selected Ion (154.0) 220707-PAHs-032.D



154.0, 153.0, 152.0

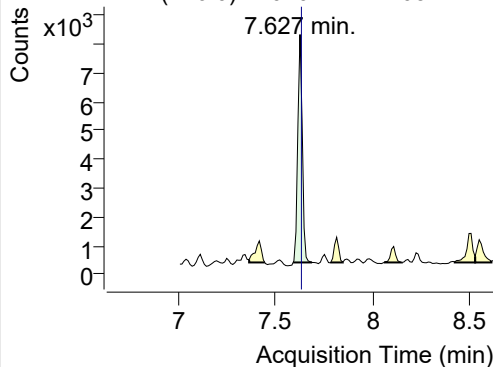


+ SIM (6.504-6.605 min, 18 scans) (**) 220707

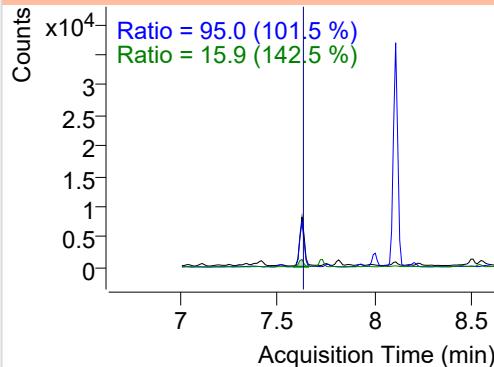


LSS-D10-Fluorene

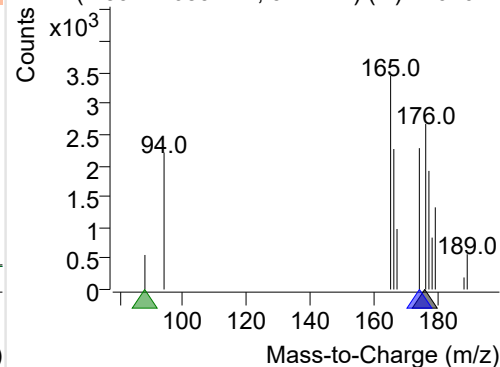
+ Selected Ion (176.0) 220707-PAHs-032.D



176.0, 174.0, 88.0

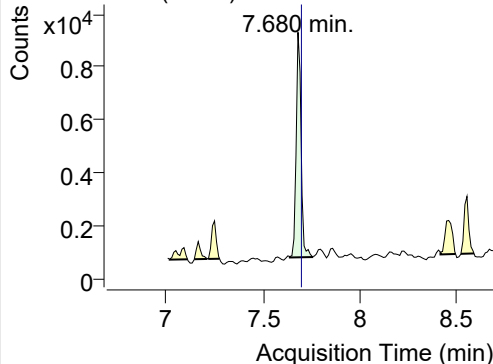


+ SIM (7.592-7.689 min, 9 scans) (**) 220707-I

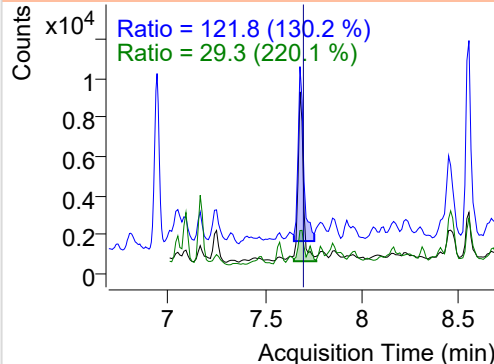


Fluorene

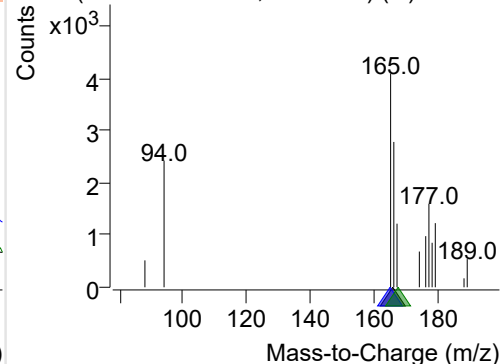
+ Selected Ion (166.0) 220707-PAHs-032.D



166.0, 165.0, 167.0

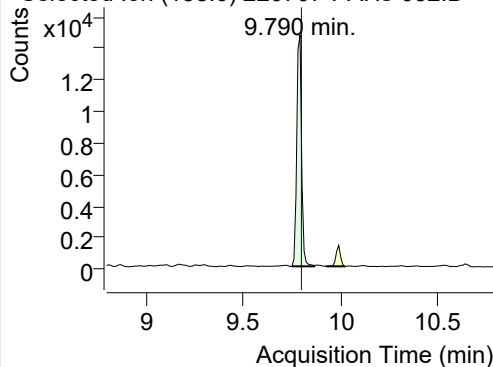


+ SIM (7.638-7.753 min, 12 scans) (**) 220707

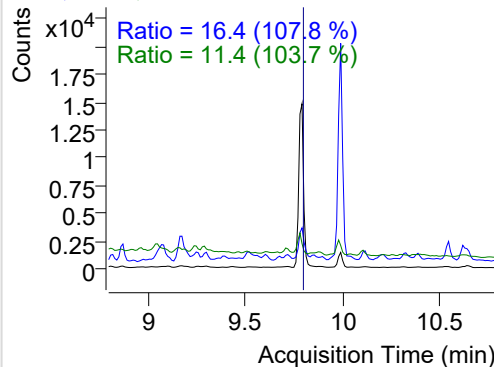


IS-D10-Phenanthrene

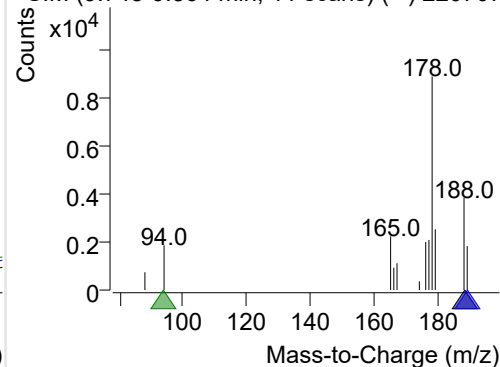
+ Selected Ion (188.0) 220707-PAHs-032.D



188.0, 189.0, 94.0

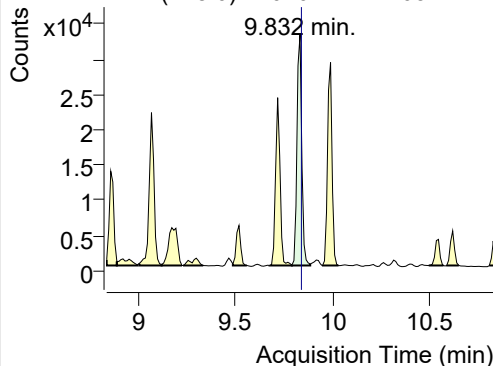


+ SIM (9.748-9.864 min, 11 scans) (**) 220707

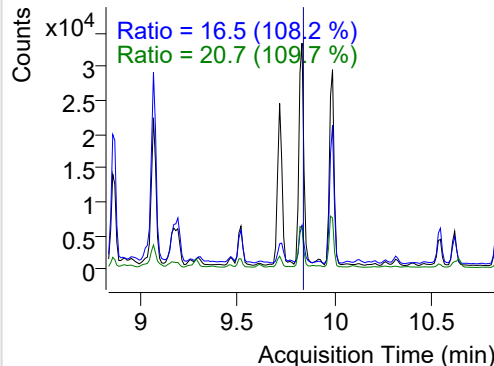


Phenanthrene

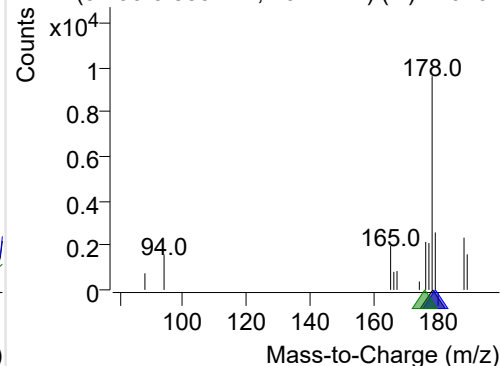
+ Selected Ion (178.0) 220707-PAHs-032.D



178.0, 179.0, 176.0

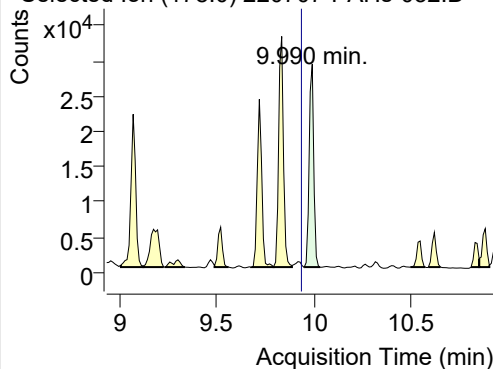


+ SIM (9.790-9.885 min, 10 scans) (**) 220707

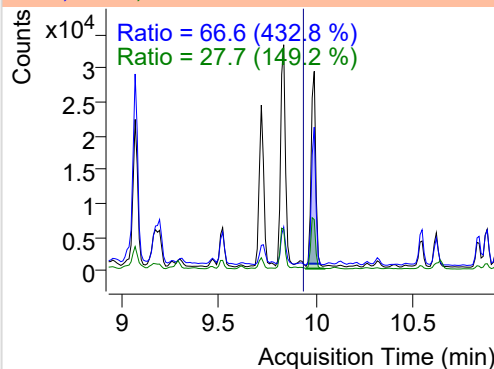


Anthracene

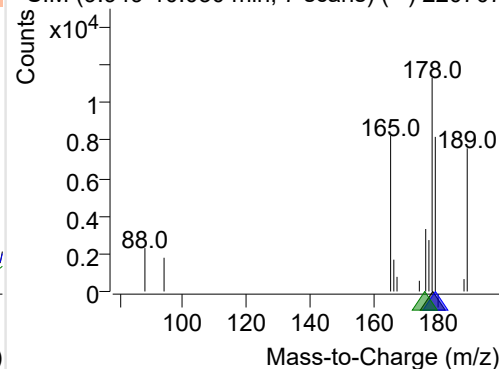
+ Selected Ion (178.0) 220707-PAHs-032.D



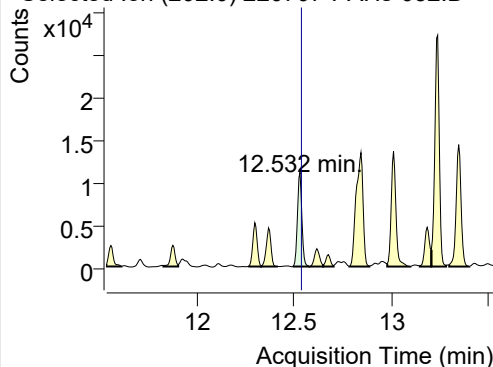
178.0, 179.0, 176.0



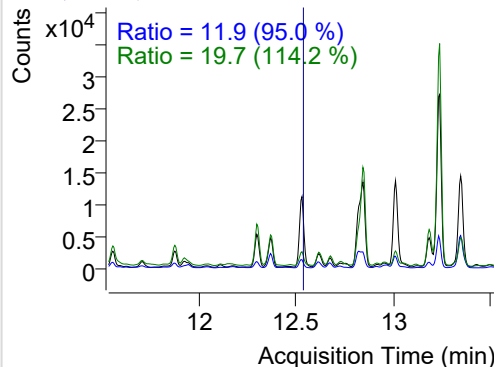
+ SIM (9.949-10.030 min, 7 scans) (**) 220707

**Fluoranthene**

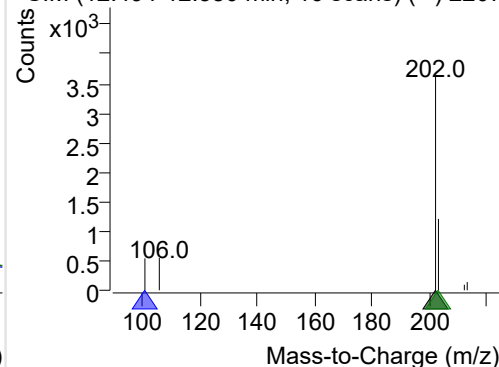
+ Selected Ion (202.0) 220707-PAHs-032.D



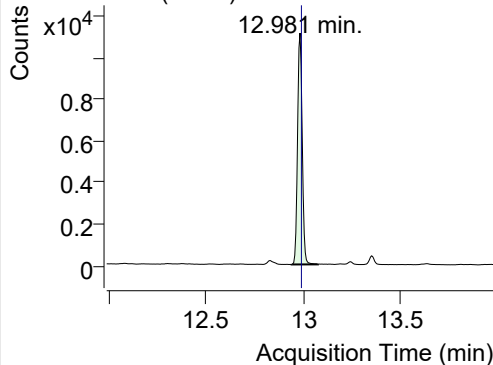
202.0, 101.0, 203.0



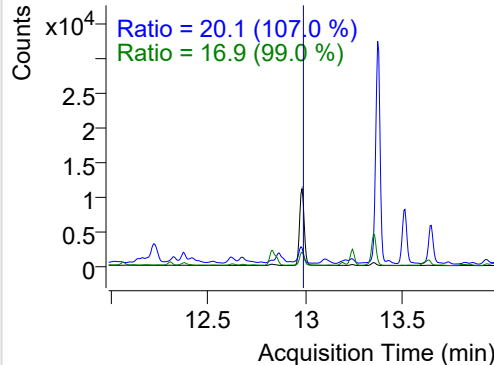
+ SIM (12.494-12.580 min, 16 scans) (**) 2207

**LSS-D10-Pyrene**

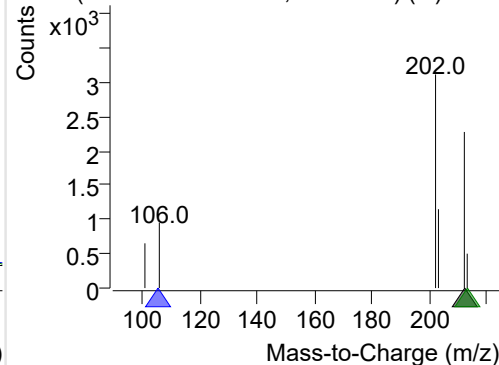
+ Selected Ion (212.0) 220707-PAHs-032.D



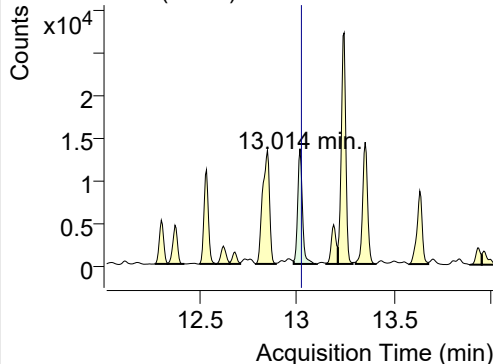
212.0, 106.0, 213.0



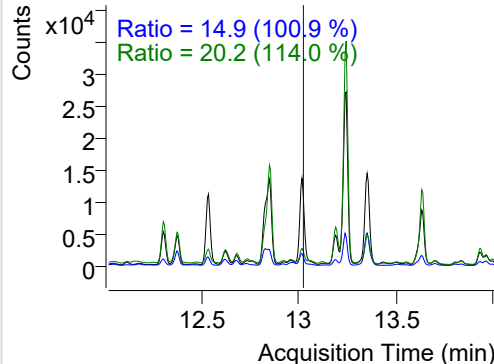
+ SIM (12.938-13.074 min, 26 scans) (**) 2207

**Pyrene**

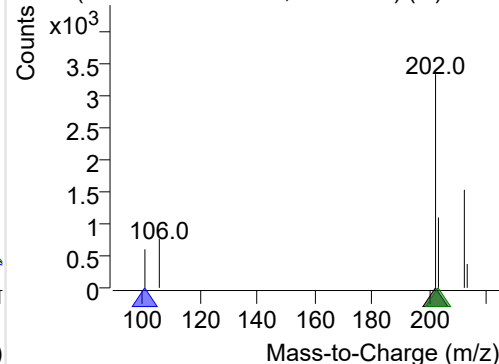
+ Selected Ion (202.0) 220707-PAHs-032.D



202.0, 101.0, 203.0



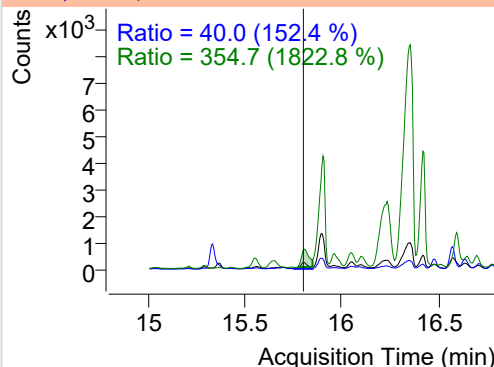
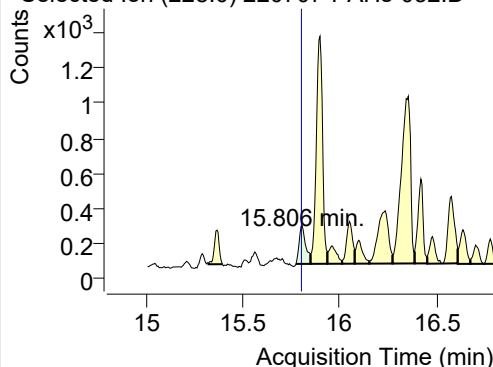
+ SIM (12.981-13.101 min, 23 scans) (**) 2207



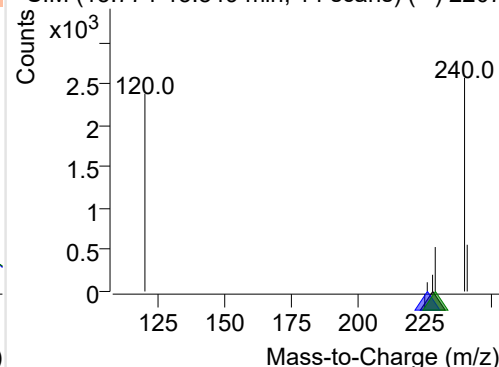
Benz(a)anthracene

+ Selected Ion (228.0) 220707-PAHs-032.D

228.0, 226.0, 229.0

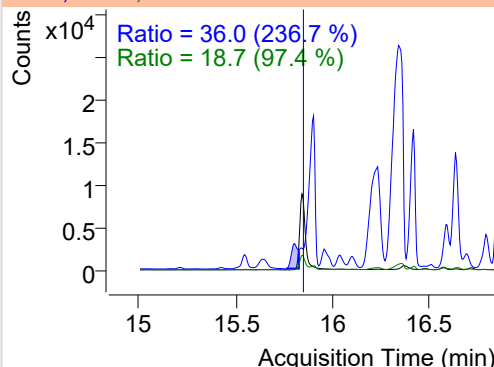
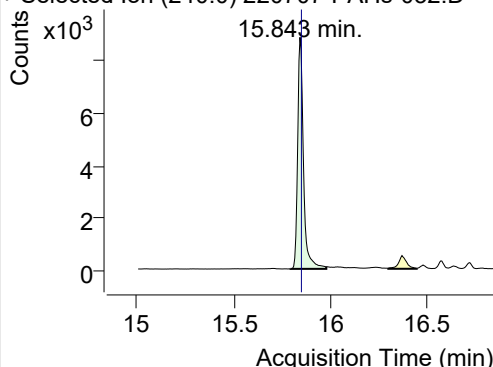


+ SIM (15.774-15.849 min, 14 scans) (**) 2207

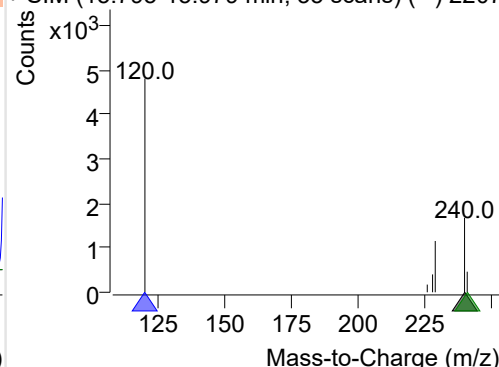
**IS-D12-Chrysene**

+ Selected Ion (240.0) 220707-PAHs-032.D

240.0, 120.0, 241.0

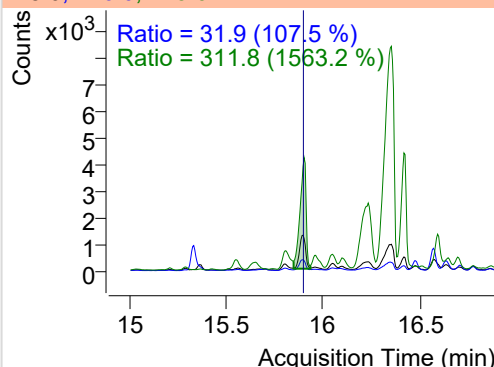
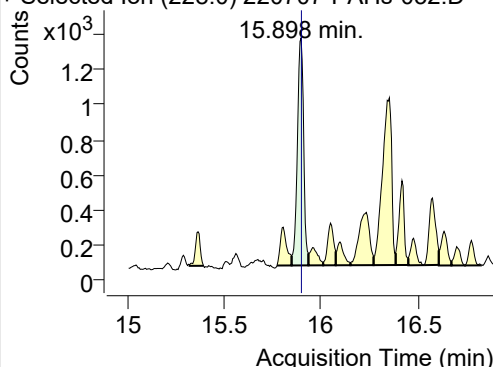


+ SIM (15.795-15.979 min, 35 scans) (**) 2207

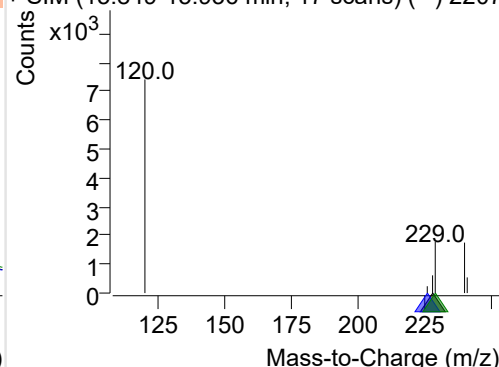
**Chrysene**

+ Selected Ion (228.0) 220707-PAHs-032.D

228.0, 226.0, 229.0

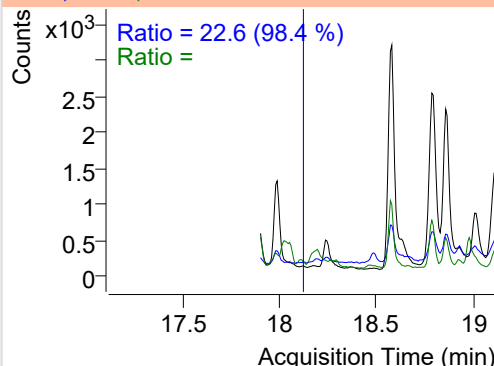
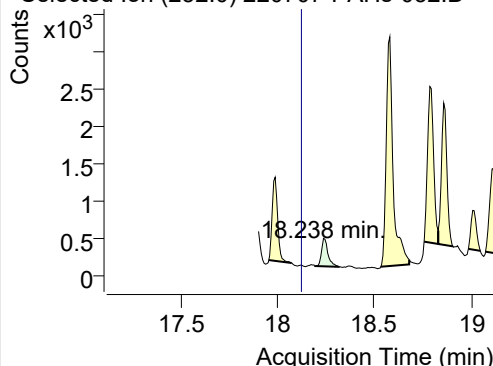


+ SIM (15.849-15.936 min, 17 scans) (**) 2207

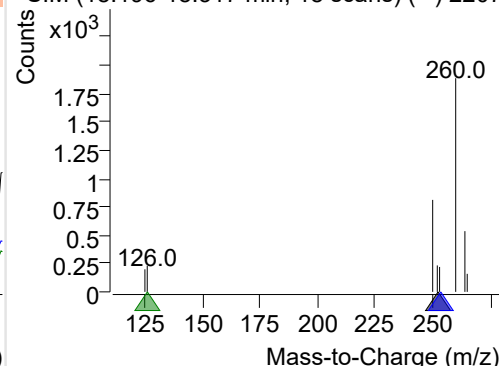
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 220707-PAHs-032.D

252.0, 253.0, 126.0



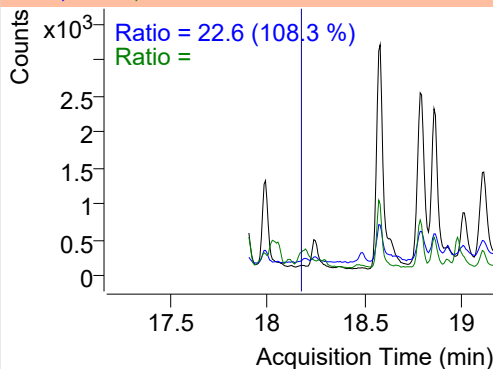
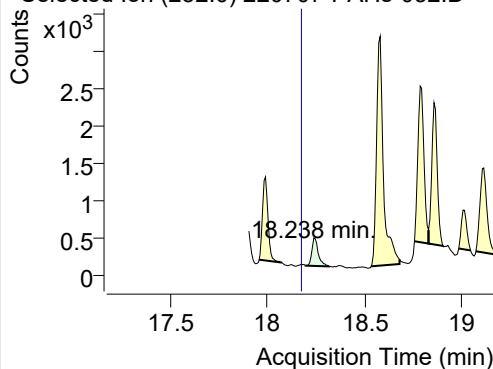
+ SIM (18.196-18.317 min, 18 scans) (**) 2207



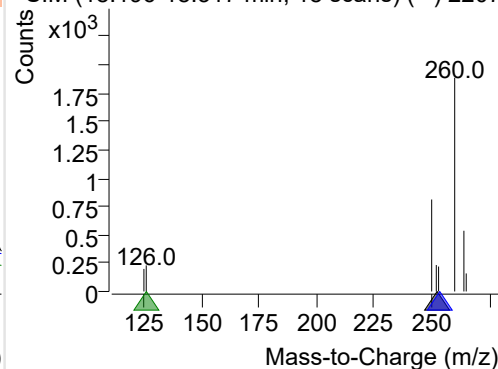
Benzo(k)fluoranthene

+ Selected Ion (252.0) 220707-PAHs-032.D

252.0, 253.0, 126.0

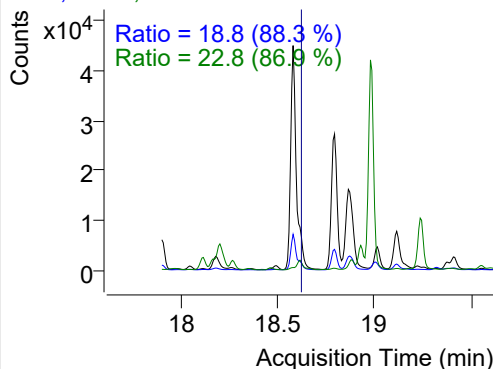
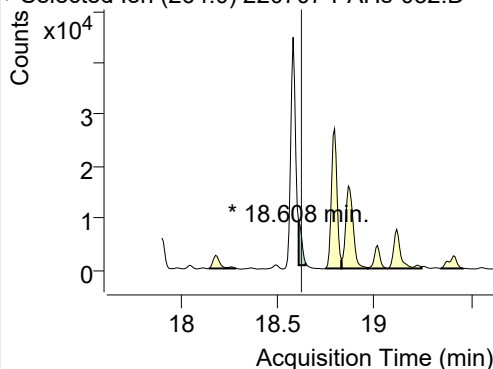


+ SIM (18.196-18.317 min, 18 scans) (**) 2207

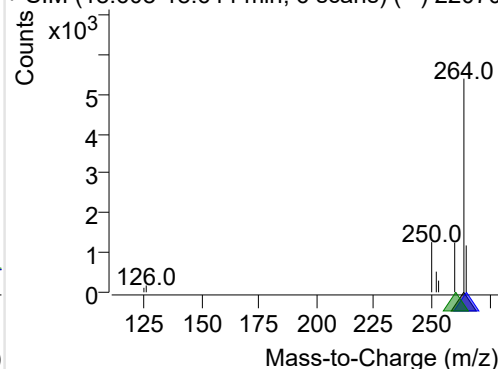
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 220707-PAHs-032.D

264.0, 265.0, 260.0

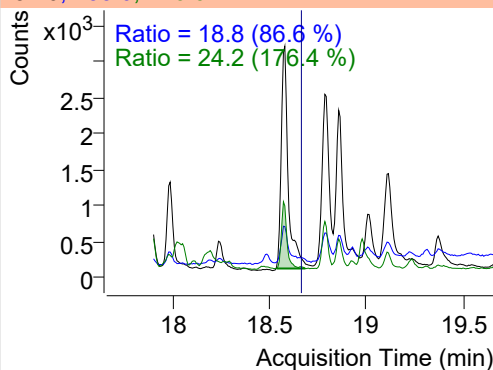
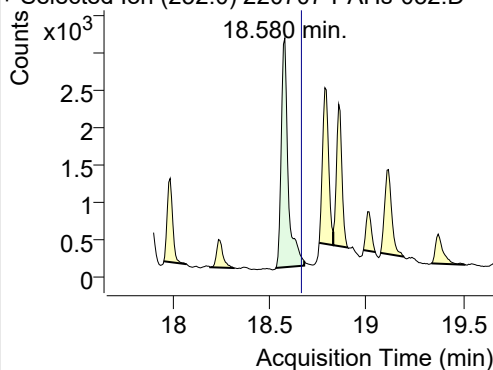


+ SIM (18.608-18.644 min, 6 scans) (**) 22070

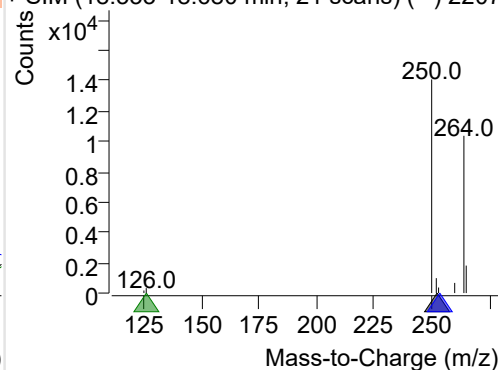
**Benzo(e)pyrene**

+ Selected Ion (252.0) 220707-PAHs-032.D

252.0, 253.0, 126.0

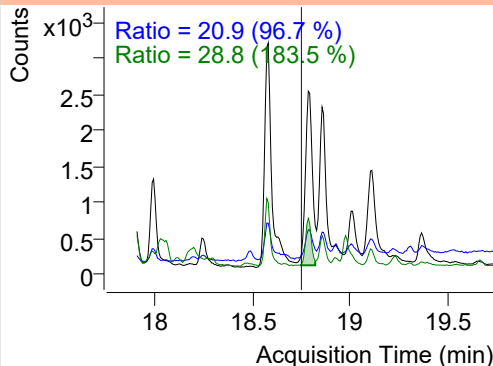
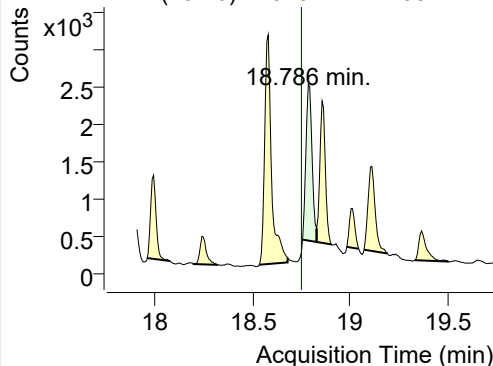


+ SIM (18.533-18.680 min, 21 scans) (**) 2207

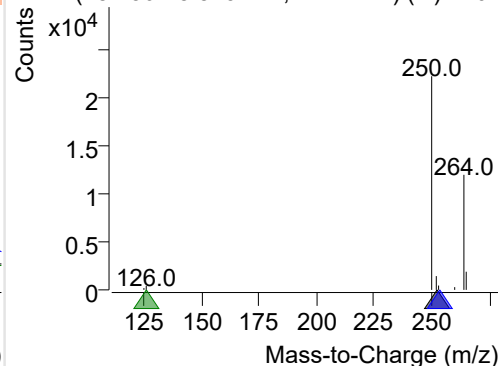
**Benzo(a)pyrene**

+ Selected Ion (252.0) 220707-PAHs-032.D

252.0, 253.0, 126.0

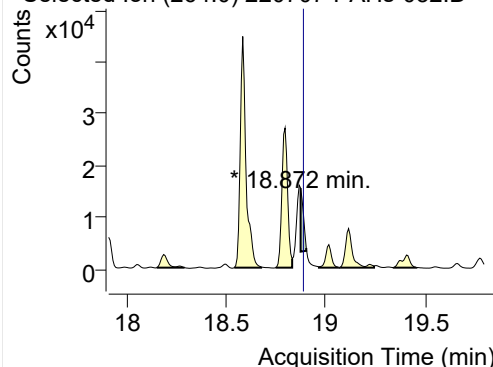


+ SIM (18.756-18.829 min, 11 scans) (**) 2207

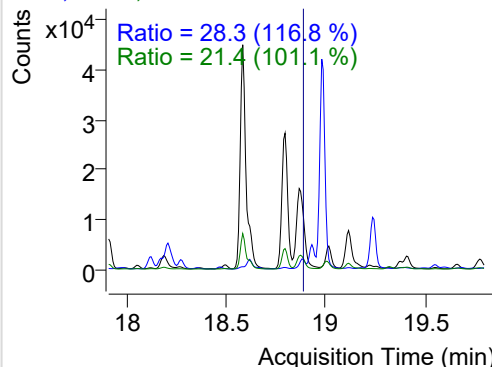


IS-D12-Perylene

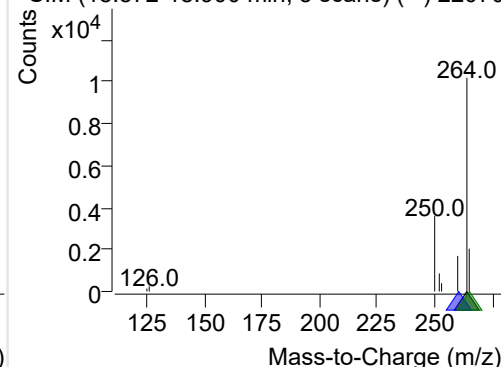
+ Selected Ion (264.0) 220707-PAHs-032.D



264.0, 260.0, 265.0

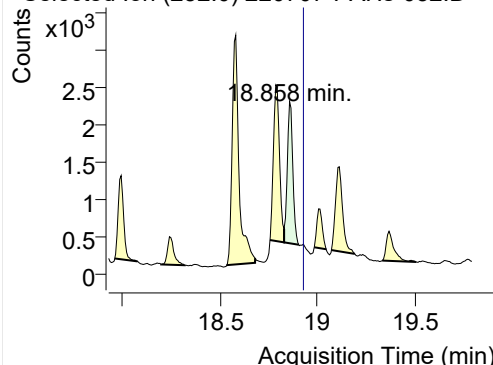


+ SIM (18.872-18.900 min, 5 scans) (**) 22070

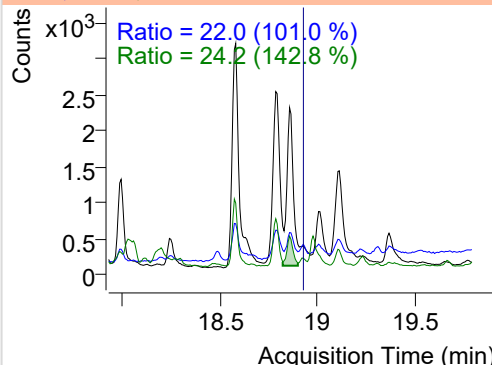


Perylene

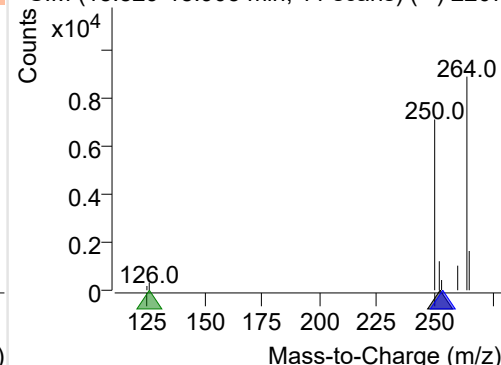
+ Selected Ion (252.0) 220707-PAHs-032.D



252.0, 253.0, 126.0

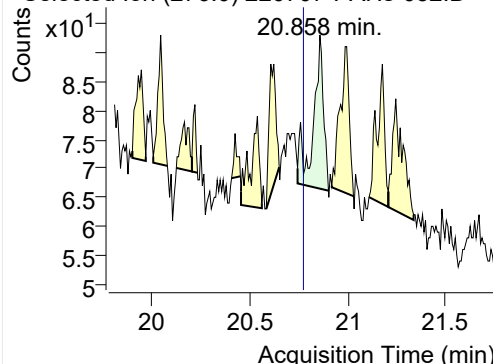


+ SIM (18.829-18.905 min, 11 scans) (**) 2207

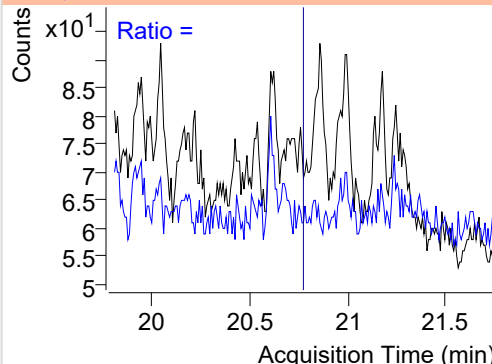


Indeno(1,2,3-c,d)pyrene

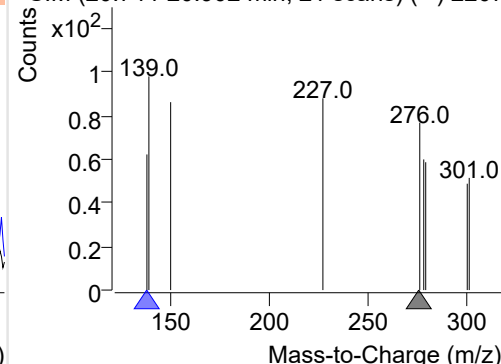
+ Selected Ion (276.0) 220707-PAHs-032.D



276.0, 138.0

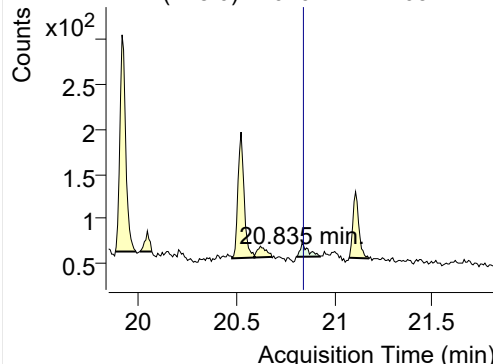


+ SIM (20.744-20.902 min, 21 scans) (**) 2207

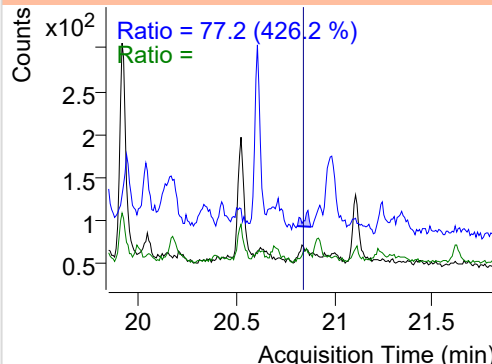


Dibenz(a,h)anthracene

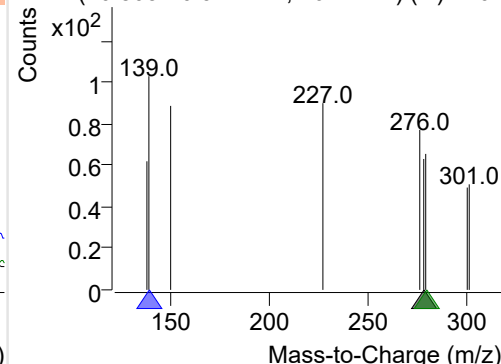
+ Selected Ion (278.0) 220707-PAHs-032.D



278.0, 139.0, 279.0

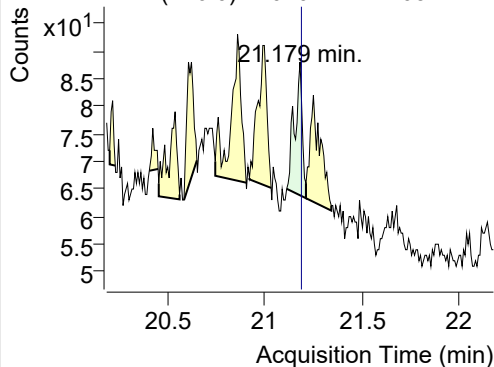


+ SIM (20.805-20.927 min, 16 scans) (**) 2207

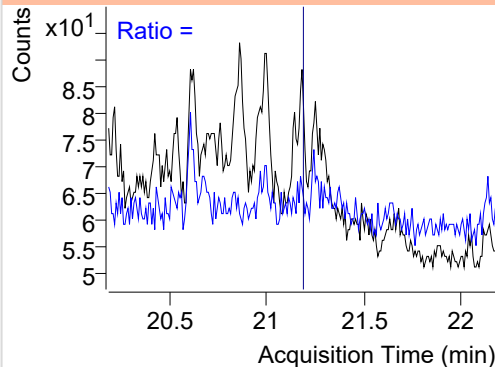


Benzo(g,h,i)perylene

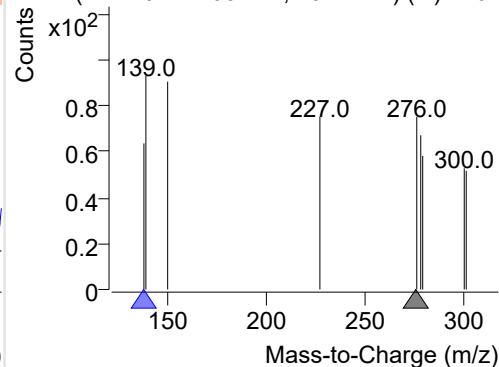
+ Selected Ion (276.0) 220707-PAHs-032.D



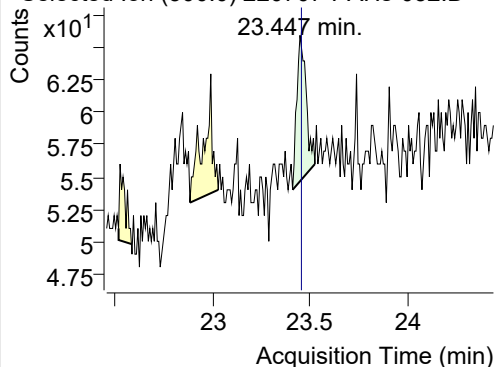
276.0, 138.0



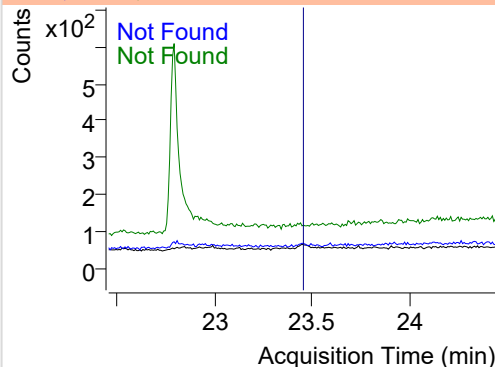
+ SIM (21.110-21.209 min, 13 scans) (**) 2207

**Coronene**

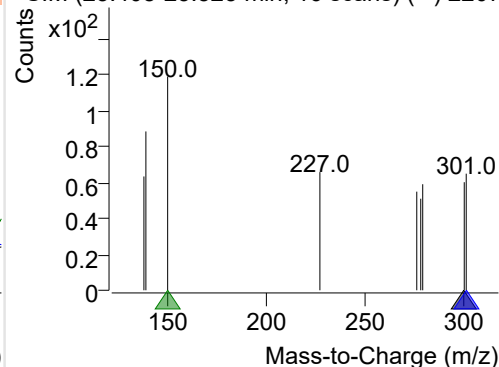
+ Selected Ion (300.0) 220707-PAHs-032.D



300.0, 301.0, 150.0



+ SIM (23.408-23.523 min, 16 scans) (**) 2207



Quantitative Analysis Sample Based Report

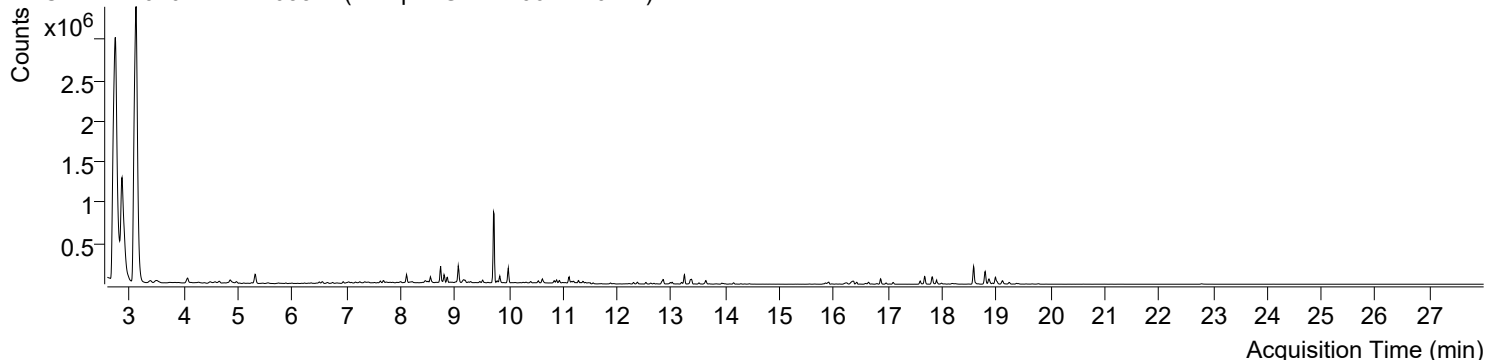


Trusted Answers

| | | | |
|---------------------------|--|-----------------------|-------------------------|
| Batch Data Path File Name | D:\MassHunter\GCMS\1\data\PAHs\220707-PAHs-Sample\QuantResults\220707-PAHs-Quant.batch.bin | | |
| Analysis Time Stamp | 2022-07-09 오전 11:12:52 | Analyst Name | DESKTOP-86B7UPG\5975MS |
| Report Generation Time | 2022-07-09 오전 11:13:20 | Report Generator Name | DESKTOP-86B7UPG\5975MS |
| Calibration Last Update | 2022-07-09 오전 11:04:15 | Batch State | Processed |
| Analyze Quant Version | 10.2 | Report Quant Version | 10.2 |
| Acq. Date-Time | 2022-07-08 오전 5:54:45 | Data File | 220707-PAHs-033.D |
| Type | Sample | Name | Sample-Gas-220622-10DIL |
| Dil. | 1 | Acq. Method File | PAHs 19mix-Method |

Sample Chromatogram

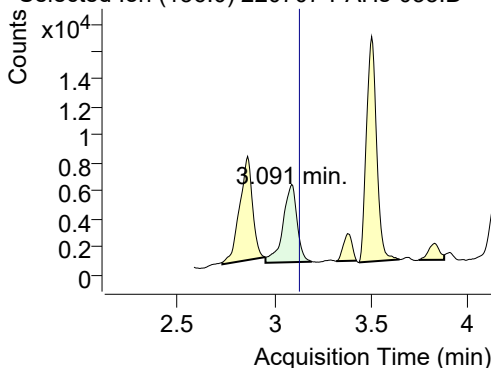
+ TIC SIM 220707-PAHs-033.D (Sample-Gas-220622-10DIL)



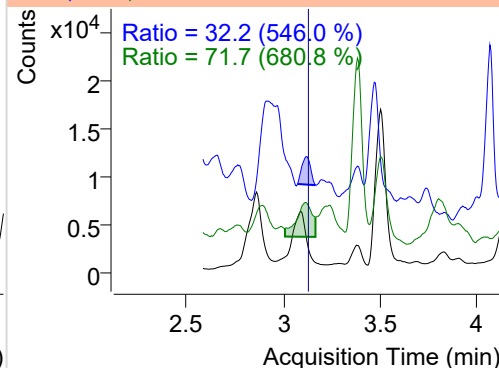
| Name | RT | Transition | Resp. | Height | Final Conc. Units | Ratio |
|-------------------------|--------|------------|----------|------------|-------------------|-------|
| IS-D8-Naphthalene | 3.091 | 136.0 | 28123 | 5574.22 | ND ng/ml | 71.7 |
| Naphthalene | 3.118 | 128.0 | 11707009 | 2701533.71 | ND ng/ml | 13.0 |
| Acenaphthylene | 6.167 | 152.0 | 3003 | 1538.13 | ND ng/ml | 84.2 |
| IS-D10-Acenaphthene | 6.499 | 164.0 | 18429 | 8243.53 | ND ng/ml | 93.0 |
| Acenaphthene | 6.564 | 154.0 | 11324 | 5291.18 | ND ng/ml | 98.1 |
| LSS-D10-Fluorene | 7.627 | 176.0 | 12092 | 7742.72 | ND ng/ml | 96.9 |
| Fluorene | 7.680 | 166.0 | 22824 | 11788.25 | ND ng/ml | 124.4 |
| IS-D10-Phenanthrene | 9.790 | 188.0 | 26121 | 16400.19 | ND ng/ml | 16.9 |
| Phenanthrene | 9.832 | 178.0 | 83712 | 51667.85 | ND ng/ml | 18.8 |
| Anthracene | 9.990 | 178.0 | 75310 | 50371.85 | ND ng/ml | 27.1 |
| Fluoranthene | 12.532 | 202.0 | 22671 | 14056.65 | ND ng/ml | 22.1 |
| LSS-D10-Pyrene | 12.982 | 212.0 | 18834 | 11647.47 | ND ng/ml | 36.5 |
| Pyrene | 13.014 | 202.0 | 28525 | 16377.86 | ND ng/ml | 19.7 |
| Benz(a)anthracene | 15.811 | 228.0 | 496 | 195.77 | ND ng/ml | 33.4 |
| IS-D12-Chrysene | 15.844 | 240.0 | 19346 | 9665.65 | ND ng/ml | 24.8 |
| Chrysene | 15.898 | 228.0 | 2829 | 1127.26 | ND ng/ml | 29.3 |
| Benzo(b)fluoranthene | 17.989 | 252.0 | 4020 | 1939.00 | ND ng/ml | 12.1 |
| Benzo(k)fluoranthene | 18.245 | 252.0 | 1160 | 563.00 | ND ng/ml | 22.2 |
| SS-D12-Benzo(e)pyrene | 18.609 | 264.0 | 10092 | 10870.78 | ND ng/ml | 21.4 |
| Benzo(e)pyrene | 18.665 | 252.0 | 5573 | 2386.00 | ND ng/ml | 14.9 |
| Benzo(a)pyrene | 18.794 | 252.0 | 8799 | 3639.00 | ND ng/ml | 11.3 |
| IS-D12-Perylene | 18.872 | 264.0 | 13568 | 18434.84 | ND ng/ml | 21.2 |
| Perylene | 18.986 | 252.0 | 5279 | 1358.00 | ND ng/ml | 14.3 |
| Indeno(1,2,3-c,d)pyrene | 20.713 | 276.0 | 55 | 18.09 | ND ng/ml | |
| Dibenz(a,h)anthracene | 20.843 | 278.0 | 99 | 20.12 | ND ng/ml | |
| Benzo(g,h,i)perylene | 21.148 | 276.0 | 121 | 37.68 | ND ng/ml | |
| Coronene | 23.462 | 300.0 | 25 | 11.00 | ND ng/ml | |

IS-D8-Naphthalene

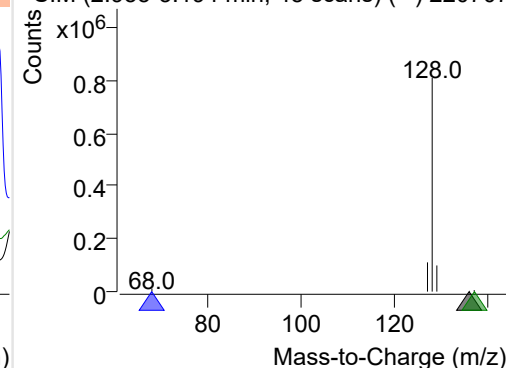
+ Selected Ion (136.0) 220707-PAHs-033.D



136.0, 68.0, 137.0

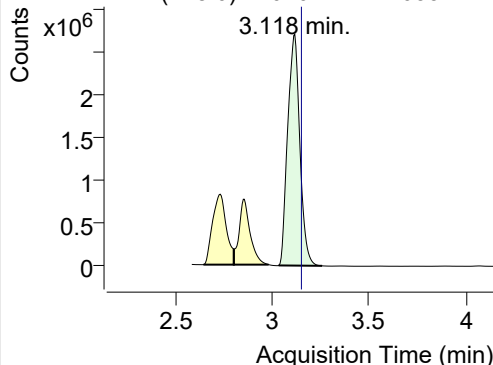


+ SIM (2.955-3.194 min, 45 scans) (**) 220707

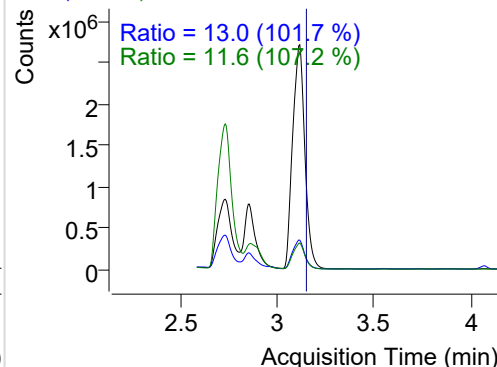


Naphthalene

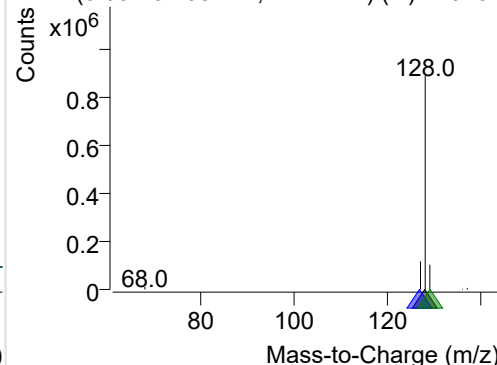
+ Selected Ion (128.0) 220707-PAHs-033.D



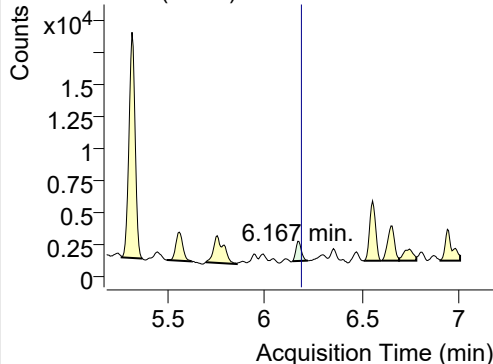
128.0, 127.0, 129.0



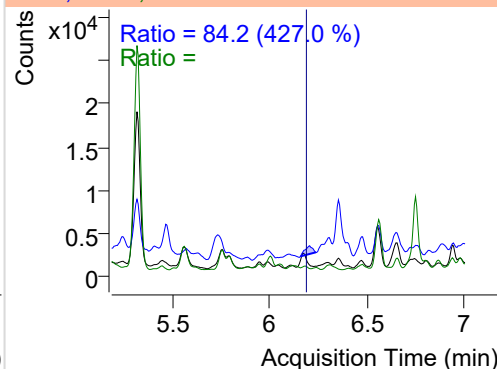
+ SIM (3.034-3.258 min, 41 scans) (**) 220707

**Acenaphthylene**

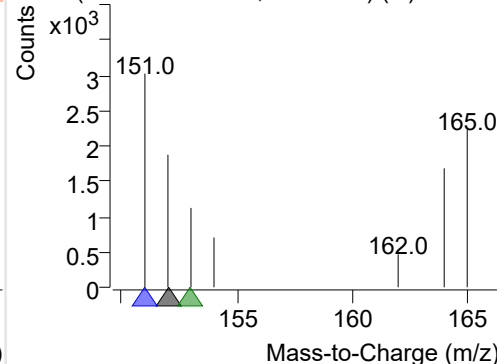
+ Selected Ion (152.0) 220707-PAHs-033.D



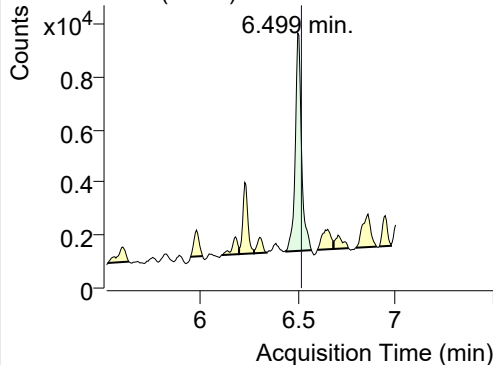
152.0, 151.0, 153.0



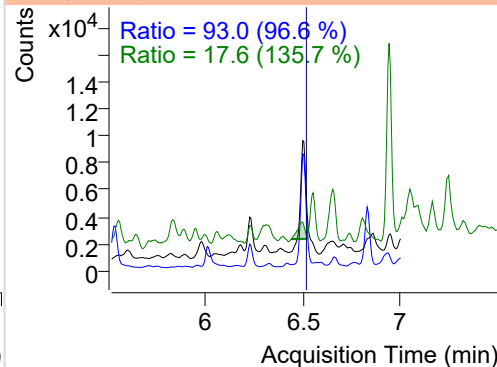
+ SIM (6.140-6.219 min, 13 scans) (**) 220707

**IS-D10-Acenaphthene**

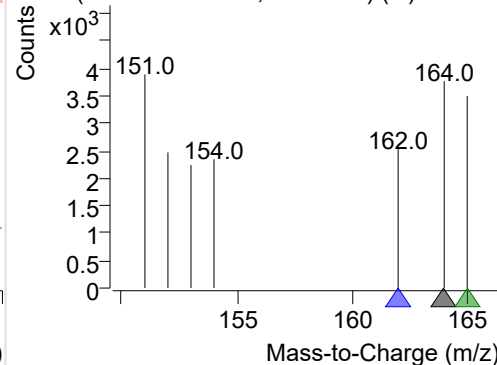
+ Selected Ion (164.0) 220707-PAHs-033.D



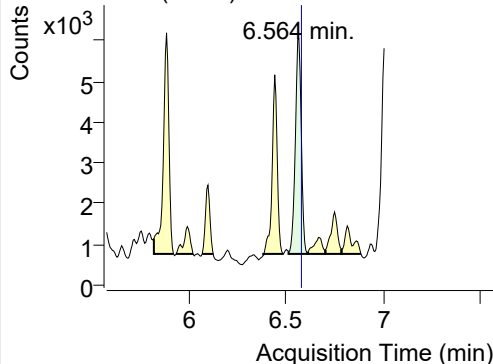
164.0, 162.0, 165.0



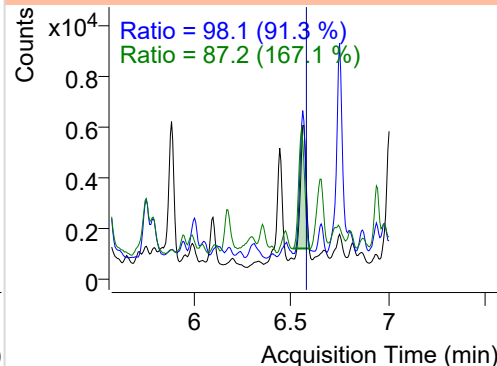
+ SIM (6.439-6.569 min, 22 scans) (**) 220707

**Acenaphthene**

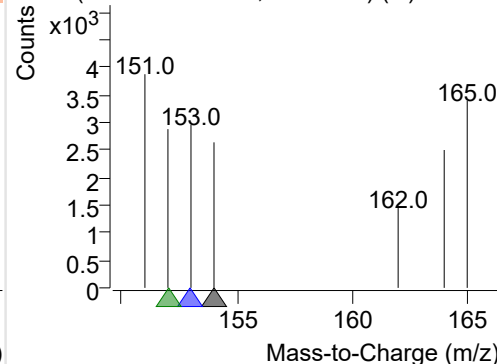
+ Selected Ion (154.0) 220707-PAHs-033.D



154.0, 153.0, 152.0

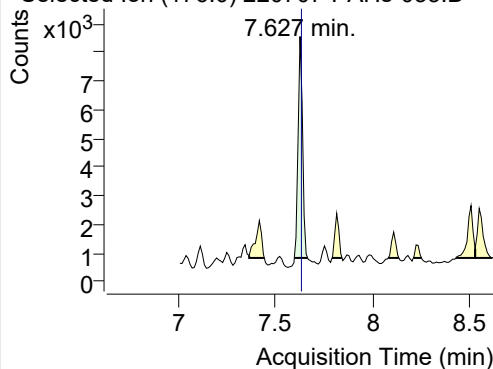


+ SIM (6.510-6.605 min, 17 scans) (**) 220707

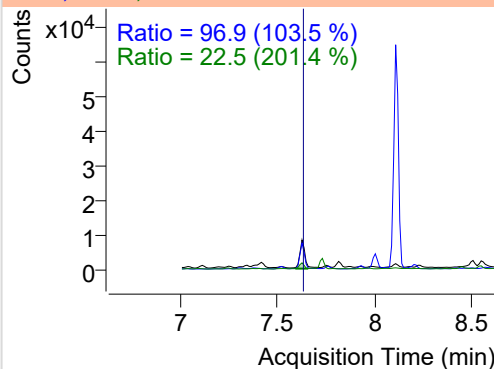


LSS-D10-Fluorene

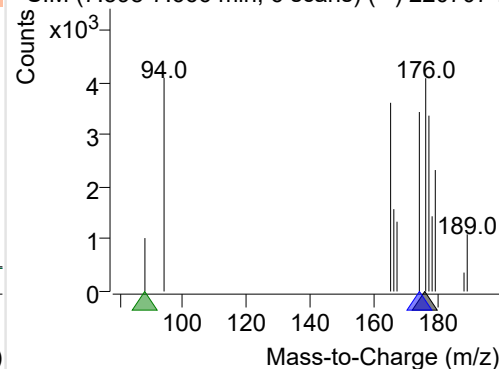
+ Selected Ion (176.0) 220707-PAHs-033.D



176.0, 174.0, 88.0

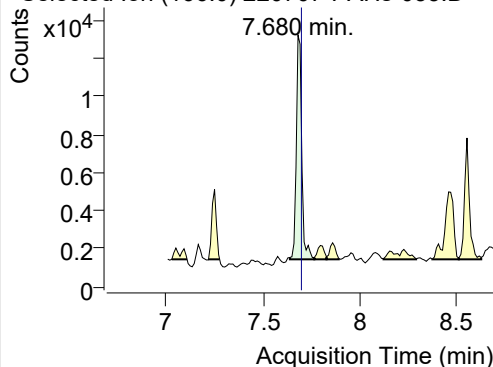


+ SIM (7.598-7.666 min, 6 scans) (**) 220707-I

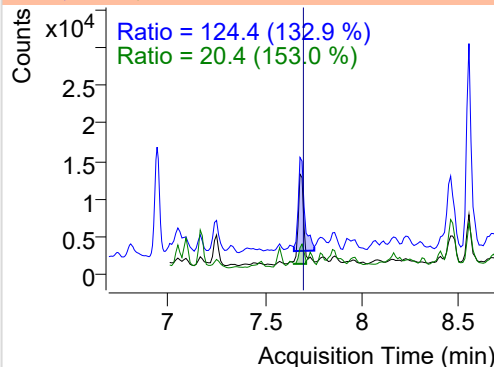


Fluorene

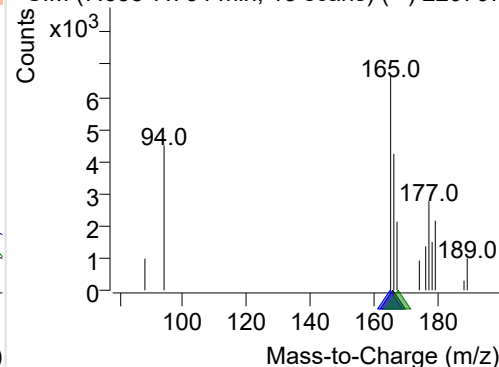
+ Selected Ion (166.0) 220707-PAHs-033.D



166.0, 165.0, 167.0

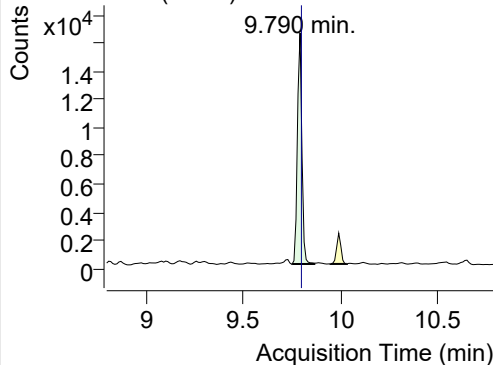


+ SIM (7.638-7.764 min, 13 scans) (**) 220707

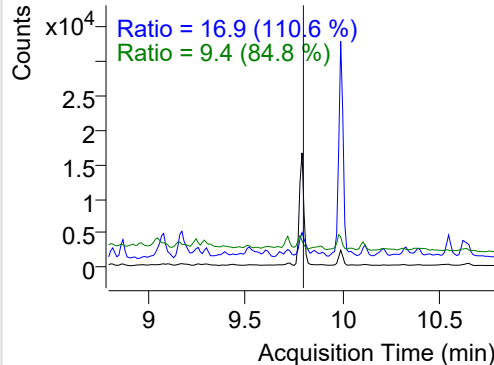


IS-D10-Phenanthrene

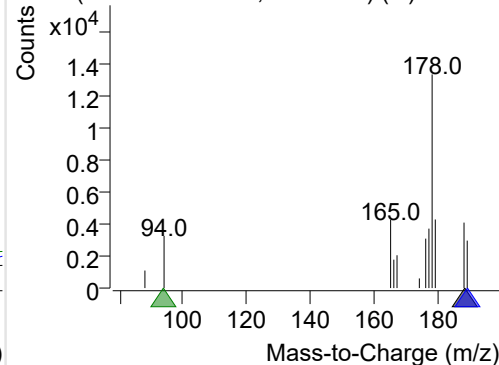
+ Selected Ion (188.0) 220707-PAHs-033.D



188.0, 189.0, 94.0

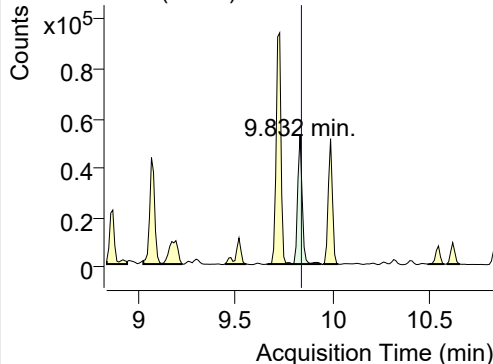


+ SIM (9.750-9.864 min, 11 scans) (**) 220707

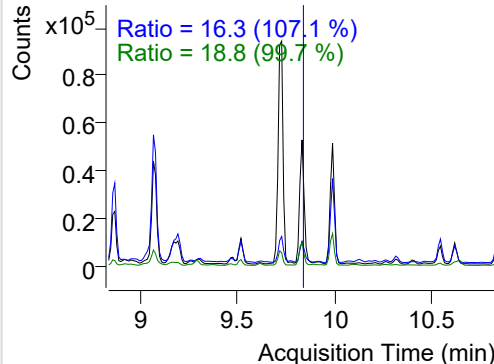


Phenanthrene

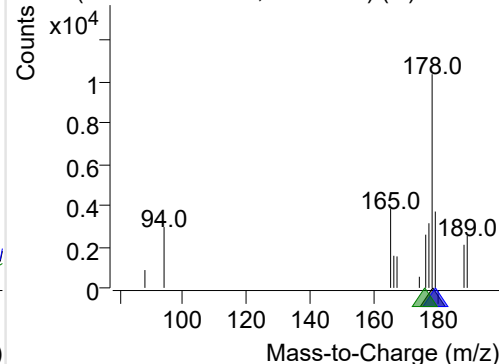
+ Selected Ion (178.0) 220707-PAHs-033.D



178.0, 179.0, 176.0

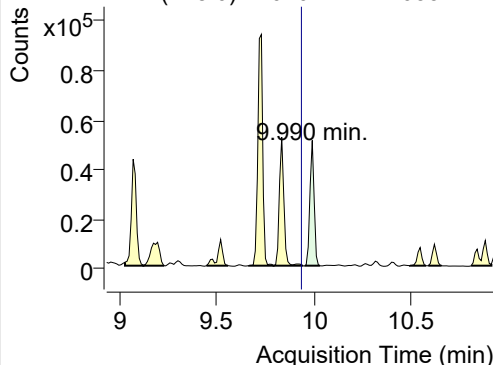


+ SIM (9.790-9.942 min, 15 scans) (**) 220707

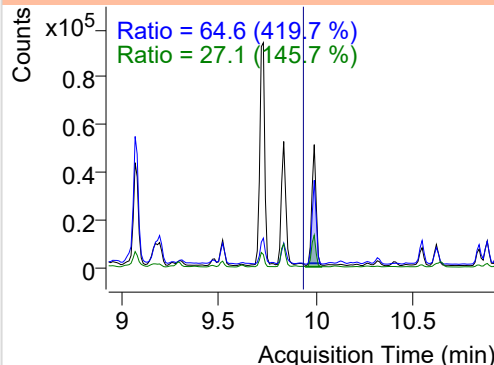


Anthracene

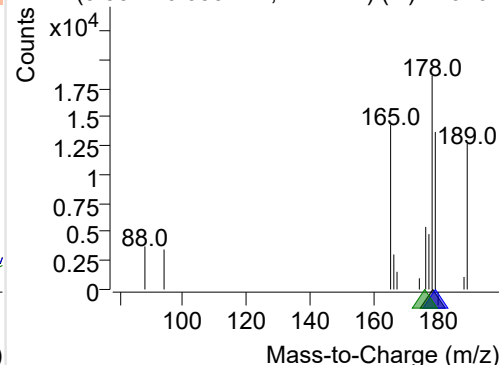
+ Selected Ion (178.0) 220707-PAHs-033.D



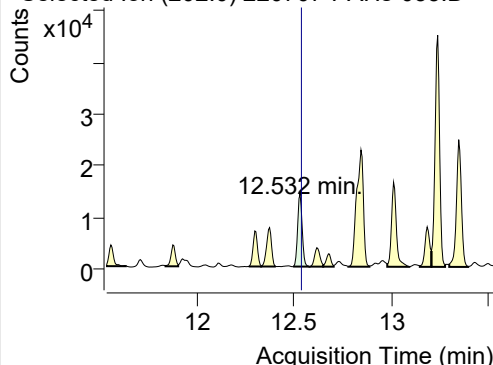
178.0, 179.0, 176.0



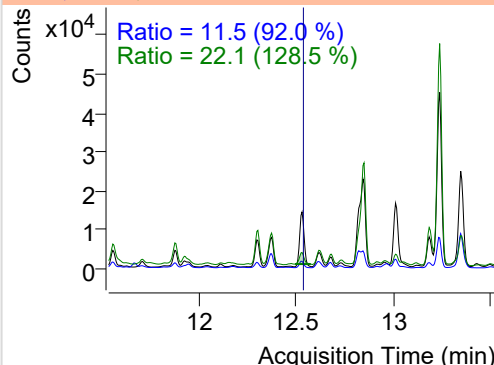
+ SIM (9.952-10.030 min, 7 scans) (**) 220707

**Fluoranthene**

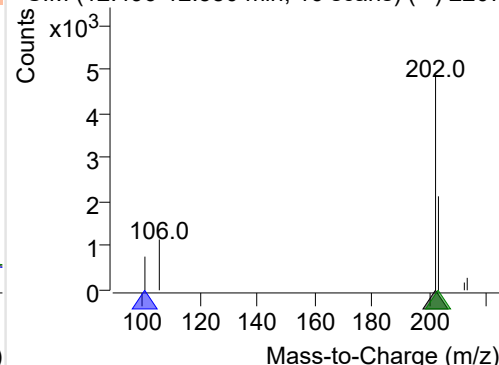
+ Selected Ion (202.0) 220707-PAHs-033.D



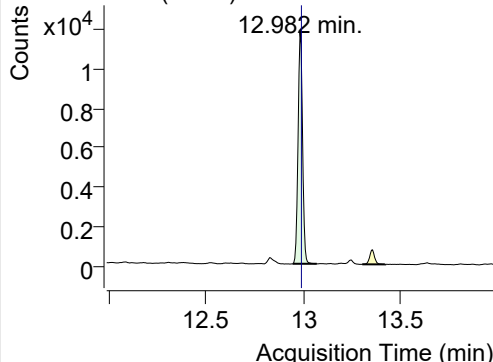
202.0, 101.0, 203.0



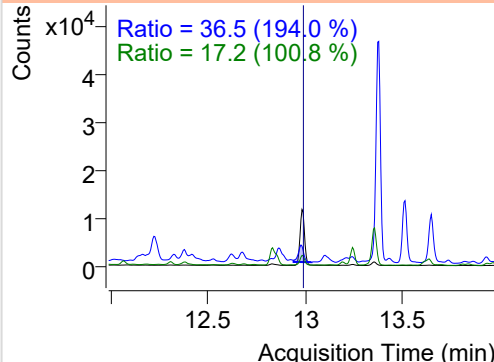
+ SIM (12.496-12.580 min, 16 scans) (**) 2207

**LSS-D10-Pyrene**

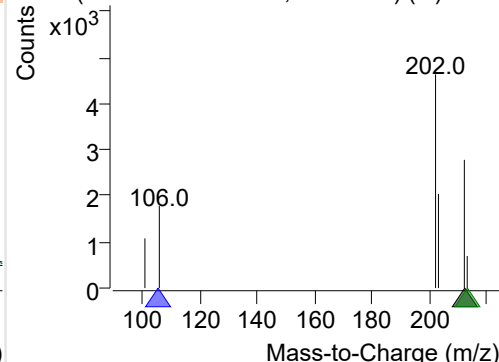
+ Selected Ion (212.0) 220707-PAHs-033.D



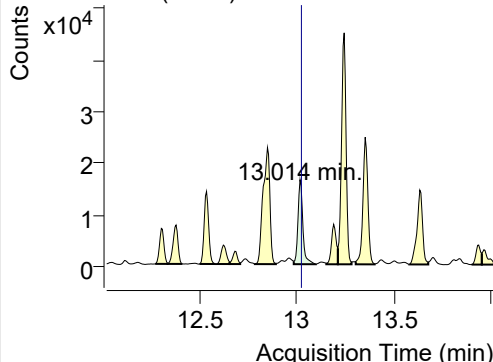
212.0, 106.0, 213.0



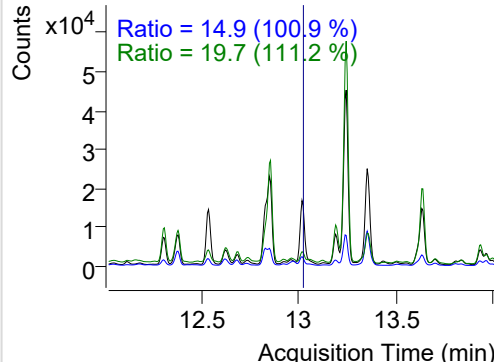
+ SIM (12.945-13.068 min, 22 scans) (**) 2207

**Pyrene**

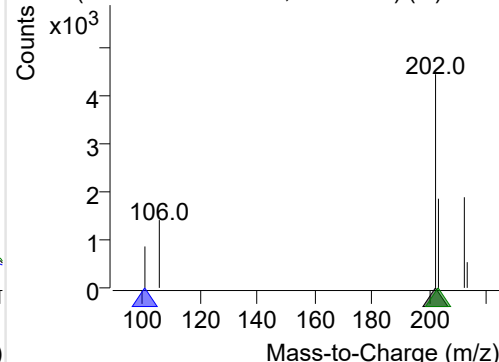
+ Selected Ion (202.0) 220707-PAHs-033.D



202.0, 101.0, 203.0



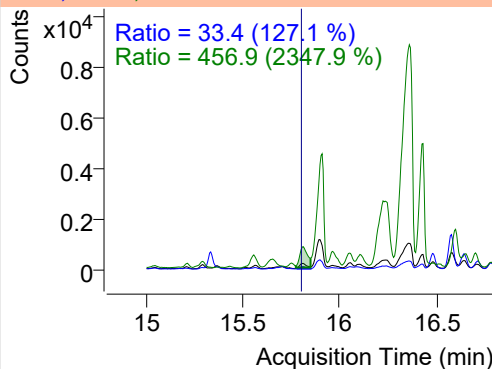
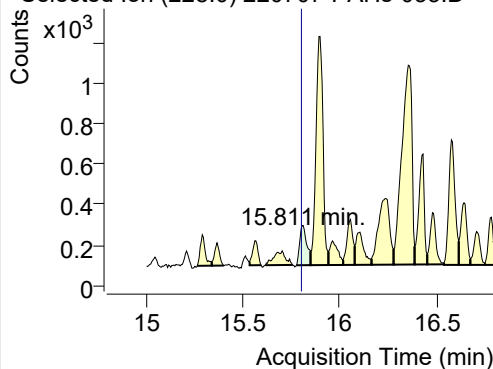
+ SIM (12.982-13.095 min, 22 scans) (**) 2207



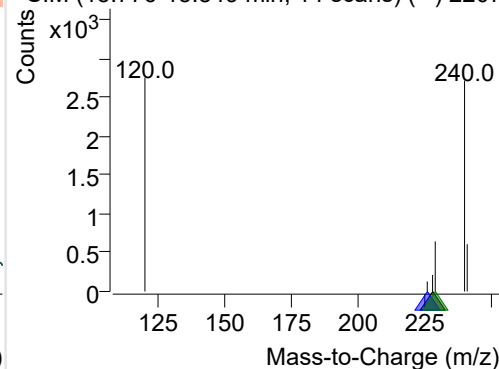
Benz(a)anthracene

+ Selected Ion (228.0) 220707-PAHs-033.D

228.0, 226.0, 229.0

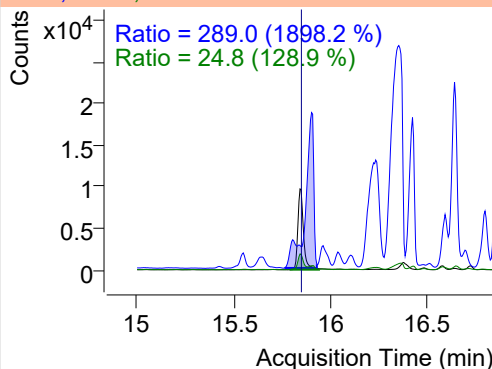
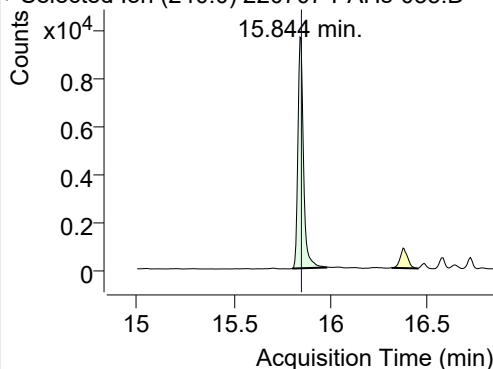


+ SIM (15.776-15.849 min, 14 scans) (**) 2207

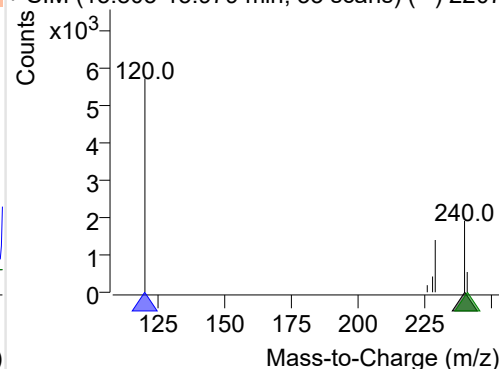
**IS-D12-Chrysene**

+ Selected Ion (240.0) 220707-PAHs-033.D

240.0, 120.0, 241.0

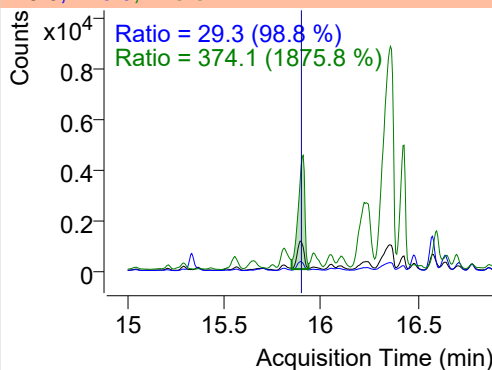
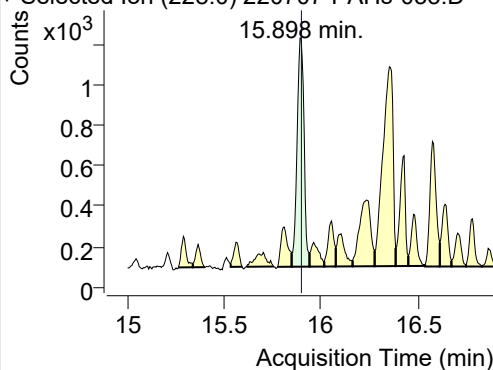


+ SIM (15.803-15.979 min, 33 scans) (**) 2207

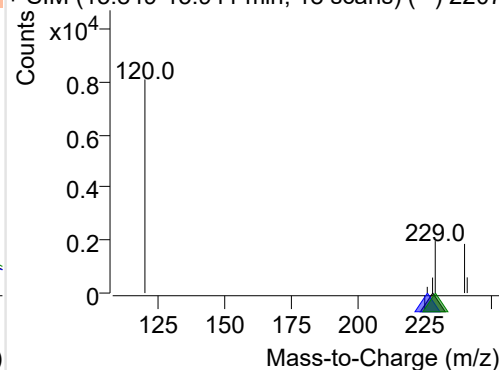
**Chrysene**

+ Selected Ion (228.0) 220707-PAHs-033.D

228.0, 226.0, 229.0

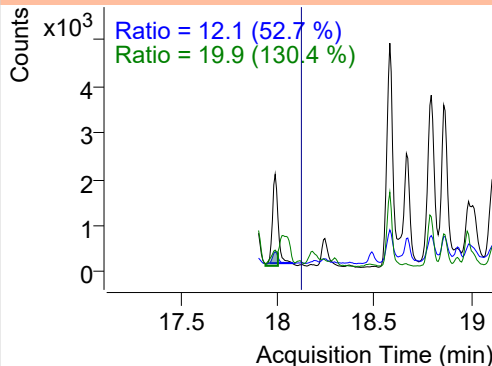
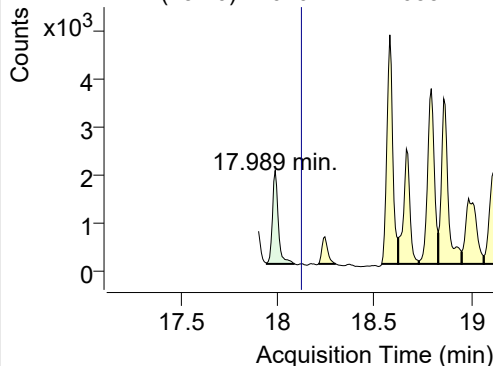


+ SIM (15.849-15.941 min, 18 scans) (**) 2207

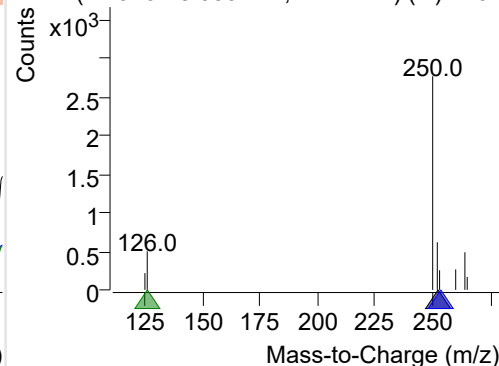
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 220707-PAHs-033.D

252.0, 253.0, 126.0



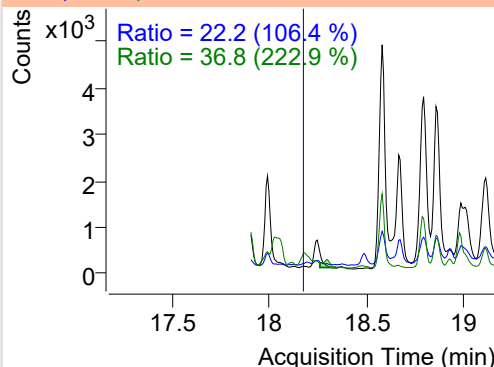
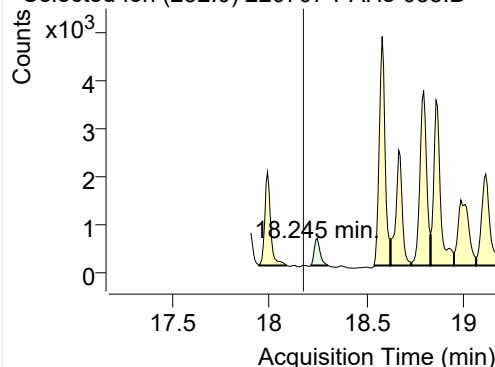
+ SIM (17.946-18.089 min, 21 scans) (**) 2207



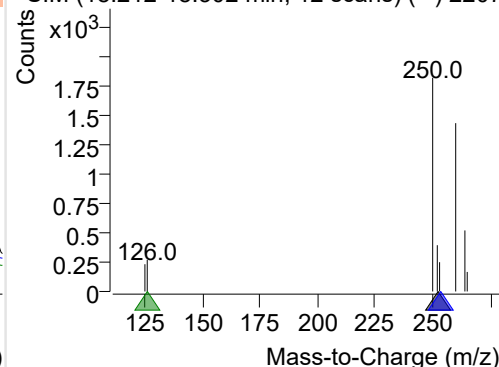
Benzo(k)fluoranthene

+ Selected Ion (252.0) 220707-PAHs-033.D

252.0, 253.0, 126.0

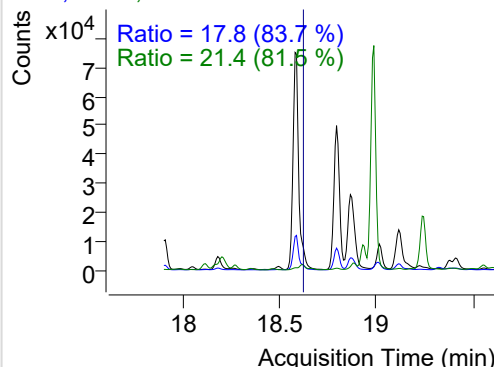
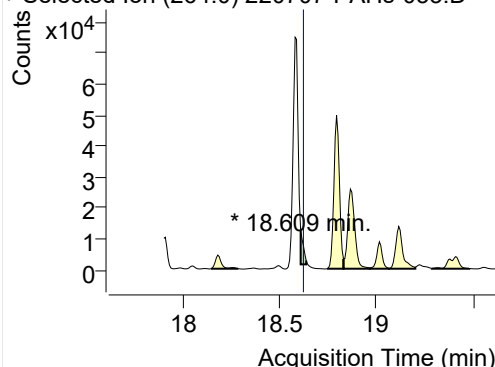


+ SIM (18.212-18.302 min, 12 scans) (**) 2207

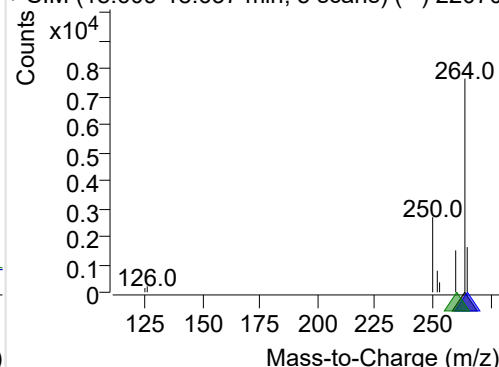
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 220707-PAHs-033.D

264.0, 265.0, 260.0

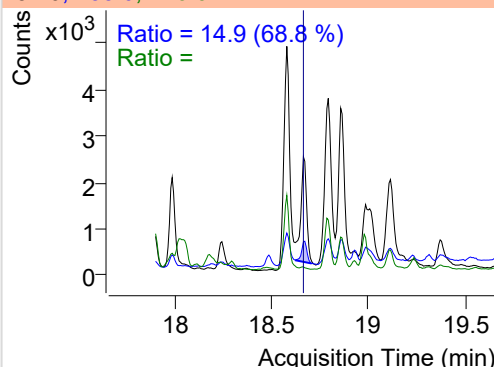
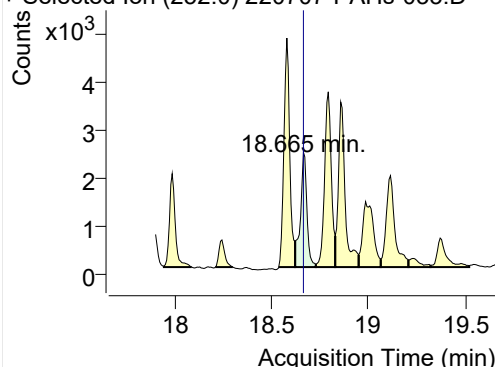


+ SIM (18.609-18.637 min, 5 scans) (**) 22070

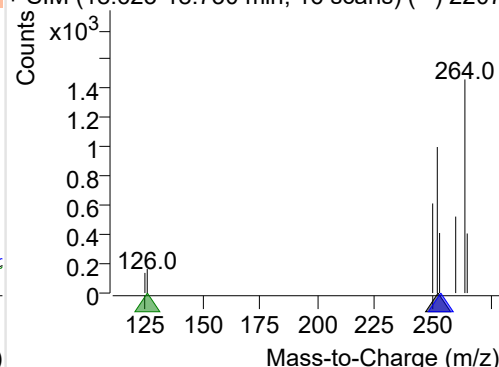
**Benzo(e)pyrene**

+ Selected Ion (252.0) 220707-PAHs-033.D

252.0, 253.0, 126.0

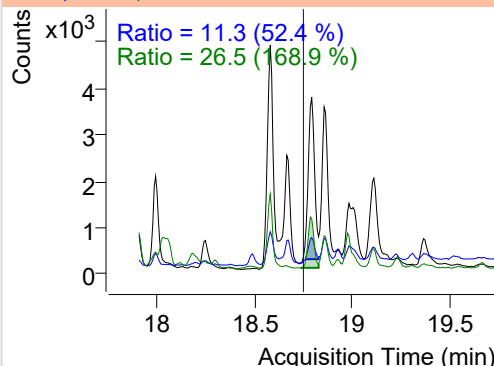
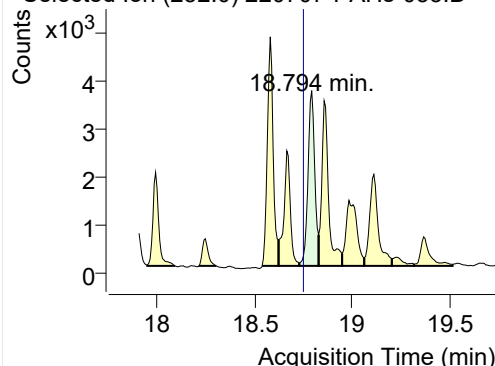


+ SIM (18.623-18.730 min, 16 scans) (**) 2207

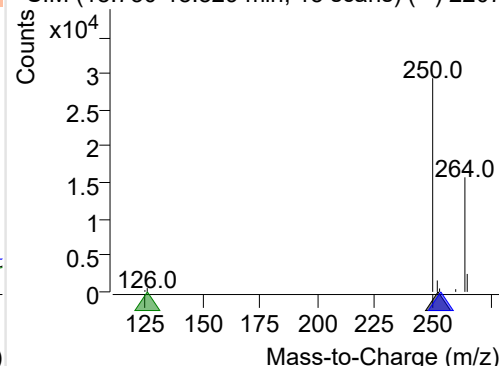
**Benzo(a)pyrene**

+ Selected Ion (252.0) 220707-PAHs-033.D

252.0, 253.0, 126.0

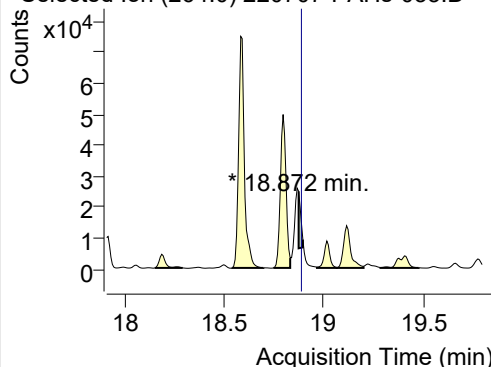


+ SIM (18.730-18.829 min, 15 scans) (**) 2207

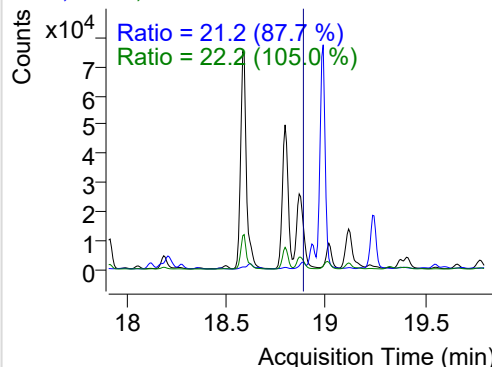


IS-D12-Perylene

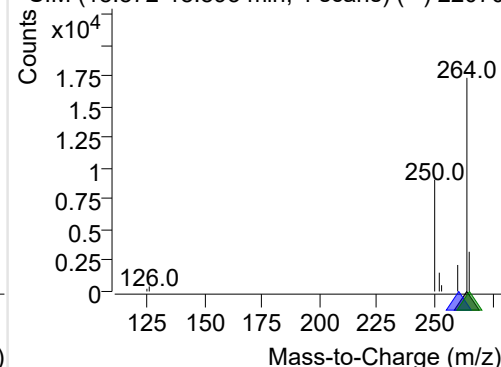
+ Selected Ion (264.0) 220707-PAHs-033.D



264.0, 260.0, 265.0

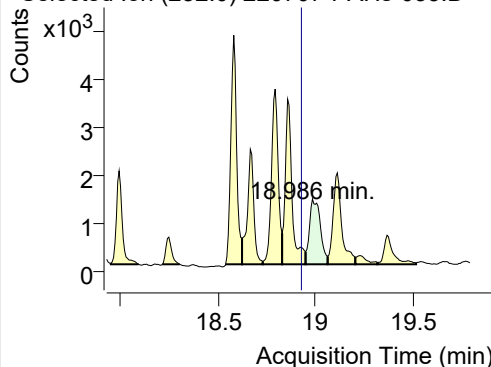


+ SIM (18.872-18.893 min, 4 scans) (**) 22070

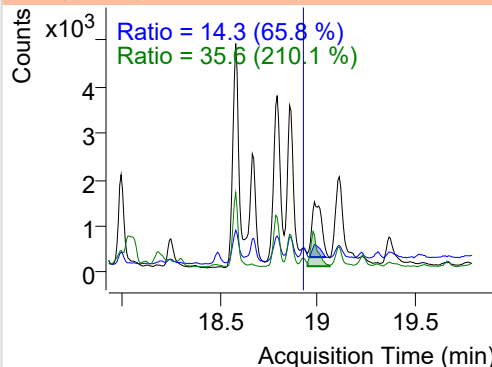


Perylene

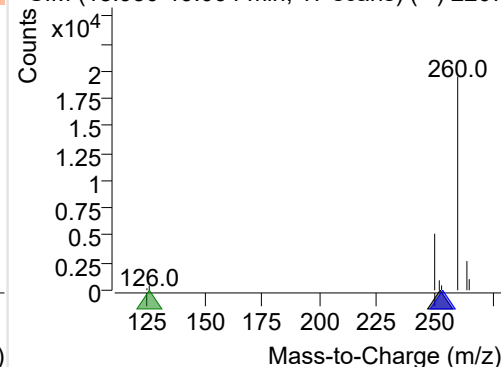
+ Selected Ion (252.0) 220707-PAHs-033.D



252.0, 253.0, 126.0

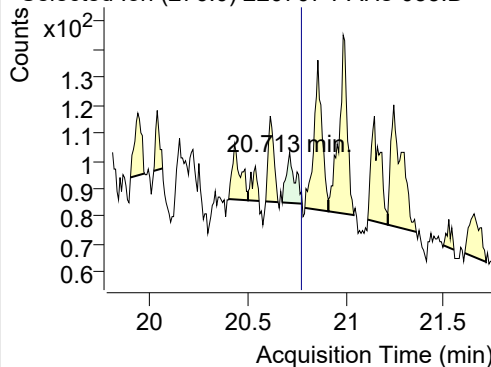


+ SIM (18.950-19.064 min, 17 scans) (**) 2207

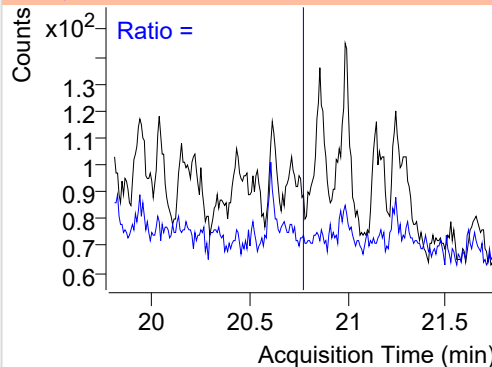


Indeno(1,2,3-c,d)pyrene

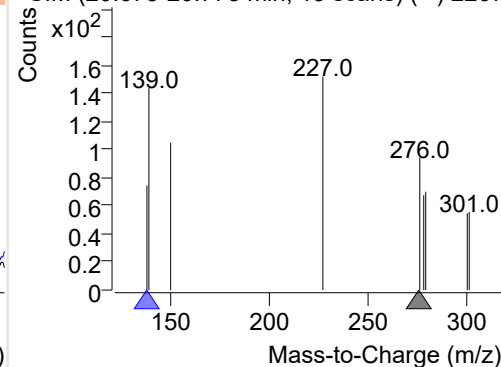
+ Selected Ion (276.0) 220707-PAHs-033.D



276.0, 138.0

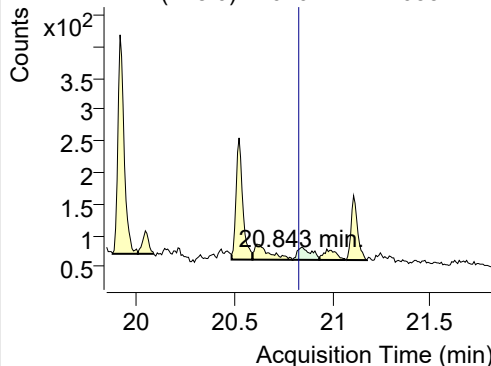


+ SIM (20.675-20.778 min, 13 scans) (**) 2207

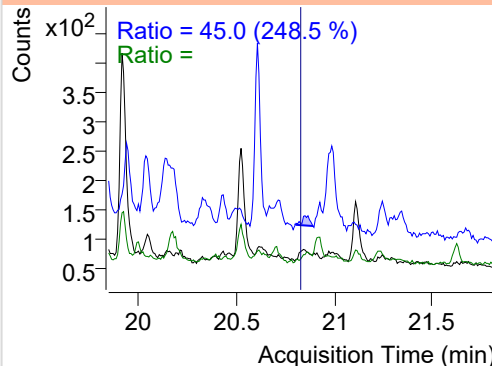


Dibenz(a,h)anthracene

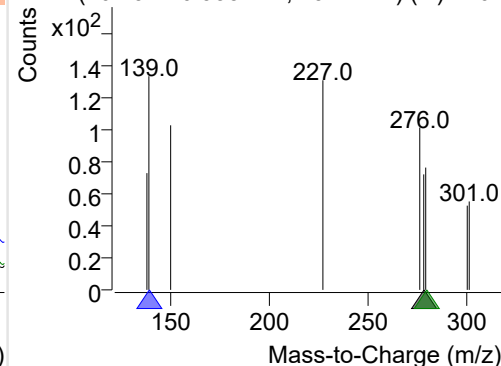
+ Selected Ion (278.0) 220707-PAHs-033.D



278.0, 139.0, 279.0



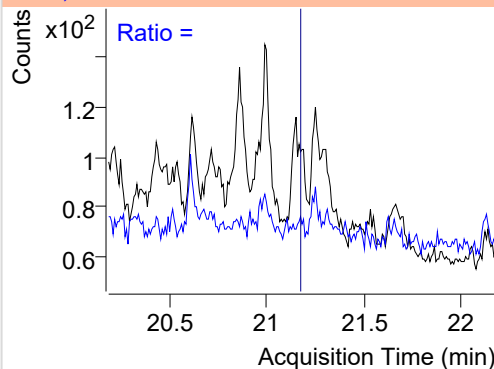
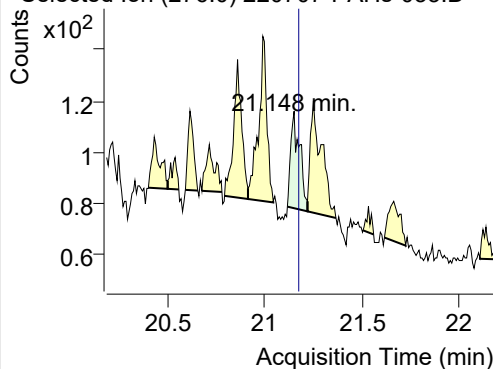
+ SIM (20.797-20.935 min, 19 scans) (**) 2207



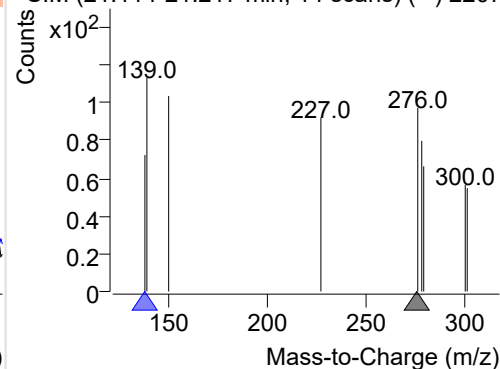
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 220707-PAHs-033.D

276.0, 138.0

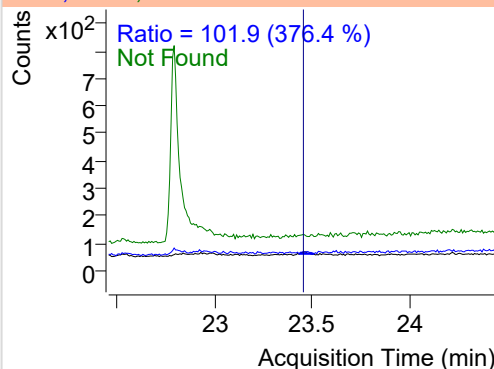
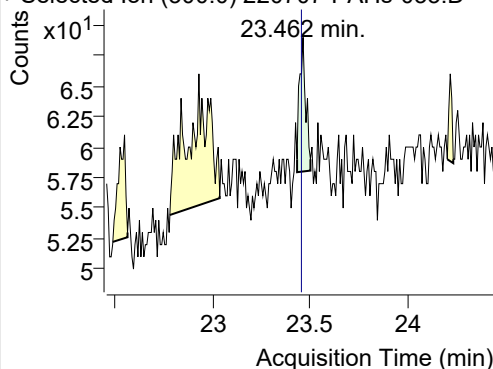


+ SIM (21.114-21.217 min, 14 scans) (**) 2207

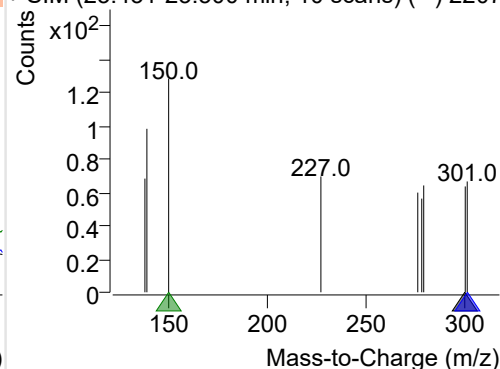
**Coronene**

+ Selected Ion (300.0) 220707-PAHs-033.D

300.0, 301.0, 150.0



+ SIM (23.431-23.500 min, 10 scans) (**) 2207



Quantitative Analysis Sample Based Report

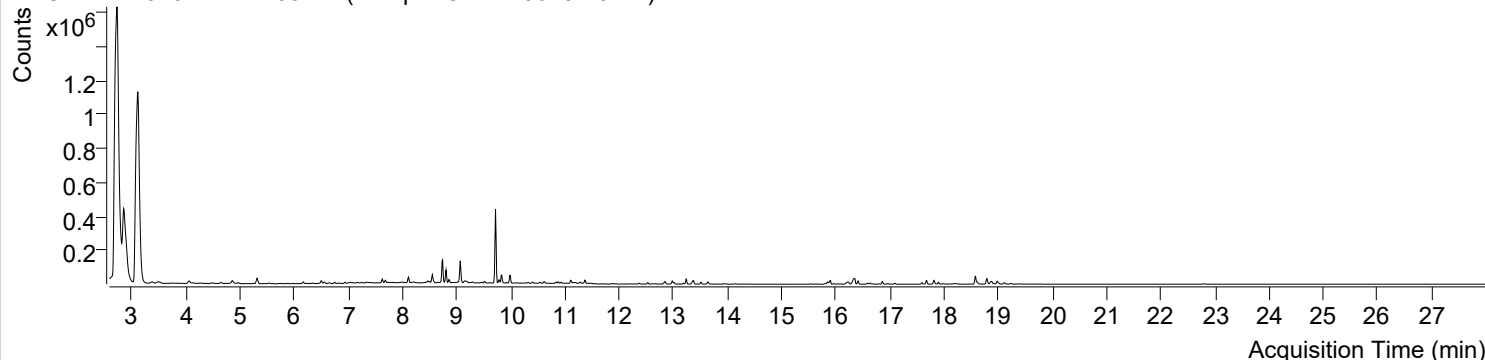


Trusted Answers

| | | | |
|---------------------------|--|-----------------------|-------------------------|
| Batch Data Path File Name | D:\MassHunter\GCMS\1\data\PAHs\220707-PAHs-Sample\QuantResults\220707-PAHs-Quant.batch.bin | | |
| Analysis Time Stamp | 2022-07-09 오전 11:12:52 | Analyst Name | DESKTOP-86B7UPG\5975MS |
| Report Generation Time | 2022-07-09 오전 11:13:20 | Report Generator Name | DESKTOP-86B7UPG\5975MS |
| Calibration Last Update | 2022-07-09 오전 11:04:15 | Batch State | Processed |
| Analyze Quant Version | 10.2 | Report Quant Version | 10.2 |
| Acq. Date-Time | 2022-07-08 오전 6:25:55 | Data File | 220707-PAHs-034.D |
| Type | Sample | Name | Sample-Gas-220628-10DIL |
| Dil. | 1 | Acq. Method File | PAHs 19mix-Method |

Sample Chromatogram

+ TIC SIM 220707-PAHs-034.D (Sample-Gas-220628-10DIL)

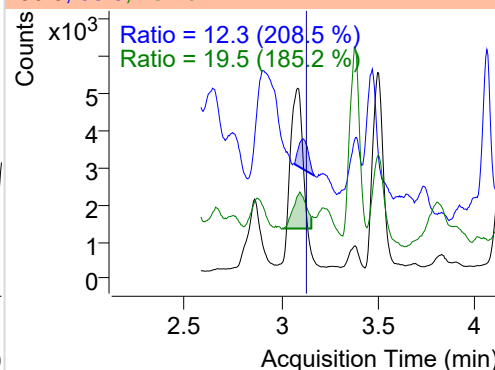
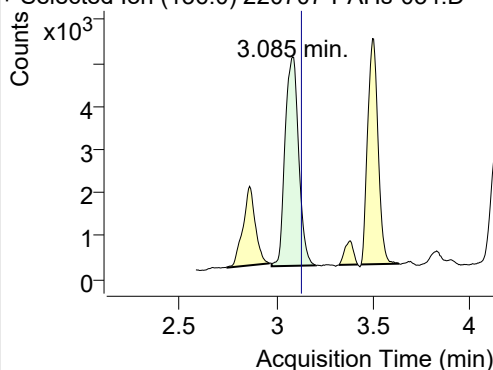


| Name | RT | Transition | Resp. | Height | Final Conc. Units | Ratio |
|-------------------------|--------|------------|---------|-----------|-------------------|-------|
| IS-D8-Naphthalene | 3.085 | 136.0 | 23589 | 4836.99 | ND ng/ml | 19.5 |
| Naphthalene | 3.112 | 128.0 | 4297774 | 904995.50 | ND ng/ml | 12.9 |
| Acenaphthylene | 6.167 | 152.0 | 14785 | 7610.31 | ND ng/ml | 20.7 |
| IS-D10-Acenaphthene | 6.498 | 164.0 | 16008 | 7915.36 | ND ng/ml | 90.8 |
| Acenaphthene | 6.558 | 154.0 | 4784 | 2407.54 | ND ng/ml | 117.4 |
| LSS-D10-Fluorene | 7.627 | 176.0 | 15078 | 9368.71 | ND ng/ml | 94.6 |
| Fluorene | 7.680 | 166.0 | 12082 | 6732.26 | ND ng/ml | 111.5 |
| IS-D10-Phenanthrene | 9.780 | 188.0 | 25003 | 13897.72 | ND ng/ml | 24.1 |
| Phenanthrene | 9.832 | 178.0 | 53173 | 30601.21 | ND ng/ml | 19.6 |
| Anthracene | 9.927 | 178.0 | 3695 | 2105.21 | ND ng/ml | 22.3 |
| Fluoranthene | 12.526 | 202.0 | 10780 | 6301.88 | ND ng/ml | 19.5 |
| LSS-D10-Pyrene | 12.981 | 212.0 | 21327 | 13254.76 | ND ng/ml | 20.3 |
| Pyrene | 13.014 | 202.0 | 12013 | 7021.68 | ND ng/ml | 16.3 |
| Benz(a)anthracene | 15.806 | 228.0 | 460 | 187.93 | ND ng/ml | 27.5 |
| IS-D12-Chrysene | 15.843 | 240.0 | 17581 | 8797.96 | ND ng/ml | 19.2 |
| Chrysene | 15.898 | 228.0 | 1649 | 741.77 | ND ng/ml | 27.2 |
| Benzo(b)fluoranthene | 18.238 | 252.0 | 476 | 210.27 | ND ng/ml | 32.8 |
| Benzo(k)fluoranthene | 18.238 | 252.0 | 476 | 210.27 | ND ng/ml | 32.8 |
| SS-D12-Benzo(e)pyrene | 18.608 | 264.0 | 8623 | 6184.97 | ND ng/ml | 30.2 |
| Benzo(e)pyrene | 18.665 | 252.0 | 451 | 210.00 | ND ng/ml | |
| Benzo(a)pyrene | 18.786 | 252.0 | 3219 | 1260.34 | ND ng/ml | 10.3 |
| IS-D12-Perylene | 18.879 | 264.0 | 10174 | 7933.90 | ND ng/ml | 25.7 |
| Perylene | 18.858 | 252.0 | 2686 | 1016.68 | ND ng/ml | 9.7 |
| Indeno(1,2,3-c,d)pyrene | 20.850 | 276.0 | 22 | 9.07 | ND ng/ml | |
| Dibenz(a,h)anthracene | 20.850 | 278.0 | 23 | 8.01 | ND ng/ml | 262.1 |
| Benzo(g,h,i)perylene | 21.171 | 276.0 | 30 | 9.64 | ND ng/ml | |
| Coronene | 23.454 | 300.0 | 15 | 7.53 | ND ng/ml | |

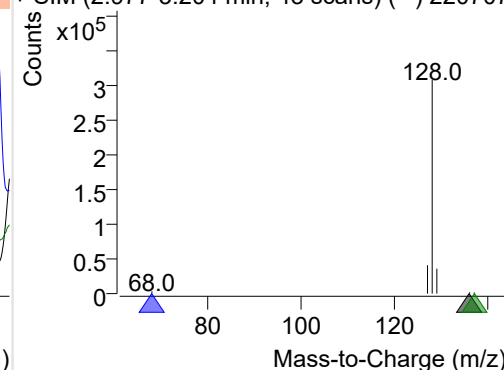
IS-D8-Naphthalene

+ Selected Ion (136.0) 220707-PAHs-034.D

136.0, 68.0, 137.0

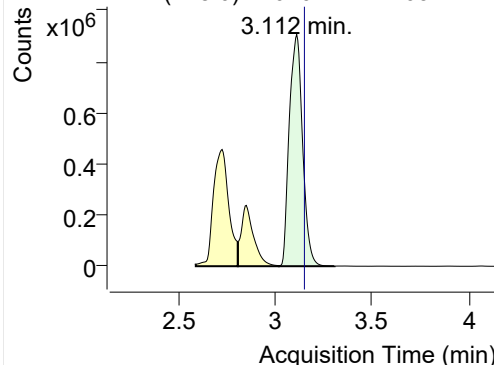


+ SIM (2.977-3.204 min, 43 scans) (**) 220707

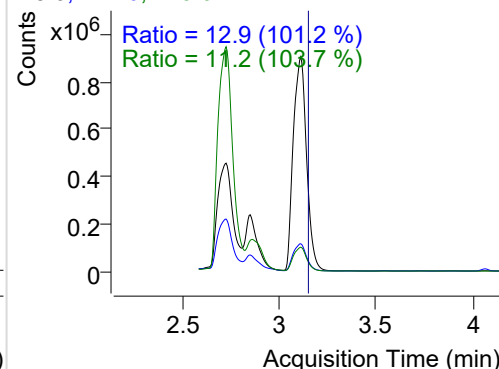


Naphthalene

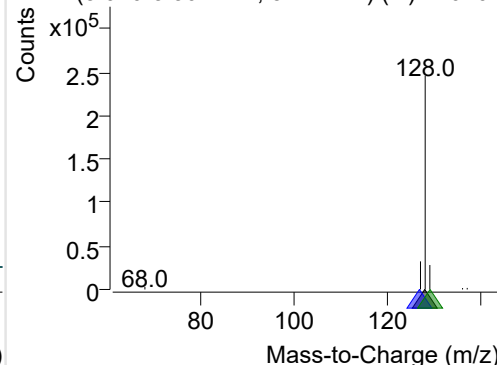
+ Selected Ion (128.0) 220707-PAHs-034.D



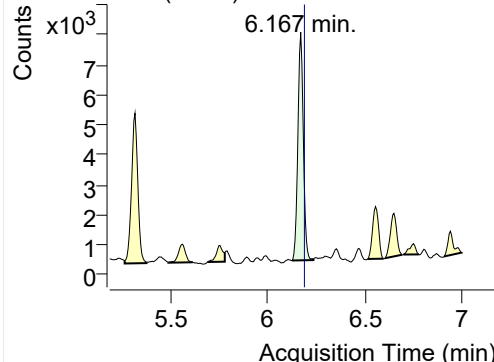
128.0, 127.0, 129.0



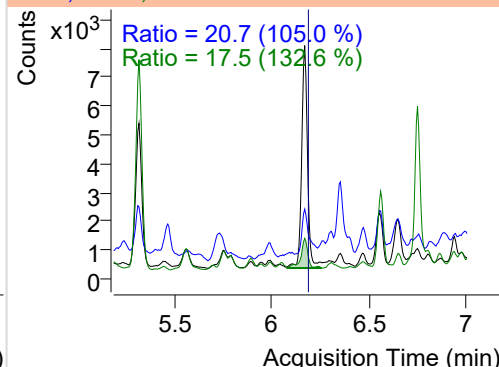
+ SIM (3.020-3.307 min, 54 scans) (**) 220707

**Acenaphthylene**

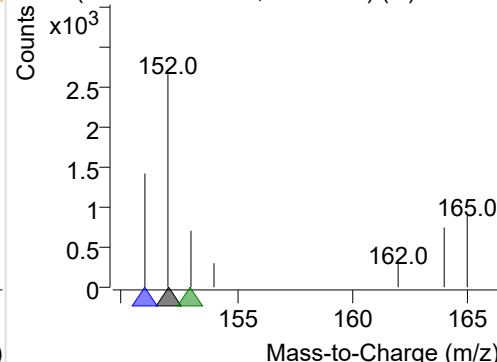
+ Selected Ion (152.0) 220707-PAHs-034.D



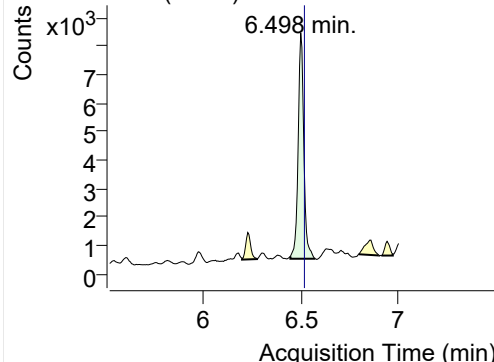
152.0, 151.0, 153.0



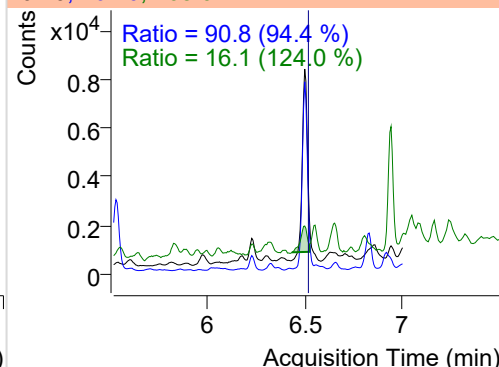
+ SIM (6.122-6.232 min, 19 scans) (**) 220707

**IS-D10-Acenaphthene**

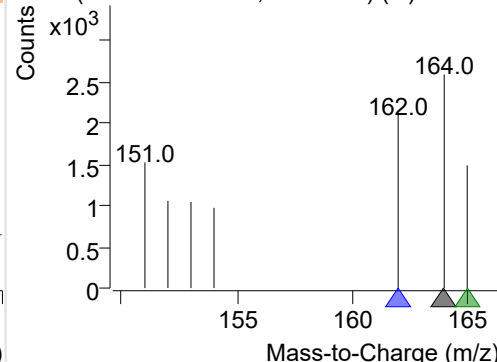
+ Selected Ion (164.0) 220707-PAHs-034.D



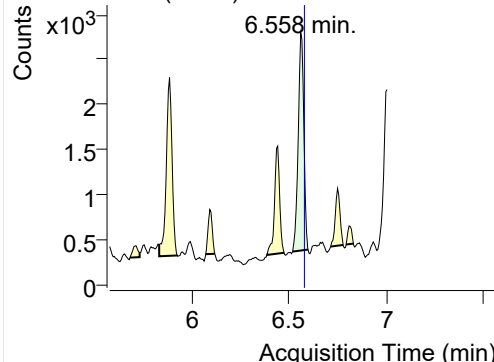
164.0, 162.0, 165.0



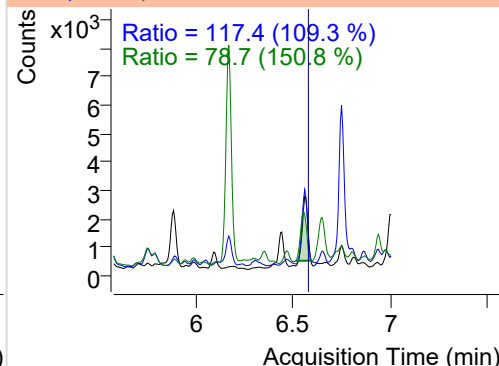
+ SIM (6.445-6.573 min, 22 scans) (**) 220707

**Acenaphthene**

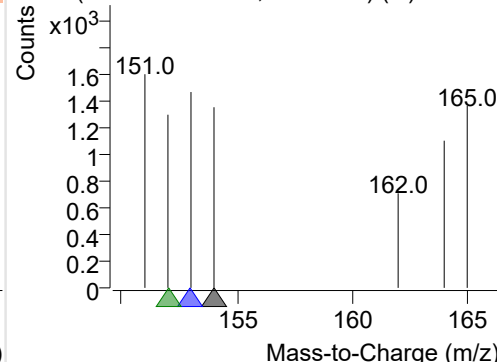
+ Selected Ion (154.0) 220707-PAHs-034.D



154.0, 153.0, 152.0

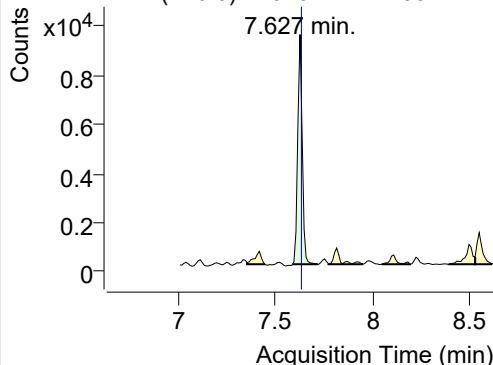


+ SIM (6.516-6.595 min, 14 scans) (**) 220707

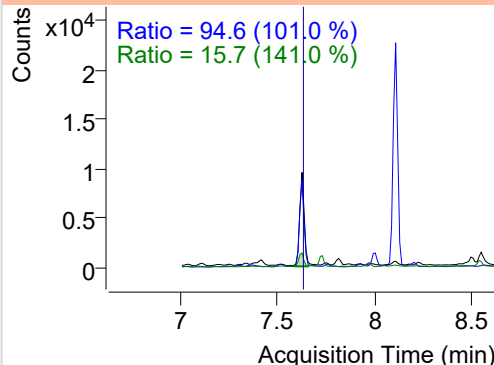


LSS-D10-Fluorene

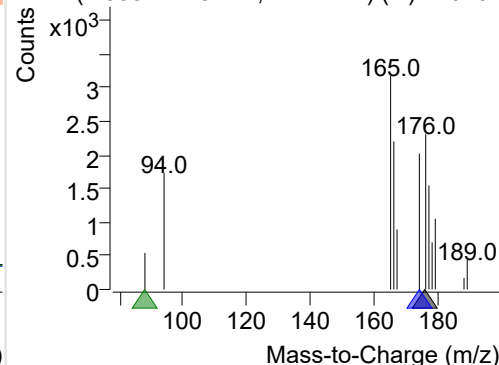
+ Selected Ion (176.0) 220707-PAHs-034.D



176.0, 174.0, 88.0

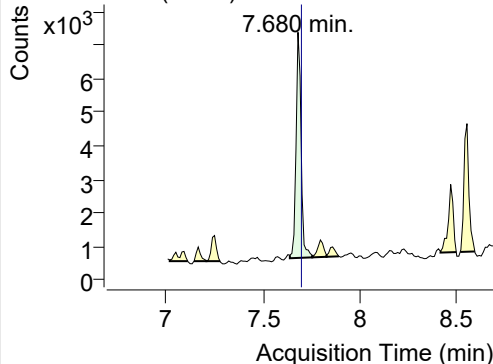


+ SIM (7.588-7.718 min, 12 scans) (**) 220707

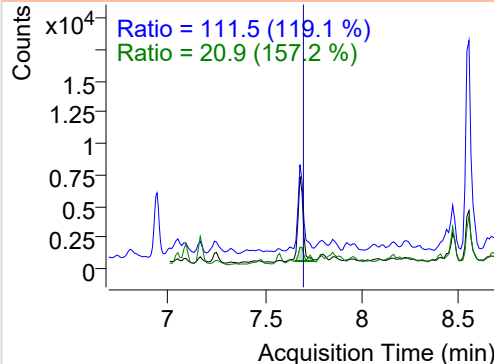


Fluorene

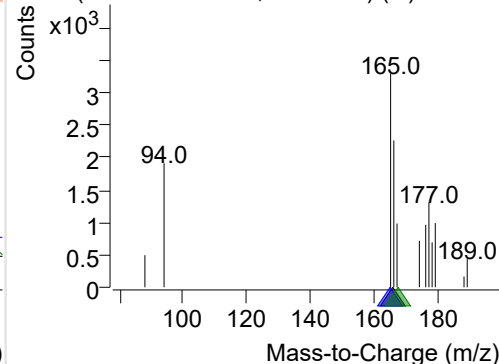
+ Selected Ion (166.0) 220707-PAHs-034.D



166.0, 165.0, 167.0

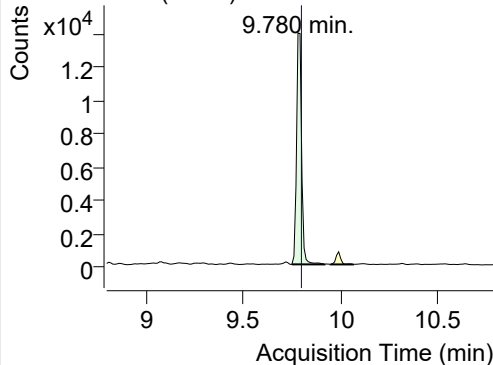


+ SIM (7.638-7.753 min, 12 scans) (**) 220707

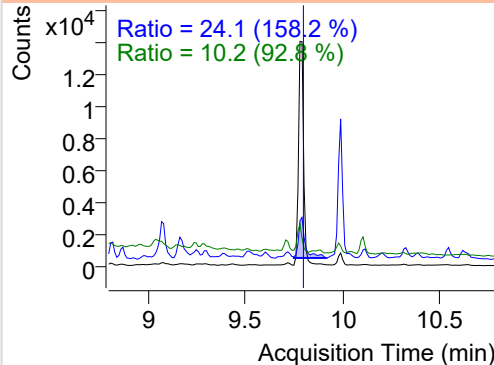


IS-D10-Phenanthrene

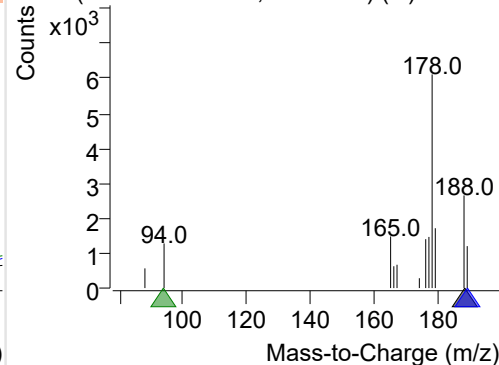
+ Selected Ion (188.0) 220707-PAHs-034.D



188.0, 189.0, 94.0

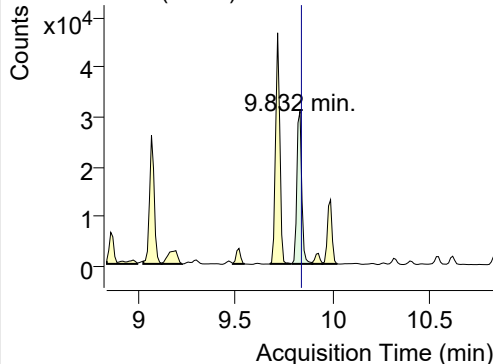


+ SIM (9.748-9.916 min, 16 scans) (**) 220707

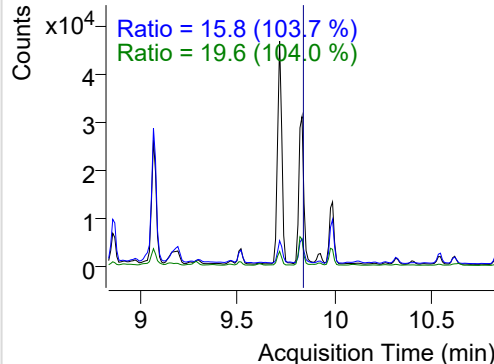


Phenanthrene

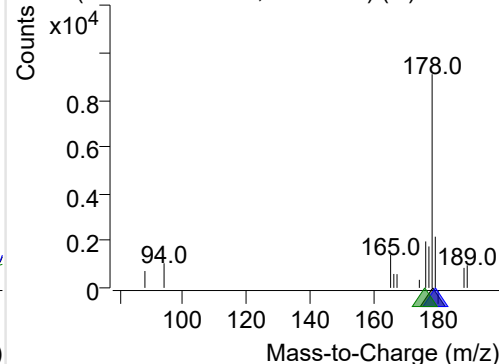
+ Selected Ion (178.0) 220707-PAHs-034.D



178.0, 179.0, 176.0

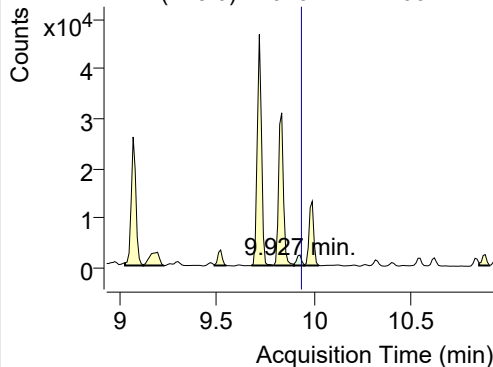


+ SIM (9.791-9.895 min, 10 scans) (**) 220707

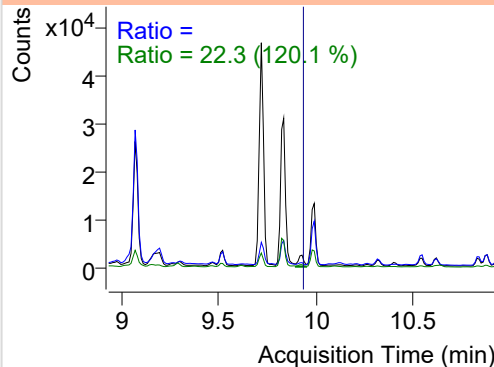


Anthracene

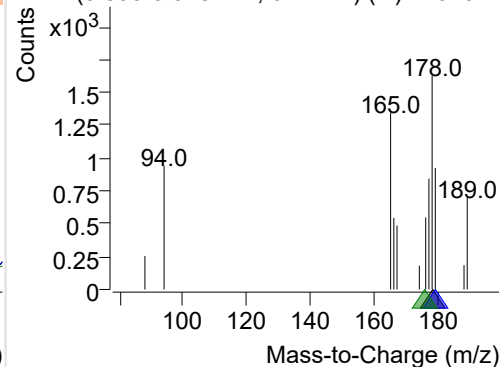
+ Selected Ion (178.0) 220707-PAHs-034.D



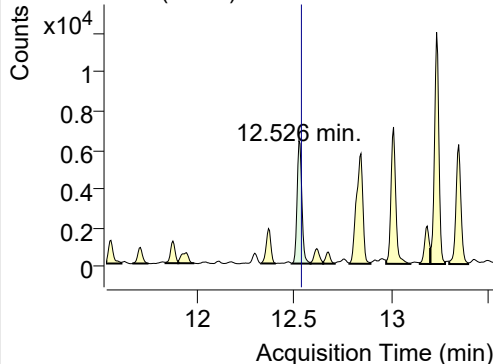
178.0, 179.0, 176.0



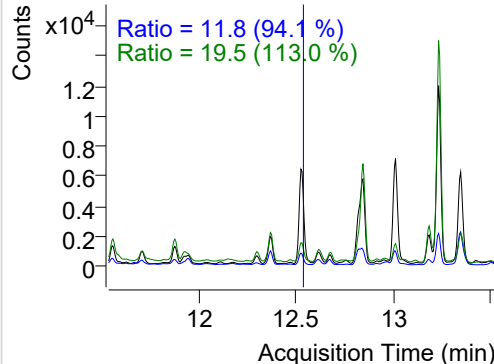
+ SIM (9.895-9.948 min, 6 scans) (**) 220707-I

**Fluoranthene**

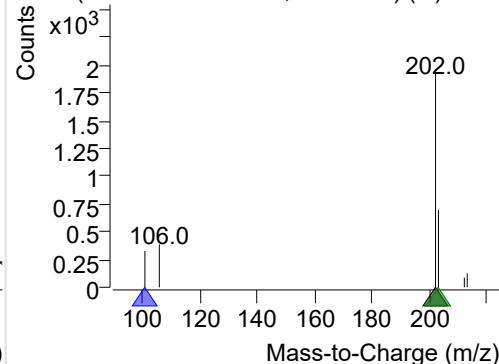
+ Selected Ion (202.0) 220707-PAHs-034.D



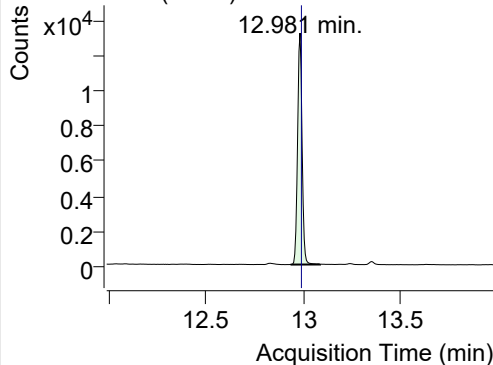
202.0, 101.0, 203.0



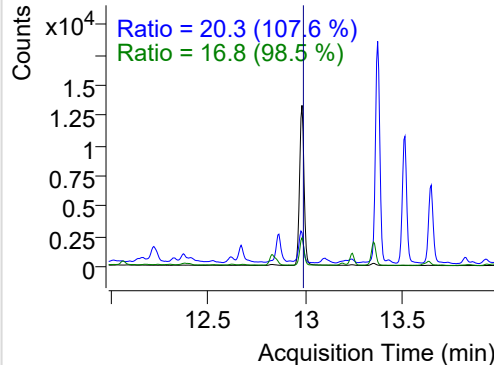
+ SIM (12.488-12.586 min, 19 scans) (**) 2207

**LSS-D10-Pyrene**

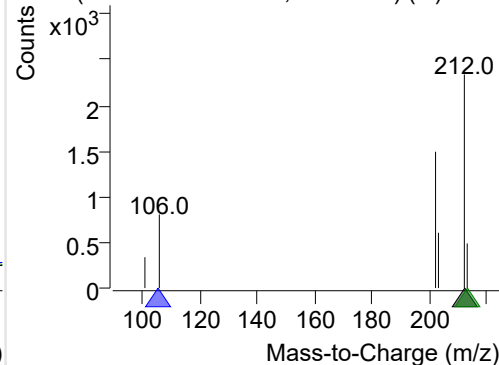
+ Selected Ion (212.0) 220707-PAHs-034.D



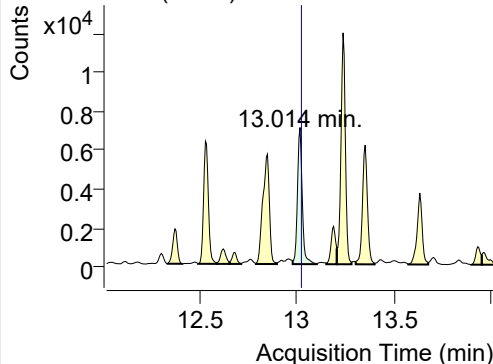
212.0, 106.0, 213.0



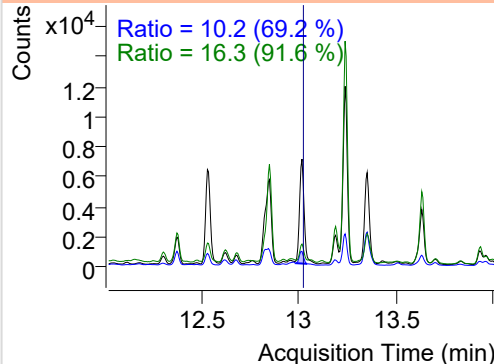
+ SIM (12.933-13.084 min, 29 scans) (**) 2207

**Pyrene**

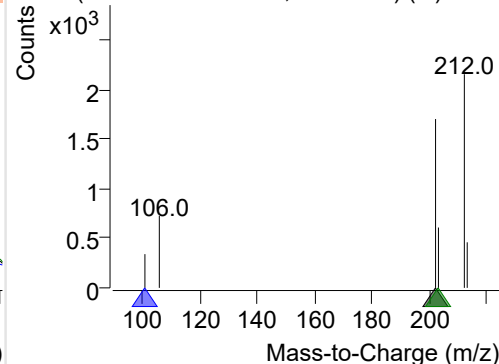
+ Selected Ion (202.0) 220707-PAHs-034.D



202.0, 101.0, 203.0



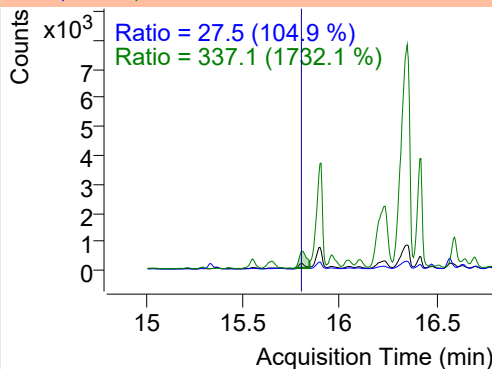
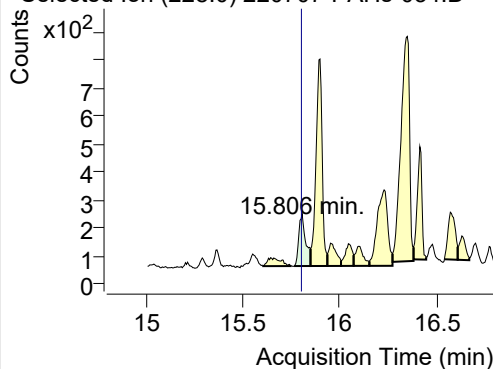
+ SIM (12.976-13.101 min, 24 scans) (**) 2207



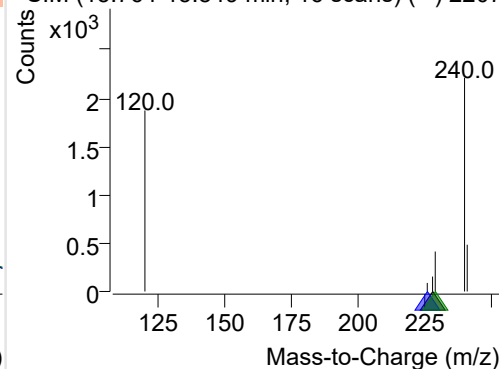
Benz(a)anthracene

+ Selected Ion (228.0) 220707-PAHs-034.D

228.0, 226.0, 229.0

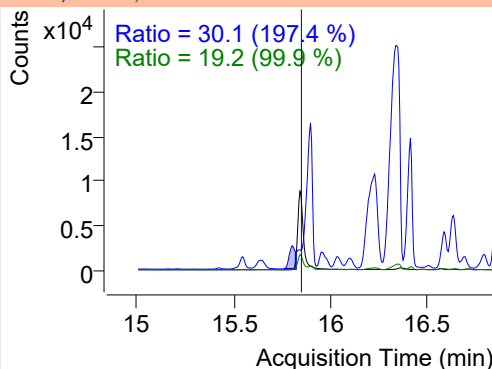
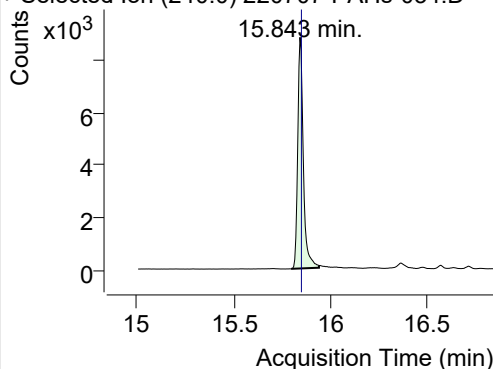


+ SIM (15.764-15.849 min, 16 scans) (**) 2207

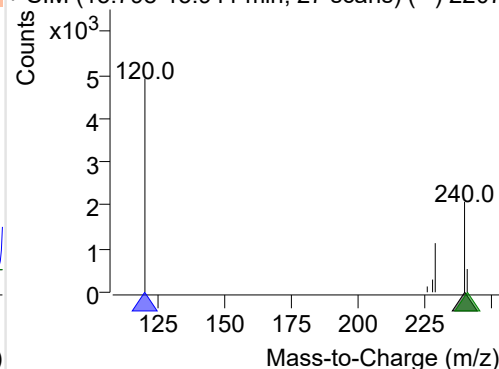
**IS-D12-Chrysene**

+ Selected Ion (240.0) 220707-PAHs-034.D

240.0, 120.0, 241.0

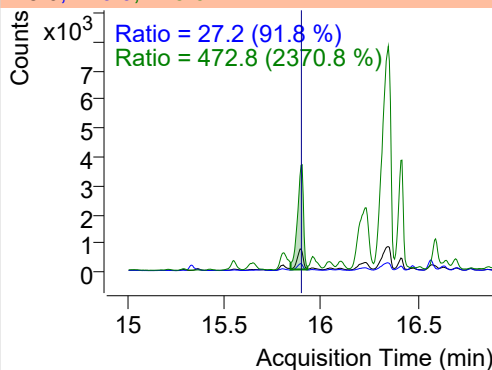
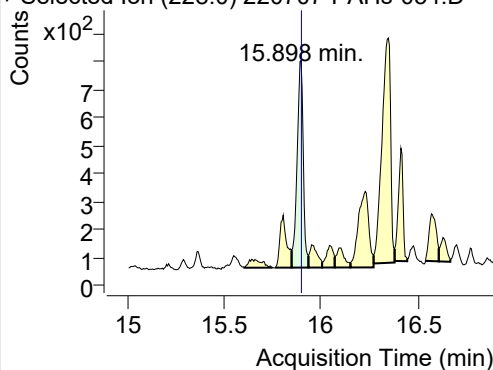


+ SIM (15.798-15.941 min, 27 scans) (**) 2207

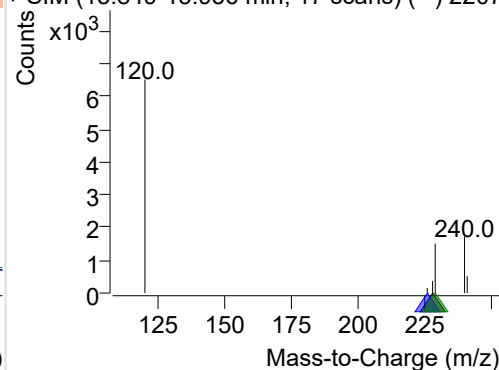
**Chrysene**

+ Selected Ion (228.0) 220707-PAHs-034.D

228.0, 226.0, 229.0

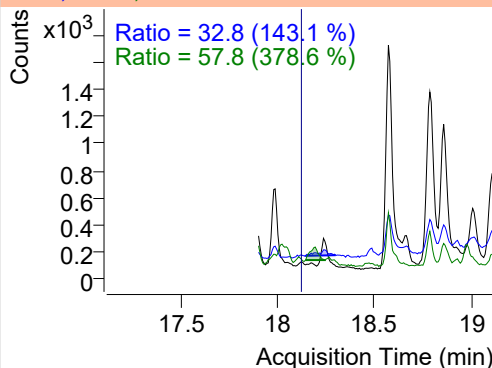
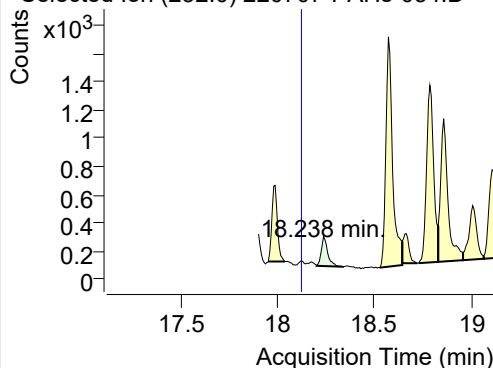


+ SIM (15.849-15.936 min, 17 scans) (**) 2207

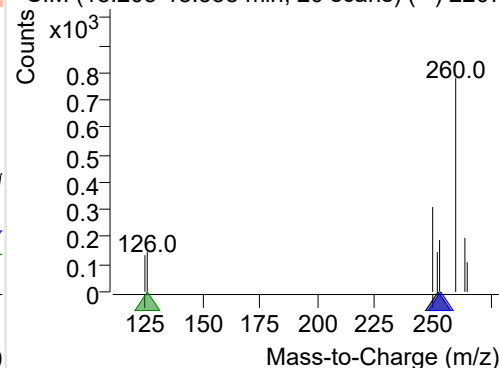
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 220707-PAHs-034.D

252.0, 253.0, 126.0



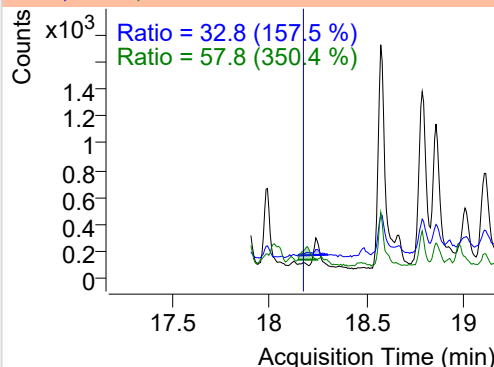
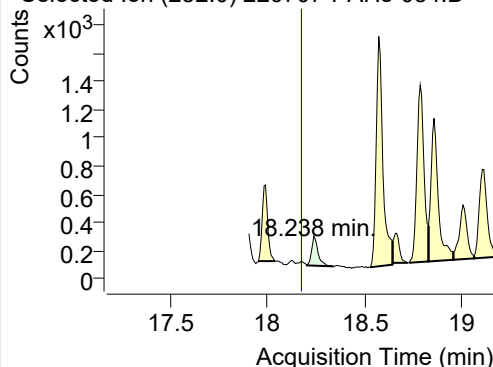
+ SIM (18.203-18.338 min, 20 scans) (**) 2207



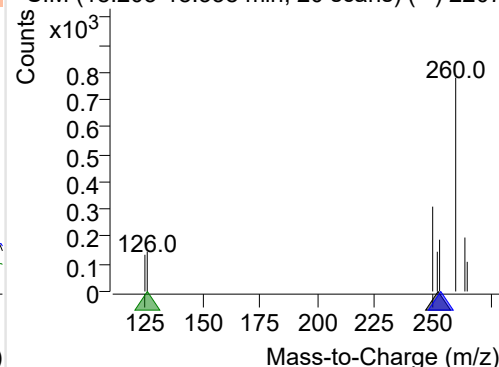
Benzo(k)fluoranthene

+ Selected Ion (252.0) 220707-PAHs-034.D

252.0, 253.0, 126.0

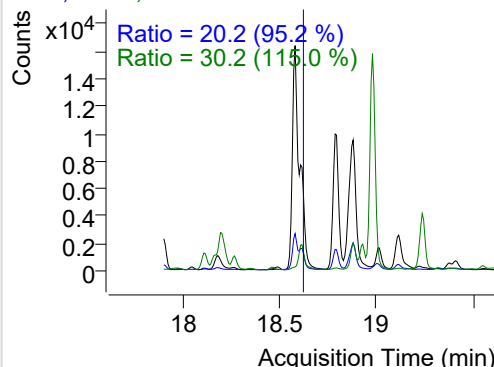
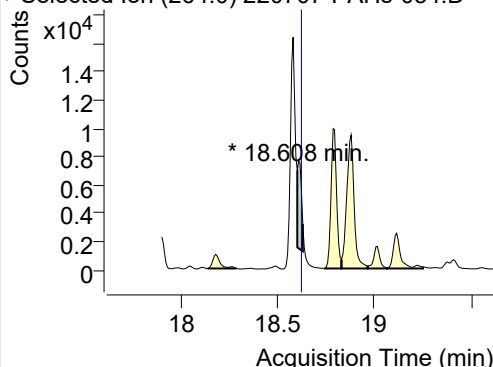


+ SIM (18.203-18.338 min, 20 scans) (**) 2207

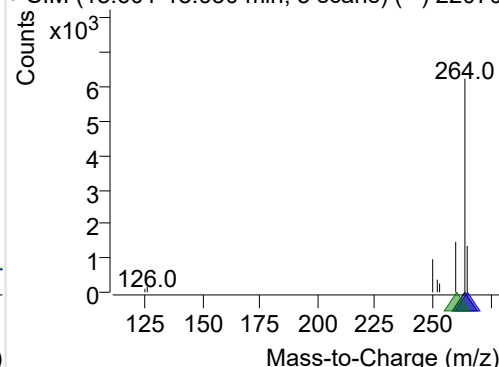
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 220707-PAHs-034.D

264.0, 265.0, 260.0

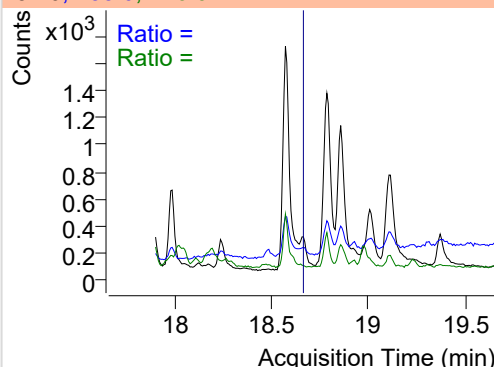
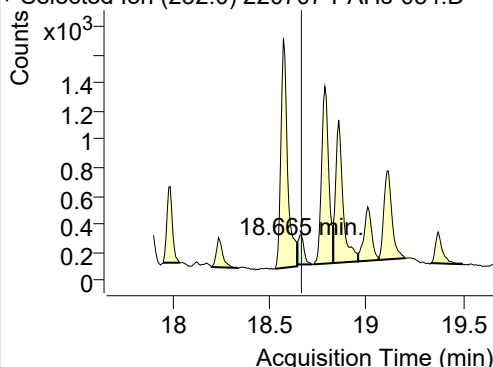


+ SIM (18.601-18.630 min, 5 scans) (**) 22070

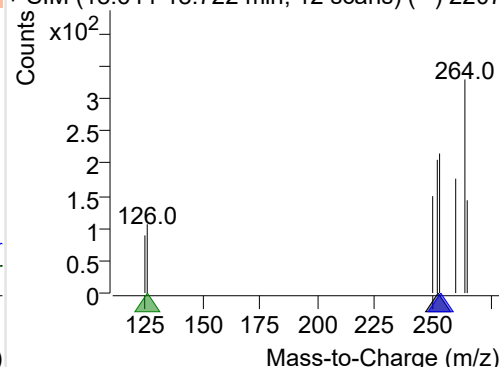
**Benzo(e)pyrene**

+ Selected Ion (252.0) 220707-PAHs-034.D

252.0, 253.0, 126.0

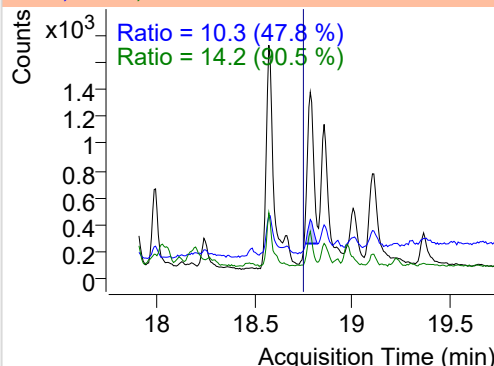
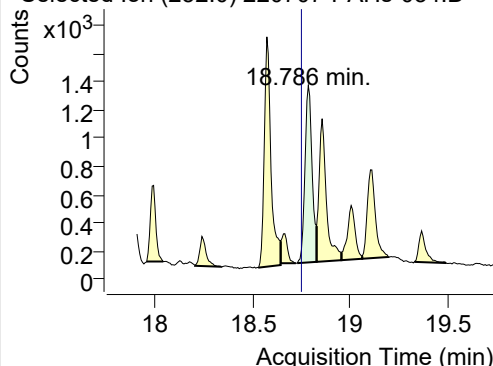


+ SIM (18.644-18.722 min, 12 scans) (**) 2207

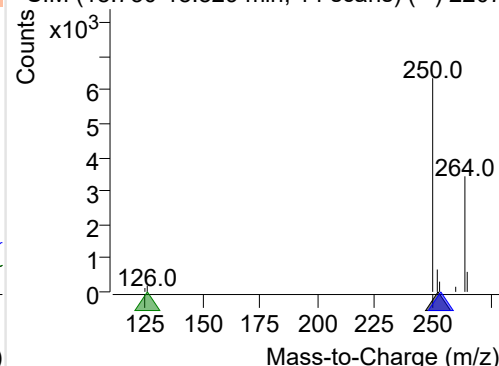
**Benzo(a)pyrene**

+ Selected Ion (252.0) 220707-PAHs-034.D

252.0, 253.0, 126.0

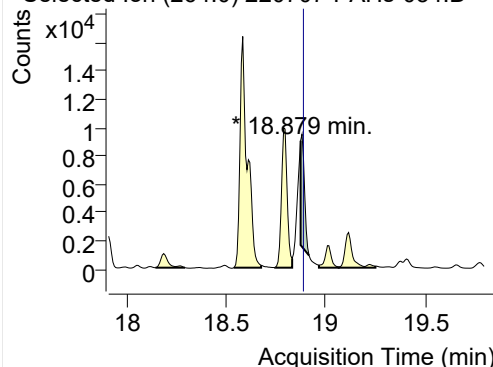


+ SIM (18.730-18.829 min, 14 scans) (**) 2207

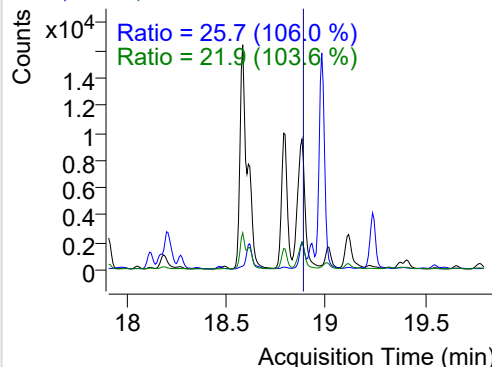


IS-D12-Perylene

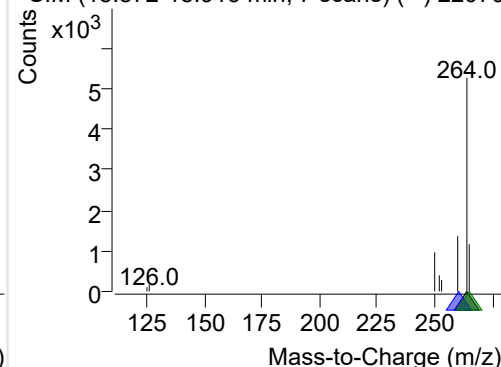
+ Selected Ion (264.0) 220707-PAHs-034.D



264.0, 260.0, 265.0

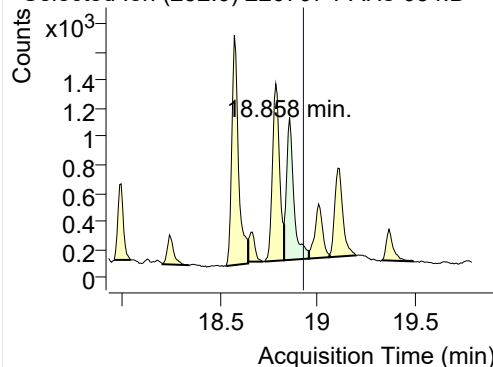


+ SIM (18.872-18.915 min, 7 scans) (**) 22070

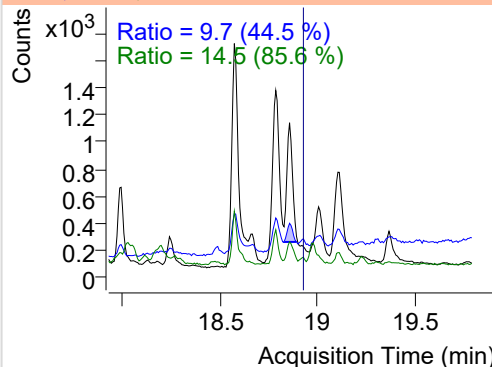


Perylene

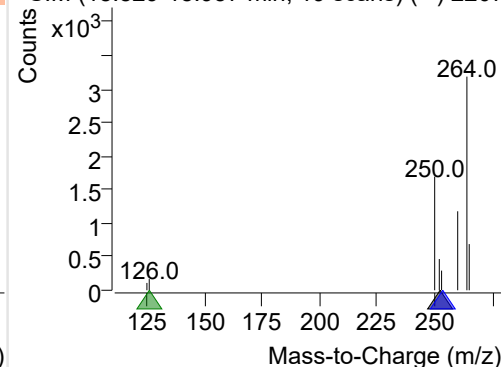
+ Selected Ion (252.0) 220707-PAHs-034.D



252.0, 253.0, 126.0

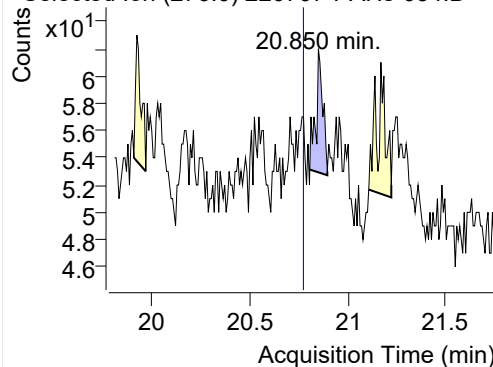


+ SIM (18.829-18.957 min, 19 scans) (**) 2207

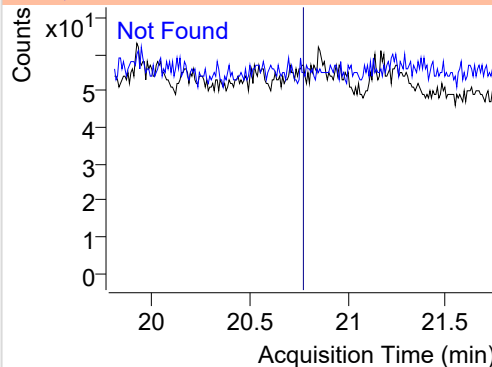


Indeno(1,2,3-c,d)pyrene

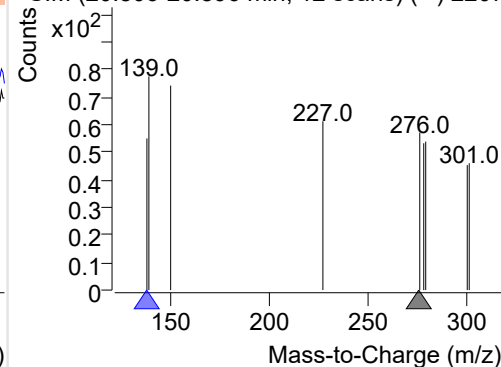
+ Selected Ion (276.0) 220707-PAHs-034.D



276.0, 138.0

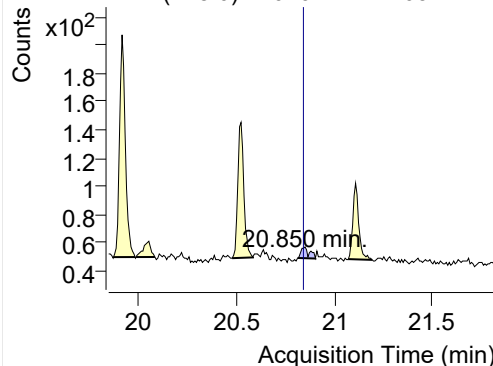


+ SIM (20.806-20.896 min, 12 scans) (**) 2207

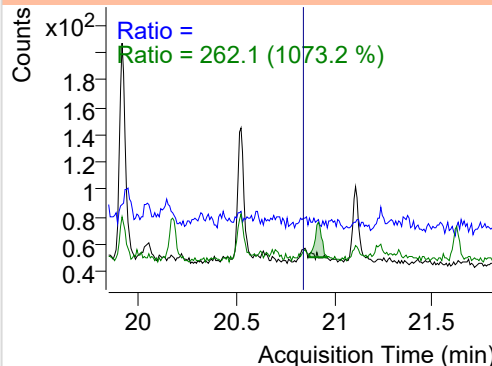


Dibenz(a,h)anthracene

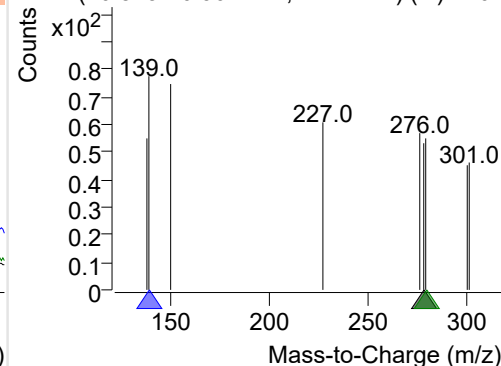
+ Selected Ion (278.0) 220707-PAHs-034.D



278.0, 139.0, 279.0



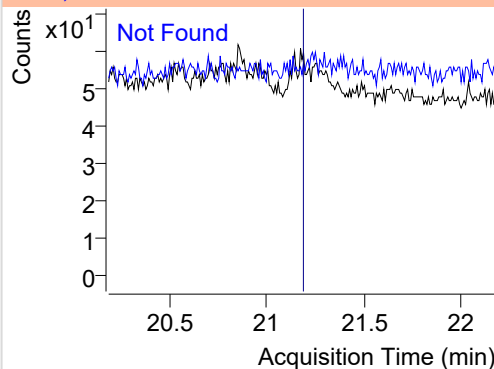
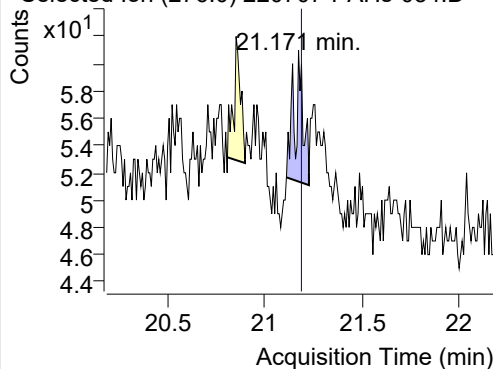
+ SIM (20.813-20.904 min, 12 scans) (**) 2207



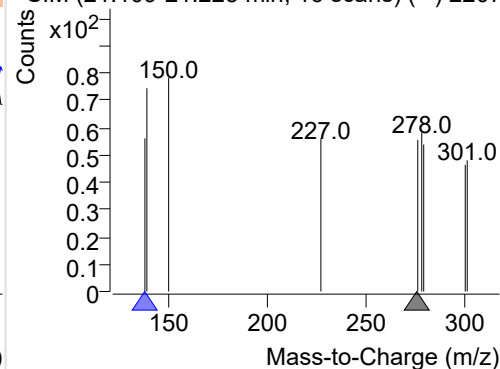
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 220707-PAHs-034.D

276.0, 138.0

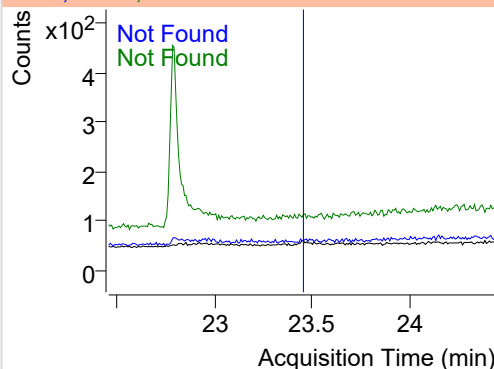
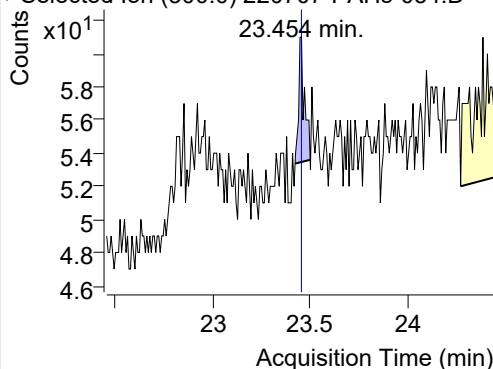


+ SIM (21.109-21.225 min, 16 scans) (**) 2207

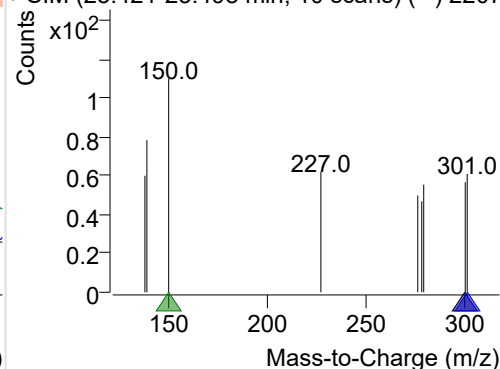
**Coronene**

+ Selected Ion (300.0) 220707-PAHs-034.D

300.0, 301.0, 150.0



+ SIM (23.421-23.498 min, 10 scans) (**) 2207



Quantitative Analysis Sample Based Report

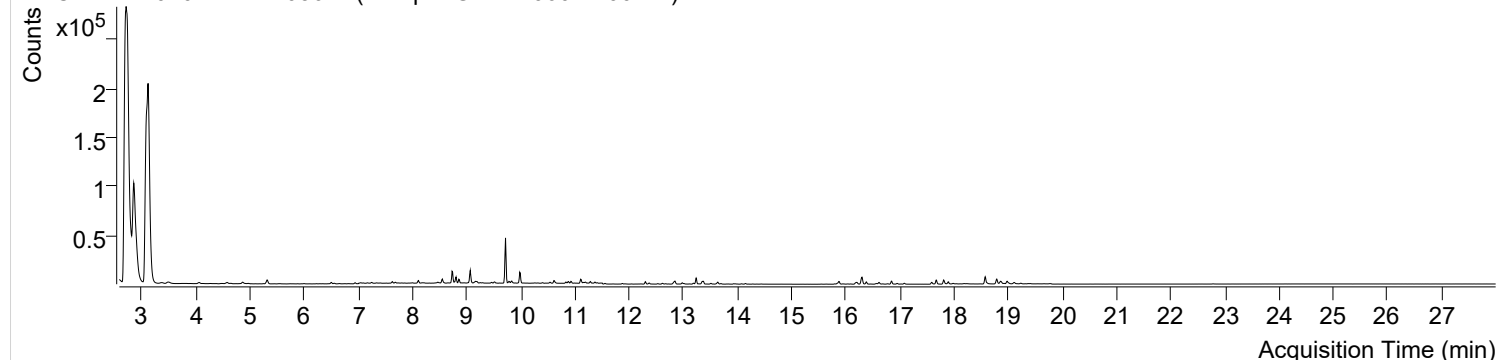


Trusted Answers

| | | | |
|---------------------------|--|-----------------------|--------------------------|
| Batch Data Path File Name | D:\MassHunter\GCMS\1\data\PAHs\220707-PAHs-Sample\QuantResults\220707-PAHs-Quant.batch.bin | | |
| Analysis Time Stamp | 2022-07-09 오전 11:12:52 | Analyst Name | DESKTOP-86B7UPG\5975MS |
| Report Generation Time | 2022-07-09 오전 11:13:20 | Report Generator Name | DESKTOP-86B7UPG\5975MS |
| Calibration Last Update | 2022-07-09 오전 11:04:15 | Batch State | Processed |
| Analyze Quant Version | 10.2 | Report Quant Version | 10.2 |
| Acq. Date-Time | 2022-07-08 오전 7:28:07 | Data File | 220707-PAHs-036.D |
| Type | Sample | Name | Sample-Gas-220604-100DIL |
| Dil. | 1 | Acq. Method File | PAHs 19mix-Method |

Sample Chromatogram

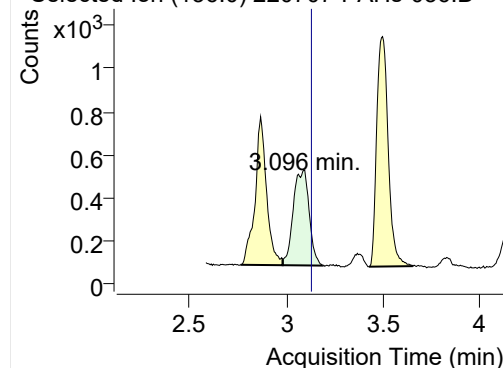
+ TIC SIM 220707-PAHs-036.D (Sample-Gas-220604-100DIL)



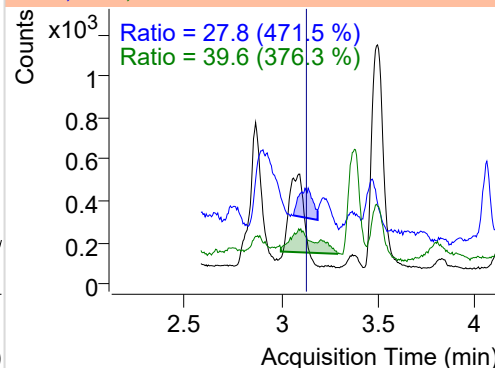
| Name | RT | Transition | Resp. | Height | Final Conc. Units | Ratio |
|-------------------------|--------|------------|--------|----------|-------------------|-------|
| IS-D8-Naphthalene | 3.096 | 136.0 | 2520 | 443.06 | ND ng/ml | 39.6 |
| Naphthalene | 3.117 | 128.0 | 833508 | 164534.8 | ND ng/ml | 12.8 |
| Acenaphthylene | 6.546 | 152.0 | 273 | 125.88 | ND ng/ml | 50.0 |
| IS-D10-Acenaphthene | 6.498 | 164.0 | 1302 | 669.77 | ND ng/ml | 101.0 |
| Acenaphthene | 6.558 | 154.0 | 302 | 145.23 | ND ng/ml | 119.8 |
| LSS-D10-Fluorene | 7.627 | 176.0 | 1099 | 676.14 | ND ng/ml | 95.6 |
| Fluorene | 7.680 | 166.0 | 784 | 415.82 | ND ng/ml | 107.1 |
| IS-D10-Phenanthrene | 9.780 | 188.0 | 2202 | 1186.75 | ND ng/ml | 17.1 |
| Phenanthrene | 9.832 | 178.0 | 2238 | 1217.12 | ND ng/ml | 20.2 |
| Anthracene | 9.979 | 178.0 | 5095 | 2922.81 | ND ng/ml | 27.4 |
| Fluoranthene | 12.526 | 202.0 | 531 | 331.69 | ND ng/ml | |
| LSS-D10-Pyrene | 12.981 | 212.0 | 1511 | 905.13 | ND ng/ml | 21.9 |
| Pyrene | 13.014 | 202.0 | 731 | 382.21 | ND ng/ml | |
| Benz(a)anthracene | 15.881 | 228.0 | 124 | 64.07 | ND ng/ml | 36.2 |
| IS-D12-Chrysene | 15.843 | 240.0 | 1416 | 623.98 | ND ng/ml | 24.2 |
| Chrysene | 15.881 | 228.0 | 124 | 64.07 | ND ng/ml | 36.2 |
| Benzo(b)fluoranthene | 18.231 | 252.0 | 176 | 75.33 | ND ng/ml | 170.0 |
| Benzo(k)fluoranthene | 18.231 | 252.0 | 176 | 75.33 | ND ng/ml | 170.0 |
| SS-D12-Benzo(e)pyrene | 18.573 | 264.0 | 5191 | 2275.99 | ND ng/ml | 5.1 |
| Benzo(e)pyrene | 18.573 | 252.0 | 1701 | 661.21 | ND ng/ml | 18.5 |
| Benzo(a)pyrene | 18.786 | 252.0 | 1313 | 511.92 | ND ng/ml | 16.9 |
| IS-D12-Perylene | 18.865 | 264.0 | 3065 | 1083.99 | ND ng/ml | 9.3 |
| Perylene | 18.850 | 252.0 | 1204 | 380.54 | ND ng/ml | 21.3 |
| Indeno(1,2,3-c,d)pyrene | 21.171 | 276.0 | 18 | 4.52 | ND ng/ml | |
| Dibenz(a,h)anthracene | 21.110 | 278.0 | 11 | 5.49 | ND ng/ml | |
| Benzo(g,h,i)perylene | 21.171 | 276.0 | 18 | 4.52 | ND ng/ml | |
| Coronene | 23.446 | 300.0 | 36 | 9.24 | ND ng/ml | |

IS-D8-Naphthalene

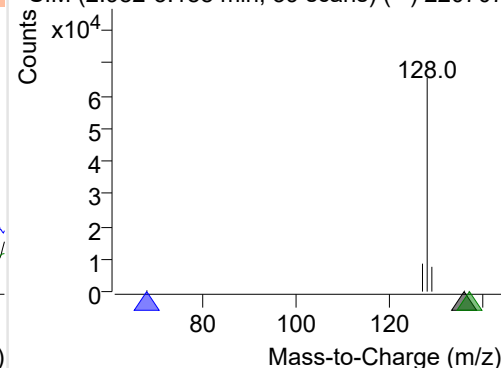
+ Selected Ion (136.0) 220707-PAHs-036.D



136.0, 68.0, 137.0

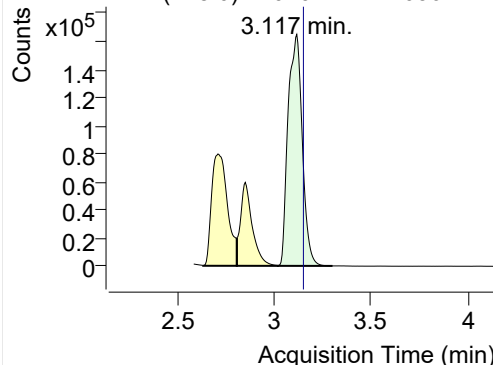


+ SIM (2.982-3.188 min, 39 scans) (**) 220707

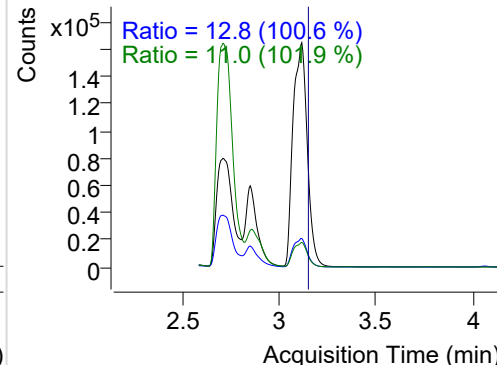


Naphthalene

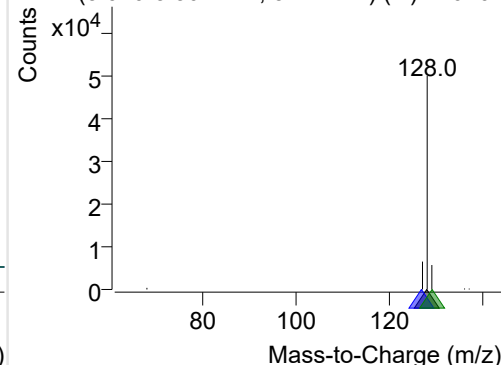
+ Selected Ion (128.0) 220707-PAHs-036.D



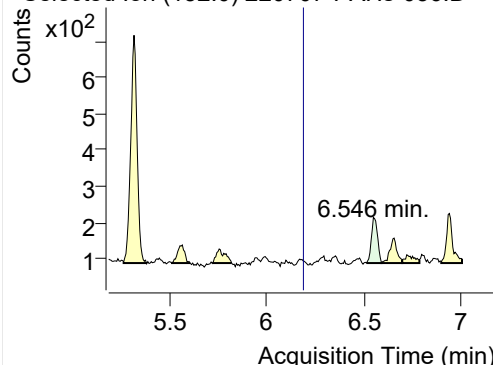
128.0, 127.0, 129.0



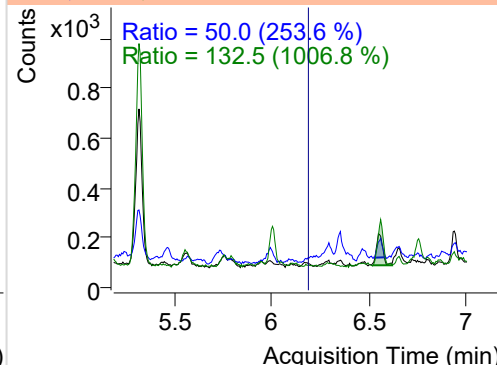
+ SIM (3.020-3.301 min, 52 scans) (**) 220707

**Acenaphthylene**

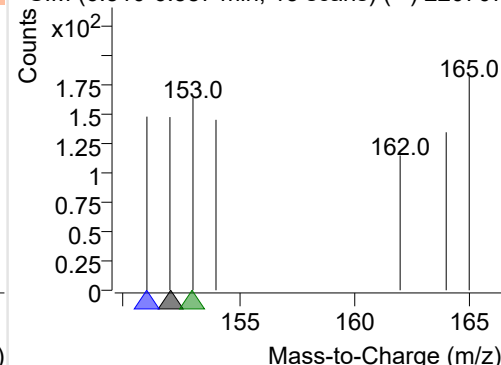
+ Selected Ion (152.0) 220707-PAHs-036.D



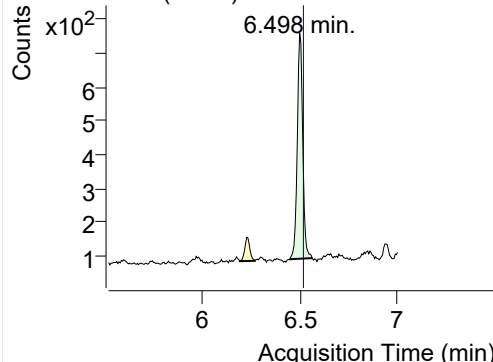
152.0, 151.0, 153.0



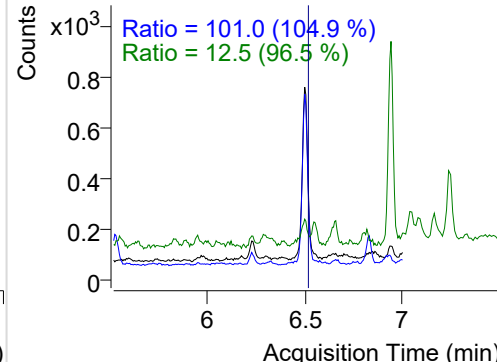
+ SIM (6.510-6.587 min, 13 scans) (**) 220707

**IS-D10-Acenaphthene**

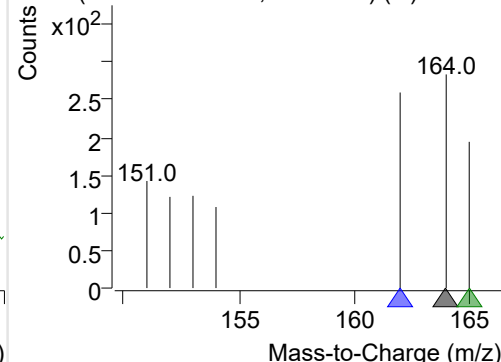
+ Selected Ion (164.0) 220707-PAHs-036.D



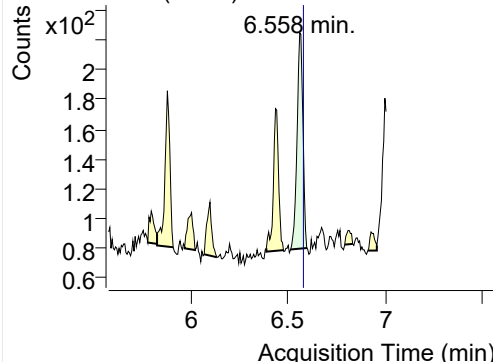
164.0, 162.0, 165.0



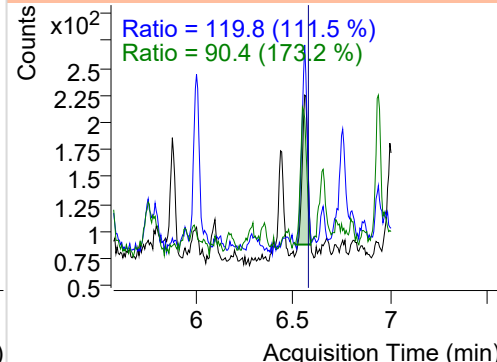
+ SIM (6.447-6.563 min, 19 scans) (**) 220707

**Acenaphthene**

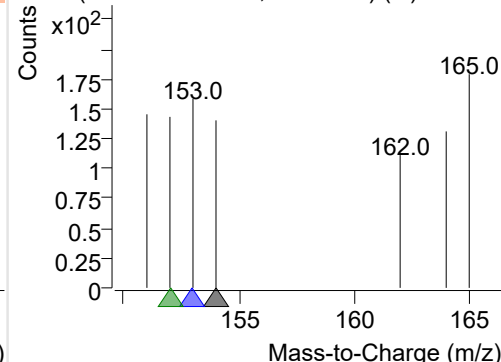
+ Selected Ion (154.0) 220707-PAHs-036.D



154.0, 153.0, 152.0

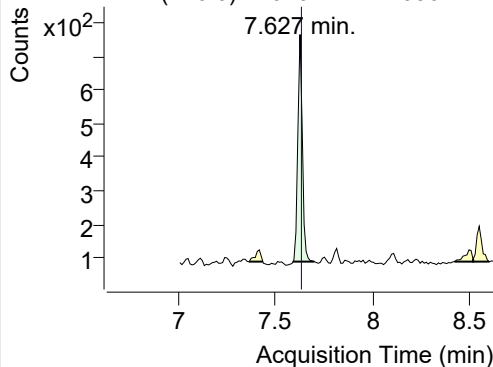


+ SIM (6.511-6.595 min, 14 scans) (**) 220707

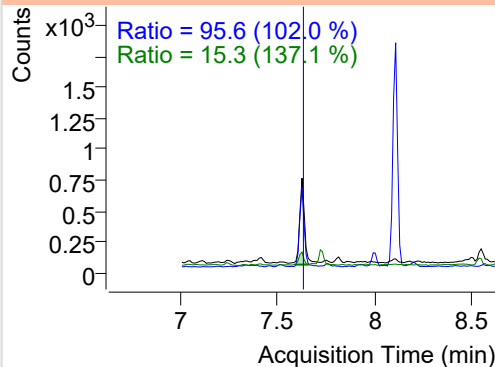


LSS-D10-Fluorene

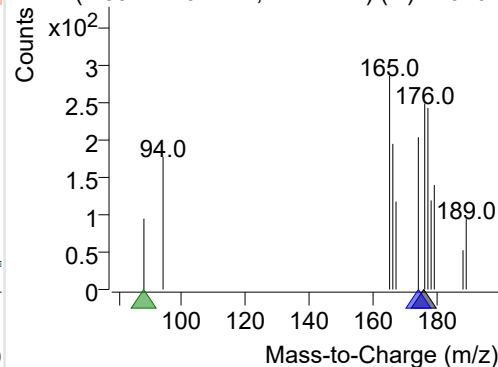
+ Selected Ion (176.0) 220707-PAHs-036.D



176.0, 174.0, 88.0

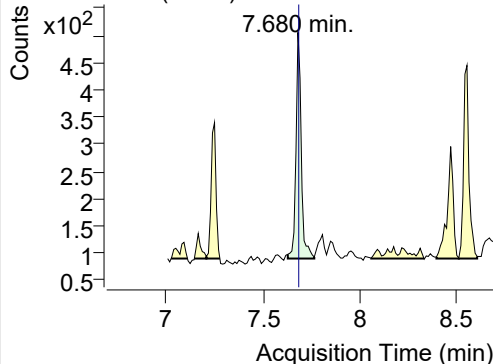


+ SIM (7.591-7.701 min, 11 scans) (**) 220707

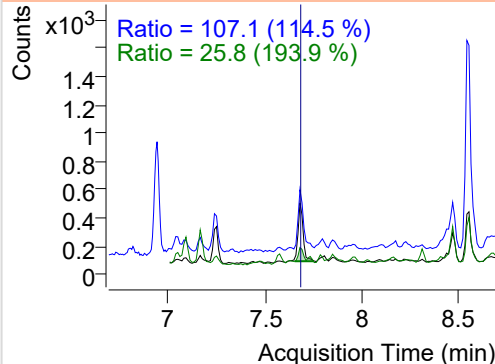


Fluorene

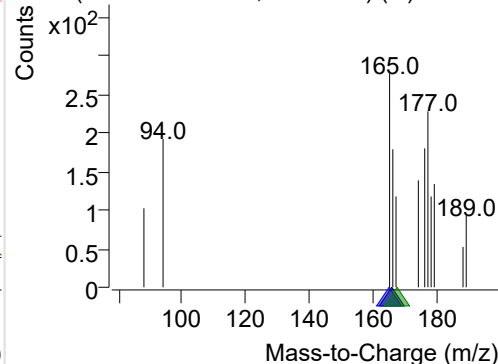
+ Selected Ion (166.0) 220707-PAHs-036.D



166.0, 165.0, 167.0

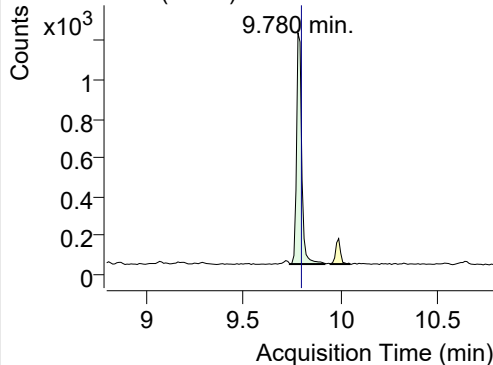


+ SIM (7.627-7.764 min, 14 scans) (**) 220707

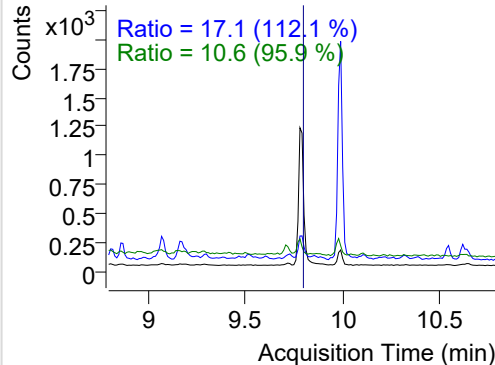


IS-D10-Phenanthrene

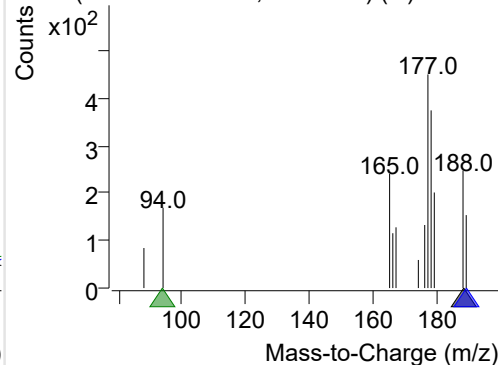
+ Selected Ion (188.0) 220707-PAHs-036.D



188.0, 189.0, 94.0

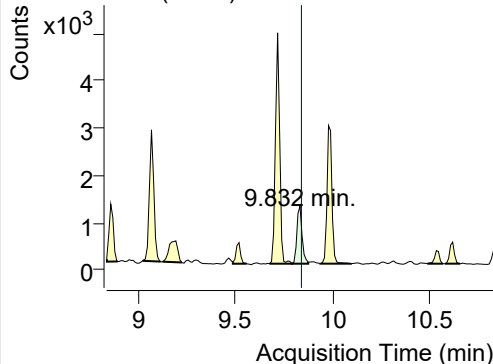


+ SIM (9.738-9.916 min, 18 scans) (**) 220707

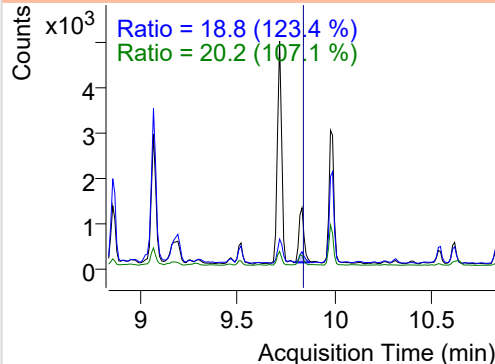


Phenanthrene

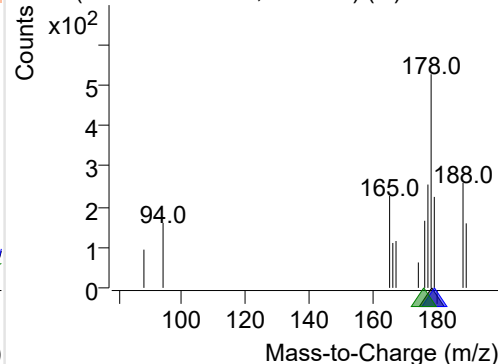
+ Selected Ion (178.0) 220707-PAHs-036.D



178.0, 179.0, 176.0

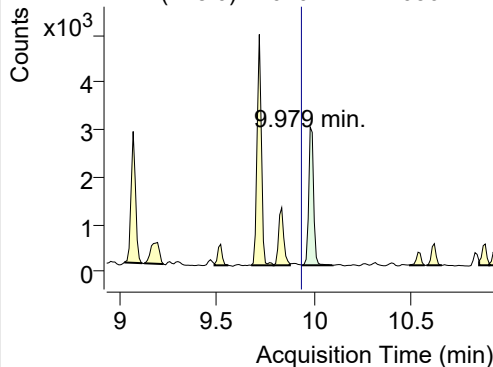


+ SIM (9.790-9.874 min, 9 scans) (**) 220707-I

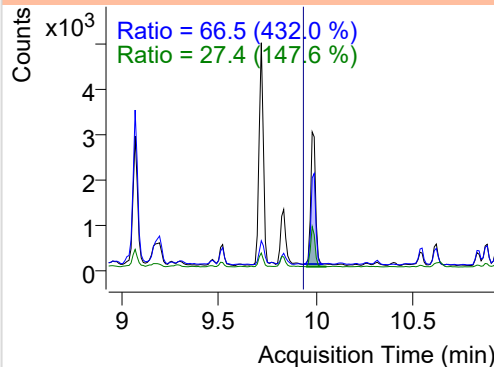


Anthracene

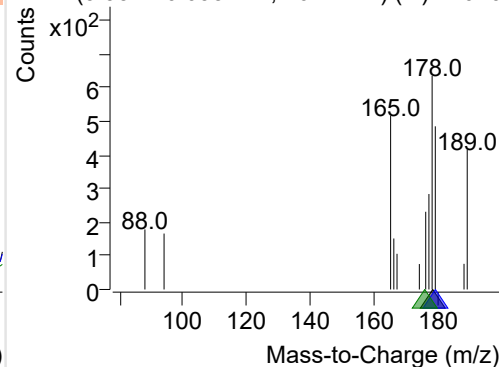
+ Selected Ion (178.0) 220707-PAHs-036.D



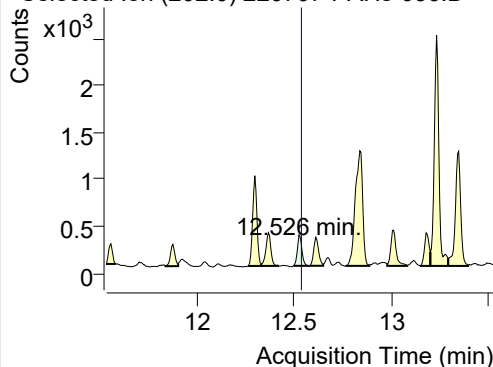
178.0, 179.0, 176.0



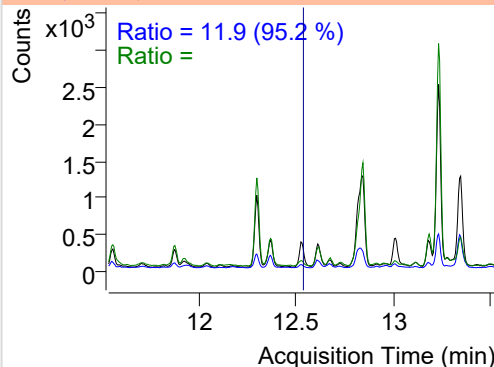
+ SIM (9.937-10.095 min, 16 scans) (**) 22070

**Fluoranthene**

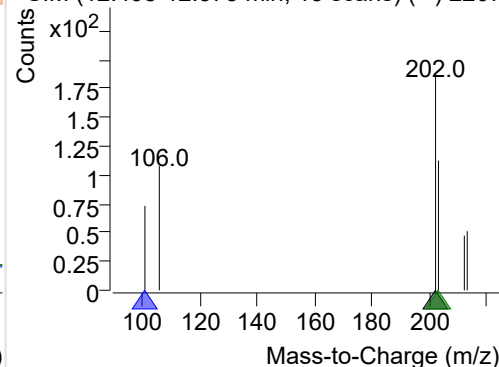
+ Selected Ion (202.0) 220707-PAHs-036.D



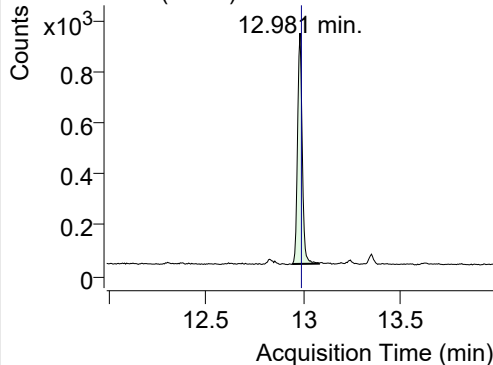
202.0, 101.0, 203.0



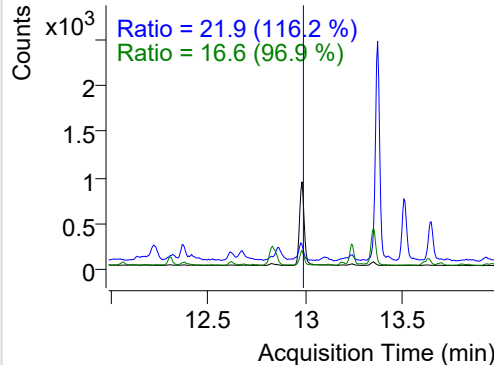
+ SIM (12.498-12.575 min, 15 scans) (**) 2207

**LSS-D10-Pyrene**

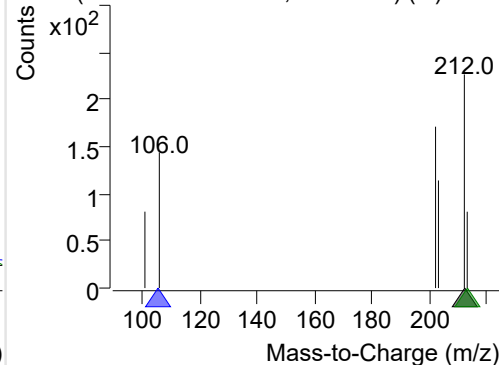
+ Selected Ion (212.0) 220707-PAHs-036.D



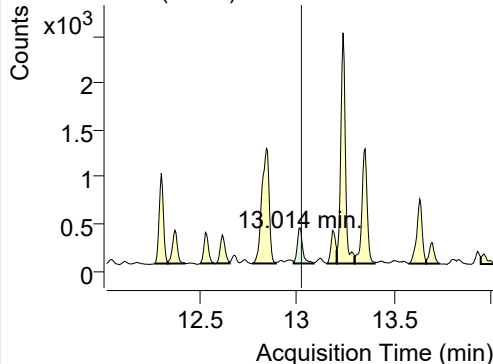
212.0, 106.0, 213.0



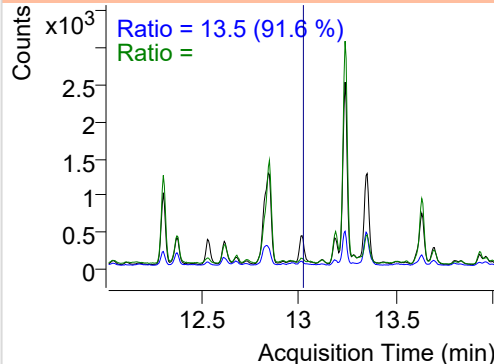
+ SIM (12.941-13.079 min, 26 scans) (**) 2207

**Pyrene**

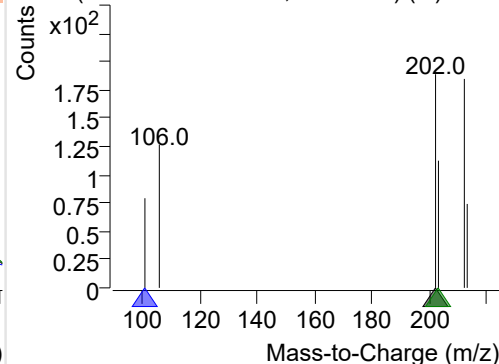
+ Selected Ion (202.0) 220707-PAHs-036.D



202.0, 101.0, 203.0



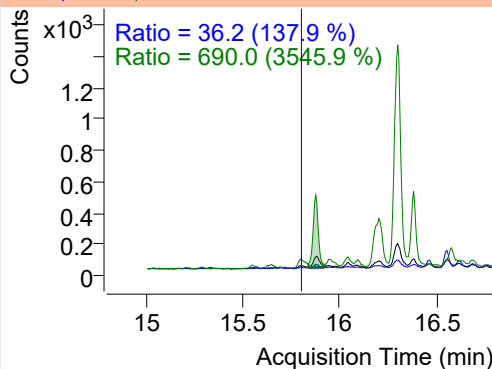
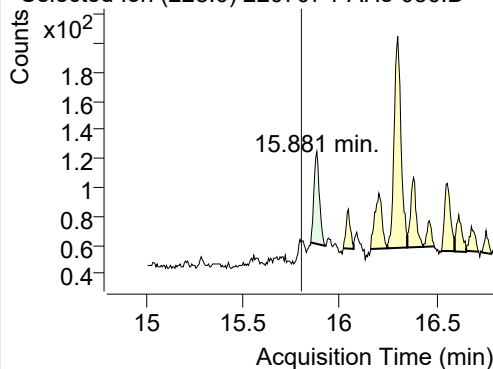
+ SIM (12.981-13.084 min, 20 scans) (**) 2207



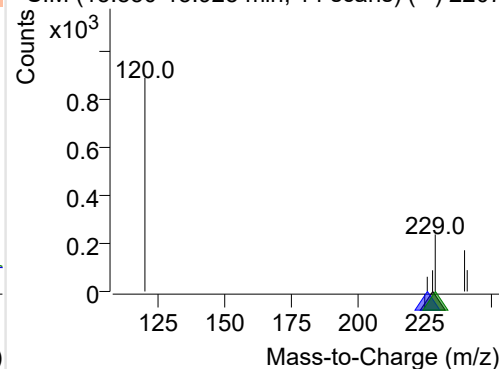
Benz(a)anthracene

+ Selected Ion (228.0) 220707-PAHs-036.D

228.0, 226.0, 229.0

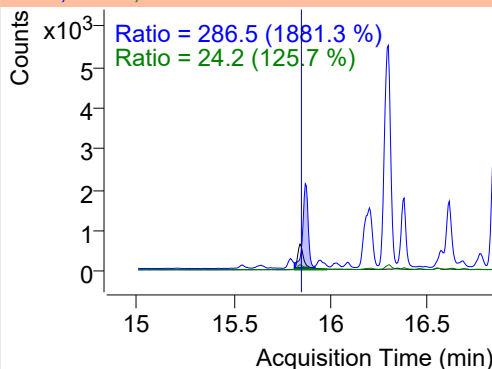
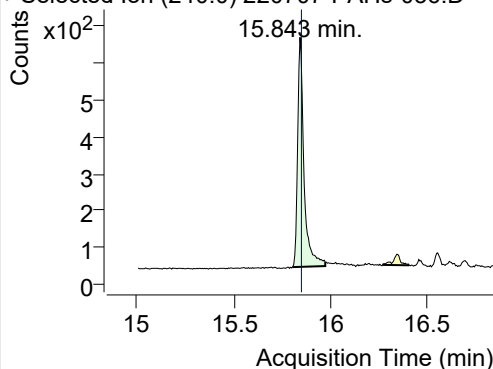


+ SIM (15.850-15.925 min, 14 scans) (**) 2207

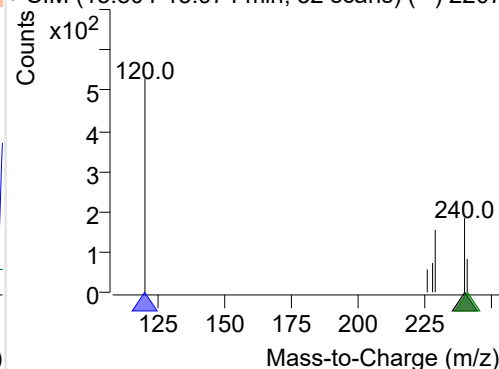
**IS-D12-Chrysene**

+ Selected Ion (240.0) 220707-PAHs-036.D

240.0, 120.0, 241.0

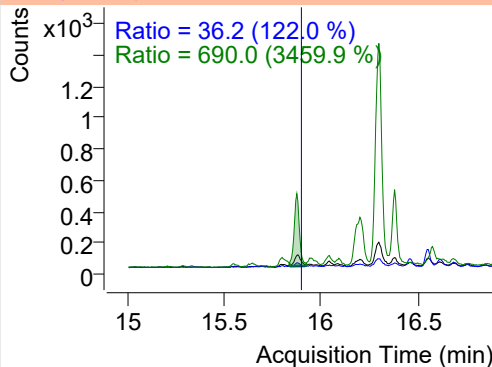
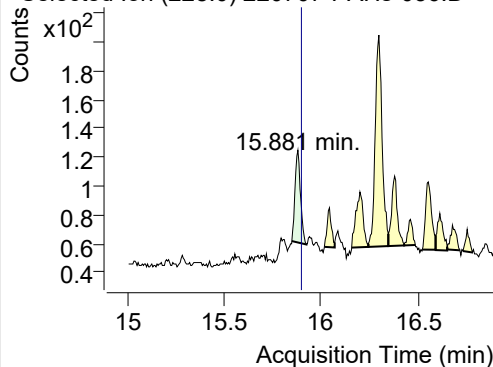


+ SIM (15.804-15.974 min, 32 scans) (**) 2207

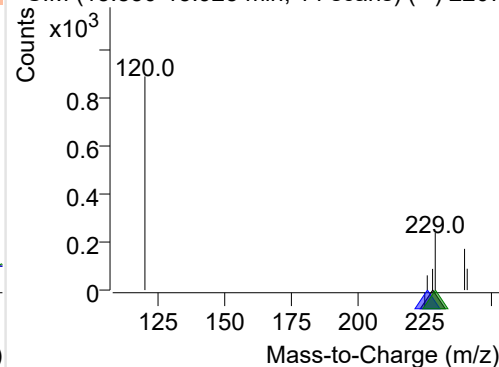
**Chrysene**

+ Selected Ion (228.0) 220707-PAHs-036.D

228.0, 226.0, 229.0

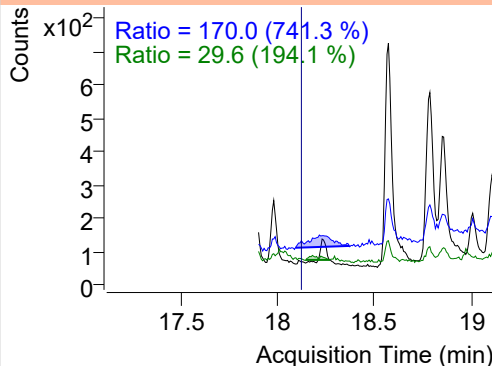
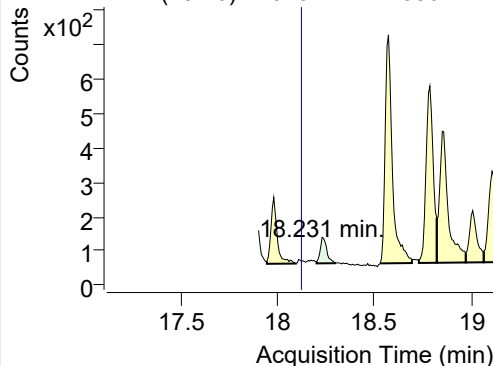


+ SIM (15.850-15.925 min, 14 scans) (**) 2207

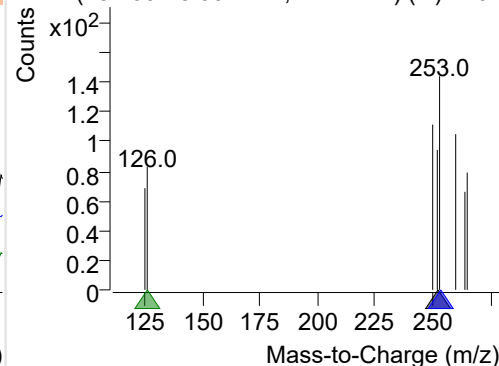
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 220707-PAHs-036.D

252.0, 253.0, 126.0



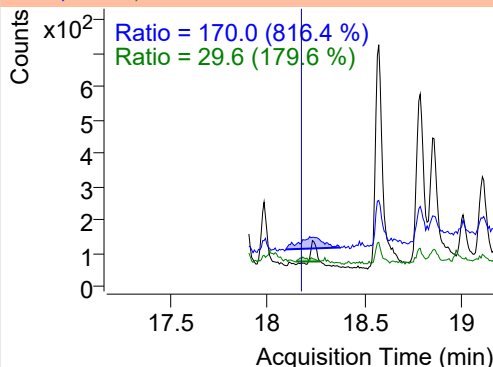
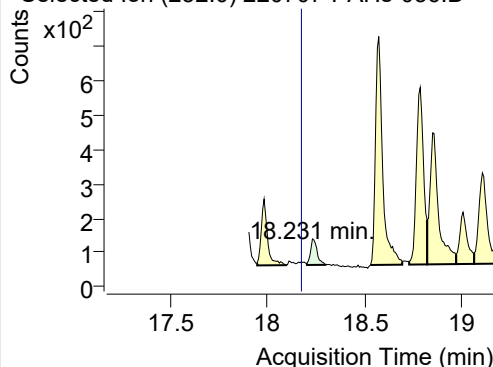
+ SIM (18.203-18.302 min, 14 scans) (**) 2207



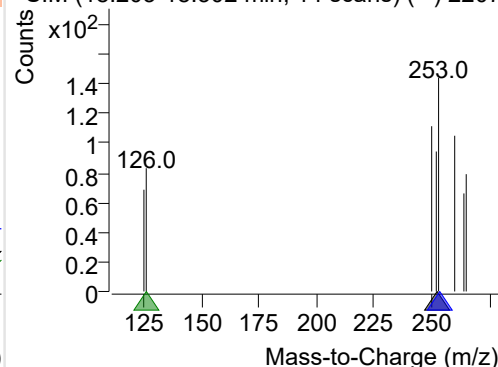
Benzo(k)fluoranthene

+ Selected Ion (252.0) 220707-PAHs-036.D

252.0, 253.0, 126.0

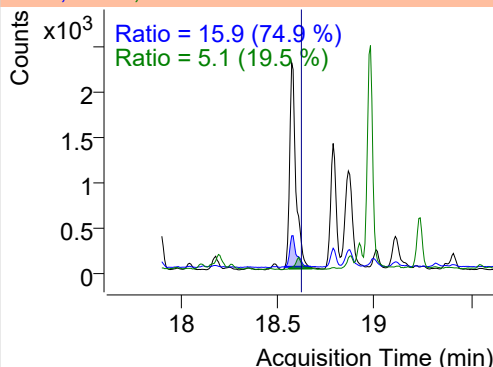
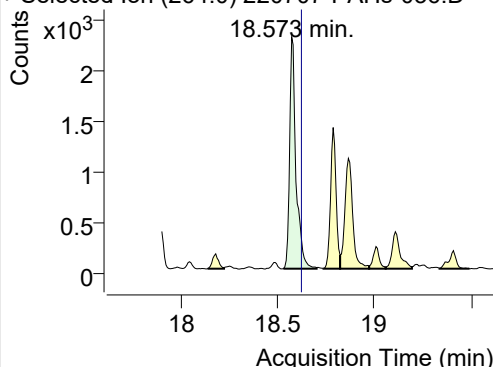


+ SIM (18.203-18.302 min, 14 scans) (**) 2207

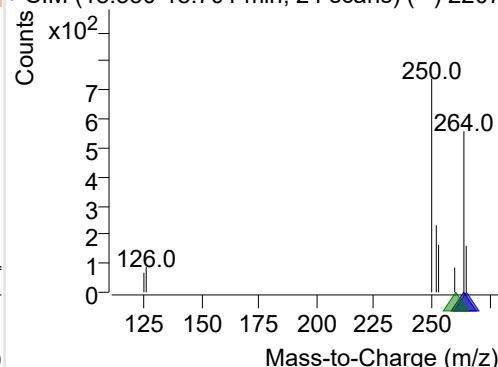
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 220707-PAHs-036.D

264.0, 265.0, 260.0

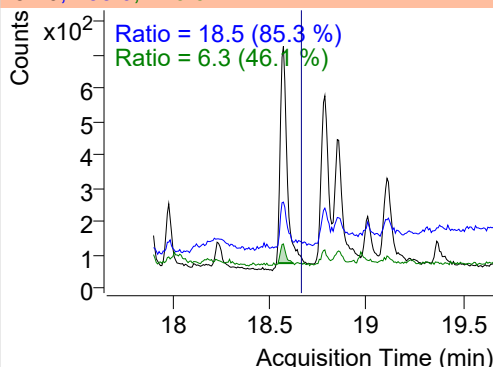
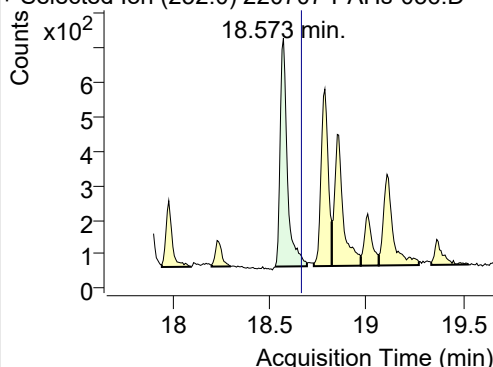


+ SIM (18.530-18.701 min, 24 scans) (**) 2207

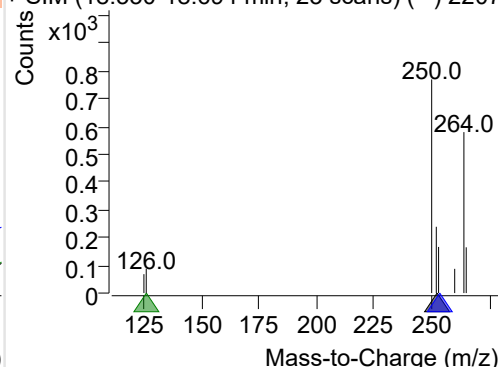
**Benzo(e)pyrene**

+ Selected Ion (252.0) 220707-PAHs-036.D

252.0, 253.0, 126.0

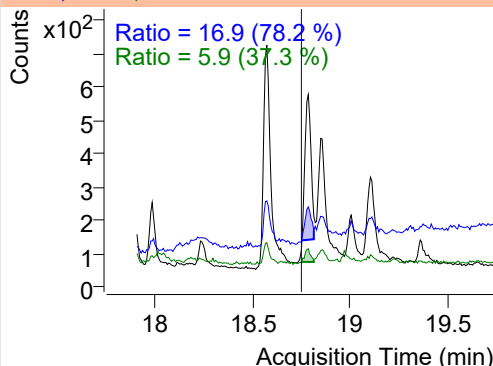
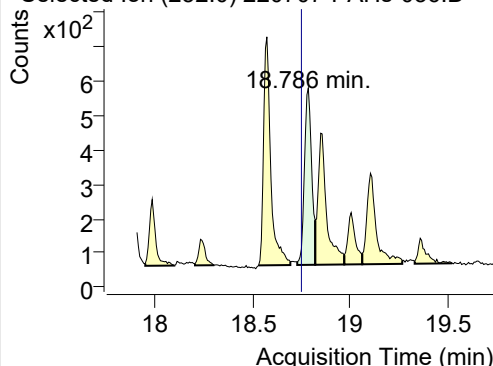


+ SIM (18.530-18.694 min, 23 scans) (**) 2207

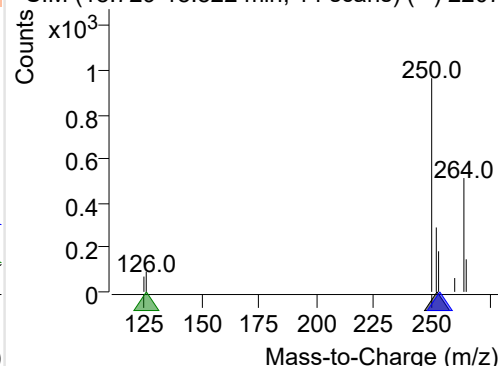
**Benzo(a)pyrene**

+ Selected Ion (252.0) 220707-PAHs-036.D

252.0, 253.0, 126.0



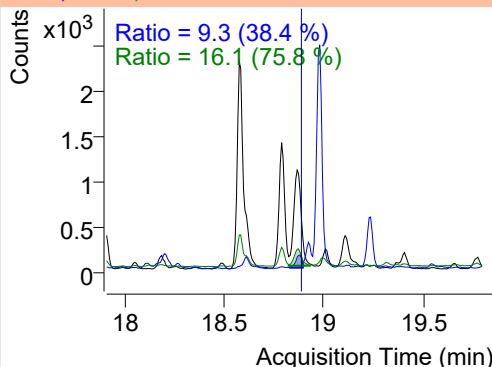
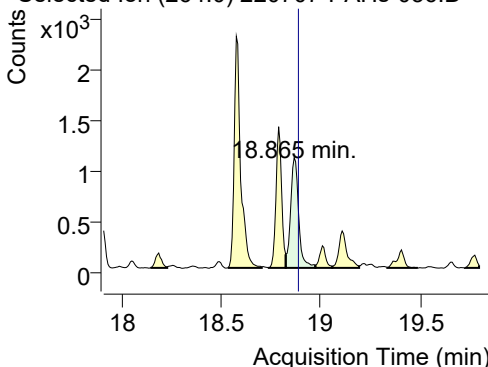
+ SIM (18.729-18.822 min, 14 scans) (**) 2207



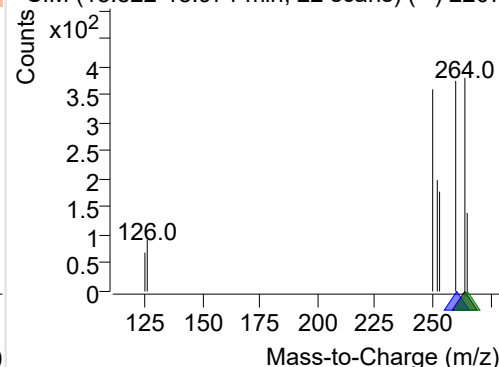
IS-D12-Perylene

+ Selected Ion (264.0) 220707-PAHs-036.D

264.0, 260.0, 265.0



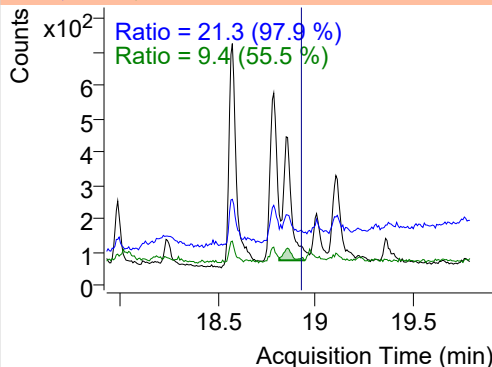
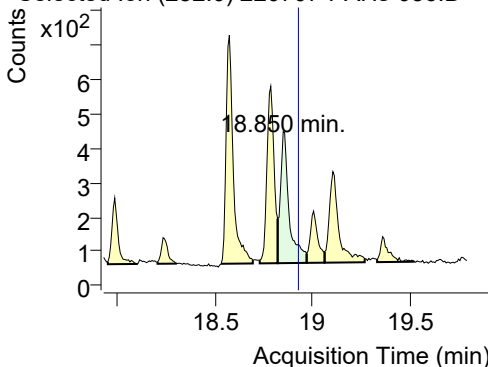
+ SIM (18.822-18.971 min, 22 scans) (**) 2207



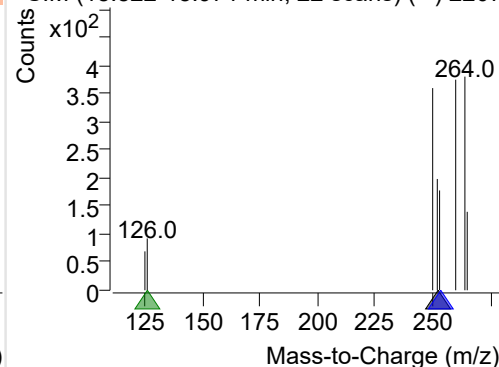
Perylene

+ Selected Ion (252.0) 220707-PAHs-036.D

252.0, 253.0, 126.0



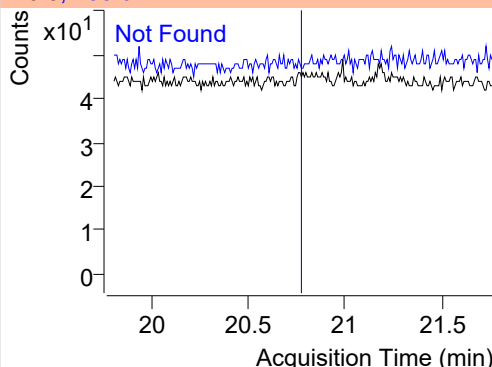
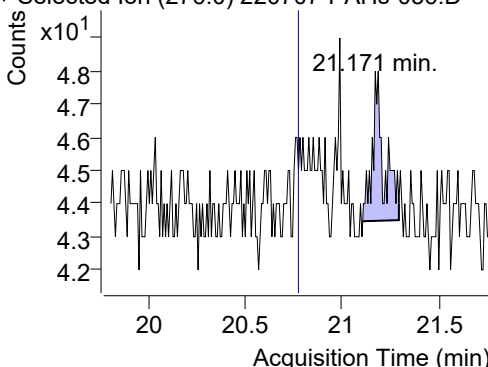
+ SIM (18.822-18.971 min, 22 scans) (**) 2207



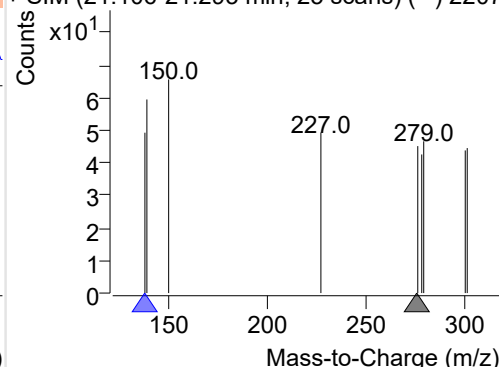
Indeno(1,2,3-c,d)pyrene

+ Selected Ion (276.0) 220707-PAHs-036.D

276.0, 138.0



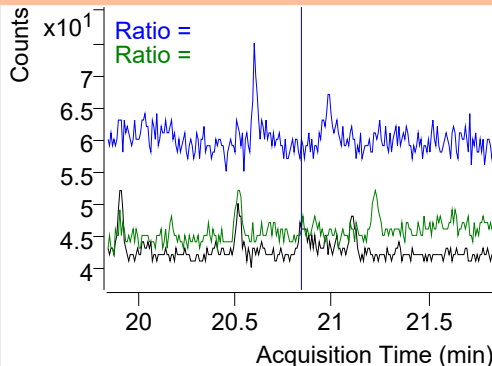
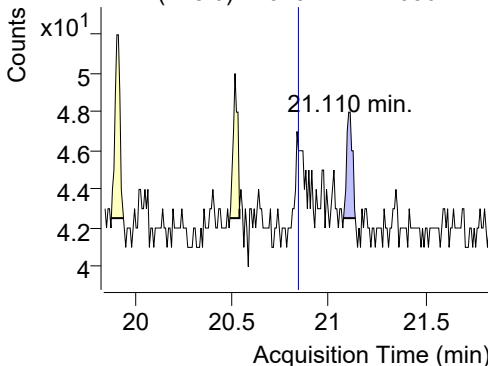
+ SIM (21.106-21.293 min, 25 scans) (**) 2207



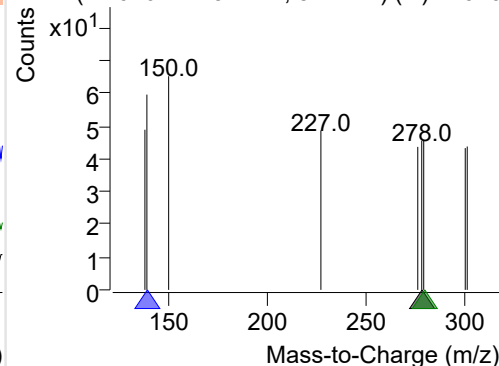
Dibenz(a,h)anthracene

+ Selected Ion (278.0) 220707-PAHs-036.D

278.0, 139.0, 279.0



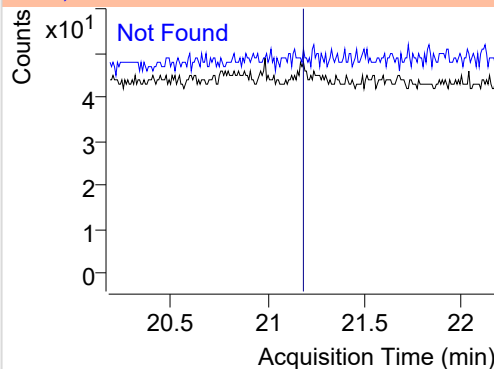
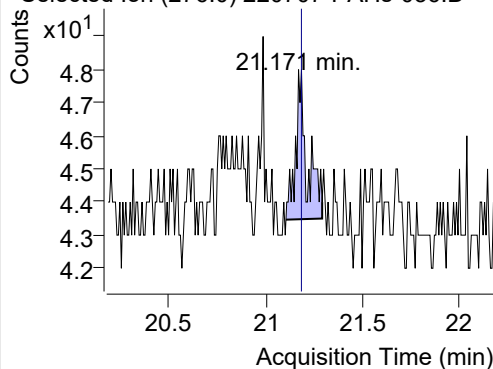
+ SIM (21.076-21.137 min, 8 scans) (**) 22070



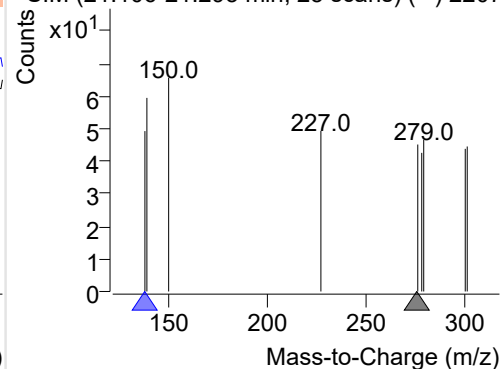
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 220707-PAHs-036.D

276.0, 138.0

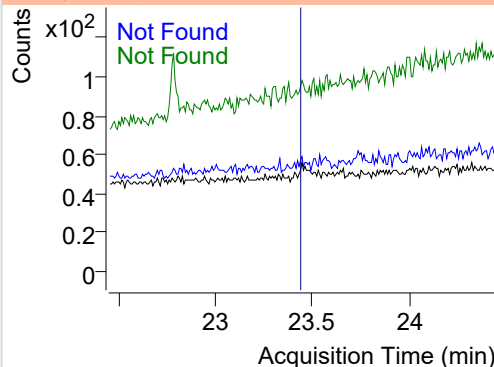
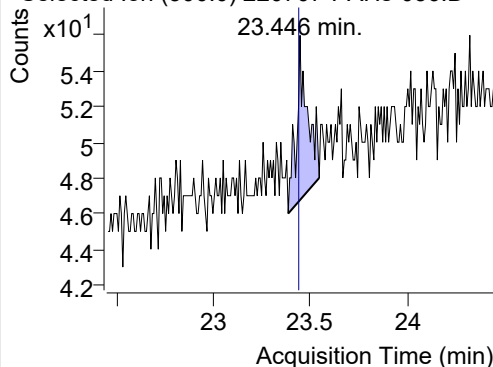


+ SIM (21.106-21.293 min, 25 scans) (**) 2207

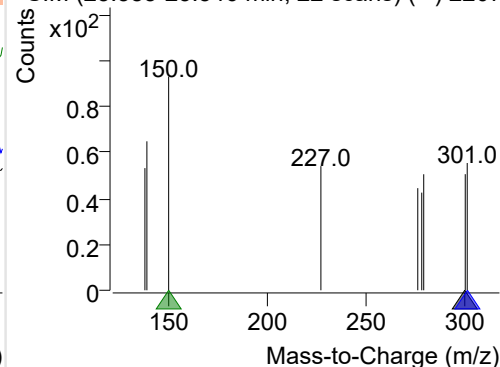
**Coronene**

+ Selected Ion (300.0) 220707-PAHs-036.D

300.0, 301.0, 150.0



+ SIM (23.385-23.546 min, 22 scans) (**) 2207



Quantitative Analysis Sample Based Report

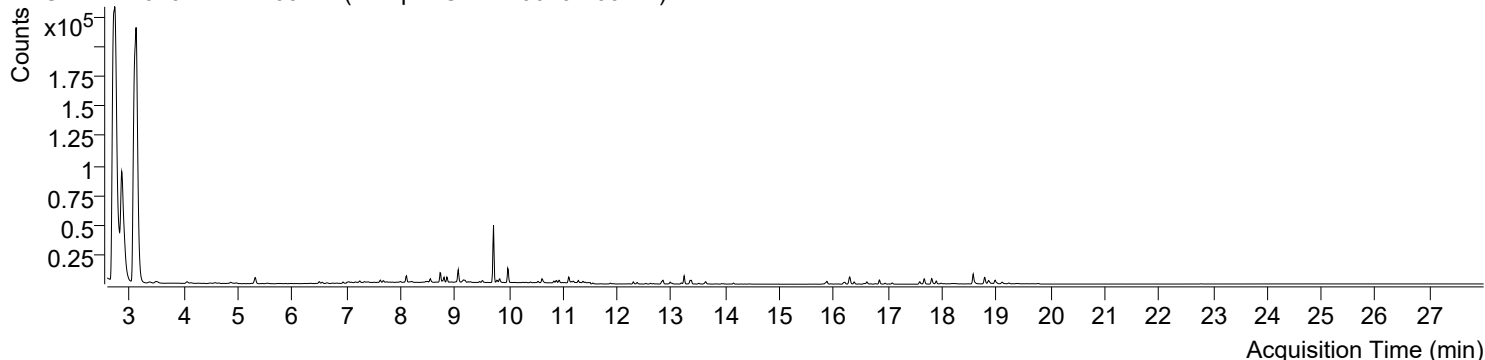


Trusted Answers

| | | | |
|---------------------------|--|-----------------------|--------------------------|
| Batch Data Path File Name | D:\MassHunter\GCMS\1\data\PAHs\220707-PAHs-Sample\QuantResults\220707-PAHs-Quant.batch.bin | | |
| Analysis Time Stamp | 2022-07-09 오전 11:12:52 | Analyst Name | DESKTOP-86B7UPG\5975MS |
| Report Generation Time | 2022-07-09 오전 11:13:20 | Report Generator Name | DESKTOP-86B7UPG\5975MS |
| Calibration Last Update | 2022-07-09 오전 11:04:15 | Batch State | Processed |
| Analyze Quant Version | 10.2 | Report Quant Version | 10.2 |
| Acq. Date-Time | 2022-07-08 오전 7:59:09 | Data File | 220707-PAHs-037.D |
| Type | Sample | Name | Sample-Gas-220610-100DIL |
| Dil. | 1 | Acq. Method File | PAHs 19mix-Method |

Sample Chromatogram

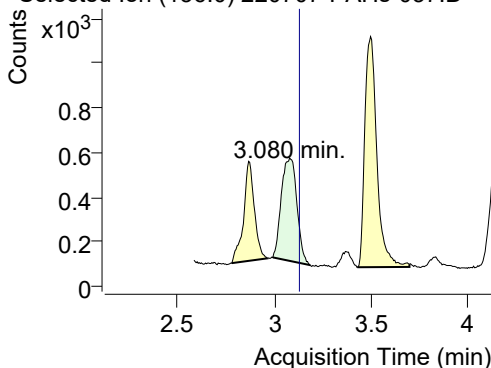
+ TIC SIM 220707-PAHs-037.D (Sample-Gas-220610-100DIL)



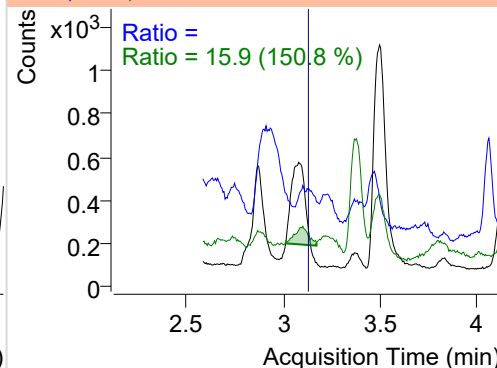
| Name | RT | Transition | Resp. | Height | Final Conc. Units | Ratio |
|-------------------------|--------|------------|--------|-----------|-------------------|-------|
| IS-D8-Naphthalene | 3.080 | 136.0 | 2558 | 462.15 | ND ng/ml | 15.9 |
| Naphthalene | 3.118 | 128.0 | 885922 | 173172.50 | ND ng/ml | 12.2 |
| Acenaphthylene | 5.978 | 152.0 | 103 | 27.85 | ND ng/ml | 205.5 |
| IS-D10-Acenaphthene | 6.499 | 164.0 | 1491 | 740.52 | ND ng/ml | 97.9 |
| Acenaphthene | 6.558 | 154.0 | 547 | 269.37 | ND ng/ml | 121.4 |
| LSS-D10-Fluorene | 7.627 | 176.0 | 1370 | 789.91 | ND ng/ml | 93.9 |
| Fluorene | 7.680 | 166.0 | 1209 | 626.23 | ND ng/ml | 128.2 |
| IS-D10-Phenanthrene | 9.780 | 188.0 | 2434 | 1308.48 | ND ng/ml | 18.0 |
| Phenanthrene | 9.832 | 178.0 | 3411 | 1898.70 | ND ng/ml | 18.6 |
| Anthracene | 9.979 | 178.0 | 5336 | 3076.70 | ND ng/ml | 27.7 |
| Fluoranthene | 12.532 | 202.0 | 632 | 379.83 | ND ng/ml | |
| LSS-D10-Pyrene | 12.982 | 212.0 | 1772 | 1083.60 | ND ng/ml | 22.7 |
| Pyrene | 13.014 | 202.0 | 761 | 456.85 | ND ng/ml | |
| Benz(a)anthracene | 15.806 | 228.0 | 32 | 14.52 | ND ng/ml | |
| IS-D12-Chrysene | 15.844 | 240.0 | 1451 | 668.58 | ND ng/ml | 25.1 |
| Chrysene | 15.876 | 228.0 | 227 | 71.25 | ND ng/ml | 16.4 |
| Benzo(b)fluoranthene | 18.238 | 252.0 | 194 | 87.80 | ND ng/ml | 173.1 |
| Benzo(k)fluoranthene | 18.238 | 252.0 | 194 | 87.80 | ND ng/ml | 173.1 |
| SS-D12-Benzo(e)pyrene | 18.573 | 264.0 | 5763 | 2586.84 | ND ng/ml | 5.1 |
| Benzo(e)pyrene | 18.573 | 252.0 | 1779 | 708.12 | ND ng/ml | 19.2 |
| Benzo(a)pyrene | 18.779 | 252.0 | 1295 | 532.92 | ND ng/ml | 17.8 |
| IS-D12-Perylene | 18.865 | 264.0 | 3018 | 1075.84 | ND ng/ml | 17.0 |
| Perylene | 18.858 | 252.0 | 1055 | 379.07 | ND ng/ml | 20.9 |
| Indeno(1,2,3-c,d)pyrene | 21.186 | 276.0 | 12 | 4.83 | ND ng/ml | |
| Dibenz(a,h)anthracene | 21.102 | 278.0 | 7 | 3.76 | ND ng/ml | |
| Benzo(g,h,i)perylene | 21.186 | 276.0 | 12 | 4.83 | ND ng/ml | |
| Coronene | | 300.0 | | | ND ng/ml | |

IS-D8-Naphthalene

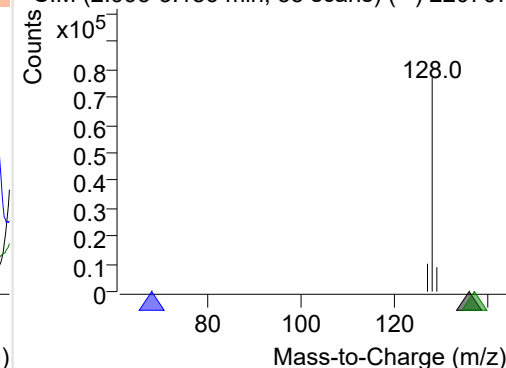
+ Selected Ion (136.0) 220707-PAHs-037.D



136.0, 68.0, 137.0

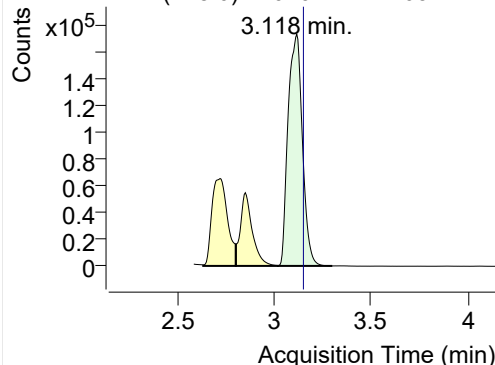


+ SIM (2.993-3.186 min, 35 scans) (**) 220707

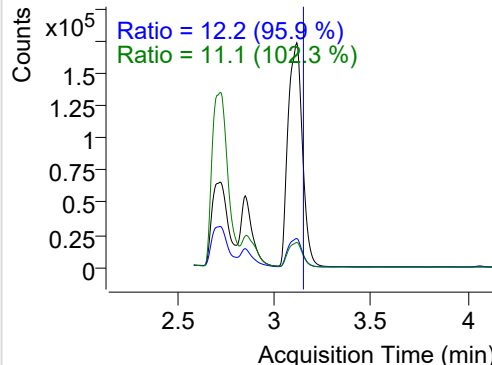


Naphthalene

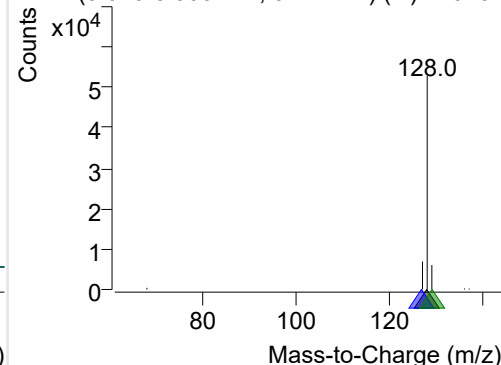
+ Selected Ion (128.0) 220707-PAHs-037.D



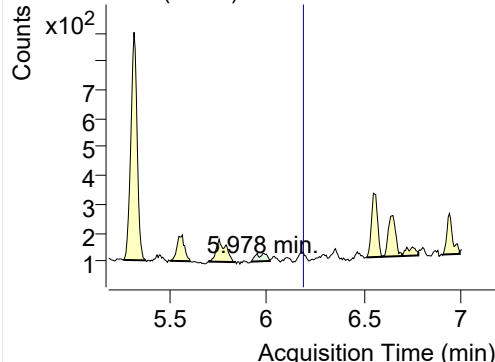
128.0, 127.0, 129.0



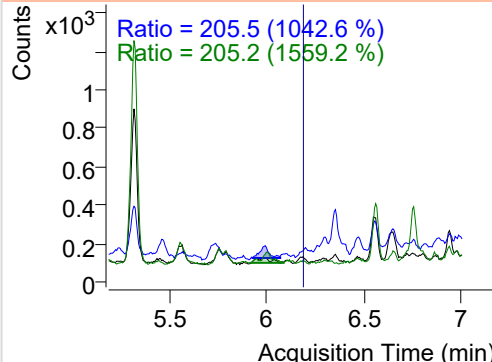
+ SIM (3.020-3.300 min, 52 scans) (**) 220707

**Acenaphthylene**

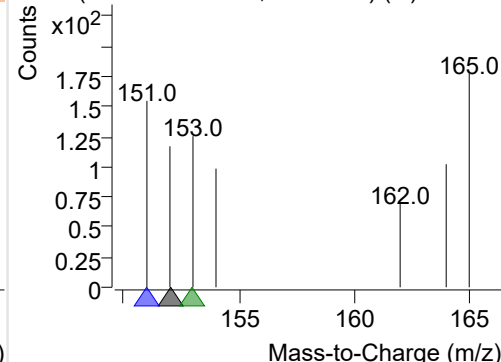
+ Selected Ion (152.0) 220707-PAHs-037.D



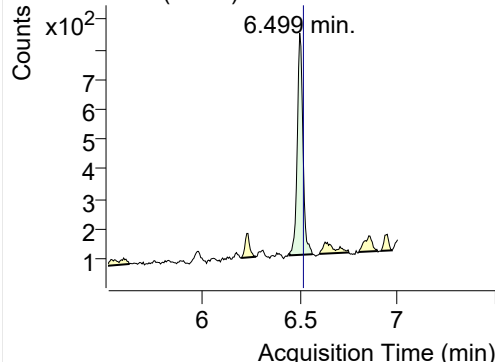
152.0, 151.0, 153.0



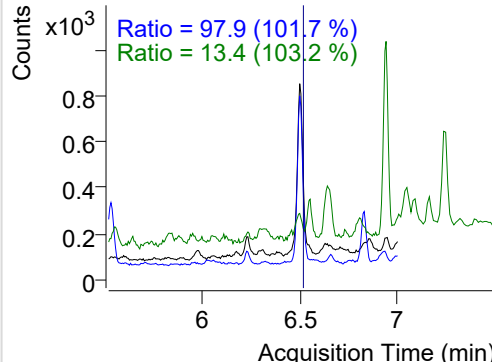
+ SIM (5.916-6.013 min, 17 scans) (**) 220707

**IS-D10-Acenaphthene**

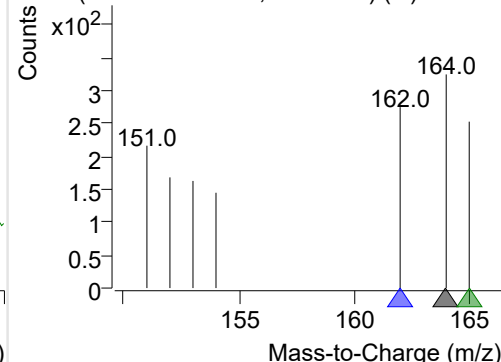
+ Selected Ion (164.0) 220707-PAHs-037.D



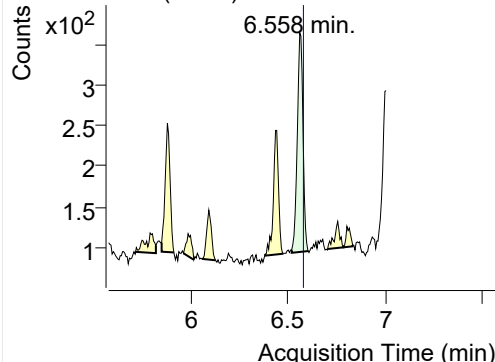
164.0, 162.0, 165.0



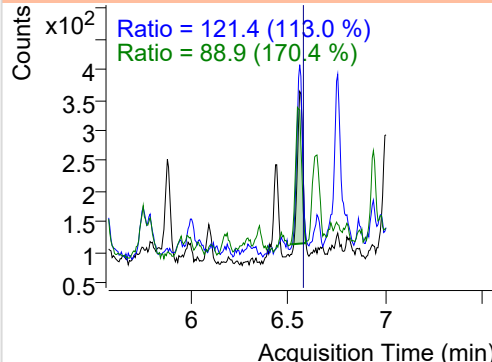
+ SIM (6.445-6.563 min, 20 scans) (**) 220707

**Acenaphthene**

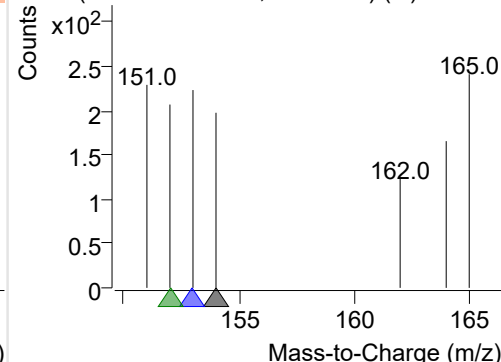
+ Selected Ion (154.0) 220707-PAHs-037.D



154.0, 153.0, 152.0

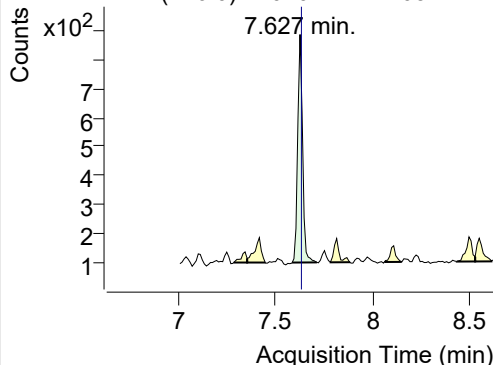


+ SIM (6.516-6.602 min, 15 scans) (**) 220707

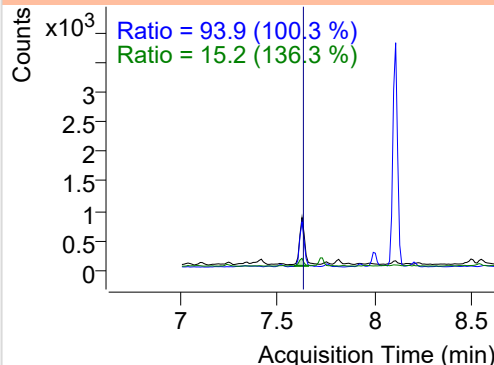


LSS-D10-Fluorene

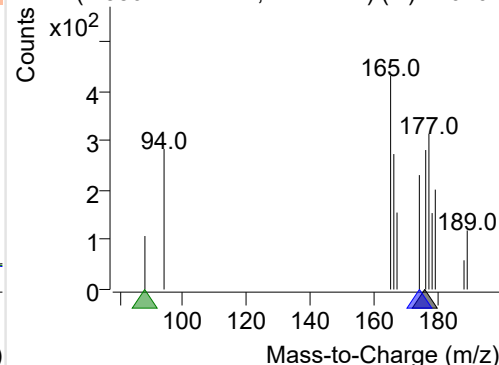
+ Selected Ion (176.0) 220707-PAHs-037.D



176.0, 174.0, 88.0

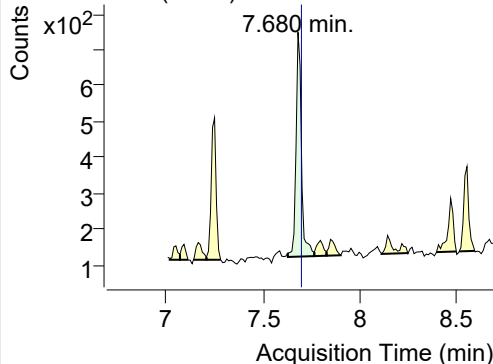


+ SIM (7.586-7.714 min, 12 scans) (**) 220707

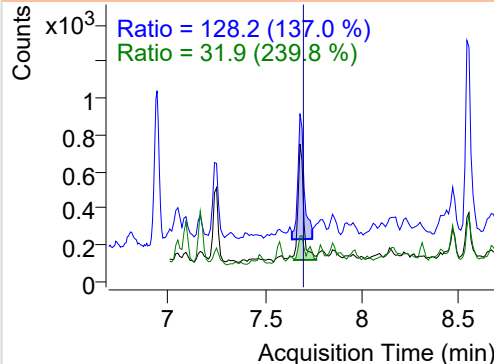


Fluorene

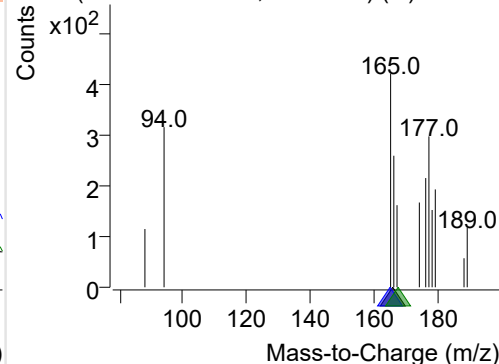
+ Selected Ion (166.0) 220707-PAHs-037.D



166.0, 165.0, 167.0

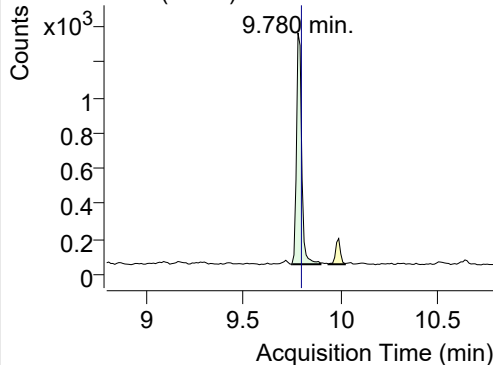


+ SIM (7.627-7.764 min, 14 scans) (**) 220707

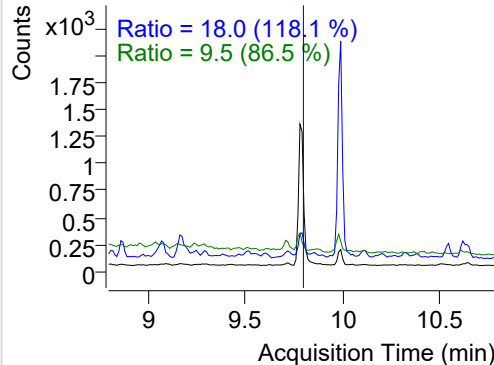


IS-D10-Phenanthrene

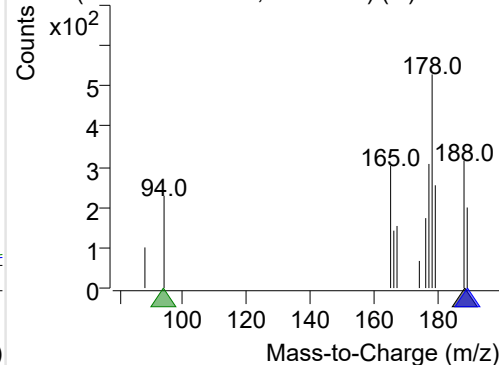
+ Selected Ion (188.0) 220707-PAHs-037.D



188.0, 189.0, 94.0

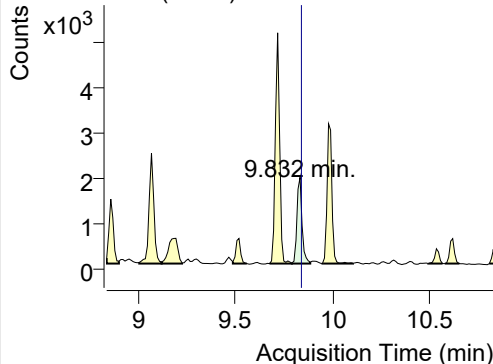


+ SIM (9.748-9.895 min, 15 scans) (**) 220707

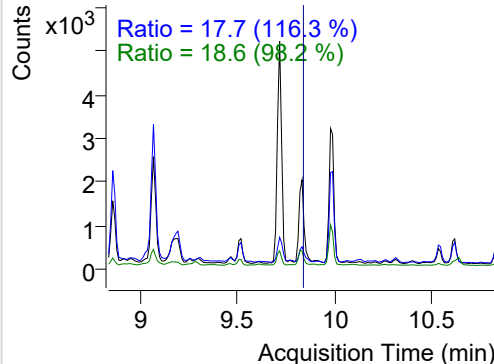


Phenanthrene

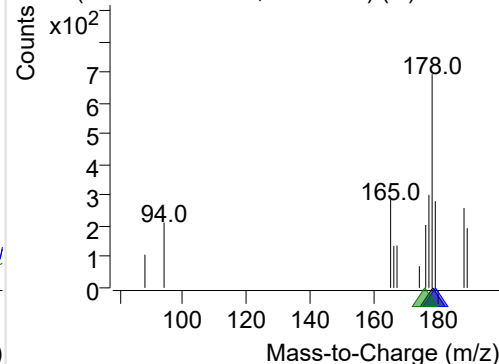
+ Selected Ion (178.0) 220707-PAHs-037.D



178.0, 179.0, 176.0

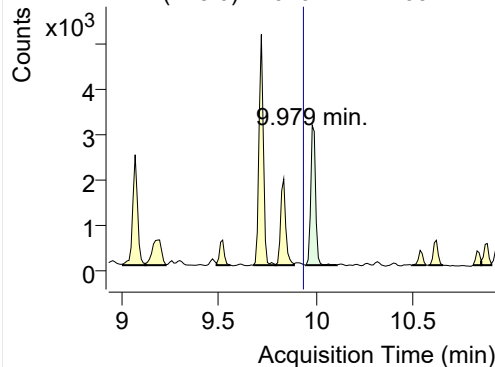


+ SIM (9.790-9.885 min, 10 scans) (**) 220707

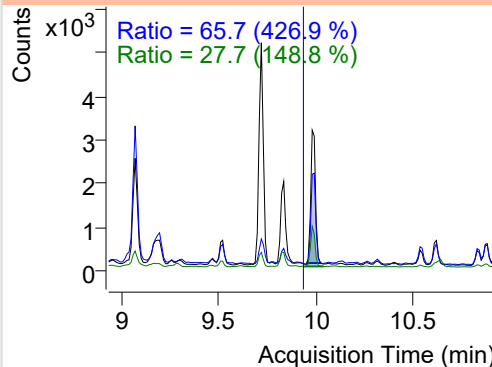


Anthracene

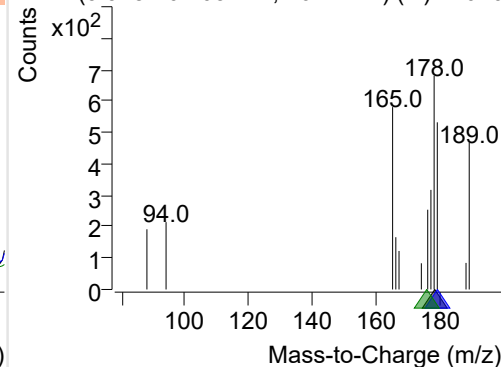
+ Selected Ion (178.0) 220707-PAHs-037.D



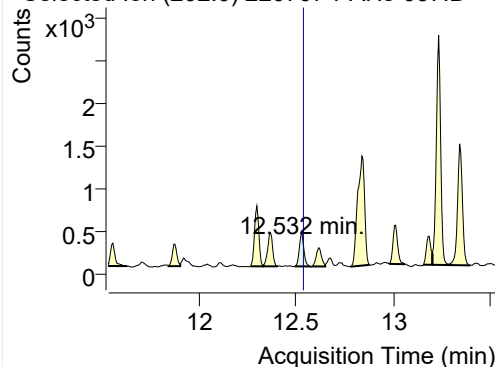
178.0, 179.0, 176.0



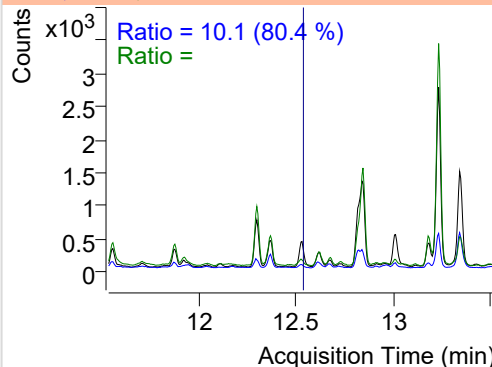
+ SIM (9.948-10.105 min, 16 scans) (**) 22070

**Fluoranthene**

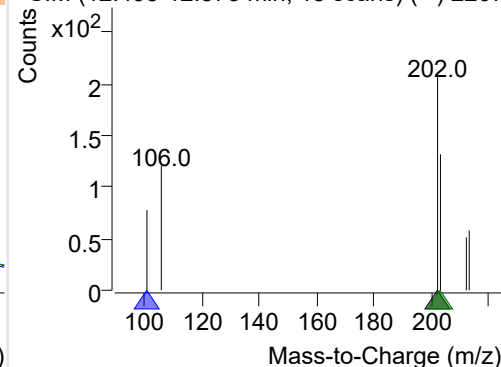
+ Selected Ion (202.0) 220707-PAHs-037.D



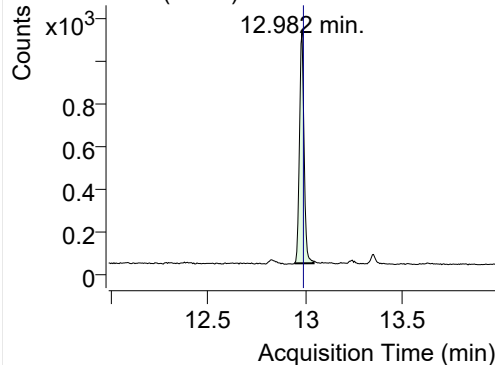
202.0, 101.0, 203.0



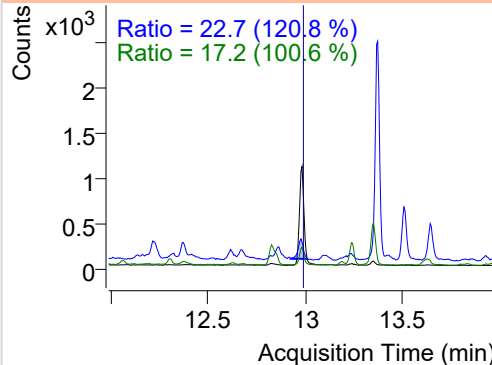
+ SIM (12.495-12.575 min, 15 scans) (**) 2207

**LSS-D10-Pyrene**

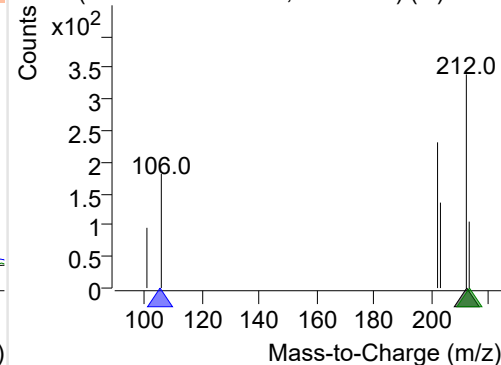
+ Selected Ion (212.0) 220707-PAHs-037.D



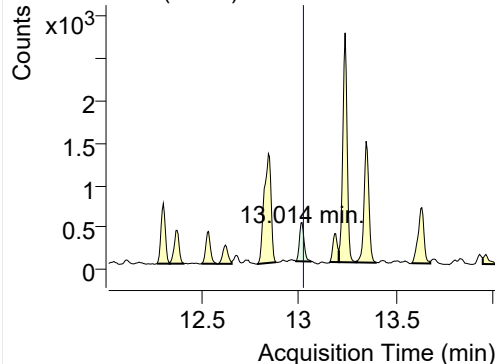
212.0, 106.0, 213.0



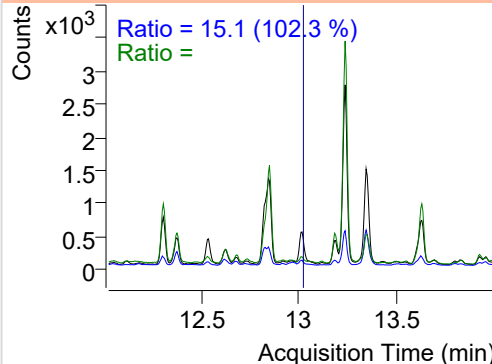
+ SIM (12.942-13.041 min, 19 scans) (**) 2207

**Pyrene**

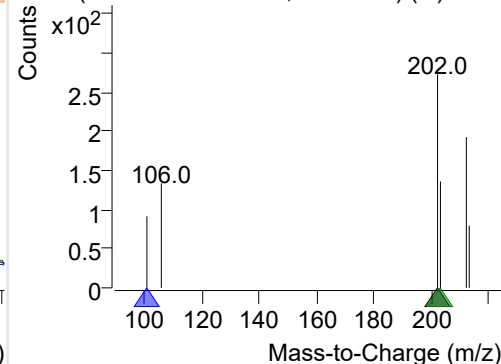
+ Selected Ion (202.0) 220707-PAHs-037.D



202.0, 101.0, 203.0



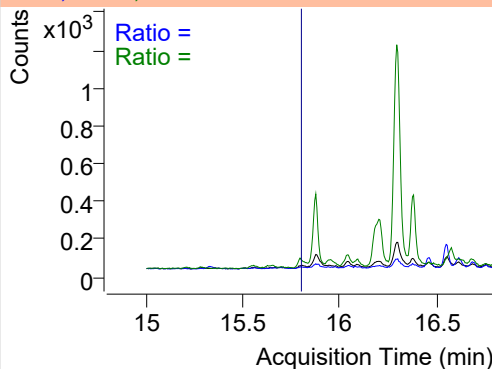
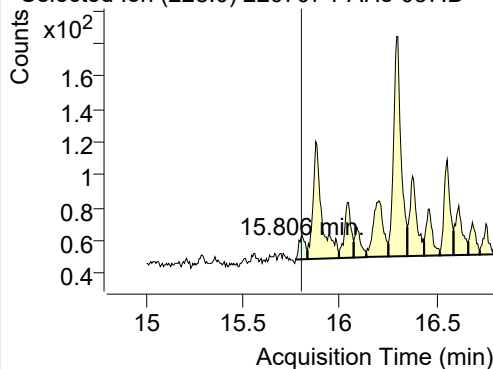
+ SIM (12.983-13.062 min, 14 scans) (**) 2207



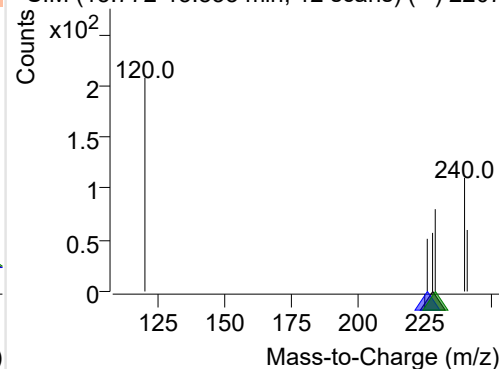
Benz(a)anthracene

+ Selected Ion (228.0) 220707-PAHs-037.D

228.0, 226.0, 229.0

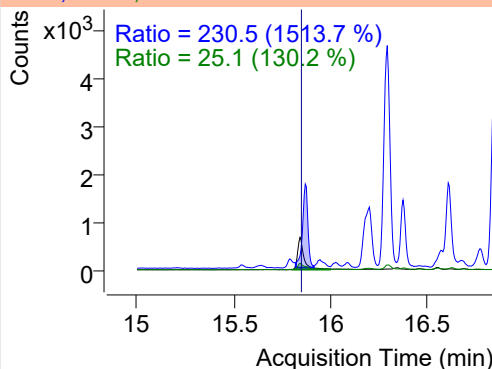
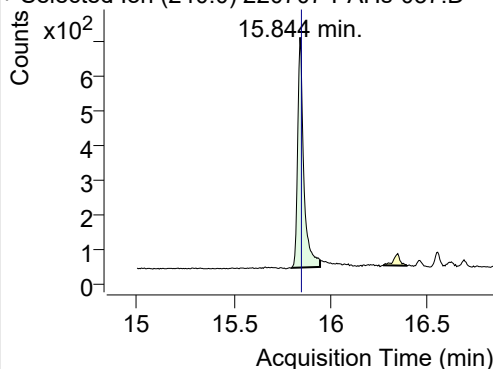


+ SIM (15.772-15.833 min, 12 scans) (**) 2207

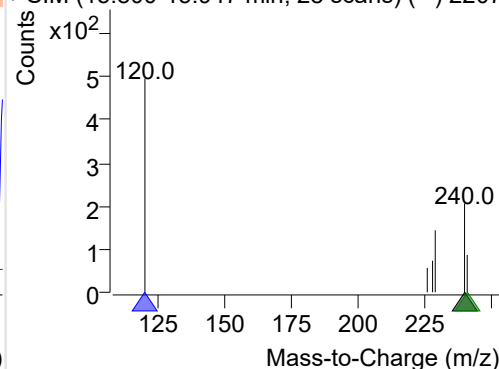
**IS-D12-Chrysene**

+ Selected Ion (240.0) 220707-PAHs-037.D

240.0, 120.0, 241.0

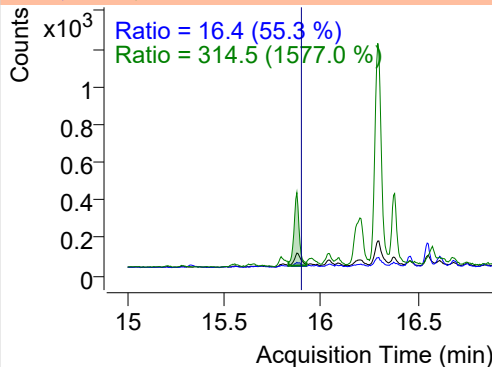
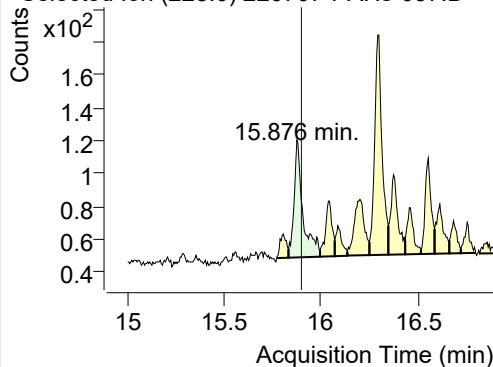


+ SIM (15.800-15.947 min, 28 scans) (**) 2207

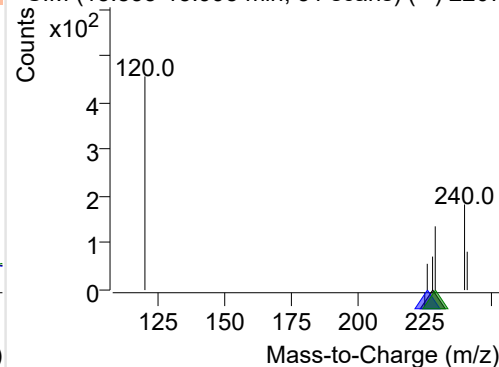
**Chrysene**

+ Selected Ion (228.0) 220707-PAHs-037.D

228.0, 226.0, 229.0

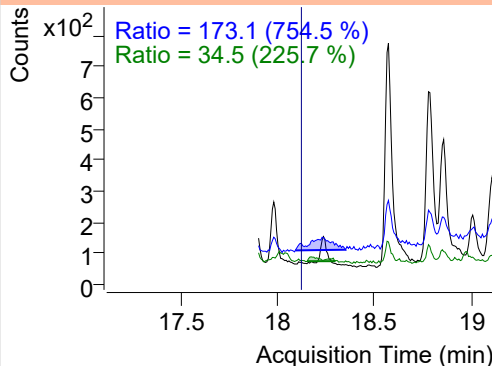
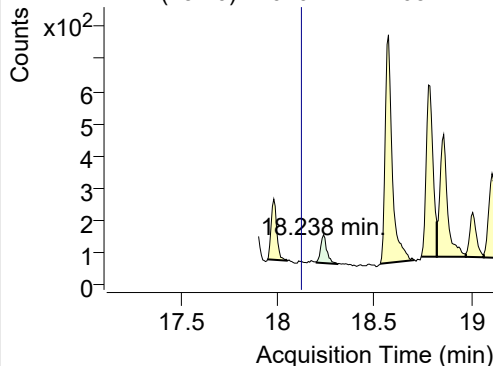


+ SIM (15.833-15.995 min, 31 scans) (**) 2207

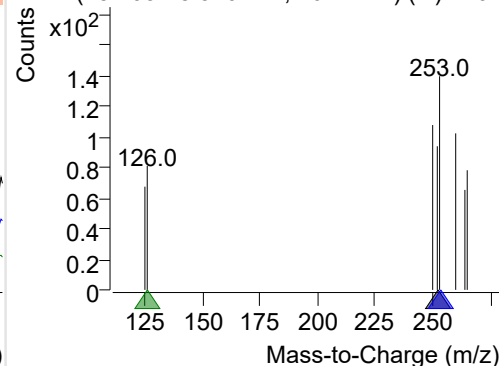
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 220707-PAHs-037.D

252.0, 253.0, 126.0



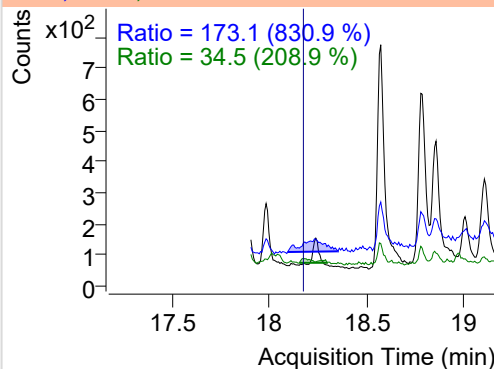
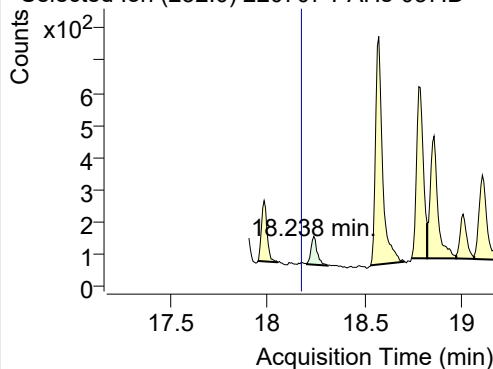
+ SIM (18.203-18.310 min, 16 scans) (**) 2207



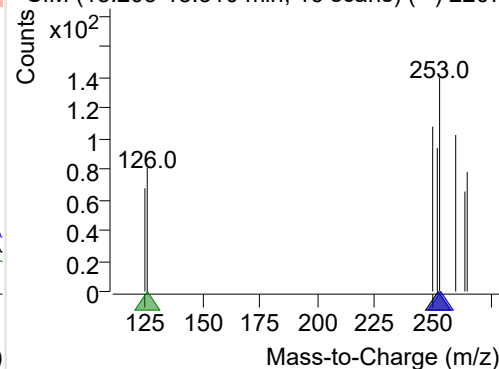
Benzo(k)fluoranthene

+ Selected Ion (252.0) 220707-PAHs-037.D

252.0, 253.0, 126.0

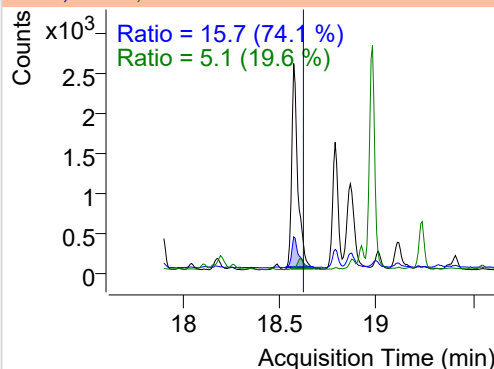
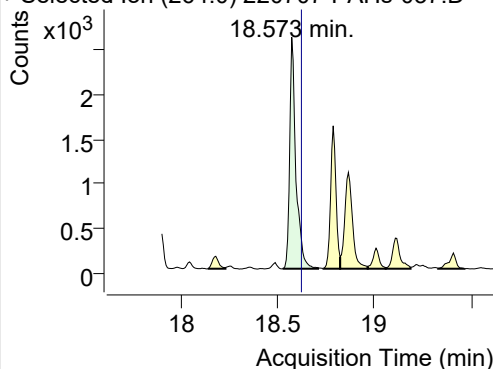


+ SIM (18.203-18.310 min, 16 scans) (**) 2207

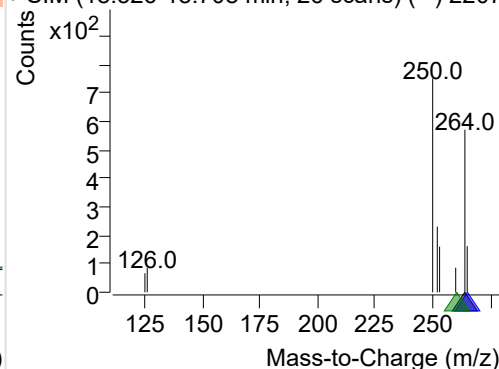
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 220707-PAHs-037.D

264.0, 265.0, 260.0

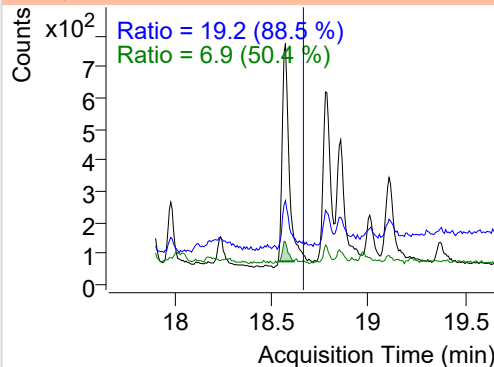
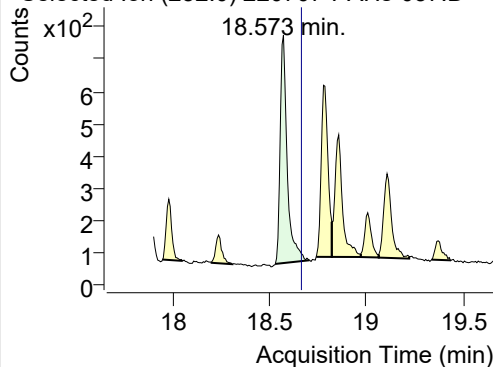


+ SIM (18.526-18.708 min, 26 scans) (**) 2207

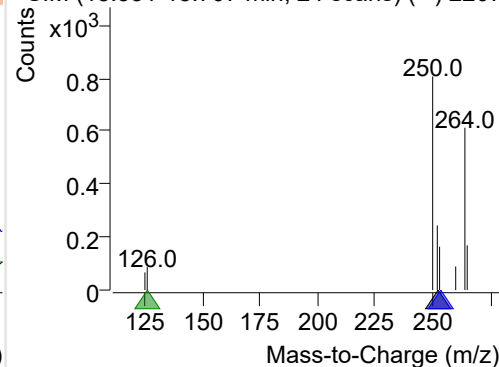
**Benzo(e)pyrene**

+ Selected Ion (252.0) 220707-PAHs-037.D

252.0, 253.0, 126.0

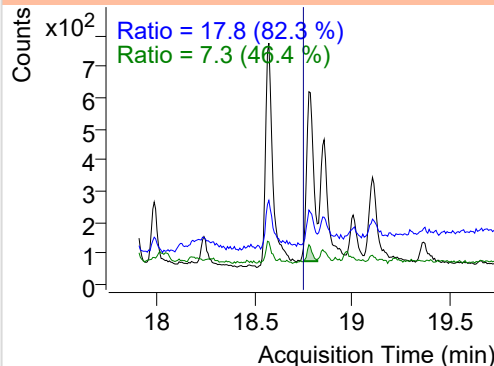
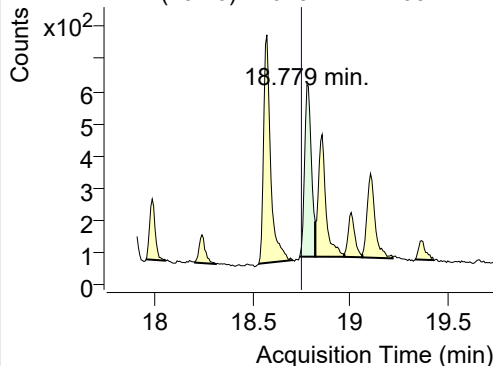


+ SIM (18.531-18.707 min, 24 scans) (**) 2207

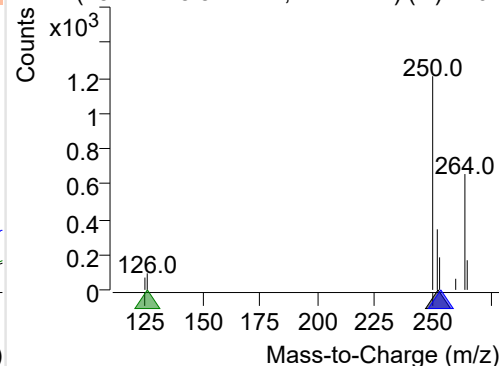
**Benzo(a)pyrene**

+ Selected Ion (252.0) 220707-PAHs-037.D

252.0, 253.0, 126.0



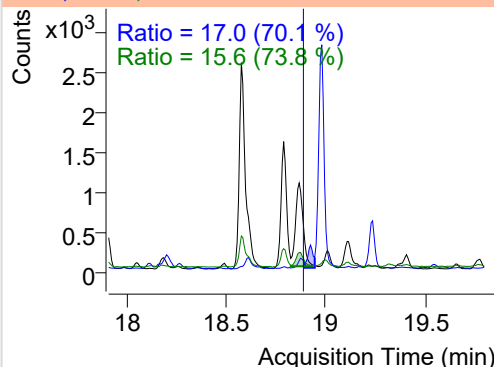
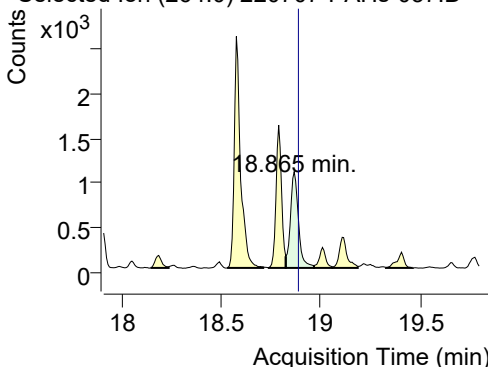
+ SIM (18.741-18.822 min, 12 scans) (**) 2207



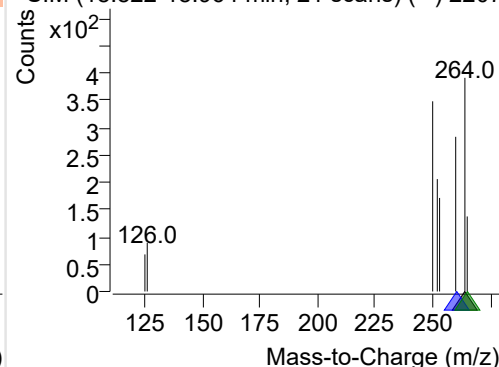
IS-D12-Perylene

+ Selected Ion (264.0) 220707-PAHs-037.D

264.0, 260.0, 265.0



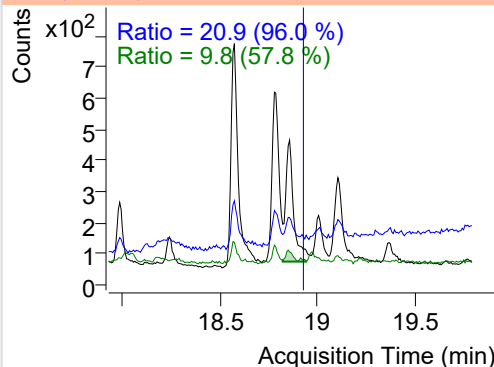
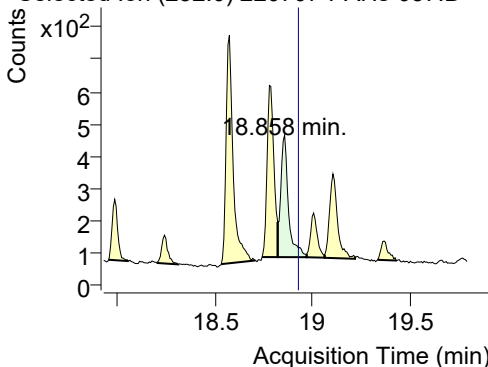
+ SIM (18.822-18.964 min, 21 scans) (**) 2207



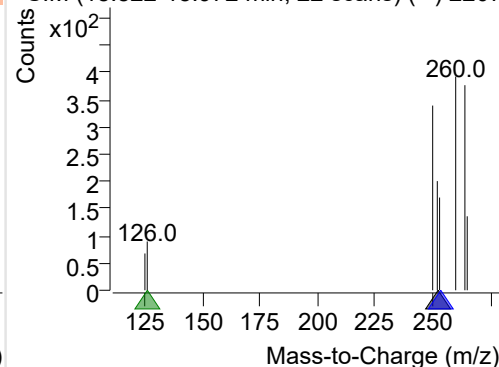
Perylene

+ Selected Ion (252.0) 220707-PAHs-037.D

252.0, 253.0, 126.0



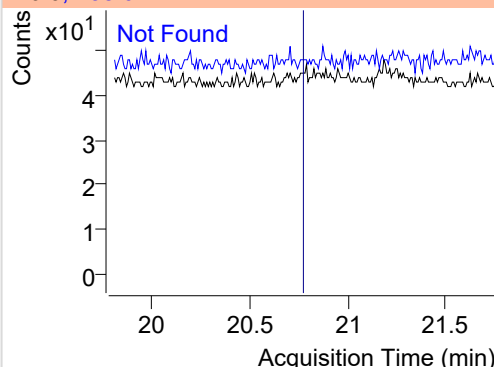
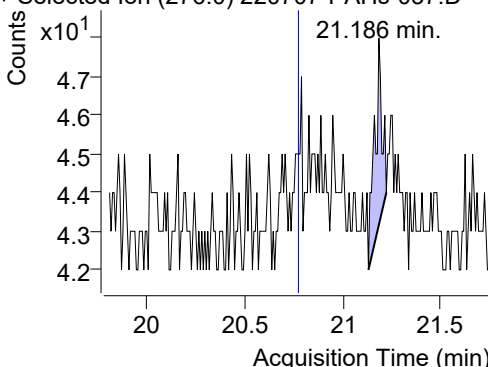
+ SIM (18.822-18.972 min, 22 scans) (**) 2207



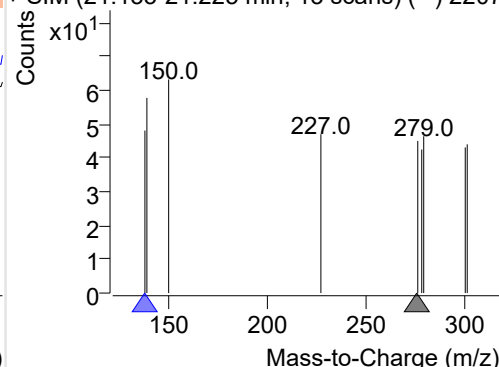
Indeno(1,2,3-c,d)pyrene

+ Selected Ion (276.0) 220707-PAHs-037.D

276.0, 138.0



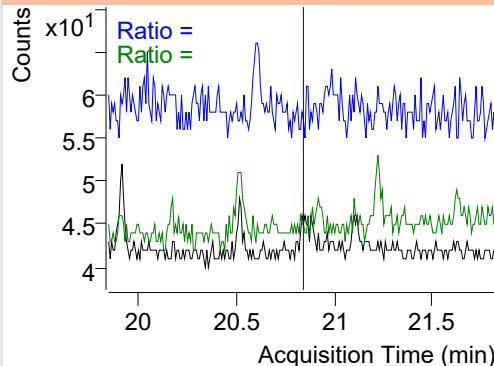
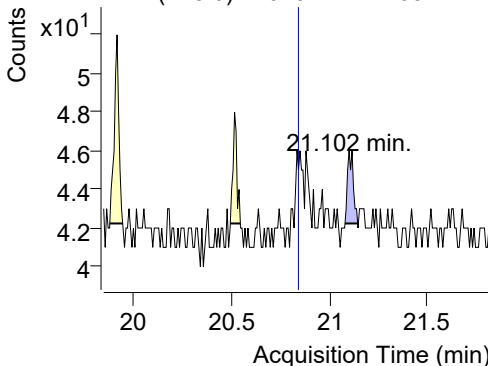
+ SIM (21.133-21.225 min, 13 scans) (**) 2207



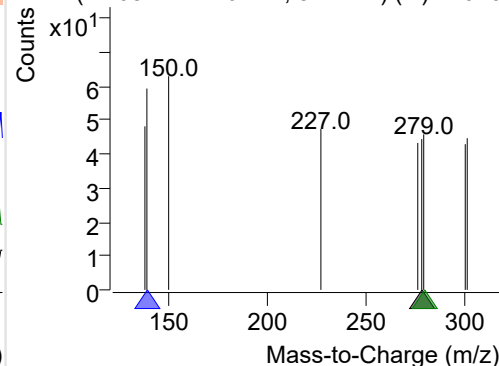
Dibenz(a,h)anthracene

+ Selected Ion (278.0) 220707-PAHs-037.D

278.0, 139.0, 279.0



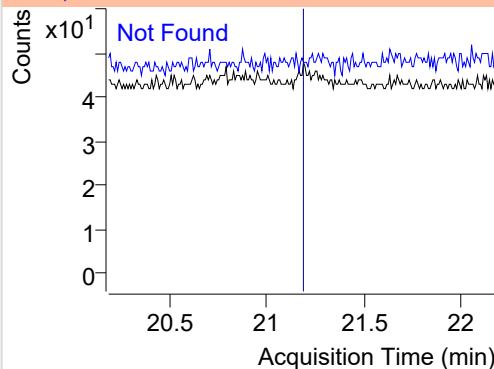
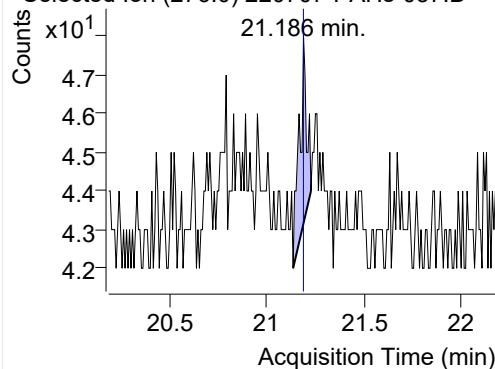
+ SIM (21.081-21.146 min, 8 scans) (**) 2207



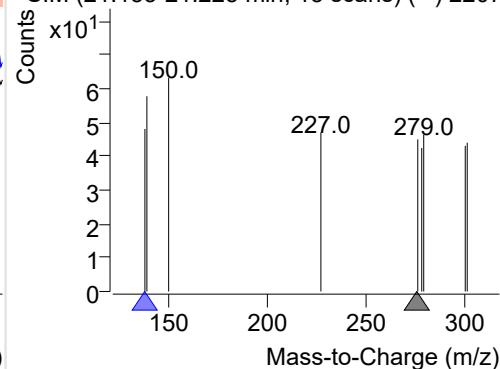
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 220707-PAHs-037.D

276.0, 138.0

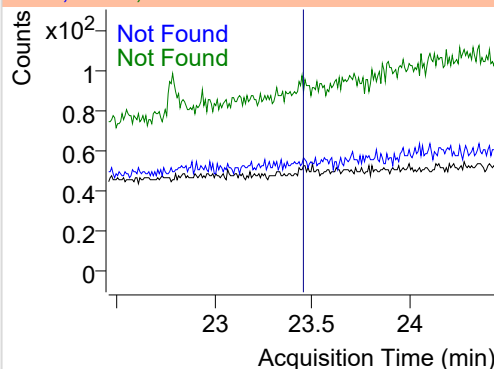
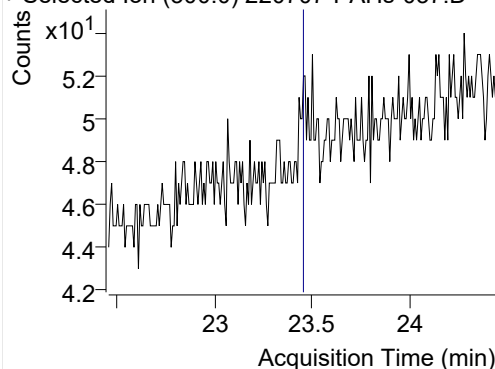


+ SIM (21.133-21.225 min, 13 scans) (**) 2207

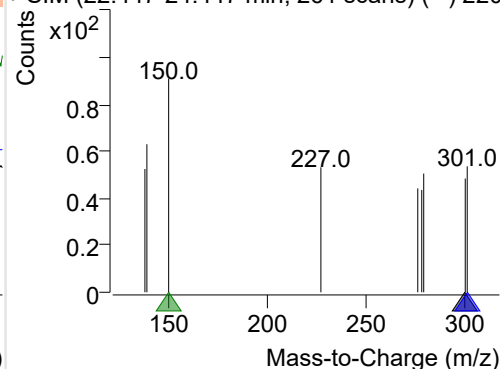
**Coronene**

+ Selected Ion (300.0) 220707-PAHs-037.D

300.0, 301.0, 150.0



+ SIM (22.447-24.447 min, 261 scans) (**) 220



Quantitative Analysis Sample Based Report

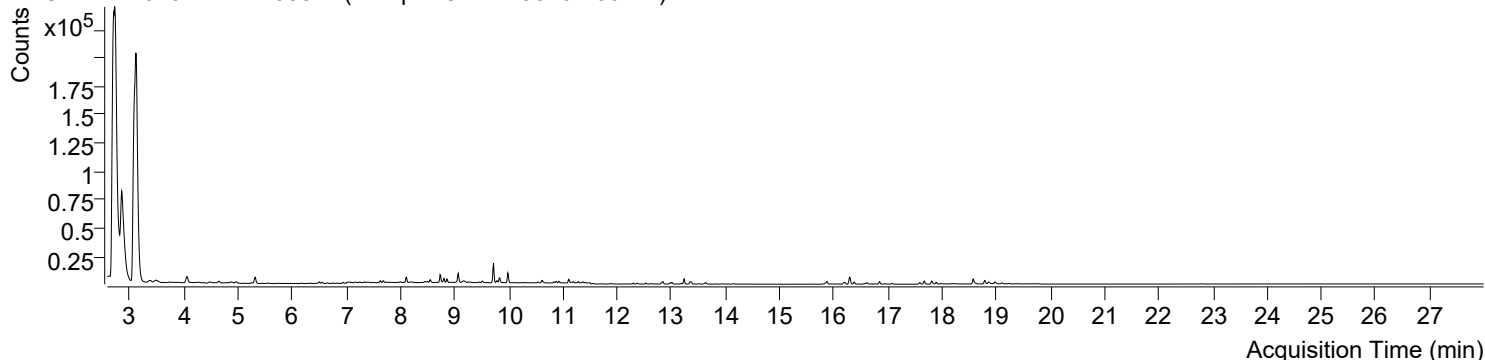


Trusted Answers

| | | | |
|---------------------------|--|-----------------------|--------------------------|
| Batch Data Path File Name | D:\MassHunter\GCMS\1\data\PAHs\220707-PAHs-Sample\QuantResults\220707-PAHs-Quant.batch.bin | | |
| Analysis Time Stamp | 2022-07-09 오전 11:12:52 | Analyst Name | DESKTOP-86B7UPG\5975MS |
| Report Generation Time | 2022-07-09 오전 11:13:20 | Report Generator Name | DESKTOP-86B7UPG\5975MS |
| Calibration Last Update | 2022-07-09 오전 11:04:15 | Batch State | Processed |
| Analyze Quant Version | 10.2 | Report Quant Version | 10.2 |
| Acq. Date-Time | 2022-07-08 오전 8:30:21 | Data File | 220707-PAHs-038.D |
| Type | Sample | Name | Sample-Gas-220616-100DIL |
| Dil. | 1 | Acq. Method File | PAHs 19mix-Method |

Sample Chromatogram

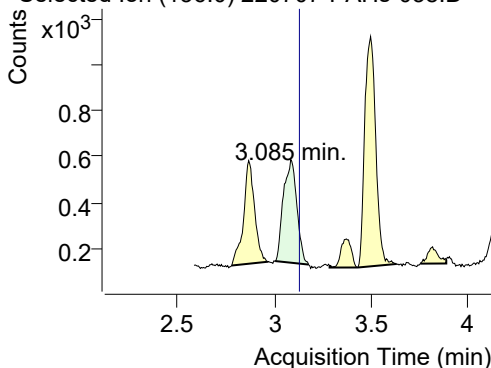
+ TIC SIM 220707-PAHs-038.D (Sample-Gas-220616-100DIL)



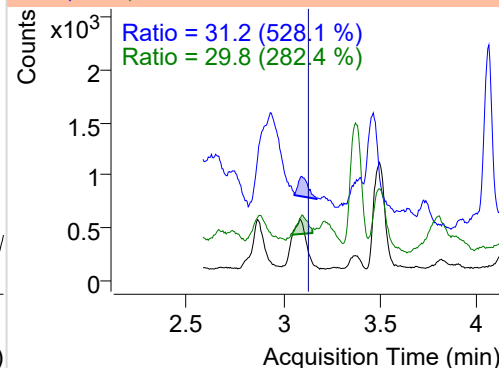
| Name | RT | Transition | Resp. | Height | Final Conc. Units | Ratio |
|-------------------------|--------|------------|--------|-----------|-------------------|-------|
| IS-D8-Naphthalene | 3.085 | 136.0 | 2137 | 448.09 | ND ng/ml | 29.8 |
| Naphthalene | 3.118 | 128.0 | 821905 | 162909.83 | ND ng/ml | 11.8 |
| Acenaphthylene | 6.167 | 152.0 | 513 | 270.77 | ND ng/ml | 30.9 |
| IS-D10-Acenaphthene | 6.499 | 164.0 | 1466 | 709.83 | ND ng/ml | 90.1 |
| Acenaphthene | 6.558 | 154.0 | 528 | 259.40 | ND ng/ml | 98.5 |
| LSS-D10-Fluorene | 7.627 | 176.0 | 1123 | 681.57 | ND ng/ml | 91.6 |
| Fluorene | 7.680 | 166.0 | 1303 | 720.44 | ND ng/ml | 118.4 |
| IS-D10-Phenanthrene | 9.780 | 188.0 | 2226 | 1218.71 | ND ng/ml | 26.2 |
| Phenanthrene | 9.833 | 178.0 | 4946 | 2698.18 | ND ng/ml | 20.9 |
| Anthracene | 9.980 | 178.0 | 3812 | 2260.18 | ND ng/ml | 28.9 |
| Fluoranthene | 12.526 | 202.0 | 1339 | 769.80 | ND ng/ml | 16.7 |
| LSS-D10-Pyrene | 12.982 | 212.0 | 1433 | 839.16 | ND ng/ml | 20.5 |
| Pyrene | 13.014 | 202.0 | 1580 | 981.08 | ND ng/ml | 15.7 |
| Benz(a)anthracene | 15.806 | 228.0 | 28 | 14.18 | ND ng/ml | 26.0 |
| IS-D12-Chrysene | 15.844 | 240.0 | 1339 | 570.73 | ND ng/ml | 24.5 |
| Chrysene | 15.882 | 228.0 | 252 | 90.73 | ND ng/ml | 32.3 |
| Benzo(b)fluoranthene | 18.238 | 252.0 | 139 | 61.44 | ND ng/ml | 142.5 |
| Benzo(k)fluoranthene | 18.238 | 252.0 | 139 | 61.44 | ND ng/ml | 142.5 |
| SS-D12-Benzo(e)pyrene | 18.573 | 264.0 | 3368 | 1287.00 | ND ng/ml | 7.7 |
| Benzo(e)pyrene | 18.573 | 252.0 | 1321 | 515.97 | ND ng/ml | 18.0 |
| Benzo(a)pyrene | 18.787 | 252.0 | 987 | 400.70 | ND ng/ml | 16.0 |
| IS-D12-Perylene | 18.865 | 264.0 | 1838 | 649.00 | ND ng/ml | 10.6 |
| Perylene | 18.858 | 252.0 | 860 | 285.19 | ND ng/ml | 12.6 |
| Indeno(1,2,3-c,d)pyrene | 21.217 | 276.0 | 6 | 2.69 | ND ng/ml | |
| Dibenz(a,h)anthracene | 20.515 | 278.0 | 10 | 5.96 | ND ng/ml | 125.9 |
| Benzo(g,h,i)perylene | 21.217 | 276.0 | 6 | 2.69 | ND ng/ml | |
| Coronene | 23.462 | 300.0 | 25 | 6.29 | ND ng/ml | |

IS-D8-Naphthalene

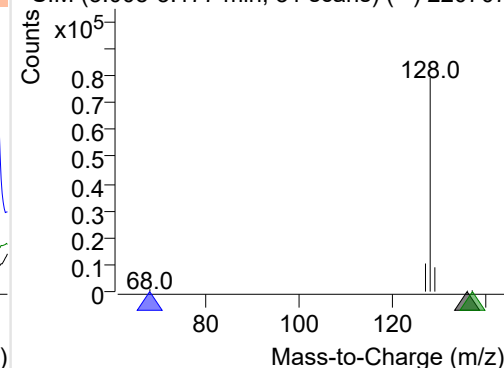
+ Selected Ion (136.0) 220707-PAHs-038.D



136.0, 68.0, 137.0

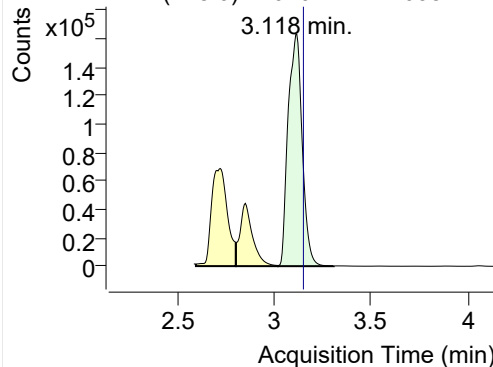


+ SIM (3.005-3.177 min, 31 scans) (**) 220707

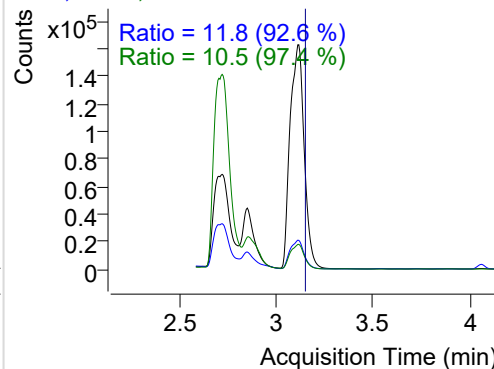


Naphthalene

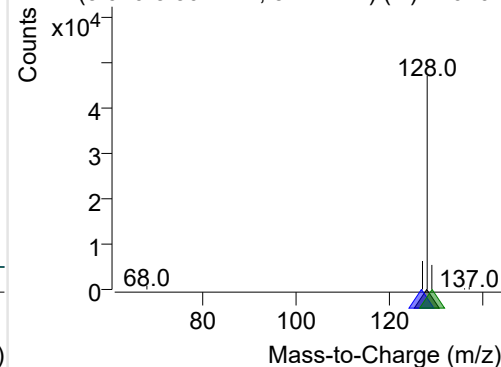
+ Selected Ion (128.0) 220707-PAHs-038.D



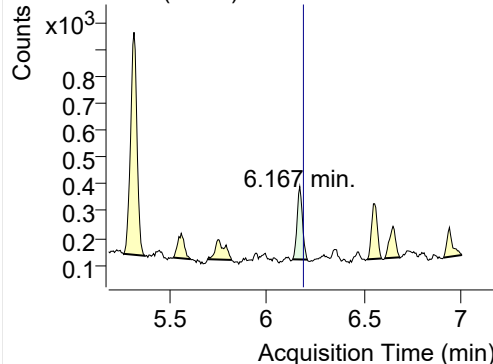
128.0, 127.0, 129.0



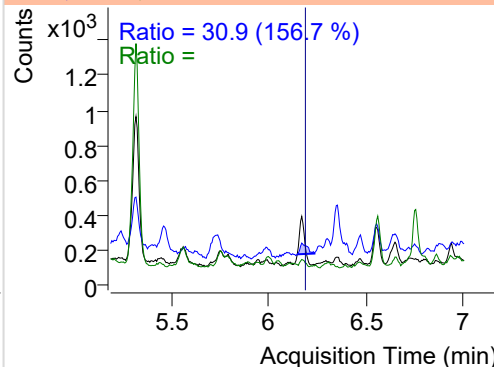
+ SIM (3.020-3.307 min, 54 scans) (**) 220707

**Acenaphthylene**

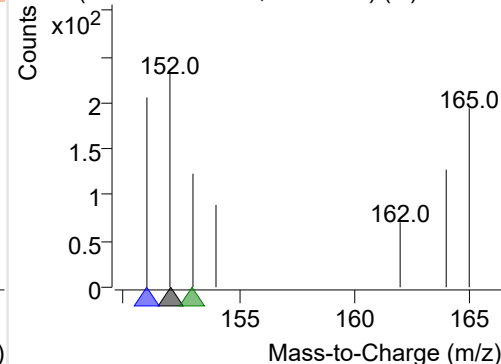
+ Selected Ion (152.0) 220707-PAHs-038.D



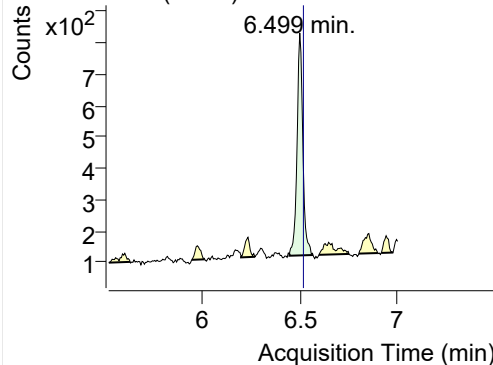
152.0, 151.0, 153.0



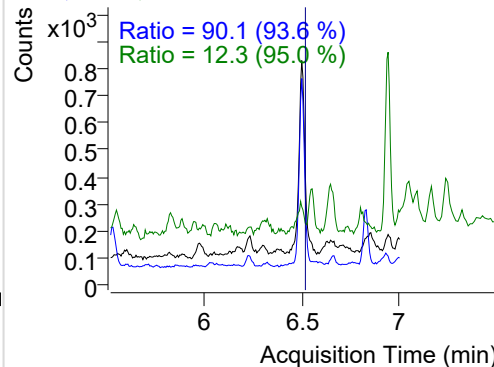
+ SIM (6.131-6.206 min, 13 scans) (**) 220707

**IS-D10-Acenaphthene**

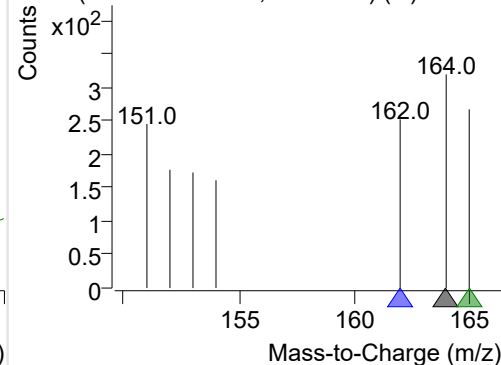
+ Selected Ion (164.0) 220707-PAHs-038.D



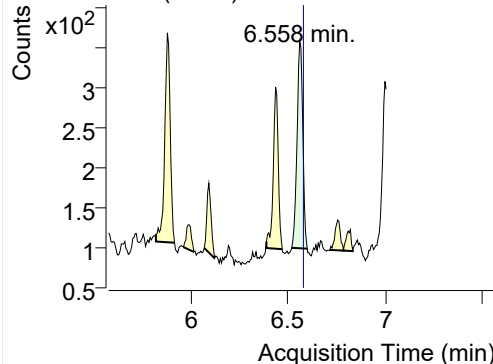
164.0, 162.0, 165.0



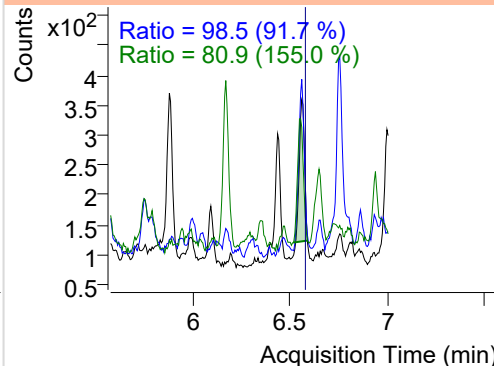
+ SIM (6.445-6.567 min, 21 scans) (**) 220707

**Acenaphthene**

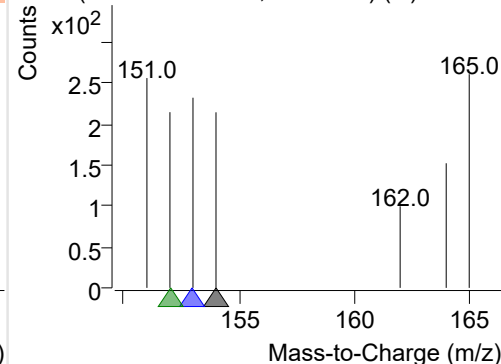
+ Selected Ion (154.0) 220707-PAHs-038.D



154.0, 153.0, 152.0

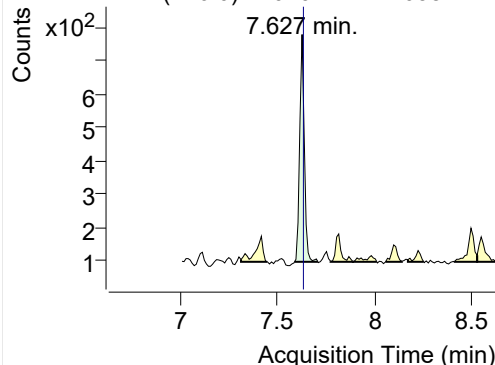


+ SIM (6.517-6.597 min, 13 scans) (**) 220707

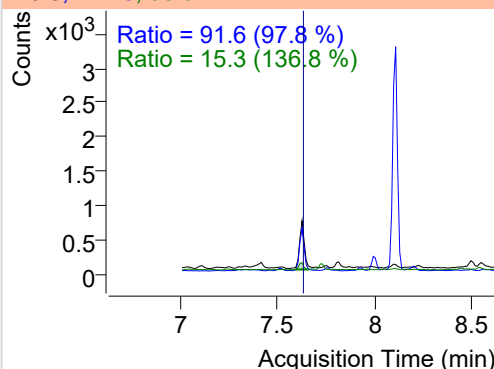


LSS-D10-Fluorene

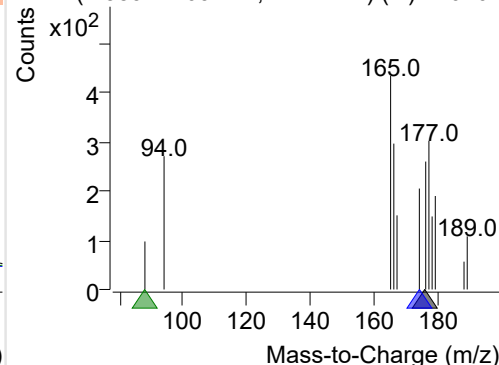
+ Selected Ion (176.0) 220707-PAHs-038.D



176.0, 174.0, 88.0

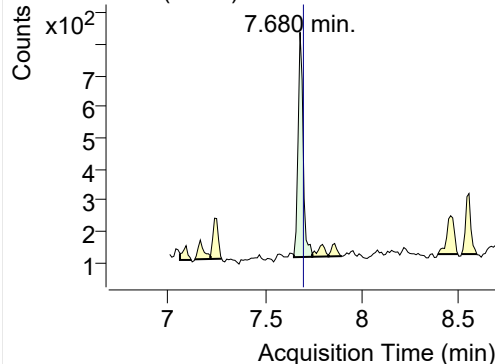


+ SIM (7.589-7.709 min, 11 scans) (**) 220707

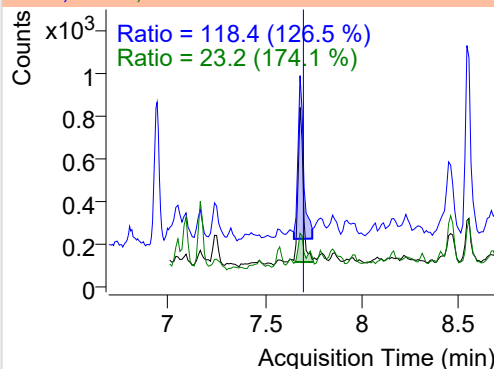


Fluorene

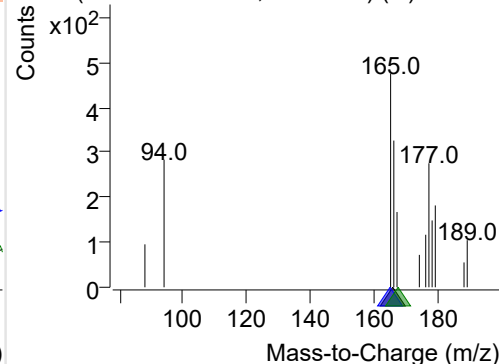
+ Selected Ion (166.0) 220707-PAHs-038.D



166.0, 165.0, 167.0

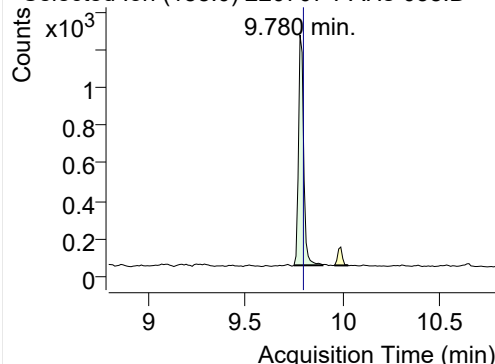


+ SIM (7.648-7.743 min, 10 scans) (**) 220707

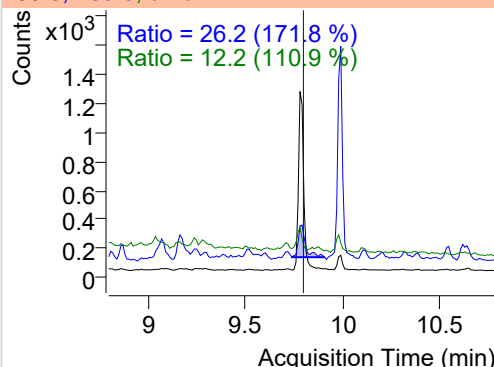


IS-D10-Phenanthrene

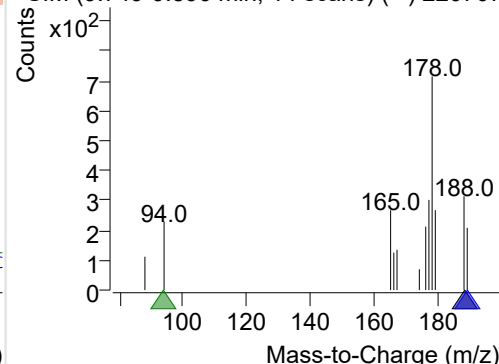
+ Selected Ion (188.0) 220707-PAHs-038.D



188.0, 189.0, 94.0

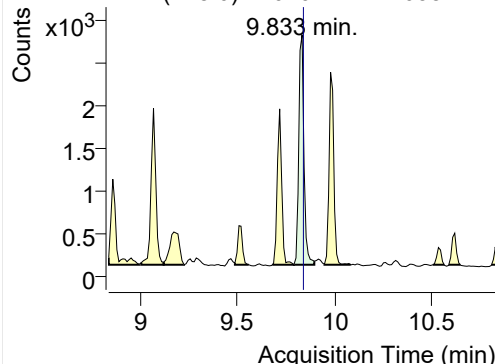


+ SIM (9.749-9.896 min, 14 scans) (**) 220707

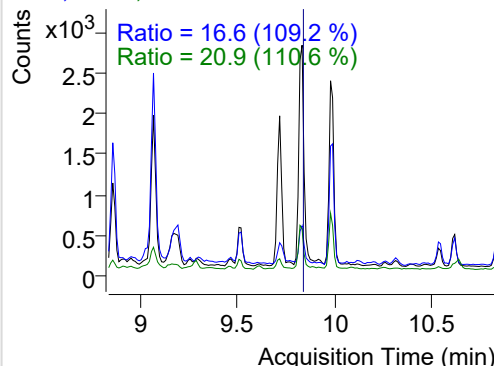


Phenanthrene

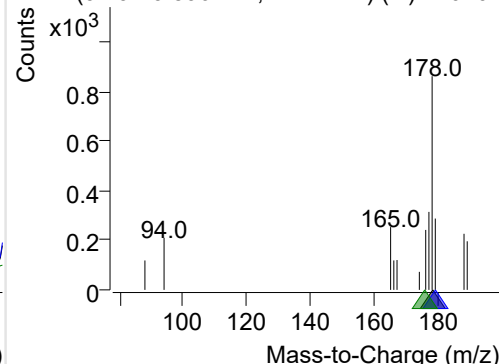
+ Selected Ion (178.0) 220707-PAHs-038.D



178.0, 179.0, 176.0

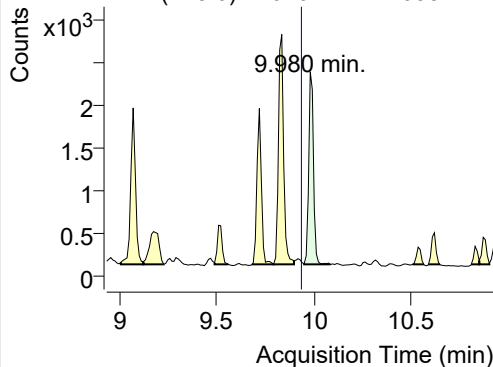


+ SIM (9.791-9.896 min, 11 scans) (**) 220707

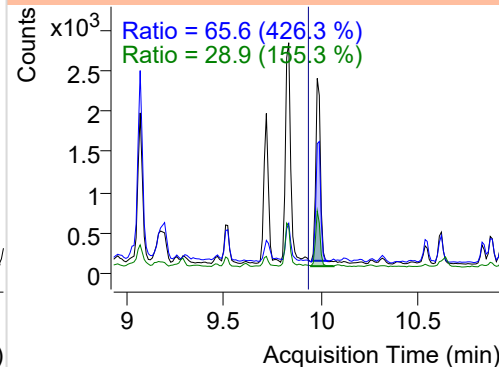


Anthracene

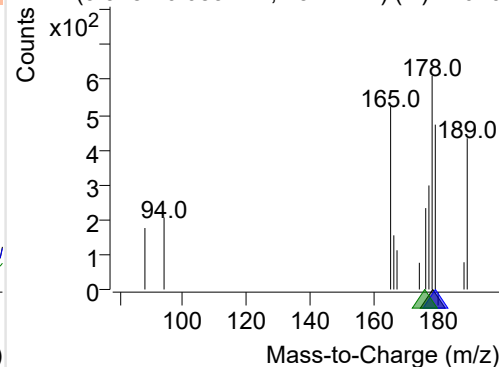
+ Selected Ion (178.0) 220707-PAHs-038.D



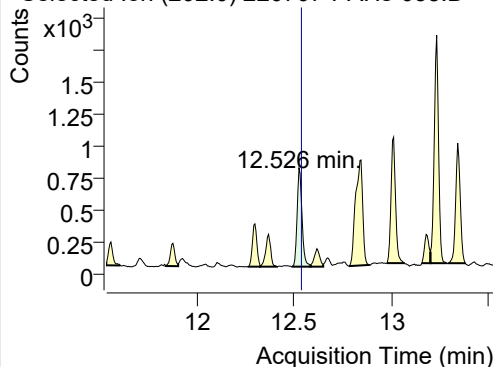
178.0, 179.0, 176.0



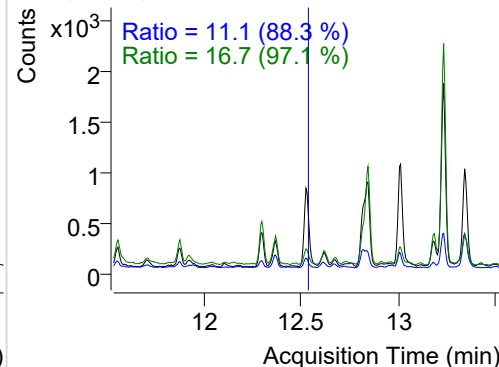
+ SIM (9.948-10.083 min, 13 scans) (**) 22070

**Fluoranthene**

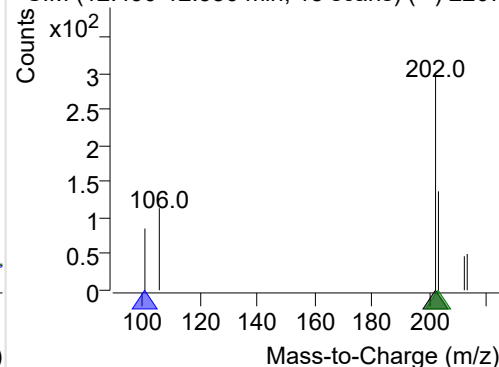
+ Selected Ion (202.0) 220707-PAHs-038.D



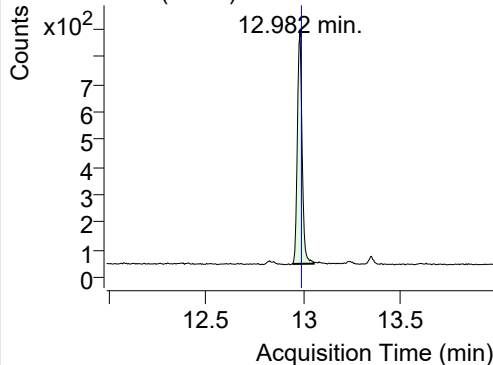
202.0, 101.0, 203.0



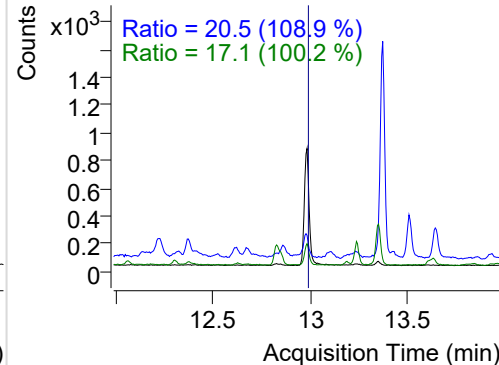
+ SIM (12.490-12.586 min, 18 scans) (**) 2207

**LSS-D10-Pyrene**

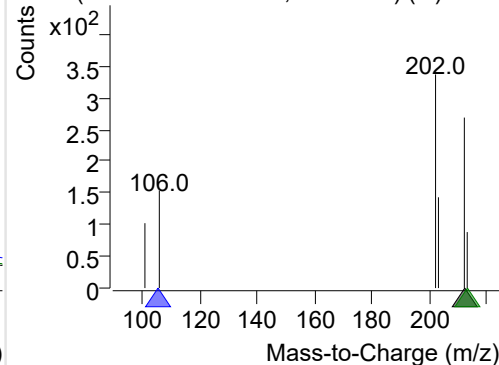
+ Selected Ion (212.0) 220707-PAHs-038.D



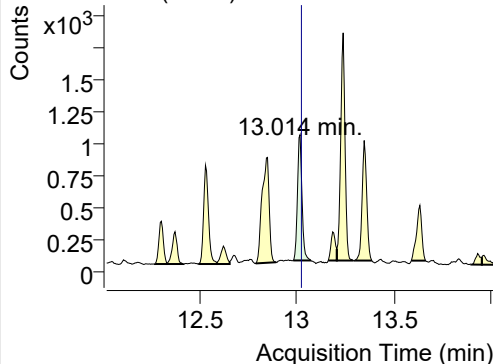
212.0, 106.0, 213.0



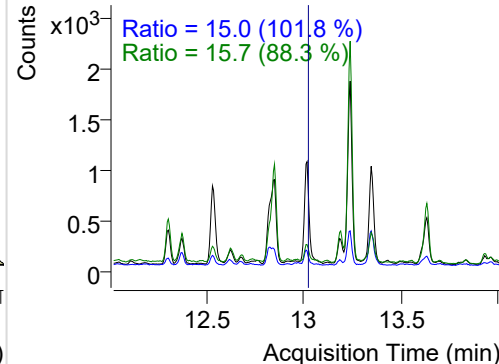
+ SIM (12.944-13.052 min, 20 scans) (**) 2207

**Pyrene**

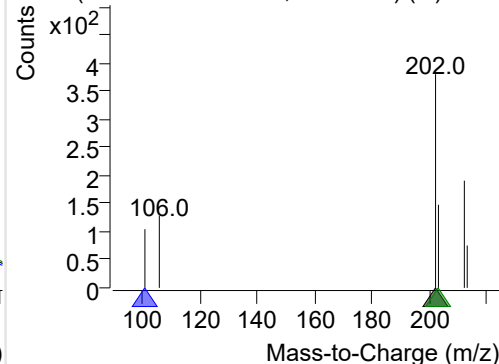
+ Selected Ion (202.0) 220707-PAHs-038.D



202.0, 101.0, 203.0



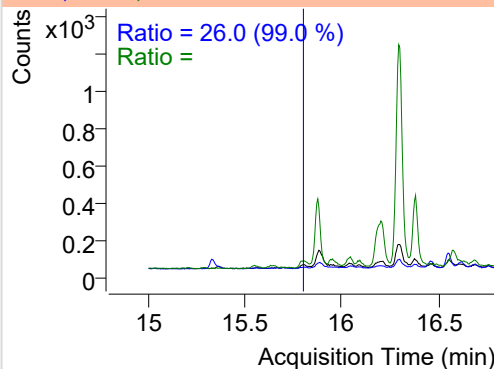
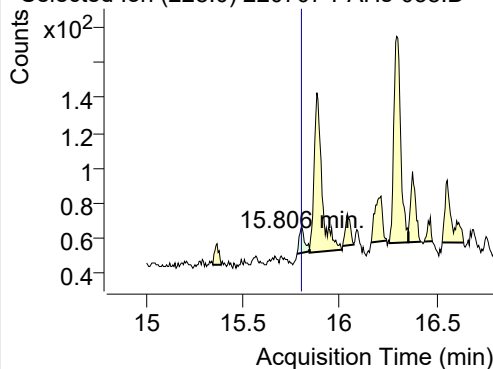
+ SIM (12.979-13.070 min, 17 scans) (**) 2207



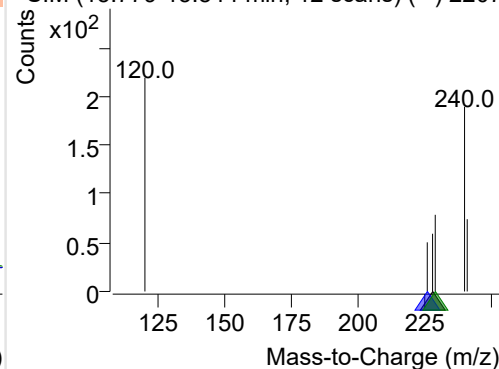
Benz(a)anthracene

+ Selected Ion (228.0) 220707-PAHs-038.D

228.0, 226.0, 229.0

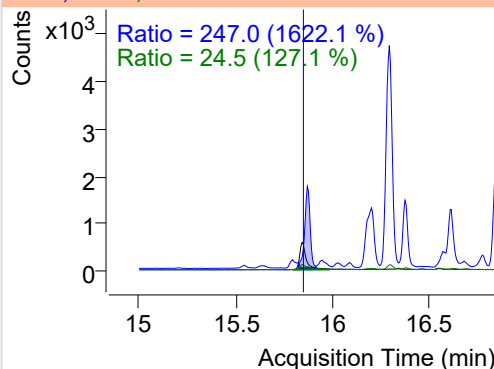
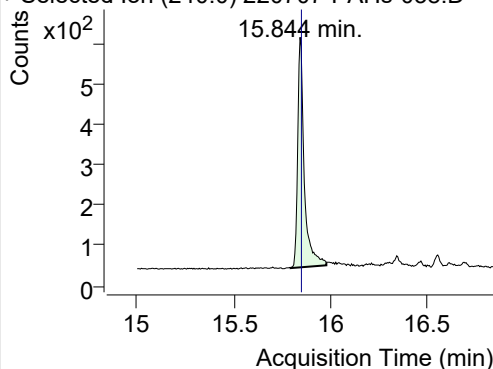


+ SIM (15.779-15.844 min, 12 scans) (**) 2207

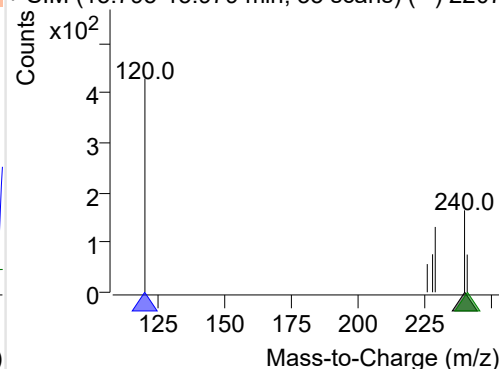
**IS-D12-Chrysene**

+ Selected Ion (240.0) 220707-PAHs-038.D

240.0, 120.0, 241.0

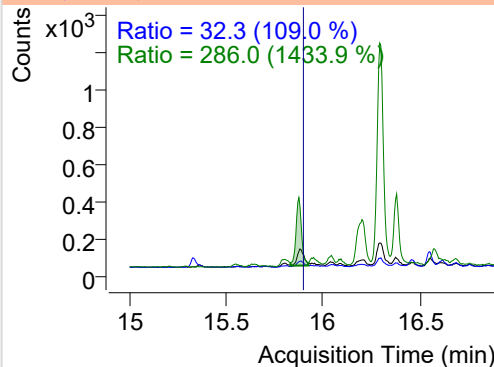
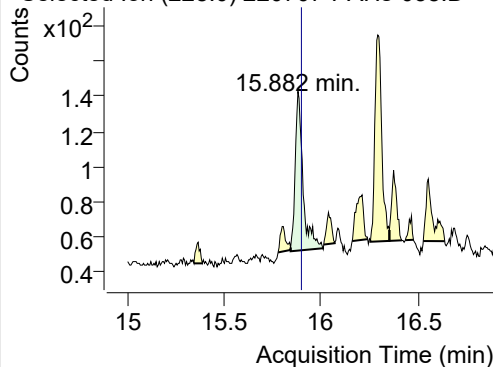


+ SIM (15.795-15.979 min, 35 scans) (**) 2207

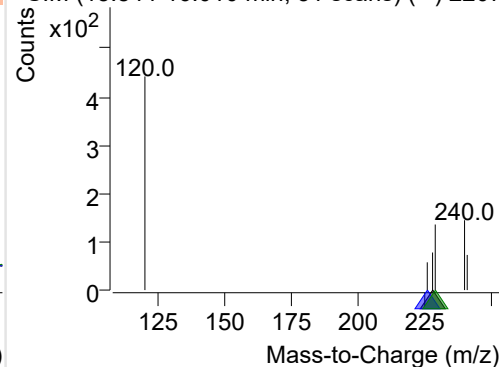
**Chrysene**

+ Selected Ion (228.0) 220707-PAHs-038.D

228.0, 226.0, 229.0

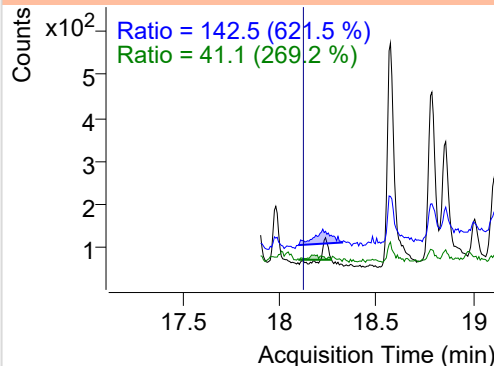
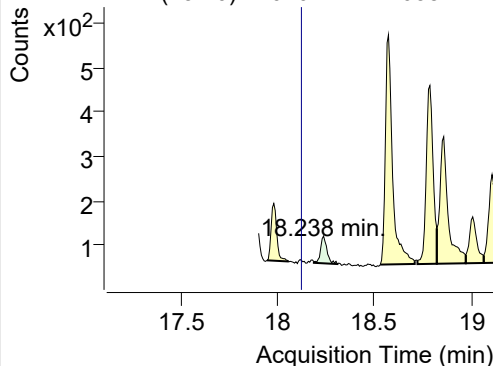


+ SIM (15.844-16.010 min, 31 scans) (**) 2207

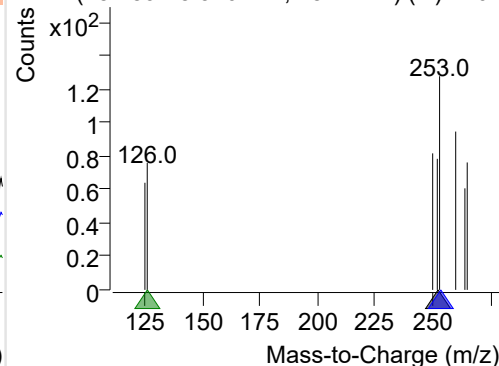
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 220707-PAHs-038.D

252.0, 253.0, 126.0



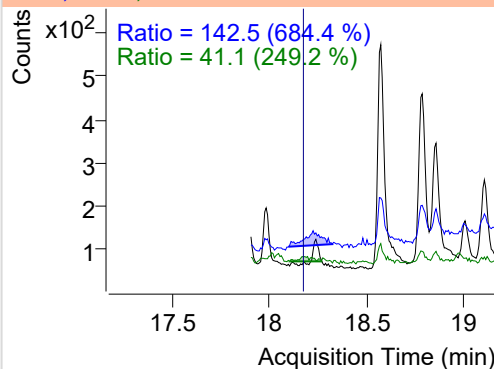
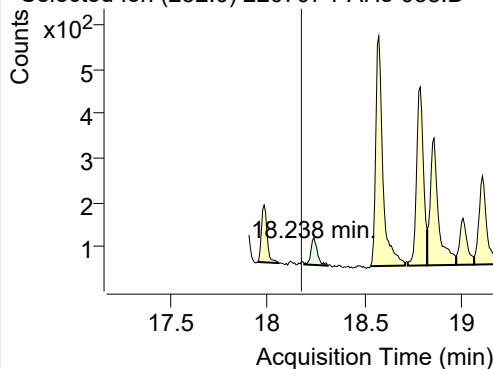
+ SIM (18.189-18.310 min, 18 scans) (**) 2207



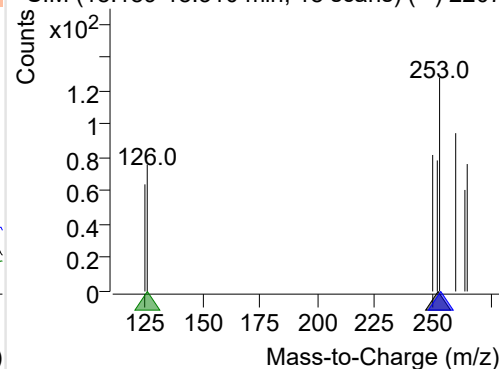
Benzo(k)fluoranthene

+ Selected Ion (252.0) 220707-PAHs-038.D

252.0, 253.0, 126.0

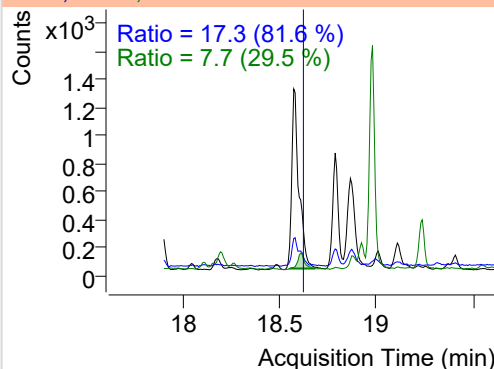
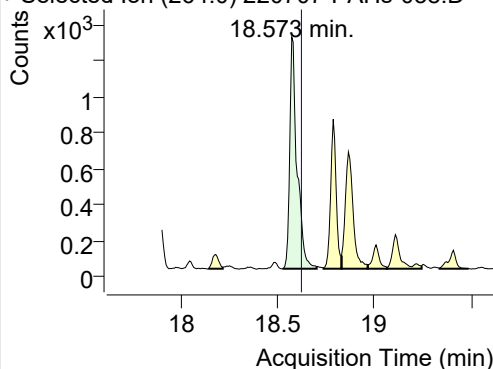


+ SIM (18.189-18.310 min, 18 scans) (**) 2207

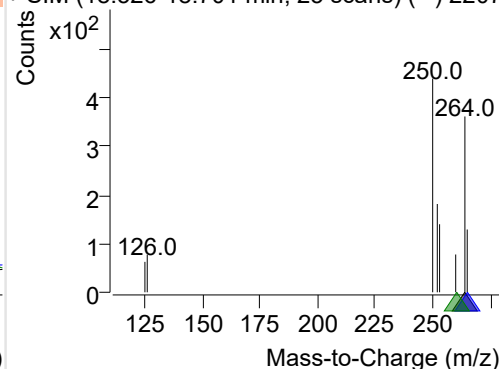
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 220707-PAHs-038.D

264.0, 265.0, 260.0

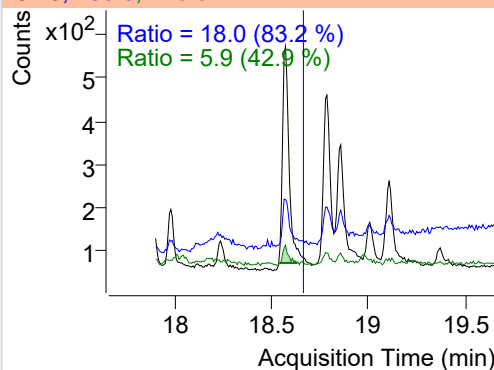
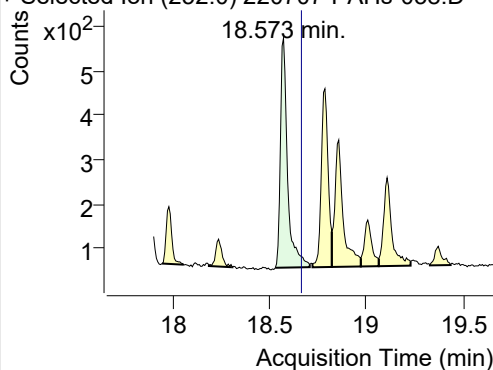


+ SIM (18.526-18.701 min, 25 scans) (**) 2207

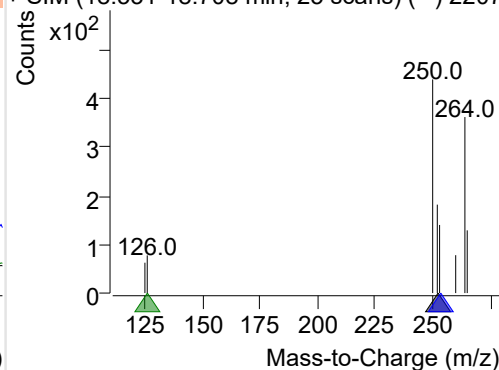
**Benzo(e)pyrene**

+ Selected Ion (252.0) 220707-PAHs-038.D

252.0, 253.0, 126.0

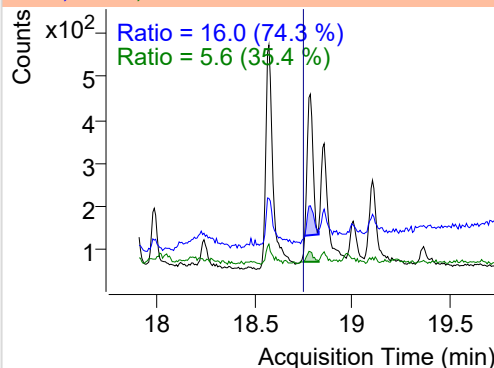
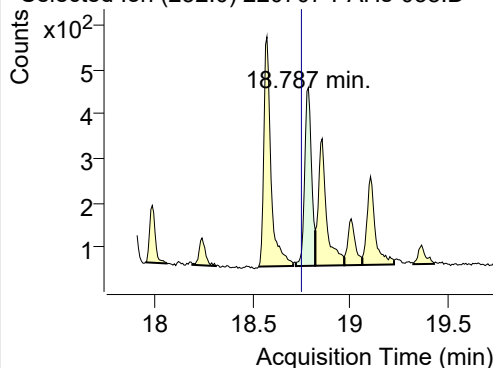


+ SIM (18.531-18.708 min, 25 scans) (**) 2207

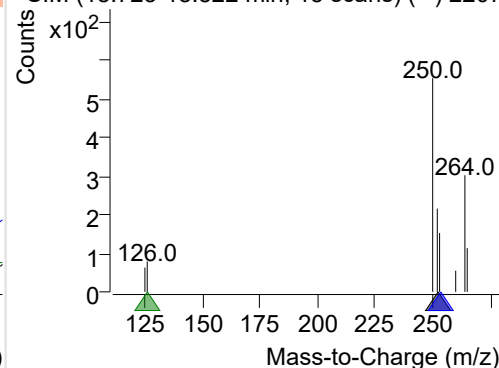
**Benzo(a)pyrene**

+ Selected Ion (252.0) 220707-PAHs-038.D

252.0, 253.0, 126.0



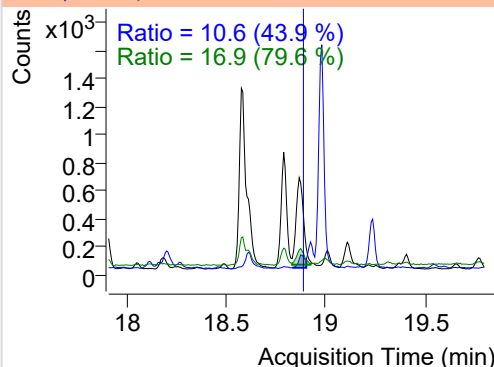
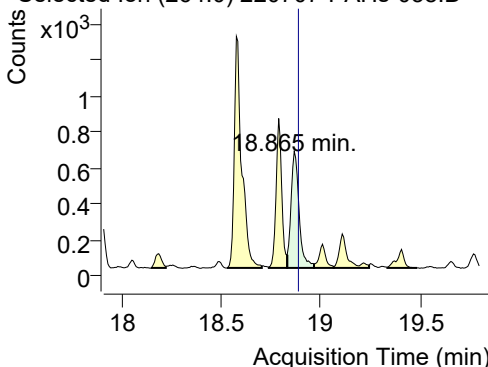
+ SIM (18.723-18.822 min, 15 scans) (**) 2207



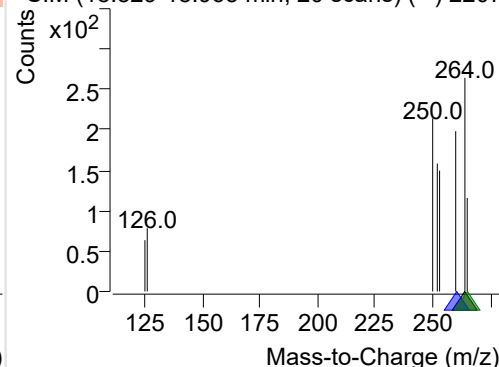
IS-D12-Perylene

+ Selected Ion (264.0) 220707-PAHs-038.D

264.0, 260.0, 265.0



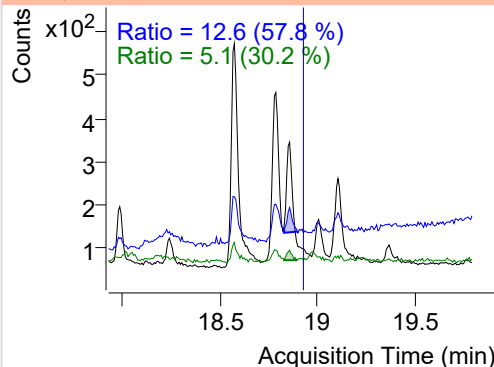
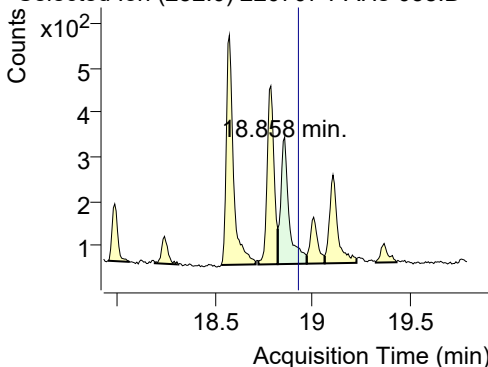
+ SIM (18.829-18.965 min, 20 scans) (**) 2207



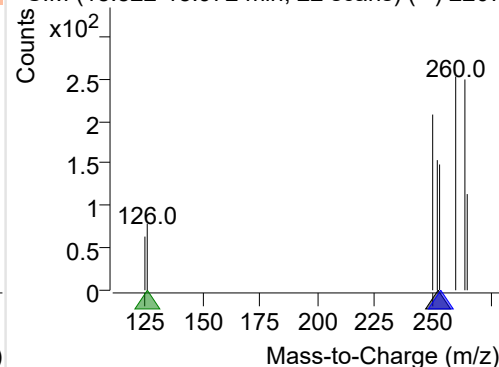
Perylene

+ Selected Ion (252.0) 220707-PAHs-038.D

252.0, 253.0, 126.0



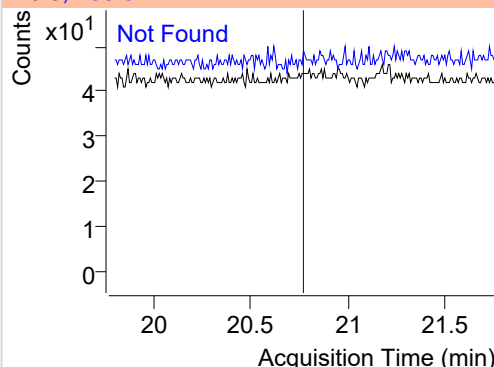
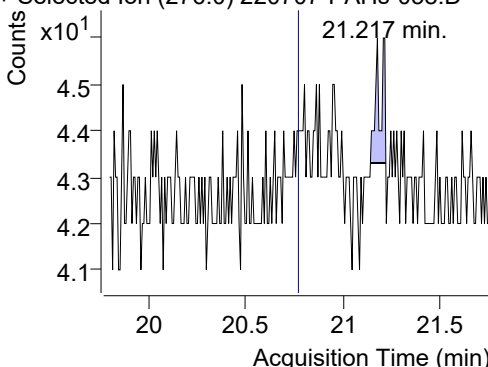
+ SIM (18.822-18.972 min, 22 scans) (**) 2207



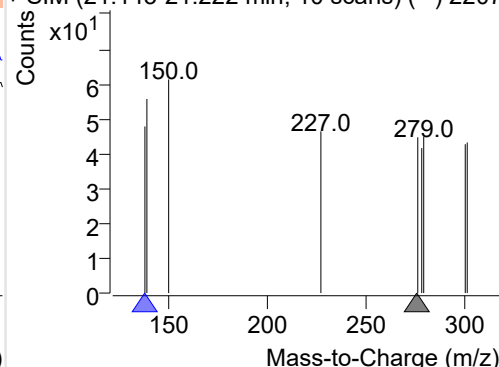
Indeno(1,2,3-c,d)pyrene

+ Selected Ion (276.0) 220707-PAHs-038.D

276.0, 138.0



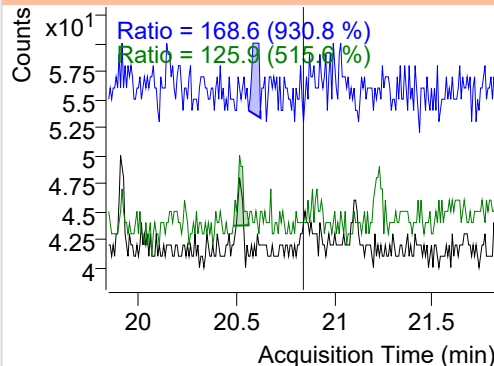
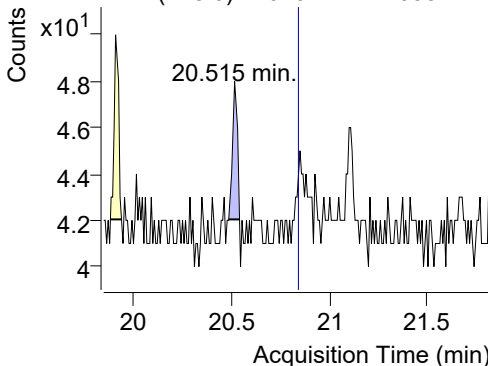
+ SIM (21.143-21.222 min, 10 scans) (**) 2207



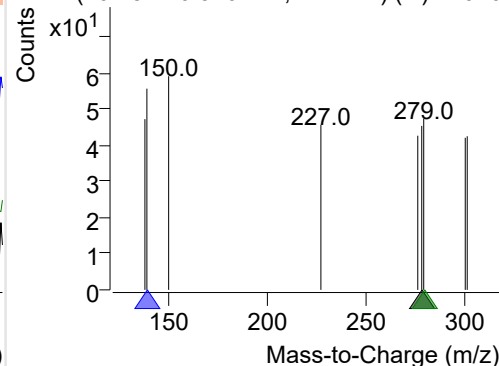
Dibenz(a,h)anthracene

+ Selected Ion (278.0) 220707-PAHs-038.D

278.0, 139.0, 279.0



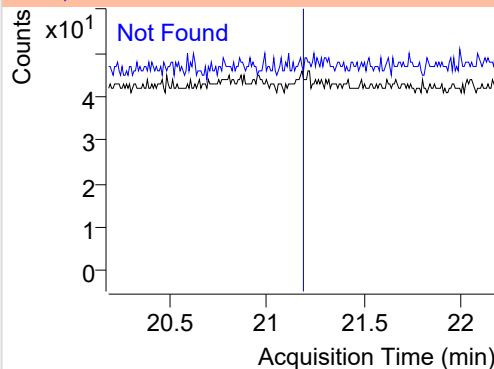
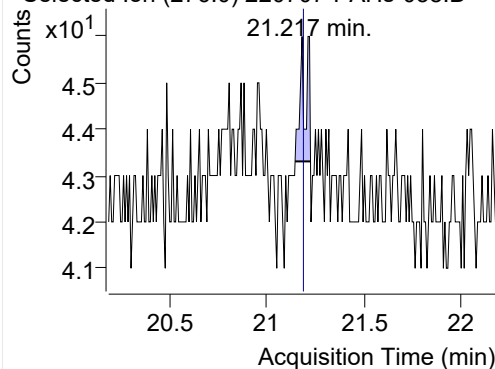
+ SIM (20.484-20.540 min, 7 scans) (**) 22070



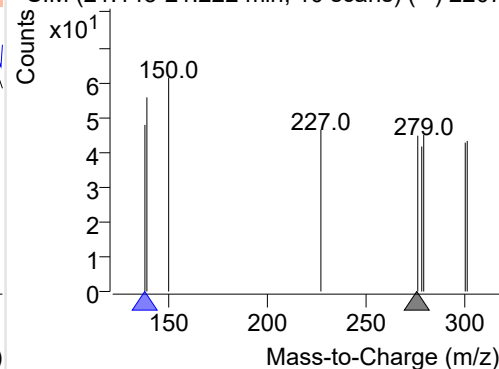
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 220707-PAHs-038.D

276.0, 138.0

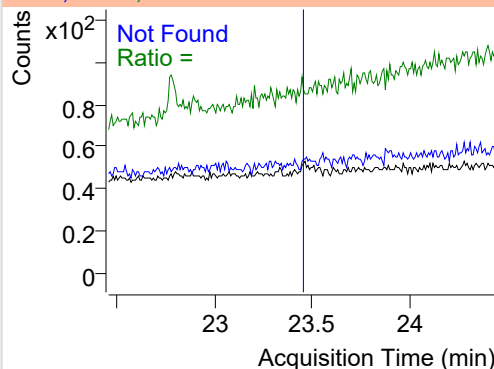
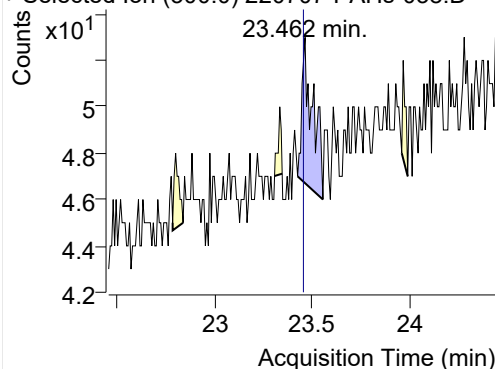


+ SIM (21.143-21.222 min, 10 scans) (**) 2207

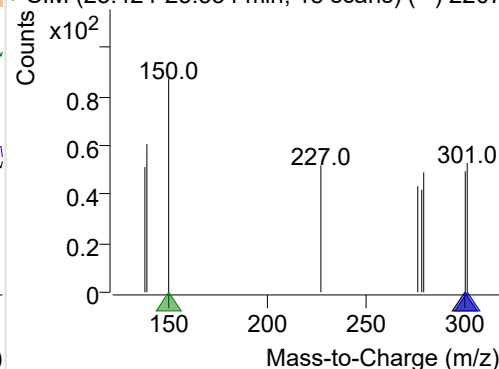
**Coronene**

+ Selected Ion (300.0) 220707-PAHs-038.D

300.0, 301.0, 150.0



+ SIM (23.424-23.554 min, 18 scans) (**) 2207



Quantitative Analysis Sample Based Report

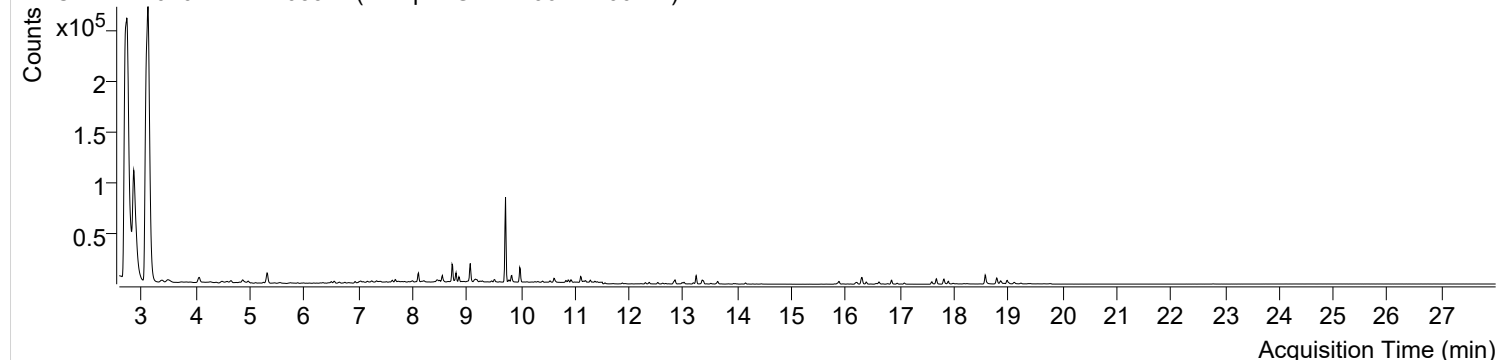


Trusted Answers

| | | | |
|---------------------------|--|-----------------------|--------------------------|
| Batch Data Path File Name | D:\MassHunter\GCMS\1\data\PAHs\220707-PAHs-Sample\QuantResults\220707-PAHs-Quant.batch.bin | | |
| Analysis Time Stamp | 2022-07-09 오전 11:12:52 | Analyst Name | DESKTOP-86B7UPG\5975MS |
| Report Generation Time | 2022-07-09 오전 11:13:20 | Report Generator Name | DESKTOP-86B7UPG\5975MS |
| Calibration Last Update | 2022-07-09 오전 11:04:15 | Batch State | Processed |
| Analyze Quant Version | 10.2 | Report Quant Version | 10.2 |
| Acq. Date-Time | 2022-07-08 오전 9:01:27 | Data File | 220707-PAHs-039.D |
| Type | Sample | Name | Sample-Gas-220622-100DIL |
| Dil. | 1 | Acq. Method File | PAHs 19mix-Method |

Sample Chromatogram

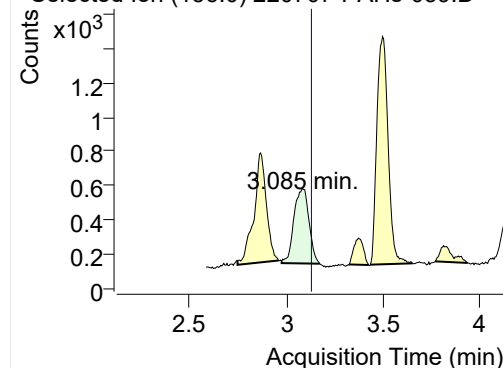
+ TIC SIM 220707-PAHs-039.D (Sample-Gas-220622-100DIL)



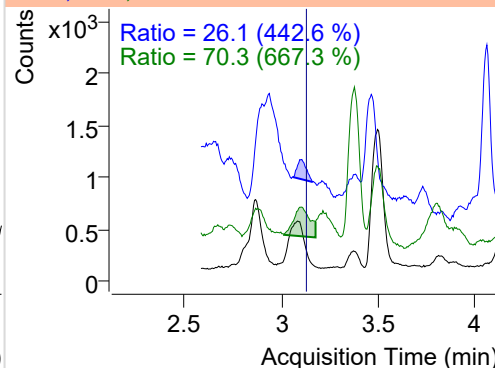
| Name | RT | Transition | Resp. | Height | Final Conc. Units | Ratio |
|-------------------------|--------|------------|---------|-----------|-------------------|-------|
| IS-D8-Naphthalene | 3.085 | 136.0 | 2332 | 434.14 | ND ng/ml | 70.3 |
| Naphthalene | 3.118 | 128.0 | 1106190 | 217742.93 | ND ng/ml | 12.9 |
| Acenaphthylene | 6.167 | 152.0 | 220 | 124.63 | ND ng/ml | 97.0 |
| IS-D10-Acenaphthene | 6.498 | 164.0 | 1716 | 729.56 | ND ng/ml | 78.5 |
| Acenaphthene | 6.558 | 154.0 | 958 | 453.62 | ND ng/ml | 106.3 |
| LSS-D10-Fluorene | 7.627 | 176.0 | 1048 | 657.38 | ND ng/ml | 99.0 |
| Fluorene | 7.680 | 166.0 | 2053 | 1074.55 | ND ng/ml | 120.9 |
| IS-D10-Phenanthrene | 9.780 | 188.0 | 2384 | 1301.11 | ND ng/ml | 34.2 |
| Phenanthrene | 9.832 | 178.0 | 7302 | 4010.58 | ND ng/ml | 20.0 |
| Anthracene | 9.979 | 178.0 | 6395 | 3746.58 | ND ng/ml | 27.5 |
| Fluoranthene | 12.526 | 202.0 | 1761 | 1017.29 | ND ng/ml | 20.8 |
| LSS-D10-Pyrene | 12.981 | 212.0 | 1499 | 897.30 | ND ng/ml | 27.0 |
| Pyrene | 13.014 | 202.0 | 2123 | 1216.21 | ND ng/ml | |
| Benz(a)anthracene | 15.800 | 228.0 | 19 | 14.78 | ND ng/ml | |
| IS-D12-Chrysene | 15.843 | 240.0 | 1393 | 622.64 | ND ng/ml | 24.8 |
| Chrysene | 15.881 | 228.0 | 227 | 98.50 | ND ng/ml | 34.7 |
| Benzo(b)fluoranthene | 18.238 | 252.0 | 204 | 91.95 | ND ng/ml | 135.5 |
| Benzo(k)fluoranthene | 18.238 | 252.0 | 204 | 91.95 | ND ng/ml | 135.5 |
| SS-D12-Benzo(e)pyrene | 18.580 | 264.0 | 6048 | 2785.05 | ND ng/ml | 5.3 |
| Benzo(e)pyrene | 18.573 | 252.0 | 2075 | 786.96 | ND ng/ml | 21.3 |
| Benzo(a)pyrene | 18.786 | 252.0 | 1489 | 575.46 | ND ng/ml | 20.1 |
| IS-D12-Perylene | 18.865 | 264.0 | 3214 | 1165.05 | ND ng/ml | 19.1 |
| Perylene | 18.858 | 252.0 | 1182 | 418.44 | ND ng/ml | 15.3 |
| Indeno(1,2,3-c,d)pyrene | 20.858 | 276.0 | 9 | 3.33 | ND ng/ml | |
| Dibenz(a,h)anthracene | 20.828 | 278.0 | 7 | 3.07 | ND ng/ml | |
| Benzo(g,h,i)perylene | 21.141 | 276.0 | 3 | 3.79 | ND ng/ml | |
| Coronene | 23.477 | 300.0 | 4 | 4.35 | ND ng/ml | |

IS-D8-Naphthalene

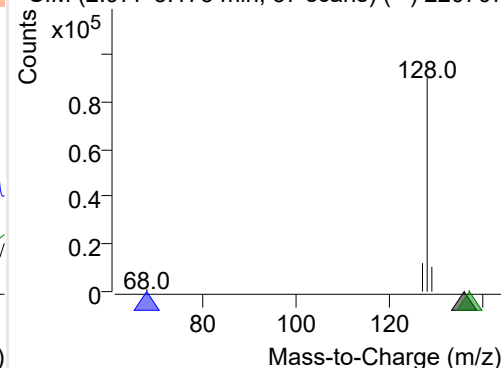
+ Selected Ion (136.0) 220707-PAHs-039.D



136.0, 68.0, 137.0

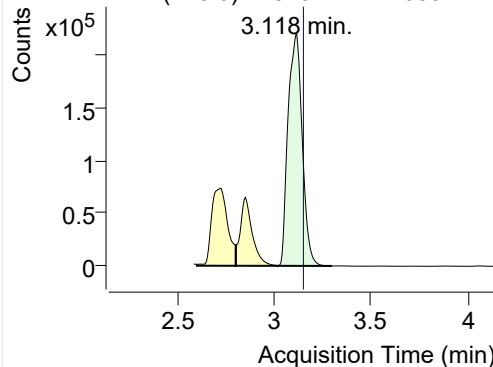


+ SIM (2.977-3.173 min, 37 scans) (**) 220707

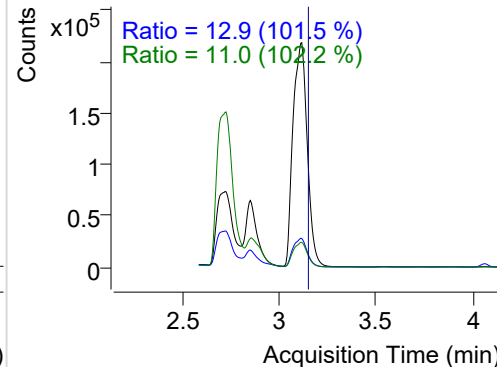


Naphthalene

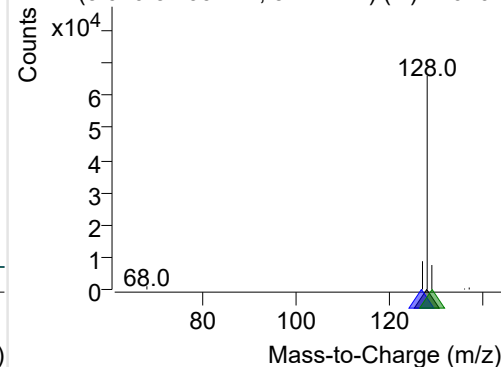
+ Selected Ion (128.0) 220707-PAHs-039.D



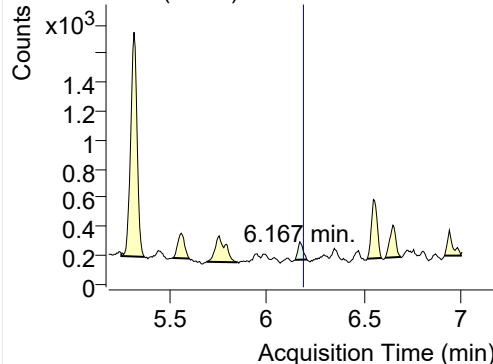
128.0, 127.0, 129.0



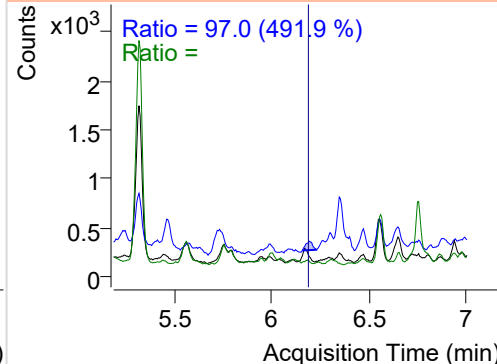
+ SIM (3.020-3.299 min, 52 scans) (**) 220707

**Acenaphthylene**

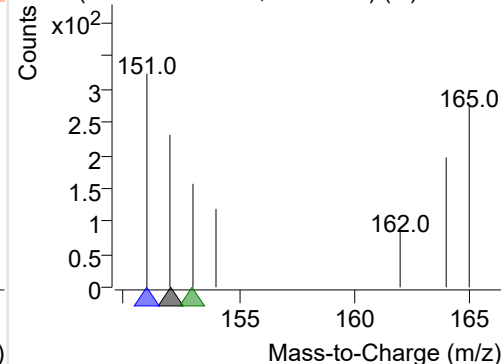
+ Selected Ion (152.0) 220707-PAHs-039.D



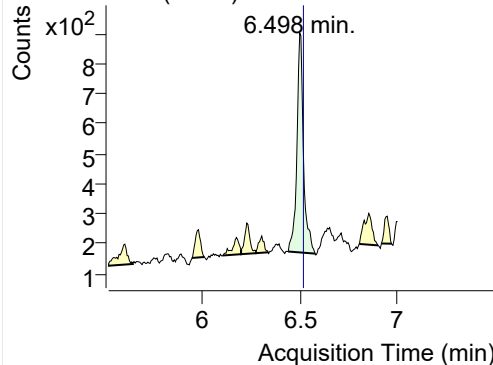
152.0, 151.0, 153.0



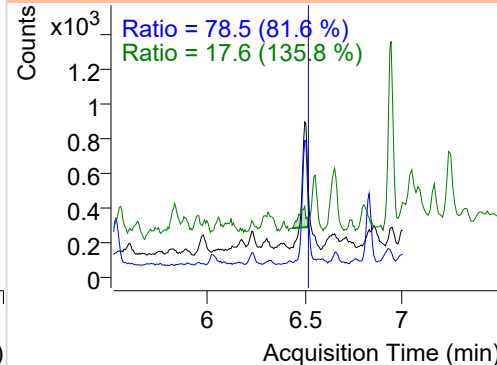
+ SIM (6.144-6.204 min, 10 scans) (**) 220707

**IS-D10-Acenaphthene**

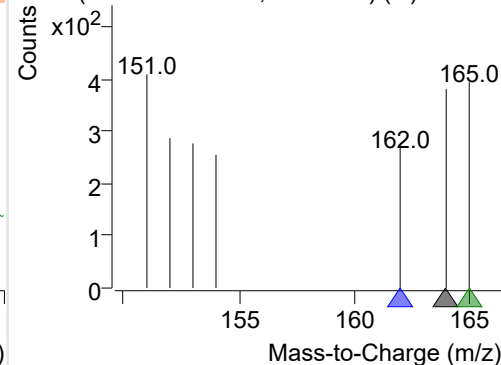
+ Selected Ion (164.0) 220707-PAHs-039.D



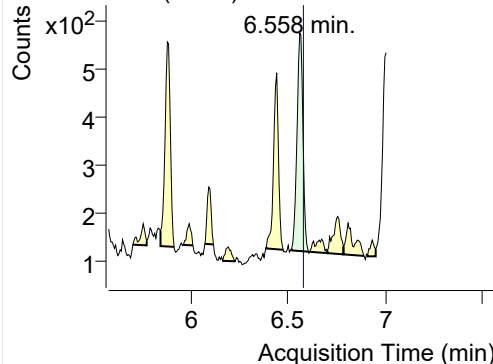
164.0, 162.0, 165.0



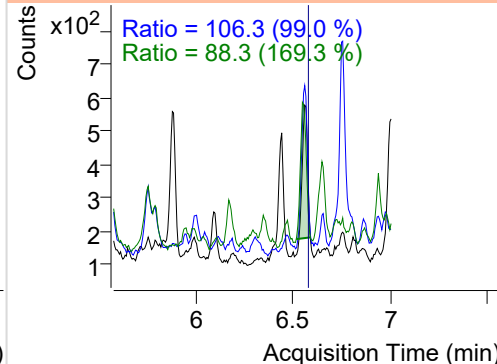
+ SIM (6.439-6.578 min, 23 scans) (**) 220707

**Acenaphthene**

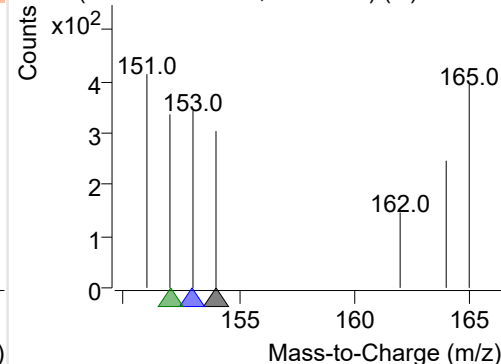
+ Selected Ion (154.0) 220707-PAHs-039.D



154.0, 153.0, 152.0

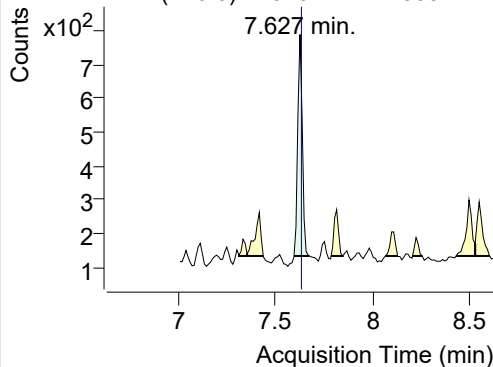


+ SIM (6.516-6.603 min, 15 scans) (**) 220707

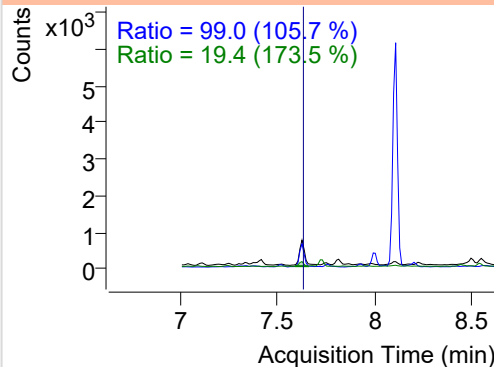


LSS-D10-Fluorene

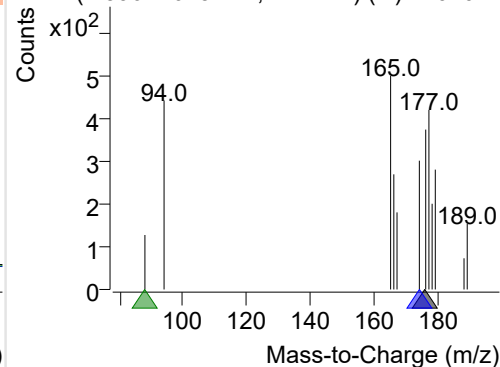
+ Selected Ion (176.0) 220707-PAHs-039.D



176.0, 174.0, 88.0

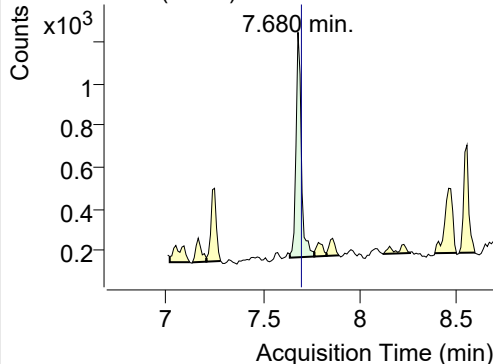


+ SIM (7.596-7.675 min, 7 scans) (**) 220707-I

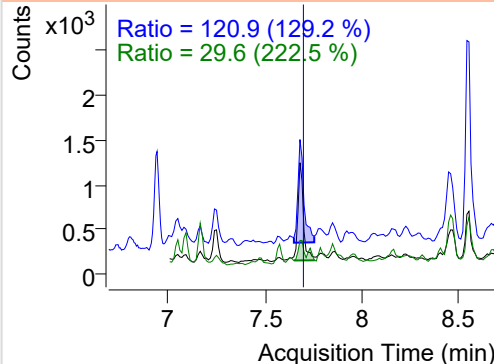


Fluorene

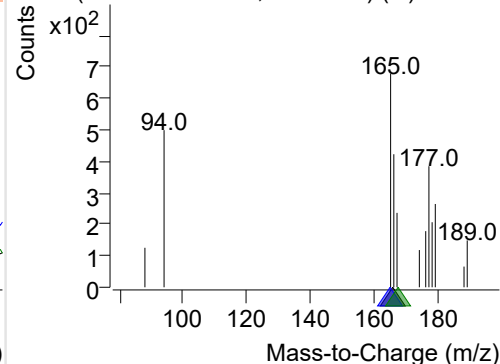
+ Selected Ion (166.0) 220707-PAHs-039.D



166.0, 165.0, 167.0

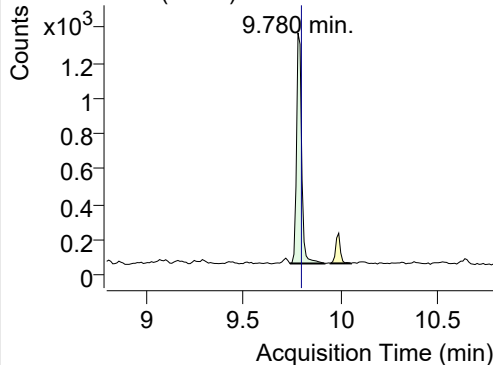


+ SIM (7.638-7.764 min, 13 scans) (**) 220707

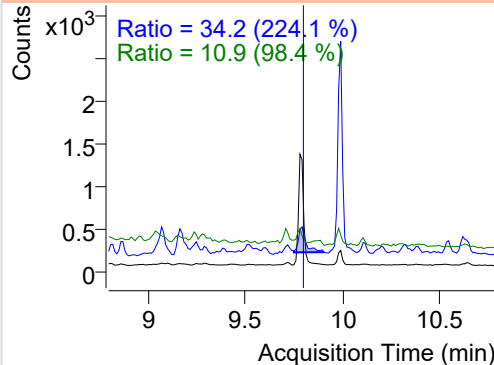


IS-D10-Phenanthrene

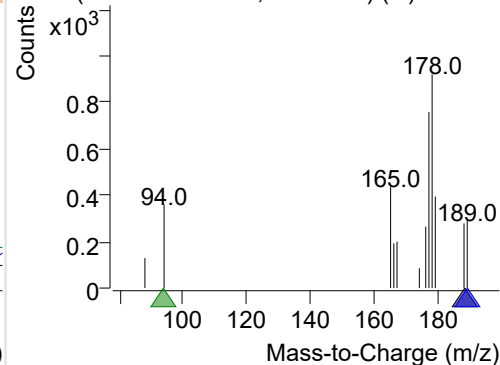
+ Selected Ion (188.0) 220707-PAHs-039.D



188.0, 189.0, 94.0

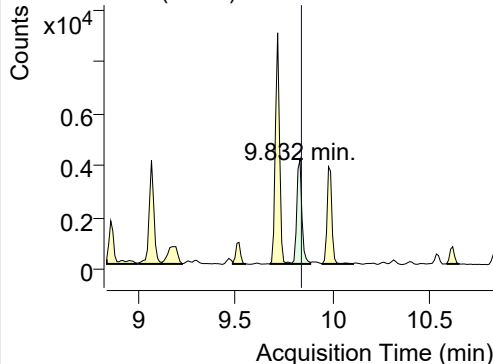


+ SIM (9.738-9.916 min, 18 scans) (**) 220707

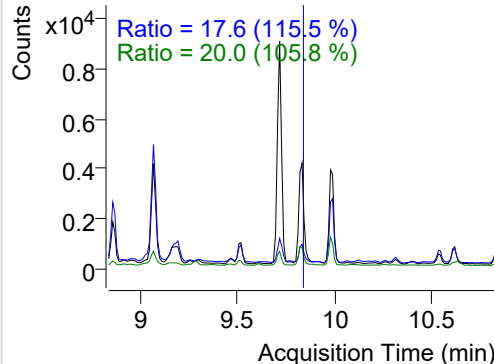


Phenanthrene

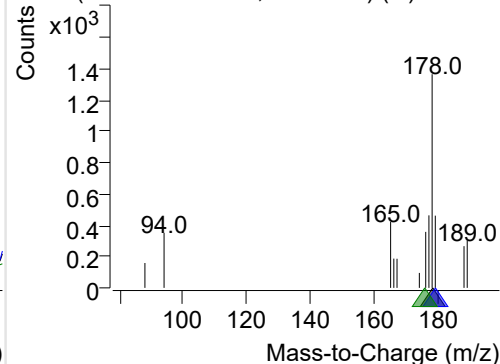
+ Selected Ion (178.0) 220707-PAHs-039.D



178.0, 179.0, 176.0

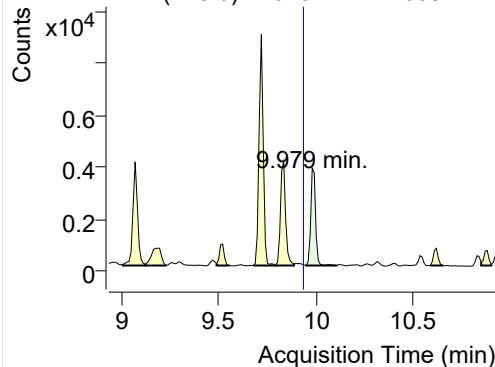


+ SIM (9.790-9.885 min, 10 scans) (**) 220707

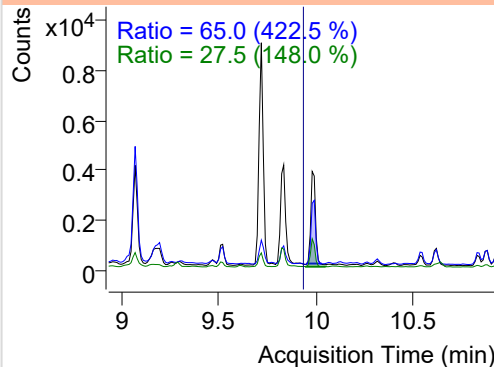


Anthracene

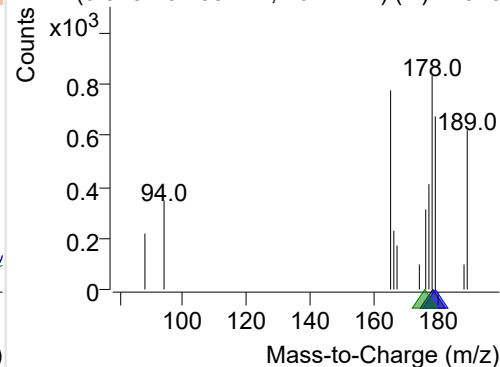
+ Selected Ion (178.0) 220707-PAHs-039.D



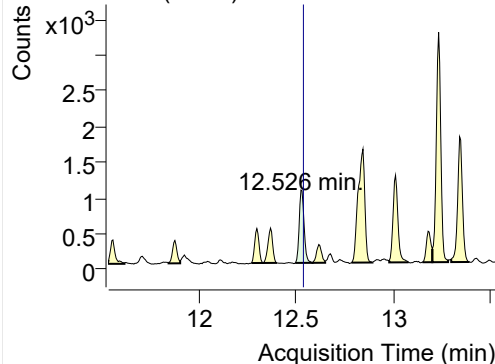
178.0, 179.0, 176.0



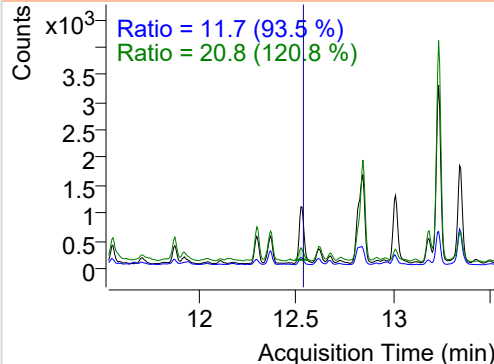
+ SIM (9.948-10.105 min, 16 scans) (**) 22070

**Fluoranthene**

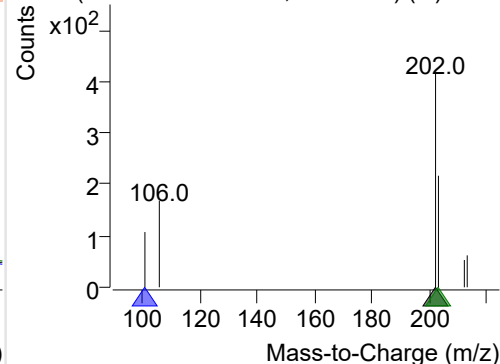
+ Selected Ion (202.0) 220707-PAHs-039.D



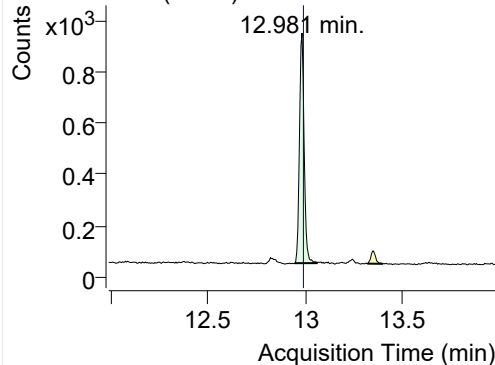
202.0, 101.0, 203.0



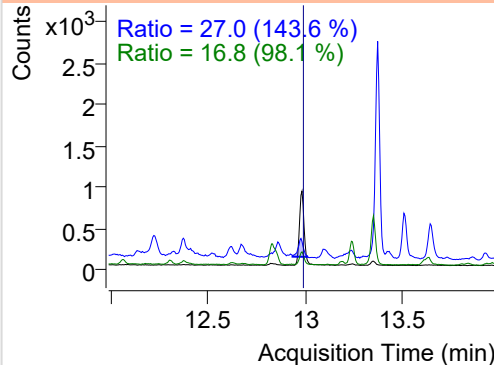
+ SIM (12.496-12.586 min, 17 scans) (**) 2207

**LSS-D10-Pyrene**

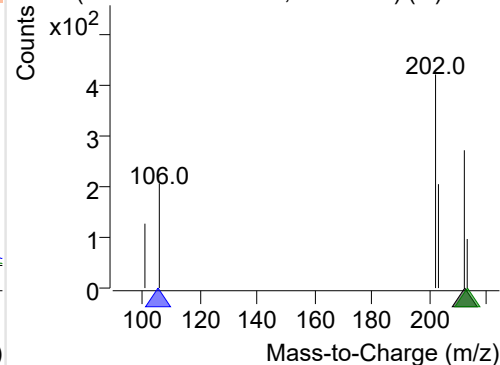
+ Selected Ion (212.0) 220707-PAHs-039.D



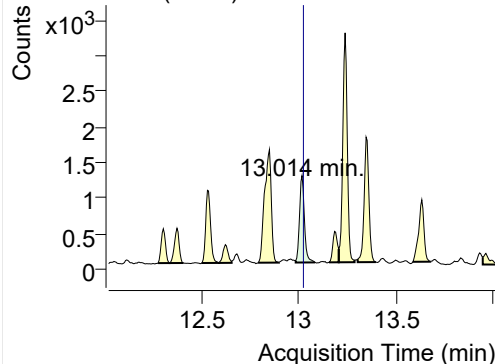
212.0, 106.0, 213.0



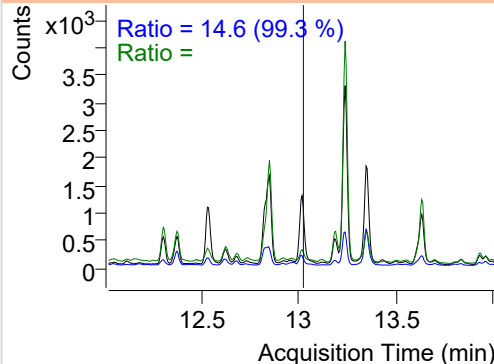
+ SIM (12.944-13.057 min, 21 scans) (**) 2207

**Pyrene**

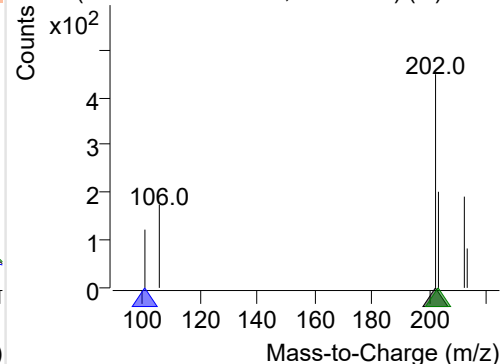
+ Selected Ion (202.0) 220707-PAHs-039.D



202.0, 101.0, 203.0



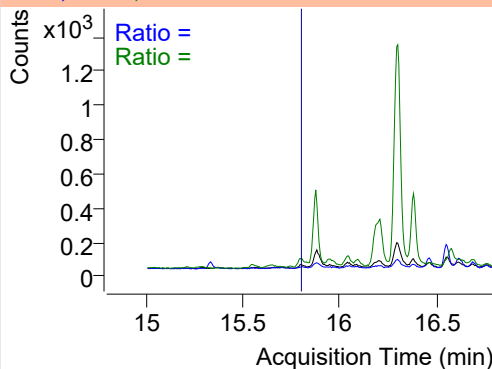
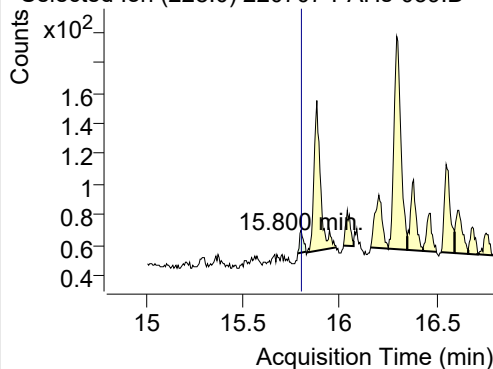
+ SIM (12.981-13.082 min, 19 scans) (**) 2207



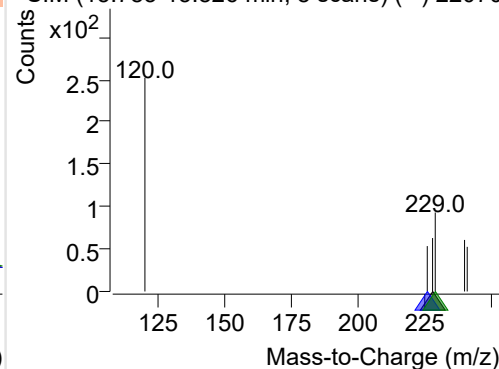
Benz(a)anthracene

+ Selected Ion (228.0) 220707-PAHs-039.D

228.0, 226.0, 229.0

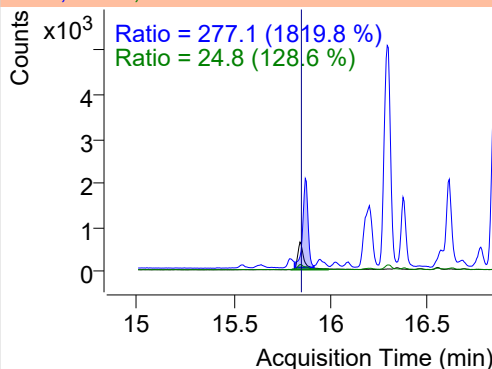
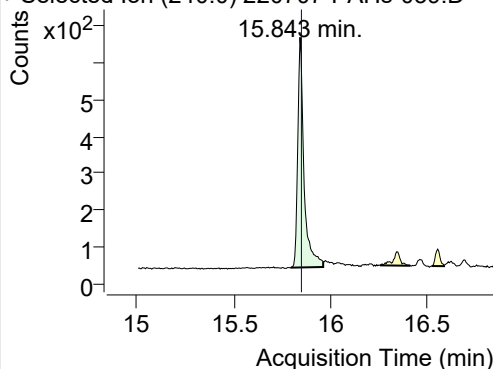


+ SIM (15.783-15.826 min, 8 scans) (**) 22070

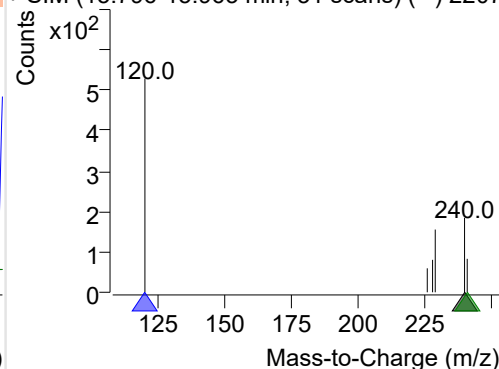
**IS-D12-Chrysene**

+ Selected Ion (240.0) 220707-PAHs-039.D

240.0, 120.0, 241.0

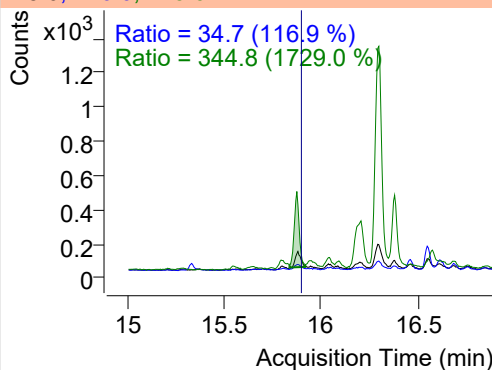
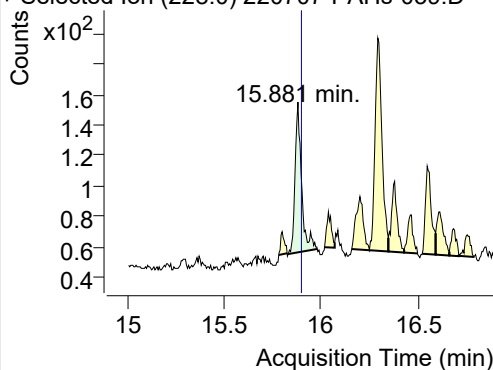


+ SIM (15.796-15.963 min, 31 scans) (**) 2207

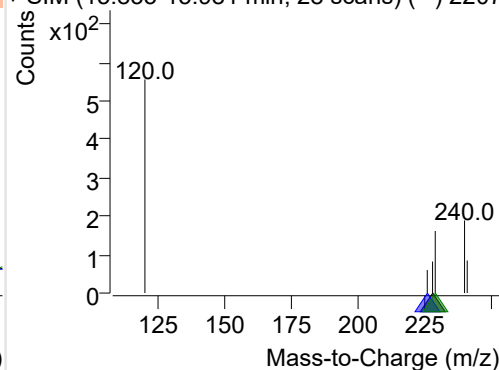
**Chrysene**

+ Selected Ion (228.0) 220707-PAHs-039.D

228.0, 226.0, 229.0

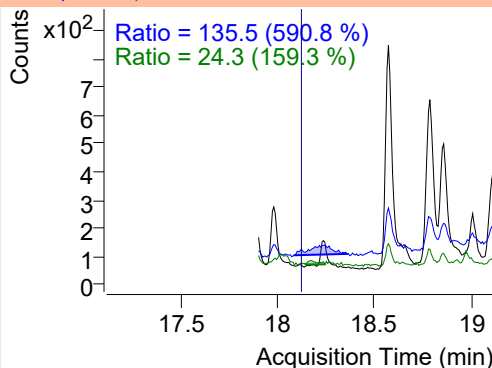
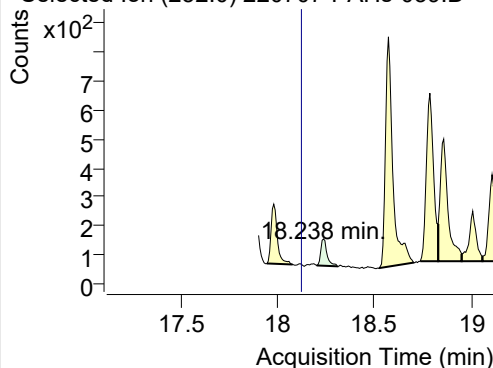


+ SIM (15.833-15.981 min, 28 scans) (**) 2207

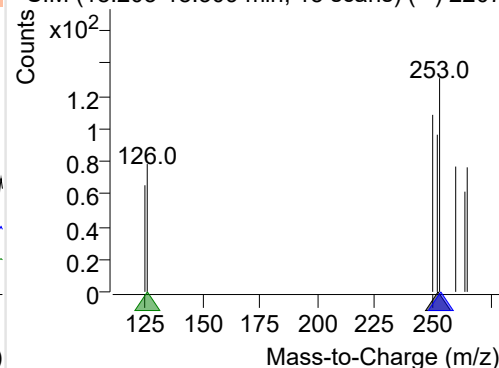
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 220707-PAHs-039.D

252.0, 253.0, 126.0



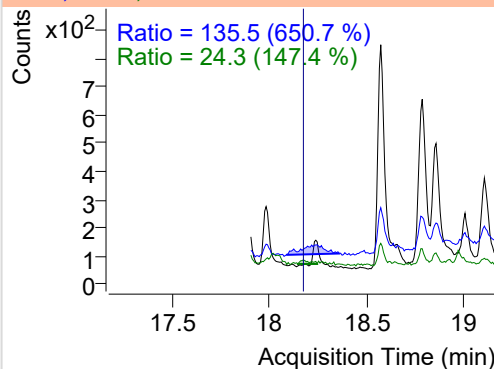
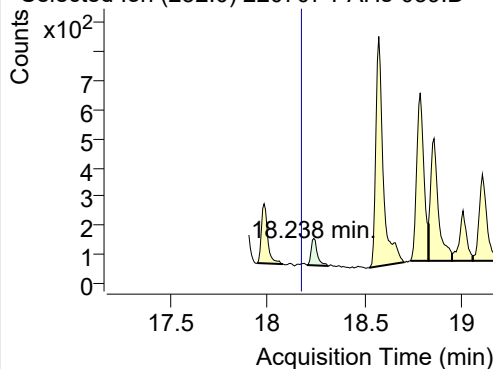
+ SIM (18.203-18.309 min, 15 scans) (**) 2207



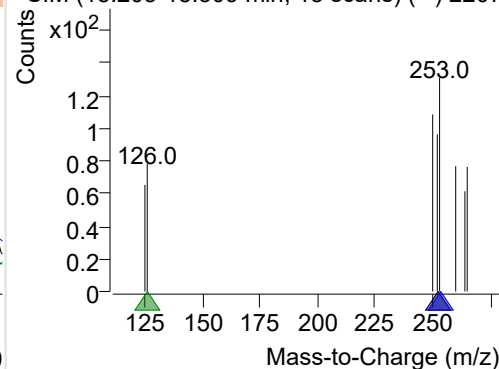
Benzo(k)fluoranthene

+ Selected Ion (252.0) 220707-PAHs-039.D

252.0, 253.0, 126.0

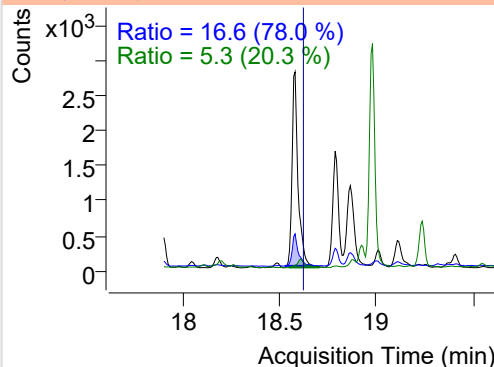
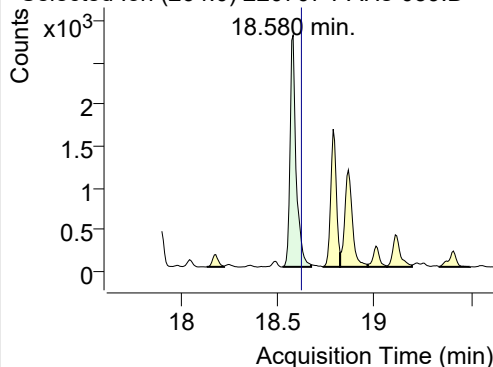


+ SIM (18.203-18.309 min, 15 scans) (**) 2207

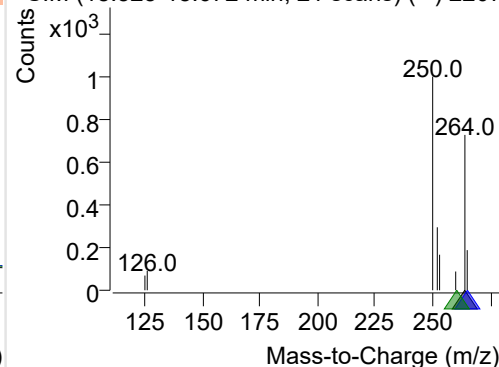
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 220707-PAHs-039.D

264.0, 265.0, 260.0

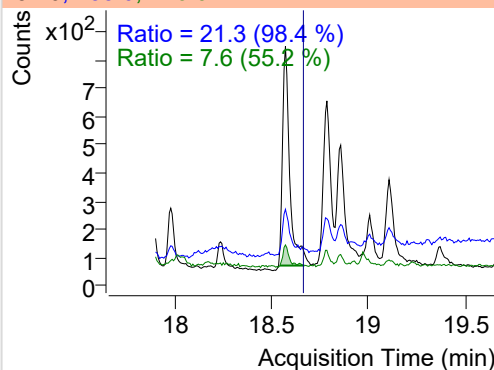
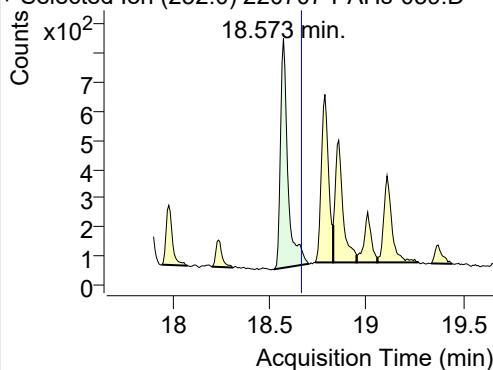


+ SIM (18.525-18.672 min, 21 scans) (**) 2207

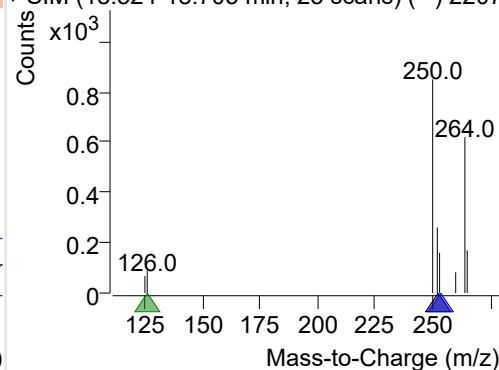
**Benzo(e)pyrene**

+ Selected Ion (252.0) 220707-PAHs-039.D

252.0, 253.0, 126.0

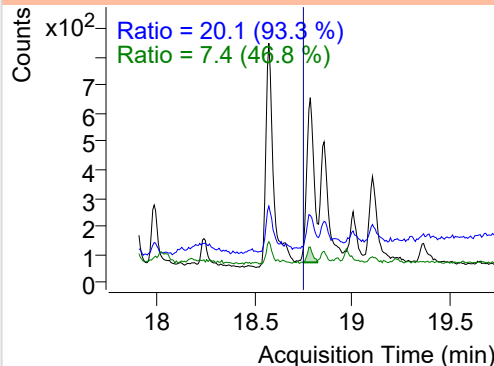
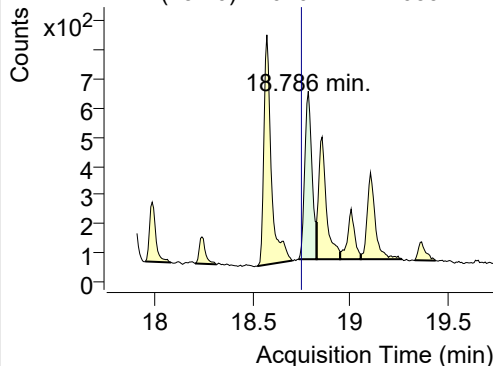


+ SIM (18.524-18.705 min, 25 scans) (**) 2207

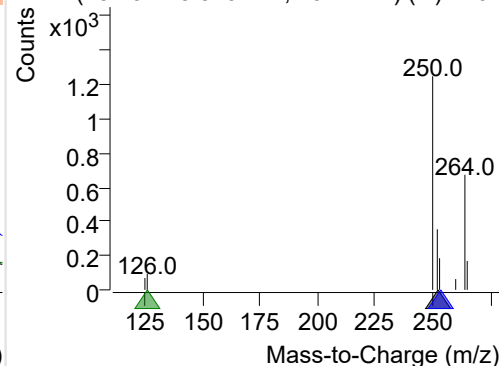
**Benzo(a)pyrene**

+ Selected Ion (252.0) 220707-PAHs-039.D

252.0, 253.0, 126.0

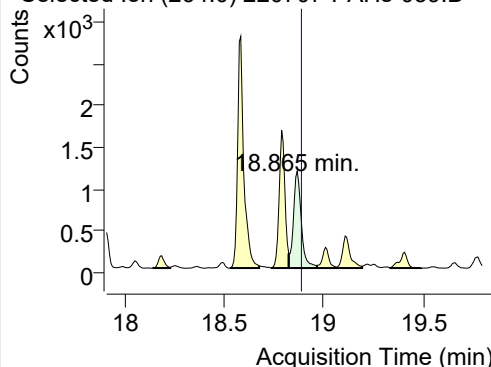


+ SIM (18.737-18.829 min, 13 scans) (**) 2207

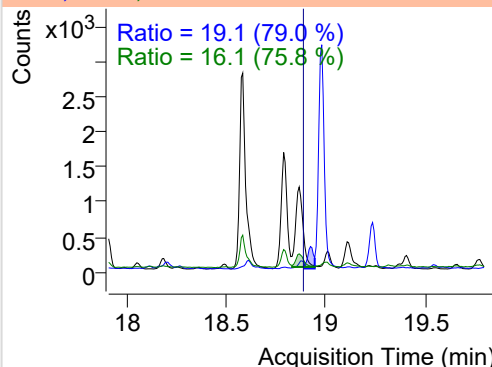


IS-D12-Perylene

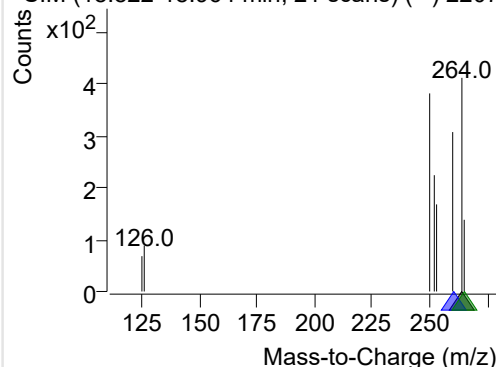
+ Selected Ion (264.0) 220707-PAHs-039.D



264.0, 260.0, 265.0

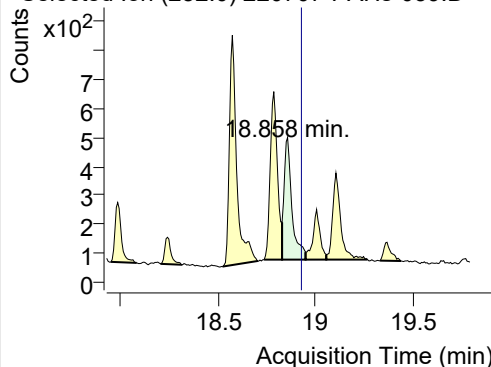


+ SIM (18.822-18.964 min, 21 scans) (**) 2207

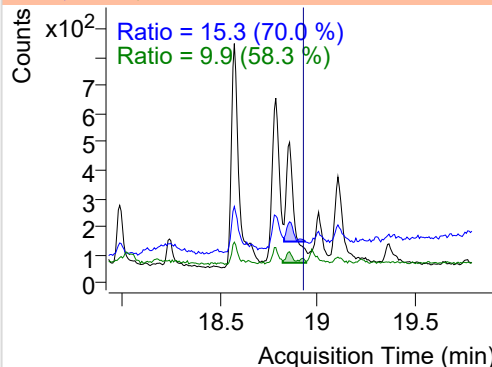


Perylene

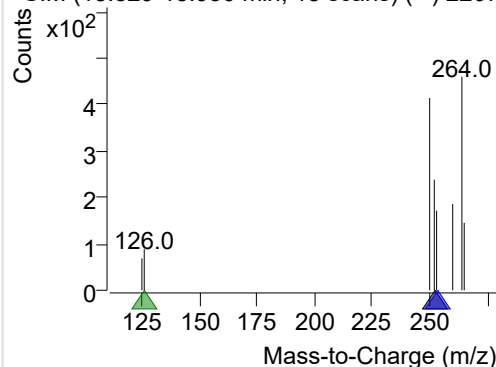
+ Selected Ion (252.0) 220707-PAHs-039.D



252.0, 253.0, 126.0

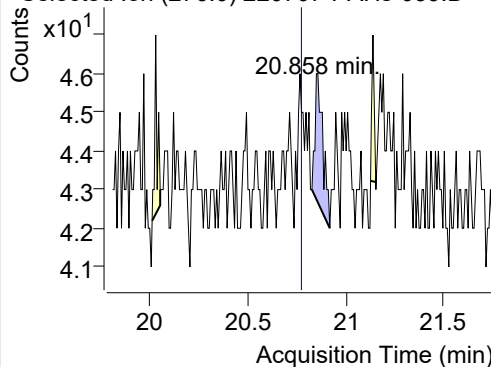


+ SIM (18.829-18.950 min, 18 scans) (**) 2207

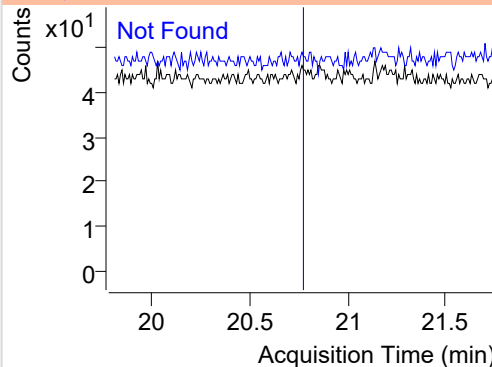


Indeno(1,2,3-c,d)pyrene

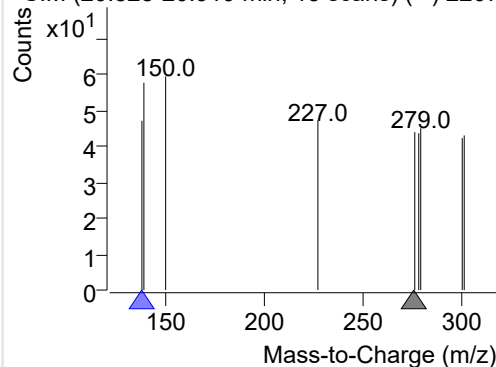
+ Selected Ion (276.0) 220707-PAHs-039.D



276.0, 138.0

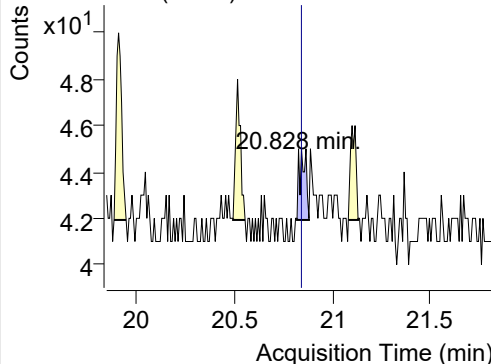


+ SIM (20.828-20.919 min, 13 scans) (**) 2207

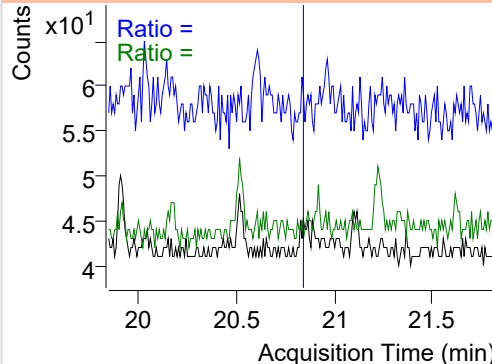


Dibenz(a,h)anthracene

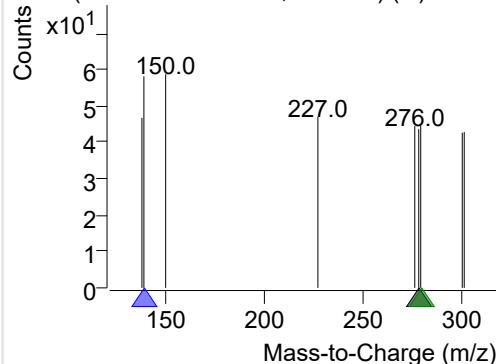
+ Selected Ion (278.0) 220707-PAHs-039.D



278.0, 139.0, 279.0



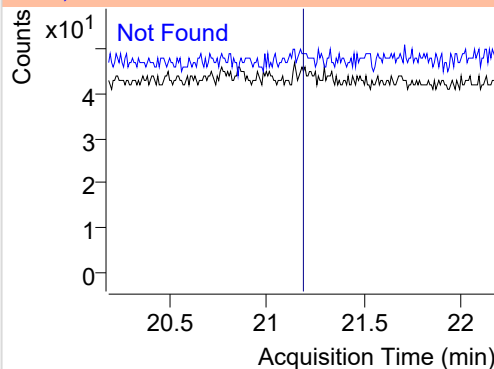
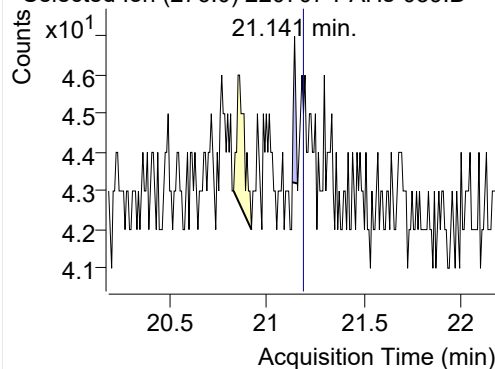
+ SIM (20.820-20.881 min, 9 scans) (**) 22070



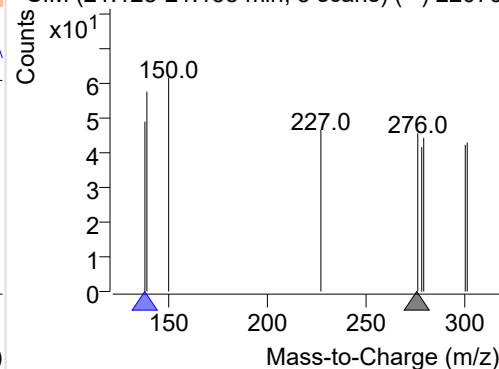
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 220707-PAHs-039.D

276.0, 138.0

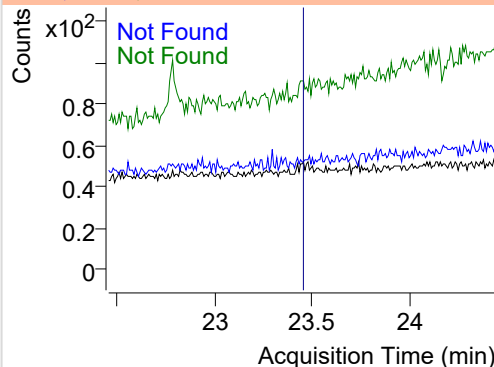
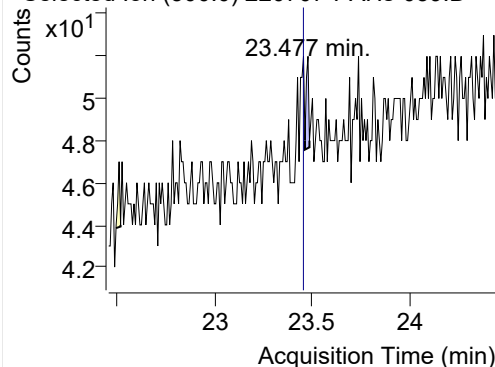


+ SIM (21.128-21.155 min, 3 scans) (**) 22070

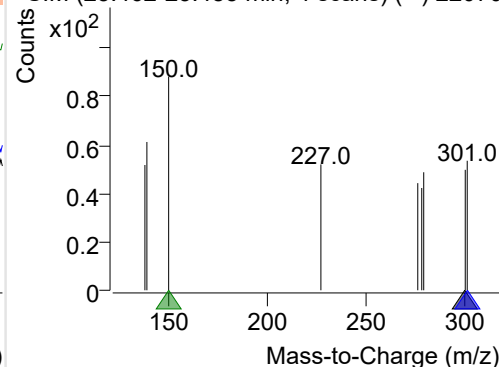
**Coronene**

+ Selected Ion (300.0) 220707-PAHs-039.D

300.0, 301.0, 150.0



+ SIM (23.462-23.485 min, 4 scans) (**) 22070



Quantitative Analysis Sample Based Report

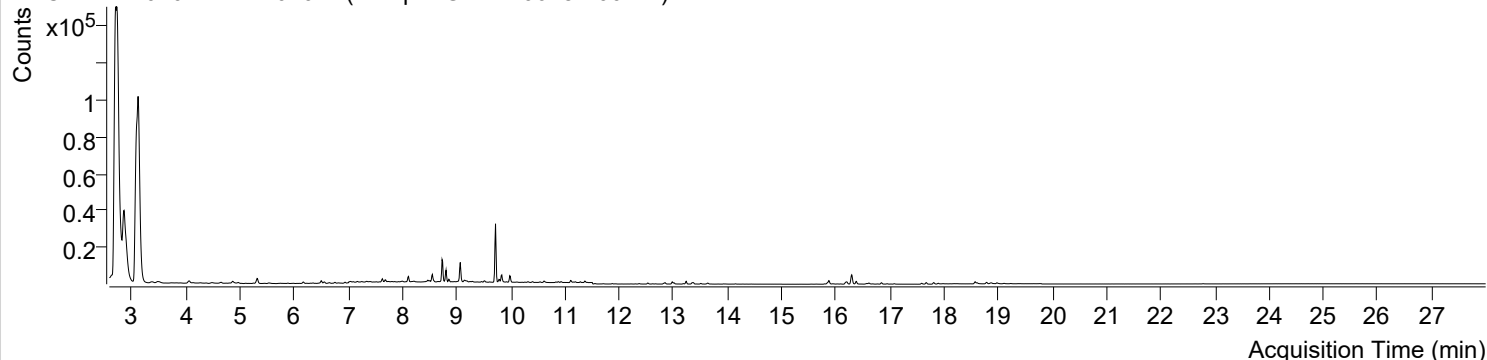


Trusted Answers

| | | | |
|---------------------------|--|-----------------------|--------------------------|
| Batch Data Path File Name | D:\MassHunter\GCMS\1\data\PAHs\220707-PAHs-Sample\QuantResults\220707-PAHs-Quant.batch.bin | | |
| Analysis Time Stamp | 2022-07-09 오전 11:12:52 | Analyst Name | DESKTOP-86B7UPG\5975MS |
| Report Generation Time | 2022-07-09 오전 11:13:20 | Report Generator Name | DESKTOP-86B7UPG\5975MS |
| Calibration Last Update | 2022-07-09 오전 11:04:15 | Batch State | Processed |
| Analyze Quant Version | 10.2 | Report Quant Version | 10.2 |
| Acq. Date-Time | 2022-07-08 오전 9:32:38 | Data File | 220707-PAHs-040.D |
| Type | Sample | Name | Sample-Gas-220628-100DIL |
| Dil. | 1 | Acq. Method File | PAHs 19mix-Method |

Sample Chromatogram

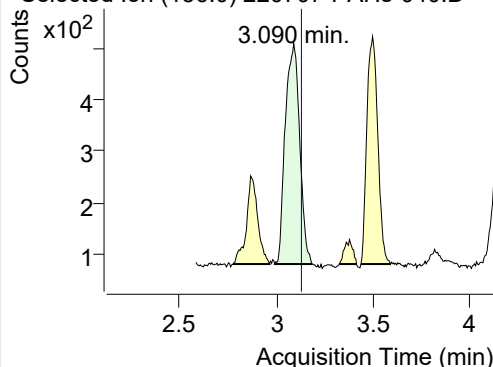
+ TIC SIM 220707-PAHs-040.D (Sample-Gas-220628-100DIL)



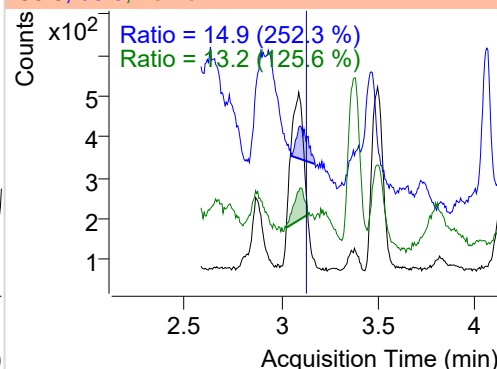
| Name | RT | Transition | Resp. | Height | Final Conc. Units | Ratio |
|-------------------------|--------|------------|--------|----------|-------------------|-------|
| IS-D8-Naphthalene | 3.090 | 136.0 | 2202 | 429.50 | ND ng/ml | 13.2 |
| Naphthalene | 3.118 | 128.0 | 411549 | 80738.11 | ND ng/ml | 13.0 |
| Acenaphthylene | 6.167 | 152.0 | 1121 | 563.60 | ND ng/ml | 22.6 |
| IS-D10-Acenaphthene | 6.498 | 164.0 | 1354 | 686.41 | ND ng/ml | 96.1 |
| Acenaphthene | 6.564 | 154.0 | 417 | 200.91 | ND ng/ml | 94.4 |
| LSS-D10-Fluorene | 7.627 | 176.0 | 1240 | 736.93 | ND ng/ml | 95.5 |
| Fluorene | 7.680 | 166.0 | 1041 | 516.84 | ND ng/ml | 119.7 |
| IS-D10-Phenanthrene | 9.780 | 188.0 | 2164 | 1121.99 | ND ng/ml | 20.4 |
| Phenanthrene | 9.832 | 178.0 | 4612 | 2541.48 | ND ng/ml | 19.7 |
| Anthracene | 9.927 | 178.0 | 299 | 149.48 | ND ng/ml | |
| Fluoranthene | 12.532 | 202.0 | 720 | 405.35 | ND ng/ml | 18.1 |
| LSS-D10-Pyrene | 12.981 | 212.0 | 1478 | 857.34 | ND ng/ml | 19.1 |
| Pyrene | 13.014 | 202.0 | 818 | 457.12 | ND ng/ml | 15.6 |
| Benz(a)anthracene | 15.806 | 228.0 | 16 | 9.00 | ND ng/ml | |
| IS-D12-Chrysene | 15.844 | 240.0 | 1214 | 482.27 | ND ng/ml | 24.0 |
| Chrysene | 15.881 | 228.0 | 122 | 50.66 | ND ng/ml | 33.7 |
| Benzo(b)fluoranthene | 18.231 | 252.0 | 50 | 20.24 | ND ng/ml | 214.0 |
| Benzo(k)fluoranthene | 18.231 | 252.0 | 50 | 20.24 | ND ng/ml | 214.0 |
| SS-D12-Benzo(e)pyrene | 18.608 | 264.0 | 810 | 351.14 | ND ng/ml | 23.9 |
| Benzo(e)pyrene | 18.573 | 252.0 | 488 | 205.00 | ND ng/ml | 14.3 |
| Benzo(a)pyrene | 18.779 | 252.0 | 322 | 144.46 | ND ng/ml | 19.0 |
| IS-D12-Perylene | 18.872 | 264.0 | 753 | 264.04 | ND ng/ml | 15.1 |
| Perylene | 18.858 | 252.0 | 256 | 97.49 | ND ng/ml | 16.8 |
| Indeno(1,2,3-c,d)pyrene | | 276.0 | | | ND ng/ml | |
| Dibenz(a,h)anthracene | 21.118 | 278.0 | 14 | 4.24 | ND ng/ml | |
| Benzo(g,h,i)perylene | | 276.0 | | | ND ng/ml | |
| Coronene | 22.584 | 300.0 | 5 | 3.85 | ND ng/ml | |

IS-D8-Naphthalene

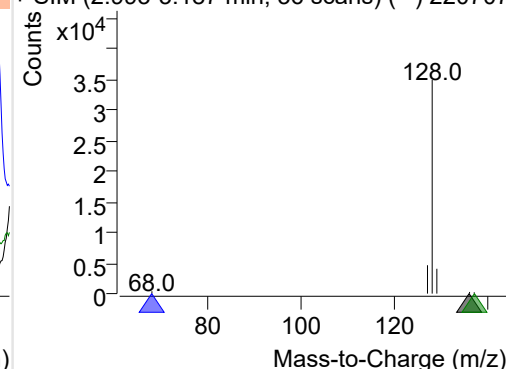
+ Selected Ion (136.0) 220707-PAHs-040.D



136.0, 68.0, 137.0

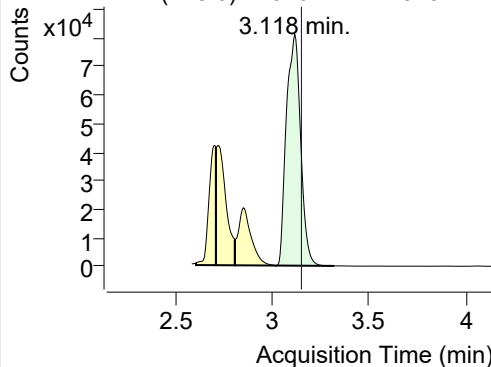


+ SIM (2.993-3.187 min, 36 scans) (**) 220707

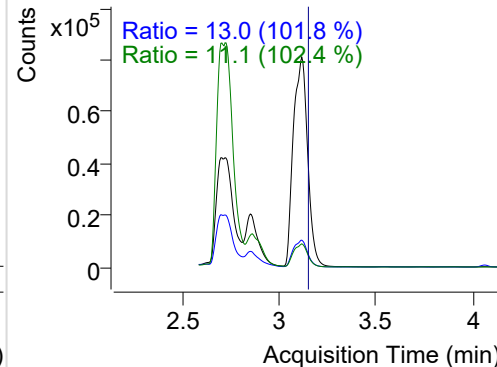


Naphthalene

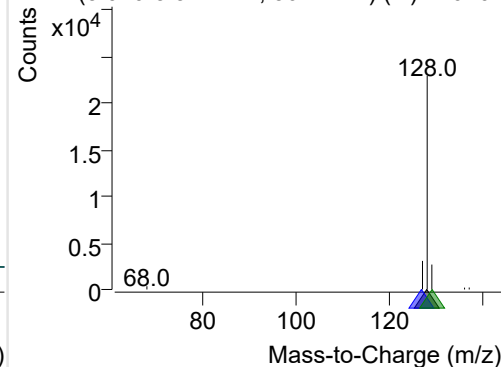
+ Selected Ion (128.0) 220707-PAHs-040.D



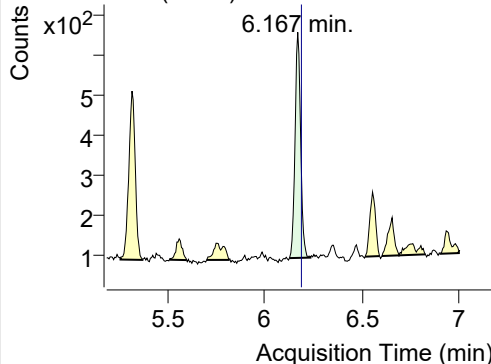
128.0, 127.0, 129.0



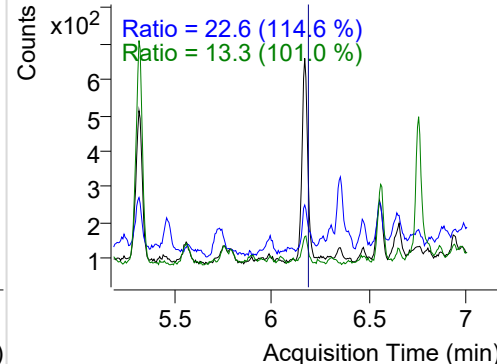
+ SIM (3.020-3.321 min, 56 scans) (**) 220707

**Acenaphthylene**

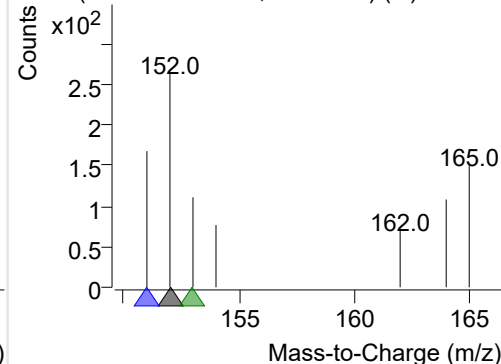
+ Selected Ion (152.0) 220707-PAHs-040.D



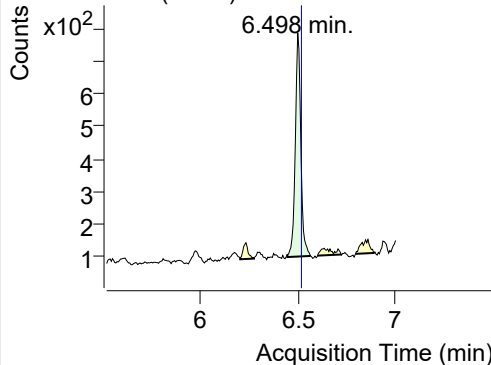
152.0, 151.0, 153.0



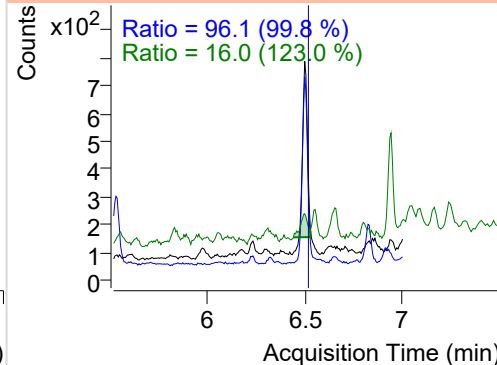
+ SIM (6.124-6.232 min, 19 scans) (**) 220707

**IS-D10-Acenaphthene**

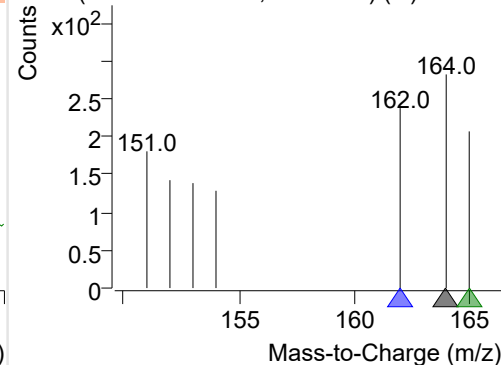
+ Selected Ion (164.0) 220707-PAHs-040.D



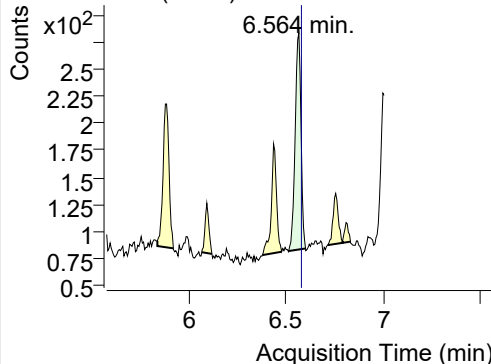
164.0, 162.0, 165.0



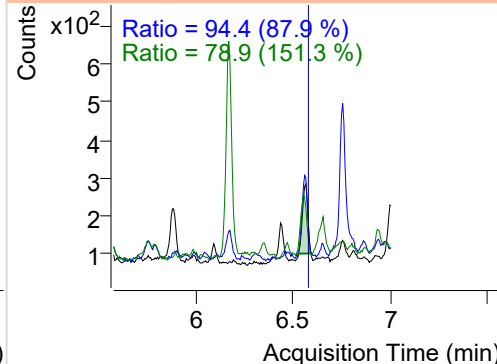
+ SIM (6.445-6.565 min, 21 scans) (**) 220707

**Acenaphthene**

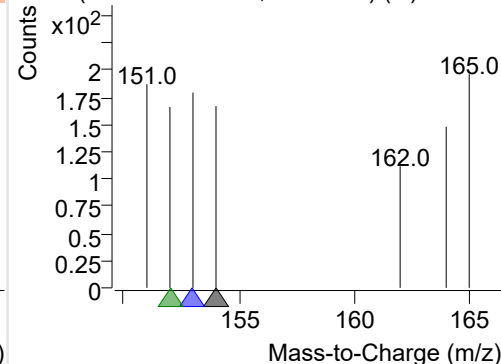
+ Selected Ion (154.0) 220707-PAHs-040.D



154.0, 153.0, 152.0

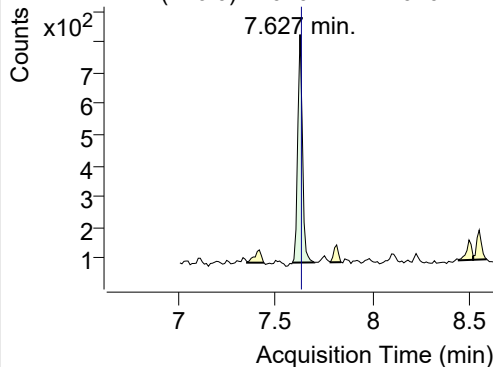


+ SIM (6.511-6.598 min, 14 scans) (**) 220707

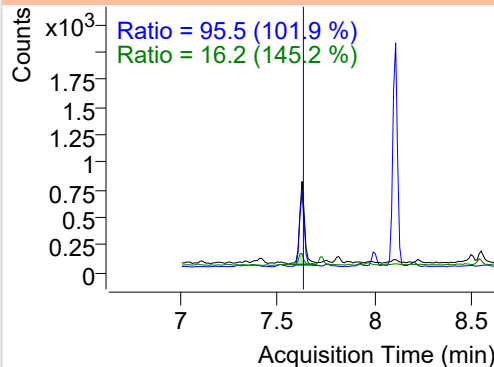


LSS-D10-Fluorene

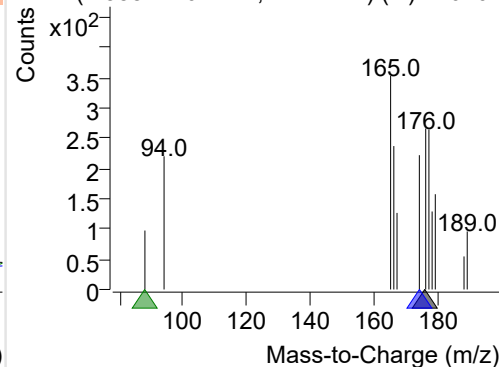
+ Selected Ion (176.0) 220707-PAHs-040.D



176.0, 174.0, 88.0

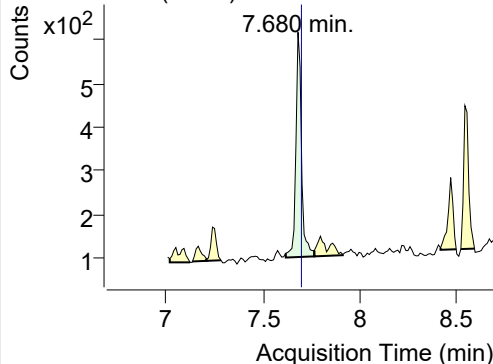


+ SIM (7.588-7.701 min, 11 scans) (**) 220707

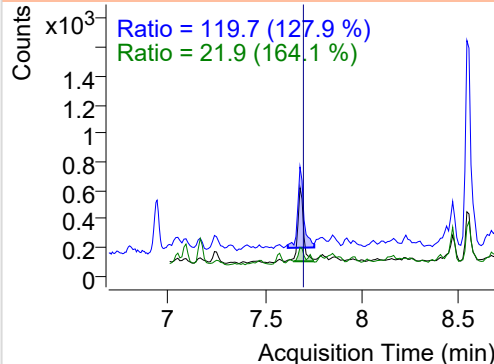


Fluorene

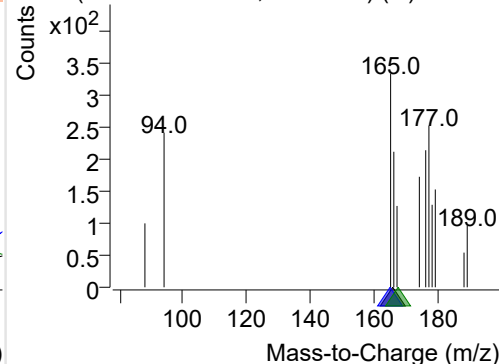
+ Selected Ion (166.0) 220707-PAHs-040.D



166.0, 165.0, 167.0

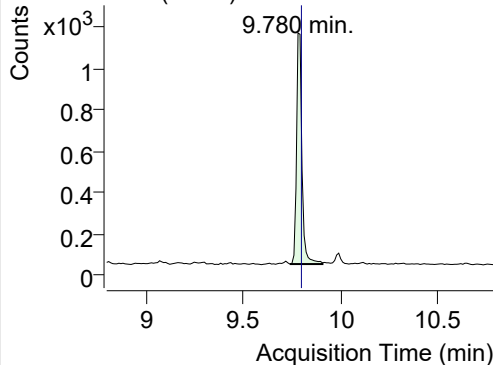


+ SIM (7.617-7.764 min, 15 scans) (**) 220707

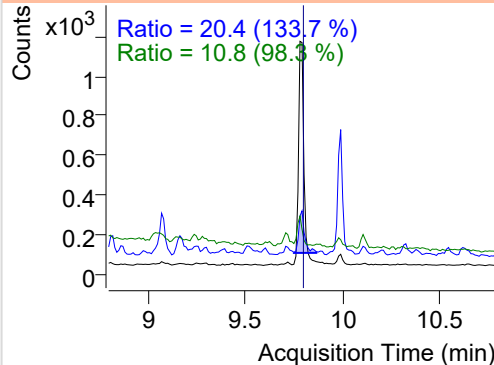


IS-D10-Phenanthrene

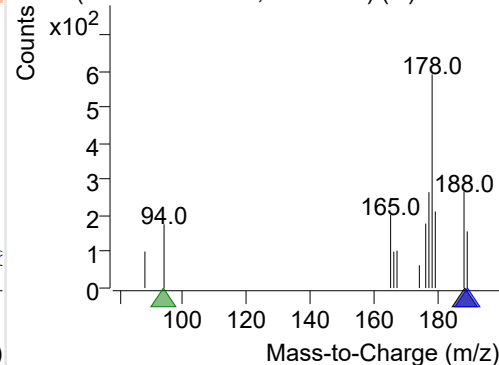
+ Selected Ion (188.0) 220707-PAHs-040.D



188.0, 189.0, 94.0

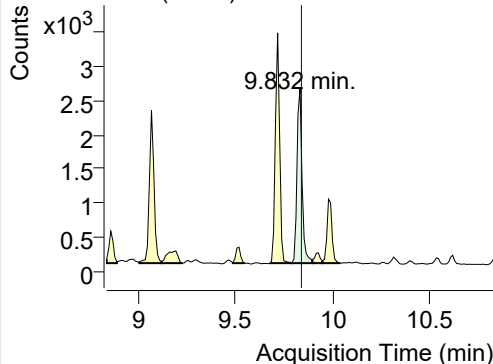


+ SIM (9.738-9.906 min, 16 scans) (**) 220707

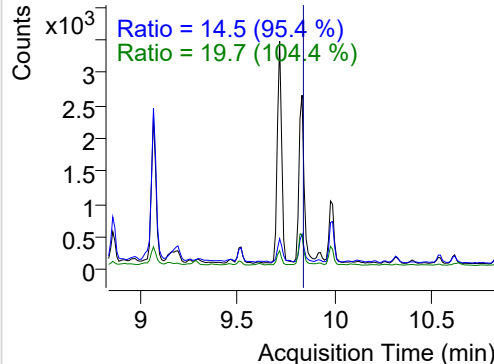


Phenanthrene

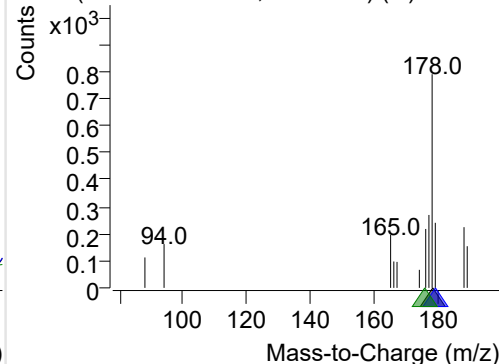
+ Selected Ion (178.0) 220707-PAHs-040.D



178.0, 179.0, 176.0

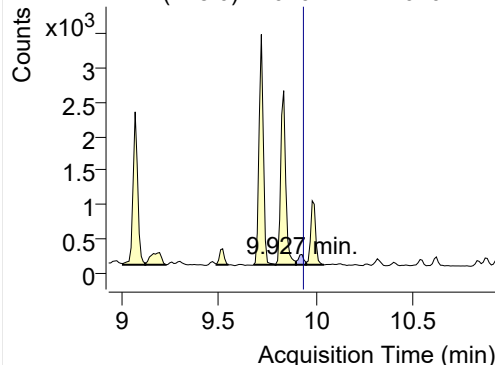


+ SIM (9.790-9.895 min, 11 scans) (**) 220707

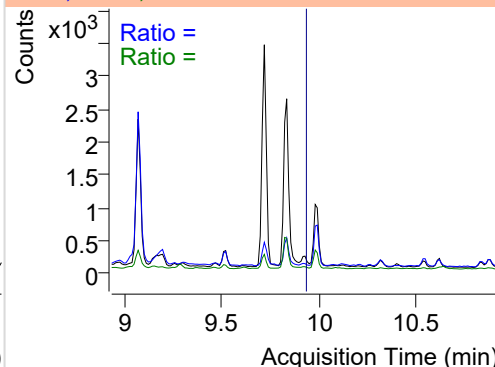


Anthracene

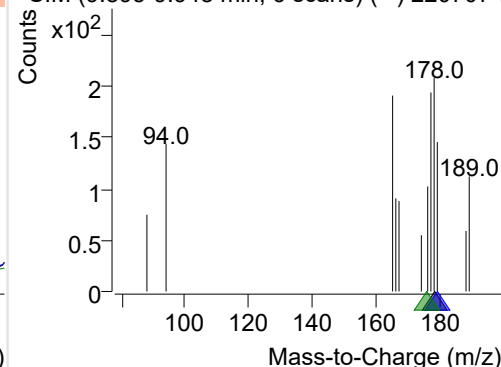
+ Selected Ion (178.0) 220707-PAHs-040.D



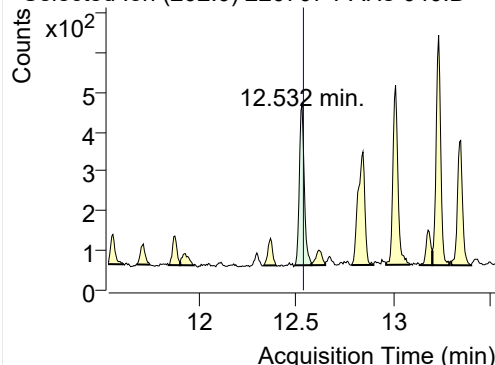
178.0, 179.0, 176.0



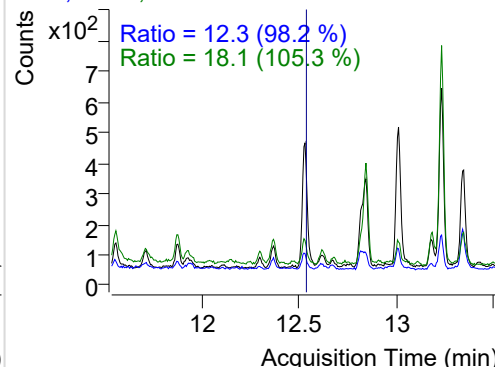
+ SIM (9.895-9.948 min, 6 scans) (**) 220707-I

**Fluoranthene**

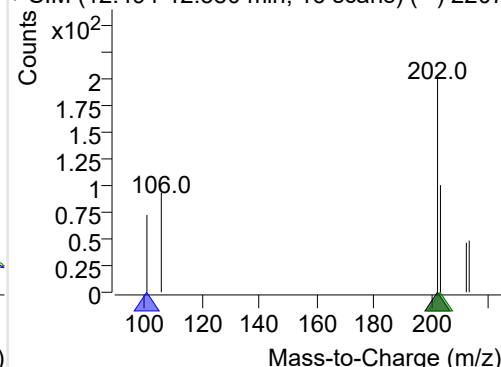
+ Selected Ion (202.0) 220707-PAHs-040.D



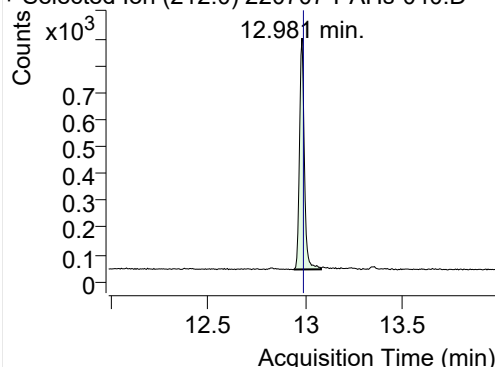
202.0, 101.0, 203.0



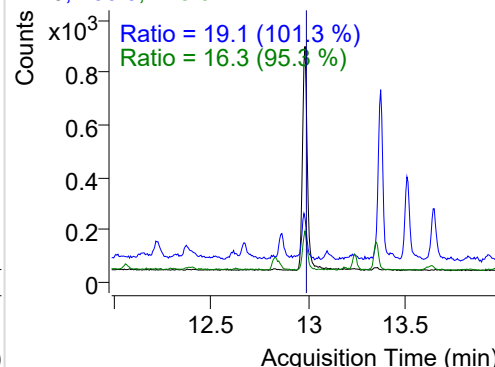
+ SIM (12.494-12.580 min, 16 scans) (**) 2207

**LSS-D10-Pyrene**

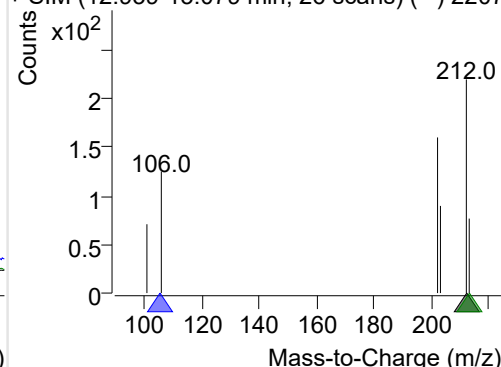
+ Selected Ion (212.0) 220707-PAHs-040.D



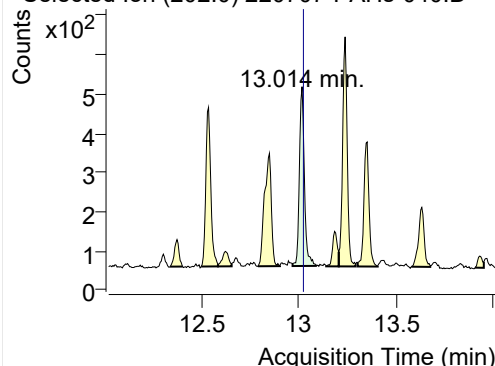
212.0, 106.0, 213.0



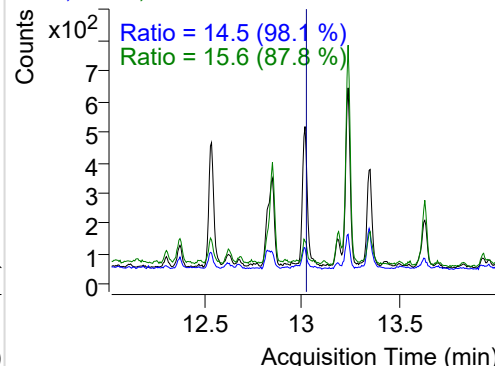
+ SIM (12.939-13.079 min, 26 scans) (**) 2207

**Pyrene**

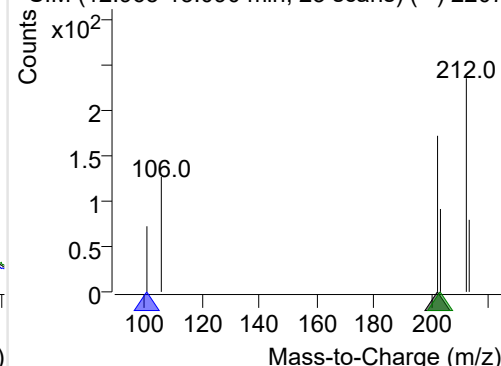
+ Selected Ion (202.0) 220707-PAHs-040.D



202.0, 101.0, 203.0



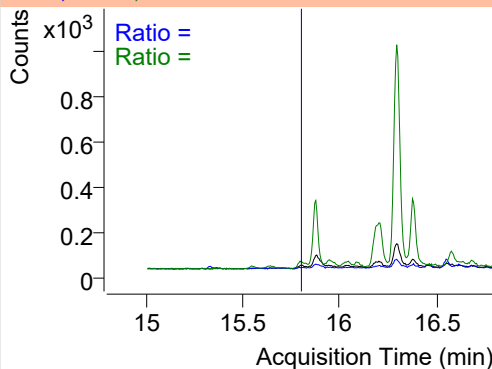
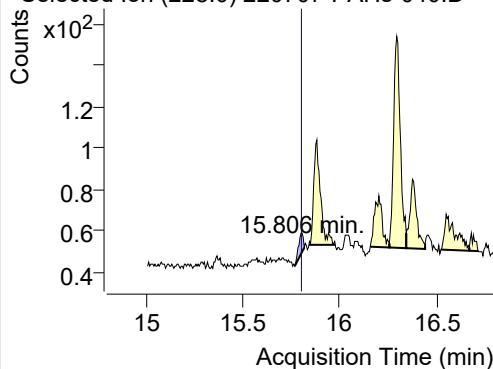
+ SIM (12.965-13.090 min, 23 scans) (**) 2207



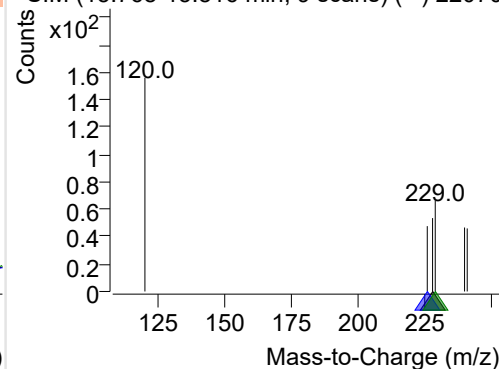
Benz(a)anthracene

+ Selected Ion (228.0) 220707-PAHs-040.D

228.0, 226.0, 229.0

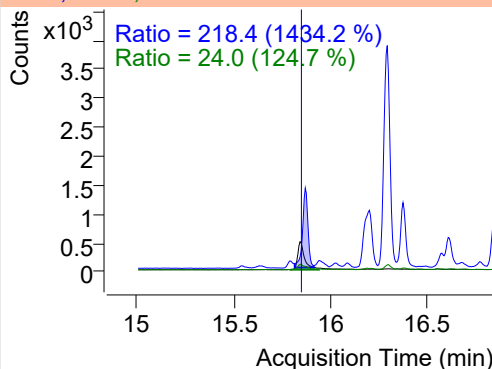
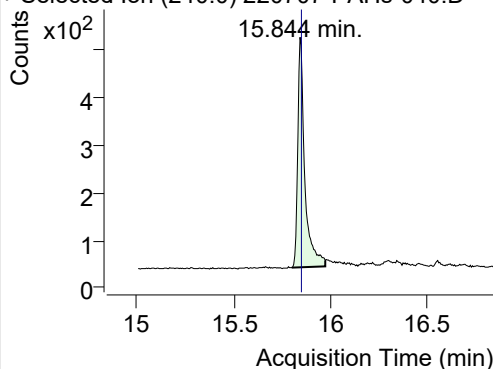


+ SIM (15.768-15.816 min, 9 scans) (**) 22070

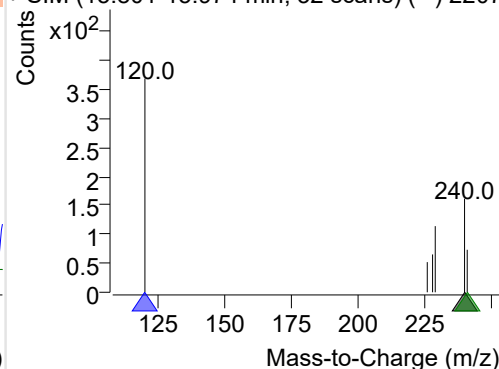
**IS-D12-Chrysene**

+ Selected Ion (240.0) 220707-PAHs-040.D

240.0, 120.0, 241.0

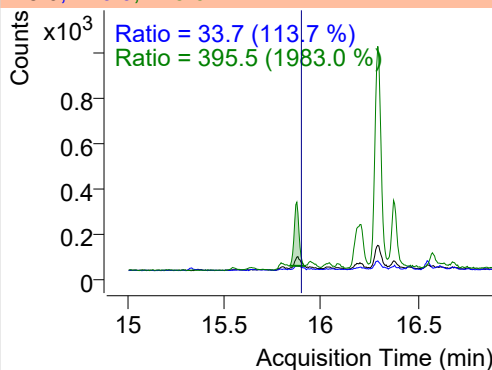
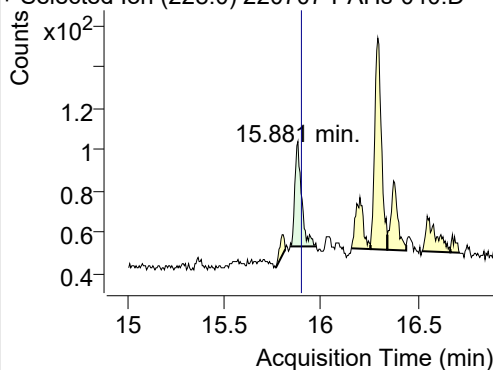


+ SIM (15.801-15.974 min, 32 scans) (**) 2207

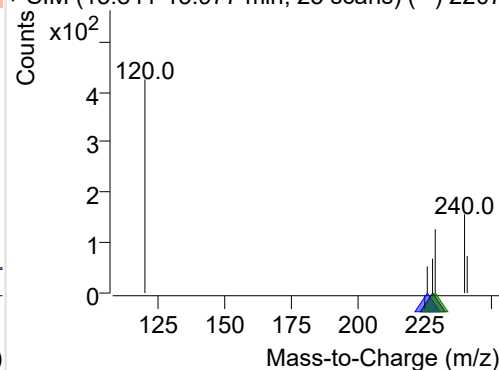
**Chrysene**

+ Selected Ion (228.0) 220707-PAHs-040.D

228.0, 226.0, 229.0

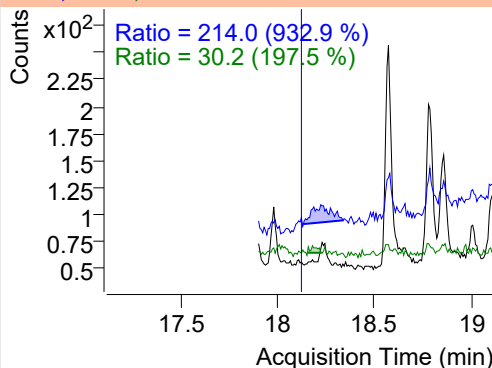
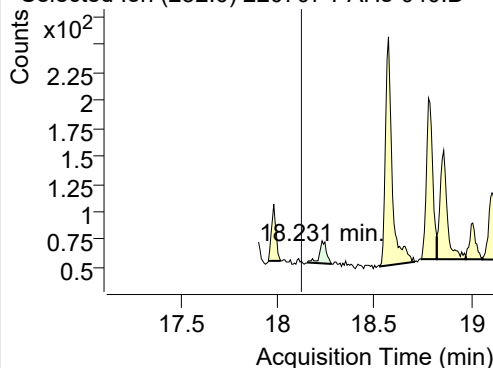


+ SIM (15.841-15.977 min, 25 scans) (**) 2207

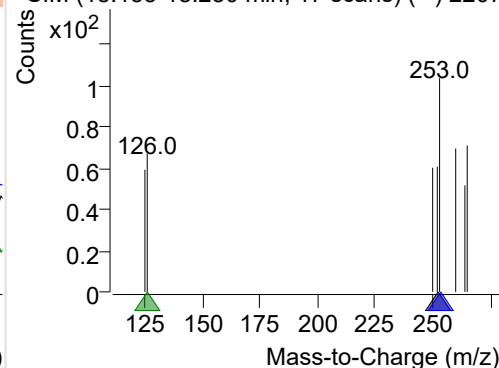
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 220707-PAHs-040.D

252.0, 253.0, 126.0



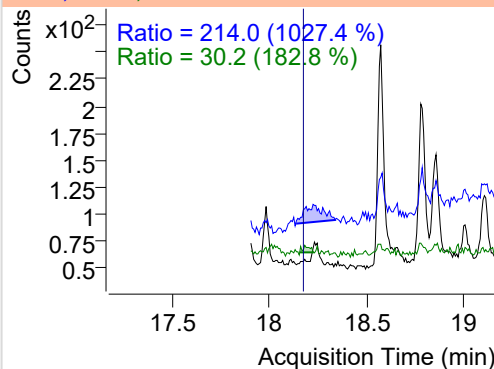
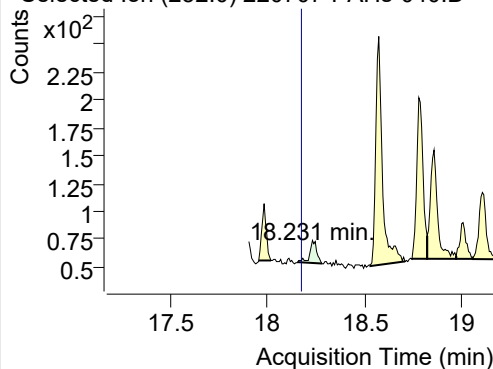
+ SIM (18.155-18.280 min, 17 scans) (**) 2207



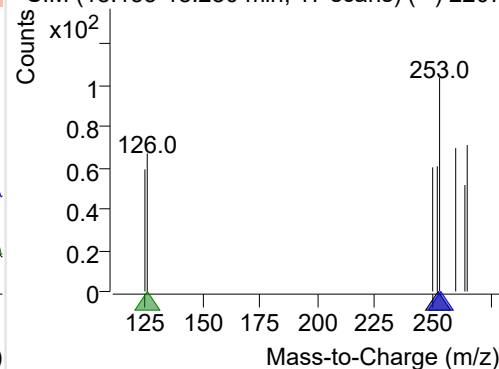
Benzo(k)fluoranthene

+ Selected Ion (252.0) 220707-PAHs-040.D

252.0, 253.0, 126.0

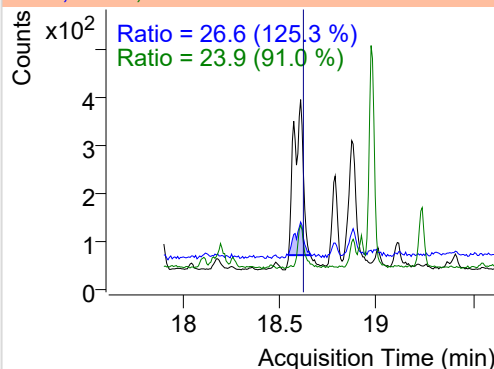
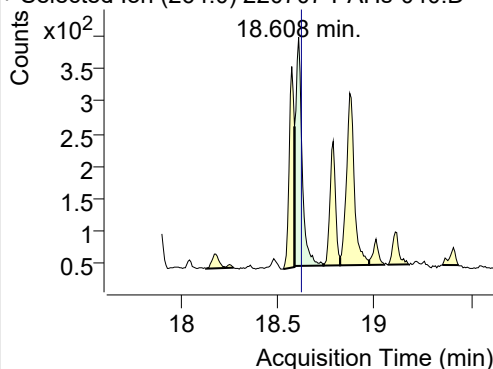


+ SIM (18.155-18.280 min, 17 scans) (**) 2207

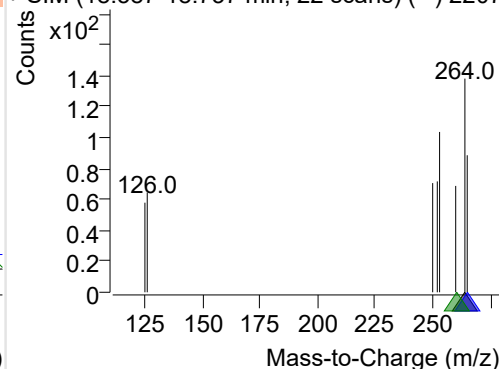
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 220707-PAHs-040.D

264.0, 265.0, 260.0

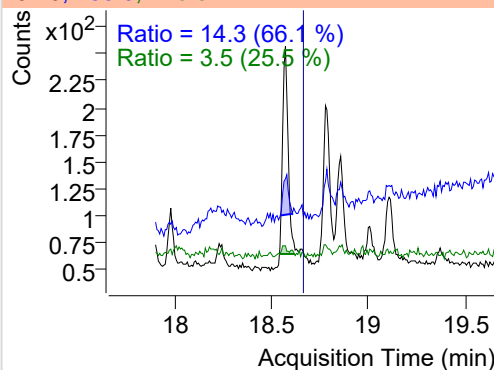
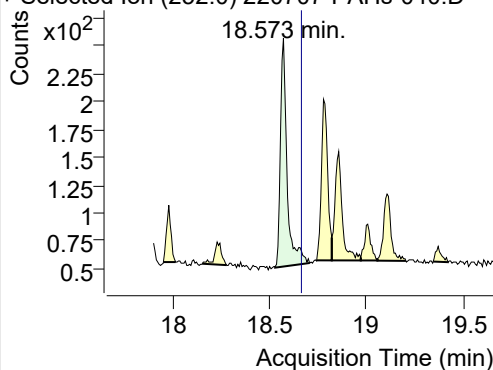


+ SIM (18.587-18.737 min, 22 scans) (**) 2207

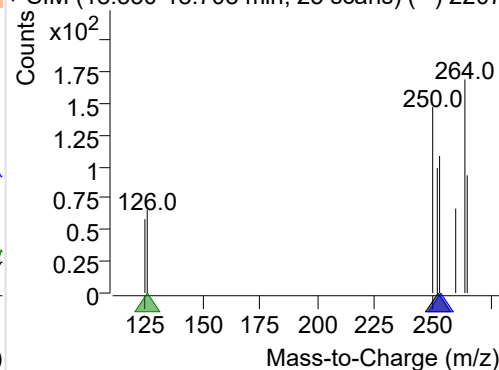
**Benzo(e)pyrene**

+ Selected Ion (252.0) 220707-PAHs-040.D

252.0, 253.0, 126.0

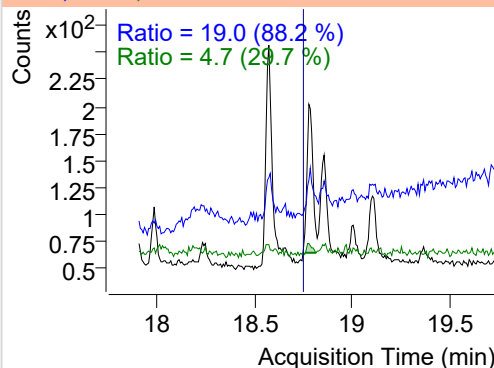
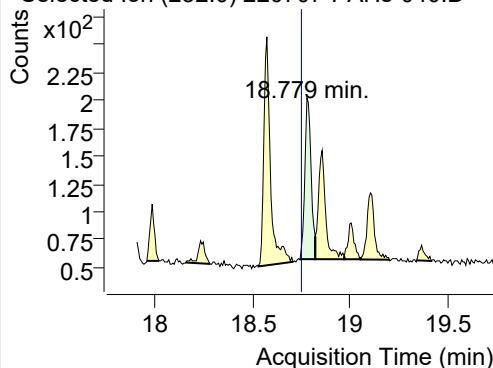


+ SIM (18.530-18.708 min, 25 scans) (**) 2207

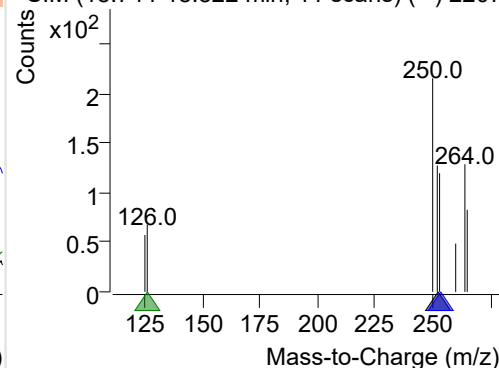
**Benzo(a)pyrene**

+ Selected Ion (252.0) 220707-PAHs-040.D

252.0, 253.0, 126.0



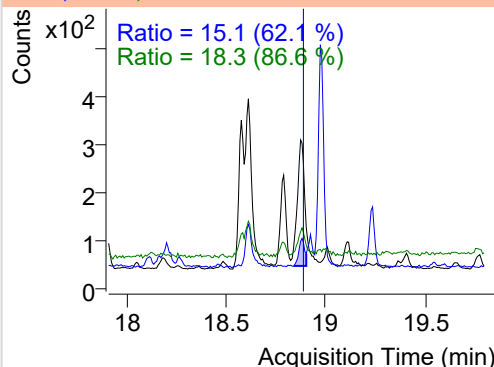
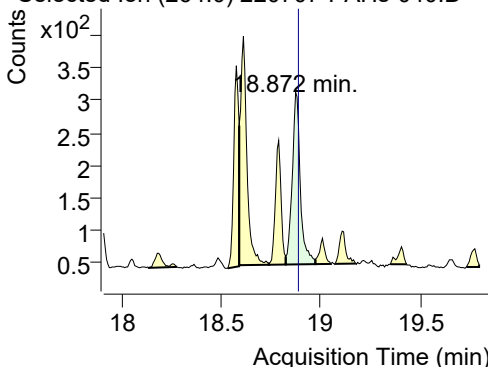
+ SIM (18.744-18.822 min, 11 scans) (**) 2207



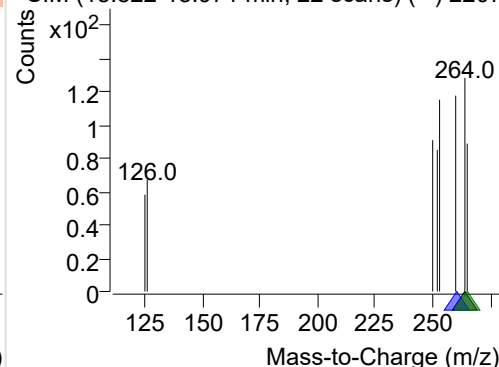
IS-D12-Perylene

+ Selected Ion (264.0) 220707-PAHs-040.D

264.0, 260.0, 265.0



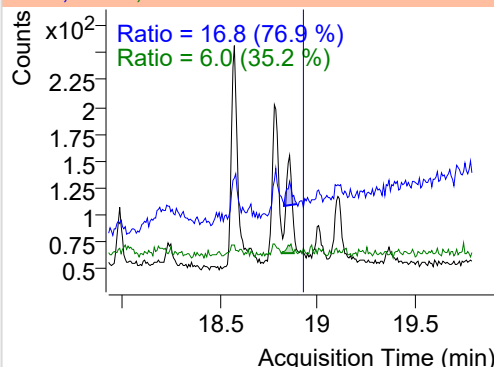
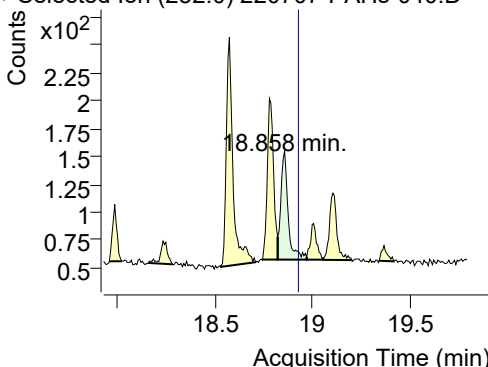
+ SIM (18.822-18.971 min, 22 scans) (**) 2207



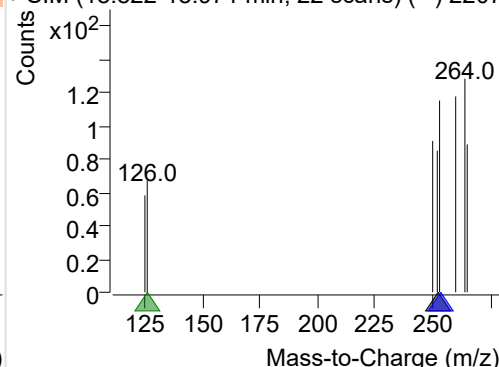
Perylene

+ Selected Ion (252.0) 220707-PAHs-040.D

252.0, 253.0, 126.0



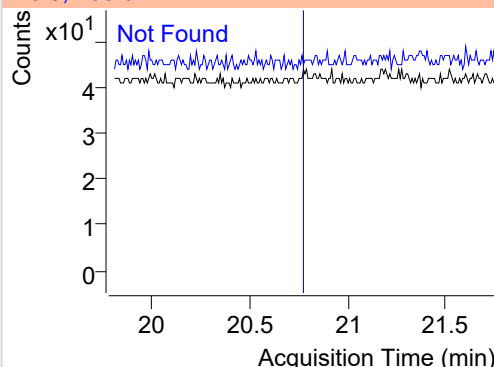
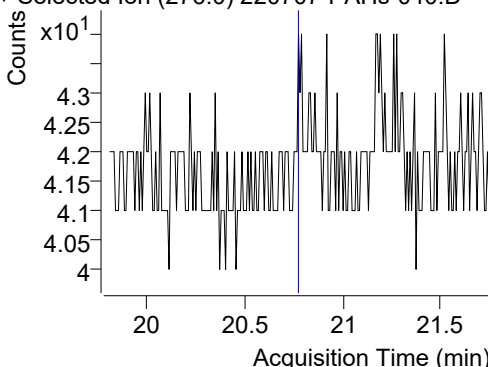
+ SIM (18.822-18.971 min, 22 scans) (**) 2207



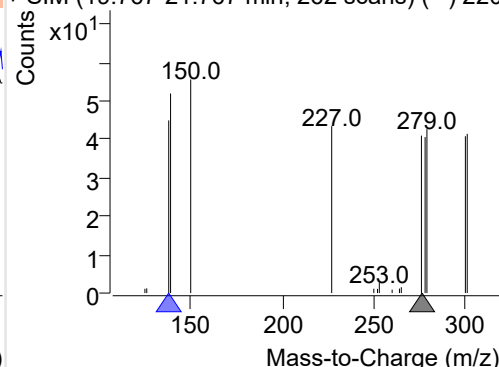
Indeno(1,2,3-c,d)pyrene

+ Selected Ion (276.0) 220707-PAHs-040.D

276.0, 138.0



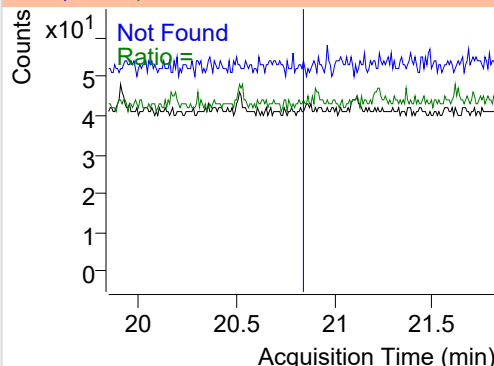
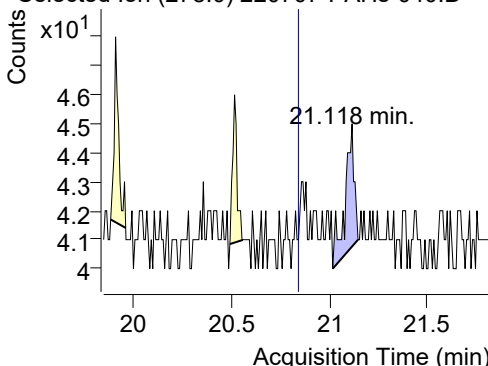
+ SIM (19.767-21.767 min, 262 scans) (**) 2207



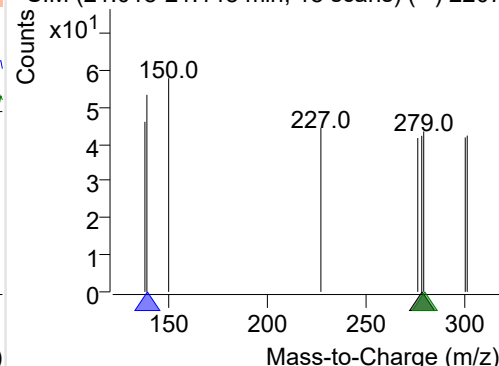
Dibenz(a,h)anthracene

+ Selected Ion (278.0) 220707-PAHs-040.D

278.0, 139.0, 279.0



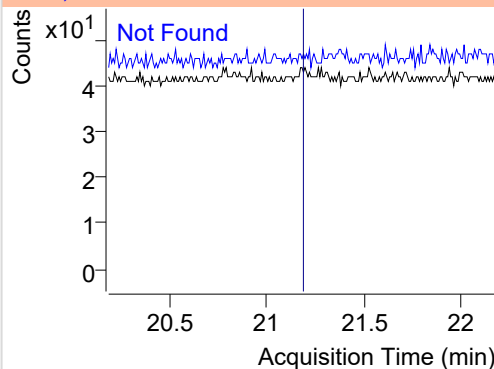
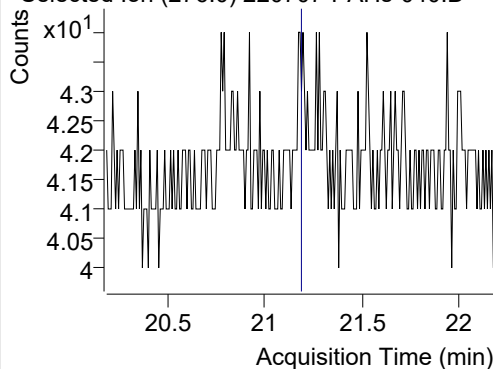
+ SIM (21.018-21.148 min, 18 scans) (**) 2207



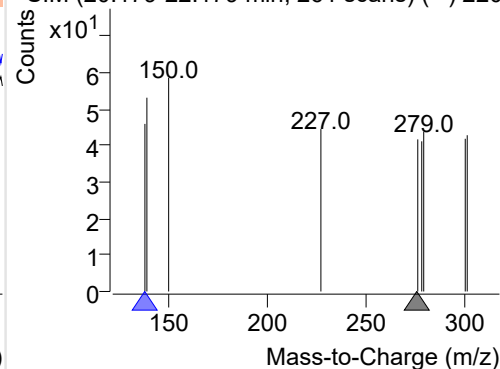
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 220707-PAHs-040.D

276.0, 138.0

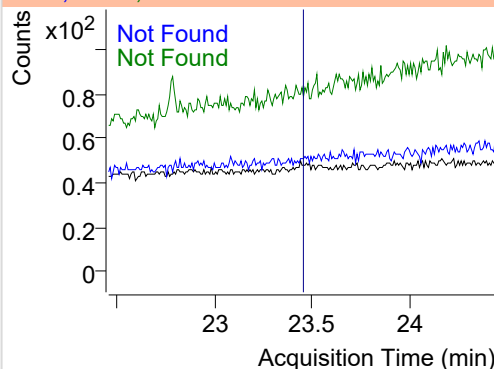
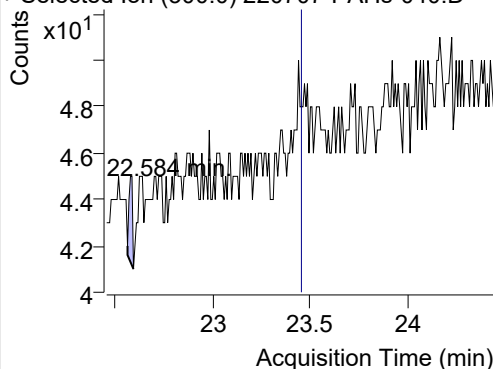


+ SIM (20.179-22.179 min, 261 scans) (**) 220

**Coronene**

+ Selected Ion (300.0) 220707-PAHs-040.D

300.0, 301.0, 150.0



+ SIM (22.561-22.591 min, 5 scans) (**) 22070

