

Site-specific lipidomic signatures of sea lettuce (*Ulva* spp., Chlorophyta) hold the potential to trace their geographic origin

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Table S1. Biochemical composition of *Ulva* spp. specimens from Albufeira (Al), Peniche (Pe), Ria Arousa (RAr), Ria de Aveiro (RAv), Ria Formosa (RF), Ria de Pontevedra (RP), Ria de Vigo (RV), Sado Estuary (SE), and Viana do Castelo (VC), mean \pm S D, % ($n = 5$).

	Lipid content		Protein		Carbohydrates and others		Ash	
	Mean, %	\pm SD, %	Mean, %	\pm SD, %	Mean, %	\pm SD, %	Mean, %	\pm SD, %
Al	0.51	0.06	9.08	0.41	71.93	1.62	18.48	1.92
Pe	1.20	0.28	18.13	1.26	53.36	1.30	27.31	0.82
RAr	0.50	0.12	6.59	0.34	67.49	1.59	25.42	1.57
RAv	0.40	0.07	8.55	0.29	63.26	2.40	27.79	2.51
RF	0.34	0.06	6.23	0.27	78.67	0.31	14.77	0.09
RP	1.77	0.07	9.90	0.84	66.16	3.95	22.17	3.91
RV	0.47	0.08	4.70	0.31	69.20	1.41	25.63	1.26
SE	0.39	0.13	12.57	0.48	73.56	1.15	13.48	0.80
VC	0.64	0.05	8.60	0.18	70.57	0.53	20.19	0.41

Table S2. Biochemical parameters of *Ulva* spp. from nine locations along the Atlantic western and south-western Iberian coast: Albufeira (Al), Ria de Aveiro (RAv), Peniche (Pe), Ria Arousa (RAr), Ria Formosa (RF), Ria de Pontevedra (RP), Ria de Vigo (RV), Sado Estuary (SE), and Viana do Castelo (VC). Significant difference ($p < 0.05$) among different locations are highlighted in grey shaded cells and bold font numbers.

Contrast	Lipids	Protein	Carbohydrates	Ash	
Al	RAv	0.5492	0.8439	<0.0001	<0.0001
	Pe	<0.0001	<0.0001	<0.0001	<0.0001
	RAr	1.0000	<0.0001	0.0017	<0.0001
	RF	0.0254	<0.0001	0.0001	0.0007
	RP	<0.0001	0.9858	0.0009	0.0151
	RV	0.9989	<0.0001	0.1372	<0.0001
	SE	0.3542	<0.0001	0.9484	<0.0001
	VC	0.7103	1.0000	0.8604	0.7508
RAv	Pe	<0.0001	<0.0001	<0.0001	1.0000
	RAr	0.6985	0.0015	0.9304	0.7429
	RF	0.8923	<0.0000	<0.0001	<0.0001
	RP	<0.0001	<0.0001	0.9663	0.0006
	RV	0.9258	<0.0001	0.1749	0.8323
	SE	1.0000	<0.0001	<0.0001	<0.0001
	VC	0.0087	1.0000	0.0035	<0.0001
Pe	RAr	<0.0001	<0.0001	<0.0001	0.9073
	RF	<0.0001	<0.0001	<0.0001	<0.0001
	RP	0.0593	<0.0001	<0.0001	0.0024
	RV	<0.0001	<0.0001	<0.0001	0.9529
	SE	<0.0001	<0.0001	<0.0001	0.0001
	VC	<0.0001	<0.0001	<0.0001	<0.0001
	RF	0.0477	0.2034	<0.0001	<0.0001
RAr	RP	0.0001	<0.0001	1.0000	0.1828
	RV	0.9999	<0.0001	0.9243	1.0000
	SE	0.4965	<0.0001	<0.0001	<0.0001
	VC	0.5618	<0.0001	0.2018	0.0004
	RF	<0.0001	<0.0001	<0.0001	<0.0001
RF	RV	0.1520	<0.0001	<0.0001	<0.0001
	SE	0.9716	<0.0001	0.0166	0.7159
	VC	0.0001	<0.0001	<0.0001	<0.0001
	RV	<0.0001	<0.0001	0.8661	0.1259
RP	SE	<0.0001	<0.0001	<0.0001	<0.0001
	VC	<0.0001	0.9970	0.1415	0.6842
RV	SE	0.7969	<0.0001	0.0024	<0.0001
	VC	0.2734	<0.0001	0.9475	0.0002
SE	VC	0.0032	<0.0001	0.1384	<0.0001

Table S3. Glycolipids, phospholipids, and betaine lipids identified by LC-MS and MS/MS on *Ulva* spp. specimens collected from nine different locations (mass error < 5 ppm). Observed *m/z* and respective error were checked for all samples. Numbers in parenthesis (C:N) indicates the total number of carbon atoms (C) and total double bonds (N) in the fatty acyl chains.

Lipid species (C:N)	Calculated <i>m/z</i>	Observed <i>m/z</i>	Error (ppm)	Formula
[M + NH₄]⁺				
MGMG (16:4)	502.3016	502.3005	-2.2078	C25H44NO9
MGMG (16:3)	504.3173	504.3175	0.4779	C25H46NO9
MGMG (16:2)	506.3329	506.3317	-2.3878	C25H48NO9
MGMG (16:1)	508.3486	508.3475	-2.0832	C25H50NO9
MGMG (16:0)	510.3642	510.3630	-2.3513	C25H52NO9
MGMG (18:4)	530.3329	530.3320	-1.7140	C27H48NO9
MGMG (18:3)	532.3486	532.3482	-0.6744	C27H50NO9
MGMG (18:1)	536.3799	536.3784	-2.7201	C27H54NO9
DGMG (16:4)	664.3544	664.3524	-3.0616	C31H54NO14
DGMG (16:3)	666.3701	666.3692	-1.3266	C31H56NO14
DGMG (16:2)	668.3857	668.3846	-1.6966	C31H58NO14
DGMG (16:1)	670.4013	670.4006	-1.1694	C31H60NO14
DGMG (16:0)	672.4170	672.4192	3.2718	C31H62NO14
MGDG (30:4)	712.5000	712.4971	-4.0702	C39H70NO10
MGDG (32:8)	732.4687	732.4677	-1.3652	C41H66NO10
MGDG (32:7)	734.4843	734.4825	-2.4507	C41H68NO10
MGDG (32:6)	736.4994	736.4983	-1.4936	C41H70NO10
MGDG (32:5)	738.5156	738.5149	-0.9803	C41H72NO10
MGDG (32:4)	740.5307	740.5295	-1.6205	C41H74NO10
MGDG (32:3)	742.5464	742.5443	-2.8281	C41H76NO10
MGDG (32:2)	744.5626	744.5604	-2.9548	C41H78NO10
MGDG (32:1)	746.5777	746.5767	-1.3394	C41H80NO10
MGDG (32:0)	748.5939	748.5919	-2.6369	C41H82NO10
MGDG (34:8)	760.5000	760.4995	-0.6575	C43H70NO10
MGDG (34:7)	762.5156	762.5133	-3.0478	C43H72NO10
MGDG (34:6)	764.5312	764.5306	-0.8803	C43H74NO10
MGDG (34:5)	766.5470	766.5461	-1.0750	C43H76NO10
MGDG (34:4)	768.5626	768.5610	-2.0818	C43H78NO10
MGDG (34:3)	770.5782	770.5767	-1.9777	C43H80NO10
MGDG (34:2)	772.5933	772.5911	-2.8476	C43H82NO10
MGDG (34:1)	774.6090	774.6075	-1.9365	C43H84NO10
MGDG (36:9)	786.5156	786.5145	-1.3986	C45H72NO10
MGDG (36:8)	788.5313	788.5295	-2.2447	C45H74NO10
MGDG (36:7)	790.5469	790.5463	-0.7590	C45H76NO10

MGDG (36:6)	792.5625	792.5629	0.5047	C45H78NO10
MGDG (36:5)	794.5782	794.5774	-1.0068	C45H80NO10
MGDG (36:4)	796.5933	796.5912	-2.6362	C45H82NO10
MGDG (38:9)	814.5469	814.5468	-0.1522	C47H76NO10
DGDG (28:0)	854.5841	854.5838	-0.3510	C43H84O15N
DGDG (30:1)	880.5997	880.5990	-0.7949	C45H86O15N
DGDG (32:4)	902.5841	902.5827	-1.5511	C47H84O15N
DGDG (32:3)	904.5997	904.5982	-1.6582	C47H86O15N
DGDG (32:2)	906.6154	906.6137	-1.8751	C47H88O15N
DGDG (32:1)	908.6310	908.6281	-3.1916	C47H90O15N
DGDG (32:0)	910.6467	910.6448	-2.0864	C47H92O15N
DGDG (34:8)	922.5528	922.5513	-1.6259	C49H80O15N
DGDG (34:7)	924.5684	924.5654	-3.2448	C49H82O15N
DGDG (34:6)	926.5841	926.5827	-1.5109	C49H84O15N
DGDG (34:5)	928.5997	928.5984	-1.4000	C49H86O15N
DGDG (34:4)	930.6154	930.6150	-0.4298	C49H88O15N
DGDG (34:3)	932.6310	932.6305	-0.5361	C49H90O15N
DGDG (34:2)	934.6467	934.6451	-1.7119	C49H92O15N
DGDG (34:1)	936.6623	936.6592	-3.3096	C49H94O15N
DGDG (36:7)	952.5997	952.5989	-0.8398	C51H86O15N
DGDG (36:6)	954.6154	954.6139	-1.5713	C51H88O15N
DGDG (36:5)	956.6310	956.6279	-3.2405	C51H90O15N
DGDG (36:4)	958.6467	958.6437	-3.1294	C51H92O15N
DGDG (36:3)	960.6623	960.6582	-4.2679	C51H94O15N
DGDG (36:2)	962.6780	962.6746	-3.5318	C51H96O15N
DGDG (38:9)	976.5997	976.5982	-1.5359	C53H86O15N
<hr/> [M + H]⁺ <hr/>				
DGTS (28:0)	656.5465	656.5451	-2.1324	C38H74O7N
DGTS (30:2)	680.5465	680.5440	-3.6735	C40H74O7N
DGTS (30:1)	682.5622	682.5608	-2.0511	C40H76O7N
DGTS (30:0)	684.5778	684.5761	-2.4833	C40H78O7N
DGTS (32:4)	704.5465	704.5448	-2.4129	C42H74O7N
DGTS (32:3)	706.5622	706.5601	-2.9721	C42H76O7N
DGTS (32:2)	708.5778	708.5762	-2.2580	C42H78O7N
DGTS (32:1)	710.5935	710.5917	-2.5331	C42H80O7N
DGTS (32:0)	712.6091	712.6056	-4.9115	C42H82O7N
DGTS (34:8)	724.5152	724.5144	-1.1442	C44H70O7N
DGTS (34:7)	726.5309	726.5282	-3.6874	C44H72O7N
DGTS (34:6)	728.5465	728.5447	-2.4707	C44H74O7N
DGTS (34:5)	730.5622	730.5610	-1.6426	C44H76O7N
DGTS (34:4)	732.5778	732.5761	-2.3206	C44H78O7N
DGTS (34:3)	734.5935	734.5913	-2.9949	C44H80O7N
DGTS (34:2)	736.6091	736.6067	-3.2582	C44H82O7N

DGTS (34:1)	738.6248	738.6216	-4.3324	C44H84O7N
DGTS (36:8)	752.5465	752.5447	-2.4185	C46H74O7N
DGTS (36:7)	754.5622	754.5591	-4.1083	C46H76O7N
DGTS (36:6)	756.5778	756.5747	-4.0974	C46H78O7N
DGTS (36:5)	758.5935	758.5918	-2.2410	C46H80O7N
DGTS (36:4)	760.6091	760.6068	-3.0239	C46H82O7N
DGTS (36:3)	762.6248	762.6238	-1.3113	C46H84O7N
DGTS (36:2)	764.6404	764.6398	-0.7847	C46H86O7N
DGTS (38:10)	776.5465	776.5430	-4.5445	C48H74O7N
DGTS (38:9)	778.5622	778.5593	-3.7248	C48H76O7N
DGTS (38:8)	780.5778	780.5750	-3.5871	C48H78O7N
DGTS (38:7)	782.5935	782.5902	-4.2167	C48H80O7N
DGTS (38:6)	784.6091	784.6086	-0.6373	C48H82O7N
DGTS (38:5)	786.6248	786.6233	-1.9069	C48H84O7N
DGTS (38:4)	788.6404	788.6377	-3.4236	C48H86O7N
DGTS (40:9)	806.5935	806.5911	-2.9755	C50H80O7N
DGTS (40:8)	808.6091	808.6058	-4.0811	C50H82O7N
DGTS (40:7)	810.6248	810.6240	-0.9869	C50H84O7N
DGTS (40:6)	812.6404	812.6424	2.4611	C50H86O7N
DGTS (40:5)	814.6561	814.6572	1.3503	C50H88O7N
DGTS (40:4)	816.6717	816.6706	-1.3469	C50H90O7N
DGTS (42:11)	830.5935	830.5900	-4.1886	C52H80O7N
DGTS (42:10)	832.6091	832.6056	-4.2373	C52H82O7N
DGTS (42:9)	834.6248	834.6232	-1.8919	C52H84O7N
DGTS (44:10)	860.6404	860.6368	-4.2166	C54H86O7N
MGTS (14:0)	446.3482	446.3473	-1.9357	C24H48O6N
MGTS (16:4)	466.3169	466.3154	-3.1395	C26H44O6N
MGTS (16:3)	468.3325	468.3311	-3.0192	C26H46O6N
MGTS (16:2)	470.3482	470.3477	-0.9865	C26H48O6N
MGTS (16:1)	472.3638	472.3623	-3.2052	C26H50O6N
MGTS (16:0)	474.3795	474.3786	-1.8972	C26H52O6N
MGTS (18:4)	494.3482	494.3468	-2.7592	C28H48O6N
MGTS (18:3)	496.3638	496.3628	-2.0429	C28H50O6N
MGTS (18:2)	498.3794	498.3791	-0.7304	C28H52O6N
MGTS (18:1)	500.3951	500.3948	-0.6275	C28H54O6N
MGTS (18:0)	502.4108	502.4104	-0.7245	C28H56O6N
MGTS (20:5)	520.3638	520.3624	-2.7173	C30H50O6N
MGTS (20:4)	522.3795	522.3784	-2.0368	C30H52O6N
MGTS (20:0)	530.4421	530.4403	-3.3255	C30H60O6N
MGTS (22:5)	548.3951	548.3941	-1.8490	C32H54O6N
MGTS (22:1)	556.4577	556.4561	-2.9005	C32H62O6N
MGTS (22:0)	558.4734	558.4716	-3.1586	C32H64O6N
PC (30:3)	700.4917	700.4884	-4.7567	C38H71NO8P

PC (30:0)	706.5387	706.5372	-2.0975	C38H77NO8P
PC (32:3)	728.5230	728.5227	-0.4557	C40H75NO8P
PC (32:2)	730.5387	730.5381	-0.7967	C40H77NO8P
PC (32:0)	734.5700	734.5668	-4.3318	C40H81NO8P
PC (34:5)	752.5230	752.5220	-1.3714	C42H75NO8P
PC (34:4)	754.5387	754.5355	-4.2171	C42H77NO8P
PC (34:3)	756.5543	756.5531	-1.6271	C42H79NO8P
PC (34:2)	758.5700	758.5683	-2.2173	C42H81NO8P
PC (34:1)	760.5856	760.5830	-3.4605	C42H83NO8P
PC (36:6)	778.5387	778.5371	-2.0320	C44H77NO8P
PC (36:5)	780.5543	780.5529	-1.8333	C44H79NO8P
PC (36:4)	782.5700	782.5674	-3.2994	C44H81NO8P
PC (36:3)	784.5856	784.5840	-2.0801	C44H83NO8P
PC (36:2)	786.6013	786.5982	-3.9181	C44H85NO8P
PC (38:8)	802.5387	802.5367	-2.4946	C46H77NO8P
PC (38:7)	804.5543	804.5526	-2.1515	C46H79NO8P
PC (38:6)	806.5700	806.5692	-0.9695	C46H81NO8P
PC (38:5)	808.5856	808.5821	-4.3681	C46H83NO8P
PC (38:4)	810.6013	810.5975	-4.6657	C46H85NO8P
PC (40:10)	826.5387	826.5352	-4.2127	C48H77NO8P
PC (40:9)	828.5543	828.5507	-4.3823	C48H79NO8P
PC (40:8)	830.5699	830.5671	-3.4699	C48H81NO8P
PC (40:7)	832.5856	832.5826	-3.6417	C48H83NO8P
LPE (20:4)	502.2934	502.2914	-3.9160	C25H45NO7P
LPE (22:5)	528.3090	528.3084	-1.1679	C27H47NO7P
PE (30:1)	662.4761	662.4748	-1.9352	C35H69NO8P
PE (30:0)	664.4917	664.4894	-3.5094	C35H71NO8P
PE (32:4)	684.4604	684.4576	-4.1376	C37H67NO8P
PE (32:2)	688.4917	688.4908	-1.3537	C37H71O8NP
PE (32:1)	690.5074	690.5051	-3.3048	C37H73NO8P
PE (32:0)	692.5230	692.5201	-4.2338	C37H75NO8P
PE (34:5)	710.4761	710.4737	-3.3527	C39H69NO8P
PE (34:3)	714.5074	714.5061	-1.7942	C39H73O8NP
PE (34:2)	716.5230	716.5216	-1.9985	C39H75NO8P
PE (34:1)	718.5387	718.5355	-4.4284	C39H77NO8P
PE (36:6)	736.4917	736.4916	-0.1792	C41H71NO8P
PE (36:5)	738.5074	738.5058	-2.1422	C41H73O8NP
PE (36:4)	740.5230	740.5209	-2.8790	C41H75NO8P
PE (36:3)	742.5387	742.5364	-3.0732	C41H77NO8P
PE (36:2)	744.5543	744.5515	-3.8023	C41H79O8NP
PE (40:9)	786.5074	786.5055	-2.3929	C45H73O8NP
PE (40:8)	788.5230	788.5235	0.5935	C45H75O8NP
LPC (16:0)	496.3403	496.3395	-1.6440	C24H51NO7P

LPC (18:1)	522.3560	522.3553	-1.2635	C26H51NO7P
LPC (22:6)	568.3403	568.3395	-1.4252	C30H51NO7P
[M - H]⁻				
SQDG (28:0)	737.4510	737.4507	-0.3756	C37H69O12S
SQDG (30:1)	763.4666	763.4660	-0.8213	C39H71O12S
SQDG (30:0)	765.4823	765.4819	-0.4925	C39H73O12S
SQDG (32:4)	785.4510	785.4497	-1.6258	C41H69O12S
SQDG (32:3)	787.4666	787.4657	-1.1772	C41H71O12S
SQDG (32:2)	789.4822	789.4785	-4.7841	C41H73O12S
SQDG (32:1)	791.4979	791.4969	-1.2975	C41H75O12S
SQDG (32:0)	793.5136	793.5125	-1.3560	C41H77O12S
SQDG (33:1)	805.5136	805.5128	-0.9634	C42H77O12S
SQDG (34:4)	813.4823	813.4829	0.7658	C43H73O12S
SQDG (34:3)	815.4979	815.4973	-0.7689	C43H75O12S
SQDG (34:2)	817.5136	817.5110	-3.1510	C43H77O12S
SQDG (34:1)	819.5292	819.5280	-1.4972	C43H79O12S
SQDG (36:5)	839.4979	839.4967	-1.4616	C45H75O12S
SQDG (36:4)	841.5136	841.5127	-1.0410	C45H77O12S
SQDG (36:3)	843.5292	843.5257	-4.1812	C45H79O12S
SQDG (36:2)	845.5449	845.5442	-0.8007	C45H81O12S
SQDG (36:1)	847.5605	847.5593	-1.4477	C45H83O12S
SQMG (16:0)	555.2839	555.2833	-1.1021	C25H47O11S
PI (34:2)	833.5180	833.5156	-2.8794	C43H78O13P
PI (38:10)	831.5024	831.4987	-4.4498	C47H70O13P
PI (34:3)	873.4554	873.4547	-0.8014	C43H76O13P
PI (38:4)	885.5493	885.5516	2.5973	C47H82O13P
PI (38:8)	877.4867	877.4866	-0.1140	C47H74O13P
PI (42:11)	927.5024	927.5010	-1.5094	C51H76O13P
PG (36:2)	773.5333	773.5322	-1.4220	C42H78O10P
PG (36:5)	767.4863	767.4858	-0.6515	C42H72O10P
PG (36:3)	771.5176	771.5172	-0.5185	C42H76O10P
PG (40:6)	821.5333	821.5329	-0.4869	C46H78O10P
PG (34:4)	741.4707	741.4685	-2.9671	C40H70O10P
PG (34:3)	743.4863	743.4851	-1.6140	C40H72O10P
PG (34:2)	745.5020	745.5011	-1.2072	C40H74O10P
PG (34:1)	747.5176	747.5161	-2.0066	C40H76O10P
PG (32:2)	717.4707	717.4719	1.6725	C38H70O10P
PG (32:1)	719.4863	719.4851	-1.6679	C38H72O10P
PG (32:0)	721.5020	721.5013	-0.9702	C38H74O10P
LPG (16:1)	481.2566	481.2569	0.5236	C22H42O9P

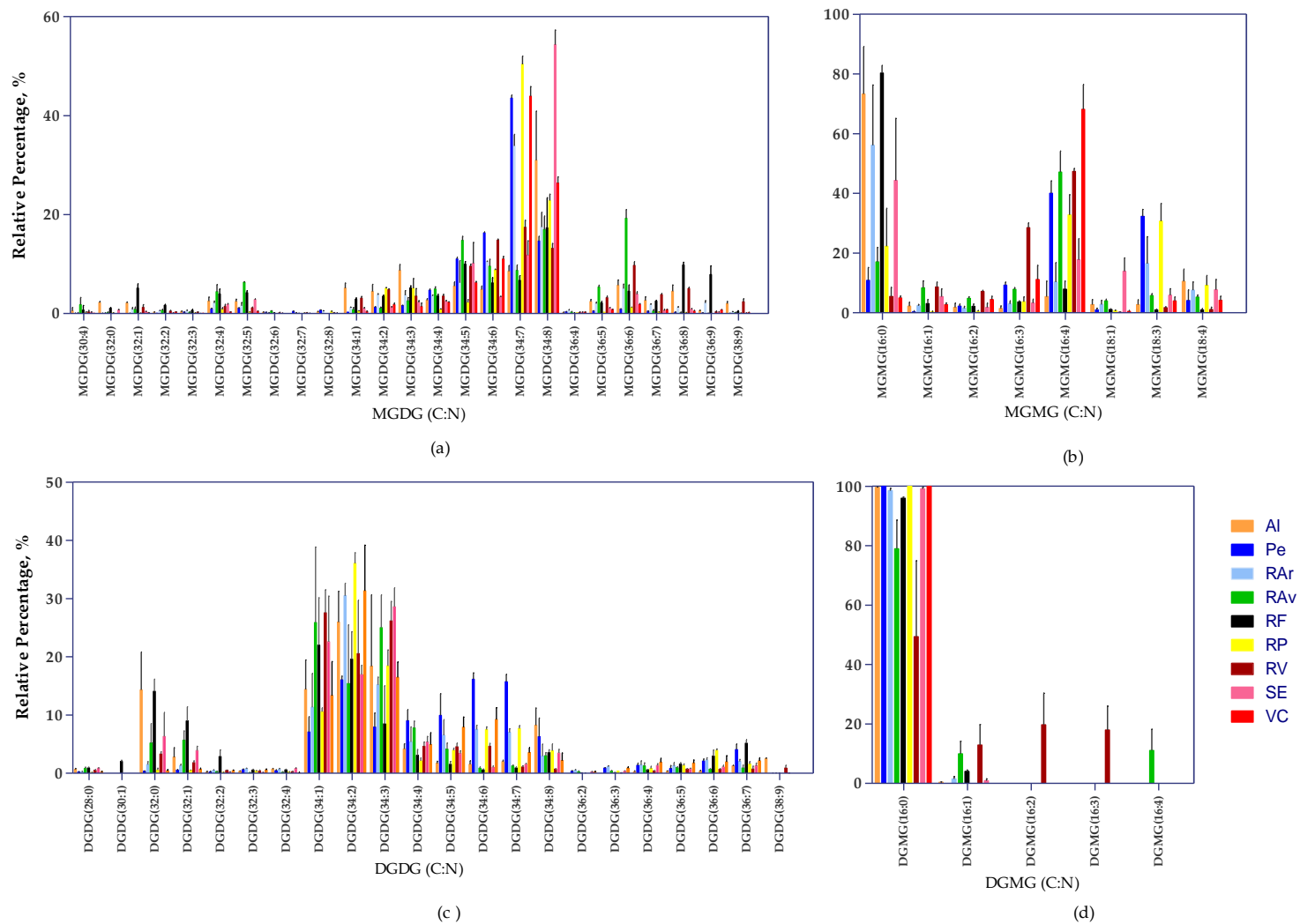


Figure S1. Relative percentage (%) of galactolipids identified by HILIC-LC-MS of *Ulva* spp. specimens from different geographic origins: a) MGDG, b) MGMG, c) DGDG, d) DGMG. Numbers in parentheses (C:N) indicates the number of total carbon atoms: total double bonds of fatty acyl chains.

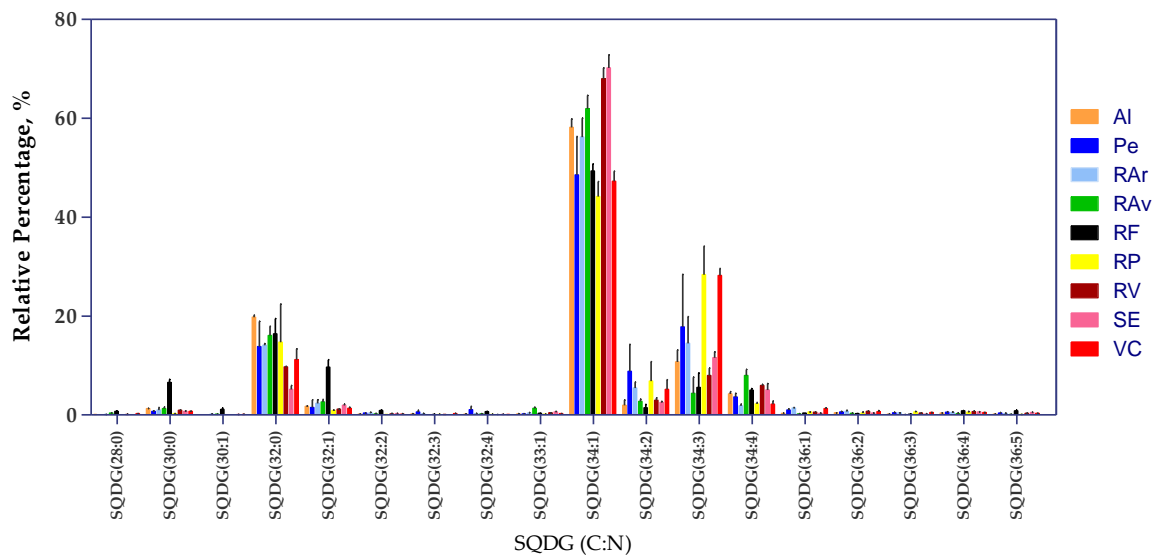


Figure S2. Relative percentage (%) of sulfolipids identified by HILIC-LC-MS of *Ulva* spp. specimens from different geographic origins: SQDG. Numbers in parentheses (C:N) indicates the number of total carbon atoms: total double bonds of fatty acyl chains.

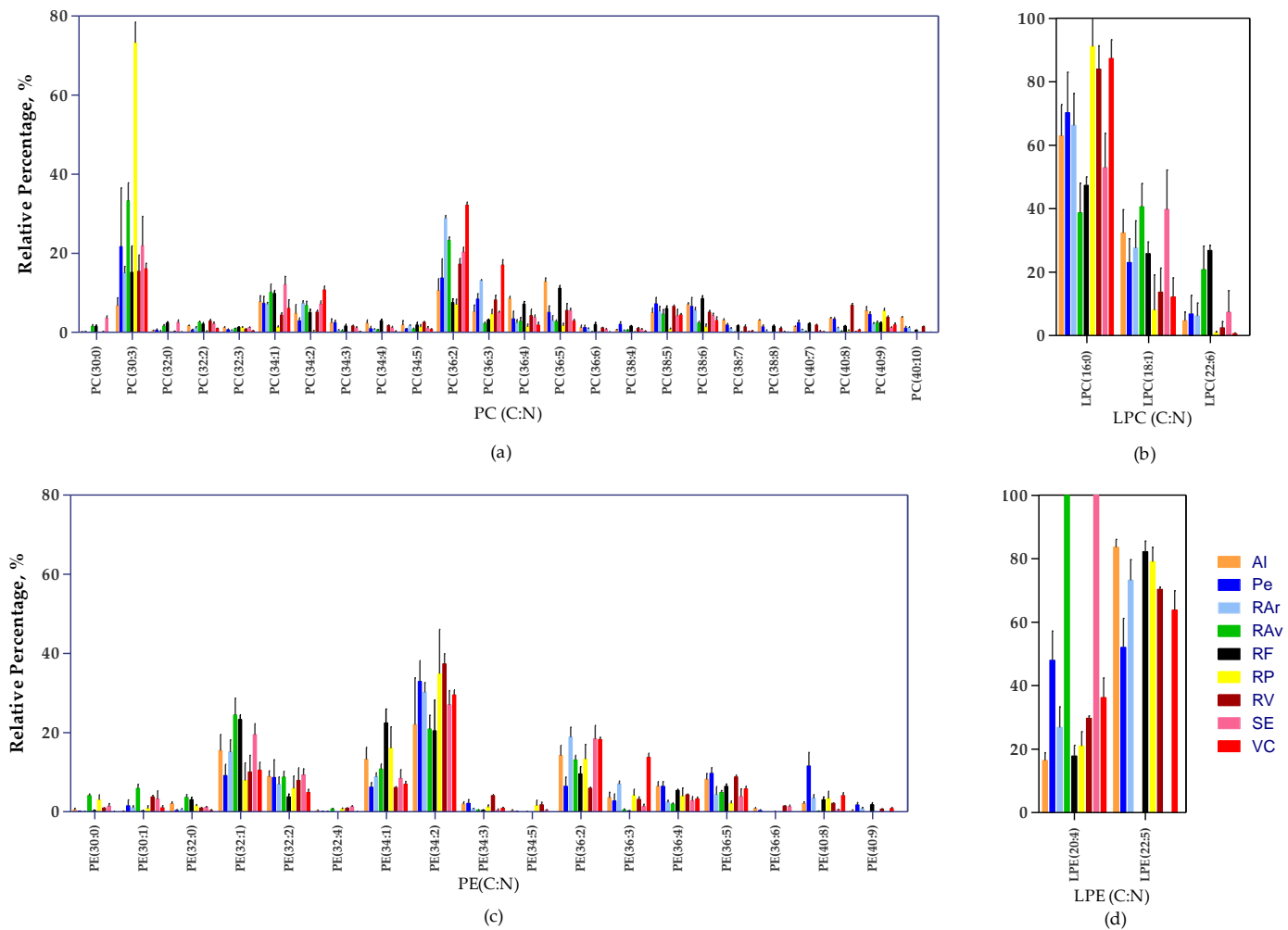


Figure S3. Relative percentage (%) of phospholipids identified by HILIC-LC-MS of *Ulva* spp. specimens from different geographic origins: a) PC, b) LPC, c) PE, d) LPE. Numbers in parentheses (C:N) indicates the number of total carbon atoms: total double bonds of fatty acyl chains.

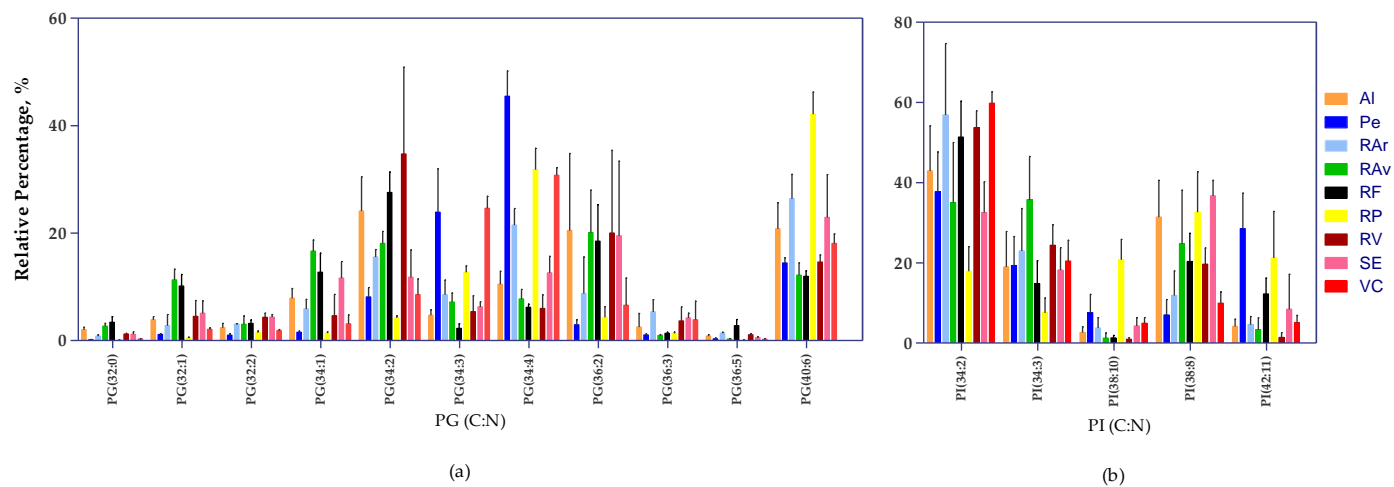


Figure S4. Relative percentage (%) of phospholipids identified by HILIC-LC-MS of *Ulva* spp. specimens from different geographic origins: a) PG, b) PI. Numbers in parentheses (C:N) indicates the number of total carbon atoms: total double bonds of fatty acyl chains.

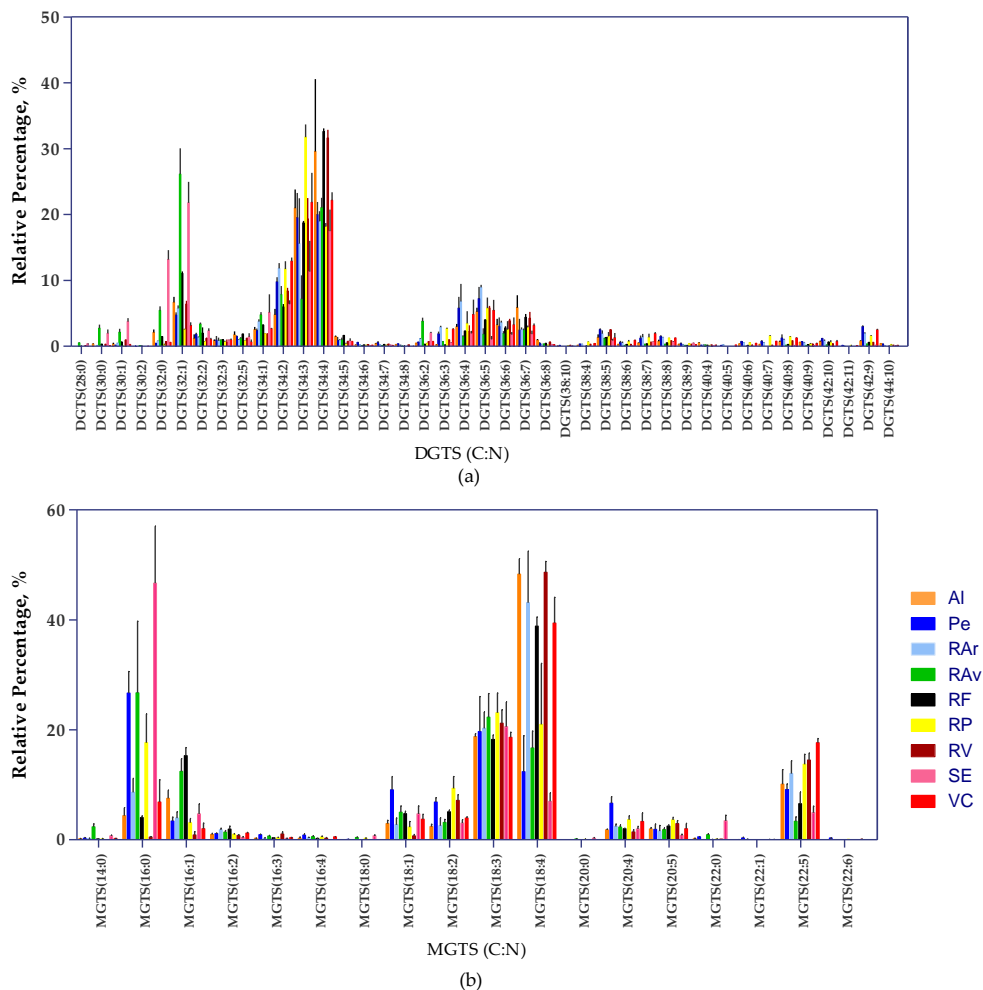


Figure S5. Relative percentage (%) of betaine lipids identified by HILIC-LC-MS of *Ulva* spp. specimens from different geographic origins: a) DGTS, b) MGTS. Numbers in parentheses (C:N) indicates the number of total carbon atoms: total double bonds of fatty acyl chains.

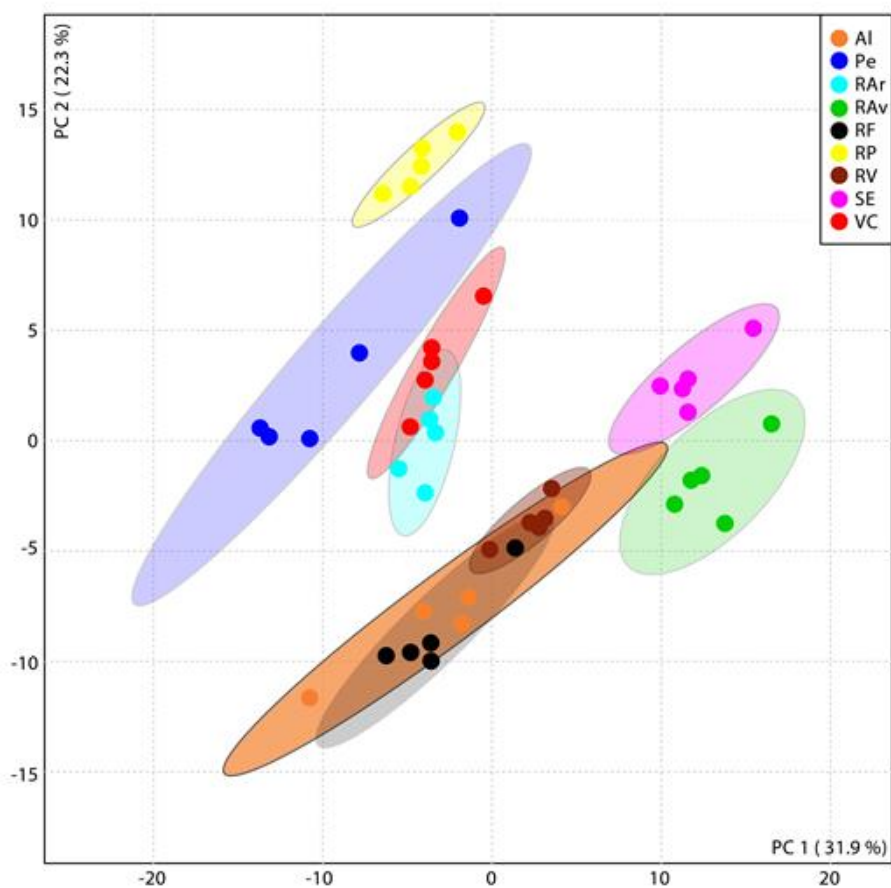


Figure S6. Principal components analysis (PCA) scores plot of two first PCs (PC2 versus PC1) performed on the entire sample of standardized and log-transformed lipid data set acquired by HILIC-LC-MS of the nine geographic origins: Albufeira (Al), Peniche (Pe), Ria Arousa (RA), Ria de Aveiro (RAv), Ria Formosa (RF), Ria Pontevedra (RP), Ria de Vigo (RV), Sado Estuary (SE), and Viana do Castelo (VC).

Table S4. One-way ANOVA (ANalysis Of VAriance) glog transformed and autoscaled HILIC-MS data, followed by post-hoc Tukey's honestly significant difference multiple comparison test and *p*-values correction for multiple testing using Benjamini–Hochberg false discovery rate (FDR, *q* values) *Ulva* spp. was collected from the nine geographic origins along the Atlantic coast: Albufeira (Al), Ria de Aveiro (RAv), Peniche (Pe), Ria Arousa (RAr), Ria Formosa (RF), Ria de Pontevedra (RP), Ria de Vigo (RV), Sado Estuary (SE), and Viana do Castelo (VC).

Lipid species	FDR	Tukey's HSD
DGTS (28:0)	6.16E-29	RAv-Al; Pe-Al; RF-Al; RP-Al; SE-Al; Pe-RAv; RAr-RAv; RP-RAv; VC-RAv; RAr-Pe; RF-Pe; RV-Pe; SE-Pe; VC-Pe; RP-RAr; SE-RAr; VC-RAr; RP-RF; VC-RF; RV-RP; SE-RP; VC-RP; VC-RV; VC-SE
PC (40:10)	8.90E-26	RAv-Al; Pe-Al; RAr-Al; RF-Al; RP-Al; RV-Al; SE-Al; VC-Al; Pe-RAv; RAr-RAv; RF-RAv; RV-RAv; SE-RAv; VC-RAv; RP-Pe; SE-Pe; VC-Pe; RP-RAr; SE-RAr; VC-RAr; RP-RF; SE-RF; VC-RF; RV-RP; SE-RP; VC-RP; SE-RV; VC-RV
SQDG (28:0)	3.34E-25	Pe-Al; RF-Al; RP-Al; RV-Al; SE-Al; Pe-RAv; RAr-RAv; RP-RAv; RV-RAv; SE-RAv; RAr-Pe; RF-Pe; RV-Pe; VC-Pe; RF-RAr; RP-RAr; SE-RAr; RP-RF; RV-RF; SE-RF; RV-RP; VC-RP; SE-RV; VC-RV; VC-SE
DGDG (36:3)	1.49E-24	RAv-Al; Pe-Al; RAr-Al; RF-Al; RP-Al; RV-Al; SE-Al; VC-Al; Pe-RAv; RAr-RAv; RP-RAv; RV-RAv; VC-RAv; RF-Pe; RP-Pe; RV-Pe; SE-Pe; RF-RAr; RV-RAr; SE-RAr; RP-RF; RV-RF; VC-RF; RV-RP; SE-RV; VC-RV; VC-SE
DGTS (40:5)	4.15E-24	RAv-Al; Pe-Al; RAr-Al; RP-Al; SE-Al; VC-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; RV-RAv; SE-RAv; VC-RAv; RF-Pe; RP-Pe; RV-Pe; SE-Pe; RF-RAr; RP-RAr; RV-RAr; SE-RAr; RP-RF; SE-RF; VC-RF; RV-RP; SE-RP; VC-RP; SE-RV; VC-RV; VC-SE
DGTS (40:7)	6.55E-23	RAv-Al; Pe-Al; RF-Al; RP-Al; SE-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; RV-RAv; SE-RAv; VC-RAv; RF-Pe; RV-Pe; SE-Pe; RF-RAr; RP-RAr; RV-RAr; SE-RAr; RP-RF; RV-RF; SE-RF; VC-RF; RV-RP; SE-RP; SE-RV; VC-RV; VC-SE
LPE (22:5)	6.55E-23	RAv-Al; Pe-Al; RAr-Al; SE-Al; VC-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; RV-RAv; VC-RAv; RF-Pe; RV-Pe; SE-Pe; RV-RAr; SE-RAr; SE-RF; VC-RF; RV-RP; SE-RP; SE-RV; VC-RV; VC-SE
PE (40:9)	6.84E-23	RAv-Al; RF-Al; RP-Al; RV-Al; SE-Al; Pe-RAv; RAr-RAv; RF-RAv; RV-RAv; VC-RAv; RP-Pe; RV-Pe; SE-Pe; RP-RAr; RV-RAr; SE-RAr; RP-RF; SE-RF; RV-RP; VC-RP; SE-RV; VC-SE
DGTS (42:11)	1.42E-21	RAv-Al; Pe-Al; RAr-Al; RF-Al; RP-Al; SE-Al; VC-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; RV-RAv; SE-RAv; VC-RAv; RF-Pe; RV-Pe; SE-Pe; RF-RAr; RV-RAr; SE-RAr; RP-RF; RV-RF; VC-RF; RV-RP; SE-RP; SE-RV; VC-RV; VC-SE
PC (40:7)	1.97E-20	RAv-Al; RP-Al; SE-Al; VC-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; RV-RAv; RP-Pe; SE-Pe; VC-Pe; RP-RAr; RP-RF; SE-RF; VC-RF; RV-RP; SE-RP; VC-RP; SE-RV; VC-RV
PC (30:0)	8.55E-20	RAv-Al; RAr-Al; RF-Al; RP-Al; SE-Al; VC-Al; Pe-RAv; RAr-RAv; RP-RAv; RV-RAv; VC-RAv; RF-Pe; RP-Pe; SE-Pe; VC-Pe; RF-RAr; RP-RAr; SE-RAr; VC-RAr; RP-RF; RV-RF; VC-RF; RV-RP; SE-RP; SE-RV; VC-RV; VC-SE
DGTS (42:9)	3.52E-19	RAv-Al; Pe-Al; RAr-Al; RP-Al; SE-Al; VC-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; RV-RAv; VC-RAv; RF-Pe; RV-Pe; SE-Pe; RF-RAr; RV-RAr; SE-RAr; RP-RF; SE-RF; VC-RF; RV-RP; SE-RP; SE-RV; VC-RV; VC-SE
MGDG (36:9)	6.22E-19	RAv-Al; RF-Al; RP-Al; RV-Al; SE-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; RV-RAv; SE-RAv; VC-RAv; RF-Pe; RP-Pe; RV-Pe; SE-Pe; RF-RAr; RP-RAr; RV-RAr; SE-RAr; RP-RF; RV-RF; SE-RF; VC-RF; RV-RP; SE-RP; VC-RP; VC-RV; VC-SE
SQDG (30:1)	2.43E-18	RF-Al; RP-Al; RV-Al; Pe-RAv; RF-RAv; RP-RAv; RV-RAv; SE-RAv; RAr-Pe; RF-Pe; RP-Pe; VC-Pe; RF-RAr; RP-RAr; RV-RAr; SE-RAr; RP-RF; RV-RF; SE-RF; VC-RF; RV-RP; SE-RP; VC-RP; VC-RV; VC-SE
MGDG (32:8)	2.84E-18	RAv-Al; Pe-Al; RF-Al; RP-Al; RV-Al; SE-Al; VC-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; RV-RAv; SE-RAv; RAr-Pe; RF-Pe; RV-Pe; SE-Pe; VC-Pe; RF-RAr; RV-RAr; SE-RAr; VC-RAr; RP-RF; RV-RP; SE-RP; VC-RP
MGDG (34:7)	4.69E-18	RAv-Al; Pe-Al; RAr-Al; RP-Al; VC-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; RV-RAv; SE-RAv; VC-RAv; RAr-Pe; RF-Pe; RV-Pe; SE-Pe; VC-Pe; RF-RAr; RP-RAr; RV-RAr; SE-RAr; VC-RAr; RP-RF; VC-RF; RV-RP; SE-RP; VC-RV; VC-SE
MGTS (22:0)	5.16E-18	Pe-Al; RAr-Al; RF-Al; RP-Al; RV-Al; VC-Al; RAr-RAv; RF-RAv; RP-RAv; SE-RAv; VC-

		RAv; RAr-Pe; SE-Pe; VC-Pe; RF-RAR; RP-RAR; RV-RAR; SE-RAR; SE-RF; VC-RF; SE-RP; VC-RP; SE-RV; VC-RV; VC-SE
DGTS (40:6)	5.16E-18	RAv-Al; SE-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; RV-RAv; VC-RAv; RF-Pe; RV-Pe; SE-Pe; RV-RAR; SE-RAR; RP-RF; SE-RF; RV-RP; SE-RP; SE-RV; VC-RV; VC-SE
MGTS (18:0)	6.95E-18	Pe-Al; RAr-Al; RP-Al; RV-Al; SE-Al; VC-Al; Pe-RAv; RAr-RAv; RF-RAv; RV-RAv; VC-RAv; RF-Pe; RP-Pe; SE-Pe; RF-RAR; RP-RAR; SE-RAR; RP-RF; RV-RF; SE-RF; VC-RF; RV-RP; VC-RP; SE-RV; VC-SE
DGTS (40:8)	9.68E-18	RAv-Al; Pe-Al; RP-Al; SE-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; RV-RAv; VC-RAv; RF-Pe; RV-Pe; SE-Pe; RF-RAR; SE-RAR; RP-RF; SE-RF; VC-RF; RV-RP; SE-RP; SE-RV; VC-RV; VC-SE
DGTS (44:10)	1.56E-17	RAv-Al; RF-Al; RV-Al; SE-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; RV-RAv; SE-RAv; VC-RAv; RAr-Pe; RF-Pe; RV-Pe; SE-Pe; VC-Pe; RP-RAR; SE-RAR; RP-RF; SE-RF; RV-RP; SE-RP; SE-RV; VC-SE
PC (38:8)	3.13E-17	RAv-Al; RAr-Al; RP-Al; SE-Al; VC-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; RV-RAv; SE-RAv; RP-Pe; SE-Pe; VC-Pe; RP-RAR; RP-RF; SE-RF; VC-RF; RV-RP; SE-RP; VC-RP; SE-RV; VC-RV
LPG (16:1)	3.77E-17	Pe-Al; SE-Al; VC-Al; Pe-RAv; SE-RAv; VC-RAv; RF-Pe; RP-Pe; SE-Pe; VC-Pe; SE-RAR; VC-RAR; SE-RF; VC-RF; SE-RP; VC-RP; SE-RV; VC-RV
MGDG (32:0)	4.14E-17	RAv-Al; Pe-Al; RAr-Al; RP-Al; RV-Al; SE-Al; VC-Al; Pe-RAv; RF-RAv; RP-RAv; RV-RAv; SE-RAv; VC-RAv; RAr-Pe; RF-Pe; RV-Pe; VC-Pe; RF-RAR; RP-RAR; RV-RAR; SE-RAR; VC-RAR; RP-RF; RV-RF; SE-RF; VC-RF; RV-RP; VC-RP; SE-RV; VC-SE
MGDG (32:3)	1.16E-16	RAv-Al; Pe-Al; SE-Al; VC-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; SE-RAv; RAr-Pe; RP-Pe; RV-Pe; SE-Pe; VC-Pe; SE-RAR; VC-RAR; RP-RF; RV-RF; SE-RF; VC-RF; SE-RP; SE-RV; VC-SE
DGDG (34:7)	1.50E-16	RAv-Al; Pe-Al; RAr-Al; RP-Al; RV-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; SE-RAv; VC-RAv; RAr-Pe; RF-Pe; RP-Pe; RV-Pe; SE-Pe; VC-Pe; RF-RAR; RV-RAR; SE-RAR; RP-RF; RV-RP; SE-RP; VC-RP; VC-RV; VC-SE
DGDG (34:6)	1.75E-16	RAv-Al; Pe-Al; RAr-Al; RP-Al; VC-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; RV-RAv; VC-RAv; RAr-Pe; RF-Pe; RV-Pe; SE-Pe; RF-RAR; SE-RAR; RP-RF; VC-RF; RV-RP; SE-RP; SE-RV; VC-RV; VC-SE
PC (34:4)	5.27E-16	RP-Al; VC-Al; RP-RAv; RP-Pe; RP-RAR; RP-RF; VC-RF; RV-RP; SE-RP; VC-RP; VC-RV
DGTS (42:10)	1.16E-15	RAv-Al; SE-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; RV-RAv; SE-RAv; VC-RAv; RV-Pe; SE-Pe; RV-RAR; SE-RAR; SE-RF; RV-RP; SE-RP; SE-RV; VC-RV; VC-SE
DGTS (36:3)	1.59E-15	Pe-Al; RAr-Al; RP-Al; VC-Al; Pe-RAv; RAr-RAv; RP-RAv; RV-RAv; VC-RAv; RF-Pe; RV-Pe; SE-Pe; RF-RAR; RV-RAR; SE-RAR; RP-RF; VC-RF; RV-RP; SE-RP; SE-RV; VC-RV; VC-SE
DGTS (38:8)	1.63E-15	RAv-Al; Pe-Al; RP-Al; SE-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; RV-RAv; SE-RAv; VC-RAv; RF-Pe; RV-Pe; SE-Pe; RF-RAR; RV-RAR; SE-RAR; RP-RF; SE-RF; VC-RF; RV-RP; SE-RP; SE-RV; VC-RV; VC-SE
MGDG (34:6)	1.74E-15	Pe-Al; RP-Al; SE-Al; VC-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; RV-RAv; VC-RAv; RAr-Pe; RF-Pe; RP-Pe; RV-Pe; SE-Pe; VC-Pe; RP-RAR; SE-RAR; VC-RAR; RP-RF; SE-RF; VC-RF; RV-RP; SE-RP; SE-RV; VC-RV; VC-SE
PC (34:3)	5.10E-15	RAv-Al; RAr-Al; RP-Al; SE-Al; VC-Al; Pe-RAv; RF-RAv; RP-RAv; RV-RAv; RP-Pe; VC-Pe; RP-RAR; RP-RF; VC-RF; RV-RP; SE-RP; VC-RP; VC-RV
MGDG (36:8)	6.56E-15	RAv-Al; RAr-Al; RP-Al; SE-Al; VC-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; RV-RAv; SE-RAv; VC-RAv; RF-Pe; RF-RAR; RP-RF; RV-RF; SE-RF; VC-RF; RV-RP; SE-RV
DGTS (40:9)	1.26E-14	RAv-Al; SE-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; RV-RAv; VC-RAv; RF-Pe; RV-Pe; SE-Pe; RV-RAR; SE-RAR; SE-RF; RV-RP; SE-RP; SE-RV; VC-SE
MGTS (16:4)	1.34E-14	RAv-Al; SE-Al; VC-Al; SE-RAv; SE-Pe; SE-RAR; VC-RAR; SE-RF; VC-RF; SE-RP; VC-RP; SE-RV; VC-RV; VC-SE
DGTS (36:5)	1.54E-14	RAv-Al; SE-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; RV-RAv; VC-RAv; RV-Pe; SE-Pe; RV-RAR; SE-RAR; SE-RF; SE-RP; SE-RV; VC-SE
DGTS (38:7)	2.39E-14	RAv-Al; Pe-Al; RAr-Al; RP-Al; SE-Al; VC-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; RV-RAv; SE-RAv; VC-RAv; RF-Pe; RV-Pe; SE-Pe; RF-RAR; RV-RAR; SE-RAR; RP-RF; VC-RF; RV-RP; SE-RP; VC-RV; VC-SE
MGTS (14:0)	2.71E-14	Pe-Al; RAr-Al; RP-Al; RV-Al; VC-Al; Pe-RAv; RAr-RAv; RP-RAv; RV-RAv; SE-RAv; VC-RAv; RF-Pe; SE-Pe; RV-RAR; VC-RAR; RP-RF; RV-RF; VC-RF; RV-RP; SE-RP; VC-RP; SE-RV; VC-SE
MGMG (16:3)	3.88E-14	RF-Al; RV-Al; RF-RAv; RV-RAv; SE-RAv; RAr-Pe; RV-Pe; SE-Pe; RF-RAR; RV-RAR; VC-

		RAr; RP-RF; RV-RF; SE-RF; VC-RF; RV-RP; SE-RP; SE-RV; VC-RV; VC-SE
DGDG (36:6)	4.29E-14	Pe-Al; RAr-Al; RF-Al; RP-Al; VC-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; SE-RAv; VC-RAv; RV-Pe; SE-Pe; RV-RAr; SE-RAr; RV-RF; SE-RF; RV-RP; SE-RP; VC-RV; VC-SE
PC (40:8)	4.29E-14	RAv-Al; RAr-Al; RF-Al; RP-Al; SE-Al; VC-Al; Pe-RAv; RAr-RAv; RF-RAv; RV-RAv; RP-Pe; SE-Pe; RP-RAr; RV-RAr; SE-RAr; RP-RF; RV-RF; SE-RF; RV-RP; VC-RP; SE-RV; VC-RV; VC-SE
DGTS (38:4)	4.70E-14	RAv-Al; RP-Al; SE-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; RV-RAv; VC-RAv; RF-Pe; SE-Pe; RF-RAr; SE-RAr; RP-RF; SE-RF; VC-RF; RV-RP; SE-RP; SE-RV; VC-SE
PC (38:7)	6.25E-14	RAv-Al; RP-Al; SE-Al; VC-Al; Pe-RAv; RAr-RAv; RF-RAv; RV-RAv; VC-RAv; RP-Pe; SE-Pe; VC-Pe; RP-RAr; SE-RAr; RP-RF; SE-RF; VC-RF; RV-RP; SE-RP; VC-RP; SE-RV; VC-RV
DGTS (30:0)	7.42E-14	Pe-Al; RP-Al; Pe-RAv; RAr-RAv; RP-RAv; VC-RAv; RAr-Pe; RF-Pe; RP-Pe; RV-Pe; SE-Pe; VC-Pe; RP-RAr; RP-RF; RV-RP; SE-RP; VC-RP; VC-SE
MGTS (16:1)	7.42E-14	RAv-Al; Pe-Al; RAr-Al; RP-Al; RV-Al; SE-Al; VC-Al; Pe-RAv; RF-RAv; RV-RAv; VC-RAv; RF-Pe; RF-RAr; VC-RAr; RP-RF; RV-RF; SE-RF; VC-RF; VC-RP; VC-RV; VC-SE
DGTS (34:8)	7.42E-14	RAv-Al; RF-Al; SE-Al; VC-Al; Pe-RAv; RAr-RAv; RP-RAv; RV-RAv; RF-Pe; RP-Pe; RV-Pe; SE-Pe; VC-Pe; RF-RAr; SE-RAr; VC-RAr; SE-RF; VC-RF; SE-RP; VC-RP; SE-RV; VC-RV
DGTS (34:6)	8.43E-14	RAv-Al; Pe-Al; SE-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; RV-RAv; VC-RAv; RAr-Pe; RF-Pe; RP-Pe; RV-Pe; SE-Pe; VC-Pe; SE-RAr; SE-RF; SE-RP; SE-RV; VC-SE
PE (32:0)	1.02E-13	Pe-Al; RAr-Al; RP-Al; SE-Al; VC-Al; Pe-RAv; RAr-RAv; RP-RAv; SE-RAv; VC-RAv; RF-Pe; RV-Pe; RF-RAr; RV-RAr; RP-RF; SE-RF; VC-RF; RV-RP; VC-RP; SE-RV; VC-RV
MGDG (32:1)	1.02E-13	RAv-Al; Pe-Al; RAr-Al; RF-Al; RP-Al; RV-Al; SE-Al; VC-Al; RAr-RAv; RF-RAv; RV-RAv; RF-Pe; RF-RAr; RP-RAr; RP-RF; RV-RF; SE-RF; VC-RF; RV-RP
PE (34:3)	2.30E-13	RAv-Al; RF-Al; RP-Al; RV-Al; SE-Al; RP-RAv; RV-RAv; SE-RAv; RP-Pe; RV-Pe; SE-Pe; RP-RAr; RV-RAr; SE-RAr; RV-RF; SE-RF; RV-RP; VC-RP; SE-RV; VC-RV; VC-SE
MGDG (34:2)	2.36E-13	RAv-Al; RP-Al; SE-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; RV-RAv; SE-RAv; VC-RAv; RV-Pe; SE-Pe; RP-RAr; SE-RAr; RP-RF; SE-RF; RV-RP; SE-RP; VC-RP; SE-RV; VC-SE
DGTS (38:6)	2.81E-13	RAv-Al; RP-Al; SE-Al; VC-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; RV-RAv; VC-RAv; RV-Pe; SE-Pe; RV-RAr; SE-RAr; RP-RF; SE-RF; VC-RF; RV-RP; SE-RP; SE-RV; VC-RV; VC-SE
DGDG (32:3)	4.32E-13	RAv-Al; SE-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; RV-RAv; VC-RAv; RV-Pe; SE-Pe; RV-RAr; SE-RAr; RV-RF; SE-RF; SE-RP; SE-RV; VC-SE
DGTS (38:10)	4.37E-13	RAv-Al; Pe-Al; RP-Al; SE-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; RV-RAv; SE-RAv; VC-RAv; RAr-Pe; RF-Pe; SE-Pe; VC-Pe; RP-RAr; RP-RF; RV-RF; SE-RP; SE-RV; VC-SE
MGTS (16:2)	6.01E-13	RAv-Al; Pe-Al; RP-Al; SE-Al; VC-Al; RAr-RAv; RF-RAv; SE-RAv; RAr-Pe; RF-Pe; RV-Pe; RF-RAr; SE-RAr; VC-RAr; RP-RF; RV-RF; SE-RF; VC-RF; SE-RP; VC-RP; SE-RV; VC-RV
MGDG (34:1)	6.01E-13	RAv-Al; Pe-Al; RAr-Al; RP-Al; RV-Al; SE-Al; VC-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; RV-RAv; SE-RAv; VC-RAv; RF-Pe; SE-Pe; RF-RAr; RP-RF; RV-RF; SE-RF; VC-RF; SE-RP; SE-RV
DGDG (36:7)	6.26E-13	RAv-Al; Pe-Al; RF-Al; RV-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; SE-RAv; VC-RAv; RAr-Pe; RP-Pe; RV-Pe; SE-Pe; RF-RAr; RV-RAr; RP-RF; RV-RF; SE-RF; VC-RF; RV-RP; VC-RV; VC-SE
MGDG (38:9)	8.36E-13	RAv-Al; Pe-Al; RAr-Al; RF-Al; RP-Al; SE-Al; VC-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; RV-RAv; VC-RAv; RF-Pe; RV-Pe; SE-Pe; RV-RAr; SE-RAr; RP-RF; SE-RF; RV-RP; SE-RP; SE-RV; VC-SE
MGMG (16:1)	8.36E-13	Pe-Al; RP-Al; RV-Al; Pe-RAv; RP-RAv; RV-RAv; RAr-Pe; RF-Pe; RV-Pe; SE-Pe; VC-Pe; RF-RAr; RP-RAr; RV-RAr; RP-RF; SE-RF; VC-RF; RV-RP; SE-RP; VC-RP; SE-RV; VC-RV
PC (38:5)	1.69E-12	RP-Al; RP-RAv; RP-Pe; RP-RAr; RP-RF; RV-RP; SE-RP; VC-RP
MGMG (16:2)	1.80E-12	RAr-Al; RP-Al; RV-Al; SE-Al; RAr-RAv; RP-RAv; RV-RAv; SE-RAv; RF-Pe; RP-Pe; RV-Pe; SE-Pe; RF-RAr; RV-RAr; RP-RF; SE-RF; VC-RF; RV-RP; VC-RP; SE-RV; VC-RV; VC-SE
DGTS (38:9)	1.92E-12	RAv-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; RV-RAv; SE-RAv; VC-RAv; RF-Pe; RV-Pe; SE-Pe; SE-RAr; RP-RF; RV-RP; SE-RP
PG (36:5)	3.30E-12	RAv-Al; Pe-Al; RP-Al; SE-Al; VC-Al; RF-RAv; RP-RAv; SE-RAv; RF-Pe; RP-Pe; RF-RAr; RP-RAr; SE-RAr; VC-RAr; RP-RF; RV-RF; SE-RF; VC-RF; RV-RP; VC-RP; SE-RV
MGTS (18:4)	3.44E-12	RAv-Al; Pe-Al; RAr-Al; RP-Al; SE-Al; VC-Al; RAr-RAv; RF-RAv; RV-RAv; RAr-Pe; RF-Pe; RV-Pe; SE-RAr; VC-RAr; RP-RF; SE-RF; VC-RF; RV-RP; SE-RV; VC-RV
PE (40:8)	4.21E-12	RAv-Al; RP-Al; SE-Al; Pe-RAv; RAr-RAv; RF-RAv; RV-RAv; VC-RAv; RP-Pe; SE-Pe; RP-RAr; SE-RAr; RP-RF; SE-RF; RV-RP; VC-RP; SE-RV; VC-SE

MGTS (22:5)	4.66E-12	RAv-Al; Pe-Al; RAr-Al; RP-Al; SE-Al; VC-Al; RAr-RAv; RF-RAv; RP-RAv; RV-RAv; RAr-Pe; RF-Pe; RP-Pe; RV-Pe; SE-RAr; VC-RAr; SE-RF; VC-RF; RV-RP; SE-RP; SE-RV; VC-RV
MGTS (16:3)	4.97E-12	RAv-Al; Pe-Al; RAr-Al; RP-Al; SE-Al; VC-Al; RF-RAv; RV-RAv; VC-RAv; RF-Pe; RV-Pe; VC-Pe; RF-RAr; RV-RAr; RP-RF; SE-RF; VC-RF; RV-RP; VC-RP; SE-RV; VC-RV
PG (32:0)	5.71E-12	Pe-Al; RAr-Al; RP-Al; RV-Al; SE-Al; VC-Al; Pe-RAv; RAr-RAv; RP-RAv; RV-RAv; SE-RAv; VC-RAv; RF-Pe; RP-Pe; RF-RAr; RP-RAr; RP-RF; RV-RF; SE-RF; VC-RF; RV-RP; SE-RP; VC-RP
MGDG (34:4)	5.71E-12	Pe-Al; Pe-RAv; RF-RAv; VC-RAv; RAr-Pe; RF-Pe; RP-Pe; RV-Pe; SE-Pe; VC-Pe; RV-RF; SE-RF; VC-RV; VC-SE
DGTS (34:2)	5.80E-12	RAv-Al; Pe-Al; RAr-Al; RP-Al; SE-Al; VC-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; RV-RAv; VC-RAv; RF-Pe; RV-Pe; SE-Pe; RV-RAr; SE-RAr; RP-RF; SE-RF; RV-RP; SE-RP; SE-RV; VC-RV; VC-SE
MGDG (32:6)	8.07E-12	Pe-Al; RP-Al; SE-Al; VC-Al; Pe-RAv; RP-RAv; SE-RAv; RAr-Pe; RF-Pe; RP-Pe; RV-Pe; SE-Pe; VC-Pe; RP-RAr; SE-RAr; RP-RF; SE-RF; VC-RF; RV-RP
MGDG (32:2)	1.18E-11	RF-Al; RP-Al; SE-Al; RF-RAv; SE-RAv; VC-RAv; RF-Pe; RP-Pe; SE-Pe; RF-RAr; RP-RAr; SE-RAr; RP-RF; RV-RF; SE-RF; VC-RF; RV-RP; VC-RP; SE-RV; VC-SE
PE (36:5)	1.18E-11	RP-Al; SE-Al; RP-RArr; RV-RArr; SE-RArr; RP-Pe; RV-Pe; SE-Pe; RP-RArr; RV-RArr; SE-RArr; RP-RF; RV-RF; SE-RF; RV-RP; VC-RP; SE-RV; VC-RV; VC-SE
PC (32:2)	1.56E-11	Pe-Al; RP-Al; Pe-RAv; RP-RAv; RF-Pe; RP-Pe; RV-Pe; SE-Pe; RP-RAr; RP-RF; RV-RP; SE-RP; VC-RP
SQDG (32:3)	1.82E-11	RAv-Al; RV-Al; SE-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; VC-RAv; RF-Pe; RP-Pe; RV-Pe; SE-Pe; RV-RAr; SE-RAr; RV-RF; SE-RF; SE-RP; VC-RV; VC-SE
DGTS (34:7)	2.05E-11	RAv-Al; SE-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; RV-RAv; VC-RAv; RV-Pe; SE-Pe; VC-Pe; SE-RAr; SE-RF; SE-RP; SE-RV; VC-SE
DGTS (36:7)	2.17E-11	RAv-Al; SE-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; RV-RAv; VC-RAv; SE-Pe; SE-RAr; SE-RF; SE-RP; SE-RV; VC-SE
DGTS (40:4)	2.27E-11	RAv-Al; RV-Al; SE-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; RV-RAv; VC-RAv; SE-Pe; SE-RAr; SE-RF; SE-RP; SE-RV; VC-SE
PC (34:2)	2.27E-11	RP-Al; RP-RAv; RP-Pe; VC-Pe; RP-RAr; RP-RF; RV-RP; SE-RP; VC-RP
LPE (20:4)	2.49E-11	RAv-Al; RV-Al; SE-Al; RF-RAv; RV-RAv; SE-RAv; RV-Pe; SE-Pe; RV-RAr; SE-RAr; RV-RF; SE-RF; RV-RP; SE-RP; SE-RV; VC-RV; VC-SE
DGDG (32:4)	3.87E-11	RAv-Al; RV-Al; VC-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; RV-RAv; SE-RAv; RV-Pe; VC-Pe; RV-RAr; VC-RAr; RP-RF; RV-RF; VC-RF; VC-SE
PC (36:6)	3.89E-11	RAv-Al; RP-Al; VC-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; RV-RAv; SE-RAv; RP-Pe; VC-Pe; RP-RAr; VC-RAr; RP-RF; VC-RF; RV-RP; SE-RP; VC-RP; VC-RV; VC-SE
MGTS (18:3)	3.89E-11	RAv-Al; Pe-Al; RAr-Al; RP-Al; SE-Al; VC-Al; RF-RAv; RV-RAv; RAr-Pe; RF-Pe; RV-Pe; RF-RAr; VC-RAr; RP-RF; SE-RF; VC-RF; VC-RP; SE-RV; VC-SE
MGMG (18:3)	3.95E-11	Pe-Al; RP-Al; Pe-RAv; RAr-RAv; RP-RAv; RF-Pe; RV-Pe; SE-Pe; VC-Pe; RP-RAr; SE-RAr; VC-RAr; RP-RF; RV-RP; SE-RP; VC-RP
PE3 (2:2)	3.98E-11	RP-Al; SE-Al; RP-RAv; RV-RAv; SE-RAv; RP-Pe; RV-Pe; RP-RAr; RV-RAr; RP-RF; RV-RF; RV-RP; SE-RP; VC-RP; SE-RV; VC-RV
MGDG (34:3)	4.43E-11	RAv-Al; RAr-Al; RV-Al; SE-Al; VC-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; VC-RAv; RAr-Pe; RV-Pe; SE-Pe; VC-Pe; RP-RAr; RV-RF; SE-RF; RV-RP; SE-RP; VC-RP
PE (32:1)	4.59E-11	Pe-Al; RP-Al; SE-Al; Pe-RAv; RP-RAv; SE-RAv; RF-Pe; RP-Pe; RV-Pe; VC-Pe; RP-RAr; RP-RF; SE-RF; RV-RP; SE-RP; VC-RP; SE-RV
DGTS (36:4)	4.65E-11	RAv-Al; Pe-Al; SE-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; RV-RAv; VC-RAv; RF-Pe; RV-Pe; SE-Pe; RV-RAr; SE-RAr; SE-RF; RV-RP; SE-RP; VC-RV; VC-SE
MGDG (34:8)	5.50E-11	RAv-Al; Pe-Al; RV-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; SE-RAv; VC-RAv; RAr-Pe; RF-Pe; RV-Pe; RP-RAr; VC-RAr; RV-RF; RV-RP; SE-RV; VC-RV
MGMG (18:1)	6.91E-11	Pe-Al; RP-Al; RV-Al; VC-Al; Pe-RAv; RV-RAv; VC-RAv; RF-Pe; SE-Pe; RV-RAr; VC-RAr; RP-RF; RV-RF; VC-RF; SE-RP; VC-RP; SE-RV; VC-SE
MGDG (36:7)	8.68E-11	RAv-Al; SE-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; RV-RAv; VC-RAv; SE-Pe; SE-RAr; RP-RF; SE-RF; SE-RV; VC-SE
PC (38:6)	1.09E-10	RAv-Al; RP-Al; SE-Al; RAr-RAv; RF-RAv; RP-RAv; RP-Pe; RP-RAr; RP-RF; RV-RP; SE-RP; VC-RP
PE (30:1)	1.10E-10	RAv-Al; RV-Al; VC-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; SE-RAv; RP-Pe; RV-Pe; RP-RAr; RV-RAr; RV-RF; VC-RF; RV-RP; SE-RP; VC-RP; SE-RV; VC-RV
DGMG (16:0)	1.20E-10	Pe-Al; RAr-Al; RP-Al; VC-Al; Pe-RAv; RF-RAv; VC-RAv; RAr-Pe; RF-Pe; RP-Pe; RV-Pe; SE-

		Pe; RF-RAR; RP-RF; SE-RF; VC-RF; VC-RV; VC-SE
DGDG (32:2)	1.23E-10	RF-Al; Pe-RAv; RAR-RAv; RF-RAv; RV-RAv; VC-RAv; RF-Pe; RF-RAR; SE-RAR; RP-RF; RV-RF; SE-RF; VC-RF; VC-SE
PE (36:2)	1.26E-10	Pe-Al; RP-Al; SE-Al; Pe-RAv; RP-RAv; SE-RAv; RAR-Pe; RV-Pe; VC-Pe; RP-RAR; SE-RAR; RP-RF; RV-RF; RV-RP; SE-RP; VC-RP; SE-RV; VC-SE
DGTS (30:2)	1.38E-10	Pe-Al; RF-Al; RV-Al; Pe-RAv; RF-RAv; RV-RAv; RAR-Pe; RP-Pe; RV-Pe; SE-Pe; VC-Pe; RF-RAR; RV-RAR; RP-RF; RV-RF; SE-RF; VC-RF; RV-RP; SE-RV; VC-RV
PE (36:4)	1.40E-10	RAR-Al; RP-Al; SE-Al; RP-RAv; RV-RAv; RP-Pe; RV-Pe; SE-Pe; RP-RAR; RV-RAR; RP-RF; RV-RF; SE-RF; RV-RP; VC-RP; SE-RV; VC-RV; VC-SE
DGTS (34:3)	1.48E-10	RAv-Al; SE-Al; Pe-RAv; RAR-RAv; RF-RAv; RP-RAv; RV-RAv; VC-RAv; SE-Pe; SE-RAR; SE-RF; RV-RP; SE-RP; SE-RV; VC-SE
MGTS (20:5)	1.48E-10	RAv-Al; Pe-Al; RAR-Al; SE-Al; VC-Al; RF-RAv; RV-RAv; RF-Pe; RP-Pe; RV-Pe; RF-RAR; RV-RAR; VC-RAR; SE-RF; VC-RF; SE-RP; VC-RP; SE-RV; VC-RV
PC (38:4)	2.06E-10	RP-Al; RP-RAv; RP-Pe; VC-Pe; RP-RAR; RP-RF; VC-RF; RV-RP; SE-RP; VC-RP
LPC (22:6)	2.60E-10	RAv-Al; RF-Al; RP-Al; Pe-RAv; RP-RAv; RV-RAv; VC-RAv; RF-Pe; RP-Pe; RP-RAR; RV-RAR; VC-RAR; RP-RF; RV-RF; VC-RF; SE-RP; SE-RV; VC-SE
PI (34:2)	4.07E-10	Pe-Al; RAR-Al; VC-Al; Pe-RAv; RAR-RAv; VC-RAv; RF-Pe; RP-Pe; SE-Pe; RF-RAR; RP-RAR; RV-RAR; SE-RAR; SE-RF; VC-RF; VC-RP; SE-RV; VC-RV; VC-SE
MGTS (18:2)	4.07E-10	RAv-Al; Pe-Al; RAR-Al; SE-Al; VC-Al; RF-RAv; RP-RAv; RV-RAv; RF-Pe; RV-Pe; RF-RAR; RP-RAR; RV-RAR; SE-RF; VC-RF; SE-RP; VC-RP; SE-RV; VC-RV
PE (34:1)	4.08E-10	Pe-Al; RP-Al; SE-Al; Pe-RAv; RP-RAv; SE-RAv; RF-Pe; RV-Pe; VC-Pe; RP-RAR; RV-RAR; SE-RAR; RP-RF; SE-RF; RV-RP; VC-RP; SE-RV; VC-SE
LPC (18:1)	4.38E-10	RP-Al; RV-Al; RP-RAv; RV-RAv; VC-RAv; RP-Pe; SE-Pe; RP-RAR; RV-RAR; RP-RF; RV-RF; SE-RP; VC-RP; SE-RV; VC-SE
PC (34:1)	4.90E-10	RP-Al; RP-RAv; RP-Pe; RP-RAR; RP-RF; RV-RP; SE-RP; VC-RP
PC (32:0)	4.96E-10	RP-Al; VC-Al; RP-RAv; RV-RAv; VC-RAv; RP-Pe; RF-RAR; RP-RAR; SE-RAR; RP-RF; RV-RF; VC-RF; RV-RP; SE-RP; VC-RP; SE-RV; VC-SE
DGDG (32:0)	5.84E-10	RAv-Al; Pe-Al; RAR-Al; RP-Al; RV-Al; VC-Al; RF-RAv; RF-Pe; RF-RAR; RP-RF; RV-RF; SE-RF; VC-RF; VC-RV; VC-SE
MGTS (16:0)	7.83E-10	RV-Al; VC-Al; RV-RAv; VC-RAv; RV-Pe; VC-Pe; RV-RAR; VC-RAR; RV-RF; VC-RF; RV-RP; VC-RP; SE-RV; VC-SE
MGDG (36:4)	8.19E-10	Pe-Al; Pe-RAv; RAR-RAv; RP-RAv; VC-RAv; RAR-Pe; RF-Pe; RP-Pe; RV-Pe; SE-Pe; RF-RAR; RV-RAR; RP-RF; VC-RF; RV-RP; VC-RV; VC-SE
MGMG (16:0)	8.37E-10	RAv-Al; Pe-Al; RP-Al; RV-Al; SE-Al; VC-Al; RF-RAv; RF-Pe; RF-RAR; VC-RAR; RP-RF; RV-RF; SE-RF; VC-RF; VC-RP
PC (36:5)	9.49E-10	RAv-Al; Pe-Al; RAR-Al; RP-Al; RV-Al; SE-Al; VC-Al; RF-RAv; RP-RAv; RP-Pe; RP-RAR; RP-RF; RV-RP; SE-RP; VC-RP
MGTS (22:6)	9.79E-10	RAv-Al; SE-Al; VC-Al; Pe-RAv; RAR-RAv; RF-RAv; RP-RAv; RV-RAv; SE-Pe; VC-Pe; SE-RF; VC-RF; SE-RP; VC-RP; SE-RV
PC (36:3)	9.94E-10	RAv-Al; RP-Al; VC-Al; Pe-RAv; RAR-RAv; RV-RAv; VC-RAv; RP-Pe; VC-Pe; RF-RAR; RP-RAR; SE-RAR; RV-RF; VC-RF; RV-RP; SE-RP; VC-RP; VC-SE
PG (34:2)	1.61E-09	Pe-Al; RAR-Al; RP-Al; RV-Al; SE-Al; VC-Al; RP-RAv; SE-RAv; RF-Pe; RP-Pe; SE-Pe; RF-RAR; RP-RAR; SE-RAR; RP-RF; RV-RF; SE-RF; VC-RF; RV-RP; VC-RP; SE-RV; VC-SE
DGTS (36:8)	1.90E-09	RAv-Al; SE-Al; Pe-RAv; RAR-RAv; RF-RAv; RP-RAv; RV-RAv; VC-RAv; SE-Pe; SE-RAR; SE-RF; SE-RP; SE-RV; VC-SE
PE (36:3)	2.00E-09	RAv-Al; RF-Al; RP-Al; SE-Al; RAR-RAv; RV-RAv; VC-RAv; RV-Pe; VC-Pe; RF-RAR; RP-RAR; SE-RAR; RV-RF; VC-RF; RV-RP; VC-RP; SE-RV; VC-SE
MGDG (32:4)	2.90E-09	RV-Al; VC-Al; Pe-RAv; RF-RAv; RP-Pe; RV-Pe; SE-Pe; VC-Pe; RF-RAR; RV-RF; SE-RF; VC-RF; RV-RP; VC-RP
MGDG (32:5)	3.24E-09	RV-Al; Pe-RAv; RF-RAv; RV-RAv; RAR-Pe; RP-Pe; RV-Pe; SE-Pe; VC-Pe; RF-RAR; RP-RF; RV-RF; SE-RF; VC-RF; SE-RV
MGMG (16:4)	3.87E-09	RAv-Al; Pe-Al; RF-Al; RP-Al; RV-Al; VC-Al; RAR-RAv; RV-RAv; SE-RAv; RAR-Pe; RV-Pe; SE-Pe; RF-RAR; RP-RAR; RV-RAR; VC-RAR; RV-RF; SE-RF; RV-RP; SE-RP; SE-RV; VC-SE
PC (36:2)	4.55E-09	RP-Al; RP-RAv; RAR-Pe; RP-Pe; VC-Pe; RF-RAR; RP-RAR; RP-RF; VC-RF; RV-RP; SE-RP; VC-RP
PE (34:2)	5.58E-09	RP-Al; RV-Al; RP-RAv; RV-RAv; RP-Pe; RV-Pe; RP-RAR; RV-RAR; RP-RF; RV-RF; RV-RP; VC-RP; SE-RV; VC-RV; VC-SE

SQDG (32:4)	5.92E-09	RV-Al; SE-Al; RV-RAv; SE-RAv; RP-Pe; RV-Pe; SE-Pe; VC-Pe; RV-RAr; SE-RAr; RP-RF; RV-RF; SE-RF; VC-RF; RV-RP; SE-RP
DGDG (32:1)	7.13E-09	RF-Al; RF-RAv; RF-Pe; RF-RAr; RP-RF; RV-RF; SE-RF; VC-RF; SE-RP
DGTS (38:5)	9.60E-09	RAv-Al; Pe-Al; SE-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; RV-RAv; VC-RAv; SE-Pe; VC-Pe; SE-RAr; SE-RF; SE-RP; SE-RV; VC-SE
DGDG (36:2)	1.00E-08	Pe-Al; RAr-Al; SE-Al; VC-Al; Pe-RAv; RAr-RAv; RF-Pe; RP-Pe; RV-Pe; RP-RAr; RV-RAr; RV-RF; VC-RP; SE-RV; VC-RV
DGDG (34:5)	1.03E-08	Pe-Al; RAr-Al; RP-Al; VC-Al; Pe-RAv; RAr-RAv; RP-RAv; VC-RAv; RF-Pe; RP-Pe; RV-Pe; SE-Pe; SE-RAr; VC-RF; VC-SE
MGTS (18:1)	1.45E-08	RAv-Al; Pe-Al; RAr-Al; RP-Al; RV-Al; SE-Al; VC-Al; RF-RAv; RF-Pe; VC-Pe; RF-RAr; RP-RF; RV-RF; SE-RF; VC-RF; VC-SE
SQDG (30:0)	1.76E-08	RP-Al; RV-Al; SE-Al; RF-RAv; SE-RAv; RF-Pe; SE-Pe; RF-RAr; SE-RAr; RP-RF; RV-RF; SE-RF; VC-RF
SQDG (36:1)	2.22E-08	RV-Al; SE-Al; Pe-RAv; RAr-RAv; RP-RAv; VC-RAv; RV-Pe; SE-Pe; RV-RAr; SE-RAr; SE-RF; RV-RP; SE-RP; VC-RV; VC-SE
PG (34:4)	2.69E-08	RV-Al; SE-Al; Pe-RAv; RV-RAv; SE-RAv; RF-Pe; RP-Pe; RV-Pe; SE-Pe; RV-RAr; SE-RAr; RV-RF; SE-RF; RV-RP; SE-RP; VC-RV; VC-SE
PI (42:11)	2.98E-08	Pe-Al; RP-Al; Pe-RAv; RAr-RAv; RP-RAv; VC-RAv; RF-Pe; RV-Pe; SE-Pe; RV-RAr; RV-RF; RV-RP; SE-RP; VC-RV
DGTS (36:6)	3.88E-08	RAv-Al; SE-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; RV-RAv; VC-RAv; SE-Pe; SE-RAr; SE-RF; SE-RP; SE-RV; VC-SE
MGDG (34:5)	4.97E-08	Pe-Al; Pe-RAv; RF-RAv; VC-RAv; RAr-Pe; RF-Pe; RP-Pe; RV-Pe; SE-Pe; VC-Pe; RF-RAr; VC-RAr
SQMG (16:0)	6.21E-08	SE-Al; VC-Al; Pe-RAv; RAr-RAv; RP-RAv; SE-RAv; VC-RAv; SE-RF; VC-RF; VC-RP; SE-RV; VC-RV
DGTS (34:5)	6.55E-08	RAv-Al; SE-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; VC-RAv; RV-Pe; SE-Pe; SE-RAr; RV-RF; SE-RF; SE-RP; VC-SE
MGTS (20:4)	7.06E-08	RAv-Al; SE-Al; VC-Al; RF-RAv; VC-Pe; VC-RAr; SE-RF; VC-RF; VC-RP; VC-RV
PG (32:1)	7.93E-08	RP-Al; SE-Al; Pe-RAv; RAr-RAv; RP-RAv; RV-RAv; SE-RAv; RF-Pe; RP-Pe; RF-RAr; RP-RF; RV-RF; SE-RF; VC-RF; VC-RP
DGDG (28:0)	8.45E-08	RAv-Al; RF-Al; RP-Al; RF-RAv; RF-Pe; RF-RAr; RP-RF; RV-RF; SE-RF; VC-RF; SE-RP
DGTS (34:4)	8.52E-08	RAv-Al; SE-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; RV-RAv; VC-RAv; SE-Pe; SE-RAr; SE-RF; SE-RP; SE-RV; VC-SE
SQDG (36:3)	8.53E-08	RAv-Al; SE-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; VC-RAv; RV-Pe; SE-Pe; SE-RAr; SE-RF; RV-RP; SE-RP; VC-RV; VC-SE
DGDG (36:4)	1.81E-07	Pe-Al; RAr-Al; RF-Al; RP-Al; SE-Al; VC-Al; Pe-RAv; RAr-RAv; RF-RAv; VC-RAv; RV-Pe; RV-RAr; RV-RF; VC-RV
DGTS (32:0)	1.90E-07	RP-Al; RV-Al; VC-Al; RV-RAv; SE-RAv; SE-Pe; RV-RAr; SE-RAr; RP-RF; RV-RF; SE-RP; SE-RV; VC-SE
PG (34:3)	2.03E-07	RV-Al; SE-Al; RV-RAv; SE-RAv; RAr-Pe; RF-Pe; RP-Pe; RV-Pe; SE-Pe; SE-RAr; VC-RF; SE-RP; VC-RV; VC-SE
DGTS (32:5)	2.55E-07	RAv-Al; SE-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; RV-Pe; SE-Pe; VC-Pe; SE-RAr; SE-RF; SE-RP
PC (36:4)	3.08E-07	RAv-Al; Pe-Al; RAr-Al; RP-Al; VC-Al; RP-RAv; RP-Pe; RP-RAr; RP-RF; RV-RP; SE-RP; VC-RP
MGDG (36:5)	6.71E-07	RP-Al; SE-Al; Pe-RAv; RF-RAv; RP-Pe; SE-Pe; SE-RAr; RP-RF; SE-RF; SE-RV; VC-SE
SQDG (32:0)	6.92E-07	RV-Al; SE-Al; RV-RAv; SE-RAv; RV-Pe; SE-Pe; RV-RAr; SE-RAr; RV-RF; SE-RF; SE-RP; VC-SE
PC (40:9)	7.54E-07	RAv-Al; RAr-Al; RF-Al; RP-Al; SE-Al; VC-Al; RP-Pe; SE-Pe; SE-RAr; RV-RP; SE-RV; VC-SE
PG (34:1)	9.13E-07	RP-Al; RV-Al; Pe-RAv; RP-RAv; RV-RAv; SE-RAv; VC-RAv; RF-Pe; RP-RF; RV-RF; SE-RF; VC-RF
DGTS (32:2)	1.43E-06	Pe-Al; Pe-RAv; RAr-RAv; RF-RAv; RV-Pe; SE-Pe; VC-Pe; SE-RAr; RV-RF; SE-RF; SE-RP
DGDG (36:5)	2.18E-06	RF-Al; RP-Al; VC-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; VC-RAv; RV-RF; SE-RF; VC-RV; VC-SE
PI (34:3)	2.86E-06	Pe-Al; RAr-Al; VC-Al; RF-Pe; RP-Pe; SE-Pe; RF-RAr; RP-RAr; SE-RAr; VC-RF; VC-RP; VC-SE

SQDG (32:2)	3.67E-06	RV-Al; RF-RAv; RV-Pe; SE-Pe; RV-RAr; RP-RF; RV-RF; SE-RF; VC-RF
DGDG (34:8)	5.64E-06	RAv-Al; RV-Al; Pe-RAv; RF-RAv; RP-RAv; RV-Pe; RV-RF; RV-RP
SQDG (36:5)	5.79E-06	Pe-RAv; RF-RAv; RP-Pe; RV-Pe; SE-Pe; RP-RF; RV-RF; SE-RF
PC (32:3)	1.01E-05	Pe-Al; RAr-Al; RP-Al; VC-Al; RP-RAv; RP-RF; RV-RP; SE-RP
PC (34:5)	1.09E-05	RP-Al; RV-RAv; RV-Pe; RP-RAr; RP-RF; RV-RP; SE-RV
DGDG (34:2)	1.41E-05	RAv-Al; Pe-RAv; RAr-RAv; RF-RAv; RP-RAv; RV-RAv; VC-RAv
SQDG (32:1)	2.55E-05	RV-Al; SE-Al; RV-RAv; RF-Pe; RV-RAr; RP-RF; RV-RF; SE-RF; VC-RF
SQDG (36:2)	3.29E-05	RV-Al; SE-Al; RV-Pe; SE-Pe; SE-RAr; SE-RF; SE-RP; VC-SE
DGTS (36:2)	4.07E-05	Pe-Al; RAr-Al; RF-Pe; RV-Pe; RF-RAr; RV-RAr; SE-RAr; VC-RF
SQDG (34:2)	5.88E-05	RV-Pe; SE-Pe; RV-RAr; SE-RAr; RV-RP; SE-RP; VC-RV; VC-SE
MGMG (18:4)	5.99E-05	RAv-Al; Pe-Al; RF-Al; RV-Al; SE-Al; VC-Al; RV-RP
DGTS (34:1)	7.96E-05	Pe-RAv; RAr-RAv; RP-RAv; VC-RAv; RV-Pe; SE-Pe; RV-RAr; SE-RAr; SE-RF; SE-RP; VC-SE
PG (32:2)	8.87E-05	RP-Al; SE-Al; RP-RAv; SE-RAv; RP-RF; SE-RF
SQDG (34:4)	0.000105	RAr-Al; RV-Al; SE-Al; RV-RAv; SE-RAv; SE-Pe; RV-RF; SE-RF
LPC (16:0)	0.000112	RP-RAv; RP-RAr; RP-RF; SE-RP; SE-RV
DGDG (34:4)	0.000142	Pe-Al; Pe-RAv; RP-Pe; RV-Pe; SE-Pe
SQDG (33:1)	0.000265	RP-RAv; RV-RAv; SE-RAv; VC-RAv
PG (40:6)	0.000297	RV-Al; SE-Al; SE-RAv; SE-Pe; SE-RAr; SE-RF; SE-RP; VC-SE
SQDG (36:4)	0.000378	SE-Al; RF-RAv; SE-Pe; RV-RF; SE-RF; SE-RP
DGTS (32:3)	0.000409	Pe-RAv; RF-RAv; RP-RAv; VC-RAv; SE-Pe; SE-RP
SQDG (34:1)	0.0009	RV-Al; SE-Al; SE-RF
DGTS (30:1)	0.001223	RP-RAr; RP-RF; RV-RP; SE-RP
DGTS (32:1)	0.009099	RV-RF; VC-RF
SQDG (34:3)	0.009897	RP-RAv
DGDG (34:1)	0.016569	RF-RAv
MGDG (36:6)	0.017302	SE-Al; SE-Pe; SE-RF
PI (38:8)	0.021072	RP-RAv
PC (30:3)	0.022561	RAv-Al
PG (36:2)	0.033494	SE-RF
DGDG (34:3)	0.041392	RP-RAv

