

Supplementary Materials

Figure S1: Monosaccharide compositions spectrum of *Anabasis ehrenbergii*

Figure S2: Monosaccharide compositions spectrum of *Suaeda aegyptiaca*

Figure S3: Monosaccharide compositions spectrum of *Suaeda monoica*

Figure S4: Monosaccharide compositions spectrum of *Zygophyllum album*

Figure S5: Amino acids compositions spectrum of *Anabasis ehrenbergii*

Figure S6: Amino acids compositions spectrum of *Suaeda aegyptiaca*

Figure S7: Amino acids compositions spectrum of *Suaeda monoica*

Figure S8: Amino acids compositions spectrum of *Zygophyllum album*

Figure S9: Phenolic compositions spectrum of *Anabasis ehrenbergii*

Figure S10: Phenolic compositions spectrum of *Suaeda aegyptiaca*

Figure S11: Phenolic compositions spectrum of *Suaeda monoica*

Figure S12: Phenolic compositions spectrum of *Zygophyllum album*

Figure S13: Fatty acids compositions spectrum of *Anabasis ehrenbergii*

Figure S14: Fatty acids compositions spectrum of *Suaeda aegyptiaca*

Figure S15: Fatty acids compositions spectrum of *Suaeda monoica*

Figure S16: Fatty acids compositions spectrum of *Zygophyllum album*

Figure S17: Unsaponifiable matter compositions spectrum of *Anabasis ehrenbergii*

Figure S18: Unsaponifiable matter compositions spectrum of *Suaeda aegyptiaca*

Figure S19: Unsaponifiable matter compositions spectrum of *Suaeda monoica*

Figure S20: Unsaponifiable matter compositions spectrum of *Zygophyllum album*

1. Polysaccharide analysis:

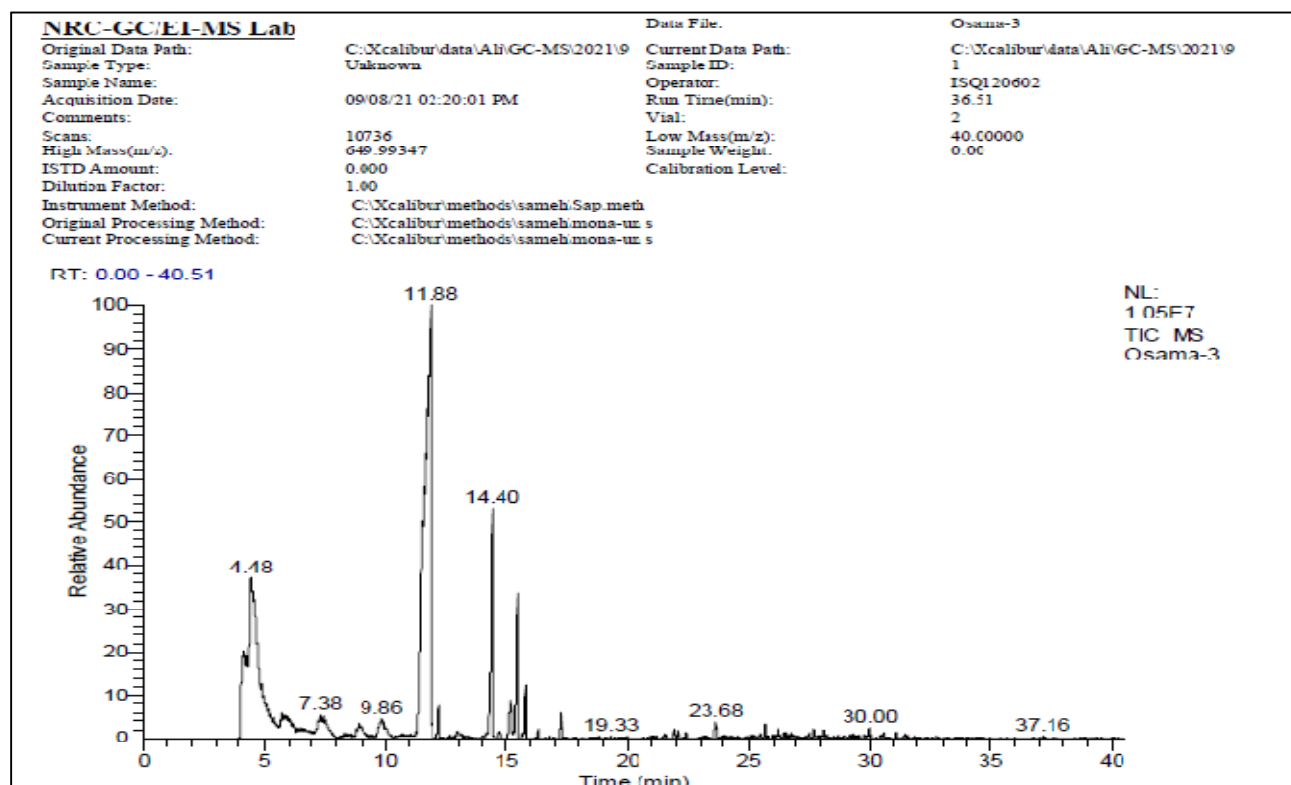


Figure S1: Monosaccharide compositions spectrum of *Anabasis ehrenbergii*

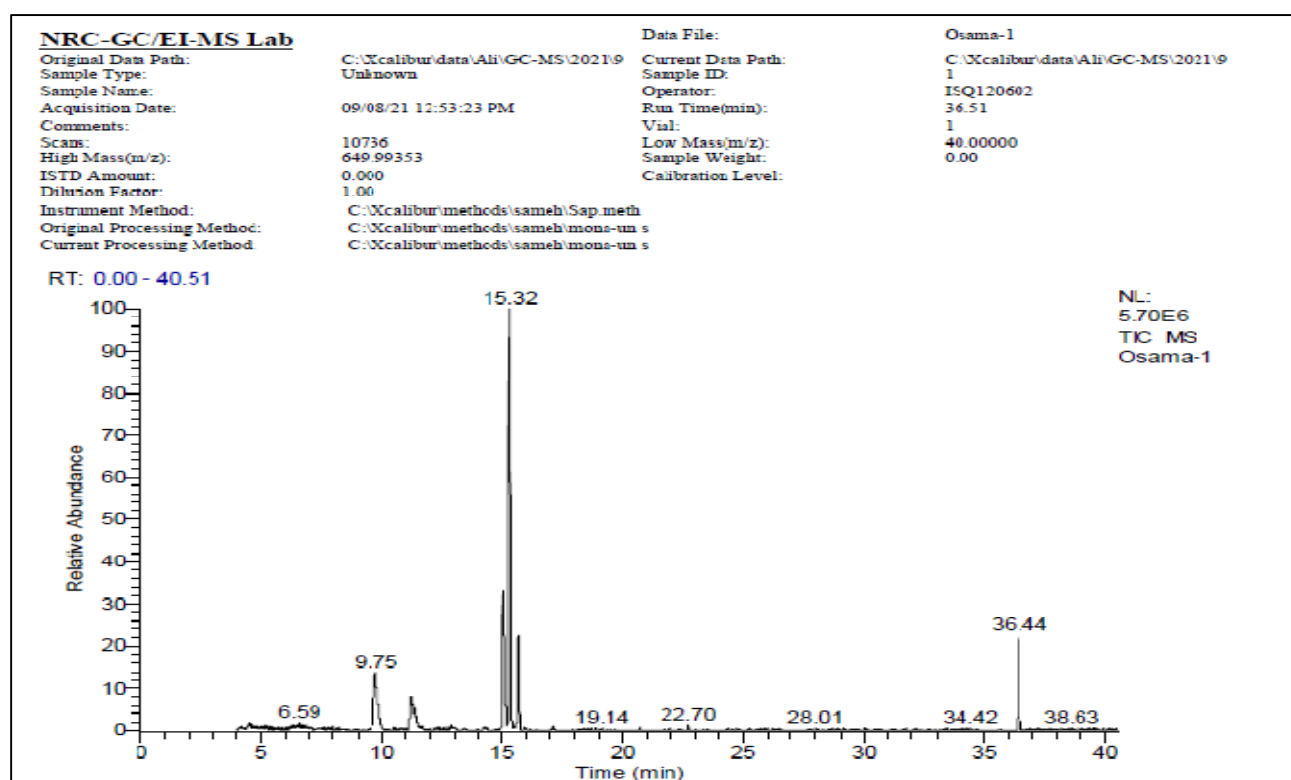


Figure S2: Monosaccharide compositions spectrum of *Suaeda aegyptiaca*

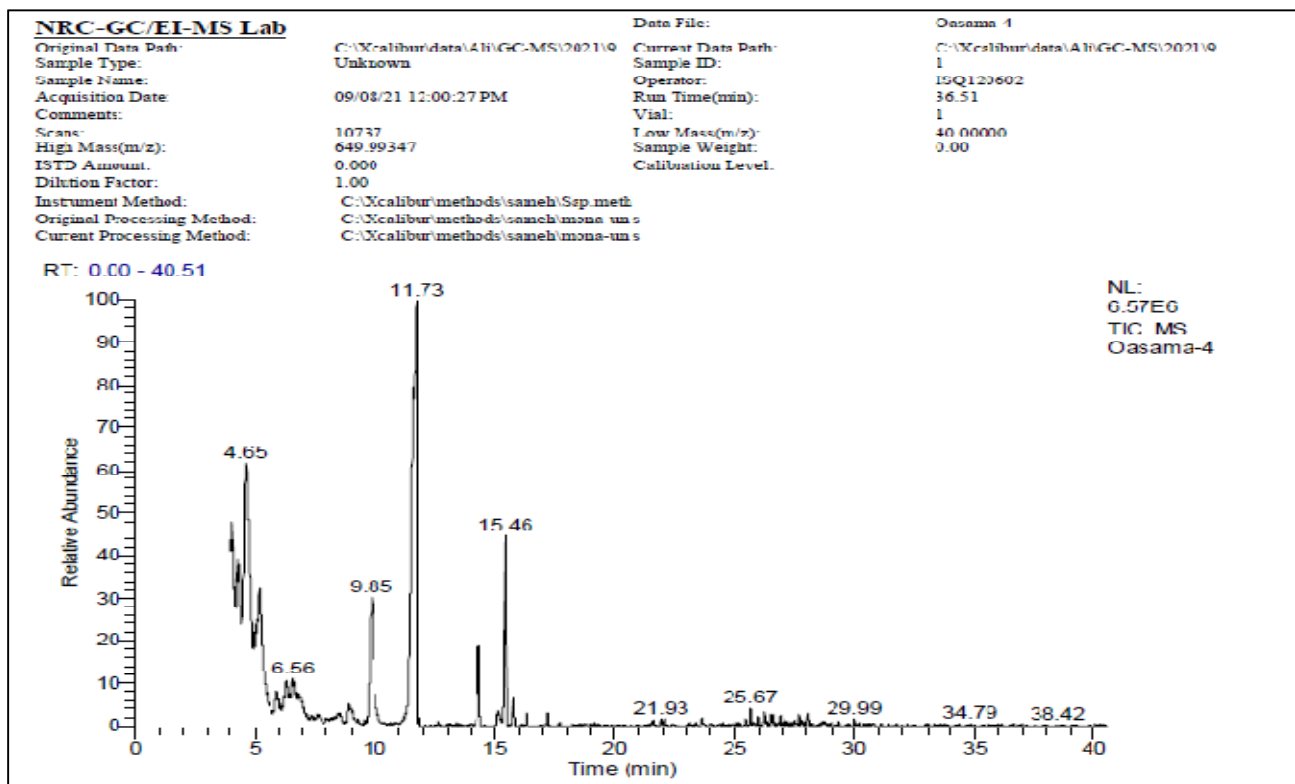


Figure S3: Monosaccharide compositions spectrum of *Suaeda monoica*

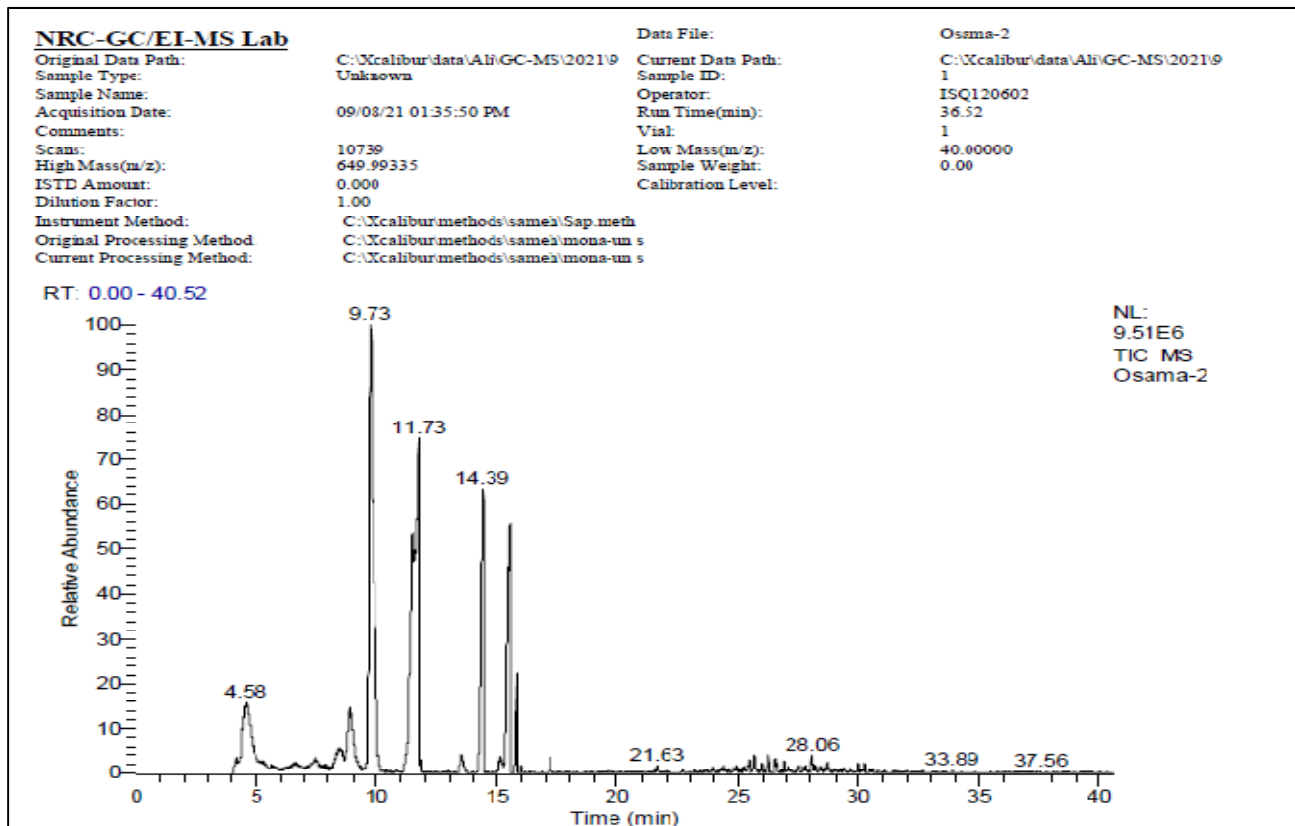


Figure S4: Monosaccharide compositions spectrum of *Zygophyllum album*

2. Amino acids compositions:

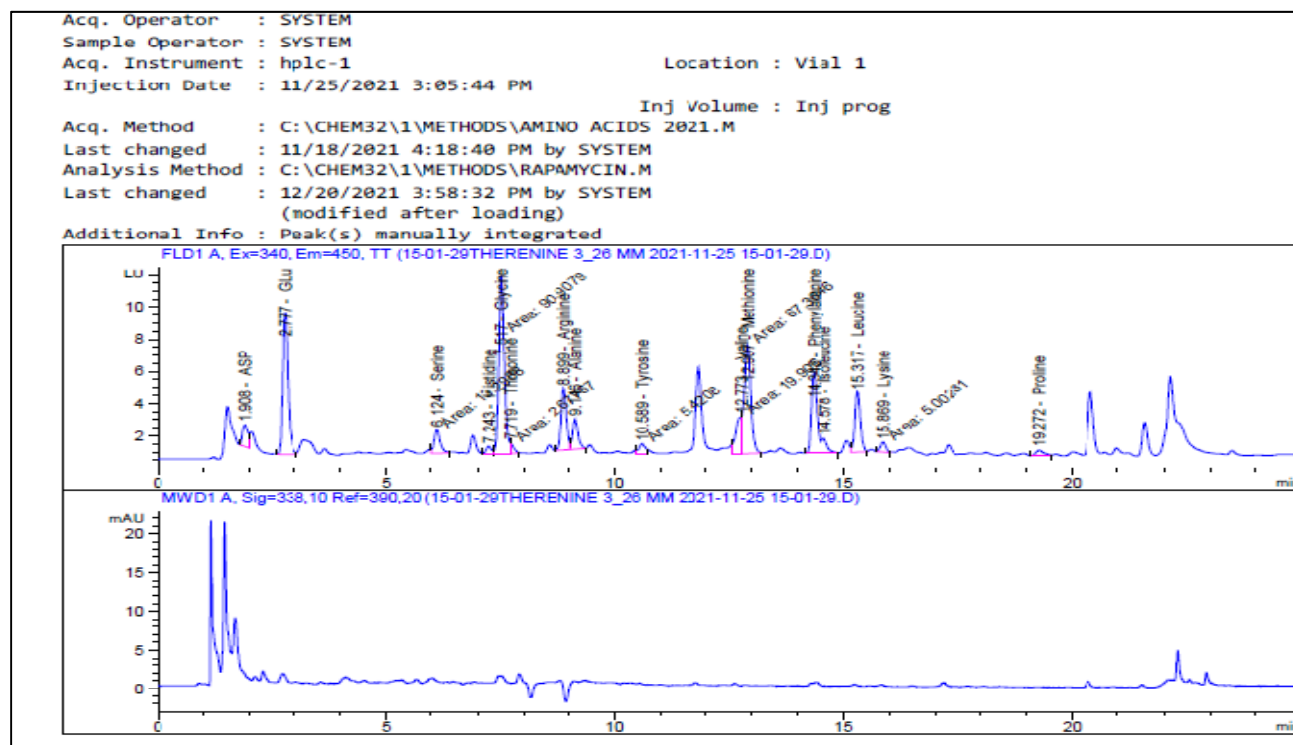


Figure S5: Amino acids compositions spectrum of *Anabasis ehrenbergii*

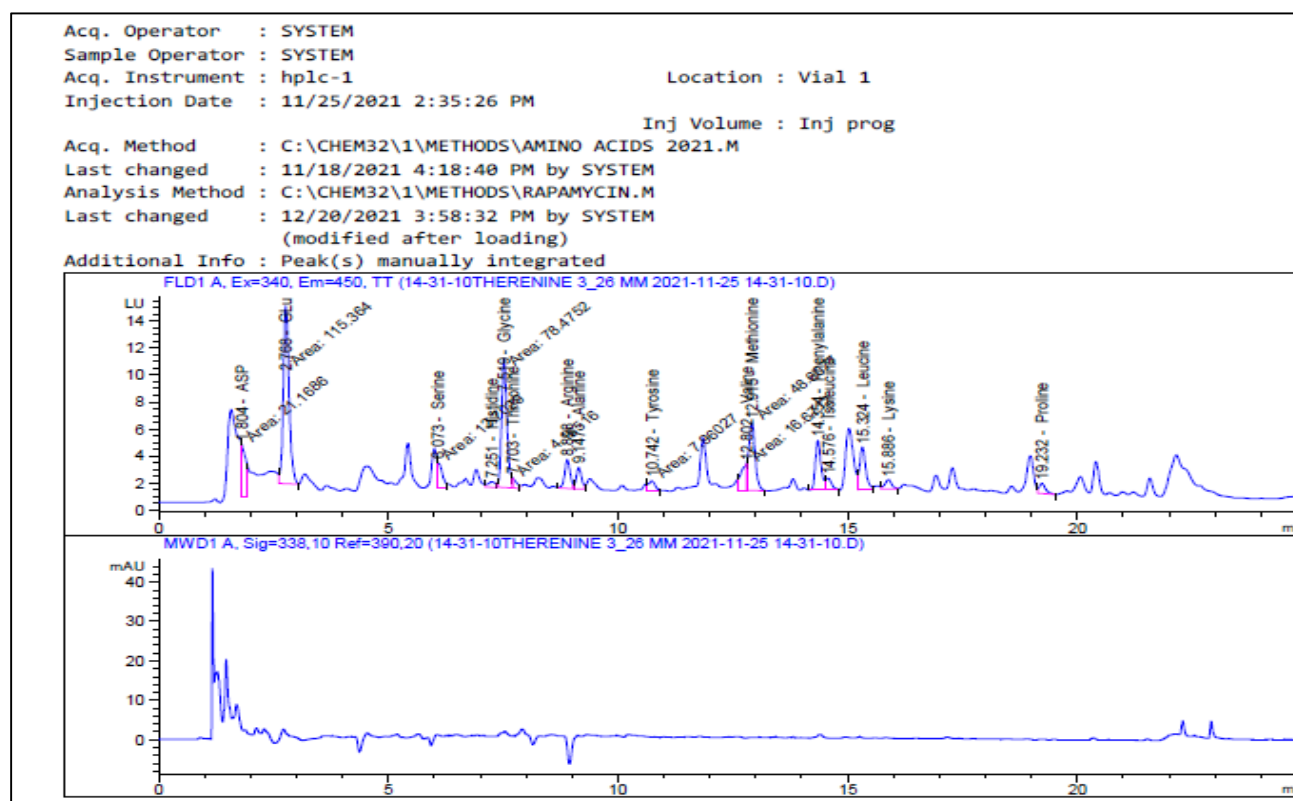


Figure S6: Amino acids compositions spectrum of *Suaeda aegyptiaca*

Acq. Operator : SYSTEM
 Sample Operator : SYSTEM
 Acq. Instrument : hplc-1
 Injection Date : 11/25/2021 4:25:06 PM
 Location : Vial 1
 Inj Volume : Inj prog
 Acq. Method : C:\CHEM32\1\METHODS\AMINO ACIDS 2021.M
 Last changed : 11/18/2021 4:18:40 PM by SYSTEM
 Analysis Method : C:\CHEM32\1\METHODS\RAPAMYCIN.M
 Last changed : 12/20/2021 3:58:32 PM by SYSTEM
 (modified after loading)
 Additional Info : Peak(s) manually integrated

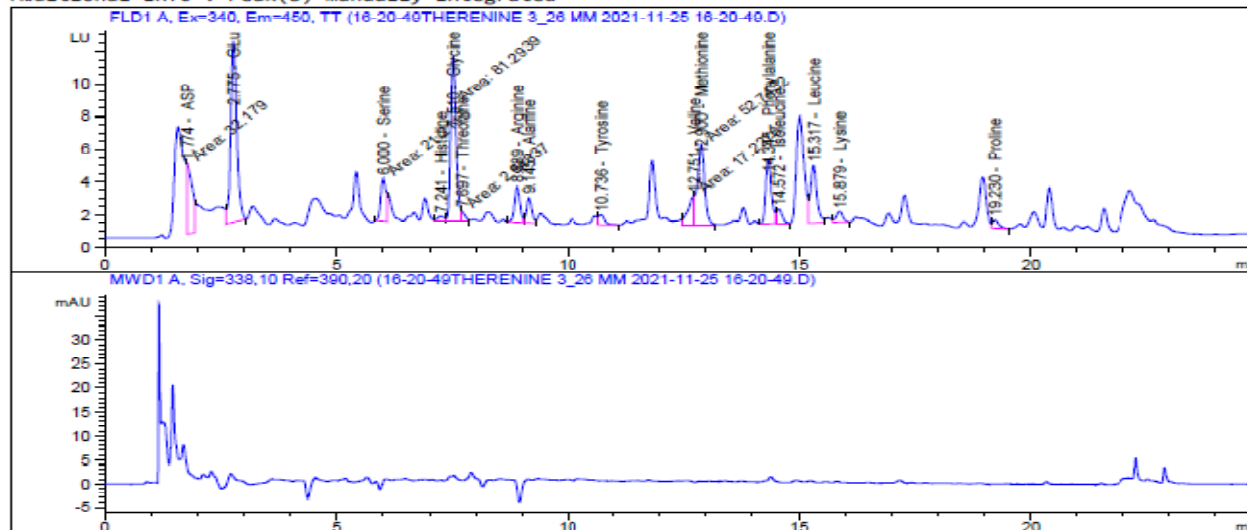


Figure S7: Amino acids compositions spectrum of *Saueda monoica*

Acq. Operator : SYSTEM
 Sample Operator : SYSTEM
 Acq. Instrument : hplc-1
 Injection Date : 11/25/2021 3:35:43 PM
 Location : Vial 1
 Inj Volume : Inj prog
 Acq. Method : C:\CHEM32\1\METHODS\AMINO ACIDS 2021.M
 Last changed : 11/18/2021 4:18:40 PM by SYSTEM
 Analysis Method : C:\CHEM32\1\METHODS\RAPAMYCIN.M
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 (modified after loading)
 Additional Info : Peak(s) manually integrated

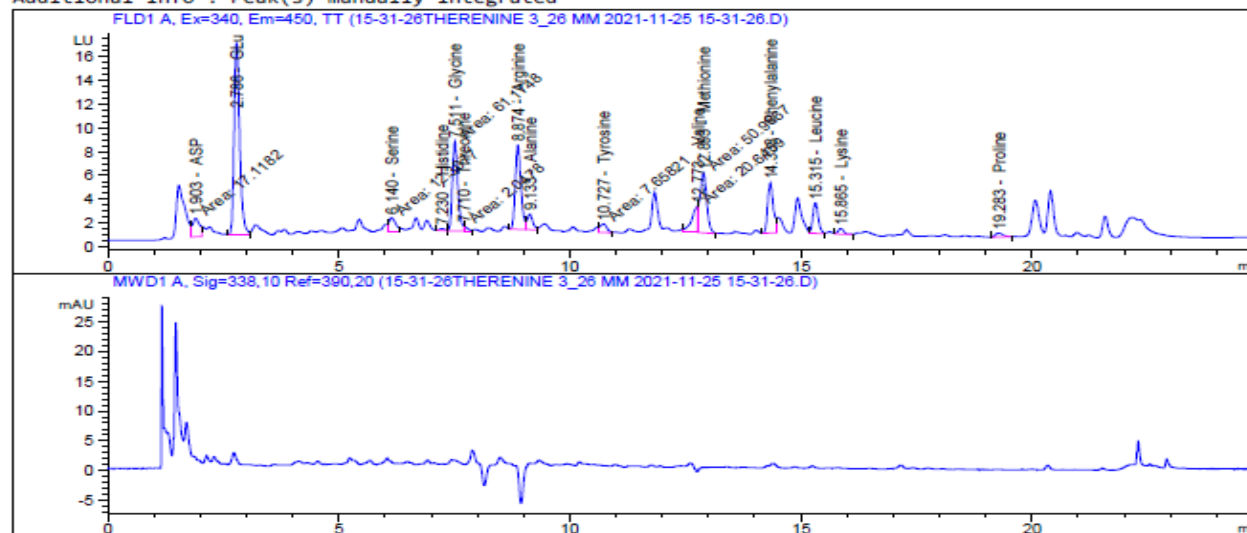


Figure S8: Amino acids compositions spectrum of *Zygothallum album*

3. Polyphenol compositions:

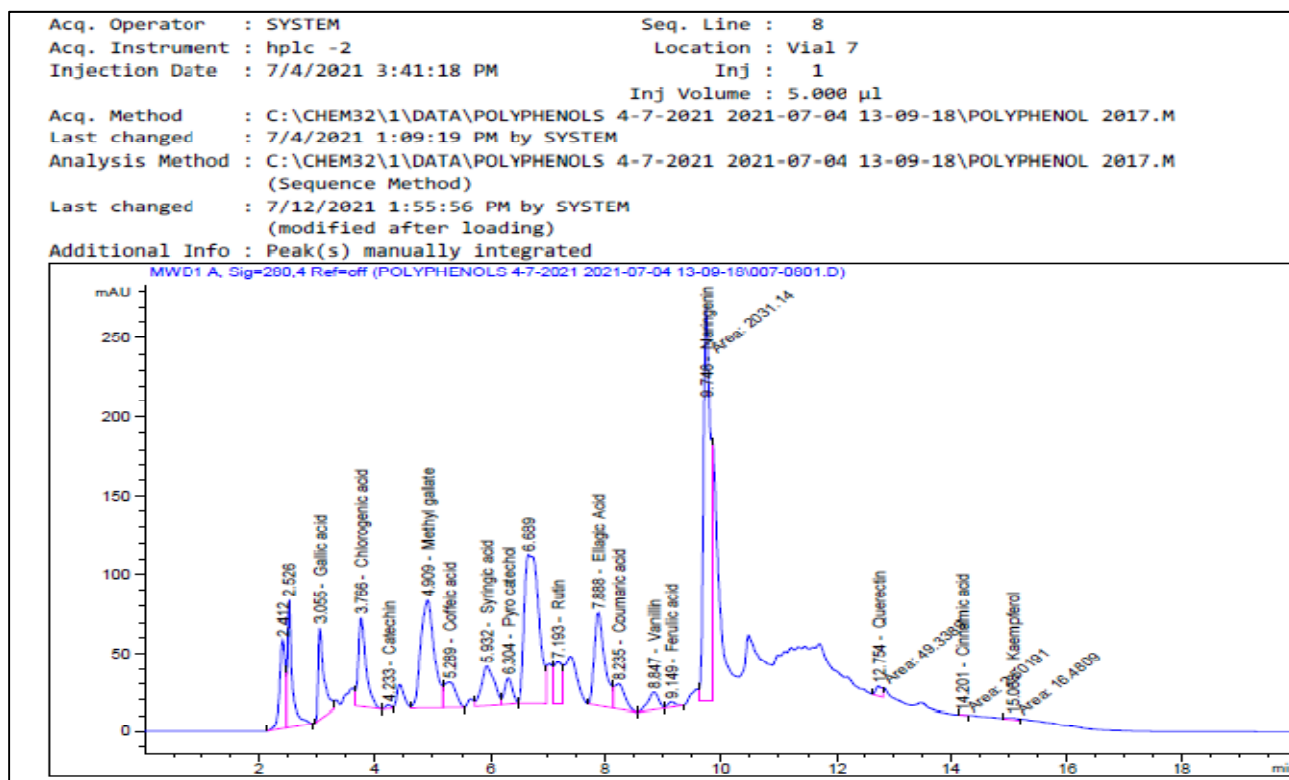


Figure S9: Phenolic compositions spectrum of *Anabasis ehrenbergii*

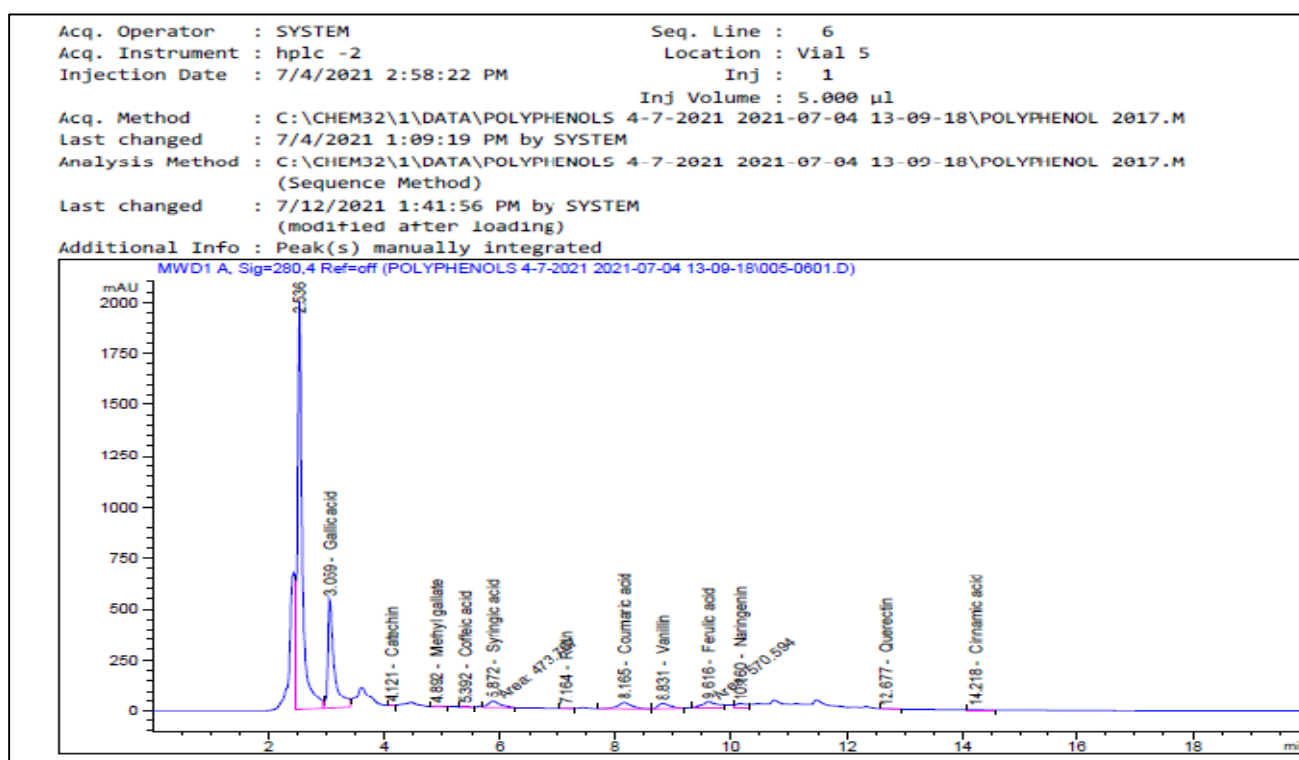


Figure S10: Phenolic compositions spectrum of *Suaeda aegyptiaca*

Acq. Operator : SYSTEM Seq. Line : 9
 Acq. Instrument : hplc -2 Location : Vial 8
 Injection Date : 7/4/2021 4:02:46 PM Inj : 1
 Inj Volume : 5.000 µl
 Acq. Method : C:\CHEM32\1\DATA\POLYPHENOLS 4-7-2021 2021-07-04 13-09-18\POLYPHENOL 2017.M
 Last changed : 7/4/2021 1:09:19 PM by SYSTEM
 Analysis Method : C:\CHEM32\1\DATA\POLYPHENOLS 4-7-2021 2021-07-04 13-09-18\POLYPHENOL 2017.M
 (Sequence Method)
 Last changed : 7/12/2021 1:55:56 PM by SYSTEM
 (modified after loading)
 Additional Info : Peak(s) manually integrated

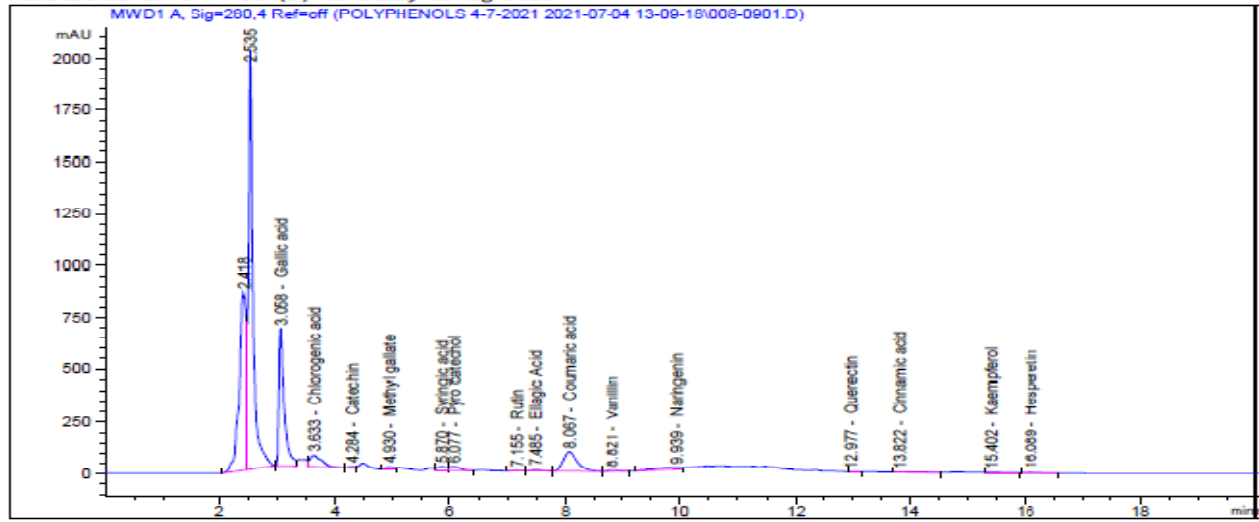


Figure S11: Phenolic compositions spectrum of *Saueda monoica*

Acq. Operator : SYSTEM Seq. Line : 7
 Acq. Instrument : hplc -2 Location : Vial 6
 Injection Date : 7/4/2021 3:19:50 PM Inj : 1
 Inj volume : 5.000 µl
 Acq. Method : C:\CHEM32\1\DATA\POLYPHENOLS 4-7-2021 2021-07-04 13-09-18\POLYPHENOL 2017.M
 Last changed : 7/4/2021 1:09:19 PM by SYSTEM
 Analysis Method : C:\CHEM32\1\DATA\POLYPHENOLS 4-7-2021 2021-07-04 13-09-18\POLYPHENOL 2017.M
 (Sequence Method)
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 Additional Info : Peak(s) manually integrated

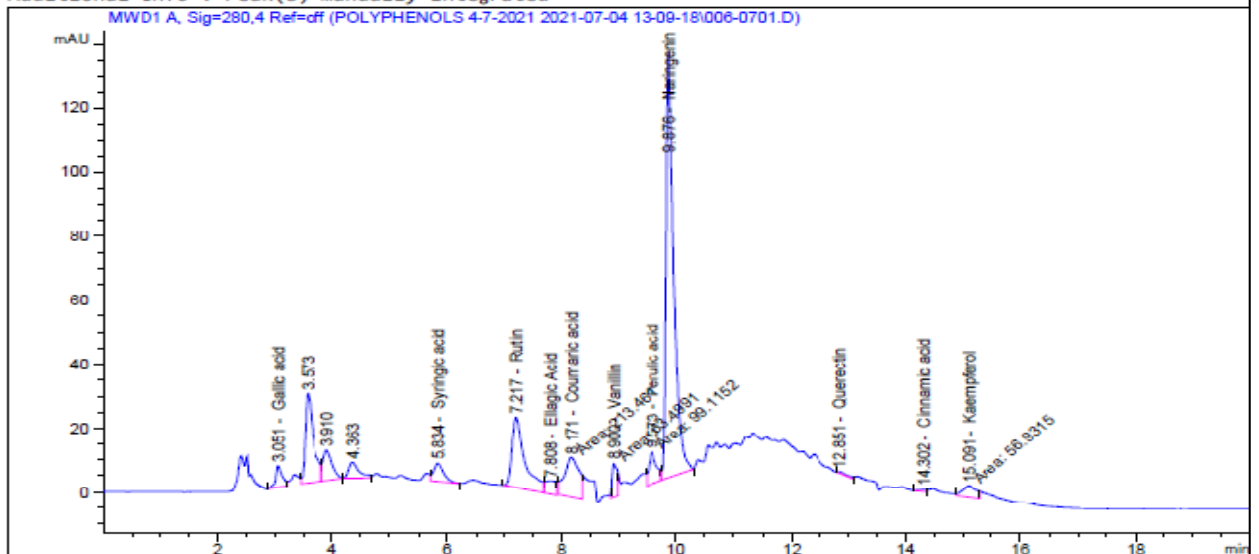


Figure S12: Phenolic compositions spectrum of *Zygophyllum album*

4. Fatty acids compositions:

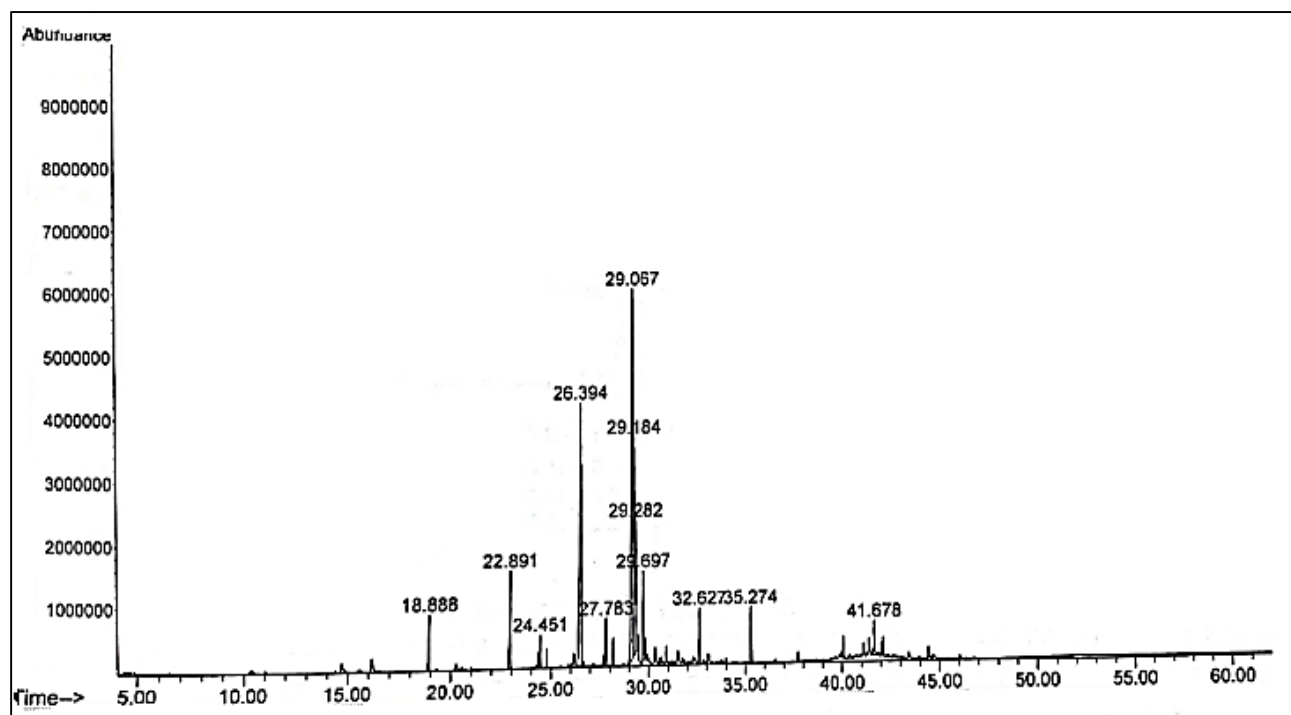


Figure S13: Fatty acids compositions spectrum of *Anabasis ehrenbergii*

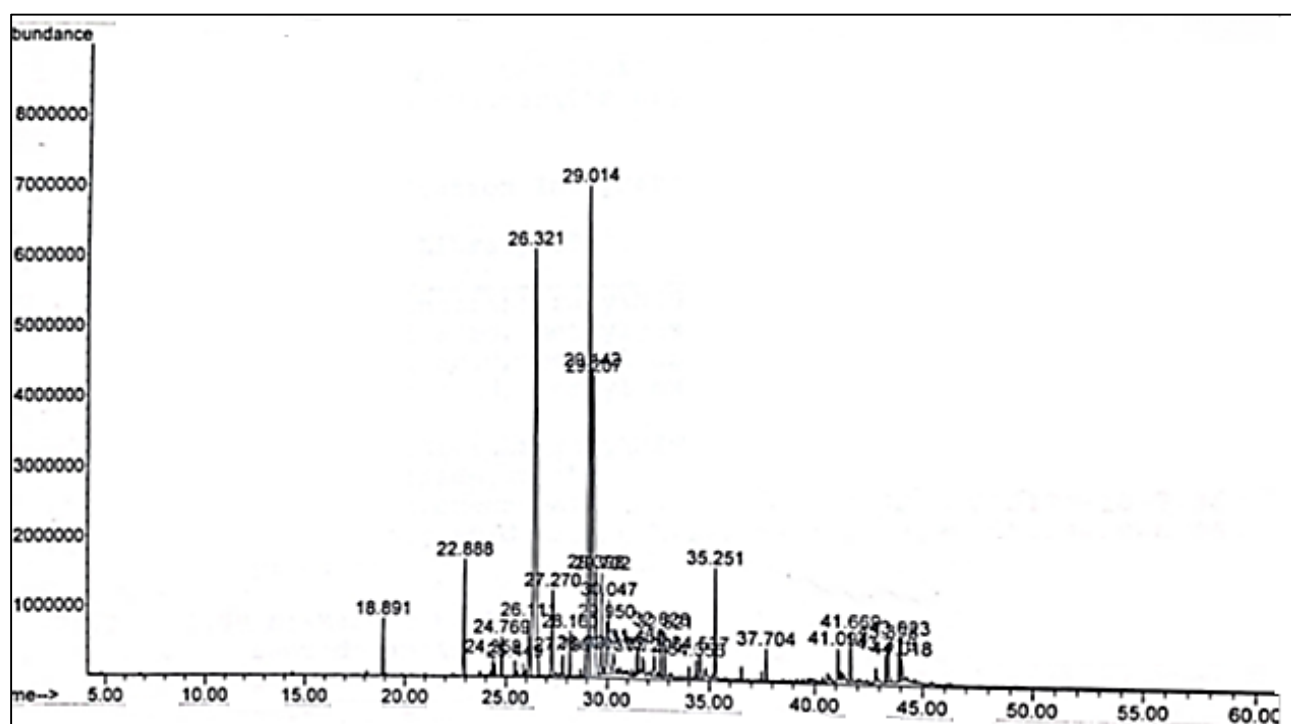


Figure S14: Fatty acids compositions spectrum of *Suaeda aegyptiaca*

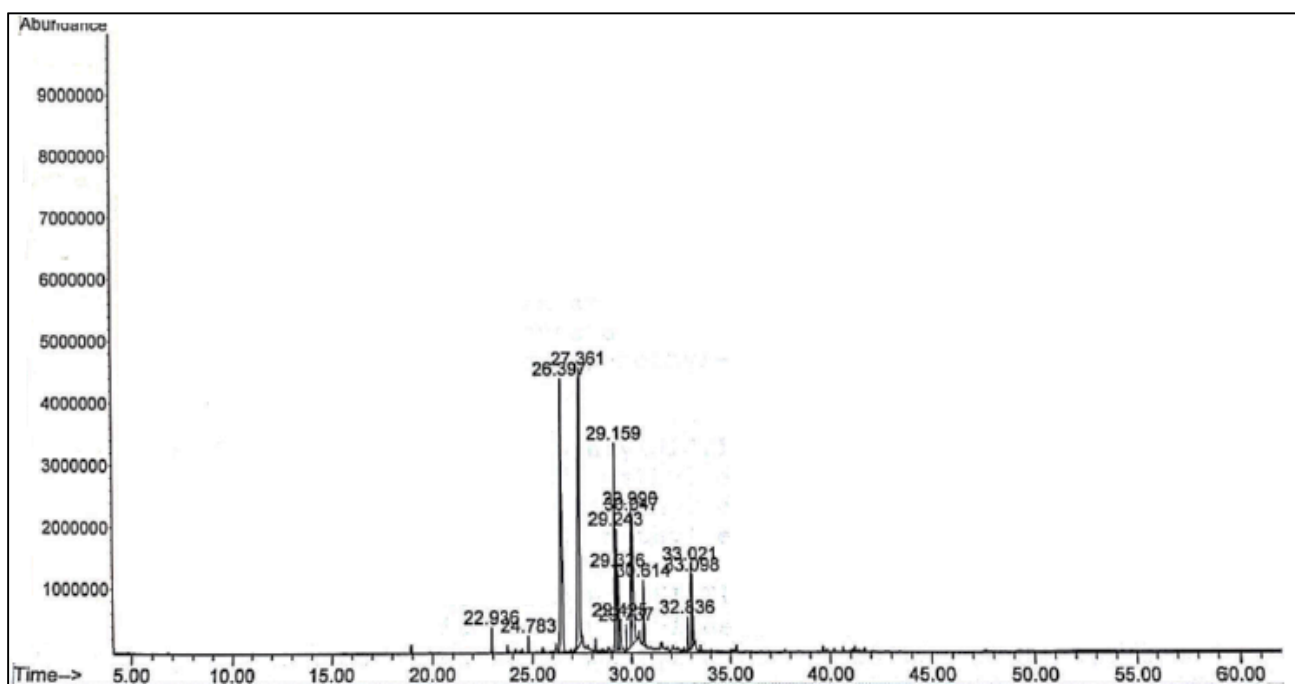


Figure S15: Fatty acids compositions spectrum of *Saueda monoica*

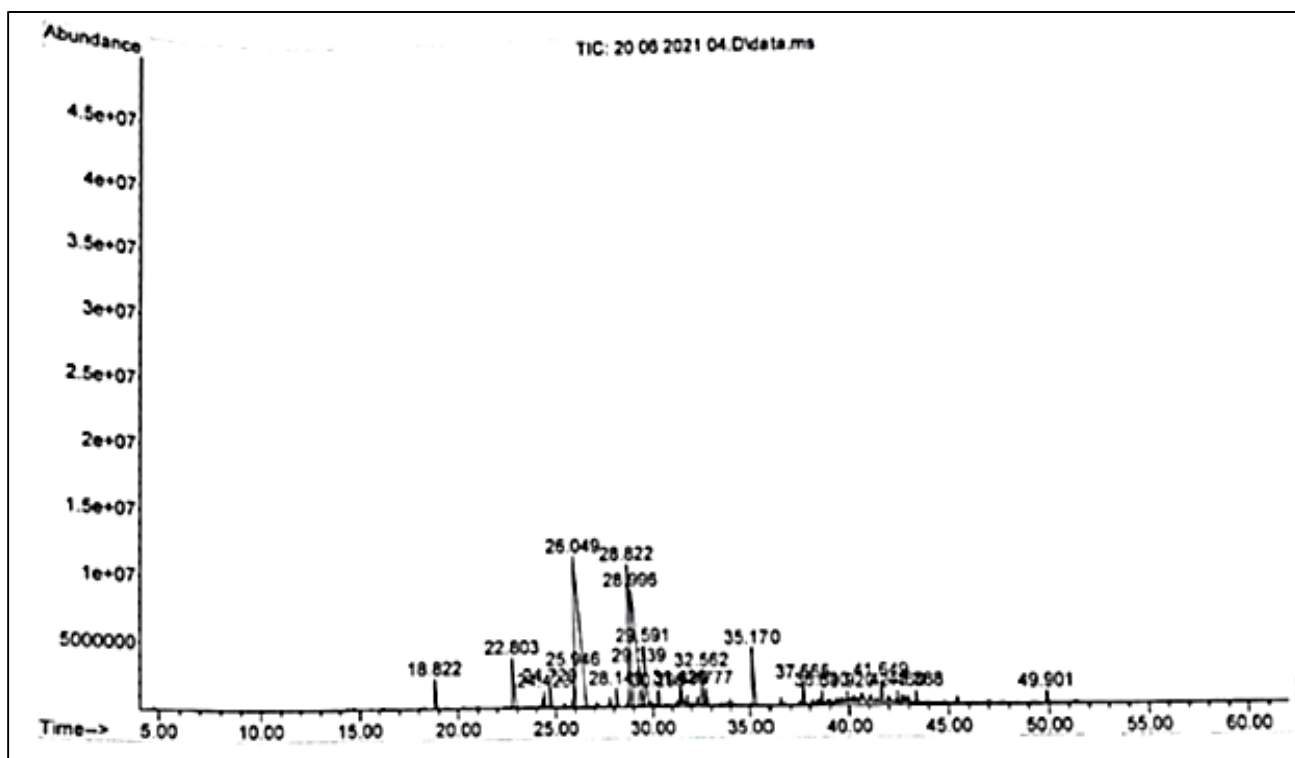


Figure S16: Fatty acids compositions spectrum of *Zygothallum album*

5. Unsaponifiable matter analysis:

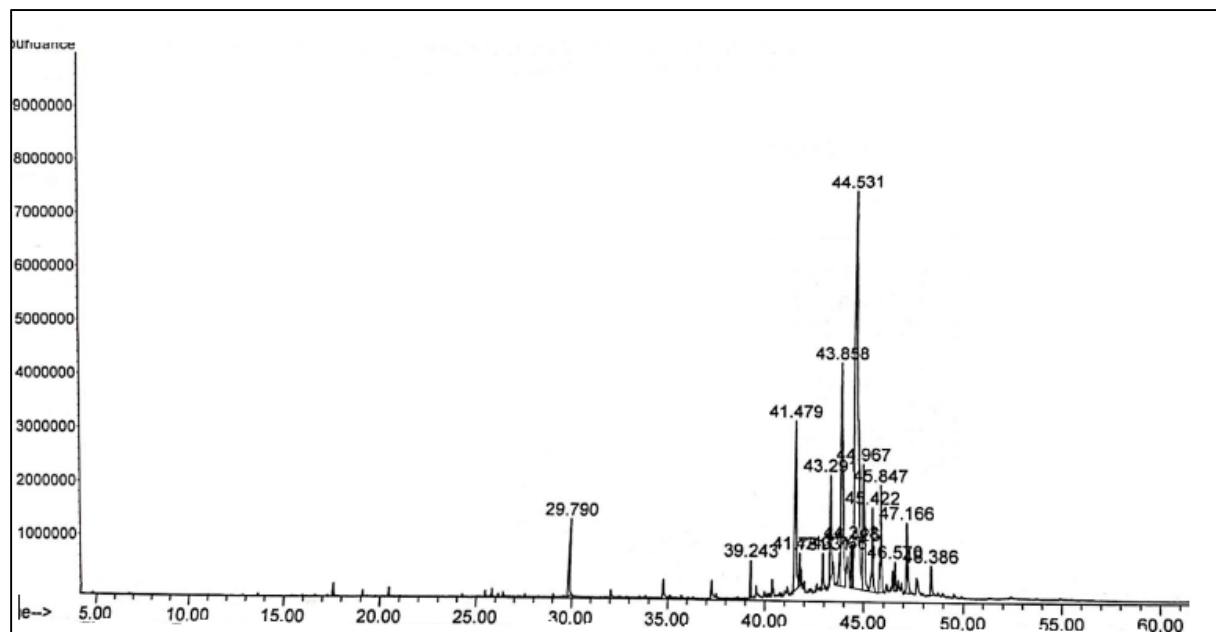


Figure S17: Unsaponifiable matter compositions spectrum of *Anabasis ehrenbergii*

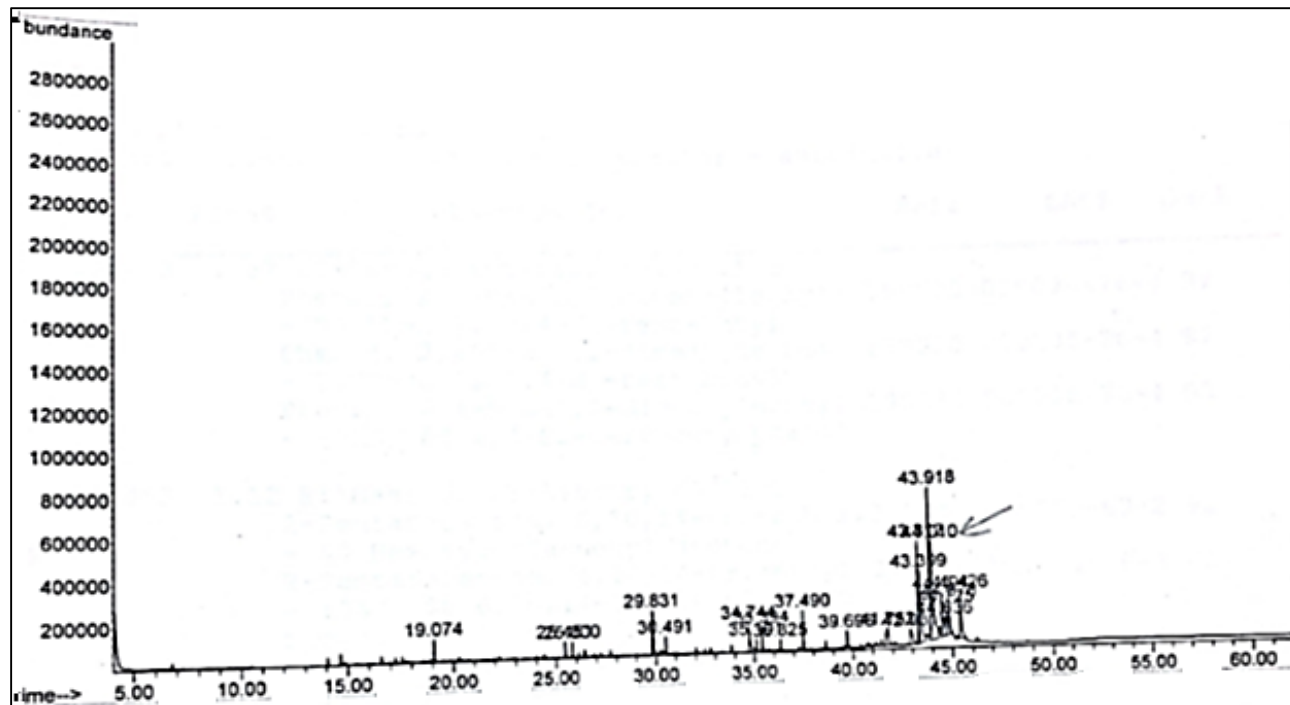


Figure S18: Unsaponifiable matter compositions spectrum of *Suaeda aegyptiaca*

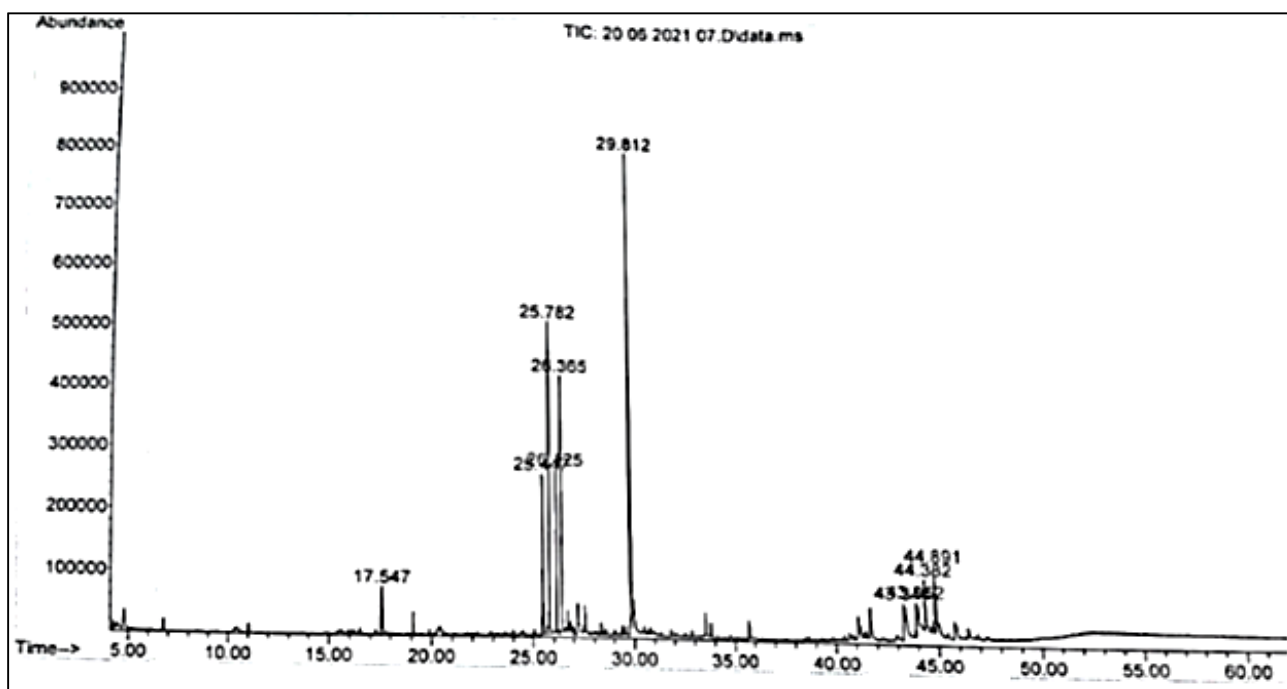


Figure S19: Unsaponifiable matter compositions spectrum of *Suaeda monoica*

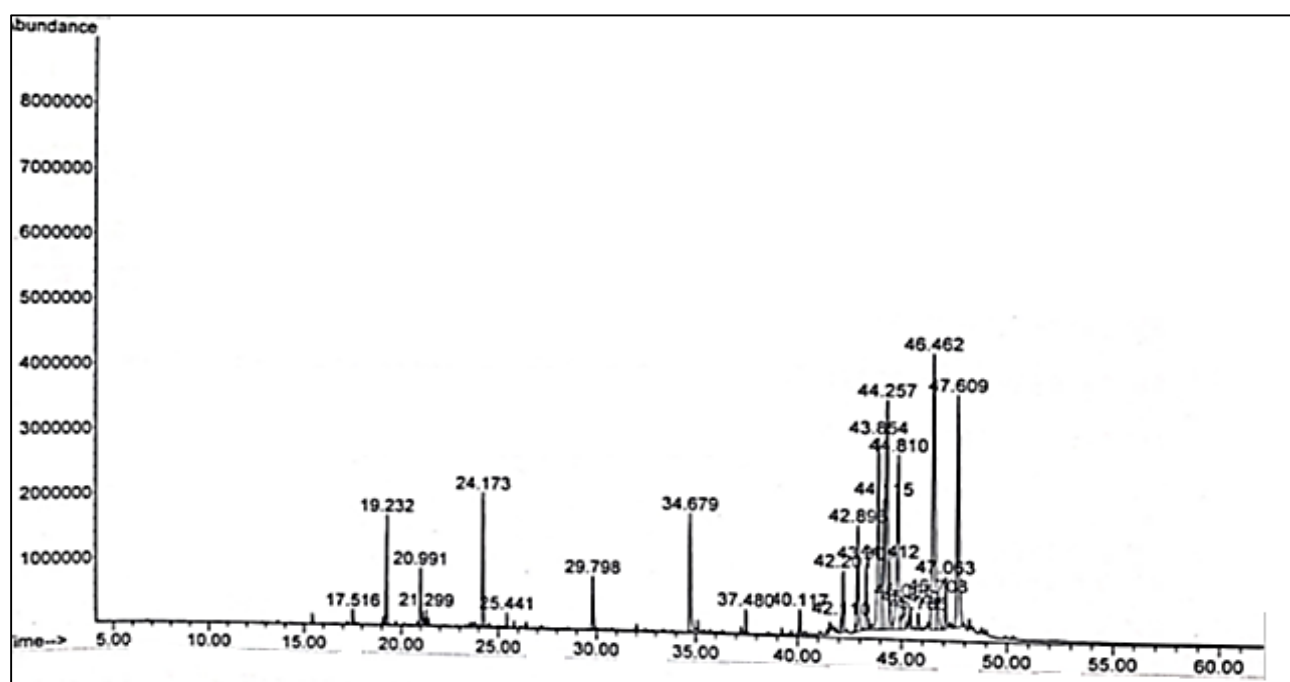


Figure S20: Unsaponifiable matter compositions spectrum of *Zygophyllum album*