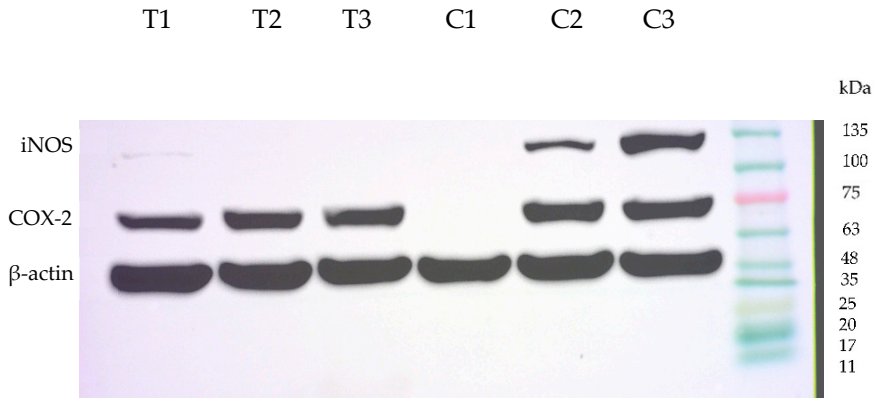
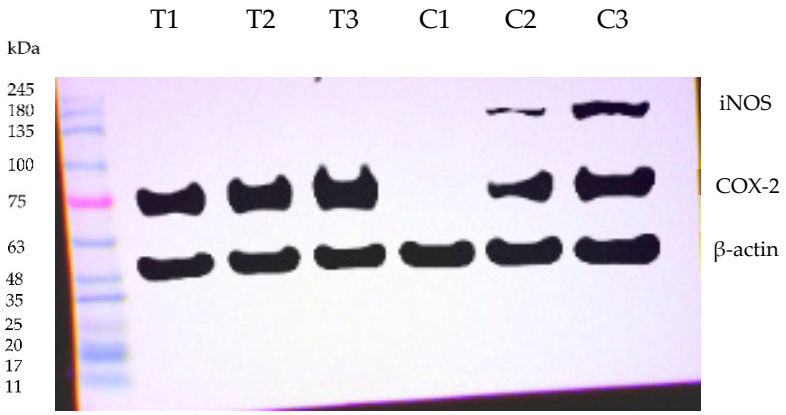
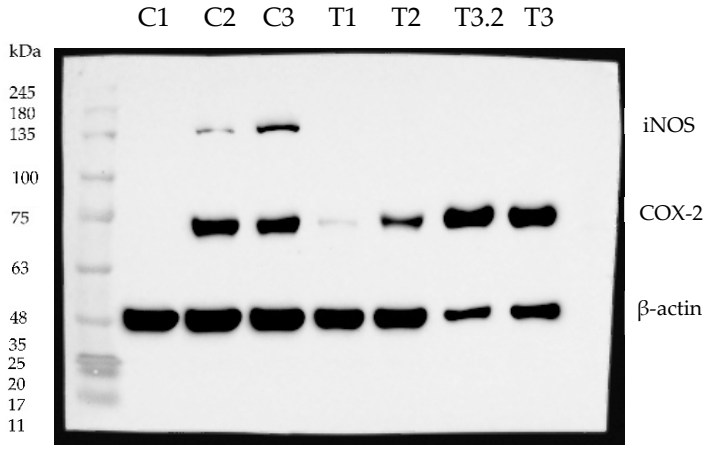
Figure S1: Original Western blot images for three repeats of iNOS, COX-2 and β-actin



Representative blot shown in main text (Repeat 1)



Repeat 2



Repeat 3

T1: *Spirulina platensis* ethanol extract 0.5 mg/mL
T2: *Spirulina platensis* ethanol extract 1 mg/mL
T3: *Spirulina platensis* ethanol extract 2 mg/mL
C1: Negative control (Untreated)
C2: Lipopolysaccharide (LPS) control (Stimulated with 1 μg/mL LPS)

Excluded in the main text:
C3: Positive control (Stimulated with 1 μg/mL LPS + treated with N(γ)-nitro-L-arginine methyl ester (L-NAME))
T3.2: Replicate of *Spirulina platensis* ethanol extract 2 mg/mL

Molecular weight of the target proteins:
iNOS – 130 kDa
COX-2 – 74 kDa
β-actin – 45 kDa

Figure S2: Chromatogram of *S. platensis* ethanol extract

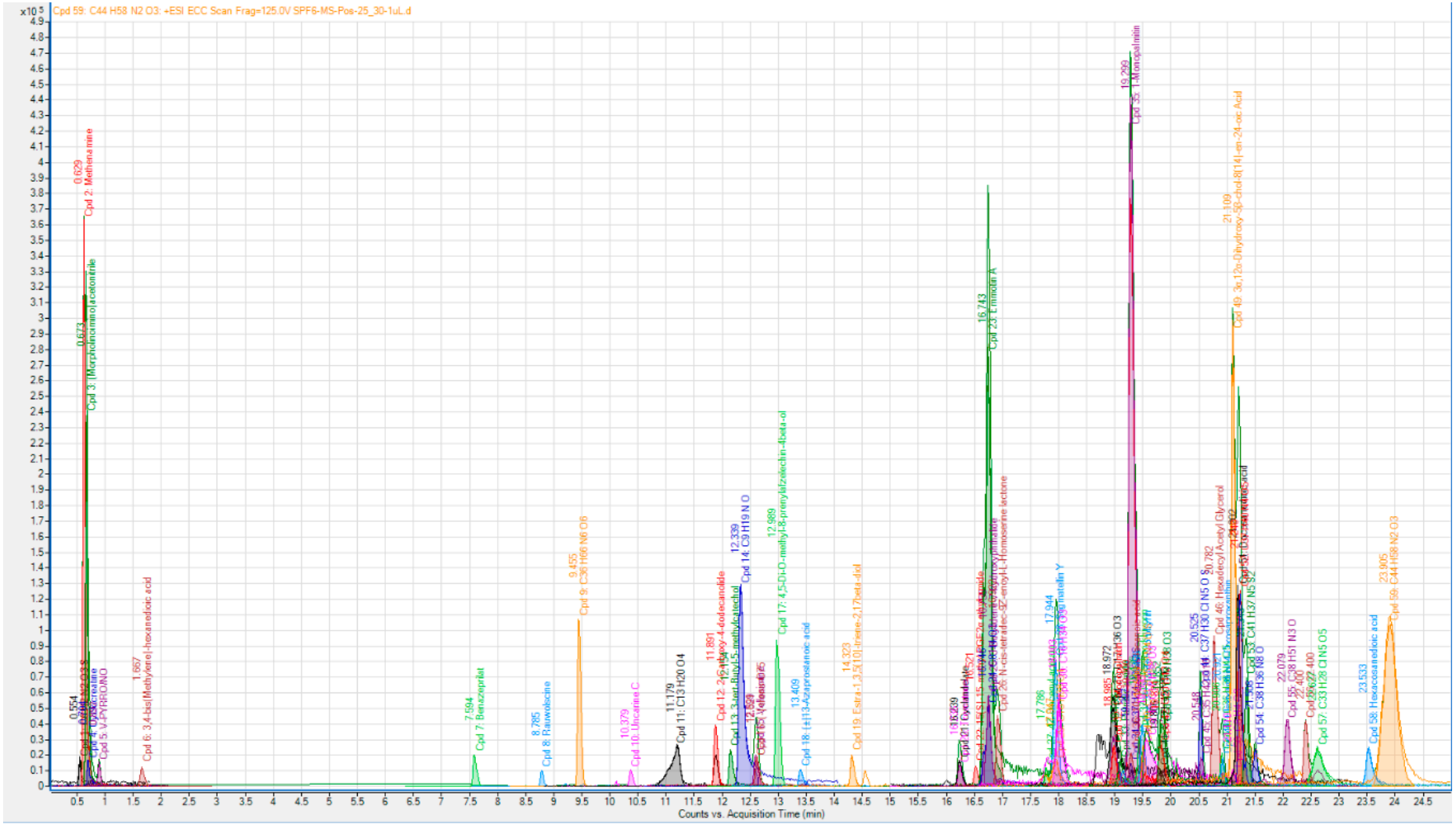
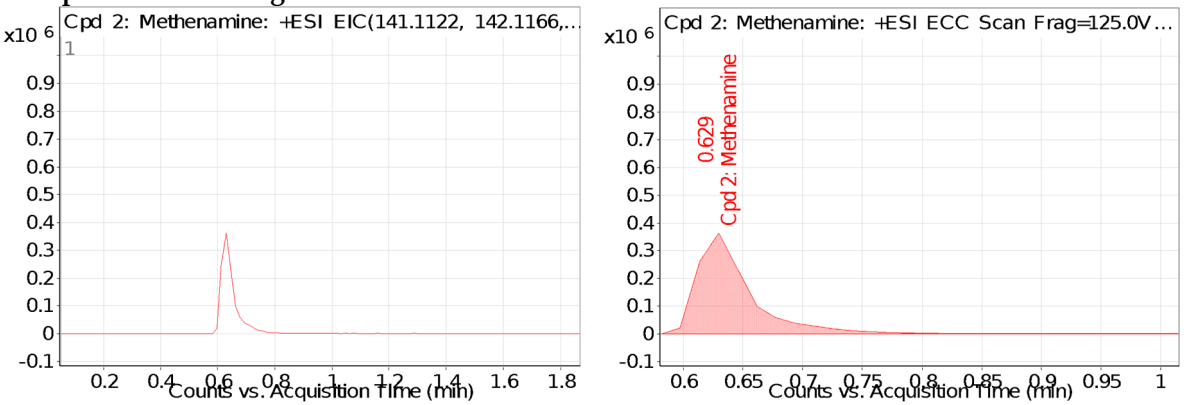


Figure S3: Mass spectra of individual compounds

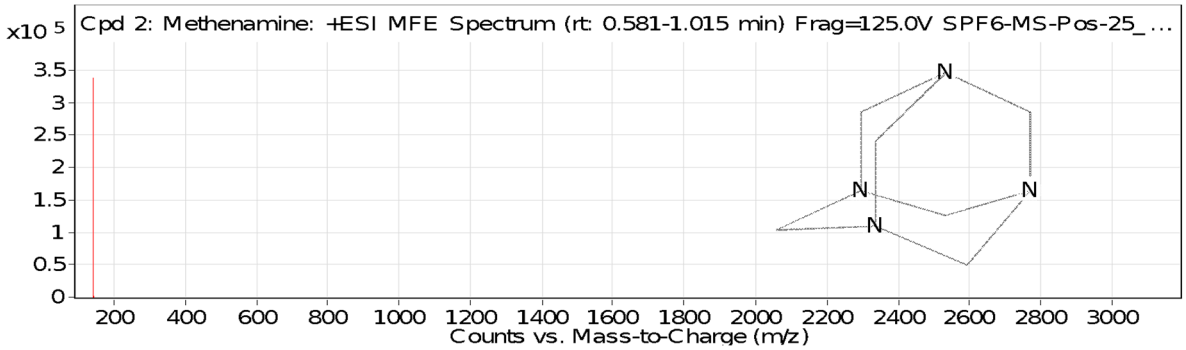
Compound i: Methenamine

Compound Label	Name	*m/z*	RT	Algorithm	Mass
Cpd 2: Methenamine	**Methenamine**	141.1132	0.629	Find by Molecular Feature	140.106

Compound Chromatograms



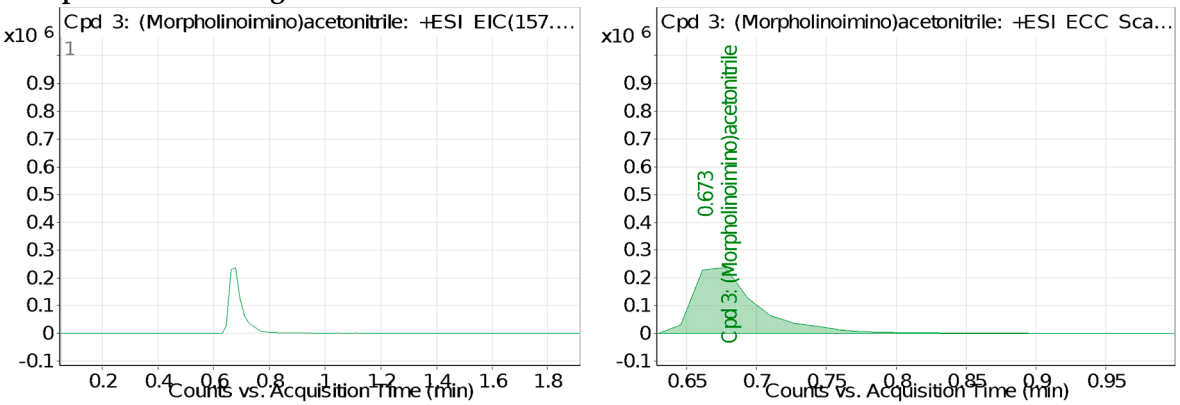
MFE MS Spectrum



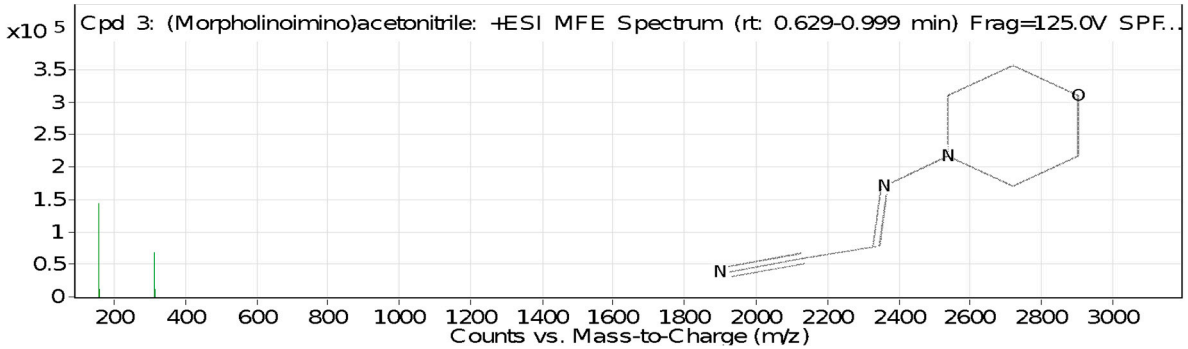
Compound ii: **Morpholinoiminoacetonitrile**

Compound Label	Name	*m/z*	RT	Algorithm	Mass
Cpd 3: (Morpholinoimino)acetonitrile	**(Morpholinoimino)acetonitrile**	157.1081	0.673	Find by Molecular Feature	139.0742

Compound Chromatograms



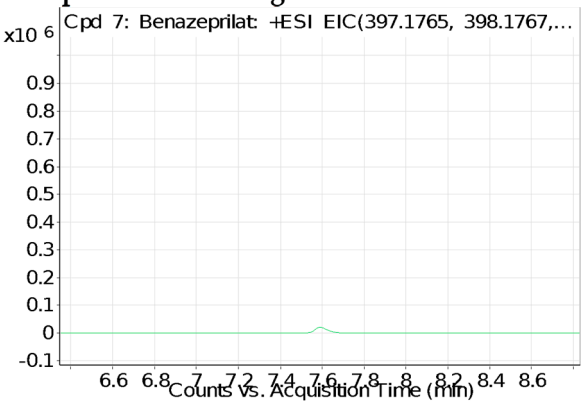
MFE MS Spectrum

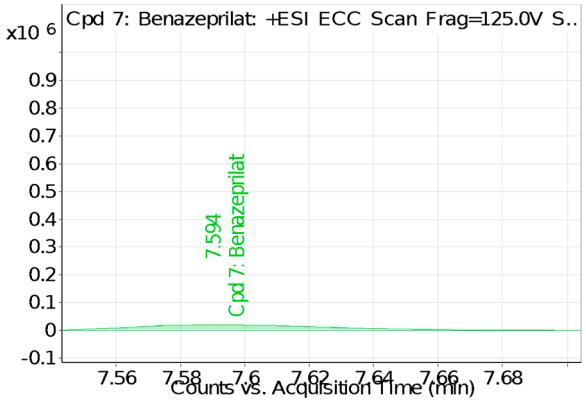


Compound iii: **Benazeprilat**

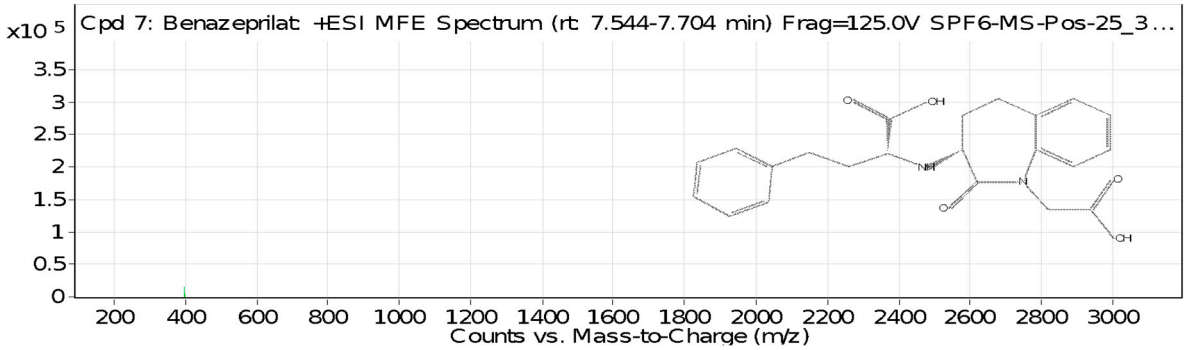
Compound Label	Name	*m/z*	RT	Algorithm	Mass
Cpd 7: Benazeprilat	**Benazeprilat**	397.1761	7.594	Find by Molecular Feature	396.1687

Compound Chromatograms





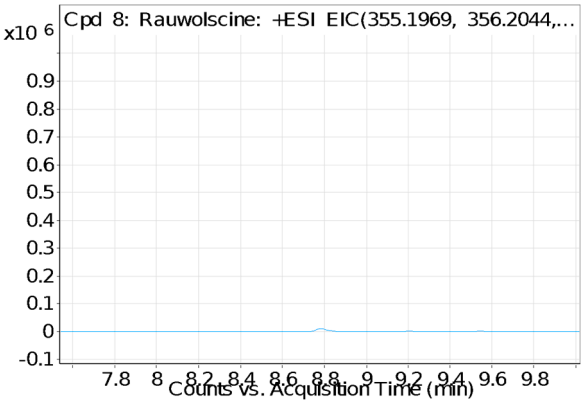
MFE MS Spectrum

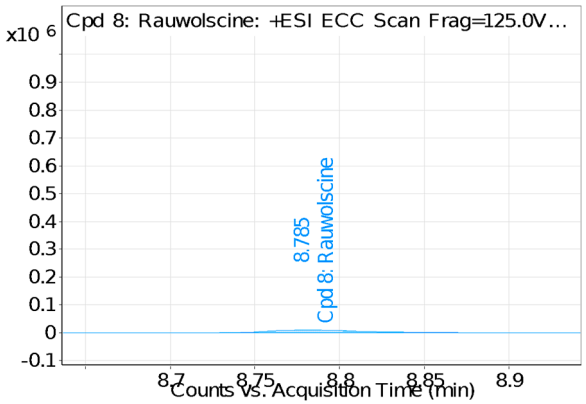


Compound iv: **Rauwolscine**

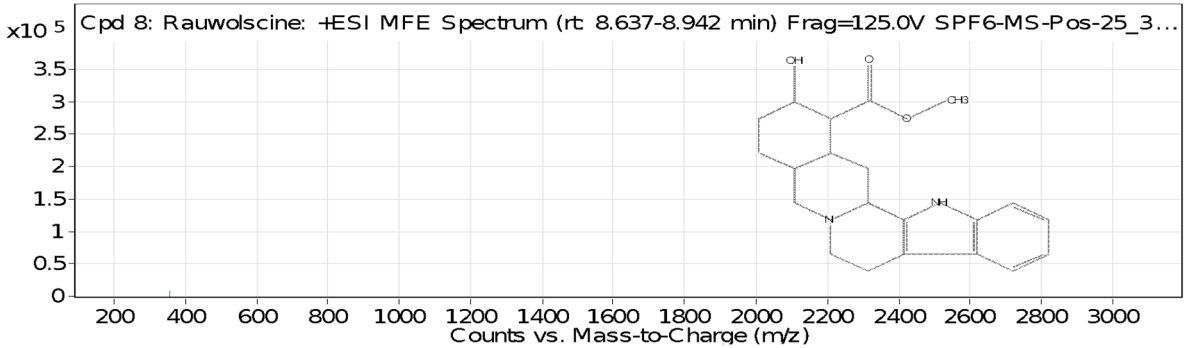
Compound Label	Name	*m/z*	RT	Algorithm	Mass
Cpd 8: Rauwolscine	**Rauwolscine**	355.2013	8.785	Find by Molecular Feature	354.1938

Compound Chromatograms





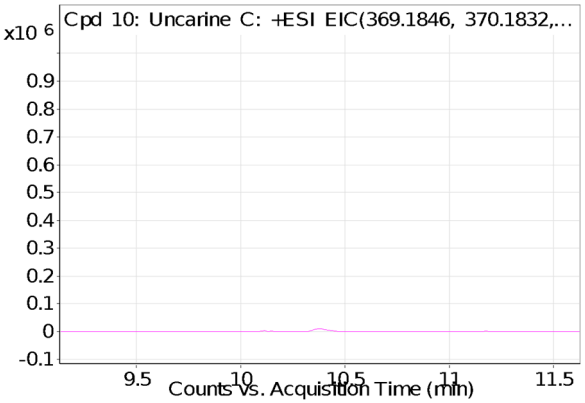
MFE MS Spectrum

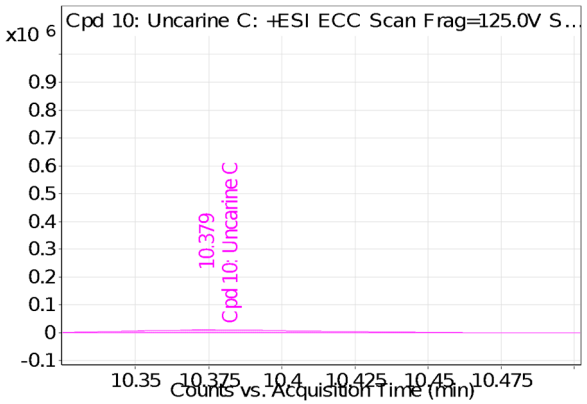


Compound v: **Uncarine C**

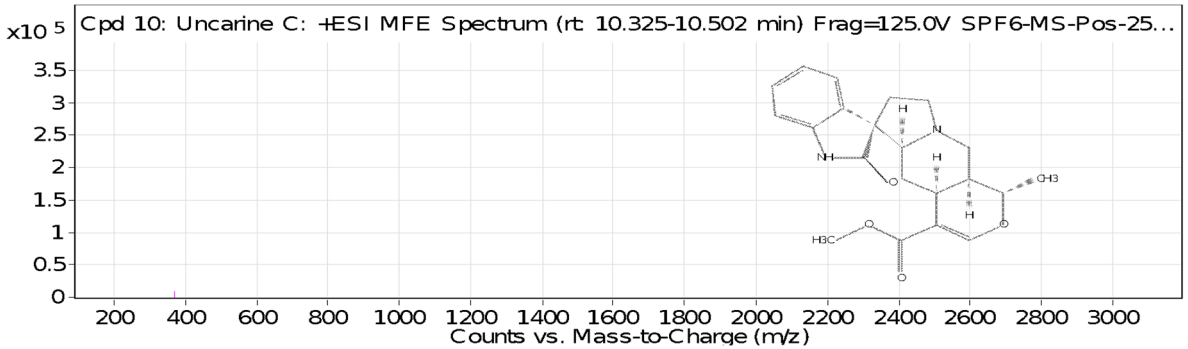
Compound Label	Name	*m/z*	RT	Algorithm	Mass
Cpd 10: Uncarine C	**Uncarine C**	369.1806	10.379	Find by Molecular Feature	368.1734

Compound Chromatograms





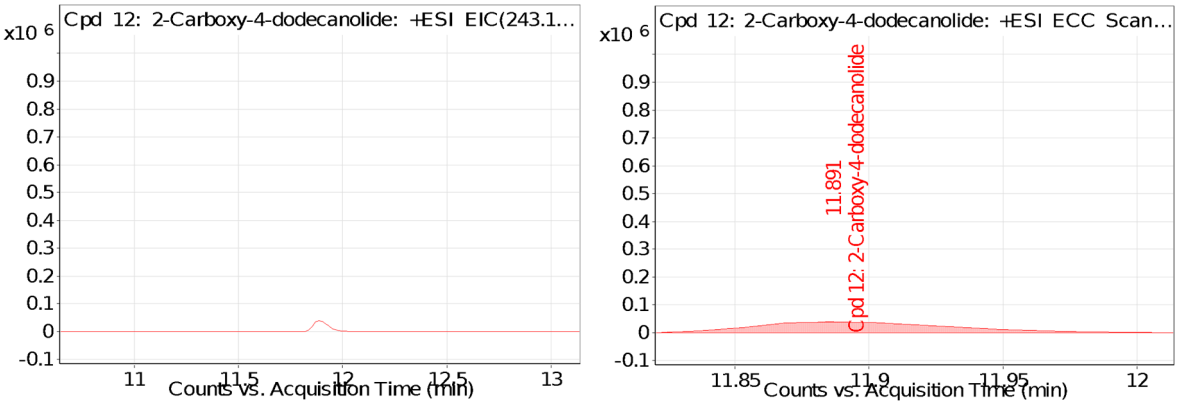
MFE MS Spectrum



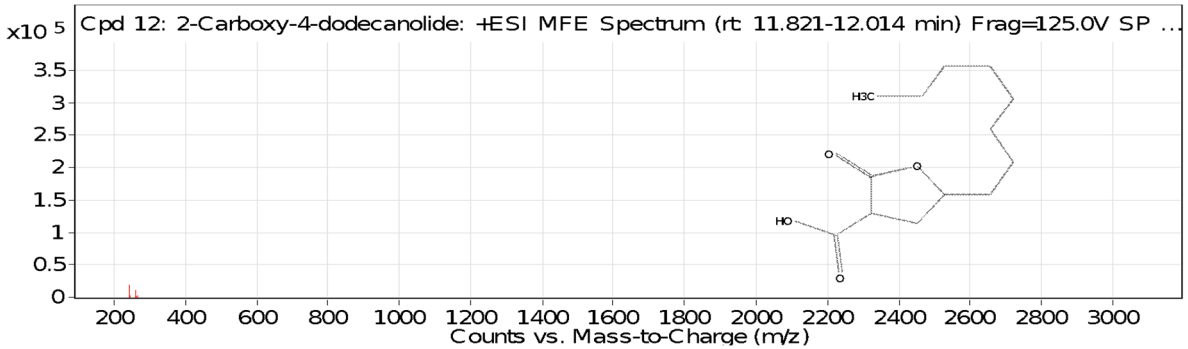
Compound vi: **2-Carboxy-4-dodecanolide**

Compound Label	Name	*m/z*	RT	Algorithm	Mass
Cpd 12: 2-Carboxy-4-dodecanolide	**2-Carboxy-4-dodecanolide**	243.1593	11.891	Find by Molecular Feature	242.152

Compound Chromatograms



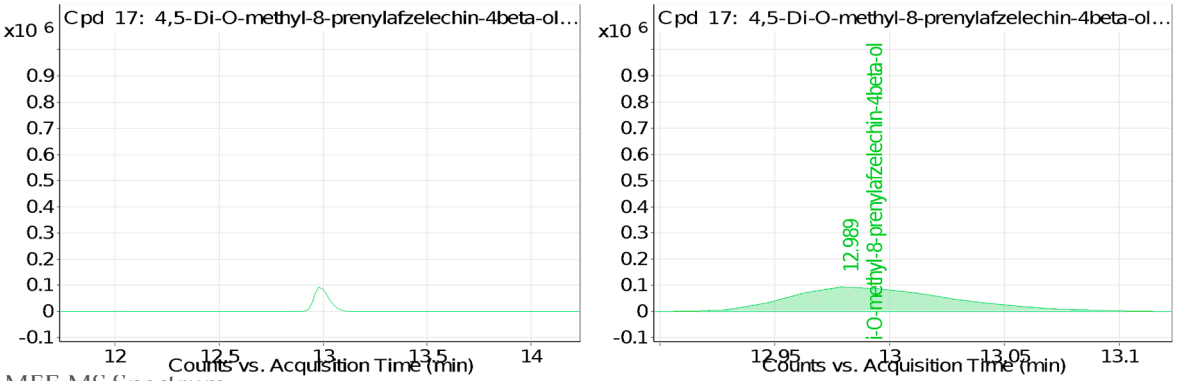
MFE MS Spectrum



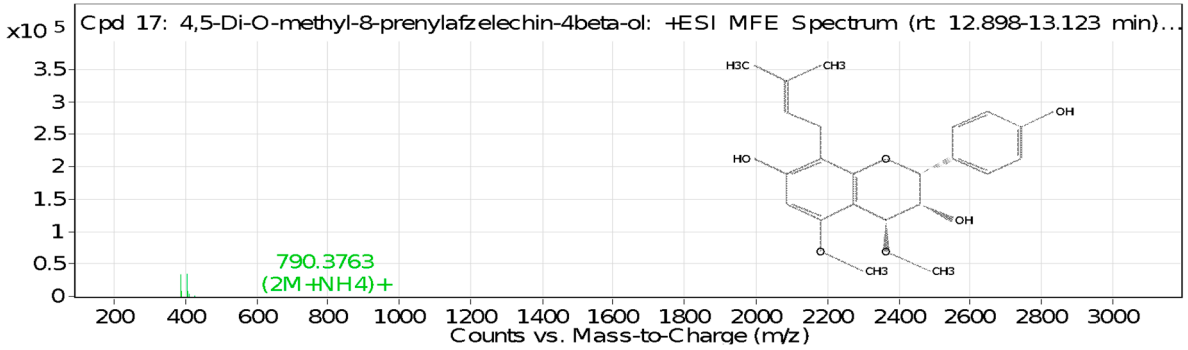
Compound vii: 4,5-Di-O-methyl-8-prenylafzelechin-4beta-ol

Compound Label	Name	*m/z*	RT	Algorithm	Mass
Cpd 17: 4,5-Di-O-methyl-8-prenylafzelechin-4beta-ol	**4,5-Di-O-methyl-8-prenylafzelechin-4beta-ol**	404.2063	12.989	Find by Molecular Feature	386.1734

Compound Chromatograms



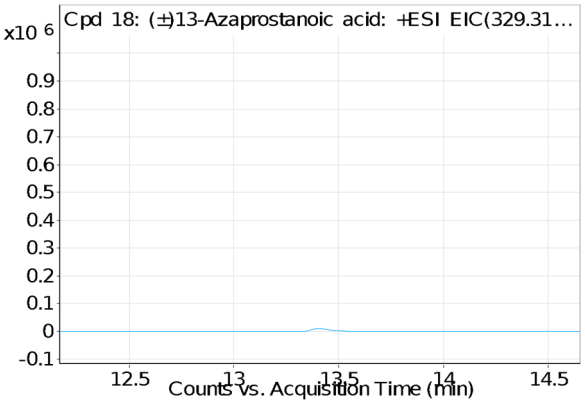
MFE MS Spectrum

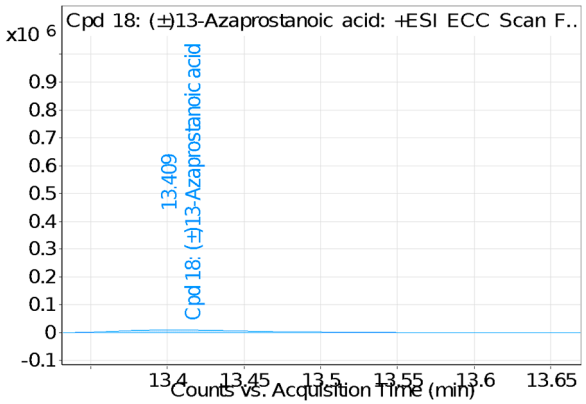


Compound viii: **(±)13-Azaprostanoic acid**

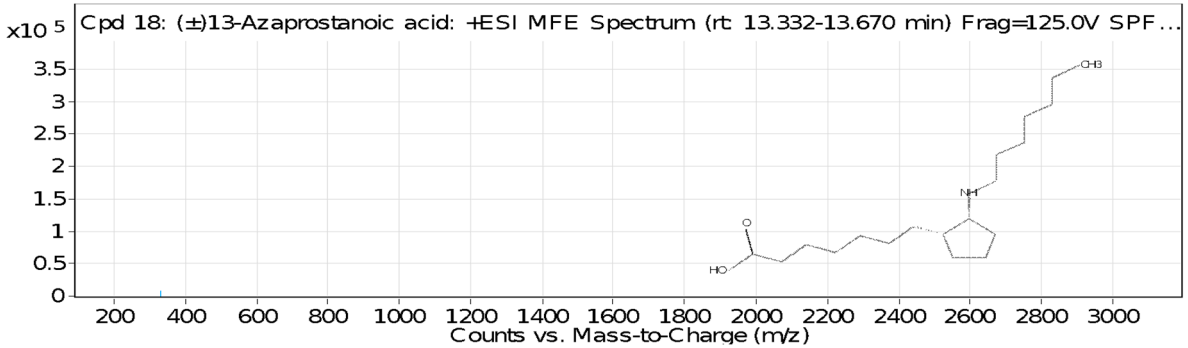
Compound Label	Name	*m/z*	RT	Algorithm	Mass
Cpd 18: (±)13-Azaprostanoic acid	**(±)13-Azaprostanoic acid**	329.3163	13.409	Find by Molecular Feature	311.2822

Compound Chromatograms





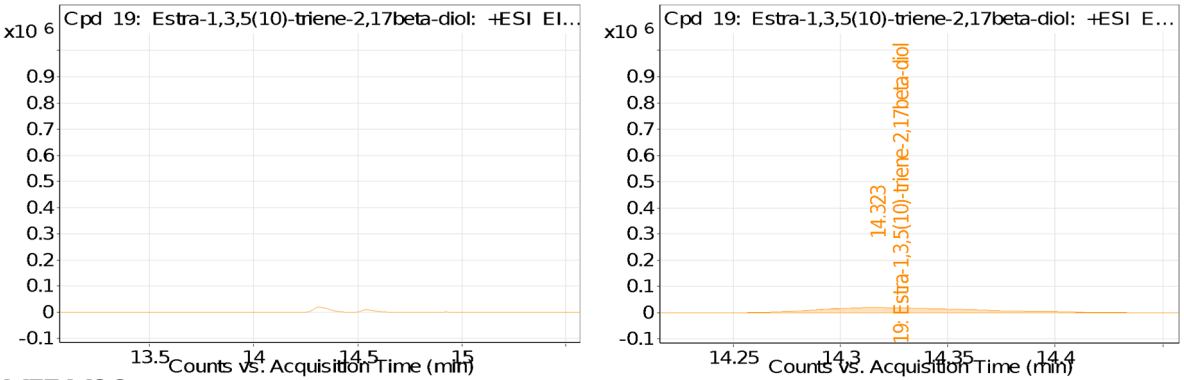
MFE MS Spectrum



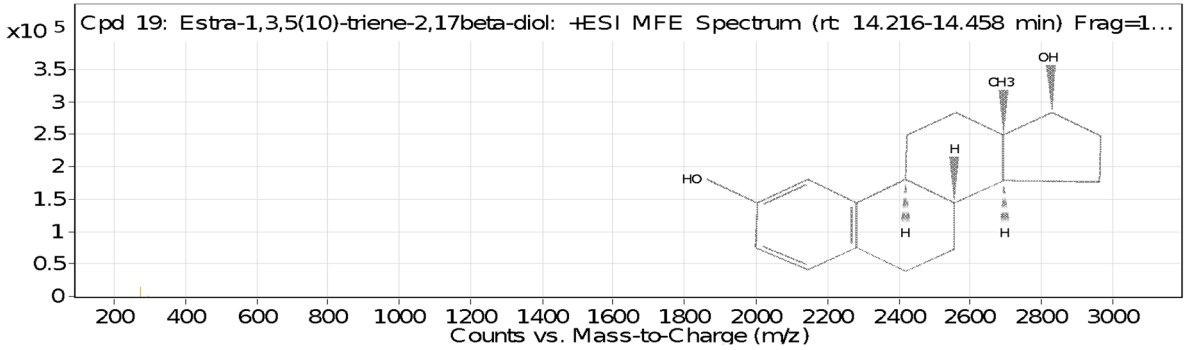
Compound ix: Estra-1,3,5(10)-triene-2,17beta-diol

Compound Label	Name	*m/z*	RT	Algorithm	Mass
Cpd 19: Estra-1,3,5(10)-triene-2,17beta-diol	**Estra-1,3,5(10)-triene-2,17beta-diol**	273.1848	14.323	Find by Molecular Feature	272.1774

Compound Chromatograms



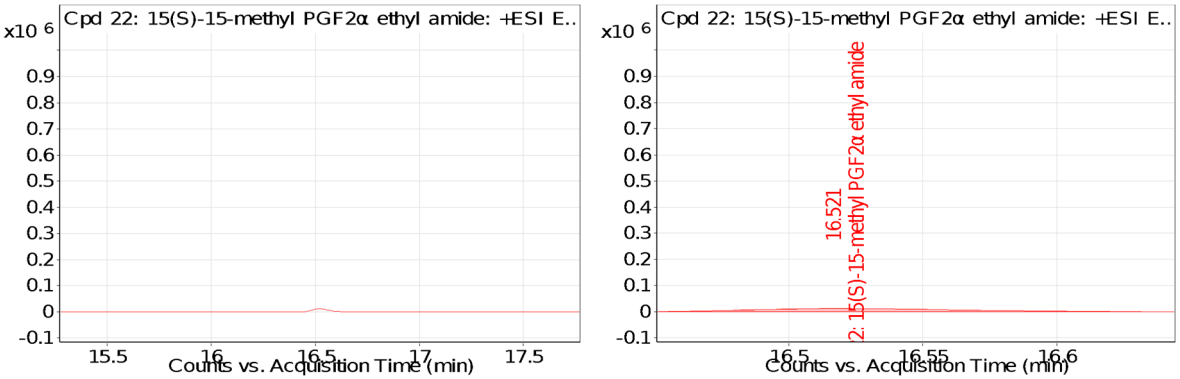
MFE MS Spectrum



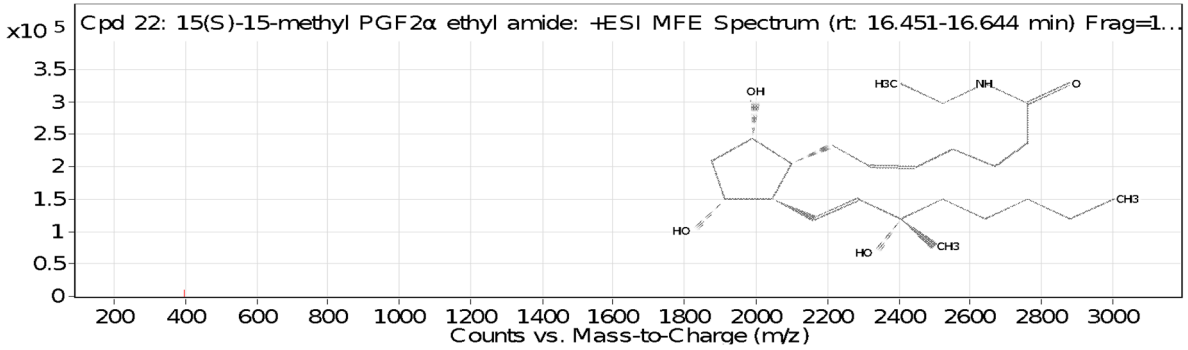
Compound x: **15(S)-15-methyl PGF2α ethyl amide**

Compound Label	Name	*m/z*	RT	Algorithm	Mass
Cpd 22: 15(S)-15-methyl PGF2α ethyl amide	**15(S)-15-methyl PGF2α ethyl amide**	396.3106	16.521	Find by Molecular Feature	395.3029

Compound Chromatograms



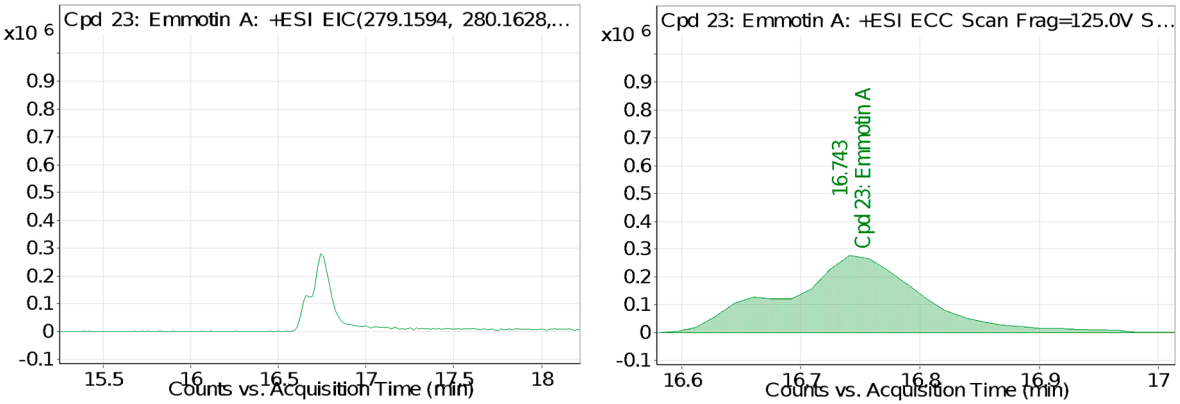
MFE MS Spectrum



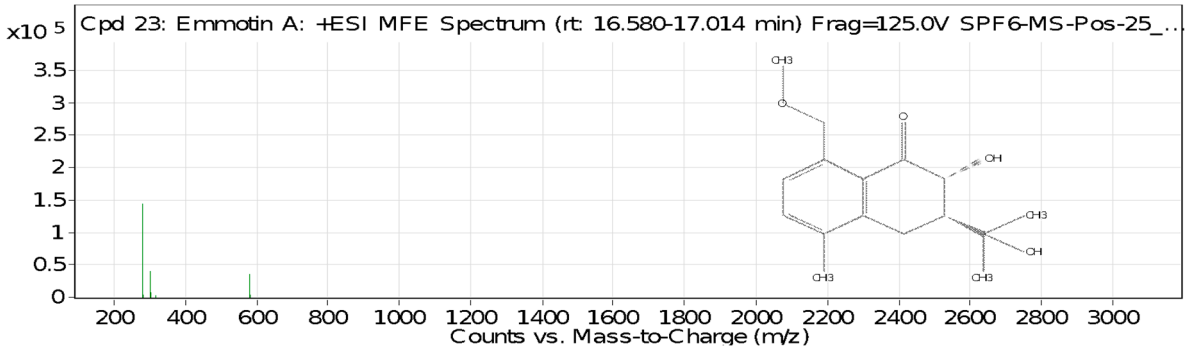
Compound xi: **Emmotin A**

Compound Label	Name	*m/z*	RT	Algorithm	Mass
Cpd 23: Emmotin A	**Emmotin A**	279.1594	16.743	Find by Molecular Feature	278.1521

Compound Chromatograms



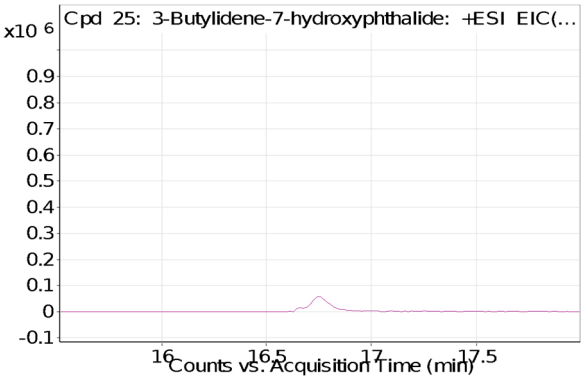
MFE MS Spectrum

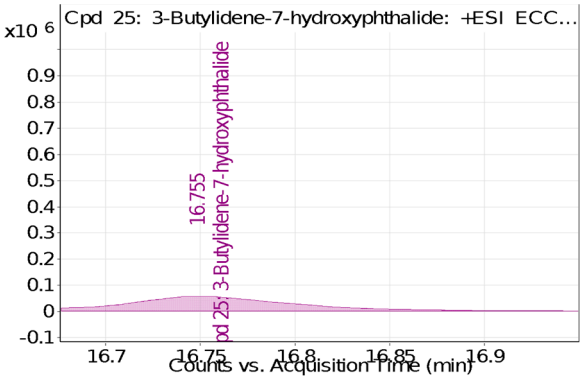


Compound xii: 3-Butylidene-7-hydroxyphthalide

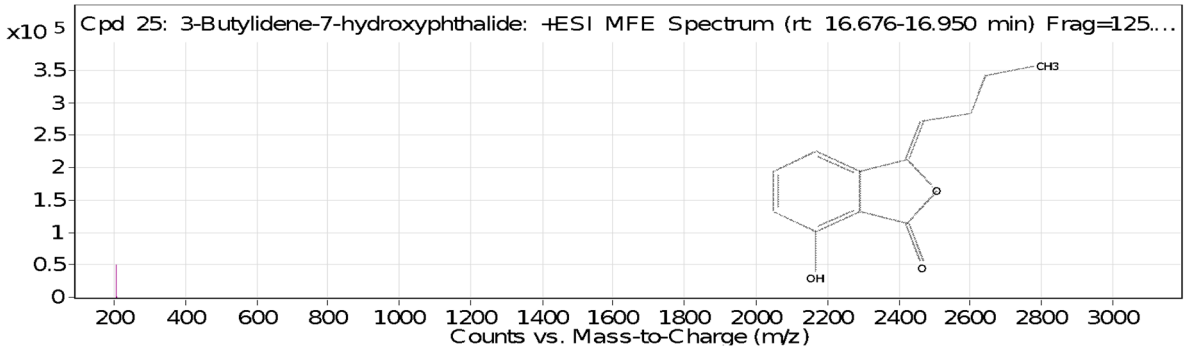
Compound Label	Name	*m/z*	RT	Algorithm	Mass
Cpd 25: 3-Butylidene-7-hydroxyphthalide	**3-Butylidene-7-hydroxyphthalide**	205.0858	16.755	Find by Molecular Feature	204.0786

Compound Chromatograms





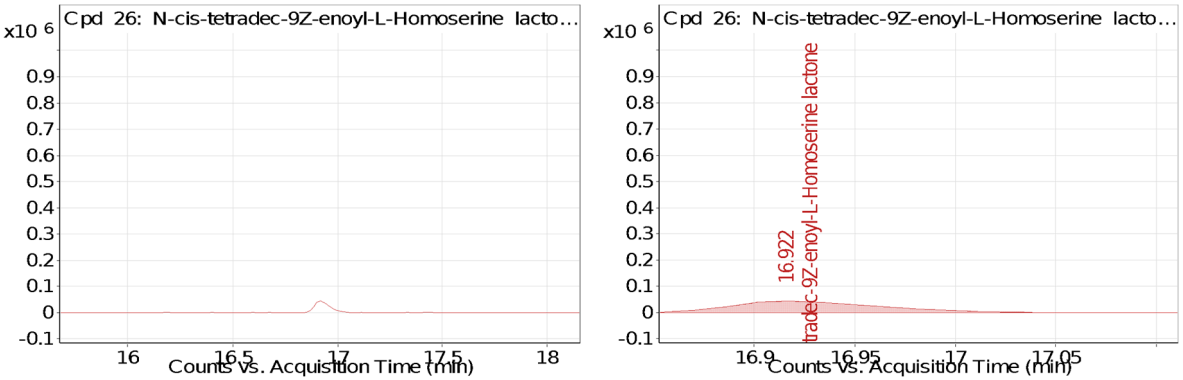
MFE MS Spectrum



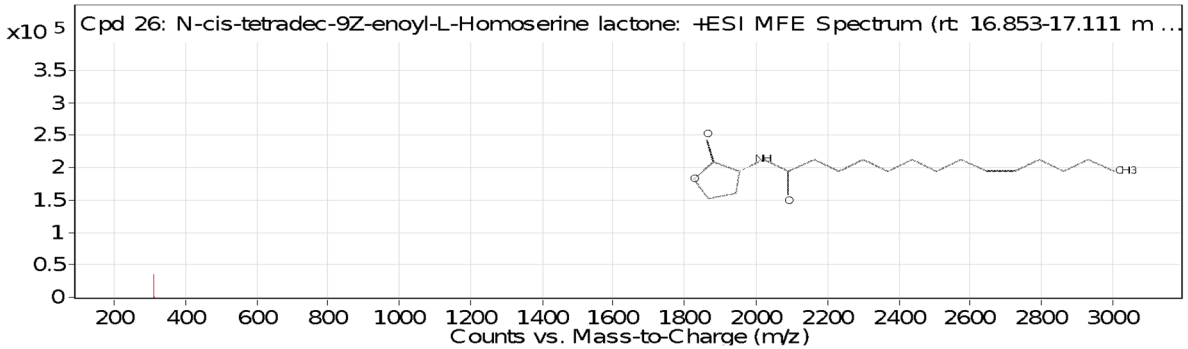
Compound xiii: N-cis-tetradec-9Z-enoyl-L-Homoserine lactone

Compound Label	Name	*m/z*	RT	Algorithm	Mass
Cpd 26: N-cis-tetradec-9Z-enoyl-L-Homoserine lactone	**N-cis-tetradec-9Z-enoyl-L-Homoserine lactone**	310.2374	16.922	Find by Molecular Feature	309.2303

Compound Chromatograms



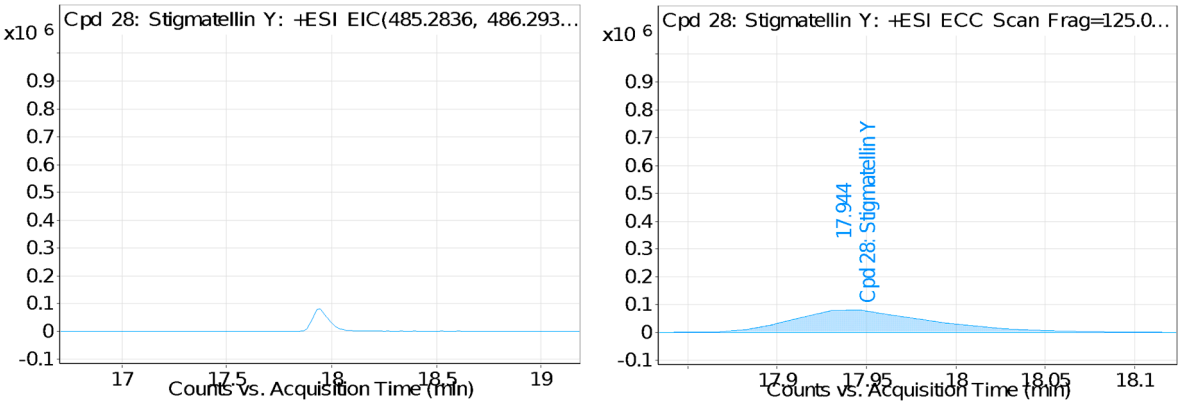
MFE MS Spectrum



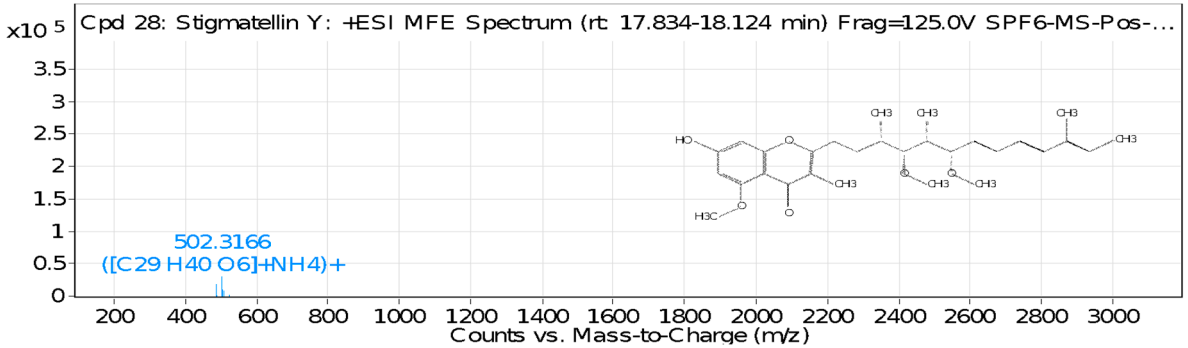
Compound xiv: **Stigmatellin Y**

Compound Label	Name	*m/z*	RT	Algorithm	Mass
Cpd 28: Stigmatellin Y	**Stigmatellin Y**	502.3166	17.944	Find by Molecular Feature	484.2826

Compound Chromatograms



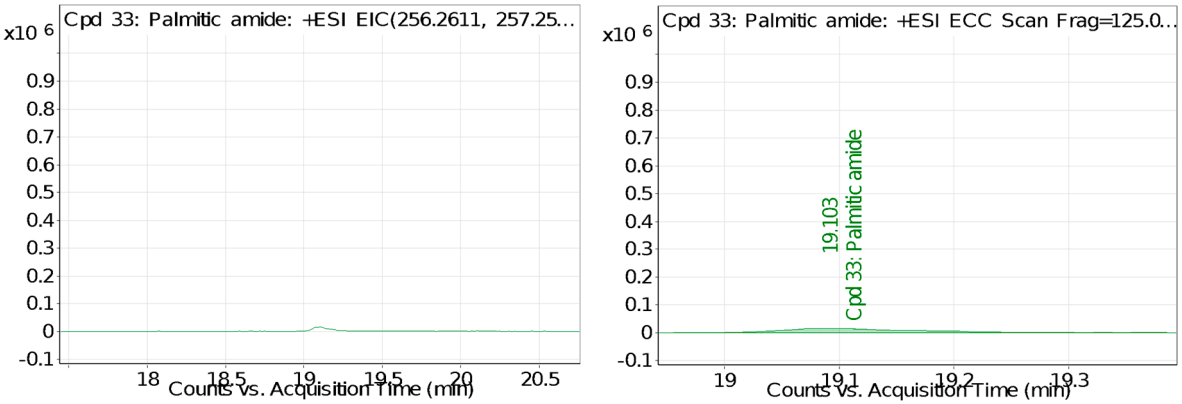
MFE MS Spectrum



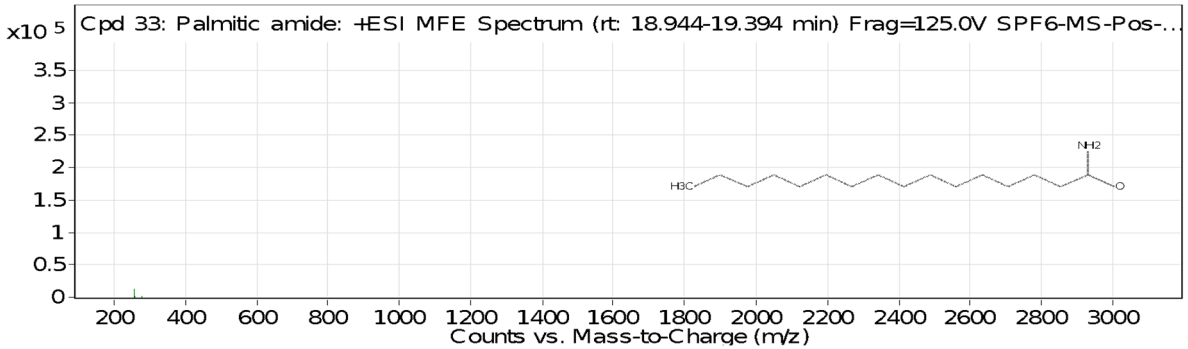
Compound xv: **Palmitic amide**

Compound Label	Name	*m/z*	RT	Algorithm	Mass
Cpd 33: Palmitic amide	**Palmitic amide**	256.2636	19.103	Find by Molecular Feature	255.2562

Compound Chromatograms



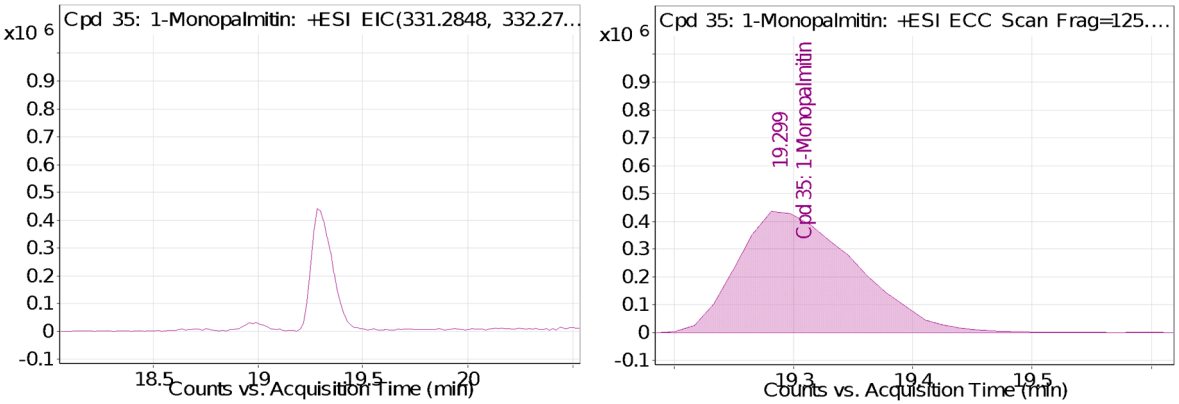
MFE MS Spectrum



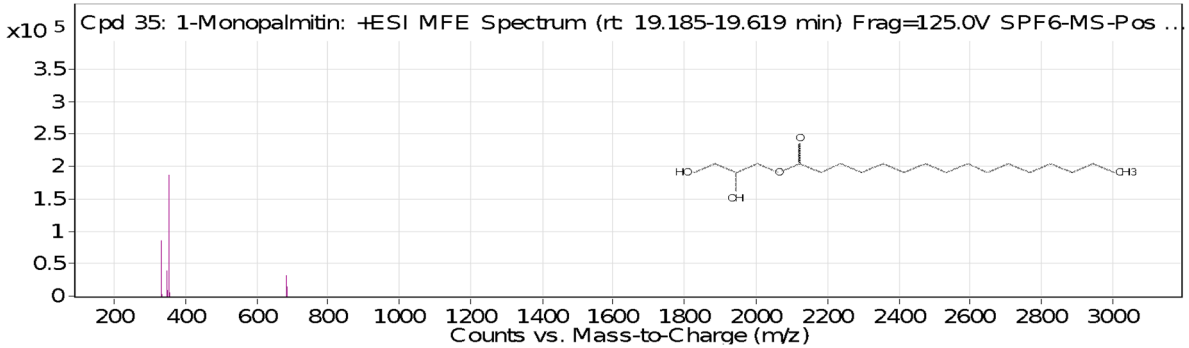
Compound xvi: **1-monopalmitin**

Compound Label	Name	*m/z*	RT	Algorithm	Mass
Cpd 35: 1-monopalmitin	**1-monopalmitin**	353.2669	19.299	Find by Molecular Feature	330.2773

Compound Chromatograms



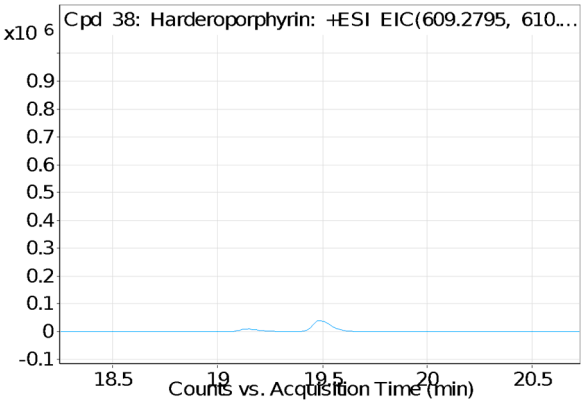
MFE MS Spectrum

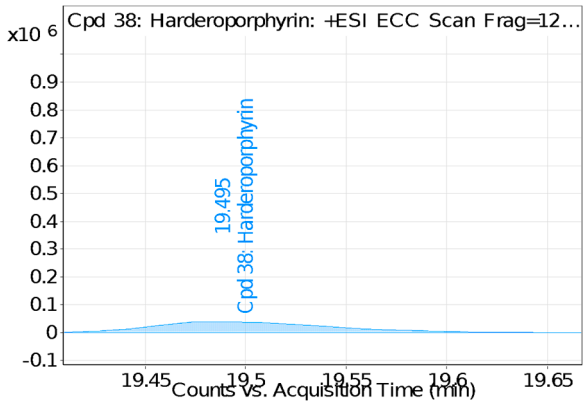


Compound xvii: **Harderoporphyrin**

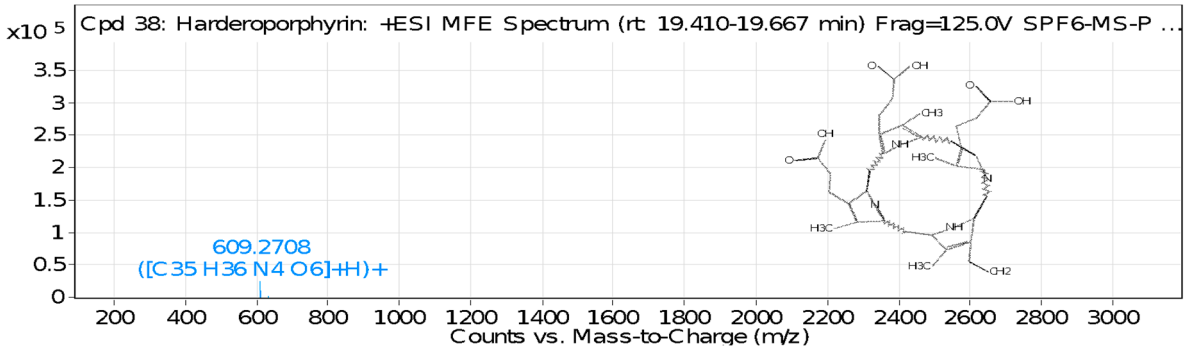
Compound Label	Name	*m/z*	RT	Algorithm	Mass
Cpd 38: Harderoporphyrin	**Harderoporphyrin**	609.2708	19.495	Find by Molecular Feature	608.2636

Compound Chromatograms





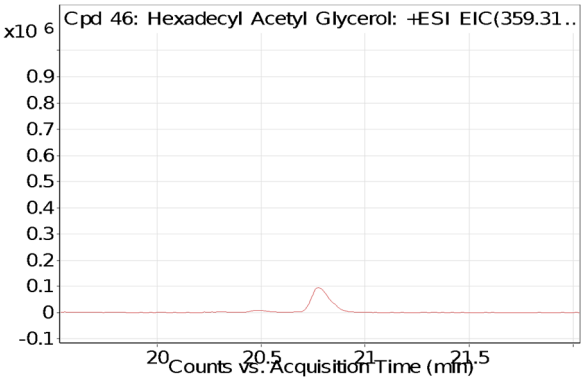
MFE MS Spectrum

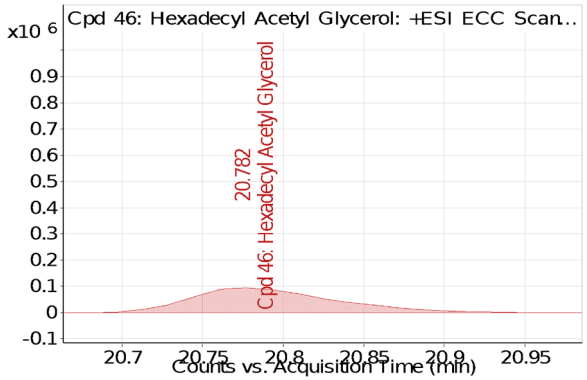


Compound xviii: **Hexadecyl acetyl glycerol**

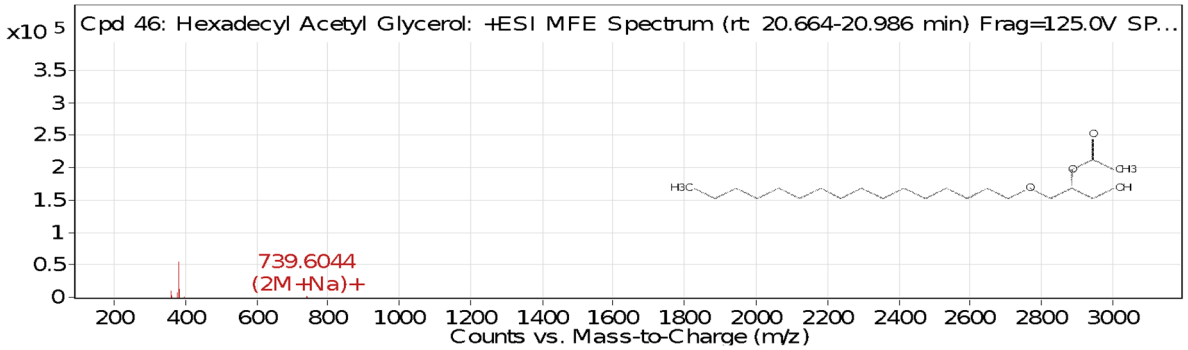
Compound Label	Name	*m/z*	RT	Algorithm	Mass
Cpd 46: Hexadecyl acetyl glycerol	**Hexadecyl acetyl glycerol**	381.2983	20.782	Find by Molecular Feature	358.3092

Compound Chromatograms





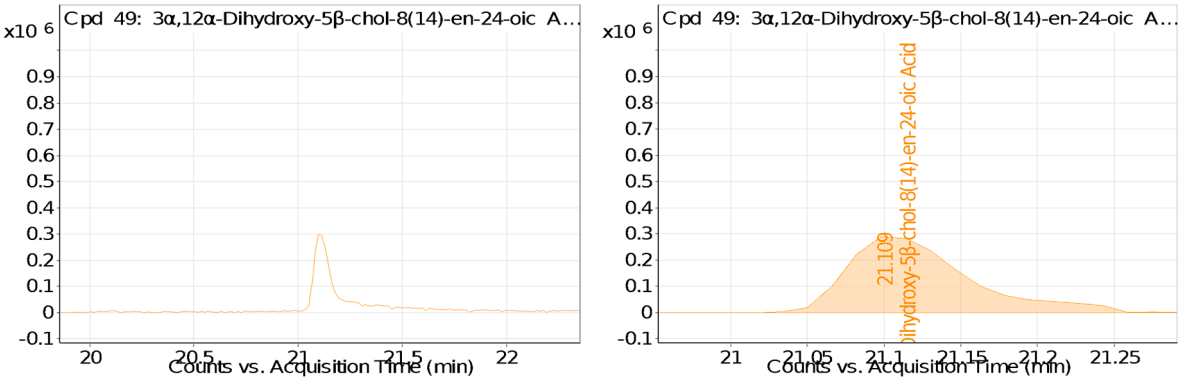
MFE MS Spectrum



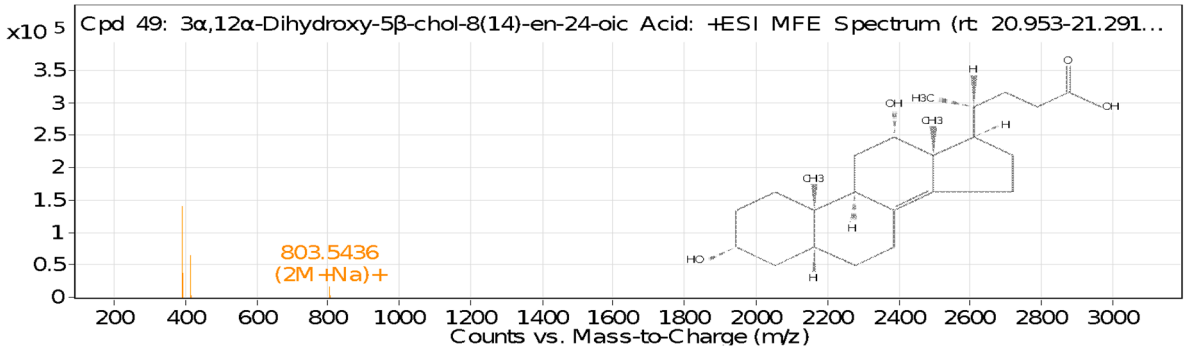
Compound xix: 3α,12α-Dihydroxy-5β-chol-8(14)-en-24-oic acid

Compound Label	Name	*m/z*	RT	Algorithm	Mass
Cpd 49: 3α,12α-Dihydroxy-5β-chol-8(14)-en-24-oic acid	**3α,12α-Dihydroxy-5β-chol-8(14)-en-24-oic acid**	391.2854	21.109	Find by Molecular Feature	390.278

Compound Chromatograms



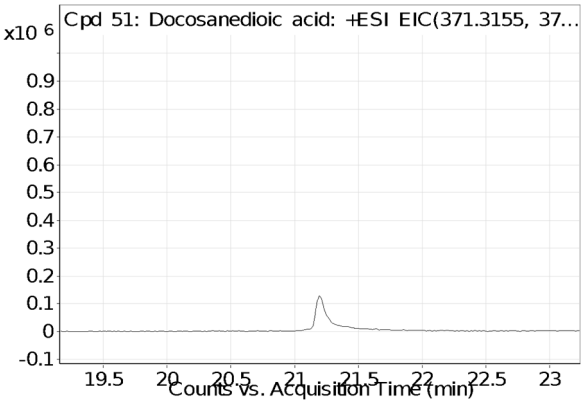
MFE MS Spectrum

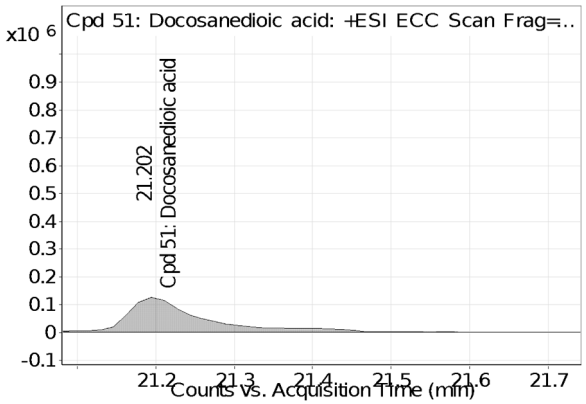


Compound xx: **Docosanedioic acid**

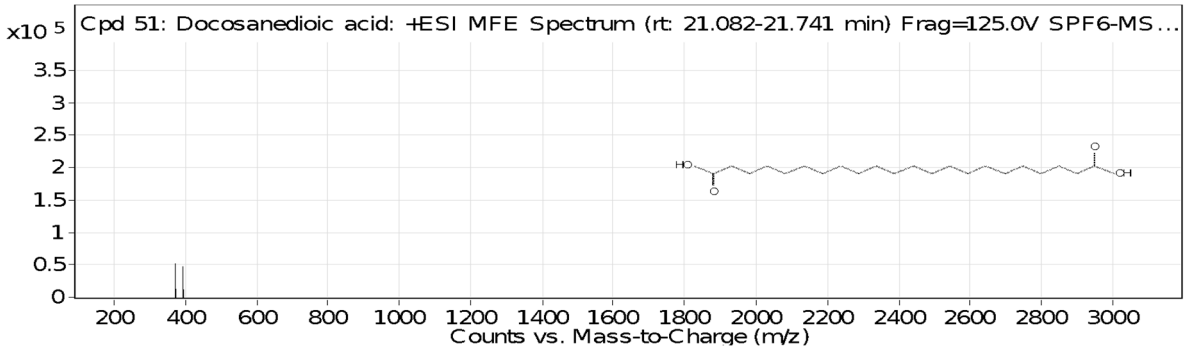
Compound Label	Name	*m/z*	RT	Algorithm	Mass
Cpd 51: Docosanedioic acid	**Docosanedioic acid**	371.3151	21.202	Find by Molecular Feature	370.3077

Compound Chromatograms





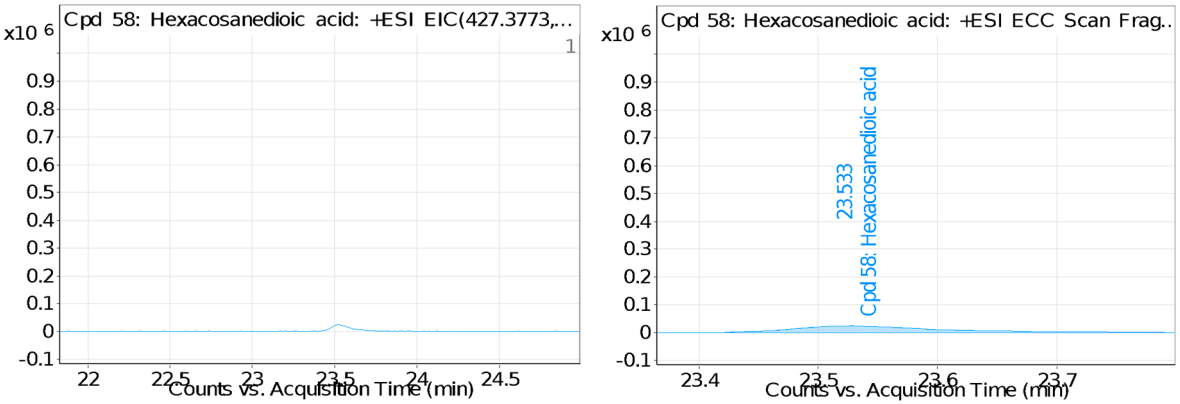
MFE MS Spectrum



Compound xxi: **Hexacosanedioic acid**

Compound Label	Name	*m/z*	RT	Algorithm	Mass
Cpd 58: Hexacosanedioic acid	**Hexacosanedioic acid**	449.3598	23.533	Find by Molecular Feature	426.3705

Compound Chromatograms



MFE MS Spectrum