

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU013025\
 Data File : VU063106.D
 Acq On : 30 Jan 2025 18:24
 Operator : MD/SY
 Sample : Q1148-05
 Misc : 10.00g/10.0mL/100uL5.0mL/MSVOA_U/MEOH
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 XA174

Quant Time: Jan 31 07:54:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM013025WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Jan 31 07:44:25 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Difluorobenzene	6.235	114	141402	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.409	117	148221	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.804	152	75224	50.000	ug/L	0.00

System Monitoring Compounds						
4) Vinyl Chloride-d3	1.592	65	51045	49.550	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	99.100%
7) Chloroethane-d5	1.866	69	19888	35.342	ug/L	-0.03
Spiked Amount	50.000	Range	70 - 130	Recovery	=	70.680%
11) 1,1-Dichloroethene-d2	2.531	63	60273	33.490	ug/L	-0.03
Spiked Amount	50.000	Range	60 - 125	Recovery	=	66.980%
21) 2-Butanone-d5	4.618	46	71992	108.274	ug/L	0.01
Spiked Amount	100.000	Range	40 - 130	Recovery	=	108.270%
24) Chloroform-d	5.046	84	95004	50.100	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.200%
26) 1,2-Dichloroethane-d4	5.686	65	52116	48.317	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.640%
32) Benzene-d6	5.708	84	180170	40.815	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	81.620%
36) 1,2-Dichloropropane-d6	6.676	67	57634	39.899	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	79.800%
41) Toluene-d8	7.885	98	165225	41.341	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	82.680%
43) trans-1,3-Dichloroprop...	8.171	79	28535	42.939	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	85.880%
47) 2-Hexanone-d5	8.631	63	69266	111.879	ug/L	0.01
Spiked Amount	100.000	Range	45 - 130	Recovery	=	111.880%
56) 1,1,2,2-Tetrachloroeth...	10.746	84	103248	48.735	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	97.460%
66) 1,2-Dichlorobenzene-d4	12.184	152	68836	47.514	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.020%

Target Compounds						Qvalue
13) Acetone	2.625	43	151839	365.170	ug/L	98
15) Methyl Acetate	2.943	43	14304	14.362	ug/L	96
16) Methylene chloride	3.020	84	108576	97.828	ug/L	98
17) trans-1,2-Dichloroethene	3.329	96	48063	48.770	ug/L	99
18) Methyl tert-butyl Ether	3.351	73	626949	206.034	ug/L	100
20) cis-1,2-Dichloroethene	4.644	96	130104	116.273	ug/L	97
22) 2-Butanone	4.698	43	75688	111.446	ug/L	91
27) 1,2-Dichloroethane	5.776	62	101326	76.055	ug/L	97
31) Carbon tetrachloride	5.505	117	231712	150.256	ug/L	100
33) Benzene	5.753	78	709777	149.052	ug/L	100
34) Trichloroethene	6.528	95	190113	147.567	ug/L	97
38) Bromodichloromethane	7.094	83	244436	157.890	ug/L	98
39) cis-1,3-Dichloropropene	7.595	75	93858	48.060	ug/L	100
40) 4-Methyl-2-pentanone	7.785	43	334533	214.252	ug/L	99
42) Toluene	7.956	91	652327	129.897	ug/L	99
45) 1,1,2-Trichloroethane	8.390	97	172694	138.773	ug/L	97
46) Tetrachloroethene	8.541	164	68272	74.999	ug/L	99
48) 2-Hexanone	8.679	43	241376	202.911	ug/L	99
49) Dibromochloromethane	8.801	129	98592	78.186	ug/L	99

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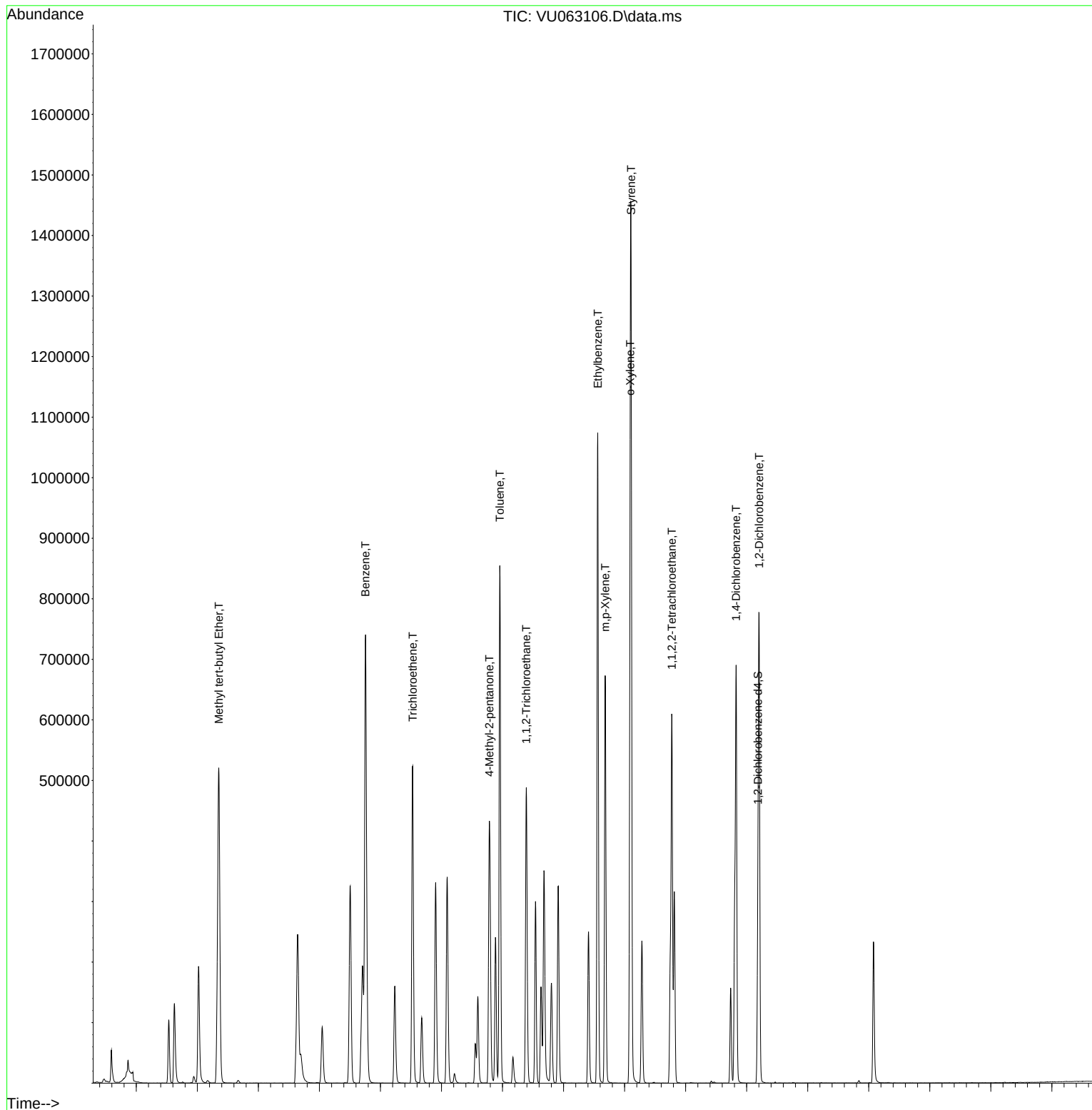
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 1,2-Dibromoethane	8.911	107	233403	173.637	ug/L	97
52) Ethylbenzene	9.560	91	786012	144.616	ug/L	99
53) m,p-Xylene	9.682	106	197449	97.297	ug/L	99
54) o-Xylene	10.091	106	184992	90.462	ug/L	97
55) Styrene	10.107	104	602680	173.433	ug/L	98
57) 1,1,2,2-Tetrachloroethane	10.772	83	318699	145.050	ug/L	100
59) Bromoform	10.283	173	111534	110.707	ug/L	100
60) 1,2,3-Trichloropropane	10.814	75	138728	86.508	ug/L	98
64) 1,3-Dichlorobenzene	11.737	146	66979	27.237	ug/L	98
65) 1,4-Dichlorobenzene	11.827	146	273147	107.189	ug/L	99
67) 1,2-Dichlorobenzene	12.203	146	307210	126.634	ug/L	99

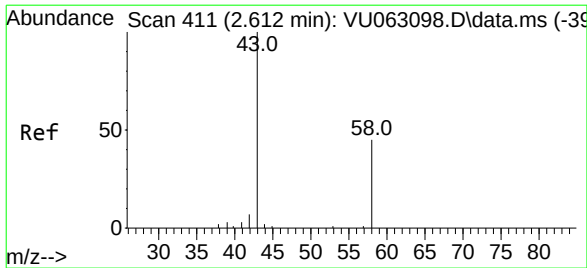
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#13

Acetone

Concen: 365.170 ug/L

RT: 2.625 min Scan# 411

Delta R.T. 0.013 min

Lab File: VU063106.D

Acq: 30 Jan 2025 18:24

Instrument :

MSVOA_U

ClientSampleId :

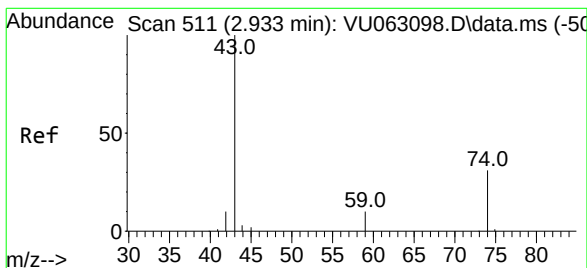
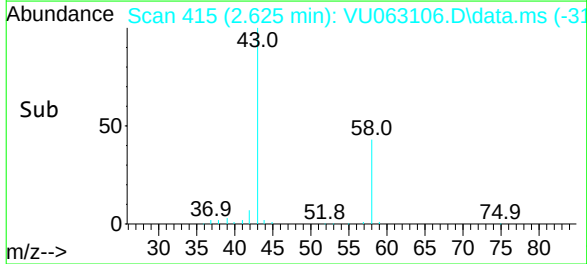
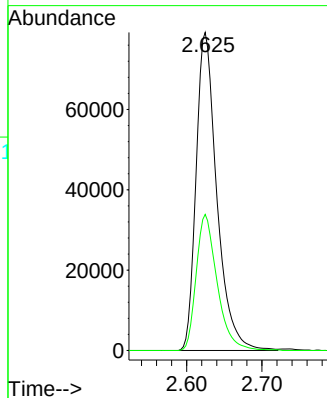
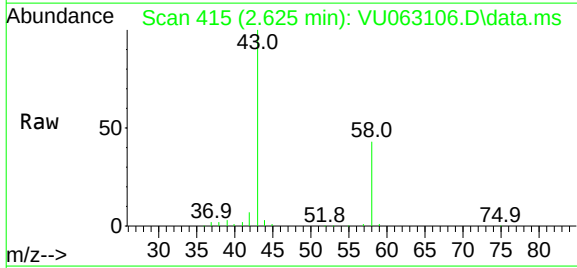
XA174

Tgt Ion: 43 Resp: 151839

Ion Ratio Lower Upper

43 100

58 43.0 0.0 88.8



#15

Methyl Acetate

Concen: 14.362 ug/L

RT: 2.943 min Scan# 514

Delta R.T. 0.010 min

Lab File: VU063106.D

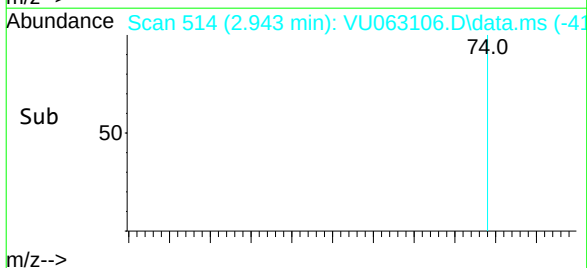
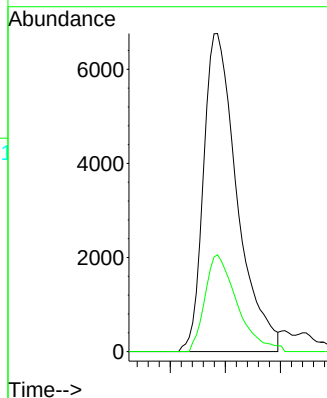
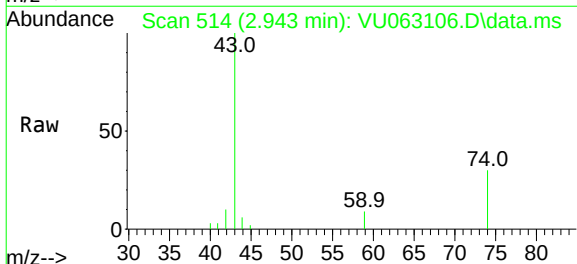
Acq: 30 Jan 2025 18:24

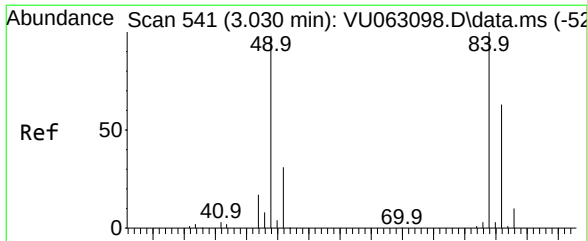
Tgt Ion: 43 Resp: 14304

Ion Ratio Lower Upper

43 100

74 29.0 25.0 37.6





#16

Methylene chloride

Concen: 97.828 ug/L

RT: 3.020 min Scan# 531

Delta R.T. -0.010 min

Lab File: VU063106.D

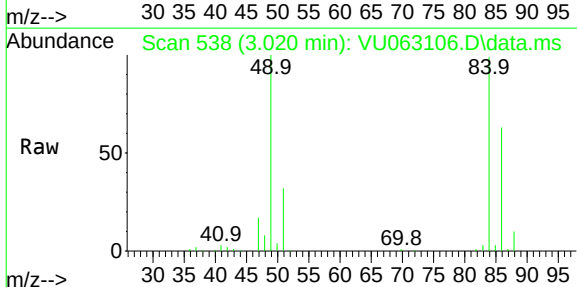
Acq: 30 Jan 2025 18:24

Instrument :

MSVOA_U

ClientSampleId :

XA174



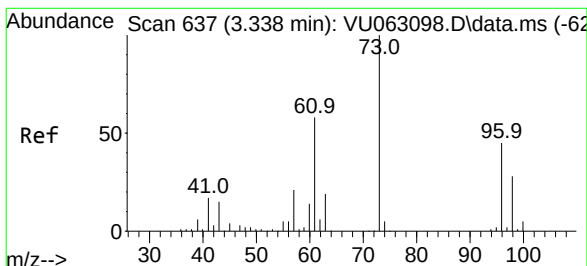
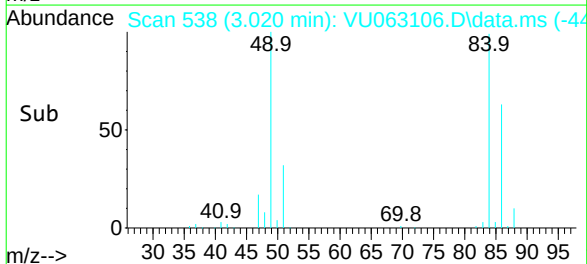
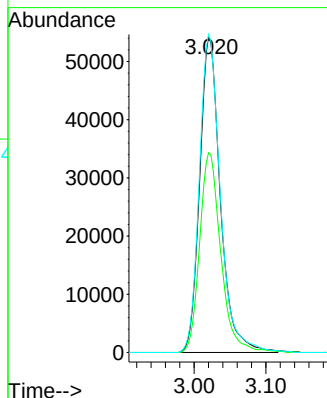
Tgt Ion: 84 Resp: 108576

Ion Ratio Lower Upper

84 100

86 63.2 44.2 82.0

49 100.7 68.4 127.0



#17

trans-1,2-Dichloroethene

Concen: 48.770 ug/L

RT: 3.329 min Scan# 634

Delta R.T. -0.010 min

Lab File: VU063106.D

Acq: 30 Jan 2025 18:24

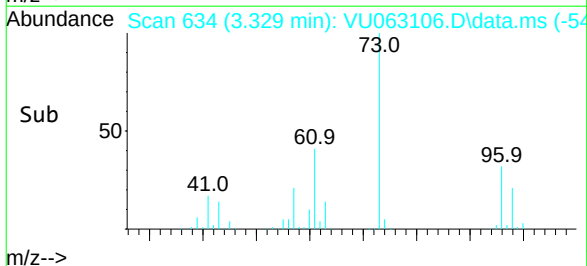
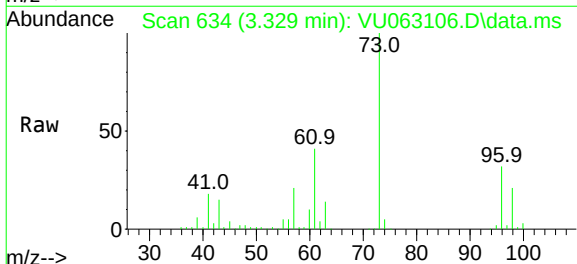
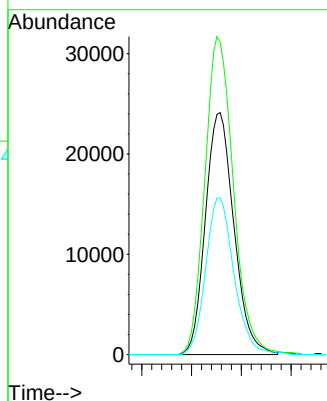
Tgt Ion: 96 Resp: 48063

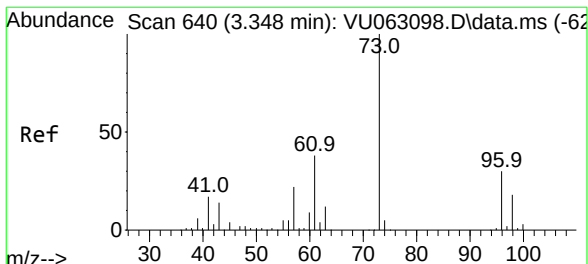
Ion Ratio Lower Upper

96 100

61 129.1 91.1 169.3

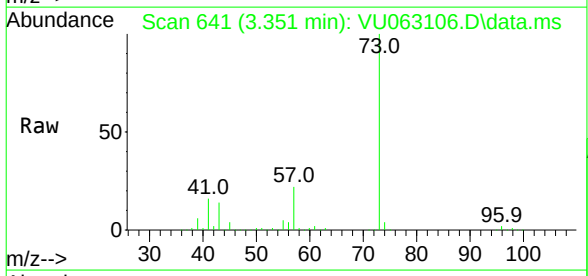
98 64.7 44.0 81.8





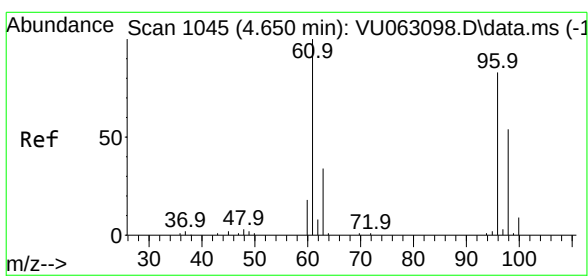
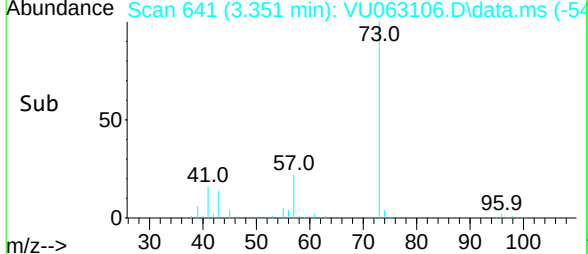
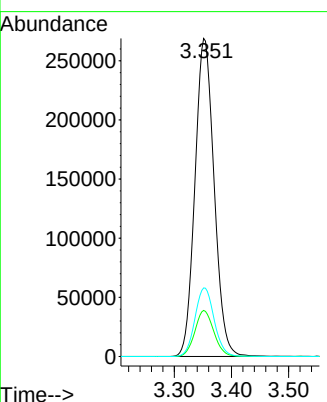
#18
Methyl tert-butyl Ether
Concen: 206.034 ug/L
RT: 3.351 min Scan# 641
Delta R.T. 0.003 min
Lab File: VU063106.D
Acq: 30 Jan 2025 18:24

Instrument :
MSVOA_U
ClientSampleId :
XA174



Tgt Ion: 73 Resp: 626949

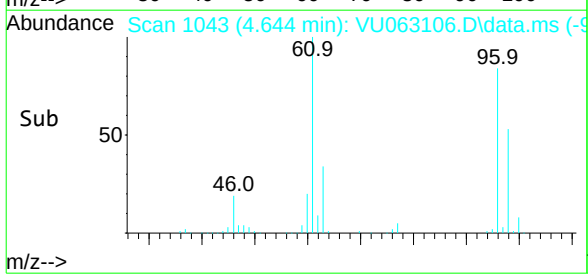
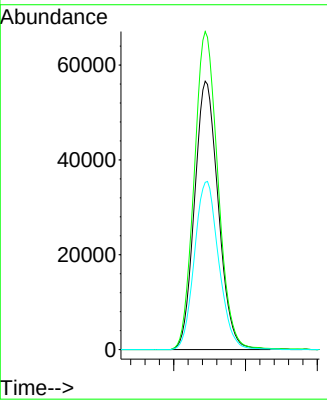
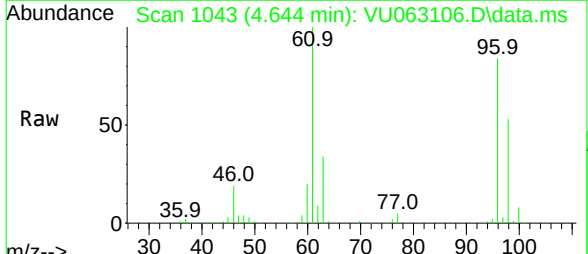
Ion	Ratio	Lower	Upper
73	100		
43	14.3	11.4	17.2
57	21.6	17.2	25.8

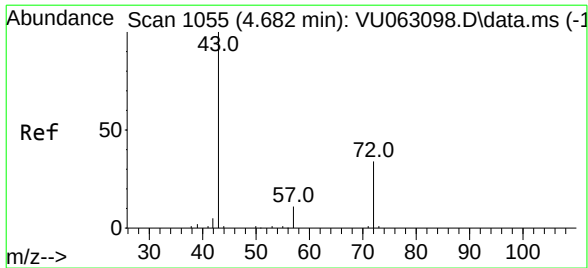


#20
cis-1,2-Dichloroethene
Concen: 116.273 ug/L
RT: 4.644 min Scan# 1043
Delta R.T. -0.006 min
Lab File: VU063106.D
Acq: 30 Jan 2025 18:24

Tgt Ion: 96 Resp: 130104

Ion	Ratio	Lower	Upper
96	100		
61	118.5	84.4	156.8
98	62.3	46.0	85.4

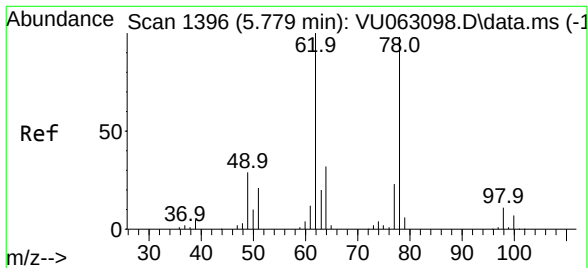
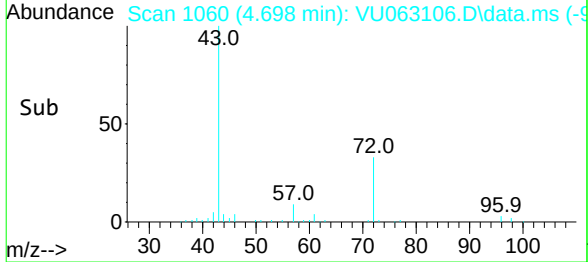
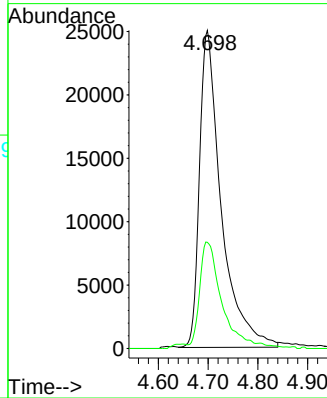
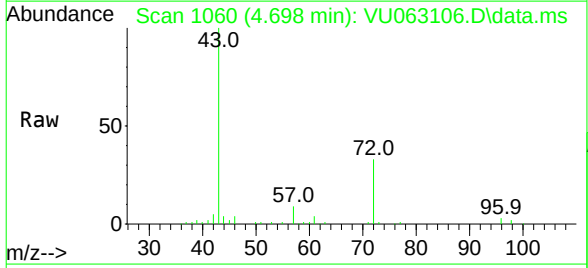




#22
2-Butanone
Concen: 111.446 ug/L
RT: 4.698 min Scan# 1055
Delta R.T. 0.016 min
Lab File: VU063106.D
Acq: 30 Jan 2025 18:24

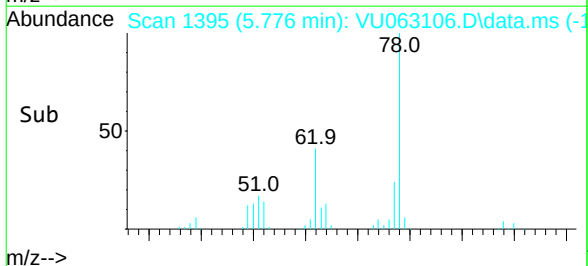
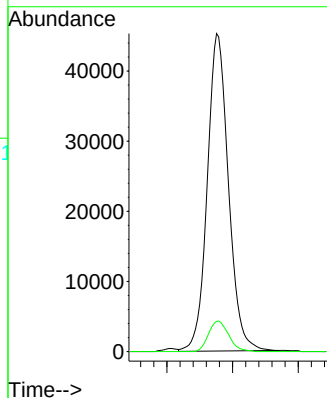
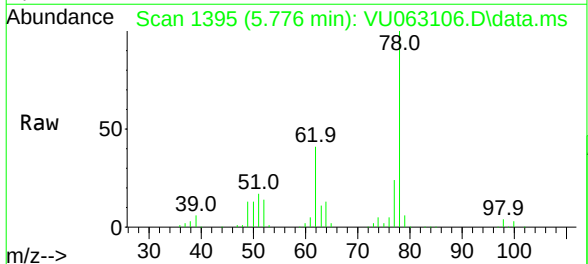
Instrument :
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ClientSampleId :
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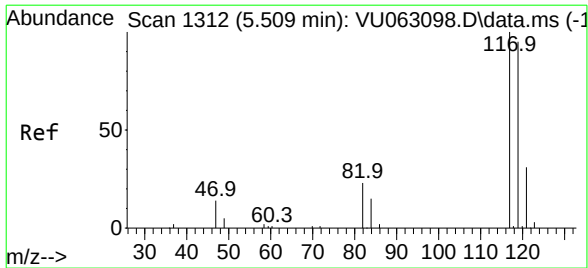
Tgt Ion: 43 Resp: 75688
Ion Ratio Lower Upper
43 100
72 30.1 17.5 52.6



#27
1,2-Dichloroethane
Concen: 76.055 ug/L
RT: 5.776 min Scan# 1395
Delta R.T. -0.003 min
Lab File: VU063106.D
Acq: 30 Jan 2025 18:24

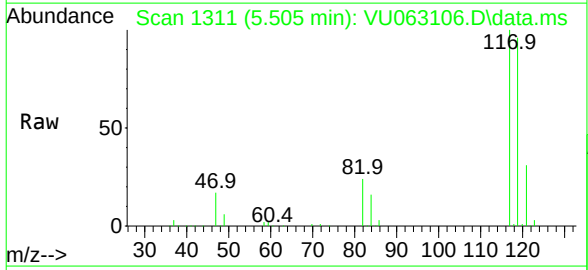
Tgt Ion: 62 Resp: 101326
Ion Ratio Lower Upper
62 100
98 9.5 8.5 12.7



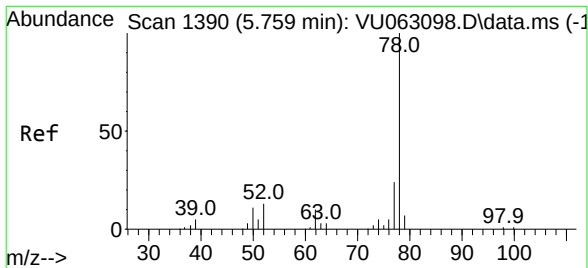
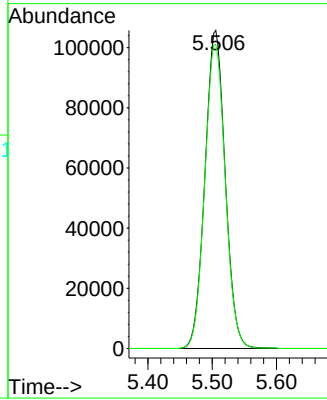
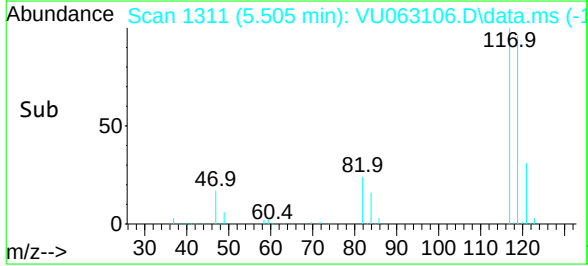


#31
Carbon tetrachloride
Concen: 150.256 ug/L
RT: 5.505 min Scan# 1312
Delta R.T. -0.003 min
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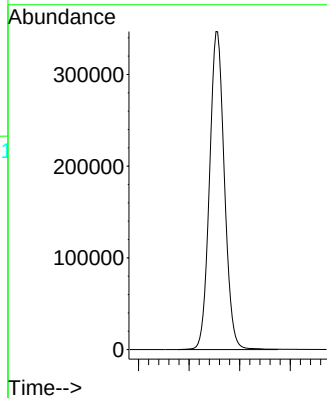
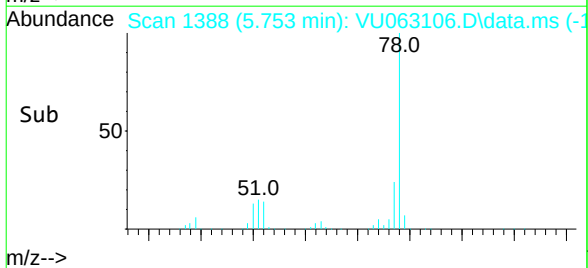
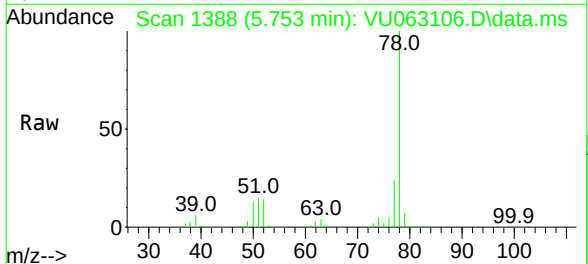


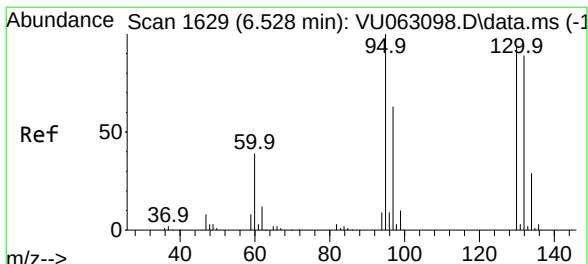
Tgt Ion:117 Resp: 231712
Ion Ratio Lower Upper
117 100
119 97.0 77.7 116.5



#33
Benzene
Concen: 149.052 ug/L
RT: 5.753 min Scan# 1388
Delta R.T. -0.006 min
Lab File: VU063106.D
Acq: 30 Jan 2025 18:24

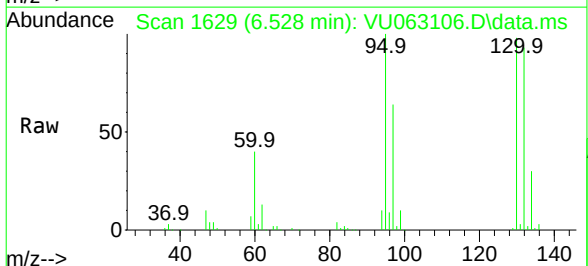
Tgt Ion: 78 Resp: 709777



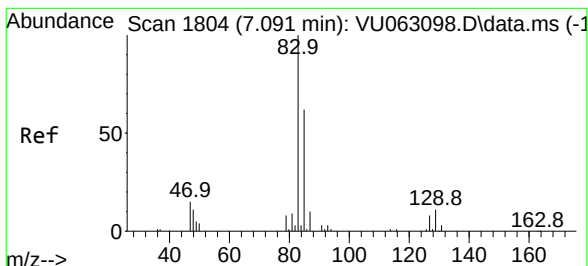
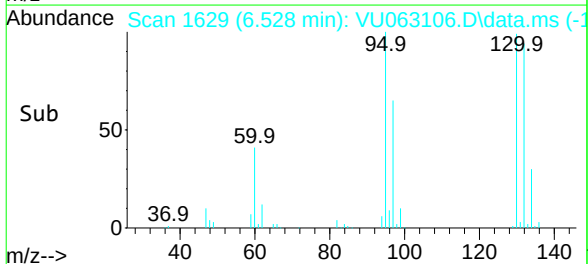
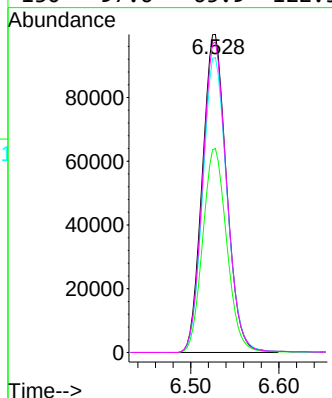


#34
 Trichloroethene
 Concen: 147.567 ug/L
 RT: 6.528 min Scan# 16
 Delta R.T. 0.000 min
 Lab File: VU063106.D
 Acq: 30 Jan 2025 18:24

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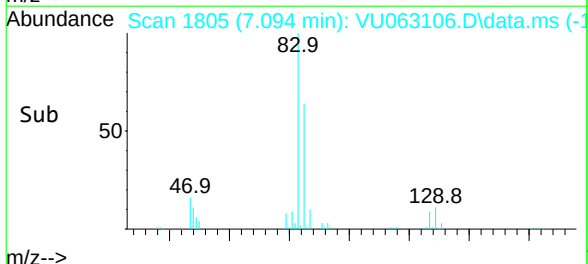
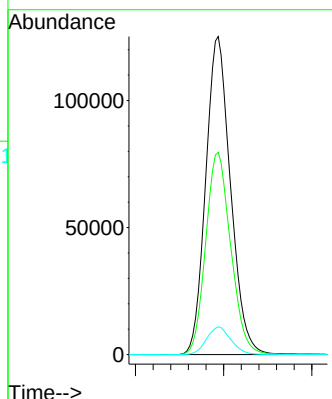
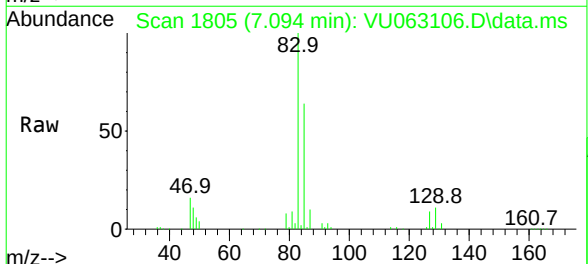


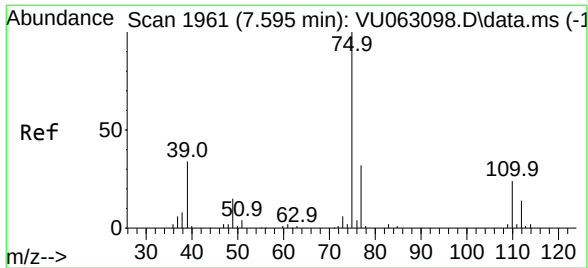
Tgt Ion:	95	Resp:	190113
Ion	Ratio	Lower	Upper
95	100		
97	64.1	44.3	82.3
132	92.7	62.4	116.0
130	97.6	65.9	122.3



#38
 Bromodichloromethane
 Concen: 157.890 ug/L
 RT: 7.094 min Scan# 1805
 Delta R.T. 0.003 min
 Lab File: VU063106.D
 Acq: 30 Jan 2025 18:24

Tgt Ion:	83	Resp:	244436
Ion	Ratio	Lower	Upper
83	100		
85	63.6	43.5	80.9
127	8.7	6.5	9.7

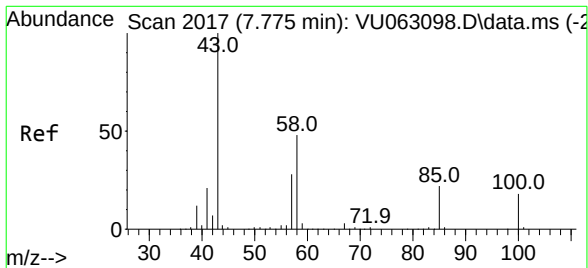
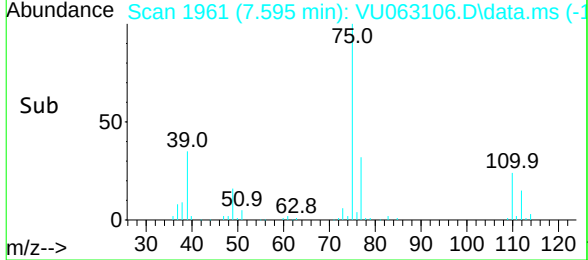
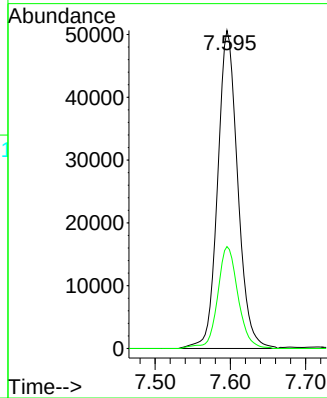
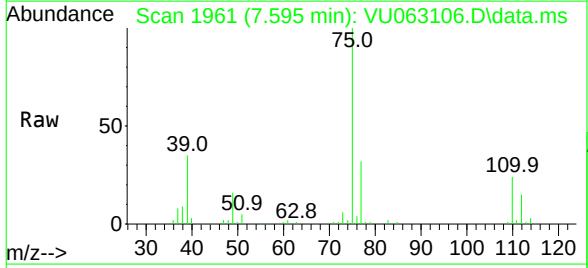




#39
 cis-1,3-Dichloropropene
 Concen: 48.060 ug/L
 RT: 7.595 min Scan# 1961
 Delta R.T. 0.000 min
 Lab File: VU063106.D
 Acq: 30 Jan 2025 18:24

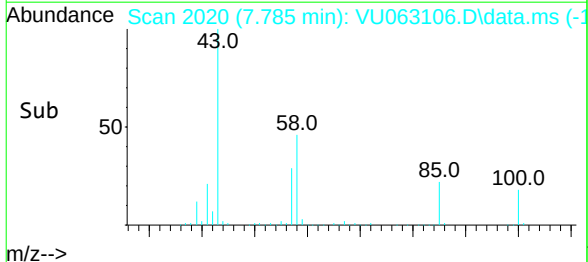
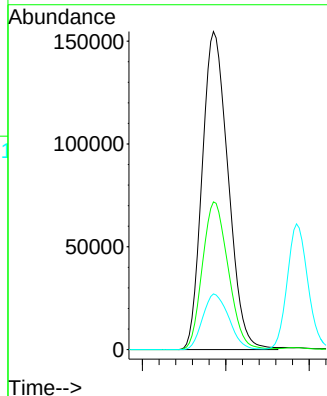
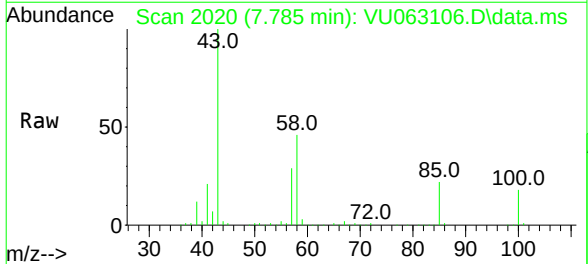
Instrument :
 MSVOA_U
 ClientSampleId :
 XA174

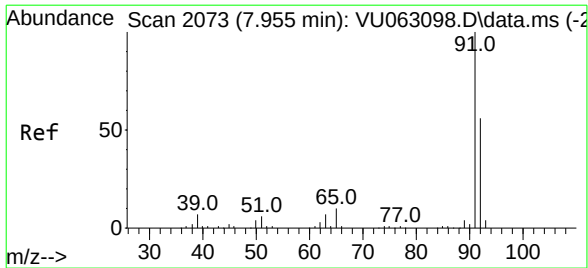
Tgt Ion: 75 Resp: 93858
 Ion Ratio Lower Upper
 75 100
 77 32.0 22.5 41.9



#40
 4-Methyl-2-pentanone
 Concen: 214.252 ug/L
 RT: 7.785 min Scan# 2020
 Delta R.T. 0.010 min
 Lab File: VU063106.D
 Acq: 30 Jan 2025 18:24

Tgt Ion: 43 Resp: 334533
 Ion Ratio Lower Upper
 43 100
 58 46.2 37.5 56.3
 100 17.6 14.3 21.5

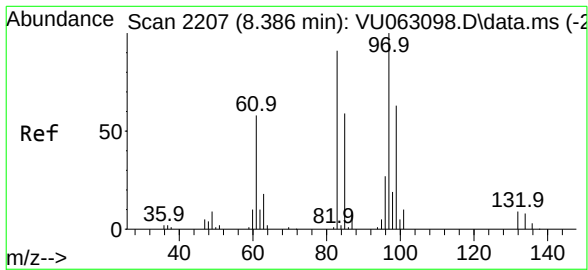
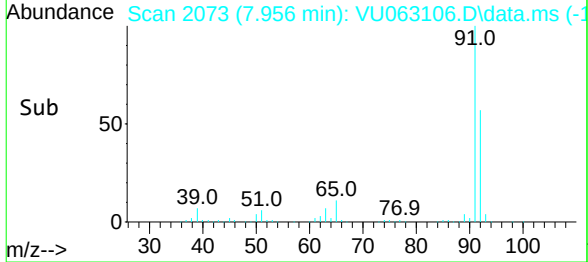
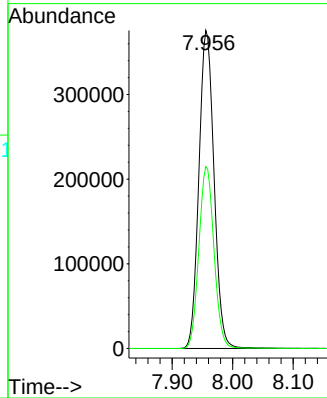
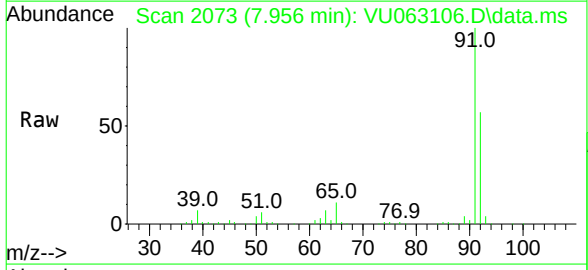




#42
Toluene
Concen: 129.897 ug/L
RT: 7.956 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VU063106.D
Acq: 30 Jan 2025 18:24

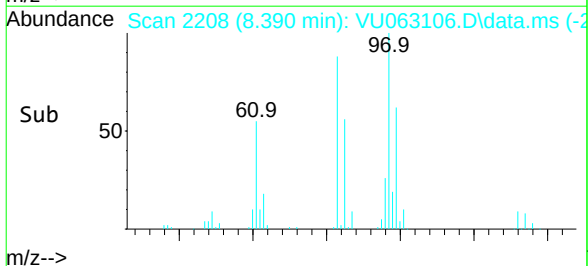
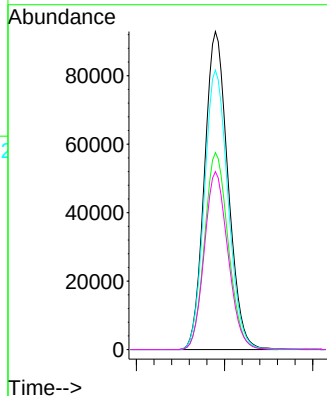
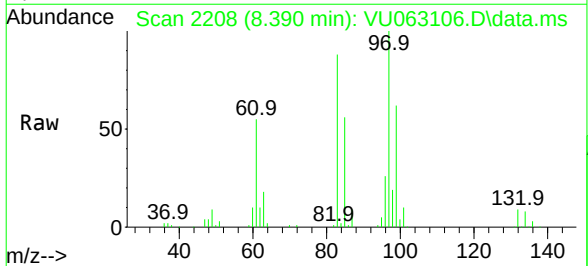
Instrument :
MSVOA_U
ClientSampleId :
XA174

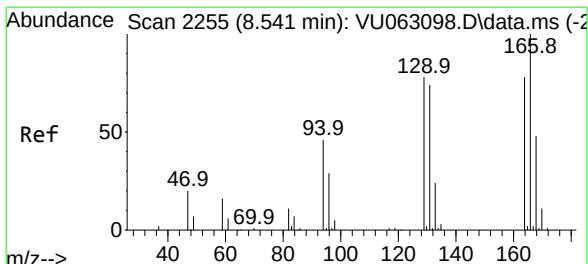
Tgt Ion: 91 Resp: 652327
Ion Ratio Lower Upper
91 100
92 57.2 39.3 73.1



#45
1,1,2-Trichloroethane
Concen: 138.773 ug/L
RT: 8.390 min Scan# 2208
Delta R.T. 0.003 min
Lab File: VU063106.D
Acq: 30 Jan 2025 18:24

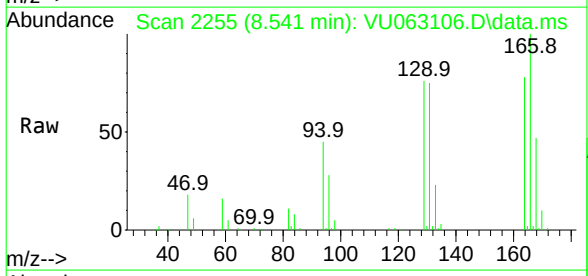
Tgt Ion: 97 Resp: 172694
Ion Ratio Lower Upper
97 100
99 61.9 44.2 82.2
83 87.9 64.0 118.8
85 55.9 41.4 76.8





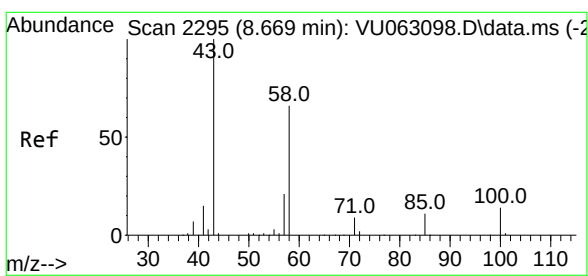
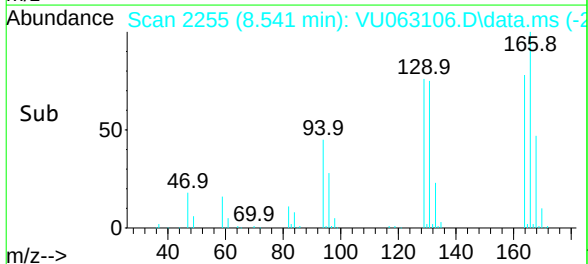
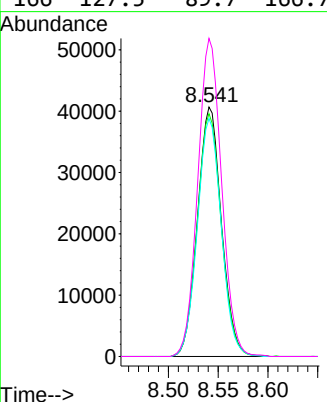
#46
Tetrachloroethene
Concen: 74.999 ug/L
RT: 8.541 min Scan# 2255
Delta R.T. 0.000 min
Lab File: VU063106.D
Acq: 30 Jan 2025 18:24

Instrument :
MSVOA_U
ClientSampleId :
XA174

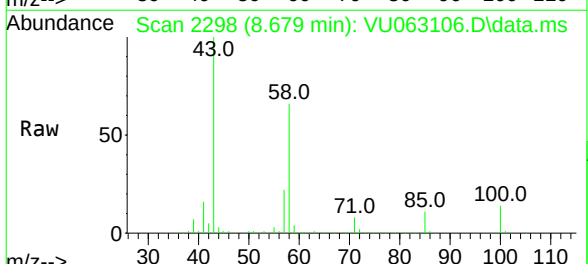


Tgt Ion: 164 Resp: 68272

Ion	Ratio	Lower	Upper
164	100		
129	97.3	69.9	129.7
131	95.4	66.3	123.1
166	127.5	89.7	166.7

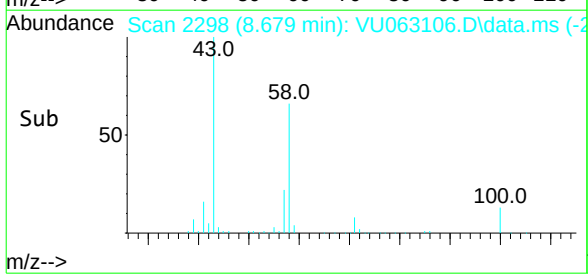
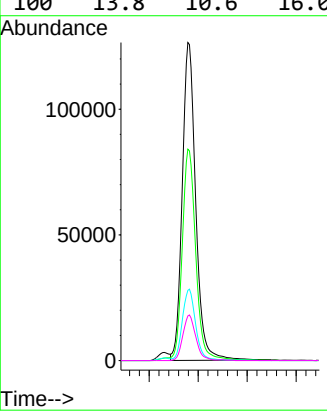


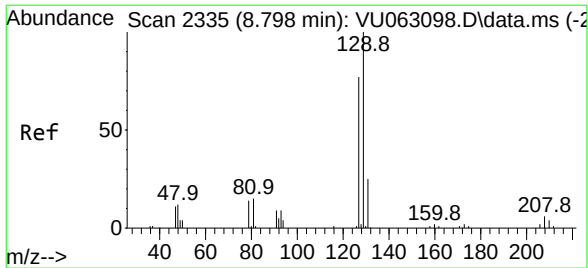
#48
2-Hexanone
Concen: 202.911 ug/L
RT: 8.679 min Scan# 2298
Delta R.T. 0.010 min
Lab File: VU063106.D
Acq: 30 Jan 2025 18:24



Tgt Ion: 43 Resp: 241376

Ion	Ratio	Lower	Upper
43	100		
58	66.0	52.6	78.8
57	22.1	17.9	26.9
100	13.8	10.6	16.0





#49

Dibromochloromethane

Concen: 78.186 ug/L

RT: 8.801 min Scan# 2335

Delta R.T. 0.003 min

Lab File: VU063106.D

Acq: 30 Jan 2025 18:24

Instrument :

MSVOA_U

ClientSampleId :

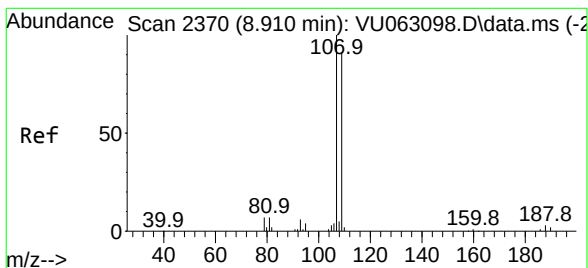
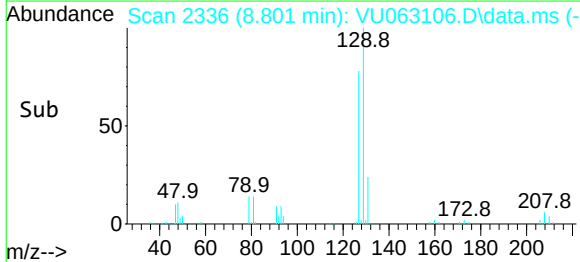
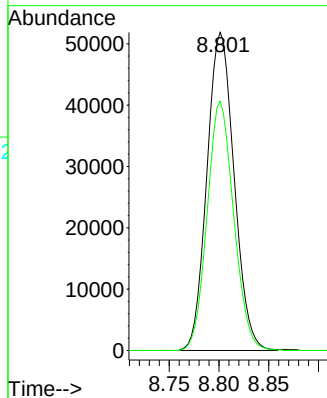
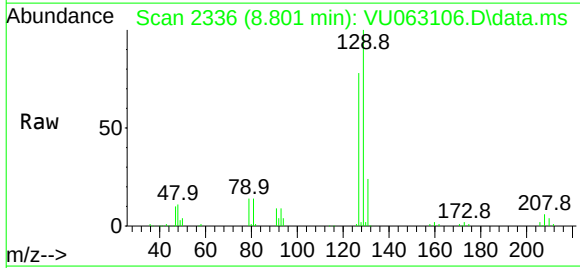
XA174

Tgt Ion:129 Resp: 98592

Ion Ratio Lower Upper

129 100

127 78.4 54.1 100.5



#50

1,2-Dibromoethane

Concen: 173.637 ug/L

RT: 8.911 min Scan# 2370

Delta R.T. 0.000 min

Lab File: VU063106.D

Acq: 30 Jan 2025 18:24

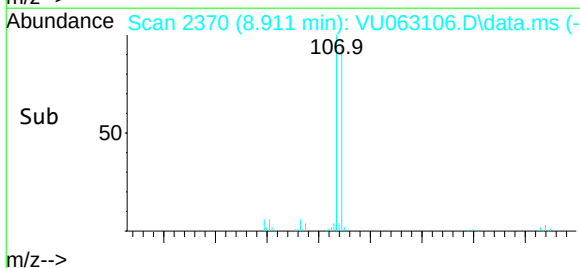
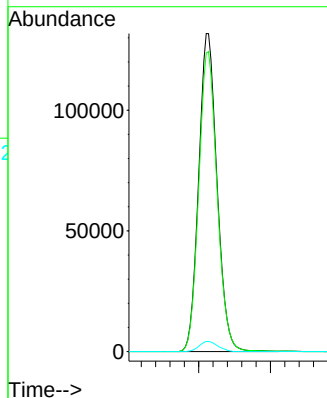
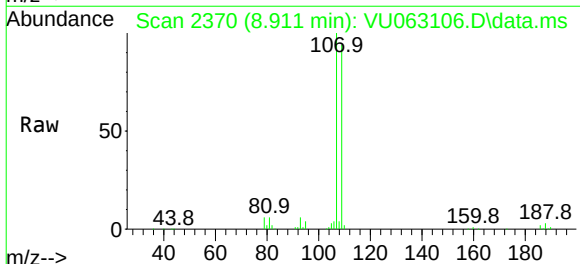
Tgt Ion:107 Resp: 233403

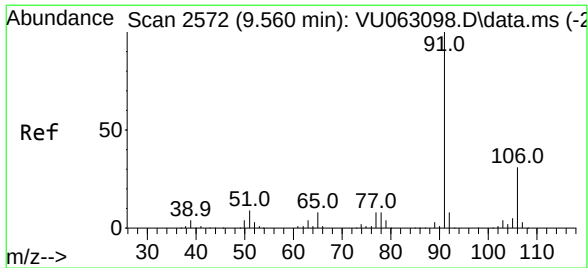
Ion Ratio Lower Upper

107 100

109 93.9 63.7 118.3

188 3.2 2.7 4.1

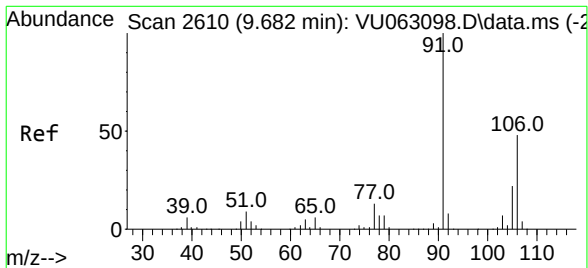
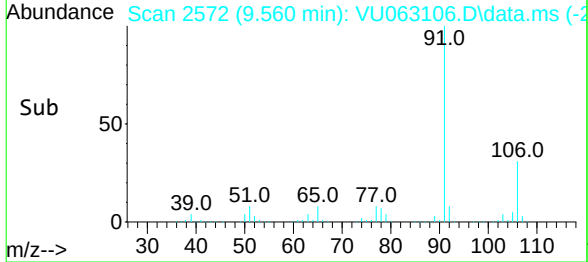
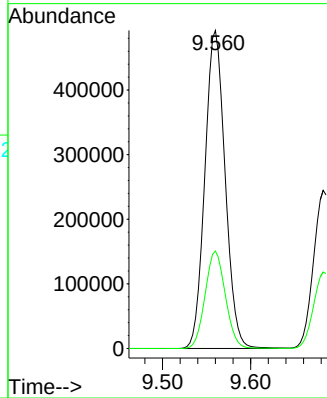
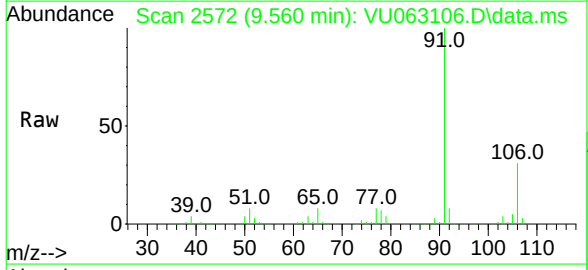




#52
 Ethylbenzene
 Concen: 144.616 ug/L
 RT: 9.560 min Scan# 2572
 Delta R.T. 0.000 min
 Lab File: VU063106.D
 Acq: 30 Jan 2025 18:24

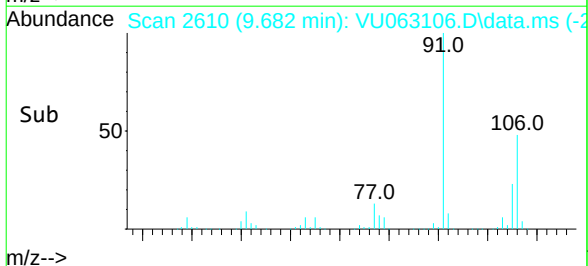
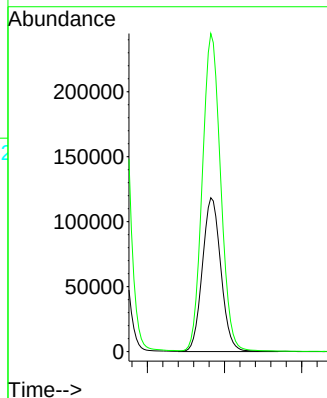
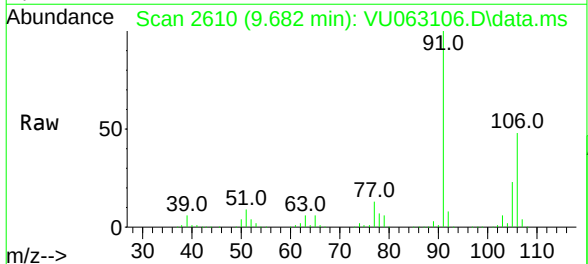
Instrument :
 MSVOA_U
 ClientSampleId :
 XA174

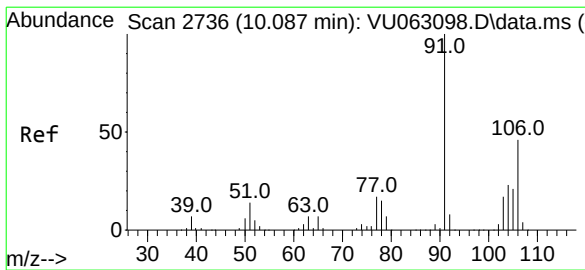
Tgt Ion: 91 Resp: 786012
 Ion Ratio Lower Upper
 91 100
 106 30.6 22.0 40.8



#53
 m,p-Xylene
 Concen: 97.297 ug/L
 RT: 9.682 min Scan# 2610
 Delta R.T. 0.000 min
 Lab File: VU063106.D
 Acq: 30 Jan 2025 18:24

Tgt Ion: 106 Resp: 197449
 Ion Ratio Lower Upper
 106 100
 91 206.8 145.5 270.1





#54

o-Xylene

Concen: 90.462 ug/L

RT: 10.091 min Scan# 27

Delta R.T. 0.003 min

Lab File: VU063106.D

Acq: 30 Jan 2025 18:24

Instrument :

MSVOA_U

ClientSampleId :

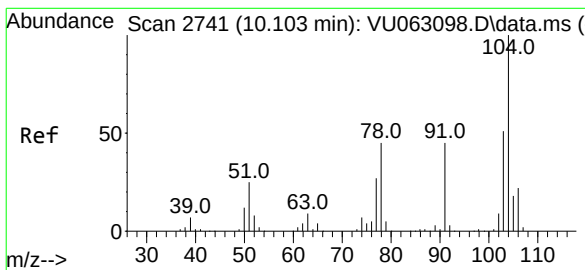
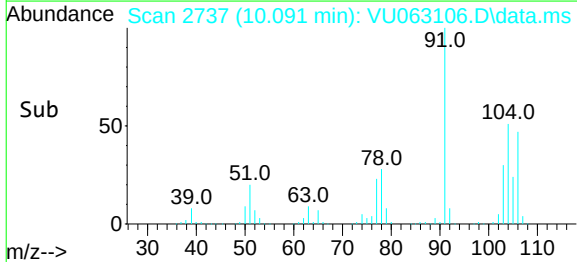
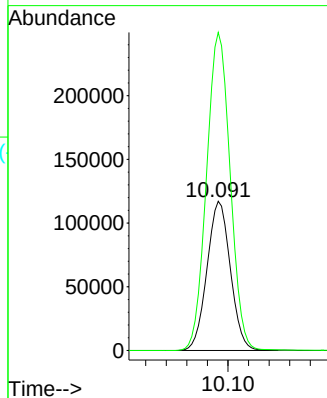
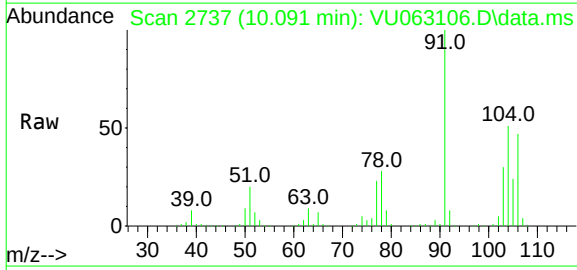
XA174

Tgt Ion:106 Resp: 184992

Ion Ratio Lower Upper

106 100

91 213.1 152.8 283.8



#55

Styrene

Concen: 173.433 ug/L

RT: 10.107 min Scan# 2742

Delta R.T. 0.003 min

Lab File: VU063106.D

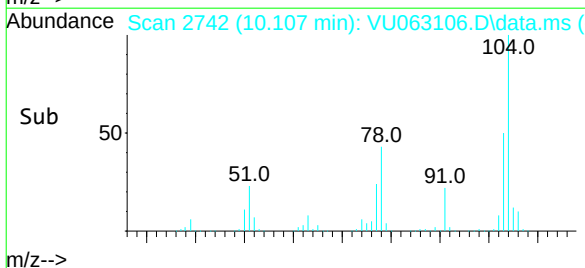
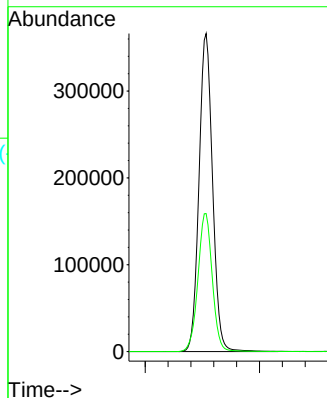
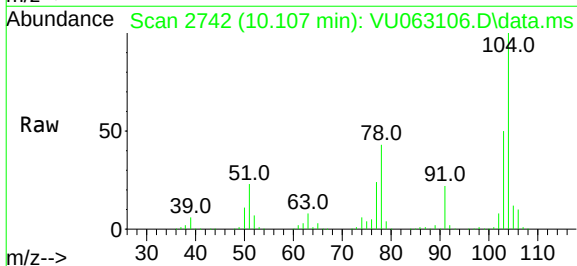
Acq: 30 Jan 2025 18:24

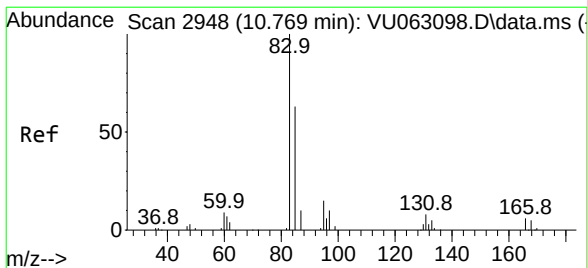
Tgt Ion:104 Resp: 602680

Ion Ratio Lower Upper

104 100

78 43.4 31.4 58.2





#57

1,1,2,2-Tetrachloroethane

Concen: 145.050 ug/L

RT: 10.772 min Scan# 2949

Delta R.T. 0.003 min

Lab File: VU063106.D

Acq: 30 Jan 2025 18:24

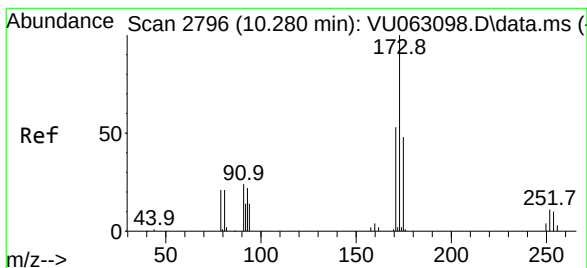
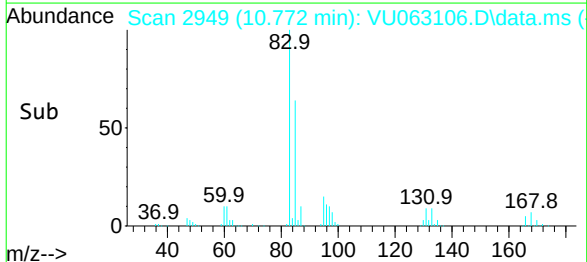
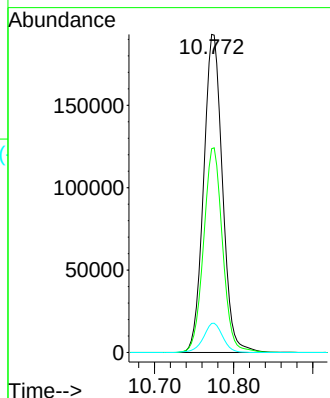
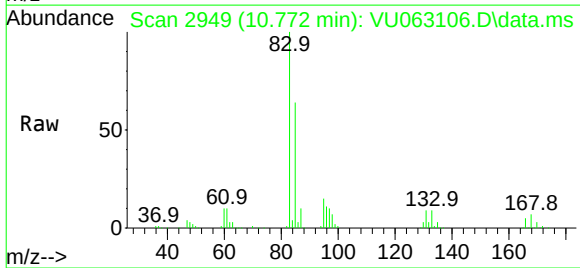
Instrument :

MSVOA_U

ClientSampleId :

XA174

Tgt Ion:	83	Resp:	318699
Ion	Ratio	Lower	Upper
83	100		
85	64.1	44.9	83.3
131	9.1	7.1	10.7



#59

Bromoform

Concen: 110.707 ug/L

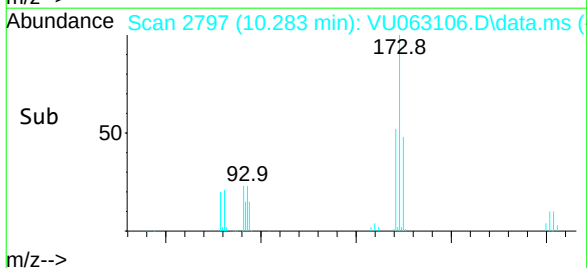
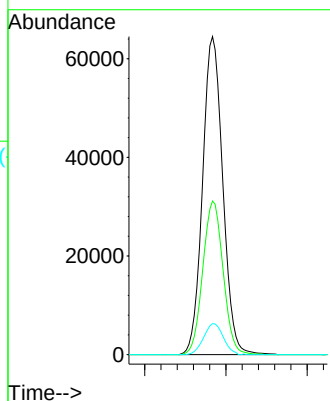
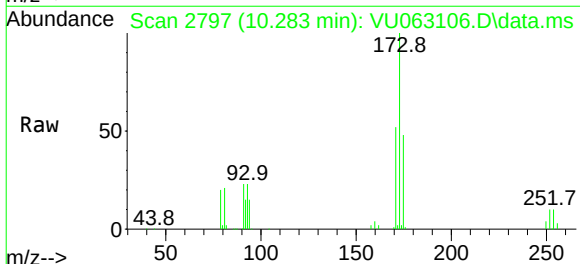
RT: 10.283 min Scan# 2797

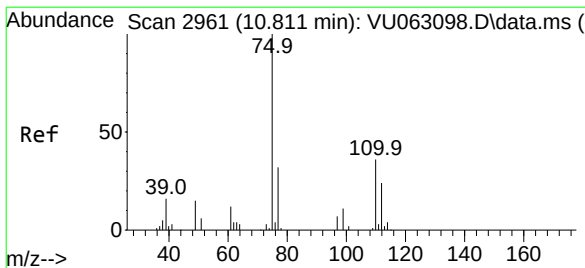
Delta R.T. 0.003 min

Lab File: VU063106.D

Acq: 30 Jan 2025 18:24

Tgt Ion:	173	Resp:	111534
Ion	Ratio	Lower	Upper
173	100		
175	48.4	38.6	57.8
254	9.5	7.6	11.4





#60

1,2,3-Trichloropropane

Concen: 86.508 ug/L

RT: 10.814 min Scan# 29

Delta R.T. 0.003 min

Lab File: VU063106.D

Acq: 30 Jan 2025 18:24

Instrument :

MSVOA_U

ClientSampleId :

XA174

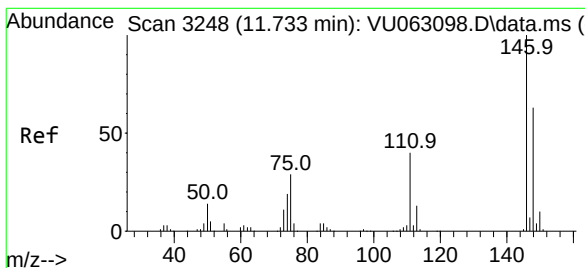
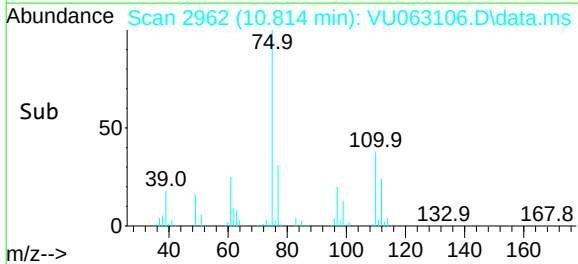
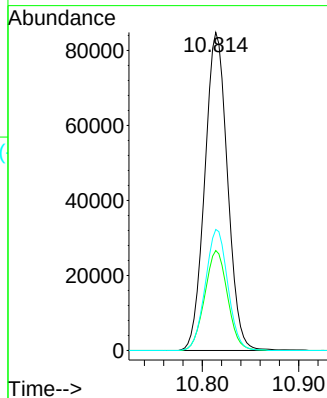
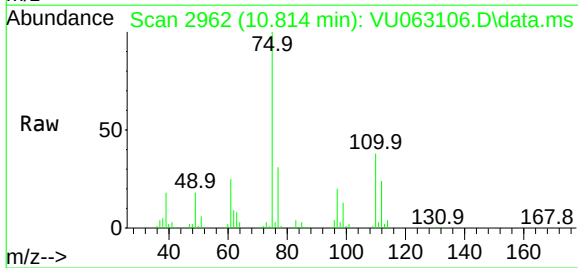
Tgt Ion: 75 Resp: 138728

Ion Ratio Lower Upper

75 100

77 31.6 25.6 38.4

110 37.7 29.1 43.7



#64

1,3-Dichlorobenzene

Concen: 27.237 ug/L

RT: 11.737 min Scan# 3249

Delta R.T. 0.003 min

Lab File: VU063106.D

Acq: 30 Jan 2025 18:24

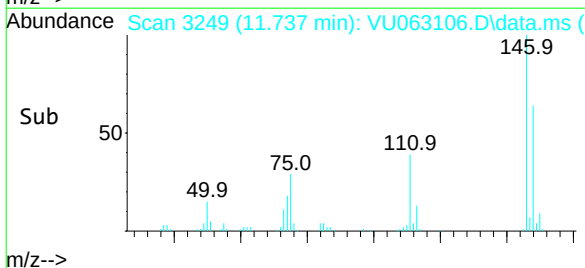
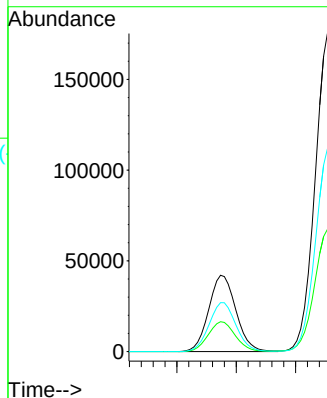
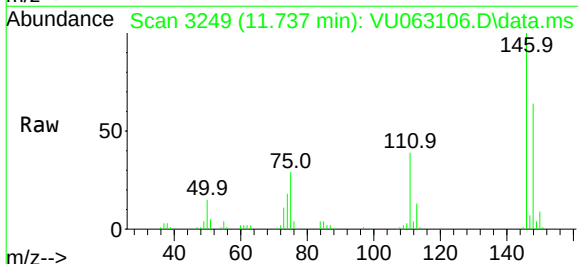
Tgt Ion: 146 Resp: 66979

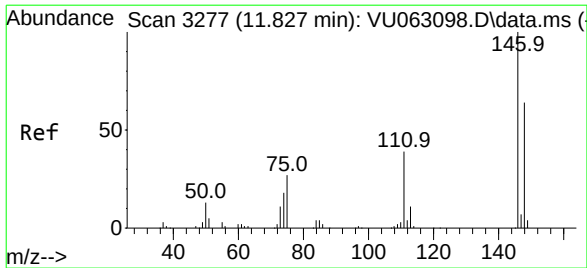
Ion Ratio Lower Upper

146 100

111 39.2 28.1 52.3

148 64.1 43.9 81.5





#65

1,4-Dichlorobenzene

Concen: 107.189 ug/L

RT: 11.827 min Scan# 3277

Delta R.T. 0.000 min

Lab File: VU063106.D

Acq: 30 Jan 2025 18:24

Instrument :

MSVOA_U

ClientSampleId :

XA174

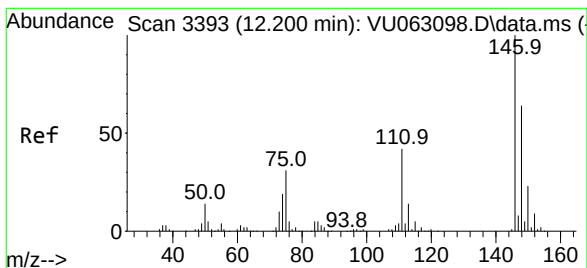
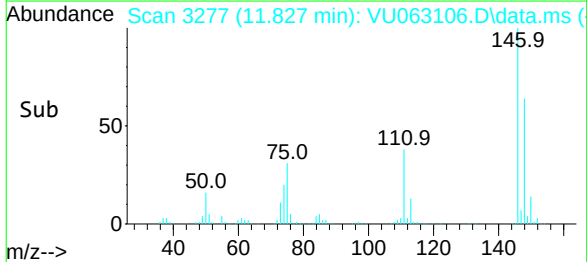
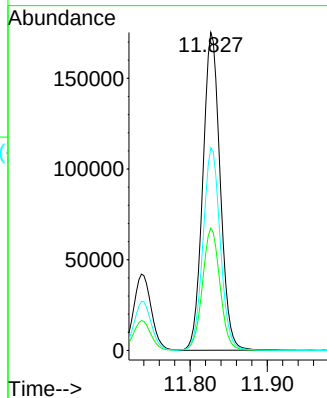
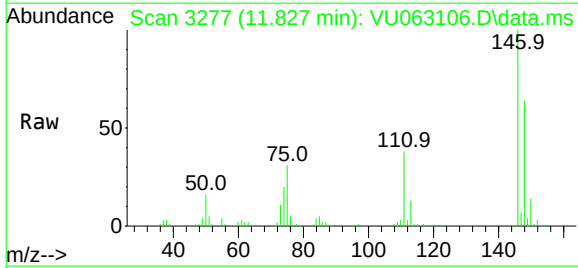
Tgt Ion:146 Resp: 273147

Ion Ratio Lower Upper

146 100

111 38.4 27.2 50.6

148 63.7 44.9 83.5



#67

1,2-Dichlorobenzene

Concen: 126.634 ug/L

RT: 12.203 min Scan# 3394

Delta R.T. 0.003 min

Lab File: VU063106.D

Acq: 30 Jan 2025 18:24

Tgt Ion:146 Resp: 307210

Ion Ratio Lower Upper

146 100

111 42.1 33.6 50.4

148 64.9 51.2 76.8

