

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU011625\
 Data File : VU062812.D
 Acq On : 16 Jan 2025 12:09
 Operator : MD/SY
 Sample : Q1072-18DL 2X
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 16 22:05:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR010225WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Jan 16 22:02:47 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.235	114	96739	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.405	117	90638	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.804	152	45502	5.000	ug/L	0.00

System Monitoring Compounds						
4) Vinyl Chloride-d3	1.595	65	25207	4.705	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	94.000%
7) Chloroethane-d5	1.901	69	20589	4.777	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	95.600%
11) 1,1-Dichloroethene-d2	2.557	65	12889	4.644	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	92.800%
20) 2-Butanone-d5	4.605	46	53164	48.550	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	97.100%
24) Chloroform-d	5.049	84	61396	4.658	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.200%
26) 1,2-Dichloroethane-d4	5.689	65	35313	4.939	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.800%
32) Benzene-d6	5.714	84	106286	4.797	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.000%
36) 1,2-Dichloropropane-d6	6.679	67	30189	4.914	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	98.200%
41) Toluene-d8	7.888	98	101363	4.696	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.000%
43) trans-1,3-Dichloroprop...	8.171	79	14785	4.828	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	96.600%
46) 2-Hexanone-d5	8.621	63	44493	46.200	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	92.400%
56) 1,1,2,2-Tetrachloroeth...	10.746	84	24825	4.825	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	96.600%
66) 1,2-Dichlorobenzene-d4	12.183	152	38717	5.114	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	102.200%

Target Compounds					Qvalue	
5) Vinyl chloride	1.599	62	107346	15.414	ug/L	99
12) 1,1-Dichloroethene	2.570	96	32883	5.476	ug/L	92
15) Methyl Acetate	3.177	43	1067	0.568	ug/L #	44
16) Methylene chloride	3.033	84	34445	5.236	ug/L	96
18) trans-1,2-Dichloroethene	3.345	96	25459	3.957	ug/L	98
22) cis-1,2-Dichloroethene	4.653	96	38289	5.465	ug/L	93
27) 1,2-Dichloroethane	5.779	62	61430	6.636	ug/L	100
29) 1,1,1-Trichloroethane	5.303	97	112393	8.175	ug/L	99
31) Carbon tetrachloride	5.512	117	45785	3.624	ug/L	100
33) Benzene	5.759	78	185040	7.106	ug/L	100
34) Trichloroethene	6.531	95	15663	1.761	ug/L	98
37) 1,2-Dichloropropane	6.779	63	46328	7.541	ug/L	99
42) Toluene	7.959	91	154784	5.424	ug/L	99
45) 1,1,2-Trichloroethane	8.389	97	11589	2.323	ug/L	97
47) Tetrachloroethene	8.541	164	48110	7.852	ug/L	95
49) Dibromochloromethane	8.544	129	46027	6.871	ug/L #	12
51) Chlorobenzene	9.434	112	112943	6.052	ug/L	99
52) Ethylbenzene	9.560	91	254753	7.867	ug/L	98
53) m,p-Xylene	9.682	106	112598	9.297	ug/L	97

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

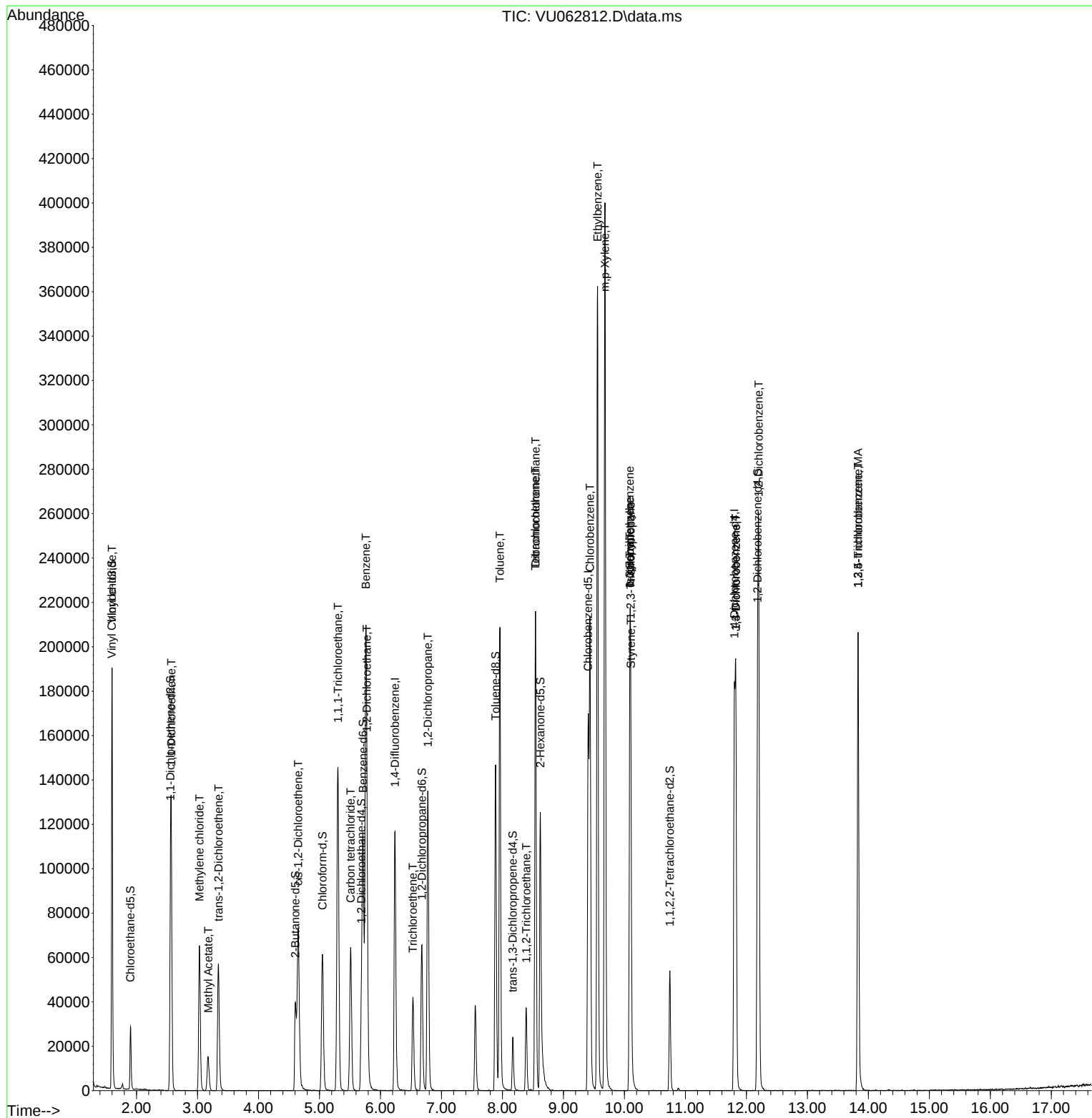
54) o-Xylene	10.090	106	41637	3.589	ug/L	98
55) Styrene	10.106	104	67402	3.474	ug/L	97
60) Isopropylbenzene	10.090	105	23770	0.758	ug/L #	1
61) 1,2,3-Trichloropropane	10.103	75	4148	1.028	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.090	105	23770	0.892	ug/L #	31
64) 1,3-Dichlorobenzene	11.827	146	72880	5.013	ug/L	100
65) 1,4-Dichlorobenzene	11.827	146	72880	4.972	ug/L	97
67) 1,2-Dichlorobenzene	12.203	146	94011	6.900	ug/L	99
69) 1,3,5-Trichlorobenzene	13.833	180	67182	6.136	ug/L	98
70) 1,2,4-trichlorobenzene	13.833	180	67182	7.619	ug/L	99

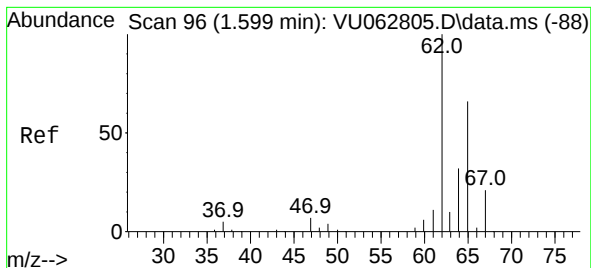
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 15.414 ug/L

RT: 1.599 min Scan# 96

Delta R.T. 0.000 min

Lab File: VU062812.D

Acq: 16 Jan 2025 12:09

Instrument :

MSVOA_U

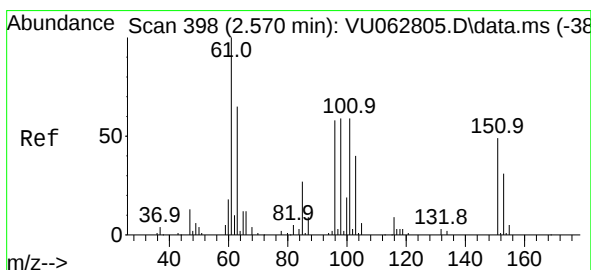
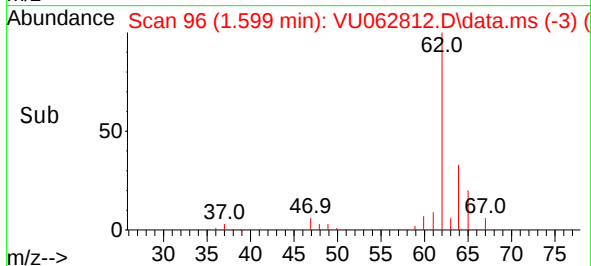
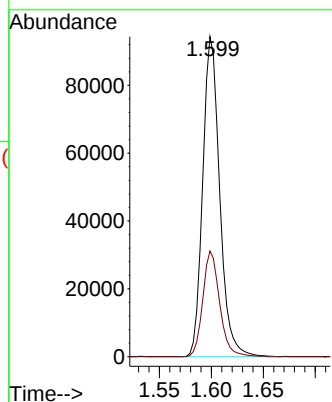
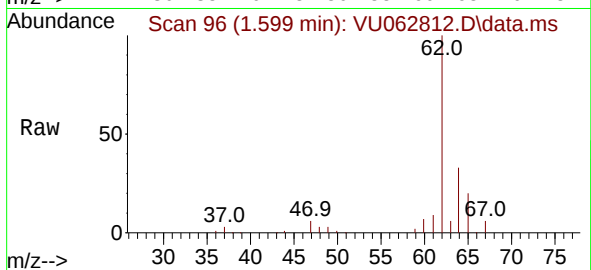
ClientSampleId :

Tgt Ion: 62 Resp: 107346

Ion Ratio Lower Upper

62 100

64 33.0 23.4 43.4



#12

1,1-Dichloroethene

Concen: 5.476 ug/L

RT: 2.570 min Scan# 398

Delta R.T. 0.000 min

Lab File: VU062812.D

Acq: 16 Jan 2025 12:09

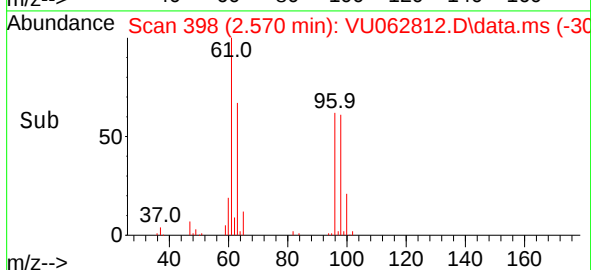
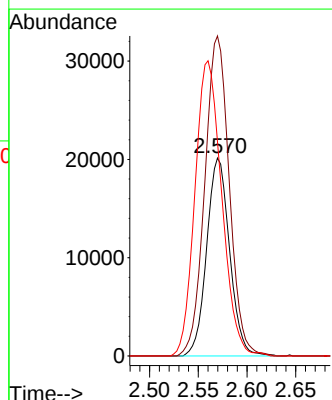
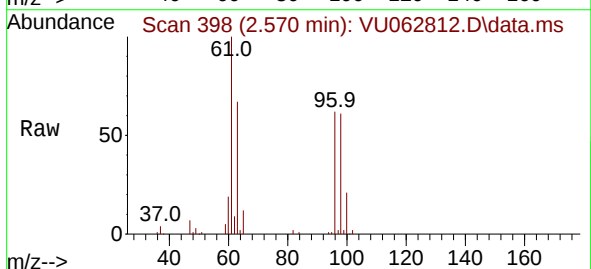
Tgt Ion: 96 Resp: 32883

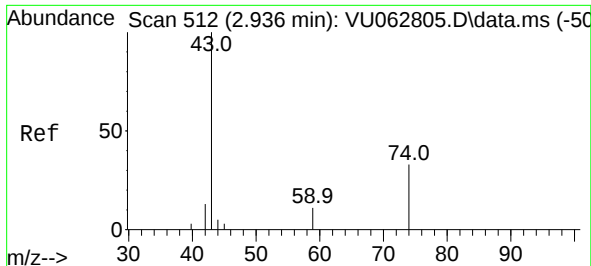
Ion Ratio Lower Upper

96 100

61 161.6 120.4 223.6

63 108.2 82.3 152.9





#15

Methyl Acetate

Concen: 0.568 ug/L

RT: 3.177 min Scan# 512

Delta R.T. 0.241 min

Lab File: VU062812.D

Acq: 16 Jan 2025 12:09

Instrument :

MSVOA_U

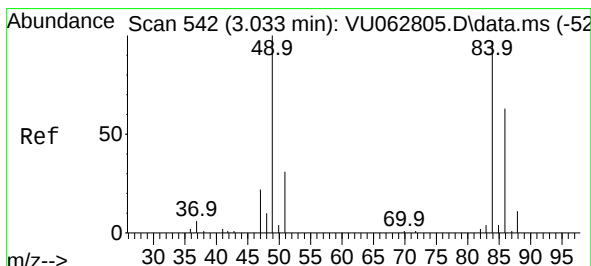
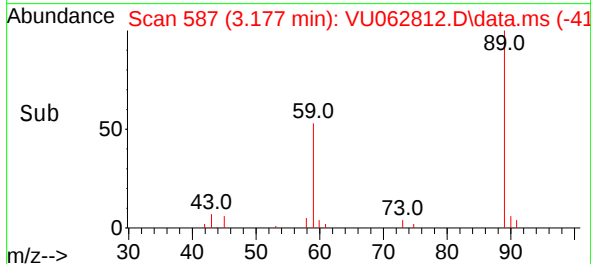
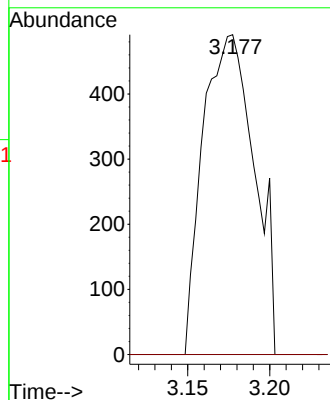
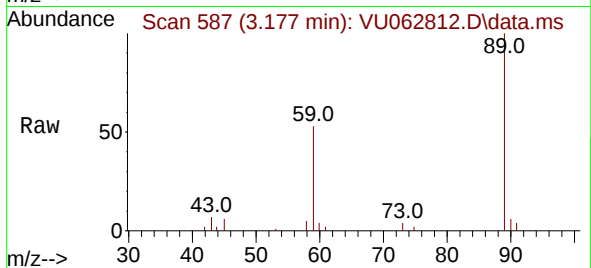
ClientSampleId :

Tgt Ion: 43 Resp: 1067

Ion Ratio Lower Upper

43 100

74 0.0 24.4 36.6#



#16

Methylene chloride

Concen: 5.236 ug/L

RT: 3.033 min Scan# 542

Delta R.T. 0.000 min

Lab File: VU062812.D

Acq: 16 Jan 2025 12:09

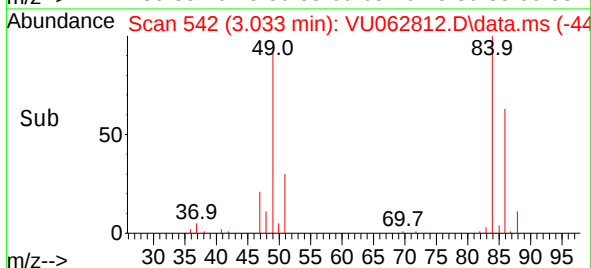
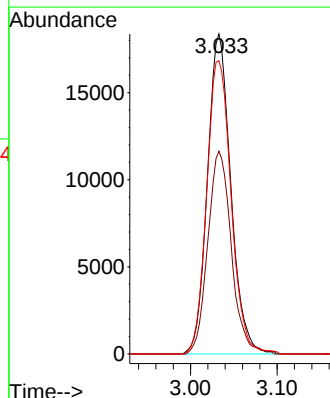
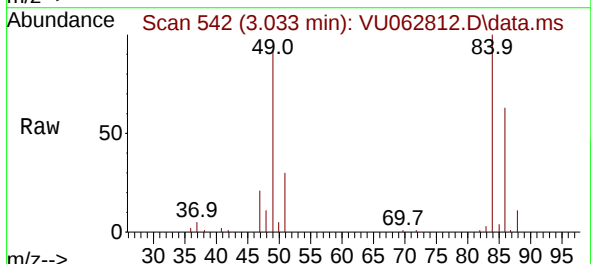
Tgt Ion: 84 Resp: 34445

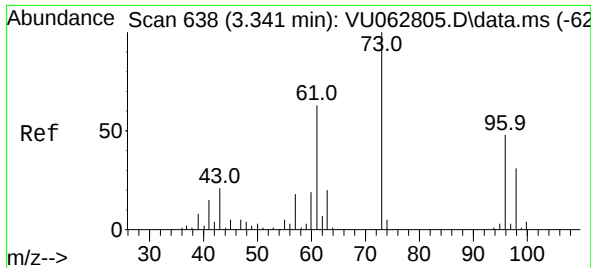
Ion Ratio Lower Upper

84 100

86 63.3 44.7 83.1

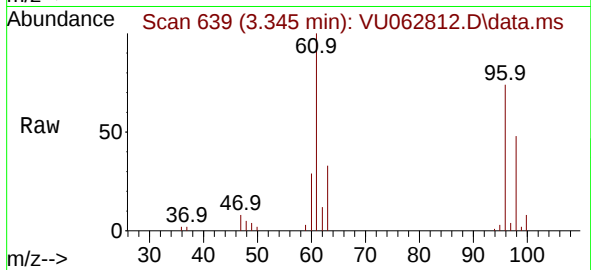
49 91.6 68.3 126.9



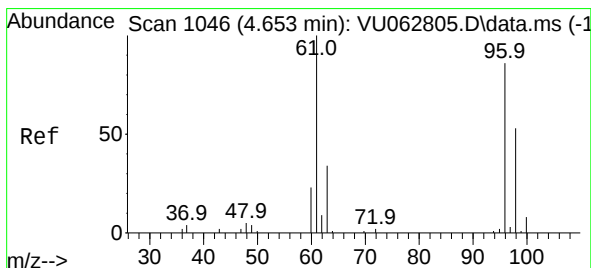
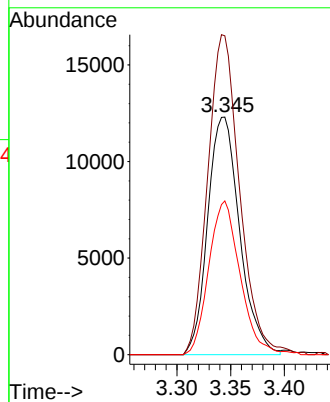
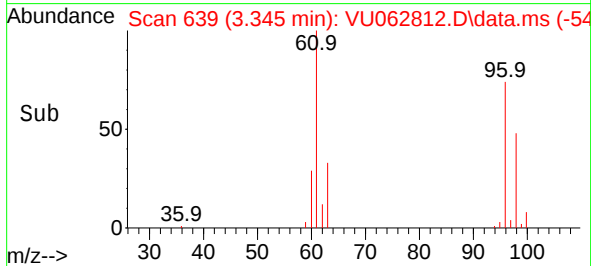


#18
trans-1,2-Dichloroethene
Concen: 3.957 ug/L
RT: 3.345 min Scan# 61
Delta R.T. 0.003 min
Lab File: VU062812.D
Acq: 16 Jan 2025 12:09

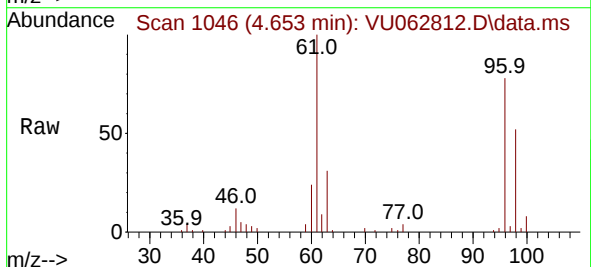
Instrument :
MSVOA_U
ClientSampleId :



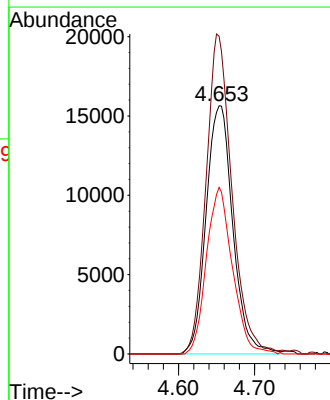
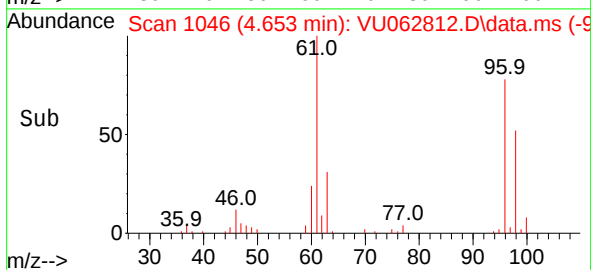
Tgt Ion: 96 Resp: 25459
Ion Ratio Lower Upper
96 100
61 134.3 94.4 175.2
98 64.8 42.8 79.4

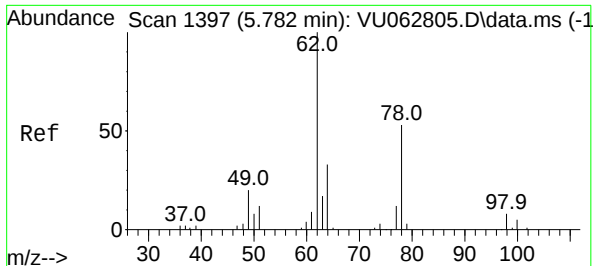


#22
cis-1,2-Dichloroethene
Concen: 5.465 ug/L
RT: 4.653 min Scan# 1046
Delta R.T. 0.000 min
Lab File: VU062812.D
Acq: 16 Jan 2025 12:09



Tgt Ion: 96 Resp: 38289
Ion Ratio Lower Upper
96 100
61 128.1 84.8 157.6
98 67.1 43.1 80.1

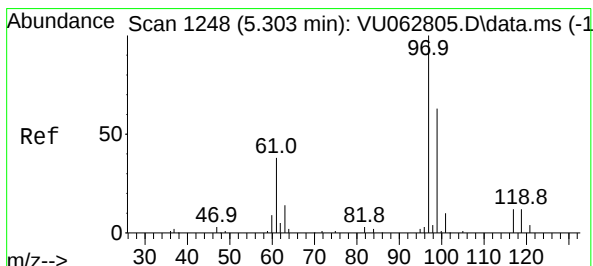
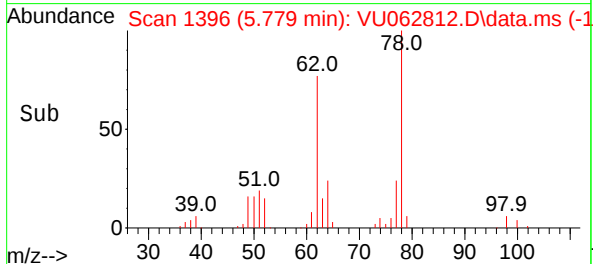
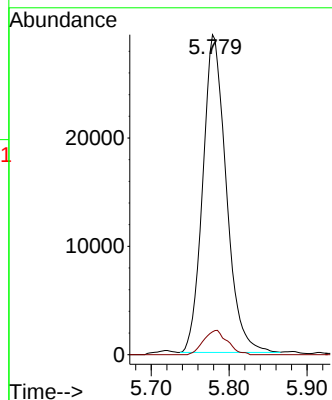
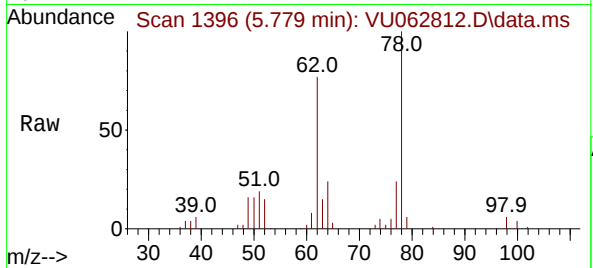




#27
1,2-Dichloroethane
Concen: 6.636 ug/L
RT: 5.779 min Scan# 1396
Delta R.T. -0.003 min
Lab File: VU062812.D
Acq: 16 Jan 2025 12:09

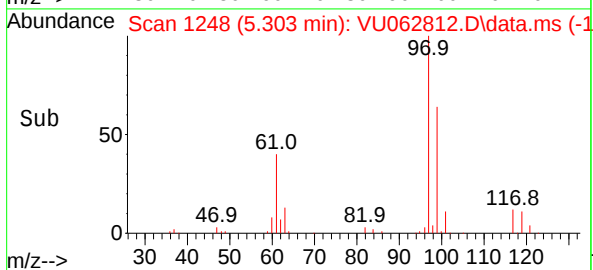
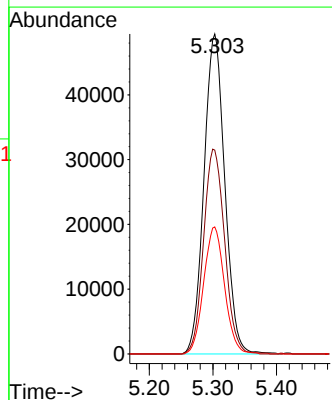
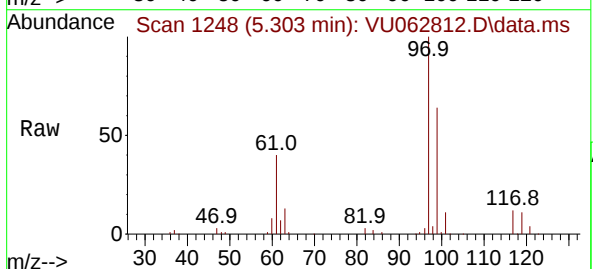
Instrument :
MSVOA_U
ClientSampleId :

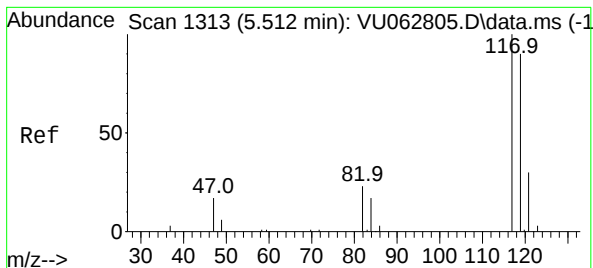
Tgt Ion: 62 Resp: 61430
Ion Ratio Lower Upper
62 100
98 7.2 5.8 8.6



#29
1,1,1-Trichloroethane
Concen: 8.175 ug/L
RT: 5.303 min Scan# 1248
Delta R.T. 0.000 min
Lab File: VU062812.D
Acq: 16 Jan 2025 12:09

Tgt Ion: 97 Resp: 112393
Ion Ratio Lower Upper
97 100
99 64.6 52.4 78.6
61 39.8 32.2 48.4





#31

Carbon tetrachloride

Concen: 3.624 ug/L

RT: 5.512 min Scan# 1313

Delta R.T. 0.000 min

Lab File: VU062812.D

Acq: 16 Jan 2025 12:09

Instrument :

MSVOA_U

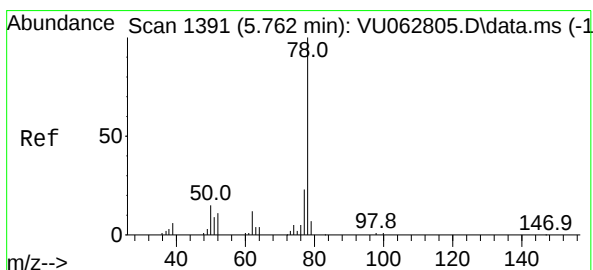
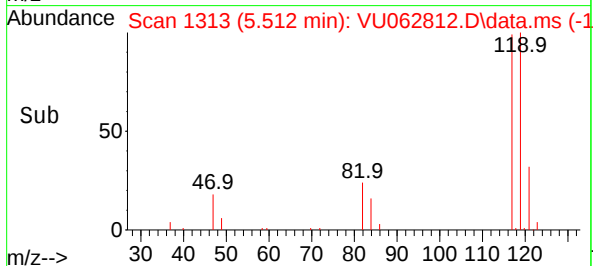
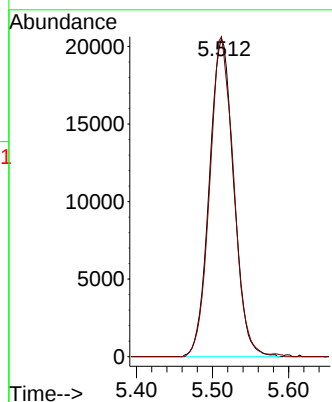
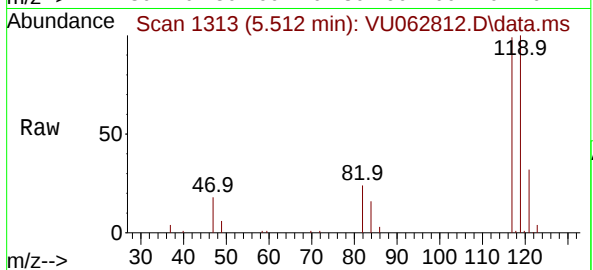
ClientSampleId :

Tgt Ion:117 Resp: 45785

Ion Ratio Lower Upper

117 100

119 98.3 78.6 118.0



#33

Benzene

Concen: 7.106 ug/L

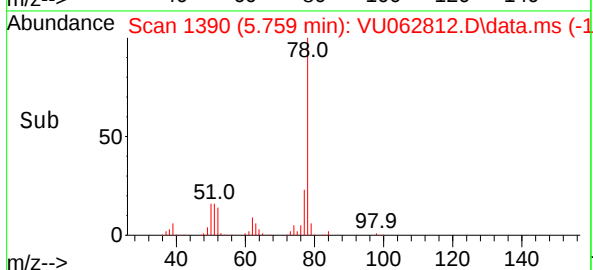
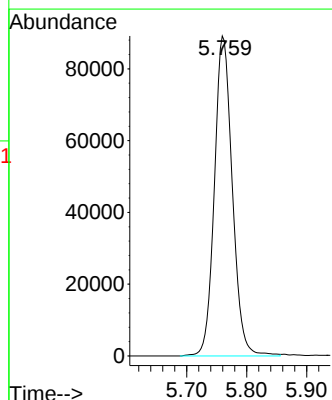
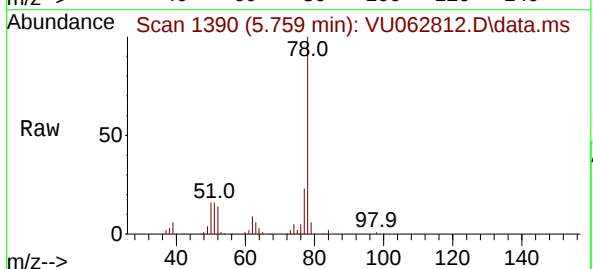
RT: 5.759 min Scan# 1390

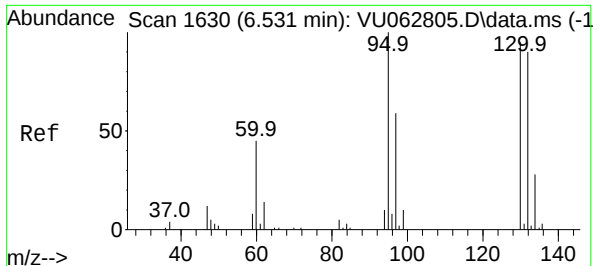
Delta R.T. -0.003 min

Lab File: VU062812.D

Acq: 16 Jan 2025 12:09

Tgt Ion: 78 Resp: 185040





#34

Trichloroethene

Concen: 1.761 ug/L

RT: 6.531 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU062812.D

Acq: 16 Jan 2025 12:09

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 95 Resp: 15663

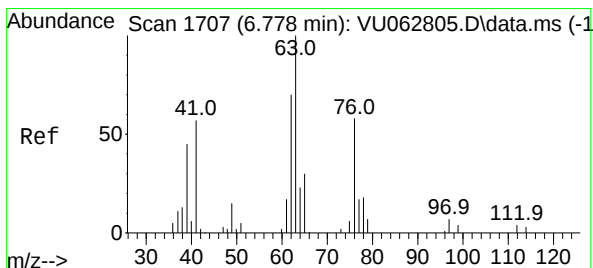
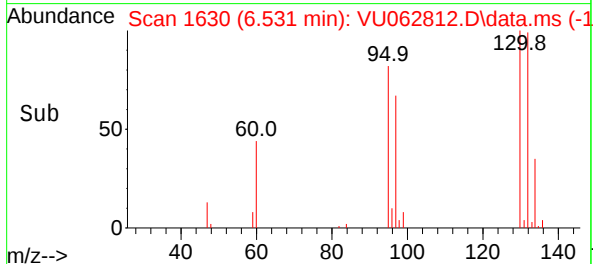
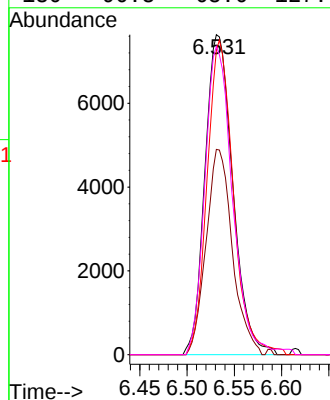
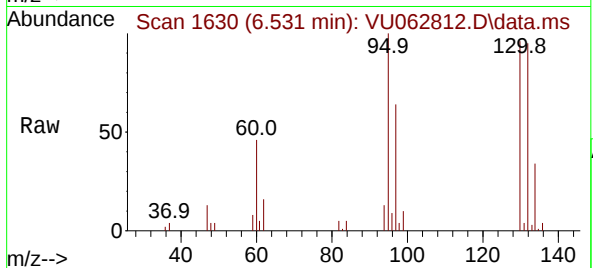
Ion Ratio Lower Upper

95 100

97 64.2 47.5 88.3

132 95.0 66.9 124.3

130 96.3 68.6 127.4



#37

1,2-Dichloropropane

Concen: 7.541 ug/L

RT: 6.779 min Scan# 1707

Delta R.T. 0.000 min

Lab File: VU062812.D

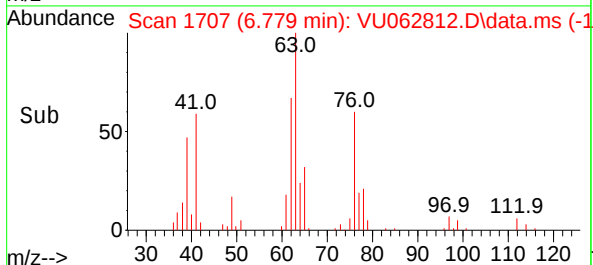
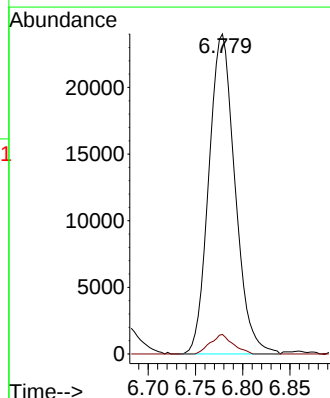
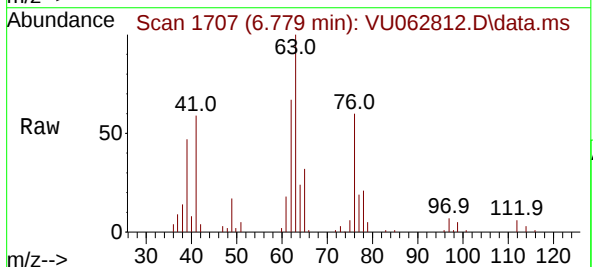
Acq: 16 Jan 2025 12:09

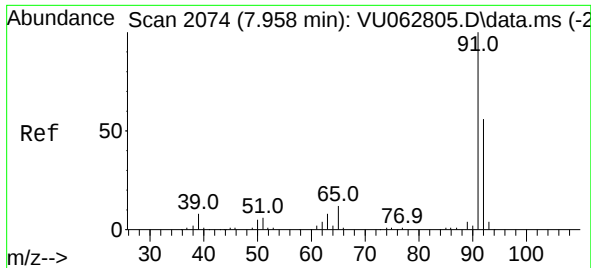
Tgt Ion: 63 Resp: 46328

Ion Ratio Lower Upper

63 100

112 5.2 3.8 5.8





#42

Toluene

Concen: 5.424 ug/L

RT: 7.959 min Scan# 2074

Delta R.T. 0.000 min

Lab File: VU062812.D

Acq: 16 Jan 2025 12:09

Instrument :

MSVOA_U

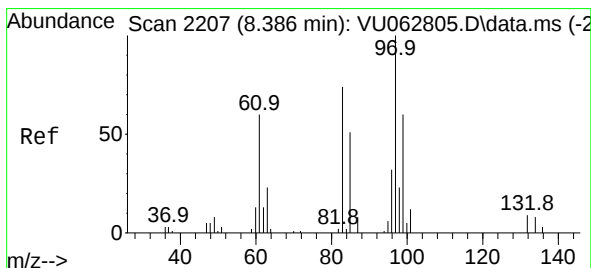
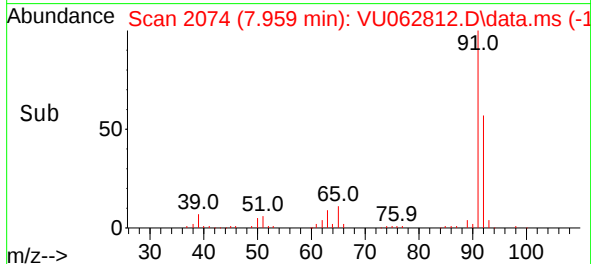
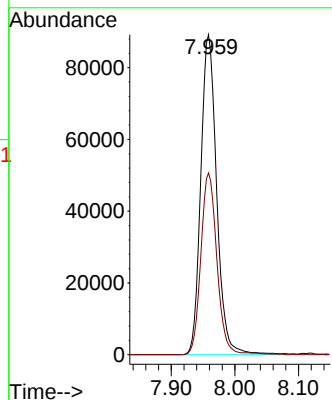
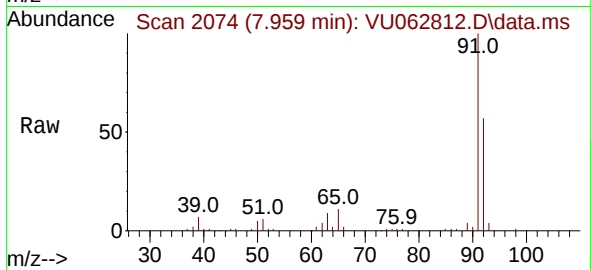
ClientSampleId :

Tgt Ion: 91 Resp: 154784

Ion Ratio Lower Upper

91 100

92 56.8 40.4 75.0



#45

1,1,2-Trichloroethane

Concen: 2.323 ug/L

RT: 8.389 min Scan# 2208

Delta R.T. 0.003 min

Lab File: VU062812.D

Acq: 16 Jan 2025 12:09

Tgt Ion: 97 Resp: 11589

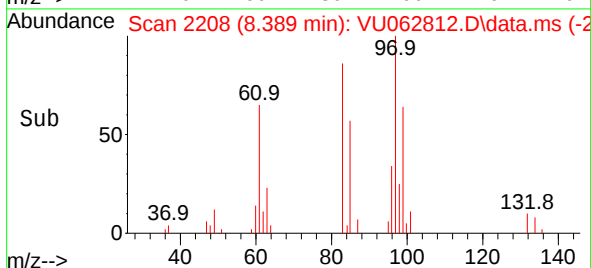
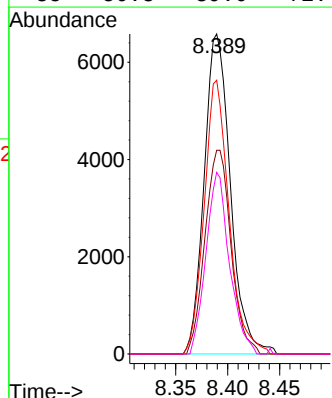
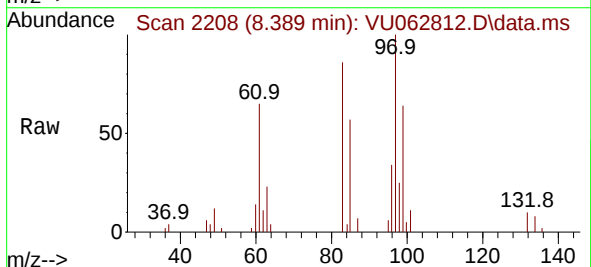
Ion Ratio Lower Upper

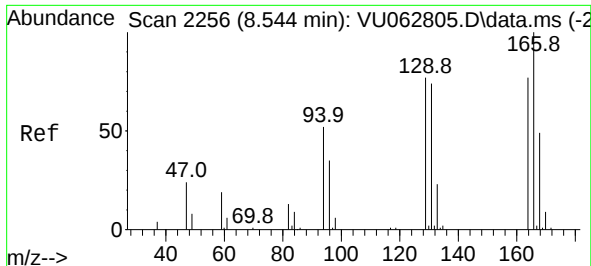
97 100

99 63.7 45.6 84.6

83 85.5 63.0 117.0

85 56.8 39.0 72.4





#47

Tetrachloroethene

Concen: 7.852 ug/L

RT: 8.541 min Scan# 2255

Delta R.T. -0.003 min

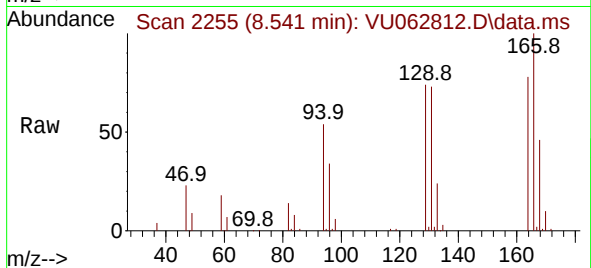
Lab File: VU062812.D

Acq: 16 Jan 2025 12:09

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:164 Resp: 48110

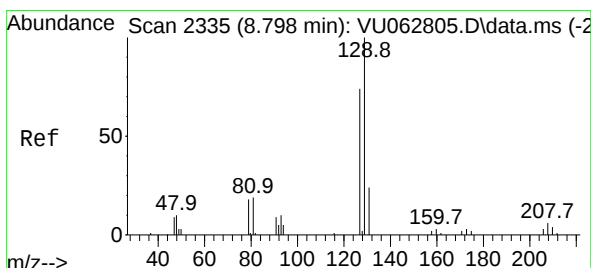
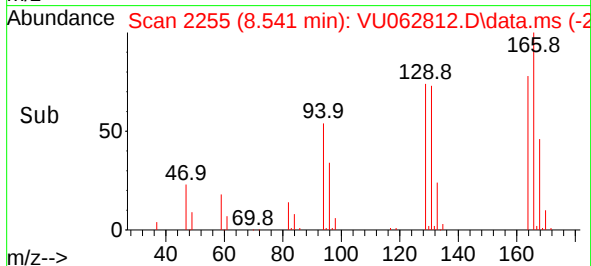
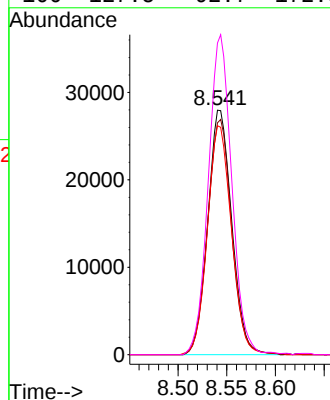
Ion Ratio Lower Upper

164 100

129 94.8 71.0 131.9

131 93.7 69.4 129.0

166 127.5 92.7 172.3



#49

Dibromochloromethane

Concen: 6.871 ug/L

RT: 8.544 min Scan# 2256

Delta R.T. -0.254 min

Lab File: VU062812.D

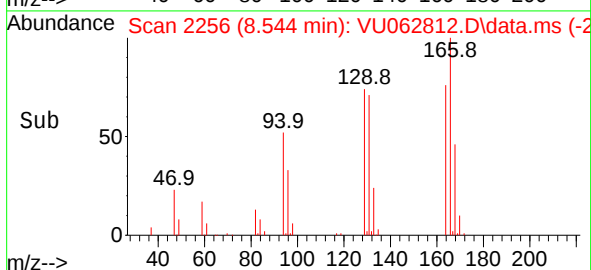
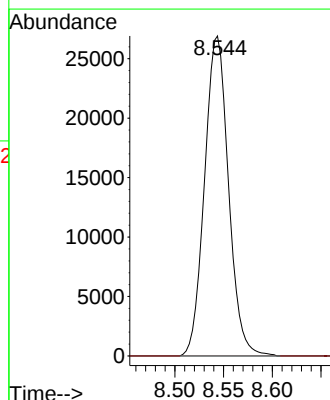
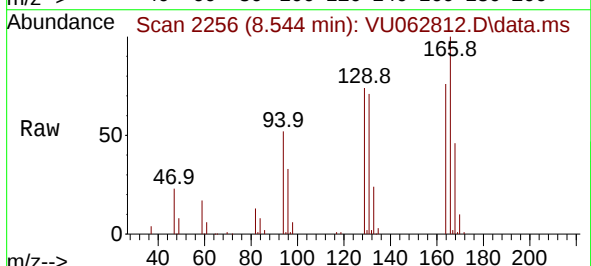
Acq: 16 Jan 2025 12:09

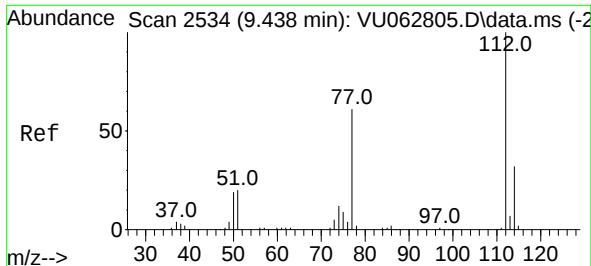
Tgt Ion:129 Resp: 46027

Ion Ratio Lower Upper

129 100

127 0.0 52.1 96.9#





#51

Chlorobenzene

Concen: 6.052 ug/L

RT: 9.434 min Scan# 2534

Delta R.T. -0.003 min

Lab File: VU062812.D

Acq: 16 Jan 2025 12:09

Instrument :

MSVOA_U

ClientSampleId :

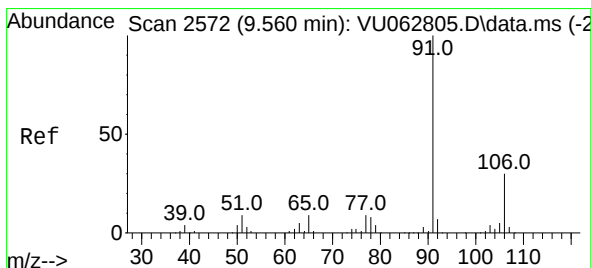
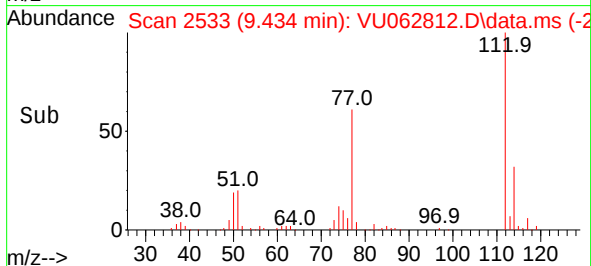
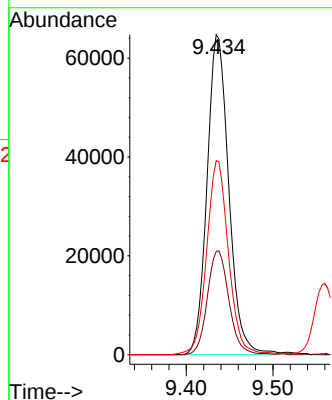
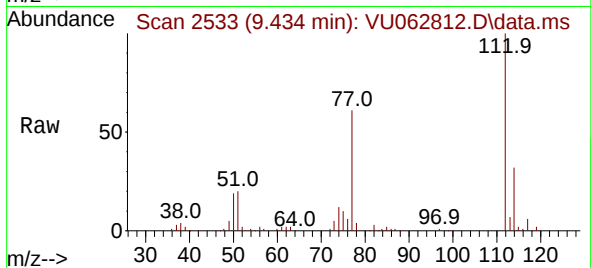
Tgt Ion:112 Resp: 112943

Ion Ratio Lower Upper

112 100

114 32.3 21.7 40.3

77 60.7 48.6 73.0



#52

Ethylbenzene

Concen: 7.867 ug/L

RT: 9.560 min Scan# 2572

Delta R.T. 0.000 min

Lab File: VU062812.D

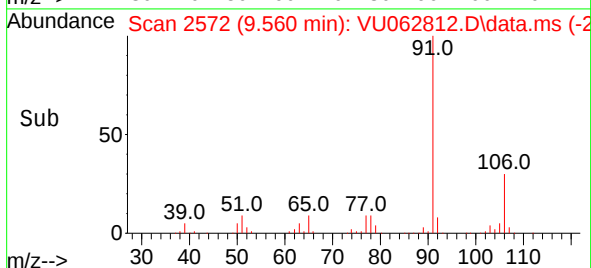
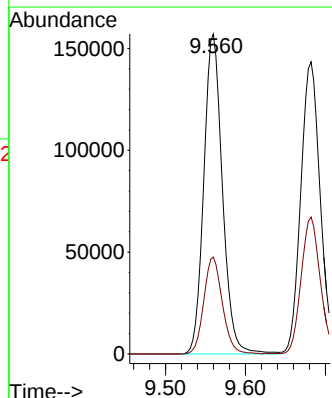
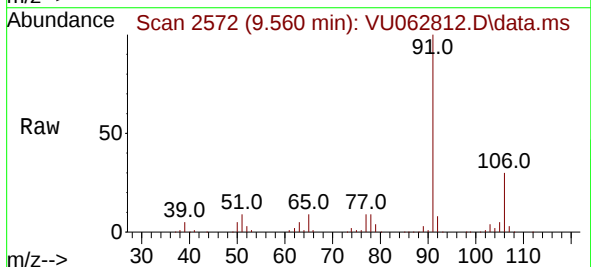
Acq: 16 Jan 2025 12:09

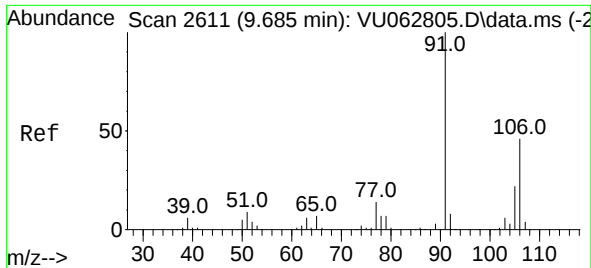
Tgt Ion: 91 Resp: 254753

Ion Ratio Lower Upper

91 100

106 30.2 21.9 40.7

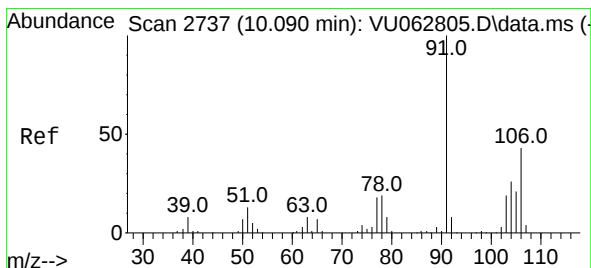
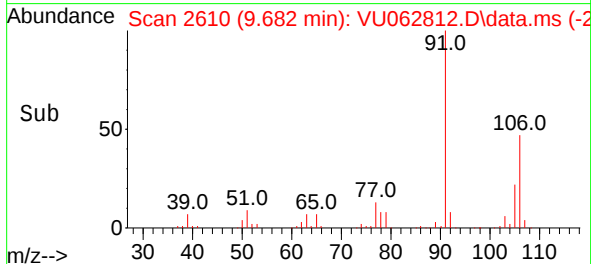
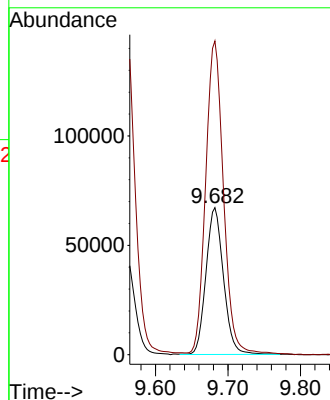
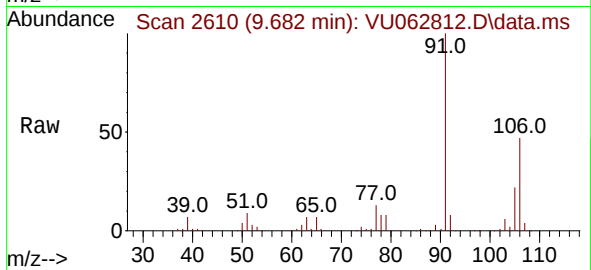




#53
m,p-Xylene
Concen: 9.297 ug/L
RT: 9.682 min Scan# 2611
Delta R.T. -0.003 min
Lab File: VU062812.D
Acq: 16 Jan 2025 12:09

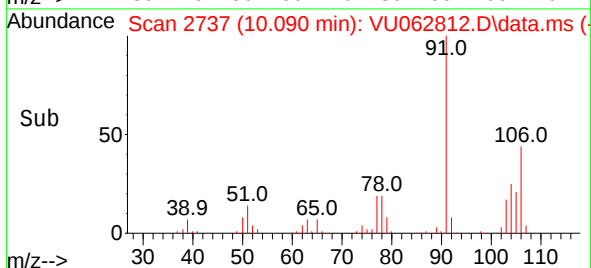
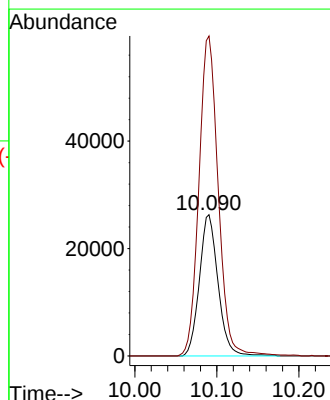
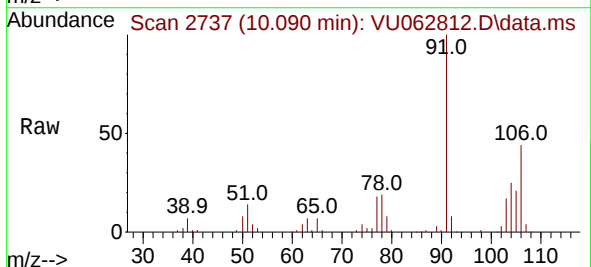
Instrument :
MSVOA_U
ClientSampleId :

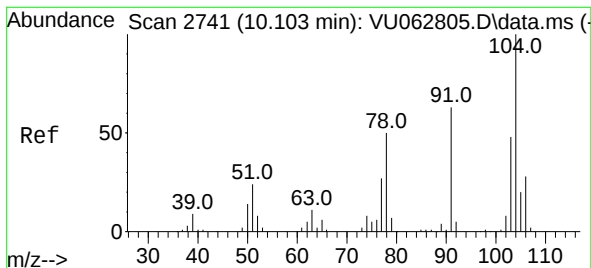
Tgt Ion:106 Resp: 112598
Ion Ratio Lower Upper
106 100
91 213.3 153.1 284.3



#54
o-Xylene
Concen: 3.589 ug/L
RT: 10.090 min Scan# 2737
Delta R.T. 0.000 min
Lab File: VU062812.D
Acq: 16 Jan 2025 12:09

Tgt Ion:106 Resp: 41637
Ion Ratio Lower Upper
106 100
91 226.6 160.4 297.8





#55

Styrene

Concen: 3.474 ug/L

RT: 10.106 min Scan# 21

Delta R.T. 0.003 min

Lab File: VU062812.D

Acq: 16 Jan 2025 12:09

Instrument :

MSVOA_U

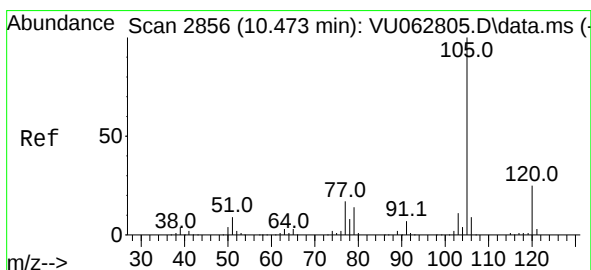
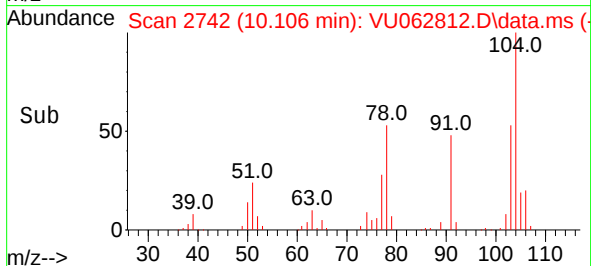
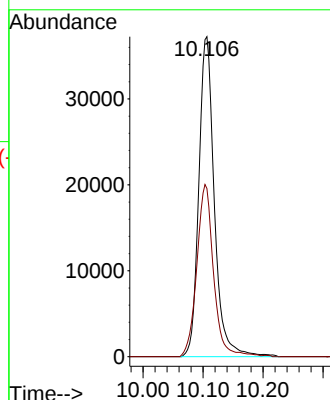
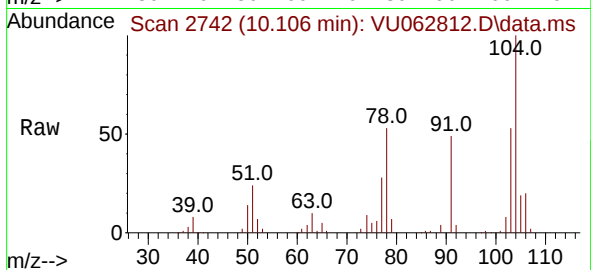
ClientSampleId :

Tgt Ion:104 Resp: 67402

Ion Ratio Lower Upper

104 100

78 52.6 35.5 65.9



#60

Isopropylbenzene

Concen: 0.758 ug/L

RT: 10.090 min Scan# 2737

Delta R.T. -0.383 min

Lab File: VU062812.D

Acq: 16 Jan 2025 12:09

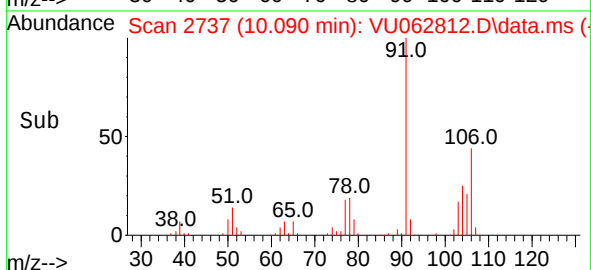
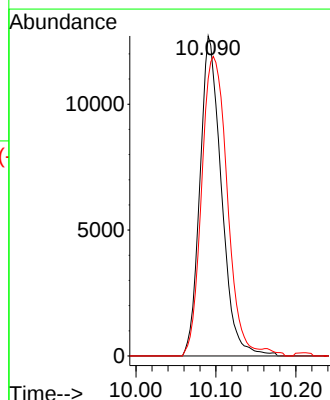
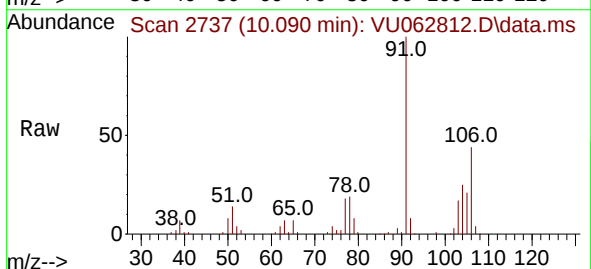
Tgt Ion:105 Resp: 23770

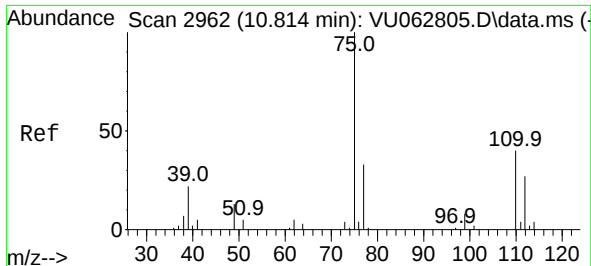
Ion Ratio Lower Upper

105 100

120 0.0 20.2 30.2#

77 111.3 13.0 19.4#





#61

1,2,3-Trichloropropane

Concen: 1.028 ug/L

RT: 10.103 min Scan# 21

Delta R.T. -0.710 min

Lab File: VU062812.D

Acq: 16 Jan 2025 12:09

Instrument :

MSVOA_U

ClientSampleId :

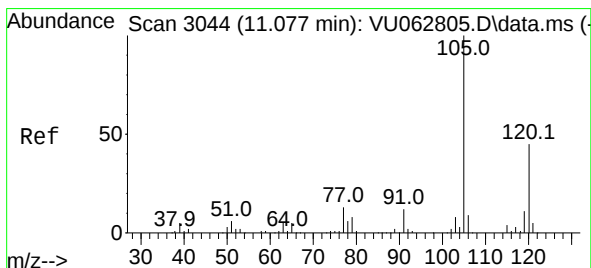
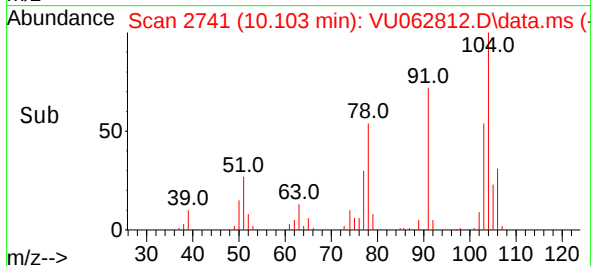
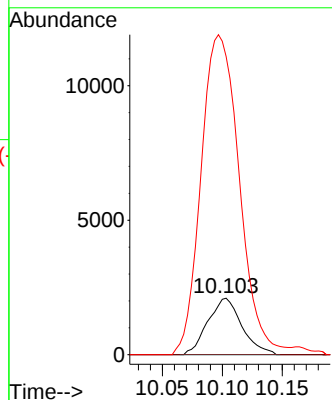
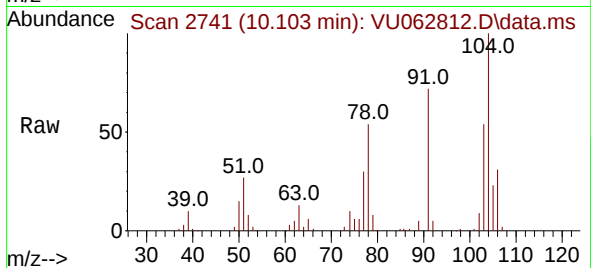
Tgt Ion: 75 Resp: 4148

Ion Ratio Lower Upper

75 100

110 0.0 33.2 49.8#

77 637.7 25.9 38.9#



#62

1,3,5-Trimethylbenzene

Concen: 0.892 ug/L

RT: 10.090 min Scan# 2737

Delta R.T. -0.987 min

Lab File: VU062812.D

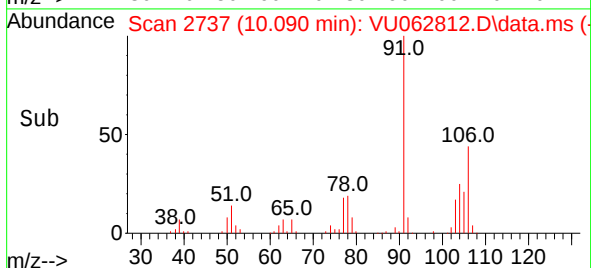
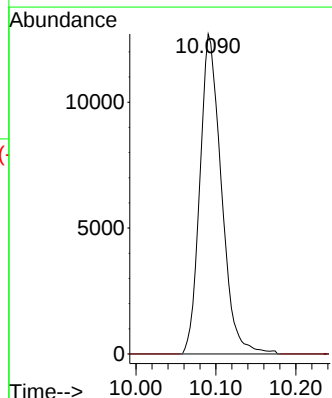
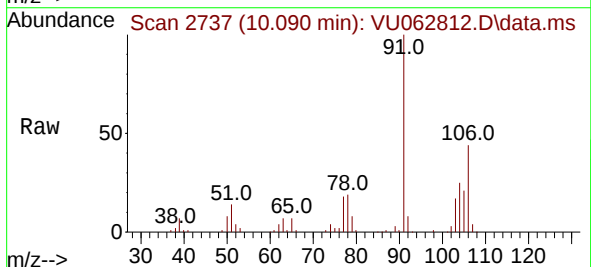
Acq: 16 Jan 2025 12:09

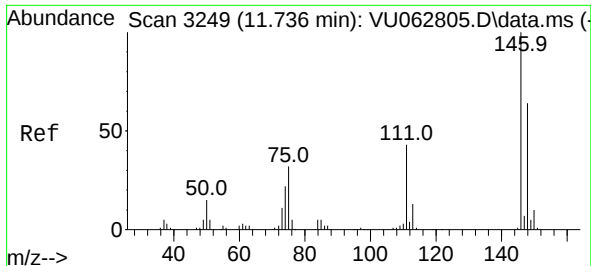
Tgt Ion: 105 Resp: 23770

Ion Ratio Lower Upper

105 100

120 0.0 35.9 53.9#





#64

1,3-Dichlorobenzene

Concen: 5.013 ug/L

RT: 11.827 min Scan# 3277

Delta R.T. 0.090 min

Lab File: VU062812.D

Acq: 16 Jan 2025 12:09

Instrument :

MSVOA_U

ClientSampleId :

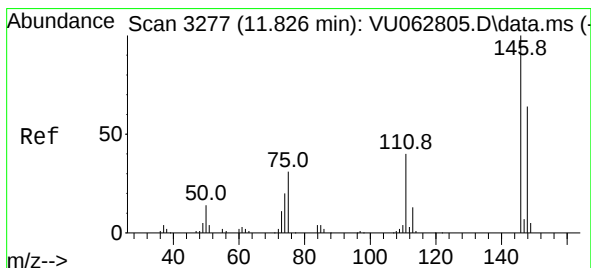
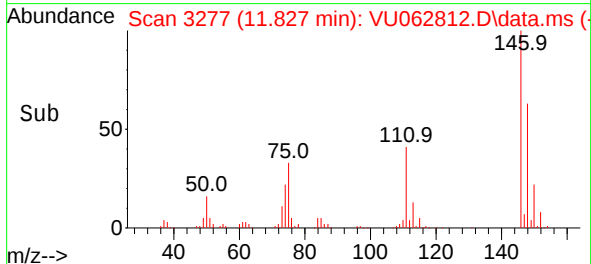
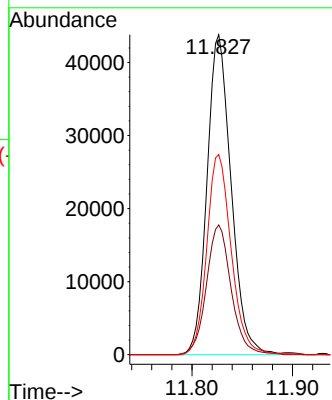
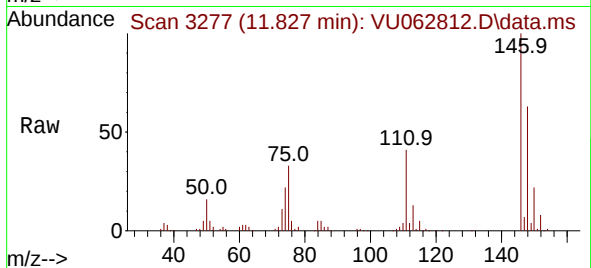
Tgt Ion:146 Resp: 72880

Ion Ratio Lower Upper

146 100

111 40.5 28.6 53.0

148 62.5 44.0 81.6



#65

1,4-Dichlorobenzene

Concen: 4.972 ug/L

RT: 11.827 min Scan# 3277

Delta R.T. 0.000 min

Lab File: VU062812.D

Acq: 16 Jan 2025 12:09

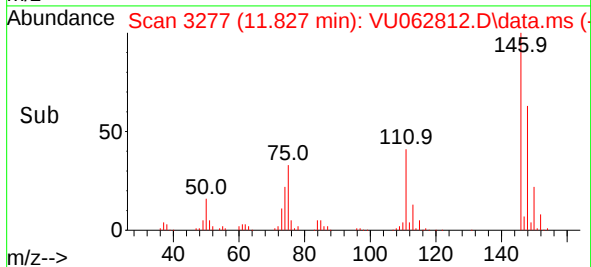
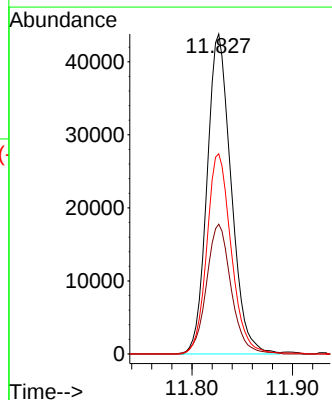
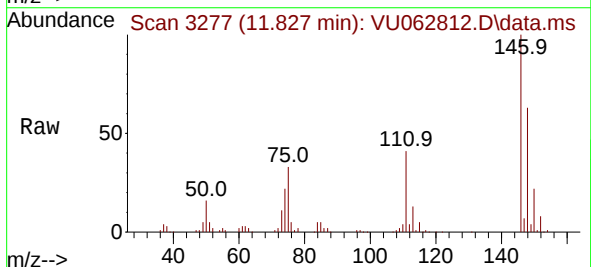
Tgt Ion:146 Resp: 72880

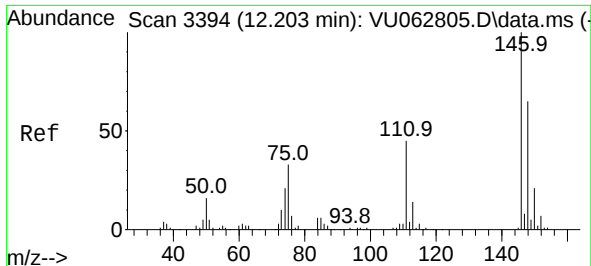
Ion Ratio Lower Upper

146 100

111 40.5 29.5 54.9

148 62.5 45.1 83.9





#67

1,2-Dichlorobenzene

Concen: 6.900 ug/L

RT: 12.203 min Scan# 3394

Delta R.T. 0.000 min

Lab File: VU062812.D

Acq: 16 Jan 2025 12:09

Instrument :

MSVOA_U

ClientSampleId :

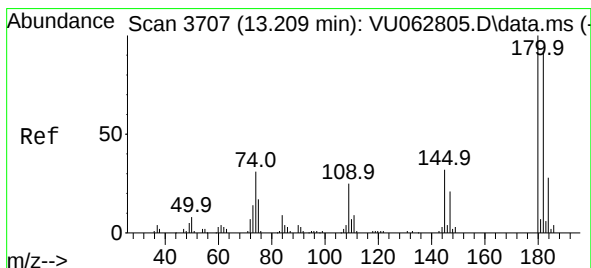
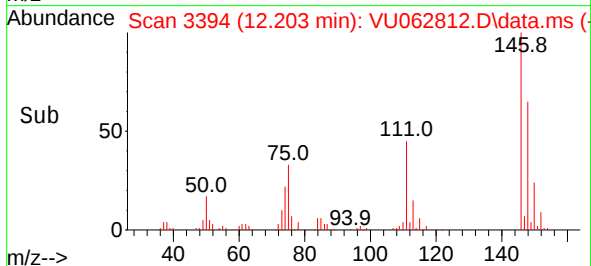
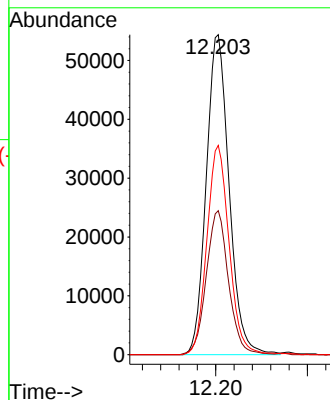
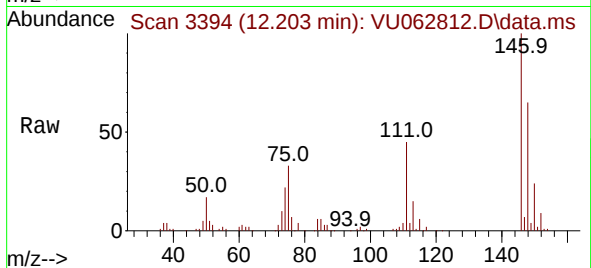
Tgt Ion:146 Resp: 94011

Ion Ratio Lower Upper

146 100

111 45.0 36.3 54.5

148 65.4 52.0 78.0



#69

1,3,5-Trichlorobenzene

Concen: 6.136 ug/L

RT: 13.833 min Scan# 3901

Delta R.T. 0.624 min

Lab File: VU062812.D

Acq: 16 Jan 2025 12:09

Tgt Ion:180 Resp: 67182

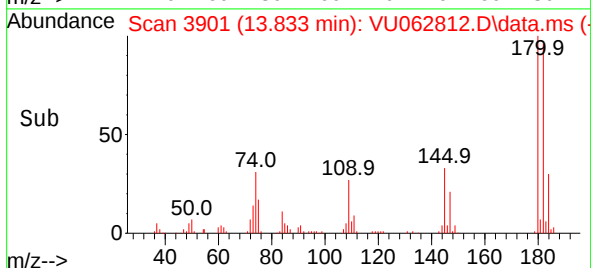
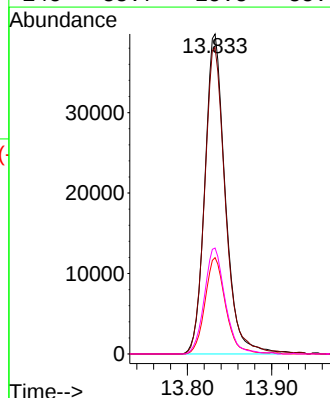
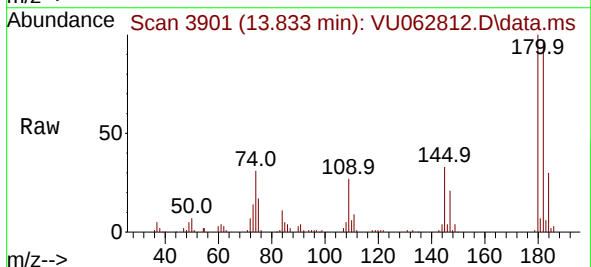
Ion Ratio Lower Upper

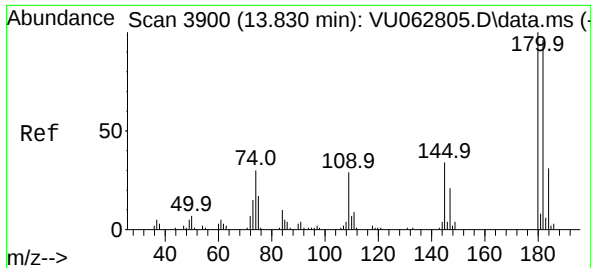
180 100

182 97.5 75.8 113.8

184 30.3 24.7 37.1

145 33.7 25.8 38.6





#70

1,2,4-trichlorobenzene

Concen: 7.619 ug/L

RT: 13.833 min Scan# 3901

Delta R.T. 0.003 min

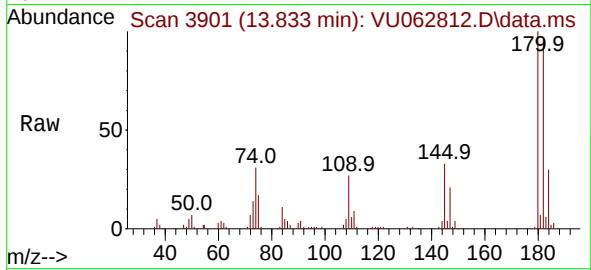
Lab File: VU062812.D

Acq: 16 Jan 2025 12:09

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:180 Resp: 67182

Ion Ratio Lower Upper

180 100

182 97.5 77.1 115.7

145 33.7 26.9 40.3

