

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU011625\
 Data File : VU062808.D
 Acq On : 16 Jan 2025 10:31
 Operator : MD/SY
 Sample : Q1072-18
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 16 22:03:58 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	6.239	114	95618	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.409	117	88668	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.804	152	47233	5.000	ug/L	0.00

System Monitoring Compounds						
4) Vinyl Chloride-d3	1.596	65	26172	4.942	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	98.800%
7) Chloroethane-d5	1.904	69	20252	4.754	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	95.000%
11) 1,1-Dichloroethene-d2	2.557	65	12726	4.639	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	92.800%
20) 2-Butanone-d5	4.605	46	52681	48.673	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	97.340%
24) Chloroform-d	5.049	84	62291	4.781	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.600%
26) 1,2-Dichloroethane-d4	5.692	65	35528	5.027	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.600%
32) Benzene-d6	5.718	84	108755	5.018	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.400%
36) 1,2-Dichloropropane-d6	6.679	67	30313	5.044	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.800%
41) Toluene-d8	7.888	98	102607	4.859	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.200%
43) trans-1,3-Dichloroprop...	8.171	79	14991	5.004	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	100.000%
46) 2-Hexanone-d5	8.621	63	45199	47.975	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	95.960%
56) 1,1,2,2-Tetrachloroeth...	10.746	84	24592	4.886	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.800%
66) 1,2-Dichlorobenzene-d4	12.184	152	40255	5.123	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	102.400%

Target Compounds					Qvalue
3) Chloromethane	1.599	50	1954	0.320 ug/L	# 40
5) Vinyl chloride	1.599	62	219786	31.930 ug/L	99
12) 1,1-Dichloroethene	2.570	96	65118	10.970 ug/L	86
16) Methylene chloride	3.033	84	67507	10.382 ug/L	98
18) trans-1,2-Dichloroethene	3.342	96	52370	8.235 ug/L	94
22) cis-1,2-Dichloroethene	4.653	96	77845	11.241 ug/L	97
27) 1,2-Dichloroethane	5.782	62	122851	13.427 ug/L	98
29) 1,1,1-Trichloroethane	5.303	97	226498	16.840 ug/L	99
31) Carbon tetrachloride	5.512	117	93487	7.563 ug/L	97
33) Benzene	5.763	78	373414	14.658 ug/L	100
34) Trichloroethene	6.531	95	29934	3.440 ug/L	96
37) 1,2-Dichloropropane	6.779	63	95613	15.910 ug/L	100
42) Toluene	7.959	91	316192	11.327 ug/L	99
45) 1,1,2-Trichloroethane	8.390	97	23444	4.803 ug/L	98
47) Tetrachloroethene	8.544	164	96381	16.080 ug/L	97
49) Dibromochloromethane	8.544	129	93804	14.314 ug/L	# 12
51) Chlorobenzene	9.438	112	228044	12.492 ug/L	99
52) Ethylbenzene	9.560	91	529481	16.714 ug/L	97
53) m,p-Xylene	9.682	106	233495	19.708 ug/L	100

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

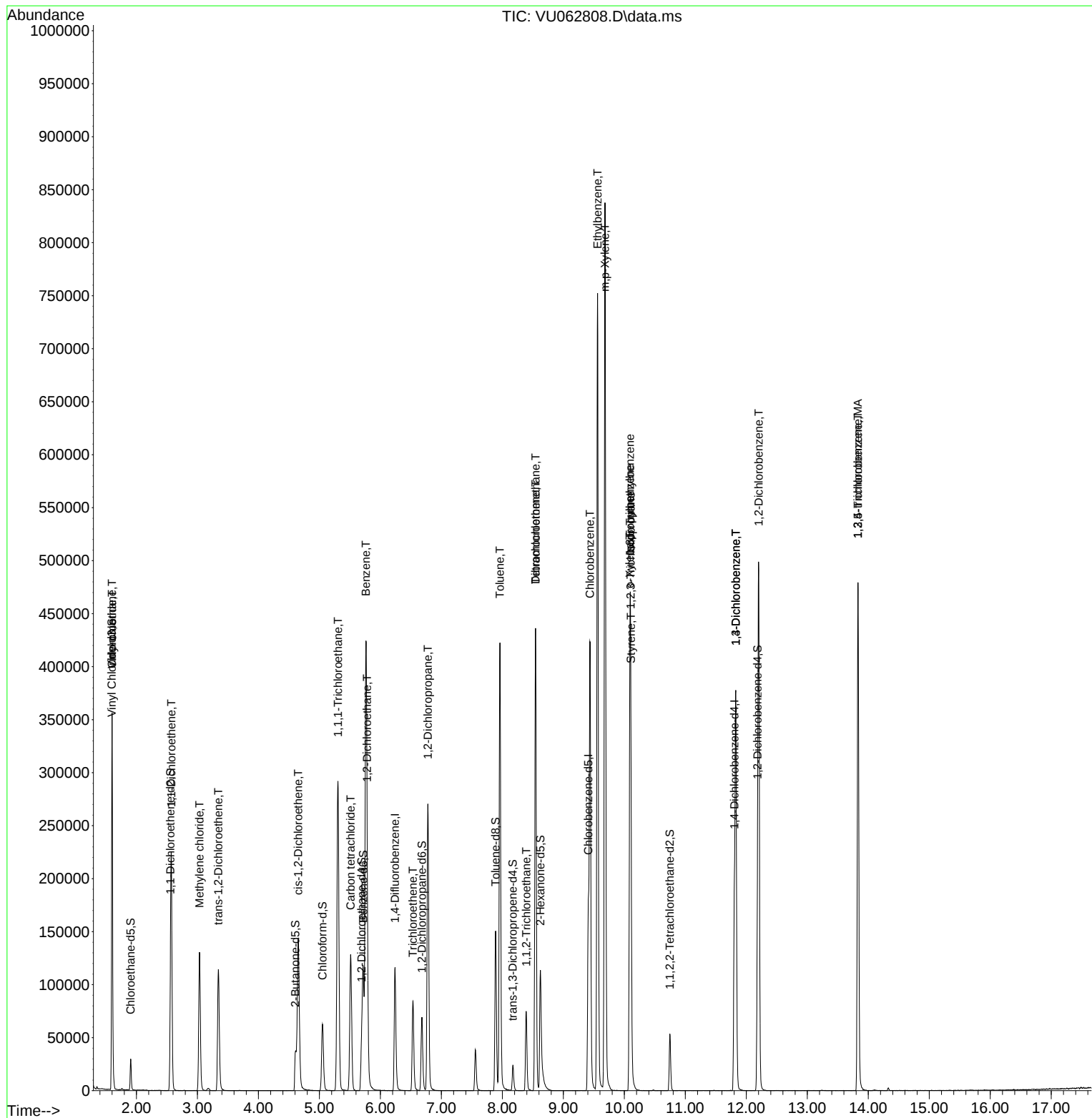
54) o-Xylene	10.090	106	86349	7.609	ug/L	96
55) Styrene	10.107	104	141805	7.470	ug/L	99
60) Isopropylbenzene	10.094	105	49496	1.521	ug/L #	1
61) 1,2,3-Trichloropropane	10.103	75	8604	2.054	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.094	105	49496	1.789	ug/L #	31
64) 1,3-Dichlorobenzene	11.827	146	148993	9.874	ug/L	97
65) 1,4-Dichlorobenzene	11.827	146	148993	9.792	ug/L	99
67) 1,2-Dichlorobenzene	12.203	146	193713	13.697	ug/L	99
69) 1,3,5-Trichlorobenzene	13.830	180	152940	13.457	ug/L	99
70) 1,2,4-trichlorobenzene	13.830	180	152940	16.709	ug/L	99

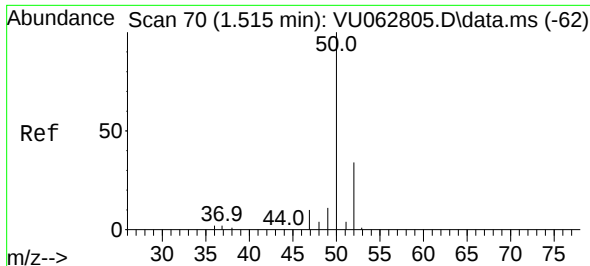
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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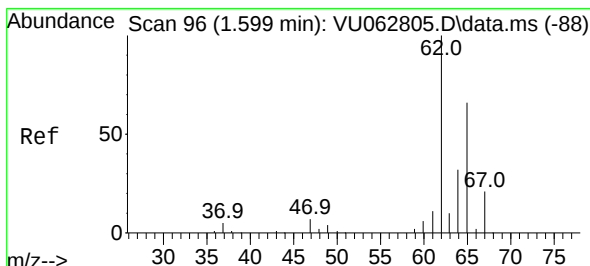
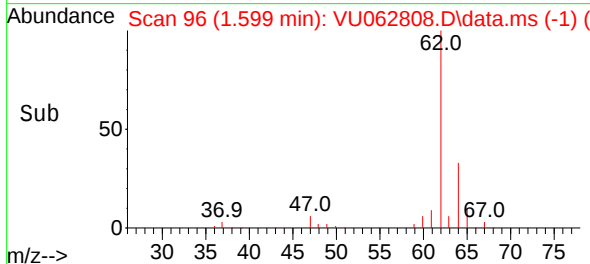
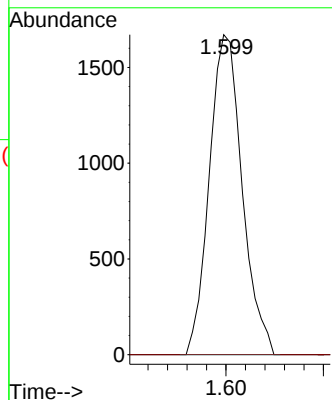
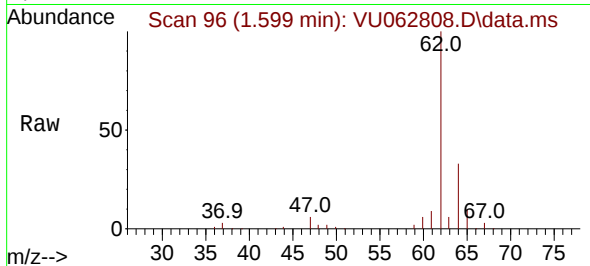




#3
Chloromethane
Concen: 0.320 ug/L
RT: 1.599 min Scan# 90
Delta R.T. 0.084 min
Lab File: VU062808.D
Acq: 16 Jan 2025 10:31

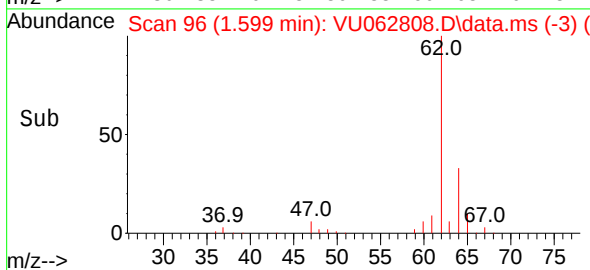
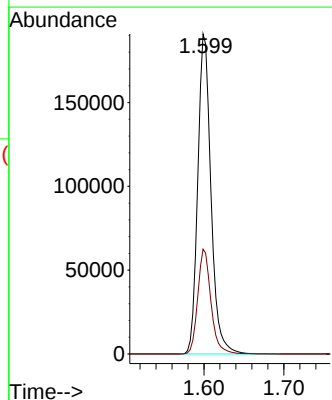
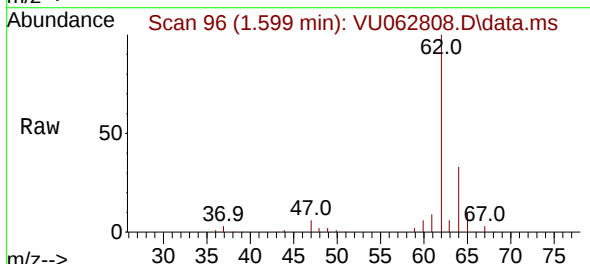
Instrument :
MSVOA_U
ClientSampleId :

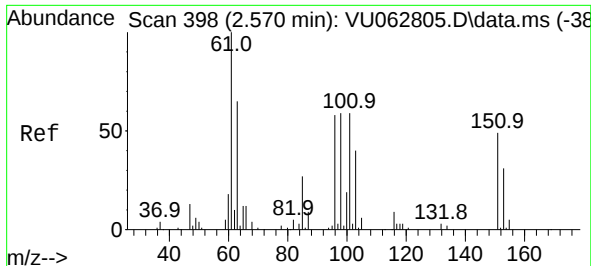
Tgt Ion: 50 Resp: 1954
Ion Ratio Lower Upper
50 100
52 0.0 24.1 44.7#



#5
Vinyl chloride
Concen: 31.930 ug/L
RT: 1.599 min Scan# 96
Delta R.T. 0.000 min
Lab File: VU062808.D
Acq: 16 Jan 2025 10:31

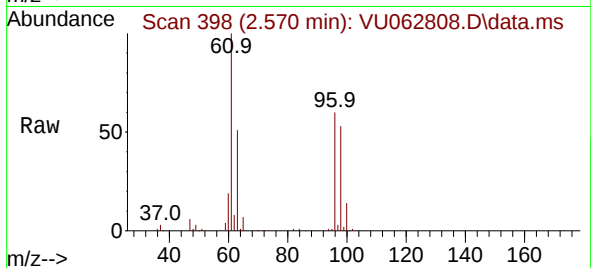
Tgt Ion: 62 Resp: 219786
Ion Ratio Lower Upper
62 100
64 32.7 23.4 43.4



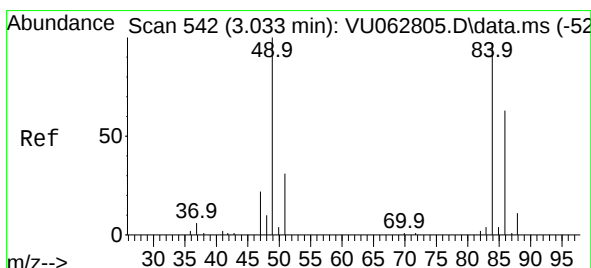
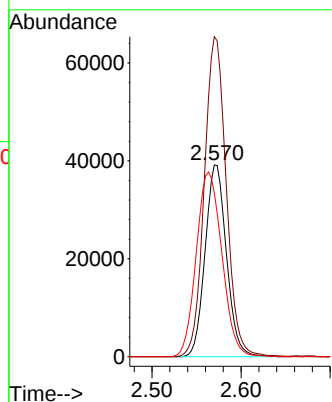
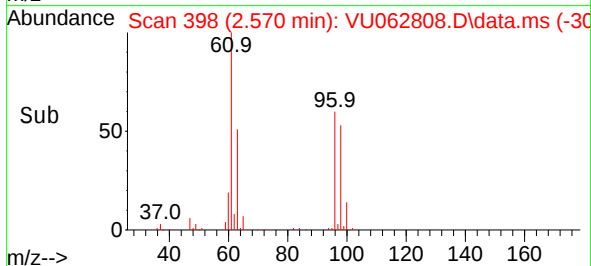


#12
1,1-Dichloroethene
Concen: 10.970 ug/L
RT: 2.570 min Scan# 398
Delta R.T. 0.000 min
Lab File: VU062808.D
Acq: 16 Jan 2025 10:31

Instrument :
MSVOA_U
ClientSampleId :

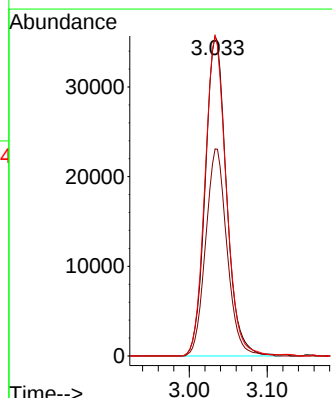
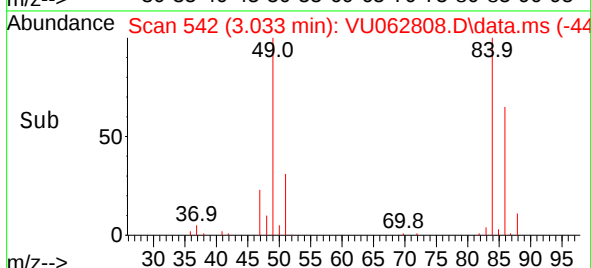
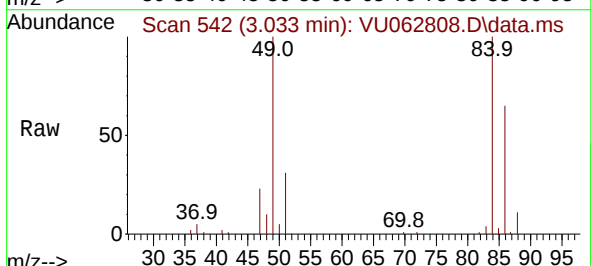


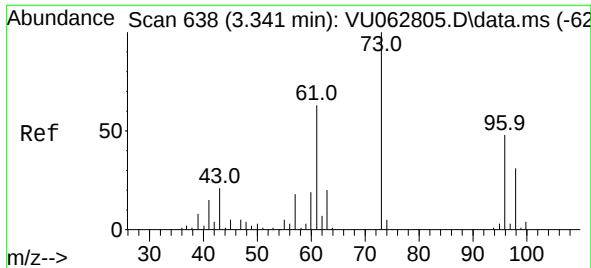
Tgt Ion: 96 Resp: 65118
Ion Ratio Lower Upper
96 100
61 166.9 120.4 223.6
63 85.5 82.3 152.9



#16
Methylene chloride
Concen: 10.382 ug/L
RT: 3.033 min Scan# 542
Delta R.T. 0.000 min
Lab File: VU062808.D
Acq: 16 Jan 2025 10:31

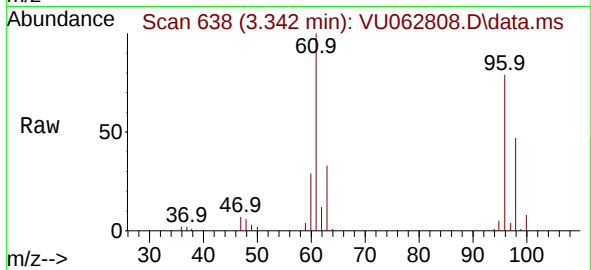
Tgt Ion: 84 Resp: 67507
Ion Ratio Lower Upper
84 100
86 64.7 44.7 83.1
49 100.0 68.3 126.9



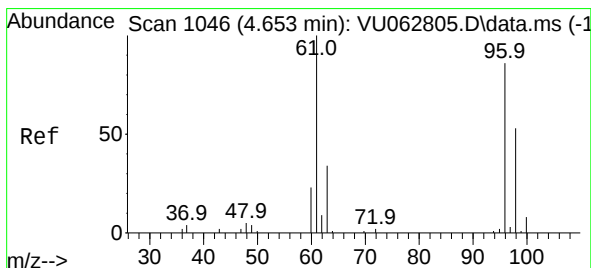
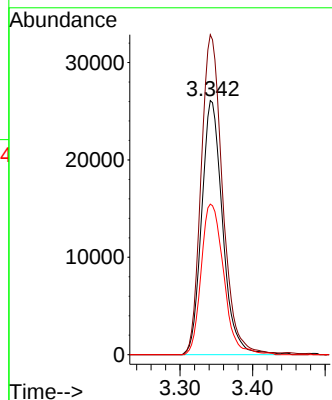
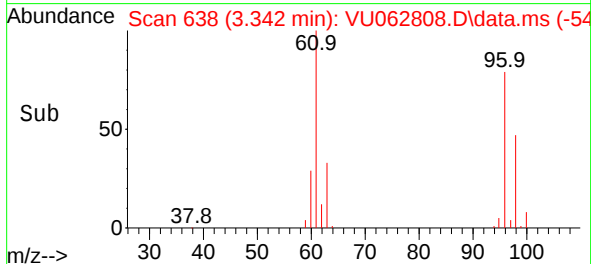


#18
trans-1,2-Dichloroethene
Concen: 8.235 ug/L
RT: 3.342 min Scan# 61
Delta R.T. 0.000 min
Lab File: VU062808.D
Acq: 16 Jan 2025 10:31

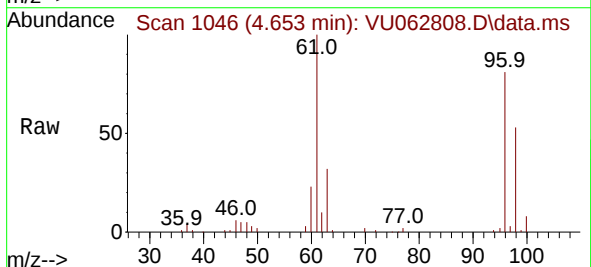
Instrument :
MSVOA_U
ClientSampleId :



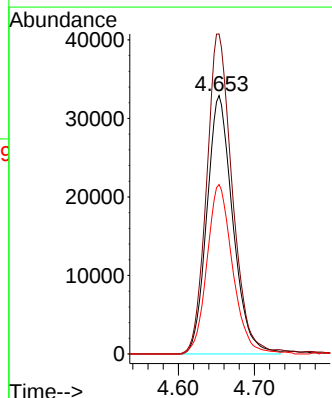
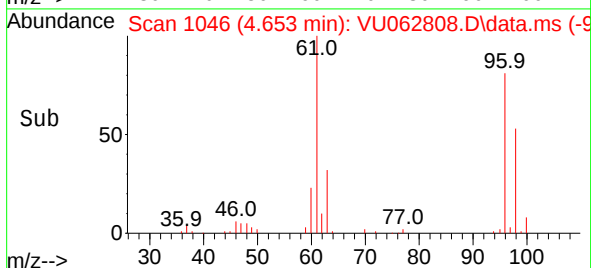
Tgt Ion: 96 Resp: 52370
Ion Ratio Lower Upper
96 100
61 125.9 94.4 175.2
98 59.2 42.8 79.4

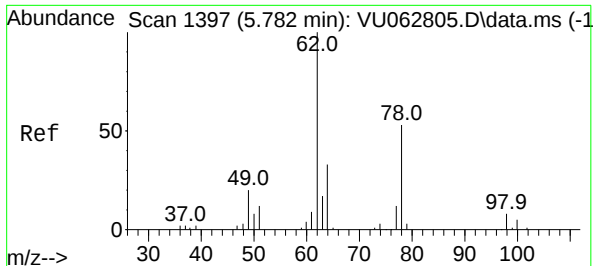


#22
cis-1,2-Dichloroethene
Concen: 11.241 ug/L
RT: 4.653 min Scan# 1046
Delta R.T. 0.000 min
Lab File: VU062808.D
Acq: 16 Jan 2025 10:31



Tgt Ion: 96 Resp: 77845
Ion Ratio Lower Upper
96 100
61 123.8 84.8 157.6
98 65.6 43.1 80.1

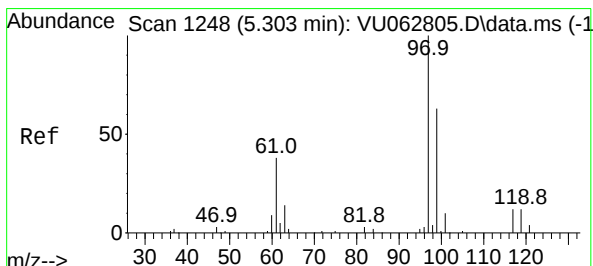
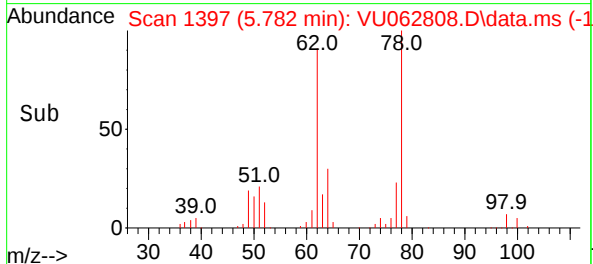
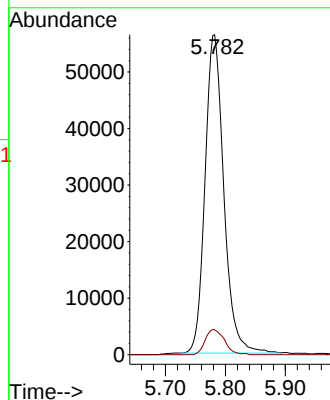
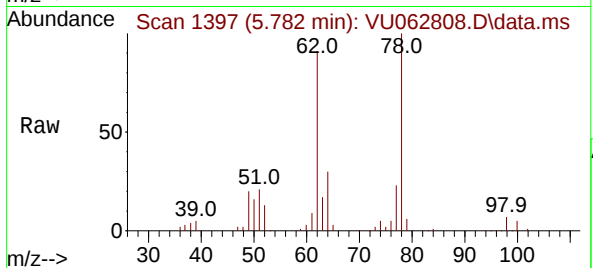




#27
1,2-Dichloroethane
Concen: 13.427 ug/L
RT: 5.782 min Scan# 1397
Delta R.T. 0.000 min
Lab File: VU062808.D
Acq: 16 Jan 2025 10:31

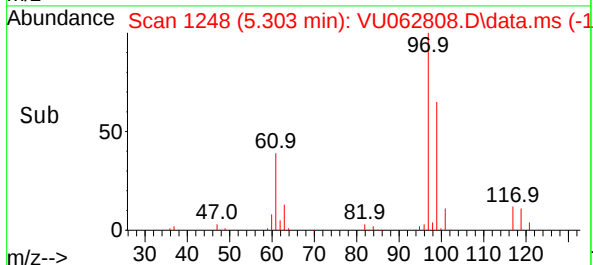
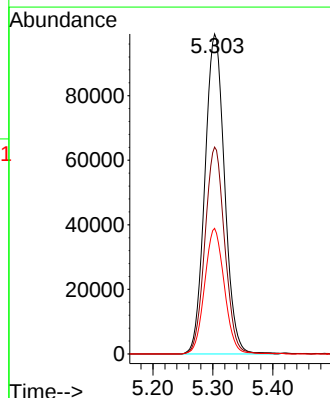
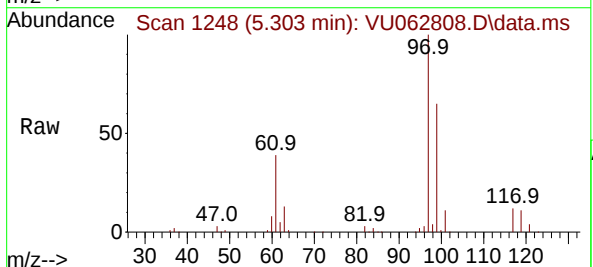
Instrument :
MSVOA_U
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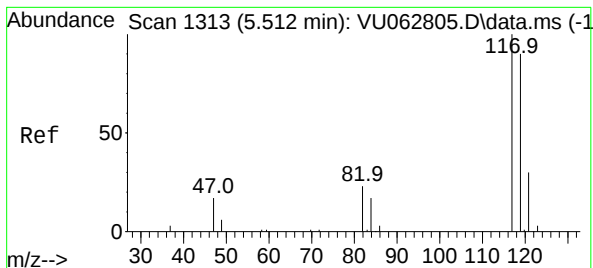
Tgt Ion: 62 Resp: 122851
Ion Ratio Lower Upper
62 100
98 7.8 5.8 8.6



#29
1,1,1-Trichloroethane
Concen: 16.840 ug/L
RT: 5.303 min Scan# 1248
Delta R.T. 0.000 min
Lab File: VU062808.D
Acq: 16 Jan 2025 10:31

Tgt Ion: 97 Resp: 226498
Ion Ratio Lower Upper
97 100
99 64.7 52.4 78.6
61 39.2 32.2 48.4





#31

Carbon tetrachloride

Concen: 7.563 ug/L

RT: 5.512 min Scan# 1313

Delta R.T. 0.000 min

Lab File: VU062808.D

Acq: 16 Jan 2025 10:31

Instrument :

MSVOA_U

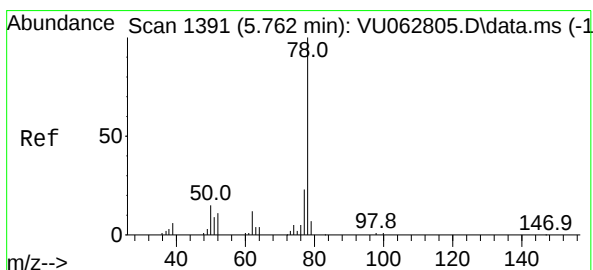
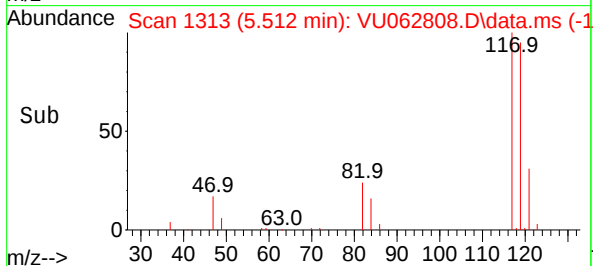
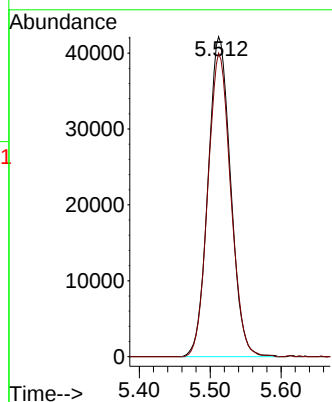
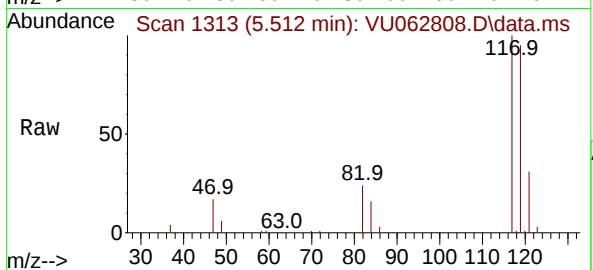
ClientSampleId :

Tgt Ion:117 Resp: 93487

Ion Ratio Lower Upper

117 100

119 95.8 78.6 118.0



#33

Benzene

Concen: 14.658 ug/L

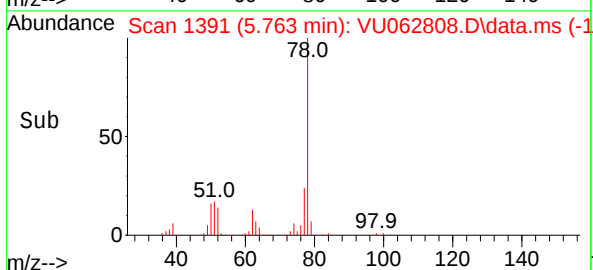
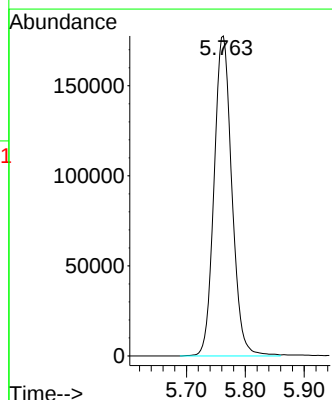
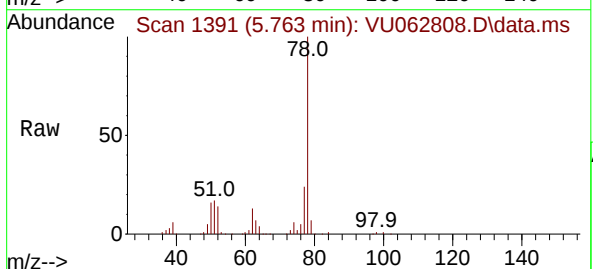
RT: 5.763 min Scan# 1391

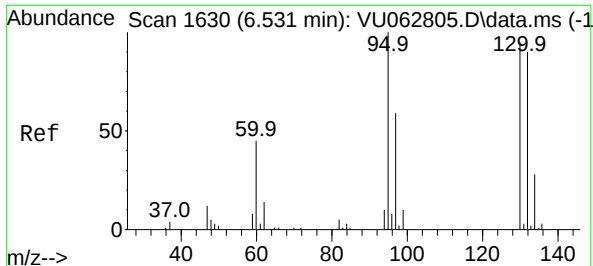
Delta R.T. 0.000 min

Lab File: VU062808.D

Acq: 16 Jan 2025 10:31

Tgt Ion: 78 Resp: 373414





#34

Trichloroethene

Concen: 3.440 ug/L

RT: 6.531 min Scan# 1

Delta R.T. 0.000 min

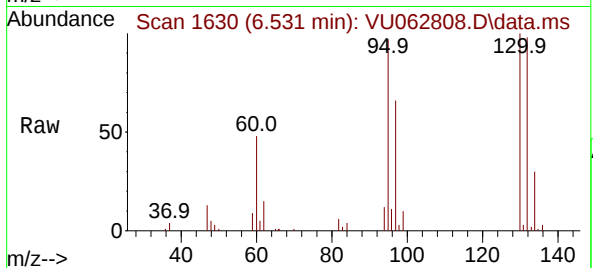
Lab File: VU062808.D

Acq: 16 Jan 2025 10:31

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion: 95 Resp: 29934

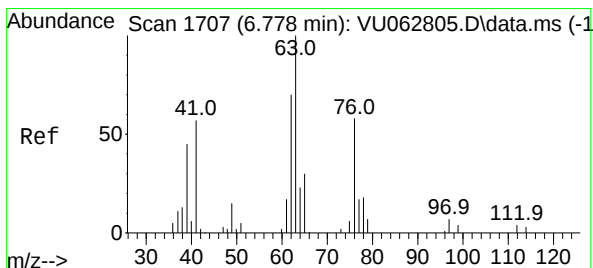
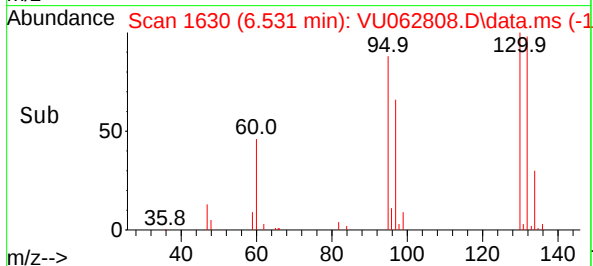
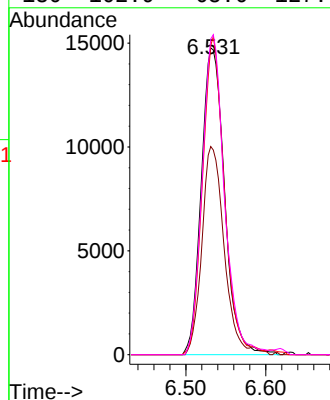
Ion Ratio Lower Upper

95 100

97 67.8 47.5 88.3

132 100.8 66.9 124.3

130 102.9 68.6 127.4



#37

1,2-Dichloropropane

Concen: 15.910 ug/L

RT: 6.779 min Scan# 1707

Delta R.T. 0.000 min

Lab File: VU062808.D

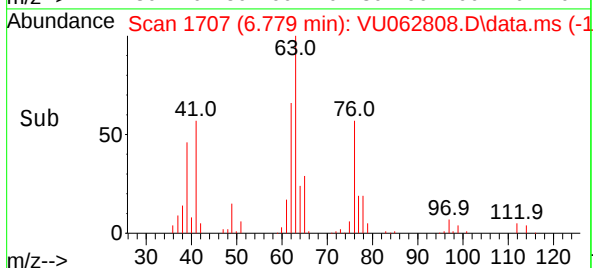
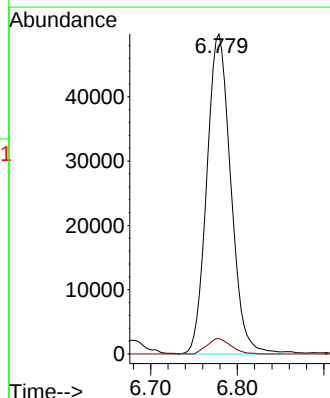
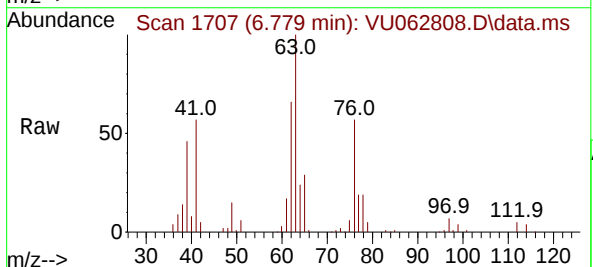
Acq: 16 Jan 2025 10:31

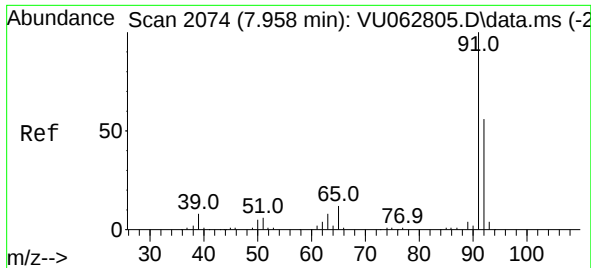
Tgt Ion: 63 Resp: 95613

Ion Ratio Lower Upper

63 100

112 4.8 3.8 5.8





#42

Toluene

Concen: 11.327 ug/L

RT: 7.959 min Scan# 2074

Delta R.T. 0.000 min

Lab File: VU062808.D

Acq: 16 Jan 2025 10:31

Instrument :

MSVOA_U

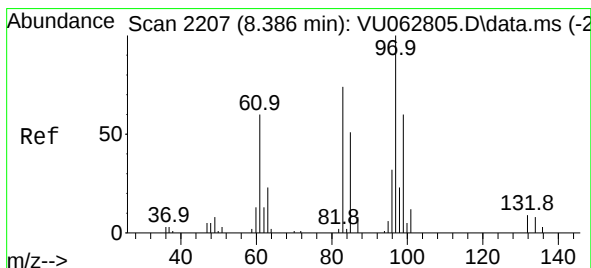
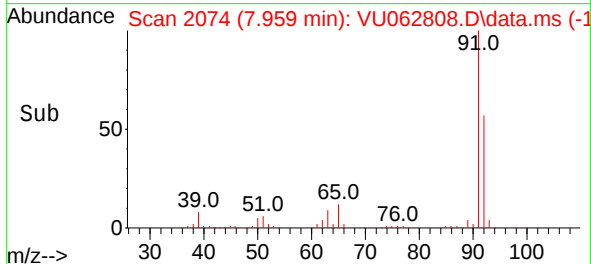
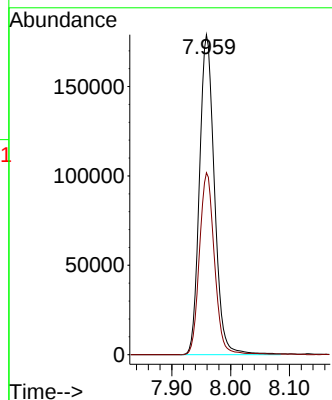
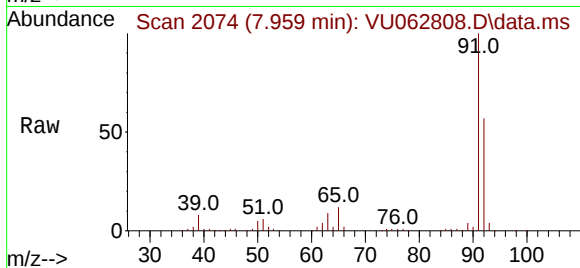
ClientSampleId :

Tgt Ion: 91 Resp: 316192

Ion Ratio Lower Upper

91 100

92 56.8 40.4 75.0



#45

1,1,2-Trichloroethane

Concen: 4.803 ug/L

RT: 8.390 min Scan# 2208

Delta R.T. 0.003 min

Lab File: VU062808.D

Acq: 16 Jan 2025 10:31

Tgt Ion: 97 Resp: 23444

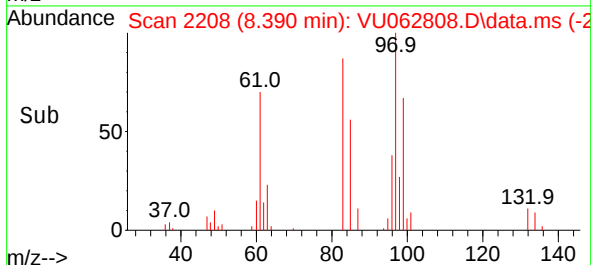
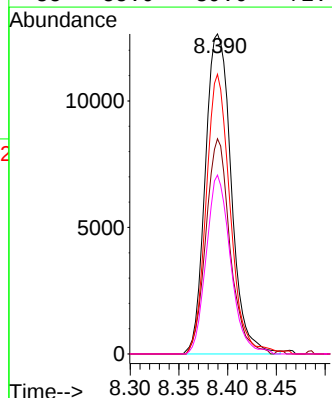
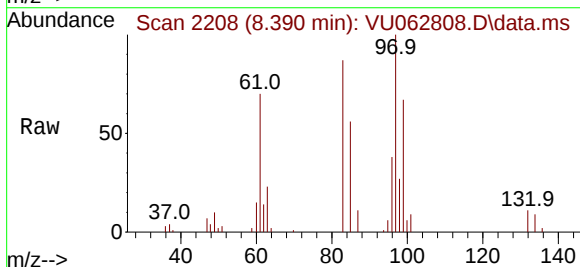
Ion Ratio Lower Upper

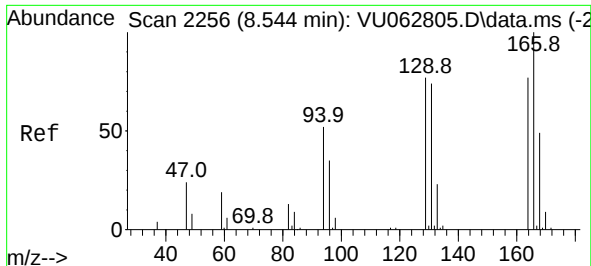
97 100

99 67.3 45.6 84.6

83 87.4 63.0 117.0

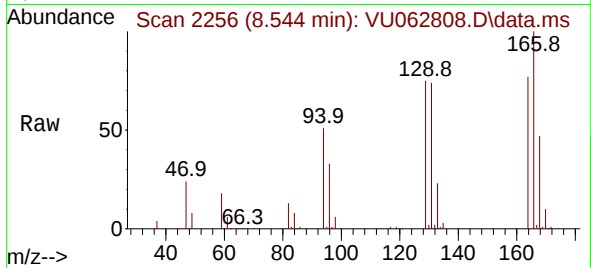
85 55.9 39.0 72.4



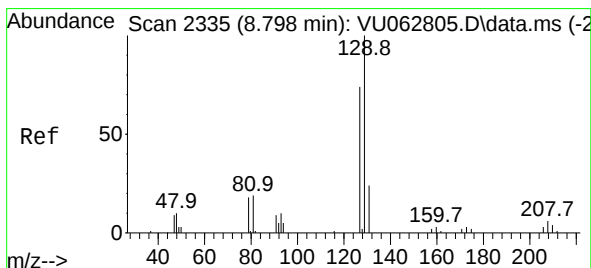
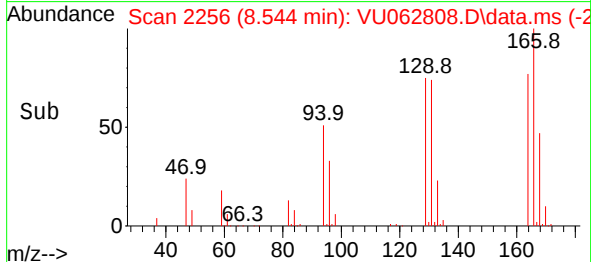
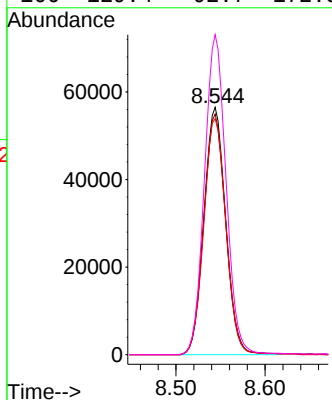


#47
Tetrachloroethene
Concen: 16.080 ug/L
RT: 8.544 min Scan# 2256
Delta R.T. 0.000 min
Lab File: VU062808.D
Acq: 16 Jan 2025 10:31

Instrument :
MSVOA_U
ClientSampleId :

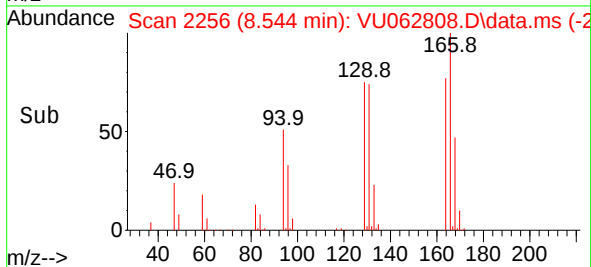
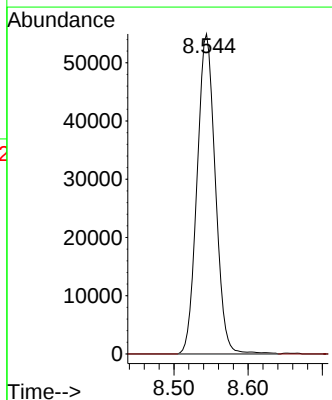
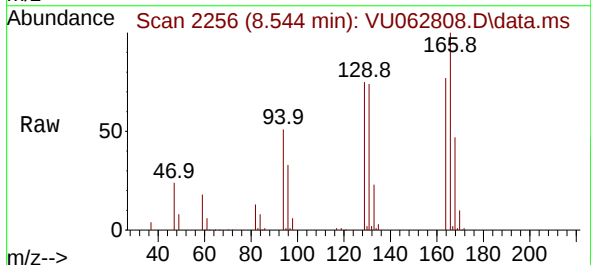


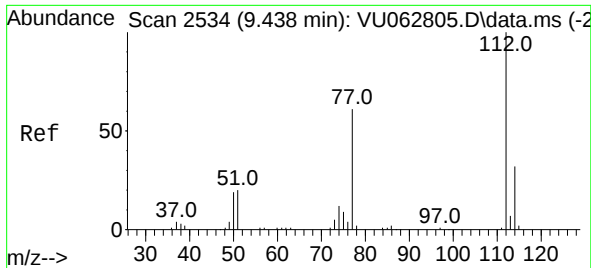
Tgt Ion:164 Resp: 96381
Ion Ratio Lower Upper
164 100
129 97.3 71.0 131.9
131 95.4 69.4 129.0
166 129.4 92.7 172.3



#49
Dibromochloromethane
Concen: 14.314 ug/L
RT: 8.544 min Scan# 2256
Delta R.T. -0.254 min
Lab File: VU062808.D
Acq: 16 Jan 2025 10:31

Tgt Ion:129 Resp: 93804
Ion Ratio Lower Upper
129 100
127 0.0 52.1 96.9#

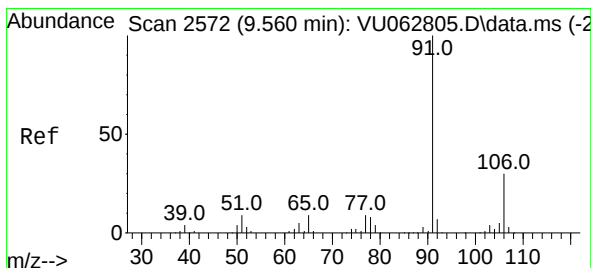
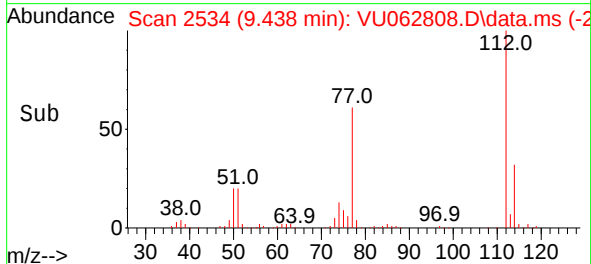
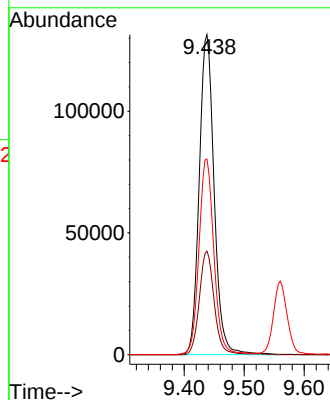
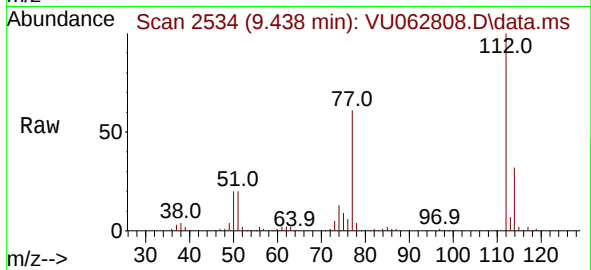




#51
Chlorobenzene
Concen: 12.492 ug/L
RT: 9.438 min Scan# 2534
Delta R.T. 0.000 min
Lab File: VU062808.D
Acq: 16 Jan 2025 10:31

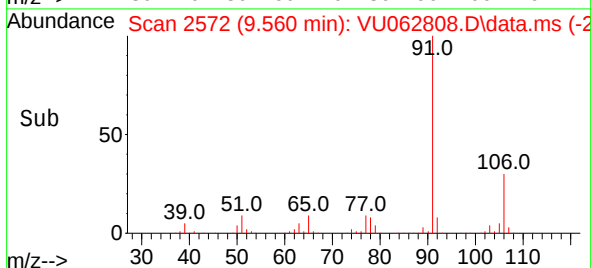
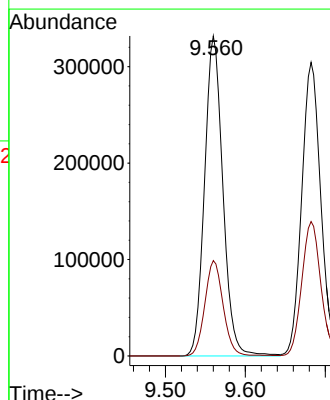
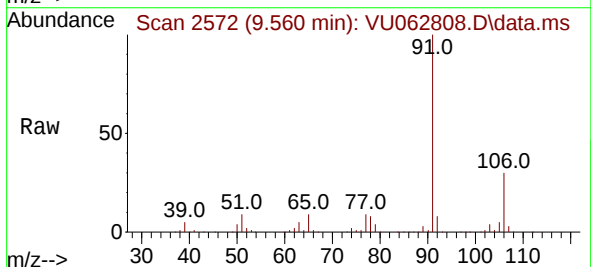
Instrument :
MSVOA_U
ClientSampleId :

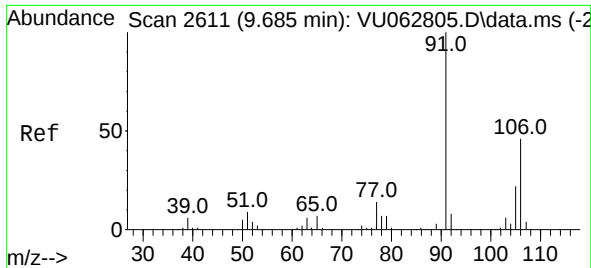
Tgt Ion:112 Resp: 228044
Ion Ratio Lower Upper
112 100
114 32.3 21.7 40.3
77 61.2 48.6 73.0



#52
Ethylbenzene
Concen: 16.714 ug/L
RT: 9.560 min Scan# 2572
Delta R.T. 0.000 min
Lab File: VU062808.D
Acq: 16 Jan 2025 10:31

Tgt Ion: 91 Resp: 529481
Ion Ratio Lower Upper
91 100
106 29.8 21.9 40.7

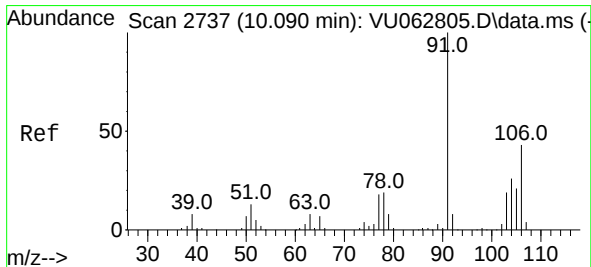
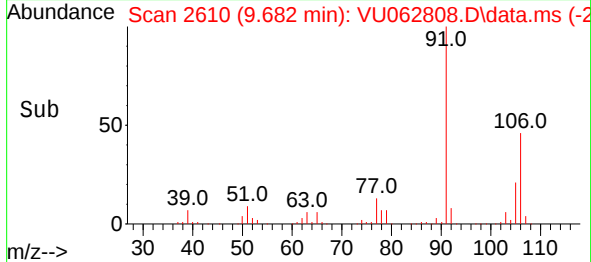
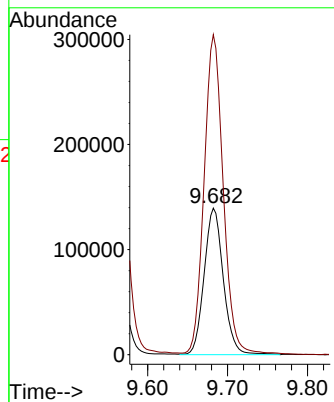
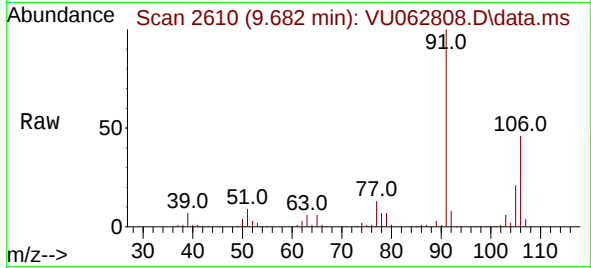




#53
m,p-Xylene
Concen: 19.708 ug/L
RT: 9.682 min Scan# 2610
Delta R.T. -0.003 min
Lab File: VU062808.D
Acq: 16 Jan 2025 10:31

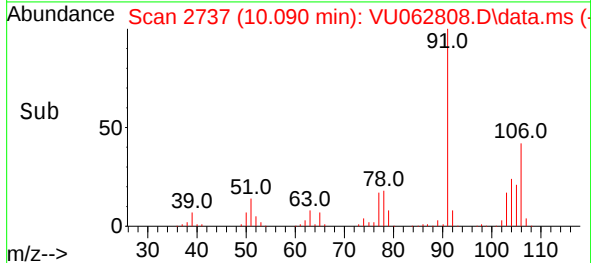
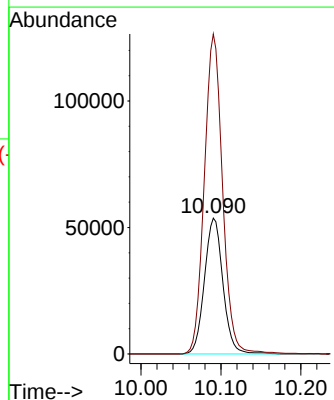
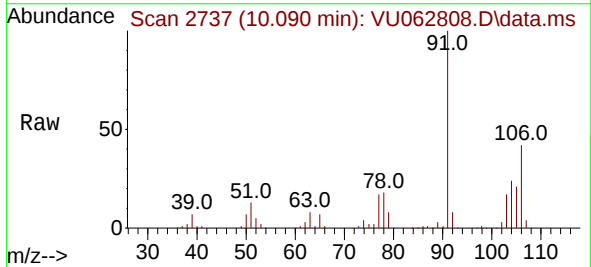
Instrument :
MSVOA_U
ClientSampleId :

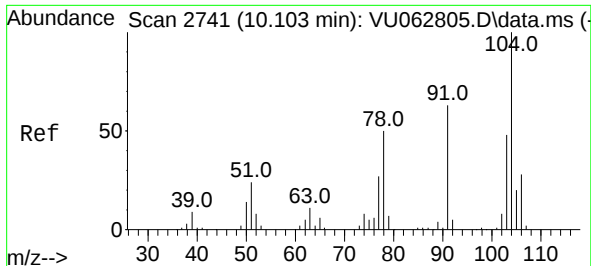
Tgt Ion:106 Resp: 233495
Ion Ratio Lower Upper
106 100
91 218.4 153.1 284.3



#54
o-Xylene
Concen: 7.609 ug/L
RT: 10.090 min Scan# 2737
Delta R.T. 0.000 min
Lab File: VU062808.D
Acq: 16 Jan 2025 10:31

Tgt Ion:106 Resp: 86349
Ion Ratio Lower Upper
106 100
91 235.6 160.4 297.8





#55

Styrene

Concen: 7.470 ug/L

RT: 10.107 min Scan# 21

Delta R.T. 0.003 min

Lab File: VU062808.D

Acq: 16 Jan 2025 10:31

Instrument :

MSVOA_U

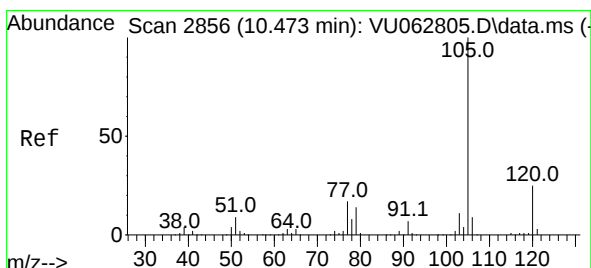
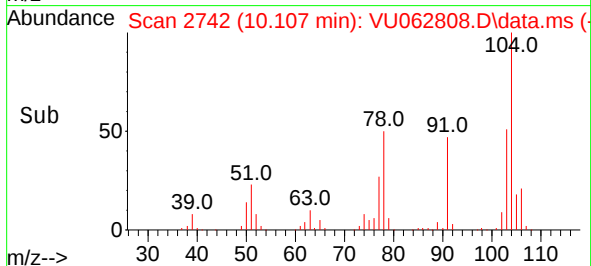
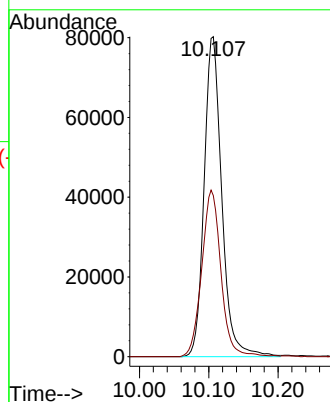
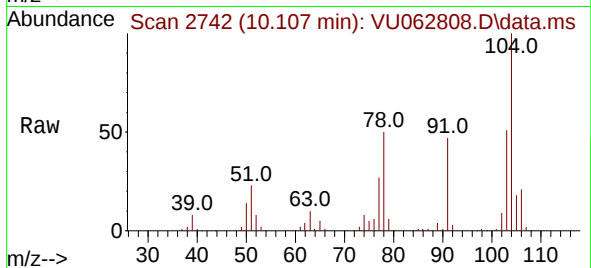
ClientSampleId :

Tgt Ion:104 Resp: 141805

Ion Ratio Lower Upper

104 100

78 50.3 35.5 65.9



#60

Isopropylbenzene

Concen: 1.521 ug/L

RT: 10.094 min Scan# 2738

Delta R.T. -0.379 min

Lab File: VU062808.D

Acq: 16 Jan 2025 10:31

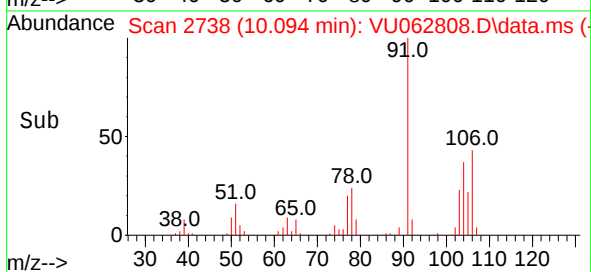
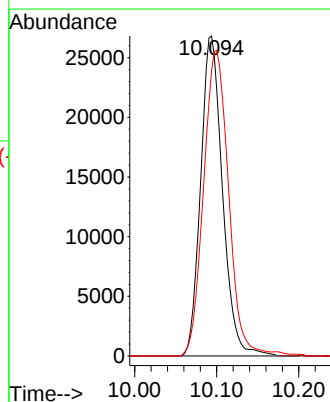
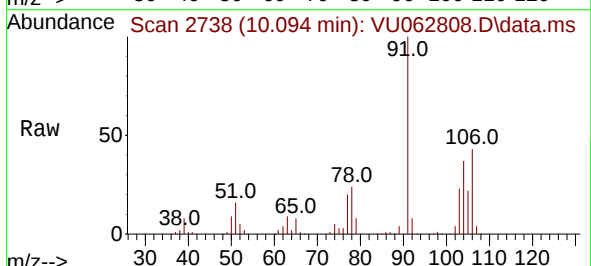
Tgt Ion:105 Resp: 49496

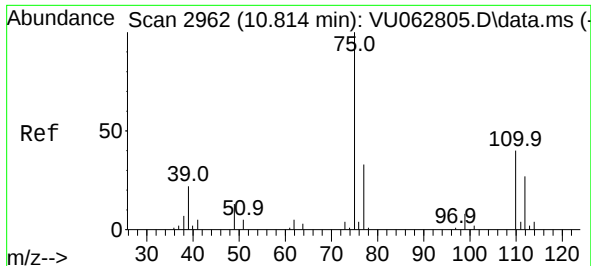
Ion Ratio Lower Upper

105 100

120 0.0 20.2 30.2#

77 110.2 13.0 19.4#

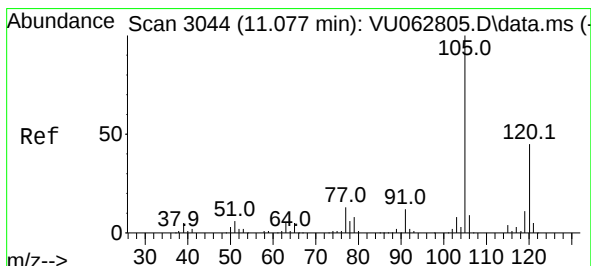
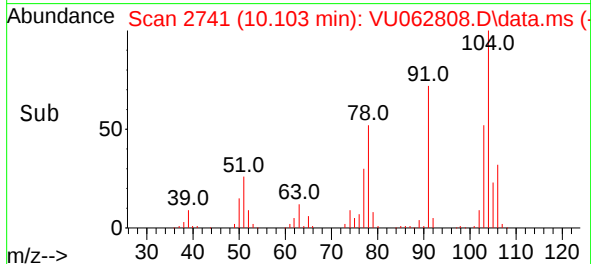
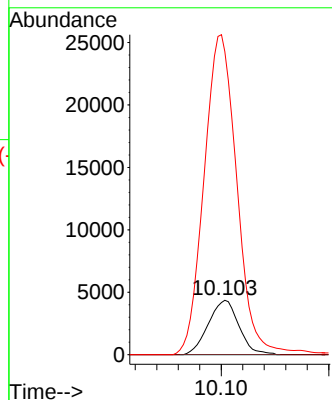
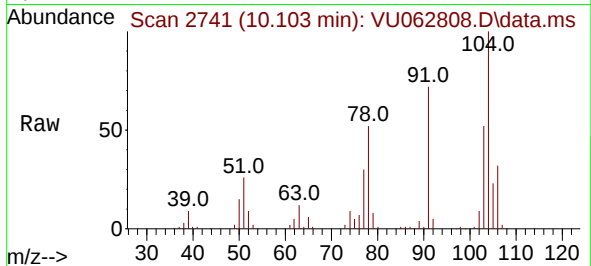




#61
1,2,3-Trichloropropane
Concen: 2.054 ug/L
RT: 10.103 min Scan# 21
Delta R.T. -0.710 min
Lab File: VU062808.D
Acq: 16 Jan 2025 10:31

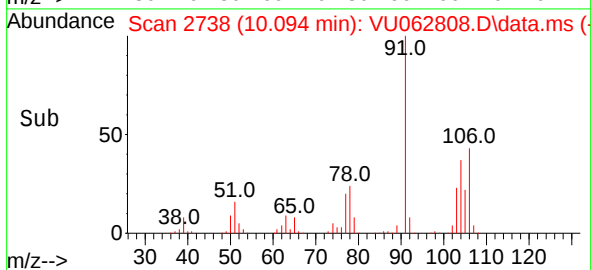
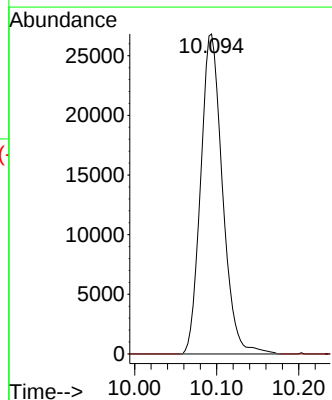
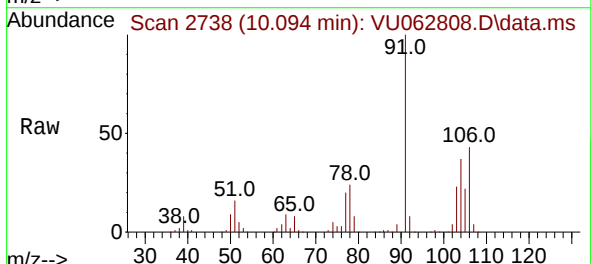
Instrument :
MSVOA_U
ClientSampleId :

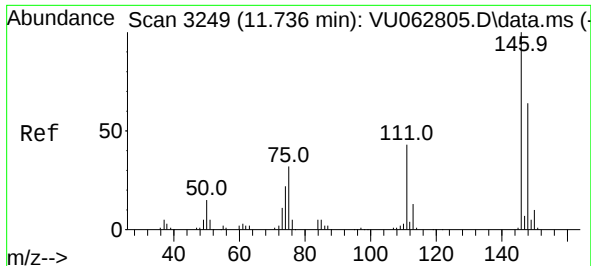
Tgt Ion: 75 Resp: 8604
Ion Ratio Lower Upper
75 100
110 0.0 33.2 49.8#
77 634.1 25.9 38.9#



#62
1,3,5-Trimethylbenzene
Concen: 1.789 ug/L
RT: 10.094 min Scan# 2738
Delta R.T. -0.984 min
Lab File: VU062808.D
Acq: 16 Jan 2025 10:31

Tgt Ion:105 Resp: 49496
Ion Ratio Lower Upper
105 100
120 0.0 35.9 53.9#





#64

1,3-Dichlorobenzene

Concen: 9.874 ug/L

RT: 11.827 min Scan# 3277

Delta R.T. 0.090 min

Lab File: VU062808.D

Acq: 16 Jan 2025 10:31

Instrument :

MSVOA_U

ClientSampleId :

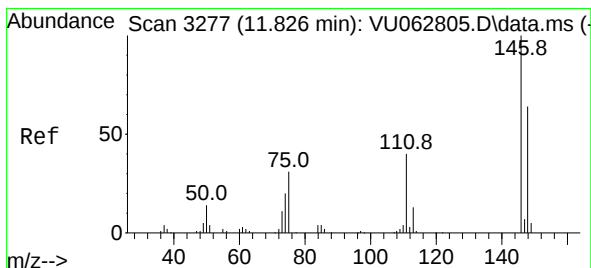
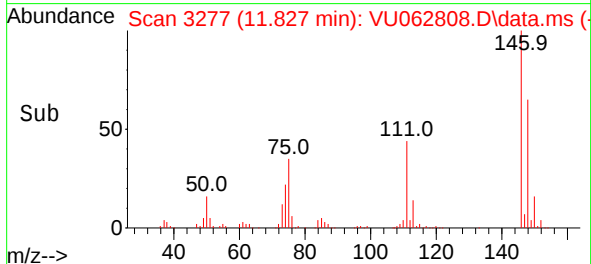
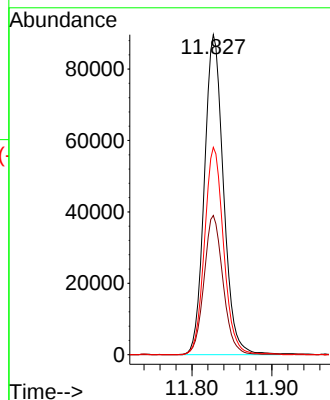
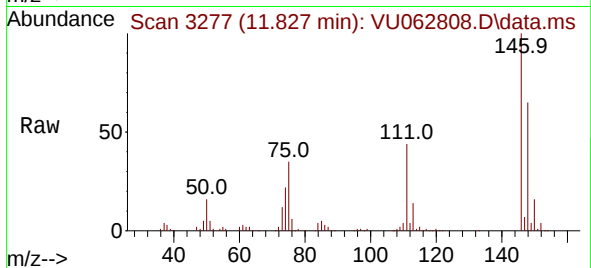
Tgt Ion:146 Resp: 148993

Ion Ratio Lower Upper

146 100

111 43.5 28.6 53.0

148 64.8 44.0 81.6



#65

1,4-Dichlorobenzene

Concen: 9.792 ug/L

RT: 11.827 min Scan# 3277

Delta R.T. 0.000 min

Lab File: VU062808.D

Acq: 16 Jan 2025 10:31

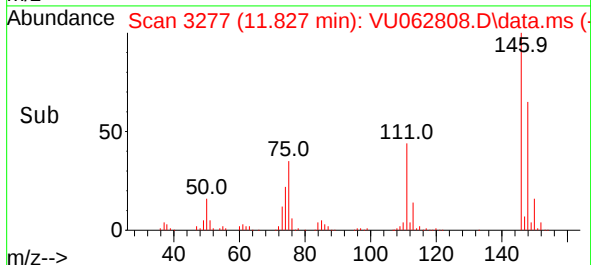
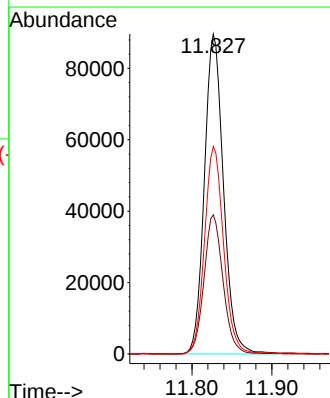
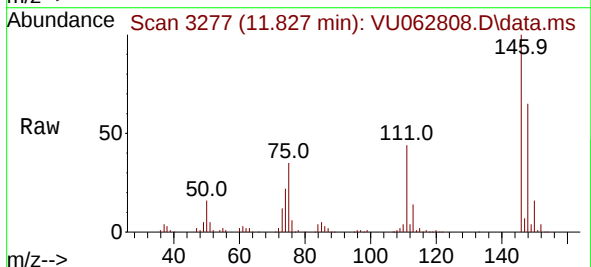
Tgt Ion:146 Resp: 148993

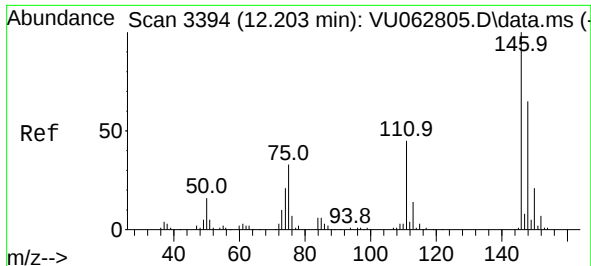
Ion Ratio Lower Upper

146 100

111 43.5 29.5 54.9

148 64.8 45.1 83.9





#67

1,2-Dichlorobenzene

Concen: 13.697 ug/L

RT: 12.203 min Scan# 3394

Delta R.T. 0.000 min

Lab File: VU062808.D

Acq: 16 Jan 2025 10:31

Instrument :

MSVOA_U

ClientSampleId :

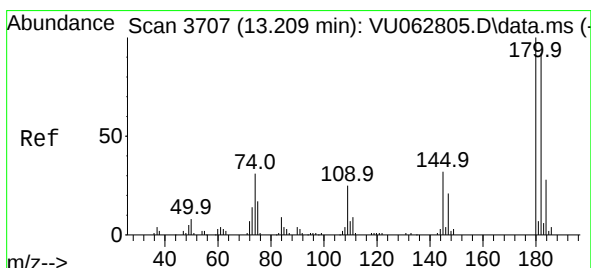
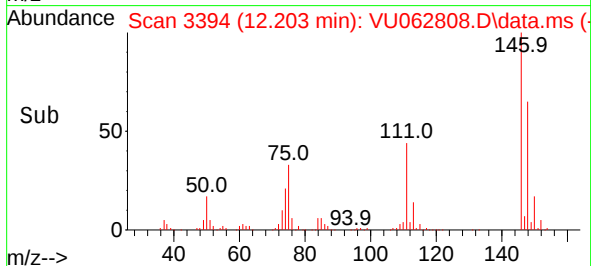
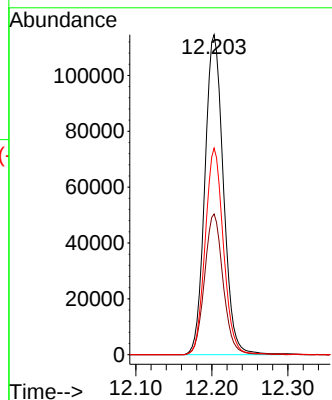
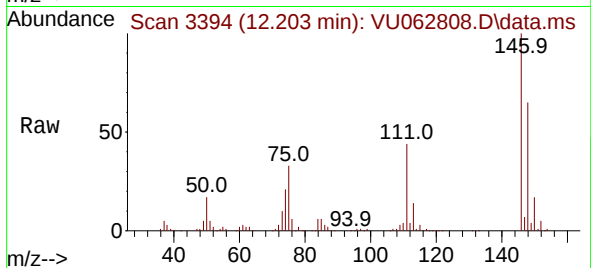
Tgt Ion:146 Resp: 193713

Ion Ratio Lower Upper

146 100

111 43.9 36.3 54.5

148 64.6 52.0 78.0



#69

1,3,5-Trichlorobenzene

Concen: 13.457 ug/L

RT: 13.830 min Scan# 3900

Delta R.T. 0.621 min

Lab File: VU062808.D

Acq: 16 Jan 2025 10:31

Tgt Ion:180 Resp: 152940

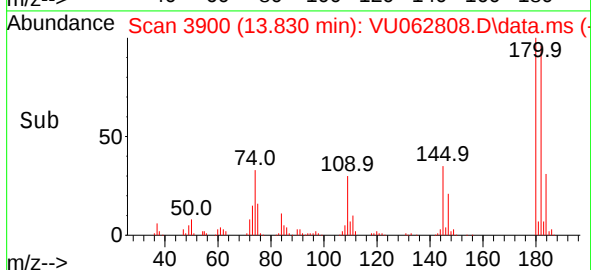
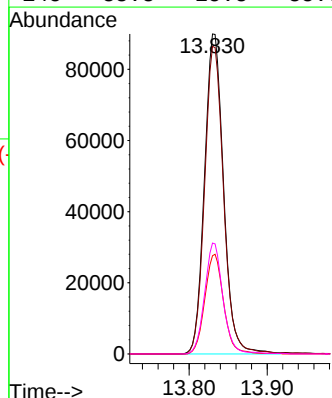
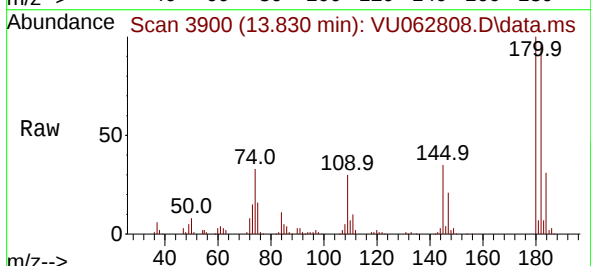
Ion Ratio Lower Upper

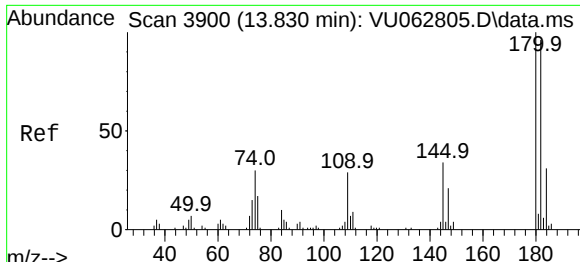
180 100

182 95.4 75.8 113.8

184 30.5 24.7 37.1

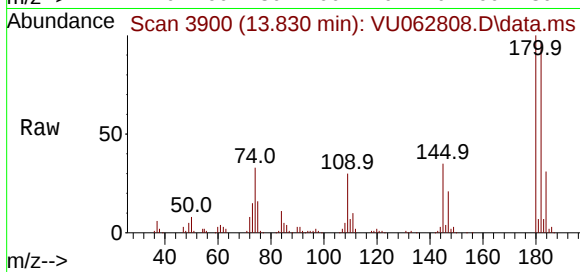
145 33.3 25.8 38.6





#70
 1,2,4-trichlorobenzene
 Concen: 16.709 ug/L
 RT: 13.830 min Scan# 3900
 Delta R.T. 0.000 min
 Lab File: VU062808.D
 Acq: 16 Jan 2025 10:31

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion:180 Resp: 152940
 Ion Ratio Lower Upper
 180 100
 182 95.4 77.1 115.7
 145 33.3 26.9 40.3

