

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051325\
 Data File : VX046177.D
 Acq On : 13 May 2025 19:28
 Operator : JC/MD
 Sample : Q2018-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW2

Quant Time: May 14 01:46:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 06 07:12:22 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	68362	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	136439	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	128432	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	58317	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	65123	51.097	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 102.200%	
35) Dibromofluoromethane	5.385	113	49215	50.091	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 100.180%	
50) Toluene-d8	8.647	98	170440	50.121	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 100.240%	
62) 4-Bromofluorobenzene	11.079	95	70733	54.226	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 108.460%	

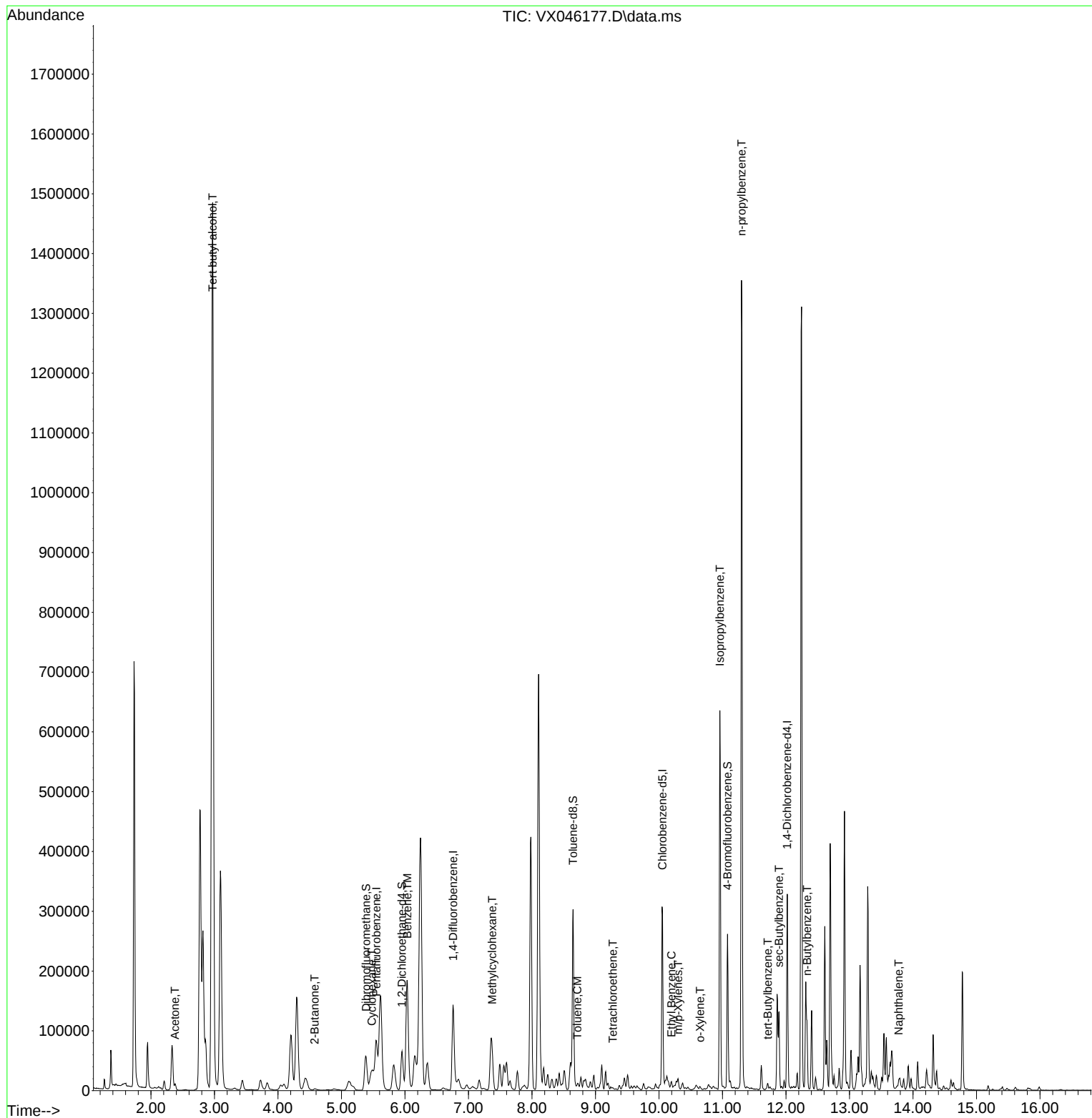
Target Compounds			Qvalue			
11) Tert butyl alcohol	2.971	59	1670293	9336.495	ug/l	100
16) Acetone	2.380	43	10756	21.049	ug/l	98
25) 2-Butanone	4.574	43	4782	6.446	ug/l	97
31) Cyclohexane	5.477	56	21979	14.471	ug/l #	89
39) Methylcyclohexane	7.373	83	23892	14.058	ug/l #	71
40) Benzene	6.038	78	214793	55.550	ug/l	100
52) Toluene	8.714	92	3417	1.441	ug/l	97
64) Tetrachloroethene	9.275	164	460	0.506	ug/l #	72
67) Ethyl Benzene	10.195	91	6026	1.216	ug/l	94
68) m/p-Xylenes	10.299	106	2958	1.632	ug/l	97
69) o-Xylene	10.647	106	674	0.381	ug/l	77
73) Isopropylbenzene	10.957	105	309541	68.179	ug/l	99
78) n-propylbenzene	11.299	91	821992	155.709	ug/l	99
83) tert-Butylbenzene	11.713	119	3266	0.855	ug/l	86
85) sec-Butylbenzene	11.890	105	66400	14.155	ug/l	93
89) n-Butylbenzene	12.329	91	58622	17.259	ug/l #	71
95) Naphthalene	13.774	128	11449	2.815	ug/l #	85

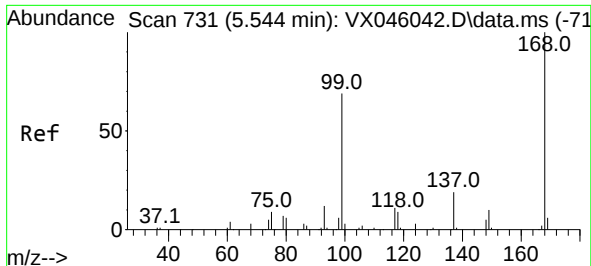
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 14 01:46:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
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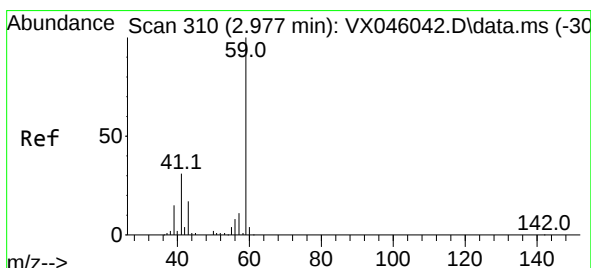
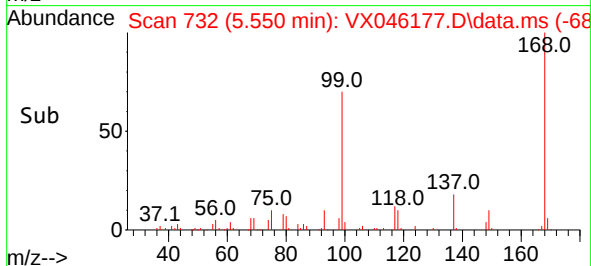
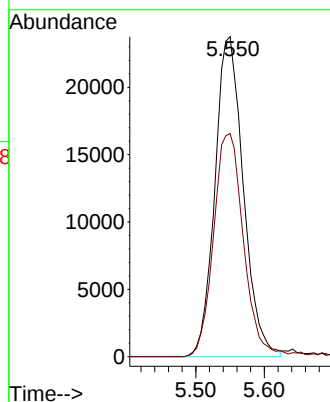
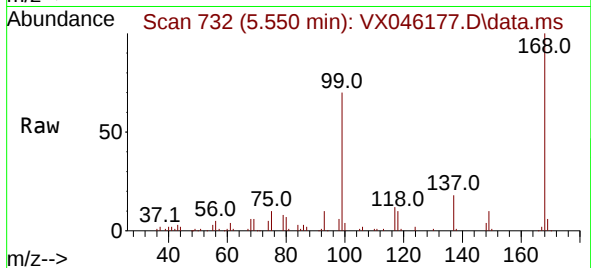




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX046177.D
Acq: 13 May 2025 19:28

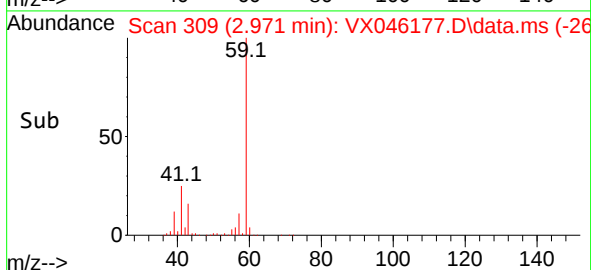
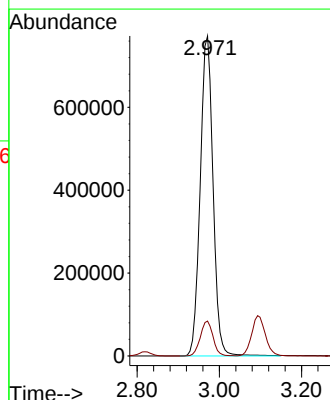
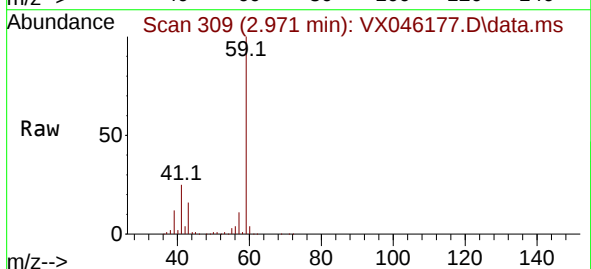
Instrument :
MSVOA_X
ClientSampleId :
MW2

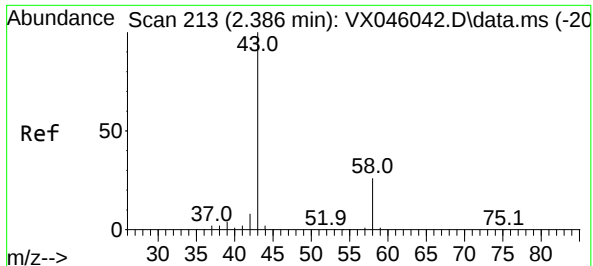
Tgt Ion:168 Resp: 68362
Ion Ratio Lower Upper
168 100
99 69.7 54.9 82.3



#11
Tert butyl alcohol
Concen: 9336.495 ug/l
RT: 2.971 min Scan# 309
Delta R.T. -0.006 min
Lab File: VX046177.D
Acq: 13 May 2025 19:28

Tgt Ion: 59 Resp: 1670293
Ion Ratio Lower Upper
59 100
57 10.8 8.6 12.8

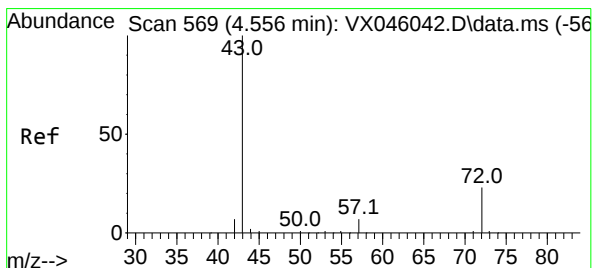
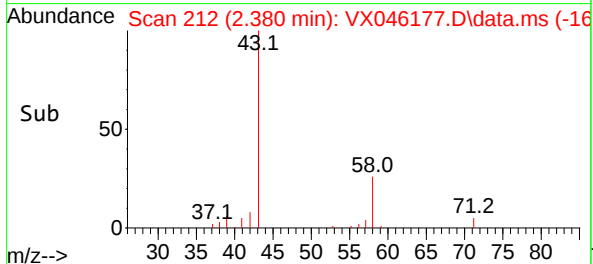
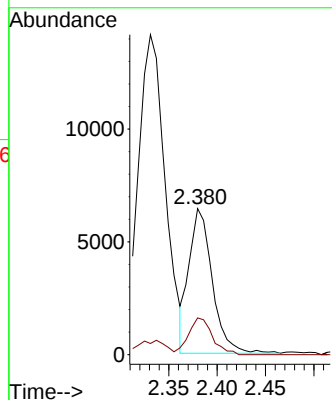
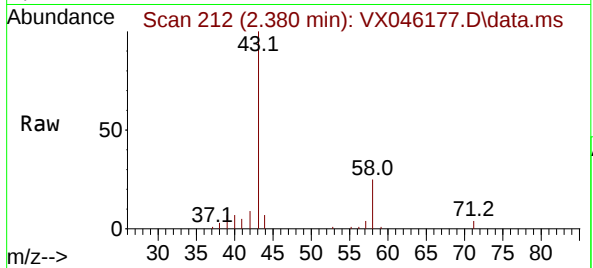




#16
Acetone
Concen: 21.049 ug/l
RT: 2.380 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX046177.D
Acq: 13 May 2025 19:28

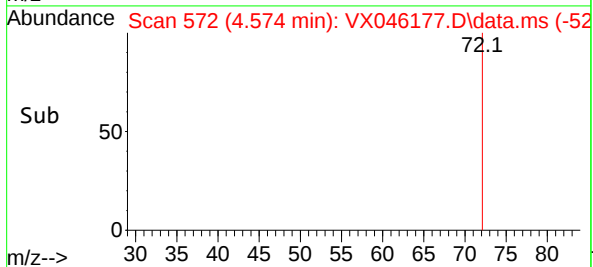
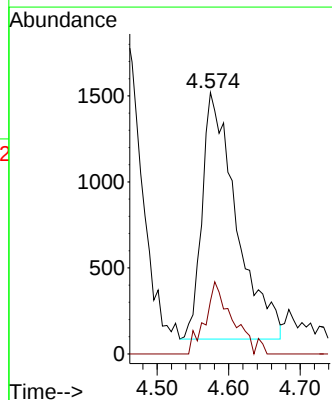
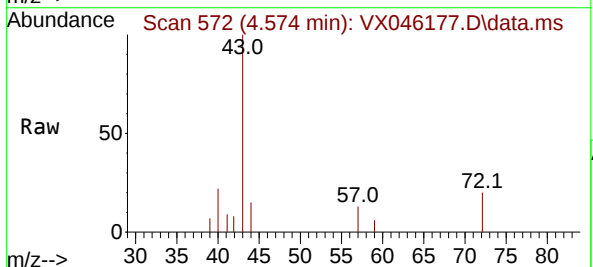
Instrument :
MSVOA_X
ClientSampleId :
MW2

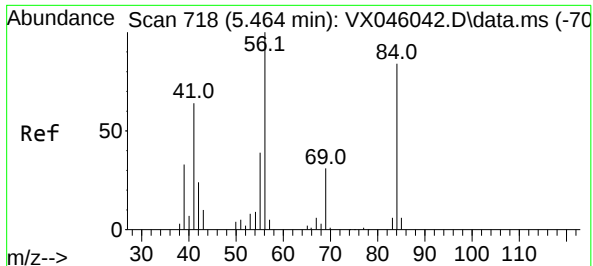
Tgt Ion: 43 Resp: 10756
Ion Ratio Lower Upper
43 100
58 25.4 21.2 31.8



#25
2-Butanone
Concen: 6.446 ug/l
RT: 4.574 min Scan# 572
Delta R.T. 0.018 min
Lab File: VX046177.D
Acq: 13 May 2025 19:28

Tgt Ion: 43 Resp: 4782
Ion Ratio Lower Upper
43 100
72 21.5 18.4 27.6

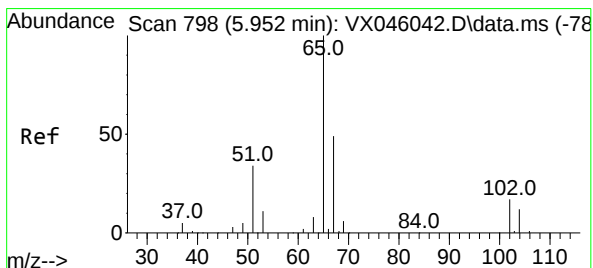
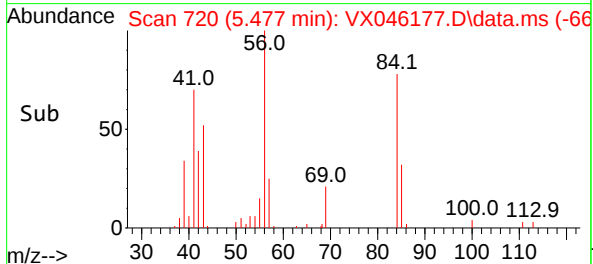
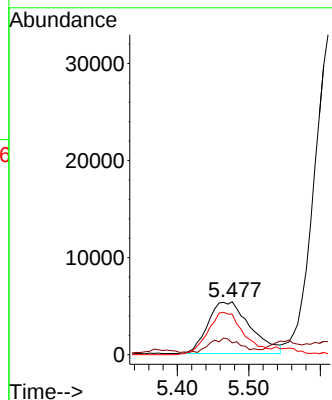
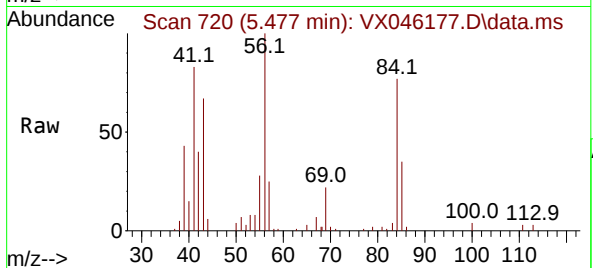




#31
Cyclohexane
Concen: 14.471 ug/l
RT: 5.477 min Scan# 718
Delta R.T. 0.012 min
Lab File: VX046177.D
Acq: 13 May 2025 19:28

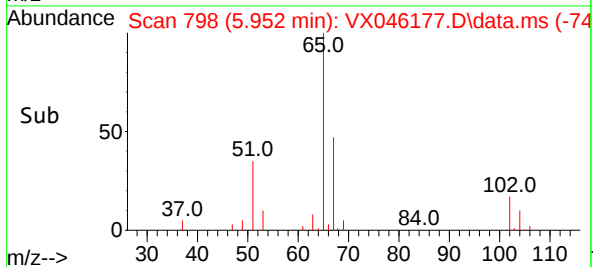
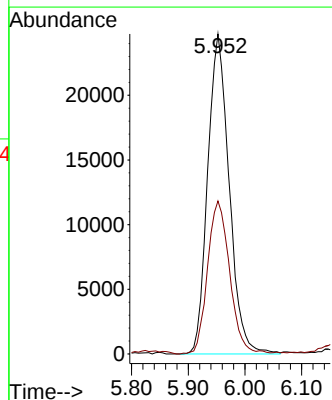
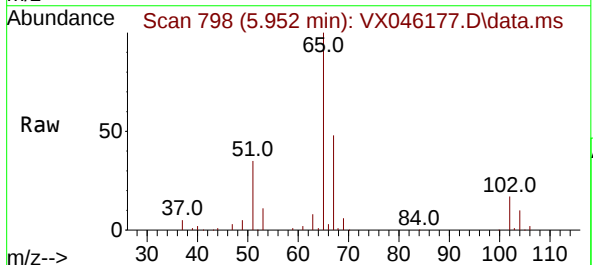
Instrument :
MSVOA_X
ClientSampleId :
MW2

Tgt Ion: 56 Resp: 21979
Ion Ratio Lower Upper
56 100
69 18.7 24.4 36.6#
84 77.1 66.9 100.3



#33
1,2-Dichloroethane-d4
Concen: 51.097 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX046177.D
Acq: 13 May 2025 19:28

Tgt Ion: 65 Resp: 65123
Ion Ratio Lower Upper
65 100
67 49.2 0.0 99.0

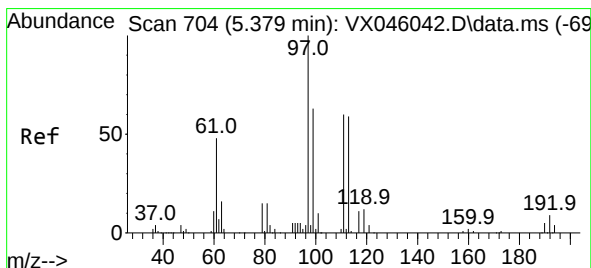
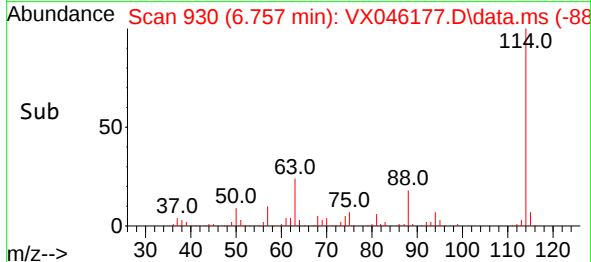
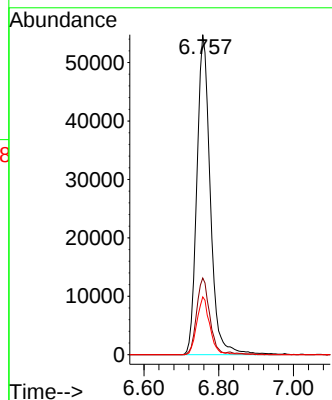
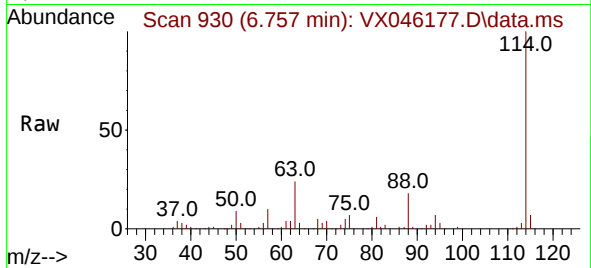




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 91
Delta R.T. 0.000 min
Lab File: VX046177.D
Acq: 13 May 2025 19:28

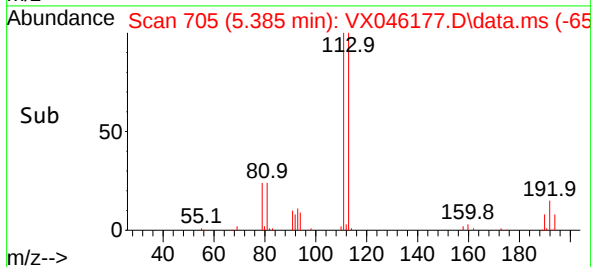
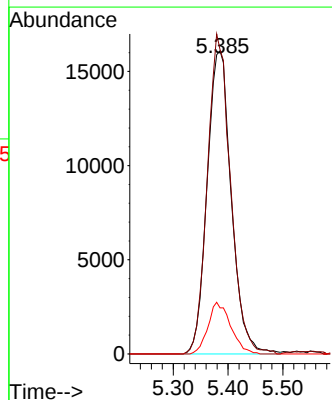
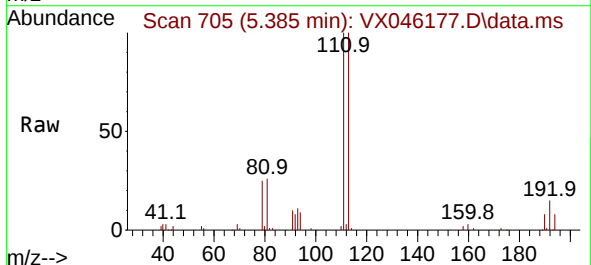
Instrument :
MSVOA_X
ClientSampleId :
MW2

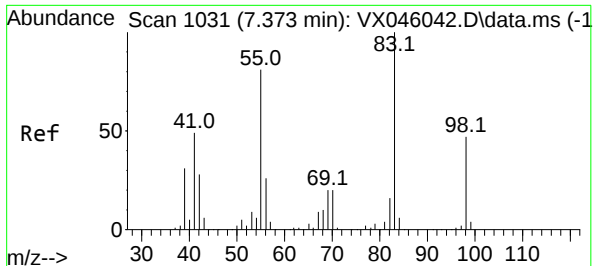
Tgt Ion:114 Resp: 136439
Ion Ratio Lower Upper
114 100
63 24.0 0.0 49.2
88 18.0 0.0 33.6



#35
Dibromofluoromethane
Concen: 50.091 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.006 min
Lab File: VX046177.D
Acq: 13 May 2025 19:28

Tgt Ion:113 Resp: 49215
Ion Ratio Lower Upper
113 100
111 101.4 83.1 124.7
192 16.0 13.3 19.9





#39

Methylcyclohexane

Concen: 14.058 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VX046177.D

Acq: 13 May 2025 19:28

Instrument :

MSVOA_X

ClientSampleId :

MW2

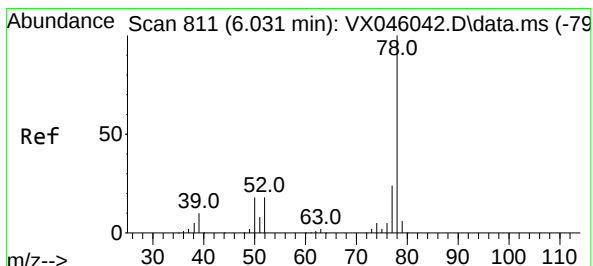
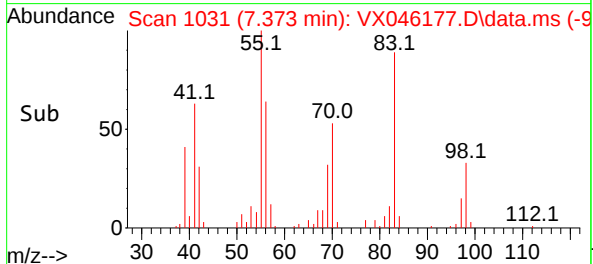
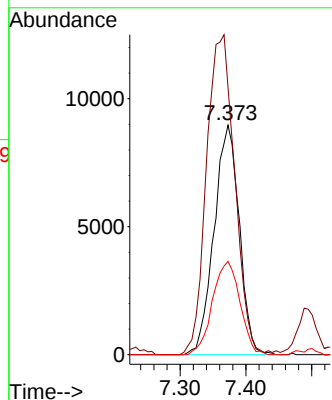
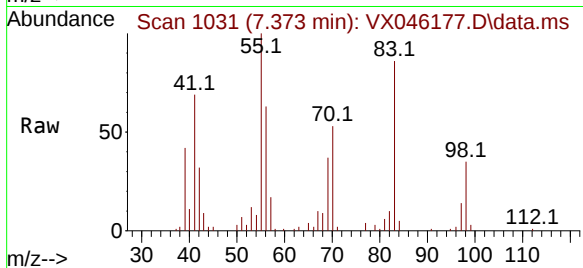
Tgt Ion: 83 Resp: 23892

Ion Ratio Lower Upper

83 100

55 116.3 64.7 97.1#

98 40.7 37.4 56.2



#40

Benzene

Concen: 55.550 ug/l

RT: 6.038 min Scan# 812

Delta R.T. 0.006 min

Lab File: VX046177.D

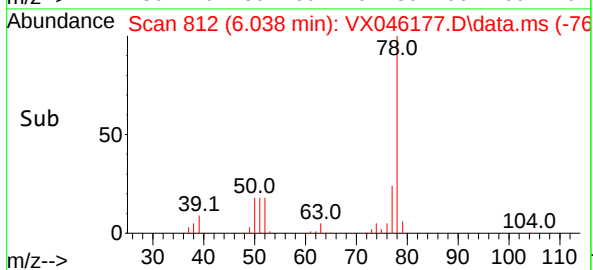
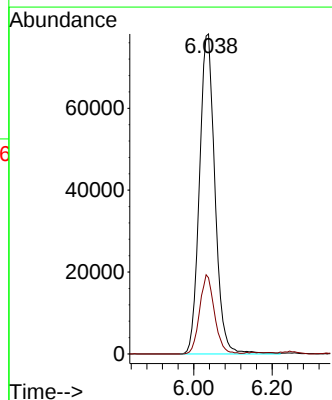
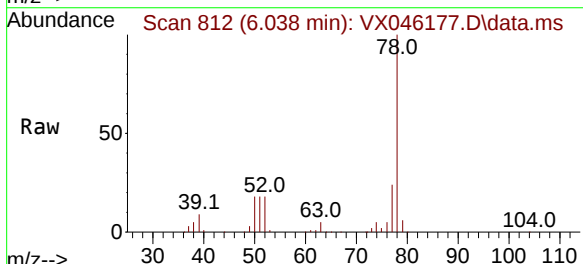
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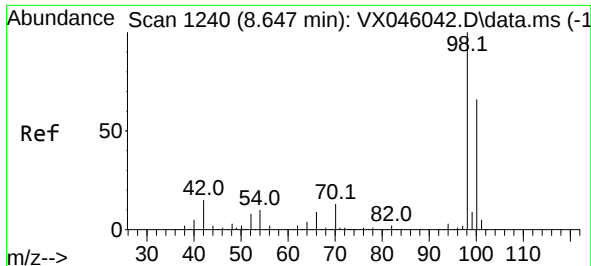
Tgt Ion: 78 Resp: 214793

Ion Ratio Lower Upper

78 100

77 23.8 19.0 28.4

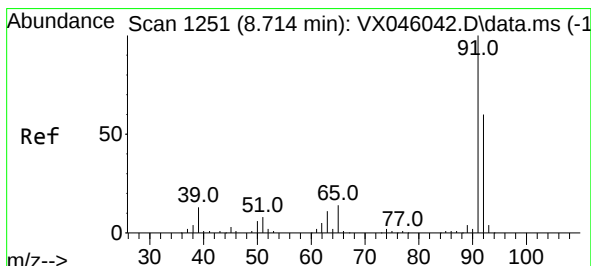
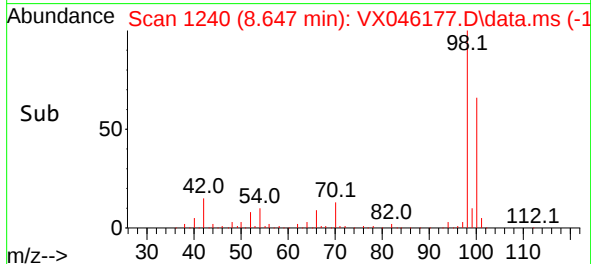
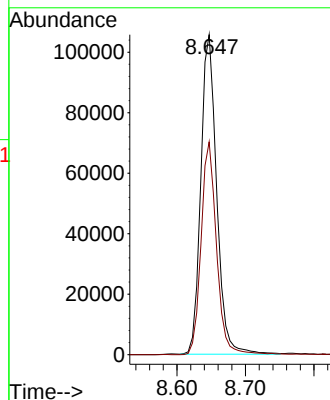
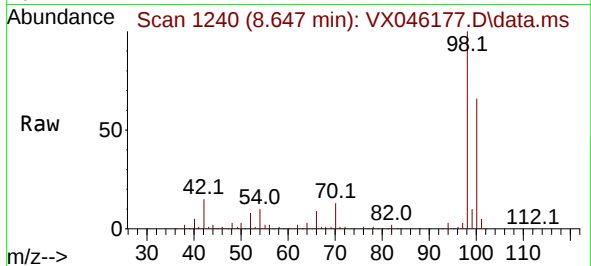




#50
Toluene-d8
Concen: 50.121 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX046177.D
Acq: 13 May 2025 19:28

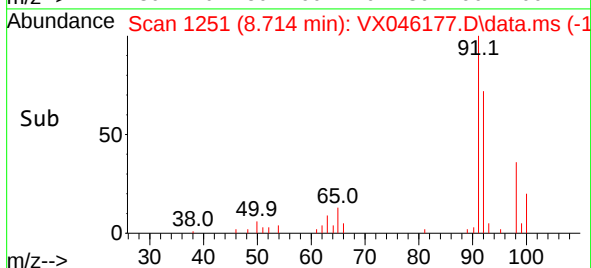
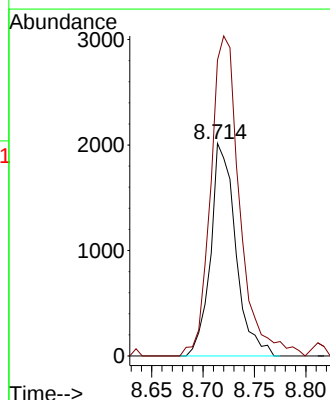
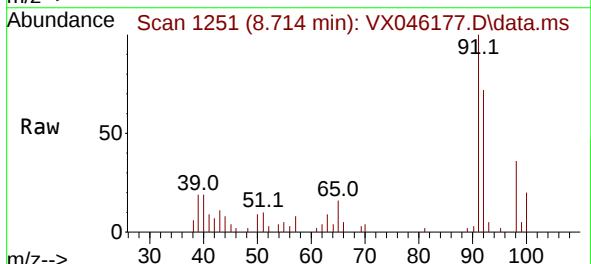
Instrument :
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Tgt Ion: 98 Resp: 170440
Ion Ratio Lower Upper
98 100
100 65.0 53.5 80.3



#52
Toluene
Concen: 1.441 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX046177.D
Acq: 13 May 2025 19:28

Tgt Ion: 92 Resp: 3417
Ion Ratio Lower Upper
92 100
91 174.8 136.6 205.0

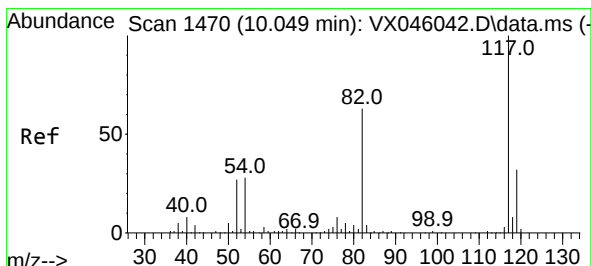
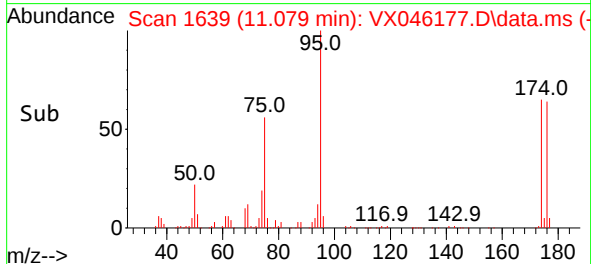
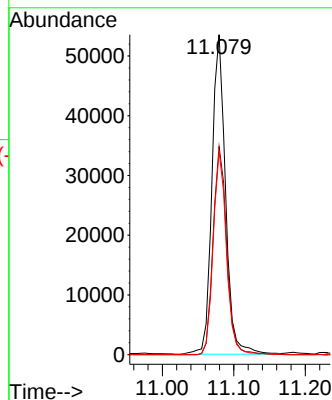
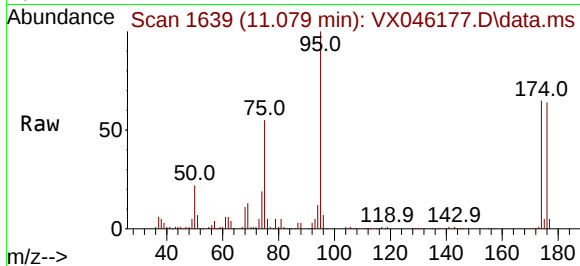




#62
4-Bromofluorobenzene
Concen: 54.226 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046177.D
Acq: 13 May 2025 19:28

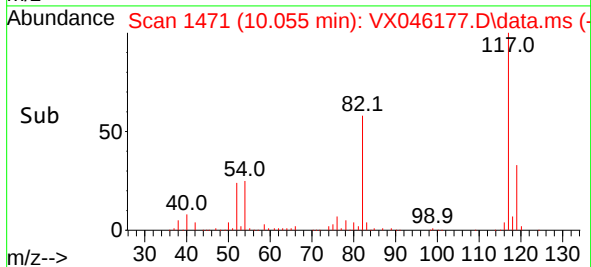
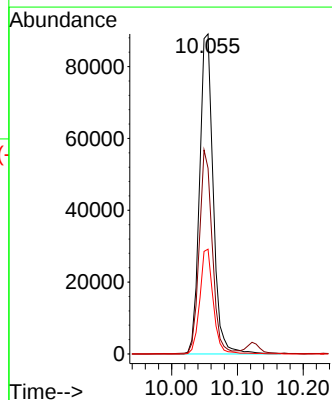
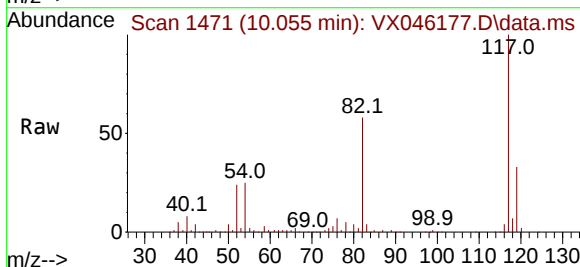
Instrument :
MSVOA_X
ClientSampleId :
MW2

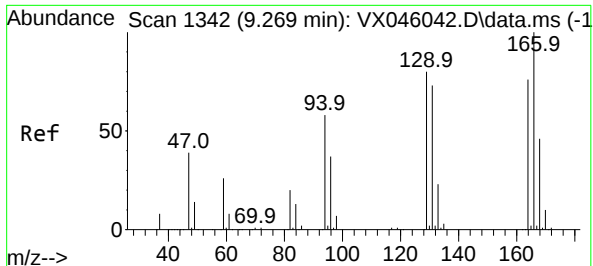
Tgt Ion: 95 Resp: 70733
Ion Ratio Lower Upper
95 100
174 65.3 0.0 135.8
176 61.8 0.0 131.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.006 min
Lab File: VX046177.D
Acq: 13 May 2025 19:28

Tgt Ion: 117 Resp: 128432
Ion Ratio Lower Upper
117 100
82 57.8 50.6 76.0
119 32.7 25.8 38.6

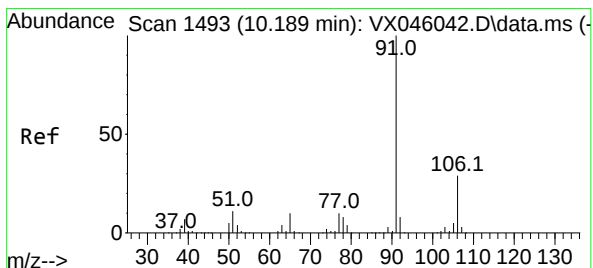
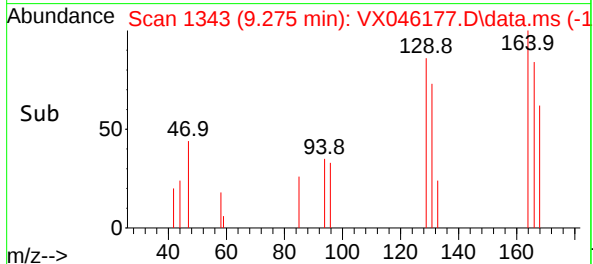
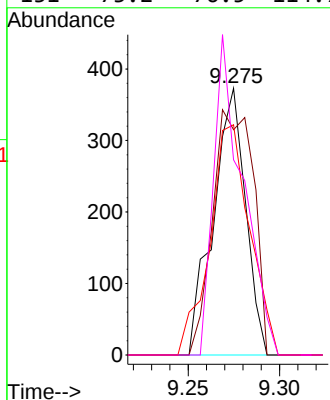
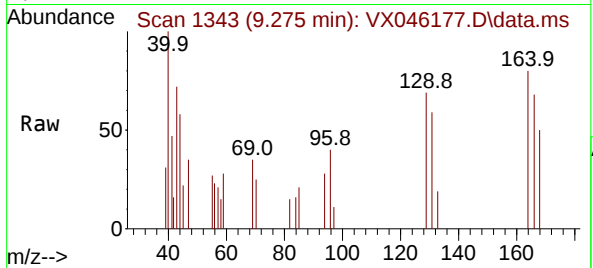




#64
Tetrachloroethene
Concen: 0.506 ug/l
RT: 9.275 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX046177.D
Acq: 13 May 2025 19:28

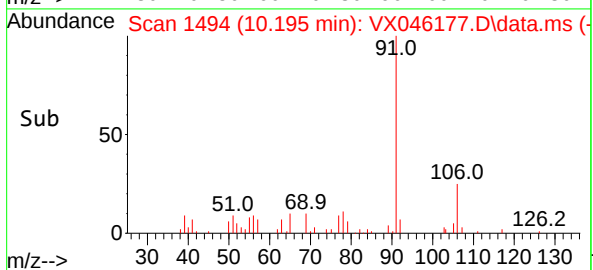
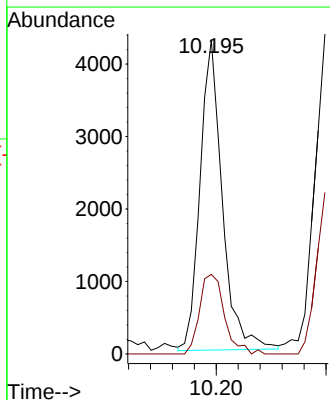
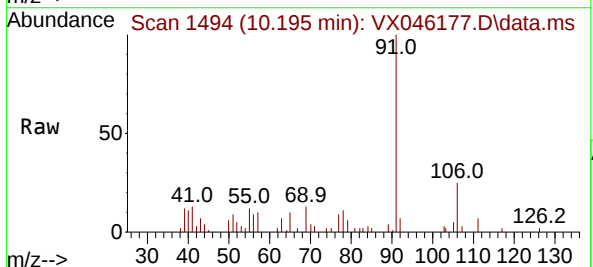
Instrument :
MSVOA_X
ClientSampleId :
MW2

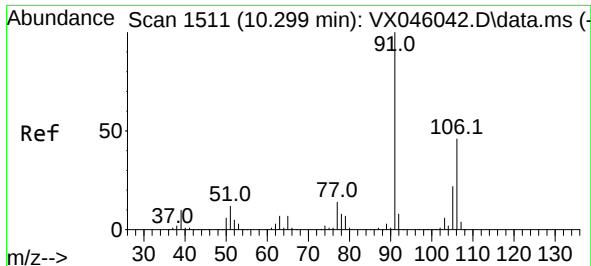
Tgt Ion:164 Resp: 460
Ion Ratio Lower Upper
164 100
166 84.5 105.0 157.6#
129 86.3 83.5 125.3
131 73.2 76.5 114.7#



#67
Ethyl Benzene
Concen: 1.216 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.006 min
Lab File: VX046177.D
Acq: 13 May 2025 19:28

Tgt Ion: 91 Resp: 6026
Ion Ratio Lower Upper
91 100
106 25.8 23.4 35.2

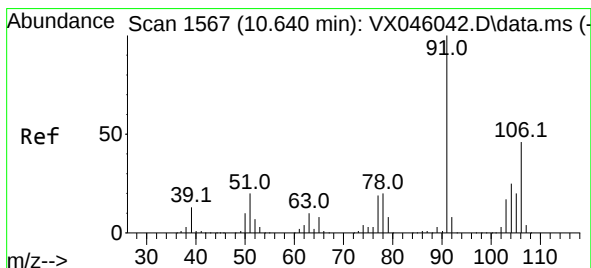
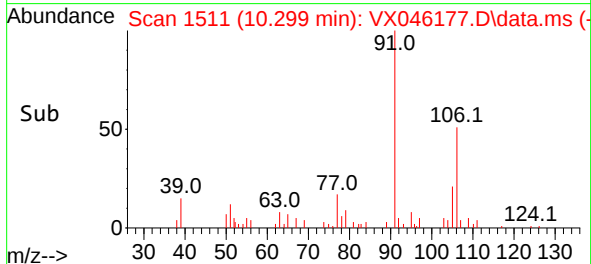
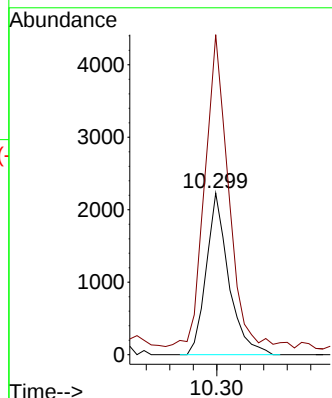
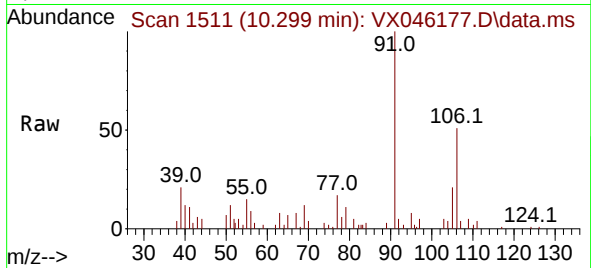




#68
m/p-Xylenes
Concen: 1.632 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX046177.D
Acq: 13 May 2025 19:28

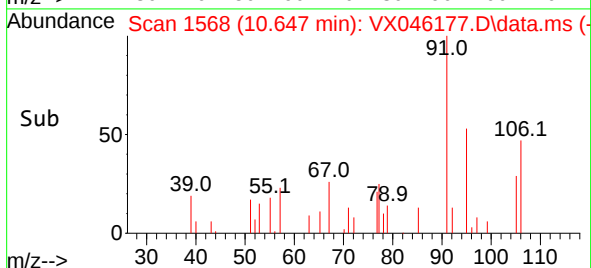
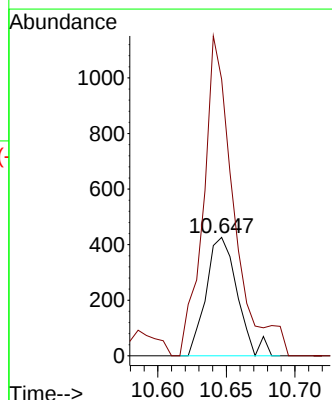
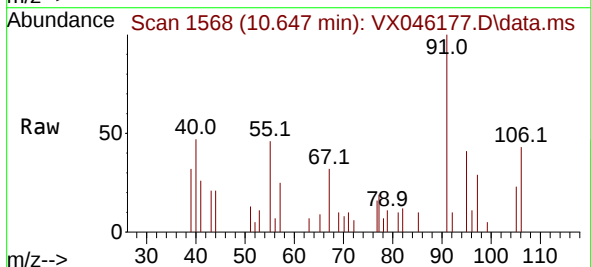
Instrument :
MSVOA_X
ClientSampleId :
MW2

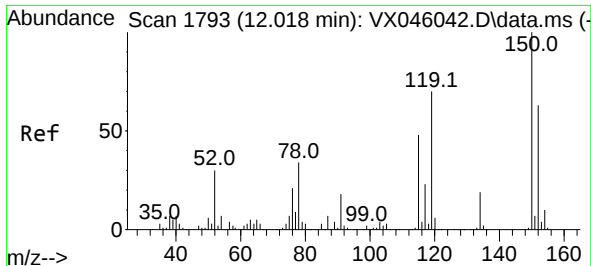
Tgt Ion:106 Resp: 2958
Ion Ratio Lower Upper
106 100
91 209.0 171.2 256.8



#69
o-Xylene
Concen: 0.381 ug/l
RT: 10.647 min Scan# 1568
Delta R.T. 0.006 min
Lab File: VX046177.D
Acq: 13 May 2025 19:28

Tgt Ion:106 Resp: 674
Ion Ratio Lower Upper
106 100
91 263.2 112.7 338.1

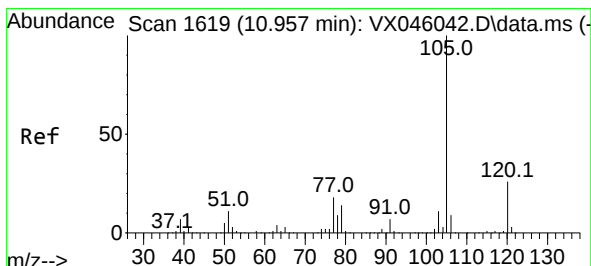
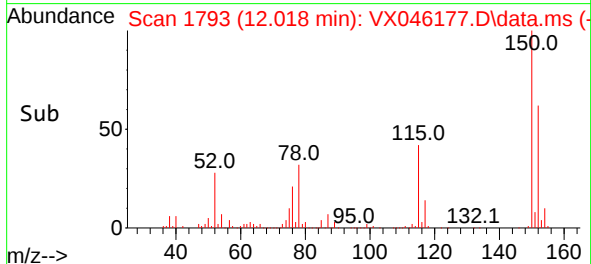
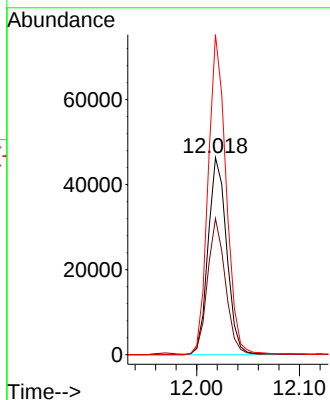
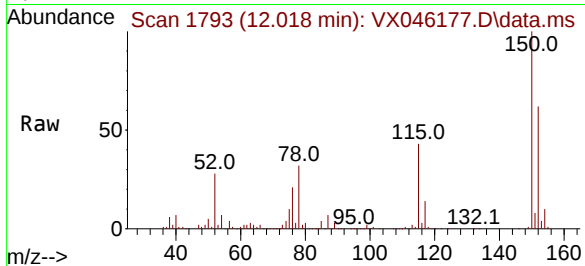




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX046177.D
Acq: 13 May 2025 19:28

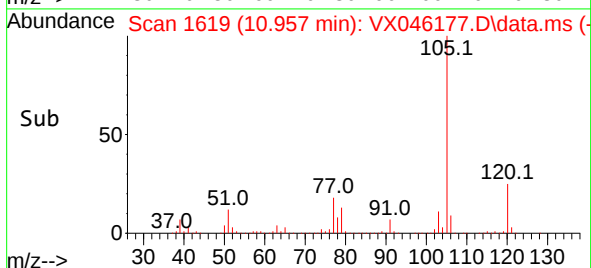
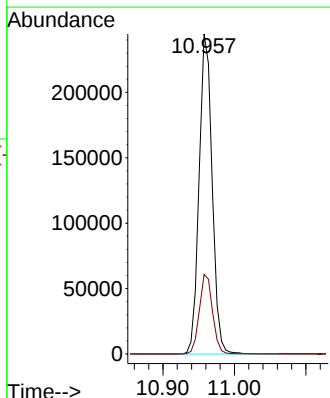
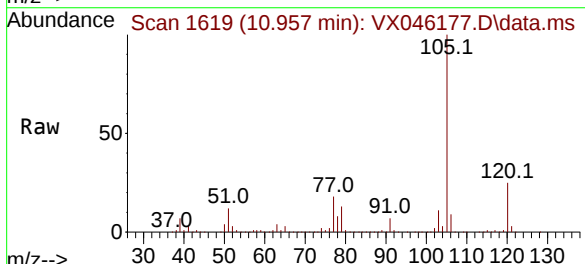
Instrument :
MSVOA_X
ClientSampleId :
MW2

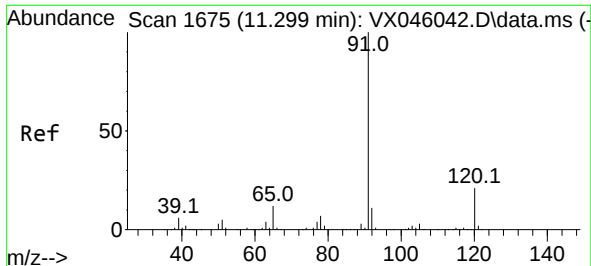
Tgt Ion:152 Resp: 58317
Ion Ratio Lower Upper
152 100
115 65.5 46.9 140.7
150 157.1 0.0 351.0



#73
Isopropylbenzene
Concen: 68.179 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VX046177.D
Acq: 13 May 2025 19:28

Tgt Ion:105 Resp: 309541
Ion Ratio Lower Upper
105 100
120 25.1 12.8 38.4

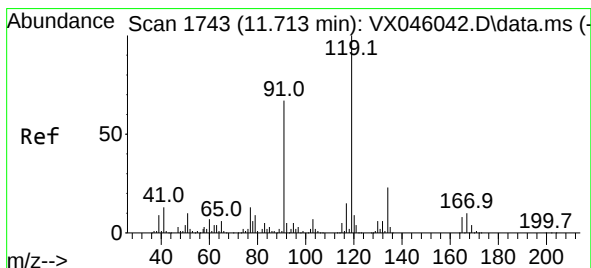
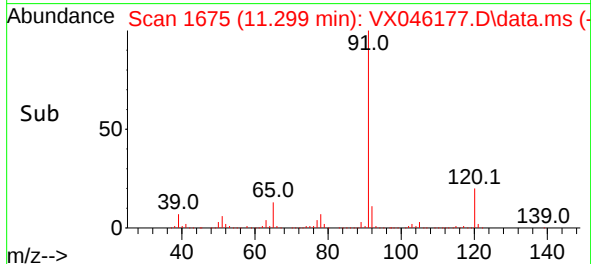
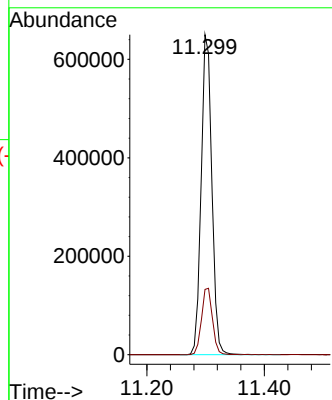
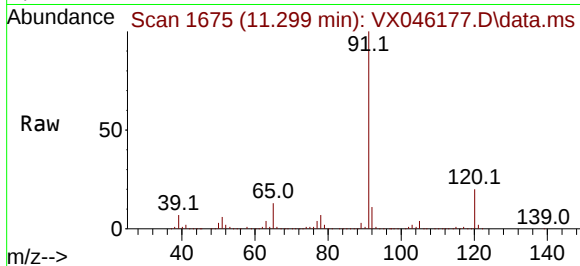




#78
n-propylbenzene
Concen: 155.709 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX046177.D
Acq: 13 May 2025 19:28

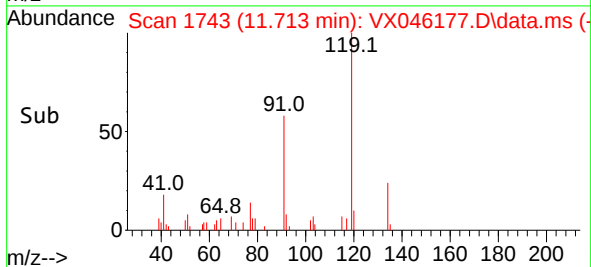
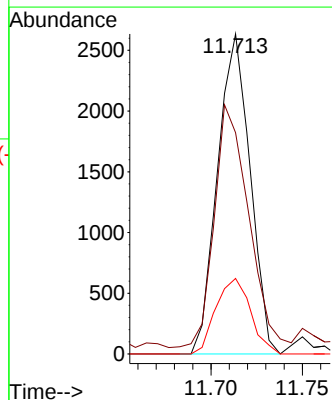
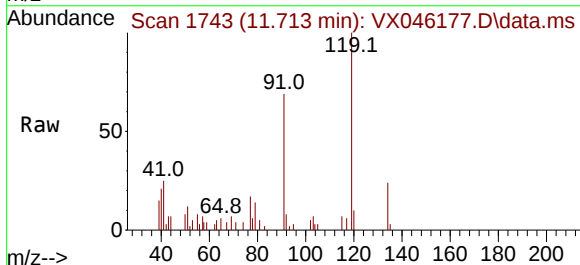
Instrument :
MSVOA_X
ClientSampleId :
MW2

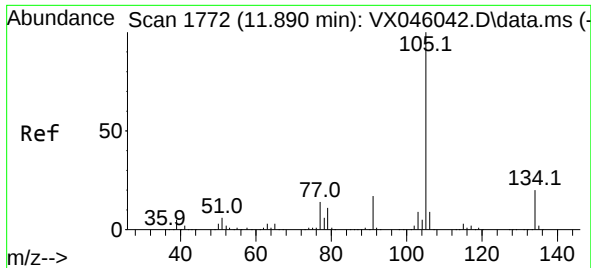
Tgt Ion: 91 Resp: 821992
Ion Ratio Lower Upper
91 100
120 21.2 10.8 32.4



#83
tert-Butylbenzene
Concen: 0.855 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX046177.D
Acq: 13 May 2025 19:28

Tgt Ion: 119 Resp: 3266
Ion Ratio Lower Upper
119 100
91 79.6 32.9 98.7
134 25.1 11.4 34.1

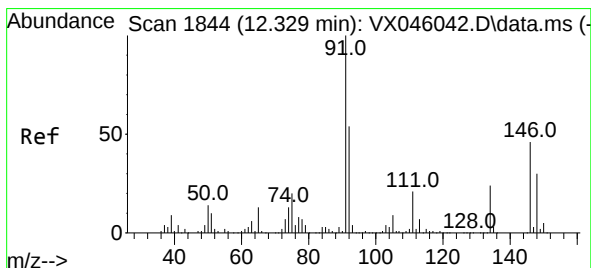
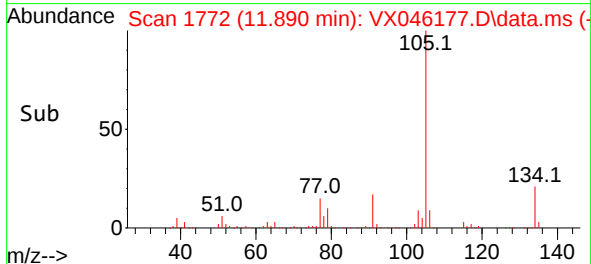
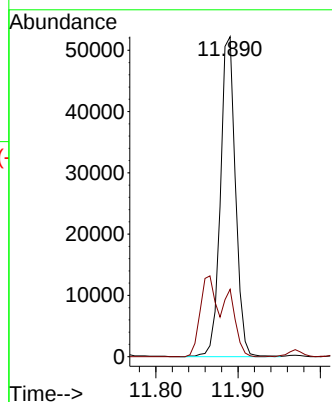
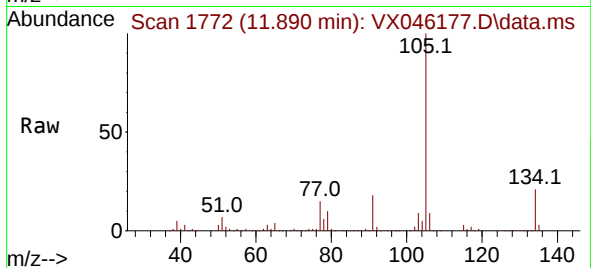




#85
 sec-Butylbenzene
 Concen: 14.155 ug/l
 RT: 11.890 min Scan# 1772
 Delta R.T. 0.000 min
 Lab File: VX046177.D
 Acq: 13 May 2025 19:28

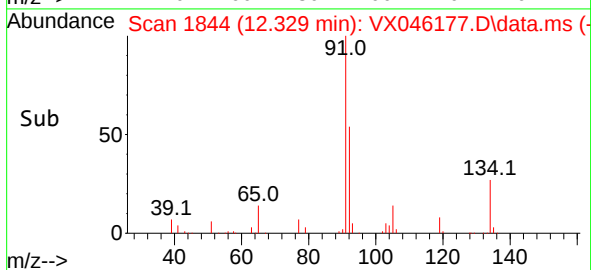
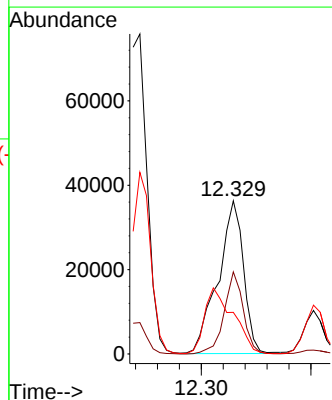
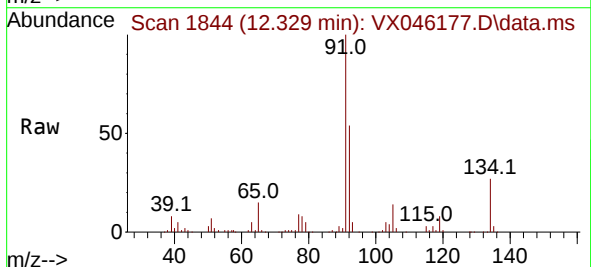
Instrument :
 MSVOA_X
 ClientSampleId :
 MW2

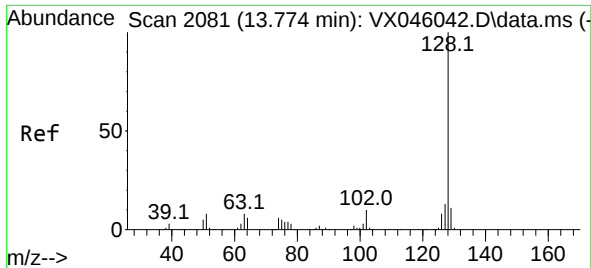
Tgt Ion:105 Resp: 66400
 Ion Ratio Lower Upper
 105 100
 134 16.2 9.7 29.1



#89
 n-Butylbenzene
 Concen: 17.259 ug/l
 RT: 12.329 min Scan# 1844
 Delta R.T. 0.000 min
 Lab File: VX046177.D
 Acq: 13 May 2025 19:28

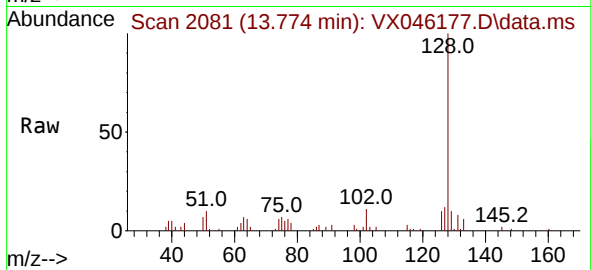
Tgt Ion: 91 Resp: 58622
 Ion Ratio Lower Upper
 91 100
 92 40.4 26.9 80.7
 134 48.7 11.8 35.3#





#95
Naphthalene
Concen: 2.815 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX046177.D
Acq: 13 May 2025 19:28

Instrument :
MSVOA_X
ClientSampleId :
MW2



Tgt Ion	Ratio	Lower	Upper
128	100		
127	14.7	10.4	15.6
129	21.7	8.6	13.0

