

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051225\
 Data File : VX046146.D
 Acq On : 12 May 2025 18:16
 Operator : JC/MD
 Sample : Q2004-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 2811

Quant Time: May 13 03:22:18 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)

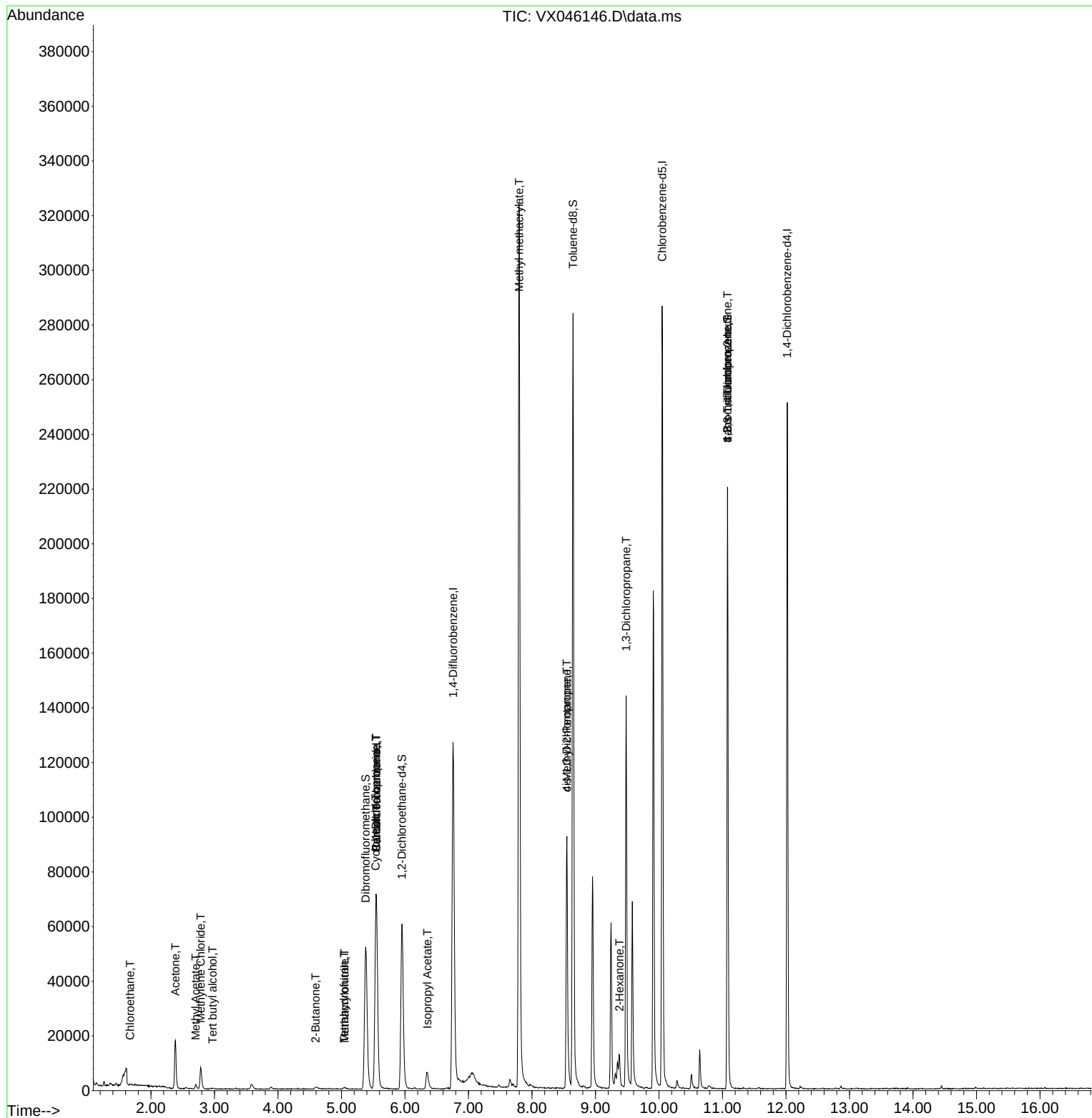
Internal Standards						
1) Pentafluorobenzene	5.550	168	61738	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	122025	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	117034	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	47598	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	62733	54.503	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 109.000%			
35) Dibromofluoromethane	5.379	113	45483	51.761	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.520%			
50) Toluene-d8	8.647	98	158363	52.070	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.140%			
62) 4-Bromofluorobenzene	11.079	95	57837	49.577	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 99.160%			
Target Compounds					Qvalue	
6) Chloroethane	1.673	64	116	0.255	ug/l #	44
11) Tert butyl alcohol	2.971	59	109	0.675	ug/l #	72
16) Acetone	2.386	43	20311	44.011	ug/l	98
18) Methyl Acetate	2.703	43	2010	1.877	ug/l #	90
20) Methylene Chloride	2.782	84	3689	4.171	ug/l	87
25) 2-Butanone	4.593	43	1800	2.687	ug/l	96
29) Tetrahydrofuran	5.044	42	596	1.420	ug/l #	54
31) Cyclohexane	5.538	56	1772	1.292	ug/l #	51
36) 1,1-Dichloropropene	5.544	75	6065	5.137	ug/l #	50
38) Carbon Tetrachloride	5.550	117	7329	5.525	ug/l #	17
41) Methacrylonitrile	5.050	41	296	0.388	ug/l #	43
43) Isopropyl Acetate	6.355	43	9932	4.463	ug/l	98
48) Methyl methacrylate	7.799	41	33354	29.349	ug/l #	49
51) 4-Methyl-2-Pentanone	8.549	43	35527	24.052	ug/l #	52
54) cis-1,3-Dichloropropene	8.549	75	13649	10.401	ug/l #	64
57) 1,3-Dichloropropane	9.482	76	1164	0.775	ug/l #	42
59) 2-Hexanone	9.378	43	11464	10.490	ug/l #	28
76) 1,2,3-Trichloropropane	11.079	75	33220	28.995	ug/l #	36
81) trans-1,4-Dichloro-2-b...	11.079	75	33220	94.399	ug/l #	1

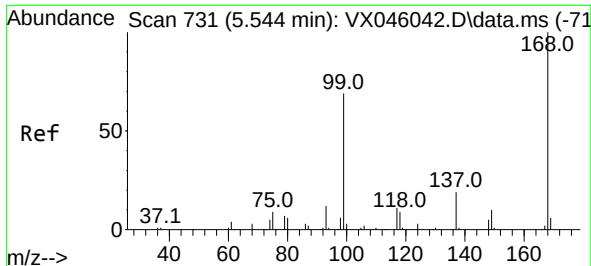
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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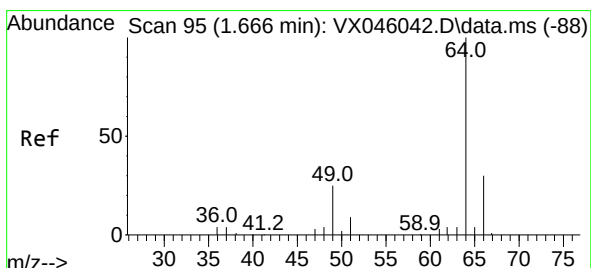
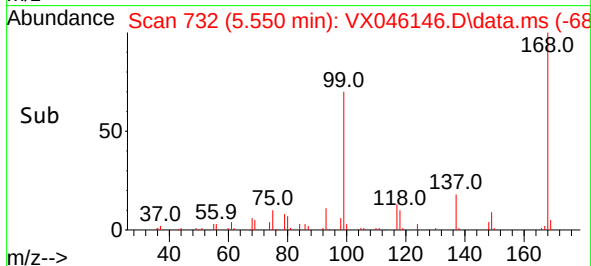
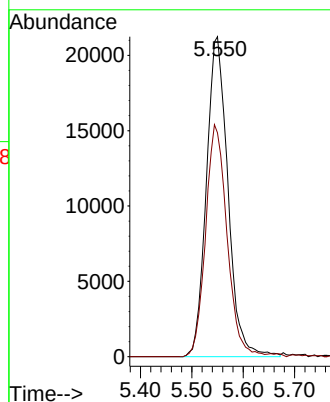
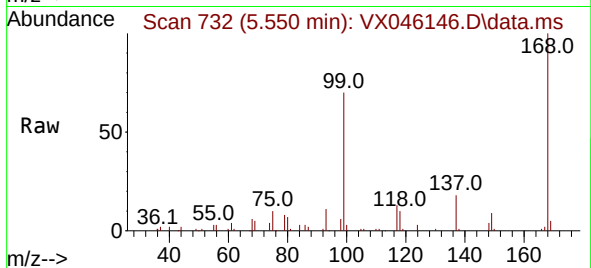




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX046146.D
Acq: 12 May 2025 18:16

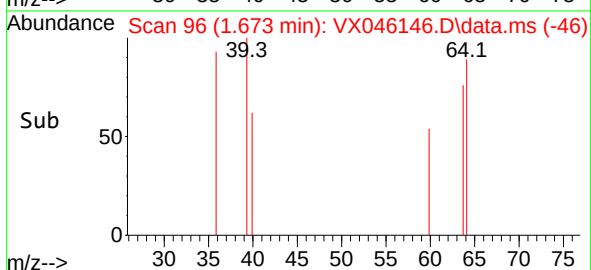
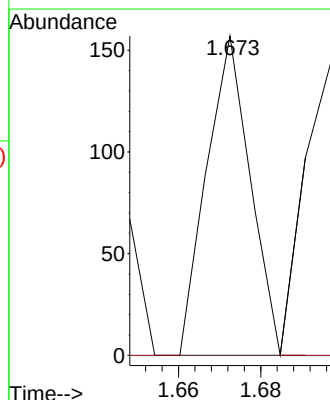
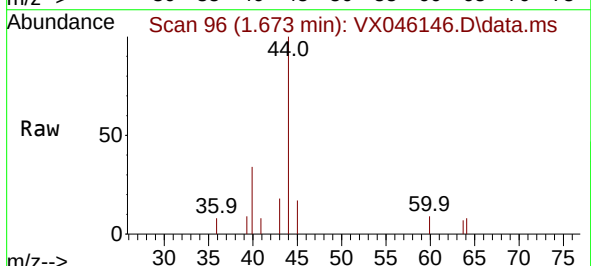
Instrument :
MSVOA_X
ClientSampleId :
2811

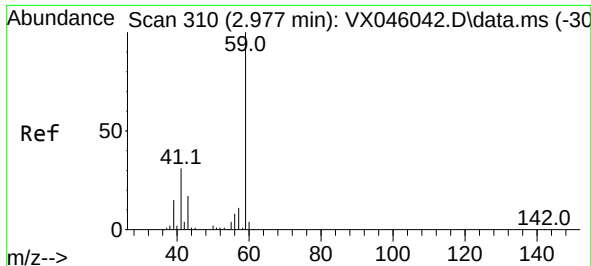
Tgt Ion:168 Resp: 61738
Ion Ratio Lower Upper
168 100
99 70.0 54.9 82.3



#6
Chloroethane
Concen: 0.255 ug/l
RT: 1.673 min Scan# 96
Delta R.T. 0.006 min
Lab File: VX046146.D
Acq: 12 May 2025 18:16

Tgt Ion: 64 Resp: 116
Ion Ratio Lower Upper
64 100
66 0.0 24.3 36.5#

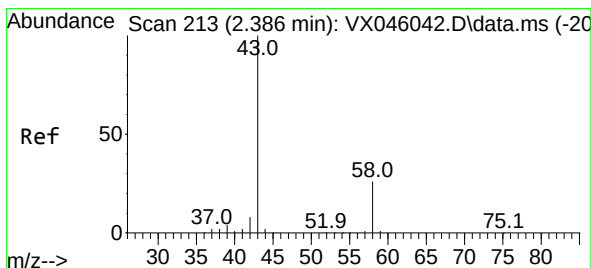
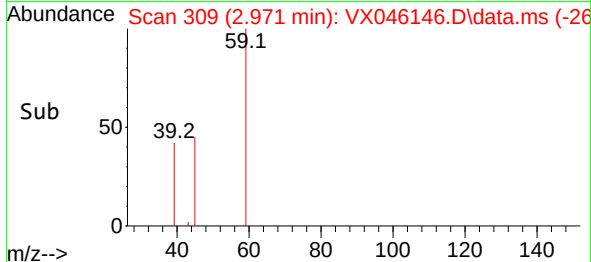
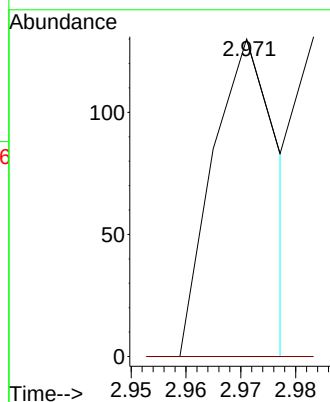
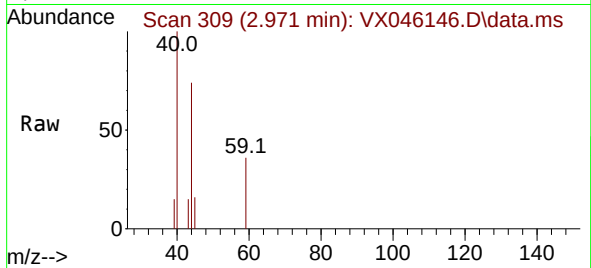




#11
Tert butyl alcohol
Concen: 0.675 ug/l
RT: 2.971 min Scan# 309
Delta R.T. -0.006 min
Lab File: VX046146.D
Acq: 12 May 2025 18:16

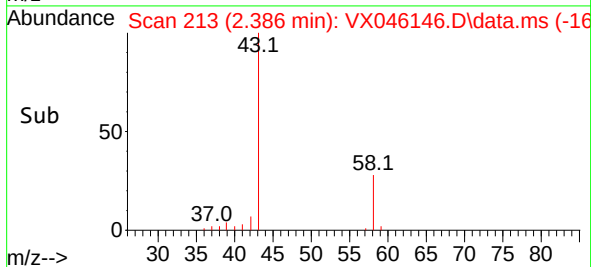
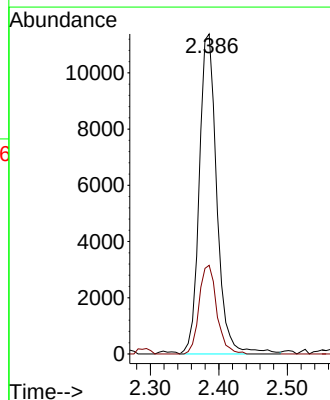
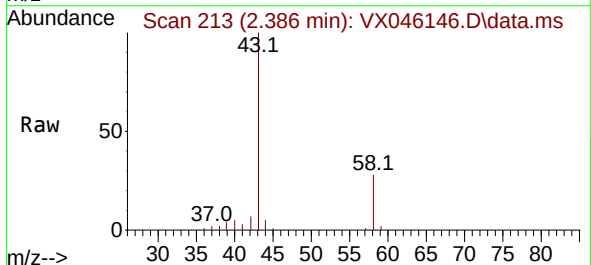
Instrument :
MSVOA_X
ClientSampleId :
2811

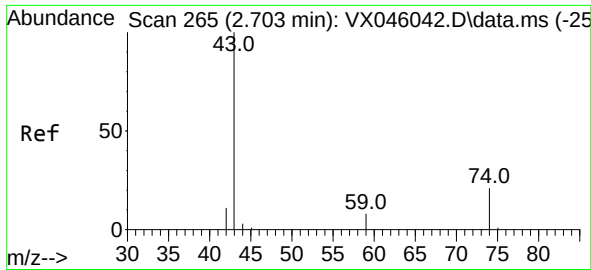
Tgt Ion: 59 Resp: 109
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#16
Acetone
Concen: 44.011 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX046146.D
Acq: 12 May 2025 18:16

Tgt Ion: 43 Resp: 20311
Ion Ratio Lower Upper
43 100
58 27.7 21.2 31.8

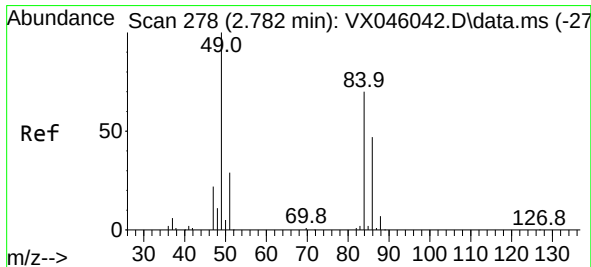
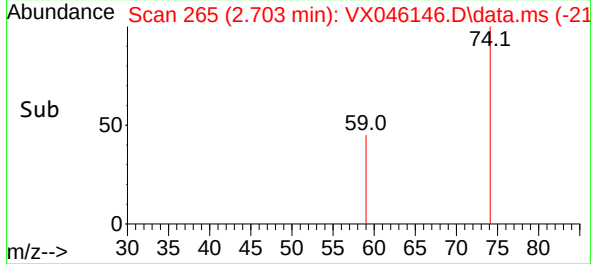
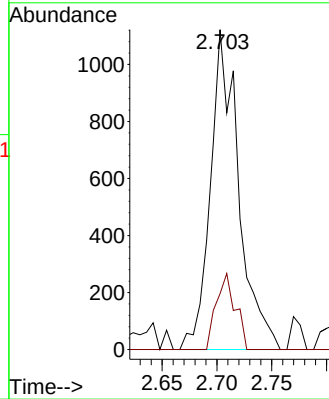
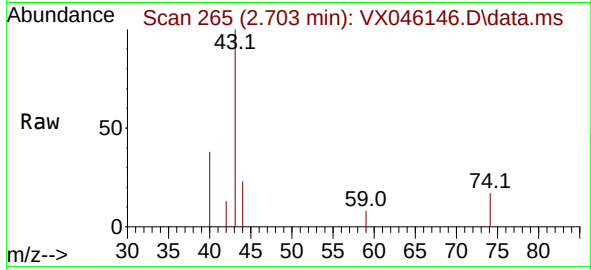




#18
Methyl Acetate
Concen: 1.877 ug/l
RT: 2.703 min Scan# 2010
Delta R.T. 0.000 min
Lab File: VX046146.D
Acq: 12 May 2025 18:16

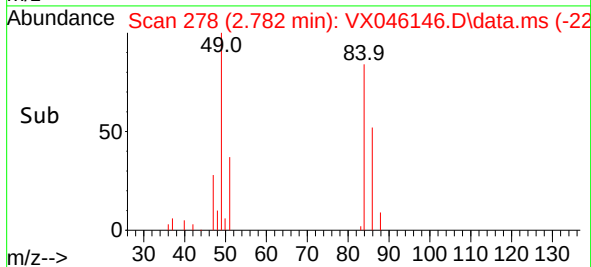
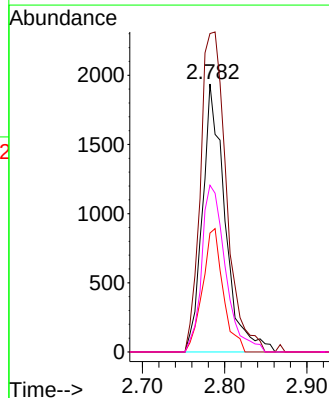
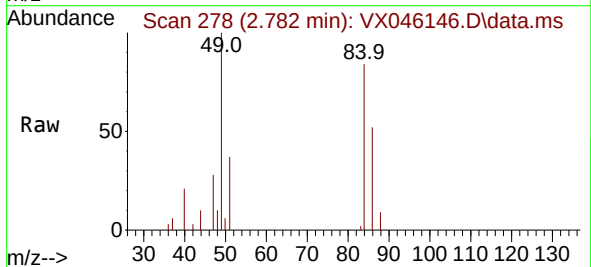
Instrument :
MSVOA_X
ClientSampleId :
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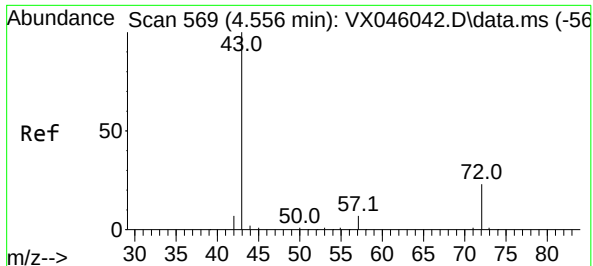
Tgt Ion: 43 Resp: 2010
Ion Ratio Lower Upper
43 100
74 16.0 16.7 25.1#



#20
Methylene Chloride
Concen: 4.171 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX046146.D
Acq: 12 May 2025 18:16

Tgt Ion: 84 Resp: 3689
Ion Ratio Lower Upper
84 100
49 118.8 113.9 170.9
51 44.3 33.5 50.3
86 62.2 53.8 80.8

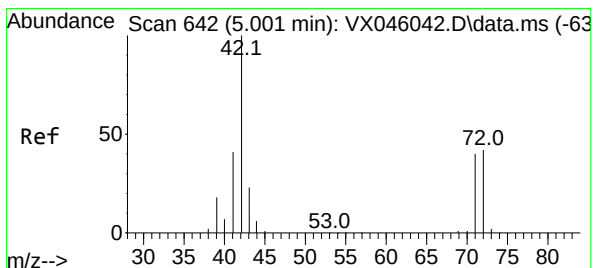
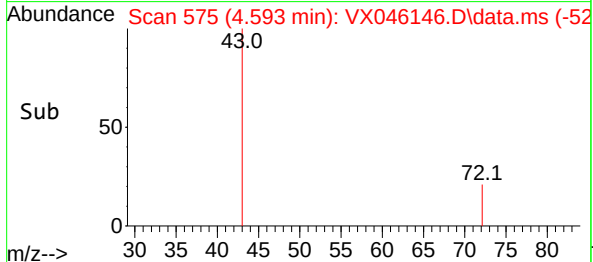
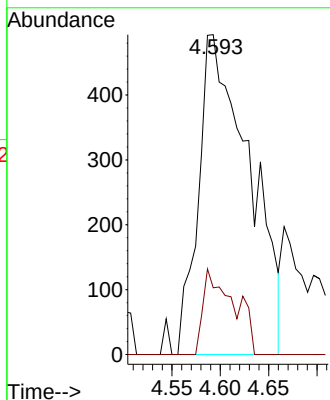
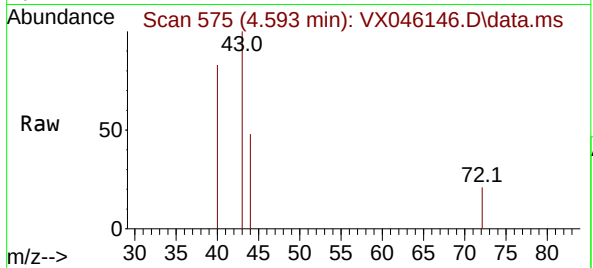




#25
2-Butanone
Concen: 2.687 ug/l
RT: 4.593 min Scan# 51
Delta R.T. 0.037 min
Lab File: VX046146.D
Acq: 12 May 2025 18:16

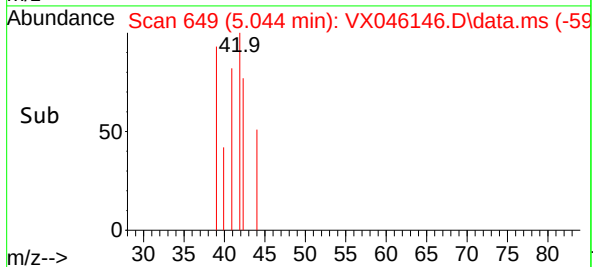
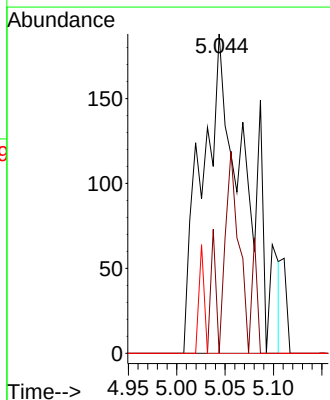
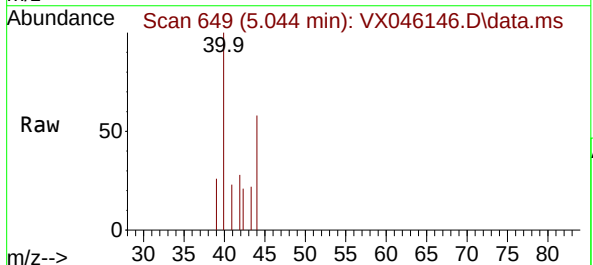
Instrument :
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ClientSampleId :
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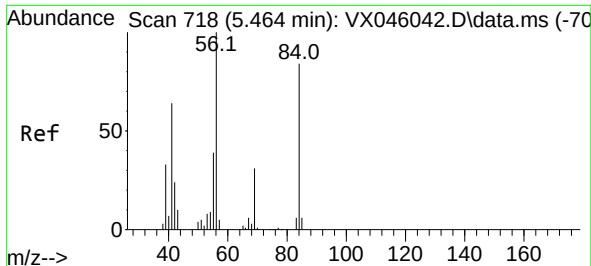
Tgt Ion: 43 Resp: 1800
Ion Ratio Lower Upper
43 100
72 20.9 18.4 27.6



#29
Tetrahydrofuran
Concen: 1.420 ug/l
RT: 5.044 min Scan# 649
Delta R.T. 0.043 min
Lab File: VX046146.D
Acq: 12 May 2025 18:16

Tgt Ion: 42 Resp: 596
Ion Ratio Lower Upper
42 100
72 23.5 33.7 50.5#
71 0.0 31.4 47.2#

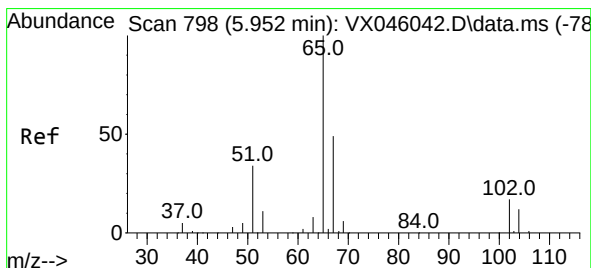
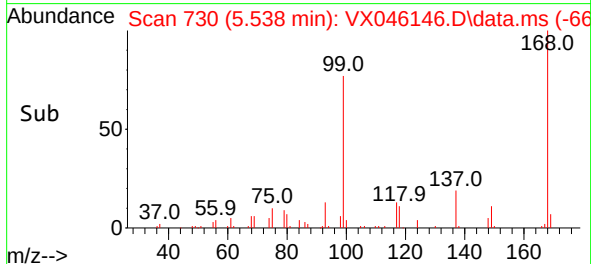
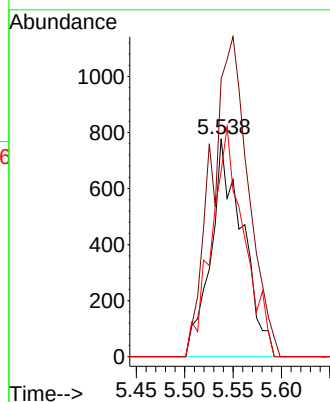
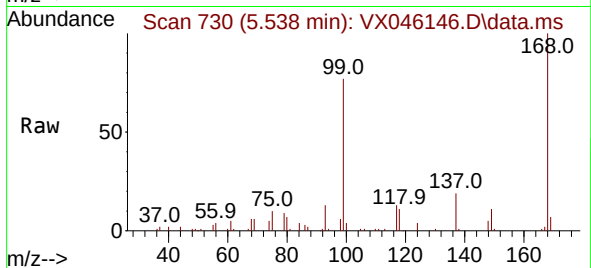




#31
Cyclohexane
Concen: 1.292 ug/l
RT: 5.538 min Scan# 718
Delta R.T. 0.073 min
Lab File: VX046146.D
Acq: 12 May 2025 18:16

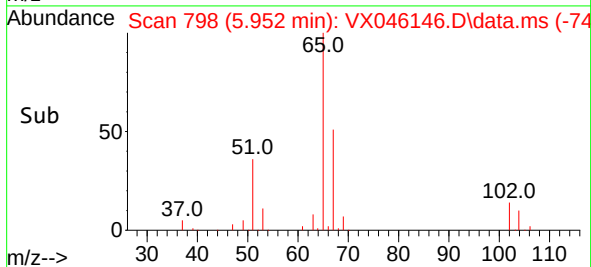
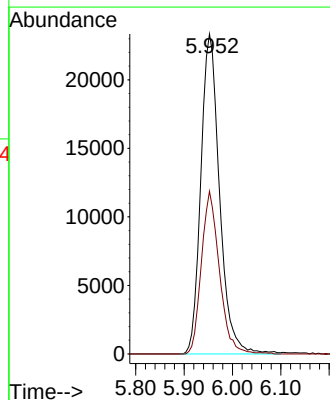
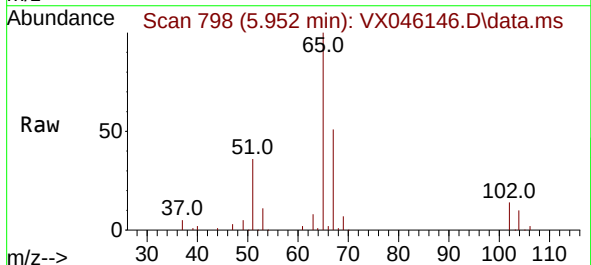
Instrument :
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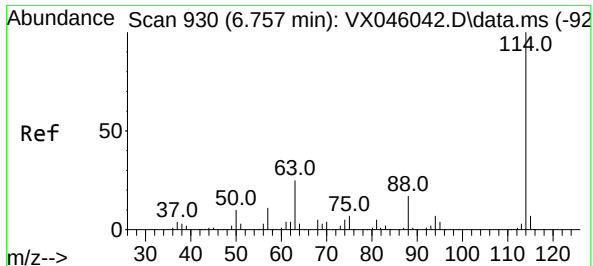
Tgt Ion: 56 Resp: 1772
Ion Ratio Lower Upper
56 100
69 127.5 24.4 36.6#
84 85.0 66.9 100.3



#33
1,2-Dichloroethane-d4
Concen: 54.503 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX046146.D
Acq: 12 May 2025 18:16

Tgt Ion: 65 Resp: 62733
Ion Ratio Lower Upper
65 100
67 48.8 0.0 99.0

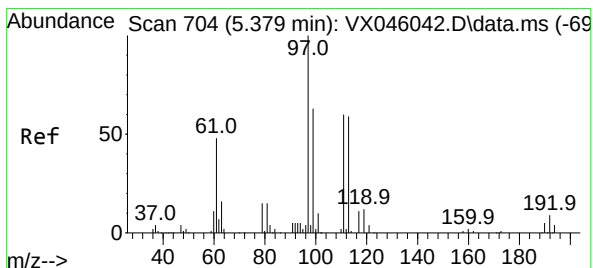
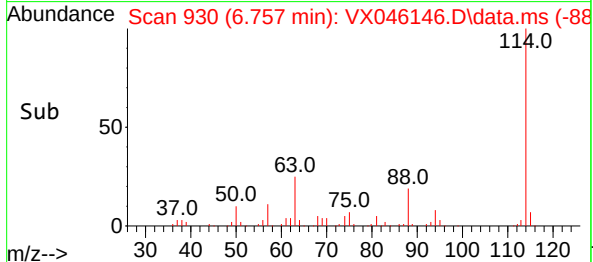
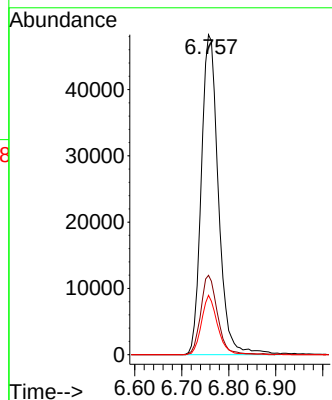
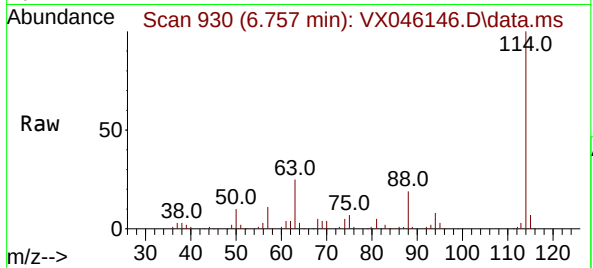




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 911
Delta R.T. 0.000 min
Lab File: VX046146.D
Acq: 12 May 2025 18:16

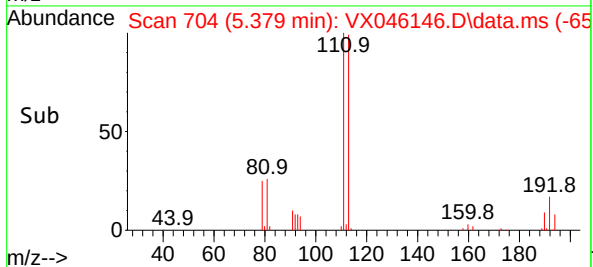
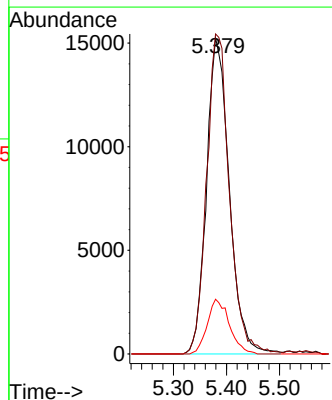
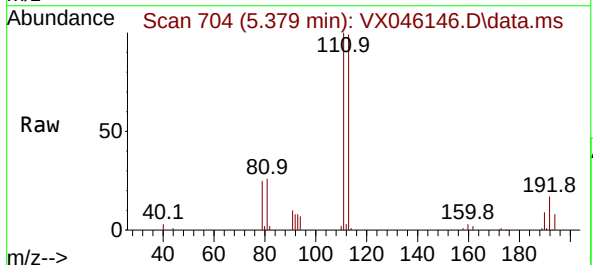
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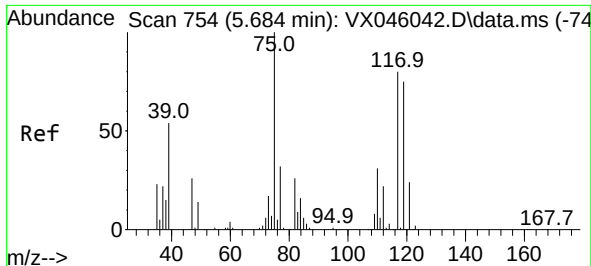
Tgt Ion:114 Resp: 122025
Ion Ratio Lower Upper
114 100
63 24.8 0.0 49.2
88 18.5 0.0 33.6



#35
Dibromofluoromethane
Concen: 51.761 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX046146.D
Acq: 12 May 2025 18:16

Tgt Ion:113 Resp: 45483
Ion Ratio Lower Upper
113 100
111 101.5 83.1 124.7
192 16.9 13.3 19.9

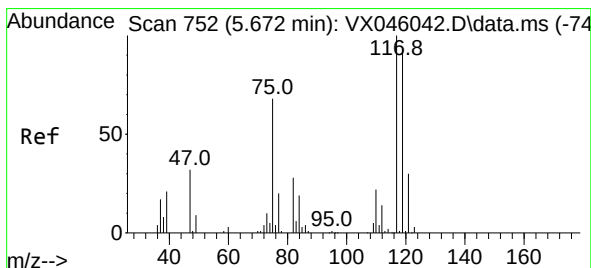
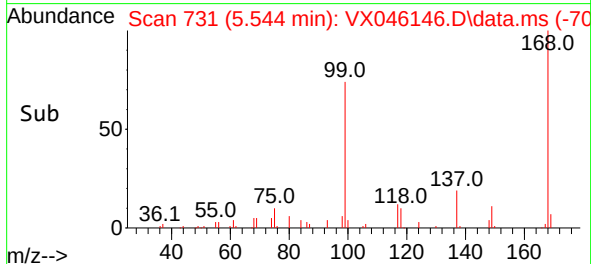
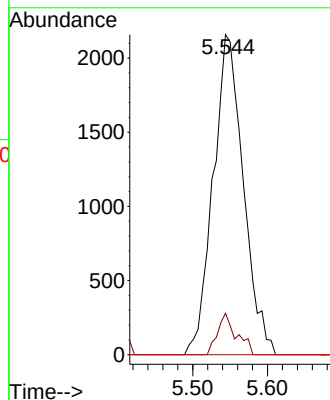
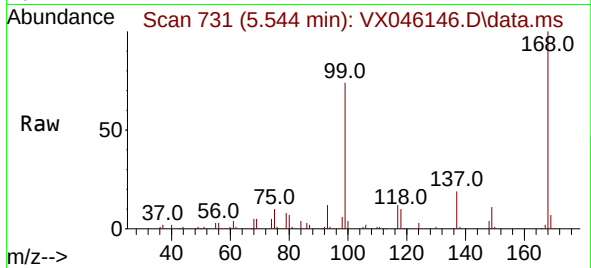




#36
1,1-Dichloropropene
Concen: 5.137 ug/l
RT: 5.544 min Scan# 711
Delta R.T. -0.140 min
Lab File: VX046146.D
Acq: 12 May 2025 18:16

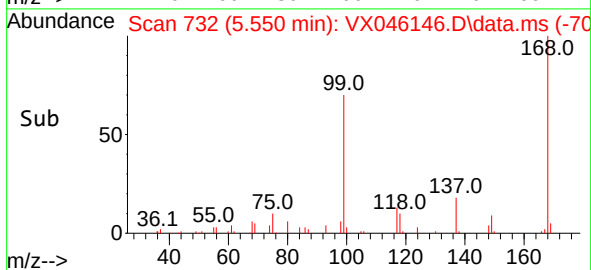
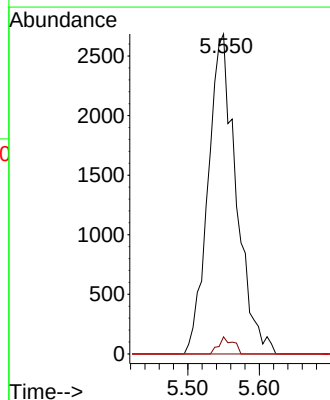
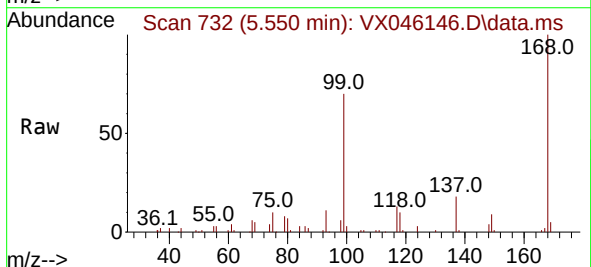
Instrument :
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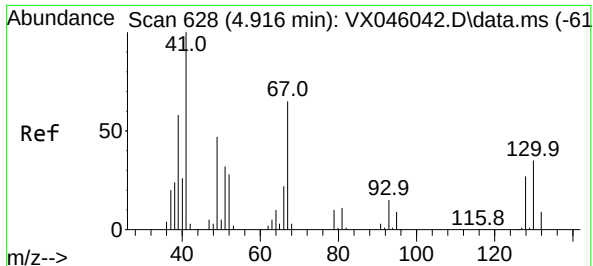
Tgt Ion: 75 Resp: 6065
Ion Ratio Lower Upper
75 100
110 8.1 16.3 48.9#
77 0.0 24.3 36.5#



#38
Carbon Tetrachloride
Concen: 5.525 ug/l
RT: 5.550 min Scan# 732
Delta R.T. -0.122 min
Lab File: VX046146.D
Acq: 12 May 2025 18:16

Tgt Ion: 117 Resp: 7329
Ion Ratio Lower Upper
117 100
119 5.3 75.2 112.8#
121 0.0 24.2 36.4#

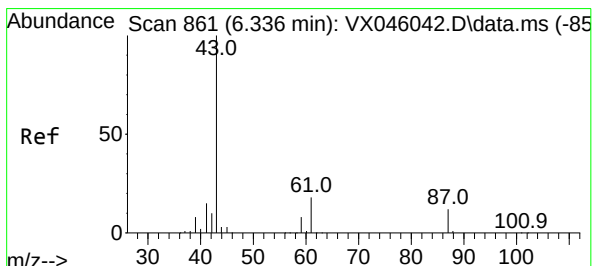
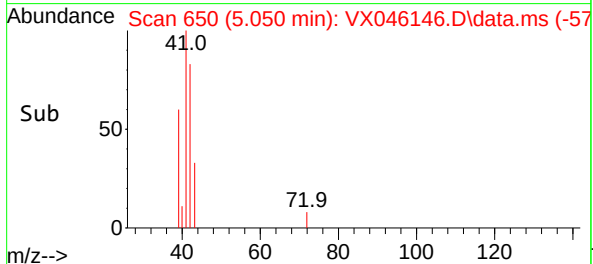
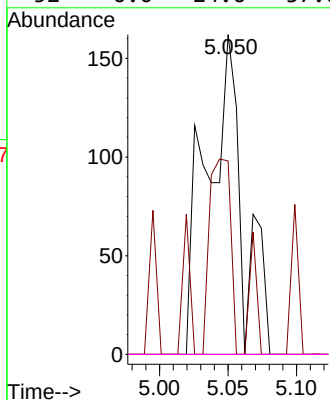
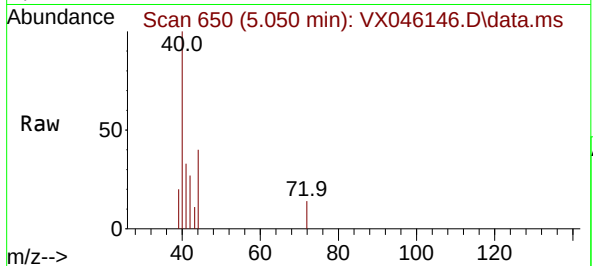




#41
Methacrylonitrile
Concen: 0.388 ug/l
RT: 5.050 min Scan# 61
Delta R.T. 0.134 min
Lab File: VX046146.D
Acq: 12 May 2025 18:16

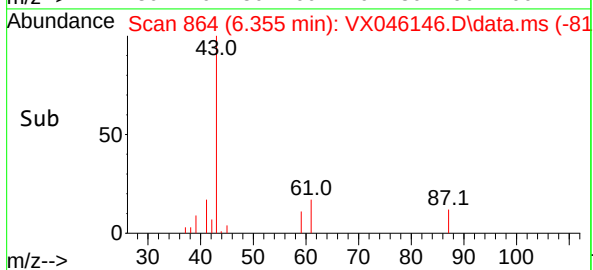
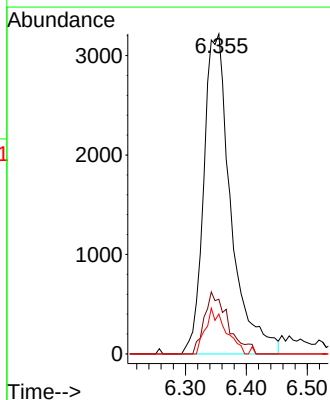
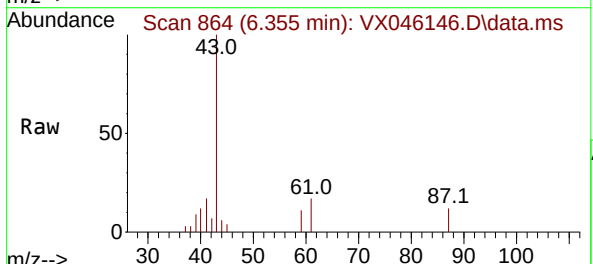
Instrument :
MSVOA_X
ClientSampleId :
2811

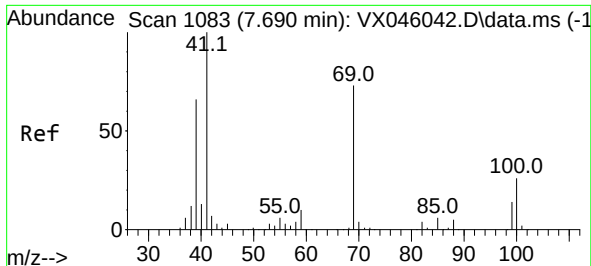
Tgt Ion: 41	Resp:	296
Ion	Ratio	Lower Upper
41	100	
39	35.5	47.2 70.8#
67	0.0	50.7 76.1#
52	0.0	24.6 37.0#



#43
Isopropyl Acetate
Concen: 4.463 ug/l
RT: 6.355 min Scan# 864
Delta R.T. 0.018 min
Lab File: VX046146.D
Acq: 12 May 2025 18:16

Tgt Ion: 43	Resp:	9932
Ion	Ratio	Lower Upper
43	100	
61	17.0	14.3 21.5
87	10.7	9.5 14.3

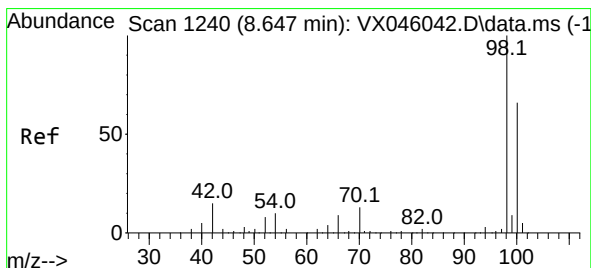
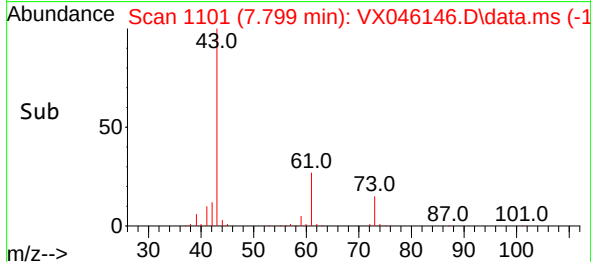
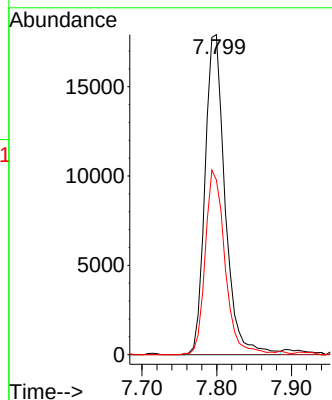
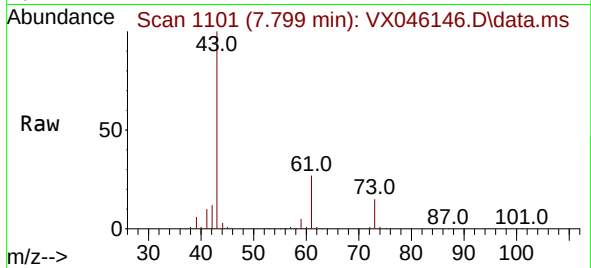




#48
Methyl methacrylate
Concen: 29.349 ug/l
RT: 7.799 min Scan# 1101
Delta R.T. 0.110 min
Lab File: VX046146.D
Acq: 12 May 2025 18:16

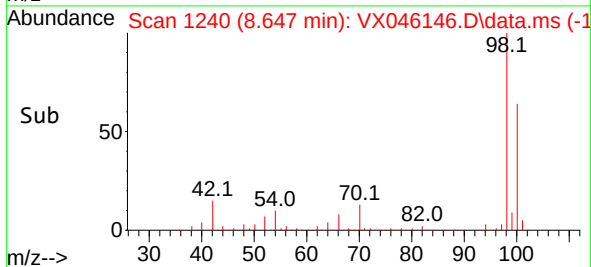
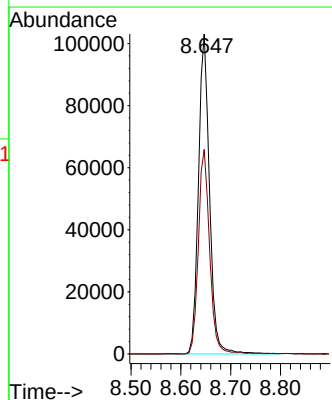
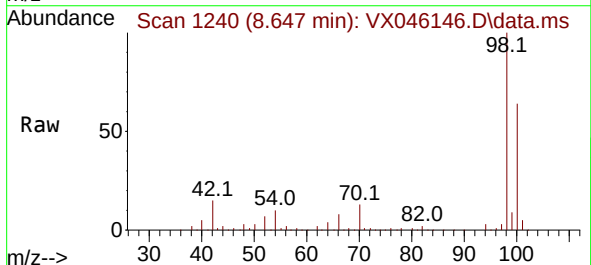
Instrument :
MSVOA_X
ClientSampleId :
2811

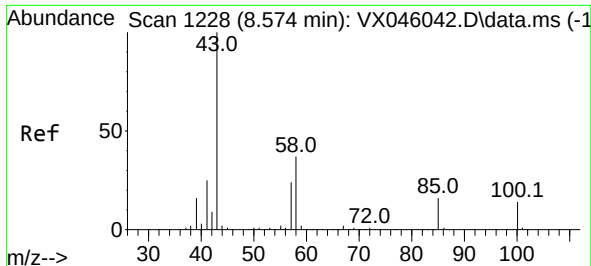
Tgt Ion: 41 Resp: 33354
Ion Ratio Lower Upper
41 100
69 0.0 58.5 87.7#
39 57.1 51.7 77.5



#50
Toluene-d8
Concen: 52.070 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX046146.D
Acq: 12 May 2025 18:16

Tgt Ion: 98 Resp: 158363
Ion Ratio Lower Upper
98 100
100 65.3 53.5 80.3

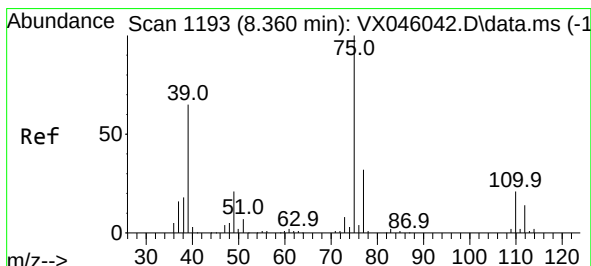
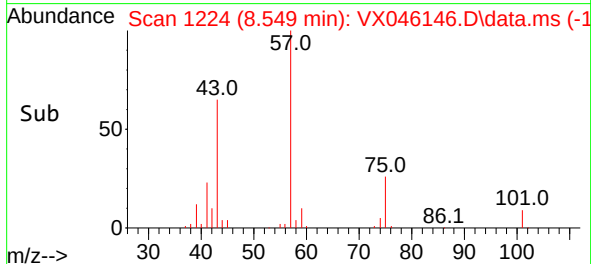
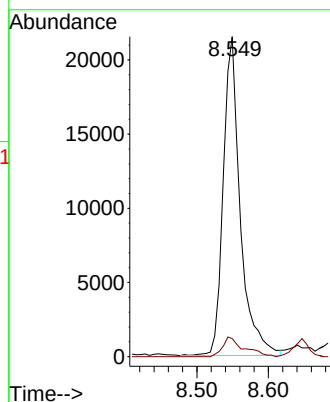
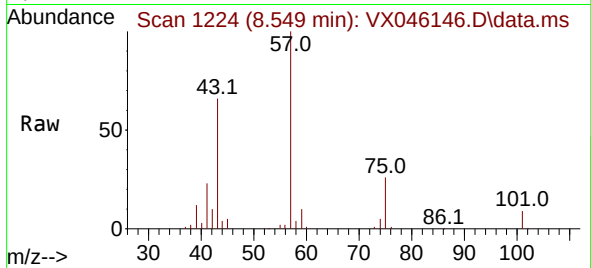




#51
4-Methyl-2-Pentanone
Concen: 24.052 ug/l
RT: 8.549 min Scan# 11
Delta R.T. -0.024 min
Lab File: VX046146.D
Acq: 12 May 2025 18:16

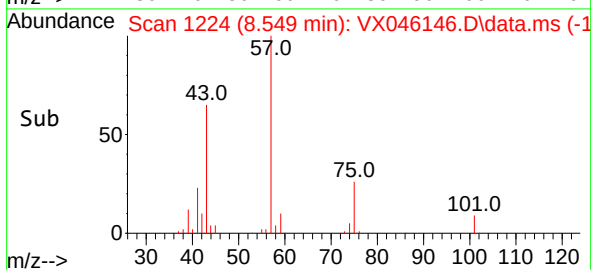
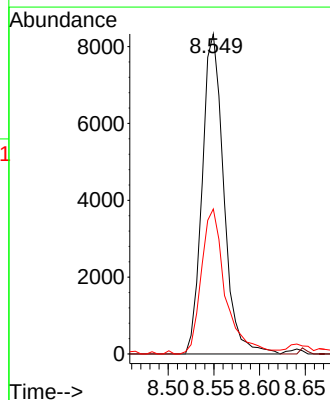
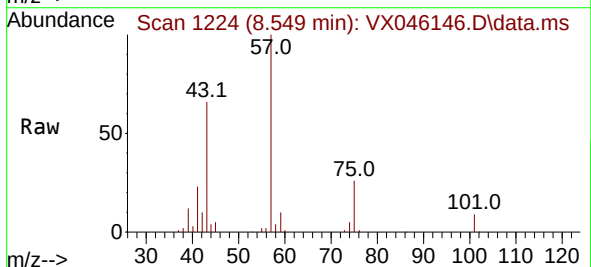
Instrument :
MSVOA_X
ClientSampleId :
2811

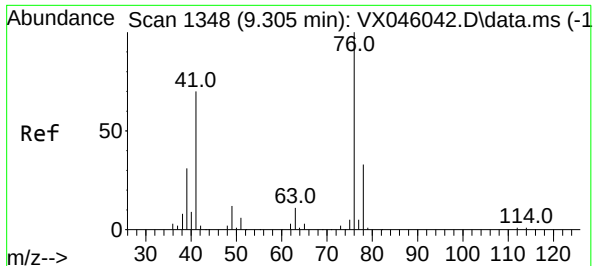
Tgt Ion: 43 Resp: 35527
Ion Ratio Lower Upper
43 100
58 7.6 28.9 43.3#



#54
cis-1,3-Dichloropropene
Concen: 10.401 ug/l
RT: 8.549 min Scan# 1224
Delta R.T. 0.189 min
Lab File: VX046146.D
Acq: 12 May 2025 18:16

Tgt Ion: 75 Resp: 13649
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.0#
39 45.3 52.2 78.4#





#57

1,3-Dichloropropane

Concen: 0.775 ug/l

RT: 9.482 min Scan# 11

Delta R.T. 0.177 min

Lab File: VX046146.D

Acq: 12 May 2025 18:16

Instrument :

MSVOA_X

ClientSampleId :

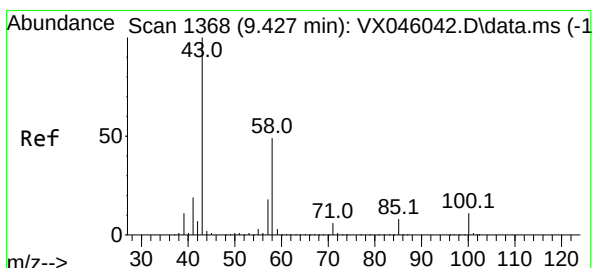
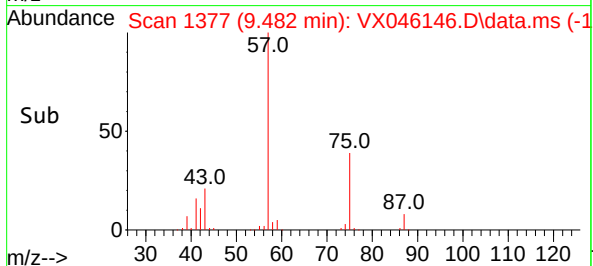
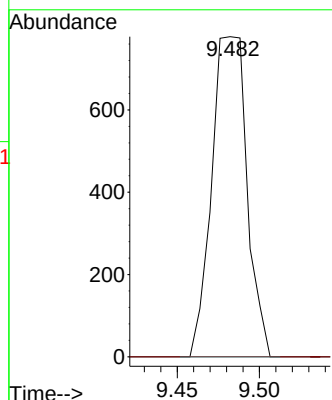
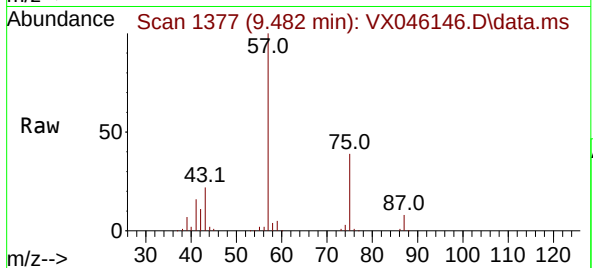
2811

Tgt Ion: 76 Resp: 1164

Ion Ratio Lower Upper

76 100

78 0.0 26.3 39.5#



#59

2-Hexanone

Concen: 10.490 ug/l

RT: 9.378 min Scan# 1360

Delta R.T. -0.049 min

Lab File: VX046146.D

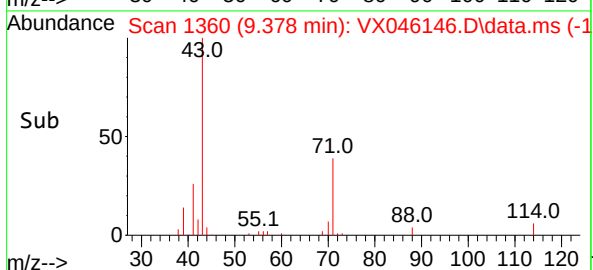
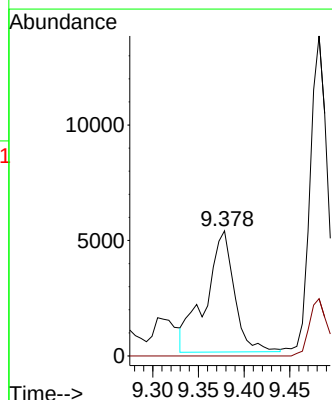
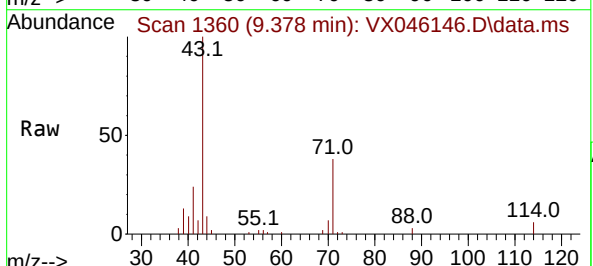
Acq: 12 May 2025 18:16

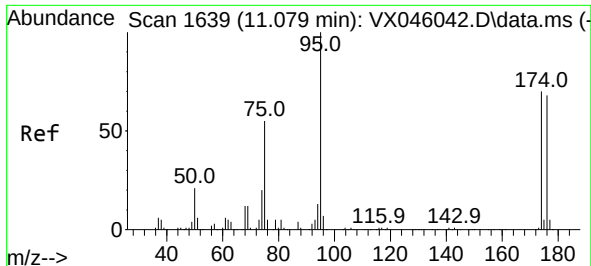
Tgt Ion: 43 Resp: 11464

Ion Ratio Lower Upper

43 100

58 0.0 24.9 74.6#

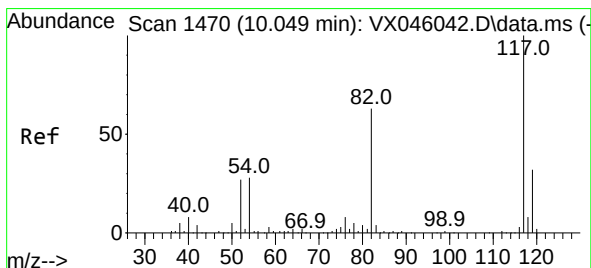
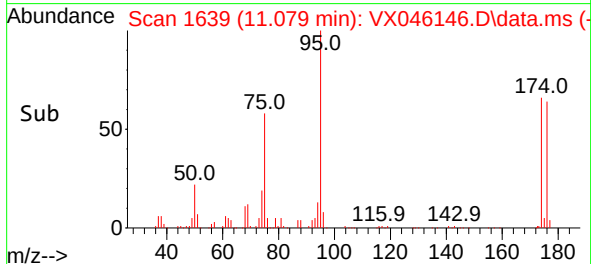
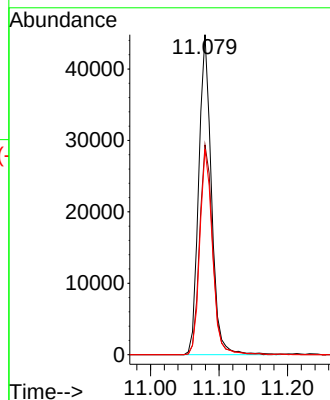
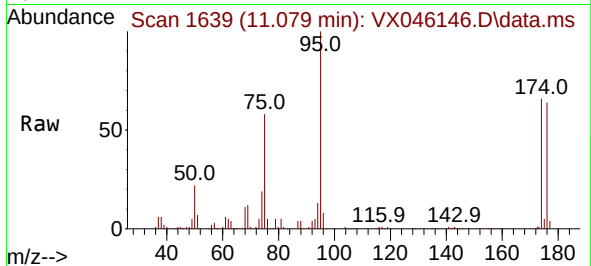




#62
4-Bromofluorobenzene
Concen: 49.577 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046146.D
Acq: 12 May 2025 18:16

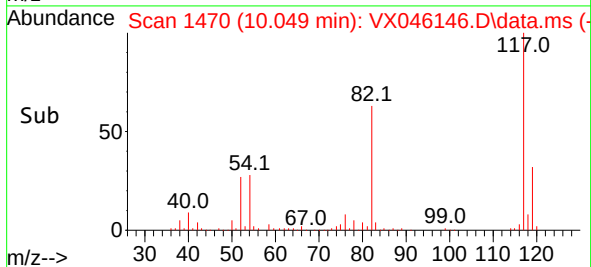
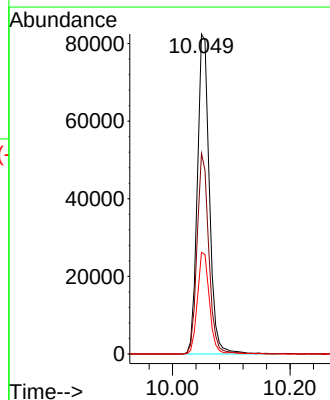
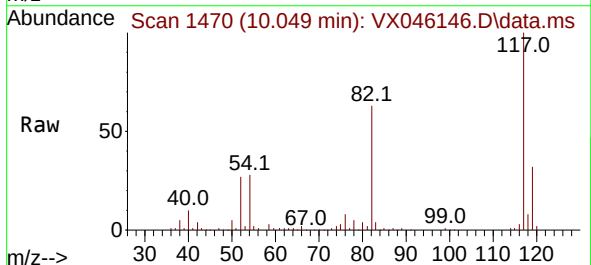
Instrument :
MSVOA_X
ClientSampleId :
2811

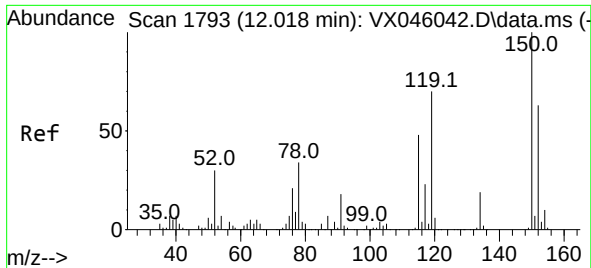
Tgt Ion: 95 Resp: 57837
Ion Ratio Lower Upper
95 100
174 67.6 0.0 135.8
176 64.0 0.0 131.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX046146.D
Acq: 12 May 2025 18:16

Tgt Ion: 117 Resp: 117034
Ion Ratio Lower Upper
117 100
82 62.6 50.6 76.0
119 31.7 25.8 38.6

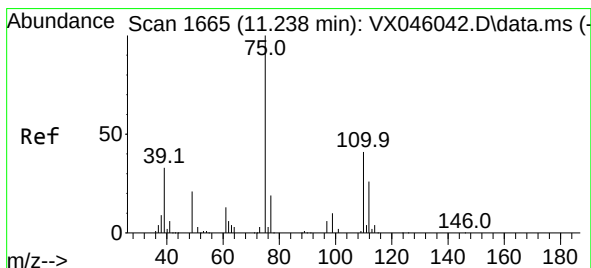
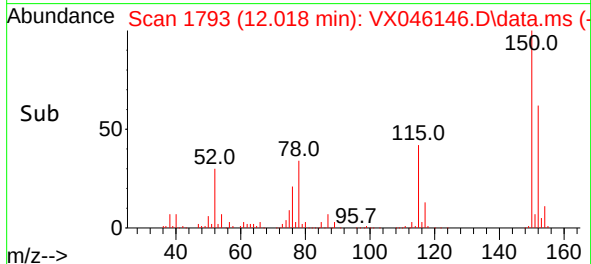
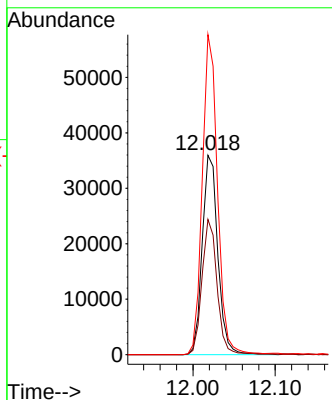
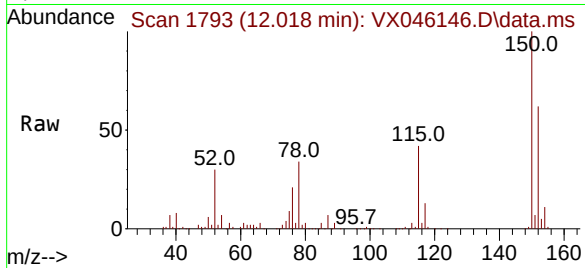




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.018 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VX046146.D
 Acq: 12 May 2025 18:16

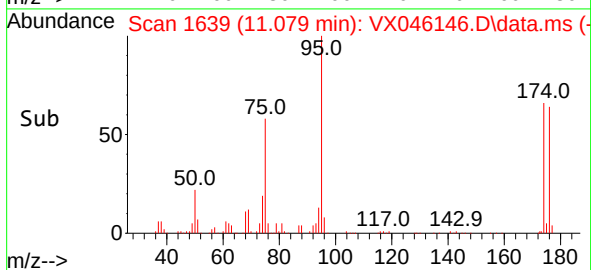
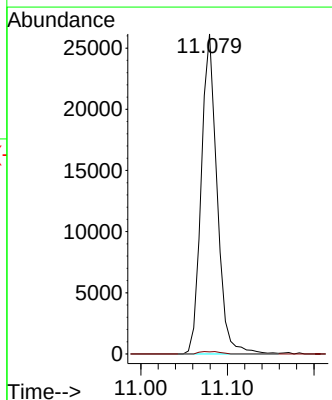
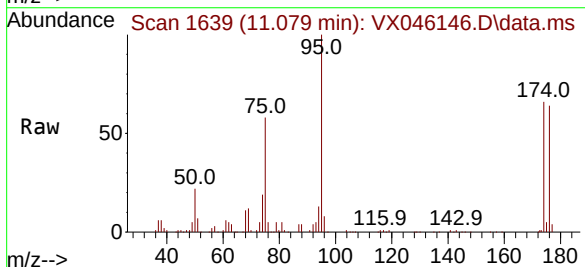
Instrument :
 MSVOA_X
 ClientSampleId :
 2811

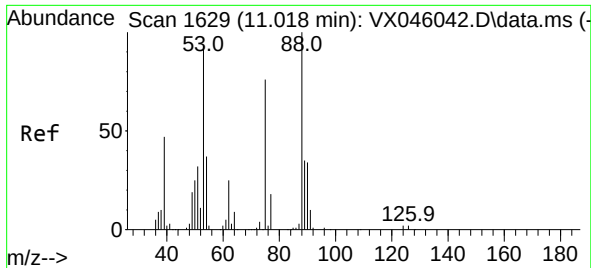
Tgt Ion:152 Resp: 47598
 Ion Ratio Lower Upper
 152 100
 115 65.4 46.9 140.7
 150 155.5 0.0 351.0



#76
 1,2,3-Trichloropropane
 Concen: 28.995 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. -0.158 min
 Lab File: VX046146.D
 Acq: 12 May 2025 18:16

Tgt Ion: 75 Resp: 33220
 Ion Ratio Lower Upper
 75 100
 77 1.0 20.5 61.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 94.399 ug/l
 RT: 11.079 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX046146.D
 Acq: 12 May 2025 18:16

Instrument :
 MSVOA_X
 ClientSampleId :
 2811

Tgt Ion: 75 Resp: 33220
 Ion Ratio Lower Upper
 75 100
 53 0.0 100.5 150.7#
 89 0.0 37.0 55.6#

