

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
 Data File : VX048275.D
 Acq On : 21 Oct 2025 17:07
 Operator : JC/MD
 Sample : Q3361-01DL 10X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VOA 251015111-01DL

Quant Time: Oct 24 04:29:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 20 14:13:59 2025
 Response via : Initial Calibration

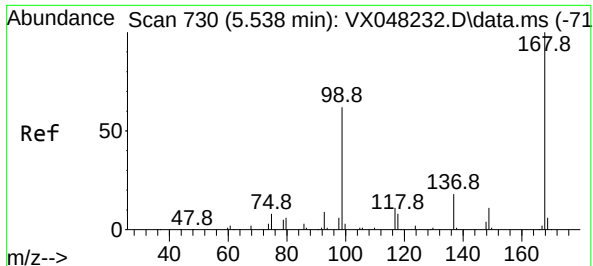
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.538	168	105623	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	200756	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	218533	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	120634	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	81387	54.957	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 109.920%			
35) Dibromofluoromethane	5.373	113	66301	48.375	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.760%			
50) Toluene-d8	8.635	98	229978	47.873	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 95.740%			
62) 4-Bromofluorobenzene	11.061	95	105847	57.917	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 115.840%			
Target Compounds					Qvalue	
8) Diethyl Ether	2.136	74	225	0.444	ug/l	55
11) Tert butyl alcohol	2.940	59	58478	397.713	ug/l	96
13) Acrolein	2.361	56	73	0.487	ug/l #	1
14) Allyl chloride	2.642	41	567	0.308	ug/l #	34
15) Acrylonitrile	2.934	53	687	1.296	ug/l #	31
16) Acetone	2.373	43	64094	126.160	ug/l	99
18) Methyl Acetate	2.703	43	1233	1.162	ug/l #	80
25) 2-Butanone	4.544	43	99635	154.943	ug/l	94
26) 2,2-Dichloropropane	4.532	77	792	0.395	ug/l #	54
29) Tetrahydrofuran	4.995	42	17863	46.383	ug/l	97
31) Cyclohexane	5.538	56	1629	0.886	ug/l #	17
36) 1,1-Dichloropropene	5.538	75	8376	4.300	ug/l #	48
37) Ethyl Acetate	4.544	43	99635	61.707	ug/l #	71
38) Carbon Tetrachloride	5.544	117	11145	4.637	ug/l #	14
40) Benzene	6.037	78	2585	0.457	ug/l	96
41) Methacrylonitrile	4.995	41	11721	13.823	ug/l #	46
51) 4-Methyl-2-Pentanone	8.561	43	1465	0.958	ug/l #	81
52) Toluene	8.708	92	4593	1.278	ug/l	96
67) Ethyl Benzene	10.177	91	6450	0.771	ug/l	96
68) m/p-Xylenes	10.287	106	2155	0.693	ug/l	98
69) o-Xylene	10.628	106	1321	0.440	ug/l	82
76) 1,2,3-Trichloropropane	11.061	75	55159	28.196	ug/l #	33
81) trans-1,4-Dichloro-2-b...	11.061	75	55159	68.599	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.732	105	1554	0.214	ug/l	95
86) p-Isopropyltoluene	11.994	119	4314	0.554	ug/l	91
87) 1,3-Dichlorobenzene	12.024	146	1005	0.241	ug/l #	1
88) 1,4-Dichlorobenzene	12.024	146	1005	0.233	ug/l #	1
95) Naphthalene	13.762	128	9408	1.343	ug/l	98

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

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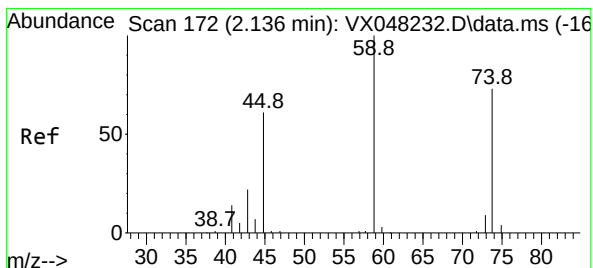
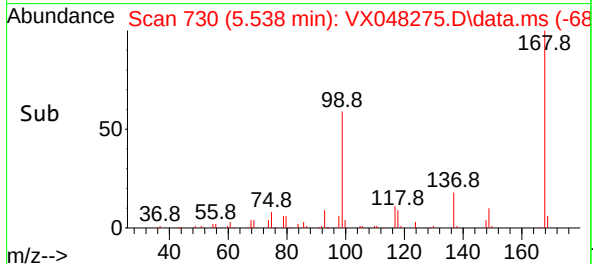
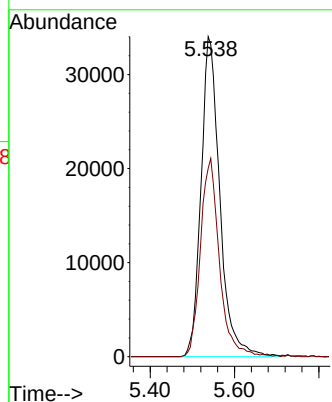
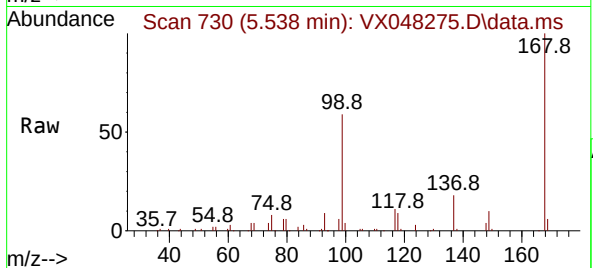




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX048275.D
Acq: 21 Oct 2025 17:07

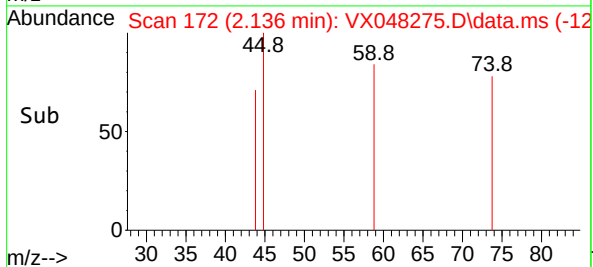
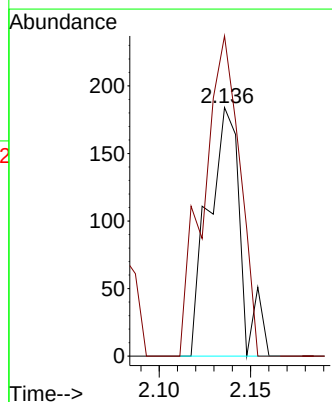
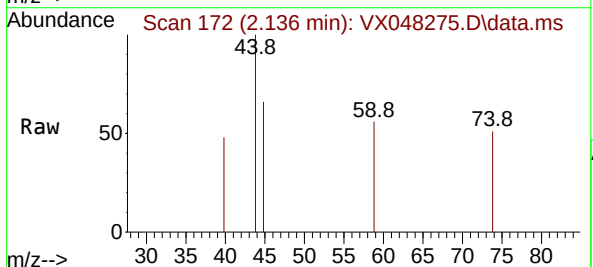
Instrument :
MSVOA_X
ClientSampleId :
VOA 251015111-01DL

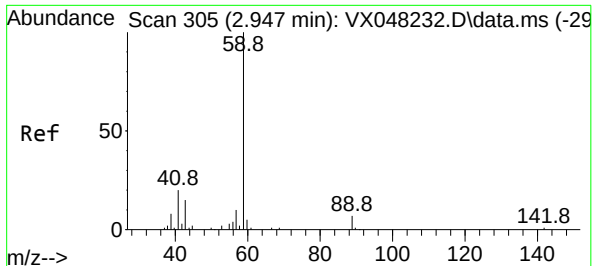
Tgt Ion:168 Resp: 105623
Ion Ratio Lower Upper
168 100
99 58.9 46.4 69.6



#8
Diethyl Ether
Concen: 0.444 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX048275.D
Acq: 21 Oct 2025 17:07

Tgt Ion: 74 Resp: 225
Ion Ratio Lower Upper
74 100
45 145.3 50.0 149.8





#11

Tert butyl alcohol

Concen: 397.713 ug/l

RT: 2.940 min Scan# 305

Delta R.T. -0.000 min

Lab File: VX048275.D

Acq: 21 Oct 2025 17:07

Instrument :

MSVOA_X

ClientSampleId :

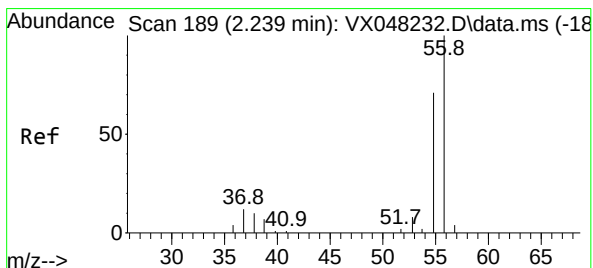
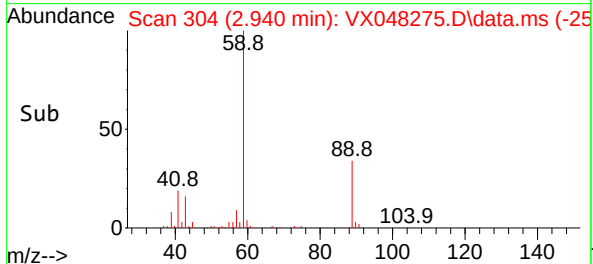
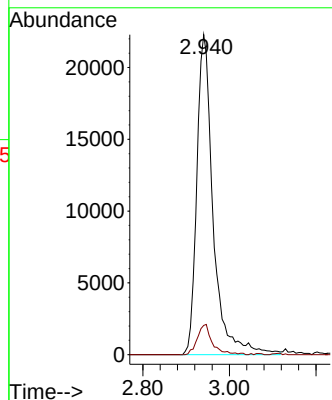
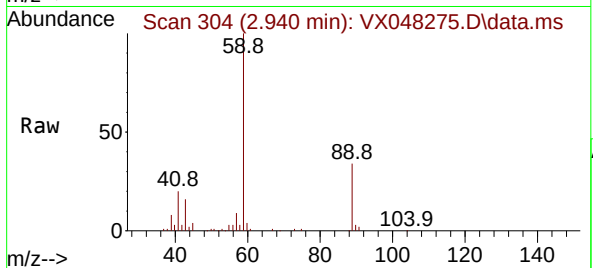
VOA 251015111-01DL

Tgt Ion: 59 Resp: 58478

Ion Ratio Lower Upper

59 100

57 8.7 8.2 12.4



#13

Acrolein

Concen: 0.487 ug/l

RT: 2.361 min Scan# 209

Delta R.T. 0.128 min

Lab File: VX048275.D

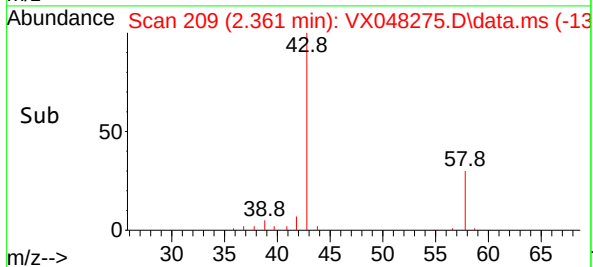
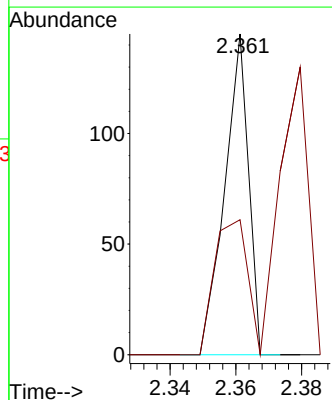
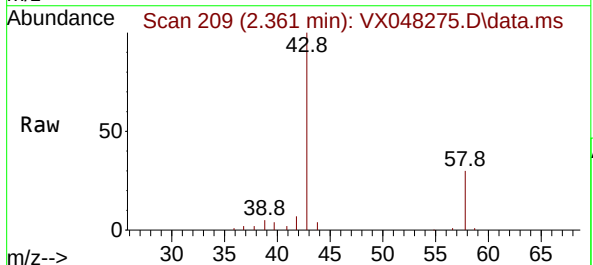
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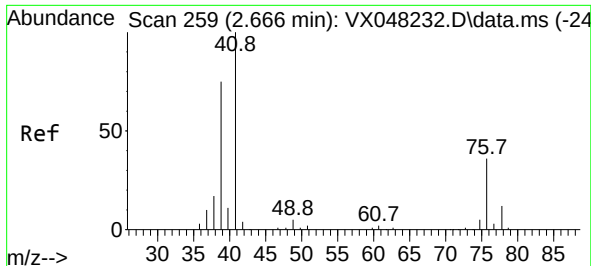
Tgt Ion: 56 Resp: 73

Ion Ratio Lower Upper

56 100

55 165.8 56.1 84.1#

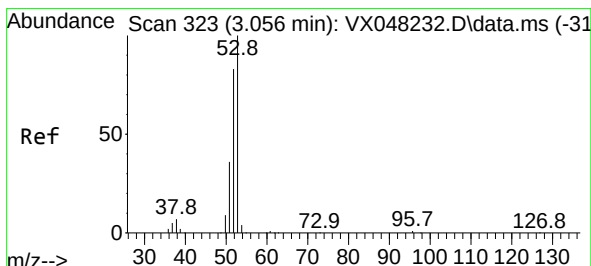
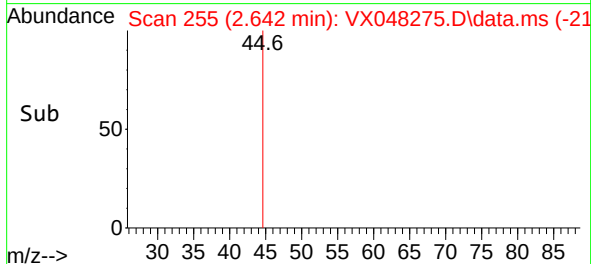
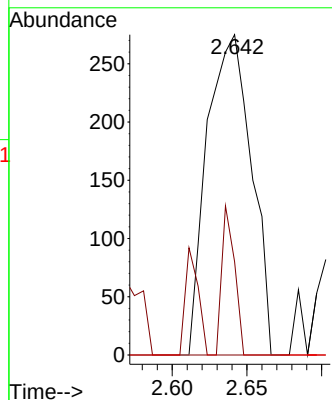
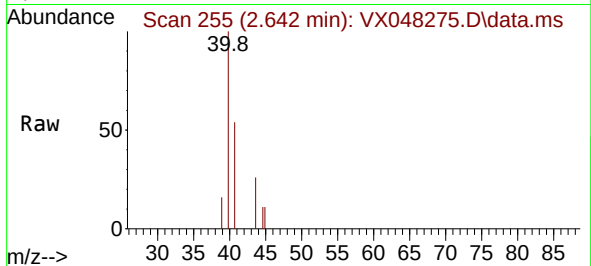




#14
 Allyl chloride
 Concen: 0.308 ug/l
 RT: 2.642 min Scan# 21
 Delta R.T. -0.024 min
 Lab File: VX048275.D
 Acq: 21 Oct 2025 17:07

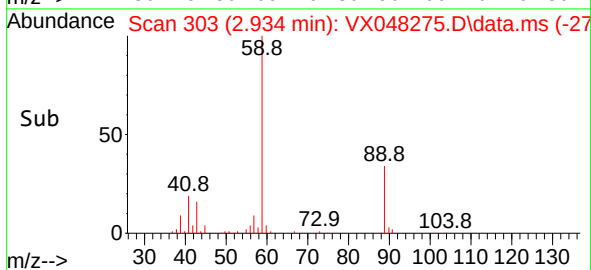
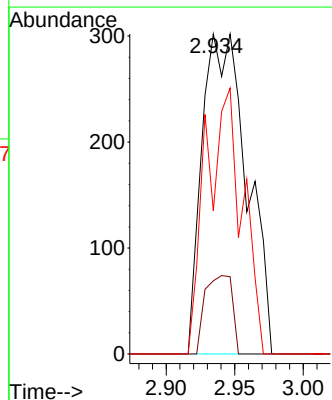
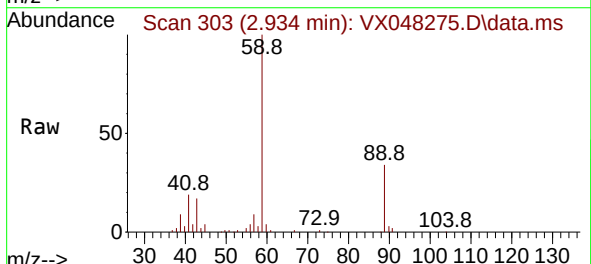
Instrument :
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 VOA 251015111-01DL

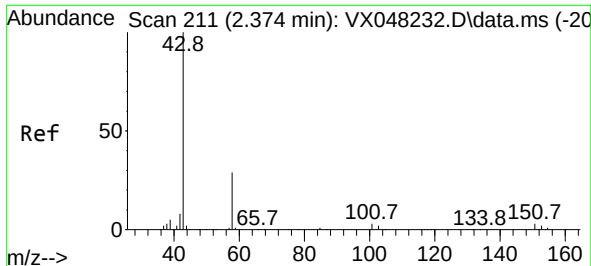
Tgt Ion: 41 Resp: 567
 Ion Ratio Lower Upper
 41 100
 39 13.4 56.0 84.0#
 76 0.0 27.5 41.3#



#15
 Acrylonitrile
 Concen: 1.296 ug/l
 RT: 2.934 min Scan# 303
 Delta R.T. -0.122 min
 Lab File: VX048275.D
 Acq: 21 Oct 2025 17:07

Tgt Ion: 53 Resp: 687
 Ion Ratio Lower Upper
 53 100
 52 14.7 66.1 99.1#
 51 67.7 29.0 43.4#

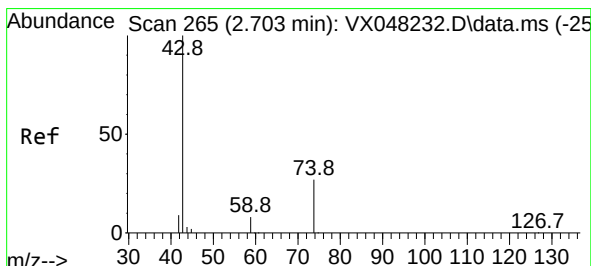
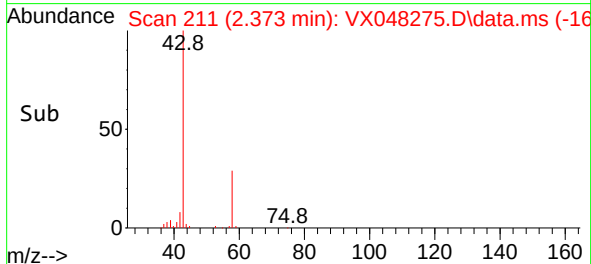
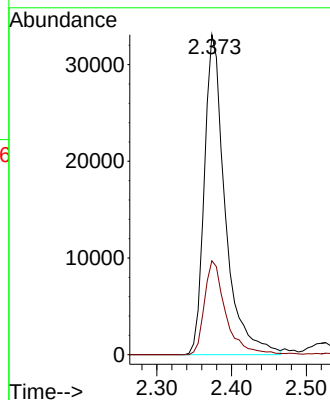
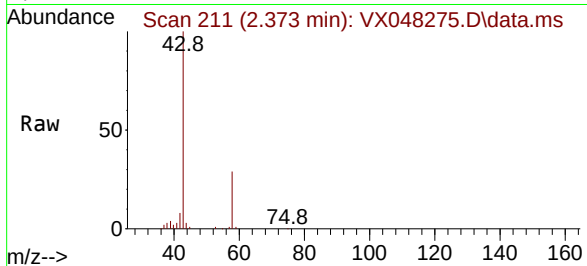




#16
Acetone
Concen: 126.160 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX048275.D
Acq: 21 Oct 2025 17:07

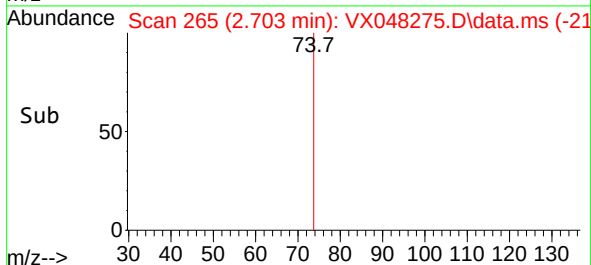
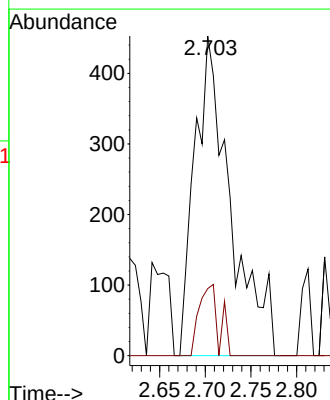
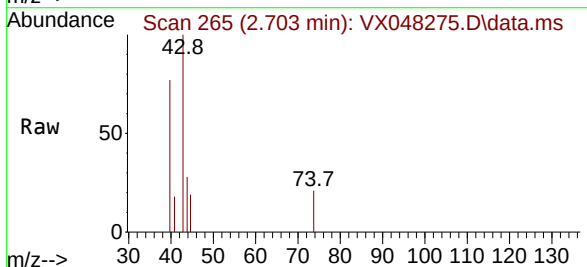
Instrument :
MSVOA_X
ClientSampleId :
VOA 251015111-01DL

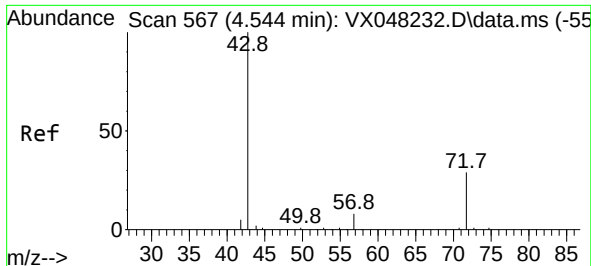
Tgt Ion: 43 Resp: 64094
Ion Ratio Lower Upper
43 100
58 28.6 23.4 35.2



#18
Methyl Acetate
Concen: 1.162 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.006 min
Lab File: VX048275.D
Acq: 21 Oct 2025 17:07

Tgt Ion: 43 Resp: 1233
Ion Ratio Lower Upper
43 100
74 12.2 17.5 26.3#

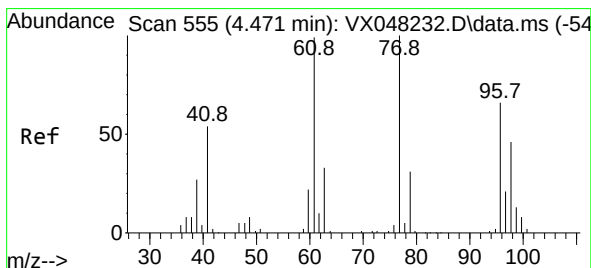
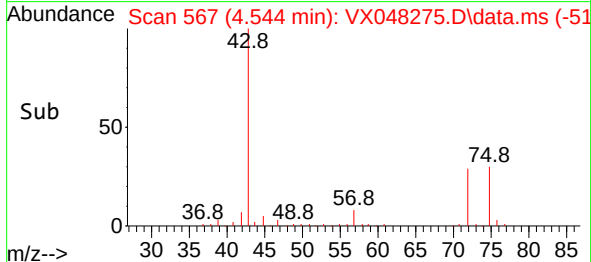
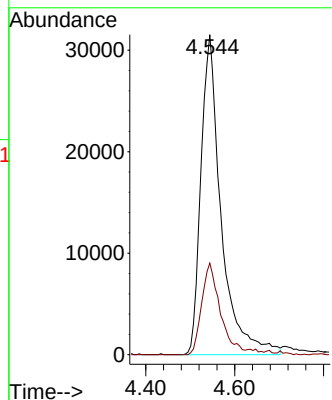
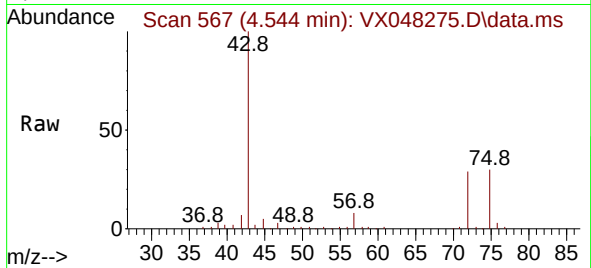




#25
2-Butanone
Concen: 154.943 ug/l
RT: 4.544 min Scan# 50
Delta R.T. 0.006 min
Lab File: VX048275.D
Acq: 21 Oct 2025 17:07

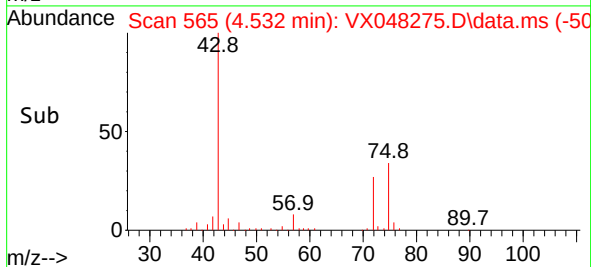
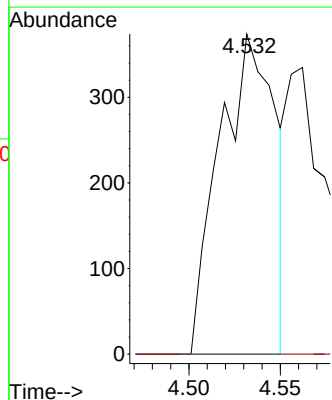
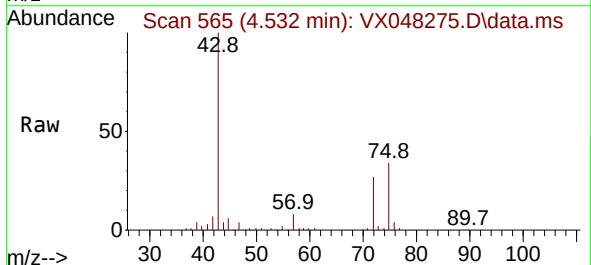
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ClientSampleId :
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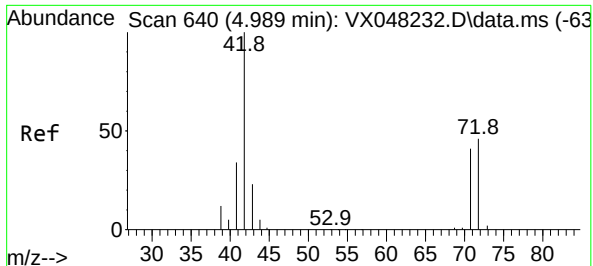
Tgt Ion: 43 Resp: 99635
Ion Ratio Lower Upper
43 100
72 28.1 19.9 29.9



#26
2,2-Dichloropropane
Concen: 0.395 ug/l
RT: 4.532 min Scan# 565
Delta R.T. 0.067 min
Lab File: VX048275.D
Acq: 21 Oct 2025 17:07

Tgt Ion: 77 Resp: 792
Ion Ratio Lower Upper
77 100
97 0.0 11.1 33.3#





#29

Tetrahydrofuran

Concen: 46.383 ug/l

RT: 4.995 min Scan# 641

Delta R.T. 0.006 min

Lab File: VX048275.D

Acq: 21 Oct 2025 17:07

Instrument :

MSVOA_X

ClientSampleId :

VOA 251015111-01DL

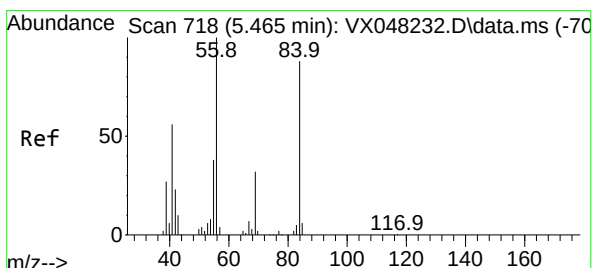
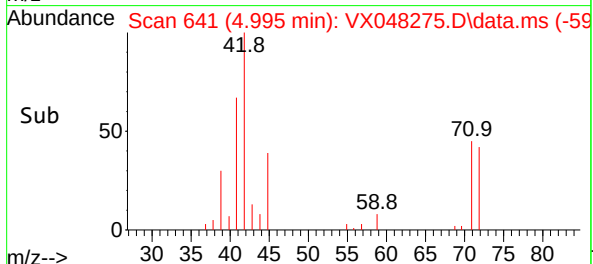
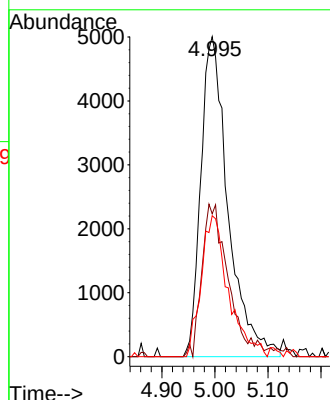
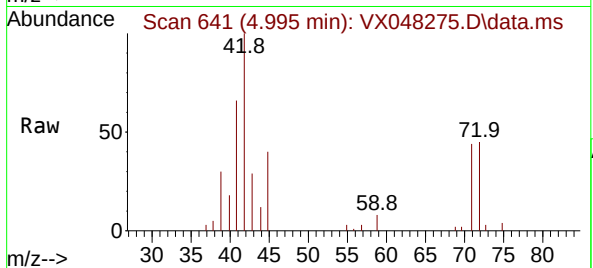
Tgt Ion: 42 Resp: 17863

Ion Ratio Lower Upper

42 100

72 44.4 35.3 52.9

71 43.9 32.2 48.4



#31

Cyclohexane

Concen: 0.886 ug/l

RT: 5.538 min Scan# 730

Delta R.T. 0.079 min

Lab File: VX048275.D

Acq: 21 Oct 2025 17:07

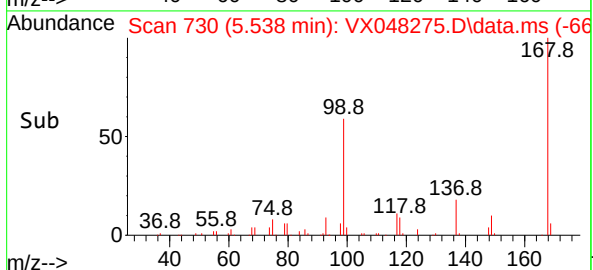
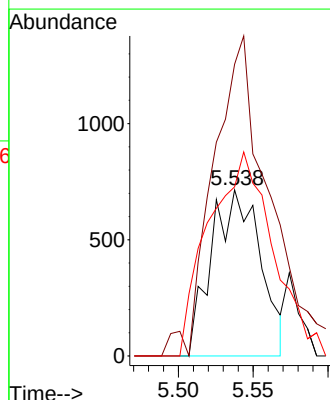
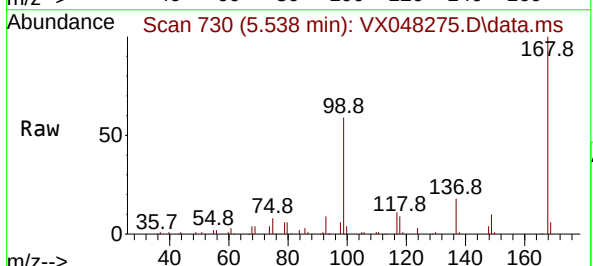
Tgt Ion: 56 Resp: 1629

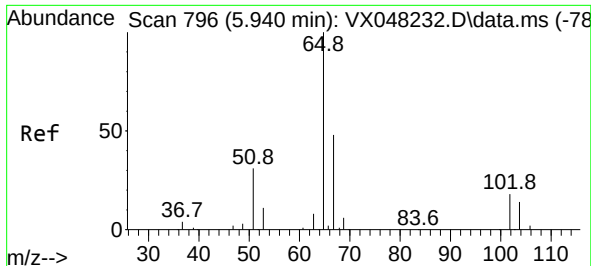
Ion Ratio Lower Upper

56 100

69 160.7 23.0 34.6#

84 101.8 64.6 97.0#

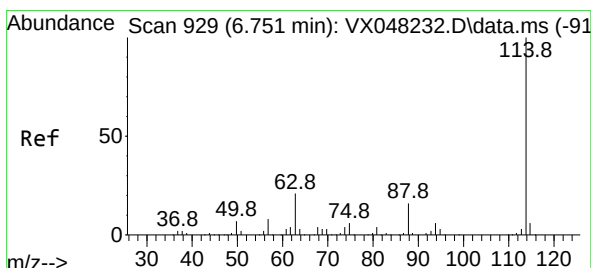
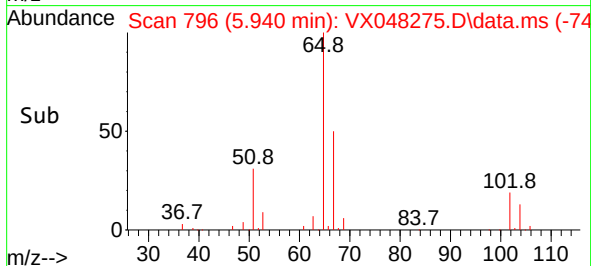
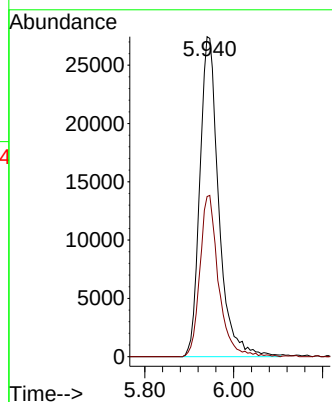
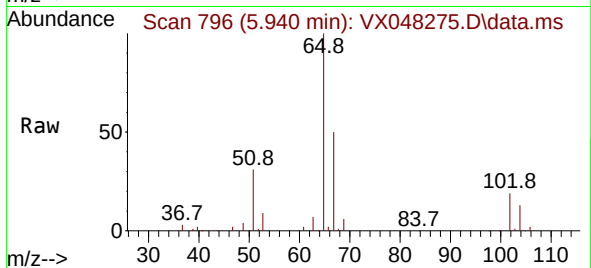




#33
 1,2-Dichloroethane-d4
 Concen: 54.957 ug/l
 RT: 5.940 min Scan# 796
 Delta R.T. -0.000 min
 Lab File: VX048275.D
 Acq: 21 Oct 2025 17:07

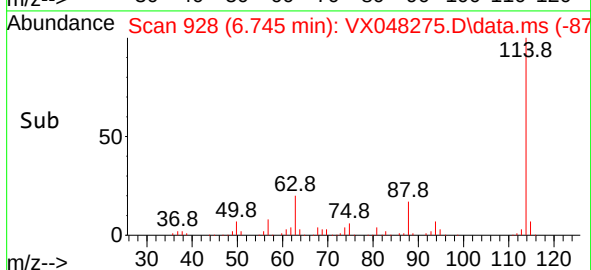
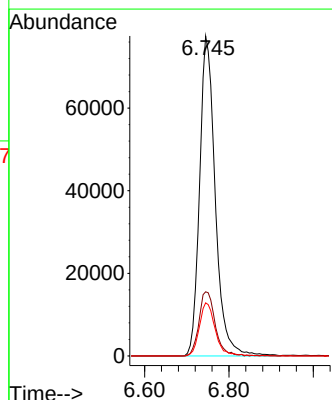
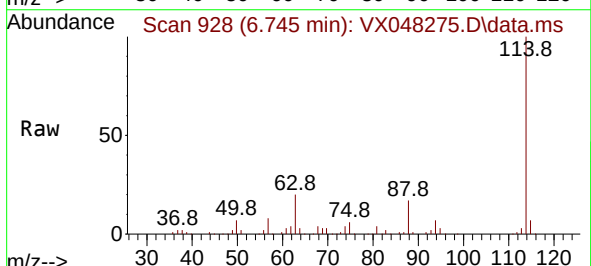
Instrument :
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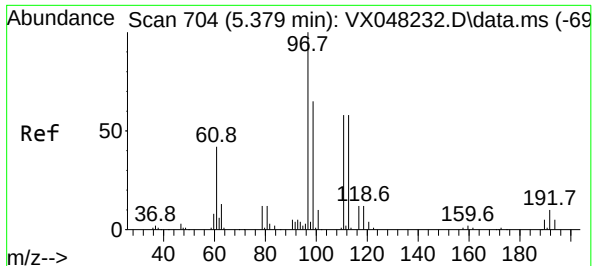
Tgt Ion: 65 Resp: 81387
 Ion Ratio Lower Upper
 65 100
 67 49.6 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.745 min Scan# 928
 Delta R.T. -0.000 min
 Lab File: VX048275.D
 Acq: 21 Oct 2025 17:07

Tgt Ion: 114 Resp: 200756
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 43.2
 88 16.6 0.0 33.6

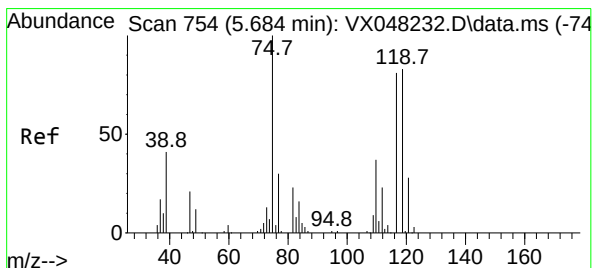
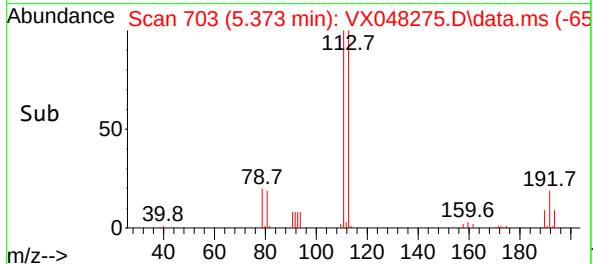
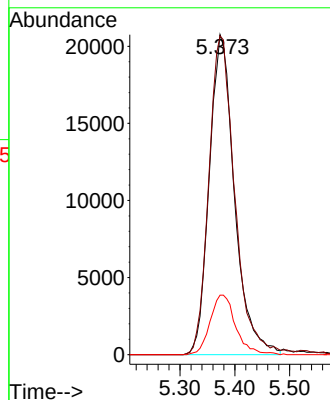
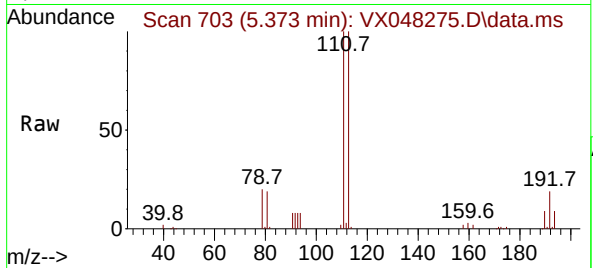




#35
Dibromofluoromethane
Concen: 48.375 ug/l
RT: 5.373 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX048275.D
Acq: 21 Oct 2025 17:07

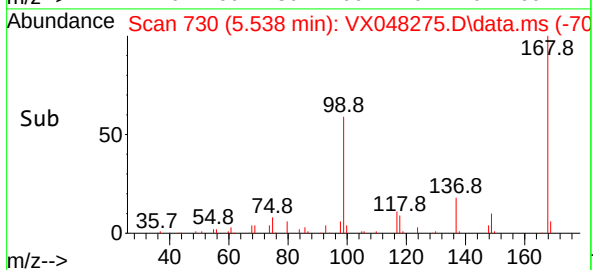
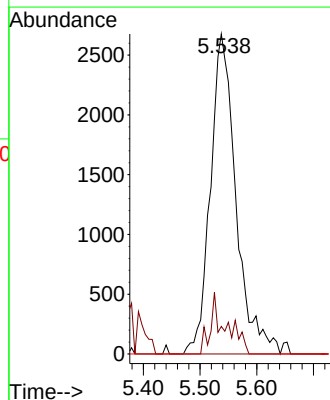
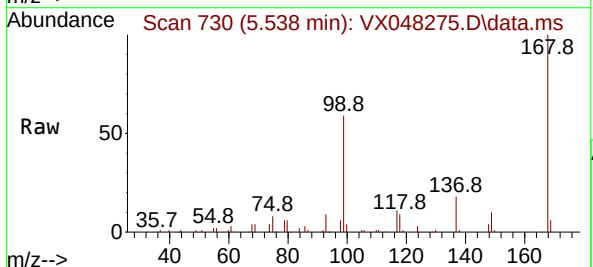
Instrument :
MSVOA_X
ClientSampleId :
VOA 251015111-01DL

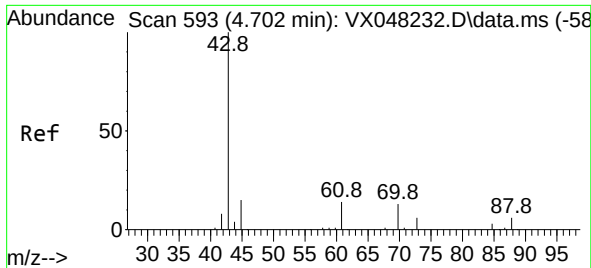
Tgt Ion:113 Resp: 66301
Ion Ratio Lower Upper
113 100
111 102.6 82.2 123.4
192 18.9 15.1 22.7



#36
1,1-Dichloropropene
Concen: 4.300 ug/l
RT: 5.538 min Scan# 730
Delta R.T. -0.146 min
Lab File: VX048275.D
Acq: 21 Oct 2025 17:07

Tgt Ion: 75 Resp: 8376
Ion Ratio Lower Upper
75 100
110 7.0 17.7 53.1#
77 0.0 24.3 36.5#

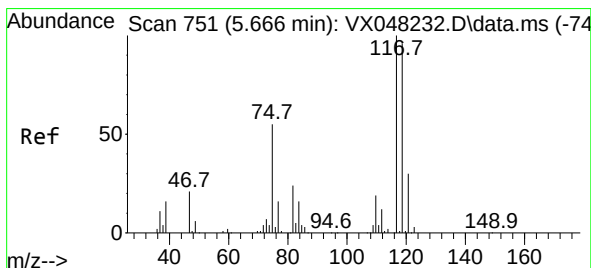
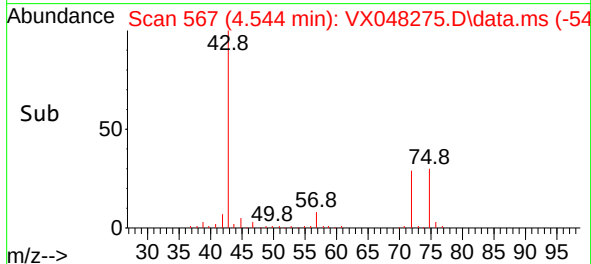
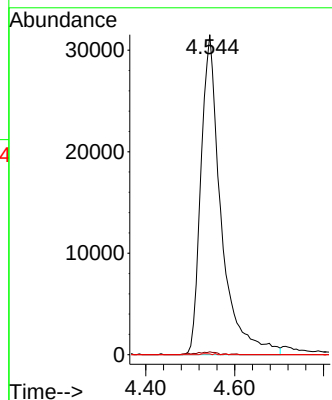
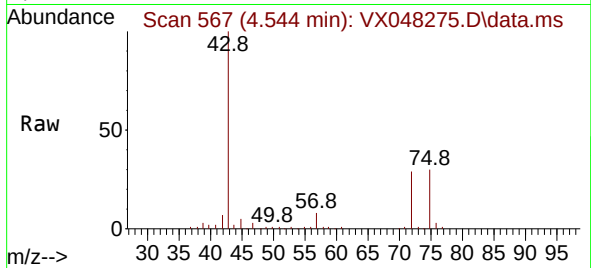




#37
Ethyl Acetate
Concen: 61.707 ug/l
RT: 4.544 min Scan# 509
Delta R.T. -0.152 min
Lab File: VX048275.D
Acq: 21 Oct 2025 17:07

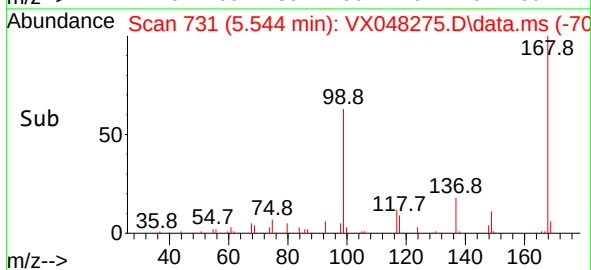
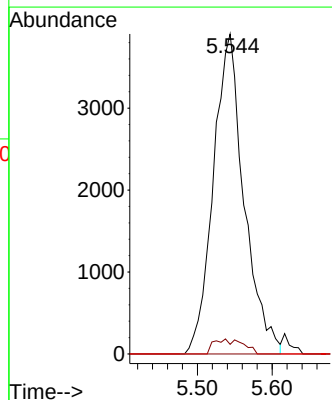
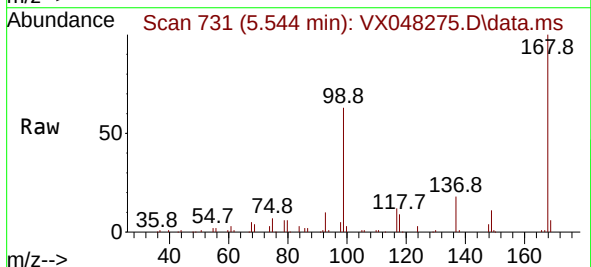
Instrument :
MSVOA_X
ClientSampleId :
VOA 251015111-01DL

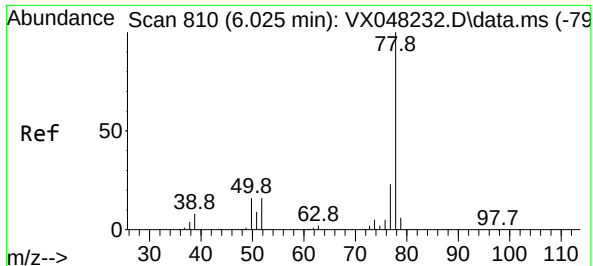
Tgt Ion: 43 Resp: 99635
Ion Ratio Lower Upper
43 100
61 0.8 10.6 15.8#
70 0.1 7.8 11.6#



#38
Carbon Tetrachloride
Concen: 4.637 ug/l
RT: 5.544 min Scan# 731
Delta R.T. -0.122 min
Lab File: VX048275.D
Acq: 21 Oct 2025 17:07

Tgt Ion: 117 Resp: 11145
Ion Ratio Lower Upper
117 100
119 3.0 77.2 115.8#
121 0.0 24.8 37.2#





#40

Benzene

Concen: 0.457 ug/l

RT: 6.037 min Scan# 810

Delta R.T. 0.012 min

Lab File: VX048275.D

Acq: 21 Oct 2025 17:07

Instrument :

MSVOA_X

ClientSampleId :

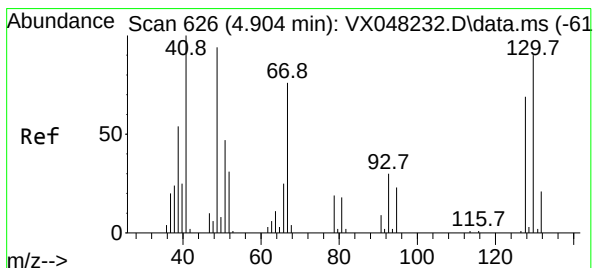
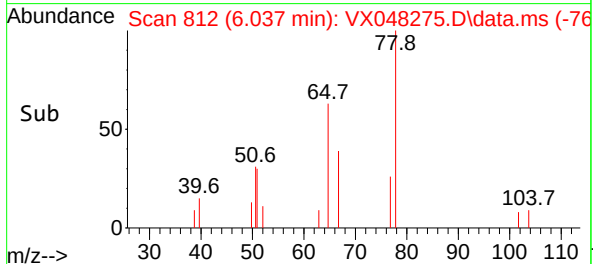
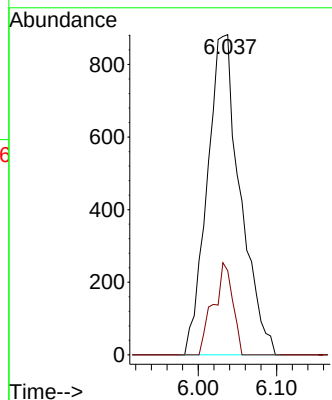
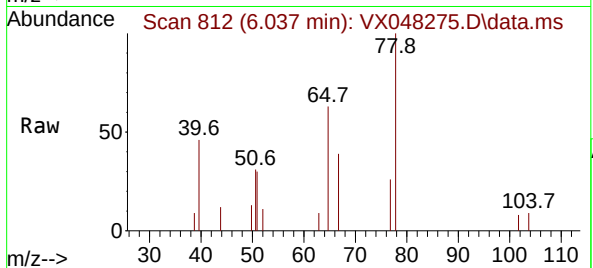
VOA 251015111-01DL

Tgt Ion: 78 Resp: 2585

Ion Ratio Lower Upper

78 100

77 26.3 19.3 28.9



#41

Methacrylonitrile

Concen: 13.823 ug/l

RT: 4.995 min Scan# 641

Delta R.T. 0.091 min

Lab File: VX048275.D

Acq: 21 Oct 2025 17:07

Tgt Ion: 41 Resp: 11721

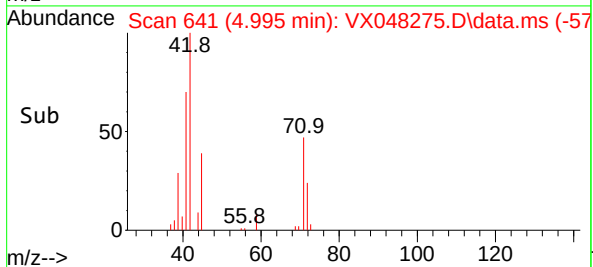
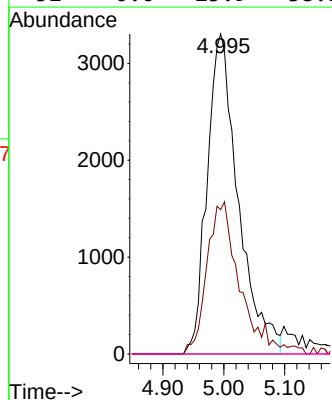
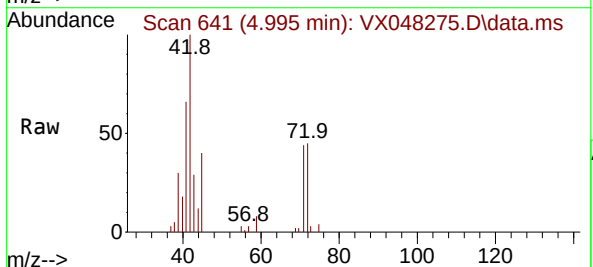
Ion Ratio Lower Upper

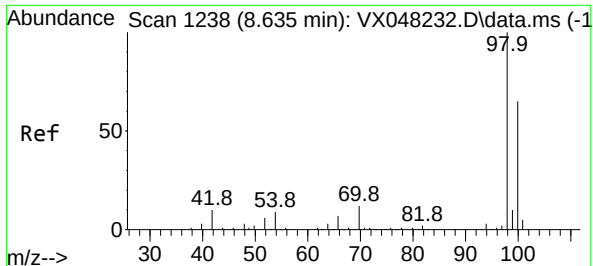
41 100

39 50.6 44.0 66.0

67 0.0 58.7 88.1#

52 0.0 25.9 38.9#

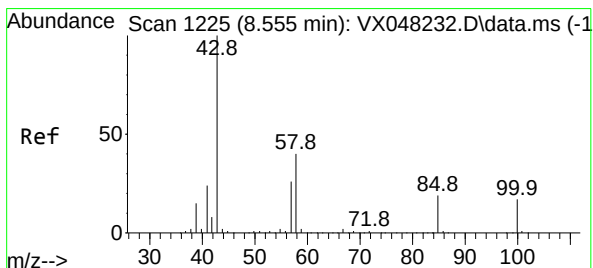
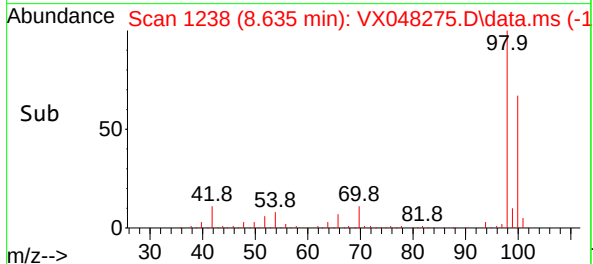
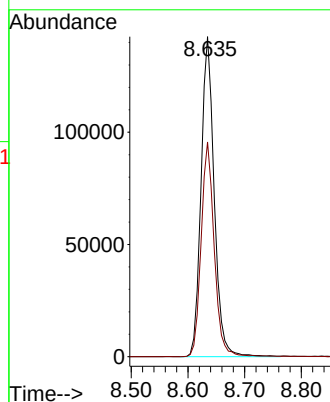
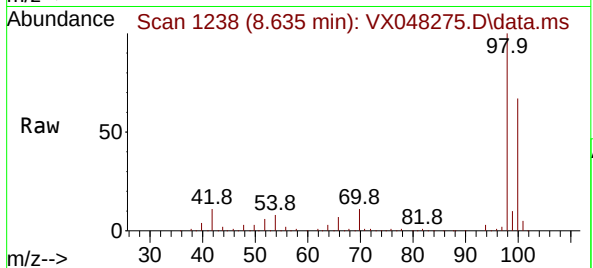




#50
Toluene-d8
Concen: 47.873 ug/l
RT: 8.635 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048275.D
Acq: 21 Oct 2025 17:07

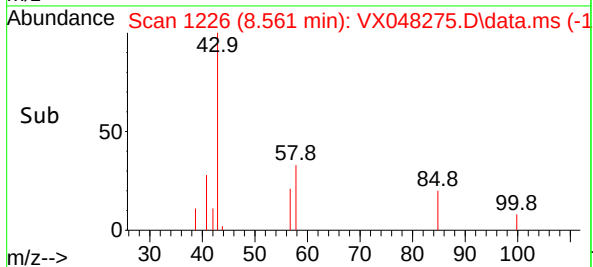
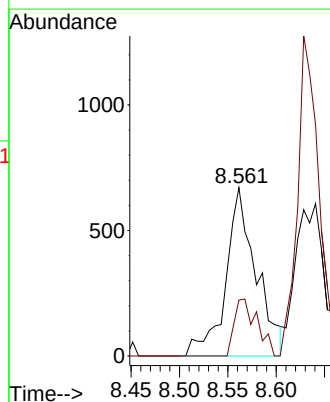
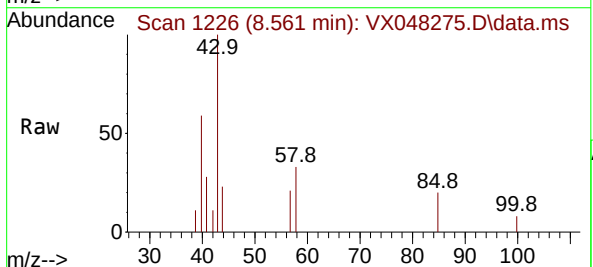
Instrument :
MSVOA_X
ClientSampleId :
VOA 251015111-01DL

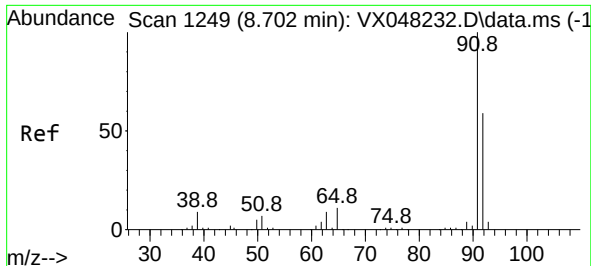
Tgt Ion: 98 Resp: 229978
Ion Ratio Lower Upper
98 100
100 66.6 53.0 79.4



#51
4-Methyl-2-Pentanone
Concen: 0.958 ug/l
RT: 8.561 min Scan# 1226
Delta R.T. 0.006 min
Lab File: VX048275.D
Acq: 21 Oct 2025 17:07

Tgt Ion: 43 Resp: 1465
Ion Ratio Lower Upper
43 100
58 25.3 29.5 44.3#

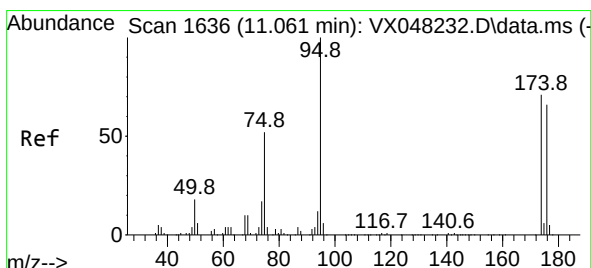
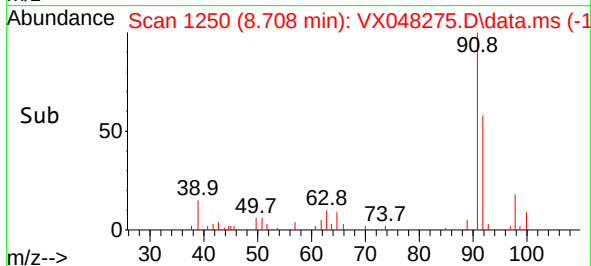
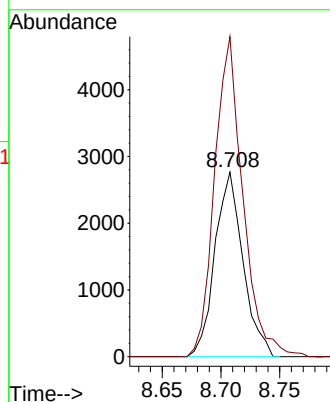
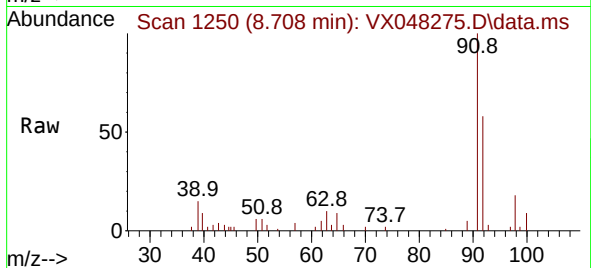




#52
Toluene
Concen: 1.278 ug/l
RT: 8.708 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX048275.D
Acq: 21 Oct 2025 17:07

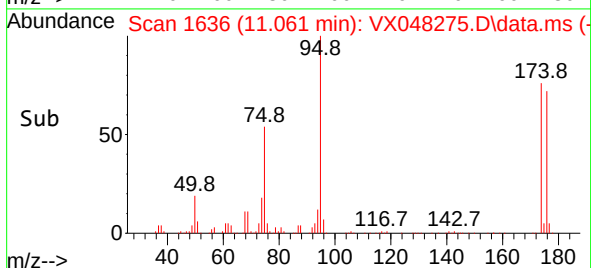
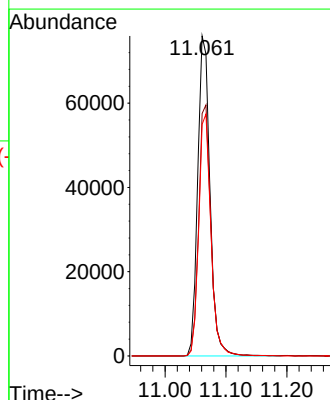
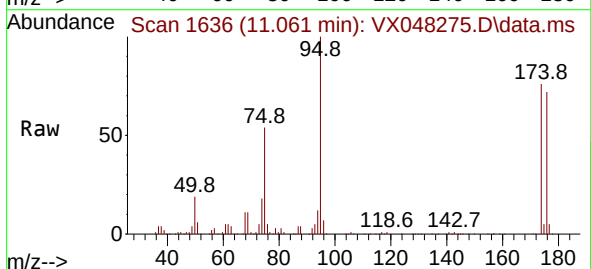
Instrument :
MSVOA_X
ClientSampleId :
VOA 251015111-01DL

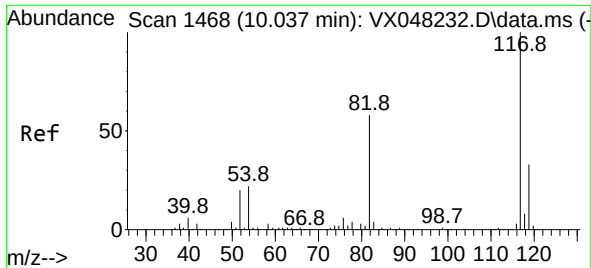
Tgt Ion: 92 Resp: 4593
Ion Ratio Lower Upper
92 100
91 175.0 136.1 204.1



#62
4-Bromofluorobenzene
Concen: 57.917 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048275.D
Acq: 21 Oct 2025 17:07

Tgt Ion: 95 Resp: 105847
Ion Ratio Lower Upper
95 100
174 78.0 0.0 147.8
176 75.4 0.0 142.8

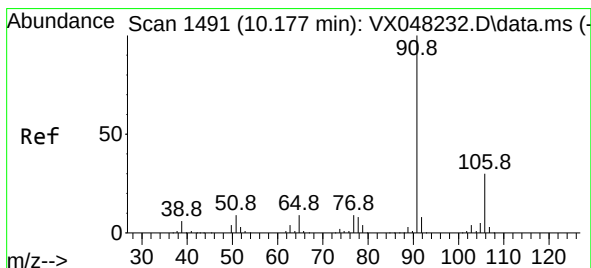
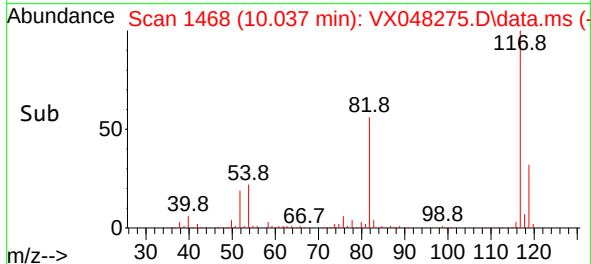
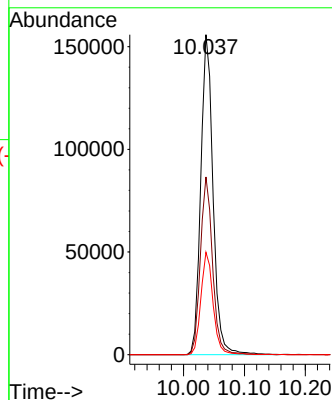
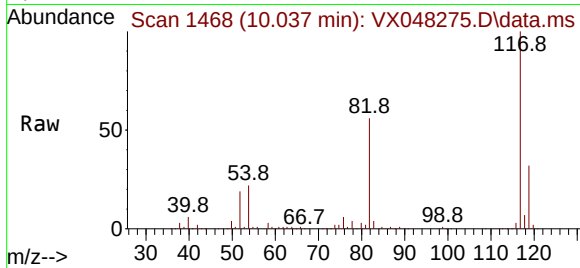




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048275.D
Acq: 21 Oct 2025 17:07

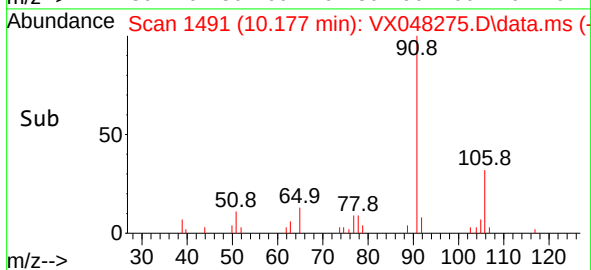
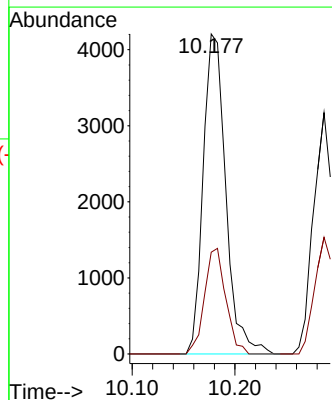
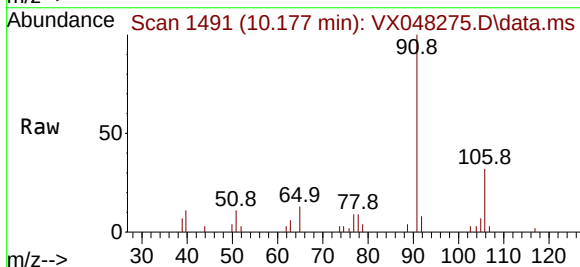
Instrument :
MSVOA_X
ClientSampleId :
VOA 251015111-01DL

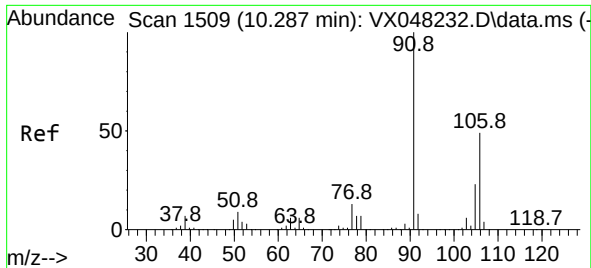
Tgt Ion:117 Resp: 218533
Ion Ratio Lower Upper
117 100
82 55.6 46.5 69.7
119 32.0 25.9 38.9



#67
Ethyl Benzene
Concen: 0.771 ug/l
RT: 10.177 min Scan# 1491
Delta R.T. -0.000 min
Lab File: VX048275.D
Acq: 21 Oct 2025 17:07

Tgt Ion: 91 Resp: 6450
Ion Ratio Lower Upper
91 100
106 31.8 23.8 35.6

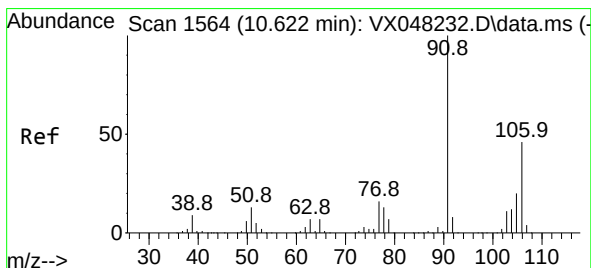
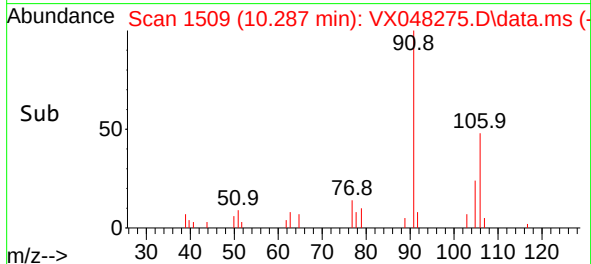
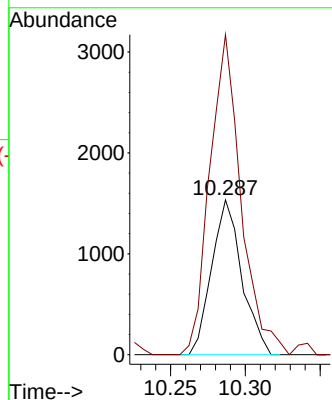
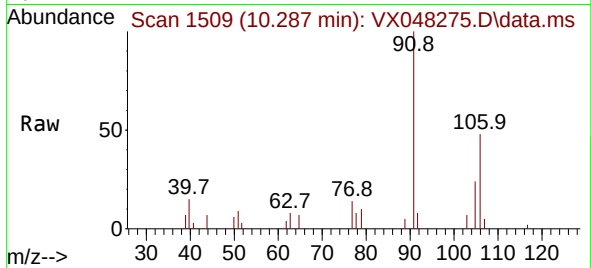




#68
m/p-Xylenes
Concen: 0.693 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX048275.D
Acq: 21 Oct 2025 17:07

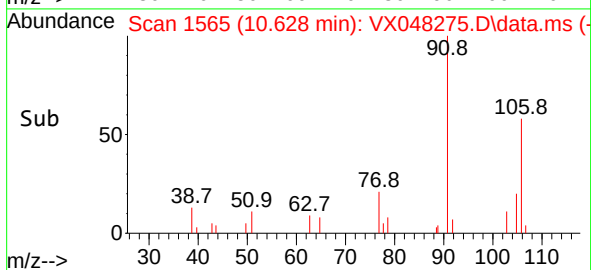
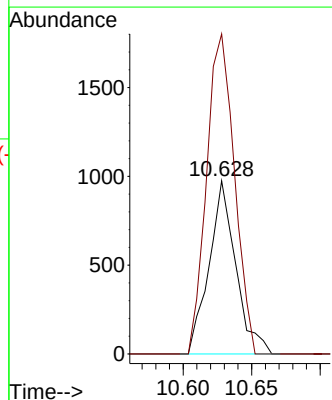
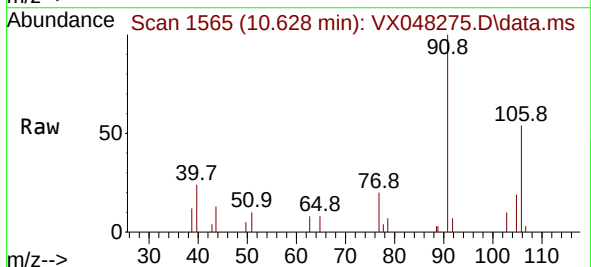
Instrument :
MSVOA_X
ClientSampleId :
VOA 251015111-01DL

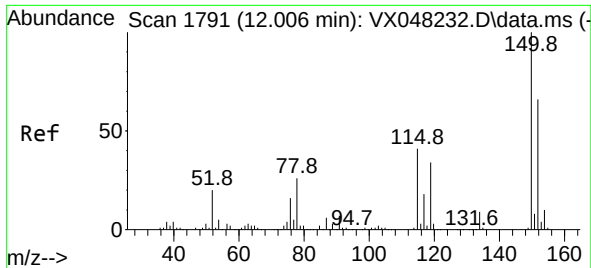
Tgt Ion:106 Resp: 2155
Ion Ratio Lower Upper
106 100
91 213.7 167.9 251.9



#69
o-Xylene
Concen: 0.440 ug/l
RT: 10.628 min Scan# 1565
Delta R.T. 0.006 min
Lab File: VX048275.D
Acq: 21 Oct 2025 17:07

Tgt Ion:106 Resp: 1321
Ion Ratio Lower Upper
106 100
91 192.9 111.3 333.9

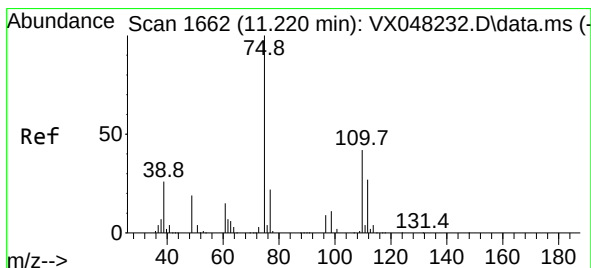
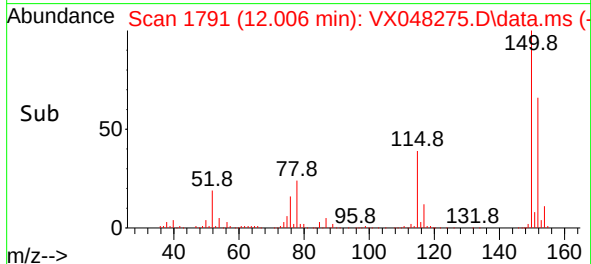
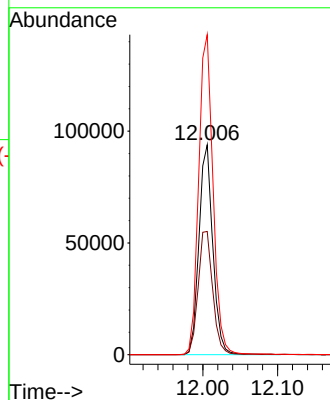
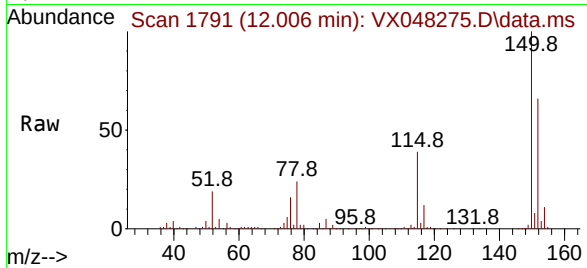




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.006 min Scan# 1
 Delta R.T. -0.000 min
 Lab File: VX048275.D
 Acq: 21 Oct 2025 17:07

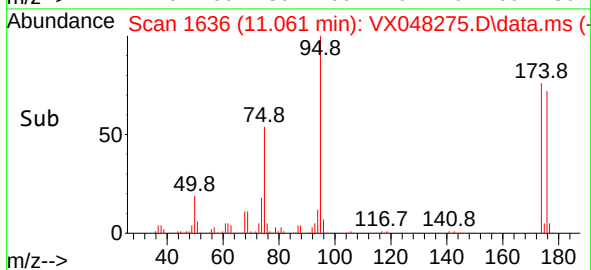
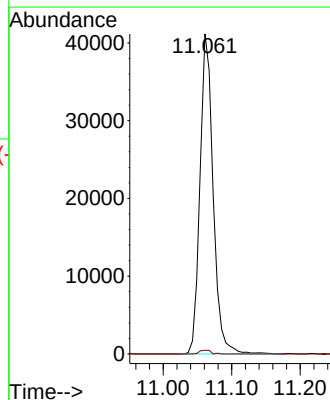
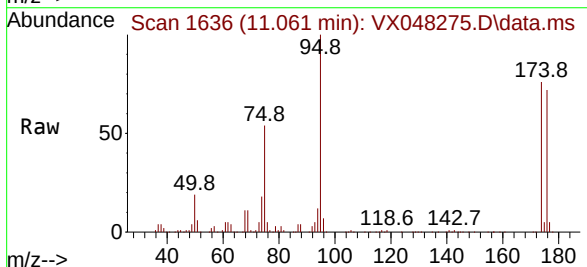
Instrument :
 MSVOA_X
 ClientSampleId :
 VOA 251015111-01DL

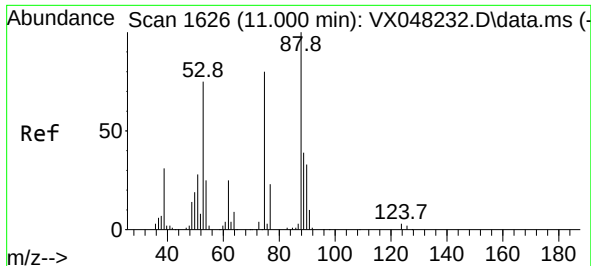
Tgt Ion:152 Resp: 120634
 Ion Ratio Lower Upper
 152 100
 115 62.1 43.1 129.4
 150 157.6 0.0 353.0



#76
 1,2,3-Trichloropropane
 Concen: 28.196 ug/l
 RT: 11.061 min Scan# 1636
 Delta R.T. -0.159 min
 Lab File: VX048275.D
 Acq: 21 Oct 2025 17:07

Tgt Ion: 75 Resp: 55159
 Ion Ratio Lower Upper
 75 100
 77 1.0 22.4 67.2#

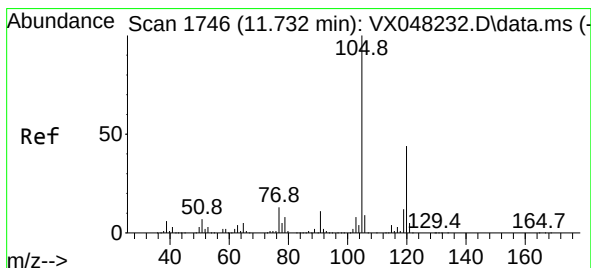
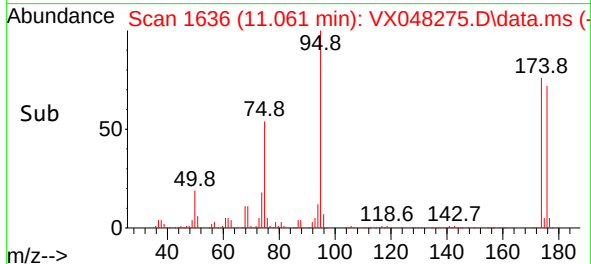
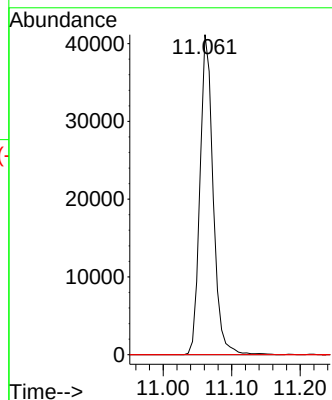
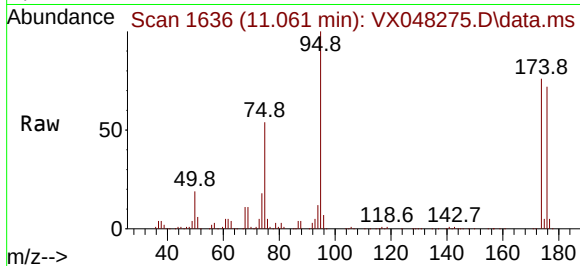




#81
trans-1,4-Dichloro-2-butene
Concen: 68.599 ug/l
RT: 11.061 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX048275.D
Acq: 21 Oct 2025 17:07

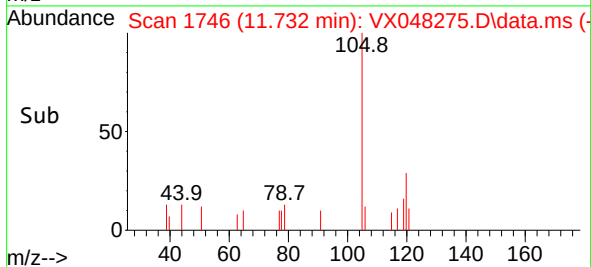
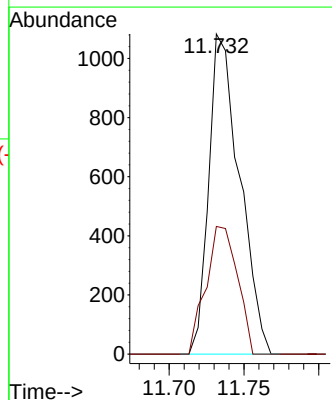
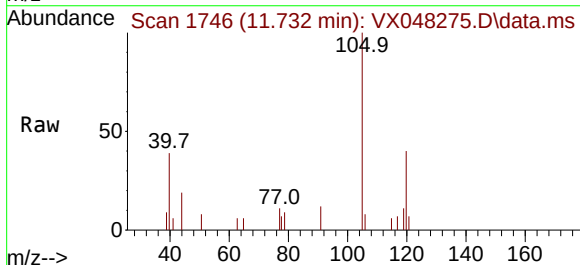
Instrument :
MSVOA_X
ClientSampleId :
VOA 251015111-01DL

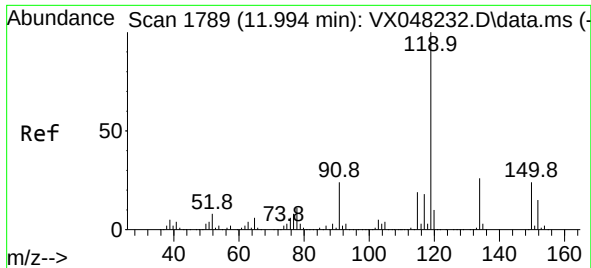
Tgt Ion: 75 Resp: 55159
Ion Ratio Lower Upper
75 100
53 0.0 79.5 119.3#
89 0.0 36.8 55.2#



#84
1,2,4-Trimethylbenzene
Concen: 0.214 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX048275.D
Acq: 21 Oct 2025 17:07

Tgt Ion: 105 Resp: 1554
Ion Ratio Lower Upper
105 100
120 40.7 22.1 66.5

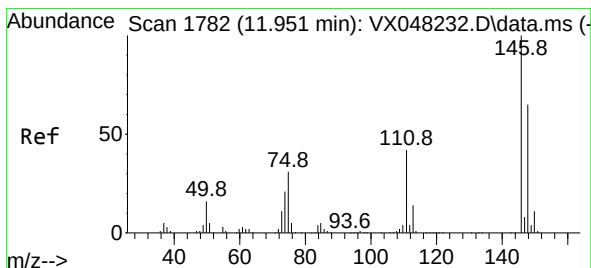
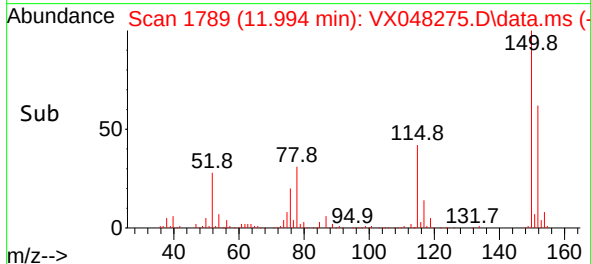
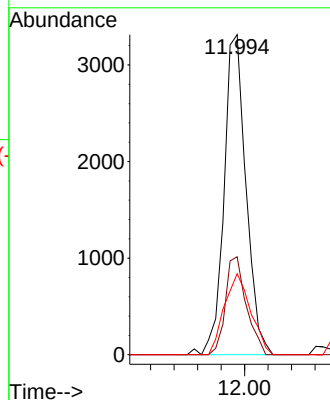
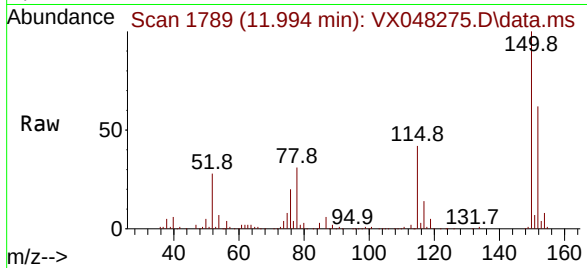




#86
 p-Isopropyltoluene
 Concen: 0.554 ug/l
 RT: 11.994 min Scan# 1794
 Delta R.T. 0.006 min
 Lab File: VX048275.D
 Acq: 21 Oct 2025 17:07

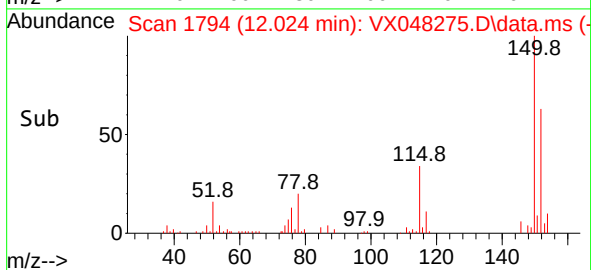
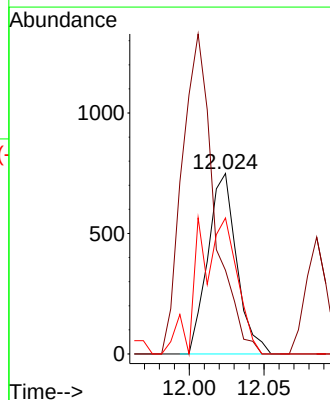
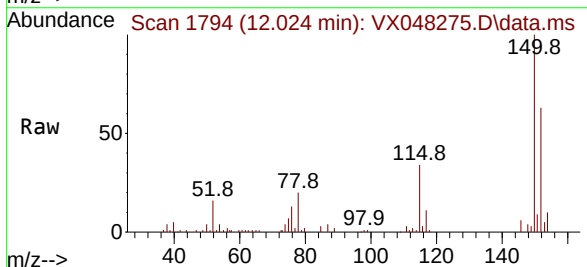
Instrument :
 MSVOA_X
 ClientSampleId :
 VOA 251015111-01DL

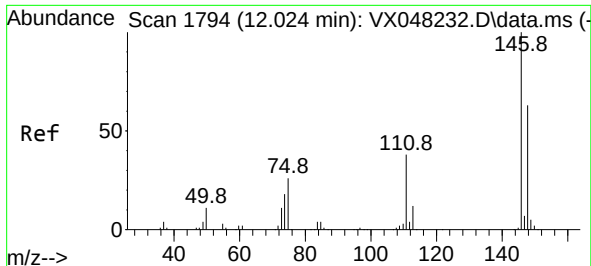
Tgt Ion:	119	Resp:	4314
Ion	Ratio	Lower	Upper
119	100		
134	29.1	13.0	39.0
91	30.3	12.1	36.3



#87
 1,3-Dichlorobenzene
 Concen: 0.241 ug/l
 RT: 12.024 min Scan# 1794
 Delta R.T. 0.073 min
 Lab File: VX048275.D
 Acq: 21 Oct 2025 17:07

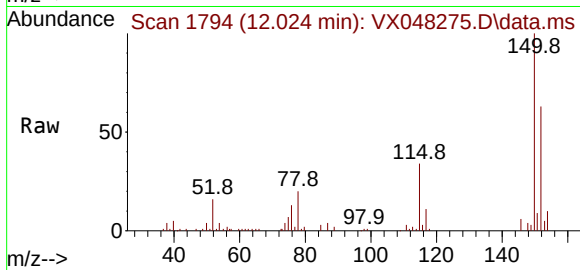
Tgt Ion:	146	Resp:	1005
Ion	Ratio	Lower	Upper
146	100		
111	197.6	20.4	61.2#
148	100.8	31.9	95.9#



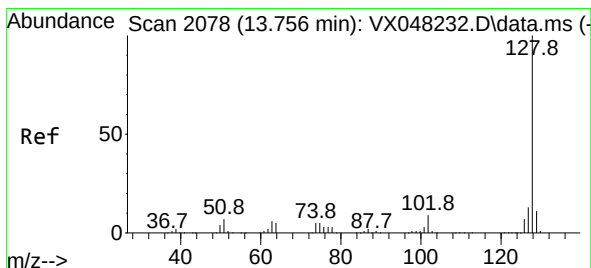
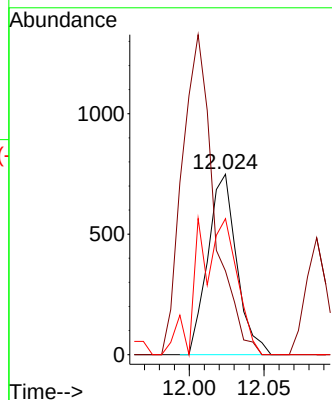
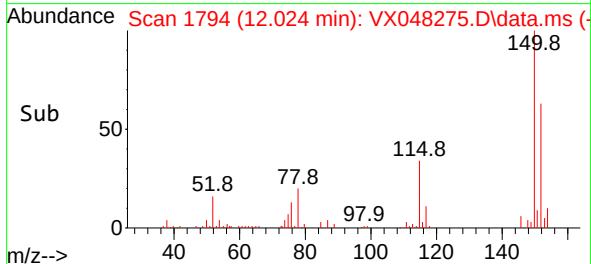


#88
1,4-Dichlorobenzene
Concen: 0.233 ug/l
RT: 12.024 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048275.D
Acq: 21 Oct 2025 17:07

Instrument :
MSVOA_X
ClientSampleId :
VOA 251015111-01DL



Tgt Ion:146 Resp: 1005
Ion Ratio Lower Upper
146 100
111 197.6 20.1 60.2#
148 100.8 31.8 95.3#



#95
Naphthalene
Concen: 1.343 ug/l
RT: 13.762 min Scan# 2079
Delta R.T. 0.006 min
Lab File: VX048275.D
Acq: 21 Oct 2025 17:07

Tgt Ion:128 Resp: 9408
Ion Ratio Lower Upper
128 100
127 13.7 10.2 15.4
129 10.3 8.6 12.8

