

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102725\
 Data File : VX048379.D
 Acq On : 27 Oct 2025 17:47
 Operator : JC/MD
 Sample : Q3447-08
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 P001-TW4-251023-01

Quant Time: Oct 28 01:58:00 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

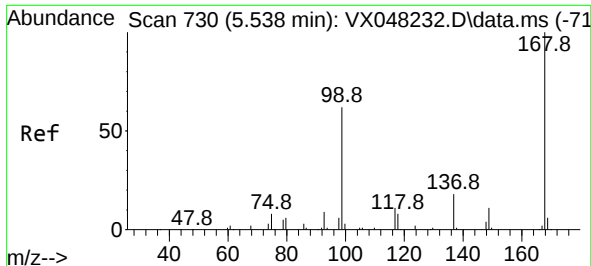
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.538	168	121486	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	236810	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	246825	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	128536	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	92691	54.418	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 108.840%			
35) Dibromofluoromethane	5.379	113	62397	38.596	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 77.200%			
50) Toluene-d8	8.635	98	267256	47.163	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 94.320%			
62) 4-Bromofluorobenzene	11.061	95	118046	54.758	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 109.520%			
Target Compounds						Qvalue
10) Methyl Iodide	2.459	142	1621	0.984	ug/l	96
11) Tert butyl alcohol	2.703	59	48	0.284	ug/l #	72
16) Acetone	2.373	43	26248	44.919	ug/l	98
17) Carbon Disulfide	2.520	76	125382	31.192	ug/l	99
18) Methyl Acetate	2.703	43	2047	1.677	ug/l	91
20) Methylene Chloride	2.788	84	10430	7.325	ug/l	95
25) 2-Butanone	4.568	43	2723	3.682	ug/l	98
29) Tetrahydrofuran	5.007	42	322	0.727	ug/l #	38
31) Cyclohexane	5.544	56	3036	1.436	ug/l #	14
36) 1,1-Dichloropropene	5.538	75	10048	4.373	ug/l #	52
37) Ethyl Acetate	4.708	43	498	0.261	ug/l #	70
38) Carbon Tetrachloride	5.544	117	12647	4.461	ug/l #	16
40) Benzene	6.037	78	1707	0.256	ug/l	94
43) Isopropyl Acetate	6.324	43	10658	3.407	ug/l	96
48) Methyl methacrylate	7.781	41	42749	27.079	ug/l #	46
51) 4-Methyl-2-Pentanone	8.531	43	45176	25.045	ug/l #	52
52) Toluene	8.708	92	23620	5.573	ug/l	98
54) cis-1,3-Dichloropropene	8.531	75	19430	7.004	ug/l #	64
57) 1,3-Dichloropropane	9.470	76	1655	0.615	ug/l #	43
59) 2-Hexanone	9.470	43	23344	18.560	ug/l #	52
67) Ethyl Benzene	10.177	91	12668	1.340	ug/l	91
68) m/p-Xylenes	10.281	106	1294	0.368	ug/l	85
76) 1,2,3-Trichloropropane	11.061	75	62862	30.158	ug/l #	34
81) trans-1,4-Dichloro-2-b...	11.061	75	62862	73.372	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.738	105	5384	0.694	ug/l #	38
95) Naphthalene	13.756	128	8947	1.199	ug/l	98

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

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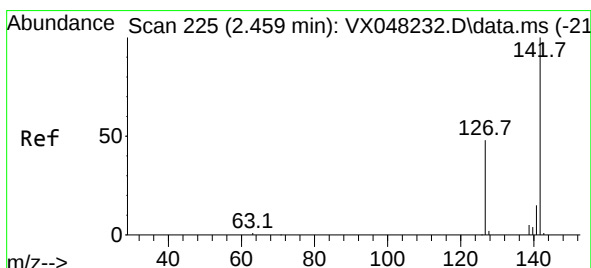
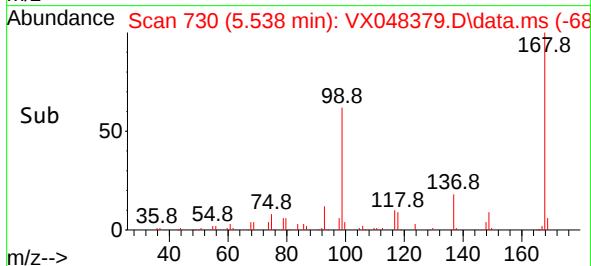
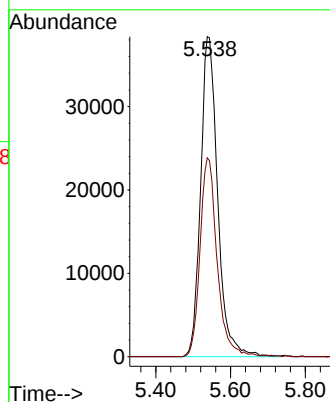
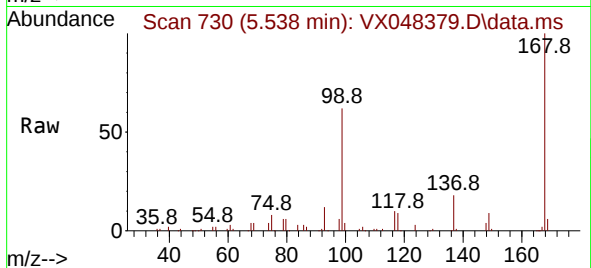




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX048379.D
Acq: 27 Oct 2025 17:47

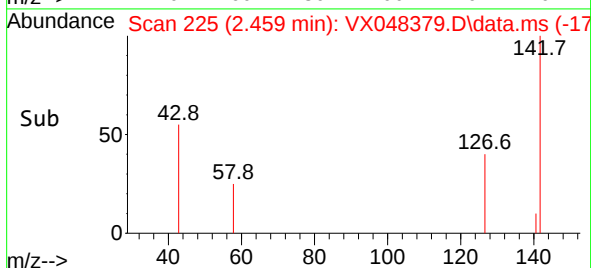
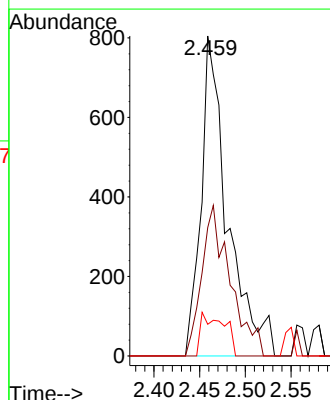
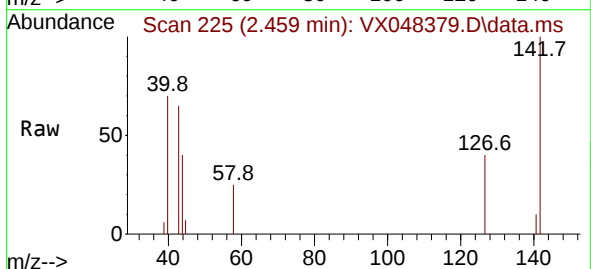
Instrument :
MSVOA_X
ClientSampleId :
P001-TW4-251023-01

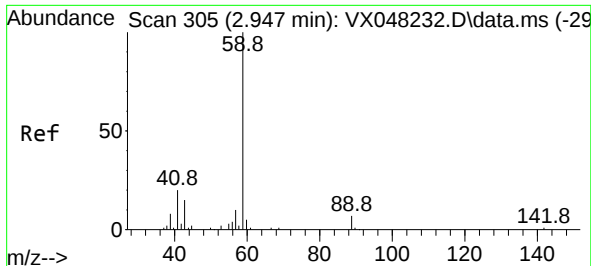
Tgt Ion:168 Resp: 121486
Ion Ratio Lower Upper
168 100
99 62.2 46.4 69.6



#10
Methyl Iodide
Concen: 0.984 ug/l
RT: 2.459 min Scan# 225
Delta R.T. -0.000 min
Lab File: VX048379.D
Acq: 27 Oct 2025 17:47

Tgt Ion:142 Resp: 1621
Ion Ratio Lower Upper
142 100
127 50.6 38.5 57.7
141 12.0 11.6 17.4

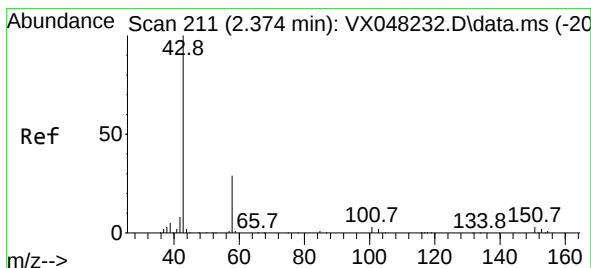
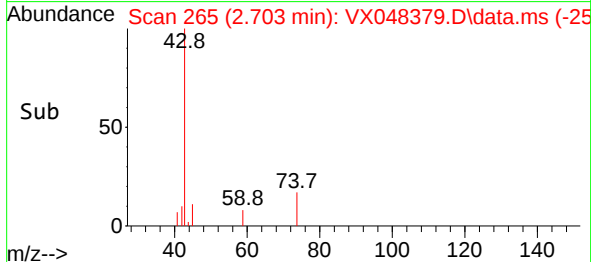
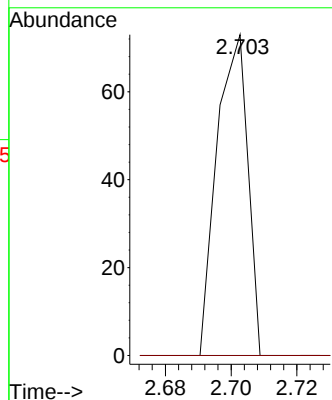
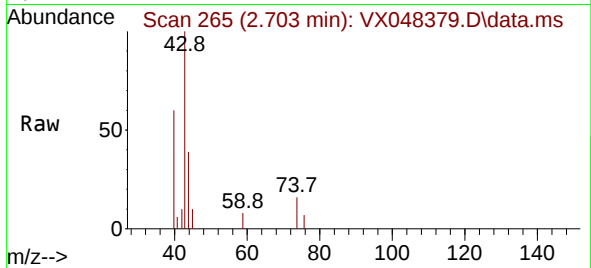




#11
Tert butyl alcohol
Concen: 0.284 ug/l
RT: 2.703 min Scan# 211
Delta R.T. -0.238 min
Lab File: VX048379.D
Acq: 27 Oct 2025 17:47

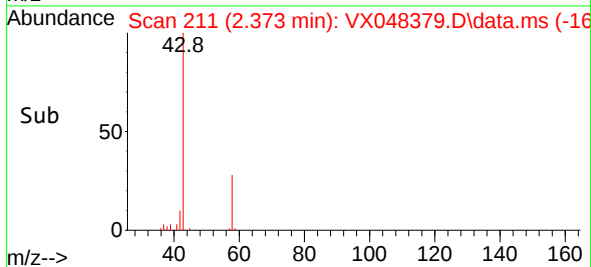
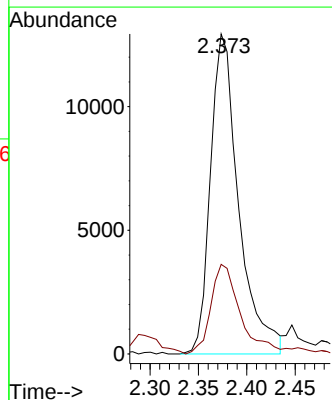
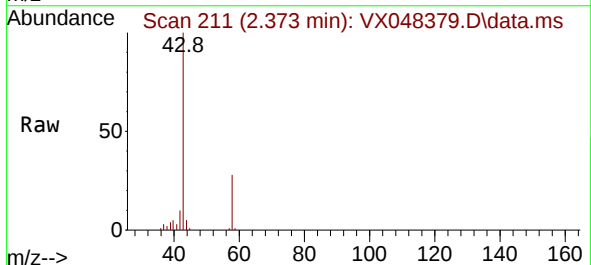
Instrument :
MSVOA_X
ClientSampleId :
P001-TW4-251023-01

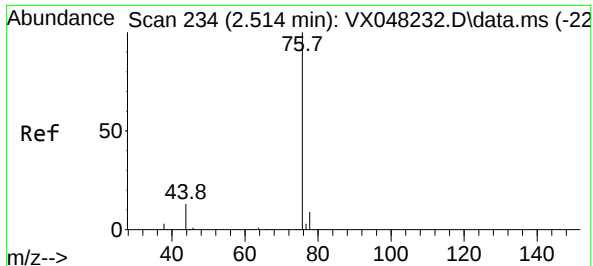
Tgt Ion: 59 Resp: 48
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 44.919 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX048379.D
Acq: 27 Oct 2025 17:47

Tgt Ion: 43 Resp: 26248
Ion Ratio Lower Upper
43 100
58 28.2 23.4 35.2

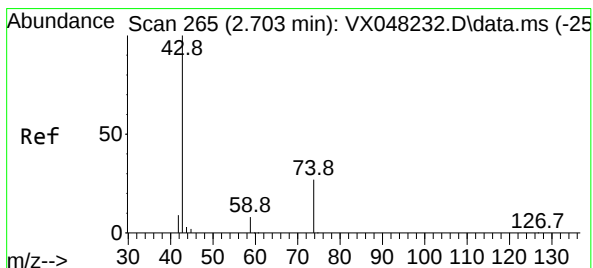
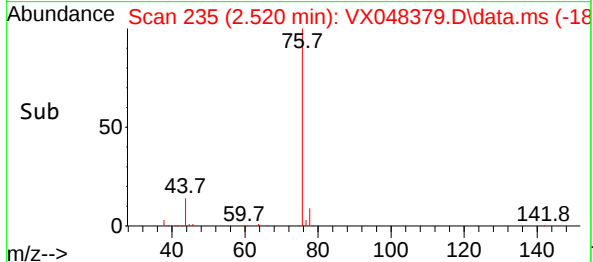
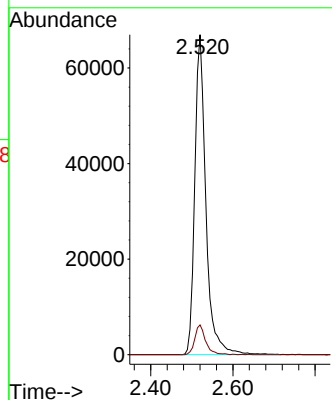
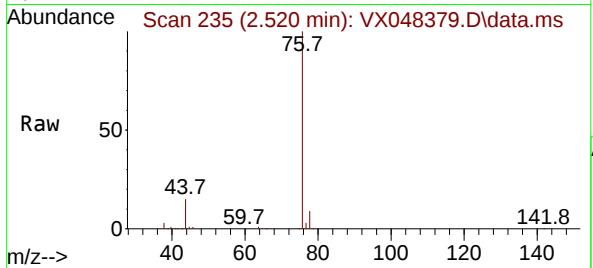




#17
Carbon Disulfide
Concen: 31.192 ug/l
RT: 2.520 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX048379.D
Acq: 27 Oct 2025 17:47

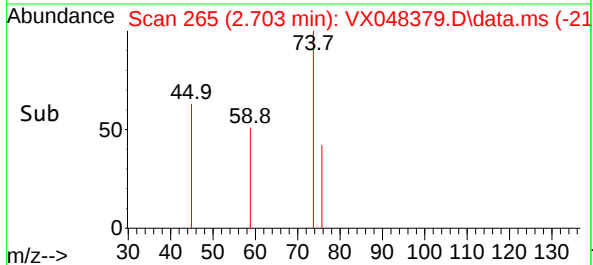
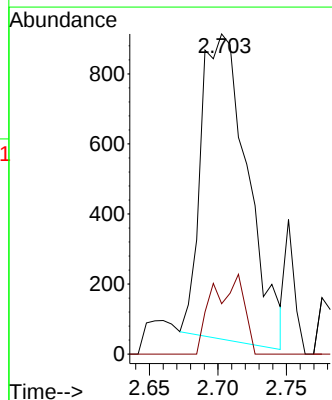
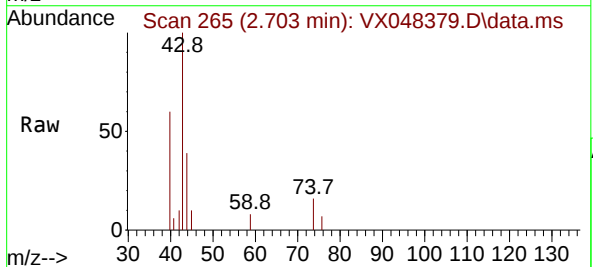
Instrument :
MSVOA_X
ClientSampleId :
P001-TW4-251023-01

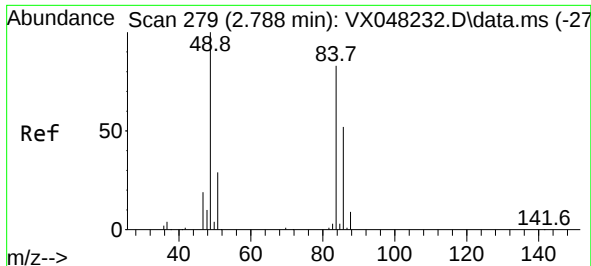
Tgt Ion: 76 Resp: 125382
Ion Ratio Lower Upper
76 100
78 9.4 7.1 10.7



#18
Methyl Acetate
Concen: 1.677 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.006 min
Lab File: VX048379.D
Acq: 27 Oct 2025 17:47

Tgt Ion: 43 Resp: 2047
Ion Ratio Lower Upper
43 100
74 17.6 17.5 26.3

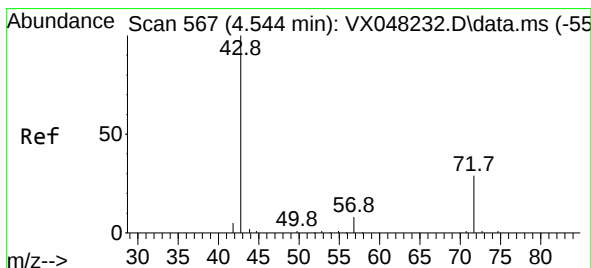
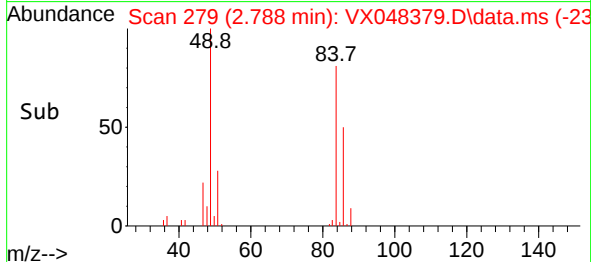
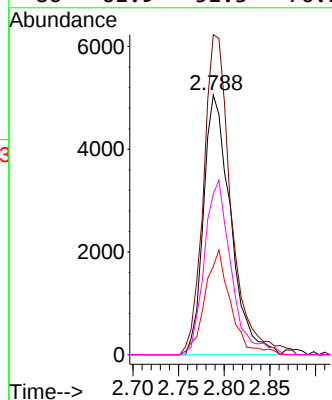
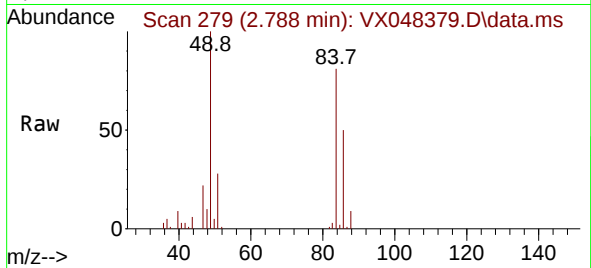




#20
Methylene Chloride
Concen: 7.325 ug/l
RT: 2.788 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX048379.D
Acq: 27 Oct 2025 17:47

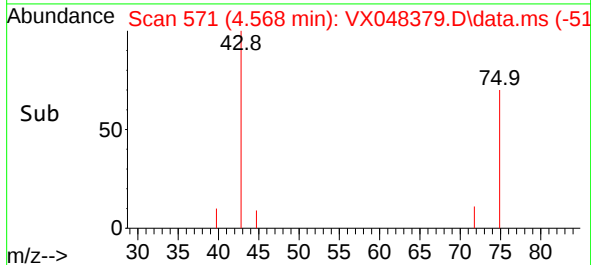
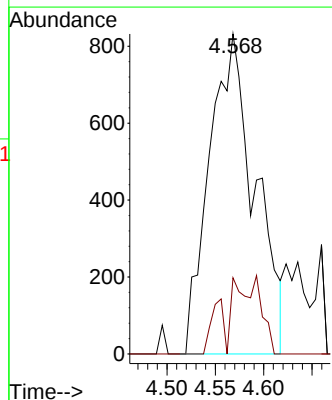
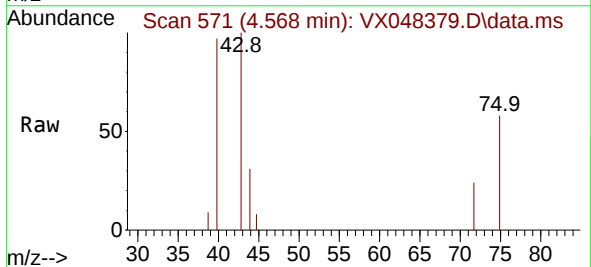
Instrument :
MSVOA_X
ClientSampleId :
P001-TW4-251023-01

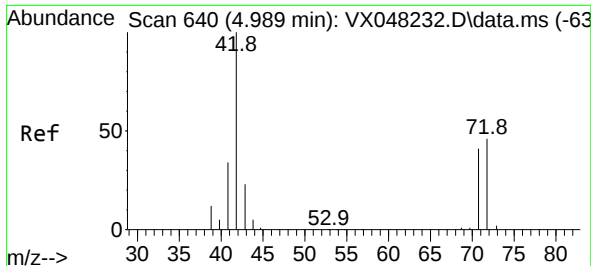
Tgt Ion:	84	Resp:	10430
Ion	Ratio	Lower	Upper
84	100		
49	123.3	104.1	156.1
51	34.1	31.3	46.9
86	61.9	51.3	76.9



#25
2-Butanone
Concen: 3.682 ug/l
RT: 4.568 min Scan# 571
Delta R.T. 0.030 min
Lab File: VX048379.D
Acq: 27 Oct 2025 17:47

Tgt Ion:	43	Resp:	2723
Ion	Ratio	Lower	Upper
43	100		
72	23.8	19.9	29.9





#29

Tetrahydrofuran

Concen: 0.727 ug/l

RT: 5.007 min Scan# 64

Delta R.T. 0.018 min

Lab File: VX048379.D

Acq: 27 Oct 2025 17:47

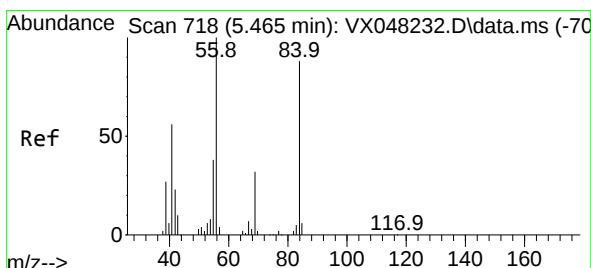
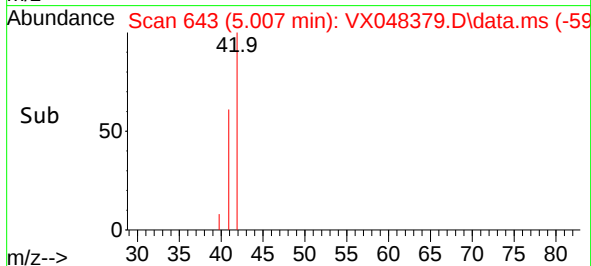
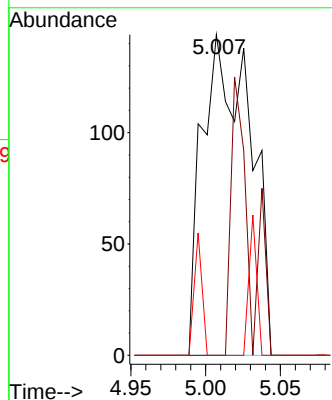
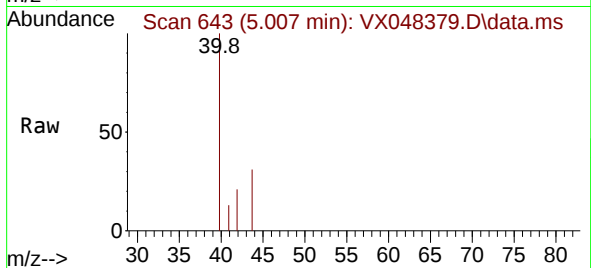
Instrument :

MSVOA_X

ClientSampleId :

P001-TW4-251023-01

Tgt Ion: 42	Resp: 322
Ion Ratio	Lower Upper
42	100
72	0.0 35.3 52.9#
71	6.2 32.2 48.4#



#31

Cyclohexane

Concen: 1.436 ug/l

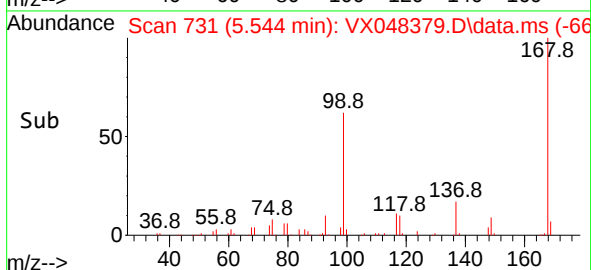
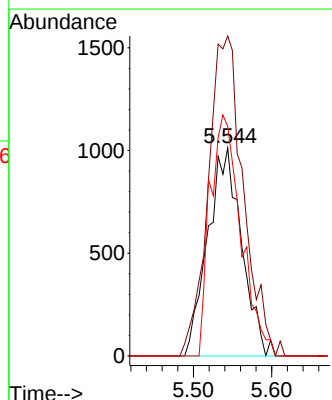
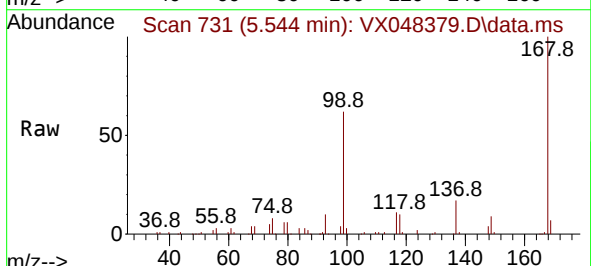
RT: 5.544 min Scan# 731

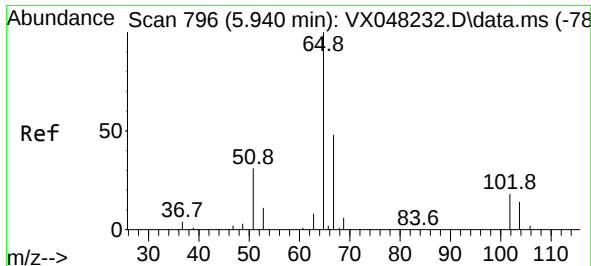
Delta R.T. 0.085 min

Lab File: VX048379.D

Acq: 27 Oct 2025 17:47

Tgt Ion: 56	Resp: 3036
Ion Ratio	Lower Upper
56	100
69	153.8 23.0 34.6#
84	110.4 64.6 97.0#

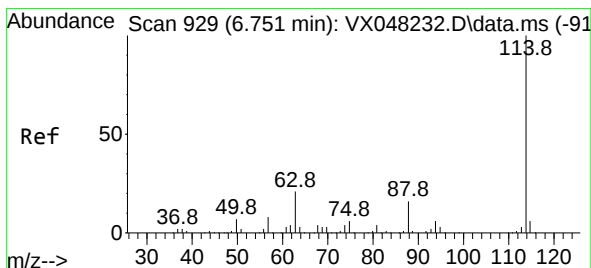
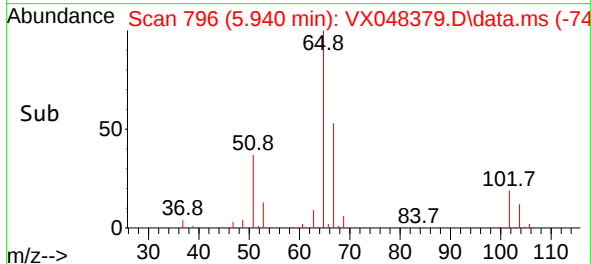
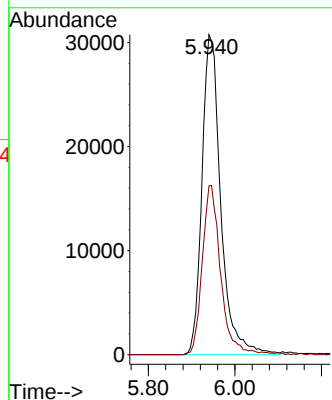
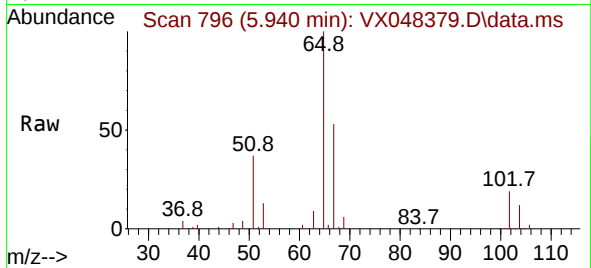




#33
1,2-Dichloroethane-d4
Concen: 54.418 ug/l
RT: 5.940 min Scan# 796
Delta R.T. -0.000 min
Lab File: VX048379.D
Acq: 27 Oct 2025 17:47

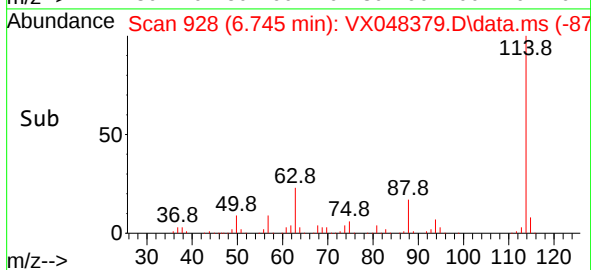
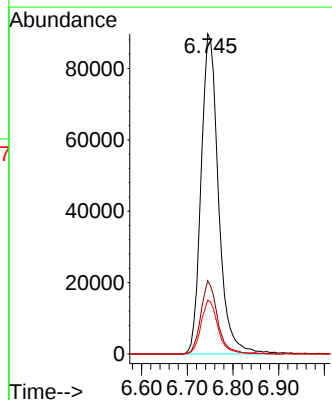
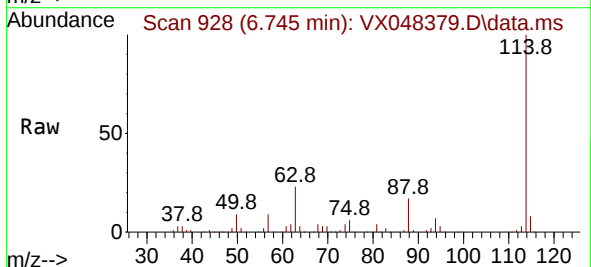
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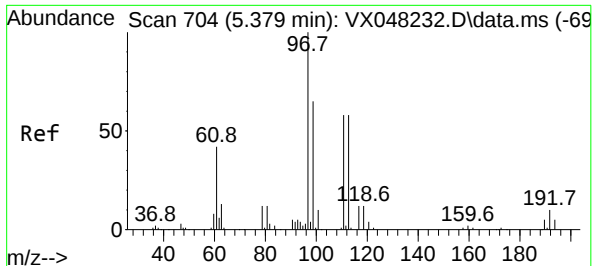
Tgt Ion: 65 Resp: 92691
Ion Ratio Lower Upper
65 100
67 51.2 0.0 105.0



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX048379.D
Acq: 27 Oct 2025 17:47

Tgt Ion: 114 Resp: 236810
Ion Ratio Lower Upper
114 100
63 22.9 0.0 43.2
88 16.8 0.0 33.6

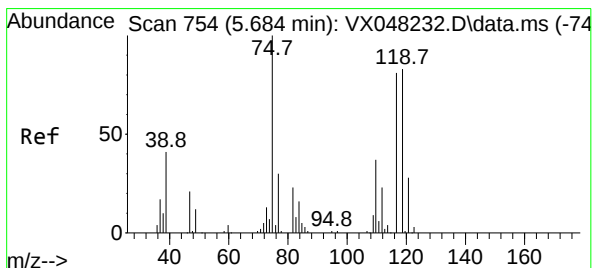
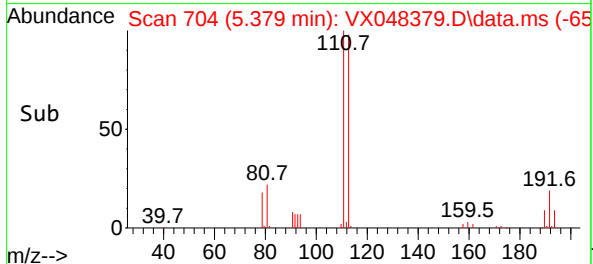
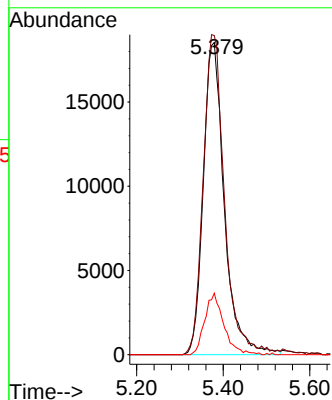
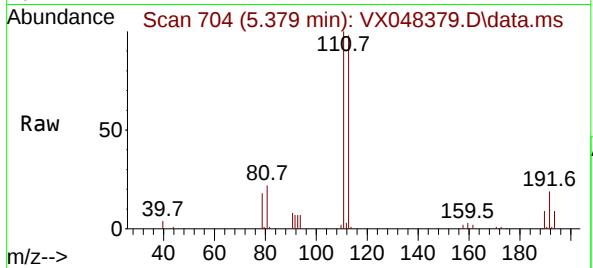




#35
Dibromofluoromethane
Concen: 38.596 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX048379.D
Acq: 27 Oct 2025 17:47

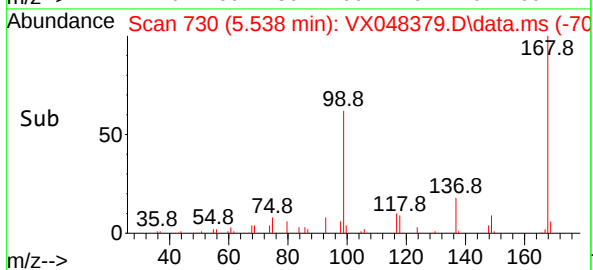
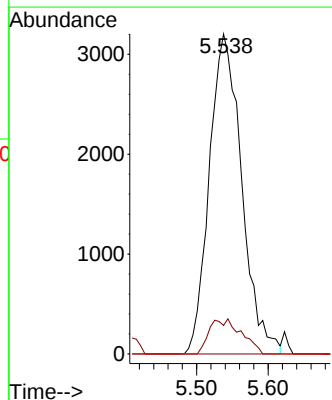
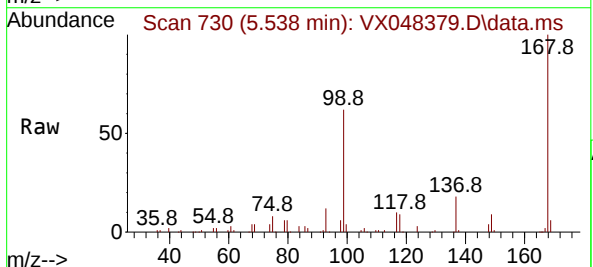
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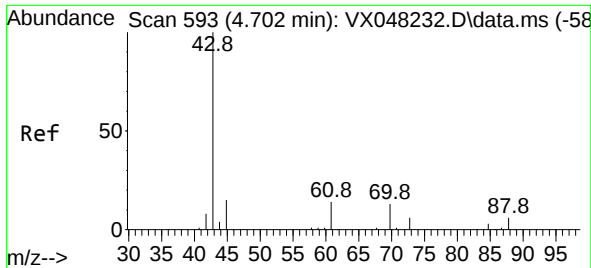
Tgt Ion:113 Resp: 62397
Ion Ratio Lower Upper
113 100
111 102.9 82.2 123.4
192 17.9 15.1 22.7



#36
1,1-Dichloropropene
Concen: 4.373 ug/l
RT: 5.538 min Scan# 730
Delta R.T. -0.146 min
Lab File: VX048379.D
Acq: 27 Oct 2025 17:47

Tgt Ion: 75 Resp: 10048
Ion Ratio Lower Upper
75 100
110 10.9 17.7 53.1#
77 0.0 24.3 36.5#

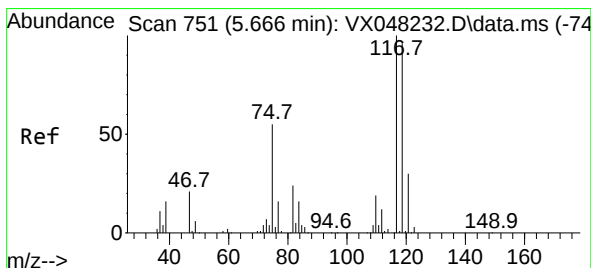
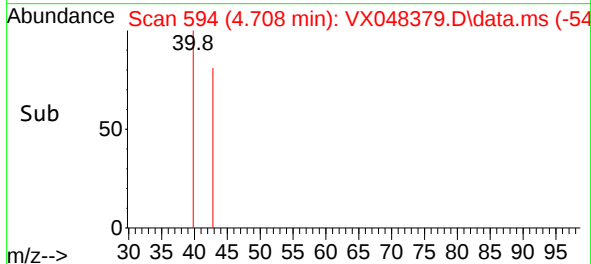
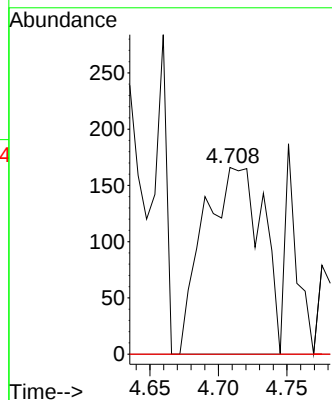
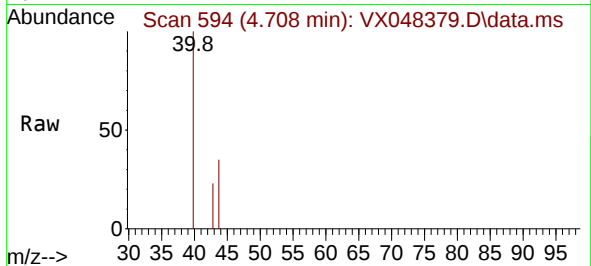




#37
Ethyl Acetate
Concen: 0.261 ug/l
RT: 4.708 min Scan# 594
Delta R.T. 0.012 min
Lab File: VX048379.D
Acq: 27 Oct 2025 17:47

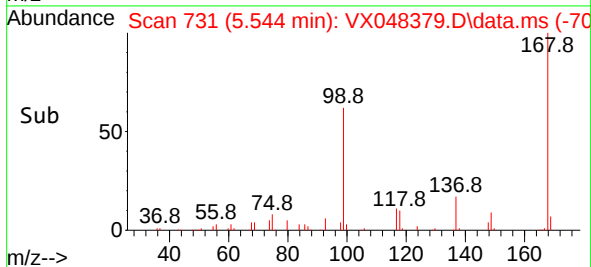
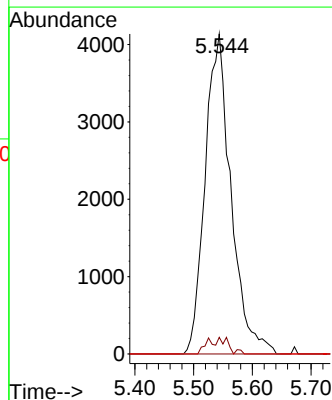
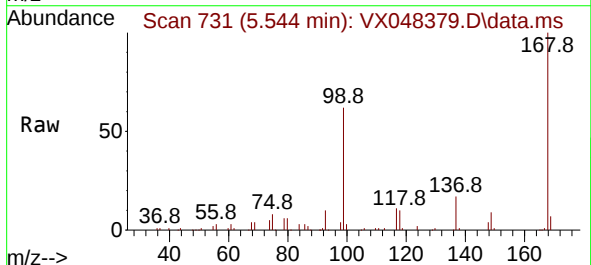
Instrument :
MSVOA_X
ClientSampleId :
P001-TW4-251023-01

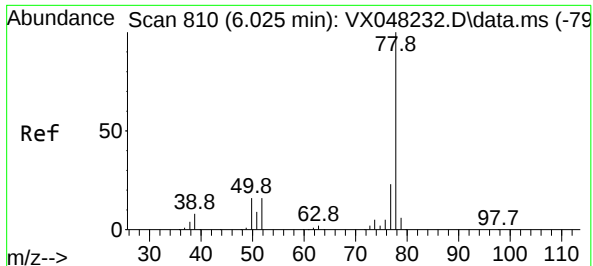
Tgt Ion:	43	Resp:	498
Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.6	15.8#
70	0.0	7.8	11.6#



#38
Carbon Tetrachloride
Concen: 4.461 ug/l
RT: 5.544 min Scan# 731
Delta R.T. -0.122 min
Lab File: VX048379.D
Acq: 27 Oct 2025 17:47

Tgt Ion:	117	Resp:	12647
Ion	Ratio	Lower	Upper
117	100		
119	5.2	77.2	115.8#
121	0.0	24.8	37.2#

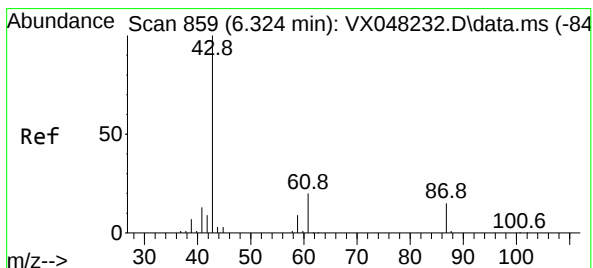
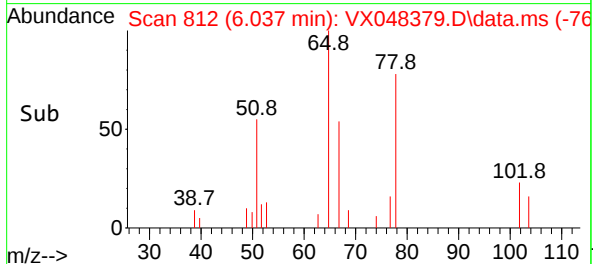
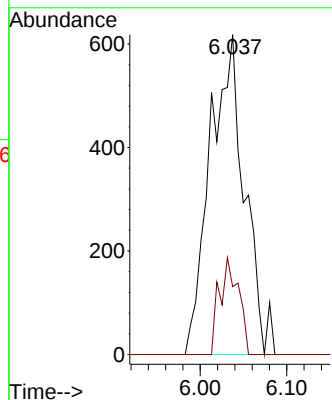
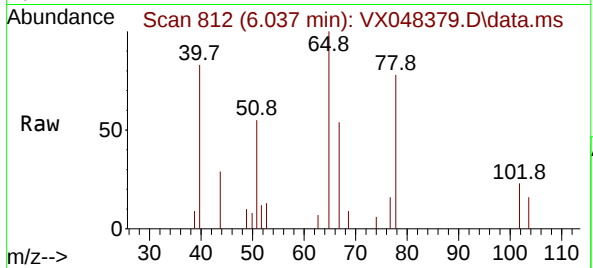




#40
Benzene
Concen: 0.256 ug/l
RT: 6.037 min Scan# 810
Delta R.T. 0.012 min
Lab File: VX048379.D
Acq: 27 Oct 2025 17:47

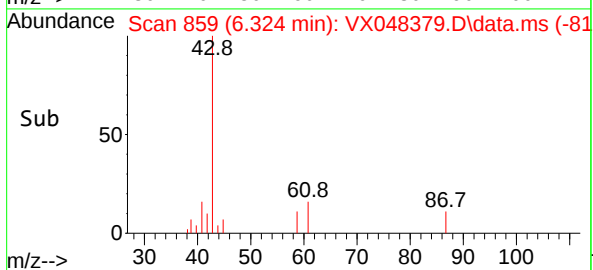
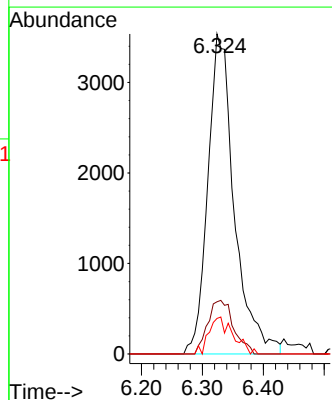
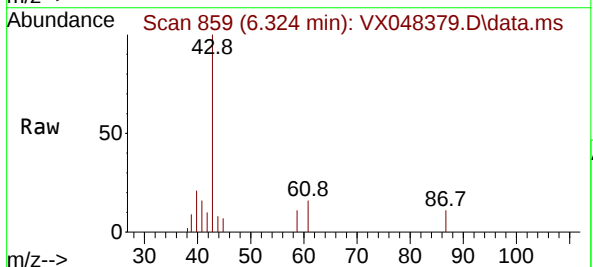
Instrument :
MSVOA_X
ClientSampleId :
P001-TW4-251023-01

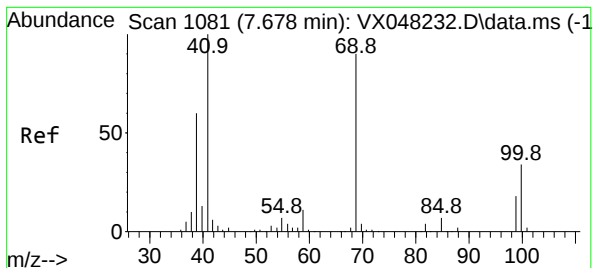
Tgt Ion: 78 Resp: 1707
Ion Ratio Lower Upper
78 100
77 21.2 19.3 28.9



#43
Isopropyl Acetate
Concen: 3.407 ug/l
RT: 6.324 min Scan# 859
Delta R.T. -0.000 min
Lab File: VX048379.D
Acq: 27 Oct 2025 17:47

Tgt Ion: 43 Resp: 10658
Ion Ratio Lower Upper
43 100
61 16.4 14.9 22.3
87 10.5 9.4 14.2





#48

Methyl methacrylate

Concen: 27.079 ug/l

RT: 7.781 min Scan# 1098

Delta R.T. 0.104 min

Lab File: VX048379.D

Acq: 27 Oct 2025 17:47

Instrument :

MSVOA_X

ClientSampleId :

P001-TW4-251023-01

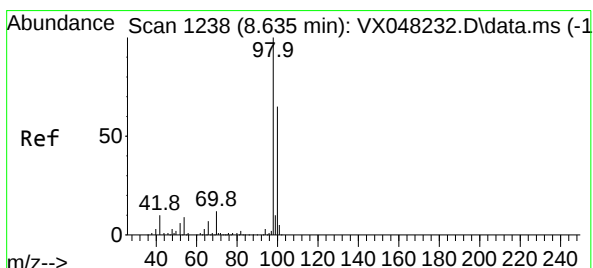
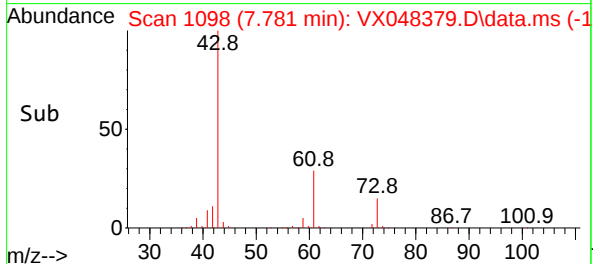
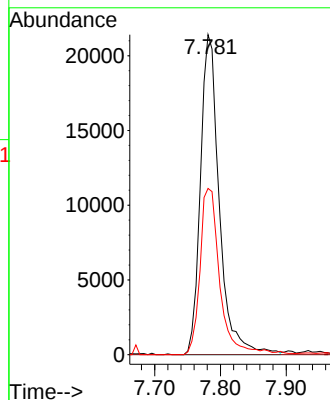
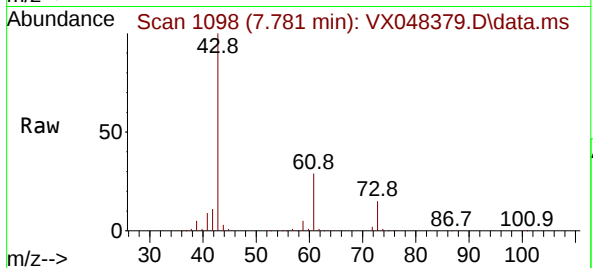
Tgt Ion: 41 Resp: 42749

Ion Ratio Lower Upper

41 100

69 0.0 63.4 95.0#

39 54.7 47.1 70.7



#50

Toluene-d8

Concen: 47.163 ug/l

RT: 8.635 min Scan# 1238

Delta R.T. -0.000 min

Lab File: VX048379.D

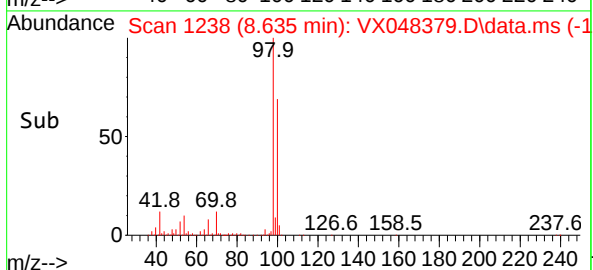
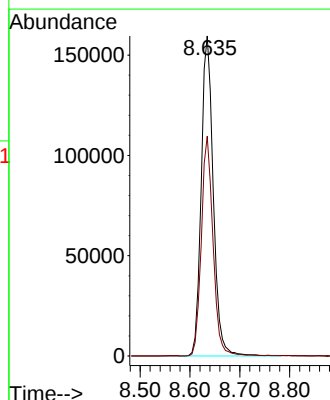
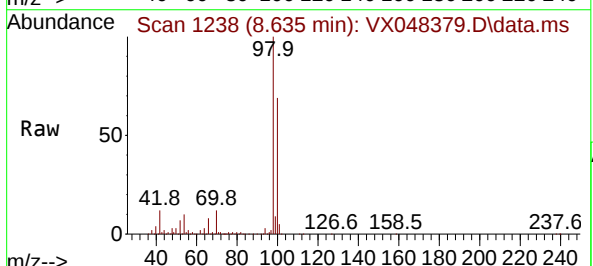
Acq: 27 Oct 2025 17:47

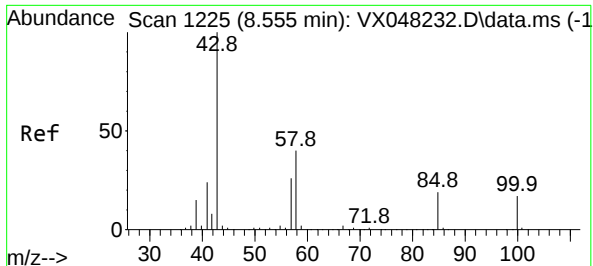
Tgt Ion: 98 Resp: 267256

Ion Ratio Lower Upper

98 100

100 66.8 53.0 79.4

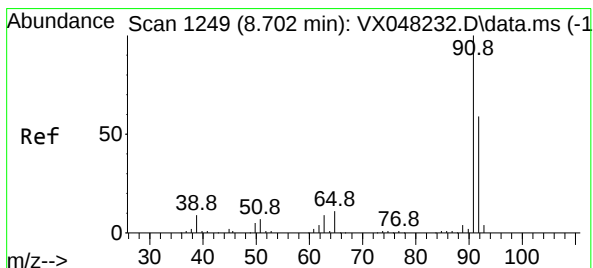
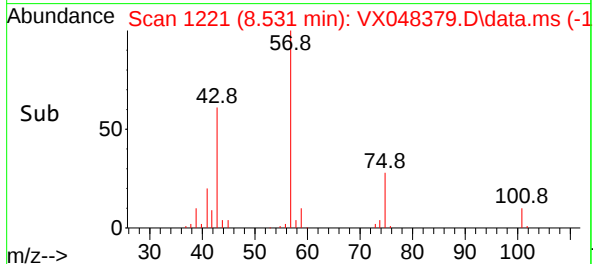
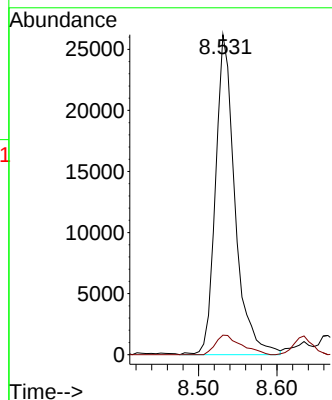
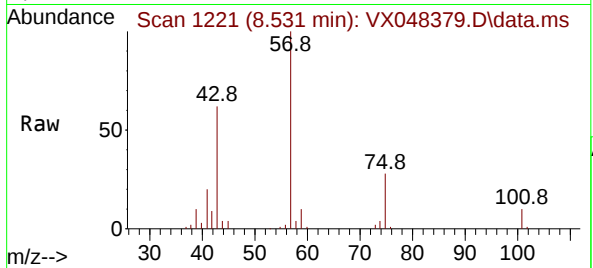




#51
4-Methyl-2-Pentanone
Concen: 25.045 ug/l
RT: 8.531 min Scan# 11
Delta R.T. -0.024 min
Lab File: VX048379.D
Acq: 27 Oct 2025 17:47

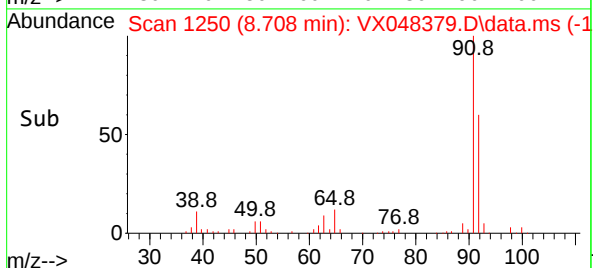
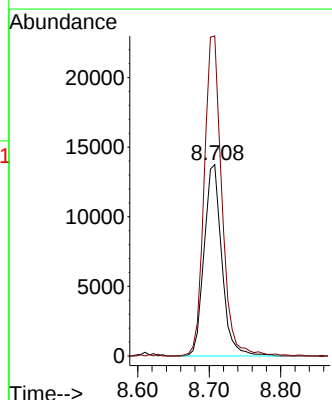
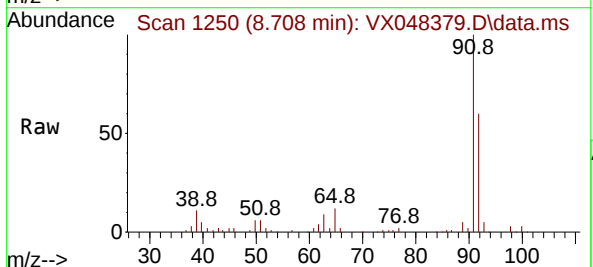
Instrument :
MSVOA_X
ClientSampleId :
P001-TW4-251023-01

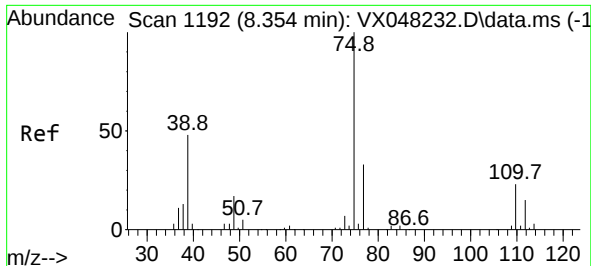
Tgt Ion: 43 Resp: 45176
Ion Ratio Lower Upper
43 100
58 8.1 29.5 44.3#



#52
Toluene
Concen: 5.573 ug/l
RT: 8.708 min Scan# 1250
Delta R.T. 0.006 min
Lab File: VX048379.D
Acq: 27 Oct 2025 17:47

Tgt Ion: 92 Resp: 23620
Ion Ratio Lower Upper
92 100
91 167.3 136.1 204.1

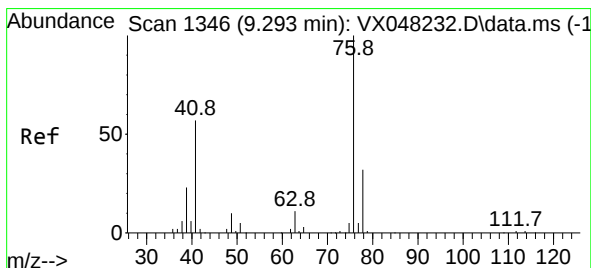
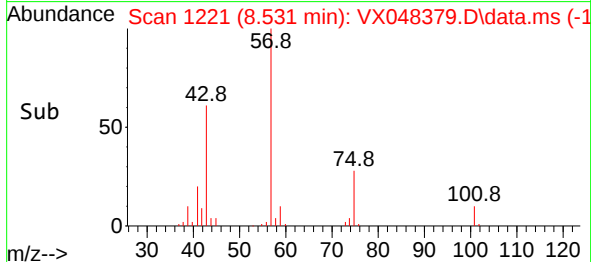
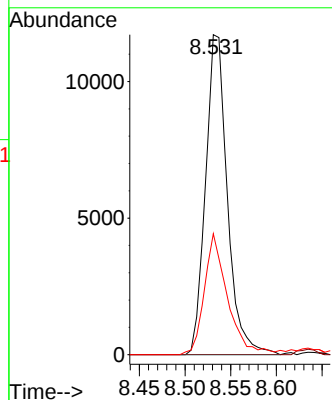
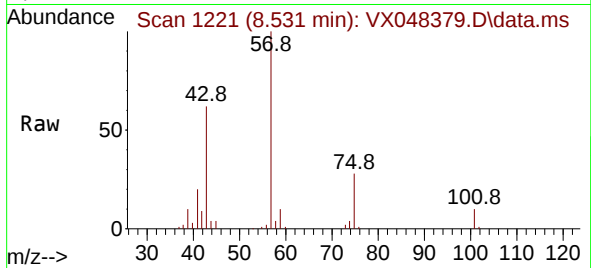




#54
cis-1,3-Dichloropropene
Concen: 7.004 ug/l
RT: 8.531 min Scan# 1192
Delta R.T. 0.183 min
Lab File: VX048379.D
Acq: 27 Oct 2025 17:47

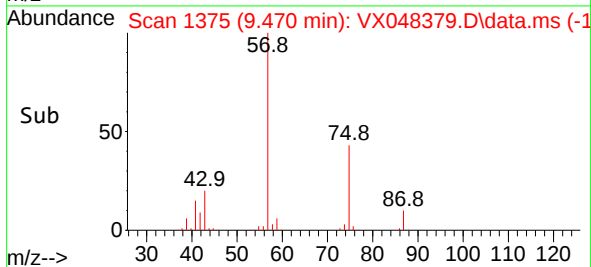
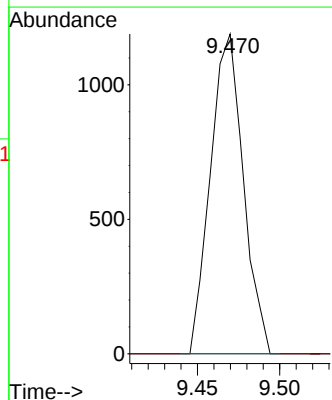
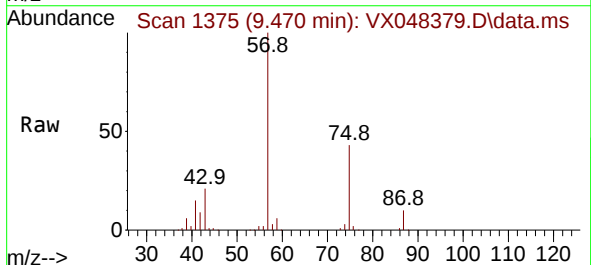
Instrument :
MSVOA_X
ClientSampleId :
P001-TW4-251023-01

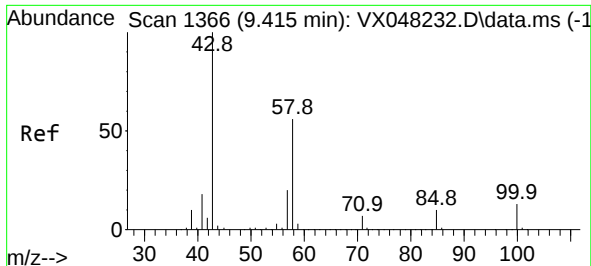
Tgt Ion: 75 Resp: 19430
Ion Ratio Lower Upper
75 100
77 0.0 24.9 37.3#
39 36.5 42.6 64.0#



#57
1,3-Dichloropropane
Concen: 0.615 ug/l
RT: 9.470 min Scan# 1375
Delta R.T. 0.177 min
Lab File: VX048379.D
Acq: 27 Oct 2025 17:47

Tgt Ion: 76 Resp: 1655
Ion Ratio Lower Upper
76 100
78 0.0 25.4 38.0#





#59

2-Hexanone

Concen: 18.560 ug/l

RT: 9.470 min Scan# 1

Delta R.T. 0.055 min

Lab File: VX048379.D

Acq: 27 Oct 2025 17:47

Instrument :

MSVOA_X

ClientSampleId :

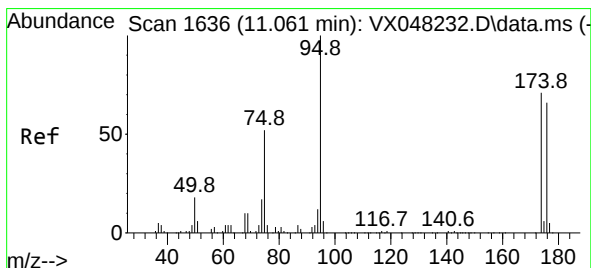
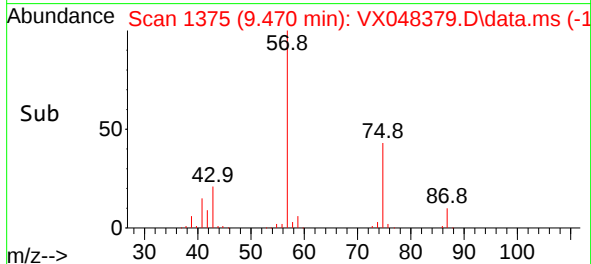
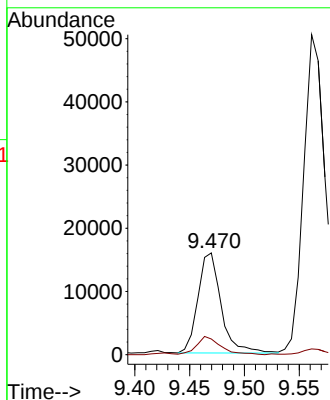
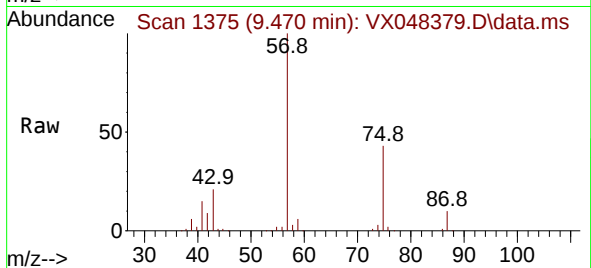
P001-TW4-251023-01

Tgt Ion: 43 Resp: 23344

Ion Ratio Lower Upper

43 100

58 18.7 26.3 78.8#



#62

4-Bromofluorobenzene

Concen: 54.758 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. -0.000 min

Lab File: VX048379.D

Acq: 27 Oct 2025 17:47

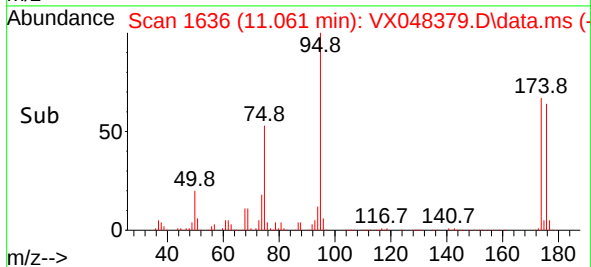
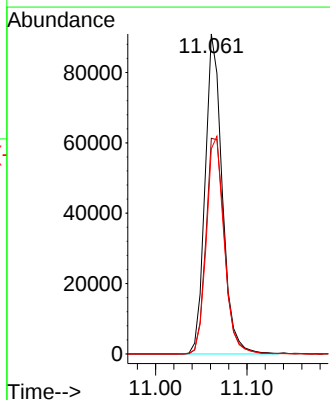
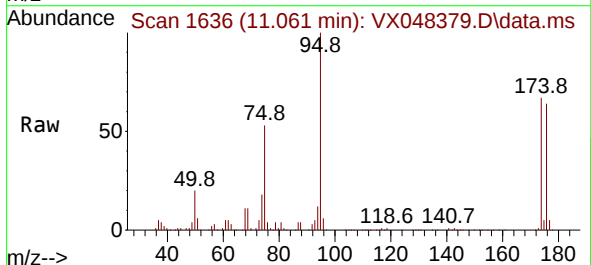
Tgt Ion: 95 Resp: 118046

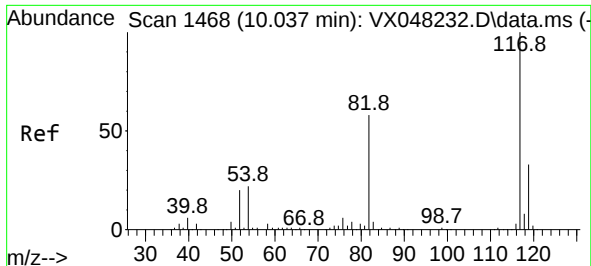
Ion Ratio Lower Upper

95 100

174 72.9 0.0 147.8

176 70.8 0.0 142.8

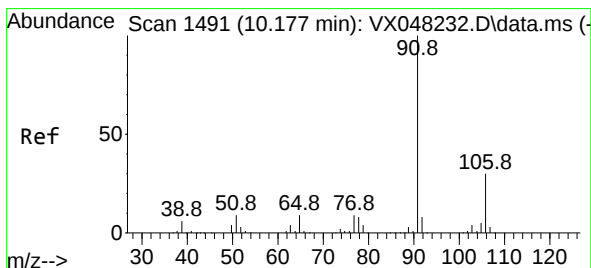
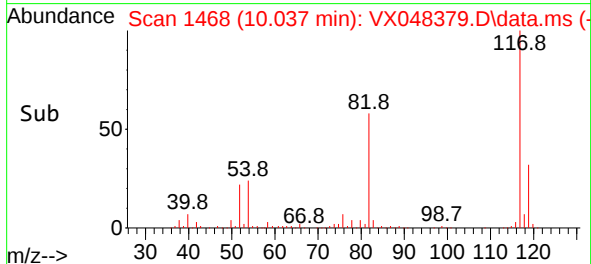
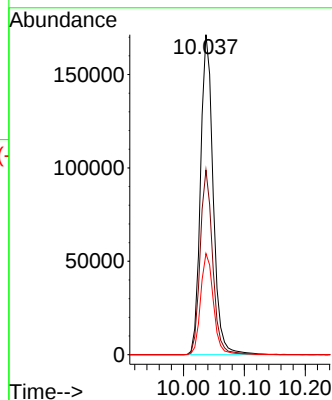
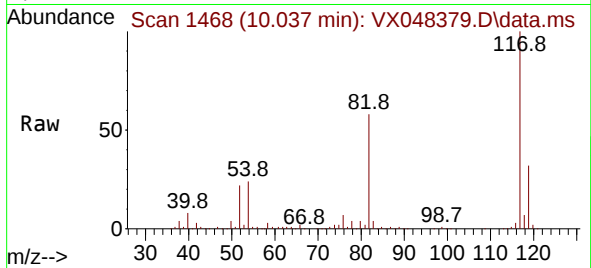




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048379.D
Acq: 27 Oct 2025 17:47

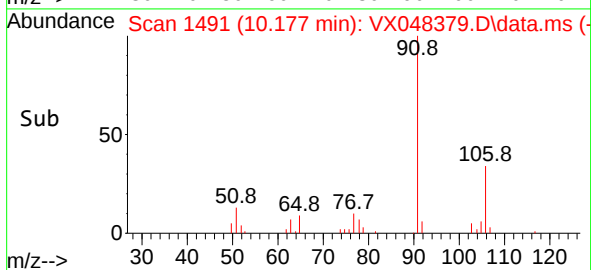
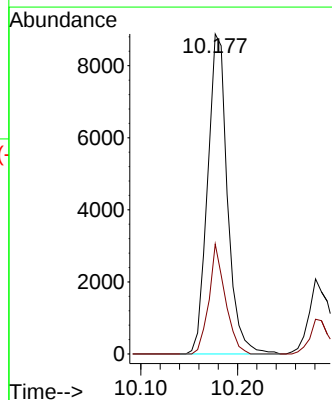
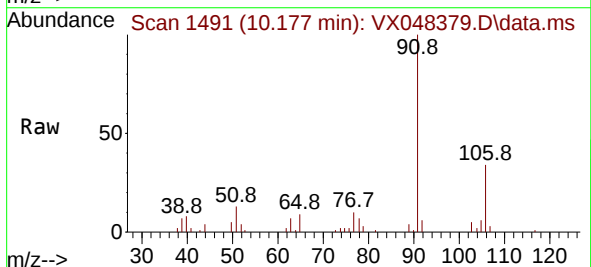
Instrument :
MSVOA_X
ClientSampleId :
P001-TW4-251023-01

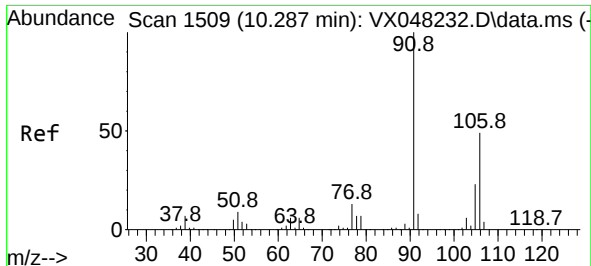
Tgt Ion:117 Resp: 246825
Ion Ratio Lower Upper
117 100
82 57.7 46.5 69.7
119 31.6 25.9 38.9



#67
Ethyl Benzene
Concen: 1.340 ug/l
RT: 10.177 min Scan# 1491
Delta R.T. -0.000 min
Lab File: VX048379.D
Acq: 27 Oct 2025 17:47

Tgt Ion: 91 Resp: 12668
Ion Ratio Lower Upper
91 100
106 34.4 23.8 35.6

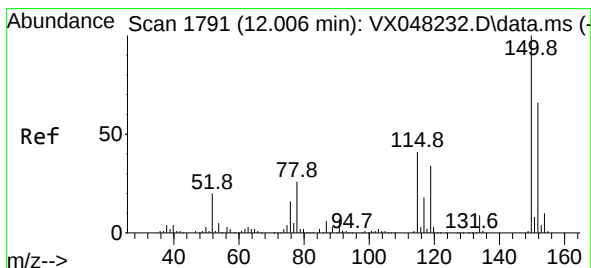
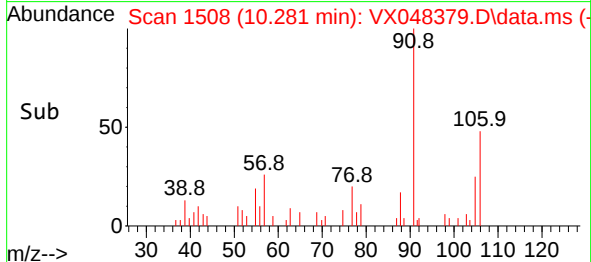
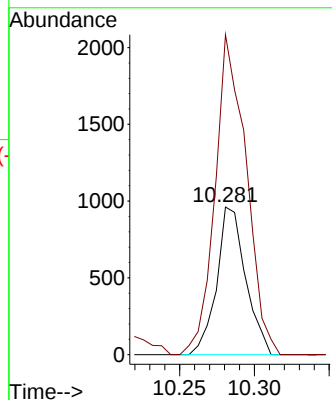
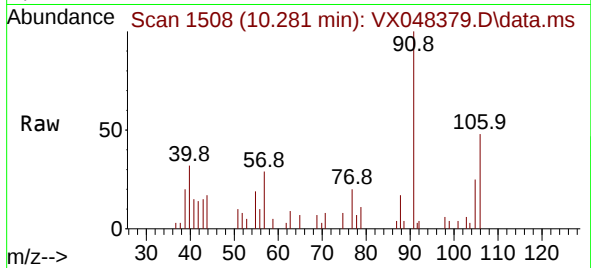




#68
m/p-Xylenes
Concen: 0.368 ug/l
RT: 10.281 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX048379.D
Acq: 27 Oct 2025 17:47

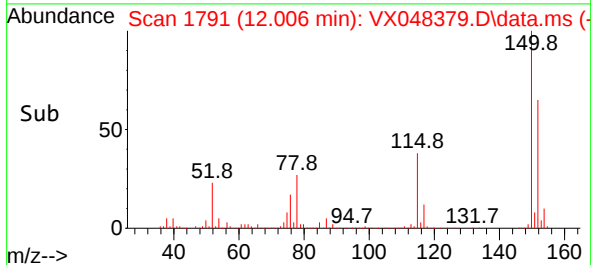
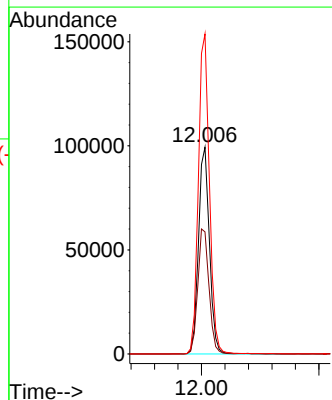
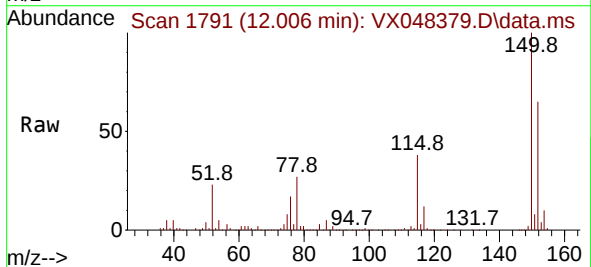
Instrument :
MSVOA_X
ClientSampleId :
P001-TW4-251023-01

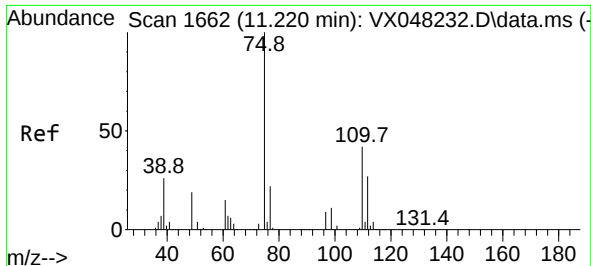
Tgt Ion:106 Resp: 1294
Ion Ratio Lower Upper
106 100
91 233.2 167.9 251.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX048379.D
Acq: 27 Oct 2025 17:47

Tgt Ion:152 Resp: 128536
Ion Ratio Lower Upper
152 100
115 61.9 43.1 129.4
150 156.0 0.0 353.0

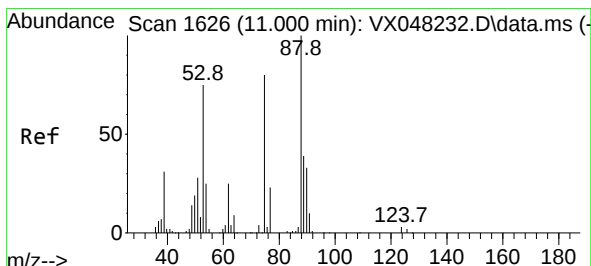
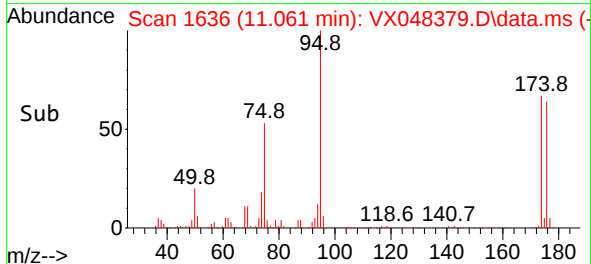
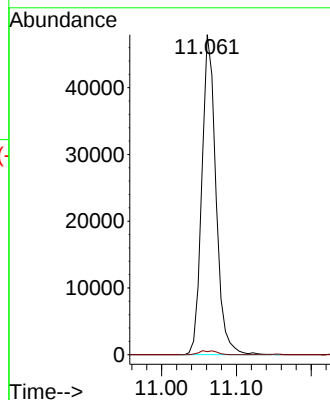
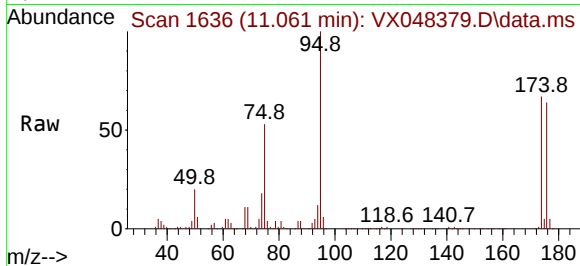




#76
1,2,3-Trichloropropane
Concen: 30.158 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.159 min
Lab File: VX048379.D
Acq: 27 Oct 2025 17:47

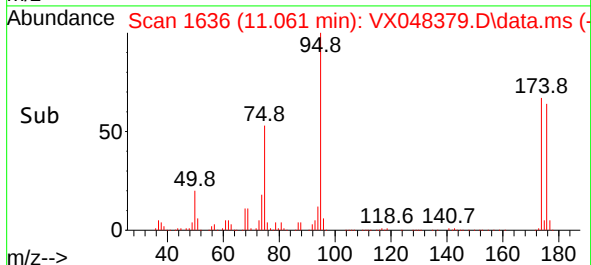
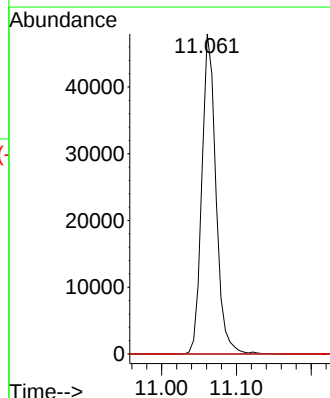
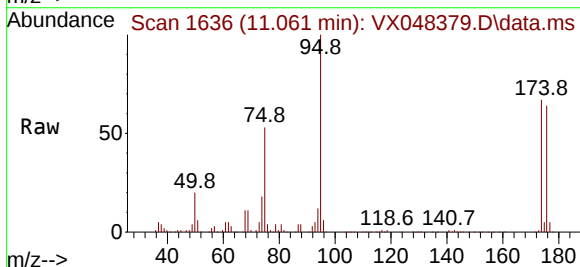
Instrument :
MSVOA_X
ClientSampleId :
P001-TW4-251023-01

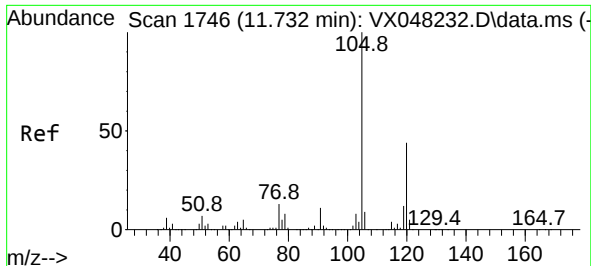
Tgt Ion: 75 Resp: 62862
Ion Ratio Lower Upper
75 100
77 1.5 22.4 67.2#



#81
trans-1,4-Dichloro-2-butene
Concen: 73.372 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.061 min
Lab File: VX048379.D
Acq: 27 Oct 2025 17:47

Tgt Ion: 75 Resp: 62862
Ion Ratio Lower Upper
75 100
53 0.0 79.5 119.3#
89 0.0 36.8 55.2#

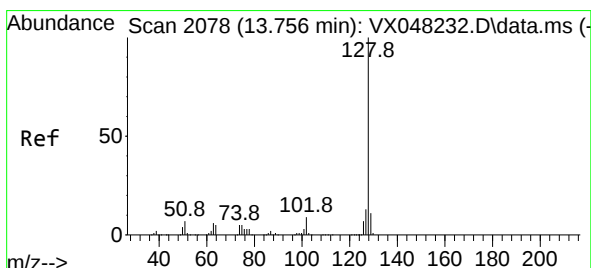
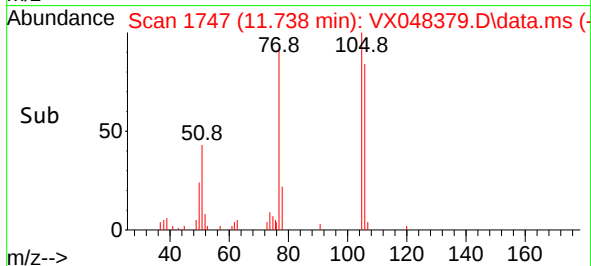
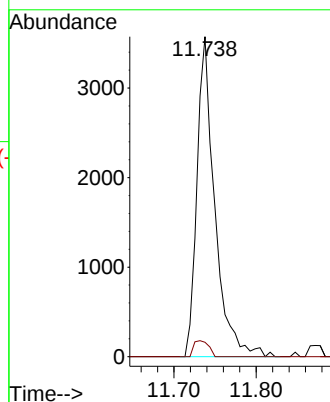
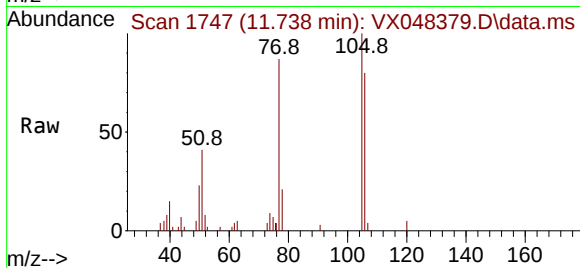




#84
 1,2,4-Trimethylbenzene
 Concen: 0.694 ug/l
 RT: 11.738 min Scan# 1747
 Delta R.T. 0.006 min
 Lab File: VX048379.D
 Acq: 27 Oct 2025 17:47

Instrument :
 MSVOA_X
 ClientSampleId :
 P001-TW4-251023-01

Tgt Ion:105 Resp: 5384
 Ion Ratio Lower Upper
 105 100
 120 4.2 22.1 66.5#



#95
 Naphthalene
 Concen: 1.199 ug/l
 RT: 13.756 min Scan# 2078
 Delta R.T. -0.000 min
 Lab File: VX048379.D
 Acq: 27 Oct 2025 17:47

Tgt Ion:128 Resp: 8947
 Ion Ratio Lower Upper
 128 100
 127 13.2 10.2 15.4
 129 11.5 8.6 12.8

