

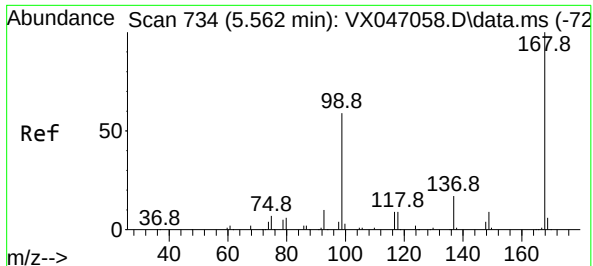
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072825\
 Data File : VX047166.D
 Acq On : 28 Jul 2025 15:28
 Operator : JC/MD
 Sample : Q2706-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RT-5417

Quant Time: Jul 29 02:18:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 22 03:59:51 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.562	168	337696	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	584582	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	523838	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	264530	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	197726	47.003	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	94.000%		
35) Dibromofluoromethane	5.397	113	165865	45.954	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	91.900%		
50) Toluene-d8	8.653	98	513207	43.905	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	87.820%#		
62) 4-Bromofluorobenzene	11.079	95	240414	47.727	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	95.460%		
Target Compounds						
					Qvalue	
10) Methyl Iodide	2.477	142	2019	0.462	ug/l #	76
11) Tert butyl alcohol	2.971	59	1110	Below Cal	#	72
13) Acrolein	2.263	56	655	0.723	ug/l	92
14) Allyl chloride	2.721	41	6769	0.882	ug/l #	48
16) Acetone	2.392	43	44765	26.564	ug/l	99
18) Methyl Acetate	2.721	43	32907	7.348	ug/l	95
20) Methylene Chloride	2.806	84	12218	2.635	ug/l	97
25) 2-Butanone	4.611	43	5439	2.217	ug/l #	89
31) Cyclohexane	5.562	56	7297	0.928	ug/l #	23
36) 1,1-Dichloropropene	5.562	75	29065	4.724	ug/l #	51
37) Ethyl Acetate	4.745	43	8668	1.529	ug/l #	79
38) Carbon Tetrachloride	5.568	117	36220	5.516	ug/l #	16
43) Isopropyl Acetate	6.354	43	11029	1.248	ug/l #	84
48) Methyl methacrylate	7.799	41	48371	10.046	ug/l #	47
49) 1,4-Dioxane	7.793	88	46	0.840	ug/l #	1
51) 4-Methyl-2-Pentanone	8.549	43	145572	27.710	ug/l #	48
54) cis-1,3-Dichloropropene	8.549	75	63997	9.302	ug/l #	62
57) 1,3-Dichloropropane	9.482	76	2469	0.346	ug/l #	43
59) 2-Hexanone	9.378	43	28083	8.091	ug/l #	25
76) 1,2,3-Trichloropropane	11.079	75	125222	25.575	ug/l #	35
81) trans-1,4-Dichloro-2-b...	11.079	75	125222	65.891	ug/l #	8

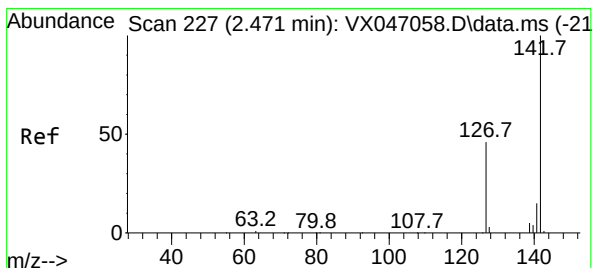
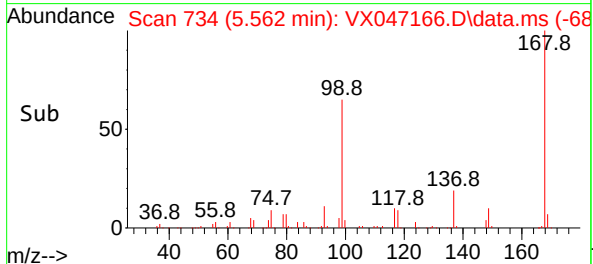
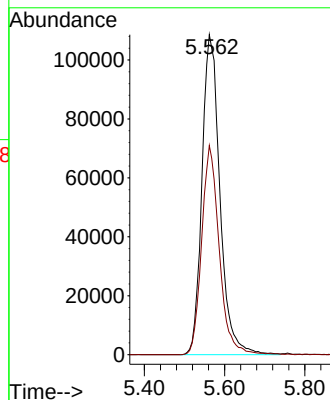
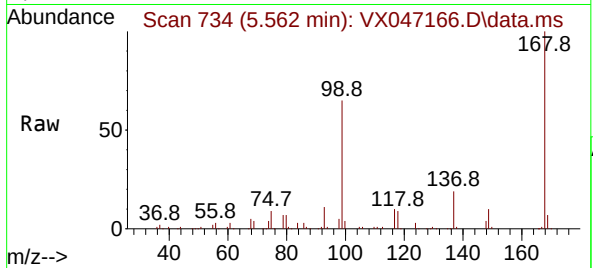
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX047166.D
Acq: 28 Jul 2025 15:28

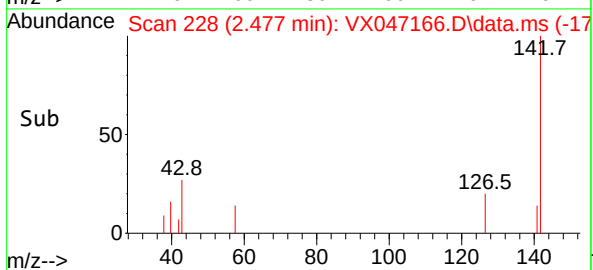
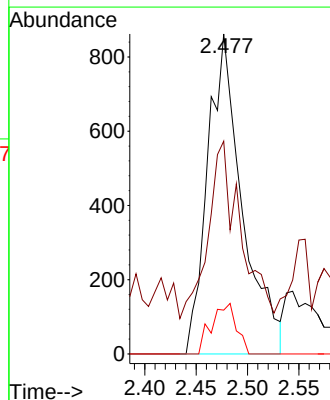
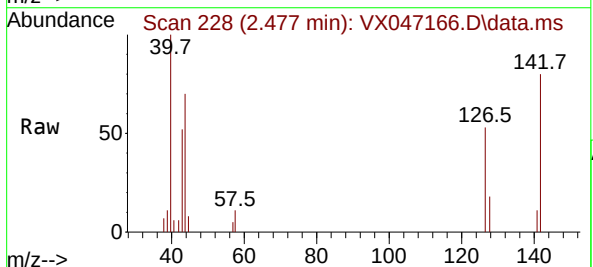
Instrument :
MSVOA_X
ClientSampleId :
RT-5417

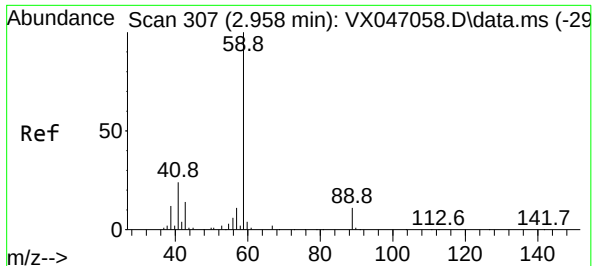
Tgt Ion:168 Resp: 337696
Ion Ratio Lower Upper
168 100
99 65.4 48.0 72.0



#10
Methyl Iodide
Concen: 0.462 ug/l
RT: 2.477 min Scan# 228
Delta R.T. 0.006 min
Lab File: VX047166.D
Acq: 28 Jul 2025 15:28

Tgt Ion:142 Resp: 2019
Ion Ratio Lower Upper
142 100
127 64.9 36.6 54.8#
141 11.3 10.9 16.3





#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.971 min Scan# 307

Delta R.T. 0.013 min

Lab File: VX047166.D

Acq: 28 Jul 2025 15:28

Instrument :

MSVOA_X

ClientSampleId :

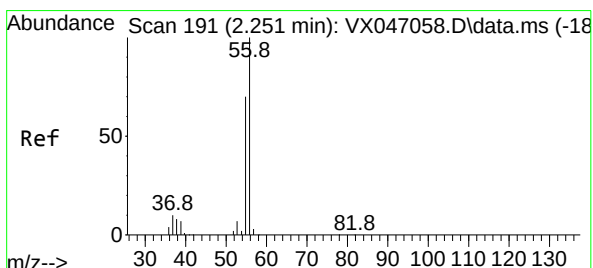
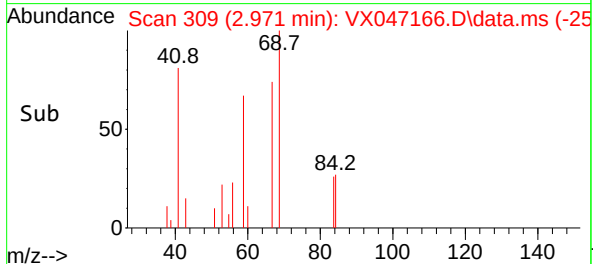
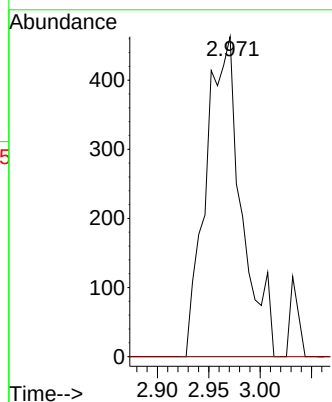
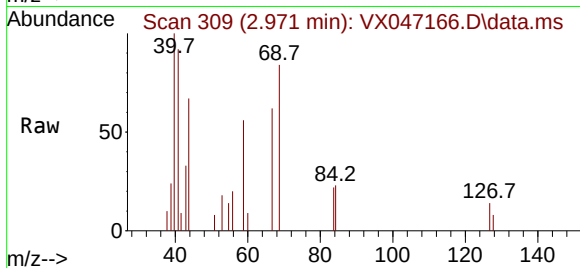
RT-5417

Tgt Ion: 59 Resp: 1110

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



#13

Acrolein

Concen: 0.723 ug/l

RT: 2.263 min Scan# 193

Delta R.T. 0.012 min

Lab File: VX047166.D

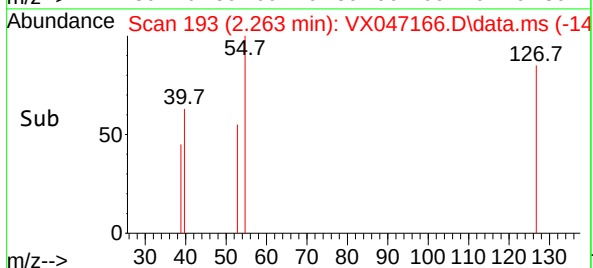
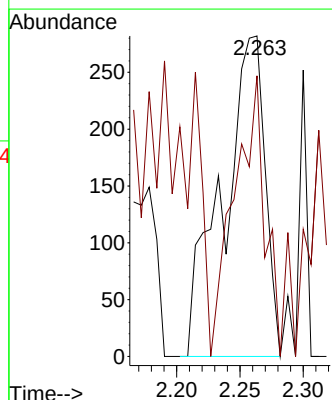
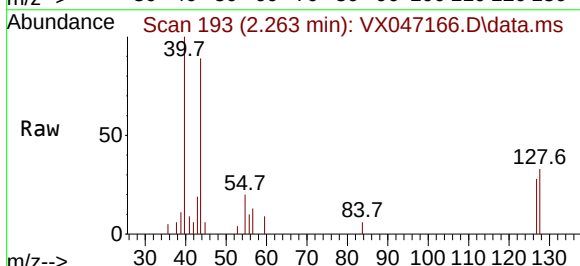
Acq: 28 Jul 2025 15:28

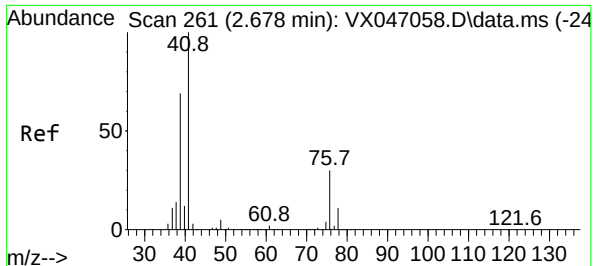
Tgt Ion: 56 Resp: 655

Ion Ratio Lower Upper

56 100

55 62.9 55.7 83.5

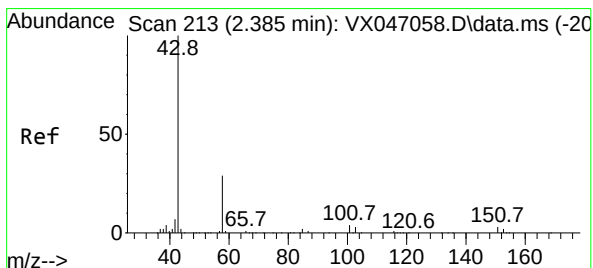
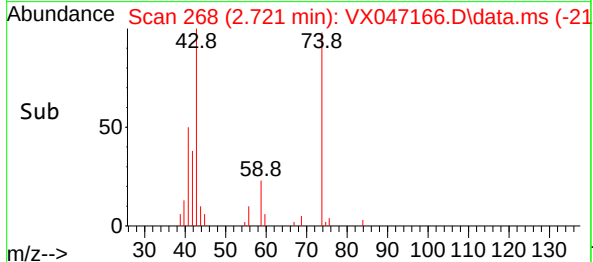
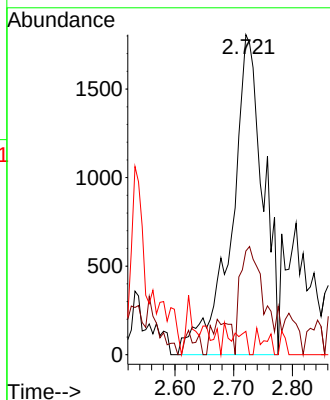
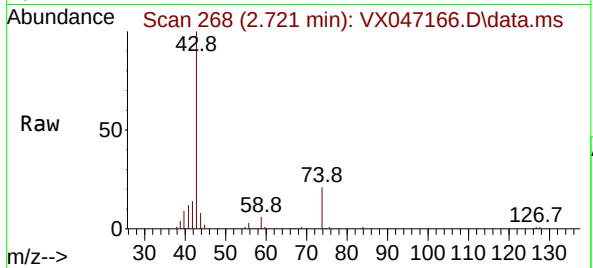




#14
 Allyl chloride
 Concen: 0.882 ug/l
 RT: 2.721 min Scan# 214
 Delta R.T. 0.043 min
 Lab File: VX047166.D
 Acq: 28 Jul 2025 15:28

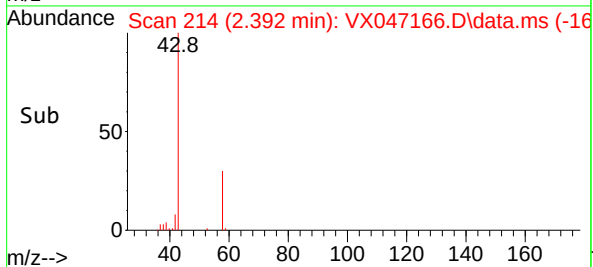
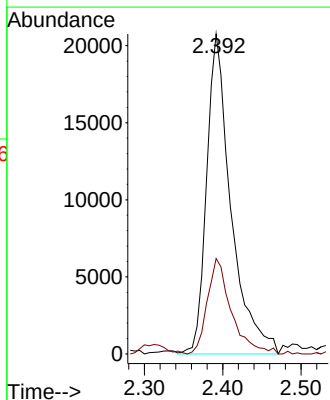
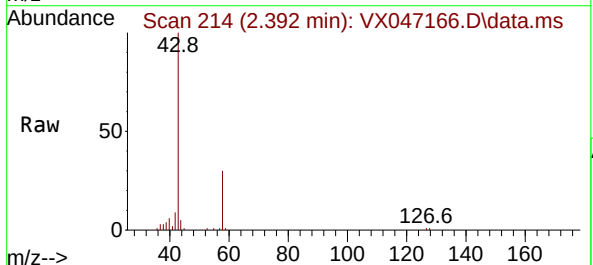
Instrument :
 MSVOA_X
 ClientSampleId :
 RT-5417

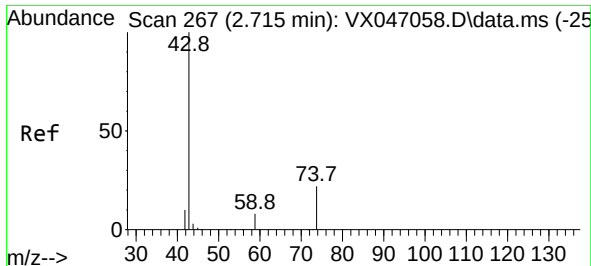
Tgt Ion: 41 Resp: 6769
 Ion Ratio Lower Upper
 41 100
 39 24.2 52.6 78.8#
 76 2.6 25.7 38.5#



#16
 Acetone
 Concen: 26.564 ug/l
 RT: 2.392 min Scan# 214
 Delta R.T. 0.006 min
 Lab File: VX047166.D
 Acq: 28 Jul 2025 15:28

Tgt Ion: 43 Resp: 44765
 Ion Ratio Lower Upper
 43 100
 58 29.4 24.0 36.0

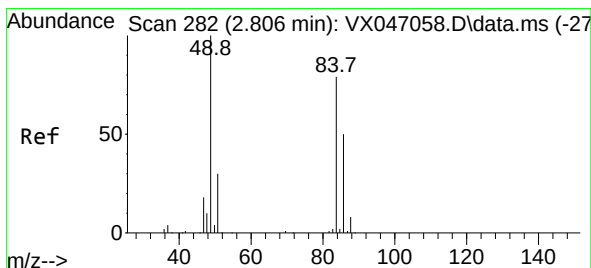
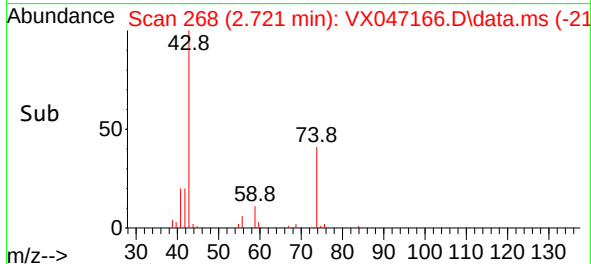
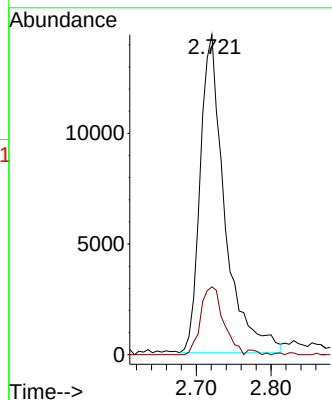
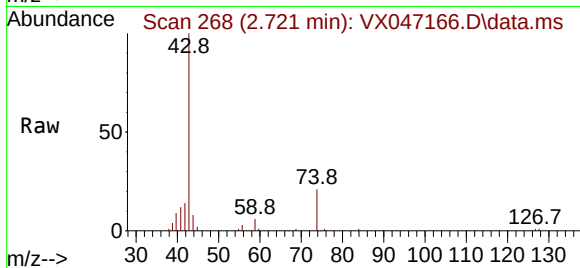




#18
Methyl Acetate
Concen: 7.348 ug/l
RT: 2.721 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX047166.D
Acq: 28 Jul 2025 15:28

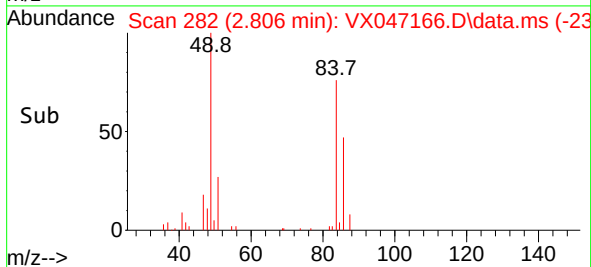
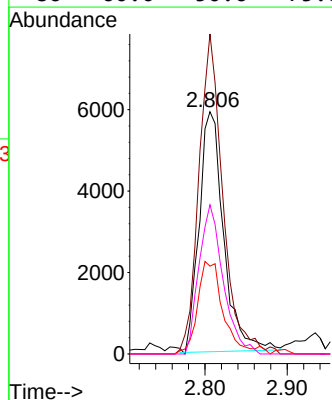
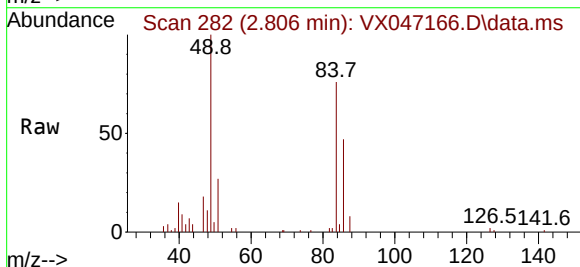
Instrument :
MSVOA_X
ClientSampleId :
RT-5417

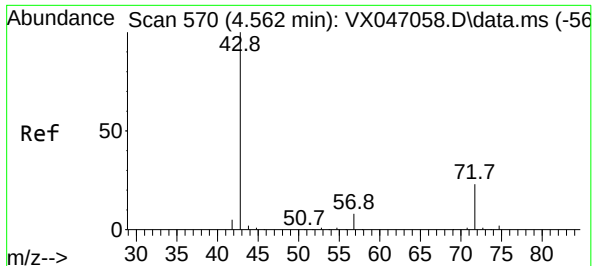
Tgt Ion: 43 Resp: 32907
Ion Ratio Lower Upper
43 100
74 19.6 17.7 26.5



#20
Methylene Chloride
Concen: 2.635 ug/l
RT: 2.806 min Scan# 282
Delta R.T. 0.000 min
Lab File: VX047166.D
Acq: 28 Jul 2025 15:28

Tgt Ion: 84 Resp: 12218
Ion Ratio Lower Upper
84 100
49 128.8 101.6 152.4
51 34.1 30.3 45.5
86 60.0 50.6 75.8

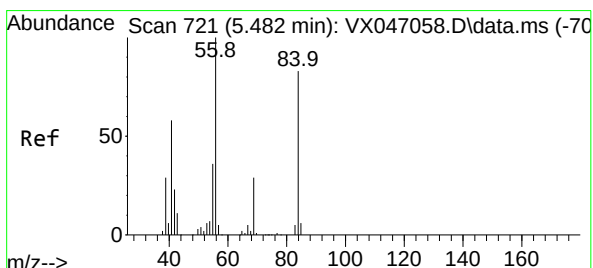
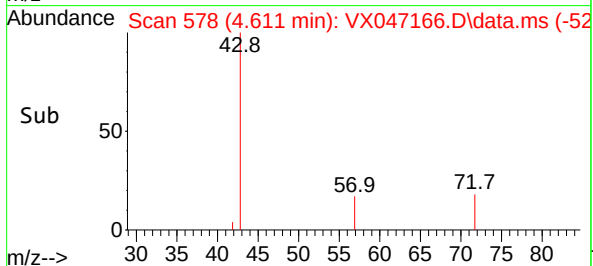
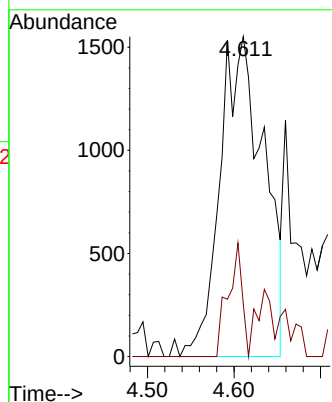
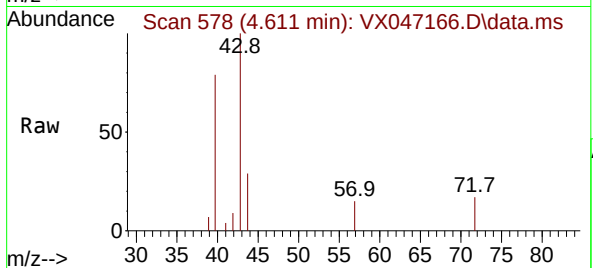




#25
2-Butanone
Concen: 2.217 ug/l
RT: 4.611 min Scan# 51
Delta R.T. 0.049 min
Lab File: VX047166.D
Acq: 28 Jul 2025 15:28

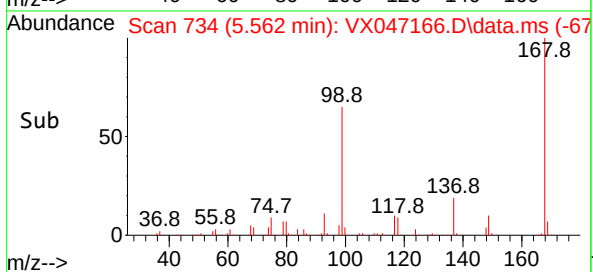
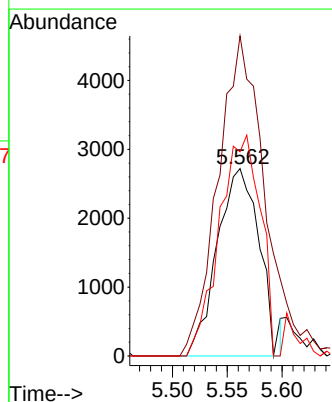
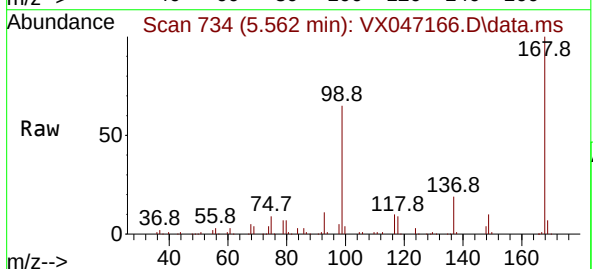
Instrument :
MSVOA_X
ClientSampleId :
RT-5417

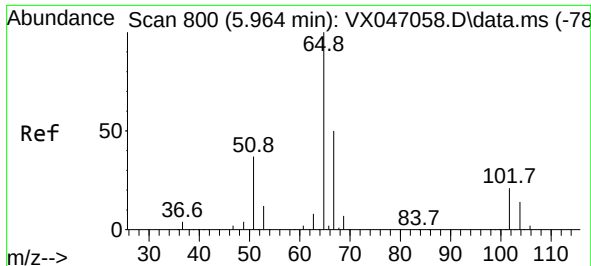
Tgt Ion: 43 Resp: 5439
Ion Ratio Lower Upper
43 100
72 17.9 18.8 28.2#



#31
Cyclohexane
Concen: 0.928 ug/l
RT: 5.562 min Scan# 734
Delta R.T. 0.079 min
Lab File: VX047166.D
Acq: 28 Jul 2025 15:28

Tgt Ion: 56 Resp: 7297
Ion Ratio Lower Upper
56 100
69 157.9 23.3 34.9#
84 100.8 66.5 99.7#

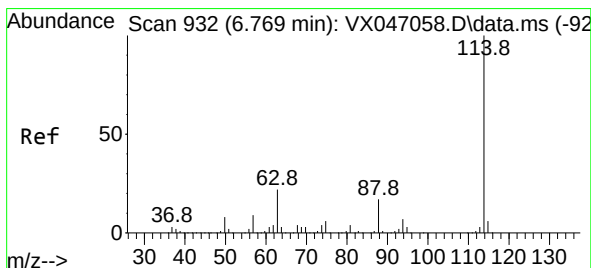
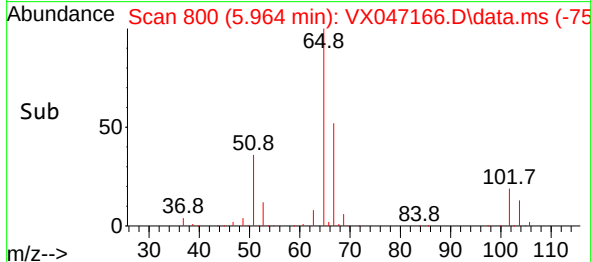
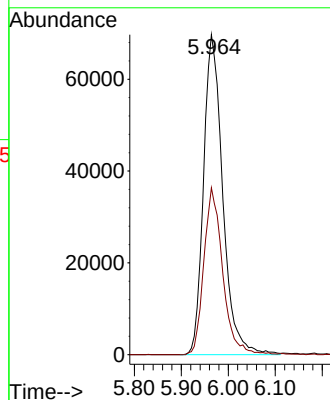
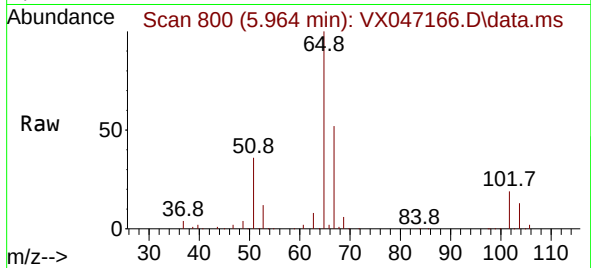




#33
 1,2-Dichloroethane-d4
 Concen: 47.003 ug/l
 RT: 5.964 min Scan# 800
 Delta R.T. 0.000 min
 Lab File: VX047166.D
 Acq: 28 Jul 2025 15:28

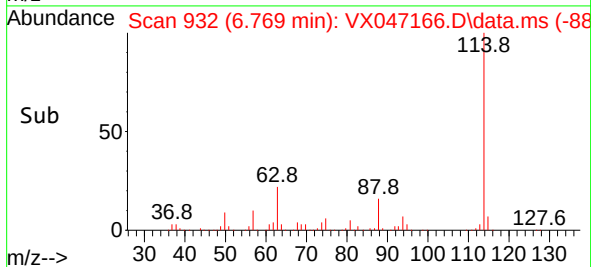
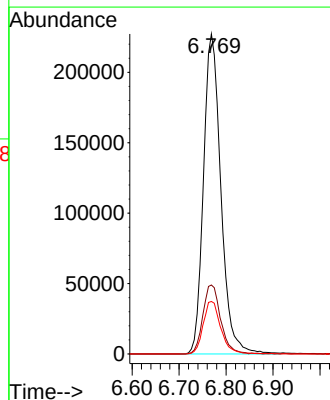
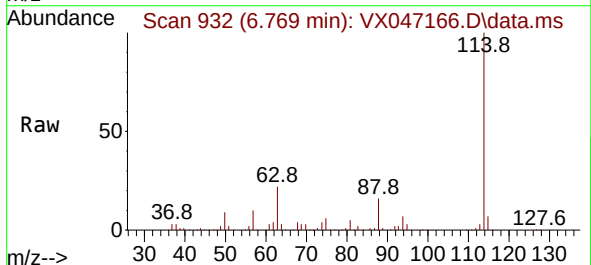
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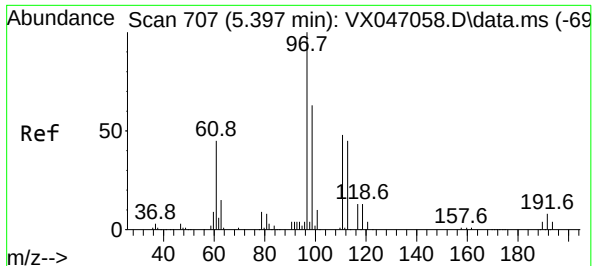
Tgt Ion: 65 Resp: 197726
 Ion Ratio Lower Upper
 65 100
 67 51.0 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.769 min Scan# 932
 Delta R.T. 0.000 min
 Lab File: VX047166.D
 Acq: 28 Jul 2025 15:28

Tgt Ion: 114 Resp: 584582
 Ion Ratio Lower Upper
 114 100
 63 21.6 0.0 43.2
 88 16.4 0.0 33.8

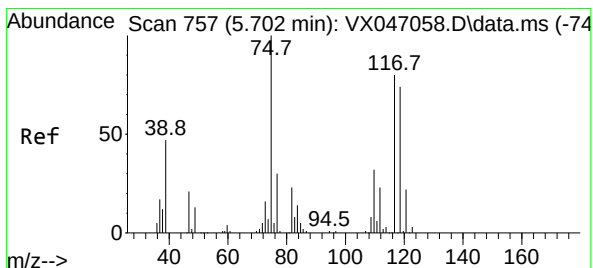
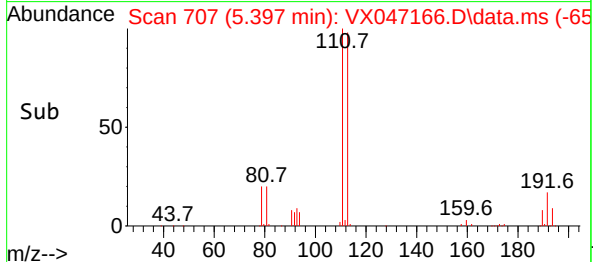
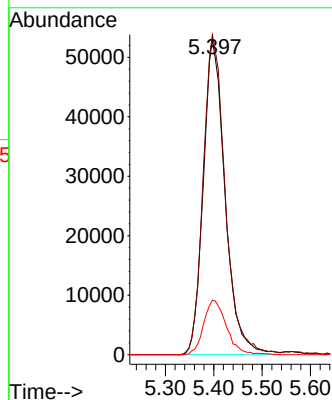
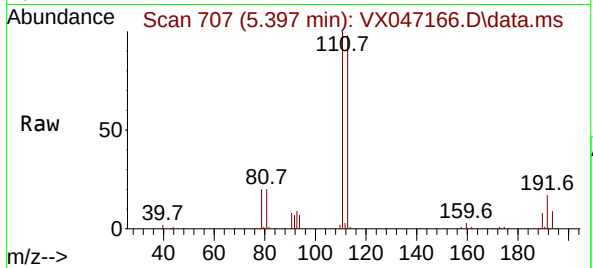




#35
Dibromofluoromethane
Concen: 45.954 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX047166.D
Acq: 28 Jul 2025 15:28

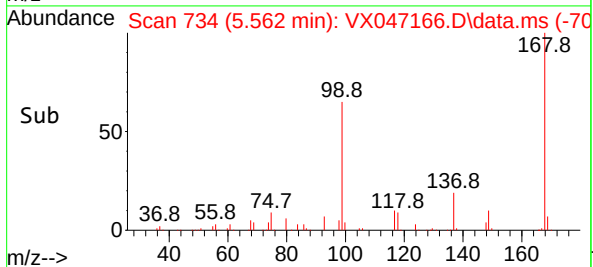
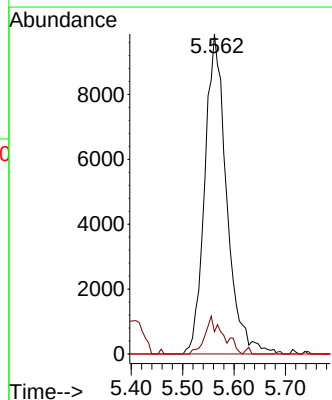
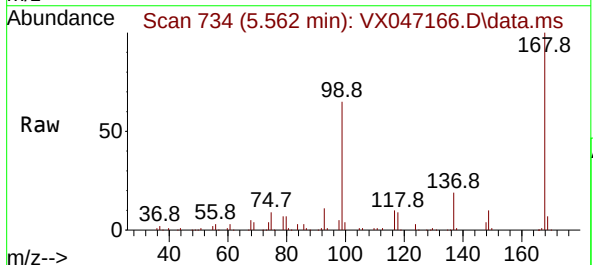
Instrument :
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ClientSampleId :
RT-5417

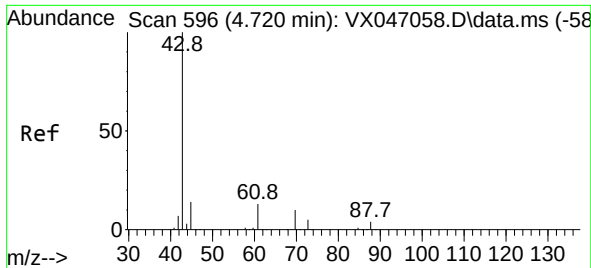
Tgt Ion:113 Resp: 165865
Ion Ratio Lower Upper
113 100
111 102.7 82.6 124.0
192 18.1 14.9 22.3



#36
1,1-Dichloropropene
Concen: 4.724 ug/l
RT: 5.562 min Scan# 734
Delta R.T. -0.140 min
Lab File: VX047166.D
Acq: 28 Jul 2025 15:28

Tgt Ion: 75 Resp: 29065
Ion Ratio Lower Upper
75 100
110 9.7 17.2 51.5#
77 0.0 25.1 37.7#

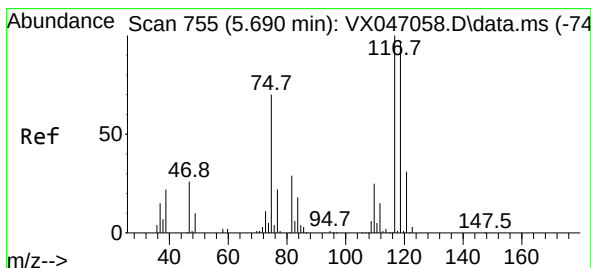
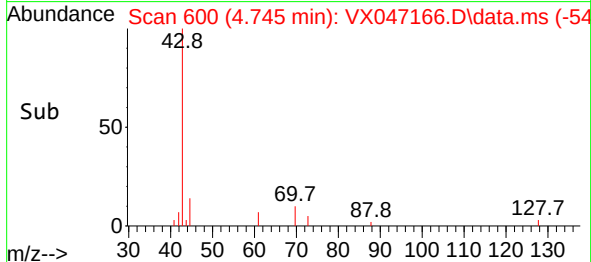
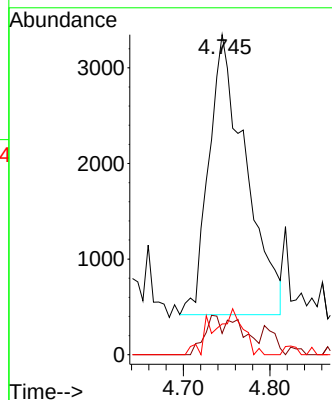
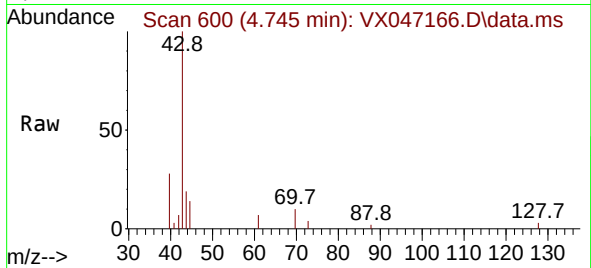




#37
Ethyl Acetate
Concen: 1.529 ug/l
RT: 4.745 min Scan# 600
Delta R.T. 0.024 min
Lab File: VX047166.D
Acq: 28 Jul 2025 15:28

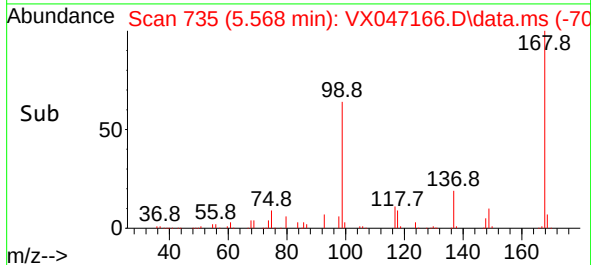
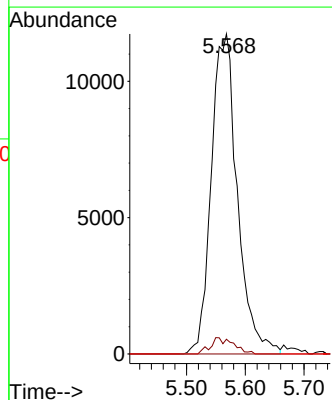
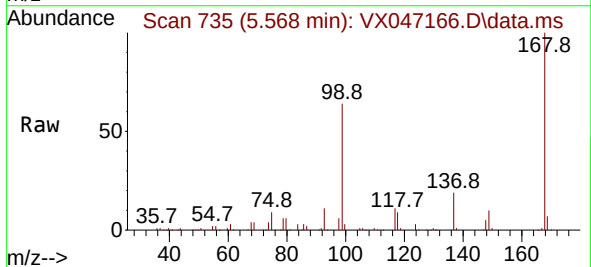
Instrument :
MSVOA_X
ClientSampleId :
RT-5417

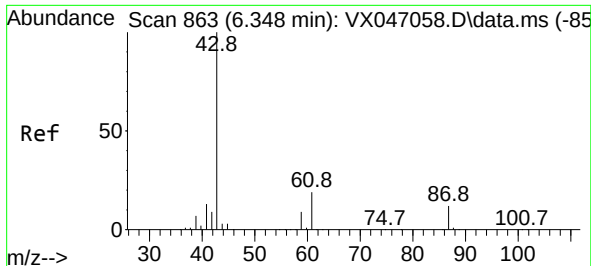
Tgt Ion: 43 Resp: 8668
Ion Ratio Lower Upper
43 100
61 6.4 10.2 15.2#
70 0.0 8.1 12.1#



#38
Carbon Tetrachloride
Concen: 5.516 ug/l
RT: 5.568 min Scan# 735
Delta R.T. -0.122 min
Lab File: VX047166.D
Acq: 28 Jul 2025 15:28

Tgt Ion: 117 Resp: 36220
Ion Ratio Lower Upper
117 100
119 4.6 76.6 115.0#
121 0.0 24.4 36.6#





#43

Isopropyl Acetate

Concen: 1.248 ug/l

RT: 6.354 min Scan# 8

Delta R.T. 0.006 min

Lab File: VX047166.D

Acq: 28 Jul 2025 15:28

Instrument :

MSVOA_X

ClientSampleId :

RT-5417

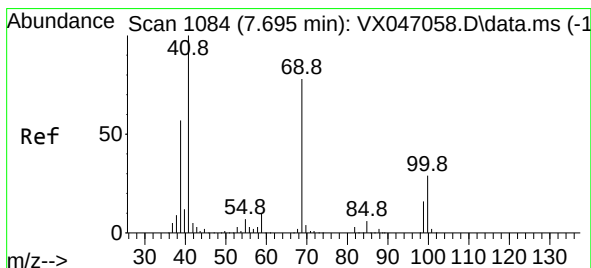
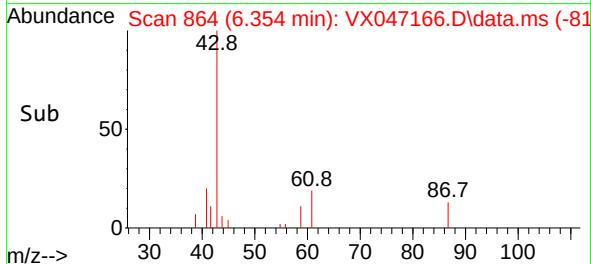
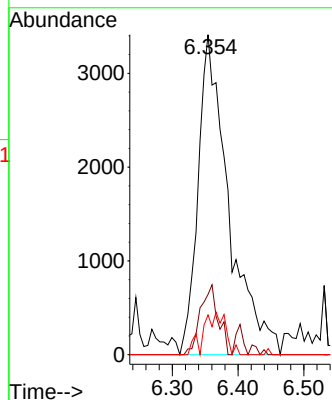
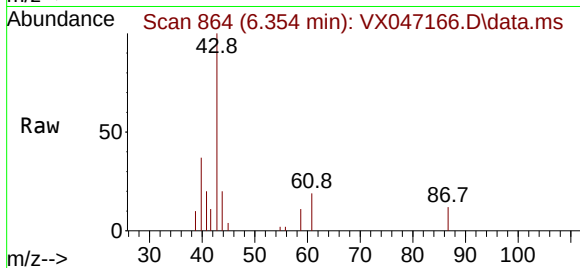
Tgt Ion: 43 Resp: 11029

Ion Ratio Lower Upper

43 100

61 12.7 15.1 22.7#

87 4.7 9.7 14.5#



#48

Methyl methacrylate

Concen: 10.046 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. 0.104 min

Lab File: VX047166.D

Acq: 28 Jul 2025 15:28

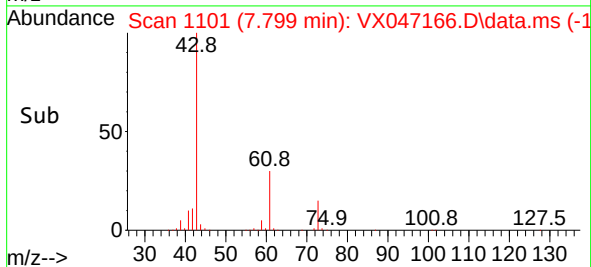
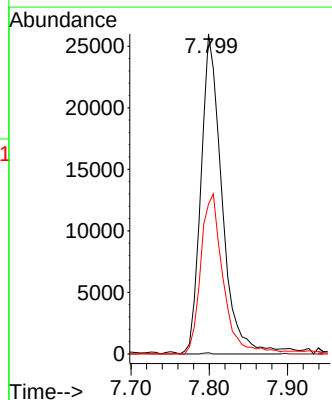
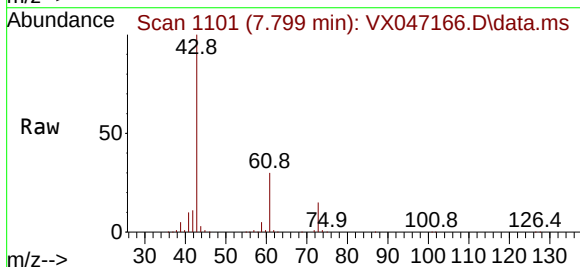
Tgt Ion: 41 Resp: 48371

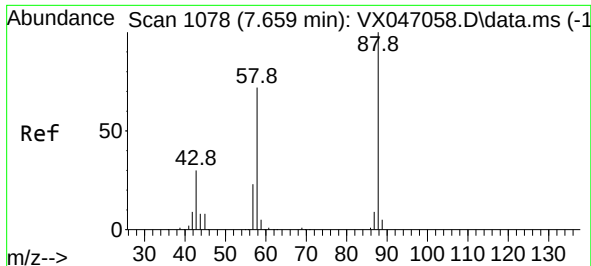
Ion Ratio Lower Upper

41 100

69 0.1 62.3 93.5#

39 53.6 44.8 67.2

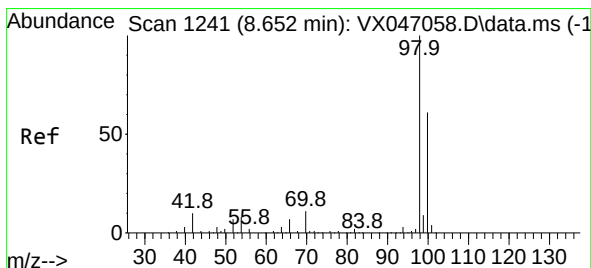
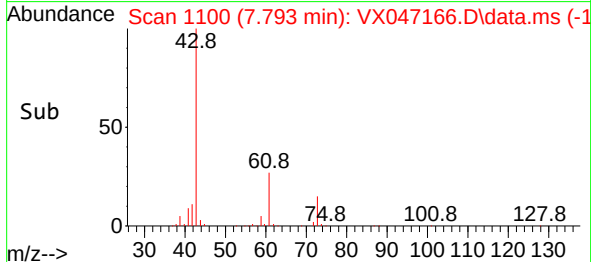
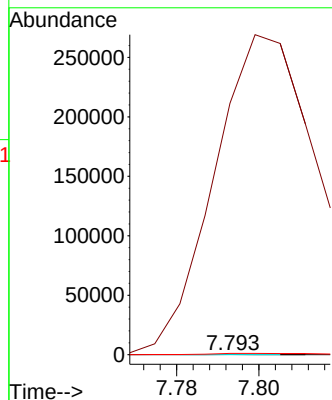
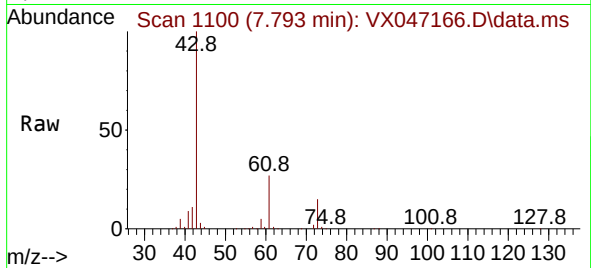




#49
1,4-Dioxane
Concen: 0.840 ug/l
RT: 7.793 min Scan# 1100
Delta R.T. 0.134 min
Lab File: VX047166.D
Acq: 28 Jul 2025 15:28

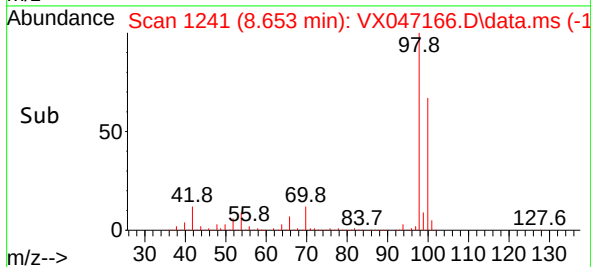
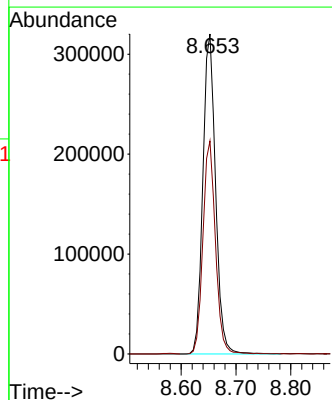
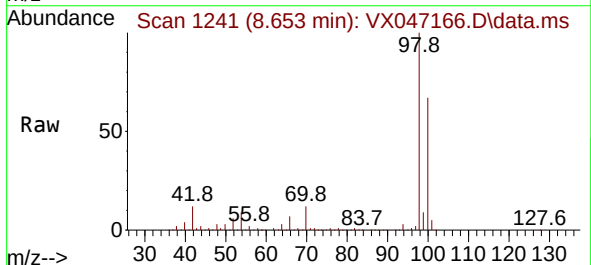
Instrument :
MSVOA_X
ClientSampleId :
RT-5417

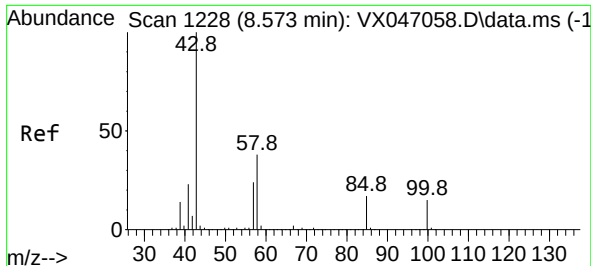
Tgt Ion: 88 Resp: 46
Ion Ratio Lower Upper
88 100
43 1133380.4 33.6 50.4#
58 4739.1 58.8 88.2#



#50
Toluene-d8
Concen: 43.905 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX047166.D
Acq: 28 Jul 2025 15:28

Tgt Ion: 98 Resp: 513207
Ion Ratio Lower Upper
98 100
100 65.8 53.3 79.9

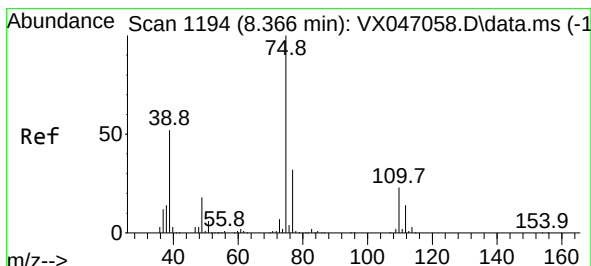
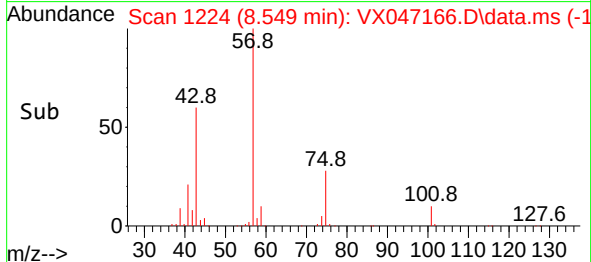
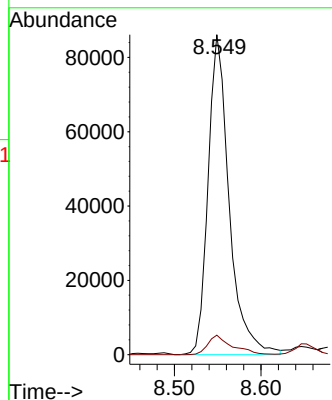
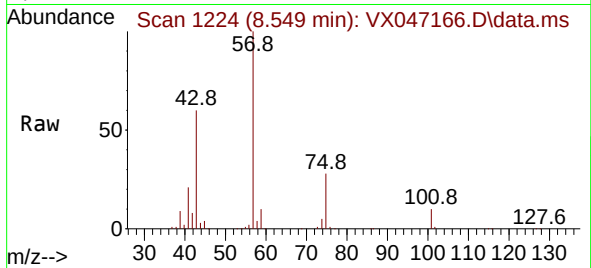




#51
4-Methyl-2-Pentanone
Concen: 27.710 ug/l
RT: 8.549 min Scan# 11
Delta R.T. -0.024 min
Lab File: VX047166.D
Acq: 28 Jul 2025 15:28

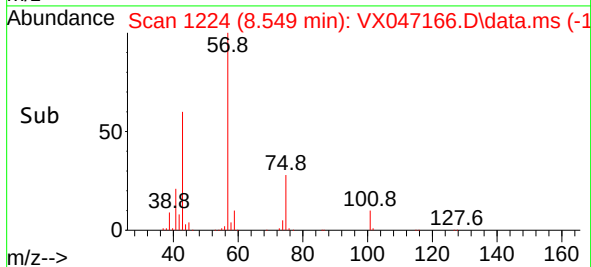
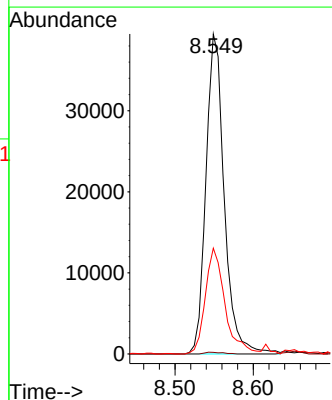
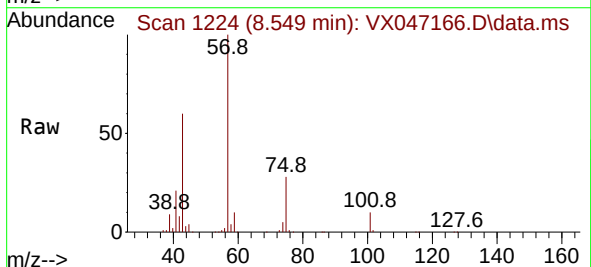
Instrument :
MSVOA_X
ClientSampleId :
RT-5417

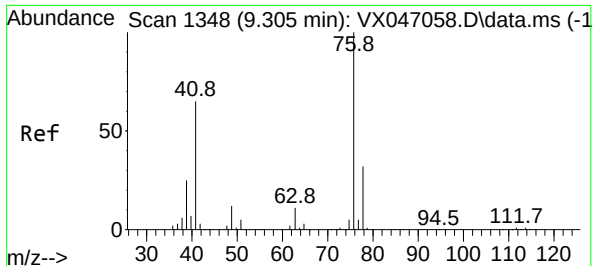
Tgt Ion: 43 Resp: 145572
Ion Ratio Lower Upper
43 100
58 7.0 30.6 45.8#



#54
cis-1,3-Dichloropropene
Concen: 9.302 ug/l
RT: 8.549 min Scan# 1224
Delta R.T. 0.183 min
Lab File: VX047166.D
Acq: 28 Jul 2025 15:28

Tgt Ion: 75 Resp: 63997
Ion Ratio Lower Upper
75 100
77 0.5 25.4 38.0#
39 33.0 41.8 62.6#





#57

1,3-Dichloropropane

Concen: 0.346 ug/l

RT: 9.482 min Scan# 1

Delta R.T. 0.177 min

Lab File: VX047166.D

Acq: 28 Jul 2025 15:28

Instrument :

MSVOA_X

ClientSampleId :

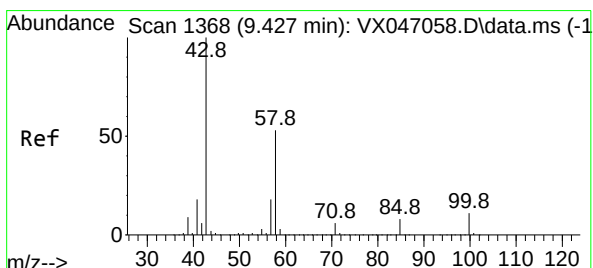
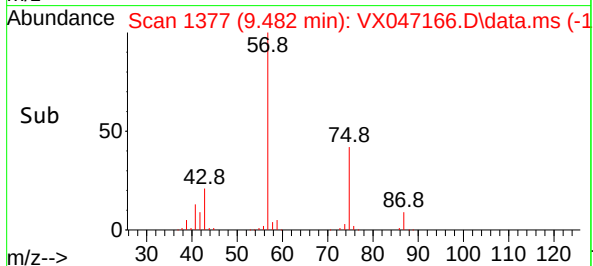
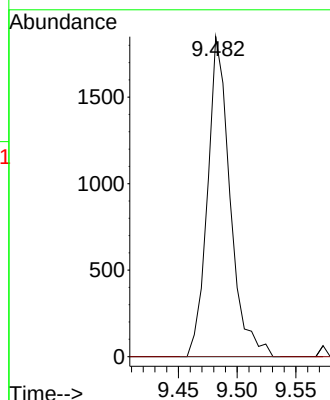
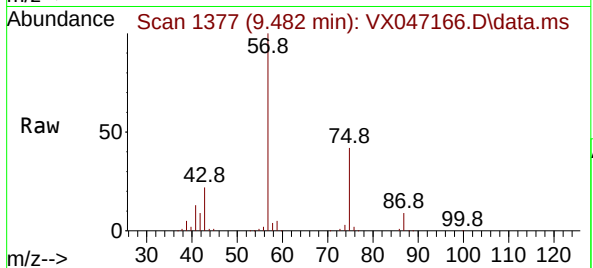
RT-5417

Tgt Ion: 76 Resp: 2469

Ion Ratio Lower Upper

76 100

78 0.0 25.5 38.3#



#59

2-Hexanone

Concen: 8.091 ug/l

RT: 9.378 min Scan# 1360

Delta R.T. -0.049 min

Lab File: VX047166.D

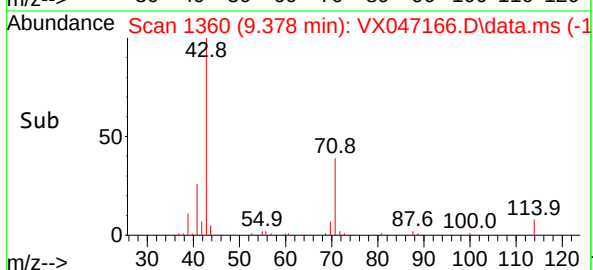
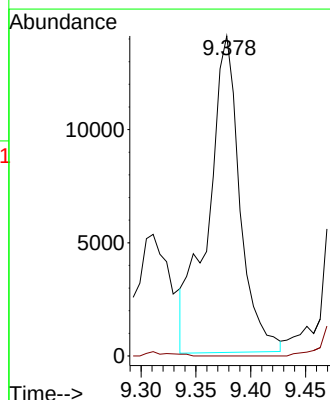
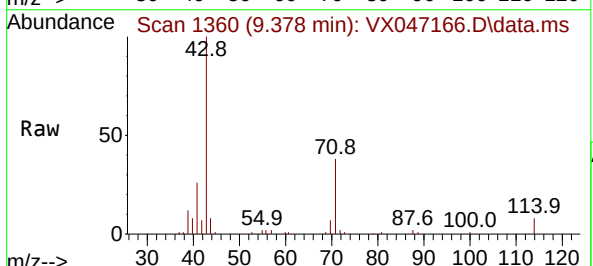
Acq: 28 Jul 2025 15:28

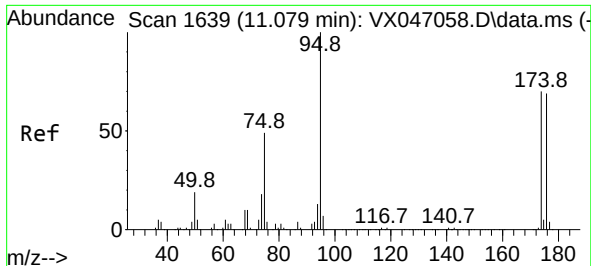
Tgt Ion: 43 Resp: 28083

Ion Ratio Lower Upper

43 100

58 0.0 26.5 79.5#

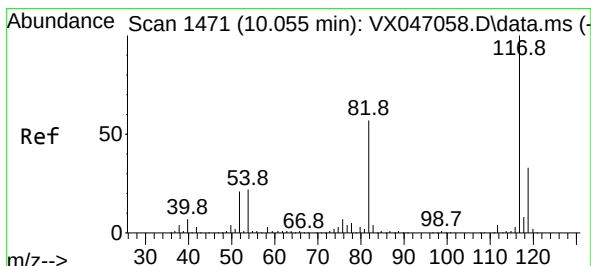
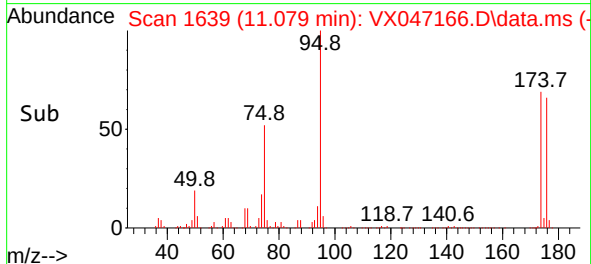
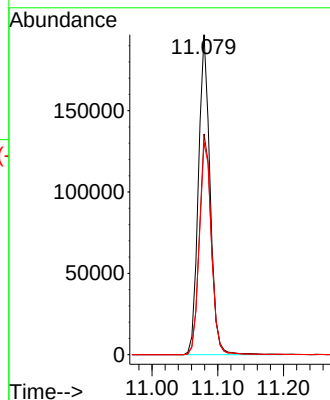
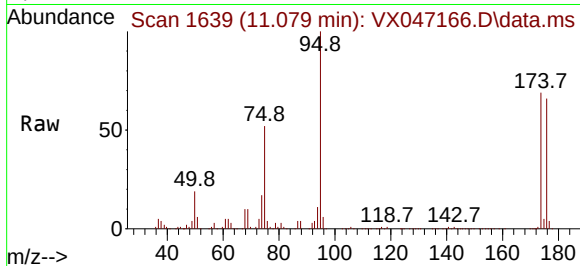




#62
4-Bromofluorobenzene
Concen: 47.727 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047166.D
Acq: 28 Jul 2025 15:28

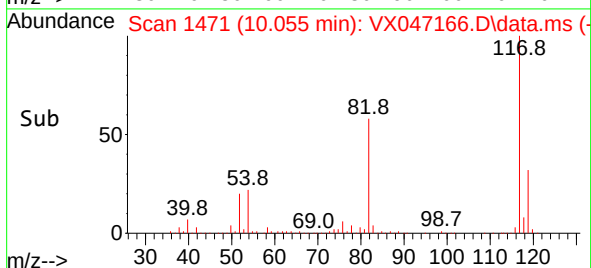
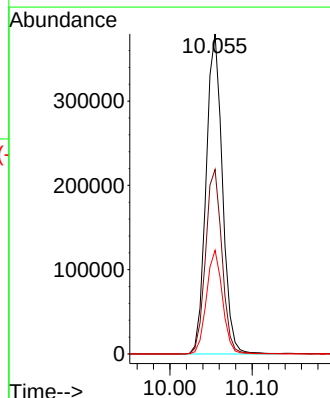
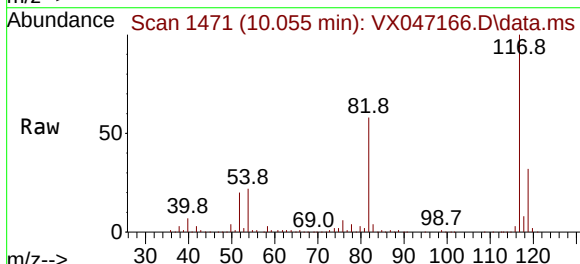
Instrument :
MSVOA_X
ClientSampleId :
RT-5417

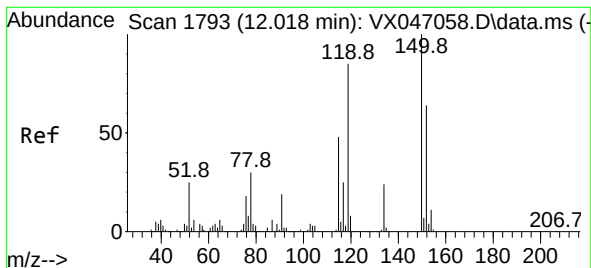
Tgt Ion: 95 Resp: 240414
Ion Ratio Lower Upper
95 100
174 70.8 0.0 144.6
176 69.3 0.0 139.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047166.D
Acq: 28 Jul 2025 15:28

Tgt Ion: 117 Resp: 523838
Ion Ratio Lower Upper
117 100
82 57.7 45.4 68.2
119 32.4 26.1 39.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX047166.D

Acq: 28 Jul 2025 15:28

Instrument :

MSVOA_X

ClientSampleId :

RT-5417

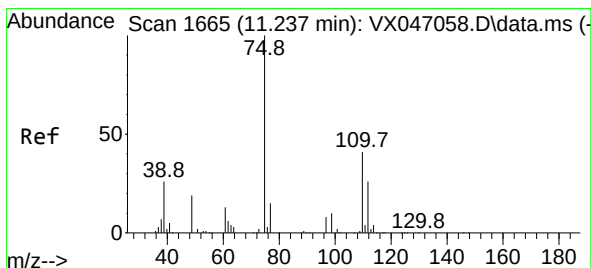
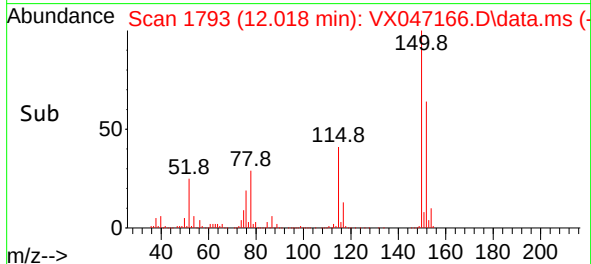
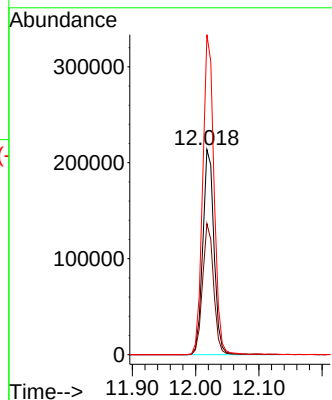
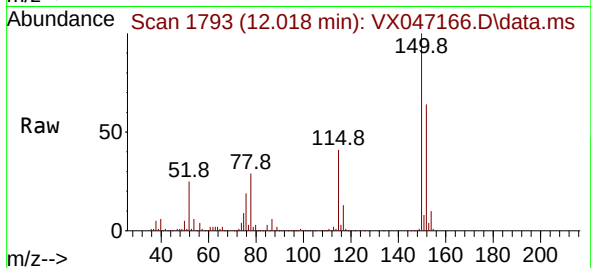
Tgt Ion:152 Resp: 264530

Ion Ratio Lower Upper

152 100

115 63.3 45.6 136.7

150 157.2 0.0 354.6



#76

1,2,3-Trichloropropane

Concen: 25.575 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX047166.D

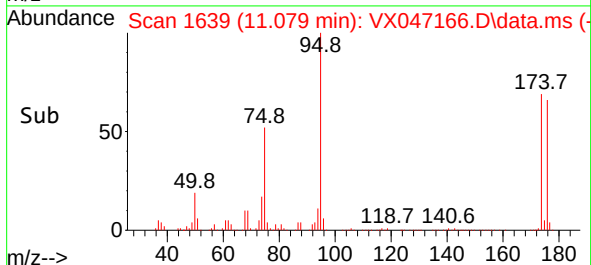
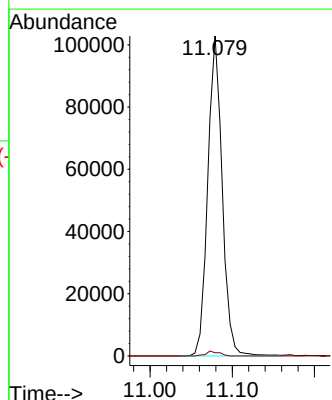
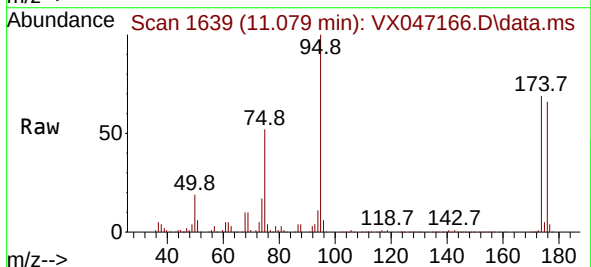
Acq: 28 Jul 2025 15:28

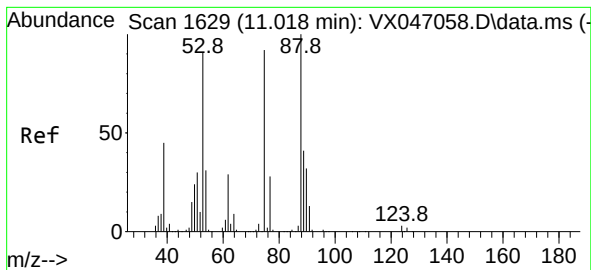
Tgt Ion: 75 Resp: 125222

Ion Ratio Lower Upper

75 100

77 1.4 21.6 65.0#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 65.891 ug/l
 RT: 11.079 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX047166.D
 Acq: 28 Jul 2025 15:28

Instrument :
 MSVOA_X
 ClientSampleId :
 RT-5417

Tgt Ion: 75 Resp: 125222
 Ion Ratio Lower Upper
 75 100
 53 0.0 84.2 126.4#
 89 0.0 36.0 54.0#

