

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
 Data File : VX047413.D
 Acq On : 19 Aug 2025 15:32
 Operator : JC/MD
 Sample : Q2815-21
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TW-11M-E

Quant Time: Aug 20 01:27:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 04:18:28 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.568	168	212215	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	432856	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	449898	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	233636	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	183303	61.718	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	123.440%#
35) Dibromofluoromethane	5.397	113	148199	52.753	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	105.500%
50) Toluene-d8	8.653	98	509829	50.774	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	101.540%
62) 4-Bromofluorobenzene	11.079	95	215430	58.140	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	116.280%

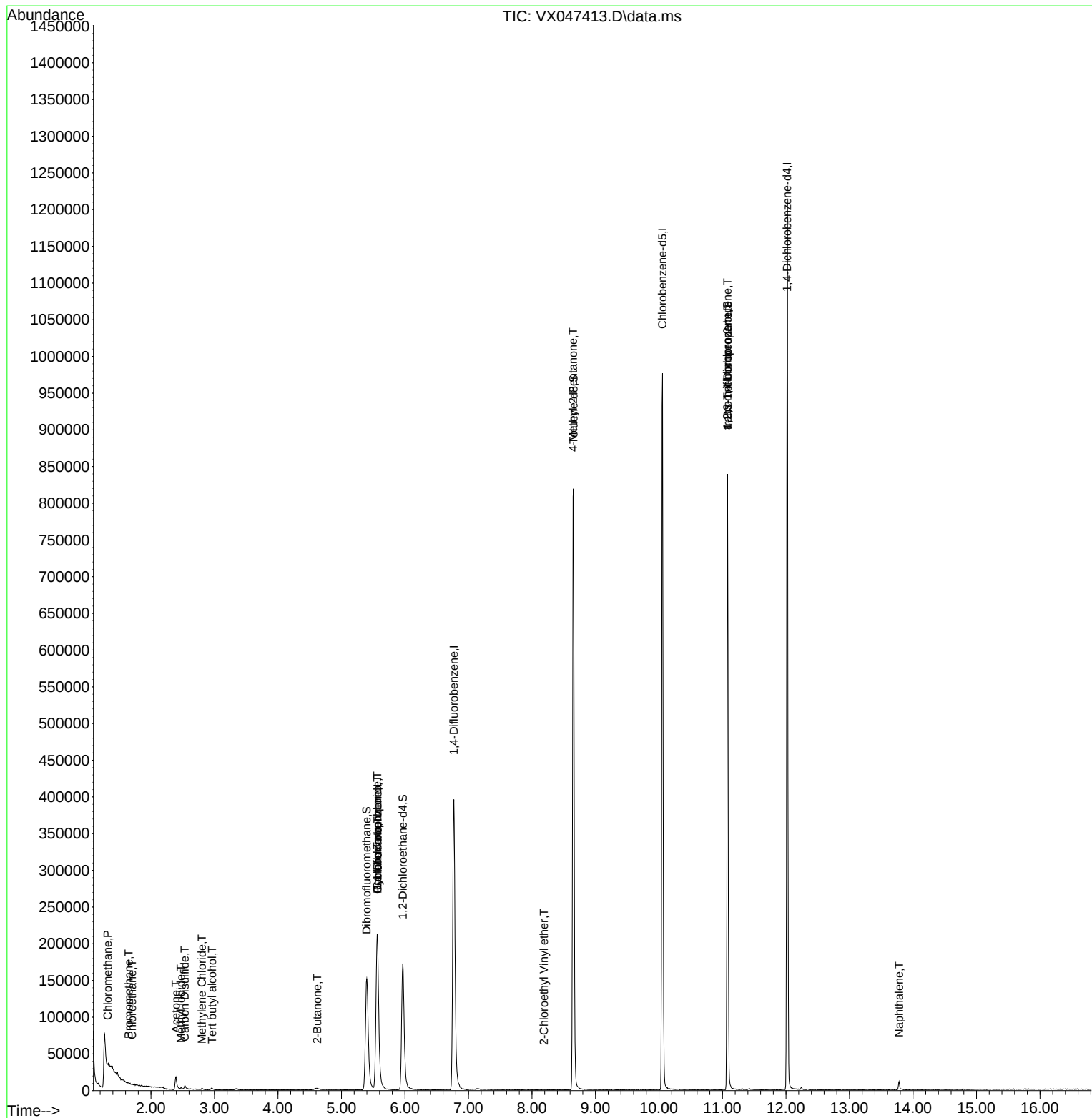
Target Compounds						Qvalue
3) Chloromethane	1.319	50	996	0.409	ug/l #	41
5) Bromomethane	1.648	94	340	0.276	ug/l #	48
6) Chloroethane	1.703	64	743	0.398	ug/l #	56
10) Methyl Iodide	2.471	142	2051	0.457	ug/l #	88
11) Tert butyl alcohol	2.965	59	817	3.162	ug/l #	72
16) Acetone	2.392	43	23805	21.324	ug/l	100
17) Carbon Disulfide	2.532	76	4582	0.568	ug/l	96
20) Methylene Chloride	2.800	84	720	0.244	ug/l #	90
25) 2-Butanone	4.617	43	5322	3.640	ug/l #	76
31) Cyclohexane	5.568	56	4242	0.887	ug/l #	21
36) 1,1-Dichloropropene	5.562	75	18102	4.082	ug/l #	50
38) Carbon Tetrachloride	5.562	117	22992	4.744	ug/l #	15
51) 4-Methyl-2-Pentanone	8.647	43	2727	0.717	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.190	63	181	8.435	ug/l #	46
76) 1,2,3-Trichloropropane	11.079	75	113685	26.530	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.079	75	113685	105.046	ug/l #	7
95) Naphthalene	13.780	128	8267	0.533	ug/l	98

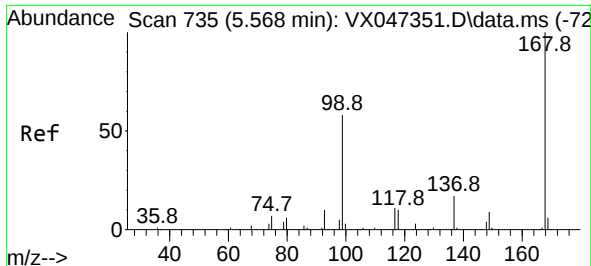
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_X
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TW-11M-E

Quant Time: Aug 20 01:27:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

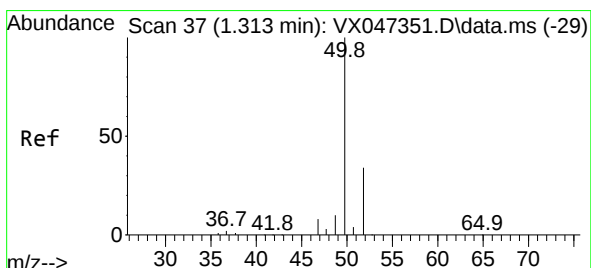
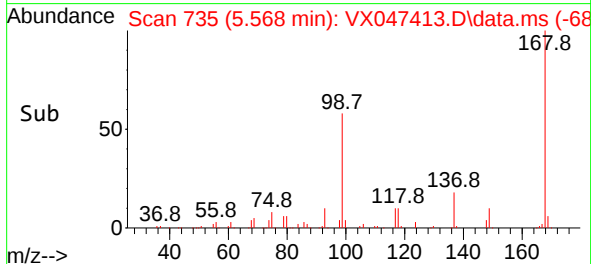
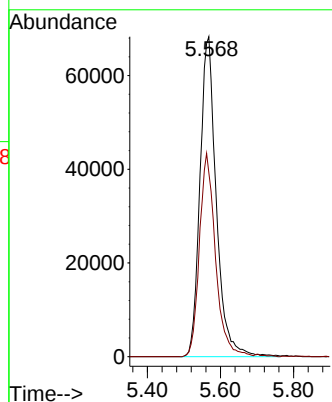
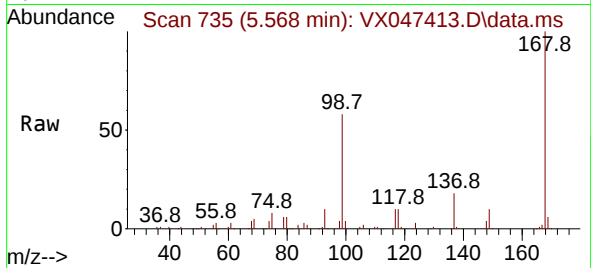




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX047413.D
Acq: 19 Aug 2025 15:32

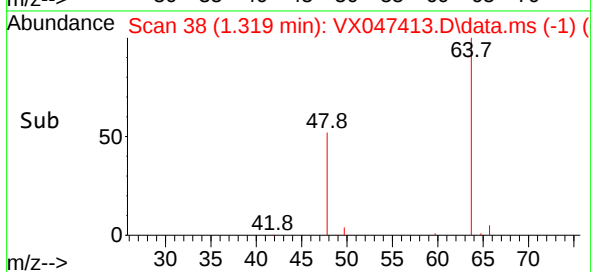
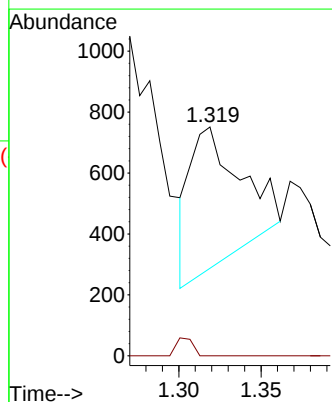
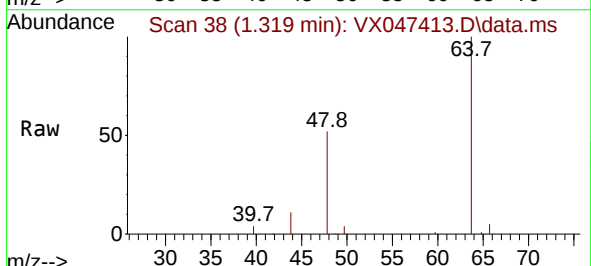
Instrument :
MSVOA_X
ClientSampleId :
TW-11M-E

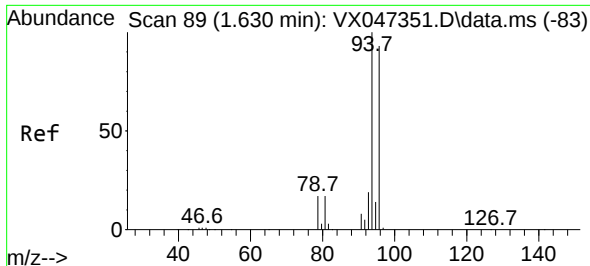
Tgt Ion:168 Resp: 212215
Ion Ratio Lower Upper
168 100
99 57.5 47.9 71.9



#3
Chloromethane
Concen: 0.409 ug/l
RT: 1.319 min Scan# 38
Delta R.T. 0.006 min
Lab File: VX047413.D
Acq: 19 Aug 2025 15:32

Tgt Ion: 50 Resp: 996
Ion Ratio Lower Upper
50 100
52 0.0 27.0 40.4#

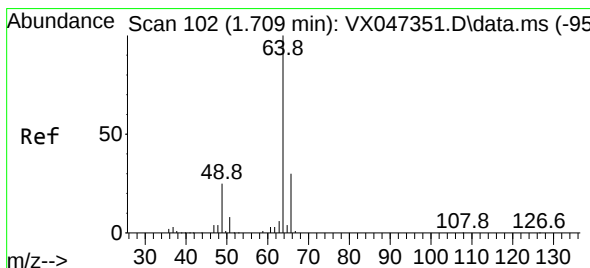
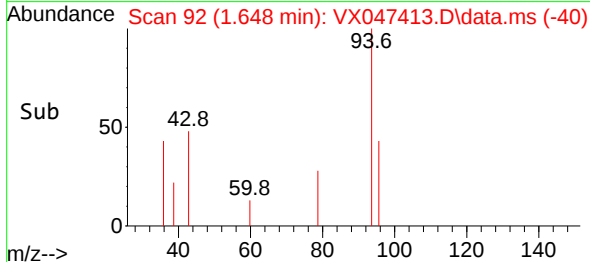
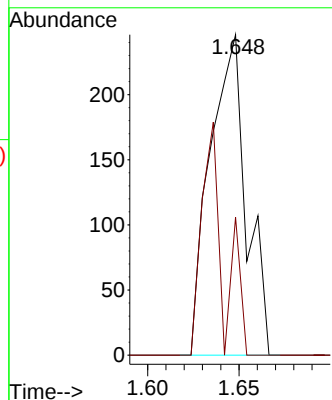
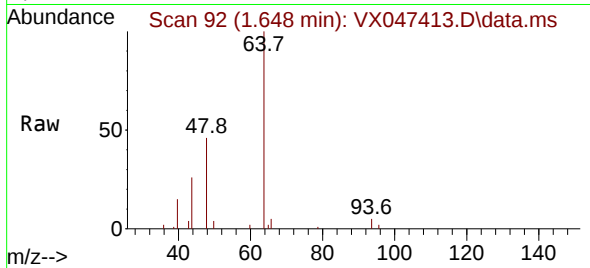




#5
Bromomethane
Concen: 0.276 ug/l
RT: 1.648 min Scan# 91
Delta R.T. 0.018 min
Lab File: VX047413.D
Acq: 19 Aug 2025 15:32

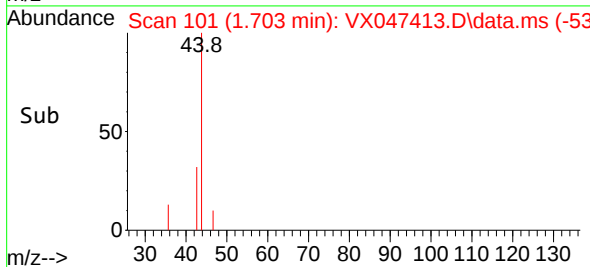
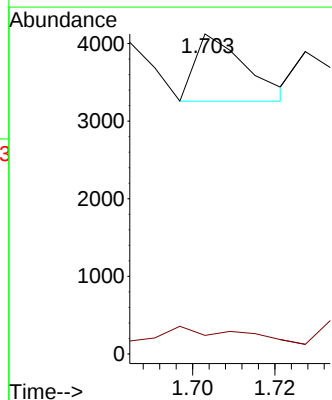
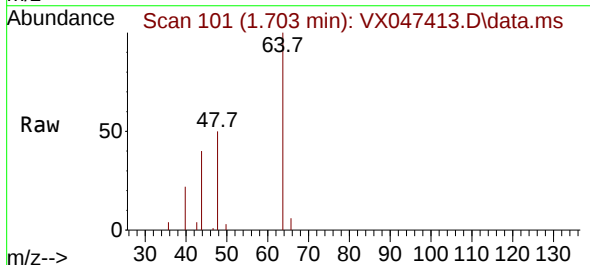
Instrument :
MSVOA_X
ClientSampleId :
TW-11M-E

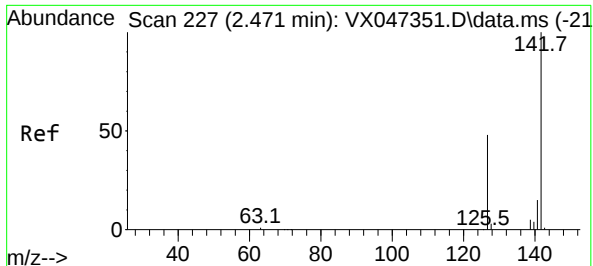
Tgt Ion: 94 Resp: 340
Ion Ratio Lower Upper
94 100
96 43.1 74.7 112.1#



#6
Chloroethane
Concen: 0.398 ug/l
RT: 1.703 min Scan# 101
Delta R.T. -0.006 min
Lab File: VX047413.D
Acq: 19 Aug 2025 15:32

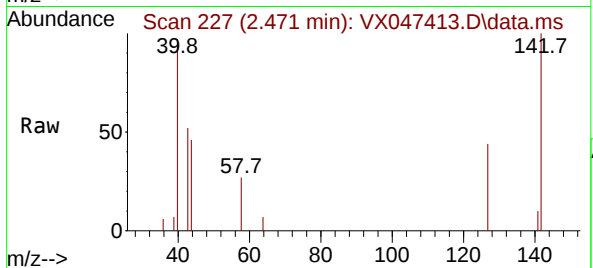
Tgt Ion: 64 Resp: 743
Ion Ratio Lower Upper
64 100
66 6.2 24.4 36.6#



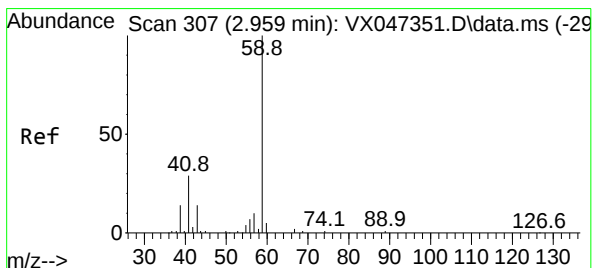
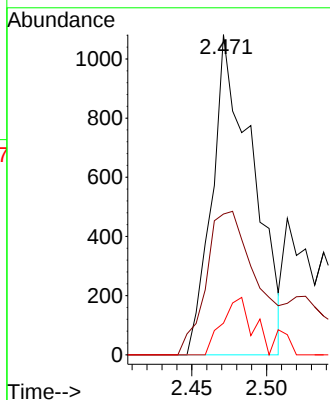
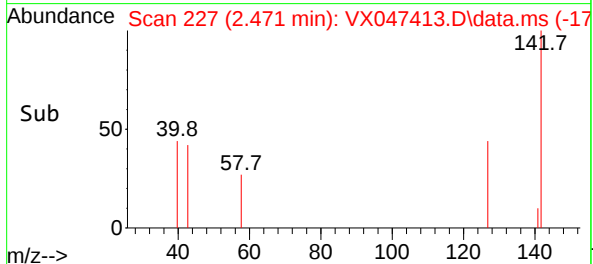


#10
Methyl Iodide
Concen: 0.457 ug/l
RT: 2.471 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX047413.D
Acq: 19 Aug 2025 15:32

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-E

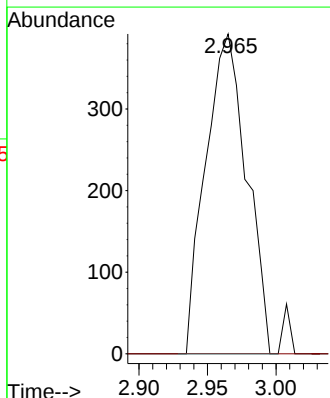
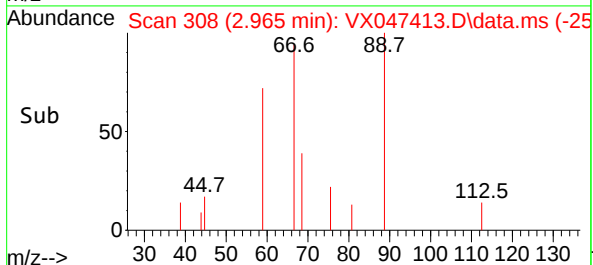
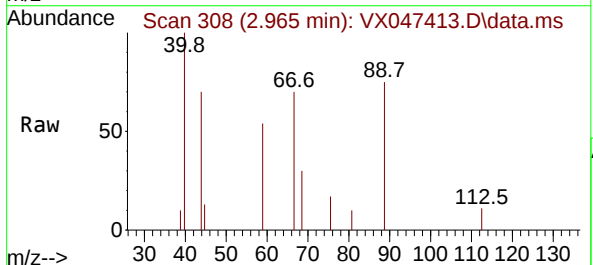


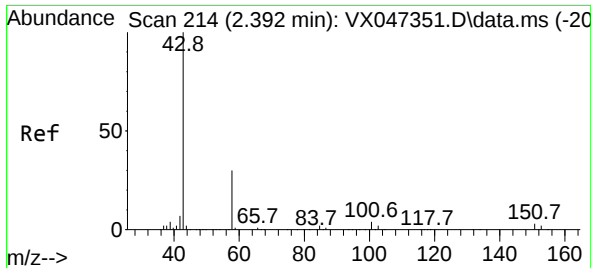
Tgt Ion:142 Resp: 2051
Ion Ratio Lower Upper
142 100
127 55.0 36.1 54.1#
141 13.3 11.1 16.7



#11
Tert butyl alcohol
Concen: 3.162 ug/l
RT: 2.965 min Scan# 308
Delta R.T. 0.006 min
Lab File: VX047413.D
Acq: 19 Aug 2025 15:32

Tgt Ion: 59 Resp: 817
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

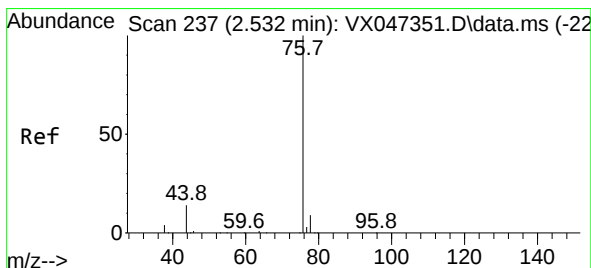
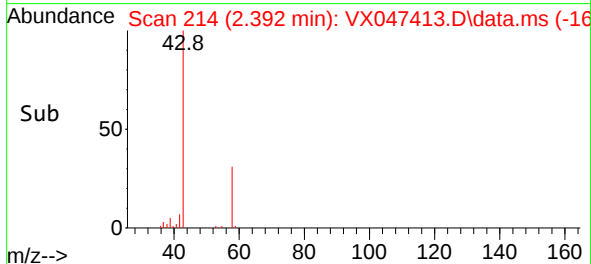
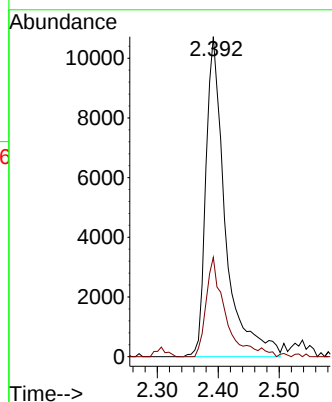
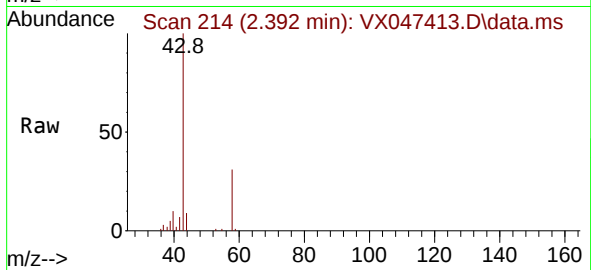




#16
Acetone
Concen: 21.324 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX047413.D
Acq: 19 Aug 2025 15:32

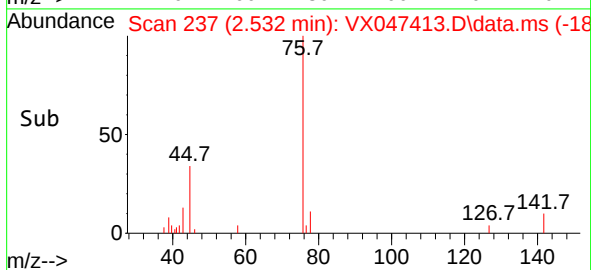
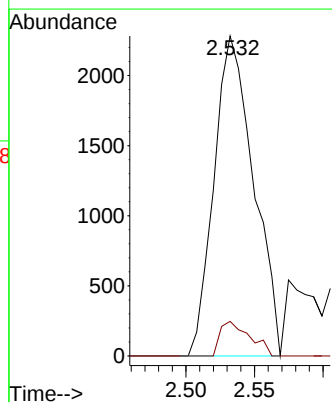
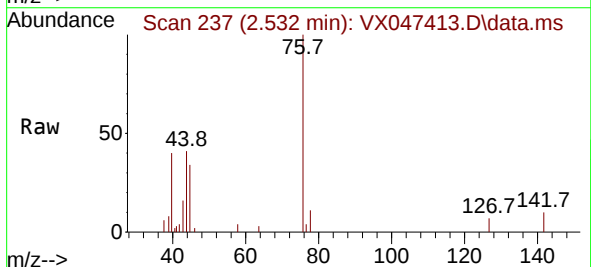
Instrument :
MSVOA_X
ClientSampleId :
TW-11M-E

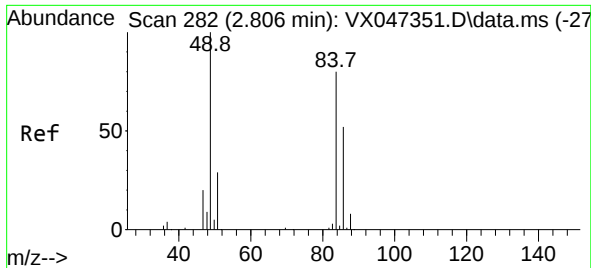
Tgt Ion: 43 Resp: 23805
Ion Ratio Lower Upper
43 100
58 31.0 24.8 37.2



#17
Carbon Disulfide
Concen: 0.568 ug/l
RT: 2.532 min Scan# 237
Delta R.T. 0.000 min
Lab File: VX047413.D
Acq: 19 Aug 2025 15:32

Tgt Ion: 76 Resp: 4582
Ion Ratio Lower Upper
76 100
78 10.4 7.2 10.8

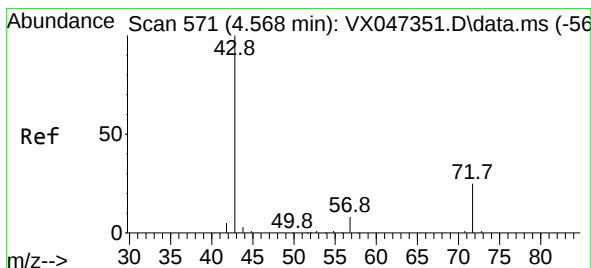
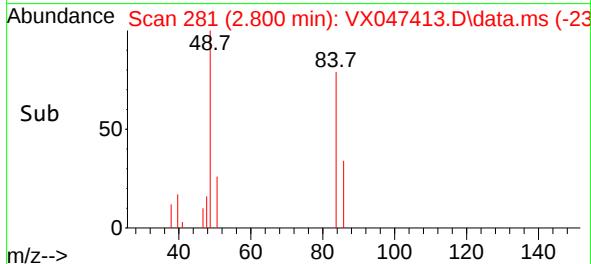
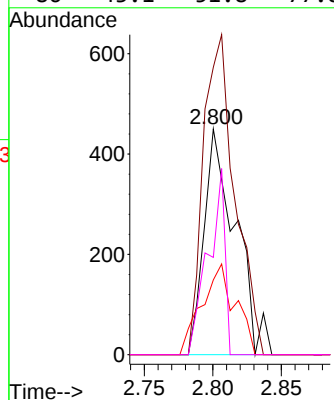
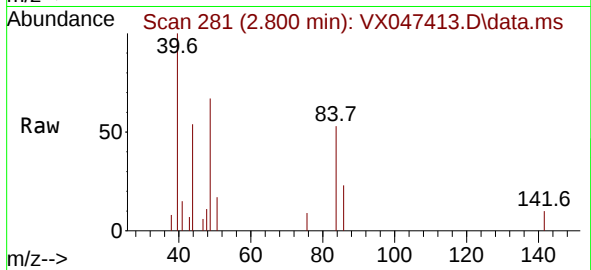




#20
Methylene Chloride
Concen: 0.244 ug/l
RT: 2.800 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX047413.D
Acq: 19 Aug 2025 15:32

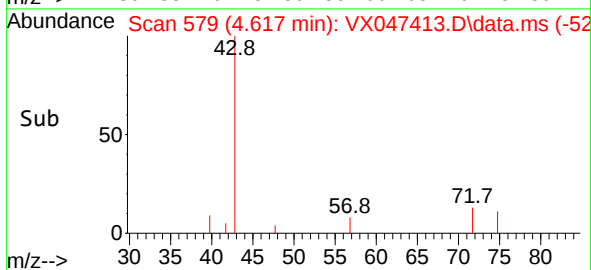
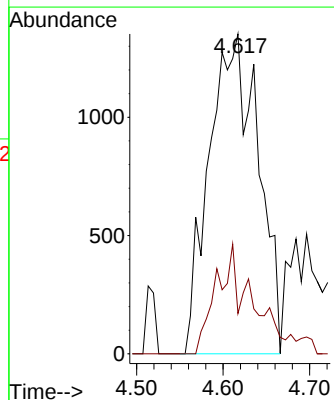
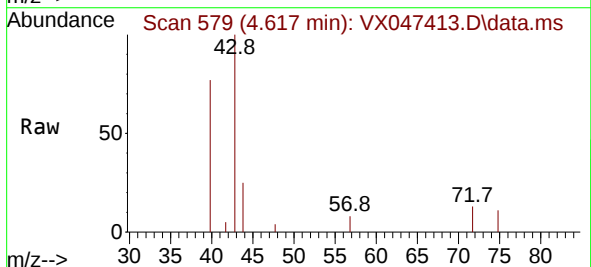
Instrument :
MSVOA_X
ClientSampleId :
TW-11M-E

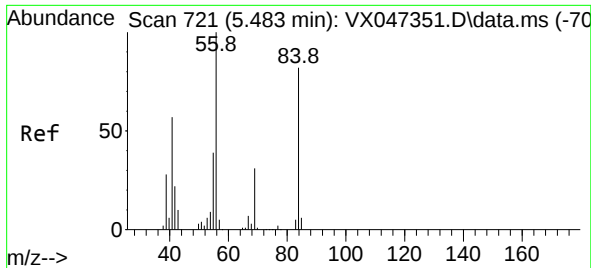
Tgt Ion:	84	Resp:	720
Ion	Ratio	Lower	Upper
84	100		
49	127.3	100.1	150.1
51	33.1	29.5	44.3
86	43.1	51.8	77.8



#25
2-Butanone
Concen: 3.640 ug/l
RT: 4.617 min Scan# 579
Delta R.T. 0.049 min
Lab File: VX047413.D
Acq: 19 Aug 2025 15:32

Tgt Ion:	43	Resp:	5322
Ion	Ratio	Lower	Upper
43	100		
72	12.6	19.8	29.8

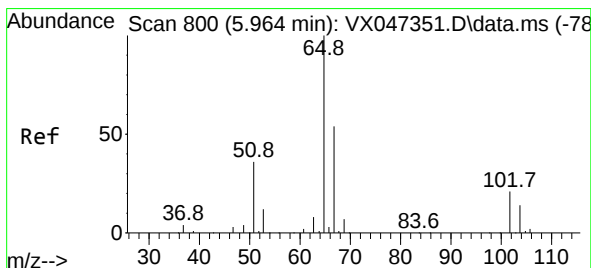
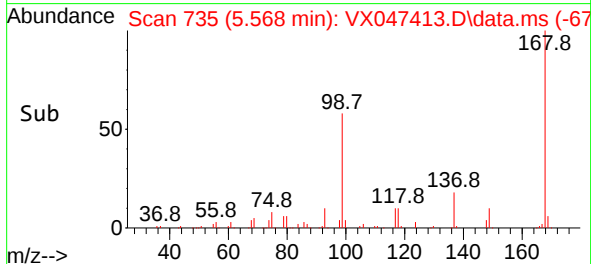
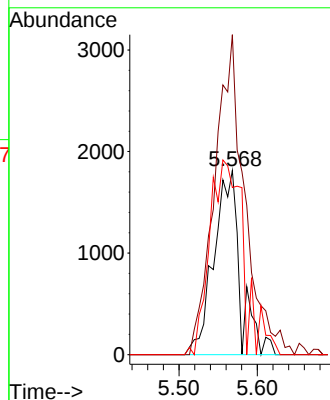
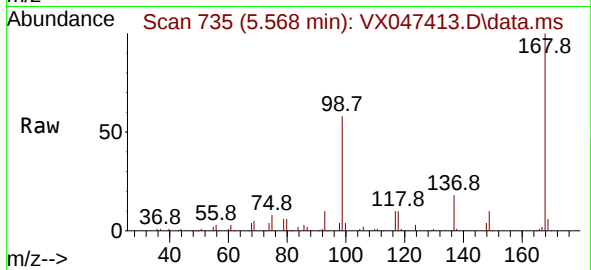




#31
Cyclohexane
Concen: 0.887 ug/l
RT: 5.568 min Scan# 71
Delta R.T. 0.086 min
Lab File: VX047413.D
Acq: 19 Aug 2025 15:32

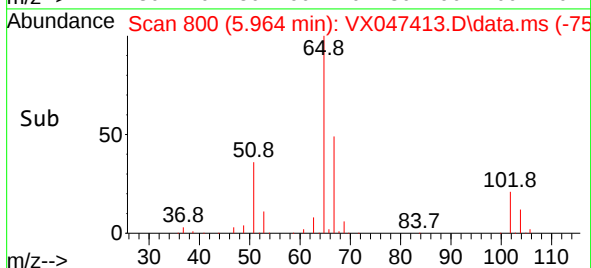
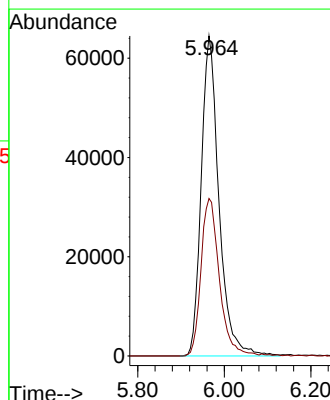
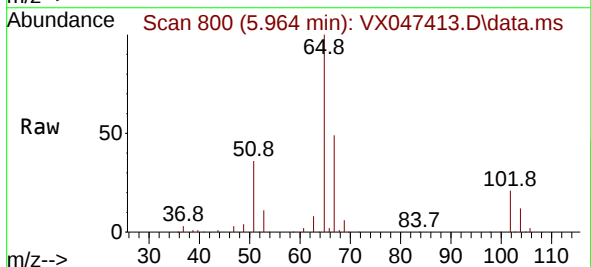
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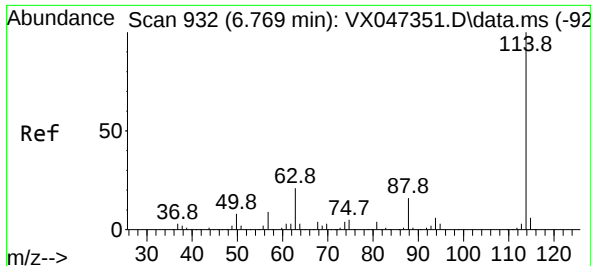
Tgt Ion: 56 Resp: 4242
Ion Ratio Lower Upper
56 100
69 173.8 24.3 36.5#
84 90.8 65.3 97.9



#33
1,2-Dichloroethane-d4
Concen: 61.718 ug/l
RT: 5.964 min Scan# 800
Delta R.T. 0.000 min
Lab File: VX047413.D
Acq: 19 Aug 2025 15:32

Tgt Ion: 65 Resp: 183303
Ion Ratio Lower Upper
65 100
67 51.0 0.0 106.0

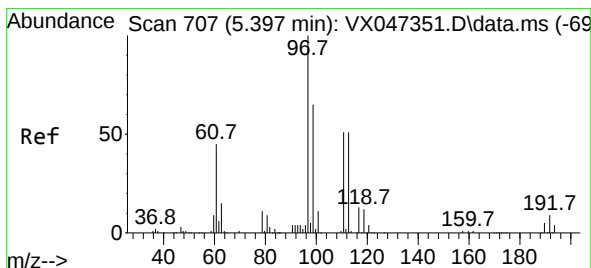
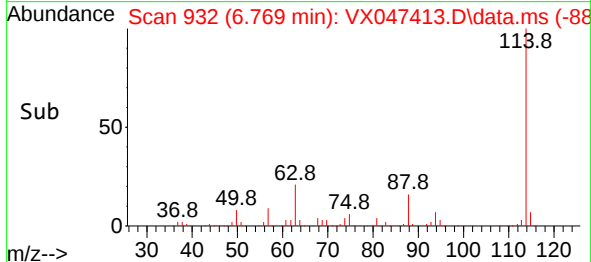
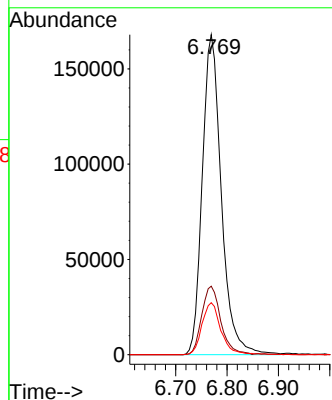
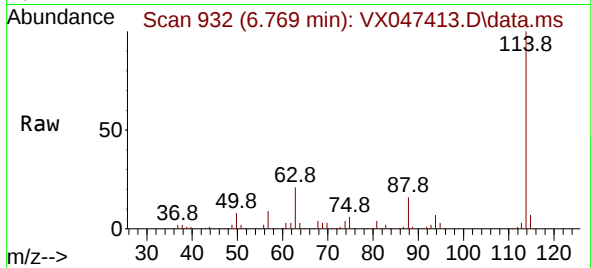




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 911
Delta R.T. 0.000 min
Lab File: VX047413.D
Acq: 19 Aug 2025 15:32

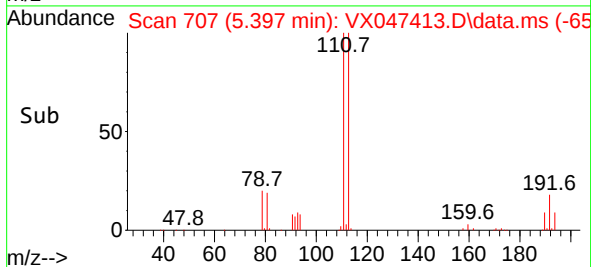
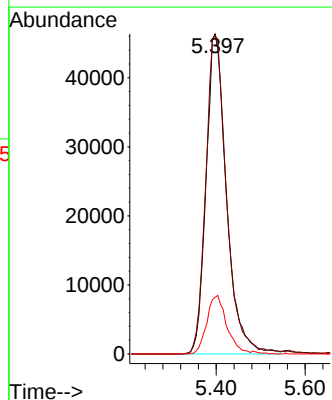
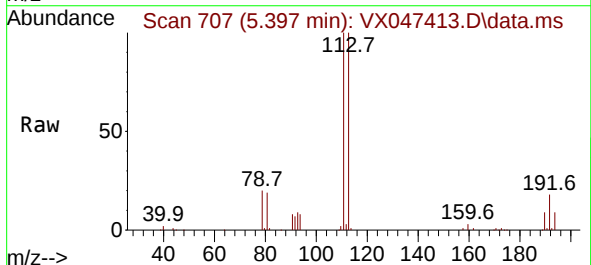
Instrument :
MSVOA_X
ClientSampleId :
TW-11M-E

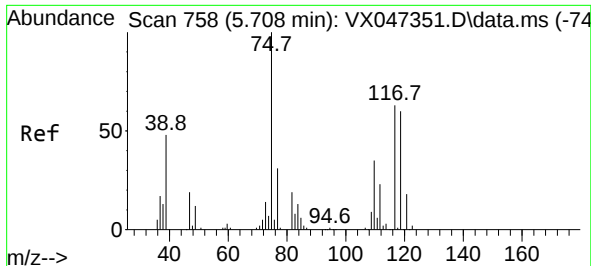
Tgt Ion:114 Resp: 432856
Ion Ratio Lower Upper
114 100
63 21.4 0.0 42.4
88 16.2 0.0 33.0



#35
Dibromofluoromethane
Concen: 52.753 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX047413.D
Acq: 19 Aug 2025 15:32

Tgt Ion:113 Resp: 148199
Ion Ratio Lower Upper
113 100
111 101.2 81.4 122.2
192 17.8 14.1 21.1

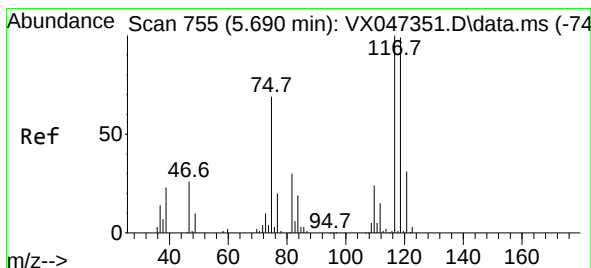
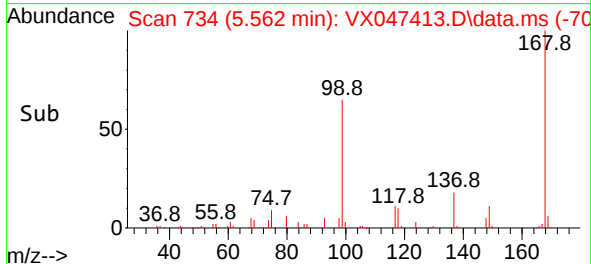
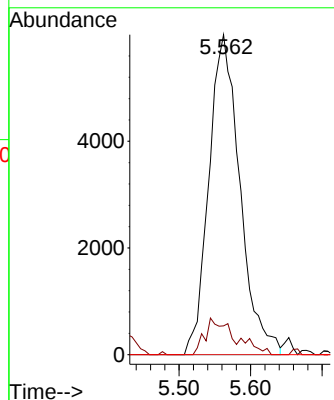
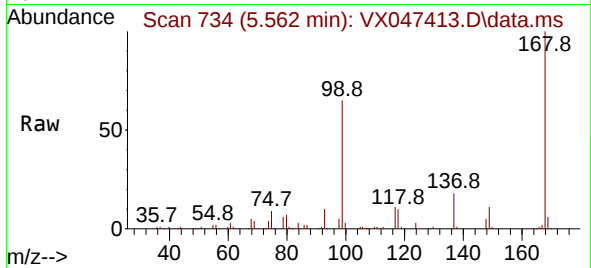




#36
1,1-Dichloropropene
Concen: 4.082 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.146 min
Lab File: VX047413.D
Acq: 19 Aug 2025 15:32

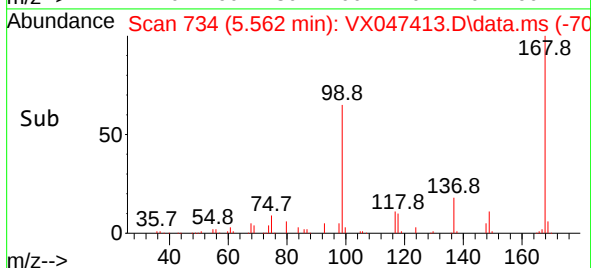
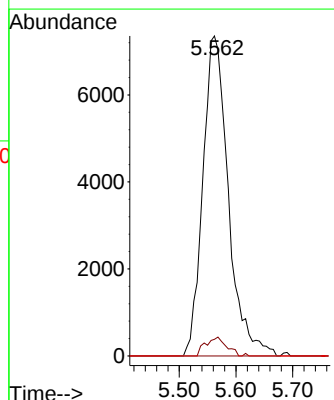
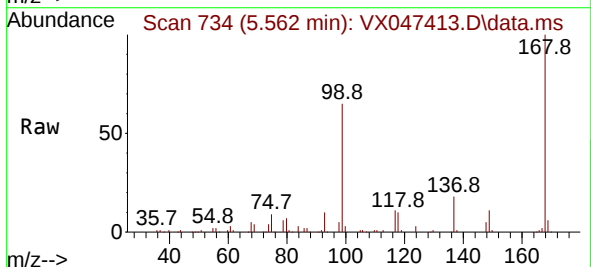
Instrument :
MSVOA_X
ClientSampleId :
TW-11M-E

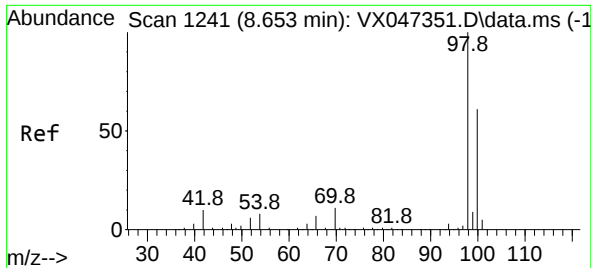
Tgt Ion: 75 Resp: 18102
Ion Ratio Lower Upper
75 100
110 8.5 17.4 52.2#
77 0.0 24.4 36.6#



#38
Carbon Tetrachloride
Concen: 4.744 ug/l
RT: 5.562 min Scan# 734
Delta R.T. -0.128 min
Lab File: VX047413.D
Acq: 19 Aug 2025 15:32

Tgt Ion: 117 Resp: 22992
Ion Ratio Lower Upper
117 100
119 5.2 78.5 117.7#
121 0.0 24.7 37.1#

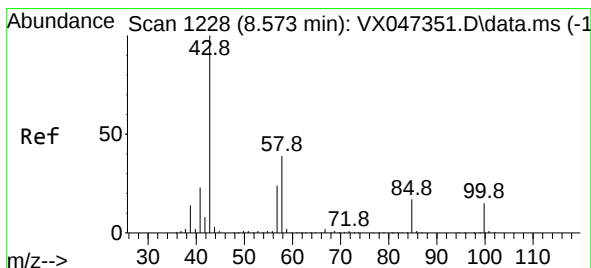
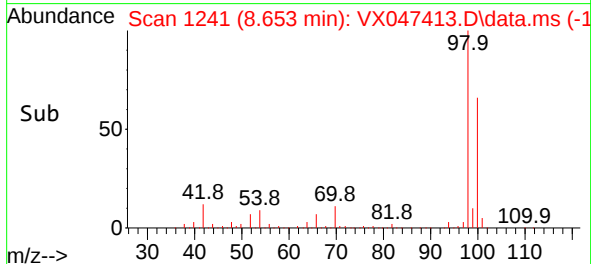
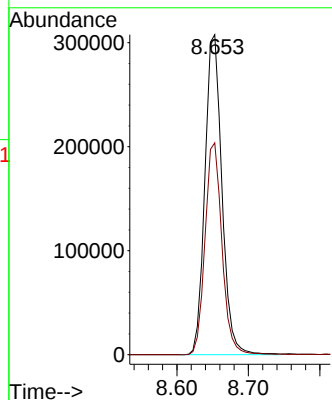
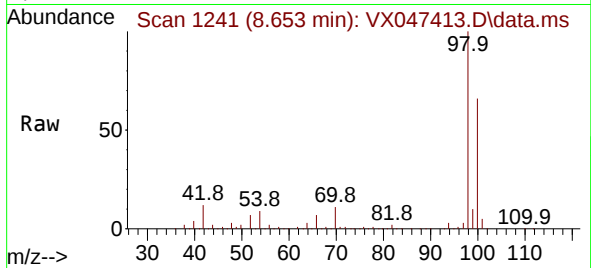




#50
Toluene-d8
Concen: 50.774 ug/l
RT: 8.653 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047413.D
Acq: 19 Aug 2025 15:32

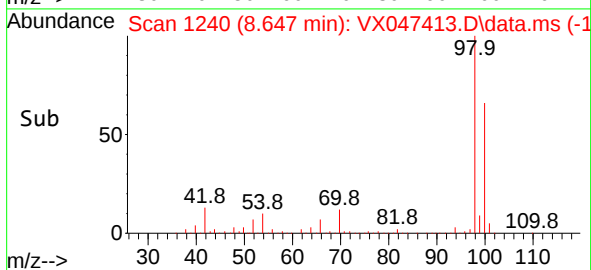
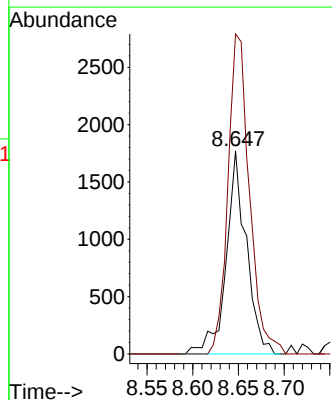
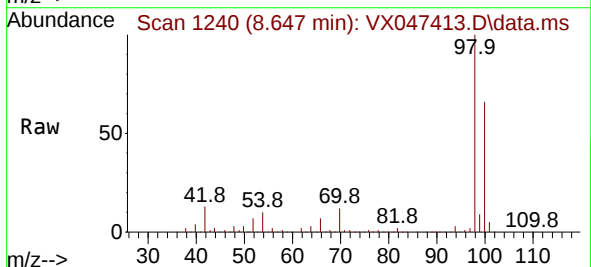
Instrument :
MSVOA_X
ClientSampleId :
TW-11M-E

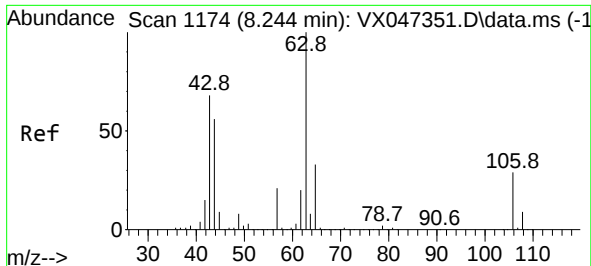
Tgt Ion: 98 Resp: 509829
Ion Ratio Lower Upper
98 100
100 65.8 53.9 80.9



#51
4-Methyl-2-Pentanone
Concen: 0.717 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.073 min
Lab File: VX047413.D
Acq: 19 Aug 2025 15:32

Tgt Ion: 43 Resp: 2727
Ion Ratio Lower Upper
43 100
58 167.5 31.2 46.8#

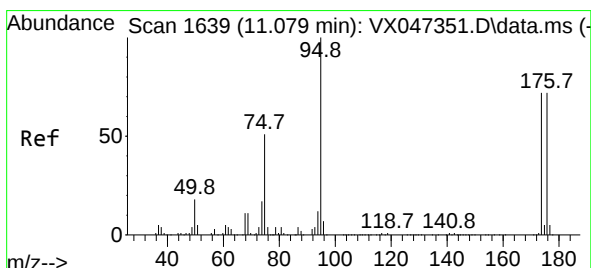
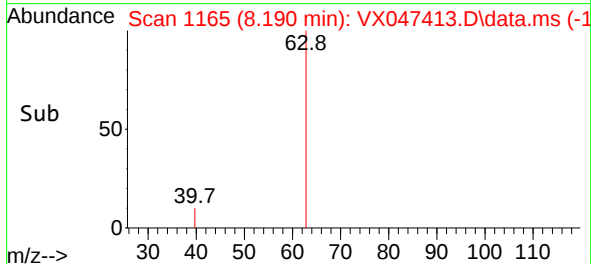
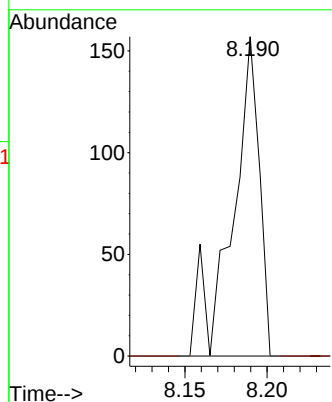
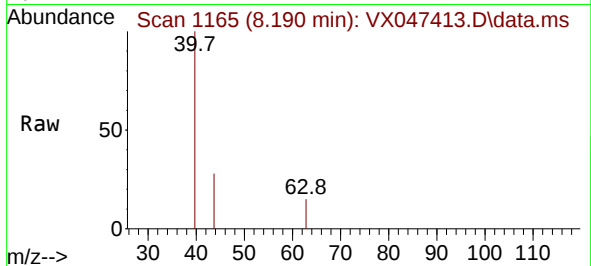




#58
2-Chloroethyl Vinyl ether
Concen: 8.435 ug/l
RT: 8.190 min Scan# 1165
Delta R.T. -0.055 min
Lab File: VX047413.D
Acq: 19 Aug 2025 15:32

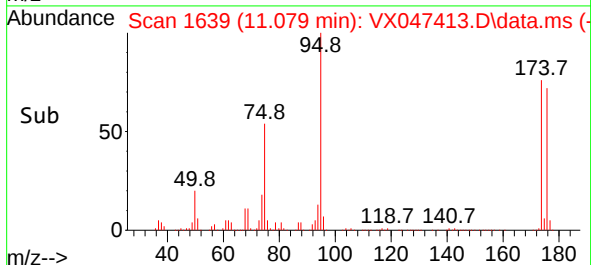
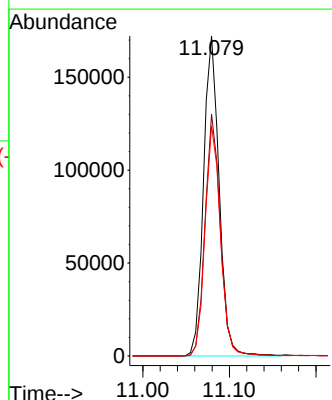
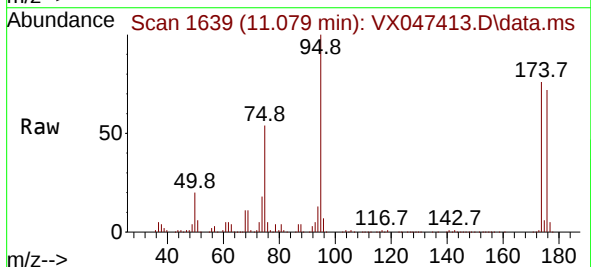
Instrument :
MSVOA_X
ClientSampleId :
TW-11M-E

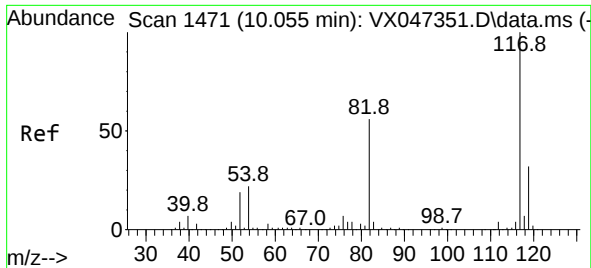
Tgt Ion: 63 Resp: 181
Ion Ratio Lower Upper
63 100
106 0.0 22.8 34.2#



#62
4-Bromofluorobenzene
Concen: 58.140 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047413.D
Acq: 19 Aug 2025 15:32

Tgt Ion: 95 Resp: 215430
Ion Ratio Lower Upper
95 100
174 74.2 0.0 148.0
176 71.3 0.0 145.4

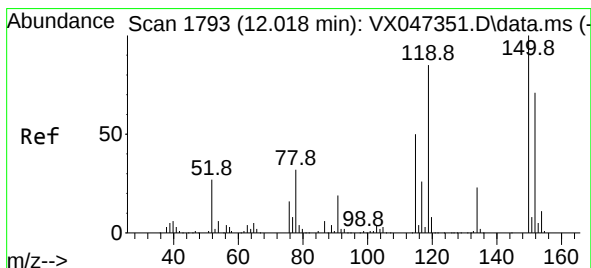
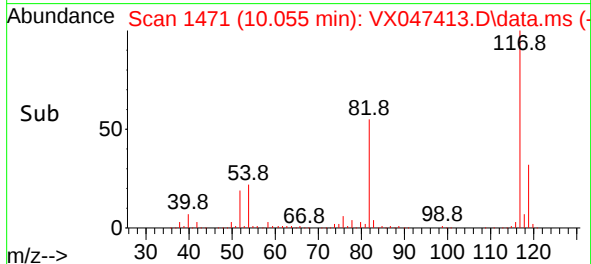
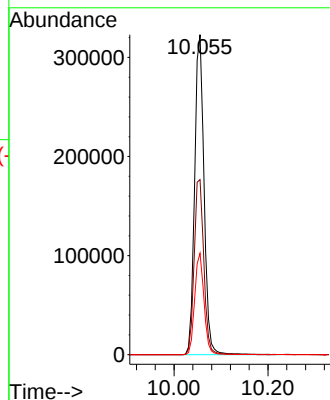
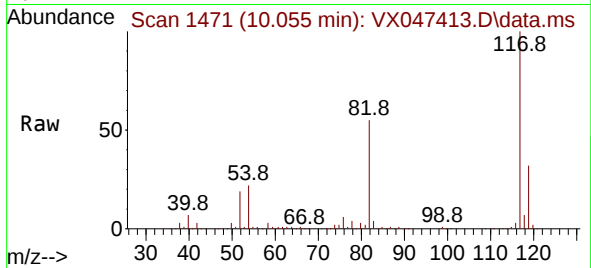




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047413.D
Acq: 19 Aug 2025 15:32

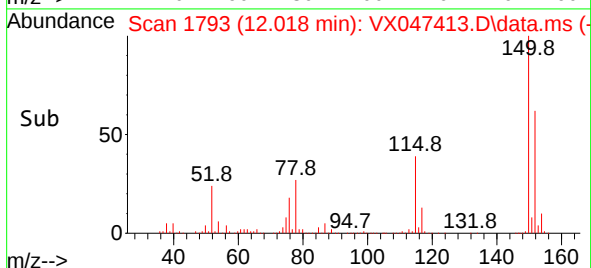
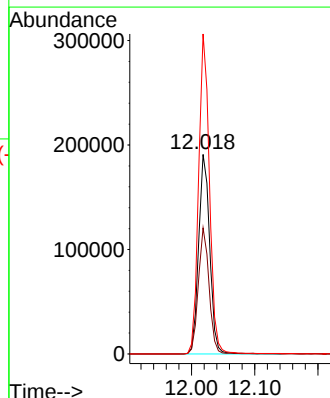
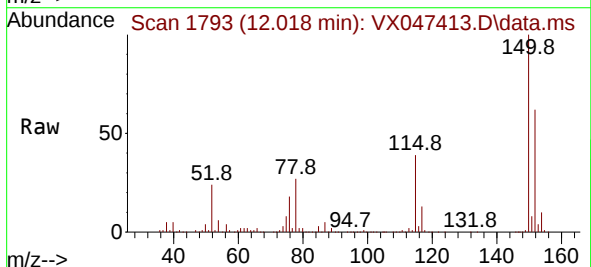
Instrument :
MSVOA_X
ClientSampleId :
TW-11M-E

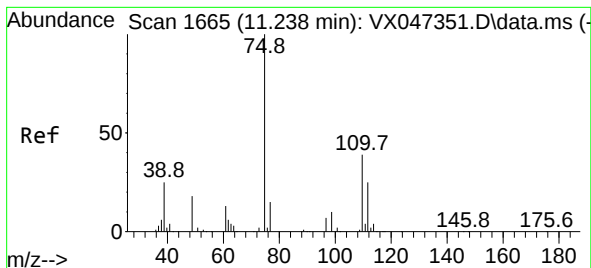
Tgt Ion:117 Resp: 449898
Ion Ratio Lower Upper
117 100
82 54.7 45.0 67.4
119 31.7 25.8 38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047413.D
Acq: 19 Aug 2025 15:32

Tgt Ion:152 Resp: 233636
Ion Ratio Lower Upper
152 100
115 61.4 44.6 133.8
150 157.3 0.0 349.8

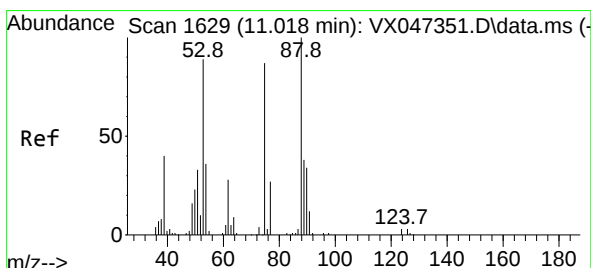
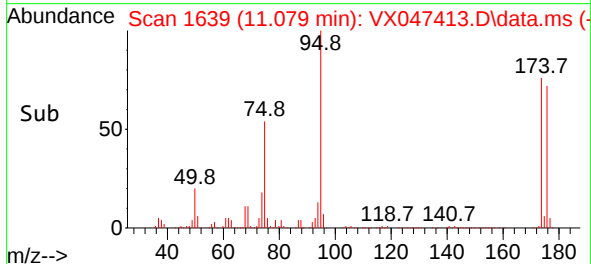
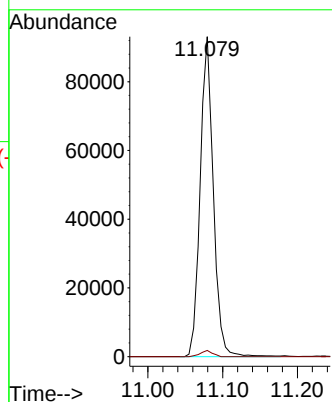
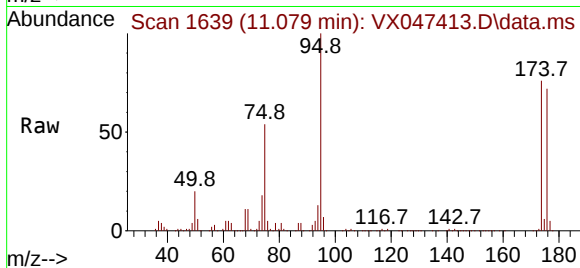




#76
1,2,3-Trichloropropane
Concen: 26.530 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.158 min
Lab File: VX047413.D
Acq: 19 Aug 2025 15:32

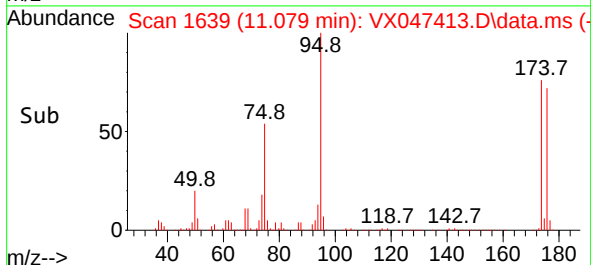
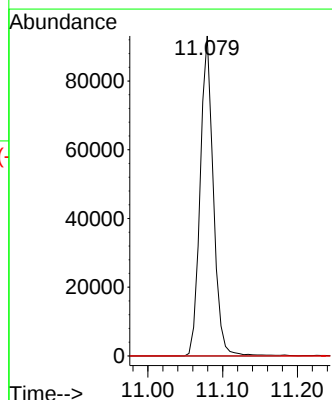
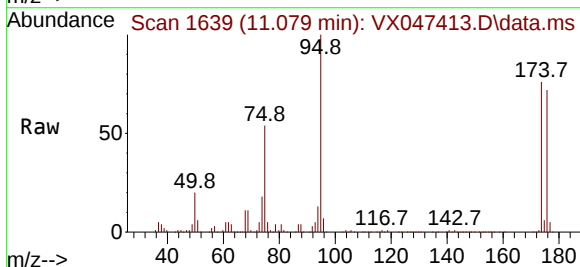
Instrument :
MSVOA_X
ClientSampleId :
TW-11M-E

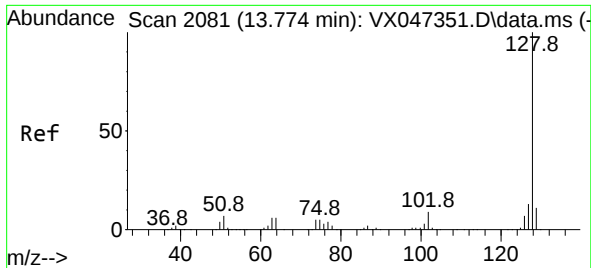
Tgt Ion: 75 Resp: 113685
Ion Ratio Lower Upper
75 100
77 1.8 19.4 58.2#



#81
trans-1,4-Dichloro-2-butene
Concen: 105.046 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX047413.D
Acq: 19 Aug 2025 15:32

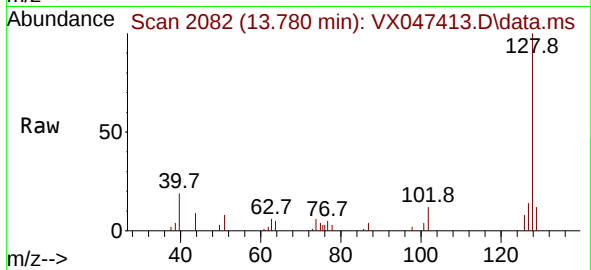
Tgt Ion: 75 Resp: 113685
Ion Ratio Lower Upper
75 100
53 0.0 85.2 127.8#
89 0.0 36.7 55.1#





#95
Naphthalene
Concen: 0.533 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. 0.006 min
Lab File: VX047413.D
Acq: 19 Aug 2025 15:32

Instrument :
MSVOA_X
ClientSampleId :
TW-11M-E



Tgt Ion:	128	Resp:	8267
Ion	Ratio	Lower	Upper
128	100		
127	12.0	10.1	15.1
129	9.8	8.7	13.1

