

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102325\
 Data File : VX048315.D
 Acq On : 23 Oct 2025 11:26
 Operator : JC/MD
 Sample : PB170203TB
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 24 05:41:21 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

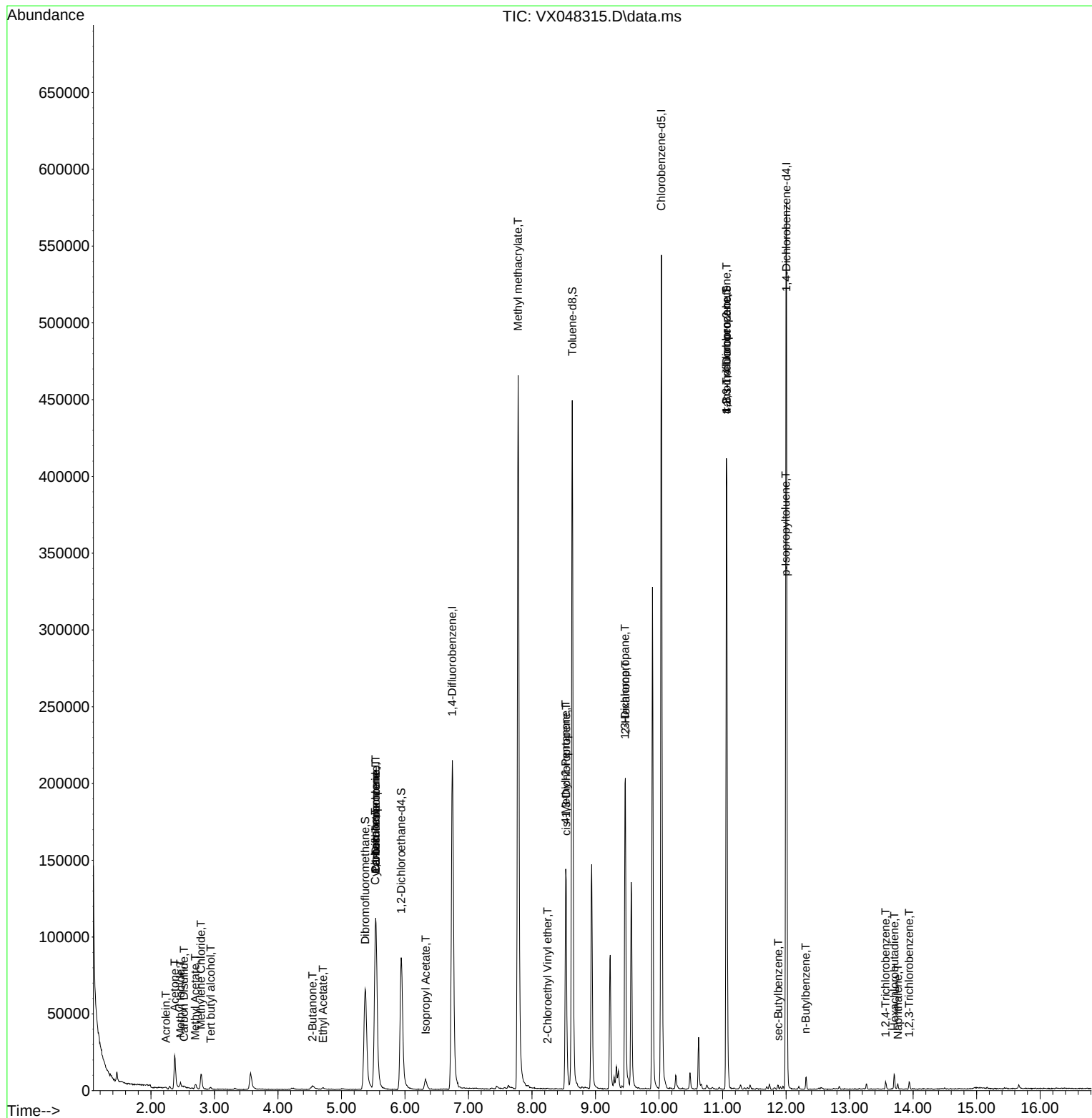
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

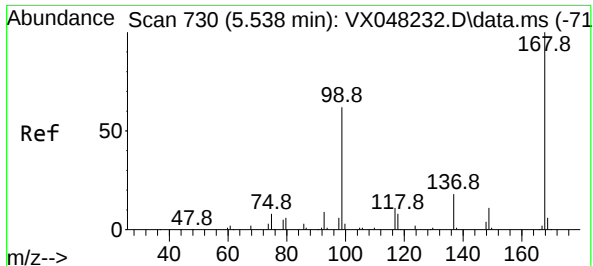
Internal Standards						
1) Pentafluorobenzene	5.537	168	109241	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.744	114	228380	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.036	117	242932	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	117869	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	96337	62.898	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 125.800%#	
35) Dibromofluoromethane	5.373	113	63910	40.991	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 81.980%	
50) Toluene-d8	8.634	98	266865	48.832	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 97.660%	
62) 4-Bromofluorobenzene	11.061	95	115532	55.570	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 111.140%	
Target Compounds						
					Qvalue	
10) Methyl Iodide	2.465	142	3169	2.138	ug/l #	88
11) Tert butyl alcohol	2.940	59	110	0.723	ug/l #	72
13) Acrolein	2.233	56	132	0.851	ug/l #	72
16) Acetone	2.373	43	29029	55.247	ug/l	99
17) Carbon Disulfide	2.520	76	1219	0.337	ug/l #	75
18) Methyl Acetate	2.696	43	4367	3.980	ug/l	96
20) Methylene Chloride	2.788	84	4788	3.740	ug/l	96
25) 2-Butanone	4.544	43	1688	2.538	ug/l #	83
31) Cyclohexane	5.531	56	2527	1.329	ug/l #	17
36) 1,1-Dichloropropene	5.537	75	9995	4.510	ug/l #	48
37) Ethyl Acetate	4.708	43	2489	1.355	ug/l #	81
38) Carbon Tetrachloride	5.537	117	11999	4.389	ug/l #	16
43) Isopropyl Acetate	6.324	43	9388	3.112	ug/l #	93
48) Methyl methacrylate	7.781	41	46123	30.294	ug/l #	47
51) 4-Methyl-2-Pentanone	8.531	43	55092	31.669	ug/l #	51
54) cis-1,3-Dichloropropene	8.537	75	23470	8.773	ug/l #	63
57) 1,3-Dichloropropane	9.463	76	1939	0.747	ug/l #	43
58) 2-Chloroethyl Vinyl ether	8.244	63	119	1.796	ug/l #	47
59) 2-Hexanone	9.470	43	27243	22.459	ug/l #	53
76) 1,2,3-Trichloropropane	11.061	75	63002	32.961	ug/l #	33
81) trans-1,4-Dichloro-2-b...	11.061	75	63002	80.190	ug/l #	10
85) sec-Butylbenzene	11.878	105	1834	0.208	ug/l	91
86) p-Isopropyltoluene	11.993	119	1800	0.236	ug/l #	67
89) n-Butylbenzene	12.310	91	2868	0.414	ug/l	92
93) 1,2,4-Trichlorobenzene	13.566	180	1257	0.486	ug/l	93
94) Hexachlorobutadiene	13.707	225	1330	1.438	ug/l	95
95) Naphthalene	13.761	128	2098	0.306	ug/l	97
96) 1,2,3-Trichlorobenzene	13.938	180	1127	0.475	ug/l	88

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

Instrument :
MSVOA_X
ClientSampleId :

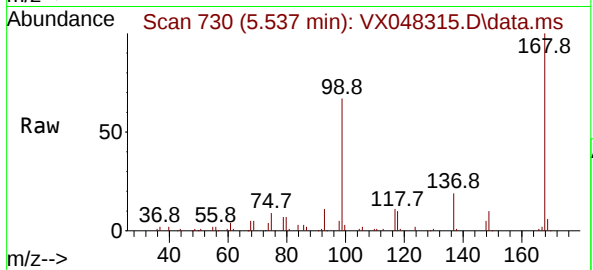
Instrument :
MSVOA_X
ClientSampleId :



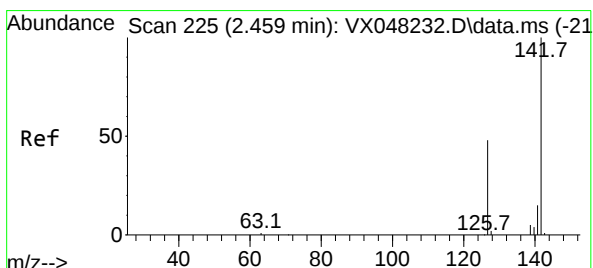
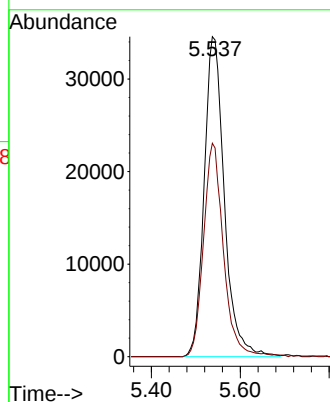
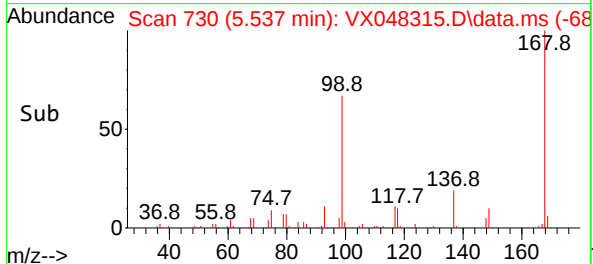


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 71
Delta R.T. -0.007 min
Lab File: VX048315.D
Acq: 23 Oct 2025 11:26

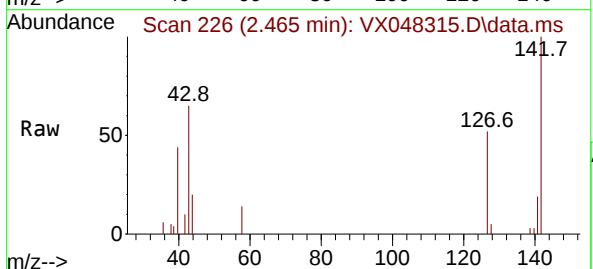
Instrument :
MSVOA_X
ClientSampleId :



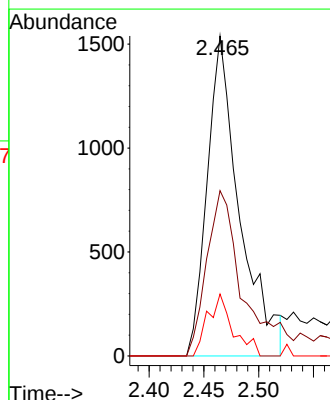
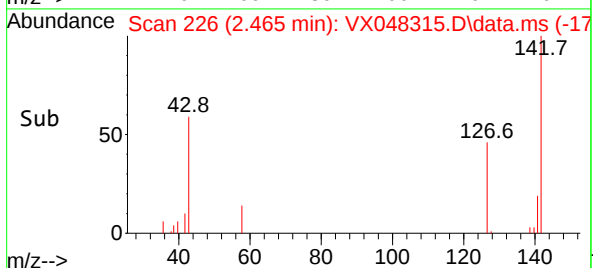
Tgt Ion:168 Resp: 109241
Ion Ratio Lower Upper
168 100
99 66.7 46.4 69.6

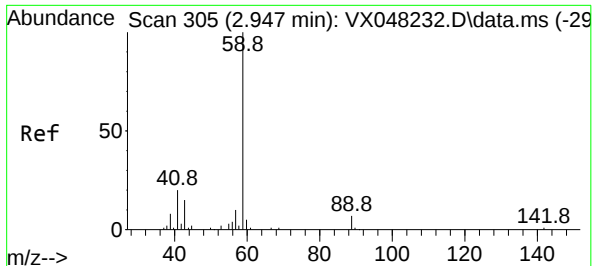


#10
Methyl Iodide
Concen: 2.138 ug/l
RT: 2.465 min Scan# 226
Delta R.T. 0.006 min
Lab File: VX048315.D
Acq: 23 Oct 2025 11:26



Tgt Ion:142 Resp: 3169
Ion Ratio Lower Upper
142 100
127 58.1 38.5 57.7#
141 15.1 11.6 17.4





#11

Tert butyl alcohol

Concen: 0.723 ug/l

RT: 2.940 min Scan# 305

Delta R.T. -0.000 min

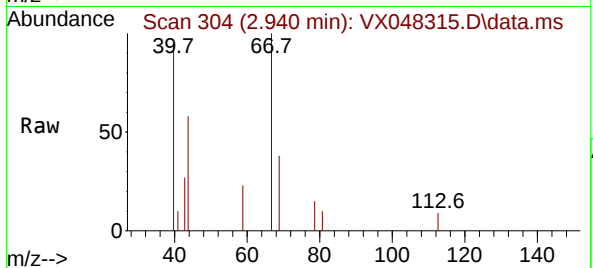
Lab File: VX048315.D

Acq: 23 Oct 2025 11:26

Instrument :

MSVOA_X

ClientSampleId :

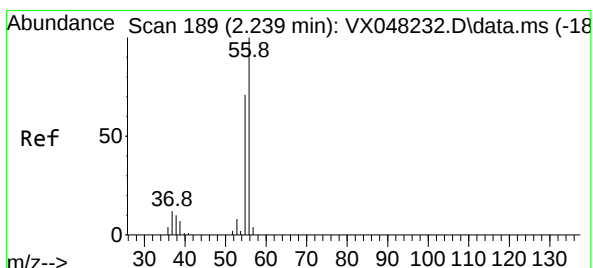
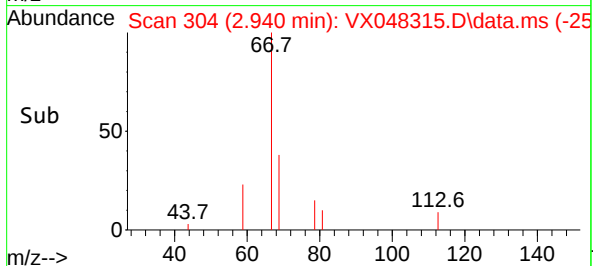
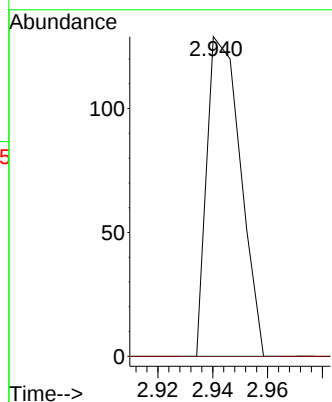


Tgt Ion: 59 Resp: 110

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



#13

Acrolein

Concen: 0.851 ug/l

RT: 2.233 min Scan# 188

Delta R.T. -0.000 min

Lab File: VX048315.D

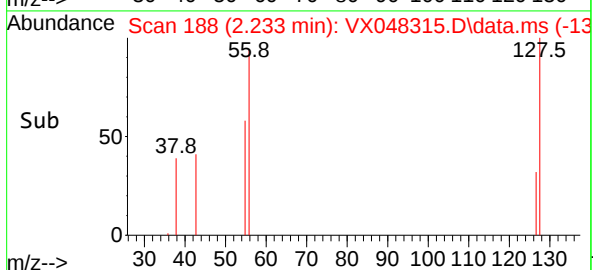
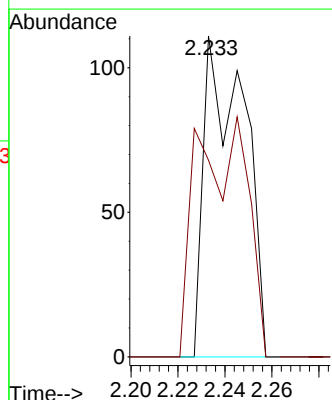
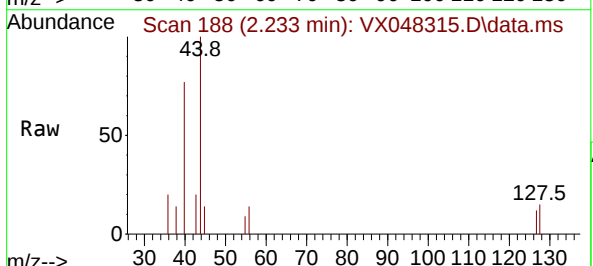
Acq: 23 Oct 2025 11:26

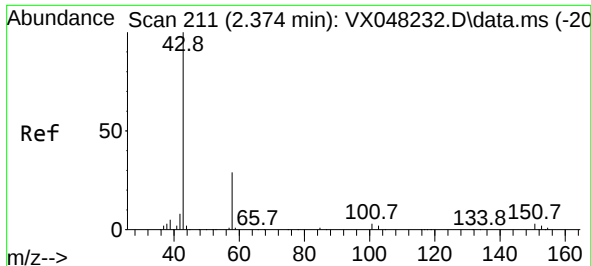
Tgt Ion: 56 Resp: 132

Ion Ratio Lower Upper

56 100

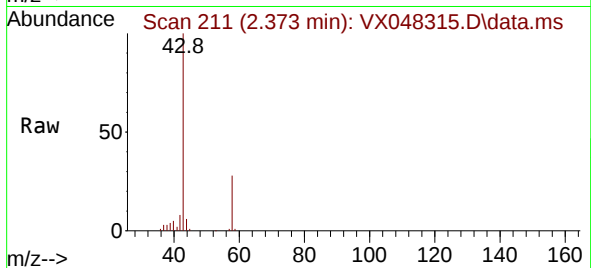
55 93.2 56.1 84.1#



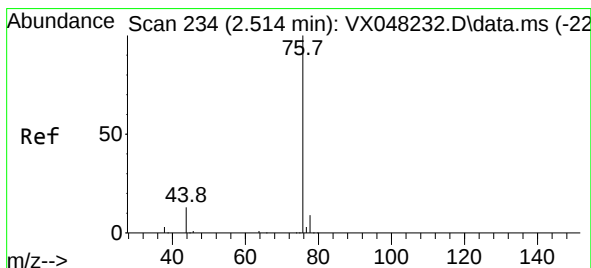
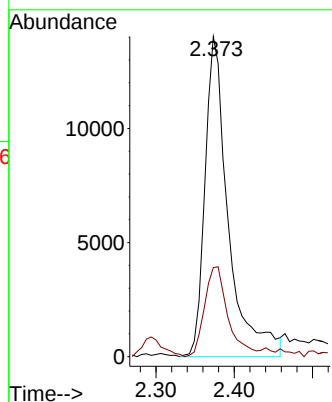
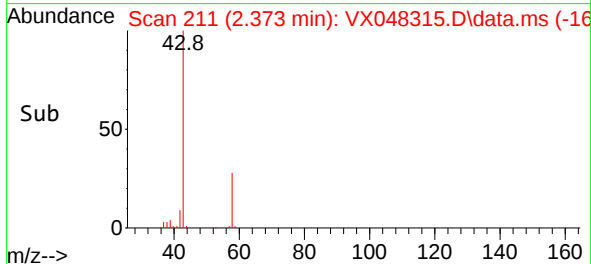


#16
Acetone
Concen: 55.247 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX048315.D
Acq: 23 Oct 2025 11:26

Instrument :
MSVOA_X
ClientSampleId :

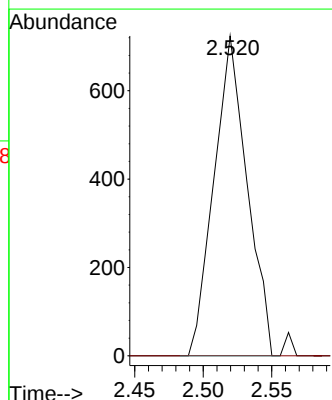
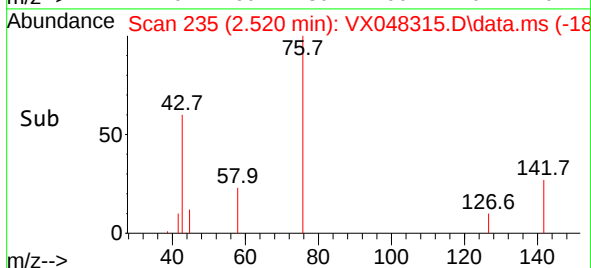
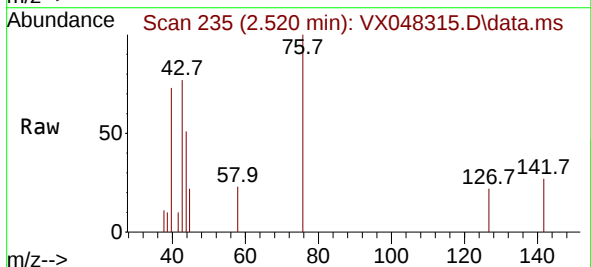


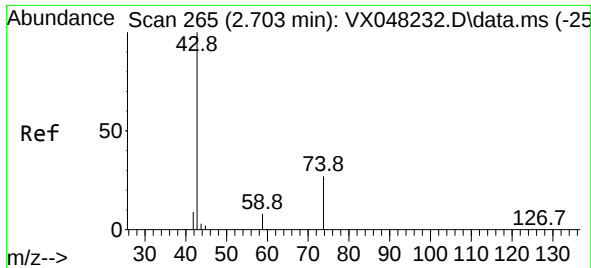
Tgt Ion: 43 Resp: 29029
Ion Ratio Lower Upper
43 100
58 28.7 23.4 35.2



#17
Carbon Disulfide
Concen: 0.337 ug/l
RT: 2.520 min Scan# 235
Delta R.T. 0.006 min
Lab File: VX048315.D
Acq: 23 Oct 2025 11:26

Tgt Ion: 76 Resp: 1219
Ion Ratio Lower Upper
76 100
78 0.0 7.1 10.7#

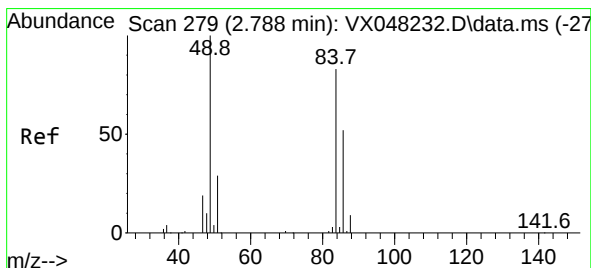
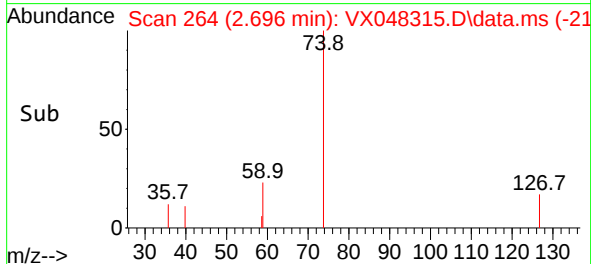
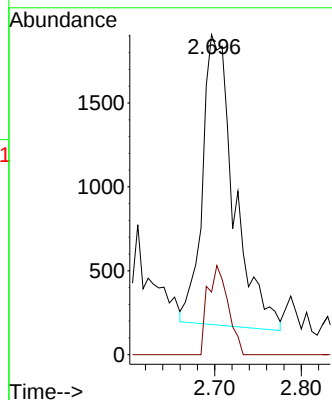
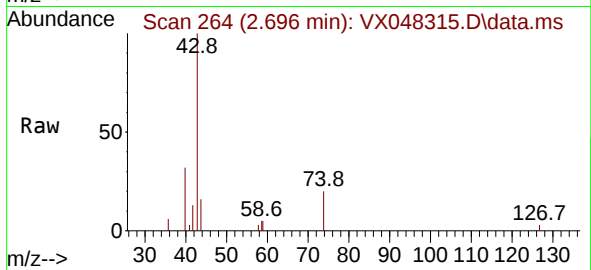




#18
Methyl Acetate
Concen: 3.980 ug/l
RT: 2.696 min Scan# 264
Delta R.T. -0.000 min
Lab File: VX048315.D
Acq: 23 Oct 2025 11:26

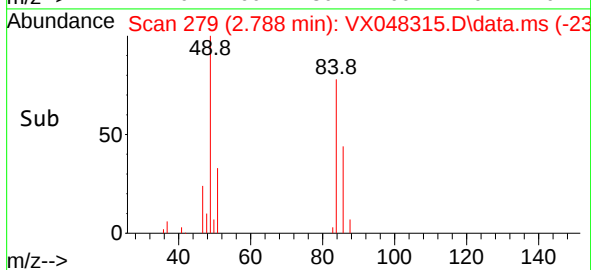
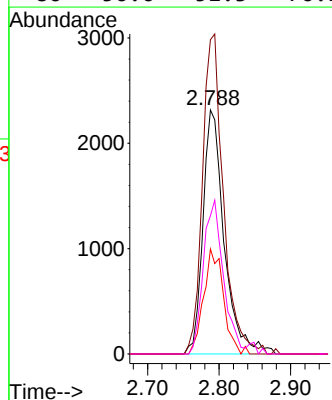
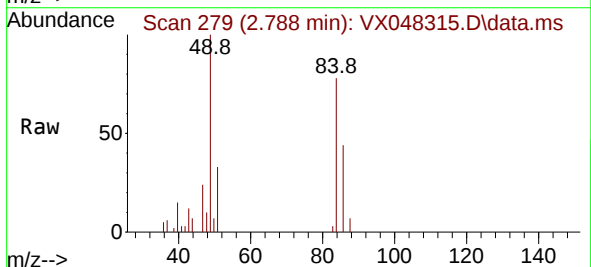
Instrument :
MSVOA_X
ClientSampleId :

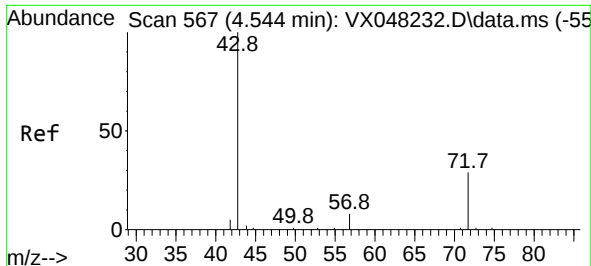
Tgt Ion: 43 Resp: 4367
Ion Ratio Lower Upper
43 100
74 19.8 17.5 26.3



#20
Methylene Chloride
Concen: 3.740 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX048315.D
Acq: 23 Oct 2025 11:26

Tgt Ion: 84 Resp: 4788
Ion Ratio Lower Upper
84 100
49 128.8 104.1 156.1
51 43.0 31.3 46.9
86 56.6 51.3 76.9

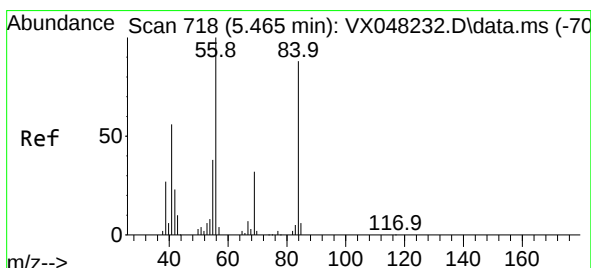
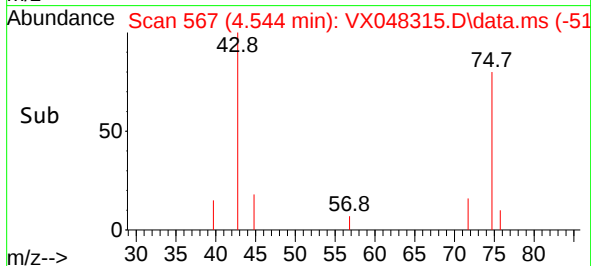
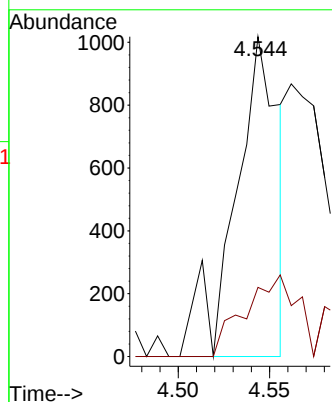
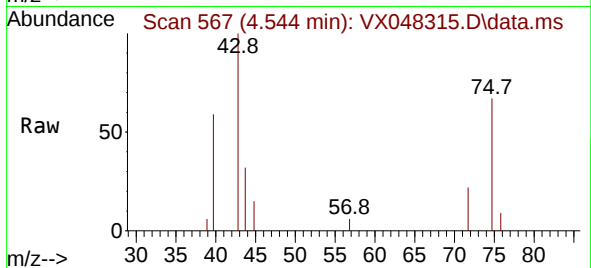




#25
2-Butanone
Concen: 2.538 ug/l
RT: 4.544 min Scan# 51
Delta R.T. 0.006 min
Lab File: VX048315.D
Acq: 23 Oct 2025 11:26

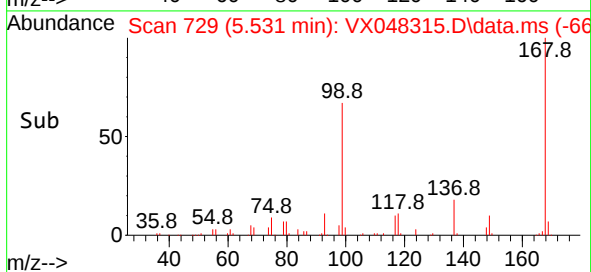
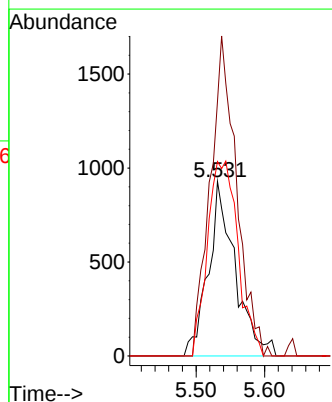
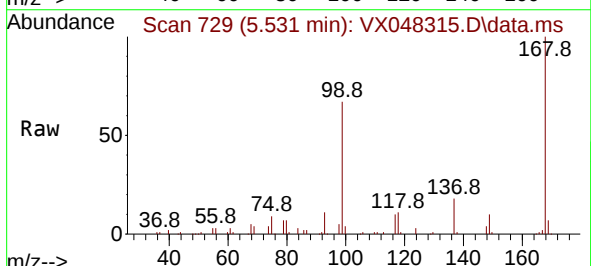
Instrument :
MSVOA_X
ClientSampleId :

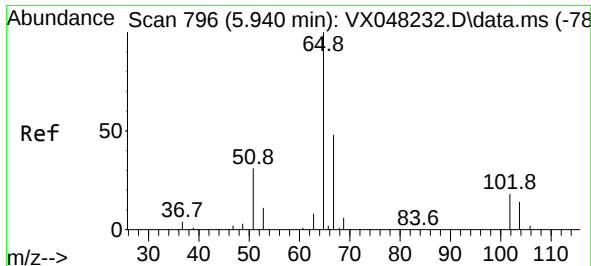
Tgt Ion: 43 Resp: 1688
Ion Ratio Lower Upper
43 100
72 16.3 19.9 29.9#



#31
Cyclohexane
Concen: 1.329 ug/l
RT: 5.531 min Scan# 729
Delta R.T. 0.073 min
Lab File: VX048315.D
Acq: 23 Oct 2025 11:26

Tgt Ion: 56 Resp: 2527
Ion Ratio Lower Upper
56 100
69 145.9 23.0 34.6#
84 111.4 64.6 97.0#





#33

1,2-Dichloroethane-d4

Concen: 62.898 ug/l

RT: 5.940 min Scan# 796

Delta R.T. -0.000 min

Lab File: VX048315.D

Acq: 23 Oct 2025 11:26

Instrument :

MSVOA_X

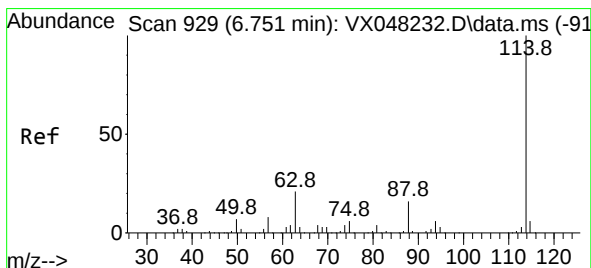
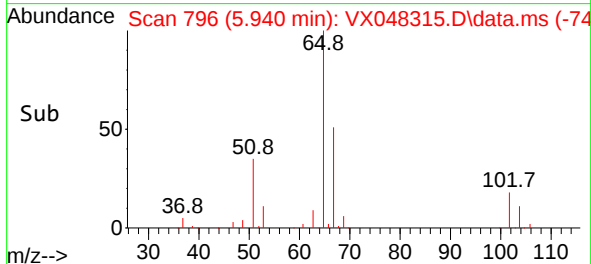
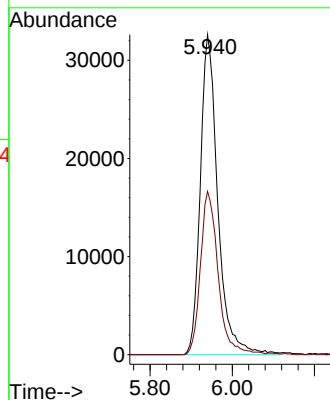
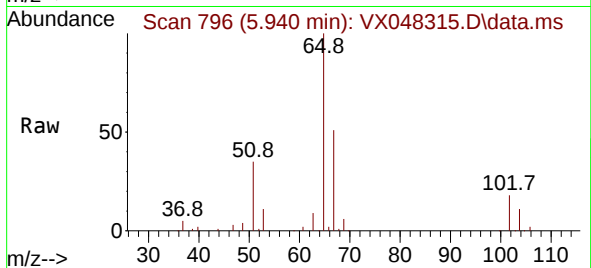
ClientSampleId :

Tgt Ion: 65 Resp: 96337

Ion Ratio Lower Upper

65 100

67 51.6 0.0 105.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.744 min Scan# 928

Delta R.T. -0.001 min

Lab File: VX048315.D

Acq: 23 Oct 2025 11:26

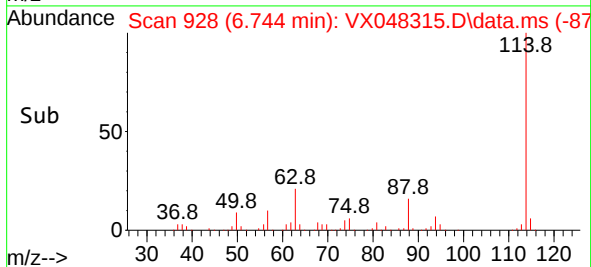
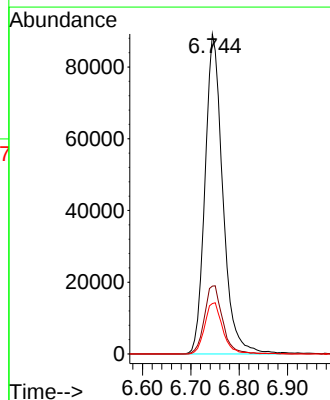
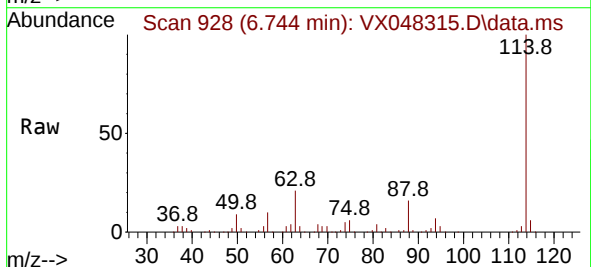
Tgt Ion: 114 Resp: 228380

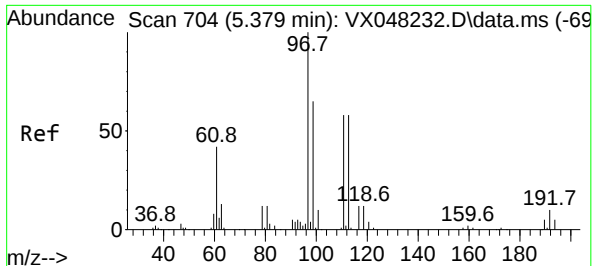
Ion Ratio Lower Upper

114 100

63 21.2 0.0 43.2

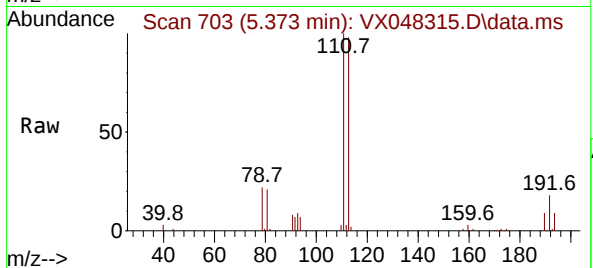
88 15.8 0.0 33.6



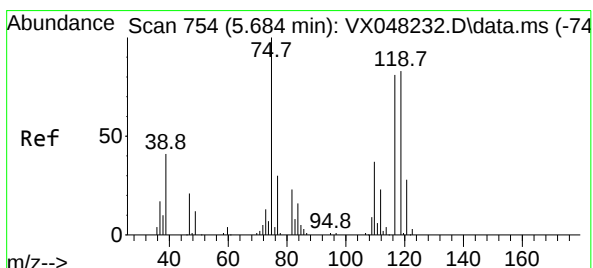
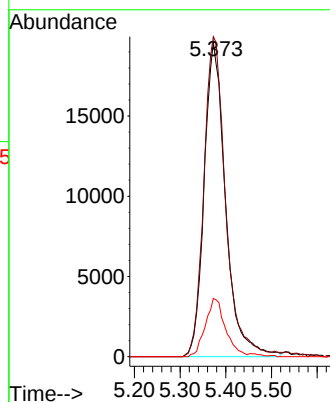
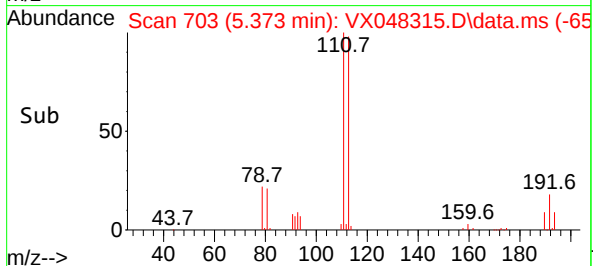


#35
Dibromofluoromethane
Concen: 40.991 ug/l
RT: 5.373 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX048315.D
Acq: 23 Oct 2025 11:26

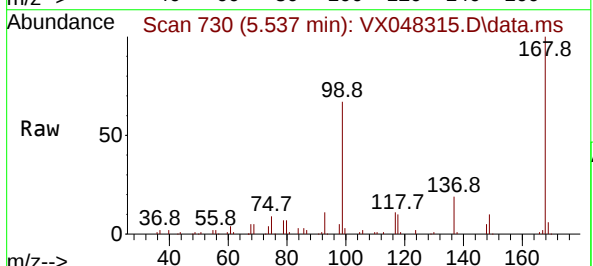
Instrument :
MSVOA_X
ClientSampleId :



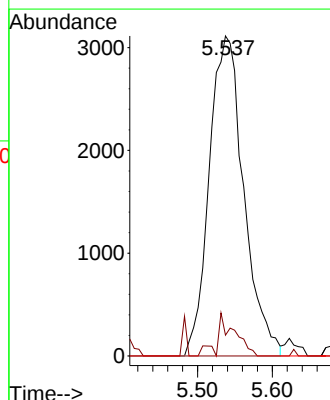
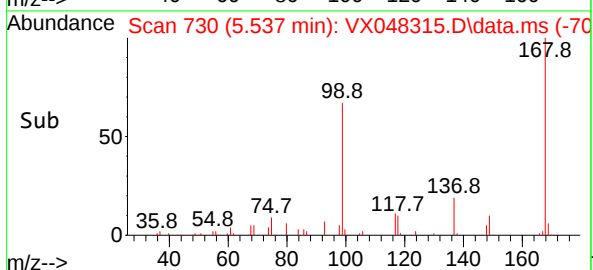
Tgt Ion:113 Resp: 63910
Ion Ratio Lower Upper
113 100
111 102.6 82.2 123.4
192 17.3 15.1 22.7

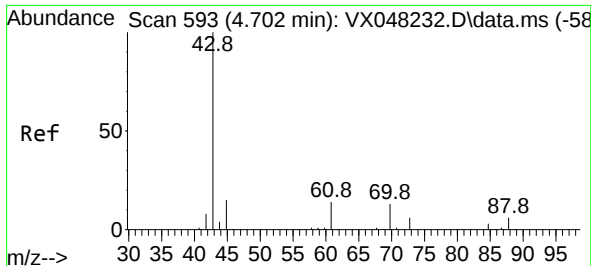


#36
1,1-Dichloropropene
Concen: 4.510 ug/l
RT: 5.537 min Scan# 730
Delta R.T. -0.147 min
Lab File: VX048315.D
Acq: 23 Oct 2025 11:26



Tgt Ion: 75 Resp: 9995
Ion Ratio Lower Upper
75 100
110 7.0 17.7 53.1#
77 0.0 24.3 36.5#





#37

Ethyl Acetate

Concen: 1.355 ug/l

RT: 4.708 min Scan# 593

Delta R.T. 0.012 min

Lab File: VX048315.D

Acq: 23 Oct 2025 11:26

Instrument :

MSVOA_X

ClientSampleId :

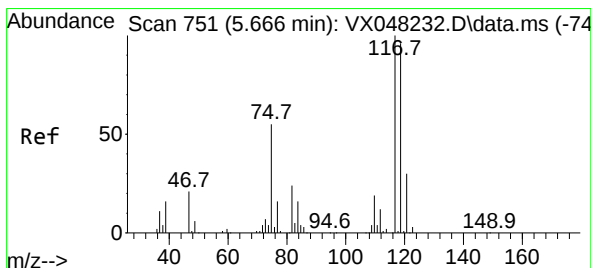
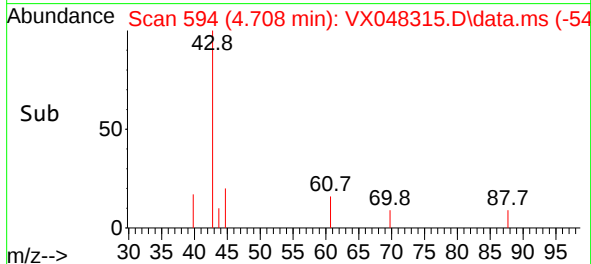
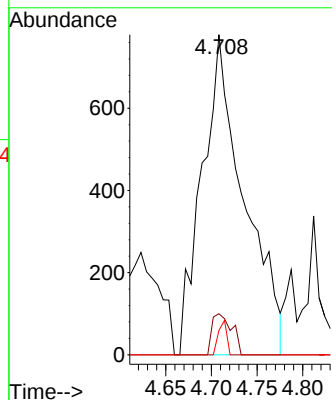
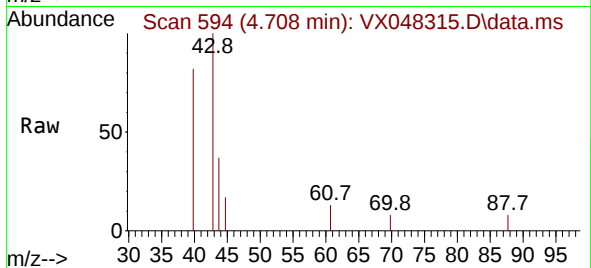
Tgt Ion: 43 Resp: 2489

Ion Ratio Lower Upper

43 100

61 6.0 10.6 15.8#

70 2.1 7.8 11.6#



#38

Carbon Tetrachloride

Concen: 4.389 ug/l

RT: 5.537 min Scan# 730

Delta R.T. -0.128 min

Lab File: VX048315.D

Acq: 23 Oct 2025 11:26

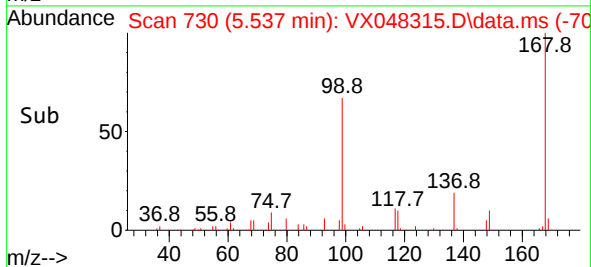
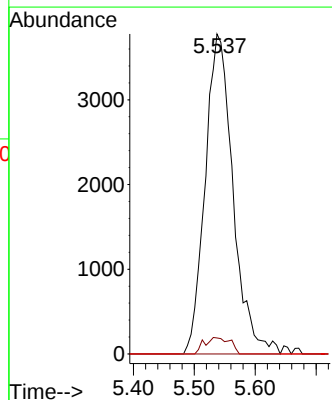
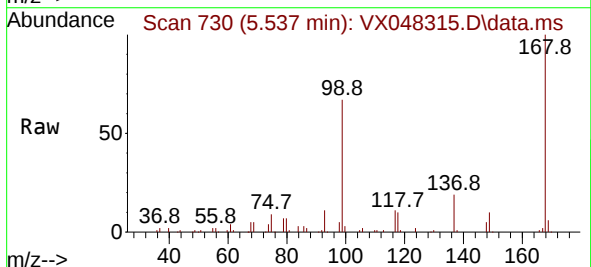
Tgt Ion: 117 Resp: 11999

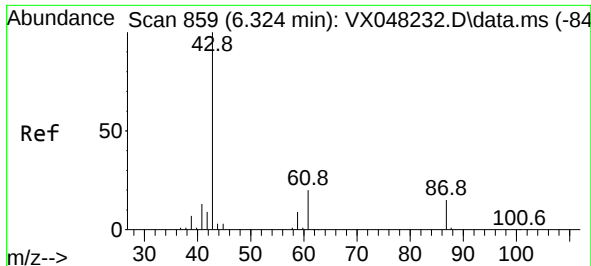
Ion Ratio Lower Upper

117 100

119 5.0 77.2 115.8#

121 0.0 24.8 37.2#

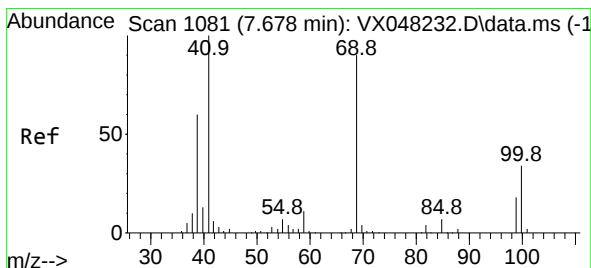
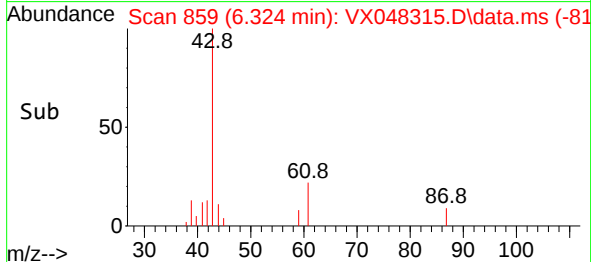
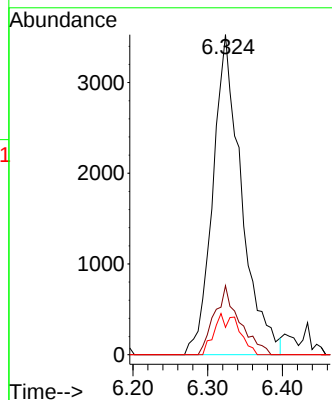
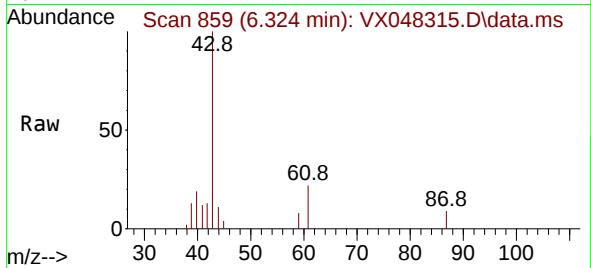




#43
Isopropyl Acetate
Concen: 3.112 ug/l
RT: 6.324 min Scan# 859
Delta R.T. -0.000 min
Lab File: VX048315.D
Acq: 23 Oct 2025 11:26

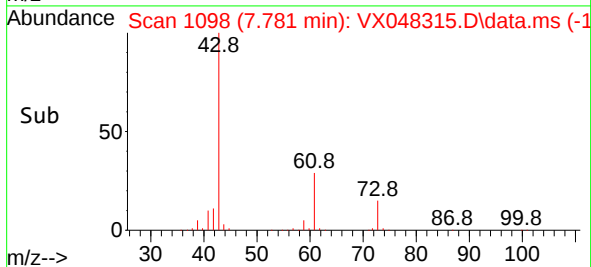
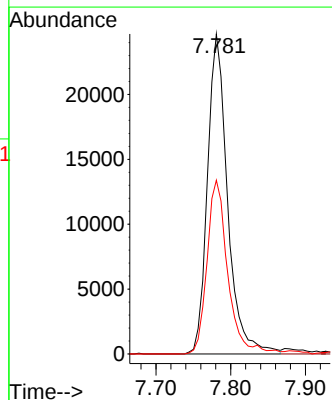
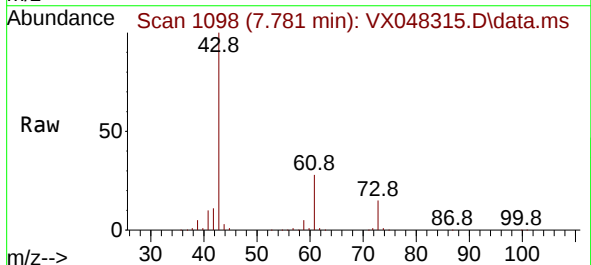
Instrument :
MSVOA_X
ClientSampleId :

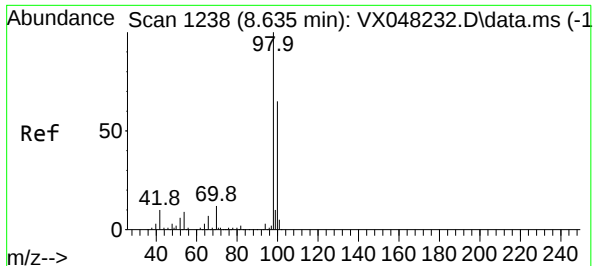
Tgt Ion: 43 Resp: 9388
Ion Ratio Lower Upper
43 100
61 19.0 14.9 22.3
87 5.5 9.4 14.2#



#48
Methyl methacrylate
Concen: 30.294 ug/l
RT: 7.781 min Scan# 1098
Delta R.T. 0.103 min
Lab File: VX048315.D
Acq: 23 Oct 2025 11:26

Tgt Ion: 41 Resp: 46123
Ion Ratio Lower Upper
41 100
69 0.0 63.4 95.0#
39 56.1 47.1 70.7

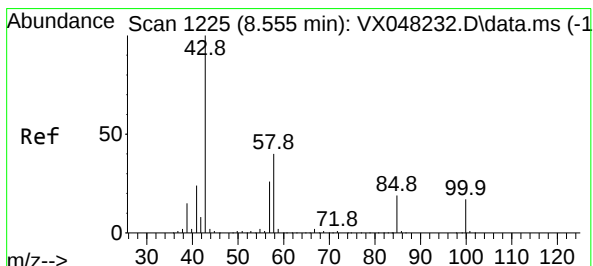
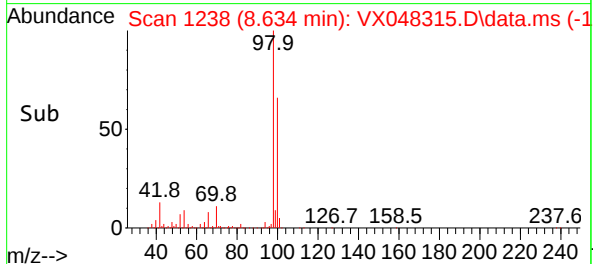
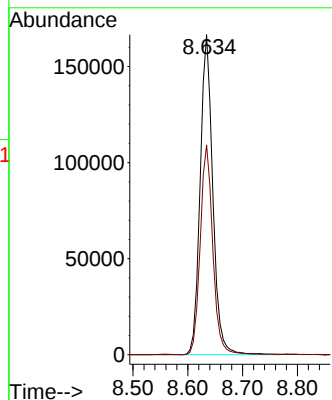
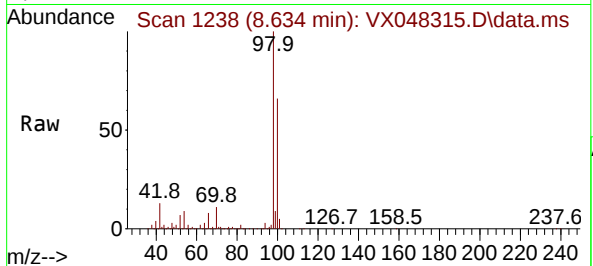




#50
Toluene-d8
Concen: 48.832 ug/l
RT: 8.634 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048315.D
Acq: 23 Oct 2025 11:26

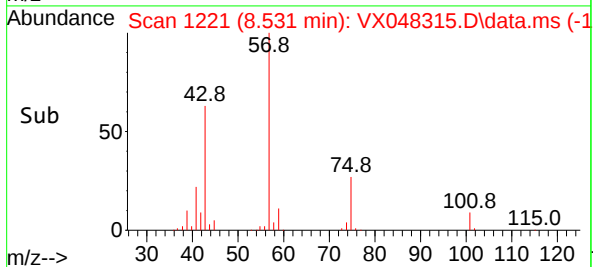
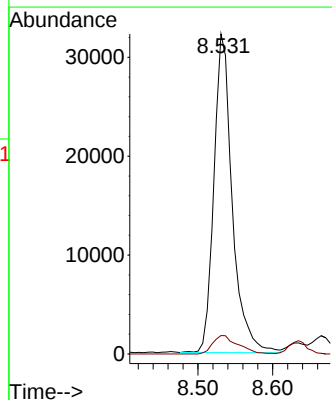
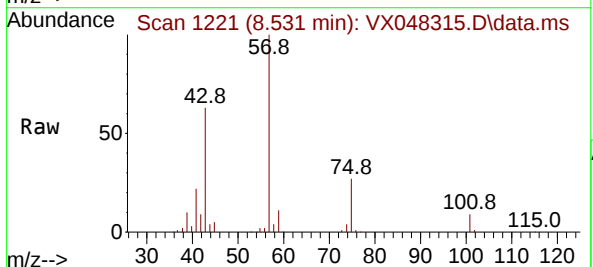
Instrument :
MSVOA_X
ClientSampleId :

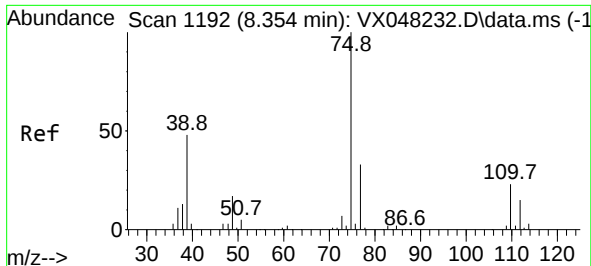
Tgt Ion: 98 Resp: 266865
Ion Ratio Lower Upper
98 100
100 65.4 53.0 79.4



#51
4-Methyl-2-Pentanone
Concen: 31.669 ug/l
RT: 8.531 min Scan# 1221
Delta R.T. -0.025 min
Lab File: VX048315.D
Acq: 23 Oct 2025 11:26

Tgt Ion: 43 Resp: 55092
Ion Ratio Lower Upper
43 100
58 8.0 29.5 44.3#

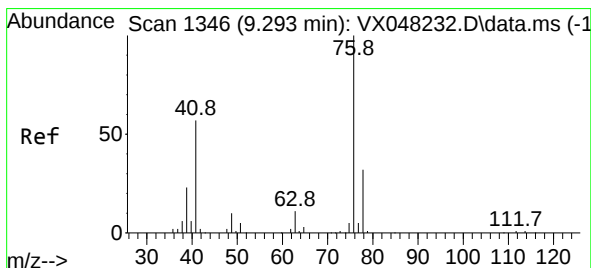
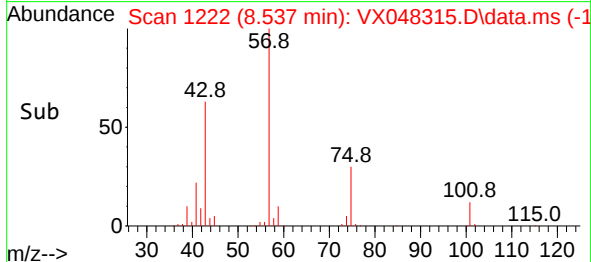
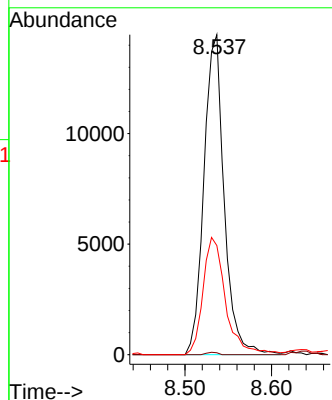
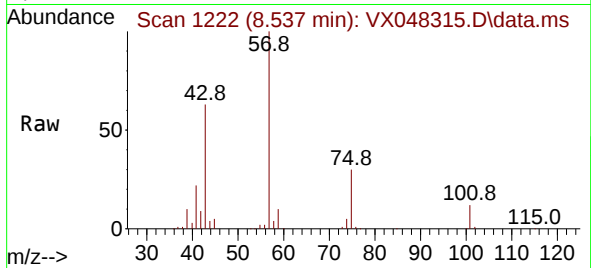




#54
 cis-1,3-Dichloropropene
 Concen: 8.773 ug/l
 RT: 8.537 min Scan# 1192
 Delta R.T. 0.189 min
 Lab File: VX048315.D
 Acq: 23 Oct 2025 11:26

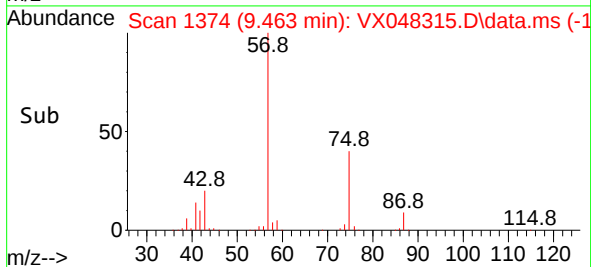
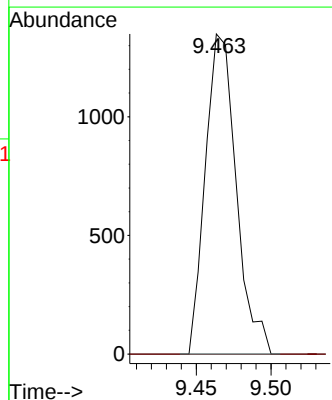
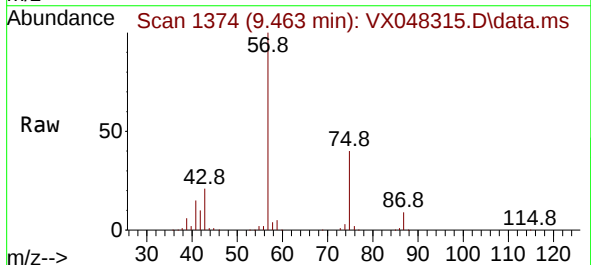
Instrument :
 MSVOA_X
 ClientSampleId :

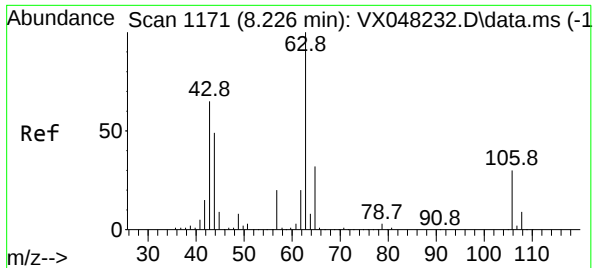
Tgt Ion: 75 Resp: 23470
 Ion Ratio Lower Upper
 75 100
 77 0.6 24.9 37.3#
 39 34.1 42.6 64.0#



#57
 1,3-Dichloropropane
 Concen: 0.747 ug/l
 RT: 9.463 min Scan# 1374
 Delta R.T. 0.170 min
 Lab File: VX048315.D
 Acq: 23 Oct 2025 11:26

Tgt Ion: 76 Resp: 1939
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.0#

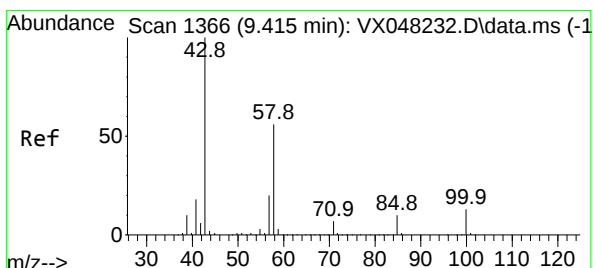
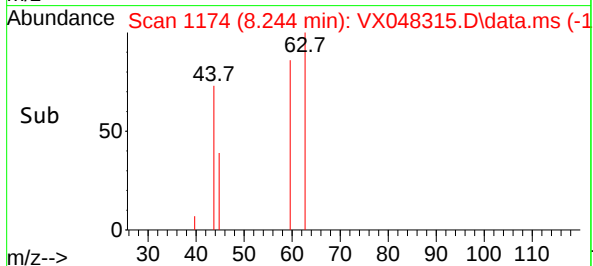
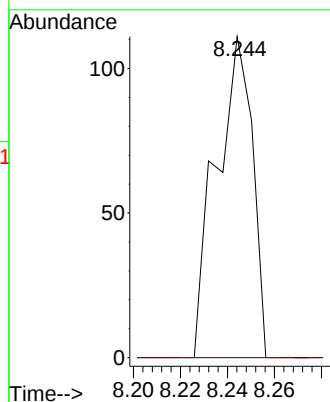
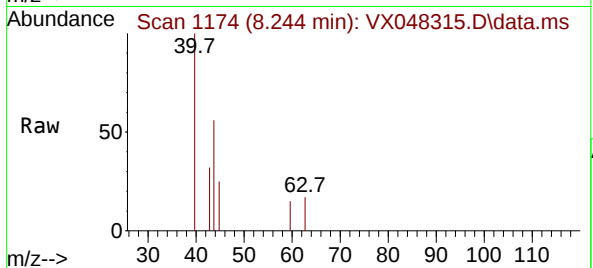




#58
2-Chloroethyl Vinyl ether
Concen: 1.796 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.018 min
Lab File: VX048315.D
Acq: 23 Oct 2025 11:26

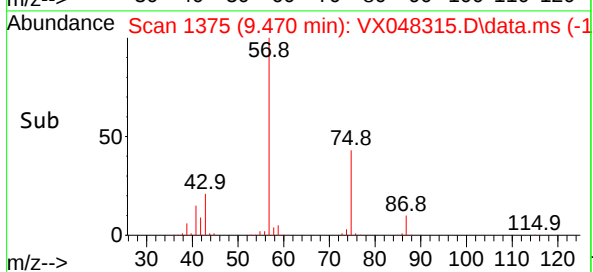
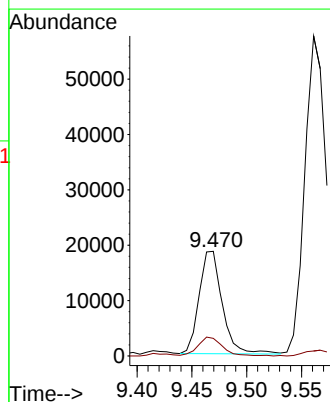
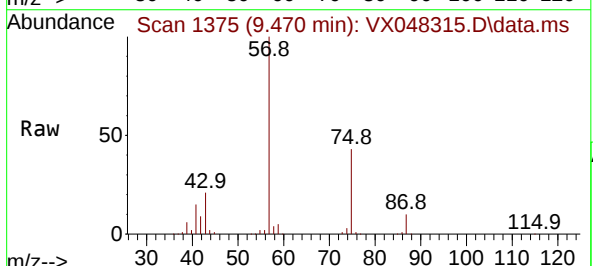
Instrument :
MSVOA_X
ClientSampleId :

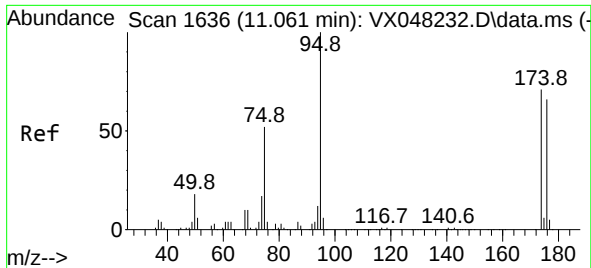
Tgt Ion: 63 Resp: 119
Ion Ratio Lower Upper
63 100
106 0.0 22.2 33.2#



#59
2-Hexanone
Concen: 22.459 ug/l
RT: 9.470 min Scan# 1375
Delta R.T. 0.055 min
Lab File: VX048315.D
Acq: 23 Oct 2025 11:26

Tgt Ion: 43 Resp: 27243
Ion Ratio Lower Upper
43 100
58 19.5 26.3 78.8#

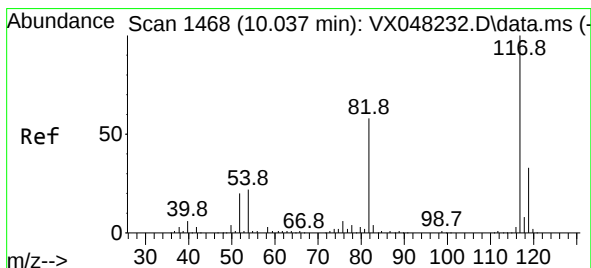
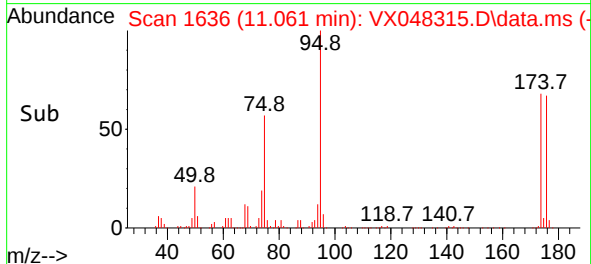
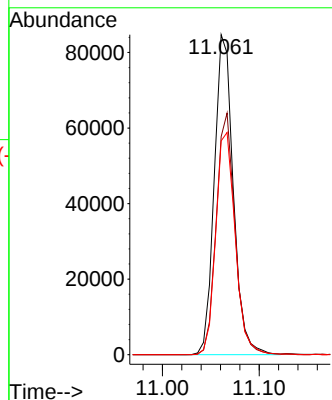
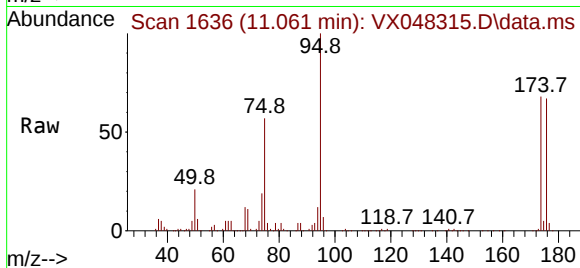




#62
4-Bromofluorobenzene
Concen: 55.570 ug/l
RT: 11.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048315.D
Acq: 23 Oct 2025 11:26

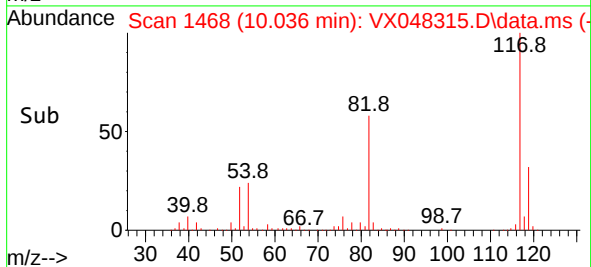
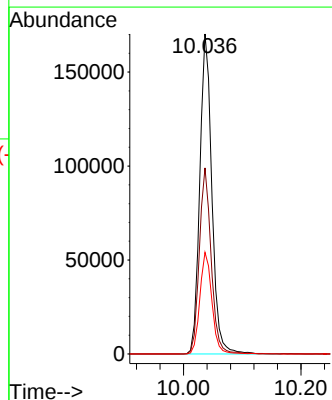
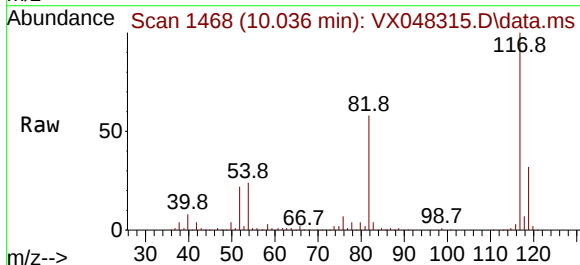
Instrument :
MSVOA_X
ClientSampleId :

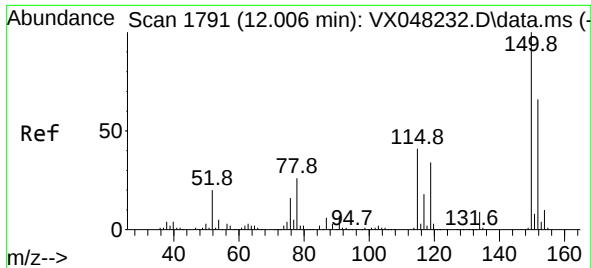
Tgt Ion: 95 Resp: 115532
Ion Ratio Lower Upper
95 100
174 74.4 0.0 147.8
176 71.3 0.0 142.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.036 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048315.D
Acq: 23 Oct 2025 11:26

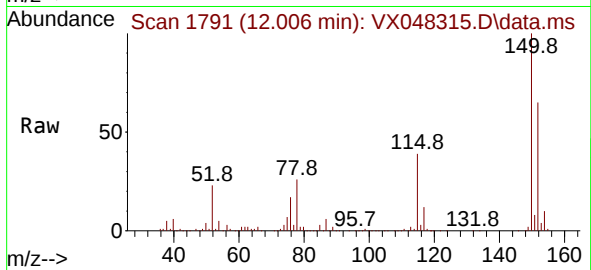
Tgt Ion: 117 Resp: 242932
Ion Ratio Lower Upper
117 100
82 58.2 46.5 69.7
119 31.8 25.9 38.9



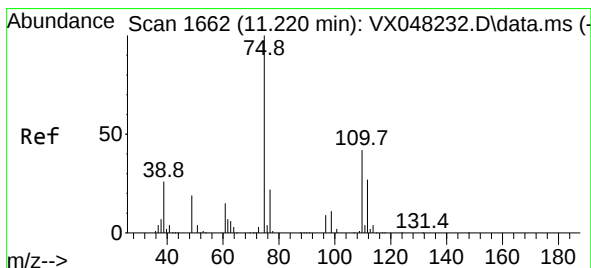
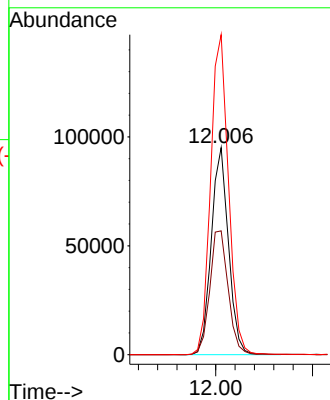
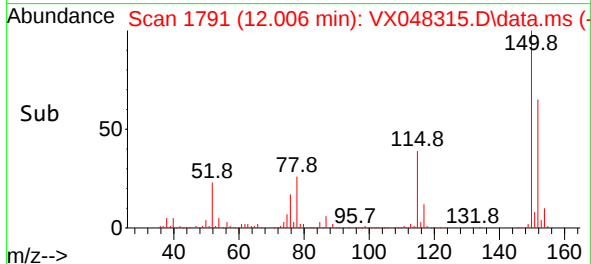


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.006 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VX048315.D
 Acq: 23 Oct 2025 11:26

Instrument :
 MSVOA_X
 ClientSampleId :

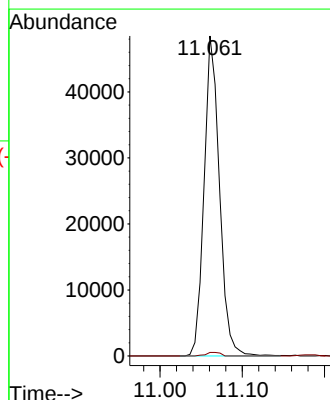
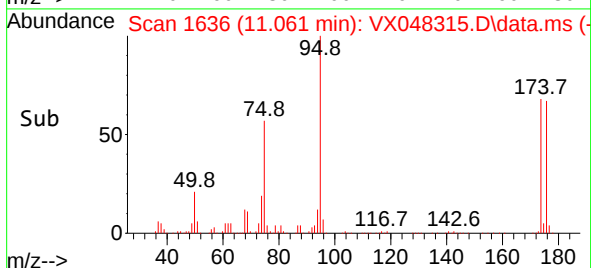
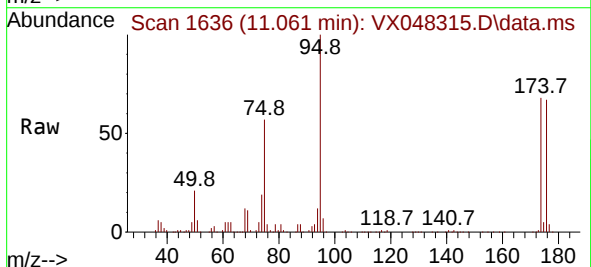


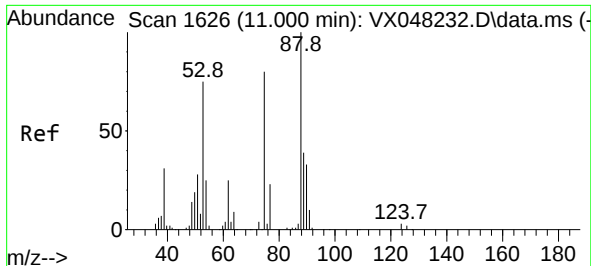
Tgt Ion:152 Resp: 117869
 Ion Ratio Lower Upper
 152 100
 115 64.0 43.1 129.4
 150 160.2 0.0 353.0



#76
 1,2,3-Trichloropropane
 Concen: 32.961 ug/l
 RT: 11.061 min Scan# 1636
 Delta R.T. -0.159 min
 Lab File: VX048315.D
 Acq: 23 Oct 2025 11:26

Tgt Ion: 75 Resp: 63002
 Ion Ratio Lower Upper
 75 100
 77 1.0 22.4 67.2#

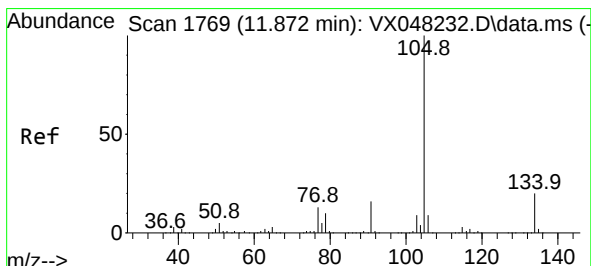
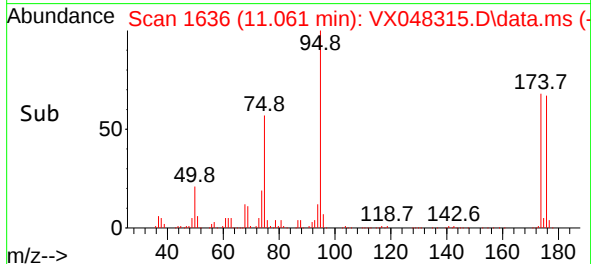
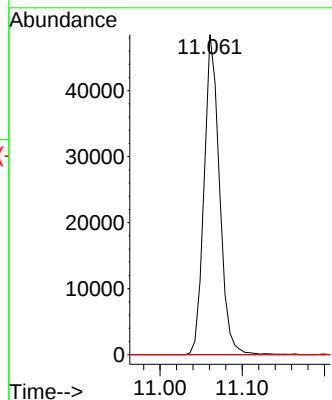
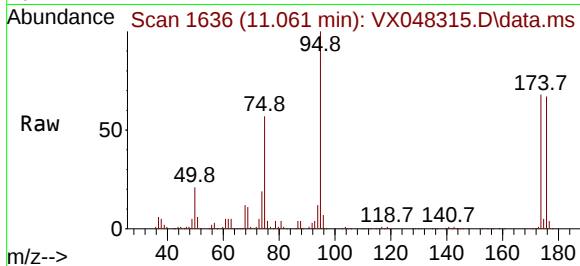




#81
trans-1,4-Dichloro-2-butene
Concen: 80.190 ug/l
RT: 11.061 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX048315.D
Acq: 23 Oct 2025 11:26

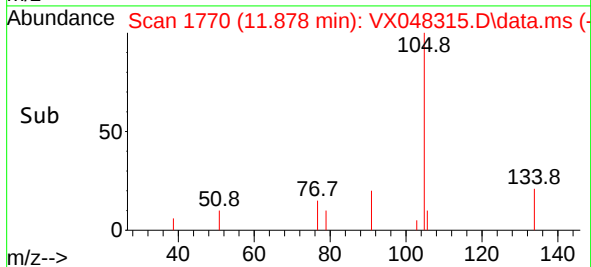
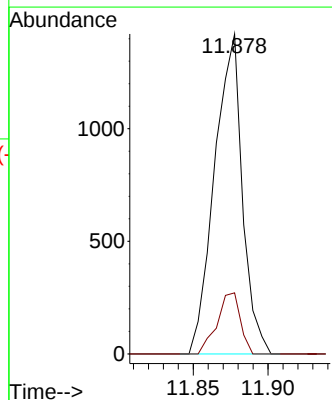
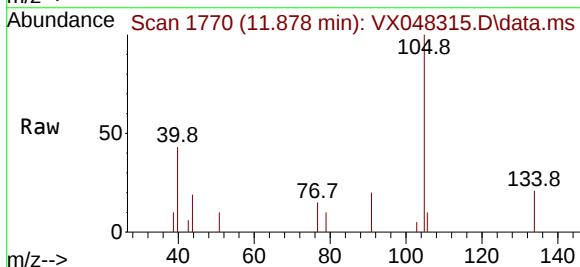
Instrument :
MSVOA_X
ClientSampleId :

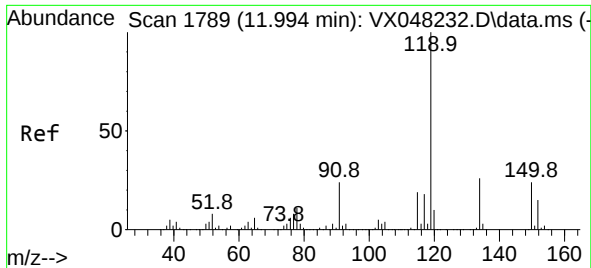
Tgt Ion: 75 Resp: 63002
Ion Ratio Lower Upper
75 100
53 0.0 79.5 119.3#
89 0.0 36.8 55.2#



#85
sec-Butylbenzene
Concen: 0.208 ug/l
RT: 11.878 min Scan# 1770
Delta R.T. 0.006 min
Lab File: VX048315.D
Acq: 23 Oct 2025 11:26

Tgt Ion: 105 Resp: 1834
Ion Ratio Lower Upper
105 100
134 15.9 10.1 30.1

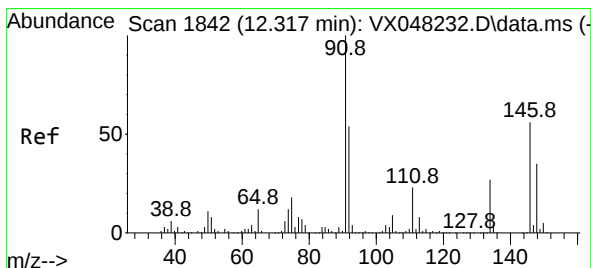
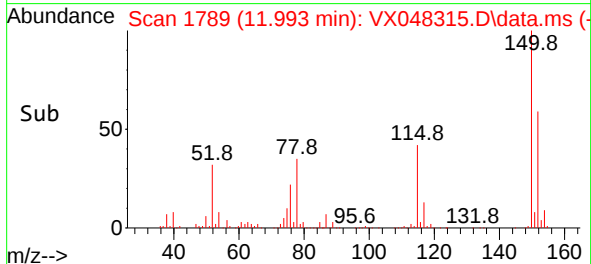
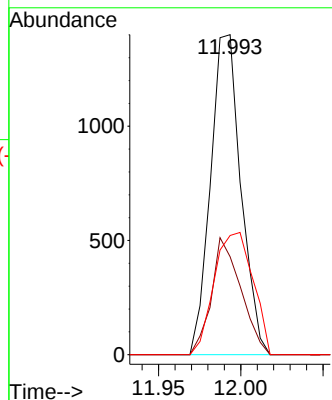
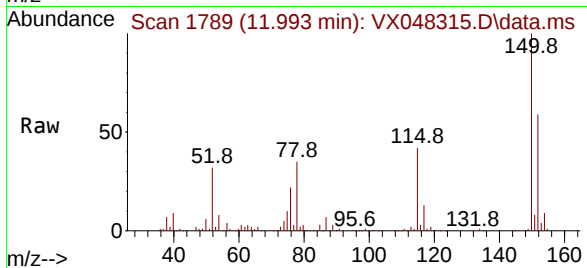




#86
p-Isopropyltoluene
Concen: 0.236 ug/l
RT: 11.993 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX048315.D
Acq: 23 Oct 2025 11:26

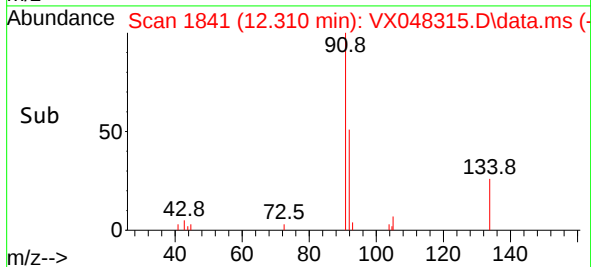
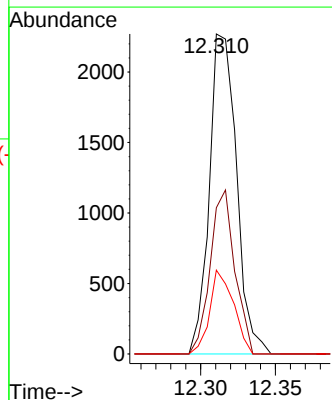
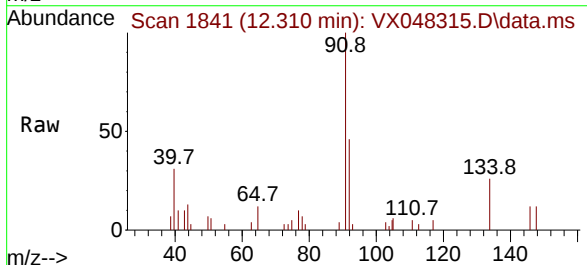
Instrument :
MSVOA_X
ClientSampleId :

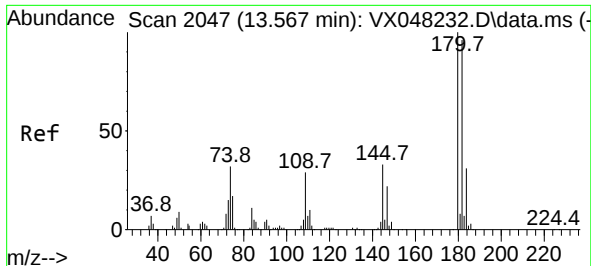
Tgt Ion:119 Resp: 1800
Ion Ratio Lower Upper
119 100
134 35.4 13.0 39.0
91 48.7 12.1 36.3#



#89
n-Butylbenzene
Concen: 0.414 ug/l
RT: 12.310 min Scan# 1841
Delta R.T. -0.000 min
Lab File: VX048315.D
Acq: 23 Oct 2025 11:26

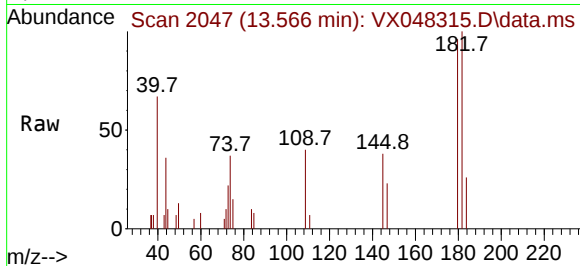
Tgt Ion: 91 Resp: 2868
Ion Ratio Lower Upper
91 100
92 46.4 26.9 80.6
134 22.9 12.7 38.1



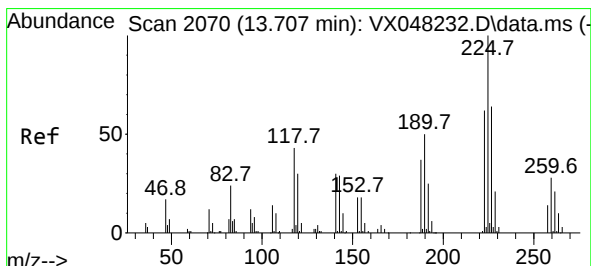
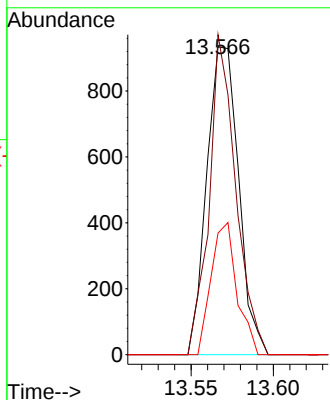
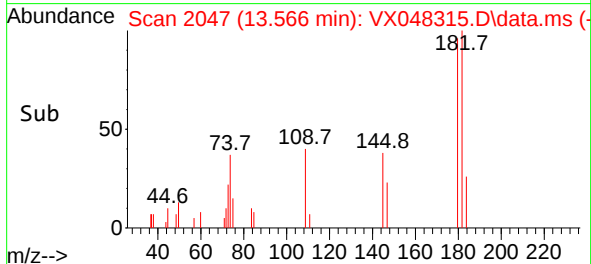


#93
1,2,4-Trichlorobenzene
Concen: 0.486 ug/l
RT: 13.566 min Scan# 2047
Delta R.T. -0.000 min
Lab File: VX048315.D
Acq: 23 Oct 2025 11:26

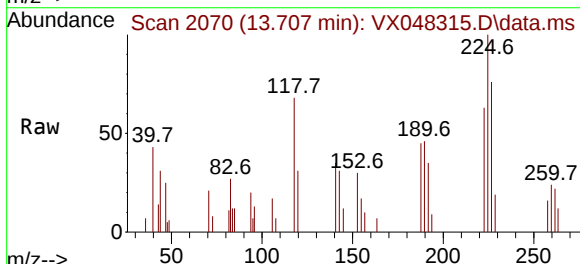
Instrument :
MSVOA_X
ClientSampleId :



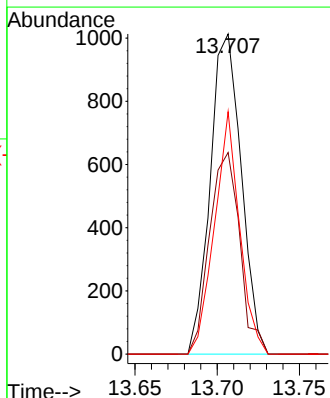
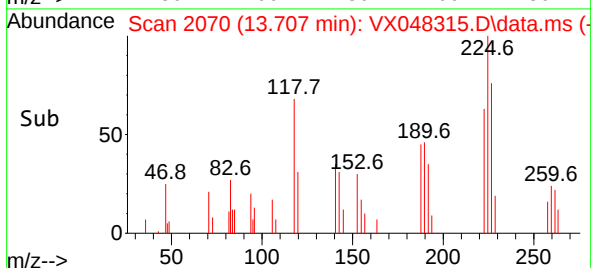
Tgt Ion:180 Resp: 1257
Ion Ratio Lower Upper
180 100
182 87.1 47.3 142.0
145 34.8 16.3 48.9

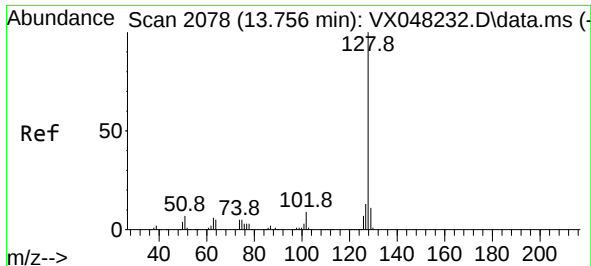


#94
Hexachlorobutadiene
Concen: 1.438 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. 0.006 min
Lab File: VX048315.D
Acq: 23 Oct 2025 11:26



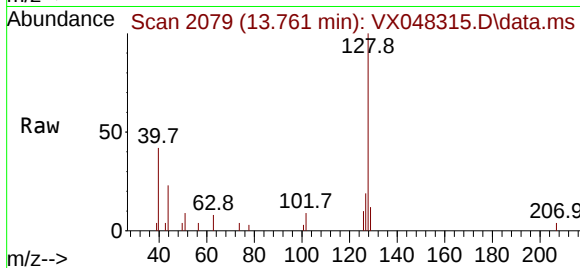
Tgt Ion:225 Resp: 1330
Ion Ratio Lower Upper
225 100
223 61.4 32.6 97.7
227 61.4 32.5 97.4



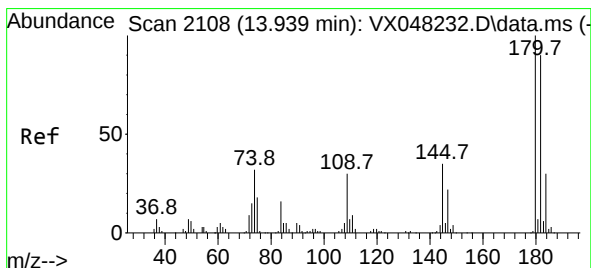
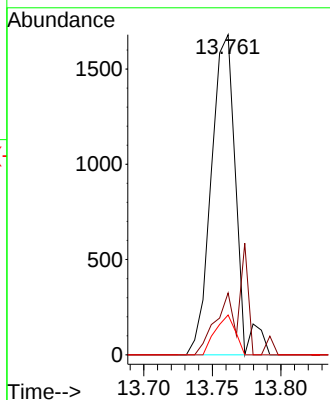
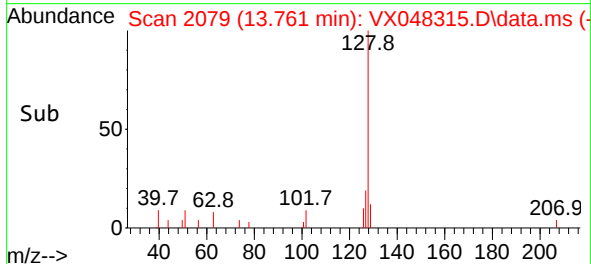


#95
Naphthalene
Concen: 0.306 ug/l
RT: 13.761 min Scan# 2078
Delta R.T. 0.006 min
Lab File: VX048315.D
Acq: 23 Oct 2025 11:26

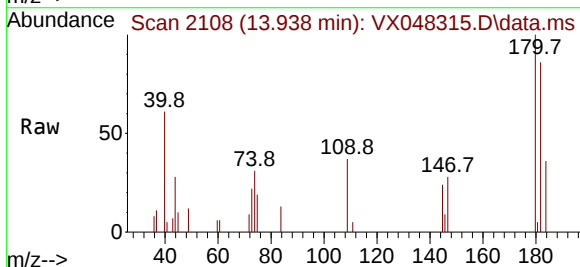
Instrument :
MSVOA_X
ClientSampleId :



Tgt Ion:	128	Resp:	2098
Ion Ratio	Lower	Upper	
128	100		
127	14.6	10.2	15.4
129	10.1	8.6	12.8



#96
1,2,3-Trichlorobenzene
Concen: 0.475 ug/l
RT: 13.938 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX048315.D
Acq: 23 Oct 2025 11:26



Tgt Ion:	180	Resp:	1127
Ion Ratio	Lower	Upper	
180	100		
182	107.8	46.6	139.7
145	34.5	16.9	50.7

