

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102325\
 Data File : VX048333.D
 Acq On : 23 Oct 2025 17:51
 Operator : JC/MD
 Sample : Q3414-03 40X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

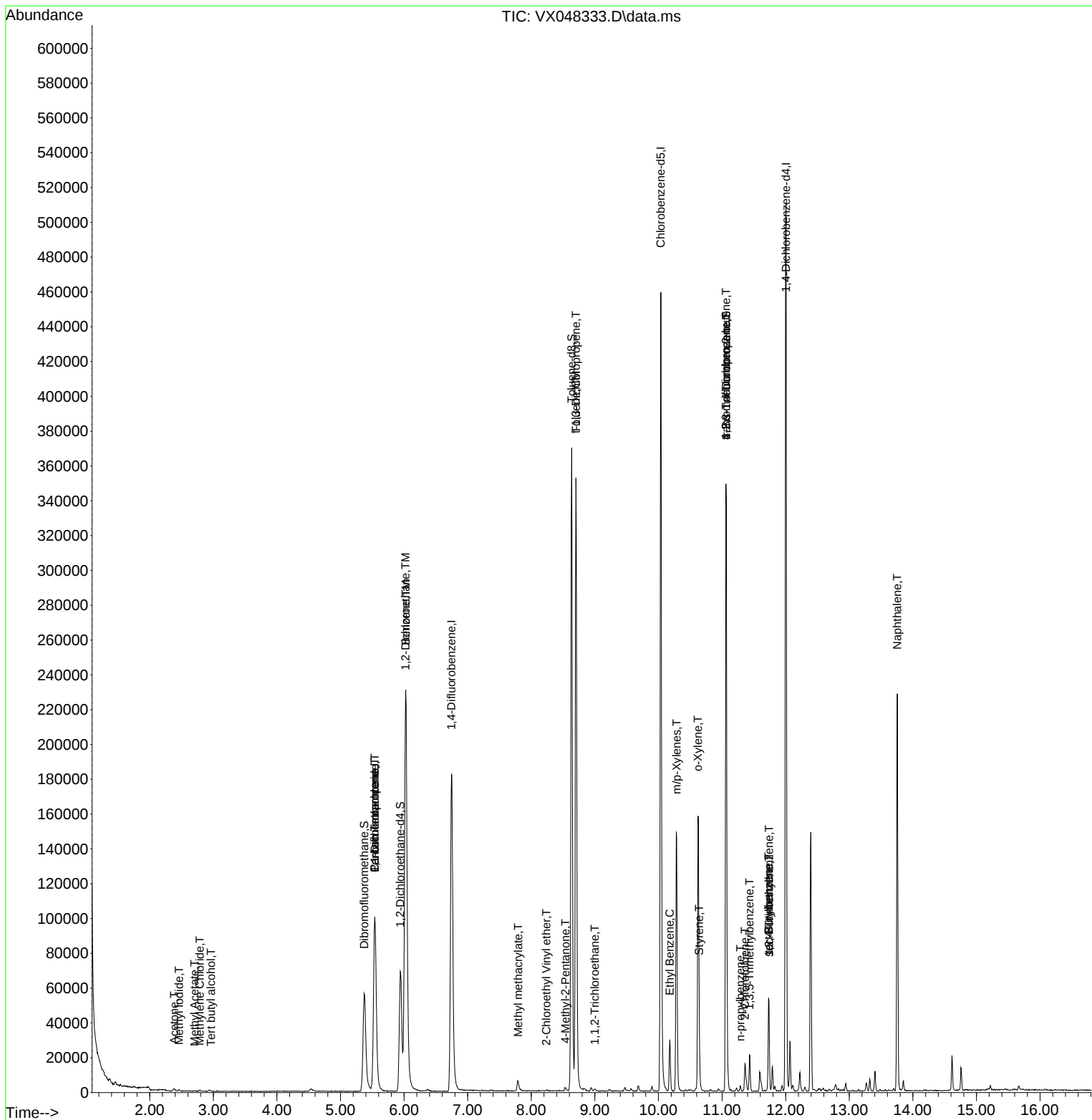
Quant Time: Oct 24 05:50:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 20 14:13:59 2025
 Response via : Initial Calibration

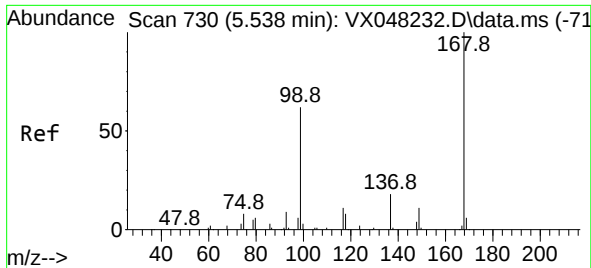
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.538	168	101048	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	201336	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	207930	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	105814	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	77990	55.048	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	110.100%
35) Dibromofluoromethane	5.373	113	55565	40.425	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	80.860%
50) Toluene-d8	8.635	98	223840	46.461	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	92.920%
62) 4-Bromofluorobenzene	11.061	95	99708	54.401	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	108.800%
Target Compounds						
					Qvalue	
10) Methyl Iodide	2.459	142	922	0.673	ug/l #	83
11) Tert butyl alcohol	2.965	59	40	0.284	ug/l #	72
16) Acetone	2.386	43	2064	4.247	ug/l #	82
18) Methyl Acetate	2.703	43	348	0.343	ug/l #	54
20) Methylene Chloride	2.788	84	257	0.217	ug/l #	84
36) 1,1-Dichloropropene	5.538	75	8748	4.478	ug/l #	49
38) Carbon Tetrachloride	5.538	117	10889	4.518	ug/l #	15
40) Benzene	6.025	78	294976	52.005	ug/l	100
42) 1,2-Dichloroethane	6.019	62	2787	1.332	ug/l #	76
48) Methyl methacrylate	7.793	41	716	0.533	ug/l #	47
51) 4-Methyl-2-Pentanone	8.537	43	1508	0.983	ug/l #	38
52) Toluene	8.702	92	137094	38.046	ug/l	100
53) t-1,3-Dichloropropene	8.702	75	1536	0.703	ug/l #	1
55) 1,1,2-Trichloroethane	9.000	97	947	0.707	ug/l #	14
58) 2-Chloroethyl Vinyl ether	8.238	63	166	1.854	ug/l #	47
67) Ethyl Benzene	10.177	91	17141	2.152	ug/l	99
68) m/p-Xylenes	10.287	106	36210	12.238	ug/l	100
69) o-Xylene	10.622	106	34165	11.960	ug/l	98
70) Styrene	10.640	104	9987	2.053	ug/l #	48
76) 1,2,3-Trichloropropane	11.061	75	53211	31.010	ug/l #	33
78) n-propylbenzene	11.286	91	2195	0.245	ug/l	85
79) 2-Chlorotoluene	11.360	91	1539	0.284	ug/l #	42
80) 1,3,5-Trimethylbenzene	11.433	105	8920	1.395	ug/l	95
81) trans-1,4-Dichloro-2-b...	11.061	75	53211	75.444	ug/l #	10
83) tert-Butylbenzene	11.732	119	2898	0.441	ug/l #	53
84) 1,2,4-Trimethylbenzene	11.738	105	24499	3.838	ug/l	96
85) sec-Butylbenzene	11.738	105	24499	3.099	ug/l #	56
95) Naphthalene	13.756	128	129936	21.144	ug/l	100

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

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Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

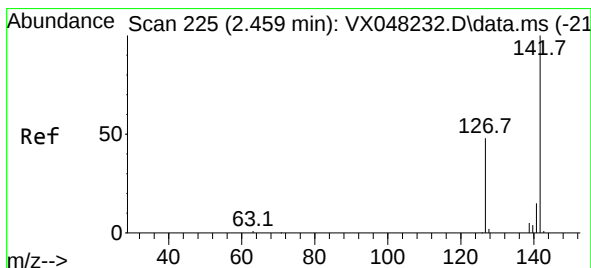
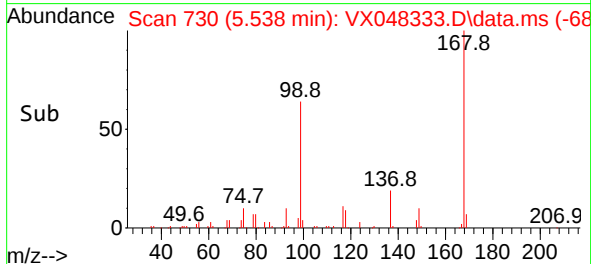
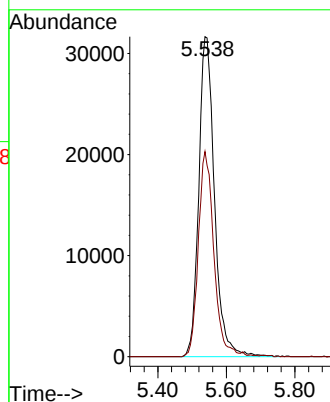
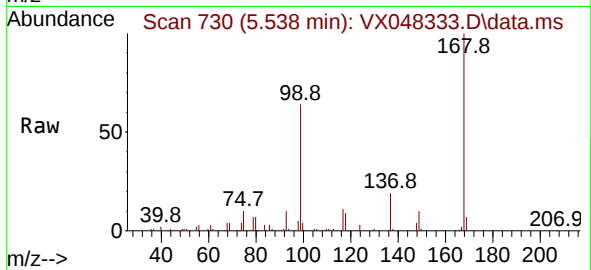




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX048333.D
Acq: 23 Oct 2025 17:51

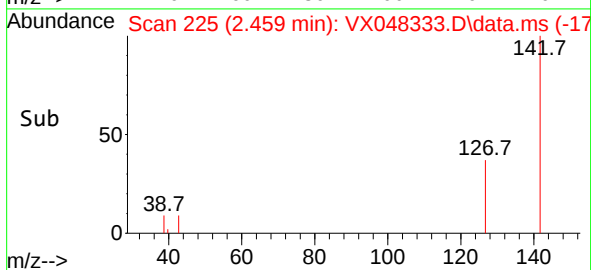
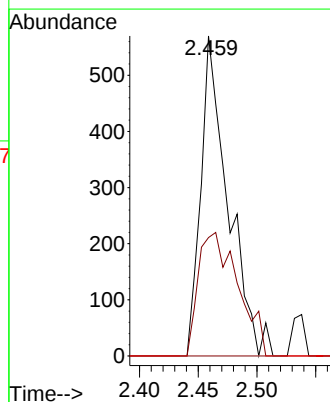
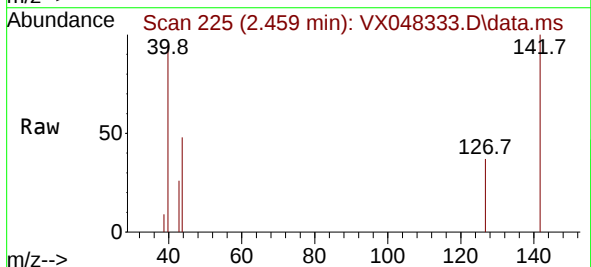
Instrument :
MSVOA_X
ClientSampleId :

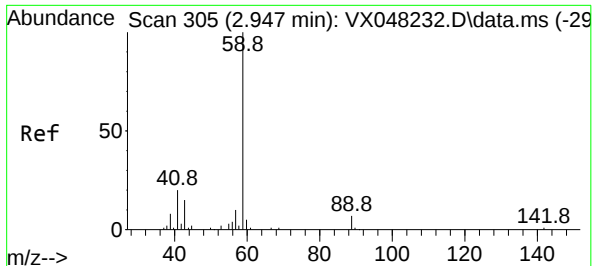
Tgt Ion:168 Resp: 101048
Ion Ratio Lower Upper
168 100
99 64.1 46.4 69.6



#10
Methyl Iodide
Concen: 0.673 ug/l
RT: 2.459 min Scan# 225
Delta R.T. -0.000 min
Lab File: VX048333.D
Acq: 23 Oct 2025 17:51

Tgt Ion:142 Resp: 922
Ion Ratio Lower Upper
142 100
127 56.3 38.5 57.7
141 0.0 11.6 17.4#





#11

Tert butyl alcohol

Concen: 0.284 ug/l

RT: 2.965 min Scan# 30

Delta R.T. 0.024 min

Lab File: VX048333.D

Acq: 23 Oct 2025 17:51

Instrument :

MSVOA_X

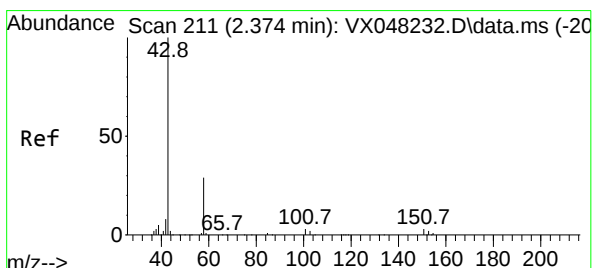
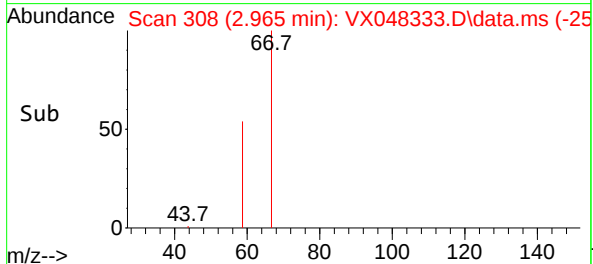
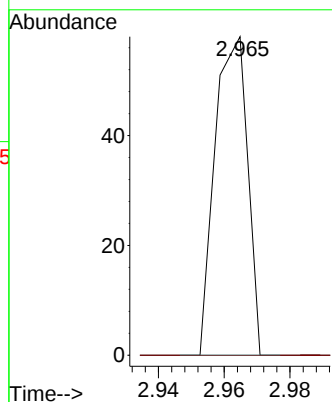
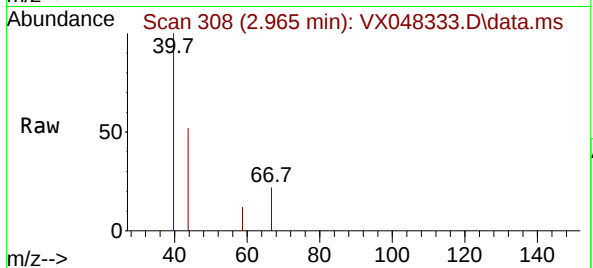
ClientSampleId :

Tgt Ion: 59 Resp: 40

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



#16

Acetone

Concen: 4.247 ug/l

RT: 2.386 min Scan# 213

Delta R.T. 0.012 min

Lab File: VX048333.D

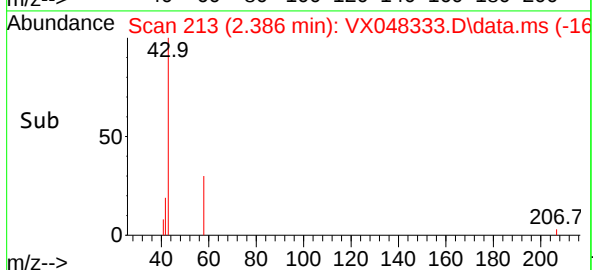
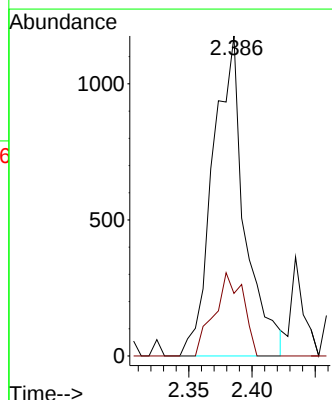
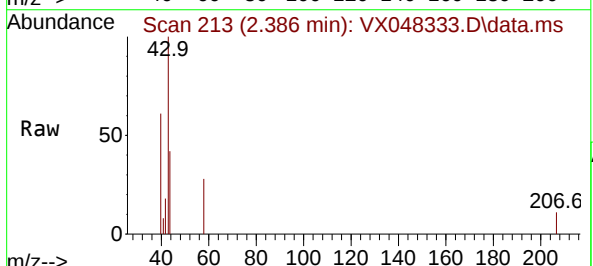
Acq: 23 Oct 2025 17:51

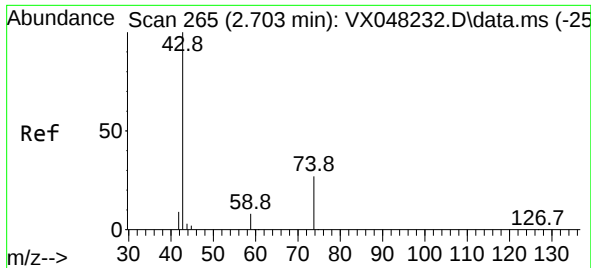
Tgt Ion: 43 Resp: 2064

Ion Ratio Lower Upper

43 100

58 19.6 23.4 35.2#

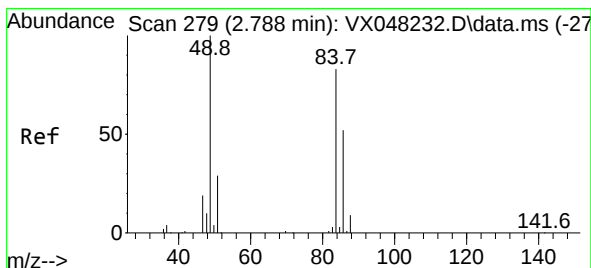
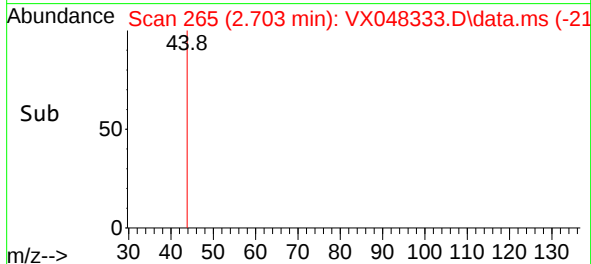
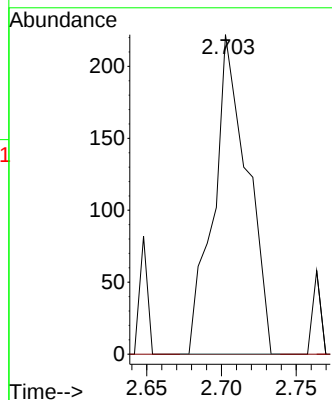
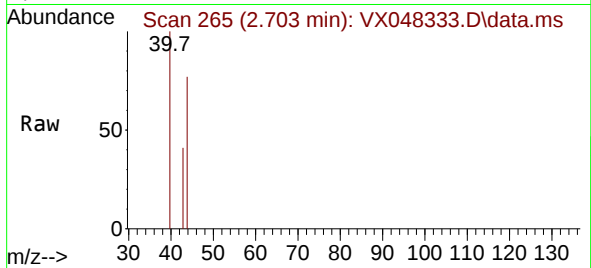




#18
Methyl Acetate
Concen: 0.343 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.006 min
Lab File: VX048333.D
Acq: 23 Oct 2025 17:51

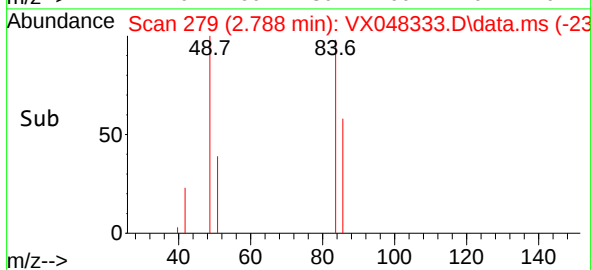
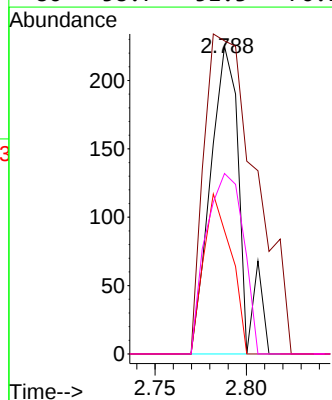
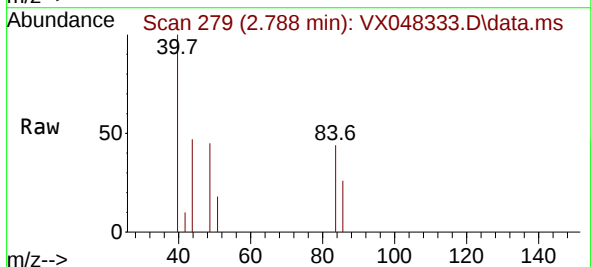
Instrument :
MSVOA_X
ClientSampleId :

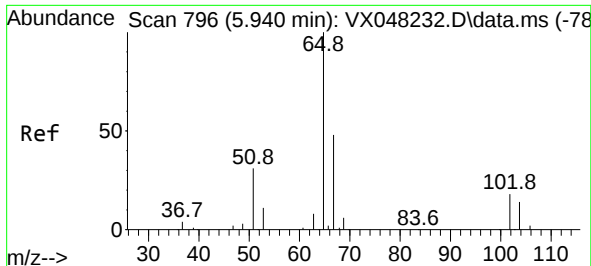
Tgt Ion: 43 Resp: 348
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 0.217 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX048333.D
Acq: 23 Oct 2025 17:51

Tgt Ion: 84 Resp: 257
Ion Ratio Lower Upper
84 100
49 101.8 104.1 156.1#
51 40.0 31.3 46.9
86 58.7 51.3 76.9

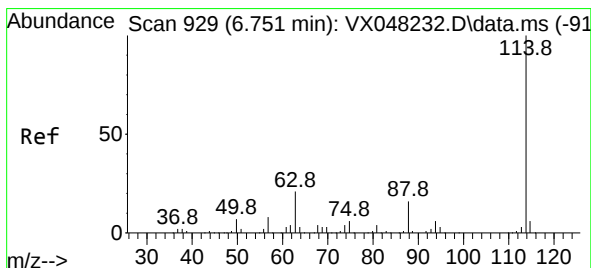
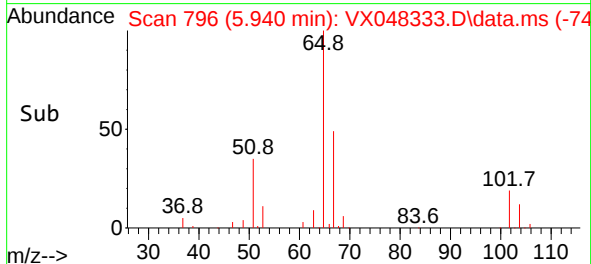
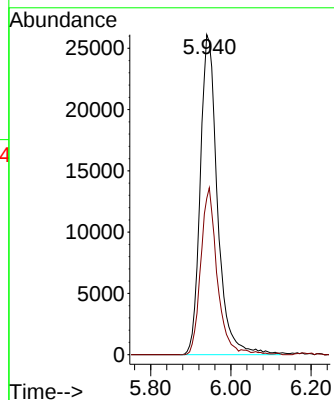
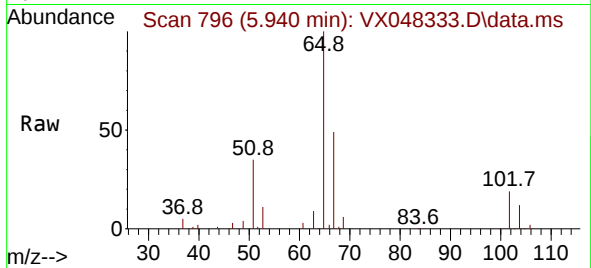




#33
 1,2-Dichloroethane-d4
 Concen: 55.048 ug/l
 RT: 5.940 min Scan# 796
 Delta R.T. -0.000 min
 Lab File: VX048333.D
 Acq: 23 Oct 2025 17:51

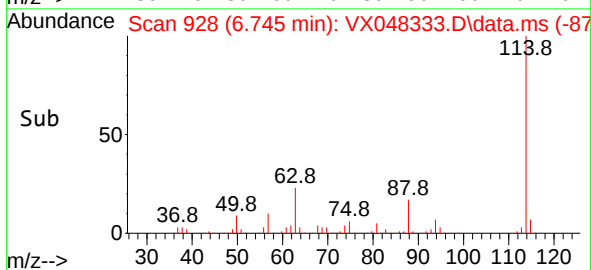
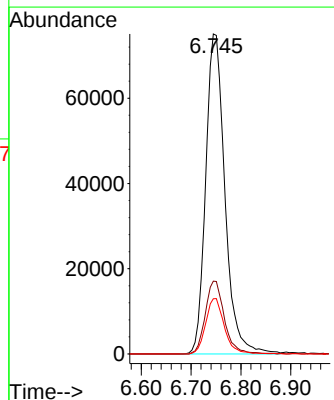
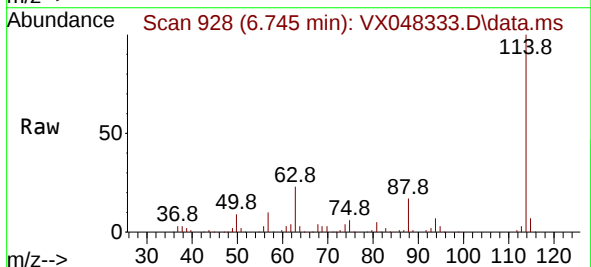
Instrument :
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 ClientSampleId :

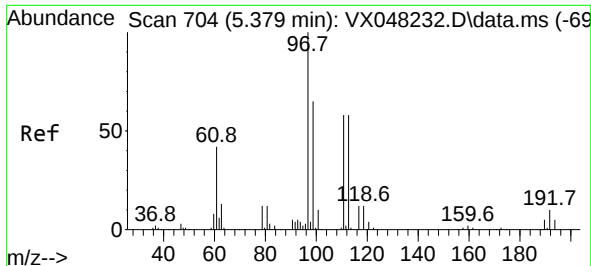
Tgt Ion: 65 Resp: 77990
 Ion Ratio Lower Upper
 65 100
 67 49.5 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.745 min Scan# 928
 Delta R.T. -0.000 min
 Lab File: VX048333.D
 Acq: 23 Oct 2025 17:51

Tgt Ion: 114 Resp: 201336
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 43.2
 88 17.3 0.0 33.6

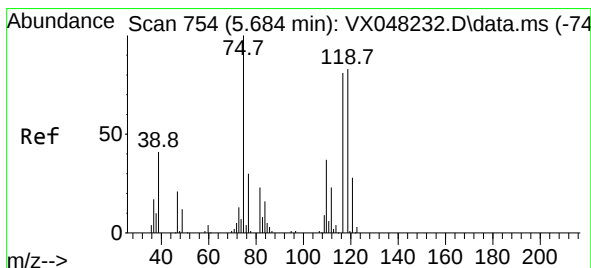
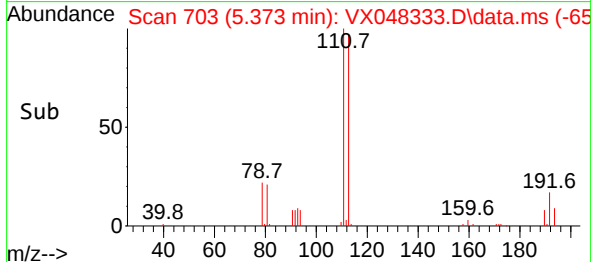
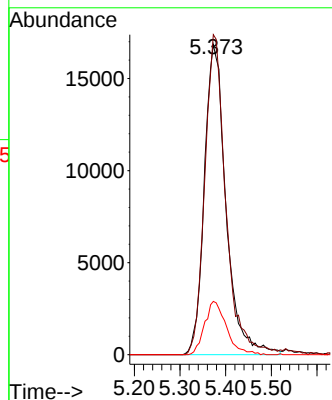
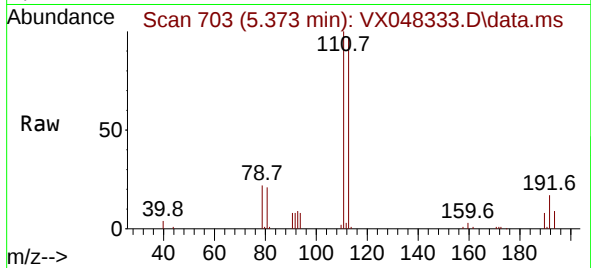




#35
Dibromofluoromethane
Concen: 40.425 ug/l
RT: 5.373 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX048333.D
Acq: 23 Oct 2025 17:51

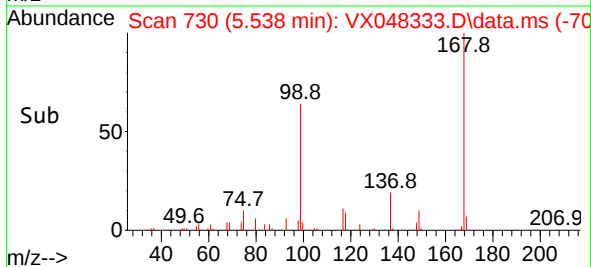
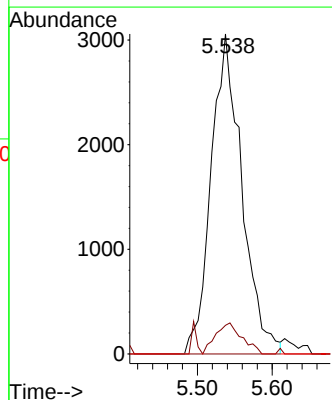
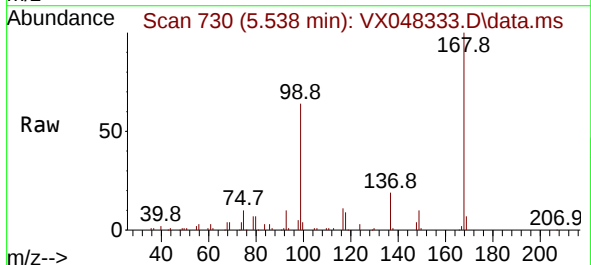
Instrument :
MSVOA_X
ClientSampleId :

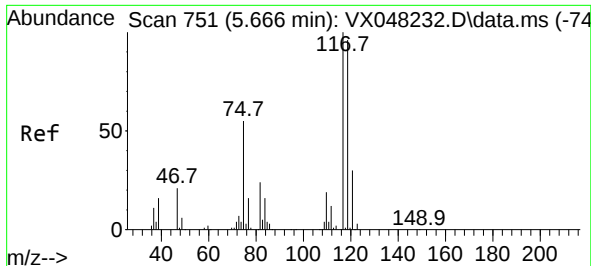
Tgt Ion:113 Resp: 55565
Ion Ratio Lower Upper
113 100
111 99.9 82.2 123.4
192 17.3 15.1 22.7



#36
1,1-Dichloropropene
Concen: 4.478 ug/l
RT: 5.538 min Scan# 730
Delta R.T. -0.146 min
Lab File: VX048333.D
Acq: 23 Oct 2025 17:51

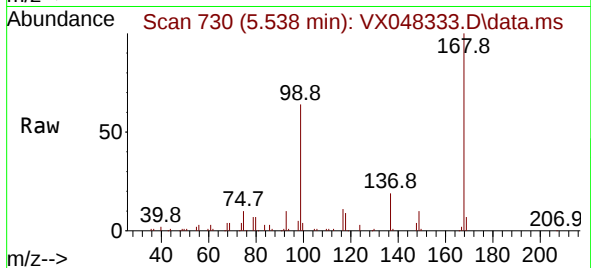
Tgt Ion: 75 Resp: 8748
Ion Ratio Lower Upper
75 100
110 8.3 17.7 53.1#
77 0.0 24.3 36.5#



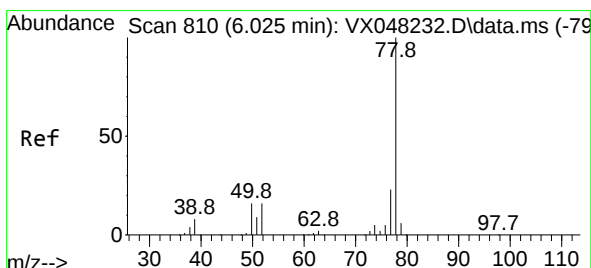
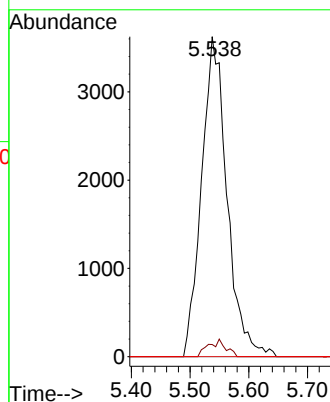
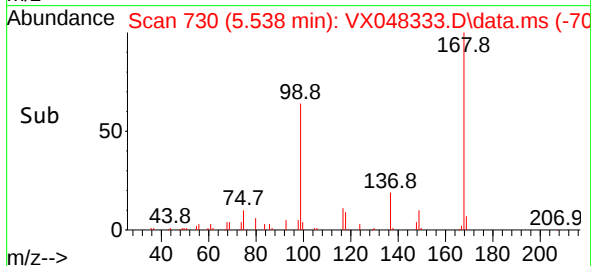


#38
Carbon Tetrachloride
Concen: 4.518 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.128 min
Lab File: VX048333.D
Acq: 23 Oct 2025 17:51

Instrument :
MSVOA_X
ClientSampleId :

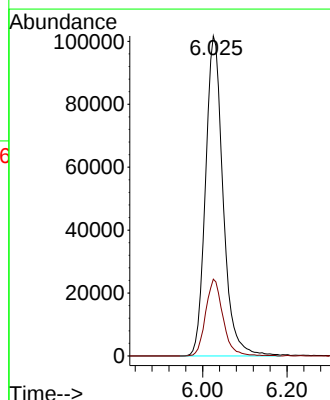
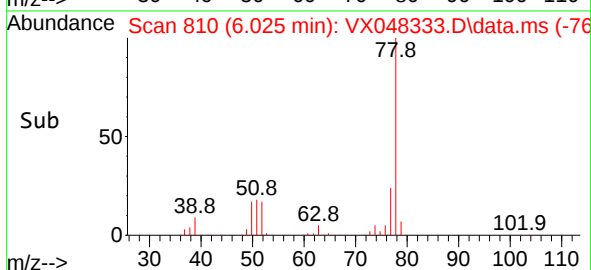
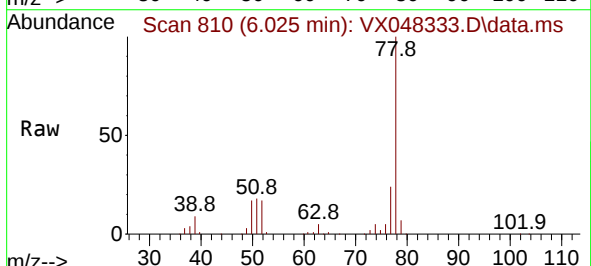


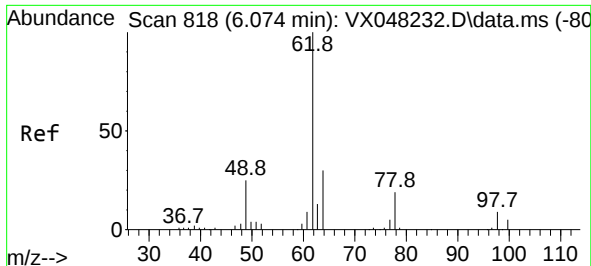
Tgt Ion:117 Resp: 10889
Ion Ratio Lower Upper
117 100
119 3.8 77.2 115.8#
121 0.0 24.8 37.2#



#40
Benzene
Concen: 52.005 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX048333.D
Acq: 23 Oct 2025 17:51

Tgt Ion: 78 Resp: 294976
Ion Ratio Lower Upper
78 100
77 24.0 19.3 28.9





#42

1,2-Dichloroethane

Concen: 1.332 ug/l

RT: 6.019 min Scan# 80

Delta R.T. -0.049 min

Lab File: VX048333.D

Acq: 23 Oct 2025 17:51

Instrument :

MSVOA_X

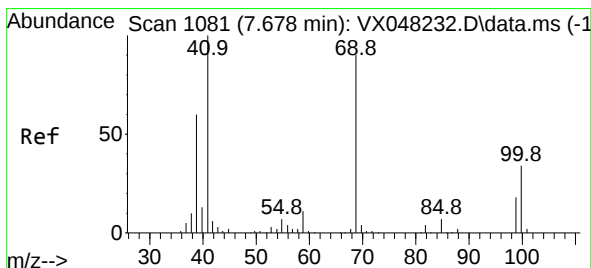
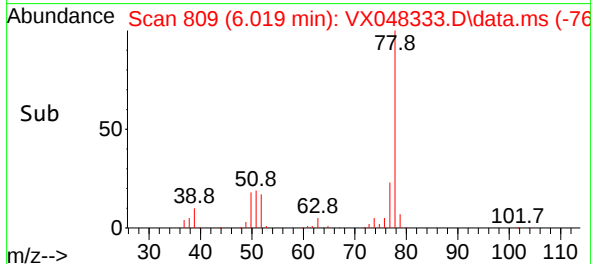
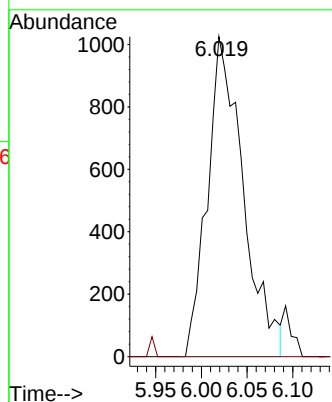
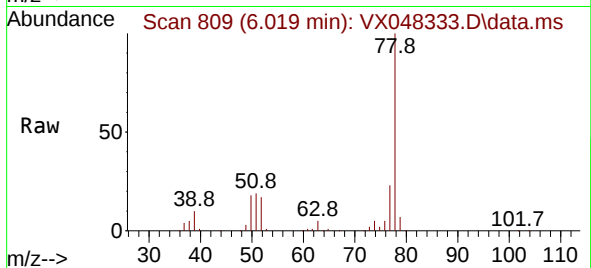
ClientSampleId :

Tgt Ion: 62 Resp: 2787

Ion Ratio Lower Upper

62 100

98 0.0 0.0 17.2



#48

Methyl methacrylate

Concen: 0.533 ug/l

RT: 7.793 min Scan# 1100

Delta R.T. 0.116 min

Lab File: VX048333.D

Acq: 23 Oct 2025 17:51

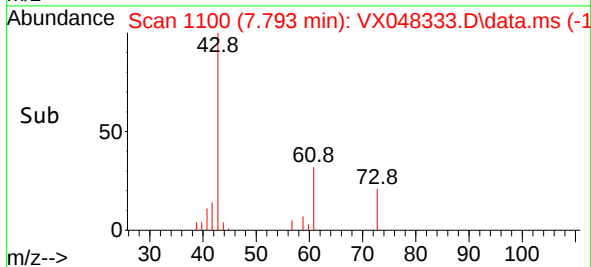
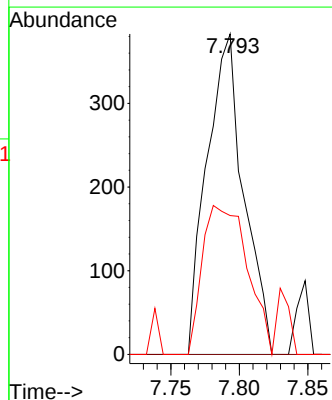
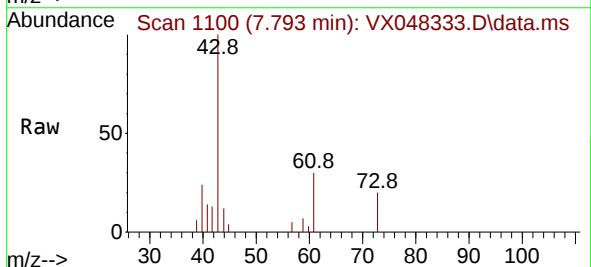
Tgt Ion: 41 Resp: 716

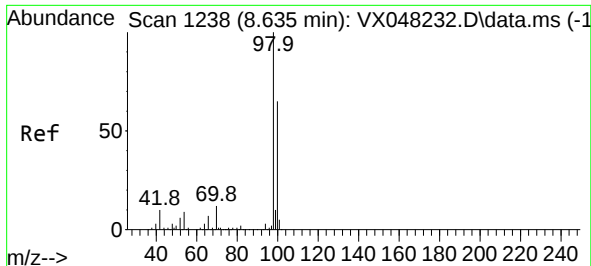
Ion Ratio Lower Upper

41 100

69 0.0 63.4 95.0#

39 56.8 47.1 70.7

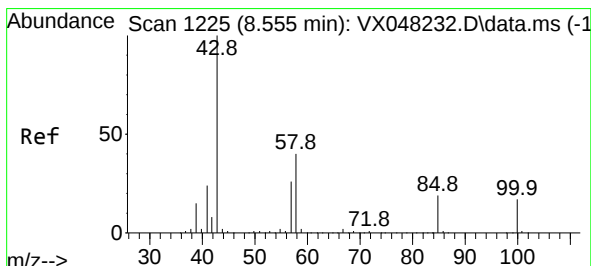
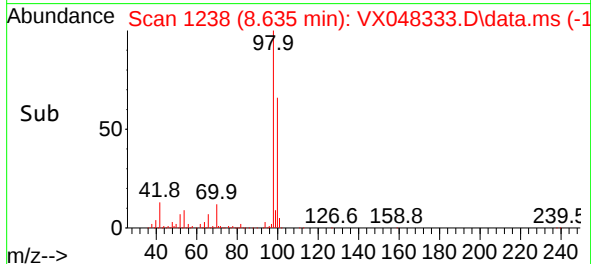
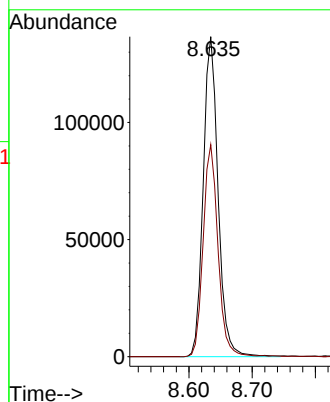
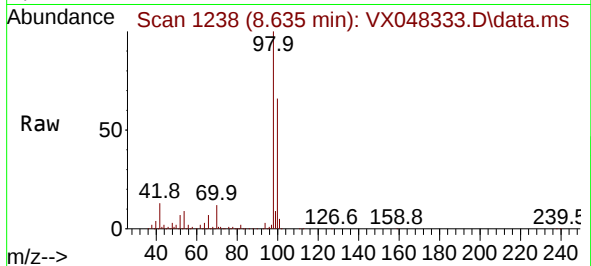




#50
Toluene-d8
Concen: 46.461 ug/l
RT: 8.635 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048333.D
Acq: 23 Oct 2025 17:51

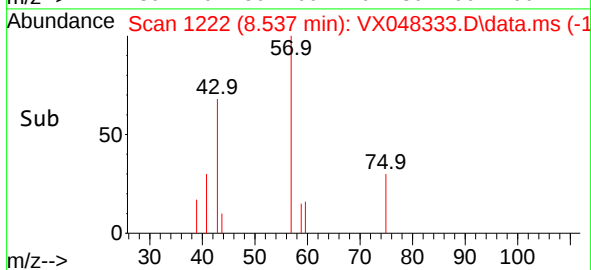
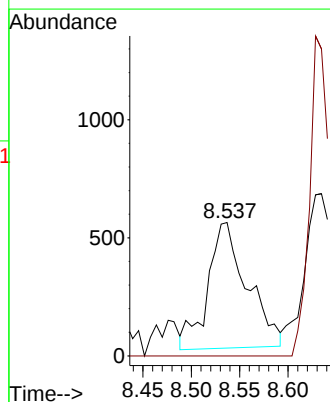
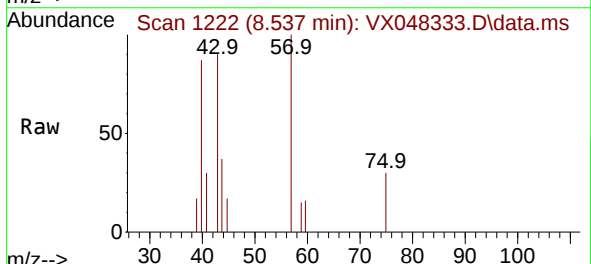
Instrument :
MSVOA_X
ClientSampleId :

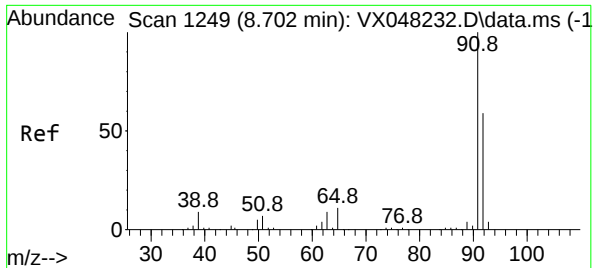
Tgt Ion: 98 Resp: 223840
Ion Ratio Lower Upper
98 100
100 66.3 53.0 79.4



#51
4-Methyl-2-Pentanone
Concen: 0.983 ug/l
RT: 8.537 min Scan# 1222
Delta R.T. -0.018 min
Lab File: VX048333.D
Acq: 23 Oct 2025 17:51

Tgt Ion: 43 Resp: 1508
Ion Ratio Lower Upper
43 100
58 0.0 29.5 44.3#

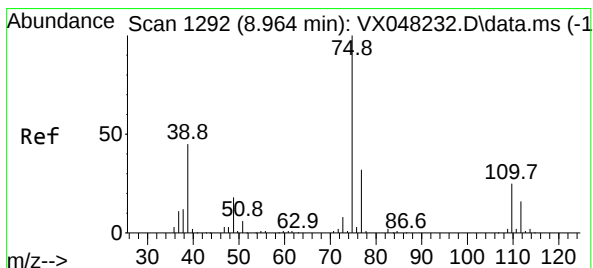
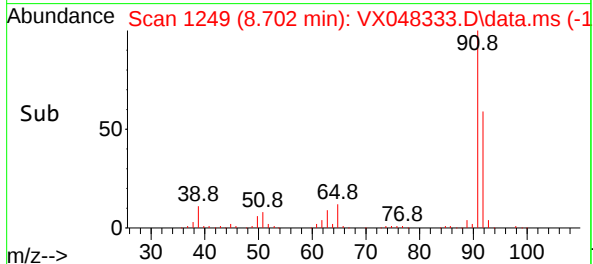
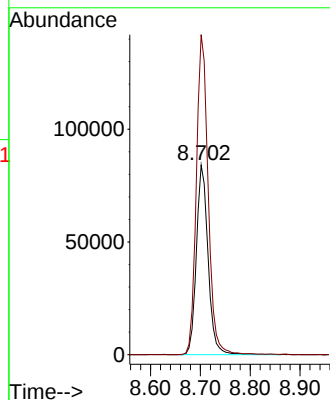
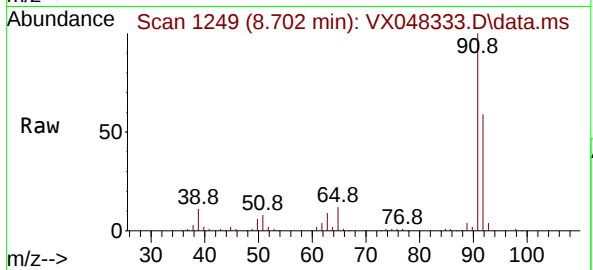




#52
Toluene
Concen: 38.046 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX048333.D
Acq: 23 Oct 2025 17:51

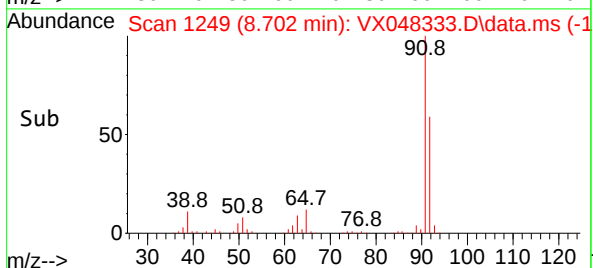
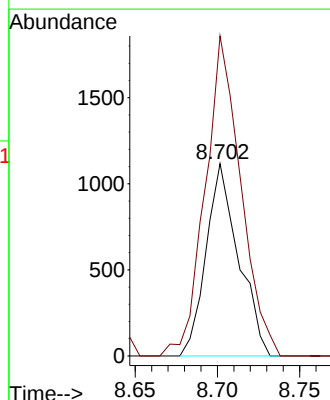
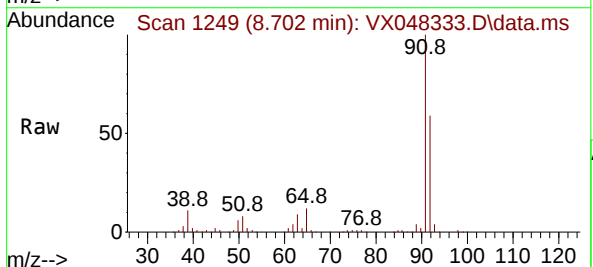
Instrument :
MSVOA_X
ClientSampleId :

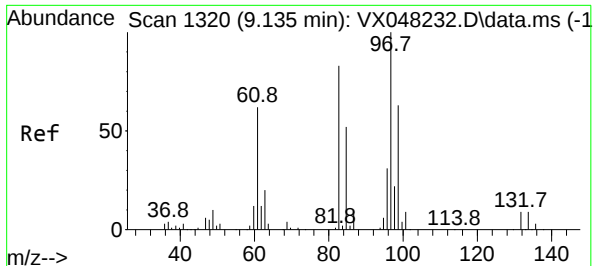
Tgt Ion: 92 Resp: 137094
Ion Ratio Lower Upper
92 100
91 170.5 136.1 204.1



#53
t-1,3-Dichloropropene
Concen: 0.703 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.262 min
Lab File: VX048333.D
Acq: 23 Oct 2025 17:51

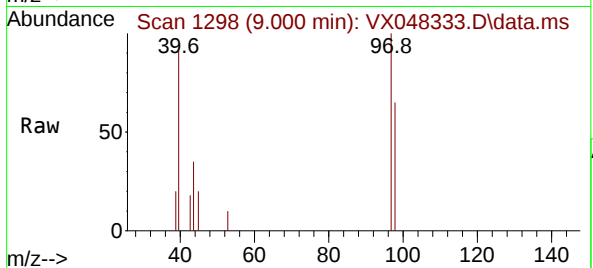
Tgt Ion: 75 Resp: 1536
Ion Ratio Lower Upper
75 100
77 166.4 25.0 37.6#



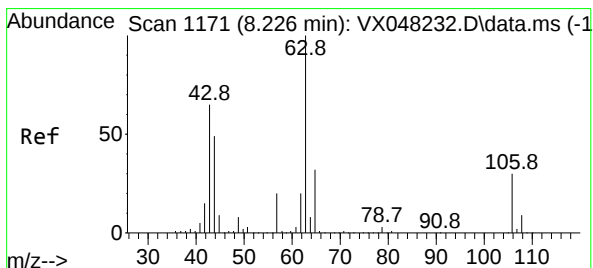
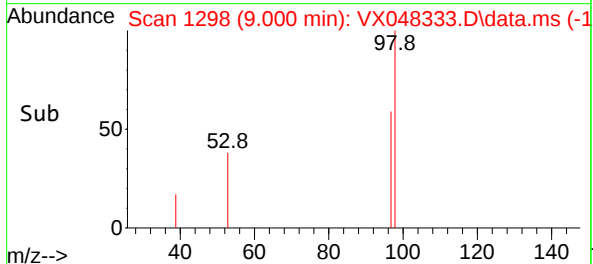
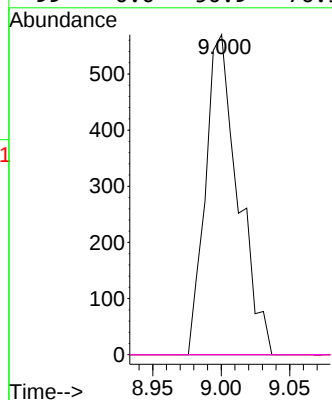


#55
 1,1,2-Trichloroethane
 Concen: 0.707 ug/l
 RT: 9.000 min Scan# 1173
 Delta R.T. -0.134 min
 Lab File: VX048333.D
 Acq: 23 Oct 2025 17:51

Instrument :
 MSVOA_X
 ClientSampleId :

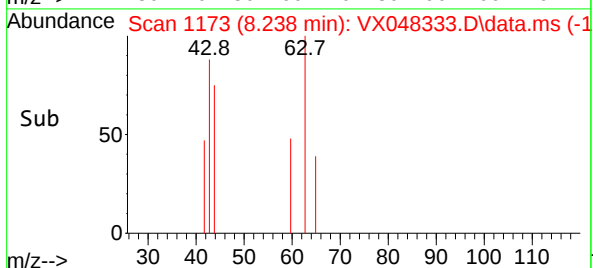
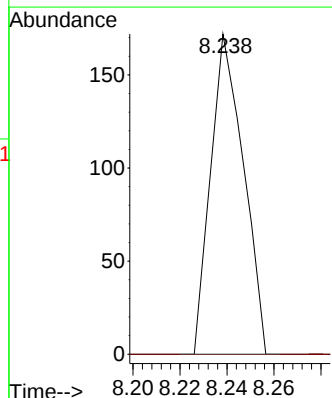
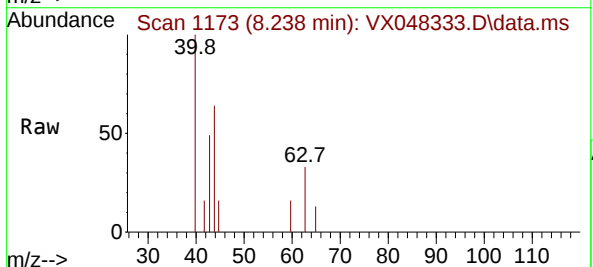


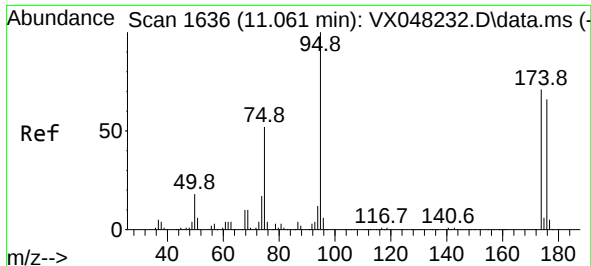
Tgt Ion: 97	Resp: 947
Ion Ratio	Lower Upper
97 100	
83 0.0	70.6 105.8#
85 0.0	45.0 67.6#
99 0.0	50.9 76.3#



#58
 2-Chloroethyl Vinyl ether
 Concen: 1.854 ug/l
 RT: 8.238 min Scan# 1173
 Delta R.T. 0.012 min
 Lab File: VX048333.D
 Acq: 23 Oct 2025 17:51

Tgt Ion: 63	Resp: 166		
Ion Ratio	Lower	Upper	
63 100			
106 0.0	22.2	33.2#	

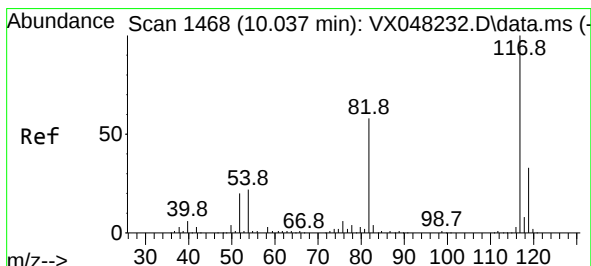
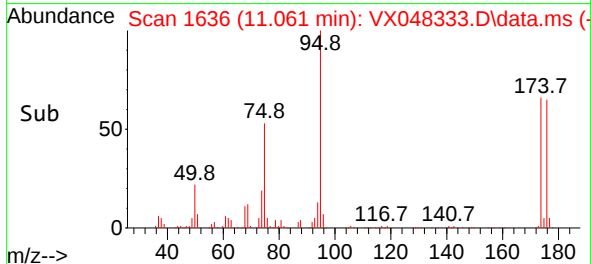
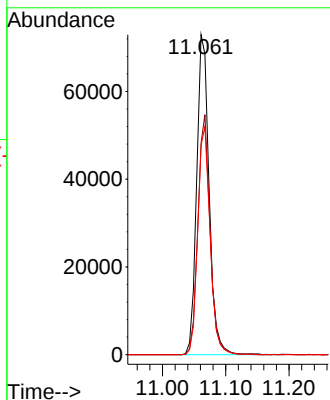
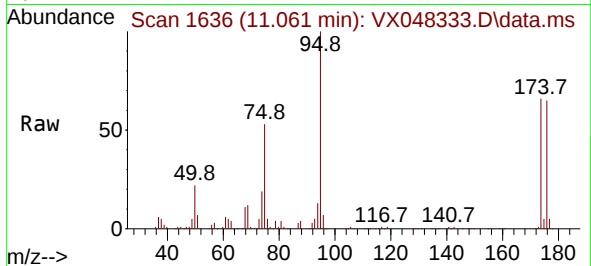




#62
4-Bromofluorobenzene
Concen: 54.401 ug/l
RT: 11.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048333.D
Acq: 23 Oct 2025 17:51

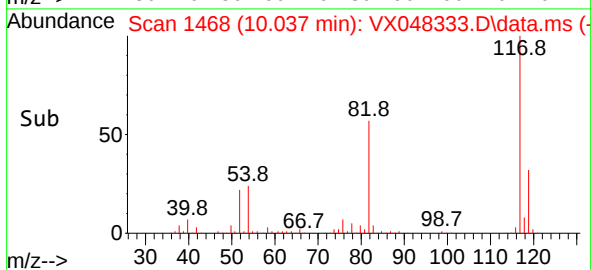
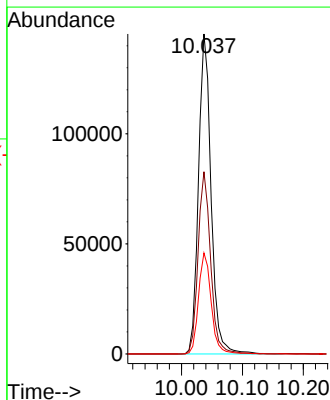
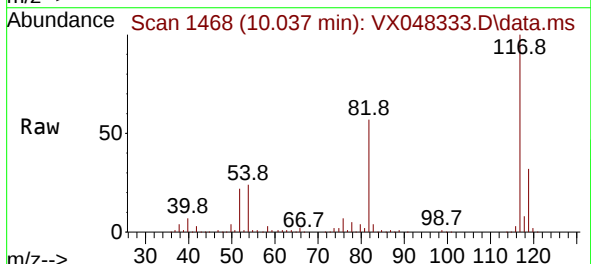
Instrument :
MSVOA_X
ClientSampleId :

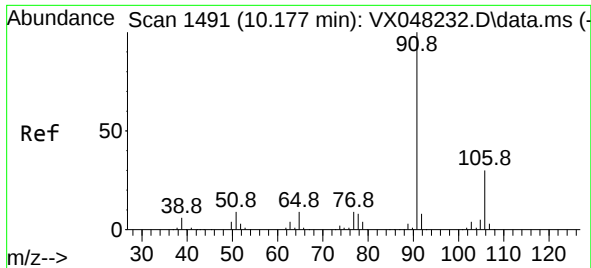
Tgt Ion: 95 Resp: 99708
Ion Ratio Lower Upper
95 100
174 73.3 0.0 147.8
176 71.0 0.0 142.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048333.D
Acq: 23 Oct 2025 17:51

Tgt Ion: 117 Resp: 207930
Ion Ratio Lower Upper
117 100
82 57.0 46.5 69.7
119 31.6 25.9 38.9





#67

Ethyl Benzene

Concen: 2.152 ug/l

RT: 10.177 min Scan# 1491

Delta R.T. -0.000 min

Lab File: VX048333.D

Acq: 23 Oct 2025 17:51

Instrument :

MSVOA_X

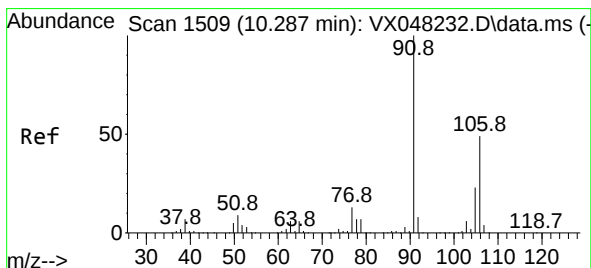
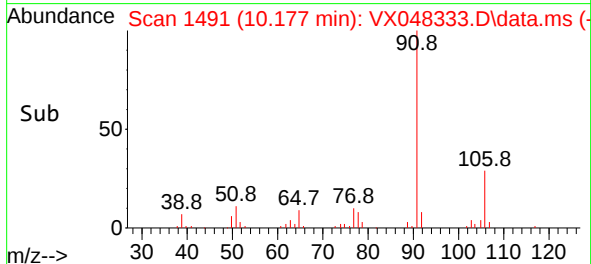
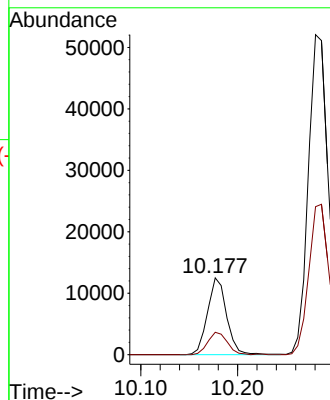
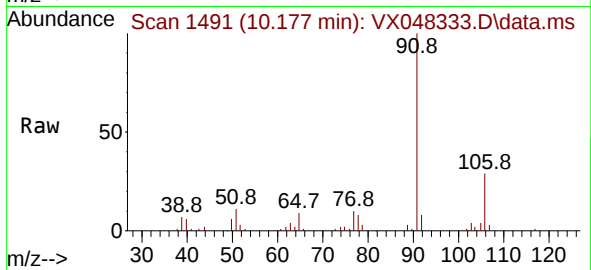
ClientSampleId :

Tgt Ion: 91 Resp: 17141

Ion Ratio Lower Upper

91 100

106 29.2 23.8 35.6



#68

m/p-Xylenes

Concen: 12.238 ug/l

RT: 10.287 min Scan# 1509

Delta R.T. -0.000 min

Lab File: VX048333.D

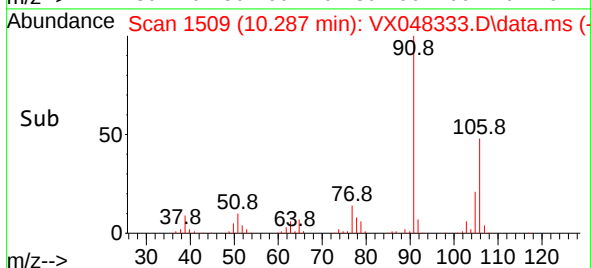
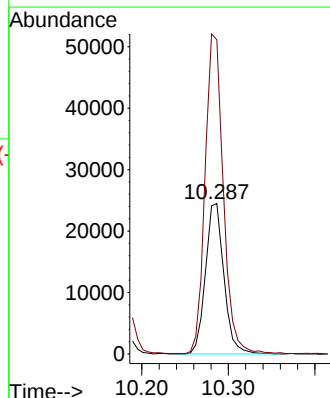
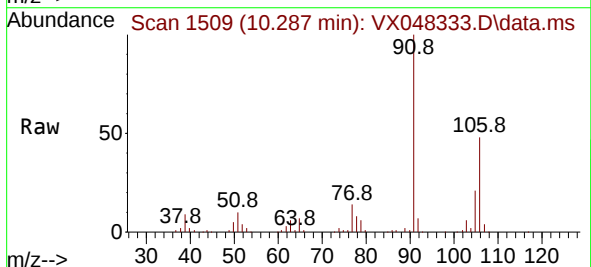
Acq: 23 Oct 2025 17:51

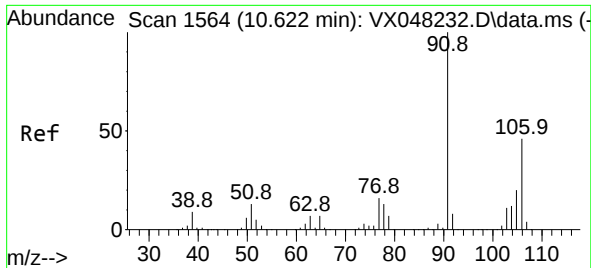
Tgt Ion:106 Resp: 36210

Ion Ratio Lower Upper

106 100

91 210.2 167.9 251.9

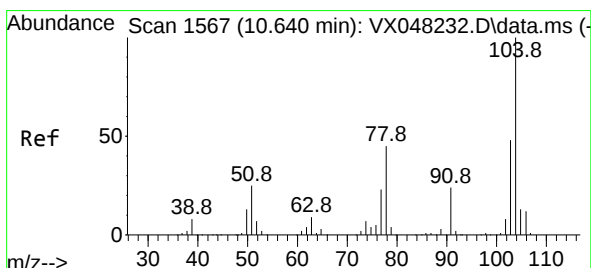
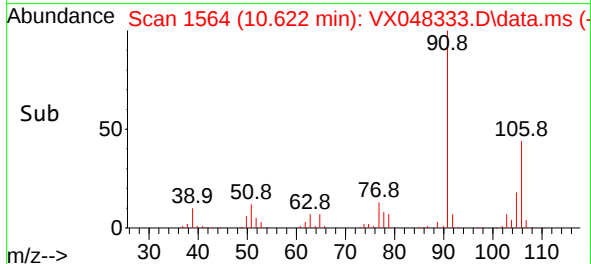
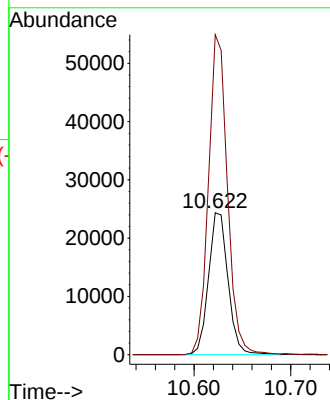
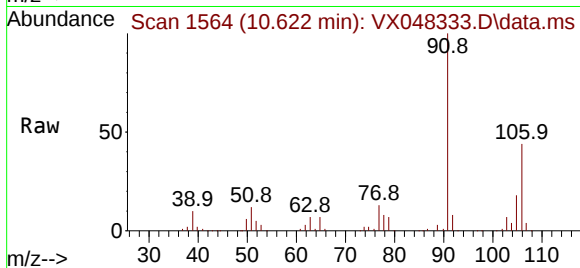




#69
o-Xylene
Concen: 11.960 ug/l
RT: 10.622 min Scan# 1564
Delta R.T. -0.000 min
Lab File: VX048333.D
Acq: 23 Oct 2025 17:51

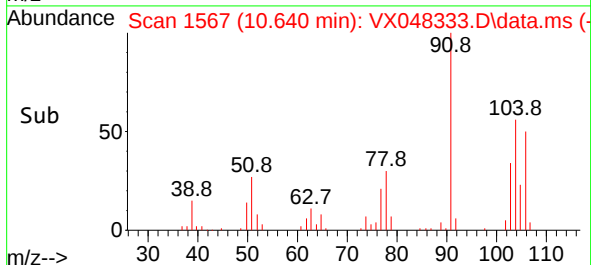
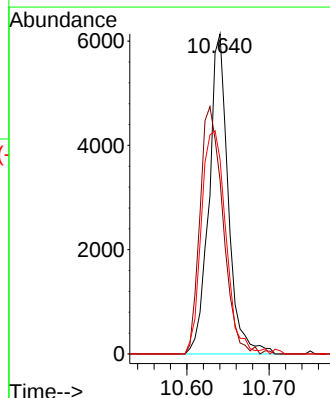
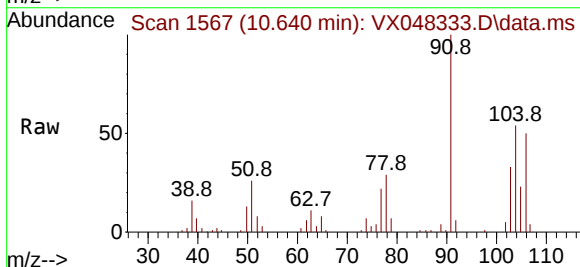
Instrument :
MSVOA_X
ClientSampleId :

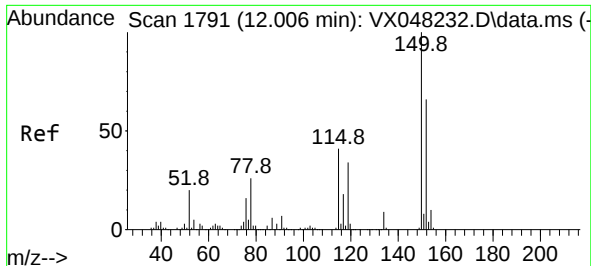
Tgt Ion:106 Resp: 34165
Ion Ratio Lower Upper
106 100
91 219.6 111.3 333.9



#70
Styrene
Concen: 2.053 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX048333.D
Acq: 23 Oct 2025 17:51

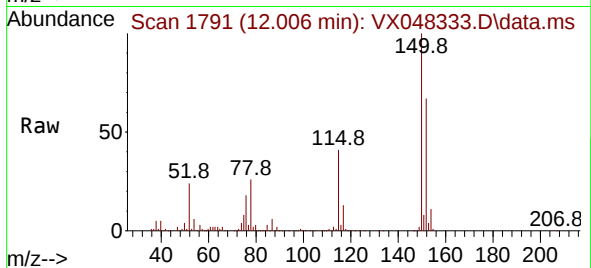
Tgt Ion:104 Resp: 9987
Ion Ratio Lower Upper
104 100
78 92.1 42.2 63.4#
103 88.9 43.0 64.4#



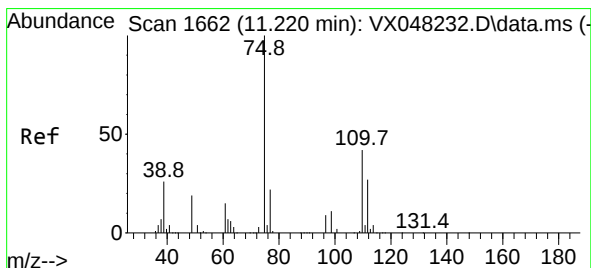
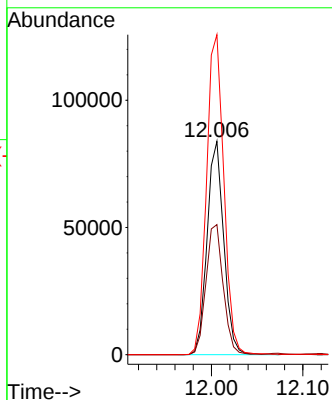
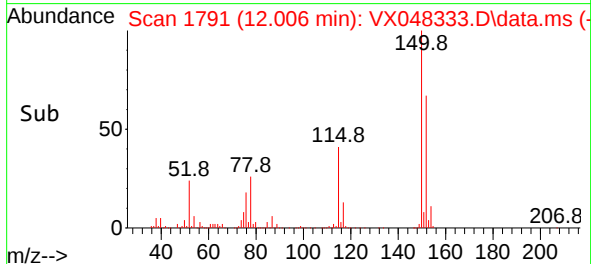


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048333.D
Acq: 23 Oct 2025 17:51

Instrument :
MSVOA_X
ClientSampleId :

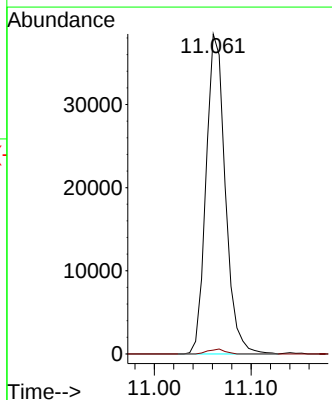
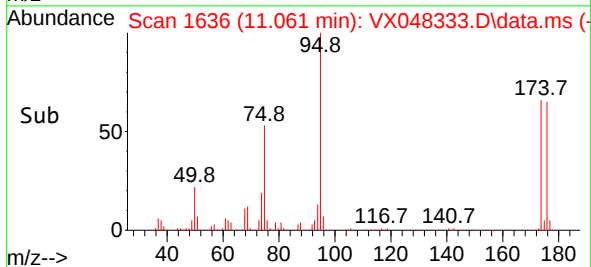
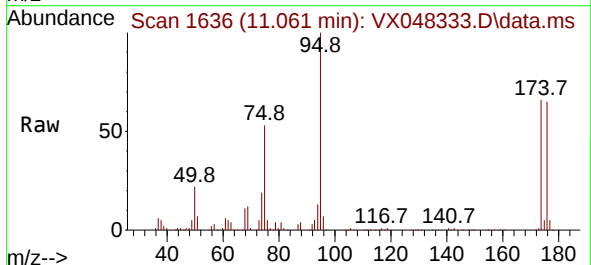


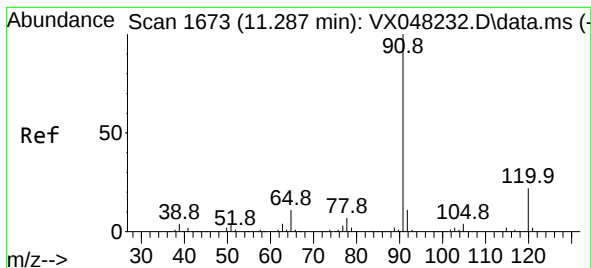
Tgt Ion:152 Resp: 105814
Ion Ratio Lower Upper
152 100
115 63.3 43.1 129.4
150 155.6 0.0 353.0



#76
1,2,3-Trichloropropane
Concen: 31.010 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.159 min
Lab File: VX048333.D
Acq: 23 Oct 2025 17:51

Tgt Ion: 75 Resp: 53211
Ion Ratio Lower Upper
75 100
77 1.4 22.4 67.2#





#78

n-propylbenzene

Concen: 0.245 ug/l

RT: 11.286 min Scan# 1673

Delta R.T. -0.000 min

Lab File: VX048333.D

Acq: 23 Oct 2025 17:51

Instrument :

MSVOA_X

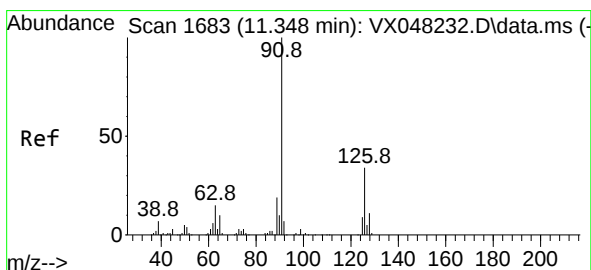
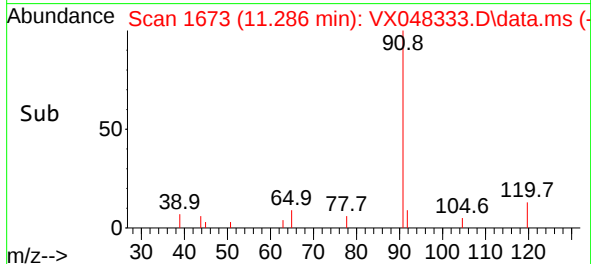
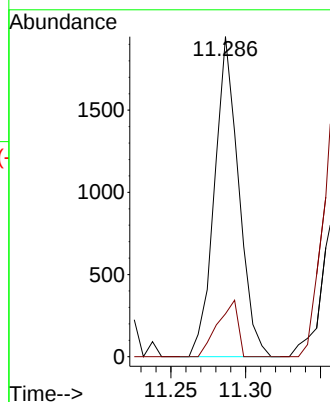
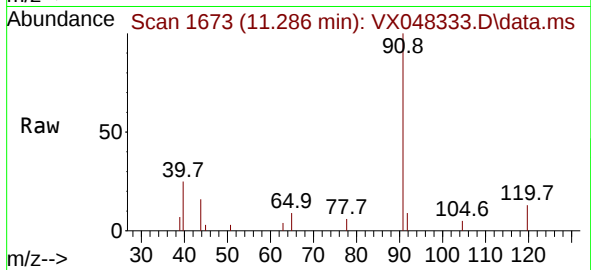
ClientSampleId :

Tgt Ion: 91 Resp: 2195

Ion Ratio Lower Upper

91 100

120 14.8 11.1 33.1



#79

2-Chlorotoluene

Concen: 0.284 ug/l

RT: 11.360 min Scan# 1685

Delta R.T. 0.012 min

Lab File: VX048333.D

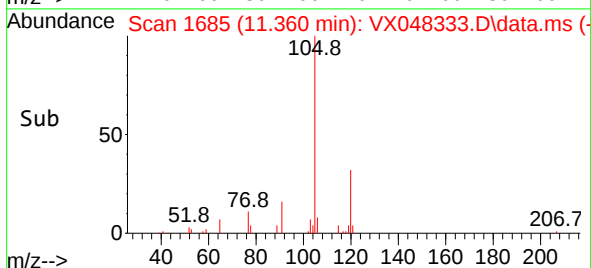
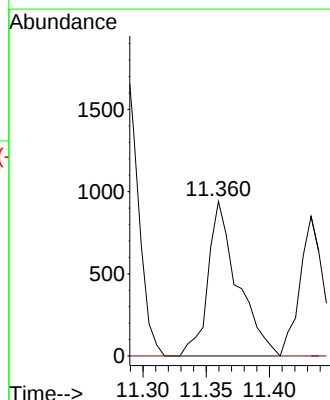
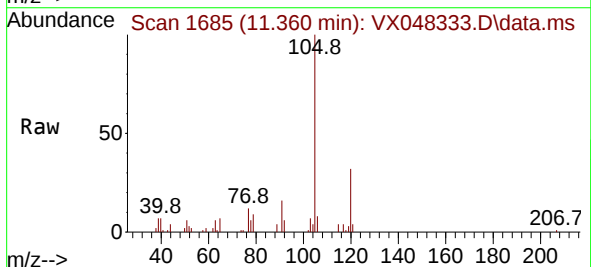
Acq: 23 Oct 2025 17:51

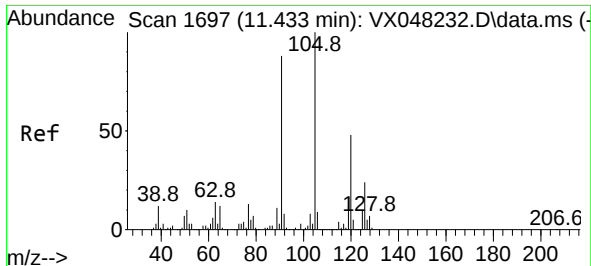
Tgt Ion: 91 Resp: 1539

Ion Ratio Lower Upper

91 100

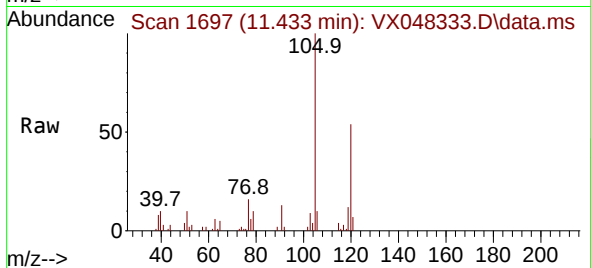
126 0.0 16.4 49.4#



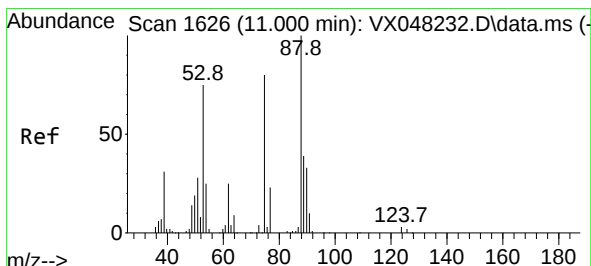
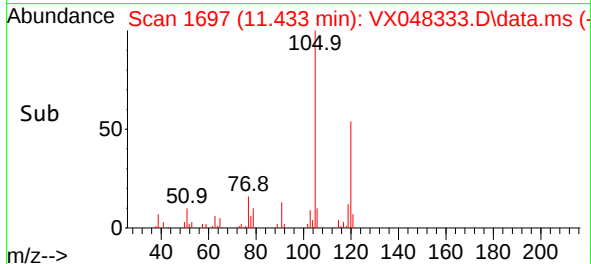
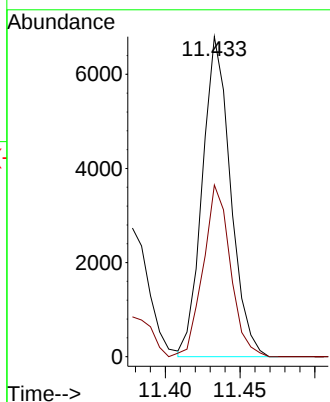


#80
1,3,5-Trimethylbenzene
Concen: 1.395 ug/l
RT: 11.433 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048333.D
Acq: 23 Oct 2025 17:51

Instrument :
MSVOA_X
ClientSampleId :

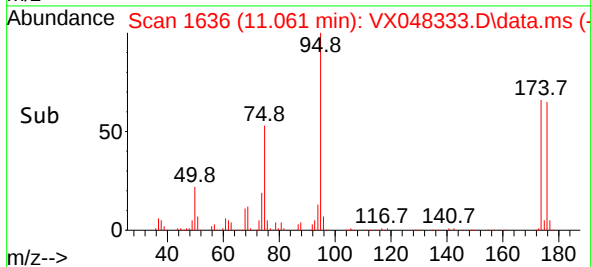
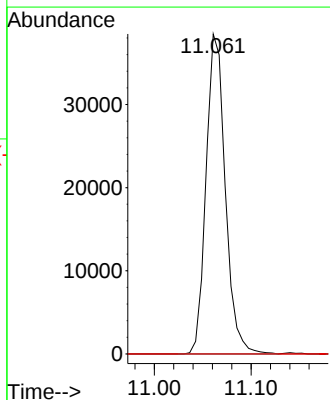
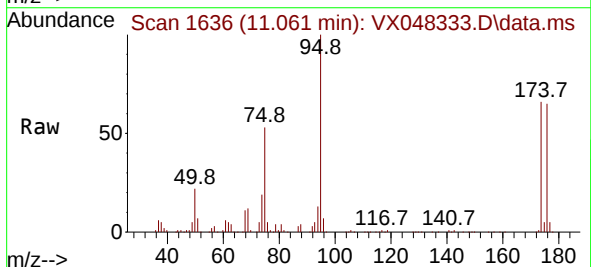


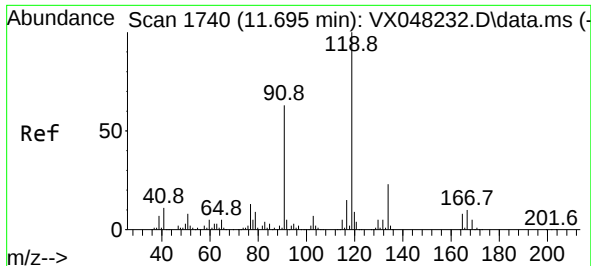
Tgt Ion:105 Resp: 8920
Ion Ratio Lower Upper
105 100
120 51.6 24.0 72.0



#81
trans-1,4-Dichloro-2-butene
Concen: 75.444 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.061 min
Lab File: VX048333.D
Acq: 23 Oct 2025 17:51

Tgt Ion: 75 Resp: 53211
Ion Ratio Lower Upper
75 100
53 0.0 79.5 119.3#
89 0.0 36.8 55.2#





#83

tert-Butylbenzene

Concen: 0.441 ug/l

RT: 11.732 min Scan# 11

Delta R.T. 0.036 min

Lab File: VX048333.D

Acq: 23 Oct 2025 17:51

Instrument :

MSVOA_X

ClientSampleId :

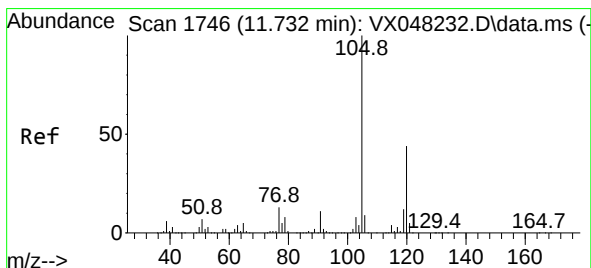
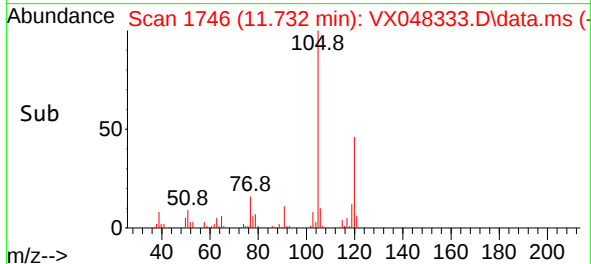
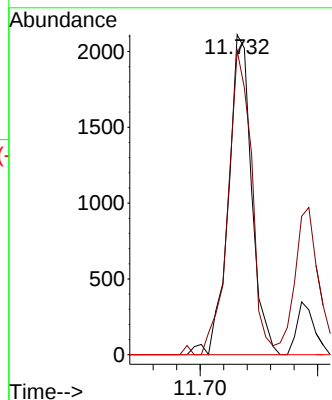
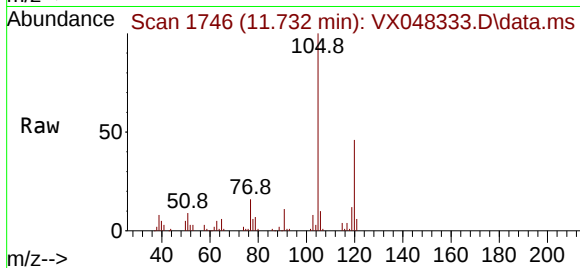
Tgt Ion:119 Resp: 2898

Ion Ratio Lower Upper

119 100

91 96.5 30.3 91.0#

134 0.0 11.4 34.2#



#84

1,2,4-Trimethylbenzene

Concen: 3.838 ug/l

RT: 11.738 min Scan# 1747

Delta R.T. 0.006 min

Lab File: VX048333.D

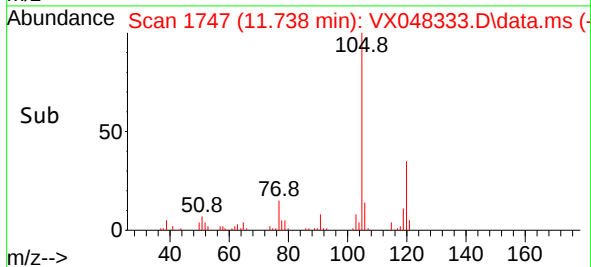
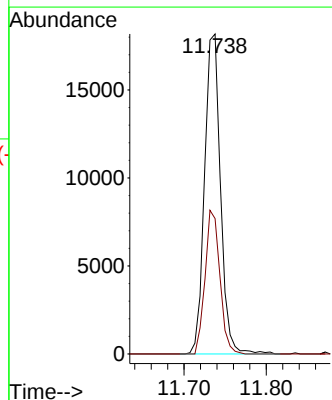
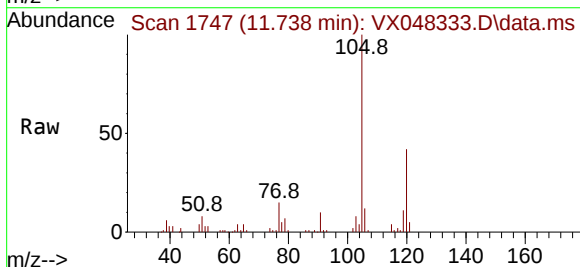
Acq: 23 Oct 2025 17:51

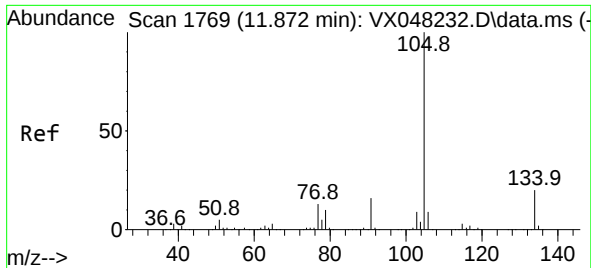
Tgt Ion:105 Resp: 24499

Ion Ratio Lower Upper

105 100

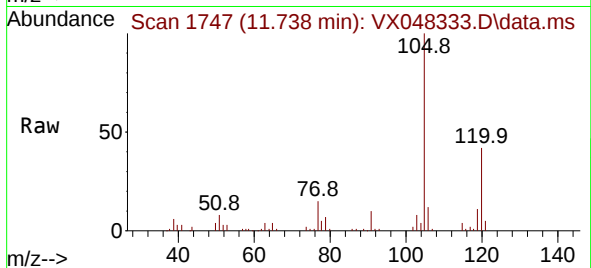
120 41.8 22.1 66.5



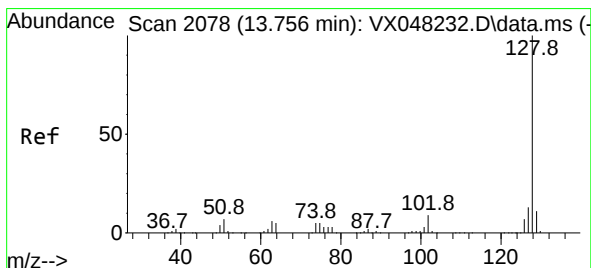
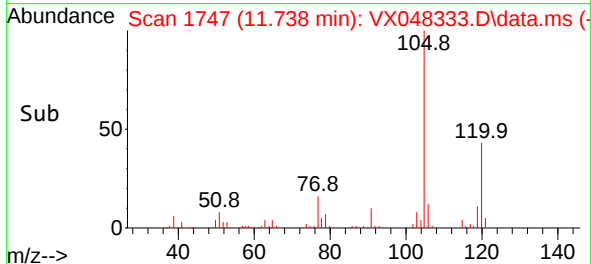
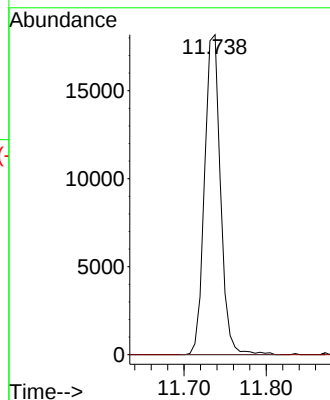


#85
 sec-Butylbenzene
 Concen: 3.099 ug/l
 RT: 11.738 min Scan# 11
 Delta R.T. -0.134 min
 Lab File: VX048333.D
 Acq: 23 Oct 2025 17:51

Instrument :
 MSVOA_X
 ClientSampleId :



Tgt Ion:105 Resp: 24499
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.1 30.1#



#95
 Naphthalene
 Concen: 21.144 ug/l
 RT: 13.756 min Scan# 2078
 Delta R.T. -0.000 min
 Lab File: VX048333.D
 Acq: 23 Oct 2025 17:51

Tgt Ion:128 Resp: 129936
 Ion Ratio Lower Upper
 128 100
 127 12.9 10.2 15.4
 129 11.0 8.6 12.8

