

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102225\
 Data File : VX048307.D
 Acq On : 22 Oct 2025 18:16
 Operator : JC/MD
 Sample : Q3426-04 50X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW2

Quant Time: Oct 24 05:58:02 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)

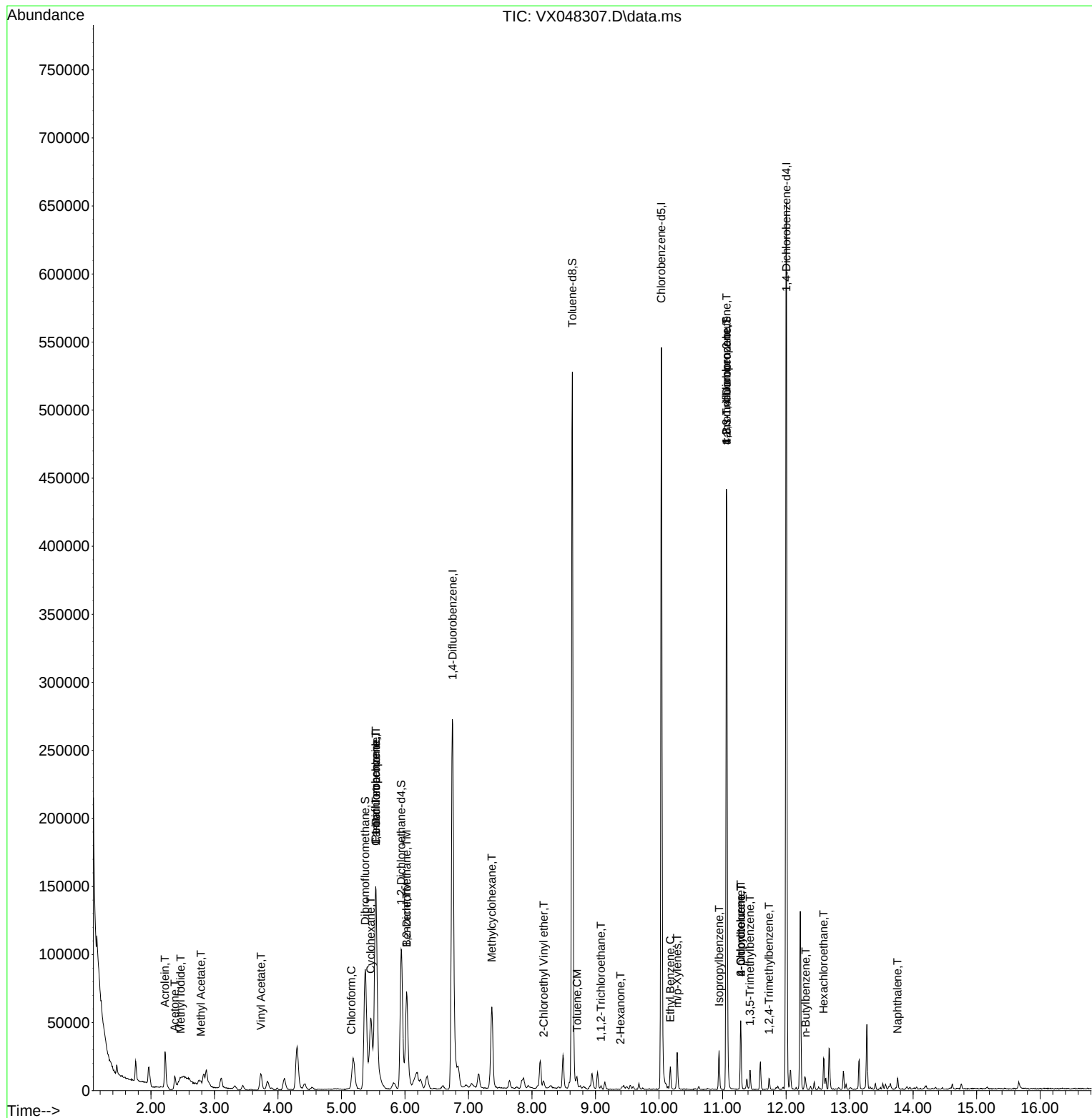
Internal Standards						
1) Pentafluorobenzene	5.538	168	146859	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	304926	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	258598	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	146075	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	112702	54.734	ug/l	0.00
Spiked Amount	50.000	Range 78 - 117	Recovery	= 109.460%		
35) Dibromofluoromethane	5.373	113	85535	41.089	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 82.180%		
50) Toluene-d8	8.635	98	320646	43.944	ug/l	0.00
Spiked Amount	50.000	Range 92 - 112	Recovery	= 87.880%#		
62) 4-Bromofluorobenzene	11.061	95	130855	47.141	ug/l	0.00
Spiked Amount	50.000	Range 83 - 123	Recovery	= 94.280%		
Target Compounds						
					Qvalue	
10) Methyl Iodide	2.465	142	947	0.475	ug/l #	95
13) Acrolein	2.221	56	1004	4.815	ug/l #	1
16) Acetone	2.373	43	13670	19.352	ug/l	98
18) Methyl Acetate	2.788	43	1903	1.290	ug/l #	54
23) Vinyl Acetate	3.733	43	843	0.207	ug/l #	73
30) Chloroform	5.153	83	1481	0.449	ug/l #	19
31) Cyclohexane	5.458	56	39642	15.510	ug/l	95
36) 1,1-Dichloropropene	5.544	75	12192	4.121	ug/l #	48
38) Carbon Tetrachloride	5.544	117	15602	4.274	ug/l #	17
39) Methylcyclohexane	7.367	83	27395	7.840	ug/l	98
40) Benzene	6.025	78	89823	10.456	ug/l	99
42) 1,2-Dichloroethane	6.025	62	688	0.217	ug/l #	76
52) Toluene	8.708	92	3225	0.591	ug/l	96
55) 1,1,2-Trichloroethane	9.086	97	903	0.445	ug/l #	14
58) 2-Chloroethyl Vinyl ether	8.183	63	28	1.715	ug/l #	47
59) 2-Hexanone	9.391	43	449	0.277	ug/l #	26
67) Ethyl Benzene	10.177	91	10017	1.011	ug/l	100
68) m/p-Xylenes	10.287	106	6496	1.765	ug/l	98
73) Isopropylbenzene	10.945	105	14505	1.360	ug/l	99
76) 1,2,3-Trichloropropane	11.061	75	64768	27.342	ug/l #	34
78) n-propylbenzene	11.287	91	30357	2.457	ug/l	96
79) 2-Chlorotoluene	11.287	91	30357	4.053	ug/l #	42
80) 1,3,5-Trimethylbenzene	11.433	105	6313	0.715	ug/l	98
81) trans-1,4-Dichloro-2-b...	11.061	75	64768	66.520	ug/l #	10
82) 4-Chlorotoluene	11.287	91	30357	3.414	ug/l #	46
84) 1,2,4-Trimethylbenzene	11.732	105	4001	0.454	ug/l	98
89) n-Butylbenzene	12.311	91	2229	0.260	ug/l #	53
90) Hexachloroethane	12.591	117	1160	0.623	ug/l #	16
95) Naphthalene	13.756	128	5424	0.639	ug/l #	97

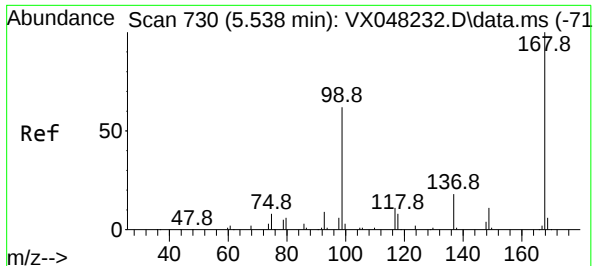
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

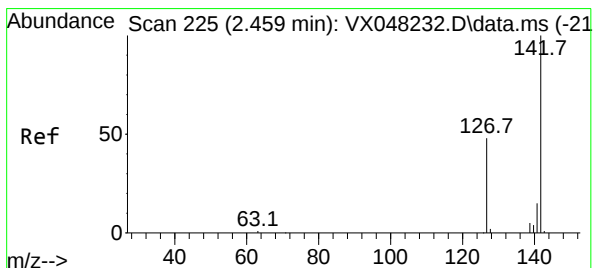
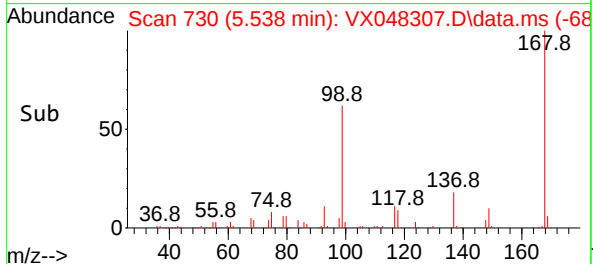
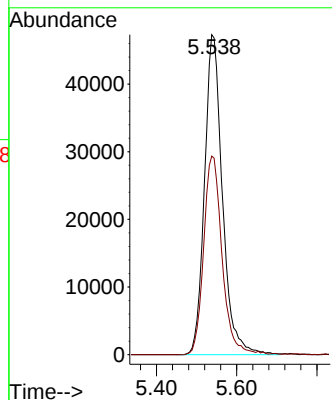
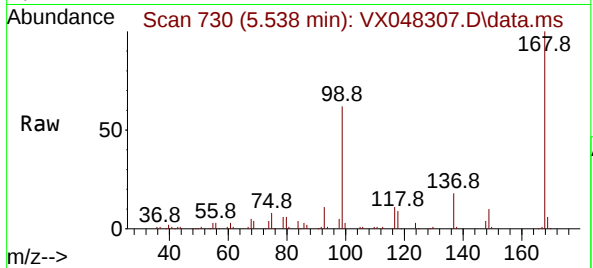




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX048307.D
Acq: 22 Oct 2025 18:16

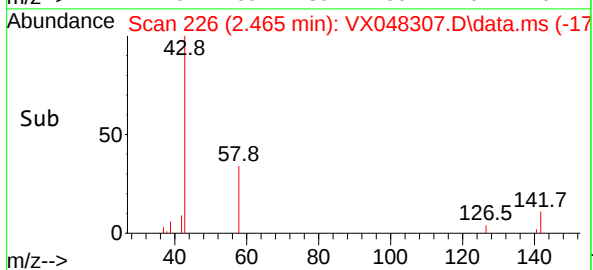
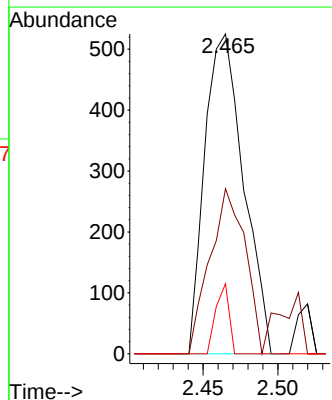
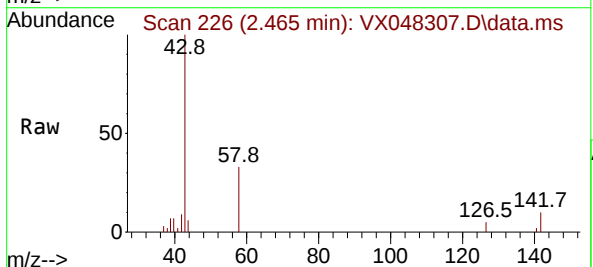
Instrument :
MSVOA_X
ClientSampleId :
MW2

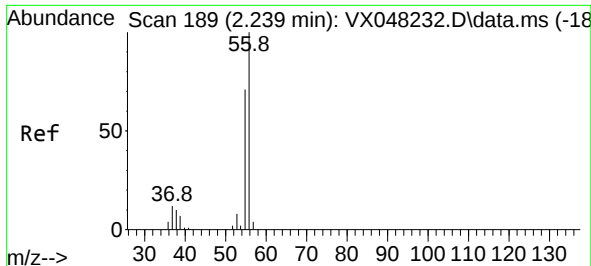
Tgt Ion:168 Resp: 146859
Ion Ratio Lower Upper
168 100
99 62.0 46.4 69.6



#10
Methyl Iodide
Concen: 0.475 ug/l
RT: 2.465 min Scan# 226
Delta R.T. 0.006 min
Lab File: VX048307.D
Acq: 22 Oct 2025 18:16

Tgt Ion:142 Resp: 947
Ion Ratio Lower Upper
142 100
127 47.0 38.5 57.7
141 7.5 11.6 17.4#

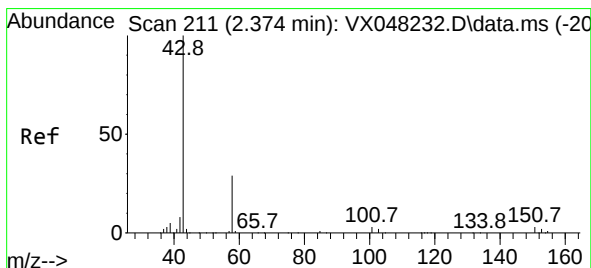
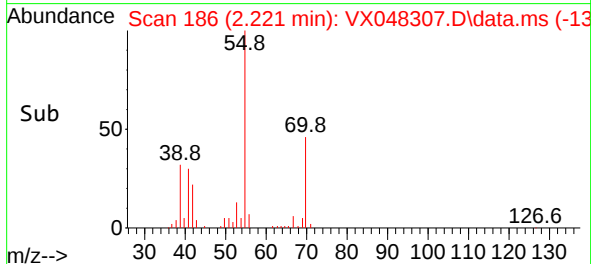
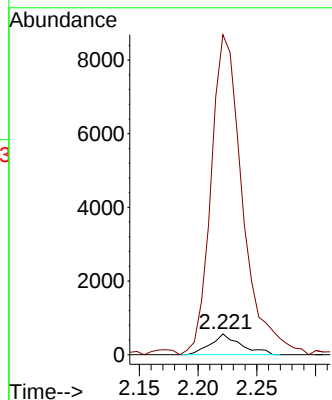
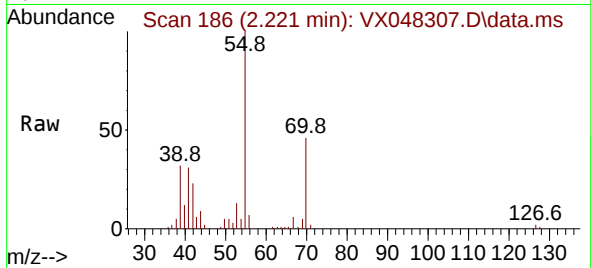




#13
Acrolein
Concen: 4.815 ug/l
RT: 2.221 min Scan# 186
Delta R.T. -0.012 min
Lab File: VX048307.D
Acq: 22 Oct 2025 18:16

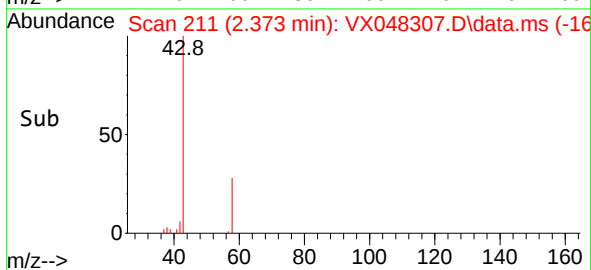
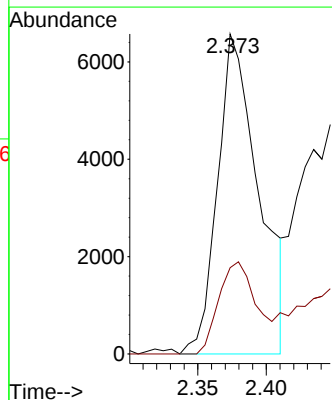
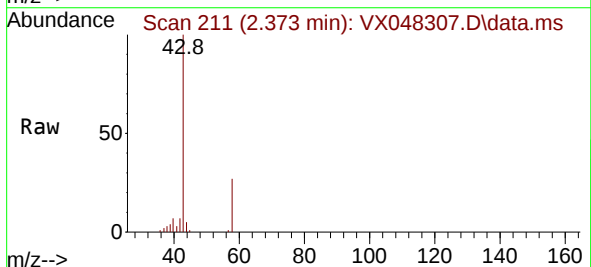
Instrument :
MSVOA_X
ClientSampleId :
MW2

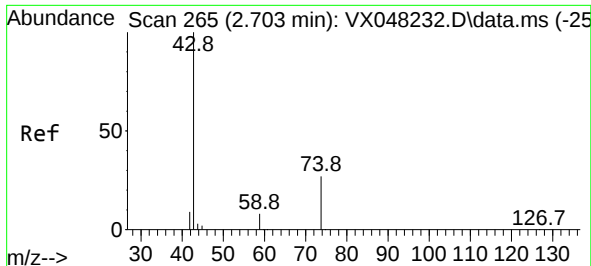
Tgt Ion: 56 Resp: 1004
Ion Ratio Lower Upper
56 100
55 1618.6 56.1 84.1#



#16
Acetone
Concen: 19.352 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX048307.D
Acq: 22 Oct 2025 18:16

Tgt Ion: 43 Resp: 13670
Ion Ratio Lower Upper
43 100
58 28.1 23.4 35.2

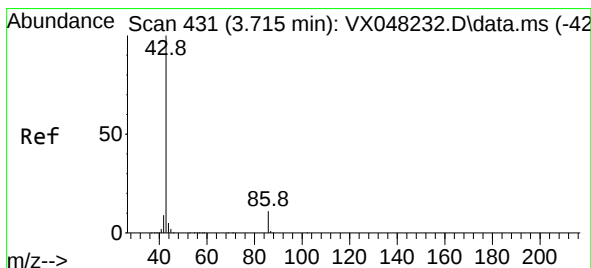
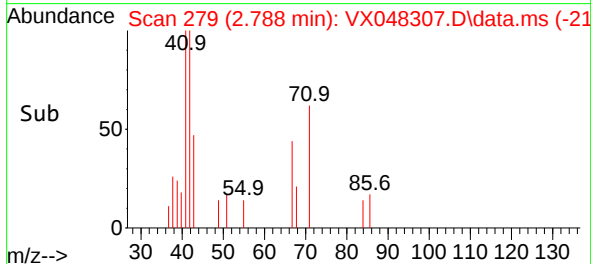
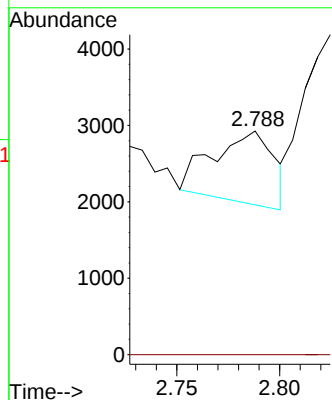
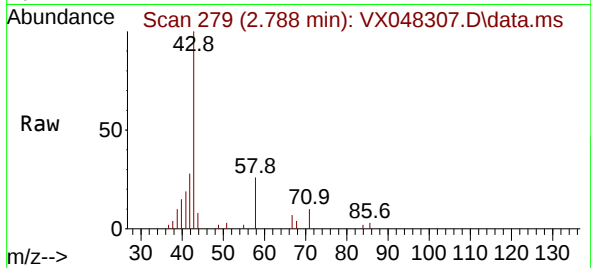




#18
Methyl Acetate
Concen: 1.290 ug/l
RT: 2.788 min Scan# 21
Delta R.T. 0.091 min
Lab File: VX048307.D
Acq: 22 Oct 2025 18:16

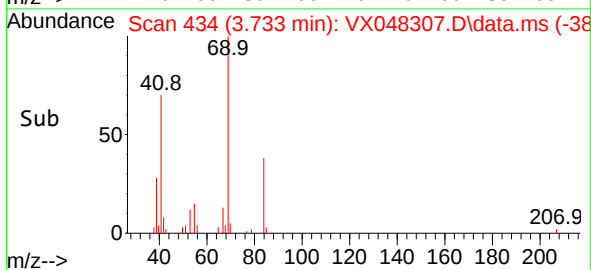
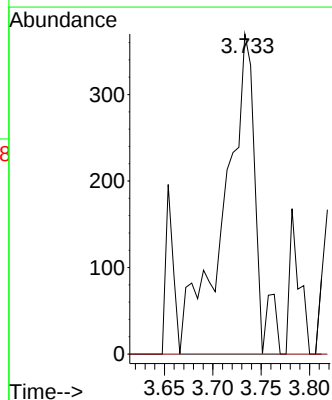
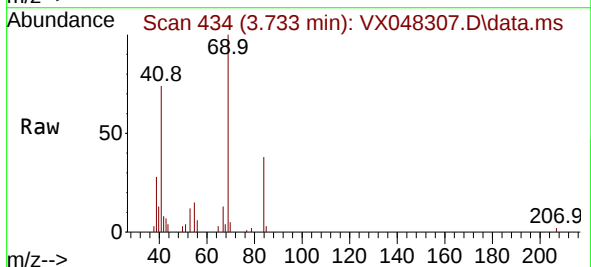
Instrument :
MSVOA_X
ClientSampleId :
MW2

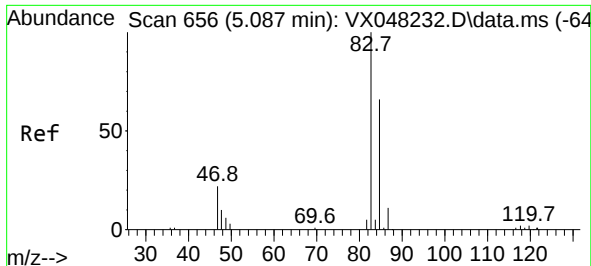
Tgt Ion: 43 Resp: 1903
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#23
Vinyl Acetate
Concen: 0.207 ug/l
RT: 3.733 min Scan# 434
Delta R.T. 0.018 min
Lab File: VX048307.D
Acq: 22 Oct 2025 18:16

Tgt Ion: 43 Resp: 843
Ion Ratio Lower Upper
43 100
86 0.0 7.9 11.9#

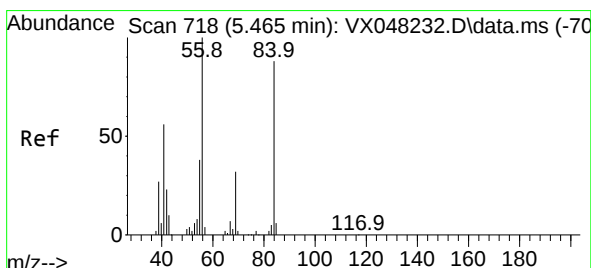
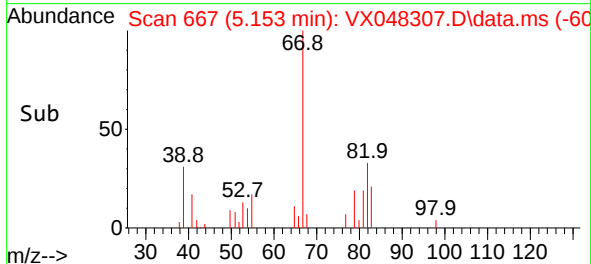
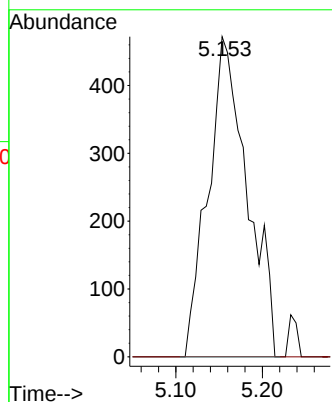
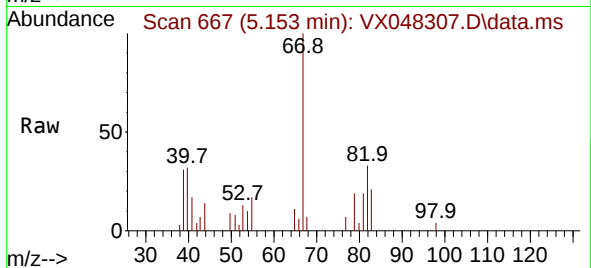




#30
Chloroform
Concen: 0.449 ug/l
RT: 5.153 min Scan# 60
Delta R.T. 0.073 min
Lab File: VX048307.D
Acq: 22 Oct 2025 18:16

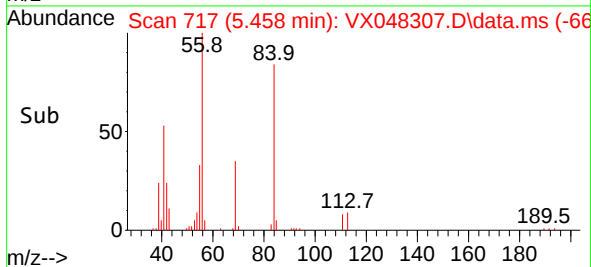
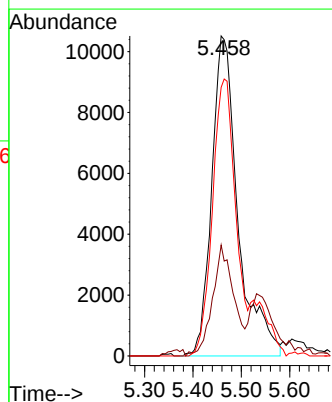
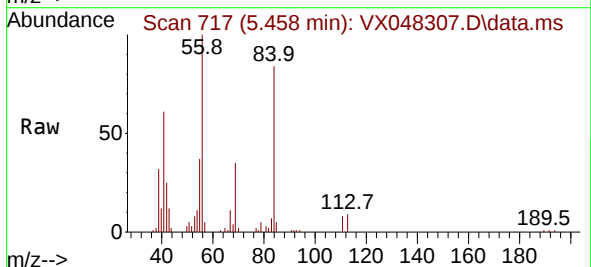
Instrument :
MSVOA_X
ClientSampleId :
MW2

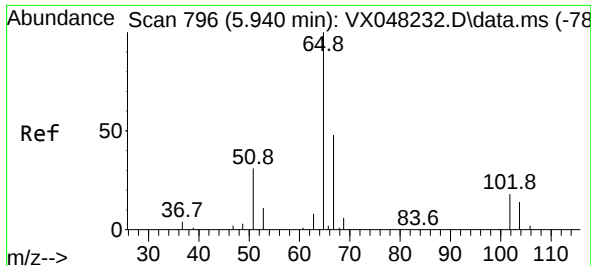
Tgt Ion: 83 Resp: 1481
Ion Ratio Lower Upper
83 100
85 0.0 50.1 75.1#



#31
Cyclohexane
Concen: 15.510 ug/l
RT: 5.458 min Scan# 717
Delta R.T. -0.000 min
Lab File: VX048307.D
Acq: 22 Oct 2025 18:16

Tgt Ion: 56 Resp: 39642
Ion Ratio Lower Upper
56 100
69 33.3 23.0 34.6
84 83.9 64.6 97.0





#33

1,2-Dichloroethane-d4

Concen: 54.734 ug/l

RT: 5.940 min Scan# 796

Delta R.T. -0.000 min

Lab File: VX048307.D

Acq: 22 Oct 2025 18:16

Instrument :

MSVOA_X

ClientSampleId :

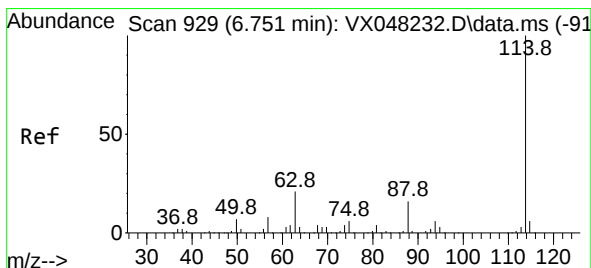
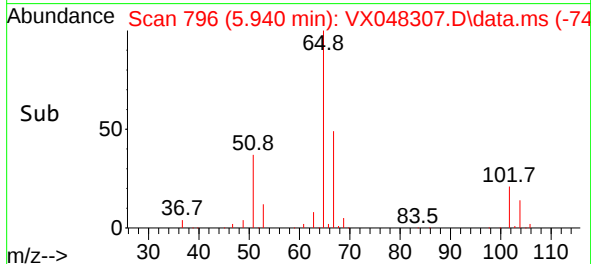
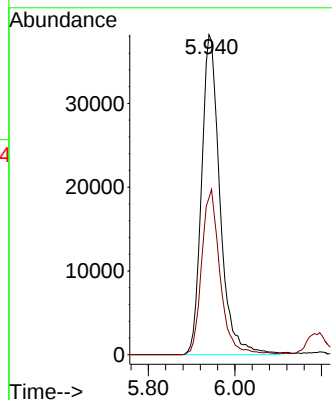
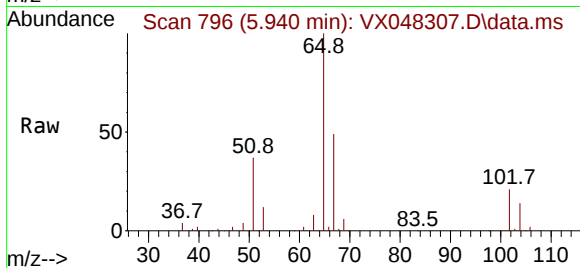
MW2

Tgt Ion: 65 Resp: 112702

Ion Ratio Lower Upper

65 100

67 51.4 0.0 105.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.751 min Scan# 929

Delta R.T. 0.006 min

Lab File: VX048307.D

Acq: 22 Oct 2025 18:16

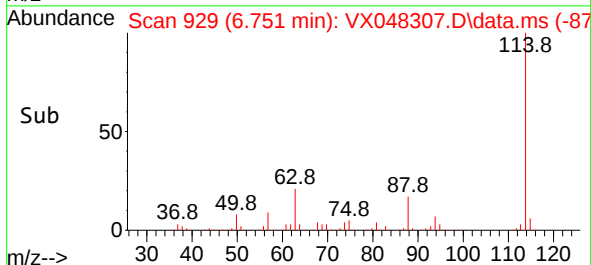
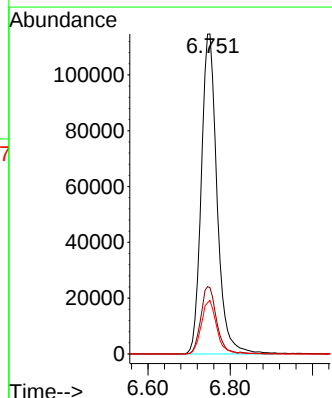
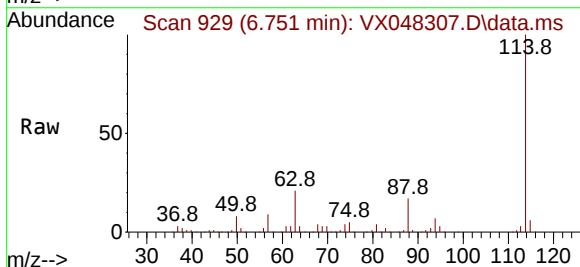
Tgt Ion: 114 Resp: 304926

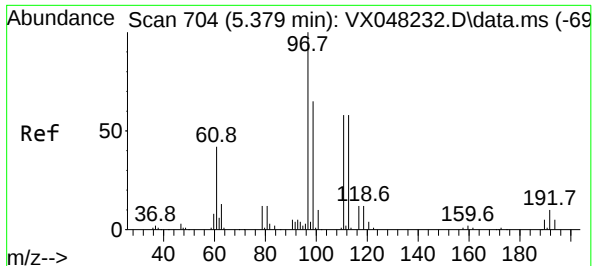
Ion Ratio Lower Upper

114 100

63 20.7 0.0 43.2

88 16.8 0.0 33.6

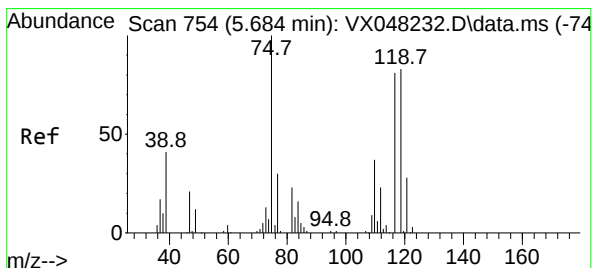
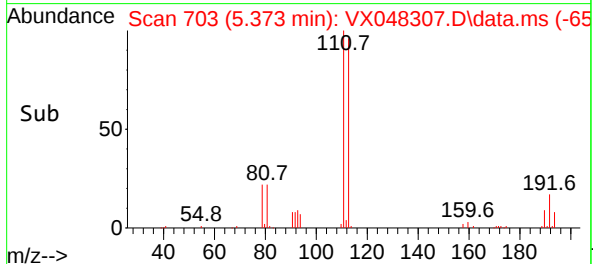
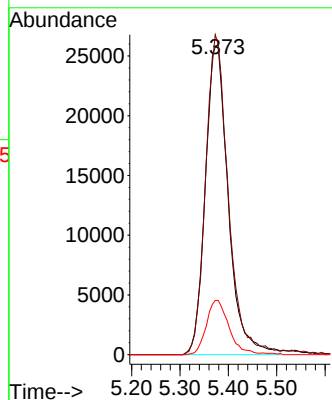
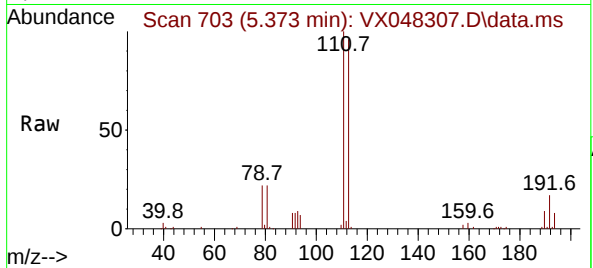




#35
Dibromofluoromethane
Concen: 41.089 ug/l
RT: 5.373 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX048307.D
Acq: 22 Oct 2025 18:16

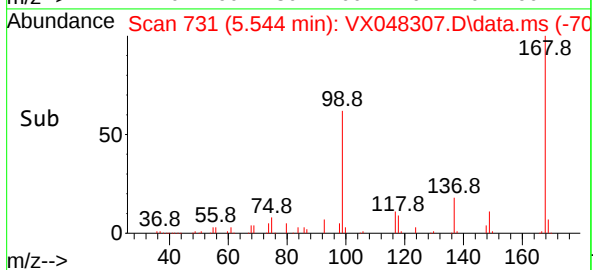
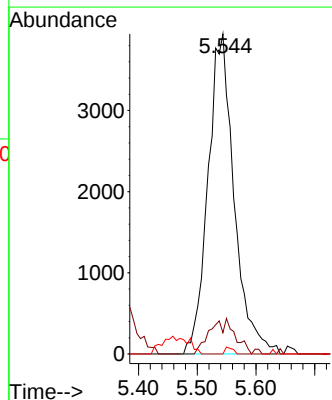
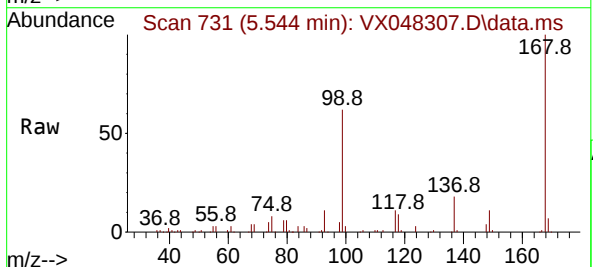
Instrument :
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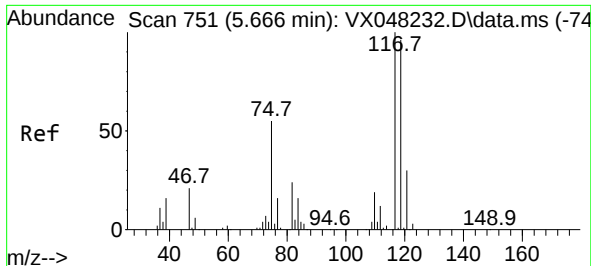
Tgt Ion:113 Resp: 85535
Ion Ratio Lower Upper
113 100
111 102.4 82.2 123.4
192 17.2 15.1 22.7



#36
1,1-Dichloropropene
Concen: 4.121 ug/l
RT: 5.544 min Scan# 731
Delta R.T. -0.140 min
Lab File: VX048307.D
Acq: 22 Oct 2025 18:16

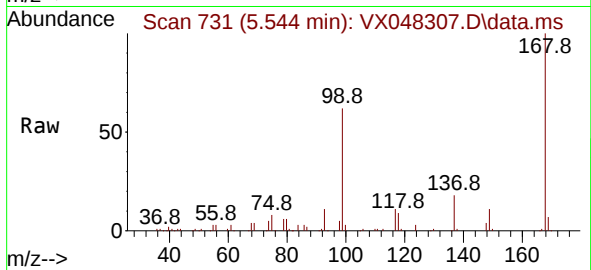
Tgt Ion: 75 Resp: 12192
Ion Ratio Lower Upper
75 100
110 6.0 17.7 53.1#
77 0.6 24.3 36.5#



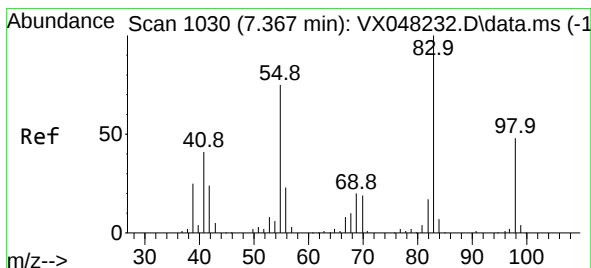
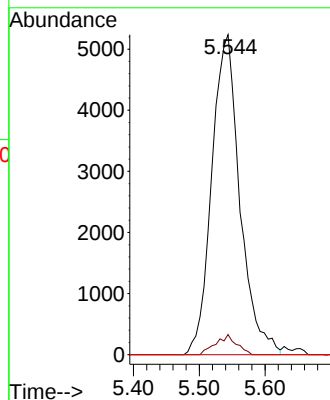
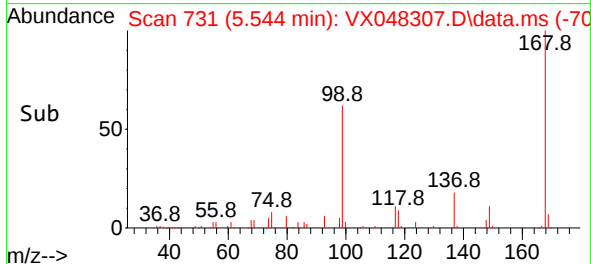


#38
Carbon Tetrachloride
Concen: 4.274 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.122 min
Lab File: VX048307.D
Acq: 22 Oct 2025 18:16

Instrument :
MSVOA_X
ClientSampleId :
MW2

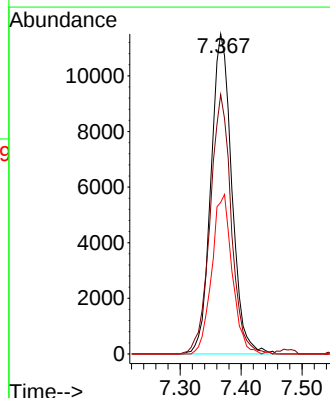
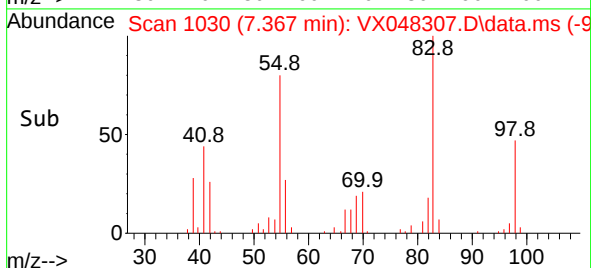
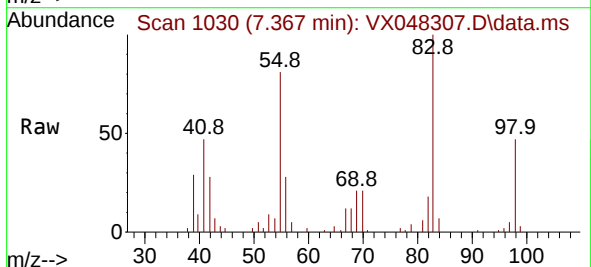


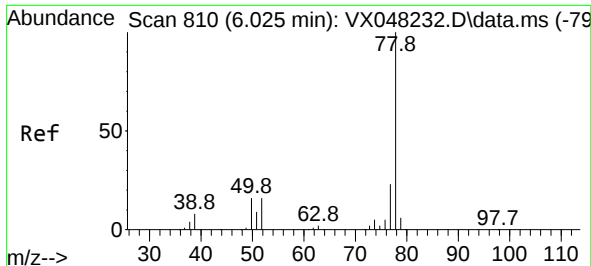
Tgt Ion:117 Resp: 15602
Ion Ratio Lower Upper
117 100
119 6.3 77.2 115.8#
121 0.0 24.8 37.2#



#39
Methylcyclohexane
Concen: 7.840 ug/l
RT: 7.367 min Scan# 1030
Delta R.T. -0.000 min
Lab File: VX048307.D
Acq: 22 Oct 2025 18:16

Tgt Ion: 83 Resp: 27395
Ion Ratio Lower Upper
83 100
55 81.0 66.2 99.2
98 47.4 38.9 58.3





#40

Benzene

Concen: 10.456 ug/l

RT: 6.025 min Scan# 810

Delta R.T. -0.000 min

Lab File: VX048307.D

Acq: 22 Oct 2025 18:16

Instrument :

MSVOA_X

ClientSampleId :

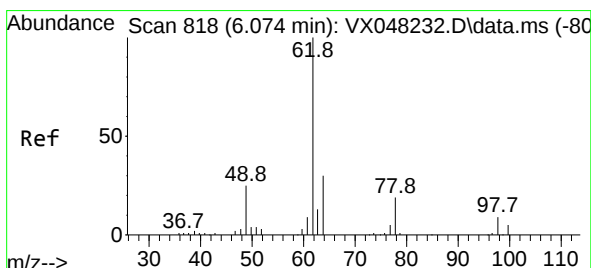
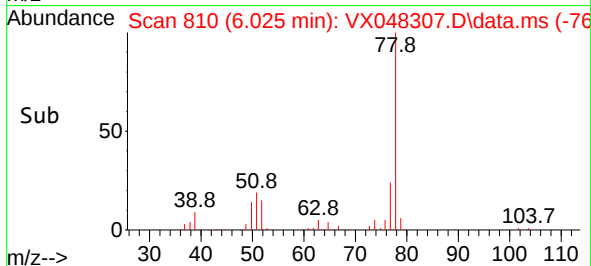
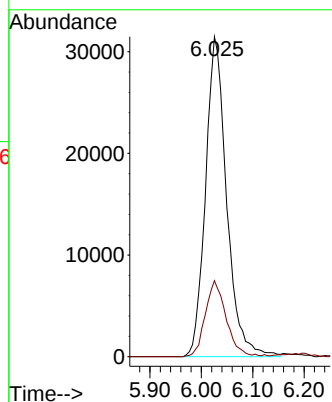
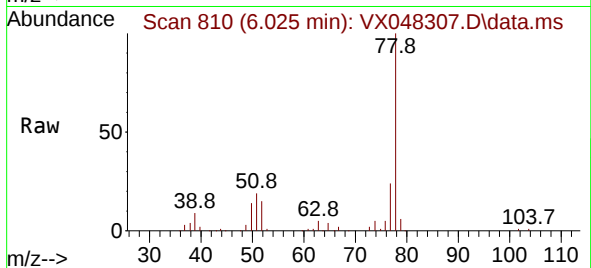
MW2

Tgt Ion: 78 Resp: 89823

Ion Ratio Lower Upper

78 100

77 23.8 19.3 28.9



#42

1,2-Dichloroethane

Concen: 0.217 ug/l

RT: 6.025 min Scan# 810

Delta R.T. -0.043 min

Lab File: VX048307.D

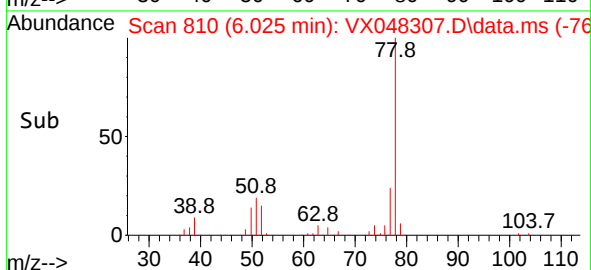
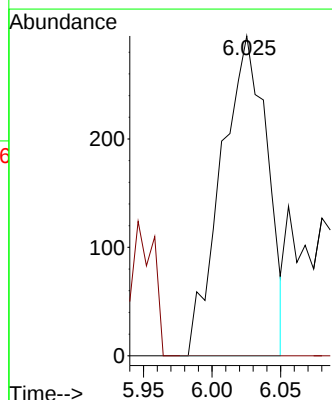
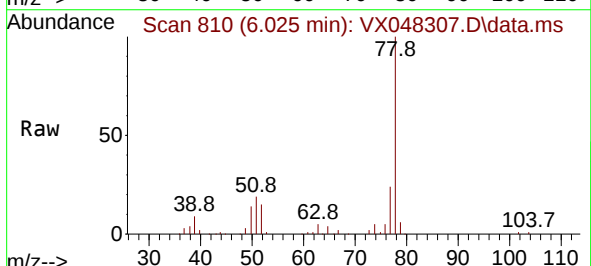
Acq: 22 Oct 2025 18:16

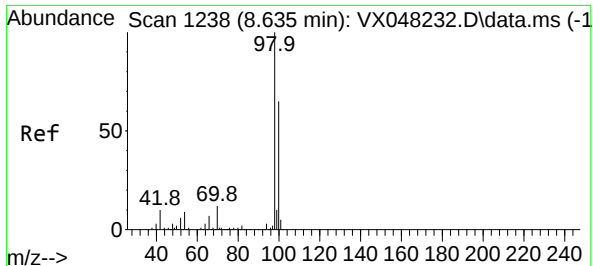
Tgt Ion: 62 Resp: 688

Ion Ratio Lower Upper

62 100

98 0.0 0.0 17.2

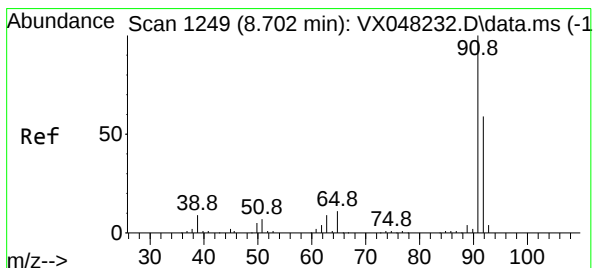
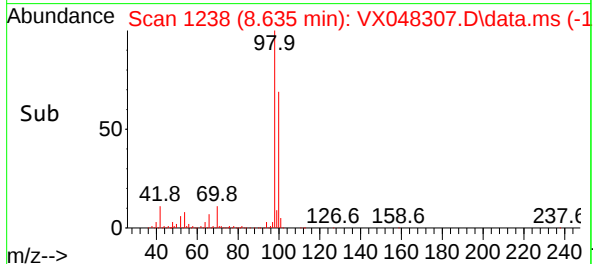
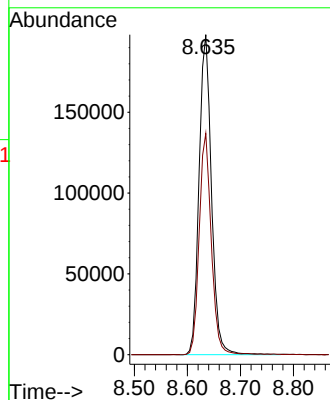
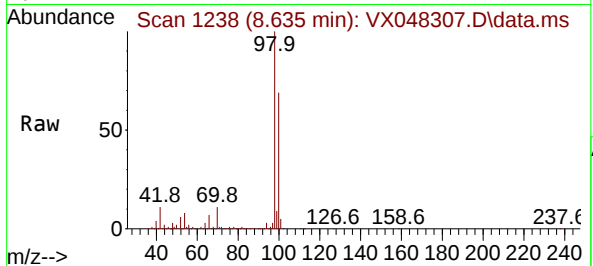




#50
Toluene-d8
Concen: 43.944 ug/l
RT: 8.635 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048307.D
Acq: 22 Oct 2025 18:16

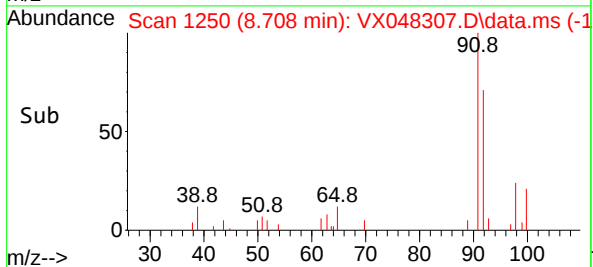
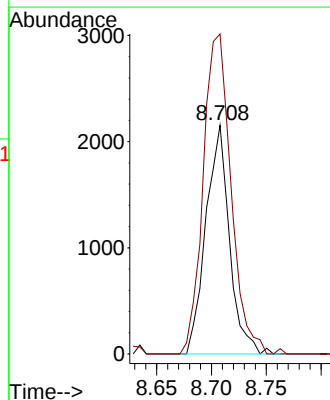
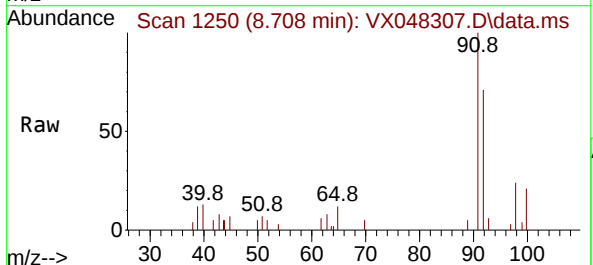
Instrument :
MSVOA_X
ClientSampleId :
MW2

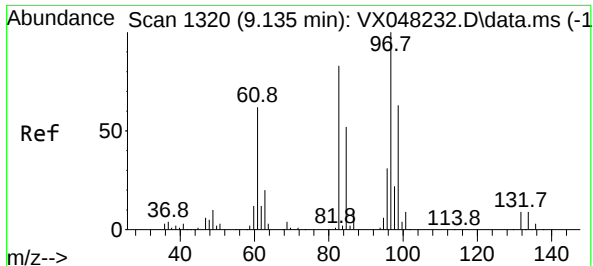
Tgt Ion: 98 Resp: 320646
Ion Ratio Lower Upper
98 100
100 67.1 53.0 79.4



#52
Toluene
Concen: 0.591 ug/l
RT: 8.708 min Scan# 1250
Delta R.T. 0.006 min
Lab File: VX048307.D
Acq: 22 Oct 2025 18:16

Tgt Ion: 92 Resp: 3225
Ion Ratio Lower Upper
92 100
91 164.6 136.1 204.1

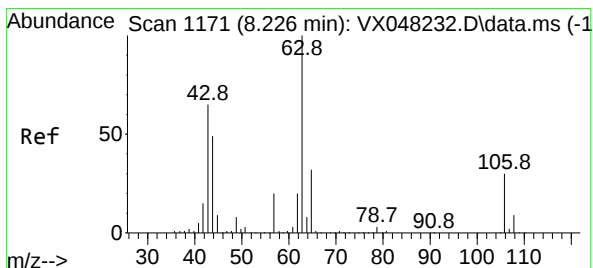
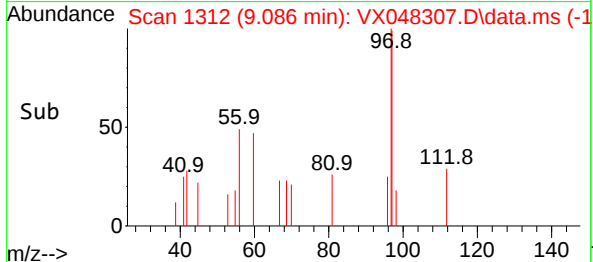
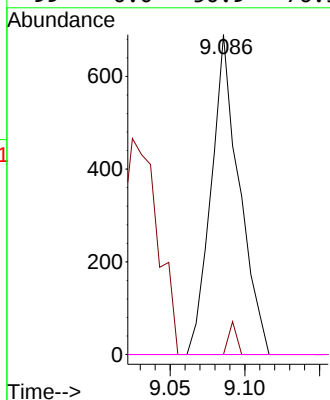
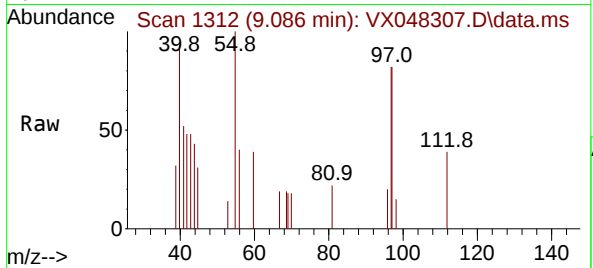




#55
 1,1,2-Trichloroethane
 Concen: 0.445 ug/l
 RT: 9.086 min Scan# 1164
 Delta R.T. -0.049 min
 Lab File: VX048307.D
 Acq: 22 Oct 2025 18:16

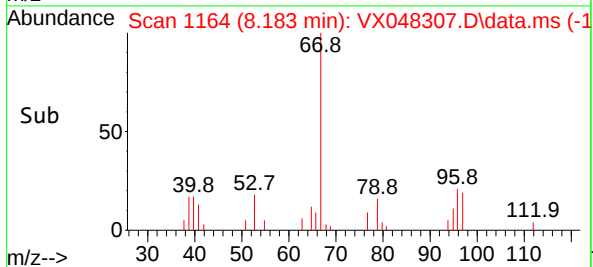
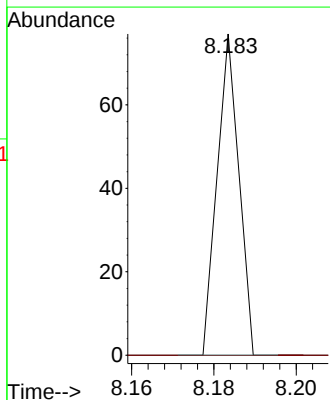
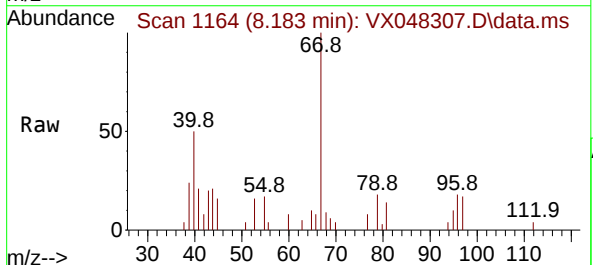
Instrument :
 MSVOA_X
 ClientSampleId :
 MW2

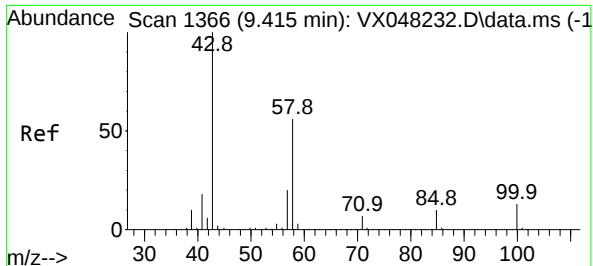
Tgt Ion:	97	Resp:	903
Ion	Ratio	Lower	Upper
97	100		
83	0.0	70.6	105.8#
85	0.0	45.0	67.6#
99	0.0	50.9	76.3#



#58
 2-Chloroethyl Vinyl ether
 Concen: 1.715 ug/l
 RT: 8.183 min Scan# 1164
 Delta R.T. -0.043 min
 Lab File: VX048307.D
 Acq: 22 Oct 2025 18:16

Tgt Ion:	63	Resp:	28
Ion	Ratio	Lower	Upper
63	100		
106	0.0	22.2	33.2#





#59

2-Hexanone

Concen: 0.277 ug/l

RT: 9.391 min Scan# 11

Delta R.T. -0.024 min

Lab File: VX048307.D

Acq: 22 Oct 2025 18:16

Instrument :

MSVOA_X

ClientSampleId :

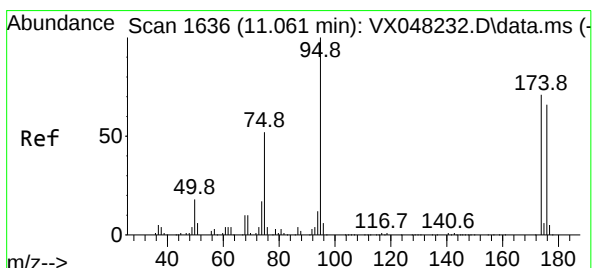
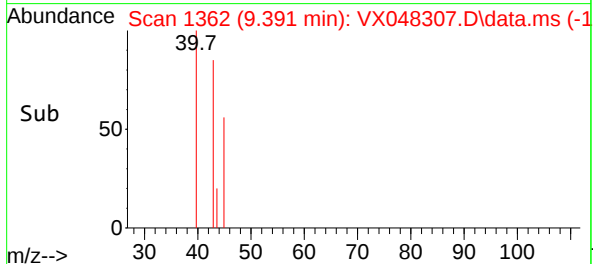
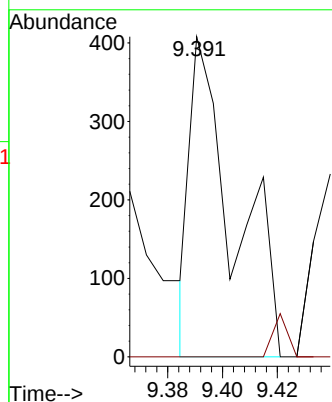
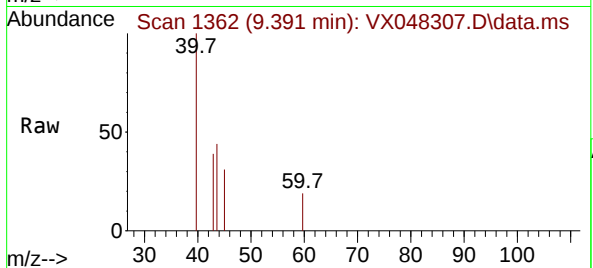
MW2

Tgt Ion: 43 Resp: 449

Ion Ratio Lower Upper

43 100

58 0.0 26.3 78.8#



#62

4-Bromofluorobenzene

Concen: 47.141 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. -0.000 min

Lab File: VX048307.D

Acq: 22 Oct 2025 18:16

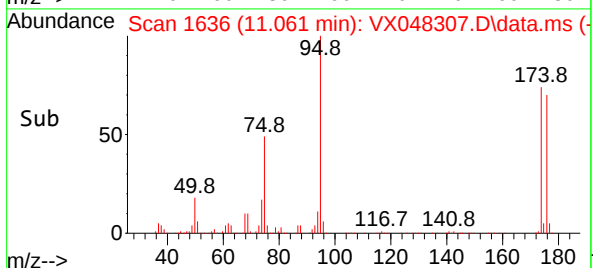
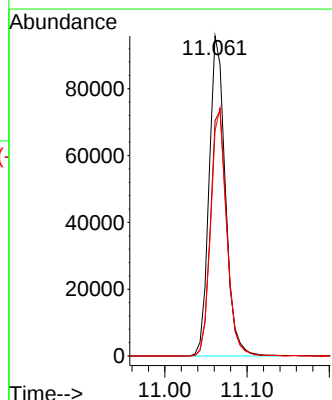
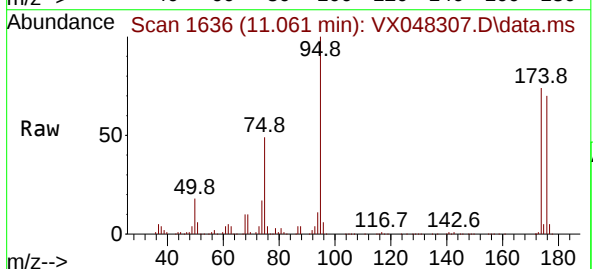
Tgt Ion: 95 Resp: 130855

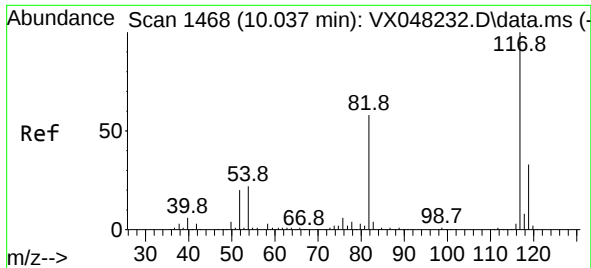
Ion Ratio Lower Upper

95 100

174 77.9 0.0 147.8

176 75.8 0.0 142.8

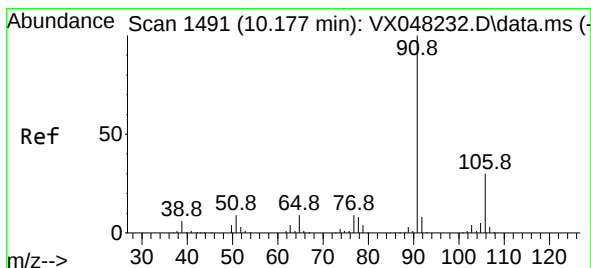
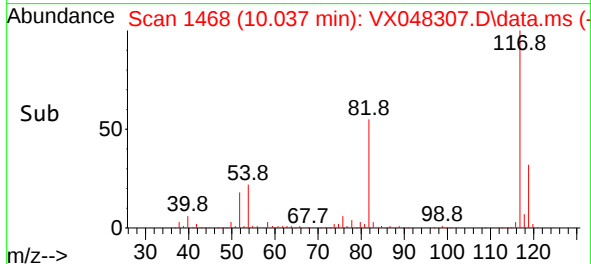
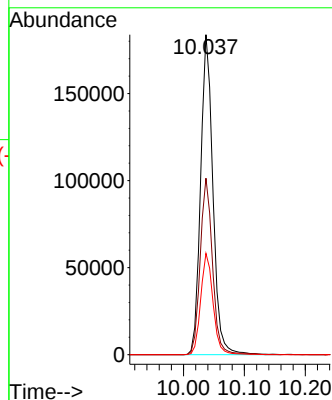
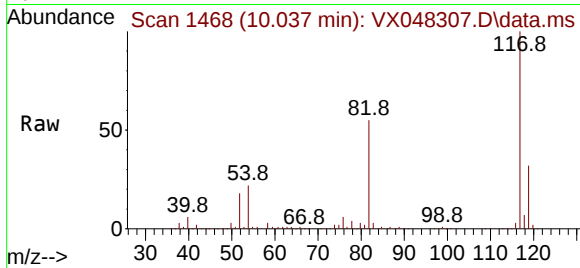




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048307.D
Acq: 22 Oct 2025 18:16

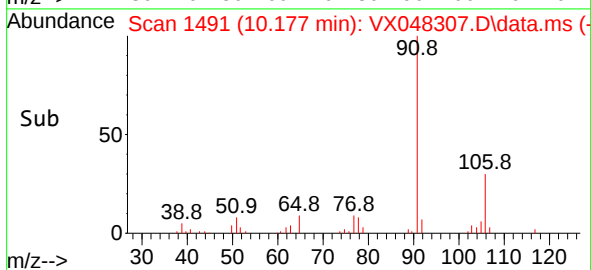
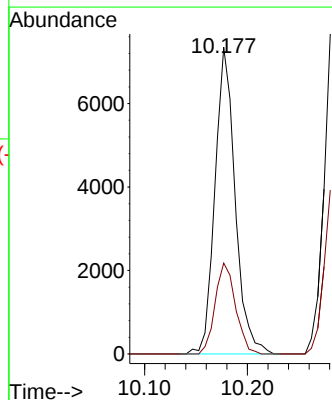
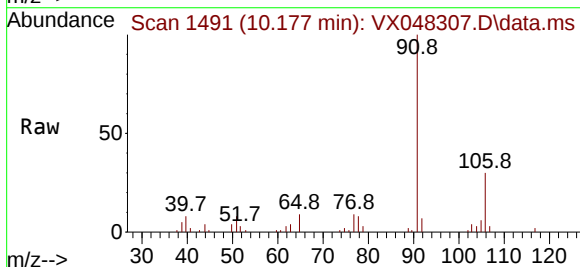
Instrument :
MSVOA_X
ClientSampleId :
MW2

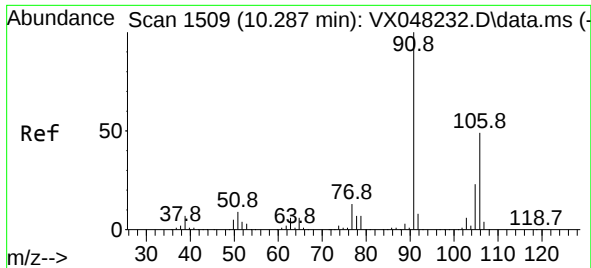
Tgt Ion:117 Resp: 258598
Ion Ratio Lower Upper
117 100
82 55.1 46.5 69.7
119 31.7 25.9 38.9



#67
Ethyl Benzene
Concen: 1.011 ug/l
RT: 10.177 min Scan# 1491
Delta R.T. -0.000 min
Lab File: VX048307.D
Acq: 22 Oct 2025 18:16

Tgt Ion: 91 Resp: 10017
Ion Ratio Lower Upper
91 100
106 29.7 23.8 35.6

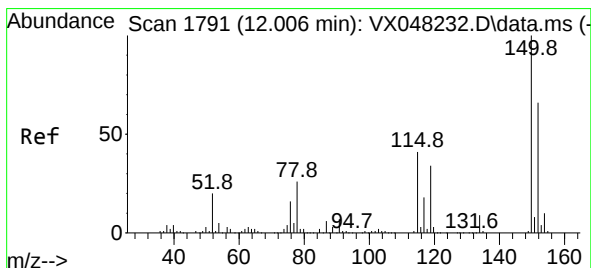
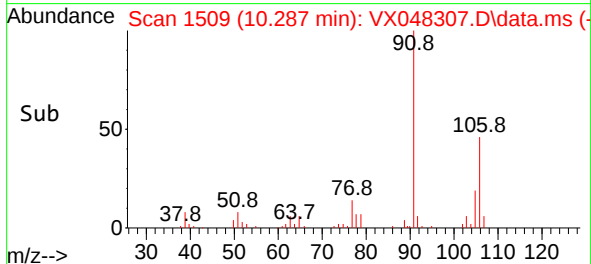
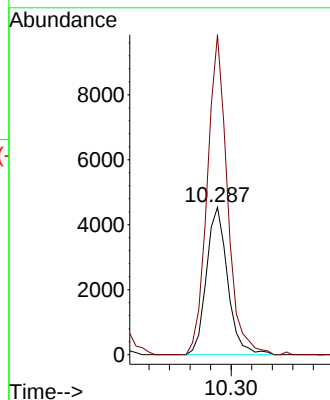
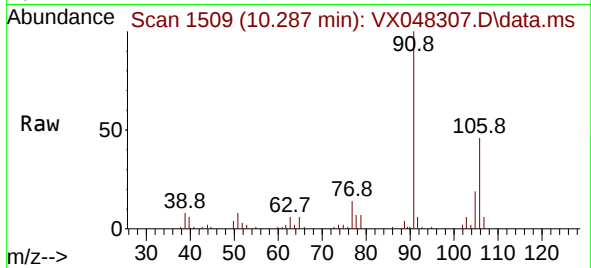




#68
m/p-Xylenes
Concen: 1.765 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX048307.D
Acq: 22 Oct 2025 18:16

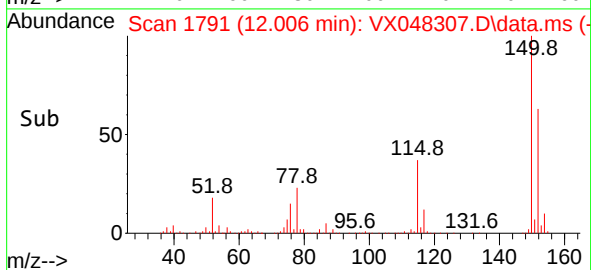
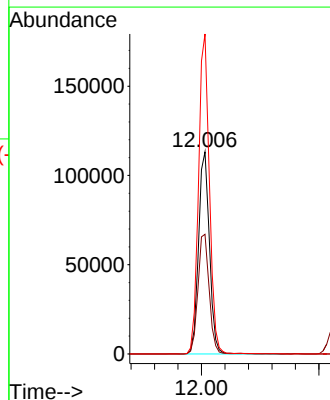
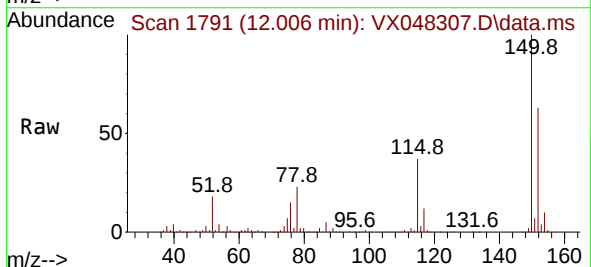
Instrument :
MSVOA_X
ClientSampleId :
MW2

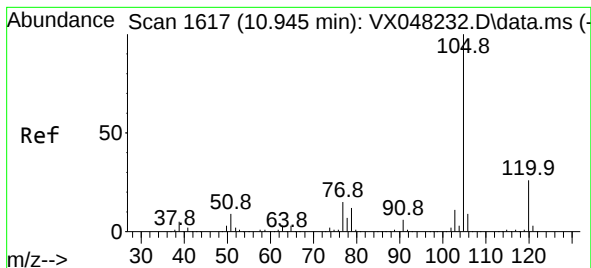
Tgt Ion:106 Resp: 6496
Ion Ratio Lower Upper
106 100
91 206.2 167.9 251.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX048307.D
Acq: 22 Oct 2025 18:16

Tgt Ion:152 Resp: 146075
Ion Ratio Lower Upper
152 100
115 60.9 43.1 129.4
150 157.4 0.0 353.0





#73

Isopropylbenzene

Concen: 1.360 ug/l

RT: 10.945 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX048307.D

Acq: 22 Oct 2025 18:16

Instrument :

MSVOA_X

ClientSampleId :

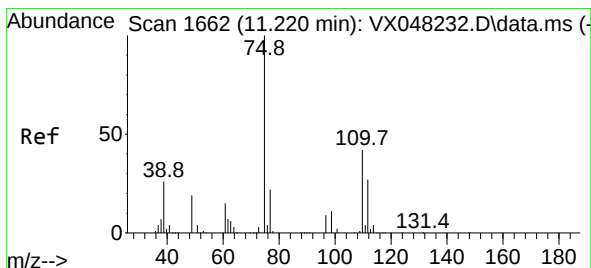
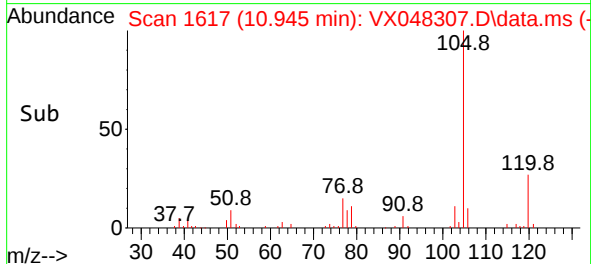
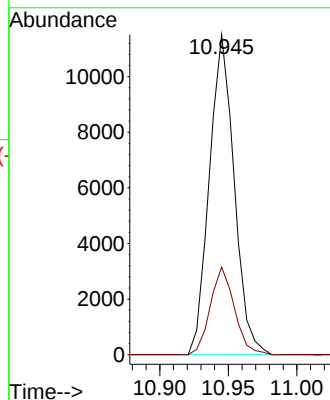
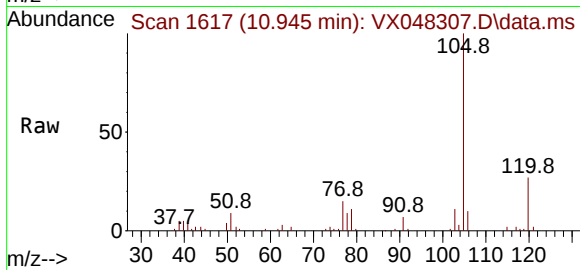
MW2

Tgt Ion:105 Resp: 14505

Ion Ratio Lower Upper

105 100

120 26.5 13.0 38.9



#76

1,2,3-Trichloropropane

Concen: 27.342 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. -0.159 min

Lab File: VX048307.D

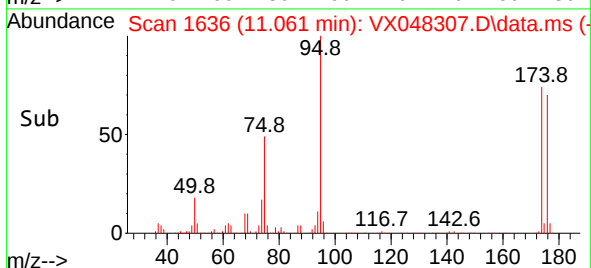
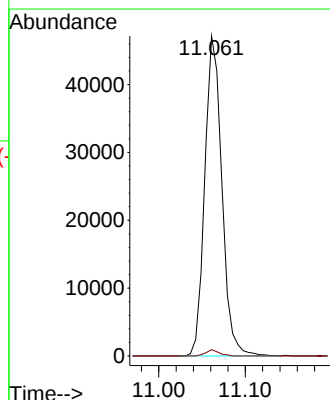
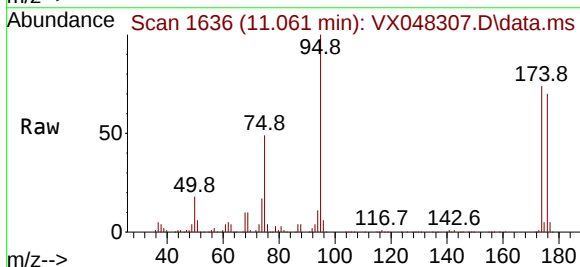
Acq: 22 Oct 2025 18:16

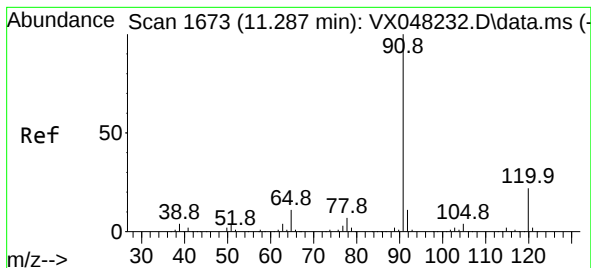
Tgt Ion: 75 Resp: 64768

Ion Ratio Lower Upper

75 100

77 1.5 22.4 67.2#





#78

n-propylbenzene

Concen: 2.457 ug/l

RT: 11.287 min Scan# 1673

Delta R.T. -0.000 min

Lab File: VX048307.D

Acq: 22 Oct 2025 18:16

Instrument :

MSVOA_X

ClientSampleId :

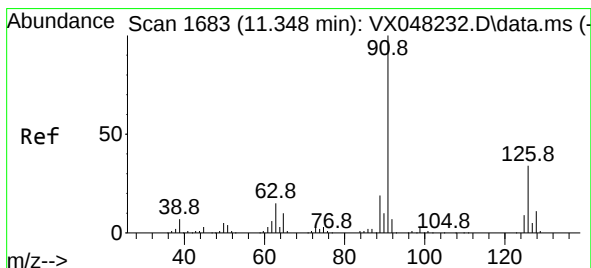
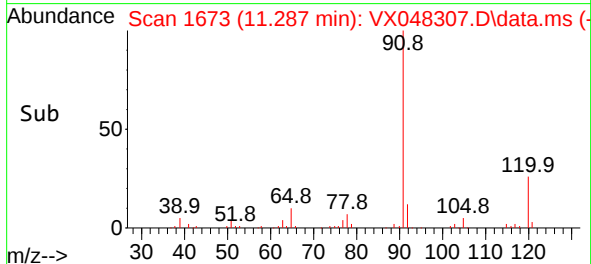
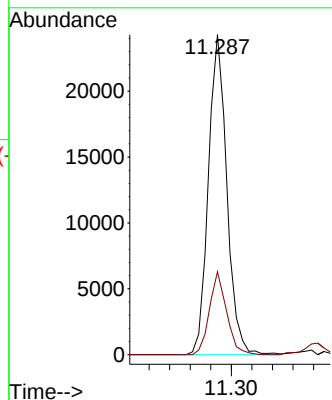
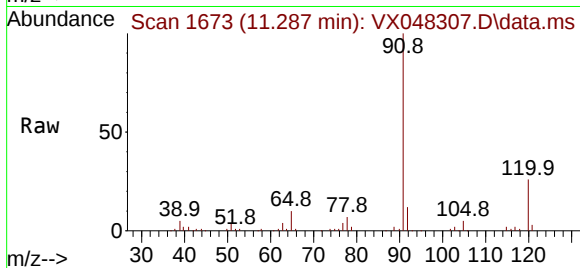
MW2

Tgt Ion: 91 Resp: 30357

Ion Ratio Lower Upper

91 100

120 24.1 11.1 33.1



#79

2-Chlorotoluene

Concen: 4.053 ug/l

RT: 11.287 min Scan# 1673

Delta R.T. -0.061 min

Lab File: VX048307.D

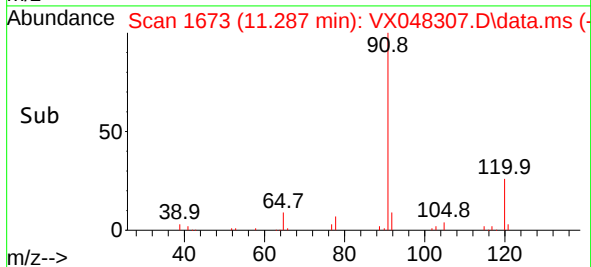
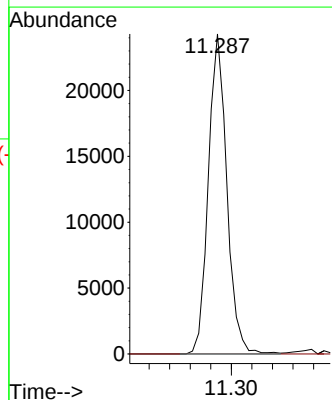
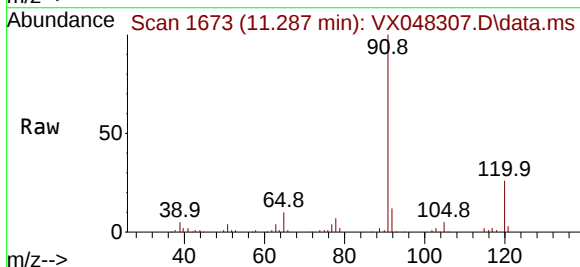
Acq: 22 Oct 2025 18:16

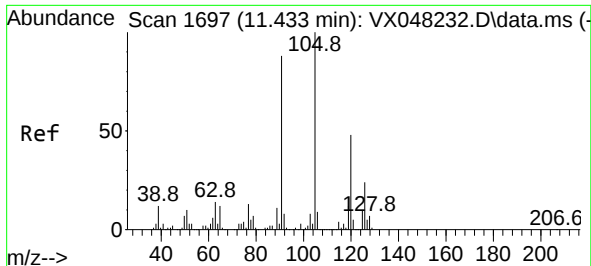
Tgt Ion: 91 Resp: 30357

Ion Ratio Lower Upper

91 100

126 0.0 16.4 49.4#

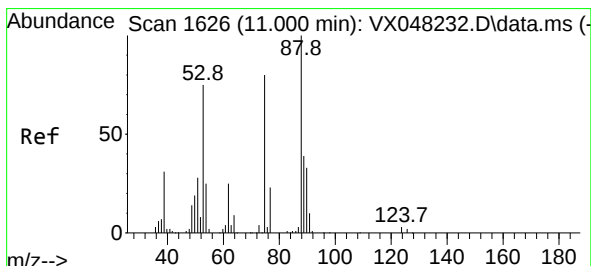
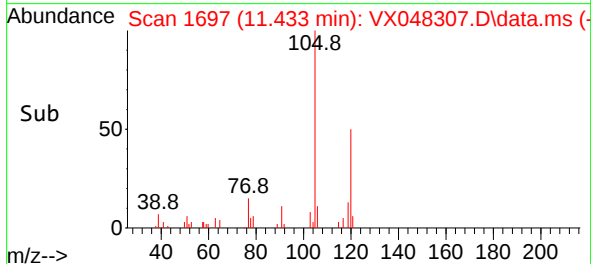
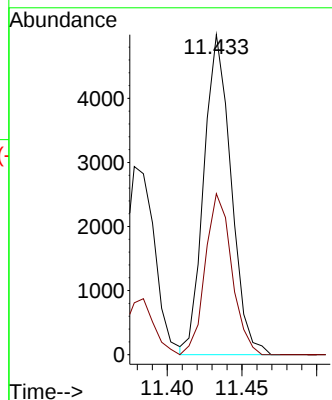
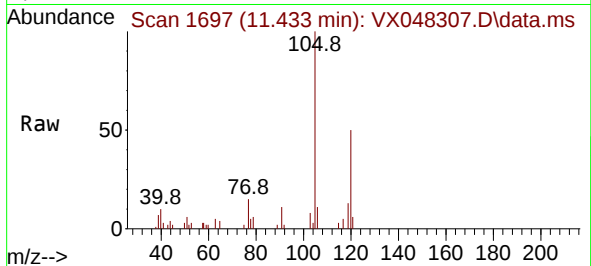




#80
1,3,5-Trimethylbenzene
Concen: 0.715 ug/l
RT: 11.433 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048307.D
Acq: 22 Oct 2025 18:16

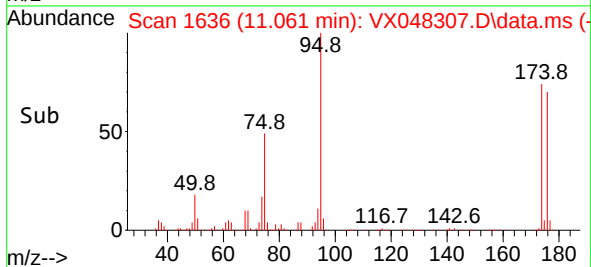
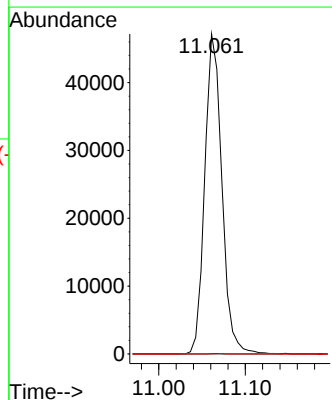
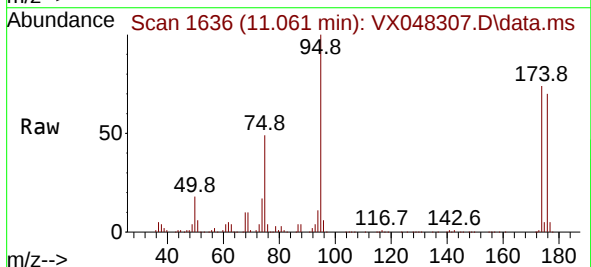
Instrument :
MSVOA_X
ClientSampleId :
MW2

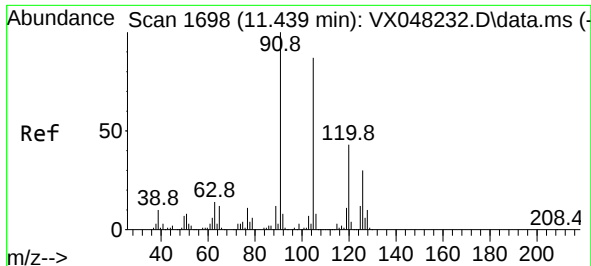
Tgt Ion:105 Resp: 6313
Ion Ratio Lower Upper
105 100
120 49.0 24.0 72.0



#81
trans-1,4-Dichloro-2-butene
Concen: 66.520 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.061 min
Lab File: VX048307.D
Acq: 22 Oct 2025 18:16

Tgt Ion: 75 Resp: 64768
Ion Ratio Lower Upper
75 100
53 0.1 79.5 119.3#
89 0.0 36.8 55.2#

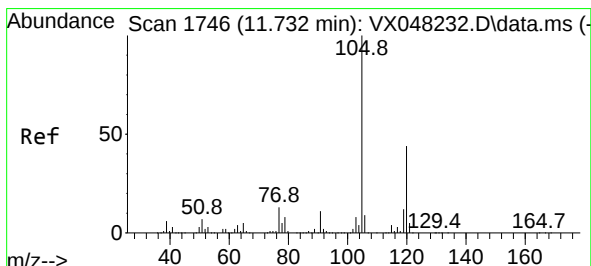
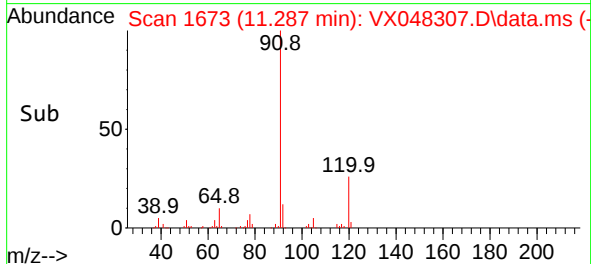
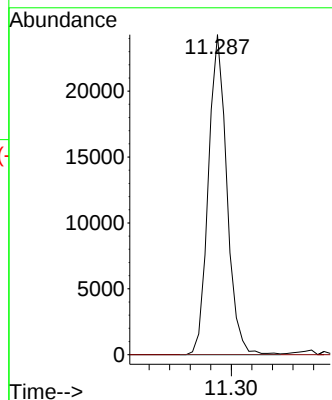
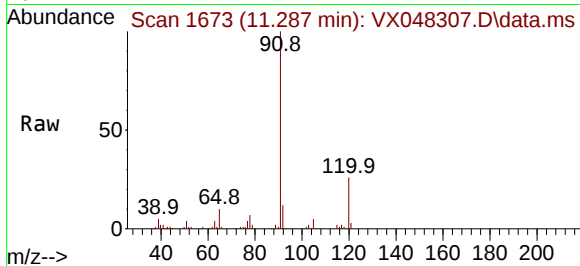




#82
4-Chlorotoluene
Concen: 3.414 ug/l
RT: 11.287 min Scan# 11
Delta R.T. -0.146 min
Lab File: VX048307.D
Acq: 22 Oct 2025 18:16

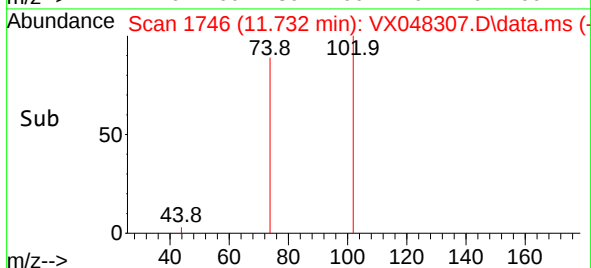
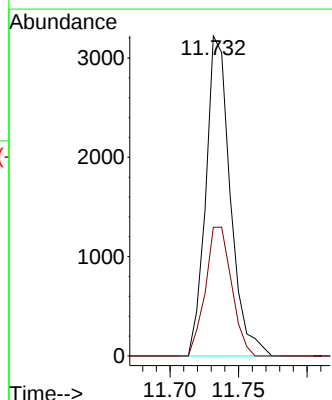
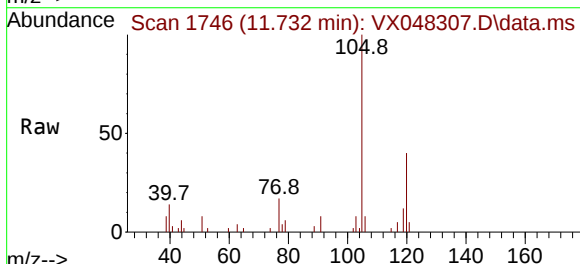
Instrument :
MSVOA_X
ClientSampleId :
MW2

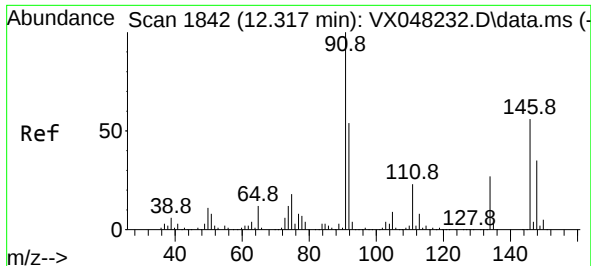
Tgt Ion: 91 Resp: 30357
Ion Ratio Lower Upper
91 100
126 0.0 14.1 42.4#



#84
1,2,4-Trimethylbenzene
Concen: 0.454 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX048307.D
Acq: 22 Oct 2025 18:16

Tgt Ion: 105 Resp: 4001
Ion Ratio Lower Upper
105 100
120 43.1 22.1 66.5





#89

n-Butylbenzene

Concen: 0.260 ug/l

RT: 12.311 min Scan# 1841

Delta R.T. -0.000 min

Lab File: VX048307.D

Acq: 22 Oct 2025 18:16

Instrument :

MSVOA_X

ClientSampleId :

MW2

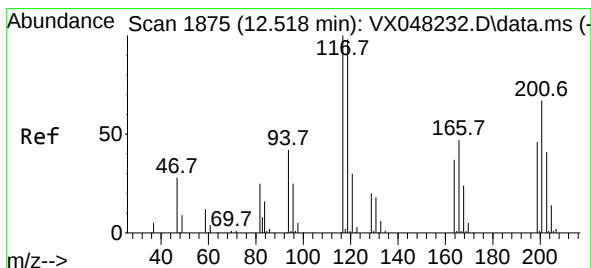
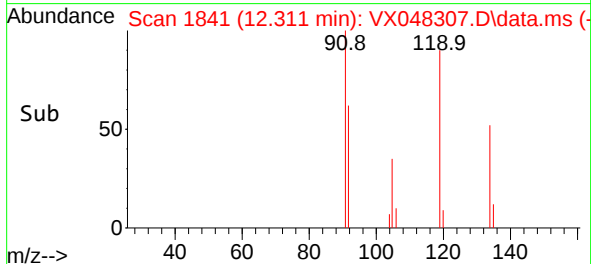
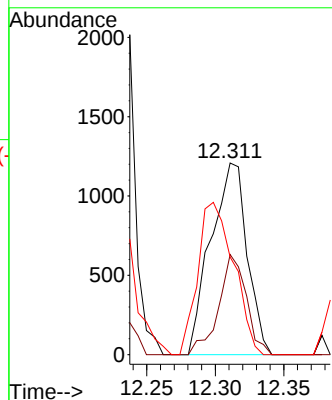
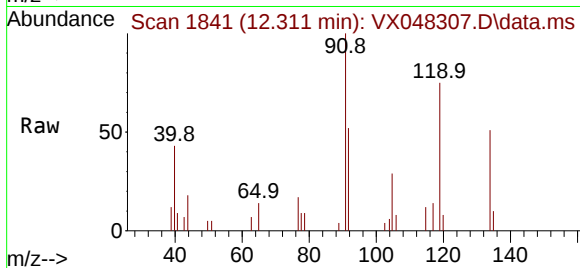
Tgt Ion: 91 Resp: 2229

Ion Ratio Lower Upper

91 100

92 39.7 26.9 80.6

134 78.5 12.7 38.1#



#90

Hexachloroethane

Concen: 0.623 ug/l

RT: 12.591 min Scan# 1887

Delta R.T. 0.073 min

Lab File: VX048307.D

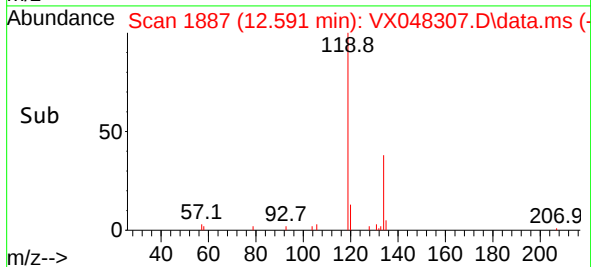
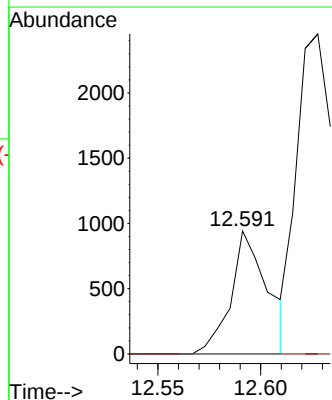
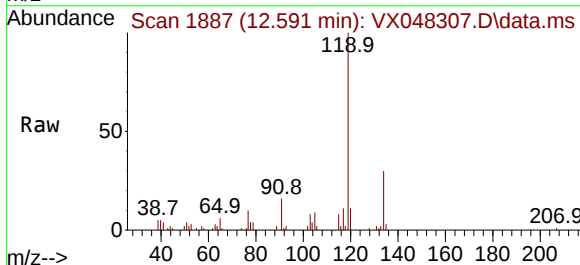
Acq: 22 Oct 2025 18:16

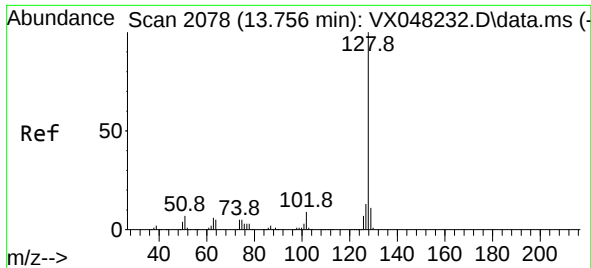
Tgt Ion: 117 Resp: 1160

Ion Ratio Lower Upper

117 100

201 0.0 34.1 102.2#





#95

Naphthalene

Concen: 0.639 ug/l

RT: 13.756 min Scan# 20

Delta R.T. -0.000 min

Lab File: VX048307.D

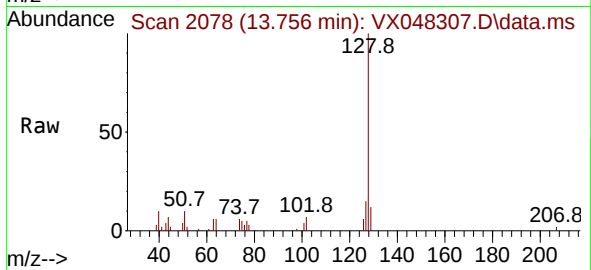
Acq: 22 Oct 2025 18:16

Instrument :

MSVOA_X

ClientSampleId :

MW2



Tgt Ion:128 Resp: 5424

Ion Ratio Lower Upper

128 100

127 13.0 10.2 15.4

129 13.1 8.6 12.8#

