

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100325\
 Data File : VX048004.D
 Acq On : 03 Oct 2025 18:41
 Operator : JC/MD
 Sample : Q3248-08
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB-184-GW-685-687

Quant Time: Oct 03 23:54:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration

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

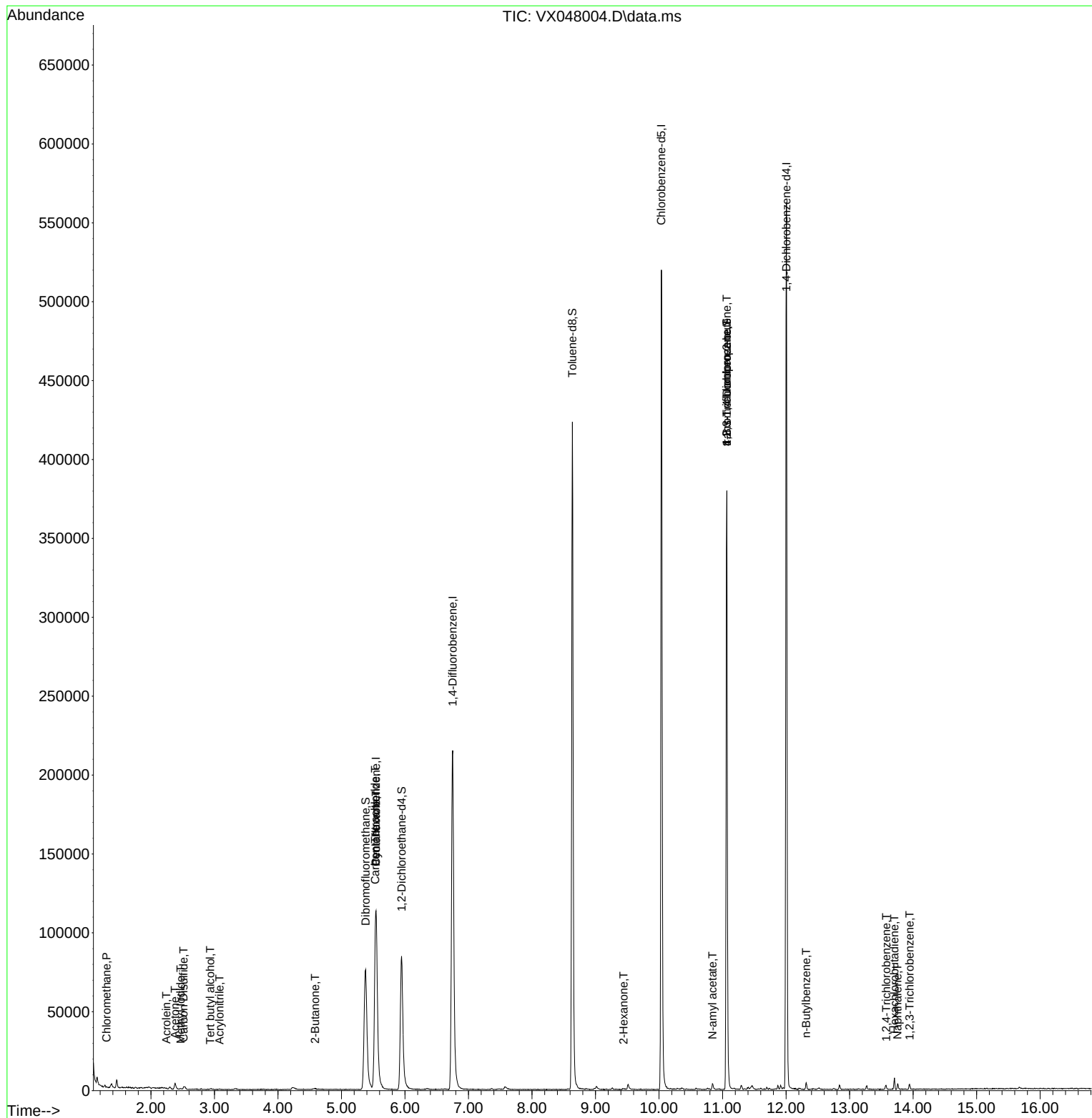
Internal Standards						
1) Pentafluorobenzene	5.544	168	115930	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	233399	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	238258	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	114439	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	90546	49.068	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	98.140%		
35) Dibromofluoromethane	5.379	113	74933	47.871	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	95.740%		
50) Toluene-d8	8.634	98	256028	47.270	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	94.540%		
62) 4-Bromofluorobenzene	11.067	95	107438	52.267	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	104.540%		
Target Compounds					Qvalue	
3) Chloromethane	1.300	50	532	0.337	ug/l #	72
10) Methyl Iodide	2.465	142	601	0.287	ug/l #	88
11) Tert butyl alcohol	2.934	59	69	0.336	ug/l #	72
13) Acrolein	2.239	56	38	0.201	ug/l #	1
15) Acrylonitrile	3.081	53	222	0.292	ug/l #	53
16) Acetone	2.380	43	4414	5.501	ug/l	93
17) Carbon Disulfide	2.514	76	1044	0.277	ug/l #	80
25) 2-Butanone	4.586	43	1096	1.095	ug/l #	50
31) Cyclohexane	5.544	56	2530	1.038	ug/l #	1
38) Carbon Tetrachloride	5.531	117	12241	4.926	ug/l #	18
59) 2-Hexanone	9.439	43	688	0.430	ug/l	74
74) N-amyl acetate	10.841	43	923	0.233	ug/l #	37
76) 1,2,3-Trichloropropane	11.067	75	55666	24.025	ug/l #	40
81) trans-1,4-Dichloro-2-b...	11.067	75	55666	61.266	ug/l #	8
89) n-Butylbenzene	12.317	91	1859	0.273	ug/l	97
93) 1,2,4-Trichlorobenzene	13.579	180	854	0.347	ug/l	92
94) Hexachlorobutadiene	13.707	225	924	1.104	ug/l	91
95) Naphthalene	13.756	128	2473	0.330	ug/l #	93
96) 1,2,3-Trichlorobenzene	13.945	180	1039	0.453	ug/l	92

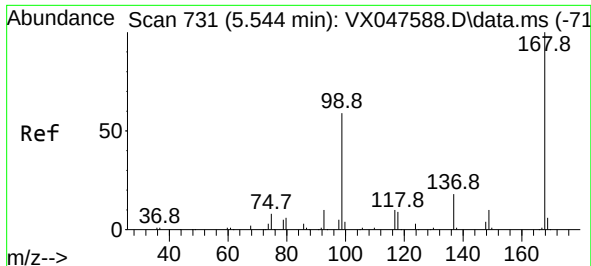
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BP-VPB-184-GW-685-687

Quant Time: Oct 03 23:54:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

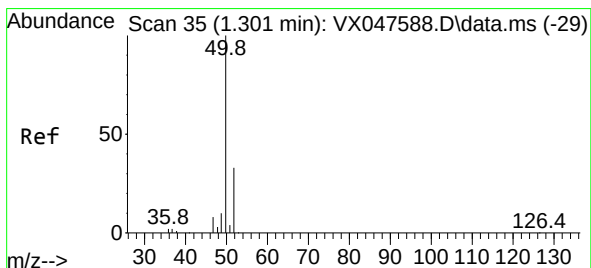
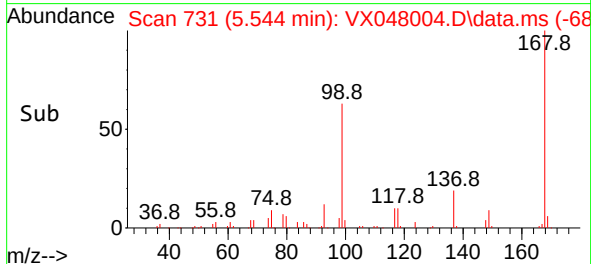
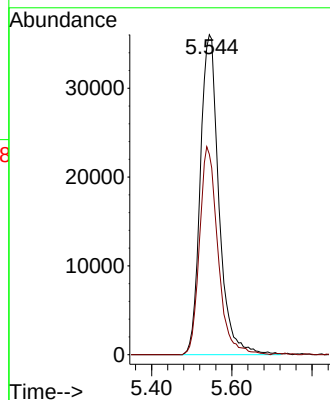
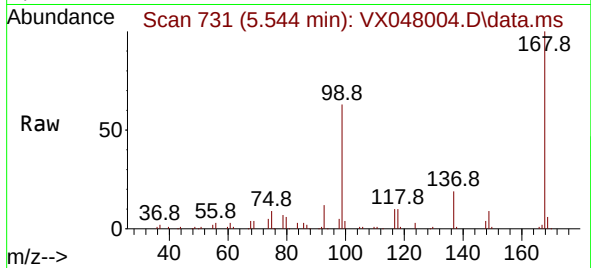




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX048004.D
Acq: 03 Oct 2025 18:41

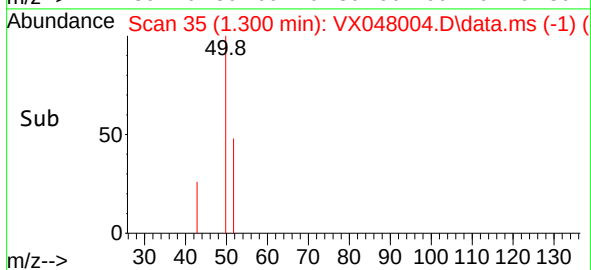
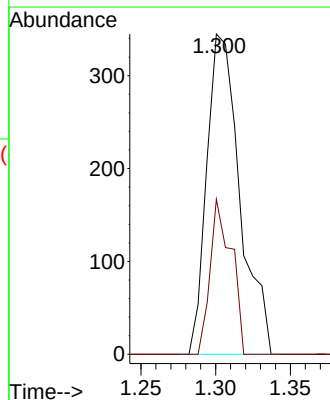
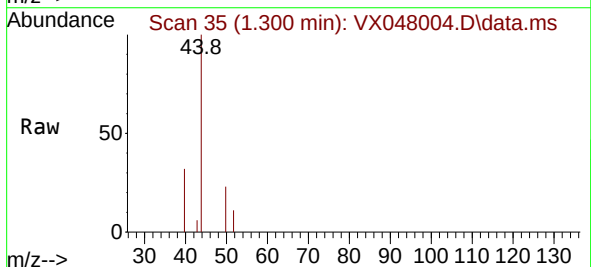
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-685-687

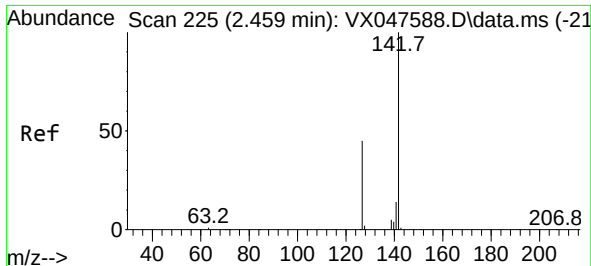
Tgt Ion:168 Resp: 115930
Ion Ratio Lower Upper
168 100
99 62.7 48.8 73.2



#3
Chloromethane
Concen: 0.337 ug/l
RT: 1.300 min Scan# 35
Delta R.T. -0.000 min
Lab File: VX048004.D
Acq: 03 Oct 2025 18:41

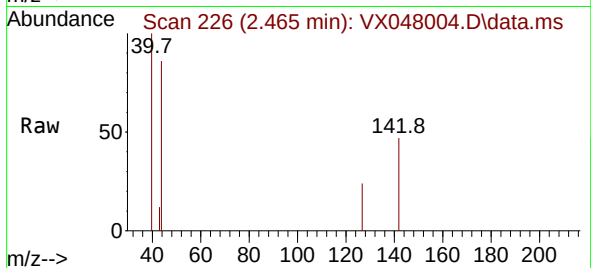
Tgt Ion: 50 Resp: 532
Ion Ratio Lower Upper
50 100
52 48.4 26.1 39.1#



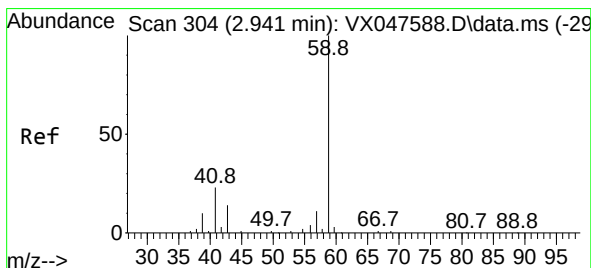
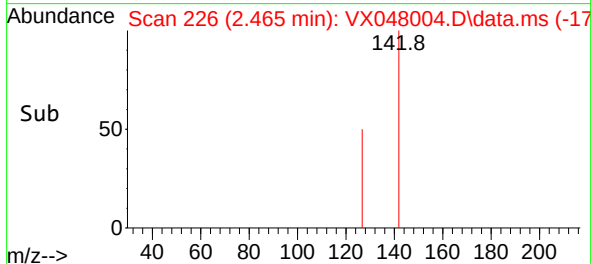
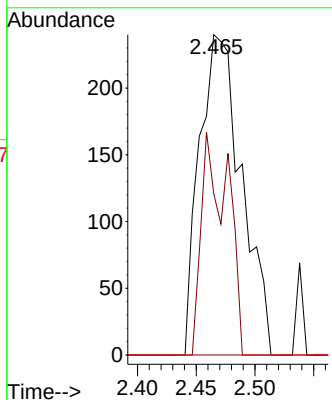


#10
Methyl Iodide
Concen: 0.287 ug/l
RT: 2.465 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX048004.D
Acq: 03 Oct 2025 18:41

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-685-687

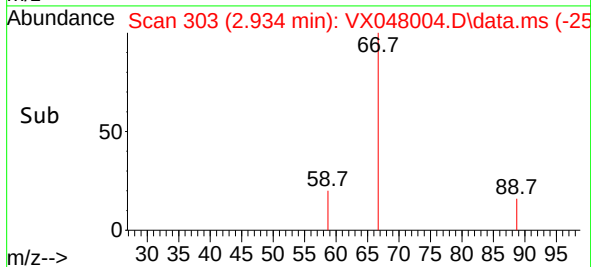
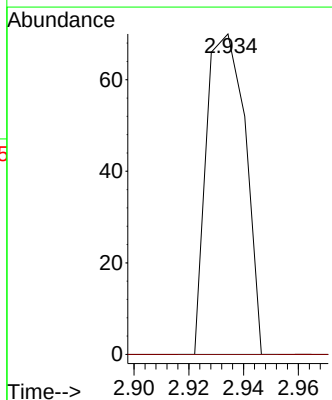
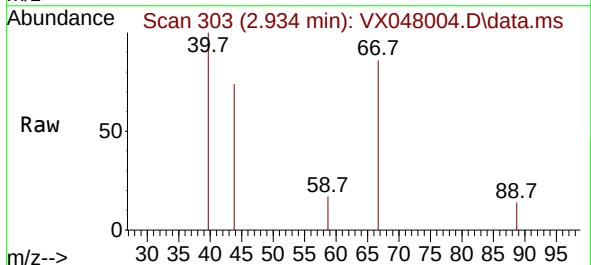


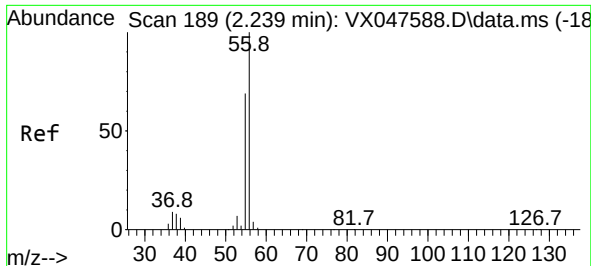
Tgt Ion:142 Resp: 601
Ion Ratio Lower Upper
142 100
127 43.1 37.2 55.8
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 0.336 ug/l
RT: 2.934 min Scan# 303
Delta R.T. -0.006 min
Lab File: VX048004.D
Acq: 03 Oct 2025 18:41

Tgt Ion: 59 Resp: 69
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

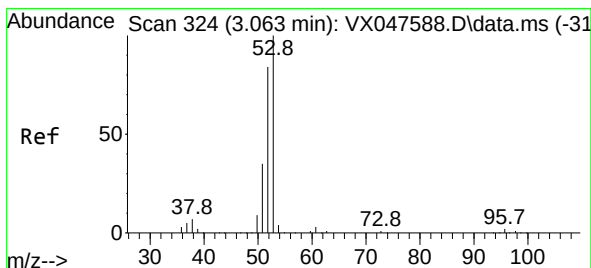
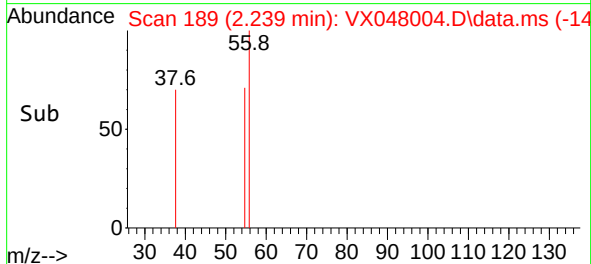
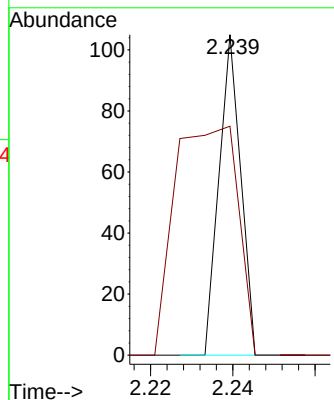
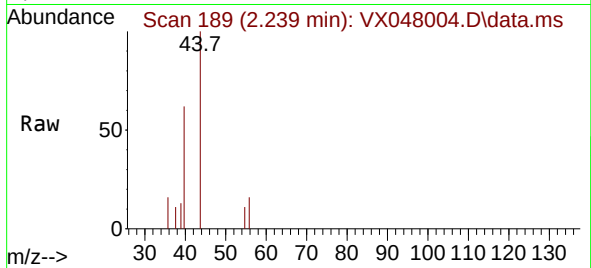




#13
Acrolein
Concen: 0.201 ug/l
RT: 2.239 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048004.D
Acq: 03 Oct 2025 18:41

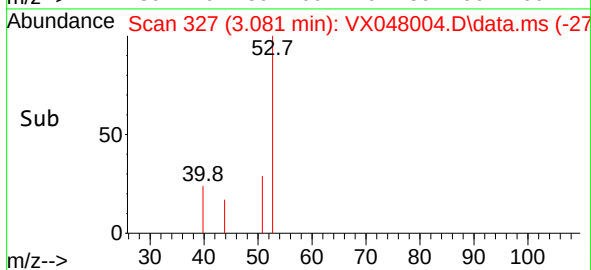
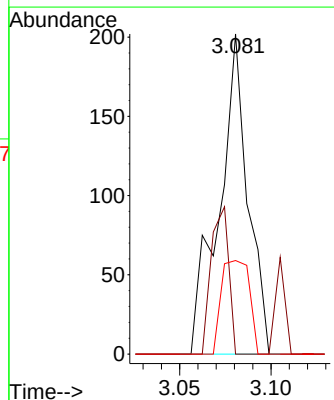
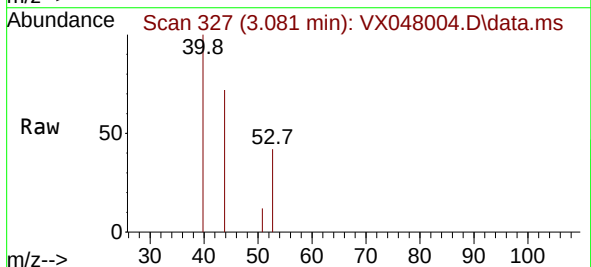
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-685-687

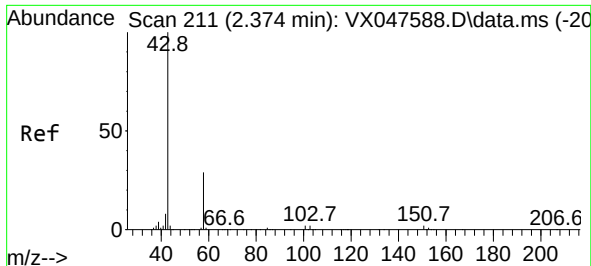
Tgt Ion: 56 Resp: 38
Ion Ratio Lower Upper
56 100
55 210.5 57.2 85.8#



#15
Acrylonitrile
Concen: 0.292 ug/l
RT: 3.081 min Scan# 327
Delta R.T. 0.018 min
Lab File: VX048004.D
Acq: 03 Oct 2025 18:41

Tgt Ion: 53 Resp: 222
Ion Ratio Lower Upper
53 100
52 27.9 66.4 99.6#
51 28.4 29.5 44.3#

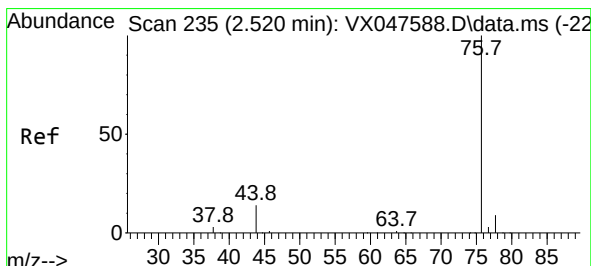
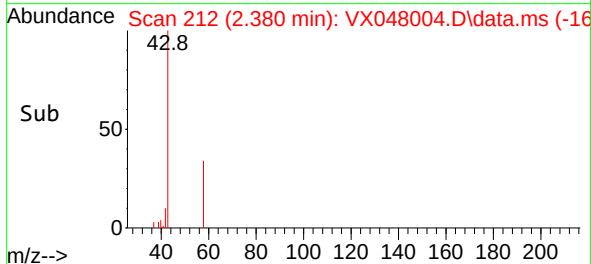
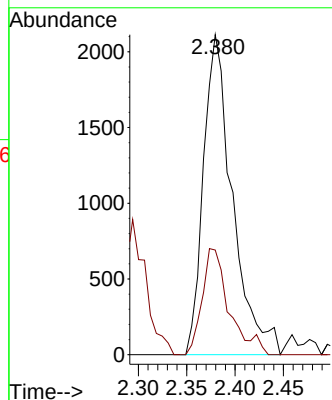
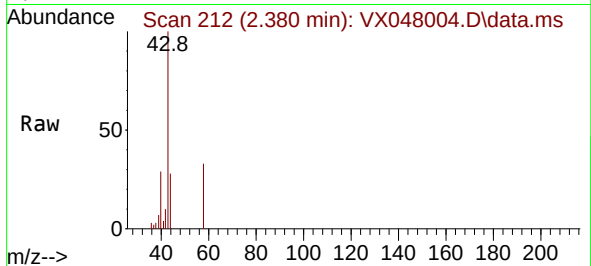




#16
Acetone
Concen: 5.501 ug/l
RT: 2.380 min Scan# 211
Delta R.T. 0.006 min
Lab File: VX048004.D
Acq: 03 Oct 2025 18:41

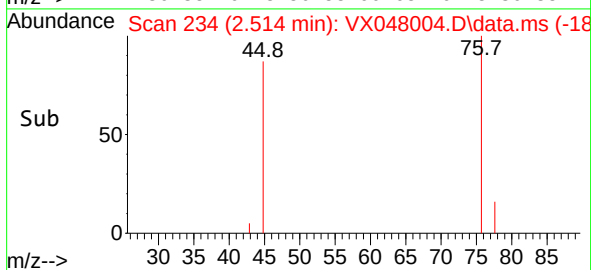
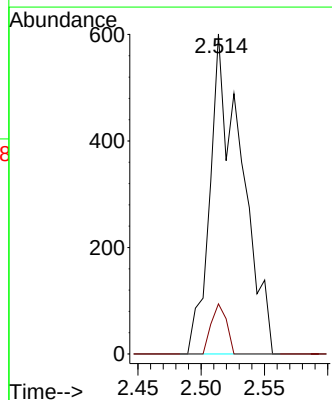
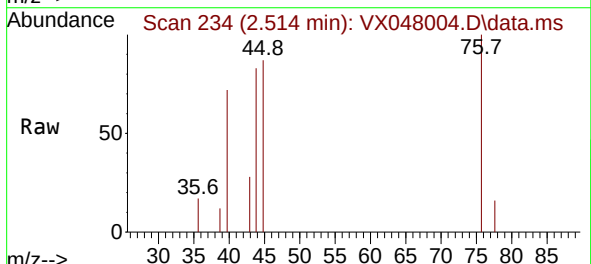
Instrument :
MSVOA_X
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BP-VPB-184-GW-685-687

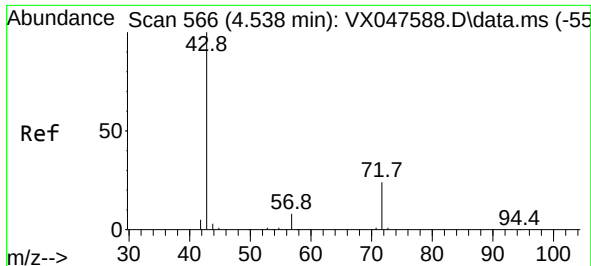
Tgt Ion: 43 Resp: 4414
Ion Ratio Lower Upper
43 100
58 32.7 23.4 35.0



#17
Carbon Disulfide
Concen: 0.277 ug/l
RT: 2.514 min Scan# 234
Delta R.T. -0.006 min
Lab File: VX048004.D
Acq: 03 Oct 2025 18:41

Tgt Ion: 76 Resp: 1044
Ion Ratio Lower Upper
76 100
78 15.6 6.8 10.2#

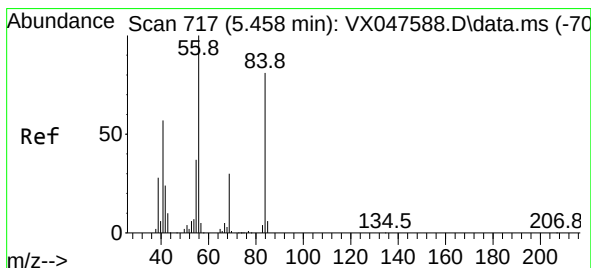
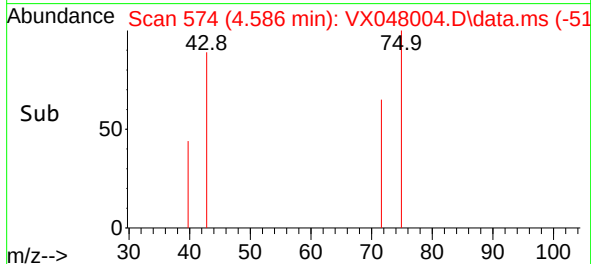
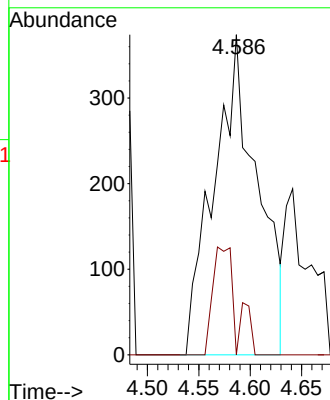
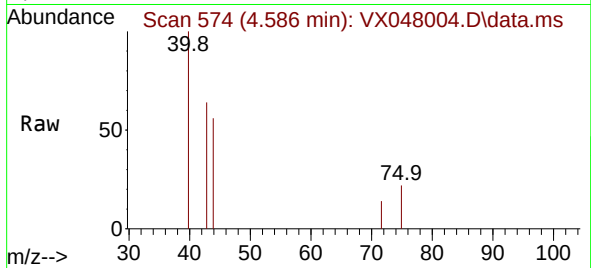




#25
2-Butanone
Concen: 1.095 ug/l
RT: 4.586 min Scan# 51
Delta R.T. 0.049 min
Lab File: VX048004.D
Acq: 03 Oct 2025 18:41

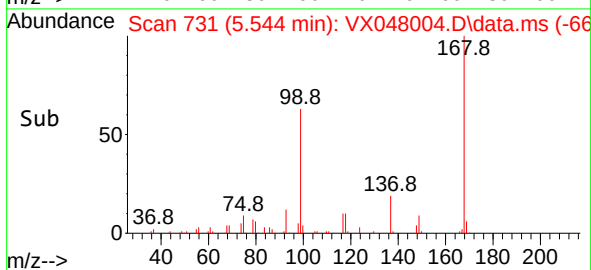
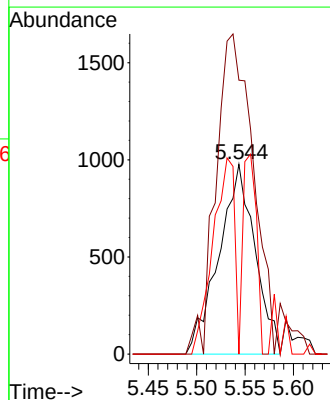
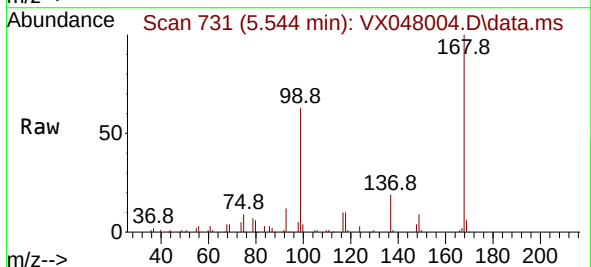
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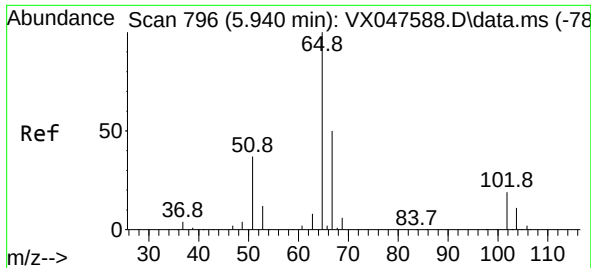
Tgt Ion: 43 Resp: 1096
Ion Ratio Lower Upper
43 100
72 0.0 20.1 30.1#



#31
Cyclohexane
Concen: 1.038 ug/l
RT: 5.544 min Scan# 731
Delta R.T. 0.085 min
Lab File: VX048004.D
Acq: 03 Oct 2025 18:41

Tgt Ion: 56 Resp: 2530
Ion Ratio Lower Upper
56 100
69 144.3 23.8 35.8#
84 0.0 64.6 97.0#

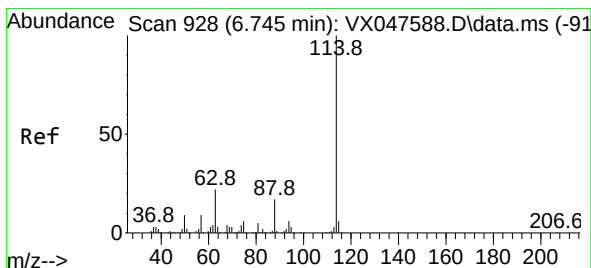
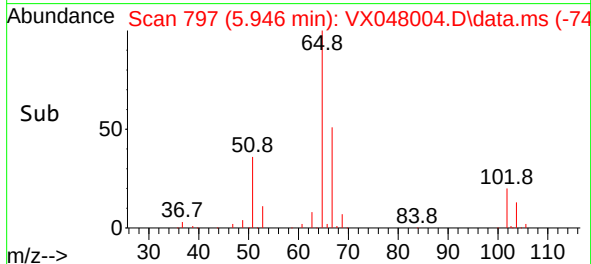
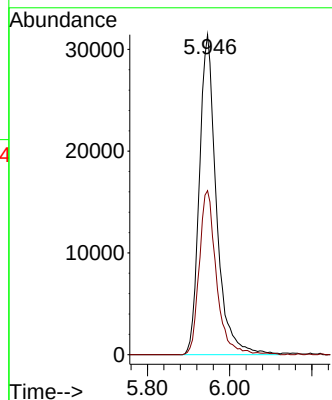
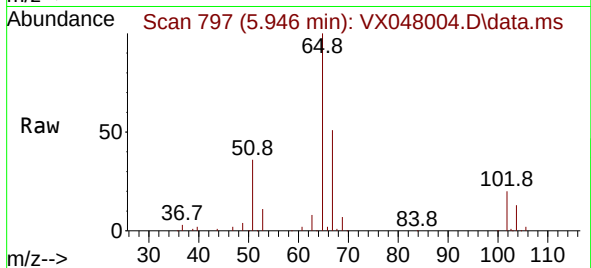




#33
 1,2-Dichloroethane-d4
 Concen: 49.068 ug/l
 RT: 5.946 min Scan# 796
 Delta R.T. 0.006 min
 Lab File: VX048004.D
 Acq: 03 Oct 2025 18:41

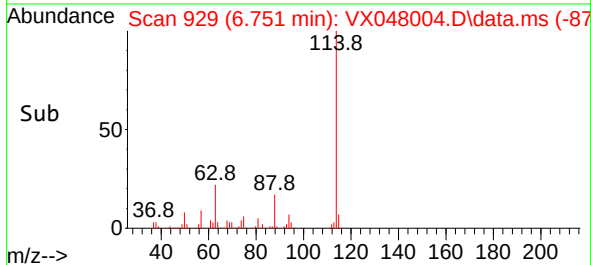
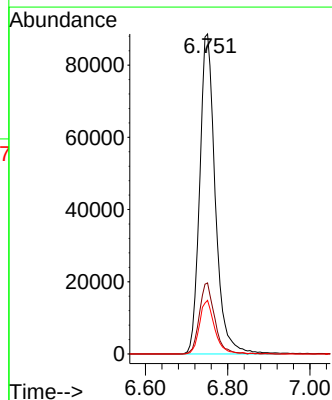
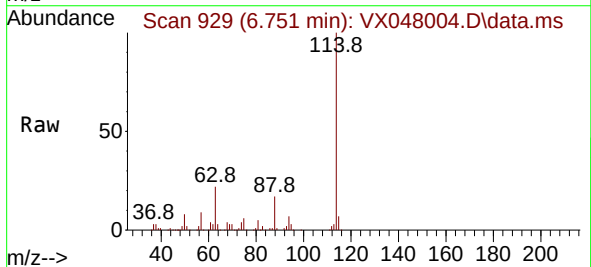
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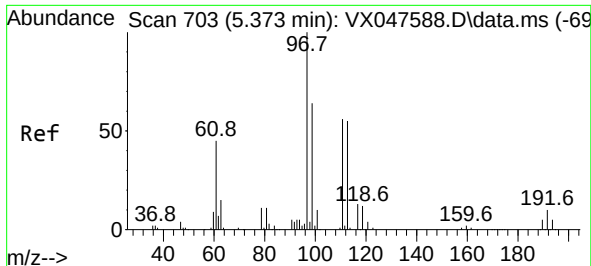
Tgt Ion: 65 Resp: 90546
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.751 min Scan# 929
 Delta R.T. 0.006 min
 Lab File: VX048004.D
 Acq: 03 Oct 2025 18:41

Tgt Ion: 114 Resp: 233399
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 44.0
 88 16.8 0.0 34.2

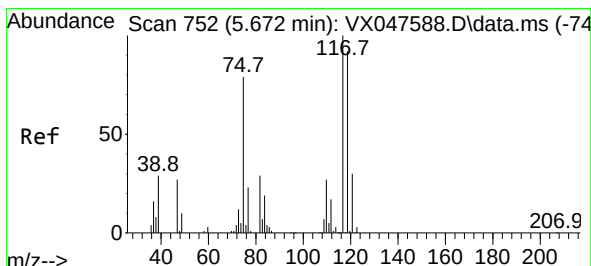
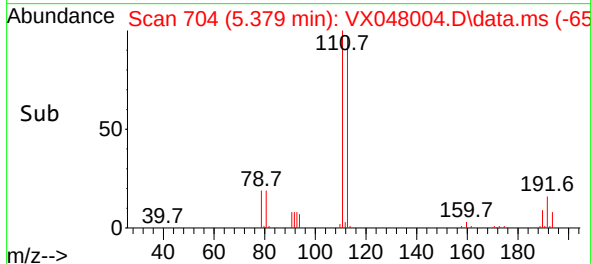
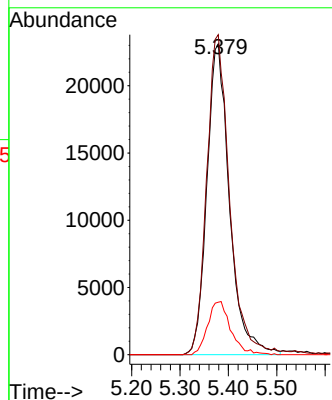
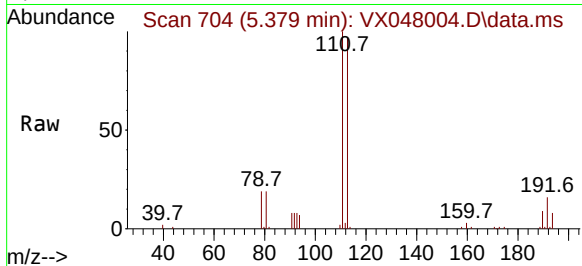




#35
Dibromofluoromethane
Concen: 47.871 ug/l
RT: 5.379 min Scan# 703
Delta R.T. 0.006 min
Lab File: VX048004.D
Acq: 03 Oct 2025 18:41

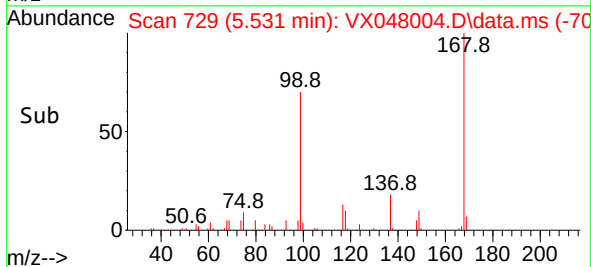
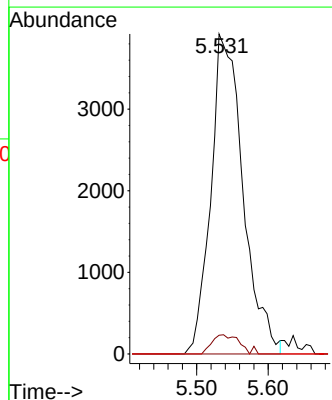
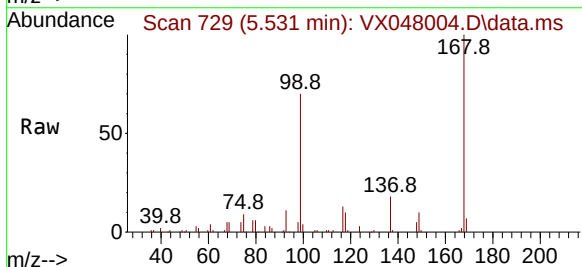
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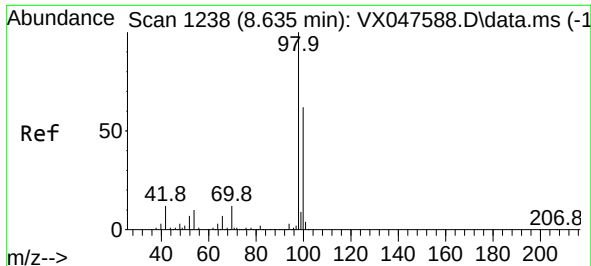
Tgt Ion:113 Resp: 74933
Ion Ratio Lower Upper
113 100
111 104.7 80.9 121.3
192 17.5 14.2 21.4



#38
Carbon Tetrachloride
Concen: 4.926 ug/l
RT: 5.531 min Scan# 729
Delta R.T. -0.140 min
Lab File: VX048004.D
Acq: 03 Oct 2025 18:41

Tgt Ion:117 Resp: 12241
Ion Ratio Lower Upper
117 100
119 5.8 73.4 110.2#
121 0.0 23.8 35.6#

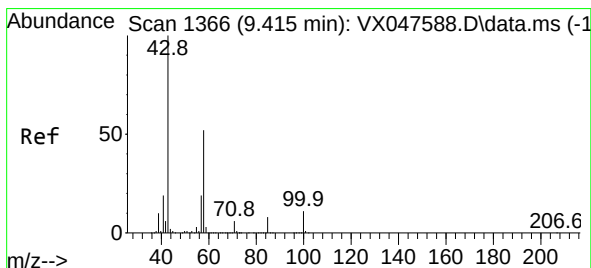
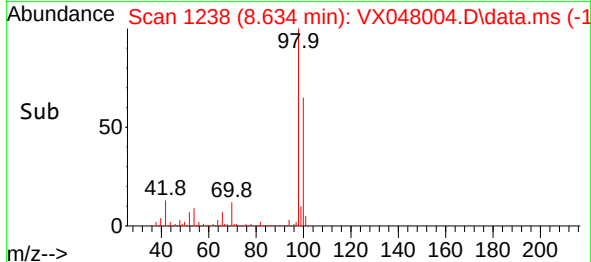
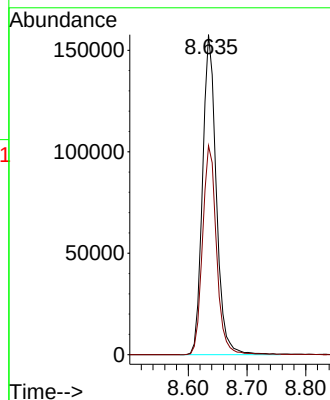
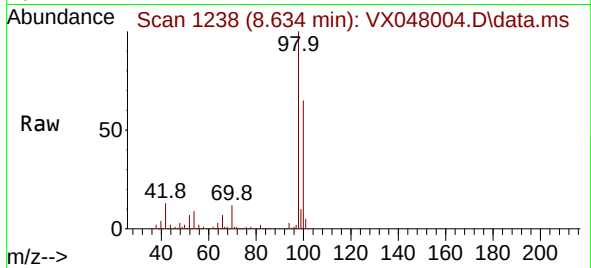




#50
Toluene-d8
Concen: 47.270 ug/l
RT: 8.634 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048004.D
Acq: 03 Oct 2025 18:41

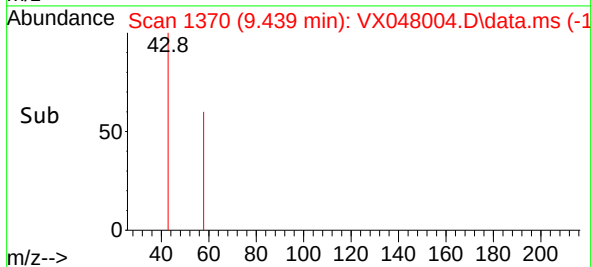
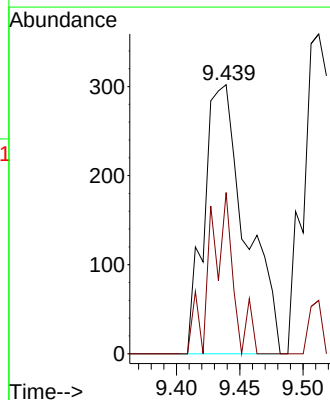
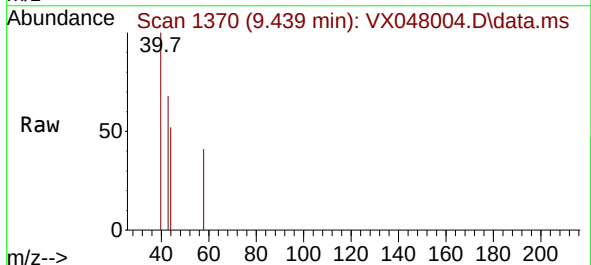
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-685-687

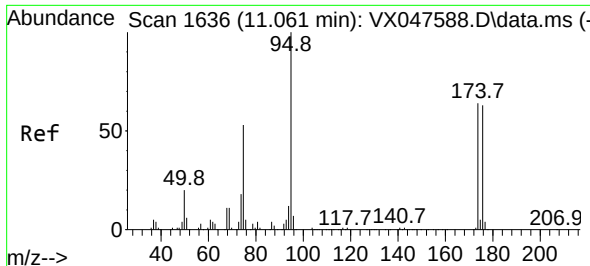
Tgt Ion: 98 Resp: 256028
Ion Ratio Lower Upper
98 100
100 66.5 53.0 79.4



#59
2-Hexanone
Concen: 0.430 ug/l
RT: 9.439 min Scan# 1370
Delta R.T. 0.024 min
Lab File: VX048004.D
Acq: 03 Oct 2025 18:41

Tgt Ion: 43 Resp: 688
Ion Ratio Lower Upper
43 100
58 33.6 26.1 78.2

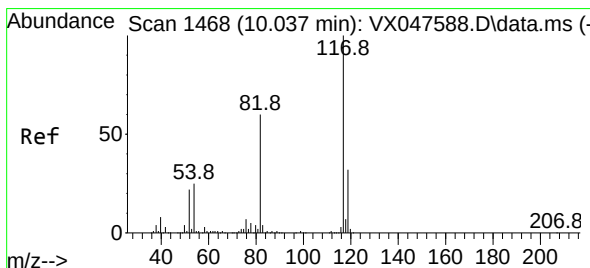
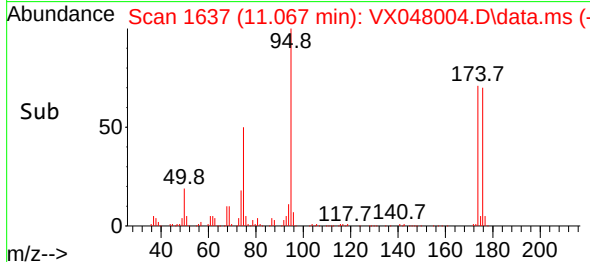
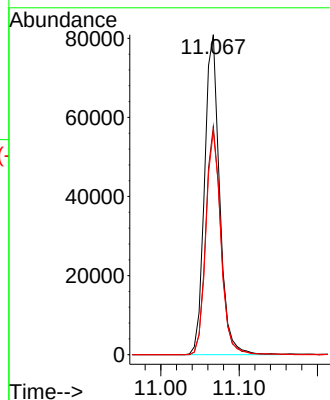
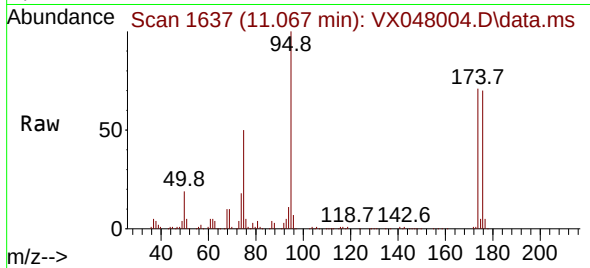




#62
4-Bromofluorobenzene
Concen: 52.267 ug/l
RT: 11.067 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX048004.D
Acq: 03 Oct 2025 18:41

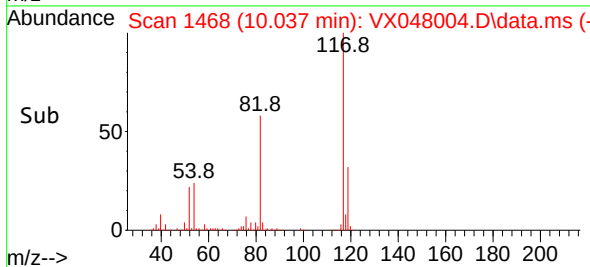
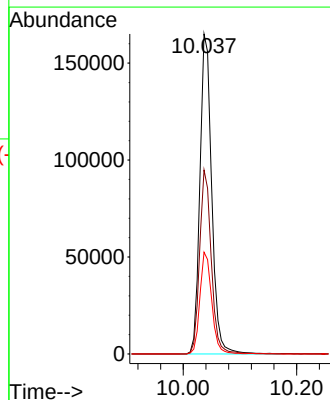
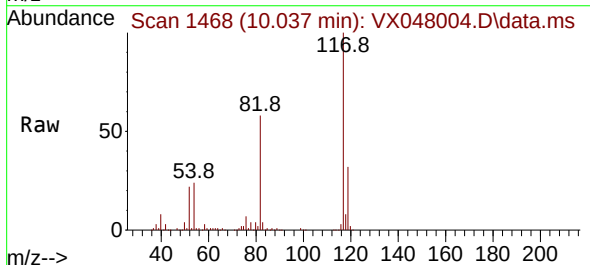
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-685-687

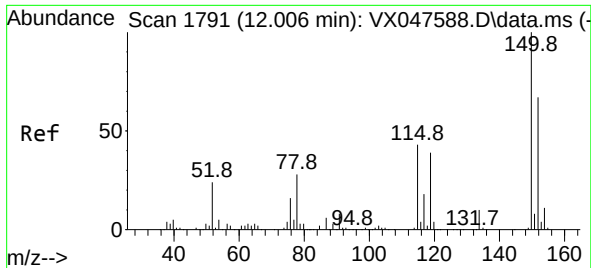
Tgt Ion: 95 Resp: 107438
Ion Ratio Lower Upper
95 100
174 71.4 0.0 141.6
176 69.7 0.0 138.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048004.D
Acq: 03 Oct 2025 18:41

Tgt Ion: 117 Resp: 238258
Ion Ratio Lower Upper
117 100
82 57.5 47.8 71.6
119 31.8 25.2 37.8

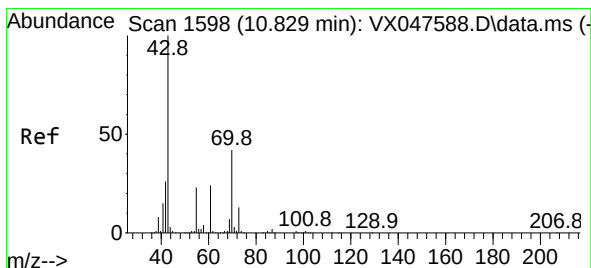
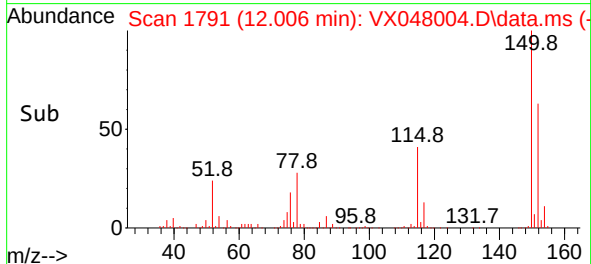
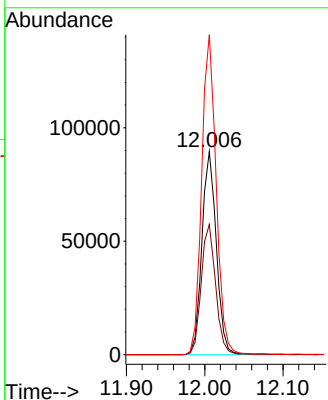
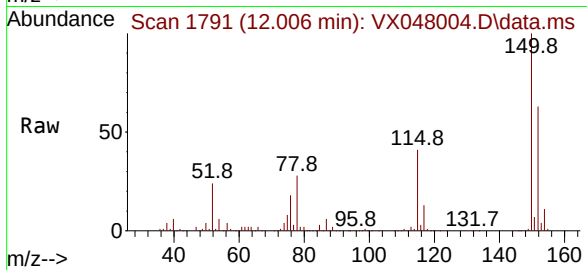




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048004.D
Acq: 03 Oct 2025 18:41

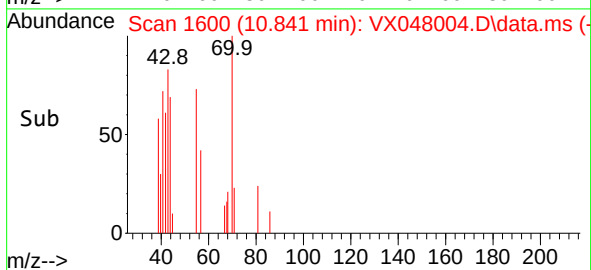
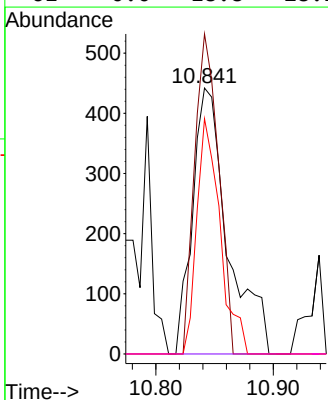
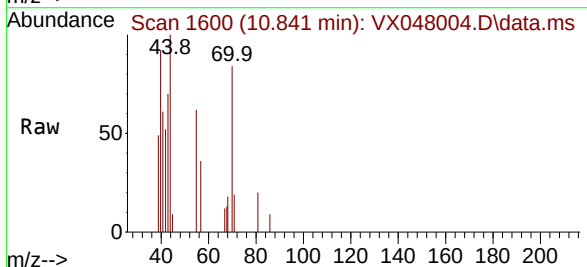
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-685-687

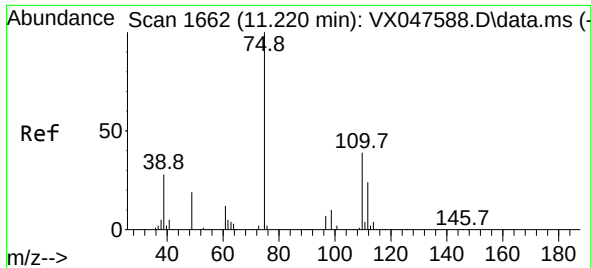
Tgt Ion:152 Resp: 114439
Ion Ratio Lower Upper
152 100
115 64.3 44.9 134.5
150 158.2 0.0 352.0



#74
N-ethyl acetate
Concen: 0.233 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.012 min
Lab File: VX048004.D
Acq: 03 Oct 2025 18:41

Tgt Ion: 43 Resp: 923
Ion Ratio Lower Upper
43 100
70 81.9 32.0 48.0#
55 58.3 18.9 28.3#
61 0.0 18.8 28.2#

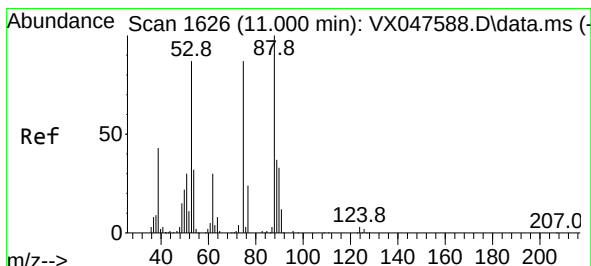
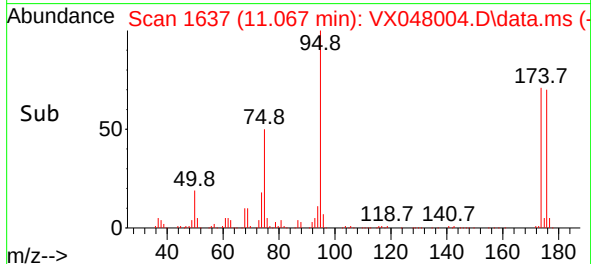
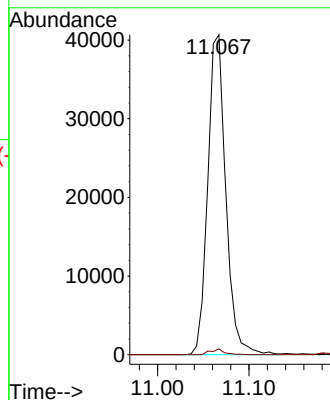
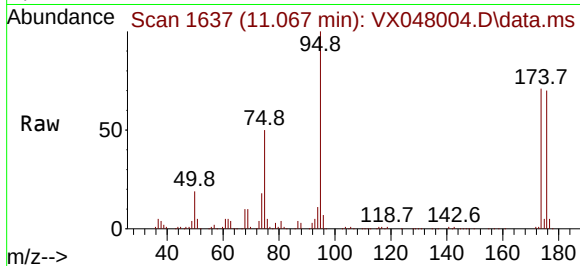




#76
1,2,3-Trichloropropane
Concen: 24.025 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. -0.153 min
Lab File: VX048004.D
Acq: 03 Oct 2025 18:41

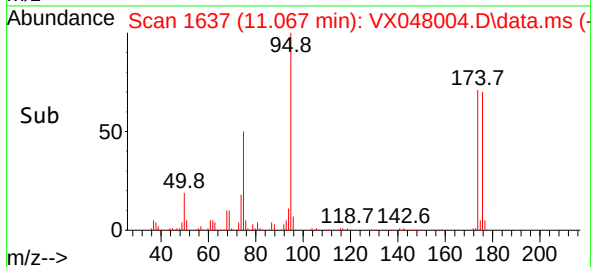
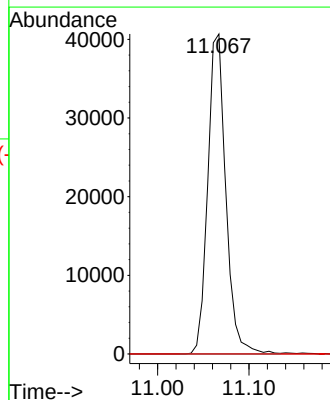
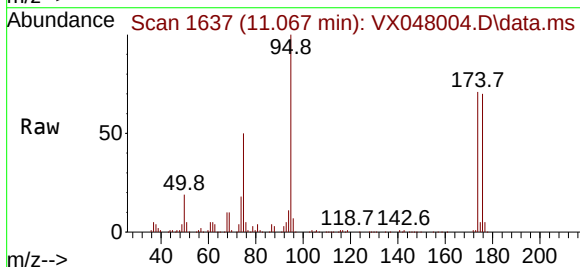
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-685-687

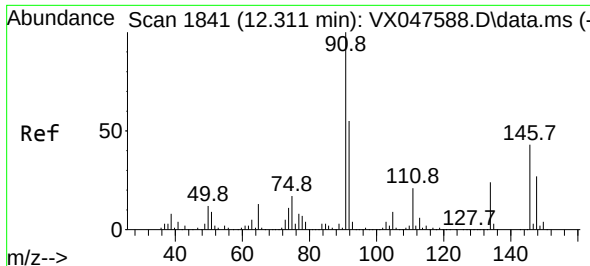
Tgt Ion: 75 Resp: 55666
Ion Ratio Lower Upper
75 100
77 1.4 18.8 56.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 61.266 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. 0.067 min
Lab File: VX048004.D
Acq: 03 Oct 2025 18:41

Tgt Ion: 75 Resp: 55666
Ion Ratio Lower Upper
75 100
53 0.0 83.4 125.2#
89 0.0 36.3 54.5#





#89

n-Butylbenzene

Concen: 0.273 ug/l

RT: 12.317 min Scan# 1841

Delta R.T. 0.006 min

Lab File: VX048004.D

Acq: 03 Oct 2025 18:41

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-184-GW-685-687

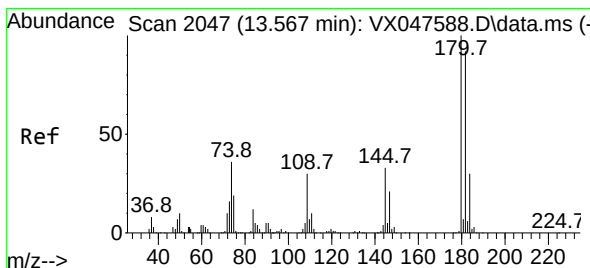
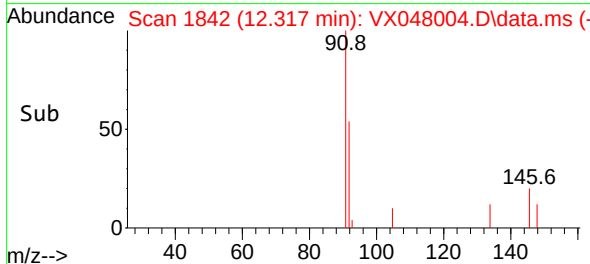
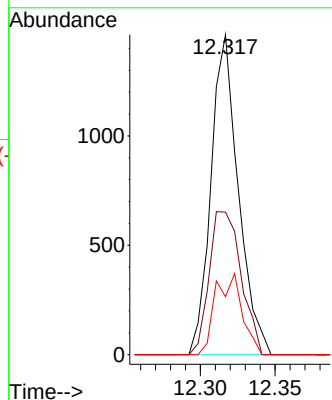
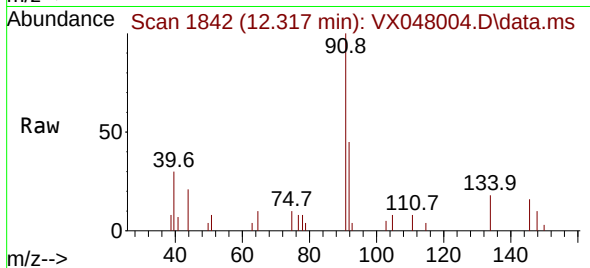
Tgt Ion: 91 Resp: 1859

Ion Ratio Lower Upper

91 100

92 52.3 27.6 82.7

134 24.7 12.6 37.8



#93

1,2,4-Trichlorobenzene

Concen: 0.347 ug/l

RT: 13.579 min Scan# 2049

Delta R.T. 0.012 min

Lab File: VX048004.D

Acq: 03 Oct 2025 18:41

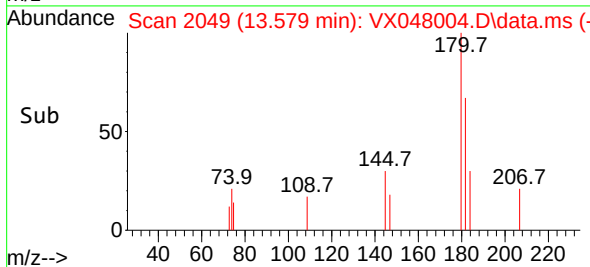
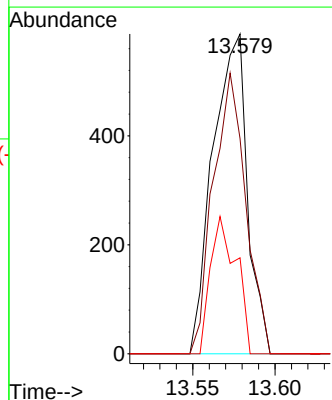
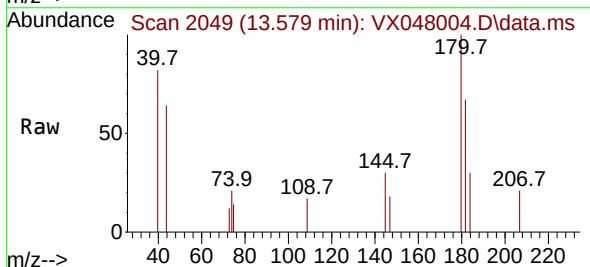
Tgt Ion: 180 Resp: 854

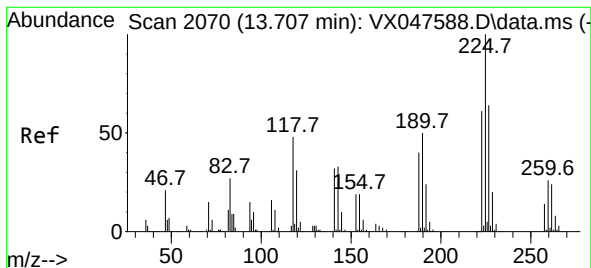
Ion Ratio Lower Upper

180 100

182 82.9 46.6 139.8

145 32.2 16.4 49.1





#94

Hexachlorobutadiene

Concen: 1.104 ug/l

RT: 13.707 min Scan# 2070

Delta R.T. -0.000 min

Lab File: VX048004.D

Acq: 03 Oct 2025 18:41

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-184-GW-685-687

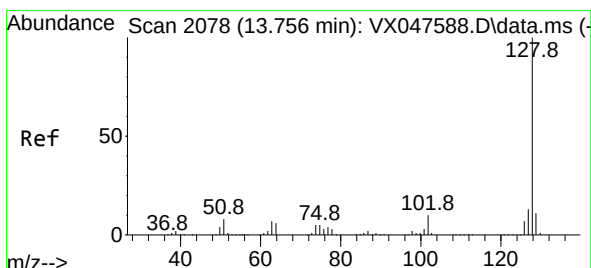
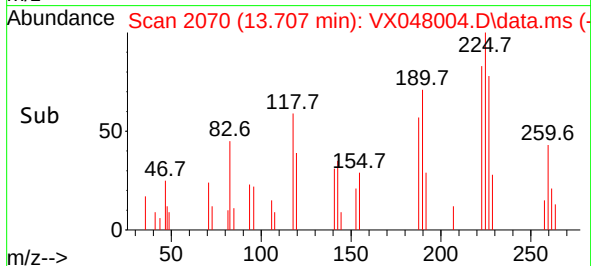
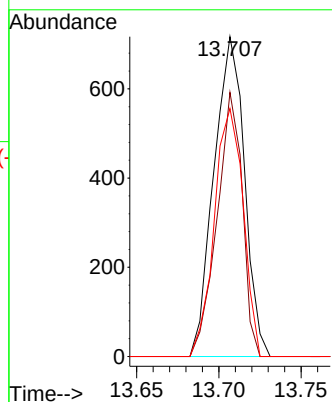
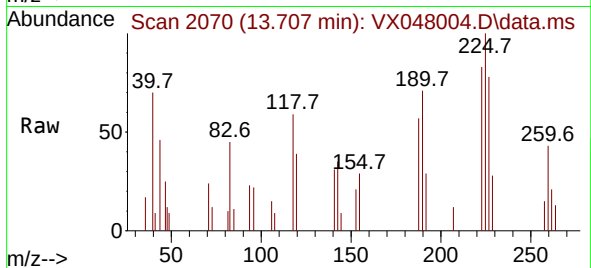
Tgt Ion:225 Resp: 924

Ion Ratio Lower Upper

225 100

223 68.3 31.7 95.1

227 73.3 32.0 96.0



#95

Naphthalene

Concen: 0.330 ug/l

RT: 13.756 min Scan# 2078

Delta R.T. -0.000 min

Lab File: VX048004.D

Acq: 03 Oct 2025 18:41

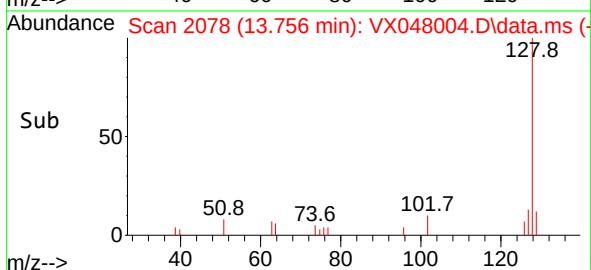
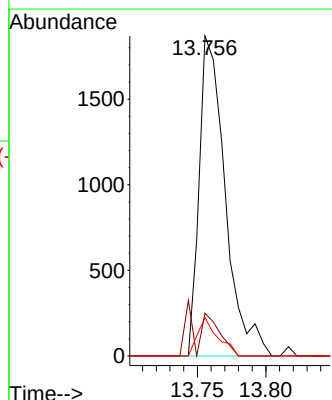
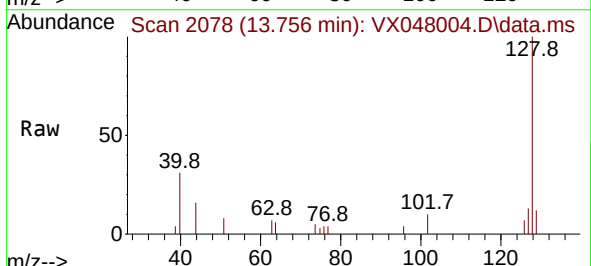
Tgt Ion:128 Resp: 2473

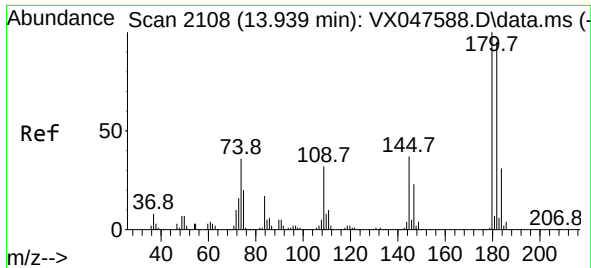
Ion Ratio Lower Upper

128 100

127 9.3 10.2 15.2#

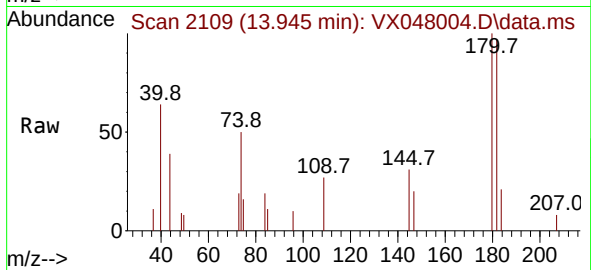
129 9.3 8.8 13.2





#96
 1,2,3-Trichlorobenzene
 Concen: 0.453 ug/l
 RT: 13.945 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VX048004.D
 Acq: 03 Oct 2025 18:41

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB-184-GW-685-687



Tgt Ion	Ratio	Lower	Upper
180	100		
182	86.7	47.6	142.8
145	31.5	17.9	53.7

