

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091523\
 Data File : VX037758.D
 Acq On : 15 Sep 2023 16:28
 Operator : JC/MD
 Sample : 04390-02RE
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB-RW10A-GW-58-60

Quant Time: Sep 16 05:46:33 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091523W.M
 Quant Title : SW846 8260
 QLast Update : Sat Sep 16 04:55:44 2023
 Response via : Initial Calibration

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

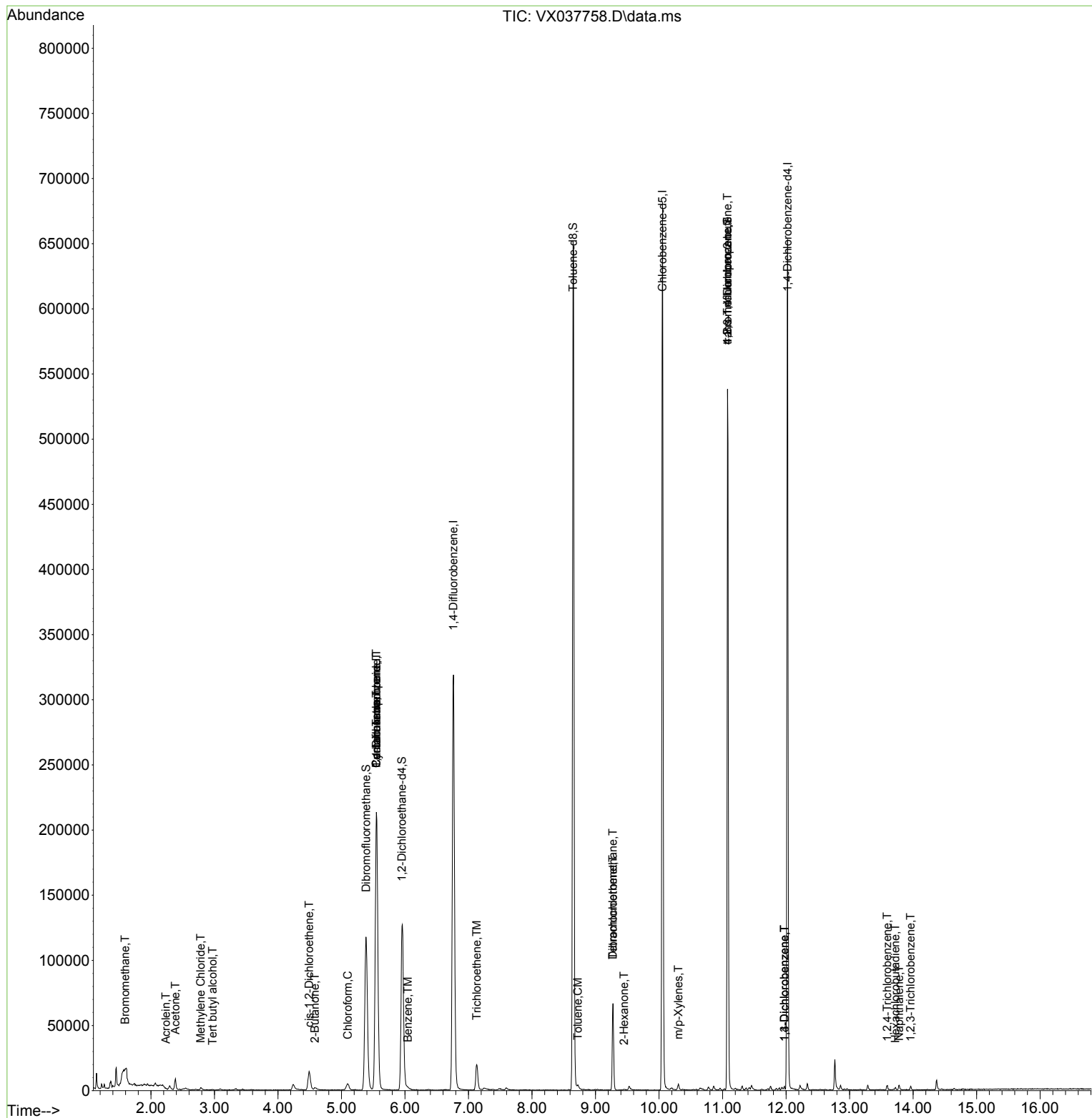
Internal Standards						
1) Pentafluorobenzene	5.550	168	208648	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	6.763	114	336829	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	309413	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	138643	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	123732	45.136	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	90.280%		
35) Dibromofluoromethane	5.385	113	102635	45.540	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	91.080%		
50) Toluene-d8	8.647	98	404761	48.335	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	96.680%		
62) 4-Bromofluorobenzene	11.079	95	140950	46.320	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	92.640%		
Target Compounds						Qvalue
5) Bromomethane	1.593	94	581	0.314	ug/l	# 52
11) Tert butyl alcohol	2.971	59	400	0.680	ug/l	# 78
13) Acrolein	2.233	56	367	0.631	ug/l	# 27
16) Acetone	2.386	43	8576	6.503	ug/l	90
20) Methylene Chloride	2.782	84	976	0.375	ug/l	# 80
25) 2-Butanone	4.580	43	3732	2.005	ug/l	# 88
27) cis-1,2-Dichloroethene	4.489	96	9771	3.526	ug/l	77
30) Chloroform	5.098	83	5883	1.291	ug/l	93
31) Cyclohexane	5.550	56	4619	1.313	ug/l	# 1
36) 1,1-Dichloropropene	5.550	75	16138	5.198	ug/l	# 51
38) Carbon Tetrachloride	5.550	117	20850	6.419	ug/l	# 16
40) Benzene	6.043	78	2111	0.221	ug/l	96
44) Trichloroethene	7.129	130	8370	3.148	ug/l	100
52) Toluene	8.720	92	1354	0.220	ug/l	88
59) 2-Hexanone	9.451	43	781	0.290	ug/l	71
60) Dibromochloromethane	9.275	129	12124	4.691	ug/l	# 11
64) Tetrachloroethene	9.275	164	11940	5.658	ug/l	98
68) m/p-Xylenes	10.305	106	1003	0.224	ug/l	77
76) 1,2,3-Trichloropropane	11.079	75	72435	22.589	ug/l	# 39
81) trans-1,4-Dichloro-2-b...	11.079	75	72435	72.360	ug/l	# 5
87) 1,3-Dichlorobenzene	11.975	146	1018	0.217	ug/l	93
88) 1,4-Dichlorobenzene	11.975	146	1018	0.212	ug/l	94
93) 1,2,4-Trichlorobenzene	13.591	180	1186	0.420	ug/l	94
94) Hexachlorobutadiene	13.719	225	367	0.278	ug/l	77
95) Naphthalene	13.780	128	3069	0.322	ug/l	# 95
96) 1,2,3-Trichlorobenzene	13.963	180	763	0.263	ug/l	98

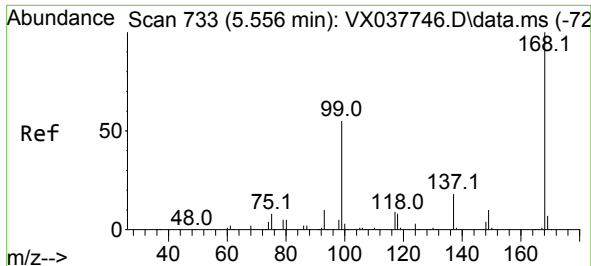
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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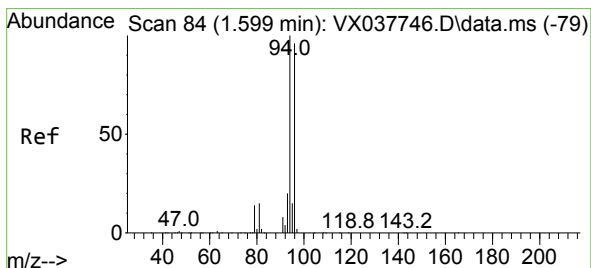
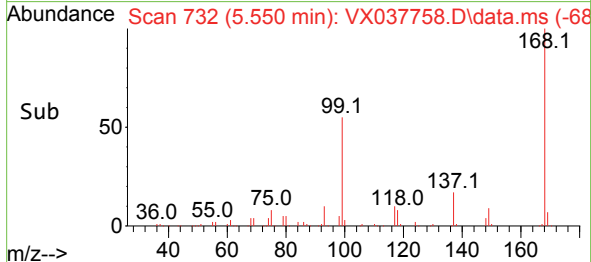
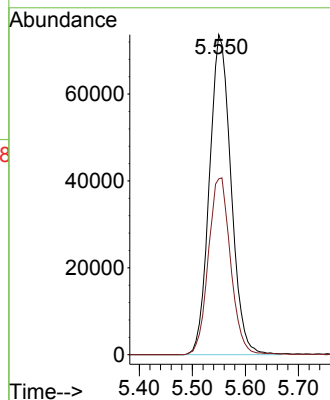
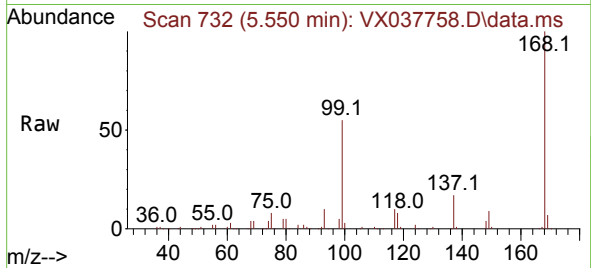




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX037758.D
Acq: 15 Sep 2023 16:28

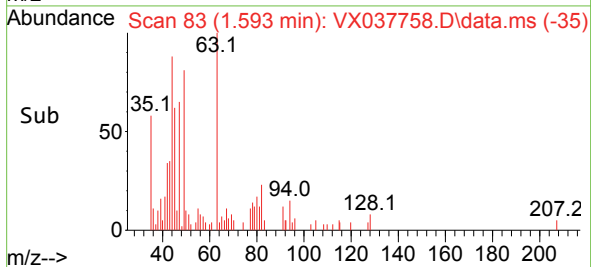
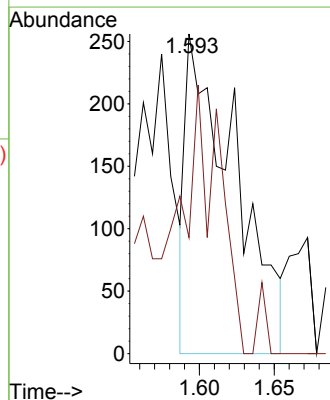
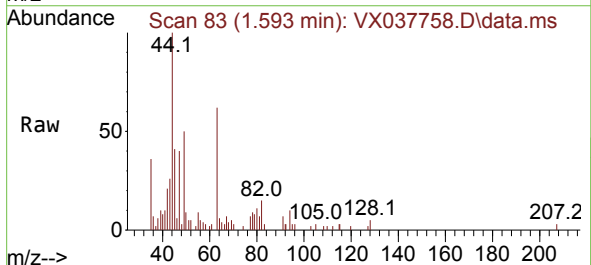
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-RW10A-GW-58-60

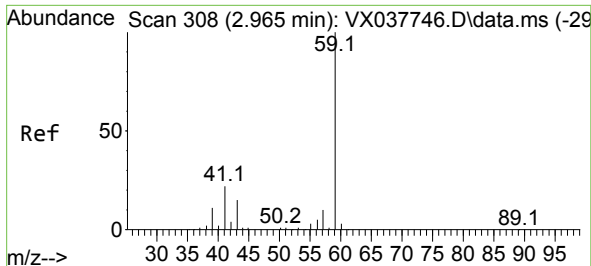
Tgt Ion:168 Resp: 208648
Ion Ratio Lower Upper
168 100
99 54.9 56.6 85.0#



#5
Bromomethane
Concen: 0.314 ug/l
RT: 1.593 min Scan# 83
Delta R.T. -0.006 min
Lab File: VX037758.D
Acq: 15 Sep 2023 16:28

Tgt Ion: 94 Resp: 581
Ion Ratio Lower Upper
94 100
96 47.4 74.6 111.8#





#11

Tert butyl alcohol

Concen: 0.680 ug/l

RT: 2.971 min Scan# 308

Delta R.T. 0.006 min

Lab File: VX037758.D

Acq: 15 Sep 2023 16:28

Instrument :

MSVOA_X

ClientSampleId :

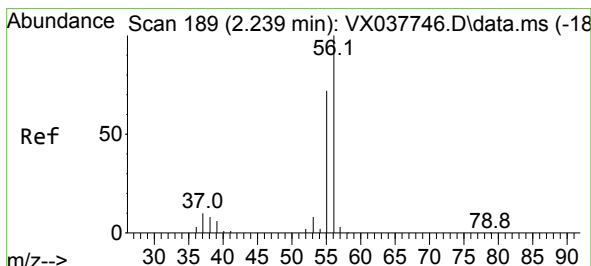
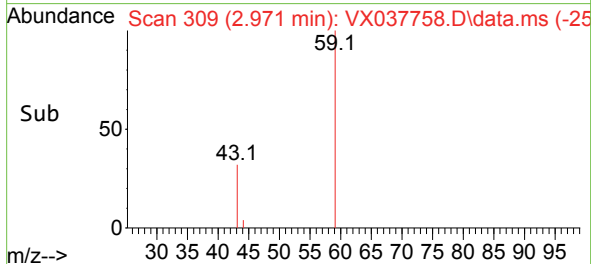
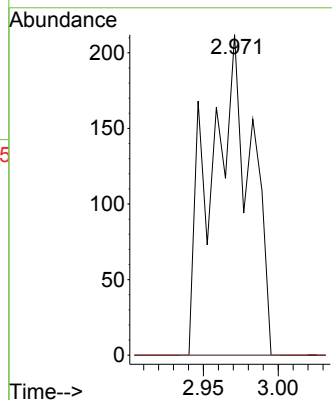
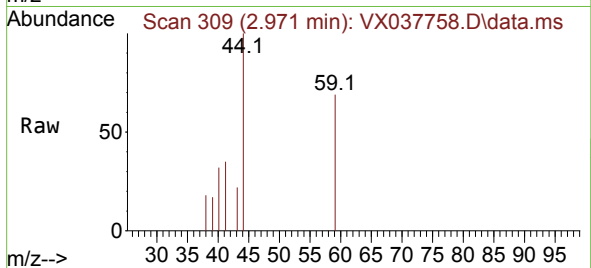
BP-VPB-RW10A-GW-58-60

Tgt Ion: 59 Resp: 400

Ion Ratio Lower Upper

59 100

57 0.0 6.0 9.0#



#13

Acrolein

Concen: 0.631 ug/l

RT: 2.233 min Scan# 188

Delta R.T. -0.006 min

Lab File: VX037758.D

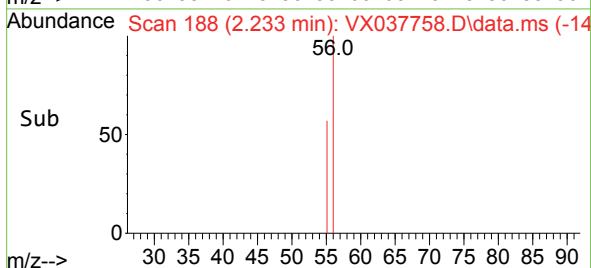
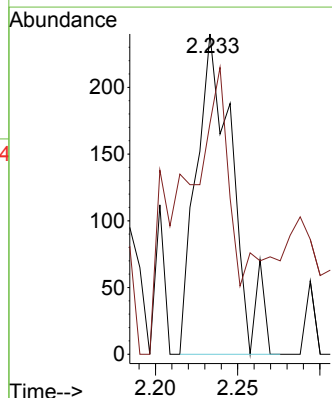
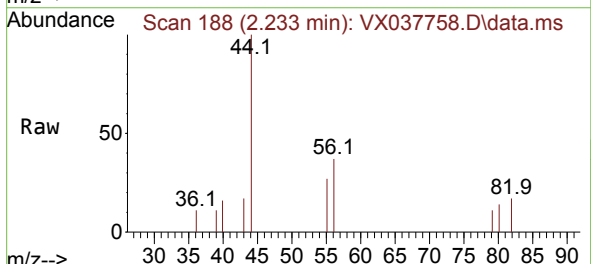
Acq: 15 Sep 2023 16:28

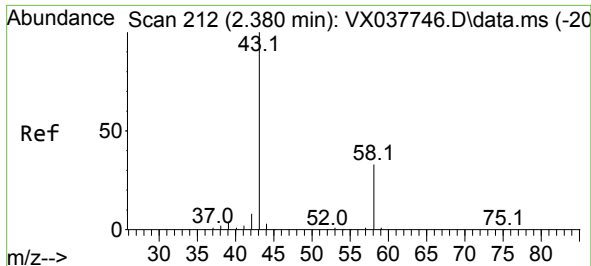
Tgt Ion: 56 Resp: 367

Ion Ratio Lower Upper

56 100

55 132.2 57.1 85.7#

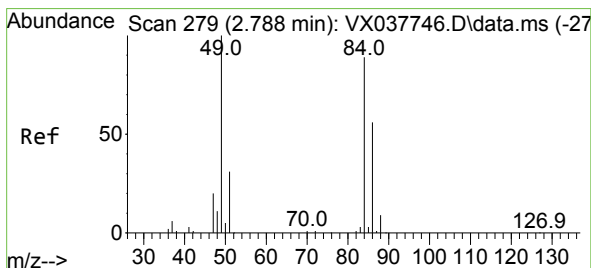
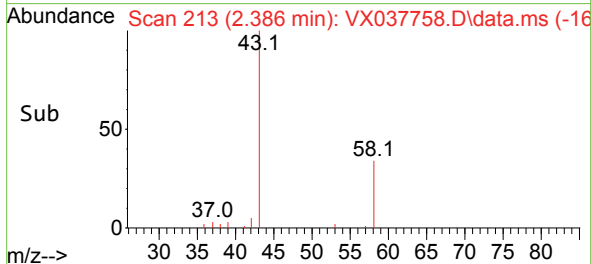
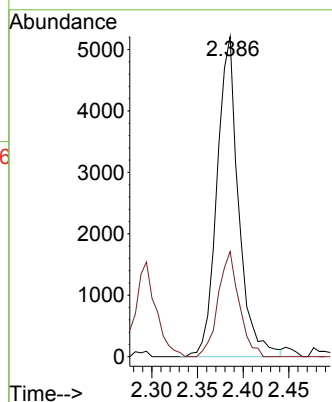
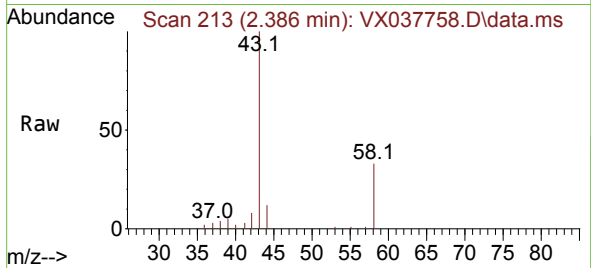




#16
Acetone
Concen: 6.503 ug/l
RT: 2.386 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX037758.D
Acq: 15 Sep 2023 16:28

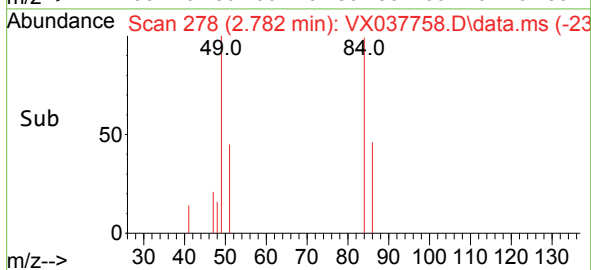
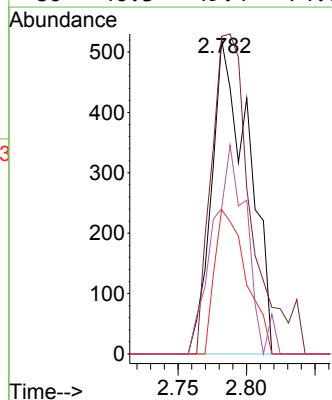
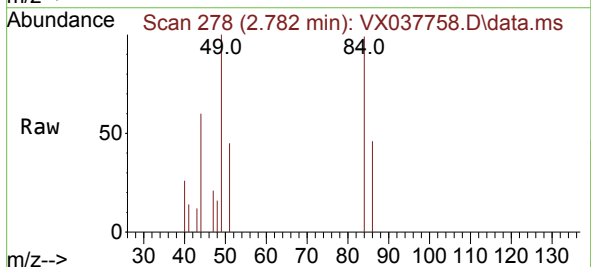
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-RW10A-GW-58-60

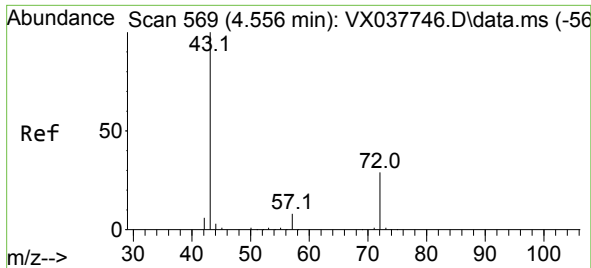
Tgt Ion: 43 Resp: 8576
Ion Ratio Lower Upper
43 100
58 32.9 21.9 32.9



#20
Methylene Chloride
Concen: 0.375 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.006 min
Lab File: VX037758.D
Acq: 15 Sep 2023 16:28

Tgt Ion: 84 Resp: 976
Ion Ratio Lower Upper
84 100
49 101.2 103.6 155.4#
51 46.0 33.8 50.6
86 46.3 49.4 74.0#





#25

2-Butanone

Concen: 2.005 ug/l

RT: 4.580 min Scan# 51

Delta R.T. 0.012 min

Lab File: VX037758.D

Acq: 15 Sep 2023 16:28

Instrument :

MSVOA_X

ClientSampleId :

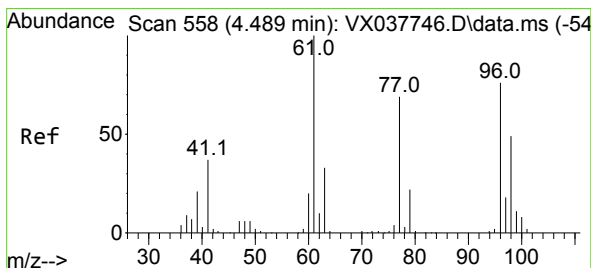
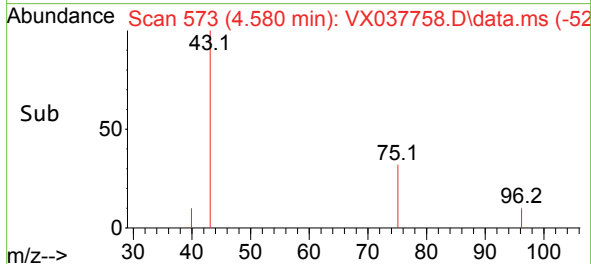
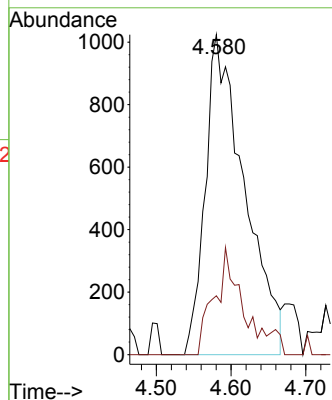
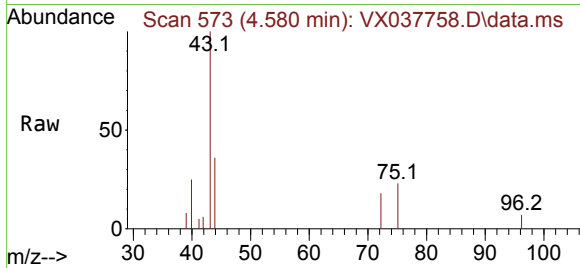
BP-VPB-RW10A-GW-58-60

Tgt Ion: 43 Resp: 3732

Ion Ratio Lower Upper

43 100

72 18.4 19.4 29.2#



#27

cis-1,2-Dichloroethene

Concen: 3.526 ug/l

RT: 4.489 min Scan# 558

Delta R.T. -0.000 min

Lab File: VX037758.D

Acq: 15 Sep 2023 16:28

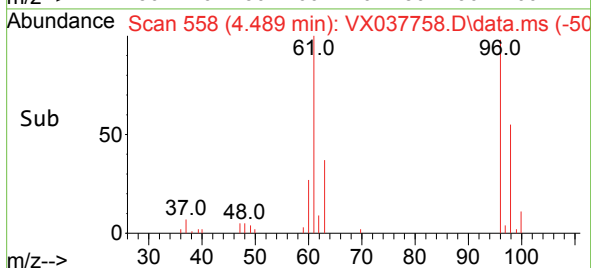
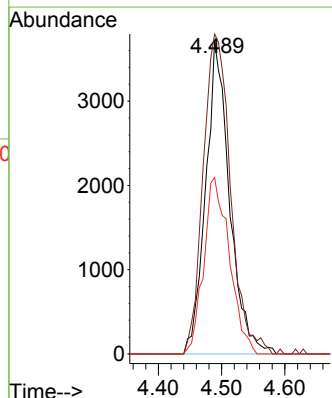
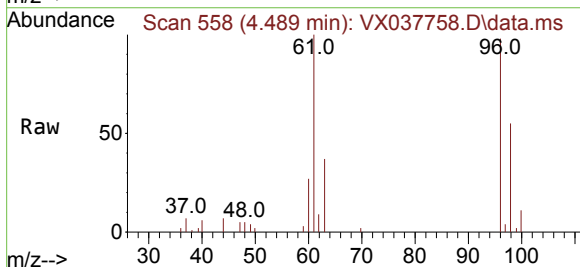
Tgt Ion: 96 Resp: 9771

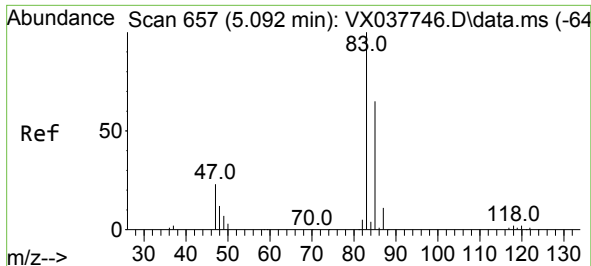
Ion Ratio Lower Upper

96 100

61 117.2 0.0 312.2

98 60.3 0.0 129.0





#30

Chloroform

Concen: 1.291 ug/l

RT: 5.098 min Scan# 61

Delta R.T. 0.006 min

Lab File: VX037758.D

Acq: 15 Sep 2023 16:28

Instrument :

MSVOA_X

ClientSampleId :

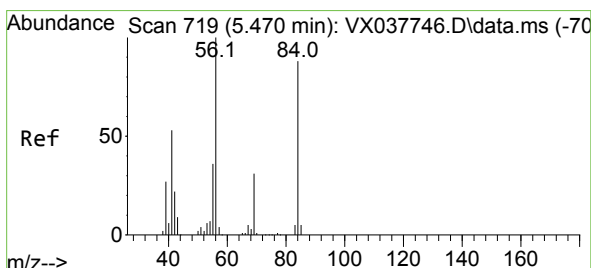
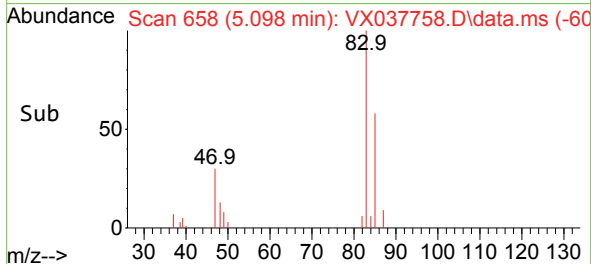
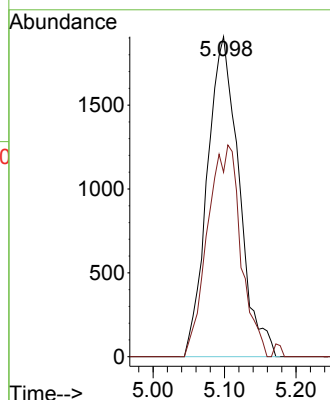
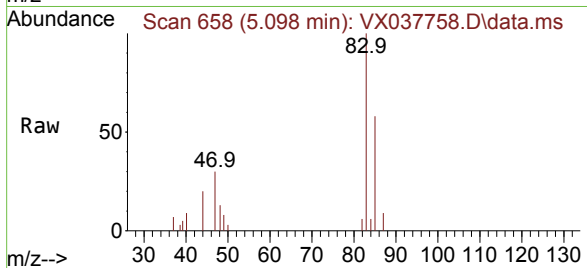
BP-VPB-RW10A-GW-58-60

Tgt Ion: 83 Resp: 5883

Ion Ratio Lower Upper

83 100

85 57.7 50.3 75.5



#31

Cyclohexane

Concen: 1.313 ug/l

RT: 5.550 min Scan# 732

Delta R.T. 0.079 min

Lab File: VX037758.D

Acq: 15 Sep 2023 16:28

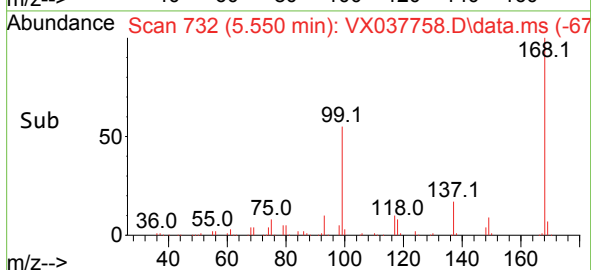
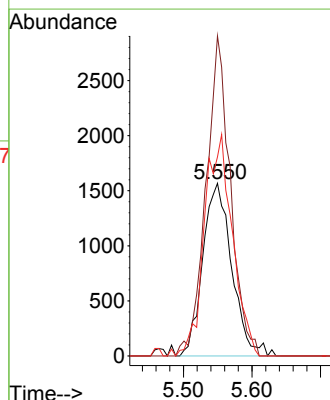
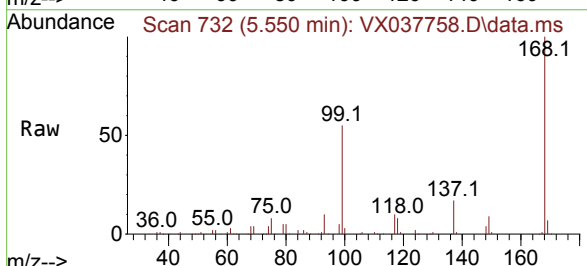
Tgt Ion: 56 Resp: 4619

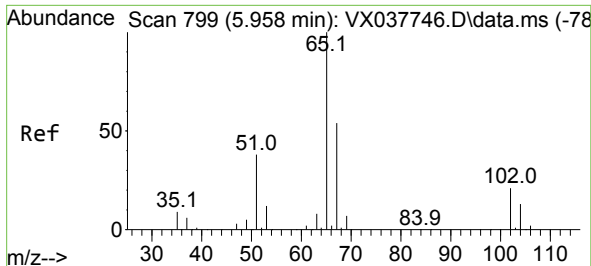
Ion Ratio Lower Upper

56 100

69 185.4 23.4 35.2#

84 115.3 65.9 98.9#





#33

1,2-Dichloroethane-d4

Concen: 45.136 ug/l

RT: 5.952 min Scan# 799

Delta R.T. -0.006 min

Lab File: VX037758.D

Acq: 15 Sep 2023 16:28

Instrument :

MSVOA_X

ClientSampleId :

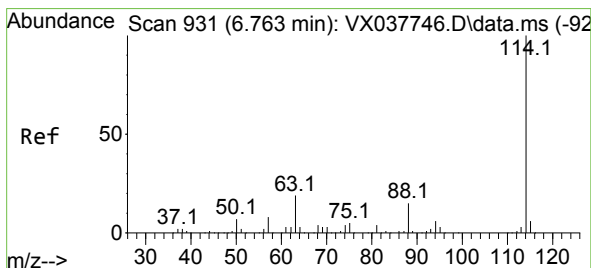
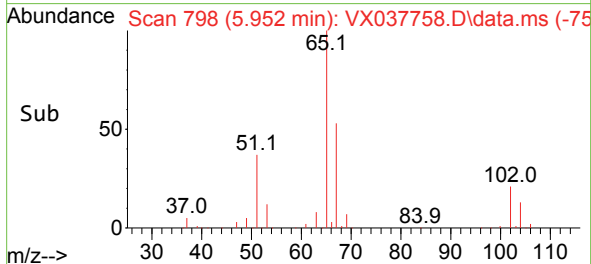
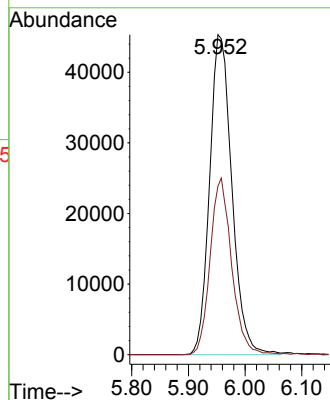
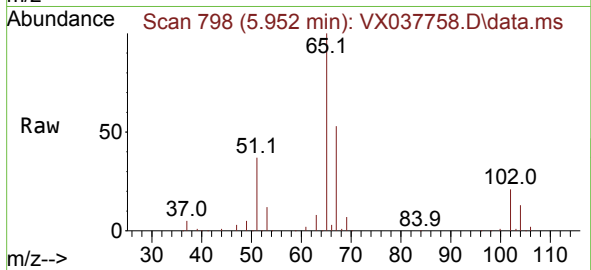
BP-VPB-RW10A-GW-58-60

Tgt Ion: 65 Resp: 123732

Ion Ratio Lower Upper

65 100

67 53.3 0.0 100.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. -0.000 min

Lab File: VX037758.D

Acq: 15 Sep 2023 16:28

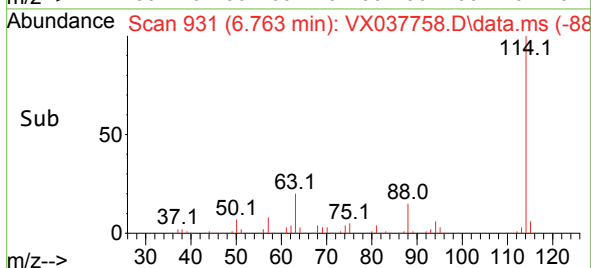
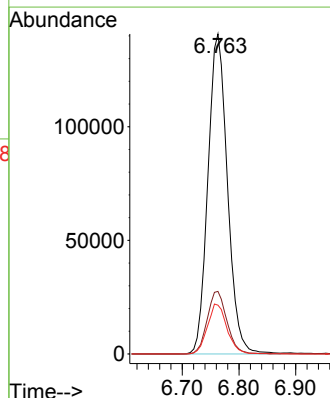
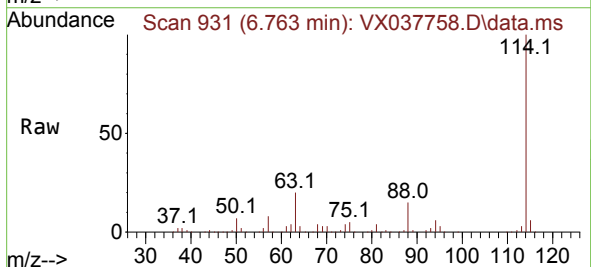
Tgt Ion: 114 Resp: 336829

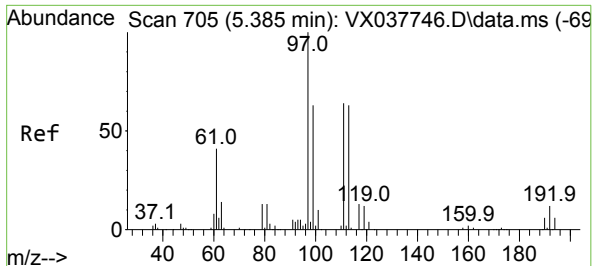
Ion Ratio Lower Upper

114 100

63 19.5 0.0 45.0

88 15.2 0.0 36.6

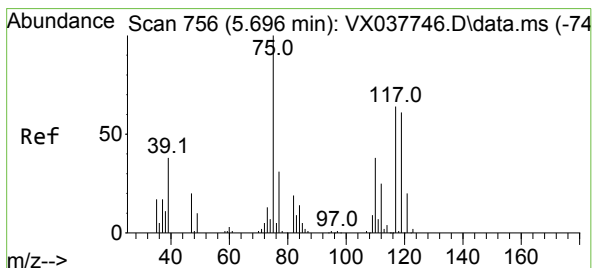
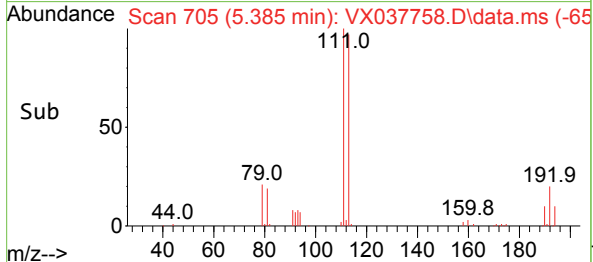
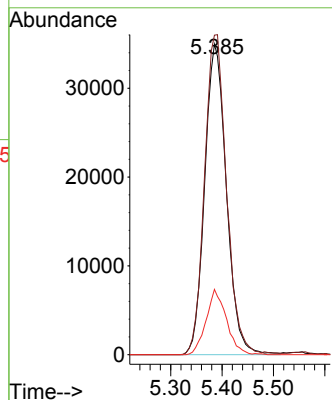
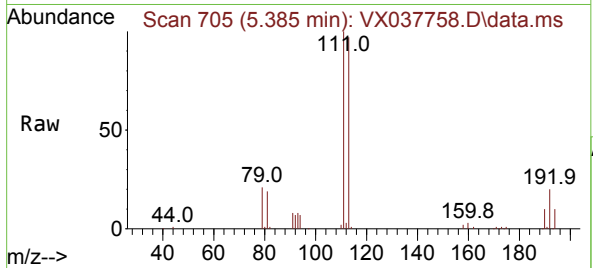




#35
Dibromofluoromethane
Concen: 45.540 ug/l
RT: 5.385 min Scan# 705
Delta R.T. -0.000 min
Lab File: VX037758.D
Acq: 15 Sep 2023 16:28

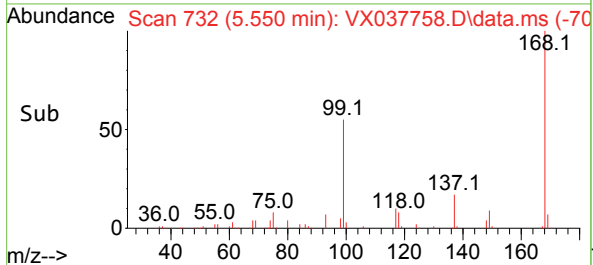
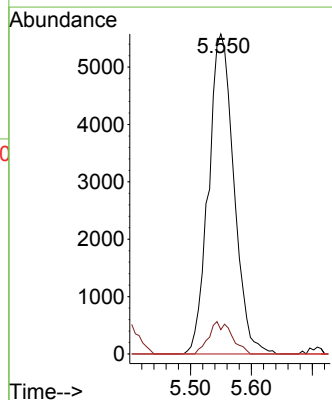
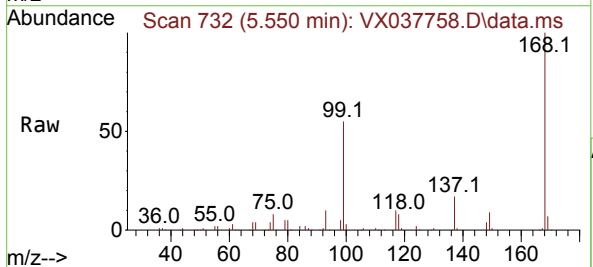
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-RW10A-GW-58-60

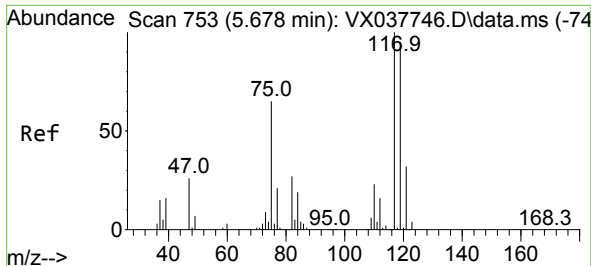
Tgt Ion:113 Resp: 102635
Ion Ratio Lower Upper
113 100
111 104.6 82.9 124.3
192 19.7 13.3 19.9



#36
1,1-Dichloropropene
Concen: 5.198 ug/l
RT: 5.550 min Scan# 732
Delta R.T. -0.147 min
Lab File: VX037758.D
Acq: 15 Sep 2023 16:28

Tgt Ion: 75 Resp: 16138
Ion Ratio Lower Upper
75 100
110 9.2 17.0 50.9#
77 0.0 24.7 37.1#

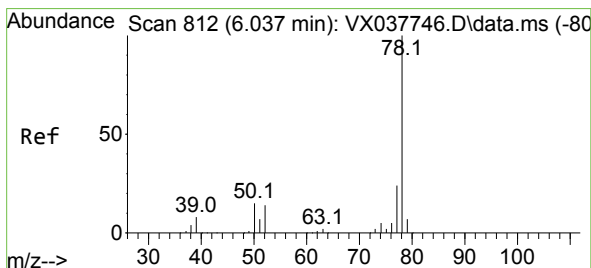
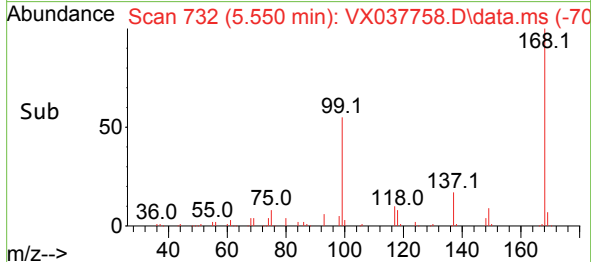
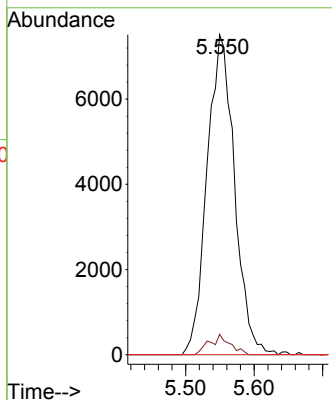
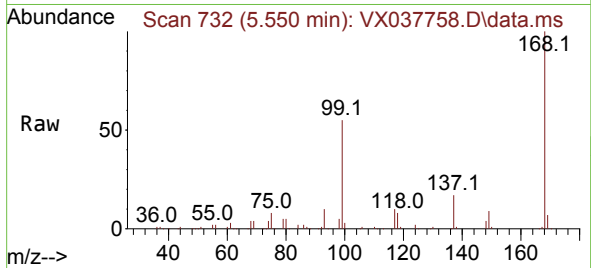




#38
Carbon Tetrachloride
Concen: 6.419 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.128 min
Lab File: VX037758.D
Acq: 15 Sep 2023 16:28

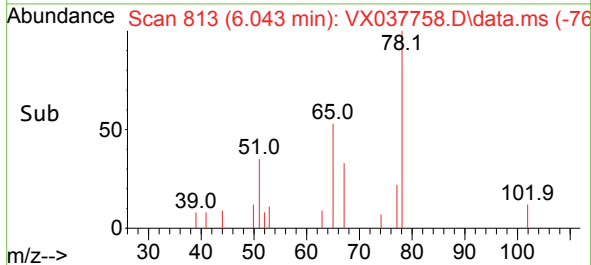
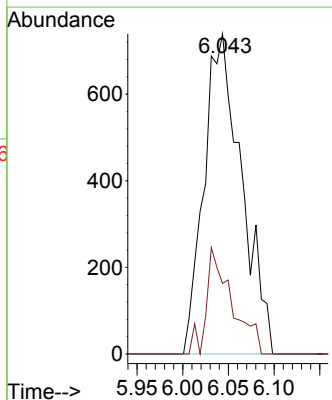
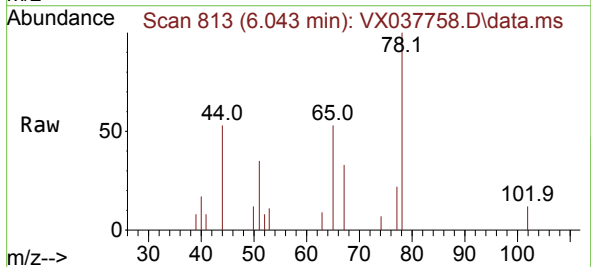
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-RW10A-GW-58-60

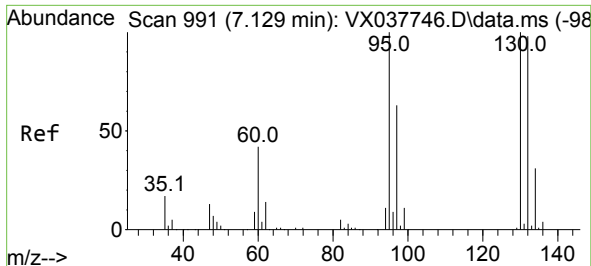
Tgt Ion:117 Resp: 20850
Ion Ratio Lower Upper
117 100
119 6.4 78.2 117.2#
121 0.0 24.4 36.6#



#40
Benzene
Concen: 0.221 ug/l
RT: 6.043 min Scan# 813
Delta R.T. -0.000 min
Lab File: VX037758.D
Acq: 15 Sep 2023 16:28

Tgt Ion: 78 Resp: 2111
Ion Ratio Lower Upper
78 100
77 22.1 19.3 28.9

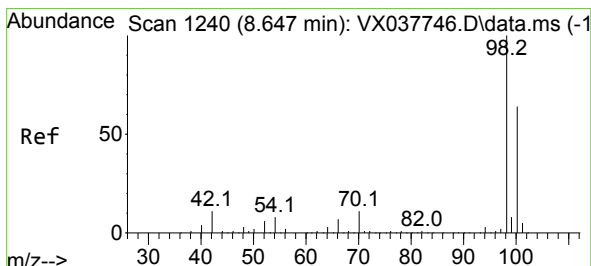
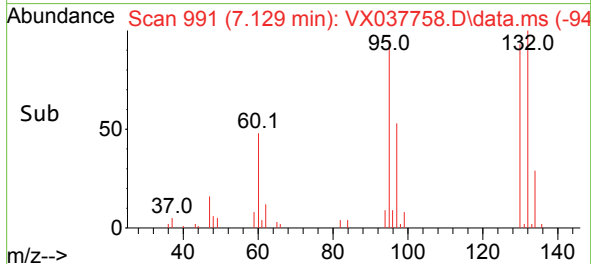
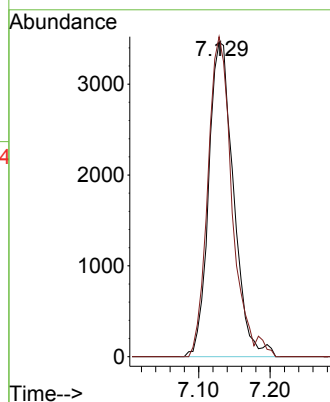
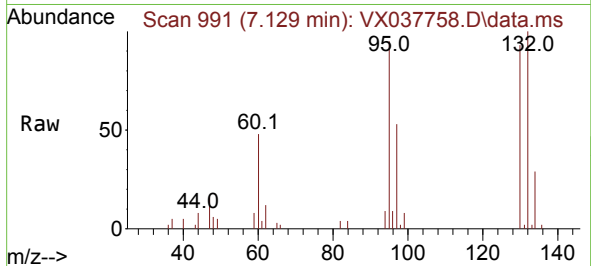




#44
Trichloroethene
Concen: 3.148 ug/l
RT: 7.129 min Scan# 991
Delta R.T. -0.006 min
Lab File: VX037758.D
Acq: 15 Sep 2023 16:28

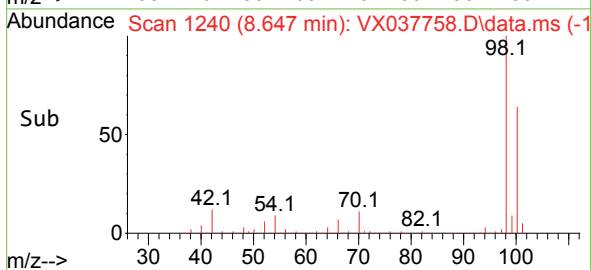
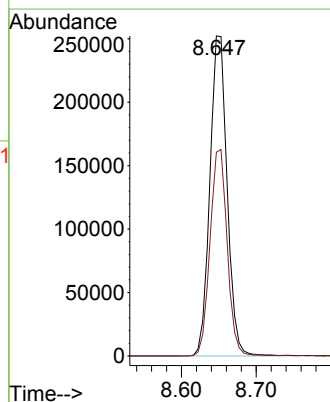
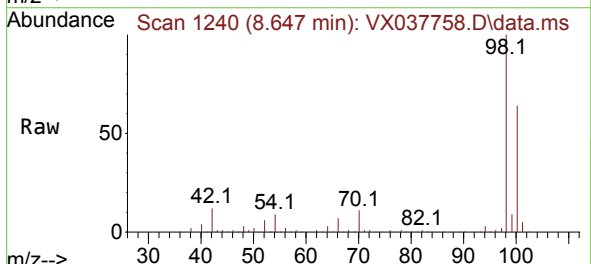
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-RW10A-GW-58-60

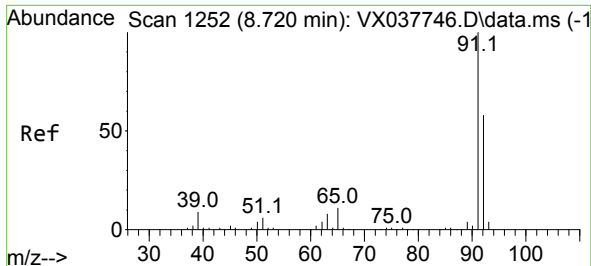
Tgt Ion:130 Resp: 8370
Ion Ratio Lower Upper
130 100
95 101.8 0.0 204.4



#50
Toluene-d8
Concen: 48.335 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX037758.D
Acq: 15 Sep 2023 16:28

Tgt Ion: 98 Resp: 404761
Ion Ratio Lower Upper
98 100
100 64.3 53.1 79.7

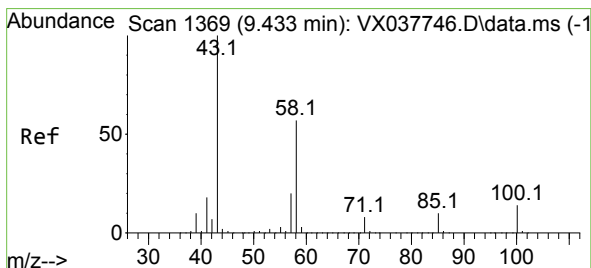
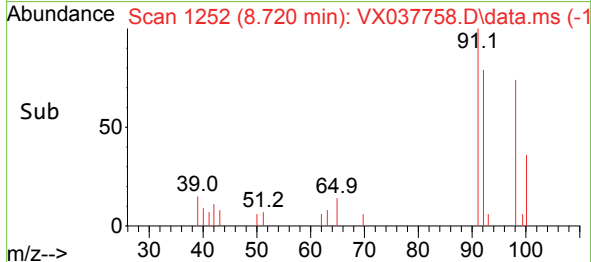
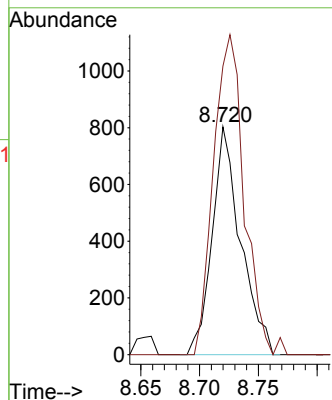
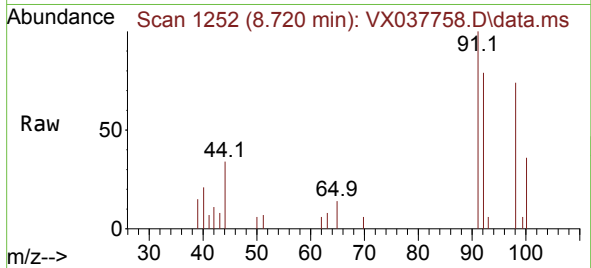




#52
Toluene
Concen: 0.220 ug/l
RT: 8.720 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX037758.D
Acq: 15 Sep 2023 16:28

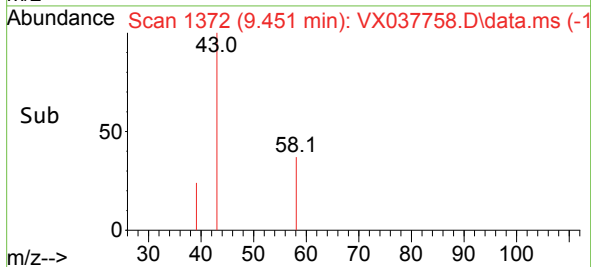
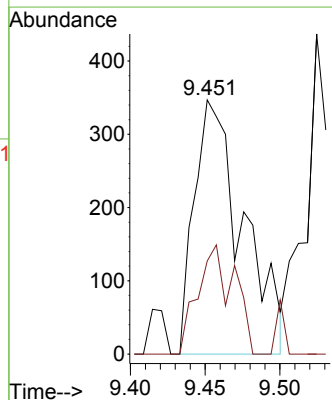
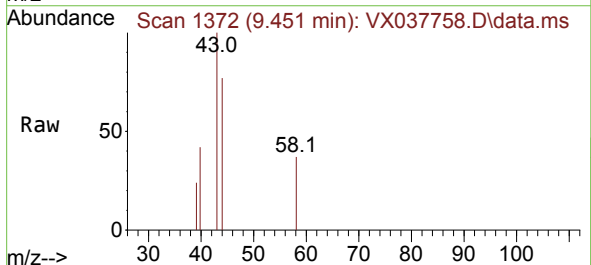
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-RW10A-GW-58-60

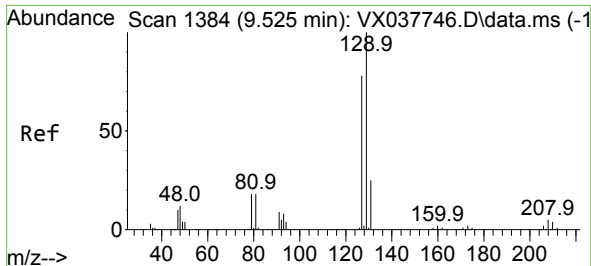
Tgt Ion: 92 Resp: 1354
Ion Ratio Lower Upper
92 100
91 151.6 134.2 201.2



#59
2-Hexanone
Concen: 0.290 ug/l
RT: 9.451 min Scan# 1372
Delta R.T. 0.018 min
Lab File: VX037758.D
Acq: 15 Sep 2023 16:28

Tgt Ion: 43 Resp: 781
Ion Ratio Lower Upper
43 100
58 32.1 26.2 78.5

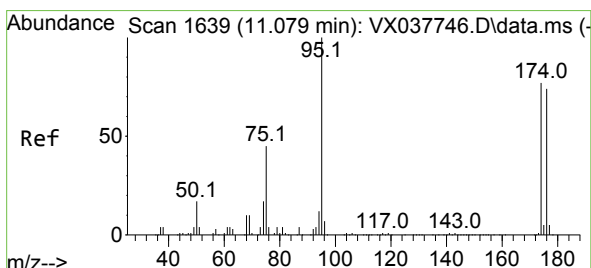
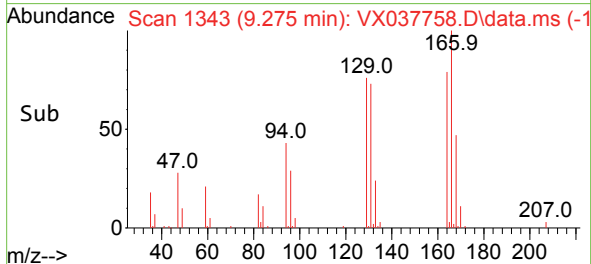
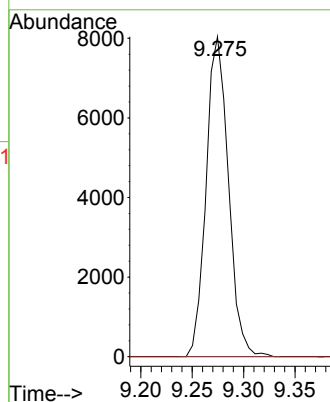
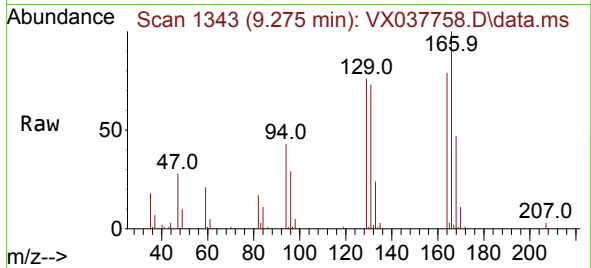




#60
Dibromochloromethane
Concen: 4.691 ug/l
RT: 9.275 min Scan# 11
Delta R.T. -0.244 min
Lab File: VX037758.D
Acq: 15 Sep 2023 16:28

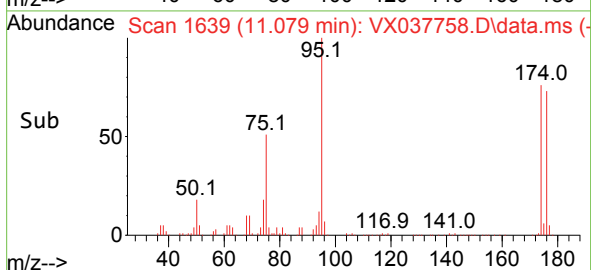
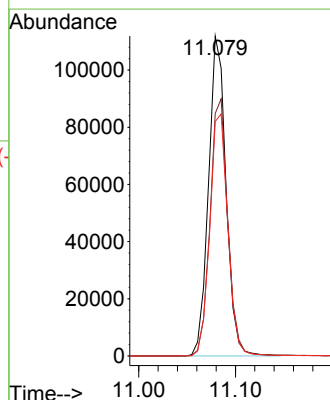
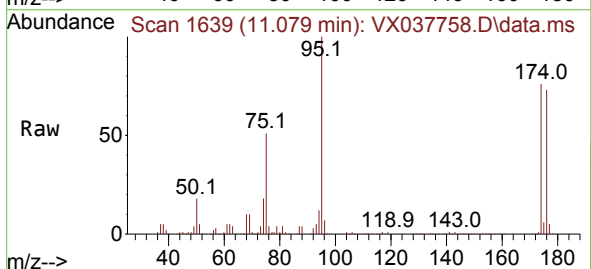
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-RW10A-GW-58-60

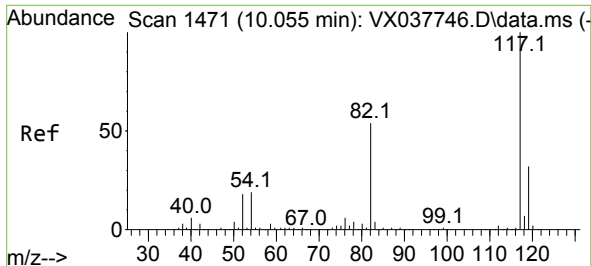
Tgt Ion:129 Resp: 12124
Ion Ratio Lower Upper
129 100
127 0.0 38.8 116.4#



#62
4-Bromofluorobenzene
Concen: 46.320 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX037758.D
Acq: 15 Sep 2023 16:28

Tgt Ion: 95 Resp: 140950
Ion Ratio Lower Upper
95 100
174 81.8 0.0 135.6
176 78.1 0.0 131.0

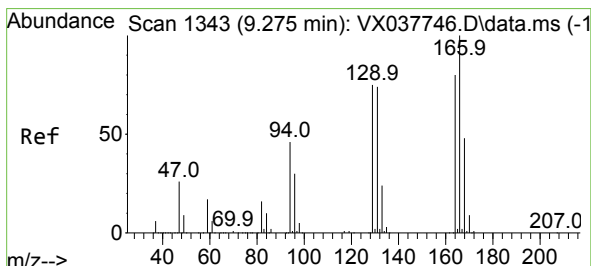
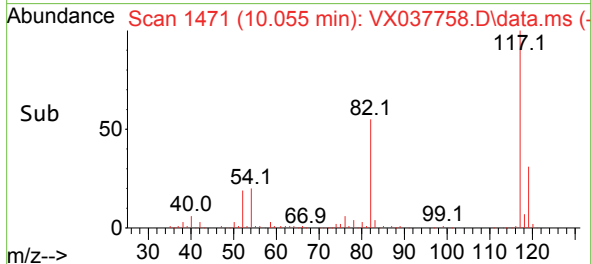
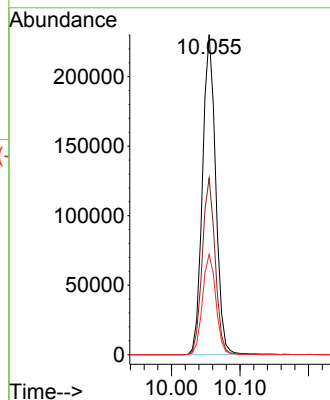
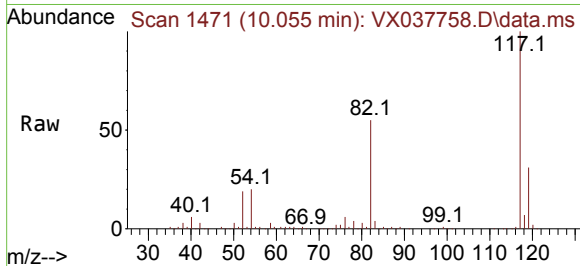




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX037758.D
Acq: 15 Sep 2023 16:28

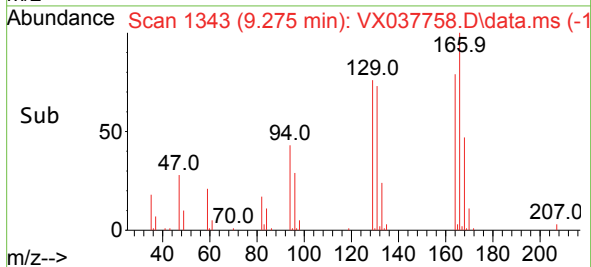
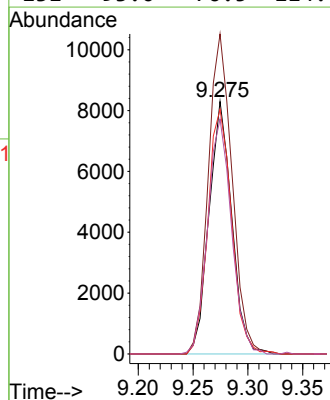
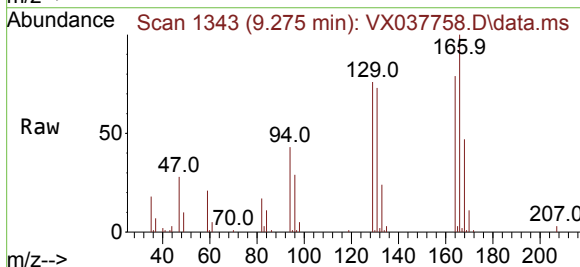
Instrument : MSVOA_X
ClientSampleId : BP-VPB-RW10A-GW-58-60

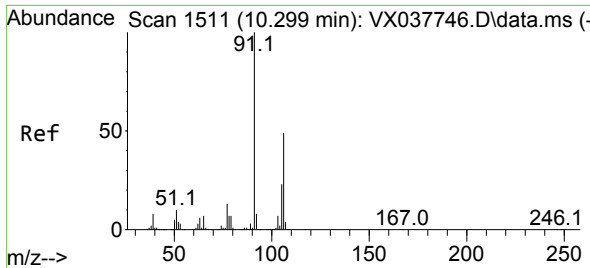
Tgt Ion:117 Resp: 309413
Ion Ratio Lower Upper
117 100
82 55.2 46.2 69.4
119 31.3 25.5 38.3



#64
Tetrachloroethene
Concen: 5.658 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VX037758.D
Acq: 15 Sep 2023 16:28

Tgt Ion:164 Resp: 11940
Ion Ratio Lower Upper
164 100
166 126.7 102.7 154.1
129 96.9 80.4 120.6
131 93.0 76.5 114.7

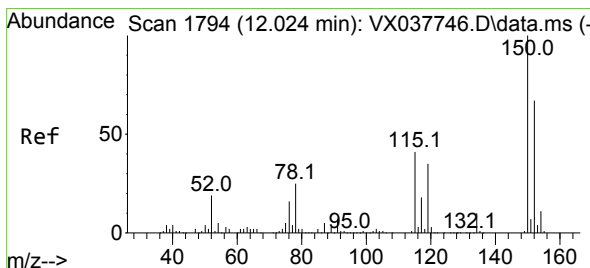
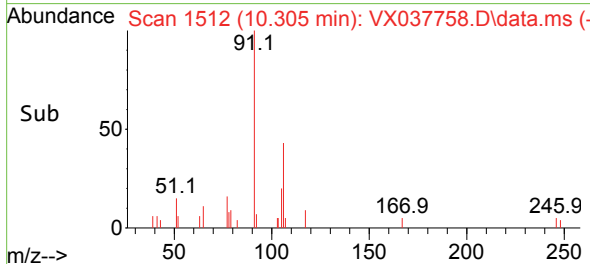
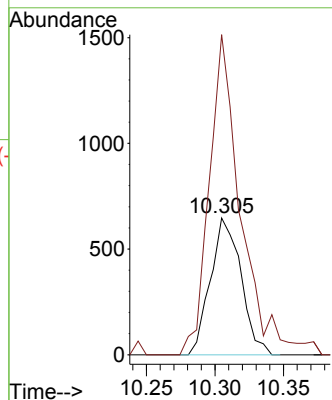
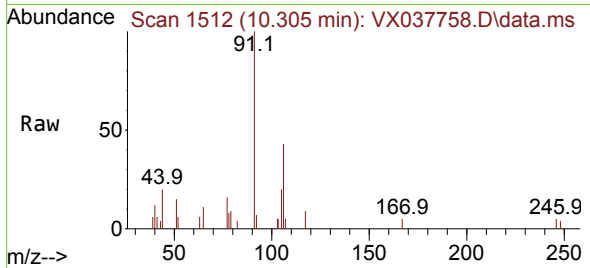




#68
m/p-Xylenes
Concen: 0.224 ug/l
RT: 10.305 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX037758.D
Acq: 15 Sep 2023 16:28

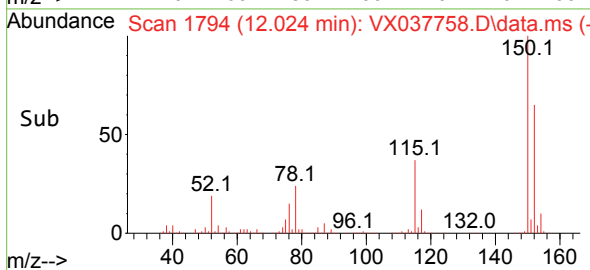
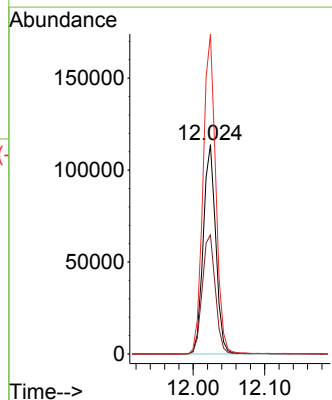
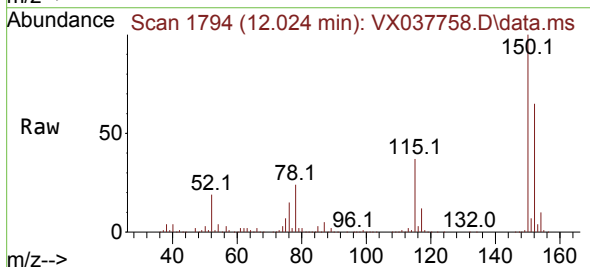
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-RW10A-GW-58-60

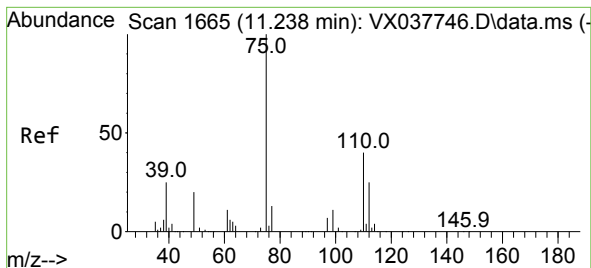
Tgt Ion:106 Resp: 1003
Ion Ratio Lower Upper
106 100
91 242.2 165.5 248.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX037758.D
Acq: 15 Sep 2023 16:28

Tgt Ion:152 Resp: 138643
Ion Ratio Lower Upper
152 100
115 59.5 43.3 129.9
150 155.1 0.0 345.0





#76

1,2,3-Trichloropropane

Concen: 22.589 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX037758.D

Acq: 15 Sep 2023 16:28

Instrument :

MSVOA_X

ClientSampleId :

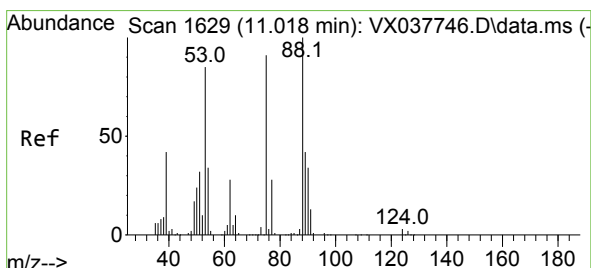
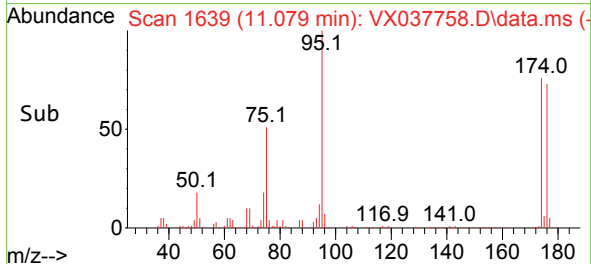
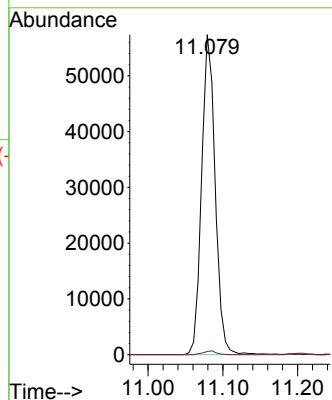
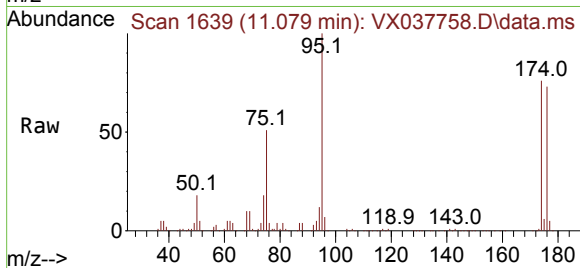
BP-VPB-RW10A-GW-58-60

Tgt Ion: 75 Resp: 72435

Ion Ratio Lower Upper

75 100

77 1.1 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 72.360 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX037758.D

Acq: 15 Sep 2023 16:28

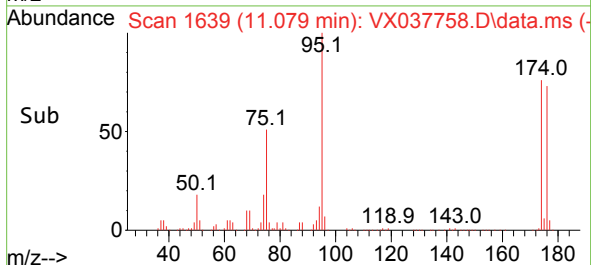
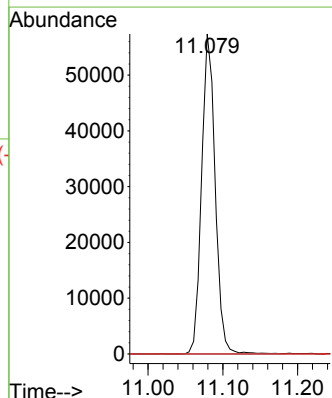
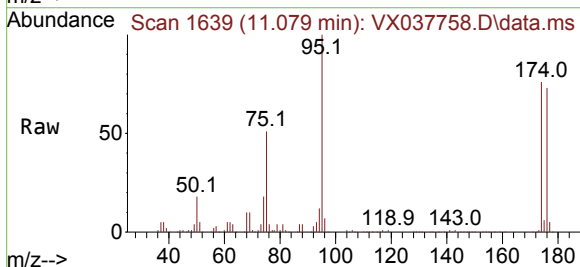
Tgt Ion: 75 Resp: 72435

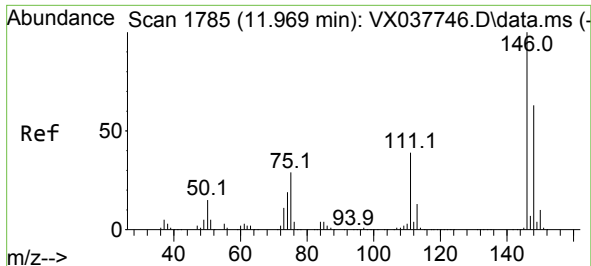
Ion Ratio Lower Upper

75 100

53 0.0 90.5 135.7#

89 0.0 36.9 55.3#





#87

1,3-Dichlorobenzene

Concen: 0.217 ug/l

RT: 11.975 min Scan# 1786

Delta R.T. 0.006 min

Lab File: VX037758.D

Acq: 15 Sep 2023 16:28

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-RW10A-GW-58-60

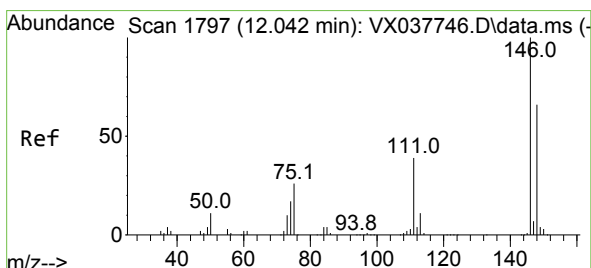
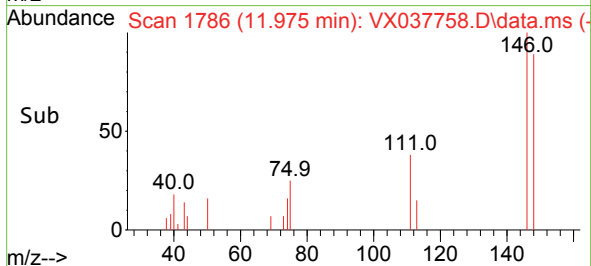
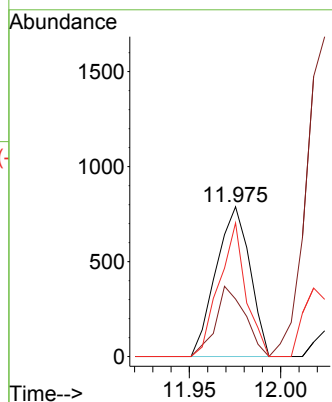
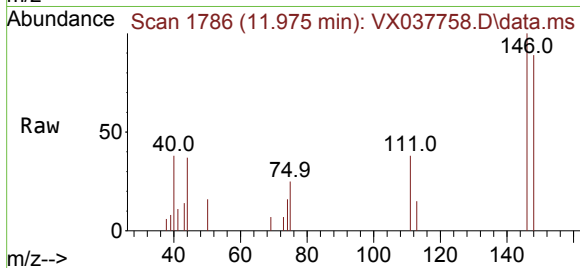
Tgt Ion:146 Resp: 1018

Ion Ratio Lower Upper

146 100

111 40.8 22.1 66.1

148 70.4 31.8 95.3



#88

1,4-Dichlorobenzene

Concen: 0.212 ug/l

RT: 11.975 min Scan# 1786

Delta R.T. -0.067 min

Lab File: VX037758.D

Acq: 15 Sep 2023 16:28

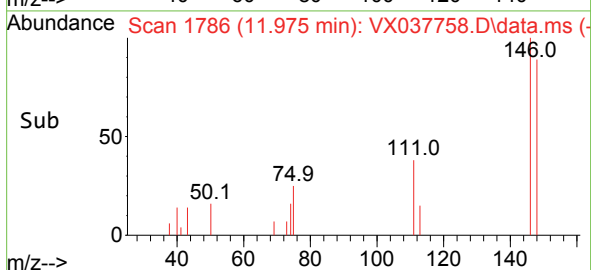
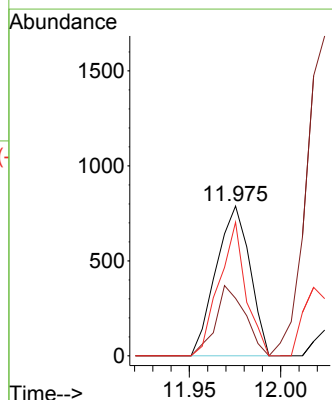
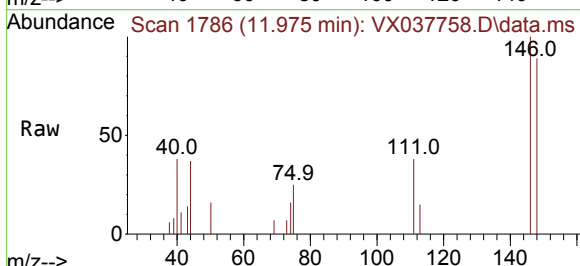
Tgt Ion:146 Resp: 1018

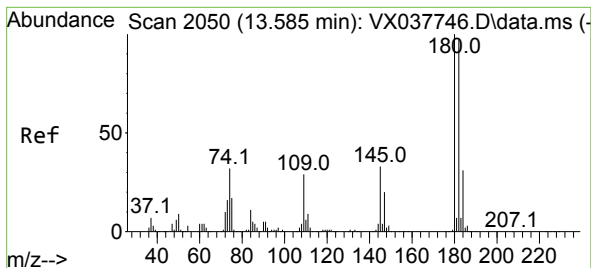
Ion Ratio Lower Upper

146 100

111 40.8 21.3 63.7

148 70.4 31.8 95.4





#93

1,2,4-Trichlorobenzene

Concen: 0.420 ug/l

RT: 13.591 min Scan# 2051

Delta R.T. -0.000 min

Lab File: VX037758.D

Acq: 15 Sep 2023 16:28

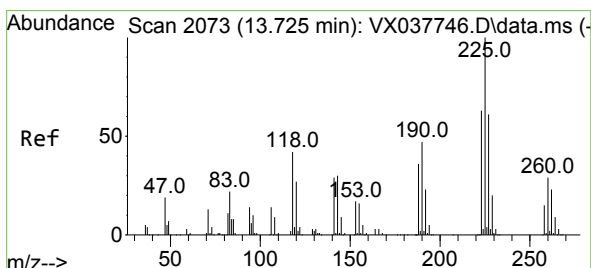
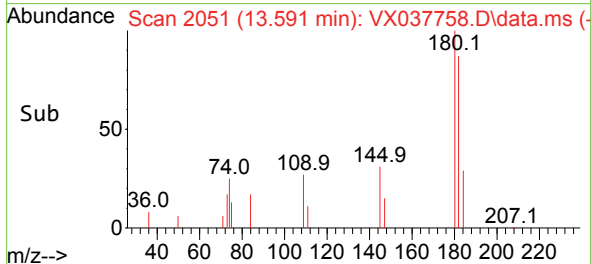
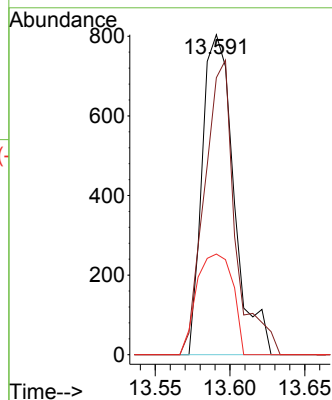
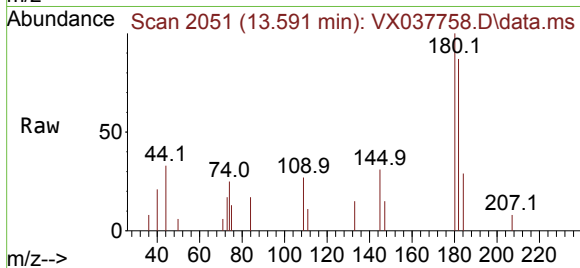
Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-RW10A-GW-58-60

Tgt Ion:180	Resp:	1186
Ion Ratio	Lower	Upper
180	100	
182	88.9	48.3 144.8
145	35.8	18.0 54.0



#94

Hexachlorobutadiene

Concen: 0.278 ug/l

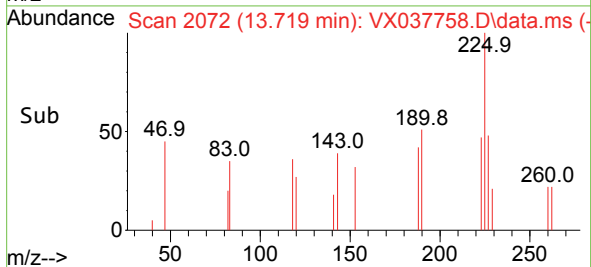
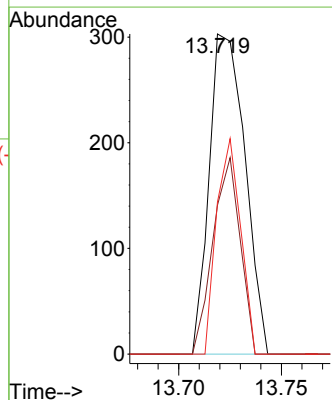
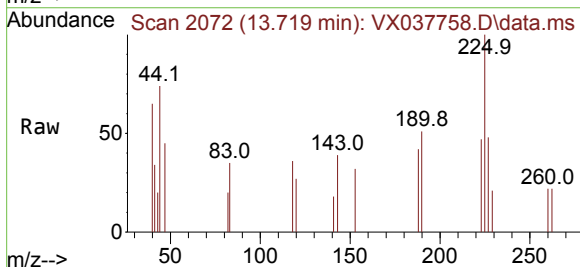
RT: 13.719 min Scan# 2072

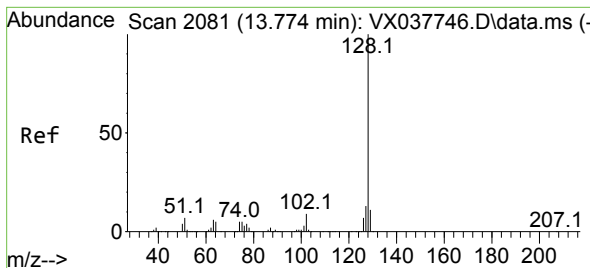
Delta R.T. -0.006 min

Lab File: VX037758.D

Acq: 15 Sep 2023 16:28

Tgt Ion:225	Resp:	367
Ion Ratio	Lower	Upper
225	100	
223	46.6	31.1 93.2
227	45.0	32.5 97.5





#95

Naphthalene

Concen: 0.322 ug/l

RT: 13.780 min Scan# 2081

Delta R.T. -0.000 min

Lab File: VX037758.D

Acq: 15 Sep 2023 16:28

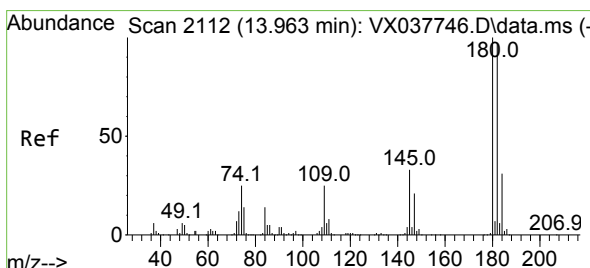
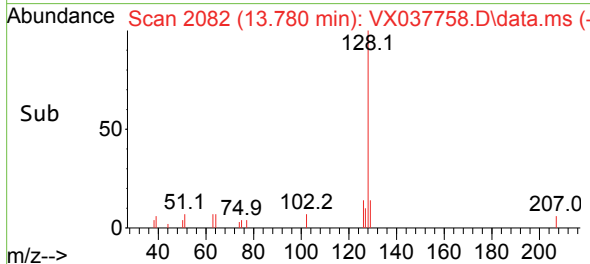
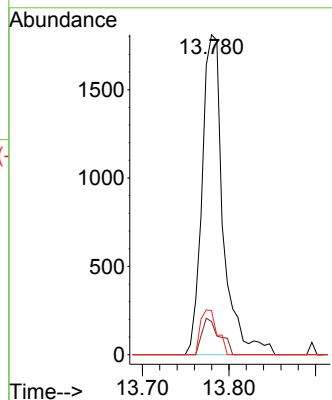
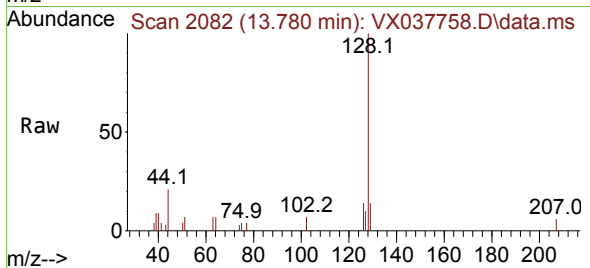
Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-RW10A-GW-58-60

Tgt Ion:128	Resp:	3069
Ion Ratio	Lower	Upper
128	100	
127	9.5	10.3 15.5#
129	11.0	8.8 13.2



#96

1,2,3-Trichlorobenzene

Concen: 0.263 ug/l

RT: 13.963 min Scan# 2112

Delta R.T. -0.000 min

Lab File: VX037758.D

Acq: 15 Sep 2023 16:28

Tgt Ion:180	Resp:	763
Ion Ratio	Lower	Upper
180	100	
182	95.2	46.9 140.6
145	34.6	17.8 53.5

