

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072519\
 Data File : VX011070.D
 Acq On : 25 Jul 2019 12:09
 Operator : JC/SP
 Sample : K3973-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB203-GW-148-150

Quant Time: Jul 26 01:24:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 24 05:39:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	209912	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	336662	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	309690	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	145240	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	114510	51.28	ug/l	0.00
Spiked Amount			Recovery	=	102.56%	
35) Dibromofluoromethane	5.50	113	105205	49.23	ug/l	0.00
Spiked Amount			Recovery	=	98.46%	
50) Toluene-d8	8.71	98	400634	49.99	ug/l	0.00
Spiked Amount			Recovery	=	99.98%	
62) 4-Bromofluorobenzene	11.13	95	143407	48.68	ug/l	0.00
Spiked Amount			Recovery	=	97.36%	

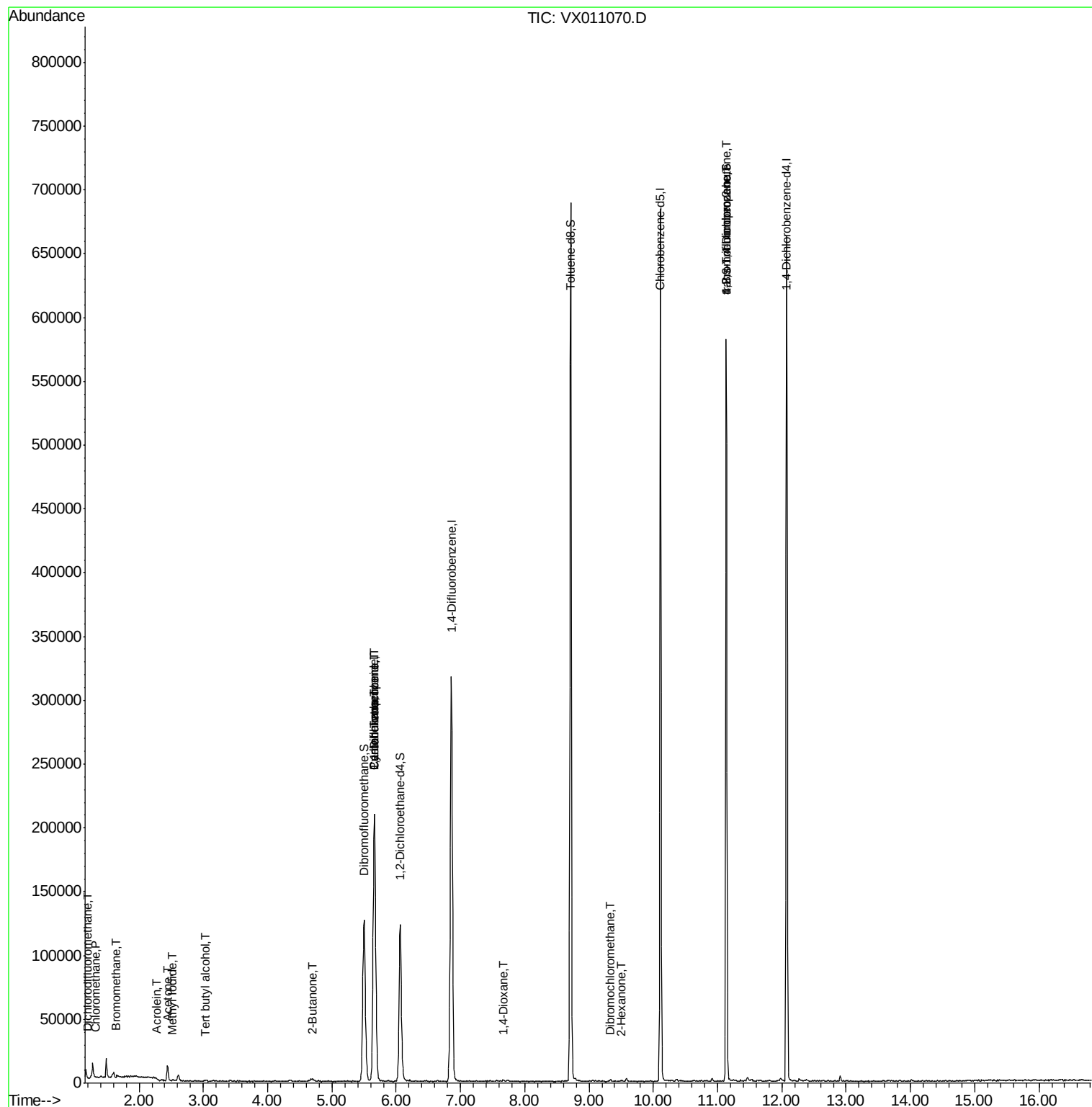
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	88	0.585	ug/l	90
3) Chloromethane	1.32	50	747	0.387	ug/l	94
5) Bromomethane	1.65	94	797	0.718	ug/l #	58
10) Methyl Iodide	2.51	142	776	0.311	ug/l #	83
11) Tert butyl alcohol	3.04	59	596	1.146	ug/l #	86
13) Acrolein	2.28	56	169	0.562	ug/l #	58
16) Acetone	2.44	43	11886	11.785	ug/l	95
25) 2-Butanone	4.70	43	3685	2.545	ug/l	99
31) Cyclohexane	5.65	56	3992	1.317	ug/l #	37
36) 1,1-Dichloropropene	5.67	75	14037	5.076	ug/l #	46
38) Carbon Tetrachloride	5.67	117	19930	6.916	ug/l #	17
49) 1,4-Dioxane	7.67	88	22	0.347	ug/l #	1
59) 2-Hexanone	9.51	43	539	0.230	ug/l	81
60) Dibromochloromethane	9.34	129	124	2.572	ug/l #	11
76) 1,2,3-Trichloropropane	11.13	75	72090	27.505	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	72090	68.120	ug/l #	11

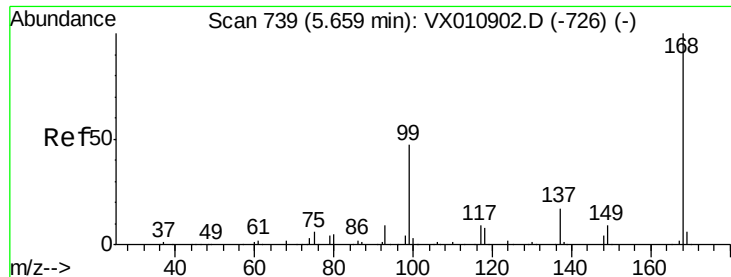
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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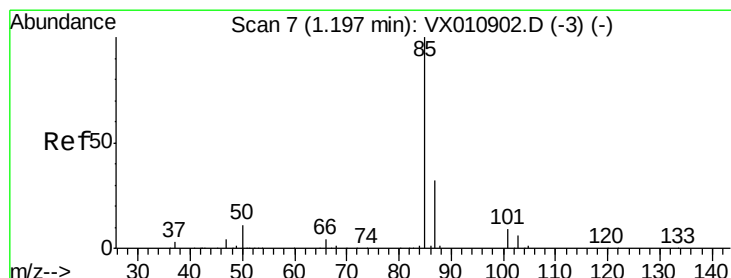
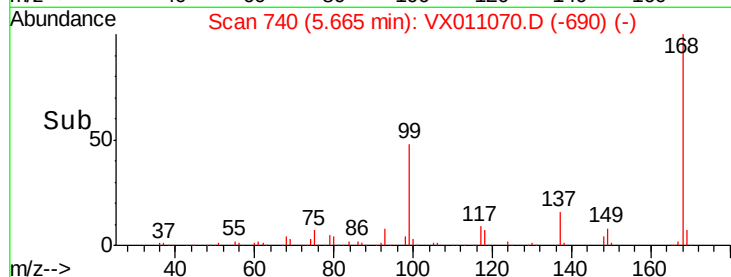
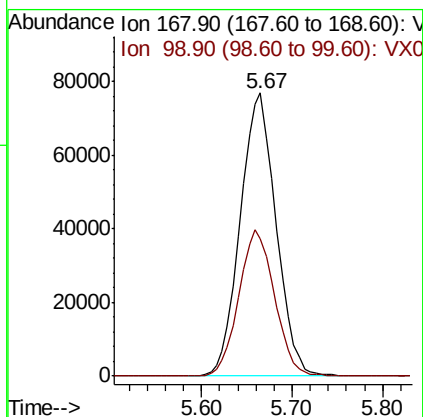
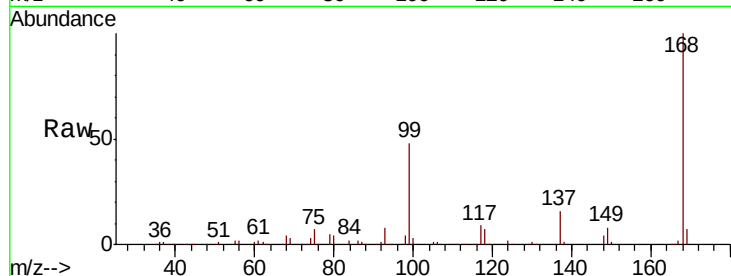




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.01 min
Lab File: VX011070.D
Acq: 25 Jul 2019 12:09

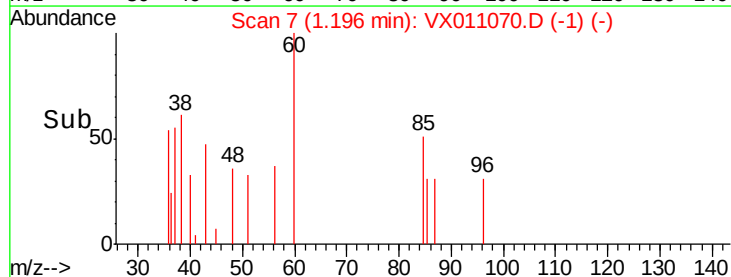
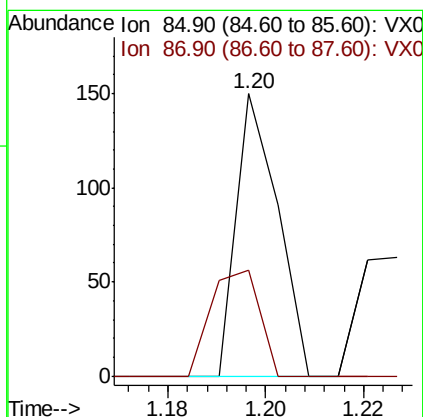
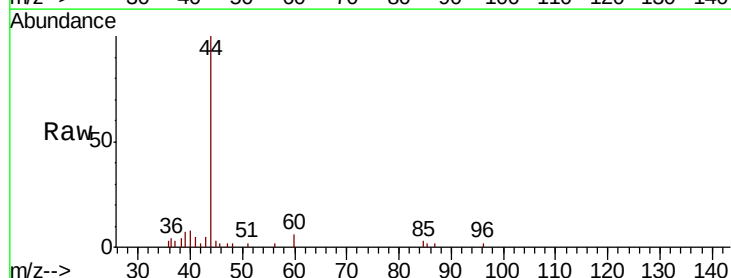
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB203-GW-148-150

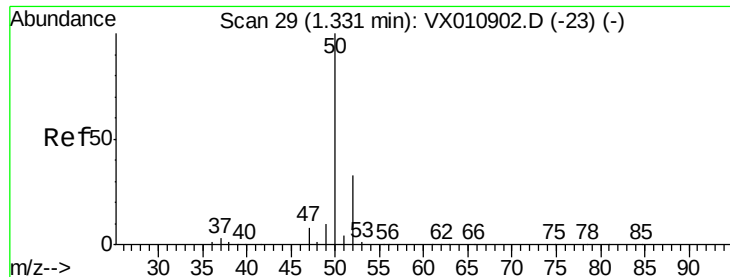
Tot Ion:168 Resp: 209912
Ion Ratio Lower Upper
168 100
99 48.4 37.6 56.4



#2
Dichlorodifluoromethane
Concen: 0.585 ug/l
RT: 1.20 min Scan# 7
Delta R.T. 0.00 min
Lab File: VX011070.D
Acq: 25 Jul 2019 12:09

Tgt Ion: 85 Resp: 88
Ion Ratio Lower Upper
85 100
87 37.3 15.9 47.7





#3

Chloromethane

Concen: 0.387 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.01 min

Lab File: VX011070.D

Acq: 25 Jul 2019 12:09

Instrument :

MSVOA_X

ClientSampleId :

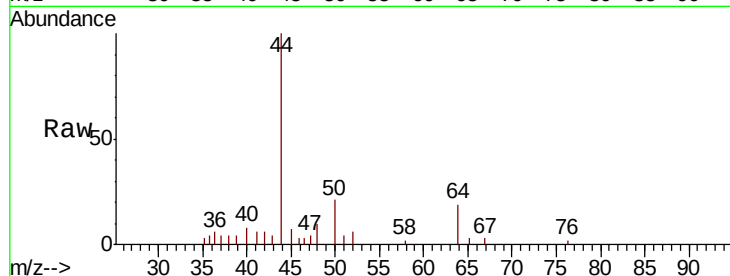
BP-VPB203-GW-148-150

Tot Ion: 50 Resp: 747

Ion Ratio Lower Upper

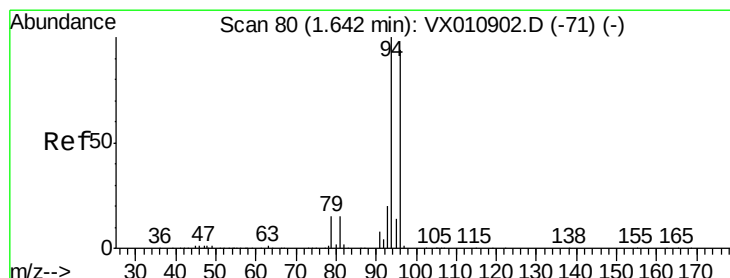
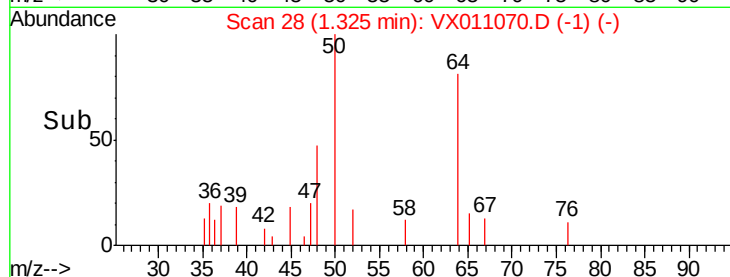
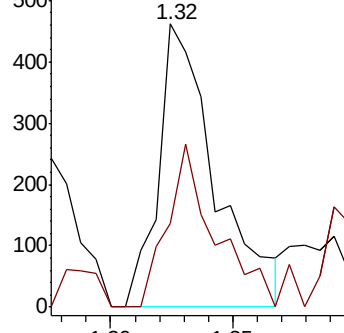
50 100

52 29.7 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: 0.718 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX011070.D

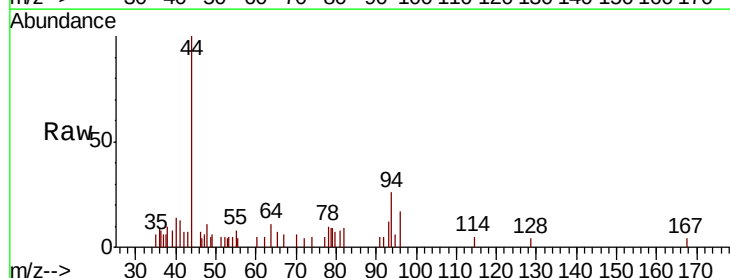
Acq: 25 Jul 2019 12:09

Tgt Ion: 94 Resp: 797

Ion Ratio Lower Upper

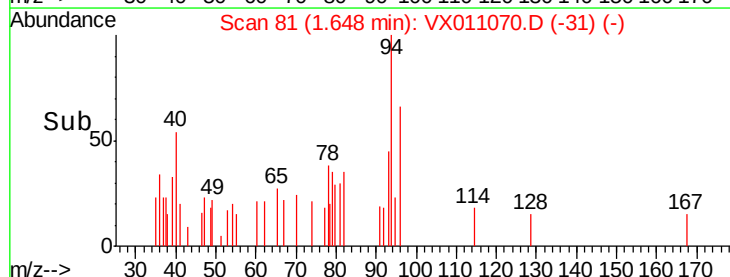
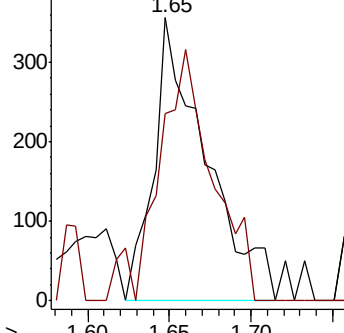
94 100

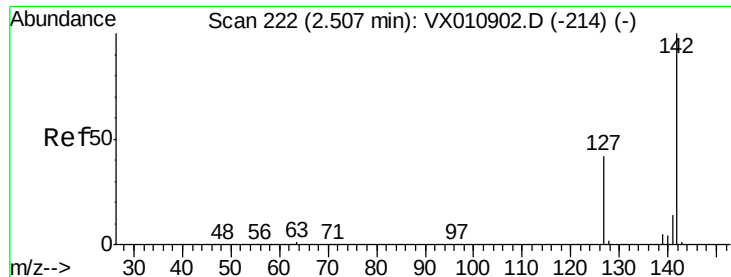
96 53.8 75.6 113.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

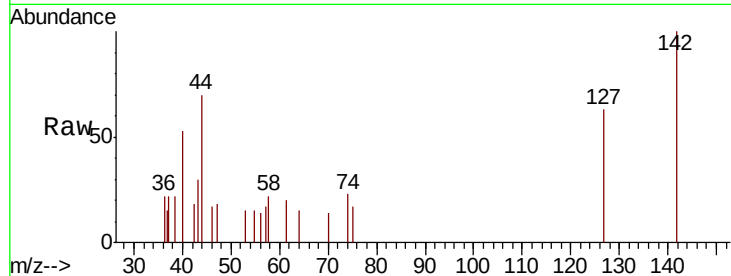




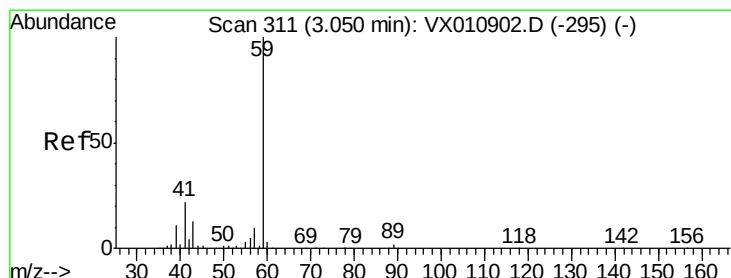
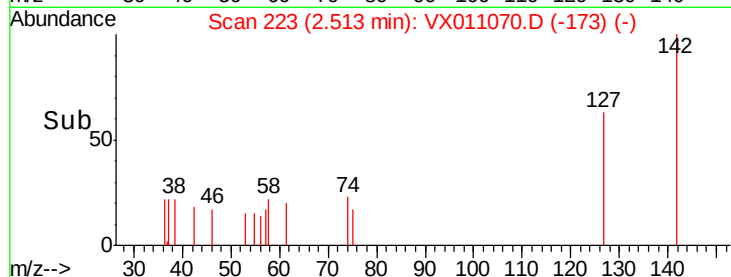
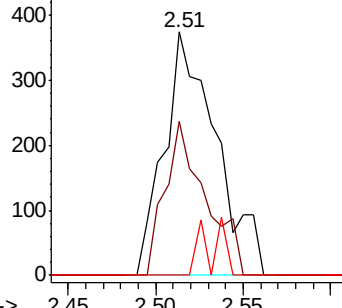
#10
Methvl Iodide
Concen: 0.311 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX011070.D
Acq: 25 Jul 2019 12:09

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB203-GW-148-150

Tot Ion:142 Resp: 776
Ion Ratio Lower Upper
142 100
127 49.4 34.2 51.4
141 0.0 11.7 17.5#

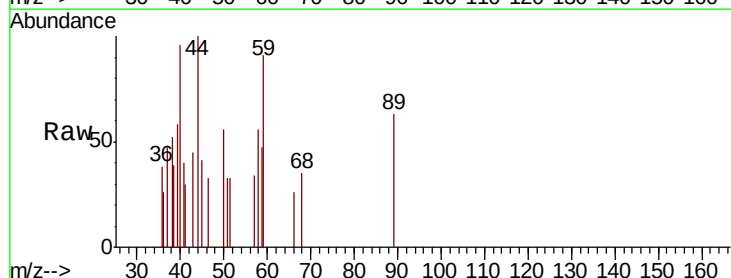


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

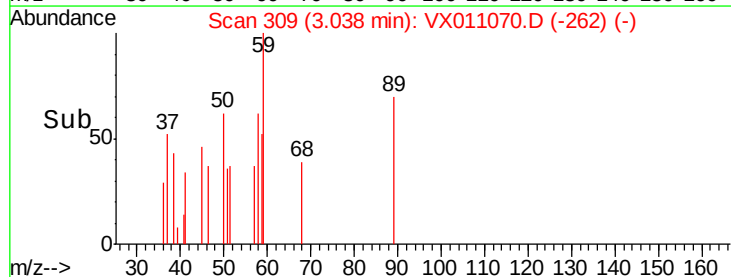
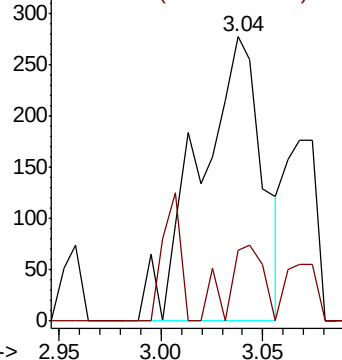


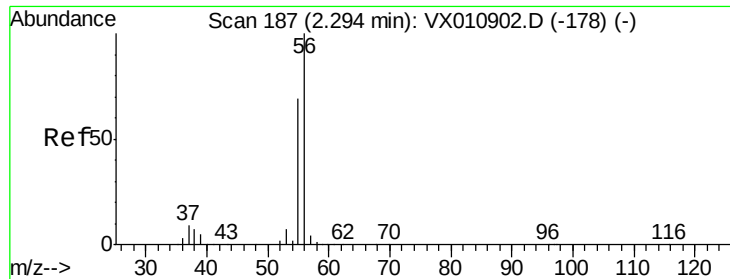
#11
Tert butyl alcohol
Concen: 1.146 ug/l
RT: 3.04 min Scan# 309
Delta R.T. -0.01 min
Lab File: VX011070.D
Acq: 25 Jul 2019 12:09

Tgt Ion: 59 Resp: 596
Ion Ratio Lower Upper
59 100
57 15.1 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.562 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX011070.D

Acq: 25 Jul 2019 12:09

Instrument :

MSVOA_X

ClientSampleId :

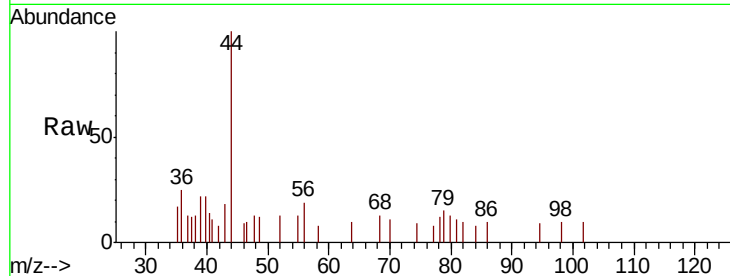
BP-VPB203-GW-148-150

Tot Ion: 56 Resp: 169

Ion Ratio Lower Upper

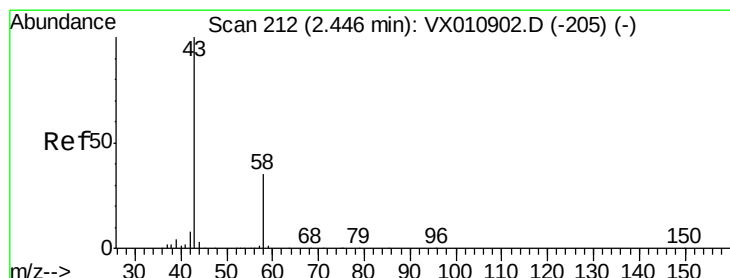
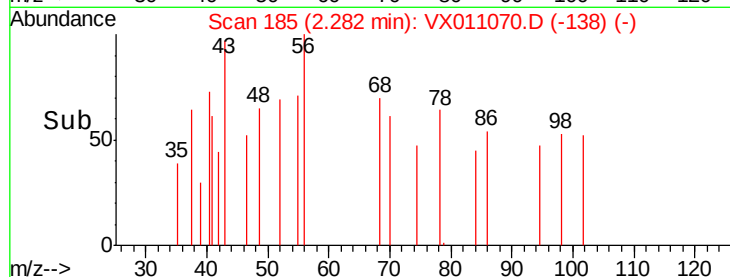
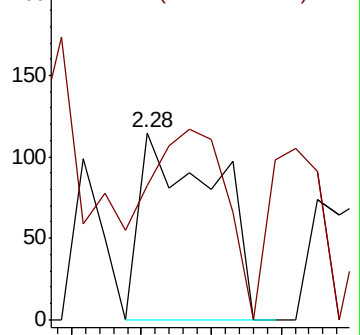
56 100

55 104.7 55.9 83.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 11.785 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX011070.D

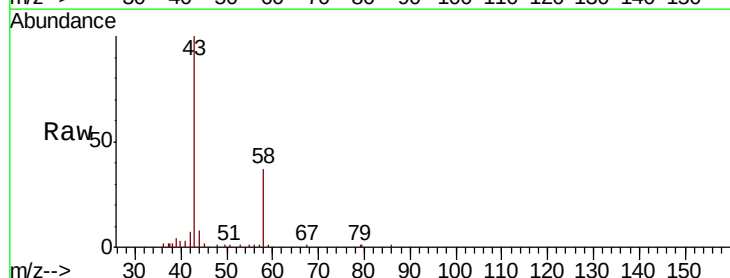
Acq: 25 Jul 2019 12:09

Tgt Ion: 43 Resp: 11886

Ion Ratio Lower Upper

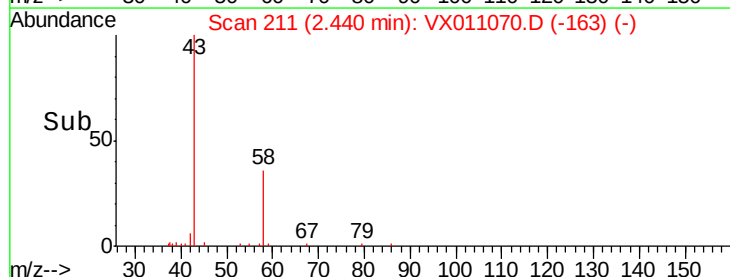
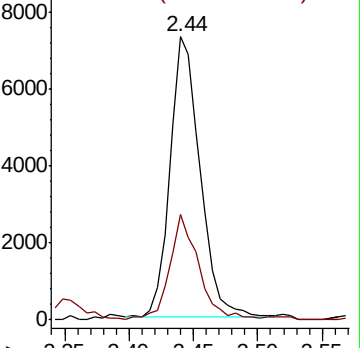
43 100

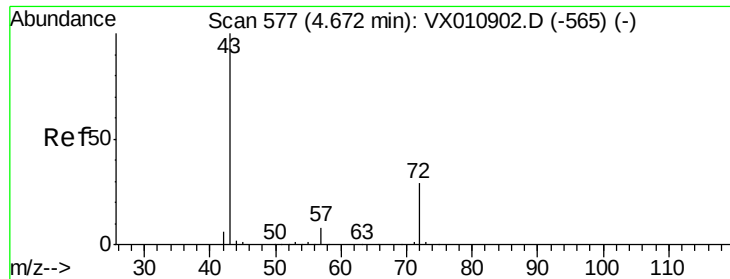
58 37.5 27.7 41.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#25

2-Butanone

Concen: 2.545 ug/l

RT: 4.70 min Scan# 581

Delta R.T. 0.02 min

Lab File: VX011070.D

Acq: 25 Jul 2019 12:09

Instrument :

MSVOA_X

ClientSampleId :

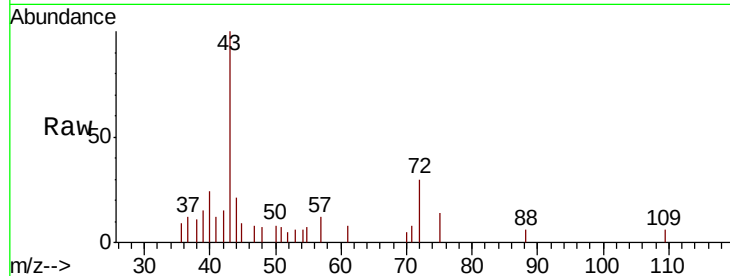
BP-VPB203-GW-148-150

Tot Ion: 43 Resp: 3685

Ion Ratio Lower Upper

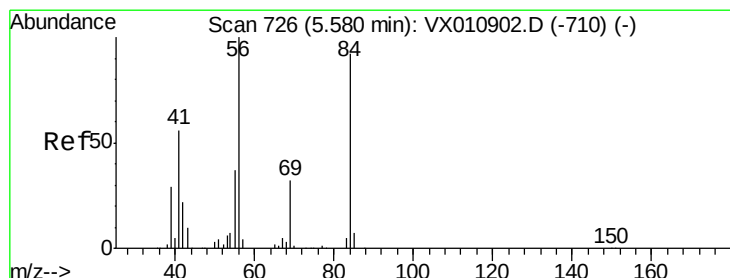
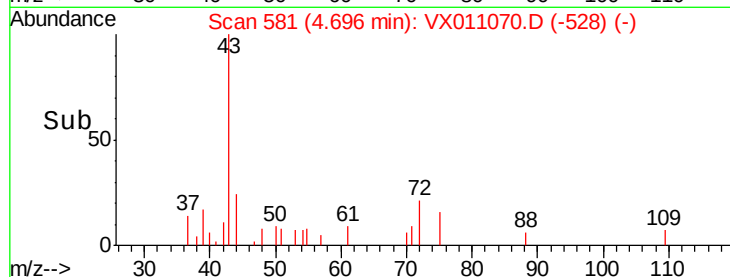
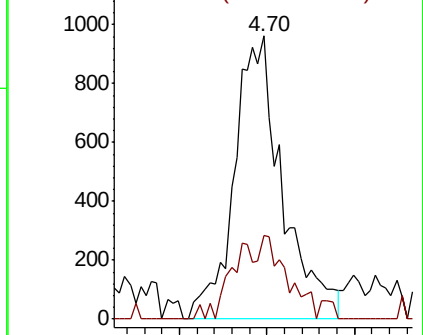
43 100

72 29.5 23.0 34.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#31

Cyclohexane

Concen: 1.317 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.07 min

Lab File: VX011070.D

Acq: 25 Jul 2019 12:09

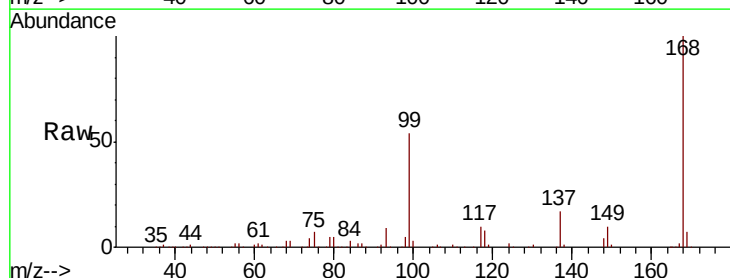
Tgt Ion: 56 Resp: 3992

Ion Ratio Lower Upper

56 100

69 131.6 25.8 38.8#

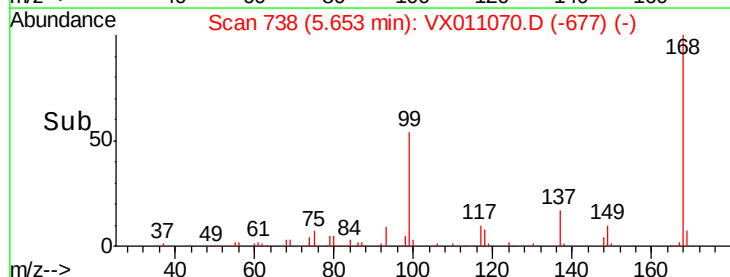
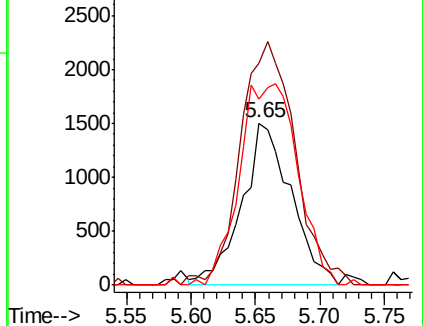
84 114.6 73.8 110.6#

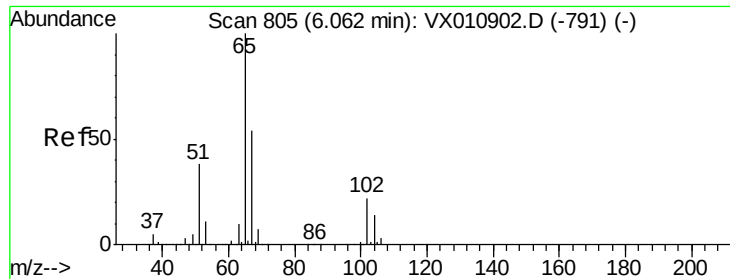


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

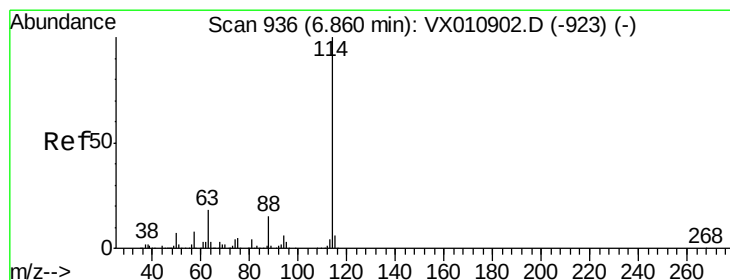
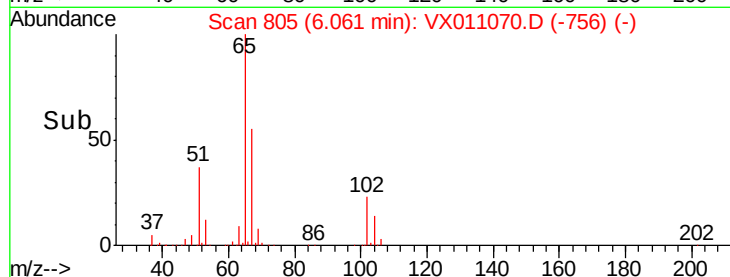
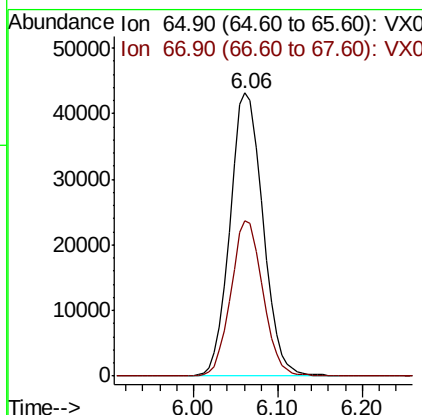
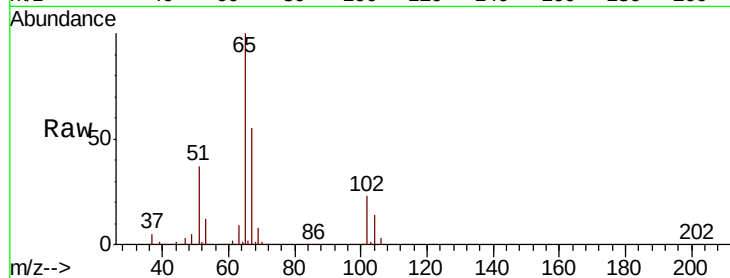




#33
 1,2-Dichloroethane-d4
 Concen: 51.277 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX011070.D
 Acq: 25 Jul 2019 12:09

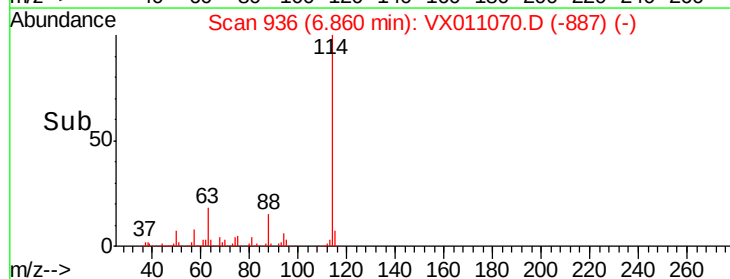
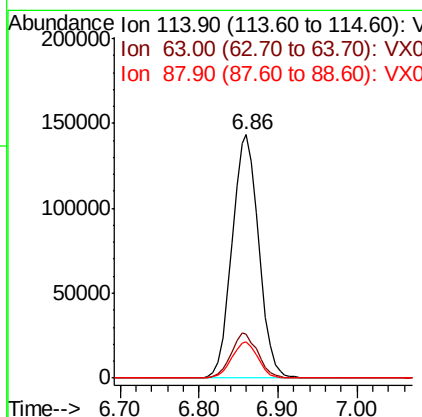
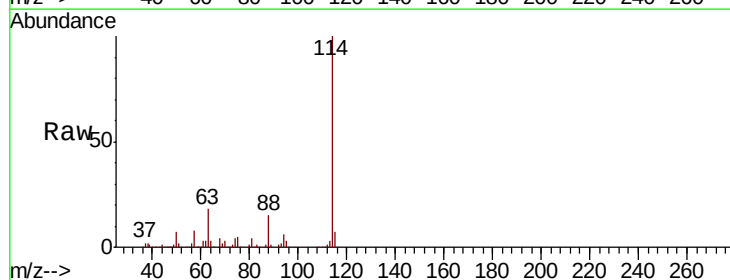
Instrument :
 MSVOA_X
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 BP-VPB203-GW-148-150

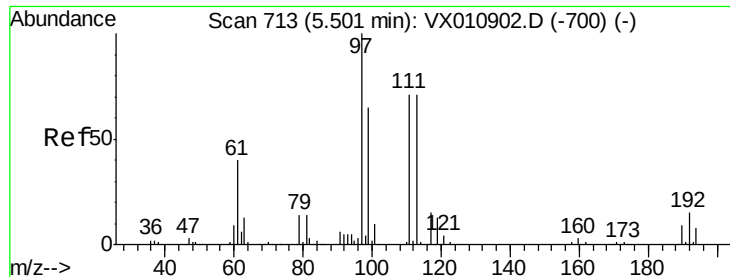
Tot Ion: 65 Resp: 114510
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX011070.D
 Acq: 25 Jul 2019 12:09

Tgt Ion: 114 Resp: 336662
 Ion Ratio Lower Upper
 114 100
 63 18.0 0.0 35.6
 88 14.9 0.0 29.8





#35

Dibromofluoromethane

Concen: 49.233 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX011070.D

Acq: 25 Jul 2019 12:09

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB203-GW-148-150

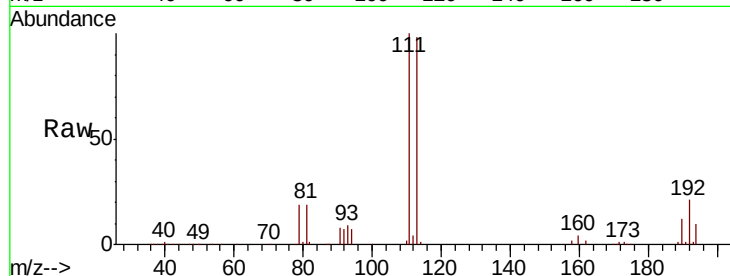
Tot Ion:113 Resp: 105205

Ion Ratio Lower Upper

113 100

111 102.5 82.3 123.5

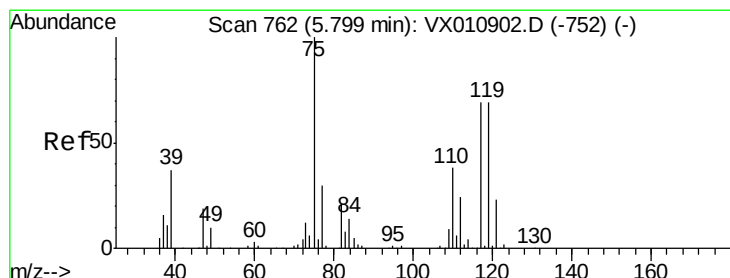
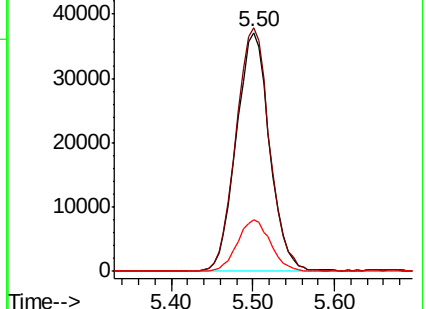
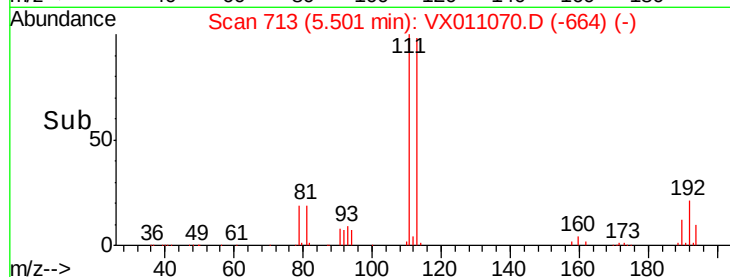
192 21.6 17.4 26.2



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 5.076 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX011070.D

Acq: 25 Jul 2019 12:09

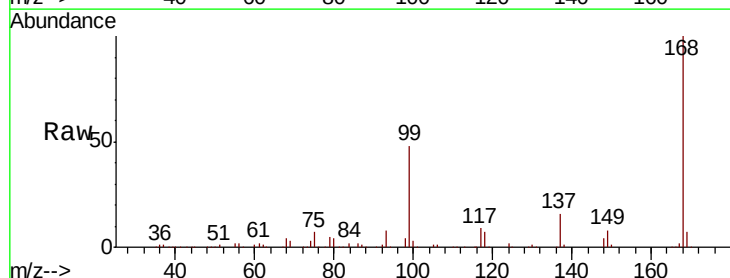
Tgt Ion: 75 Resp: 14037

Ion Ratio Lower Upper

75 100

110 7.2 19.9 59.7#

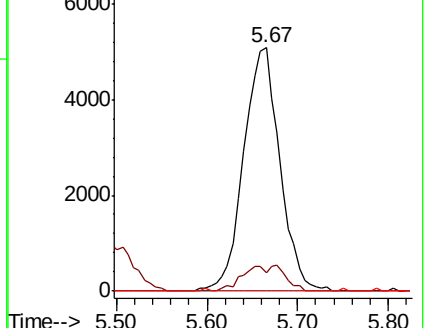
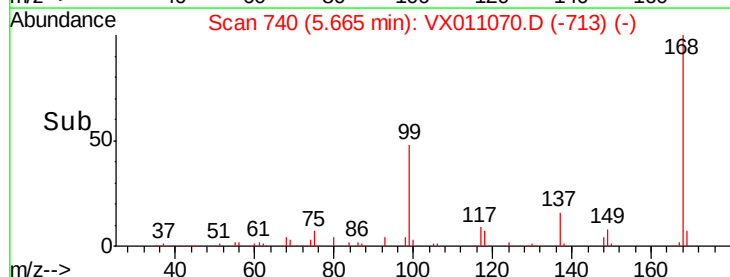
77 0.0 25.0 37.4#

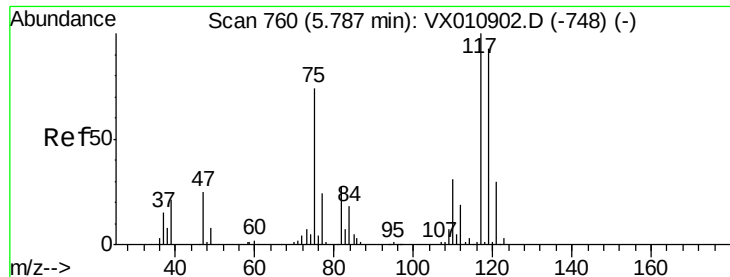


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.916 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX011070.D

Acq: 25 Jul 2019 12:09

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB203-GW-148-150

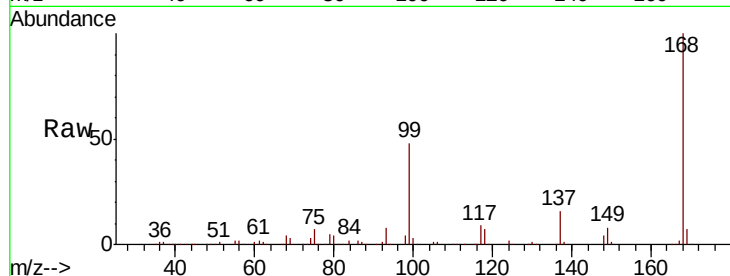
Tot Ion:117 Resp: 19930

Ion Ratio Lower Upper

117 100

119 4.4 74.2 111.2#

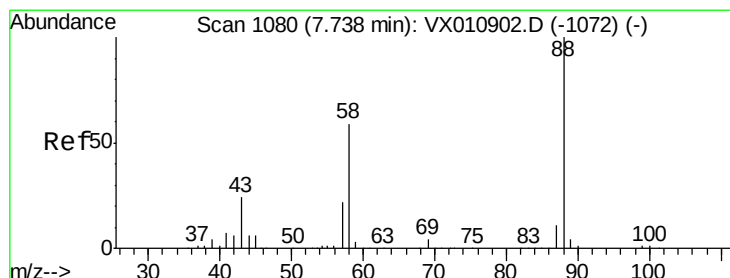
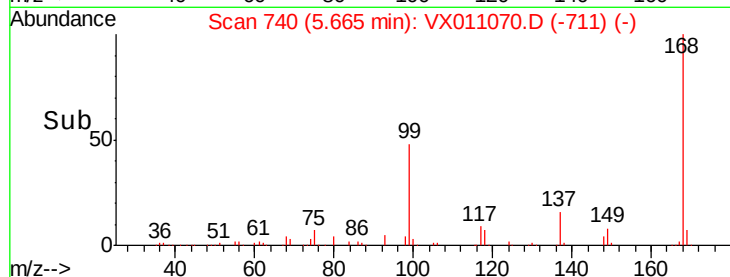
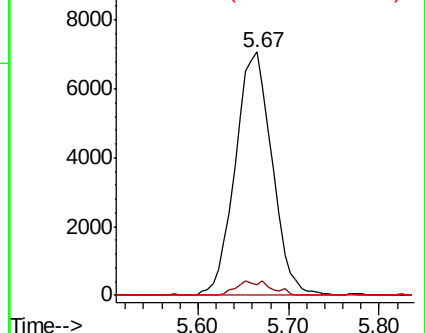
121 0.0 24.2 36.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 0.347 ug/l

RT: 7.67 min Scan# 1069

Delta R.T. -0.07 min

Lab File: VX011070.D

Acq: 25 Jul 2019 12:09

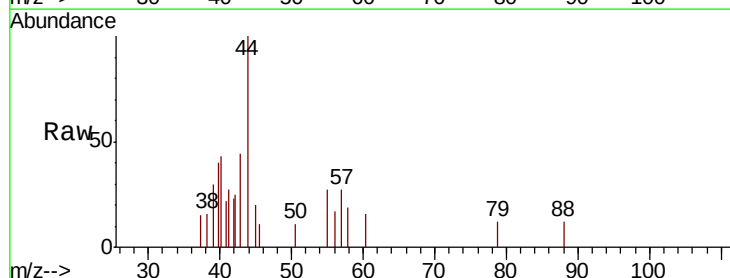
Tgt Ion: 88 Resp: 22

Ion Ratio Lower Upper

88 100

43 2140.9 22.9 34.3#

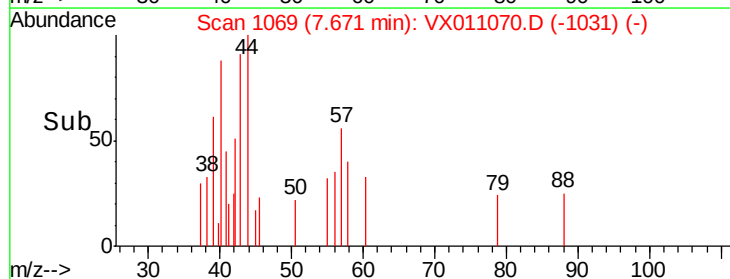
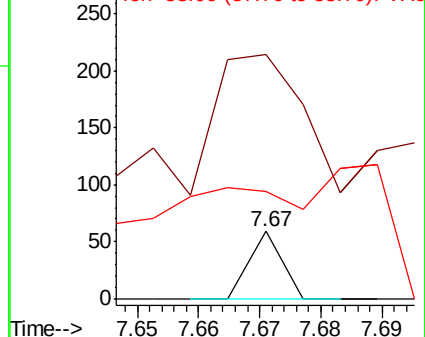
58 913.6 49.8 74.8#

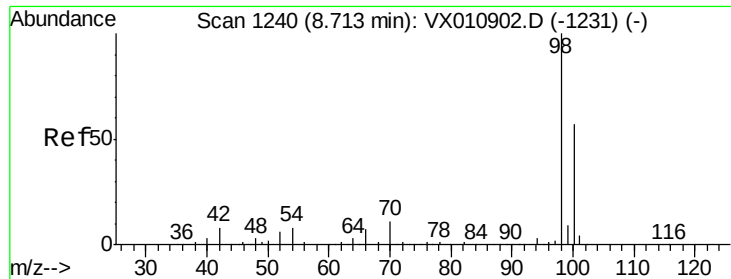


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

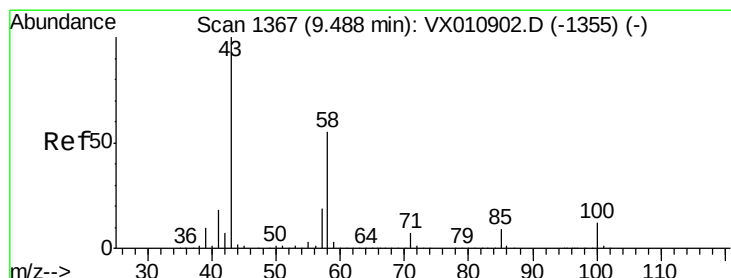
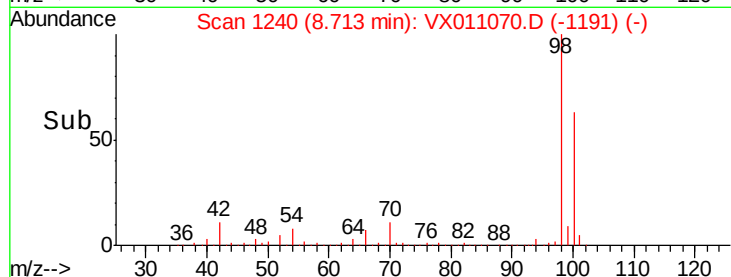
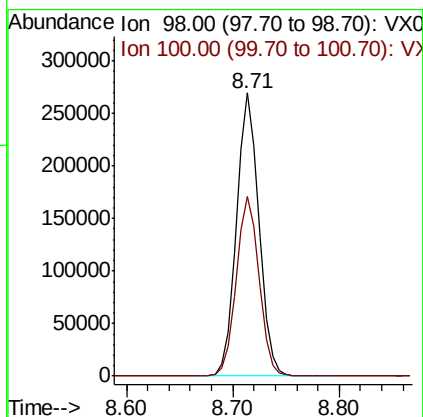
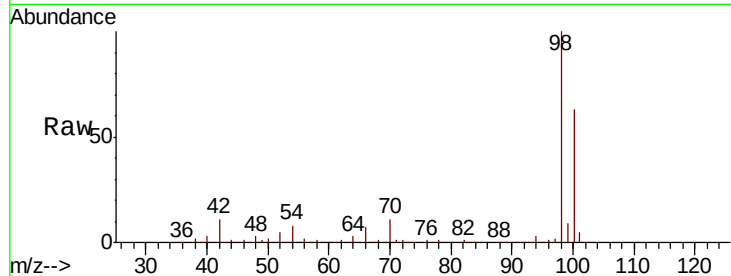




#50
Toluene-d8
Concen: 49.988 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX011070.D
Acq: 25 Jul 2019 12:09

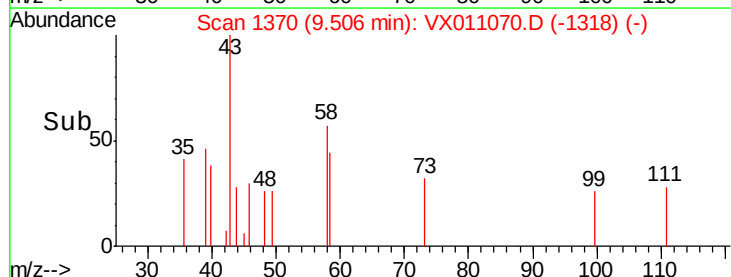
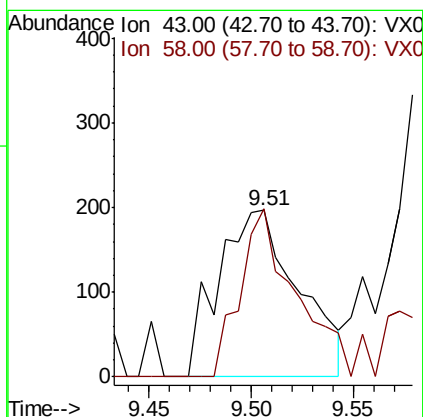
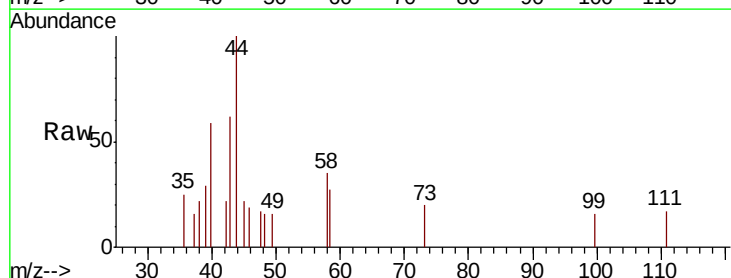
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB203-GW-148-150

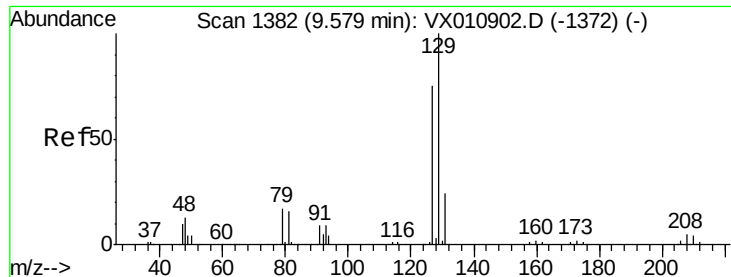
Tot Ion: 98 Resp: 400634
Ion Ratio Lower Upper
98 100
100 64.3 50.6 75.8



#59
2-Hexanone
Concen: 0.230 ug/l
RT: 9.51 min Scan# 1370
Delta R.T. 0.02 min
Lab File: VX011070.D
Acq: 25 Jul 2019 12:09

Tgt Ion: 43 Resp: 539
Ion Ratio Lower Upper
43 100
58 69.4 28.0 83.9





#60

Dibromochloromethane

Concen: 2.572 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX011070.D

Acq: 25 Jul 2019 12:09

Instrument :

MSVOA_X

ClientSampleId :

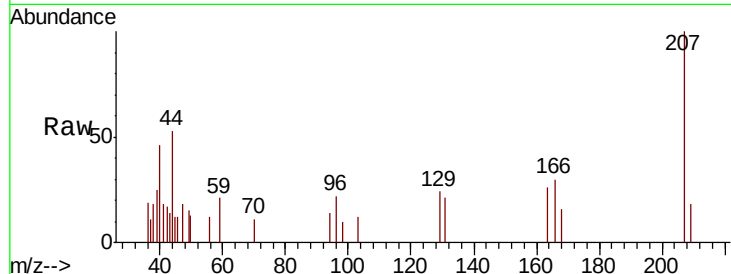
BP-VPB203-GW-148-150

Tot Ion:129 Resp: 124

Ion Ratio Lower Upper

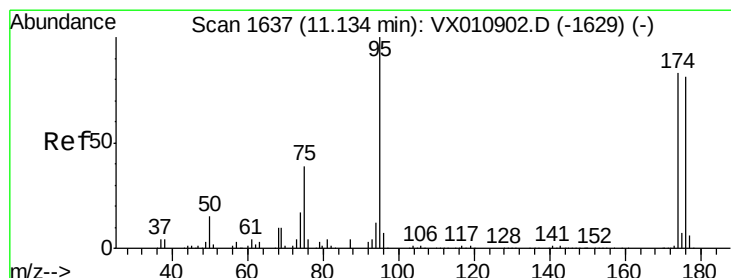
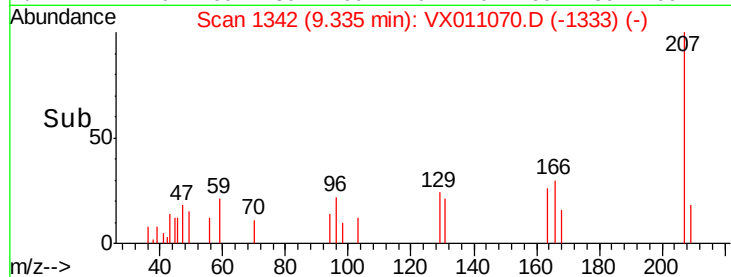
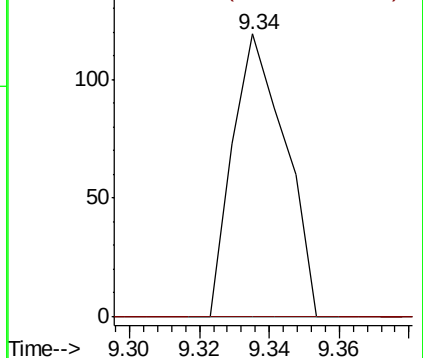
129 100

127 0.0 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 48.680 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX011070.D

Acq: 25 Jul 2019 12:09

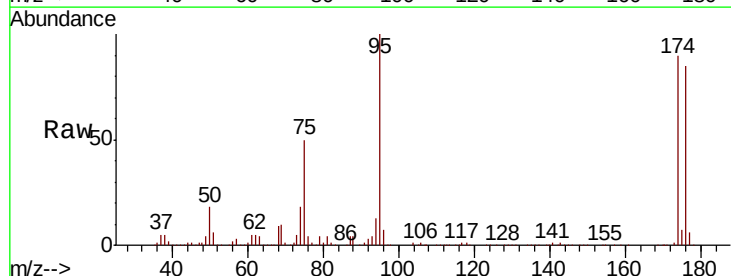
Tgt Ion: 95 Resp: 143407

Ion Ratio Lower Upper

95 100

174 91.6 0.0 180.6

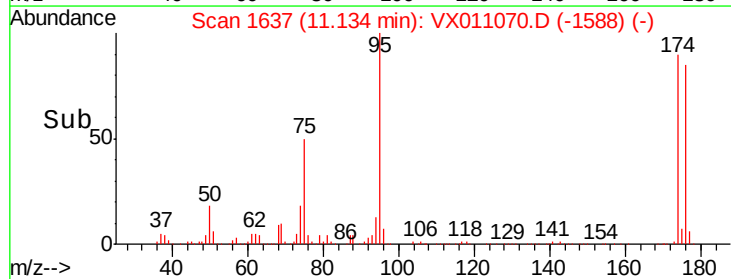
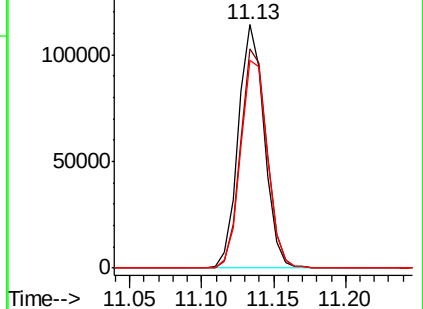
176 87.8 0.0 173.8

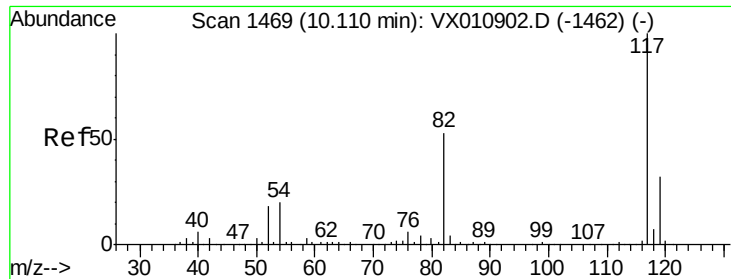


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

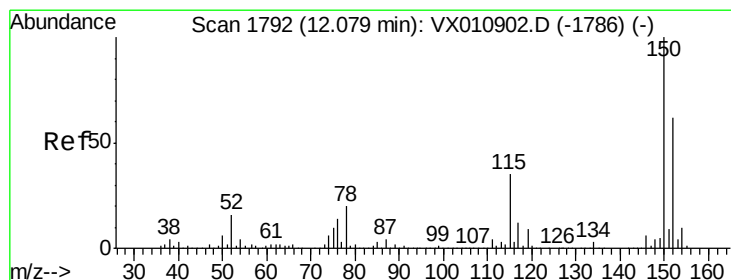
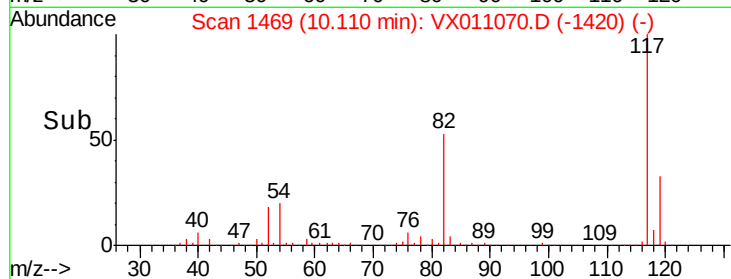
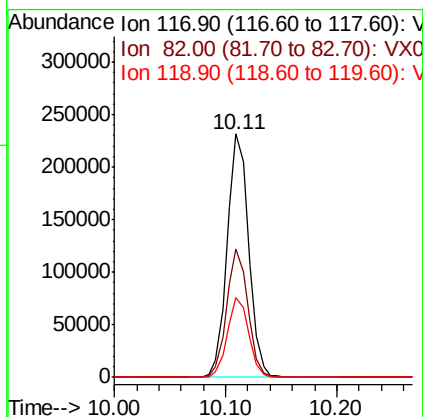
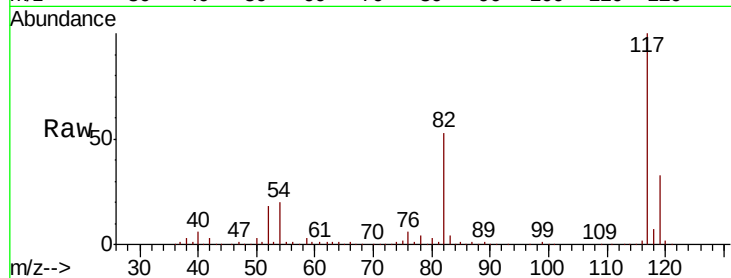




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011070.D
Acq: 25 Jul 2019 12:09

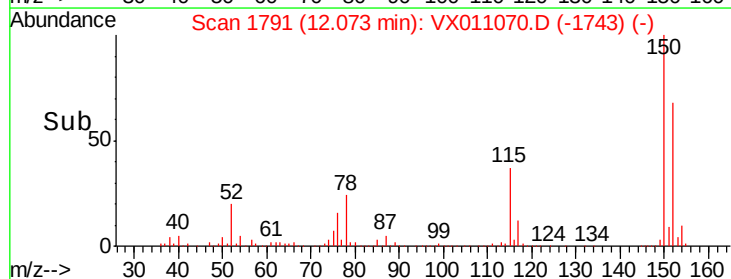
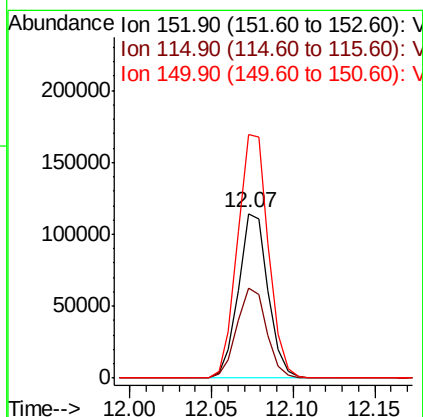
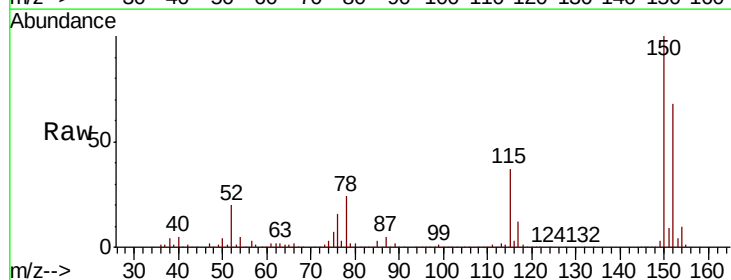
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB203-GW-148-150

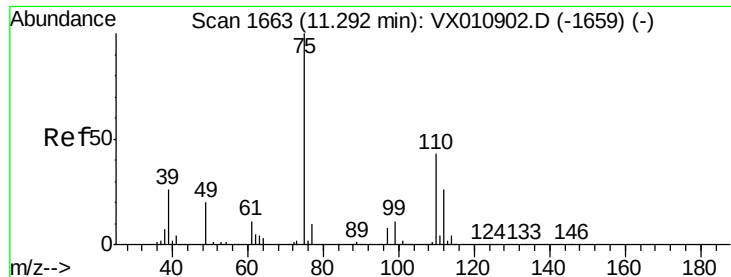
Tot Ion	Ratio	Lower	Upper
117	100		
82	52.7	42.6	63.8
119	33.0	25.9	38.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1791
Delta R.T. -0.01 min
Lab File: VX011070.D
Acq: 25 Jul 2019 12:09

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.9	39.7	119.1
150	153.5	0.0	345.6





#76

1,2,3-Trichloropropane

Concen: 27.505 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011070.D

Acq: 25 Jul 2019 12:09

Instrument :

MSVOA_X

ClientSampleId :

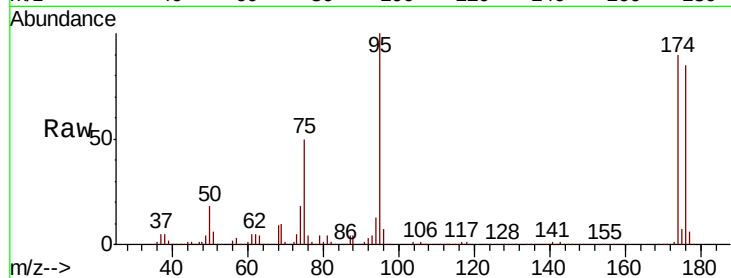
BP-VPB203-GW-148-150

Tot Ion: 75 Resp: 72090

Ion Ratio Lower Upper

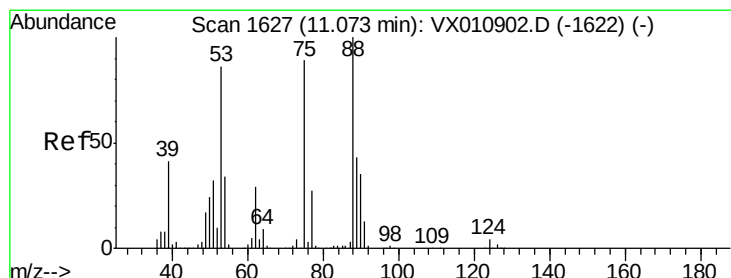
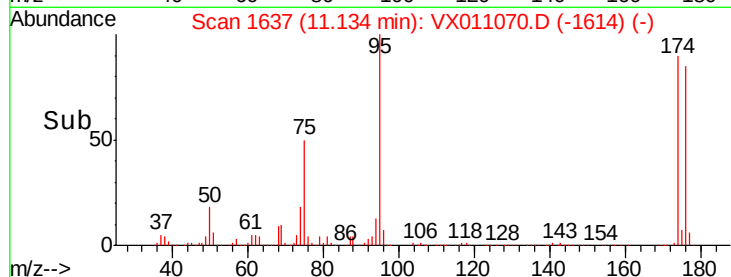
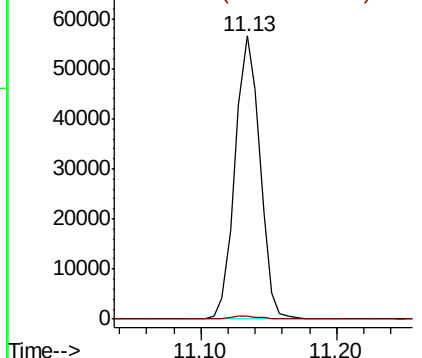
75 100

77 1.4 21.3 64.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 68.120 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011070.D

Acq: 25 Jul 2019 12:09

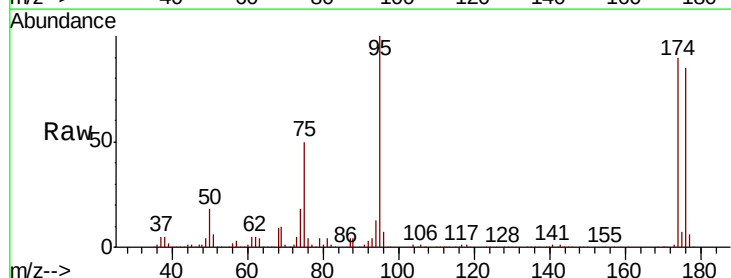
Tgt Ion: 75 Resp: 72090

Ion Ratio Lower Upper

75 100

53 0.1 76.7 115.1#

89 0.0 38.5 57.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

