

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051319\
 Data File : VX009544.D
 Acq On : 13 May 2019 15:31
 Operator : JC/SP
 Sample : K2834-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB202-GW-438-440

Quant Time: May 14 03:44:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 07:31:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	191184	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	303609	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	267394	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	114211	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	123166	47.19	ug/l	0.00
Spiked Amount			Recovery	=	94.38%	
35) Dibromofluoromethane	5.50	113	91696	48.04	ug/l	0.00
Spiked Amount			Recovery	=	96.08%	
50) Toluene-d8	8.71	98	379509	49.25	ug/l	0.00
Spiked Amount			Recovery	=	98.50%	
62) 4-Bromofluorobenzene	11.13	95	124536	44.48	ug/l	0.00
Spiked Amount			Recovery	=	88.96%	

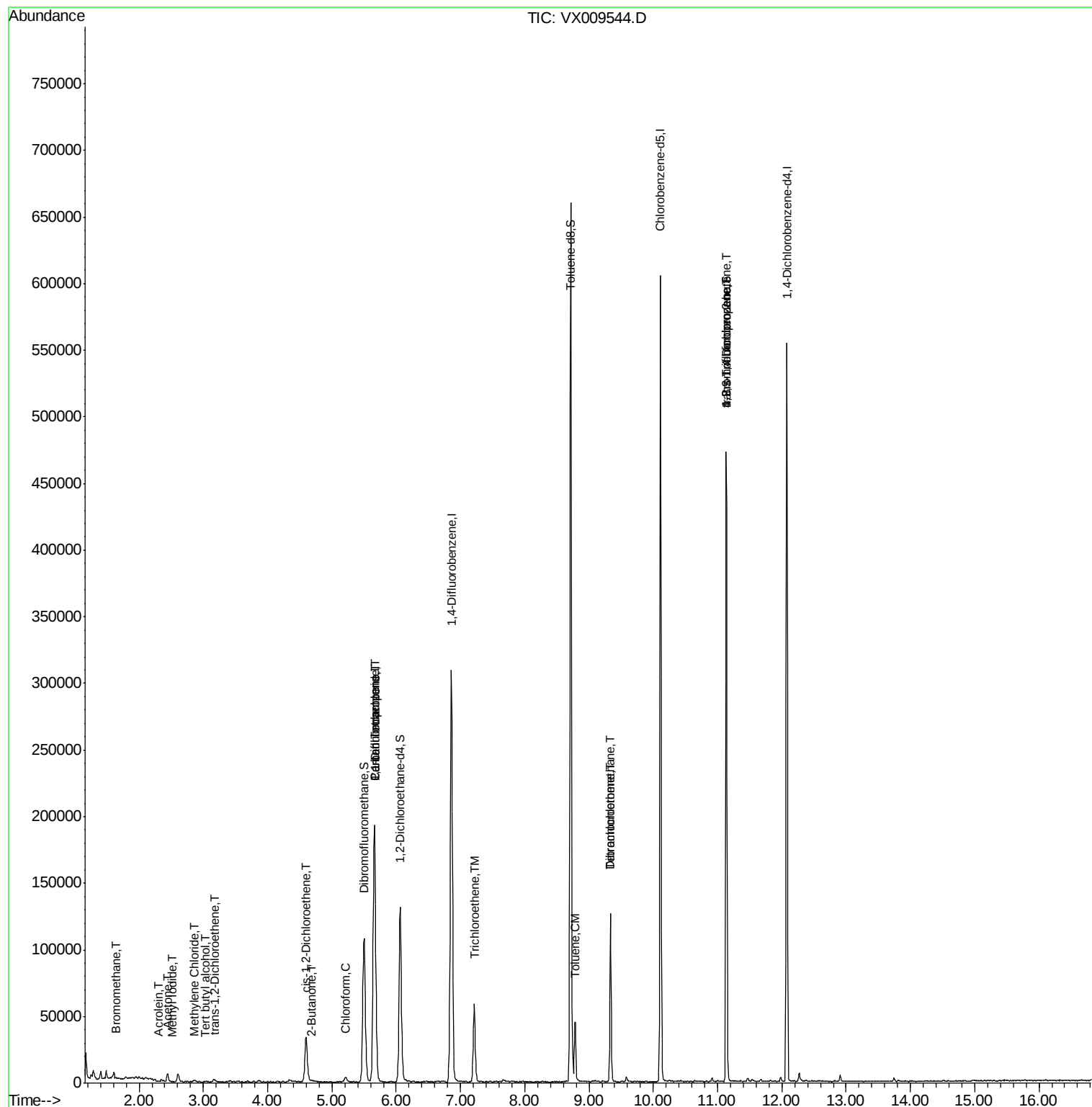
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	312	0.222	ug/l	93
10) Methyl Iodide	2.52	142	71	4.625	ug/l #	77
11) Tert butyl alcohol	3.02	59	214	0.354	ug/l #	73
13) Acrolein	2.30	56	143	0.261	ug/l #	7
16) Acetone	2.44	43	7466	5.327	ug/l	91
20) Methylene Chloride	2.87	84	455	0.201	ug/l #	73
21) trans-1,2-Dichloroethene	3.18	96	582	0.299	ug/l #	58
25) 2-Butanone	4.68	43	1547	0.710	ug/l #	77
27) cis-1,2-Dichloroethene	4.60	96	21386	9.210	ug/l	88
28) Bromochloromethane	5.04	49	20	Below Cal	#	20
30) Chloroform	5.21	83	3897	1.039	ug/l	92
36) 1,1-Dichloropropene	5.67	75	14522	5.147	ug/l #	50
38) Carbon Tetrachloride	5.67	117	17545	6.844	ug/l #	16
44) Trichloroethene	7.21	130	21917	10.382	ug/l	97
52) Toluene	8.79	92	16490	3.107	ug/l	100
60) Dibromochloromethane	9.34	129	22598	10.685	ug/l #	11
64) Tetrachloroethene	9.34	164	24126	13.153	ug/l	99
76) 1,2,3-Trichloropropane	11.13	75	62447	23.571	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	62447	60.310	ug/l #	10

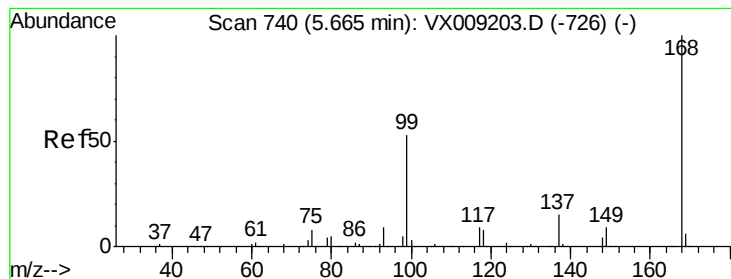
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BP-VPB202-GW-438-440

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
Quant Title : SW846 8260
QLast Update : Thu May 09 07:31:15 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX009544.D

Acq: 13 May 2019 15:31

Instrument :

MSVOA_X

ClientSampleId :

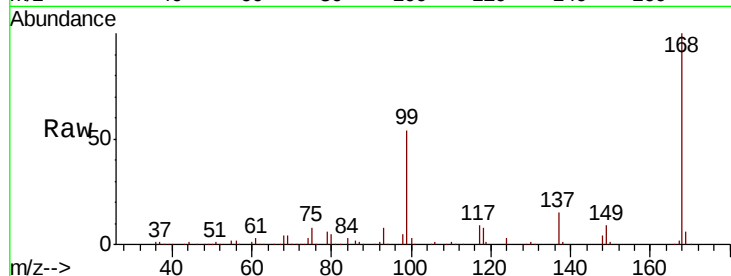
BP-VPB202-GW-438-440

Tot Ion:168 Resp: 191184

Ion Ratio Lower Upper

168 100

99 53.8 42.3 63.5

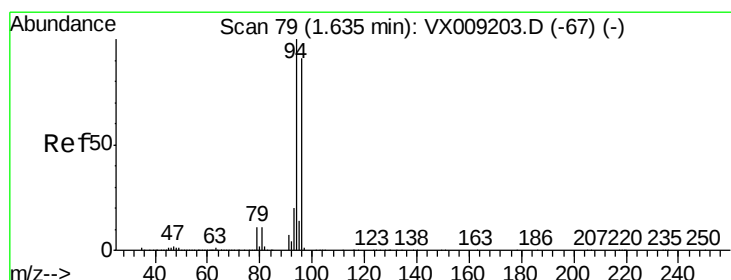
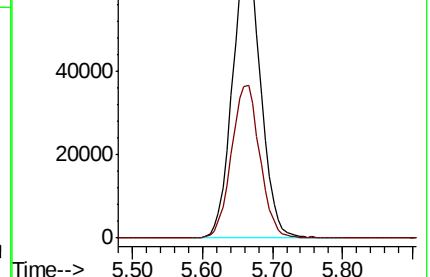
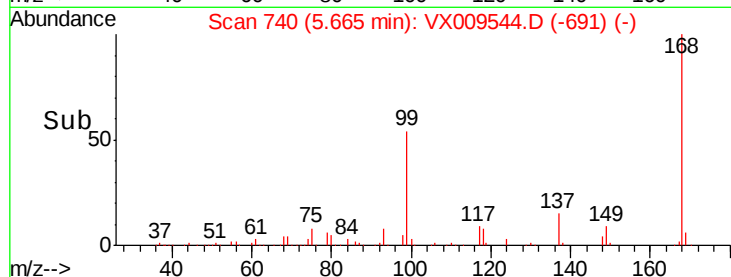


Abundance Ion 167.90 (167.60 to 168.60): VX009203.D (-726) (-)

Ion 98.90 (98.60 to 99.60): VX009203.D (-726) (-)

5.67

Time-->



#5

Bromomethane

Concen: 0.222 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX009544.D

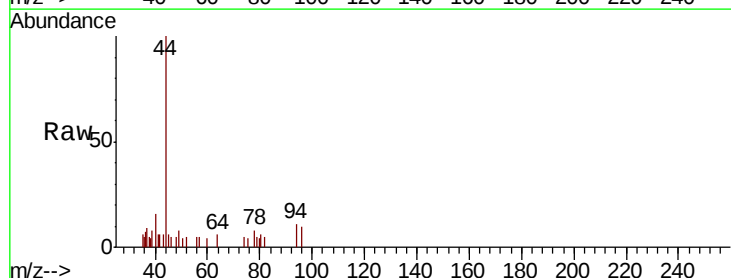
Acq: 13 May 2019 15:31

Tgt Ion: 94 Resp: 312

Ion Ratio Lower Upper

94 100

96 84.8 73.0 109.6

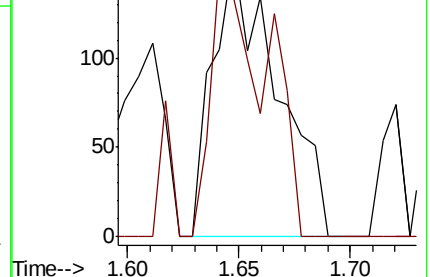
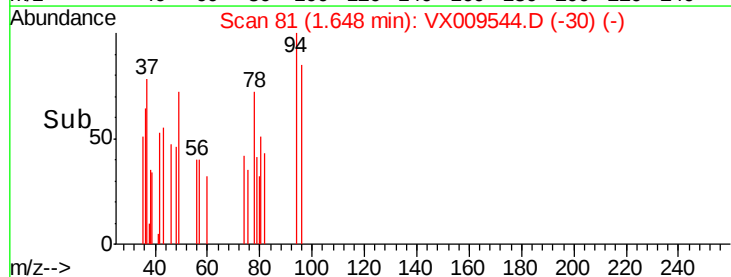


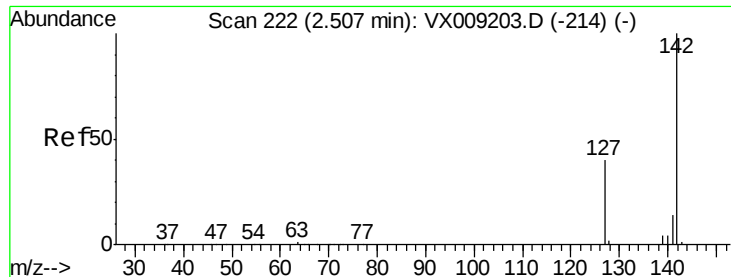
Abundance Ion 93.90 (93.60 to 94.60): VX009203.D (-67) (-)

Ion 95.90 (95.60 to 96.60): VX009203.D (-67) (-)

1.65

Time-->

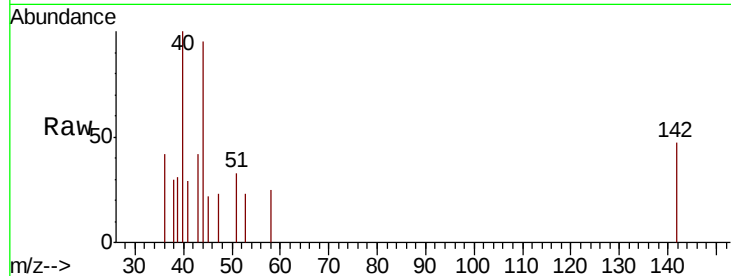




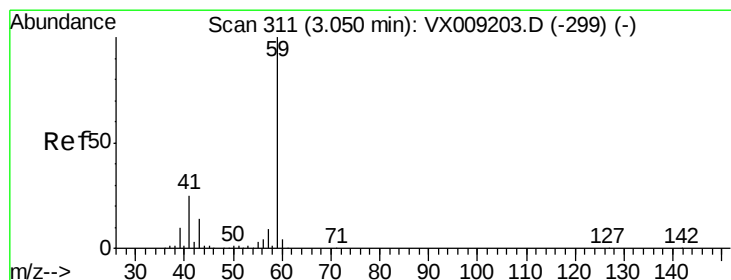
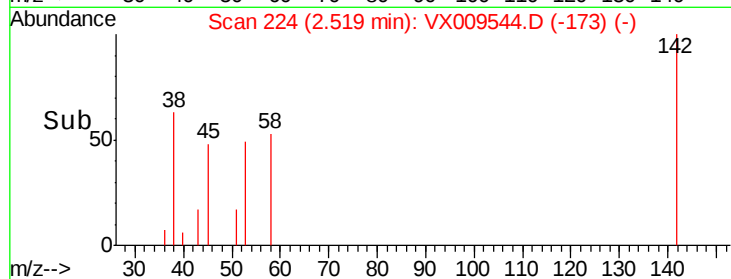
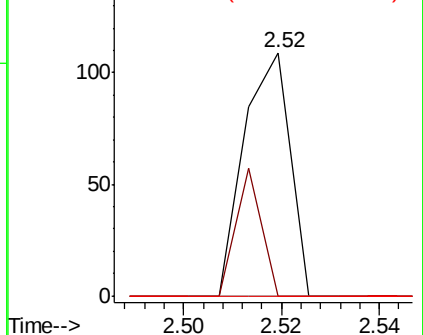
#10
Methvl Iodide
Concen: 4.625 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX009544.D
Acq: 13 May 2019 15:31

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB202-GW-438-440

Tot Ion:142 Resp: 71
Ion Ratio Lower Upper
142 100
127 29.6 32.7 49.1#
141 0.0 11.5 17.3#

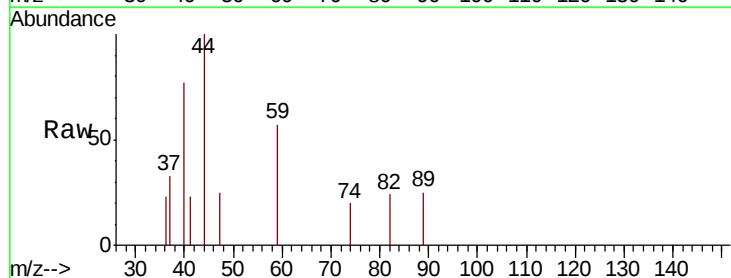


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

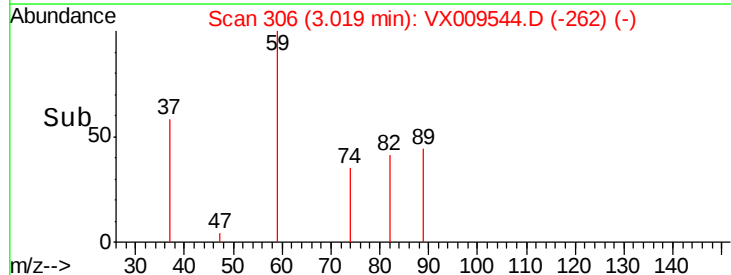
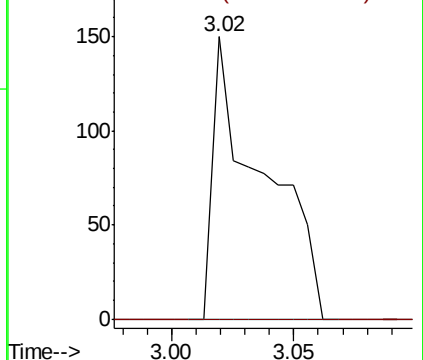


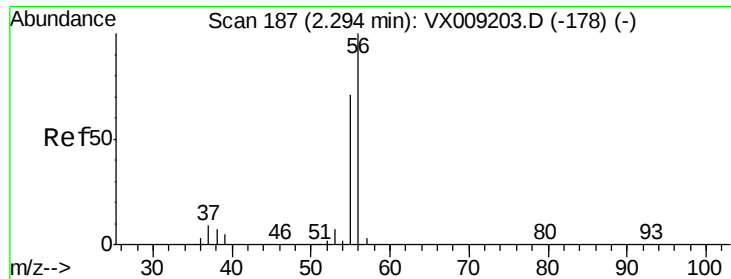
#11
Tert butyl alcohol
Concen: 0.354 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX009544.D
Acq: 13 May 2019 15:31

Tgt Ion: 59 Resp: 214
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



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





#13

Acrolein

Concen: 0.261 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX009544.D

Acq: 13 May 2019 15:31

Instrument :

MSVOA_X

ClientSampleId :

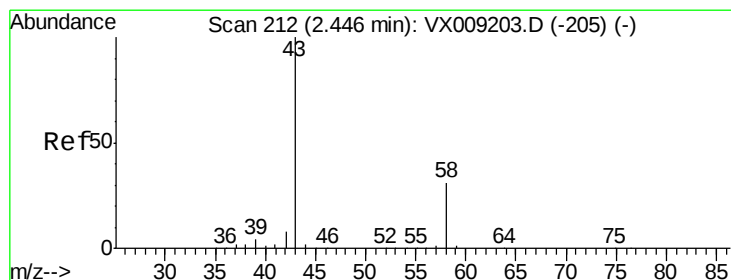
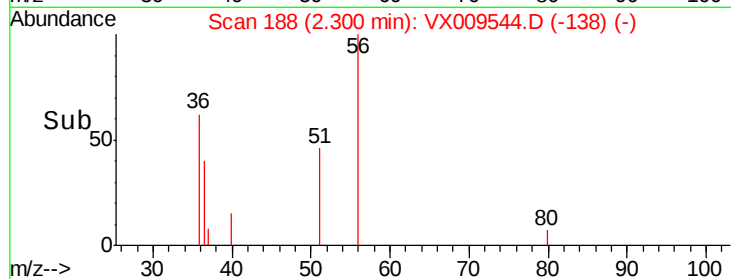
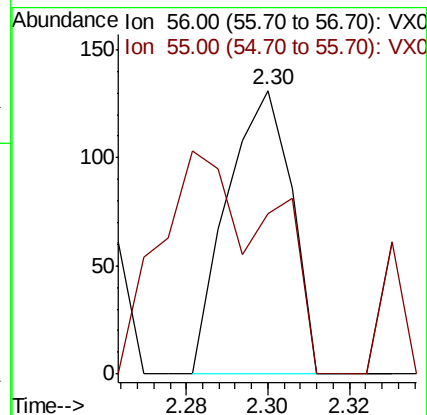
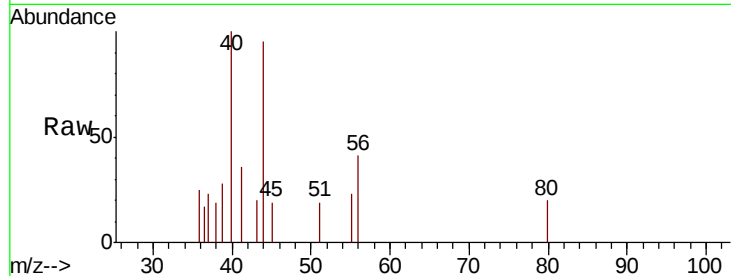
BP-VPB202-GW-438-440

Tot Ion: 56 Resp: 143

Ion Ratio Lower Upper

56 100

55 147.6 56.6 85.0#



#16

Acetone

Concen: 5.327 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009544.D

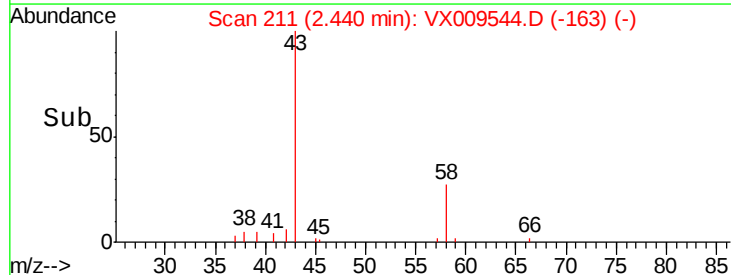
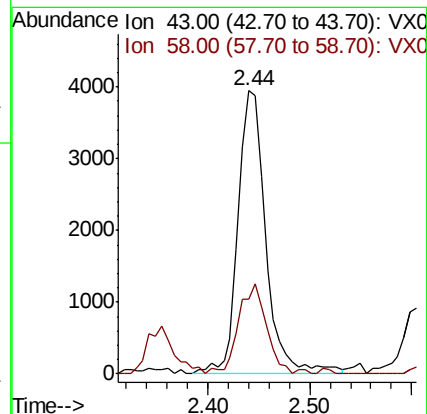
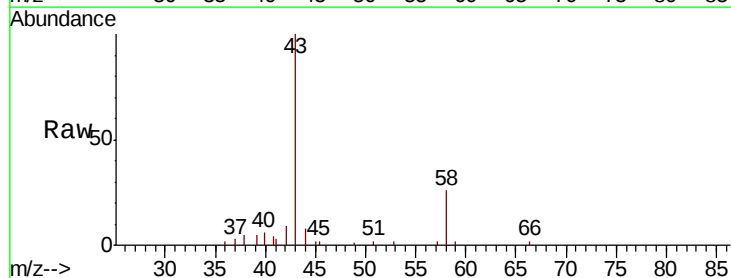
Acq: 13 May 2019 15:31

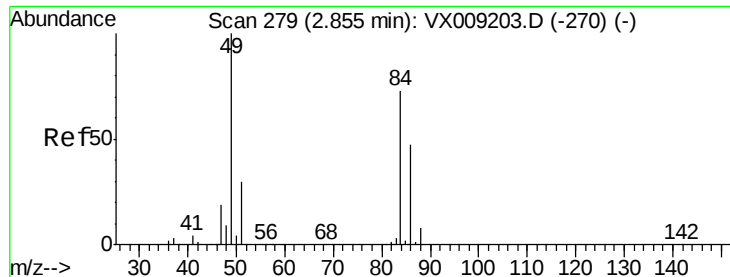
Tgt Ion: 43 Resp: 7466

Ion Ratio Lower Upper

43 100

58 26.2 24.9 37.3

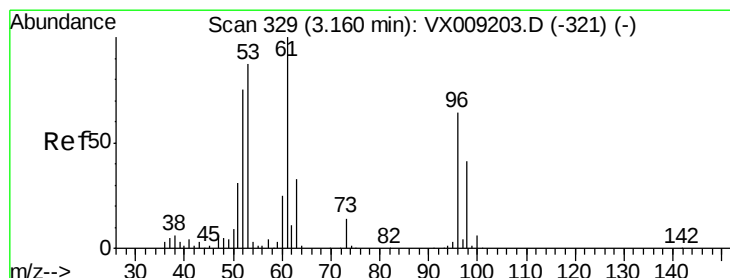
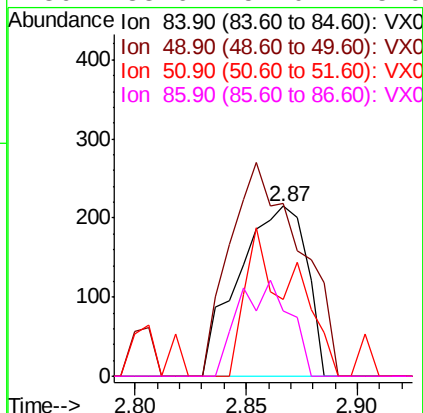
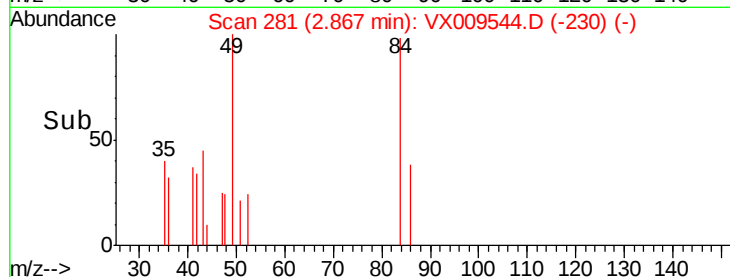
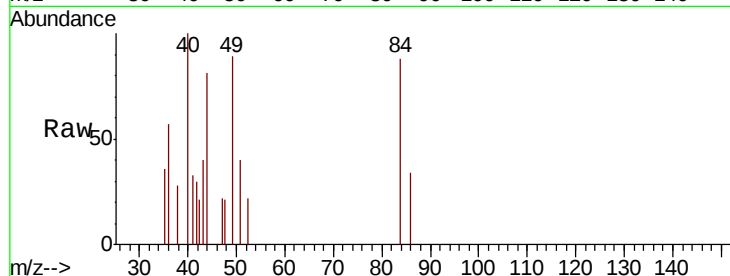




#20
Methvlene Chloride
Concen: 0.201 ug/l
RT: 2.87 min Scan# 281
Delta R.T. 0.01 min
Lab File: VX009544.D
Acq: 13 May 2019 15:31

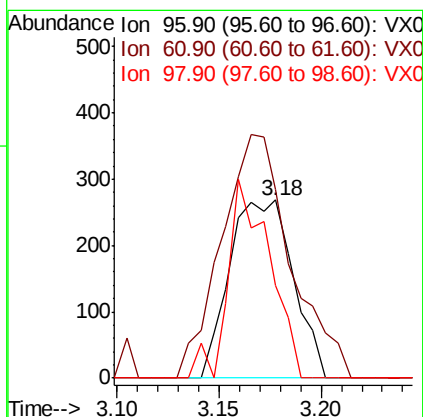
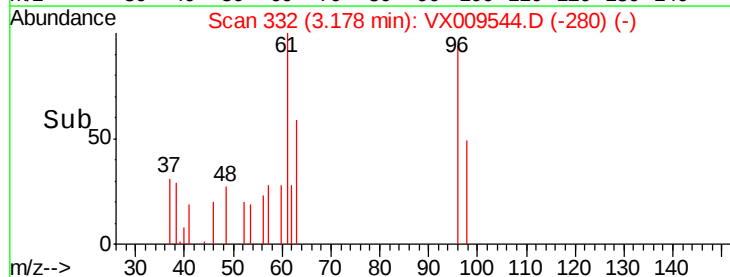
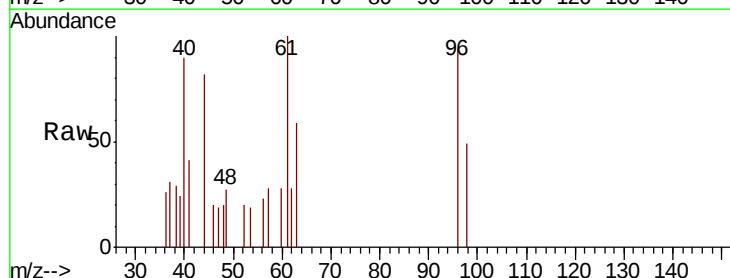
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB202-GW-438-440

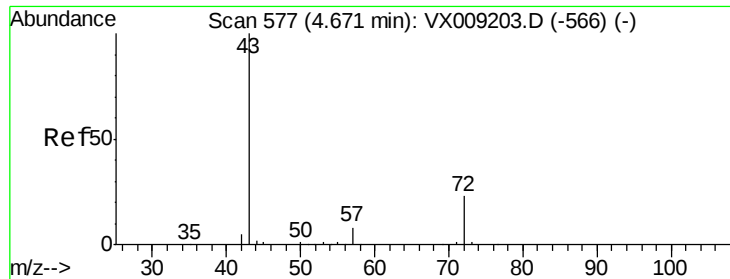
Tot Ion: 84 Resp: 455
Ion Ratio Lower Upper
84 100
49 101.9 109.9 164.9#
51 45.1 32.7 49.1
86 38.6 52.0 78.0#



#21
trans-1,2-Dichloroethene
Concen: 0.299 ug/l
RT: 3.18 min Scan# 332
Delta R.T. 0.02 min
Lab File: VX009544.D
Acq: 13 May 2019 15:31

Tgt Ion: 96 Resp: 582
Ion Ratio Lower Upper
96 100
61 86.9 124.5 186.7#
98 52.2 50.4 75.6





#25

2-Butanone

Concen: 0.710 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.01 min

Lab File: VX009544.D

Acq: 13 May 2019 15:31

Instrument :

MSVOA_X

ClientSampleId :

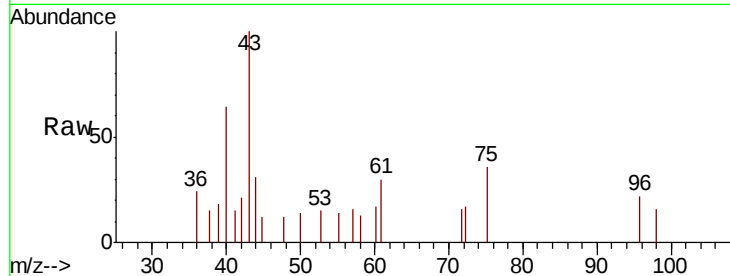
BP-VPB202-GW-438-440

Tot Ion: 43 Resp: 1547

Ion Ratio Lower Upper

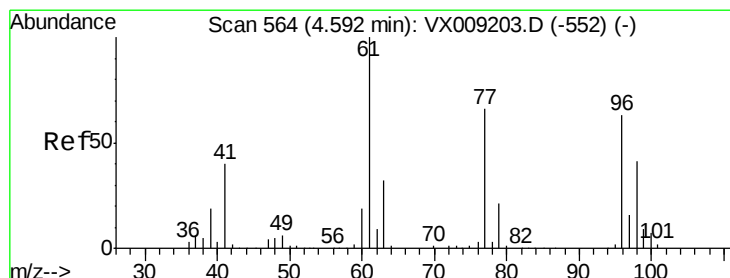
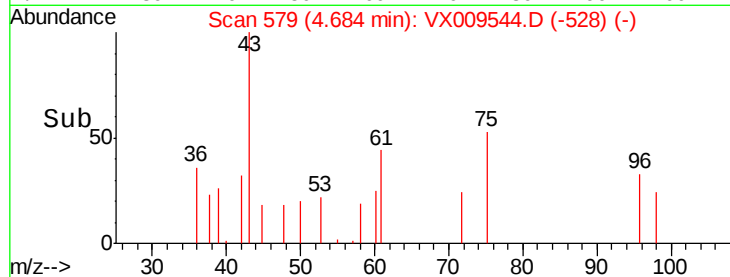
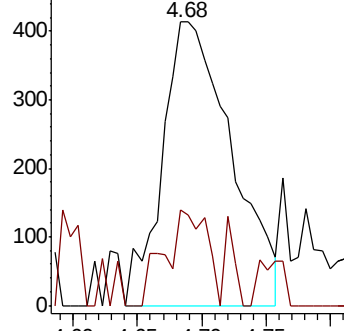
43 100

72 33.7 18.2 27.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#27

cis-1,2-Dichloroethene

Concen: 9.210 ug/l

RT: 4.60 min Scan# 565

Delta R.T. 0.01 min

Lab File: VX009544.D

Acq: 13 May 2019 15:31

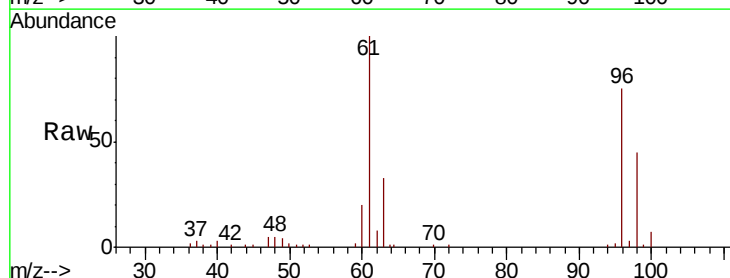
Tgt Ion: 96 Resp: 21386

Ion Ratio Lower Upper

96 100

61 140.4 0.0 324.0

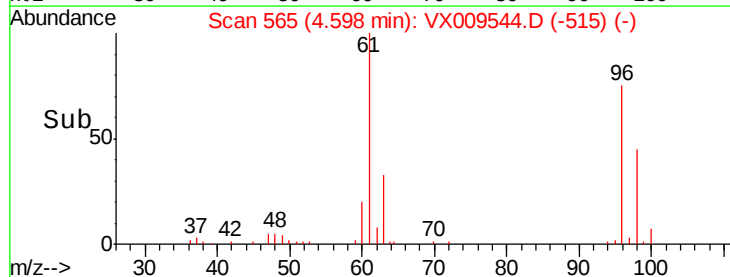
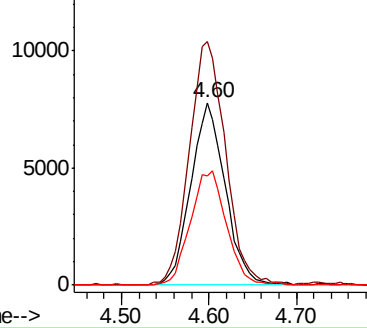
98 65.6 0.0 130.4

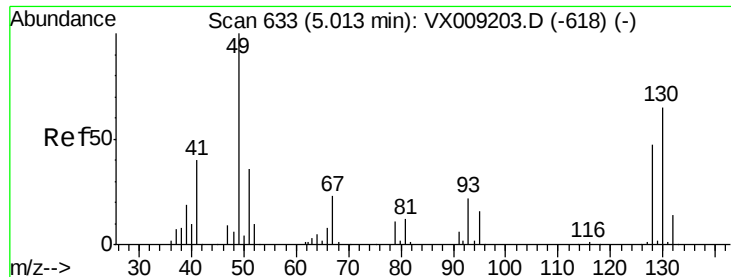


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#28

Bromochloromethane

Concen: Below Cal

RT: 5.04 min Scan# 638

Delta R.T. 0.03 min

Lab File: VX009544.D

Acq: 13 May 2019 15:31

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB202-GW-438-440

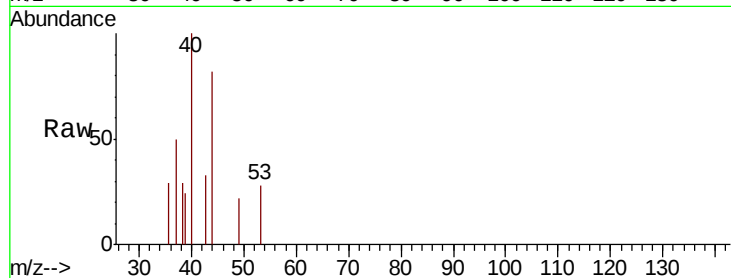
Tot Ion: 49 Resp: 20

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

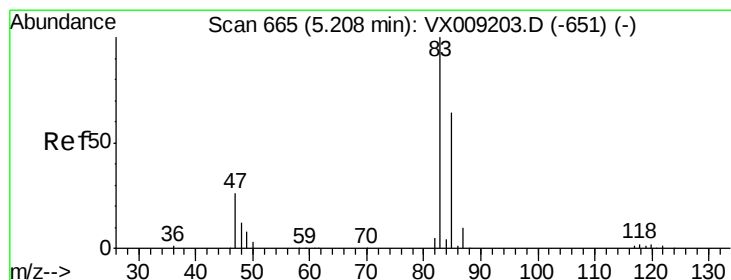
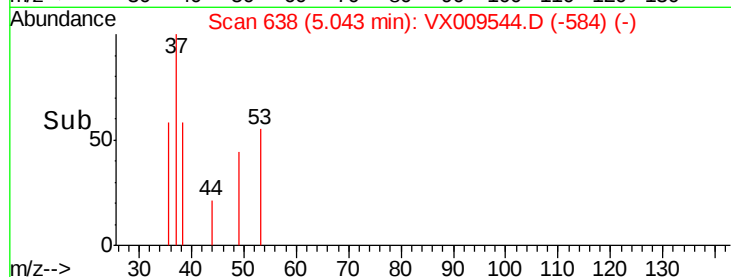
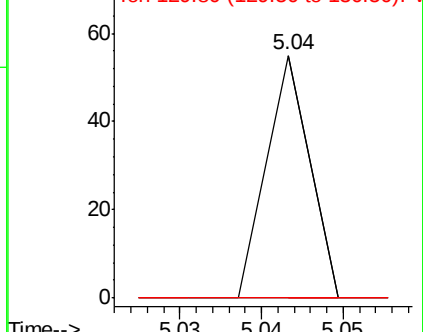
130 0.0 51.2 76.8#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#30

Chloroform

Concen: 1.039 ug/l

RT: 5.21 min Scan# 665

Delta R.T. -0.00 min

Lab File: VX009544.D

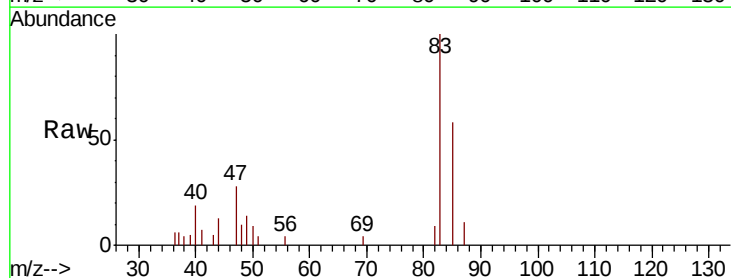
Acq: 13 May 2019 15:31

Tgt Ion: 83 Resp: 3897

Ion Ratio Lower Upper

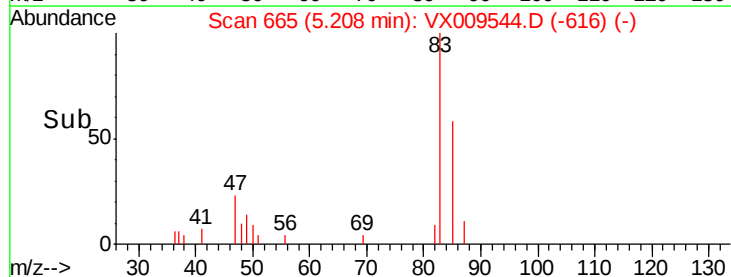
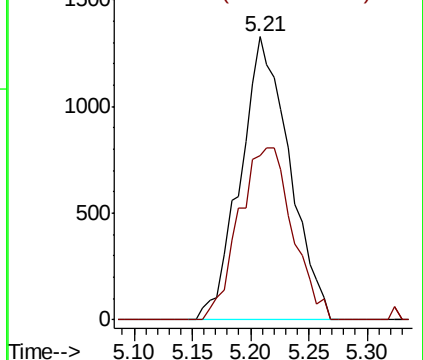
83 100

85 58.2 51.5 77.3



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0





#33

1,2-Dichloroethane-d4

Concen: 47.192 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX009544.D

Acq: 13 May 2019 15:31

Instrument :

MSVOA_X

ClientSampleId :

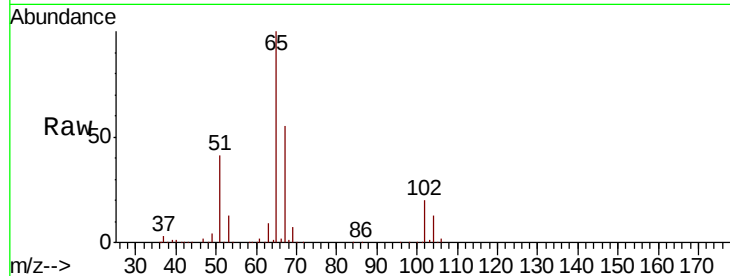
BP-VPB202-GW-438-440

Tot Ion: 65 Resp: 123166

Ion Ratio Lower Upper

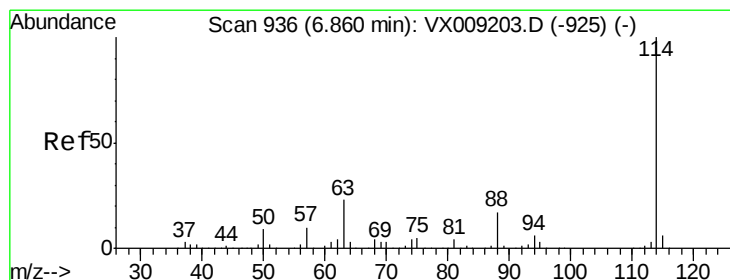
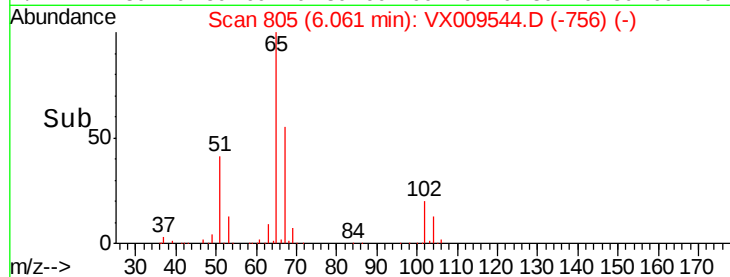
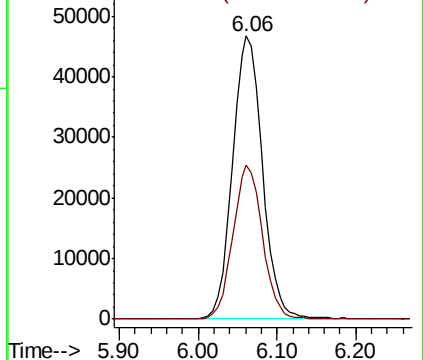
65 100

67 53.9 0.0 106.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX009544.D

Acq: 13 May 2019 15:31

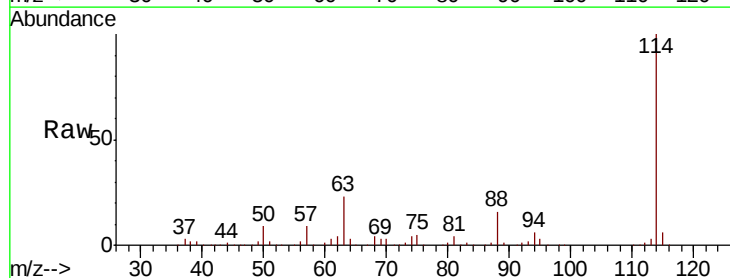
Tgt Ion: 114 Resp: 303609

Ion Ratio Lower Upper

114 100

63 22.6 0.0 45.6

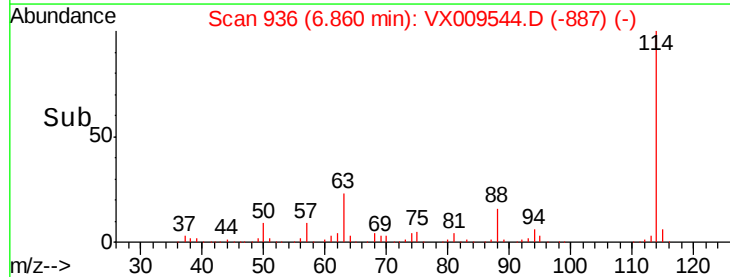
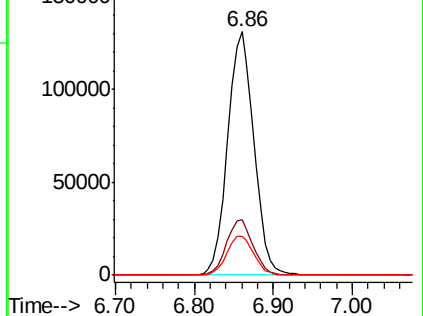
88 15.7 0.0 33.2

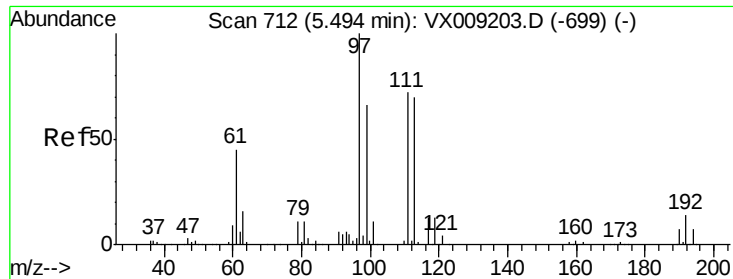


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

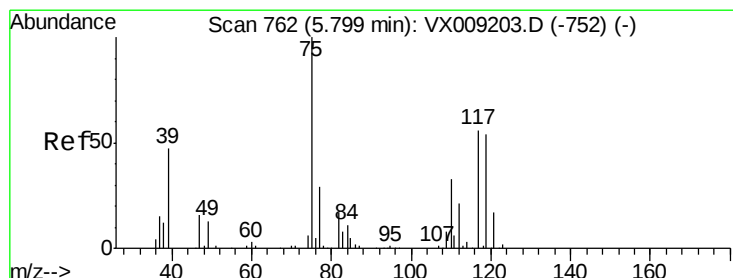
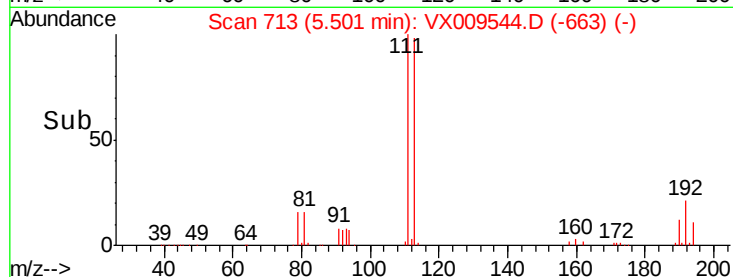
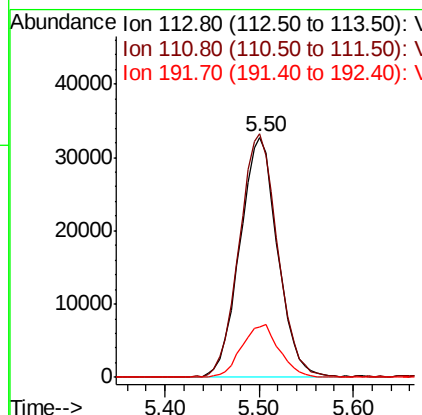
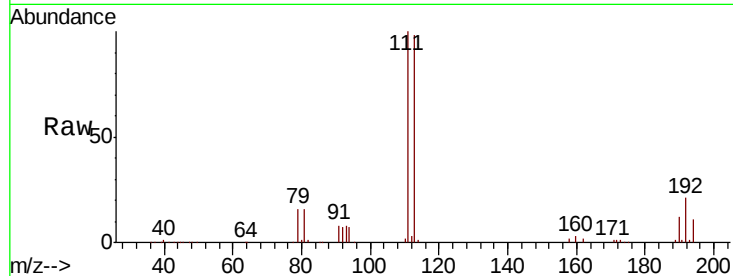




#35
 Dibromofluoromethane
 Concen: 48.043 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX009544.D
 Acq: 13 May 2019 15:31

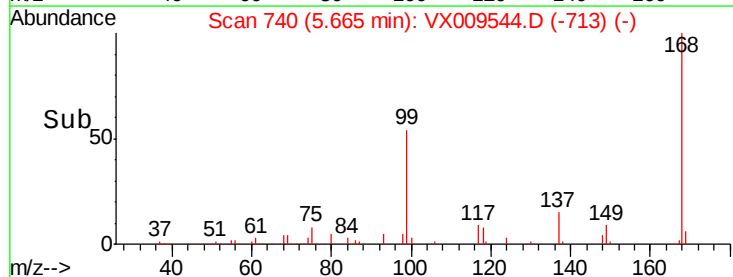
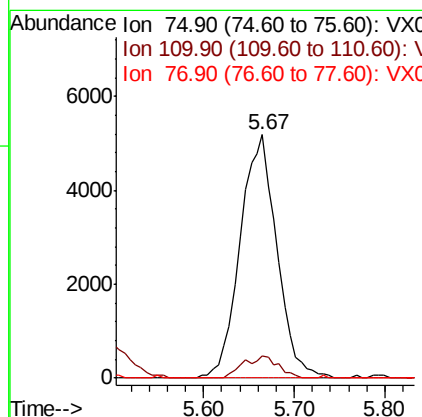
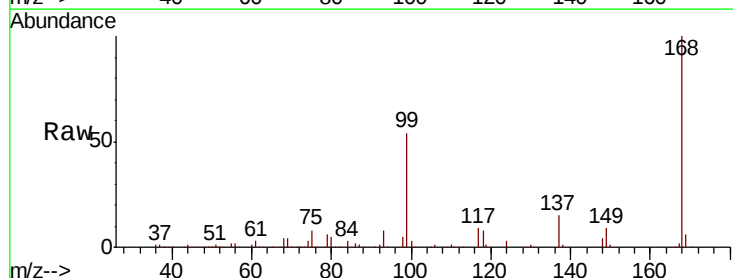
Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB202-GW-438-440

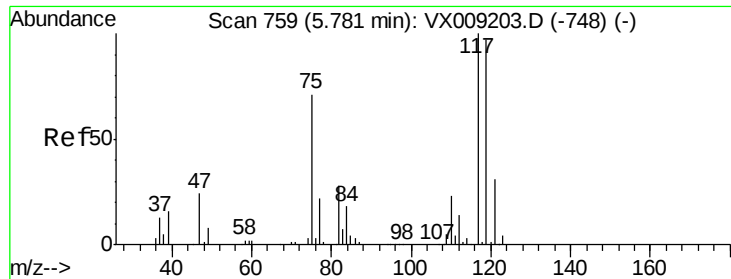
Tot Ion:113 Resp: 91696
 Ion Ratio Lower Upper
 113 100
 111 103.3 82.8 124.2
 192 22.1 17.0 25.6



#36
 1,1-Dichloropropene
 Concen: 5.147 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX009544.D
 Acq: 13 May 2019 15:31

Tgt Ion: 75 Resp: 14522
 Ion Ratio Lower Upper
 75 100
 110 8.7 16.9 50.6#
 77 0.0 24.8 37.2#





#38

Carbon Tetrachloride

Concen: 6.844 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX009544.D

Acq: 13 May 2019 15:31

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB202-GW-438-440

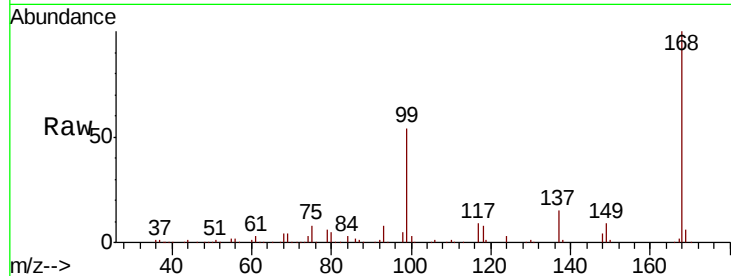
Tot Ion:117 Resp: 17545

Ion Ratio Lower Upper

117 100

119 6.0 77.5 116.3#

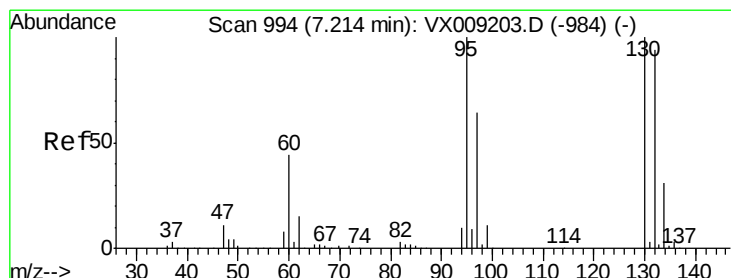
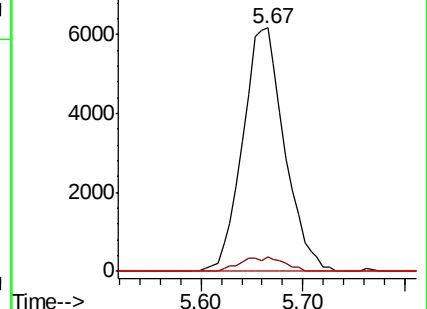
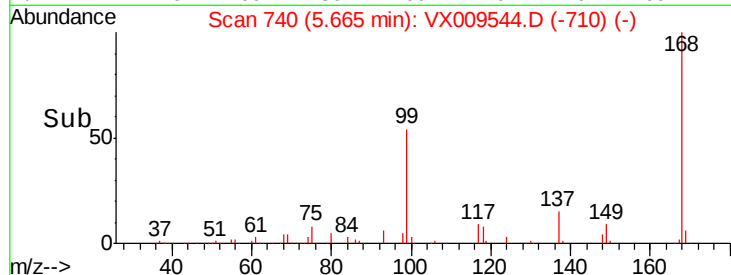
121 0.0 24.7 37.1#



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



#44

Trichloroethene

Concen: 10.382 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX009544.D

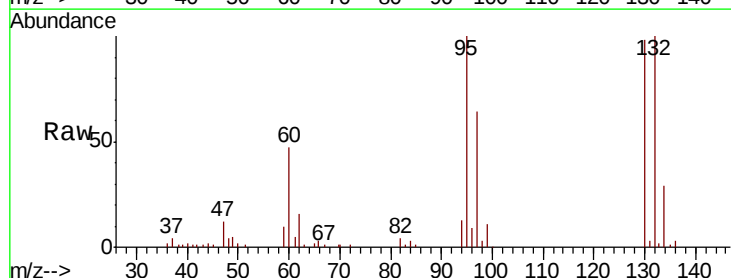
Acq: 13 May 2019 15:31

Tgt Ion:130 Resp: 21917

Ion Ratio Lower Upper

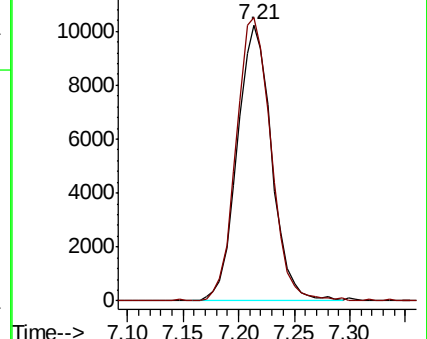
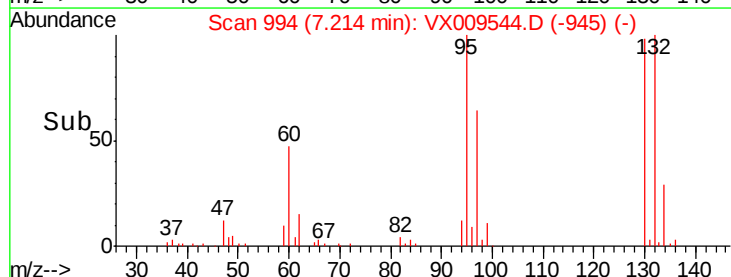
130 100

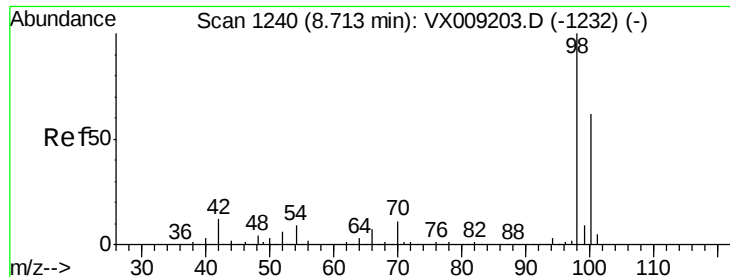
95 102.5 0.0 199.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

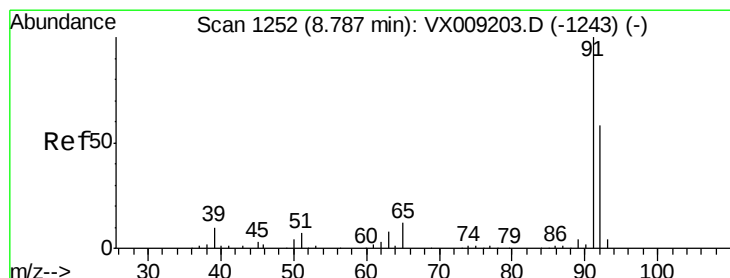
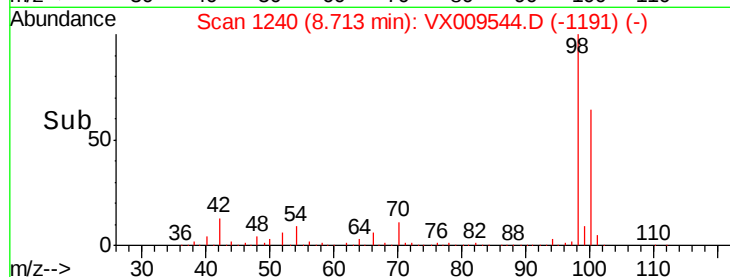
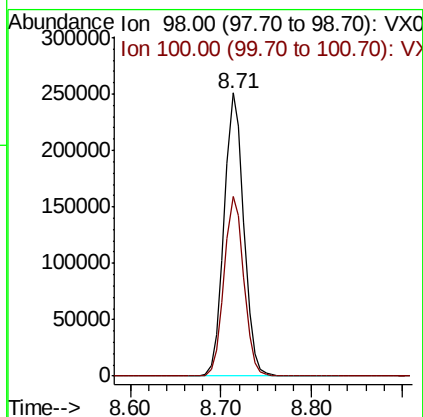
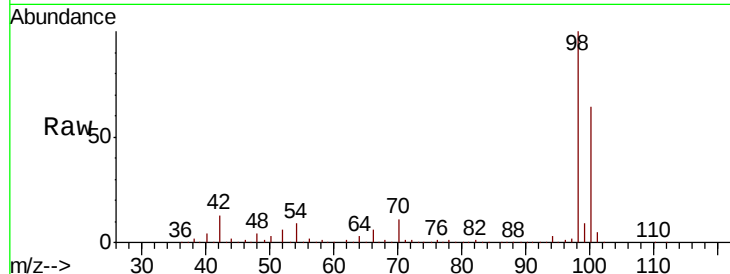




#50
Toluene-d8
Concen: 49.252 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX009544.D
Acq: 13 May 2019 15:31

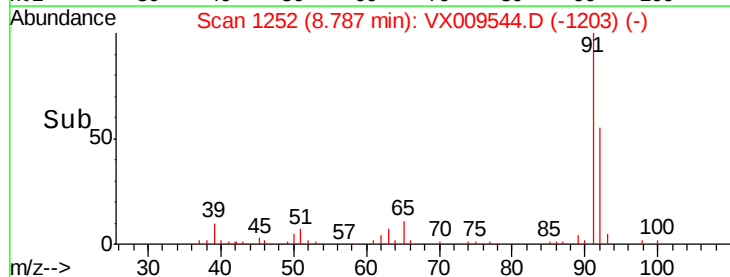
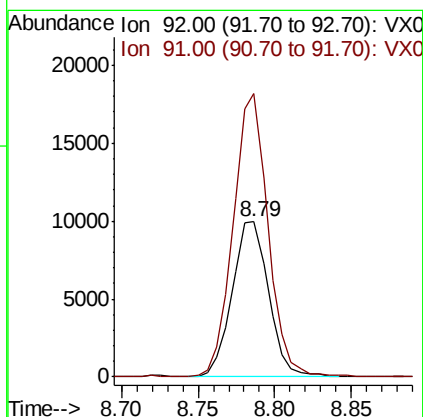
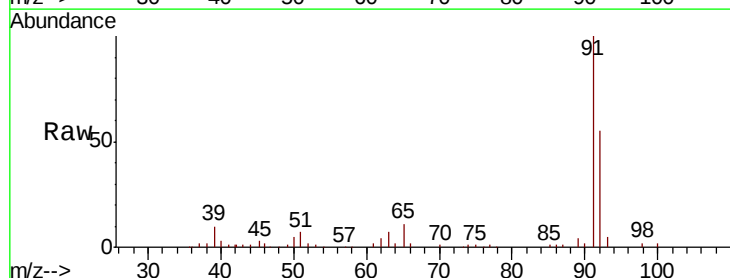
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB202-GW-438-440

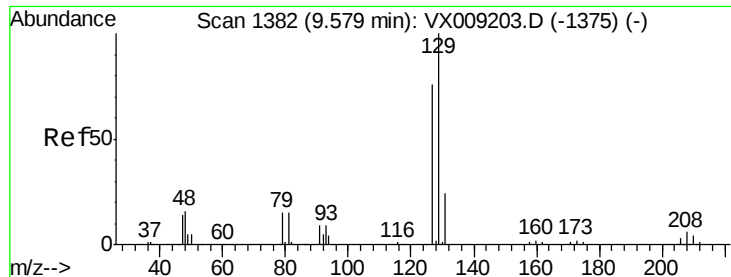
Tot Ion: 98 Resp: 379509
Ion Ratio Lower Upper
98 100
100 63.9 51.2 76.8



#52
Toluene
Concen: 3.107 ug/l
RT: 8.79 min Scan# 1252
Delta R.T. -0.00 min
Lab File: VX009544.D
Acq: 13 May 2019 15:31

Tgt Ion: 92 Resp: 16490
Ion Ratio Lower Upper
92 100
91 174.1 138.8 208.2





#60

Dibromochloromethane

Concen: 10.685 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX009544.D

Acq: 13 May 2019 15:31

Instrument :

MSVOA_X

ClientSampleId :

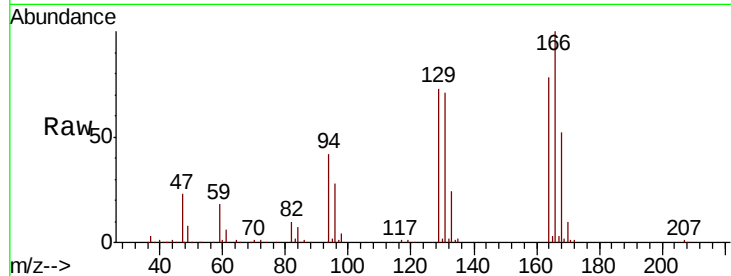
BP-VPB202-GW-438-440

Tot Ion:129 Resp: 22598

Ion Ratio Lower Upper

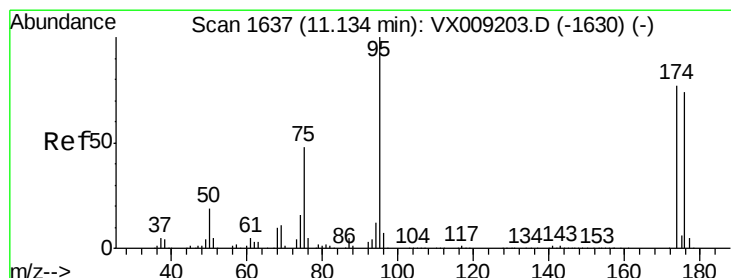
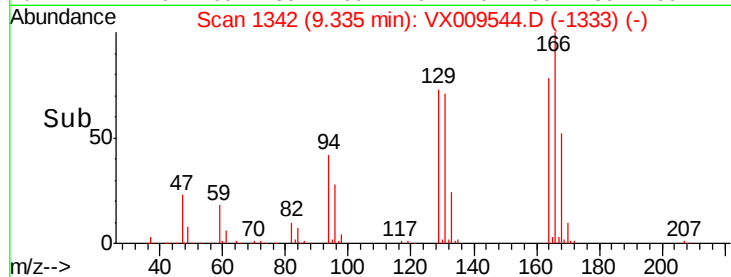
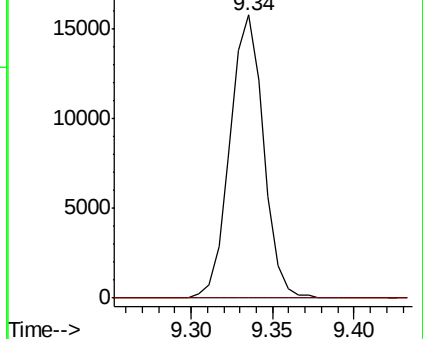
129 100

127 0.0 38.4 115.1#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 44.479 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009544.D

Acq: 13 May 2019 15:31

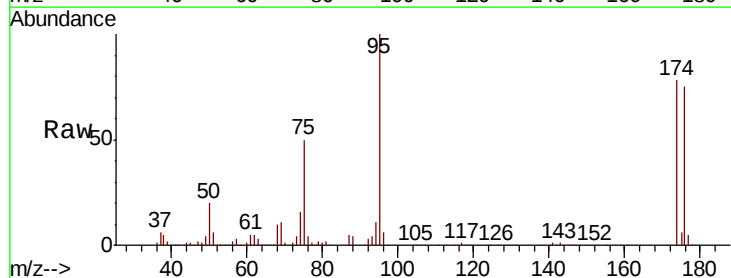
Tgt Ion: 95 Resp: 124536

Ion Ratio Lower Upper

95 100

174 82.6 0.0 161.6

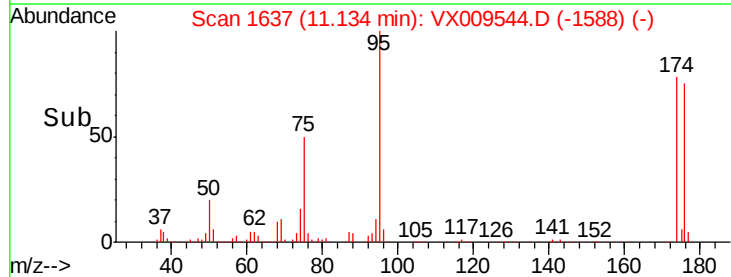
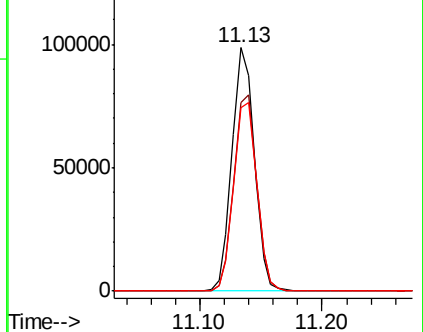
176 80.8 0.0 159.2

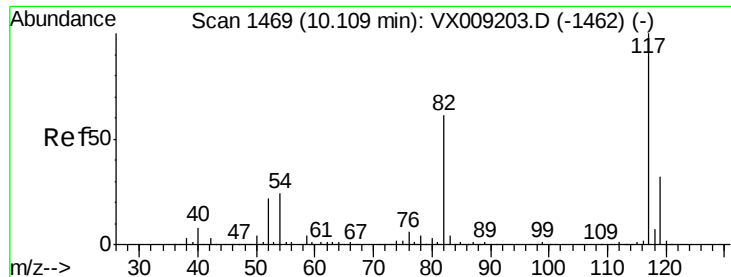


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

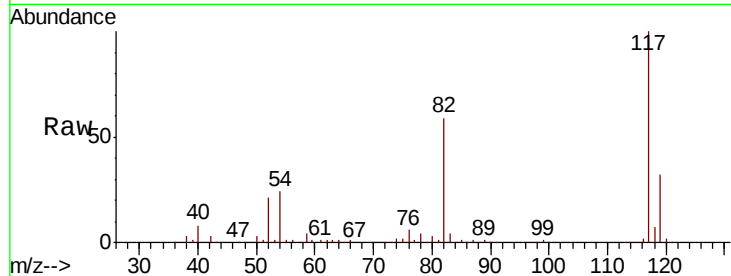




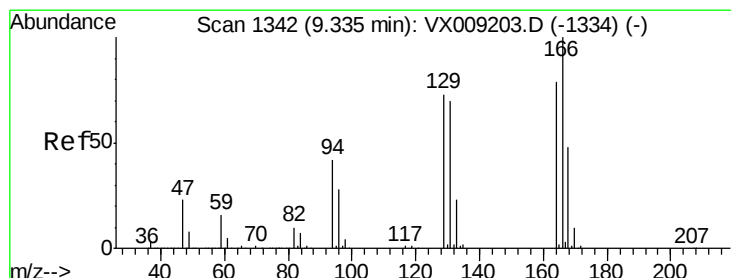
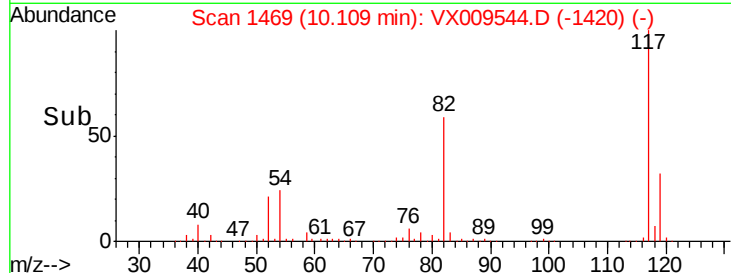
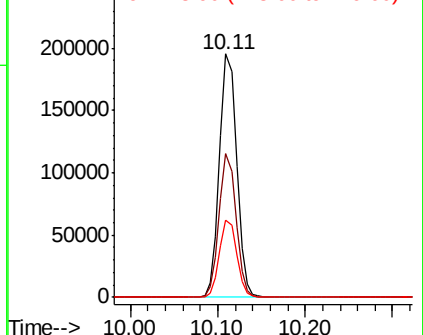
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX009544.D
Acq: 13 May 2019 15:31

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB202-GW-438-440

Tot Ion:117 Resp: 267394
Ion Ratio Lower Upper
117 100
82 59.1 48.8 73.2
119 31.6 25.8 38.6

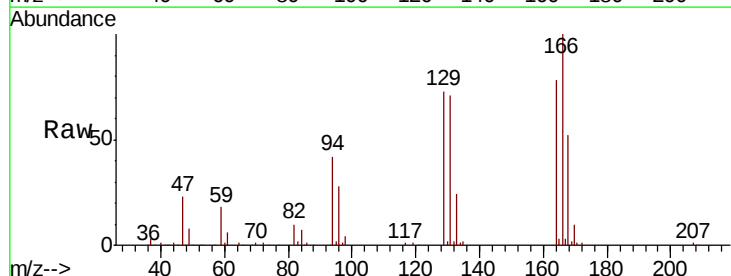


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

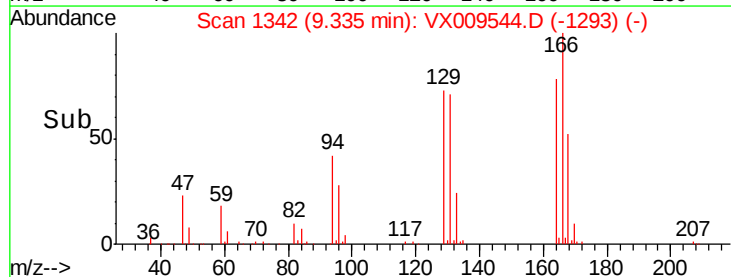
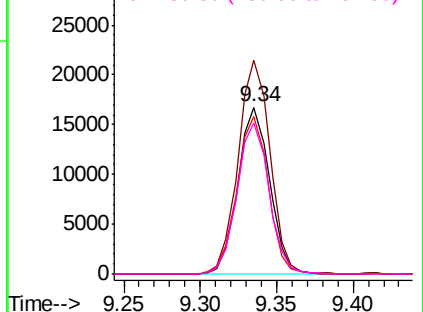


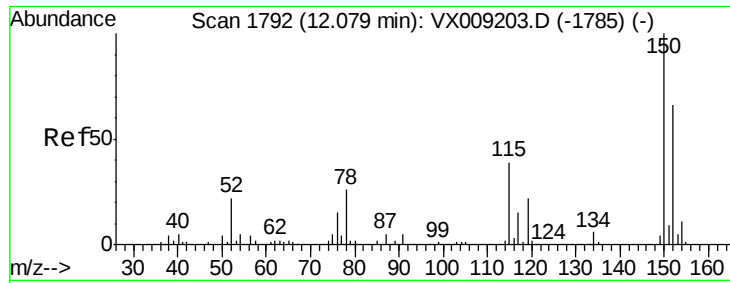
#64
Tetrachloroethene
Concen: 13.153 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX009544.D
Acq: 13 May 2019 15:31

Tgt Ion:164 Resp: 24126
Ion Ratio Lower Upper
164 100
166 128.0 101.2 151.8
129 94.1 74.3 111.5
131 90.6 71.0 106.6



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX009544.D

Acq: 13 May 2019 15:31

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB202-GW-438-440

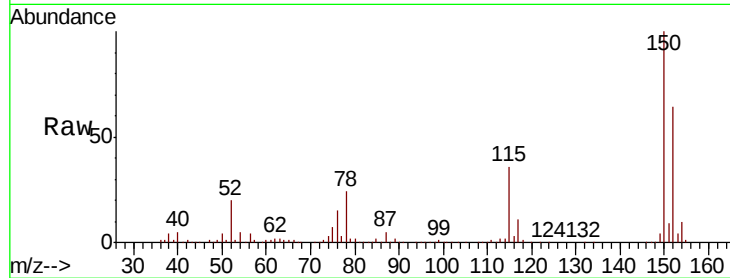
Tot Ion:152 Resp: 114211

Ion Ratio Lower Upper

152 100

115 58.1 41.2 123.6

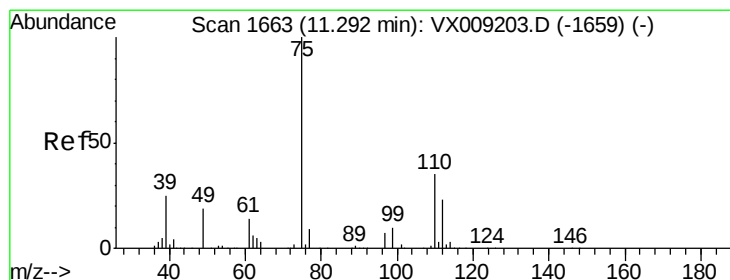
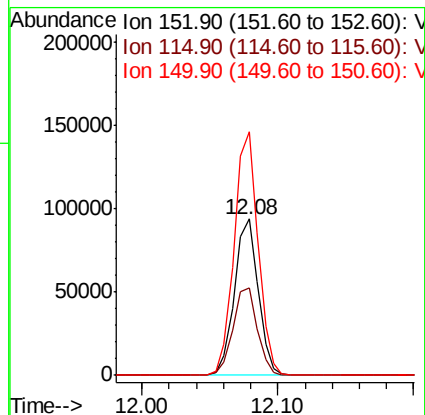
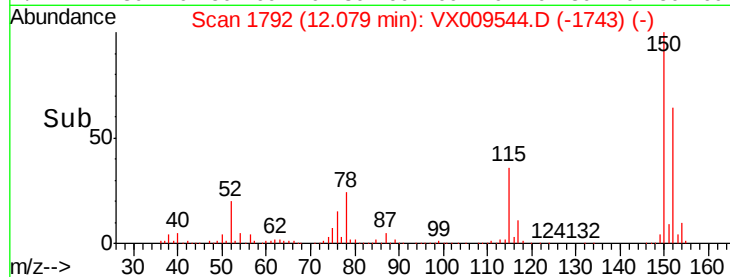
150 156.6 0.0 346.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 23.571 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009544.D

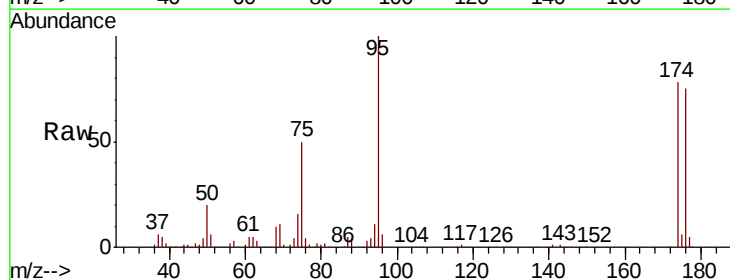
Acq: 13 May 2019 15:31

Tgt Ion: 75 Resp: 62447

Ion Ratio Lower Upper

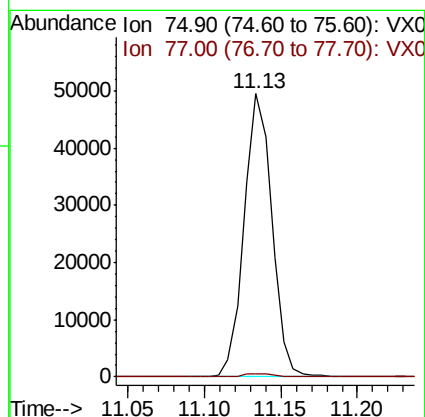
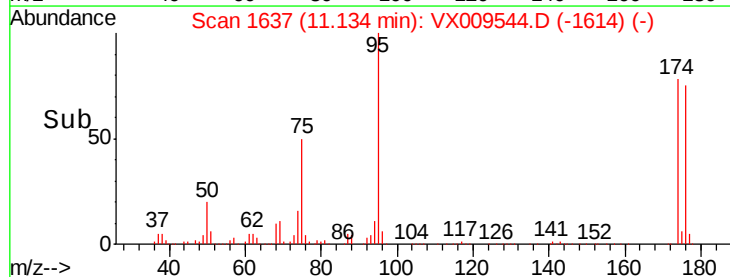
75 100

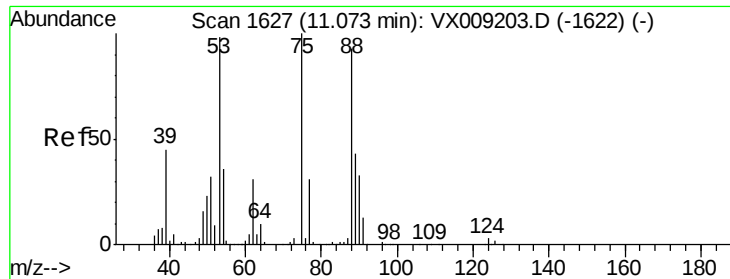
77 1.4 22.1 66.1#



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: 60.310 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009544.D

Acq: 13 May 2019 15:31

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB202-GW-438-440

Tot Ion: 75 Resp: 62447

Ion Ratio Lower Upper

75 100

53 0.1 79.0 118.6#

89 0.0 34.7 52.1#

