

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX022519\
 Data File : VX007678.D
 Acq On : 25 Feb 2019 17:13
 Operator : JC/SP
 Sample : K1578-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB201-GW-240-242

Quant Time: Feb 26 02:22:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X022519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 26 01:53:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	355441	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	609533	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	565840	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	253090	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	213185	48.42	ug/l	0.00
Spiked Amount			Recovery	=	96.84%	
35) Dibromofluoromethane	5.50	113	197501	48.47	ug/l	0.00
Spiked Amount			Recovery	=	96.94%	
50) Toluene-d8	8.71	98	726919	46.60	ug/l	0.00
Spiked Amount			Recovery	=	93.20%	
62) 4-Bromofluorobenzene	11.13	95	254081	44.38	ug/l	0.00
Spiked Amount			Recovery	=	88.76%	

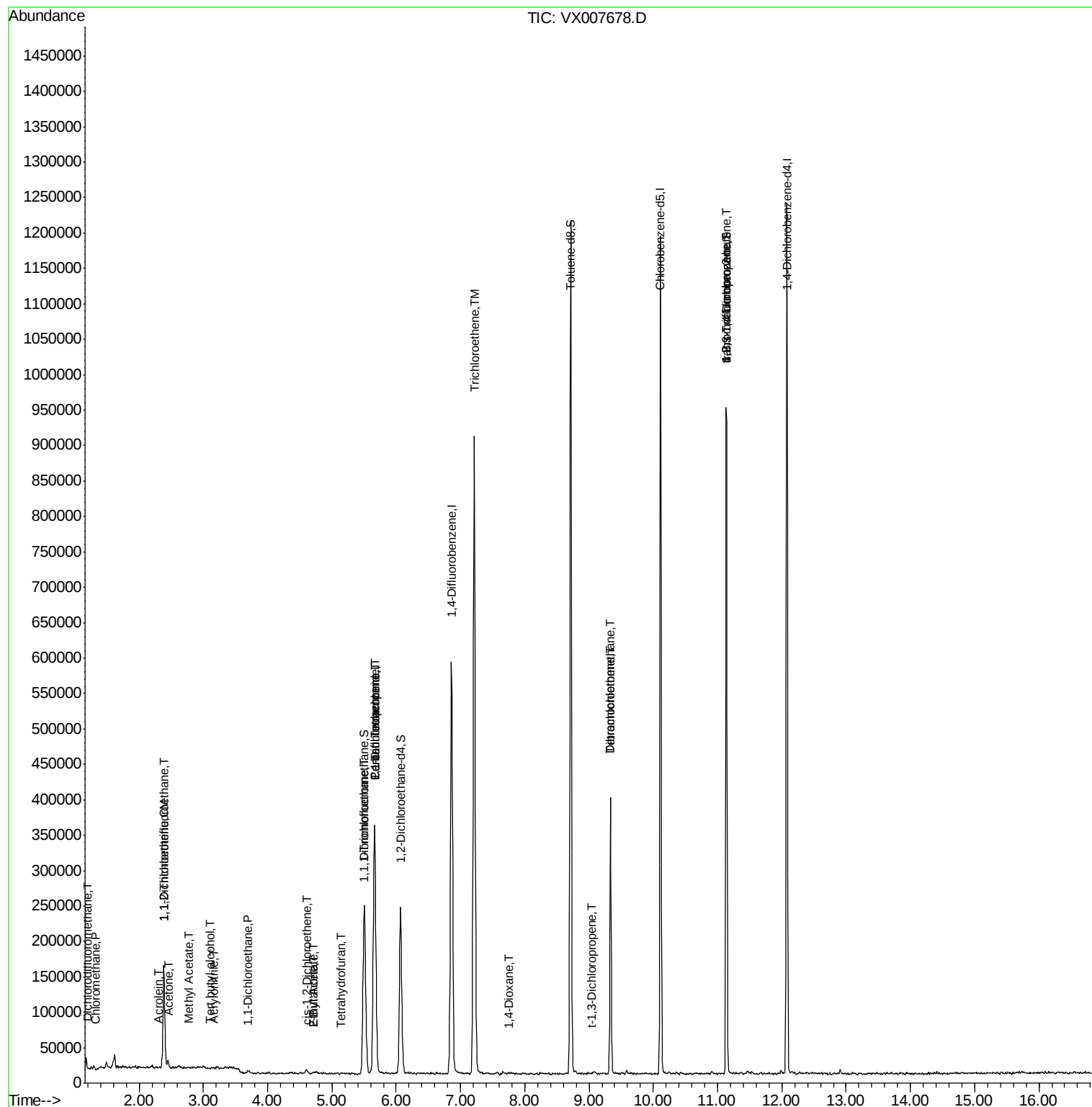
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	725	0.221	ug/l #	43
3) Chloromethane	1.33	50	760	0.209	ug/l	89
5) Bromomethane	1.64	94	270	Below Cal	#	36
9) 1,1,2-Trichlorotrifluoroet	2.39	101	36319	10.530	ug/l	92
11) Tert butyl alcohol	3.09	59	264	0.316	ug/l #	73
12) 1,1-Dichloroethene	2.38	96	24373	7.839	ug/l	98
13) Acrolein	2.29	56	211	0.284	ug/l #	68
15) Acrylonitrile	3.16	53	441	0.224	ug/l #	28
16) Acetone	2.45	43	8148	4.162	ug/l	97
18) Methyl Acetate	2.78	43	1127	0.264	ug/l #	50
24) 1,1-Dichloroethane	3.70	63	4613	0.709	ug/l #	90
25) 2-Butanone	4.71	43	2169	0.727	ug/l #	71
27) cis-1,2-Dichloroethene	4.60	96	3702	0.861	ug/l	84
29) Tetrahydrofuran	5.15	42	404	0.206	ug/l #	78
32) 1,1,1-Trichloroethane	5.49	97	8610	1.494	ug/l #	92
36) 1,1-Dichloropropene	5.66	75	24532	4.477	ug/l #	51
37) Ethyl Acetate	4.71	43	2169	0.356	ug/l	98
38) Carbon Tetrachloride	5.66	117	33845	6.148	ug/l #	19
44) Trichloroethene	7.21	130	354939	76.274	ug/l	96
49) 1,4-Dioxane	7.76	88	901	8.495	ug/l #	62
53) t-1,3-Dichloropropene	9.04	75	93	2.816	ug/l #	63
60) Dibromochloromethane	9.34	129	70620	16.499	ug/l #	12
64) Tetrachloroethene	9.34	164	72434	15.769	ug/l	99
76) 1,2,3-Trichloropropane	11.13	75	120420	22.322	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	120420	59.225	ug/l #	9

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X022519W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 26 01:53:13 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: VX007678.D

Acq: 25 Feb 2019 17:13

Instrument :

MSVOA_X

ClientSampleId :

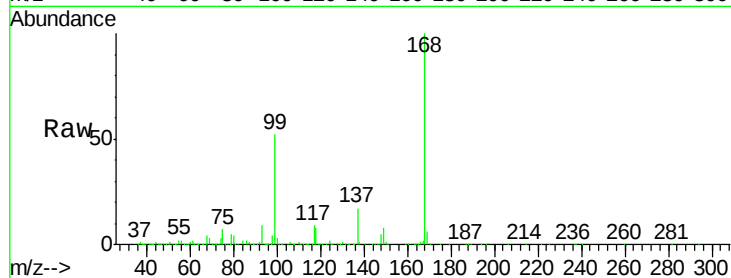
BP-VPB201-GW-240-242

Tot Ion:168 Resp: 355441

Ion Ratio Lower Upper

168 100

99 52.2 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

150000

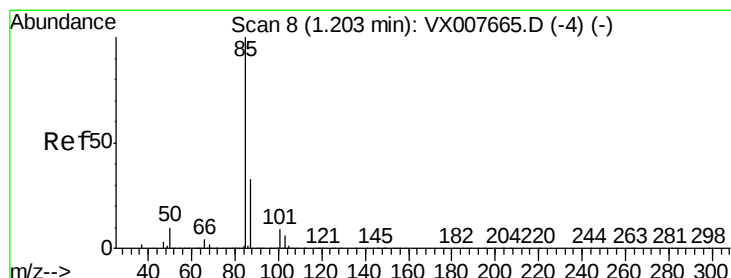
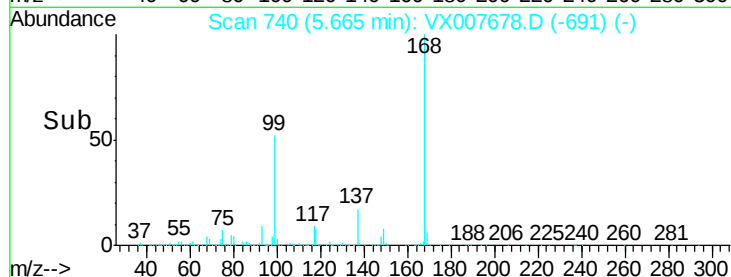
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.221 ug/l

RT: 1.20 min Scan# 7

Delta R.T. -0.01 min

Lab File: VX007678.D

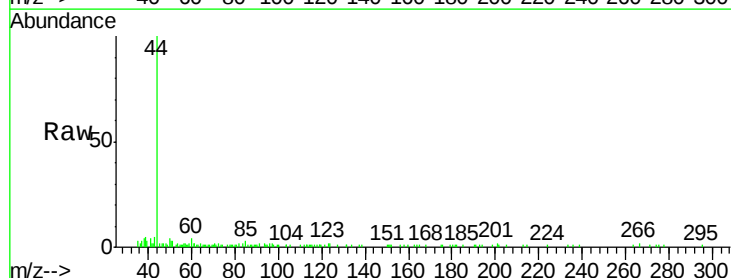
Acq: 25 Feb 2019 17:13

Tgt Ion: 85 Resp: 725

Ion Ratio Lower Upper

85 100

87 0.0 15.8 47.4#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

250

200

150

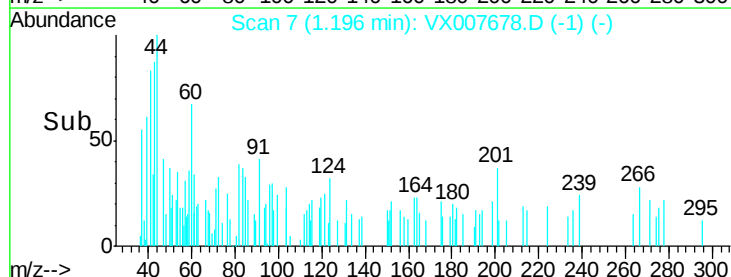
100

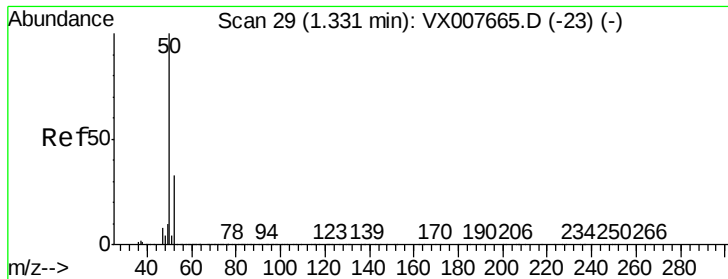
50

0

Time-->

1.15 1.20 1.25





#3

Chloromethane

Concen: 0.209 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX007678.D

Acq: 25 Feb 2019 17:13

Instrument :

MSVOA_X

ClientSampleId :

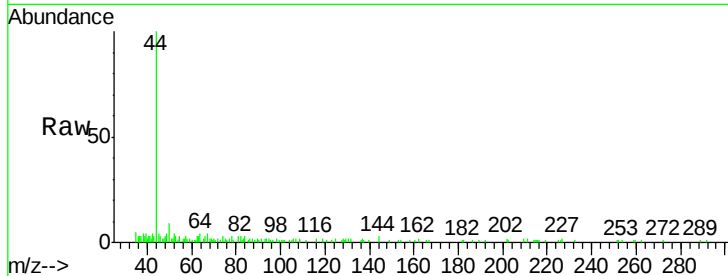
BP-VPB201-GW-240-242

Tot Ion: 50 Resp: 760

Ion Ratio Lower Upper

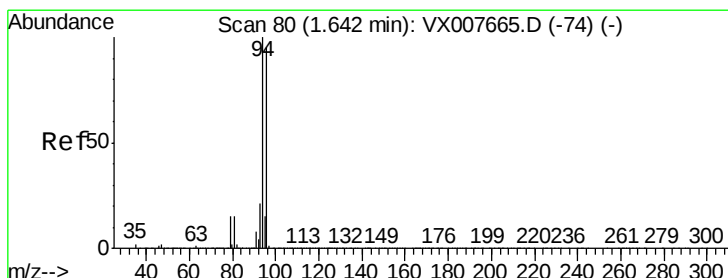
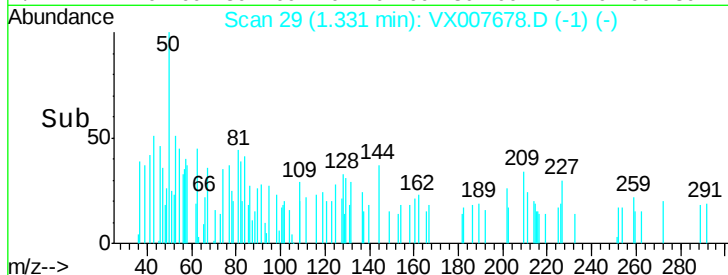
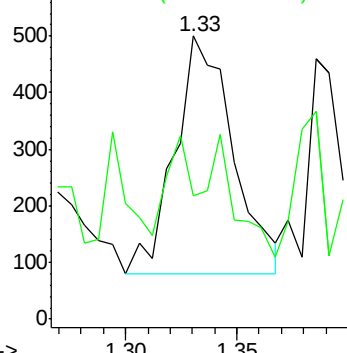
50 100

52 26.3 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX007678.D

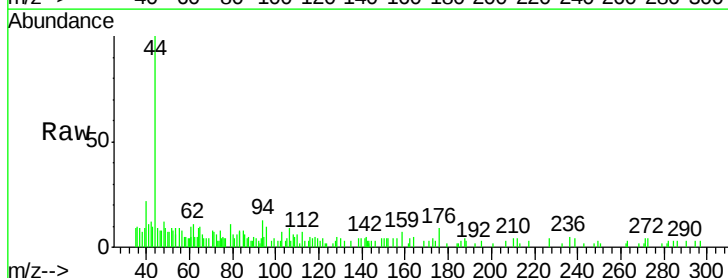
Acq: 25 Feb 2019 17:13

Tgt Ion: 94 Resp: 270

Ion Ratio Lower Upper

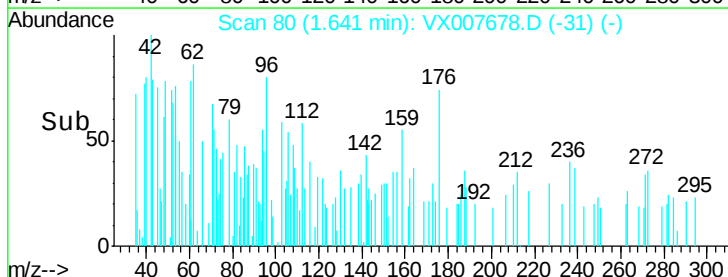
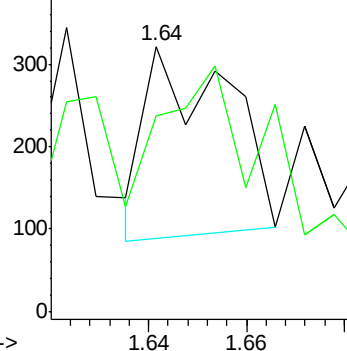
94 100

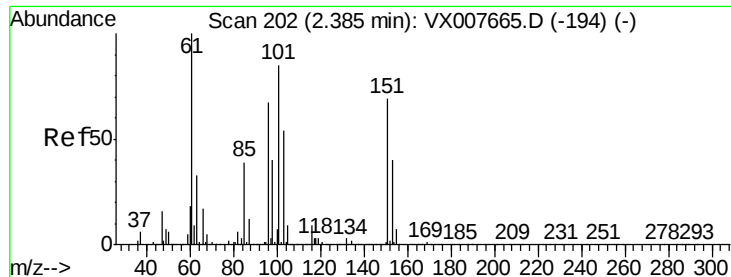
96 31.3 73.9 110.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 10.530 ug/l

RT: 2.39 min Scan# 202

Delta R.T. -0.00 min

Lab File: VX007678.D

Acq: 25 Feb 2019 17:13

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB201-GW-240-242

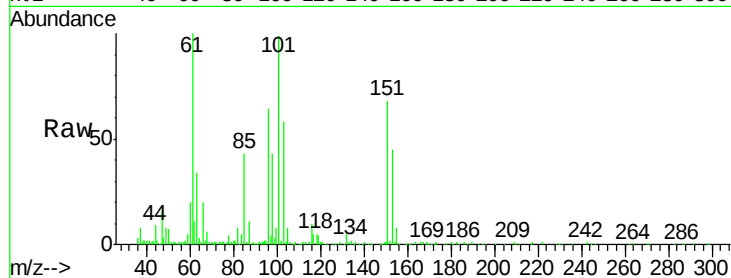
Tot Ion:101 Resp: 36319

Ion Ratio Lower Upper

101 100

85 44.5 34.1 51.1

151 77.5 69.9 104.9



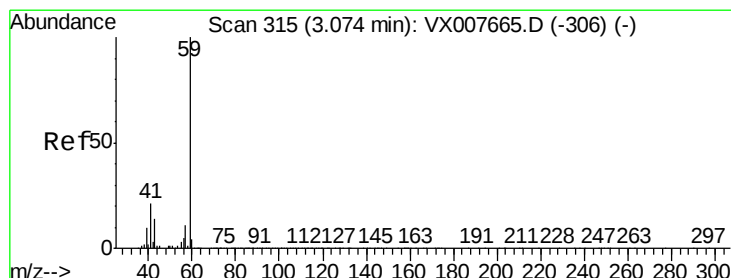
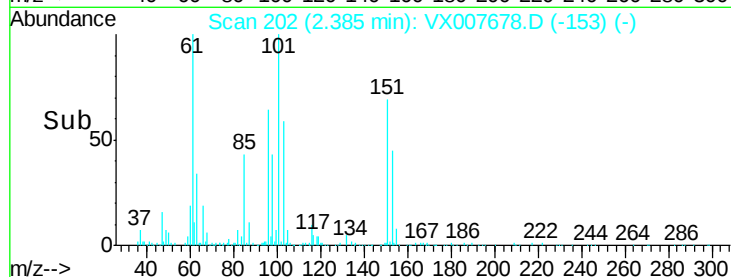
Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V

2.39

Time-->



#11

Tert butyl alcohol

Concen: 0.316 ug/l

RT: 3.09 min Scan# 318

Delta R.T. 0.02 min

Lab File: VX007678.D

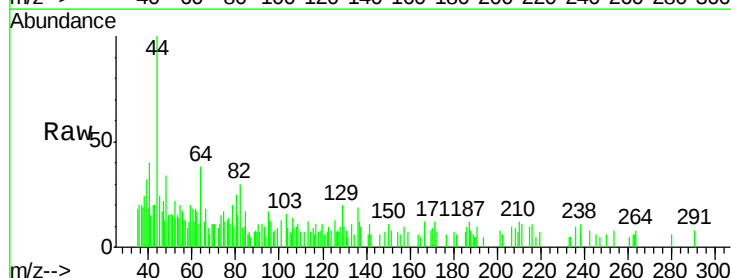
Acq: 25 Feb 2019 17:13

Tgt Ion: 59 Resp: 264

Ion Ratio Lower Upper

59 100

57 0.0 8.1 12.1#

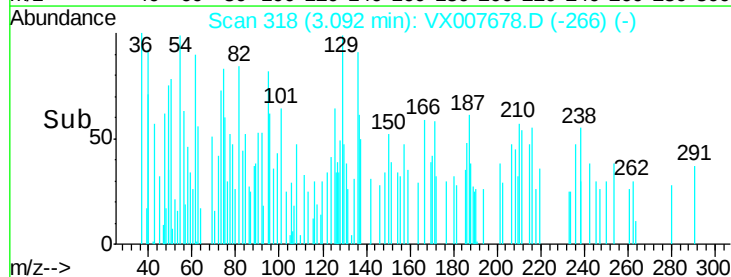


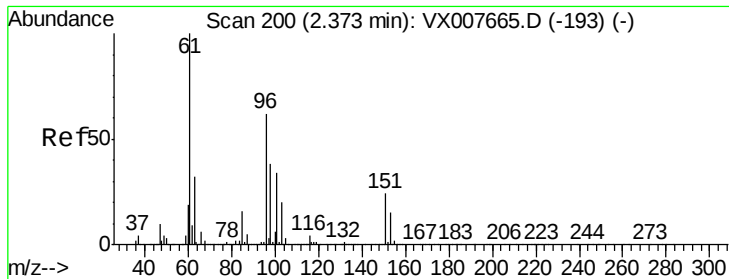
Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.09

Time-->





#12

1,1-Dichloroethene

Concen: 7.839 ug/l

RT: 2.38 min Scan# 201

Delta R.T. 0.01 min

Lab File: VX007678.D

Acq: 25 Feb 2019 17:13

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB201-GW-240-242

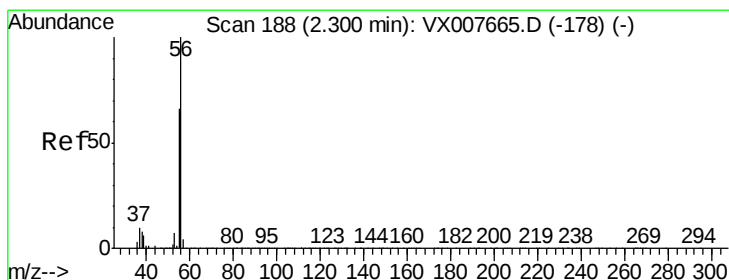
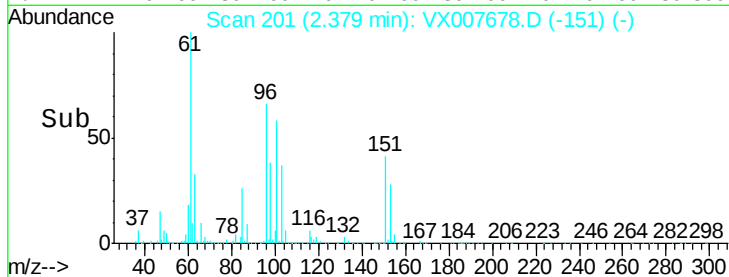
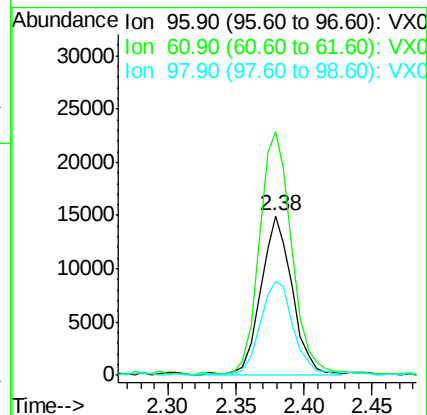
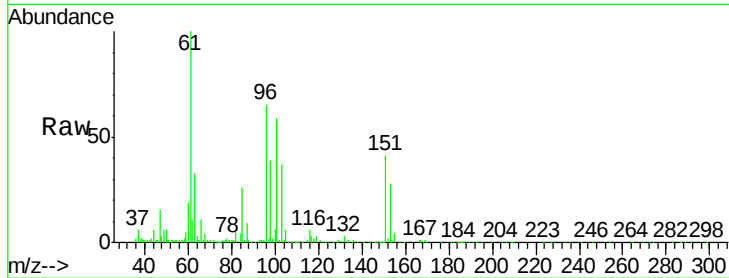
Tot Ion: 96 Resp: 24373

Ion Ratio Lower Upper

96 100

61 152.8 123.0 184.4

98 59.0 50.9 76.3



#13

Acrolein

Concen: 0.284 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.01 min

Lab File: VX007678.D

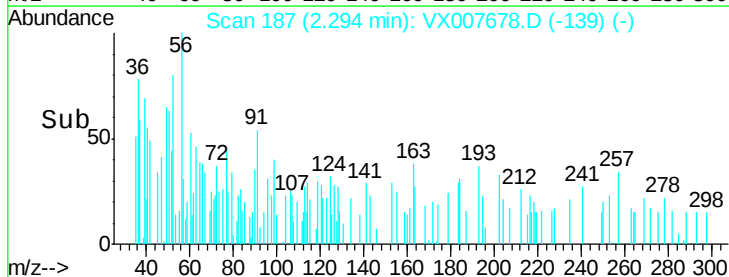
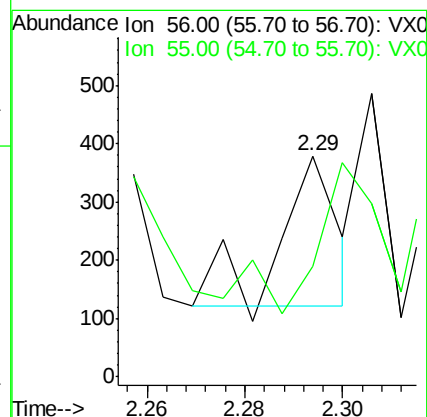
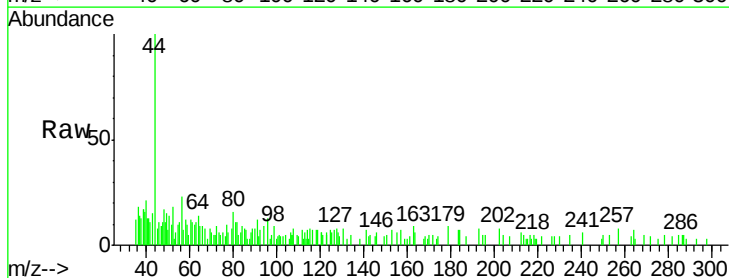
Acq: 25 Feb 2019 17:13

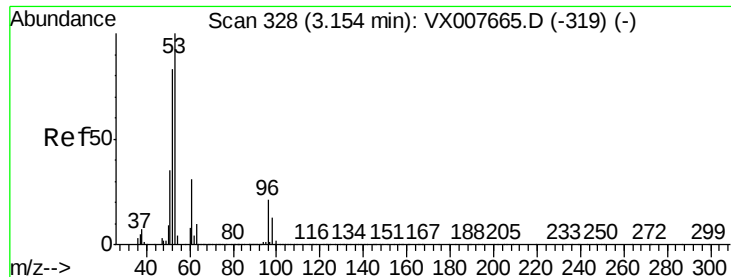
Tgt Ion: 56 Resp: 211

Ion Ratio Lower Upper

56 100

55 97.6 56.9 85.3#





#15

Acrylonitrile

Concen: 0.224 ug/l

RT: 3.16 min Scan# 329

Delta R.T. 0.01 min

Lab File: VX007678.D

Acq: 25 Feb 2019 17:13

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB201-GW-240-242

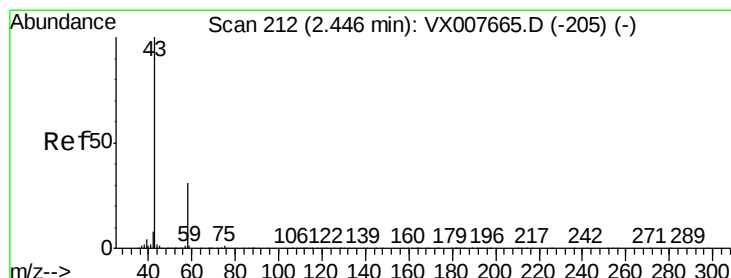
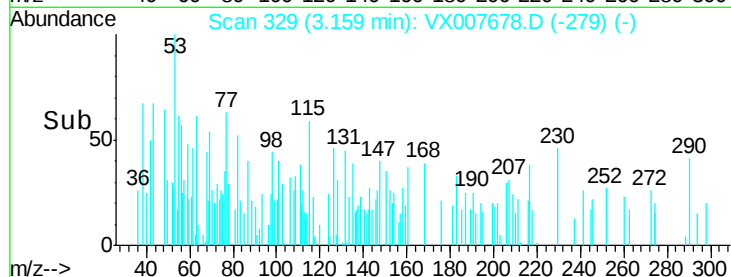
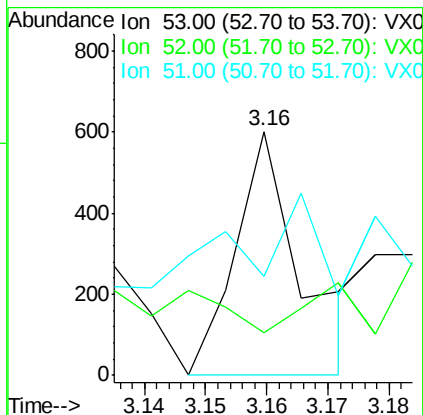
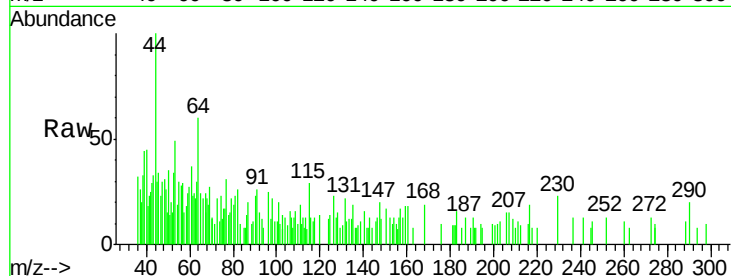
Tot Ion: 53 Resp: 441

Ion Ratio Lower Upper

53 100

52 0.0 66.4 99.6#

51 20.2 28.4 42.6#



#16

Acetone

Concen: 4.162 ug/l

RT: 2.45 min Scan# 213

Delta R.T. 0.01 min

Lab File: VX007678.D

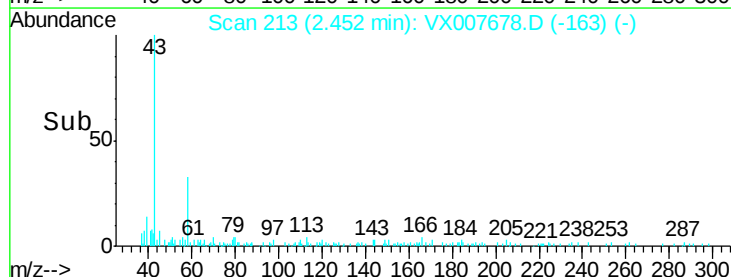
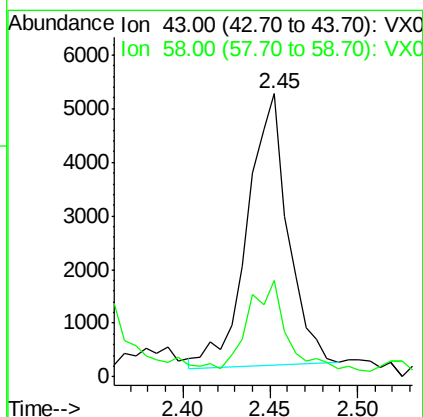
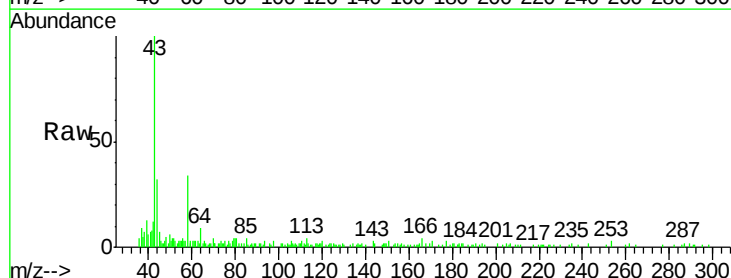
Acq: 25 Feb 2019 17:13

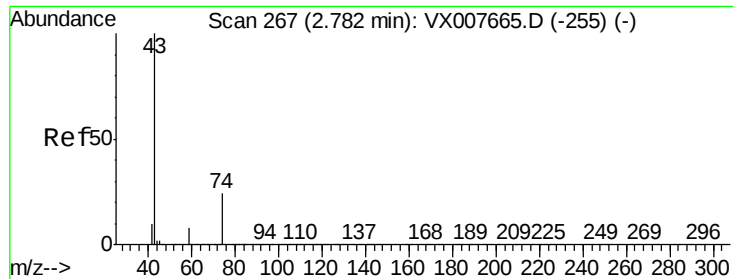
Tgt Ion: 43 Resp: 8148

Ion Ratio Lower Upper

43 100

58 32.9 24.9 37.3

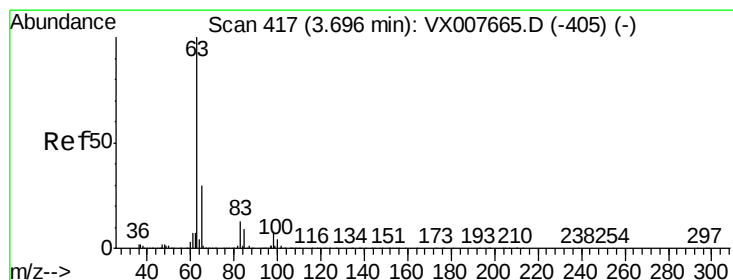
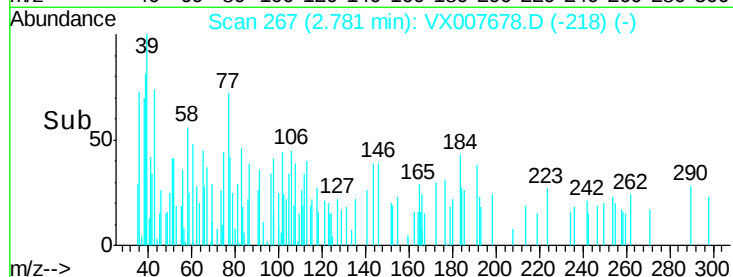
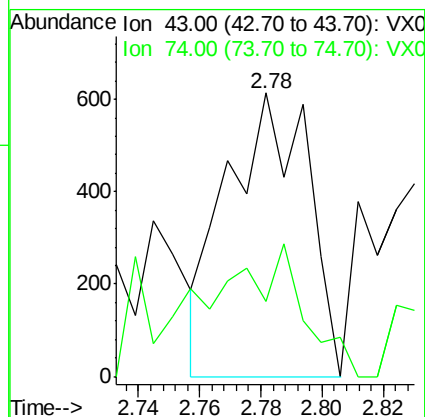
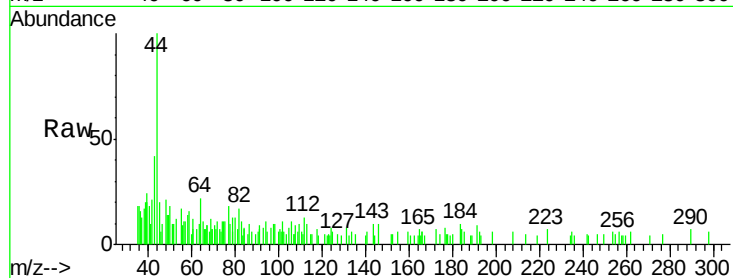




#18
Methvl Acetate
Concen: 0.264 ug/l
RT: 2.78 min Scan# 267
Delta R.T. -0.00 min
Lab File: VX007678.D
Acq: 25 Feb 2019 17:13

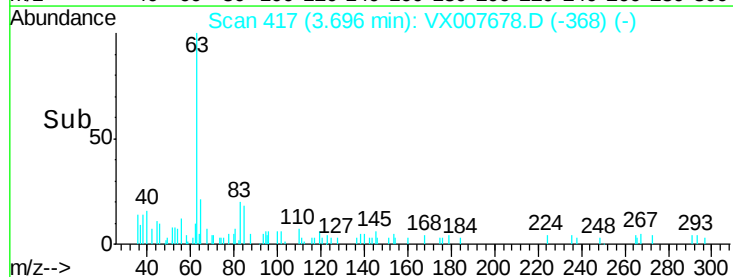
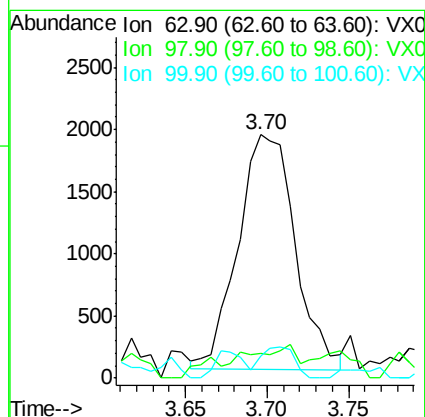
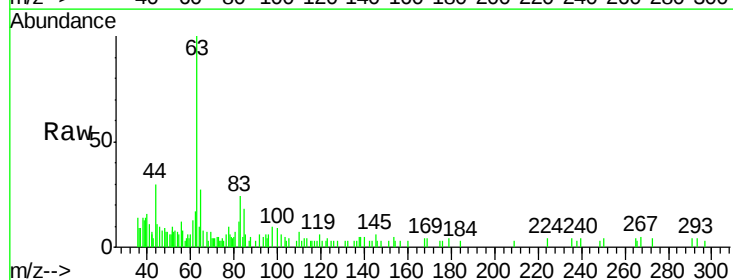
Instrument :
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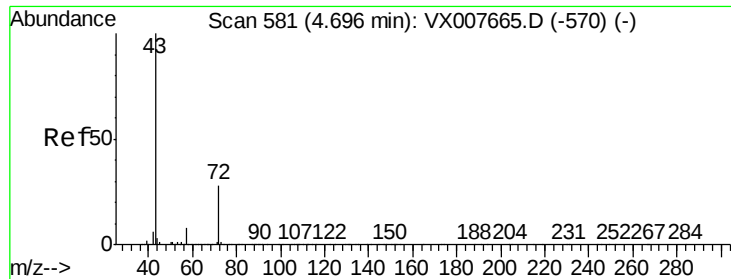
Tot Ion: 43 Resp: 1127
Ion Ratio Lower Upper
43 100
74 48.9 19.4 29.2#



#24
1,1-Dichloroethane
Concen: 0.709 ug/l
RT: 3.70 min Scan# 417
Delta R.T. -0.00 min
Lab File: VX007678.D
Acq: 25 Feb 2019 17:13

Tgt Ion: 63 Resp: 4613
Ion Ratio Lower Upper
63 100
98 5.5 3.6 10.8
100 10.3 2.5 7.4#





#25

2-Butanone

Concen: 0.727 ug/l

RT: 4.71 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX007678.D

Acq: 25 Feb 2019 17:13

Instrument :

MSVOA_X

ClientSampleId :

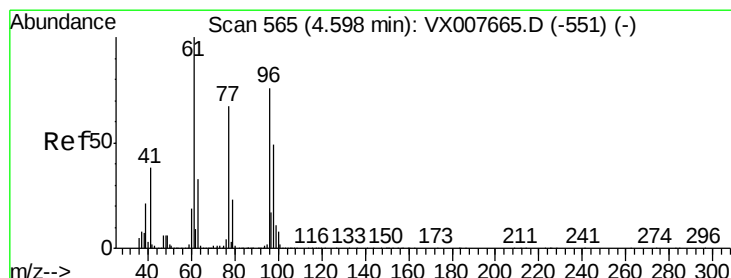
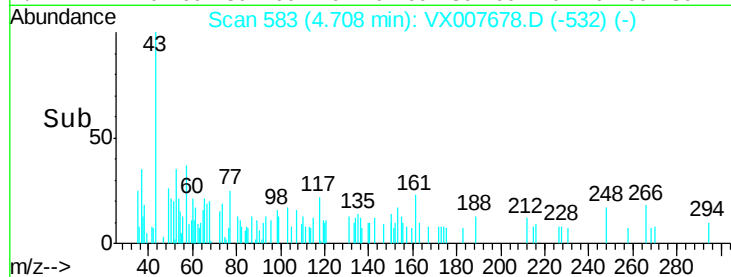
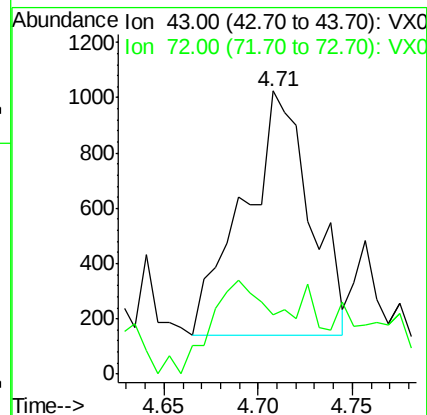
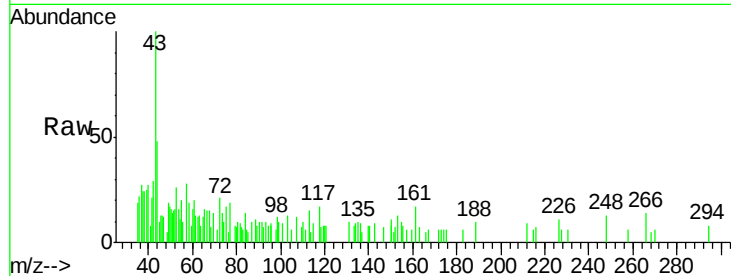
BP-VPB201-GW-240-242

Tot Ion: 43 Resp: 2169

Ion Ratio Lower Upper

43 100

72 12.4 22.2 33.2#



#27

cis-1,2-Dichloroethene

Concen: 0.861 ug/l

RT: 4.60 min Scan# 566

Delta R.T. 0.01 min

Lab File: VX007678.D

Acq: 25 Feb 2019 17:13

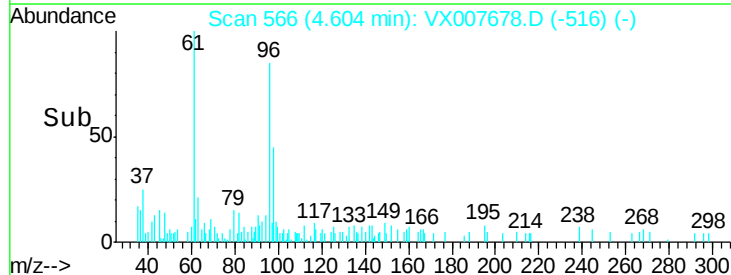
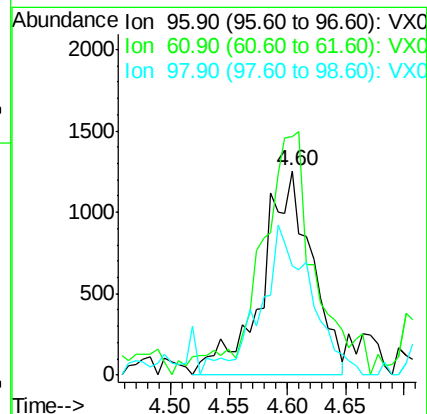
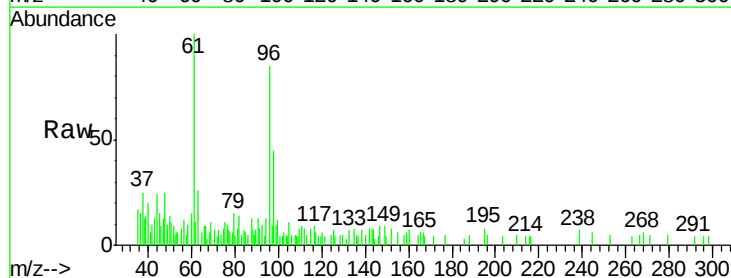
Tgt Ion: 96 Resp: 3702

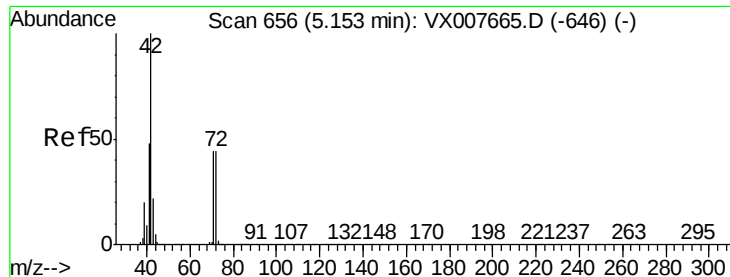
Ion Ratio Lower Upper

96 100

61 110.4 0.0 265.6

98 73.0 0.0 131.6

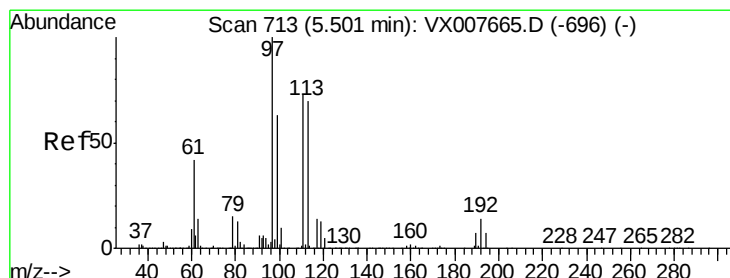
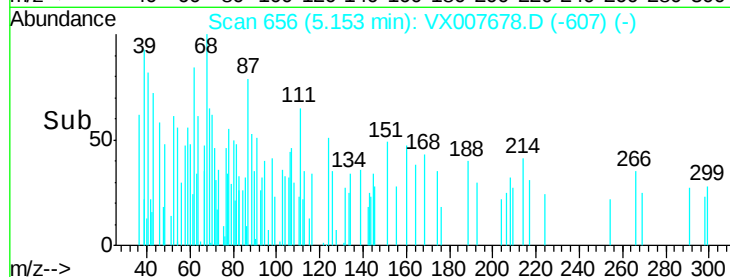
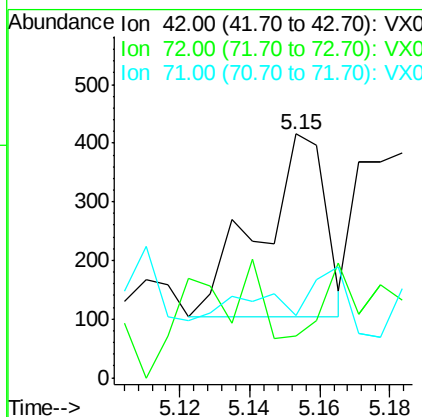
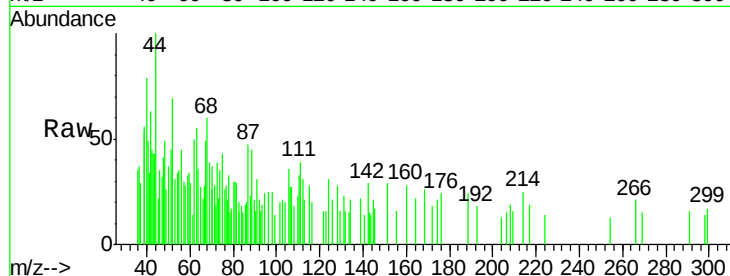




#29
Tetrahydrofuran
Concen: 0.206 ug/l
RT: 5.15 min Scan# 656
Delta R.T. -0.00 min
Lab File: VX007678.D
Acq: 25 Feb 2019 17:13

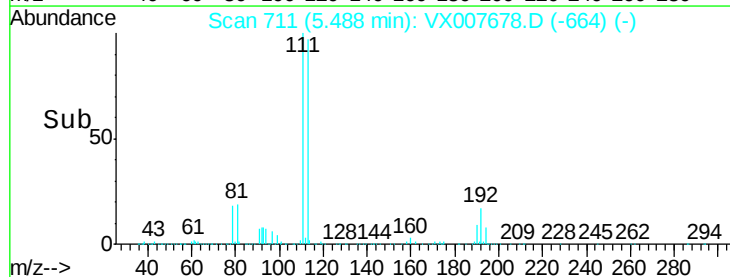
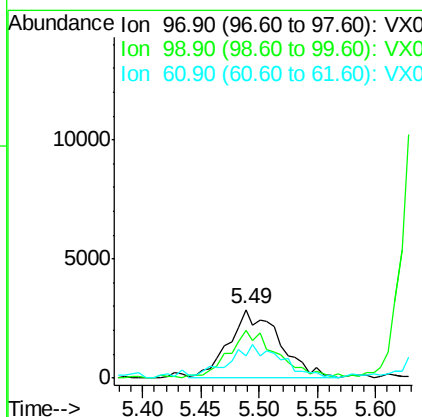
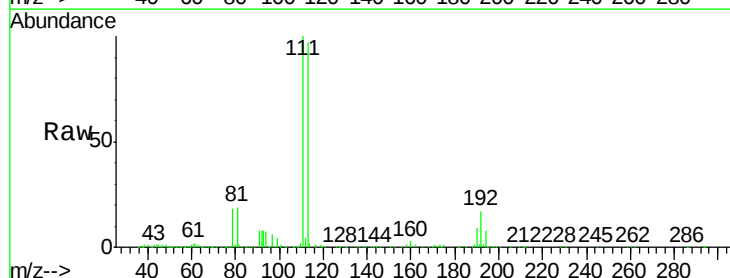
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB201-GW-240-242

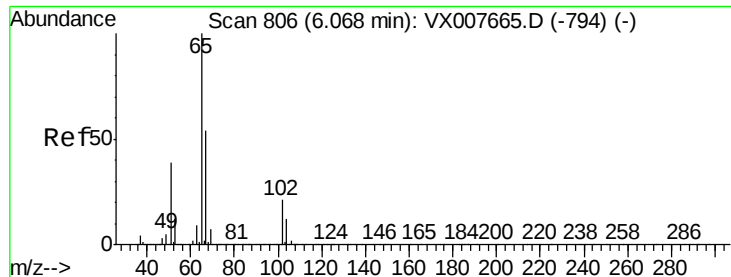
Tot Ion: 42 Resp: 404
Ion Ratio Lower Upper
42 100
72 22.8 37.6 56.4#
71 46.8 34.6 51.8



#32
1,1,1-Trichloroethane
Concen: 1.494 ug/l
RT: 5.49 min Scan# 711
Delta R.T. -0.01 min
Lab File: VX007678.D
Acq: 25 Feb 2019 17:13

Tgt Ion: 97 Resp: 8610
Ion Ratio Lower Upper
97 100
99 67.3 52.2 78.2
61 51.3 32.7 49.1#





#33

1,2-Dichloroethane-d4

Concen: 48.420 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX007678.D

Acq: 25 Feb 2019 17:13

Instrument :

MSVOA_X

ClientSampleId :

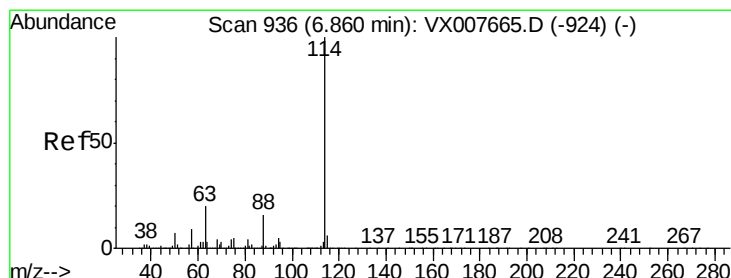
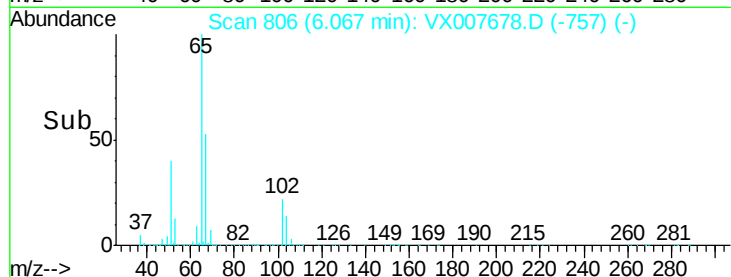
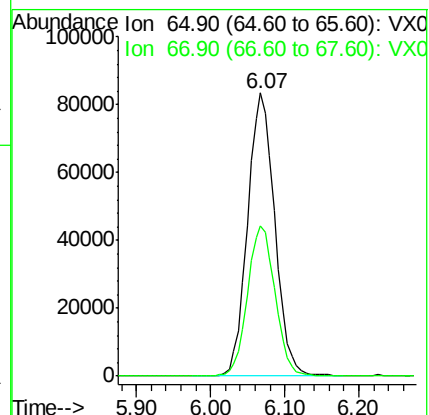
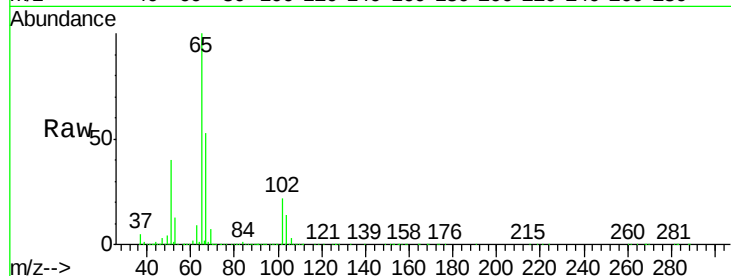
BP-VPB201-GW-240-242

Tot Ion: 65 Resp: 213185

Ion Ratio Lower Upper

65 100

67 53.9 0.0 108.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX007678.D

Acq: 25 Feb 2019 17:13

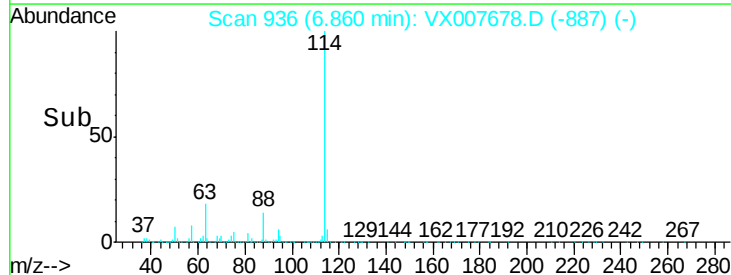
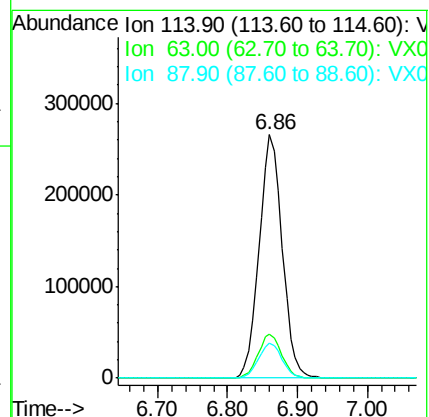
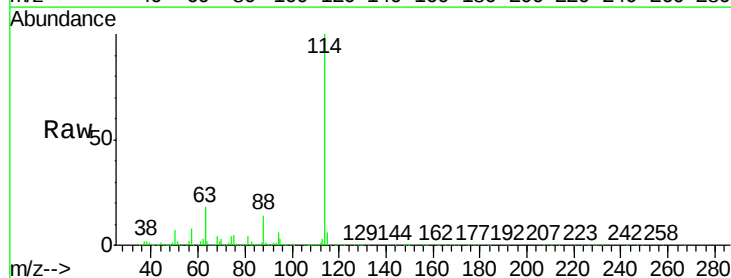
Tgt Ion: 114 Resp: 609533

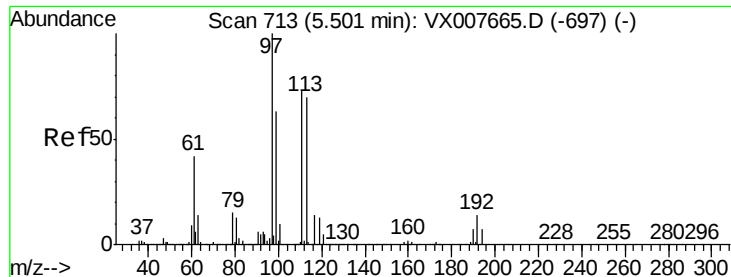
Ion Ratio Lower Upper

114 100

63 18.2 0.0 35.6

88 14.3 0.0 29.6





#35

Dibromofluoromethane

Concen: 48.472 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX007678.D

Acq: 25 Feb 2019 17:13

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB201-GW-240-242

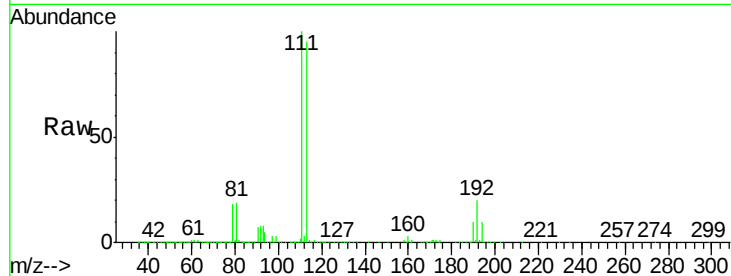
Tot Ion:113 Resp: 197501

Ion Ratio Lower Upper

113 100

111 102.1 81.8 122.8

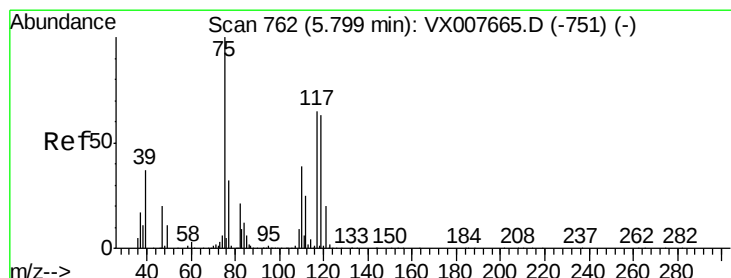
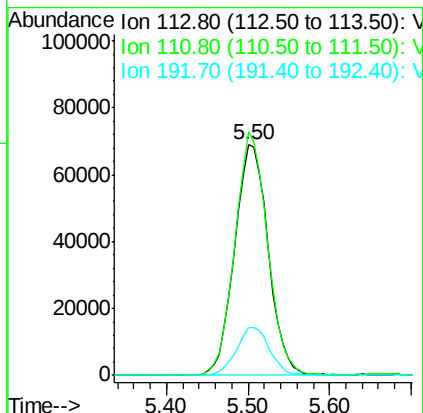
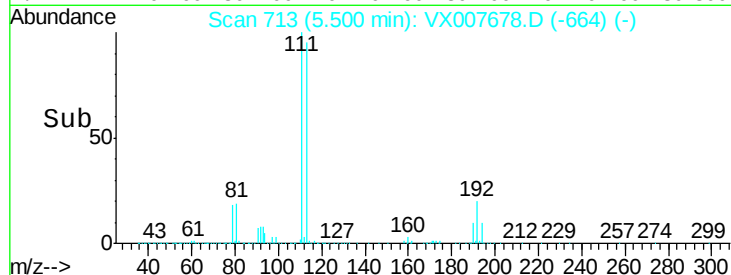
192 20.5 18.5 27.7



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: 4.477 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX007678.D

Acq: 25 Feb 2019 17:13

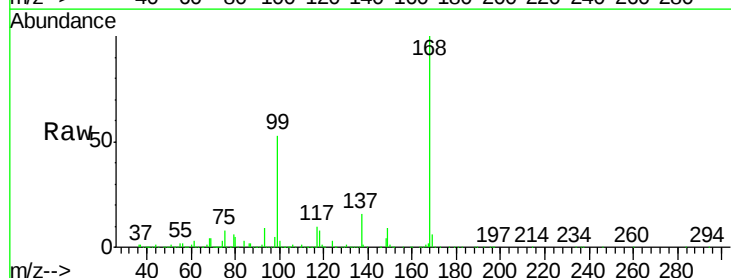
Tgt Ion: 75 Resp: 24532

Ion Ratio Lower Upper

75 100

110 12.1 20.0 59.9#

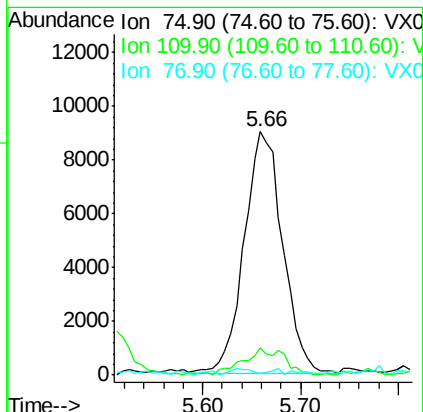
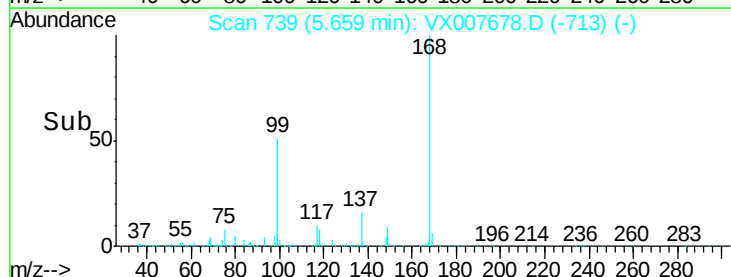
77 0.8 24.7 37.1#

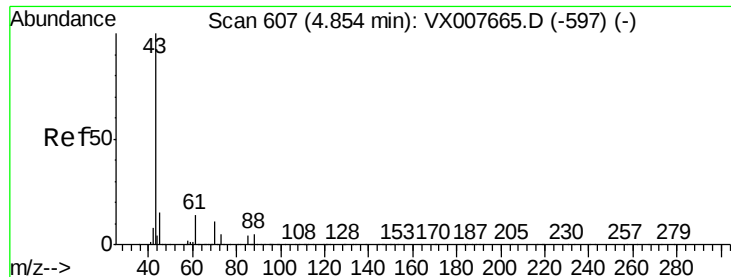


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

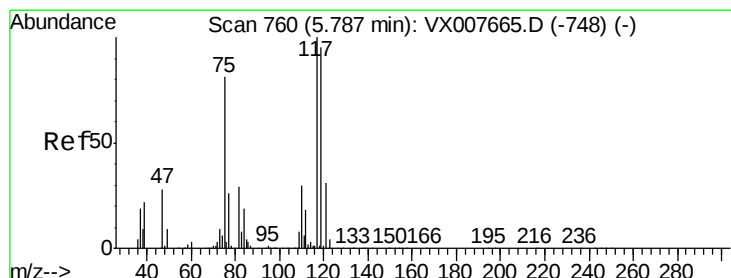
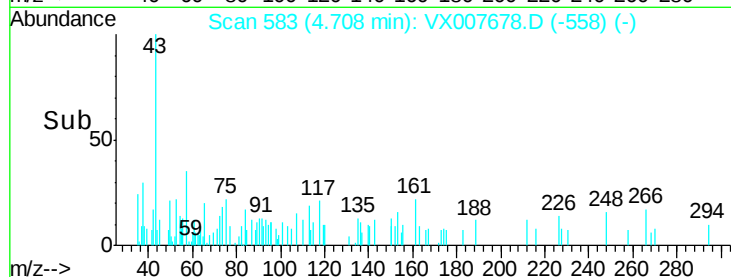
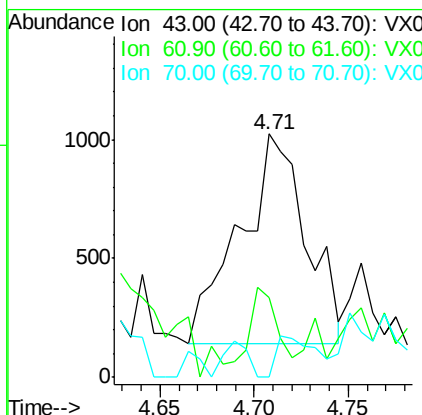
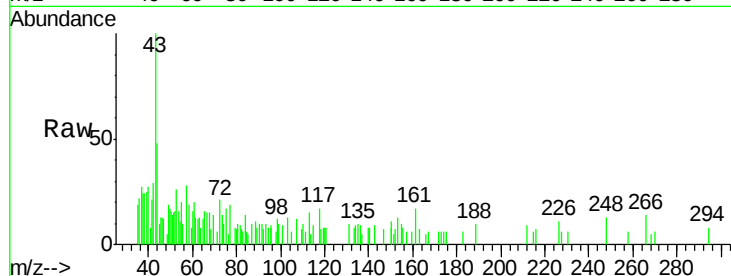




#37
Ethyl Acetate
Concen: 0.356 ug/l
RT: 4.71 min Scan# 583
Delta R.T. -0.15 min
Lab File: VX007678.D
Acq: 25 Feb 2019 17:13

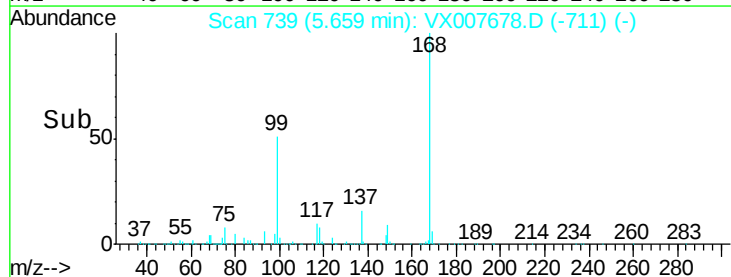
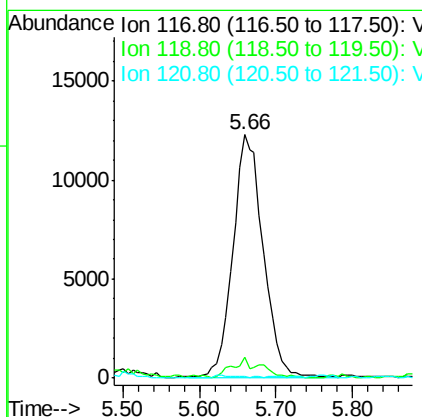
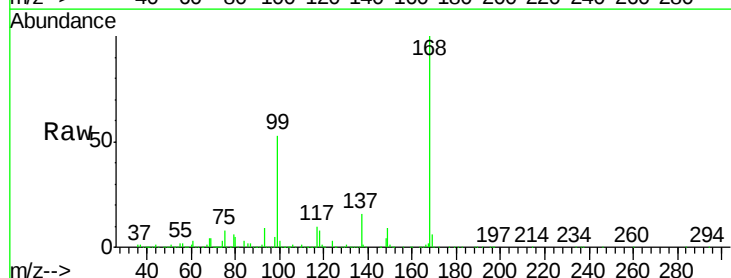
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB201-GW-240-242

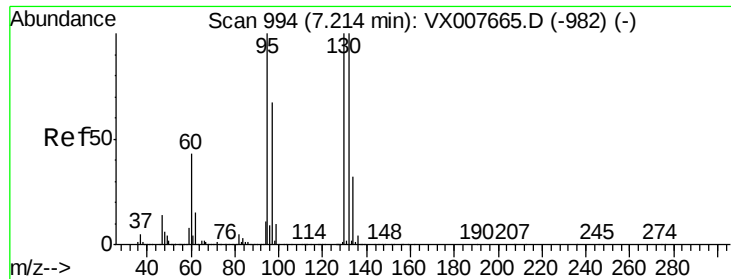
Tot Ion	Ratio	Lower	Upper
43	100		
61	13.4	11.3	16.9
70	11.2	8.6	13.0



#38
Carbon Tetrachloride
Concen: 6.148 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.13 min
Lab File: VX007678.D
Acq: 25 Feb 2019 17:13

Tgt Ion	Ratio	Lower	Upper
117	100		
119	7.5	75.3	112.9#
121	0.5	25.0	37.4#





#44

Trichloroethene

Concen: 76.274 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX007678.D

Acq: 25 Feb 2019 17:13

Instrument :

MSVOA_X

ClientSampleId :

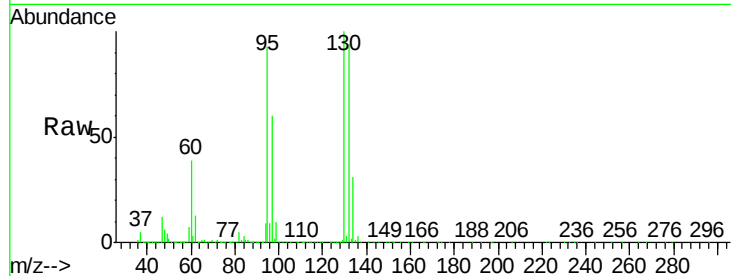
BP-VPB201-GW-240-242

Tot Ion:130 Resp: 354939

Ion Ratio Lower Upper

130 100

95 93.3 0.0 180.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

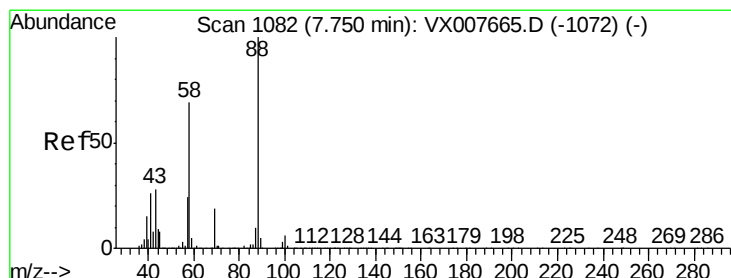
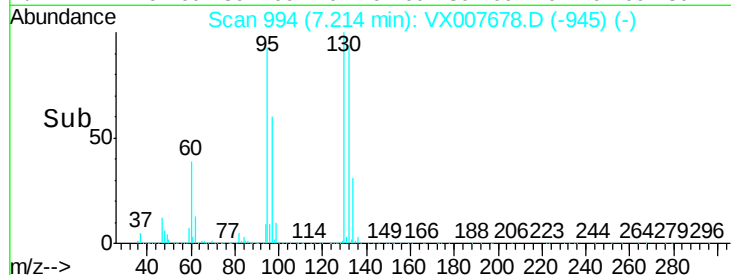
150000

100000

50000

0

Time-->



#49

1,4-Dioxane

Concen: 8.495 ug/l

RT: 7.76 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VX007678.D

Acq: 25 Feb 2019 17:13

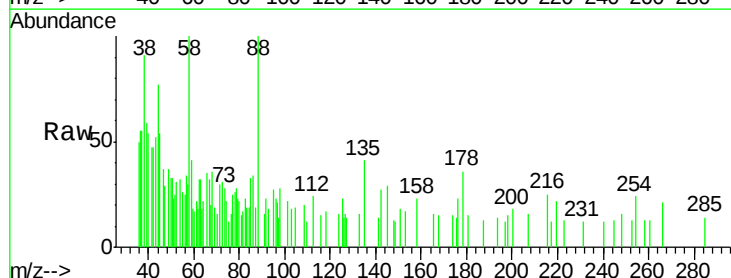
Tgt Ion: 88 Resp: 901

Ion Ratio Lower Upper

88 100

43 14.9 24.2 36.4#

58 100.3 53.0 79.4#



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

7.76

600

500

400

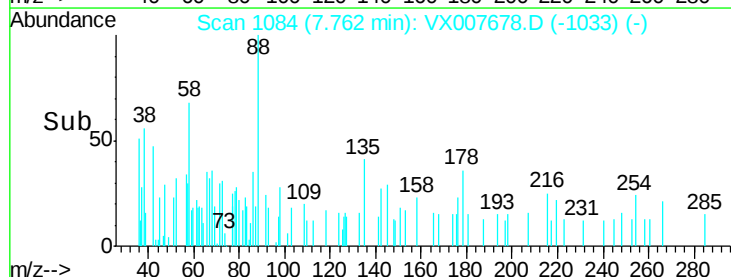
300

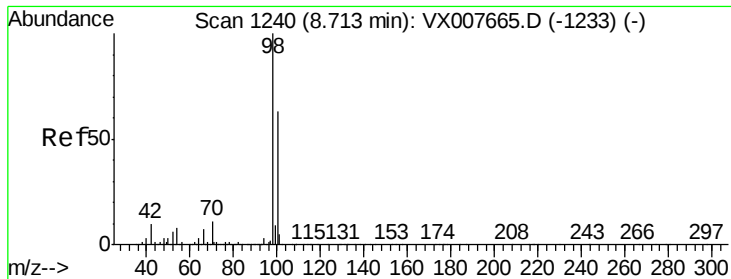
200

100

0

Time-->





#50

Toluene-d8

Concen: 46.601 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007678.D

Acq: 25 Feb 2019 17:13

Instrument :

MSVOA_X

ClientSampleId :

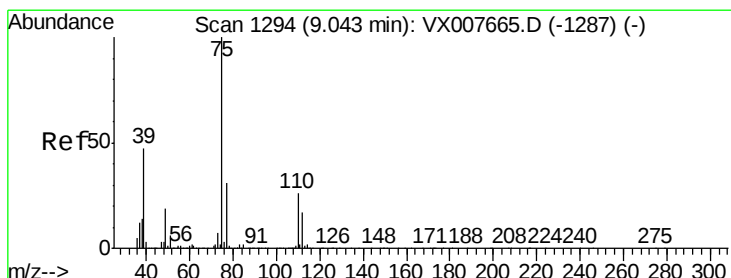
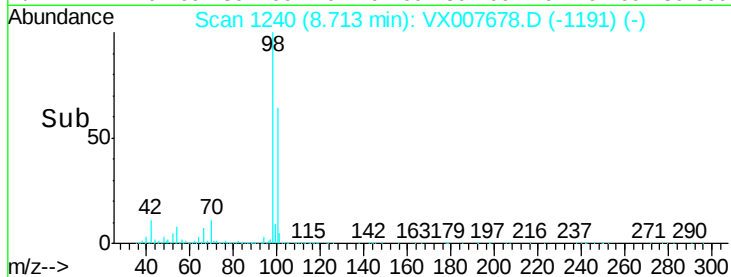
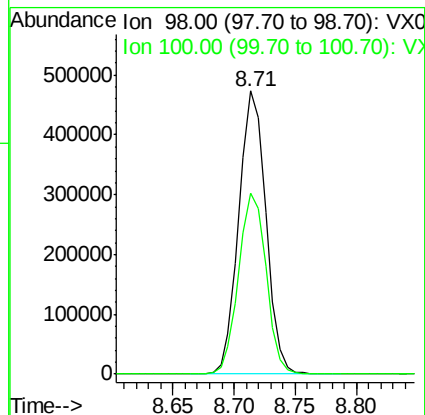
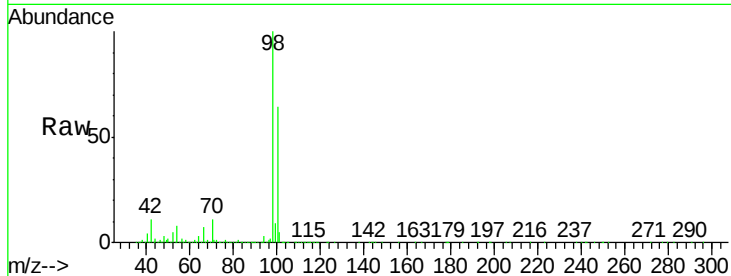
BP-VPB201-GW-240-242

Tot Ion: 98 Resp: 726919

Ion Ratio Lower Upper

98 100

100 65.1 51.6 77.4



#53

t-1,3-Dichloropropene

Concen: 2.816 ug/l

RT: 9.04 min Scan# 1294

Delta R.T. 0.00 min

Lab File: VX007678.D

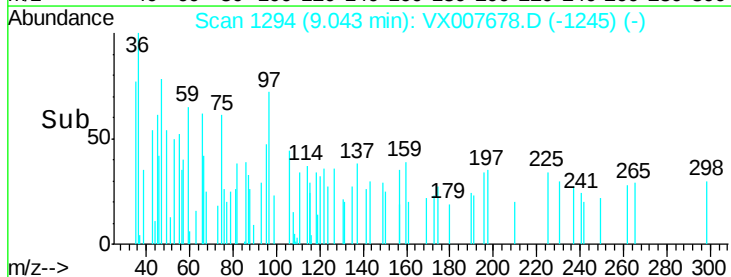
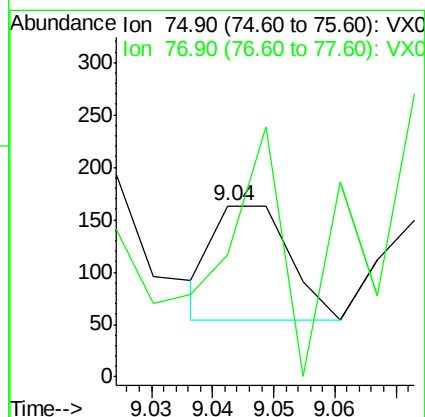
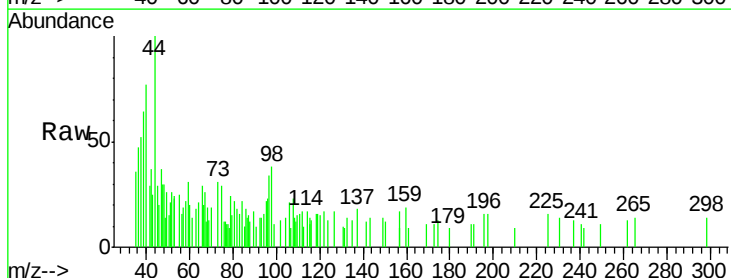
Acq: 25 Feb 2019 17:13

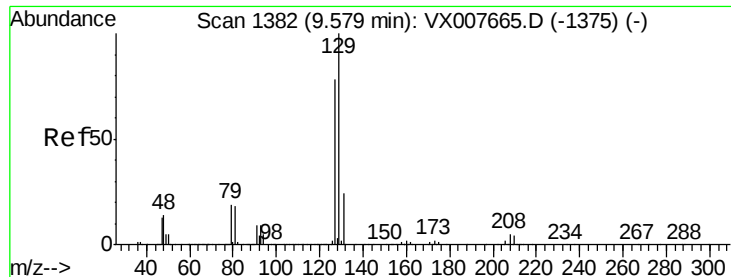
Tgt Ion: 75 Resp: 93

Ion Ratio Lower Upper

75 100

77 52.1 25.2 37.8#





#60

Dibromochloromethane

Concen: 16.499 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX007678.D

Acq: 25 Feb 2019 17:13

Instrument :

MSVOA_X

ClientSampleId :

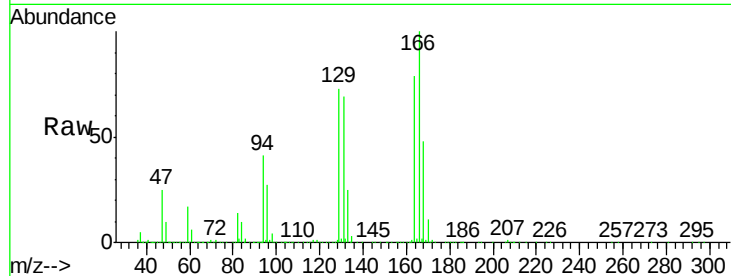
BP-VPB201-GW-240-242

Tot Ion:129 Resp: 70620

Ion Ratio Lower Upper

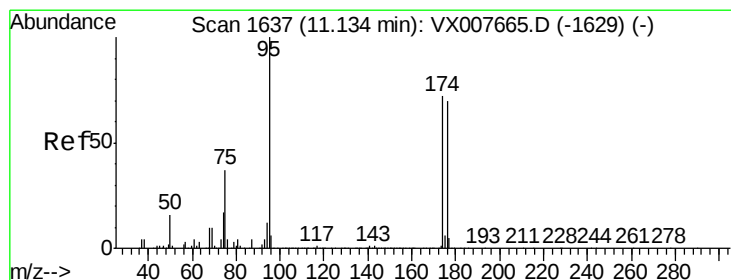
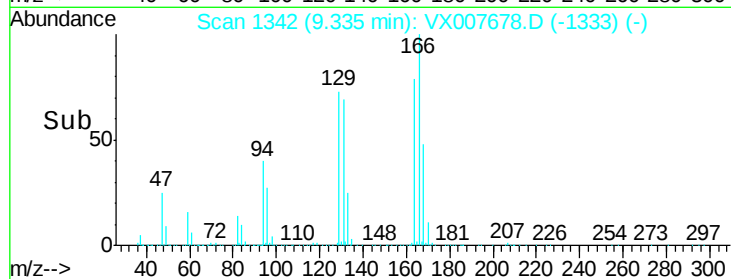
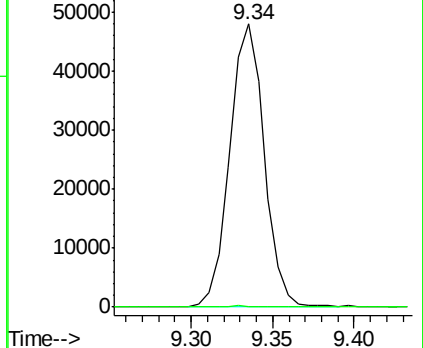
129 100

127 0.4 37.8 113.4#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 44.378 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX007678.D

Acq: 25 Feb 2019 17:13

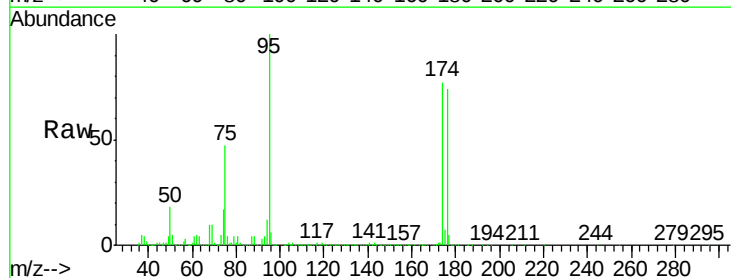
Tgt Ion: 95 Resp: 254081

Ion Ratio Lower Upper

95 100

174 84.2 0.0 189.2

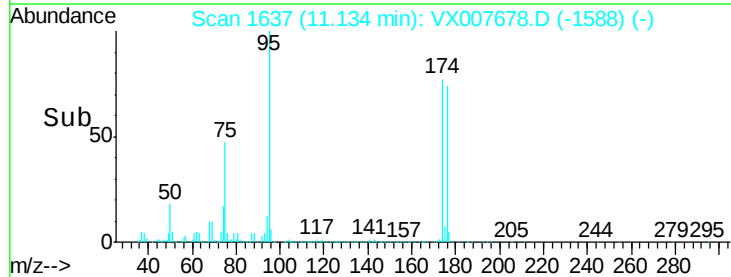
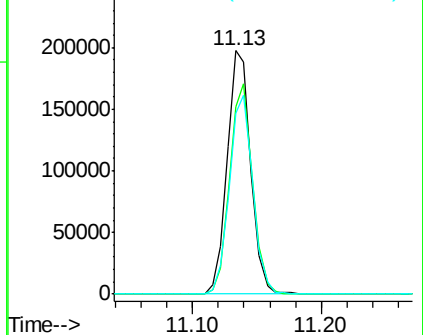
176 81.1 0.0 186.2

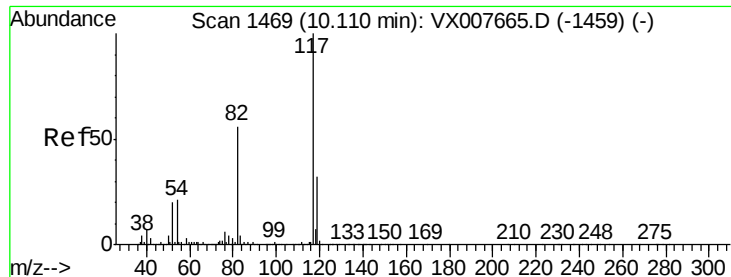


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

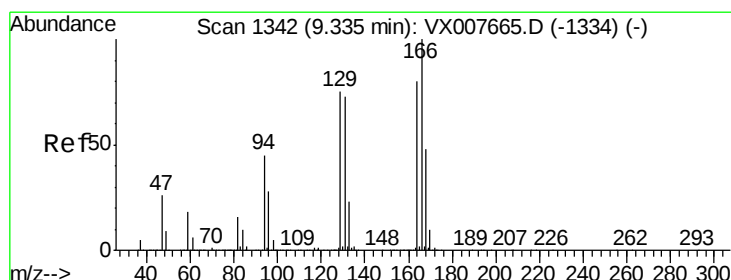
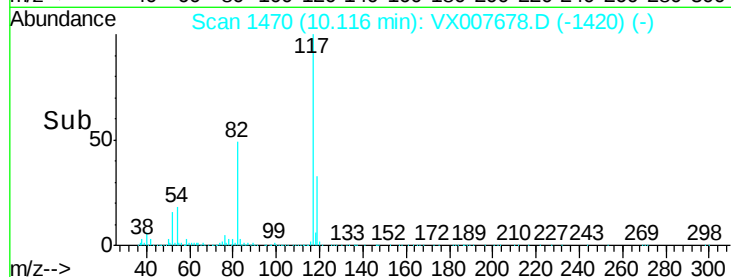
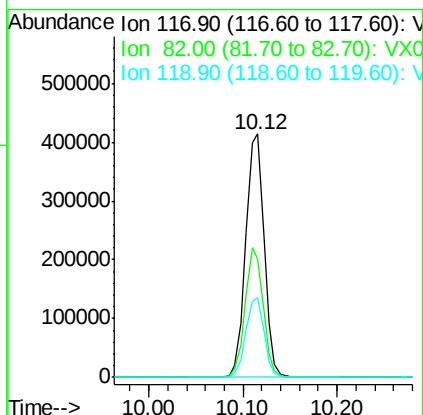
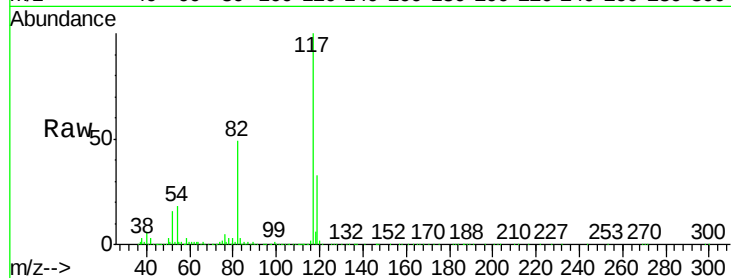




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX007678.D
Acq: 25 Feb 2019 17:13

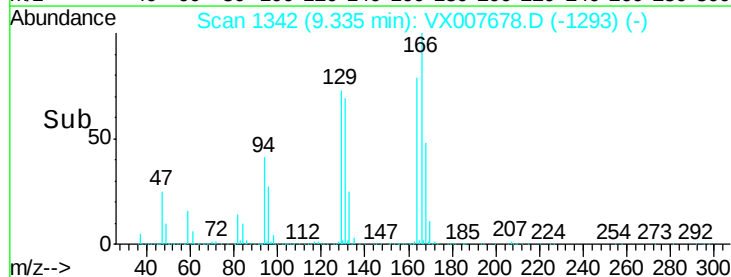
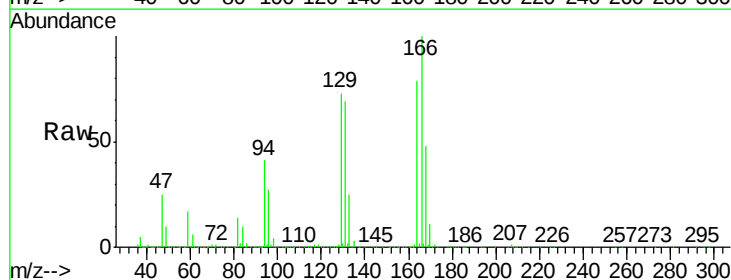
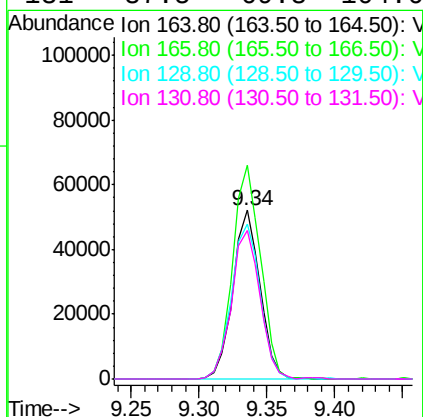
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB201-GW-240-242

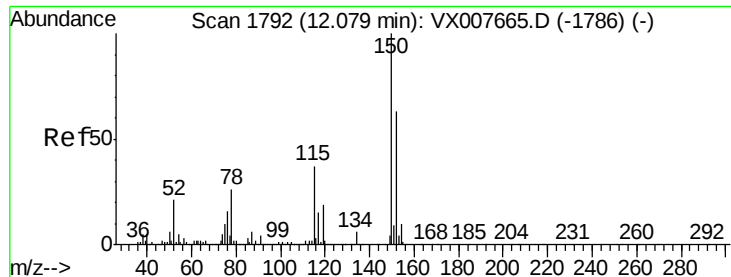
Tot Ion	Ratio	Lower	Upper
117	100		
82	48.6	42.1	63.1
119	32.5	26.5	39.7



#64
Tetrachloroethene
Concen: 15.769 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX007678.D
Acq: 25 Feb 2019 17:13

Tgt Ion	Ratio	Lower	Upper
164	100		
166	126.3	101.0	151.4
129	92.0	70.5	105.7
131	87.5	69.8	104.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX007678.D

Acq: 25 Feb 2019 17:13

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB201-GW-240-242

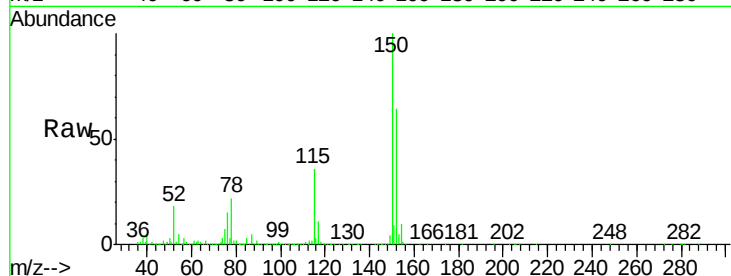
Tot Ion:152 Resp: 253090

Ion Ratio Lower Upper

152 100

115 58.1 38.0 114.0

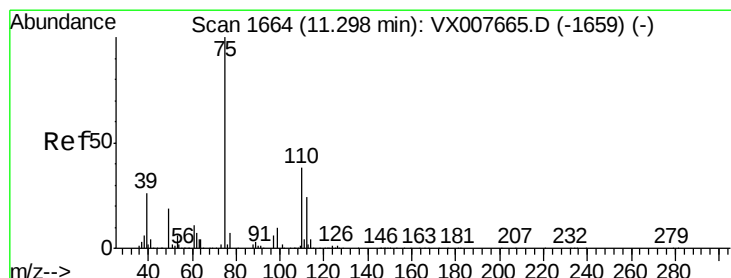
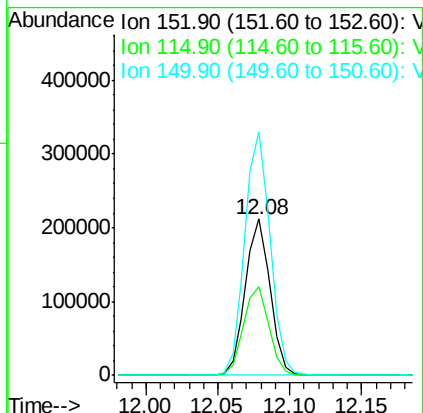
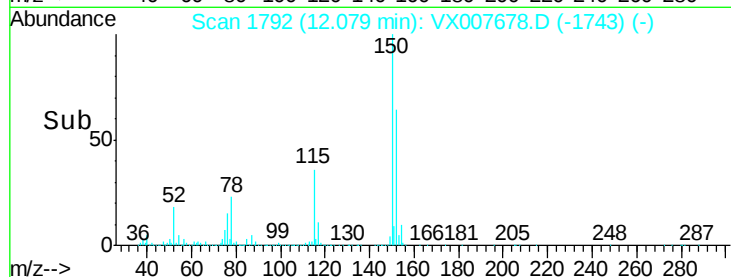
150 158.4 0.0 346.4



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: 22.322 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007678.D

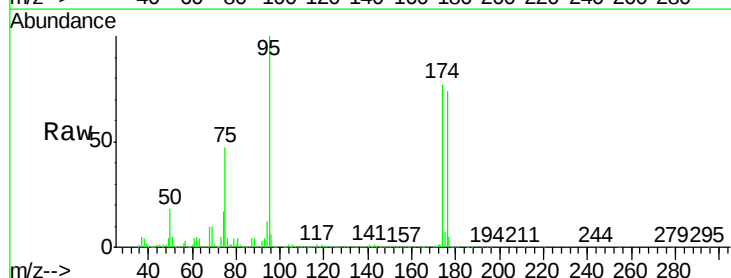
Acq: 25 Feb 2019 17:13

Tgt Ion: 75 Resp: 120420

Ion Ratio Lower Upper

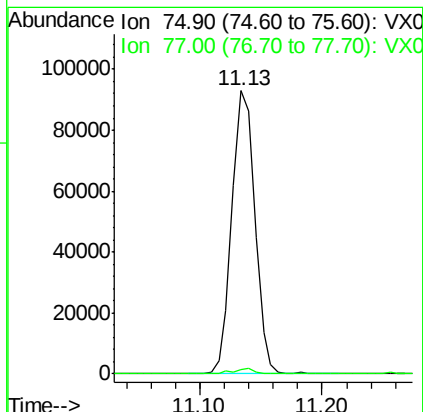
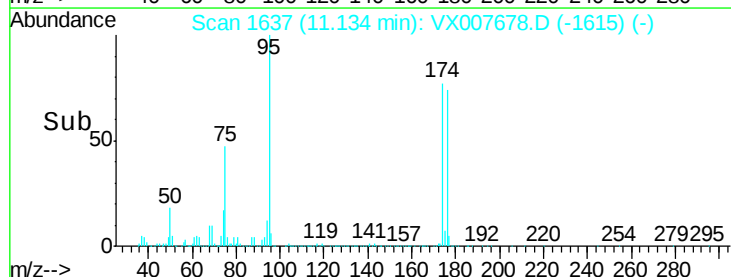
75 100

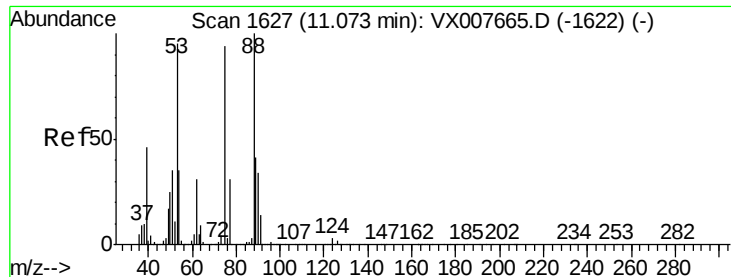
77 1.9 23.0 69.0#



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: 59.225 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007678.D

Acq: 25 Feb 2019 17:13

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB201-GW-240-242

Tot Ion: 75 Resp: 120420

Ion Ratio Lower Upper

75 100

53 0.5 81.0 121.6#

89 0.0 41.4 62.0#

