

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX022519\
 Data File : VX007683.D
 Acq On : 25 Feb 2019 19:26
 Operator : JC/SP
 Sample : K1578-11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB201-GW-320-322

Quant Time: Feb 26 02:24:35 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	350508	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	599735	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	560755	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	251890	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	211075	48.62	ug/l	0.00
Spiked Amount			Recovery	=	97.24%	
35) Dibromofluoromethane	5.51	113	197749	49.33	ug/l	0.00
Spiked Amount			Recovery	=	98.66%	
50) Toluene-d8	8.71	98	719578	46.88	ug/l	0.00
Spiked Amount			Recovery	=	93.76%	
62) 4-Bromofluorobenzene	11.13	95	249159	44.23	ug/l	0.00
Spiked Amount			Recovery	=	88.46%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	731	0.226	ug/l	90
5) Bromomethane	1.65	94	773	Below Cal	#	25
7) Trichlorofluoromethane	1.94	101	4295	0.763	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.39	101	1170	0.344	ug/l	92
10) Methyl Iodide	2.52	142	880	0.208	ug/l #	32
11) Tert butyl alcohol	3.02	59	1604	1.947	ug/l #	93
12) 1,1-Dichloroethene	2.38	96	1302	0.425	ug/l #	58
13) Acrolein	2.29	56	330	0.451	ug/l #	69
16) Acetone	2.45	43	11474	5.943	ug/l	99
17) Carbon Disulfide	2.57	76	2148	0.252	ug/l #	78
18) Methyl Acetate	2.78	43	2053	0.487	ug/l	99
19) Methyl tert-butyl Ether	3.20	73	2510	0.235	ug/l #	76
25) 2-Butanone	4.71	43	4405	1.498	ug/l #	77
29) Tetrahydrofuran	4.92	42	429	0.221	ug/l	92
36) 1,1-Dichloropropene	5.78	75	1103	0.205	ug/l #	54
38) Carbon Tetrachloride	5.67	117	32282	5.960	ug/l #	17
44) Trichloroethene	7.21	130	4032	0.881	ug/l	69
49) 1,4-Dioxane	7.77	88	340	3.258	ug/l #	33
51) 4-Methyl-2-Pentanone	8.65	43	1242	0.201	ug/l #	63
53) t-1,3-Dichloropropene	9.04	75	285	2.844	ug/l #	1
64) Tetrachloroethene	9.34	164	4741	1.041	ug/l	90
76) 1,2,3-Trichloropropane	11.13	75	120895	22.517	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	120895	59.716	ug/l #	9

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX007683.D

Acq: 25 Feb 2019 19:26

Instrument :

MSVOA_X

ClientSampleId :

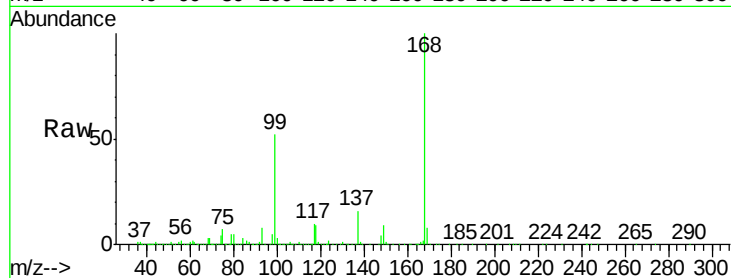
BP-VPB201-GW-320-322

Tot Ion:168 Resp: 350508

Ion Ratio Lower Upper

168 100

99 51.6 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

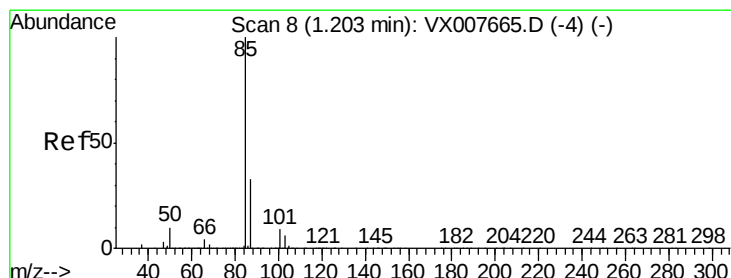
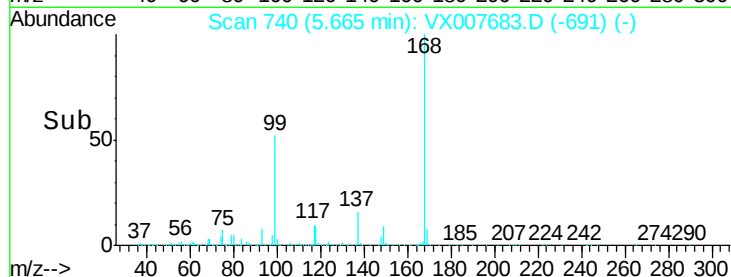
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.226 ug/l

RT: 1.20 min Scan# 8

Delta R.T. -0.00 min

Lab File: VX007683.D

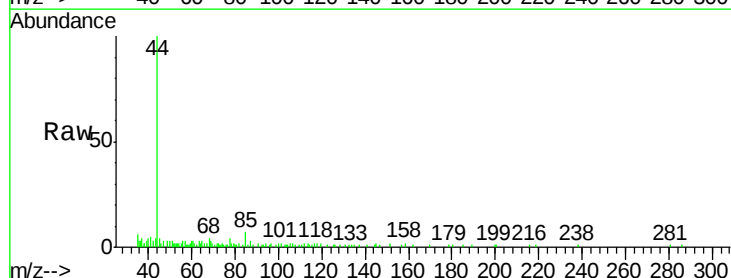
Acq: 25 Feb 2019 19:26

Tgt Ion: 85 Resp: 731

Ion Ratio Lower Upper

85 100

87 37.3 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

500

400

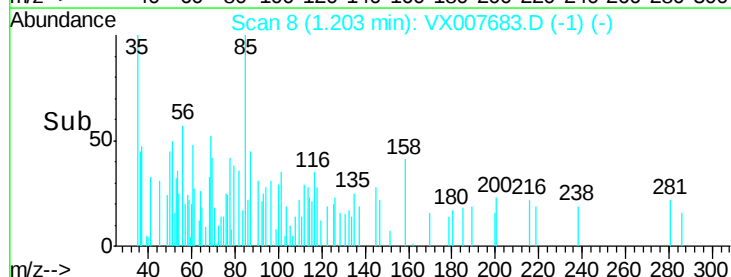
300

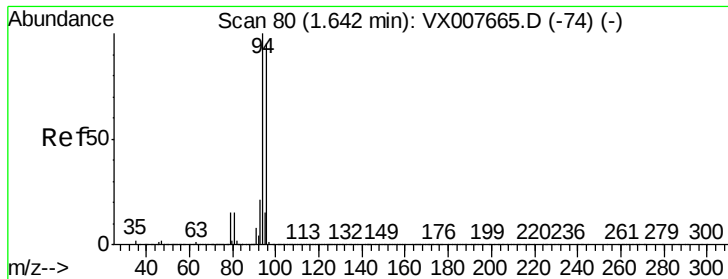
200

100

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX007683.D

Acq: 25 Feb 2019 19:26

Instrument :

MSVOA_X

ClientSampleId :

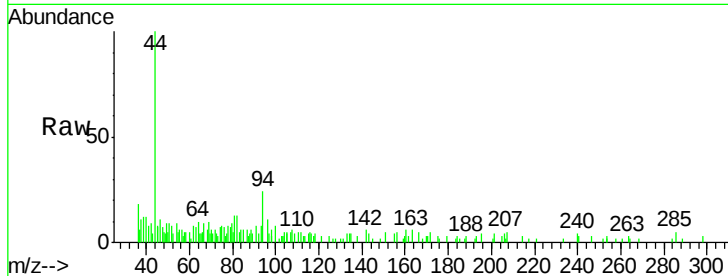
BP-VPB201-GW-320-322

Tot Ion: 94 Resp: 773

Ion Ratio Lower Upper

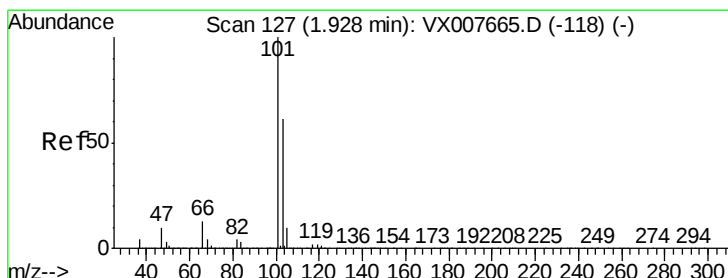
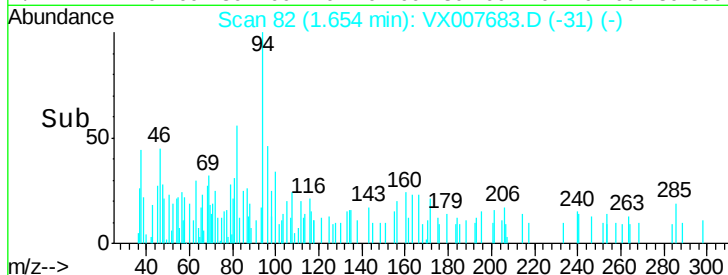
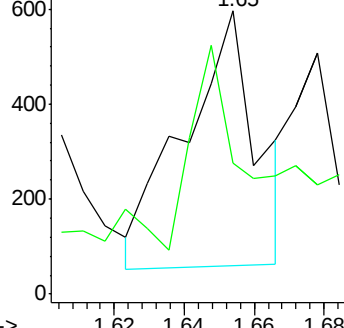
94 100

96 20.8 73.9 110.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#7

Trichlorofluoromethane

Concen: 0.763 ug/l

RT: 1.94 min Scan# 129

Delta R.T. 0.01 min

Lab File: VX007683.D

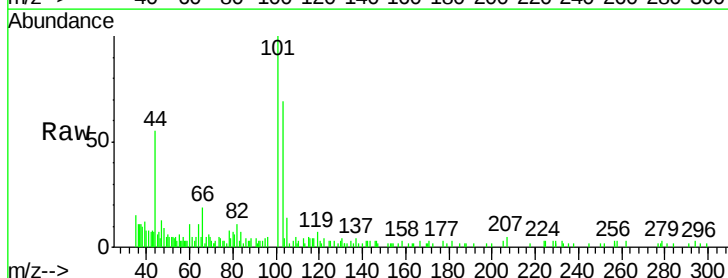
Acq: 25 Feb 2019 19:26

Tgt Ion: 101 Resp: 4295

Ion Ratio Lower Upper

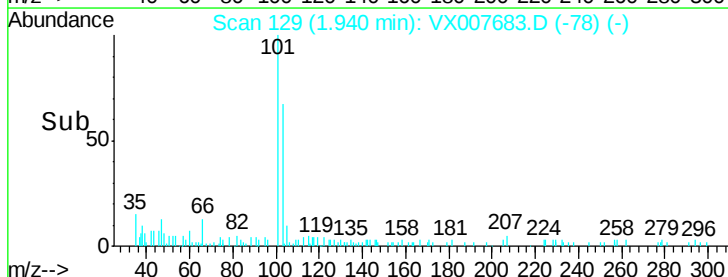
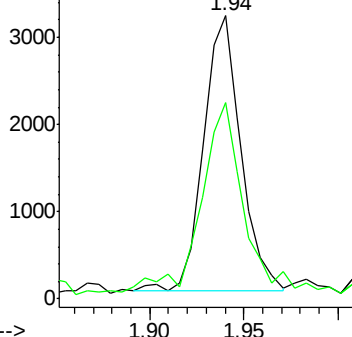
101 100

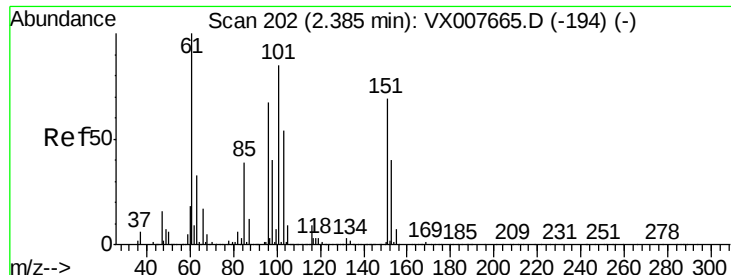
103 67.0 52.6 79.0



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.344 ug/l

RT: 2.39 min Scan# 203

Delta R.T. 0.01 min

Lab File: VX007683.D

Acq: 25 Feb 2019 19:26

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB201-GW-320-322

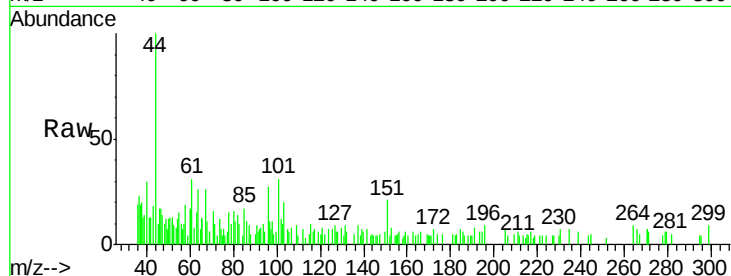
Tot Ion:101 Resp: 1170

Ion Ratio Lower Upper

101 100

85 47.1 34.1 51.1

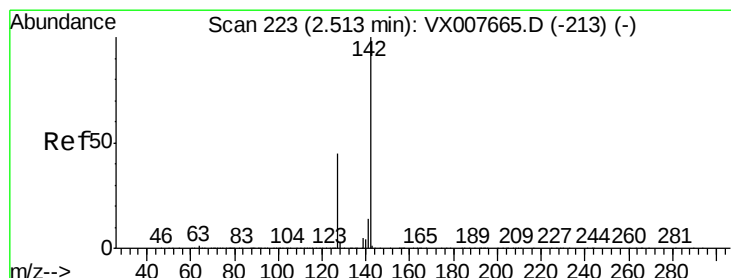
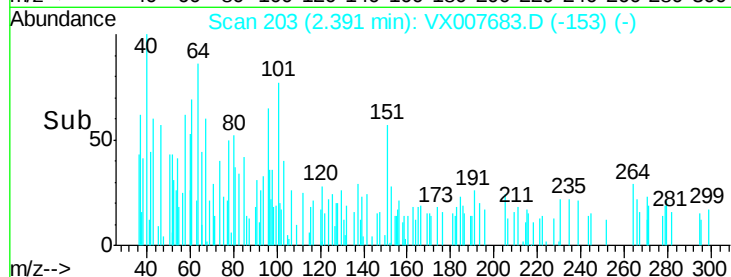
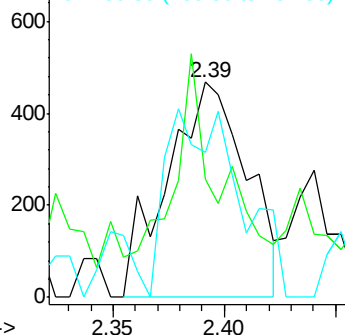
151 79.7 69.9 104.9



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



#10

Methyl Iodide

Concen: 0.208 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX007683.D

Acq: 25 Feb 2019 19:26

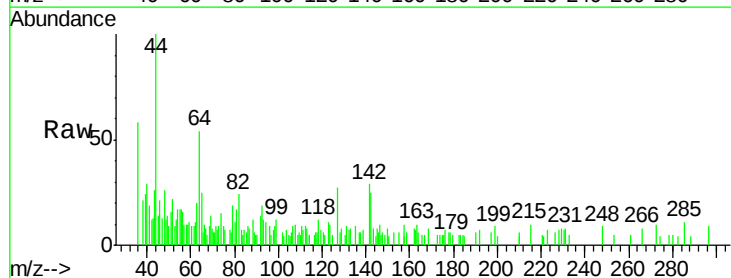
Tgt Ion:142 Resp: 880

Ion Ratio Lower Upper

142 100

127 97.6 33.7 50.5#

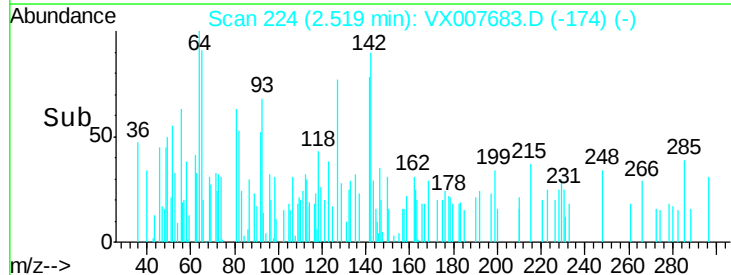
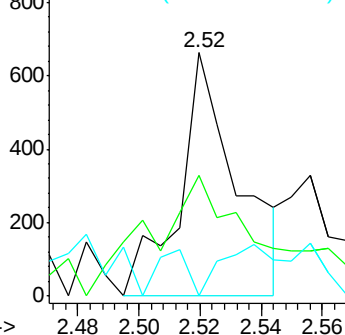
141 9.7 11.3 16.9#

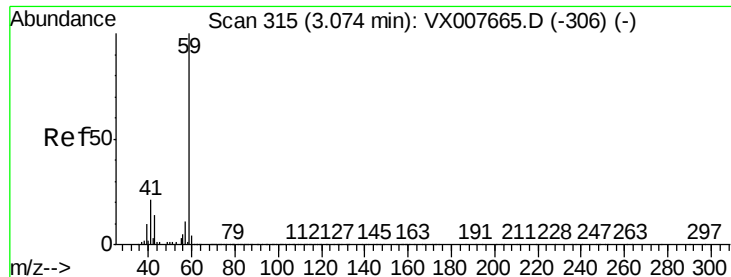


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



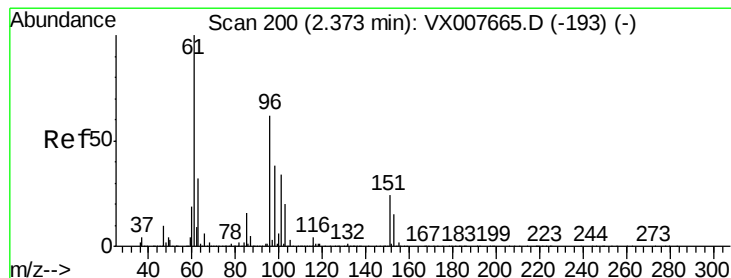
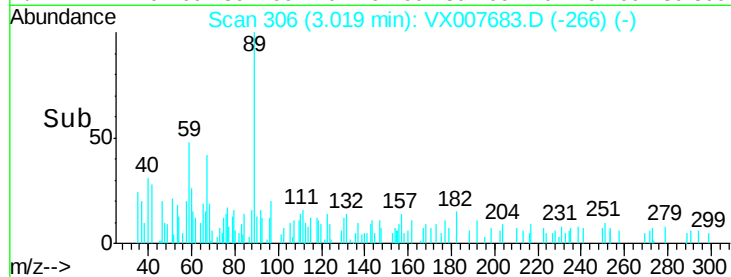
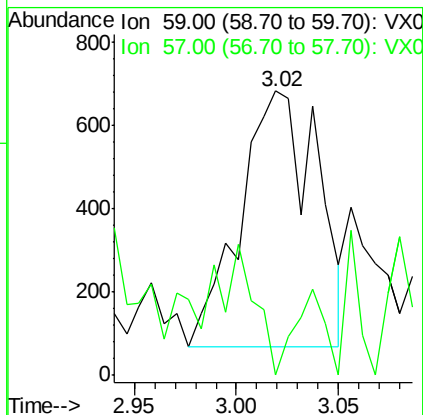
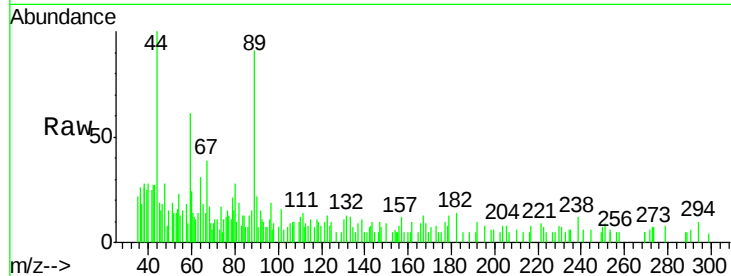


#11

Tert butyl alcohol
Concen: 1.947 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.05 min
Lab File: VX007683.D
Acq: 25 Feb 2019 19:26

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB201-GW-320-322

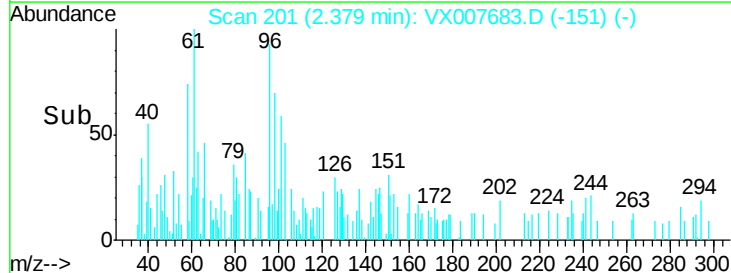
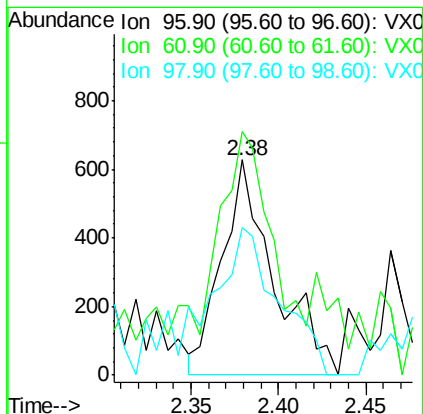
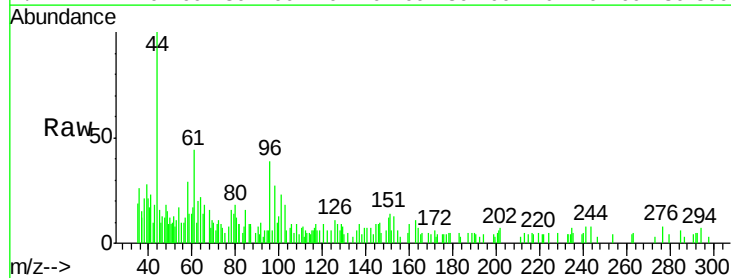
Tot Ion: 59 Resp: 1604
Ion Ratio Lower Upper
59 100
57 12.7 8.1 12.1#

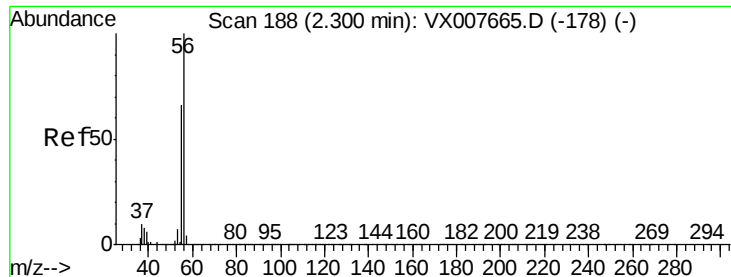


#12

1,1-Dichloroethene
Concen: 0.425 ug/l
RT: 2.38 min Scan# 201
Delta R.T. 0.01 min
Lab File: VX007683.D
Acq: 25 Feb 2019 19:26

Tgt Ion: 96 Resp: 1302
Ion Ratio Lower Upper
96 100
61 80.7 123.0 184.4#
98 68.6 50.9 76.3

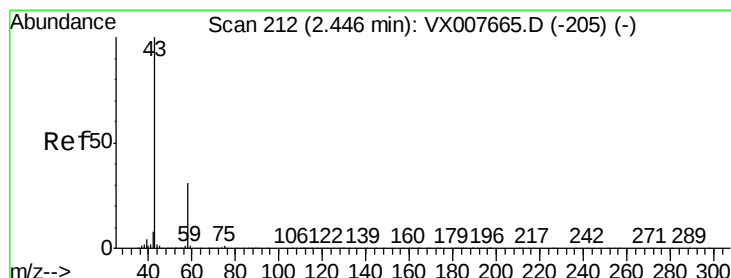
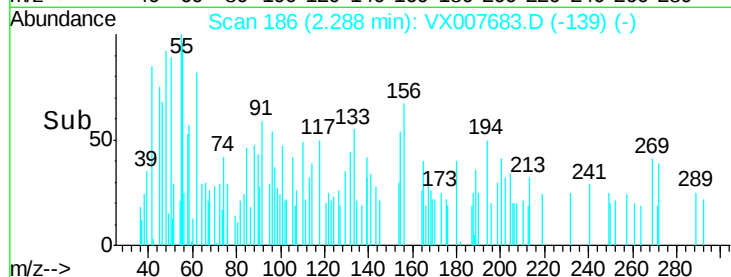
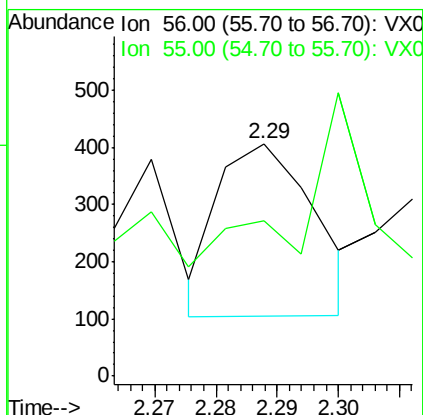
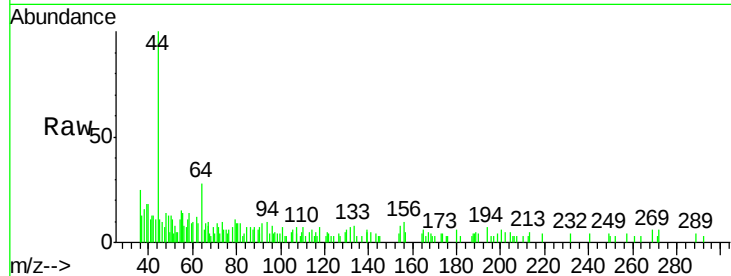




#13
Acrolein
Concen: 0.451 ug/l
RT: 2.29 min Scan# 186
Delta R.T. -0.01 min
Lab File: VX007683.D
Acq: 25 Feb 2019 19:26

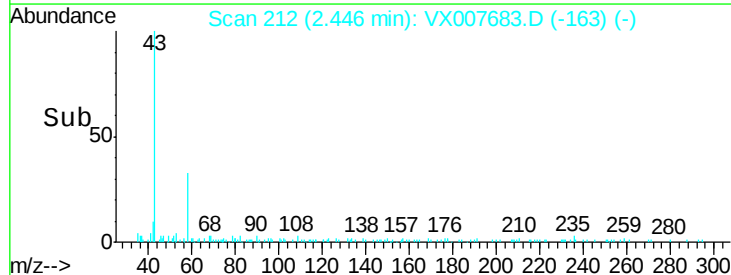
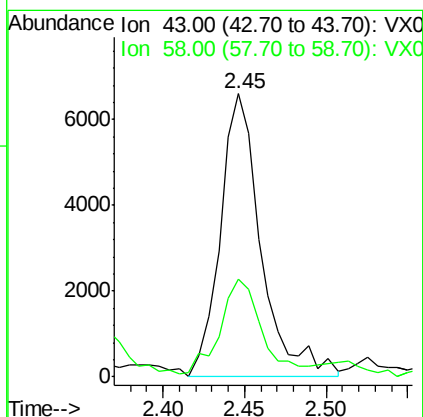
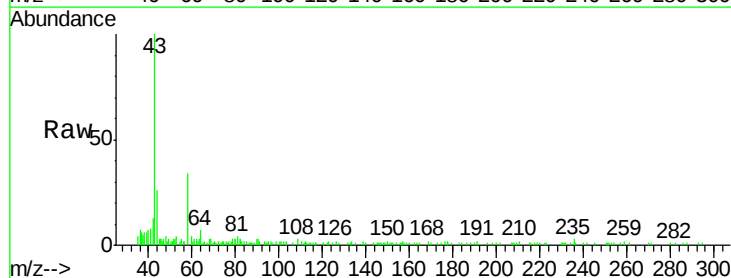
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB201-GW-320-322

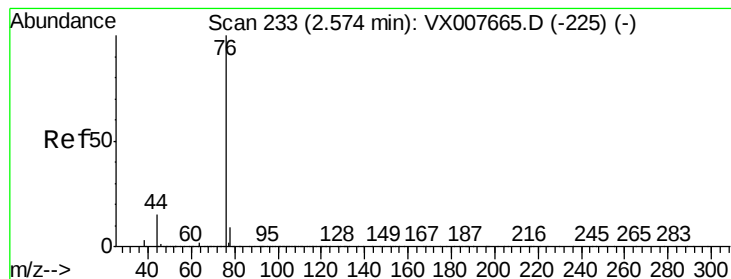
Tot Ion: 56 Resp: 330
Ion Ratio Lower Upper
56 100
55 97.0 56.9 85.3#



#16
Acetone
Concen: 5.943 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX007683.D
Acq: 25 Feb 2019 19:26

Tgt Ion: 43 Resp: 11474
Ion Ratio Lower Upper
43 100
58 30.5 24.9 37.3





#17

Carbon Disulfide

Concen: 0.252 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.01 min

Lab File: VX007683.D

Acq: 25 Feb 2019 19:26

Instrument :

MSVOA_X

ClientSampleId :

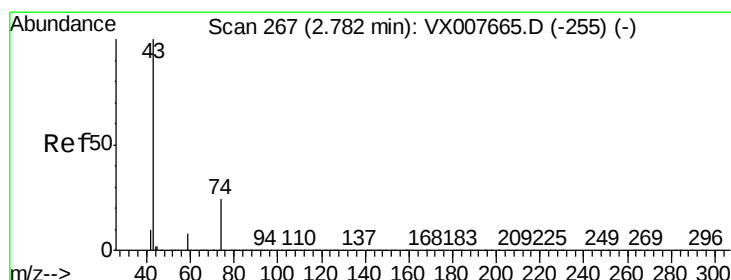
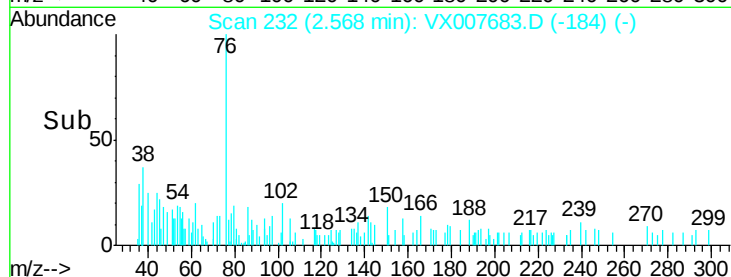
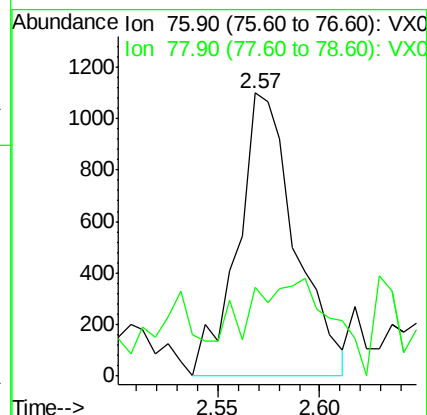
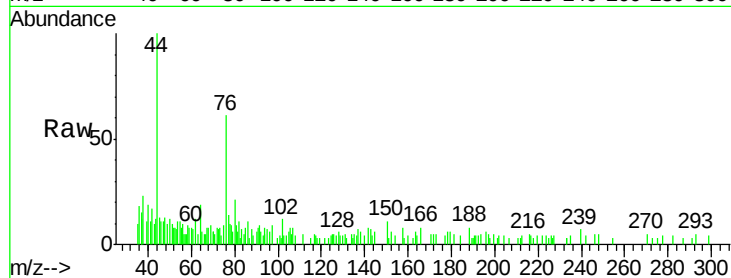
BP-VPB201-GW-320-322

Tot Ion: 76 Resp: 2148

Ion Ratio Lower Upper

76 100

78 16.8 7.1 10.7#



#18

Methyl Acetate

Concen: 0.487 ug/l

RT: 2.78 min Scan# 267

Delta R.T. -0.00 min

Lab File: VX007683.D

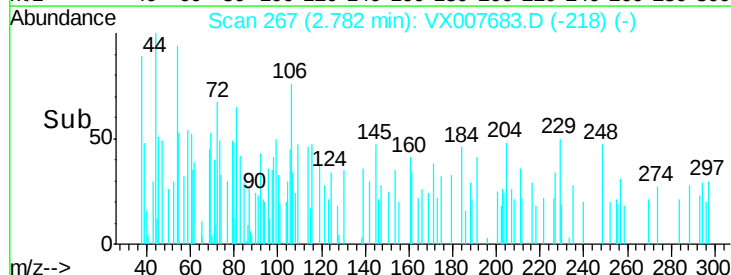
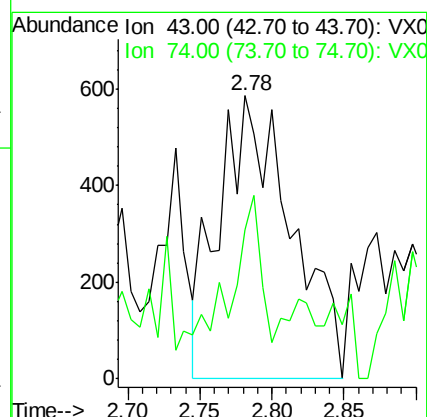
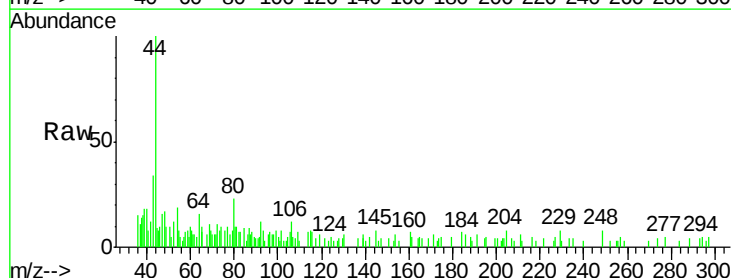
Acq: 25 Feb 2019 19:26

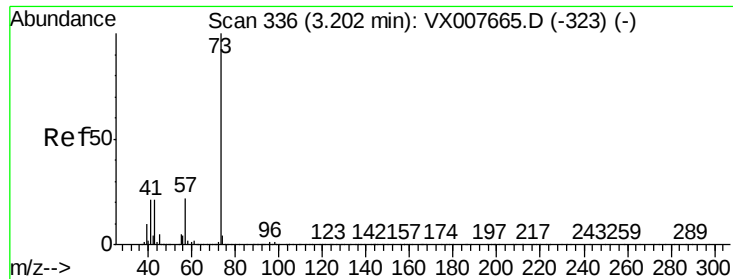
Tgt Ion: 43 Resp: 2053

Ion Ratio Lower Upper

43 100

74 24.8 19.4 29.2



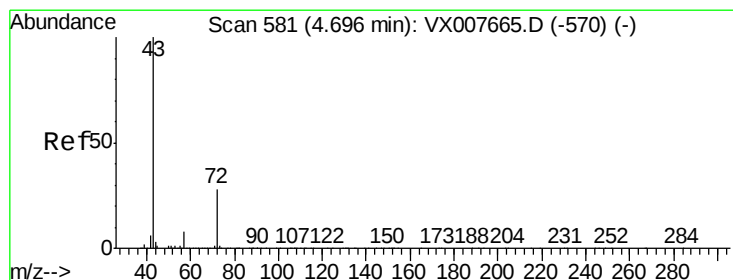
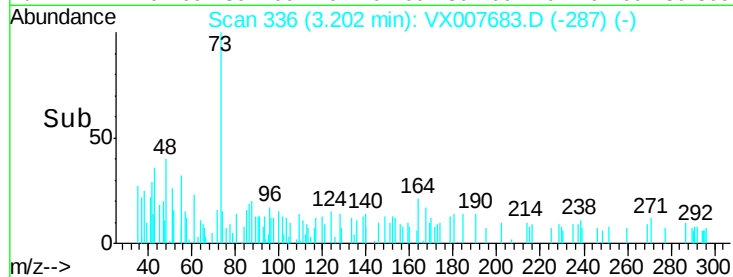
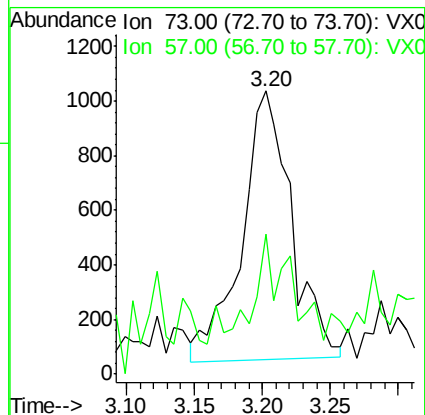
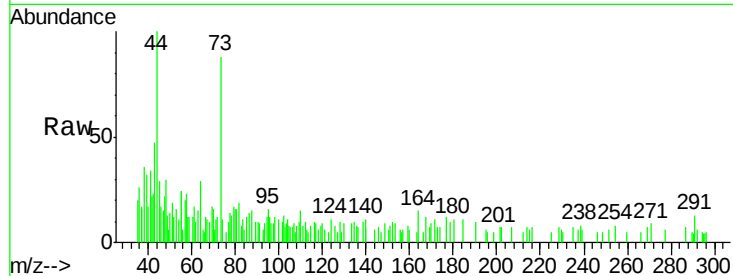


#19

Methvl tert-butvl Ether
 Concen: 0.235 ug/l
 RT: 3.20 min Scan# 336
 Delta R.T. -0.00 min
 Lab File: VX007683.D
 Acq: 25 Feb 2019 19:26

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB201-GW-320-322

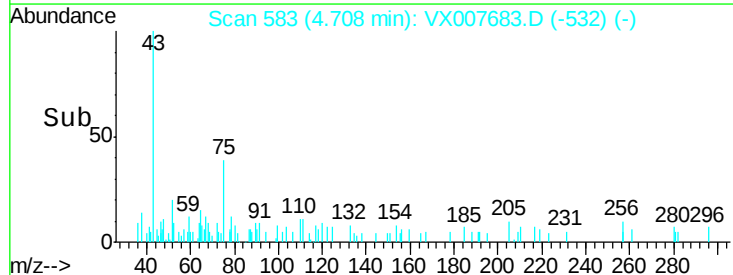
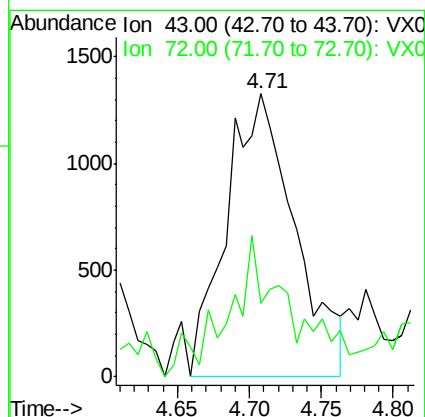
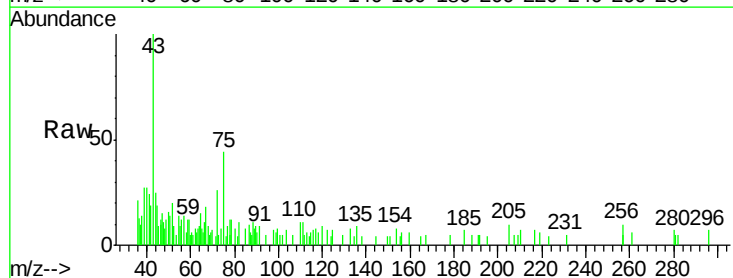
Tot Ion: 73 Resp: 2510
 Ion Ratio Lower Upper
 73 100
 57 33.8 17.8 26.8#

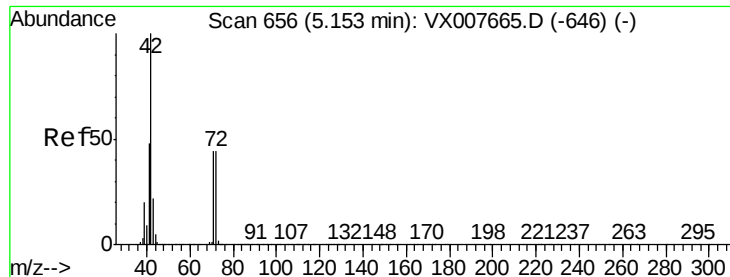


#25

2-Butanone
 Concen: 1.498 ug/l
 RT: 4.71 min Scan# 583
 Delta R.T. 0.01 min
 Lab File: VX007683.D
 Acq: 25 Feb 2019 19:26

Tgt Ion: 43 Resp: 4405
 Ion Ratio Lower Upper
 43 100
 72 15.5 22.2 33.2#

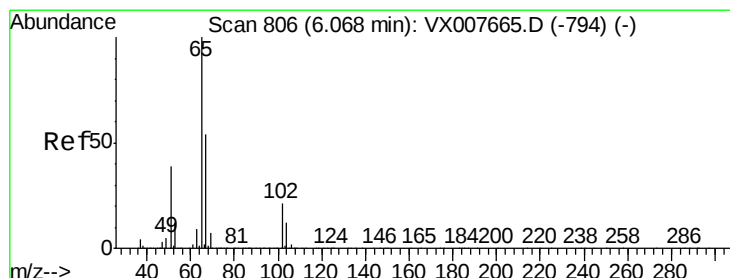
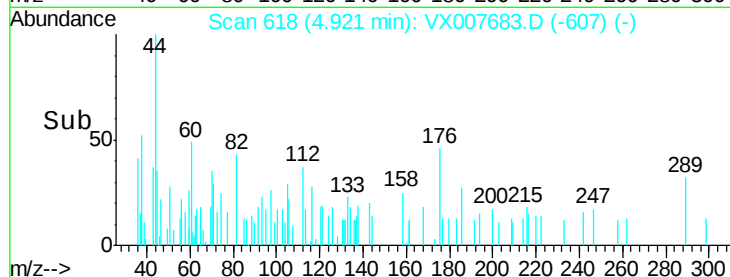
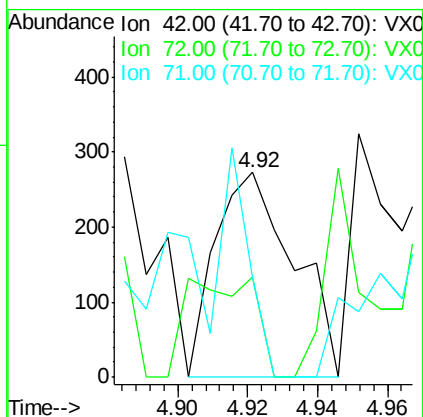
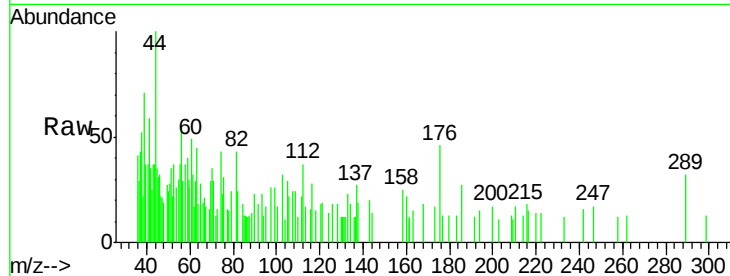




#29
Tetrahydrofuran
Concen: 0.221 ug/l
RT: 4.92 min Scan# 618
Delta R.T. -0.23 min
Lab File: VX007683.D
Acq: 25 Feb 2019 19:26

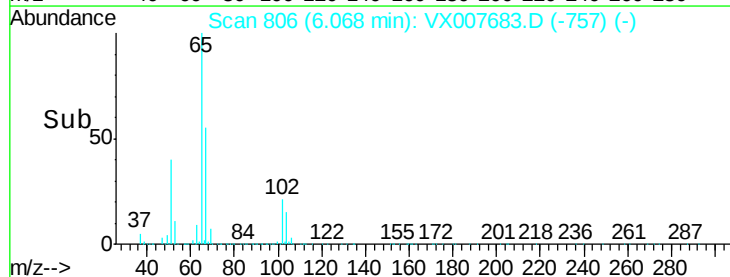
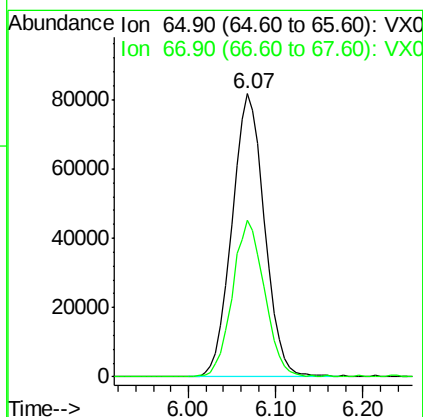
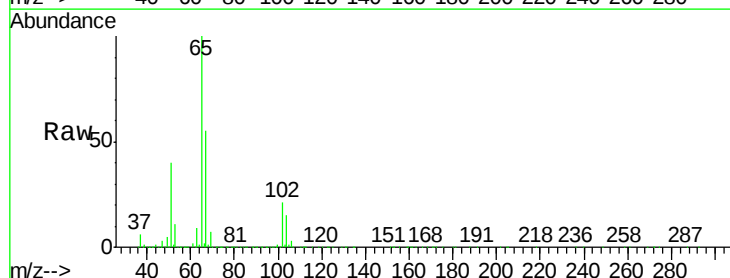
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB201-GW-320-322

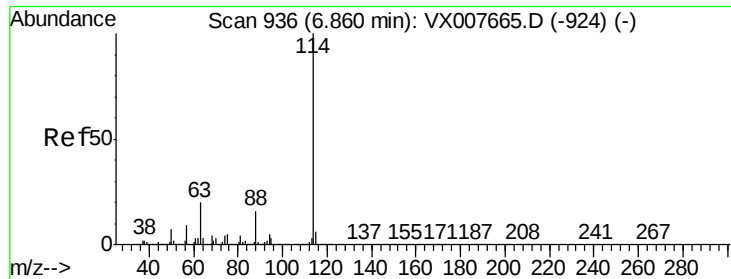
Tot Ion: 42 Resp: 429
Ion Ratio Lower Upper
42 100
72 41.7 37.6 56.4
71 37.5 34.6 51.8



#33
1,2-Dichloroethane-d4
Concen: 48.616 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.00 min
Lab File: VX007683.D
Acq: 25 Feb 2019 19:26

Tgt Ion: 65 Resp: 211075
Ion Ratio Lower Upper
65 100
67 54.1 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: VX007683.D

Acq: 25 Feb 2019 19:26

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB201-GW-320-322

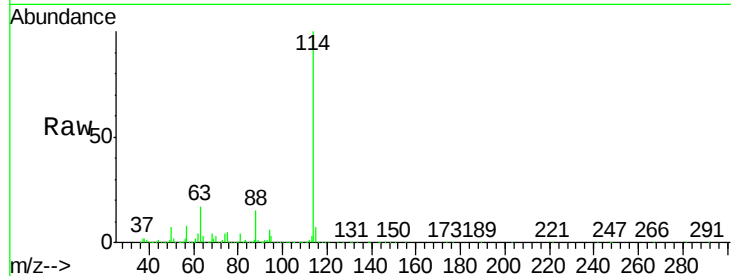
Tot Ion:114 Resp: 599735

Ion Ratio Lower Upper

114 100

63 17.3 0.0 35.6

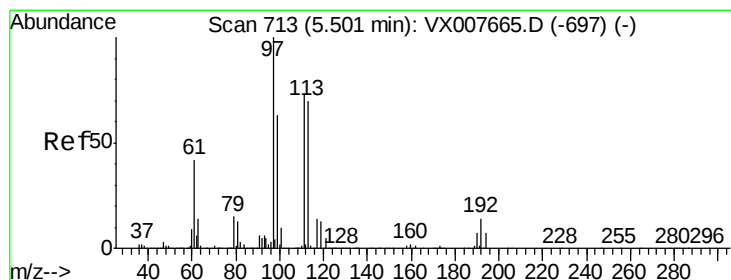
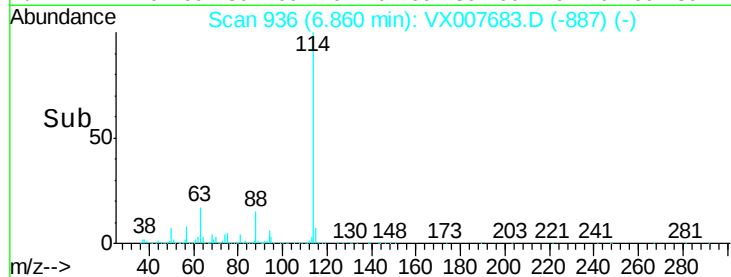
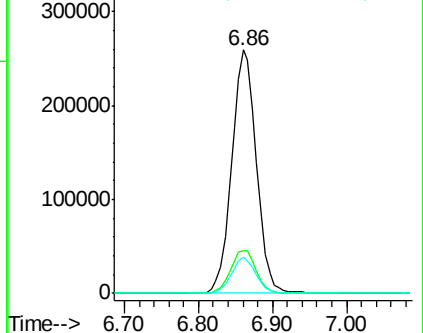
88 14.6 0.0 29.6



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: 49.326 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX007683.D

Acq: 25 Feb 2019 19:26

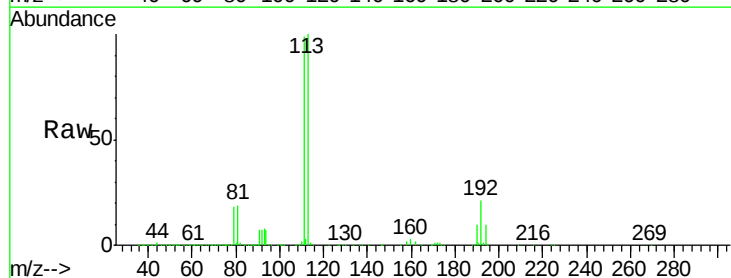
Tgt Ion:113 Resp: 197749

Ion Ratio Lower Upper

113 100

111 101.5 81.8 122.8

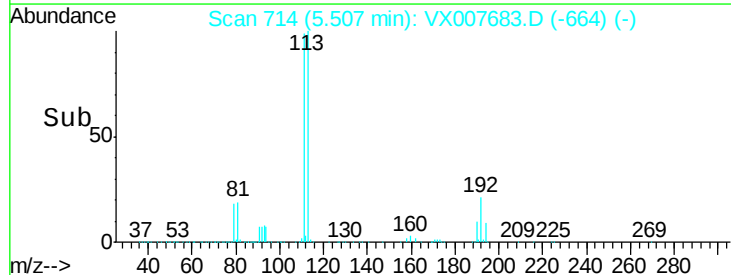
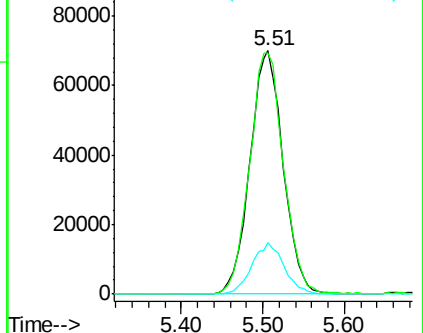
192 20.6 18.5 27.7

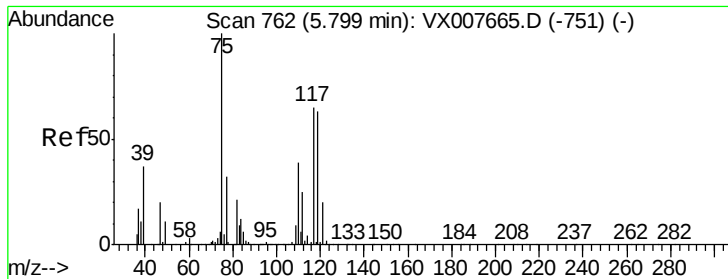


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 0.205 ug/l

RT: 5.78 min Scan# 759

Delta R.T. -0.02 min

Lab File: VX007683.D

Acq: 25 Feb 2019 19:26

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB201-GW-320-322

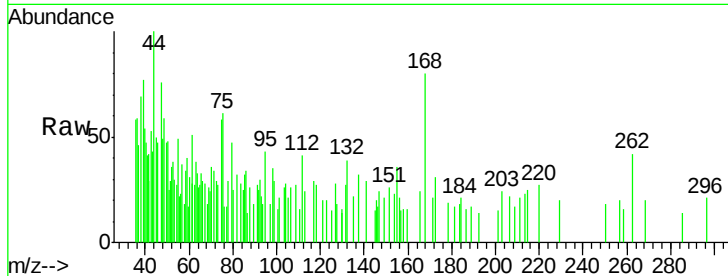
Tot Ion: 75 Resp: 1103

Ion Ratio Lower Upper

75 100

110 0.0 20.0 59.9#

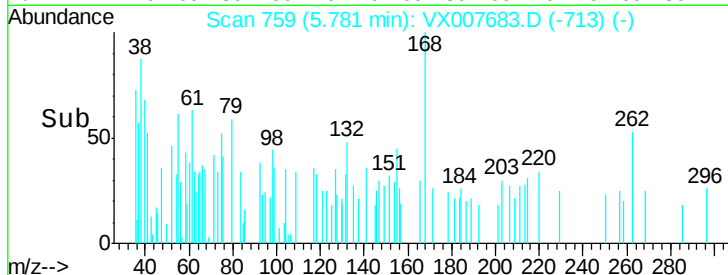
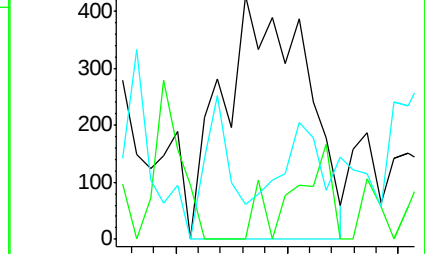
77 18.4 24.7 37.1#



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



#38

Carbon Tetrachloride

Concen: 5.960 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007683.D

Acq: 25 Feb 2019 19:26

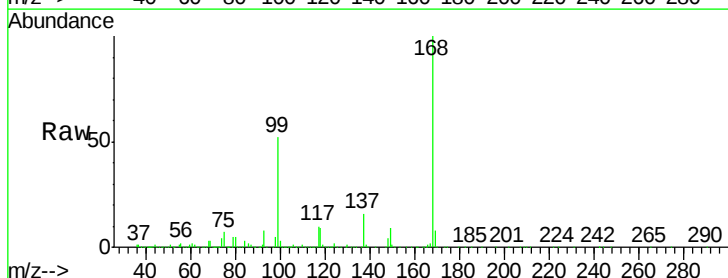
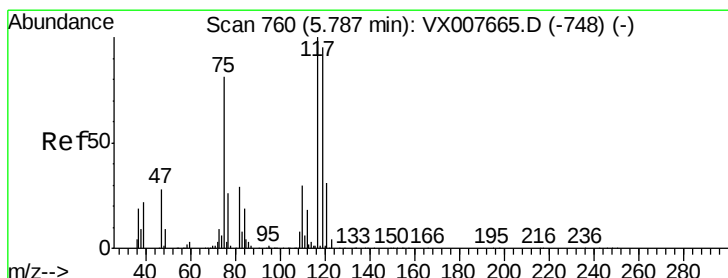
Tgt Ion: 117 Resp: 32282

Ion Ratio Lower Upper

117 100

119 5.1 75.3 112.9#

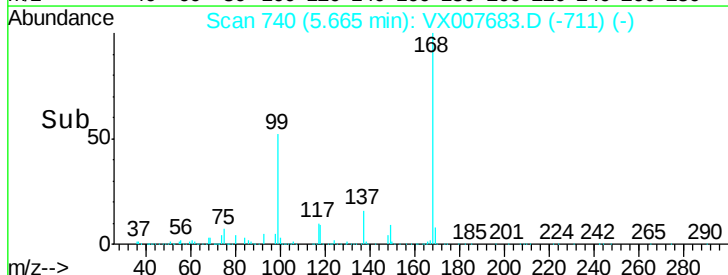
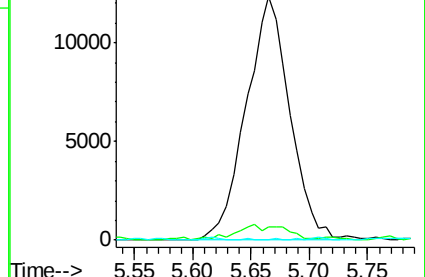
121 0.6 25.0 37.4#

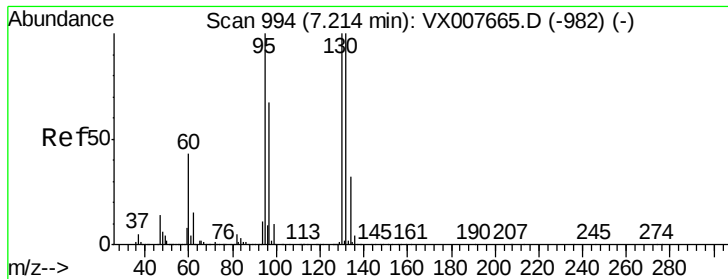


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 0.881 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX007683.D

Acq: 25 Feb 2019 19:26

Instrument :

MSVOA_X

ClientSampleId :

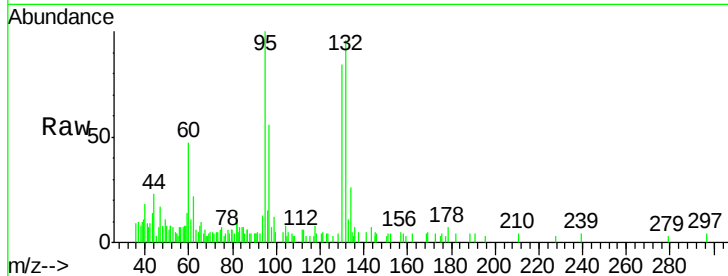
BP-VPB201-GW-320-322

Tot Ion:130 Resp: 4032

Ion Ratio Lower Upper

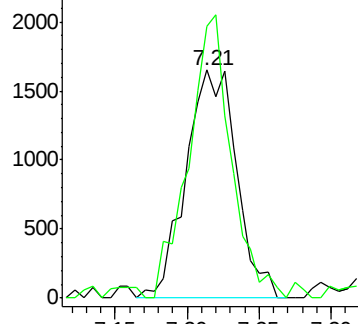
130 100

95 119.2 0.0 180.0

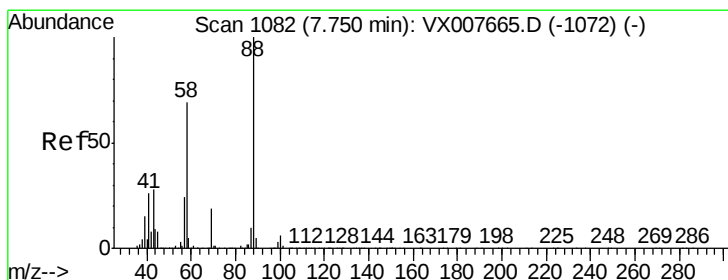
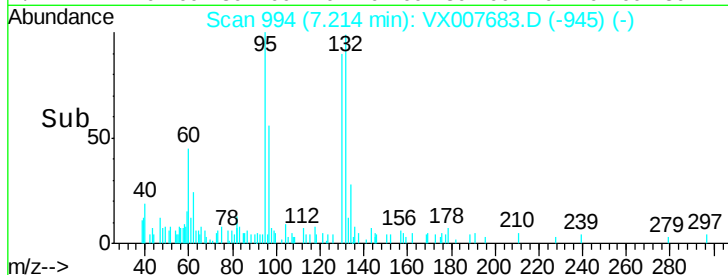


Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



Time-->



#49

1,4-Dioxane

Concen: 3.258 ug/l

RT: 7.77 min Scan# 1085

Delta R.T. 0.02 min

Lab File: VX007683.D

Acq: 25 Feb 2019 19:26

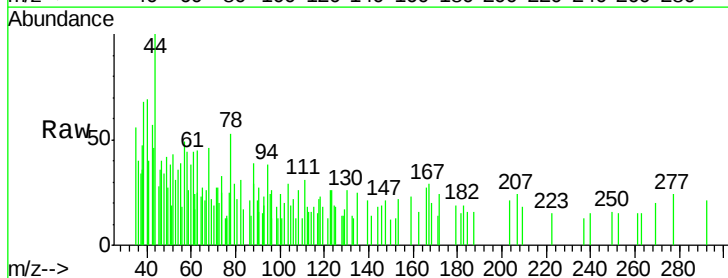
Tgt Ion: 88 Resp: 340

Ion Ratio Lower Upper

88 100

43 100.6 24.2 36.4#

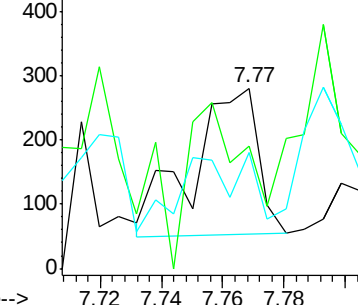
58 35.3 53.0 79.4#



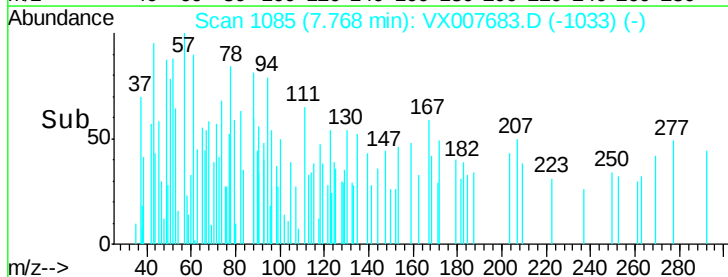
Abundance Ion 88.00 (87.70 to 88.70): VX0

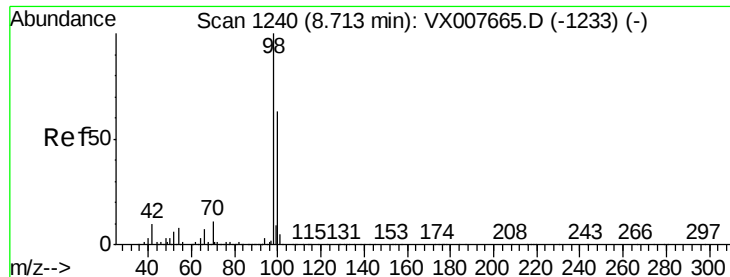
Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->





#50

Toluene-d8

Concen: 46.884 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007683.D

Acq: 25 Feb 2019 19:26

Instrument :

MSVOA_X

ClientSampleId :

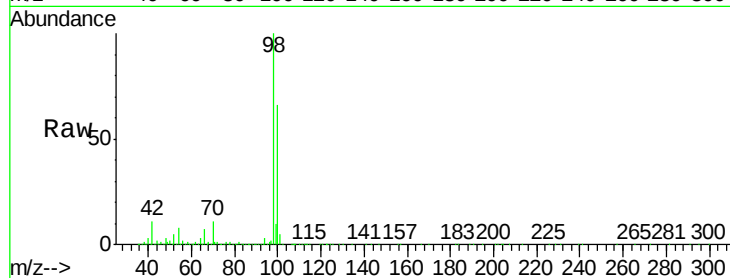
BP-VPB201-GW-320-322

Tot Ion: 98 Resp: 719578

Ion Ratio Lower Upper

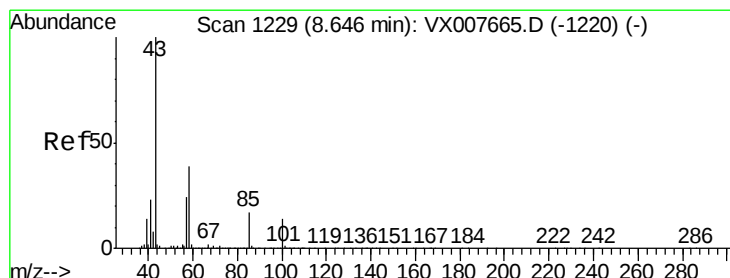
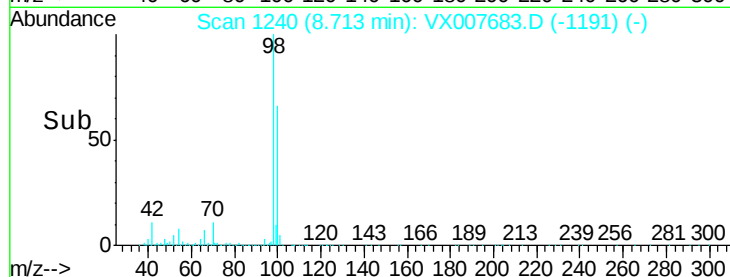
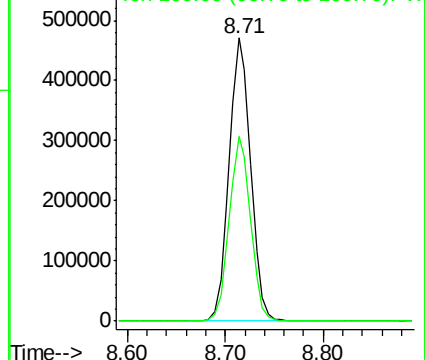
98 100

100 64.5 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#51

4-Methyl-2-Pentanone

Concen: 0.201 ug/l

RT: 8.65 min Scan# 1229

Delta R.T. -0.00 min

Lab File: VX007683.D

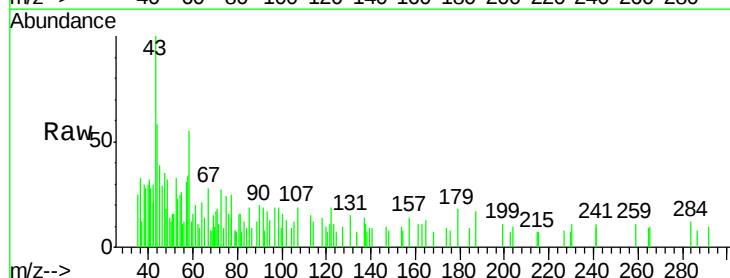
Acq: 25 Feb 2019 19:26

Tgt Ion: 43 Resp: 1242

Ion Ratio Lower Upper

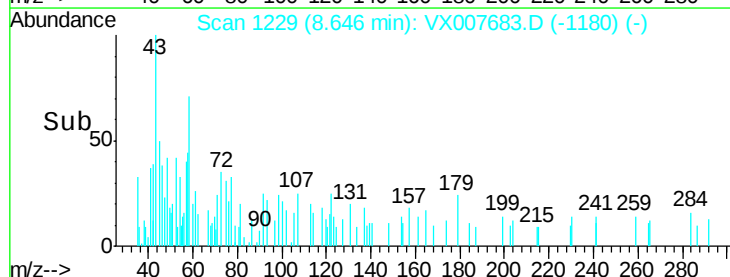
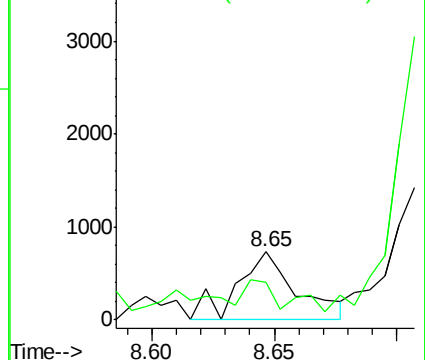
43 100

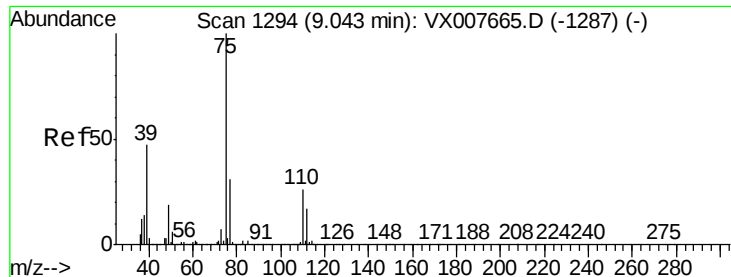
58 16.7 31.2 46.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

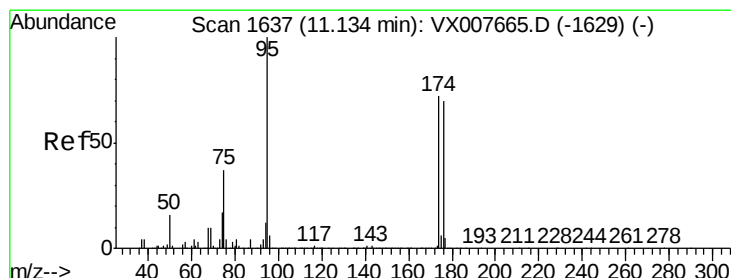
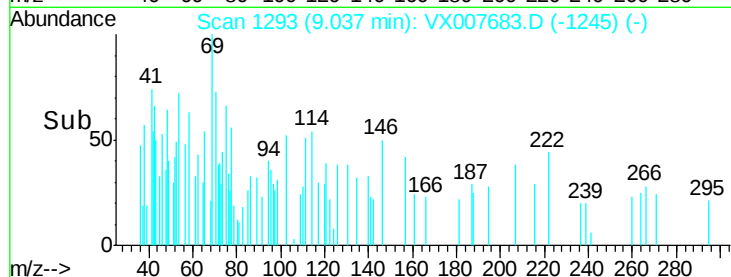
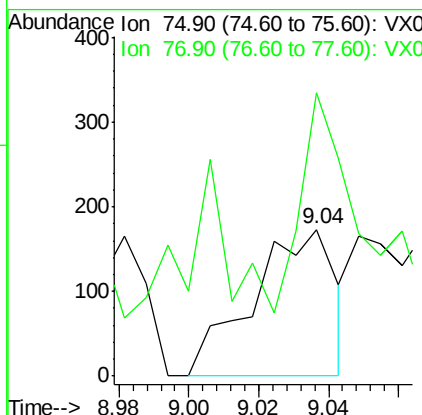
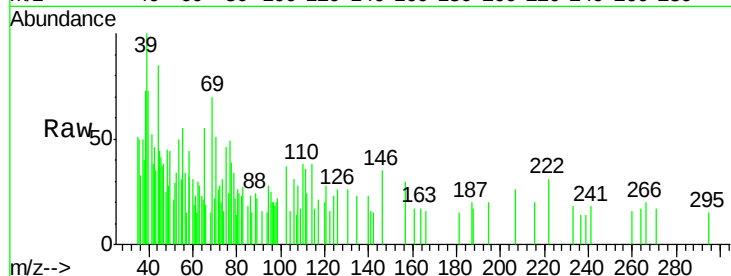




#53
t-1,3-Dichloropropene
Concen: 2.844 ug/l
RT: 9.04 min Scan# 1293
Delta R.T. -0.01 min
Lab File: VX007683.D
Acq: 25 Feb 2019 19:26

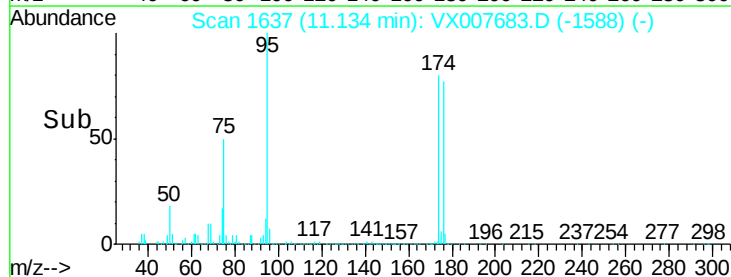
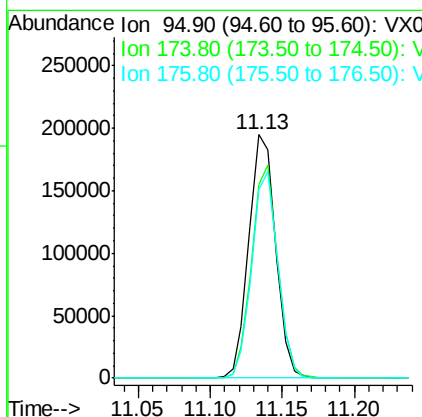
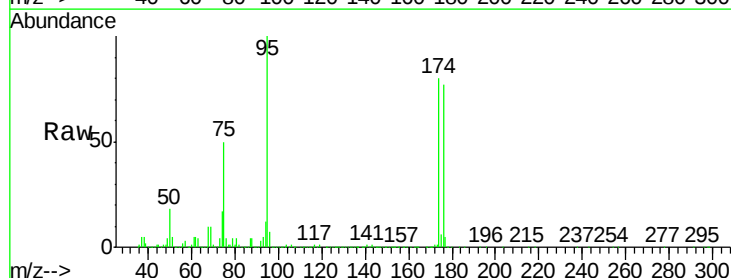
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB201-GW-320-322

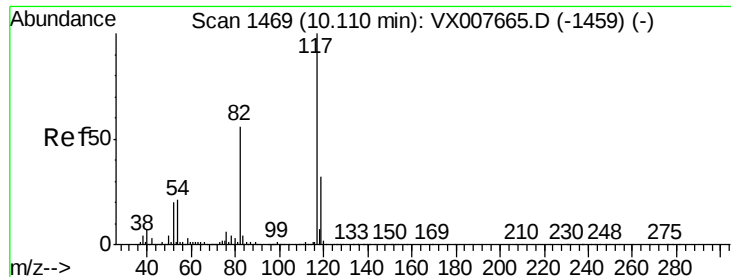
Tot Ion: 75 Resp: 285
Ion Ratio Lower Upper
75 100
77 134.7 25.2 37.8#



#62
4-Bromofluorobenzene
Concen: 44.230 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX007683.D
Acq: 25 Feb 2019 19:26

Tgt Ion: 95 Resp: 249159
Ion Ratio Lower Upper
95 100
174 86.0 0.0 189.2
176 82.9 0.0 186.2

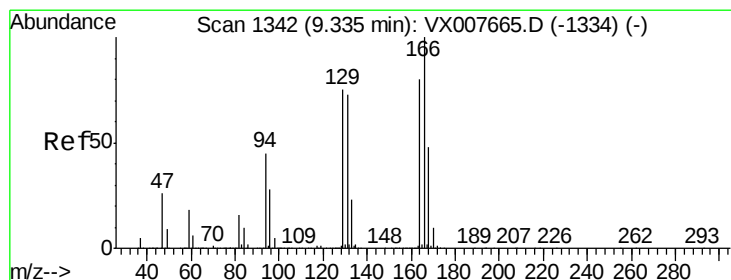
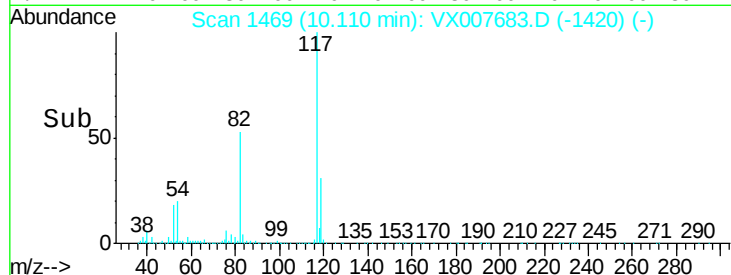
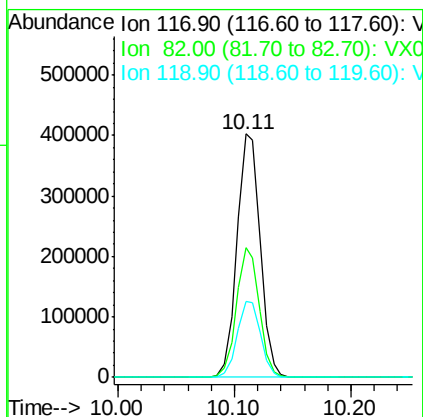
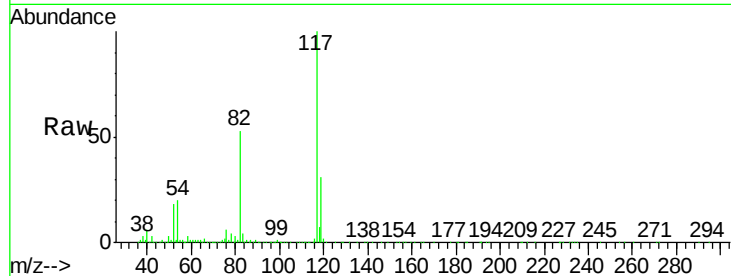




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX007683.D
Acq: 25 Feb 2019 19:26

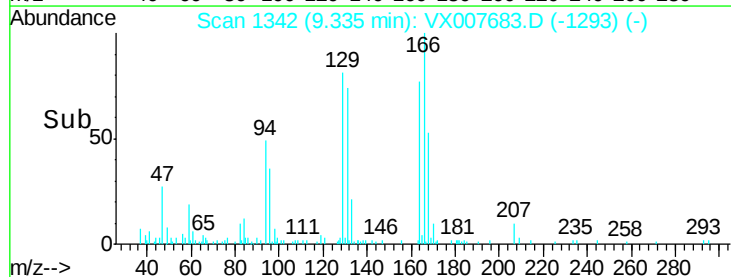
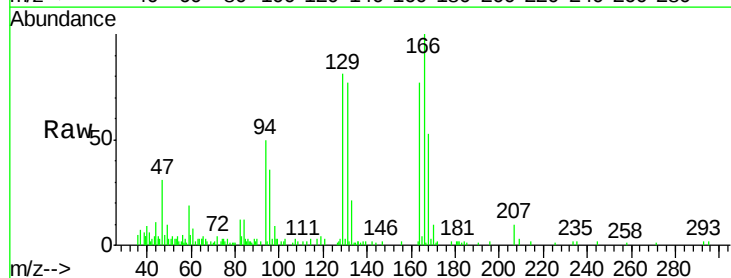
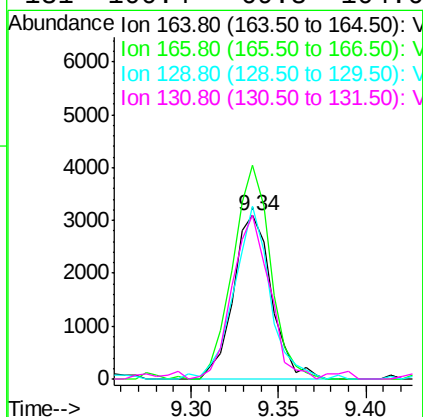
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB201-GW-320-322

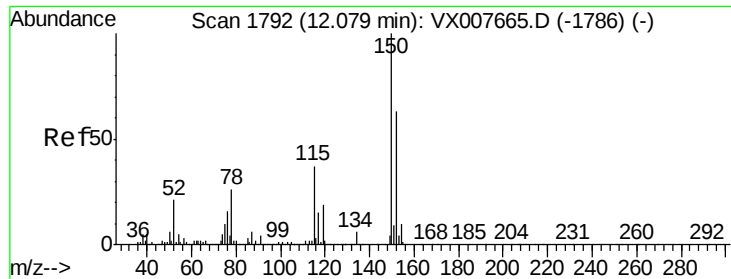
Tot Ion	Ratio	Lower	Upper
117	100		
82	53.0	42.1	63.1
119	31.3	26.5	39.7



#64
Tetrachloroethene
Concen: 1.041 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX007683.D
Acq: 25 Feb 2019 19:26

Tgt Ion	Ratio	Lower	Upper
164	100		
166	130.5	101.0	151.4
129	103.1	70.5	105.7
131	100.4	69.8	104.6



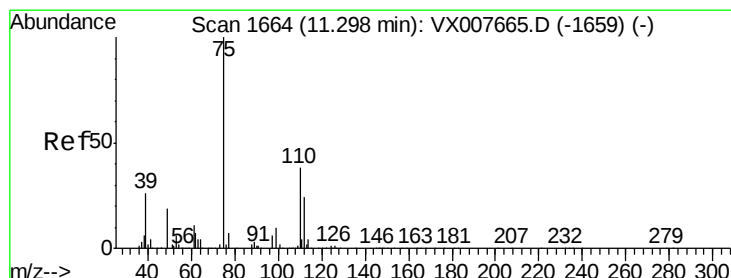
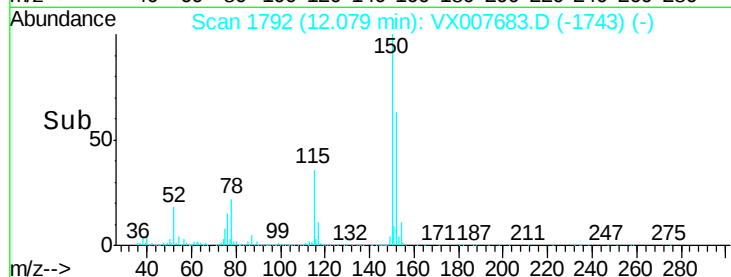
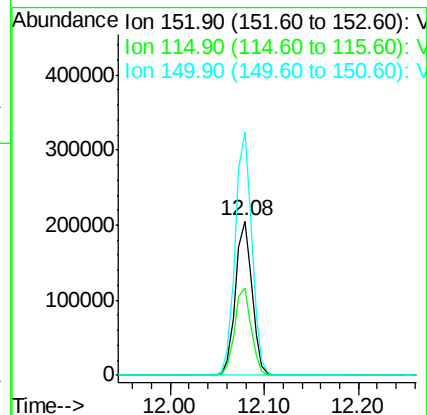
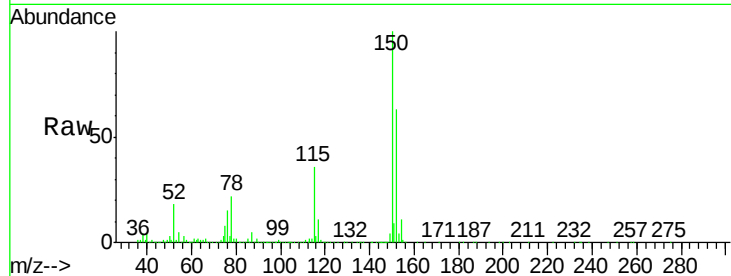


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX007683.D
Acq: 25 Feb 2019 19:26

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB201-GW-320-322

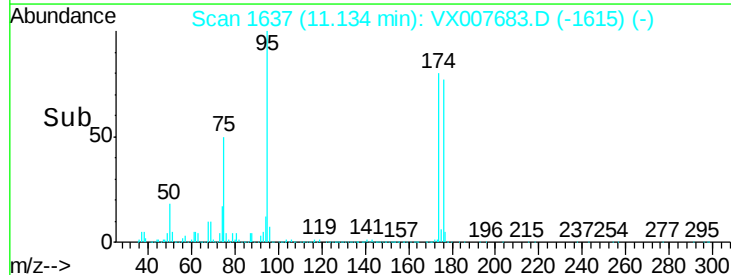
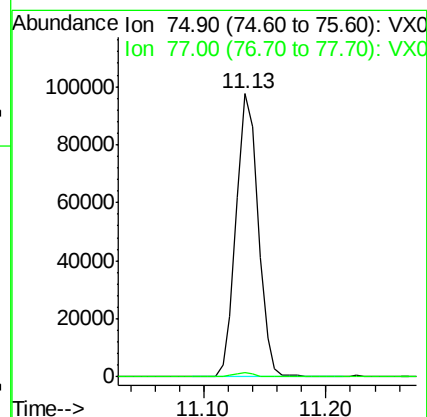
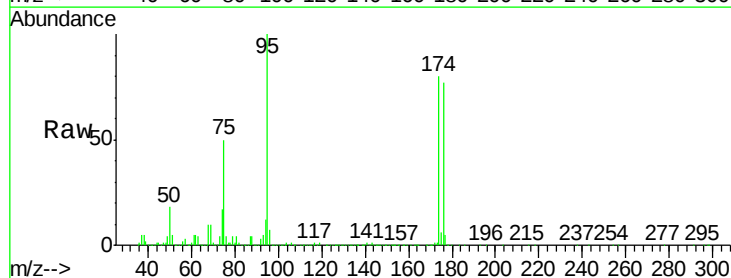
Tot Ion	Ratio	Lower	Upper
152	100		
115	56.7	38.0	114.0
150	158.6	0.0	346.4

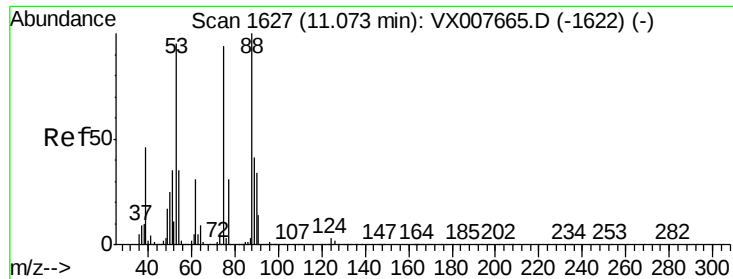


#76

1,2,3-Trichloropropane
Concen: 22.517 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX007683.D
Acq: 25 Feb 2019 19:26

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.9	23.0	69.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 59.716 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007683.D

Acq: 25 Feb 2019 19:26

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB201-GW-320-322

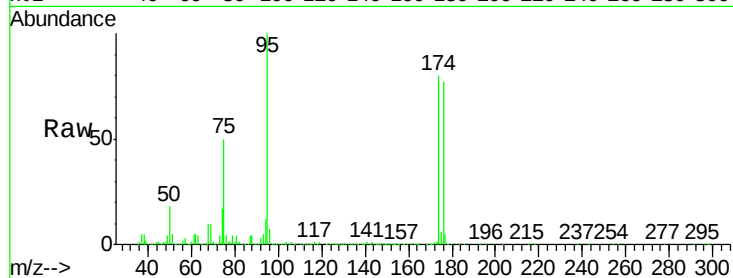
Tot Ion: 75 Resp: 120895

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.6#

89 0.2 41.4 62.0#



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

