

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX041020\
 Data File : VX015636.D
 Acq On : 10 Apr 2020 20:50
 Operator : JC/SP
 Sample : L2196-13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB180-GW-238-240

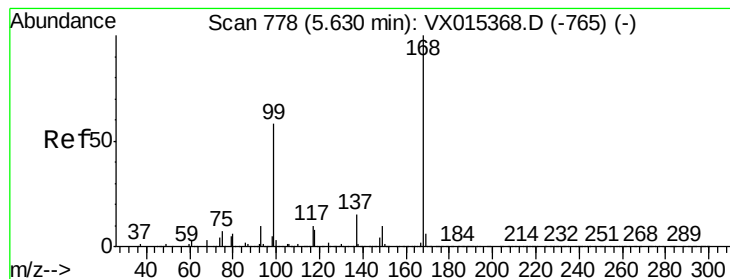
Quant Time: Apr 11 00:36:54 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032720W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 27 09:35:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	1094052	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	1679918	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1629216	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	888256	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	690673	44.76	ug/l	0.00
Spiked Amount			Recovery	=	89.52%	
35) Dibromofluoromethane	5.47	113	510186	47.51	ug/l	0.00
Spiked Amount			Recovery	=	95.02%	
50) Toluene-d8	8.70	98	2021849	51.14	ug/l	0.00
Spiked Amount			Recovery	=	102.28%	
62) 4-Bromofluorobenzene	11.12	95	860763	53.57	ug/l	0.00
Spiked Amount			Recovery	=	107.14%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	632	Below Cal	#	17
9) 1,1,2-Trichlorotrifluoroet	2.37	101	5823	0.591	ug/l	95
11) Tert butyl alcohol	3.01	59	2935	0.795	ug/l #	68
12) 1,1-Dichloroethene	2.36	96	3211	0.311	ug/l #	48
13) Acrolein	2.27	56	658	0.313	ug/l #	1
16) Acetone	2.42	43	35791	5.399	ug/l	94
19) Methyl tert-butyl Ether	3.17	73	9065	0.226	ug/l #	87
24) 1,1-Dichloroethane	3.67	63	10802	0.480	ug/l #	82
25) 2-Butanone	4.65	43	3263	0.306	ug/l #	69
28) Bromochloromethane	4.99	49	2217	0.206	ug/l #	47
36) 1,1-Dichloropropene	5.64	75	78547	5.075	ug/l #	53
38) Carbon Tetrachloride	5.64	117	102559	6.117	ug/l #	16
44) Trichloroethene	7.20	130	26284	2.126	ug/l	91
49) 1,4-Dioxane	7.73	88	784	2.473	ug/l #	41
52) Toluene	8.77	92	8344	0.298	ug/l #	74
68) m/p-Xylenes	10.34	106	4530	0.211	ug/l #	65
76) 1,2,3-Trichloropropane	11.12	75	443006	24.253	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	443006	58.193	ug/l #	10

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 779

Delta R.T. 0.01 min

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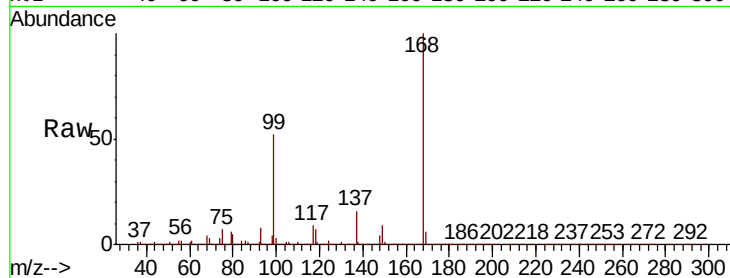
BP-VPB180-GW-238-240

Tot Ion:168 Resp: 1094052

Ion Ratio Lower Upper

168 100

99 51.5 46.4 69.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

400000

300000

200000

100000

0

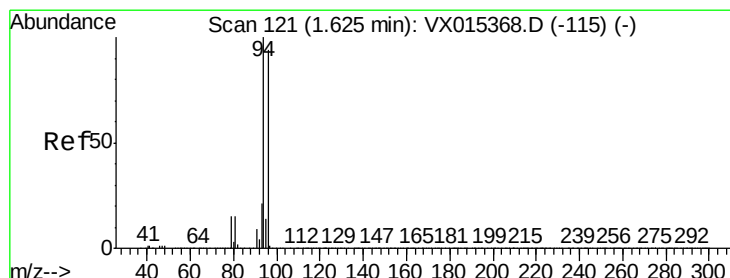
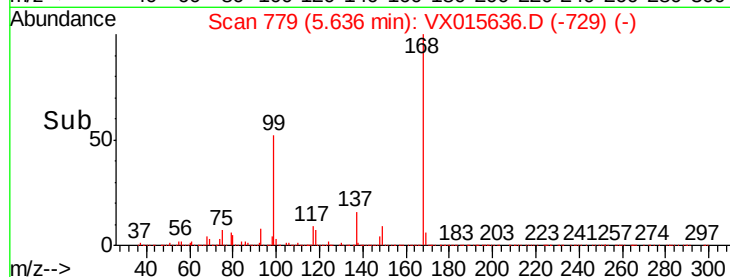
5.50

5.60

5.70

5.80

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 125

Delta R.T. 0.03 min

Lab File: VX015636.D

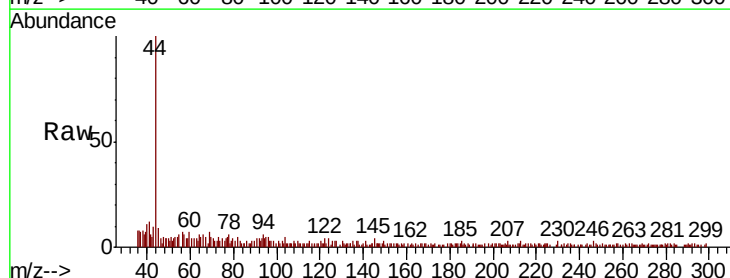
Acq: 10 Apr 2020 20:50

Tgt Ion: 94 Resp: 632

Ion Ratio Lower Upper

94 100

96 13.7 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1200

1000

800

600

400

200

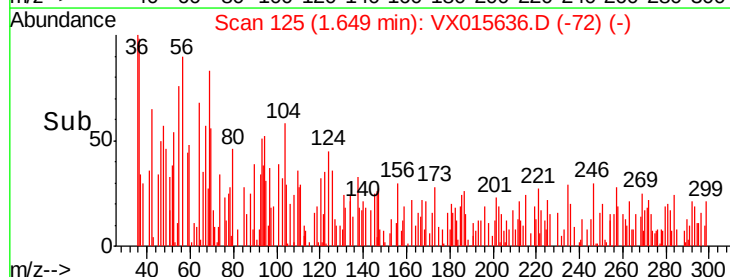
0

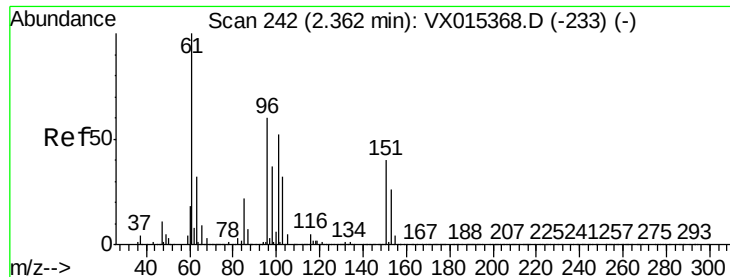
1.62

1.64

1.66

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.591 ug/l

RT: 2.37 min Scan# 244

Delta R.T. 0.01 min

Lab File: VX015636.D

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Instrument :

MSVOA_X

ClientSampleId :

BP-VPB180-GW-238-240

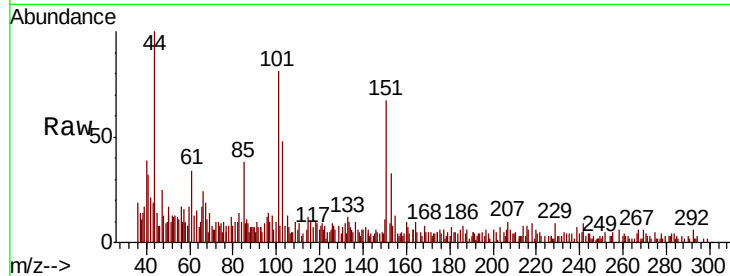
Tot Ion:101 Resp: 5823

Ion Ratio Lower Upper

101 100

85 49.2 35.0 52.4

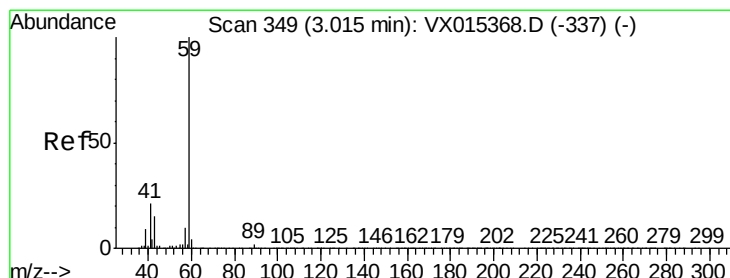
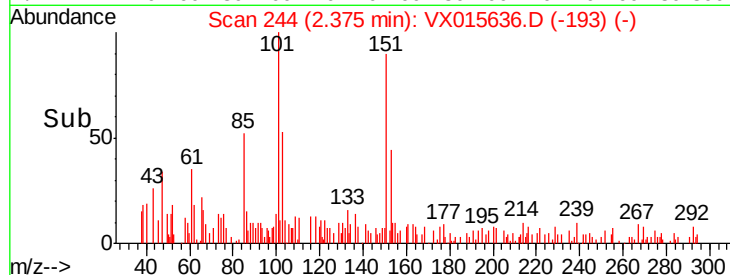
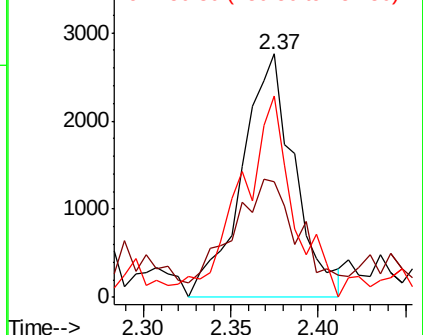
151 83.4 64.1 96.1



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



#11

Tert butyl alcohol

Concen: 0.795 ug/l

RT: 3.01 min Scan# 349

Delta R.T. 0.00 min

Lab File: VX015636.D

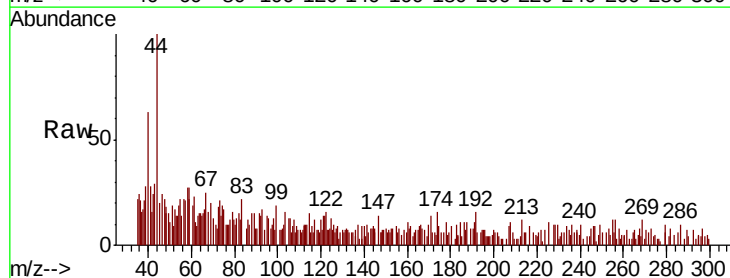
Acq: 10 Apr 2020 20:50

Tgt Ion: 59 Resp: 2935

Ion Ratio Lower Upper

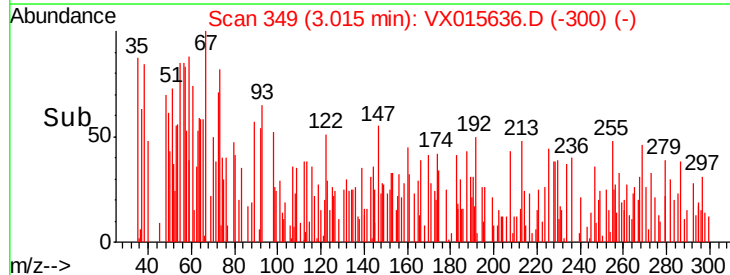
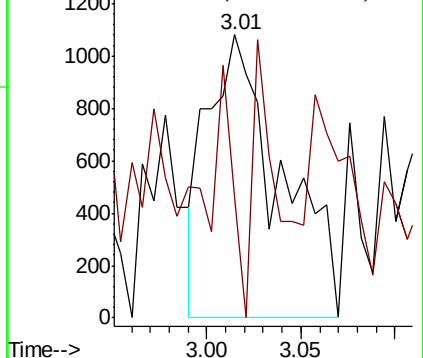
59 100

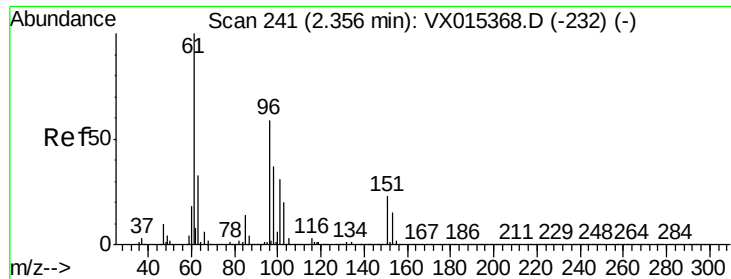
57 21.9 8.1 12.1#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.311 ug/l

RT: 2.36 min Scan# 241

Delta R.T. 0.00 min

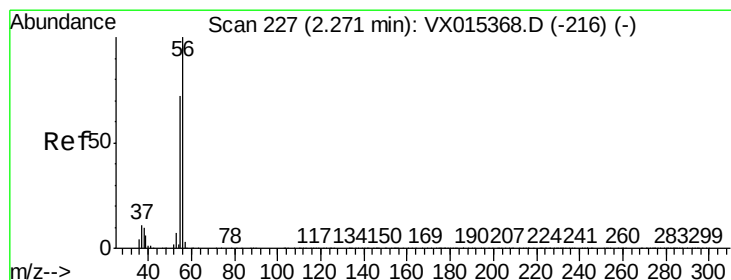
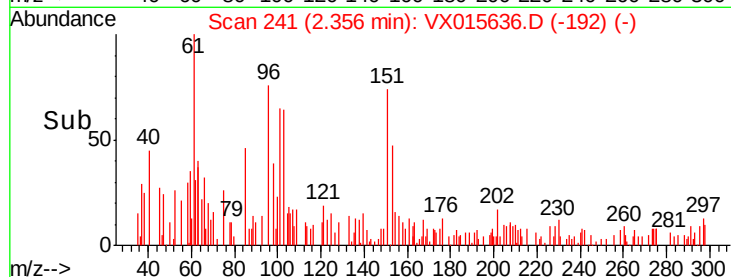
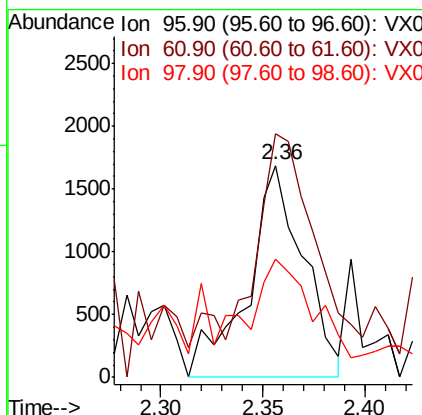
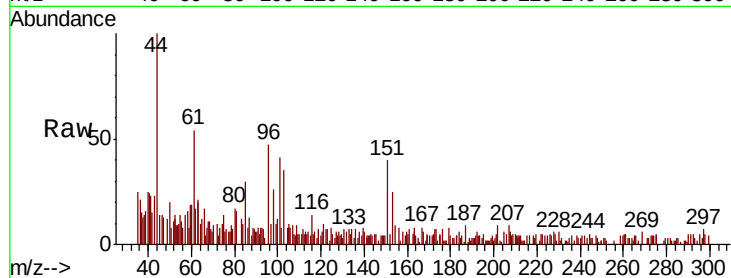
Lab File: VX015636.D

Acq: 10 Apr 2020 20:50

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB180-GW-238-240

Tot Ion: 96 Resp: 3211

Ion	Ratio	Lower	Upper
96	100		
61	84.3	135.7	203.5#
98	44.8	50.6	75.8#



#13

Acrolein

Concen: 0.313 ug/l

RT: 2.27 min Scan# 227

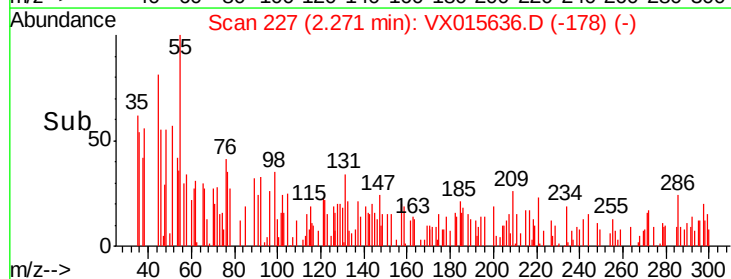
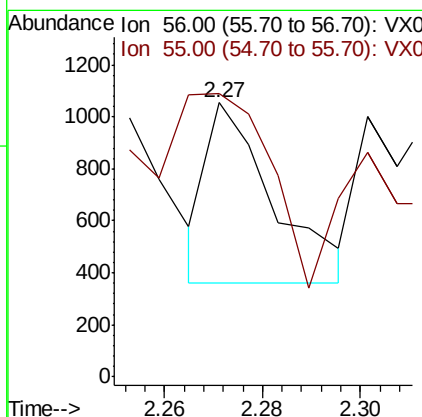
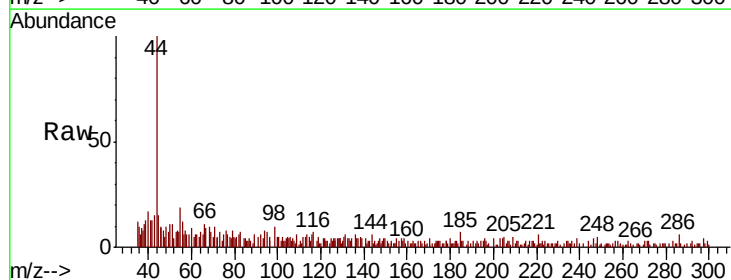
Delta R.T. 0.00 min

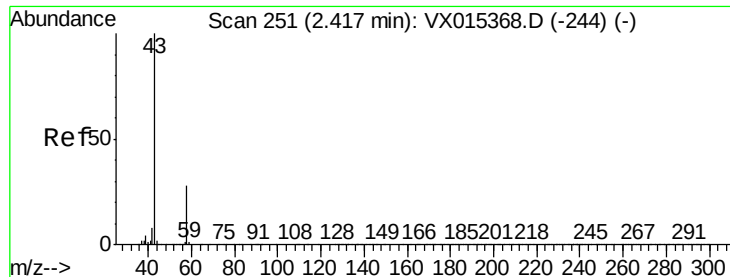
Lab File: VX015636.D

Acq: 10 Apr 2020 20:50

Tgt Ion: 56 Resp: 658

Ion	Ratio	Lower	Upper
56	100		
55	198.2	57.0	85.4#





#16

Acetone

Concen: 5.399 ug/l

RT: 2.42 min Scan# 251

Delta R.T. 0.00 min

Lab File: VX015636.D

Acq: 10 Apr 2020 20:50

Instrument :

MSVOA_X

ClientSampleId :

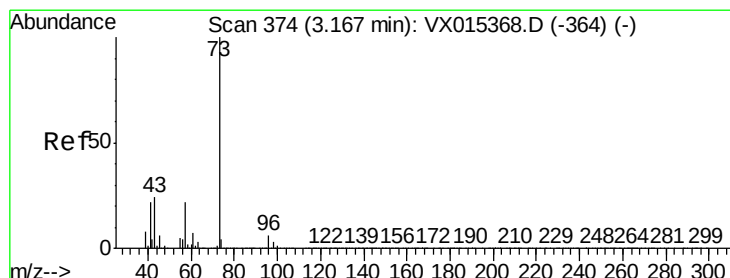
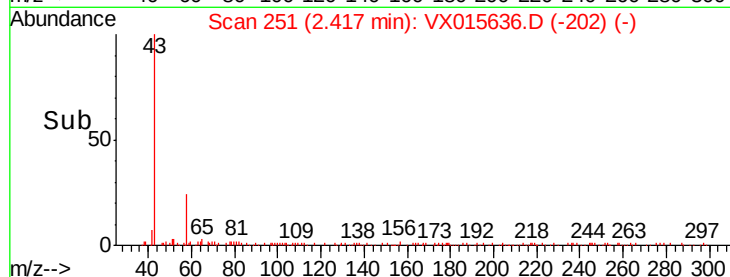
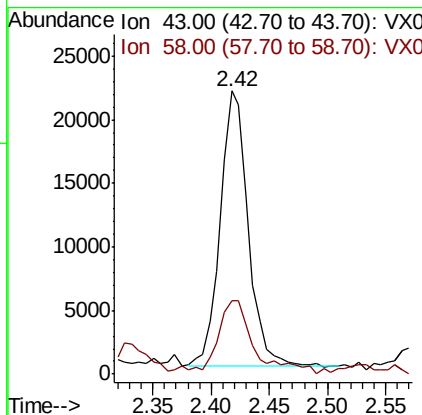
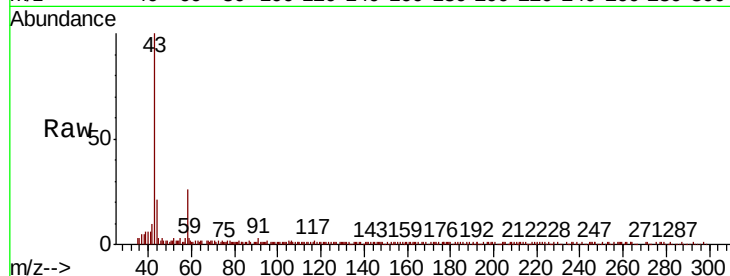
BP-VPB180-GW-238-240

Tot Ion: 43 Resp: 35791

Ion Ratio Lower Upper

43 100

58 24.3 22.1 33.1



#19

Methyl tert-butyl Ether

Concen: 0.226 ug/l

RT: 3.17 min Scan# 375

Delta R.T. 0.01 min

Lab File: VX015636.D

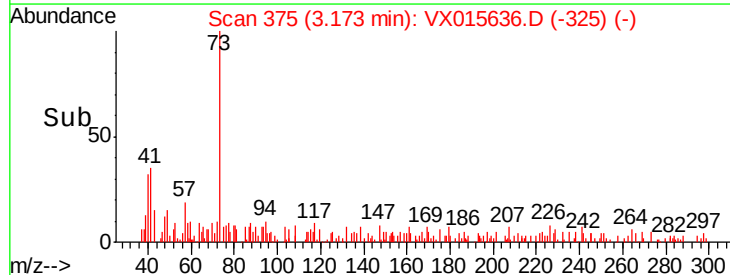
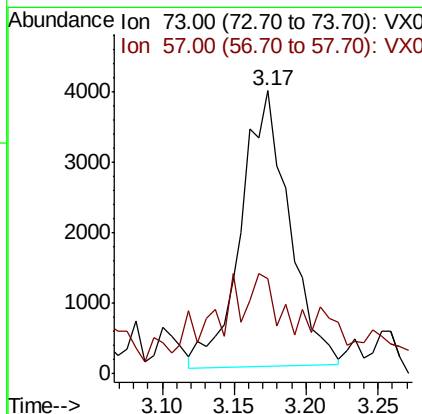
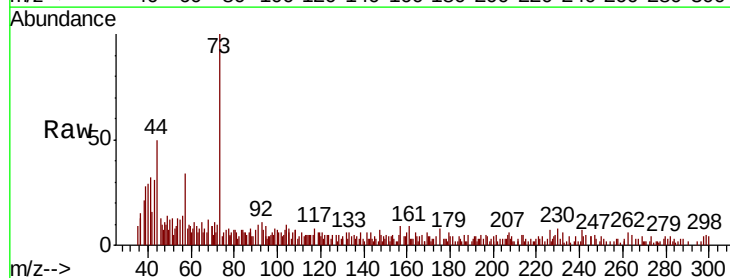
Acq: 10 Apr 2020 20:50

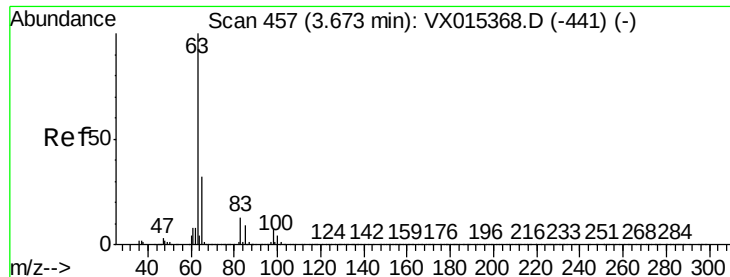
Tgt Ion: 73 Resp: 9065

Ion Ratio Lower Upper

73 100

57 16.1 17.9 26.9#





#24

1,1-Dichloroethane

Concen: 0.480 ug/l

RT: 3.67 min Scan# 457

Delta R.T. 0.00 min

Lab File: VX015636.D

Acq: 10 Apr 2020 20:50

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB180-GW-238-240

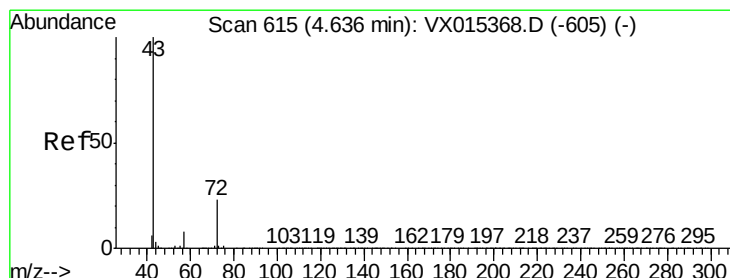
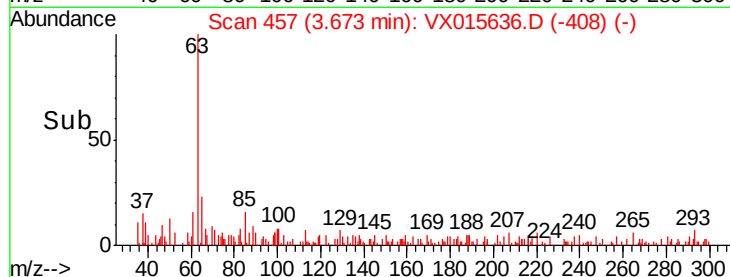
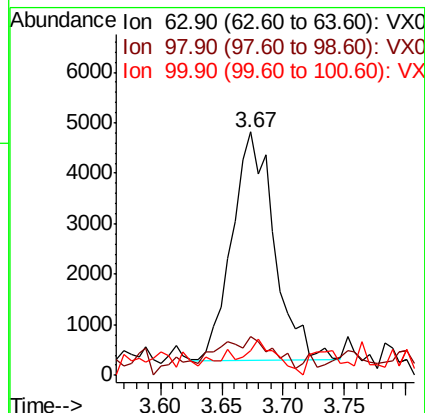
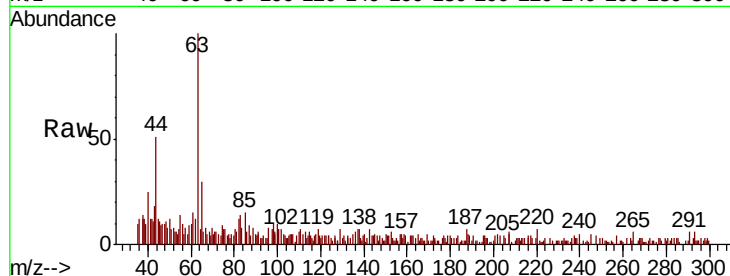
Tot Ion: 63 Resp: 10802

Ion Ratio Lower Upper

63 100

98 10.2 3.3 9.8#

100 13.9 2.1 6.5#



#25

2-Butanone

Concen: 0.306 ug/l

RT: 4.65 min Scan# 617

Delta R.T. 0.01 min

Lab File: VX015636.D

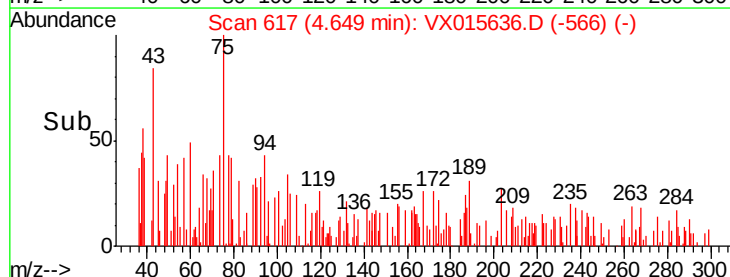
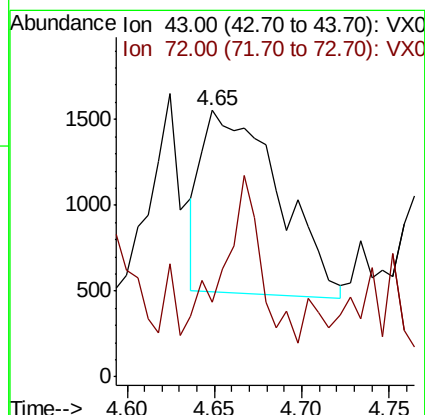
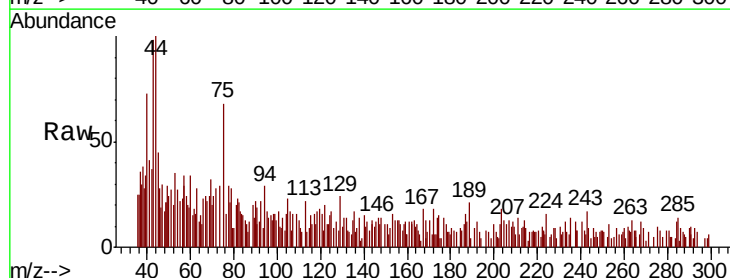
Acq: 10 Apr 2020 20:50

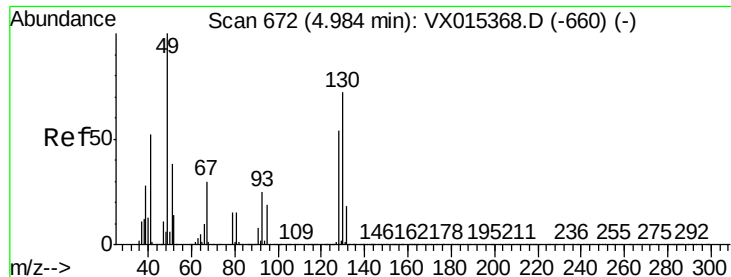
Tgt Ion: 43 Resp: 3263

Ion Ratio Lower Upper

43 100

72 8.4 19.0 28.4#





#28

Bromochloromethane

Concen: 0.206 ug/l

RT: 4.99 min Scan# 673

Delta R.T. 0.01 min

Lab File: VX015636.D

Acq: 10 Apr 2020 20:50

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB180-GW-238-240

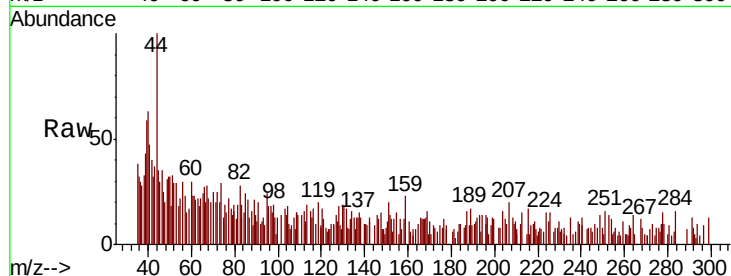
Tot Ion: 49 Resp: 2217

Ion Ratio Lower Upper

49 100

129 18.4 0.0 4.4#

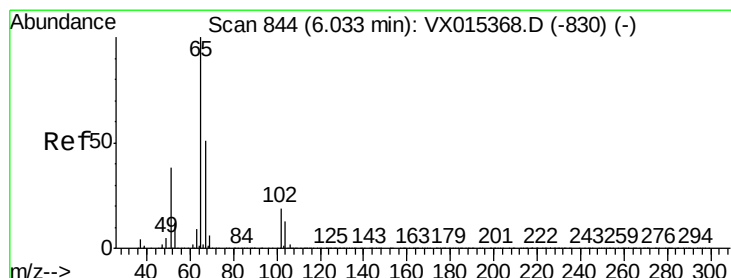
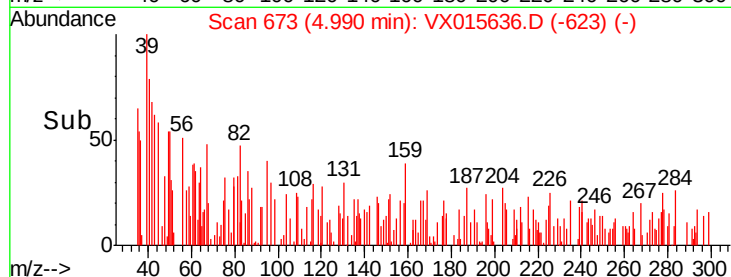
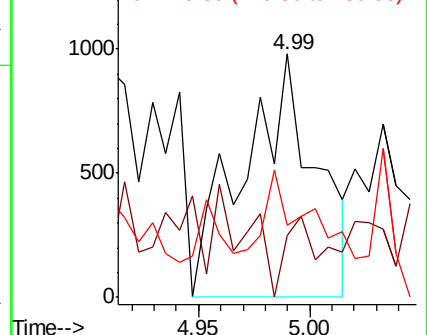
130 27.6 57.7 86.5#



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



#33

1,2-Dichloroethane-d4

Concen: 44.761 ug/l

RT: 6.04 min Scan# 845

Delta R.T. 0.01 min

Lab File: VX015636.D

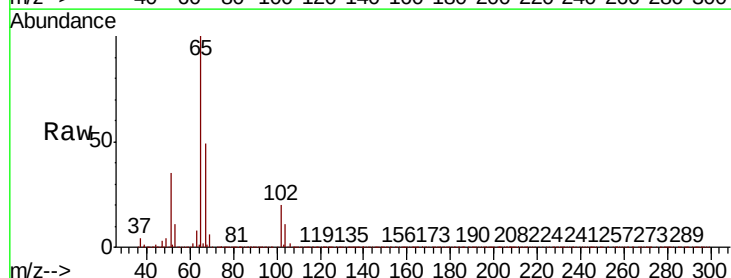
Acq: 10 Apr 2020 20:50

Tgt Ion: 65 Resp: 690673

Ion Ratio Lower Upper

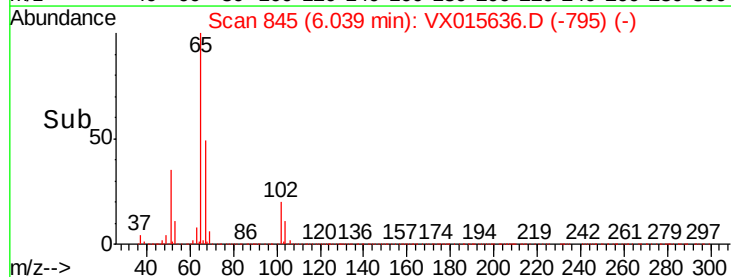
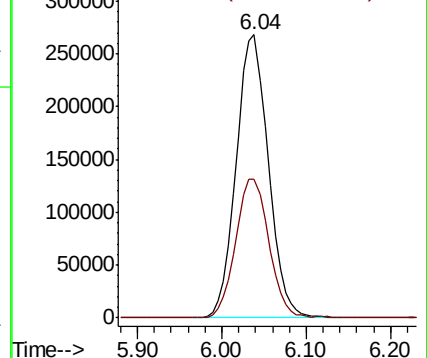
65 100

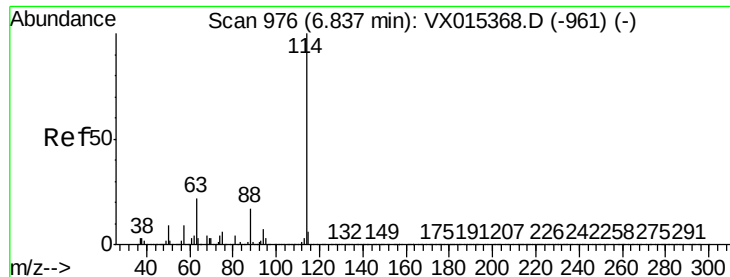
67 51.2 0.0 102.6



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: 6.84 min Scan# 976

Delta R.T. 0.00 min

Lab File: VX015636.D

Acq: 10 Apr 2020 20:50

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BP-VPB180-GW-238-240

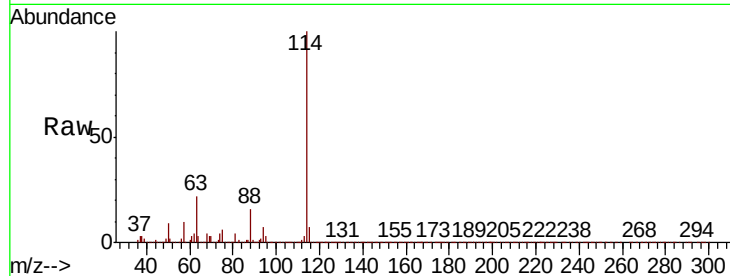
Tot Ion:114 Resp: 1679918

Ion Ratio Lower Upper

114 100

63 21.5 0.0 44.2

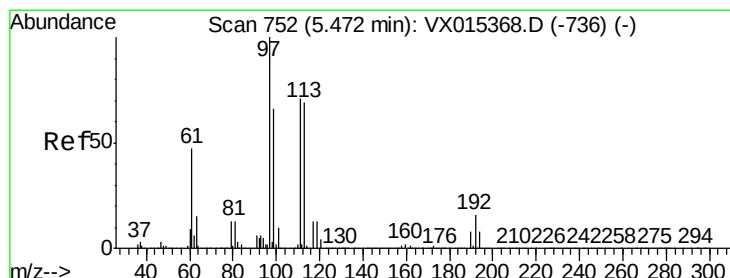
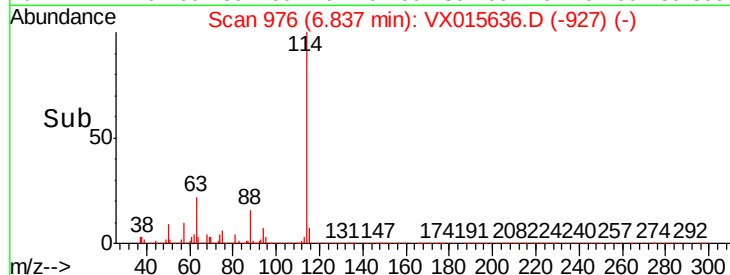
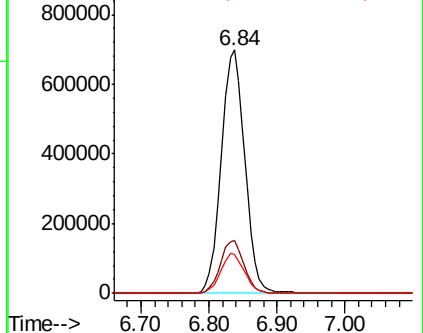
88 15.9 0.0 33.8



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: 47.510 ug/l

RT: 5.47 min Scan# 751

Delta R.T. -0.01 min

Lab File: VX015636.D

Acq: 10 Apr 2020 20:50

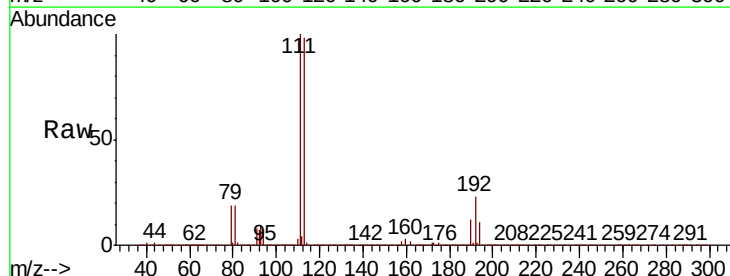
Tgt Ion:113 Resp: 510186

Ion Ratio Lower Upper

113 100

111 102.1 81.5 122.3

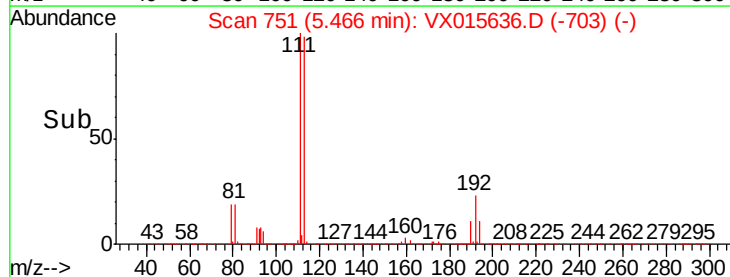
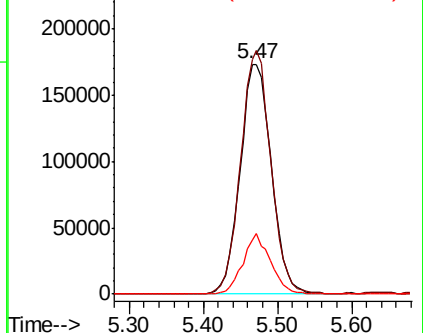
192 23.5 17.8 26.6

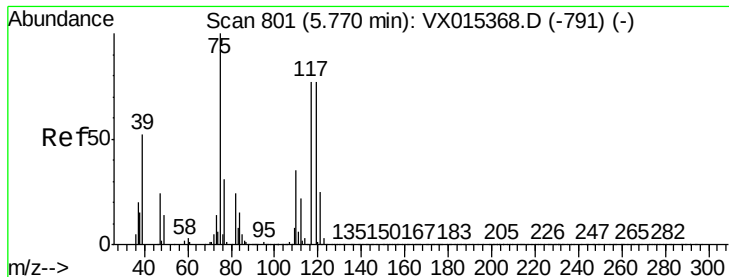


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

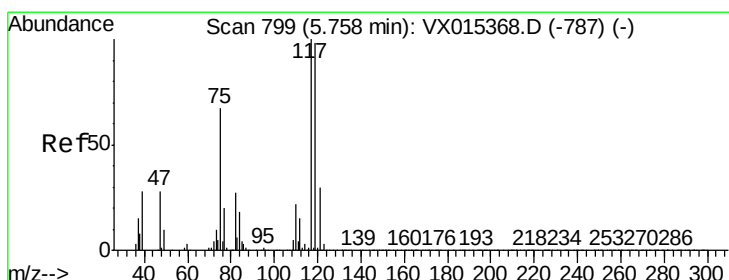
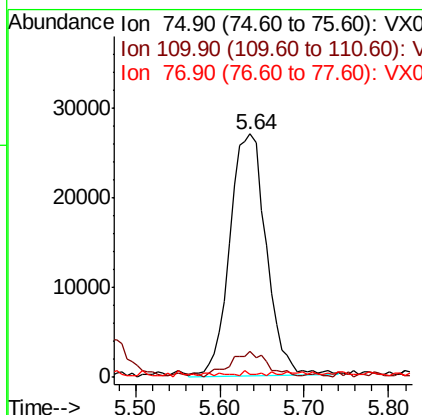
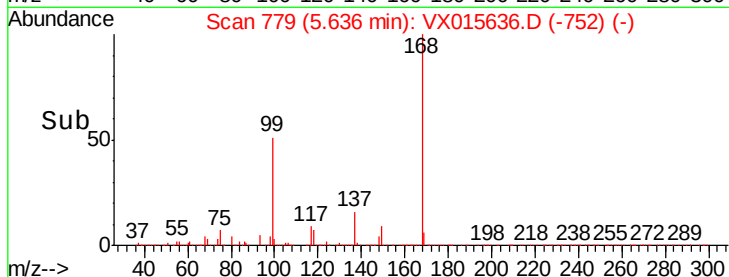
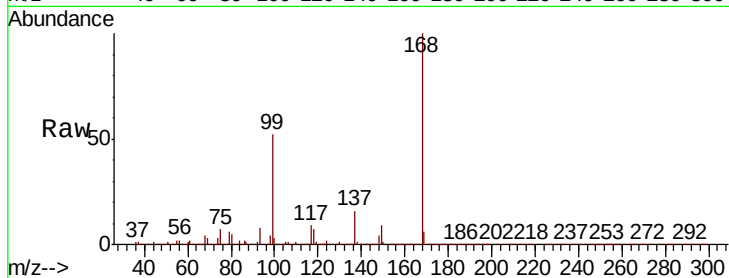




#36
 1,1-Dichloropropene
 Concen: 5.075 ug/l
 RT: 5.64 min Scan# 779
 Delta R.T. -0.13 min
 Lab File: VX015636.D
 Acq: 10 Apr 2020 20:50

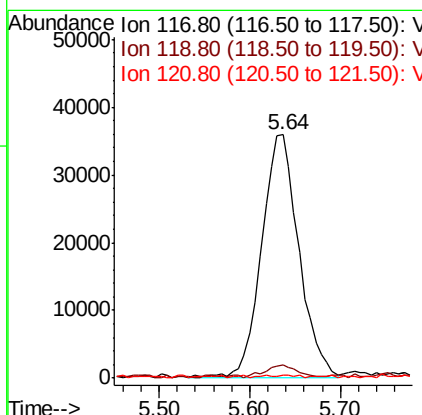
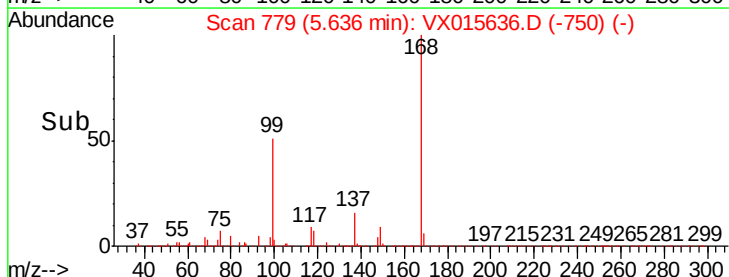
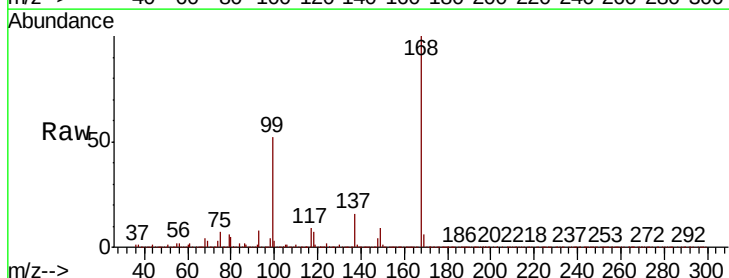
Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB180-GW-238-240

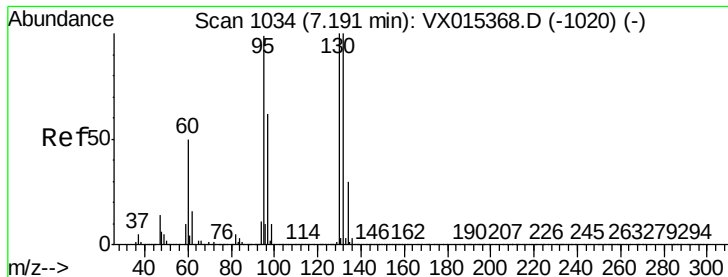
Tot Ion	Ratio	Lower	Upper
75	100		
110	11.5	17.1	51.3#
77	0.4	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 6.117 ug/l
 RT: 5.64 min Scan# 779
 Delta R.T. -0.12 min
 Lab File: VX015636.D
 Acq: 10 Apr 2020 20:50

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.1	78.0	117.0#
121	0.8	23.8	35.8#





#44

Trichloroethene

Concen: 2.126 ug/l

RT: 7.20 min Scan# 1035

Delta R.T. 0.01 min

Lab File: VX015636.D

Acq: 10 Apr 2020 20:50

Instrument :

MSVOA_X

ClientSampleId :

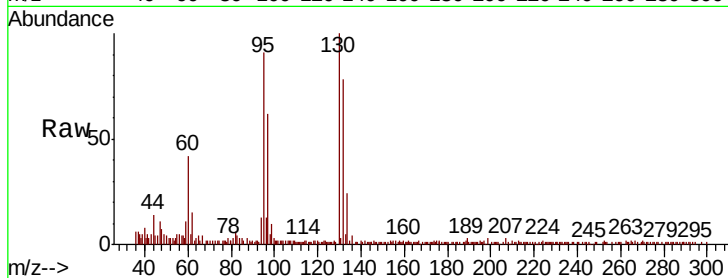
BP-VPB180-GW-238-240

Tot Ion:130 Resp: 26284

Ion Ratio Lower Upper

130 100

95 90.3 0.0 199.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.20

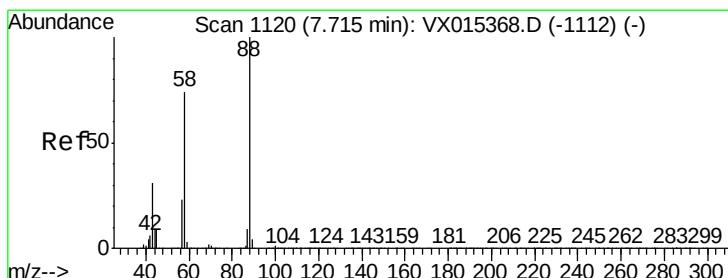
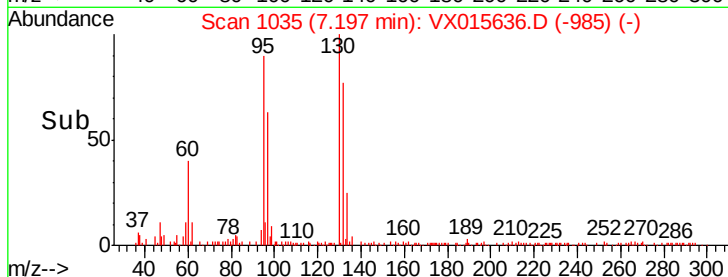
15000

10000

5000

0

Time-->



#49

1,4-Dioxane

Concen: 2.473 ug/l

RT: 7.73 min Scan# 1123

Delta R.T. 0.02 min

Lab File: VX015636.D

Acq: 10 Apr 2020 20:50

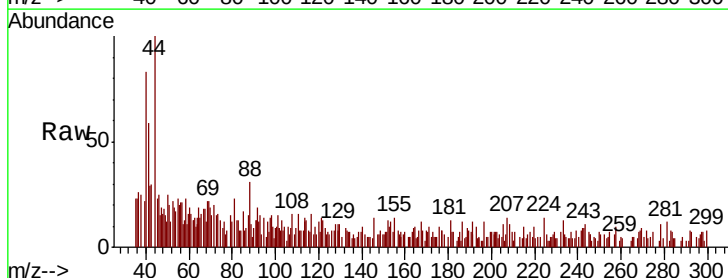
Tgt Ion: 88 Resp: 784

Ion Ratio Lower Upper

88 100

43 43.6 30.1 45.1

58 146.9 60.6 90.8#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

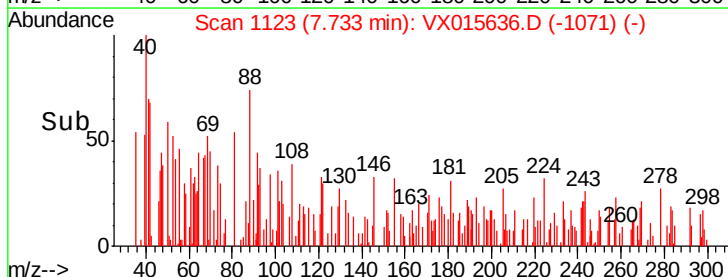
1500

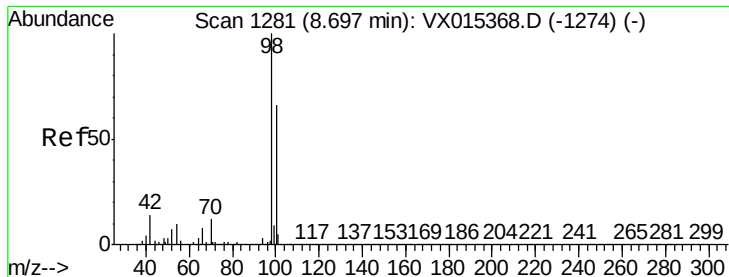
1000

500

0

Time-->





#50

Toluene-d8

Concen: 51.139 ug/l

RT: 8.70 min Scan# 1281

Delta R.T. 0.00 min

Lab File: VX015636.D

Acq: 10 Apr 2020 20:50

Instrument :

MSVOA_X

ClientSampleId :

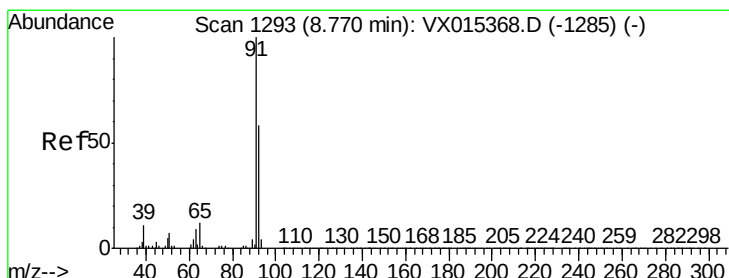
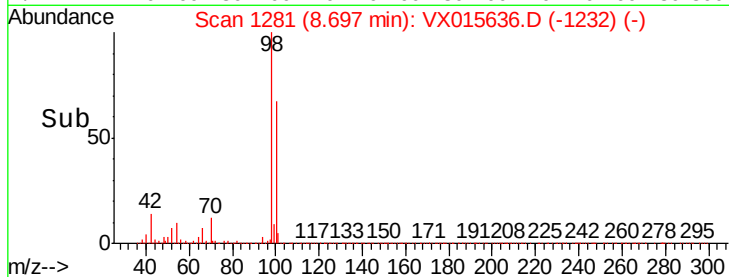
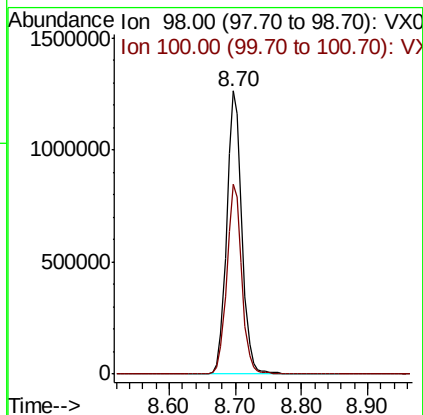
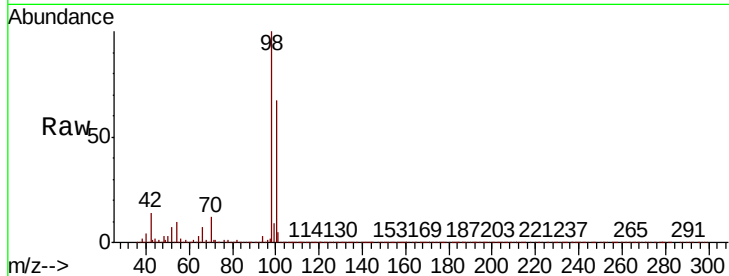
BP-VPB180-GW-238-240

Tot Ion: 98 Resp: 2021849

Ion Ratio Lower Upper

98 100

100 66.3 53.5 80.3



#52

Toluene

Concen: 0.298 ug/l

RT: 8.77 min Scan# 1293

Delta R.T. 0.00 min

Lab File: VX015636.D

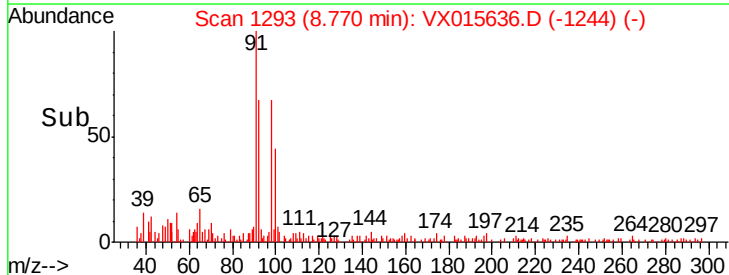
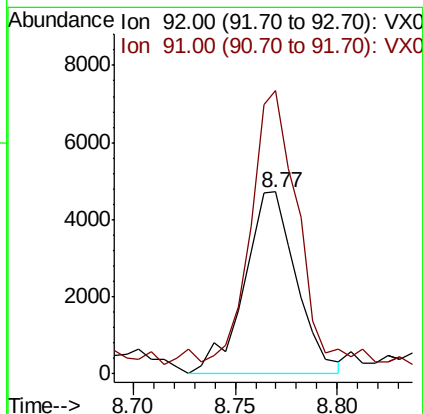
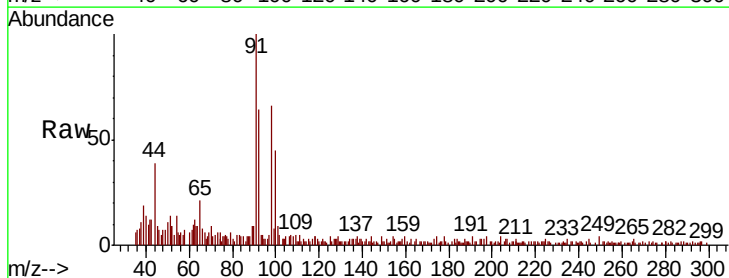
Acq: 10 Apr 2020 20:50

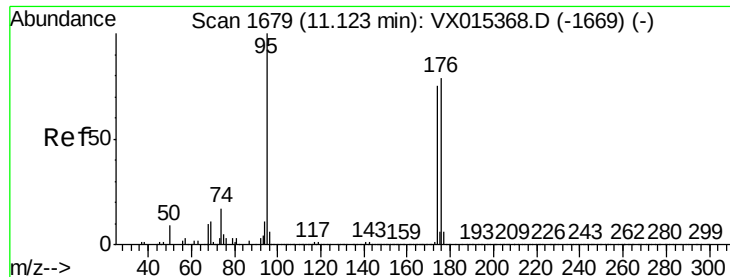
Tgt Ion: 92 Resp: 8344

Ion Ratio Lower Upper

92 100

91 135.2 136.6 205.0#

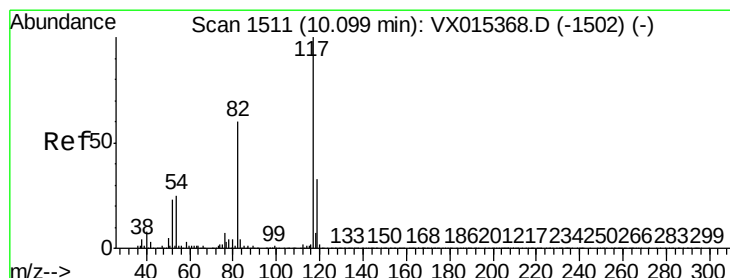
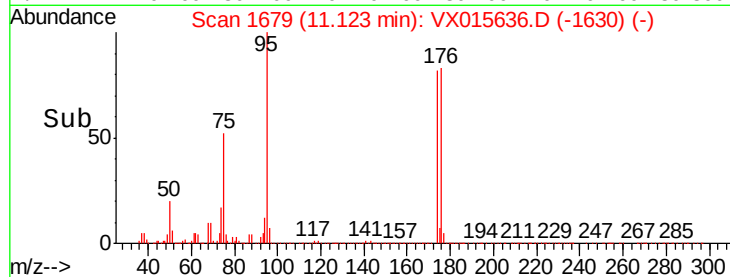
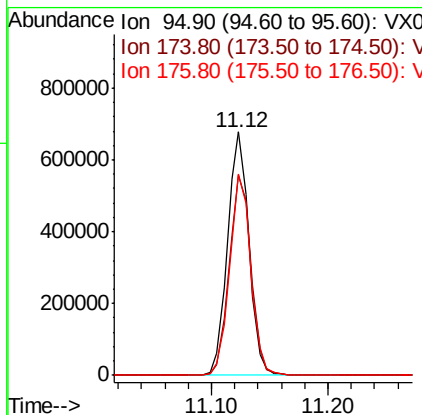
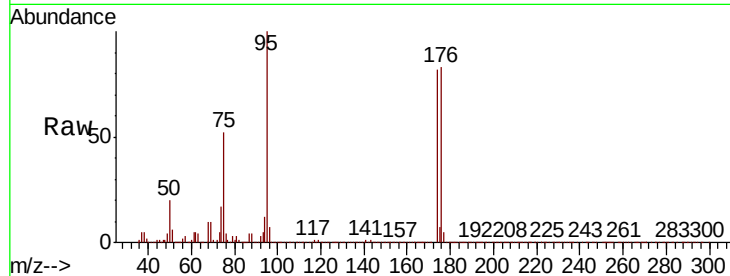




#62
4-Bromofluorobenzene
Concen: 53.571 ug/l
RT: 11.12 min Scan# 1679
Delta R.T. 0.00 min
Lab File: VX015636.D
Acq: 10 Apr 2020 20:50

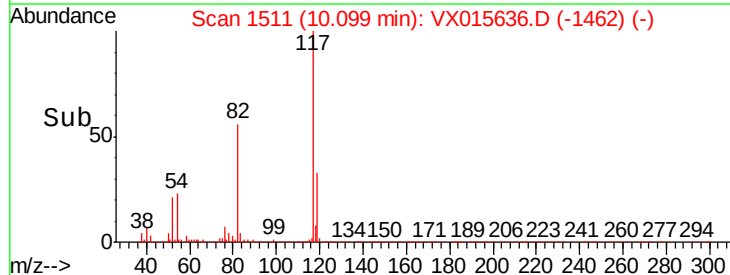
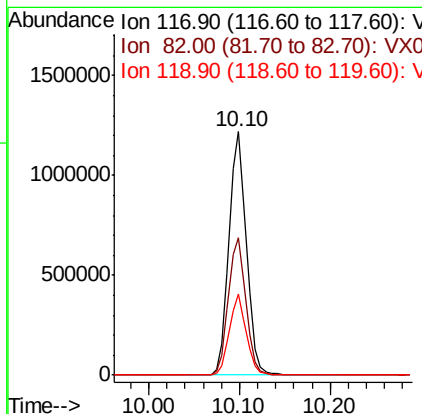
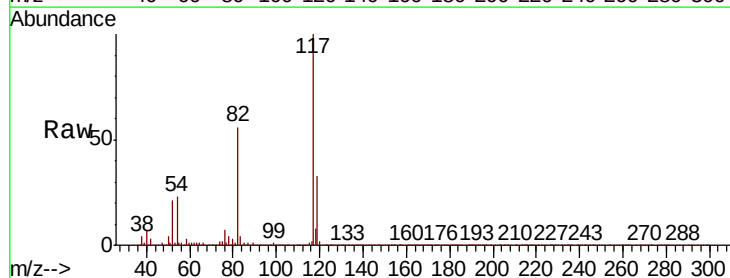
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB180-GW-238-240

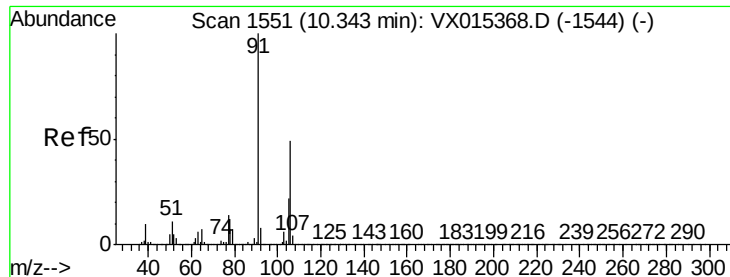
Tot Ion	Ratio	Lower	Upper
95	100		
174	84.1	0.0	158.6
176	82.0	0.0	159.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1511
Delta R.T. 0.00 min
Lab File: VX015636.D
Acq: 10 Apr 2020 20:50

Tgt Ion	Ratio	Lower	Upper
117	100		
82	56.2	47.8	71.8
119	33.1	26.8	40.2

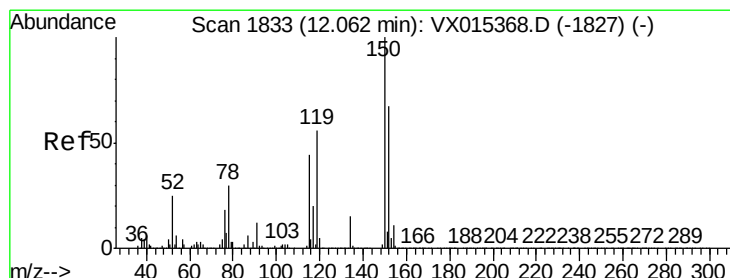
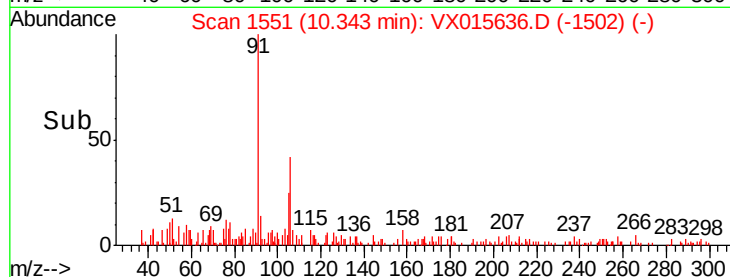
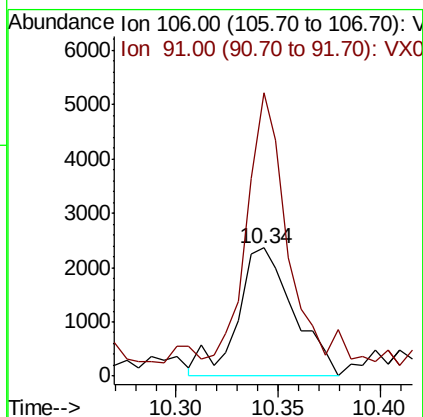
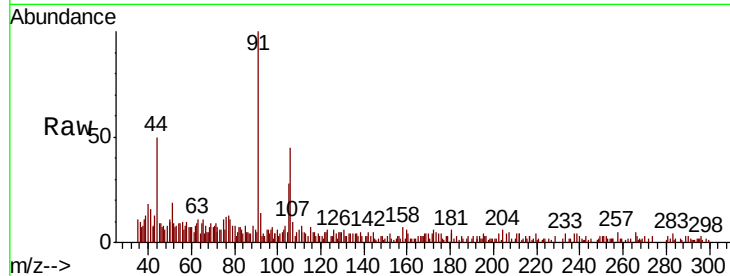




#68
m/p-Xvlenes
Concen: 0.211 ug/l
RT: 10.34 min Scan# 1551
Delta R.T. 0.00 min
Lab File: VX015636.D
Acq: 10 Apr 2020 20:50

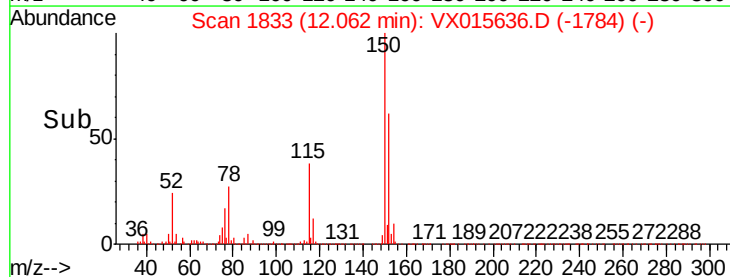
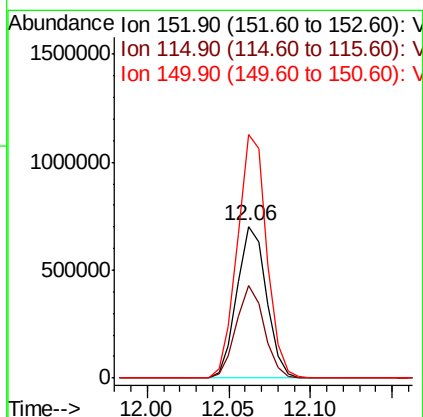
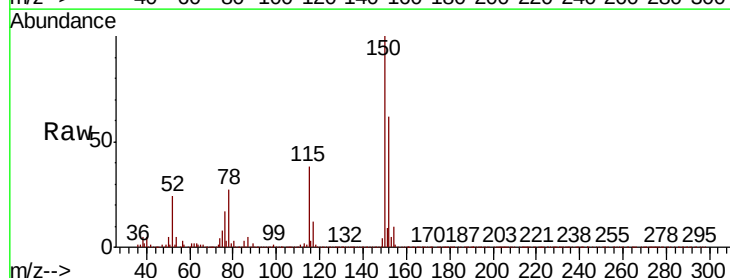
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB180-GW-238-240

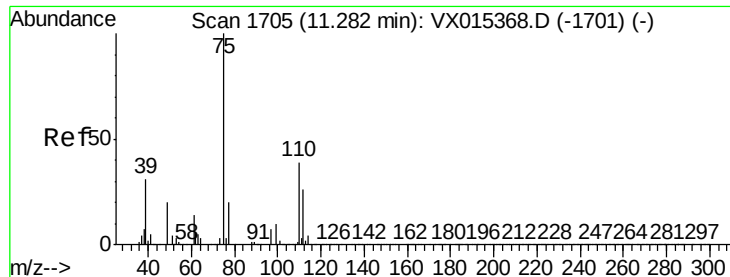
Tot Ion:106 Resp: 4530
Ion Ratio Lower Upper
106 100
91 150.9 163.4 245.0#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1833
Delta R.T. 0.00 min
Lab File: VX015636.D
Acq: 10 Apr 2020 20:50

Tgt Ion:152 Resp: 888256
Ion Ratio Lower Upper
152 100
115 58.4 39.0 116.9
150 159.2 0.0 340.8





#76

1,2,3-Trichloropropane

Concen: 24.253 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.16 min

Lab File: VX015636.D

Acq: 10 Apr 2020 20:50

Instrument :

MSVOA_X

ClientSampleId :

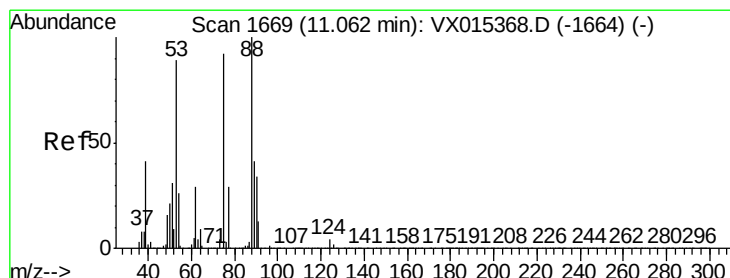
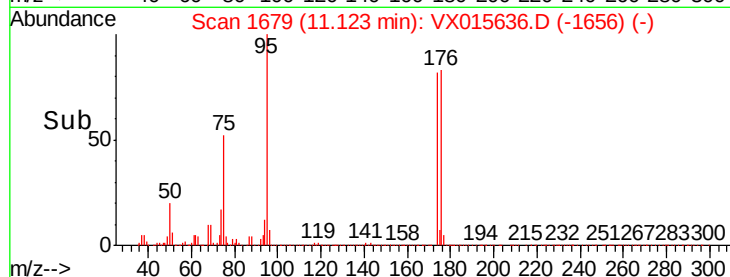
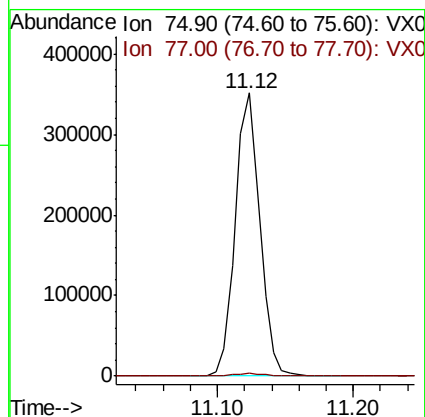
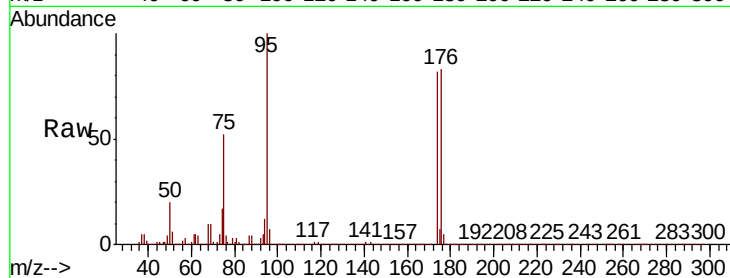
BP-VPB180-GW-238-240

Tot Ion: 75 Resp: 443006

Ion Ratio Lower Upper

75 100

77 1.1 21.2 63.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 58.193 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.06 min

Lab File: VX015636.D

Acq: 10 Apr 2020 20:50

Tgt Ion: 75 Resp: 443006

Ion Ratio Lower Upper

75 100

53 0.1 80.1 120.1#

89 0.2 36.1 54.1#

