

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080420\
 Data File : VX017770.D
 Acq On : 04 Aug 2020 15:02
 Operator : JC/SP
 Sample : L3556-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB179-GW-378-380

Quant Time: Aug 05 01:48:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X072320W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 24 05:48:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	583682	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	862976	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	840554	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	408173	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	377818	50.39	ug/l	0.00
Spiked Amount			Recovery	=	100.78%	
35) Dibromofluoromethane	5.47	113	285108	49.40	ug/l	0.00
Spiked Amount			Recovery	=	98.80%	
50) Toluene-d8	8.70	98	1021035	49.04	ug/l	0.00
Spiked Amount			Recovery	=	98.08%	
62) 4-Bromofluorobenzene	11.12	95	397237	47.67	ug/l	0.00
Spiked Amount			Recovery	=	95.34%	

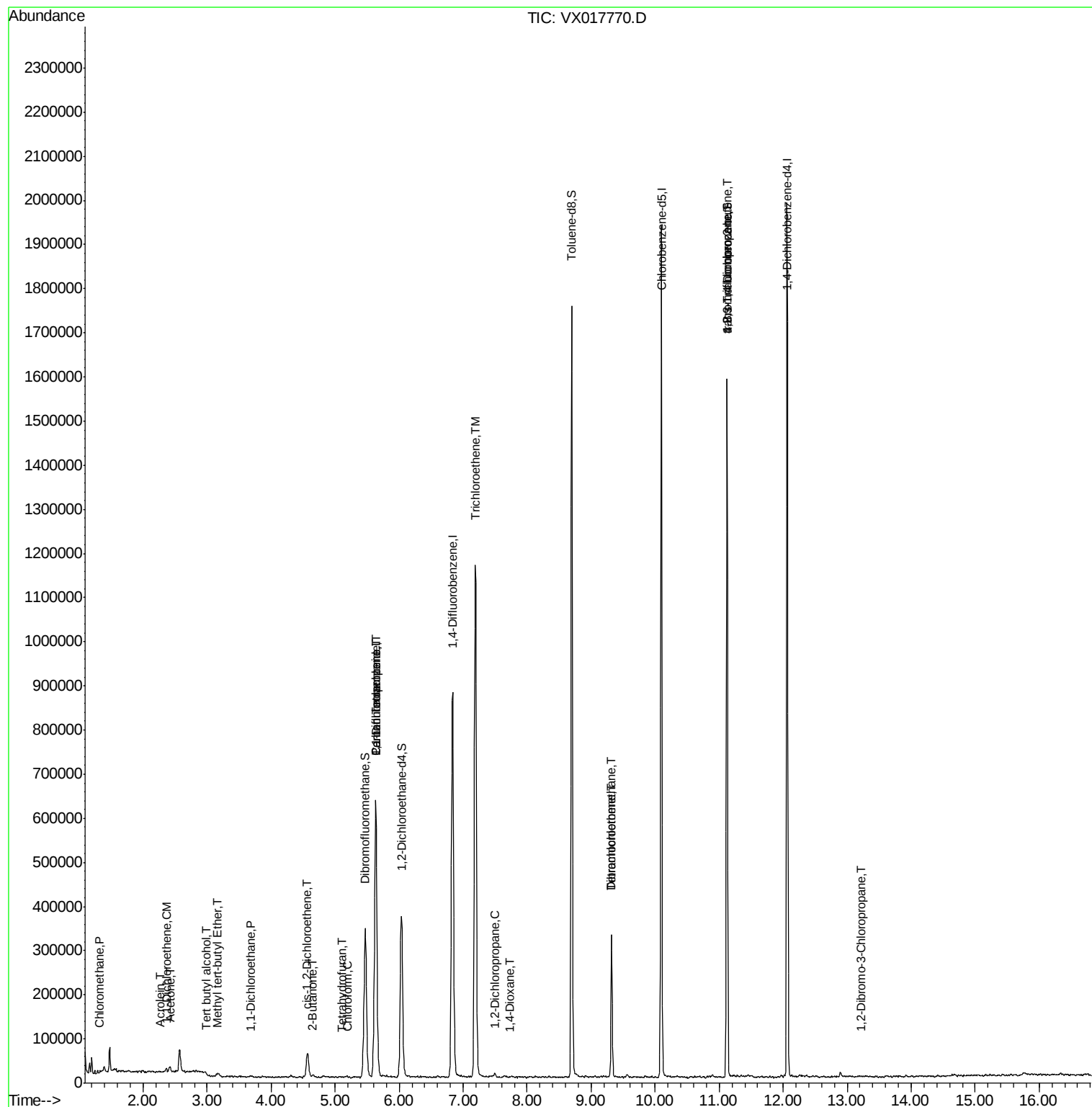
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	757	Below Cal		87
3) Chloromethane	1.31	50	1969	0.638	ug/l #	85
5) Bromomethane	1.64	94	425	Below Cal	#	69
6) Chloroethane	1.73	64	428	Below Cal	#	73
8) Diethyl Ether	2.32	74	274	Below Cal		59
11) Tert butyl alcohol	3.00	59	558	0.353	ug/l #	1
12) 1,1-Dichloroethene	2.36	96	3330	0.552	ug/l #	56
13) Acrolein	2.28	56	445	4.511	ug/l	98
16) Acetone	2.42	43	14232	4.313	ug/l	94
19) Methyl tert-butyl Ether	3.17	73	9359	0.449	ug/l #	87
20) Methylene Chloride	2.83	84	820	Below Cal	#	78
24) 1,1-Dichloroethane	3.68	63	3865	0.333	ug/l #	86
25) 2-Butanone	4.64	43	2306	0.492	ug/l #	68
27) cis-1,2-Dichloroethene	4.56	96	35078	5.000	ug/l	86
29) Tetrahydrofuran	5.10	42	588	0.202	ug/l #	49
30) Chloroform	5.20	83	2386	0.201	ug/l	95
36) 1,1-Dichloropropene	5.63	75	42771	5.168	ug/l #	52
38) Carbon Tetrachloride	5.63	117	58762	5.846	ug/l #	19
44) Trichloroethene	7.19	130	465294	67.097	ug/l	100
45) 1,2-Dichloropropane	7.50	63	3208	0.488	ug/l #	88
49) 1,4-Dioxane	7.72	88	460	3.239	ug/l #	84
60) Dibromochloromethane	9.32	129	55742	6.918	ug/l #	11
64) Tetrachloroethene	9.32	164	61330	8.129	ug/l	98
76) 1,2,3-Trichloropropane	11.12	75	200094	23.831	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	200094	60.049	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	13.22	75	106	2.617	ug/l	91

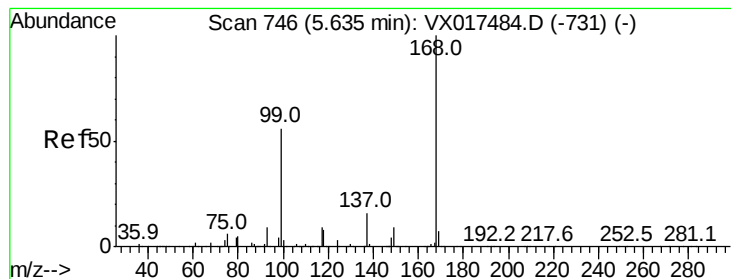
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Jul 24 05:48:09 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX017770.D

Acq: 04 Aug 2020 15:02

Instrument :

MSVOA_X

ClientSampleId :

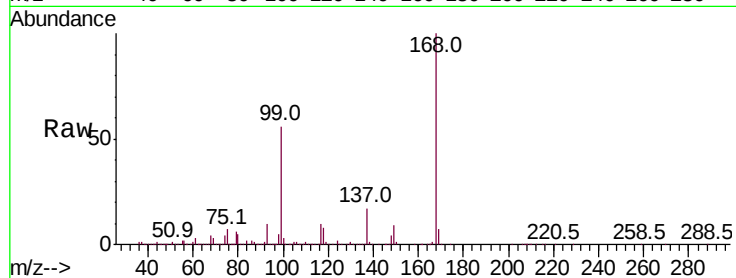
BP-VPB179-GW-378-380

Tot Ion:168 Resp: 583682

Ion Ratio Lower Upper

168 100

99 56.2 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

250000

200000

150000

100000

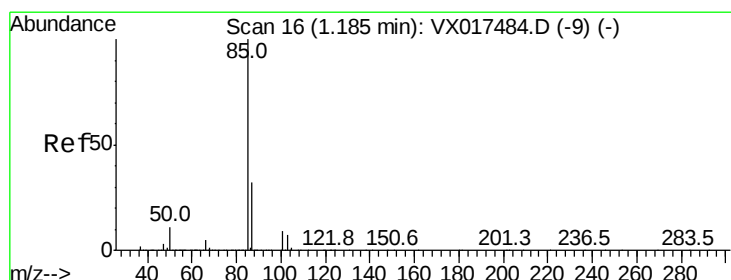
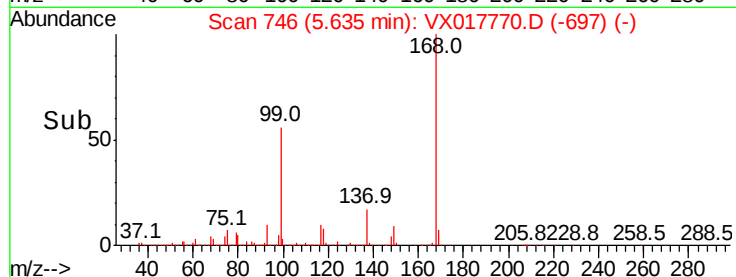
50000

0

5.50 5.60 5.70

5.63

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 18

Delta R.T. 0.01 min

Lab File: VX017770.D

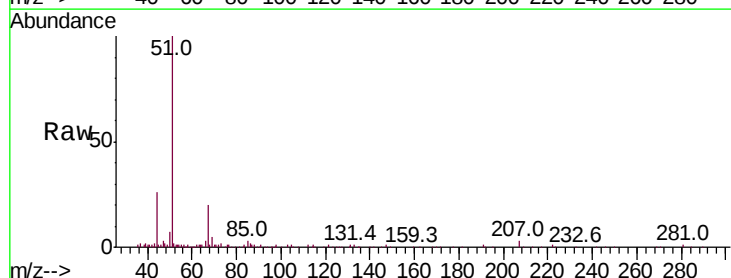
Acq: 04 Aug 2020 15:02

Tgt Ion: 85 Resp: 757

Ion Ratio Lower Upper

85 100

87 39.4 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

800

600

400

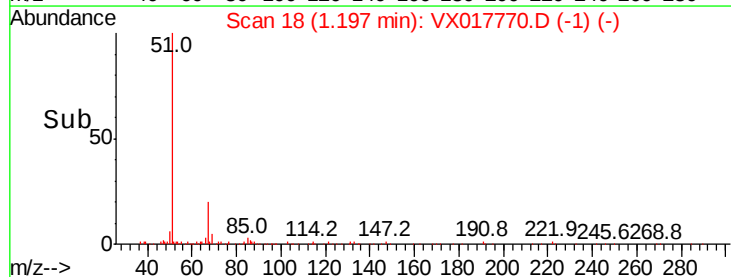
200

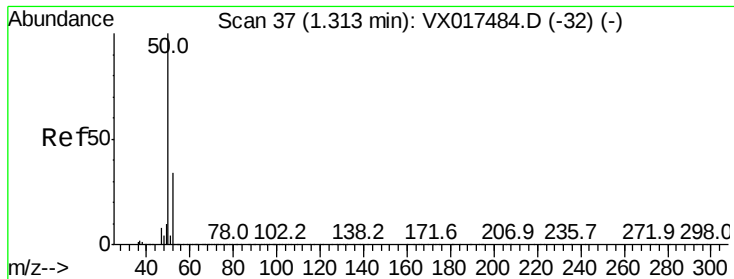
0

1.15 1.20

1.20

Time-->





#3

Chloromethane

Concen: 0.638 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX017770.D

Acq: 04 Aug 2020 15:02

Instrument :

MSVOA_X

ClientSampleId :

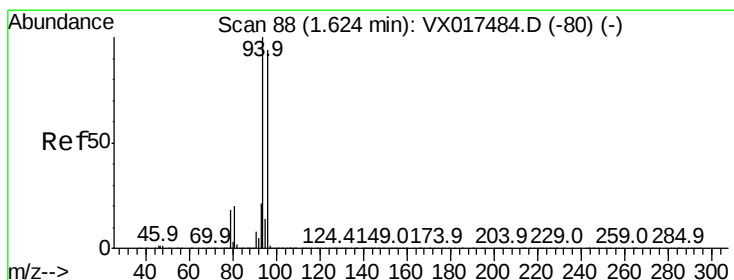
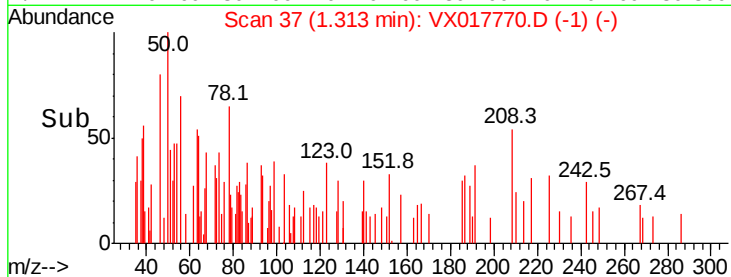
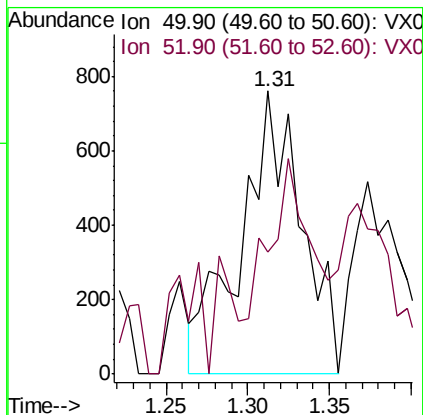
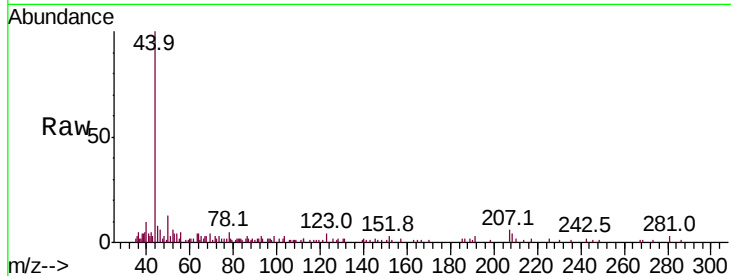
BP-VPB179-GW-378-380

Tot Ion: 50 Resp: 1969

Ion Ratio Lower Upper

50 100

52 24.2 25.9 38.9#



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX017770.D

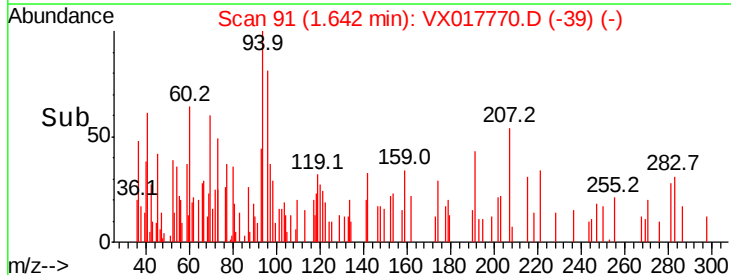
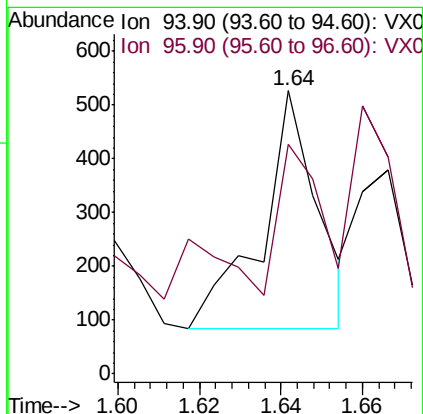
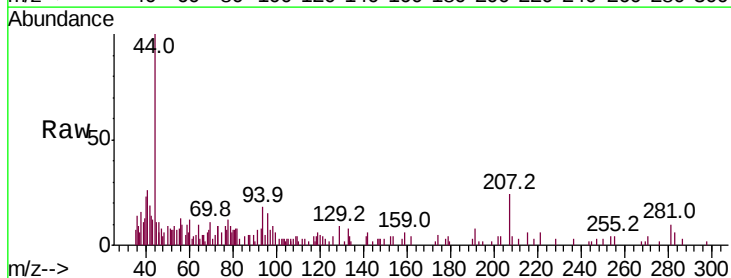
Acq: 04 Aug 2020 15:02

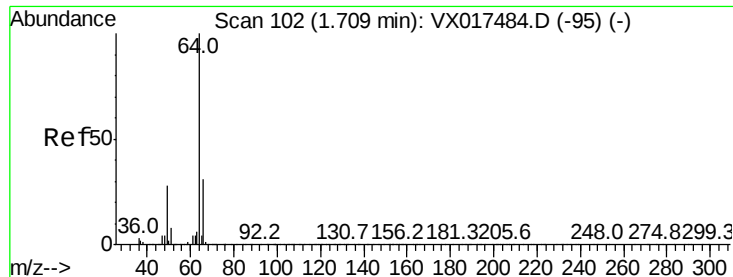
Tgt Ion: 94 Resp: 425

Ion Ratio Lower Upper

94 100

96 62.7 74.1 111.1#





#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 105

Delta R.T. 0.02 min

Lab File: VX017770.D

Acq: 04 Aug 2020 15:02

Instrument :

MSVOA_X

ClientSampleId :

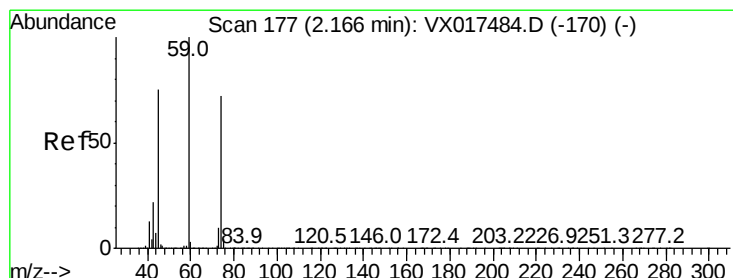
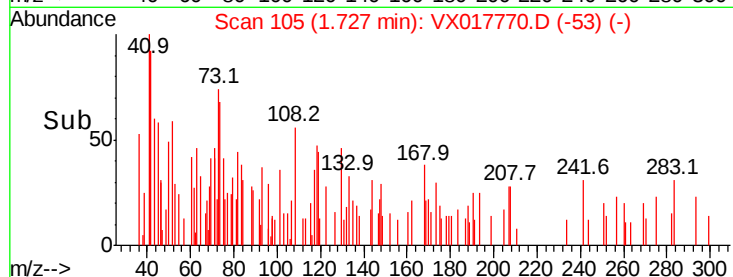
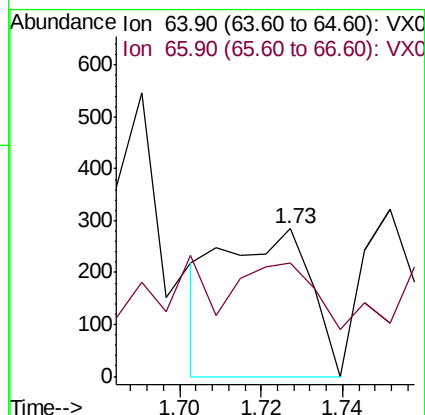
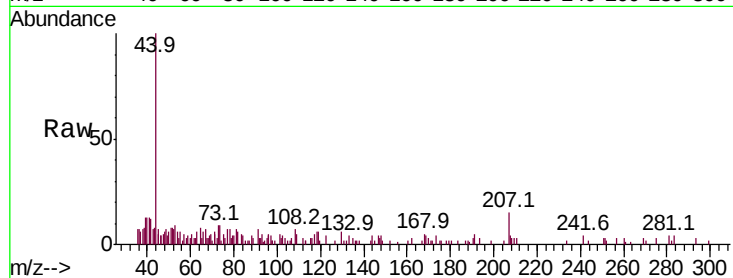
BP-VPB179-GW-378-380

Tot Ion: 64 Resp: 428

Ion Ratio Lower Upper

64 100

66 45.8 24.9 37.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.32 min Scan# 203

Delta R.T. 0.16 min

Lab File: VX017770.D

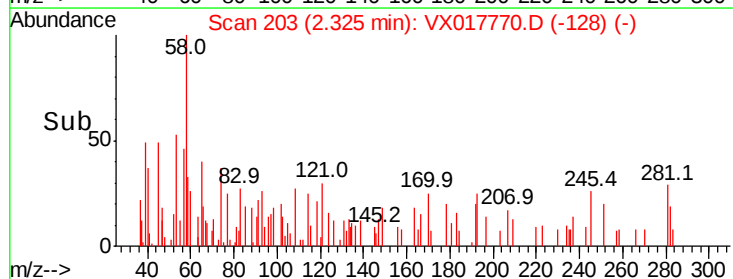
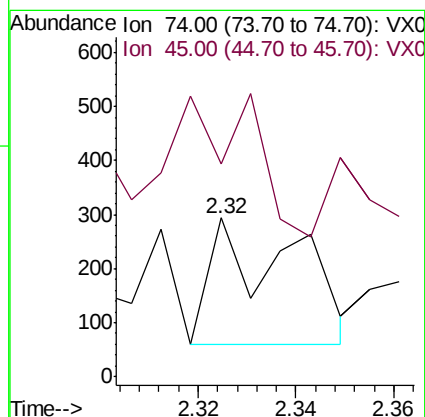
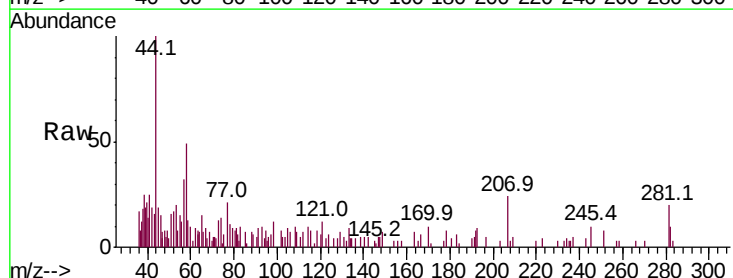
Acq: 04 Aug 2020 15:02

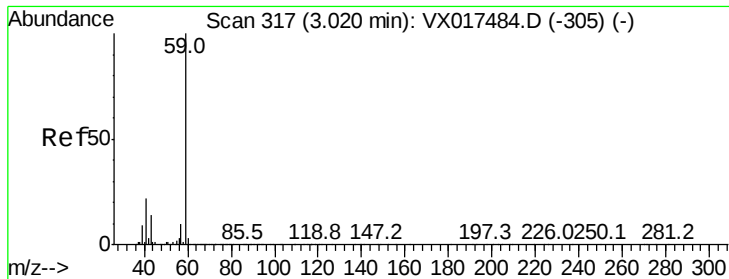
Tgt Ion: 74 Resp: 274

Ion Ratio Lower Upper

74 100

45 142.7 50.8 152.5





#11

Tert butyl alcohol

Concen: 0.353 ug/l

RT: 3.00 min Scan# 313

Delta R.T. -0.02 min

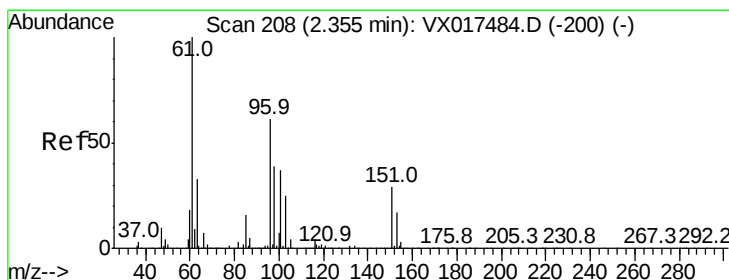
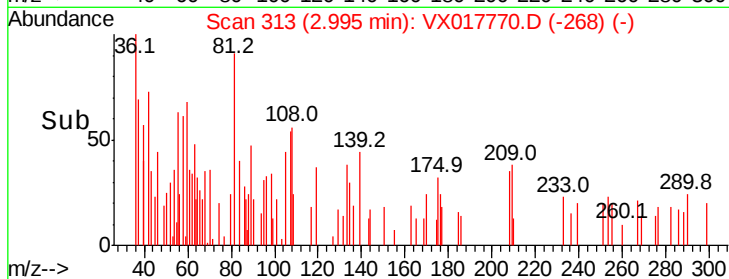
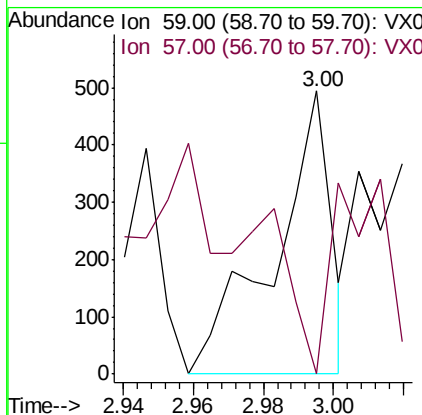
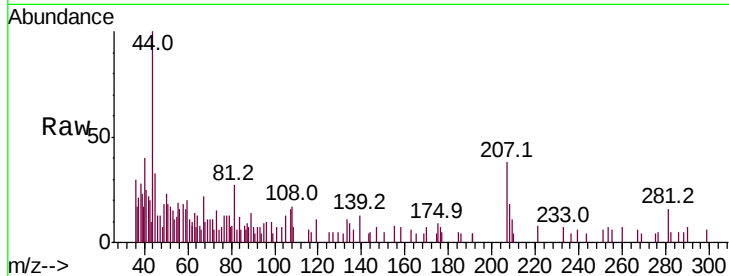
Lab File: VX017770.D

Acq: 04 Aug 2020 15:02

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB179-GW-378-380

Tot Ion: 59 Resp: 558

Ion	Ratio	Lower	Upper
59	100		
57	73.3	8.6	12.8#



#12

1,1-Dichloroethene

Concen: 0.552 ug/l

RT: 2.36 min Scan# 209

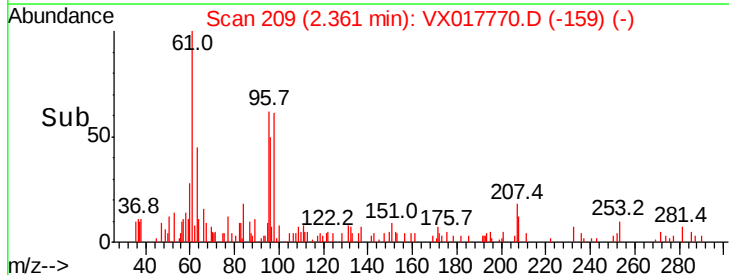
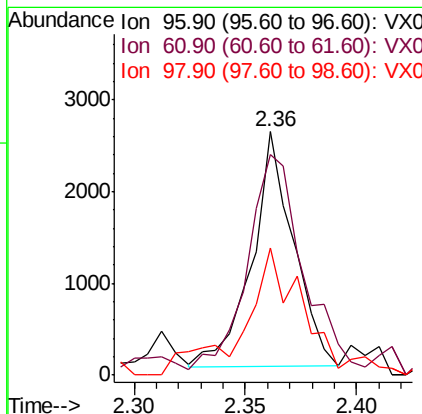
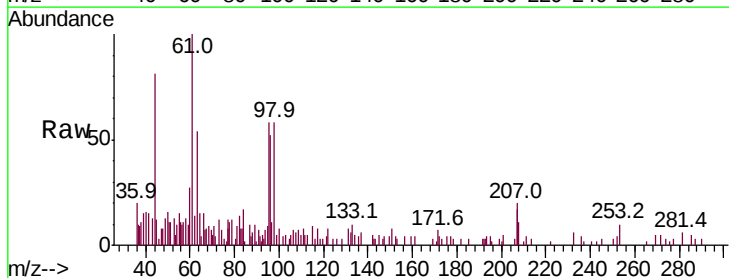
Delta R.T. 0.01 min

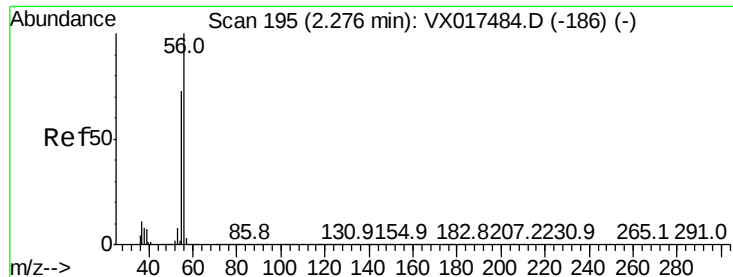
Lab File: VX017770.D

Acq: 04 Aug 2020 15:02

Tgt Ion: 96 Resp: 3330

Ion	Ratio	Lower	Upper
96	100		
61	92.1	134.0	201.0#
98	51.8	51.0	76.4





#13

Acrolein

Concen: 4.511 ug/l

RT: 2.28 min Scan# 195

Delta R.T. -0.00 min

Lab File: VX017770.D

Acq: 04 Aug 2020 15:02

Instrument :

MSVOA_X

ClientSampleId :

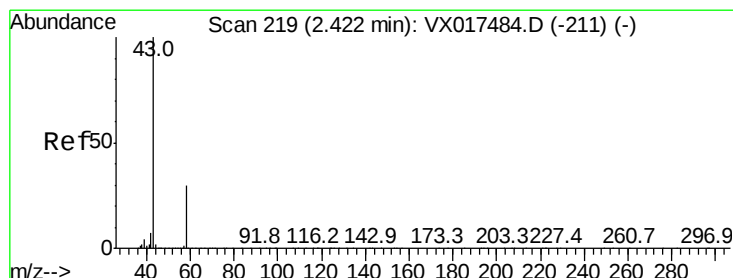
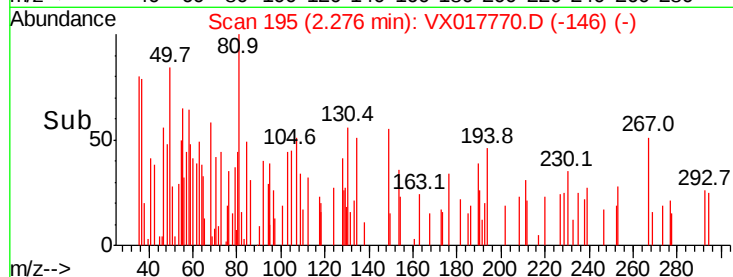
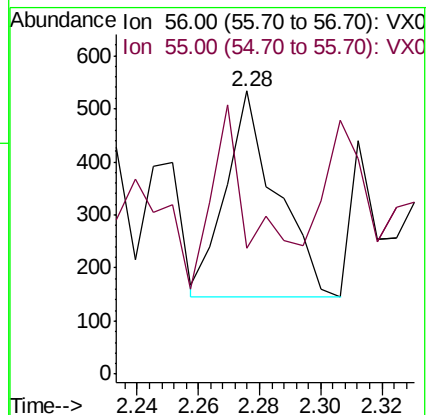
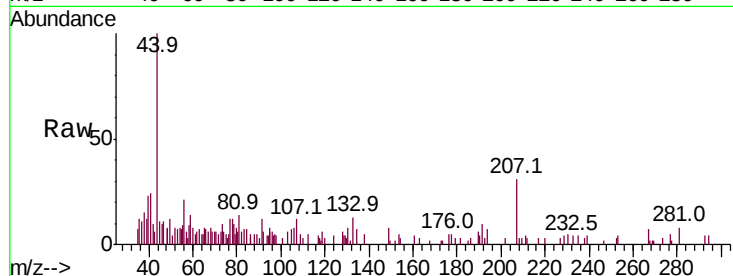
BP-VPB179-GW-378-380

Tot Ion: 56 Resp: 445

Ion Ratio Lower Upper

56 100

55 73.5 57.4 86.2



#16

Acetone

Concen: 4.313 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX017770.D

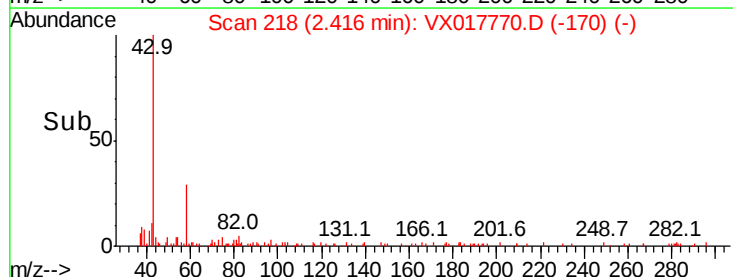
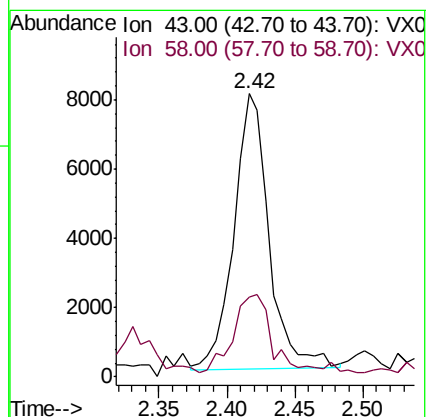
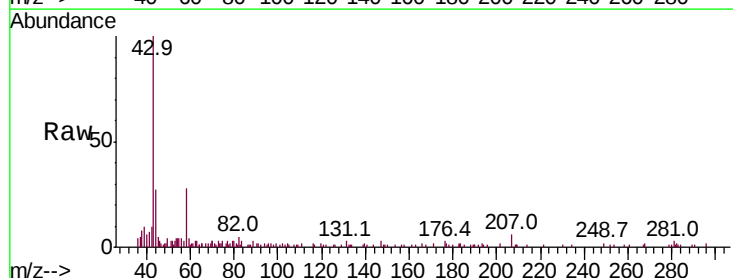
Acq: 04 Aug 2020 15:02

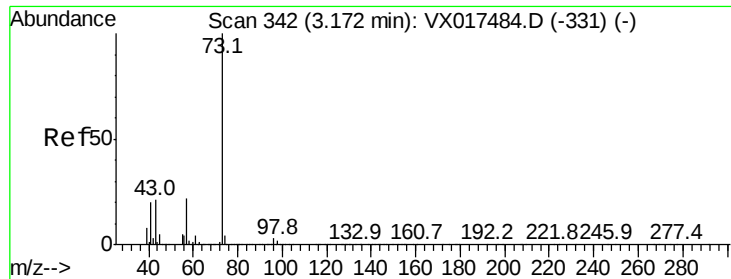
Tgt Ion: 43 Resp: 14232

Ion Ratio Lower Upper

43 100

58 27.2 24.2 36.4

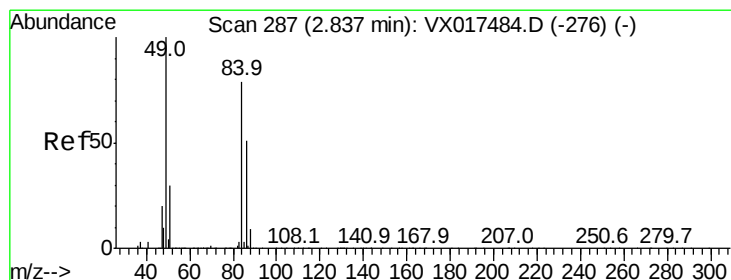
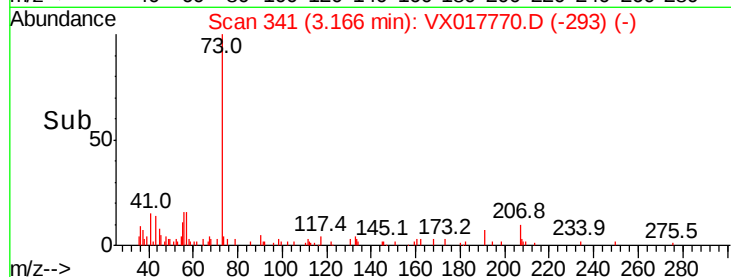
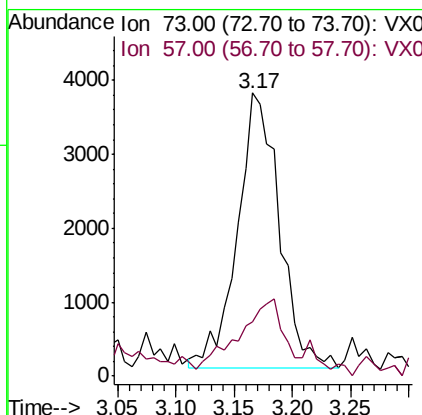
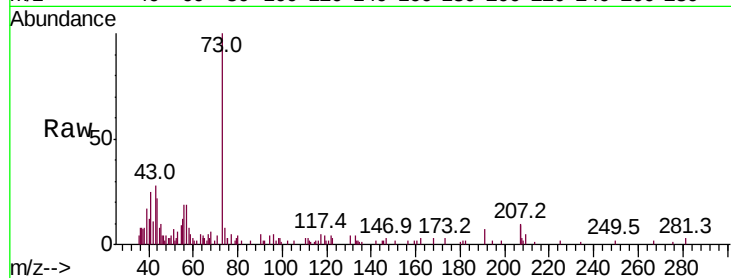




#19
Methvl tert-butvl Ether
Concen: 0.449 ug/l
RT: 3.17 min Scan# 341
Delta R.T. -0.01 min
Lab File: VX017770.D
Acq: 04 Aug 2020 15:02

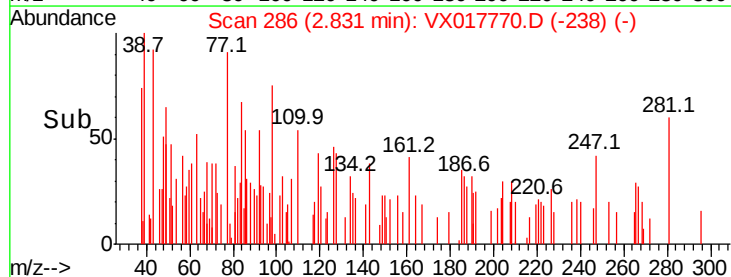
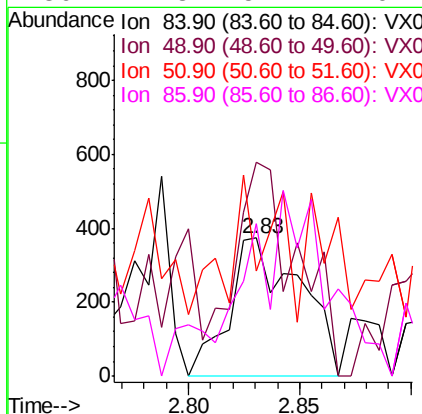
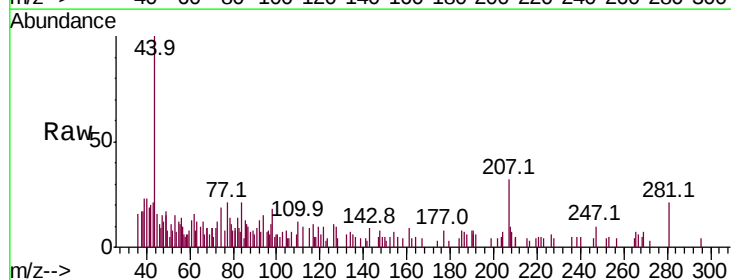
Instrument :
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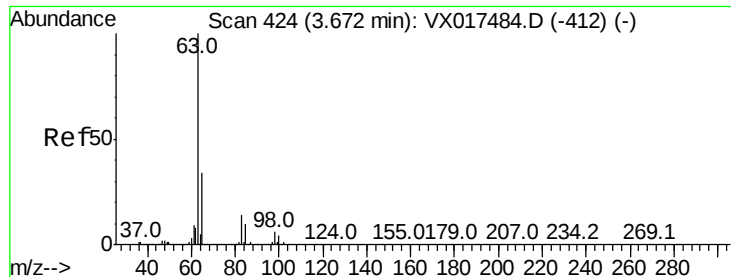
Tot Ion: 73 Resp: 9359
Ion Ratio Lower Upper
73 100
57 15.3 17.0 25.4#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.83 min Scan# 286
Delta R.T. -0.01 min
Lab File: VX017770.D
Acq: 04 Aug 2020 15:02

Tgt Ion: 84 Resp: 820
Ion Ratio Lower Upper
84 100
49 154.5 100.3 150.5#
51 31.8 30.5 45.7
86 47.3 51.1 76.7#





#24

1,1-Dichloroethane

Concen: 0.333 ug/l

RT: 3.68 min Scan# 426

Delta R.T. 0.01 min

Lab File: VX017770.D

Acq: 04 Aug 2020 15:02

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB179-GW-378-380

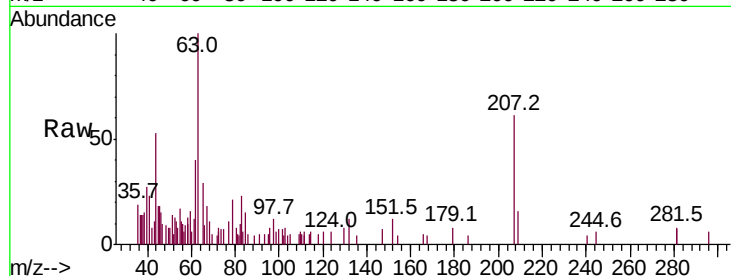
Tot Ion: 63 Resp: 3865

Ion Ratio Lower Upper

63 100

98 12.3 3.4 10.1#

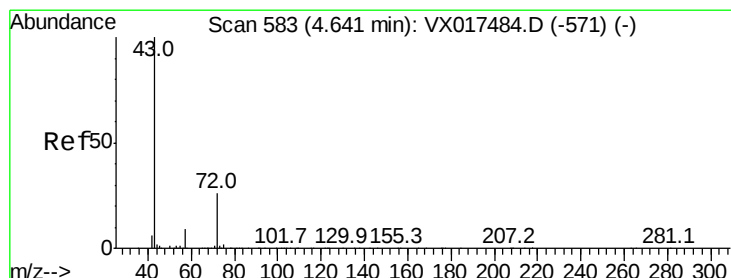
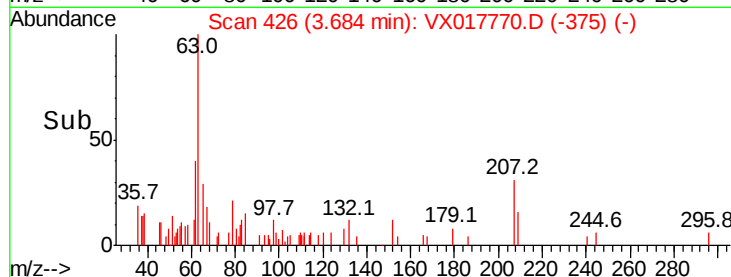
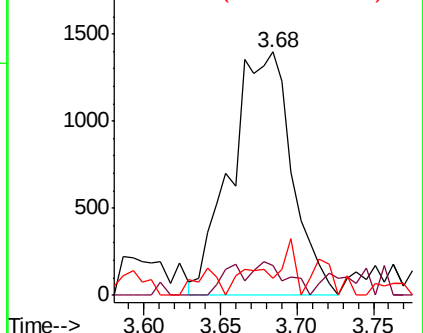
100 6.9 1.9 5.7#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



#25

2-Butanone

Concen: 0.492 ug/l

RT: 4.64 min Scan# 583

Delta R.T. -0.00 min

Lab File: VX017770.D

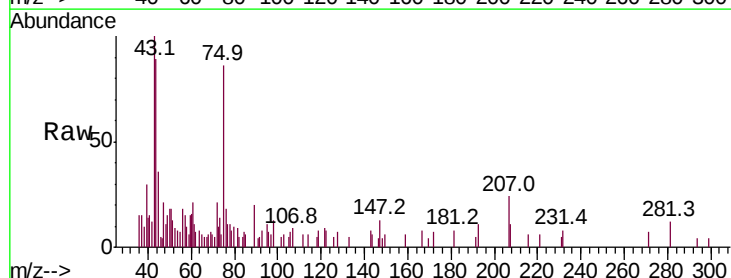
Acq: 04 Aug 2020 15:02

Tgt Ion: 43 Resp: 2306

Ion Ratio Lower Upper

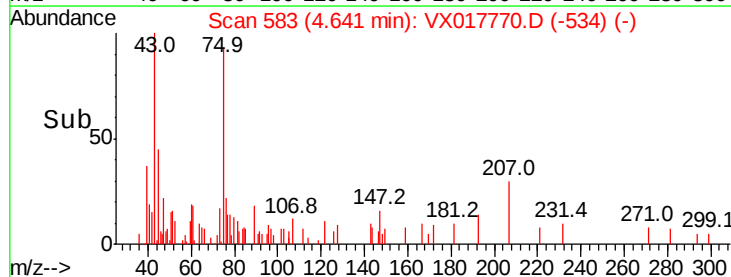
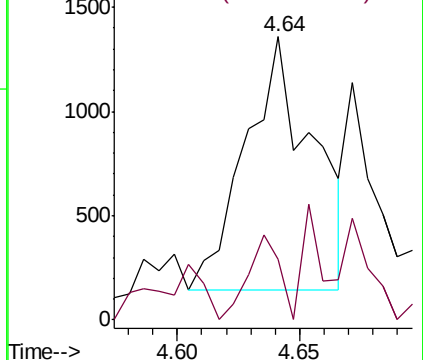
43 100

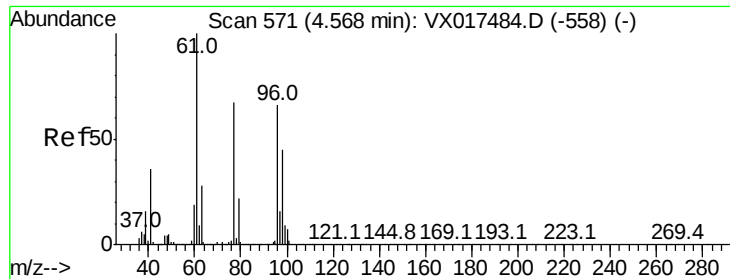
72 8.0 19.0 28.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#27

cis-1,2-Dichloroethene

Concen: 5.000 ug/l

RT: 4.56 min Scan# 570

Delta R.T. -0.01 min

Lab File: VX017770.D

Acq: 04 Aug 2020 15:02

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB179-GW-378-380

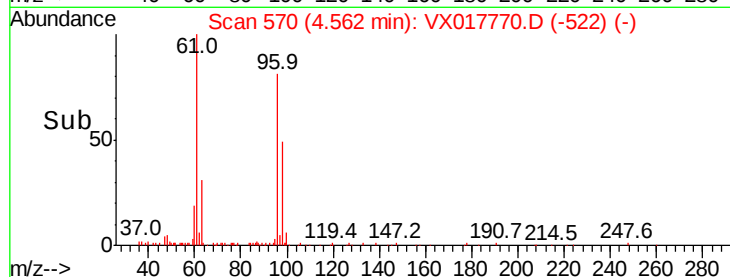
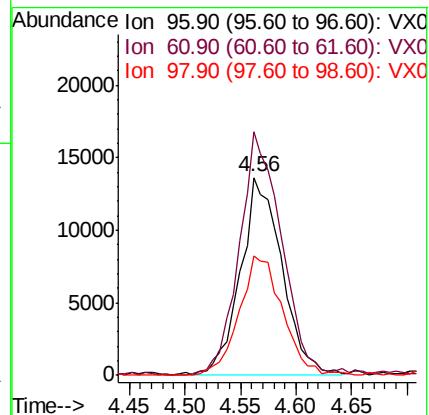
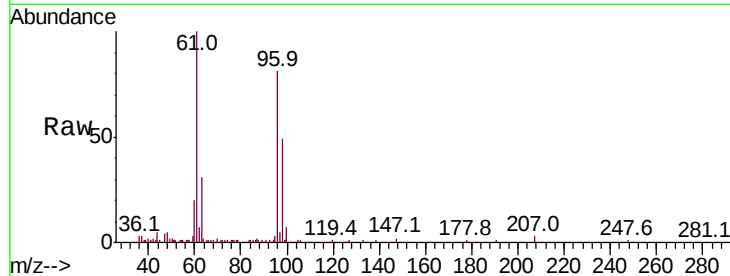
Tot Ion: 96 Resp: 35078

Ion Ratio Lower Upper

96 100

61 127.1 0.0 301.2

98 63.2 0.0 130.0



#29

Tetrahydrofuran

Concen: 0.202 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX017770.D

Acq: 04 Aug 2020 15:02

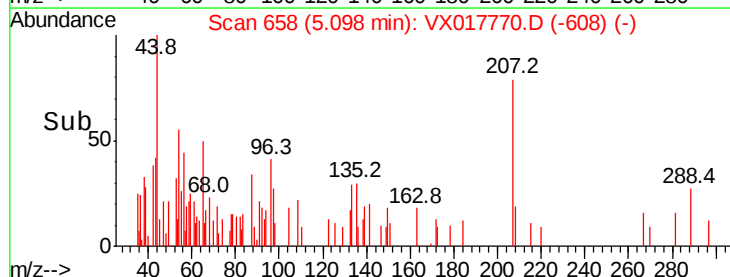
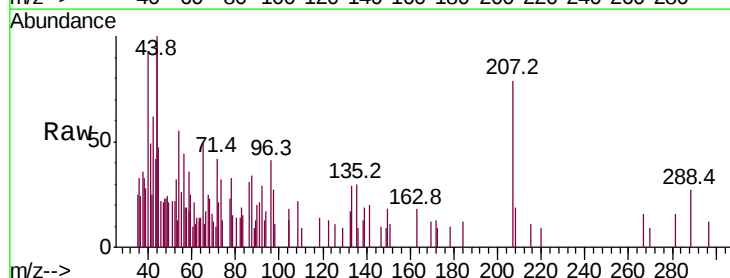
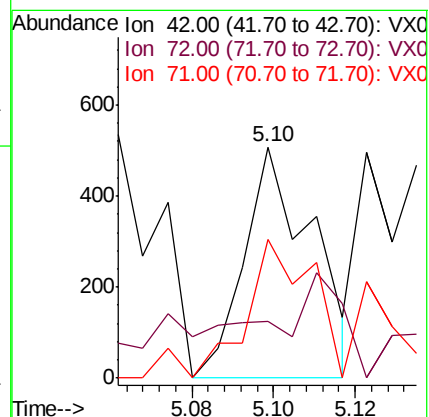
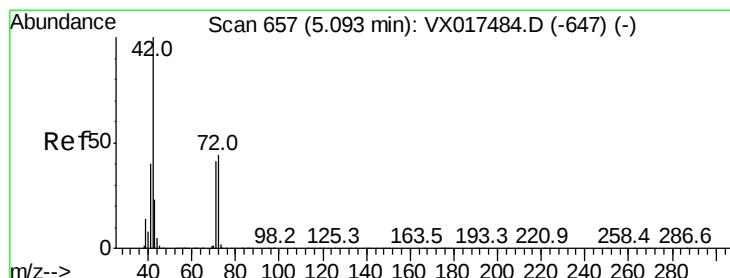
Tgt Ion: 42 Resp: 588

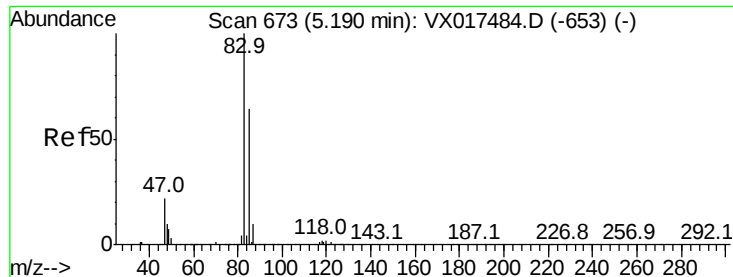
Ion Ratio Lower Upper

42 100

72 0.0 35.5 53.3#

71 61.2 33.0 49.4#

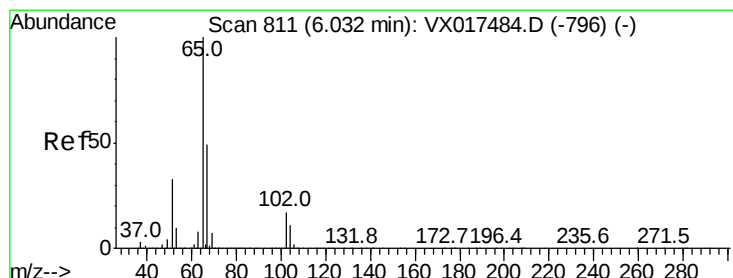
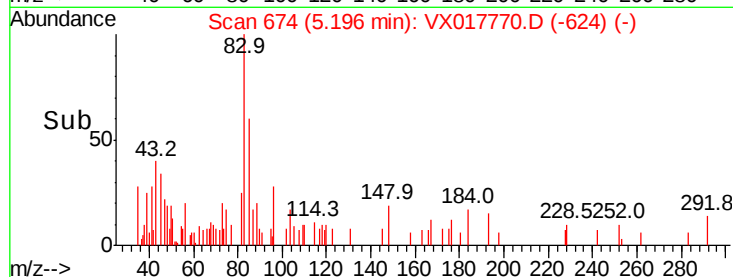
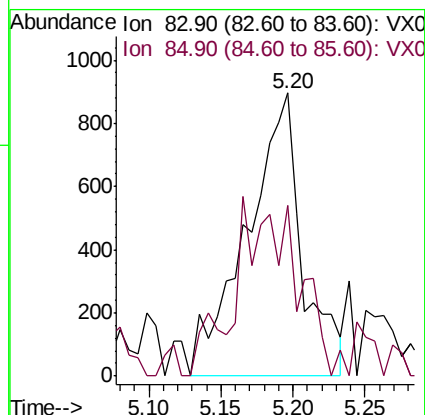
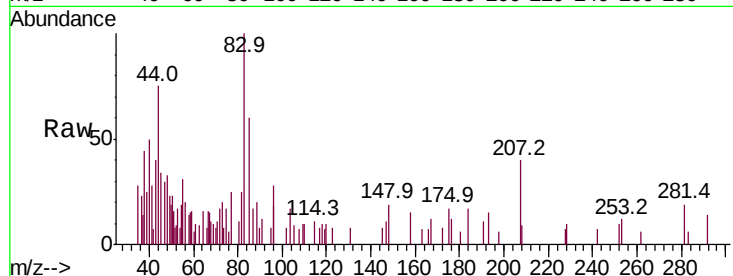




#30
Chloroform
Concen: 0.201 ug/l
RT: 5.20 min Scan# 674
Delta R.T. 0.01 min
Lab File: VX017770.D
Acq: 04 Aug 2020 15:02

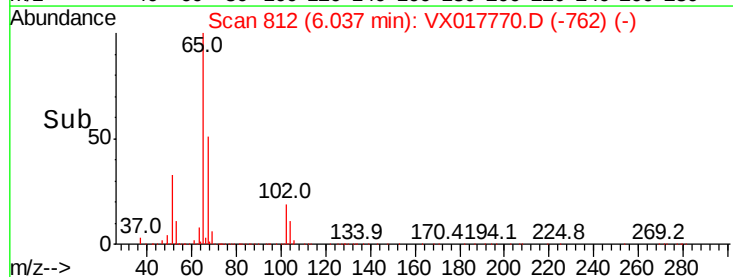
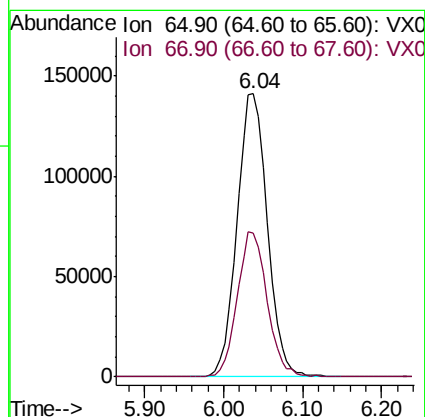
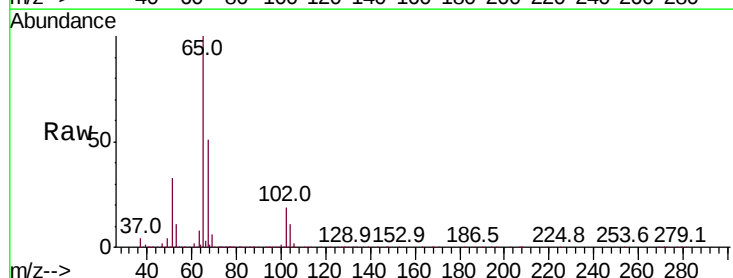
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB179-GW-378-380

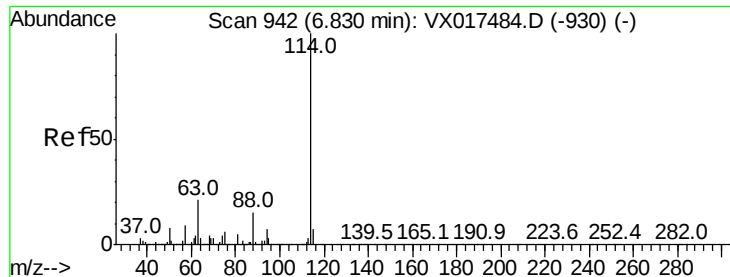
Tot Ion: 83 Resp: 2386
Ion Ratio Lower Upper
83 100
85 60.2 51.4 77.2



#33
1,2-Dichloroethane-d4
Concen: 50.392 ug/l
RT: 6.04 min Scan# 812
Delta R.T. 0.01 min
Lab File: VX017770.D
Acq: 04 Aug 2020 15:02

Tgt Ion: 65 Resp: 377818
Ion Ratio Lower Upper
65 100
67 50.5 0.0 102.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX017770.D

Acq: 04 Aug 2020 15:02

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB179-GW-378-380

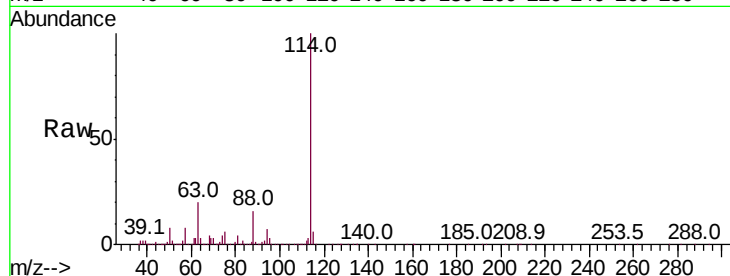
Tot Ion:114 Resp: 862976

Ion Ratio Lower Upper

114 100

63 20.2 0.0 40.6

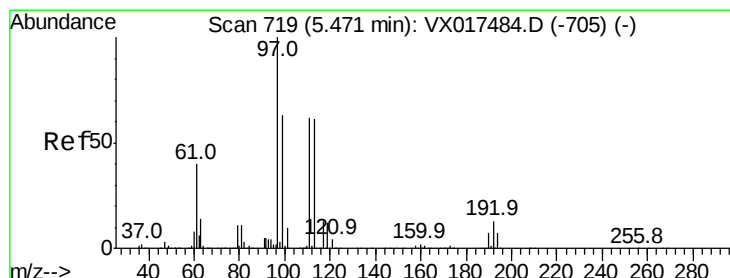
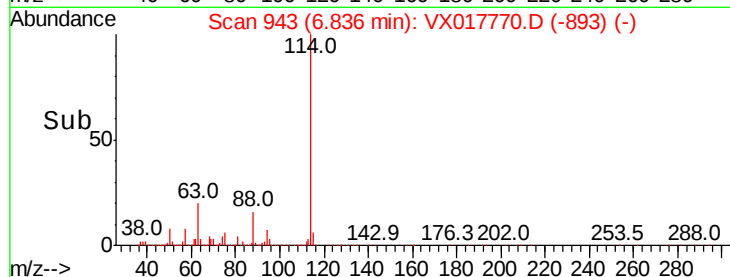
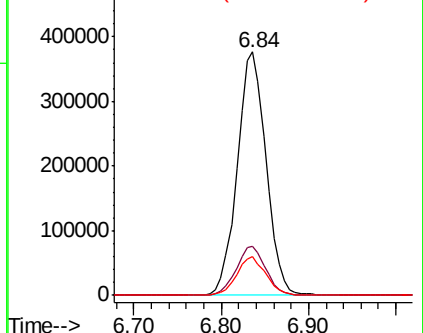
88 16.0 0.0 33.4



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: 49.398 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX017770.D

Acq: 04 Aug 2020 15:02

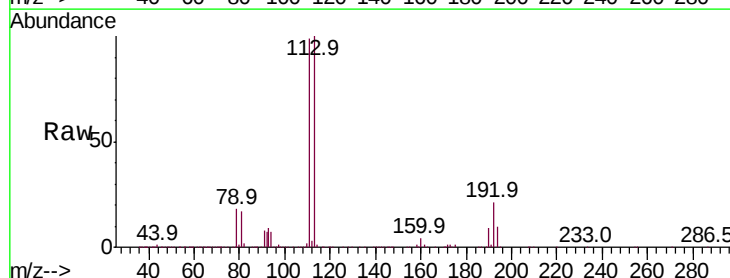
Tgt Ion:113 Resp: 285108

Ion Ratio Lower Upper

113 100

111 102.1 80.7 121.1

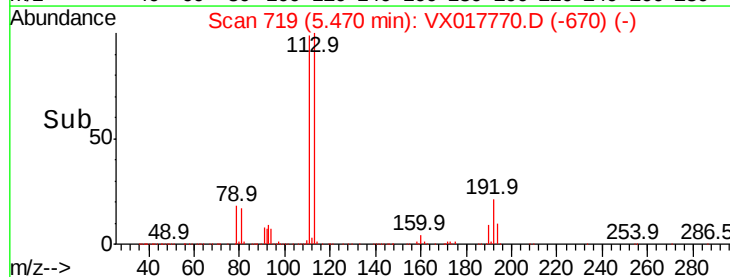
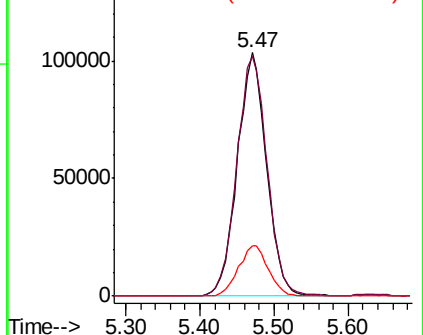
192 21.2 16.9 25.3

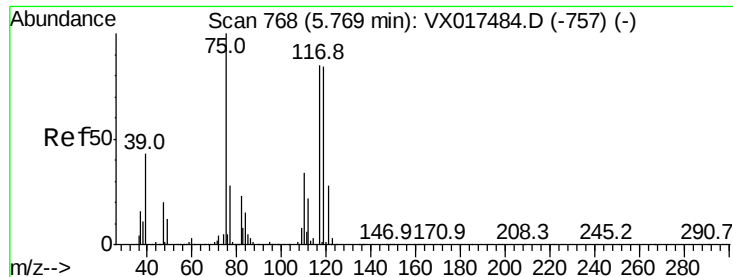


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.168 ug/l

RT: 5.63 min Scan# 746

Delta R.T. -0.13 min

Lab File: VX017770.D

Acq: 04 Aug 2020 15:02

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB179-GW-378-380

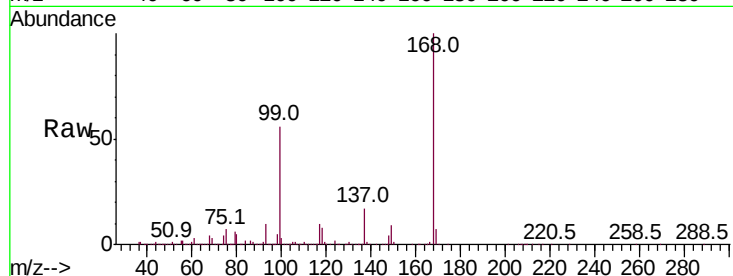
Tot Ion: 75 Resp: 42771

Ion Ratio Lower Upper

75 100

110 11.0 18.1 54.3#

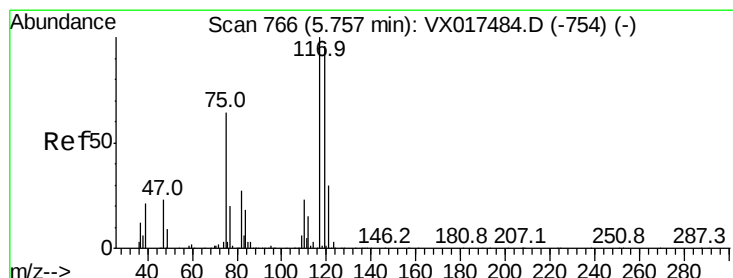
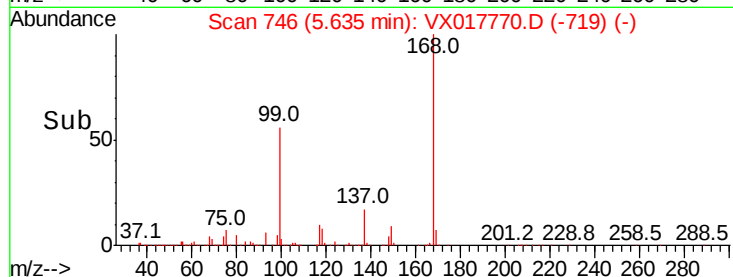
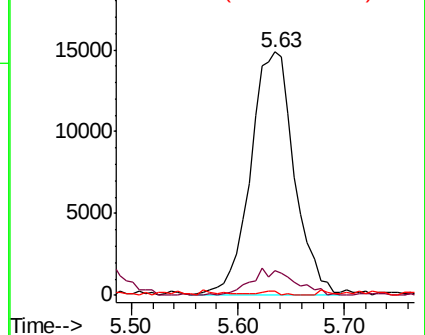
77 0.9 24.6 37.0#



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: 5.846 ug/l

RT: 5.63 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX017770.D

Acq: 04 Aug 2020 15:02

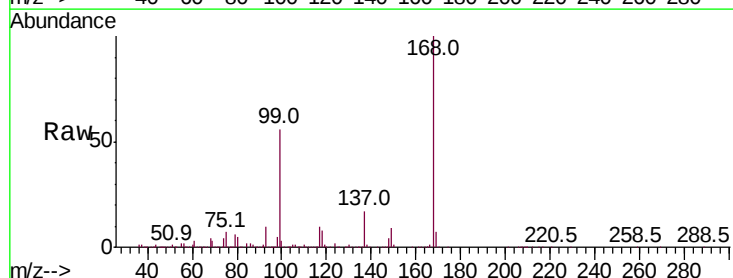
Tgt Ion: 117 Resp: 58762

Ion Ratio Lower Upper

117 100

119 7.7 75.4 113.0#

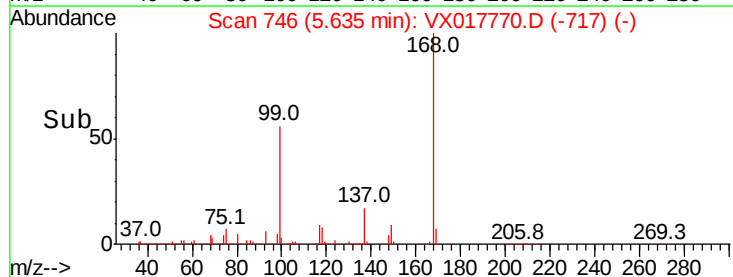
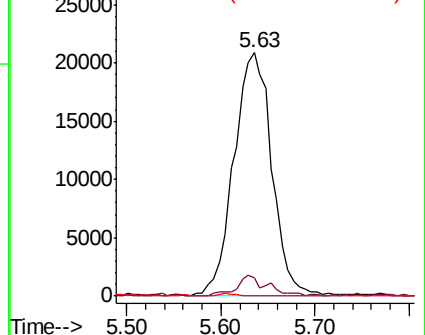
121 0.0 24.3 36.5#

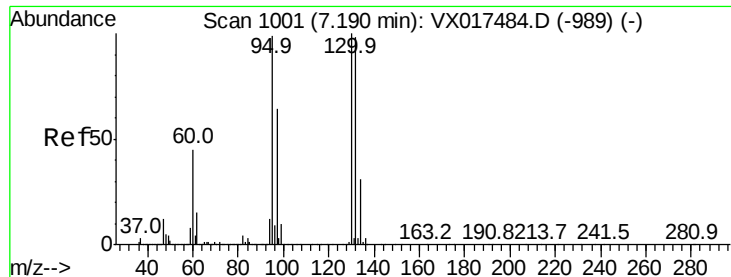


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 67.097 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VX017770.D

Acq: 04 Aug 2020 15:02

Instrument :

MSVOA_X

ClientSampleId :

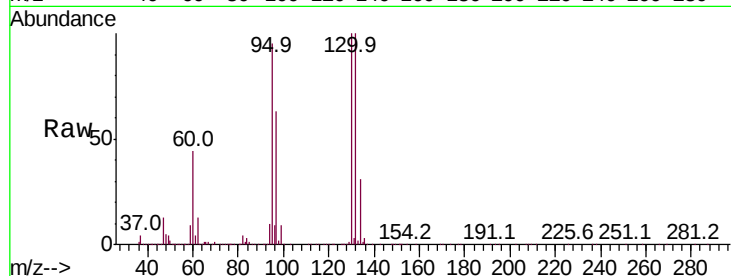
BP-VPB179-GW-378-380

Tot Ion:130 Resp: 465294

Ion Ratio Lower Upper

130 100

95 94.8 0.0 189.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.19

250000

200000

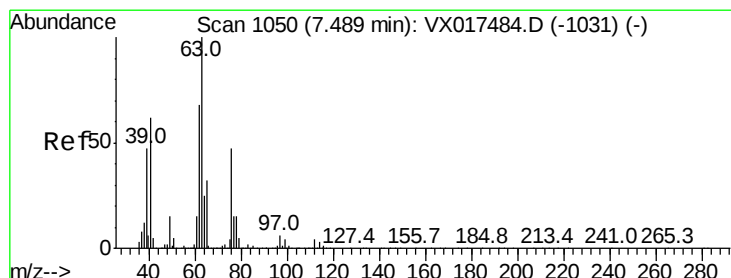
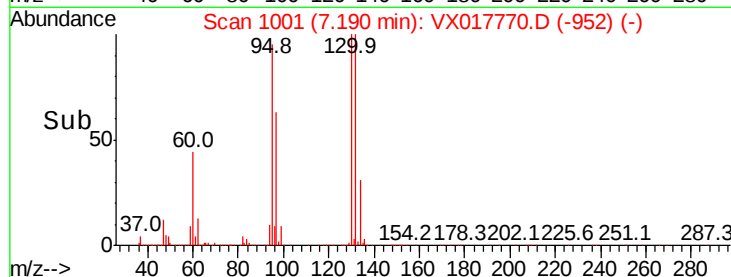
150000

100000

50000

0

Time-->



#45

1,2-Dichloropropane

Concen: 0.488 ug/l

RT: 7.50 min Scan# 1052

Delta R.T. 0.01 min

Lab File: VX017770.D

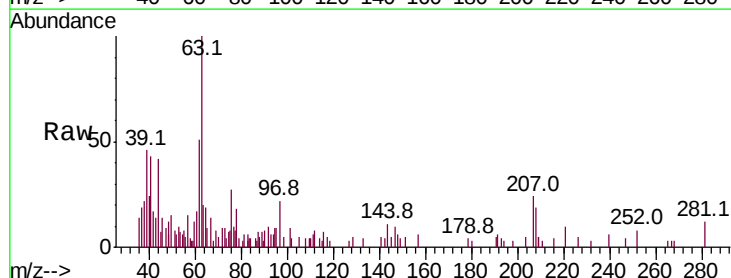
Acq: 04 Aug 2020 15:02

Tgt Ion: 63 Resp: 3208

Ion Ratio Lower Upper

63 100

65 24.0 24.5 36.7#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 64.90 (64.60 to 65.60): VX0

7.50

2000

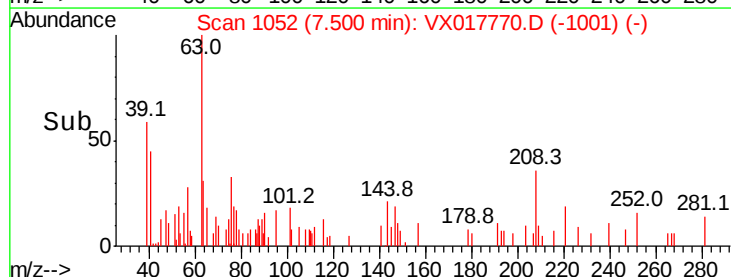
1500

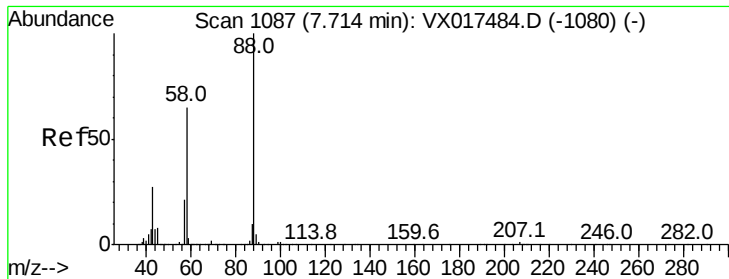
1000

500

0

Time-->





#49

1,4-Dioxane

Concen: 3.239 ug/l

RT: 7.72 min Scan# 1088

Delta R.T. 0.01 min

Lab File: VX017770.D

Acq: 04 Aug 2020 15:02

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB179-GW-378-380

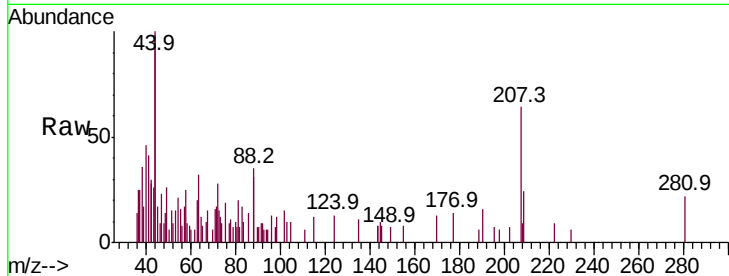
Tot Ion: 88 Resp: 460

Ion Ratio Lower Upper

88 100

43 28.3 27.8 41.6

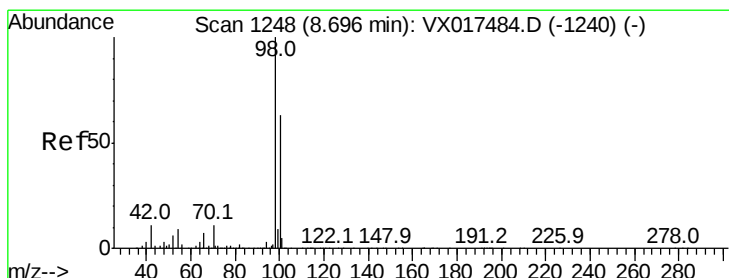
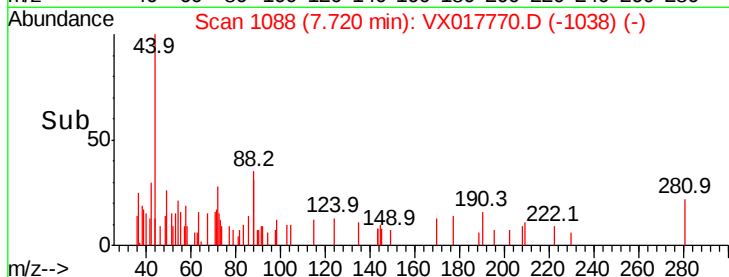
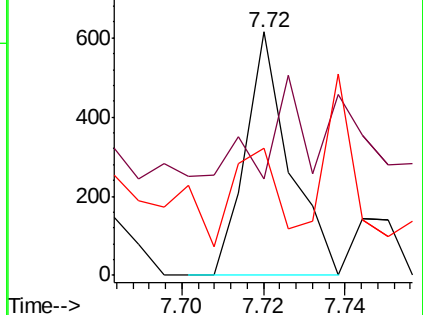
58 57.6 58.3 87.5#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 49.039 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017770.D

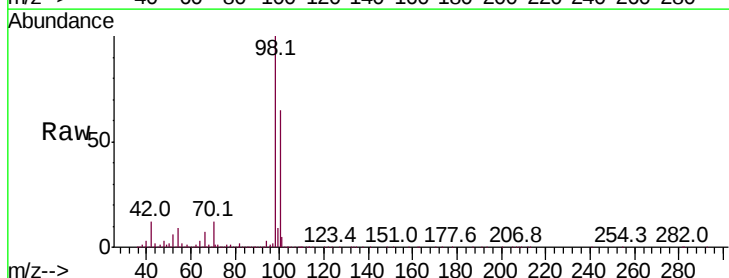
Acq: 04 Aug 2020 15:02

Tgt Ion: 98 Resp: 1021035

Ion Ratio Lower Upper

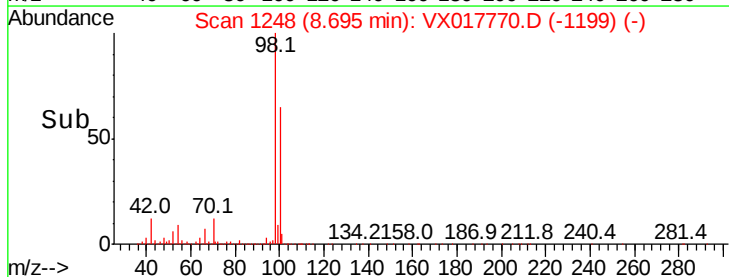
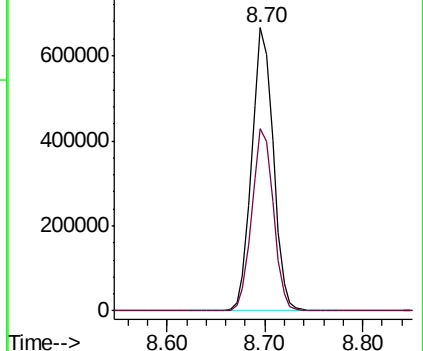
98 100

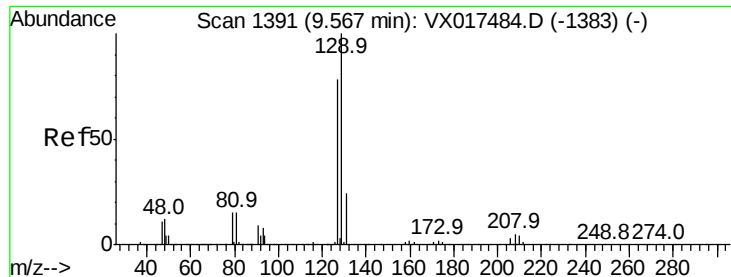
100 64.6 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#60

Dibromochloromethane

Concen: 6.918 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.25 min

Lab File: VX017770.D

Acq: 04 Aug 2020 15:02

Instrument :

MSVOA_X

ClientSampleId :

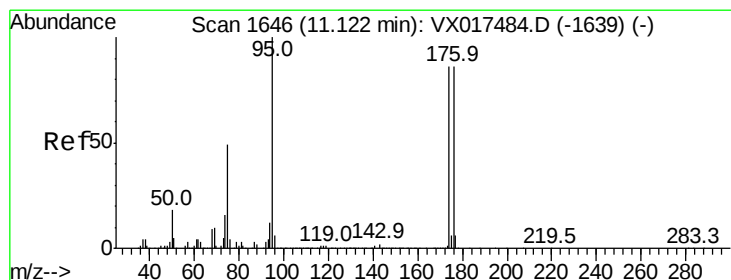
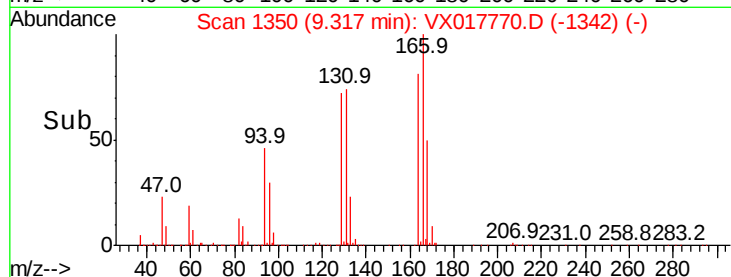
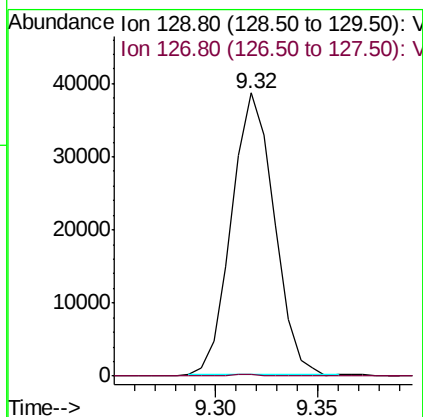
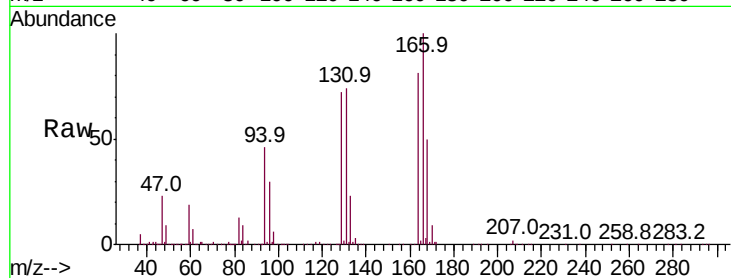
BP-VPB179-GW-378-380

Tot Ion:129 Resp: 55742

Ion Ratio Lower Upper

129 100

127 0.3 38.4 115.1#



#62

4-Bromofluorobenzene

Concen: 47.673 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017770.D

Acq: 04 Aug 2020 15:02

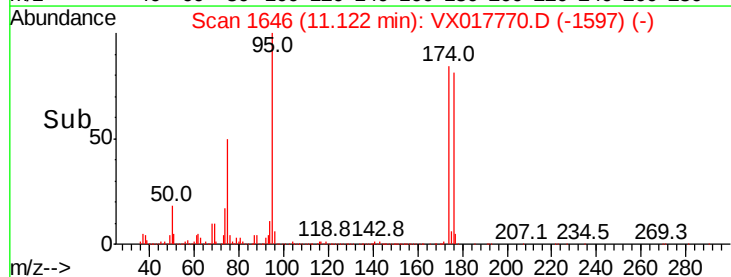
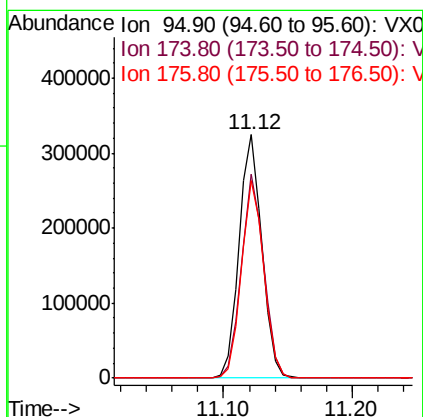
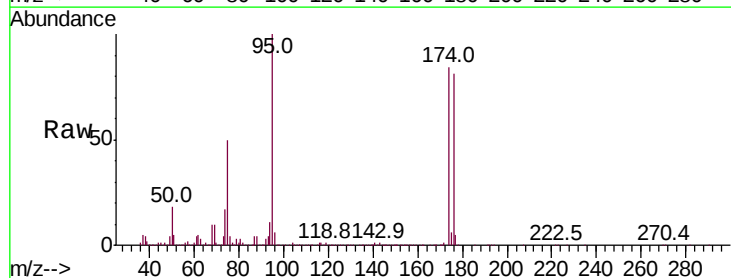
Tgt Ion: 95 Resp: 397237

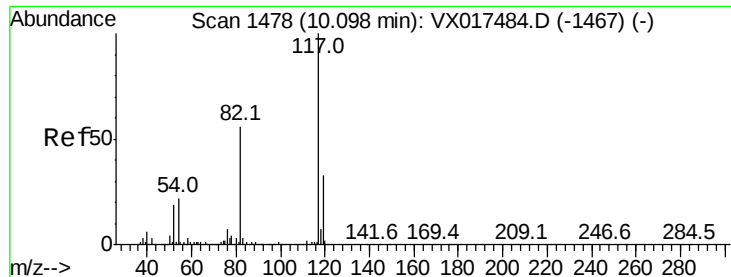
Ion Ratio Lower Upper

95 100

174 82.5 0.0 169.0

176 79.4 0.0 161.0

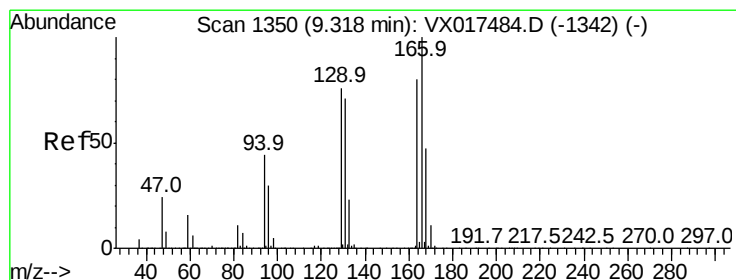
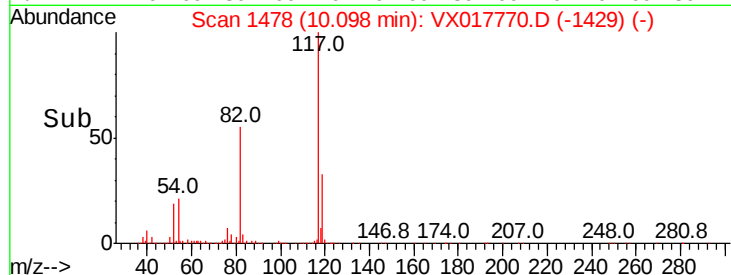
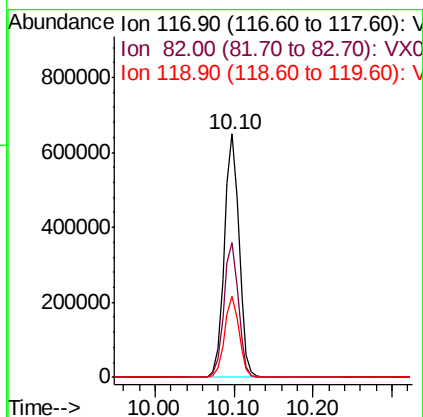
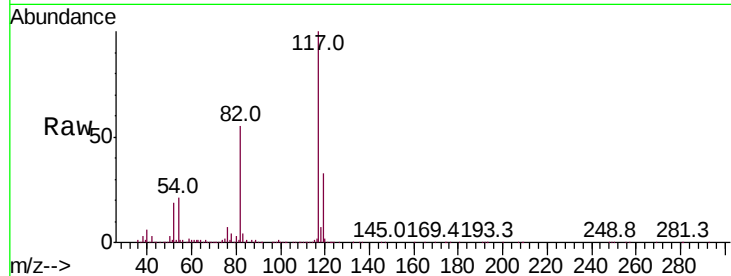




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017770.D
Acq: 04 Aug 2020 15:02

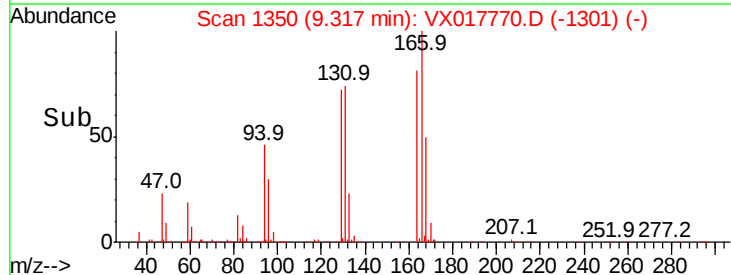
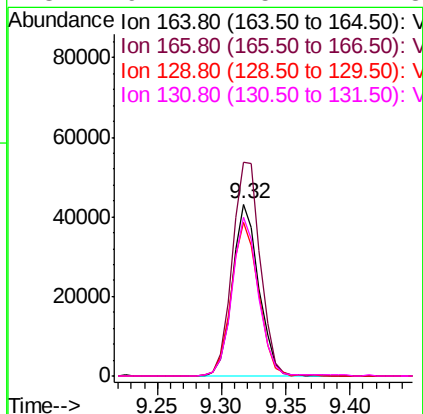
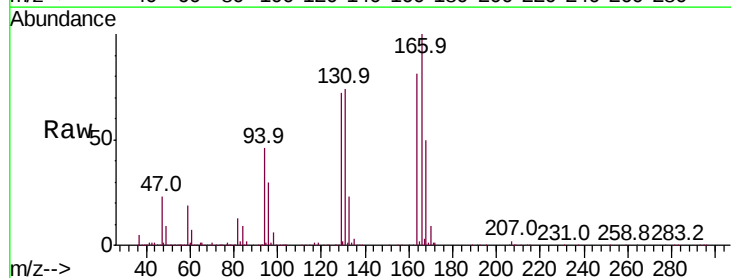
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB179-GW-378-380

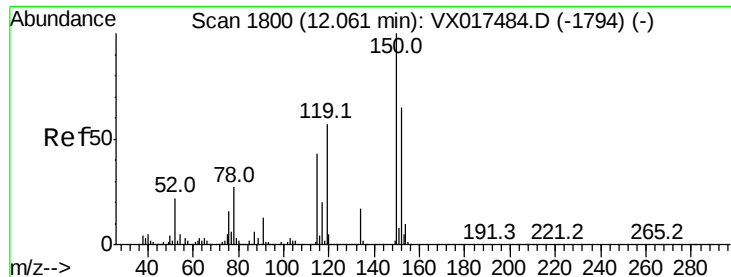
Tot Ion:117 Resp: 840554
Ion Ratio Lower Upper
117 100
82 55.2 44.0 66.0
119 33.0 25.4 38.0



#64
Tetrachloroethene
Concen: 8.129 ug/l
RT: 9.32 min Scan# 1350
Delta R.T. -0.00 min
Lab File: VX017770.D
Acq: 04 Aug 2020 15:02

Tgt Ion:164 Resp: 61330
Ion Ratio Lower Upper
164 100
166 124.1 100.6 150.8
129 89.5 75.0 112.6
131 92.4 75.2 112.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX017770.D

Acq: 04 Aug 2020 15:02

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB179-GW-378-380

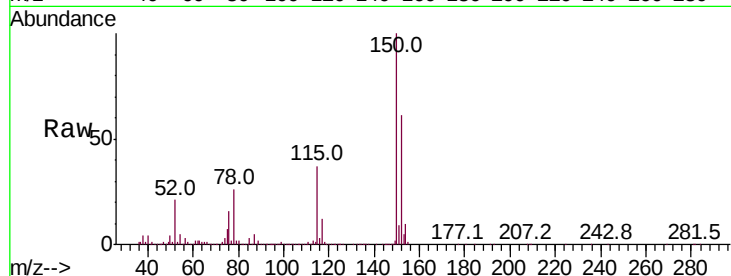
Tot Ion:152 Resp: 408173

Ion Ratio Lower Upper

152 100

115 59.4 65.5 196.6#

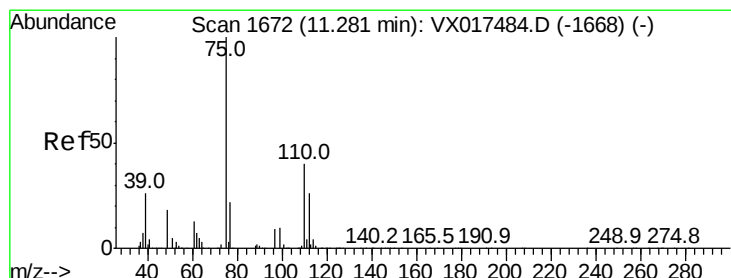
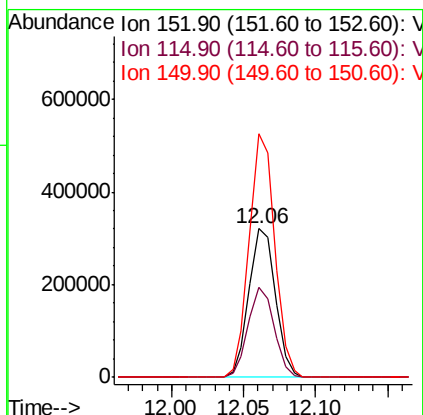
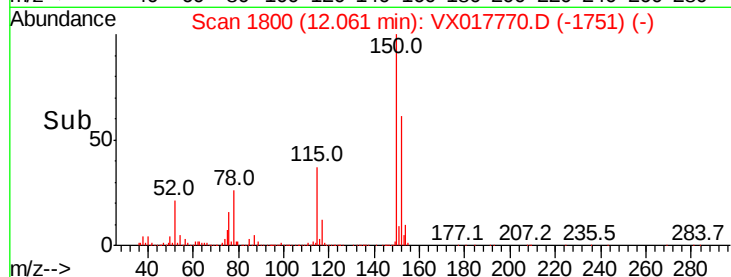
150 158.1 0.0 412.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 23.831 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017770.D

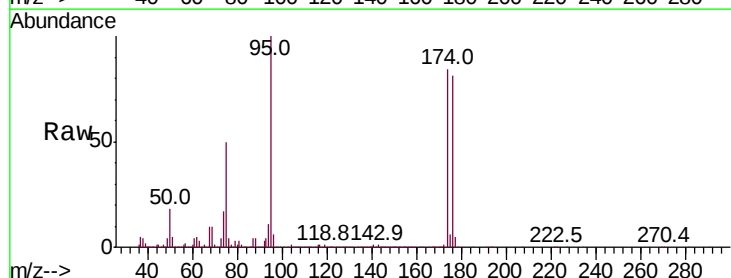
Acq: 04 Aug 2020 15:02

Tgt Ion: 75 Resp: 200094

Ion Ratio Lower Upper

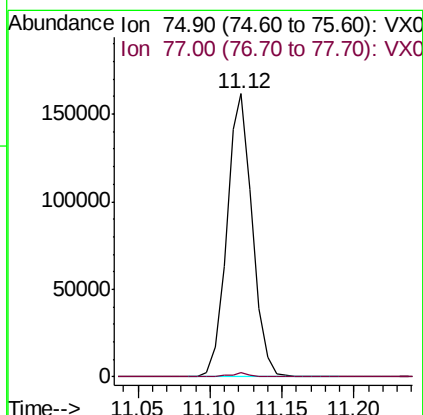
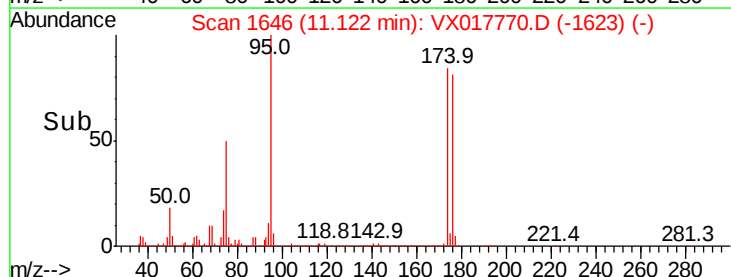
75 100

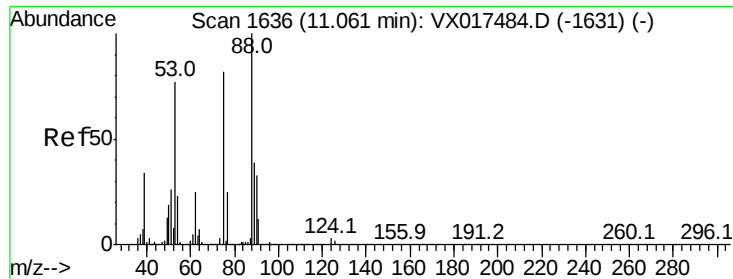
77 1.5 21.8 65.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 60.049 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017770.D

Acq: 04 Aug 2020 15:02

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB179-GW-378-380

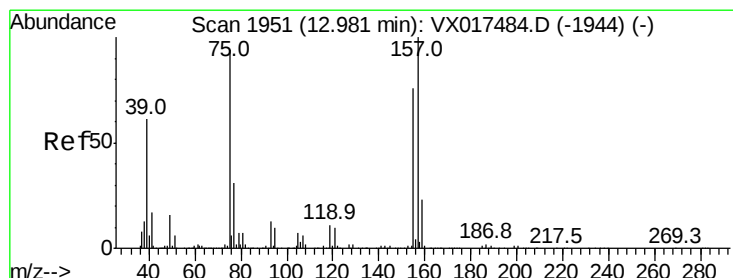
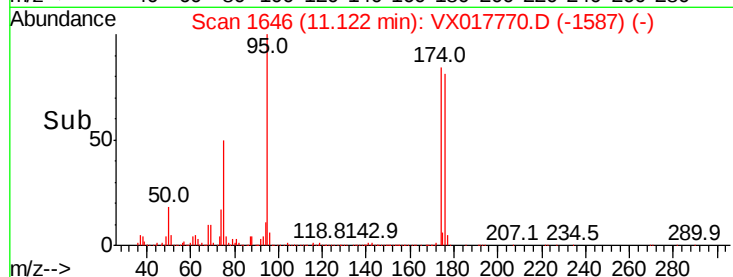
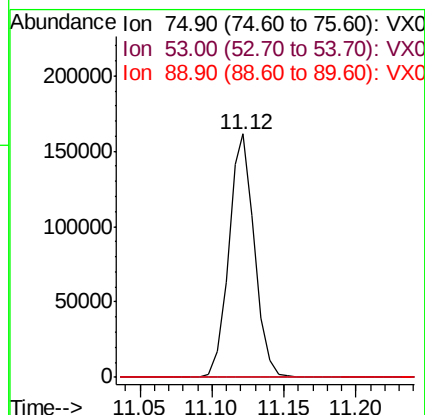
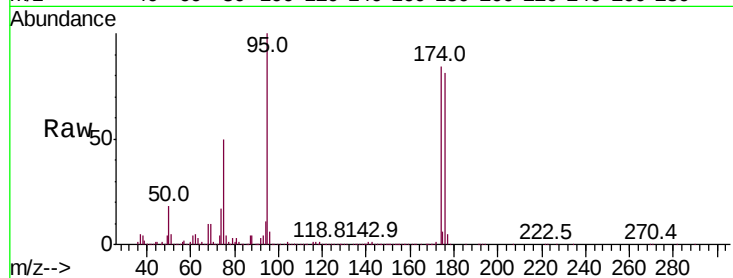
Tot Ion: 75 Resp: 200094

Ion Ratio Lower Upper

75 100

53 0.5 75.9 113.9#

89 0.0 37.8 56.6#



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.617 ug/l

RT: 13.22 min Scan# 1990

Delta R.T. 0.24 min

Lab File: VX017770.D

Acq: 04 Aug 2020 15:02

Tgt Ion: 75 Resp: 106

Ion Ratio Lower Upper

75 100

155 84.0 42.3 126.8

157 92.5 54.3 162.9

