

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111920\
 Data File : VX019464.D
 Acq On : 18 Nov 2020 20:32
 Operator : JC/MD
 Sample : L4787-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB178-GW-678-680

Quant Time: Nov 19 03:16:43 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X111920W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 18 16:47:30 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.62	168	241430	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.82	114	408530	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	373407	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	156882	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	177889	47.02	ug/l	0.00
Spiked Amount			Recovery	=	94.04%	
35) Dibromofluoromethane	5.46	113	126052	46.89	ug/l	0.00
Spiked Amount			Recovery	=	93.78%	
50) Toluene-d8	8.70	98	499188	47.79	ug/l	0.00
Spiked Amount			Recovery	=	95.58%	
62) 4-Bromofluorobenzene	11.12	95	175726	45.79	ug/l	0.00
Spiked Amount			Recovery	=	91.58%	

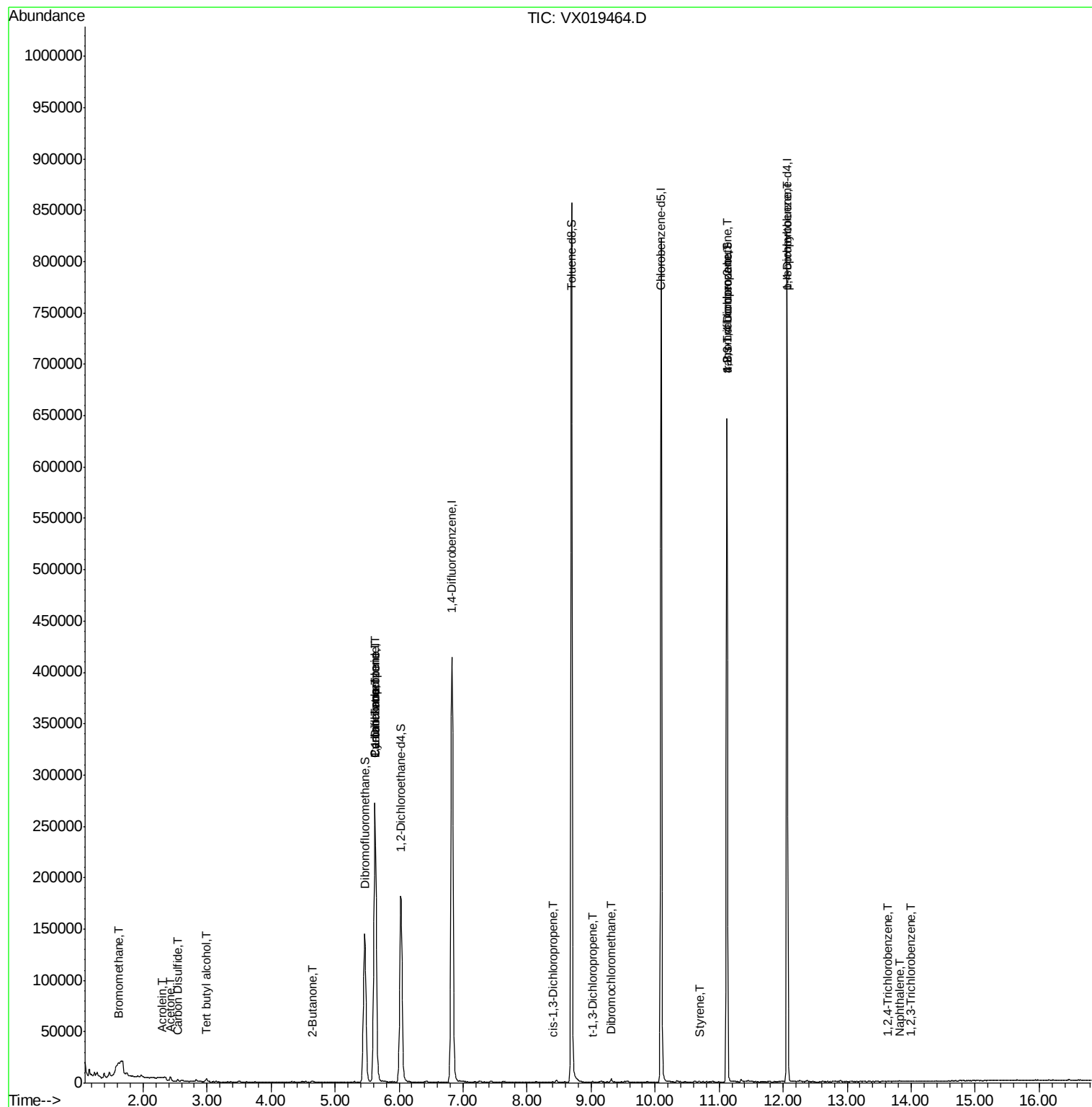
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.62	94	660	0.412	ug/l	95
6) Chloroethane	1.61	64	266	Below Cal		96
11) Tert butyl alcohol	2.99	59	1595	2.269	ug/l #	72
13) Acrolein	2.29	56	328	0.651	ug/l #	59
16) Acetone	2.42	43	4224	2.887	ug/l	93
17) Carbon Disulfide	2.54	76	1800	0.255	ug/l #	84
25) 2-Butanone	4.65	43	960	0.440	ug/l #	48
31) Cyclohexane	5.62	56	5778	1.216	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	21604	5.276	ug/l #	51
38) Carbon Tetrachloride	5.63	117	26762	6.625	ug/l #	17
53) t-1,3-Dichloropropene	9.02	75	152	1.856	ug/l #	43
54) cis-1,3-Dichloropropene	8.40	75	20	1.489	ug/l #	35
60) Dibromochloromethane	9.32	129	138	1.662	ug/l #	11
70) Styrene	10.70	104	169	2.148	ug/l #	84
76) 1,2,3-Trichloropropane	11.12	75	92515	24.735	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	92515	65.519	ug/l #	9
86) p-Isopropyltoluene	12.05	119	411	1.642	ug/l #	1
93) 1,2,4-Trichlorobenzene	13.63	180	230	2.821	ug/l	93
95) Naphthalene	13.82	128	734	2.374	ug/l #	78
96) 1,2,3-Trichlorobenzene	14.01	180	189	2.494	ug/l #	69

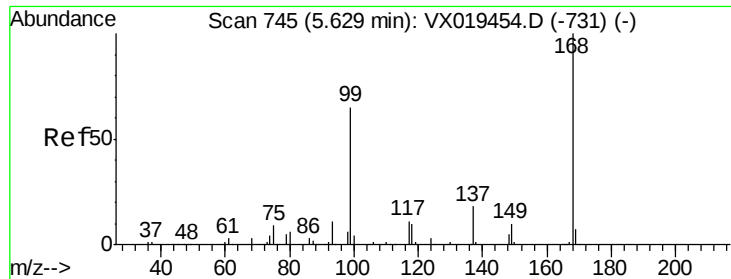
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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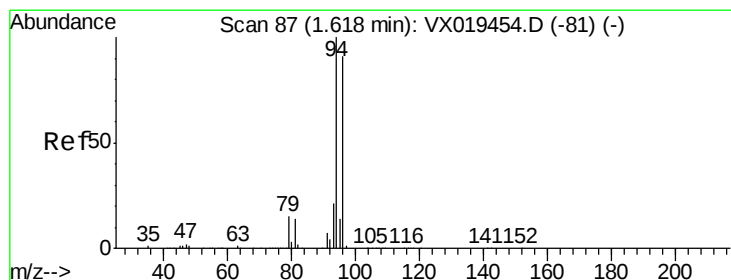
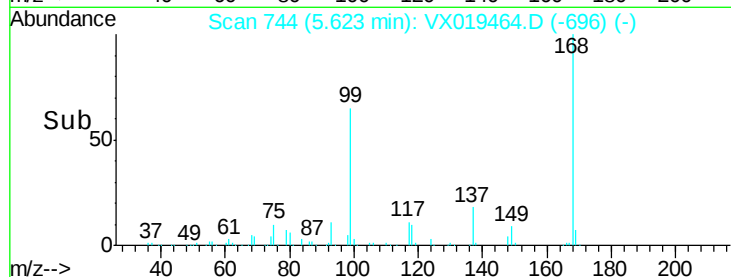
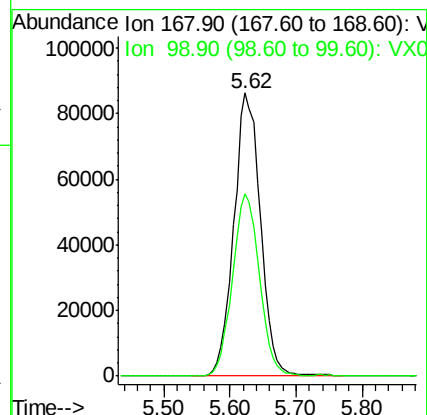
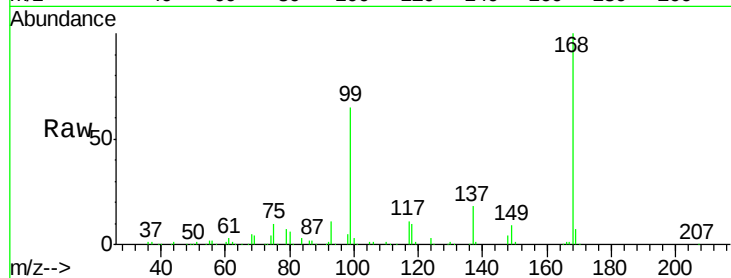




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.62 min Scan# 744
Delta R.T. -0.01 min
Lab File: VX019464.D
Acq: 18 Nov 2020 20:32

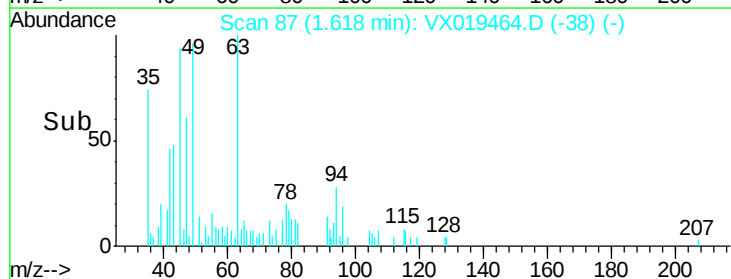
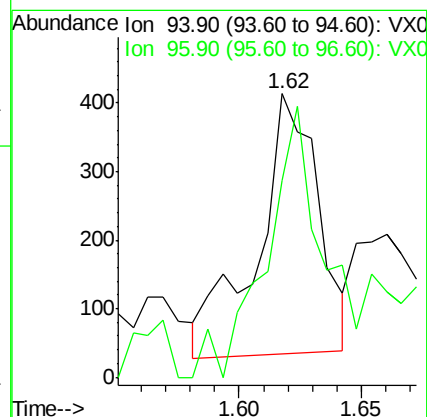
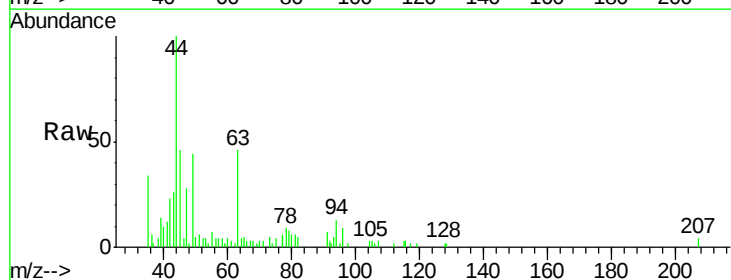
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB178-GW-678-680

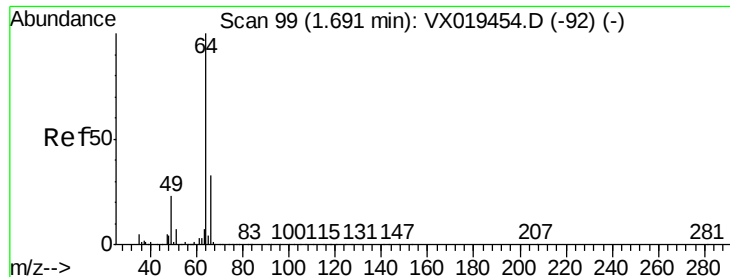
Tot Ion:168 Resp: 241430
Ion Ratio Lower Upper
168 100
99 64.5 52.1 78.1



#5
Bromomethane
Concen: 0.412 ug/l
RT: 1.62 min Scan# 87
Delta R.T. 0.00 min
Lab File: VX019464.D
Acq: 18 Nov 2020 20:32

Tgt Ion: 94 Resp: 660
Ion Ratio Lower Upper
94 100
96 85.6 72.4 108.6





#6

Chloroethane

Concen: Below Cal

RT: 1.61 min Scan# 86

Delta R.T. -0.08 min

Lab File: VX019464.D

Acq: 18 Nov 2020 20:32

Instrument :

MSVOA_X

ClientSampleId :

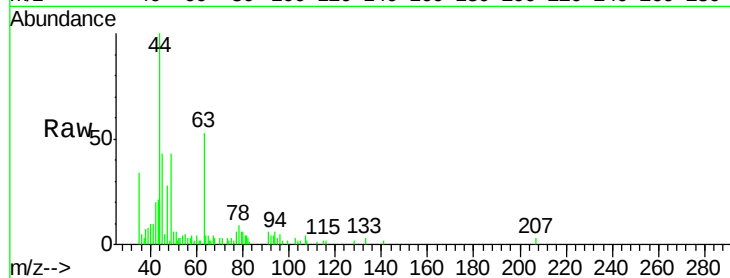
BP-VPB178-GW-678-680

Tot Ion: 64 Resp: 266

Ion Ratio Lower Upper

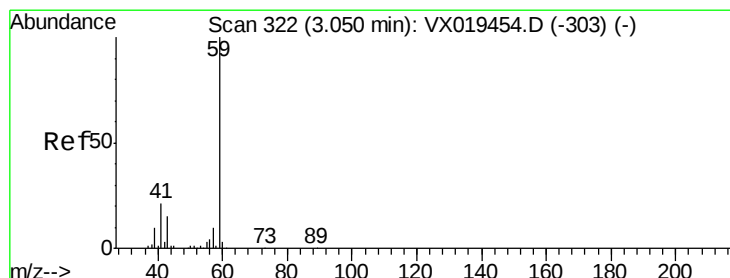
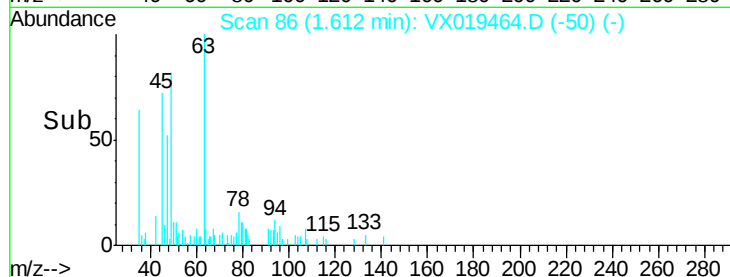
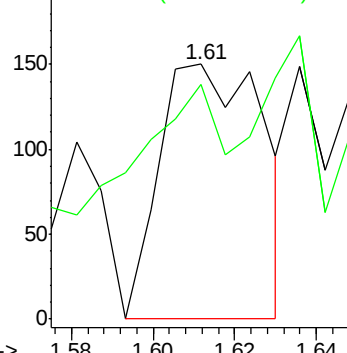
64 100

66 34.7 26.1 39.1



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#11

Tert butyl alcohol

Concen: 2.269 ug/l

RT: 2.99 min Scan# 312

Delta R.T. -0.06 min

Lab File: VX019464.D

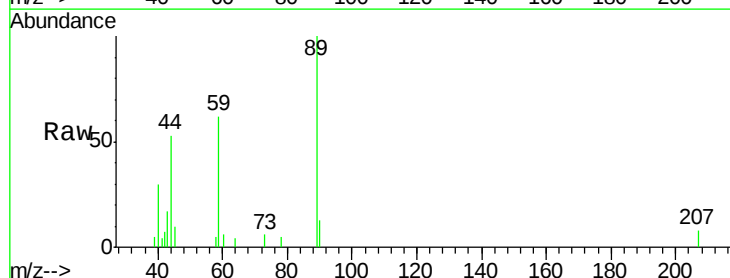
Acq: 18 Nov 2020 20:32

Tgt Ion: 59 Resp: 1595

Ion Ratio Lower Upper

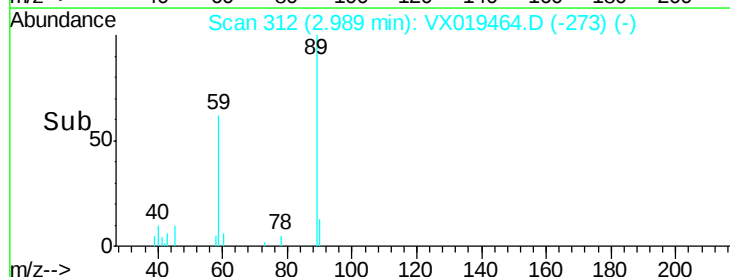
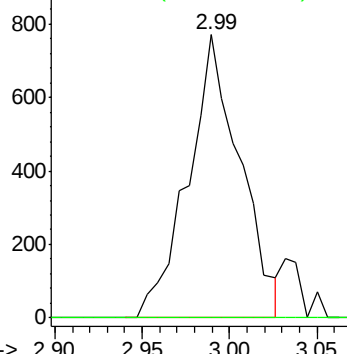
59 100

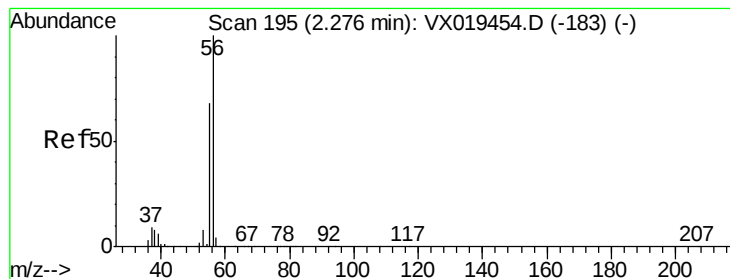
57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.651 ug/l

RT: 2.29 min Scan# 198

Delta R.T. 0.02 min

Lab File: VX019464.D

Acq: 18 Nov 2020 20:32

Instrument :

MSVOA_X

ClientSampleId :

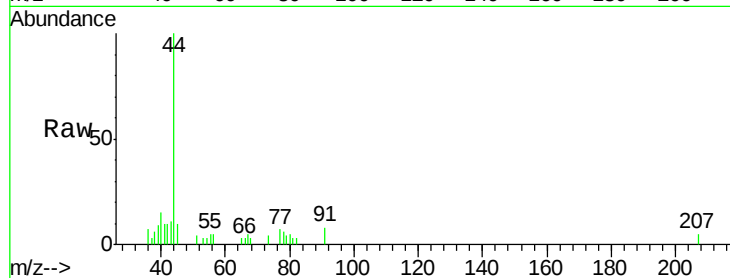
BP-VPB178-GW-678-680

Tot Ion: 56 Resp: 328

Ion Ratio Lower Upper

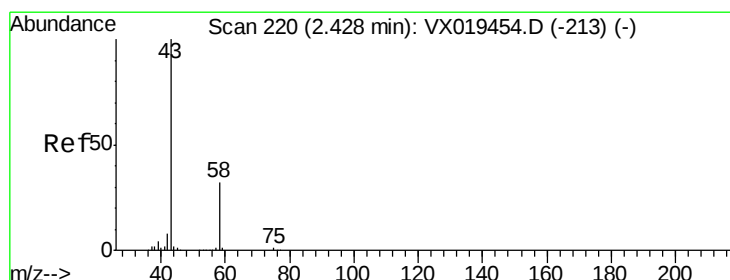
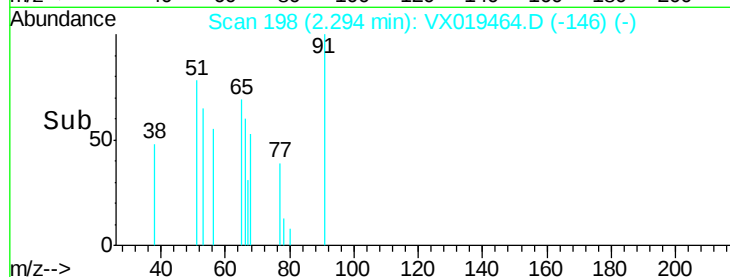
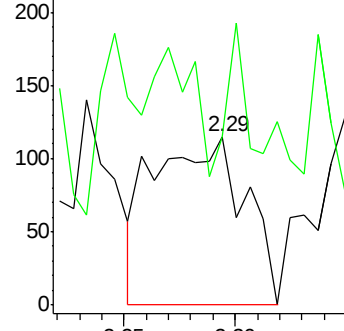
56 100

55 36.3 55.9 83.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 2.887 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.01 min

Lab File: VX019464.D

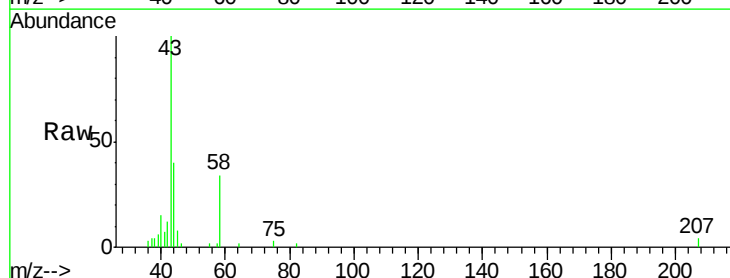
Acq: 18 Nov 2020 20:32

Tgt Ion: 43 Resp: 4224

Ion Ratio Lower Upper

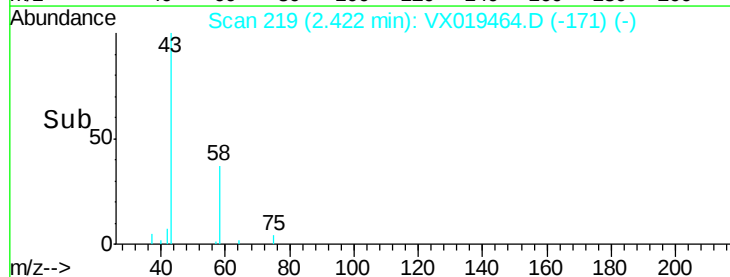
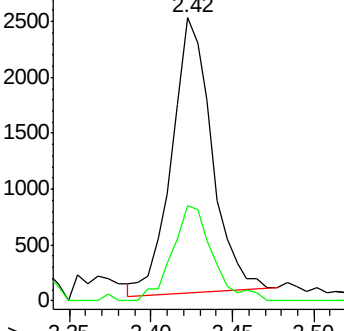
43 100

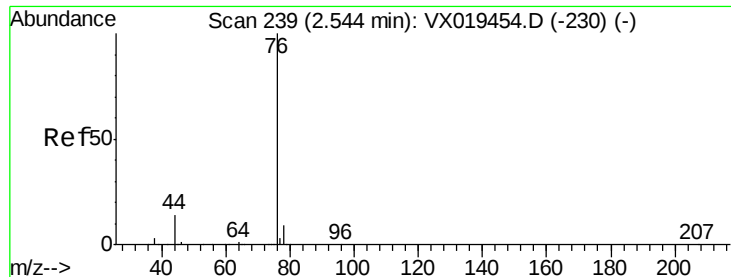
58 35.4 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.255 ug/l

RT: 2.54 min Scan# 239

Delta R.T. 0.00 min

Lab File: VX019464.D

Acq: 18 Nov 2020 20:32

Instrument :

MSVOA_X

ClientSampleId :

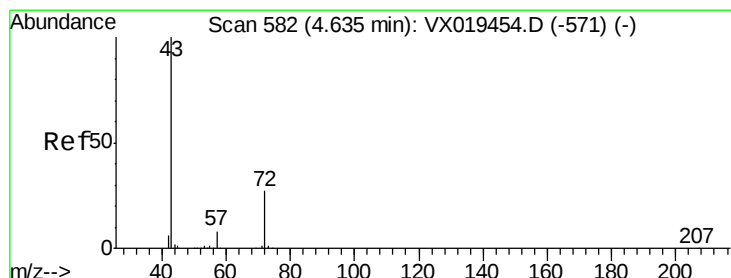
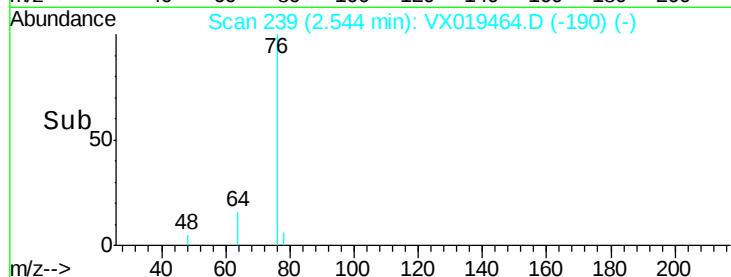
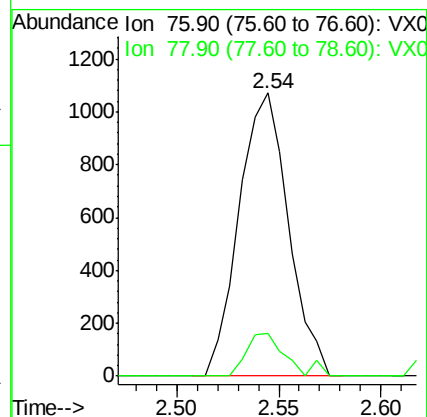
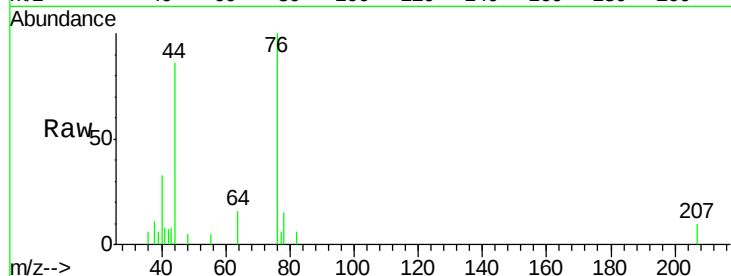
BP-VPB178-GW-678-680

Tot Ion: 76 Resp: 1800

Ion Ratio Lower Upper

76 100

78 15.1 7.4 11.2#



#25

2-Butanone

Concen: 0.440 ug/l

RT: 4.65 min Scan# 585

Delta R.T. 0.02 min

Lab File: VX019464.D

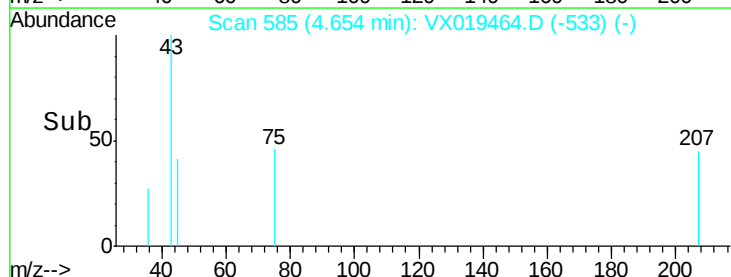
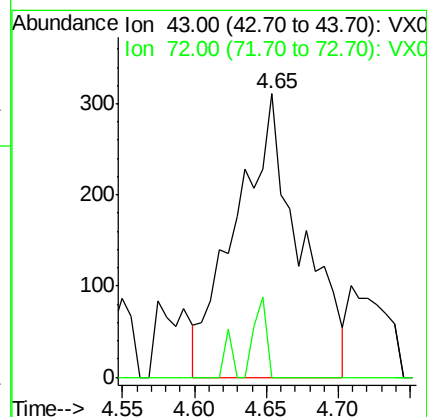
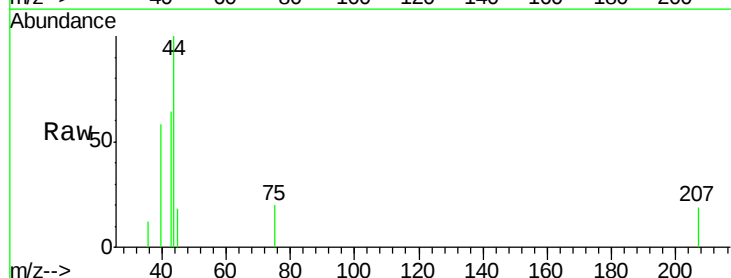
Acq: 18 Nov 2020 20:32

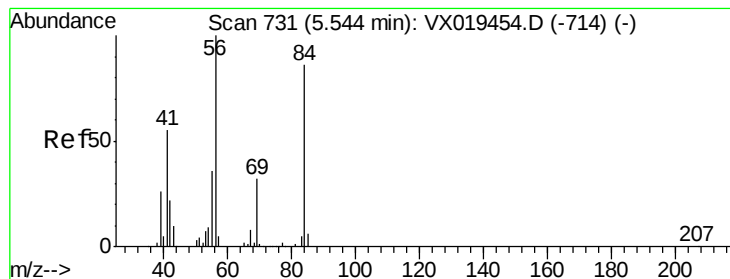
Tgt Ion: 43 Resp: 960

Ion Ratio Lower Upper

43 100

72 0.0 21.4 32.0#





#31

Cvclohexane

Concen: 1.216 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.08 min

Lab File: VX019464.D

Acq: 18 Nov 2020 20:32

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB178-GW-678-680

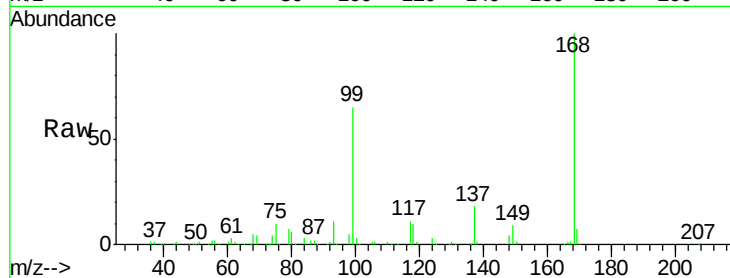
Tot Ion: 56 Resp: 5778

Ion Ratio Lower Upper

56 100

69 177.6 25.2 37.8#

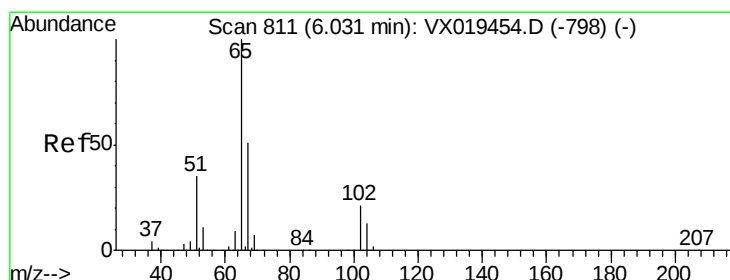
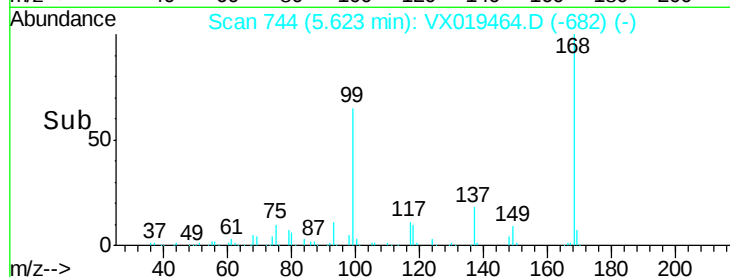
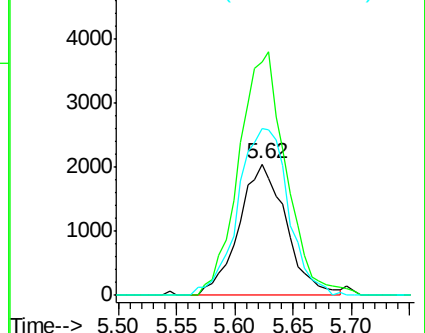
84 126.7 68.5 102.7#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 47.024 ug/l

RT: 6.03 min Scan# 810

Delta R.T. -0.01 min

Lab File: VX019464.D

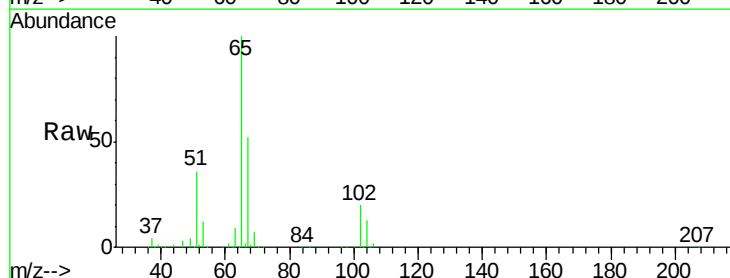
Acq: 18 Nov 2020 20:32

Tgt Ion: 65 Resp: 177889

Ion Ratio Lower Upper

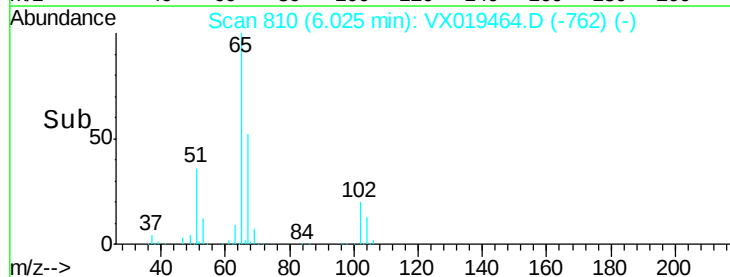
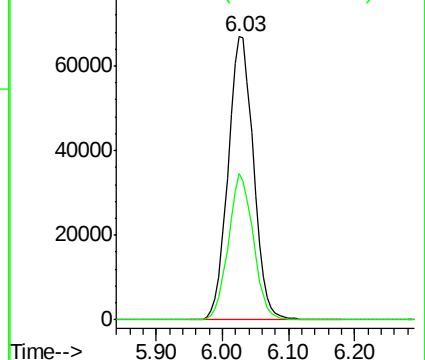
65 100

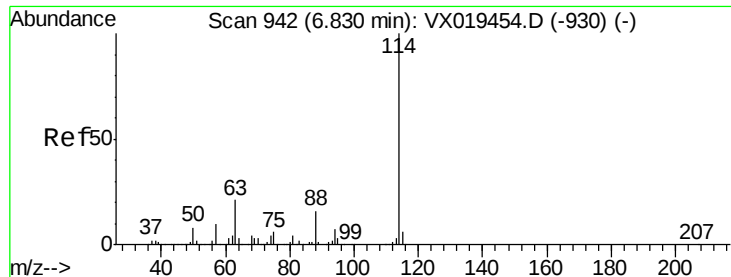
67 50.4 0.0 102.4



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: 6.82 min Scan# 941

Delta R.T. -0.01 min

Lab File: VX019464.D

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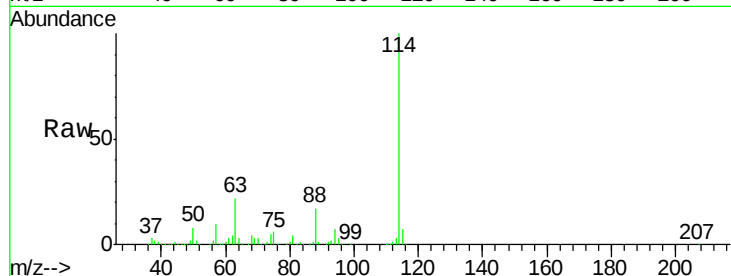
Tot Ion:114 Resp: 408530

Ion Ratio Lower Upper

114 100

63 22.5 0.0 42.0

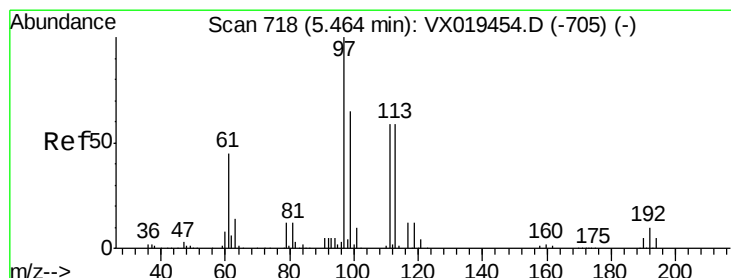
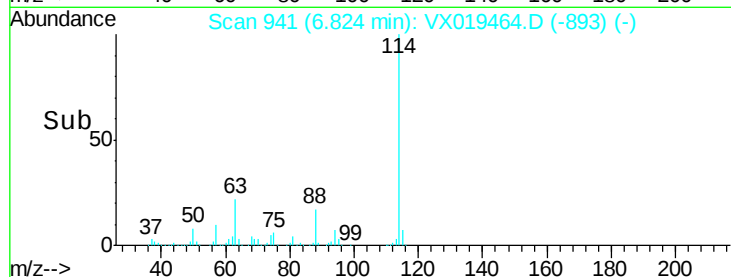
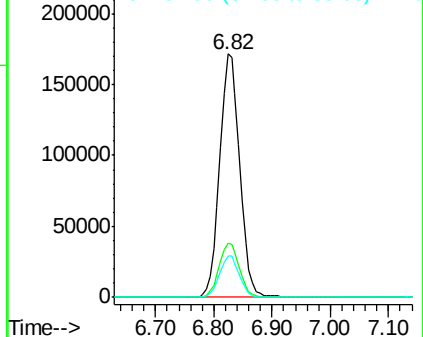
88 16.9 0.0 32.0



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: 46.892 ug/l

RT: 5.46 min Scan# 717

Delta R.T. -0.01 min

Lab File: VX019464.D

Acq: 18 Nov 2020 20:32

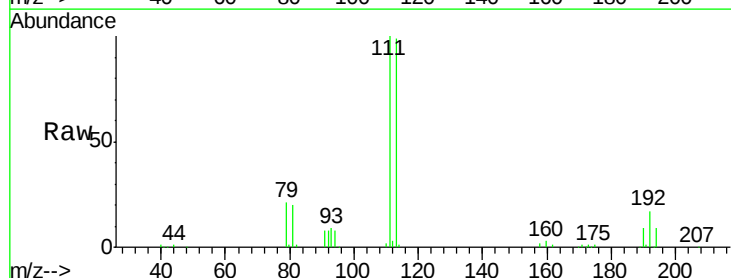
Tgt Ion:113 Resp: 126052

Ion Ratio Lower Upper

113 100

111 102.6 82.2 123.4

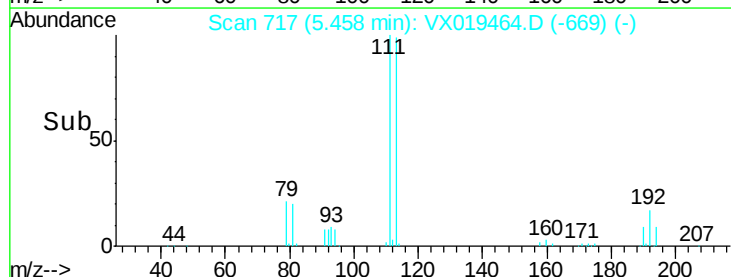
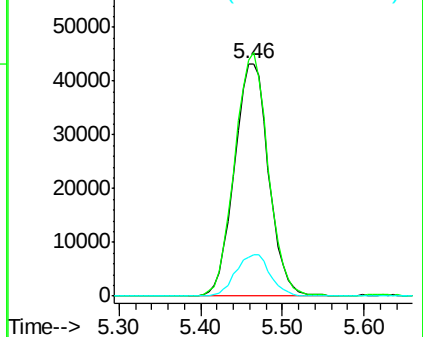
192 18.0 14.2 21.4

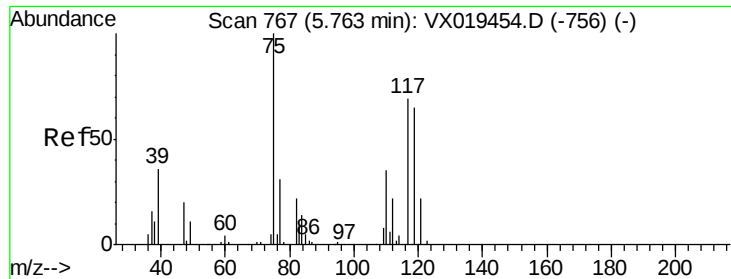


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.276 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.14 min

Lab File: VX019464.D

Acq: 18 Nov 2020 20:32

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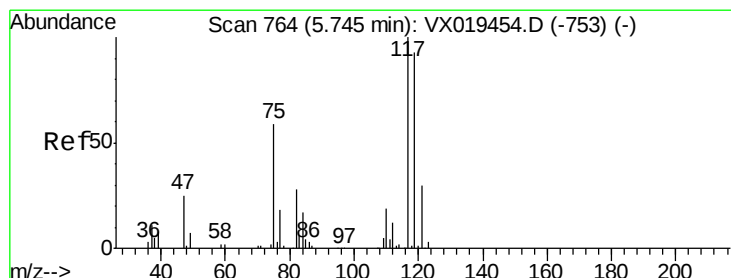
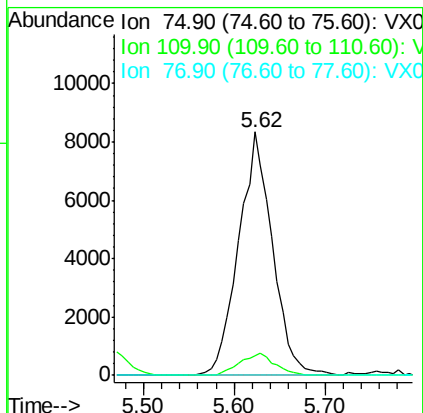
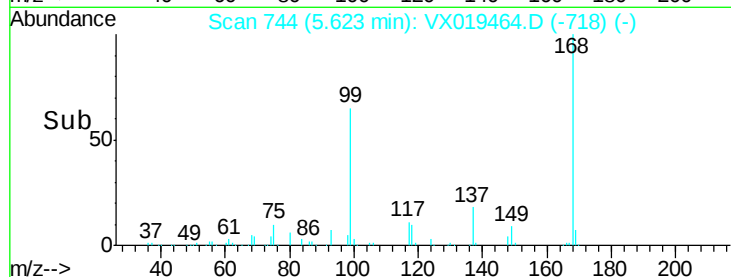
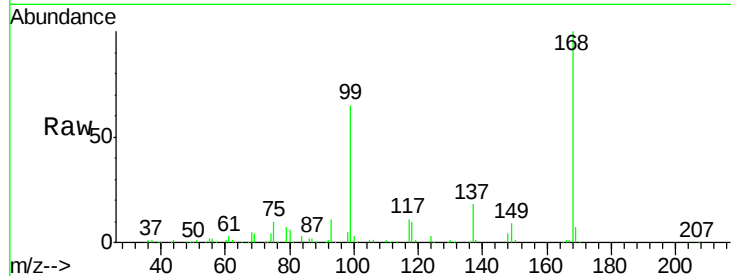
Tot Ion: 75 Resp: 21604

Ion Ratio Lower Upper

75 100

110 9.3 17.0 50.9#

77 0.0 24.7 37.1#



#38

Carbon Tetrachloride

Concen: 6.625 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019464.D

Acq: 18 Nov 2020 20:32

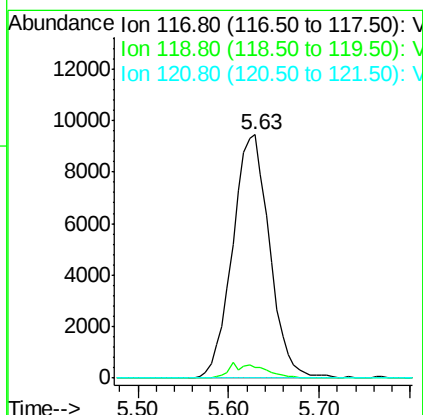
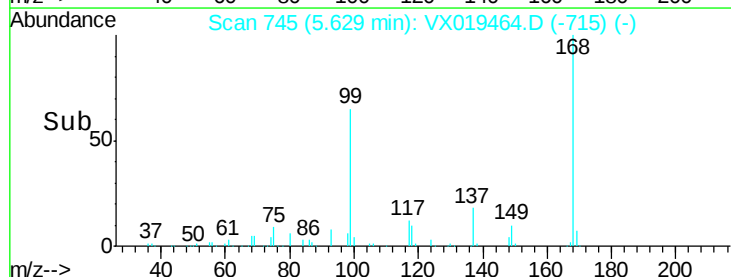
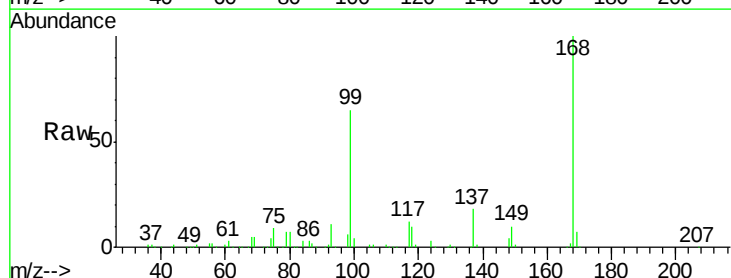
Tgt Ion: 117 Resp: 26762

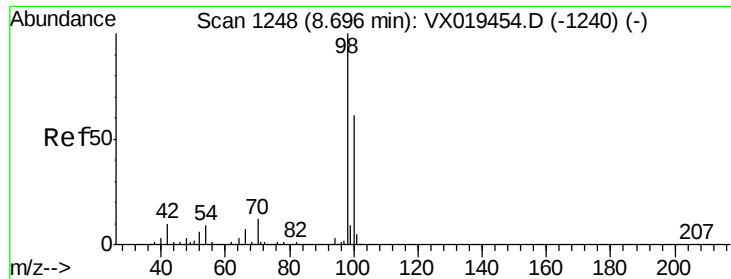
Ion Ratio Lower Upper

117 100

119 4.5 74.1 111.1#

121 0.0 23.6 35.4#





#50

Toluene-d8

Concen: 47.787 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX019464.D

Acq: 18 Nov 2020 20:32

Instrument :

MSVOA_X

ClientSampleId :

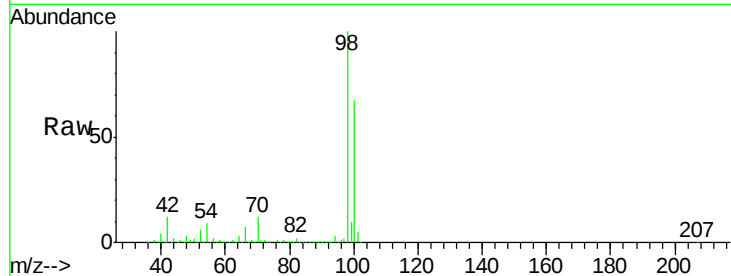
BP-VPB178-GW-678-680

Tot Ion: 98 Resp: 499188

Ion Ratio Lower Upper

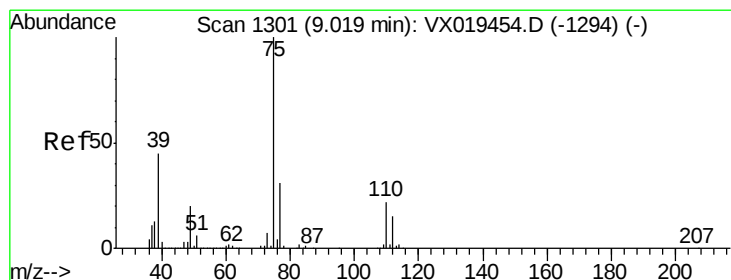
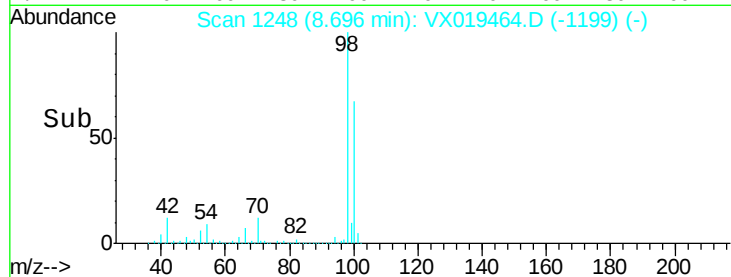
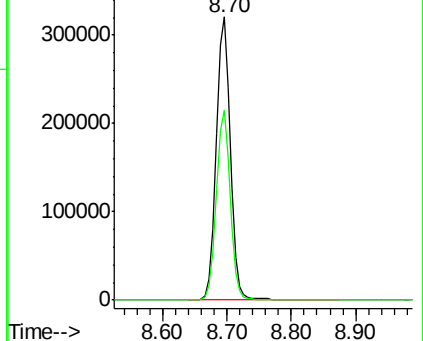
98 100

100 66.5 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#53

t-1,3-Dichloropropene

Concen: 1.856 ug/l

RT: 9.02 min Scan# 1302

Delta R.T. 0.01 min

Lab File: VX019464.D

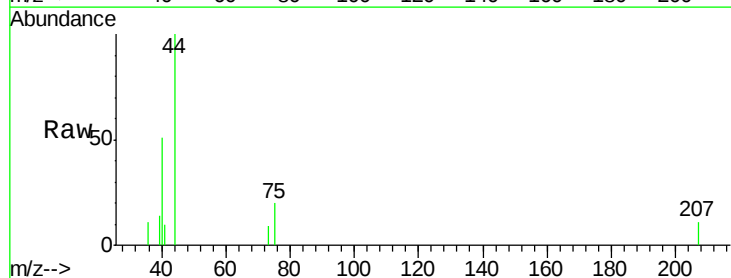
Acq: 18 Nov 2020 20:32

Tgt Ion: 75 Resp: 152

Ion Ratio Lower Upper

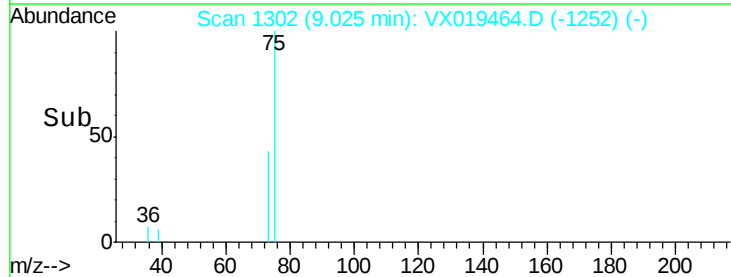
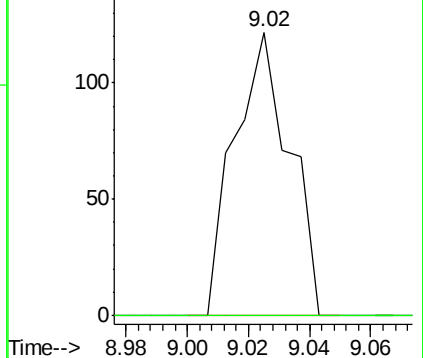
75 100

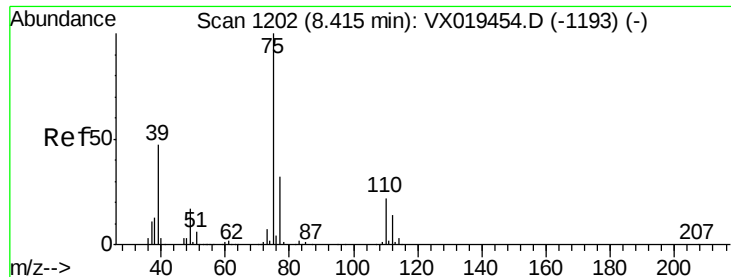
77 0.0 25.0 37.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0





#54

cis-1,3-Dichloropropene

Concen: 1.489 ug/l

RT: 8.40 min Scan# 1200

Delta R.T. -0.01 min

Lab File: VX019464.D

Acq: 18 Nov 2020 20:32

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB178-GW-678-680

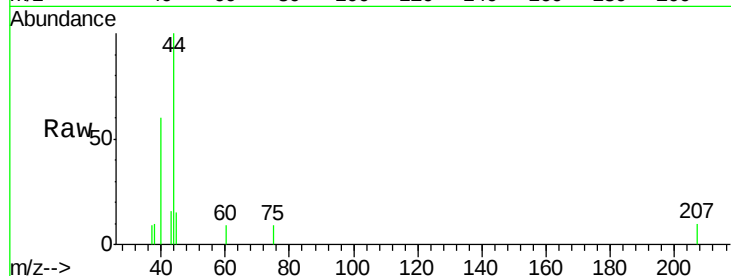
Tot Ion: 75 Resp: 20

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.2#

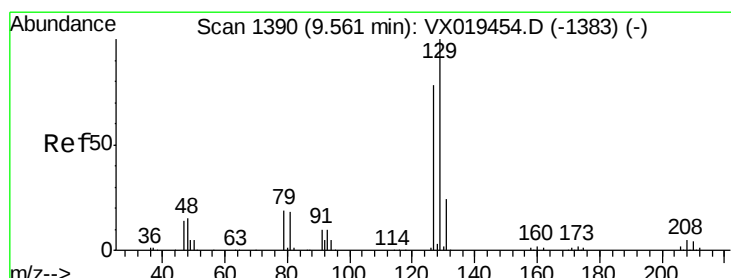
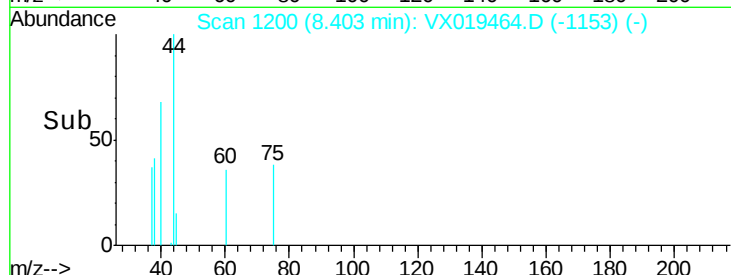
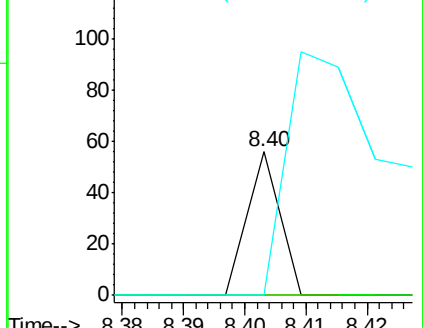
39 0.0 37.4 56.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0



#60

Dibromochloromethane

Concen: 1.662 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.24 min

Lab File: VX019464.D

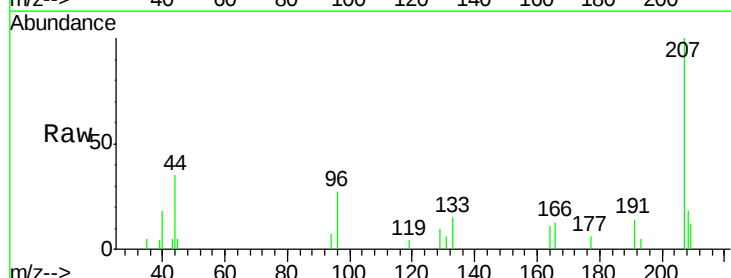
Acq: 18 Nov 2020 20:32

Tgt Ion: 129 Resp: 138

Ion Ratio Lower Upper

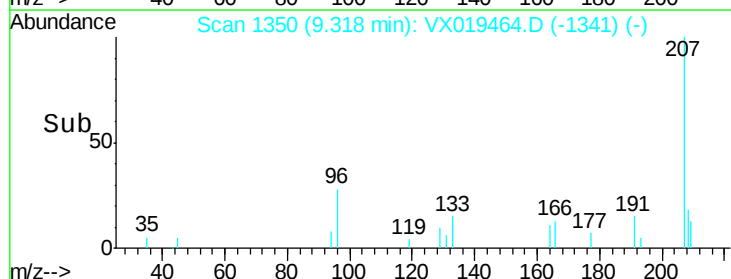
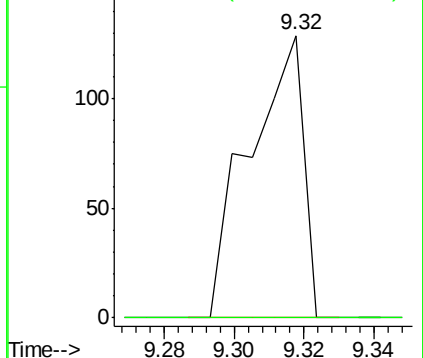
129 100

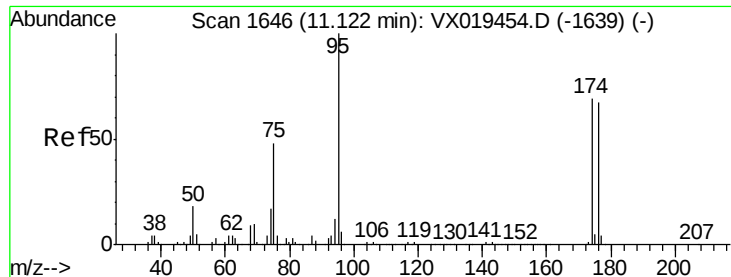
127 0.0 38.8 116.4#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

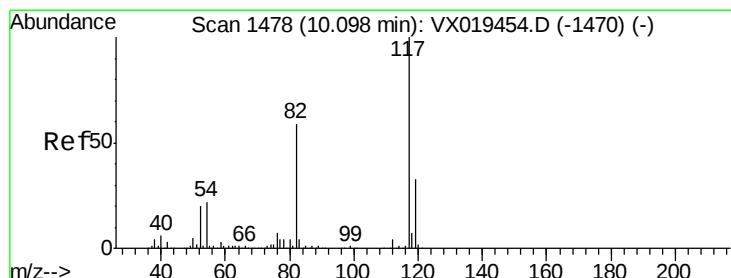
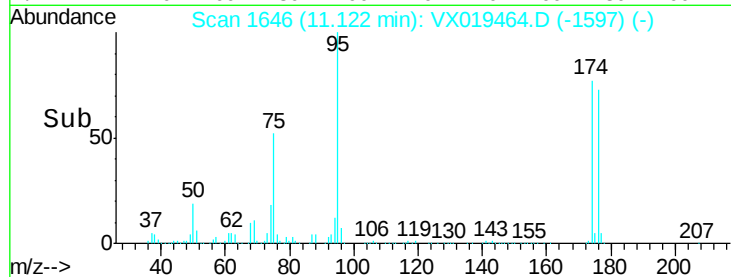
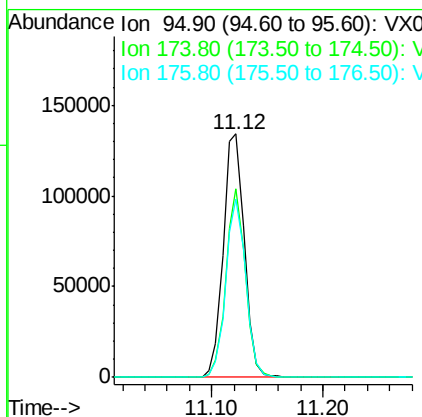
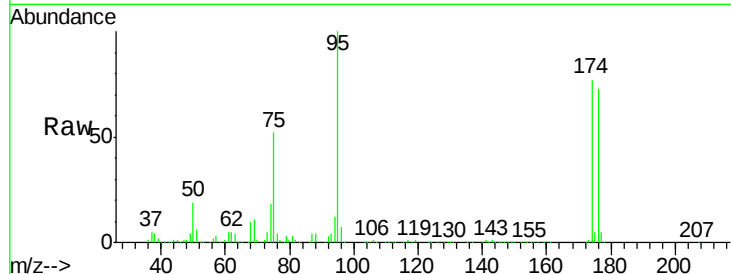




#62
4-Bromofluorobenzene
Concen: 45.789 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.00 min
Lab File: VX019464.D
Acq: 18 Nov 2020 20:32

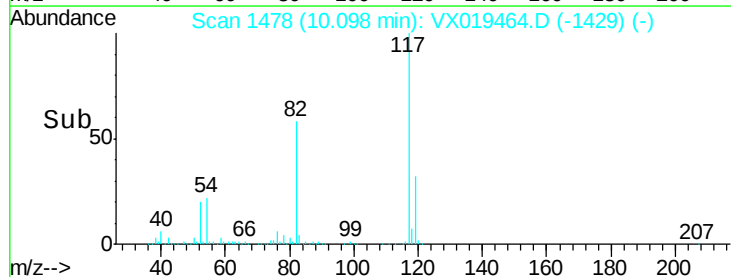
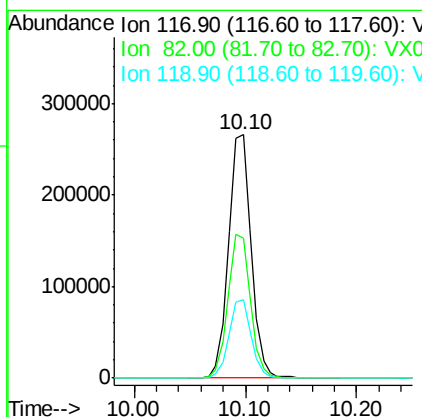
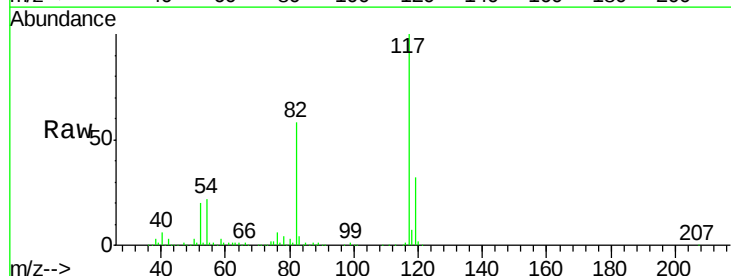
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB178-GW-678-680

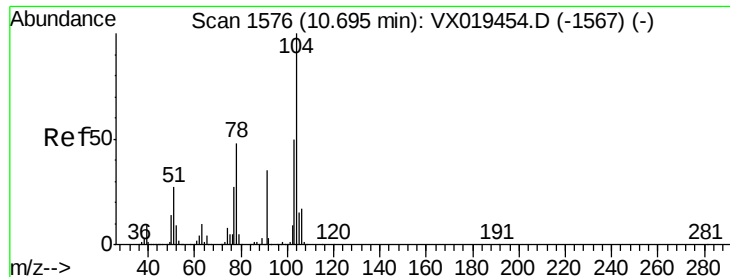
Tot Ion: 95 Resp: 175726
Ion Ratio Lower Upper
95 100
174 71.0 0.0 141.4
176 68.8 0.0 137.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX019464.D
Acq: 18 Nov 2020 20:32

Tgt Ion: 117 Resp: 373407
Ion Ratio Lower Upper
117 100
82 57.5 47.4 71.2
119 32.3 26.3 39.5





#70

Stvrene

Concen: 2.148 ug/l

RT: 10.70 min Scan# 1576

Delta R.T. 0.00 min

Lab File: VX019464.D

Acq: 18 Nov 2020 20:32

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB178-GW-678-680

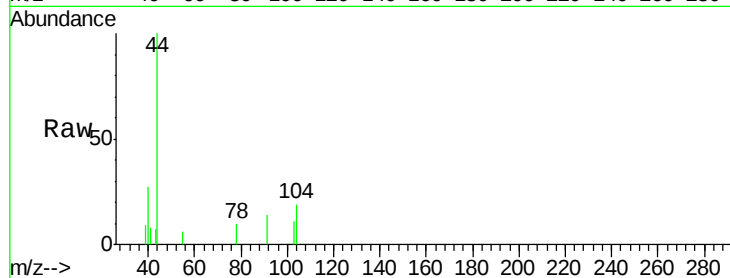
Tot Ion:104 Resp: 169

Ion Ratio Lower Upper

104 100

78 51.5 42.7 64.1

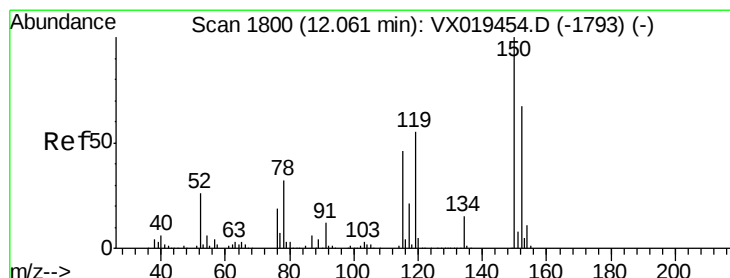
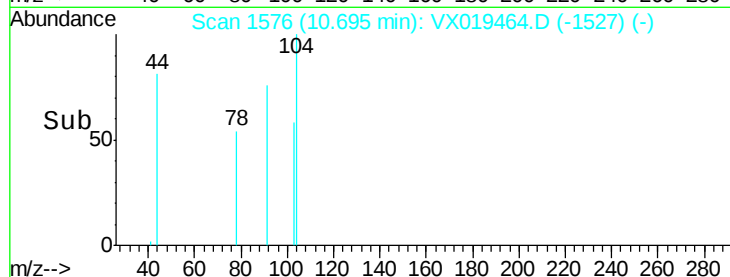
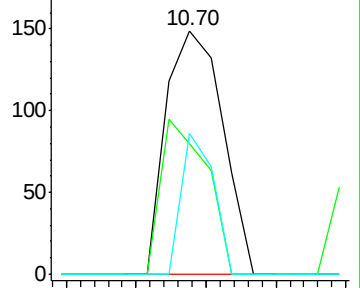
103 33.1 43.2 64.8#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VX0

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX019464.D

Acq: 18 Nov 2020 20:32

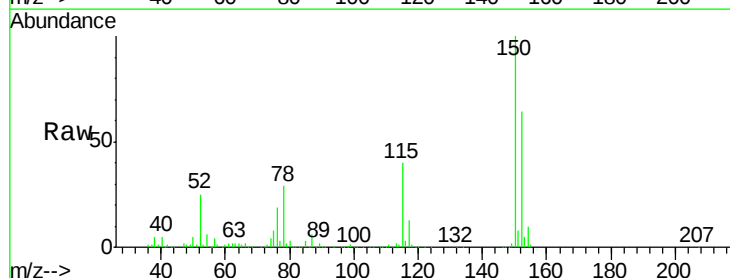
Tgt Ion:152 Resp: 156882

Ion Ratio Lower Upper

152 100

115 63.2 44.9 134.7

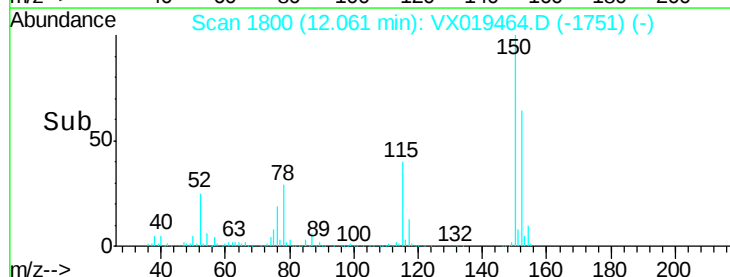
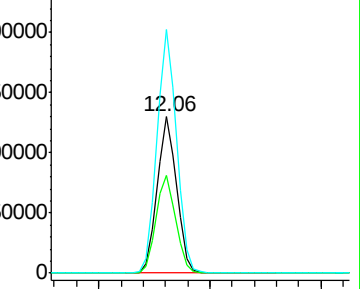
150 156.6 0.0 344.4

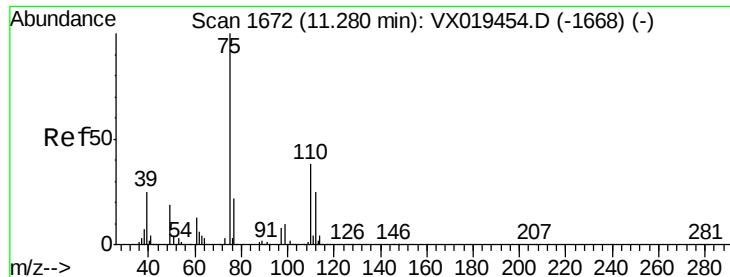


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 24.735 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. -0.16 min

Lab File: VX019464.D

Acq: 18 Nov 2020 20:32

Instrument :

MSVOA_X

ClientSampleId :

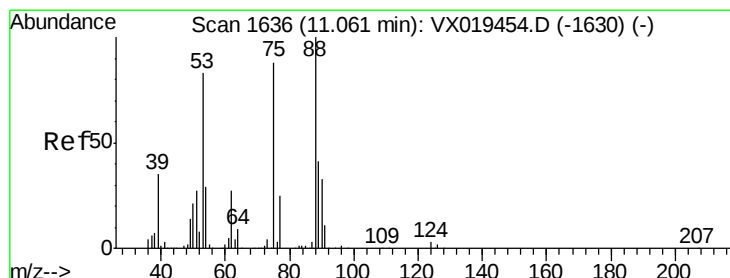
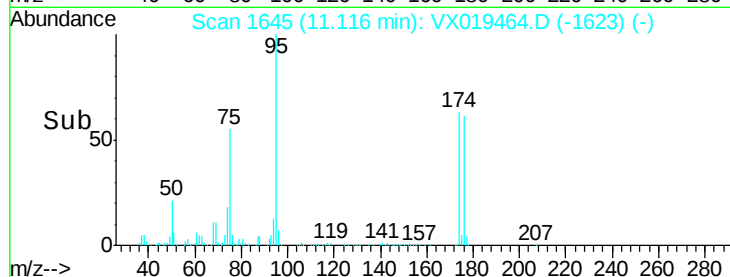
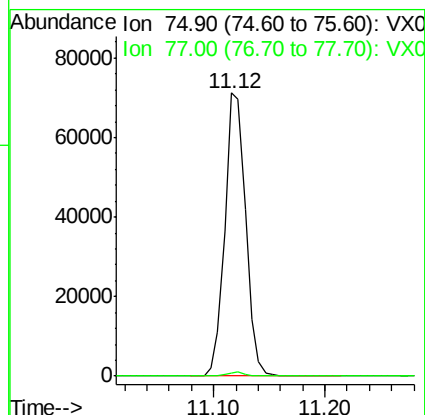
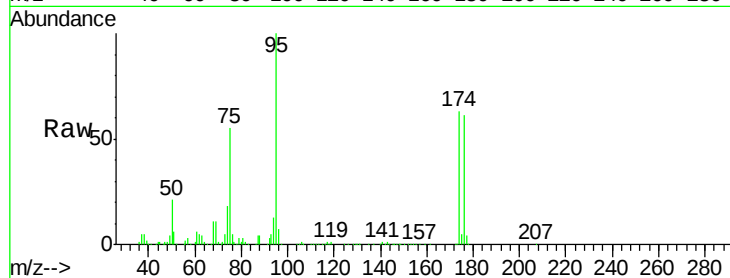
BP-VPB178-GW-678-680

Tot Ion: 75 Resp: 92515

Ion Ratio Lower Upper

75 100

77 1.2 20.0 59.9#



#81

trans-1,4-Dichloro-2-butene

Concen: 65.519 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. 0.05 min

Lab File: VX019464.D

Acq: 18 Nov 2020 20:32

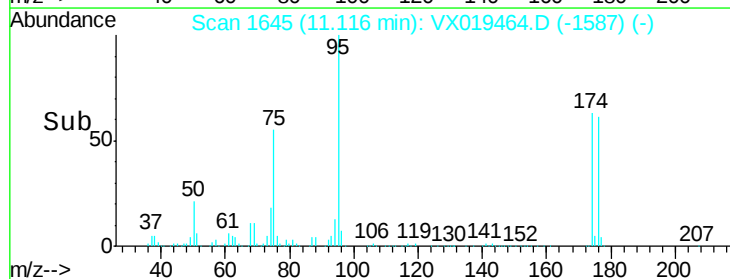
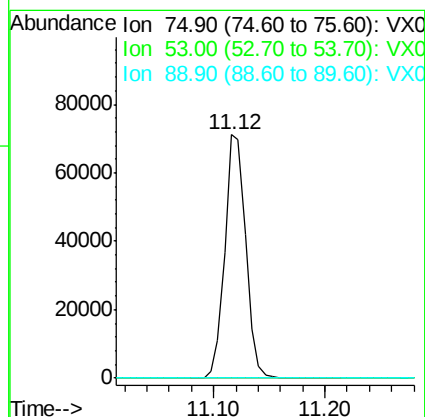
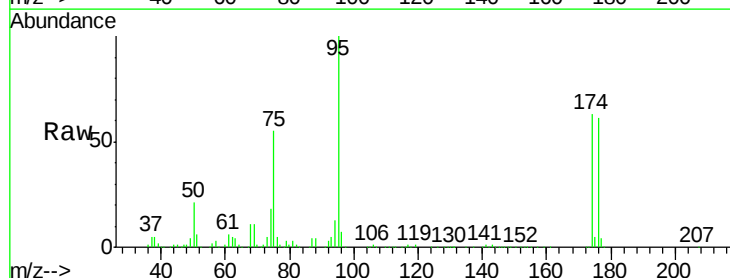
Tgt Ion: 75 Resp: 92515

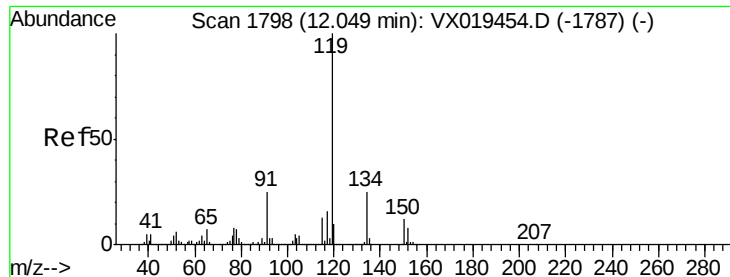
Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.6#

89 0.0 37.0 55.4#





#86

p-Isopropyltoluene

Concen: 1.642 ug/l

RT: 12.05 min Scan# 1799

Delta R.T. 0.01 min

Lab File: VX019464.D

Acq: 18 Nov 2020 20:32

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB178-GW-678-680

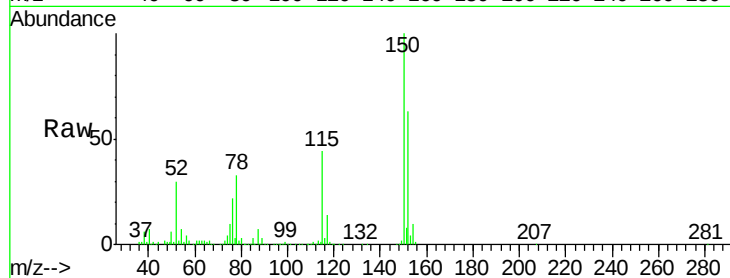
Tot Ion:119 Resp: 411

Ion Ratio Lower Upper

119 100

134 68.9 12.8 38.3#

91 128.2 12.6 37.6#

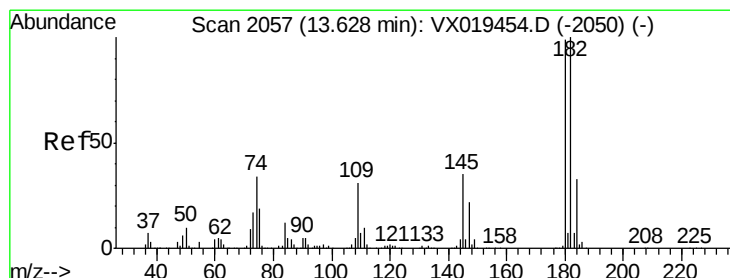
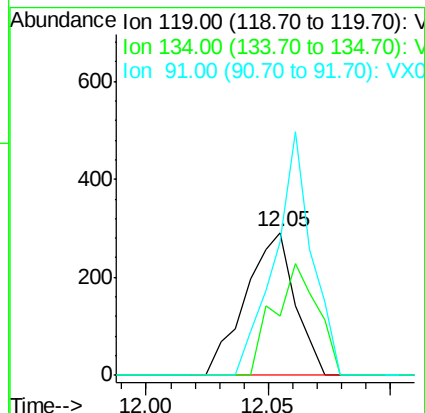
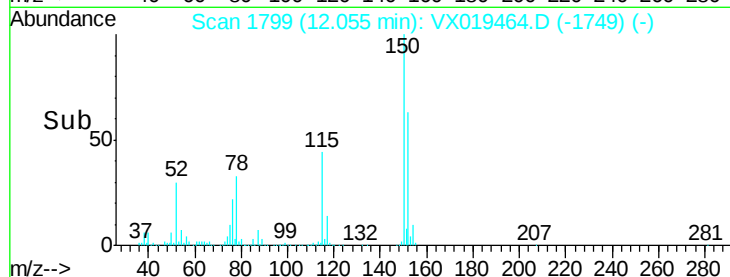


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

Time-->



#93

1,2,4-Trichlorobenzene

Concen: 2.821 ug/l

RT: 13.63 min Scan# 2057

Delta R.T. 0.00 min

Lab File: VX019464.D

Acq: 18 Nov 2020 20:32

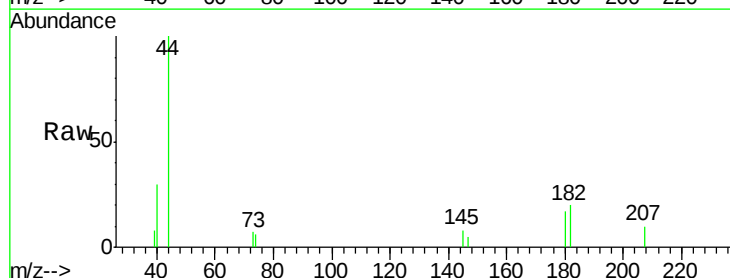
Tgt Ion:180 Resp: 230

Ion Ratio Lower Upper

180 100

182 95.7 48.1 144.4

145 47.8 16.9 50.6

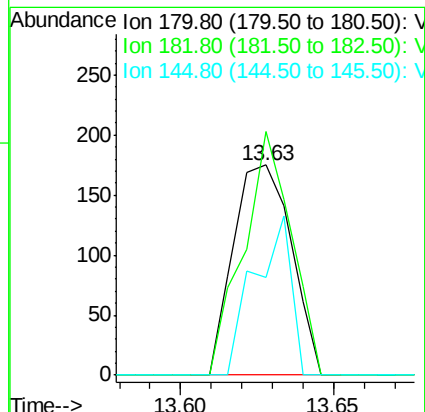
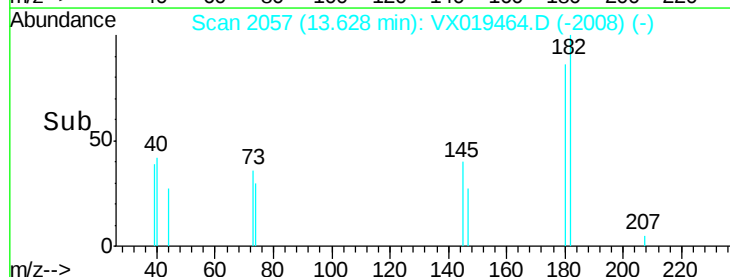


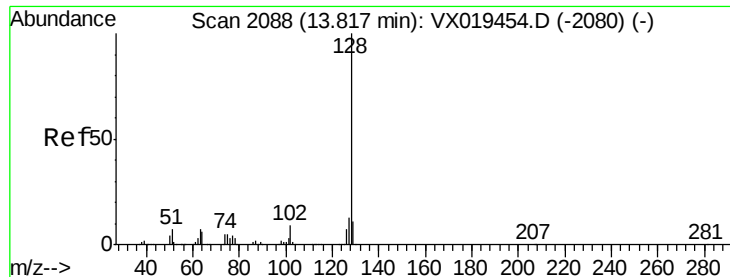
Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

Time-->





#95

Naphthalene

Concen: 2.374 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VX019464.D

Acq: 18 Nov 2020 20:32

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB178-GW-678-680

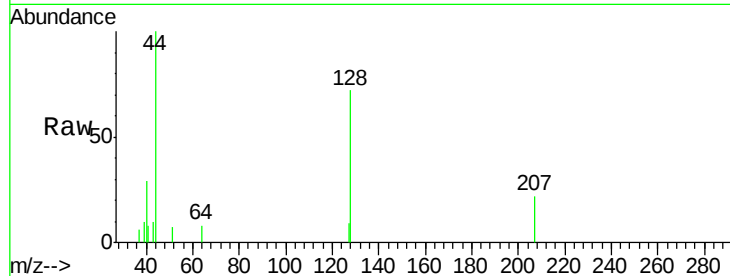
Tot Ion:128 Resp: 734

Ion Ratio Lower Upper

128 100

127 6.3 10.2 15.2#

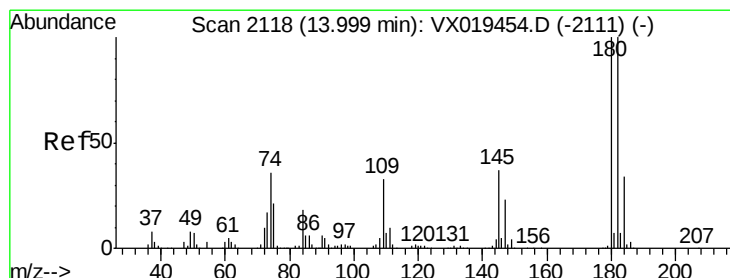
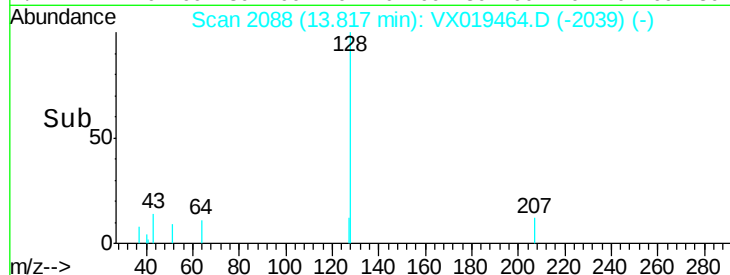
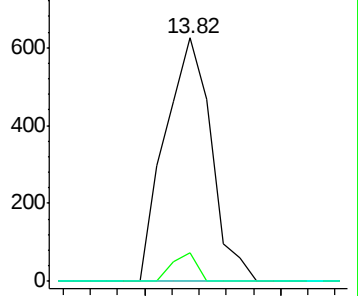
129 0.0 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 2.494 ug/l

RT: 14.01 min Scan# 2119

Delta R.T. 0.01 min

Lab File: VX019464.D

Acq: 18 Nov 2020 20:32

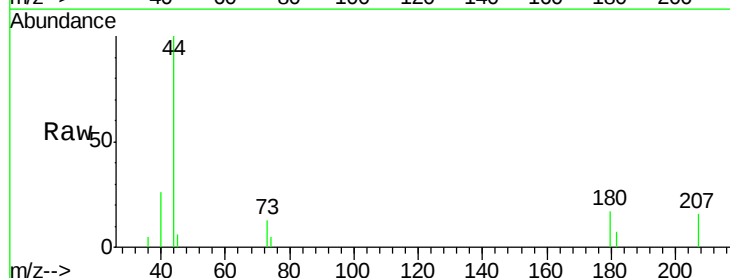
Tgt Ion:180 Resp: 189

Ion Ratio Lower Upper

180 100

182 78.3 49.0 147.0

145 0.0 17.6 52.8#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

