

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110720\
 Data File : VX019345.D
 Acq On : 06 Nov 2020 16:28
 Operator : JC/MD
 Sample : L4662-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB178-GW-378-380

Quant Time: Nov 07 01:06:02 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 27 13:55:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	301407	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	522706	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	493985	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	249046	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	208991	53.77	ug/l	0.00
Spiked Amount			Recovery	=	107.54%	
35) Dibromofluoromethane	5.46	113	161811	49.28	ug/l	0.00
Spiked Amount			Recovery	=	98.56%	
50) Toluene-d8	8.70	98	646820	52.26	ug/l	0.00
Spiked Amount			Recovery	=	104.52%	
62) 4-Bromofluorobenzene	11.12	95	248511	53.02	ug/l	0.00
Spiked Amount			Recovery	=	106.04%	

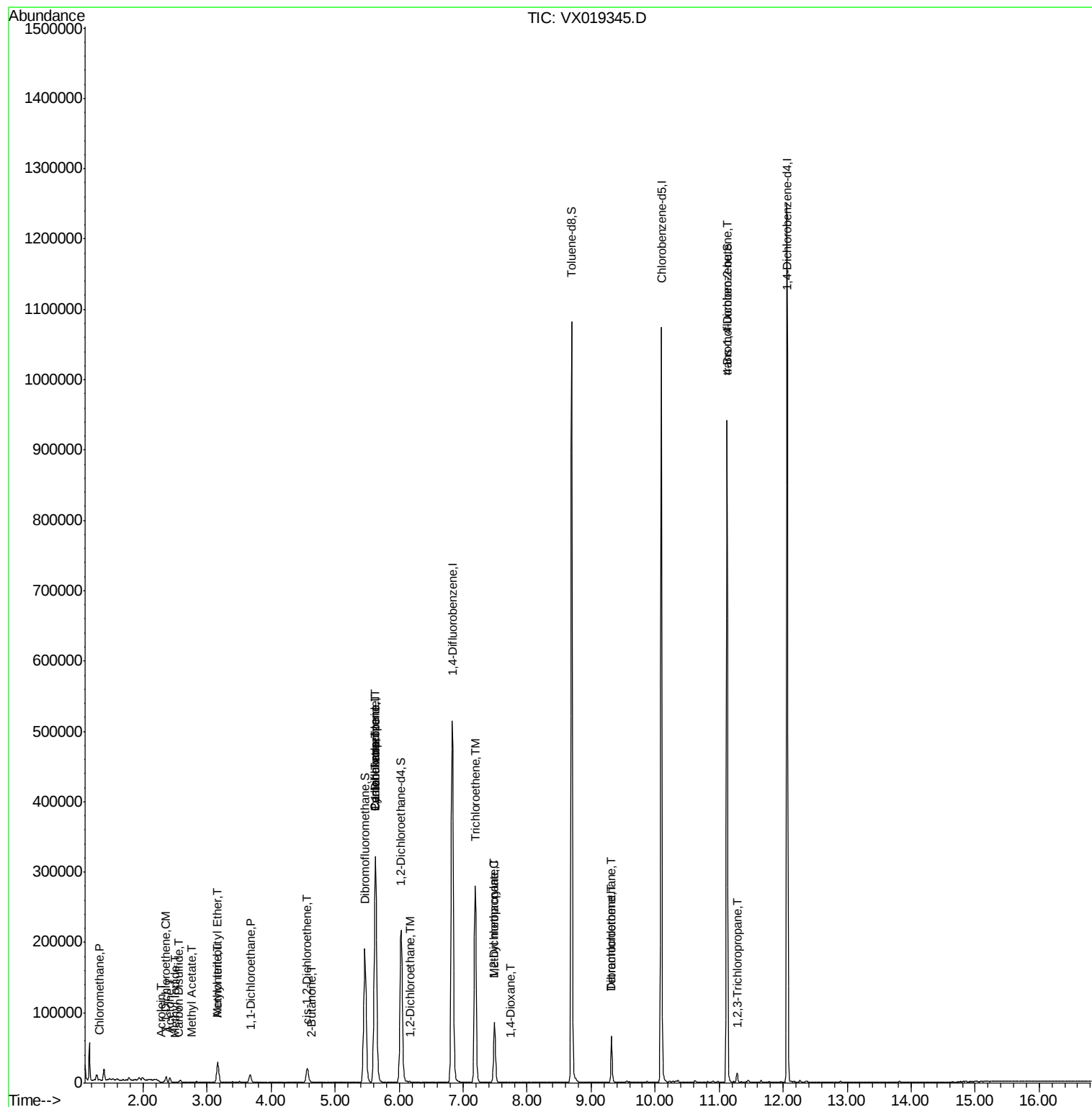
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	660	0.235	ug/l #	88
10) Methyl Iodide	2.50	142	27	6.386	ug/l #	39
12) 1,1-Dichloroethene	2.36	96	2656	0.909	ug/l	86
13) Acrolein	2.28	56	49	5.787	ug/l #	1
15) Acrylonitrile	3.17	53	413	0.256	ug/l #	10
16) Acetone	2.42	43	6807	5.076	ug/l	99
17) Carbon Disulfide	2.55	76	443	0.812	ug/l #	81
18) Methyl Acetate	2.76	43	741	0.227	ug/l #	47
19) Methyl tert-butyl Ether	3.17	73	33045	3.265	ug/l	97
24) 1,1-Dichloroethane	3.68	63	12879	2.338	ug/l	97
25) 2-Butanone	4.64	43	1413	0.669	ug/l #	76
27) cis-1,2-Dichloroethene	4.57	96	12708	3.383	ug/l	92
31) Cyclohexane	5.63	56	6840	1.392	ug/l #	13
36) 1,1-Dichloropropene	5.63	75	24325	5.040	ug/l #	49
38) Carbon Tetrachloride	5.63	117	31124	6.326	ug/l #	16
42) 1,2-Dichloroethane	6.17	62	1367	0.271	ug/l #	74
44) Trichloroethene	7.19	130	106514	27.176	ug/l	93
45) 1,2-Dichloropropane	7.49	63	33852	10.099	ug/l	99
48) Methyl methacrylate	7.49	41	18876	5.226	ug/l #	33
49) 1,4-Dioxane	7.74	88	170	2.116	ug/l #	69
60) Dibromochloromethane	9.32	129	12016	3.179	ug/l #	11
64) Tetrachloroethene	9.32	164	12014	3.192	ug/l	97
76) 1,2,3-Trichloropropane	11.28	75	4437	0.863	ug/l	84
81) trans-1,4-Dichloro-2-buten	11.12	75	127751	65.412	ug/l #	12

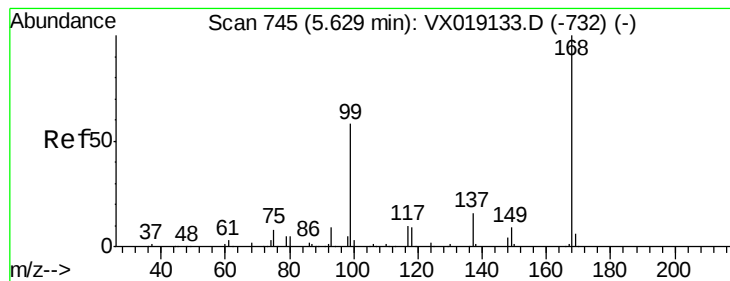
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Nov 07 01:06:02 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X102720W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 27 13:55:07 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX019345.D

Acq: 06 Nov 2020 16:28

Instrument :

MSVOA_X

ClientSampleId :

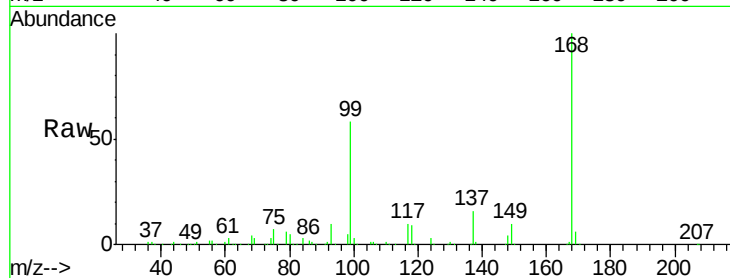
BP-VPB178-GW-378-380

Tot Ion:168 Resp: 301407

Ion Ratio Lower Upper

168 100

99 57.5 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

120000

100000

80000

60000

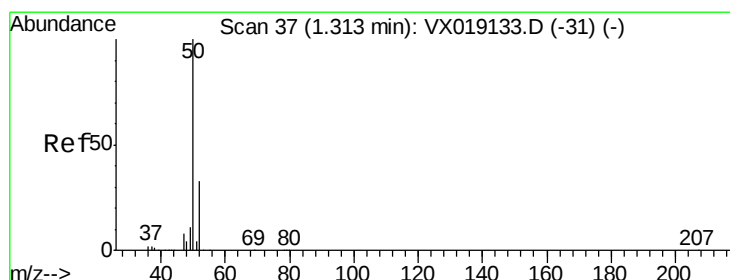
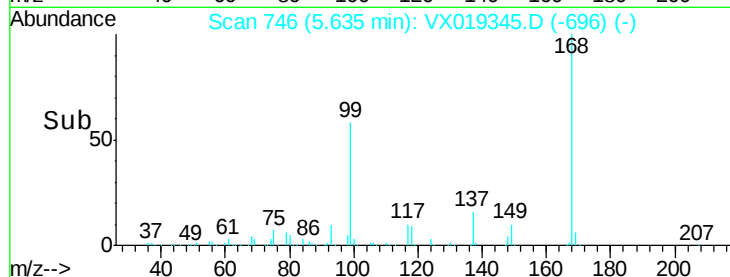
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.235 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX019345.D

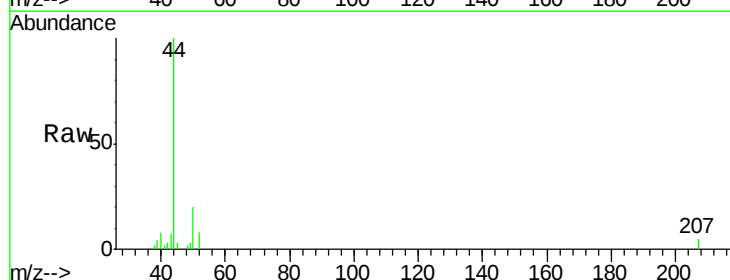
Acq: 06 Nov 2020 16:28

Tgt Ion: 50 Resp: 660

Ion Ratio Lower Upper

50 100

52 40.5 26.8 40.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

600

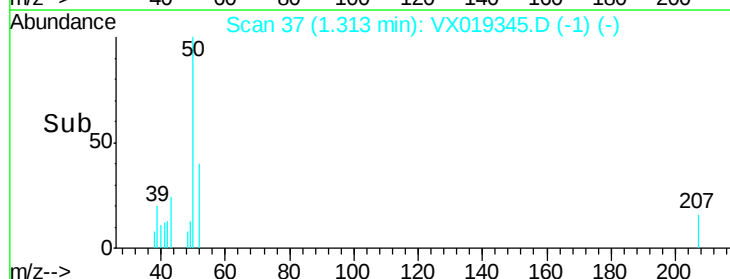
400

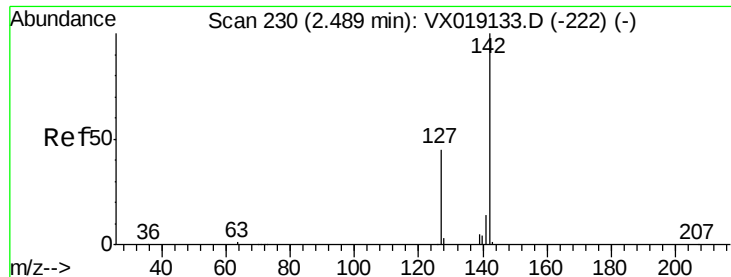
200

0

Time-->

1.30 1.35

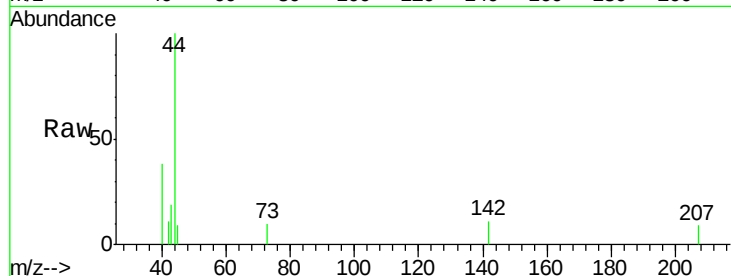




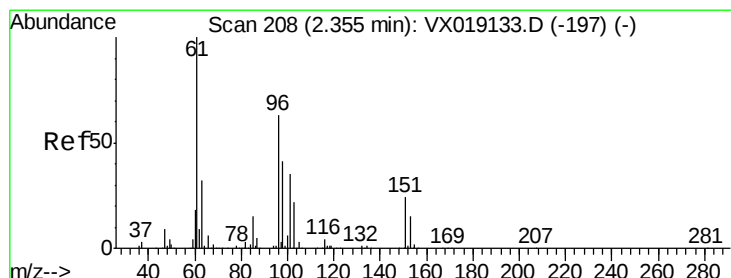
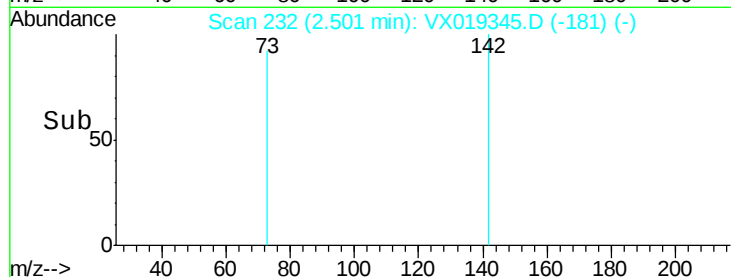
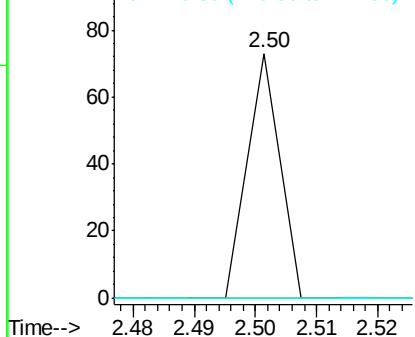
#10
Methyl Iodide
Concen: 6.386 ug/l
RT: 2.50 min Scan# 232
Delta R.T. 0.01 min
Lab File: VX019345.D
Acq: 06 Nov 2020 16:28

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB178-GW-378-380

Tot Ion:142 Resp: 27
Ion Ratio Lower Upper
142 100
127 0.0 36.1 54.1#
141 0.0 11.3 16.9#

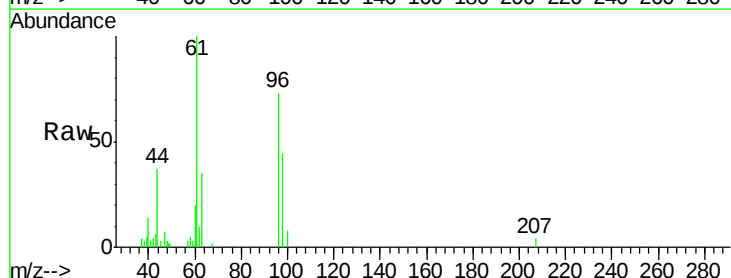


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

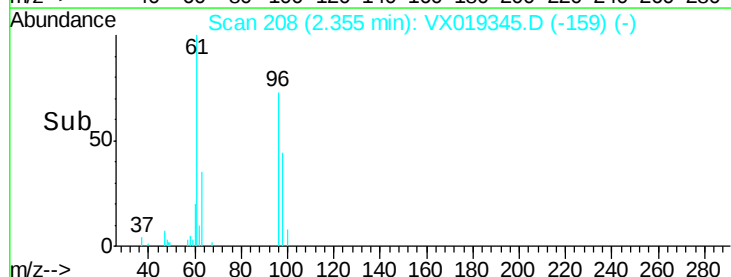
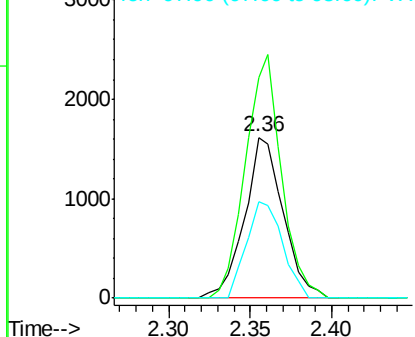


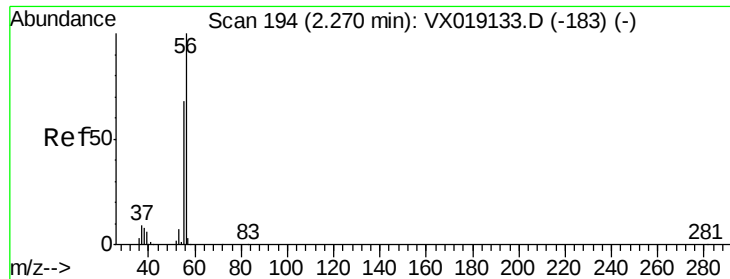
#12
1,1-Dichloroethene
Concen: 0.909 ug/l
RT: 2.36 min Scan# 208
Delta R.T. -0.00 min
Lab File: VX019345.D
Acq: 06 Nov 2020 16:28

Tgt Ion: 96 Resp: 2656
Ion Ratio Lower Upper
96 100
61 137.3 127.7 191.5
98 59.9 52.1 78.1



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0

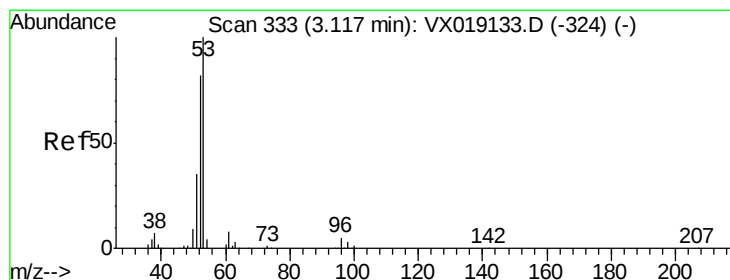
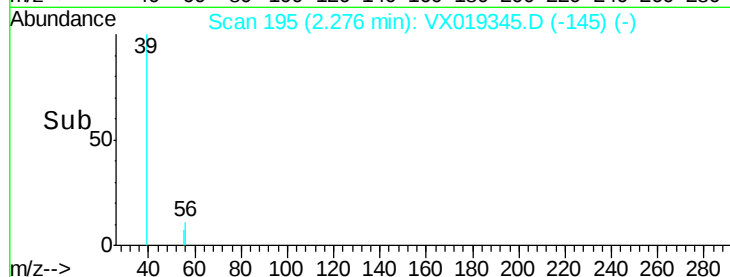
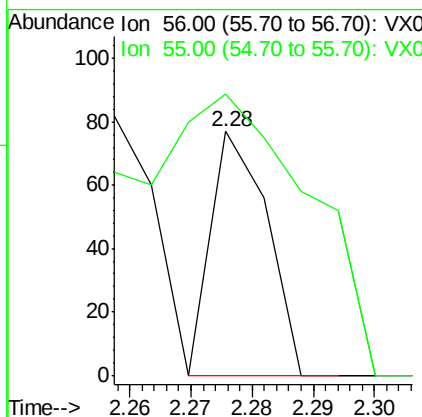
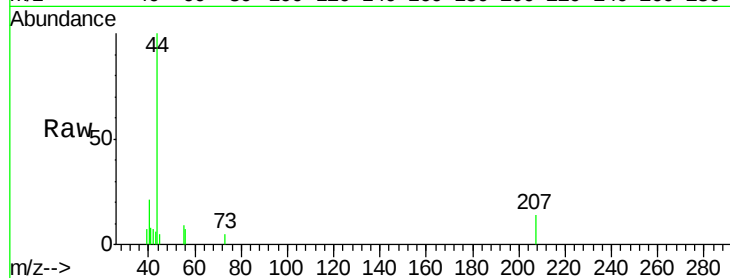




#13
Acrolein
Concen: 5.787 ug/l
RT: 2.28 min Scan# 195
Delta R.T. 0.01 min
Lab File: VX019345.D
Acq: 06 Nov 2020 16:28

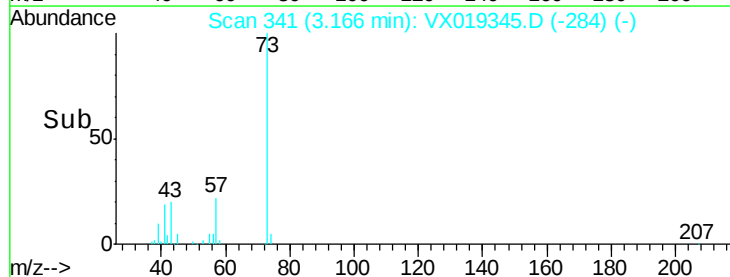
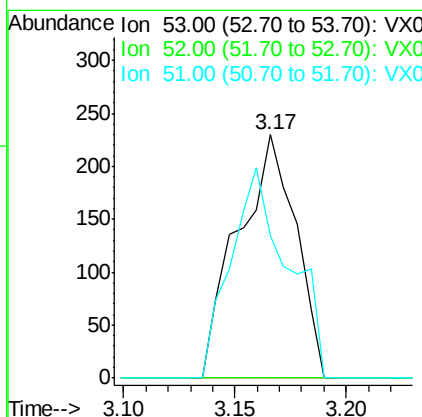
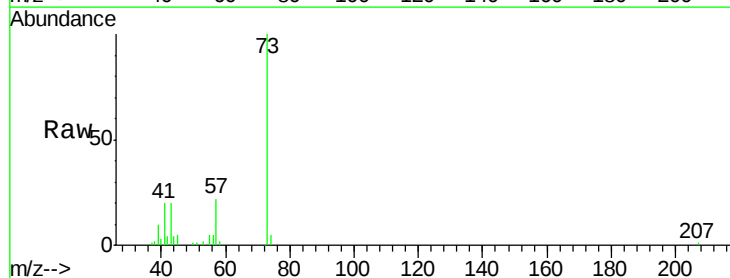
Instrument :
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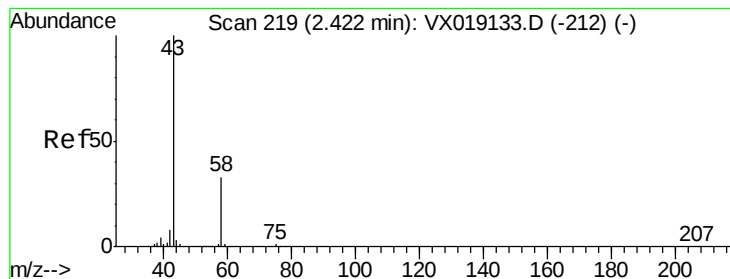
Tot Ion: 56 Resp: 49
Ion Ratio Lower Upper
56 100
55 265.3 54.7 82.1#



#15
Acrylonitrile
Concen: 0.256 ug/l
RT: 3.17 min Scan# 341
Delta R.T. 0.05 min
Lab File: VX019345.D
Acq: 06 Nov 2020 16:28

Tgt Ion: 53 Resp: 413
Ion Ratio Lower Upper
53 100
52 0.0 65.7 98.5#
51 86.4 28.4 42.6#





#16

Acetone

Concen: 5.076 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX019345.D

Acq: 06 Nov 2020 16:28

Instrument :

MSVOA_X

ClientSampleId :

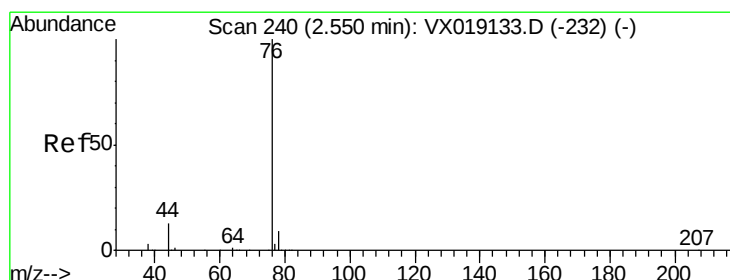
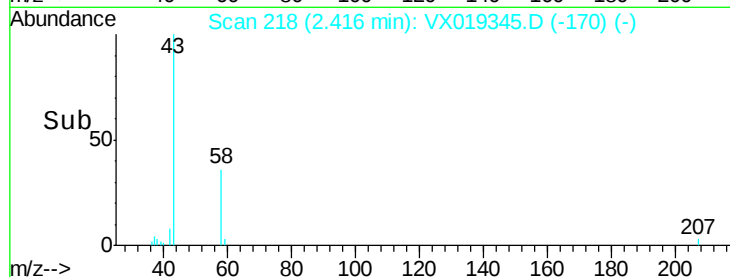
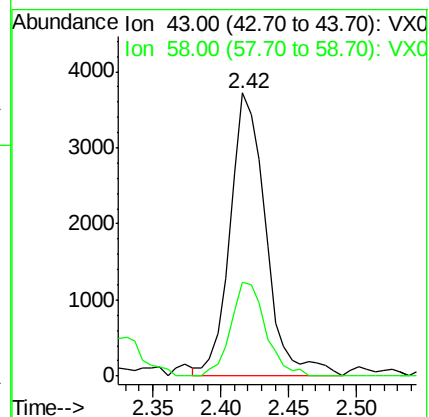
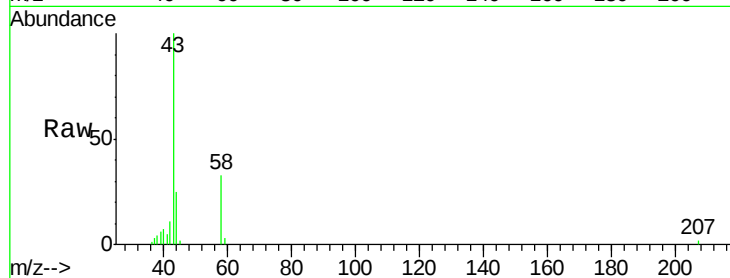
BP-VPB178-GW-378-380

Tot Ion: 43 Resp: 6807

Ion Ratio Lower Upper

43 100

58 33.3 26.3 39.5



#17

Carbon Disulfide

Concen: 0.812 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX019345.D

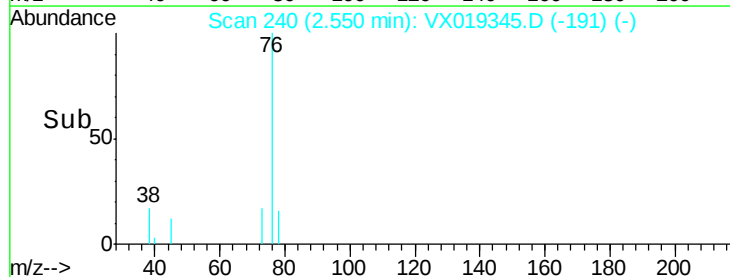
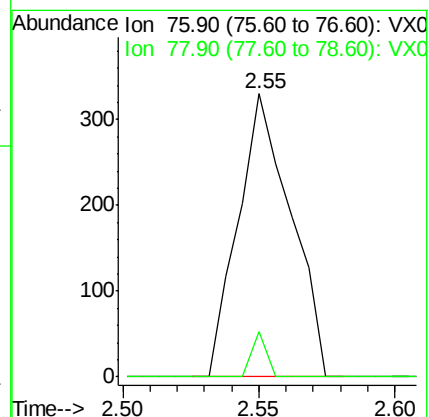
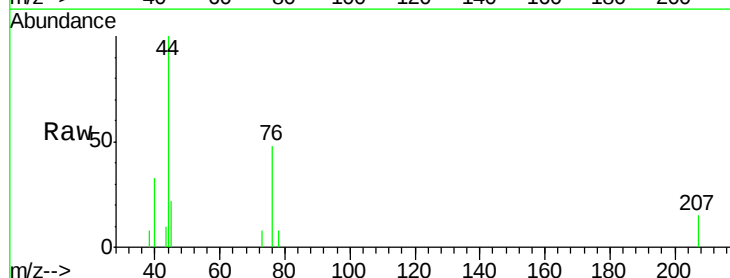
Acq: 06 Nov 2020 16:28

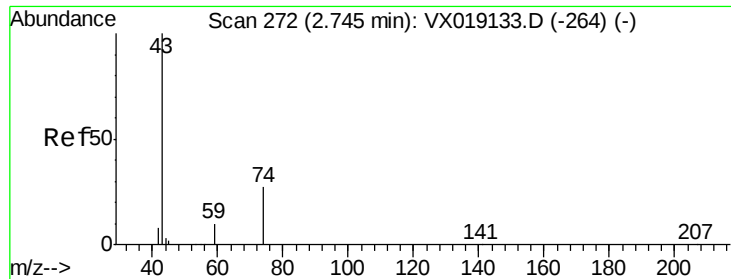
Tgt Ion: 76 Resp: 443

Ion Ratio Lower Upper

76 100

78 16.1 7.3 10.9#

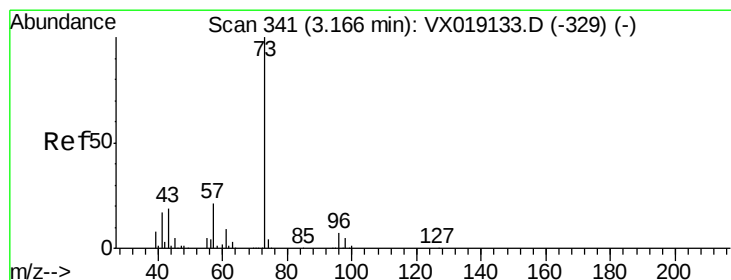
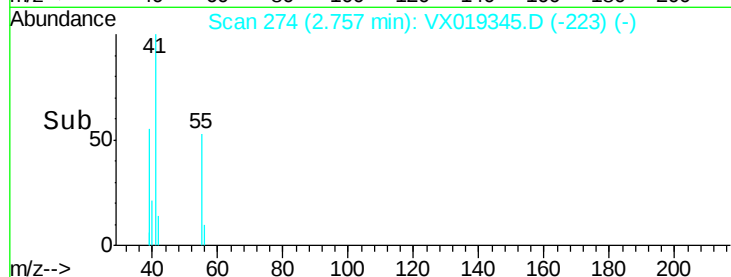
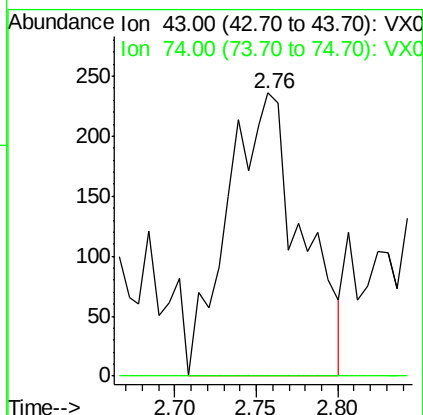
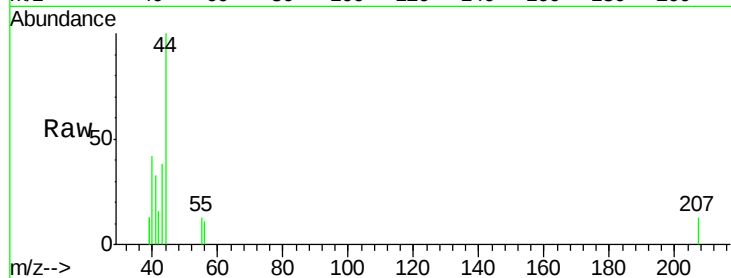




#18
Methyl Acetate
Concen: 0.227 ug/l
RT: 2.76 min Scan# 274
Delta R.T. 0.01 min
Lab File: VX019345.D
Acq: 06 Nov 2020 16:28

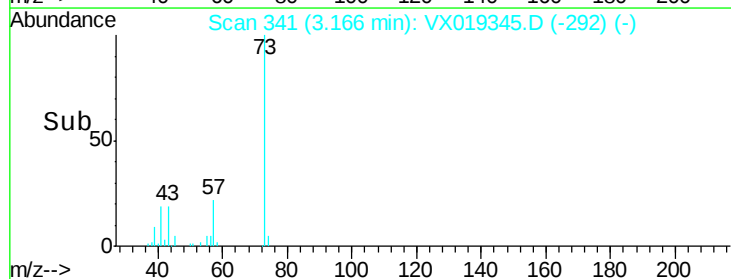
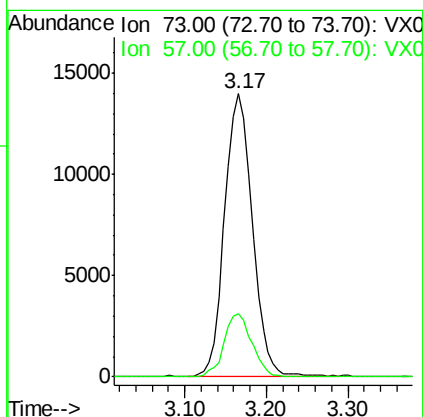
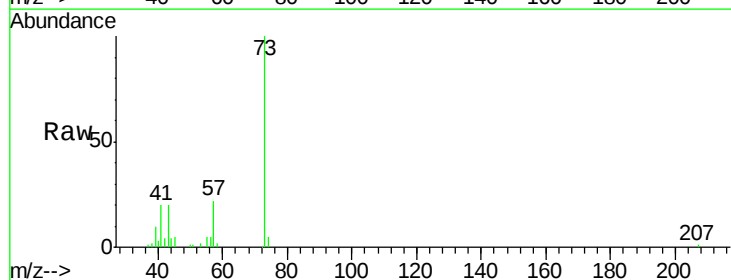
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB178-GW-378-380

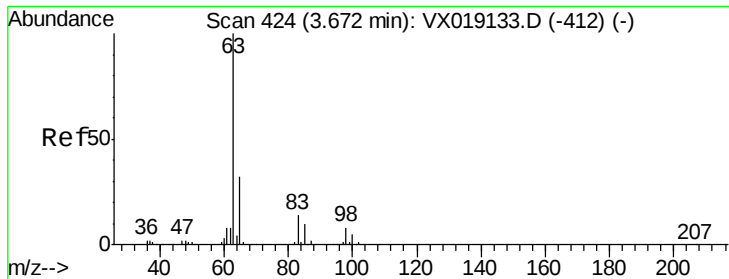
Tot Ion: 43 Resp: 741
Ion Ratio Lower Upper
43 100
74 0.0 22.6 33.8#



#19
Methyl tert-butyl Ether
Concen: 3.265 ug/l
RT: 3.17 min Scan# 341
Delta R.T. -0.00 min
Lab File: VX019345.D
Acq: 06 Nov 2020 16:28

Tgt Ion: 73 Resp: 33045
Ion Ratio Lower Upper
73 100
57 22.4 16.6 25.0





#24

1,1-Dichloroethane

Concen: 2.338 ug/l

RT: 3.68 min Scan# 425

Delta R.T. 0.01 min

Lab File: VX019345.D

Acq: 06 Nov 2020 16:28

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB178-GW-378-380

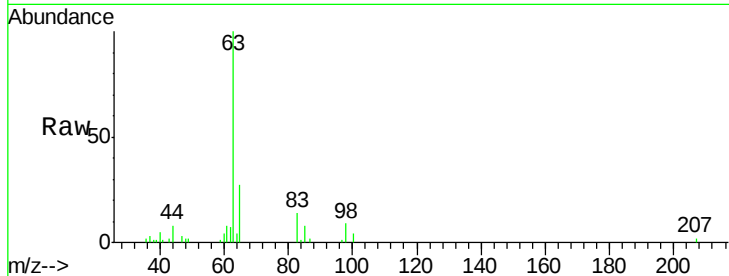
Tot Ion: 63 Resp: 12879

Ion Ratio Lower Upper

63 100

98 8.8 3.8 11.4

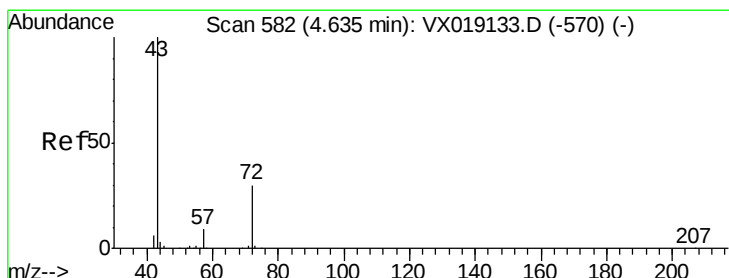
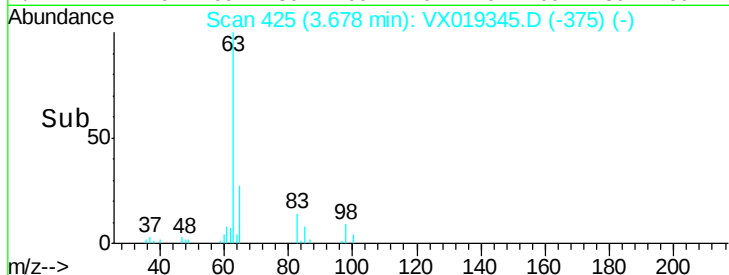
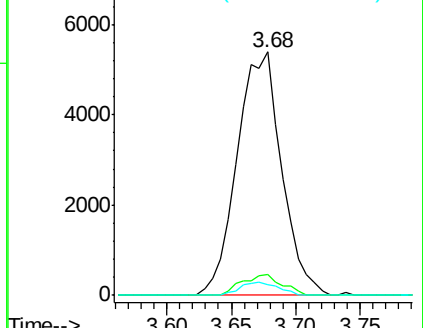
100 4.5 2.4 7.2



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: 0.669 ug/l

RT: 4.64 min Scan# 582

Delta R.T. -0.00 min

Lab File: VX019345.D

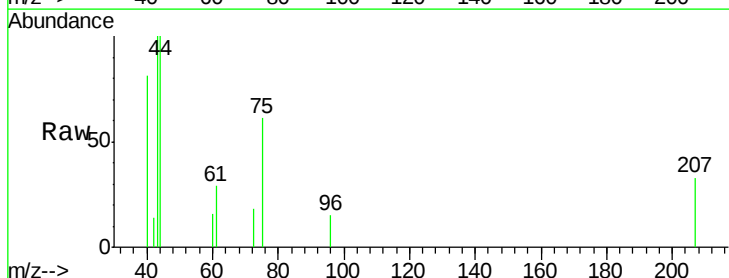
Acq: 06 Nov 2020 16:28

Tgt Ion: 43 Resp: 1413

Ion Ratio Lower Upper

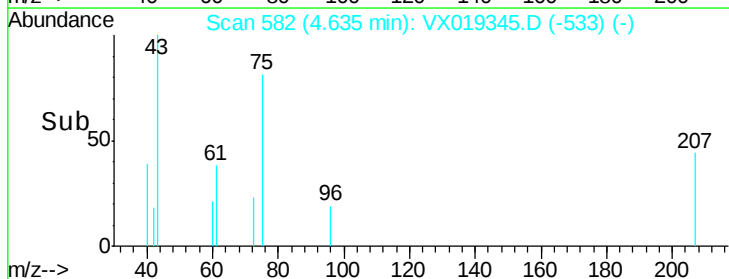
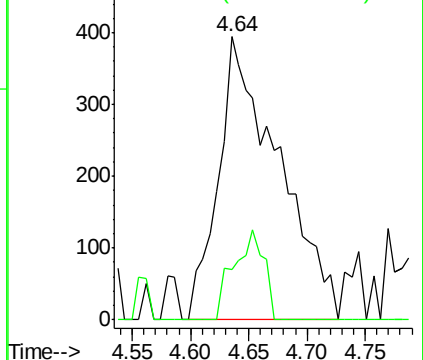
43 100

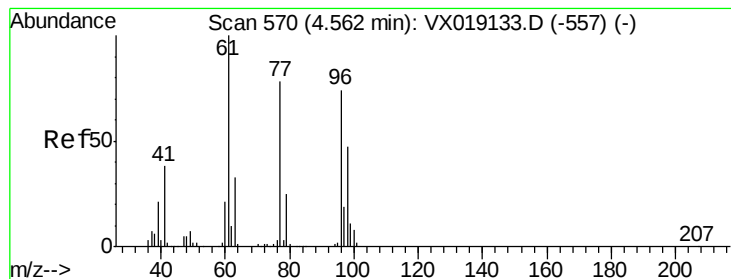
72 17.8 24.6 36.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



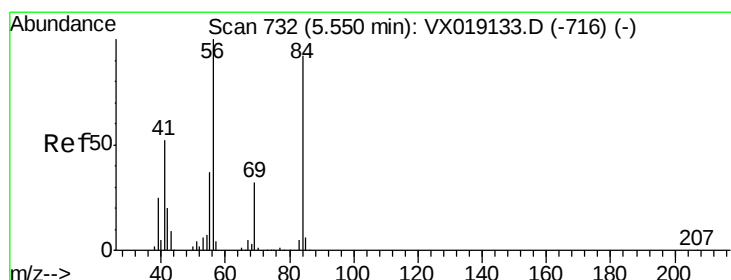
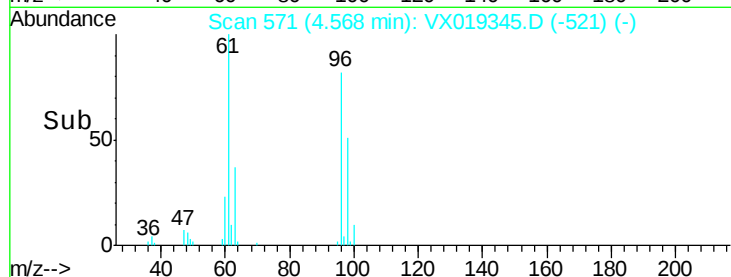
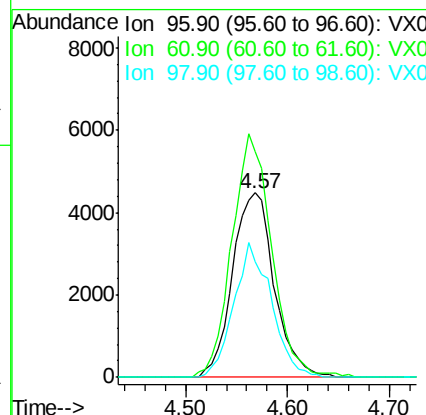
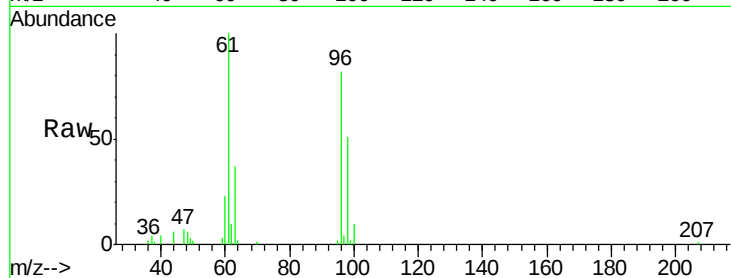


#27

cis-1,2-Dichloroethene
Concen: 3.383 ug/l
RT: 4.57 min Scan# 571
Delta R.T. 0.01 min
Lab File: VX019345.D
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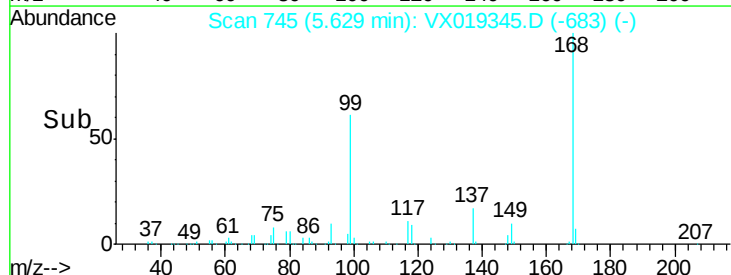
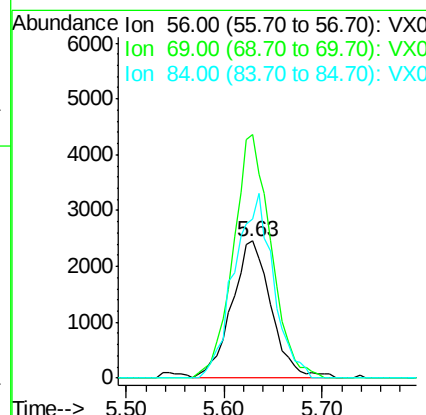
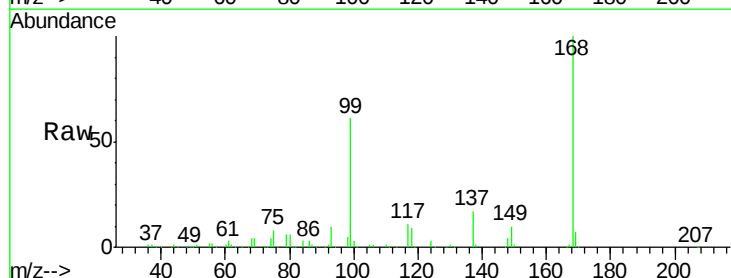
Tot Ion: 96 Resp: 12708
Ion Ratio Lower Upper
96 100
61 126.1 0.0 278.8
98 66.1 0.0 130.2

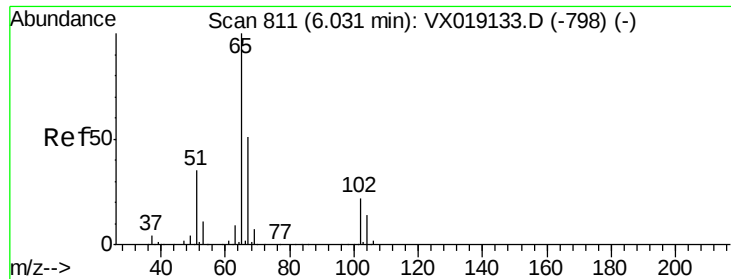


#31

Cyclohexane
Concen: 1.392 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.08 min
Lab File: VX019345.D
Acq: 06 Nov 2020 16:28

Tgt Ion: 56 Resp: 6840
Ion Ratio Lower Upper
56 100
69 178.0 25.9 38.9#
84 116.4 73.4 110.2#





#33

1,2-Dichloroethane-d4

Concen: 53.766 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX019345.D

Acq: 06 Nov 2020 16:28

Instrument :

MSVOA_X

ClientSampleId :

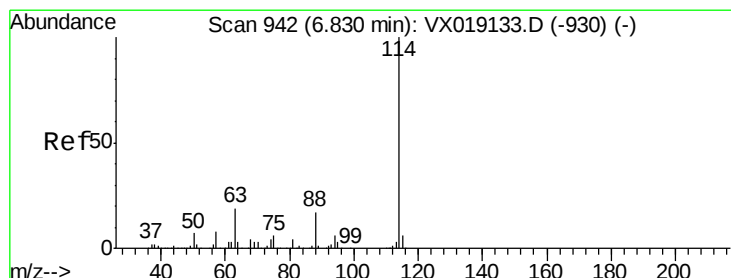
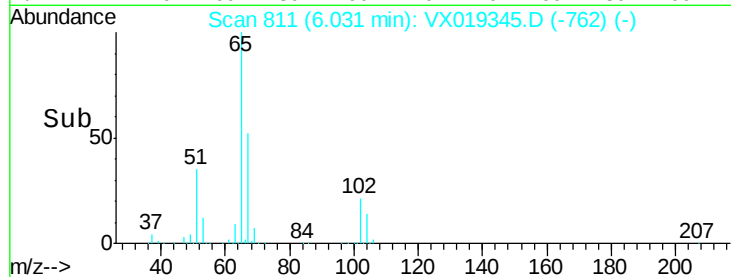
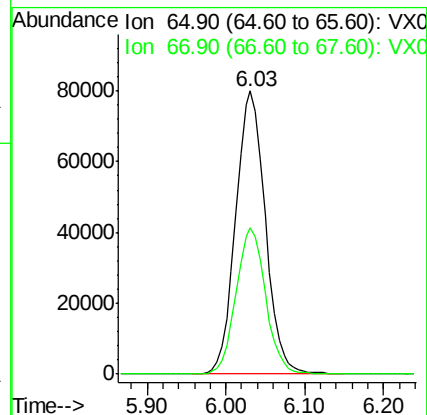
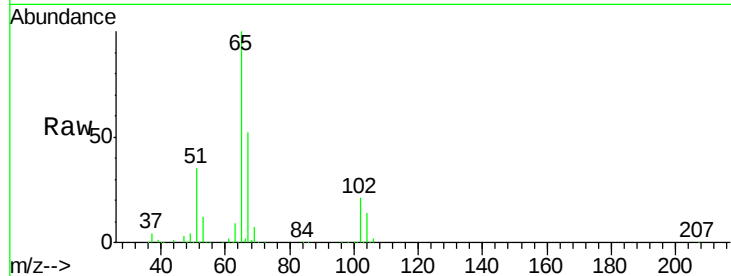
BP-VPB178-GW-378-380

Tot Ion: 65 Resp: 208991

Ion Ratio Lower Upper

65 100

67 51.7 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX019345.D

Acq: 06 Nov 2020 16:28

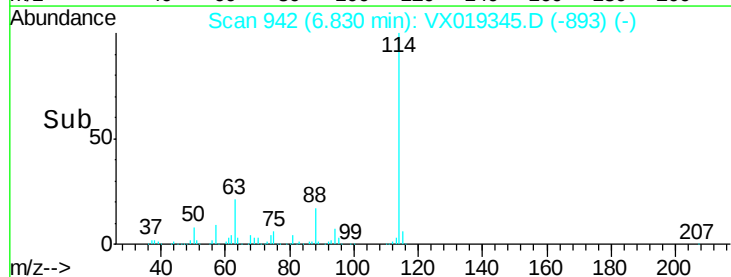
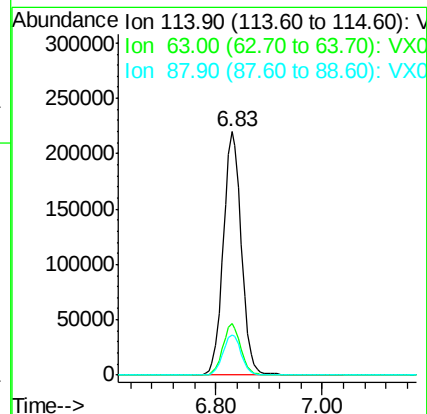
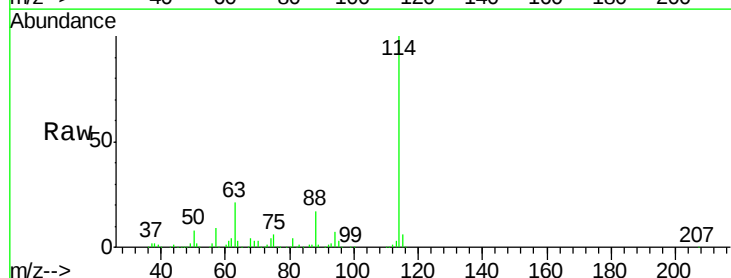
Tgt Ion: 114 Resp: 522706

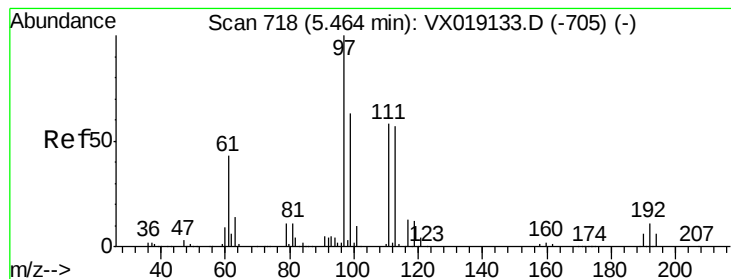
Ion Ratio Lower Upper

114 100

63 21.1 0.0 38.8

88 16.7 0.0 34.2





#35

Dibromofluoromethane

Concen: 49.283 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX019345.D

Acq: 06 Nov 2020 16:28

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB178-GW-378-380

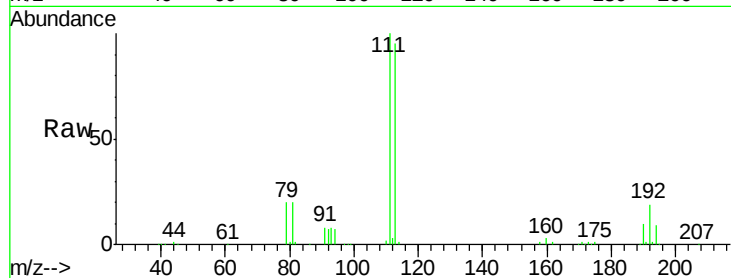
Tot Ion:113 Resp: 161811

Ion Ratio Lower Upper

113 100

111 103.6 82.3 123.5

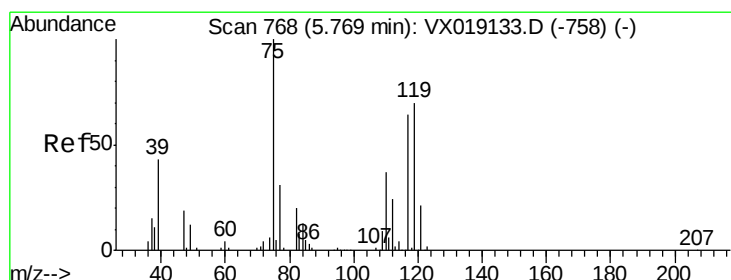
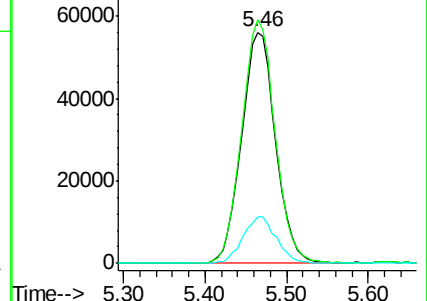
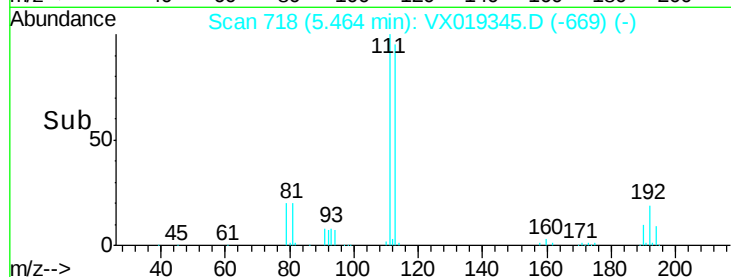
192 19.8 16.2 24.2



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: 5.040 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX019345.D

Acq: 06 Nov 2020 16:28

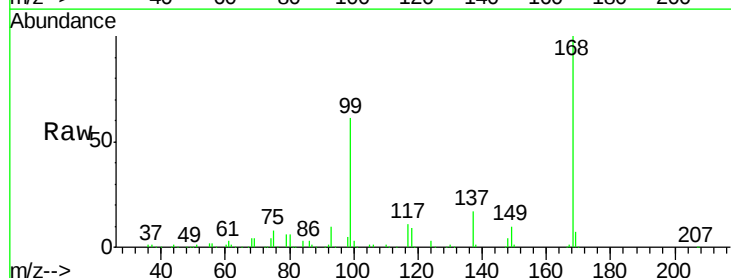
Tgt Ion: 75 Resp: 24325

Ion Ratio Lower Upper

75 100

110 9.0 18.3 54.9#

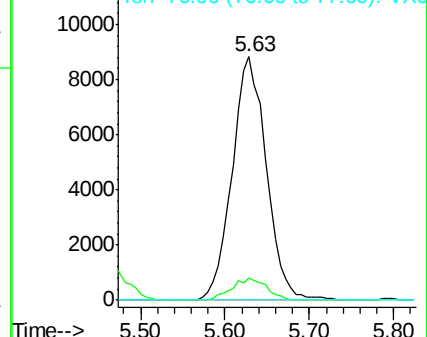
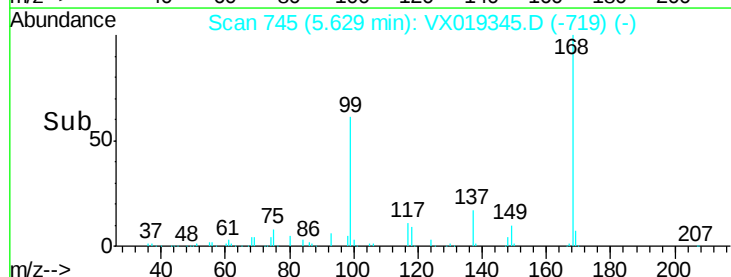
77 0.0 24.9 37.3#

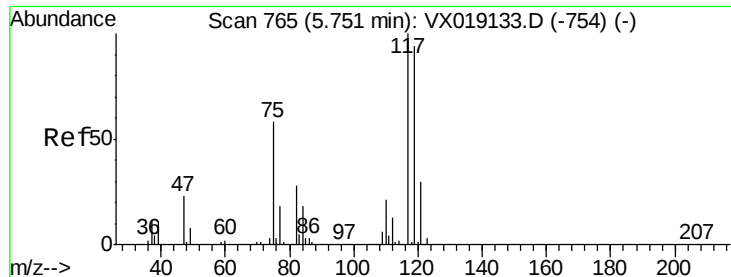


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.326 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019345.D

Acq: 06 Nov 2020 16:28

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB178-GW-378-380

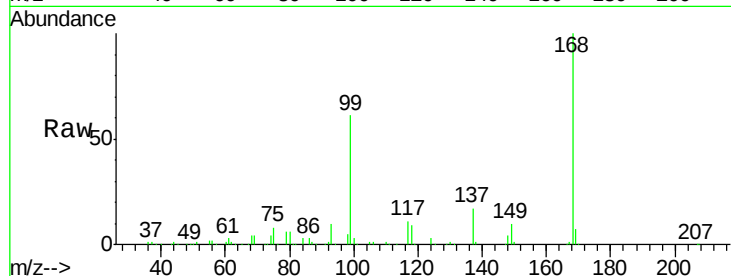
Tot Ion:117 Resp: 31124

Ion Ratio Lower Upper

117 100

119 4.6 75.0 112.6#

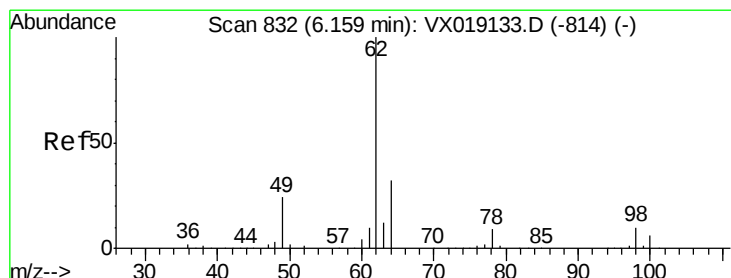
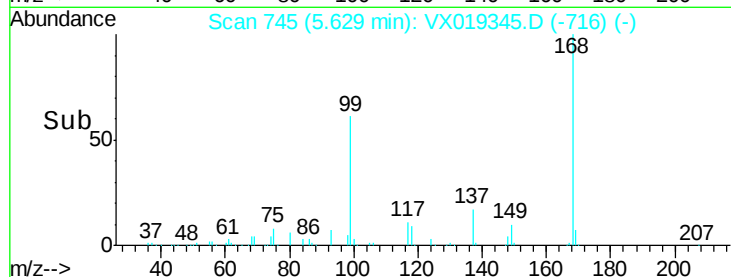
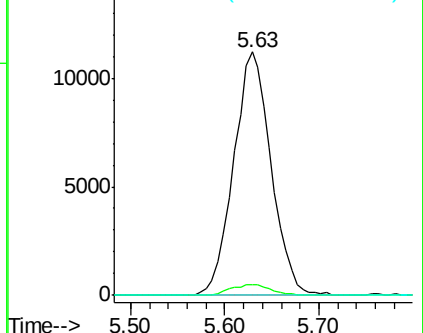
121 0.0 23.9 35.9#



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



#42

1,2-Dichloroethane

Concen: 0.271 ug/l

RT: 6.17 min Scan# 833

Delta R.T. 0.01 min

Lab File: VX019345.D

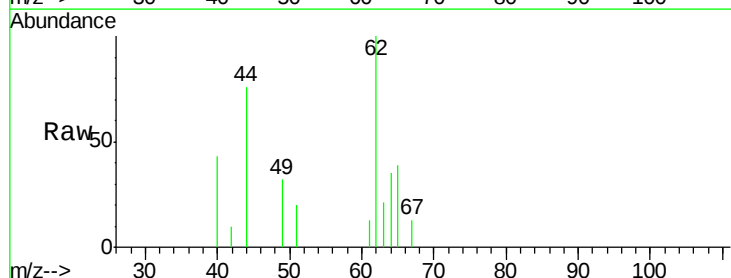
Acq: 06 Nov 2020 16:28

Tgt Ion: 62 Resp: 1367

Ion Ratio Lower Upper

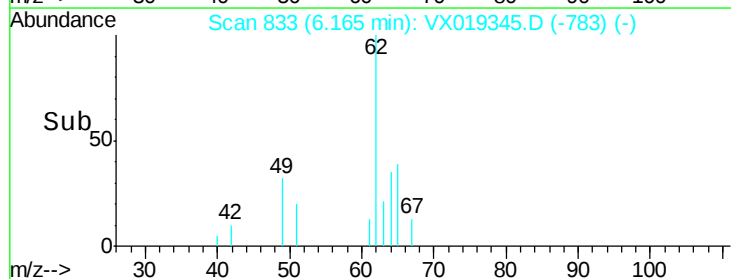
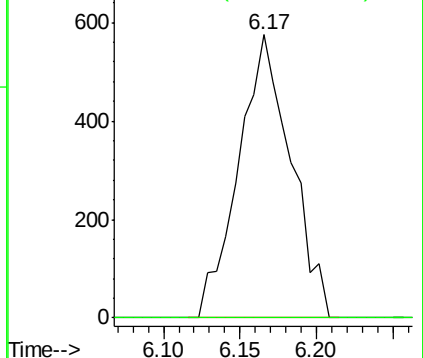
62 100

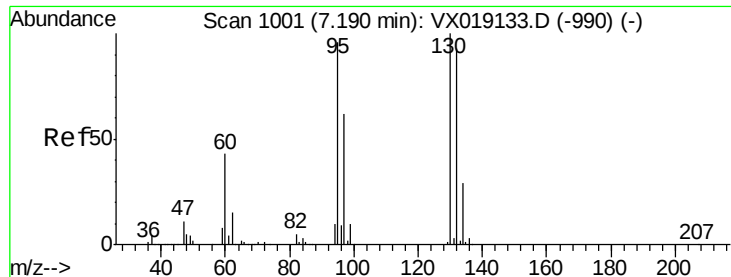
98 0.0 0.0 19.0



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#44

Trichloroethene

Concen: 27.176 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VX019345.D

Acq: 06 Nov 2020 16:28

Instrument :

MSVOA_X

ClientSampleId :

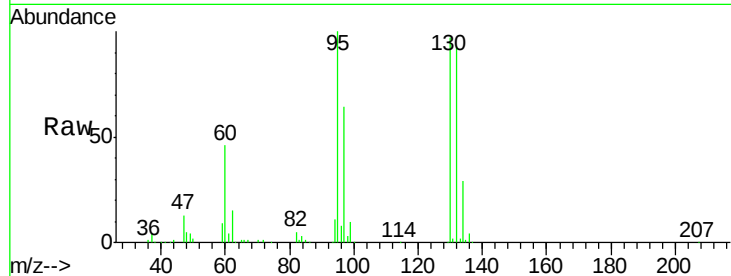
BP-VPB178-GW-378-380

Tot Ion:130 Resp: 106514

Ion Ratio Lower Upper

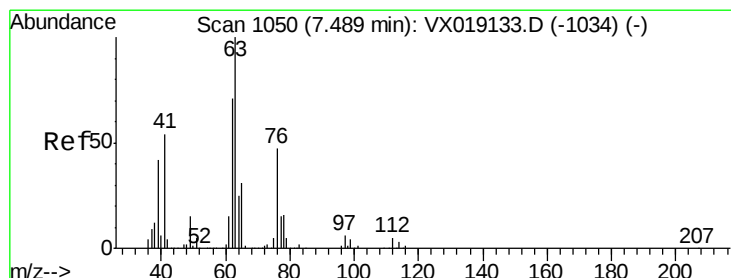
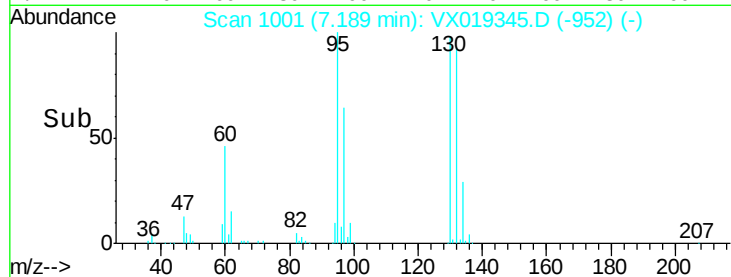
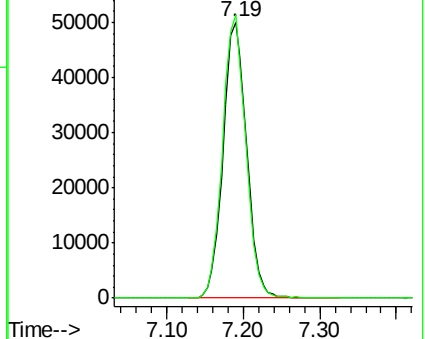
130 100

95 102.6 0.0 192.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#45

1,2-Dichloropropane

Concen: 10.099 ug/l

RT: 7.49 min Scan# 1051

Delta R.T. 0.01 min

Lab File: VX019345.D

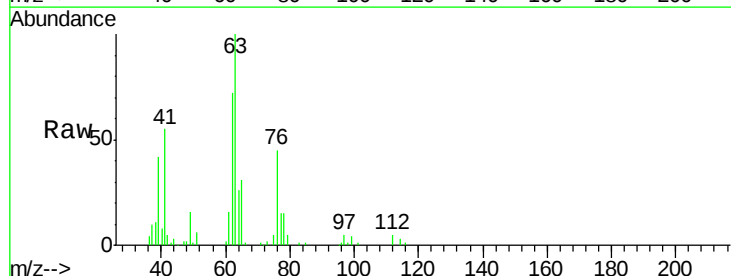
Acq: 06 Nov 2020 16:28

Tgt Ion: 63 Resp: 33852

Ion Ratio Lower Upper

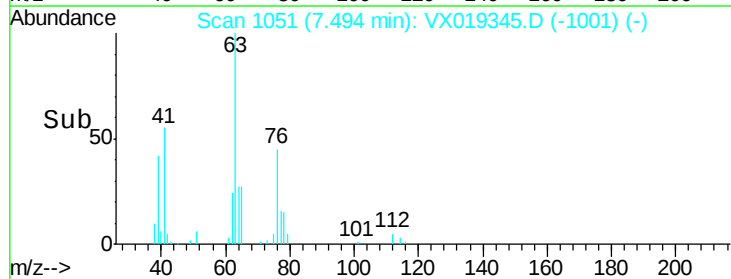
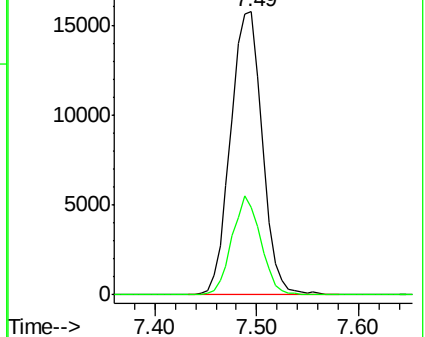
63 100

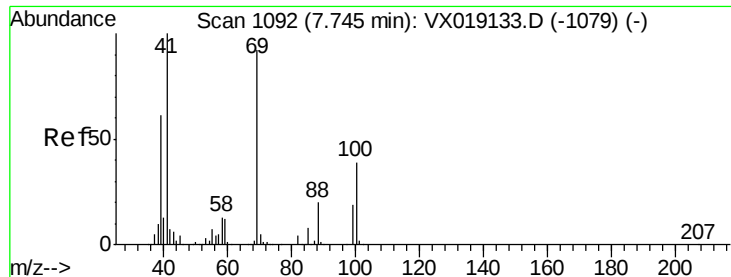
65 31.1 25.2 37.8



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 64.90 (64.60 to 65.60): VX0

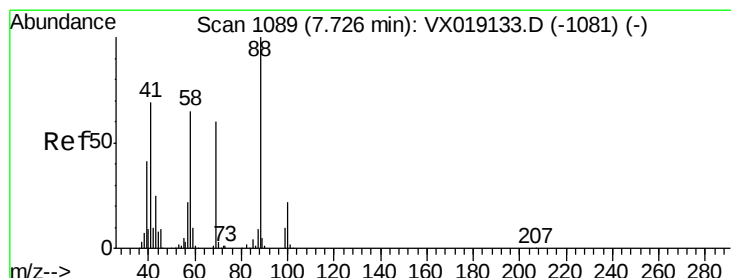
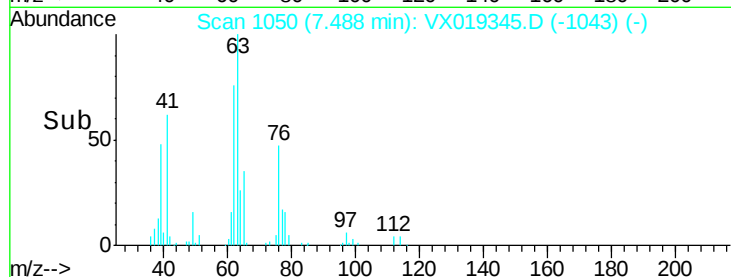
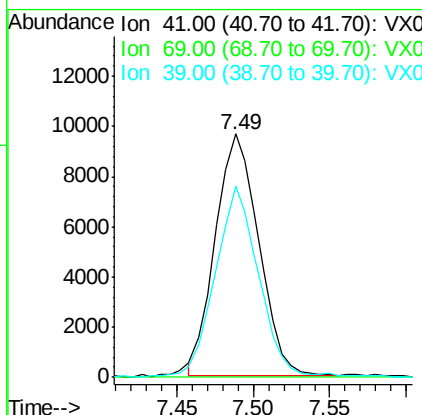
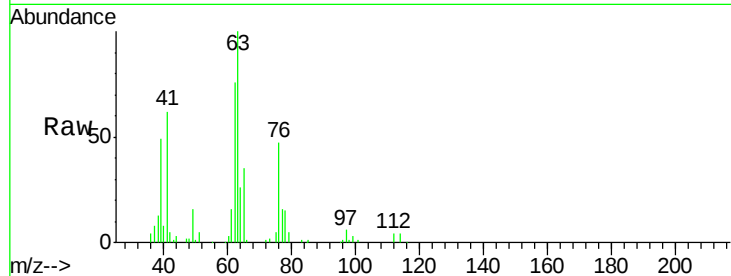




#48
Methvl methacrylate
Concen: 5.226 ug/l
RT: 7.49 min Scan# 1050
Delta R.T. -0.26 min
Lab File: VX019345.D
Acq: 06 Nov 2020 16:28

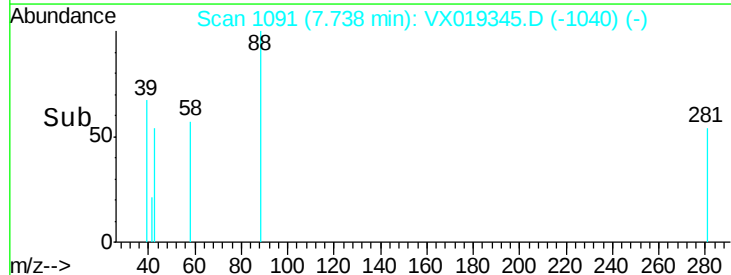
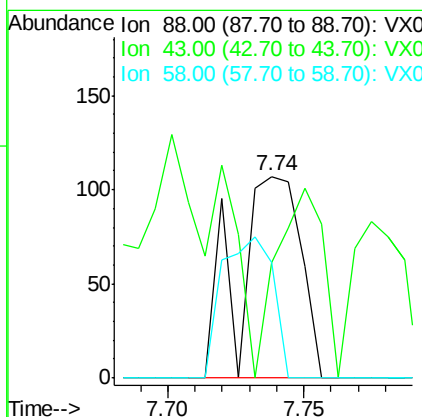
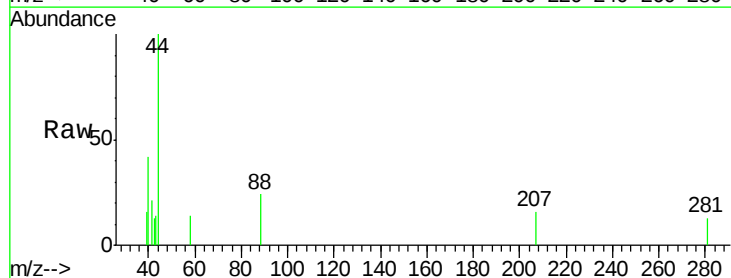
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB178-GW-378-380

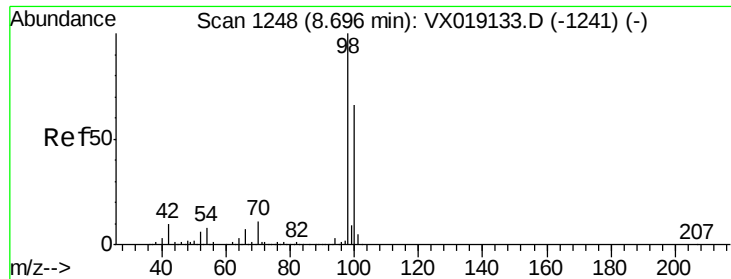
Tot Ion: 41 Resp: 18876
Ion Ratio Lower Upper
41 100
69 0.0 75.5 113.3#
39 75.9 48.9 73.3#



#49
1,4-Dioxane
Concen: 2.116 ug/l
RT: 7.74 min Scan# 1091
Delta R.T. 0.01 min
Lab File: VX019345.D
Acq: 06 Nov 2020 16:28

Tgt Ion: 88 Resp: 170
Ion Ratio Lower Upper
88 100
43 70.0 23.0 34.6#
58 57.1 52.2 78.2





#50

Toluene-d8

Concen: 52.260 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019345.D

Acq: 06 Nov 2020 16:28

Instrument :

MSVOA_X

ClientSampleId :

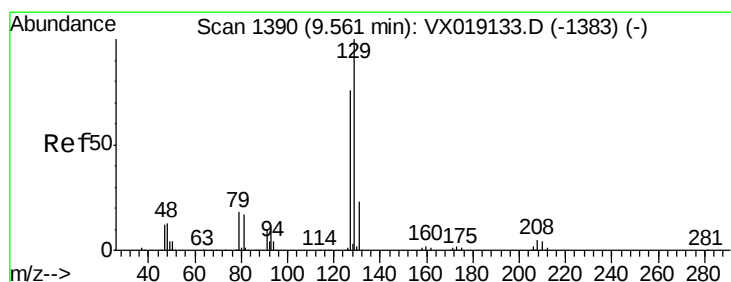
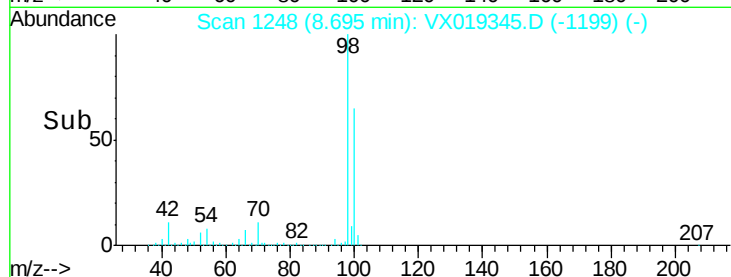
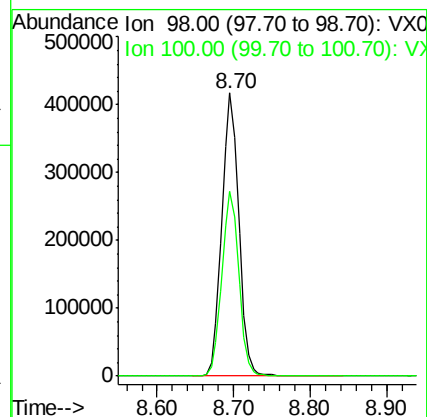
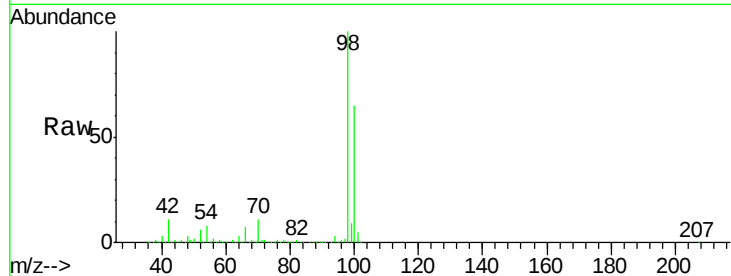
BP-VPB178-GW-378-380

Tot Ion: 98 Resp: 646820

Ion Ratio Lower Upper

98 100

100 65.2 53.0 79.6



#60

Dibromochloromethane

Concen: 3.179 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.24 min

Lab File: VX019345.D

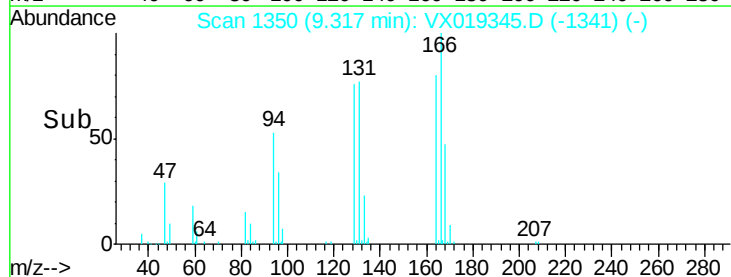
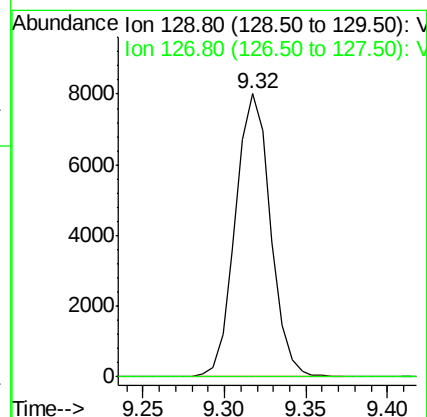
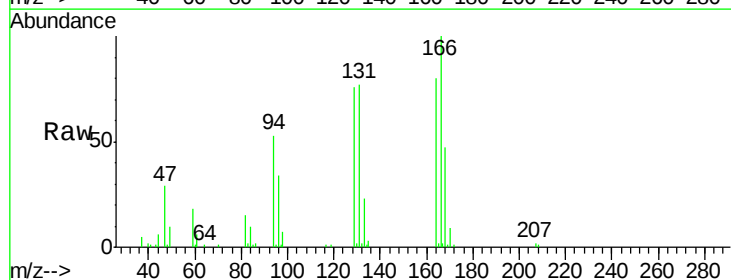
Acq: 06 Nov 2020 16:28

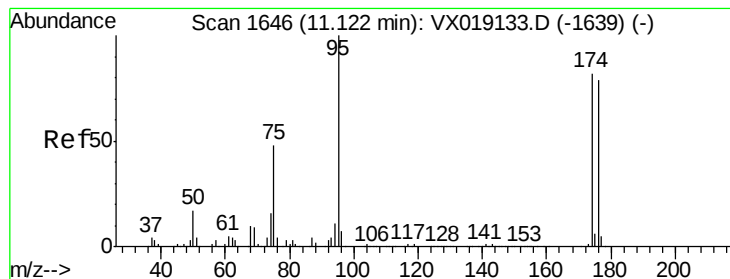
Tgt Ion: 129 Resp: 12016

Ion Ratio Lower Upper

129 100

127 0.0 38.6 115.8#





#62

4-Bromofluorobenzene

Concen: 53.019 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019345.D

Acq: 06 Nov 2020 16:28

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB178-GW-378-380

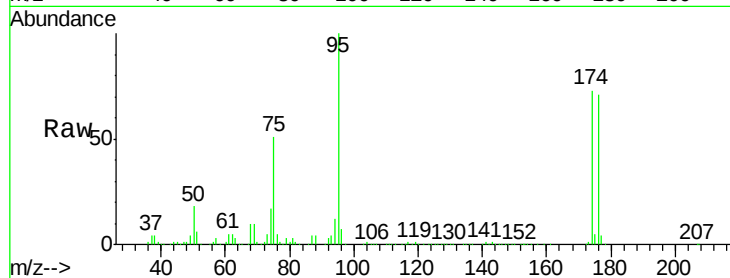
Tot Ion: 95 Resp: 248511

Ion Ratio Lower Upper

95 100

174 74.6 0.0 156.0

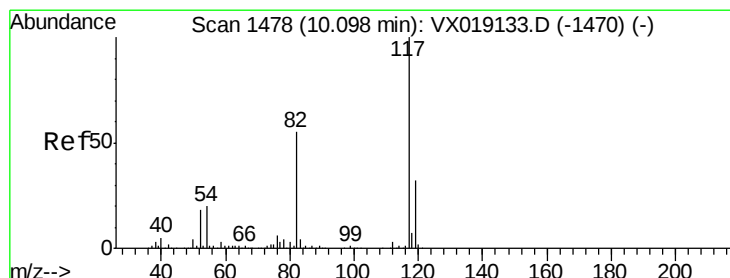
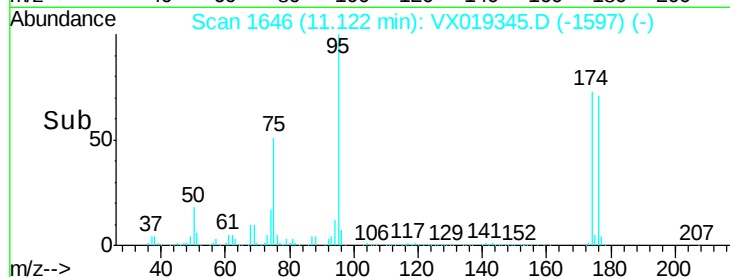
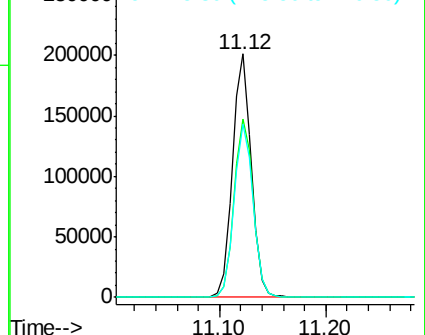
176 72.6 0.0 149.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX019345.D

Acq: 06 Nov 2020 16:28

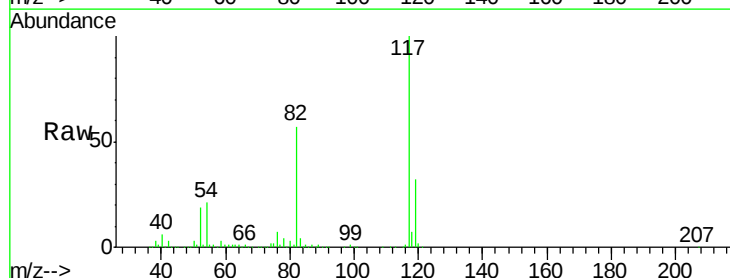
Tgt Ion: 117 Resp: 493985

Ion Ratio Lower Upper

117 100

82 57.4 43.6 65.4

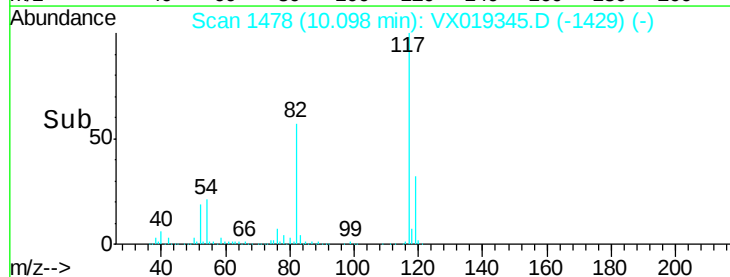
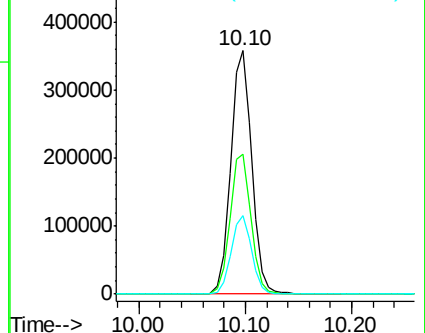
119 32.5 25.5 38.3

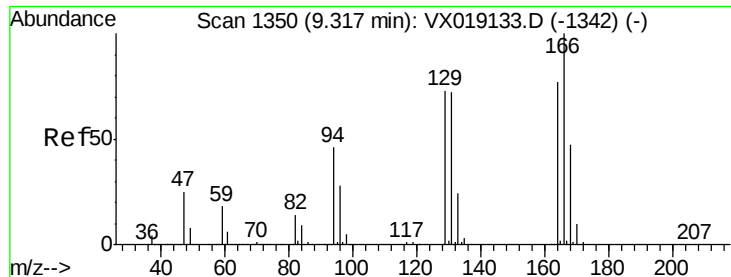


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 3.192 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.00 min

Lab File: VX019345.D

Acq: 06 Nov 2020 16:28

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB178-GW-378-380

Tot Ion:164 Resp: 12014

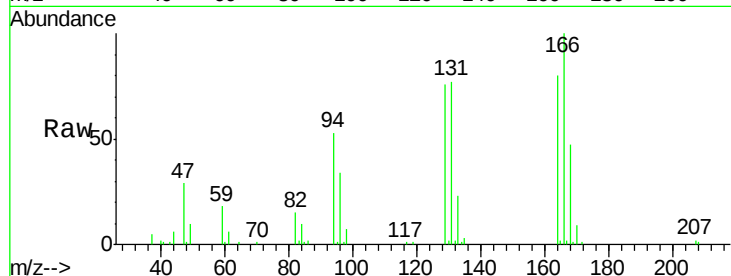
Ion Ratio Lower Upper

164 100

166 125.6 104.1 156.1

129 95.1 76.2 114.4

131 96.2 74.6 112.0

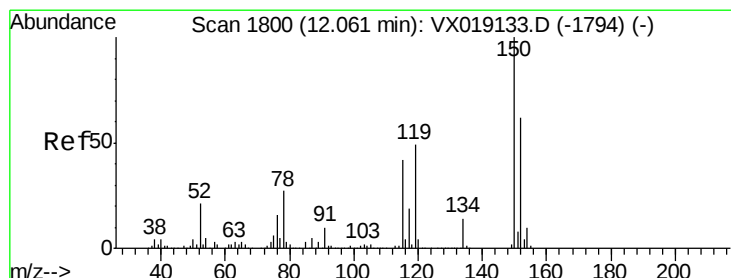
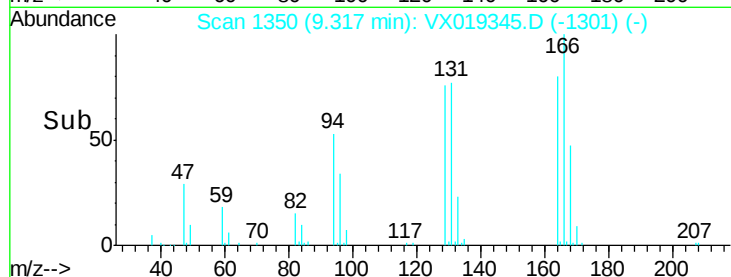
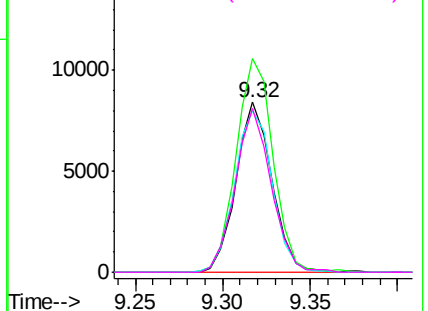


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): 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: VX019345.D

Acq: 06 Nov 2020 16:28

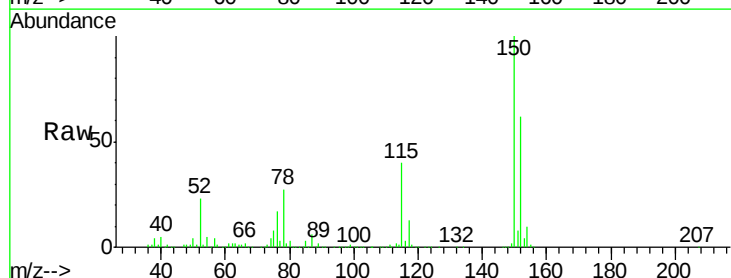
Tgt Ion:152 Resp: 249046

Ion Ratio Lower Upper

152 100

115 61.5 41.9 125.7

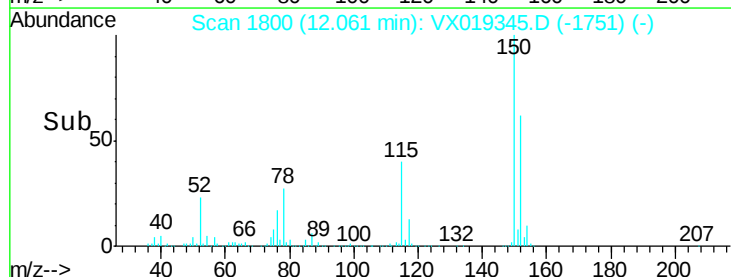
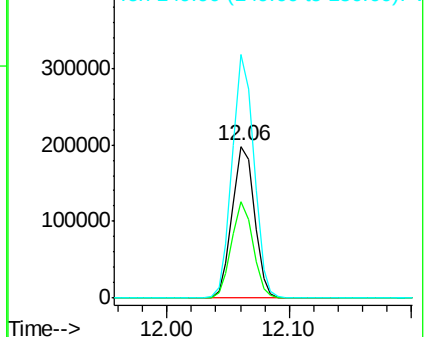
150 157.0 0.0 347.8

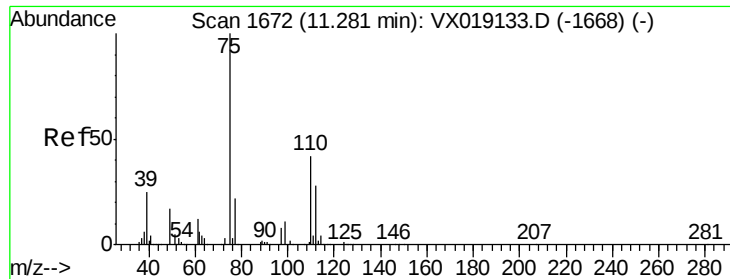


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

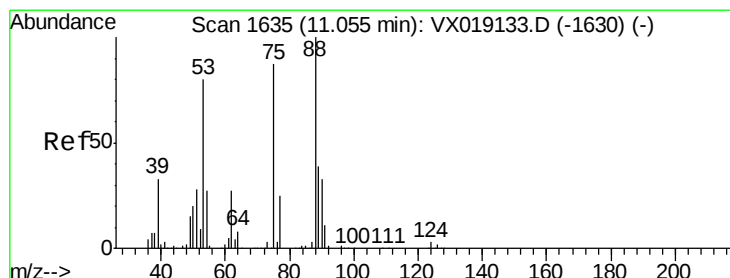
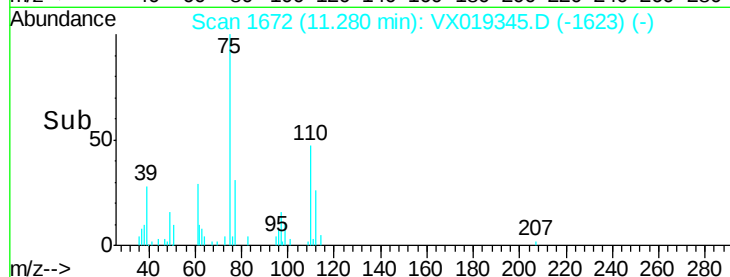
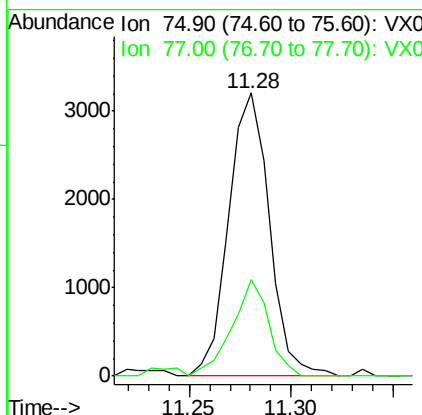
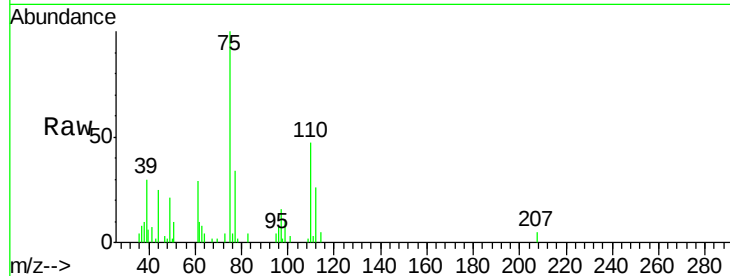




#76
 1,2,3-Trichloropropane
 Concen: 0.863 ug/l
 RT: 11.28 min Scan# 1672
 Delta R.T. -0.00 min
 Lab File: VX019345.D
 Acq: 06 Nov 2020 16:28

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB178-GW-378-380

Tot Ion: 75 Resp: 4437
 Ion Ratio Lower Upper
 75 100
 77 30.8 20.3 60.9



#81
 trans-1,4-Dichloro-2-butene
 Concen: 65.412 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.07 min
 Lab File: VX019345.D
 Acq: 06 Nov 2020 16:28

Tgt Ion: 75 Resp: 127751
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.3 109.9#
 89 0.0 38.2 57.2#

