

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX102820\
 Data File : VX019160.D
 Acq On : 28 Oct 2020 13:09
 Operator : JC/MD
 Sample : L4470-03DL 4X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-TT-MW179D2-GW-20201016DL

Quant Time: Oct 29 02:07:12 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	319305	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	552914	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	514062	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	255862	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	209752	50.94	ug/l	0.00
Spiked Amount			Recovery	=	101.88%	
35) Dibromofluoromethane	5.46	113	171507	49.38	ug/l	0.00
Spiked Amount			Recovery	=	98.76%	
50) Toluene-d8	8.70	98	673688	51.46	ug/l	0.00
Spiked Amount			Recovery	=	102.92%	
62) 4-Bromofluorobenzene	11.12	95	254649	51.36	ug/l	0.00
Spiked Amount			Recovery	=	102.72%	

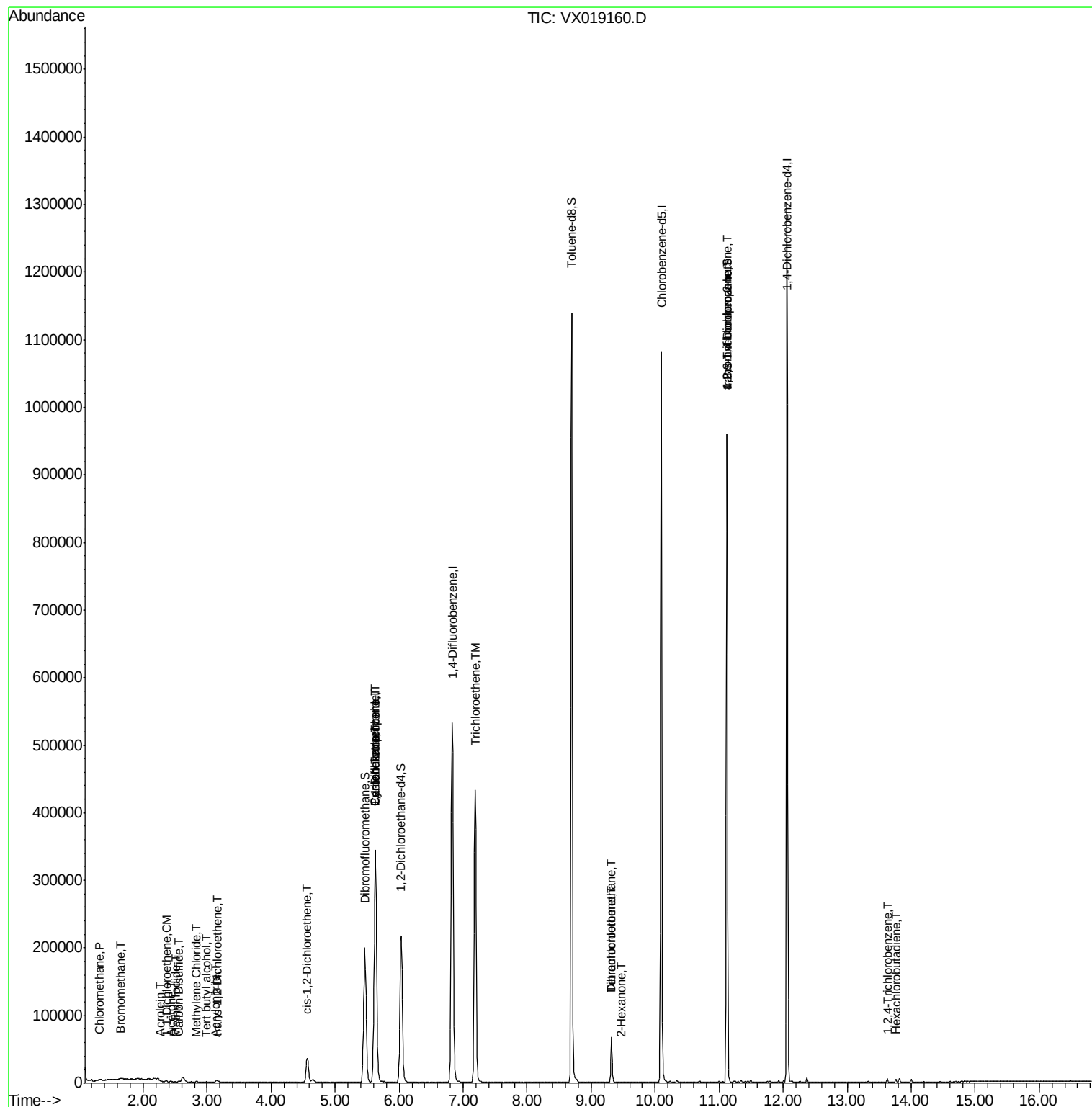
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	739	0.248	ug/l	98
5) Bromomethane	1.64	94	481	0.204	ug/l	95
10) Methyl Iodide	2.50	142	695	6.550	ug/l #	86
11) Tert butyl alcohol	3.00	59	718	0.883	ug/l #	72
12) 1,1-Dichloroethene	2.36	96	732	0.237	ug/l	93
13) Acrolein	2.28	56	146	6.040	ug/l #	16
15) Acrylonitrile	3.12	53	575	0.336	ug/l #	88
16) Acetone	2.43	43	1867	1.314	ug/l	99
17) Carbon Disulfide	2.55	76	2229	1.009	ug/l #	83
20) Methylene Chloride	2.84	84	834	0.234	ug/l #	78
21) trans-1,2-Dichloroethene	3.15	96	748	0.210	ug/l	96
27) cis-1,2-Dichloroethene	4.57	96	23858	5.994	ug/l	90
31) Cyclohexane	5.64	56	6986	1.342	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	25218	4.939	ug/l #	49
38) Carbon Tetrachloride	5.63	117	32949	6.331	ug/l #	17
44) Trichloroethene	7.19	130	169817	40.960	ug/l	95
59) 2-Hexanone	9.48	43	775	0.223	ug/l #	49
60) Dibromochloromethane	9.32	129	11921	2.982	ug/l #	11
64) Tetrachloroethene	9.32	164	12478	3.186	ug/l	95
76) 1,2,3-Trichloropropane	11.12	75	129738	24.558	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	129738	64.660	ug/l #	12
93) 1,2,4-Trichlorobenzene	13.63	180	1512	0.250	ug/l	95
94) Hexachlorobutadiene	13.76	225	663	0.249	ug/l	97

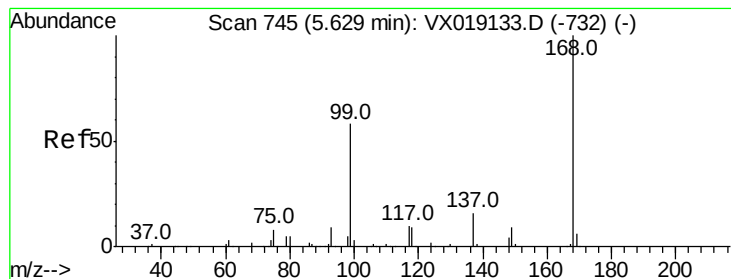
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Oct 29 02:07:12 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# 745

Delta R.T. -0.00 min

Lab File: VX019160.D

Acq: 28 Oct 2020 13:09

Instrument :

MSVOA_X

ClientSampleId :

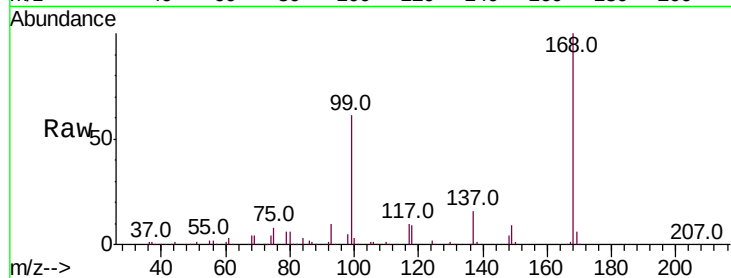
BP-TT-MW179D2-GW-20201016DL

Tot Ion:168 Resp: 319305

Ion Ratio Lower Upper

168 100

99 60.6 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

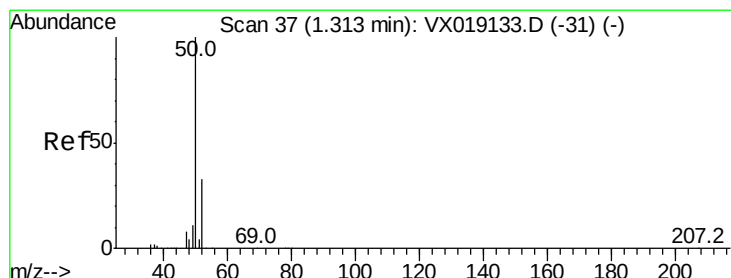
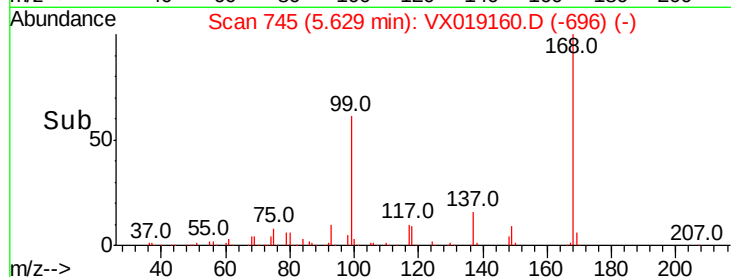
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.248 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX019160.D

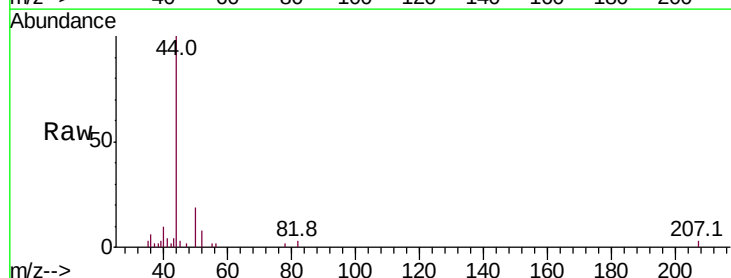
Acq: 28 Oct 2020 13:09

Tgt Ion: 50 Resp: 739

Ion Ratio Lower Upper

50 100

52 34.8 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

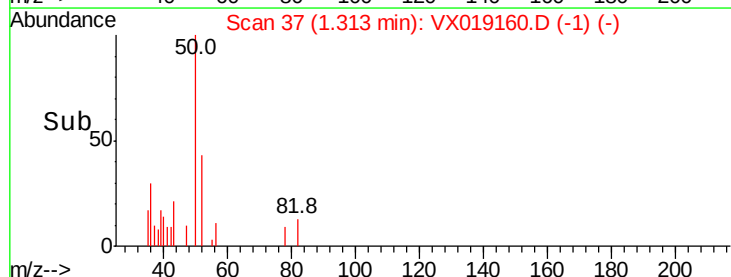
400

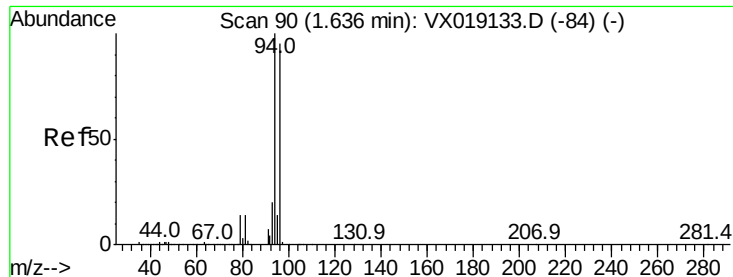
200

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: 0.204 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.01 min

Lab File: VX019160.D

Acq: 28 Oct 2020 13:09

Instrument :

MSVOA_X

ClientSampleId :

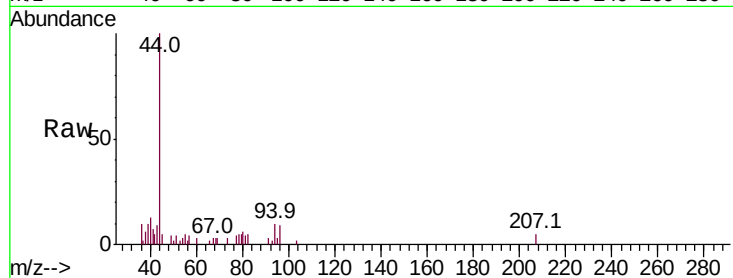
BP-TT-MW179D2-GW-20201016DL

Tot Ion: 94 Resp: 481

Ion Ratio Lower Upper

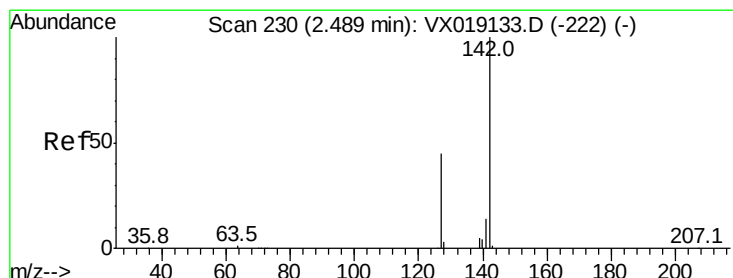
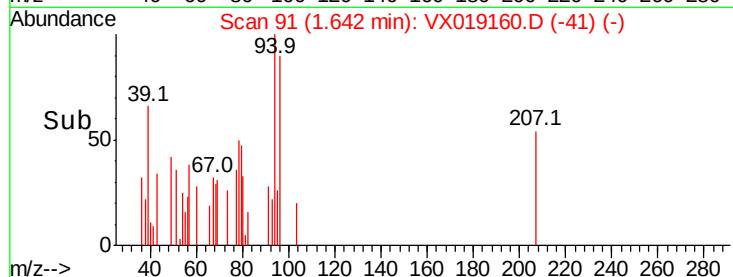
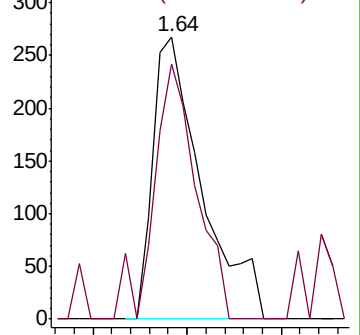
94 100

96 90.3 76.0 114.0



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#10

Methyl Iodide

Concen: 6.550 ug/l

RT: 2.50 min Scan# 232

Delta R.T. 0.01 min

Lab File: VX019160.D

Acq: 28 Oct 2020 13:09

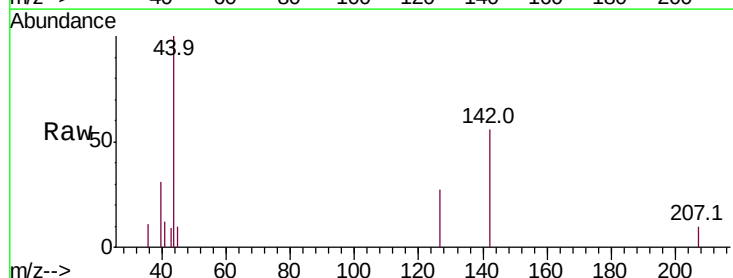
Tgt Ion: 142 Resp: 695

Ion Ratio Lower Upper

142 100

127 51.2 36.1 54.1

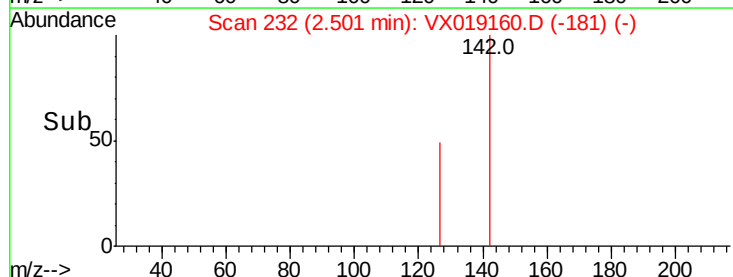
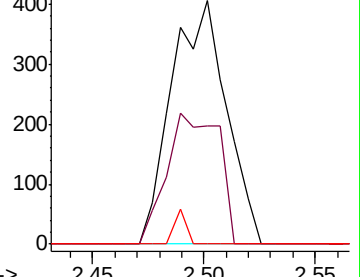
141 3.2 11.3 16.9#

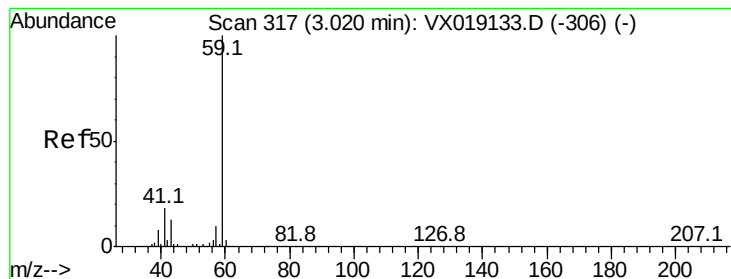


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



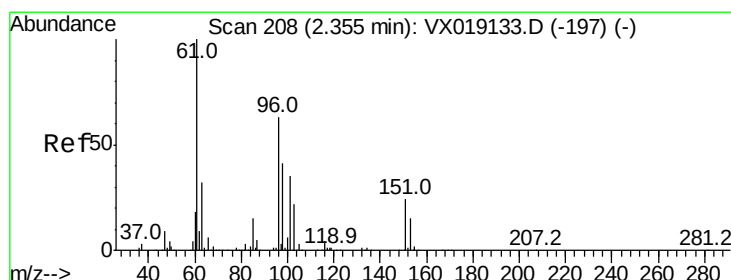
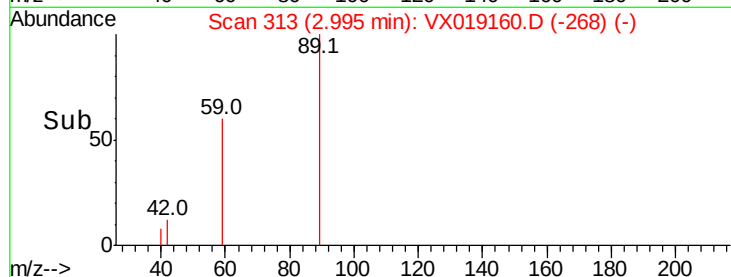
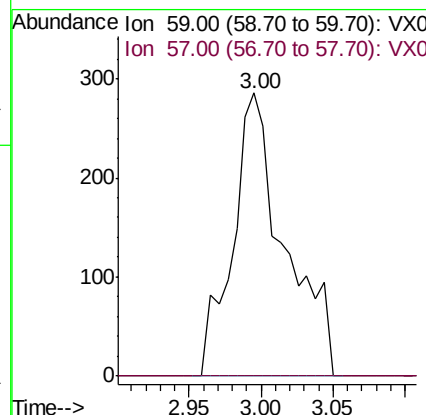
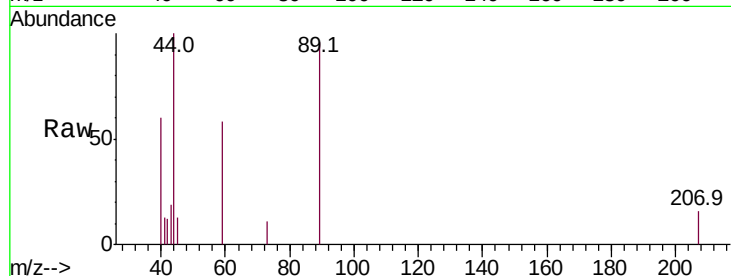


#11

Tert butyl alcohol
Concen: 0.883 ug/l
RT: 3.00 min Scan# 313
Delta R.T. -0.02 min
Lab File: VX019160.D
Acq: 28 Oct 2020 13:09

Instrument :
MSVOA_X
ClientSampleId :
BP-TT-MW179D2-GW-20201016DL

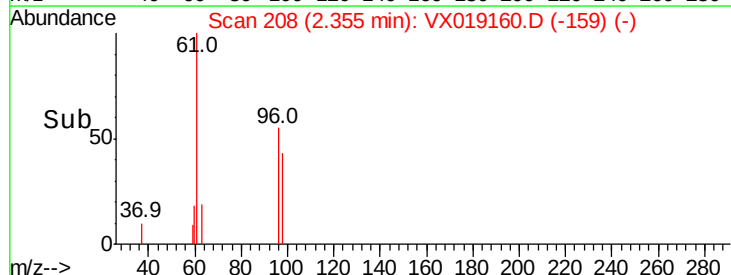
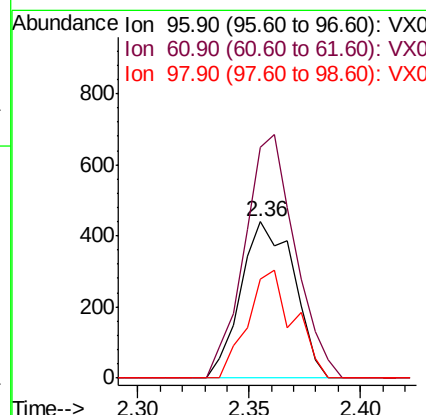
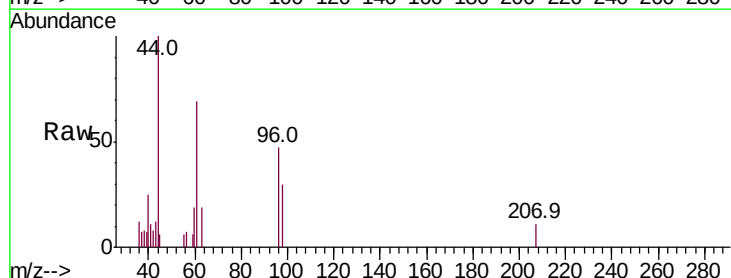
Tot Ion: 59 Resp: 718
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#

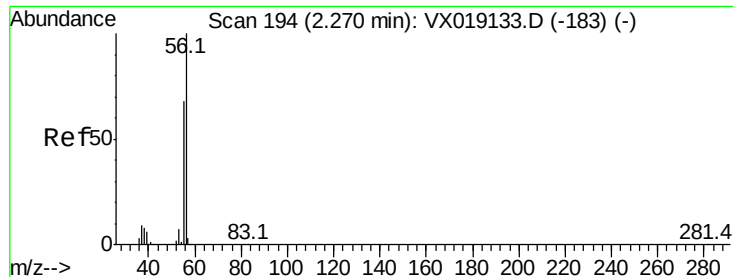


#12

1,1-Dichloroethene
Concen: 0.237 ug/l
RT: 2.36 min Scan# 208
Delta R.T. -0.00 min
Lab File: VX019160.D
Acq: 28 Oct 2020 13:09

Tgt Ion: 96 Resp: 732
Ion Ratio Lower Upper
96 100
61 147.8 127.7 191.5
98 63.6 52.1 78.1





#13

Acrolein

Concen: 6.040 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX019160.D

Acq: 28 Oct 2020 13:09

Instrument :

MSVOA_X

ClientSampleId :

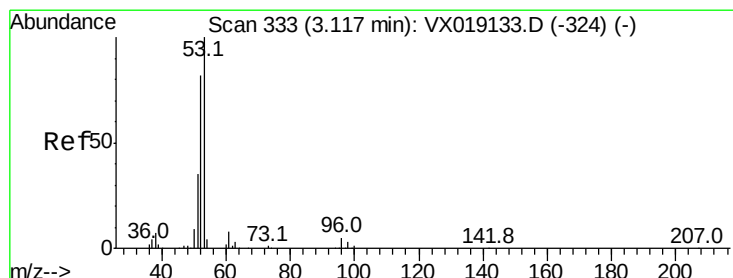
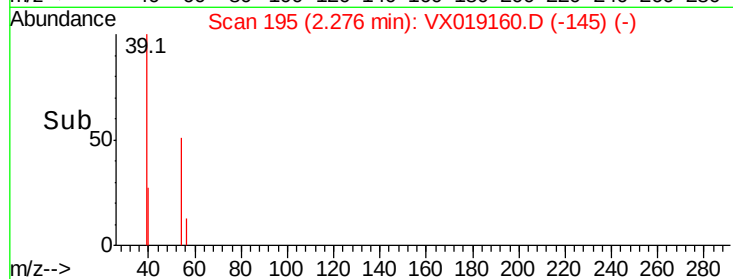
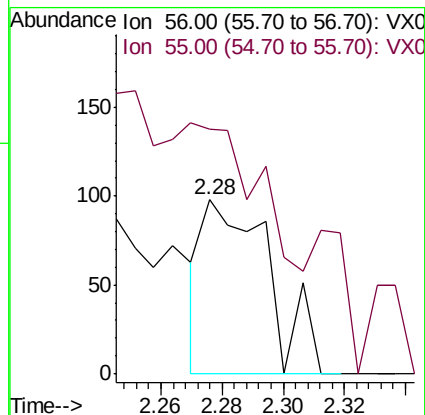
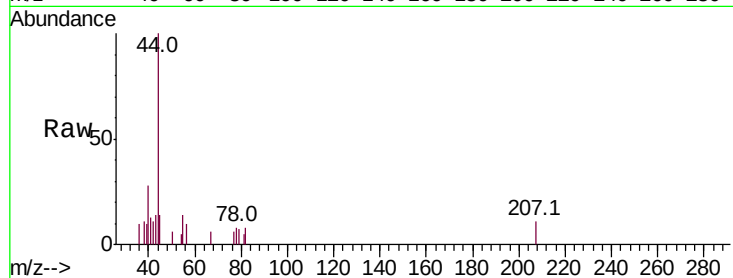
BP-TT-MW179D2-GW-20201016DL

Tot Ion: 56 Resp: 146

Ion Ratio Lower Upper

56 100

55 0.0 54.7 82.1#



#15

Acrylonitrile

Concen: 0.336 ug/l

RT: 3.12 min Scan# 334

Delta R.T. 0.01 min

Lab File: VX019160.D

Acq: 28 Oct 2020 13:09

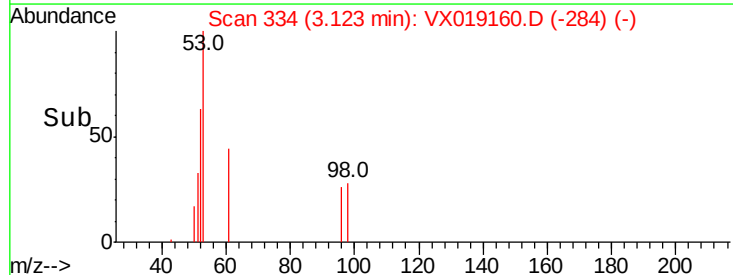
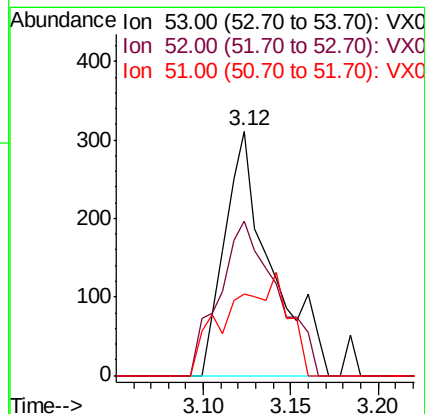
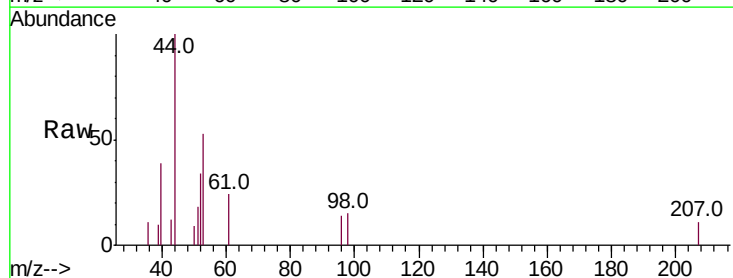
Tgt Ion: 53 Resp: 575

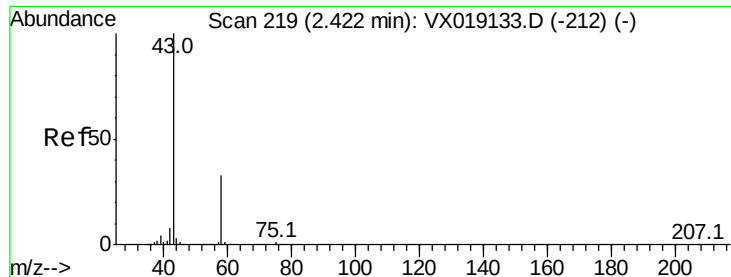
Ion Ratio Lower Upper

53 100

52 79.1 65.7 98.5

51 54.6 28.4 42.6#





#16

Acetone

Concen: 1.314 ug/l

RT: 2.43 min Scan# 221

Delta R.T. 0.01 min

Lab File: VX019160.D

Acq: 28 Oct 2020 13:09

Instrument :

MSVOA_X

ClientSampleId :

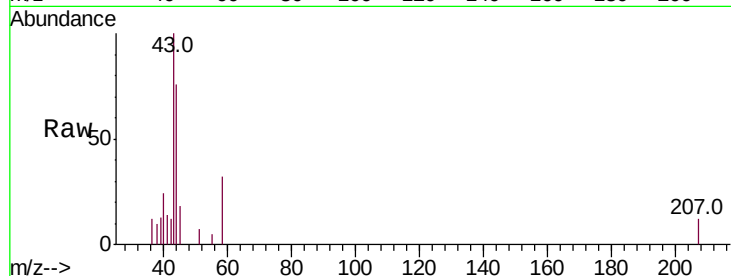
BP-TT-MW179D2-GW-20201016DL

Tot Ion: 43 Resp: 1867

Ion Ratio Lower Upper

43 100

58 33.6 26.3 39.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.43

1000

800

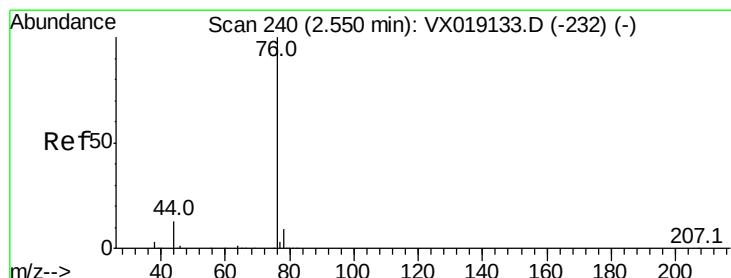
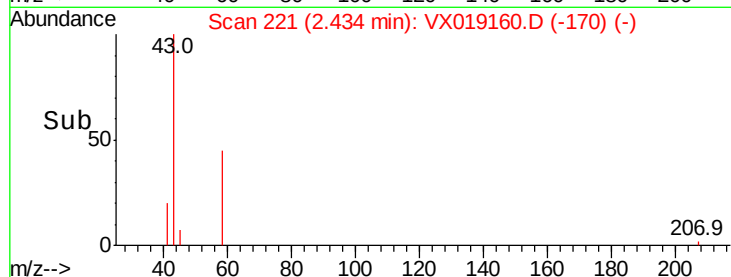
600

400

200

0

Time--> 2.35 2.40 2.45 2.50



#17

Carbon Disulfide

Concen: 1.009 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX019160.D

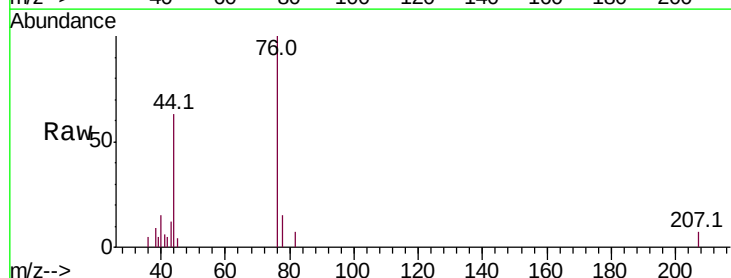
Acq: 28 Oct 2020 13:09

Tgt Ion: 76 Resp: 2229

Ion Ratio Lower Upper

76 100

78 15.4 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

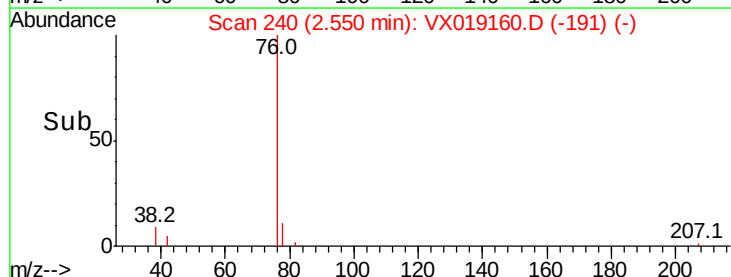
1500

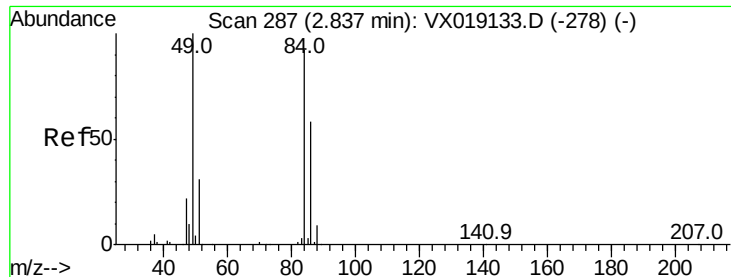
1000

500

0

Time--> 2.50 2.55 2.60





#20

Methylene Chloride

Concen: 0.234 ug/l

RT: 2.84 min Scan# 287

Delta R.T. -0.00 min

Lab File: VX019160.D

Acq: 28 Oct 2020 13:09

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-MW179D2-GW-20201016DL

Tot Ion: 84 Resp: 834

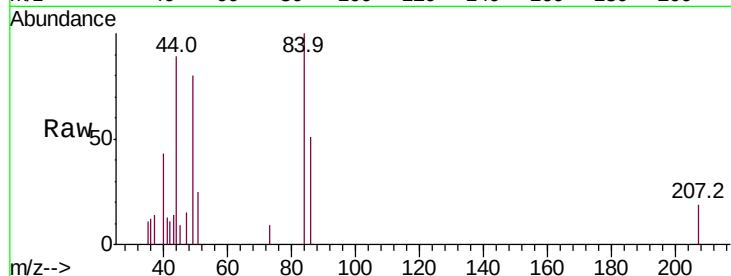
Ion Ratio Lower Upper

84 100

49 80.0 86.8 130.2#

51 24.8 27.3 40.9#

86 51.1 50.6 76.0

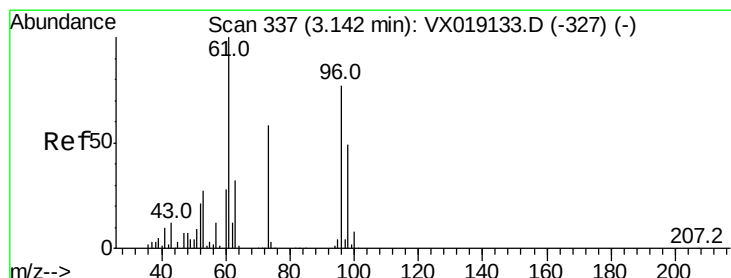
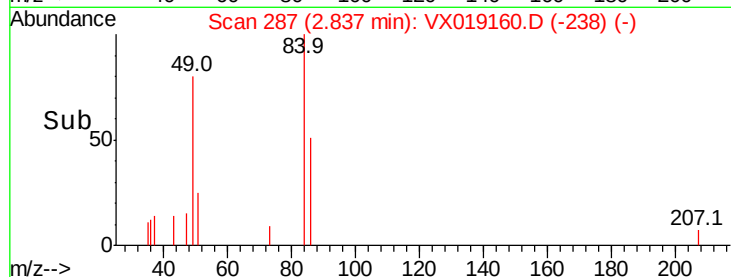
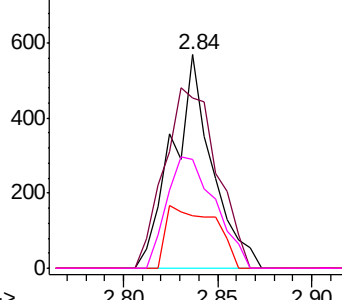


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#21

trans-1,2-Dichloroethene

Concen: 0.210 ug/l

RT: 3.15 min Scan# 338

Delta R.T. 0.01 min

Lab File: VX019160.D

Acq: 28 Oct 2020 13:09

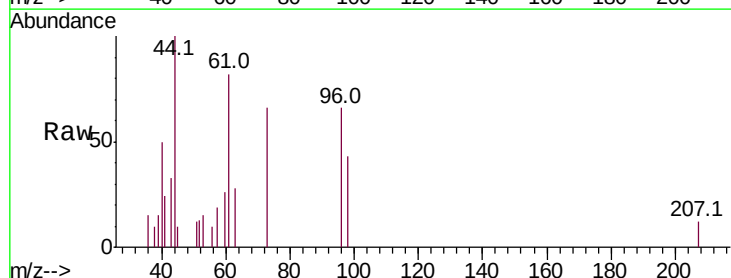
Tgt Ion: 96 Resp: 748

Ion Ratio Lower Upper

96 100

61 124.2 104.2 156.4

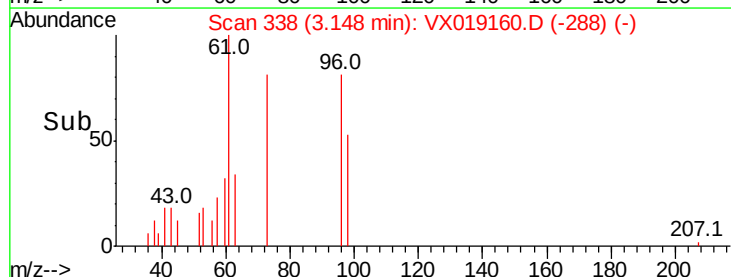
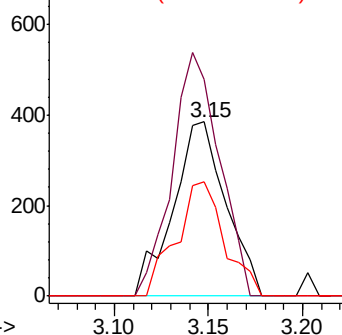
98 65.7 51.3 76.9

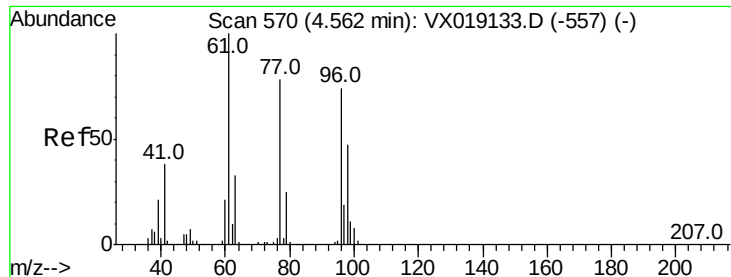


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



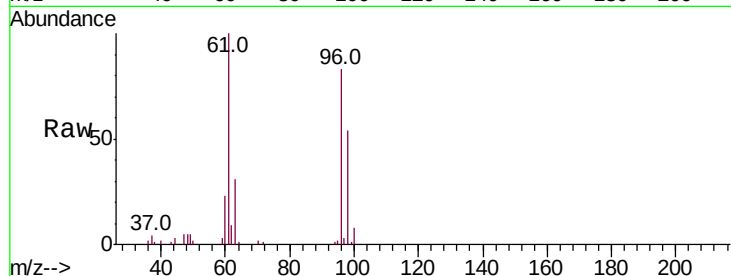


#27

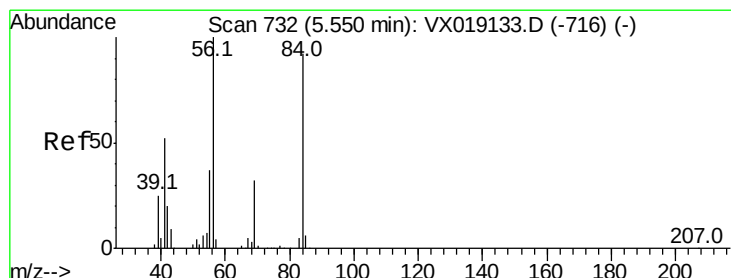
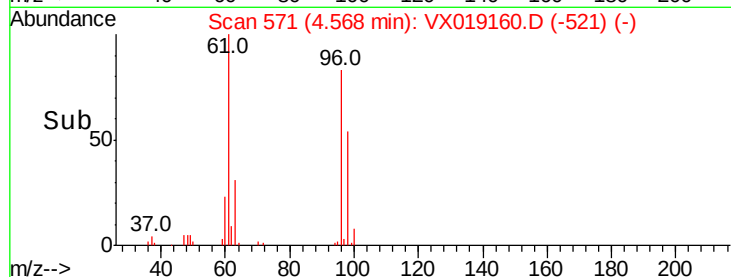
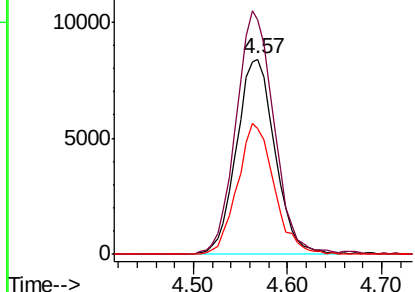
cis-1,2-Dichloroethene
Concen: 5.994 ug/l
RT: 4.57 min Scan# 571
Delta R.T. 0.01 min
Lab File: VX019160.D
Acq: 28 Oct 2020 13:09

Instrument :
MSVOA_X
ClientSampleId :
BP-TT-MW179D2-GW-20201016DL

Tot Ion	Ratio	Lower	Upper
96	100		
61	123.0	0.0	278.8
98	63.9	0.0	130.2



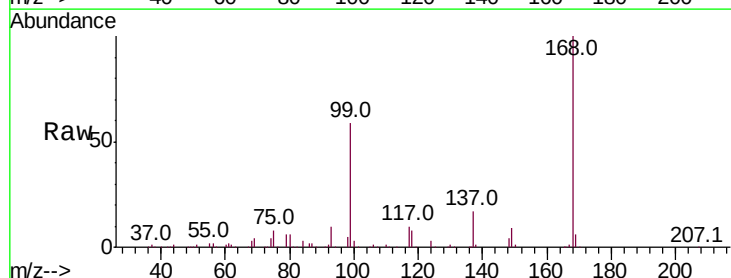
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



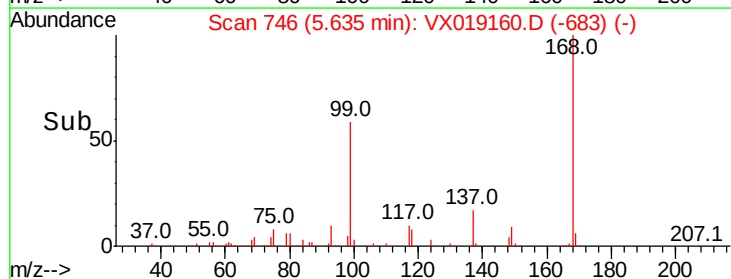
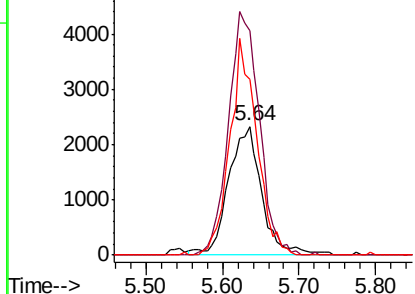
#31

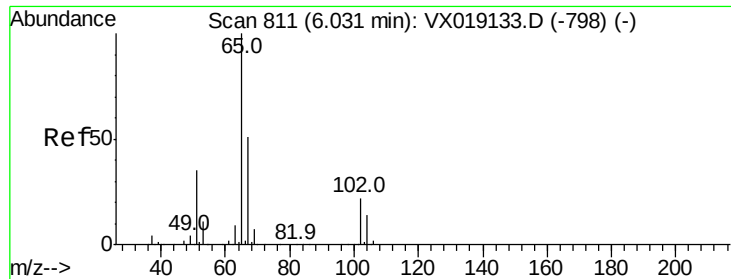
Cyclohexane
Concen: 1.342 ug/l
RT: 5.64 min Scan# 746
Delta R.T. 0.09 min
Lab File: VX019160.D
Acq: 28 Oct 2020 13:09

Tgt Ion	Ratio	Lower	Upper
56	100		
69	174.6	25.9	38.9#
84	136.5	73.4	110.2#



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

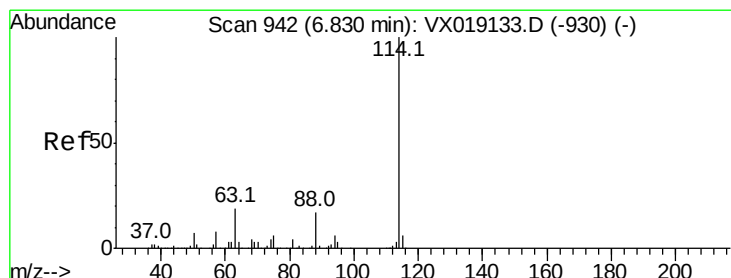
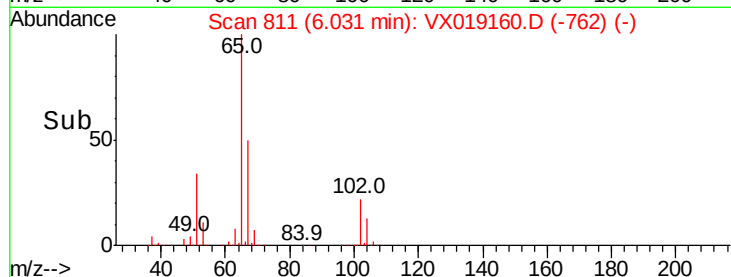
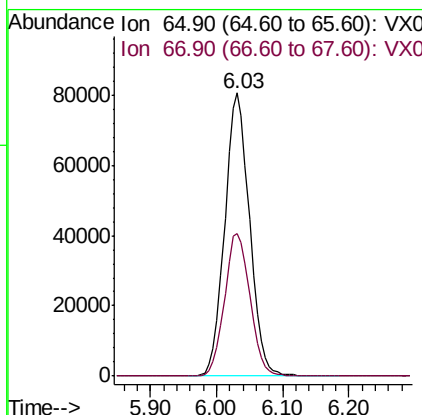
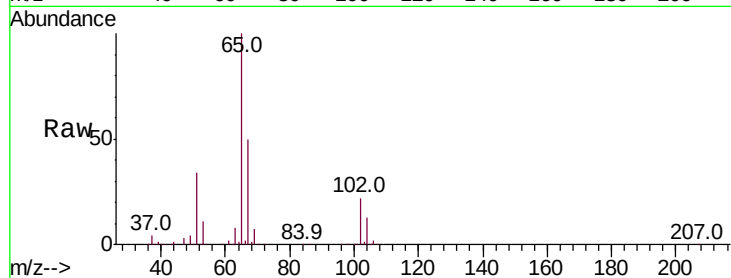




#33
 1,2-Dichloroethane-d4
 Concen: 50.938 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: VX019160.D
 Acq: 28 Oct 2020 13:09

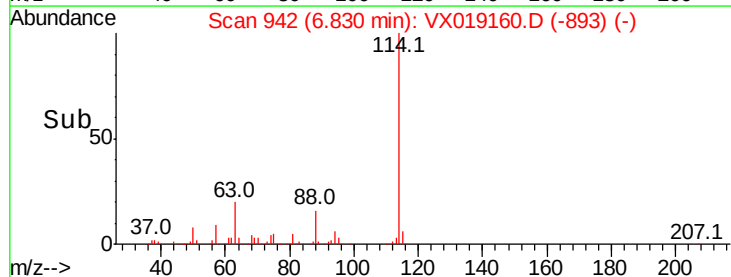
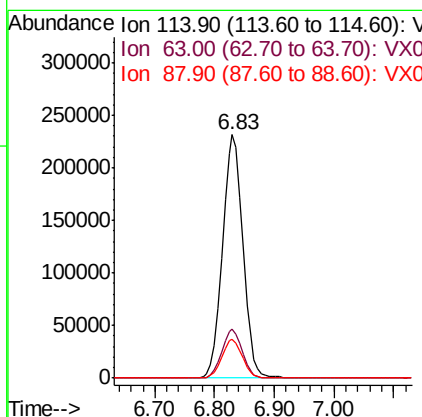
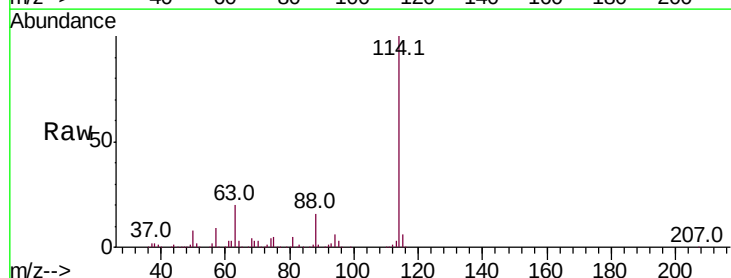
Instrument :
 MSVOA_X
 ClientSampleId :
 BP-TT-MW179D2-GW-20201016DL

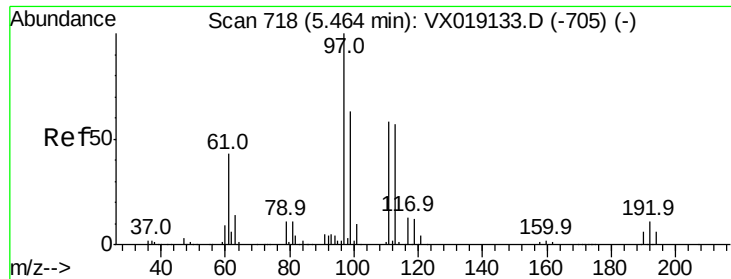
Tot Ion: 65 Resp: 209752
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: VX019160.D
 Acq: 28 Oct 2020 13:09

Tgt Ion: 114 Resp: 552914
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 38.8
 88 16.1 0.0 34.2

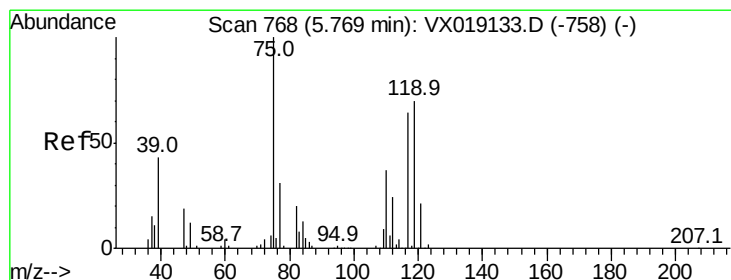
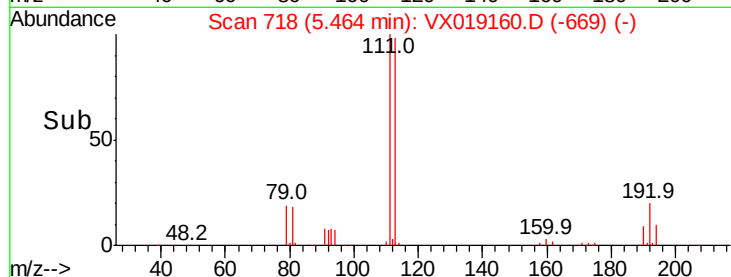
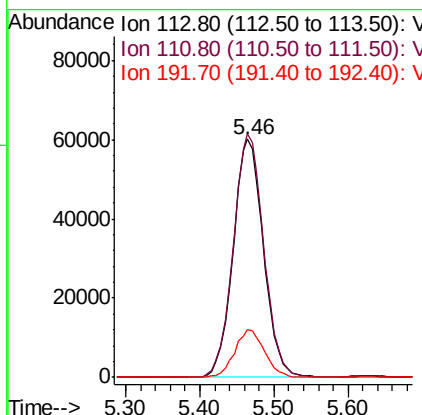
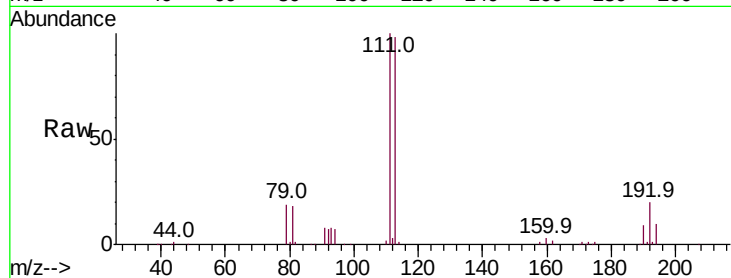




#35
 Dibromofluoromethane
 Concen: 49.382 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. -0.00 min
 Lab File: VX019160.D
 Acq: 28 Oct 2020 13:09

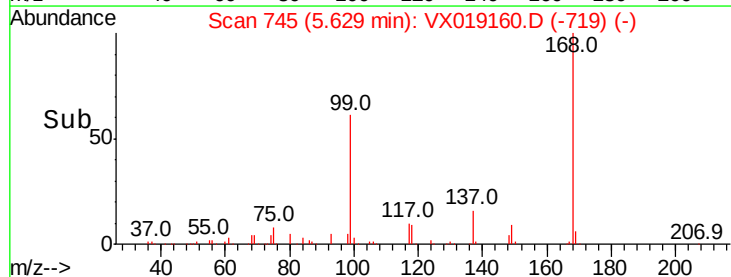
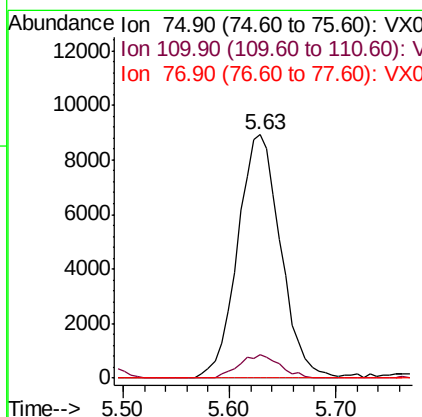
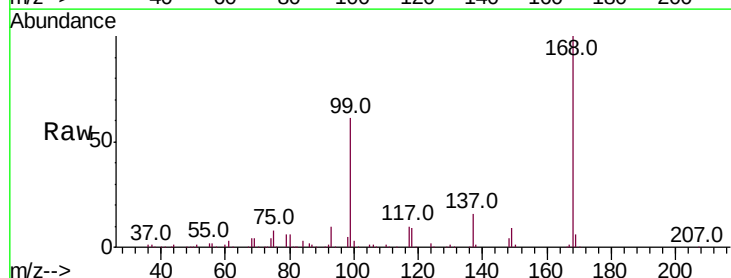
Instrument :
 MSVOA_X
 ClientSampleId :
 BP-TT-MW179D2-GW-20201016DL

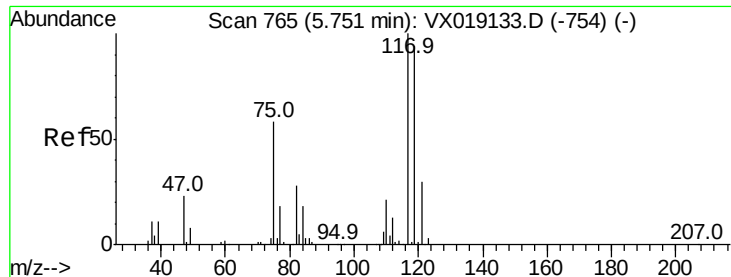
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.3	123.5
192	19.8	16.2	24.2



#36
 1,1-Dichloropropene
 Concen: 4.939 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX019160.D
 Acq: 28 Oct 2020 13:09

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.2	18.3	54.9#
77	0.0	24.9	37.3#





#38

Carbon Tetrachloride

Concen: 6.331 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019160.D

Acq: 28 Oct 2020 13:09

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-MW179D2-GW-20201016DL

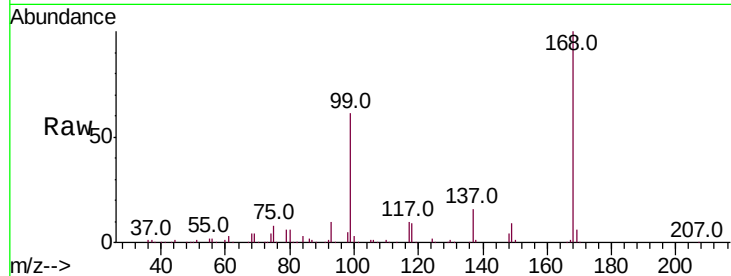
Tot Ion:117 Resp: 32949

Ion Ratio Lower Upper

117 100

119 4.6 75.0 112.6#

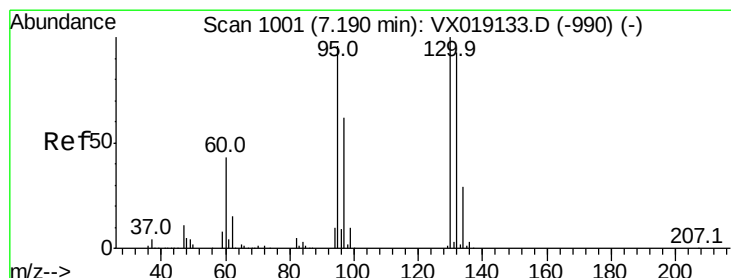
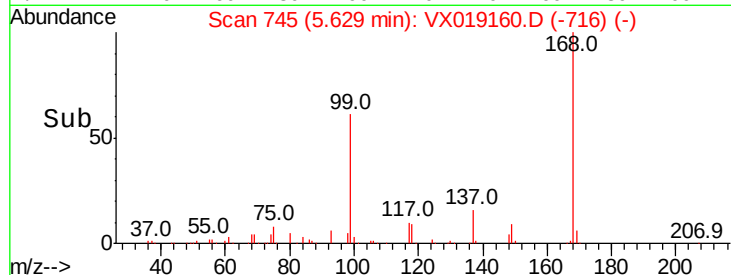
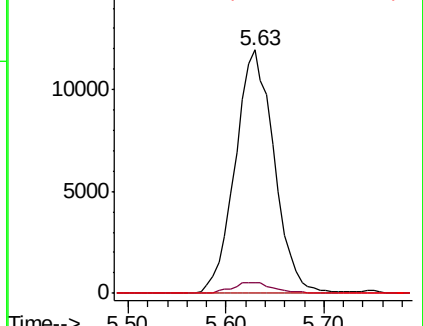
121 0.0 23.9 35.9#



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



#44

Trichloroethene

Concen: 40.960 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VX019160.D

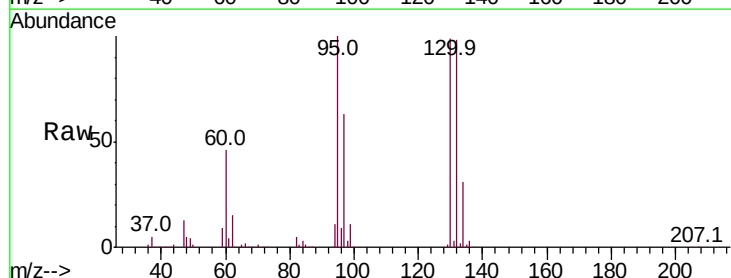
Acq: 28 Oct 2020 13:09

Tgt Ion:130 Resp: 169817

Ion Ratio Lower Upper

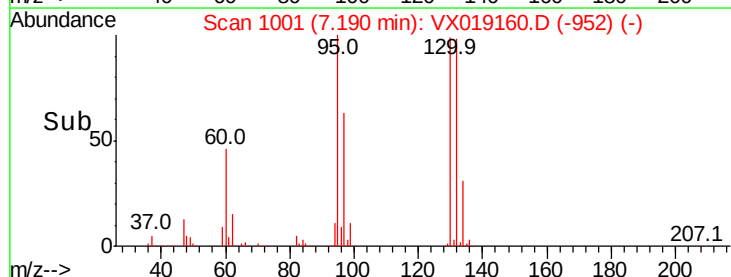
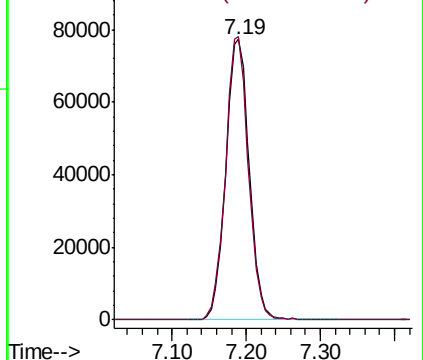
130 100

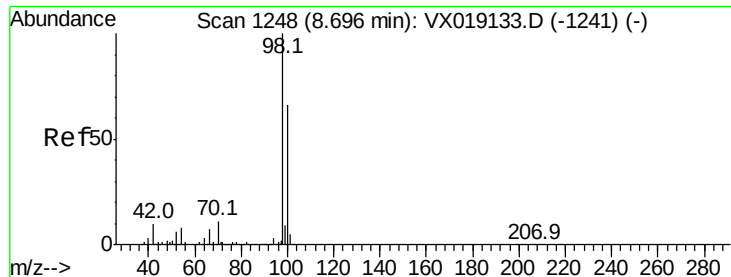
95 100.9 0.0 192.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

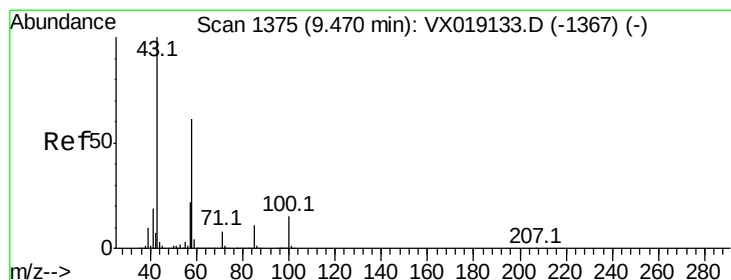
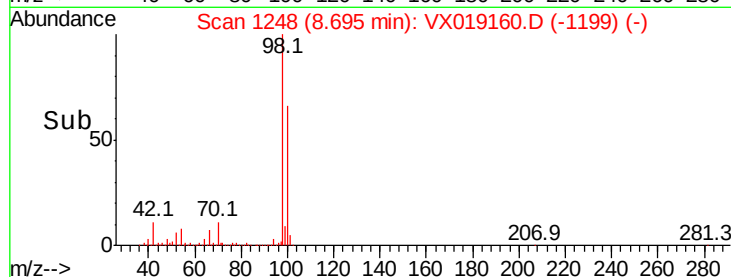
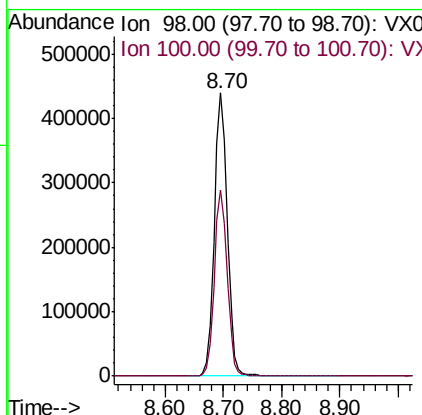
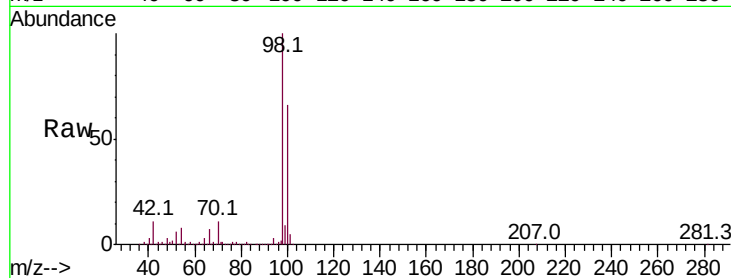




#50
Toluene-d8
Concen: 51.457 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX019160.D
Acq: 28 Oct 2020 13:09

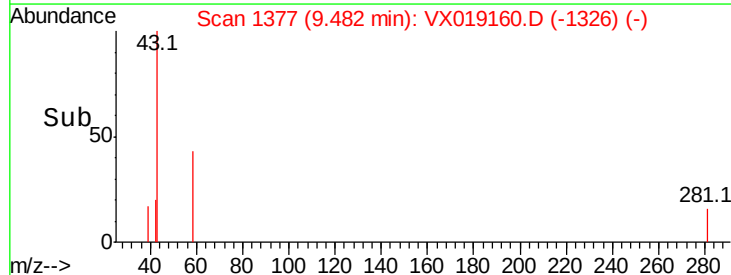
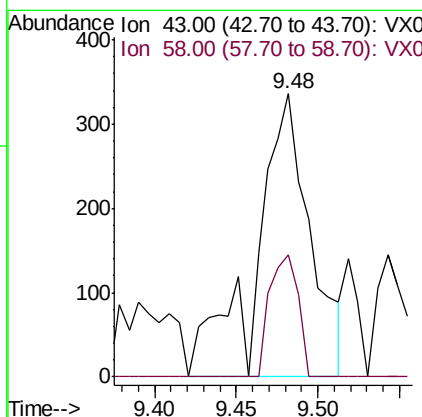
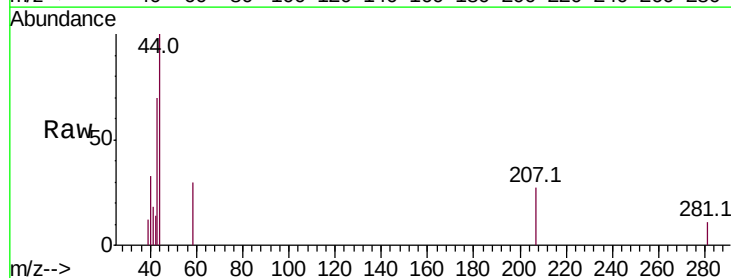
Instrument :
MSVOA_X
ClientSampleId :
BP-TT-MW179D2-GW-20201016DL

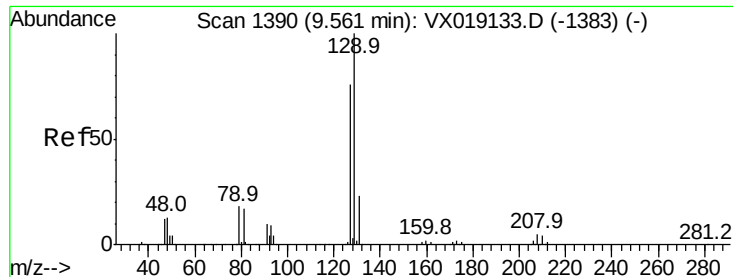
Tot Ion: 98 Resp: 673688
Ion Ratio Lower Upper
98 100
100 65.6 53.0 79.6



#59
2-Hexanone
Concen: 0.223 ug/l
RT: 9.48 min Scan# 1377
Delta R.T. 0.01 min
Lab File: VX019160.D
Acq: 28 Oct 2020 13:09

Tgt Ion: 43 Resp: 775
Ion Ratio Lower Upper
43 100
58 22.3 30.5 91.5#





#60

Dibromochloromethane

Concen: 2.982 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.24 min

Lab File: VX019160.D

Acq: 28 Oct 2020 13:09

Instrument :

MSVOA_X

ClientSampleId :

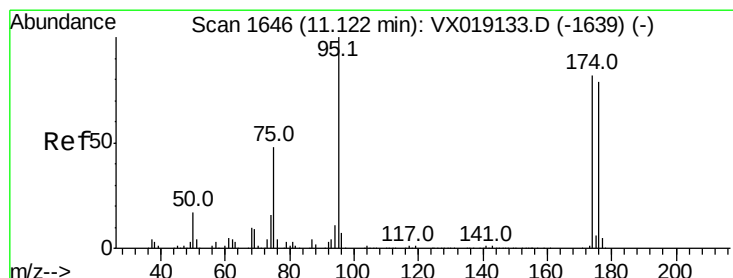
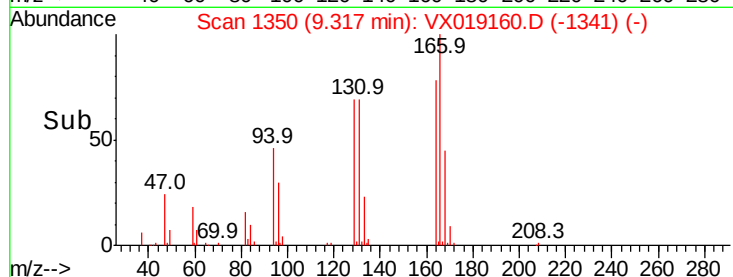
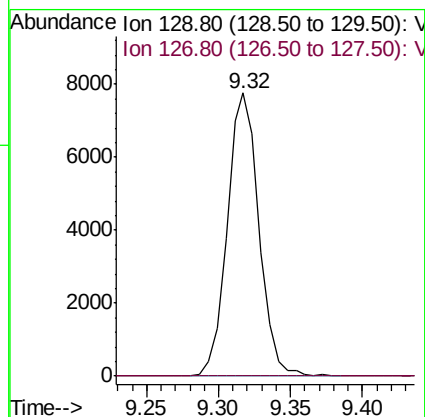
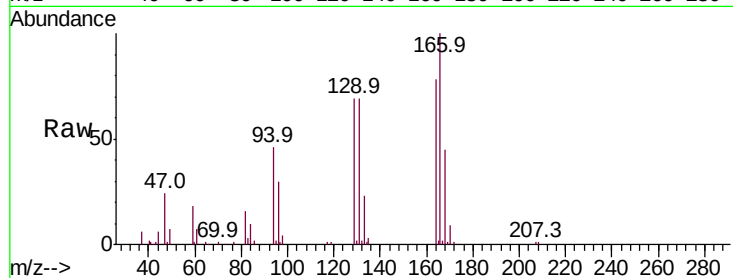
BP-TT-MW179D2-GW-20201016DL

Tot Ion:129 Resp: 11921

Ion Ratio Lower Upper

129 100

127 0.0 38.6 115.8#



#62

4-Bromofluorobenzene

Concen: 51.360 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019160.D

Acq: 28 Oct 2020 13:09

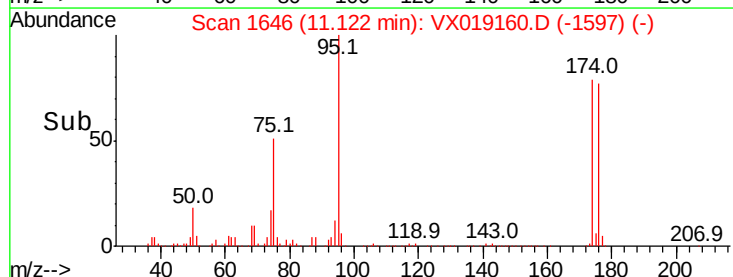
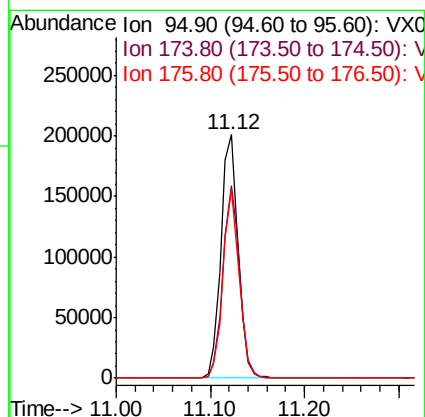
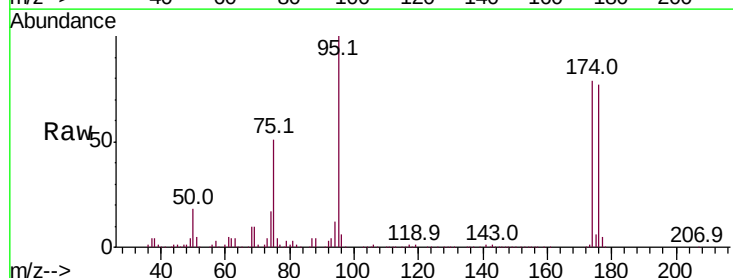
Tgt Ion: 95 Resp: 254649

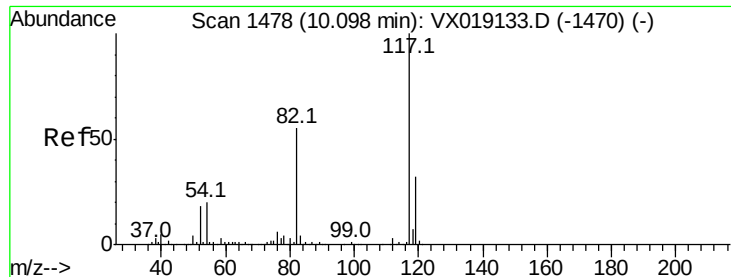
Ion Ratio Lower Upper

95 100

174 77.0 0.0 156.0

176 73.6 0.0 149.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX019160.D

Acq: 28 Oct 2020 13:09

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-MW179D2-GW-20201016DL

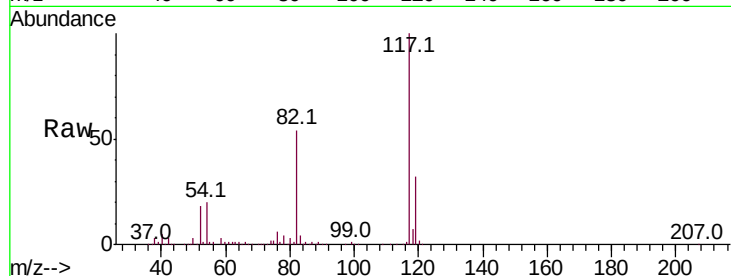
Tot Ion:117 Resp: 514062

Ion Ratio Lower Upper

117 100

82 54.2 43.6 65.4

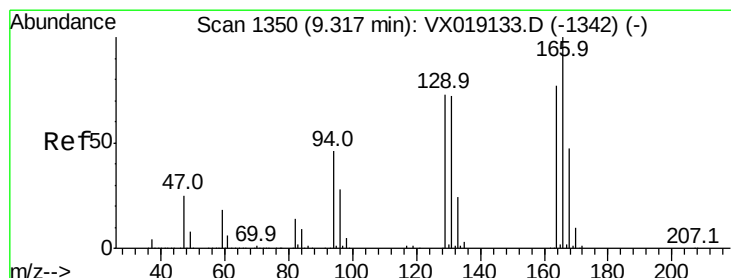
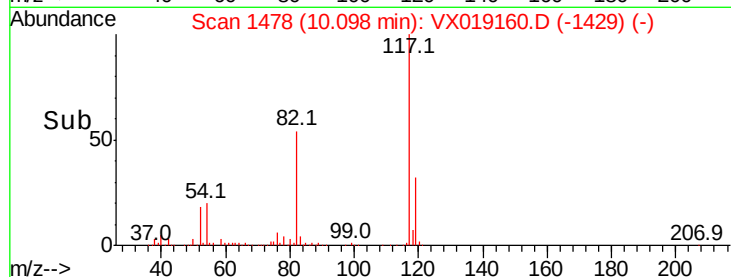
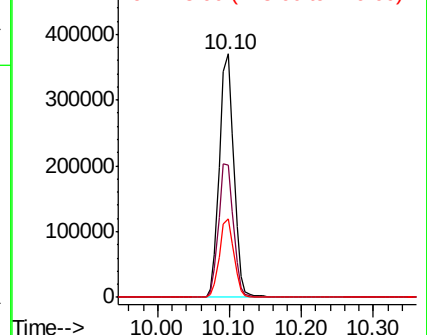
119 32.4 25.5 38.3



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: 3.186 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.00 min

Lab File: VX019160.D

Acq: 28 Oct 2020 13:09

Tgt Ion:164 Resp: 12478

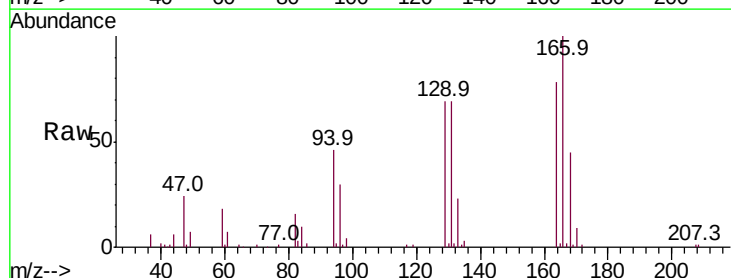
Ion Ratio Lower Upper

164 100

166 128.1 104.1 156.1

129 87.9 76.2 114.4

131 87.9 74.6 112.0

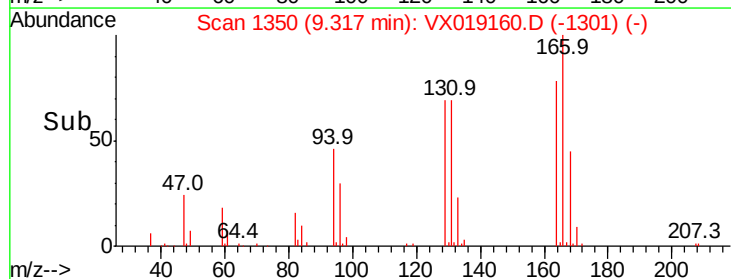
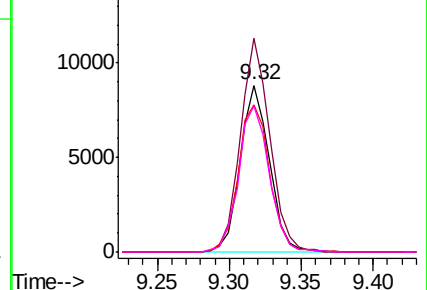


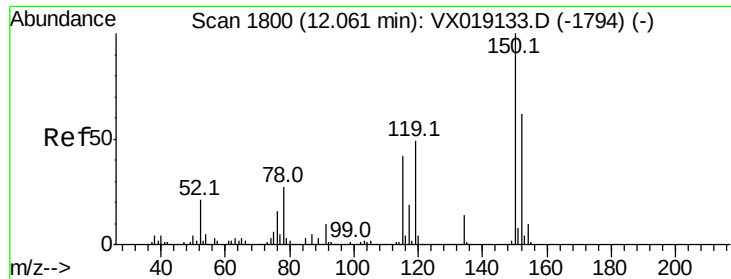
Abundance Ion 163.80 (163.50 to 164.50): V

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: VX019160.D

Acq: 28 Oct 2020 13:09

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-MW179D2-GW-20201016DL

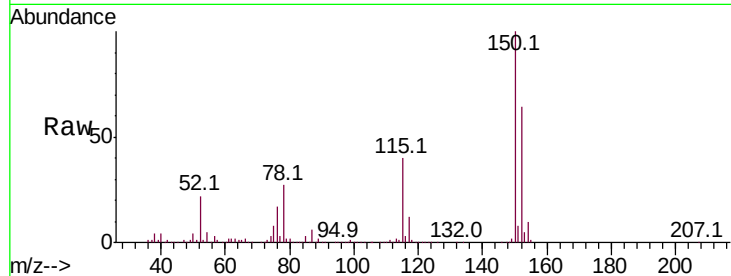
Tot Ion:152 Resp: 255862

Ion Ratio Lower Upper

152 100

115 60.6 41.9 125.7

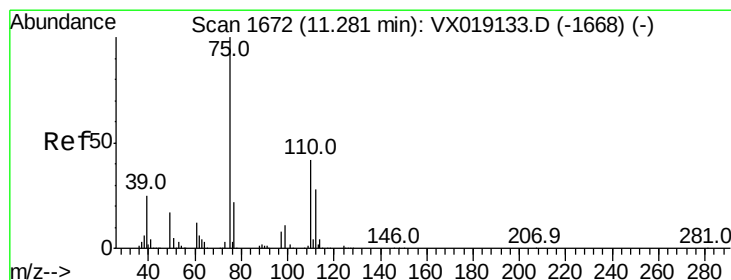
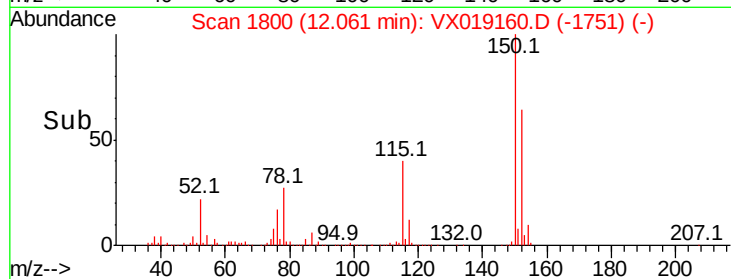
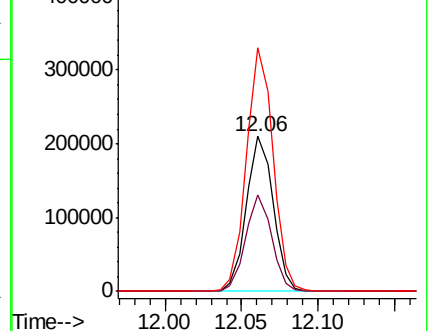
150 155.8 0.0 347.8



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: 24.558 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019160.D

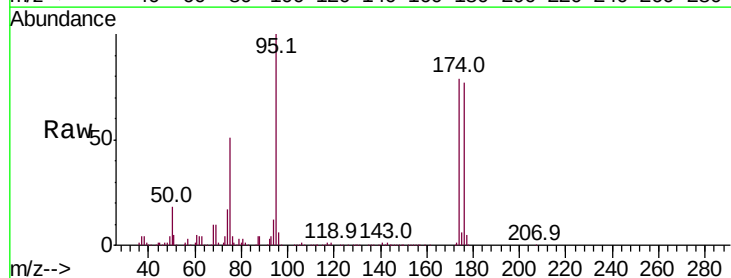
Acq: 28 Oct 2020 13:09

Tgt Ion: 75 Resp: 129738

Ion Ratio Lower Upper

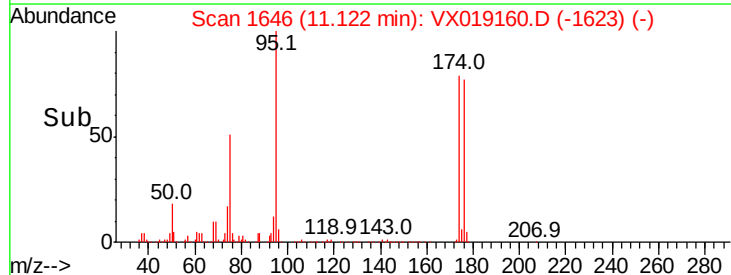
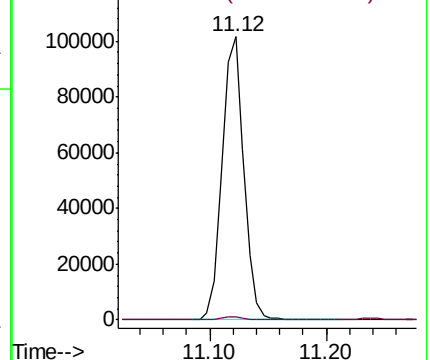
75 100

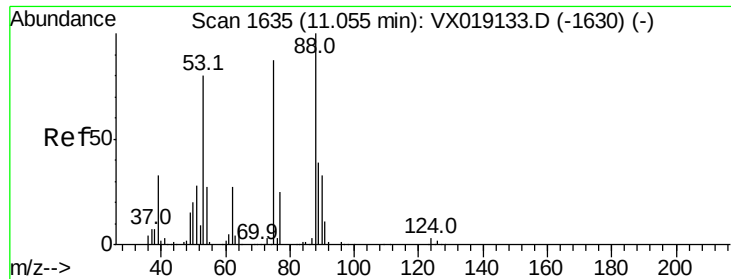
77 1.1 20.3 60.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

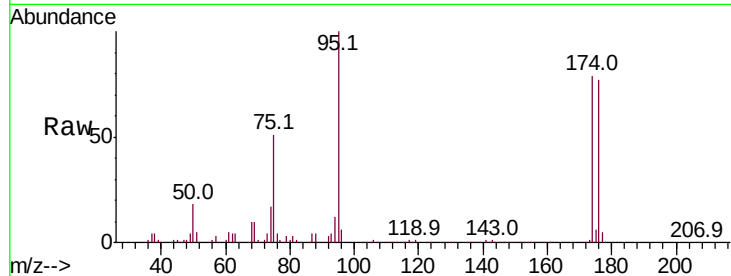




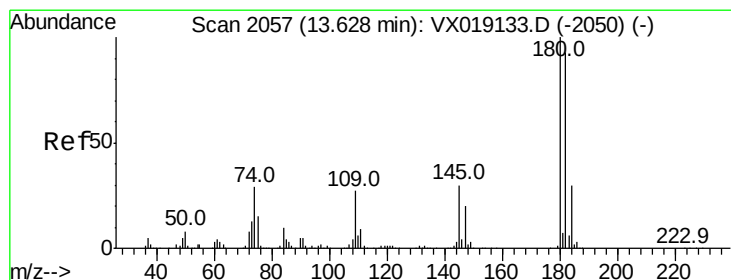
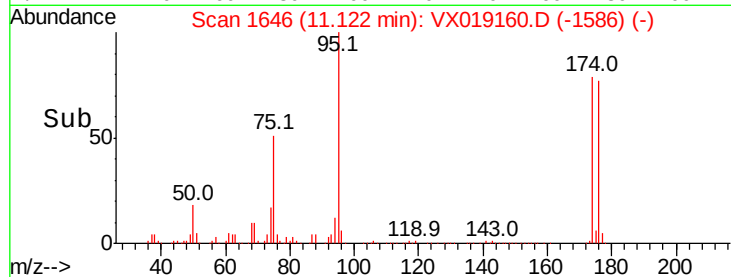
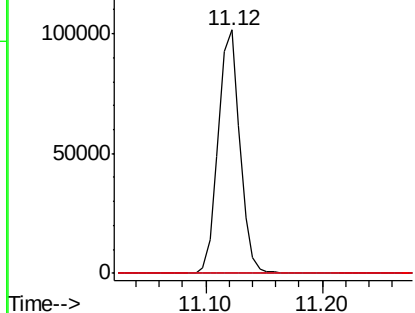
#81
trans-1,4-Dichloro-2-butene
Concen: 64.660 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.07 min
Lab File: VX019160.D
Acq: 28 Oct 2020 13:09

Instrument :
MSVOA_X
ClientSampleId :
BP-TT-MW179D2-GW-20201016DL

Tot Ion: 75 Resp: 129738
Ion Ratio Lower Upper
75 100
53 0.0 73.3 109.9#
89 0.0 38.2 57.2#

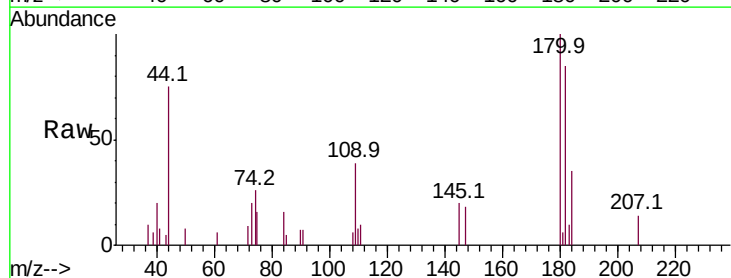


Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 88.90 (88.60 to 89.60): VX0

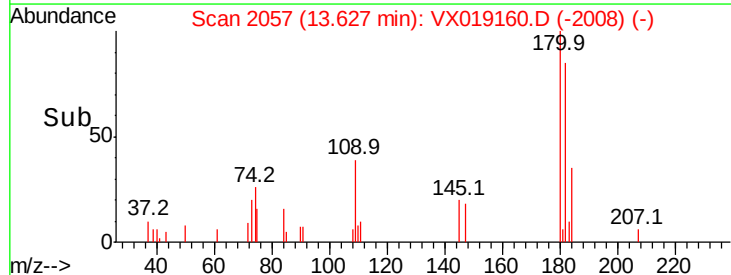
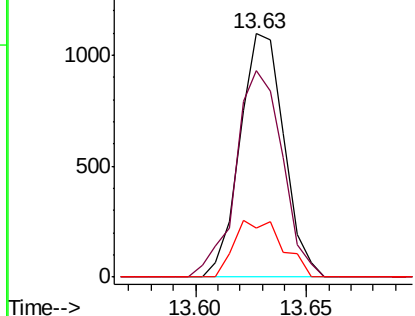


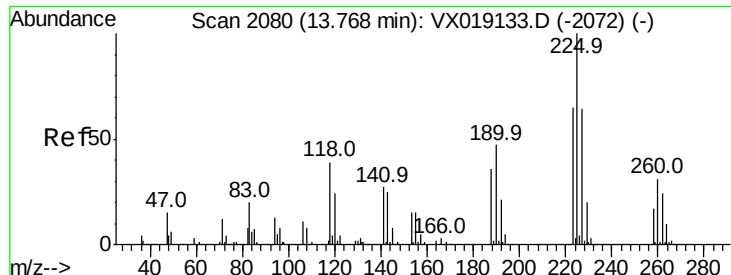
#93
1,2,4-Trichlorobenzene
Concen: 0.250 ug/l
RT: 13.63 min Scan# 2057
Delta R.T. -0.00 min
Lab File: VX019160.D
Acq: 28 Oct 2020 13:09

Tgt Ion:180 Resp: 1512
Ion Ratio Lower Upper
180 100
182 90.1 46.8 140.3
145 25.5 15.5 46.5



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





#94

Hexachlorobutadiene

Concen: 0.249 ug/l

RT: 13.76 min Scan# 2079

Delta R.T. -0.01 min

Lab File: VX019160.D

Acq: 28 Oct 2020 13:09

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-MW179D2-GW-20201016DL

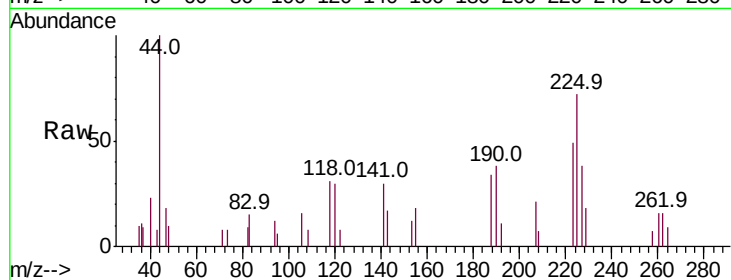
Tot Ion:225 Resp: 663

Ion Ratio Lower Upper

225 100

223 66.5 32.4 97.2

227 65.8 31.6 94.7



Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

