

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112320\
 Data File : VX019559.D
 Acq On : 23 Nov 2020 18:36
 Operator : JC/MD
 Sample : L4839-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 B3-GW

Quant Time: Nov 24 00:33:47 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112120W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 21 01:57:45 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.62	168	310124	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	500682	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	434296	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	179279	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	185159	46.05	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	92.10%
35) Dibromofluoromethane	5.46	113	146921	46.75	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	93.50%
50) Toluene-d8	8.70	98	584572	47.87	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	95.74%
62) 4-Bromofluorobenzene	11.12	95	199209	45.34	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	90.68%

Target Compounds

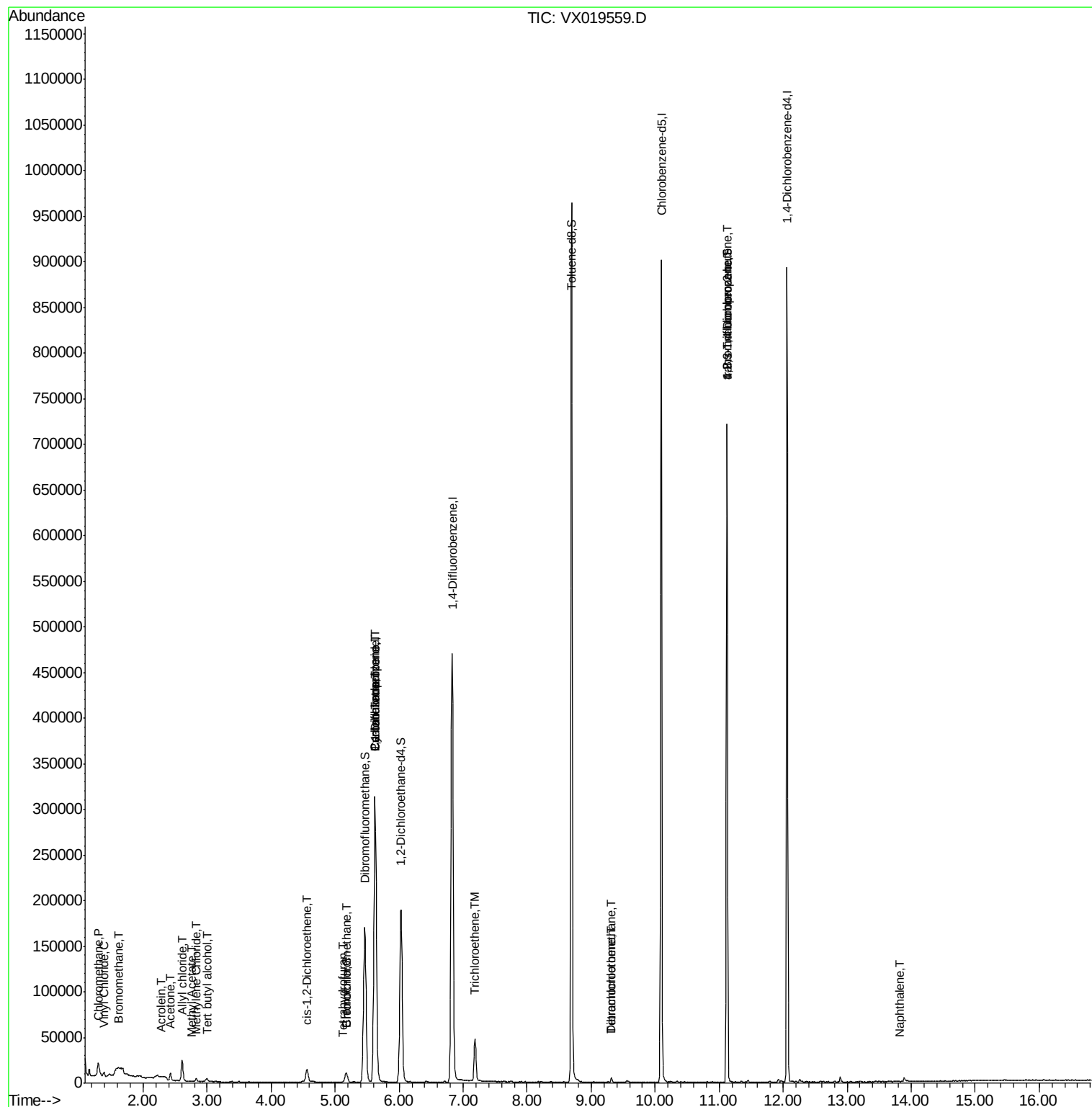
					Qvalue
3) Chloromethane	1.31	50	1566	0.453 ug/l	96
4) Vinyl Chloride	1.39	62	898	0.241 ug/l #	81
5) Bromomethane	1.62	94	454	0.322 ug/l	90
6) Chloroethane	1.69	64	919	Below Cal #	59
11) Tert butyl alcohol	3.00	59	2390	3.141 ug/l #	73
13) Acrolein	2.28	56	122	0.239 ug/l	86
14) Allyl chloride	2.61	41	3012	0.624 ug/l #	68
16) Acetone	2.43	43	7690	4.945 ug/l	95
18) Methyl Acetate	2.76	43	388	0.735 ug/l #	47
20) Methylene Chloride	2.82	84	1533	0.394 ug/l #	83
27) cis-1,2-Dichloroethene	4.56	96	8654	2.160 ug/l	77
28) Bromochloromethane	5.18	49	1053	0.361 ug/l #	8
29) Tetrahydrofuran	5.12	42	318	0.213 ug/l #	31
30) Chloroform	5.17	83	12646	1.982 ug/l	95
31) Cyclohexane	5.62	56	5972	1.142 ug/l #	1
36) 1,1-Dichloropropene	5.63	75	22566	4.808 ug/l #	49
38) Carbon Tetrachloride	5.63	117	29604	6.516 ug/l #	16
44) Trichloroethene	7.18	130	17322	4.585 ug/l	95
60) Dibromochloromethane	9.31	129	828	0.235 ug/l #	10
64) Tetrachloroethene	9.32	164	985	0.289 ug/l	92
76) 1,2,3-Trichloropropane	11.12	75	97334	24.878 ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	97334	65.738 ug/l #	12
95) Naphthalene	13.82	128	177	2.191 ug/l #	69

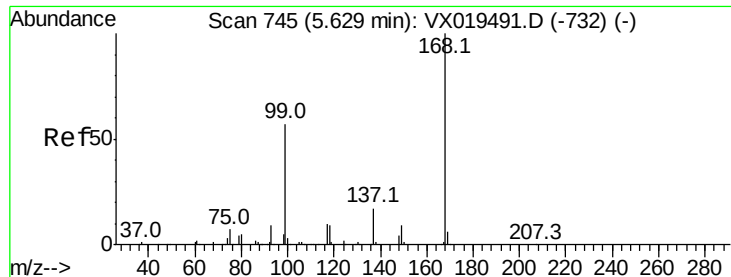
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX112320\
Data File : VX019559.D
Acq On : 23 Nov 2020 18:36
Operator : JC/MD
Sample : L4839-05
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B3-GW

Quant Time: Nov 24 00:33:47 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X112120W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 21 01:57:45 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.01 min

Lab File: VX019559.D

Acq: 23 Nov 2020 18:36

Instrument :

MSVOA_X

ClientSampleId :

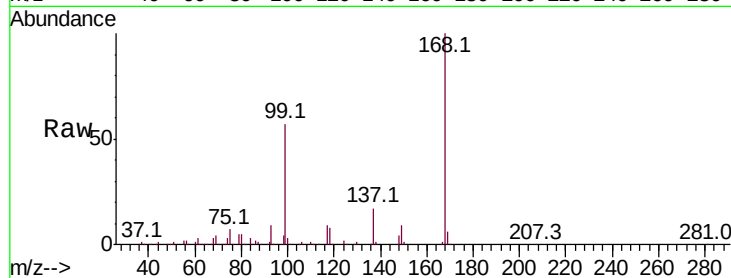
B3-GW

Tot Ion:168 Resp: 310124

Ion Ratio Lower Upper

168 100

99 56.9 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.62

120000

100000

80000

60000

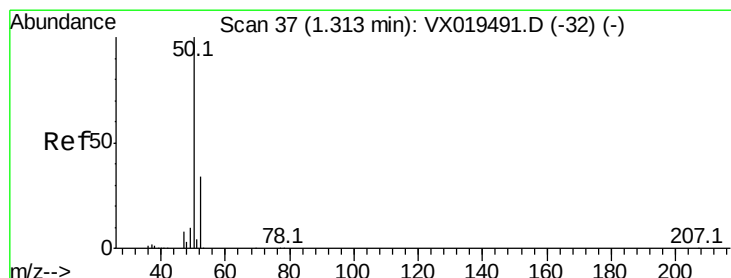
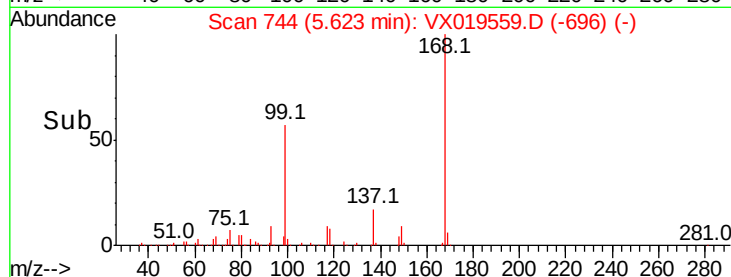
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.453 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX019559.D

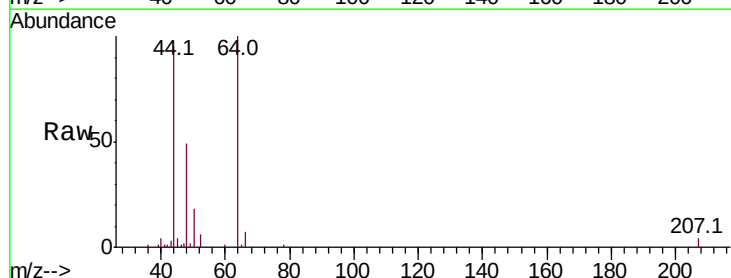
Acq: 23 Nov 2020 18:36

Tgt Ion: 50 Resp: 1566

Ion Ratio Lower Upper

50 100

52 31.7 27.0 40.6



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1200

1000

800

600

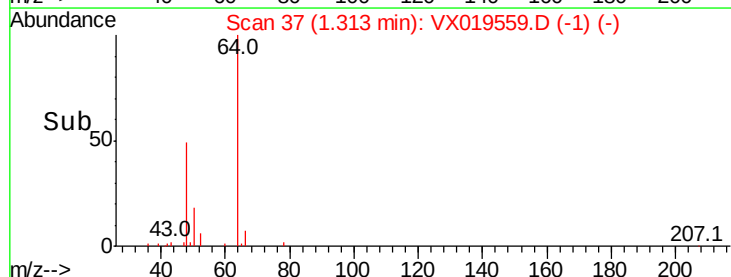
400

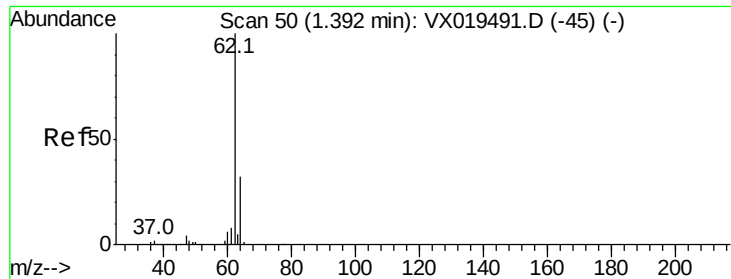
200

0

Time-->

1.25 1.30 1.35 1.40





#4

Vinyl Chloride

Concen: 0.241 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX019559.D

Acq: 23 Nov 2020 18:36

Instrument :

MSVOA_X

ClientSampled :

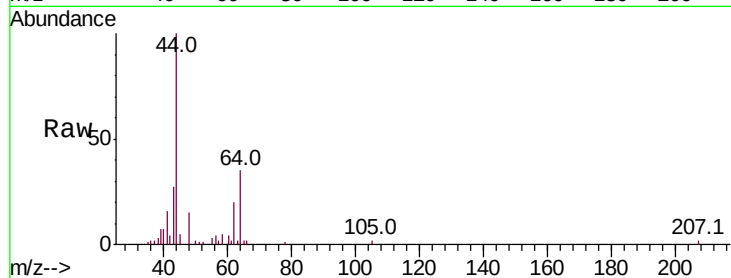
B3-GW

Tot Ion: 62 Resp: 898

Ion Ratio Lower Upper

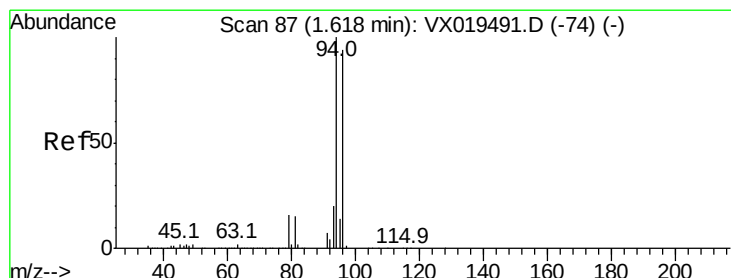
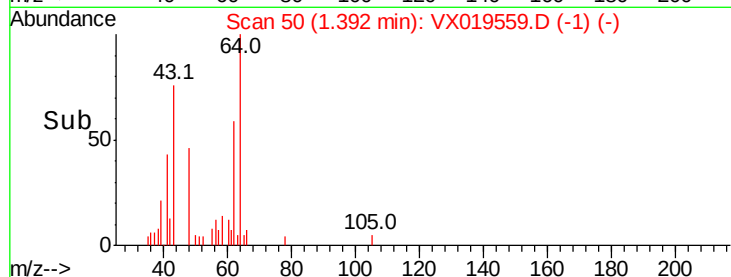
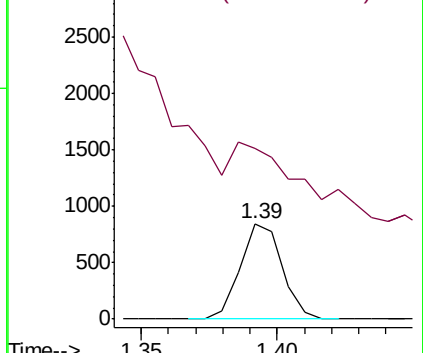
62 100

64 42.6 25.4 38.2#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.322 ug/l

RT: 1.62 min Scan# 88

Delta R.T. 0.01 min

Lab File: VX019559.D

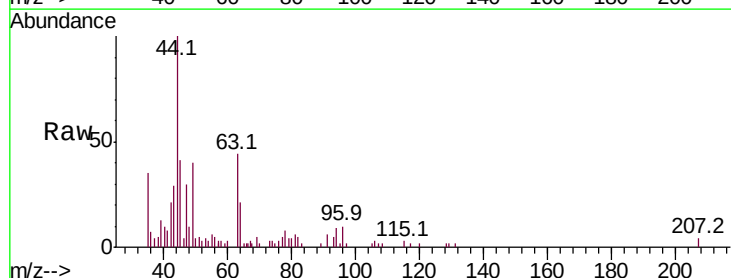
Acq: 23 Nov 2020 18:36

Tgt Ion: 94 Resp: 454

Ion Ratio Lower Upper

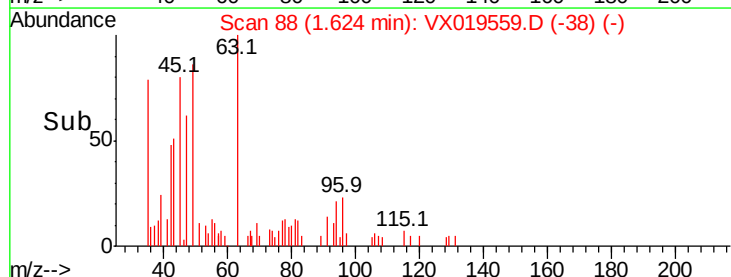
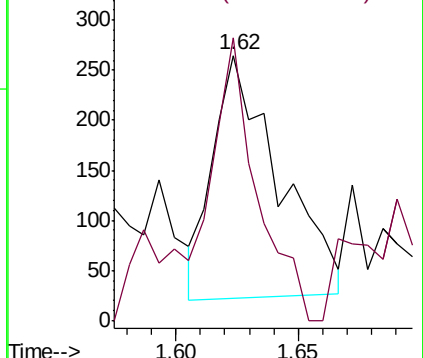
94 100

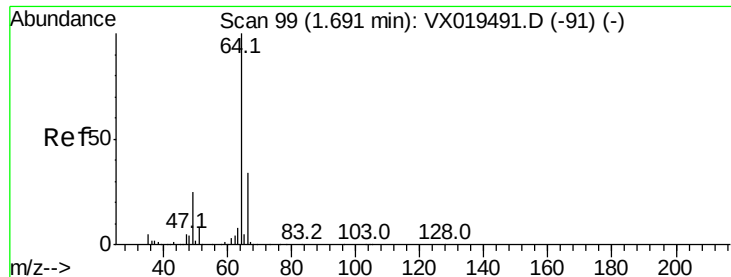
96 104.2 75.6 113.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 99

Delta R.T. 0.00 min

Lab File: VX019559.D

Acq: 23 Nov 2020 18:36

Instrument :

MSVOA_X

ClientSampleId :

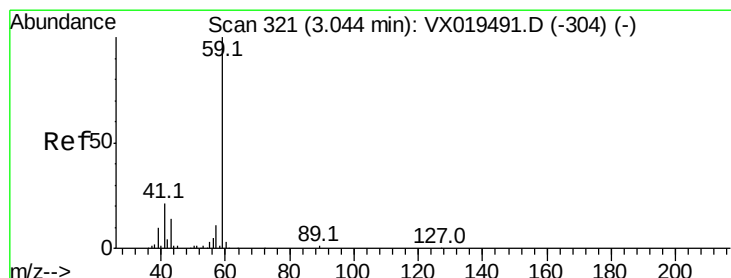
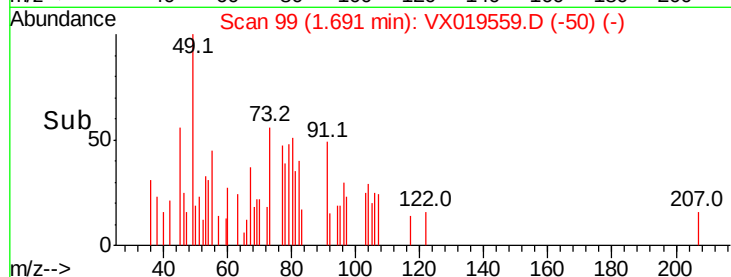
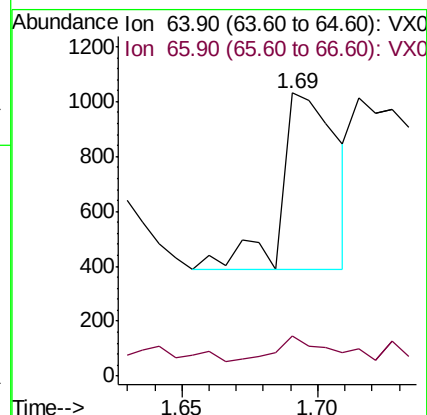
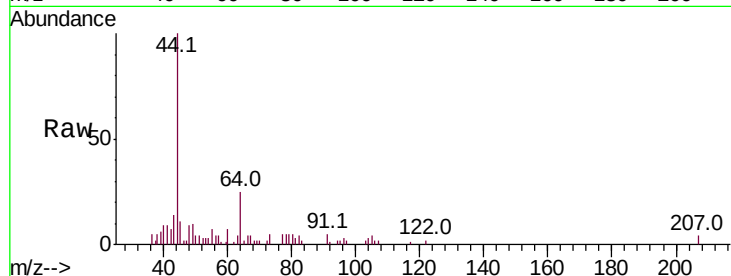
B3-GW

Tot Ion: 64 Resp: 919

Ion Ratio Lower Upper

64 100

66 10.3 27.1 40.7#



#11

Tert butyl alcohol

Concen: 3.141 ug/l

RT: 3.00 min Scan# 314

Delta R.T. -0.04 min

Lab File: VX019559.D

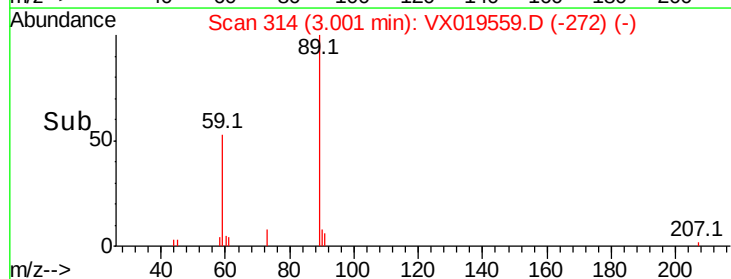
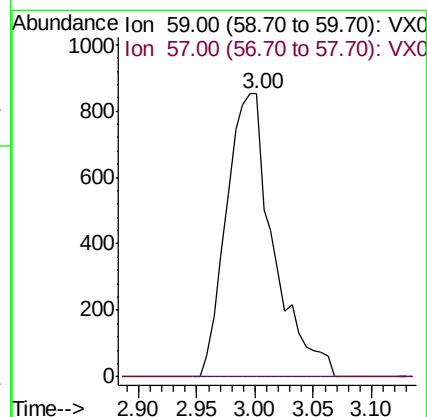
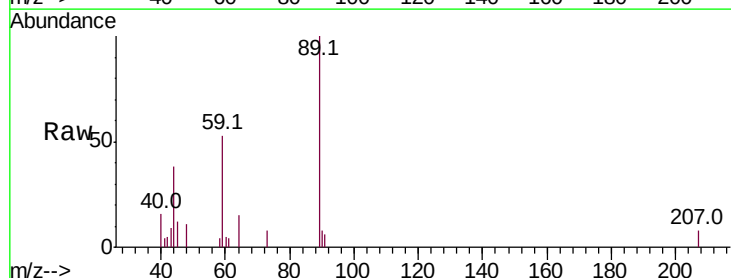
Acq: 23 Nov 2020 18:36

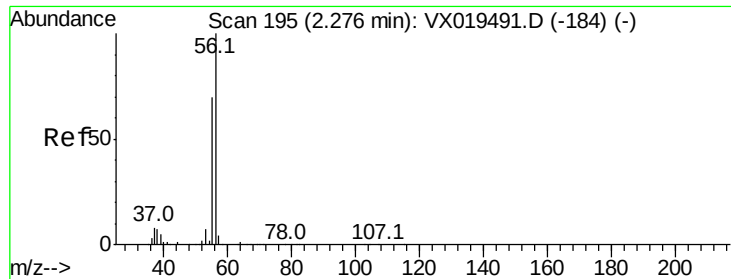
Tgt Ion: 59 Resp: 2390

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#





#13

Acrolein

Concen: 0.239 ug/l

RT: 2.28 min Scan# 195

Delta R.T. -0.00 min

Lab File: VX019559.D

Acq: 23 Nov 2020 18:36

Instrument :

MSVOA_X

ClientSampleId :

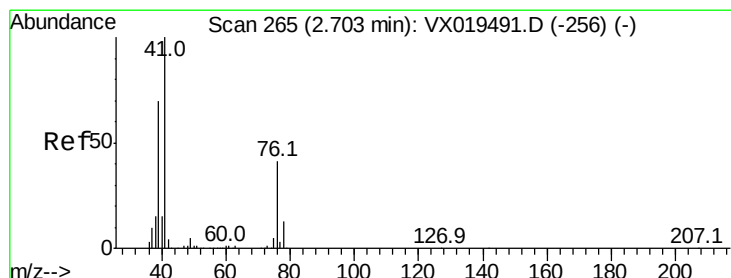
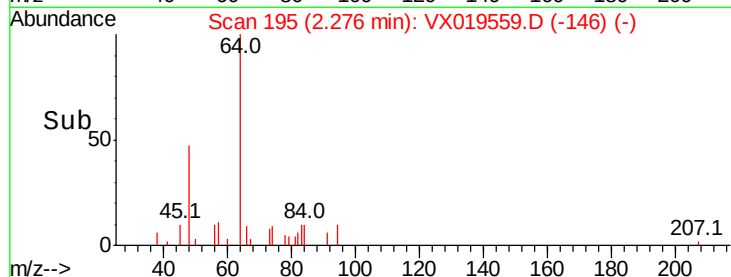
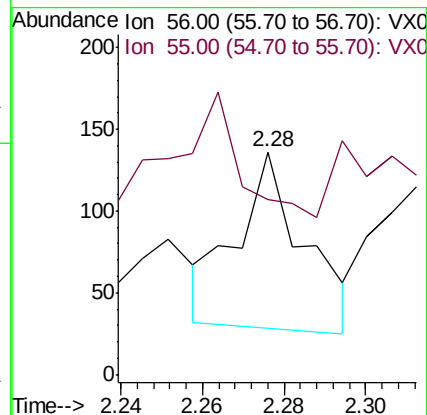
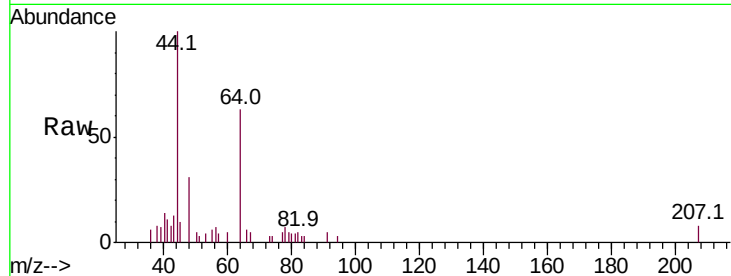
B3-GW

Tot Ion: 56 Resp: 122

Ion Ratio Lower Upper

56 100

55 58.2 55.5 83.3



#14

Allyl chloride

Concen: 0.624 ug/l

RT: 2.61 min Scan# 250

Delta R.T. -0.09 min

Lab File: VX019559.D

Acq: 23 Nov 2020 18:36

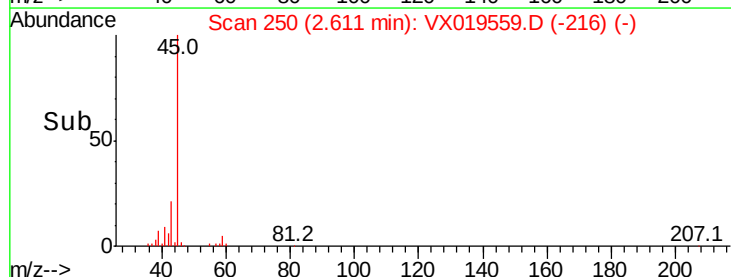
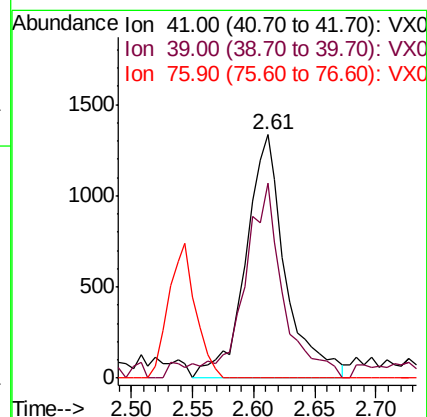
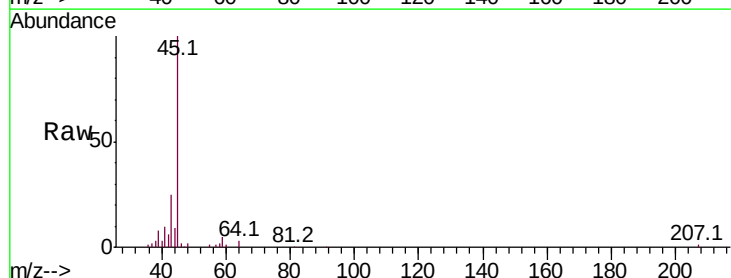
Tgt Ion: 41 Resp: 3012

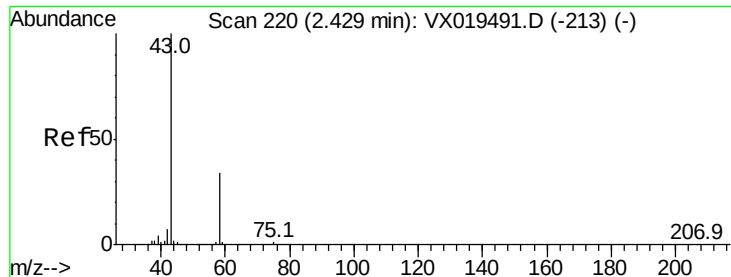
Ion Ratio Lower Upper

41 100

39 76.4 53.0 79.4

76 0.0 31.0 46.6#





#16

Acetone

Concen: 4.945 ug/l

RT: 2.43 min Scan# 220

Delta R.T. -0.00 min

Lab File: VX019559.D

Acq: 23 Nov 2020 18:36

Instrument :

MSVOA_X

ClientSampled :

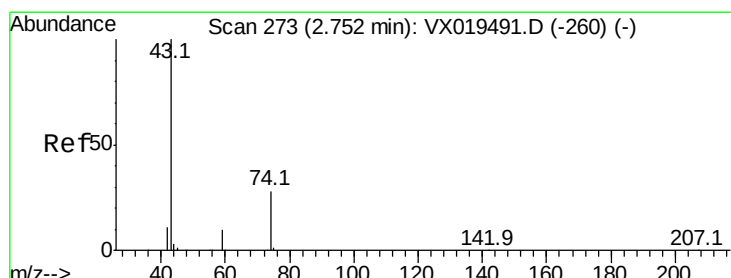
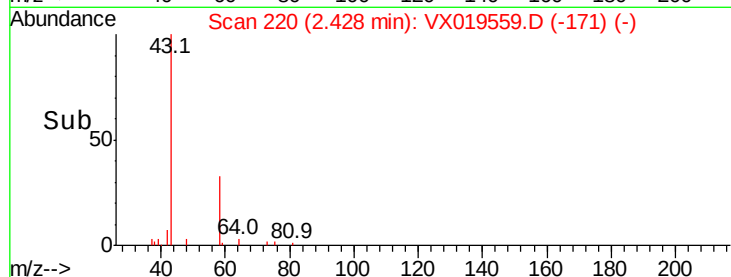
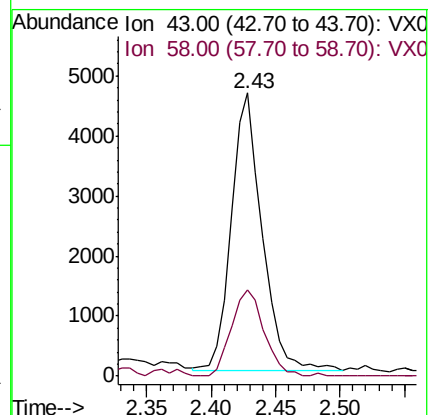
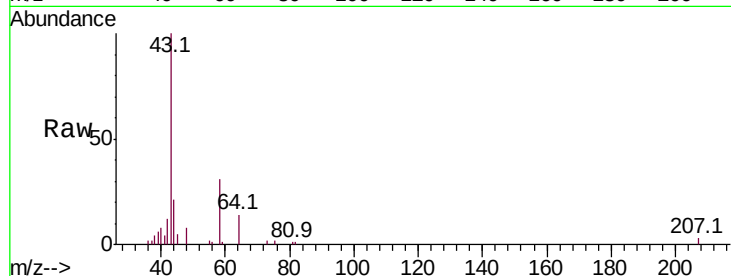
B3-GW

Tot Ion: 43 Resp: 7690

Ion Ratio Lower Upper

43 100

58 31.2 27.4 41.2



#18

Methyl Acetate

Concen: 0.735 ug/l

RT: 2.76 min Scan# 274

Delta R.T. 0.01 min

Lab File: VX019559.D

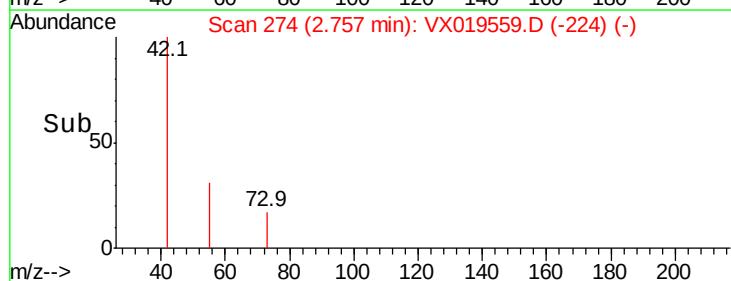
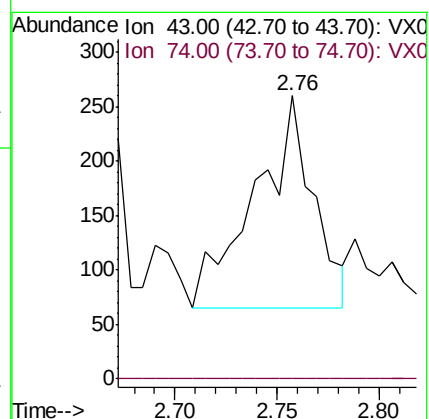
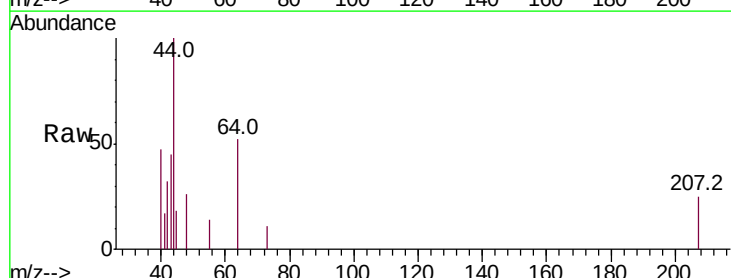
Acq: 23 Nov 2020 18:36

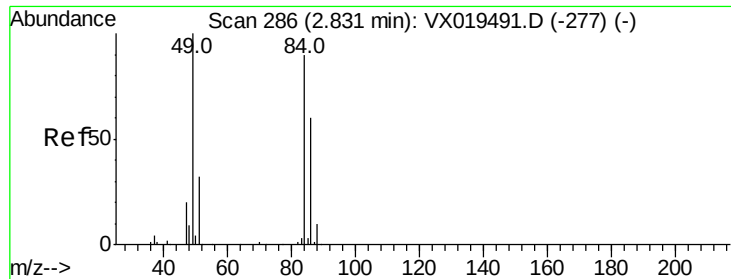
Tgt Ion: 43 Resp: 388

Ion Ratio Lower Upper

43 100

74 0.0 22.2 33.4#

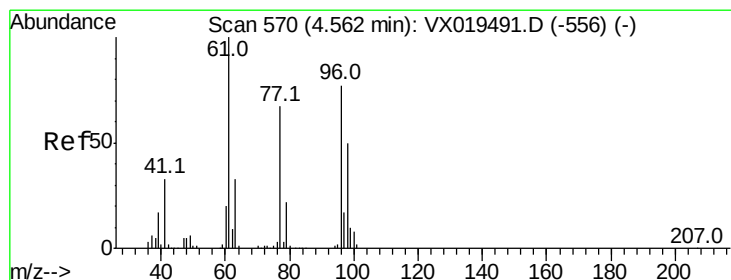
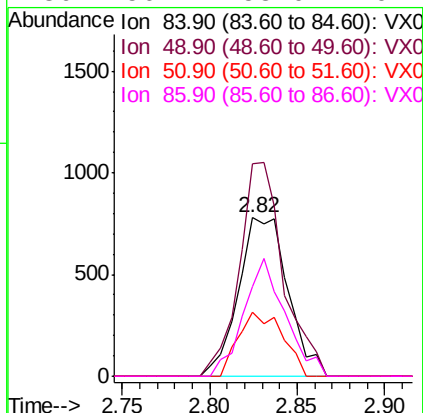
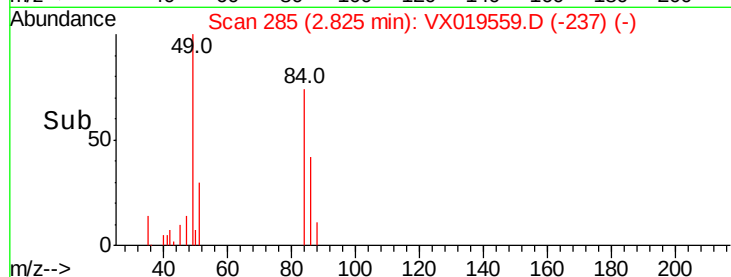
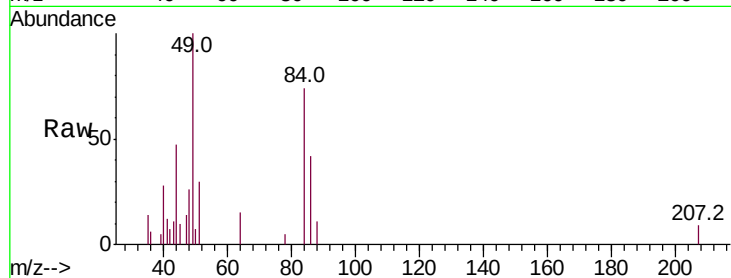




#20
Methylene Chloride
Concen: 0.394 ug/l
RT: 2.82 min Scan# 285
Delta R.T. -0.01 min
Lab File: VX019559.D
Acq: 23 Nov 2020 18:36

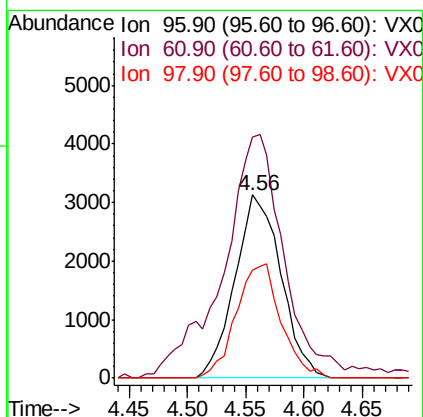
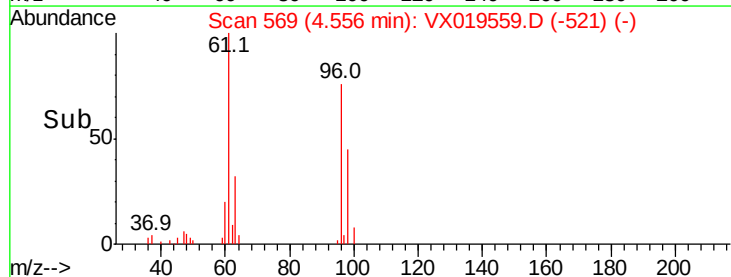
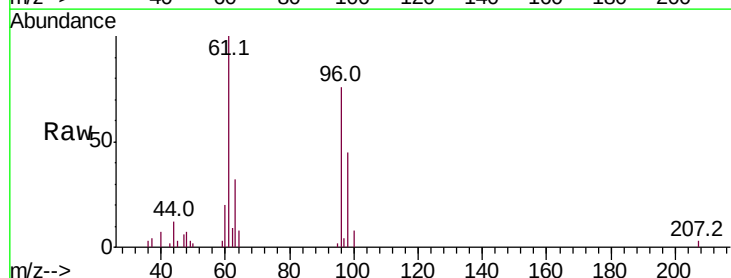
Instrument :
MSVOA_X
ClientSampleId :
B3-GW

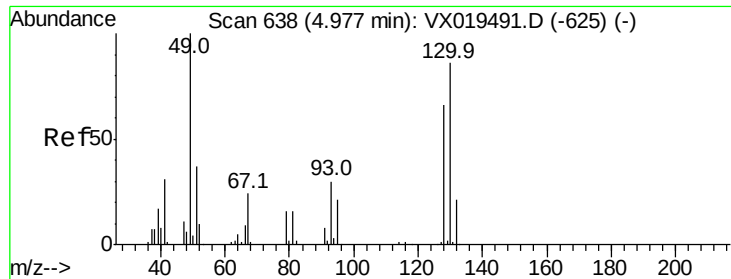
Tot Ion: 84 Resp: 1533
Ion Ratio Lower Upper
84 100
49 134.4 88.5 132.7#
51 40.4 28.0 42.0
86 56.2 53.0 79.4



#27
cis-1,2-Dichloroethene
Concen: 2.160 ug/l
RT: 4.56 min Scan# 569
Delta R.T. -0.01 min
Lab File: VX019559.D
Acq: 23 Nov 2020 18:36

Tgt Ion: 96 Resp: 8654
Ion Ratio Lower Upper
96 100
61 178.0 0.0 279.2
98 60.5 0.0 129.8





#28

Bromochloromethane

Concen: 0.361 ug/l

RT: 5.18 min Scan# 671

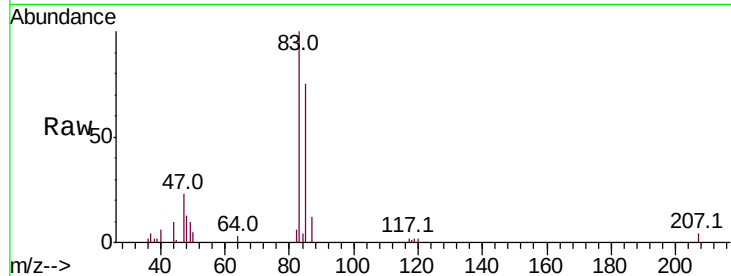
Delta R.T. 0.20 min

Lab File: VX019559.D

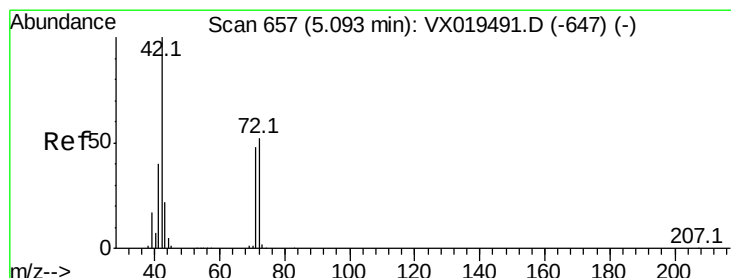
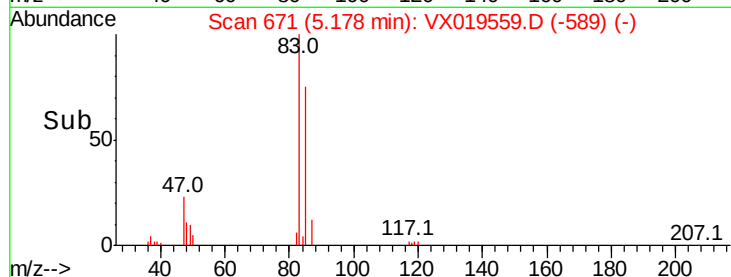
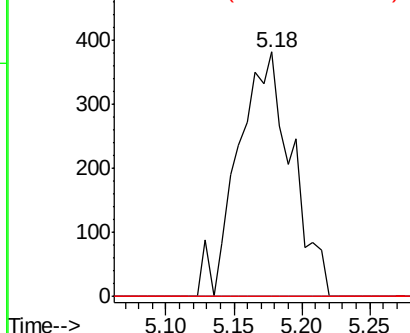
Acq: 23 Nov 2020 18:36

Instrument :
MSVOA_X
ClientSampled :
B3-GW

Tot Ion: 49 Resp: 1053
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.2
130 0.0 69.0 103.6#



Abundance Ion 48.90 (48.60 to 49.60): VX0
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V



#29

Tetrahydrofuran

Concen: 0.213 ug/l

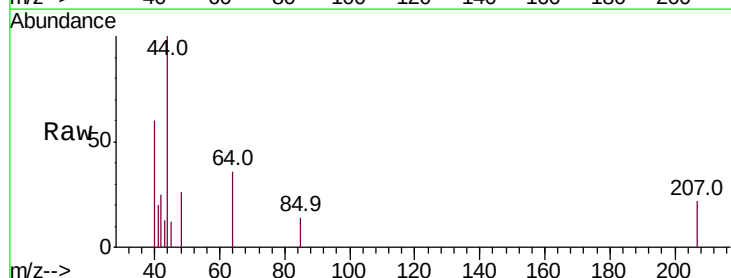
RT: 5.12 min Scan# 661

Delta R.T. 0.02 min

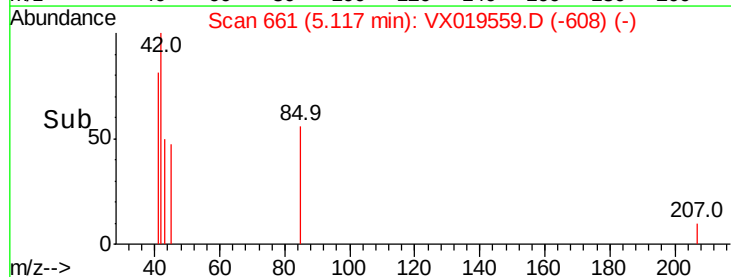
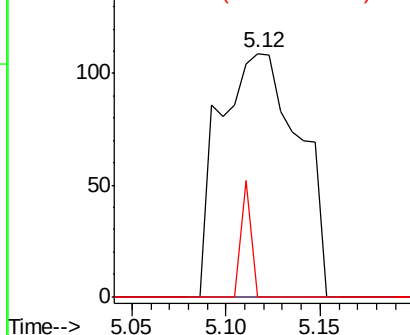
Lab File: VX019559.D

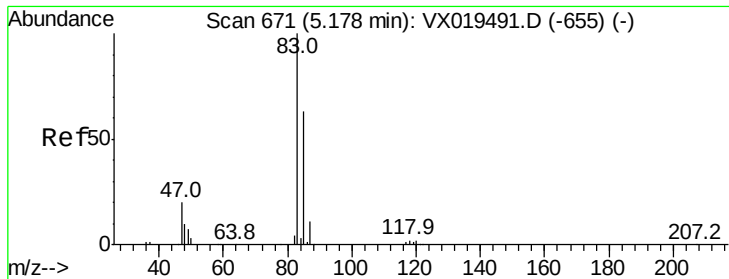
Acq: 23 Nov 2020 18:36

Tgt Ion: 42 Resp: 318
Ion Ratio Lower Upper
42 100
72 0.0 42.6 63.8#
71 6.0 39.0 58.6#



Abundance Ion 42.00 (41.70 to 42.70): VX0
Ion 72.00 (71.70 to 72.70): VX0
Ion 71.00 (70.70 to 71.70): VX0

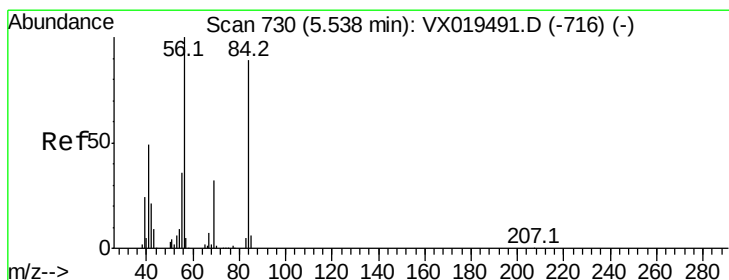
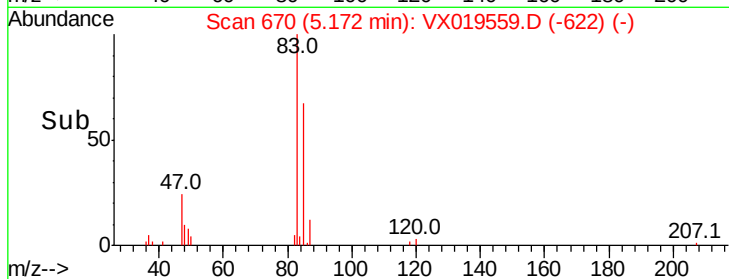
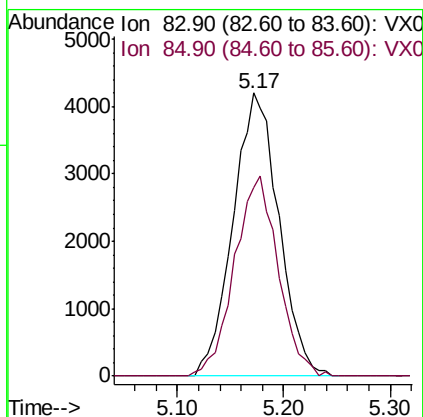
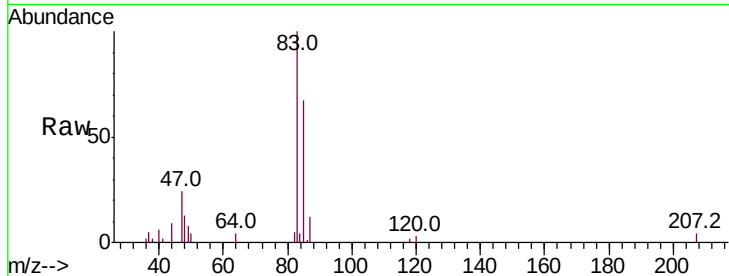




#30
Chloroform
Concen: 1.982 ug/l
RT: 5.17 min Scan# 670
Delta R.T. -0.01 min
Lab File: VX019559.D
Acq: 23 Nov 2020 18:36

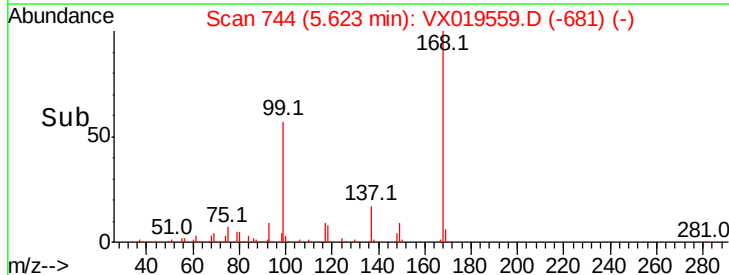
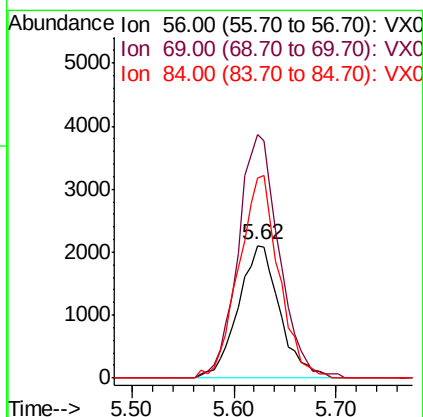
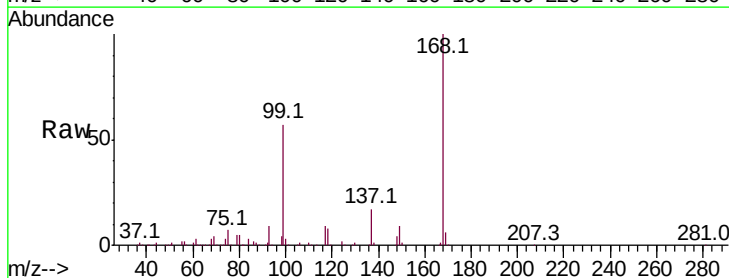
Instrument :
MSVOA_X
ClientSampleId :
B3-GW

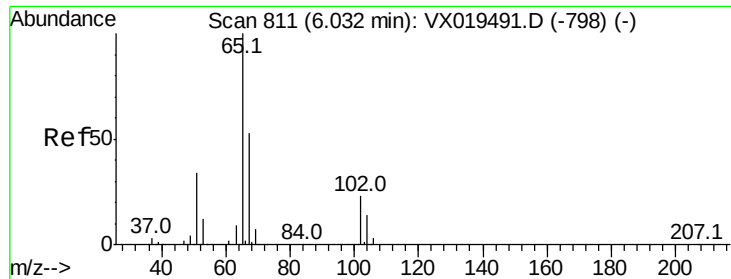
Tot Ion: 83 Resp: 12646
Ion Ratio Lower Upper
83 100
85 66.7 50.5 75.7



#31
Cyclohexane
Concen: 1.142 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.09 min
Lab File: VX019559.D
Acq: 23 Nov 2020 18:36

Tgt Ion: 56 Resp: 5972
Ion Ratio Lower Upper
56 100
69 183.7 25.5 38.3#
84 150.5 71.1 106.7#

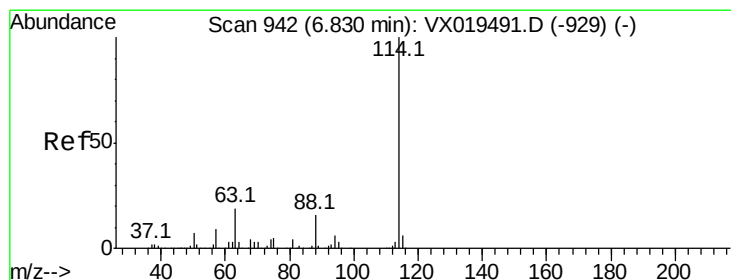
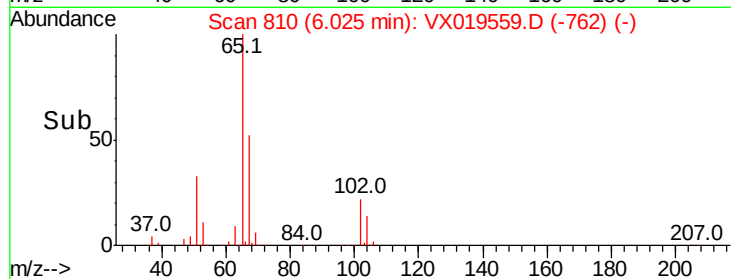
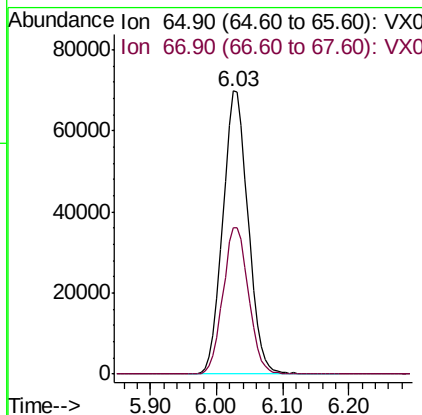
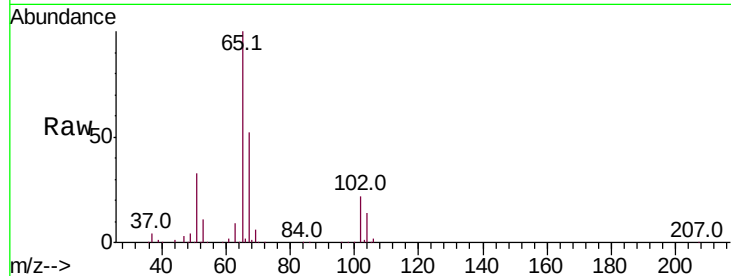




#33
 1,2-Dichloroethane-d4
 Concen: 46.048 ug/l
 RT: 6.03 min Scan# 810
 Delta R.T. -0.01 min
 Lab File: VX019559.D
 Acq: 23 Nov 2020 18:36

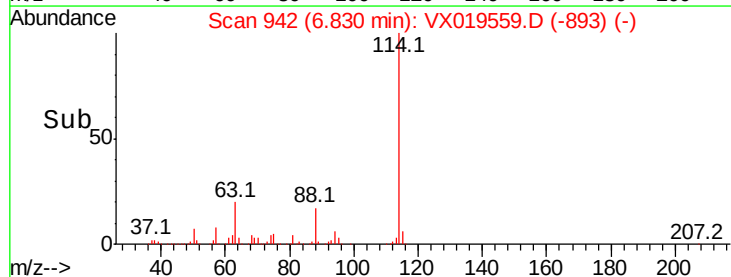
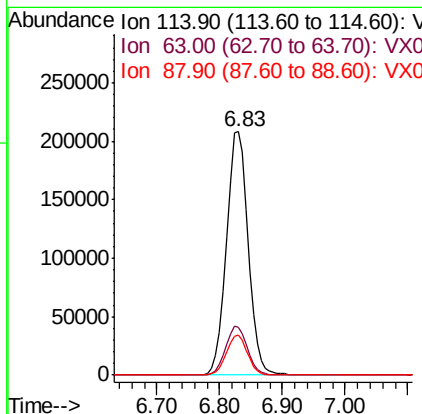
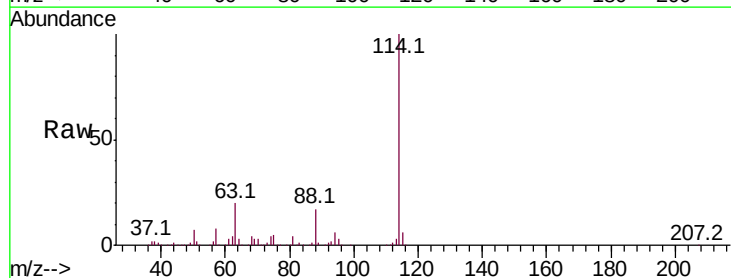
Instrument :
 MSVOA_X
 ClientSampleId :
 B3-GW

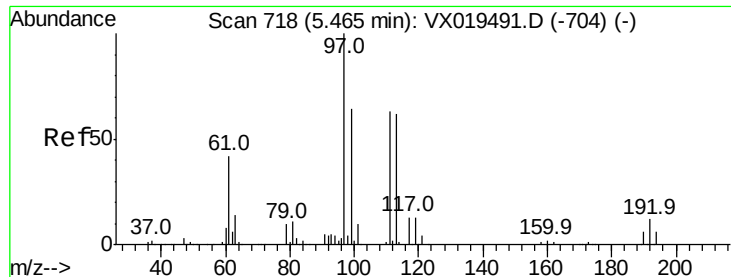
Tot Ion: 65 Resp: 185159
 Ion Ratio Lower Upper
 65 100
 67 52.4 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: VX019559.D
 Acq: 23 Nov 2020 18:36

Tgt Ion: 114 Resp: 500682
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 38.8
 88 16.6 0.0 31.6





#35

Dibromofluoromethane

Concen: 46.749 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX019559.D

Acq: 23 Nov 2020 18:36

Instrument :

MSVOA_X

ClientSampleId :

B3-GW

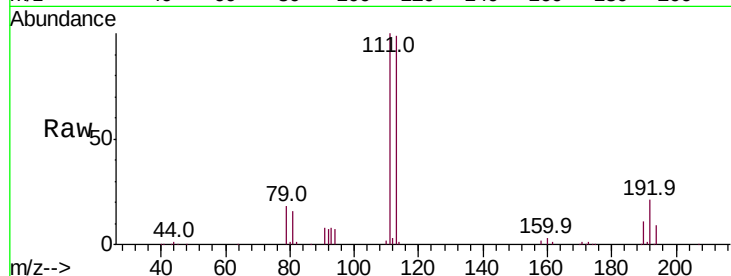
Tot Ion:113 Resp: 146921

Ion Ratio Lower Upper

113 100

111 102.9 81.5 122.3

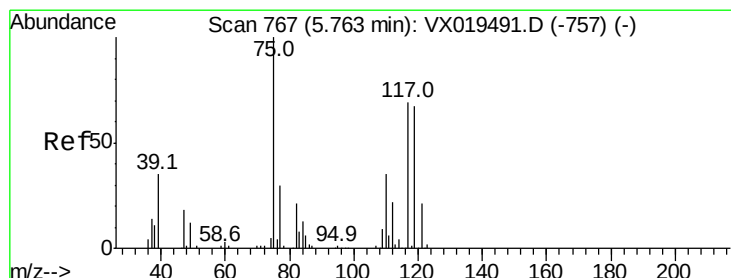
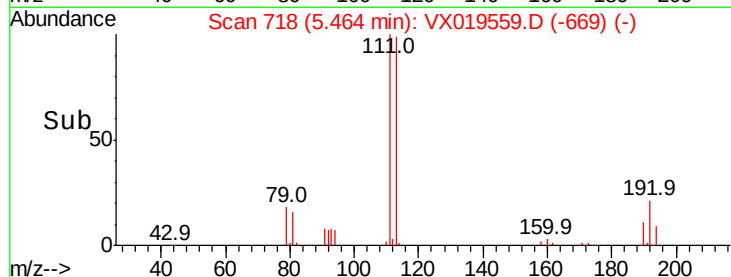
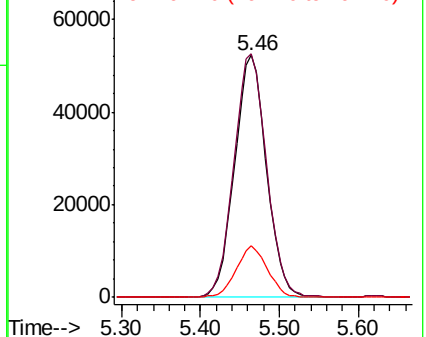
192 20.8 16.2 24.2



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: 4.808 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX019559.D

Acq: 23 Nov 2020 18:36

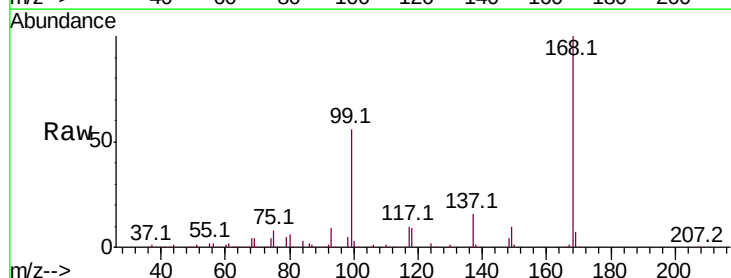
Tgt Ion: 75 Resp: 22566

Ion Ratio Lower Upper

75 100

110 9.0 18.1 54.3#

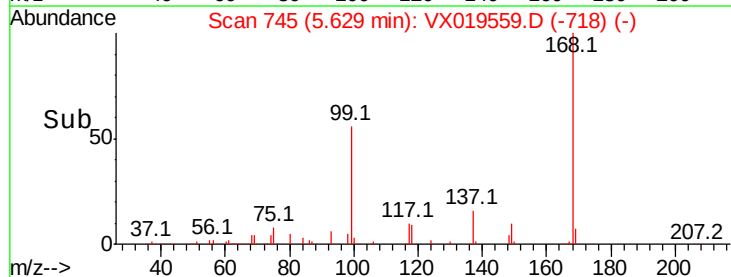
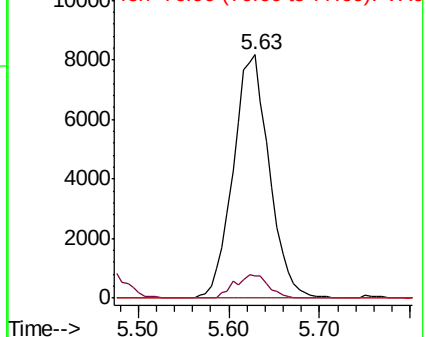
77 0.0 24.2 36.4#

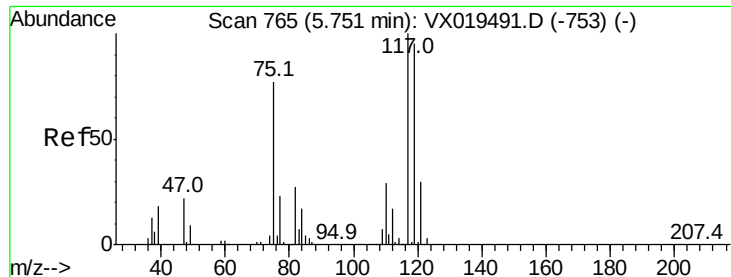


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.516 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019559.D

Acq: 23 Nov 2020 18:36

Instrument :

MSVOA_X

ClientSampled :

B3-GW

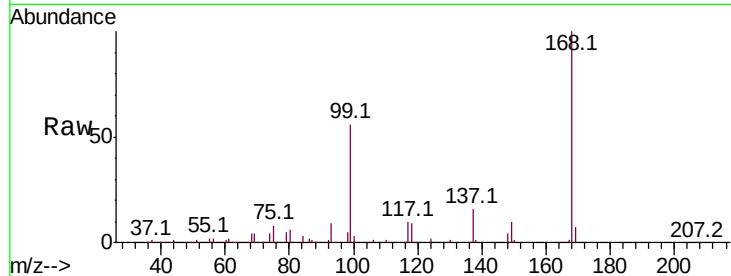
Tot Ion:117 Resp: 29604

Ion Ratio Lower Upper

117 100

119 4.9 75.9 113.9#

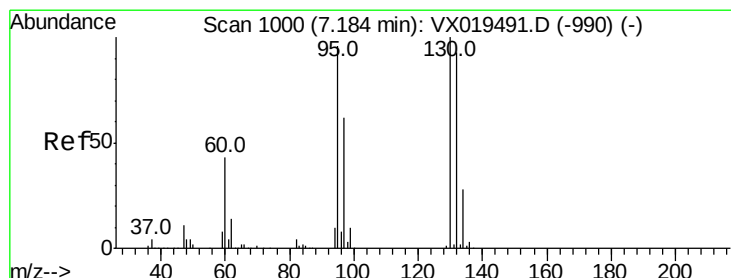
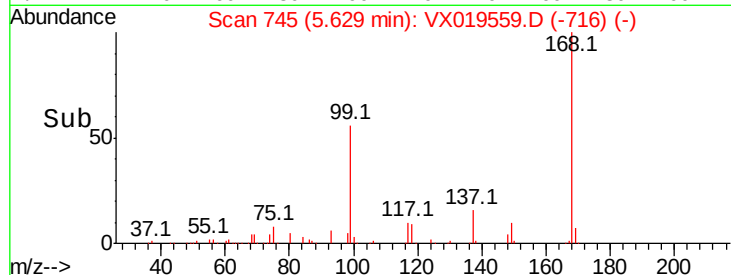
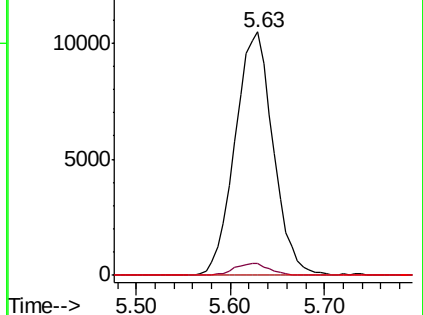
121 0.0 24.0 36.0#



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: 4.585 ug/l

RT: 7.18 min Scan# 1000

Delta R.T. -0.00 min

Lab File: VX019559.D

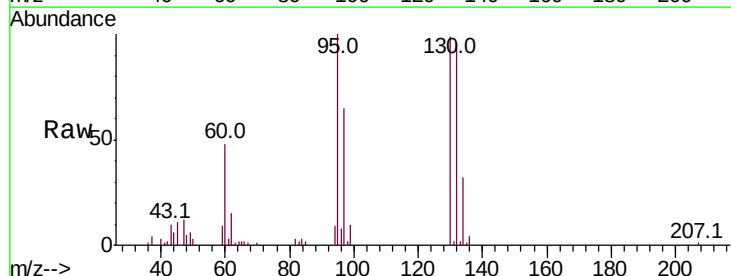
Acq: 23 Nov 2020 18:36

Tgt Ion:130 Resp: 17322

Ion Ratio Lower Upper

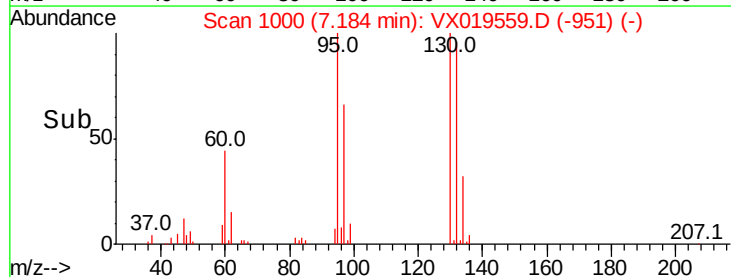
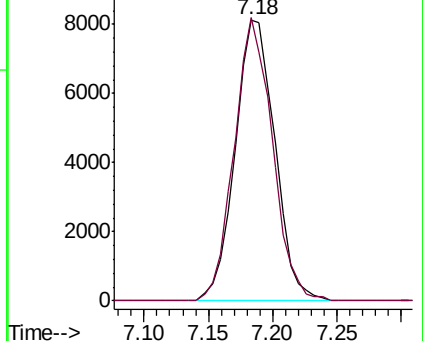
130 100

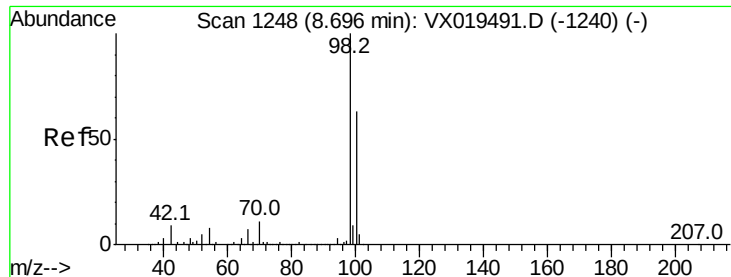
95 100.8 0.0 191.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

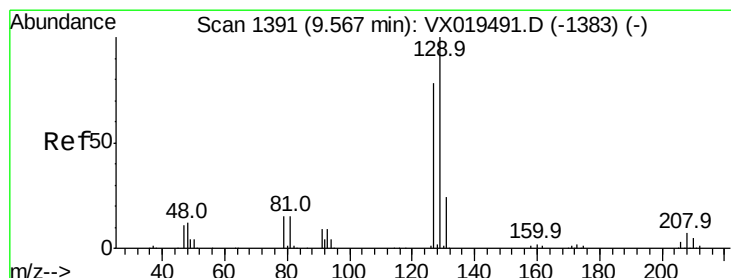
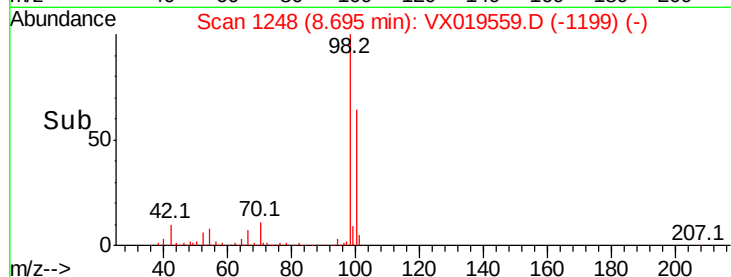
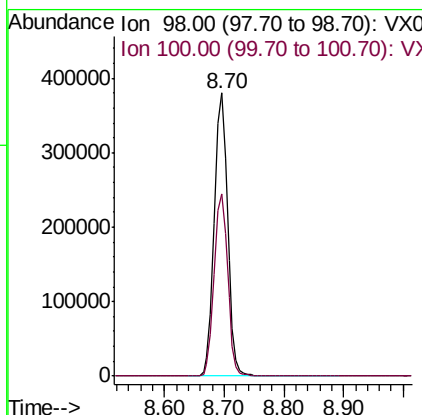
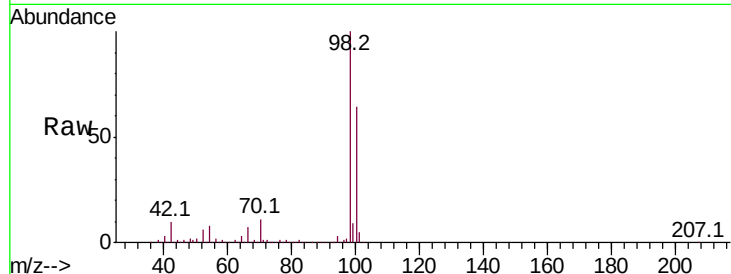




#50
Toluene-d8
Concen: 47.867 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX019559.D
Acq: 23 Nov 2020 18:36

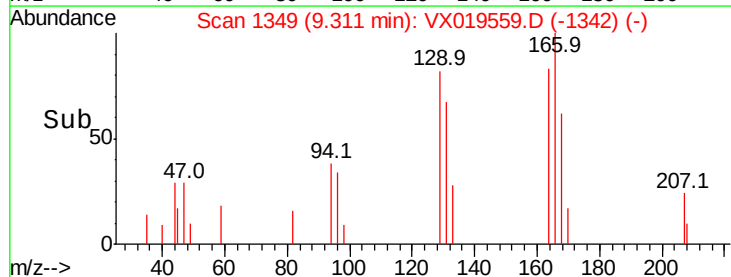
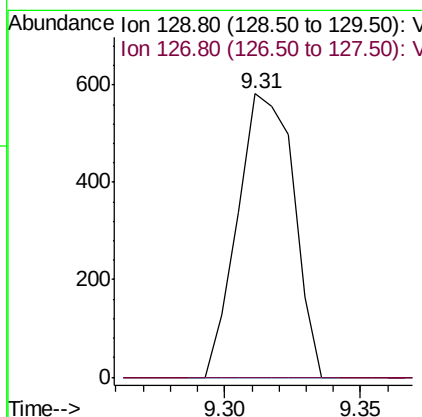
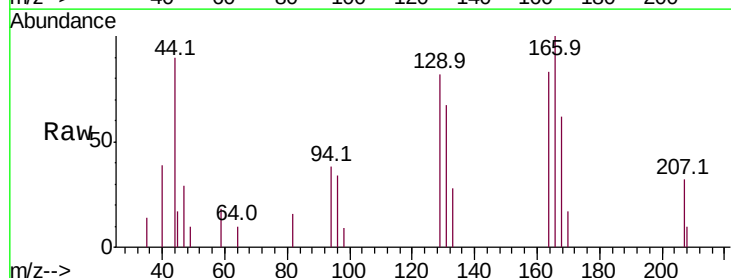
Instrument :
MSVOA_X
ClientSampleId :
B3-GW

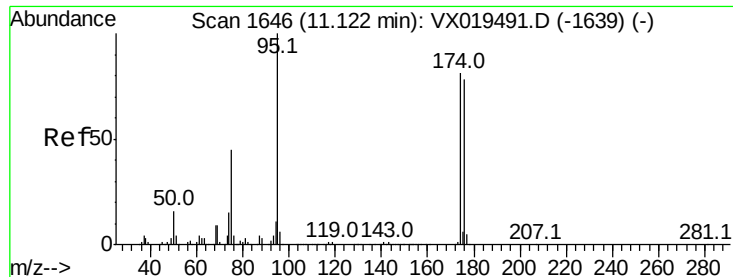
Tot Ion: 98 Resp: 584572
Ion Ratio Lower Upper
98 100
100 65.7 52.4 78.6



#60
Dibromochloromethane
Concen: 0.235 ug/l
RT: 9.31 min Scan# 1349
Delta R.T. -0.26 min
Lab File: VX019559.D
Acq: 23 Nov 2020 18:36

Tgt Ion: 129 Resp: 828
Ion Ratio Lower Upper
129 100
127 0.0 39.0 116.9#





#62

4-Bromofluorobenzene

Concen: 45.338 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019559.D

Acq: 23 Nov 2020 18:36

Instrument :

MSVOA_X

ClientSampleId :

B3-GW

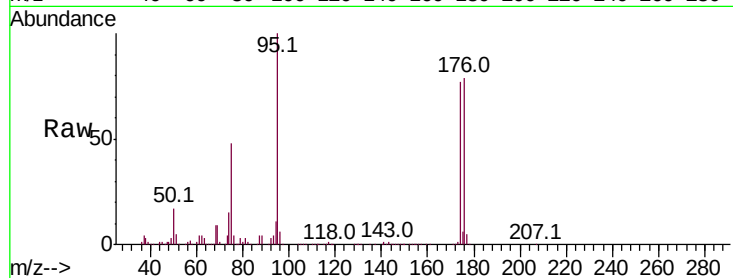
Tot Ion: 95 Resp: 199209

Ion Ratio Lower Upper

95 100

174 77.6 0.0 156.2

176 74.6 0.0 151.4



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): VX0

Ion 175.80 (175.50 to 176.50): VX0

11.12

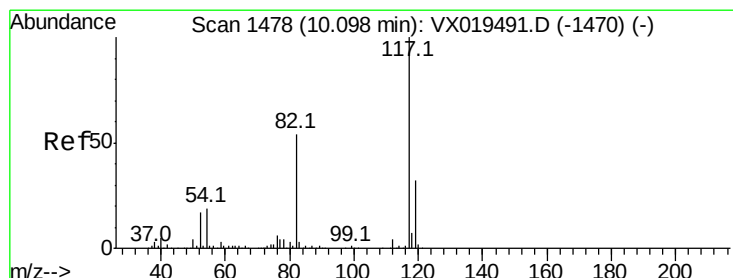
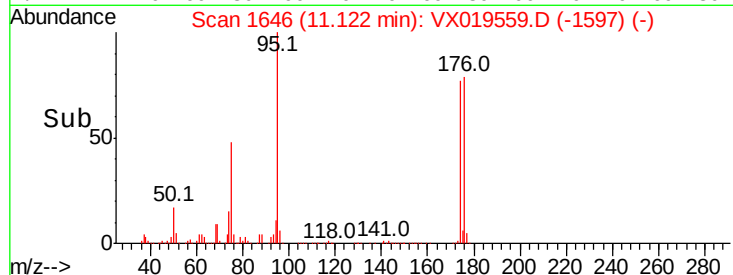
150000

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX019559.D

Acq: 23 Nov 2020 18:36

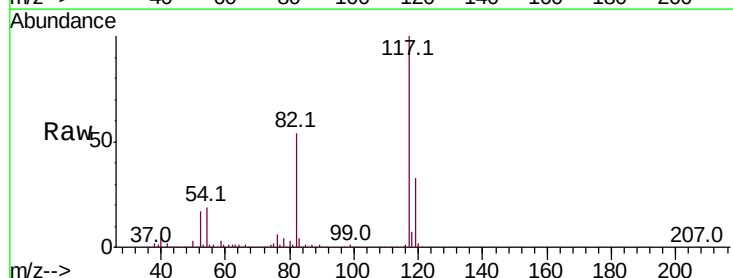
Tgt Ion: 117 Resp: 434296

Ion Ratio Lower Upper

117 100

82 53.5 43.0 64.4

119 33.2 25.6 38.4



Abundance Ion 116.90 (116.60 to 117.60): VX0

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): VX0

10.10

400000

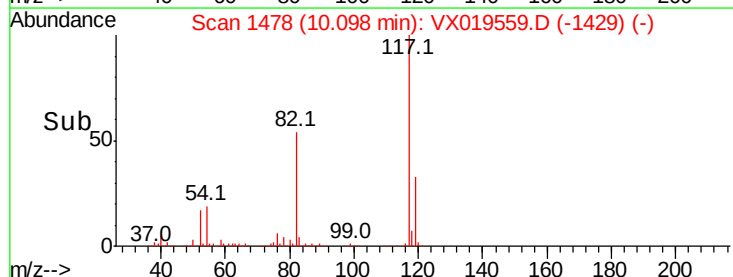
300000

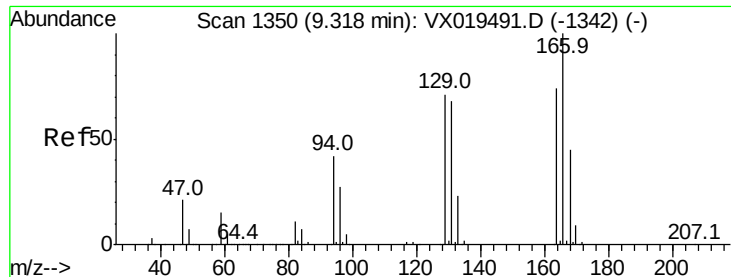
200000

100000

0

Time-->

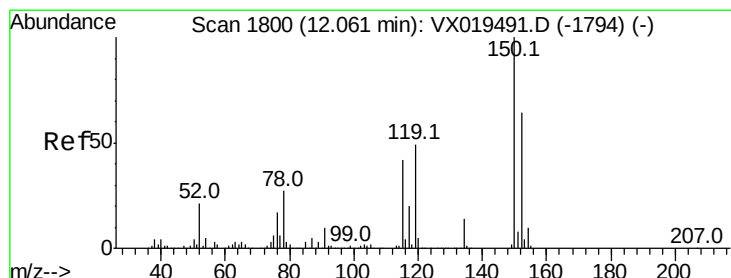
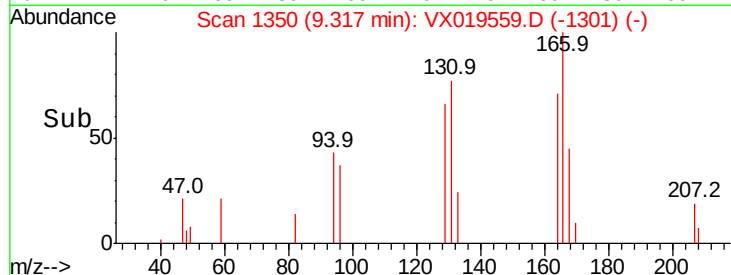
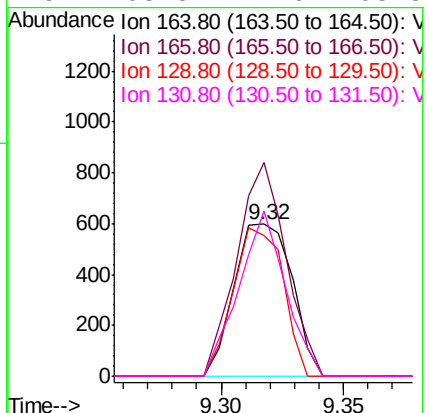
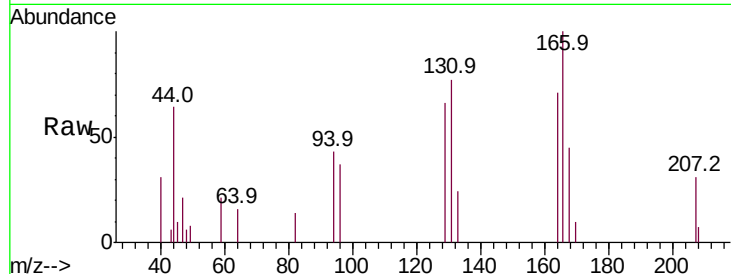




#64
Tetrachloroethene
Concen: 0.289 ug/l
RT: 9.32 min Scan# 1350
Delta R.T. -0.00 min
Lab File: VX019559.D
Acq: 23 Nov 2020 18:36

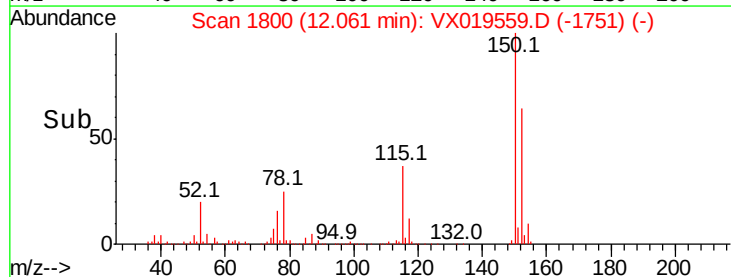
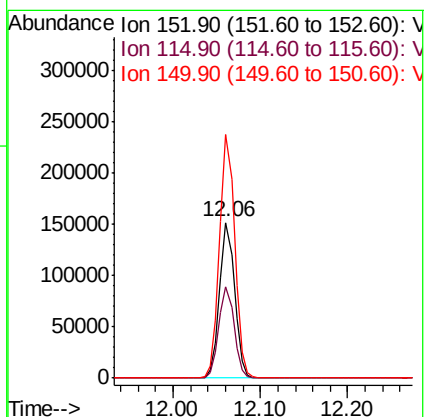
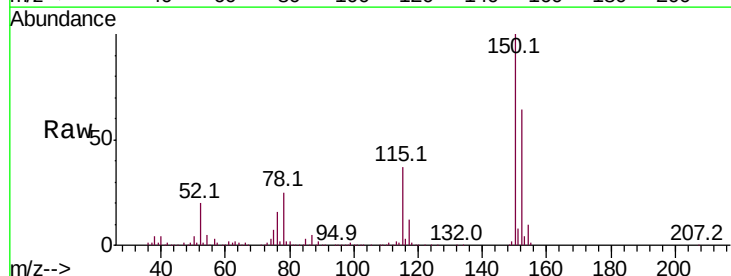
Instrument :
MSVOA_X
ClientSampleId :
B3-GW

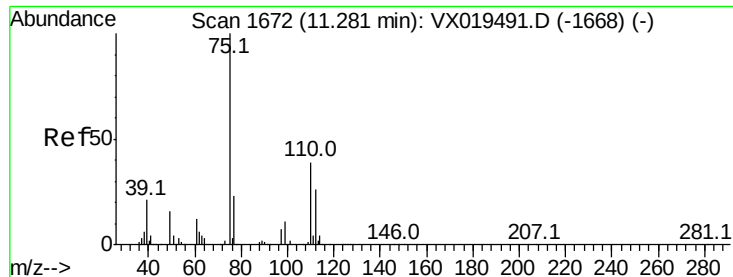
Tot Ion:164 Resp: 985
Ion Ratio Lower Upper
164 100
166 140.2 107.4 161.0
129 92.8 76.6 114.8
131 108.3 72.6 108.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX019559.D
Acq: 23 Nov 2020 18:36

Tgt Ion:152 Resp: 179279
Ion Ratio Lower Upper
152 100
115 60.1 41.8 125.4
150 158.5 0.0 348.2





#76

1,2,3-Trichloropropane

Concen: 24.878 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019559.D

Acq: 23 Nov 2020 18:36

Instrument :

MSVOA_X

ClientSampleId :

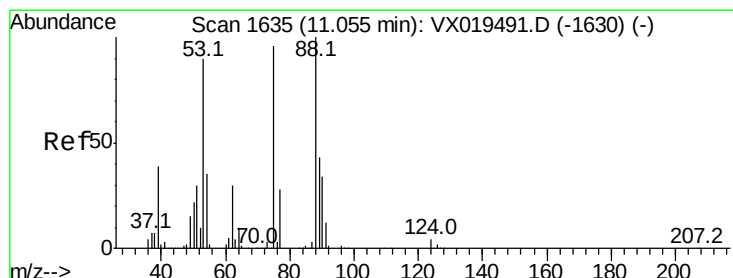
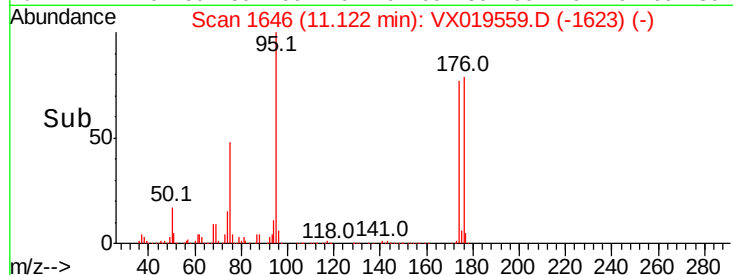
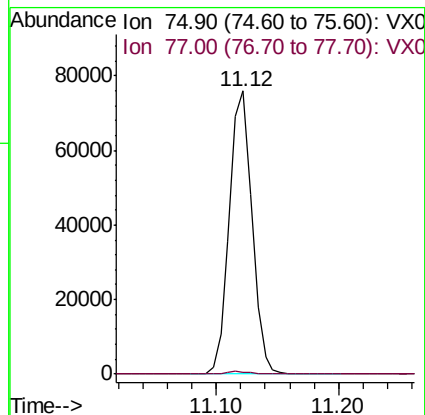
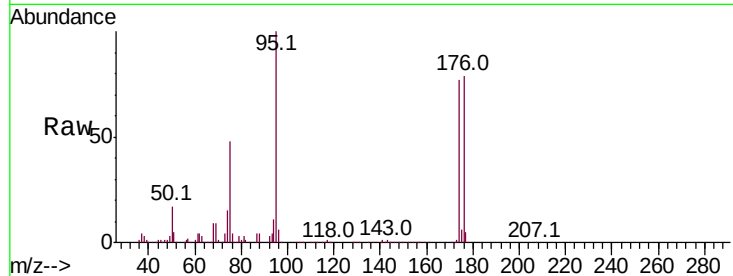
B3-GW

Tot Ion: 75 Resp: 97334

Ion Ratio Lower Upper

75 100

77 1.0 20.0 60.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 65.738 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019559.D

Acq: 23 Nov 2020 18:36

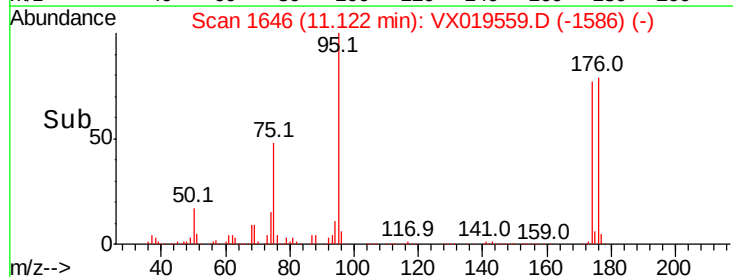
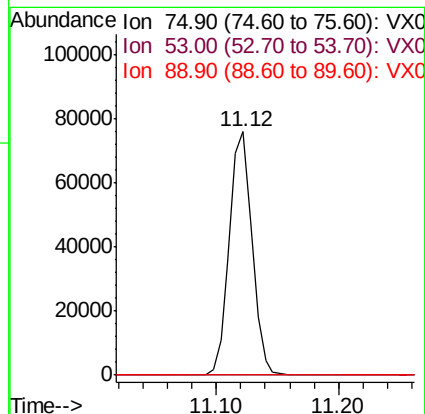
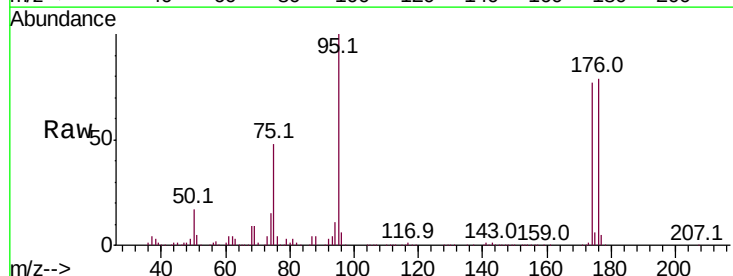
Tgt Ion: 75 Resp: 97334

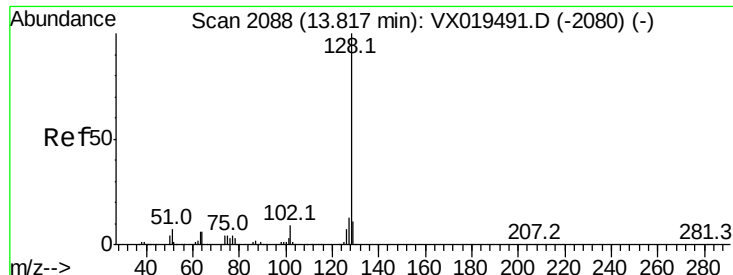
Ion Ratio Lower Upper

75 100

53 0.0 73.9 110.9#

89 0.0 37.3 55.9#





#95

Naphthalene

Concen: 2.191 ug/l

RT: 13.82 min Scan# 2089

Delta R.T. 0.01 min

Lab File: VX019559.D

Acq: 23 Nov 2020 18:36

Instrument :

MSVOA_X

ClientSampleId :

B3-GW

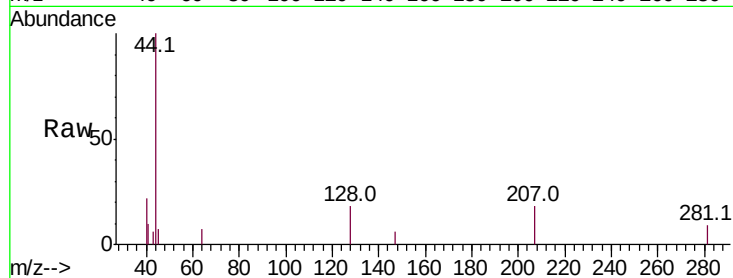
Tot Ion:128 Resp: 177

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.7 13.1#



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

