

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112320\
 Data File : VX019561.D
 Acq On : 23 Nov 2020 19:23
 Operator : JC/MD
 Sample : L4839-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 B5-GW

Quant Time: Nov 24 00:34:06 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	5.63	168	312651	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	503114	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	417361	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	174046	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	187640	46.29	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	92.58%
35) Dibromofluoromethane	5.46	113	150130	47.54	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	95.08%
50) Toluene-d8	8.70	98	575375	46.89	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	93.78%
62) 4-Bromofluorobenzene	11.12	95	191154	43.29	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	86.58%

Target Compounds

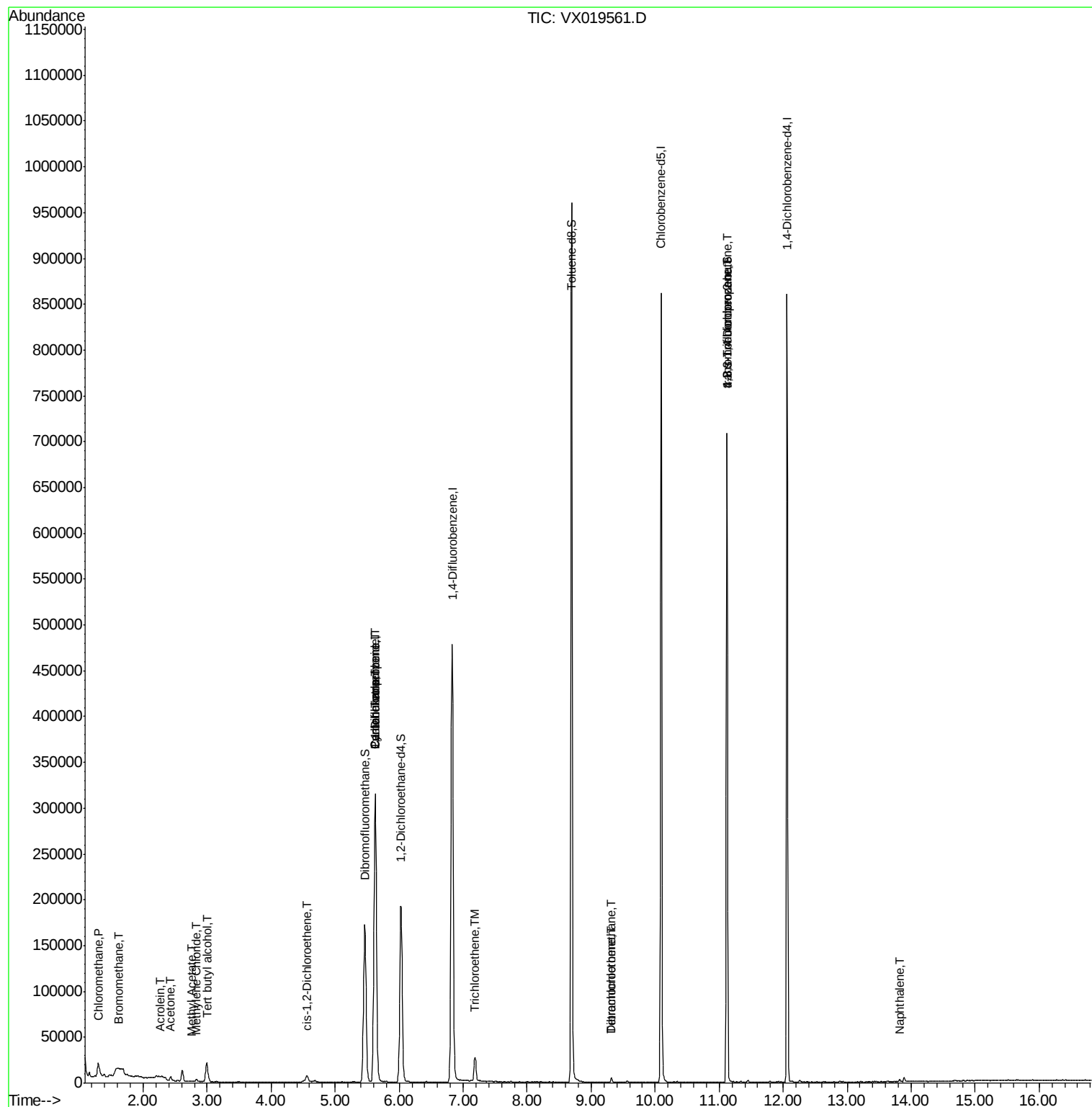
					Qvalue	
3) Chloromethane	1.31	50	810	0.232	ug/l #	88
5) Bromomethane	1.62	94	346	0.243	ug/l #	75
6) Chloroethane	1.67	64	99	Below Cal	#	41
11) Tert butyl alcohol	2.99	59	12949	16.879	ug/l #	76
13) Acrolein	2.28	56	159	0.308	ug/l #	9
16) Acetone	2.43	43	4435	2.829	ug/l	91
18) Methyl Acetate	2.75	43	982	0.887	ug/l #	88
20) Methylene Chloride	2.82	84	1171	0.299	ug/l #	88
27) cis-1,2-Dichloroethene	4.56	96	4535	1.123	ug/l	56
31) Cyclohexane	5.63	56	5812	1.102	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	22861	4.847	ug/l #	50
38) Carbon Tetrachloride	5.63	117	30037	6.579	ug/l #	16
44) Trichloroethene	7.18	130	10012	2.637	ug/l	99
60) Dibromochloromethane	9.32	129	826	0.234	ug/l #	10
64) Tetrachloroethene	9.32	164	967	0.295	ug/l	91
76) 1,2,3-Trichloropropane	11.12	75	94870	24.977	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	94870	65.983	ug/l #	12
95) Naphthalene	13.82	128	1767	2.310	ug/l	96

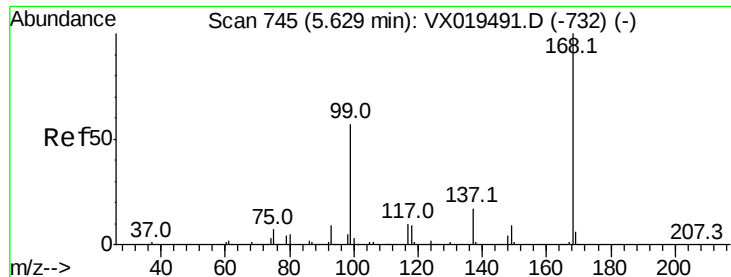
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX019561.D

Acq: 23 Nov 2020 19:23

Instrument :

MSVOA_X

ClientSampleId :

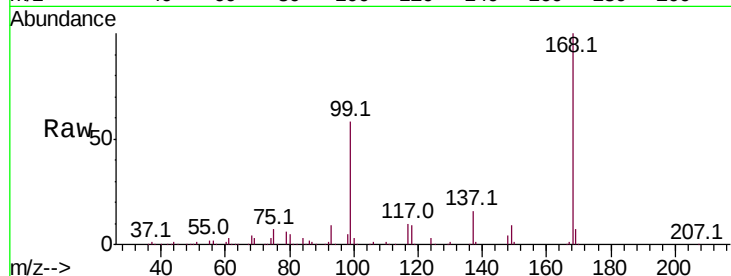
B5-GW

Tot Ion:168 Resp: 312651

Ion Ratio Lower Upper

168 100

99 57.8 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

120000

100000

80000

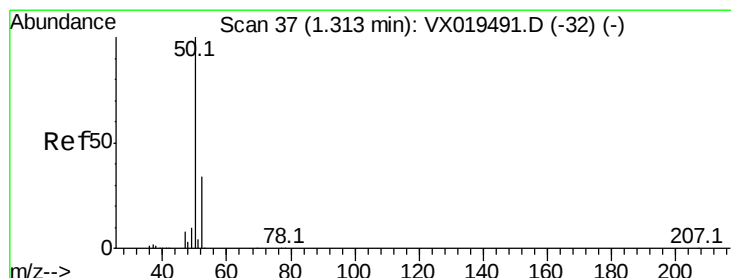
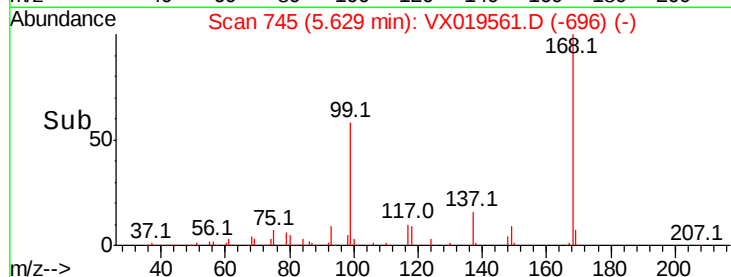
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.232 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX019561.D

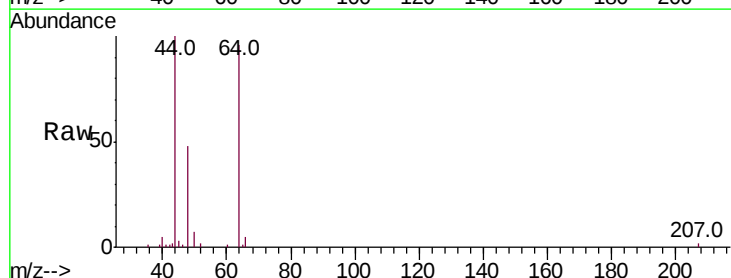
Acq: 23 Nov 2020 19:23

Tgt Ion: 50 Resp: 810

Ion Ratio Lower Upper

50 100

52 27.0 27.0 40.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

500

400

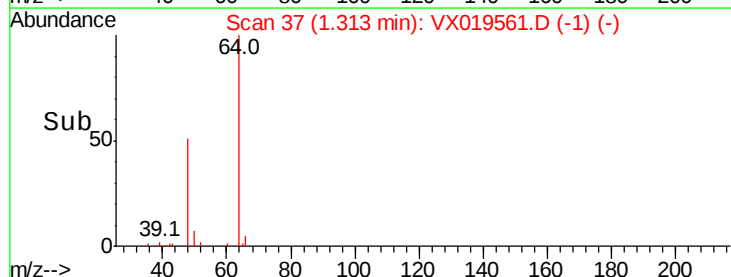
300

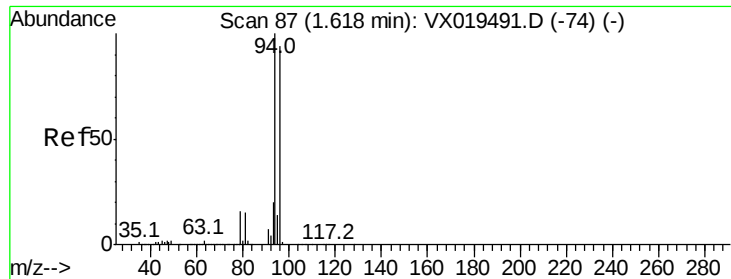
200

100

0

Time-->





#5

Bromomethane

Concen: 0.243 ug/l

RT: 1.62 min Scan# 87

Delta R.T. -0.00 min

Lab File: VX019561.D

Acq: 23 Nov 2020 19:23

Instrument :

MSVOA_X

ClientSampleId :

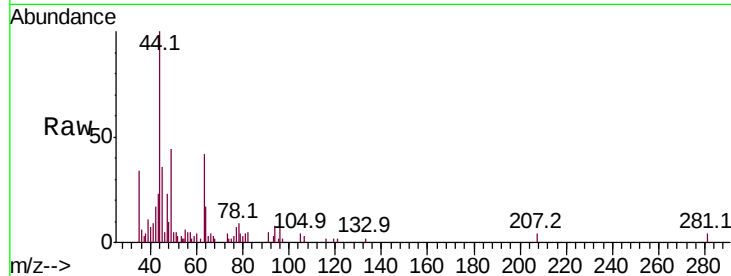
B5-GW

Tot Ion: 94 Resp: 346

Ion Ratio Lower Upper

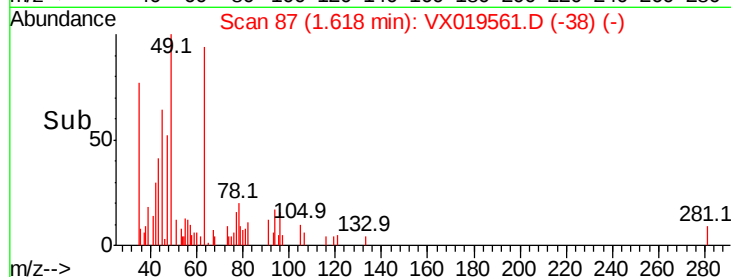
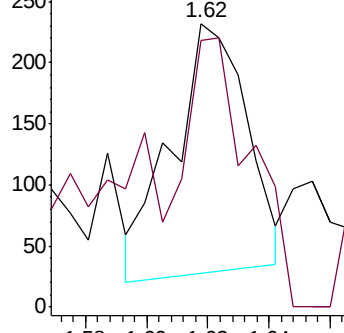
94 100

96 69.9 75.6 113.4#

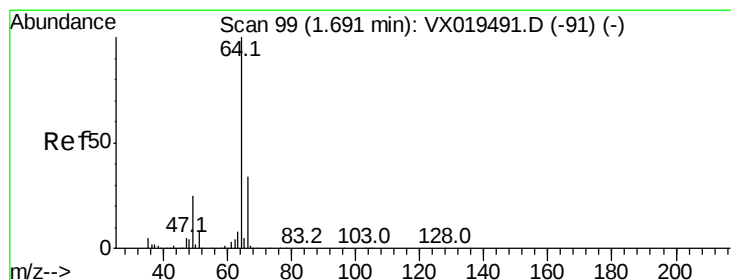


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.67 min Scan# 96

Delta R.T. -0.02 min

Lab File: VX019561.D

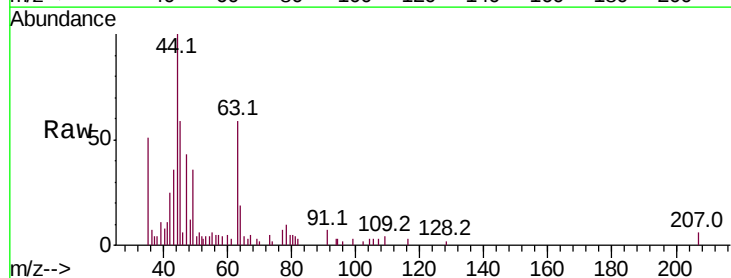
Acq: 23 Nov 2020 19:23

Tgt Ion: 64 Resp: 99

Ion Ratio Lower Upper

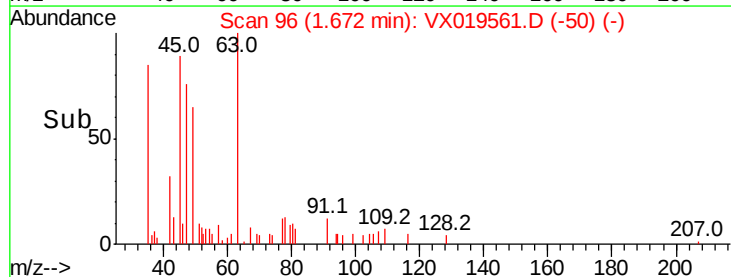
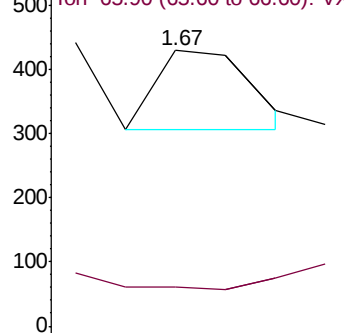
64 100

66 0.0 27.1 40.7#

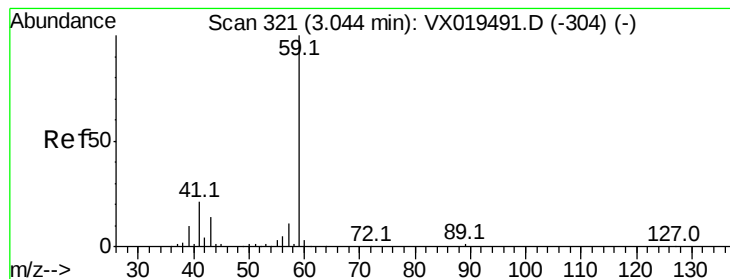


Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



Time-->



#11

Tert butyl alcohol

Concen: 16.879 ug/l

RT: 2.99 min Scan# 312

Delta R.T. -0.05 min

Lab File: VX019561.D

Acq: 23 Nov 2020 19:23

Instrument :

MSVOA_X

ClientSampleId :

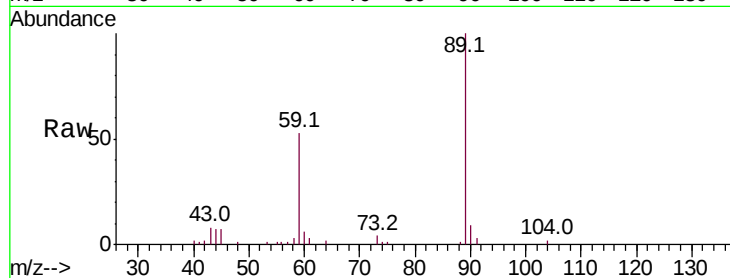
B5-GW

Tot Ion: 59 Resp: 12949

Ion Ratio Lower Upper

59 100

57 1.2 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

2.99

6000

5000

4000

3000

2000

1000

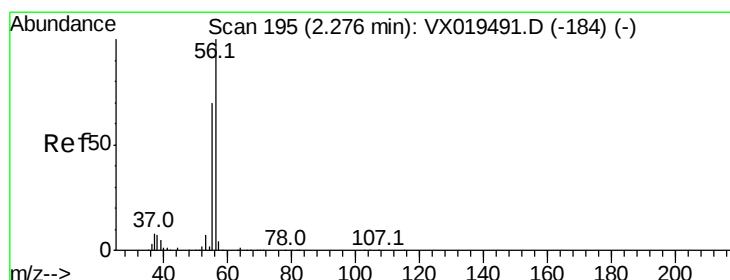
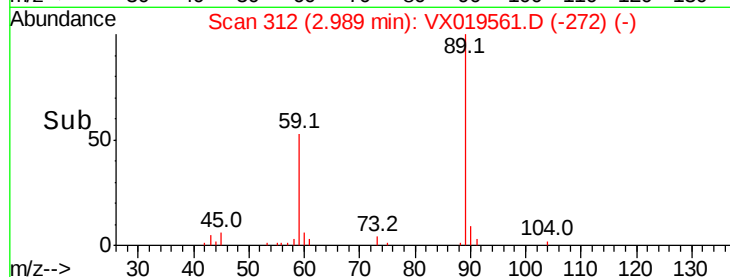
0

Time-->

2.90

3.00

3.10



#13

Acrolein

Concen: 0.308 ug/l

RT: 2.28 min Scan# 195

Delta R.T. -0.00 min

Lab File: VX019561.D

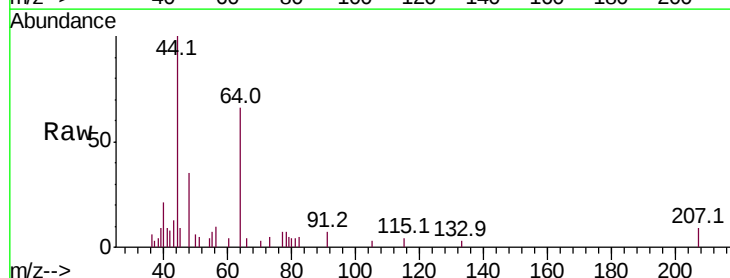
Acq: 23 Nov 2020 19:23

Tgt Ion: 56 Resp: 159

Ion Ratio Lower Upper

56 100

55 143.4 55.5 83.3#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

2.28

200

150

100

50

0

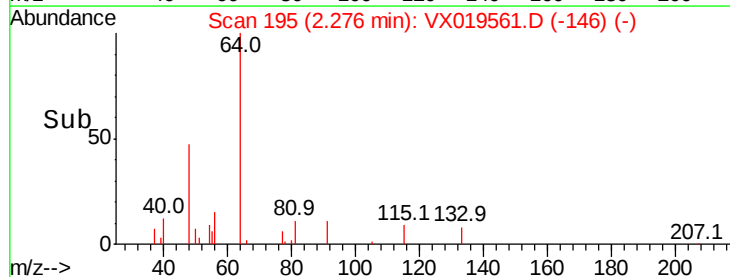
Time-->

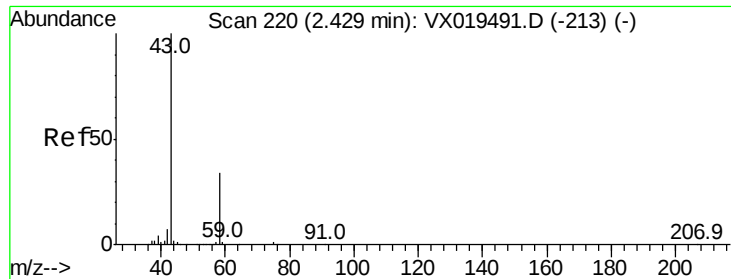
2.26

2.27

2.28

2.29





#16

Acetone

Concen: 2.829 ug/l

RT: 2.43 min Scan# 220

Delta R.T. -0.00 min

Lab File: VX019561.D

Acq: 23 Nov 2020 19:23

Instrument :

MSVOA_X

ClientSampleId :

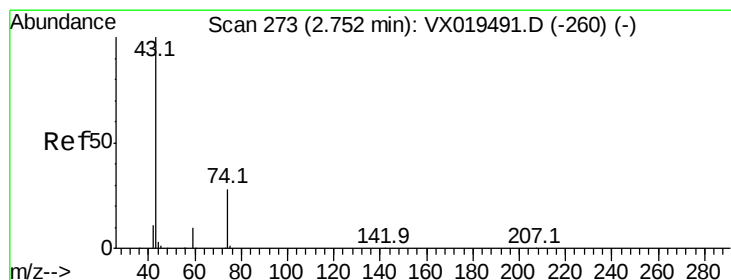
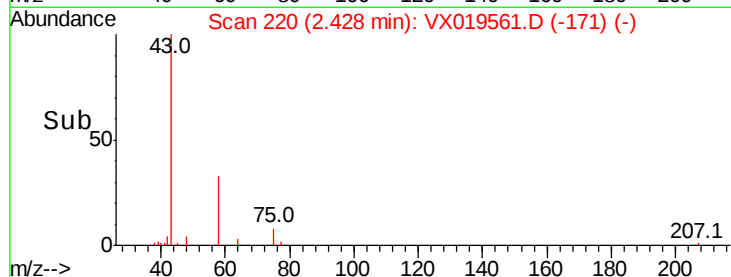
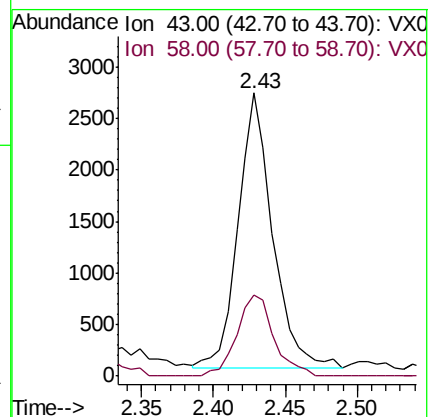
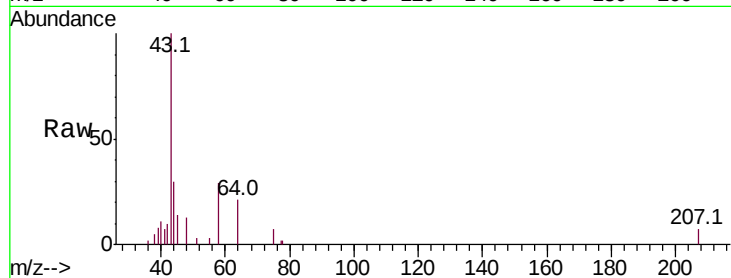
B5-GW

Tot Ion: 43 Resp: 4435

Ion Ratio Lower Upper

43 100

58 29.4 27.4 41.2



#18

Methyl Acetate

Concen: 0.887 ug/l

RT: 2.75 min Scan# 273

Delta R.T. 0.00 min

Lab File: VX019561.D

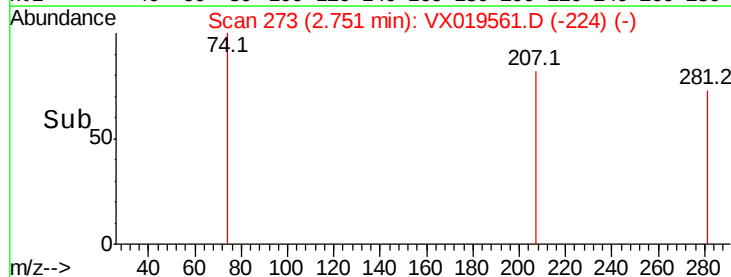
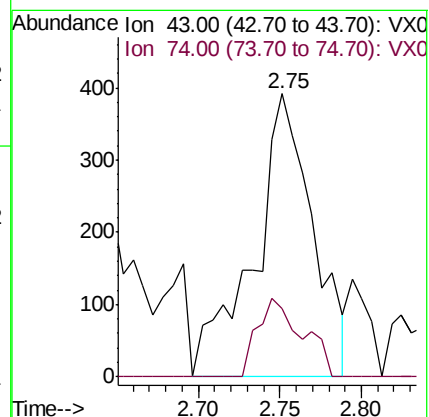
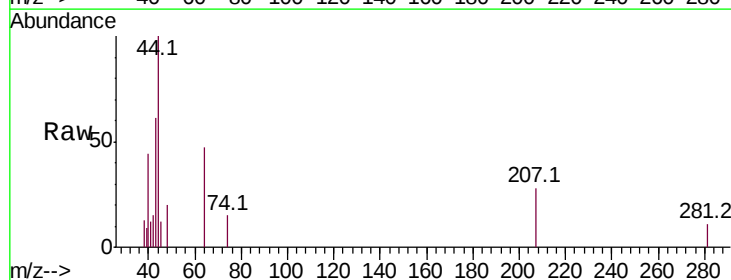
Acq: 23 Nov 2020 19:23

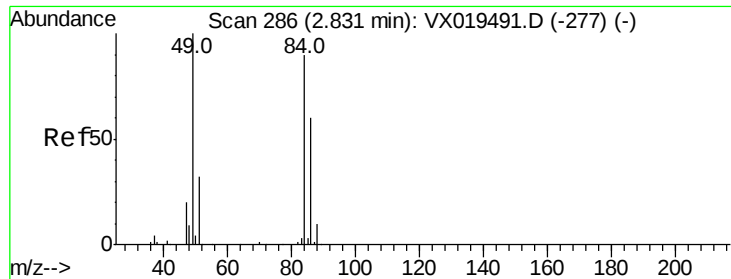
Tgt Ion: 43 Resp: 982

Ion Ratio Lower Upper

43 100

74 21.3 22.2 33.4#

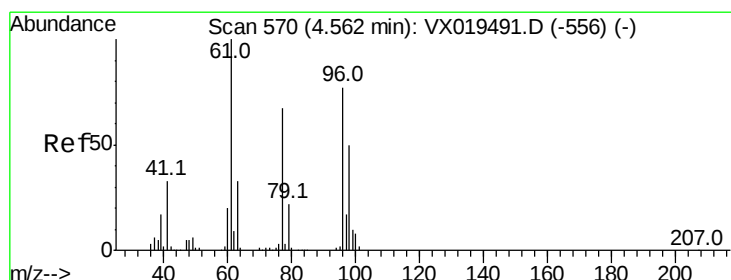
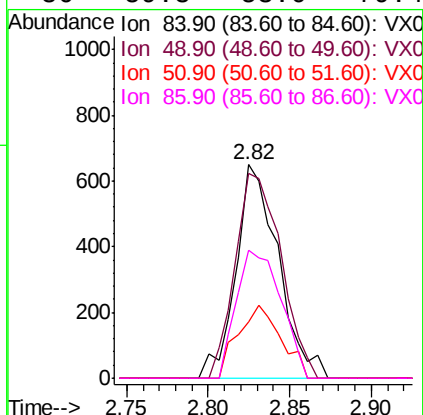
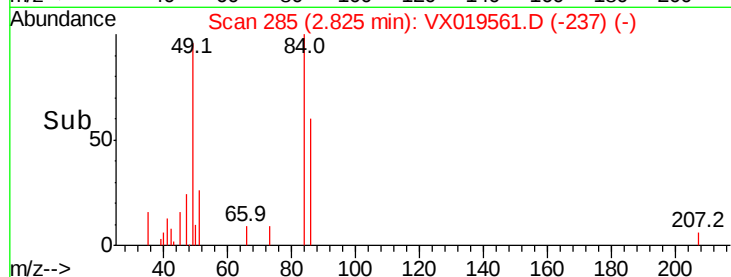
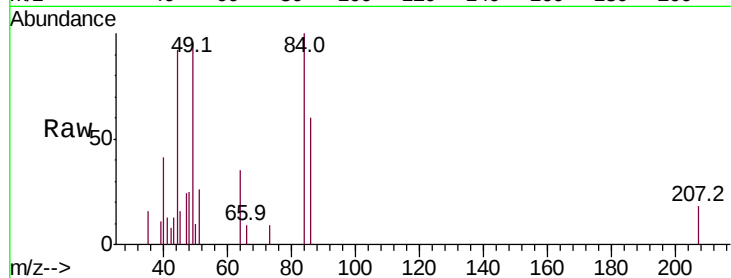




#20
Methvlene Chloride
Concen: 0.299 ug/l
RT: 2.82 min Scan# 285
Delta R.T. -0.01 min
Lab File: VX019561.D
Acq: 23 Nov 2020 19:23

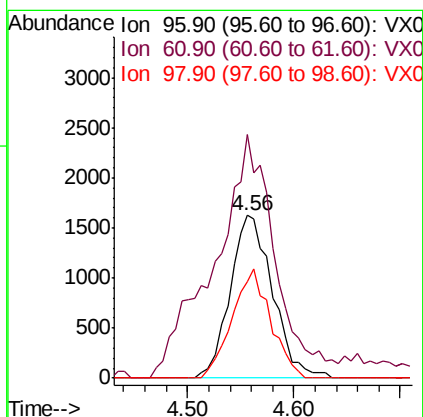
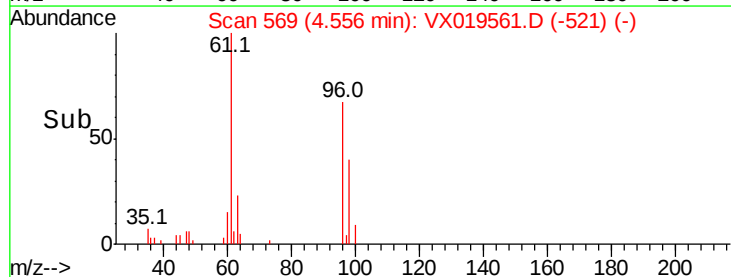
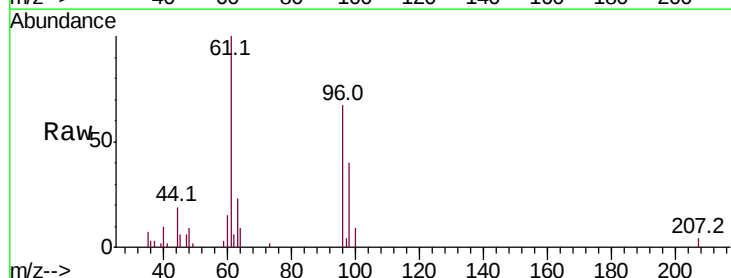
Instrument :
MSVOA_X
ClientSampleId :
B5-GW

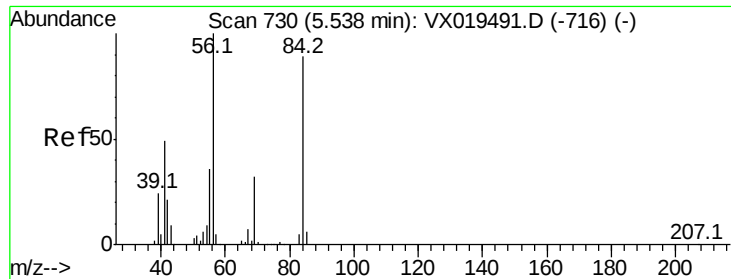
Tot Ion:	84	Resp:	1171
Ion	Ratio	Lower	Upper
84	100		
49	96.0	88.5	132.7
51	26.2	28.0	42.0#
86	59.8	53.0	79.4



#27
cis-1,2-Dichloroethene
Concen: 1.123 ug/l
RT: 4.56 min Scan# 569
Delta R.T. -0.01 min
Lab File: VX019561.D
Acq: 23 Nov 2020 19:23

Tgt Ion:	96	Resp:	4535
Ion	Ratio	Lower	Upper
96	100		
61	214.6	0.0	279.2
98	60.9	0.0	129.8

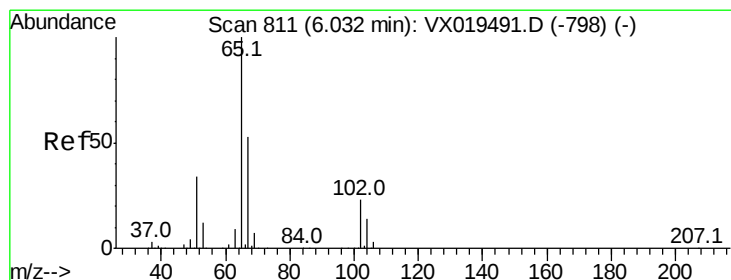
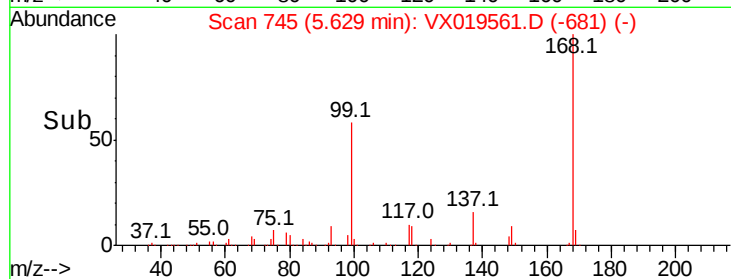
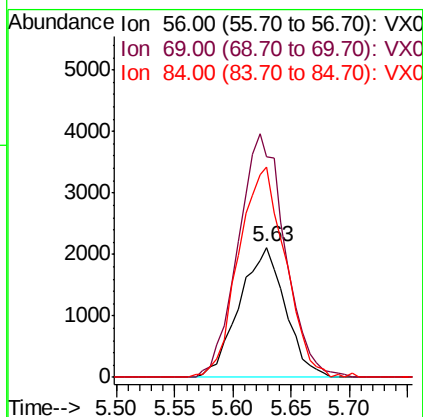
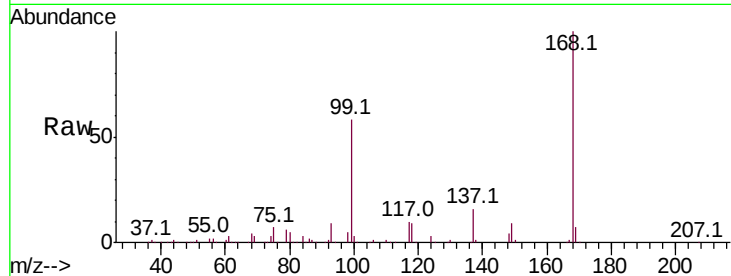




#31
Cyclohexane
Concen: 1.102 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.09 min
Lab File: VX019561.D
Acq: 23 Nov 2020 19:23

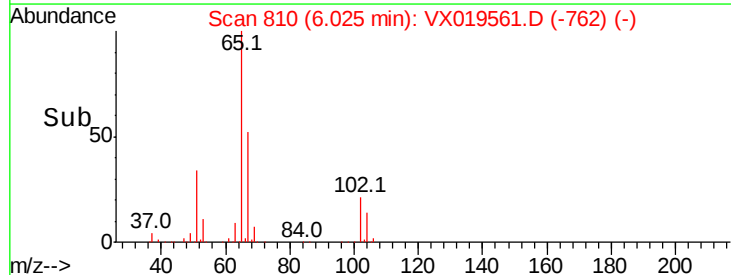
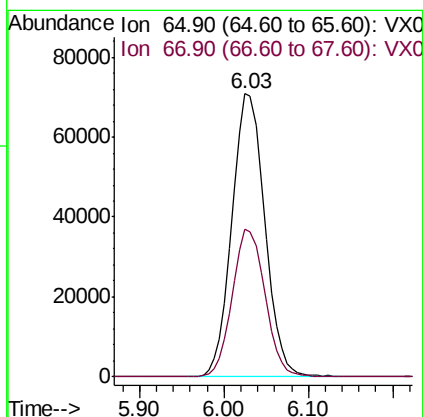
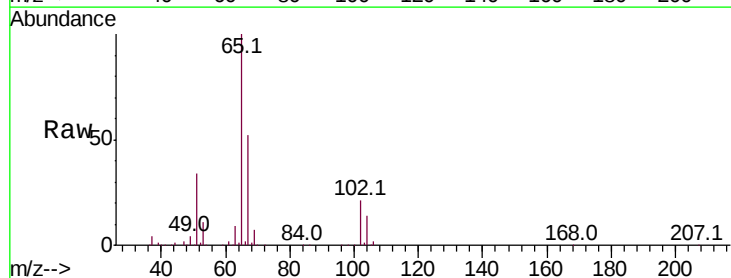
Instrument :
MSVOA_X
ClientSampled :
B5-GW

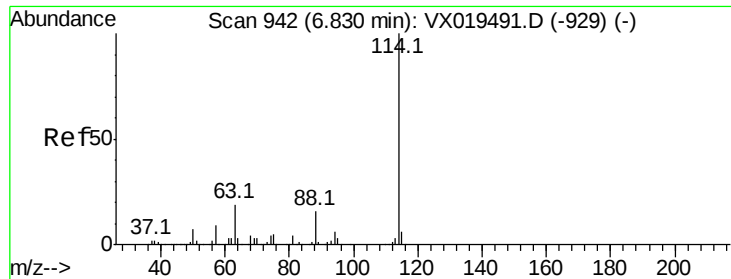
Tot Ion: 56 Resp: 5812
Ion Ratio Lower Upper
56 100
69 170.3 25.5 38.3#
84 162.5 71.1 106.7#



#33
1,2-Dichloroethane-d4
Concen: 46.288 ug/l
RT: 6.03 min Scan# 810
Delta R.T. -0.01 min
Lab File: VX019561.D
Acq: 23 Nov 2020 19:23

Tgt Ion: 65 Resp: 187640
Ion Ratio Lower Upper
65 100
67 51.9 0.0 105.0

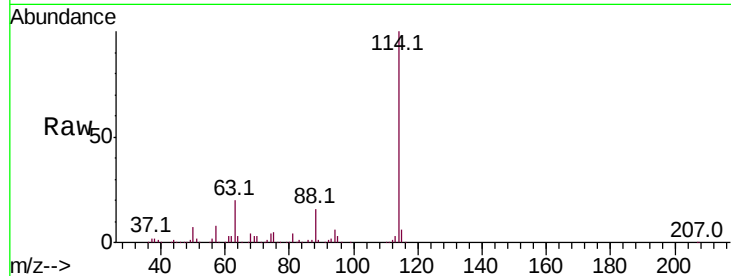




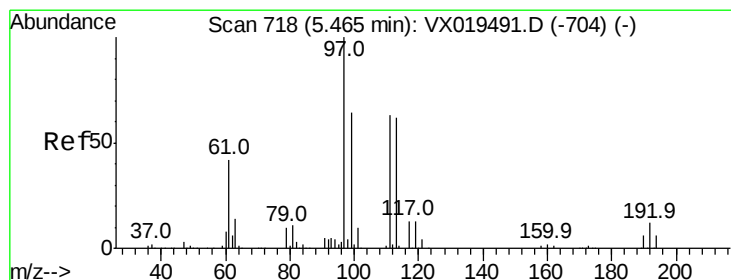
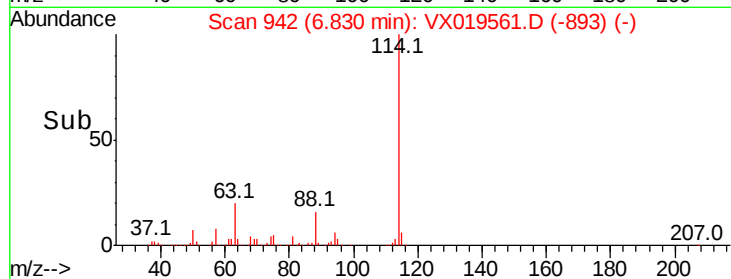
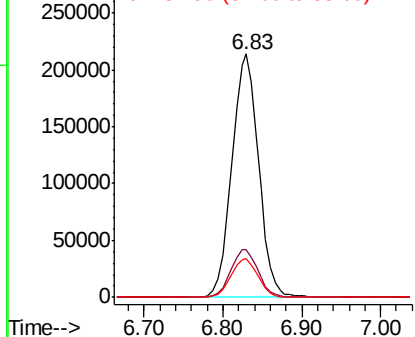
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.83 min Scan# 942
Delta R.T. -0.00 min
Lab File: VX019561.D
Acq: 23 Nov 2020 19:23

Instrument :
MSVOA_X
ClientSampled :
B5-GW

Tot Ion:114 Resp: 503114
Ion Ratio Lower Upper
114 100
63 19.8 0.0 38.8
88 16.1 0.0 31.6

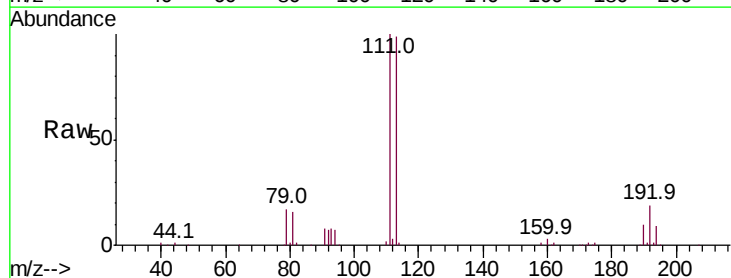


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

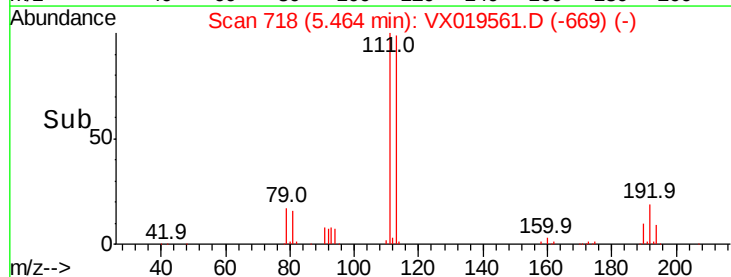
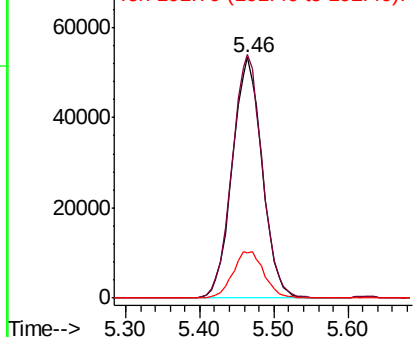


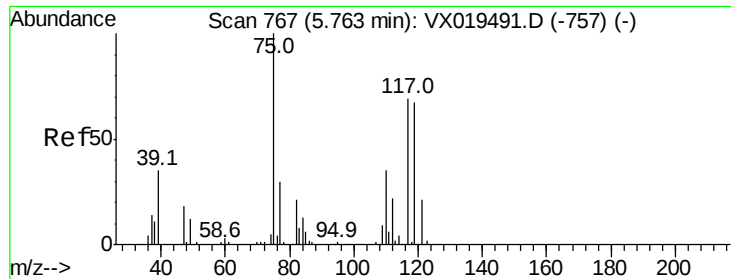
#35
Dibromofluoromethane
Concen: 47.539 ug/l
RT: 5.46 min Scan# 718
Delta R.T. -0.00 min
Lab File: VX019561.D
Acq: 23 Nov 2020 19:23

Tgt Ion:113 Resp: 150130
Ion Ratio Lower Upper
113 100
111 102.2 81.5 122.3
192 20.2 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: 4.847 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.14 min

Lab File: VX019561.D

Acq: 23 Nov 2020 19:23

Instrument :

MSVOA_X

ClientSampled :

B5-GW

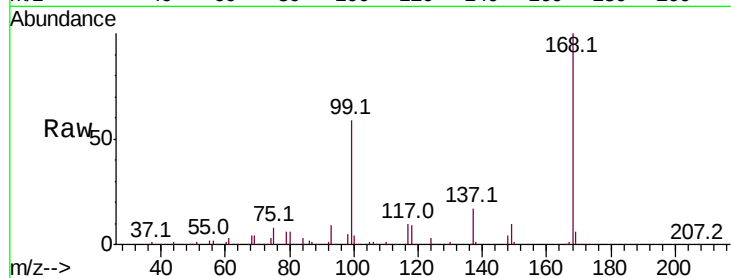
Tot Ion: 75 Resp: 22861

Ion Ratio Lower Upper

75 100

110 9.2 18.1 54.3#

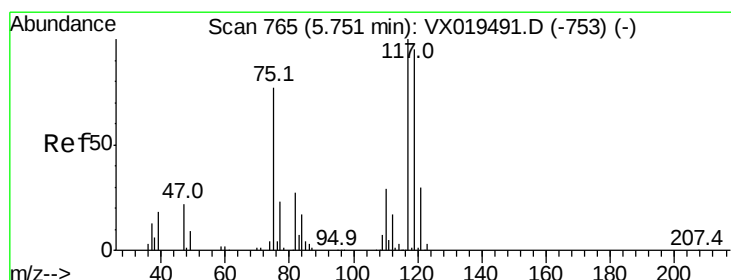
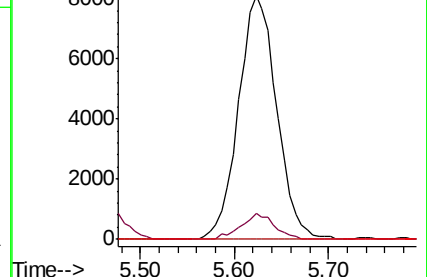
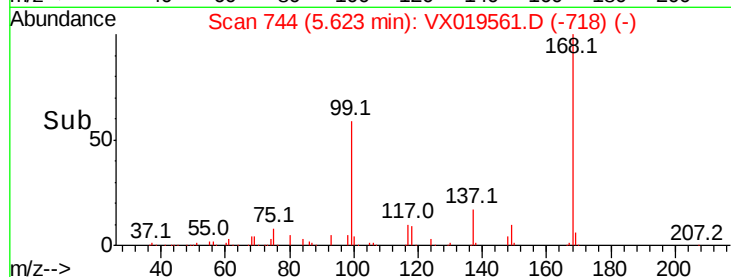
77 0.0 24.2 36.4#



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: 6.579 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019561.D

Acq: 23 Nov 2020 19:23

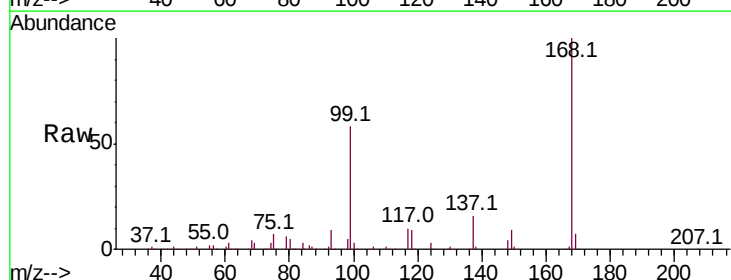
Tgt Ion: 117 Resp: 30037

Ion Ratio Lower Upper

117 100

119 4.8 75.9 113.9#

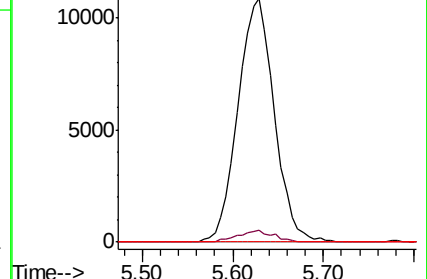
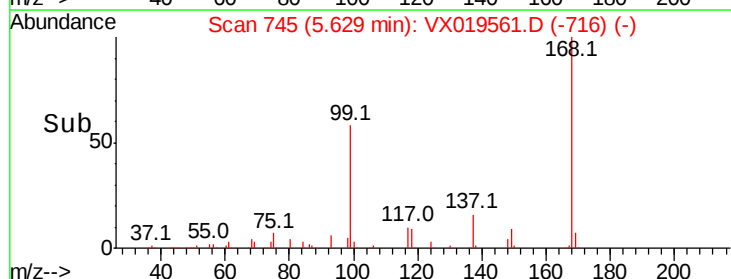
121 0.0 24.0 36.0#

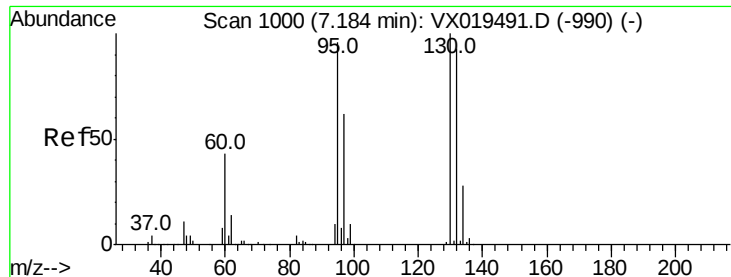


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 2.637 ug/l

RT: 7.18 min Scan# 1000

Delta R.T. -0.00 min

Lab File: VX019561.D

Acq: 23 Nov 2020 19:23

Instrument :

MSVOA_X

ClientSampled :

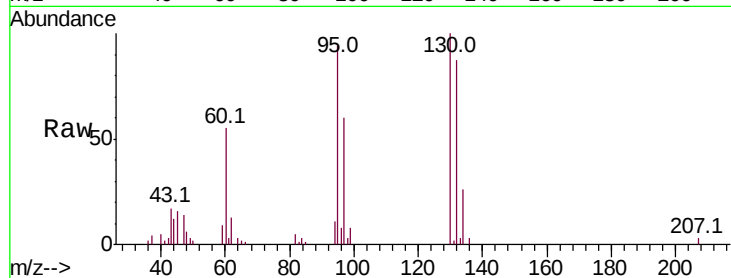
B5-GW

Tot Ion:130 Resp: 10012

Ion Ratio Lower Upper

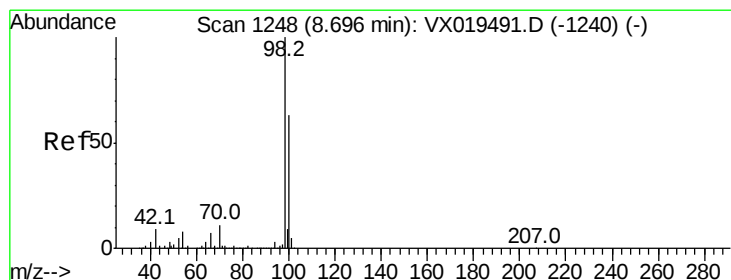
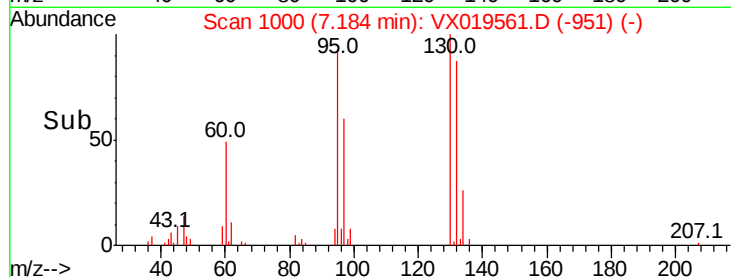
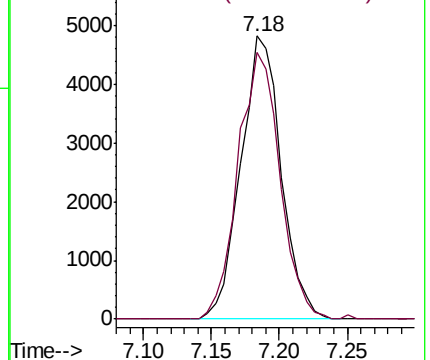
130 100

95 94.3 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: 46.886 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019561.D

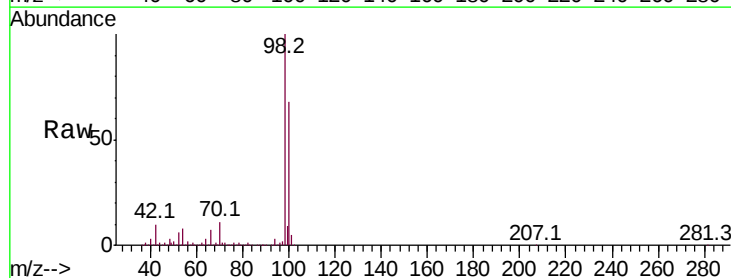
Acq: 23 Nov 2020 19:23

Tgt Ion: 98 Resp: 575375

Ion Ratio Lower Upper

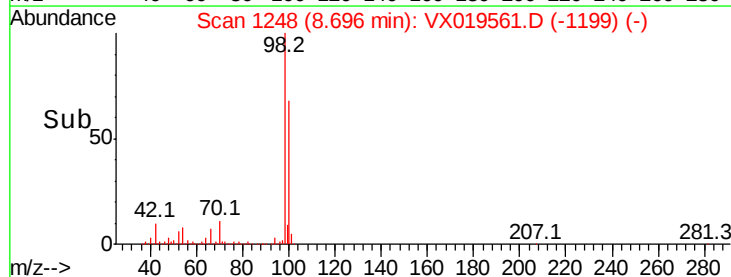
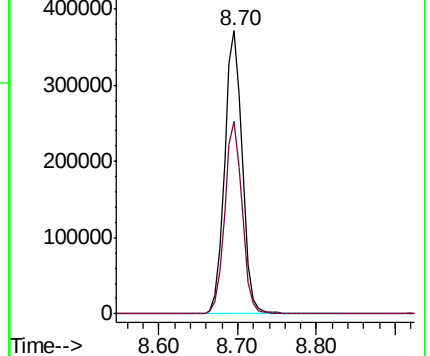
98 100

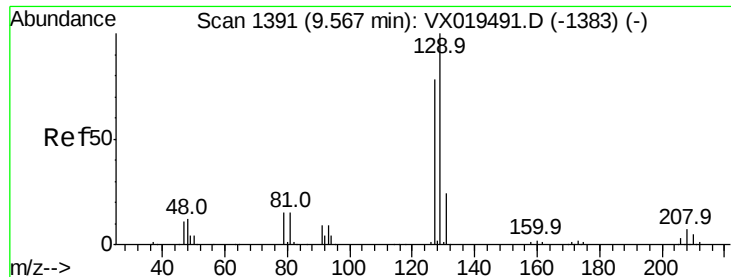
100 67.0 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#60

Dibromochloromethane

Concen: 0.234 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.25 min

Lab File: VX019561.D

Acq: 23 Nov 2020 19:23

Instrument :

MSVOA_X

ClientSampleId :

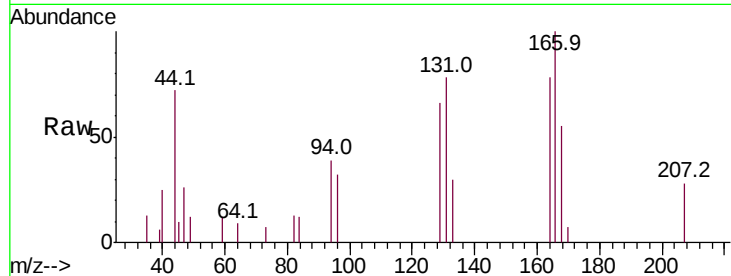
B5-GW

Tot Ion:129 Resp: 826

Ion Ratio Lower Upper

129 100

127 0.0 39.0 116.9#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

600

500

400

300

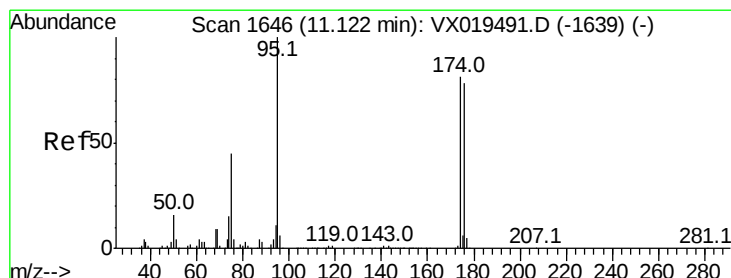
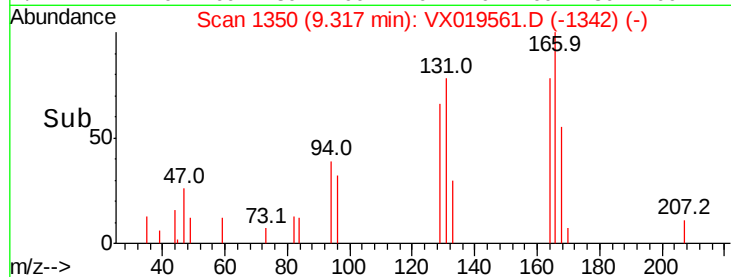
200

100

0

9.30 9.32 9.35

Time-->



#62

4-Bromofluorobenzene

Concen: 43.294 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019561.D

Acq: 23 Nov 2020 19:23

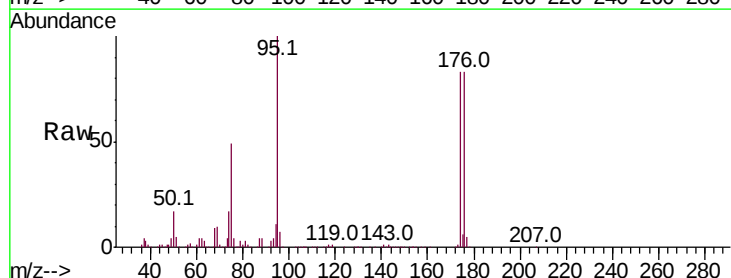
Tgt Ion: 95 Resp: 191154

Ion Ratio Lower Upper

95 100

174 78.6 0.0 156.2

176 78.5 0.0 151.4



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

200000

150000

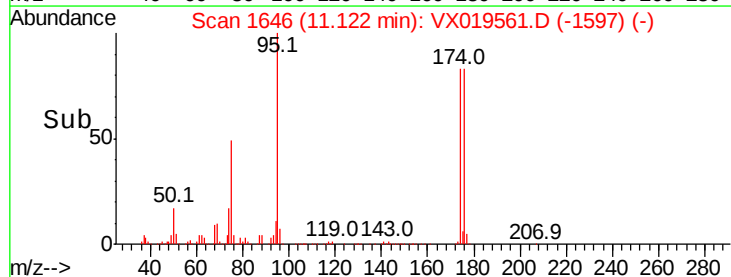
100000

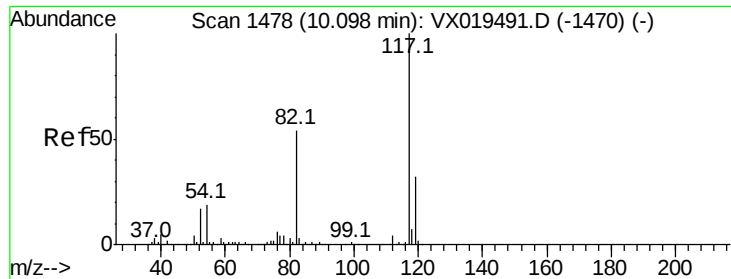
50000

0

11.00 11.10 11.20

Time-->





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX019561.D

Acq: 23 Nov 2020 19:23

Instrument :

MSVOA_X

ClientSampleId :

B5-GW

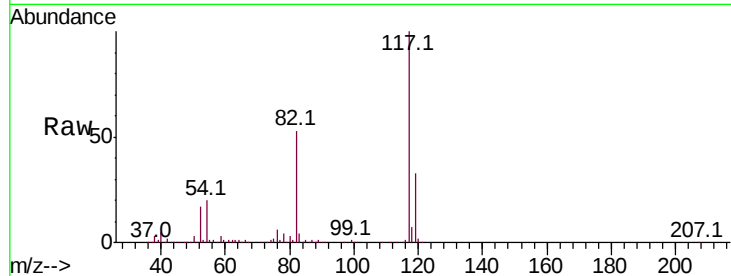
Tot Ion:117 Resp: 417361

Ion Ratio Lower Upper

117 100

82 53.3 43.0 64.4

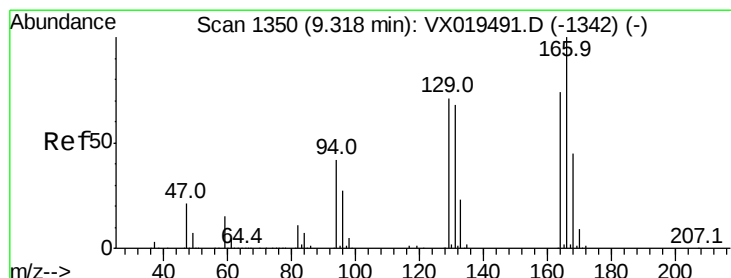
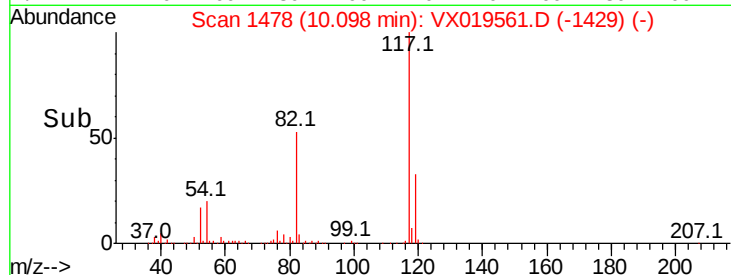
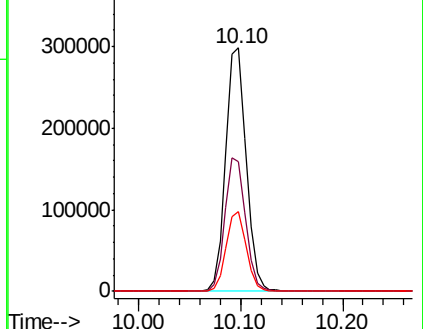
119 32.7 25.6 38.4



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: 0.295 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.00 min

Lab File: VX019561.D

Acq: 23 Nov 2020 19:23

Tgt Ion:164 Resp: 967

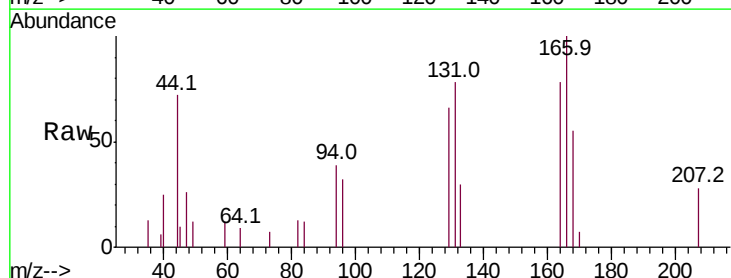
Ion Ratio Lower Upper

164 100

166 127.5 107.4 161.0

129 83.8 76.6 114.8

131 99.9 72.6 108.8

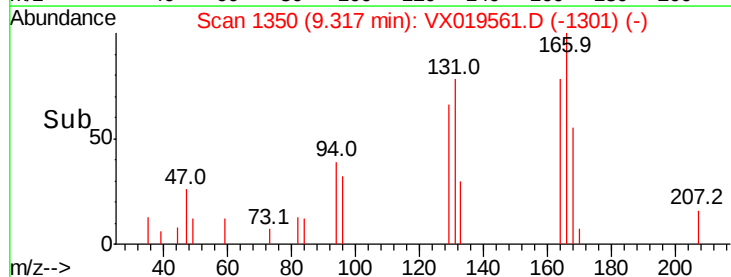
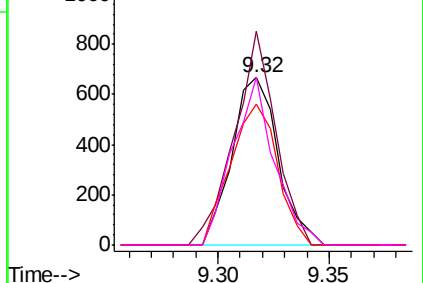


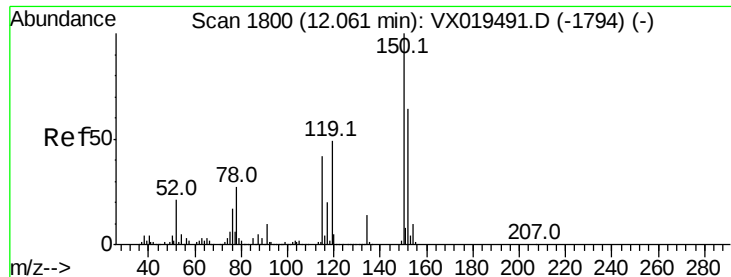
Abundance Ion 163.80 (163.50 to 164.50): V

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: VX019561.D

Acq: 23 Nov 2020 19:23

Instrument :

MSVOA_X

ClientSampleId :

B5-GW

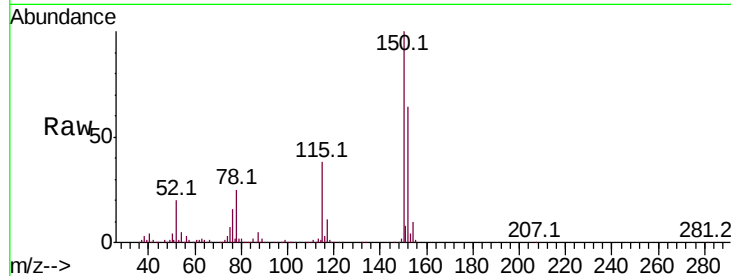
Tot Ion:152 Resp: 174046

Ion Ratio Lower Upper

152 100

115 60.3 41.8 125.4

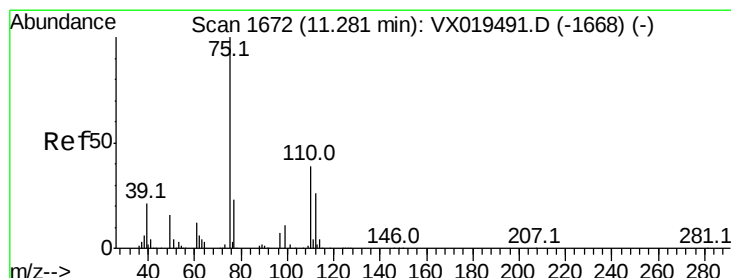
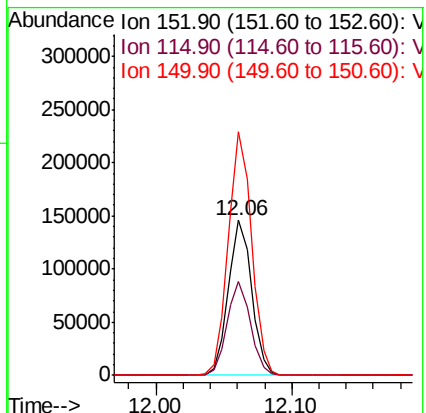
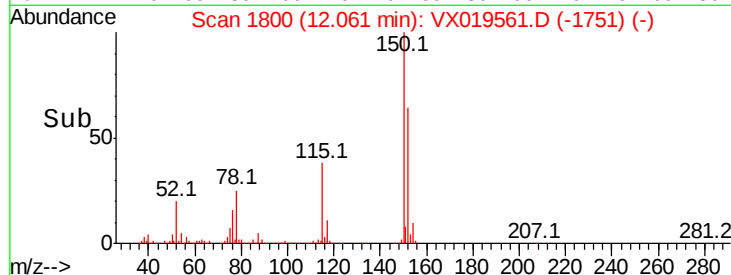
150 157.2 0.0 348.2



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: 24.977 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019561.D

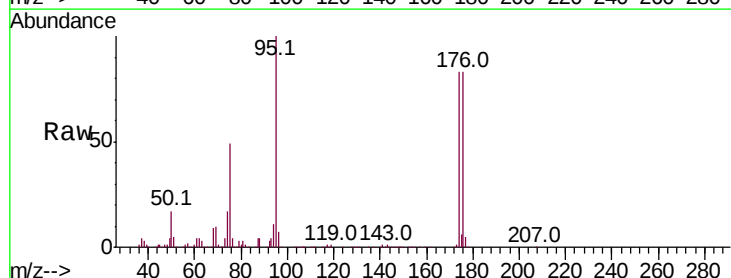
Acq: 23 Nov 2020 19:23

Tgt Ion: 75 Resp: 94870

Ion Ratio Lower Upper

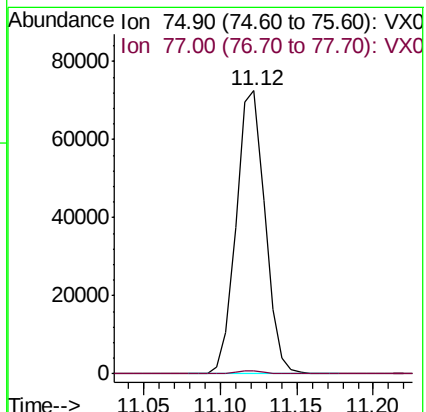
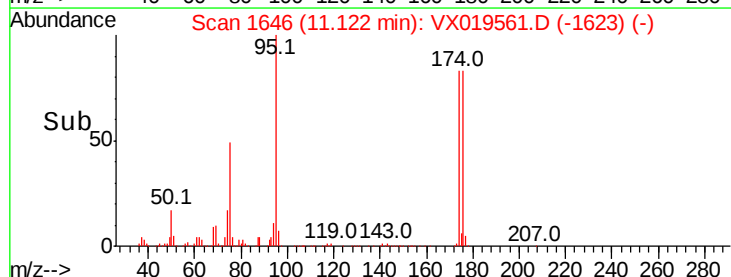
75 100

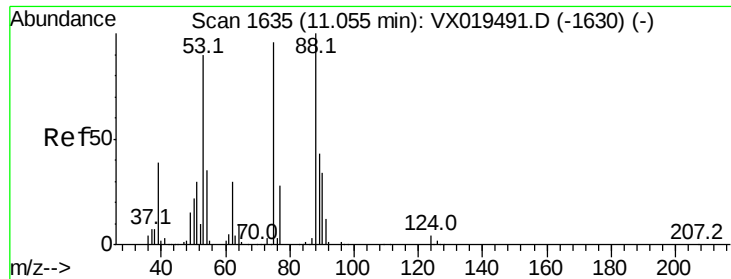
77 1.1 20.0 60.0#



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: 65.983 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019561.D

Acq: 23 Nov 2020 19:23

Instrument :

MSVOA_X

ClientSampled :

B5-GW

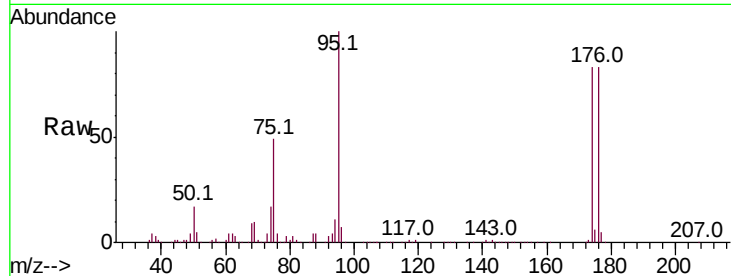
Tot Ion: 75 Resp: 94870

Ion Ratio Lower Upper

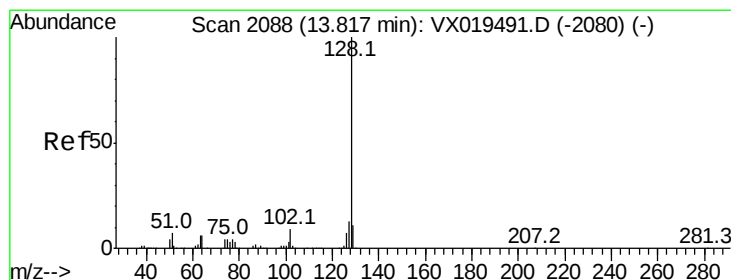
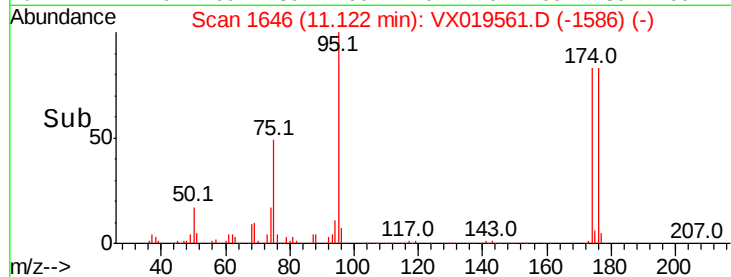
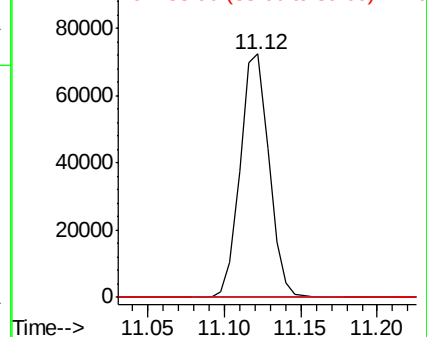
75 100

53 0.0 73.9 110.9#

89 0.0 37.3 55.9#



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



#95

Naphthalene

Concen: 2.310 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VX019561.D

Acq: 23 Nov 2020 19:23

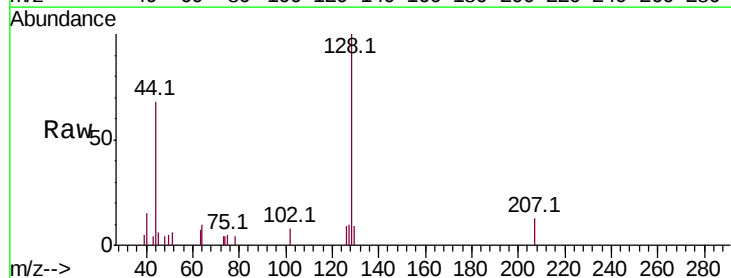
Tgt Ion: 128 Resp: 1767

Ion Ratio Lower Upper

128 100

127 10.7 10.3 15.5

129 10.4 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

