

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX073019\
 Data File : VX011231.D
 Acq On : 31 Jul 2019 06:08
 Operator : JC/SP
 Sample : K4045-03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 GW8-20190726

Quant Time: Jul 31 08:50:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 24 05:39:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	214143	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	309594	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	271040	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	127364	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	107983	47.40	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.80%	
35) Dibromofluoromethane	5.50	113	92156	46.90	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.80%	
50) Toluene-d8	8.71	98	359046	48.72	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.44%	
62) 4-Bromofluorobenzene	11.13	95	117344	43.32	ug/l	0.00
Spiked Amount 50.000			Recovery	=	86.64%	

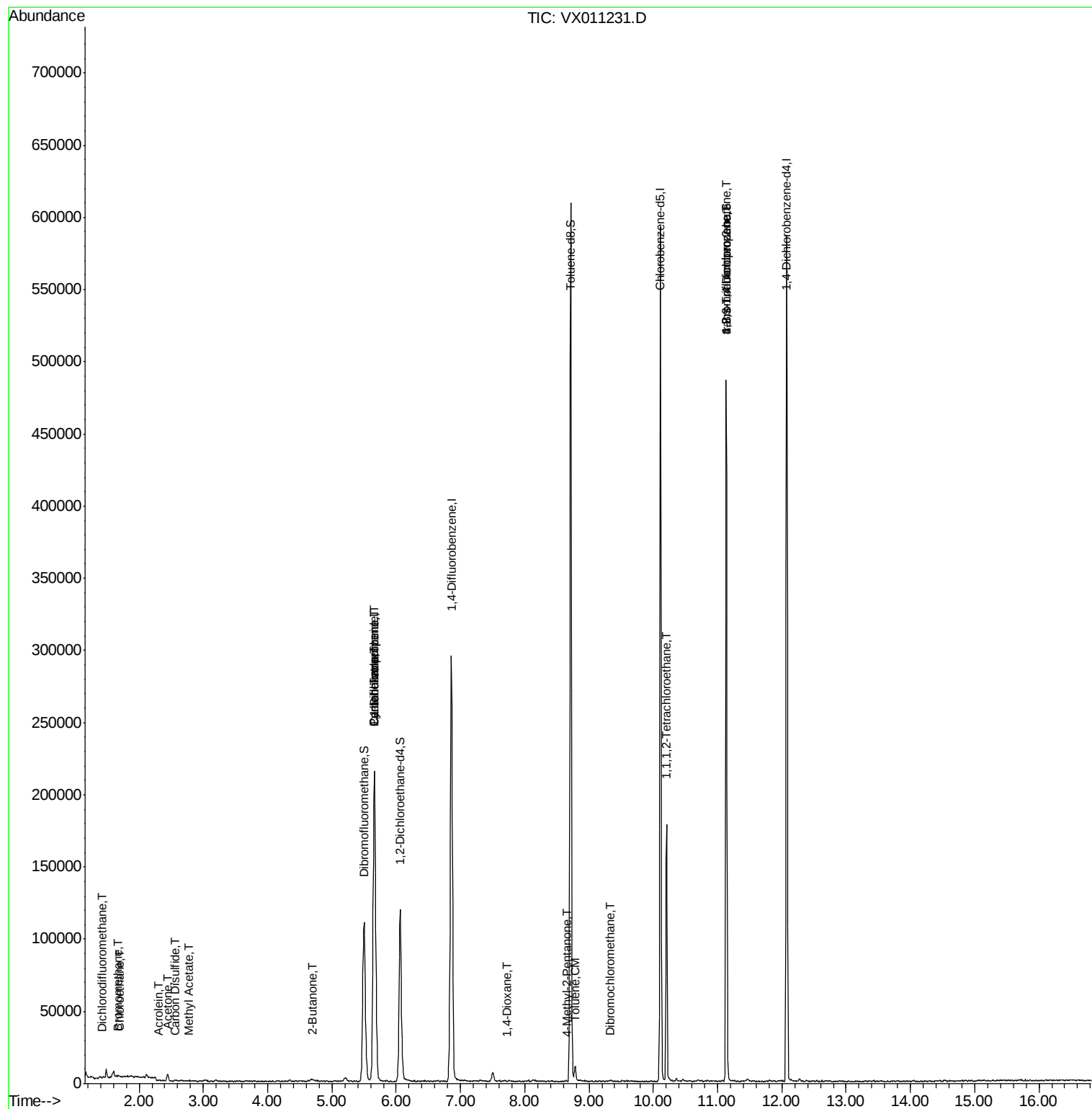
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.42	85	22	0.556	ug/l #	43
5) Bromomethane	1.67	94	368	0.325	ug/l #	78
6) Chloroethane	1.71	64	324	0.254	ug/l	98
13) Acrolein	2.30	56	288	0.940	ug/l #	27
16) Acetone	2.45	43	5291	5.142	ug/l	97
17) Carbon Disulfide	2.57	76	1025	0.209	ug/l #	75
18) Methyl Acetate	2.78	43	668	0.285	ug/l #	67
25) 2-Butanone	4.70	43	1813	1.227	ug/l #	63
31) Cyclohexane	5.66	56	4129	1.335	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	14083	5.538	ug/l #	50
38) Carbon Tetrachloride	5.66	117	20481	7.729	ug/l #	17
49) 1,4-Dioxane	7.73	88	22	0.377	ug/l #	1
51) 4-Methyl-2-Pentanone	8.66	43	657	0.237	ug/l #	35
52) Toluene	8.79	92	3380	0.660	ug/l	92
60) Dibromochloromethane	9.33	129	199	2.606	ug/l #	11
66) 1,1,1,2-Tetrachloroethane	10.21	131	982	0.502	ug/l #	32
76) 1,2,3-Trichloropropane	11.13	75	60976	26.530	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	60976	65.846	ug/l #	11

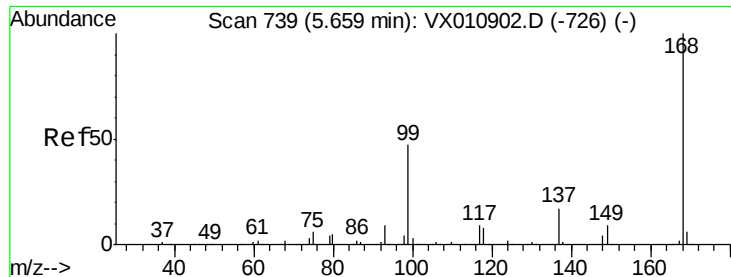
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jul 24 05:39:23 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX011231.D

Acq: 31 Jul 2019 06:08

Instrument :

MSVOA_X

ClientSampleId :

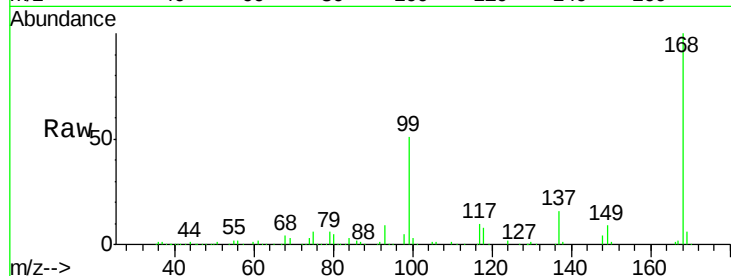
GW8-20190726

Tgt Ion:168 Resp: 214143

Ion Ratio Lower Upper

168 100

99 50.9 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

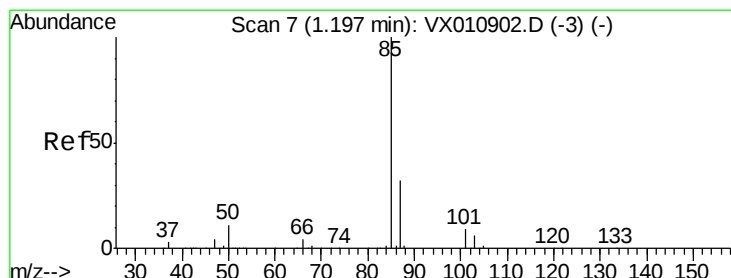
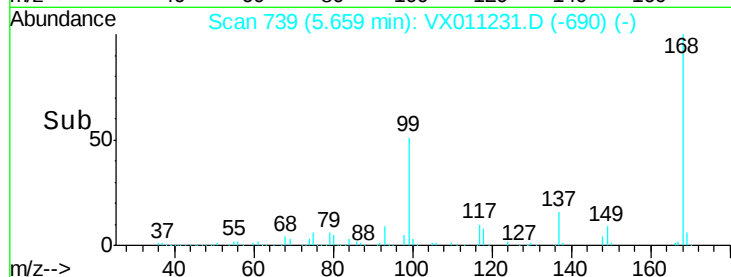
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.556 ug/l

RT: 1.42 min Scan# 44

Delta R.T. 0.23 min

Lab File: VX011231.D

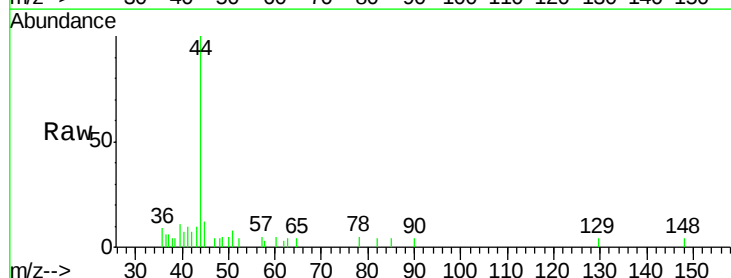
Acq: 31 Jul 2019 06:08

Tgt Ion: 85 Resp: 22

Ion Ratio Lower Upper

85 100

87 0.0 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.42

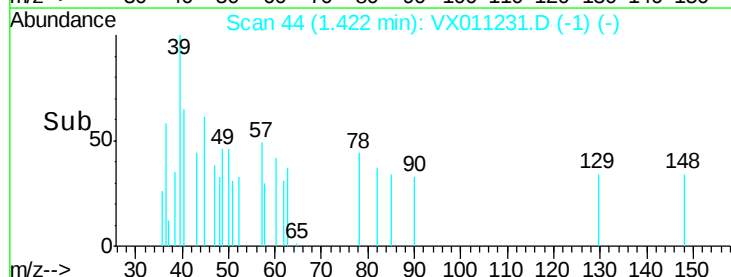
60

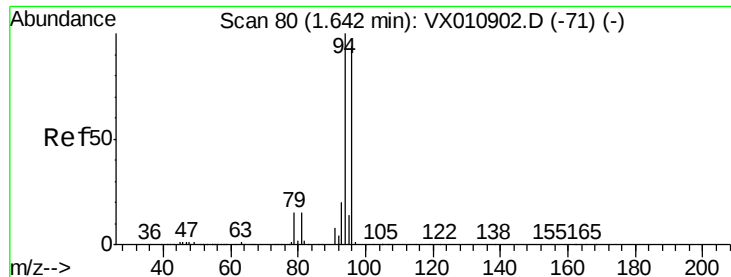
40

20

0

Time--> 1.40 1.41 1.42 1.43 1.44





#5

Bromomethane

Concen: 0.325 ug/l

RT: 1.67 min Scan# 84

Delta R.T. 0.02 min

Lab File: VX011231.D

Acq: 31 Jul 2019 06:08

Instrument :

MSVOA_X

ClientSampleId :

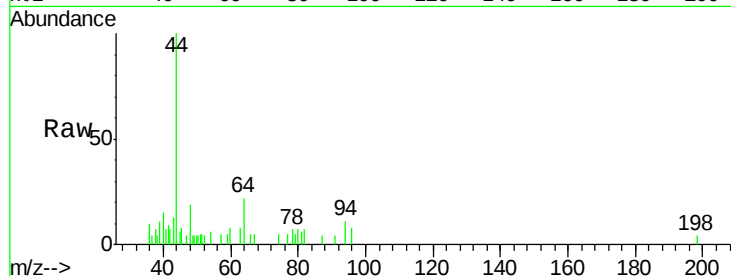
GW8-20190726

Tgt Ion: 94 Resp: 368

Ion Ratio Lower Upper

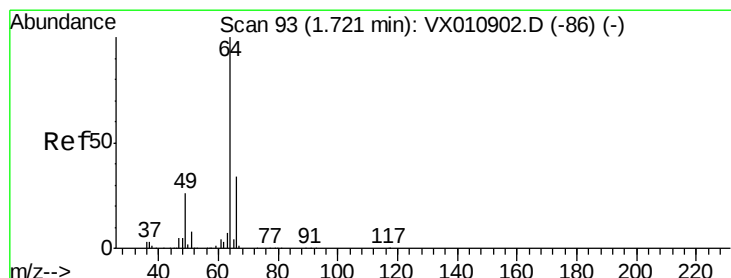
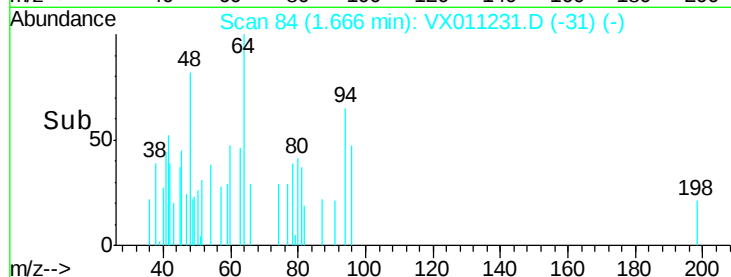
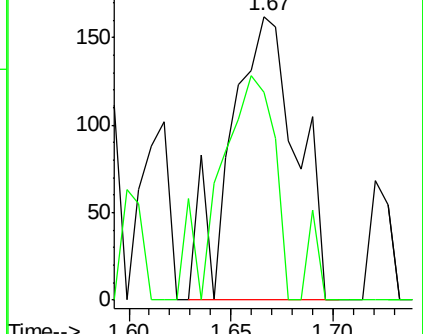
94 100

96 73.5 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: 0.254 ug/l

RT: 1.71 min Scan# 91

Delta R.T. -0.01 min

Lab File: VX011231.D

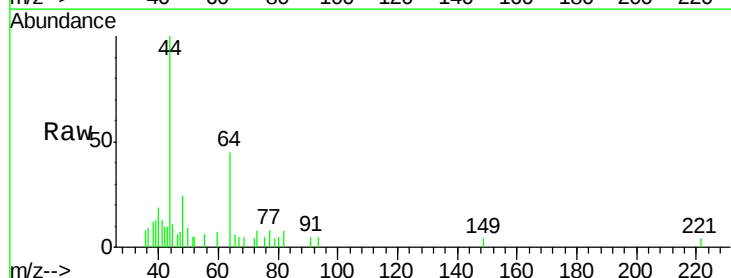
Acq: 31 Jul 2019 06:08

Tgt Ion: 64 Resp: 324

Ion Ratio Lower Upper

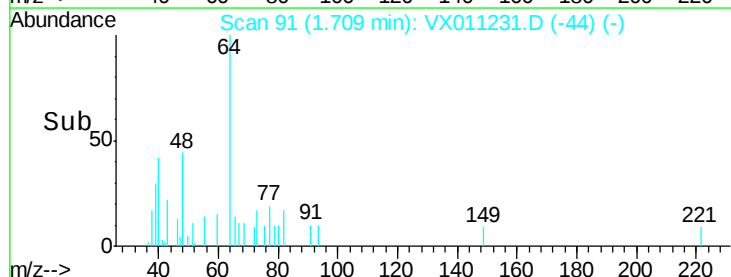
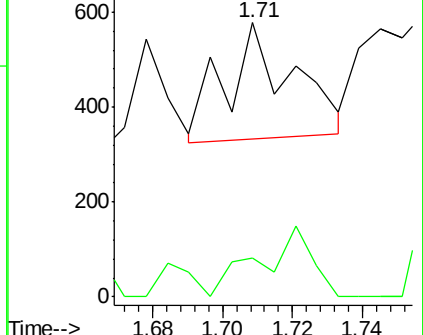
64 100

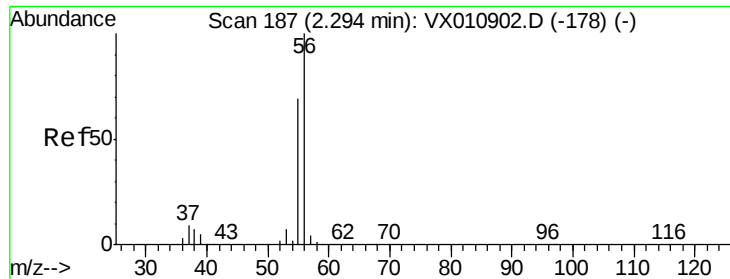
66 35.0 27.0 40.6



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#13

Acrolein

Concen: 0.940 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX011231.D

Acq: 31 Jul 2019 06:08

Instrument :

MSVOA_X

ClientSampleId :

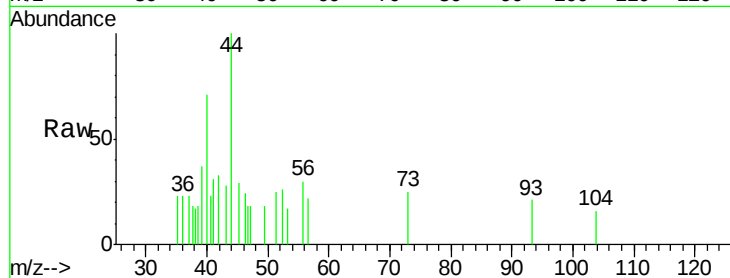
GW8-20190726

Tgt Ion: 56 Resp: 288

Ion Ratio Lower Upper

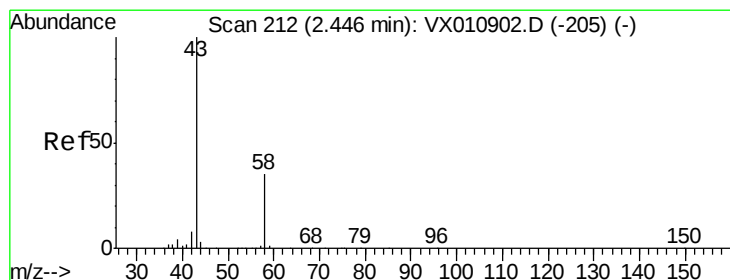
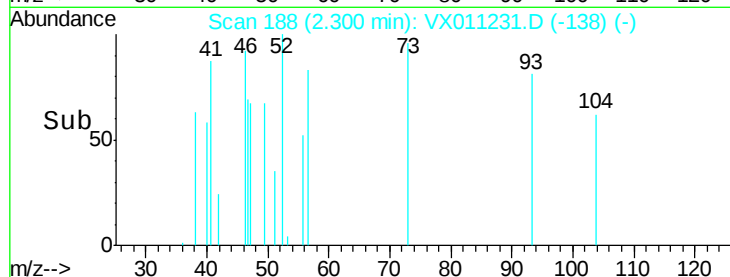
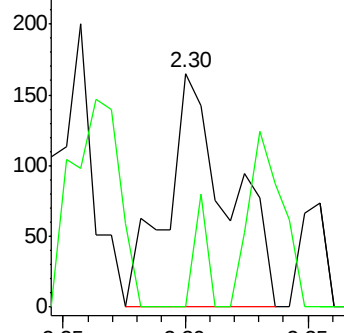
56 100

55 10.1 55.9 83.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 5.142 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX011231.D

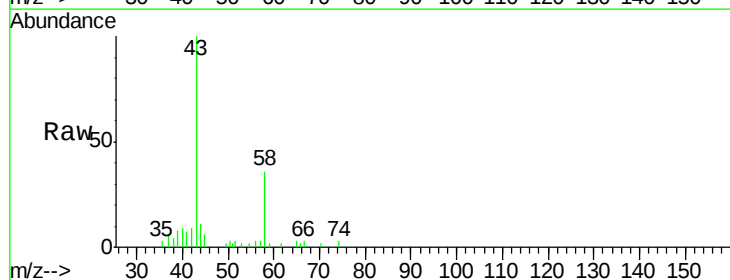
Acq: 31 Jul 2019 06:08

Tgt Ion: 43 Resp: 5291

Ion Ratio Lower Upper

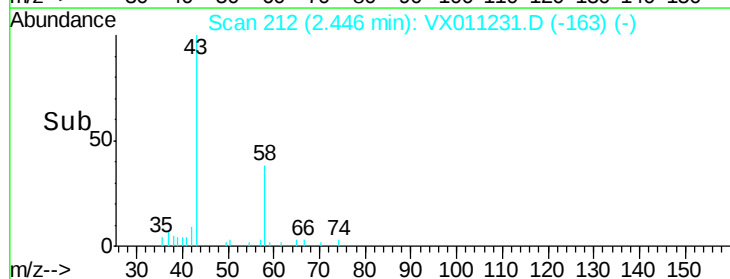
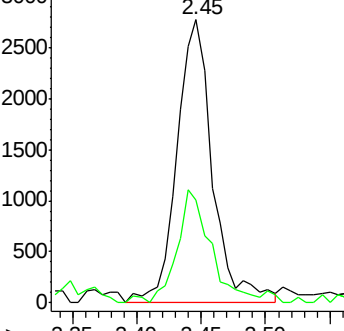
43 100

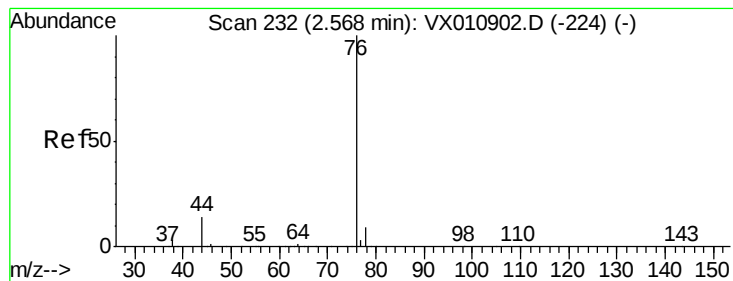
58 36.2 27.7 41.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.209 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.00 min

Lab File: VX011231.D

Acq: 31 Jul 2019 06:08

Instrument :

MSVOA_X

ClientSampleId :

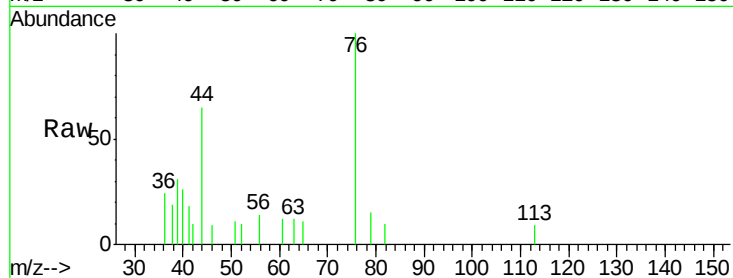
GW8-20190726

Tgt Ion: 76 Resp: 1025

Ion Ratio Lower Upper

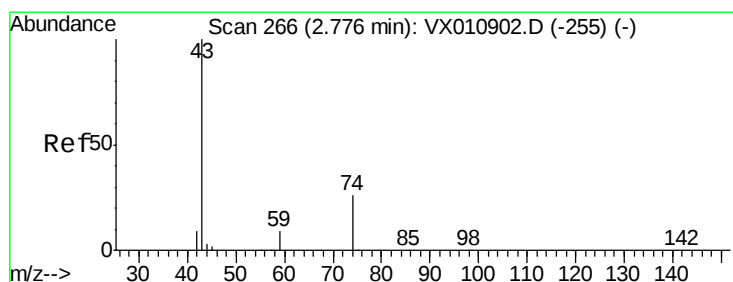
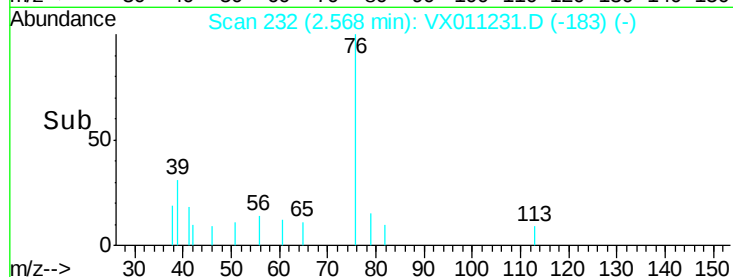
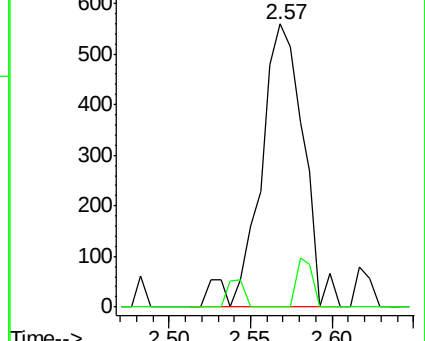
76 100

78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 0.285 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.00 min

Lab File: VX011231.D

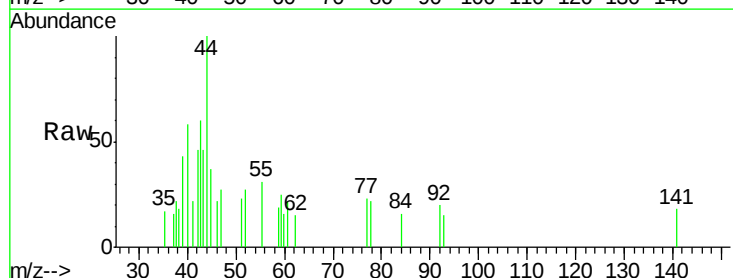
Acq: 31 Jul 2019 06:08

Tgt Ion: 43 Resp: 668

Ion Ratio Lower Upper

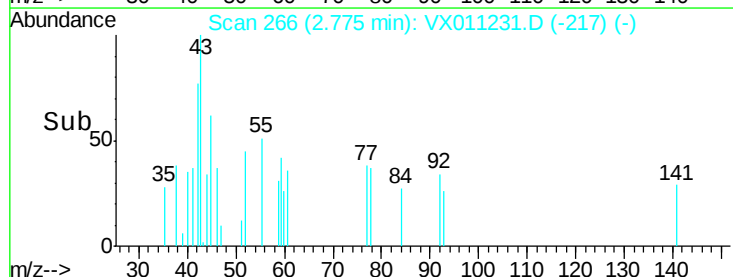
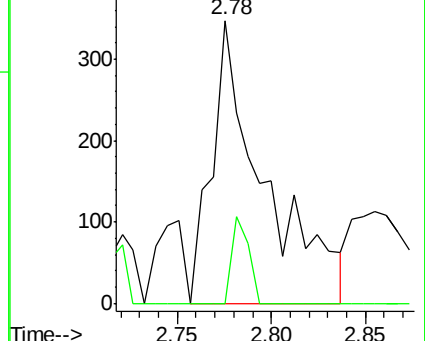
43 100

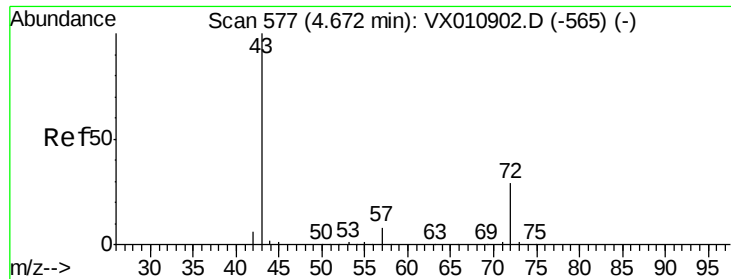
74 9.9 21.5 32.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#25

2-Butanone

Concen: 1.227 ug/l

RT: 4.70 min Scan# 581

Delta R.T. 0.02 min

Lab File: VX011231.D

Acq: 31 Jul 2019 06:08

Instrument :

MSVOA_X

ClientSampleId :

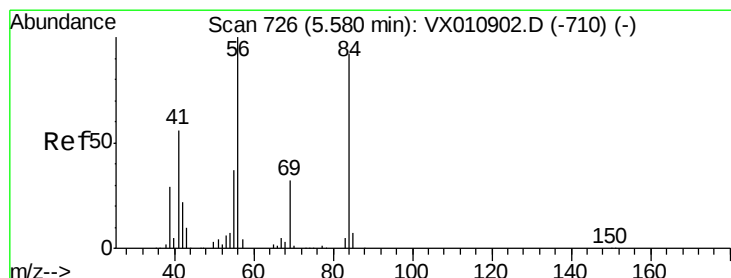
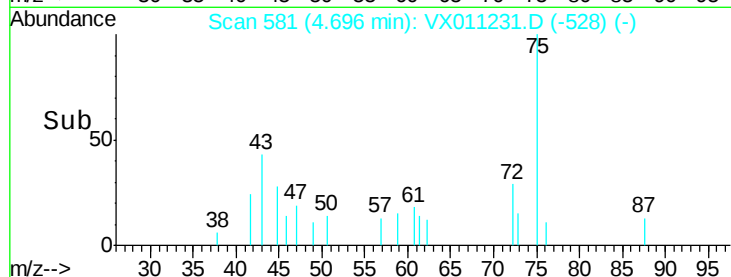
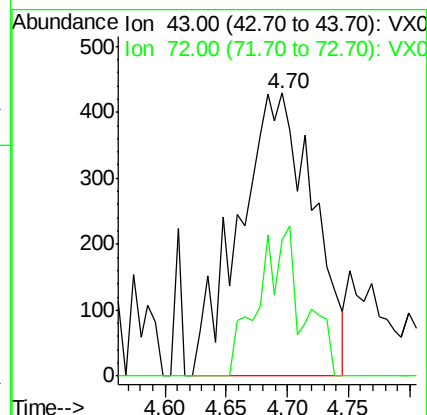
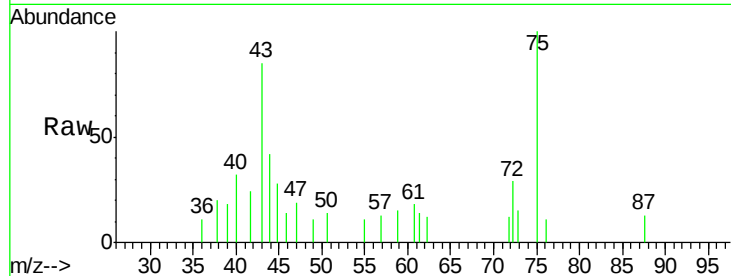
GW8-20190726

Tgt Ion: 43 Resp: 1813

Ion Ratio Lower Upper

43 100

72 48.3 23.0 34.6#



#31

Cyclohexane

Concen: 1.335 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX011231.D

Acq: 31 Jul 2019 06:08

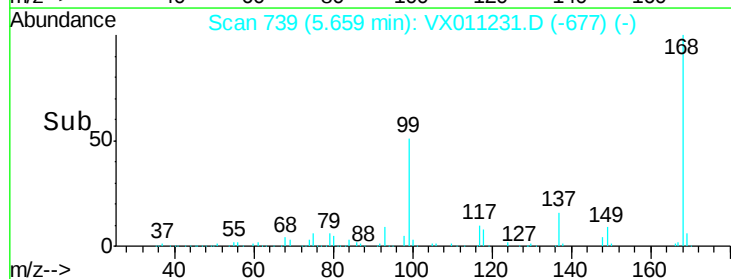
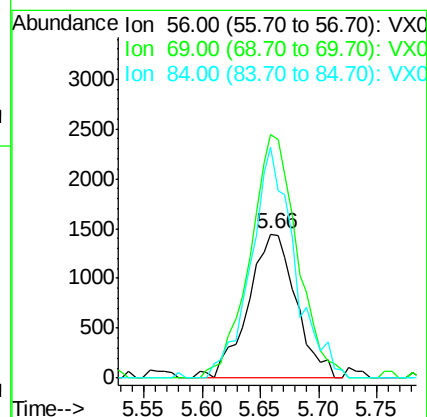
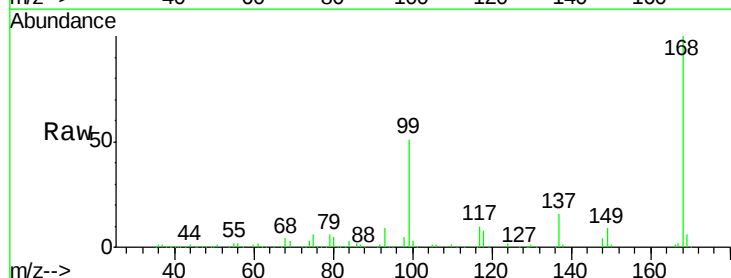
Tgt Ion: 56 Resp: 4129

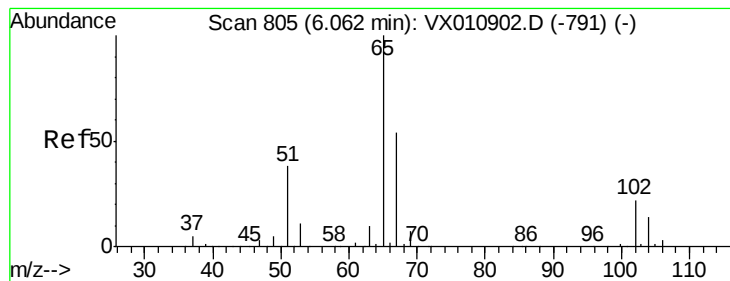
Ion Ratio Lower Upper

56 100

69 168.6 25.8 38.8#

84 160.0 73.8 110.6#





#33

1,2-Dichloroethane-d4

Concen: 47.399 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX011231.D

Acq: 31 Jul 2019 06:08

Instrument :

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ClientSampleId :

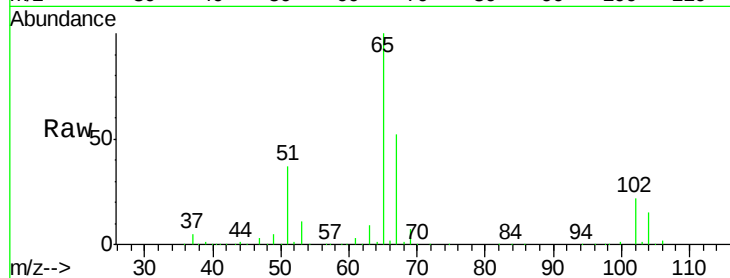
GW8-20190726

Tgt Ion: 65 Resp: 107983

Ion Ratio Lower Upper

65 100

67 53.0 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

40000

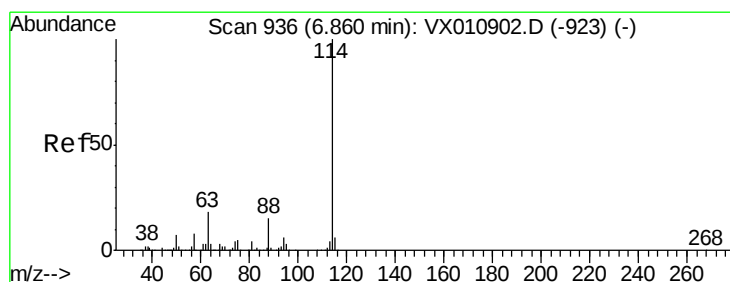
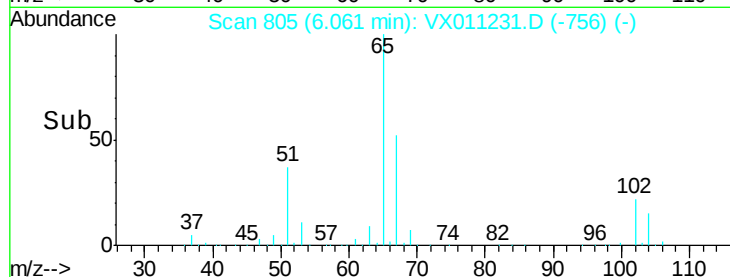
30000

20000

10000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX011231.D

Acq: 31 Jul 2019 06:08

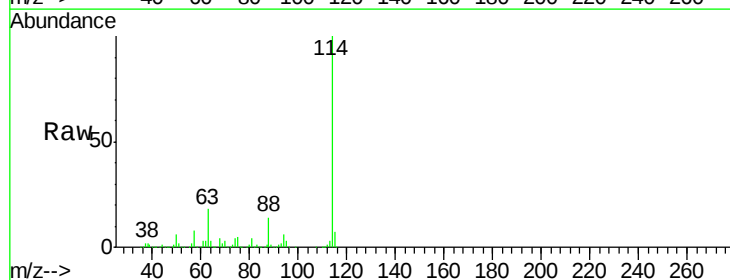
Tgt Ion: 114 Resp: 309594

Ion Ratio Lower Upper

114 100

63 17.8 0.0 35.6

88 13.9 0.0 29.8



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

6.86

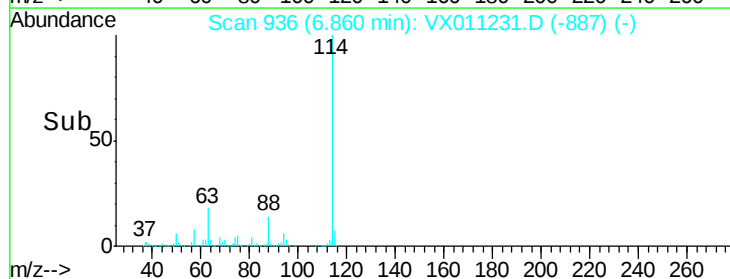
150000

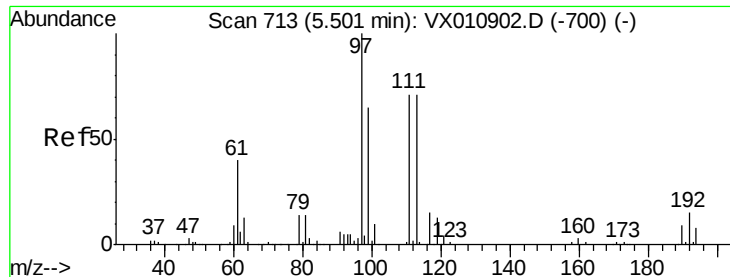
100000

50000

0

Time-->





#35

Dibromofluoromethane

Concen: 46.897 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX011231.D

Acq: 31 Jul 2019 06:08

Instrument :

MSVOA_X

ClientSampleId :

GW8-20190726

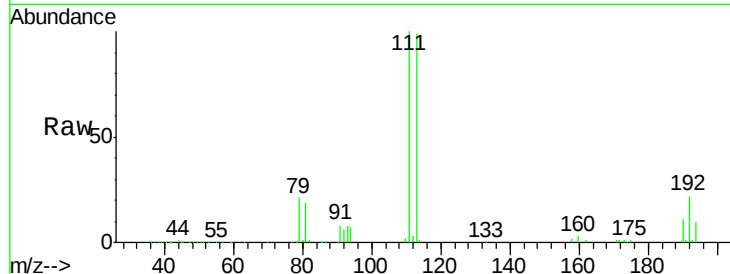
Tgt Ion:113 Resp: 92156

Ion Ratio Lower Upper

113 100

111 101.4 82.3 123.5

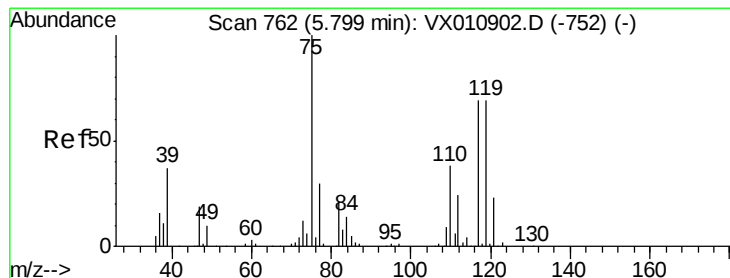
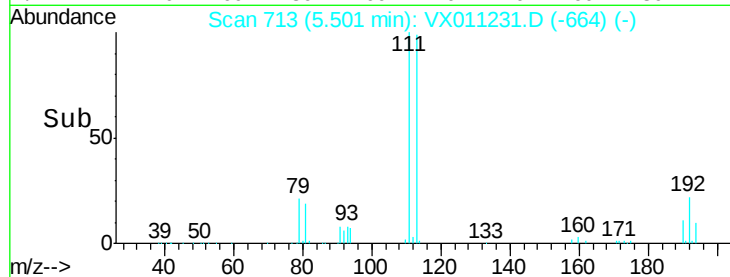
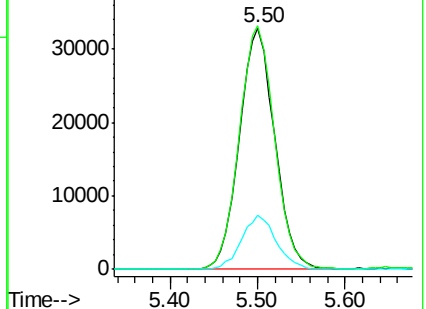
192 21.9 17.4 26.2



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 5.538 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX011231.D

Acq: 31 Jul 2019 06:08

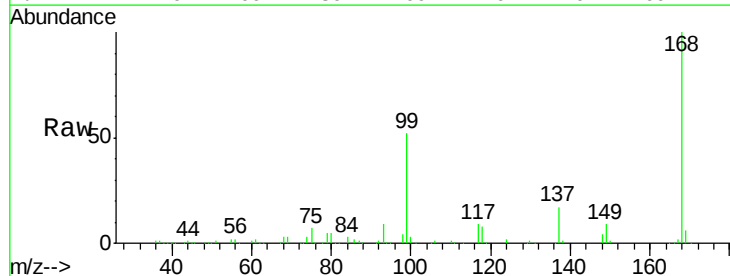
Tgt Ion: 75 Resp: 14083

Ion Ratio Lower Upper

75 100

110 12.0 19.9 59.7#

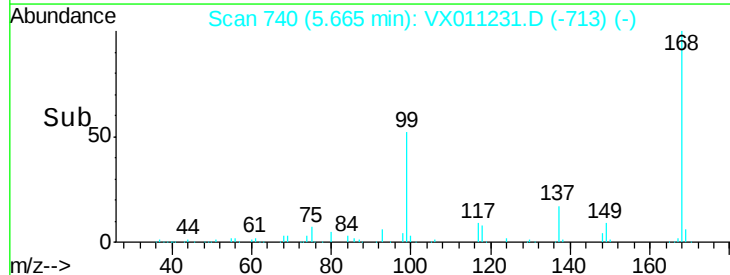
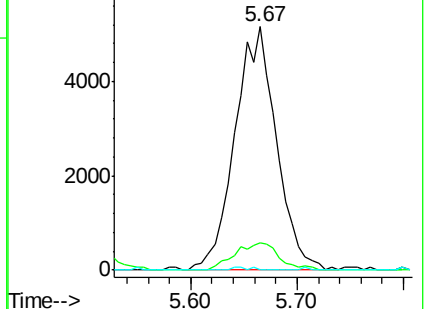
77 0.3 25.0 37.4#

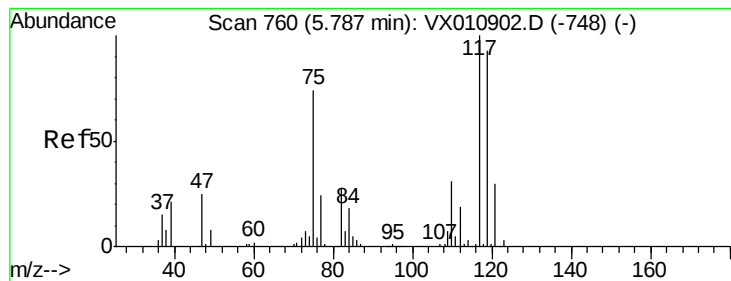


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 7.729 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX011231.D

Acq: 31 Jul 2019 06:08

Instrument :

MSVOA_X

ClientSampleId :

GW8-20190726

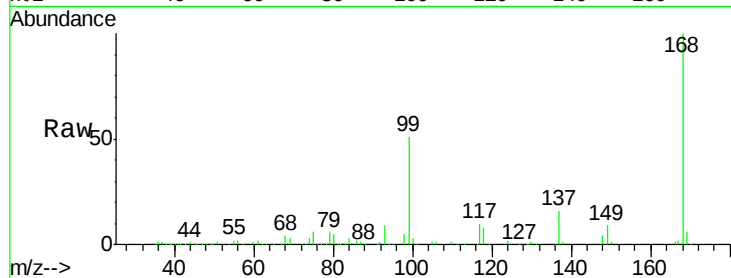
Tgt Ion: 117 Resp: 20481

Ion Ratio Lower Upper

117 100

119 4.1 74.2 111.2#

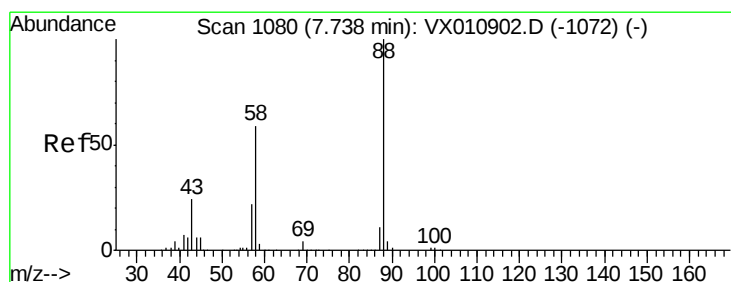
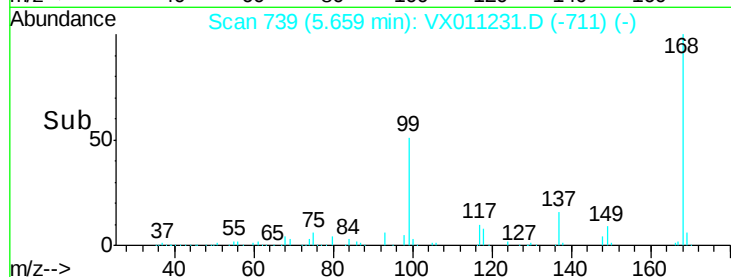
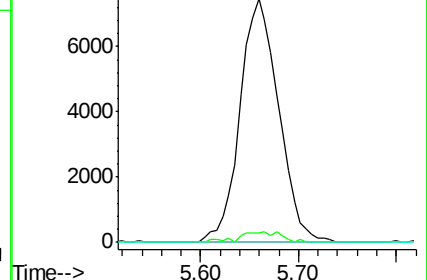
121 0.0 24.2 36.2#



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



#49

1,4-Dioxane

Concen: 0.377 ug/l

RT: 7.73 min Scan# 1078

Delta R.T. -0.01 min

Lab File: VX011231.D

Acq: 31 Jul 2019 06:08

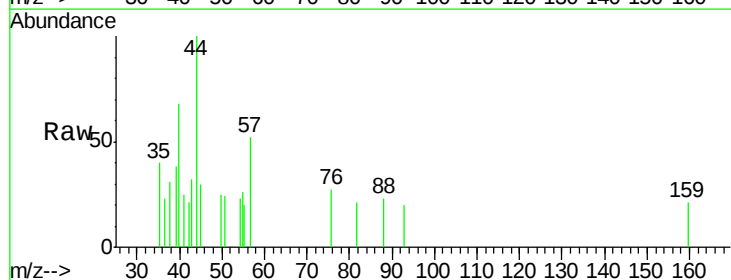
Tgt Ion: 88 Resp: 22

Ion Ratio Lower Upper

88 100

43 500.0 22.9 34.3#

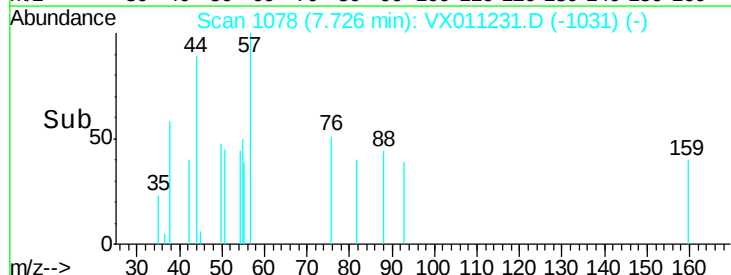
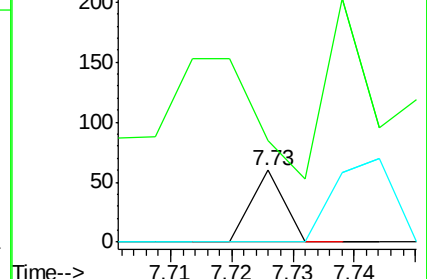
58 0.0 49.8 74.8#

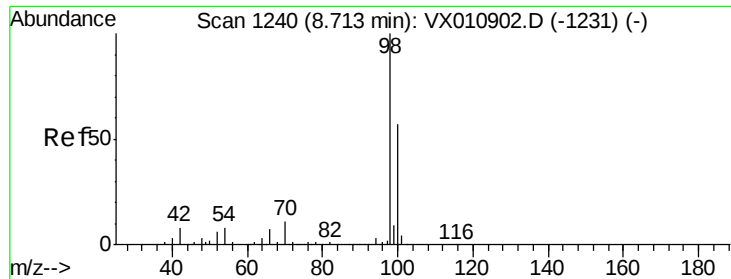


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

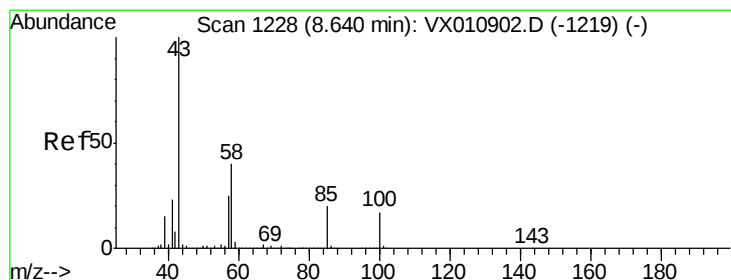
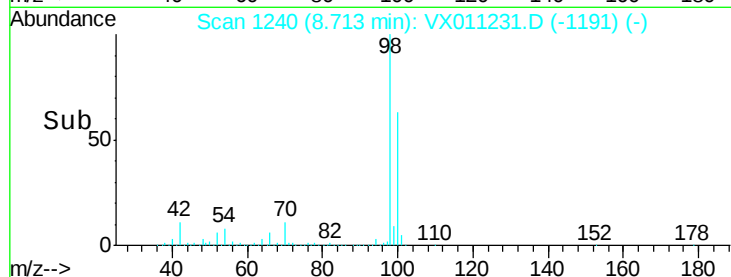
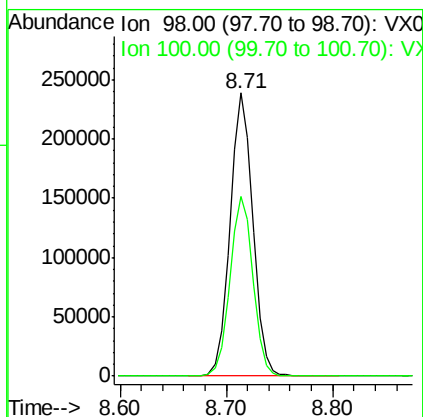
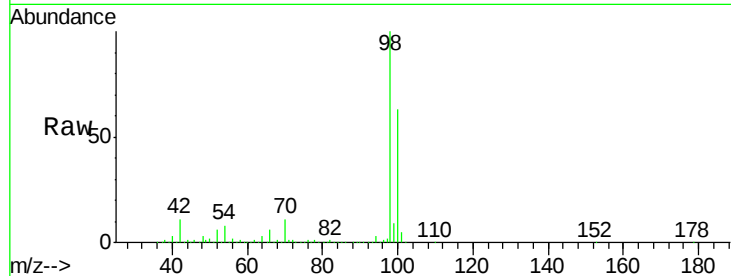




#50
Toluene-d8
Concen: 48.716 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX011231.D
Acq: 31 Jul 2019 06:08

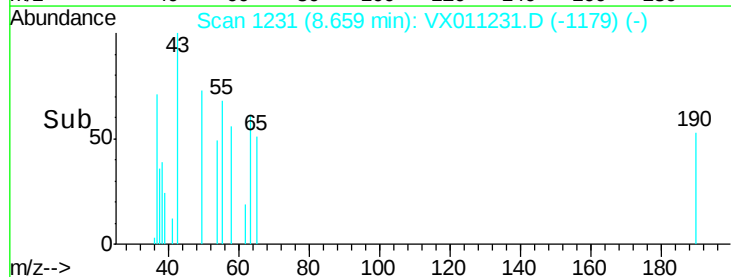
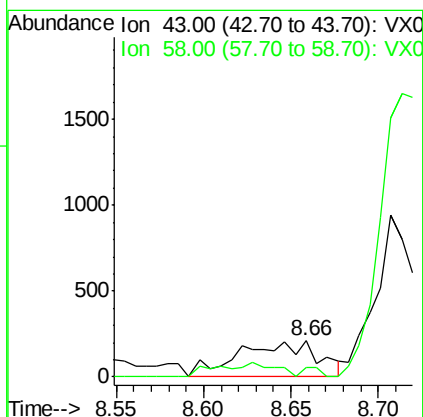
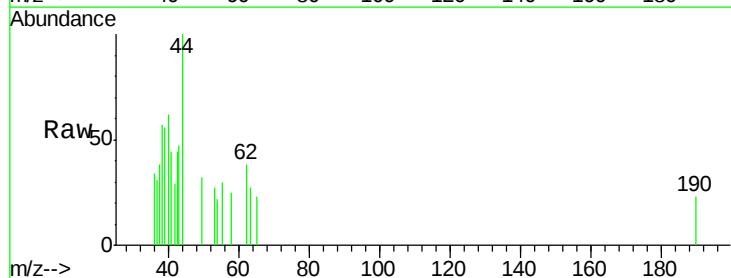
Instrument :
MSVOA_X
ClientSampleId :
GW8-20190726

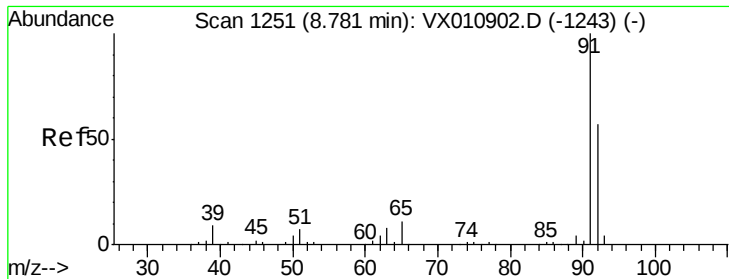
Tgt Ion: 98 Resp: 359046
Ion Ratio Lower Upper
98 100
100 64.0 50.6 75.8



#51
4-Methyl-2-Pentanone
Concen: 0.237 ug/l
RT: 8.66 min Scan# 1231
Delta R.T. 0.02 min
Lab File: VX011231.D
Acq: 31 Jul 2019 06:08

Tgt Ion: 43 Resp: 657
Ion Ratio Lower Upper
43 100
58 0.0 32.2 48.4#





#52

Toluene

Concen: 0.660 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.01 min

Lab File: VX011231.D

Acq: 31 Jul 2019 06:08

Instrument :

MSVOA_X

ClientSampleId :

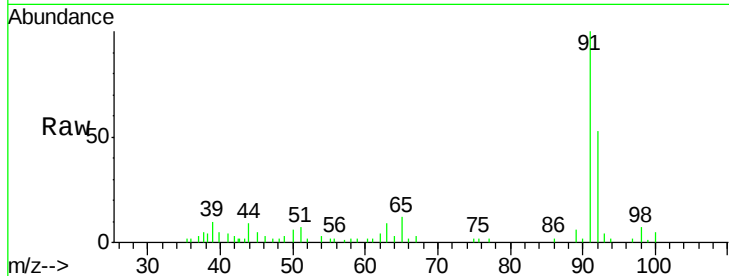
GW8-20190726

Tgt Ion: 92 Resp: 3380

Ion Ratio Lower Upper

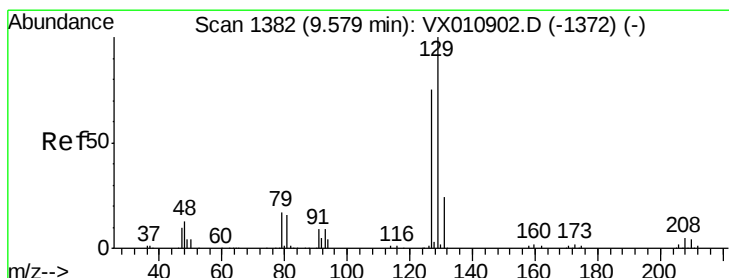
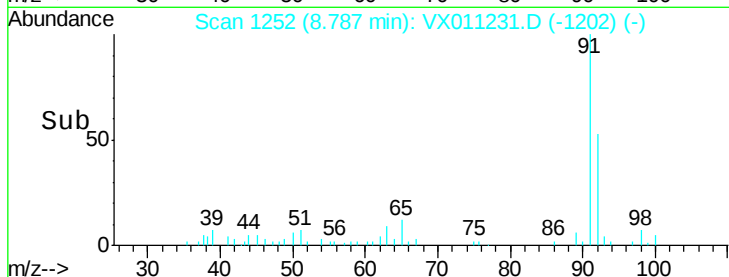
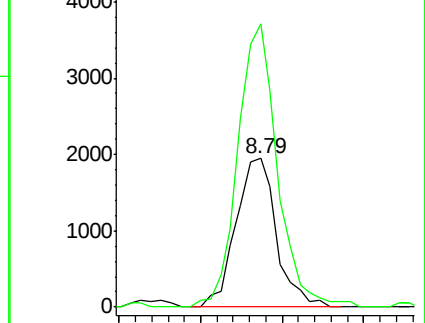
92 100

91 185.3 139.4 209.0



Abundance Ion 92.00 (91.70 to 92.70): VX010902.D (-1243) (-)

Ion 91.00 (90.70 to 91.70): VX010902.D (-1243) (-)



#60

Dibromochloromethane

Concen: 2.606 ug/l

RT: 9.33 min Scan# 1341

Delta R.T. -0.25 min

Lab File: VX011231.D

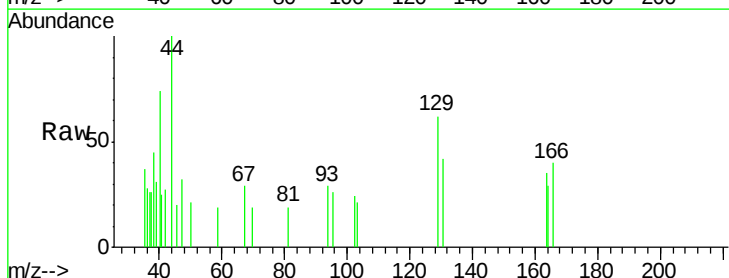
Acq: 31 Jul 2019 06:08

Tgt Ion: 129 Resp: 199

Ion Ratio Lower Upper

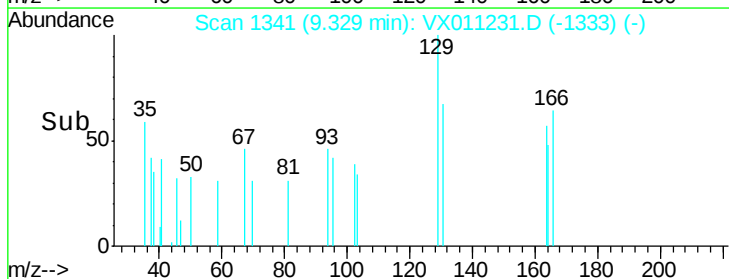
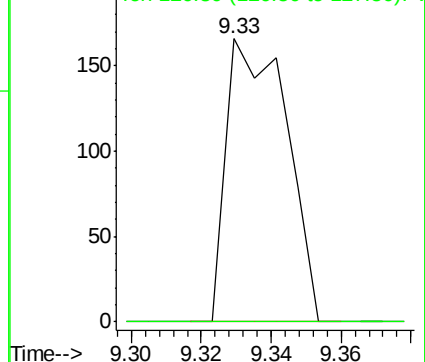
129 100

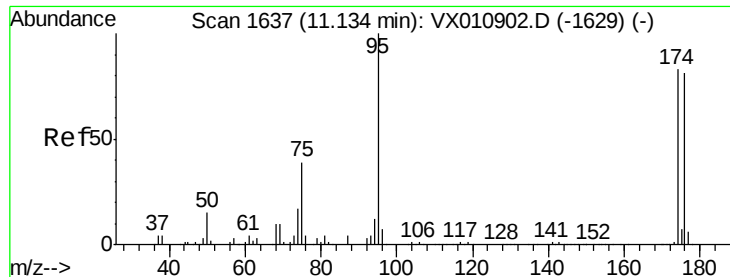
127 0.0 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): VX010902.D (-1372) (-)

Ion 126.80 (126.50 to 127.50): VX010902.D (-1372) (-)





#62

4-Bromofluorobenzene

Concen: 43.315 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX011231.D

Acq: 31 Jul 2019 06:08

Instrument :

MSVOA_X

ClientSampleId :

GW8-20190726

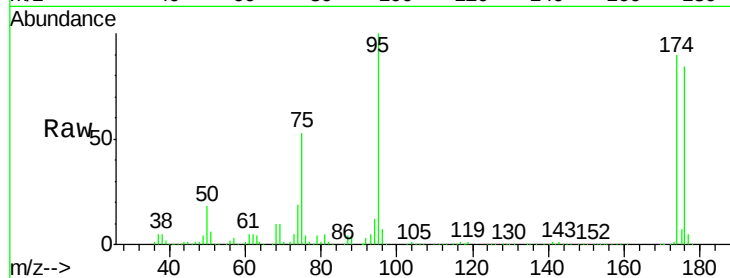
Tgt Ion: 95 Resp: 117344

Ion Ratio Lower Upper

95 100

174 93.1 0.0 180.6

176 88.4 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

120000

100000

80000

60000

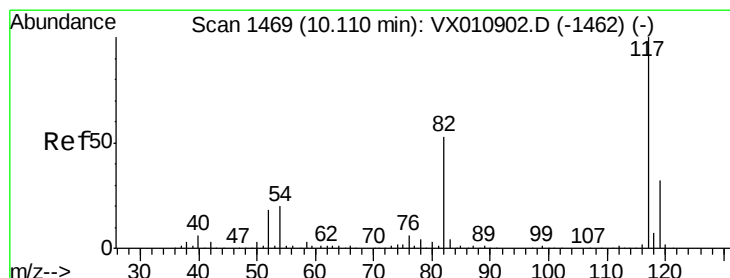
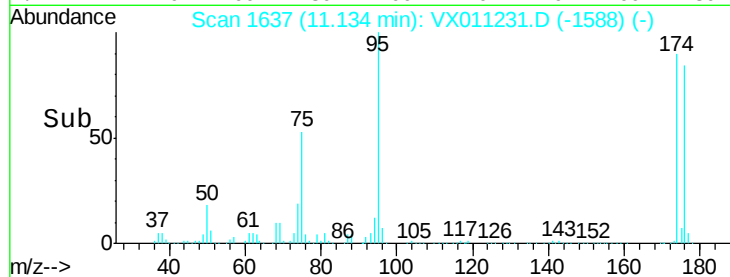
40000

20000

0

11.10 11.13 11.20

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX011231.D

Acq: 31 Jul 2019 06:08

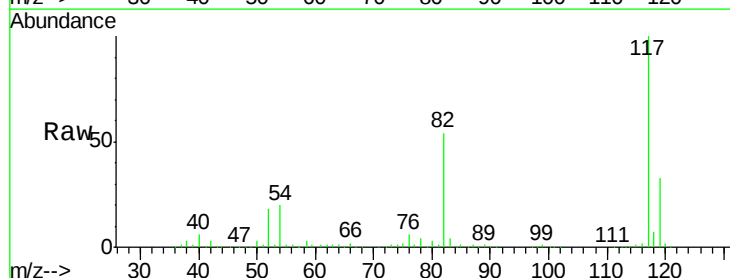
Tgt Ion: 117 Resp: 271040

Ion Ratio Lower Upper

117 100

82 53.5 42.6 63.8

119 33.2 25.9 38.9



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

250000

200000

150000

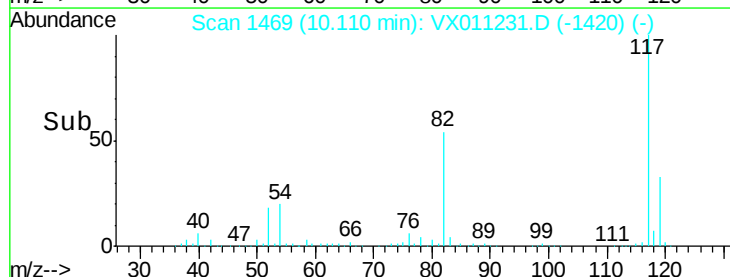
100000

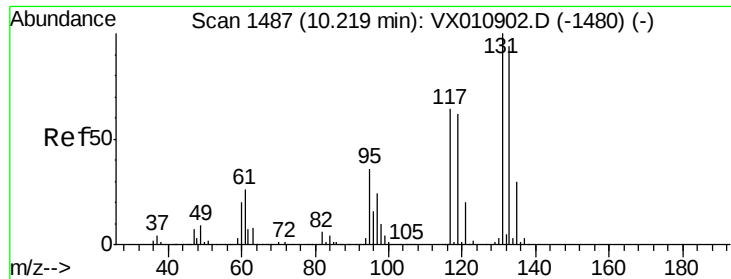
50000

0

10.10 10.11 10.20

Time-->





#66

1,1,1,2-Tetrachloroethane

Concen: 0.502 ug/l

RT: 10.21 min Scan# 1485

Delta R.T. -0.01 min

Lab File: VX011231.D

Acq: 31 Jul 2019 06:08

Instrument :

MSVOA_X

ClientSampleId :

GW8-20190726

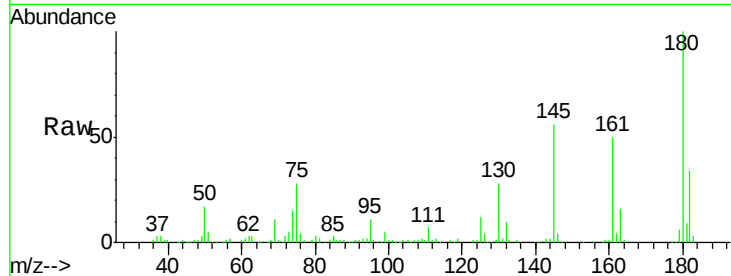
Tgt Ion:131 Resp: 982

Ion Ratio Lower Upper

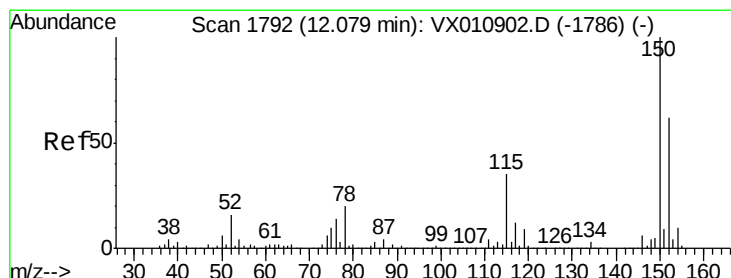
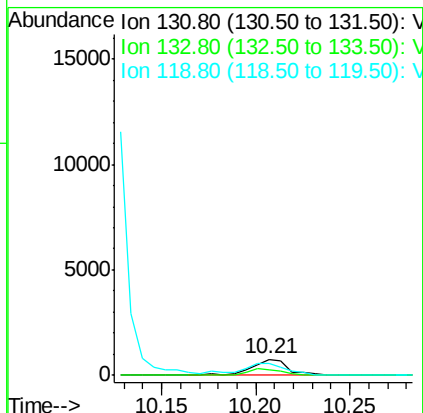
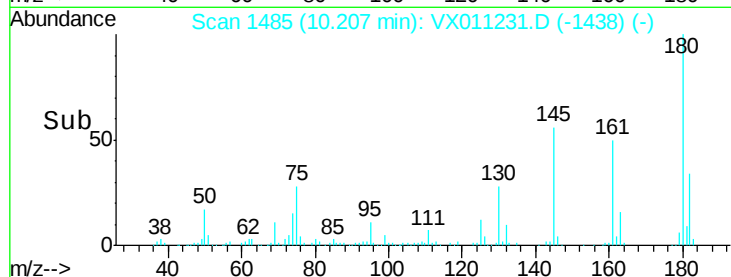
131 100

133 38.0 47.1 141.4#

119 0.0 31.9 95.7#



Abundance Ion 130.80 (130.50 to 131.50): V
Ion 132.80 (132.50 to 133.50): V
Ion 118.80 (118.50 to 119.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1791

Delta R.T. -0.01 min

Lab File: VX011231.D

Acq: 31 Jul 2019 06:08

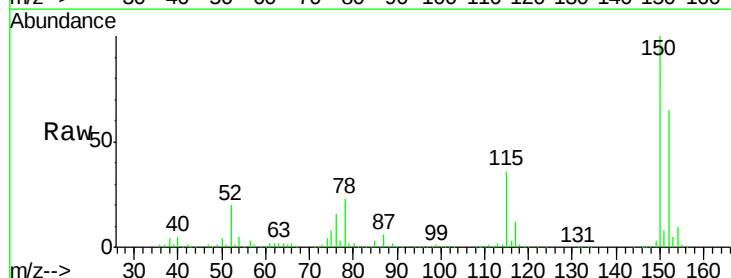
Tgt Ion:152 Resp: 127364

Ion Ratio Lower Upper

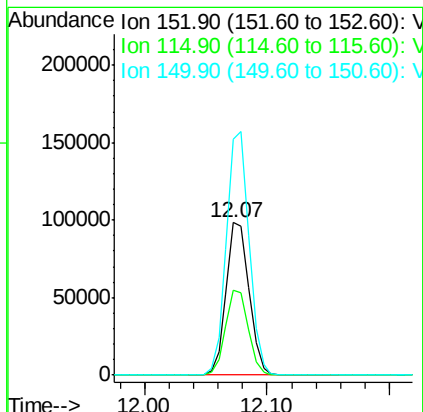
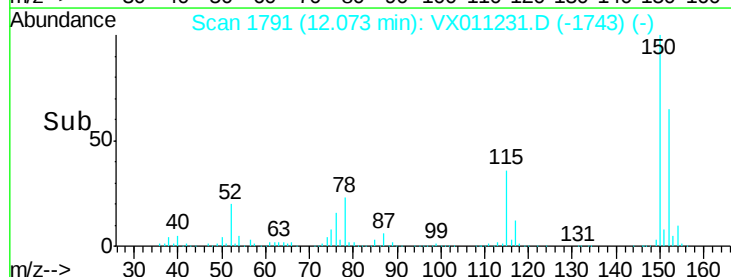
152 100

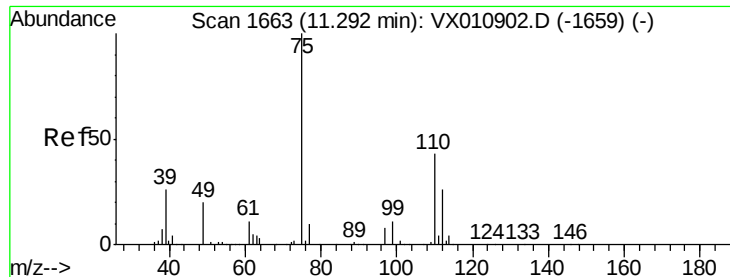
115 55.2 39.7 119.1

150 158.0 0.0 345.6



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: 26.530 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011231.D

Acq: 31 Jul 2019 06:08

Instrument :

MSVOA_X

ClientSampled :

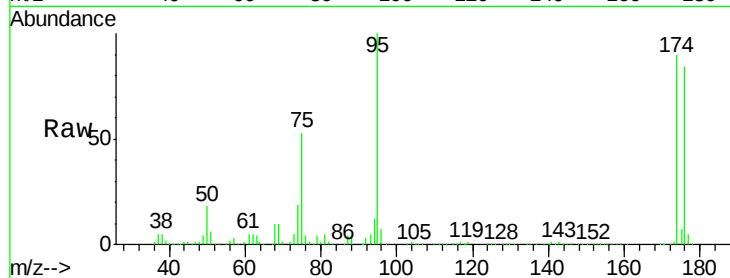
GW8-20190726

Tgt Ion: 75 Resp: 60976

Ion Ratio Lower Upper

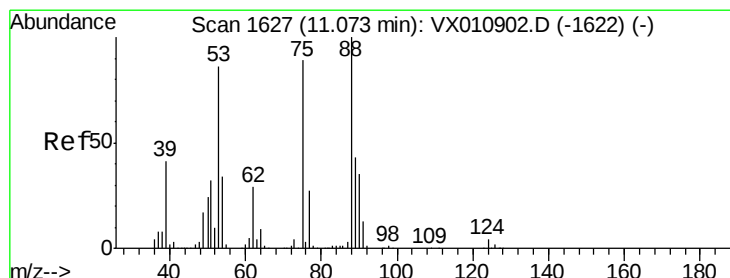
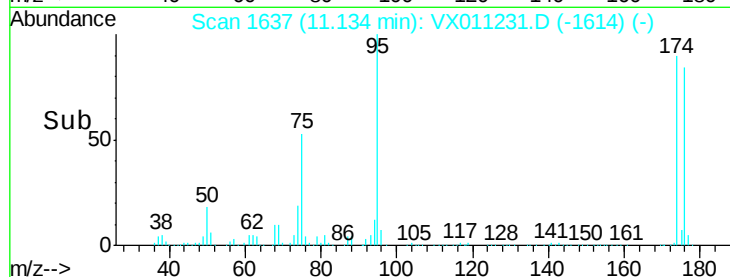
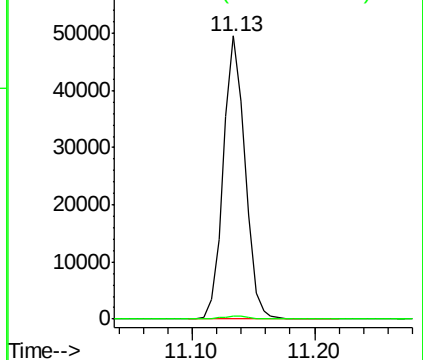
75 100

77 1.3 21.3 64.0#



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: 65.846 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011231.D

Acq: 31 Jul 2019 06:08

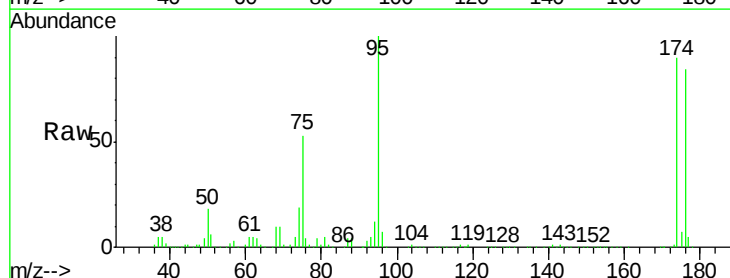
Tgt Ion: 75 Resp: 60976

Ion Ratio Lower Upper

75 100

53 0.1 76.7 115.1#

89 0.0 38.5 57.7#



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

