

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX021419\
 Data File : VX007526.D
 Acq On : 13 Feb 2019 17:50
 Operator : JC/SP
 Sample : K1458-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 GW-1

Quant Time: Feb 14 02:38:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X020119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Feb 02 01:32:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	543973	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	842349	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	771939	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	372745	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	284730	49.31	ug/l	0.00
Spiked Amount			Recovery	=	98.62%	
35) Dibromofluoromethane	5.51	113	268529	48.99	ug/l	0.00
Spiked Amount			Recovery	=	97.98%	
50) Toluene-d8	8.71	98	986655	48.52	ug/l	0.00
Spiked Amount			Recovery	=	97.04%	
62) 4-Bromofluorobenzene	11.13	95	346459	46.67	ug/l	0.00
Spiked Amount			Recovery	=	93.34%	

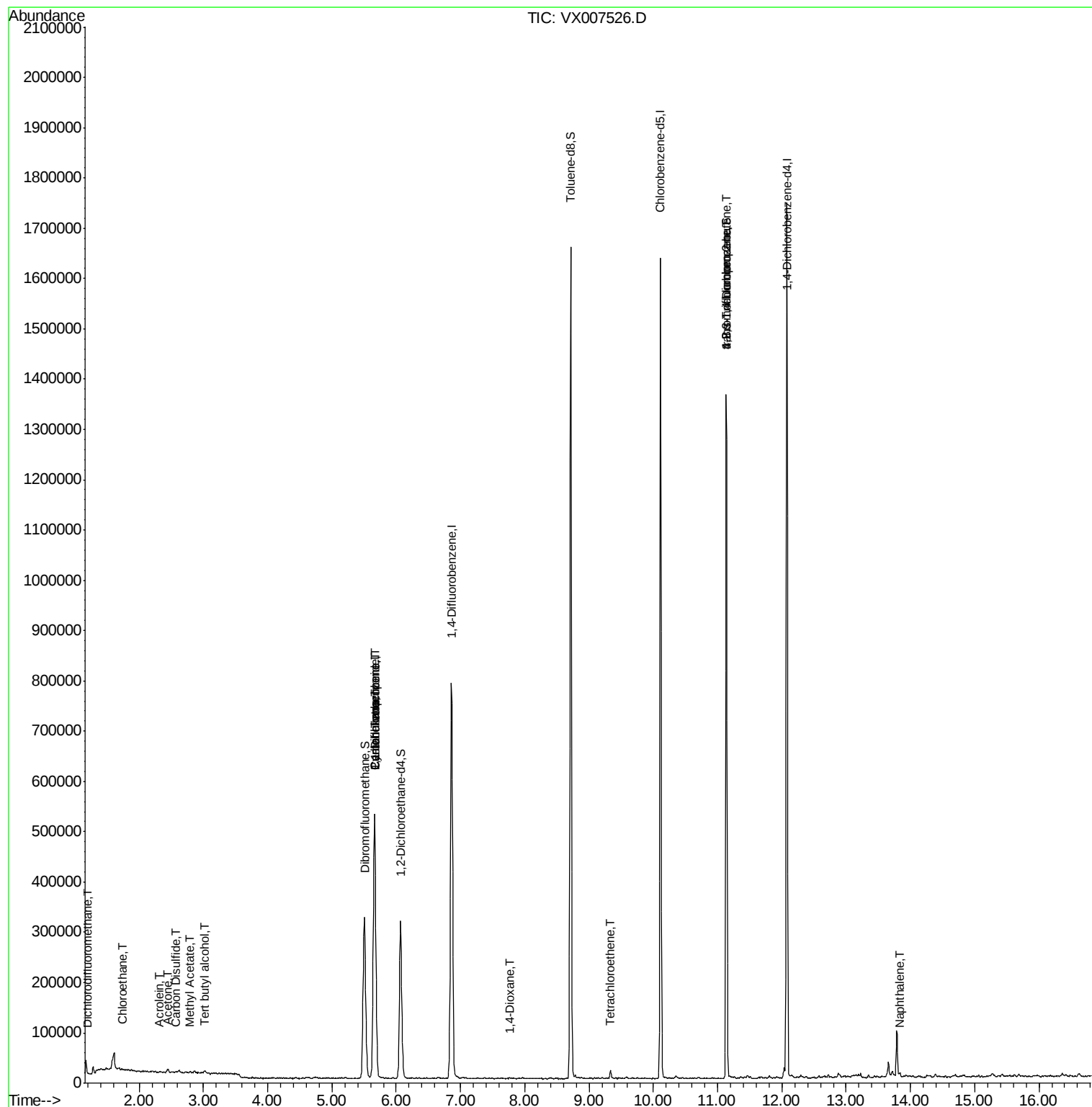
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	337	0.228	ug/l	94
5) Bromomethane	1.65	94	533	Below Cal	#	63
6) Chloroethane	1.74	64	1218	0.313	ug/l #	74
11) Tert butyl alcohol	3.03	59	4179	3.497	ug/l #	85
13) Acrolein	2.31	56	336	0.600	ug/l	90
16) Acetone	2.45	43	6985	2.641	ug/l	96
17) Carbon Disulfide	2.57	76	2338	2.286	ug/l #	92
18) Methyl Acetate	2.78	43	914	0.724	ug/l #	51
20) Methylene Chloride	2.87	84	1617	Below Cal	#	78
31) Cyclohexane	5.66	56	8936	1.113	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	33129	4.383	ug/l #	49
38) Carbon Tetrachloride	5.67	117	49316	6.726	ug/l #	17
49) 1,4-Dioxane	7.76	88	45	7.212	ug/l #	1
64) Tetrachloroethene	9.34	164	3380	0.465	ug/l	89
76) 1,2,3-Trichloropropane	11.13	75	164866	22.739	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	164866	68.569	ug/l #	8
95) Naphthalene	13.83	128	5154	0.205	ug/l #	94

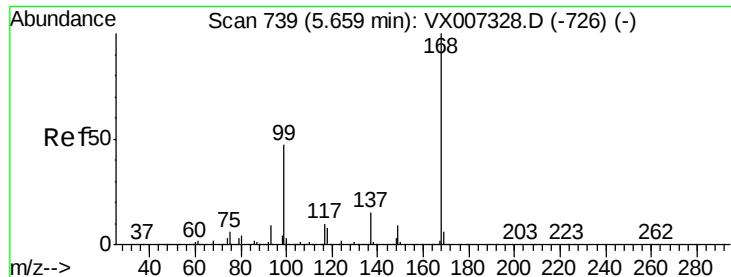
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X020119W.M
Quant Title : SW846 8260
QLast Update : Sat Feb 02 01:32:36 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX007526.D

Acq: 13 Feb 2019 17:50

Instrument :

MSVOA_X

ClientSampled :

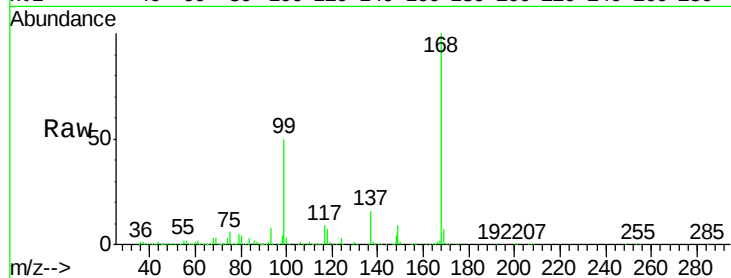
GW-1

Tot Ion:168 Resp: 543973

Ion Ratio Lower Upper

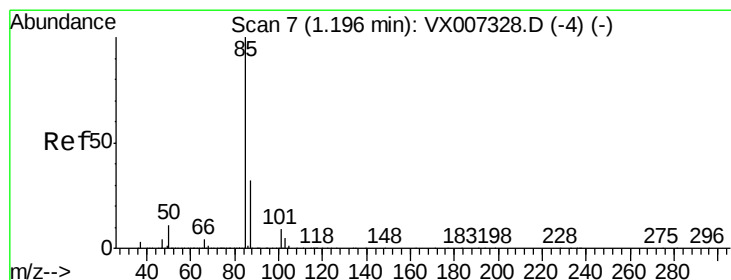
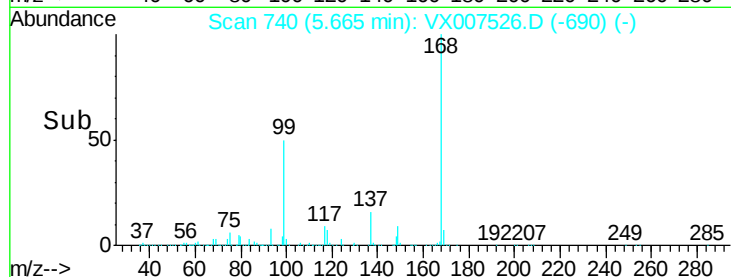
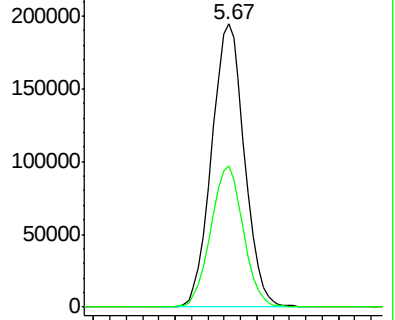
168 100

99 49.8 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 0.228 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX007526.D

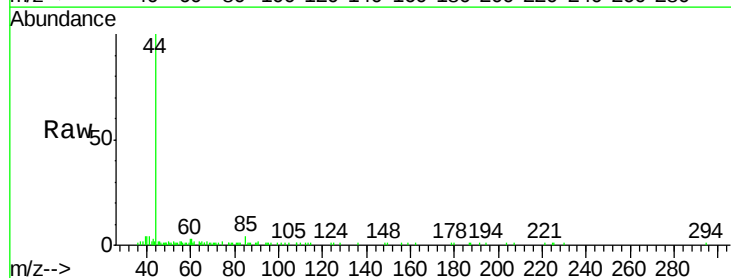
Acq: 13 Feb 2019 17:50

Tgt Ion: 85 Resp: 337

Ion Ratio Lower Upper

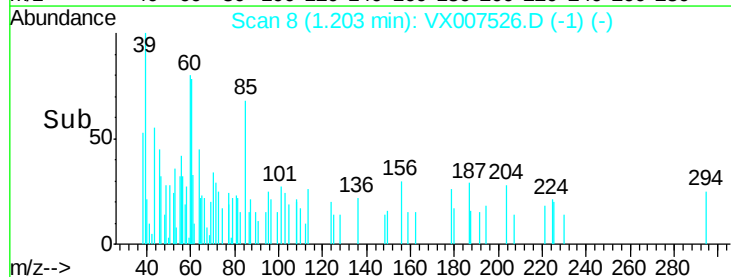
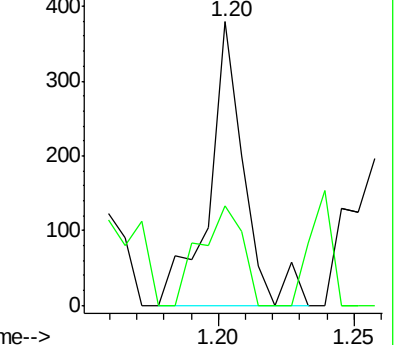
85 100

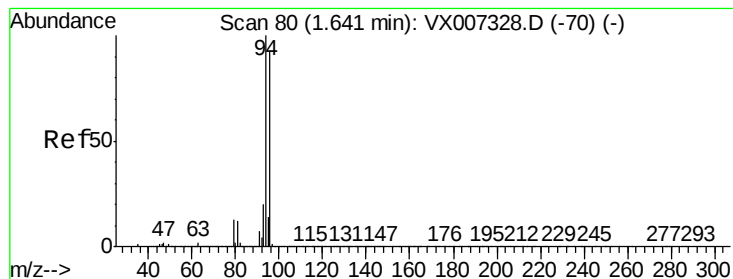
87 35.1 15.8 47.4



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX007526.D

Acq: 13 Feb 2019 17:50

Instrument :

MSVOA_X

ClientSampleId :

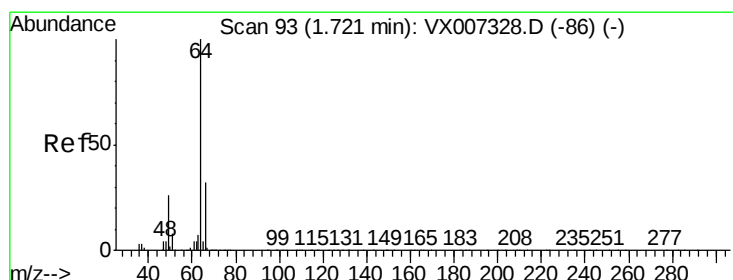
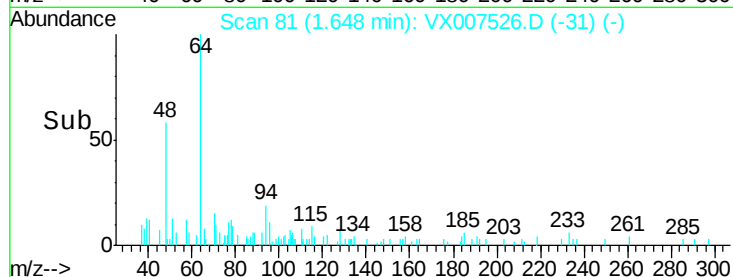
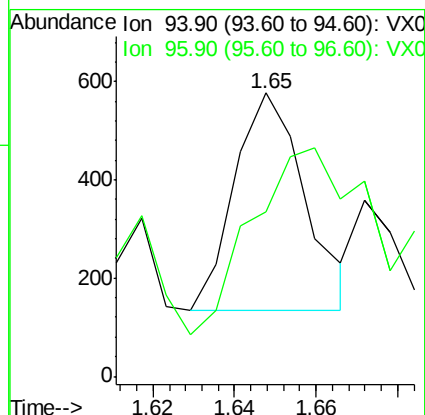
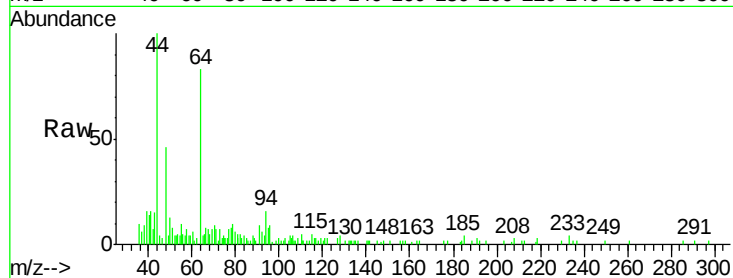
GW-1

Tot Ion: 94 Resp: 533

Ion Ratio Lower Upper

94 100

96 56.8 73.9 110.9#



#6

Chloroethane

Concen: 0.313 ug/l

RT: 1.74 min Scan# 96

Delta R.T. 0.02 min

Lab File: VX007526.D

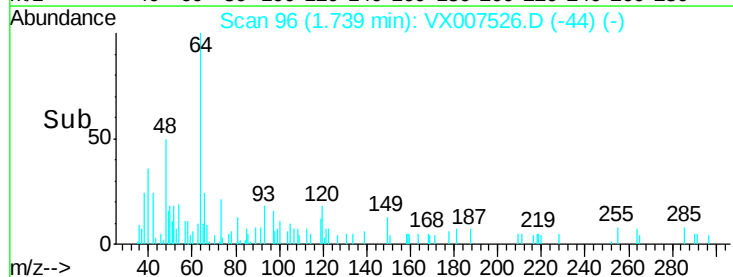
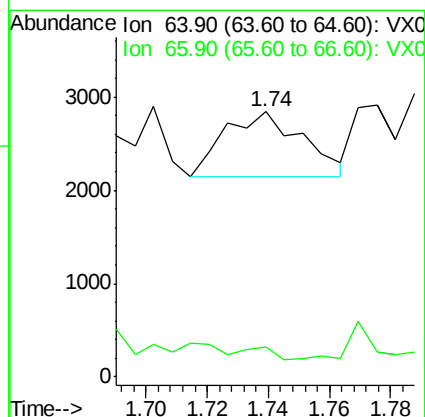
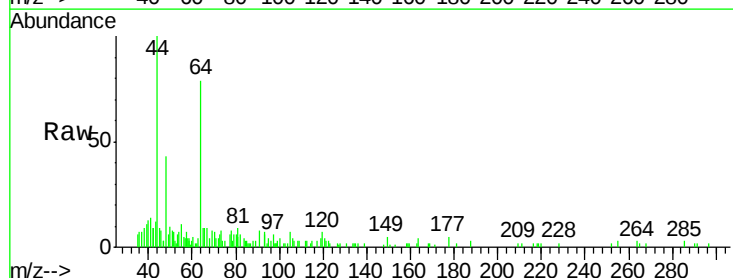
Acq: 13 Feb 2019 17:50

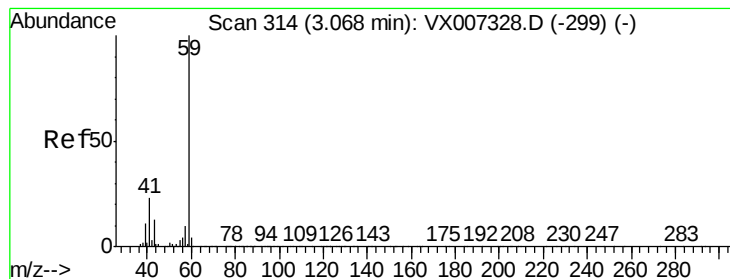
Tgt Ion: 64 Resp: 1218

Ion Ratio Lower Upper

64 100

66 17.3 25.5 38.3#



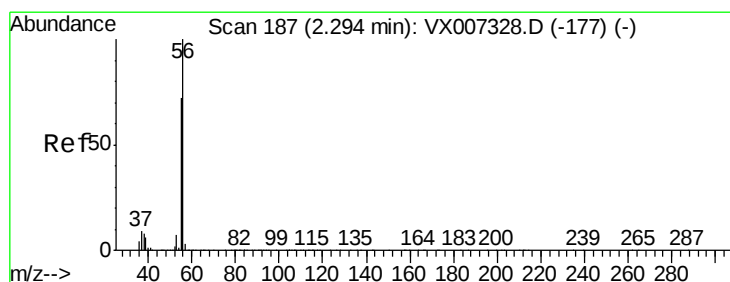
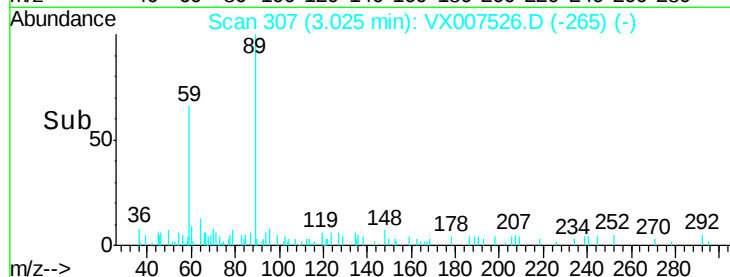
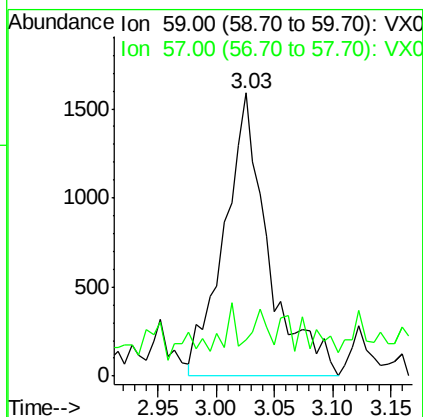
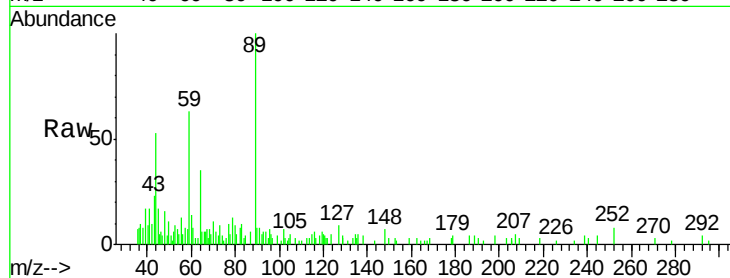


#11

Tert butyl alcohol
 Concen: 3.497 ug/l
 RT: 3.03 min Scan# 307
 Delta R.T. -0.04 min
 Lab File: VX007526.D
 Acq: 13 Feb 2019 17:50

Instrument :
 MSVOA_X
 ClientSampleId :
 GW-1

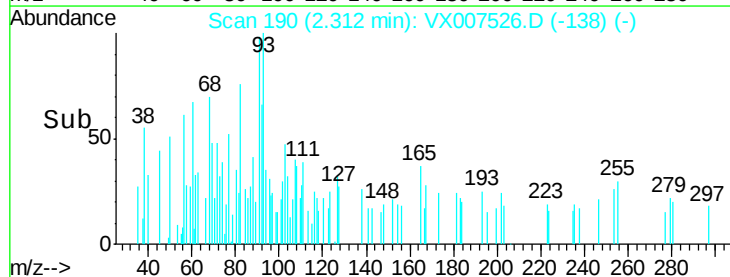
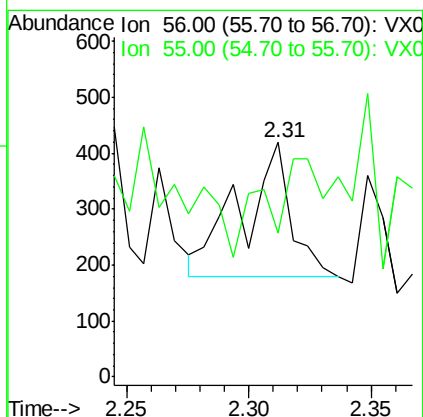
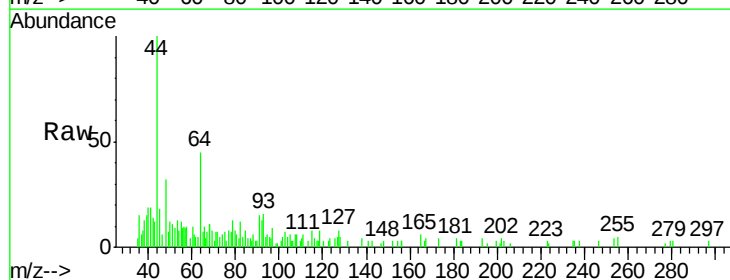
Tot Ion: 59 Resp: 4179
 Ion Ratio Lower Upper
 59 100
 57 4.4 8.1 12.1#

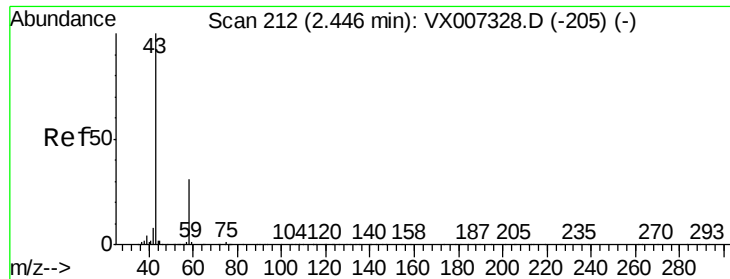


#13

Acrolein
 Concen: 0.600 ug/l
 RT: 2.31 min Scan# 190
 Delta R.T. 0.02 min
 Lab File: VX007526.D
 Acq: 13 Feb 2019 17:50

Tgt Ion: 56 Resp: 336
 Ion Ratio Lower Upper
 56 100
 55 79.5 56.9 85.3





#16

Acetone

Concen: 2.641 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX007526.D

Acq: 13 Feb 2019 17:50

Instrument :

MSVOA_X

ClientSampleId :

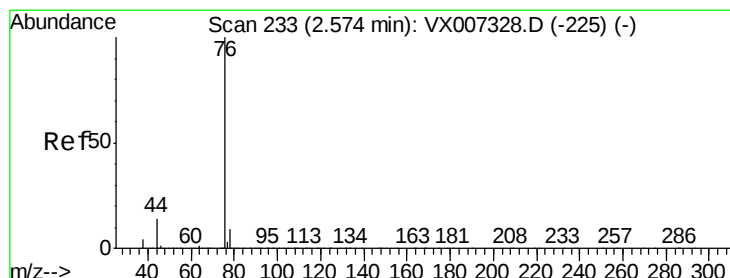
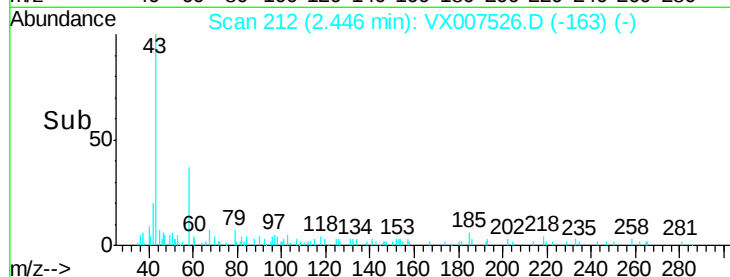
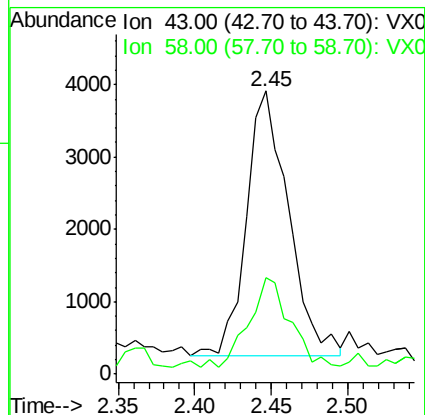
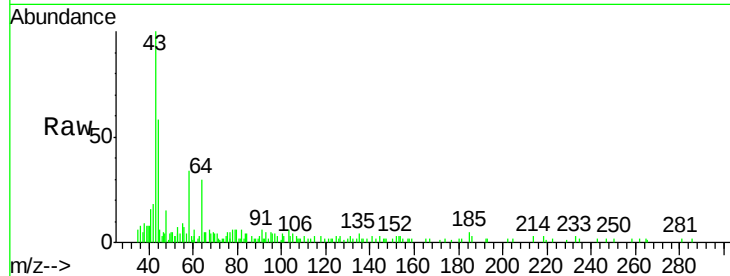
GW-1

Tot Ion: 43 Resp: 6985

Ion Ratio Lower Upper

43 100

58 33.2 24.9 37.3



#17

Carbon Disulfide

Concen: 2.286 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.00 min

Lab File: VX007526.D

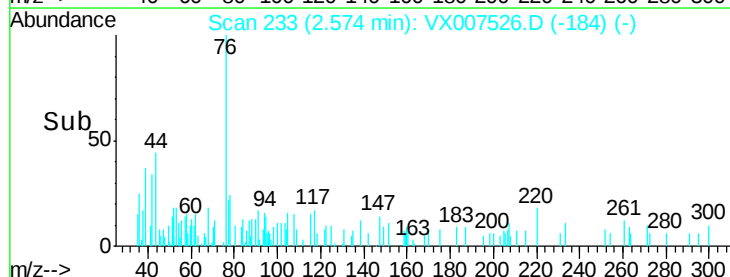
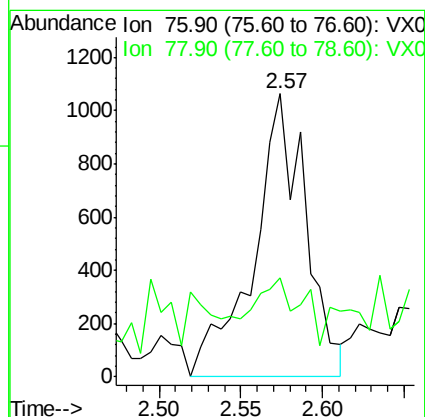
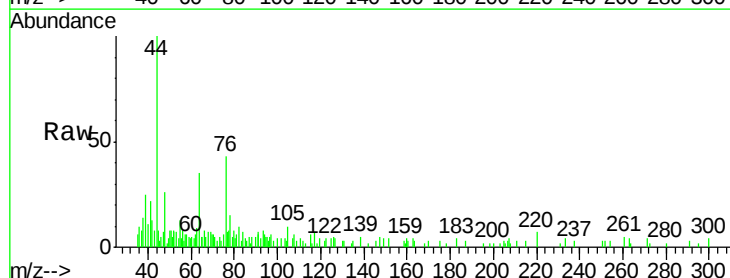
Acq: 13 Feb 2019 17:50

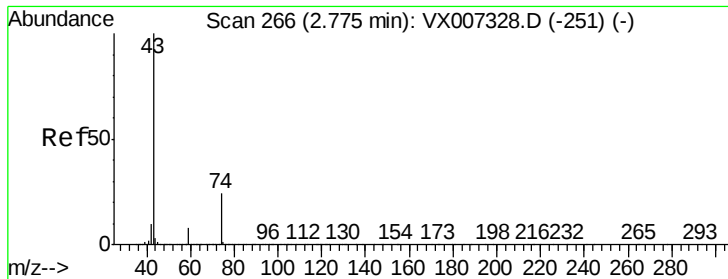
Tgt Ion: 76 Resp: 2338

Ion Ratio Lower Upper

76 100

78 11.9 7.1 10.7#

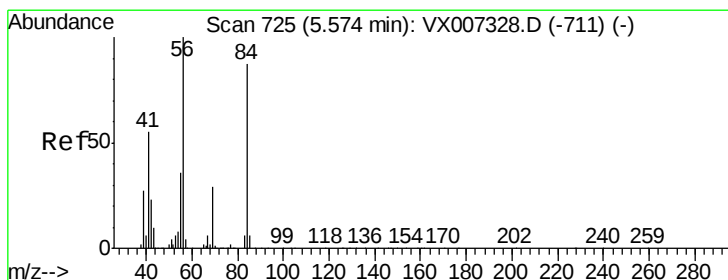
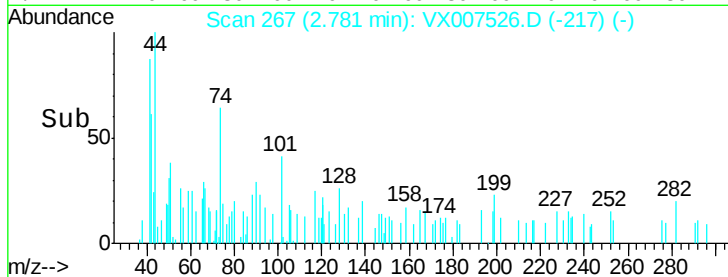
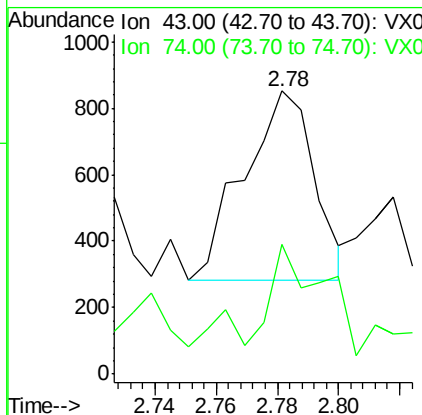
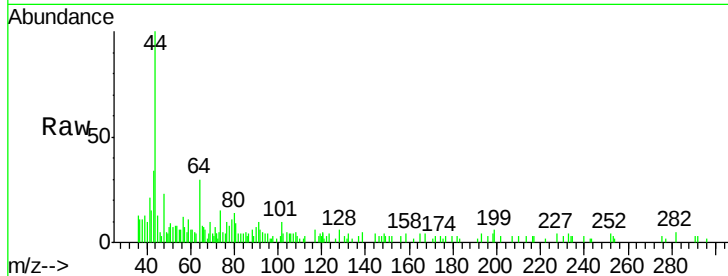




#18
Methvl Acetate
Concen: 0.724 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX007526.D
Acq: 13 Feb 2019 17:50

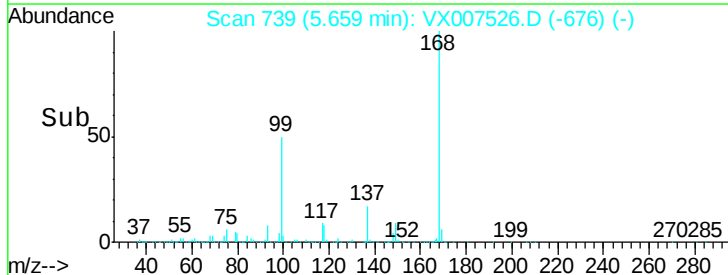
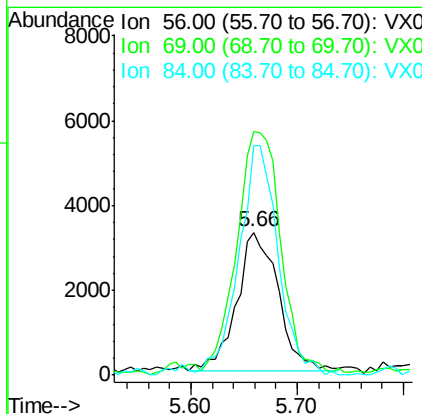
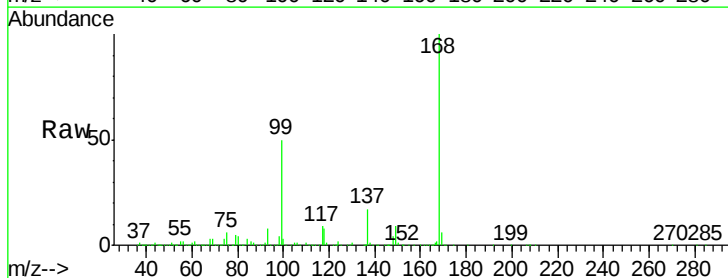
Instrument :
MSVOA_X
ClientSampled :
GW-1

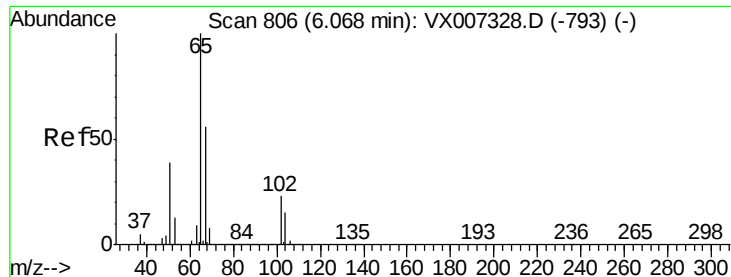
Tot Ion: 43 Resp: 914
Ion Ratio Lower Upper
43 100
74 48.5 19.4 29.2#



#31
Cyclohexane
Concen: 1.113 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX007526.D
Acq: 13 Feb 2019 17:50

Tgt Ion: 56 Resp: 8936
Ion Ratio Lower Upper
56 100
69 173.4 23.0 34.6#
84 168.5 69.8 104.6#





#33

1,2-Dichloroethane-d4

Concen: 49.314 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX007526.D

Acq: 13 Feb 2019 17:50

Instrument :

MSVOA_X

ClientSampleId :

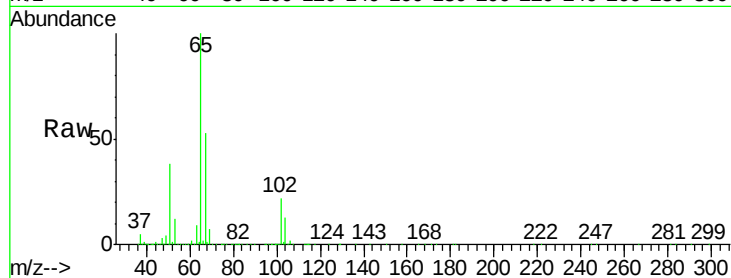
GW-1

Tot Ion: 65 Resp: 284730

Ion Ratio Lower Upper

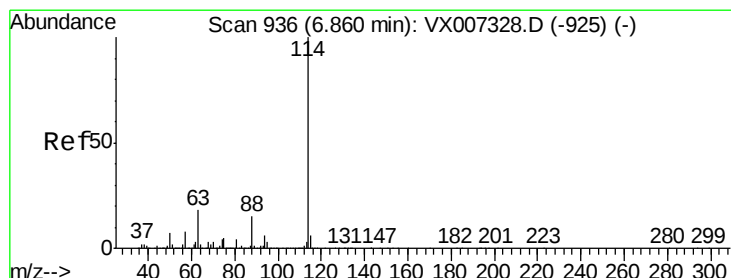
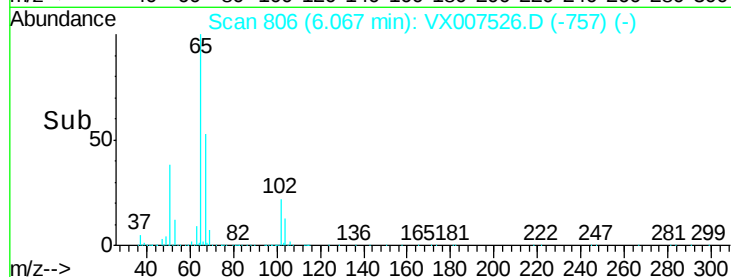
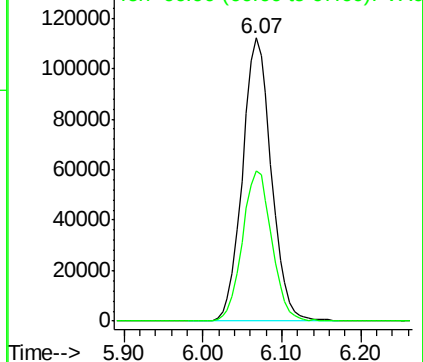
65 100

67 54.2 0.0 108.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX007526.D

Acq: 13 Feb 2019 17:50

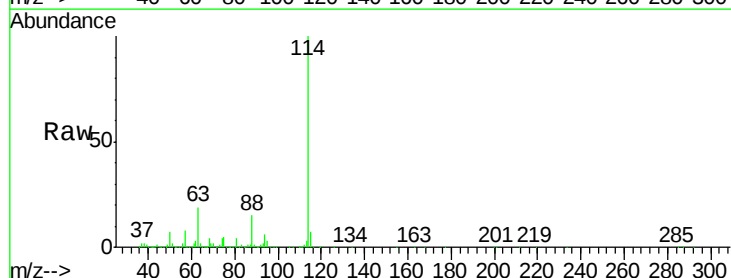
Tgt Ion: 114 Resp: 842349

Ion Ratio Lower Upper

114 100

63 18.7 0.0 35.6

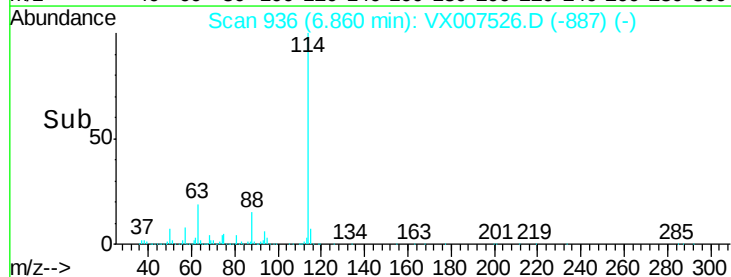
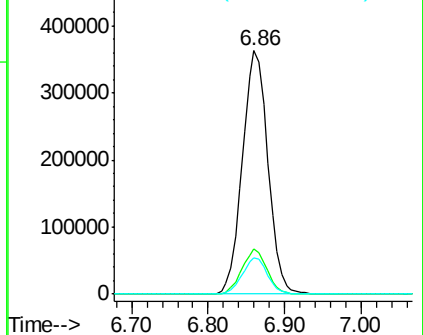
88 14.8 0.0 29.6

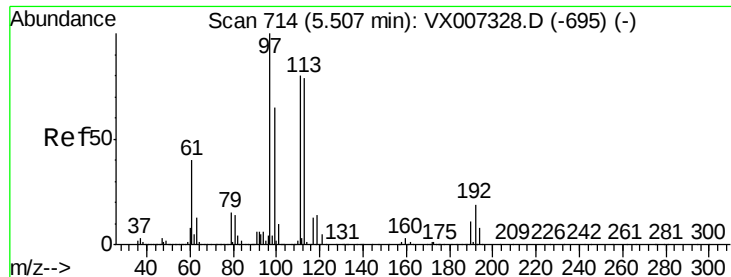


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.994 ug/l

RT: 5.51 min Scan# 714

Delta R.T. -0.00 min

Lab File: VX007526.D

Acq: 13 Feb 2019 17:50

Instrument :

MSVOA_X

ClientSampleId :

GW-1

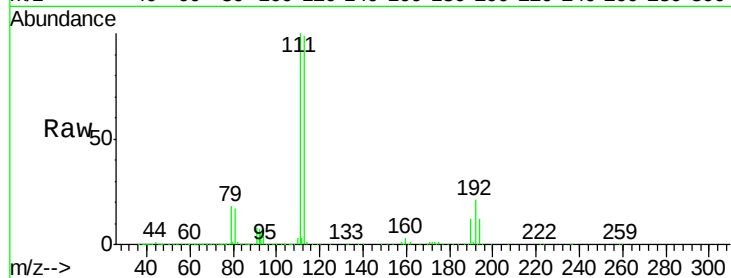
Tot Ion:113 Resp: 268529

Ion Ratio Lower Upper

113 100

111 103.0 81.8 122.8

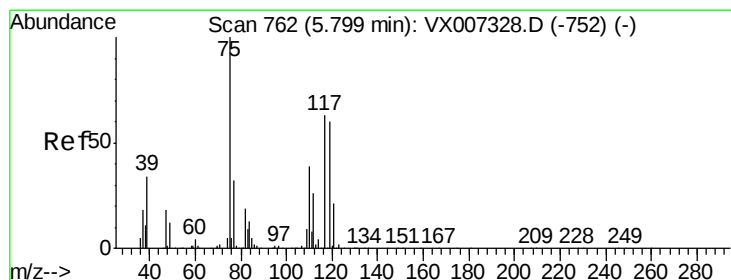
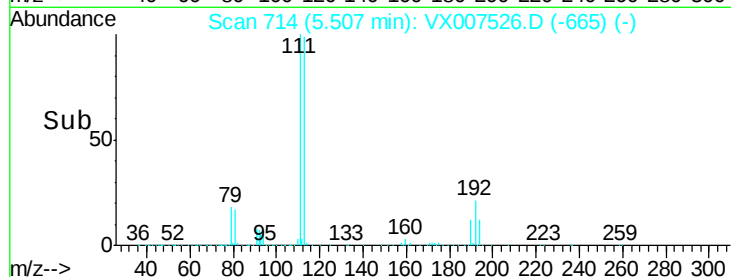
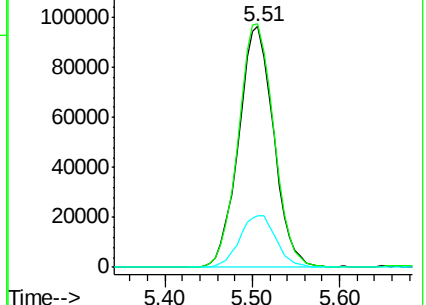
192 22.4 18.5 27.7



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: 4.383 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX007526.D

Acq: 13 Feb 2019 17:50

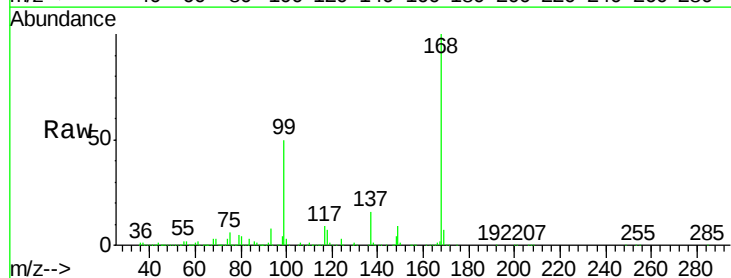
Tgt Ion: 75 Resp: 33129

Ion Ratio Lower Upper

75 100

110 11.3 20.0 59.9#

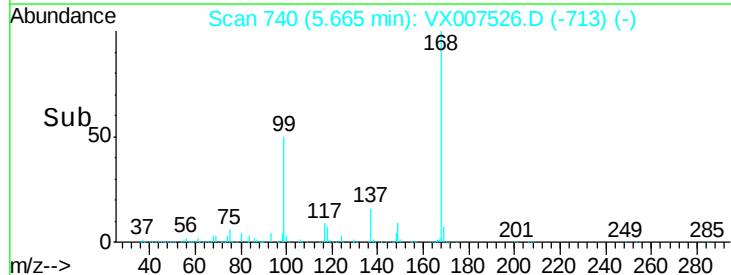
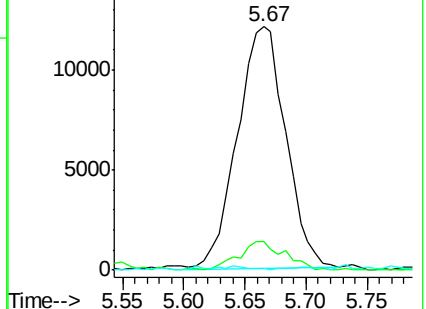
77 0.0 24.7 37.1#

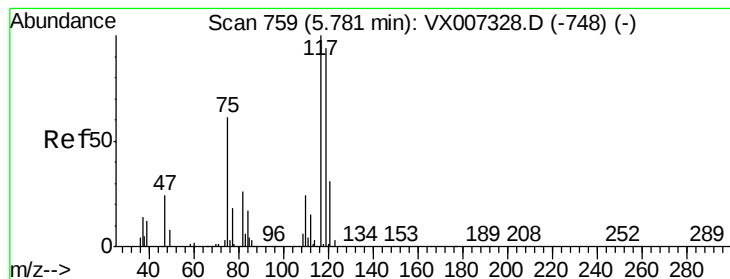


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.726 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007526.D

Acq: 13 Feb 2019 17:50

Instrument :

MSVOA_X

ClientSampled :

GW-1

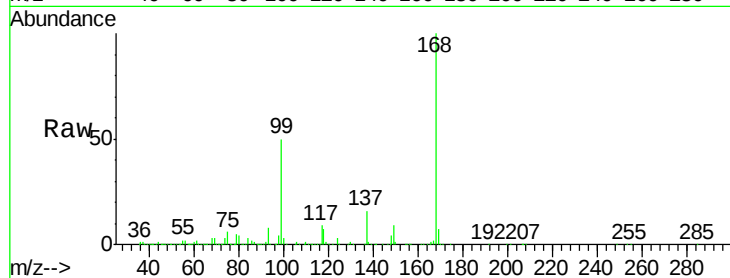
Tot Ion:117 Resp: 49316

Ion Ratio Lower Upper

117 100

119 5.6 75.3 112.9#

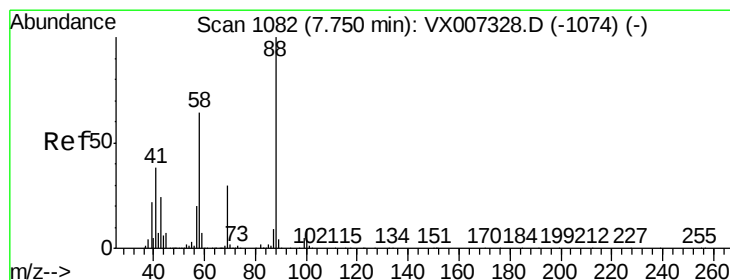
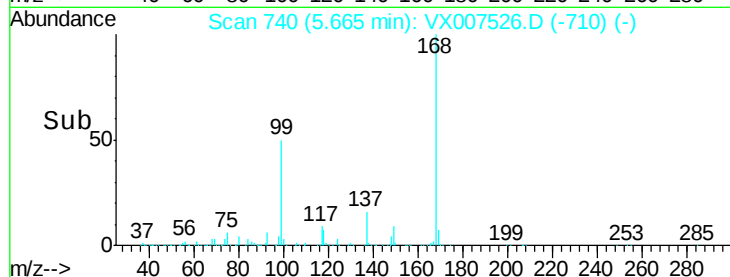
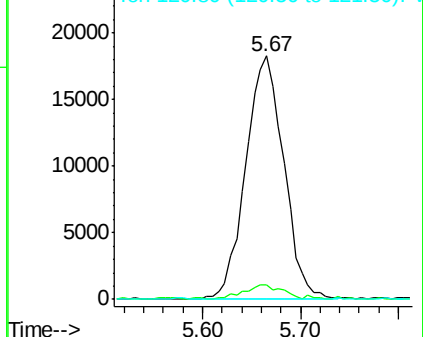
121 0.0 25.0 37.4#



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: 7.212 ug/l

RT: 7.76 min Scan# 1083

Delta R.T. 0.01 min

Lab File: VX007526.D

Acq: 13 Feb 2019 17:50

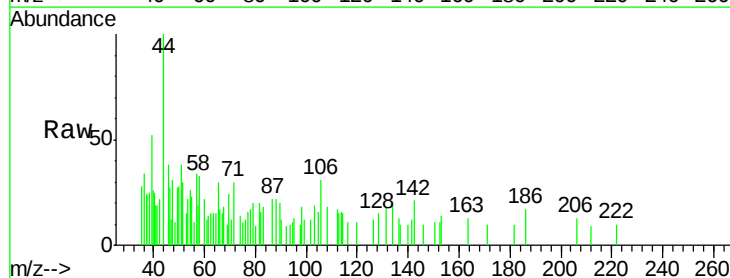
Tgt Ion: 88 Resp: 45

Ion Ratio Lower Upper

88 100

43 0.0 24.2 36.4#

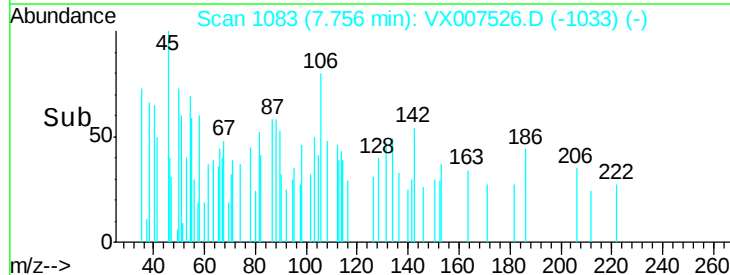
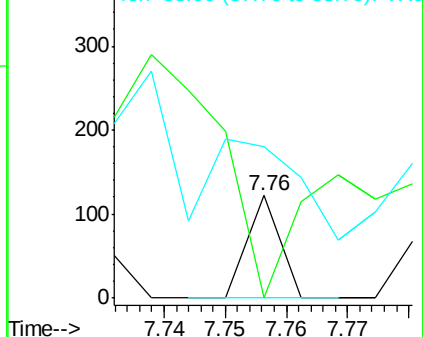
58 420.0 53.0 79.4#

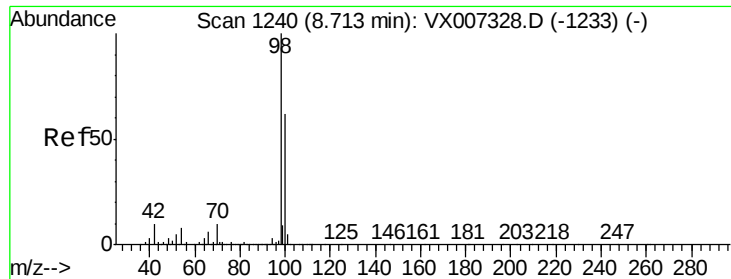


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 48.520 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007526.D

Acq: 13 Feb 2019 17:50

Instrument :

MSVOA_X

ClientSampleId :

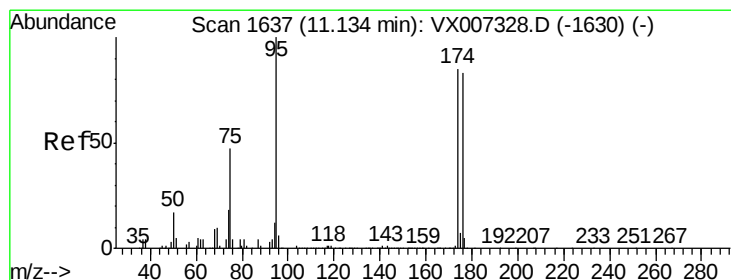
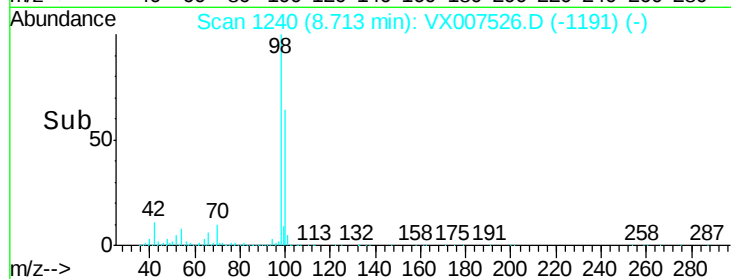
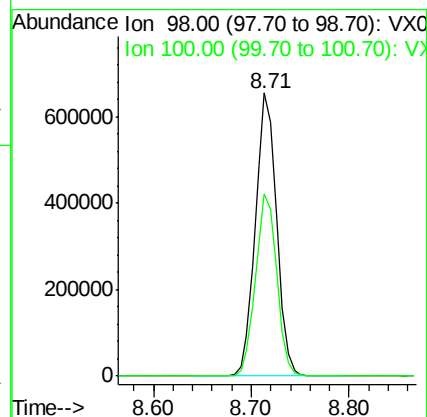
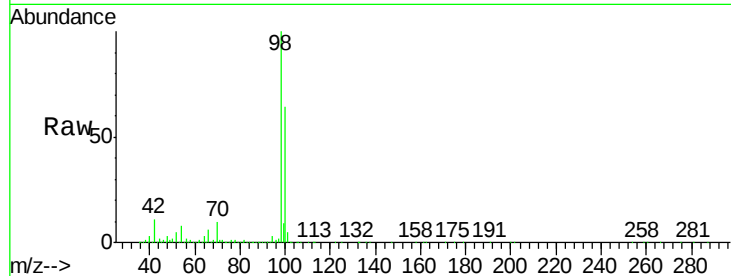
GW-1

Tot Ion: 98 Resp: 986655

Ion Ratio Lower Upper

98 100

100 64.4 51.6 77.4



#62

4-Bromofluorobenzene

Concen: 46.665 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX007526.D

Acq: 13 Feb 2019 17:50

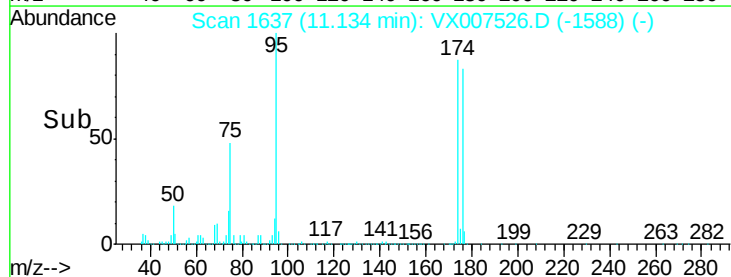
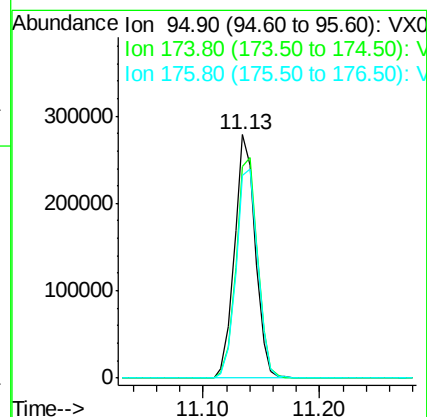
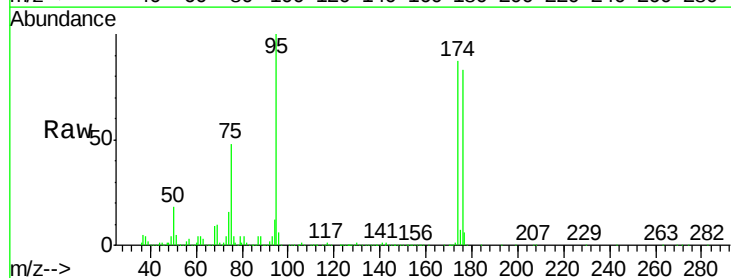
Tgt Ion: 95 Resp: 346459

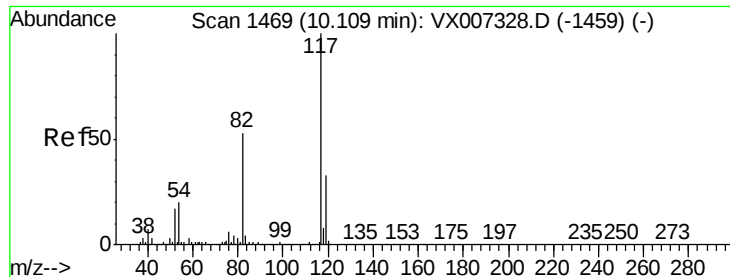
Ion Ratio Lower Upper

95 100

174 93.9 0.0 189.2

176 89.9 0.0 186.2

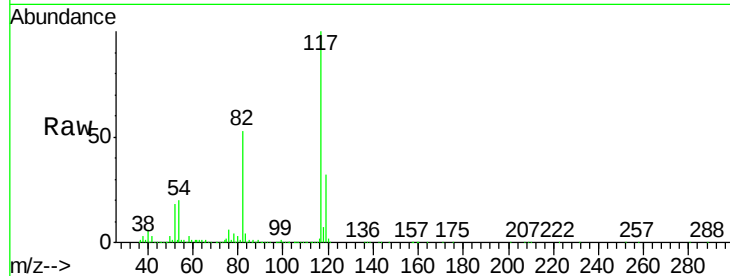




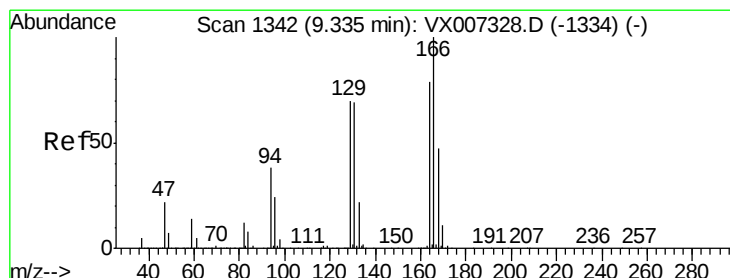
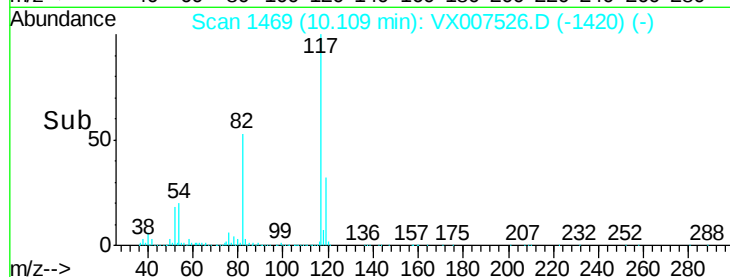
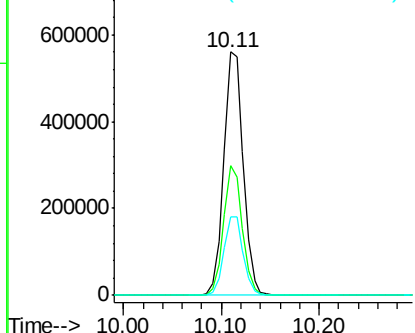
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX007526.D
Acq: 13 Feb 2019 17:50

Instrument :
MSVOA_X
ClientSampleId :
GW-1

Tot Ion:117 Resp: 771939
Ion Ratio Lower Upper
117 100
82 53.1 42.1 63.1
119 32.1 26.5 39.7

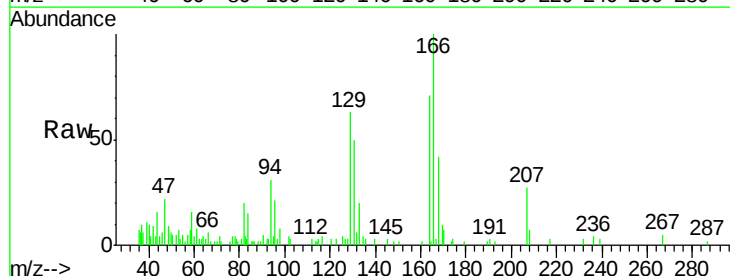


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

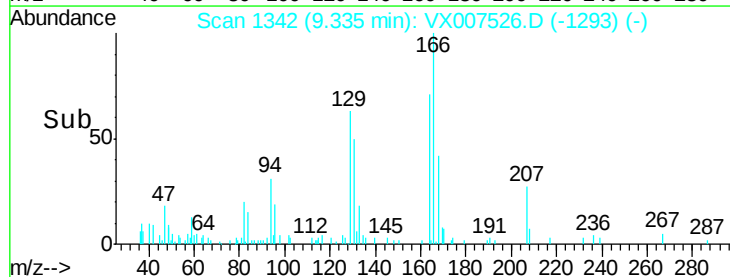
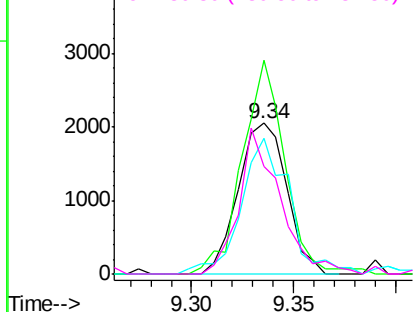


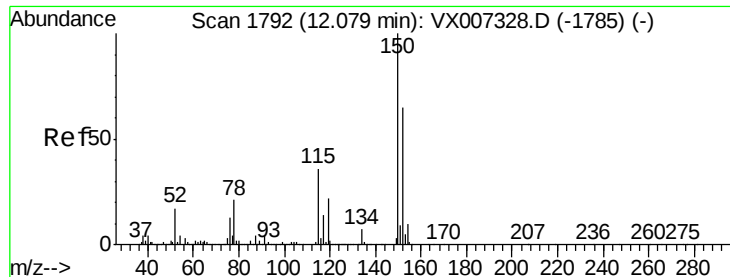
#64
Tetrachloroethene
Concen: 0.465 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX007526.D
Acq: 13 Feb 2019 17:50

Tgt Ion:164 Resp: 3380
Ion Ratio Lower Upper
164 100
166 141.6 101.0 151.4
129 86.9 70.5 105.7
131 70.9 69.8 104.6



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: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX007526.D

Acq: 13 Feb 2019 17:50

Instrument :

MSVOA_X

ClientSampled :

GW-1

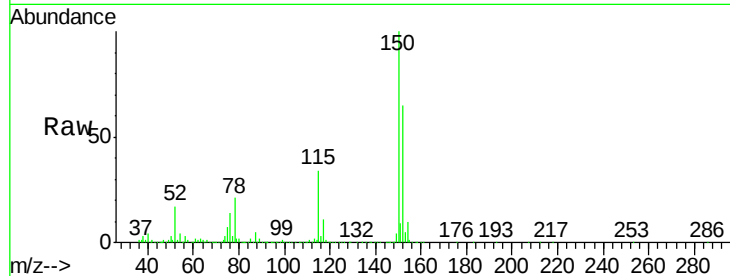
Tot Ion:152 Resp: 372745

Ion Ratio Lower Upper

152 100

115 54.5 38.0 114.0

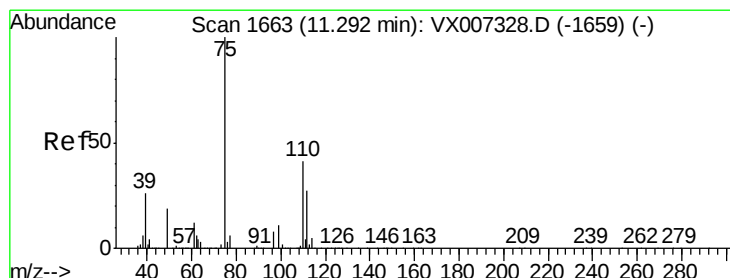
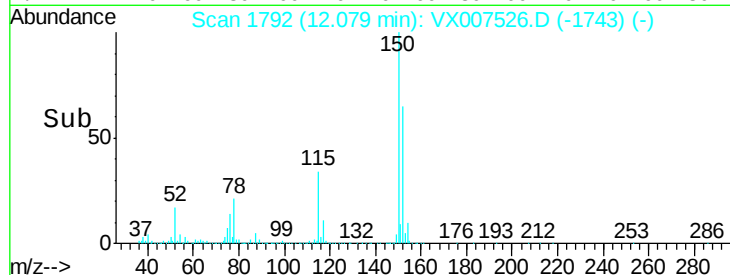
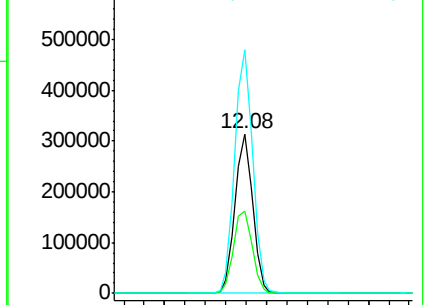
150 155.1 0.0 346.4



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: 22.739 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007526.D

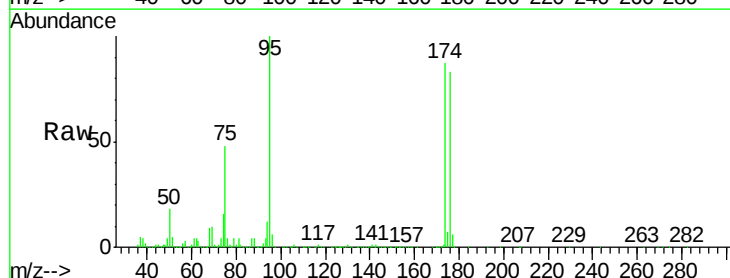
Acq: 13 Feb 2019 17:50

Tgt Ion: 75 Resp: 164866

Ion Ratio Lower Upper

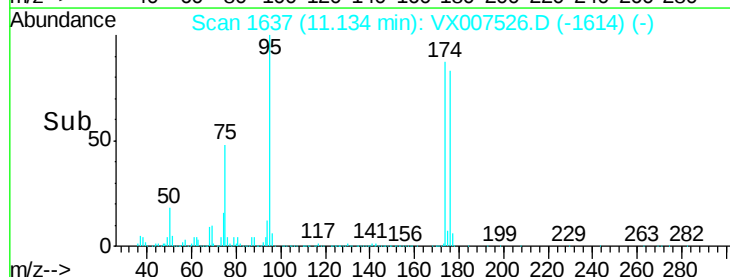
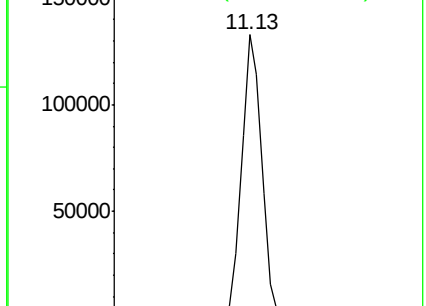
75 100

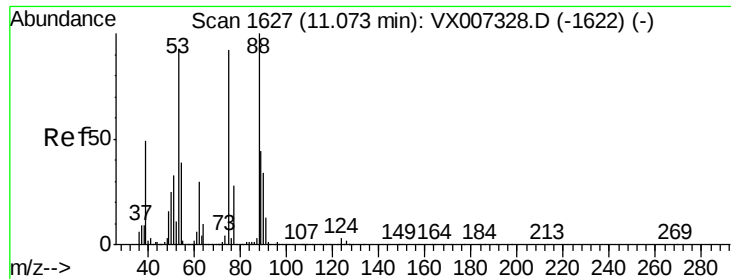
77 1.6 23.0 69.0#



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: 68.569 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007526.D

Acq: 13 Feb 2019 17:50

Instrument :

MSVOA_X

ClientSampleId :

GW-1

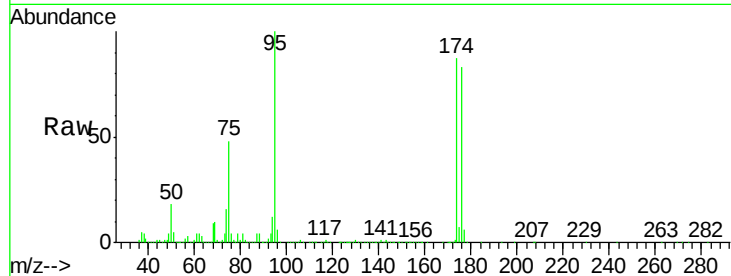
Tot Ion: 75 Resp: 164866

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.6#

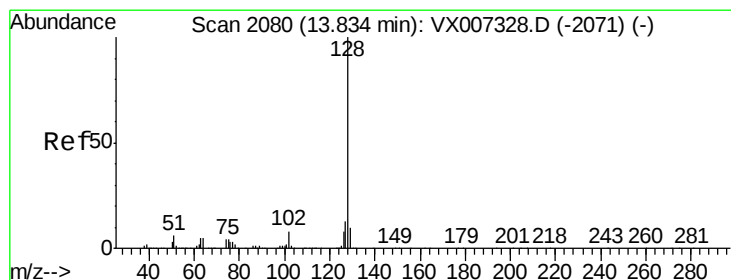
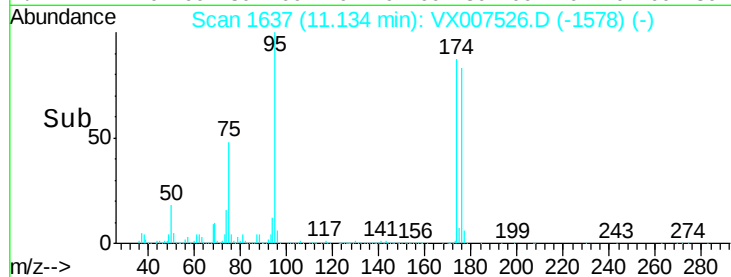
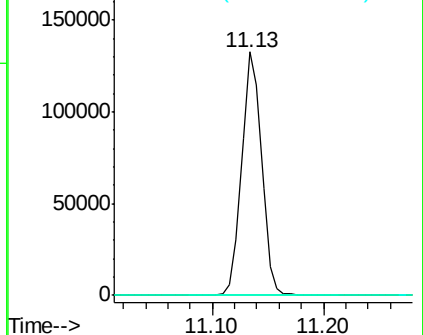
89 0.0 41.4 62.0#



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: 0.205 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX007526.D

Acq: 13 Feb 2019 17:50

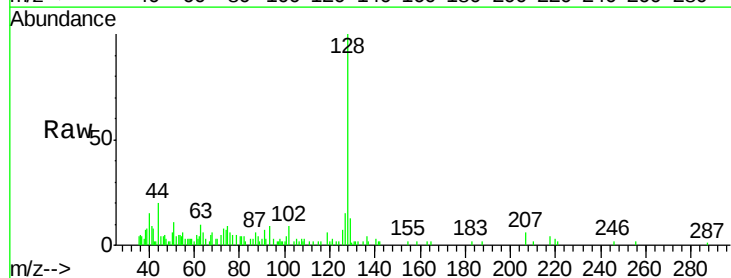
Tgt Ion:128 Resp: 5154

Ion Ratio Lower Upper

128 100

127 13.7 10.5 15.7

129 15.5 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

