

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080718\
 Data File : VX003912.D
 Acq On : 08 Aug 2018 06:44
 Operator : JC/MD
 Sample : J4344-14
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FL-0537

Quant Time: Aug 08 08:14:58 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080618W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 07:45:48 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	340185	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	529750	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	503712	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	277324	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	228018	50.56	ug/l	0.00
Spiked Amount			Recovery	=	101.12%	
35) Dibromofluoromethane	5.50	113	192966	48.08	ug/l	0.00
Spiked Amount			Recovery	=	96.16%	
50) Toluene-d8	8.72	98	749048	48.00	ug/l	0.00
Spiked Amount			Recovery	=	96.00%	
62) 4-Bromofluorobenzene	11.14	95	267155	52.90	ug/l	0.00
Spiked Amount			Recovery	=	105.80%	

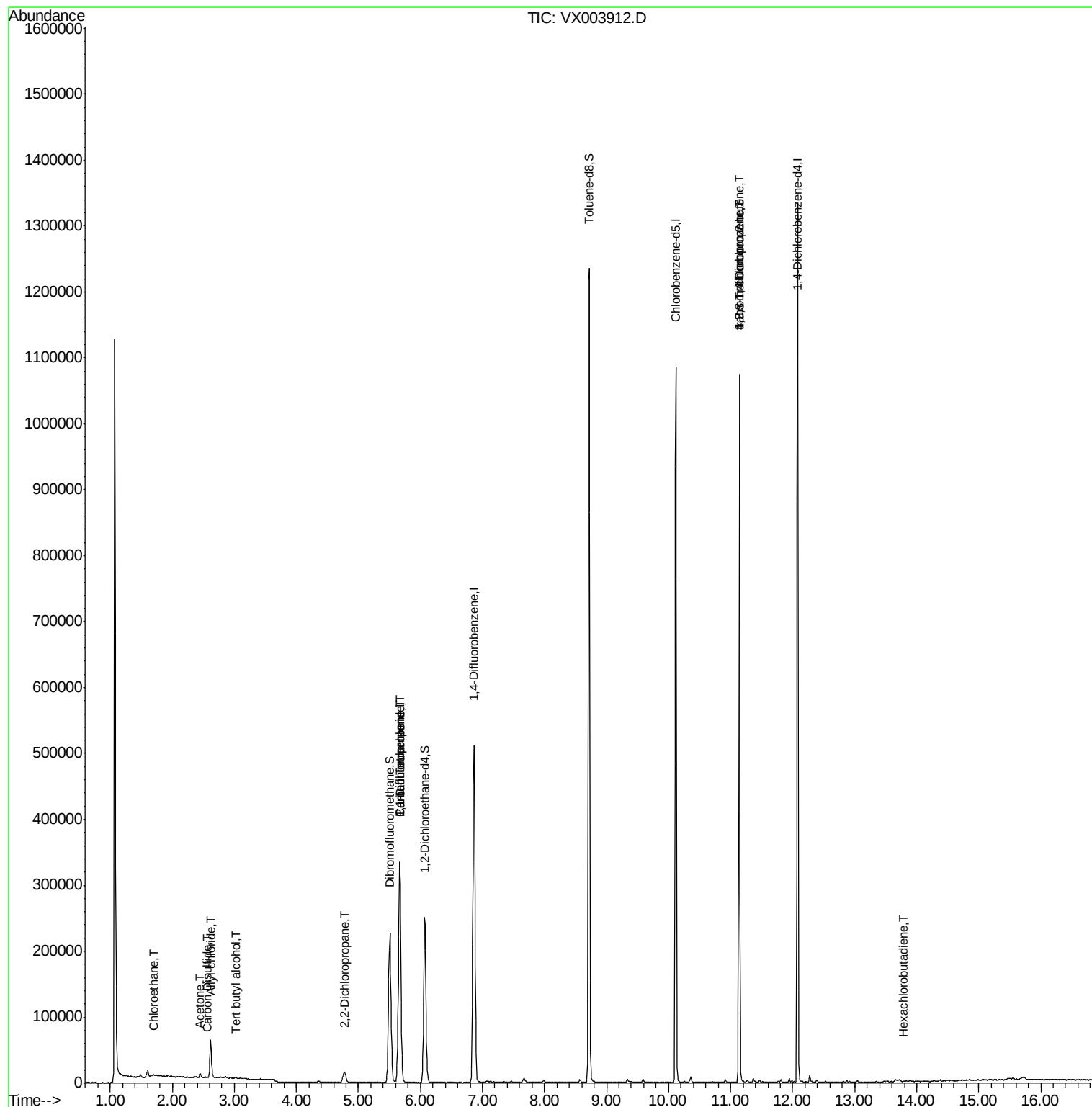
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	638	Below Cal		90
6) Chloroethane	1.70	64	11341	3.79 ug/l	#	56
11) Tert butyl alcohol	3.03	59	866	0.80 ug/l	#	81
13) Acrolein	2.29	56	325	Below Cal	#	61
14) Allyl chloride	2.62	41	5546	0.79 ug/l	#	61
16) Acetone	2.45	43	6508	2.43 ug/l		96
17) Carbon Disulfide	2.57	76	888	0.52 ug/l	#	93
20) Methylene Chloride	2.86	84	957	Below Cal	#	94
26) 2,2-Dichloropropane	4.78	77	1499	0.27 ug/l	#	51
36) 1,1-Dichloropropene	5.67	75	23174	3.91 ug/l	#	49
38) Carbon Tetrachloride	5.67	117	30135	5.34 ug/l	#	15
76) 1,2,3-Trichloropropane	11.14	75	127579	20.83 ug/l	#	36
81) trans-1,4-Dichloro-2-buten	11.14	75	127579	56.36 ug/l	#	9
88) 1,4-Dichlorobenzene	12.10	146	631	Below Cal	#	1
94) Hexachlorobutadiene	13.78	225	241	0.51 ug/l		80

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX003912.D

Acq: 08 Aug 2018 06:44

Instrument :

MSVOA_X

ClientSampleId :

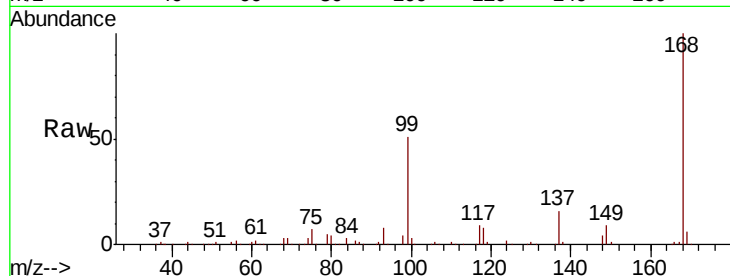
FL-0537

Tot Ion:168 Resp: 340185

Ion Ratio Lower Upper

168 100

99 50.7 40.1 60.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

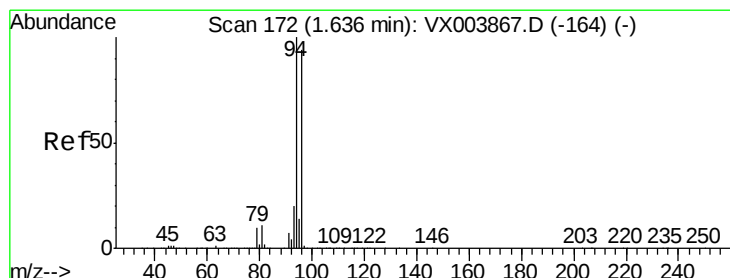
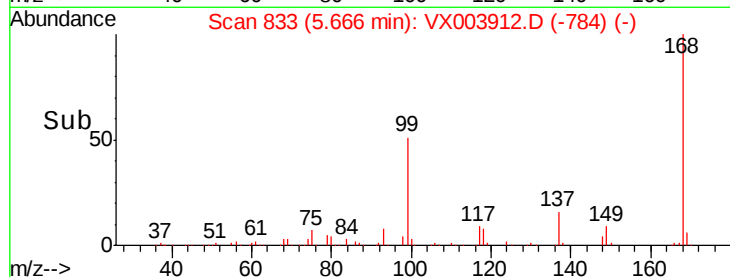
5.67

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX003912.D

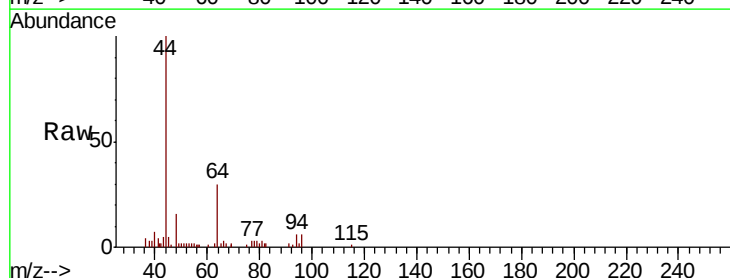
Acq: 08 Aug 2018 06:44

Tgt Ion: 94 Resp: 638

Ion Ratio Lower Upper

94 100

96 84.8 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

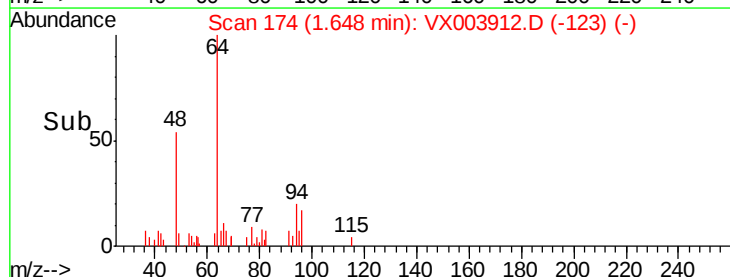
300

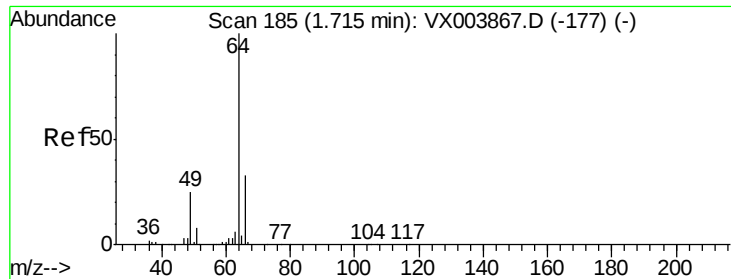
200

100

0

Time--> 1.60 1.65 1.70





#6

Chloroethane

Concen: 3.79 ug/l

RT: 1.70 min Scan# 183

Delta R.T. -0.01 min

Lab File: VX003912.D

Acq: 08 Aug 2018 06:44

Instrument :

MSVOA_X

ClientSampled :

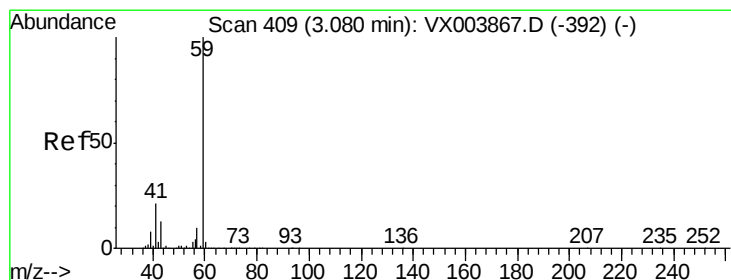
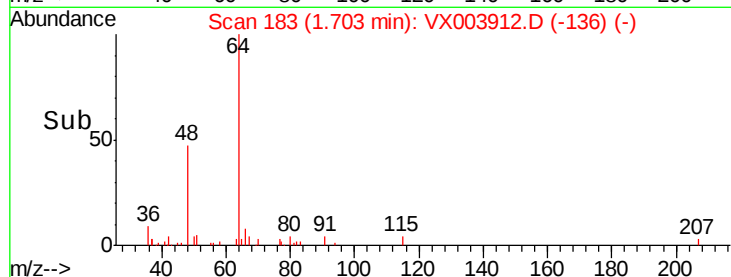
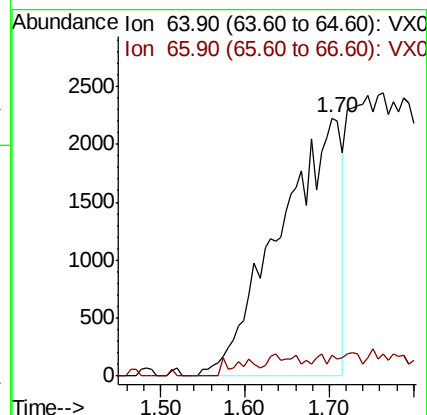
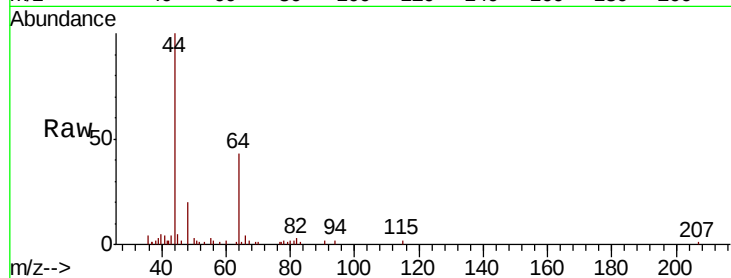
FL-0537

Tot Ion: 64 Resp: 11341

Ion Ratio Lower Upper

64 100

66 8.3 26.5 39.7#



#11

Tert butyl alcohol

Concen: 0.80 ug/l

RT: 3.03 min Scan# 400

Delta R.T. -0.05 min

Lab File: VX003912.D

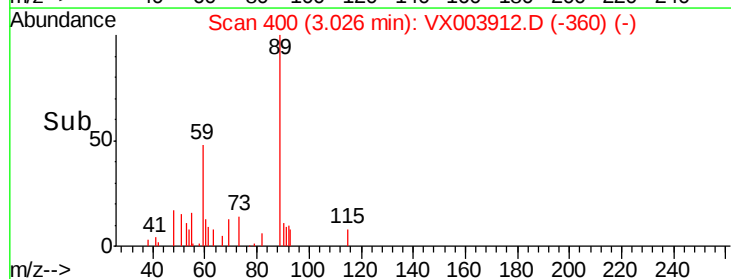
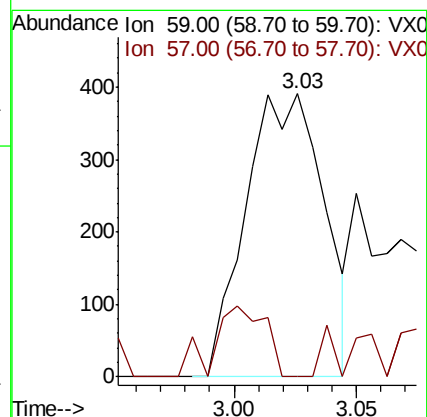
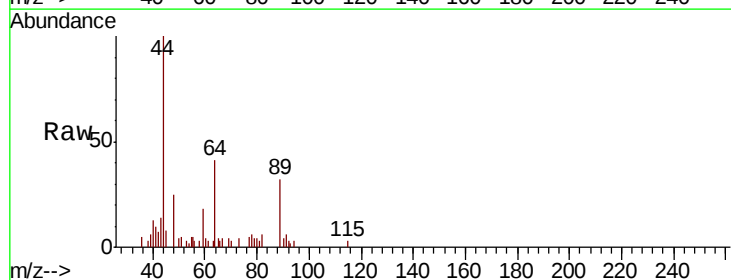
Acq: 08 Aug 2018 06:44

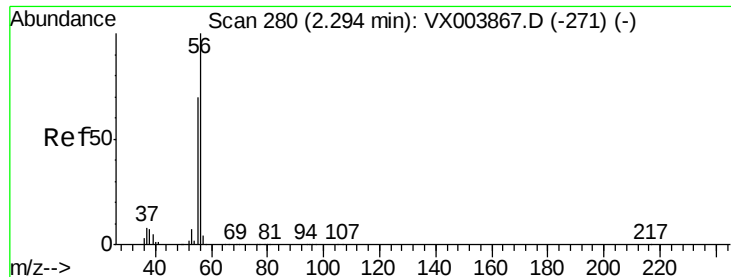
Tgt Ion: 59 Resp: 866

Ion Ratio Lower Upper

59 100

57 3.0 8.1 12.1#





#13

Acrolein

Concen: Below Cal

RT: 2.29 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX003912.D

Acq: 08 Aug 2018 06:44

Instrument :

MSVOA_X

ClientSampled :

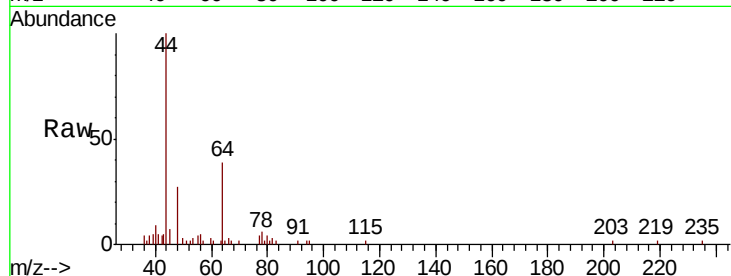
FL-0537

Tot Ion: 56 Resp: 325

Ion Ratio Lower Upper

56 100

55 38.2 56.1 84.1#

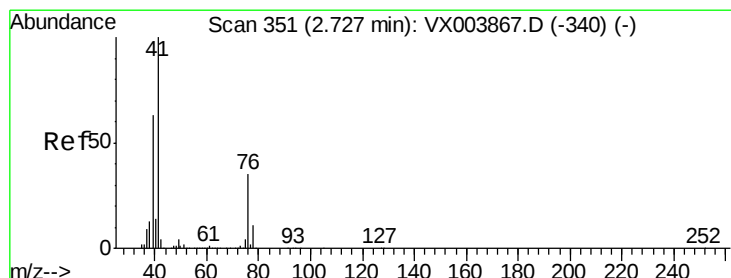
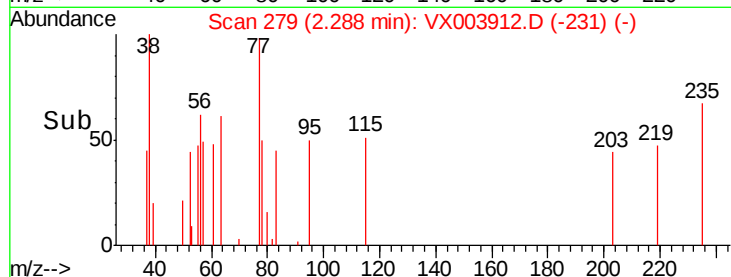


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

2.29

Time-->



#14

Allyl chloride

Concen: 0.79 ug/l

RT: 2.62 min Scan# 334

Delta R.T. -0.10 min

Lab File: VX003912.D

Acq: 08 Aug 2018 06:44

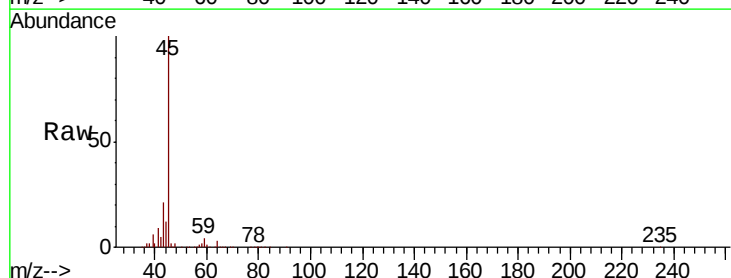
Tgt Ion: 41 Resp: 5546

Ion Ratio Lower Upper

41 100

39 80.2 47.4 71.0#

76 0.0 26.0 39.0#



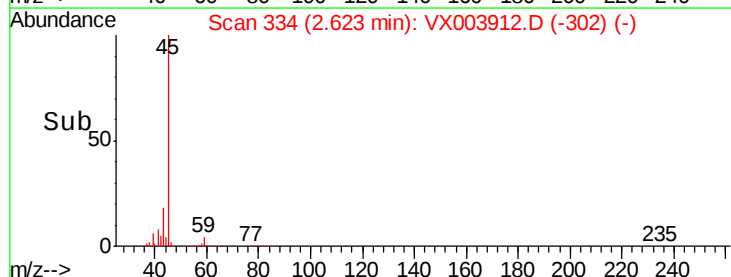
Abundance Ion 41.00 (40.70 to 41.70): VX0

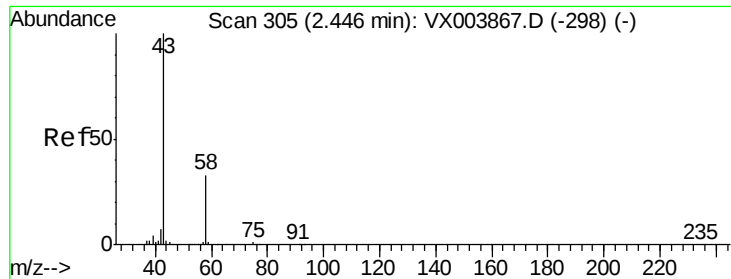
Ion 39.00 (38.70 to 39.70): VX0

Ion 75.90 (75.60 to 76.60): VX0

2.62

Time-->





#16

Acetone

Concen: 2.43 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX003912.D

Acq: 08 Aug 2018 06:44

Instrument :

MSVOA_X

ClientSampleId :

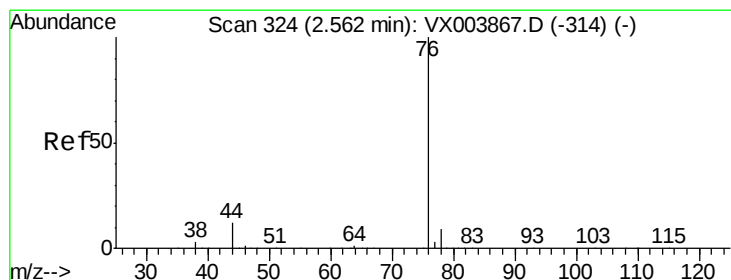
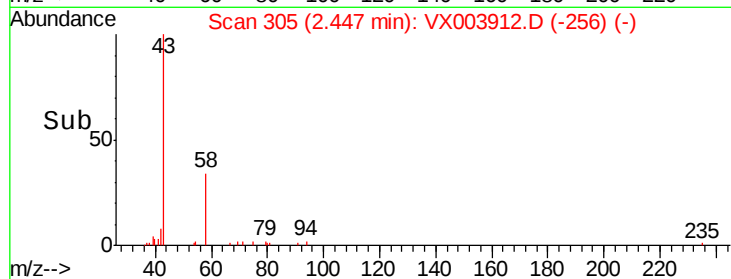
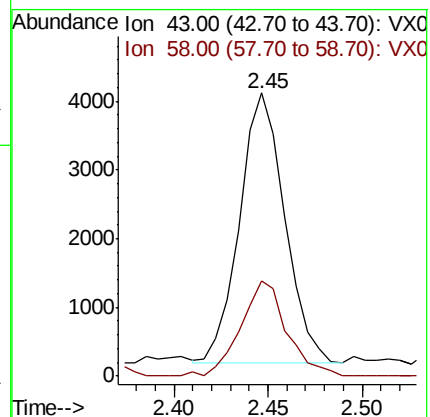
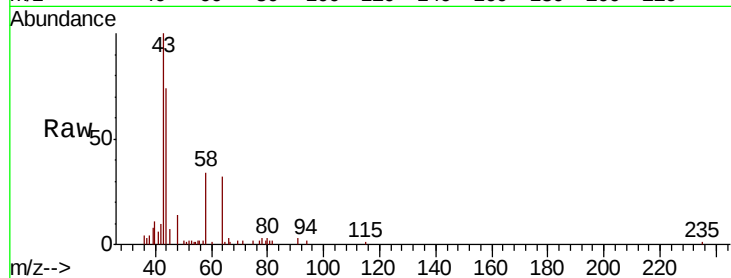
FL-0537

Tot Ion: 43 Resp: 6508

Ion Ratio Lower Upper

43 100

58 35.4 26.4 39.6



#17

Carbon Disulfide

Concen: 0.52 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.01 min

Lab File: VX003912.D

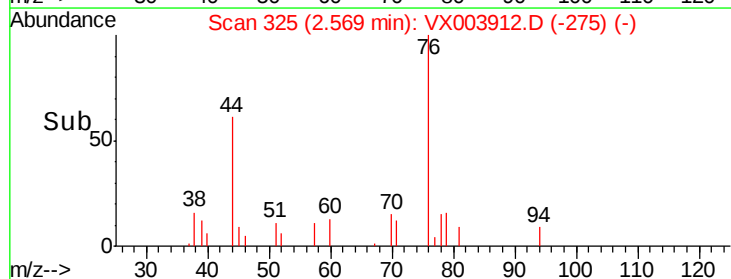
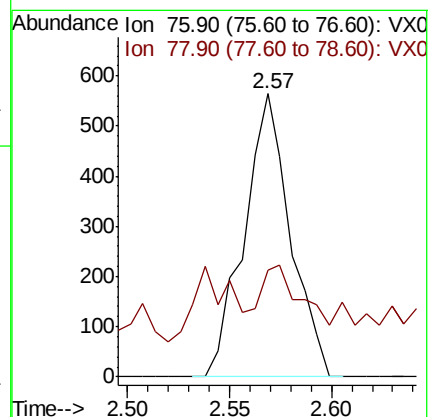
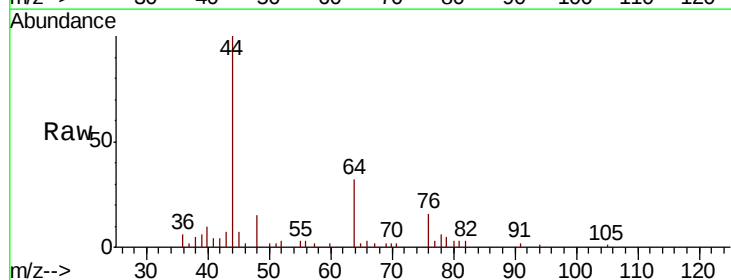
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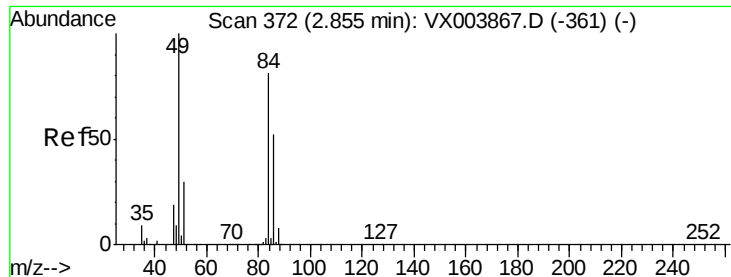
Tgt Ion: 76 Resp: 888

Ion Ratio Lower Upper

76 100

78 12.1 7.5 11.3#

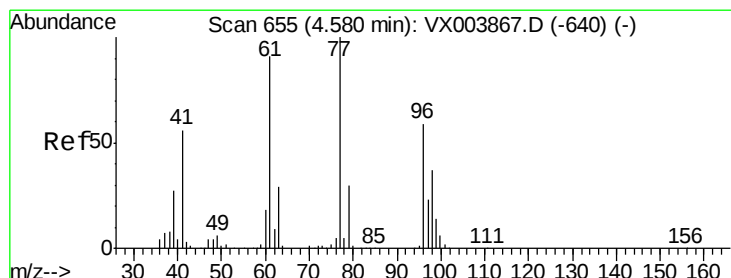
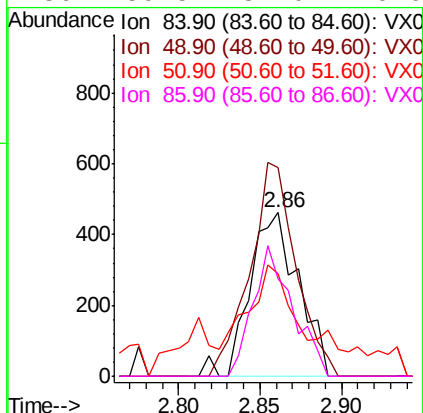
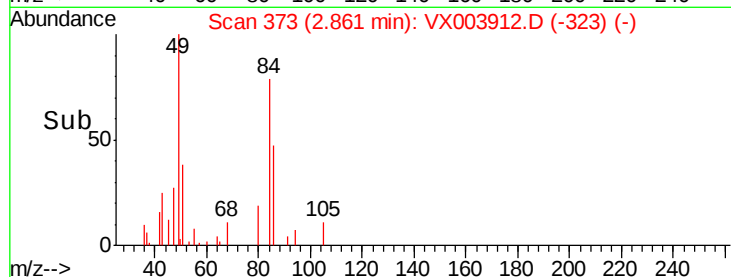
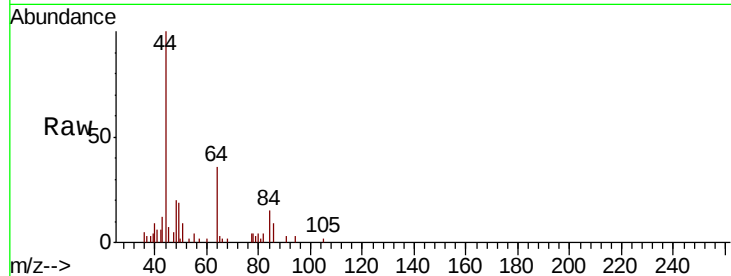




#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX003912.D
Acq: 08 Aug 2018 06:44

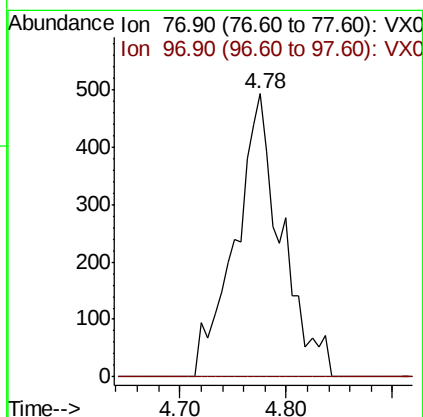
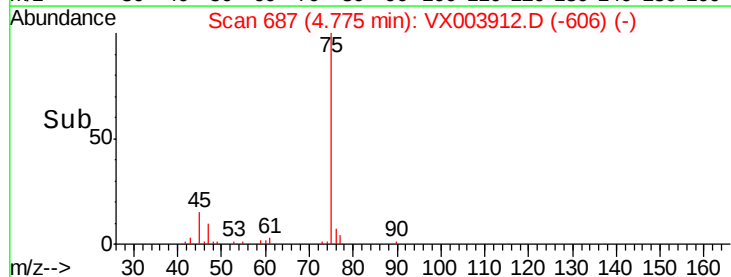
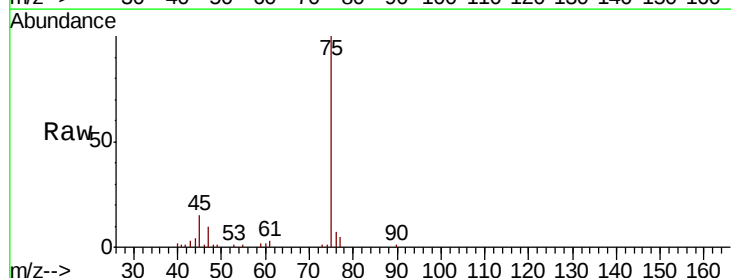
Instrument :
MSVOA_X
ClientSampleId :
FL-0537

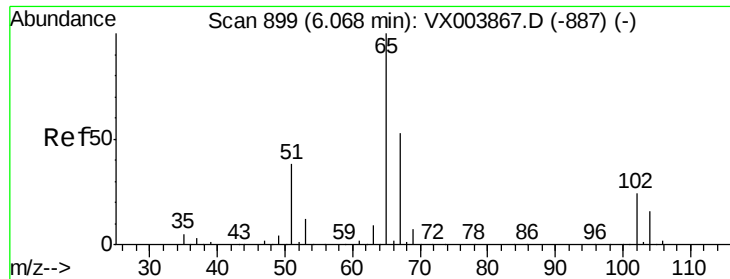
Tot Ion: 84 Resp: 957
Ion Ratio Lower Upper
84 100
49 127.3 98.9 148.3
51 45.9 29.9 44.9#
86 59.5 51.0 76.6



#26
2,2-Dichloropropane
Concen: 0.27 ug/l
RT: 4.78 min Scan# 687
Delta R.T. 0.20 min
Lab File: VX003912.D
Acq: 08 Aug 2018 06:44

Tgt Ion: 77 Resp: 1499
Ion Ratio Lower Upper
77 100
97 0.0 11.9 35.9#

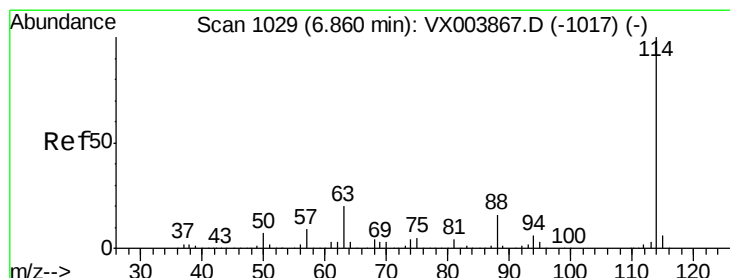
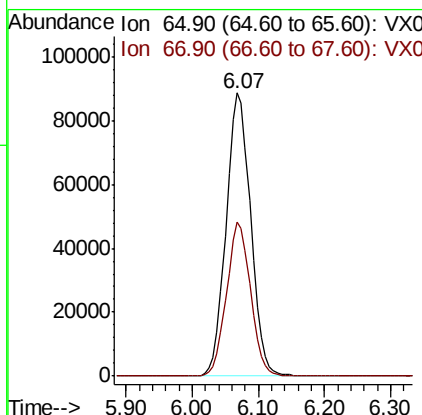
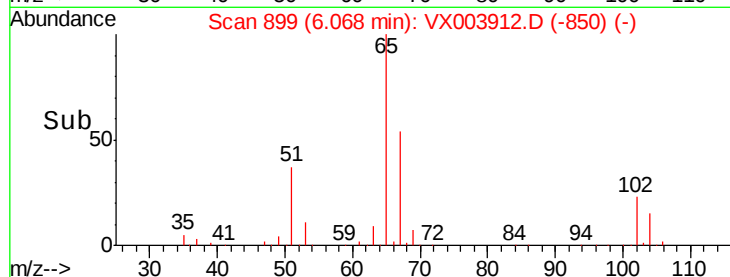
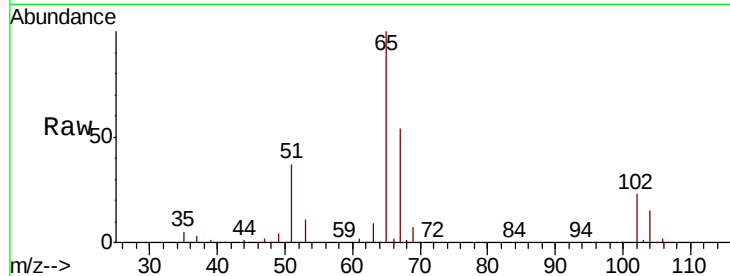




#33
 1,2-Dichloroethane-d4
 Concen: 50.56 ug/l
 RT: 6.07 min Scan# 899
 Delta R.T. 0.00 min
 Lab File: VX003912.D
 Acq: 08 Aug 2018 06:44

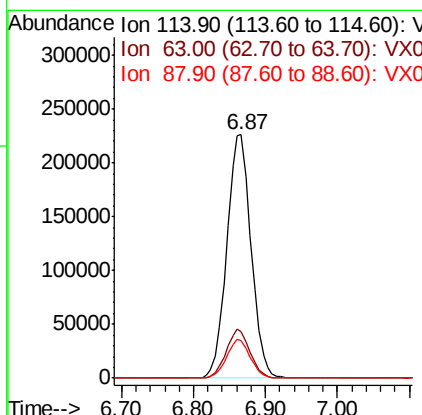
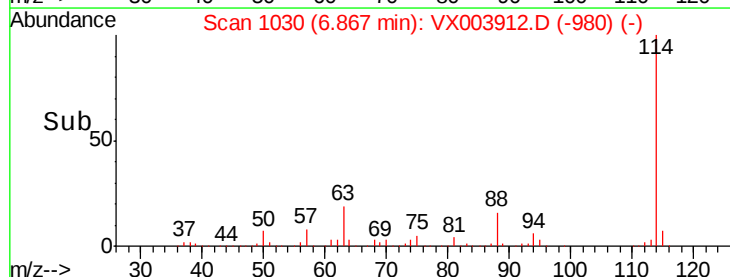
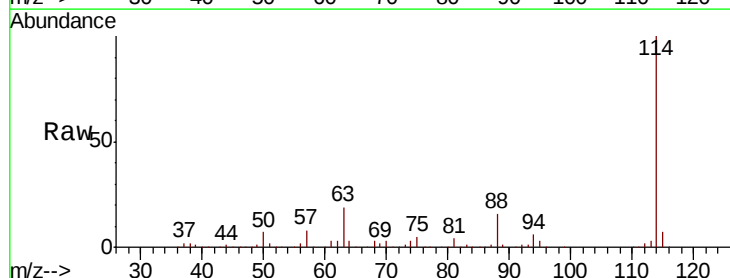
Instrument :
 MSVOA_X
 ClientSampleId :
 FL-0537

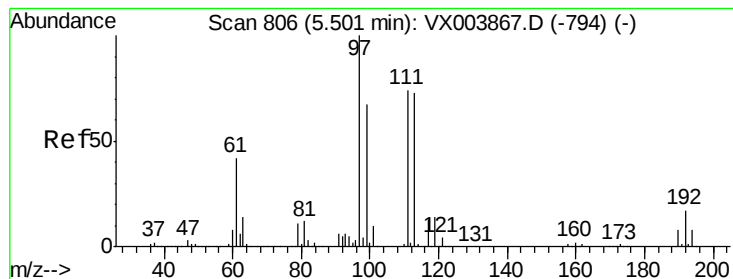
Tot Ion: 65 Resp: 228018
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.01 min
 Lab File: VX003912.D
 Acq: 08 Aug 2018 06:44

Tgt Ion: 114 Resp: 529750
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 39.0
 88 15.5 0.0 32.0





#35

Dibromofluoromethane

Concen: 48.08 ug/l

RT: 5.50 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX003912.D

Acq: 08 Aug 2018 06:44

Instrument :

MSVOA_X

ClientSampleId :

FL-0537

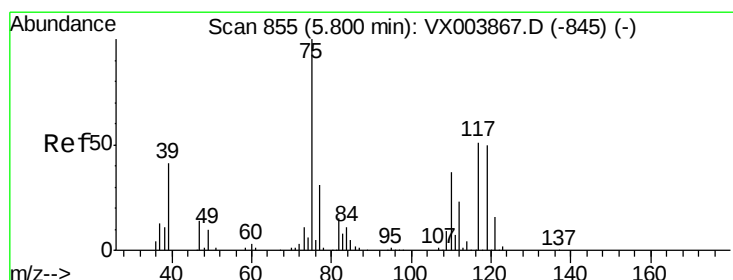
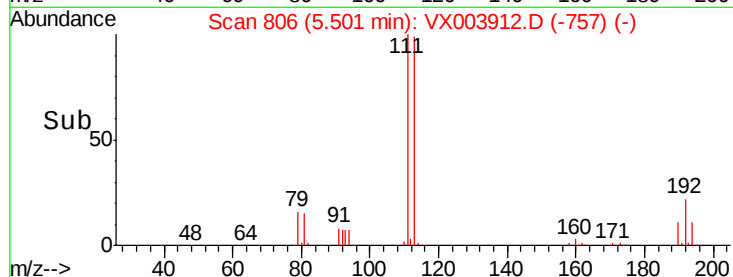
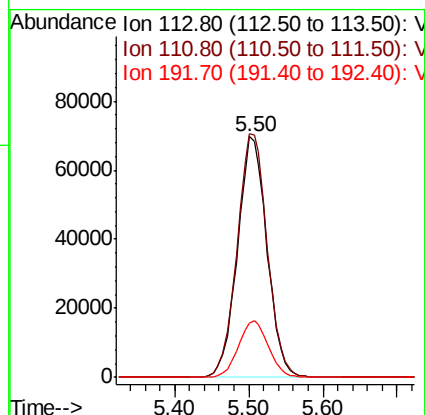
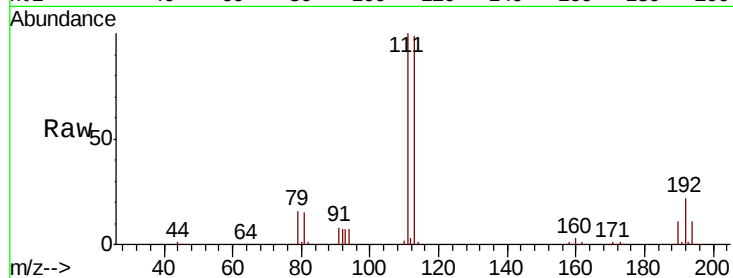
Tot Ion:113 Resp: 192966

Ion Ratio Lower Upper

113 100

111 103.6 82.0 123.0

192 23.9 19.0 28.4



#36

1,1-Dichloropropene

Concen: 3.91 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX003912.D

Acq: 08 Aug 2018 06:44

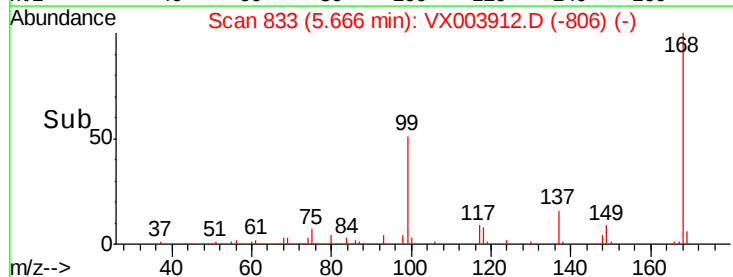
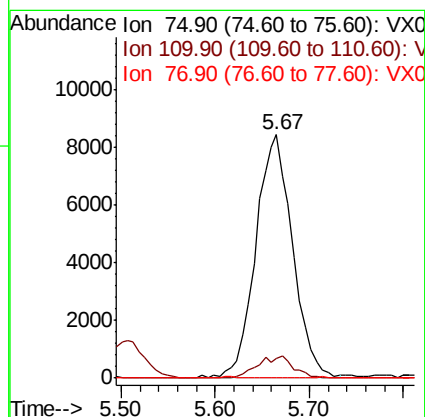
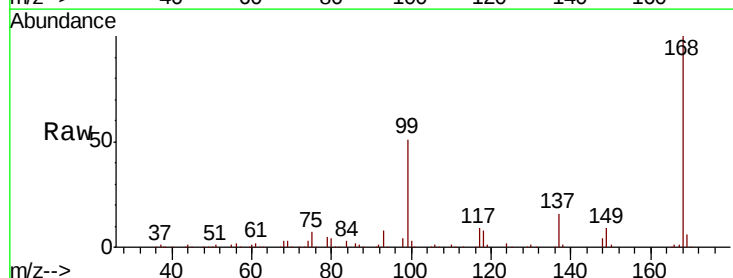
Tgt Ion: 75 Resp: 23174

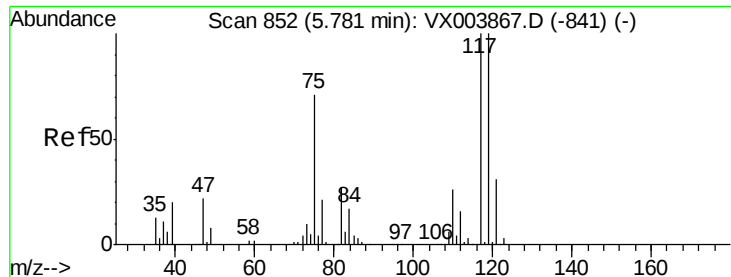
Ion Ratio Lower Upper

75 100

110 8.6 18.2 54.6#

77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.34 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003912.D

Acq: 08 Aug 2018 06:44

Instrument :

MSVOA_X

ClientSampleId :

FL-0537

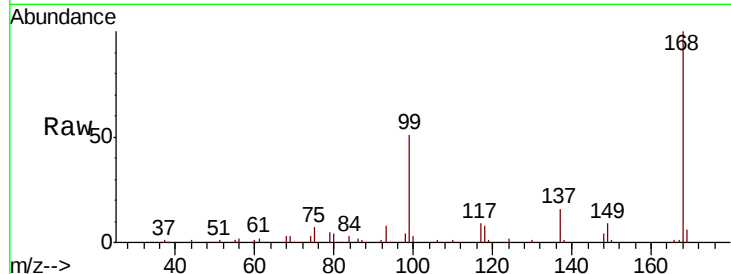
Tot Ion:117 Resp: 30135

Ion Ratio Lower Upper

117 100

119 6.2 79.5 119.3#

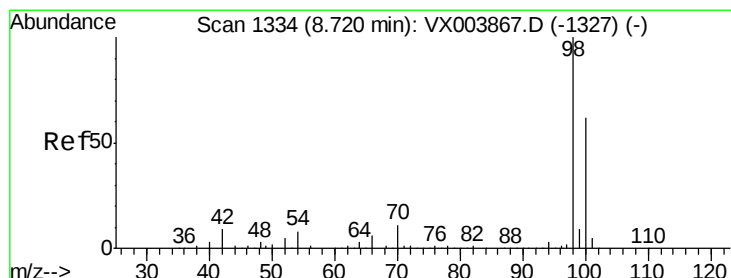
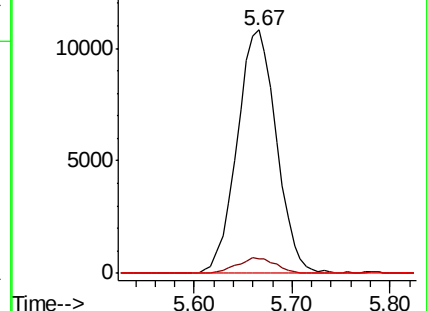
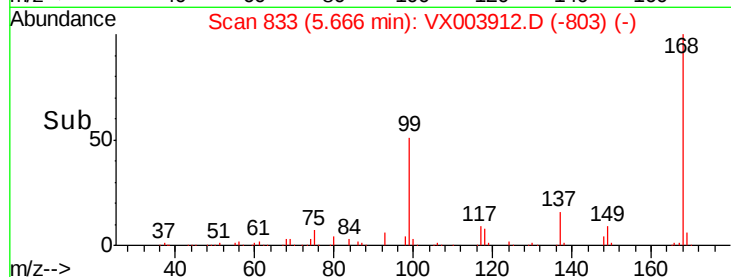
121 0.0 25.0 37.4#



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



#50

Toluene-d8

Concen: 48.00 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003912.D

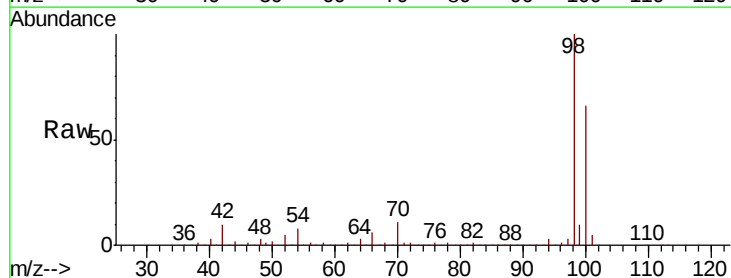
Acq: 08 Aug 2018 06:44

Tgt Ion: 98 Resp: 749048

Ion Ratio Lower Upper

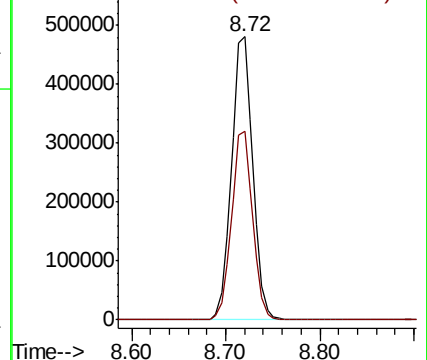
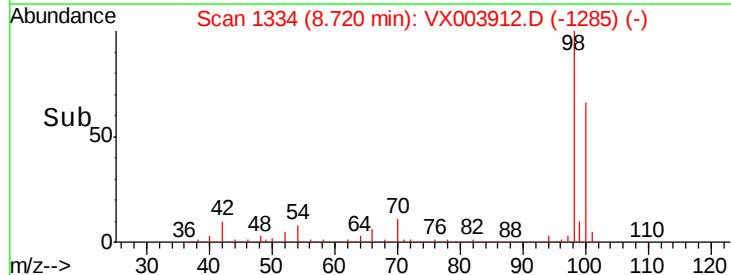
98 100

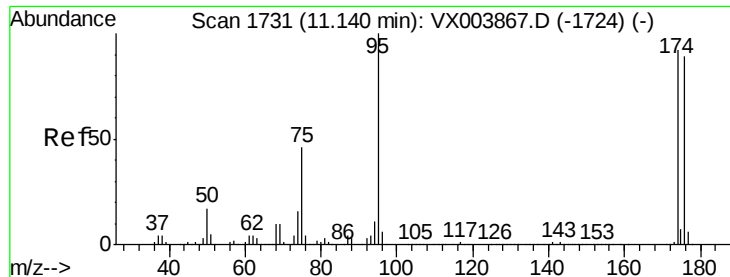
100 66.0 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

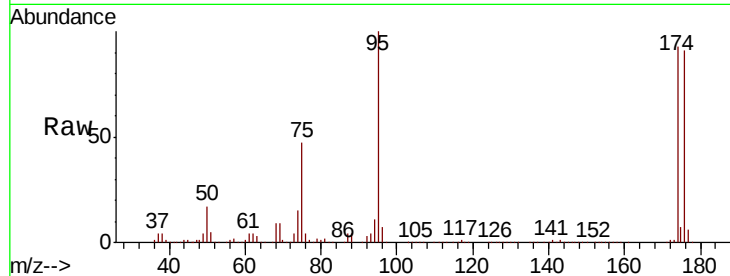




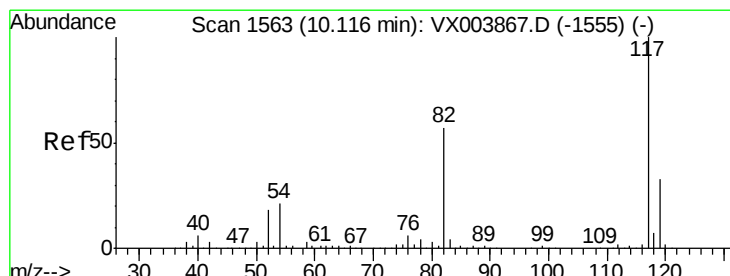
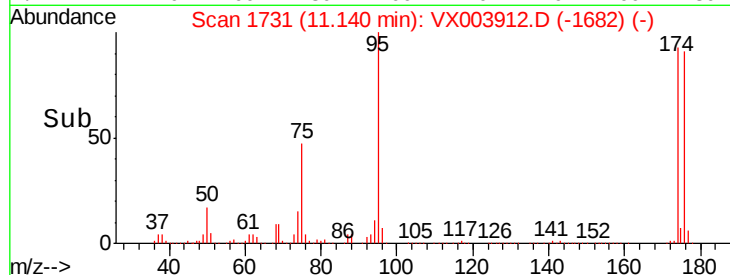
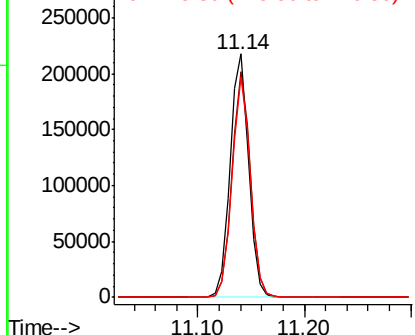
#62
4-Bromofluorobenzene
Concen: 52.90 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003912.D
Acq: 08 Aug 2018 06:44

Instrument :
MSVOA_X
ClientSampled :
FL-0537

Tot Ion: 95 Resp: 267155
Ion Ratio Lower Upper
95 100
174 91.6 0.0 182.8
176 88.8 0.0 179.0

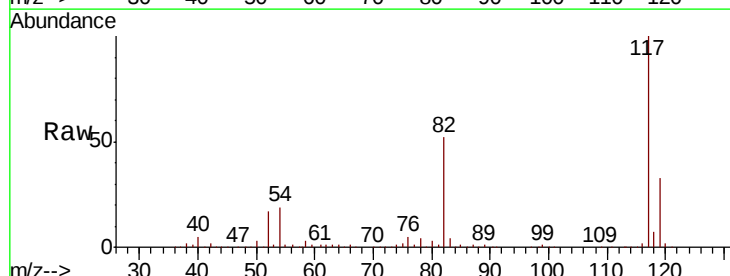


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

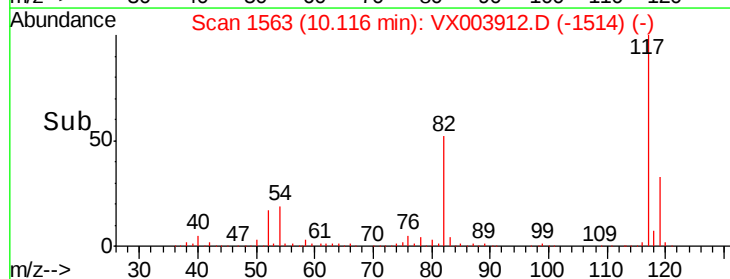
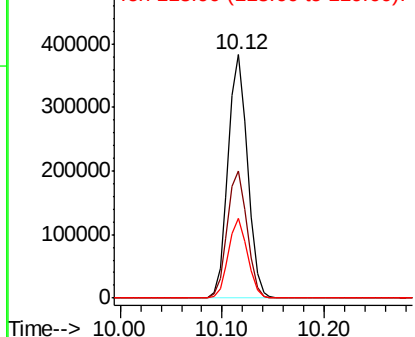


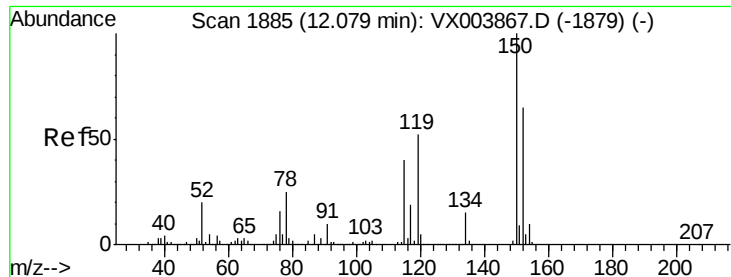
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003912.D
Acq: 08 Aug 2018 06:44

Tgt Ion: 117 Resp: 503712
Ion Ratio Lower Upper
117 100
82 52.2 45.4 68.0
119 32.6 26.6 40.0



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX003912.D

Acq: 08 Aug 2018 06:44

Instrument :

MSVOA_X

ClientSampleId :

FL-0537

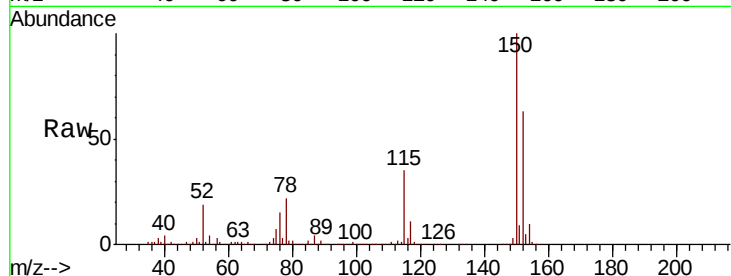
Tot Ion:152 Resp: 277324

Ion Ratio Lower Upper

152 100

115 55.3 39.1 117.3

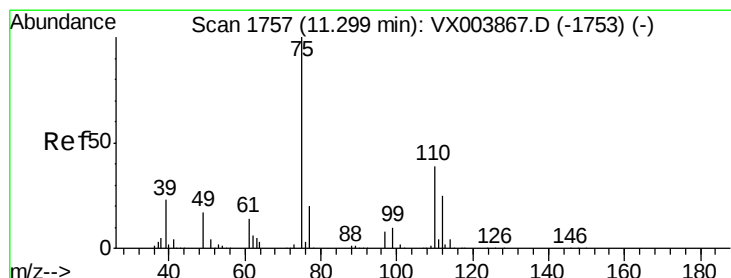
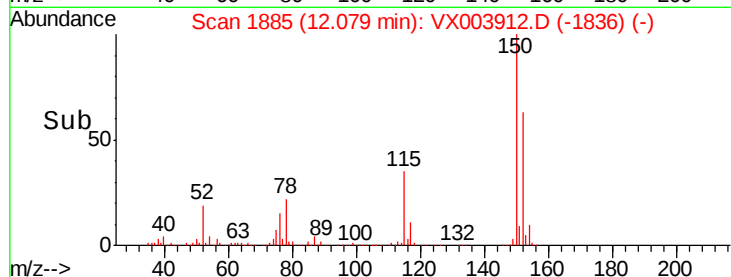
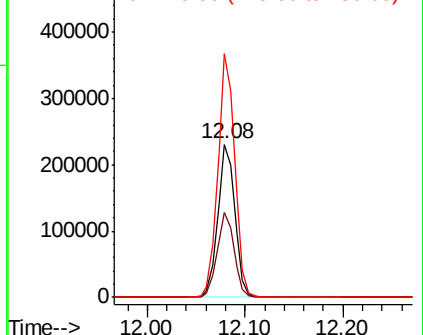
150 158.0 0.0 349.2



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: 20.83 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003912.D

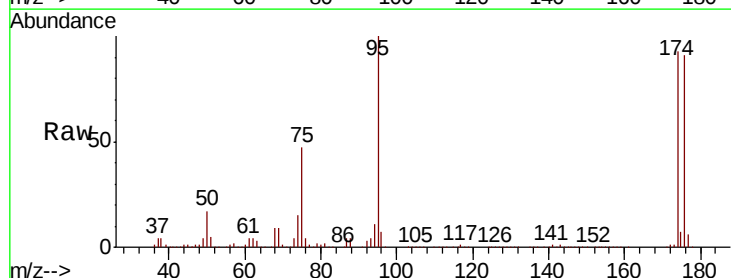
Acq: 08 Aug 2018 06:44

Tgt Ion: 75 Resp: 127579

Ion Ratio Lower Upper

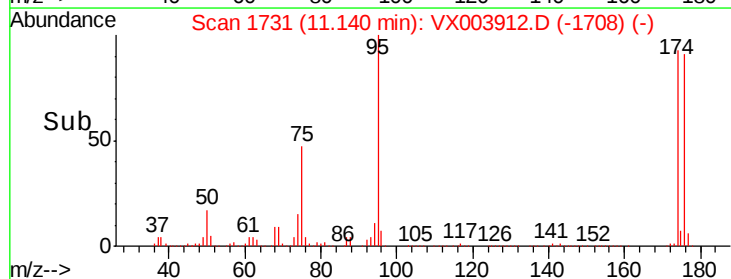
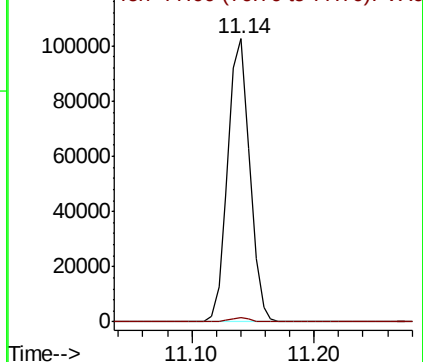
75 100

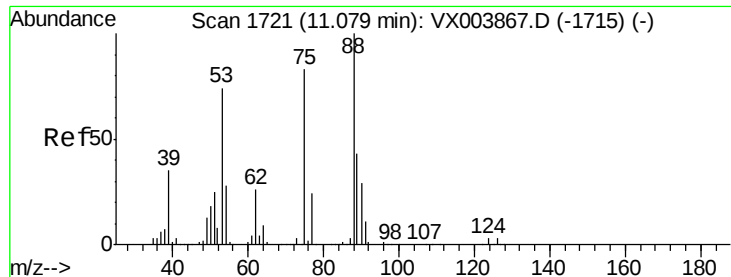
77 1.4 20.8 62.5#



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: 56.36 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003912.D

Acq: 08 Aug 2018 06:44

Instrument :

MSVOA_X

ClientSampled :

FL-0537

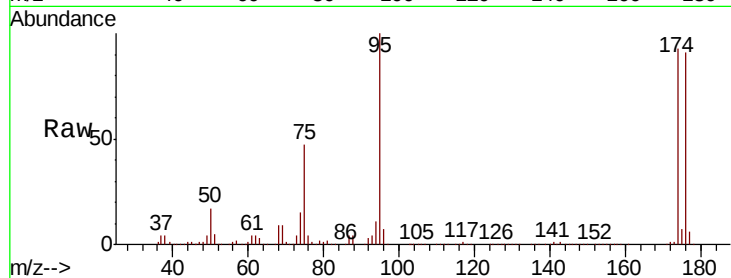
Tot Ion: 75 Resp: 127579

Ion Ratio Lower Upper

75 100

53 0.1 80.3 120.5#

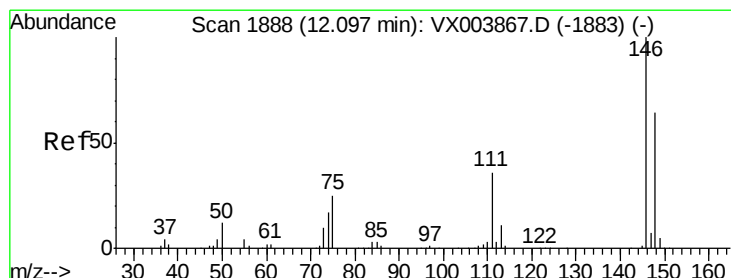
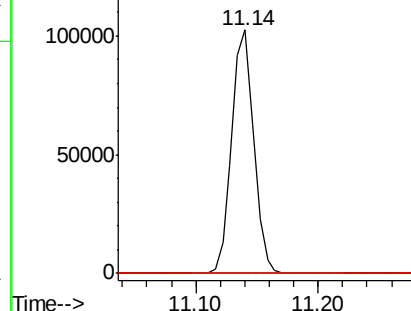
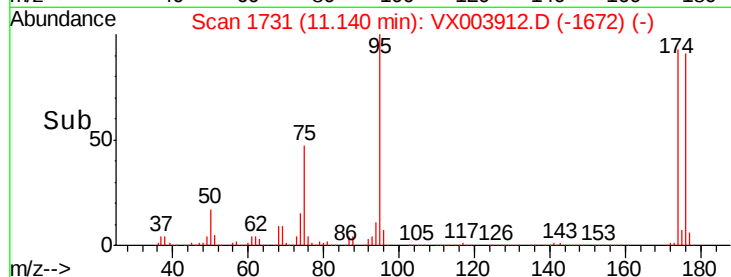
89 0.0 37.8 56.8#



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



#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 12.10 min Scan# 1888

Delta R.T. 0.00 min

Lab File: VX003912.D

Acq: 08 Aug 2018 06:44

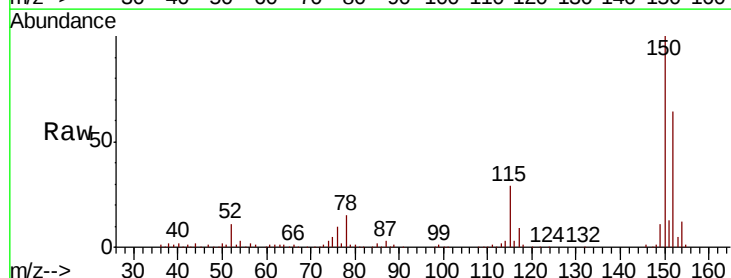
Tgt Ion: 146 Resp: 631

Ion Ratio Lower Upper

146 100

111 572.1 18.4 55.0#

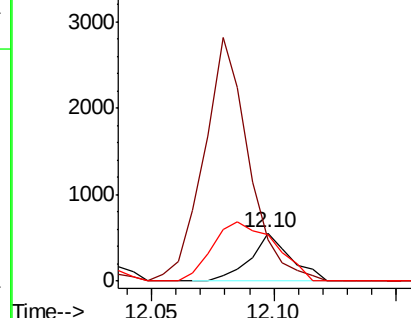
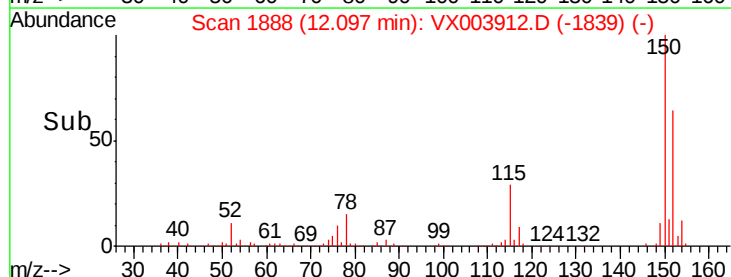
148 193.2 32.3 96.8#

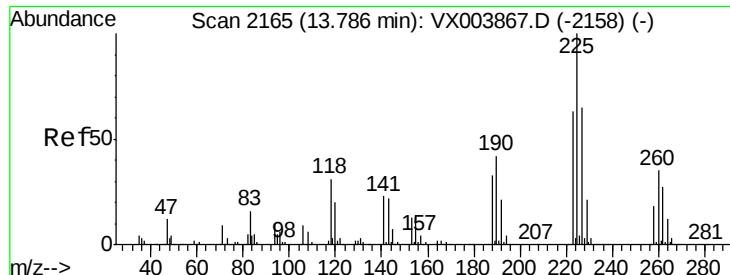


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#94

Hexachlorobutadiene

Concen: 0.51 ug/l

RT: 13.78 min Scan# 2164

Delta R.T. -0.01 min

Lab File: VX003912.D

Acq: 08 Aug 2018 06:44

Instrument :

MSVOA_X

ClientSampleId :

FL-0537

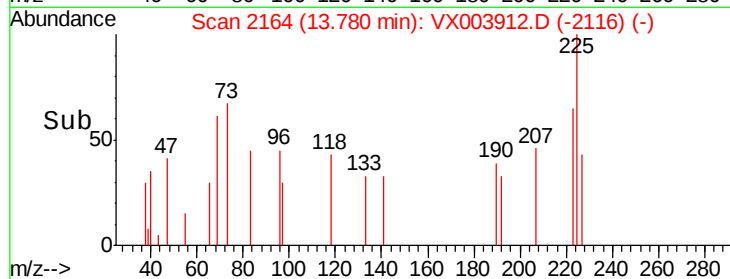
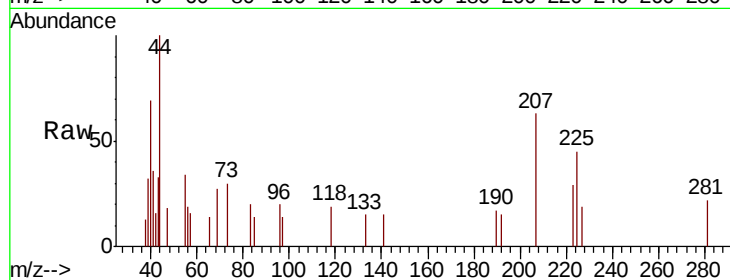
Tot Ion:225 Resp: 241

Ion Ratio Lower Upper

225 100

223 68.5 31.4 94.0

227 39.0 32.1 96.5



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

