

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX061218\
 Data File : VX002465.D
 Acq On : 12 Jun 2018 14:38
 Operator : JC/MD
 Sample : J3329-13
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-31(0-5)

Quant Time: Jun 12 14:56:01 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 05 03:22:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	208395	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	306722	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	288021	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	165277	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	150402	50.50	ug/l	0.00
Spiked Amount			Recovery	=	101.00%	
35) Dibromofluoromethane	5.51	113	113104	46.89	ug/l	0.00
Spiked Amount			Recovery	=	93.78%	
50) Toluene-d8	8.72	98	444674	48.10	ug/l	0.00
Spiked Amount			Recovery	=	96.20%	
62) 4-Bromofluorobenzene	11.14	95	158729	44.52	ug/l	0.00
Spiked Amount			Recovery	=	89.04%	

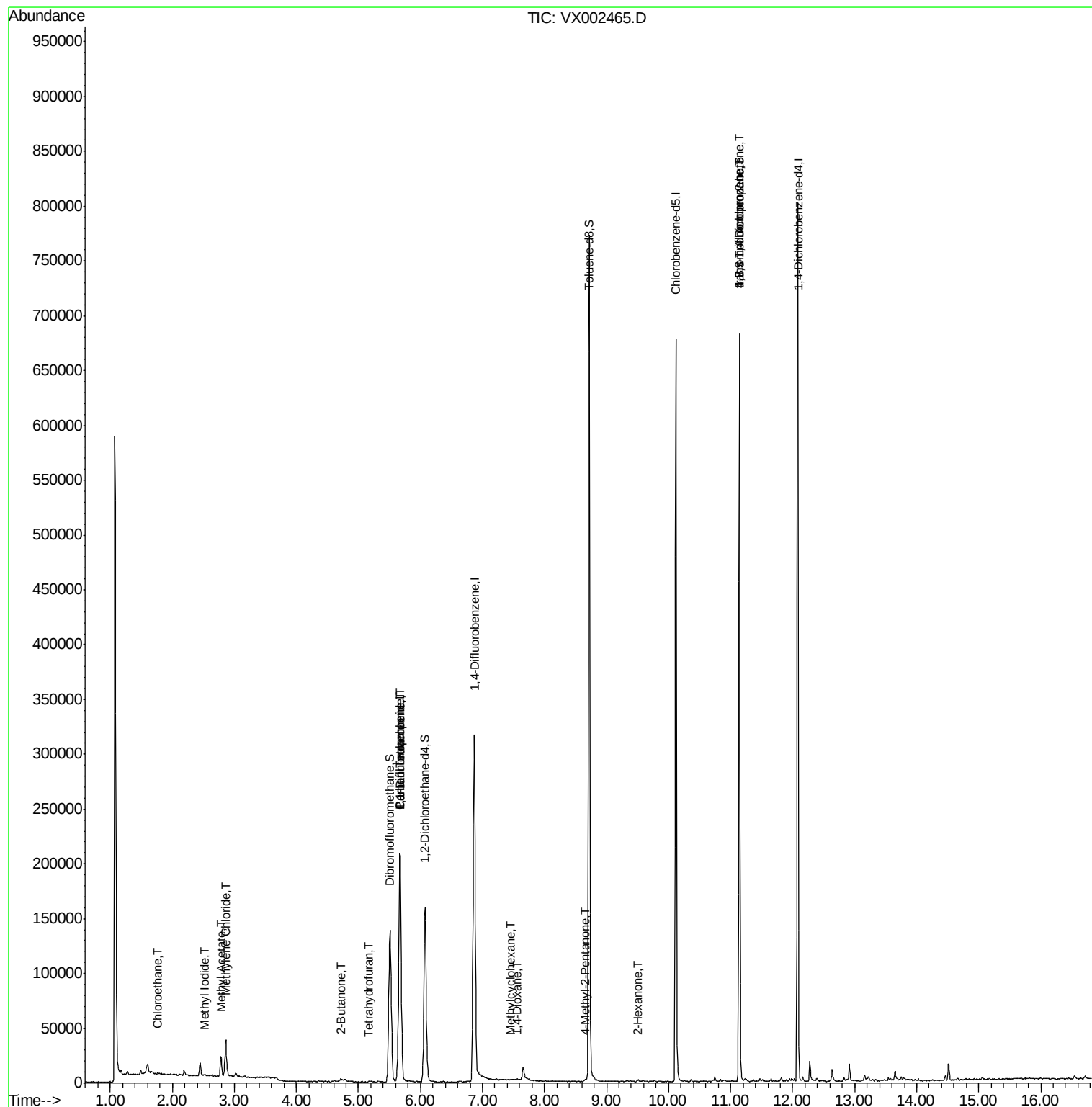
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	545	Below Cal		90
5) Bromomethane	1.62	94	143	Below Cal	#	33
6) Chloroethane	1.76	64	577	0.33	ug/l	# 43
8) Diethyl Ether	2.19	74	1907	Below Cal		98
10) Methyl Iodide	2.52	142	1424	0.45	ug/l	96
11) Tert butyl alcohol	3.02	59	1945	Below Cal	#	87
13) Acrolein	2.31	56	60	Below Cal	#	43
15) Acrylonitrile	3.14	53	690	Below Cal	#	26
16) Acetone	2.45	43	13240	Below Cal		100
18) Methyl Acetate	2.78	43	21378	4.72	ug/l	97
19) Methyl tert-butyl Ether	3.21	73	53	Below Cal	#	54
20) Methylene Chloride	2.86	84	14080	3.40	ug/l	95
22) Diisopropyl ether	3.85	45	54	Below Cal	#	62
25) 2-Butanone	4.71	43	3837	1.88	ug/l	92
28) Bromochloromethane	5.00	49	41	Below Cal	#	13
29) Tetrahydrofuran	5.16	42	476	0.36	ug/l	# 44
36) 1,1-Dichloropropene	5.67	75	15148	4.70	ug/l	# 52
38) Carbon Tetrachloride	5.67	117	19506	5.78	ug/l	# 15
39) Methylcyclohexane	7.46	83	59	0.28	ug/l	# 16
49) 1,4-Dioxane	7.55	88	19	0.31	ug/l	# 1
51) 4-Methyl-2-Pentanone	8.66	43	1328	0.32	ug/l	# 84
59) 2-Hexanone	9.50	43	1101	0.35	ug/l	# 88
76) 1,2,3-Trichloropropane	11.14	75	86317	23.80	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	86317	83.43	ug/l	# 7

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

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MH-31(0-5)

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002465.D

Acq: 12 Jun 2018 14:38

Instrument :

MSVOA_X

ClientSampleId :

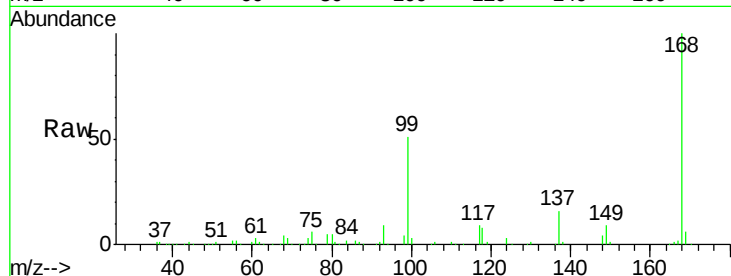
MH-31(0-5)

Tgt Ion:168 Resp: 208395

Ion Ratio Lower Upper

168 100

99 50.6 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

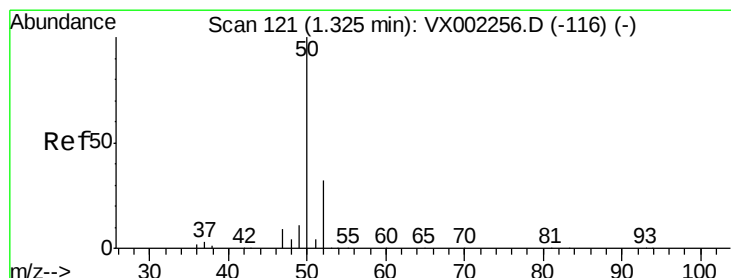
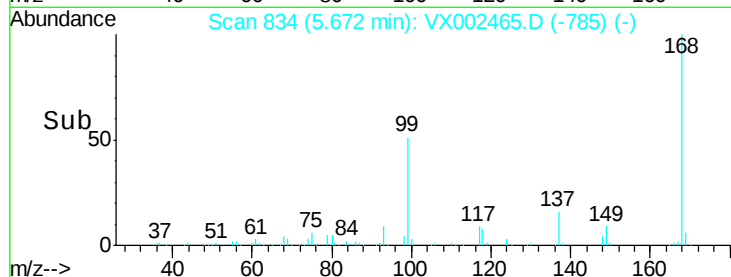
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002465.D

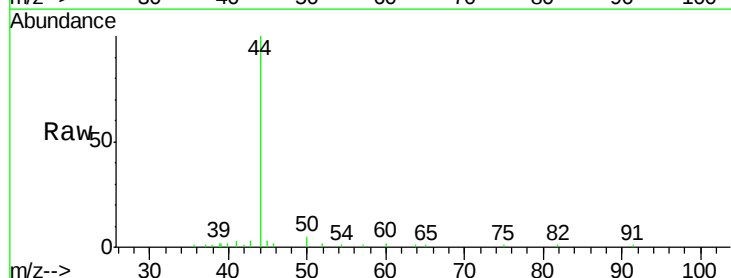
Acq: 12 Jun 2018 14:38

Tgt Ion: 50 Resp: 545

Ion Ratio Lower Upper

50 100

52 37.8 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

300

250

200

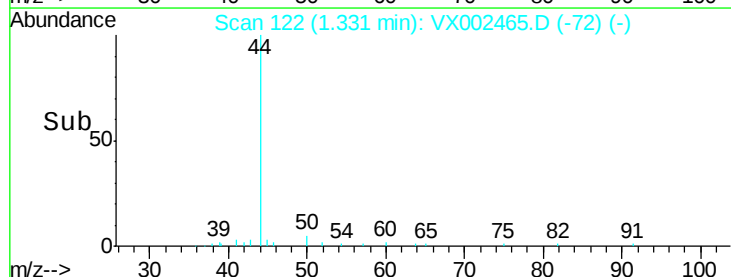
150

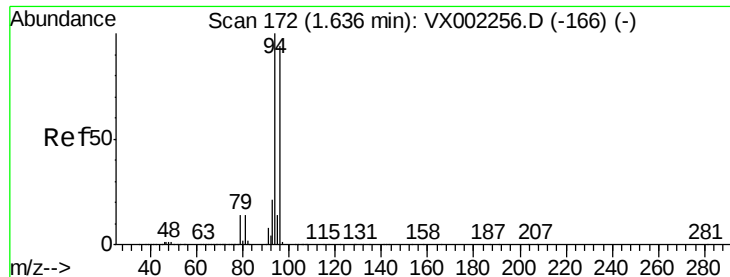
100

50

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 169

Delta R.T. -0.02 min

Lab File: VX002465.D

Acq: 12 Jun 2018 14:38

Instrument :

MSVOA_X

ClientSampled :

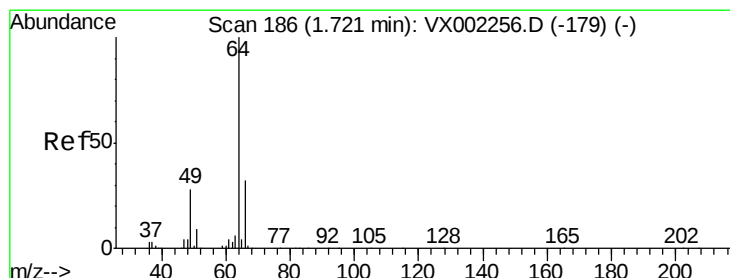
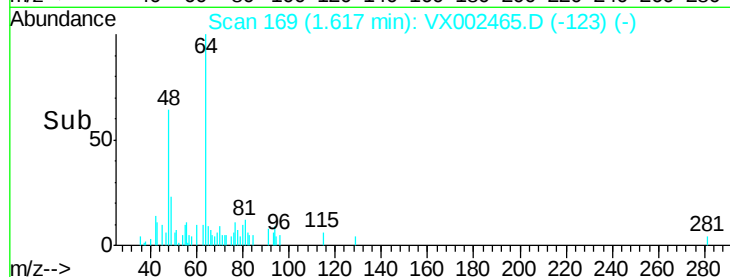
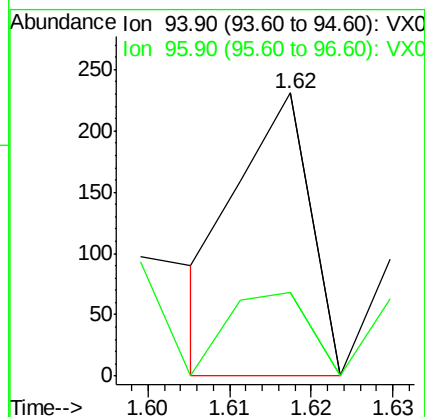
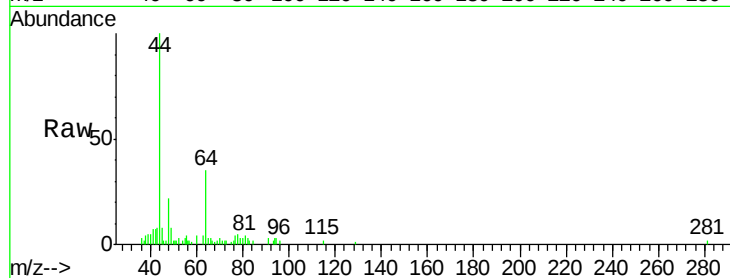
MH-31(0-5)

Tgt Ion: 94 Resp: 143

Ion Ratio Lower Upper

94 100

96 29.4 74.9 112.3#



#6

Chloroethane

Concen: 0.33 ug/l

RT: 1.76 min Scan# 193

Delta R.T. 0.04 min

Lab File: VX002465.D

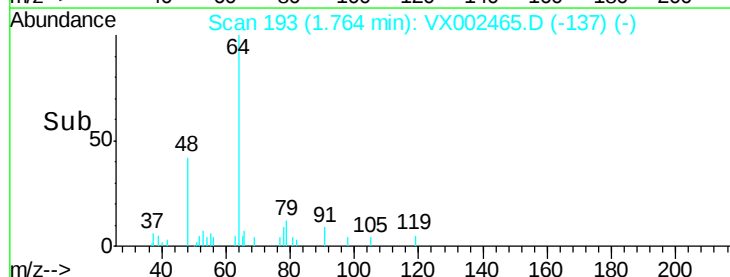
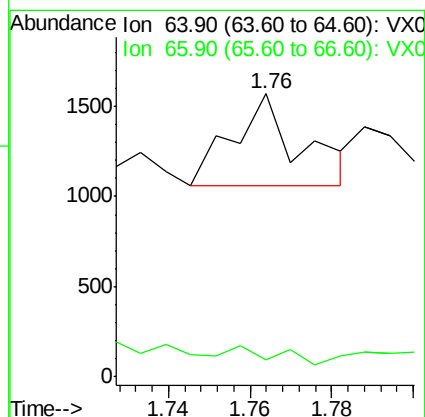
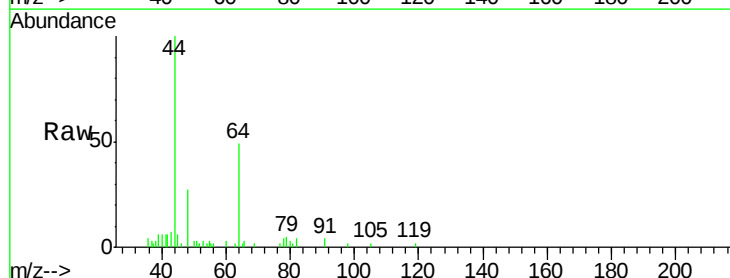
Acq: 12 Jun 2018 14:38

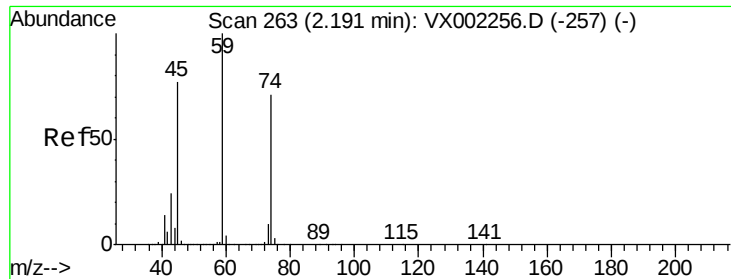
Tgt Ion: 64 Resp: 577

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#





#8

Diethyl Ether

Concen: Below Cal

RT: 2.19 min Scan# 263

Delta R.T. 0.00 min

Lab File: VX002465.D

Acq: 12 Jun 2018 14:38

Instrument :

MSVOA_X

ClientSampled :

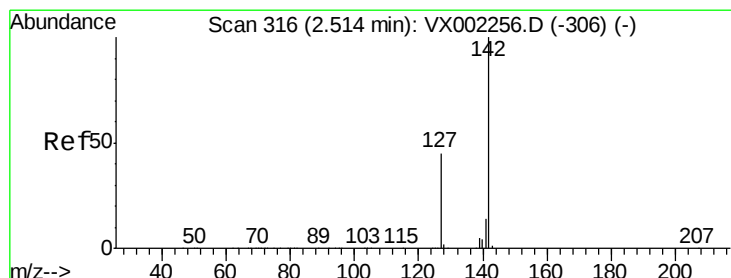
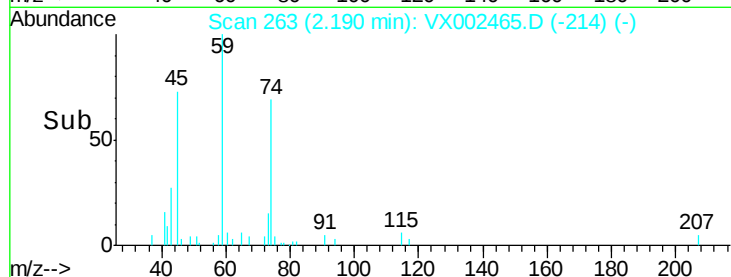
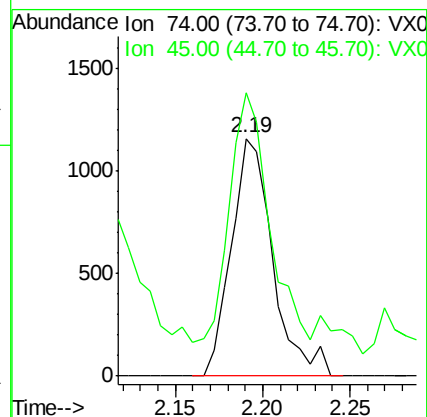
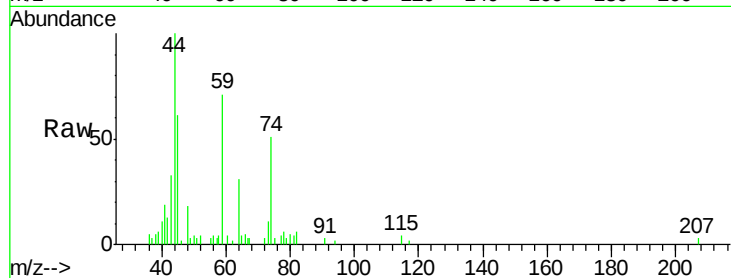
MH-31(0-5)

Tgt Ion: 74 Resp: 1907

Ion Ratio Lower Upper

74 100

45 108.7 53.1 159.4



#10

Methyl Iodide

Concen: 0.45 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002465.D

Acq: 12 Jun 2018 14:38

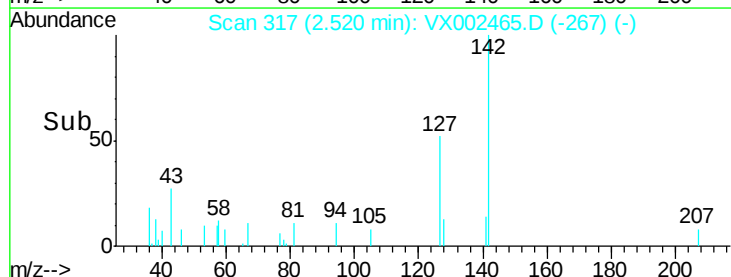
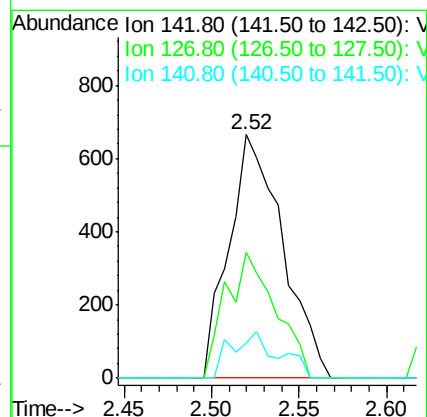
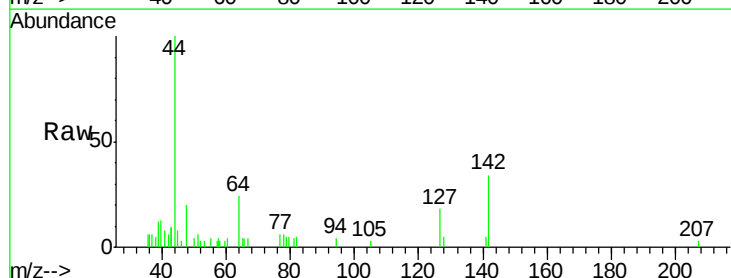
Tgt Ion: 142 Resp: 1424

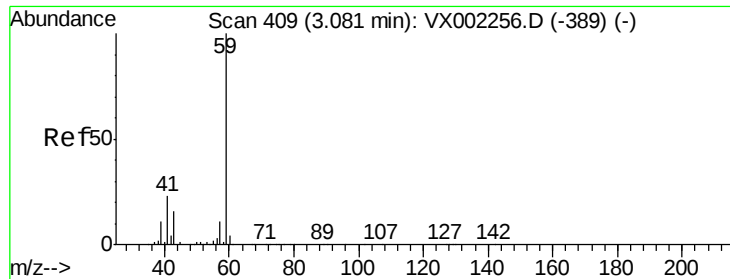
Ion Ratio Lower Upper

142 100

127 47.7 36.6 55.0

141 16.4 11.3 16.9

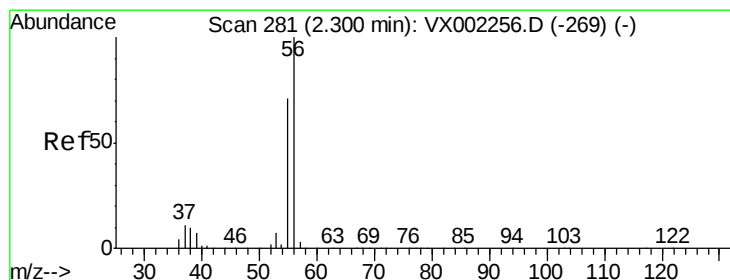
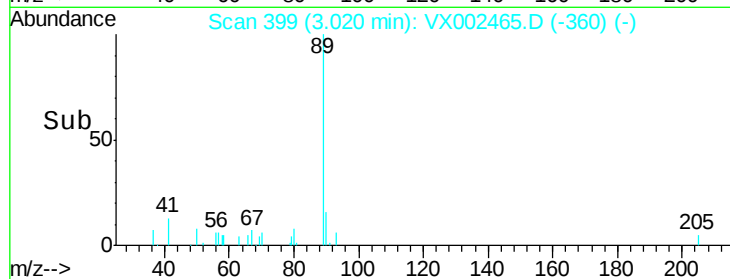
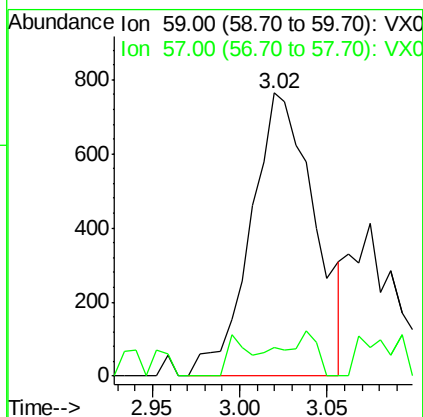
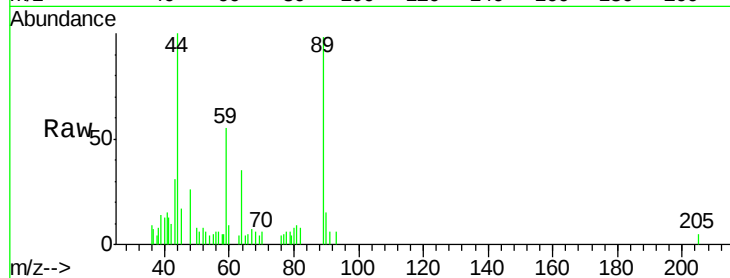




#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.02 min Scan# 399
Delta R.T. -0.06 min
Lab File: VX002465.D
Acq: 12 Jun 2018 14:38

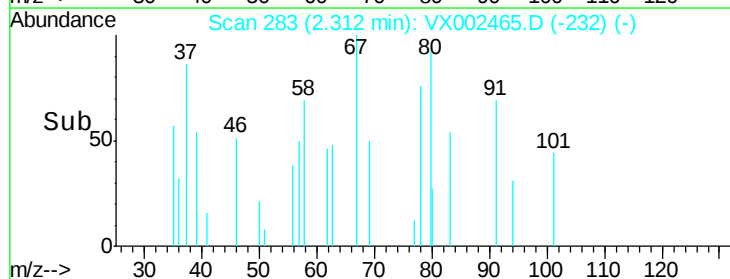
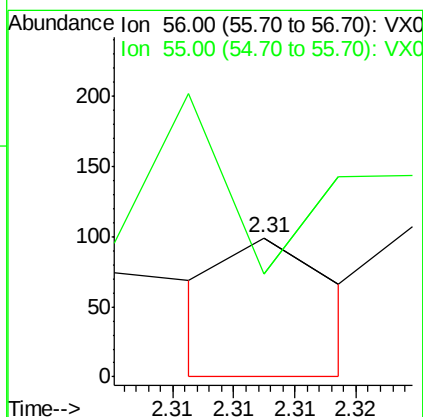
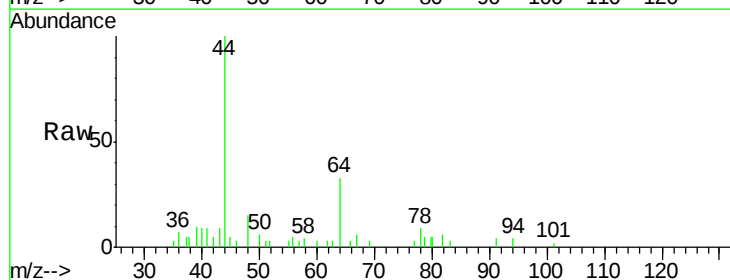
Instrument :
MSVOA_X
ClientSampleId :
MH-31(0-5)

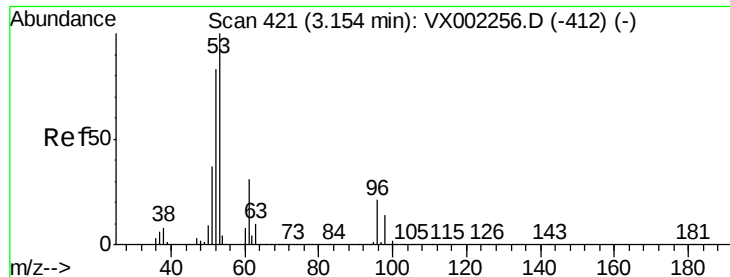
Tgt Ion: 59 Resp: 1945
Ion Ratio Lower Upper
59 100
57 5.4 8.2 12.2#



#13
Acrolein
Concen: Below Cal
RT: 2.31 min Scan# 283
Delta R.T. 0.01 min
Lab File: VX002465.D
Acq: 12 Jun 2018 14:38

Tgt Ion: 56 Resp: 60
Ion Ratio Lower Upper
56 100
55 118.3 57.0 85.4#





#15

Acrylonitrile

Concen: Below Cal

RT: 3.14 min Scan# 419

Delta R.T. -0.01 min

Lab File: VX002465.D

Acq: 12 Jun 2018 14:38

Instrument :

MSVOA_X

ClientSampled :

MH-31(0-5)

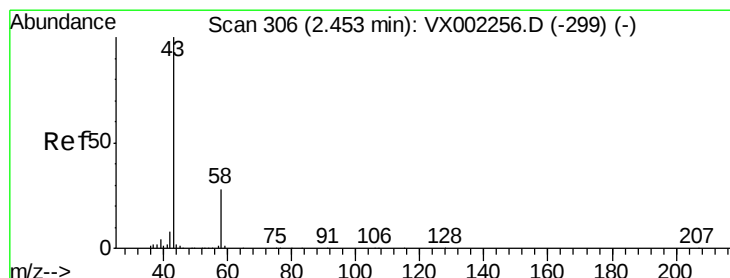
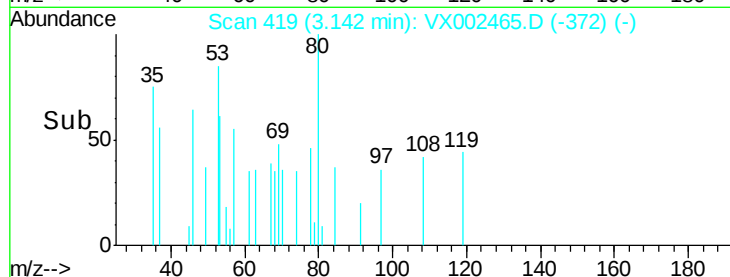
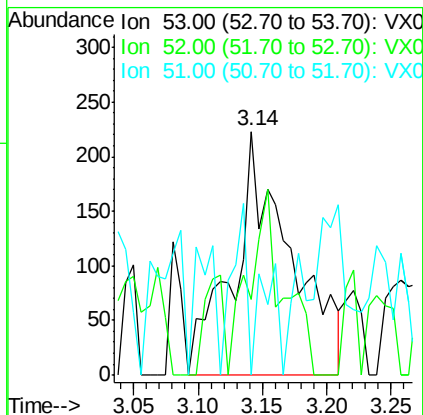
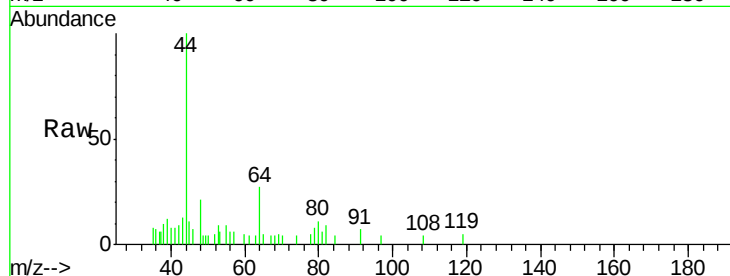
Tgt Ion: 53 Resp: 690

Ion Ratio Lower Upper

53 100

52 0.0 66.7 100.1#

51 18.3 29.9 44.9#



#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002465.D

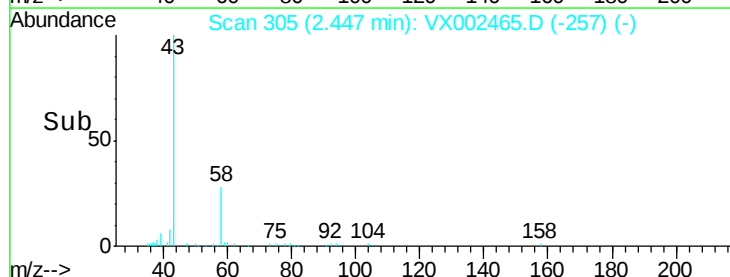
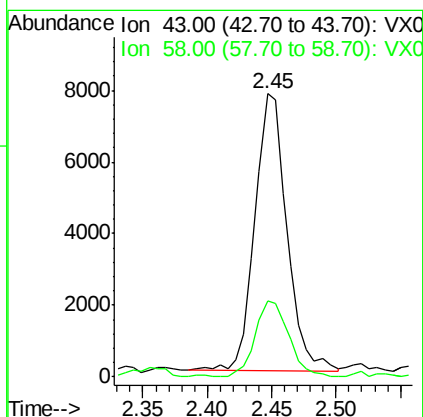
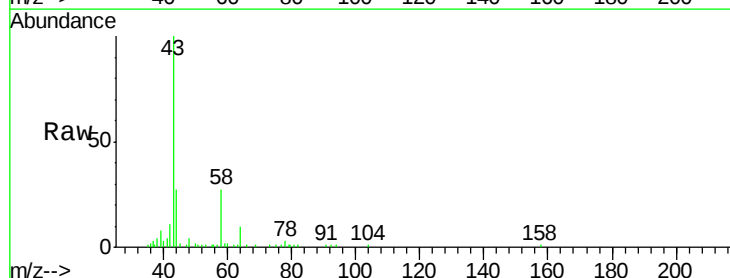
Acq: 12 Jun 2018 14:38

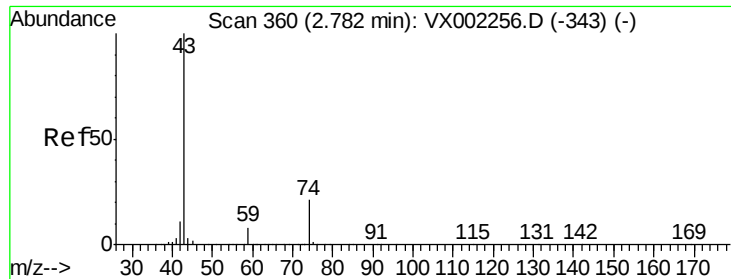
Tgt Ion: 43 Resp: 13240

Ion Ratio Lower Upper

43 100

58 27.7 22.1 33.1





#18

Methyl Acetate

Concen: 4.72 ug/l

RT: 2.78 min Scan# 360

Delta R.T. -0.00 min

Lab File: VX002465.D

Acq: 12 Jun 2018 14:38

Instrument :

MSVOA_X

ClientSampled :

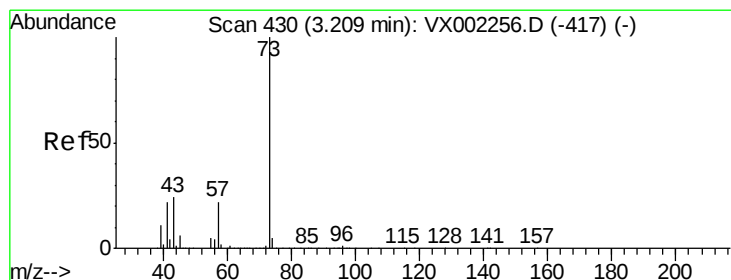
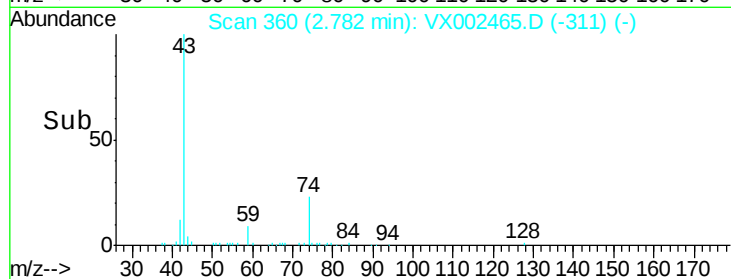
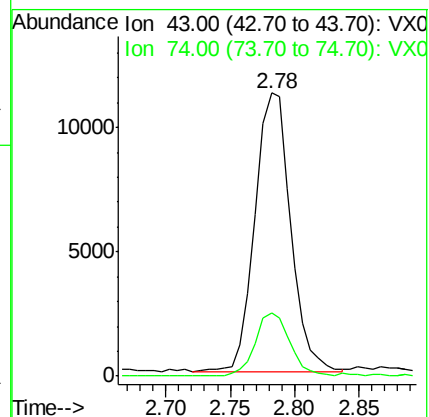
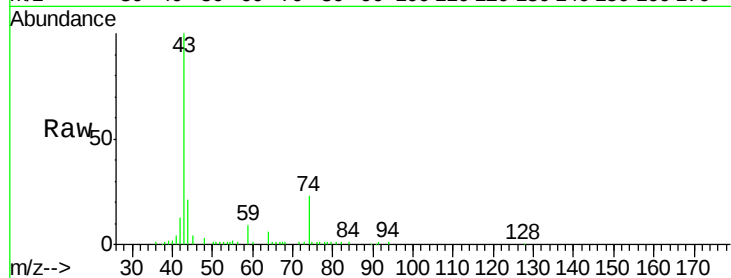
MH-31(0-5)

Tgt Ion: 43 Resp: 21378

Ion Ratio Lower Upper

43 100

74 22.1 16.7 25.1



#19

Methyl tert-butyl Ether

Concen: Below Cal

RT: 3.21 min Scan# 430

Delta R.T. 0.00 min

Lab File: VX002465.D

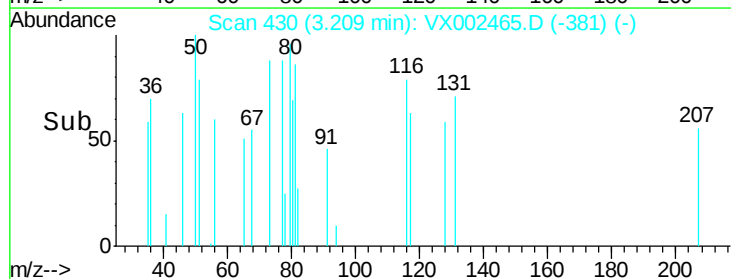
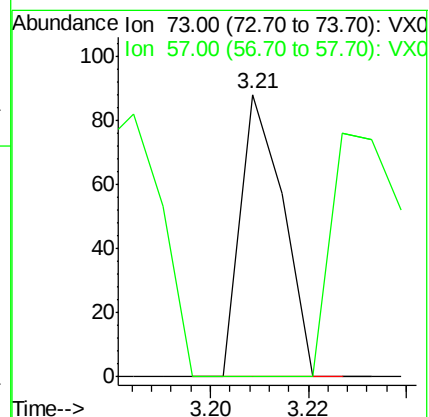
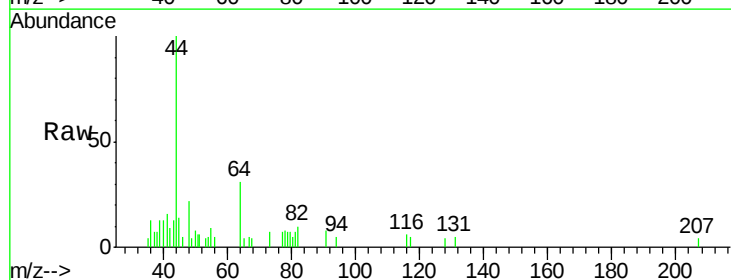
Acq: 12 Jun 2018 14:38

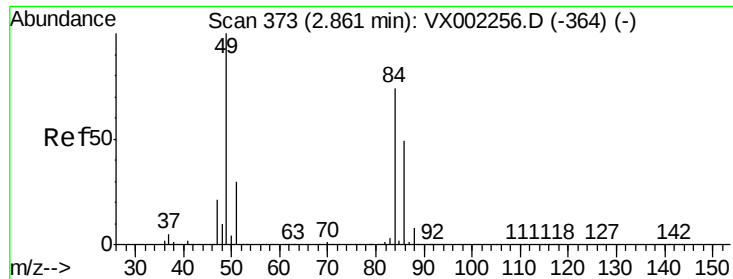
Tgt Ion: 73 Resp: 53

Ion Ratio Lower Upper

73 100

57 0.0 17.7 26.5#

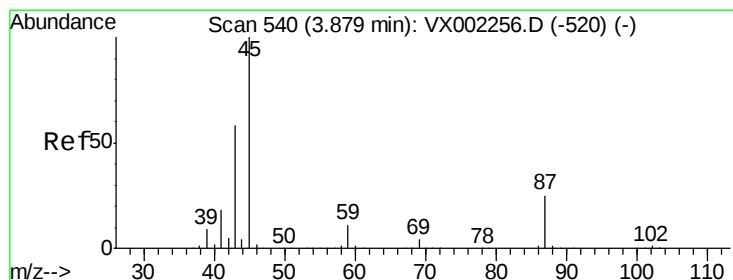
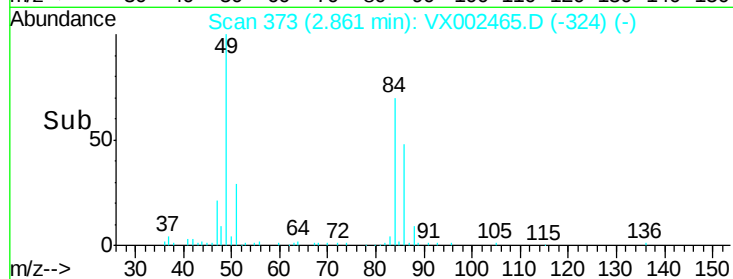
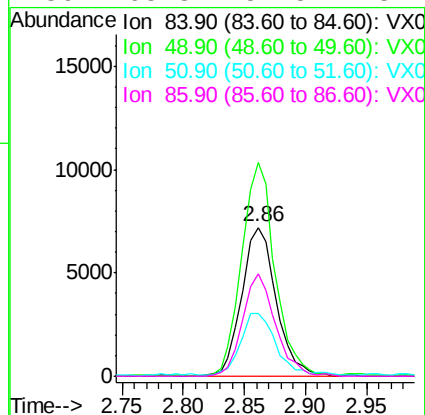
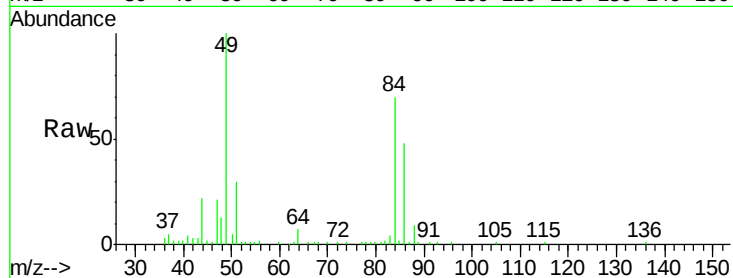




#20
Methylene Chloride
Concen: 3.40 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002465.D
Acq: 12 Jun 2018 14:38

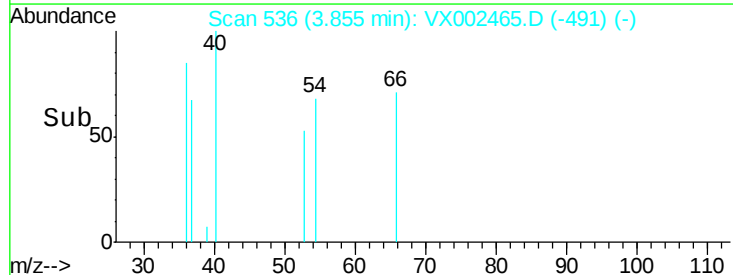
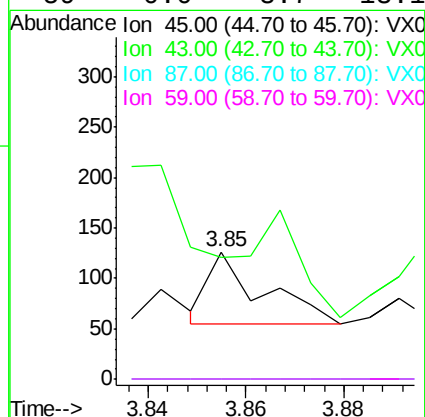
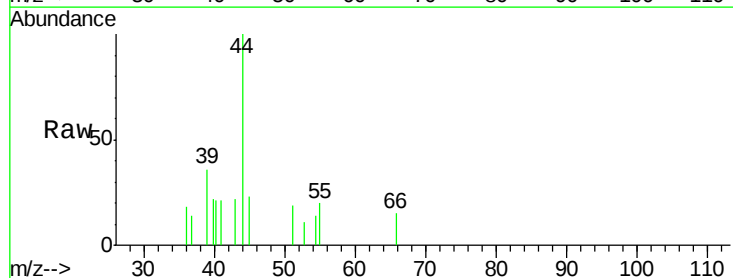
Instrument :
MSVOA_X
ClientSampleId :
MH-31(0-5)

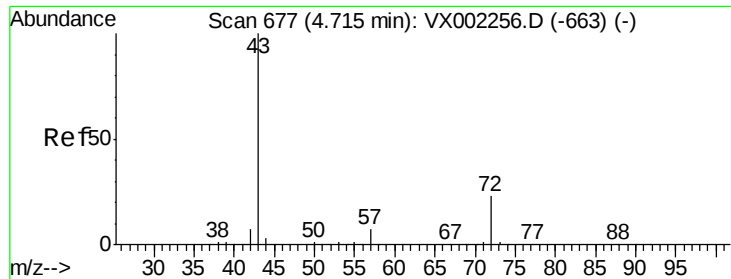
Tgt Ion: 84 Resp: 14080
Ion Ratio Lower Upper
84 100
49 143.6 107.8 161.6
51 41.2 32.8 49.2
86 68.8 52.5 78.7



#22
Diisopropyl ether
Concen: Below Cal
RT: 3.85 min Scan# 536
Delta R.T. -0.02 min
Lab File: VX002465.D
Acq: 12 Jun 2018 14:38

Tgt Ion: 45 Resp: 54
Ion Ratio Lower Upper
45 100
43 84.5 46.8 70.2#
87 0.0 20.2 30.4#
59 0.0 8.7 13.1#





#25

2-Butanone

Concen: 1.88 ug/l

RT: 4.71 min Scan# 677

Delta R.T. -0.00 min

Lab File: VX002465.D

Acq: 12 Jun 2018 14:38

Instrument :

MSVOA_X

ClientSampleId :

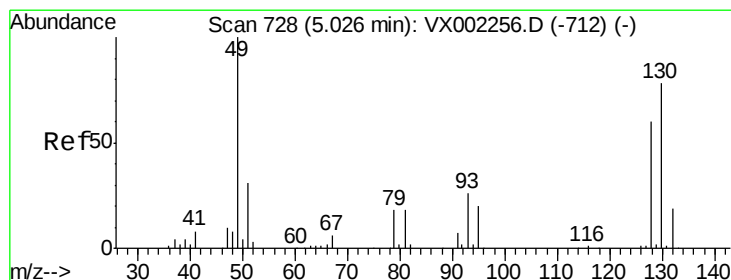
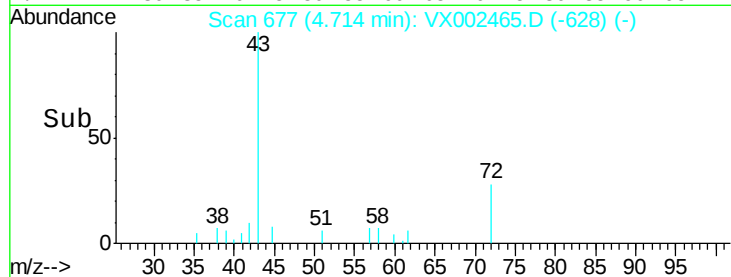
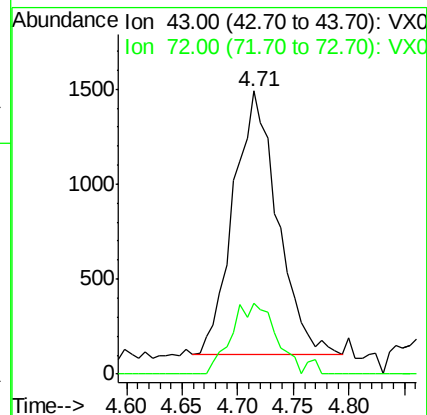
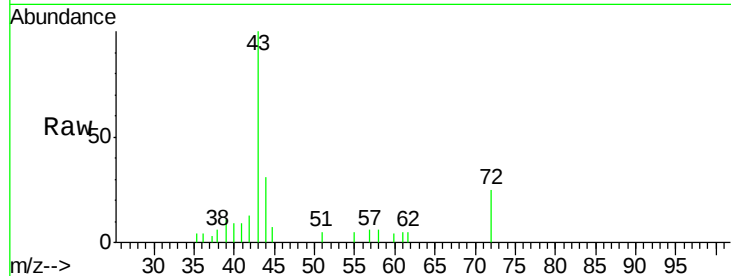
MH-31(0-5)

Tgt Ion: 43 Resp: 3837

Ion Ratio Lower Upper

43 100

72 27.1 18.5 27.7



#28

Bromochloromethane

Concen: Below Cal

RT: 5.00 min Scan# 724

Delta R.T. -0.02 min

Lab File: VX002465.D

Acq: 12 Jun 2018 14:38

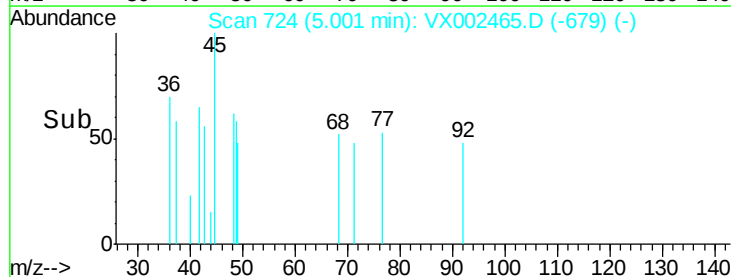
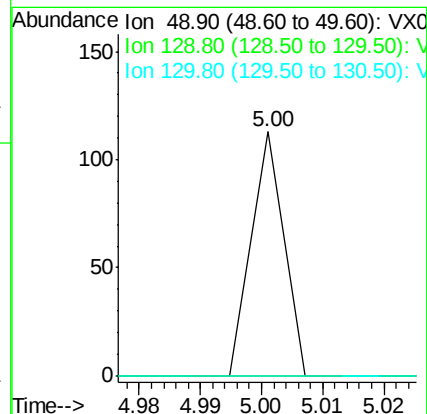
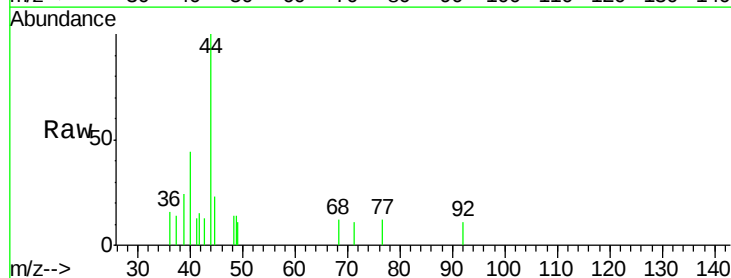
Tgt Ion: 49 Resp: 41

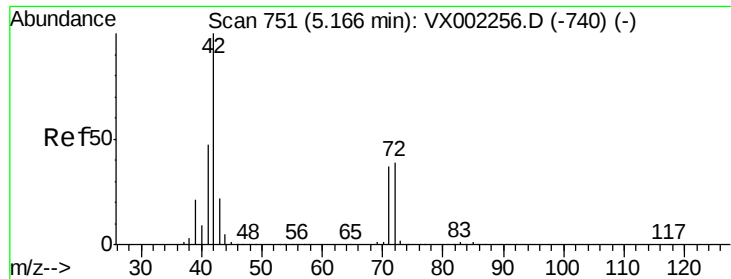
Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

130 0.0 61.2 91.8#





#29

Tetrahydrofuran

Concen: 0.36 ug/l

RT: 5.16 min Scan# 750

Delta R.T. -0.01 min

Lab File: VX002465.D

Acq: 12 Jun 2018 14:38

Instrument :

MSVOA_X

ClientSampleId :

MH-31(0-5)

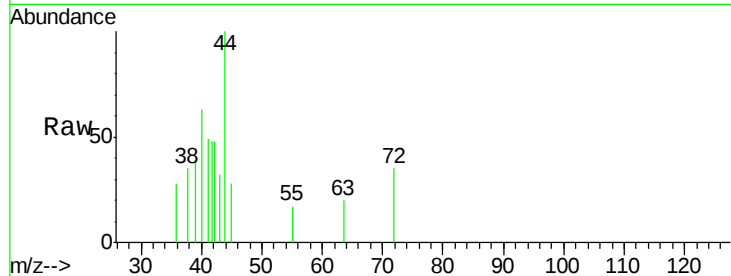
Tgt Ion: 42 Resp: 476

Ion Ratio Lower Upper

42 100

72 0.0 32.0 48.0#

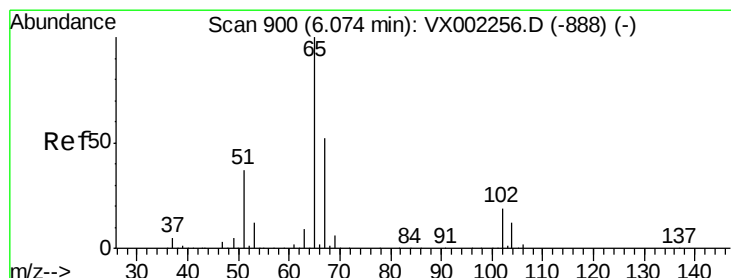
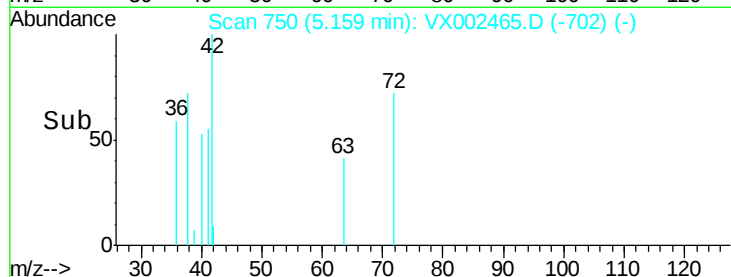
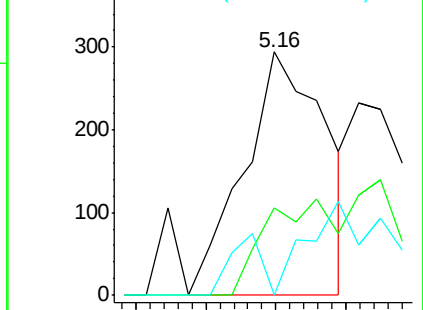
71 9.7 30.1 45.1#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 50.50 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.00 min

Lab File: VX002465.D

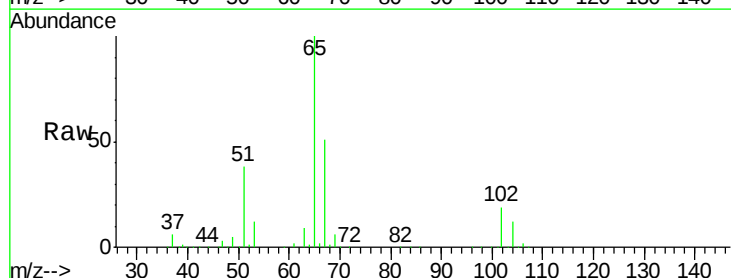
Acq: 12 Jun 2018 14:38

Tgt Ion: 65 Resp: 150402

Ion Ratio Lower Upper

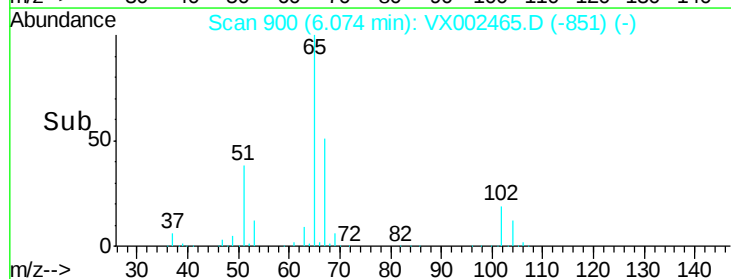
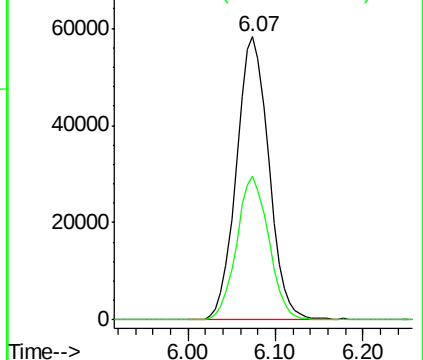
65 100

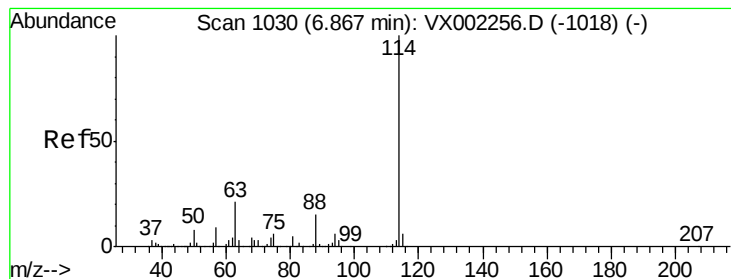
67 50.6 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX002465.D

Acq: 12 Jun 2018 14:38

Instrument :

MSVOA_X

ClientSampleId :

MH-31(0-5)

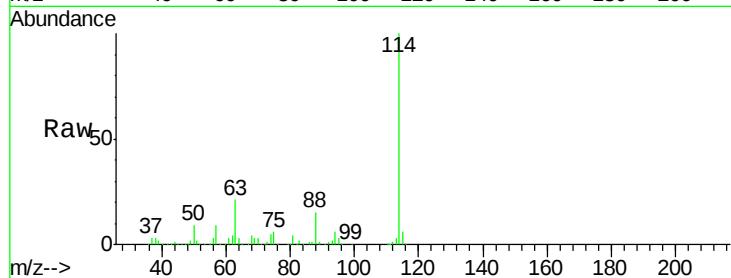
Tgt Ion:114 Resp: 306722

Ion Ratio Lower Upper

114 100

63 20.6 0.0 41.4

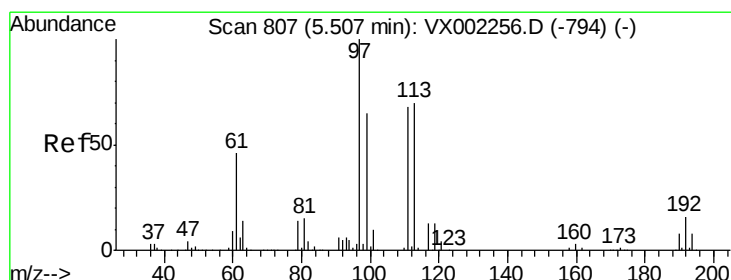
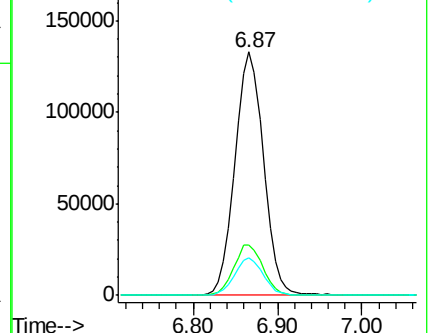
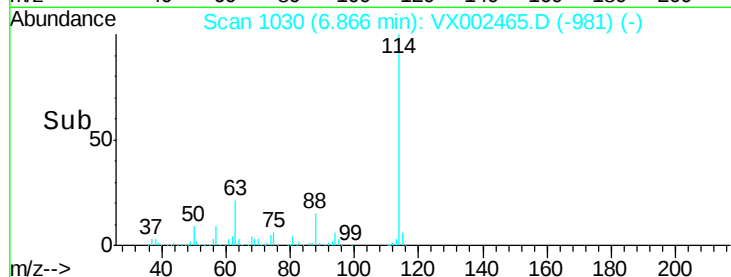
88 15.3 0.0 30.0



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: 46.89 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.01 min

Lab File: VX002465.D

Acq: 12 Jun 2018 14:38

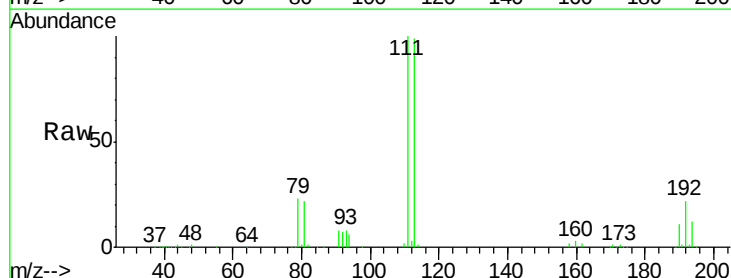
Tgt Ion:113 Resp: 113104

Ion Ratio Lower Upper

113 100

111 101.4 81.4 122.0

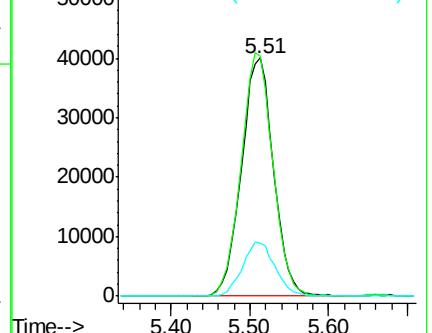
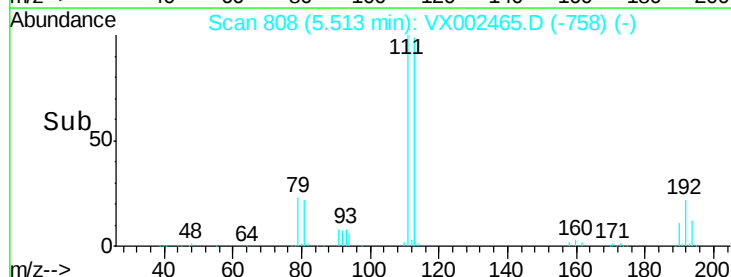
192 23.1 19.1 28.7

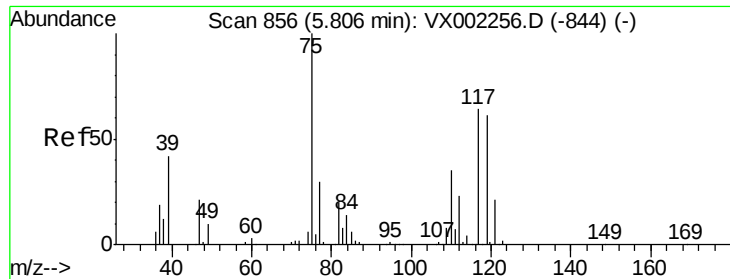


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

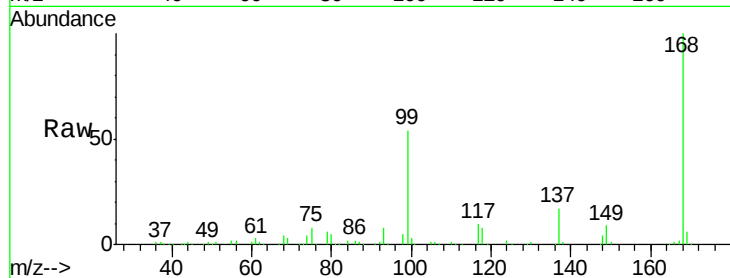




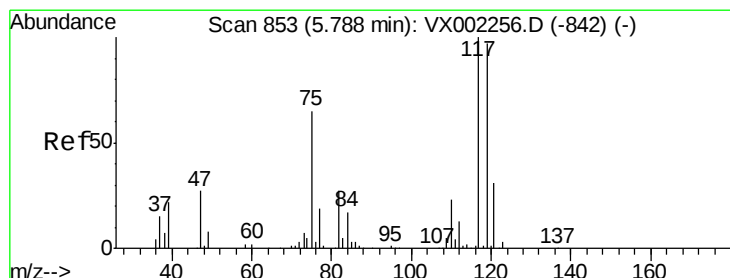
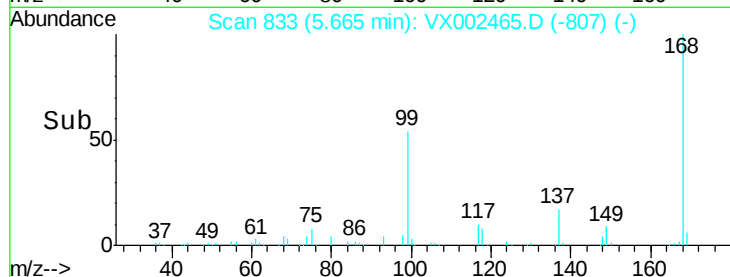
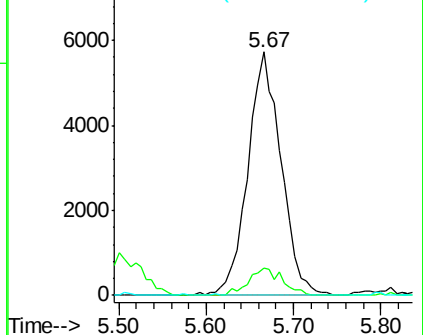
#36
 1,1-Dichloropropene
 Concen: 4.70 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.14 min
 Lab File: VX002465.D
 Acq: 12 Jun 2018 14:38

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-31(0-5)

Tgt Ion: 75 Resp: 15148
 Ion Ratio Lower Upper
 75 100
 110 11.5 18.1 54.4#
 77 0.0 24.3 36.5#

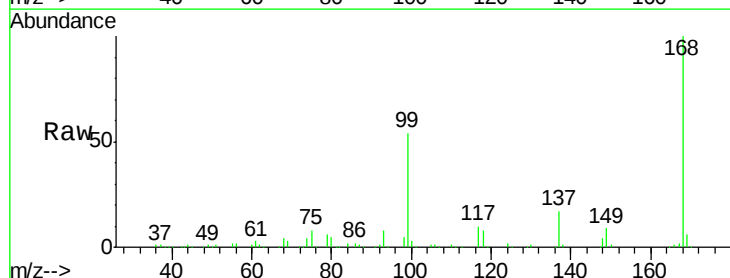


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

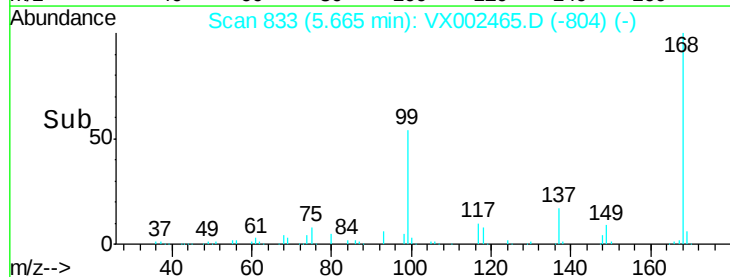
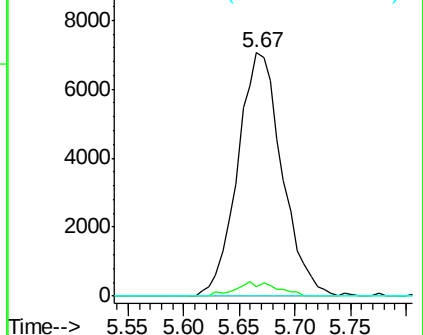


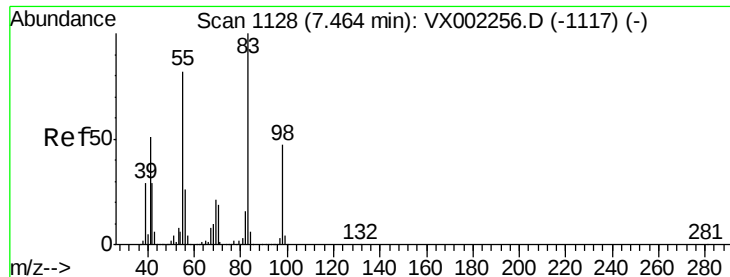
#38
 Carbon Tetrachloride
 Concen: 5.78 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX002465.D
 Acq: 12 Jun 2018 14:38

Tgt Ion: 117 Resp: 19506
 Ion Ratio Lower Upper
 117 100
 119 4.0 77.4 116.0#
 121 0.0 24.4 36.6#



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

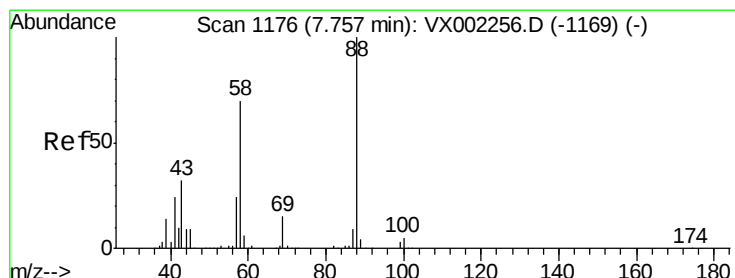
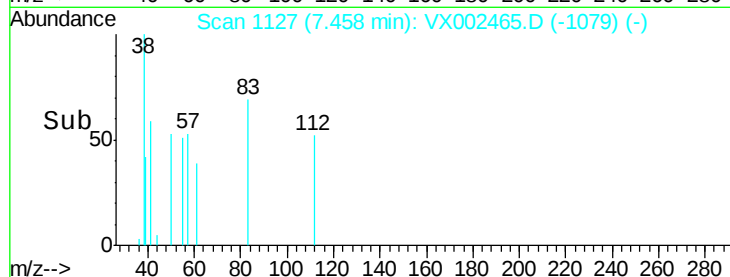
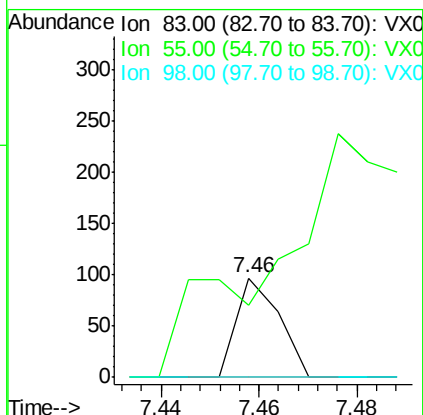
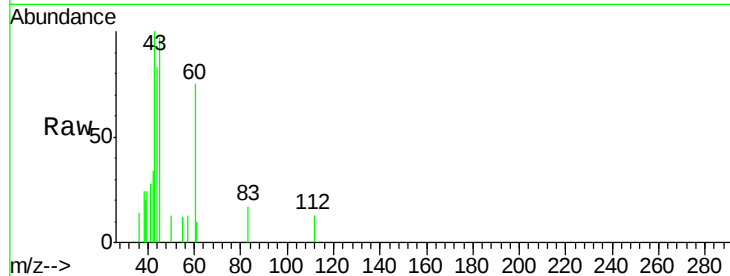




#39
Methylcyclohexane
Concen: 0.28 ug/l
RT: 7.46 min Scan# 1127
Delta R.T. -0.01 min
Lab File: VX002465.D
Acq: 12 Jun 2018 14:38

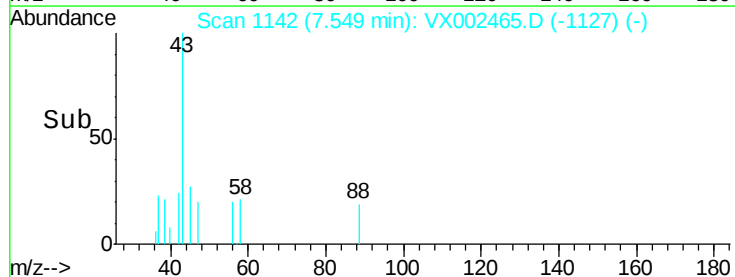
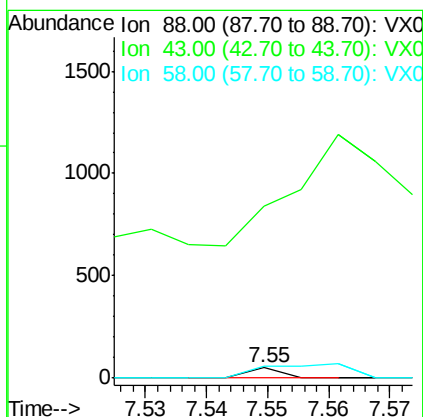
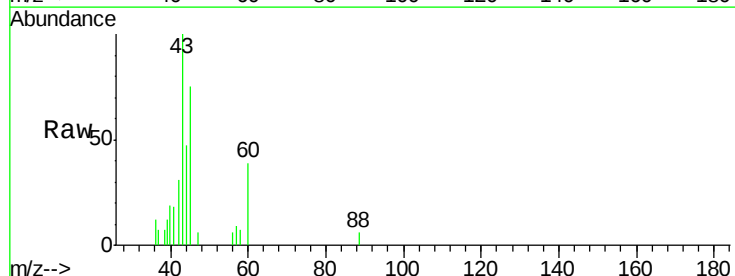
Instrument :
MSVOA_X
ClientSampled :
MH-31(0-5)

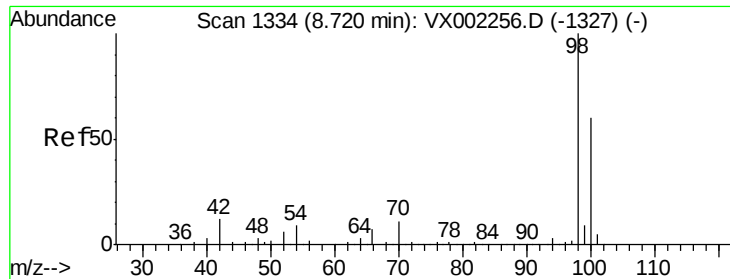
Tgt Ion: 83 Resp: 59
Ion Ratio Lower Upper
83 100
55 0.0 65.4 98.0#
98 0.0 37.4 56.0#



#49
1,4-Dioxane
Concen: 0.31 ug/l
RT: 7.55 min Scan# 1142
Delta R.T. -0.21 min
Lab File: VX002465.D
Acq: 12 Jun 2018 14:38

Tgt Ion: 88 Resp: 19
Ion Ratio Lower Upper
88 100
43 4315.8 29.8 44.6#
58 352.6 57.1 85.7#





#50

Toluene-d8

Concen: 48.10 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX002465.D

Acq: 12 Jun 2018 14:38

Instrument :

MSVOA_X

ClientSampleId :

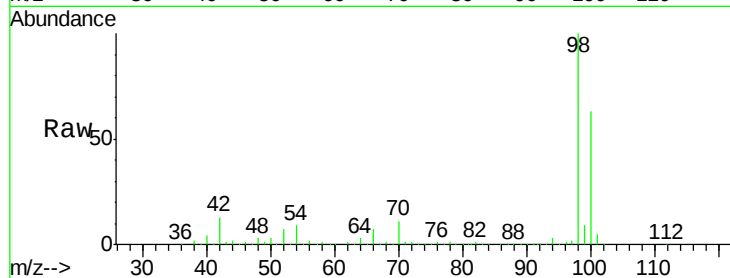
MH-31(0-5)

Tgt Ion: 98 Resp: 444674

Ion Ratio Lower Upper

98 100

100 63.1 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.72

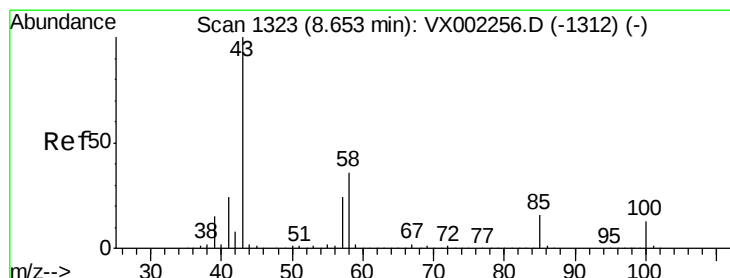
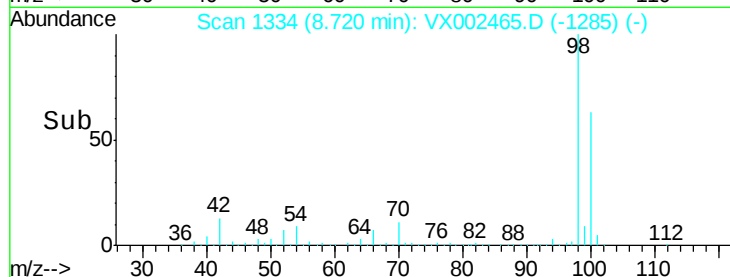
300000

200000

100000

0

Time--> 8.60 8.70 8.80



#51

4-Methyl-2-Pentanone

Concen: 0.32 ug/l

RT: 8.66 min Scan# 1324

Delta R.T. 0.01 min

Lab File: VX002465.D

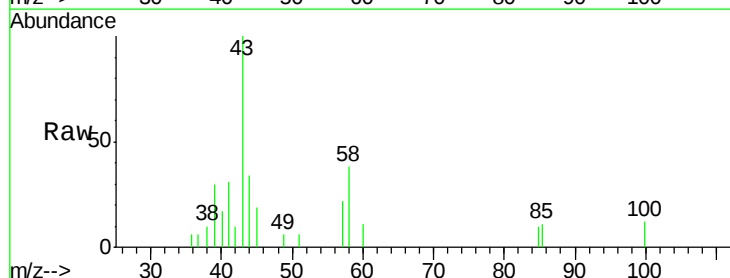
Acq: 12 Jun 2018 14:38

Tgt Ion: 43 Resp: 1328

Ion Ratio Lower Upper

43 100

58 45.0 28.6 42.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

3000

2500

2000

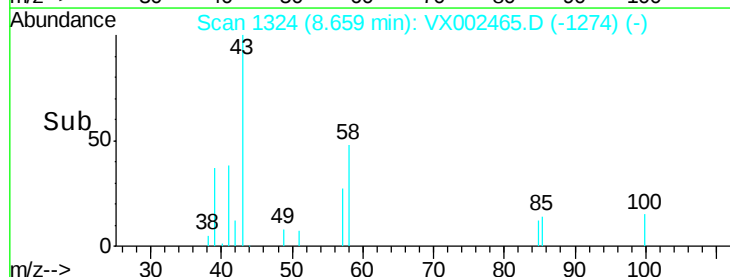
1500

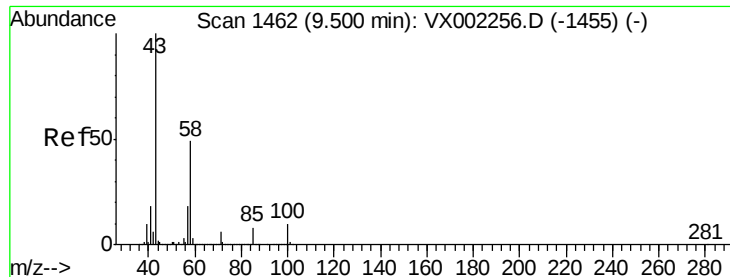
1000

500

0

Time--> 8.60 8.65 8.70

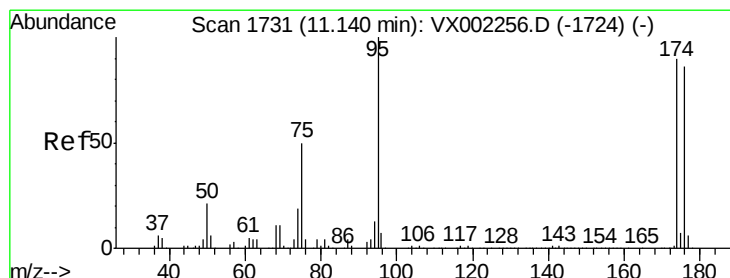
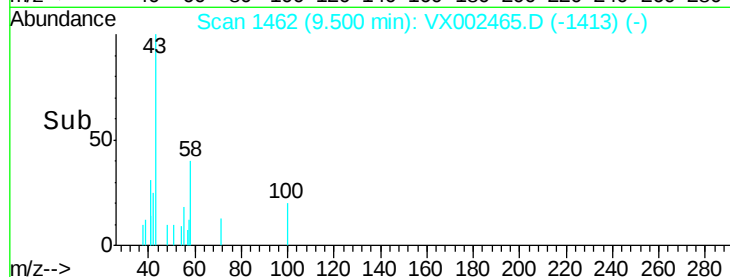
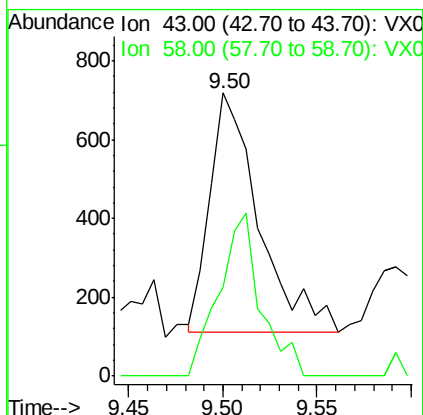
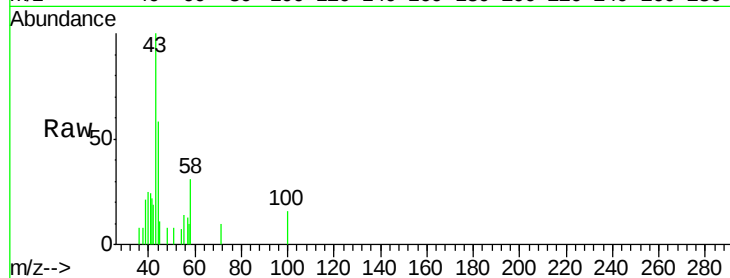




#59
2-Hexanone
Concen: 0.35 ug/l
RT: 9.50 min Scan# 1462
Delta R.T. -0.00 min
Lab File: VX002465.D
Acq: 12 Jun 2018 14:38

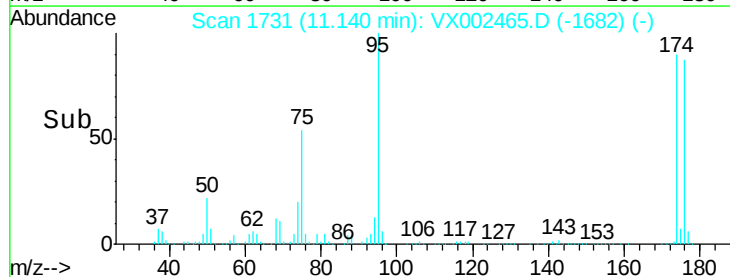
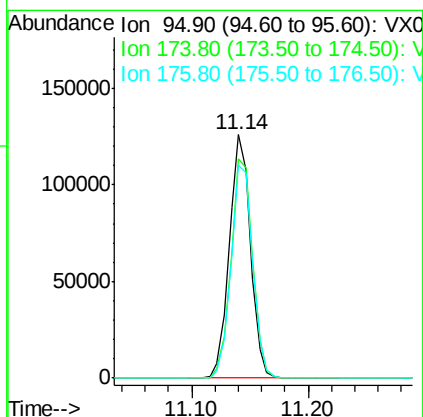
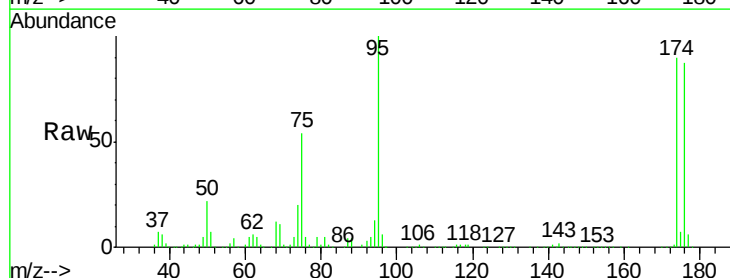
Instrument :
MSVOA_X
ClientSampleId :
MH-31(0-5)

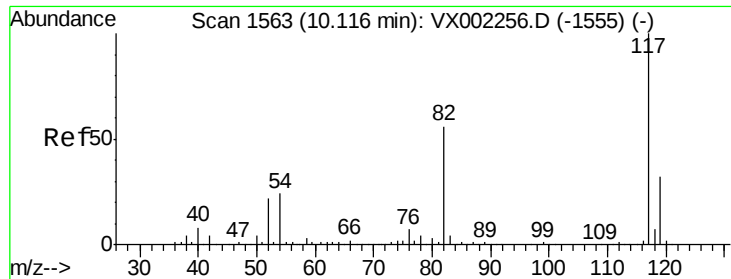
Tgt Ion: 43 Resp: 1101
Ion Ratio Lower Upper
43 100
58 57.4 24.6 73.6



#62
4-Bromofluorobenzene
Concen: 44.52 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX002465.D
Acq: 12 Jun 2018 14:38

Tgt Ion: 95 Resp: 158729
Ion Ratio Lower Upper
95 100
174 93.1 0.0 187.4
176 90.1 0.0 181.0





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX002465.D

Acq: 12 Jun 2018 14:38

Instrument :

MSVOA_X

ClientSampled :

MH-31(0-5)

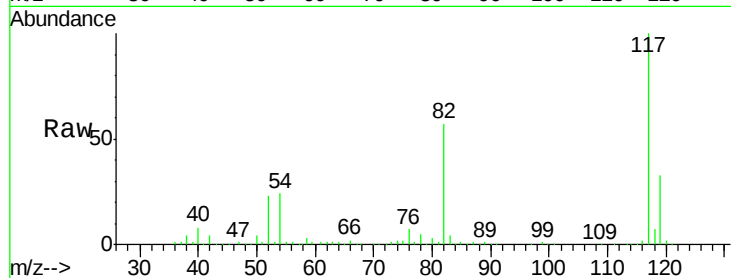
Tgt Ion:117 Resp: 288021

Ion Ratio Lower Upper

117 100

82 56.6 45.0 67.4

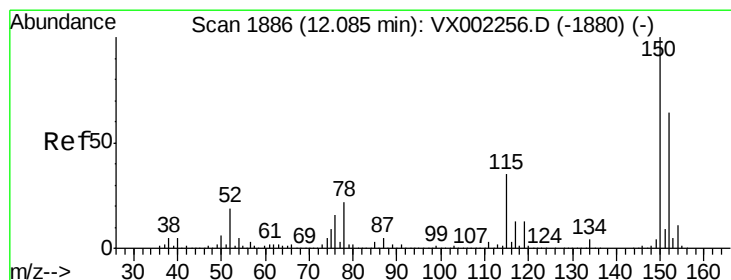
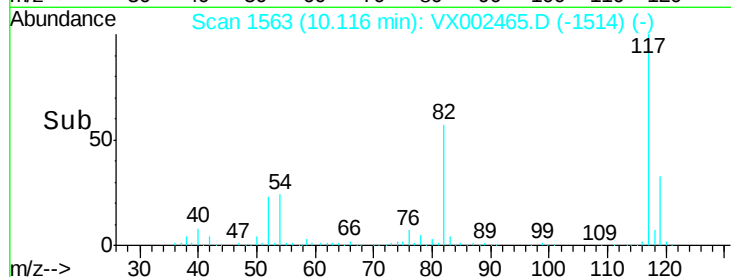
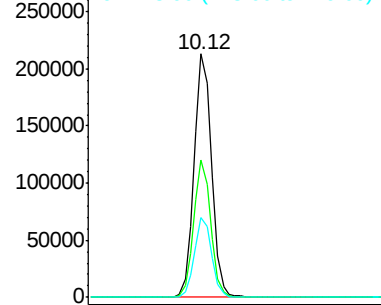
119 32.6 25.8 38.6



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: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002465.D

Acq: 12 Jun 2018 14:38

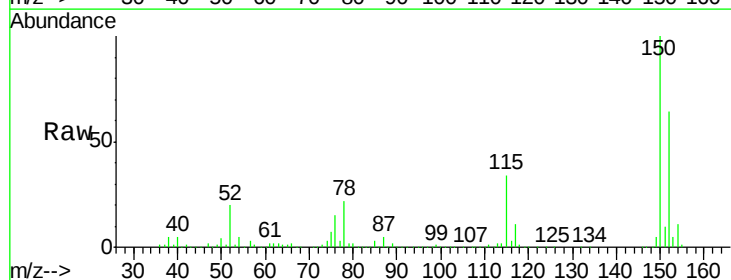
Tgt Ion:152 Resp: 165277

Ion Ratio Lower Upper

152 100

115 55.6 40.1 120.2

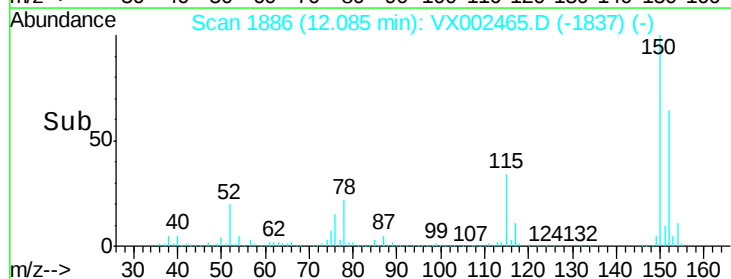
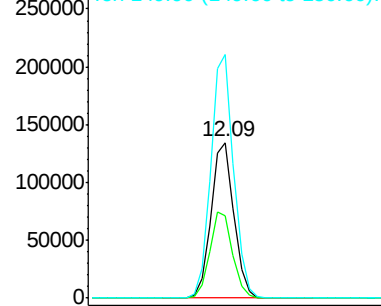
150 156.1 0.0 347.2

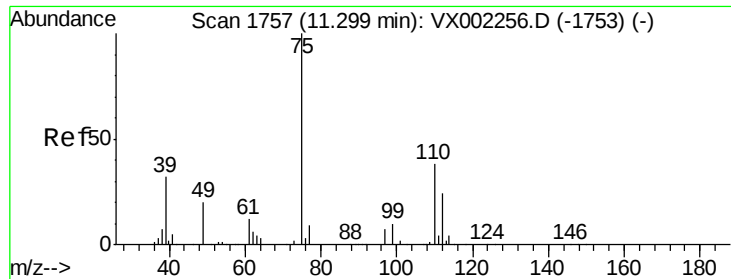


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

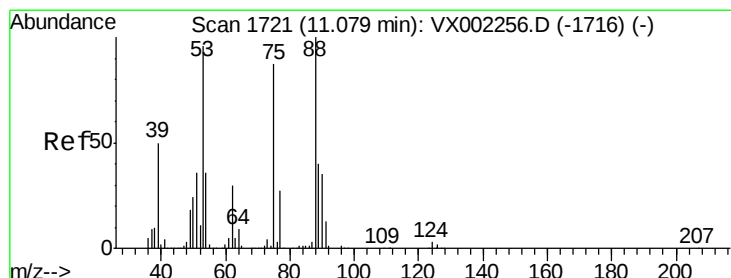
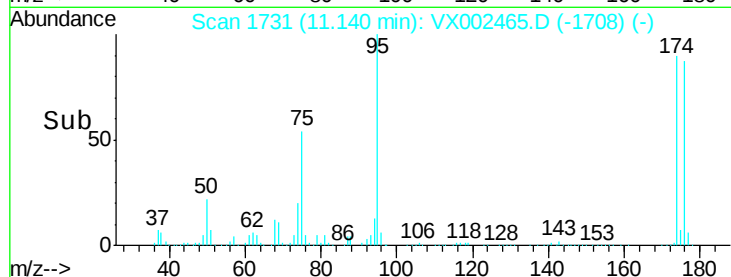
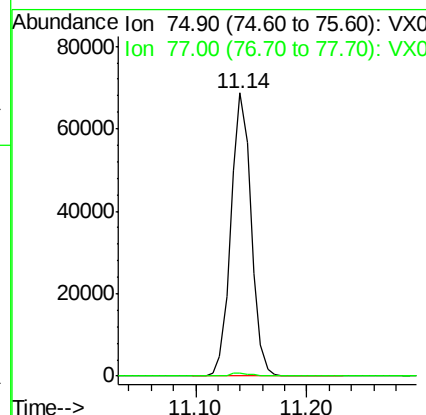
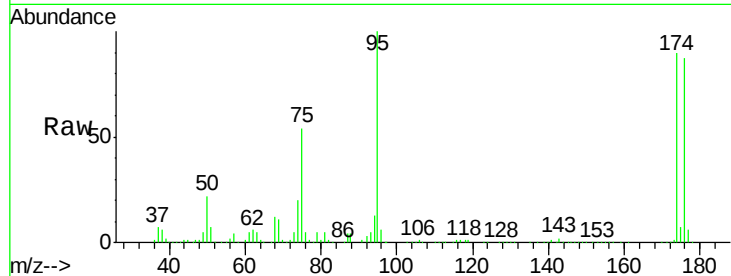




#76
 1,2,3-Trichloropropane
 Concen: 23.80 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX002465.D
 Acq: 12 Jun 2018 14:38

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-31(0-5)

Tgt Ion: 75 Resp: 86317
 Ion Ratio Lower Upper
 75 100
 77 1.2 22.8 68.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 83.43 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002465.D
 Acq: 12 Jun 2018 14:38

Tgt Ion: 75 Resp: 86317
 Ion Ratio Lower Upper
 75 100
 53 0.1 86.8 130.2#
 89 0.0 38.2 57.2#

