

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX061218\
 Data File : VX002464.D
 Acq On : 12 Jun 2018 14:11
 Operator : JC/MD
 Sample : J3329-12
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-30(0-5)

Quant Time: Jun 12 14:45:24 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	204207	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	298323	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	281017	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	159516	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	147215	50.44	ug/l	0.00
Spiked Amount			Recovery	=	100.88%	
35) Dibromofluoromethane	5.51	113	110745	47.21	ug/l	0.00
Spiked Amount			Recovery	=	94.42%	
50) Toluene-d8	8.72	98	432636	48.11	ug/l	0.00
Spiked Amount			Recovery	=	96.22%	
62) 4-Bromofluorobenzene	11.14	95	153916	44.39	ug/l	0.00
Spiked Amount			Recovery	=	88.78%	

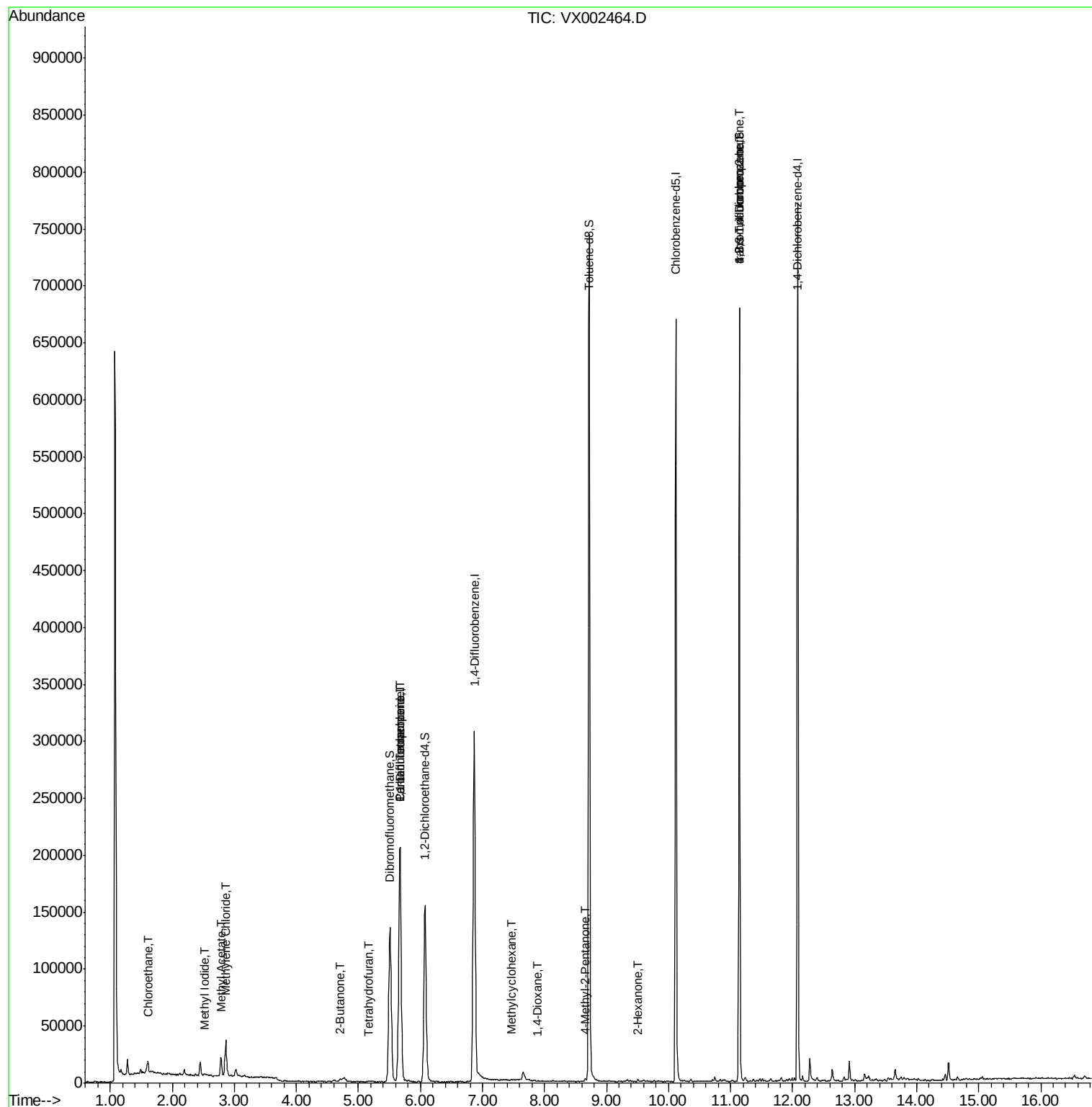
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	573	Below Cal	#	75
5) Bromomethane	1.62	94	429	Below Cal	#	25
6) Chloroethane	1.61	64	926	0.54	ug/l	43
8) Diethyl Ether	2.19	74	1634	Below Cal		91
10) Methyl Iodide	2.53	142	1780	0.58	ug/l	86
11) Tert butyl alcohol	3.01	59	3887	Below Cal	#	78
13) Acrolein	2.30	56	143	Below Cal	#	1
15) Acrylonitrile	3.13	53	233	Below Cal	#	66
16) Acetone	2.45	43	12624	Below Cal		99
18) Methyl Acetate	2.78	43	20227	4.46	ug/l	98
19) Methyl tert-butyl Ether	3.21	73	162	Below Cal	#	60
20) Methylene Chloride	2.86	84	14827	3.87	ug/l	97
22) Diisopropyl ether	3.87	45	226	Below Cal	#	35
25) 2-Butanone	4.71	43	4734	2.36	ug/l	88
28) Bromochloromethane	5.04	49	69	Below Cal	#	13
29) Tetrahydrofuran	5.16	42	819	0.63	ug/l	42
36) 1,1-Dichloropropene	5.67	75	14817	4.72	ug/l	52
38) Carbon Tetrachloride	5.67	117	19113	5.83	ug/l	16
39) Methylcyclohexane	7.47	83	164	0.30	ug/l	69
49) 1,4-Dioxane	7.88	88	20	0.33	ug/l	1
51) 4-Methyl-2-Pentanone	8.65	43	1783	0.45	ug/l	93
59) 2-Hexanone	9.51	43	1058	0.34	ug/l	84
76) 1,2,3-Trichloropropane	11.14	75	84295	24.08	ug/l	33
81) trans-1,4-Dichloro-2-buten	11.14	75	84295	84.42	ug/l	6

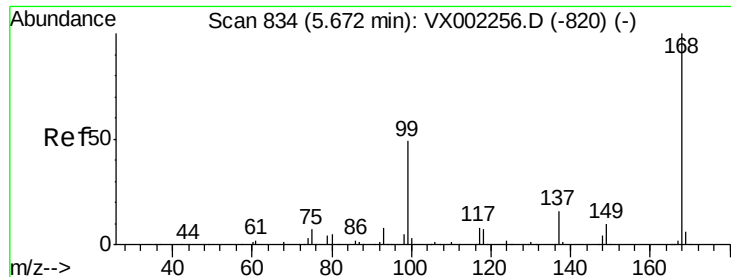
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MH-30(0-5)

Quant Time: Jun 12 14:45:24 2018
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Quant Title : SW846 8260
QLast Update : Tue Jun 05 03:22:35 2018
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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: VX002464.D

Acq: 12 Jun 2018 14:11

Instrument :

MSVOA_X

ClientSampleId :

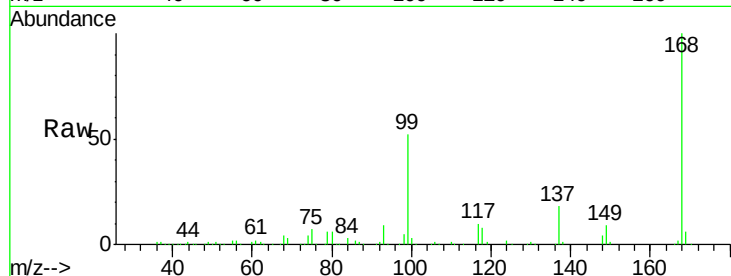
MH-30(0-5)

Tgt Ion:168 Resp: 204207

Ion Ratio Lower Upper

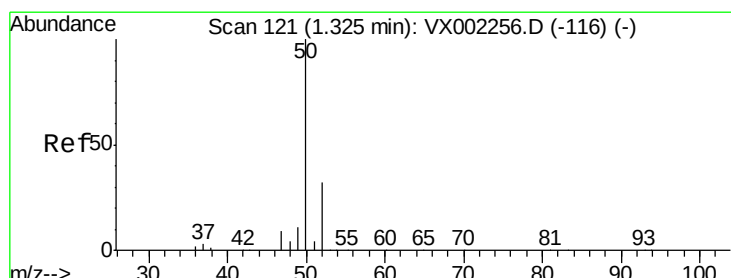
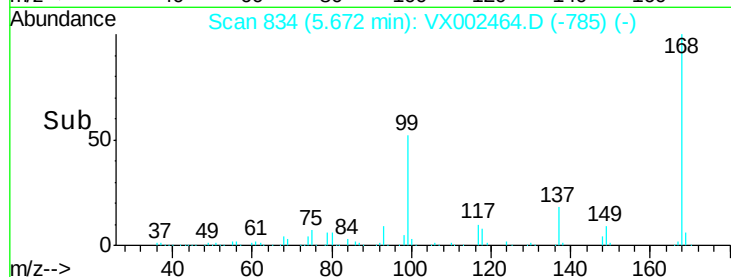
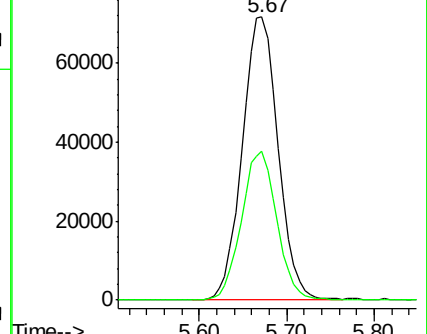
168 100

99 52.5 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002464.D

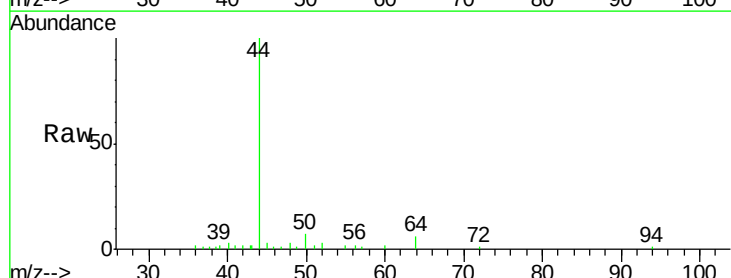
Acq: 12 Jun 2018 14:11

Tgt Ion: 50 Resp: 573

Ion Ratio Lower Upper

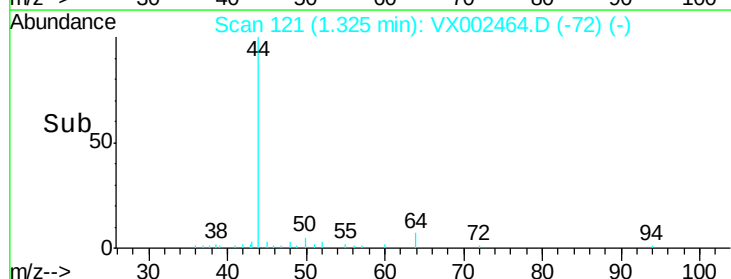
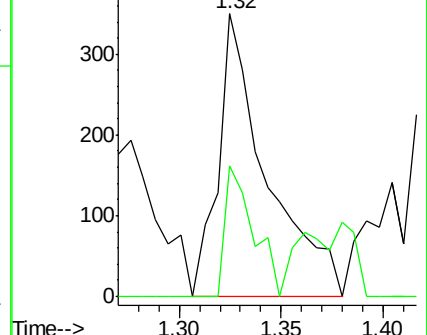
50 100

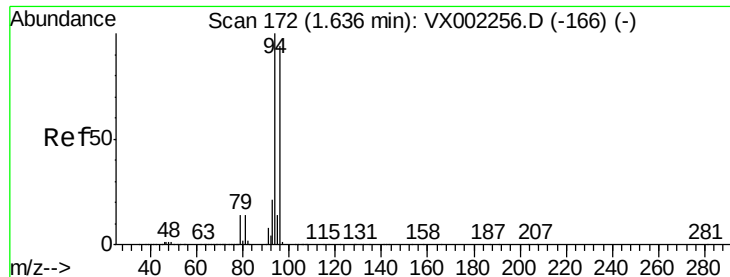
52 46.0 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 169

Delta R.T. -0.02 min

Lab File: VX002464.D

Acq: 12 Jun 2018 14:11

Instrument :

MSVOA_X

ClientSampled :

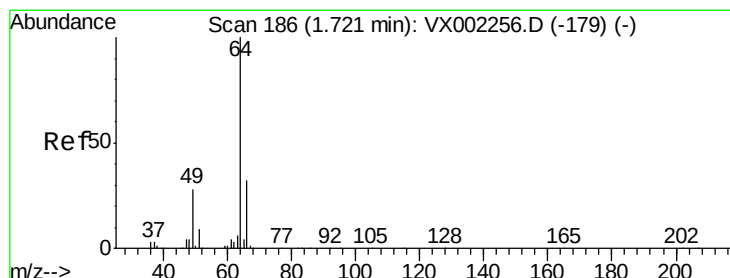
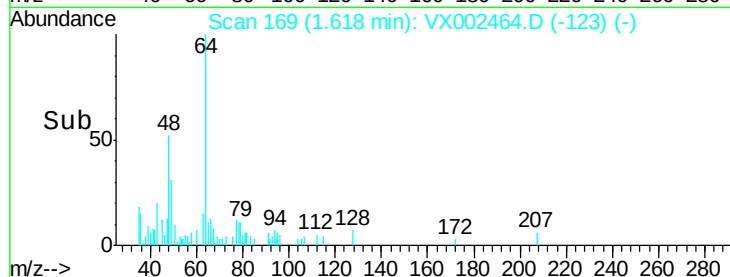
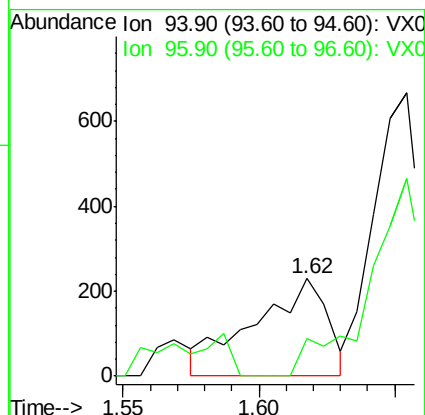
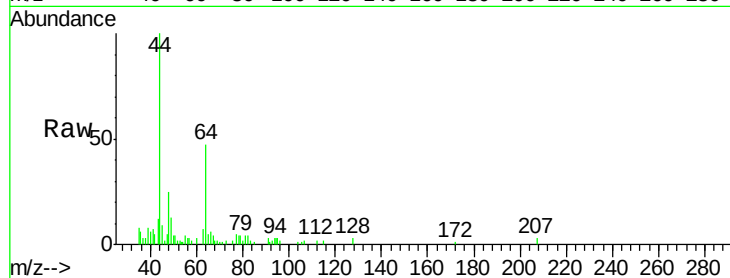
MH-30(0-5)

Tgt Ion: 94 Resp: 429

Ion Ratio Lower Upper

94 100

96 21.2 74.9 112.3#



#6

Chloroethane

Concen: 0.54 ug/l

RT: 1.61 min Scan# 167

Delta R.T. -0.12 min

Lab File: VX002464.D

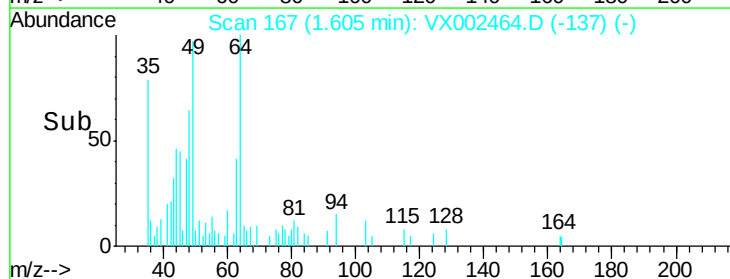
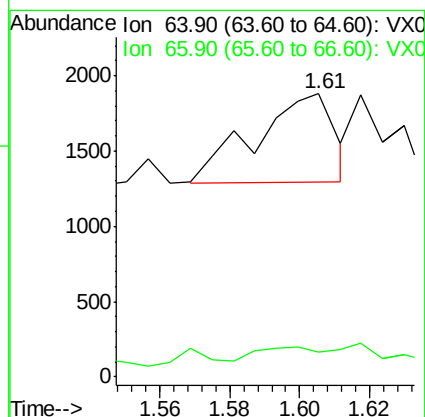
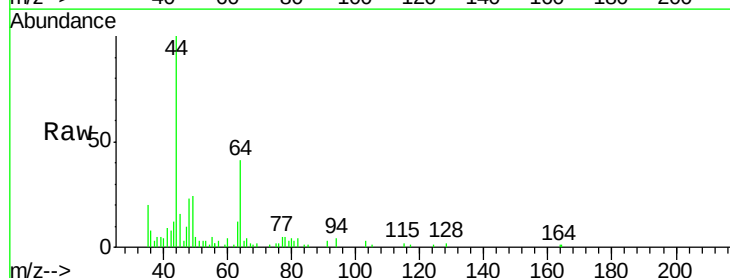
Acq: 12 Jun 2018 14:11

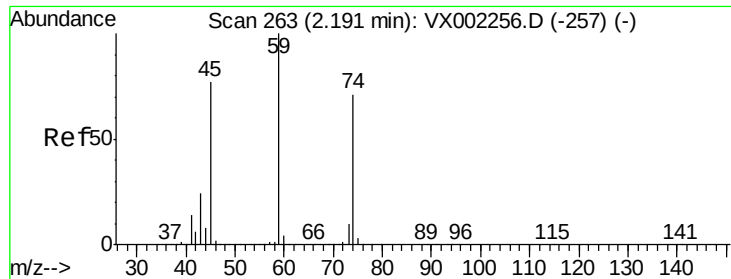
Tgt Ion: 64 Resp: 926

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#

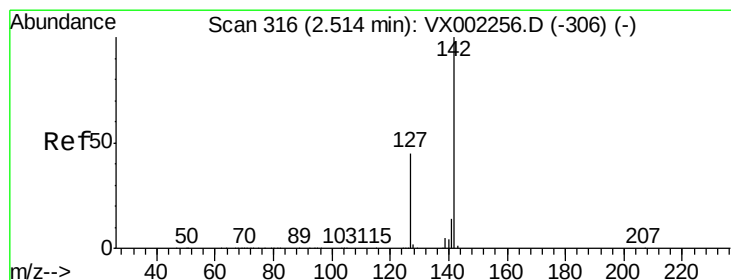
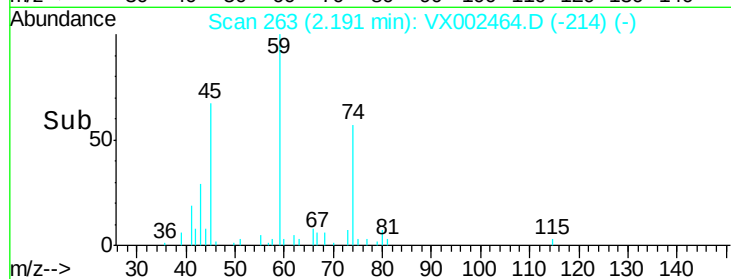
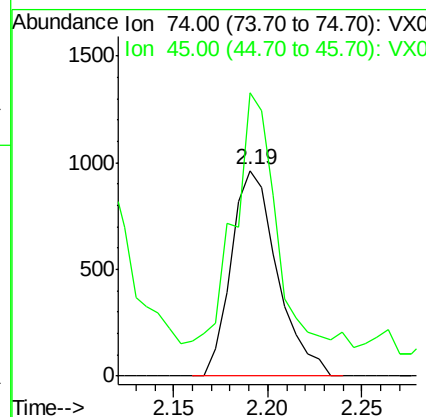
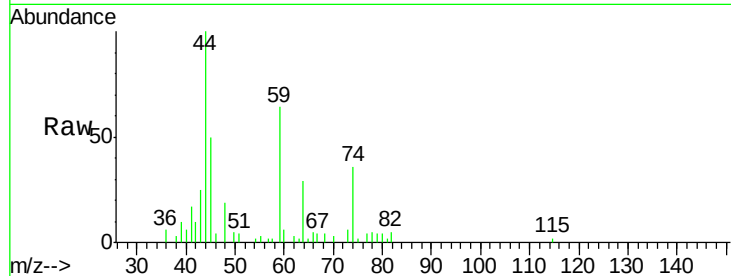




#8
 Diethyl Ether
 Concen: Below Cal
 RT: 2.19 min Scan# 263
 Delta R.T. 0.00 min
 Lab File: VX002464.D
 Acq: 12 Jun 2018 14:11

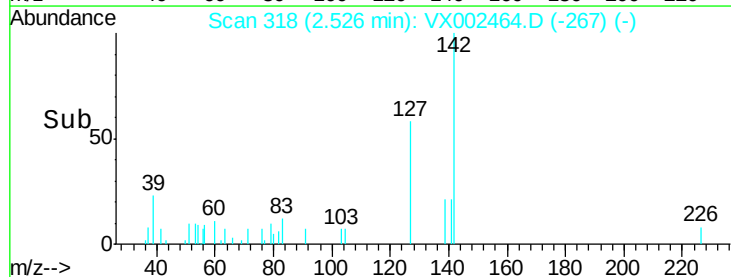
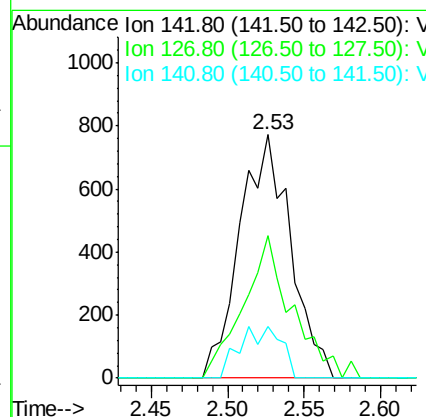
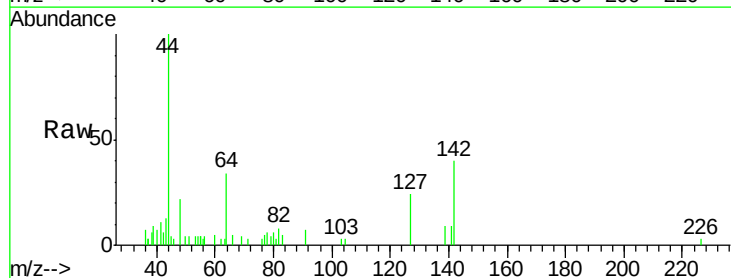
Instrument :
 MSVOA_X
 ClientSampled :
 MH-30(0-5)

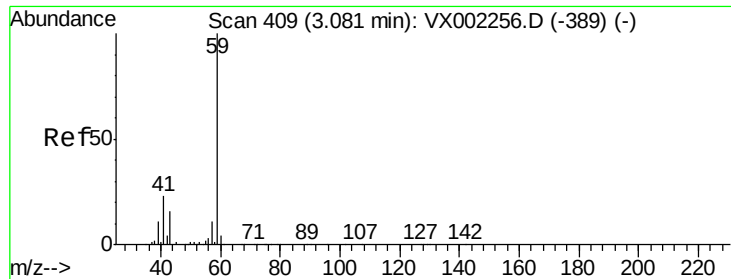
Tgt Ion: 74 Resp: 1634
 Ion Ratio Lower Upper
 74 100
 45 116.1 53.1 159.4



#10
 Methyl Iodide
 Concen: 0.58 ug/l
 RT: 2.53 min Scan# 318
 Delta R.T. 0.01 min
 Lab File: VX002464.D
 Acq: 12 Jun 2018 14:11

Tgt Ion: 142 Resp: 1780
 Ion Ratio Lower Upper
 142 100
 127 56.5 36.6 55.0#
 141 17.4 11.3 16.9#

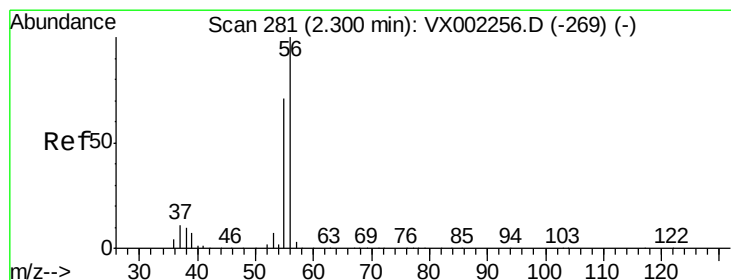
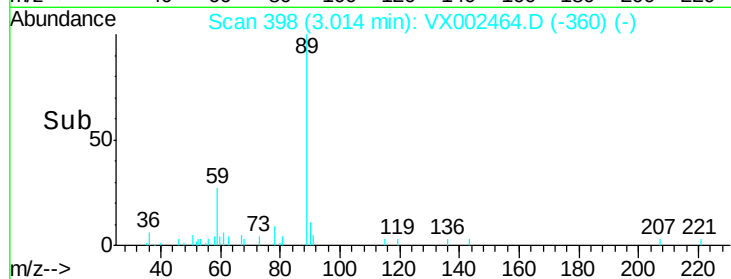
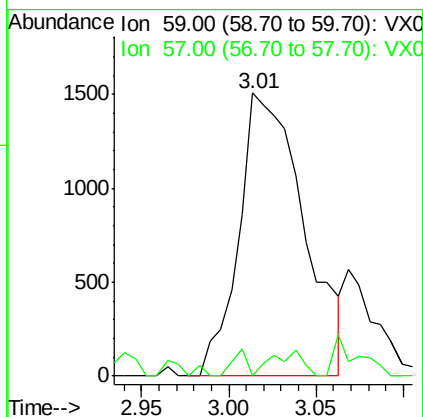
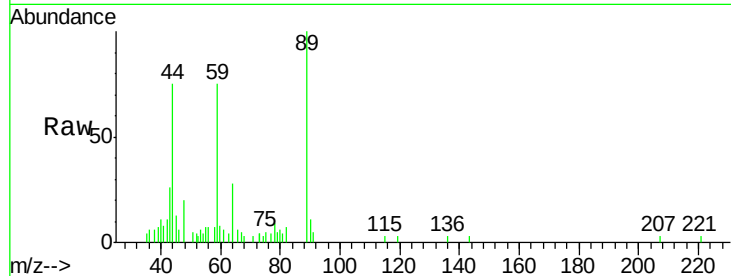




#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.01 min Scan# 398
Delta R.T. -0.07 min
Lab File: VX002464.D
Acq: 12 Jun 2018 14:11

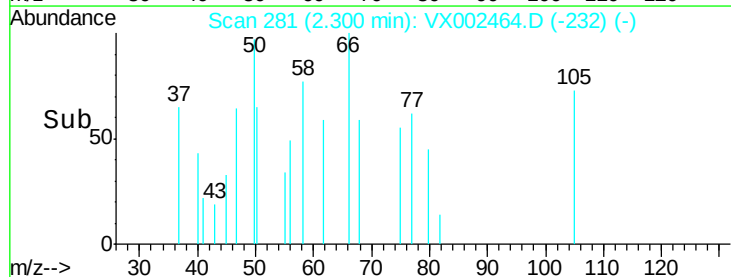
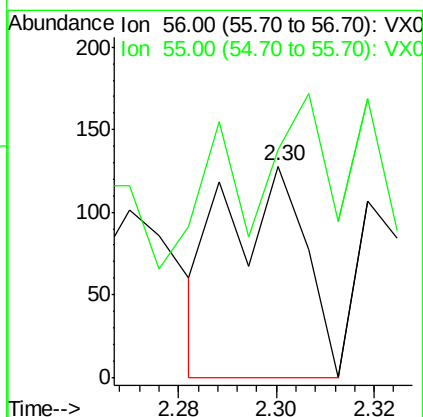
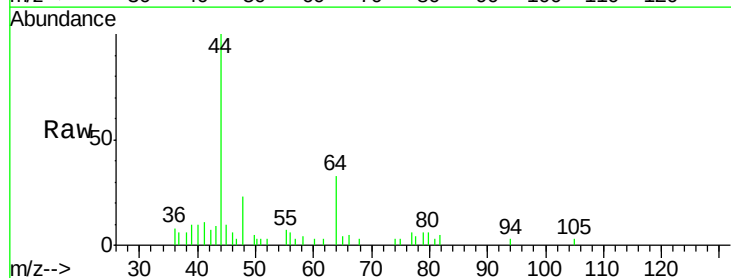
Instrument :
MSVOA_X
ClientSampled :
MH-30(0-5)

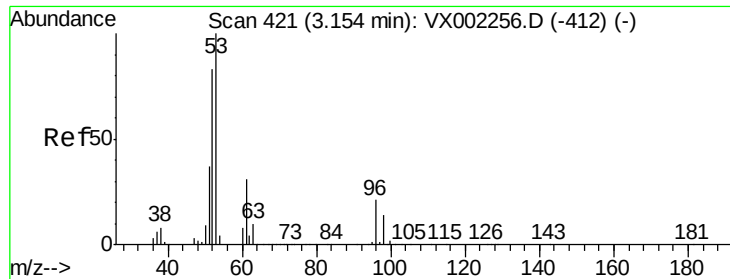
Tgt Ion: 59 Resp: 3887
Ion Ratio Lower Upper
59 100
57 2.1 8.2 12.2#



#13
Acrolein
Concen: Below Cal
RT: 2.30 min Scan# 281
Delta R.T. 0.00 min
Lab File: VX002464.D
Acq: 12 Jun 2018 14:11

Tgt Ion: 56 Resp: 143
Ion Ratio Lower Upper
56 100
55 173.4 57.0 85.4#





#15

Acrylonitrile

Concen: Below Cal

RT: 3.13 min Scan# 417

Delta R.T. -0.02 min

Lab File: VX002464.D

Acq: 12 Jun 2018 14:11

Instrument :

MSVOA_X

ClientSampled :

MH-30(0-5)

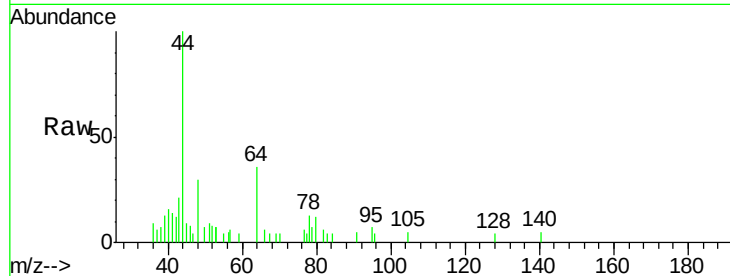
Tgt Ion: 53 Resp: 233

Ion Ratio Lower Upper

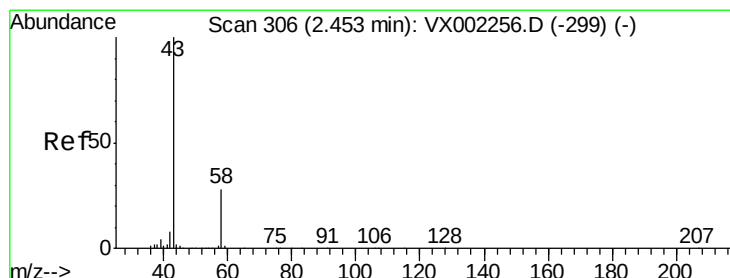
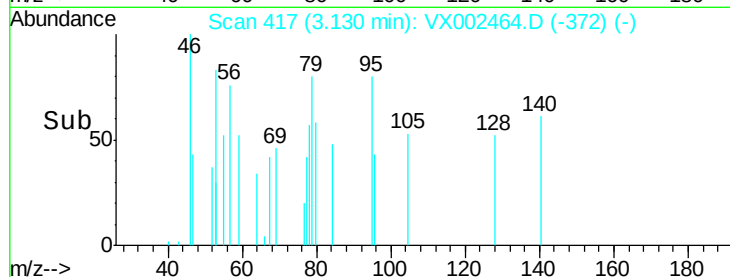
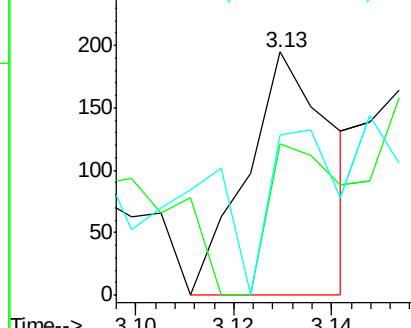
53 100

52 50.2 66.7 100.1#

51 53.2 29.9 44.9#



Abundance Ion 53.00 (52.70 to 53.70): VX0
Ion 52.00 (51.70 to 52.70): VX0
Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002464.D

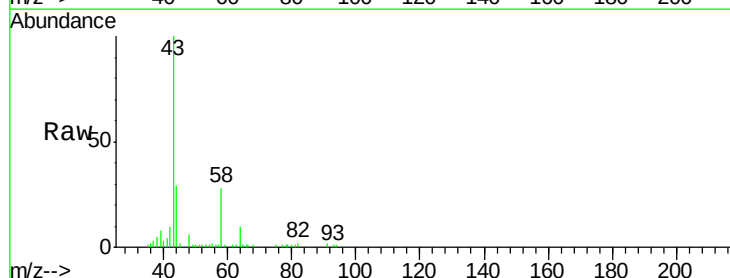
Acq: 12 Jun 2018 14:11

Tgt Ion: 43 Resp: 12624

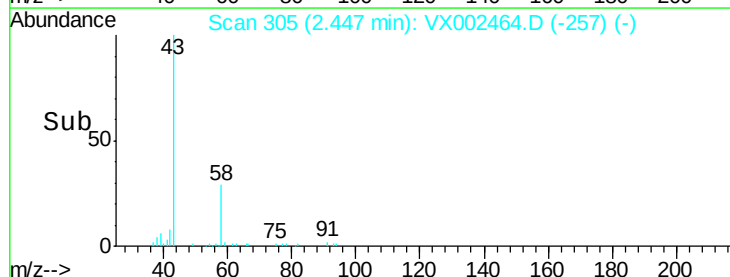
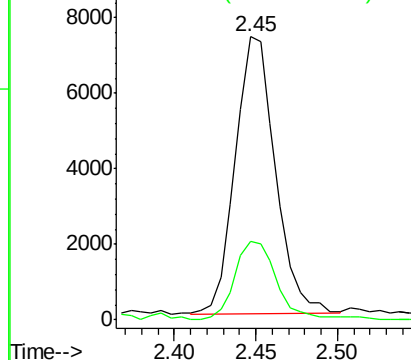
Ion Ratio Lower Upper

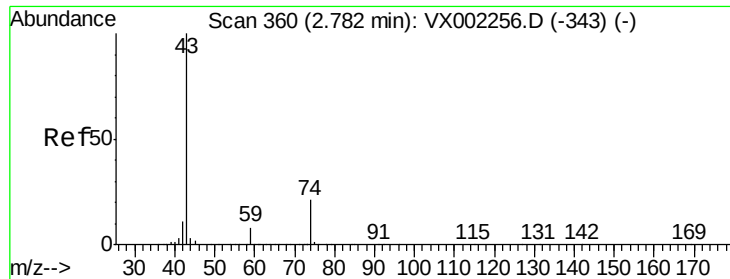
43 100

58 28.3 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

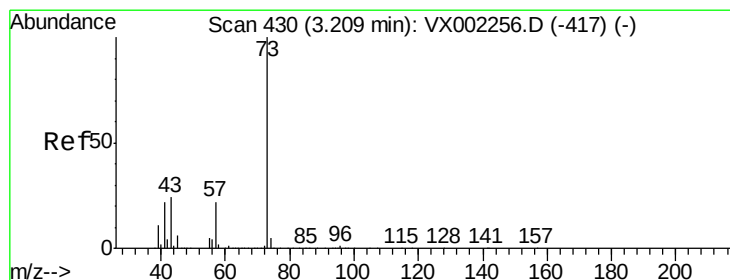
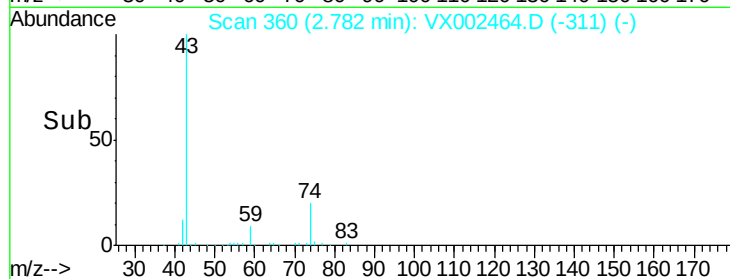
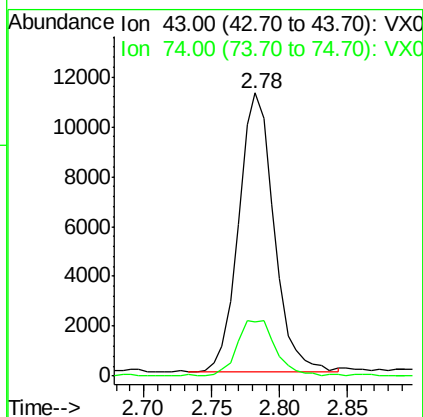
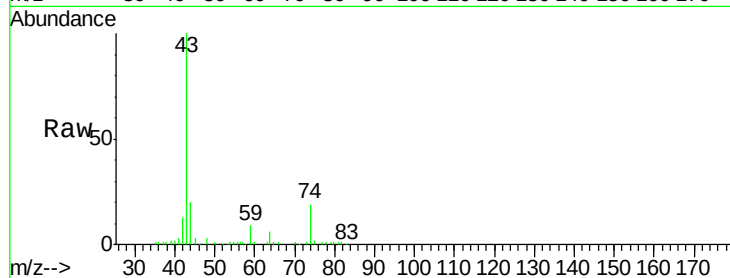




#18
Methyl Acetate
Concen: 4.46 ug/l
RT: 2.78 min Scan# 360
Delta R.T. 0.00 min
Lab File: VX002464.D
Acq: 12 Jun 2018 14:11

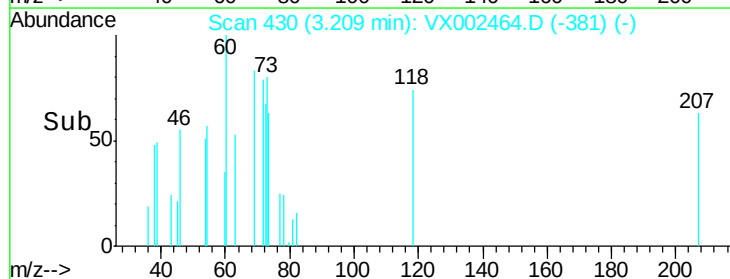
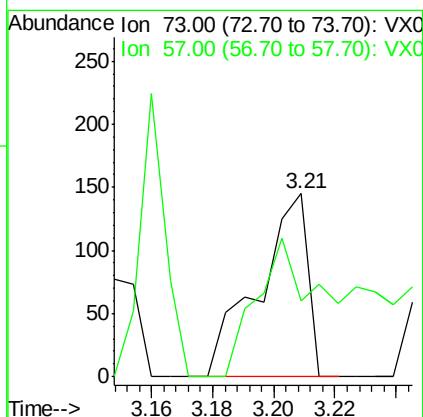
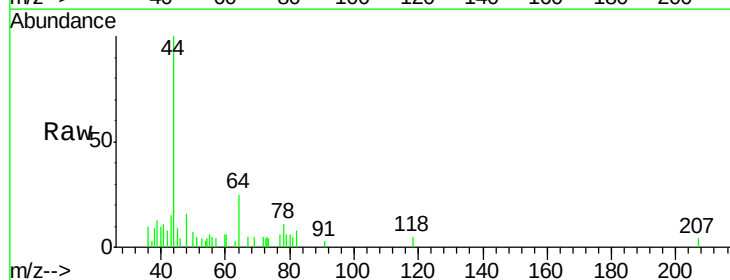
Instrument :
MSVOA_X
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MH-30(0-5)

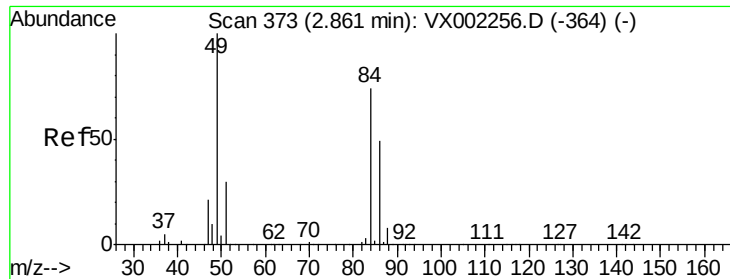
Tgt Ion: 43 Resp: 20227
Ion Ratio Lower Upper
43 100
74 21.8 16.7 25.1



#19
Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.21 min Scan# 430
Delta R.T. 0.00 min
Lab File: VX002464.D
Acq: 12 Jun 2018 14:11

Tgt Ion: 73 Resp: 162
Ion Ratio Lower Upper
73 100
57 41.4 17.7 26.5#

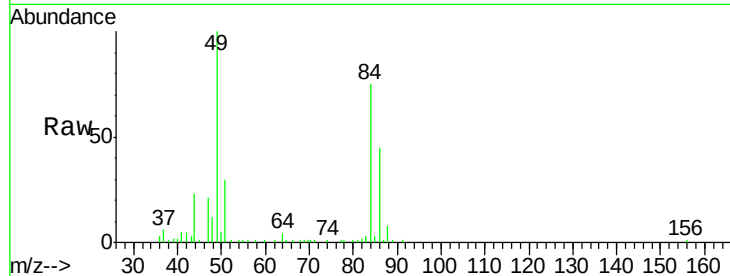




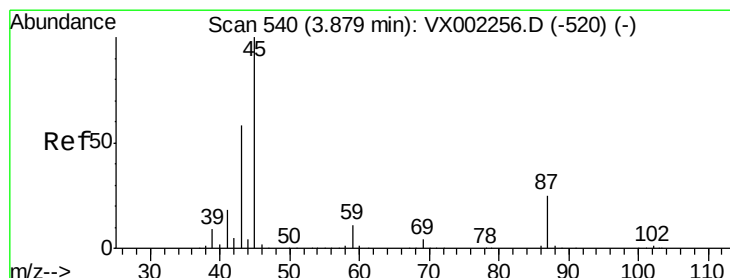
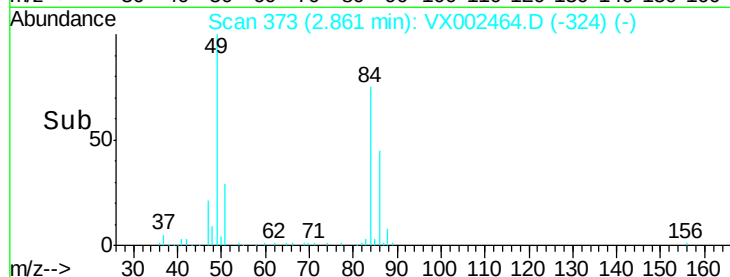
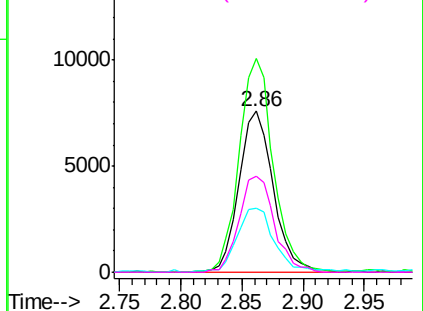
#20
Methylene Chloride
Concen: 3.87 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002464.D
Acq: 12 Jun 2018 14:11

Instrument :
MSVOA_X
ClientSampleId :
MH-30(0-5)

Tgt Ion: 84 Resp: 14827
Ion Ratio Lower Upper
84 100
49 132.7 107.8 161.6
51 39.5 32.8 49.2
86 59.8 52.5 78.7

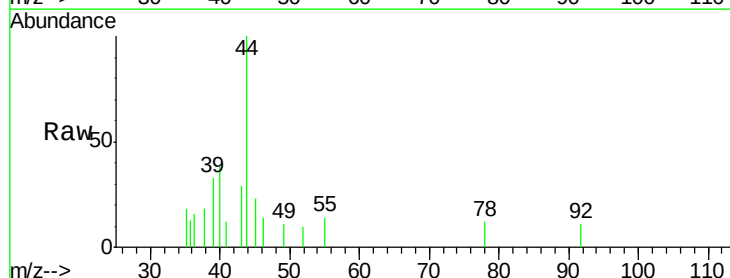


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

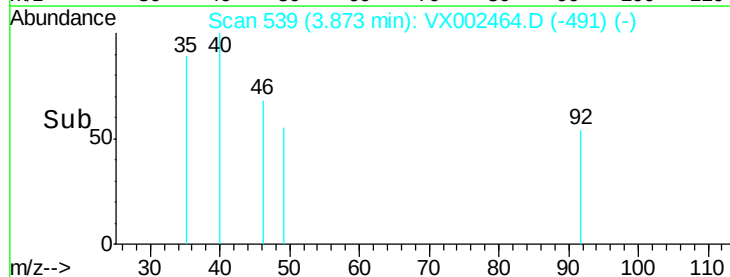
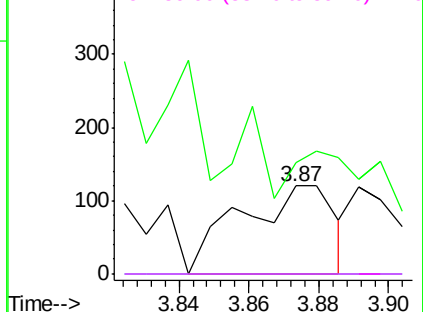


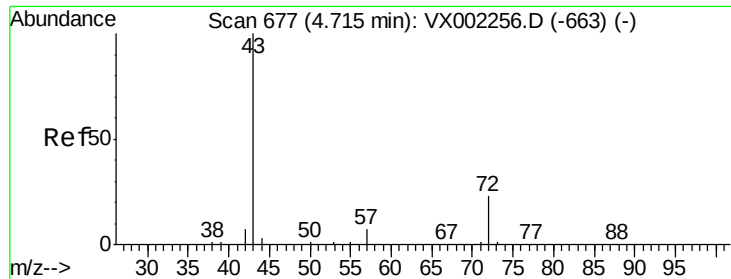
#22
Diisopropyl ether
Concen: Below Cal
RT: 3.87 min Scan# 539
Delta R.T. -0.01 min
Lab File: VX002464.D
Acq: 12 Jun 2018 14:11

Tgt Ion: 45 Resp: 226
Ion Ratio Lower Upper
45 100
43 0.0 46.8 70.2#
87 0.0 20.2 30.4#
59 0.0 8.7 13.1#



Abundance Ion 45.00 (44.70 to 45.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 87.00 (86.70 to 87.70): VX0
Ion 59.00 (58.70 to 59.70): VX0





#25

2-Butanone

Concen: 2.36 ug/l

RT: 4.71 min Scan# 677

Delta R.T. 0.00 min

Lab File: VX002464.D

Acq: 12 Jun 2018 14:11

Instrument :

MSVOA_X

ClientSampled :

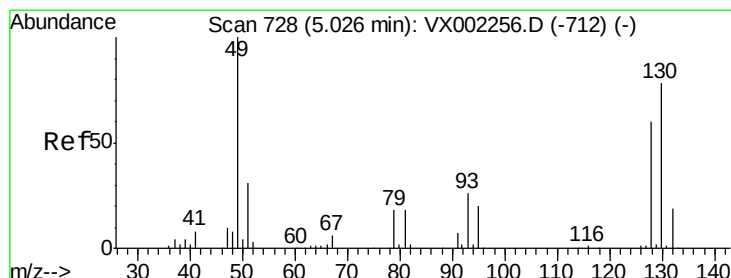
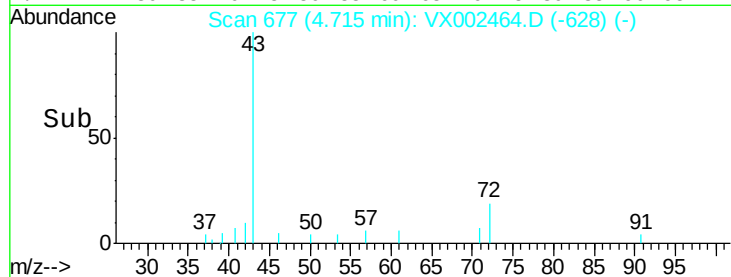
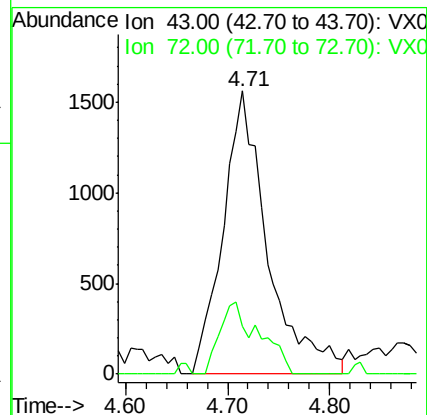
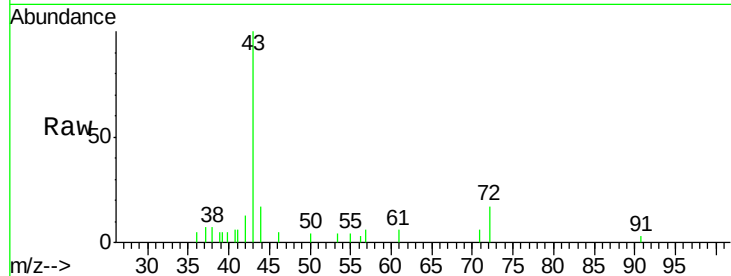
MH-30(0-5)

Tgt Ion: 43 Resp: 4734

Ion Ratio Lower Upper

43 100

72 17.1 18.5 27.7#



#28

Bromochloromethane

Concen: Below Cal

RT: 5.04 min Scan# 731

Delta R.T. 0.02 min

Lab File: VX002464.D

Acq: 12 Jun 2018 14:11

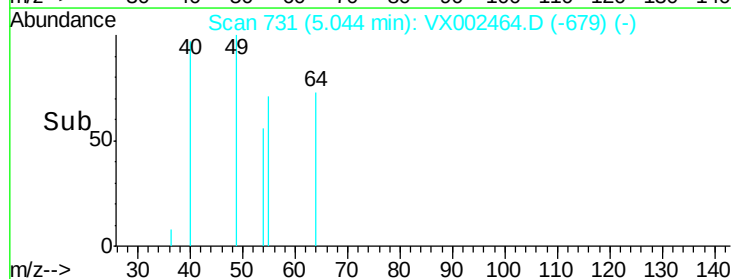
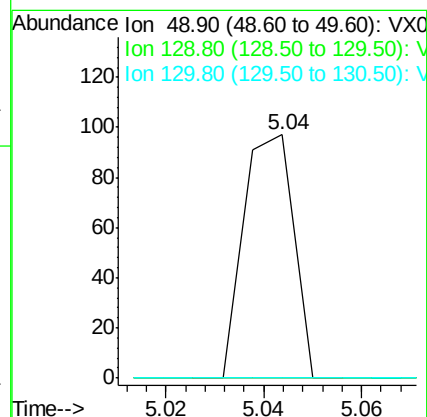
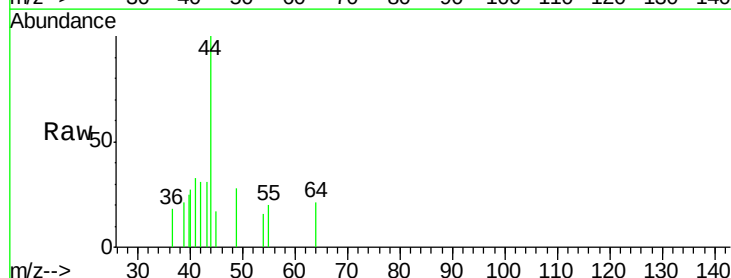
Tgt Ion: 49 Resp: 69

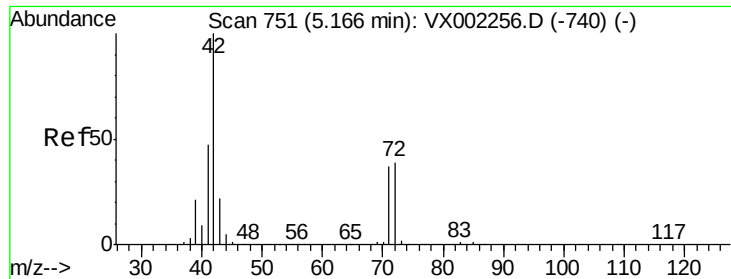
Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

130 0.0 61.2 91.8#

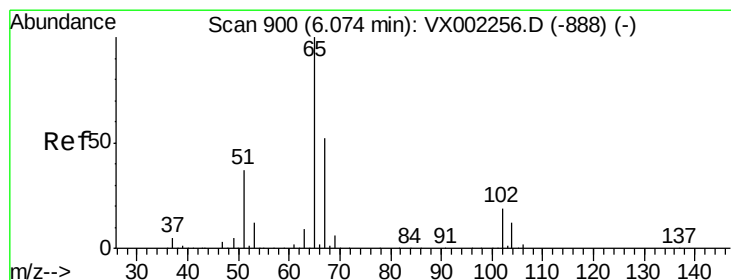
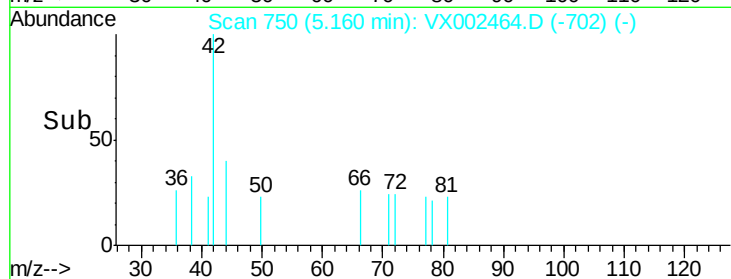
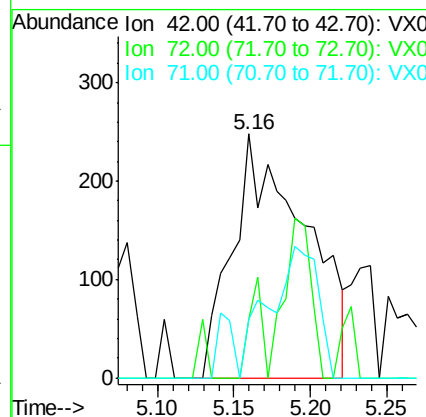
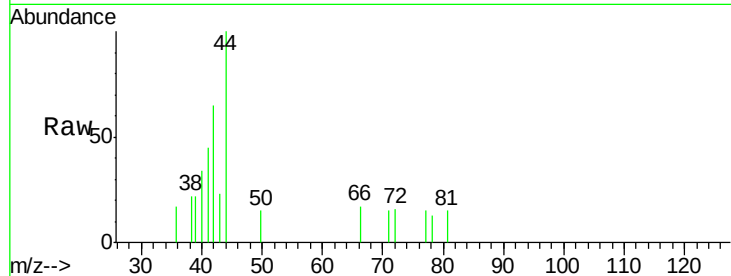




#29
Tetrahydrofuran
Concen: 0.63 ug/l
RT: 5.16 min Scan# 750
Delta R.T. -0.01 min
Lab File: VX002464.D
Acq: 12 Jun 2018 14:11

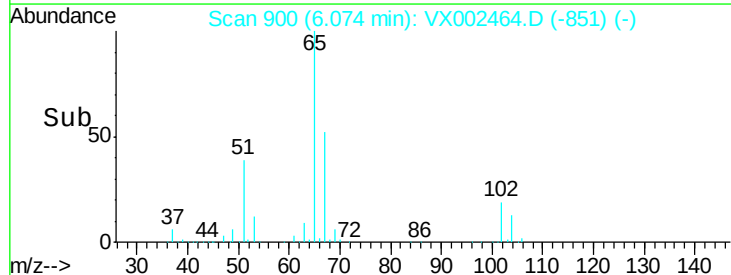
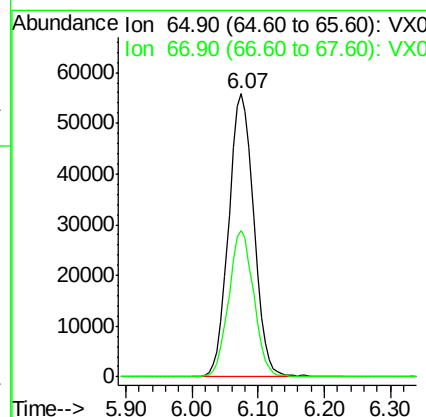
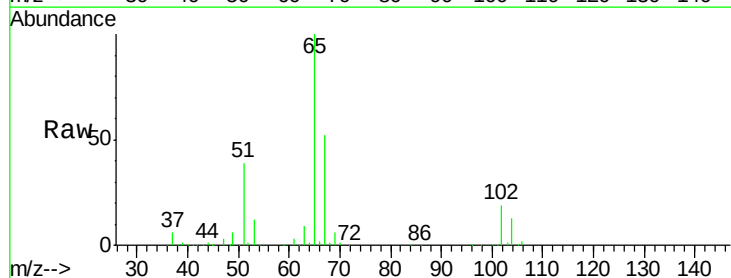
Instrument :
MSVOA_X
ClientSampleId :
MH-30(0-5)

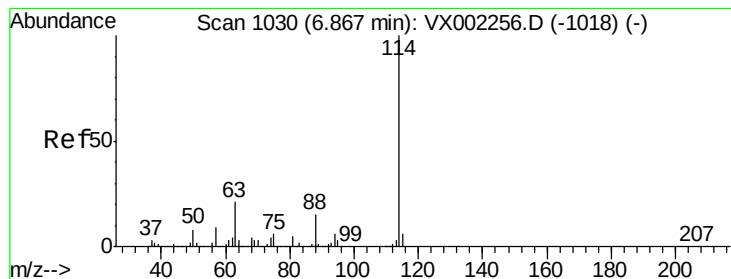
Tgt Ion: 42 Resp: 819
Ion Ratio Lower Upper
42 100
72 7.2 32.0 48.0#
71 0.0 30.1 45.1#



#33
1,2-Dichloroethane-d4
Concen: 50.44 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.00 min
Lab File: VX002464.D
Acq: 12 Jun 2018 14:11

Tgt Ion: 65 Resp: 147215
Ion Ratio Lower Upper
65 100
67 51.4 0.0 102.6





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX002464.D

Acq: 12 Jun 2018 14:11

Instrument :

MSVOA_X

ClientSampleId :

MH-30(0-5)

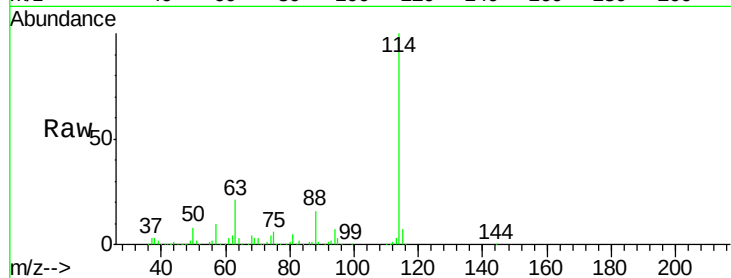
Tgt Ion:114 Resp: 298323

Ion Ratio Lower Upper

114 100

63 21.0 0.0 41.4

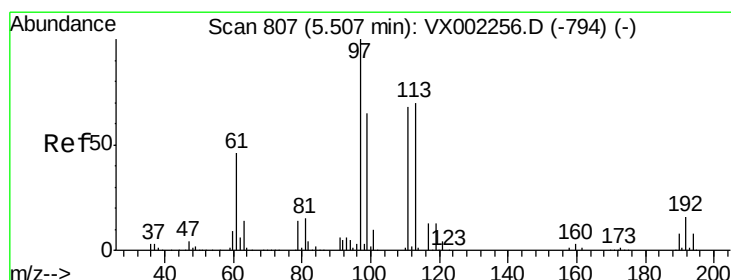
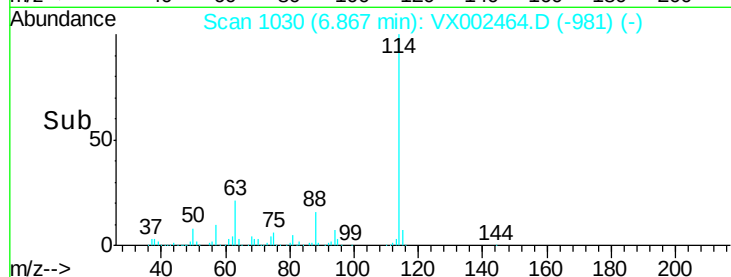
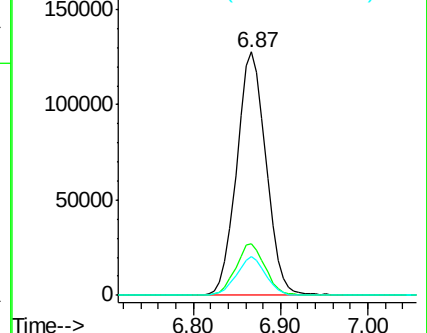
88 15.8 0.0 30.0



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: 47.21 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX002464.D

Acq: 12 Jun 2018 14:11

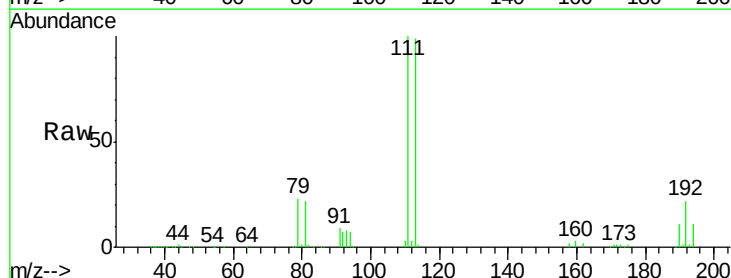
Tgt Ion:113 Resp: 110745

Ion Ratio Lower Upper

113 100

111 101.9 81.4 122.0

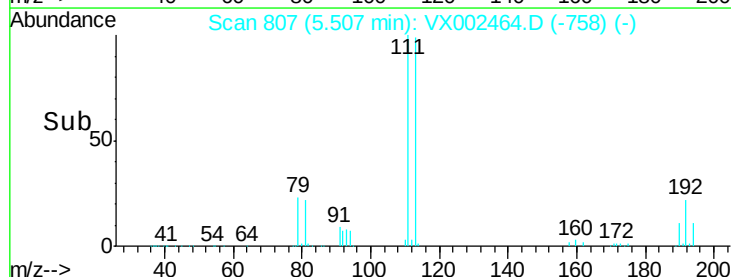
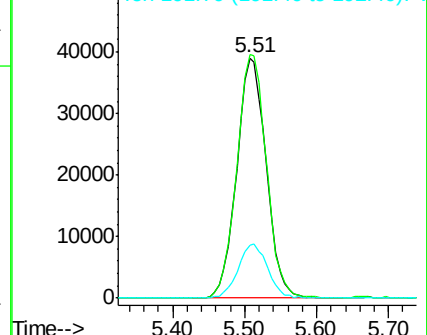
192 22.6 19.1 28.7

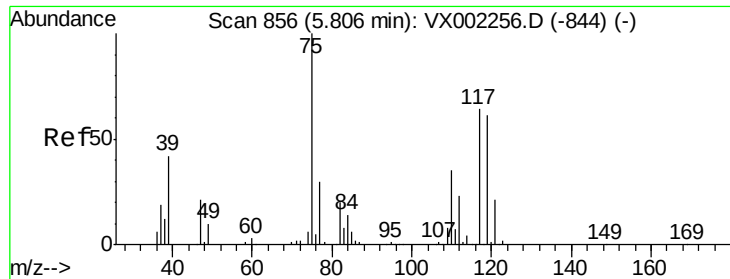


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

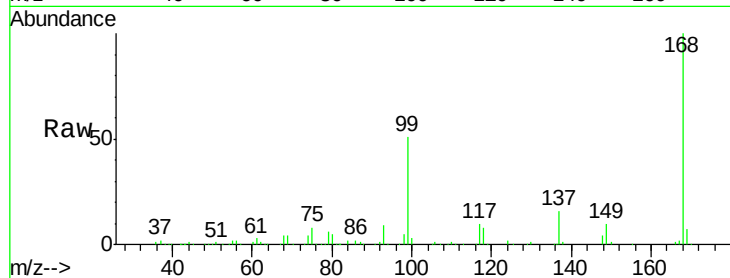




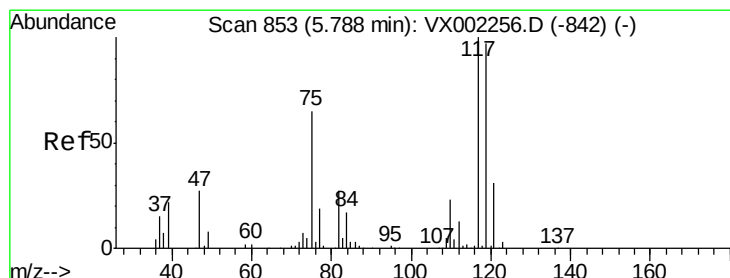
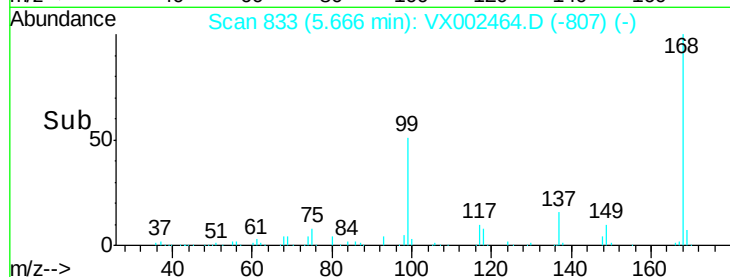
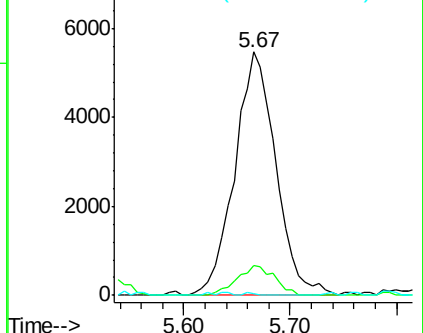
#36
 1,1-Dichloropropene
 Concen: 4.72 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.14 min
 Lab File: VX002464.D
 Acq: 12 Jun 2018 14:11

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-30(0-5)

Tgt Ion: 75 Resp: 14817
 Ion Ratio Lower Upper
 75 100
 110 11.3 18.1 54.4#
 77 0.3 24.3 36.5#

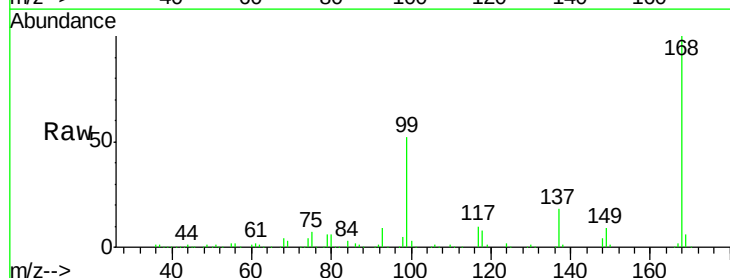


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

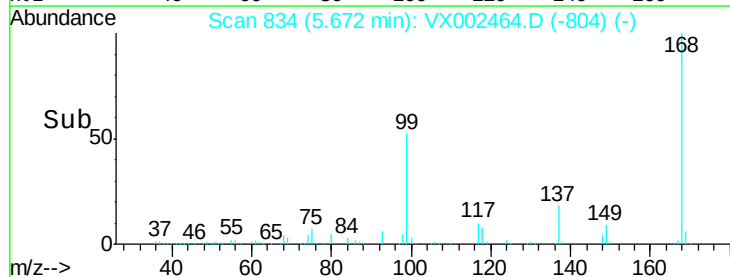
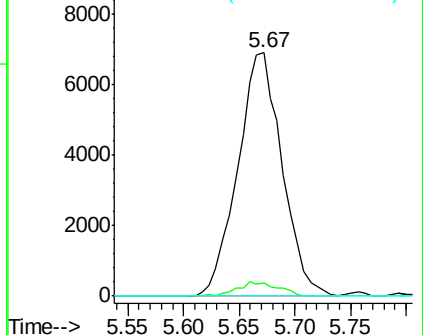


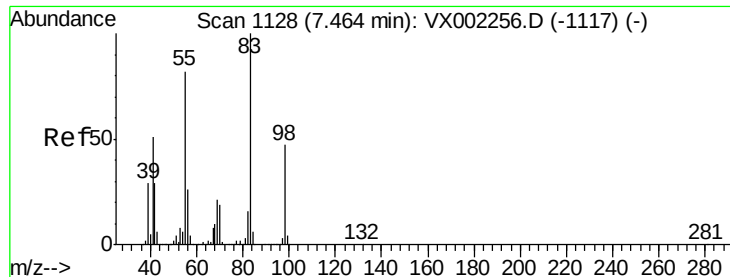
#38
 Carbon Tetrachloride
 Concen: 5.83 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX002464.D
 Acq: 12 Jun 2018 14:11

Tgt Ion: 117 Resp: 19113
 Ion Ratio Lower Upper
 117 100
 119 5.5 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: 0.30 ug/l

RT: 7.47 min Scan# 1129

Delta R.T. 0.01 min

Lab File: VX002464.D

Acq: 12 Jun 2018 14:11

Instrument :

MSVOA_X

ClientSampled :

MH-30(0-5)

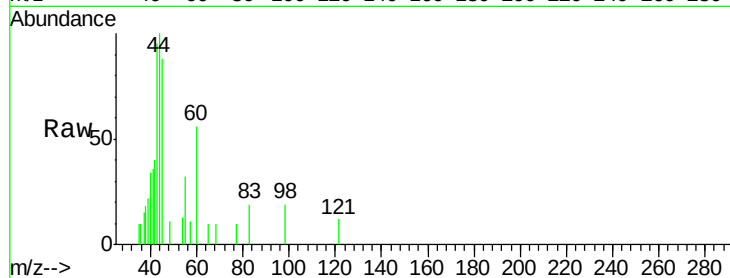
Tgt Ion: 83 Resp: 164

Ion Ratio Lower Upper

83 100

55 87.3 65.4 98.0

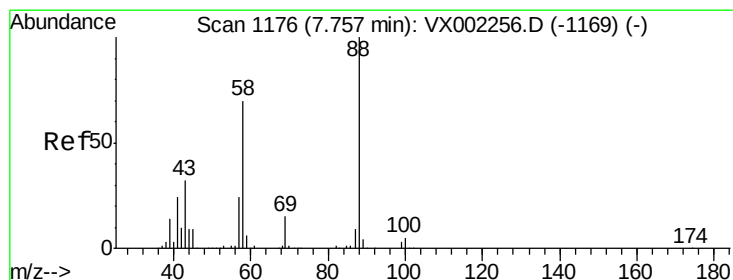
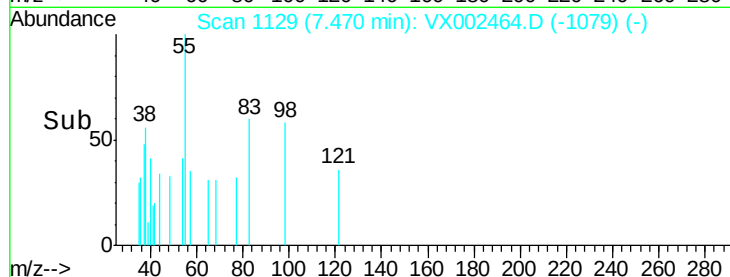
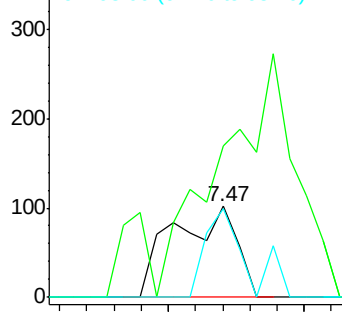
98 97.1 37.4 56.0#



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0



#49

1,4-Dioxane

Concen: 0.33 ug/l

RT: 7.88 min Scan# 1197

Delta R.T. 0.13 min

Lab File: VX002464.D

Acq: 12 Jun 2018 14:11

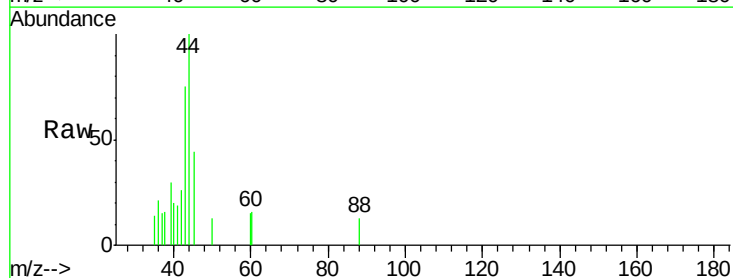
Tgt Ion: 88 Resp: 20

Ion Ratio Lower Upper

88 100

43 1100.0 29.8 44.6#

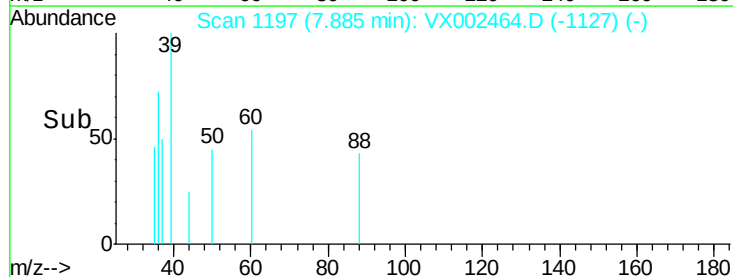
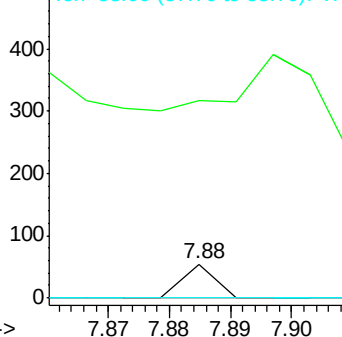
58 0.0 57.1 85.7#

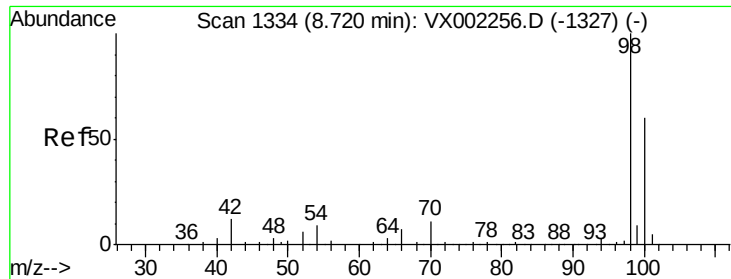


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

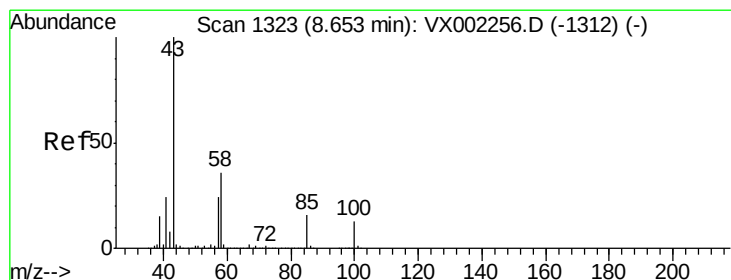
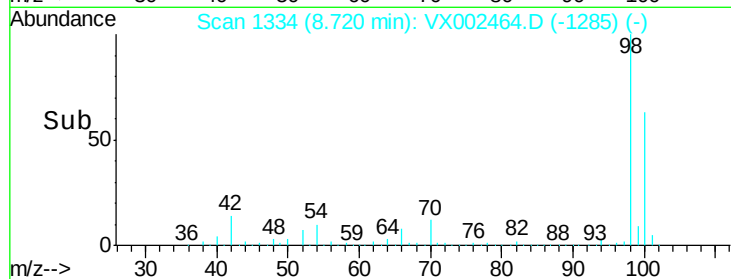
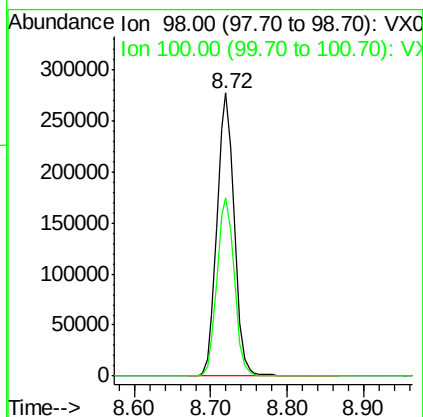
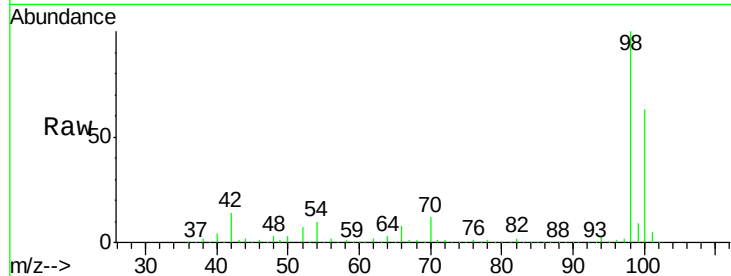




#50
Toluene-d8
Concen: 48.11 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002464.D
Acq: 12 Jun 2018 14:11

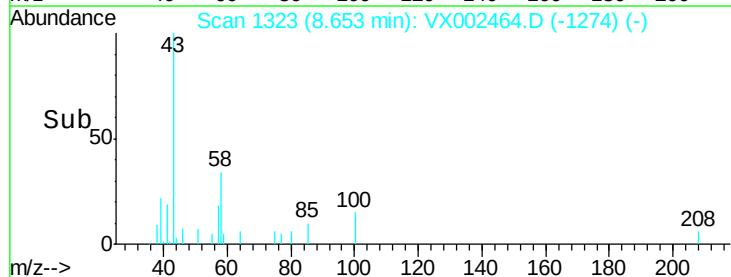
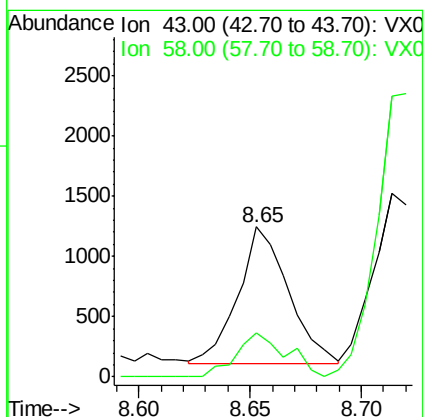
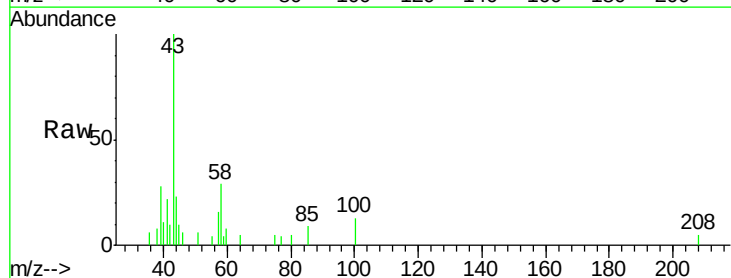
Instrument :
MSVOA_X
ClientSampled :
MH-30(0-5)

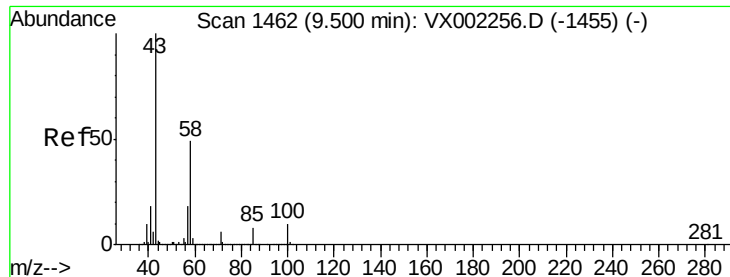
Tgt Ion: 98 Resp: 432636
Ion Ratio Lower Upper
98 100
100 63.2 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 0.45 ug/l
RT: 8.65 min Scan# 1323
Delta R.T. 0.00 min
Lab File: VX002464.D
Acq: 12 Jun 2018 14:11

Tgt Ion: 43 Resp: 1783
Ion Ratio Lower Upper
43 100
58 31.7 28.6 42.8

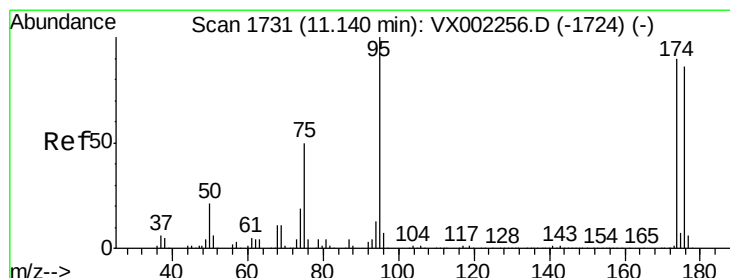
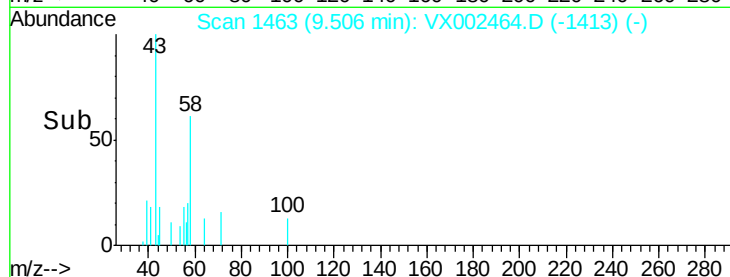
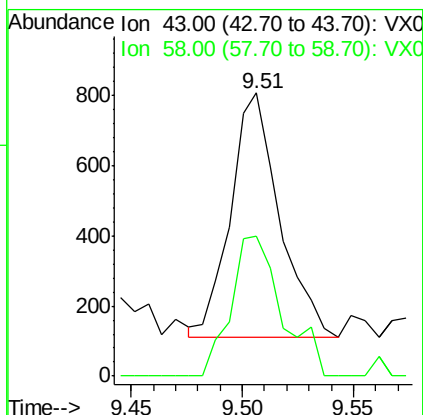
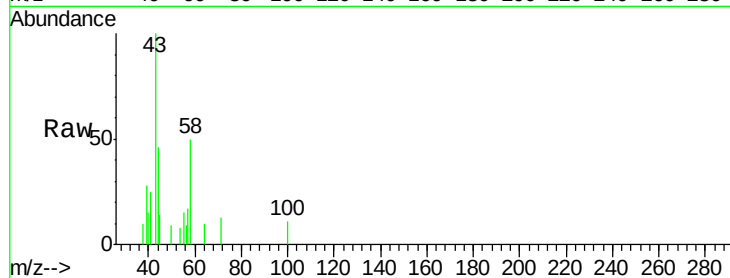




#59
2-Hexanone
Concen: 0.34 ug/l
RT: 9.51 min Scan# 1463
Delta R.T. 0.01 min
Lab File: VX002464.D
Acq: 12 Jun 2018 14:11

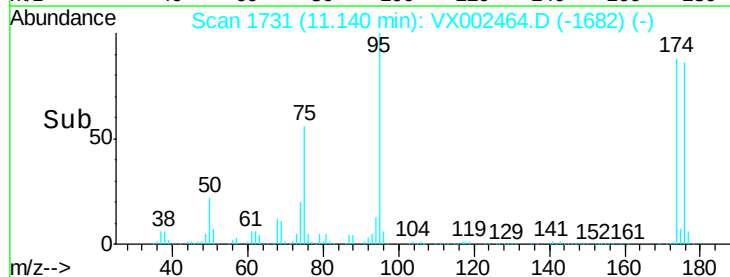
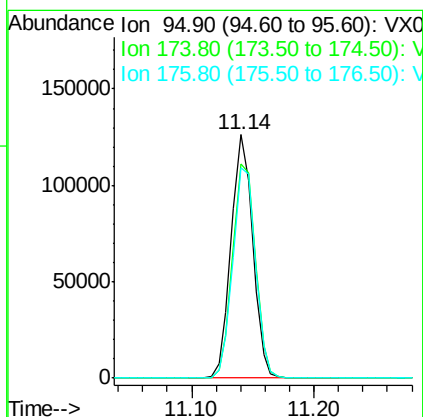
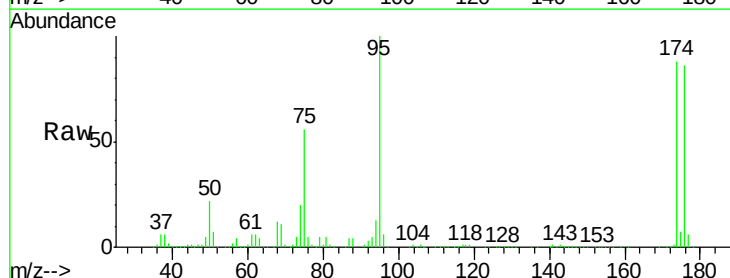
Instrument :
MSVOA_X
ClientSampleId :
MH-30(0-5)

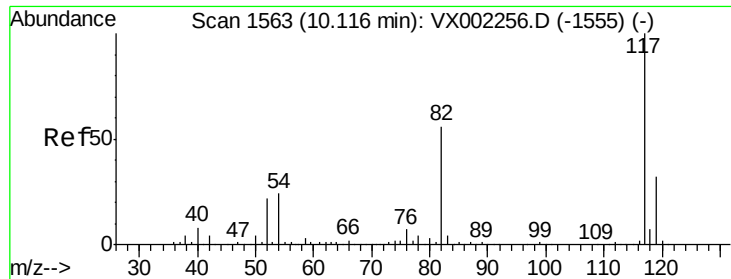
Tgt Ion: 43 Resp: 1058
Ion Ratio Lower Upper
43 100
58 60.3 24.6 73.6



#62
4-Bromofluorobenzene
Concen: 44.39 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002464.D
Acq: 12 Jun 2018 14:11

Tgt Ion: 95 Resp: 153916
Ion Ratio Lower Upper
95 100
174 93.3 0.0 187.4
176 90.5 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: VX002464.D

Acq: 12 Jun 2018 14:11

Instrument :

MSVOA_X

ClientSampled :

MH-30(0-5)

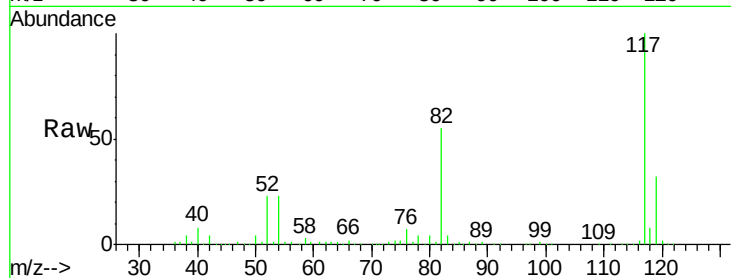
Tgt Ion:117 Resp: 281017

Ion Ratio Lower Upper

117 100

82 55.0 45.0 67.4

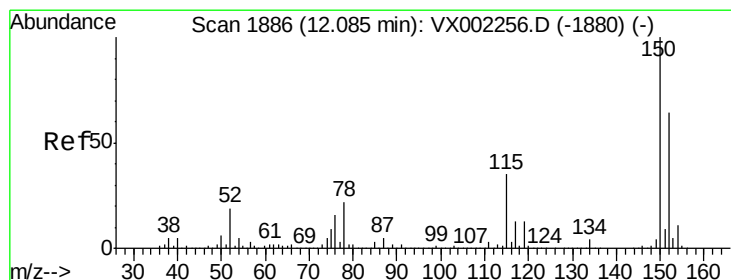
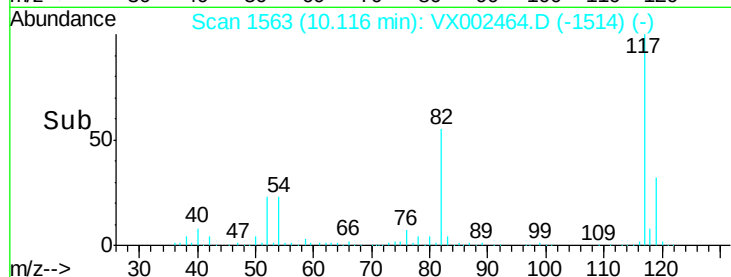
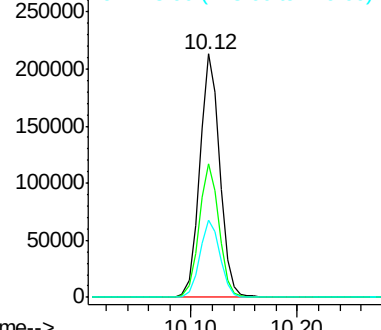
119 31.8 25.8 38.6



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: VX002464.D

Acq: 12 Jun 2018 14:11

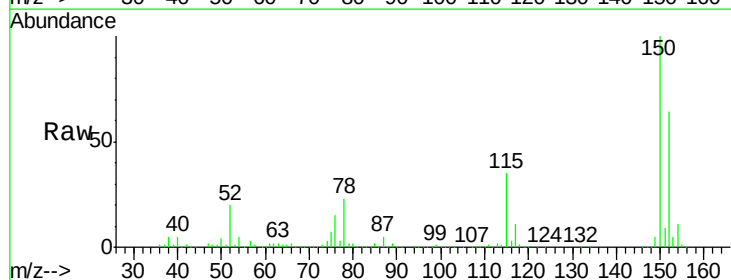
Tgt Ion:152 Resp: 159516

Ion Ratio Lower Upper

152 100

115 56.1 40.1 120.2

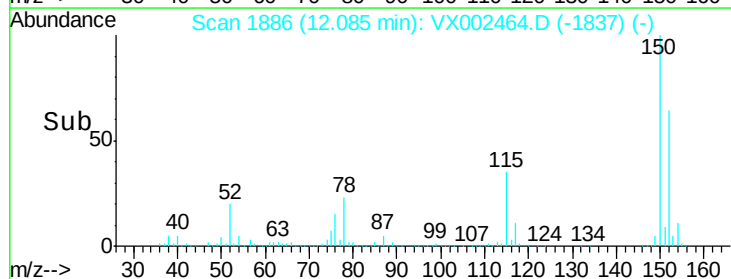
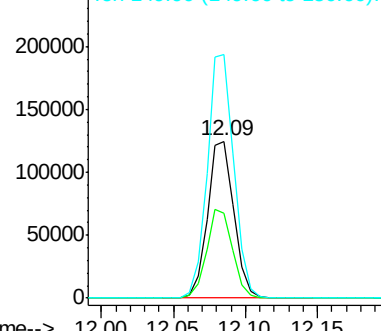
150 156.5 0.0 347.2

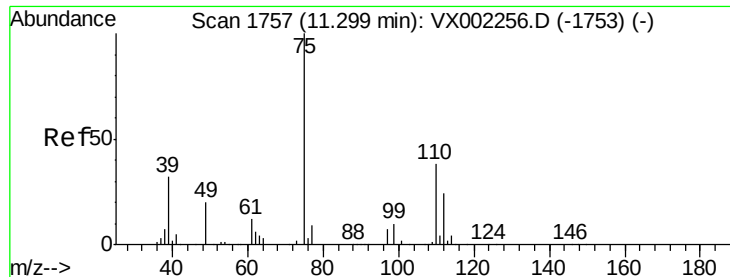


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

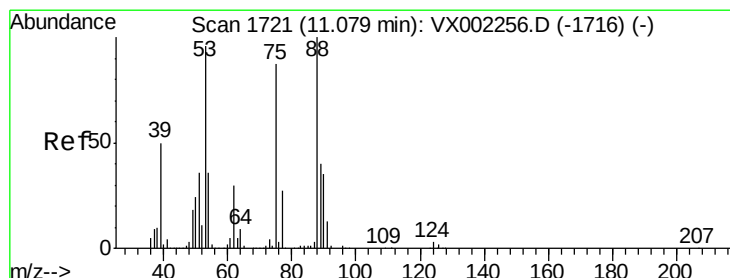
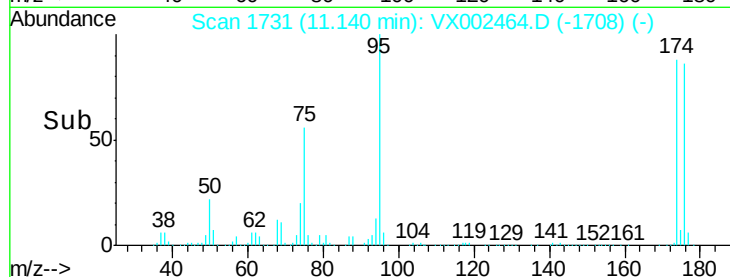
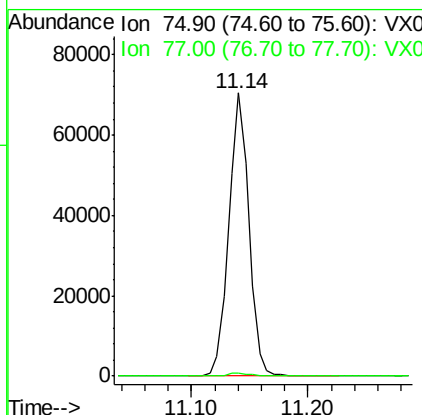
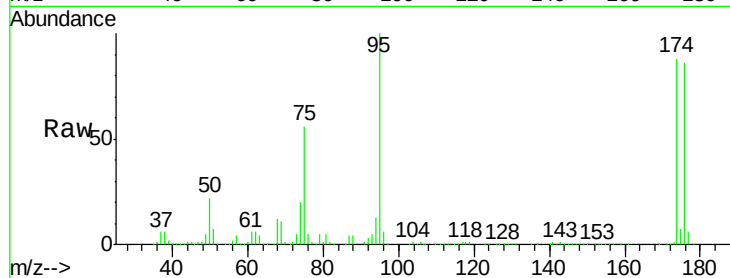




#76
 1,2,3-Trichloropropane
 Concen: 24.08 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX002464.D
 Acq: 12 Jun 2018 14:11

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-30(0-5)

Tgt Ion: 75 Resp: 84295
 Ion Ratio Lower Upper
 75 100
 77 1.2 22.8 68.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 84.42 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002464.D
 Acq: 12 Jun 2018 14:11

Tgt Ion: 75 Resp: 84295
 Ion Ratio Lower Upper
 75 100
 53 0.0 86.8 130.2#
 89 0.0 38.2 57.2#

