

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VO060618\
 Data File : VX002357.D
 Acq On : 06 Jun 2018 17:16
 Operator : JC/MD
 Sample : J3312-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 07 03:24:21 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	234411	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	338515	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	300729	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	157455	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	159321	47.35	ug/l	0.00
Spiked Amount 50.000			Recovery =	94.70%		
35) Dibromofluoromethane	5.51	113	119262	44.80	ug/l	0.00
Spiked Amount 50.000			Recovery =	89.60%		
50) Toluene-d8	8.72	98	479882	47.03	ug/l	0.00
Spiked Amount 50.000			Recovery =	94.06%		
62) 4-Bromofluorobenzene	11.14	95	162130	41.21	ug/l	0.00
Spiked Amount 50.000			Recovery =	82.42%		

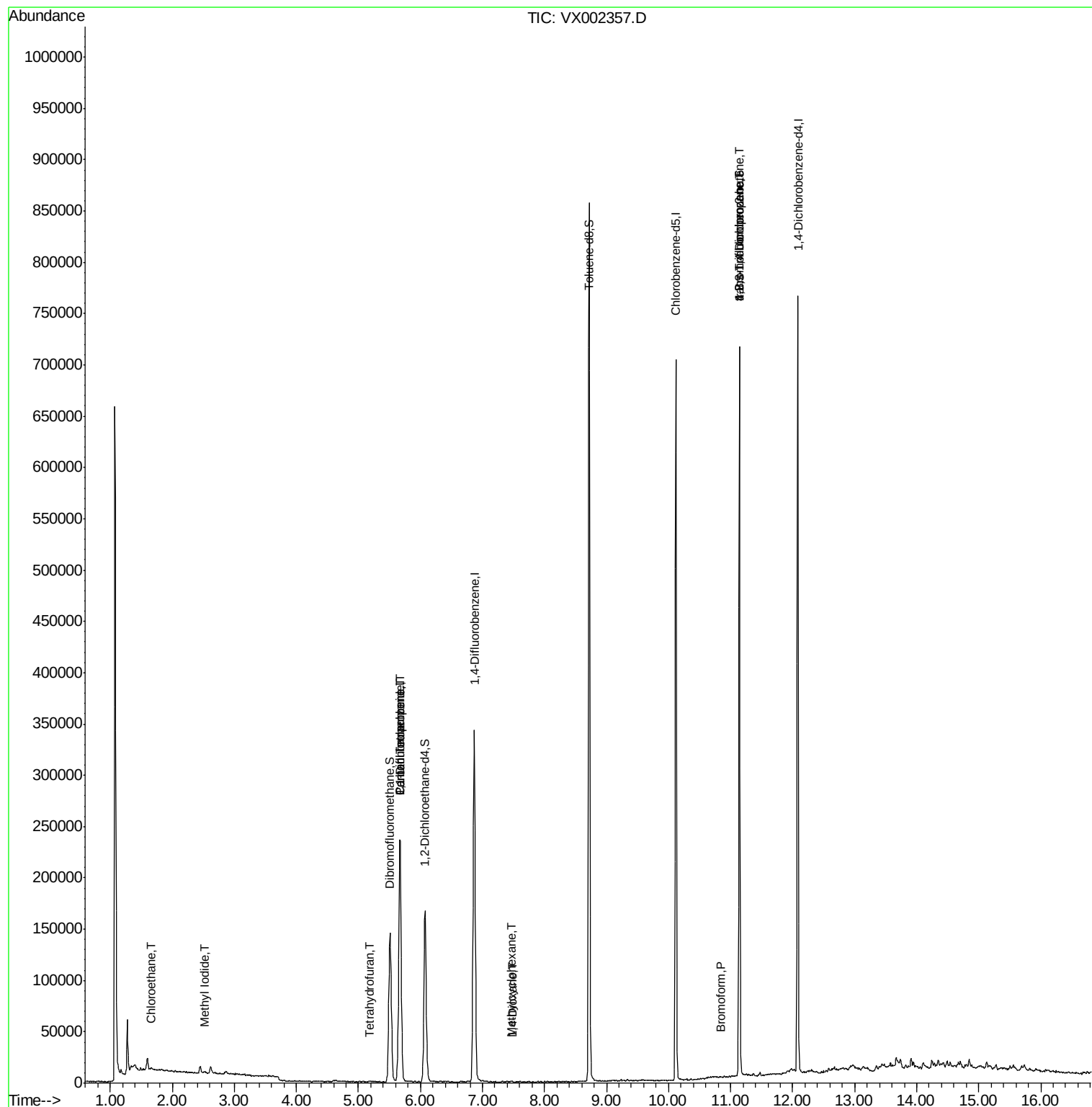
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	608	Below Cal	#	67
5) Bromomethane	1.66	94	902	Below Cal		92
6) Chloroethane	1.65	64	760	0.38	ug/l #	43
8) Diethyl Ether	2.23	74	71	Below Cal		80
10) Methyl Iodide	2.52	142	1360	0.38	ug/l #	86
11) Tert butyl alcohol	3.07	59	214	Below Cal	#	1
13) Acrolein	2.31	56	126	Below Cal	#	58
15) Acrylonitrile	3.17	53	83	Below Cal	#	26
16) Acetone	2.45	43	7315	Below Cal		96
18) Methyl Acetate	2.75	43	278	Below Cal	#	55
19) Methyl tert-butyl Ether	3.23	73	20	Below Cal	#	3
20) Methylene Chloride	2.86	84	1431	Below Cal		95
22) Diisopropyl ether	3.85	45	42	Below Cal	#	36
28) Bromochloromethane	5.07	49	45	Below Cal	#	13
29) Tetrahydrofuran	5.17	42	413	0.28	ug/l #	36
36) 1,1-Dichloropropene	5.67	75	15904	4.47	ug/l #	51
38) Carbon Tetrachloride	5.67	117	21807	5.86	ug/l #	16
39) Methylcyclohexane	7.46	83	256	0.32	ug/l #	67
49) 1,4-Dioxane	7.49	88	21	0.31	ug/l #	1
71) Bromoform	10.85	173	43	3.47	ug/l #	28
76) 1,2,3-Trichloropropane	11.14	75	86690	25.09	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.14	75	86690	87.95	ug/l #	6

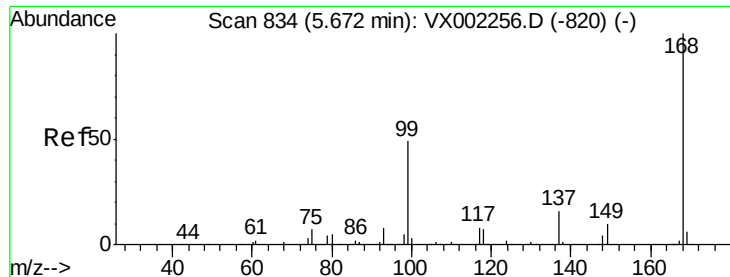
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002357.D

Acq: 06 Jun 2018 17:16

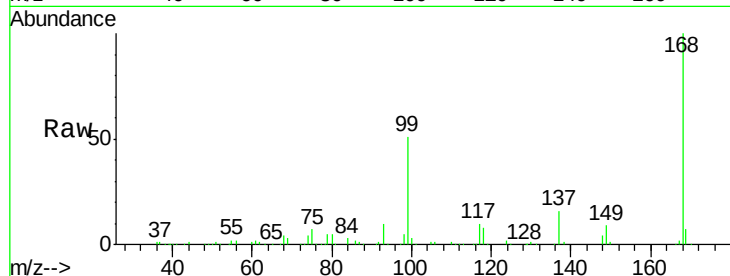
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 234411

Ion Ratio Lower Upper

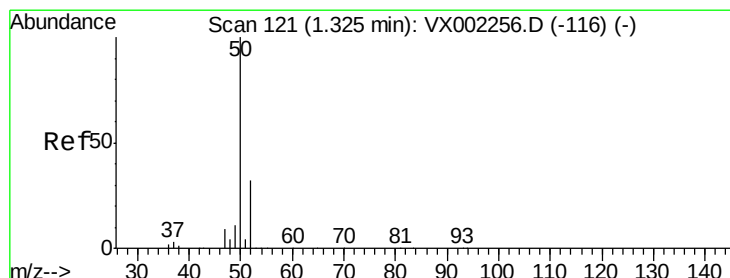
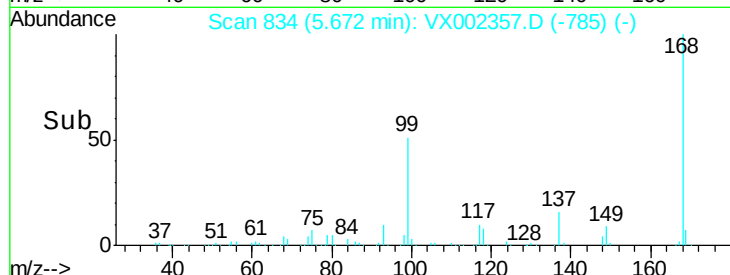
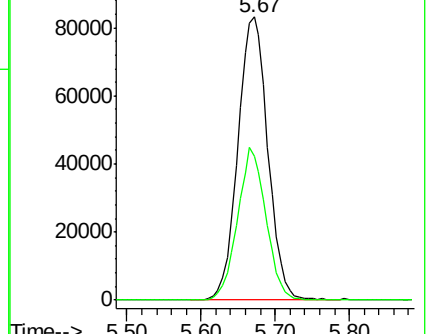
168 100

99 50.7 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: VX002357.D

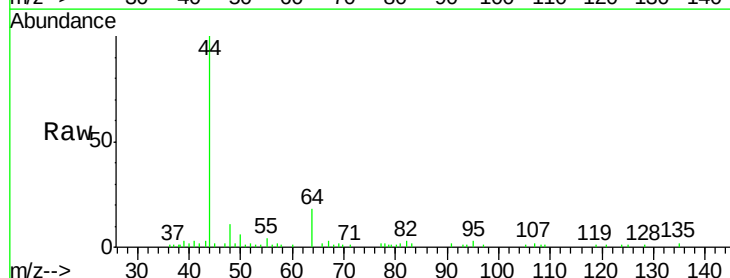
Acq: 06 Jun 2018 17:16

Tgt Ion: 50 Resp: 608

Ion Ratio Lower Upper

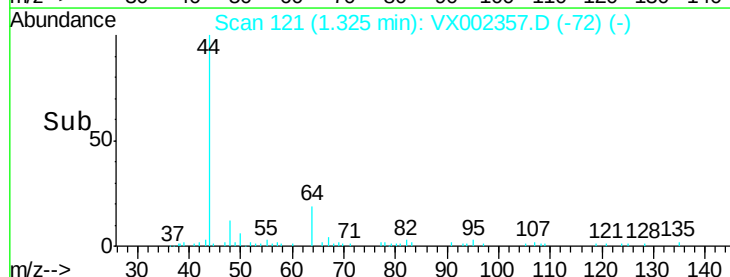
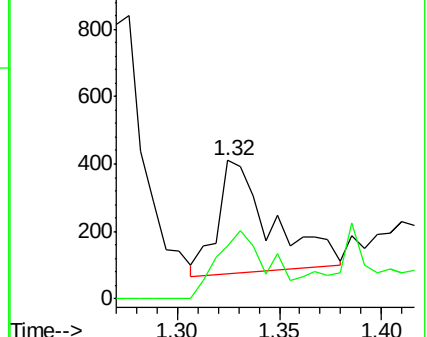
50 100

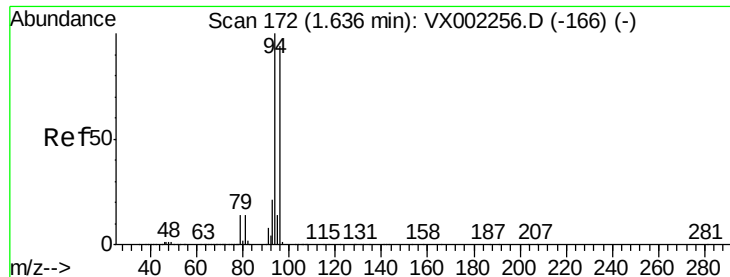
52 50.5 25.7 38.5#



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: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX002357.D

Acq: 06 Jun 2018 17:16

Instrument :

MSVOA_X

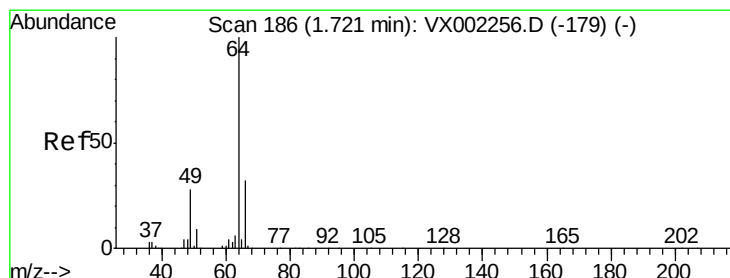
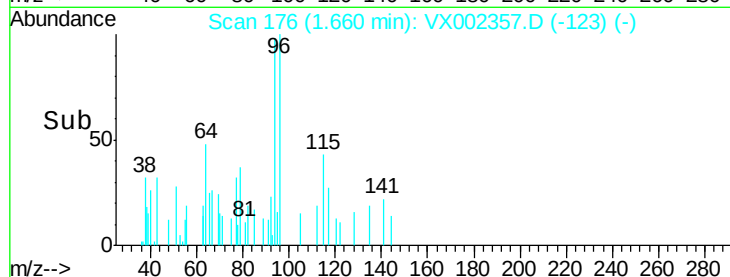
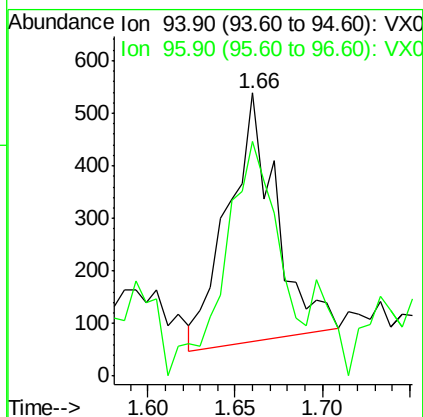
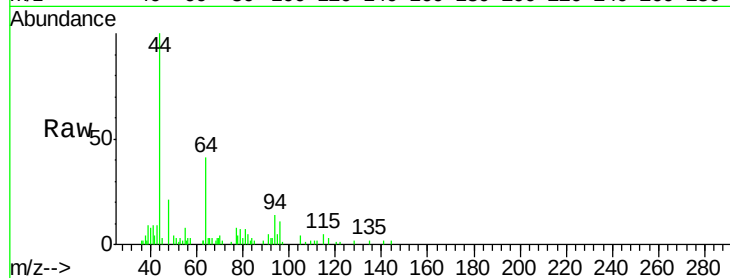
ClientSampled :

Tot Ion: 94 Resp: 902

Ion Ratio Lower Upper

94 100

96 85.9 74.9 112.3



#6

Chloroethane

Concen: 0.38 ug/l

RT: 1.65 min Scan# 175

Delta R.T. -0.07 min

Lab File: VX002357.D

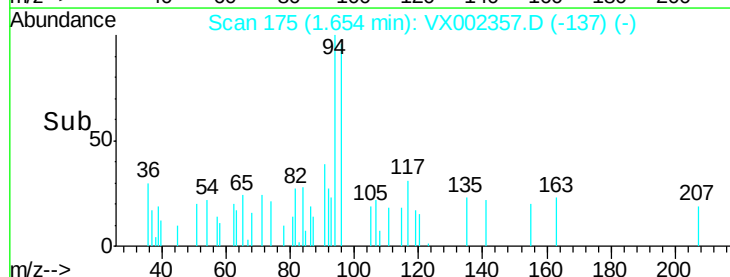
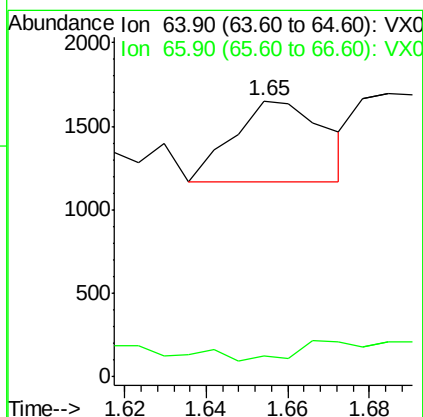
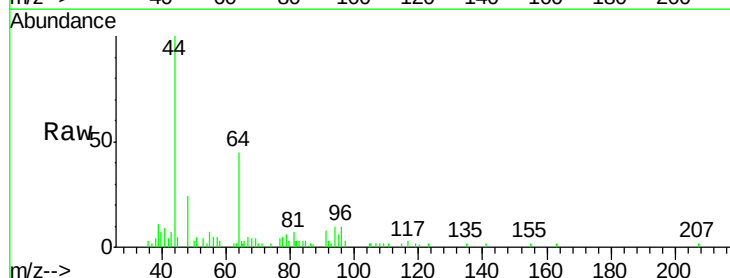
Acq: 06 Jun 2018 17:16

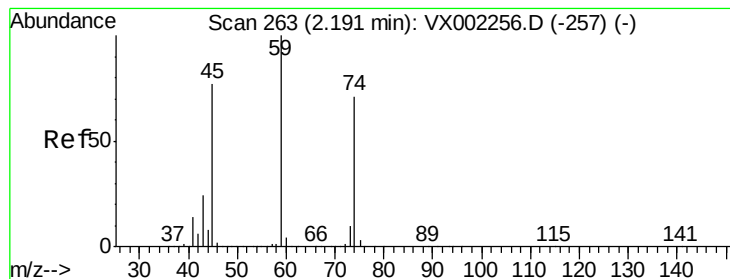
Tgt Ion: 64 Resp: 760

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#





#8

Diethyl Ether

Concen: Below Cal

RT: 2.23 min Scan# 269

Delta R.T. 0.04 min

Lab File: VX002357.D

Acq: 06 Jun 2018 17:16

Instrument :

MSVOA_X

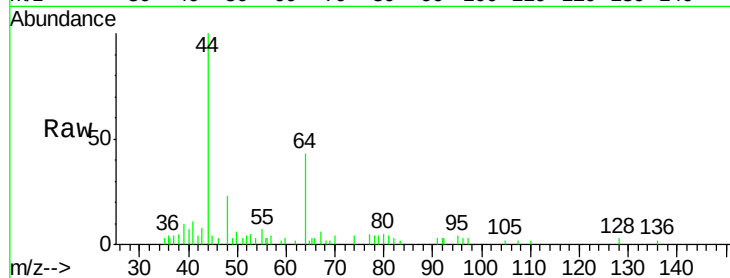
ClientSampled :

Tot Ion: 74 Resp: 71

Ion Ratio Lower Upper

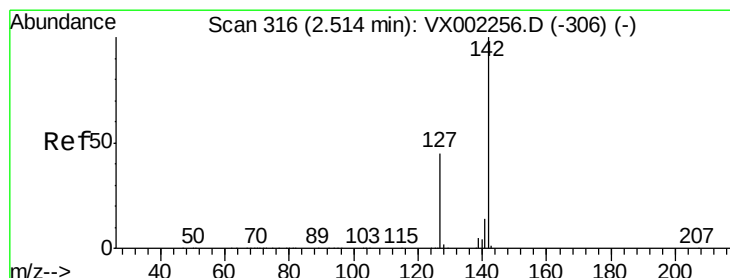
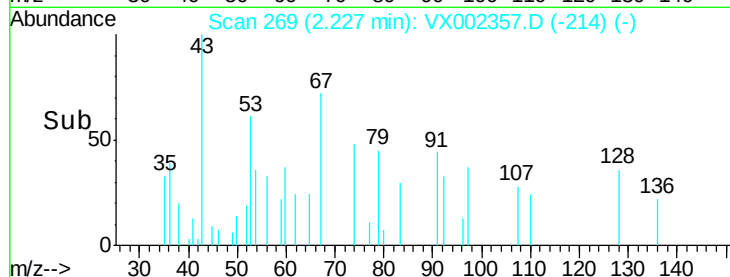
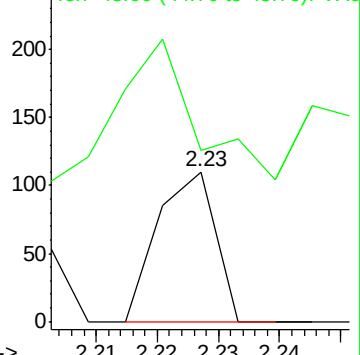
74 100

45 126.8 53.1 159.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#10

Methyl Iodide

Concen: 0.38 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002357.D

Acq: 06 Jun 2018 17:16

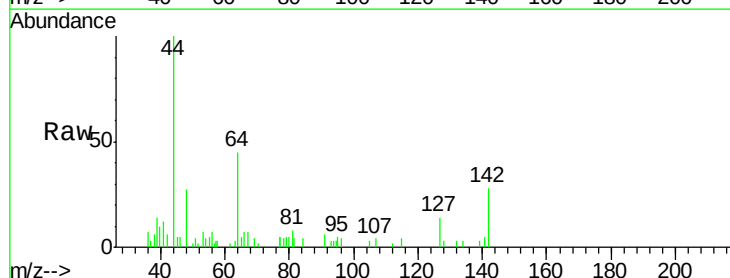
Tgt Ion: 142 Resp: 1360

Ion Ratio Lower Upper

142 100

127 57.0 36.6 55.0#

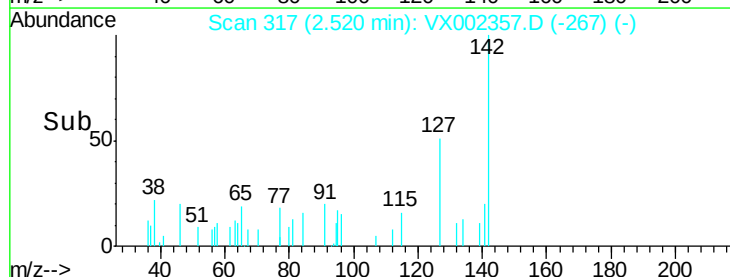
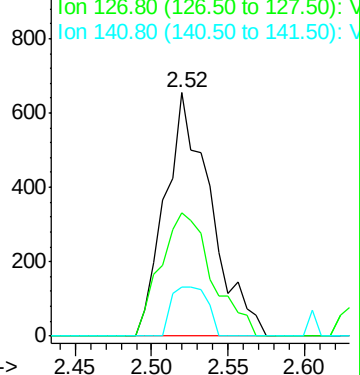
141 15.7 11.3 16.9

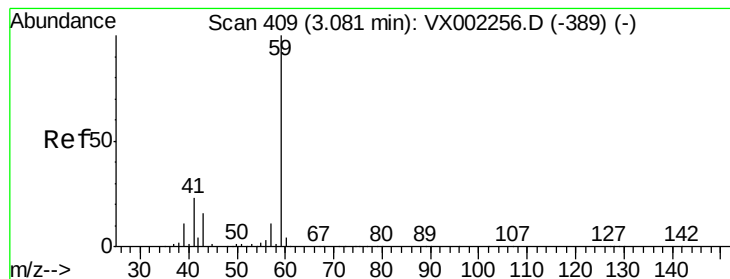


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



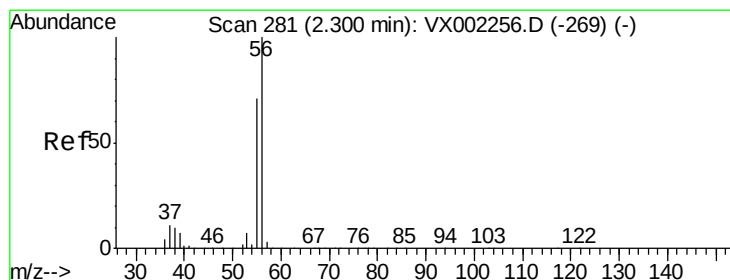
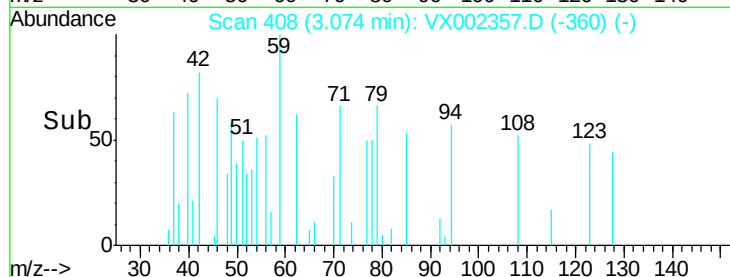
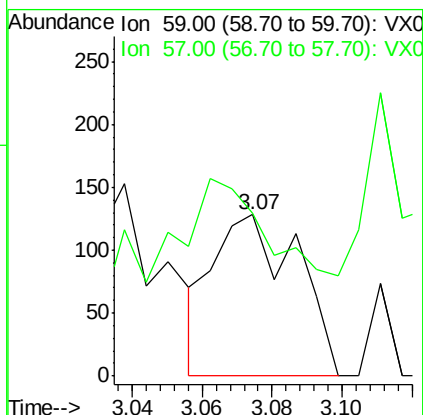
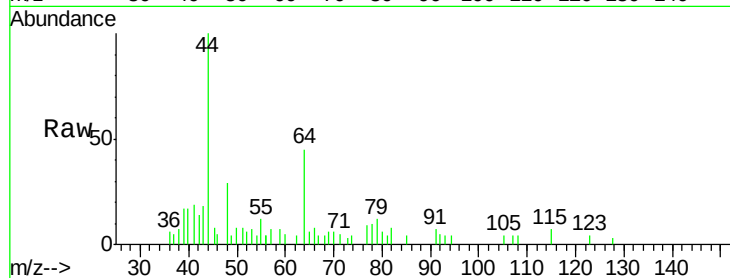


#11

Tert butyl alcohol
Concen: Below Cal
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX002357.D
Acq: 06 Jun 2018 17:16

Instrument :
MSVOA_X
ClientSampled :

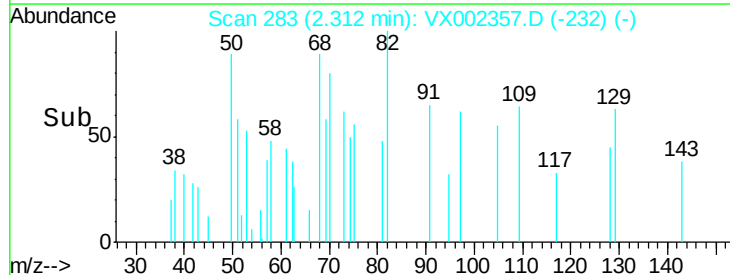
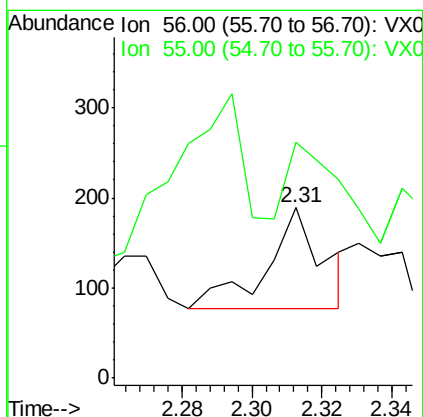
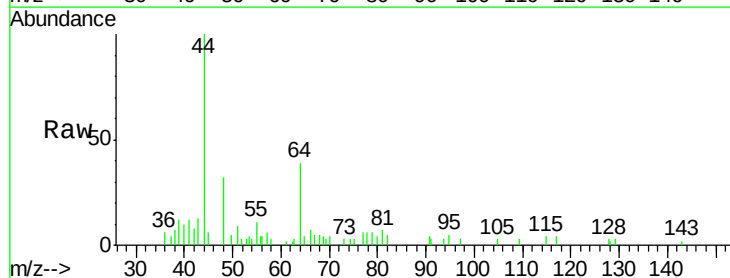
Tot Ion: 59 Resp: 214
Ion Ratio Lower Upper
59 100
57 173.8 8.2 12.2#

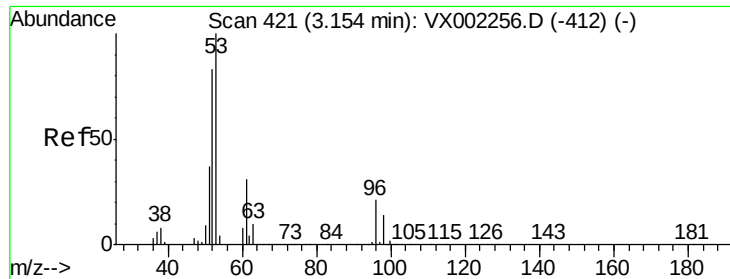


#13

Acrolein
Concen: Below Cal
RT: 2.31 min Scan# 283
Delta R.T. 0.01 min
Lab File: VX002357.D
Acq: 06 Jun 2018 17:16

Tgt Ion: 56 Resp: 126
Ion Ratio Lower Upper
56 100
55 106.3 57.0 85.4#





#15

Acrylonitrile

Concen: Below Cal

RT: 3.17 min Scan# 423

Delta R.T. 0.01 min

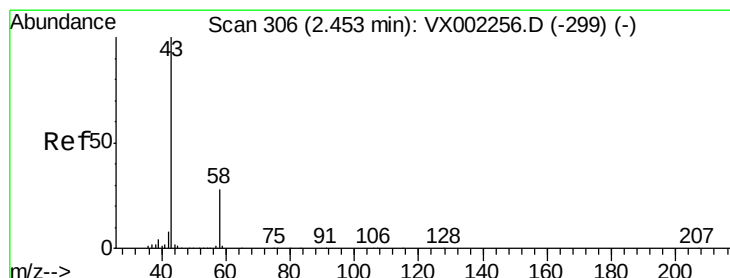
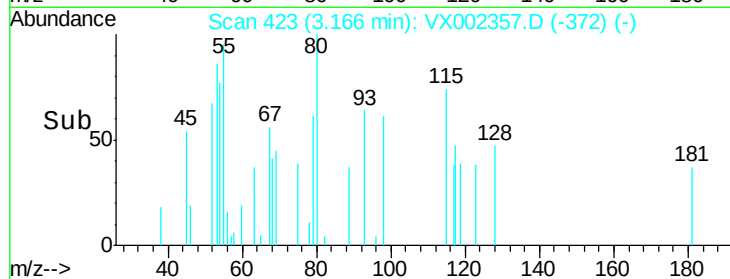
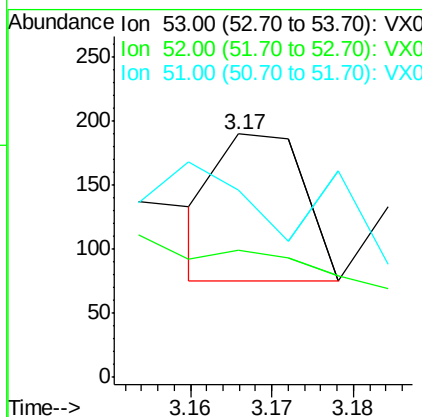
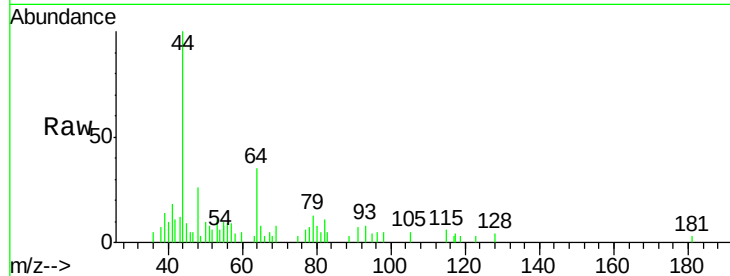
Lab File: VX002357.D

Acq: 06 Jun 2018 17:16

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 53 Resp: 83

Ion	Ratio	Lower	Upper
53	100		
52	0.0	66.7	100.1#
51	57.8	29.9	44.9#



#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

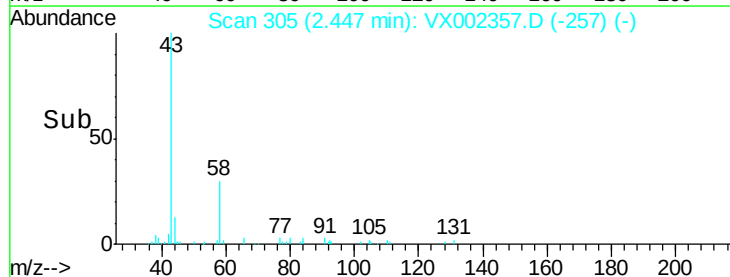
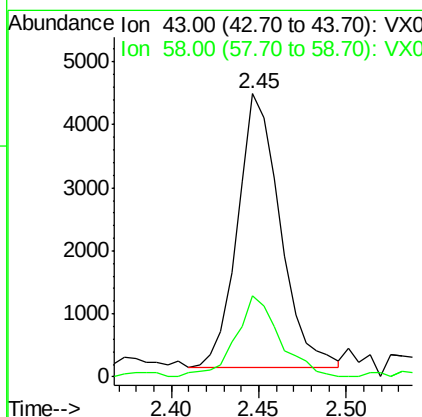
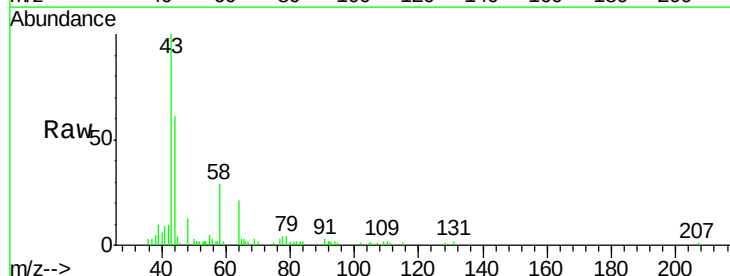
Delta R.T. -0.01 min

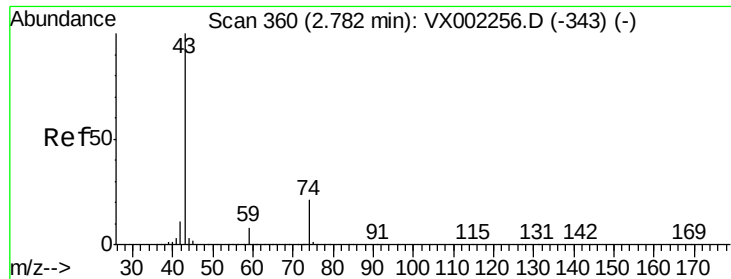
Lab File: VX002357.D

Acq: 06 Jun 2018 17:16

Tgt Ion: 43 Resp: 7315

Ion	Ratio	Lower	Upper
43	100		
58	29.7	22.1	33.1

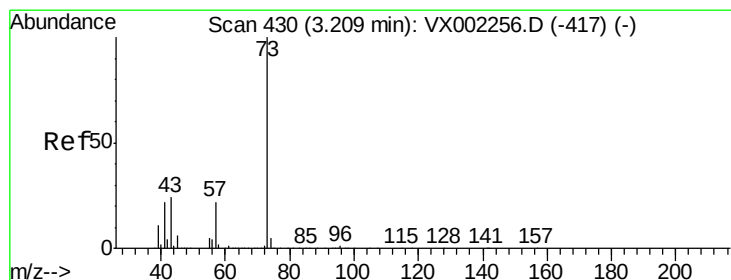
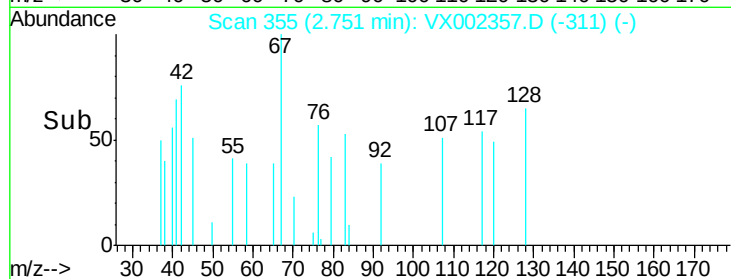
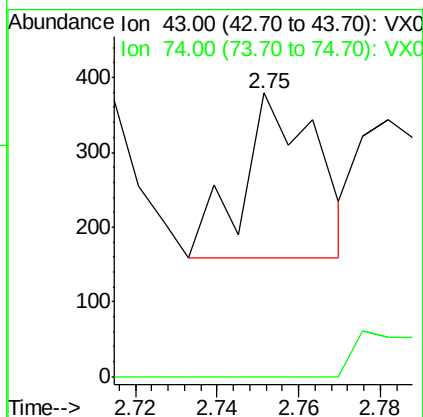
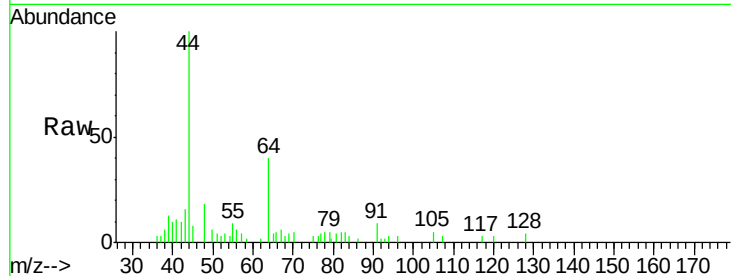




#18
Methyl Acetate
Concen: Below Cal
RT: 2.75 min Scan# 355
Delta R.T. -0.03 min
Lab File: VX002357.D
Acq: 06 Jun 2018 17:16

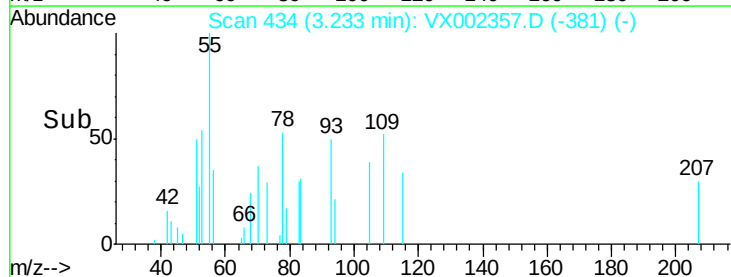
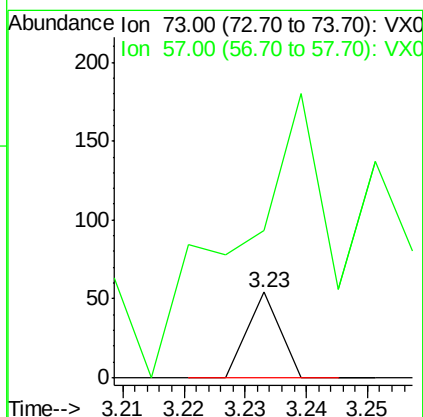
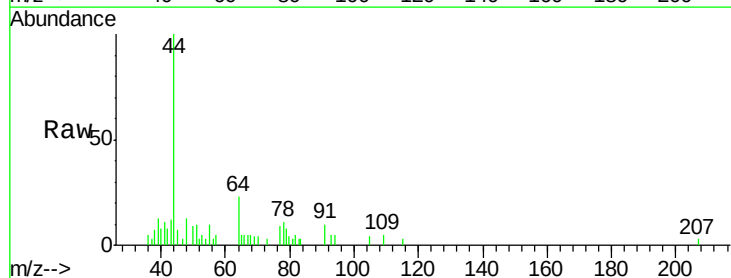
Instrument :
MSVOA_X
ClientSampled :

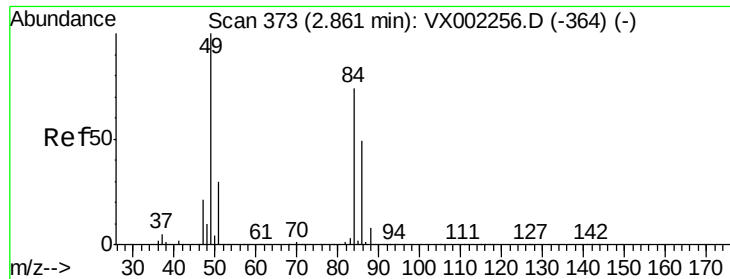
Tot Ion: 43 Resp: 278
Ion Ratio Lower Upper
43 100
74 0.0 16.7 25.1#



#19
Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.23 min Scan# 434
Delta R.T. 0.02 min
Lab File: VX002357.D
Acq: 06 Jun 2018 17:16

Tgt Ion: 73 Resp: 20
Ion Ratio Lower Upper
73 100
57 68.5 17.7 26.5#

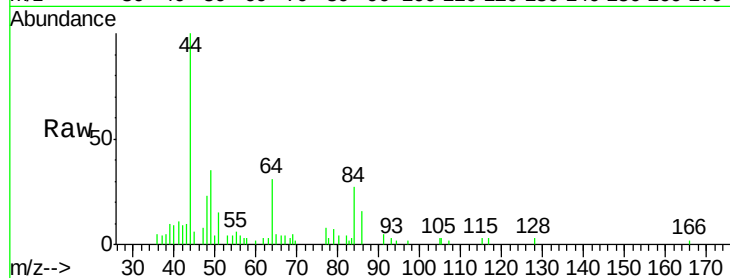




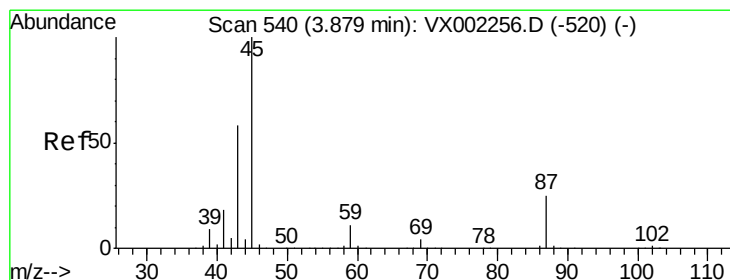
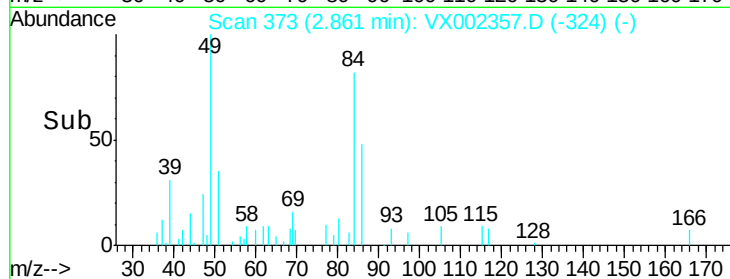
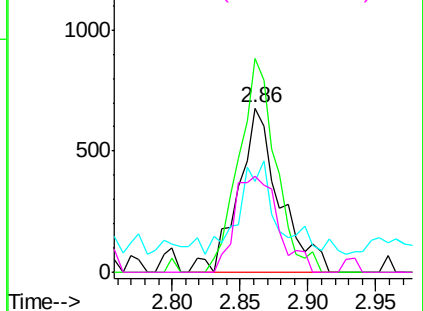
#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002357.D
Acq: 06 Jun 2018 17:16

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	84	Resp:	1431
Ion	Ratio	Lower	Upper
84	100		
49	130.1	107.8	161.6
51	42.4	32.8	49.2
86	58.6	52.5	78.7

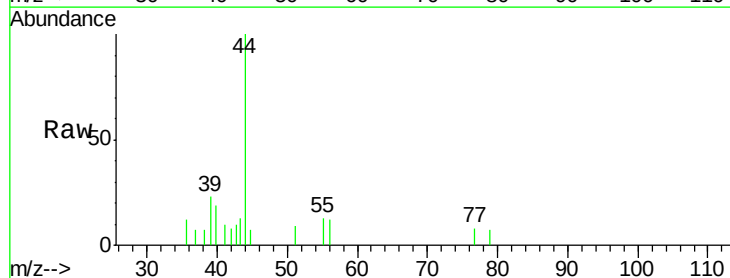


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

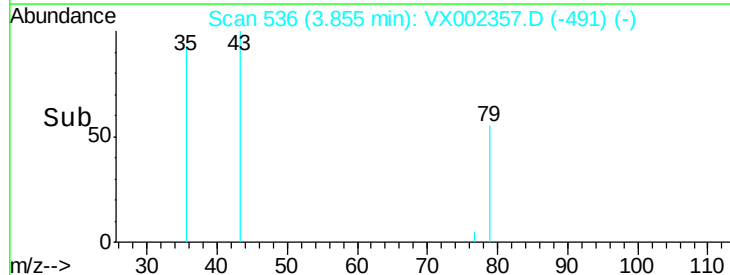
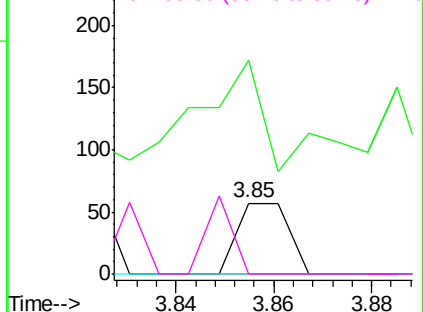


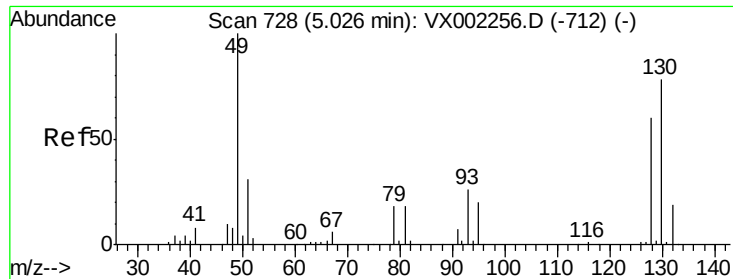
#22
Diisopropyl ether
Concen: Below Cal
RT: 3.85 min Scan# 536
Delta R.T. -0.02 min
Lab File: VX002357.D
Acq: 06 Jun 2018 17:16

Tgt Ion:	45	Resp:	42
Ion	Ratio	Lower	Upper
45	100		
43	115.8	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





#28

Bromochloromethane

Concen: Below Cal

RT: 5.07 min Scan# 735

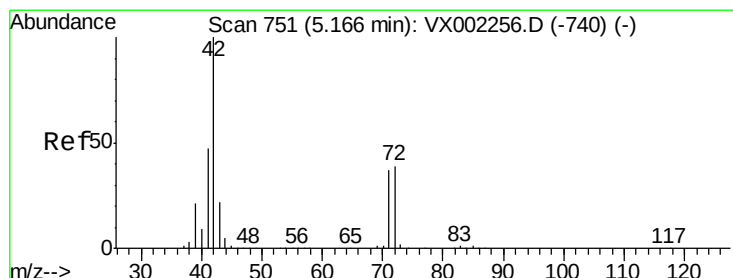
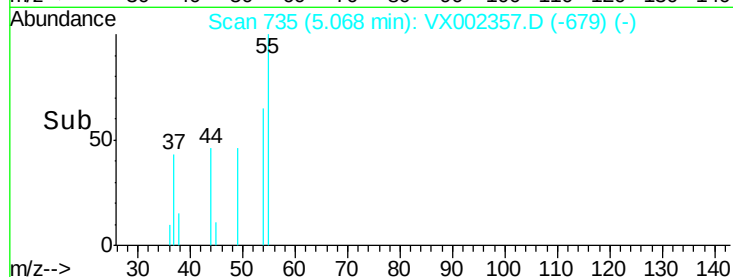
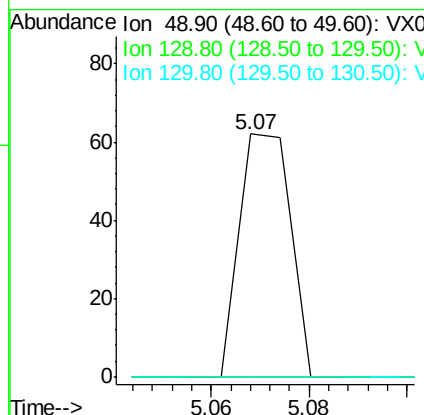
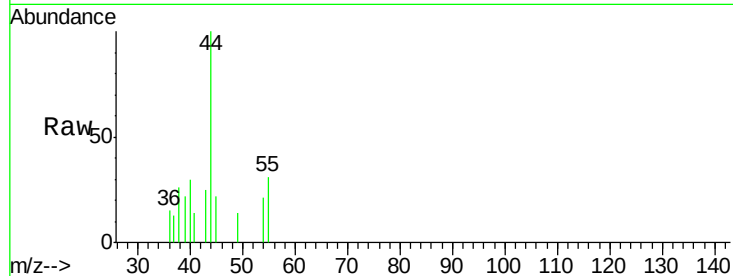
Delta R.T. 0.04 min

Lab File: VX002357.D

Acq: 06 Jun 2018 17:16

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.2
130	0.0	61.2	91.8#



#29

Tetrahydrofuran

Concen: 0.28 ug/l

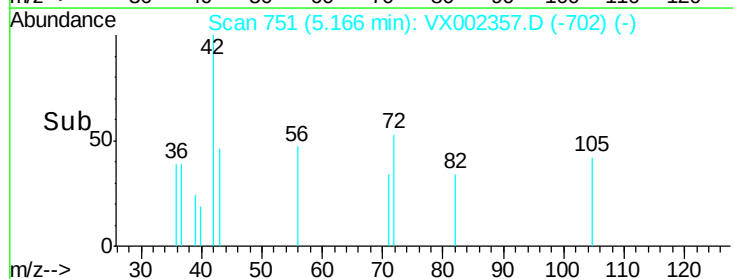
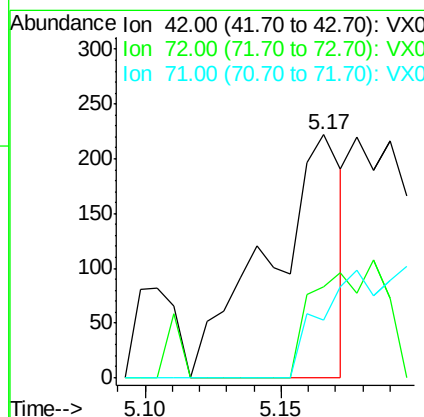
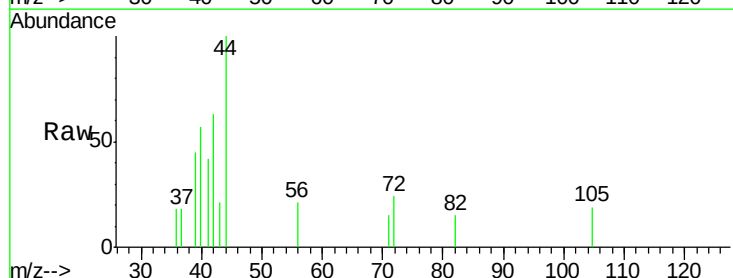
RT: 5.17 min Scan# 751

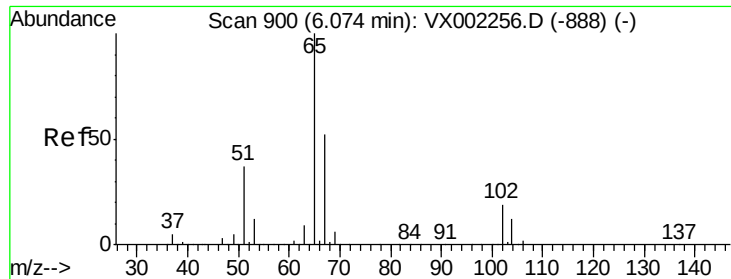
Delta R.T. -0.00 min

Lab File: VX002357.D

Acq: 06 Jun 2018 17:16

Tgt Ion	Ratio	Lower	Upper
42	100		
72	0.0	32.0	48.0#
71	0.0	30.1	45.1#

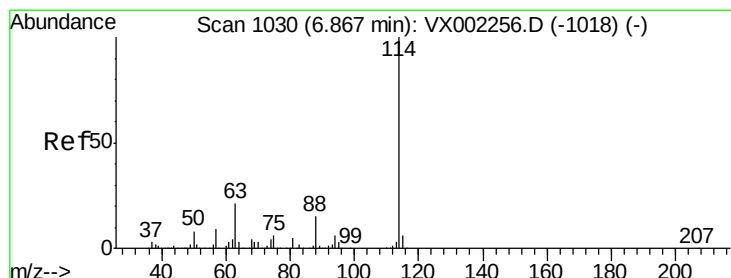
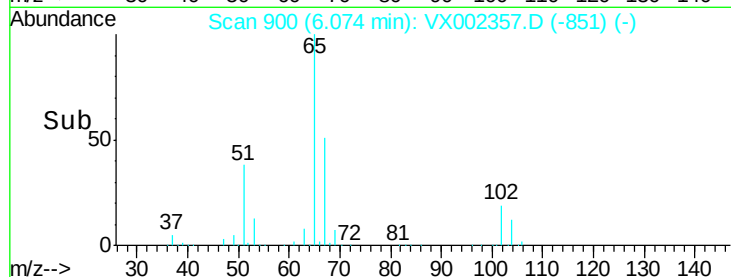
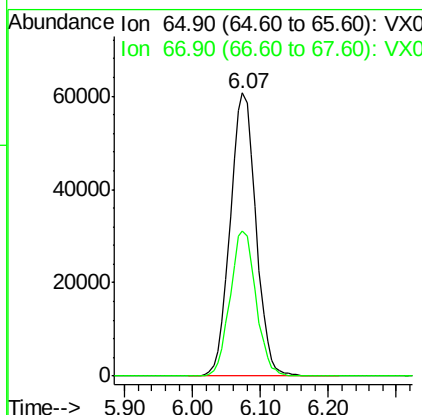
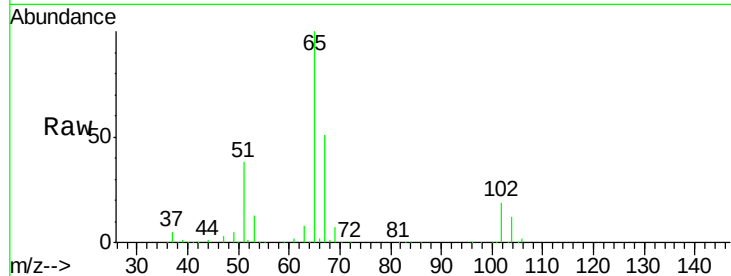




#33
 1,2-Dichloroethane-d4
 Concen: 47.35 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. -0.00 min
 Lab File: VX002357.D
 Acq: 06 Jun 2018 17:16

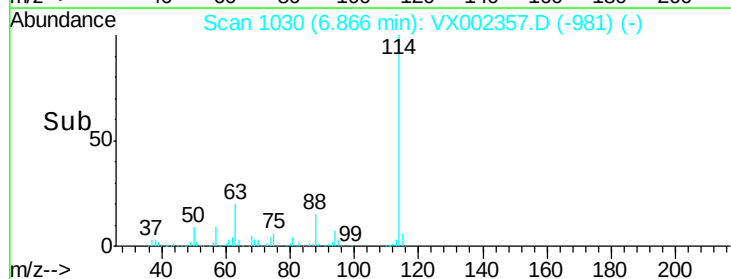
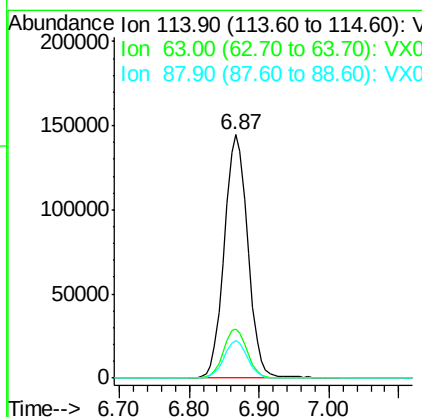
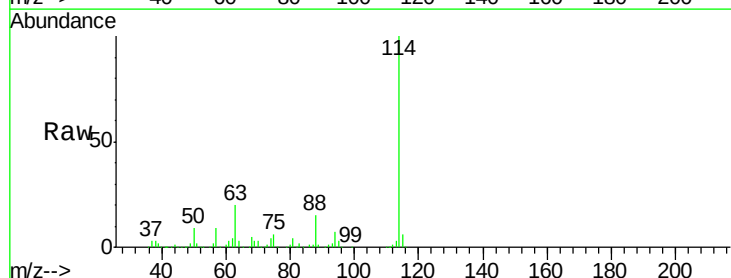
Instrument :
 MSVOA_X
 ClientSampleId :

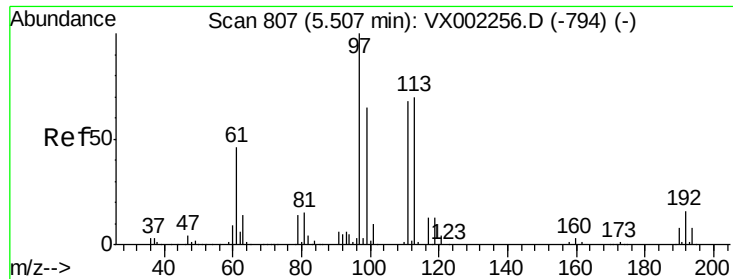
Tot Ion: 65 Resp: 159321
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002357.D
 Acq: 06 Jun 2018 17:16

Tgt Ion: 114 Resp: 338515
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 41.4
 88 15.4 0.0 30.0

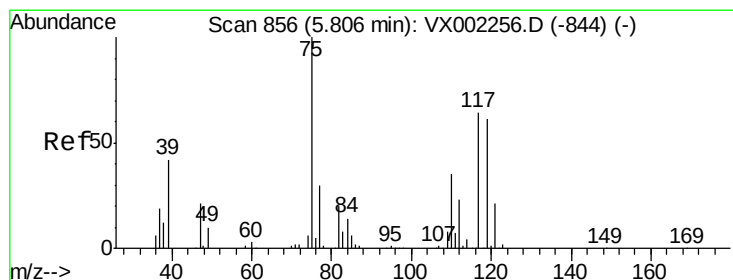
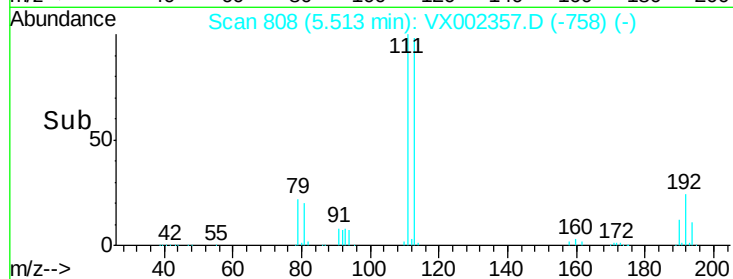
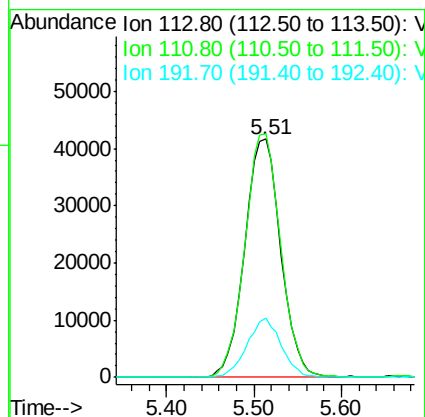
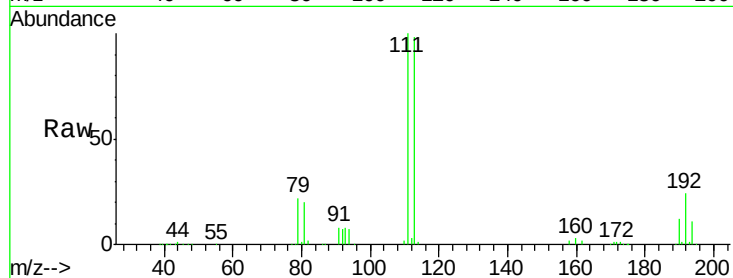




#35
 Dibromofluoromethane
 Concen: 44.80 ug/l
 RT: 5.51 min Scan# 808
 Delta R.T. 0.01 min
 Lab File: VX002357.D
 Acq: 06 Jun 2018 17:16

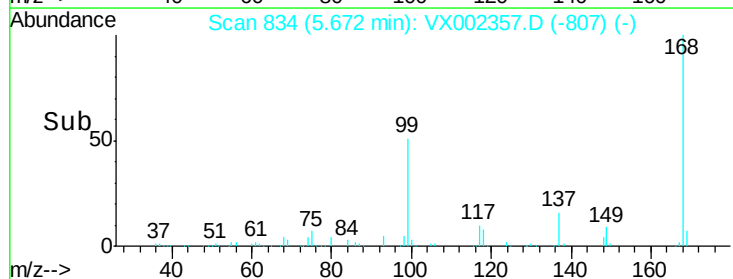
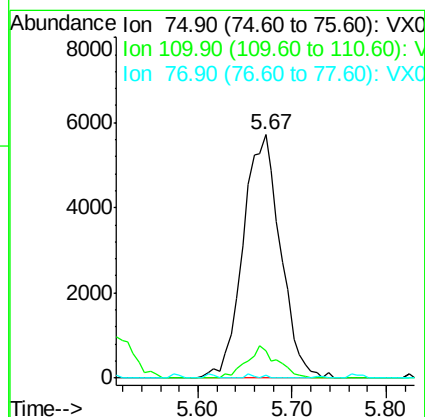
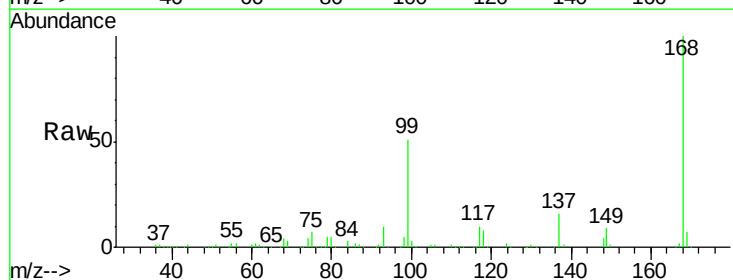
Instrument :
 MSVOA_X
 ClientSampled :

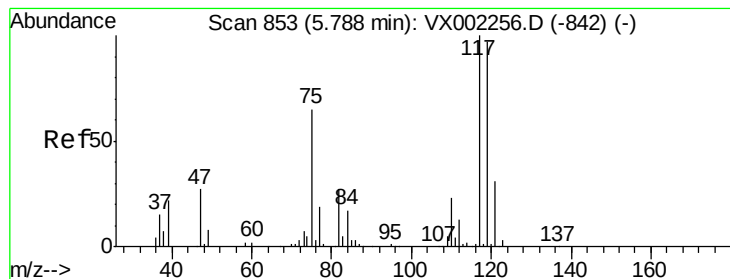
Tot Ion:113 Resp: 119262
 Ion Ratio Lower Upper
 113 100
 111 101.3 81.4 122.0
 192 23.6 19.1 28.7



#36
 1,1-Dichloropropene
 Concen: 4.47 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX002357.D
 Acq: 06 Jun 2018 17:16

Tgt Ion: 75 Resp: 15904
 Ion Ratio Lower Upper
 75 100
 110 10.8 18.1 54.4#
 77 0.5 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 5.86 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

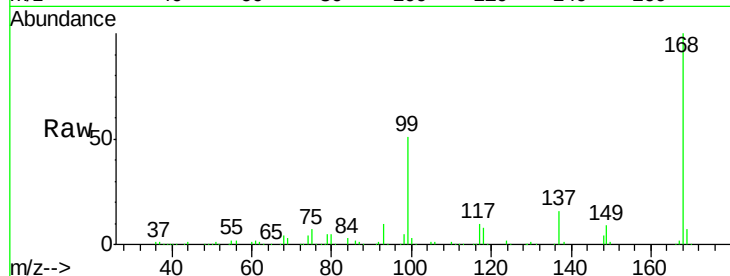
Lab File: VX002357.D

Acq: 06 Jun 2018 17:16

Instrument :

MSVOA_X

ClientSampled :



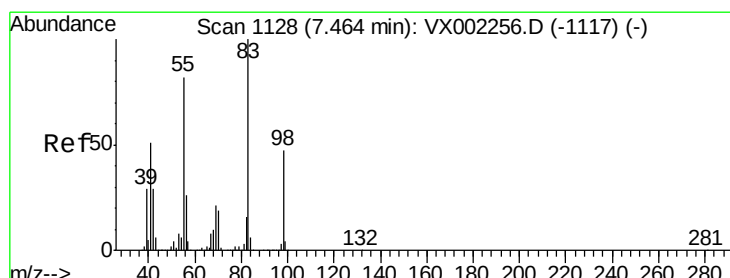
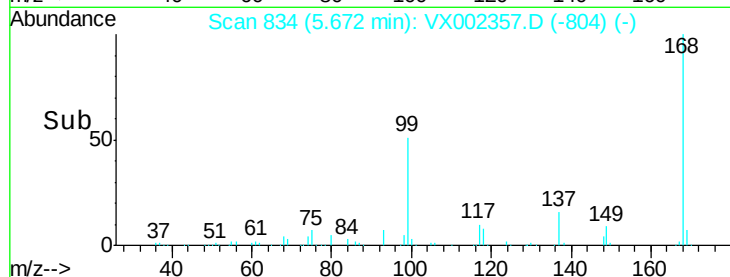
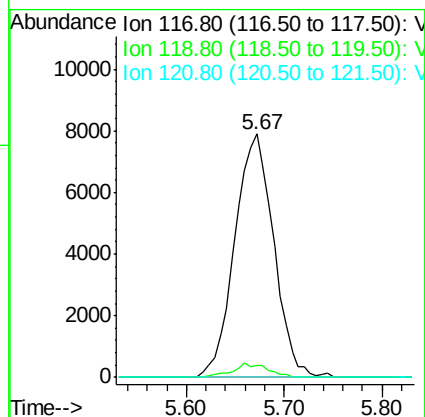
Tot Ion:117 Resp: 21807

Ion Ratio Lower Upper

117 100

119 5.1 77.4 116.0#

121 0.0 24.4 36.6#



#39

Methylcyclohexane

Concen: 0.32 ug/l

RT: 7.46 min Scan# 1128

Delta R.T. -0.00 min

Lab File: VX002357.D

Acq: 06 Jun 2018 17:16

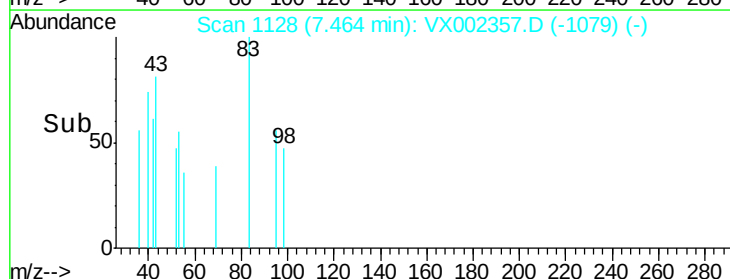
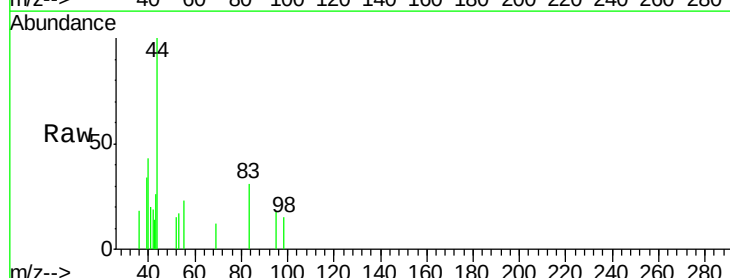
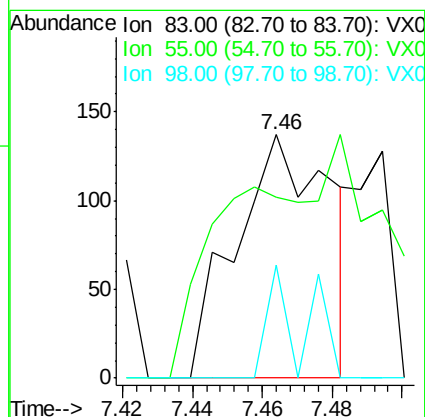
Tgt Ion: 83 Resp: 256

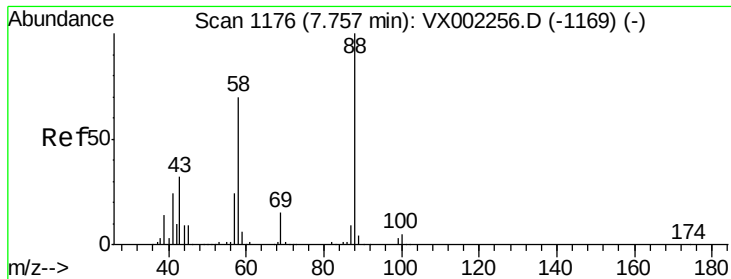
Ion Ratio Lower Upper

83 100

55 35.8 65.4 98.0#

98 46.7 37.4 56.0





#49

1,4-Dioxane

Concen: 0.31 ug/l

RT: 7.49 min Scan# 1132

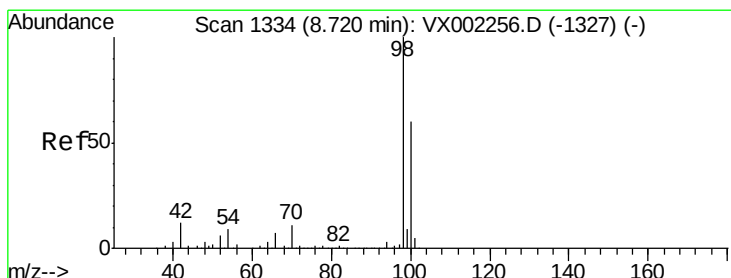
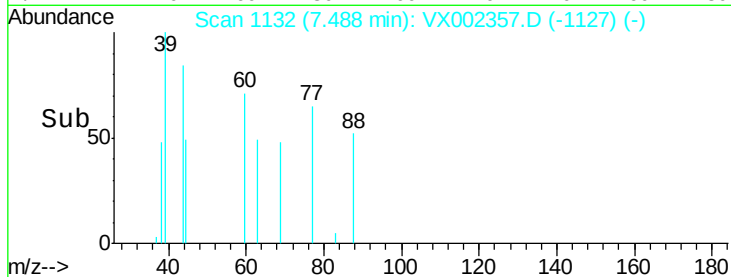
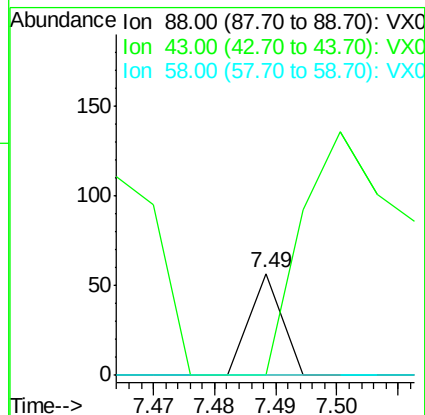
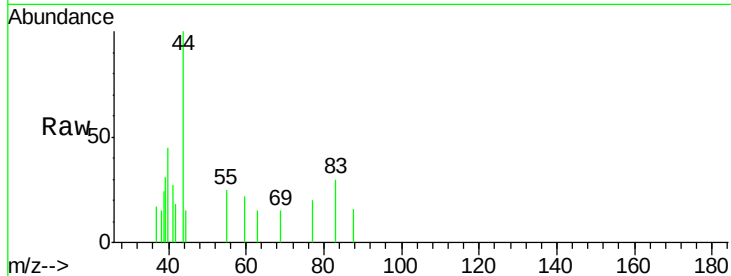
Delta R.T. -0.27 min

Lab File: VX002357.D

Acq: 06 Jun 2018 17:16

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	88	Resp	21
Ion	Ratio	Lower	Upper
88	100		
43	828.6	29.8	44.6#
58	0.0	57.1	85.7#



#50

Toluene-d8

Concen: 47.03 ug/l

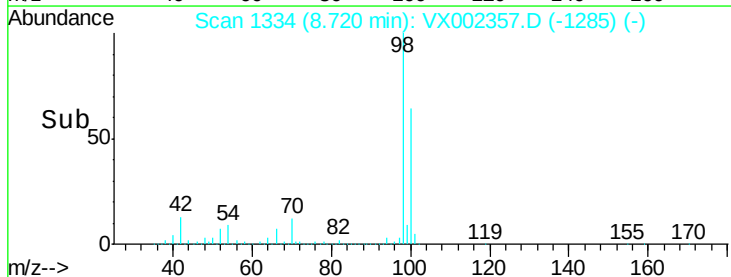
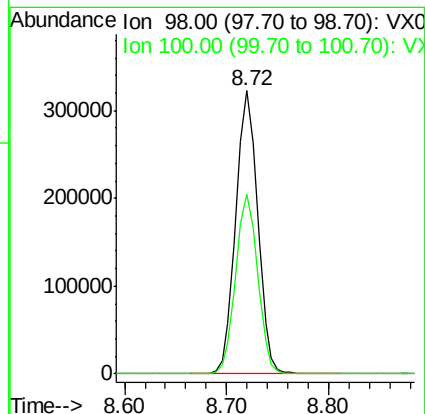
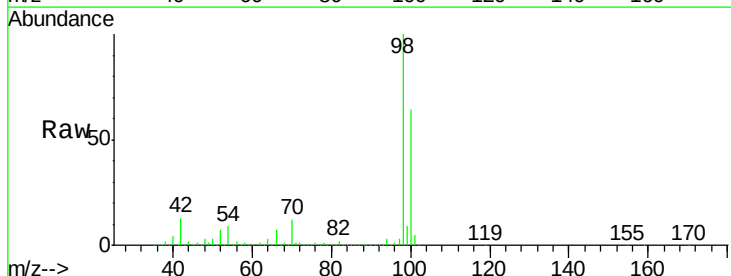
RT: 8.72 min Scan# 1334

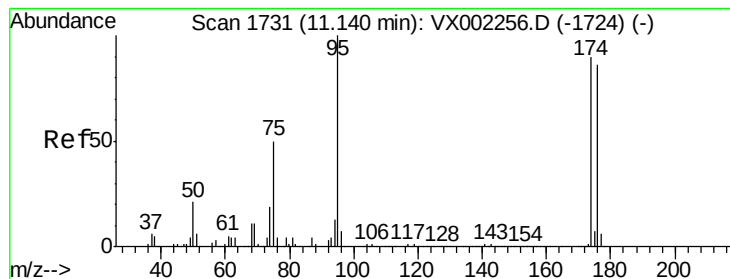
Delta R.T. -0.00 min

Lab File: VX002357.D

Acq: 06 Jun 2018 17:16

Tgt Ion	98	Resp	479882
Ion	Ratio	Lower	Upper
98	100		
100	63.4	50.9	76.3





#62

4-Bromofluorobenzene

Concen: 41.21 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002357.D

Acq: 06 Jun 2018 17:16

Instrument :

MSVOA_X

ClientSampleId :

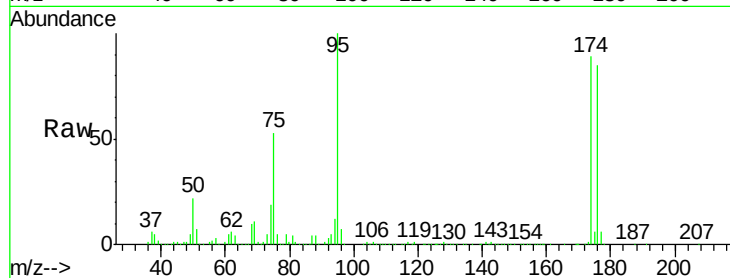
Tot Ion: 95 Resp: 162130

Ion Ratio Lower Upper

95 100

174 94.3 0.0 187.4

176 90.7 0.0 181.0

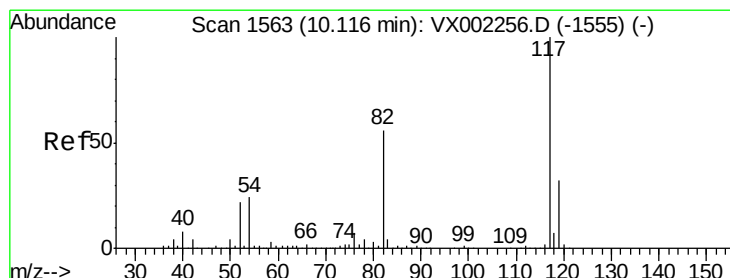
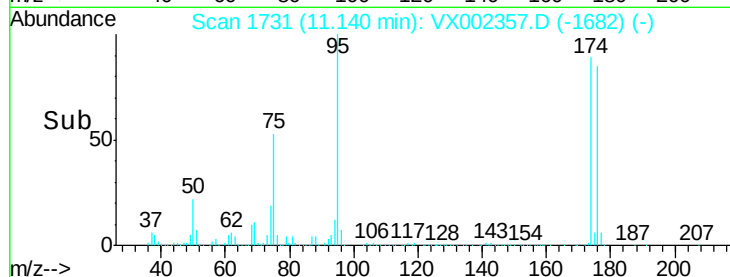


Abundance Ion 94.90 (94.60 to 95.60): VX002256.D (-1724) (-)

Ion 173.80 (173.50 to 174.50): VX002256.D (-1724) (-)

Ion 175.80 (175.50 to 176.50): VX002256.D (-1724) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX002357.D

Acq: 06 Jun 2018 17:16

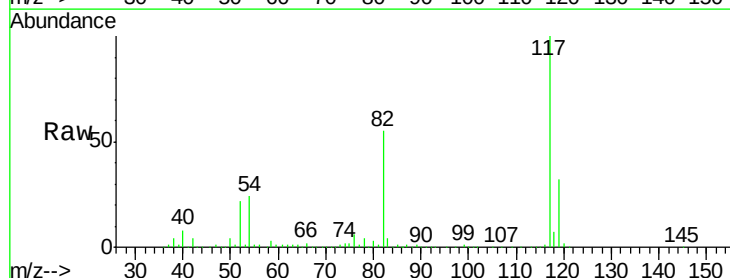
Tgt Ion: 117 Resp: 300729

Ion Ratio Lower Upper

117 100

82 55.2 45.0 67.4

119 31.8 25.8 38.6

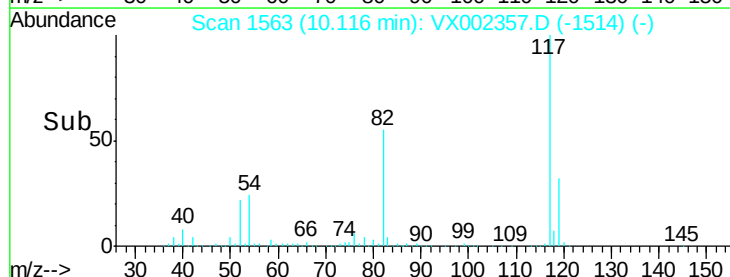


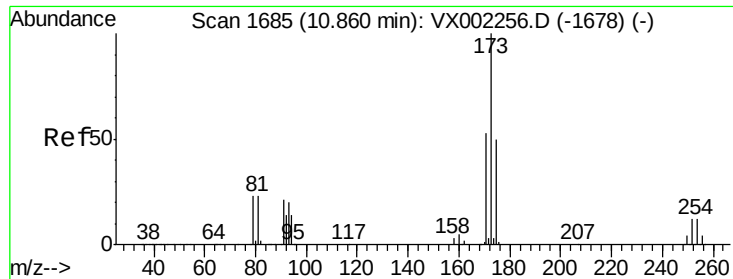
Abundance Ion 116.90 (116.60 to 117.60): VX002256.D (-1555) (-)

Ion 82.00 (81.70 to 82.70): VX002256.D (-1555) (-)

Ion 118.90 (118.60 to 119.60): VX002256.D (-1555) (-)

Time-->

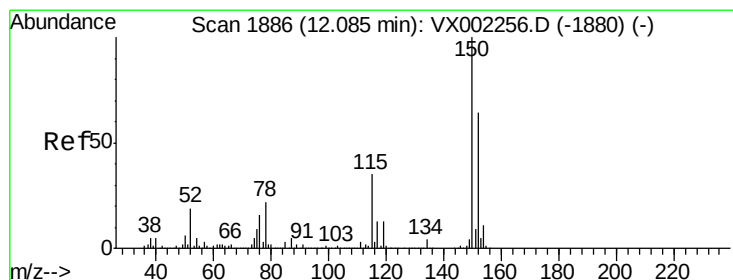
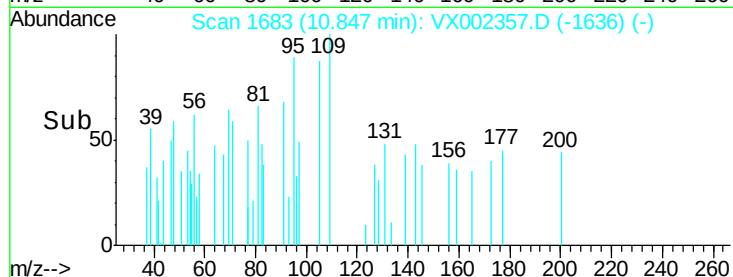
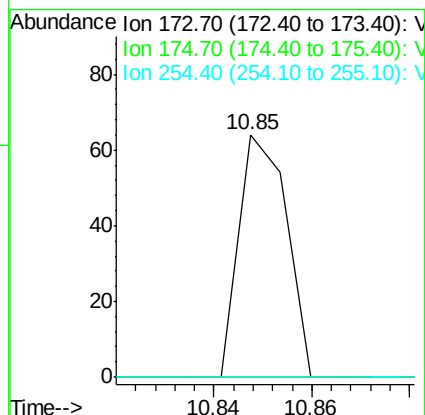
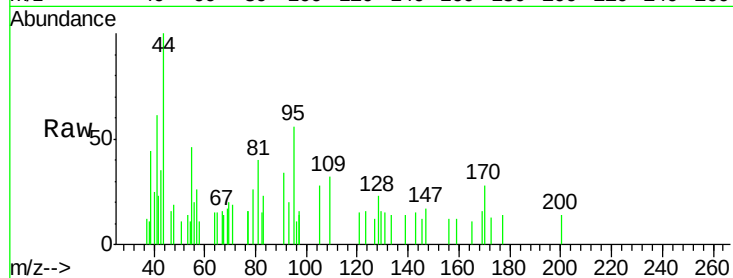




#71
Bromoform
Concen: 3.47 ug/l
RT: 10.85 min Scan# 1683
Delta R.T. -0.01 min
Lab File: VX002357.D
Acq: 06 Jun 2018 17:16

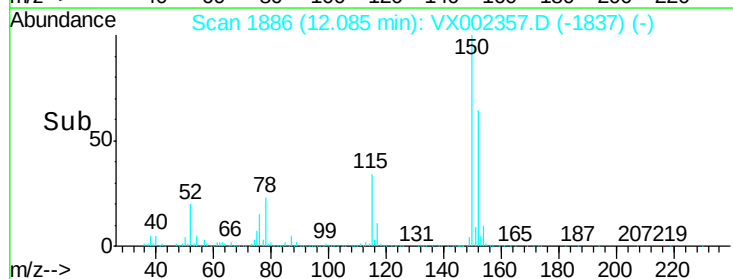
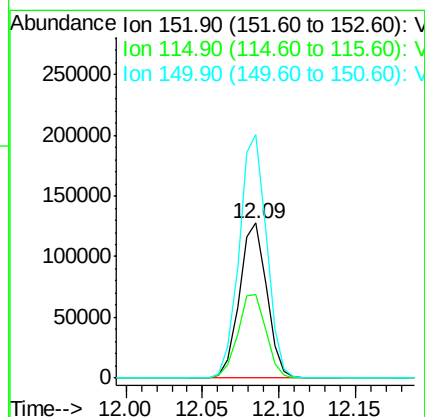
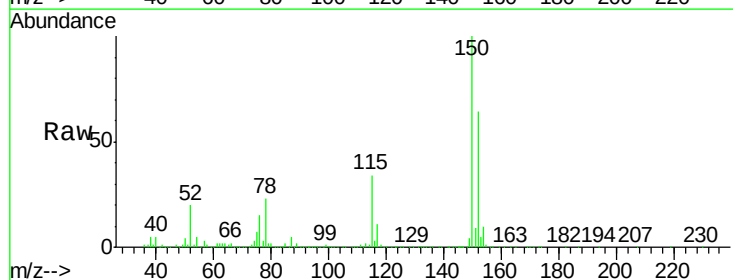
Instrument :
MSVOA_X
ClientSampleId :

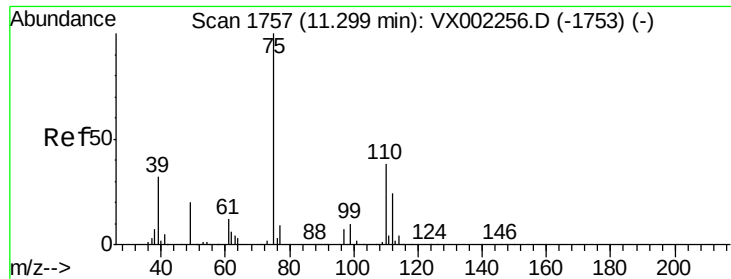
Tot Ion:173 Resp: 43
Ion Ratio Lower Upper
173 100
175 0.0 24.7 74.1#
254 0.0 0.2 0.2#



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX002357.D
Acq: 06 Jun 2018 17:16

Tgt Ion:152 Resp: 157455
Ion Ratio Lower Upper
152 100
115 55.5 40.1 120.2
150 158.0 0.0 347.2





#76

1,2,3-Trichloropropane

Concen: 25.09 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002357.D

Acq: 06 Jun 2018 17:16

Instrument :

MSVOA_X

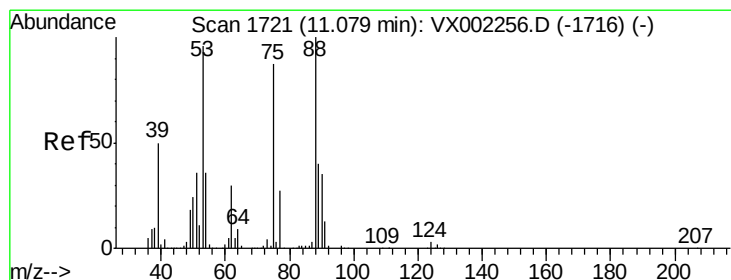
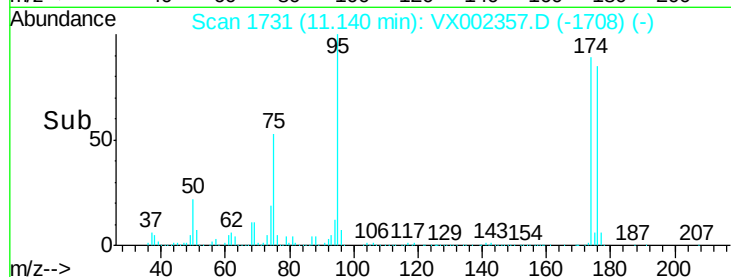
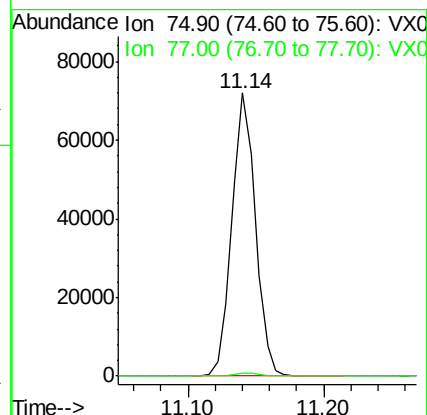
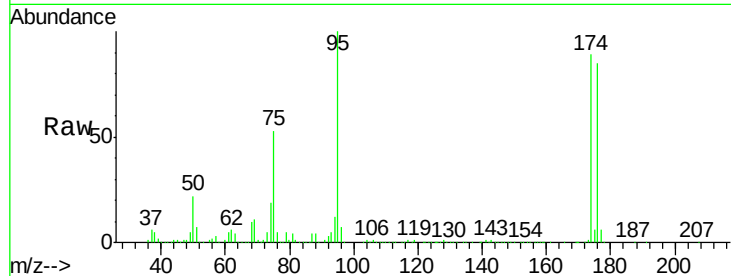
ClientSampled :

Tot Ion: 75 Resp: 86690

Ion Ratio Lower Upper

75 100

77 1.1 22.8 68.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 87.95 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002357.D

Acq: 06 Jun 2018 17:16

Tgt Ion: 75 Resp: 86690

Ion Ratio Lower Upper

75 100

53 0.0 86.8 130.2#

89 0.1 38.2 57.2#

