

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061318\
 Data File : VX002508.D
 Acq On : 13 Jun 2018 13:56
 Operator : JC/MD
 Sample : PB110148ZHE#15
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 14 01:44:41 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	197691	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	289741	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	267933	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	144355	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	143080	50.66	ug/l	0.00
Spiked Amount			Recovery	=	101.32%	
35) Dibromofluoromethane	5.51	113	104855	46.02	ug/l	0.00
Spiked Amount			Recovery	=	92.04%	
50) Toluene-d8	8.72	98	421363	48.25	ug/l	0.00
Spiked Amount			Recovery	=	96.50%	
62) 4-Bromofluorobenzene	11.14	95	141329	41.97	ug/l	0.00
Spiked Amount			Recovery	=	83.94%	

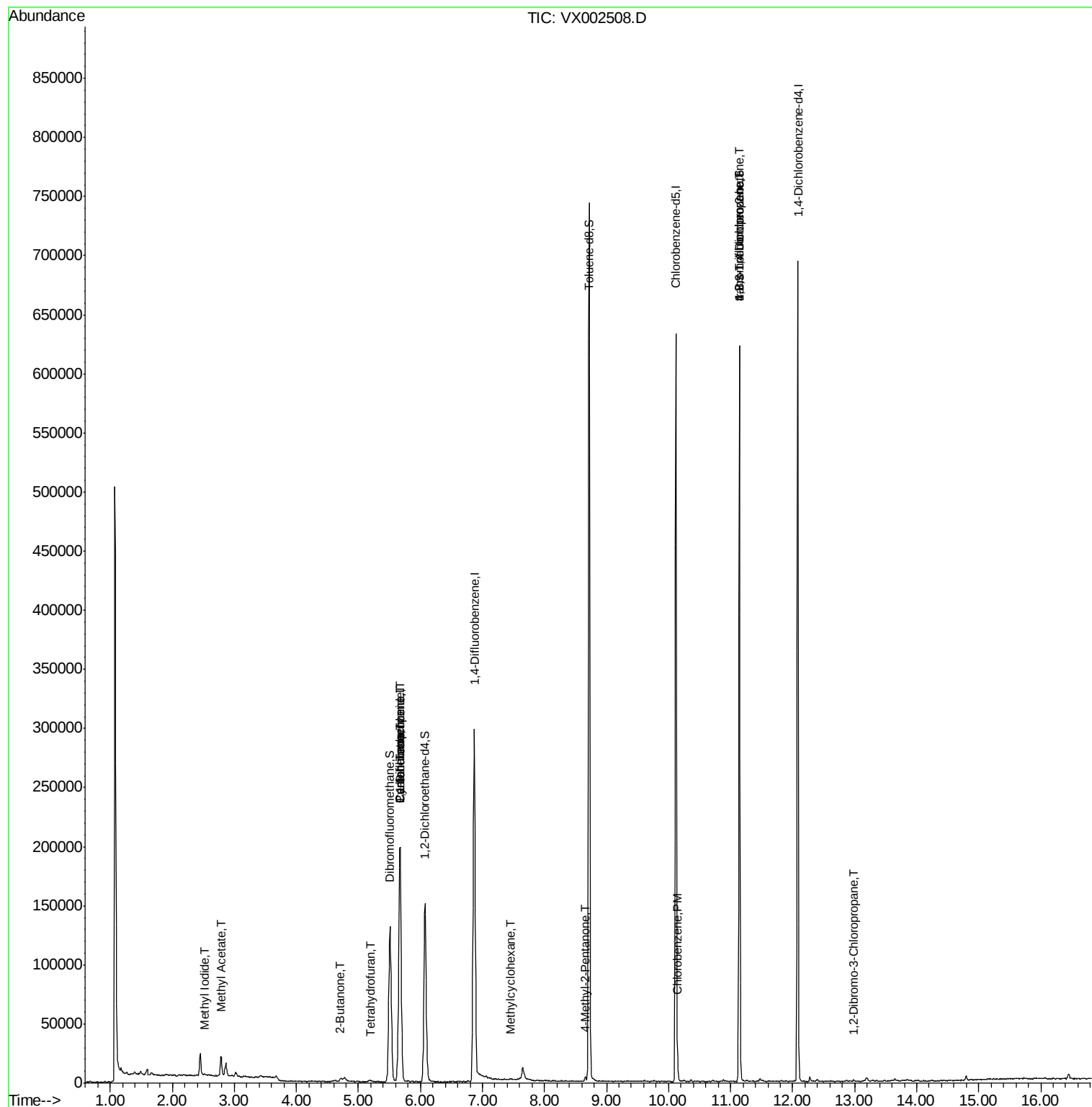
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	496	Below Cal	#	68
5) Bromomethane	1.67	94	1138	Below Cal		89
8) Diethyl Ether	2.19	74	50	Below Cal	#	1
10) Methyl Iodide	2.52	142	1604	0.54	ug/l	93
11) Tert butyl alcohol	3.03	59	1646	Below Cal	#	93
13) Acrolein	2.29	56	176	Below Cal		95
15) Acrylonitrile	3.15	53	313	Below Cal	#	74
16) Acetone	2.45	43	21345	Below Cal		99
18) Methyl Acetate	2.78	43	20194	4.68	ug/l	96
19) Methyl tert-butyl Ether	3.20	73	20	Below Cal	#	27
20) Methylene Chloride	2.86	84	5164	Below Cal		90
22) Diisopropyl ether	3.88	45	206	Below Cal	#	35
25) 2-Butanone	4.70	43	4845	2.50	ug/l	94
28) Bromochloromethane	4.95	49	23	Below Cal	#	13
29) Tetrahydrofuran	5.19	42	1469	1.18	ug/l	85
31) Cyclohexane	5.67	56	4539	1.27	ug/l	1
36) 1,1-Dichloropropene	5.67	75	14361	4.71	ug/l	51
38) Carbon Tetrachloride	5.67	117	18856	5.92	ug/l	15
39) Methylcyclohexane	7.45	83	38	0.27	ug/l	18
51) 4-Methyl-2-Pentanone	8.65	43	2170	0.56	ug/l	92
65) Chlorobenzene	10.15	112	4931	0.74	ug/l	94
76) 1,2,3-Trichloropropane	11.14	75	77218	24.38	ug/l	33
81) trans-1,4-Dichloro-2-buten	11.14	75	77218	85.45	ug/l	7
92) 1,2-Dibromo-3-Chloropropan	12.98	75	287	0.42	ug/l	1

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

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QLast Update : Tue Jun 05 03:22:35 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002508.D

Acq: 13 Jun 2018 13:56

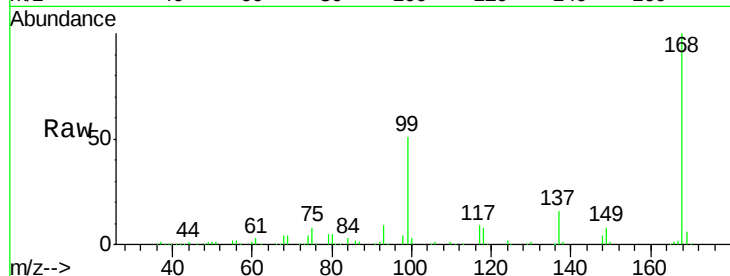
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 197691

Ion Ratio Lower Upper

168 100

99 50.9 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

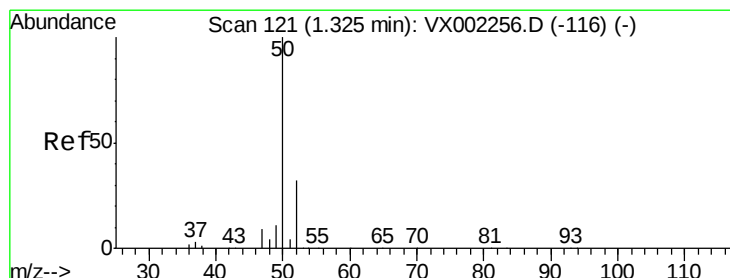
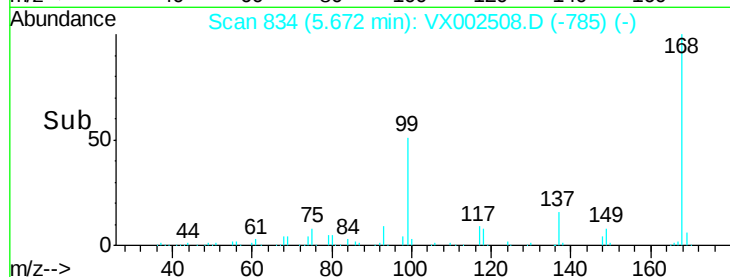
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002508.D

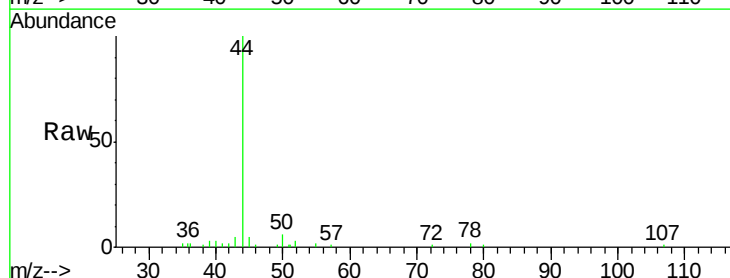
Acq: 13 Jun 2018 13:56

Tgt Ion: 50 Resp: 496

Ion Ratio Lower Upper

50 100

52 50.0 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

400

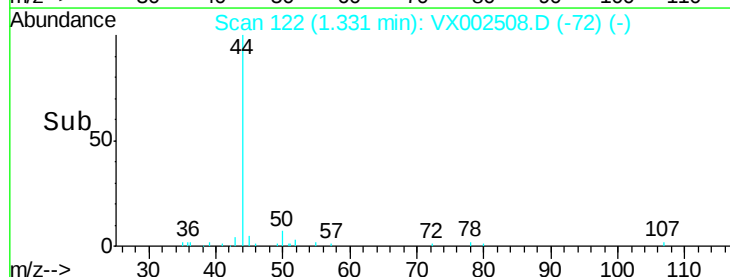
300

200

100

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.67 min Scan# 177

Delta R.T. 0.03 min

Lab File: VX002508.D

Acq: 13 Jun 2018 13:56

Instrument :

MSVOA_X

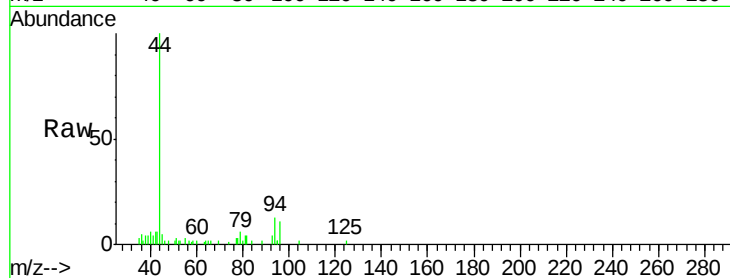
ClientSampled :

Tot Ion: 94 Resp: 1138

Ion Ratio Lower Upper

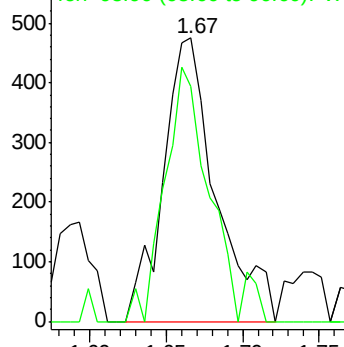
94 100

96 82.7 74.9 112.3

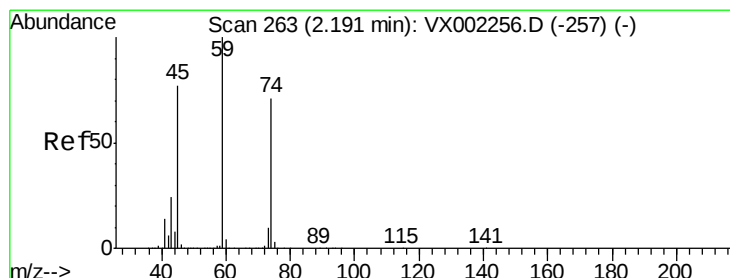
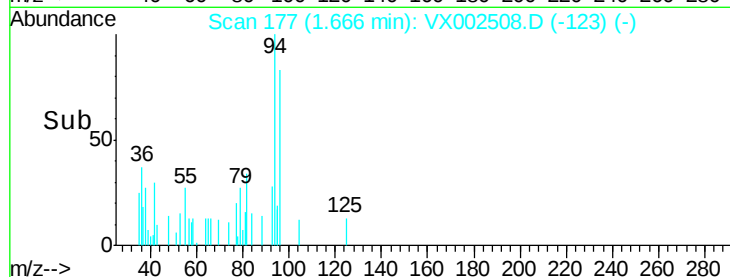


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#8

Diethyl Ether

Concen: Below Cal

RT: 2.19 min Scan# 263

Delta R.T. 0.00 min

Lab File: VX002508.D

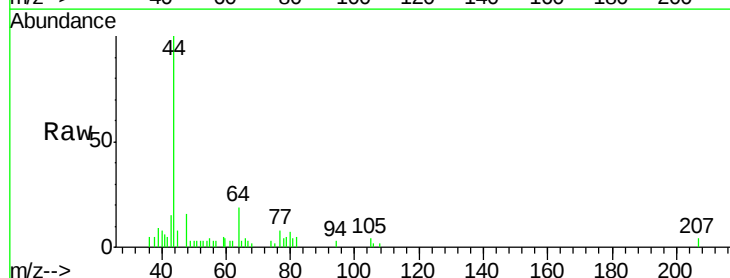
Acq: 13 Jun 2018 13:56

Tgt Ion: 74 Resp: 50

Ion Ratio Lower Upper

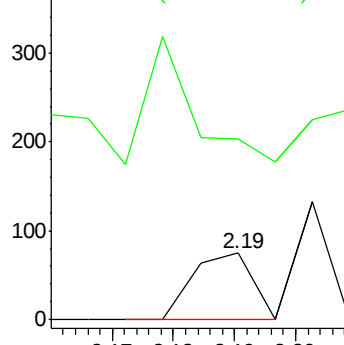
74 100

45 260.0 53.1 159.4#

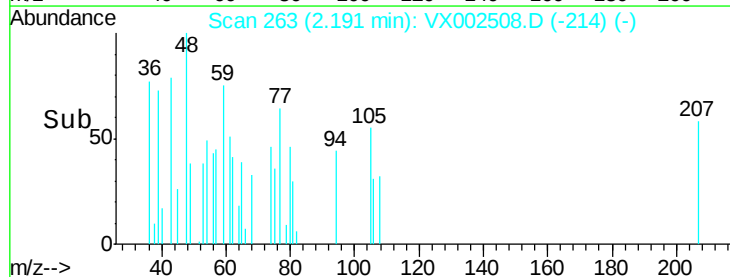


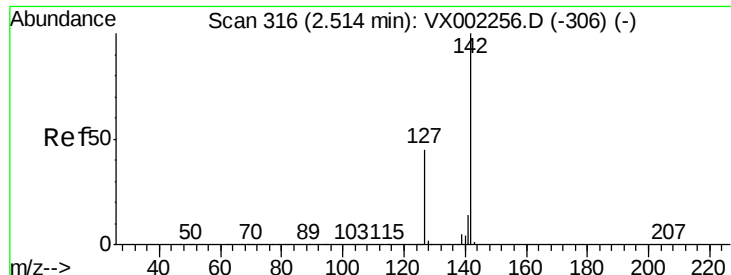
Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



Time-->

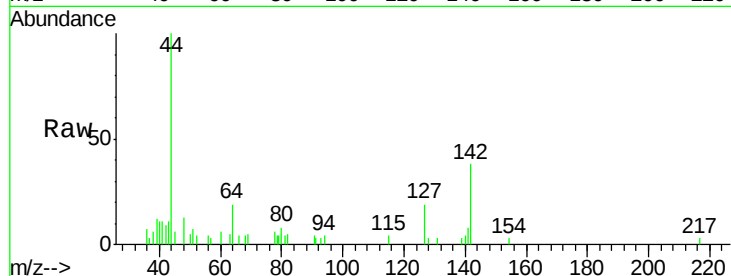




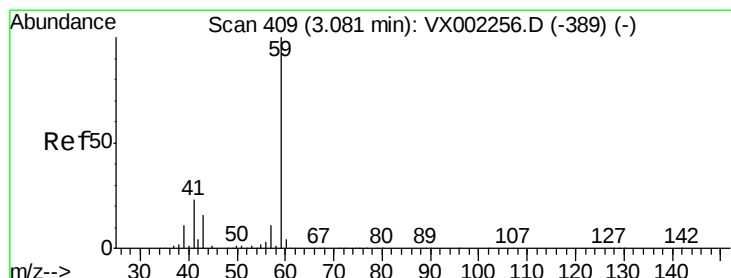
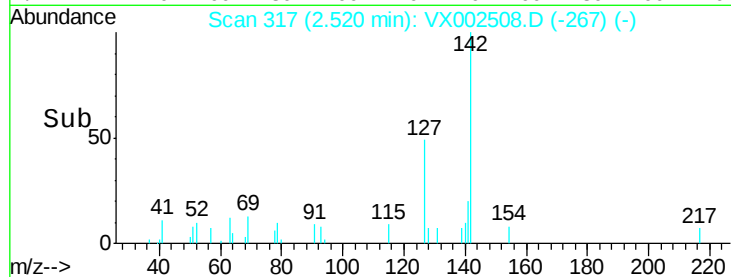
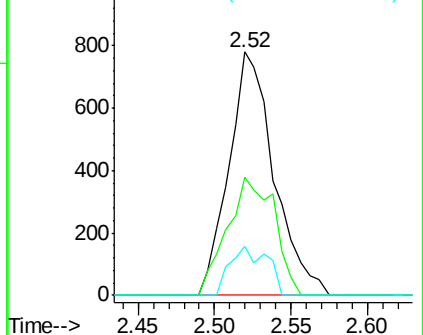
#10
Methyl Iodide
Concen: 0.54 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX002508.D
Acq: 13 Jun 2018 13:56

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:142 Resp: 1604
Ion Ratio Lower Upper
142 100
127 50.7 36.6 55.0
141 16.4 11.3 16.9

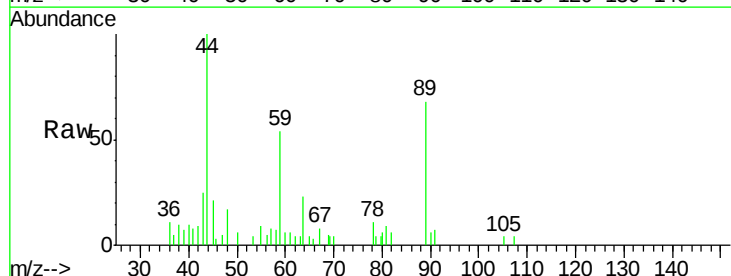


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

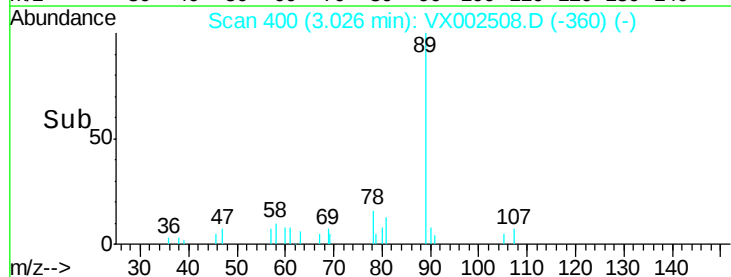
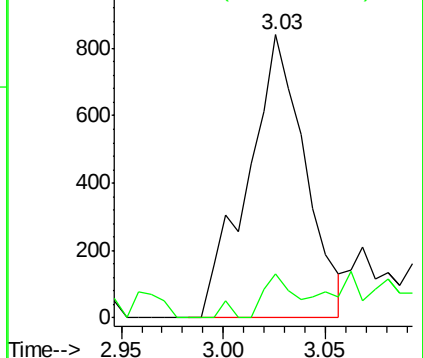


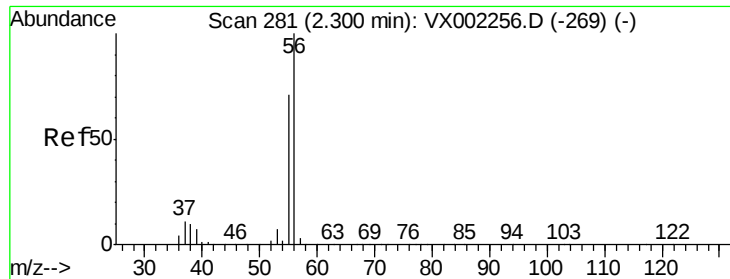
#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.03 min Scan# 400
Delta R.T. -0.05 min
Lab File: VX002508.D
Acq: 13 Jun 2018 13:56

Tgt Ion: 59 Resp: 1646
Ion Ratio Lower Upper
59 100
57 7.8 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: Below Cal

RT: 2.29 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX002508.D

Acq: 13 Jun 2018 13:56

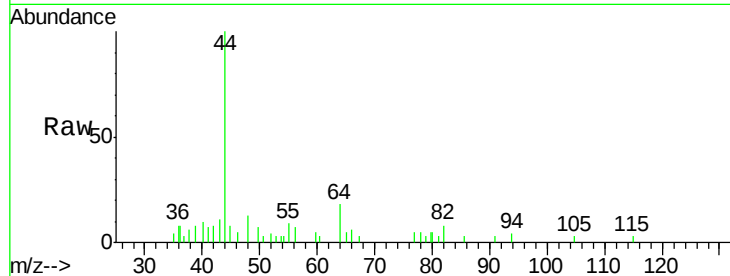
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 176

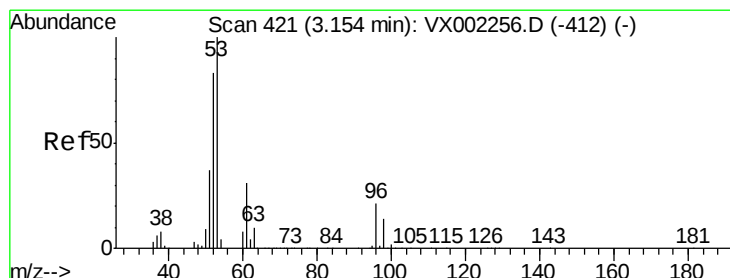
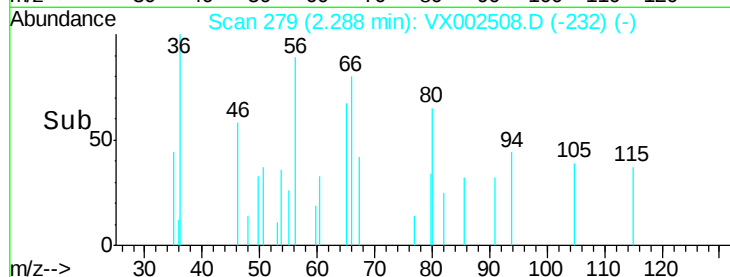
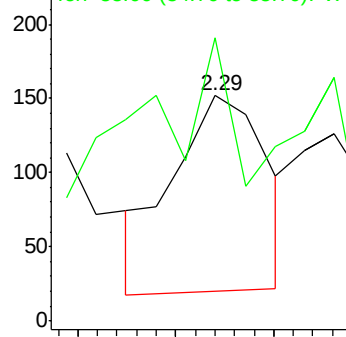
Ion Ratio Lower Upper

56 100

55 67.0 57.0 85.4



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: Below Cal

RT: 3.15 min Scan# 421

Delta R.T. 0.00 min

Lab File: VX002508.D

Acq: 13 Jun 2018 13:56

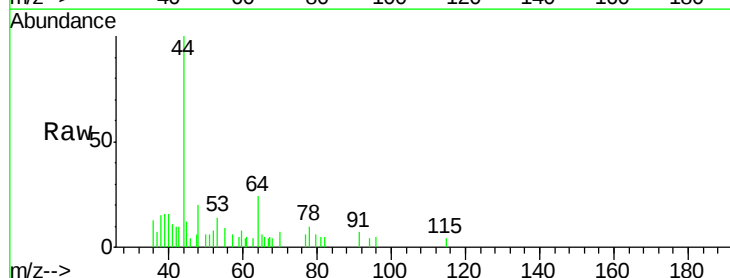
Tgt Ion: 53 Resp: 313

Ion Ratio Lower Upper

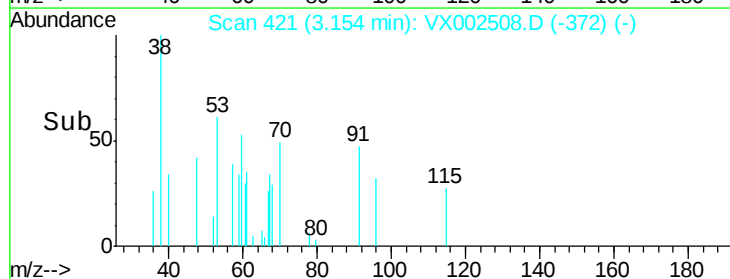
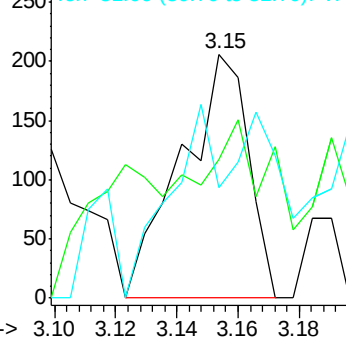
53 100

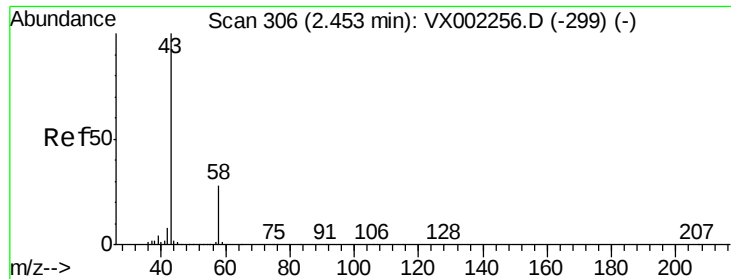
52 63.3 66.7 100.1#

51 57.8 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: VX002508.D

Acq: 13 Jun 2018 13:56

Instrument :

MSVOA_X

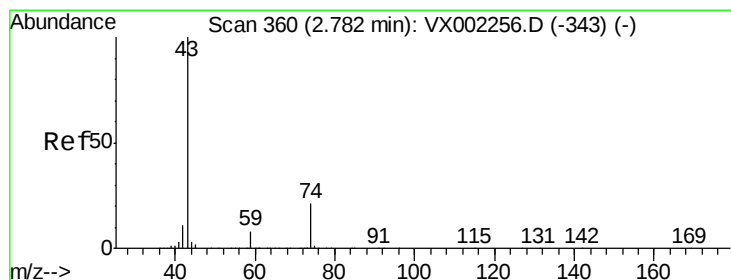
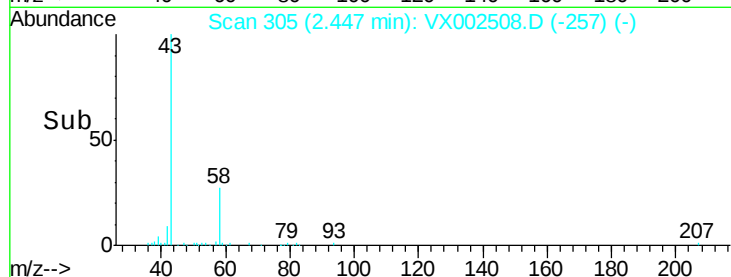
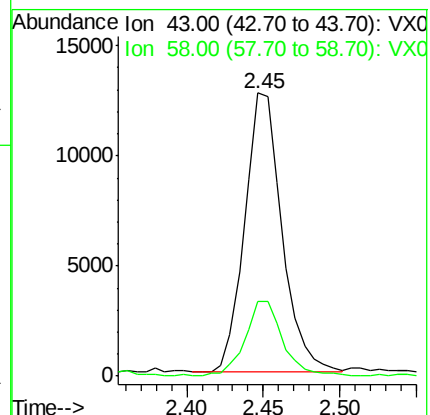
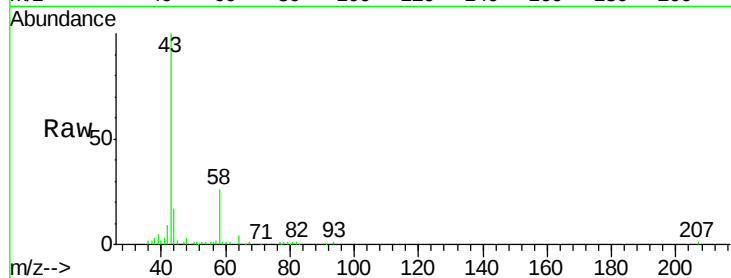
ClientSampleId :

Tot Ion: 43 Resp: 21345

Ion Ratio Lower Upper

43 100

58 26.9 22.1 33.1



#18

Methyl Acetate

Concen: 4.68 ug/l

RT: 2.78 min Scan# 360

Delta R.T. -0.00 min

Lab File: VX002508.D

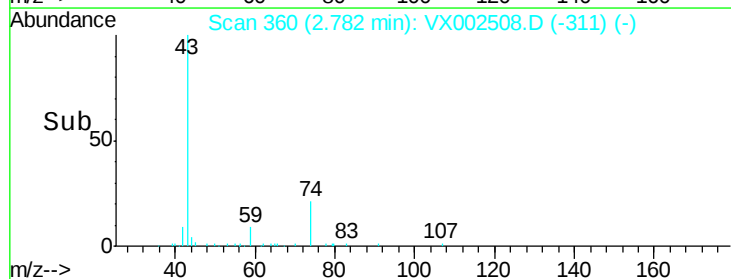
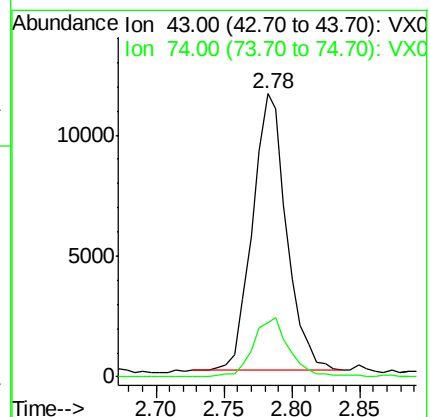
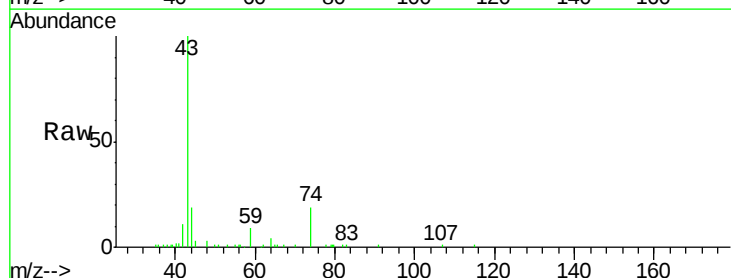
Acq: 13 Jun 2018 13:56

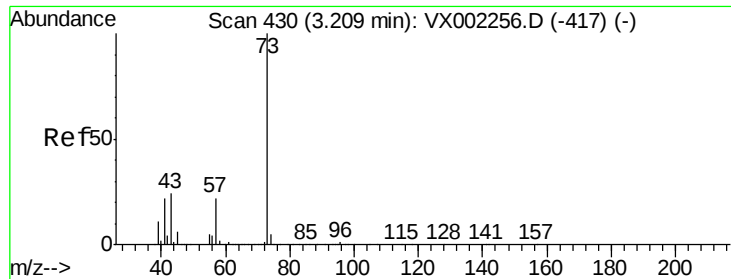
Tgt Ion: 43 Resp: 20194

Ion Ratio Lower Upper

43 100

74 22.6 16.7 25.1

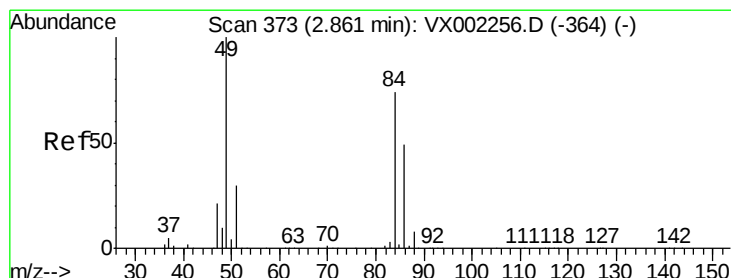
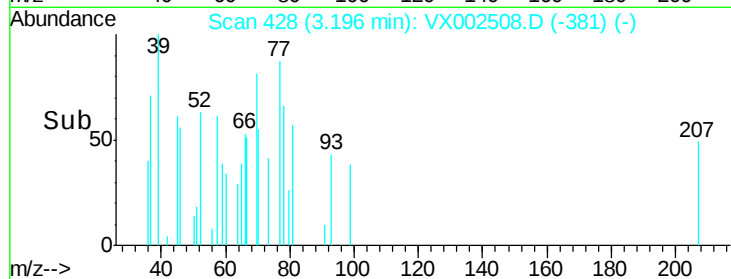
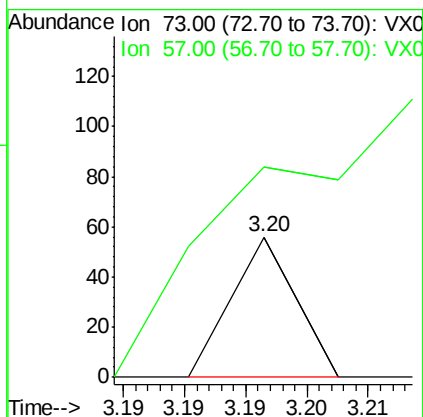
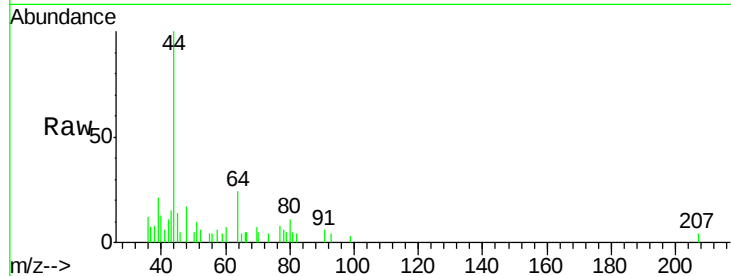




#19
Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.20 min Scan# 428
Delta R.T. -0.01 min
Lab File: VX002508.D
Acq: 13 Jun 2018 13:56

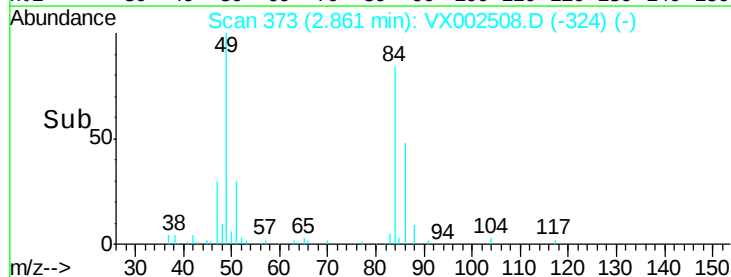
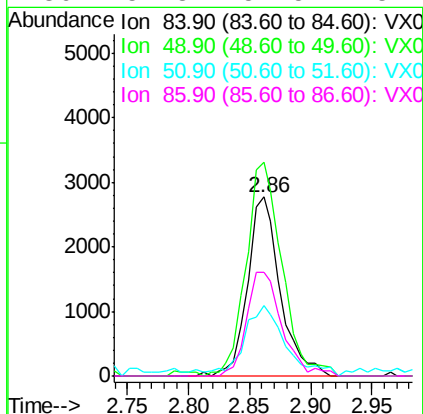
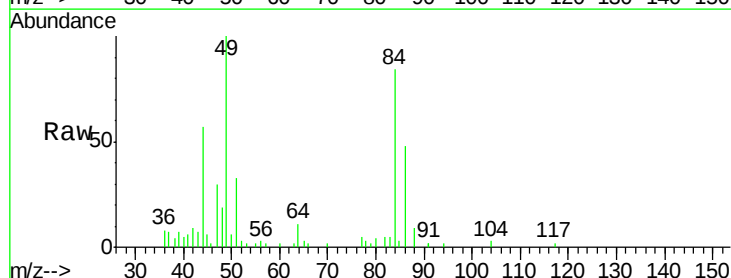
Instrument :
MSVOA_X
ClientSampled :

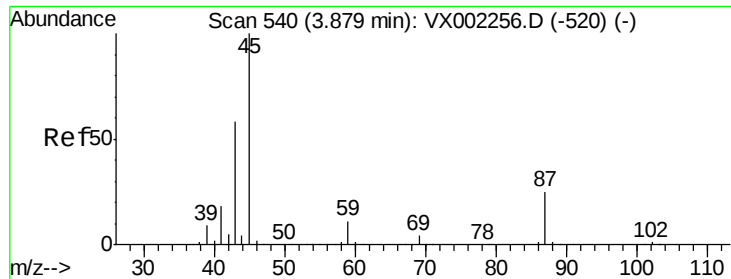
Tot Ion: 73 Resp: 20
Ion Ratio Lower Upper
73 100
57 57.1 17.7 26.5#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002508.D
Acq: 13 Jun 2018 13:56

Tgt Ion: 84 Resp: 5164
Ion Ratio Lower Upper
84 100
49 119.5 107.8 161.6
51 39.6 32.8 49.2
86 57.8 52.5 78.7

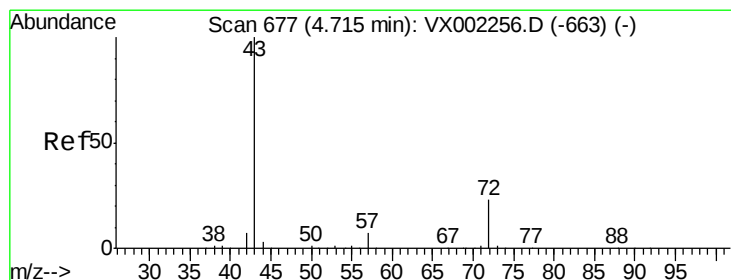
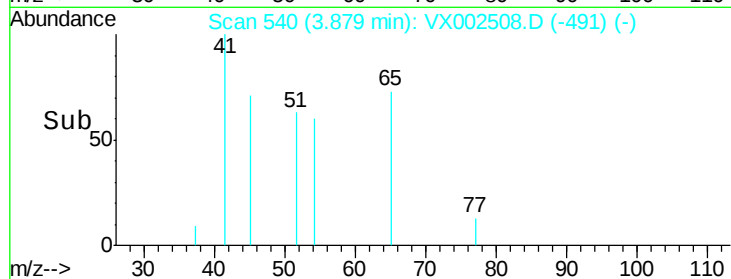
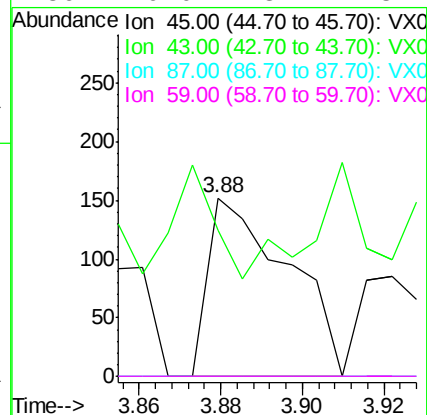
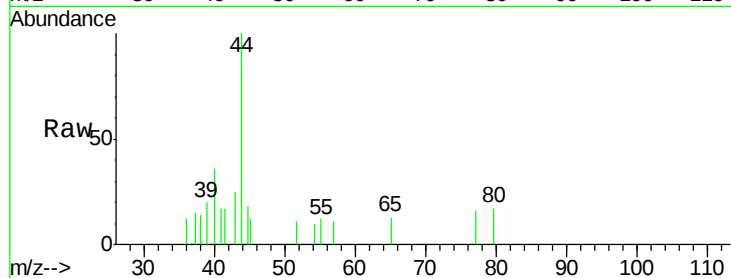




#22
Diisopropyl ether
Concen: Below Cal
RT: 3.88 min Scan# 540
Delta R.T. 0.00 min
Lab File: VX002508.D
Acq: 13 Jun 2018 13:56

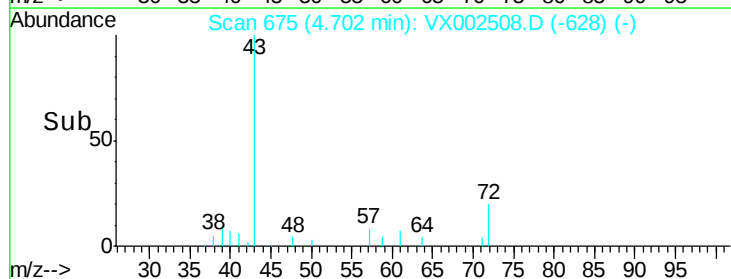
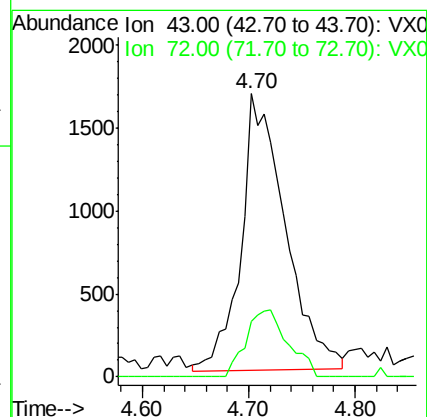
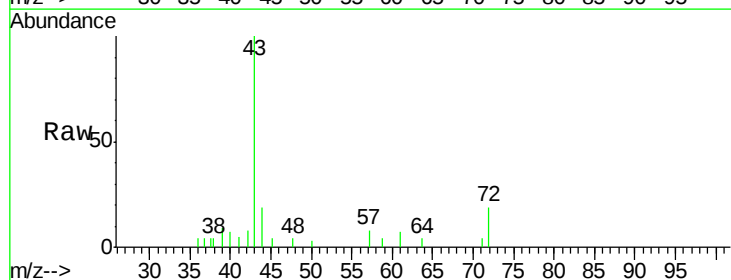
Instrument :
MSVOA_X
ClientSampleId :

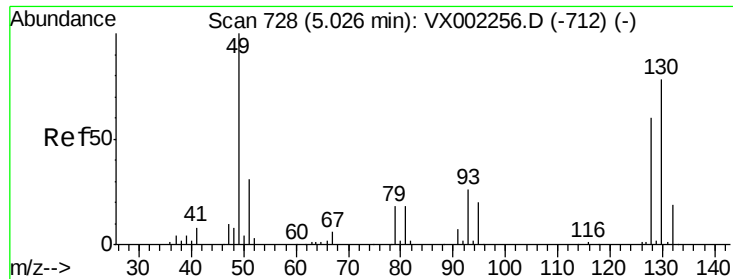
Tot Ion:	45	Resp:	206
Ion	Ratio	Lower	Upper
45	100		
43	0.0	46.8	70.2#
87	0.0	20.2	30.4#
59	0.0	8.7	13.1#



#25
2-Butanone
Concen: 2.50 ug/l
RT: 4.70 min Scan# 675
Delta R.T. -0.01 min
Lab File: VX002508.D
Acq: 13 Jun 2018 13:56

Tgt Ion:	43	Resp:	4845
Ion	Ratio	Lower	Upper
43	100		
72	20.3	18.5	27.7



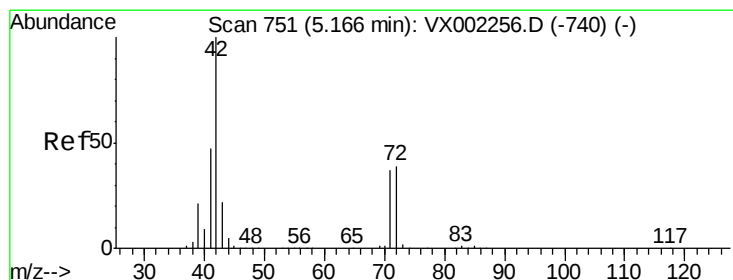
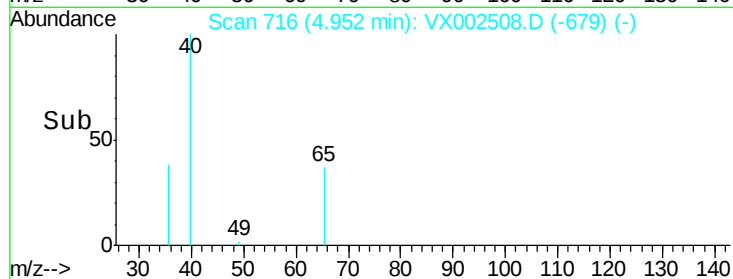
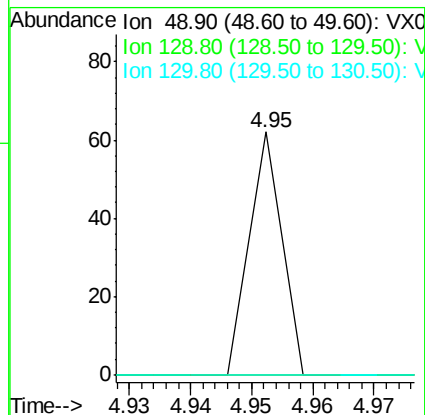
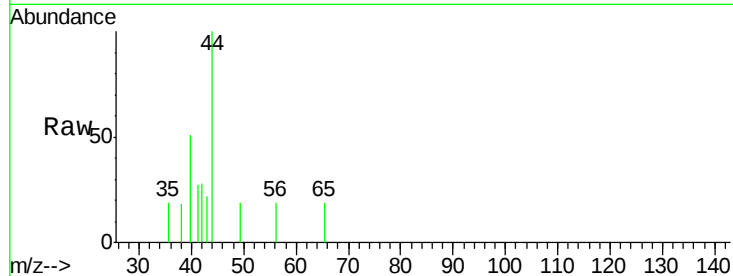


#28

Bromochloromethane
 Concen: Below Cal
 RT: 4.95 min Scan# 716
 Delta R.T. -0.07 min
 Lab File: VX002508.D
 Acq: 13 Jun 2018 13:56

Instrument :
 MSVOA_X
 ClientSampleId :

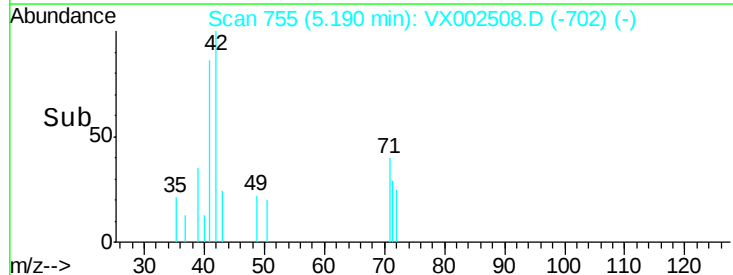
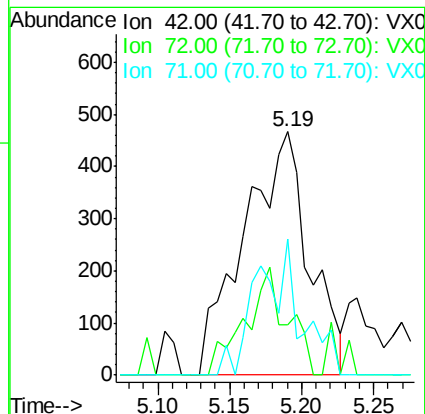
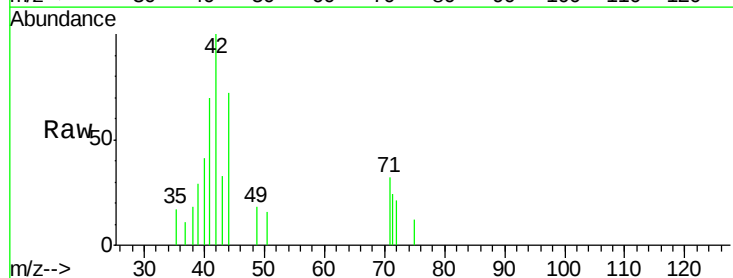
Tot Ion: 49 Resp: 23
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 4.2
 130 0.0 61.2 91.8#

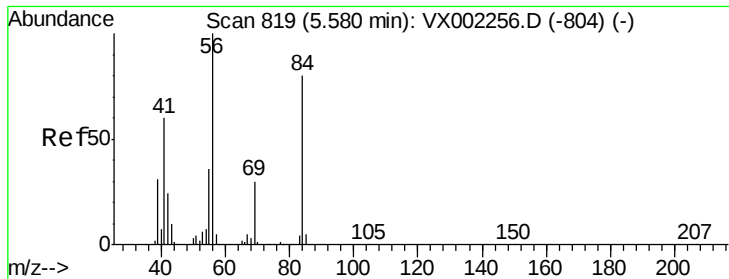


#29

Tetrahydrofuran
 Concen: 1.18 ug/l
 RT: 5.19 min Scan# 755
 Delta R.T. 0.02 min
 Lab File: VX002508.D
 Acq: 13 Jun 2018 13:56

Tgt Ion: 42 Resp: 1469
 Ion Ratio Lower Upper
 42 100
 72 28.8 32.0 48.0#
 71 30.6 30.1 45.1

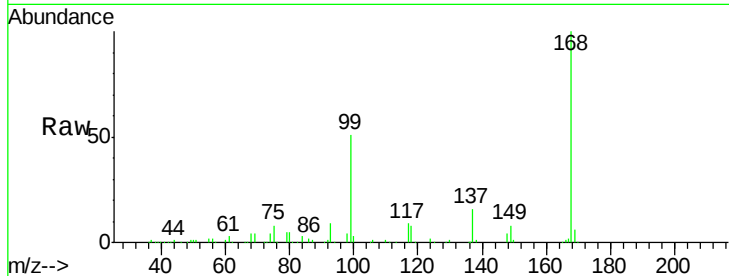




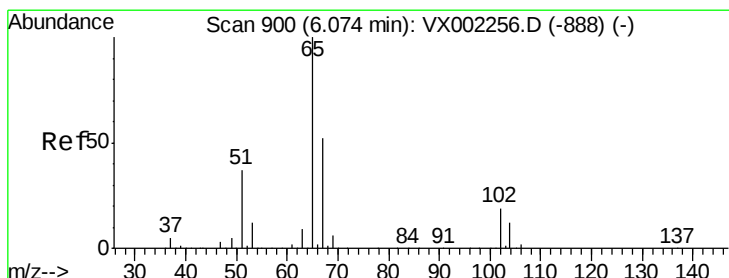
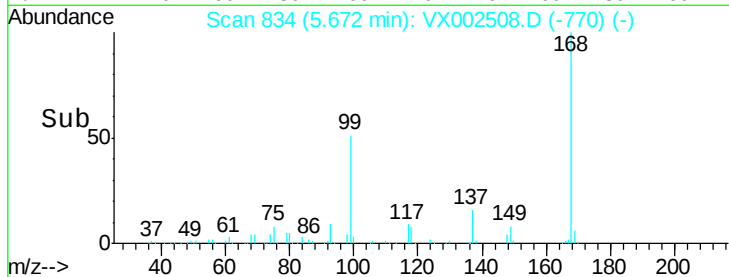
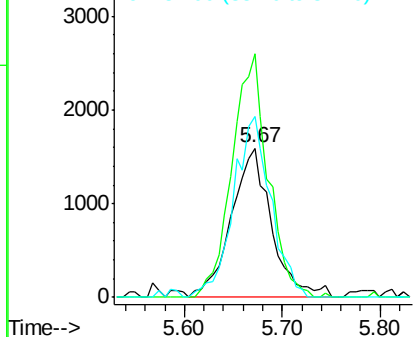
#31
Cyclohexane
Concen: 1.27 ug/l
RT: 5.67 min Scan# 834
Delta R.T. 0.09 min
Lab File: VX002508.D
Acq: 13 Jun 2018 13:56

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
56	100		
69	163.3	23.7	35.5#
84	121.0	64.1	96.1#

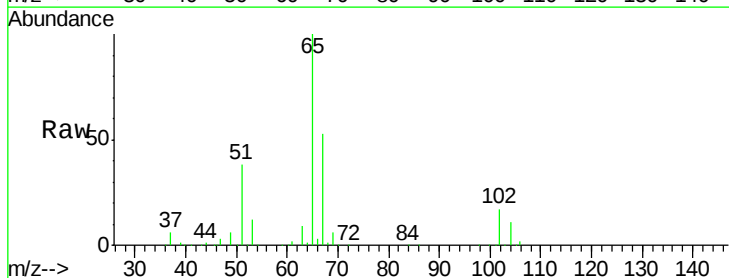


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

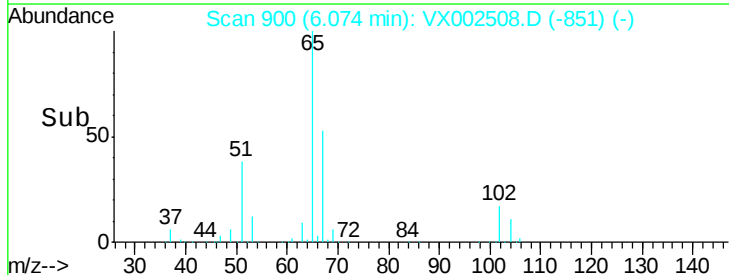
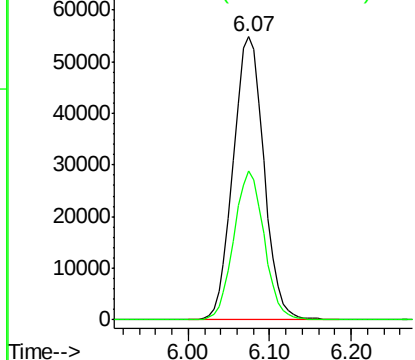


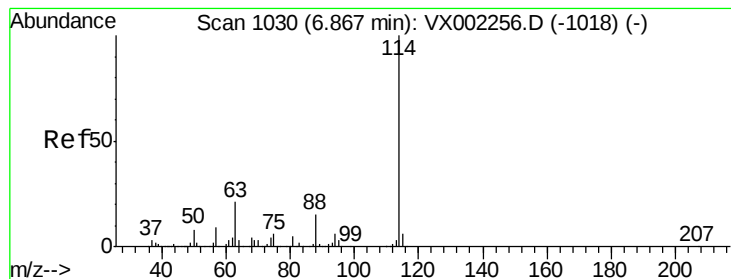
#33
1,2-Dichloroethane-d4
Concen: 50.66 ug/l
RT: 6.07 min Scan# 900
Delta R.T. -0.00 min
Lab File: VX002508.D
Acq: 13 Jun 2018 13:56

Tgt Ion	Ratio	Lower	Upper
65	100		
67	51.8	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: VX002508.D

Acq: 13 Jun 2018 13:56

Instrument :

MSVOA_X

ClientSampleId :

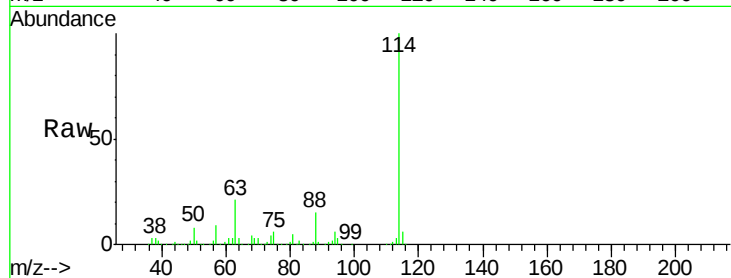
Tot Ion:114 Resp: 289741

Ion Ratio Lower Upper

114 100

63 20.8 0.0 41.4

88 15.4 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

150000

100000

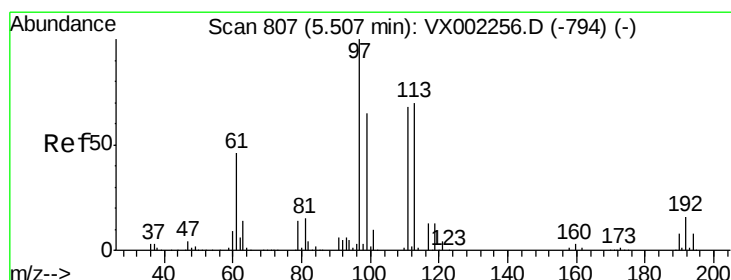
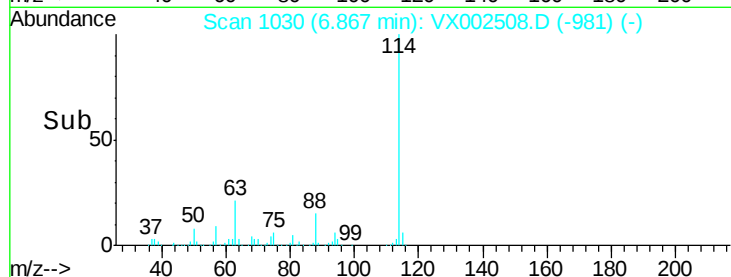
50000

0

6.87

6.80 6.90 7.00

Time-->



#35

Dibromofluoromethane

Concen: 46.02 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.01 min

Lab File: VX002508.D

Acq: 13 Jun 2018 13:56

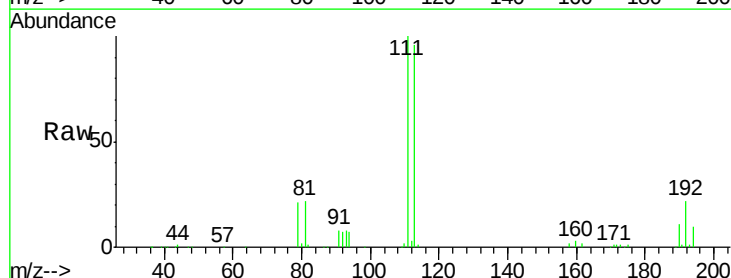
Tgt Ion:113 Resp: 104855

Ion Ratio Lower Upper

113 100

111 104.3 81.4 122.0

192 23.0 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

50000

40000

30000

20000

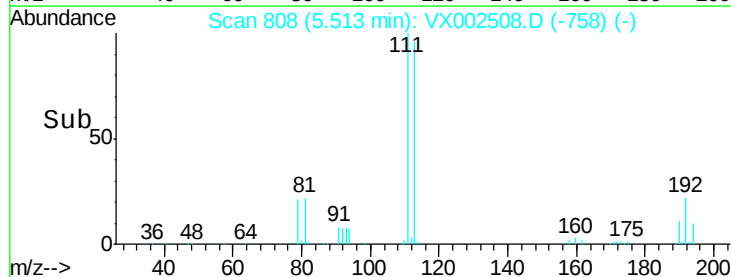
10000

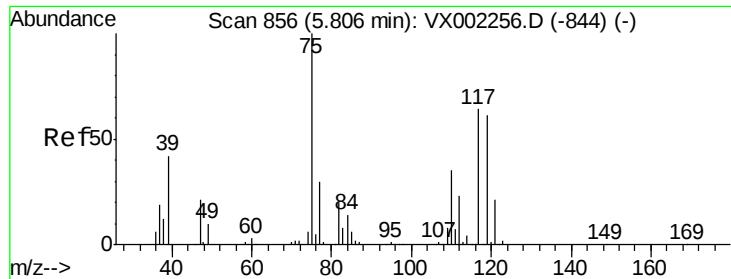
0

5.51

5.40 5.50 5.60

Time-->

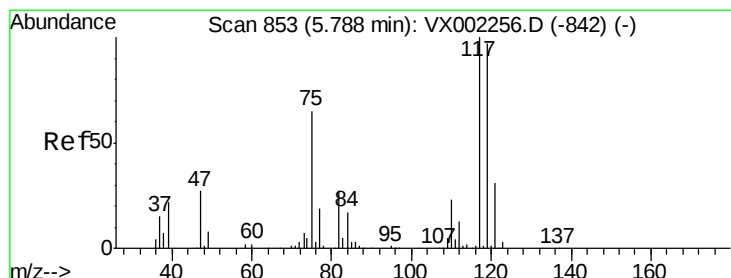
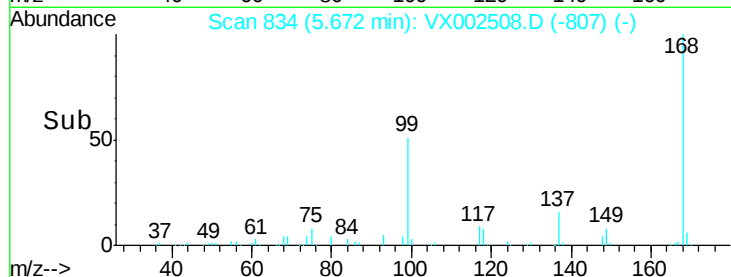
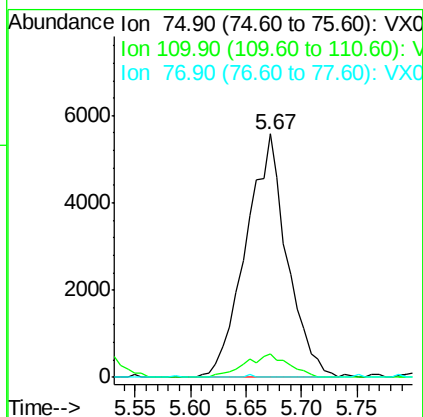
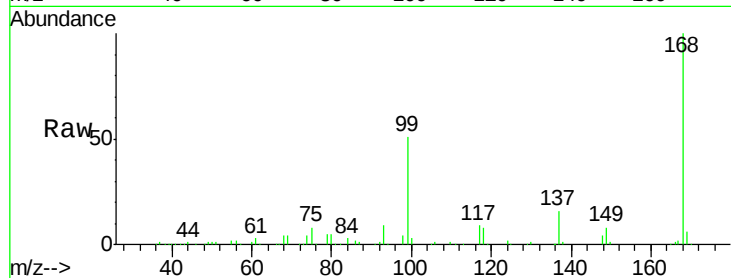




#36
 1,1-Dichloropropene
 Concen: 4.71 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX002508.D
 Acq: 13 Jun 2018 13:56

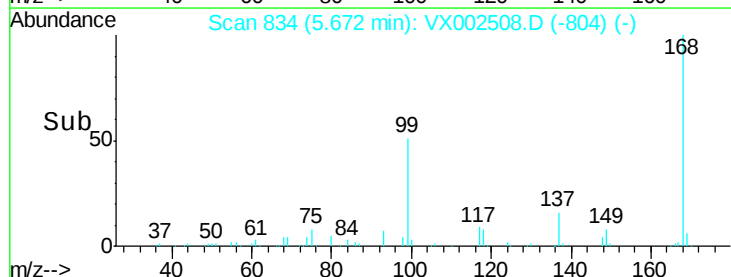
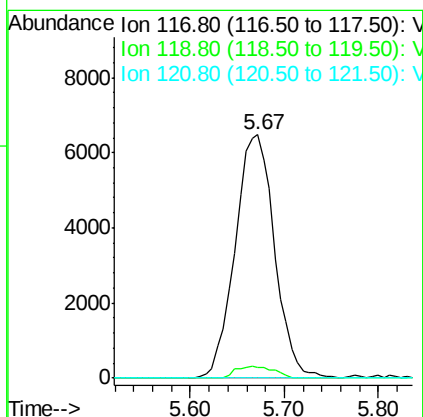
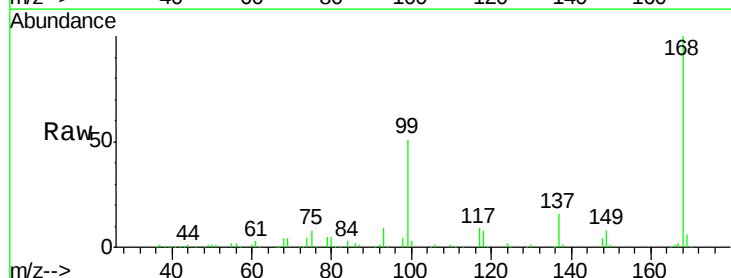
Instrument :
 MSVOA_X
 ClientSampleId :

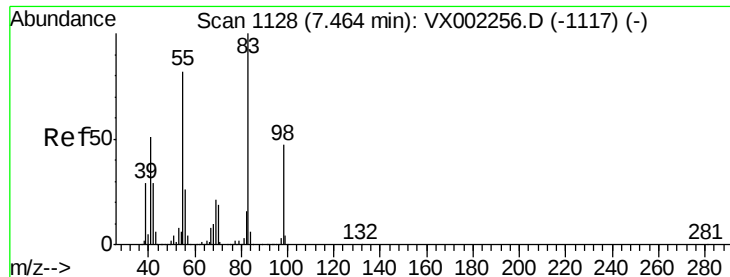
Tot Ion: 75 Resp: 14361
 Ion Ratio Lower Upper
 75 100
 110 10.2 18.1 54.4#
 77 0.1 24.3 36.5#



#38
 Carbon Tetrachloride
 Concen: 5.92 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX002508.D
 Acq: 13 Jun 2018 13:56

Tgt Ion: 117 Resp: 18856
 Ion Ratio Lower Upper
 117 100
 119 4.6 77.4 116.0#
 121 0.0 24.4 36.6#

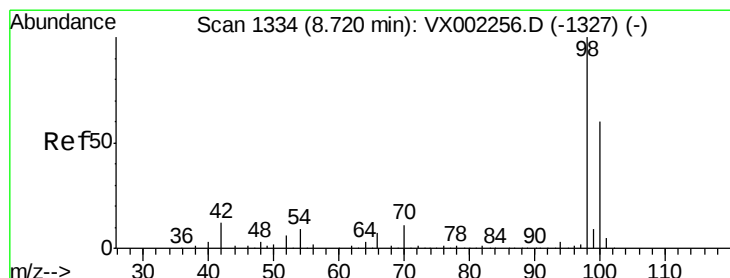
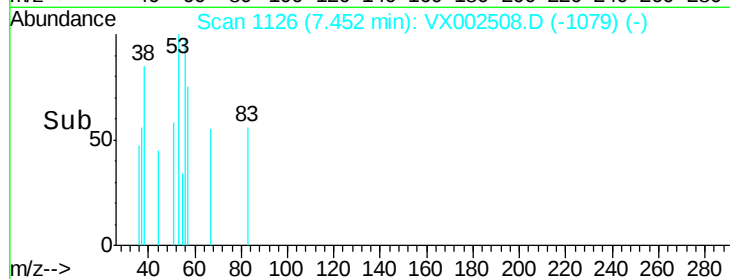
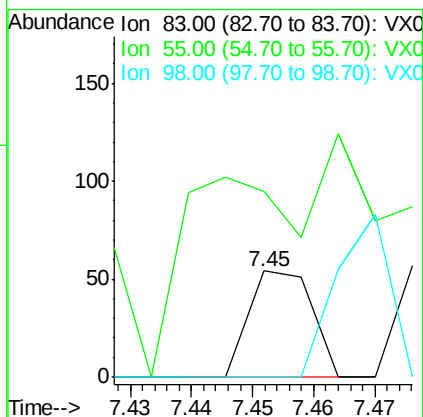
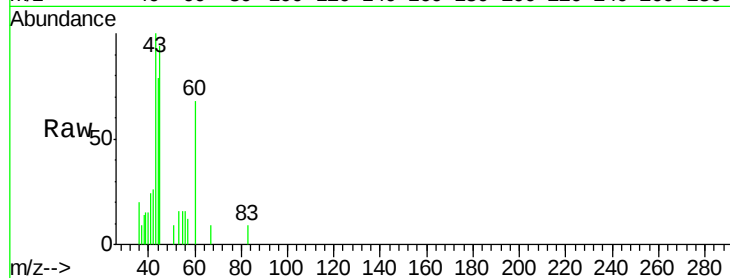




#39
Methylcyclohexane
Concen: 0.27 ug/l
RT: 7.45 min Scan# 1126
Delta R.T. -0.01 min
Lab File: VX002508.D
Acq: 13 Jun 2018 13:56

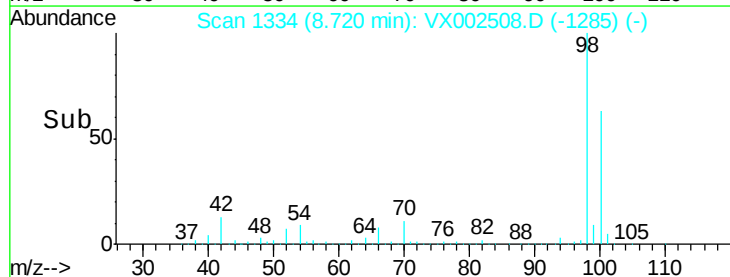
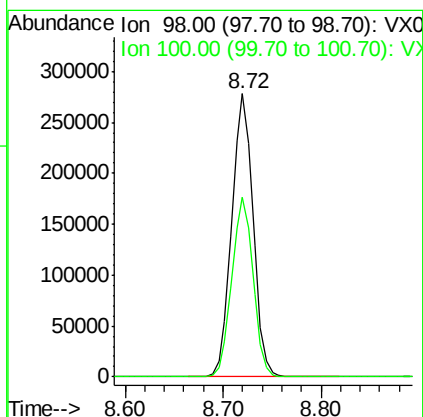
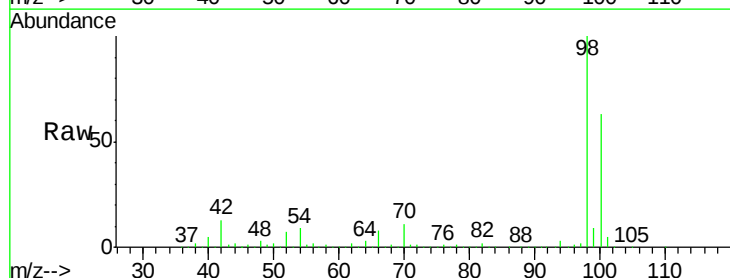
Instrument :
MSVOA_X
ClientSampleId :

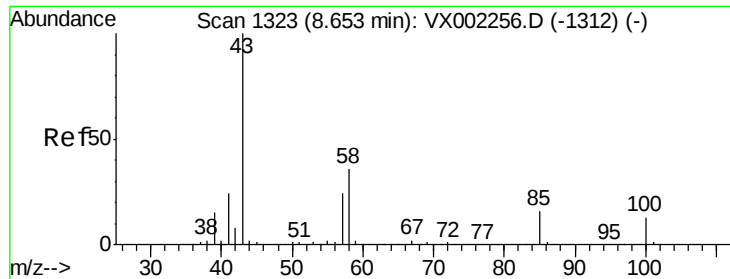
Tot Ion: 83 Resp: 38
Ion Ratio Lower Upper
83 100
55 1.9 65.4 98.0#
98 0.0 37.4 56.0#



#50
Toluene-d8
Concen: 48.25 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX002508.D
Acq: 13 Jun 2018 13:56

Tgt Ion: 98 Resp: 421363
Ion Ratio Lower Upper
98 100
100 63.3 50.9 76.3





#51

4-Methyl-2-Pentanone

Concen: 0.56 ug/l

RT: 8.65 min Scan# 1323

Delta R.T. -0.00 min

Lab File: VX002508.D

Acq: 13 Jun 2018 13:56

Instrument :

MSVOA_X

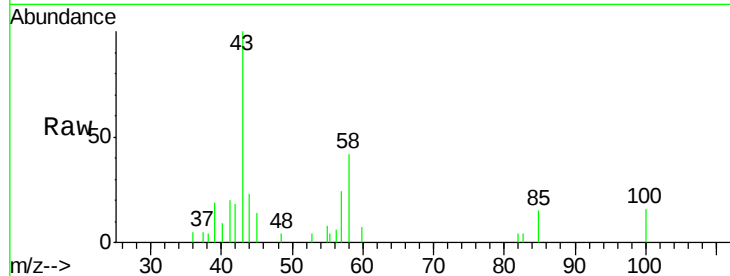
ClientSampled :

Tot Ion: 43 Resp: 2170

Ion Ratio Lower Upper

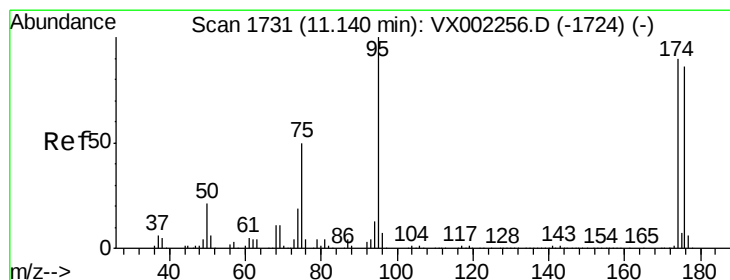
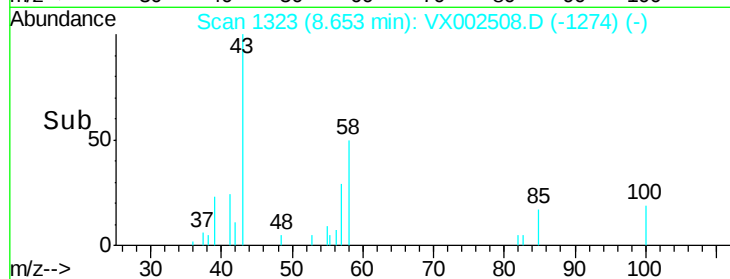
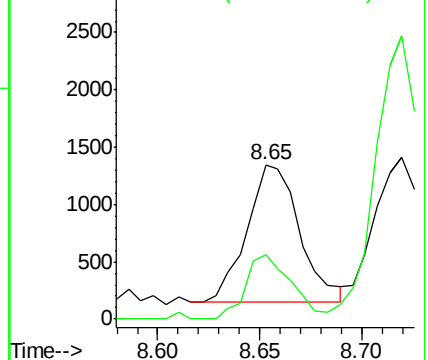
43 100

58 40.6 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 41.97 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002508.D

Acq: 13 Jun 2018 13:56

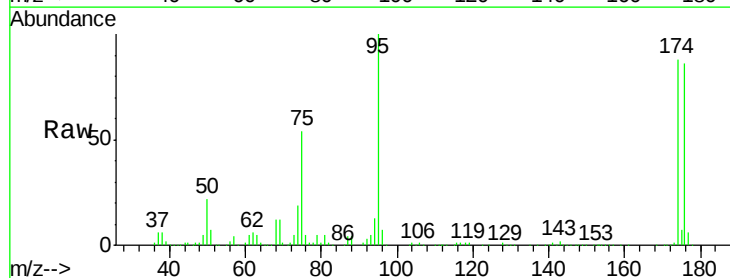
Tgt Ion: 95 Resp: 141329

Ion Ratio Lower Upper

95 100

174 94.1 0.0 187.4

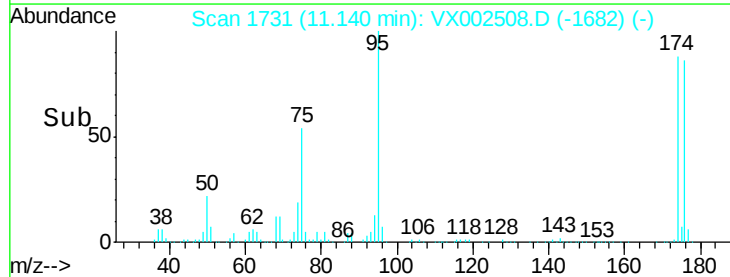
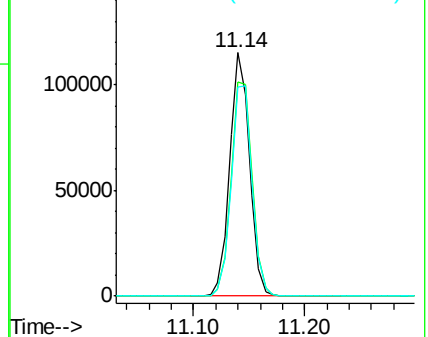
176 91.3 0.0 181.0

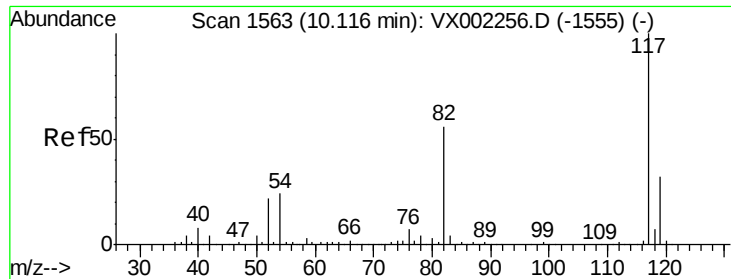


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

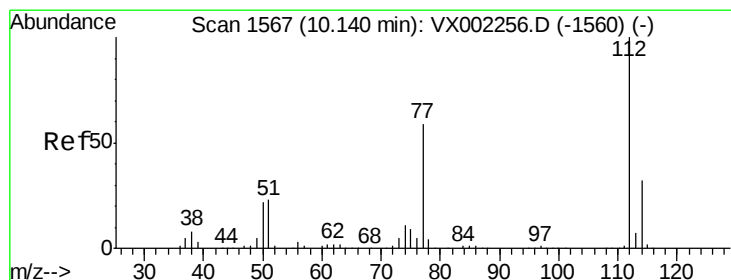
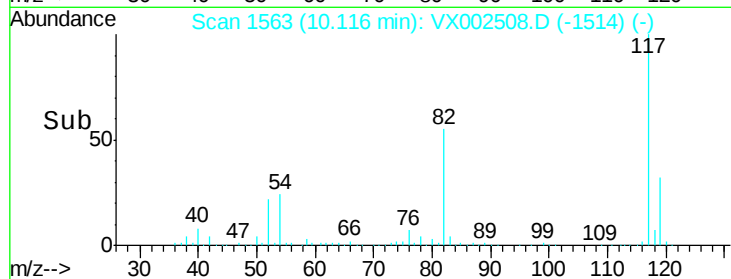
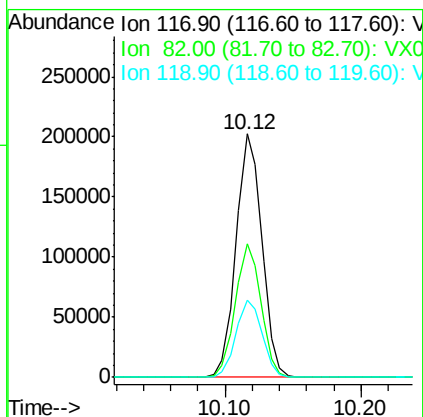
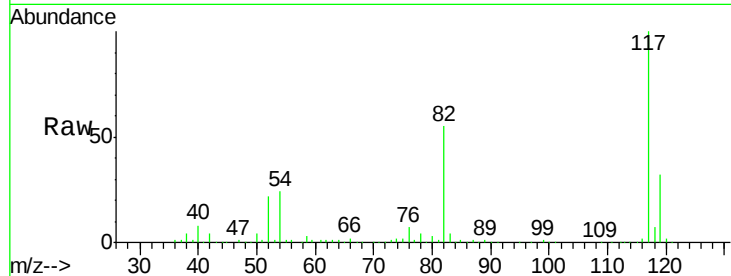




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002508.D
Acq: 13 Jun 2018 13:56

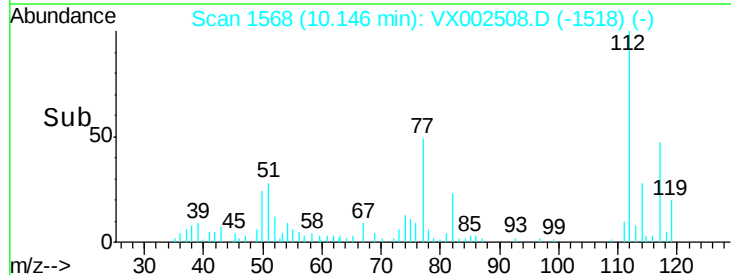
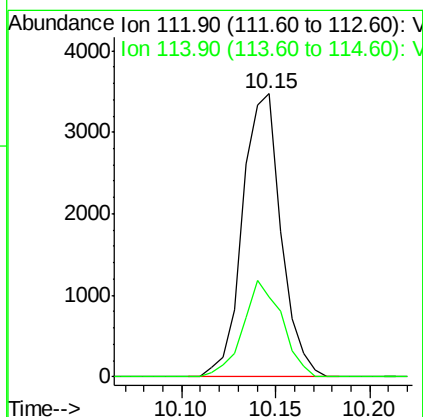
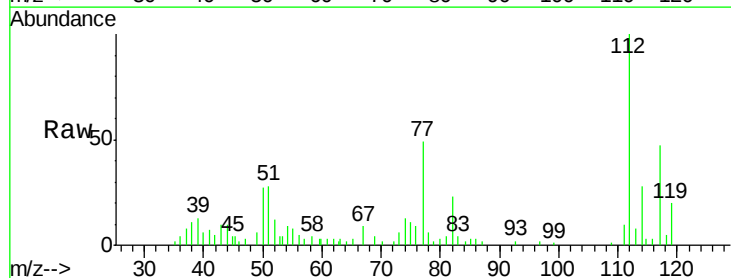
Instrument :
MSVOA_X
ClientSampled :

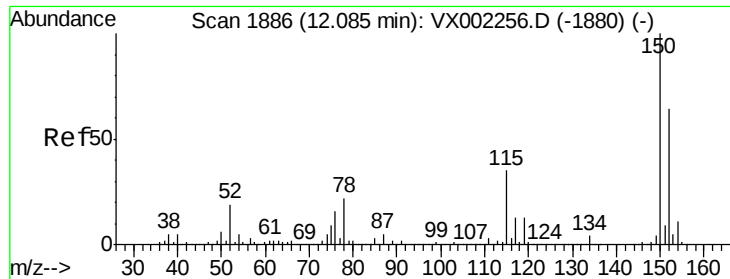
Tot Ion:117 Resp: 267933
Ion Ratio Lower Upper
117 100
82 54.7 45.0 67.4
119 31.9 25.8 38.6



#65
Chlorobenzene
Concen: 0.74 ug/l
RT: 10.15 min Scan# 1568
Delta R.T. 0.01 min
Lab File: VX002508.D
Acq: 13 Jun 2018 13:56

Tgt Ion:112 Resp: 4931
Ion Ratio Lower Upper
112 100
114 28.3 25.3 37.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002508.D

Acq: 13 Jun 2018 13:56

Instrument :

MSVOA_X

ClientSampleId :

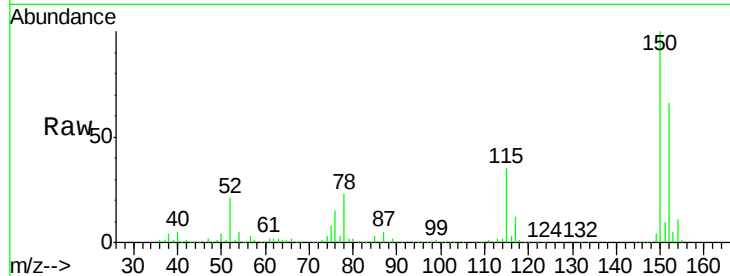
Tot Ion:152 Resp: 144355

Ion Ratio Lower Upper

152 100

115 54.8 40.1 120.2

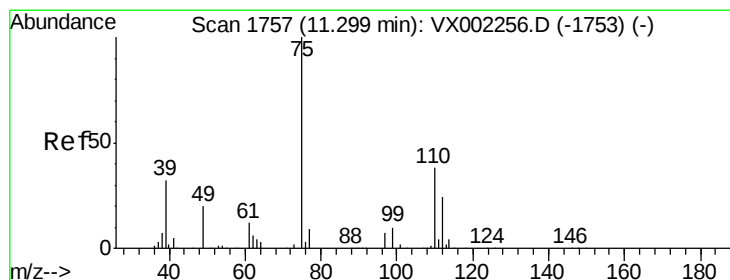
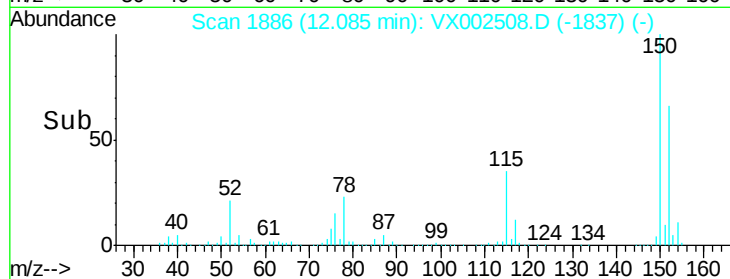
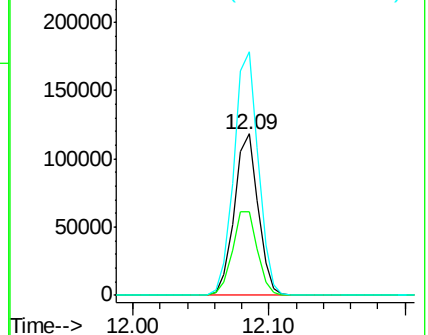
150 154.2 0.0 347.2



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: 24.38 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002508.D

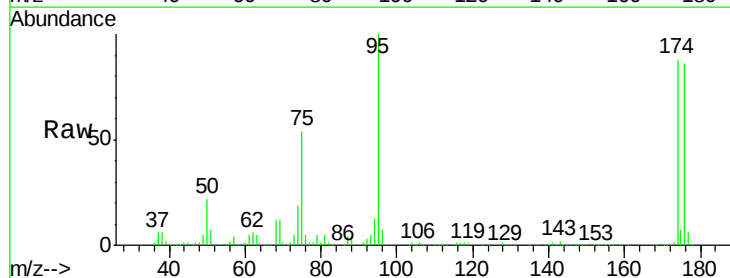
Acq: 13 Jun 2018 13:56

Tgt Ion: 75 Resp: 77218

Ion Ratio Lower Upper

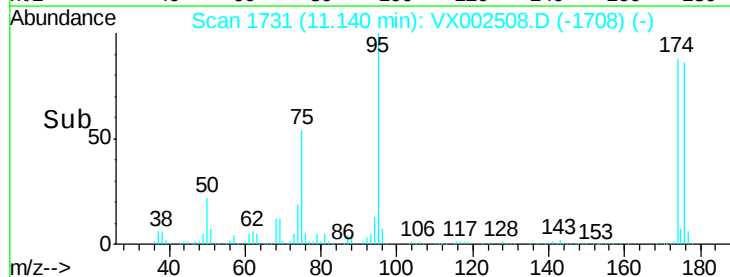
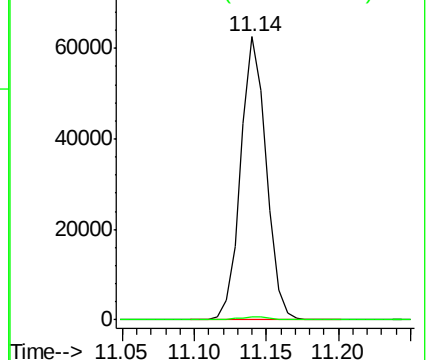
75 100

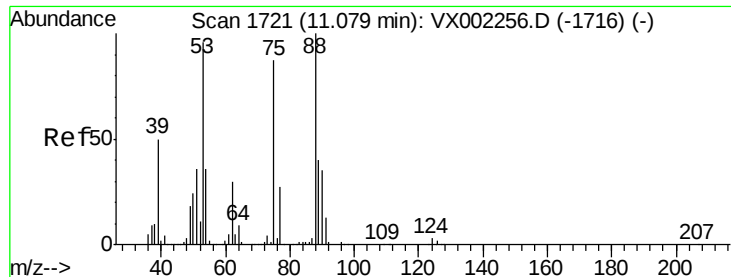
77 1.4 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 85.45 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002508.D

Acq: 13 Jun 2018 13:56

Instrument :

MSVOA_X

ClientSampled :

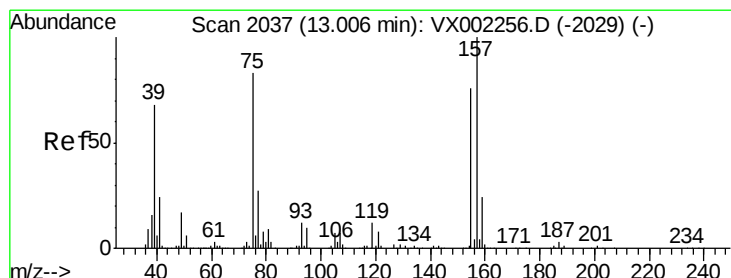
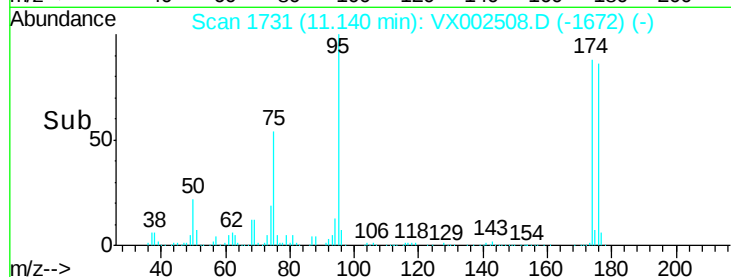
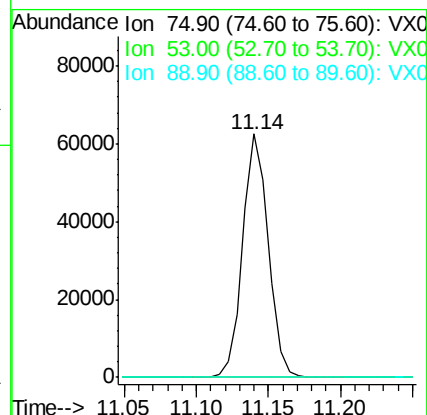
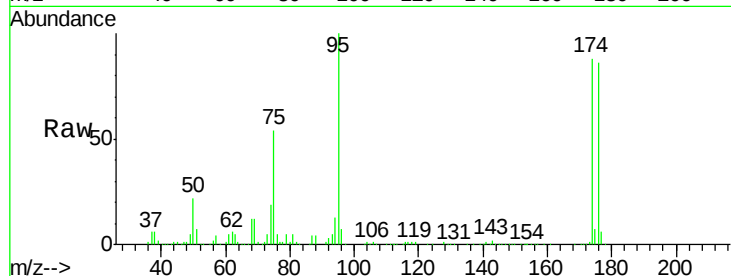
Tot Ion: 75 Resp: 77218

Ion Ratio Lower Upper

75 100

53 0.3 86.8 130.2#

89 0.0 38.2 57.2#



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.42 ug/l

RT: 12.98 min Scan# 2033

Delta R.T. -0.02 min

Lab File: VX002508.D

Acq: 13 Jun 2018 13:56

Tgt Ion: 75 Resp: 287

Ion Ratio Lower Upper

75 100

155 0.0 45.8 137.4#

157 0.0 60.1 180.3#

