

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061318\
 Data File : VX002505.D
 Acq On : 13 Jun 2018 12:36
 Operator : JC/MD
 Sample : PB110148ZHE#12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 14 01:43:14 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	196400	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	290013	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	274424	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	155834	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	142411	50.76	ug/l	0.00
Spiked Amount			Recovery	=	101.52%	
35) Dibromofluoromethane	5.51	113	105950	46.46	ug/l	0.00
Spiked Amount			Recovery	=	92.92%	
50) Toluene-d8	8.72	98	422011	48.28	ug/l	0.00
Spiked Amount			Recovery	=	96.56%	
62) 4-Bromofluorobenzene	11.14	95	148127	43.94	ug/l	0.00
Spiked Amount			Recovery	=	87.88%	

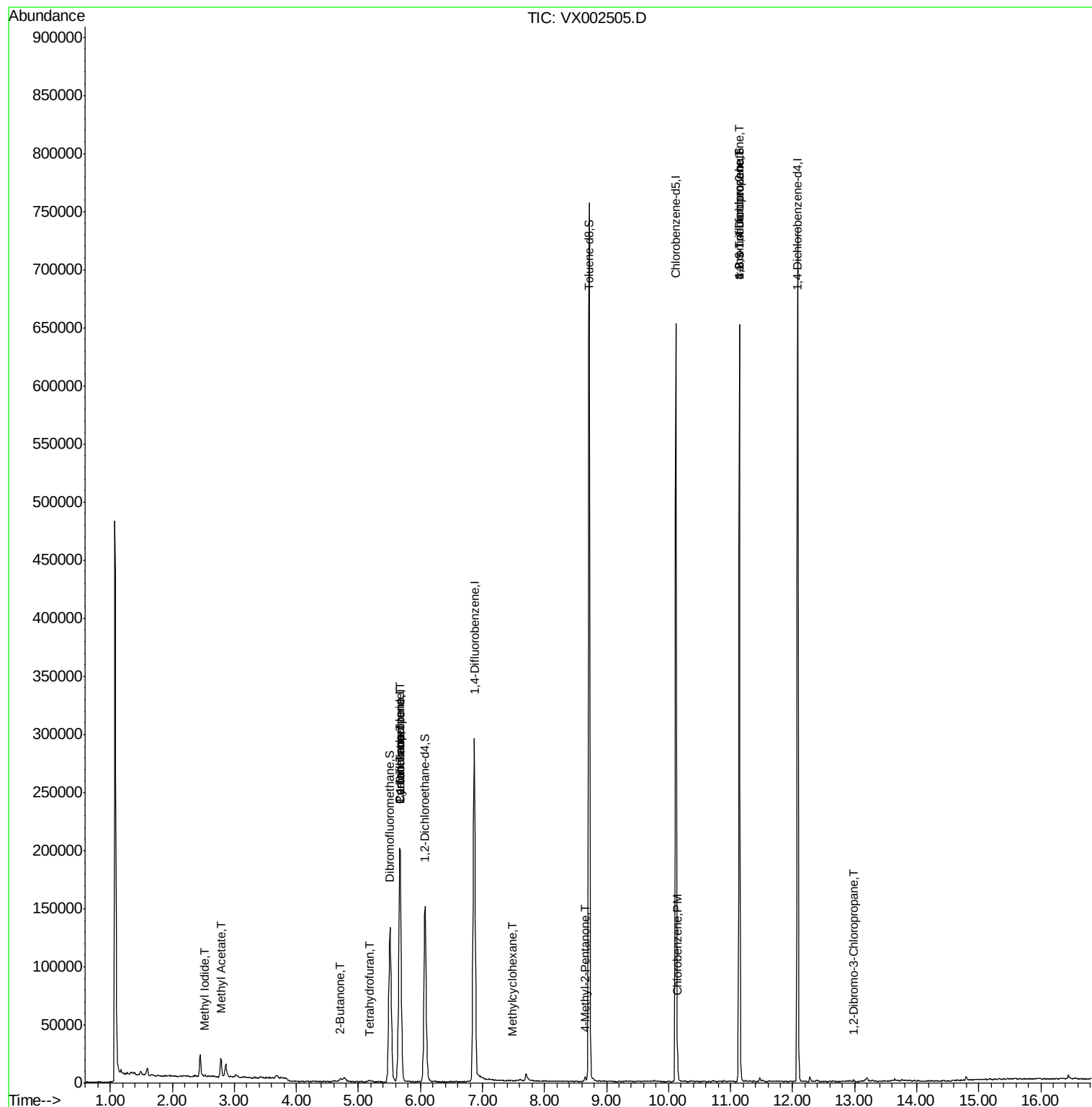
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	404	Below Cal		100
5) Bromomethane	1.62	94	64	Below Cal	#	60
8) Diethyl Ether	2.18	74	194	Below Cal		77
10) Methyl Iodide	2.53	142	1265	0.43	ug/l	98
11) Tert butyl alcohol	3.03	59	1676	Below Cal	#	85
13) Acrolein	2.30	56	83	Below Cal	#	65
15) Acrylonitrile	3.15	53	420	Below Cal	#	52
16) Acetone	2.45	43	19846	Below Cal		97
18) Methyl Acetate	2.78	43	19883	4.62	ug/l	97
19) Methyl tert-butyl Ether	3.21	73	151	Below Cal	#	54
20) Methylene Chloride	2.86	84	4712	Below Cal		90
22) Diisopropyl ether	3.87	45	72	Below Cal	#	45
25) 2-Butanone	4.71	43	5392	2.80	ug/l	88
28) Bromochloromethane	5.04	49	26	Below Cal	#	13
29) Tetrahydrofuran	5.18	42	1156	0.93	ug/l	85
31) Cyclohexane	5.67	56	4376	1.23	ug/l	10
36) 1,1-Dichloropropene	5.67	75	14137	4.64	ug/l	52
38) Carbon Tetrachloride	5.67	117	18978	5.95	ug/l	16
39) Methylcyclohexane	7.48	83	85	0.28	ug/l	57
51) 4-Methyl-2-Pentanone	8.65	43	2426	0.63	ug/l	90
65) Chlorobenzene	10.15	112	5229	0.77	ug/l	92
76) 1,2,3-Trichloropropane	11.14	75	81385	23.80	ug/l	33
81) trans-1,4-Dichloro-2-buten	11.14	75	81385	83.43	ug/l	7
92) 1,2-Dibromo-3-Chloropropan	12.98	75	214	0.29	ug/l	1

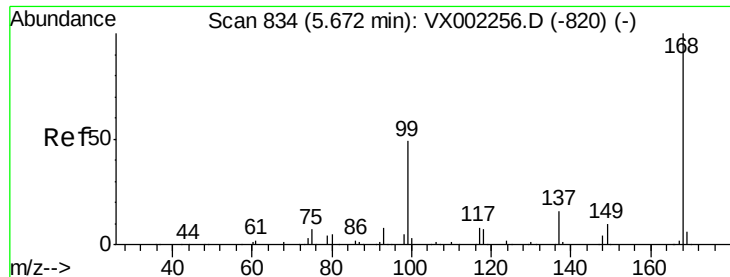
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X060418W.M
Quant Title : SW846 8260
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# 833

Delta R.T. -0.01 min

Lab File: VX002505.D

Acq: 13 Jun 2018 12:36

Instrument :

MSVOA_X

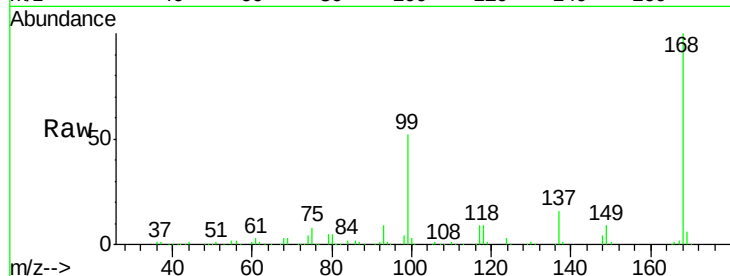
ClientSampleId :

Tot Ion:168 Resp: 196400

Ion Ratio Lower Upper

168 100

99 52.2 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

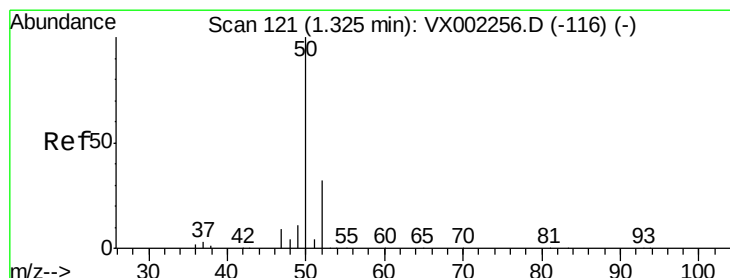
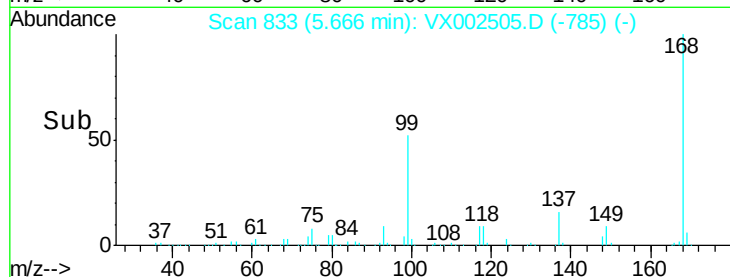
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002505.D

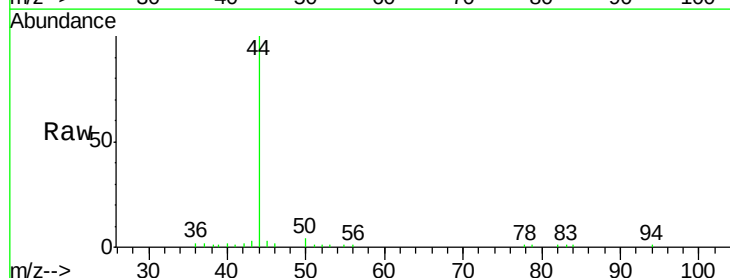
Acq: 13 Jun 2018 12:36

Tgt Ion: 50 Resp: 404

Ion Ratio Lower Upper

50 100

52 32.3 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

300

250

200

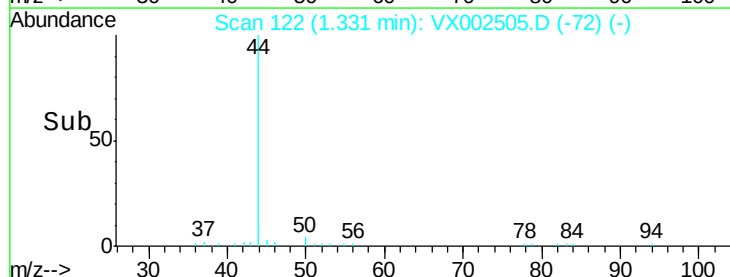
150

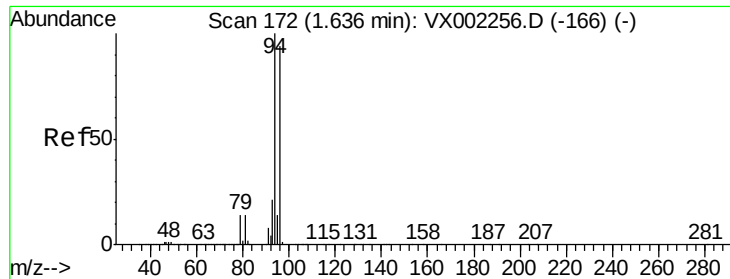
100

50

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 170

Delta R.T. -0.01 min

Lab File: VX002505.D

Acq: 13 Jun 2018 12:36

Instrument :

MSVOA_X

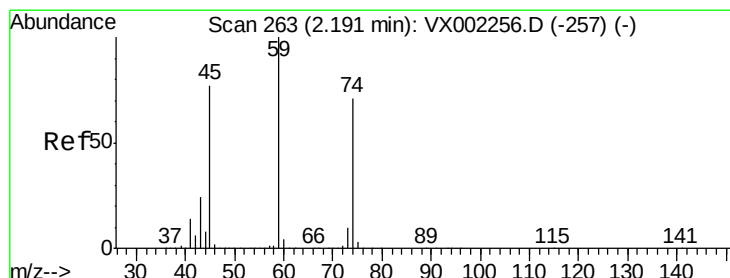
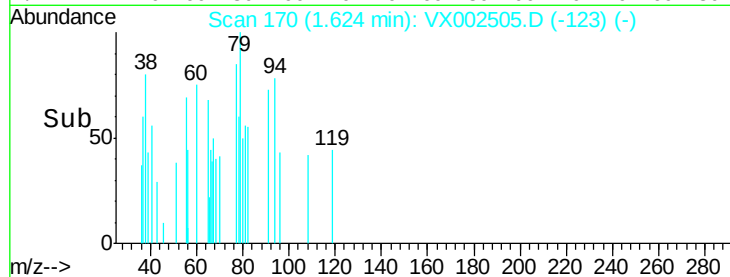
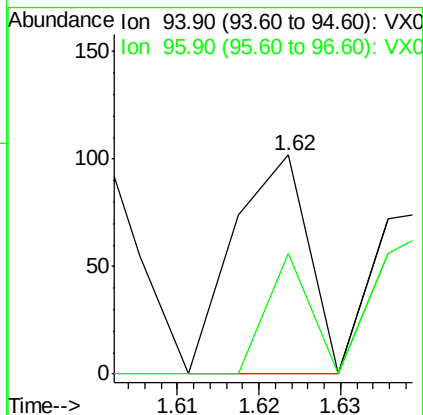
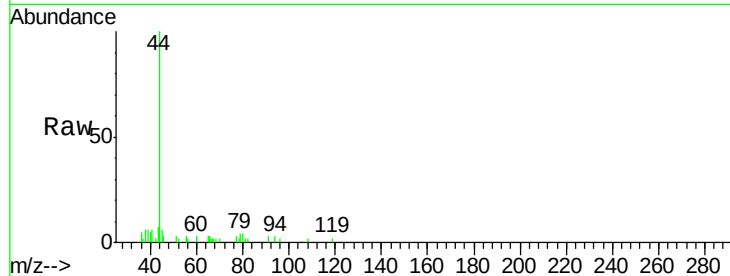
ClientSampled :

Tot Ion: 94 Resp: 64

Ion Ratio Lower Upper

94 100

96 54.9 74.9 112.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.18 min Scan# 262

Delta R.T. -0.01 min

Lab File: VX002505.D

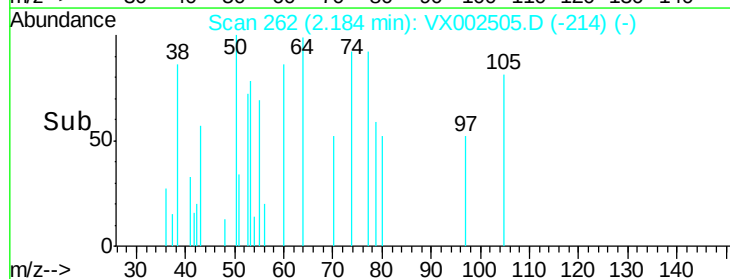
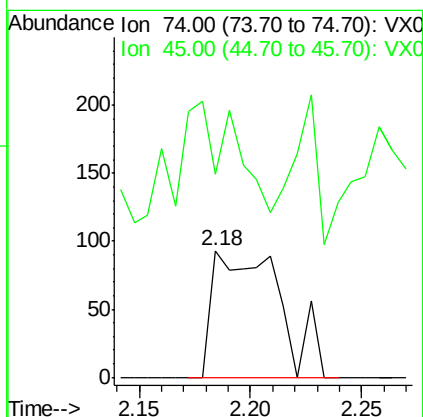
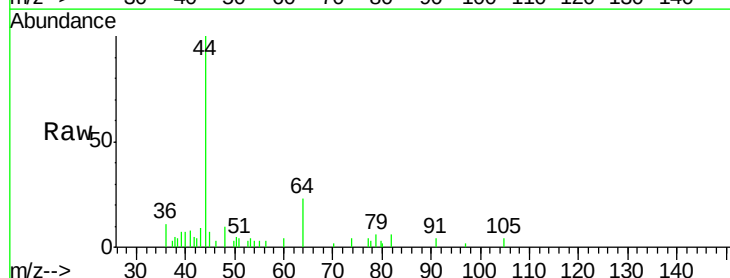
Acq: 13 Jun 2018 12:36

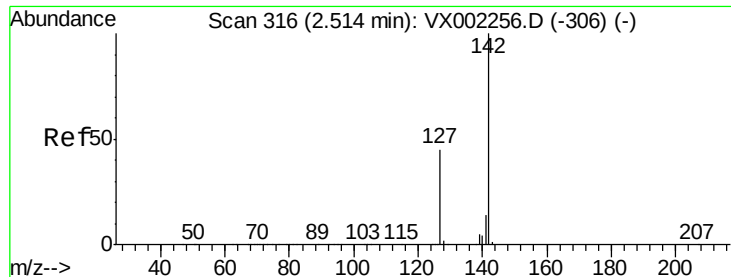
Tgt Ion: 74 Resp: 194

Ion Ratio Lower Upper

74 100

45 83.0 53.1 159.4

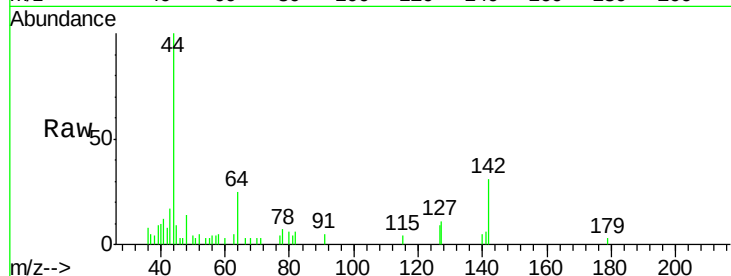




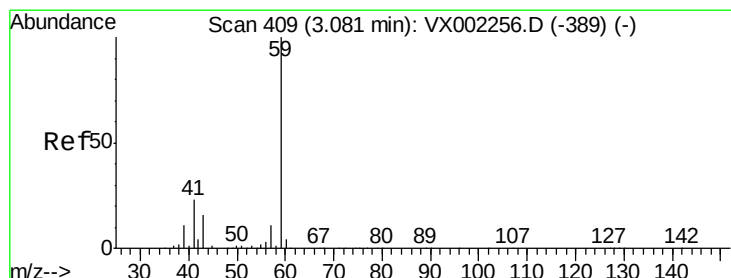
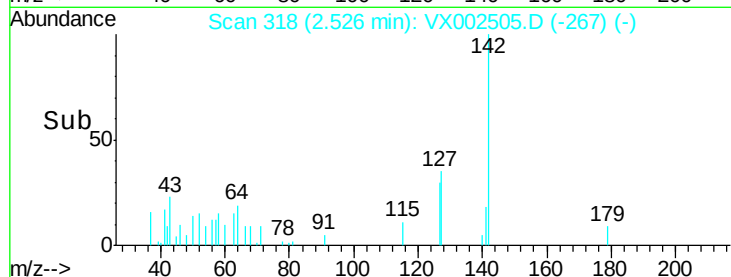
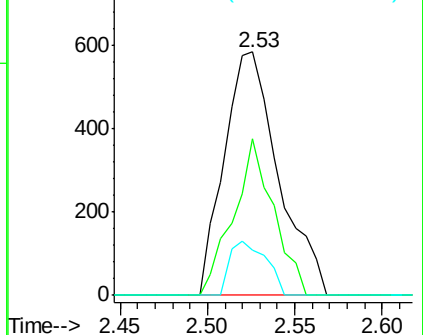
#10
Methyl Iodide
Concen: 0.43 ug/l
RT: 2.53 min Scan# 318
Delta R.T. 0.01 min
Lab File: VX002505.D
Acq: 13 Jun 2018 12:36

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:142 Resp: 1265
Ion Ratio Lower Upper
142 100
127 47.3 36.6 55.0
141 14.8 11.3 16.9

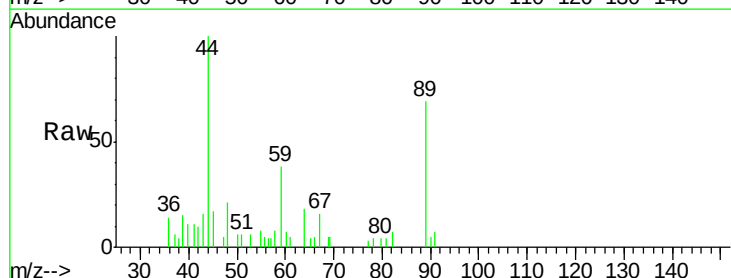


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

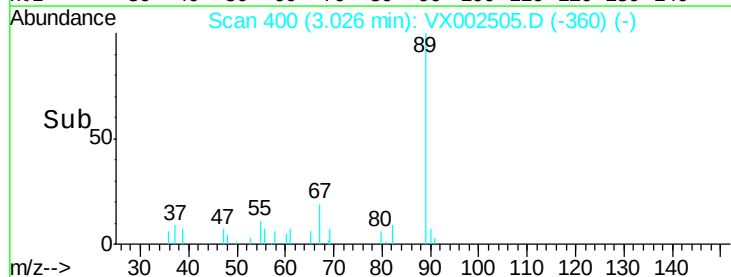
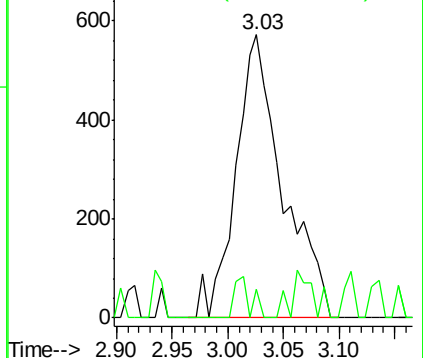


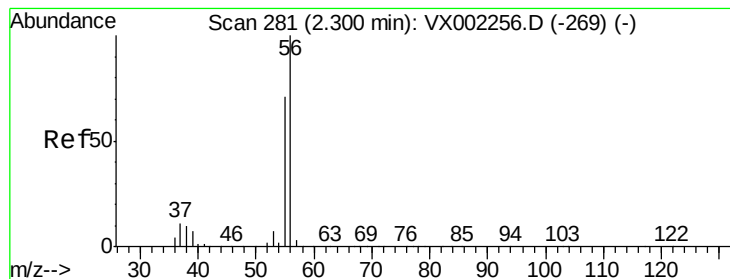
#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.03 min Scan# 400
Delta R.T. -0.05 min
Lab File: VX002505.D
Acq: 13 Jun 2018 12:36

Tgt Ion: 59 Resp: 1676
Ion Ratio Lower Upper
59 100
57 4.7 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: 2.30 min Scan# 281

Delta R.T. 0.00 min

Lab File: VX002505.D

Acq: 13 Jun 2018 12:36

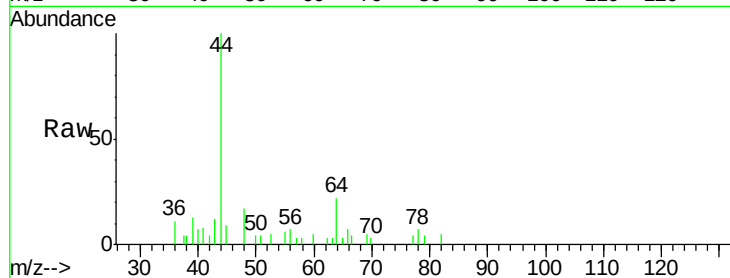
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 83

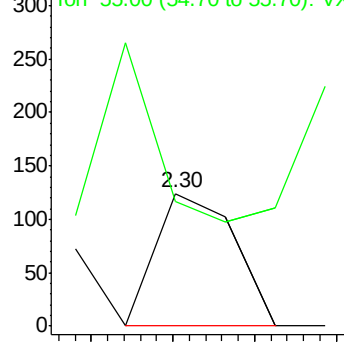
Ion Ratio Lower Upper

56 100

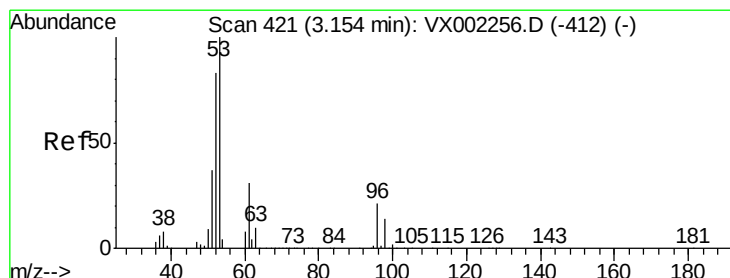
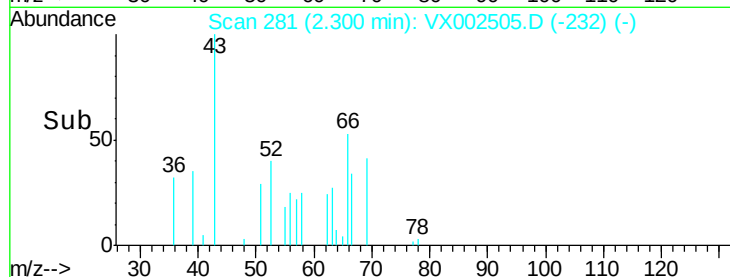
55 100.0 57.0 85.4#



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



Time-->



#15

Acrylonitrile

Concen: Below Cal

RT: 3.15 min Scan# 421

Delta R.T. 0.00 min

Lab File: VX002505.D

Acq: 13 Jun 2018 12:36

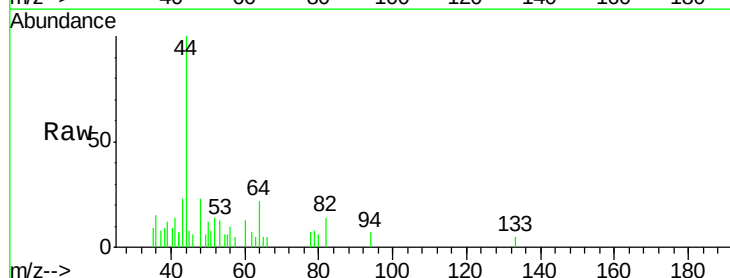
Tgt Ion: 53 Resp: 420

Ion Ratio Lower Upper

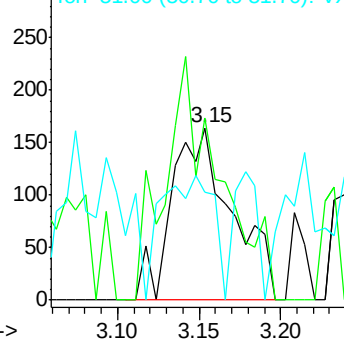
53 100

52 128.6 66.7 100.1#

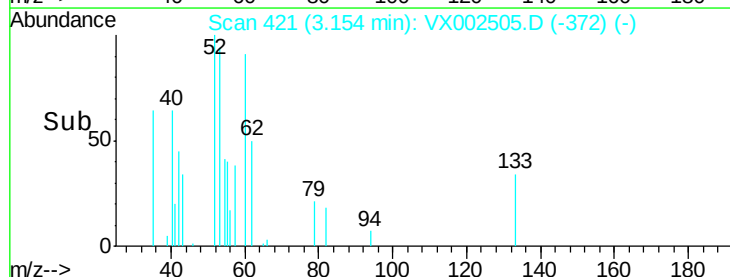
51 62.9 29.9 44.9#

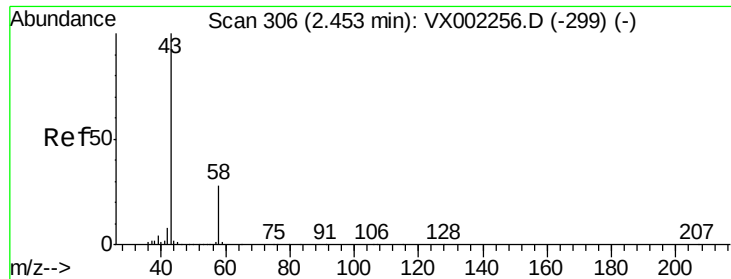


Abundance Ion 53.00 (52.70 to 53.70): VX0
Ion 52.00 (51.70 to 52.70): VX0
Ion 51.00 (50.70 to 51.70): VX0



Time-->

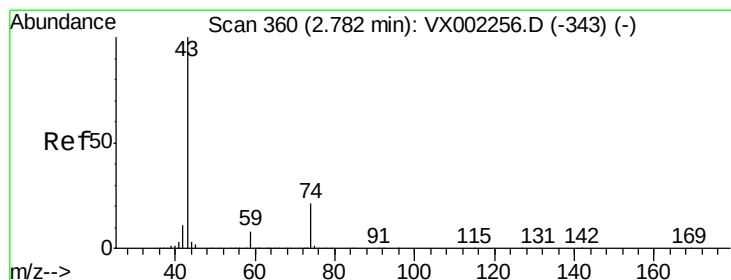
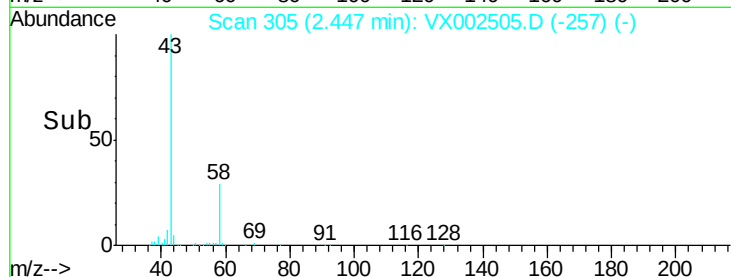
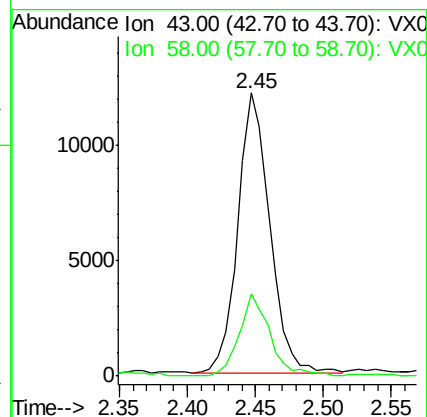
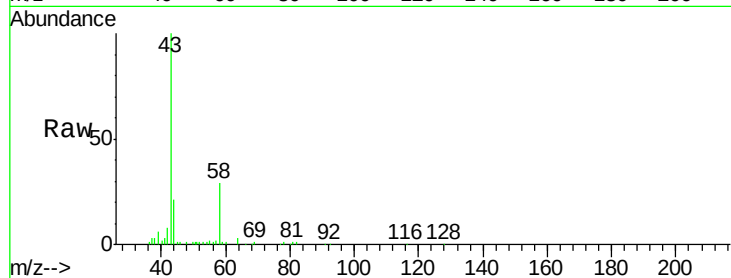




#16
Acetone
Concen: Below Cal
RT: 2.45 min Scan# 305
Delta R.T. -0.01 min
Lab File: VX002505.D
Acq: 13 Jun 2018 12:36

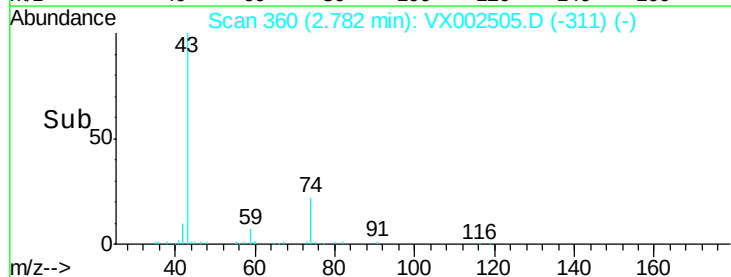
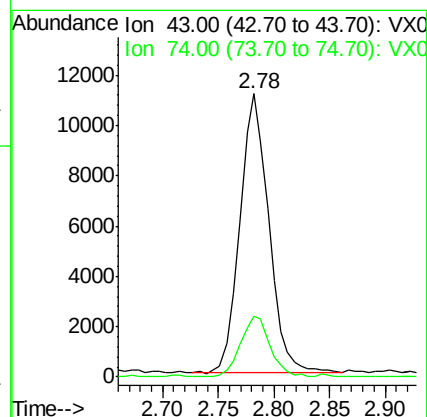
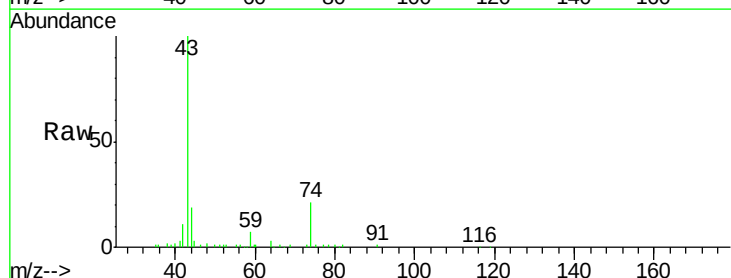
Instrument :
MSVOA_X
ClientSampled :

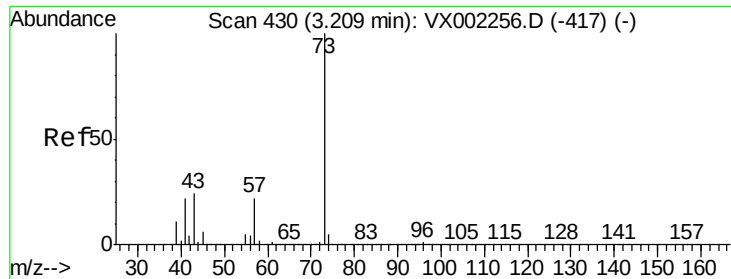
Tot Ion: 43 Resp: 19846
Ion Ratio Lower Upper
43 100
58 29.4 22.1 33.1



#18
Methyl Acetate
Concen: 4.62 ug/l
RT: 2.78 min Scan# 360
Delta R.T. -0.00 min
Lab File: VX002505.D
Acq: 13 Jun 2018 12:36

Tgt Ion: 43 Resp: 19883
Ion Ratio Lower Upper
43 100
74 22.3 16.7 25.1



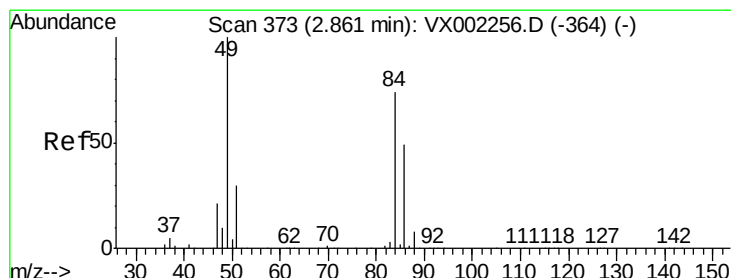
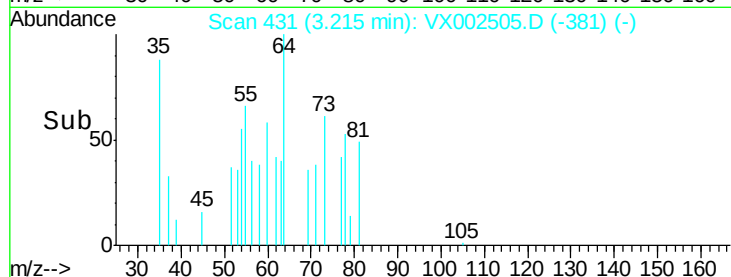
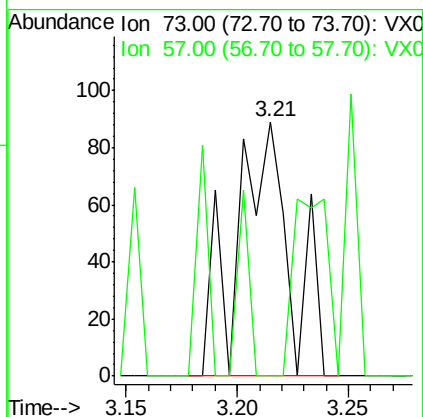
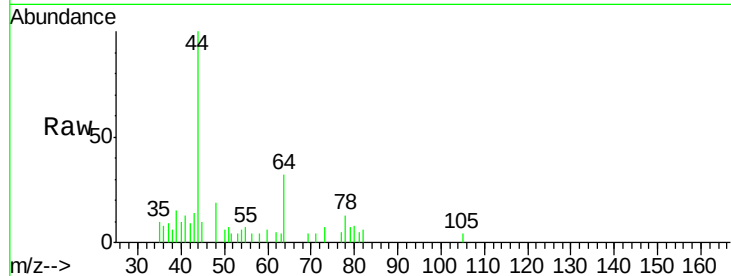


#19

Methyl tert-butyl Ether
 Concen: Below Cal
 RT: 3.21 min Scan# 431
 Delta R.T. 0.01 min
 Lab File: VX002505.D
 Acq: 13 Jun 2018 12:36

Instrument :
 MSVOA_X
 ClientSampleId :

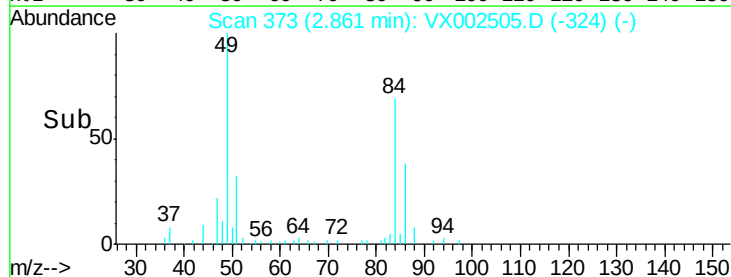
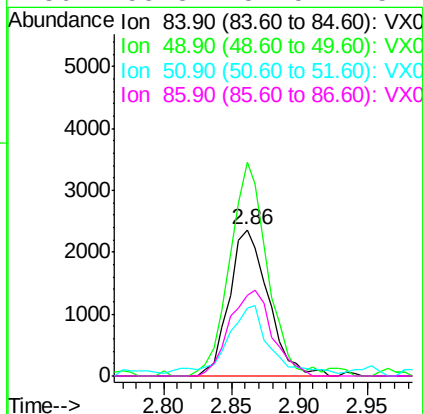
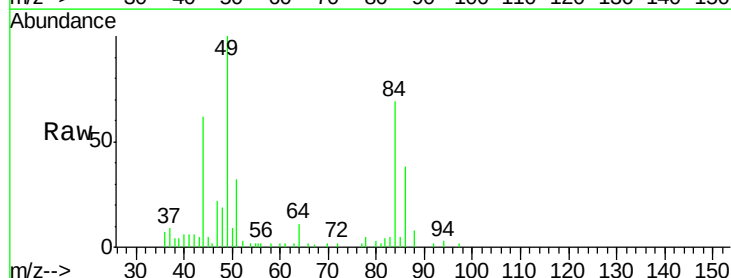
Tot Ion: 73 Resp: 151
 Ion Ratio Lower Upper
 73 100
 57 0.0 17.7 26.5#

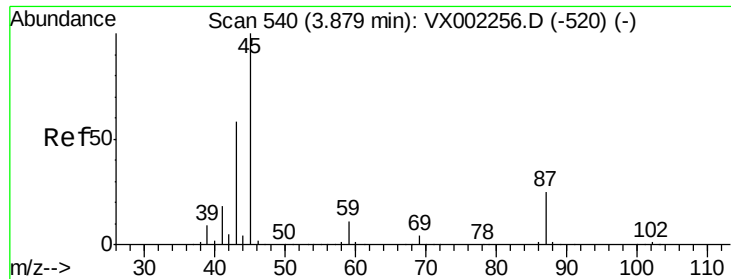


#20

Methylene Chloride
 Concen: Below Cal
 RT: 2.86 min Scan# 373
 Delta R.T. 0.00 min
 Lab File: VX002505.D
 Acq: 13 Jun 2018 12:36

Tgt Ion: 84 Resp: 4712
 Ion Ratio Lower Upper
 84 100
 49 145.8 107.8 161.6
 51 43.9 32.8 49.2
 86 55.3 52.5 78.7





#22

Diisopropyl ether

Concen: Below Cal

RT: 3.87 min Scan# 538

Delta R.T. -0.01 min

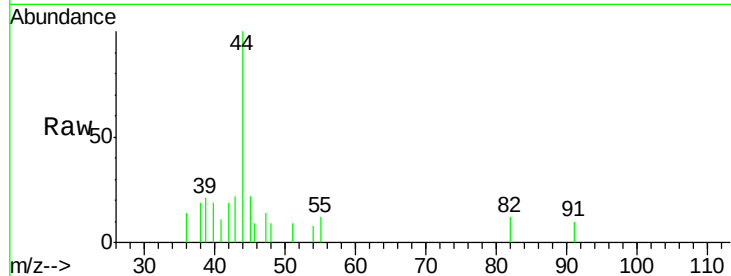
Lab File: VX002505.D

Acq: 13 Jun 2018 12:36

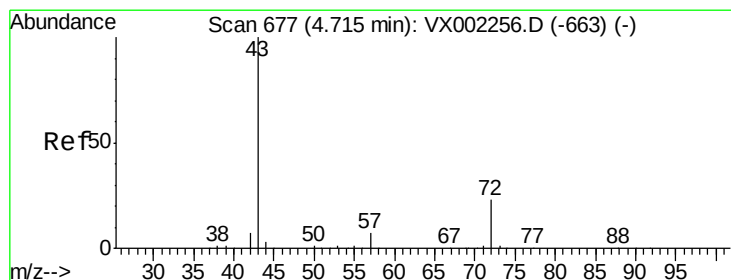
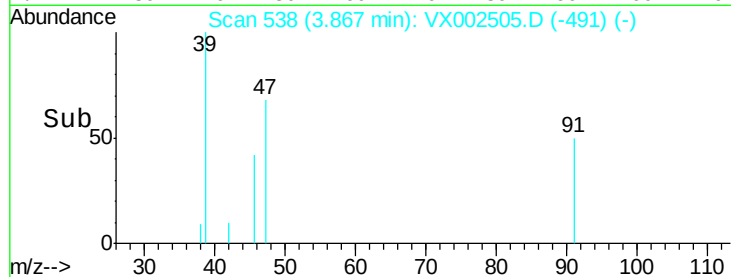
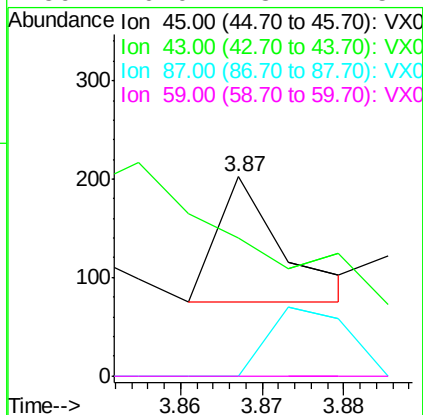
Instrument :

MSVOA_X

ClientSampleId :



Tot Ion:	45	Resp:	72
Ion	Ratio	Lower	Upper
45	100		
43	11.8	46.8	70.2#
87	0.0	20.2	30.4#
59	0.0	8.7	13.1#



#25

2-Butanone

Concen: 2.80 ug/l

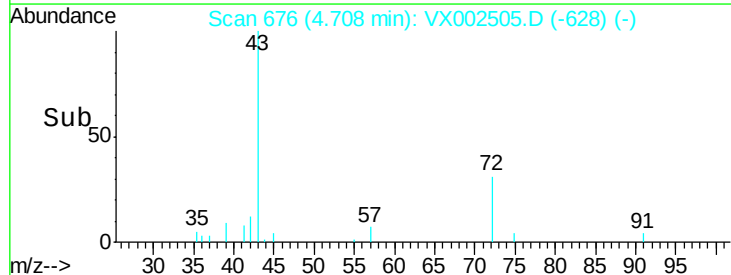
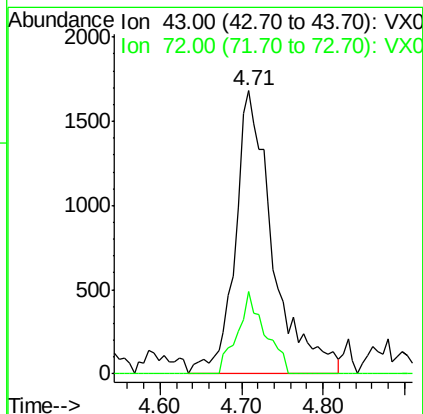
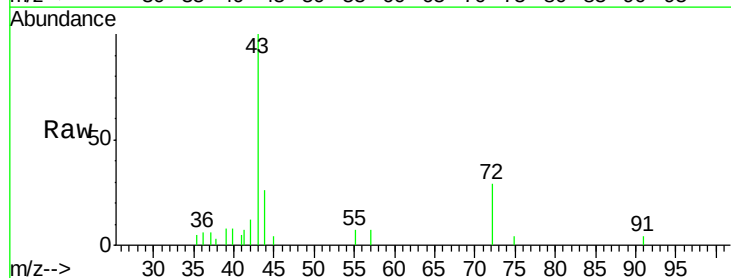
RT: 4.71 min Scan# 676

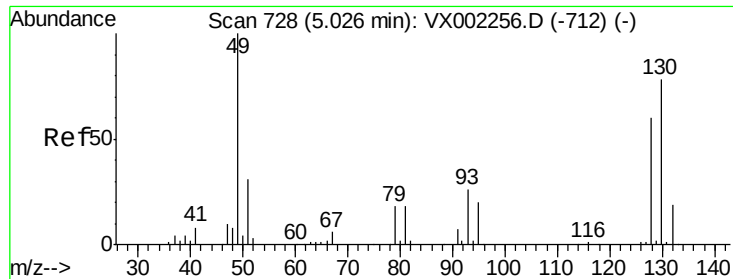
Delta R.T. -0.01 min

Lab File: VX002505.D

Acq: 13 Jun 2018 12:36

Tgt Ion:	43	Resp:	5392
Ion	Ratio	Lower	Upper
43	100		
72	29.0	18.5	27.7#



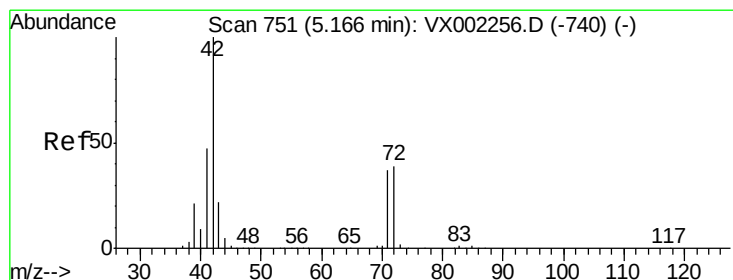
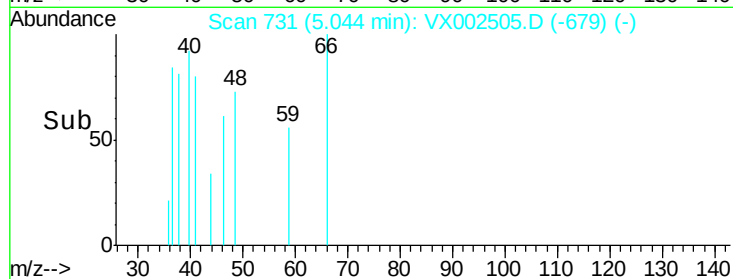
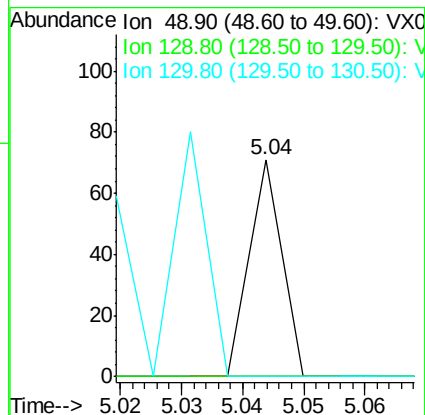
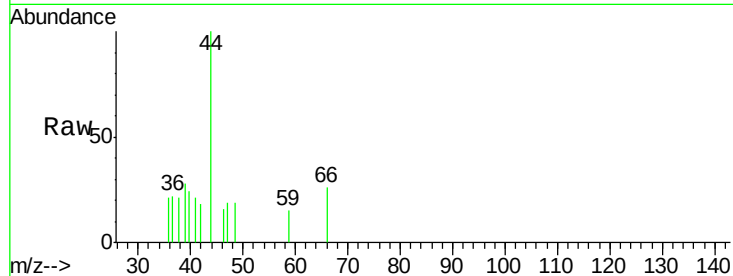


#28

Bromochloromethane
 Concen: Below Cal
 RT: 5.04 min Scan# 731
 Delta R.T. 0.02 min
 Lab File: VX002505.D
 Acq: 13 Jun 2018 12:36

Instrument :
 MSVOA_X
 ClientSampleId :

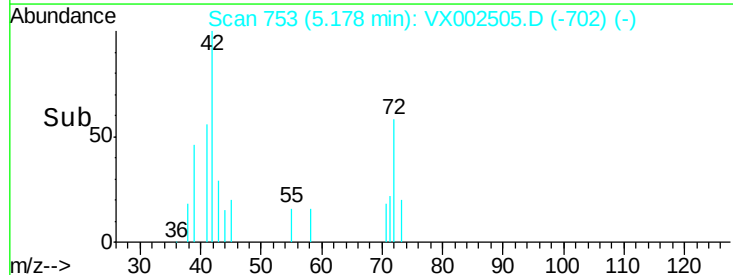
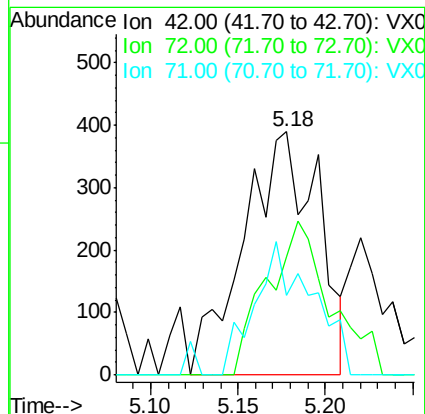
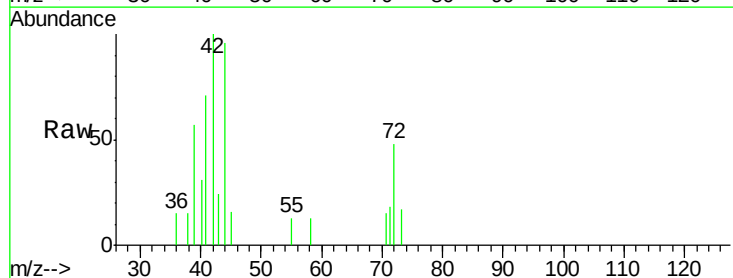
Tot Ion: 49 Resp: 26
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 4.2
 130 0.0 61.2 91.8#

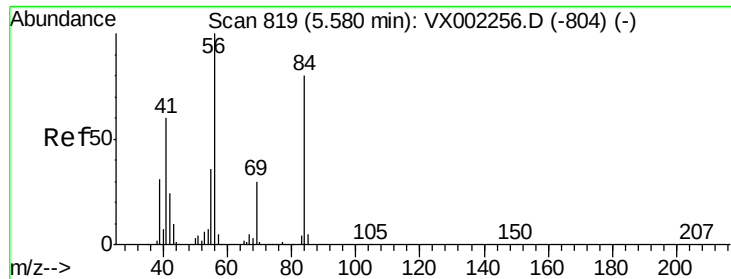


#29

Tetrahydrofuran
 Concen: 0.93 ug/l
 RT: 5.18 min Scan# 753
 Delta R.T. 0.01 min
 Lab File: VX002505.D
 Acq: 13 Jun 2018 12:36

Tgt Ion: 42 Resp: 1156
 Ion Ratio Lower Upper
 42 100
 72 54.0 32.0 48.0#
 71 42.1 30.1 45.1

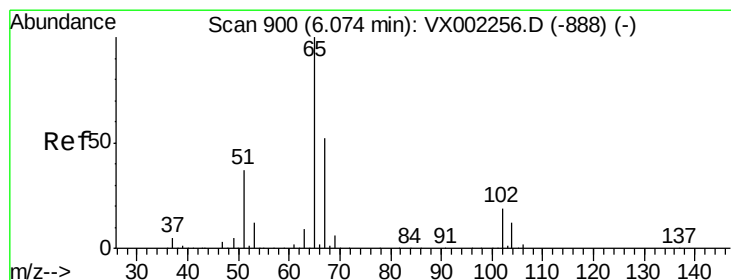
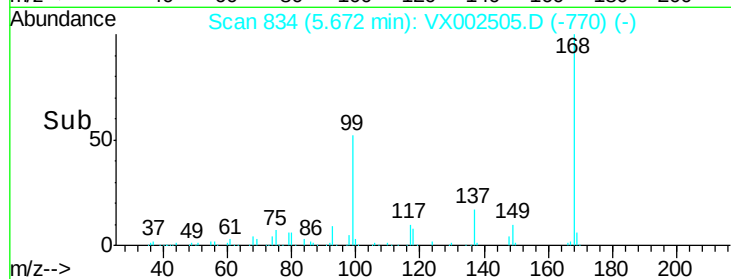
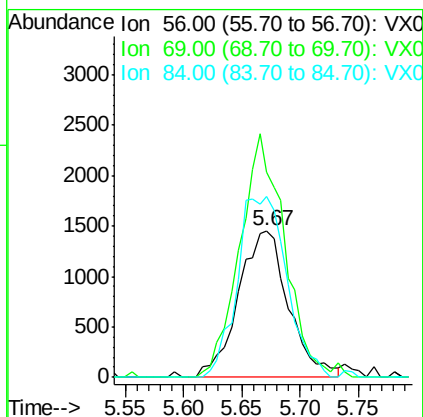
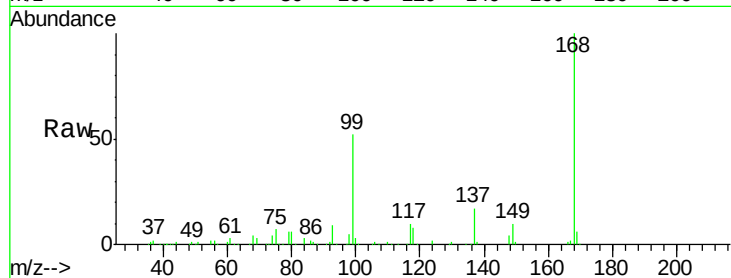




#31
Cyclohexane
Concen: 1.23 ug/l
RT: 5.67 min Scan# 834
Delta R.T. 0.09 min
Lab File: VX002505.D
Acq: 13 Jun 2018 12:36

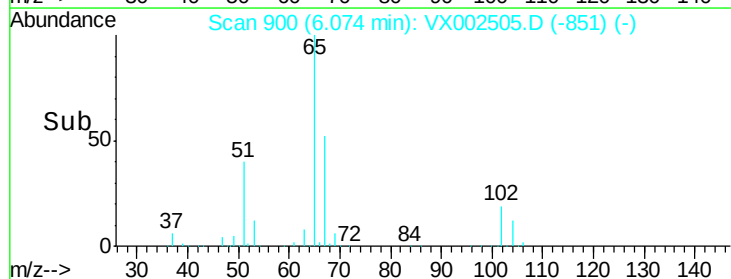
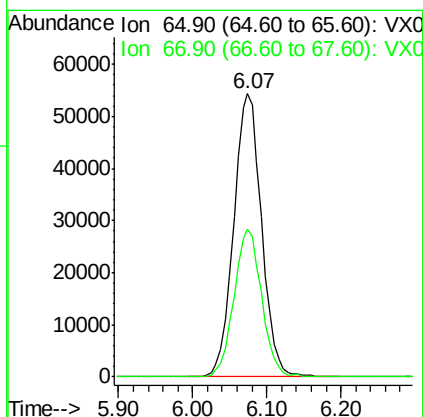
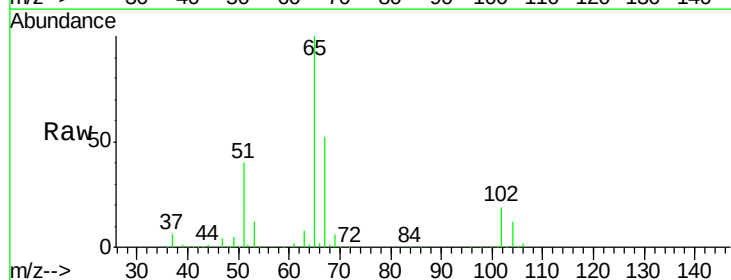
Instrument :
MSVOA_X
ClientSampleId :

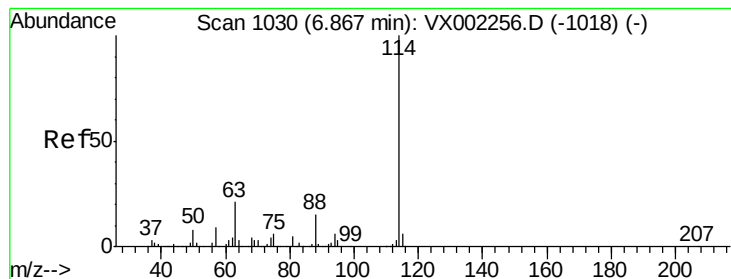
Tot Ion: 56 Resp: 4376
Ion Ratio Lower Upper
56 100
69 139.8 23.7 35.5#
84 122.8 64.1 96.1#



#33
1,2-Dichloroethane-d4
Concen: 50.76 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.00 min
Lab File: VX002505.D
Acq: 13 Jun 2018 12:36

Tgt Ion: 65 Resp: 142411
Ion Ratio Lower Upper
65 100
67 51.6 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: VX002505.D

Acq: 13 Jun 2018 12:36

Instrument :

MSVOA_X

ClientSampleId :

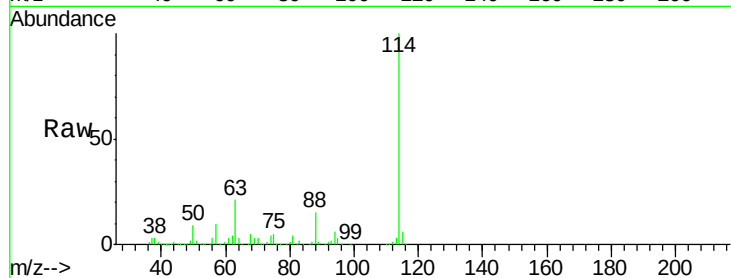
Tot Ion:114 Resp: 290013

Ion Ratio Lower Upper

114 100

63 21.3 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

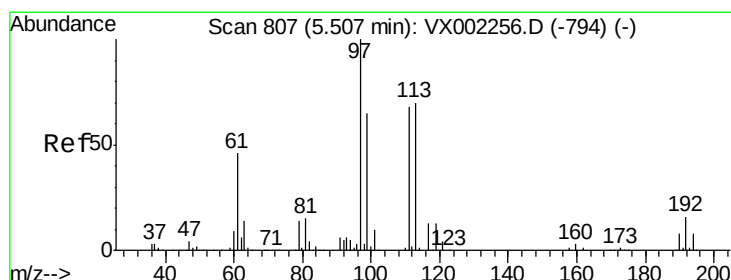
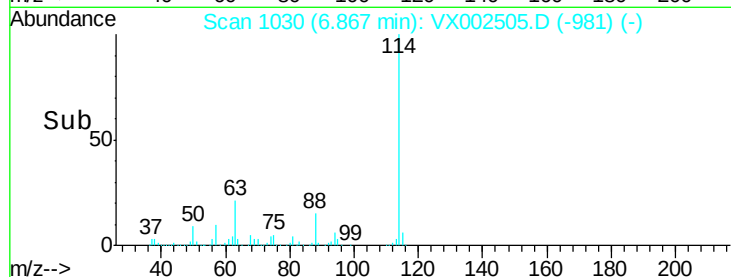
50000

0

6.87

6.80 6.90 7.00

Time-->



#35

Dibromofluoromethane

Concen: 46.46 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002505.D

Acq: 13 Jun 2018 12:36

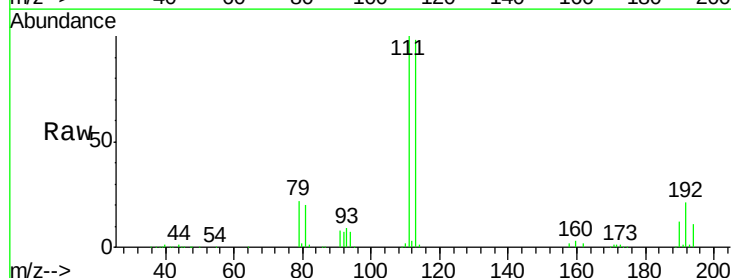
Tgt Ion:113 Resp: 105950

Ion Ratio Lower Upper

113 100

111 102.8 81.4 122.0

192 23.1 19.1 28.7



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

50000

40000

30000

20000

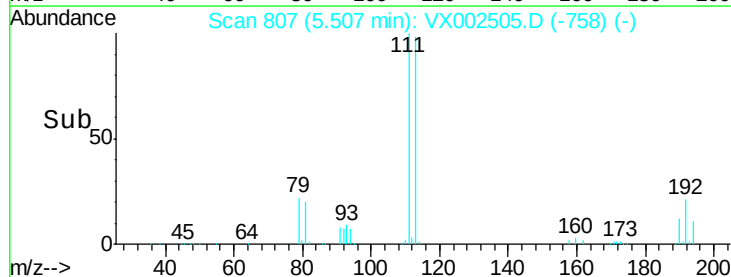
10000

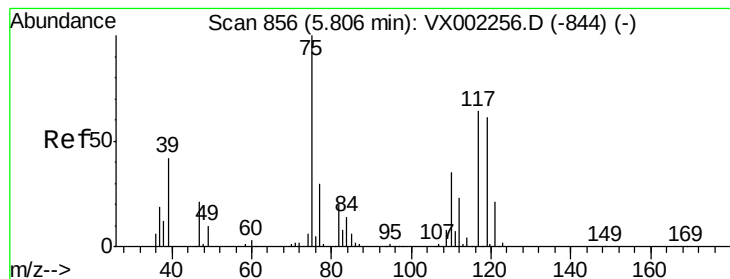
0

5.51

5.40 5.50 5.60

Time-->





#36

1,1-Dichloropropene

Concen: 4.64 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.14 min

Lab File: VX002505.D

Acq: 13 Jun 2018 12:36

Instrument :

MSVOA_X

ClientSampleId :

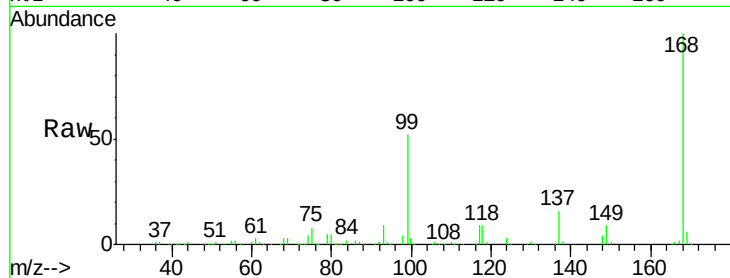
Tot Ion: 75 Resp: 14137

Ion Ratio Lower Upper

75 100

110 11.0 18.1 54.4#

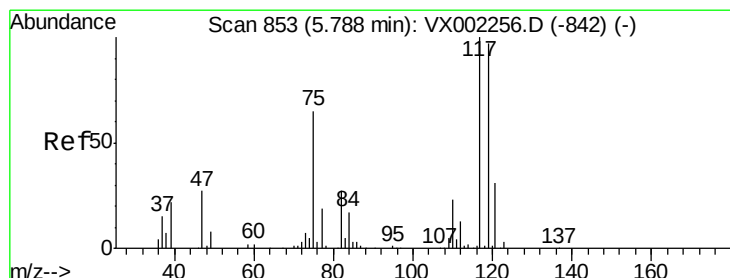
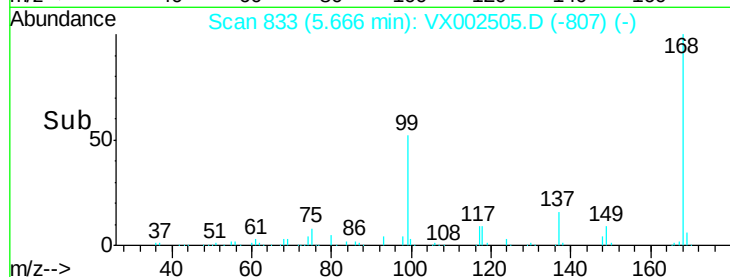
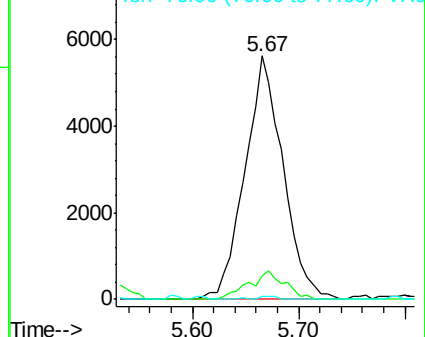
77 0.5 24.3 36.5#



Abundance Ion 74.90 (74.60 to 75.60): VX002256.D (-844) (-)

Ion 109.90 (109.60 to 110.60): VX002256.D (-844) (-)

Ion 76.90 (76.60 to 77.60): VX002256.D (-844) (-)



#38

Carbon Tetrachloride

Concen: 5.95 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX002505.D

Acq: 13 Jun 2018 12:36

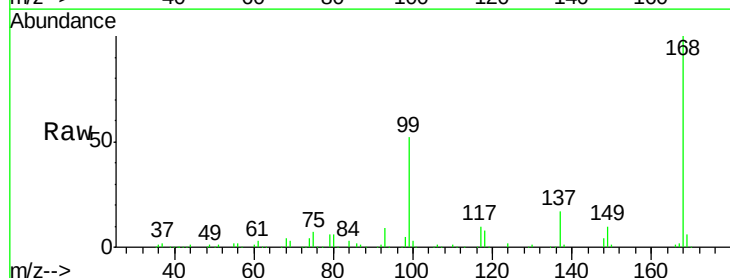
Tgt Ion: 117 Resp: 18978

Ion Ratio Lower Upper

117 100

119 5.0 77.4 116.0#

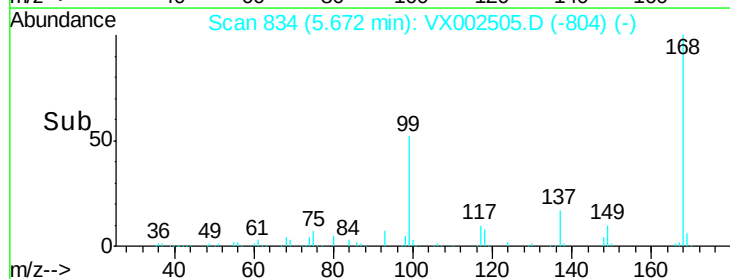
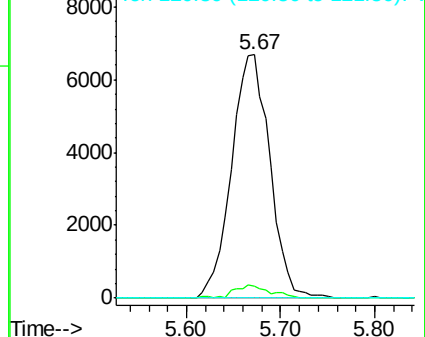
121 0.0 24.4 36.6#

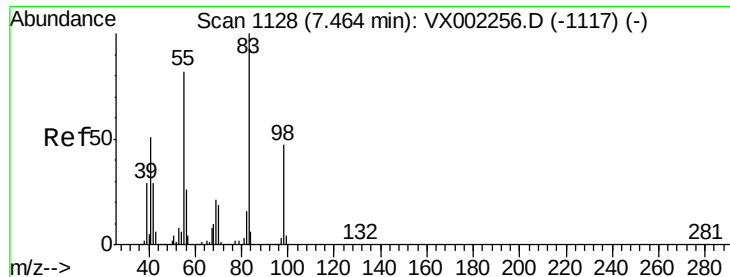


Abundance Ion 116.80 (116.50 to 117.50): VX002256.D (-842) (-)

Ion 118.80 (118.50 to 119.50): VX002256.D (-842) (-)

Ion 120.80 (120.50 to 121.50): VX002256.D (-842) (-)

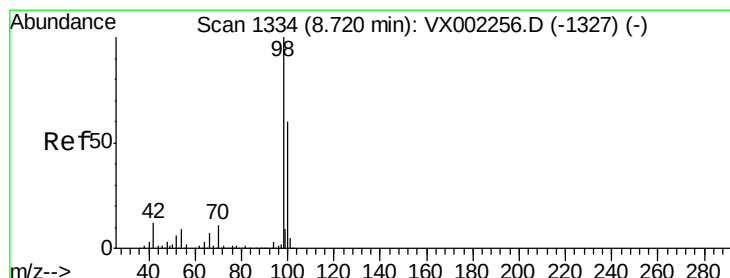
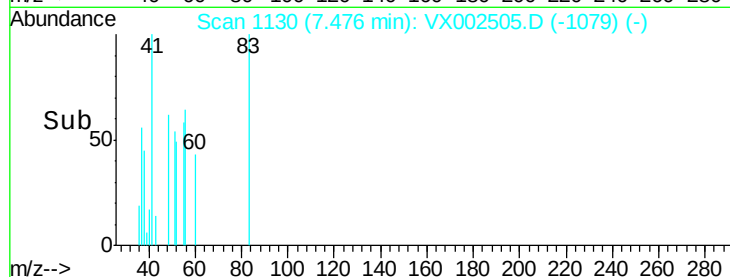
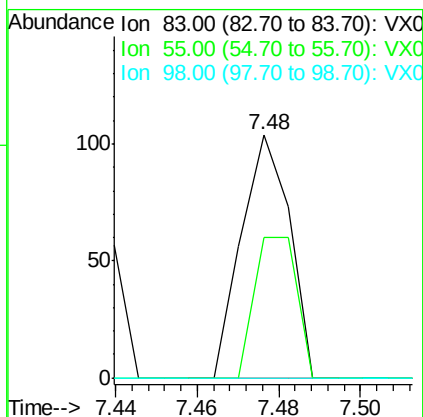
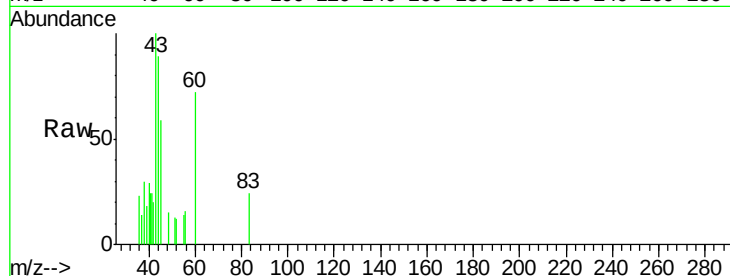




#39
Methylvlcyclohexane
Concen: 0.28 ug/l
RT: 7.48 min Scan# 1130
Delta R.T. 0.01 min
Lab File: VX002505.D
Acq: 13 Jun 2018 12:36

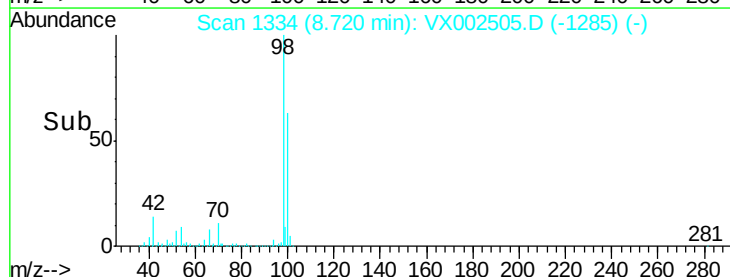
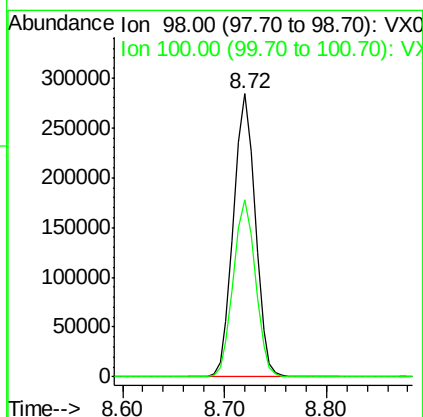
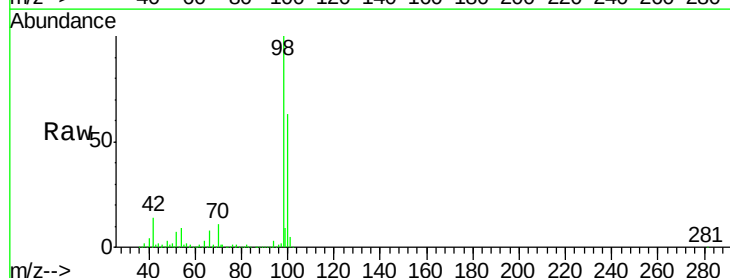
Instrument :
MSVOA_X
ClientSampleId :

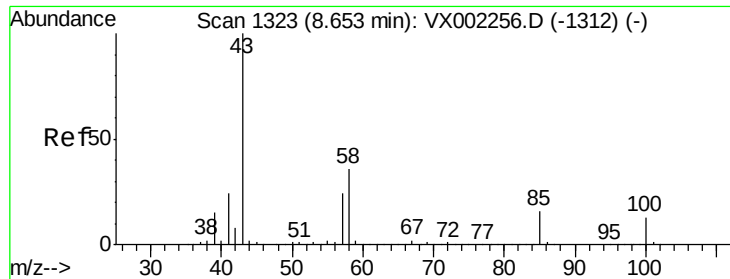
Tot Ion	83	Resp	85
Ion Ratio	Lower	Upper	
83	100		
55	57.7	65.4	98.0#
98	0.0	37.4	56.0#



#50
Toluene-d8
Concen: 48.28 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX002505.D
Acq: 13 Jun 2018 12:36

Tgt Ion	98	Resp	422011
Ion Ratio	Lower	Upper	
98	100		
100	63.0	50.9	76.3





#51

4-Methyl-2-Pentanone

Concen: 0.63 ug/l

RT: 8.65 min Scan# 1323

Delta R.T. -0.00 min

Lab File: VX002505.D

Acq: 13 Jun 2018 12:36

Instrument :

MSVOA_X

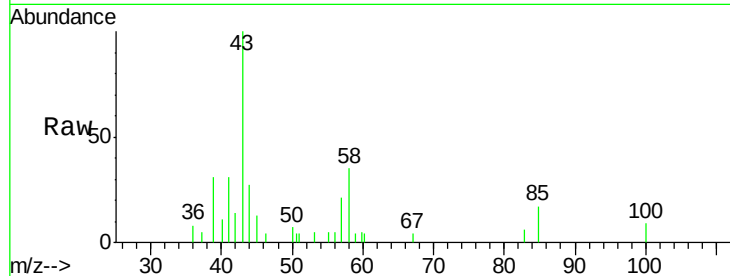
ClientSampleId :

Tot Ion: 43 Resp: 2426

Ion Ratio Lower Upper

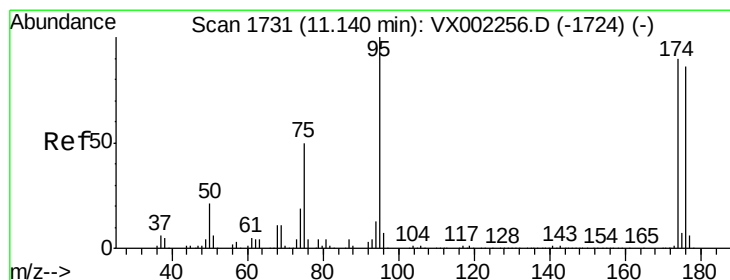
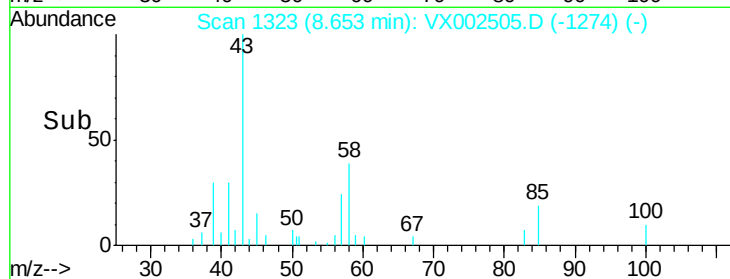
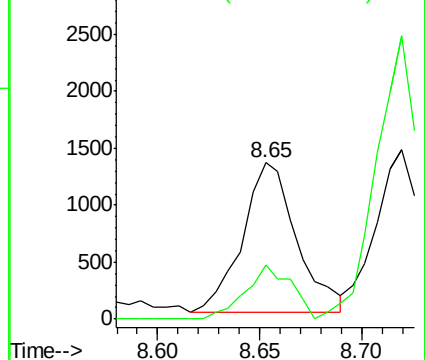
43 100

58 30.0 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: 43.94 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002505.D

Acq: 13 Jun 2018 12:36

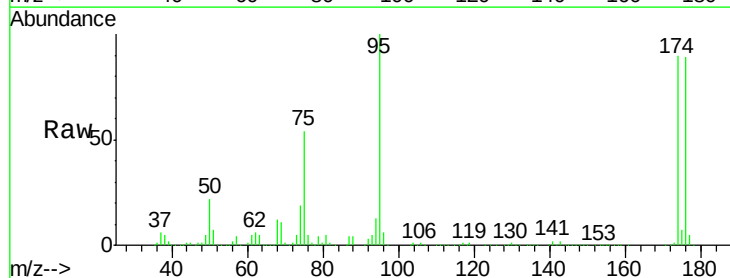
Tgt Ion: 95 Resp: 148127

Ion Ratio Lower Upper

95 100

174 94.1 0.0 187.4

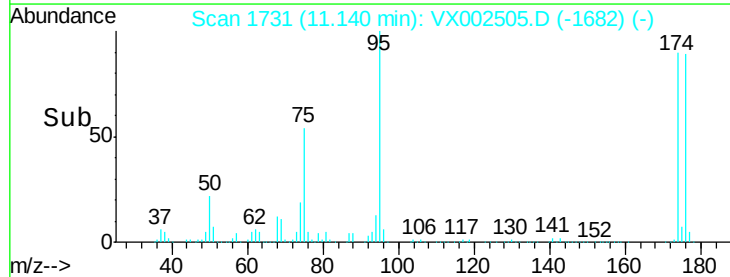
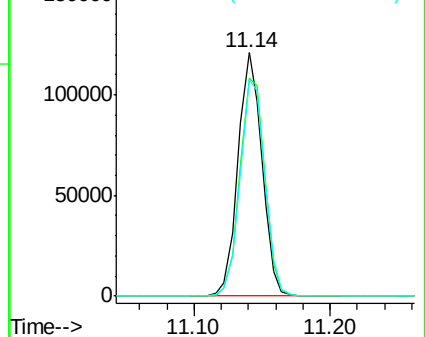
176 91.9 0.0 181.0

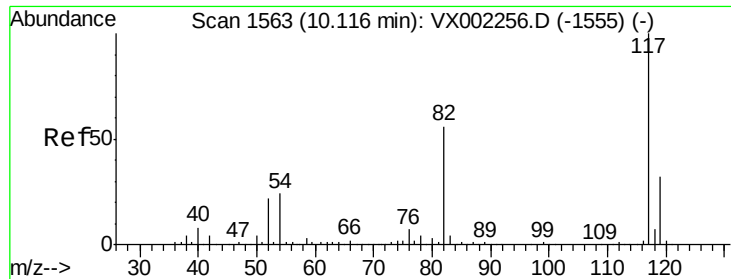


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

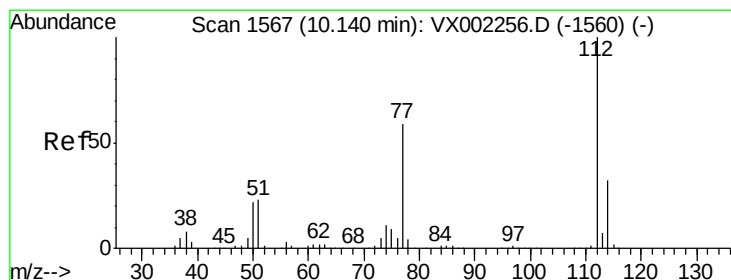
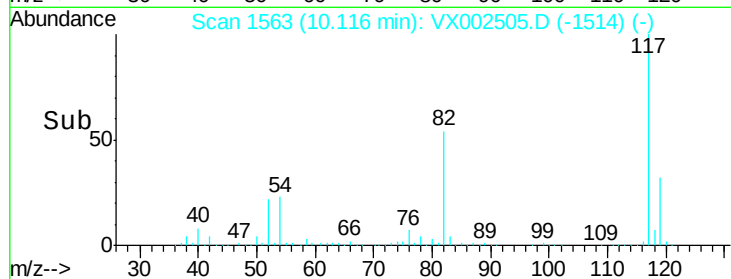
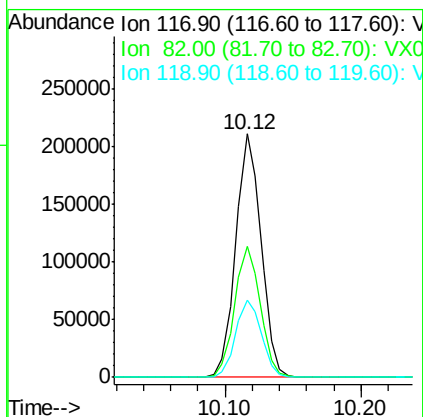
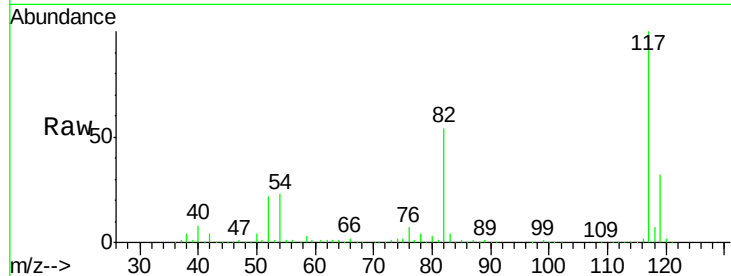




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002505.D
Acq: 13 Jun 2018 12:36

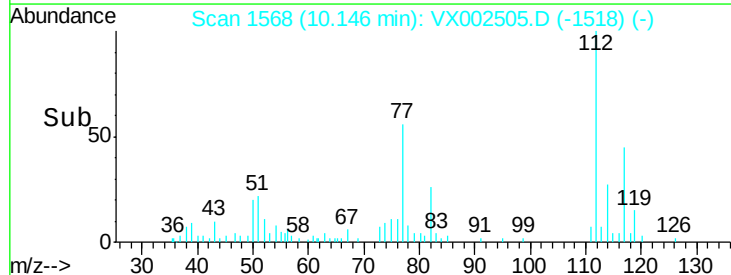
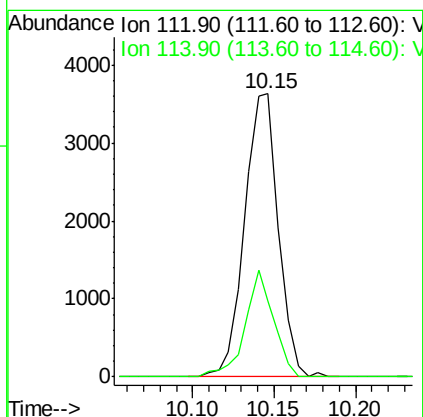
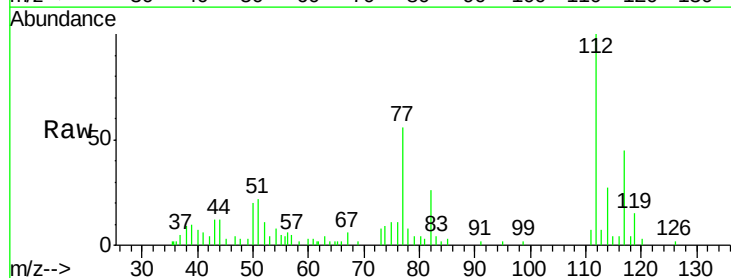
Instrument :
MSVOA_X
ClientSampleId :

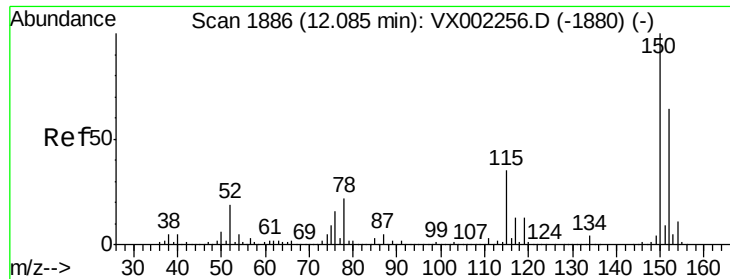
Tot Ion:117 Resp: 274424
Ion Ratio Lower Upper
117 100
82 53.9 45.0 67.4
119 31.7 25.8 38.6



#65
Chlorobenzene
Concen: 0.77 ug/l
RT: 10.15 min Scan# 1568
Delta R.T. 0.01 min
Lab File: VX002505.D
Acq: 13 Jun 2018 12:36

Tgt Ion:112 Resp: 5229
Ion Ratio Lower Upper
112 100
114 27.0 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: VX002505.D

Acq: 13 Jun 2018 12:36

Instrument :

MSVOA_X

ClientSampled :

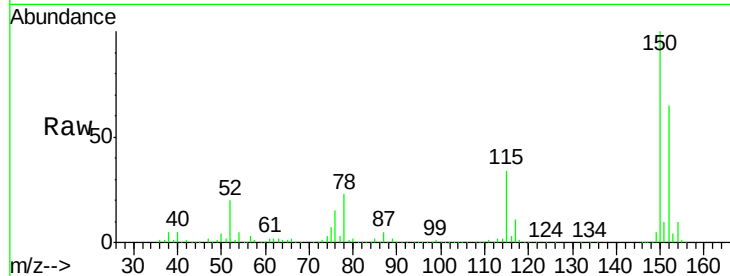
Tot Ion:152 Resp: 155834

Ion Ratio Lower Upper

152 100

115 55.5 40.1 120.2

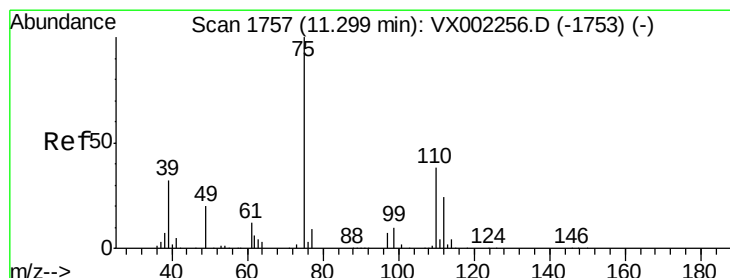
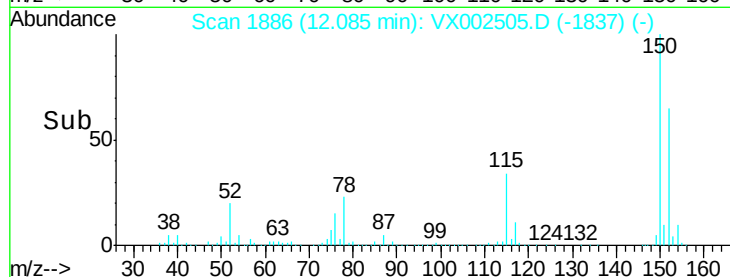
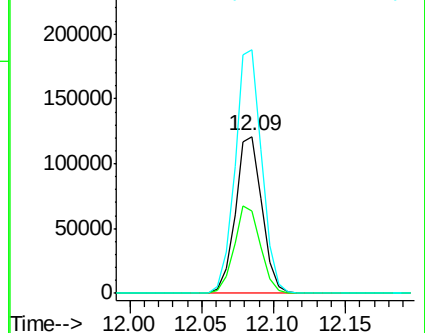
150 156.3 0.0 347.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 23.80 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002505.D

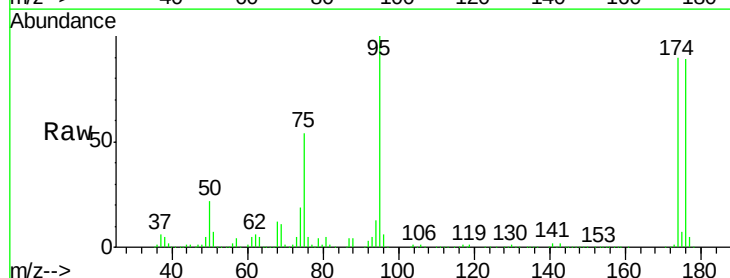
Acq: 13 Jun 2018 12:36

Tgt Ion: 75 Resp: 81385

Ion Ratio Lower Upper

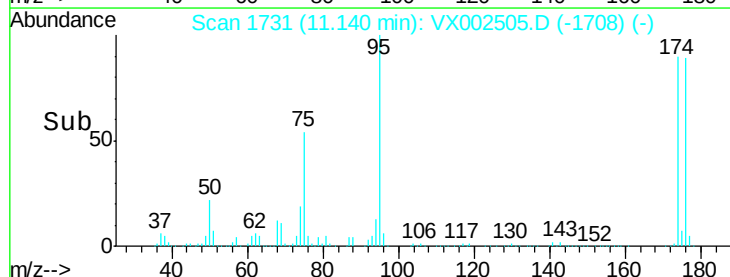
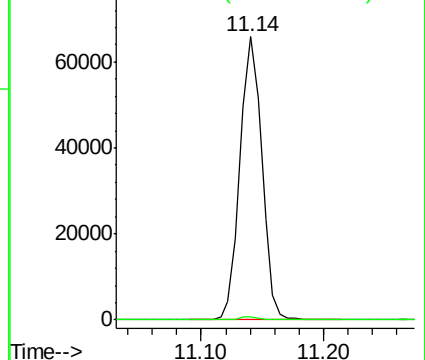
75 100

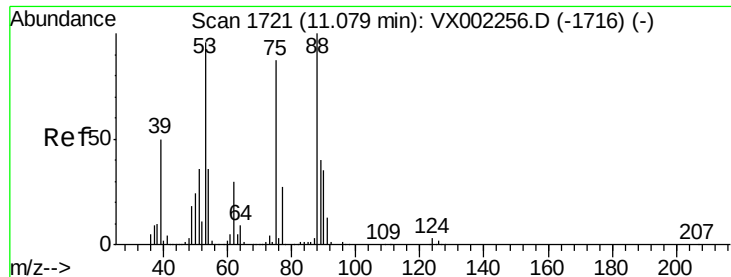
77 1.3 22.8 68.3#



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: 83.43 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002505.D

Acq: 13 Jun 2018 12:36

Instrument :

MSVOA_X

ClientSampled :

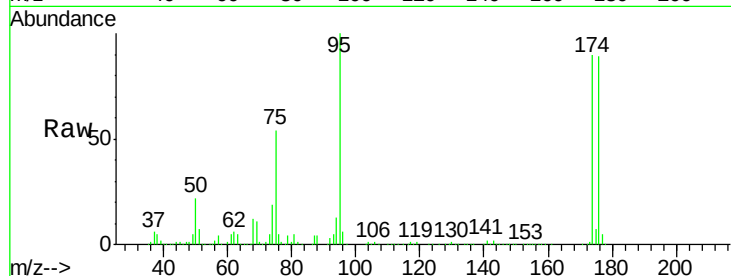
Tot Ion: 75 Resp: 81385

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

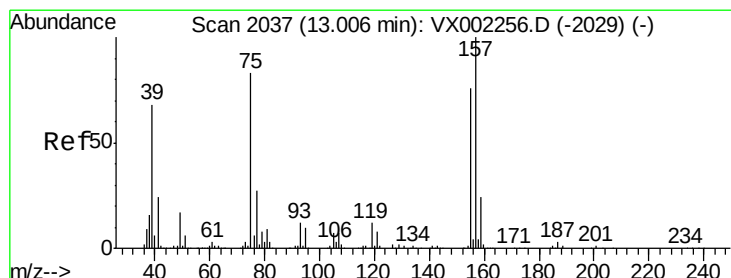
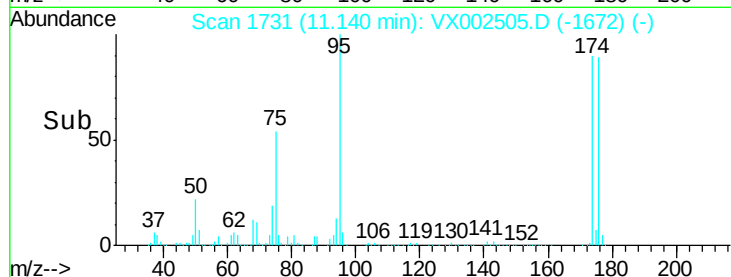
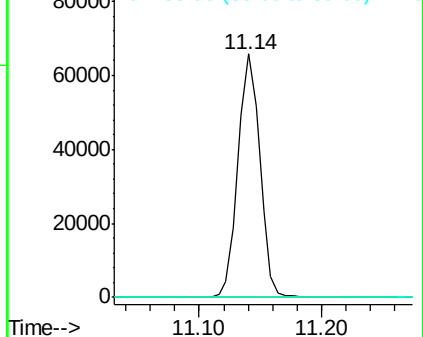
89 0.0 38.2 57.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.29 ug/l

RT: 12.98 min Scan# 2033

Delta R.T. -0.02 min

Lab File: VX002505.D

Acq: 13 Jun 2018 12:36

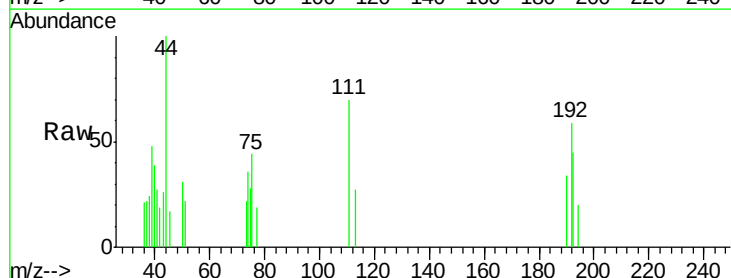
Tgt Ion: 75 Resp: 214

Ion Ratio Lower Upper

75 100

155 0.0 45.8 137.4#

157 0.0 60.1 180.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

