

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061318\
 Data File : VX002512.D
 Acq On : 13 Jun 2018 16:05
 Operator : JC/MD
 Sample : PB110148ZHE#13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 14 01:45:43 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	190697	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	278417	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	262533	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	150642	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	137053	50.28	ug/l	0.00
Spiked Amount			Recovery	=	100.56%	
35) Dibromofluoromethane	5.51	113	102979	47.03	ug/l	0.00
Spiked Amount			Recovery	=	94.06%	
50) Toluene-d8	8.72	98	406679	48.46	ug/l	0.00
Spiked Amount			Recovery	=	96.92%	
62) 4-Bromofluorobenzene	11.14	95	142715	44.10	ug/l	0.00
Spiked Amount			Recovery	=	88.20%	

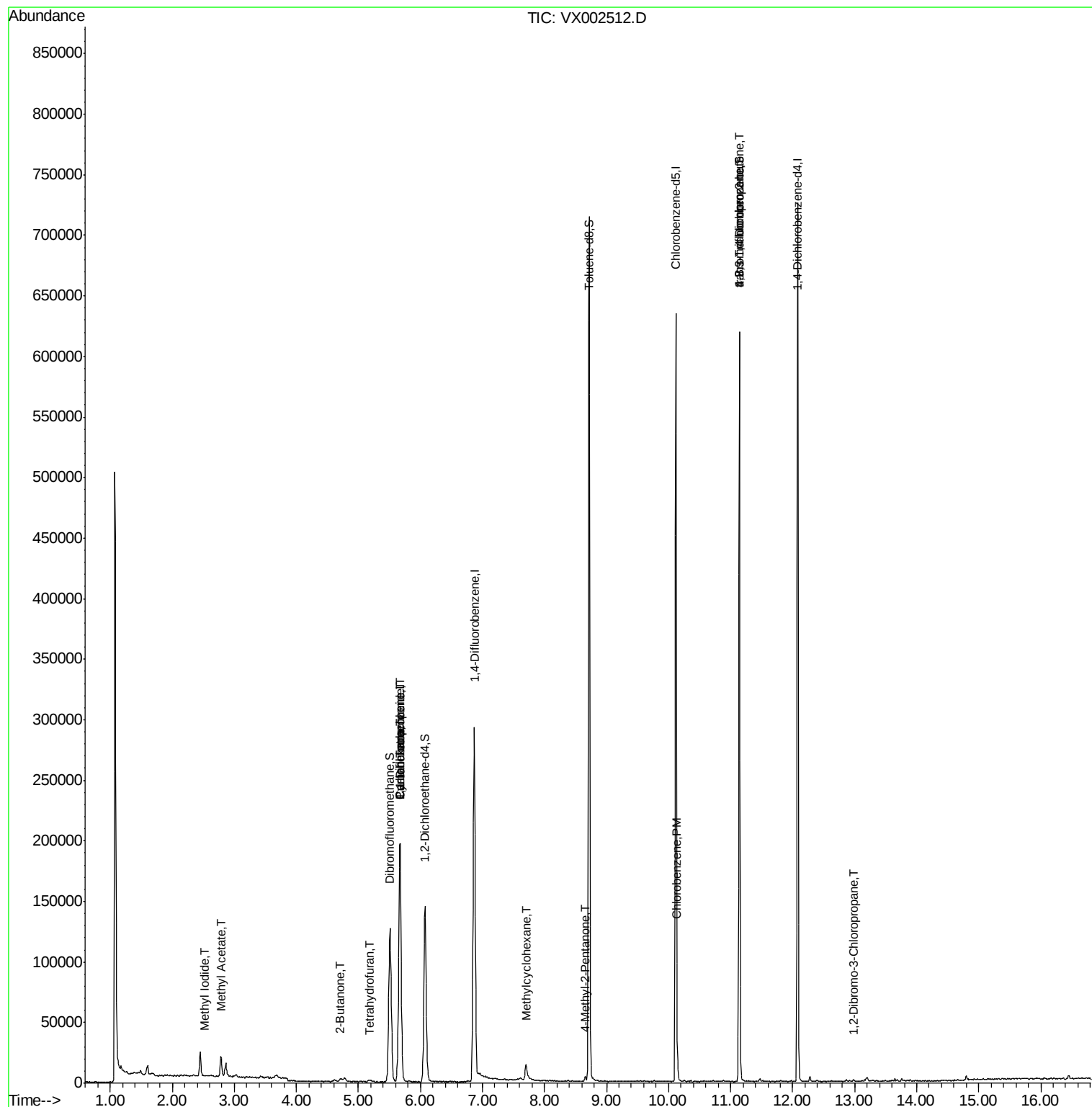
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	443	Below Cal	#	87
5) Bromomethane	1.65	94	831	Below Cal		99
8) Diethyl Ether	2.19	74	71	Below Cal	#	1
10) Methyl Iodide	2.53	142	714	0.25	ug/l	80
11) Tert butyl alcohol	3.03	59	1455	Below Cal		97
13) Acrolein	2.29	56	221	Below Cal	#	73
15) Acrylonitrile	3.14	53	234	Below Cal	#	54
16) Acetone	2.45	43	21466	Below Cal		99
18) Methyl Acetate	2.78	43	20770	5.18	ug/l	97
19) Methyl tert-butyl Ether	3.25	73	33	Below Cal	#	30
20) Methylene Chloride	2.86	84	4765	Below Cal		93
22) Diisopropyl ether	3.89	45	66	Below Cal	#	41
25) 2-Butanone	4.71	43	5116	2.74	ug/l	97
28) Bromochloromethane	5.04	49	52	Below Cal	#	13
29) Tetrahydrofuran	5.18	42	1476	1.22	ug/l	87
31) Cyclohexane	5.67	56	4493	1.30	ug/l	21
36) 1,1-Dichloropropene	5.67	75	13561	4.63	ug/l	46
38) Carbon Tetrachloride	5.67	117	18039	5.89	ug/l	15
39) Methylcyclohexane	7.71	83	65	0.28	ug/l	16
51) 4-Methyl-2-Pentanone	8.65	43	2243	0.60	ug/l	86
65) Chlorobenzene	10.14	112	4977	0.76	ug/l	96
76) 1,2,3-Trichloropropane	11.14	75	78053	23.61	ug/l	33
81) trans-1,4-Dichloro-2-buten	11.14	75	78053	82.77	ug/l	7
92) 1,2-Dibromo-3-Chloropropan	12.99	75	227	0.31	ug/l	1

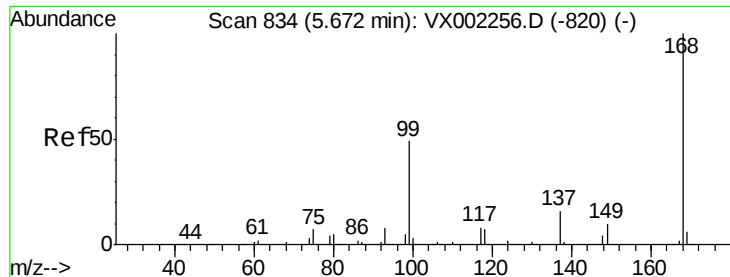
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
MSVOA_X
ClientSampleId :

Quant Time: Jun 14 01:45:43 2018
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: VX002512.D

Acq: 13 Jun 2018 16:05

Instrument :

MSVOA_X

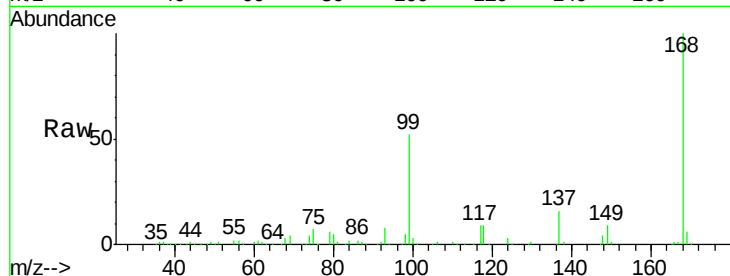
ClientSampleId :

Tot Ion:168 Resp: 190697

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

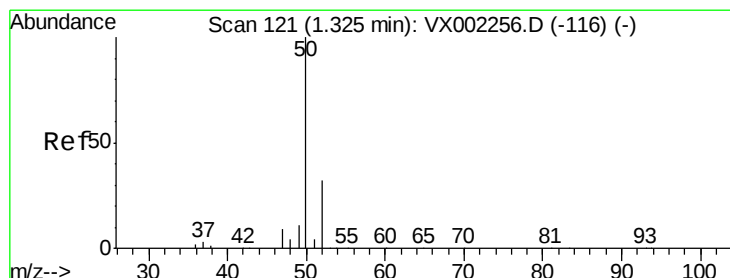
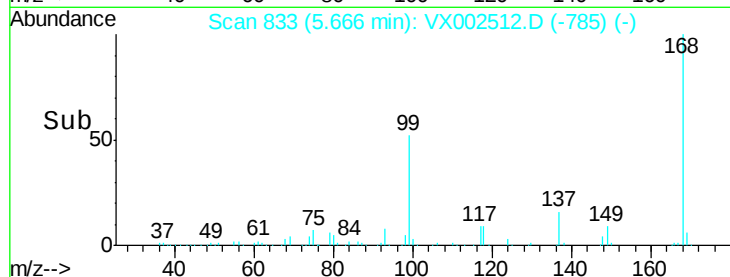
40000

20000

0

Time-->

5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002512.D

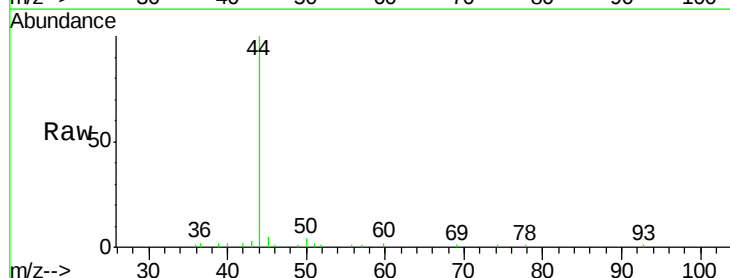
Acq: 13 Jun 2018 16:05

Tgt Ion: 50 Resp: 443

Ion Ratio Lower Upper

50 100

52 25.0 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

250

200

150

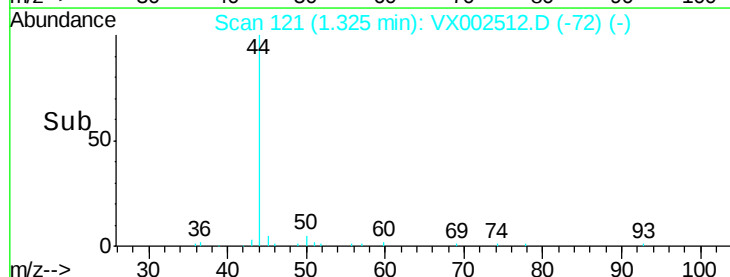
100

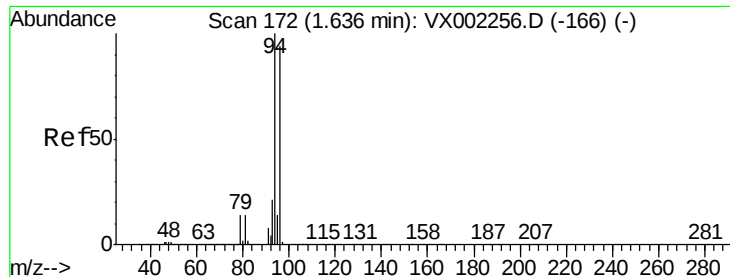
50

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002512.D

Acq: 13 Jun 2018 16:05

Instrument :

MSVOA_X

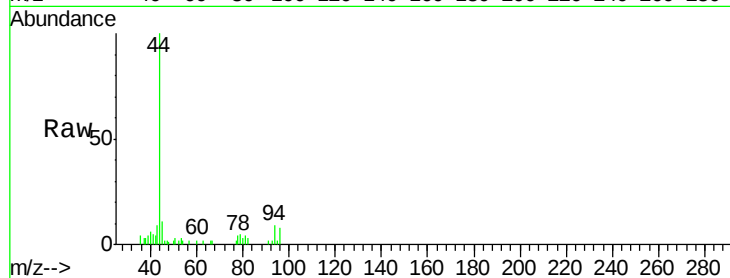
ClientSampled :

Tot Ion: 94 Resp: 831

Ion Ratio Lower Upper

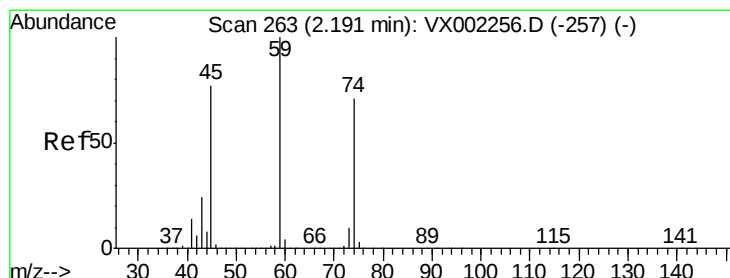
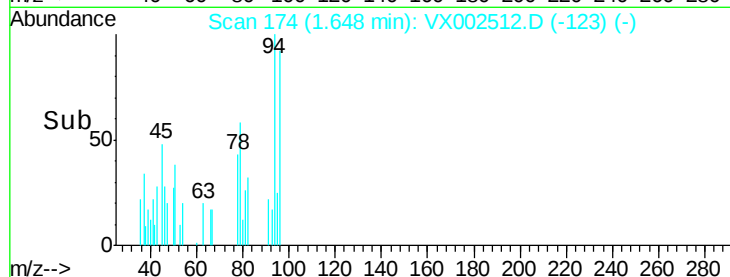
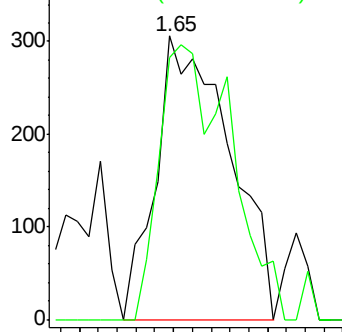
94 100

96 92.5 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#8

Diethyl Ether

Concen: Below Cal

RT: 2.19 min Scan# 263

Delta R.T. 0.00 min

Lab File: VX002512.D

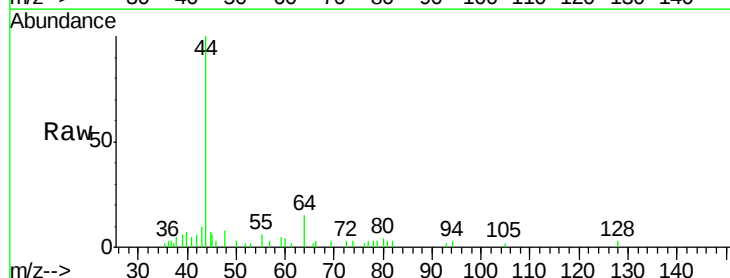
Acq: 13 Jun 2018 16:05

Tgt Ion: 74 Resp: 71

Ion Ratio Lower Upper

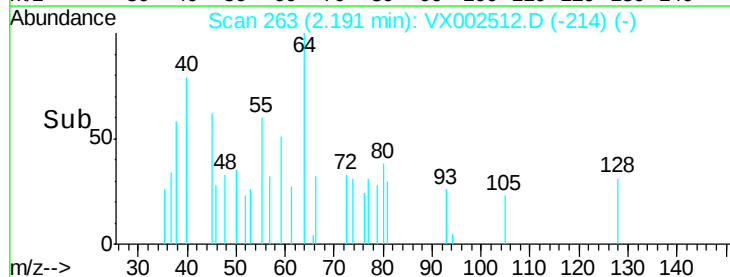
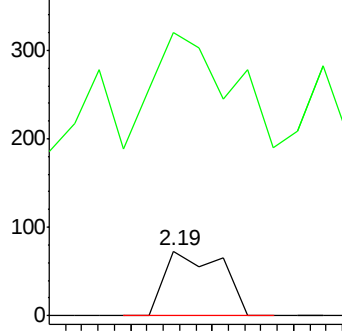
74 100

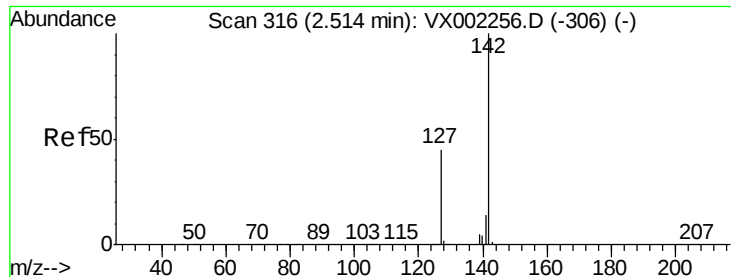
45 239.4 53.1 159.4#



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

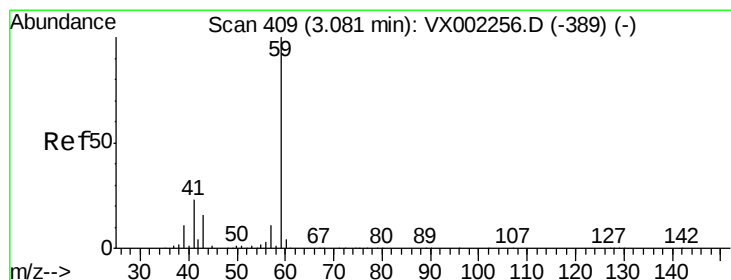
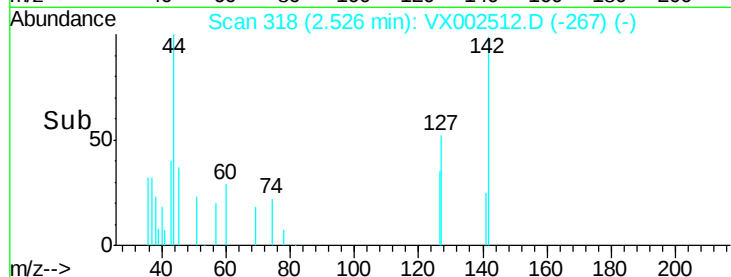
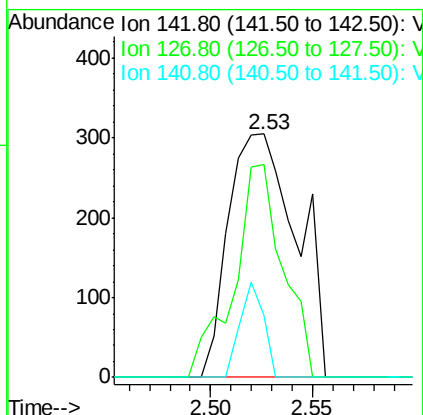
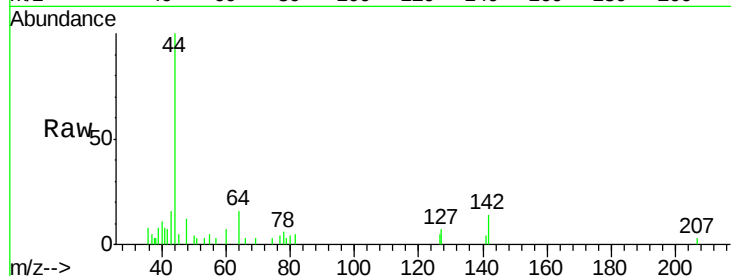




#10
Methyl Iodide
Concen: 0.25 ug/l
RT: 2.53 min Scan# 318
Delta R.T. 0.01 min
Lab File: VX002512.D
Acq: 13 Jun 2018 16:05

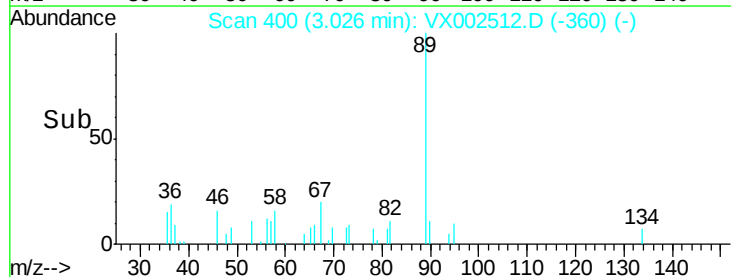
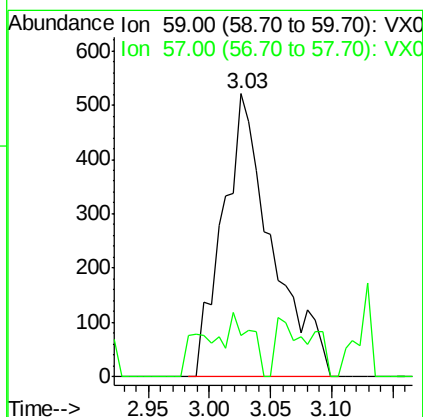
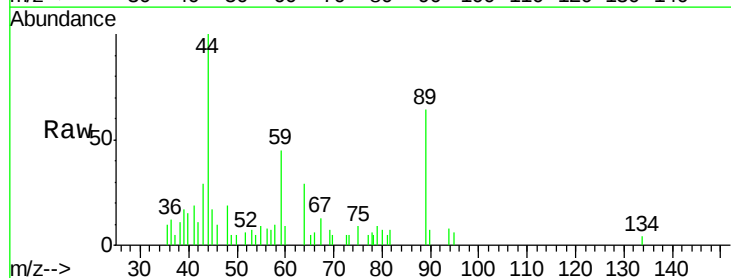
Instrument :
MSVOA_X
ClientSampleId :

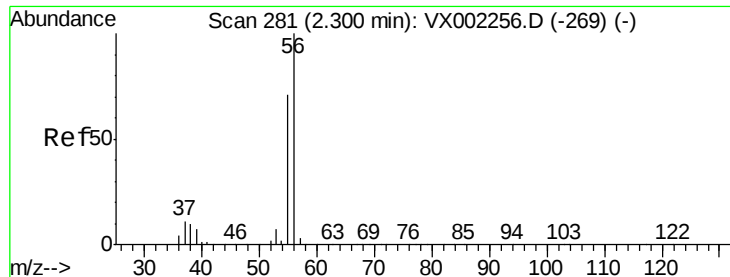
Tot Ion:142 Resp: 714
Ion Ratio Lower Upper
142 100
127 62.5 36.6 55.0#
141 13.3 11.3 16.9



#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.03 min Scan# 400
Delta R.T. -0.05 min
Lab File: VX002512.D
Acq: 13 Jun 2018 16:05

Tgt Ion: 59 Resp: 1455
Ion Ratio Lower Upper
59 100
57 9.1 8.2 12.2

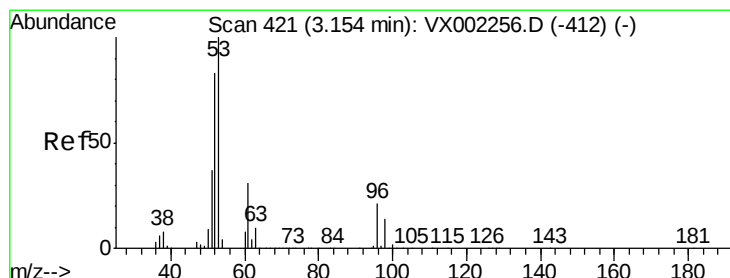
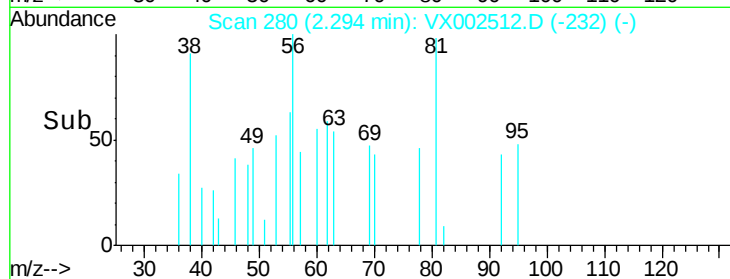
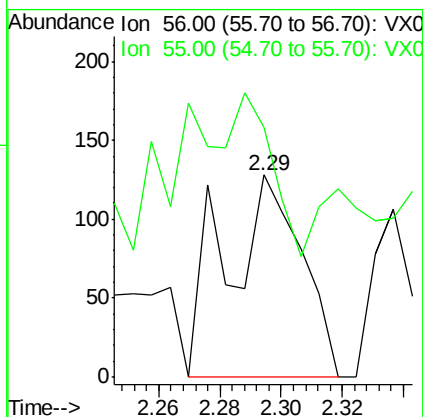
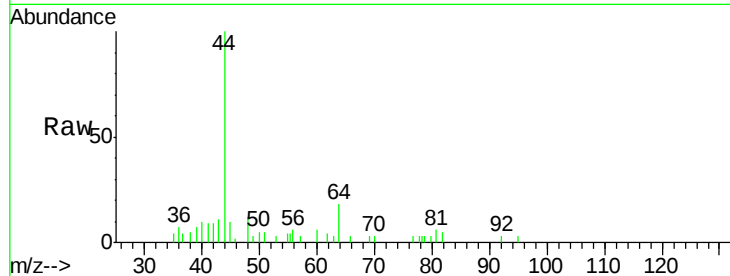




#13
Acrolein
Concen: Below Cal
RT: 2.29 min Scan# 280
Delta R.T. -0.01 min
Lab File: VX002512.D
Acq: 13 Jun 2018 16:05

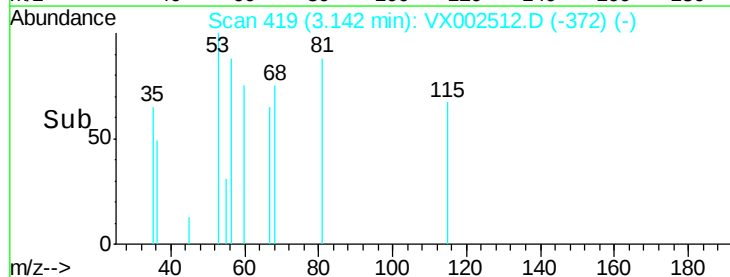
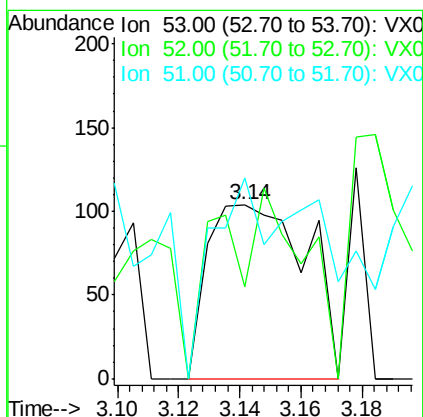
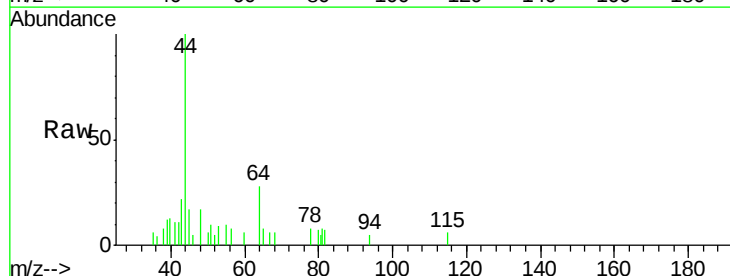
Instrument :
MSVOA_X
ClientSampled :

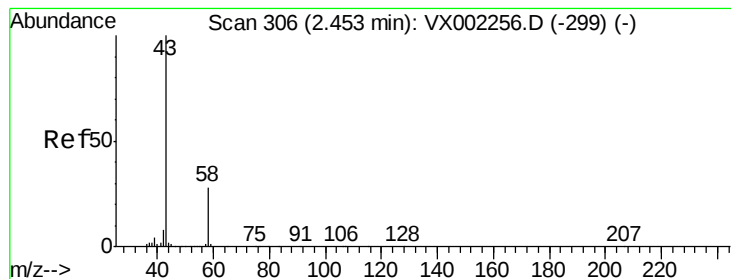
Tot Ion: 56 Resp: 221
Ion Ratio Lower Upper
56 100
55 93.7 57.0 85.4#



#15
Acrylonitrile
Concen: Below Cal
RT: 3.14 min Scan# 419
Delta R.T. -0.01 min
Lab File: VX002512.D
Acq: 13 Jun 2018 16:05

Tgt Ion: 53 Resp: 234
Ion Ratio Lower Upper
53 100
52 38.5 66.7 100.1#
51 59.4 29.9 44.9#





#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002512.D

Acq: 13 Jun 2018 16:05

Instrument :

MSVOA_X

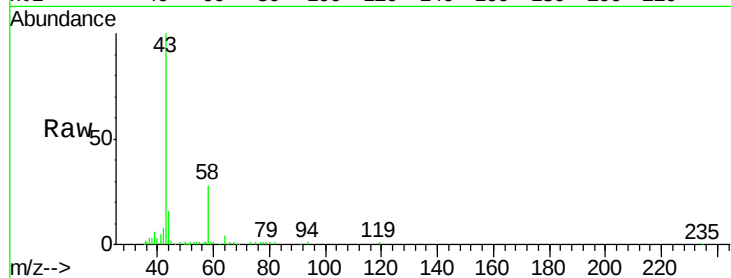
ClientSampleId :

Tot Ion: 43 Resp: 21466

Ion Ratio Lower Upper

43 100

58 27.9 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

15000

10000

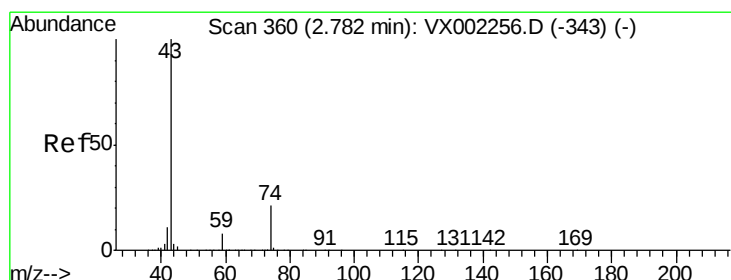
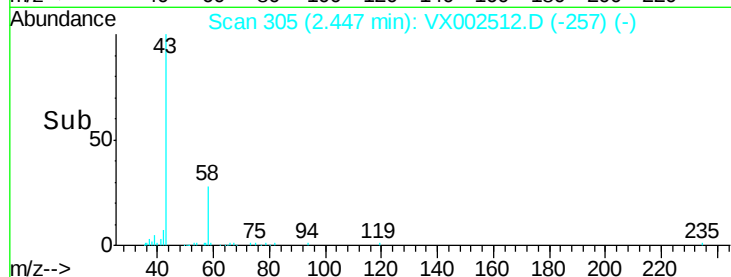
5000

0

2.45

2.35 2.40 2.45 2.50 2.55

Time-->



#18

Methyl Acetate

Concen: 5.18 ug/l

RT: 2.78 min Scan# 360

Delta R.T. -0.00 min

Lab File: VX002512.D

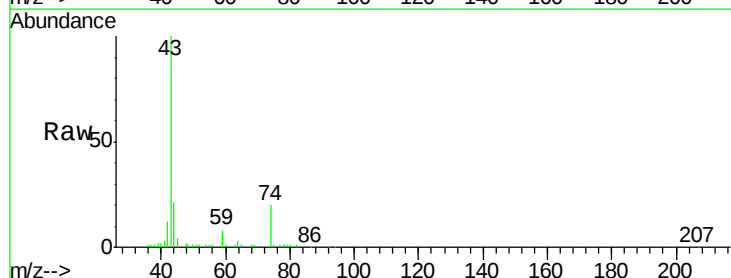
Acq: 13 Jun 2018 16:05

Tgt Ion: 43 Resp: 20770

Ion Ratio Lower Upper

43 100

74 22.4 16.7 25.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

10000

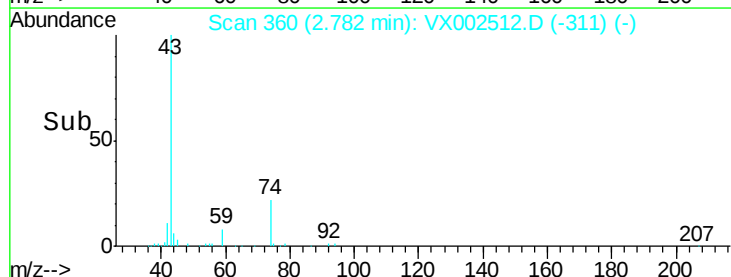
5000

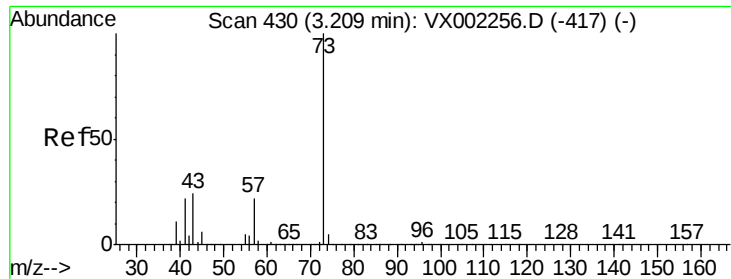
0

2.78

2.70 2.75 2.80 2.85

Time-->

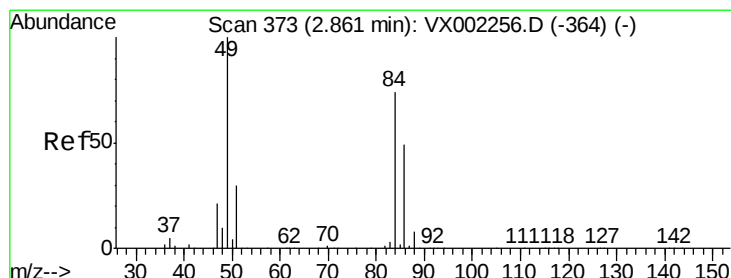
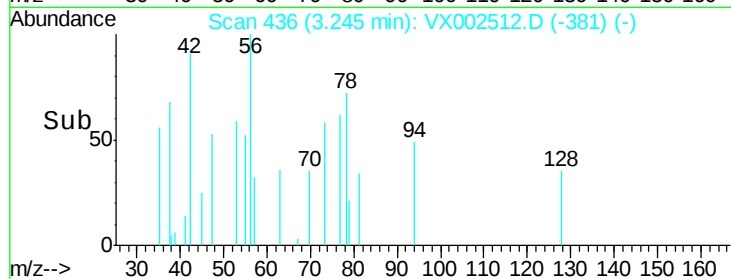
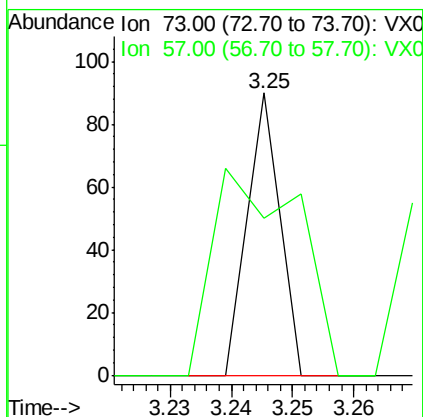
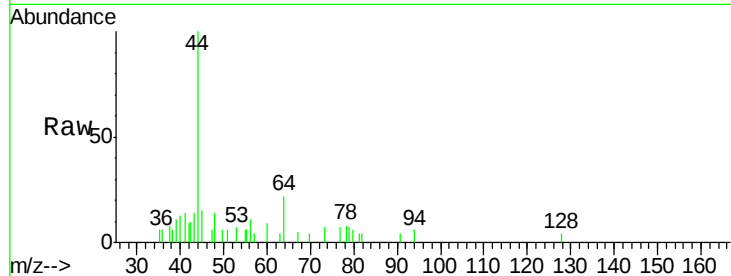




#19
Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.25 min Scan# 436
Delta R.T. 0.04 min
Lab File: VX002512.D
Acq: 13 Jun 2018 16:05

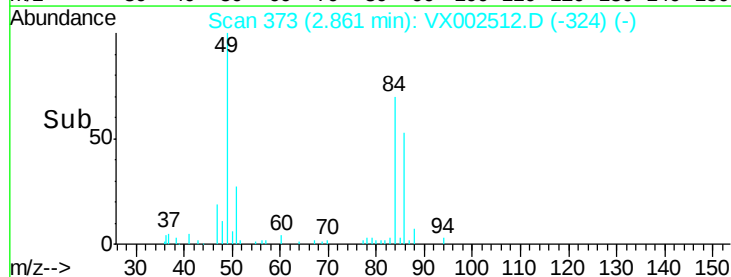
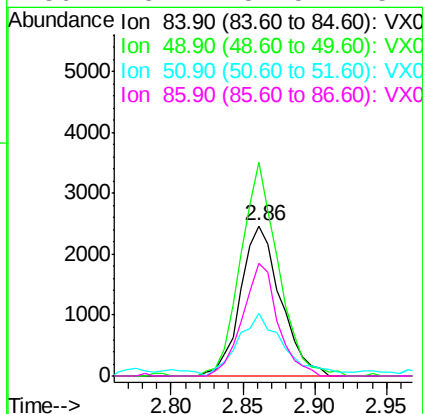
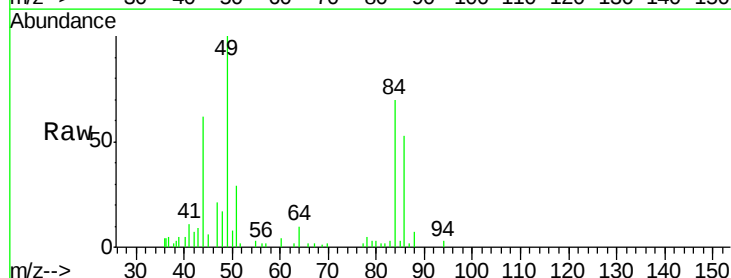
Instrument :
MSVOA_X
ClientSampleId :

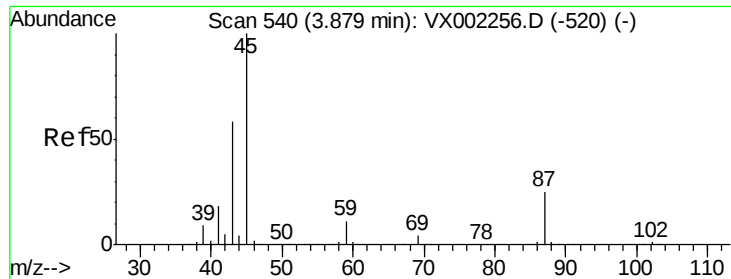
Tot Ion: 73 Resp: 33
Ion Ratio Lower Upper
73 100
57 55.6 17.7 26.5#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002512.D
Acq: 13 Jun 2018 16:05

Tgt Ion: 84 Resp: 4765
Ion Ratio Lower Upper
84 100
49 142.2 107.8 161.6
51 39.5 32.8 49.2
86 75.1 52.5 78.7



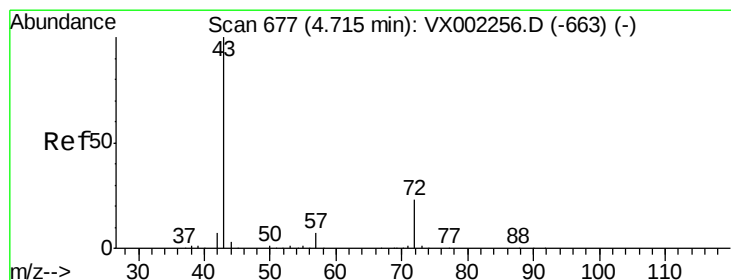
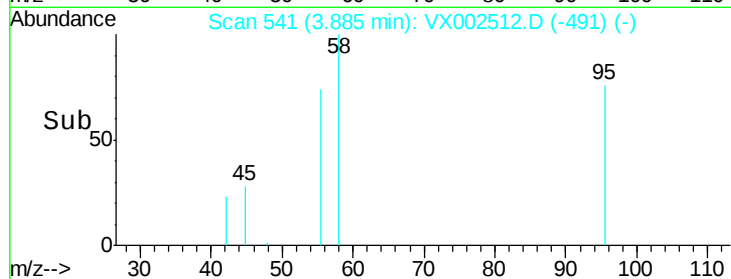
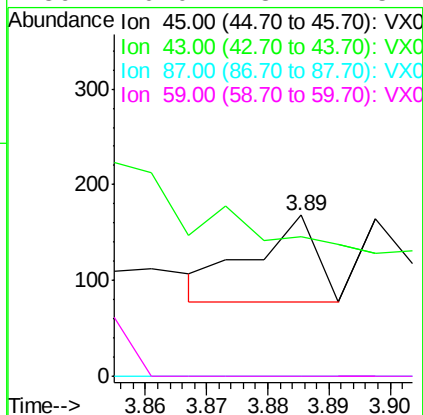
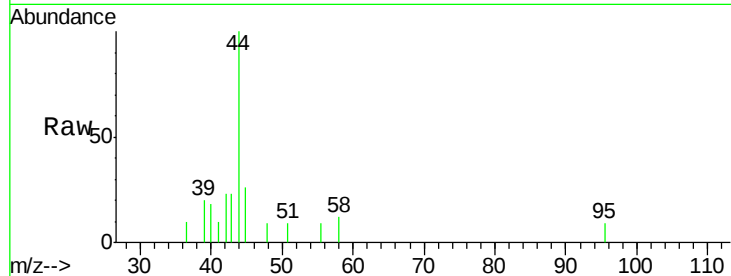


#22

Diisopropyl ether
Concen: Below Cal
RT: 3.89 min Scan# 541
Delta R.T. 0.01 min
Lab File: VX002512.D
Acq: 13 Jun 2018 16:05

Instrument :
MSVOA_X
ClientSampled :

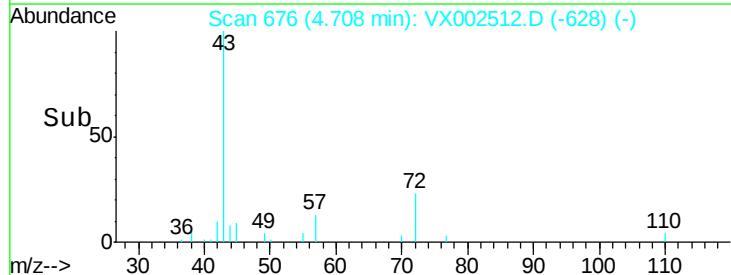
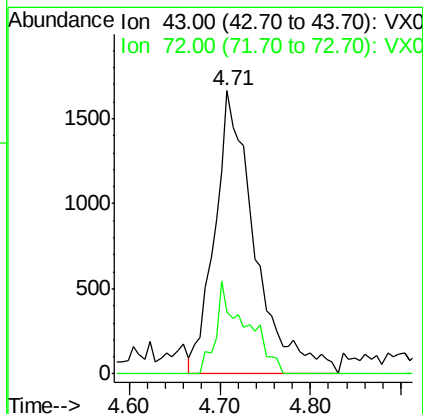
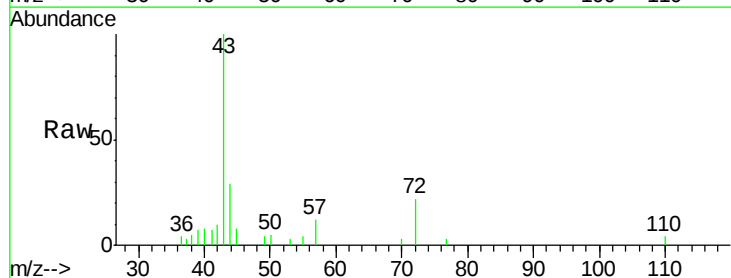
Tot Ion:	45	Resp:	66
Ion	Ratio	Lower	Upper
45	100		
43	7.7	46.8	70.2#
87	0.0	20.2	30.4#
59	0.0	8.7	13.1#

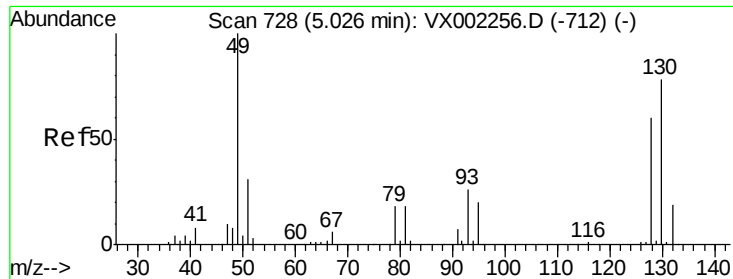


#25

2-Butanone
Concen: 2.74 ug/l
RT: 4.71 min Scan# 676
Delta R.T. -0.01 min
Lab File: VX002512.D
Acq: 13 Jun 2018 16:05

Tgt Ion:	43	Resp:	5116
Ion	Ratio	Lower	Upper
43	100		
72	21.8	18.5	27.7





#28

Bromochloromethane

Concen: Below Cal

RT: 5.04 min Scan# 730

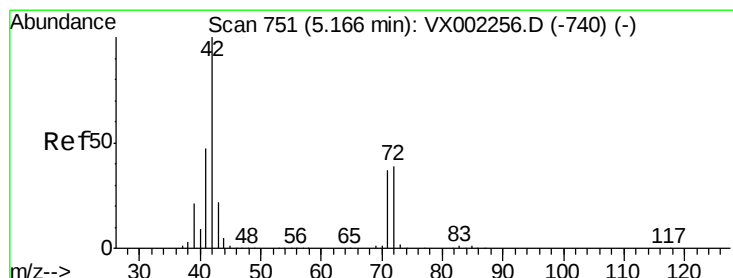
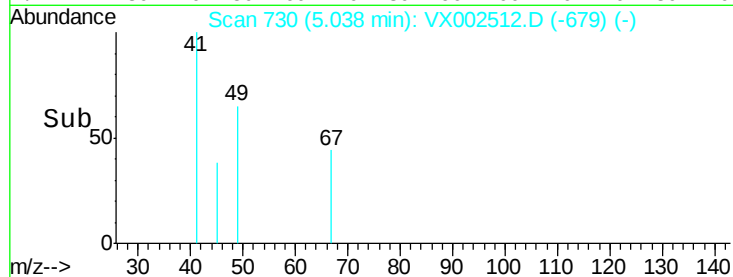
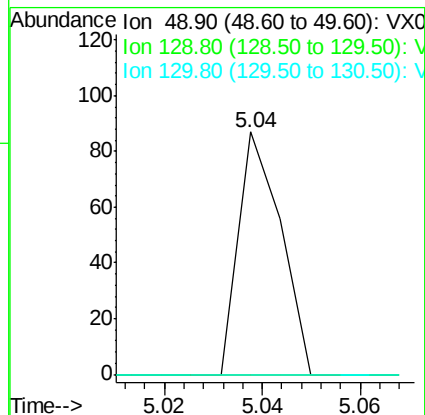
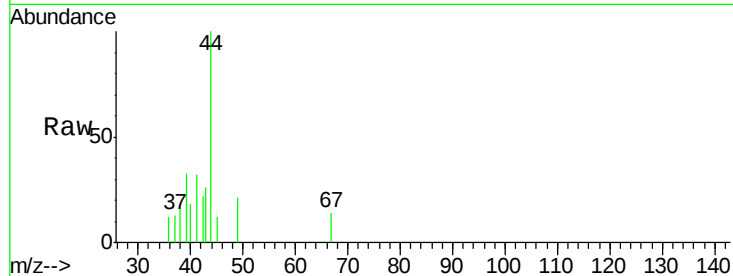
Delta R.T. 0.01 min

Lab File: VX002512.D

Acq: 13 Jun 2018 16:05

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 49 Resp: 52
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.2
130 0.0 61.2 91.8#



#29

Tetrahydrofuran

Concen: 1.22 ug/l

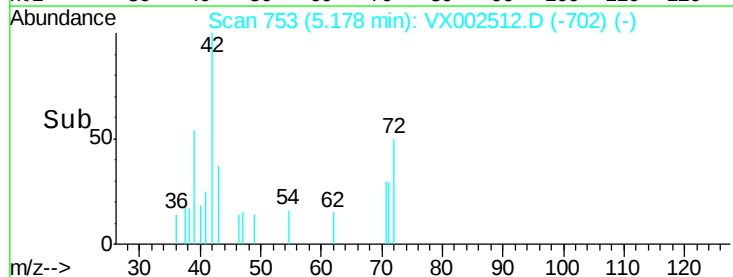
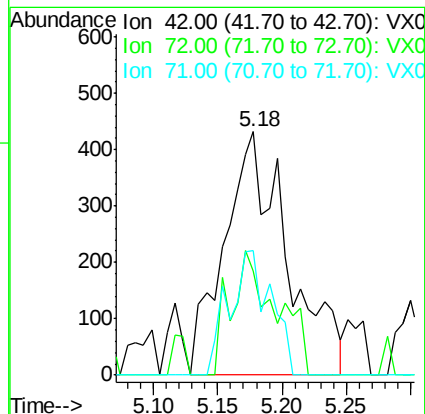
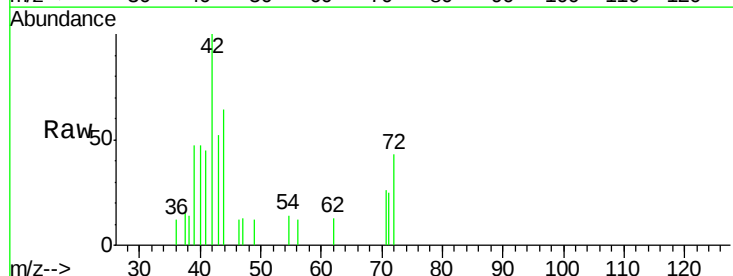
RT: 5.18 min Scan# 753

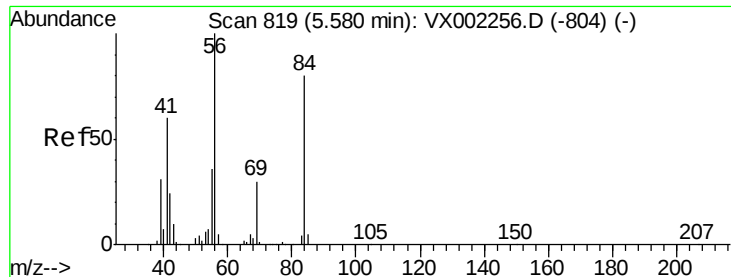
Delta R.T. 0.01 min

Lab File: VX002512.D

Acq: 13 Jun 2018 16:05

Tgt Ion: 42 Resp: 1476
Ion Ratio Lower Upper
42 100
72 28.5 32.0 48.0#
71 33.7 30.1 45.1

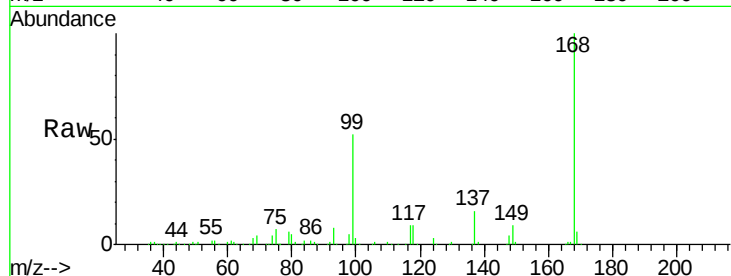




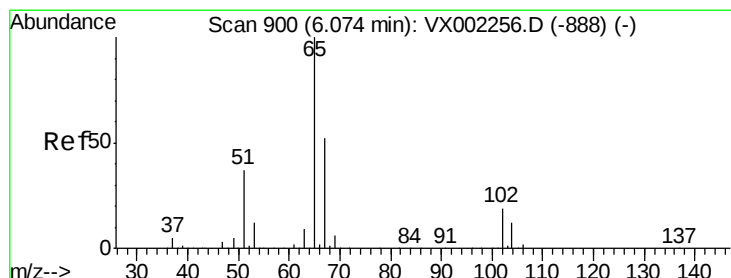
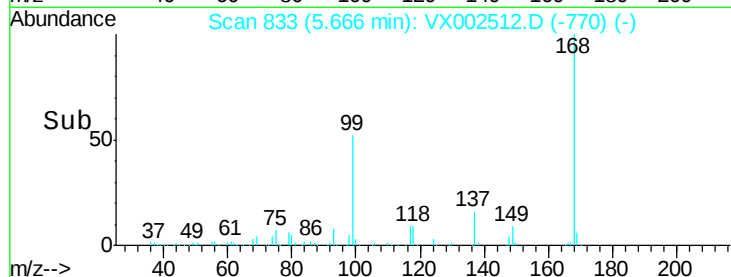
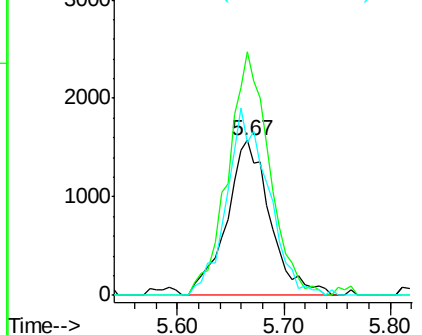
#31
Cyclohexane
Concen: 1.30 ug/l
RT: 5.67 min Scan# 833
Delta R.T. 0.09 min
Lab File: VX002512.D
Acq: 13 Jun 2018 16:05

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 4493
Ion Ratio Lower Upper
56 100
69 157.4 23.7 35.5#
84 98.5 64.1 96.1#

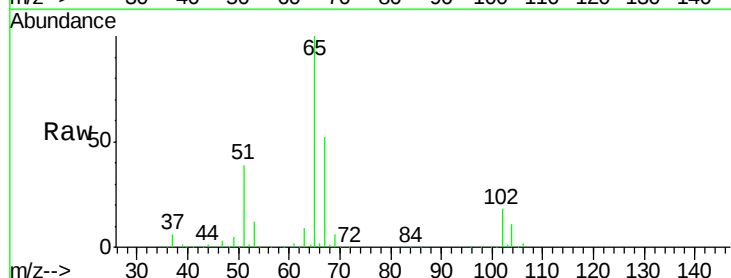


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

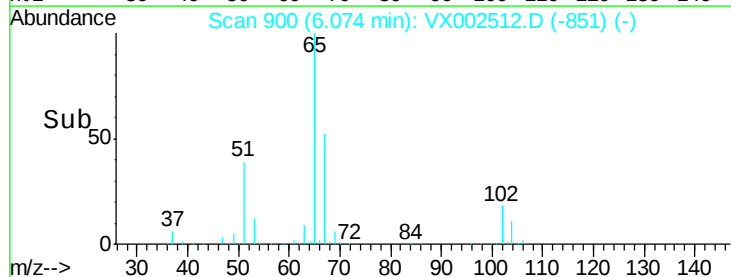
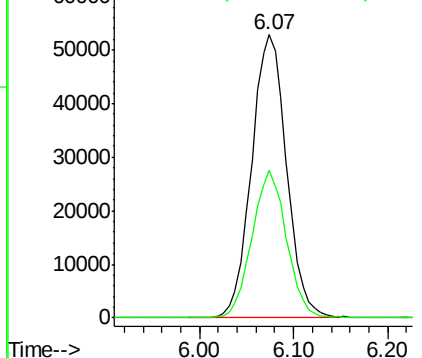


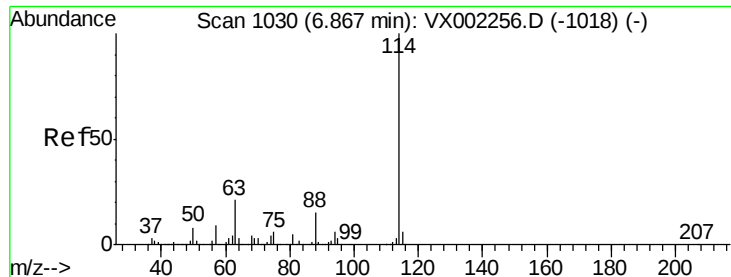
#33
1,2-Dichloroethane-d4
Concen: 50.28 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.00 min
Lab File: VX002512.D
Acq: 13 Jun 2018 16:05

Tgt Ion: 65 Resp: 137053
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

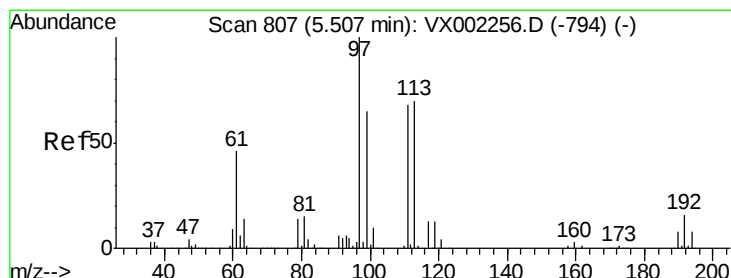
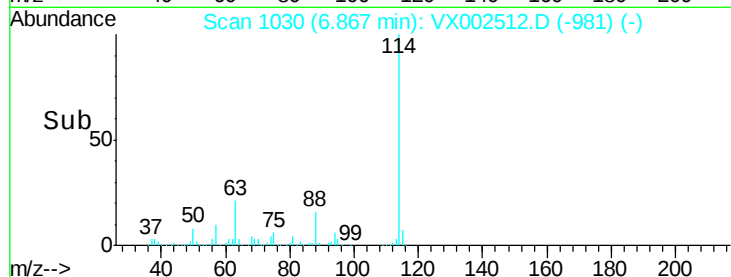
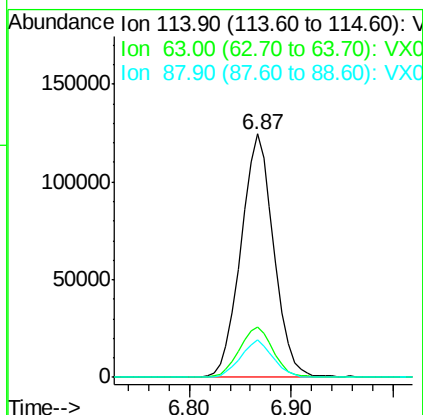
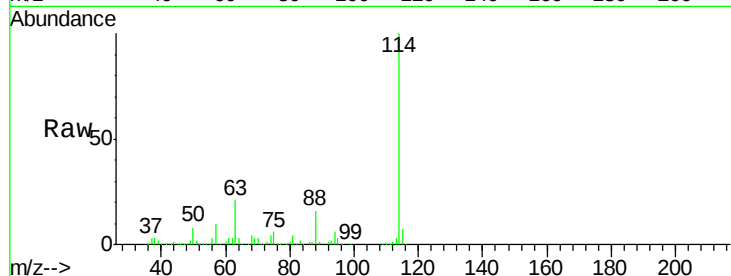




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002512.D
 Acq: 13 Jun 2018 16:05

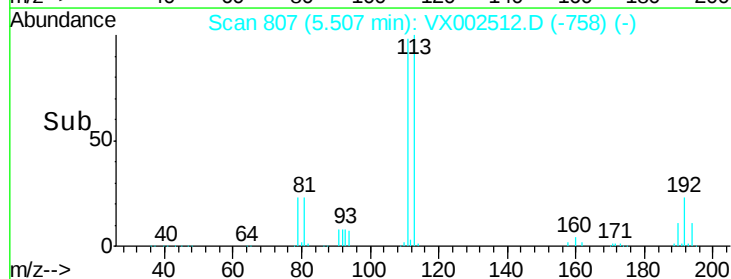
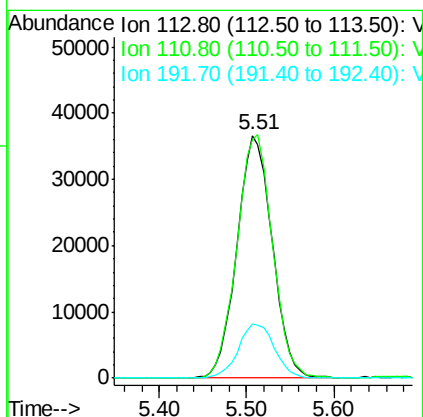
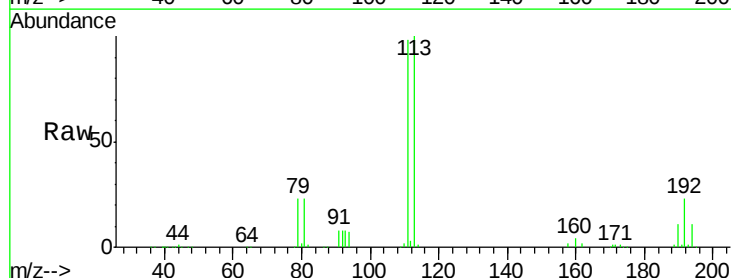
Instrument :
 MSVOA_X
 ClientSampleId :

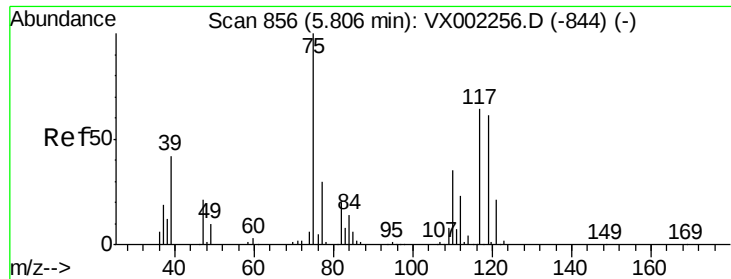
Tot Ion	Ratio	Lower	Upper
114	100		
63	20.5	0.0	41.4
88	15.6	0.0	30.0



#35
 Dibromofluoromethane
 Concen: 47.03 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. -0.00 min
 Lab File: VX002512.D
 Acq: 13 Jun 2018 16:05

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.3	81.4	122.0
192	22.9	19.1	28.7

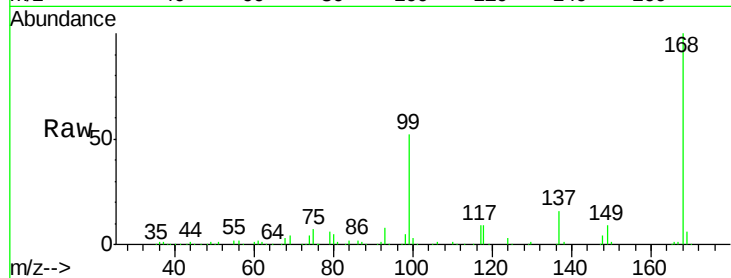




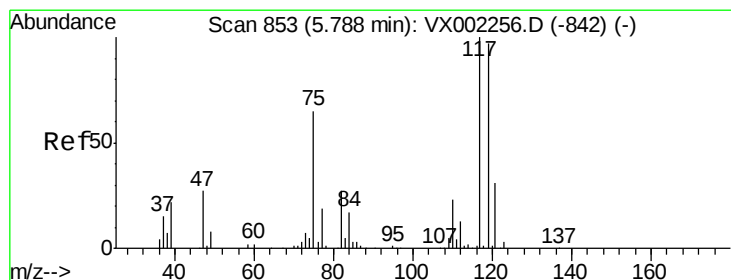
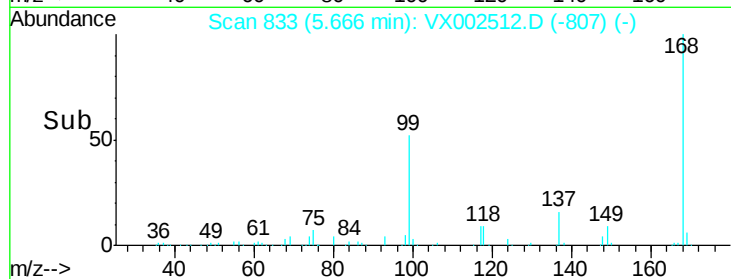
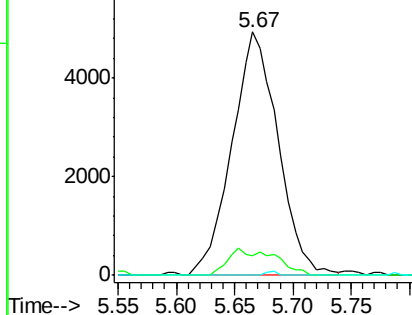
#36
 1,1-Dichloropropene
 Concen: 4.63 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.14 min
 Lab File: VX002512.D
 Acq: 13 Jun 2018 16:05

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
110	5.8	18.1	54.4#
77	0.0	24.3	36.5#

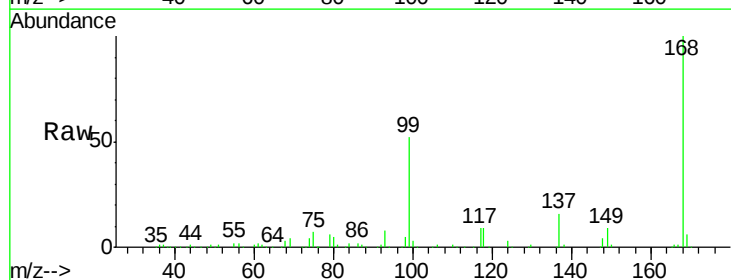


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

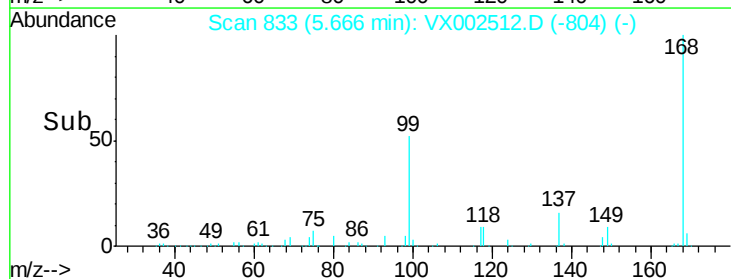
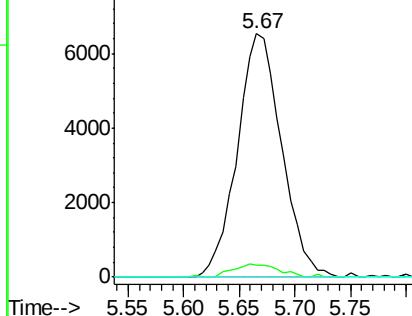


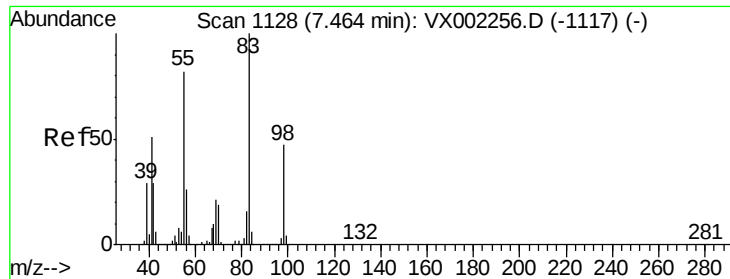
#38
 Carbon Tetrachloride
 Concen: 5.89 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX002512.D
 Acq: 13 Jun 2018 16:05

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.9	77.4	116.0#
121	0.0	24.4	36.6#



Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 118.80 (118.50 to 119.50): V
 Ion 120.80 (120.50 to 121.50): V

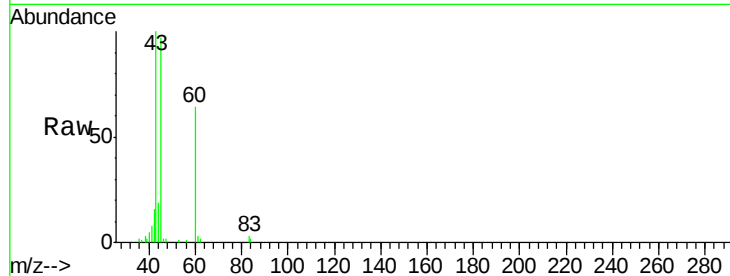




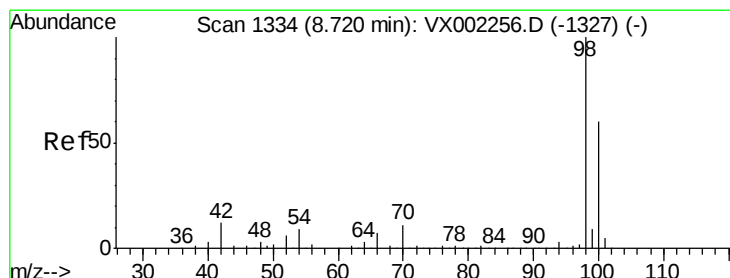
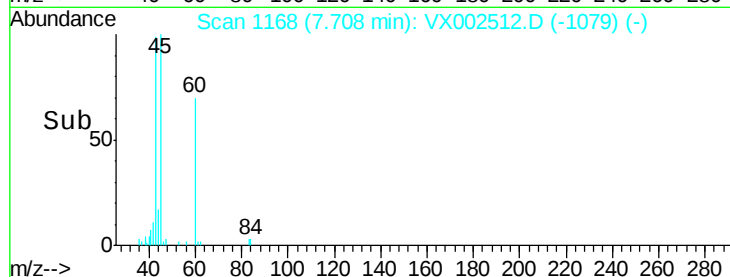
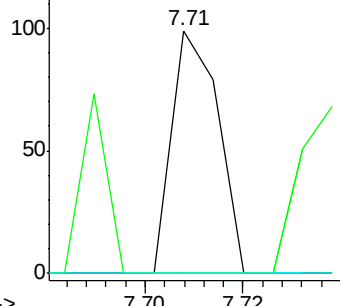
#39
Methylcyclohexane
Concen: 0.28 ug/l
RT: 7.71 min Scan# 1168
Delta R.T. 0.24 min
Lab File: VX002512.D
Acq: 13 Jun 2018 16:05

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 83 Resp: 65
Ion Ratio Lower Upper
83 100
55 0.0 65.4 98.0#
98 0.0 37.4 56.0#

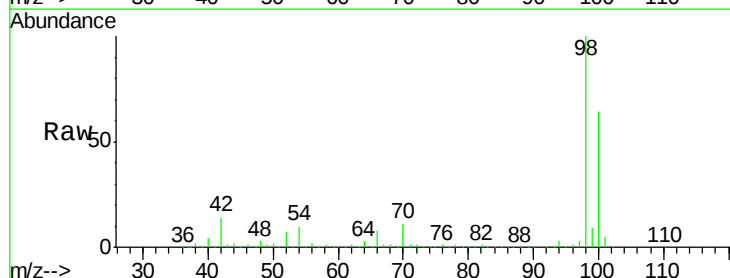


Abundance Ion 83.00 (82.70 to 83.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 98.00 (97.70 to 98.70): VX0

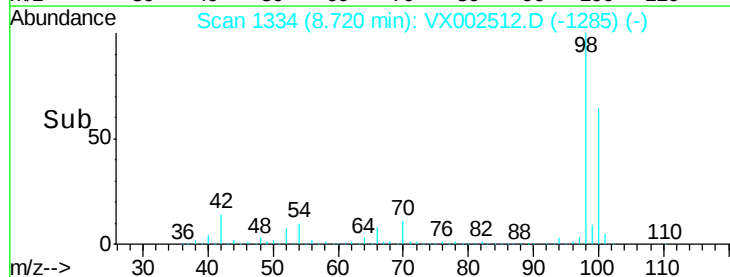
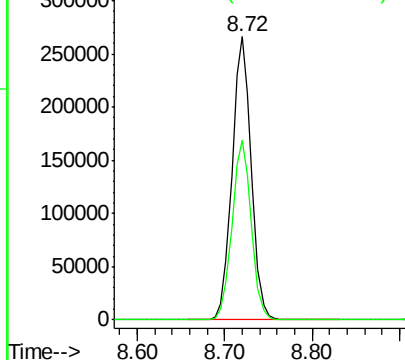


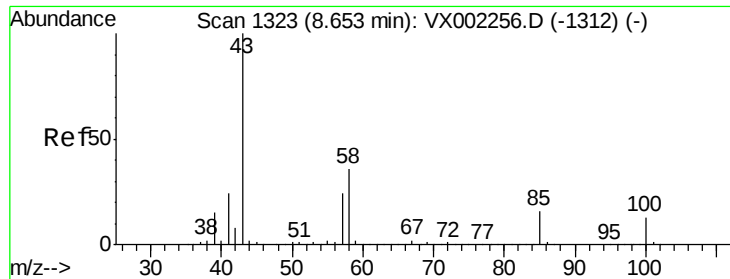
#50
Toluene-d8
Concen: 48.46 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX002512.D
Acq: 13 Jun 2018 16:05

Tgt Ion: 98 Resp: 406679
Ion Ratio Lower Upper
98 100
100 63.5 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 0.60 ug/l

RT: 8.65 min Scan# 1323

Delta R.T. -0.00 min

Lab File: VX002512.D

Acq: 13 Jun 2018 16:05

Instrument :

MSVOA_X

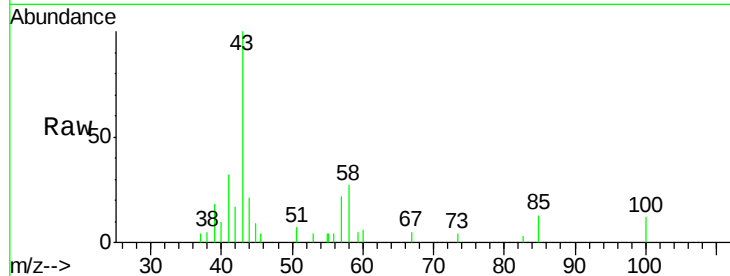
ClientSampled :

Tot Ion: 43 Resp: 2243

Ion Ratio Lower Upper

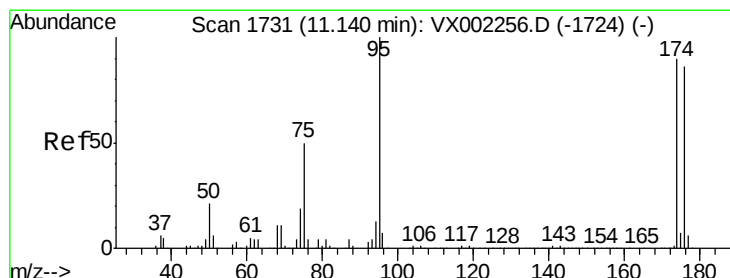
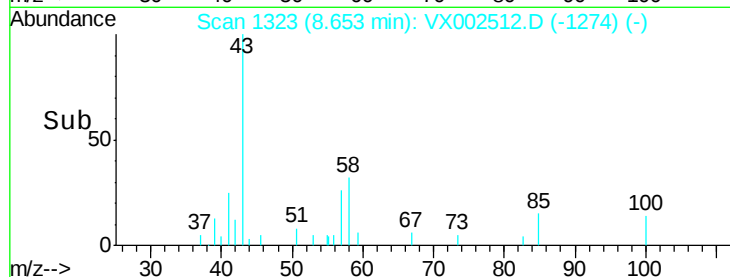
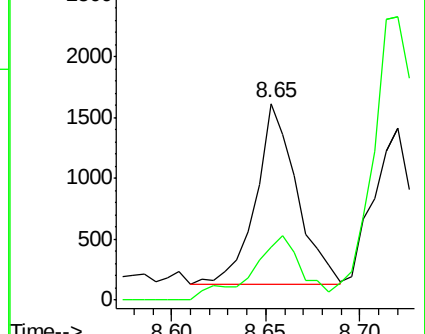
43 100

58 43.7 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: 44.10 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002512.D

Acq: 13 Jun 2018 16:05

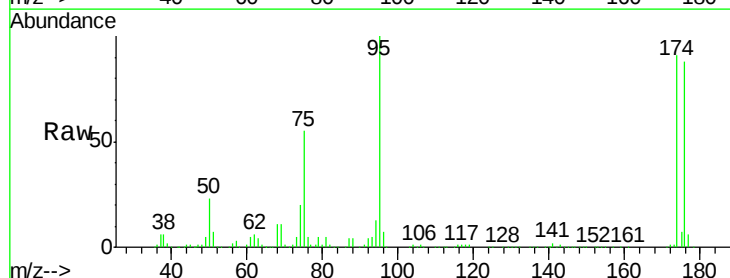
Tgt Ion: 95 Resp: 142715

Ion Ratio Lower Upper

95 100

174 94.4 0.0 187.4

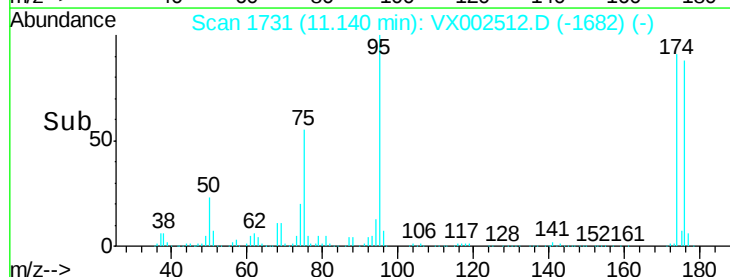
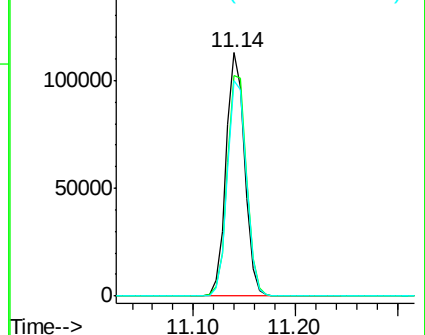
176 90.6 0.0 181.0

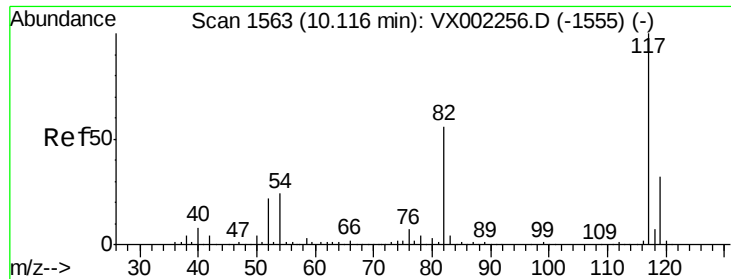


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

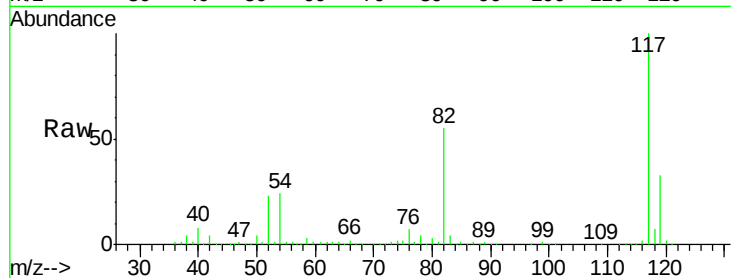




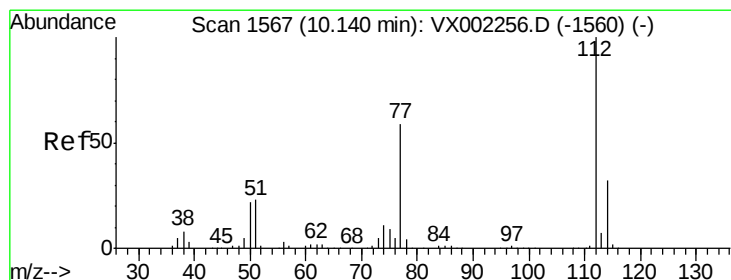
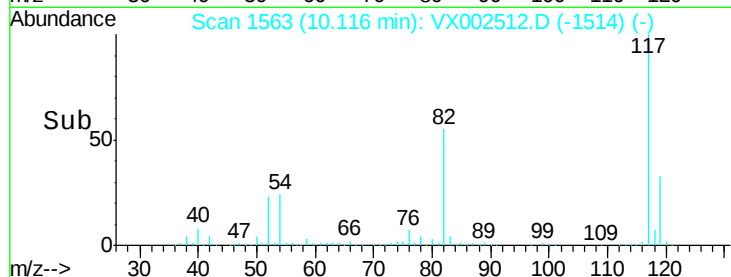
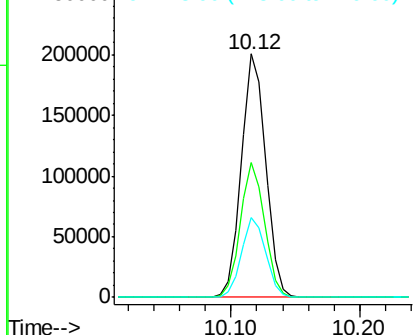
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002512.D
Acq: 13 Jun 2018 16:05

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 262533
Ion Ratio Lower Upper
117 100
82 55.2 45.0 67.4
119 32.5 25.8 38.6

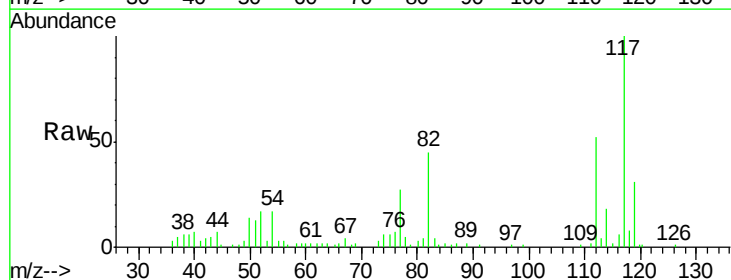


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

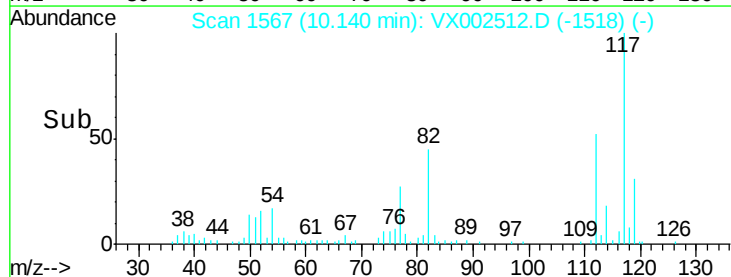
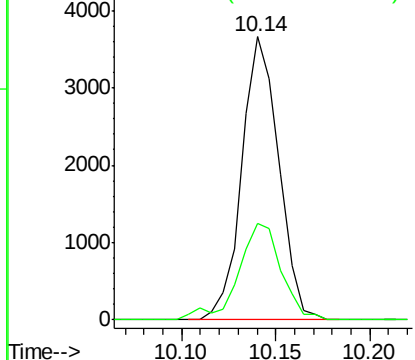


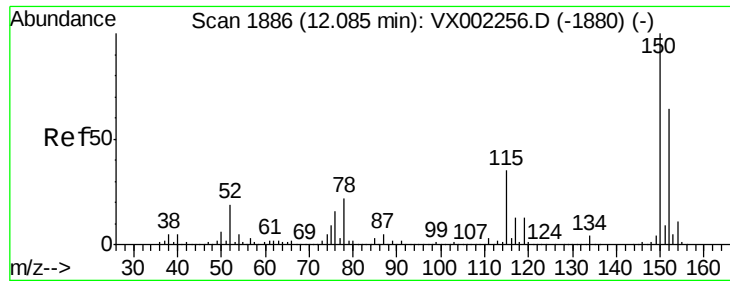
#65
Chlorobenzene
Concen: 0.76 ug/l
RT: 10.14 min Scan# 1567
Delta R.T. -0.00 min
Lab File: VX002512.D
Acq: 13 Jun 2018 16:05

Tgt Ion:112 Resp: 4977
Ion Ratio Lower Upper
112 100
114 34.1 25.3 37.9



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002512.D

Acq: 13 Jun 2018 16:05

Instrument :

MSVOA_X

ClientSampled :

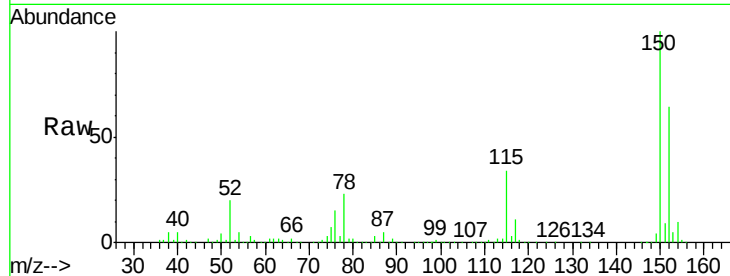
Tot Ion:152 Resp: 150642

Ion Ratio Lower Upper

152 100

115 55.8 40.1 120.2

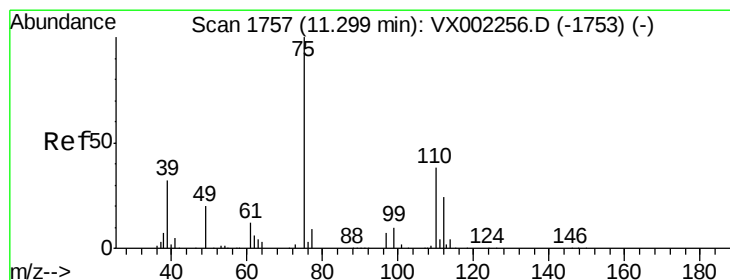
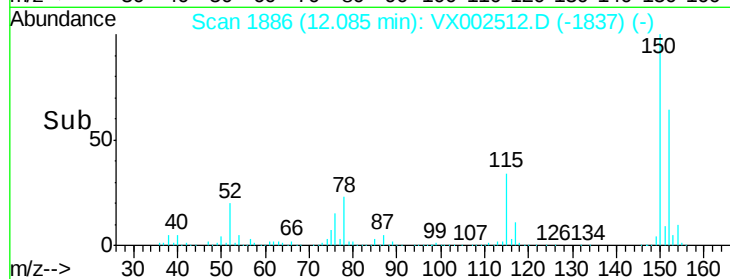
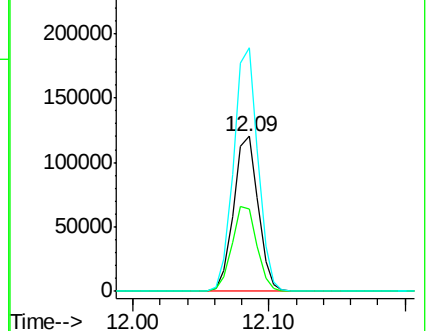
150 156.2 0.0 347.2



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: 23.61 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002512.D

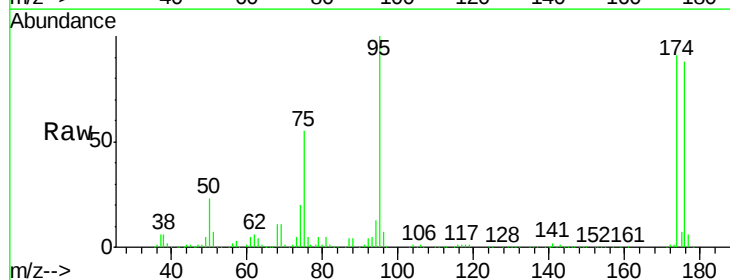
Acq: 13 Jun 2018 16:05

Tgt Ion: 75 Resp: 78053

Ion Ratio Lower Upper

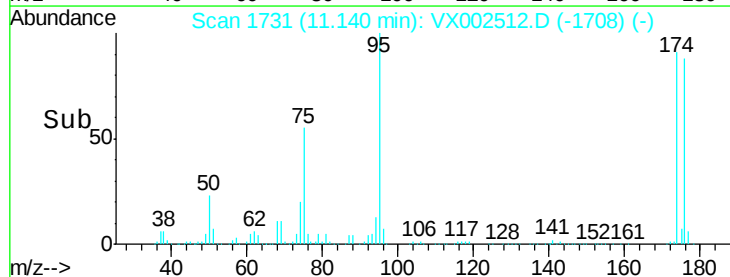
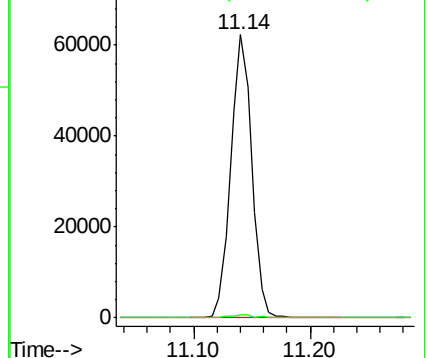
75 100

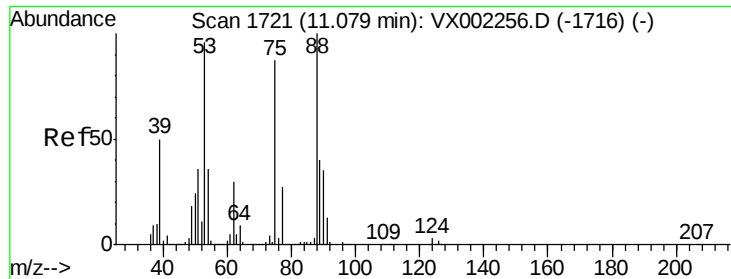
77 1.2 22.8 68.3#



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: 82.77 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002512.D

Acq: 13 Jun 2018 16:05

Instrument :

MSVOA_X

ClientSampleId :

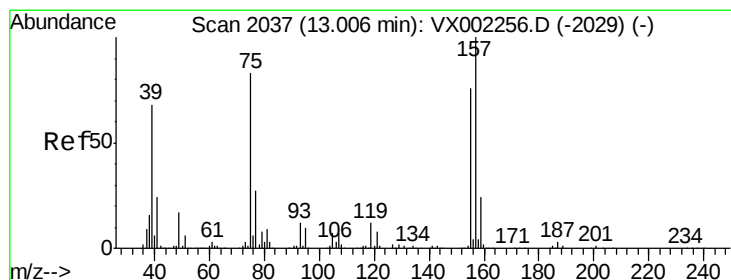
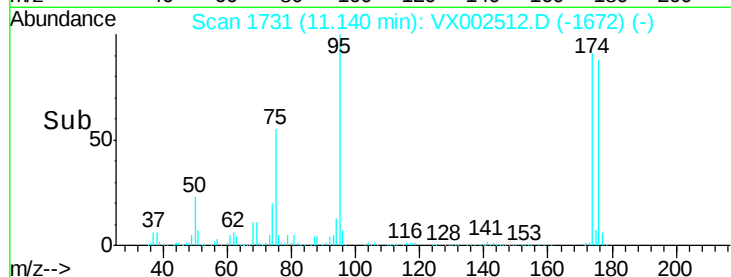
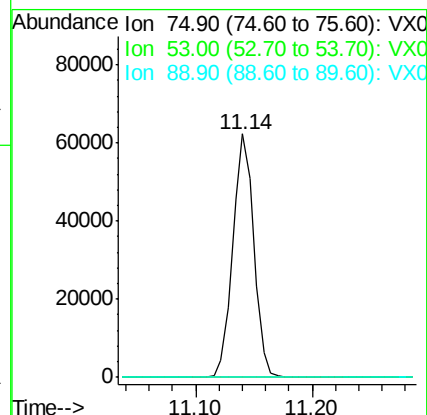
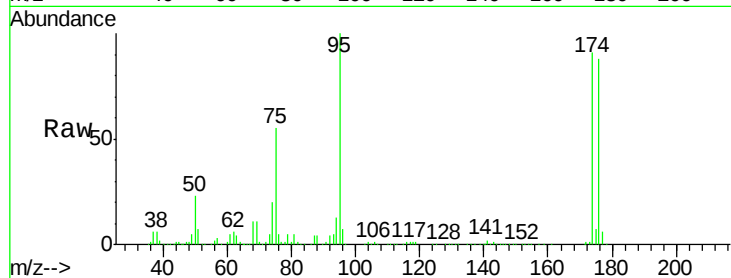
Tot Ion: 75 Resp: 78053

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

89 0.0 38.2 57.2#



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.31 ug/l

RT: 12.99 min Scan# 2034

Delta R.T. -0.02 min

Lab File: VX002512.D

Acq: 13 Jun 2018 16:05

Tgt Ion: 75 Resp: 227

Ion Ratio Lower Upper

75 100

155 0.0 45.8 137.4#

157 0.0 60.1 180.3#

