

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061318\
 Data File : VX002521.D
 Acq On : 13 Jun 2018 20:55
 Operator : JC/MD
 Sample : PB110146TB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 14 01:49:36 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	195409	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	289524	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	275707	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	158801	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	143895	51.61	ug/l	0.00
Spiked Amount			Recovery	=	103.22%	
35) Dibromofluoromethane	5.51	113	106076	46.59	ug/l	0.00
Spiked Amount			Recovery	=	93.18%	
50) Toluene-d8	8.72	98	421453	48.29	ug/l	0.00
Spiked Amount			Recovery	=	96.58%	
62) 4-Bromofluorobenzene	11.14	95	148701	44.19	ug/l	0.00
Spiked Amount			Recovery	=	88.38%	

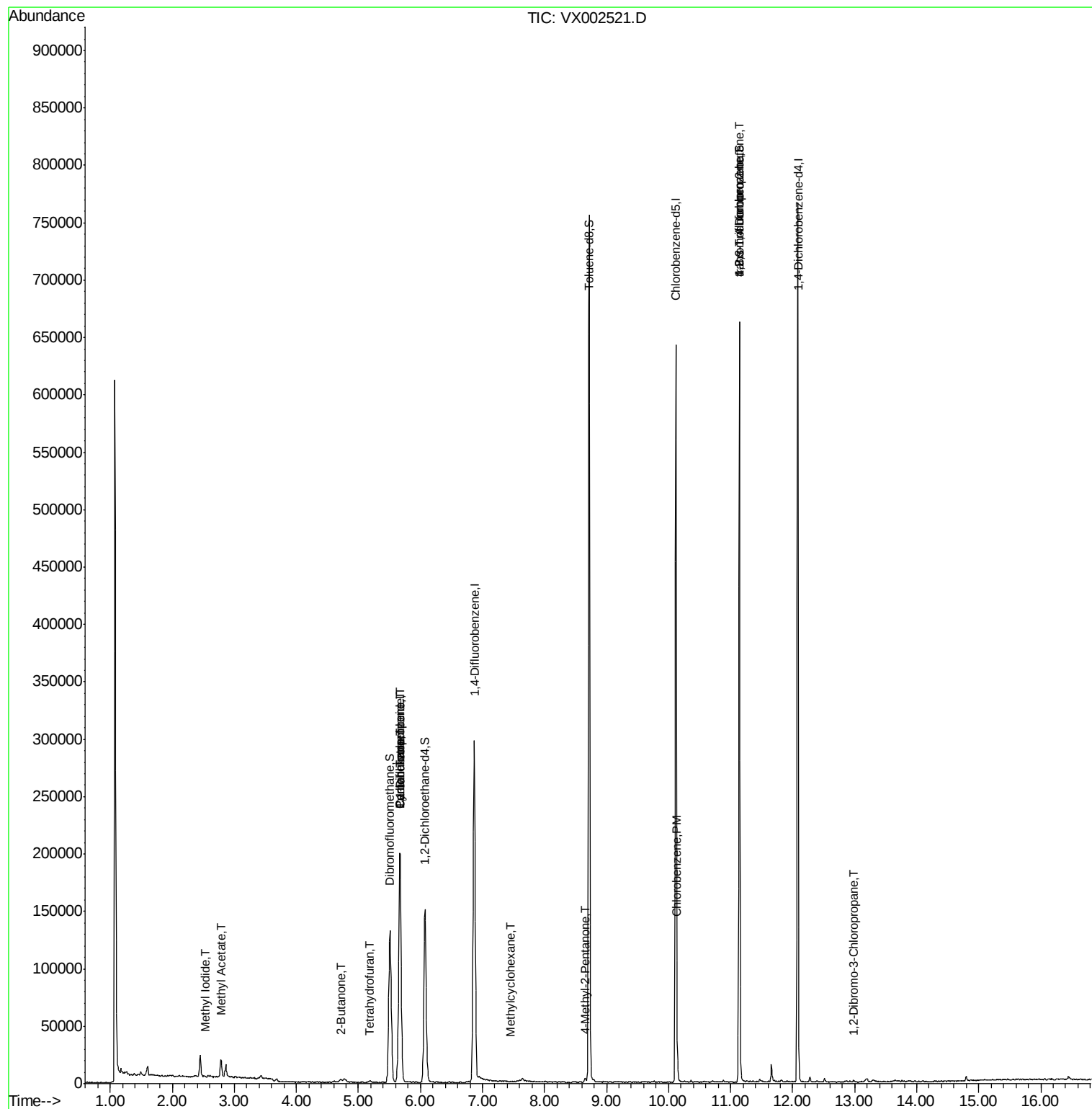
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	416	Below Cal	#	43
5) Bromomethane	1.66	94	1026	Below Cal	#	50
8) Diethyl Ether	2.46	74	51	Below Cal		53
10) Methyl Iodide	2.53	142	875	0.30	ug/l	# 61
11) Tert butyl alcohol	3.08	59	287	Below Cal	#	46
13) Acrolein	2.27	56	109	Below Cal	#	7
15) Acrylonitrile	3.14	53	100	Below Cal	#	17
16) Acetone	2.45	43	21005	Below Cal		100
18) Methyl Acetate	2.78	43	19704	4.59	ug/l	98
19) Methyl tert-butyl Ether	3.23	73	46	Below Cal	#	1
20) Methylene Chloride	2.86	84	4507	Below Cal		92
22) Diisopropyl ether	3.86	45	106	Below Cal	#	41
25) 2-Butanone	4.71	43	4517	2.36	ug/l	91
28) Bromochloromethane	5.03	49	21	Below Cal	#	13
29) Tetrahydrofuran	5.18	42	1432	1.16	ug/l	# 68
31) Cyclohexane	5.67	56	4466	1.27	ug/l	# 34
36) 1,1-Dichloropropene	5.67	75	14044	4.61	ug/l	# 51
38) Carbon Tetrachloride	5.67	117	18630	5.85	ug/l	# 15
39) Methylcyclohexane	7.45	83	40	0.27	ug/l	# 68
51) 4-Methyl-2-Pentanone	8.65	43	2293	0.59	ug/l	99
65) Chlorobenzene	10.14	112	4728	0.69	ug/l	98
76) 1,2,3-Trichloropropane	11.14	75	81420	23.37	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	81420	81.91	ug/l	# 7
92) 1,2-Dibromo-3-Chloropropan	12.98	75	233	0.31	ug/l	# 1

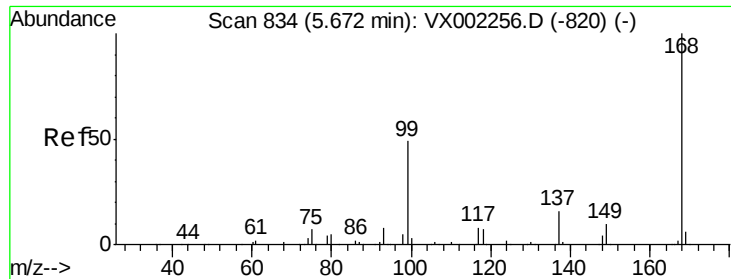
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX061318\
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Acq On : 13 Jun 2018 20:55
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MSVOA_X
ClientSampleId :

Quant Time: Jun 14 01:49:36 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# 834

Delta R.T. -0.00 min

Lab File: VX002521.D

Acq: 13 Jun 2018 20:55

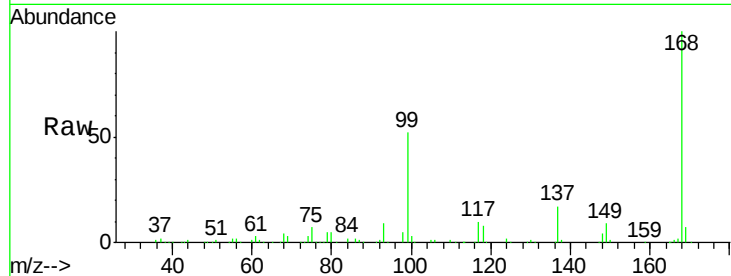
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 195409

Ion Ratio Lower Upper

168 100

99 51.5 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

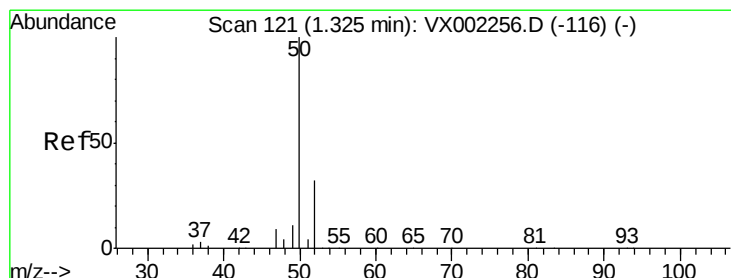
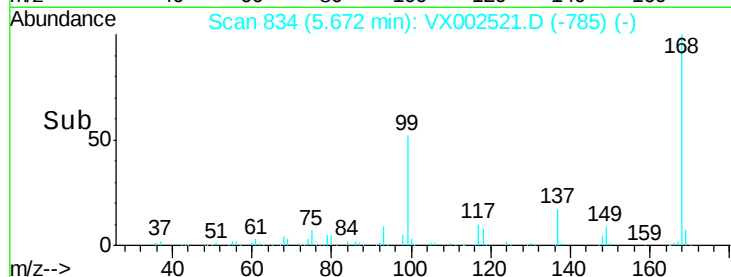
60000

40000

20000

0

Time--> 5.50 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: VX002521.D

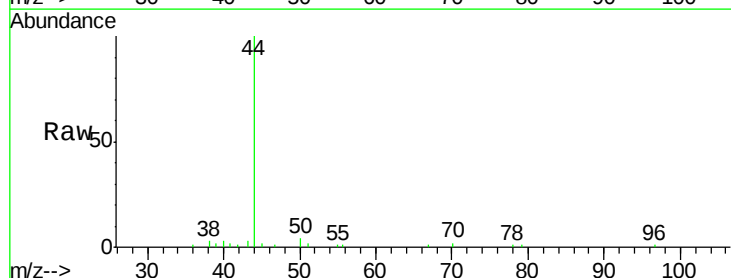
Acq: 13 Jun 2018 20:55

Tgt Ion: 50 Resp: 416

Ion Ratio Lower Upper

50 100

52 0.0 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

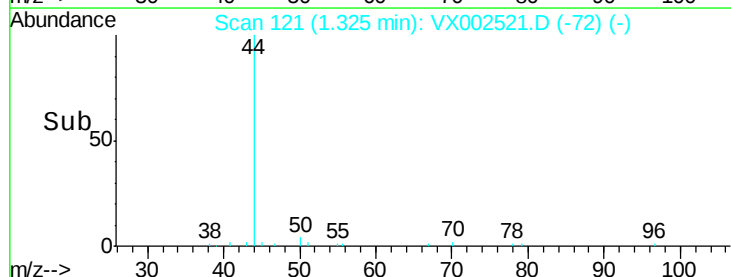
150

100

50

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX002521.D

Acq: 13 Jun 2018 20:55

Instrument :

MSVOA_X

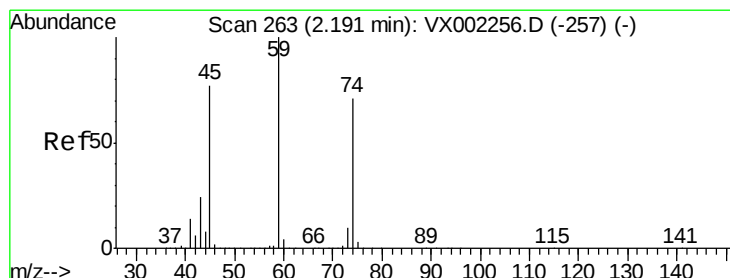
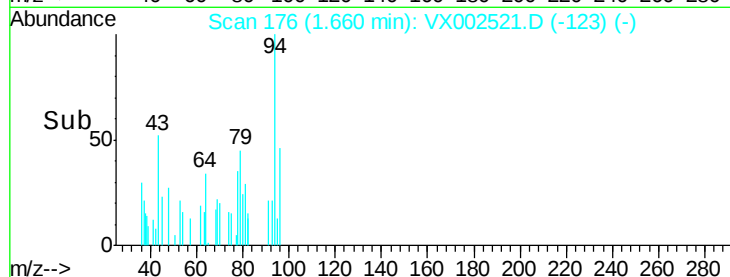
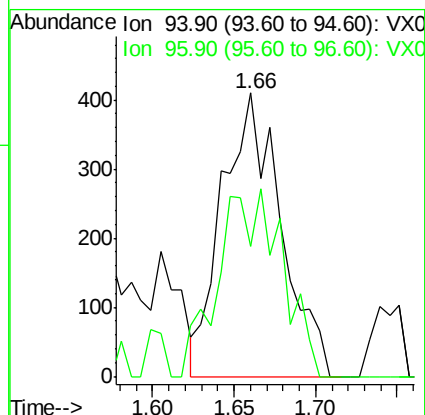
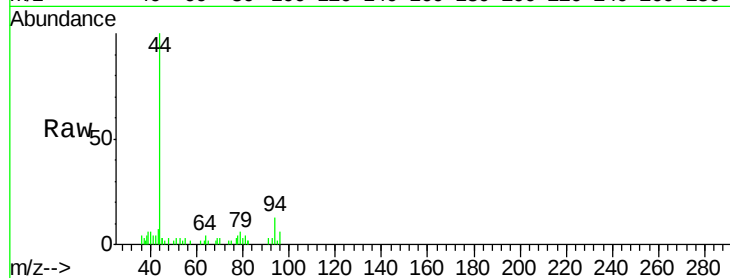
ClientSampled :

Tot Ion: 94 Resp: 1026

Ion Ratio Lower Upper

94 100

96 45.9 74.9 112.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.46 min Scan# 307

Delta R.T. 0.27 min

Lab File: VX002521.D

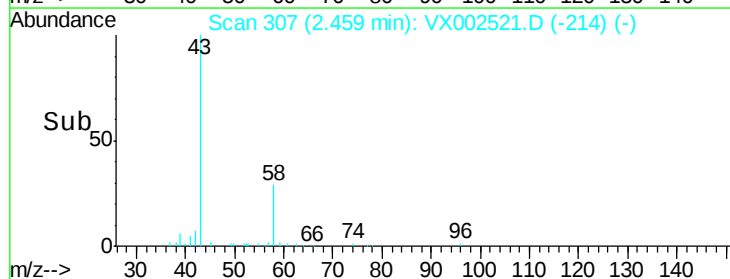
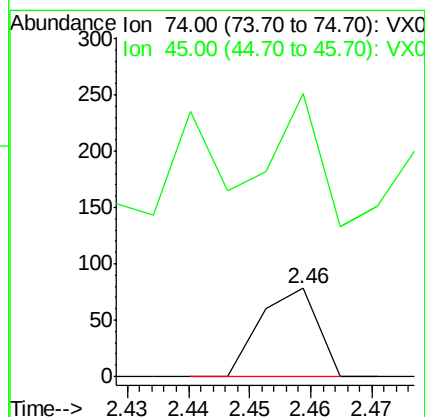
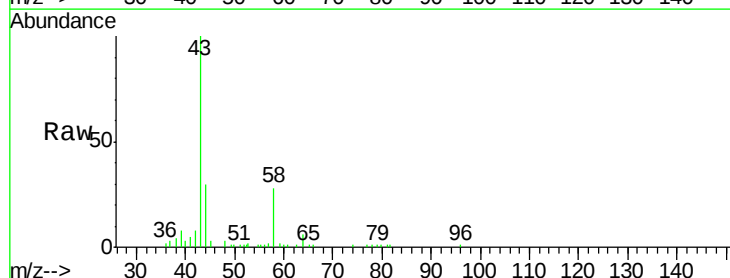
Acq: 13 Jun 2018 20:55

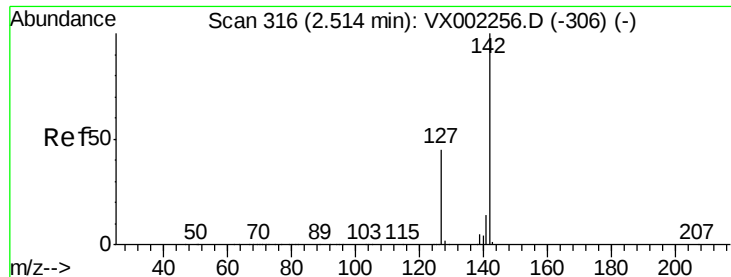
Tgt Ion: 74 Resp: 51

Ion Ratio Lower Upper

74 100

45 154.9 53.1 159.4

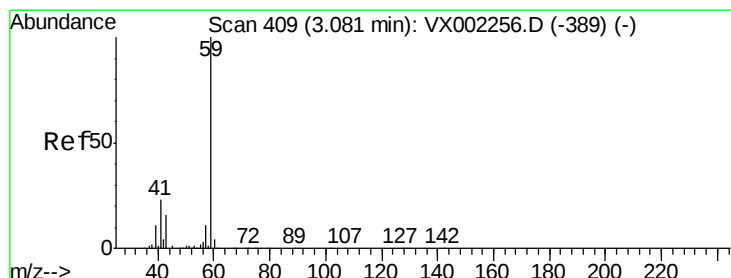
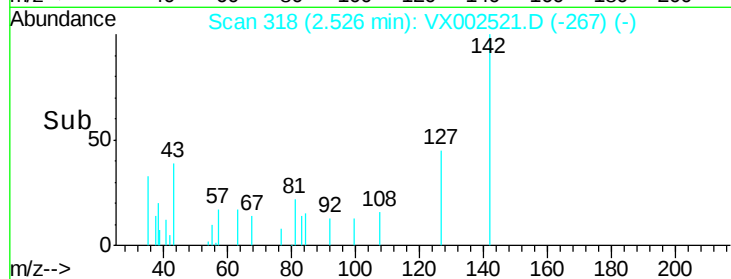
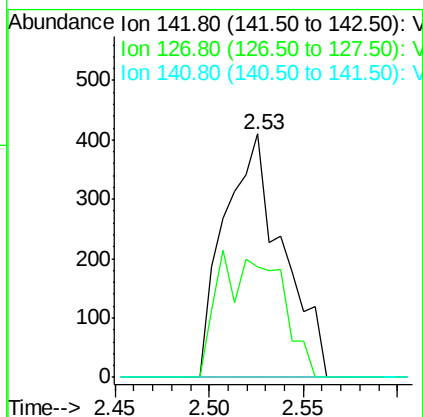
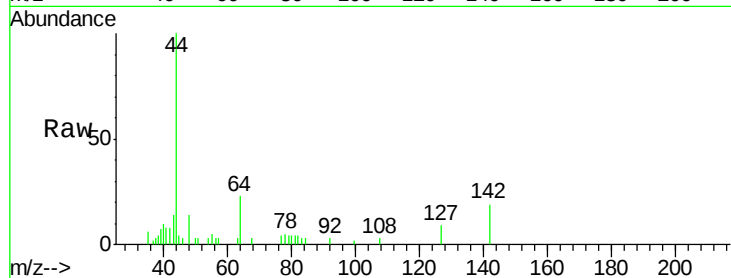




#10
Methyl Iodide
Concen: 0.30 ug/l
RT: 2.53 min Scan# 318
Delta R.T. 0.01 min
Lab File: VX002521.D
Acq: 13 Jun 2018 20:55

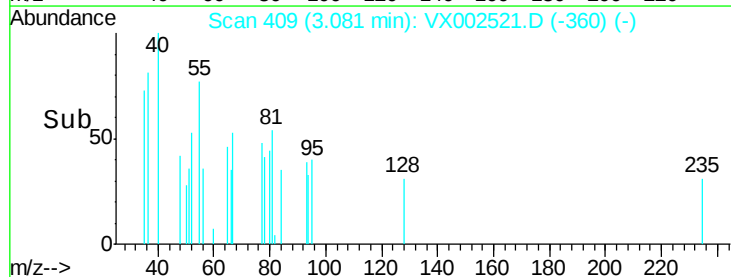
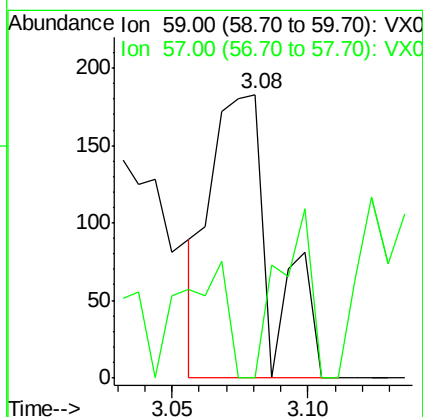
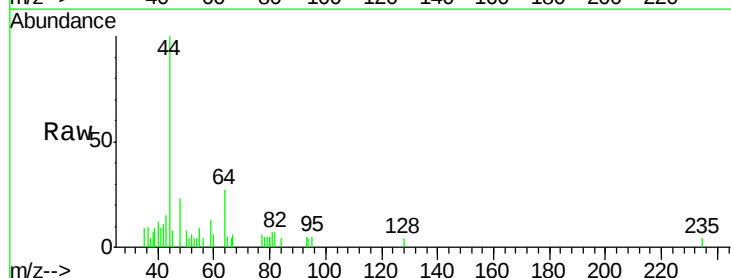
Instrument :
MSVOA_X
ClientSampled :

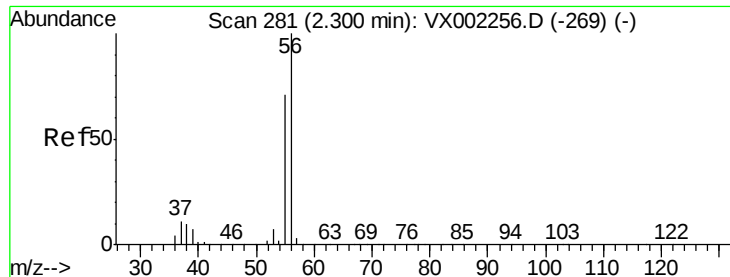
Tot Ion:142 Resp: 875
Ion Ratio Lower Upper
142 100
127 18.9 36.6 55.0#
141 0.0 11.3 16.9#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.08 min Scan# 409
Delta R.T. 0.00 min
Lab File: VX002521.D
Acq: 13 Jun 2018 20:55

Tgt Ion: 59 Resp: 287
Ion Ratio Lower Upper
59 100
57 30.3 8.2 12.2#





#13

Acrolein

Concen: Below Cal

RT: 2.27 min Scan# 276

Delta R.T. -0.03 min

Lab File: VX002521.D

Acq: 13 Jun 2018 20:55

Instrument :

MSVOA_X

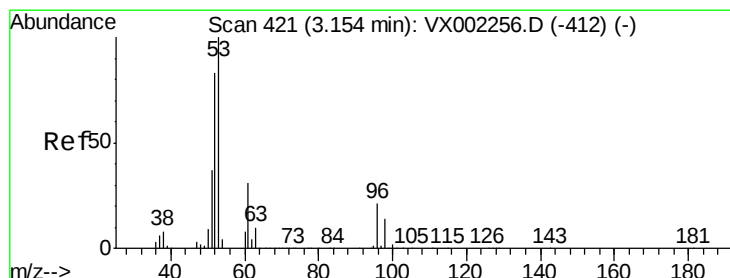
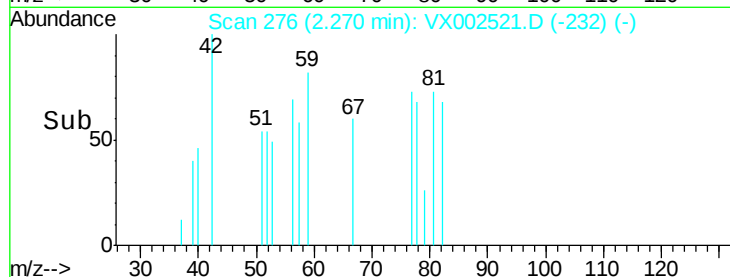
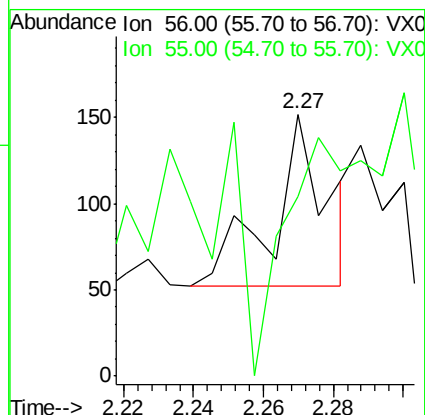
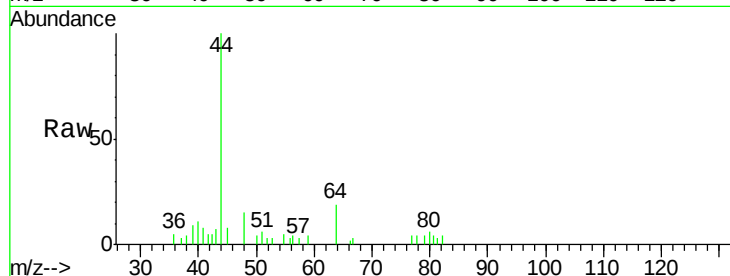
ClientSampled :

Tot Ion: 56 Resp: 109

Ion Ratio Lower Upper

56 100

55 148.6 57.0 85.4#



#15

Acrylonitrile

Concen: Below Cal

RT: 3.14 min Scan# 418

Delta R.T. -0.02 min

Lab File: VX002521.D

Acq: 13 Jun 2018 20:55

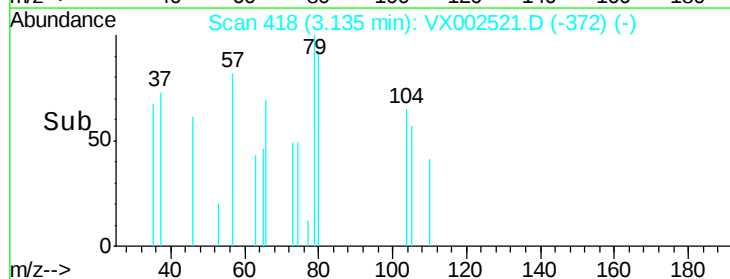
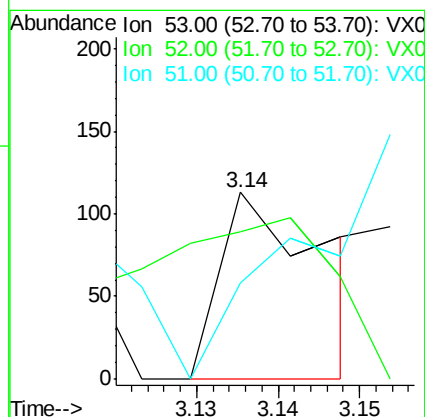
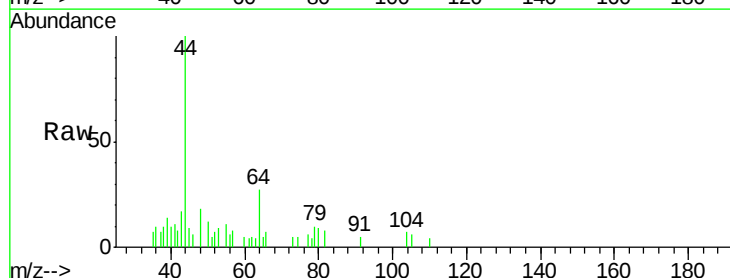
Tgt Ion: 53 Resp: 100

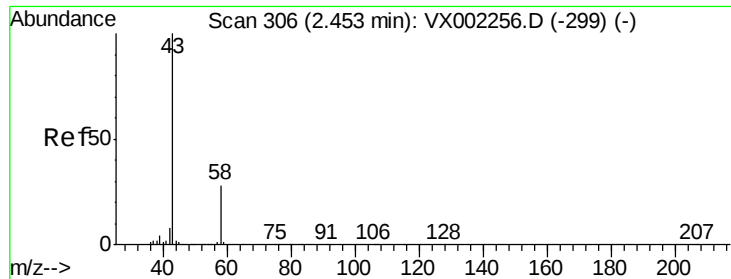
Ion Ratio Lower Upper

53 100

52 167.0 66.7 100.1#

51 0.0 29.9 44.9#





#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002521.D

Acq: 13 Jun 2018 20:55

Instrument :

MSVOA_X

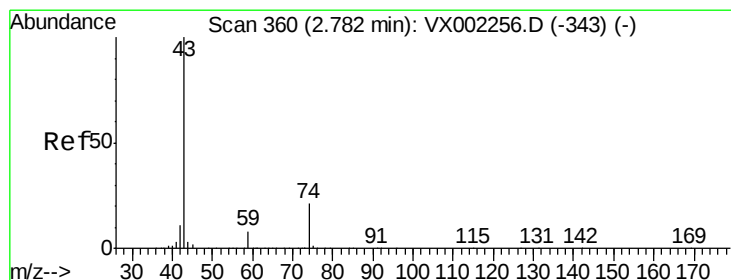
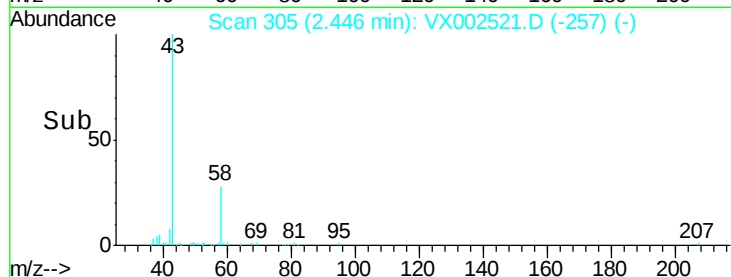
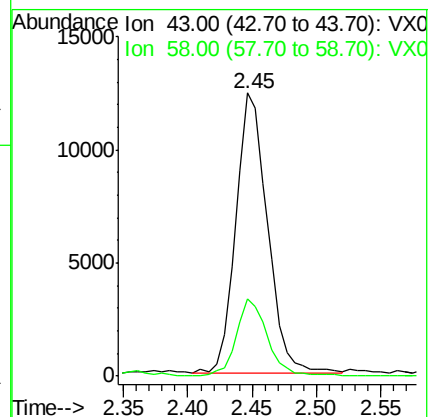
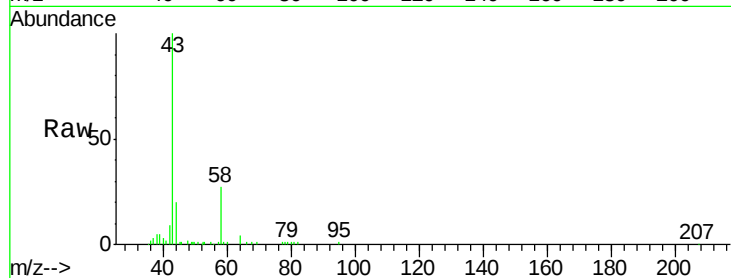
ClientSampled :

Tot Ion: 43 Resp: 21005

Ion Ratio Lower Upper

43 100

58 27.6 22.1 33.1



#18

Methyl Acetate

Concen: 4.59 ug/l

RT: 2.78 min Scan# 360

Delta R.T. -0.00 min

Lab File: VX002521.D

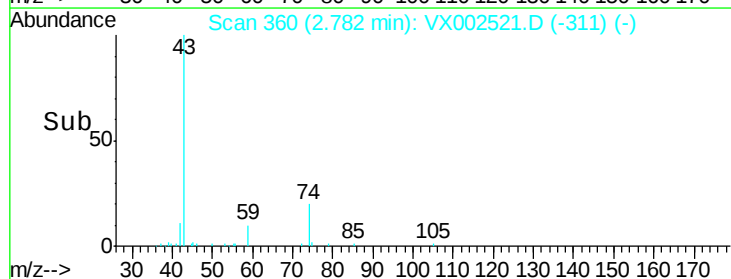
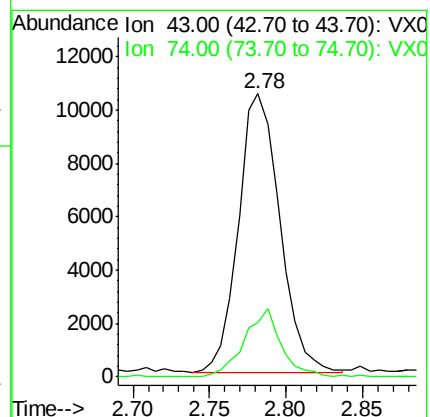
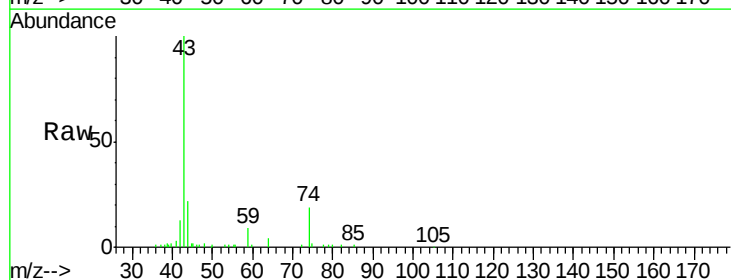
Acq: 13 Jun 2018 20:55

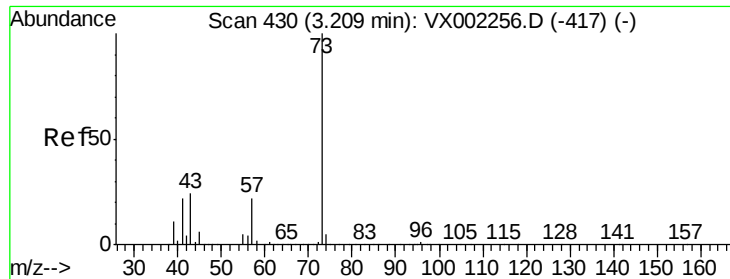
Tgt Ion: 43 Resp: 19704

Ion Ratio Lower Upper

43 100

74 21.7 16.7 25.1

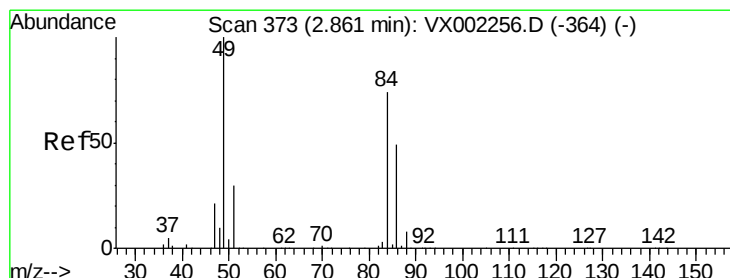
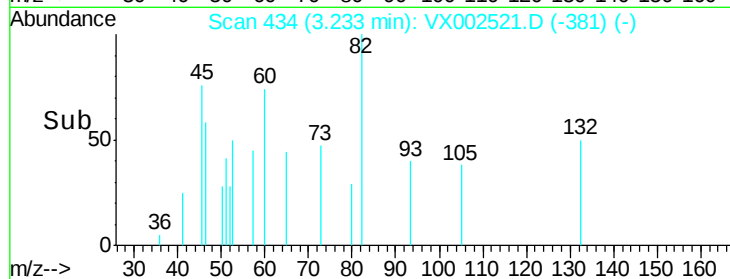
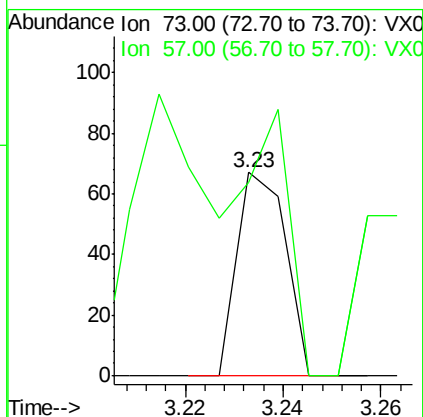
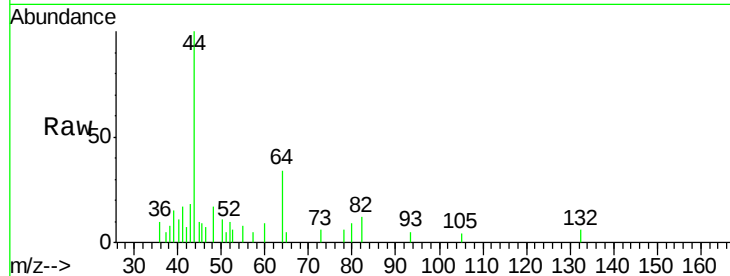




#19
Methvl tert-butvl Ether
Concen: Below Cal
RT: 3.23 min Scan# 434
Delta R.T. 0.02 min
Lab File: VX002521.D
Acq: 13 Jun 2018 20:55

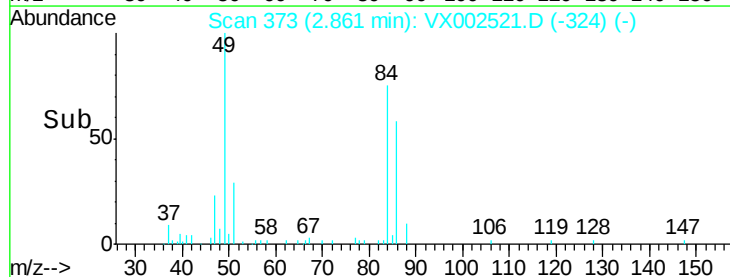
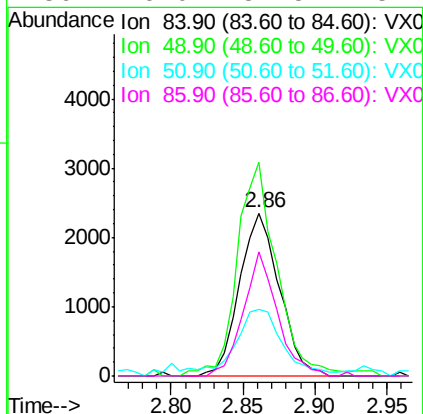
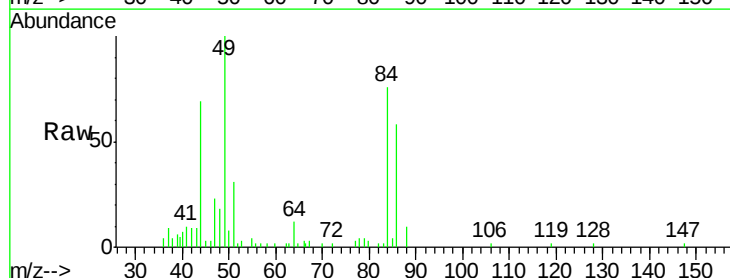
Instrument :
MSVOA_X
ClientSampled :

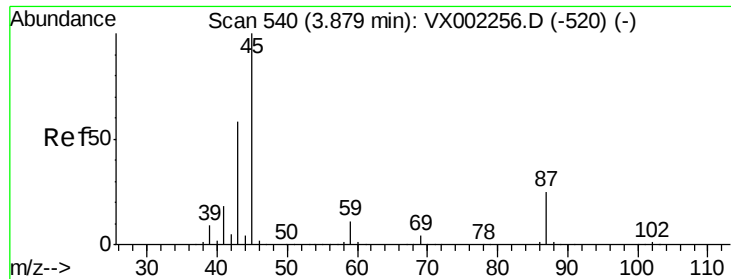
Tot Ion: 73 Resp: 46
Ion Ratio Lower Upper
73 100
57 95.5 17.7 26.5#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002521.D
Acq: 13 Jun 2018 20:55

Tgt Ion: 84 Resp: 4507
Ion Ratio Lower Upper
84 100
49 127.8 107.8 161.6
51 36.2 32.8 49.2
86 76.0 52.5 78.7



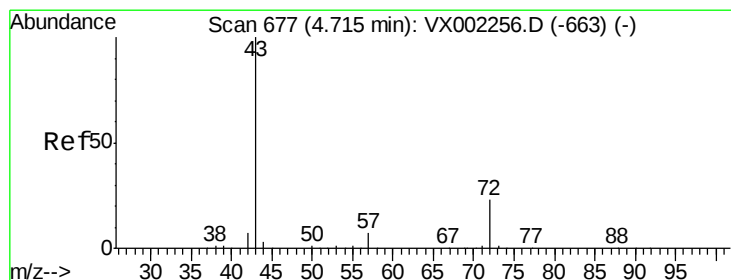
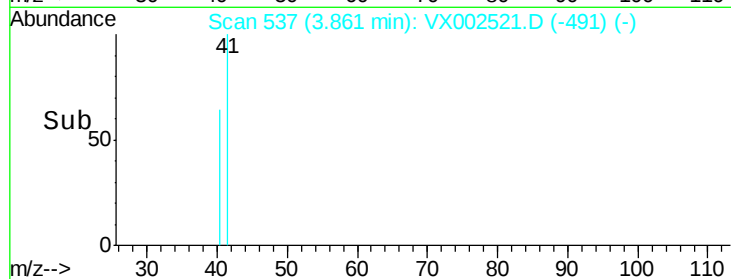
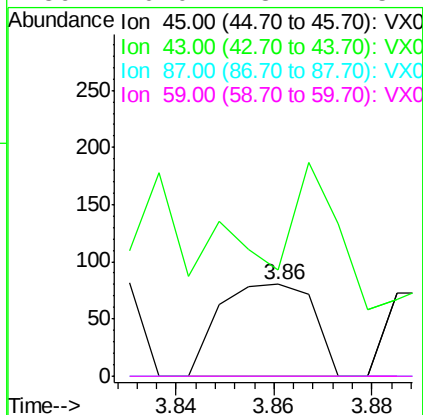
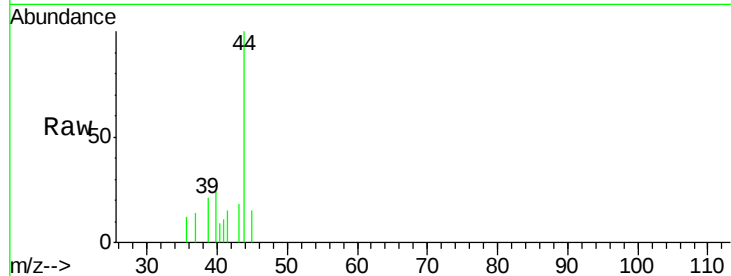


#22

Diisopropyl ether
 Concen: Below Cal
 RT: 3.86 min Scan# 537
 Delta R.T. -0.02 min
 Lab File: VX002521.D
 Acq: 13 Jun 2018 20:55

Instrument :
 MSVOA_X
 ClientSampleId :

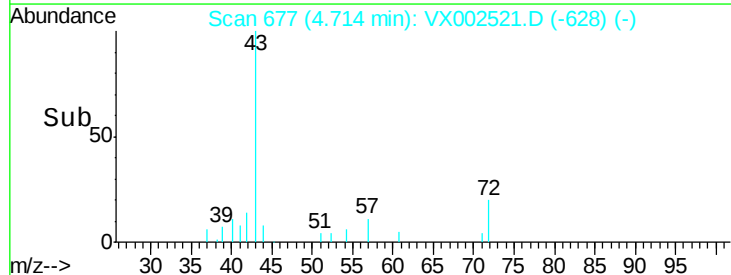
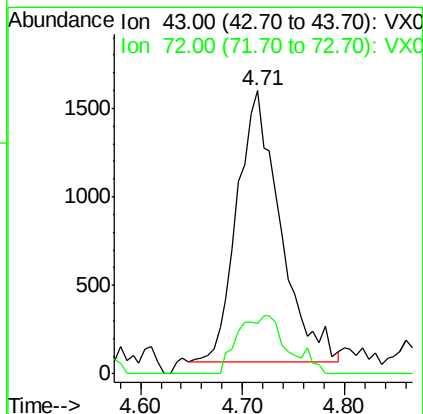
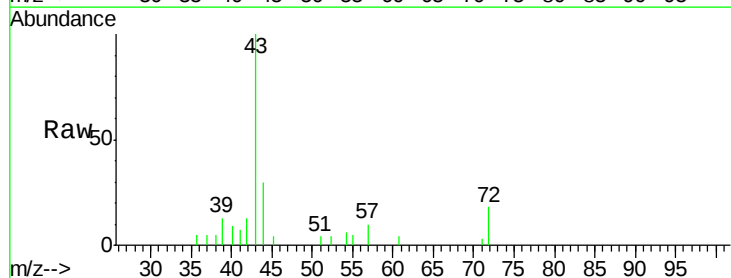
Tot Ion:	45	Resp:	106
Ion	Ratio	Lower	Upper
45	100		
43	7.5	46.8	70.2#
87	0.0	20.2	30.4#
59	0.0	8.7	13.1#

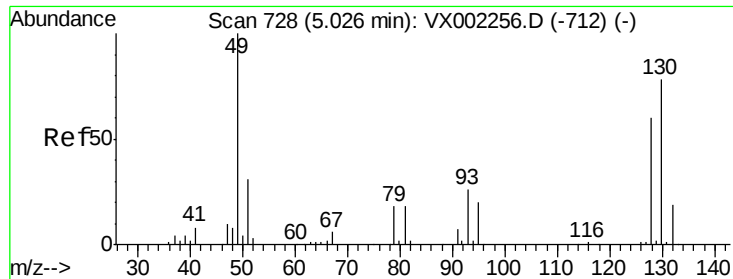


#25

2-Butanone
 Concen: 2.36 ug/l
 RT: 4.71 min Scan# 677
 Delta R.T. -0.00 min
 Lab File: VX002521.D
 Acq: 13 Jun 2018 20:55

Tgt Ion:	43	Resp:	4517
Ion	Ratio	Lower	Upper
43	100		
72	18.7	18.5	27.7





#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 728

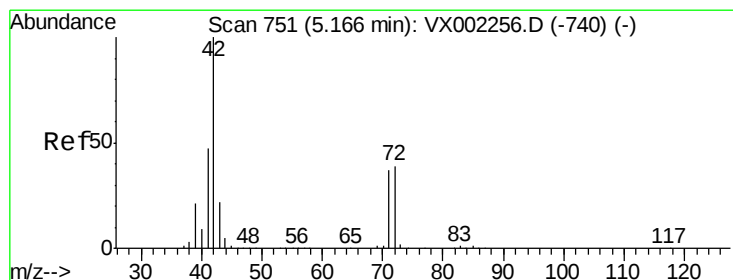
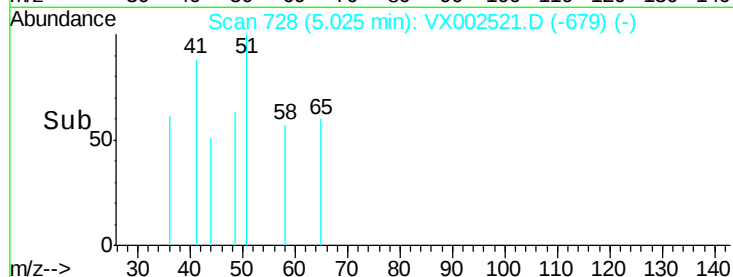
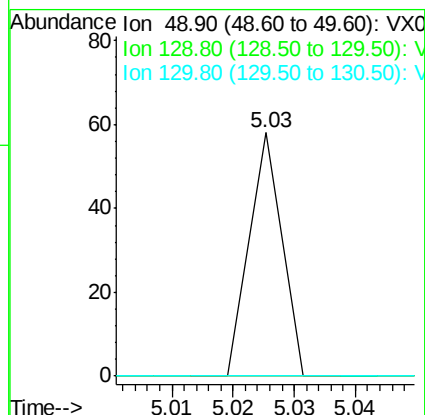
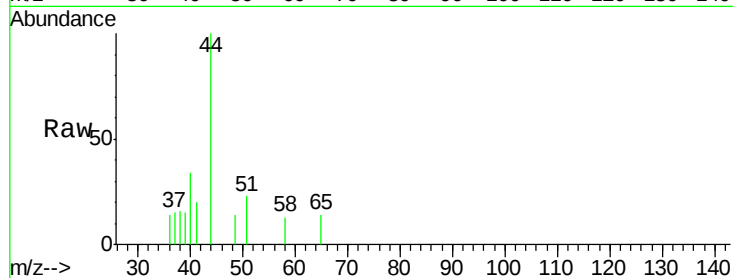
Delta R.T. 0.00 min

Lab File: VX002521.D

Acq: 13 Jun 2018 20:55

Instrument :
MSVOA_X
ClientSampleId :

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



#29

Tetrahydrofuran

Concen: 1.16 ug/l

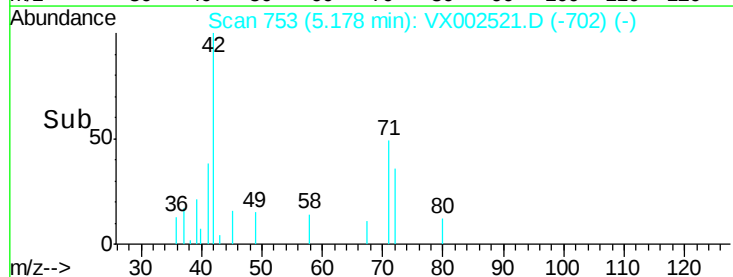
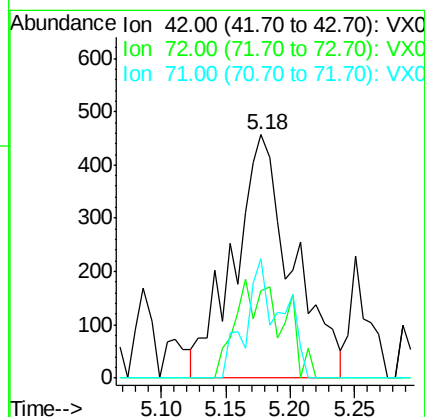
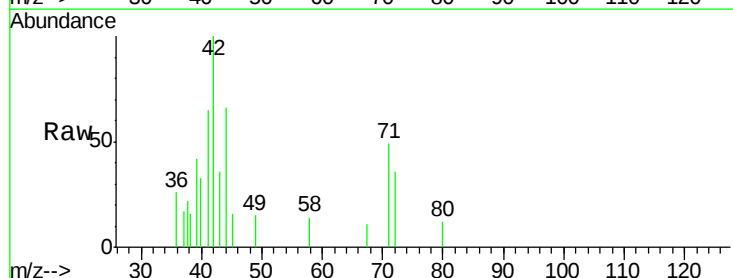
RT: 5.18 min Scan# 753

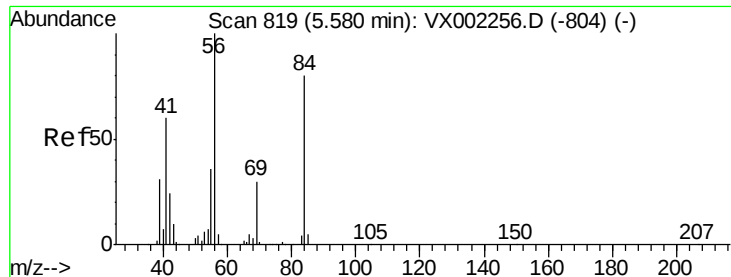
Delta R.T. 0.01 min

Lab File: VX002521.D

Acq: 13 Jun 2018 20:55

Tgt Ion	Ratio	Lower	Upper
42	100		
72	14.0	32.0	48.0#
71	24.9	30.1	45.1#

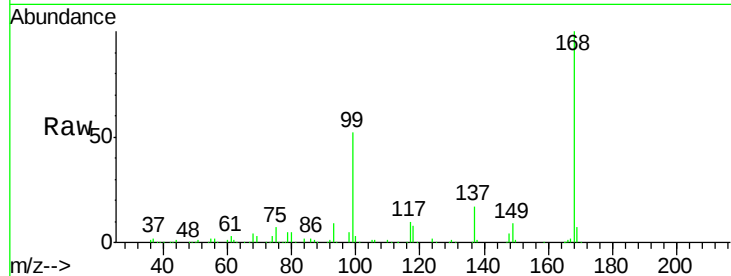




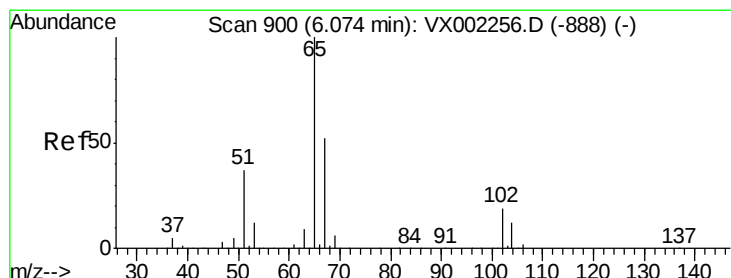
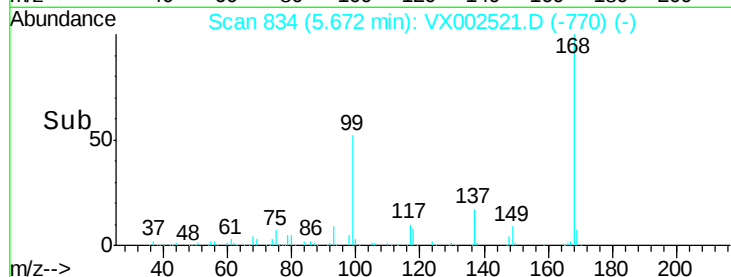
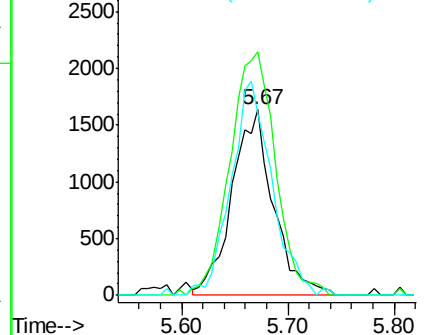
#31
Cyclohexane
Concen: 1.27 ug/l
RT: 5.67 min Scan# 834
Delta R.T. 0.09 min
Lab File: VX002521.D
Acq: 13 Jun 2018 20:55

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 4466
Ion Ratio Lower Upper
56 100
69 131.2 23.7 35.5#
84 97.9 64.1 96.1#

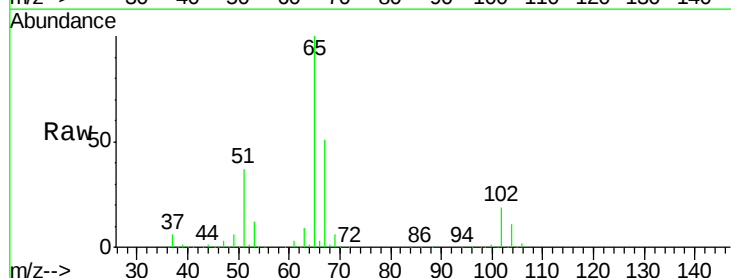


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

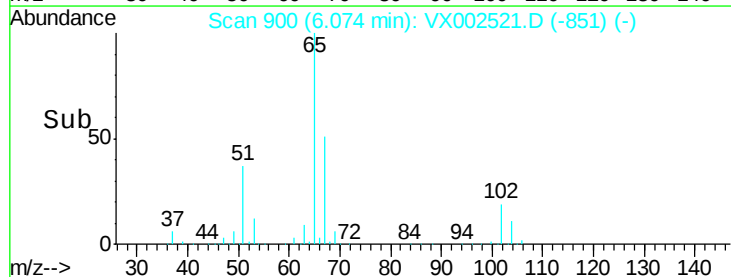
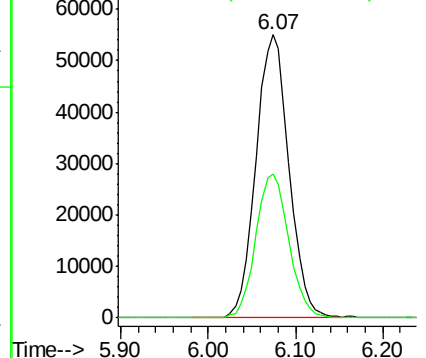


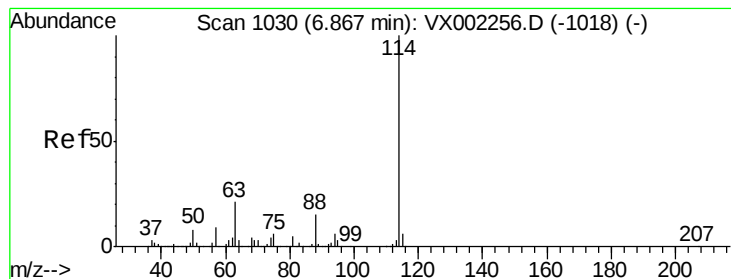
#33
1,2-Dichloroethane-d4
Concen: 51.61 ug/l
RT: 6.07 min Scan# 900
Delta R.T. -0.00 min
Lab File: VX002521.D
Acq: 13 Jun 2018 20:55

Tgt Ion: 65 Resp: 143895
Ion Ratio Lower Upper
65 100
67 50.9 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: VX002521.D

Acq: 13 Jun 2018 20:55

Instrument :

MSVOA_X

ClientSampleId :

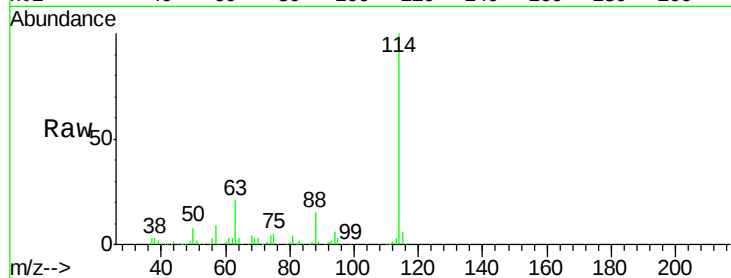
Tot Ion:114 Resp: 289524

Ion Ratio Lower Upper

114 100

63 20.5 0.0 41.4

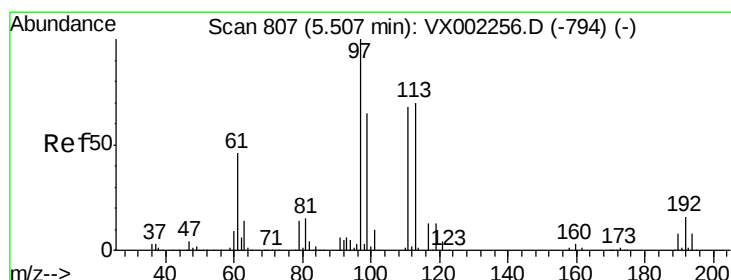
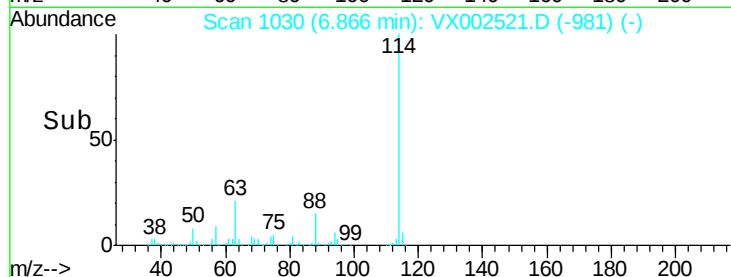
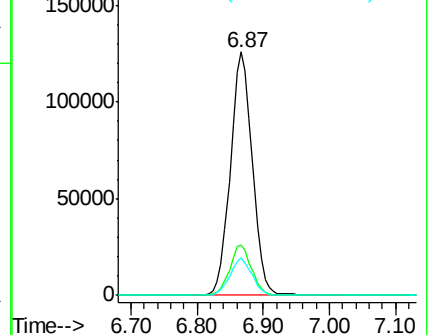
88 15.2 0.0 30.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 46.59 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002521.D

Acq: 13 Jun 2018 20:55

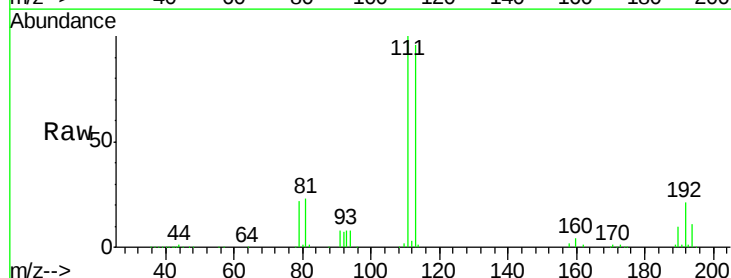
Tgt Ion:113 Resp: 106076

Ion Ratio Lower Upper

113 100

111 103.5 81.4 122.0

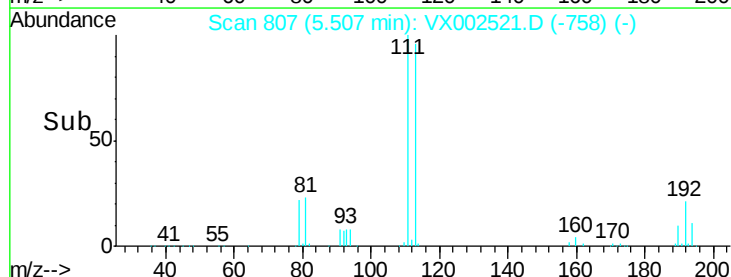
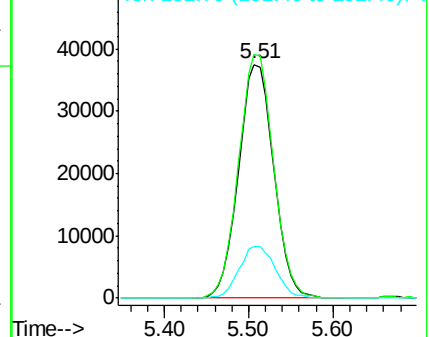
192 22.6 19.1 28.7

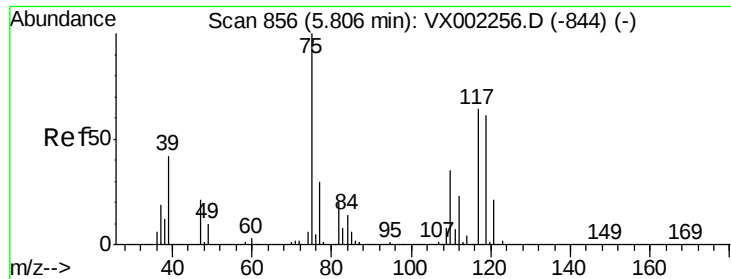


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

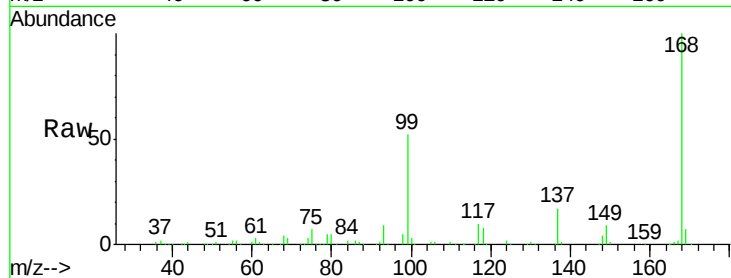




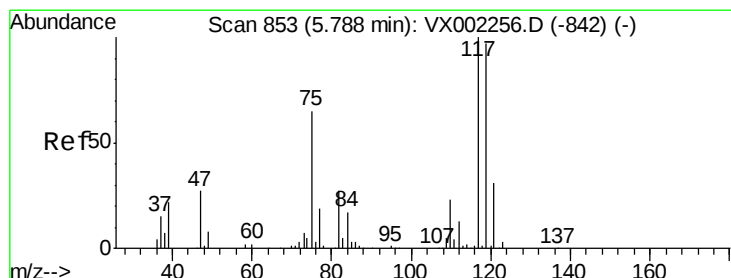
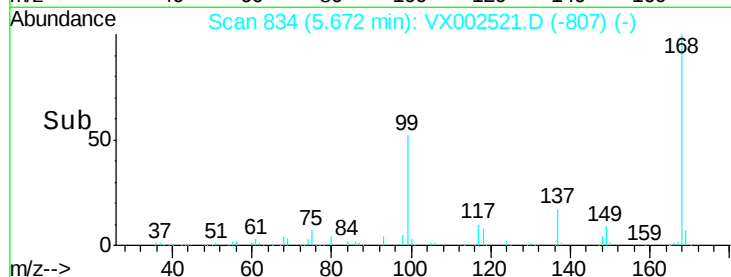
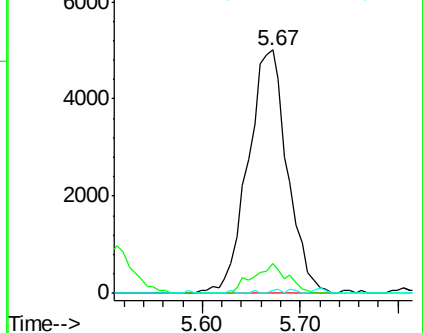
#36
 1,1-Dichloropropene
 Concen: 4.61 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX002521.D
 Acq: 13 Jun 2018 20:55

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 14044
 Ion Ratio Lower Upper
 75 100
 110 10.7 18.1 54.4#
 77 0.3 24.3 36.5#

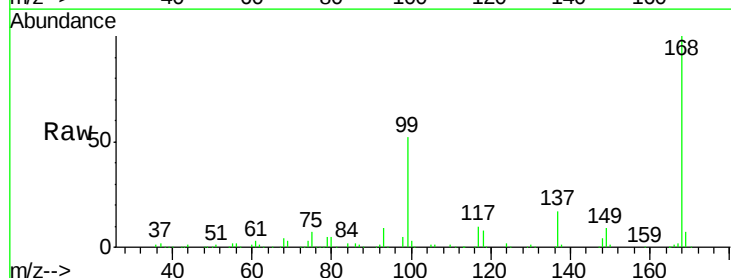


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

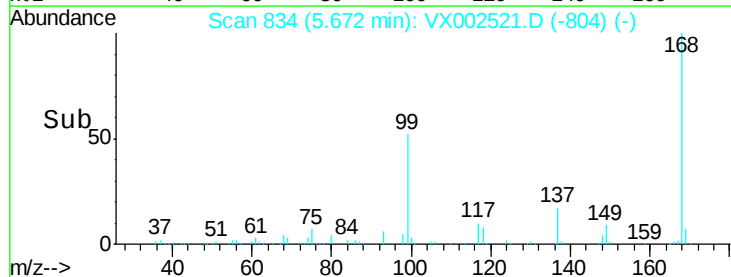
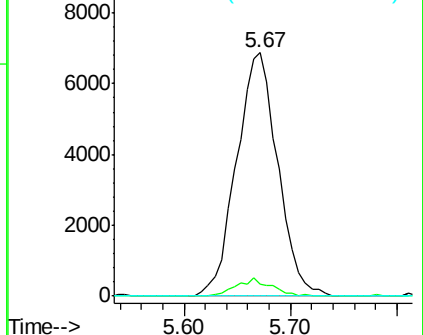


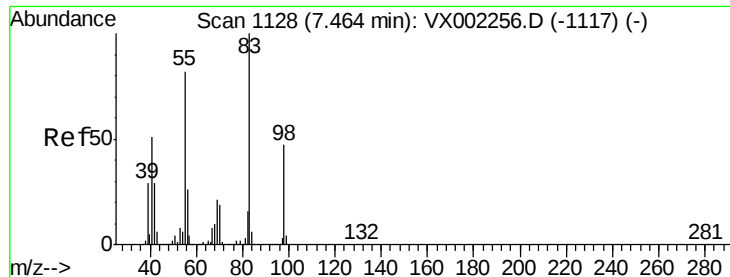
#38
 Carbon Tetrachloride
 Concen: 5.85 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX002521.D
 Acq: 13 Jun 2018 20:55

Tgt Ion: 117 Resp: 18630
 Ion Ratio Lower Upper
 117 100
 119 4.8 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

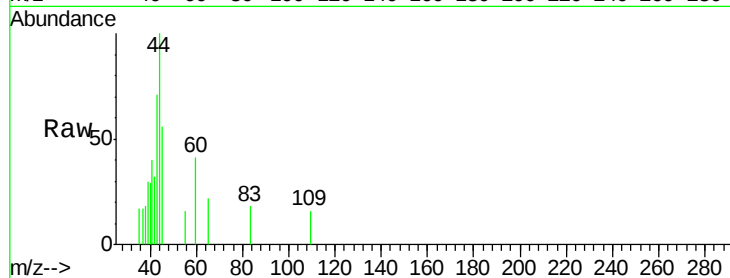




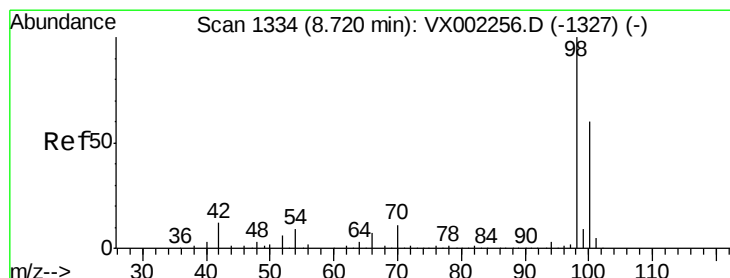
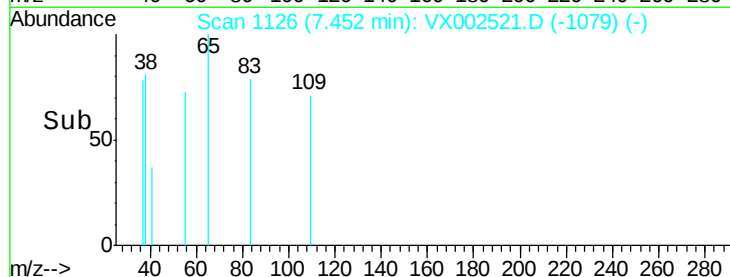
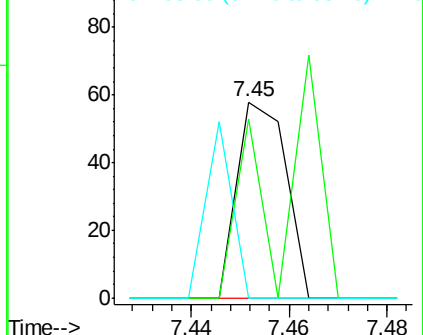
#39
Methylcyclohexane
Concen: 0.27 ug/l
RT: 7.45 min Scan# 1126
Delta R.T. -0.01 min
Lab File: VX002521.D
Acq: 13 Jun 2018 20:55

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 83 Resp: 40
Ion Ratio Lower Upper
83 100
55 91.4 65.4 98.0
98 0.0 37.4 56.0#

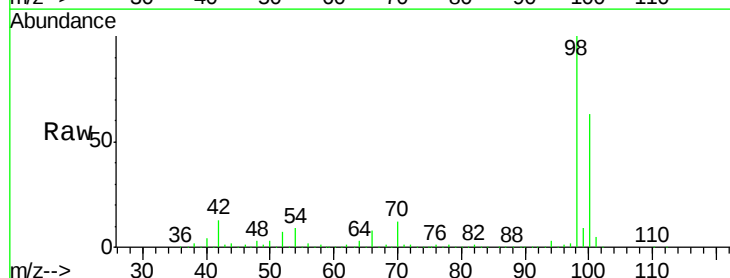


Abundance Ion 83.00 (82.70 to 83.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 98.00 (97.70 to 98.70): VX0

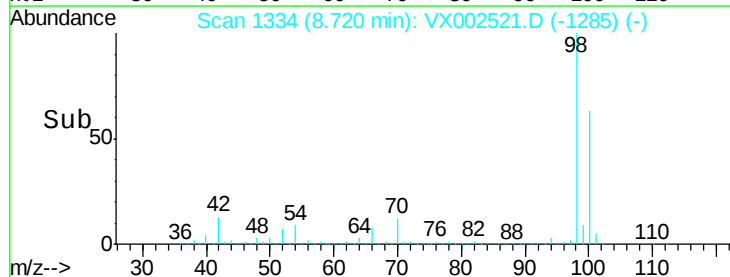
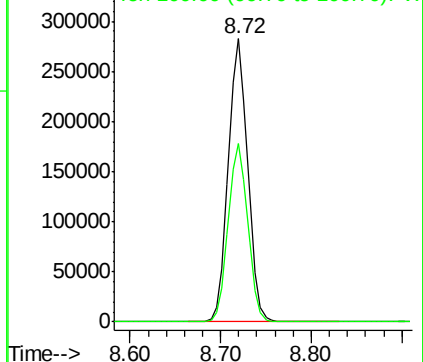


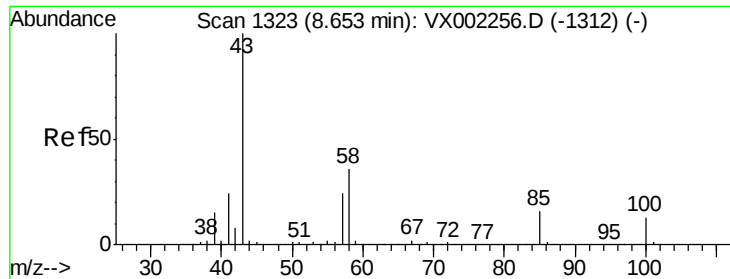
#50
Toluene-d8
Concen: 48.29 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX002521.D
Acq: 13 Jun 2018 20:55

Tgt Ion: 98 Resp: 421453
Ion Ratio Lower Upper
98 100
100 63.3 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: 0.59 ug/l

RT: 8.65 min Scan# 1323

Delta R.T. -0.00 min

Lab File: VX002521.D

Acq: 13 Jun 2018 20:55

Instrument :

MSVOA_X

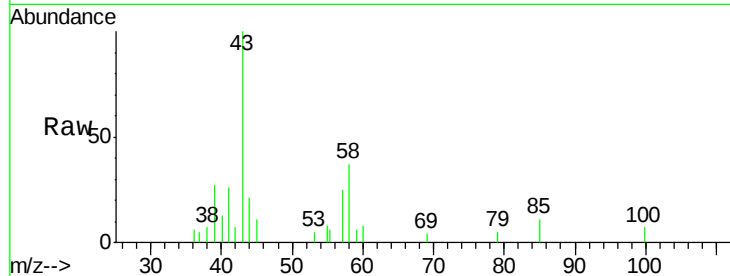
ClientSampleId :

Tot Ion: 43 Resp: 2293

Ion Ratio Lower Upper

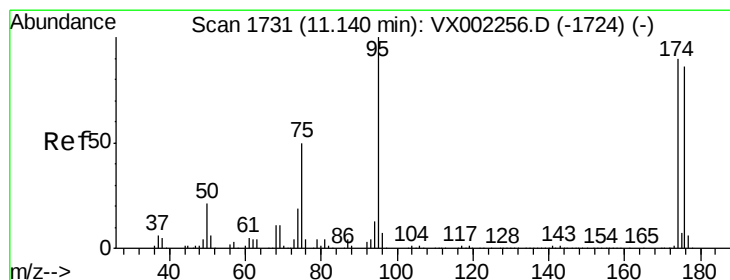
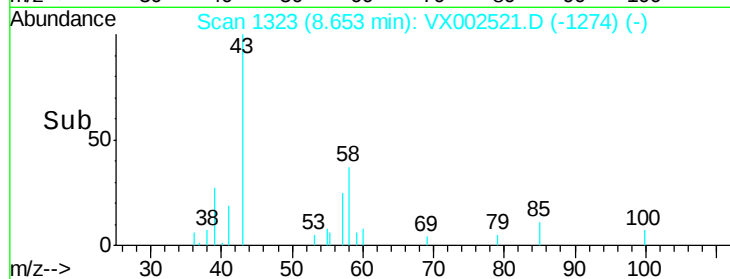
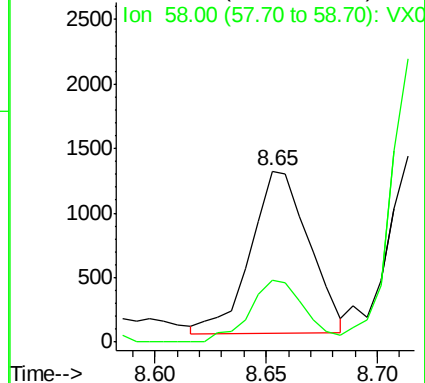
43 100

58 36.3 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: 44.19 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002521.D

Acq: 13 Jun 2018 20:55

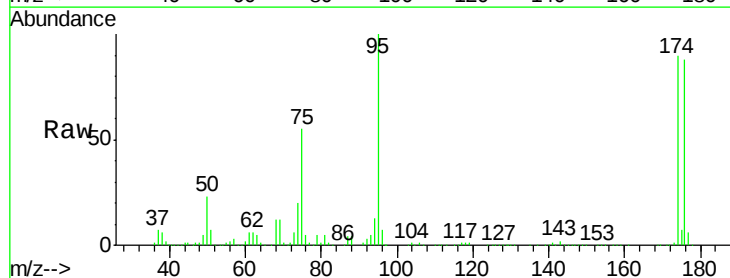
Tgt Ion: 95 Resp: 148701

Ion Ratio Lower Upper

95 100

174 94.9 0.0 187.4

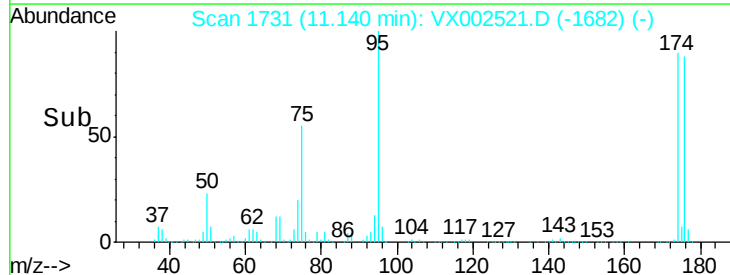
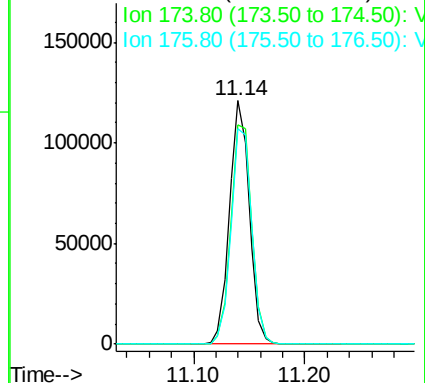
176 92.4 0.0 181.0

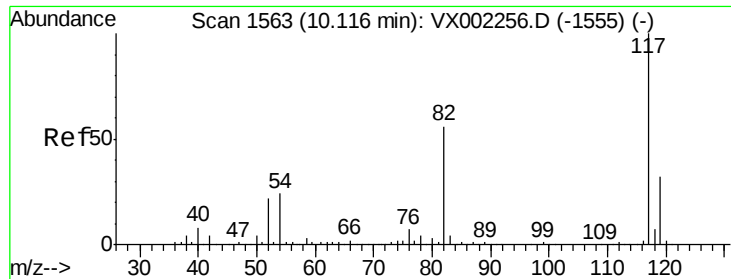


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

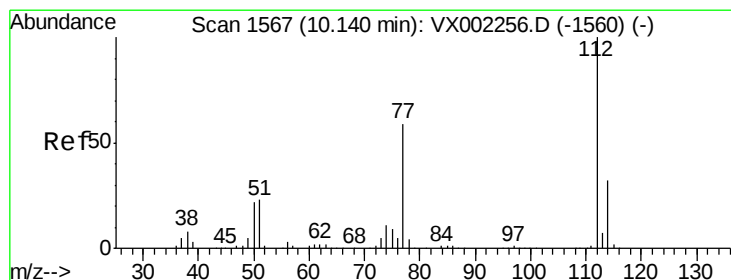
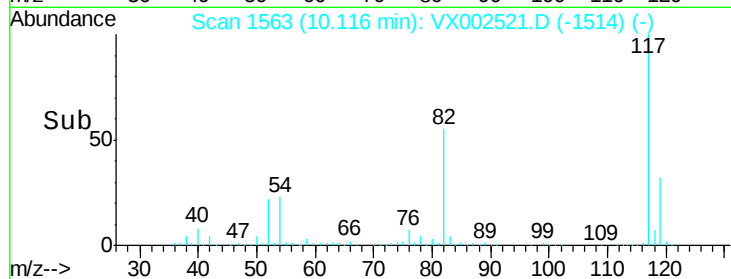
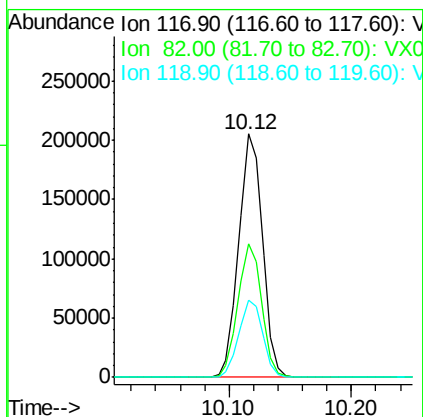
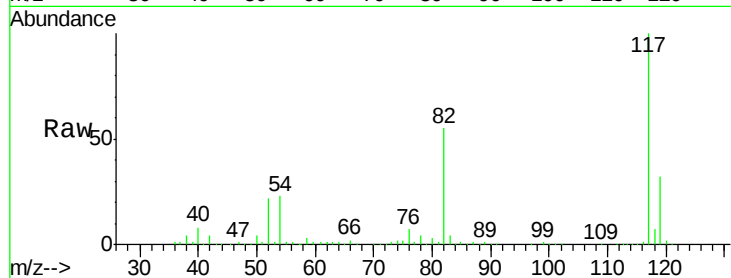




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002521.D
Acq: 13 Jun 2018 20:55

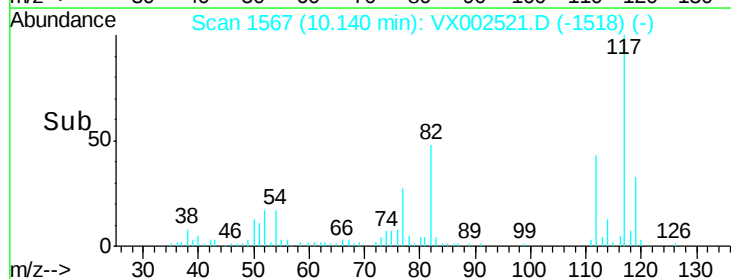
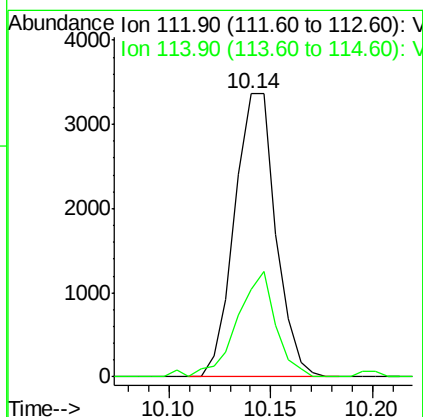
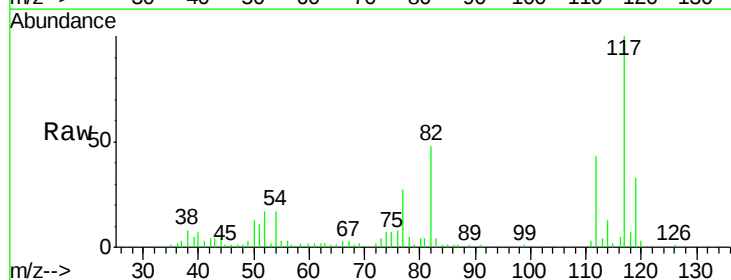
Instrument :
MSVOA_X
ClientSampleId :

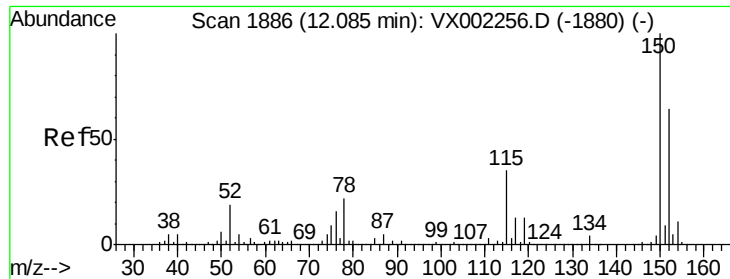
Tot Ion:117 Resp: 275707
Ion Ratio Lower Upper
117 100
82 54.9 45.0 67.4
119 31.7 25.8 38.6



#65
Chlorobenzene
Concen: 0.69 ug/l
RT: 10.14 min Scan# 1567
Delta R.T. -0.00 min
Lab File: VX002521.D
Acq: 13 Jun 2018 20:55

Tgt Ion:112 Resp: 4728
Ion Ratio Lower Upper
112 100
114 30.7 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: VX002521.D

Acq: 13 Jun 2018 20:55

Instrument :

MSVOA_X

ClientSampleId :

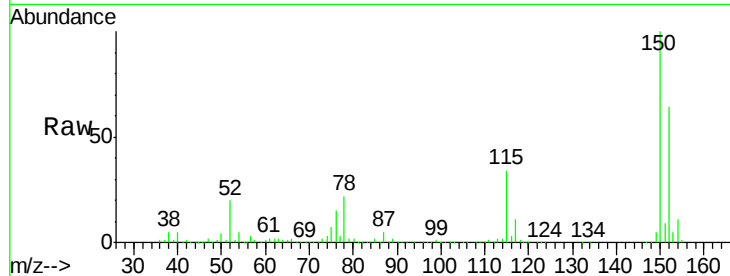
Tot Ion:152 Resp: 158801

Ion Ratio Lower Upper

152 100

115 55.3 40.1 120.2

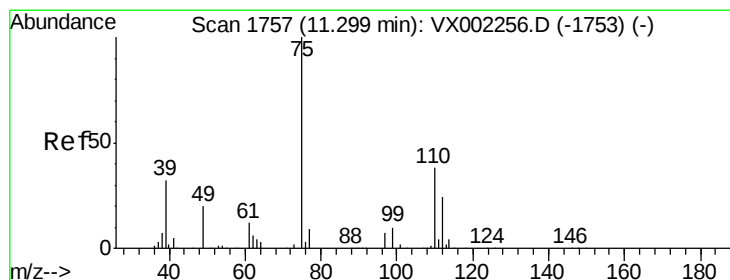
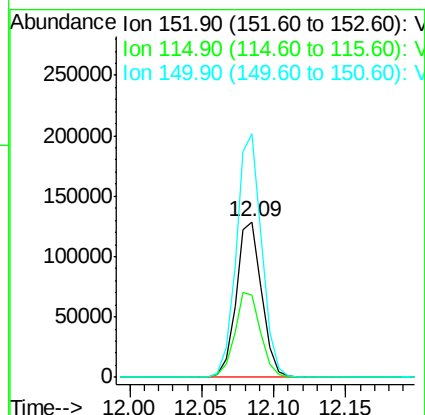
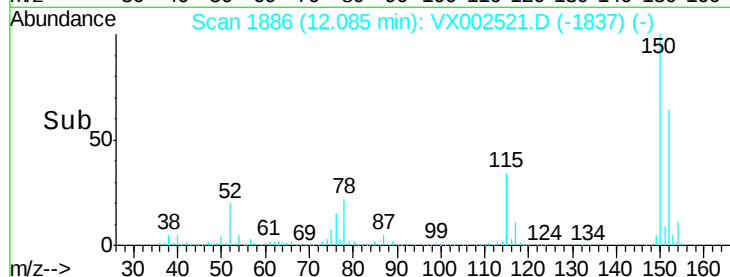
150 155.6 0.0 347.2



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: 23.37 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002521.D

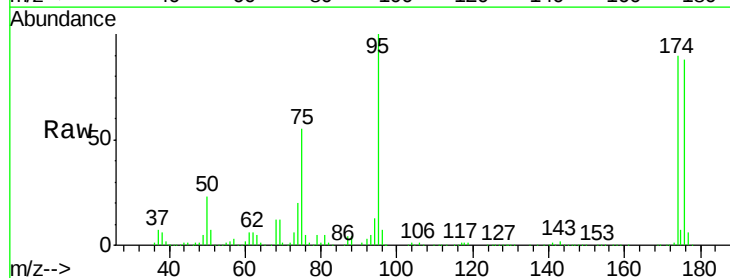
Acq: 13 Jun 2018 20:55

Tgt Ion: 75 Resp: 81420

Ion Ratio Lower Upper

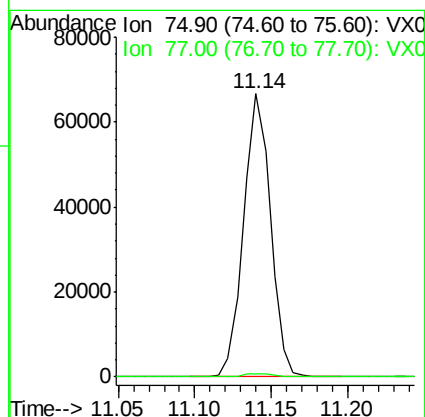
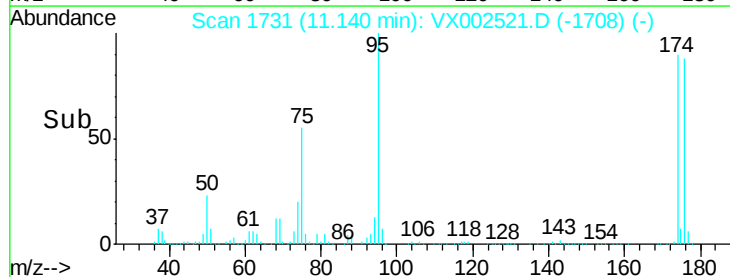
75 100

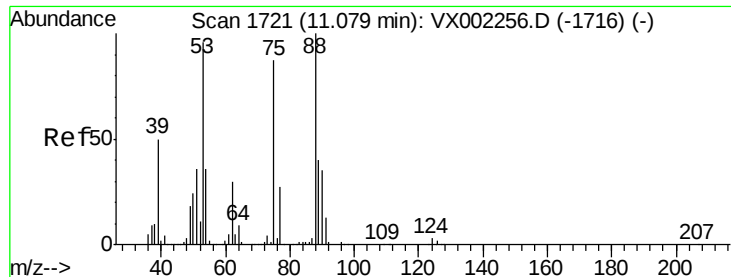
77 1.3 22.8 68.3#



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: 81.91 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002521.D

Acq: 13 Jun 2018 20:55

Instrument :

MSVOA_X

ClientSampleId :

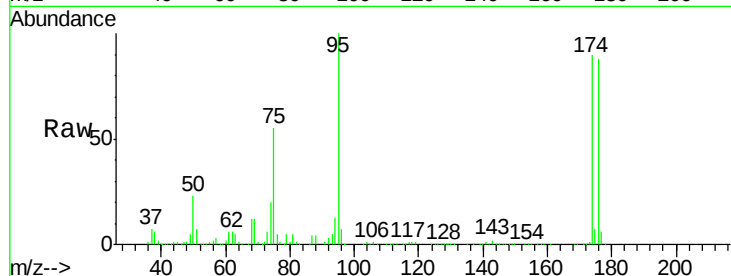
Tot Ion: 75 Resp: 81420

Ion Ratio Lower Upper

75 100

53 0.3 86.8 130.2#

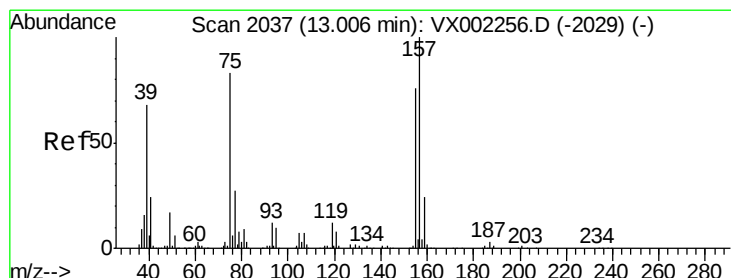
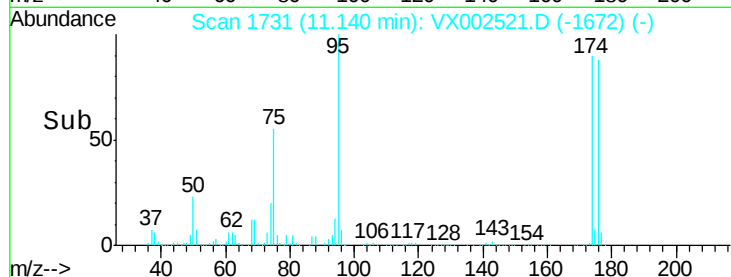
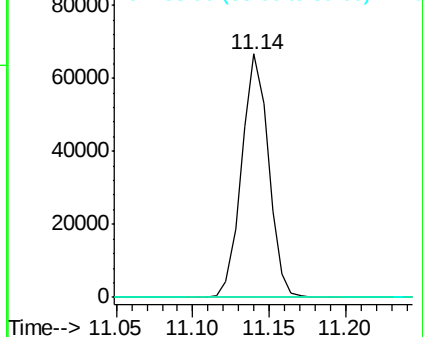
89 0.0 38.2 57.2#



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: 0.31 ug/l

RT: 12.98 min Scan# 2033

Delta R.T. -0.02 min

Lab File: VX002521.D

Acq: 13 Jun 2018 20:55

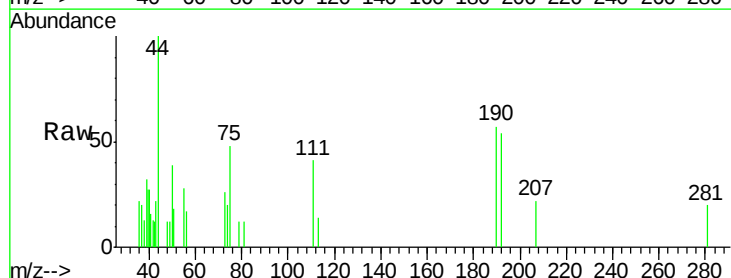
Tgt Ion: 75 Resp: 233

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

