

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061218\
 Data File : VX002492.D
 Acq On : 13 Jun 2018 03:31
 Operator : JC/MD
 Sample : J3444-12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 13 04:05:31 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	211290	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	312209	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	296189	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	168647	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	154766	51.31	ug/l	0.00
Spiked Amount			Recovery	=	102.62%	
35) Dibromofluoromethane	5.51	113	114442	46.61	ug/l	0.00
Spiked Amount			Recovery	=	93.22%	
50) Toluene-d8	8.72	98	454967	48.35	ug/l	0.00
Spiked Amount			Recovery	=	96.70%	
62) 4-Bromofluorobenzene	11.14	95	160235	44.15	ug/l	0.00
Spiked Amount			Recovery	=	88.30%	

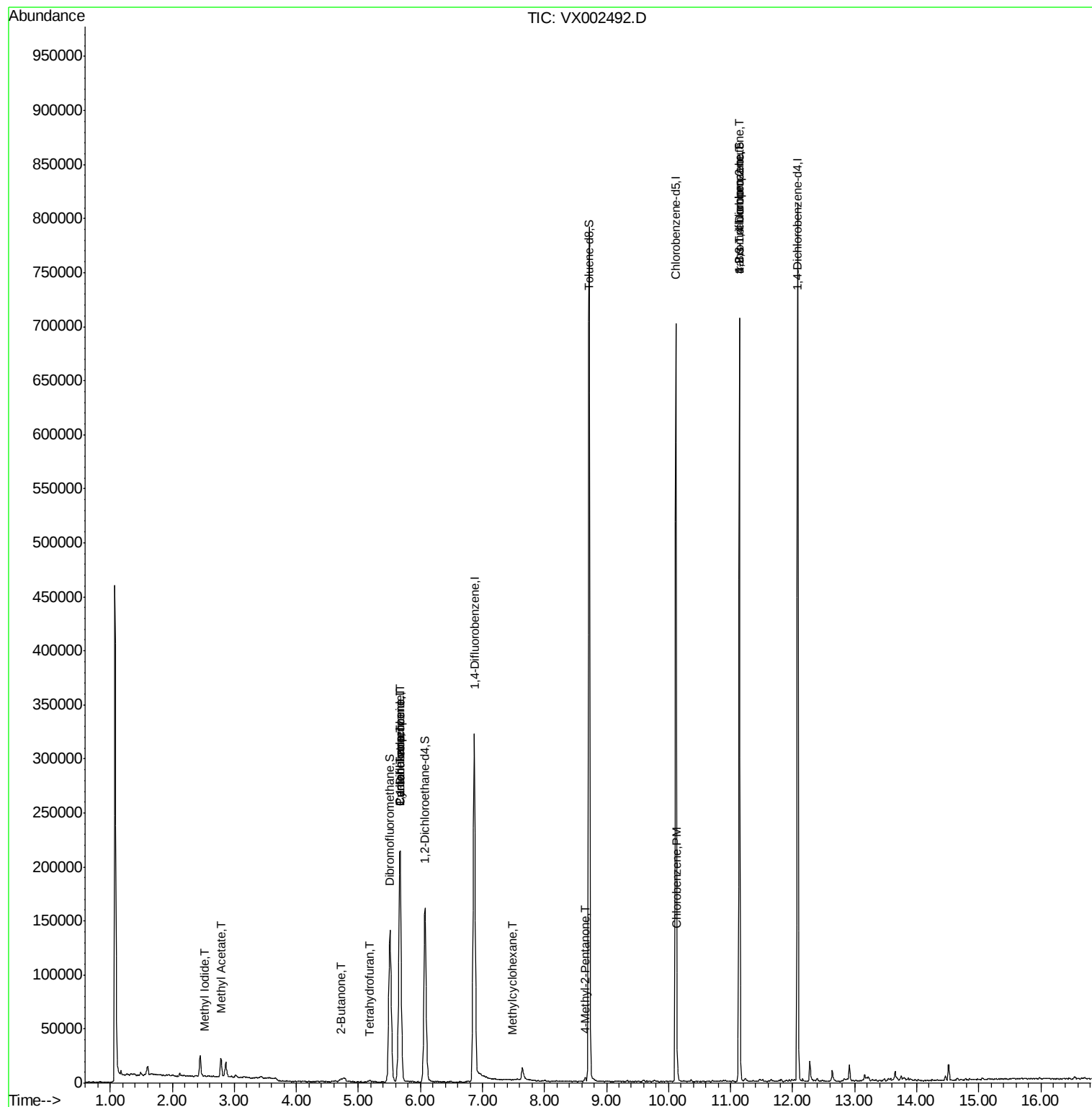
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	324	Below Cal		91
5) Bromomethane	1.65	94	428	Below Cal		94
8) Diethyl Ether	2.20	74	175	Below Cal	#	1
10) Methyl Iodide	2.52	142	839	0.26	ug/l	97
11) Tert butyl alcohol	3.06	59	56	Below Cal	#	1
13) Acrolein	2.30	56	430	Below Cal	#	14
15) Acrylonitrile	3.14	53	191	Below Cal	#	21
16) Acetone	2.45	43	21387	Below Cal		96
18) Methyl Acetate	2.78	43	21379	4.61	ug/l	98
19) Methyl tert-butyl Ether	3.21	73	68	Below Cal	#	54
20) Methylene Chloride	2.86	84	5544	Below Cal		90
22) Diisopropyl ether	3.89	45	97	Below Cal	#	71
25) 2-Butanone	4.72	43	4671	2.25	ug/l	96
28) Bromochloromethane	5.03	49	79	Below Cal	#	13
29) Tetrahydrofuran	5.17	42	1529	1.14	ug/l	# 70
31) Cyclohexane	5.67	56	4683	1.23	ug/l	# 1
36) 1,1-Dichloropropene	5.67	75	15103	4.60	ug/l	# 51
38) Carbon Tetrachloride	5.67	117	20558	5.99	ug/l	# 16
39) Methylcyclohexane	7.47	83	23	0.27	ug/l	# 24
51) 4-Methyl-2-Pentanone	8.65	43	2232	0.53	ug/l	92
65) Chlorobenzene	10.14	112	2139	0.29	ug/l	95
76) 1,2,3-Trichloropropane	11.14	75	87728	23.71	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	87728	83.10	ug/l	# 7

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002492.D

Acq: 13 Jun 2018 03:31

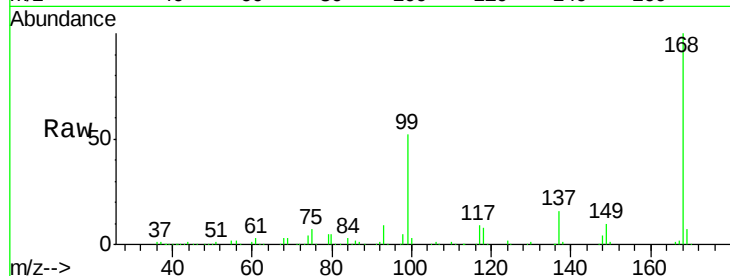
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 211290

Ion Ratio Lower Upper

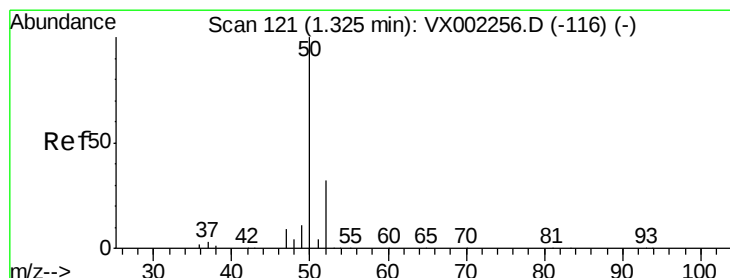
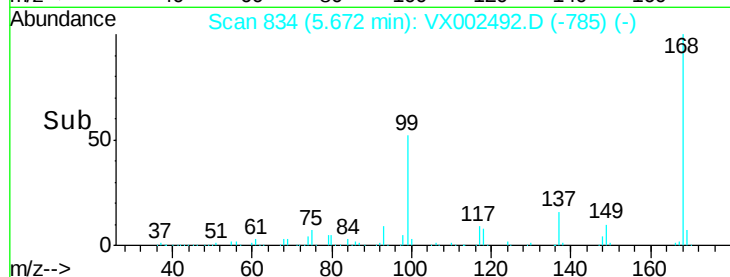
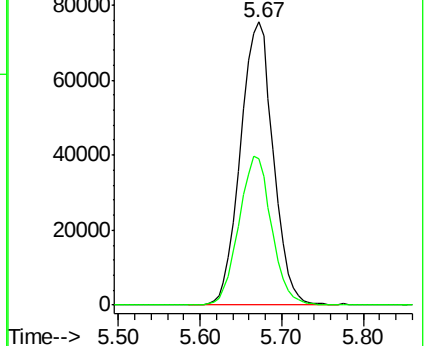
168 100

99 51.7 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002492.D

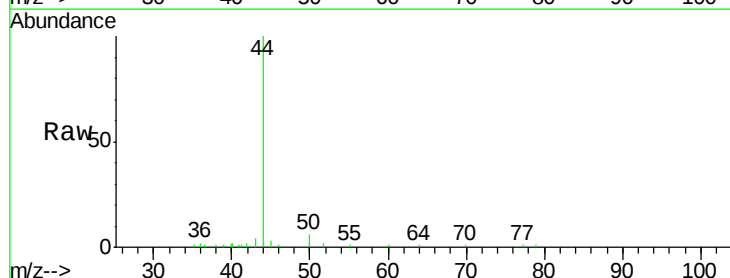
Acq: 13 Jun 2018 03:31

Tgt Ion: 50 Resp: 324

Ion Ratio Lower Upper

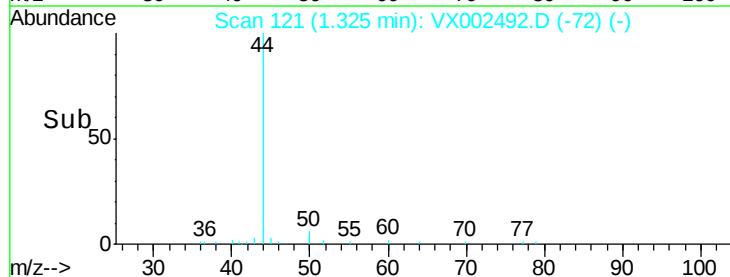
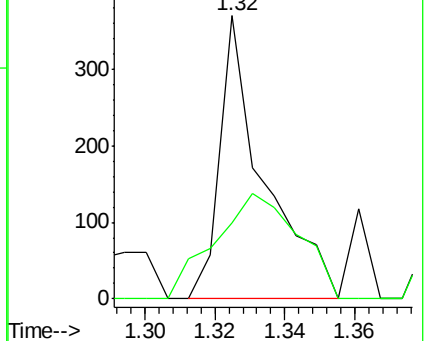
50 100

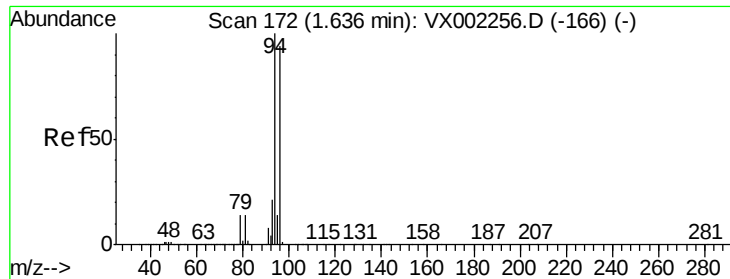
52 27.1 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002492.D

Acq: 13 Jun 2018 03:31

Instrument :

MSVOA_X

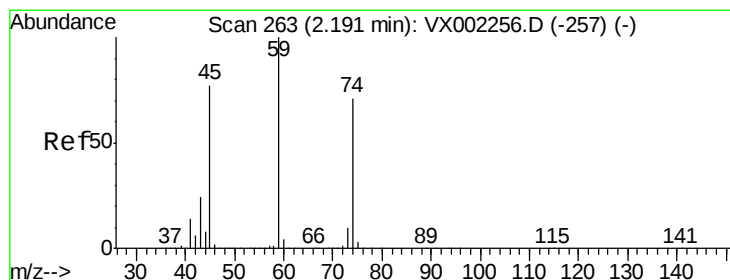
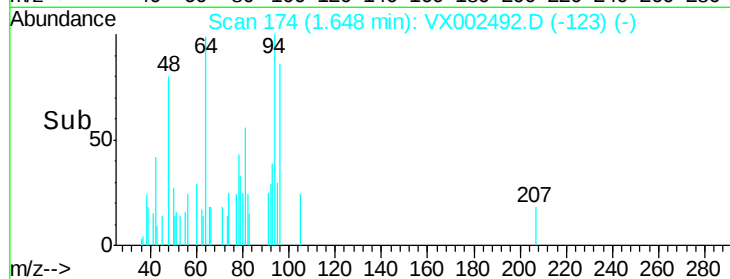
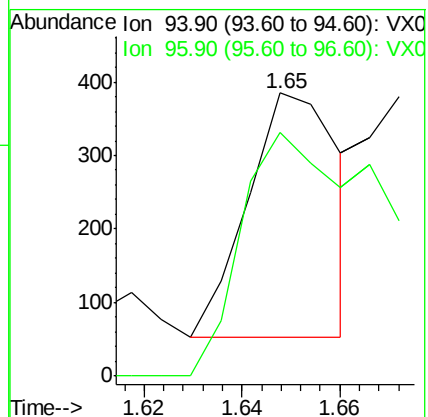
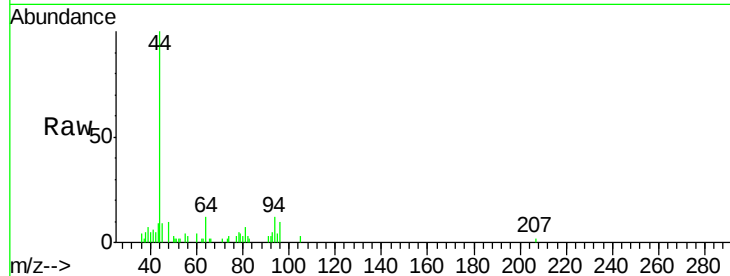
ClientSampled :

Tot Ion: 94 Resp: 428

Ion Ratio Lower Upper

94 100

96 99.7 74.9 112.3



#8

Diethyl Ether

Concen: Below Cal

RT: 2.20 min Scan# 264

Delta R.T. 0.01 min

Lab File: VX002492.D

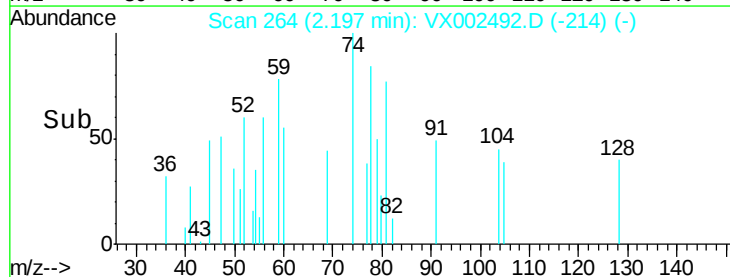
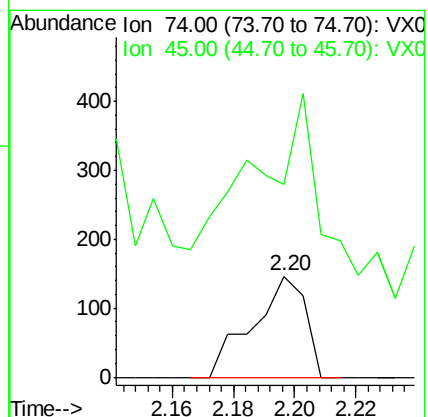
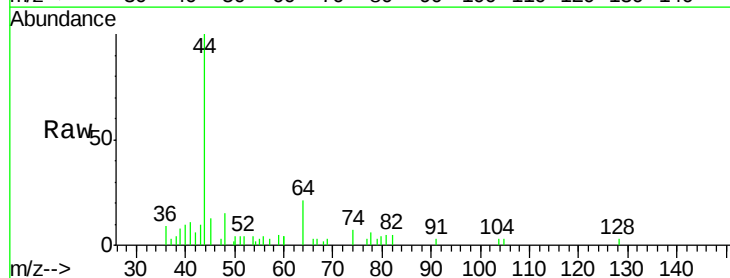
Acq: 13 Jun 2018 03:31

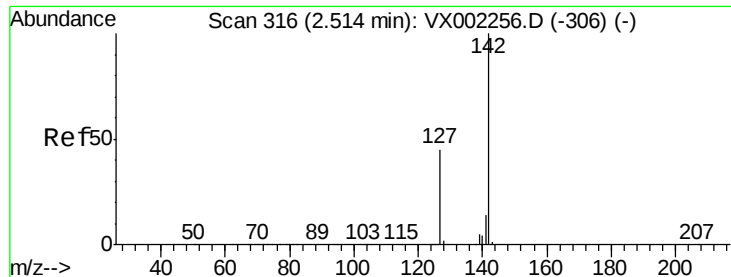
Tgt Ion: 74 Resp: 175

Ion Ratio Lower Upper

74 100

45 289.1 53.1 159.4#

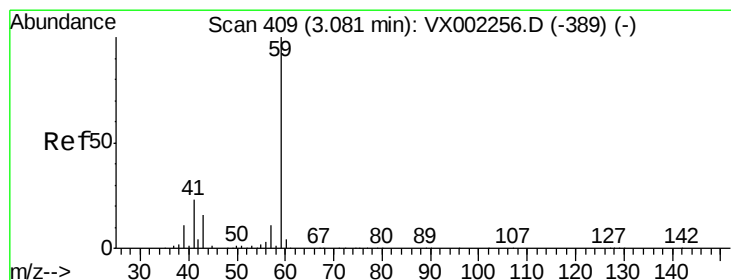
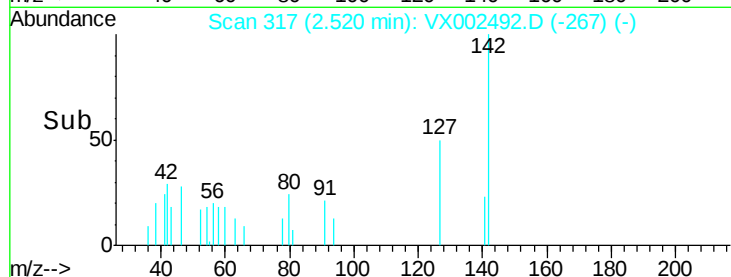
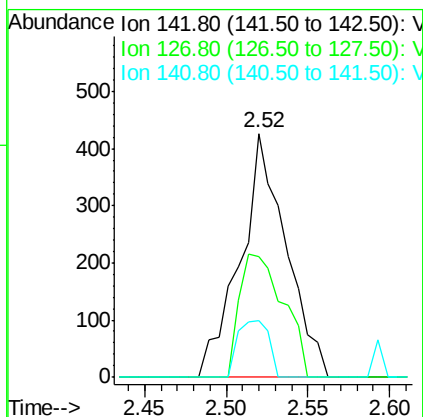
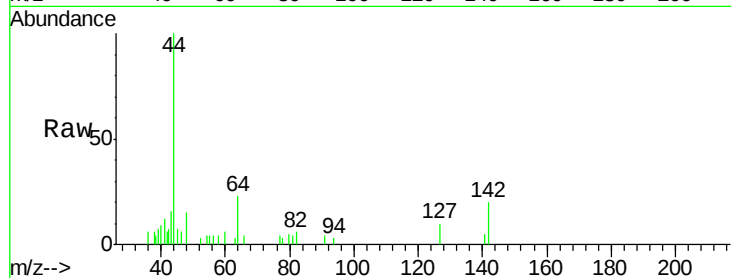




#10
Methyl Iodide
Concen: 0.26 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX002492.D
Acq: 13 Jun 2018 03:31

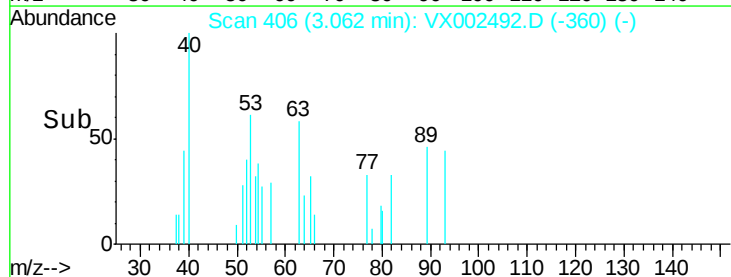
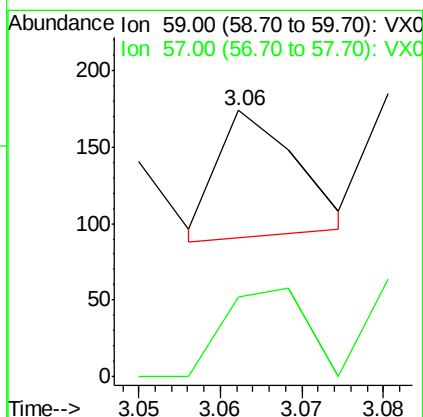
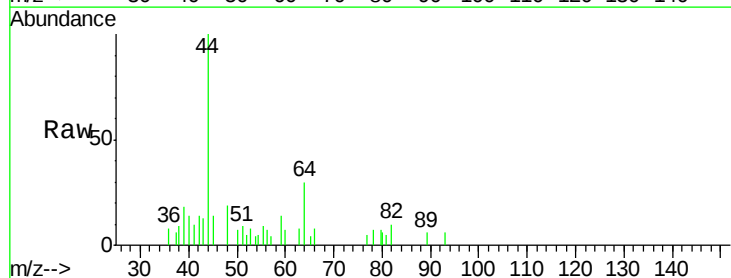
Instrument :
MSVOA_X
ClientSampled :

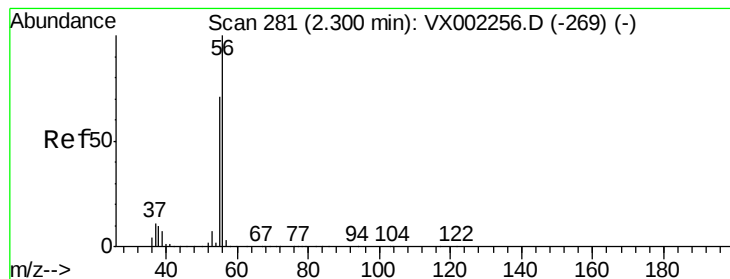
Tot Ion:142 Resp: 839
Ion Ratio Lower Upper
142 100
127 48.0 36.6 55.0
141 15.5 11.3 16.9



#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.06 min Scan# 406
Delta R.T. -0.02 min
Lab File: VX002492.D
Acq: 13 Jun 2018 03:31

Tgt Ion: 59 Resp: 56
Ion Ratio Lower Upper
59 100
57 71.4 8.2 12.2#





#13

Acrolein

Concen: Below Cal

RT: 2.30 min Scan# 281

Delta R.T. 0.00 min

Lab File: VX002492.D

Acq: 13 Jun 2018 03:31

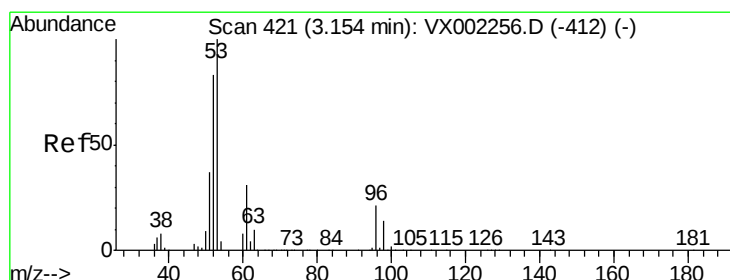
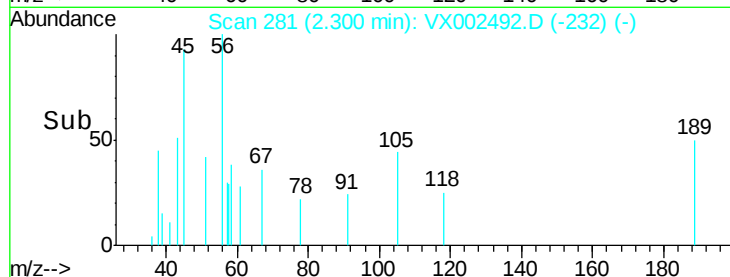
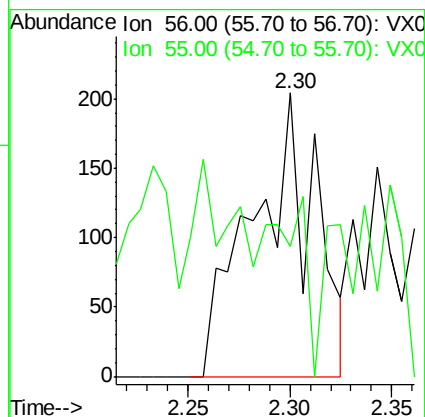
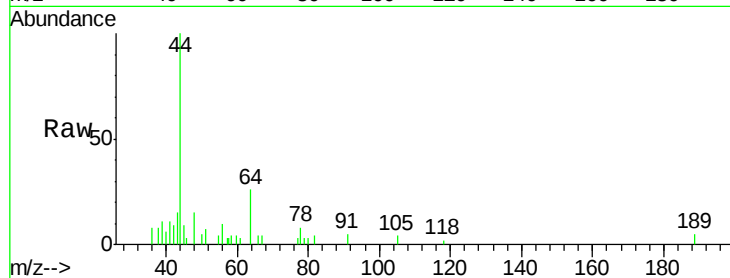
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 430

Ion Ratio Lower Upper

56 100

55 0.0 57.0 85.4#



#15

Acrylonitrile

Concen: Below Cal

RT: 3.14 min Scan# 419

Delta R.T. -0.01 min

Lab File: VX002492.D

Acq: 13 Jun 2018 03:31

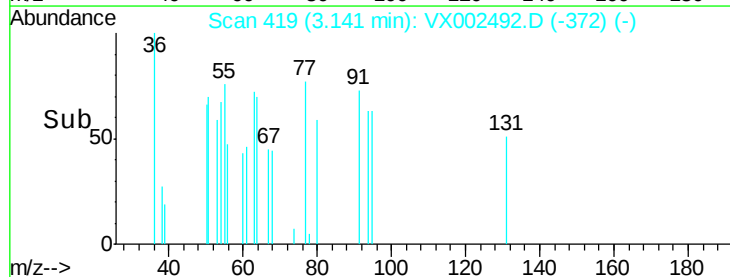
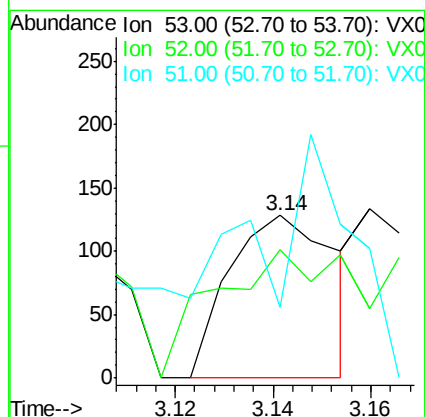
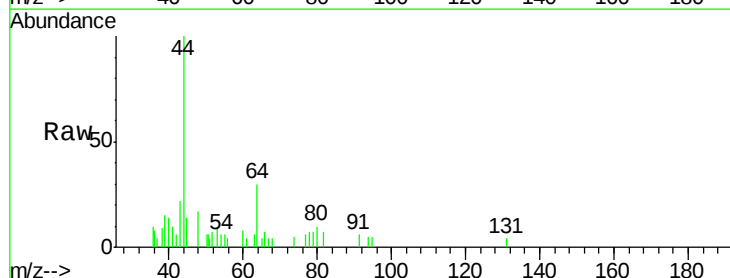
Tgt Ion: 53 Resp: 191

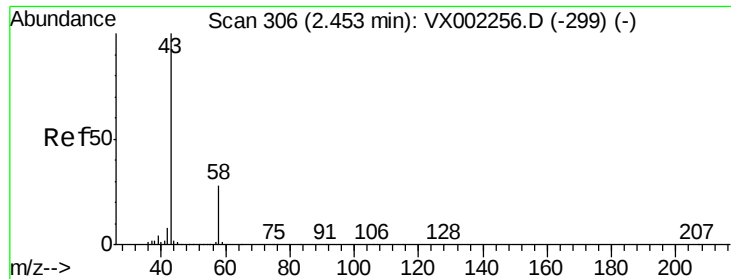
Ion Ratio Lower Upper

53 100

52 102.6 66.7 100.1#

51 161.3 29.9 44.9#





#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002492.D

Acq: 13 Jun 2018 03:31

Instrument :

MSVOA_X

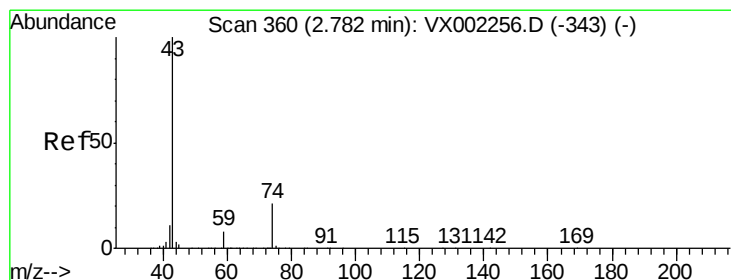
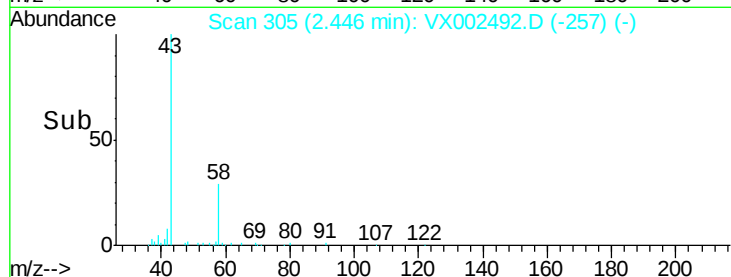
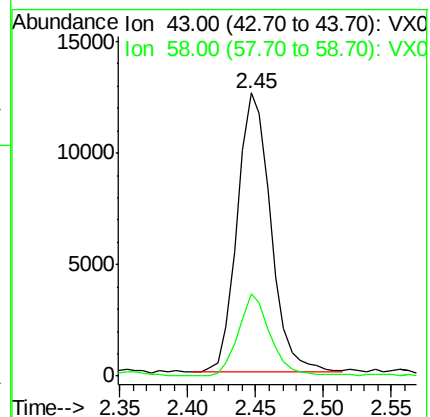
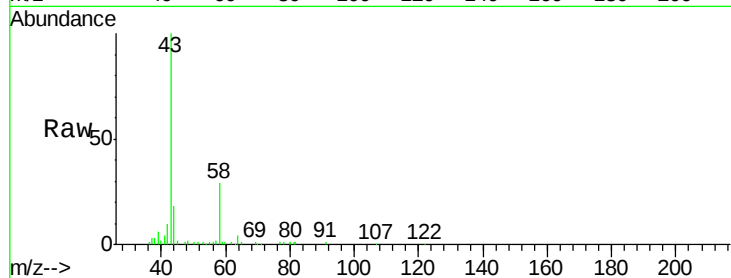
ClientSampleId :

Tot Ion: 43 Resp: 21387

Ion Ratio Lower Upper

43 100

58 29.7 22.1 33.1



#18

Methyl Acetate

Concen: 4.61 ug/l

RT: 2.78 min Scan# 360

Delta R.T. -0.00 min

Lab File: VX002492.D

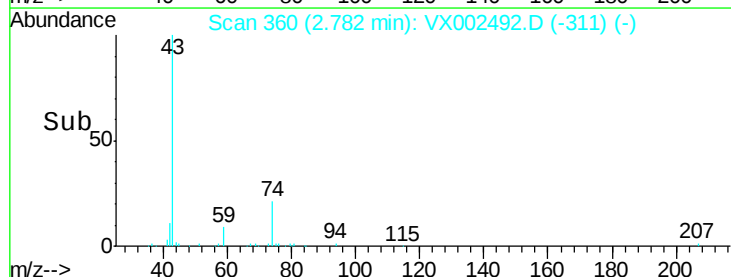
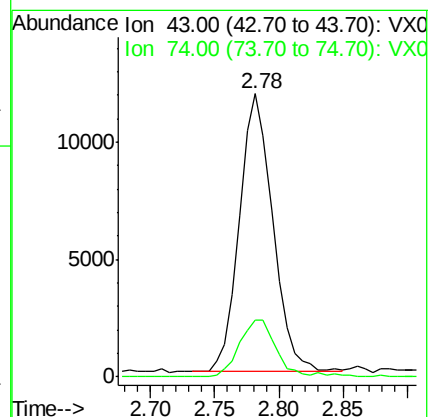
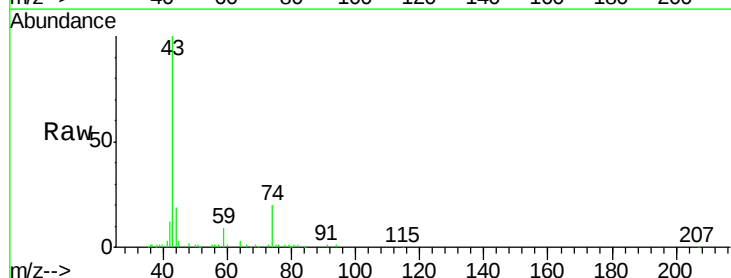
Acq: 13 Jun 2018 03:31

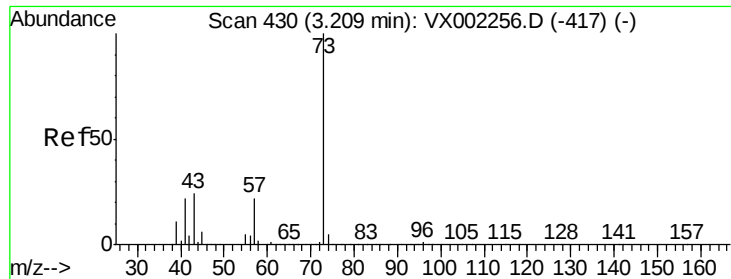
Tgt Ion: 43 Resp: 21379

Ion Ratio Lower Upper

43 100

74 22.0 16.7 25.1

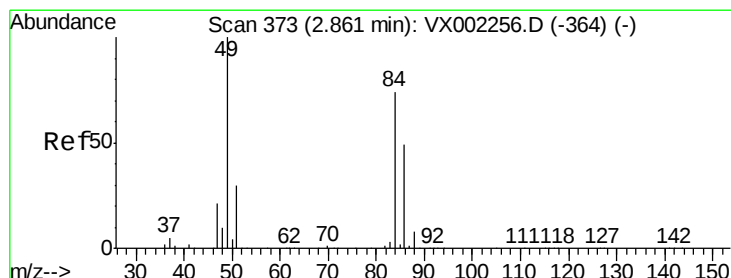
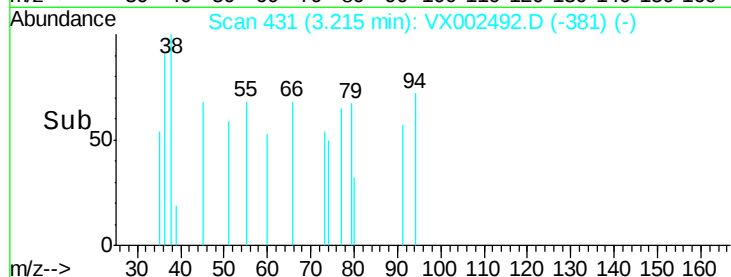
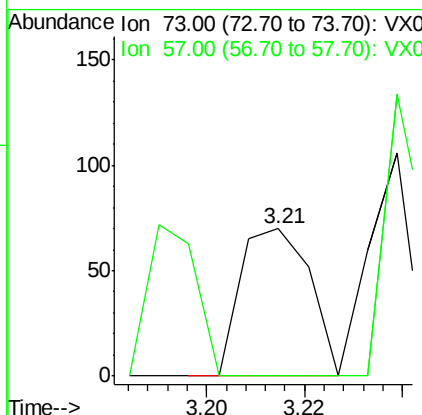
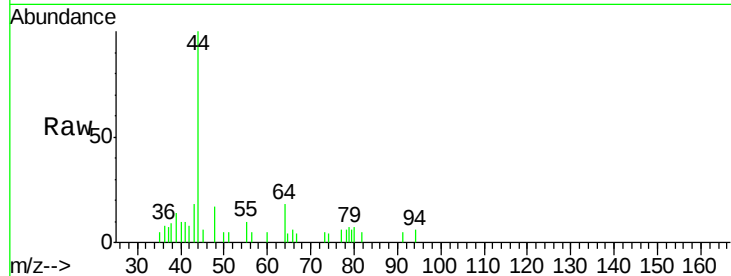




#19
Methvl tert-butvl Ether
Concen: Below Cal
RT: 3.21 min Scan# 431
Delta R.T. 0.01 min
Lab File: VX002492.D
Acq: 13 Jun 2018 03:31

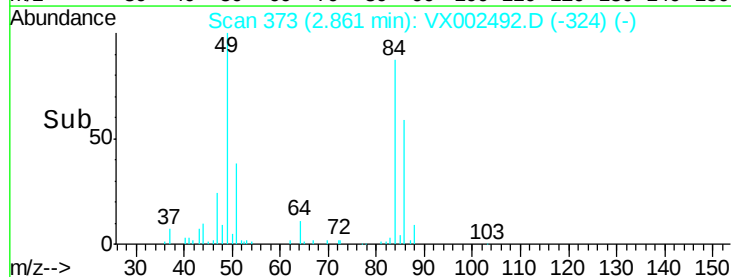
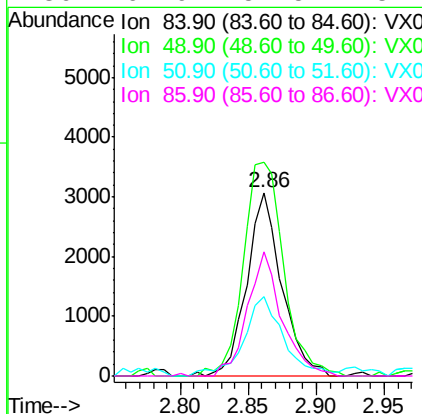
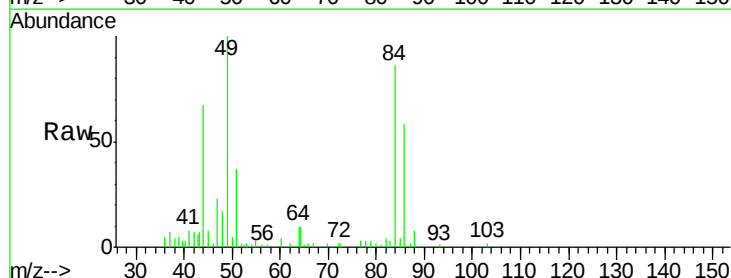
Instrument :
MSVOA_X
ClientSampleId :

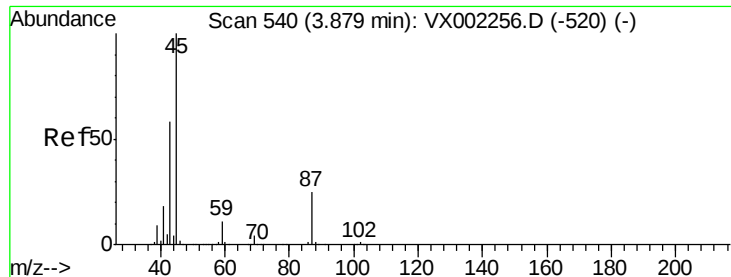
Tot Ion: 73 Resp: 68
Ion Ratio Lower Upper
73 100
57 0.0 17.7 26.5#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002492.D
Acq: 13 Jun 2018 03:31

Tgt Ion: 84 Resp: 5544
Ion Ratio Lower Upper
84 100
49 116.4 107.8 161.6
51 43.2 32.8 49.2
86 67.9 52.5 78.7

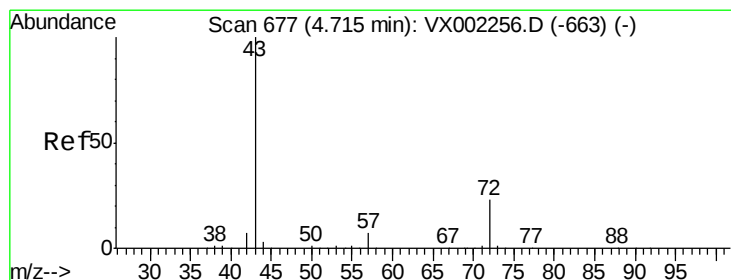
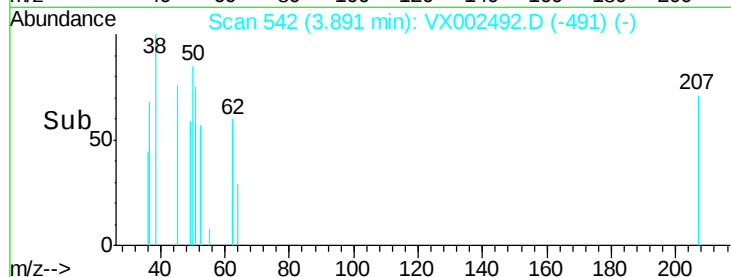
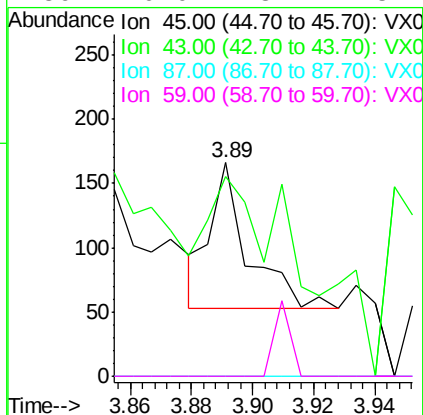
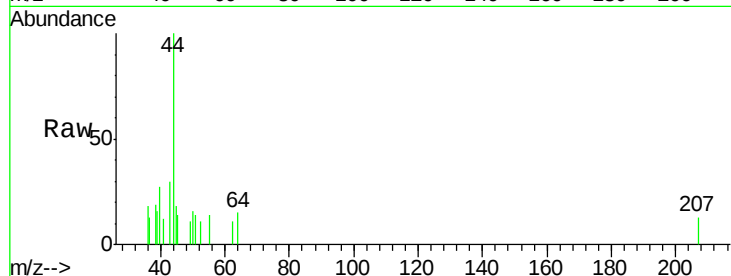




#22
Diisopropyl ether
Concen: Below Cal
RT: 3.89 min Scan# 542
Delta R.T. 0.01 min
Lab File: VX002492.D
Acq: 13 Jun 2018 03:31

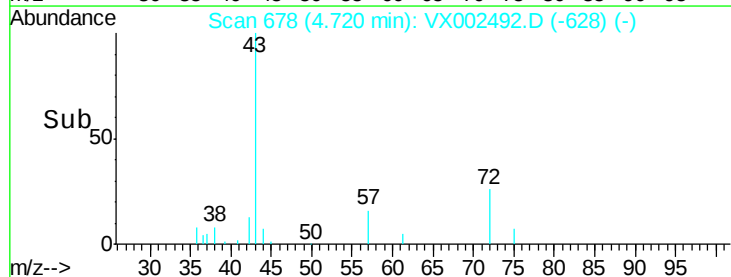
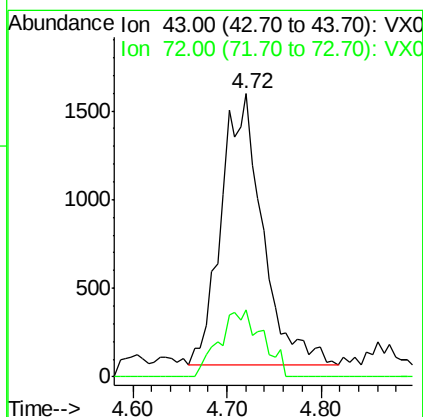
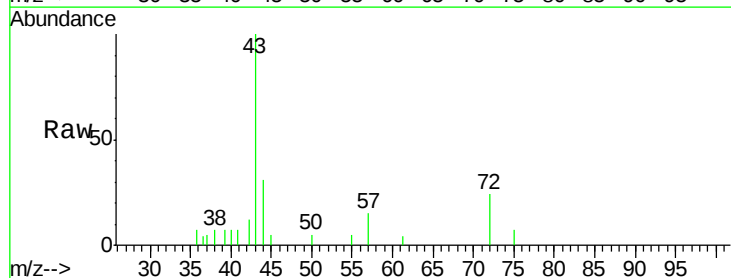
Instrument :
MSVOA_X
ClientSampleId :

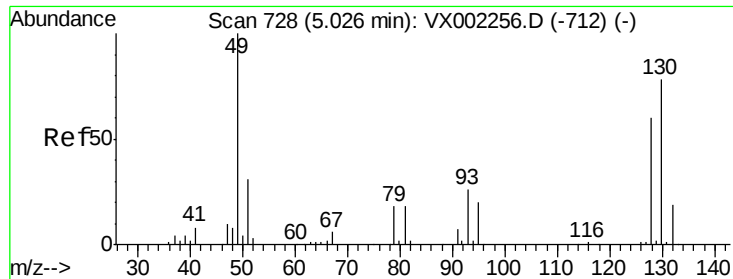
Tot Ion: 45 Resp: 97
Ion Ratio Lower Upper
45 100
43 73.5 46.8 70.2#
87 0.0 20.2 30.4#
59 0.0 8.7 13.1#



#25
2-Butanone
Concen: 2.25 ug/l
RT: 4.72 min Scan# 678
Delta R.T. 0.01 min
Lab File: VX002492.D
Acq: 13 Jun 2018 03:31

Tgt Ion: 43 Resp: 4671
Ion Ratio Lower Upper
43 100
72 24.9 18.5 27.7





#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 728

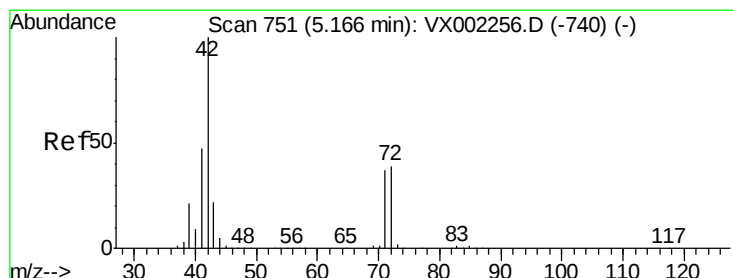
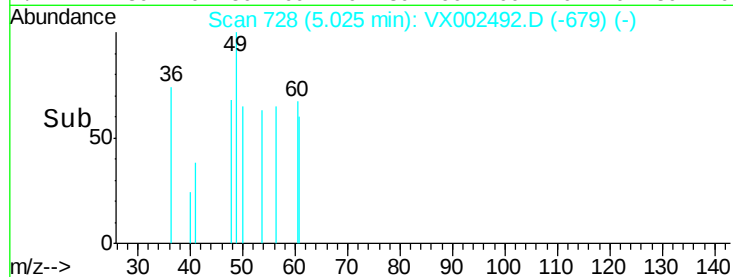
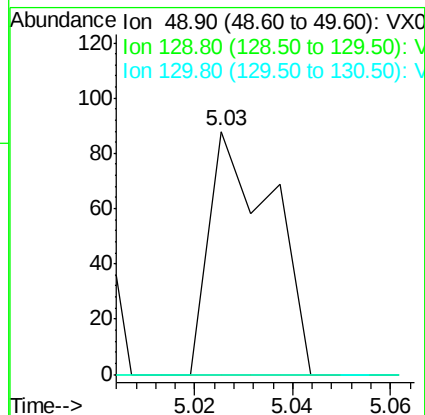
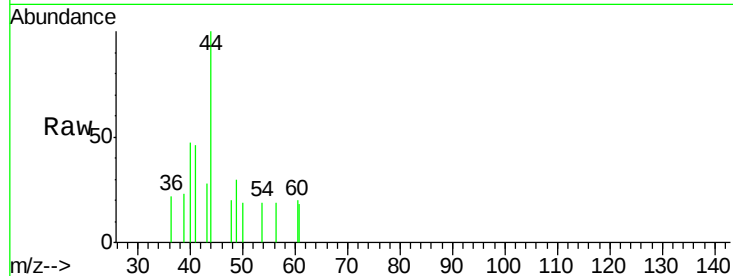
Delta R.T. 0.00 min

Lab File: VX002492.D

Acq: 13 Jun 2018 03:31

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 49 Resp: 79
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.2
130 0.0 61.2 91.8#



#29

Tetrahydrofuran

Concen: 1.14 ug/l

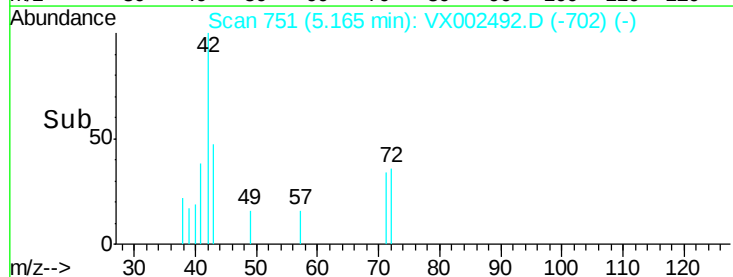
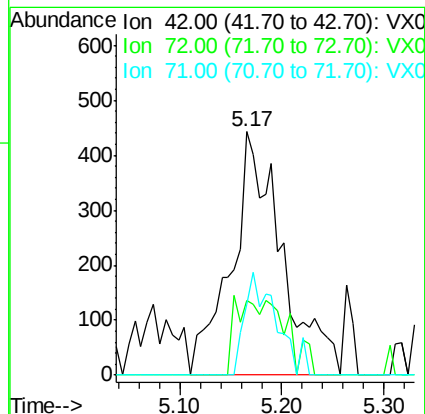
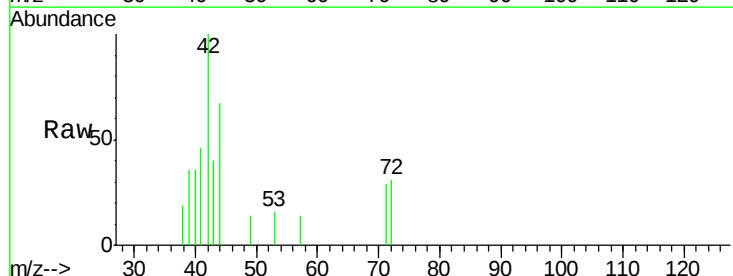
RT: 5.17 min Scan# 751

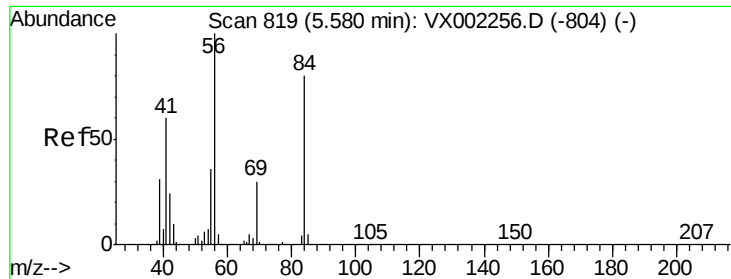
Delta R.T. -0.00 min

Lab File: VX002492.D

Acq: 13 Jun 2018 03:31

Tgt Ion: 42 Resp: 1529
Ion Ratio Lower Upper
42 100
72 14.8 32.0 48.0#
71 26.3 30.1 45.1#

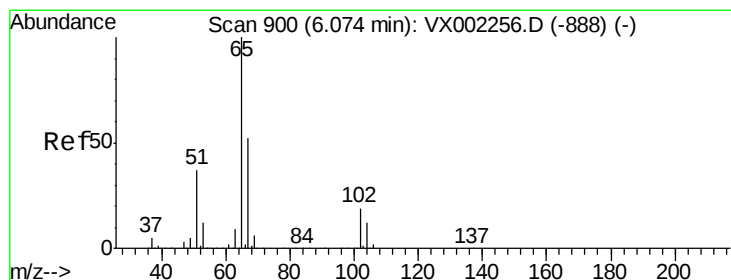
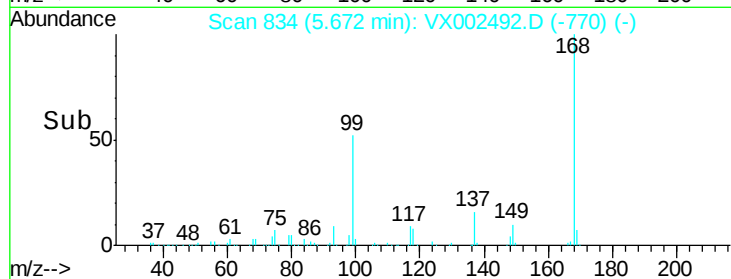
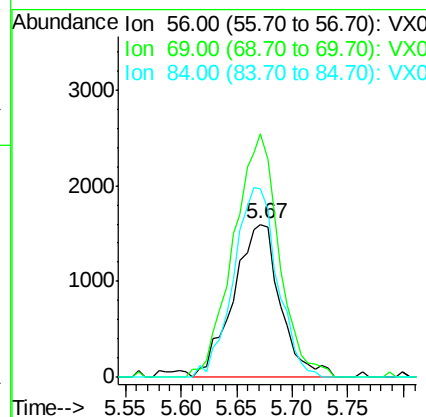
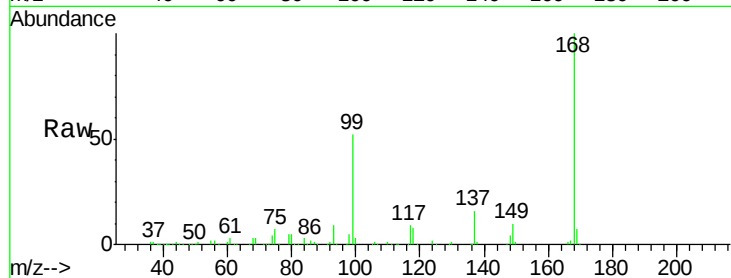




#31
Cvclohexane
Concen: 1.23 ug/l
RT: 5.67 min Scan# 834
Delta R.T. 0.09 min
Lab File: VX002492.D
Acq: 13 Jun 2018 03:31

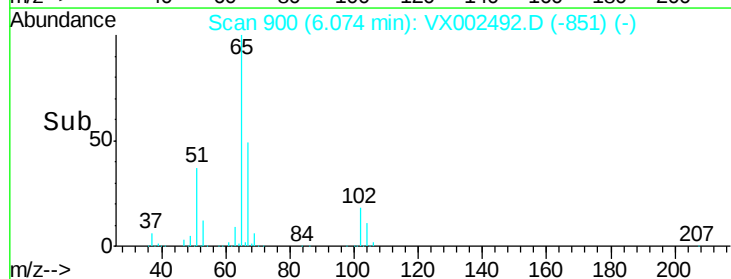
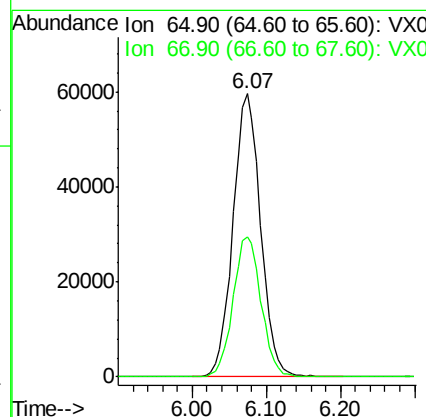
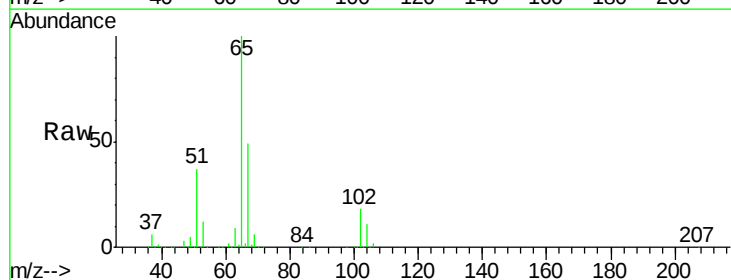
Instrument :
MSVOA_X
ClientSampleId :

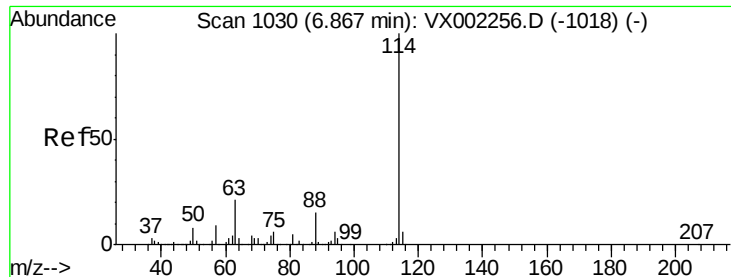
Tot Ion: 56 Resp: 4683
Ion Ratio Lower Upper
56 100
69 159.0 23.7 35.5#
84 123.2 64.1 96.1#



#33
1,2-Dichloroethane-d4
Concen: 51.31 ug/l
RT: 6.07 min Scan# 900
Delta R.T. -0.00 min
Lab File: VX002492.D
Acq: 13 Jun 2018 03:31

Tgt Ion: 65 Resp: 154766
Ion Ratio Lower Upper
65 100
67 50.2 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: VX002492.D

Acq: 13 Jun 2018 03:31

Instrument :
MSVOA_X
ClientSampleId :

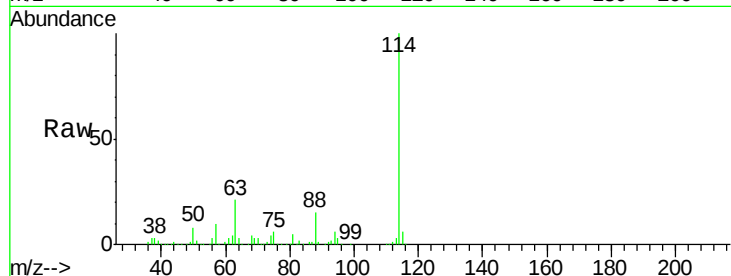
Tot Ion:114 Resp: 312209

Ion Ratio Lower Upper

114 100

63 20.5 0.0 41.4

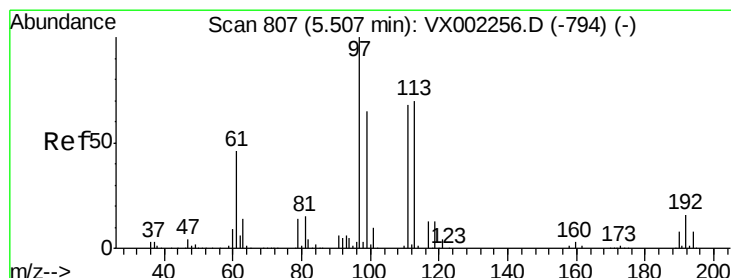
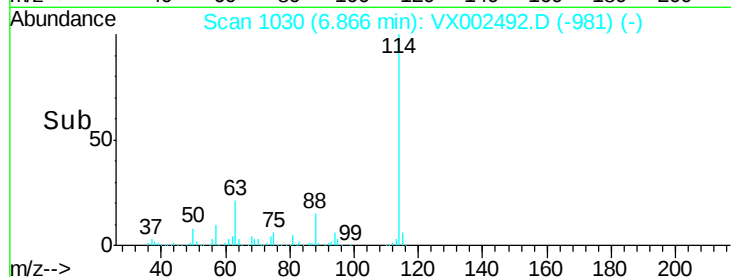
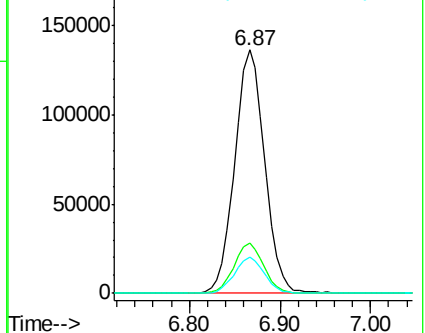
88 15.1 0.0 30.0



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: 46.61 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002492.D

Acq: 13 Jun 2018 03:31

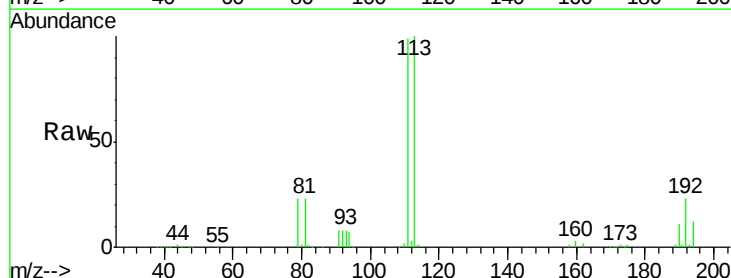
Tgt Ion:113 Resp: 114442

Ion Ratio Lower Upper

113 100

111 103.3 81.4 122.0

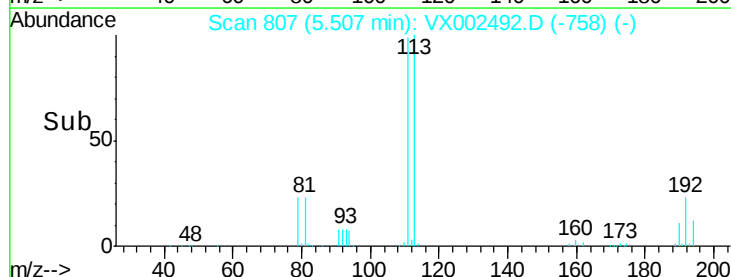
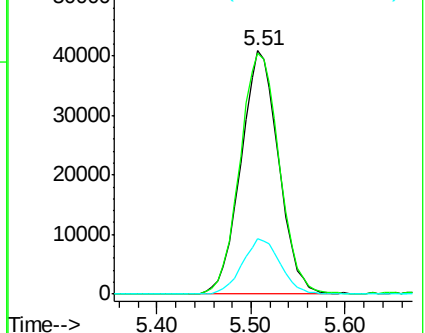
192 22.8 19.1 28.7

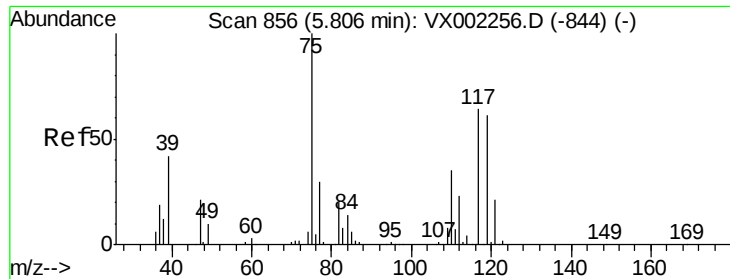


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

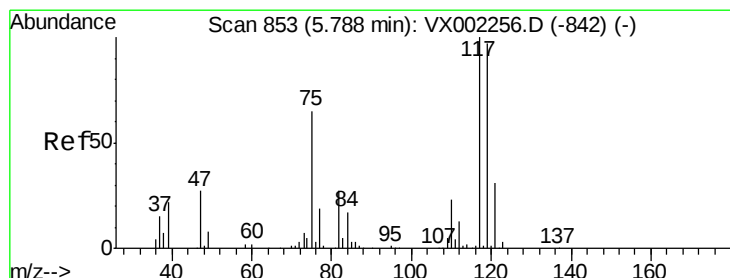
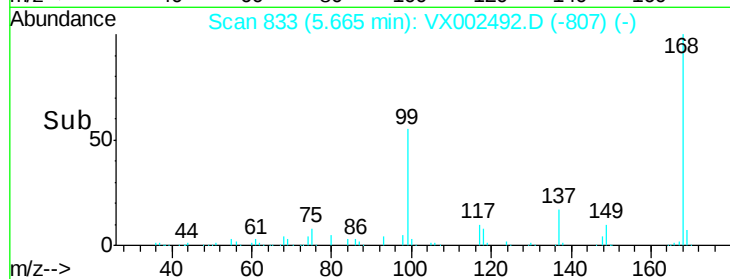
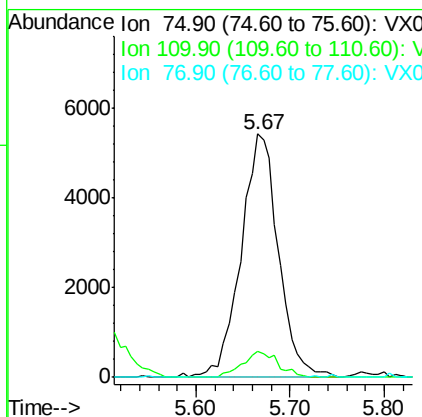
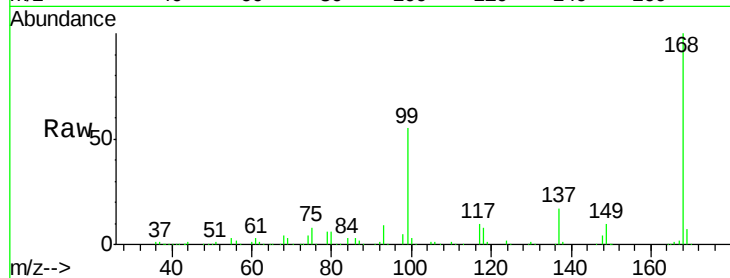




#36
 1,1-Dichloropropene
 Concen: 4.60 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.14 min
 Lab File: VX002492.D
 Acq: 13 Jun 2018 03:31

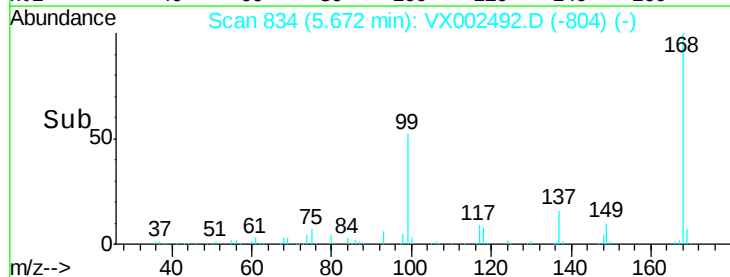
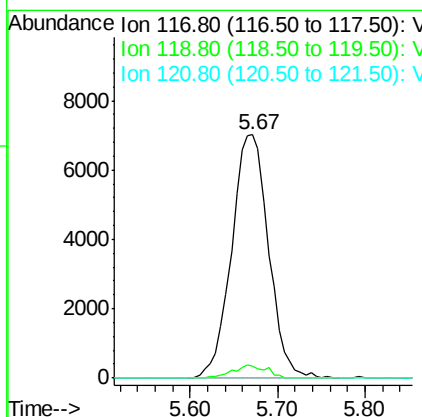
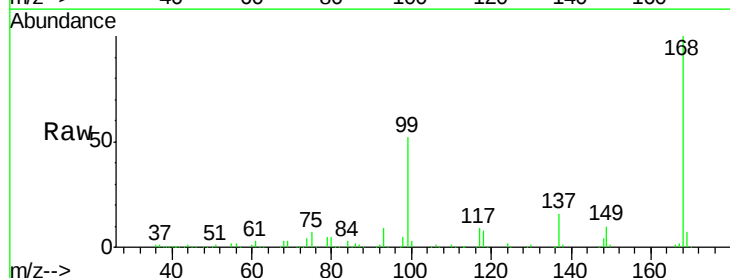
Instrument :
 MSVOA_X
 ClientSampleId :

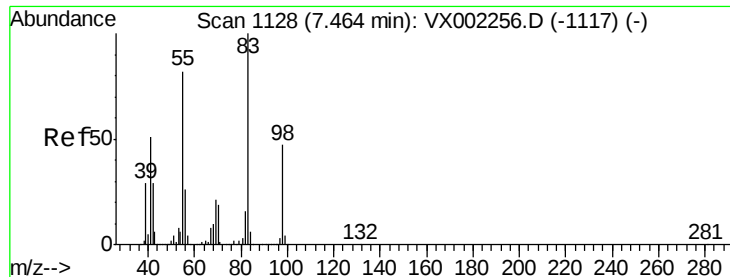
Tot Ion: 75 Resp: 15103
 Ion Ratio Lower Upper
 75 100
 110 10.3 18.1 54.4#
 77 0.0 24.3 36.5#



#38
 Carbon Tetrachloride
 Concen: 5.99 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX002492.D
 Acq: 13 Jun 2018 03:31

Tgt Ion:117 Resp: 20558
 Ion Ratio Lower Upper
 117 100
 119 5.1 77.4 116.0#
 121 0.0 24.4 36.6#

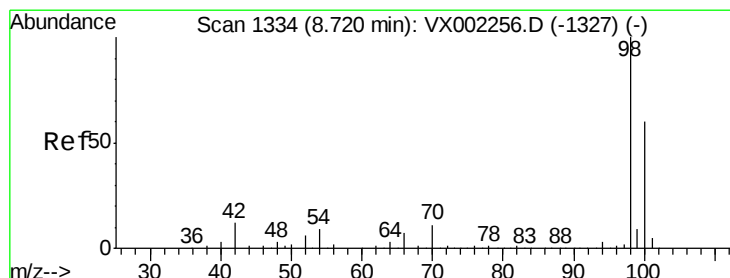
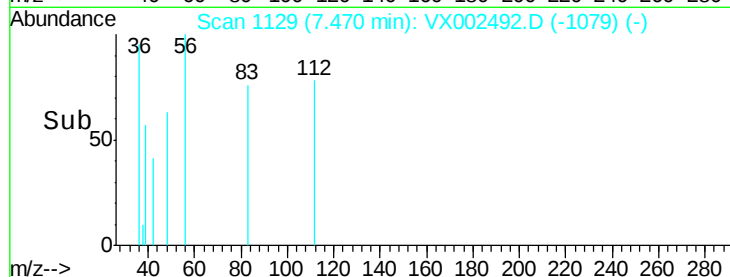
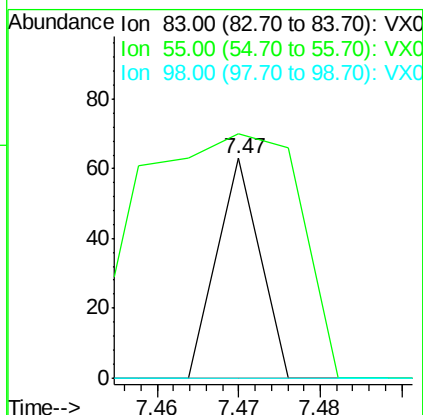
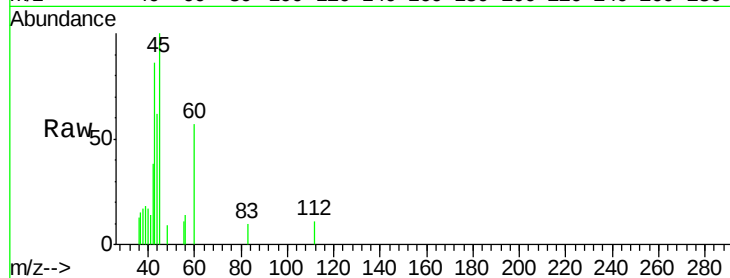




#39
Methylcyclohexane
Concen: 0.27 ug/l
RT: 7.47 min Scan# 1129
Delta R.T. 0.01 min
Lab File: VX002492.D
Acq: 13 Jun 2018 03:31

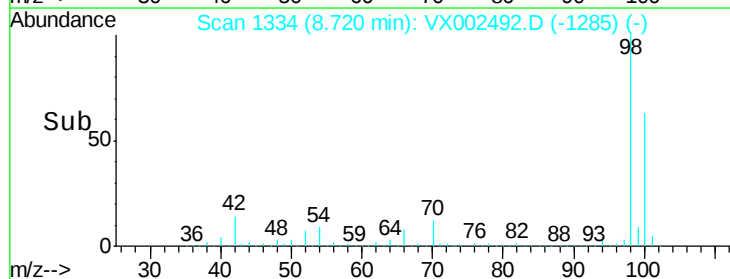
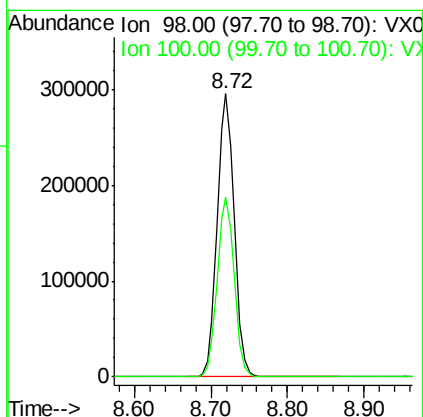
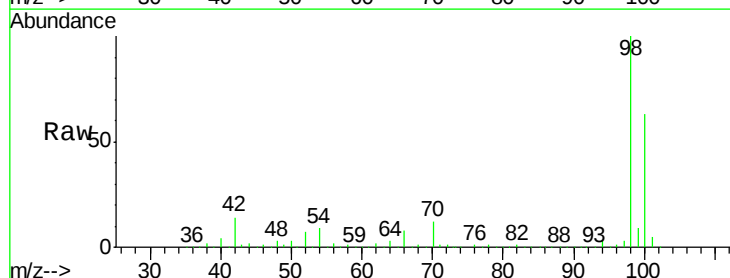
Instrument :
MSVOA_X
ClientSampleId :

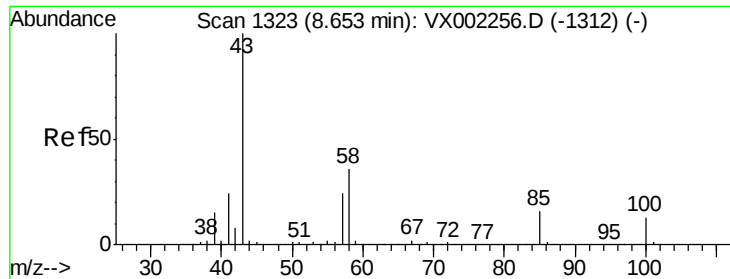
Tot Ion: 83 Resp: 23
Ion Ratio Lower Upper
83 100
55 11.1 65.4 98.0#
98 0.0 37.4 56.0#



#50
Toluene-d8
Concen: 48.35 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX002492.D
Acq: 13 Jun 2018 03:31

Tgt Ion: 98 Resp: 454967
Ion Ratio Lower Upper
98 100
100 63.0 50.9 76.3





#51

4-Methyl-2-Pentanone

Concen: 0.53 ug/l

RT: 8.65 min Scan# 1323

Delta R.T. -0.00 min

Lab File: VX002492.D

Acq: 13 Jun 2018 03:31

Instrument :

MSVOA_X

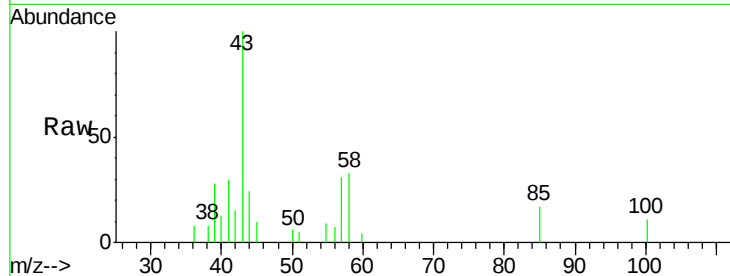
ClientSampled :

Tot Ion: 43 Resp: 2232

Ion Ratio Lower Upper

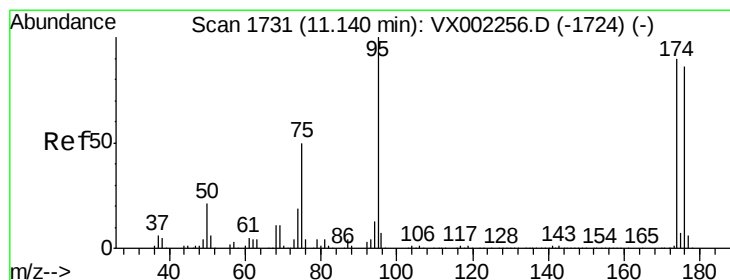
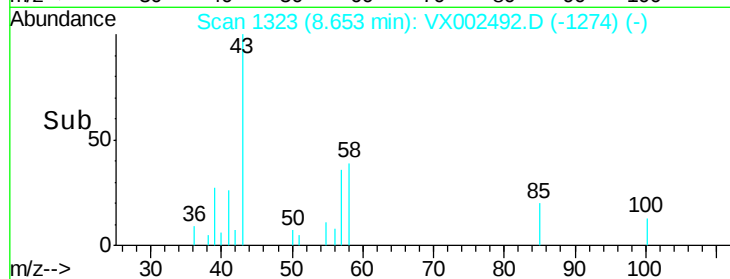
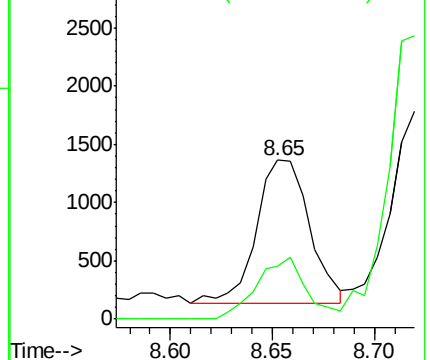
43 100

58 40.5 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: 44.15 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002492.D

Acq: 13 Jun 2018 03:31

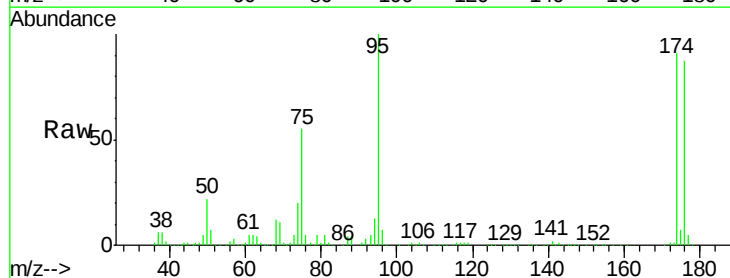
Tgt Ion: 95 Resp: 160235

Ion Ratio Lower Upper

95 100

174 94.9 0.0 187.4

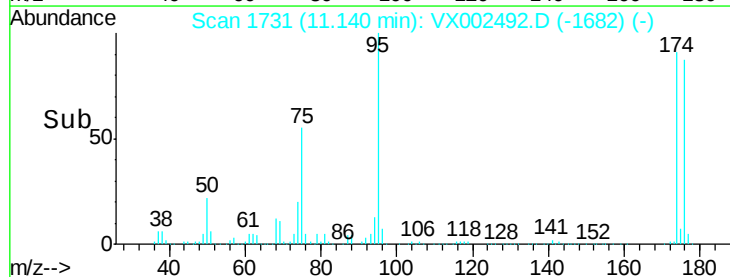
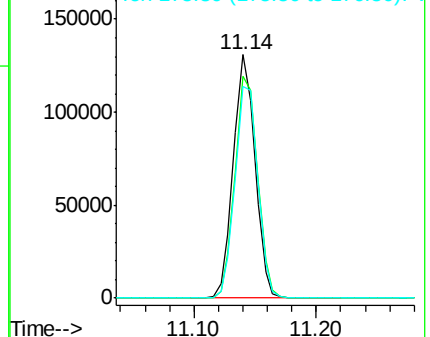
176 91.6 0.0 181.0

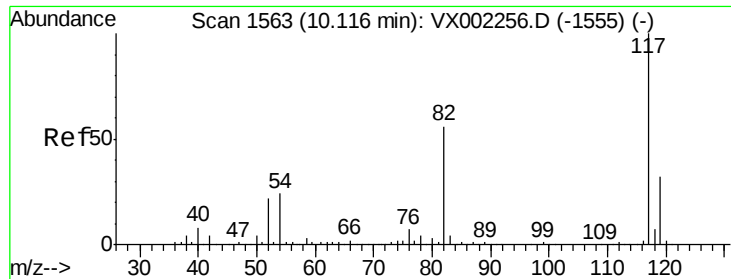


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

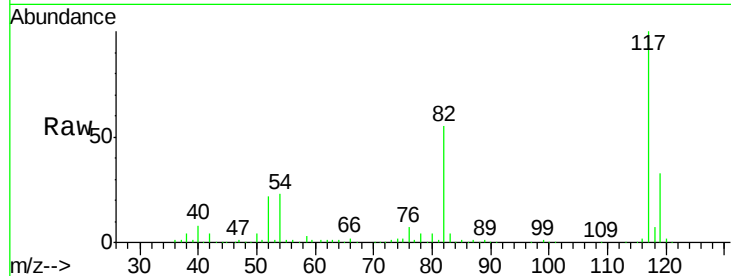




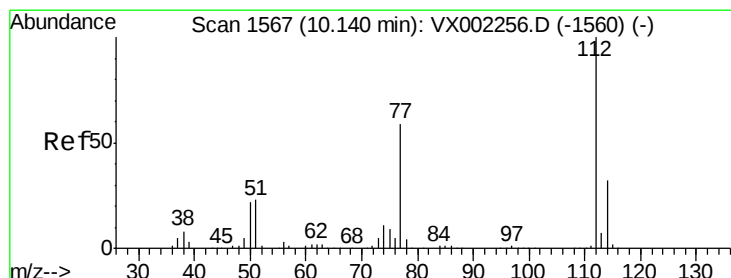
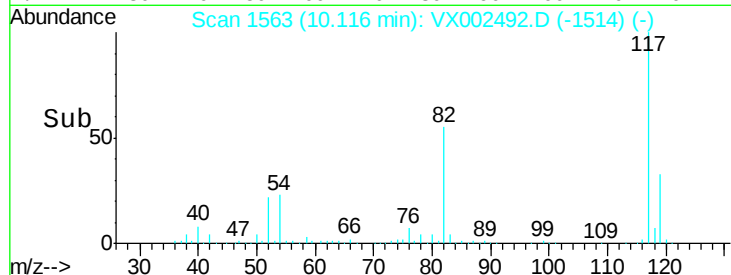
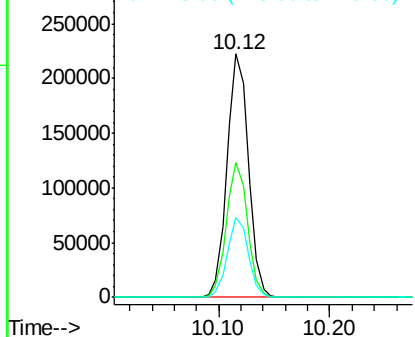
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002492.D
Acq: 13 Jun 2018 03:31

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 296189
Ion Ratio Lower Upper
117 100
82 55.3 45.0 67.4
119 32.5 25.8 38.6

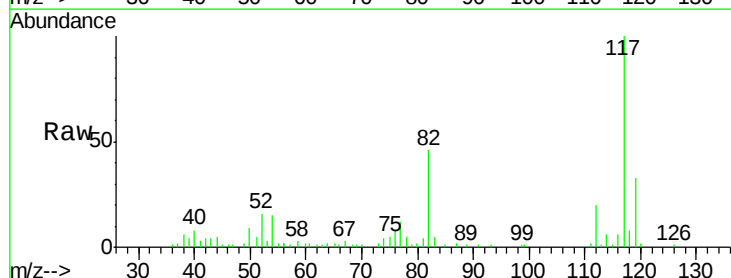


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

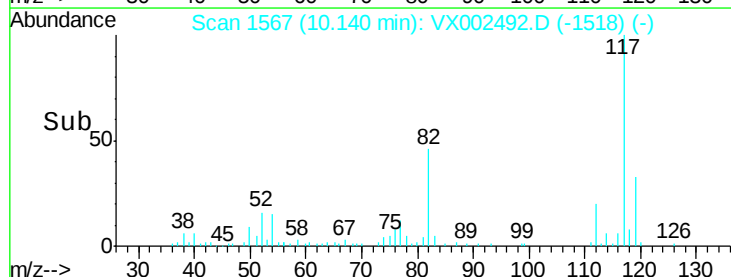
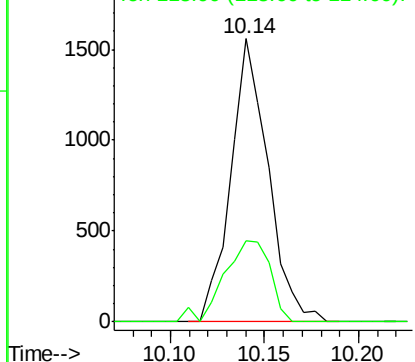


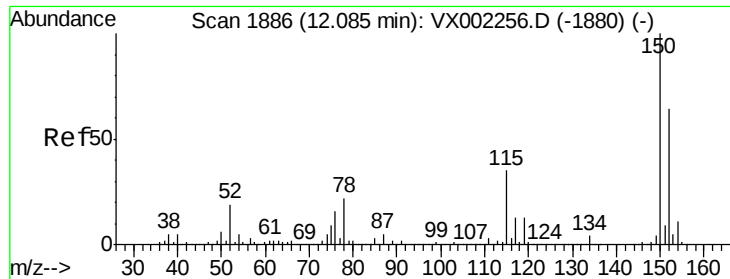
#65
Chlorobenzene
Concen: 0.29 ug/l
RT: 10.14 min Scan# 1567
Delta R.T. -0.00 min
Lab File: VX002492.D
Acq: 13 Jun 2018 03:31

Tgt Ion:112 Resp: 2139
Ion Ratio Lower Upper
112 100
114 28.8 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: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002492.D

Acq: 13 Jun 2018 03:31

Instrument :

MSVOA_X

ClientSampleId :

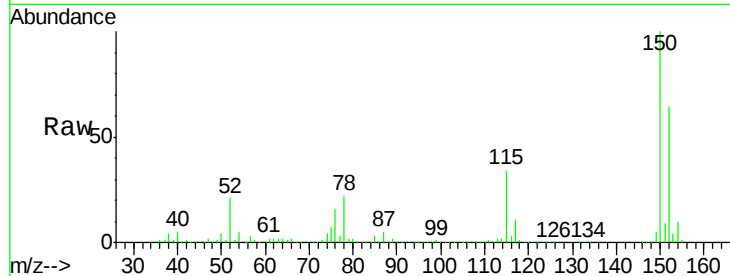
Tot Ion:152 Resp: 168647

Ion Ratio Lower Upper

152 100

115 54.5 40.1 120.2

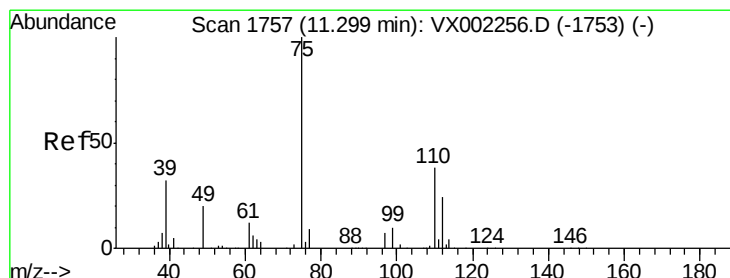
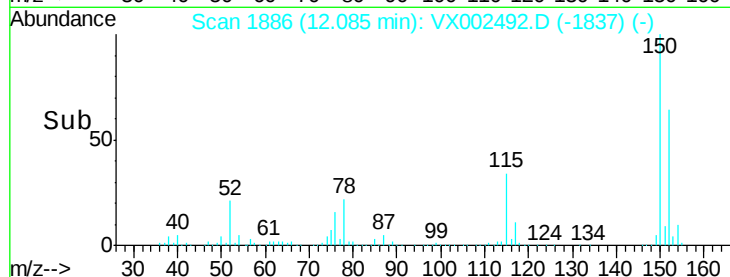
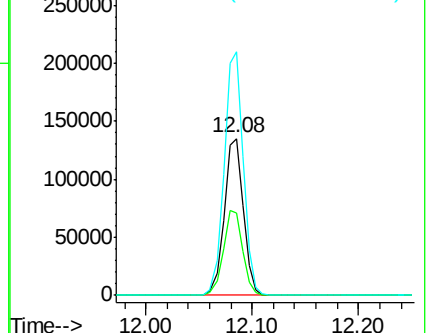
150 156.0 0.0 347.2



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: 23.71 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002492.D

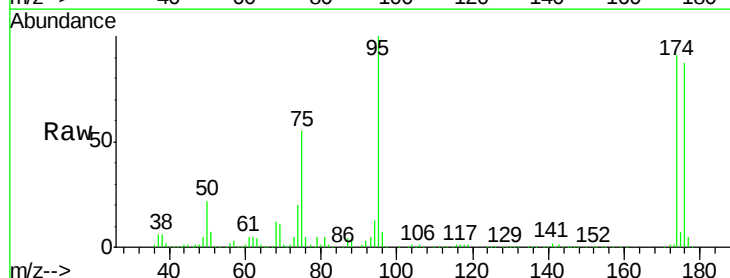
Acq: 13 Jun 2018 03:31

Tgt Ion: 75 Resp: 87728

Ion Ratio Lower Upper

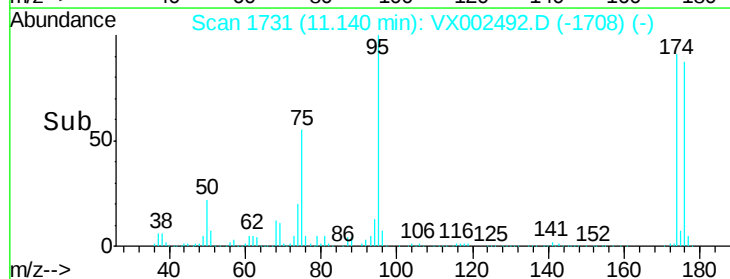
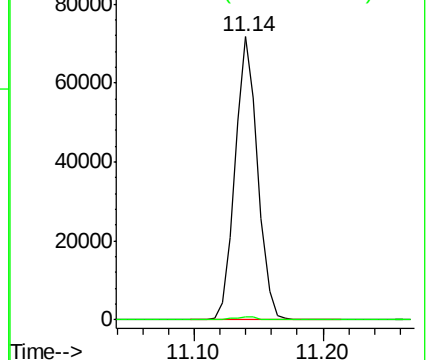
75 100

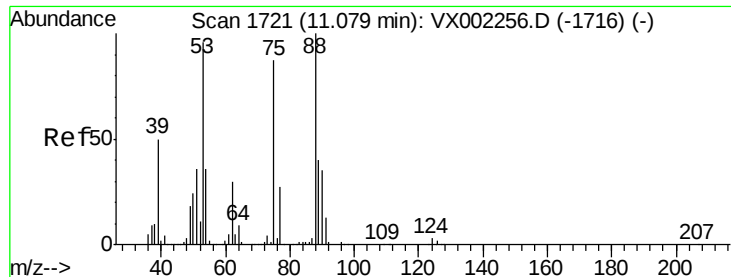
77 1.1 22.8 68.3#



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: 83.10 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002492.D
 Acq: 13 Jun 2018 03:31

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 87728
 Ion Ratio Lower Upper
 75 100
 53 0.2 86.8 130.2#
 89 0.0 38.2 57.2#

