

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061218\
 Data File : VX002490.D
 Acq On : 13 Jun 2018 02:38
 Operator : JC/MD
 Sample : J3444-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 13 03:31:34 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	214249	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	318035	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	302721	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	175780	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	157359	51.46	ug/l	0.00
Spiked Amount			Recovery	=	102.92%	
35) Dibromofluoromethane	5.51	113	115579	46.21	ug/l	0.00
Spiked Amount			Recovery	=	92.42%	
50) Toluene-d8	8.72	98	465950	48.61	ug/l	0.00
Spiked Amount			Recovery	=	97.22%	
62) 4-Bromofluorobenzene	11.14	95	163914	44.34	ug/l	0.00
Spiked Amount			Recovery	=	88.68%	

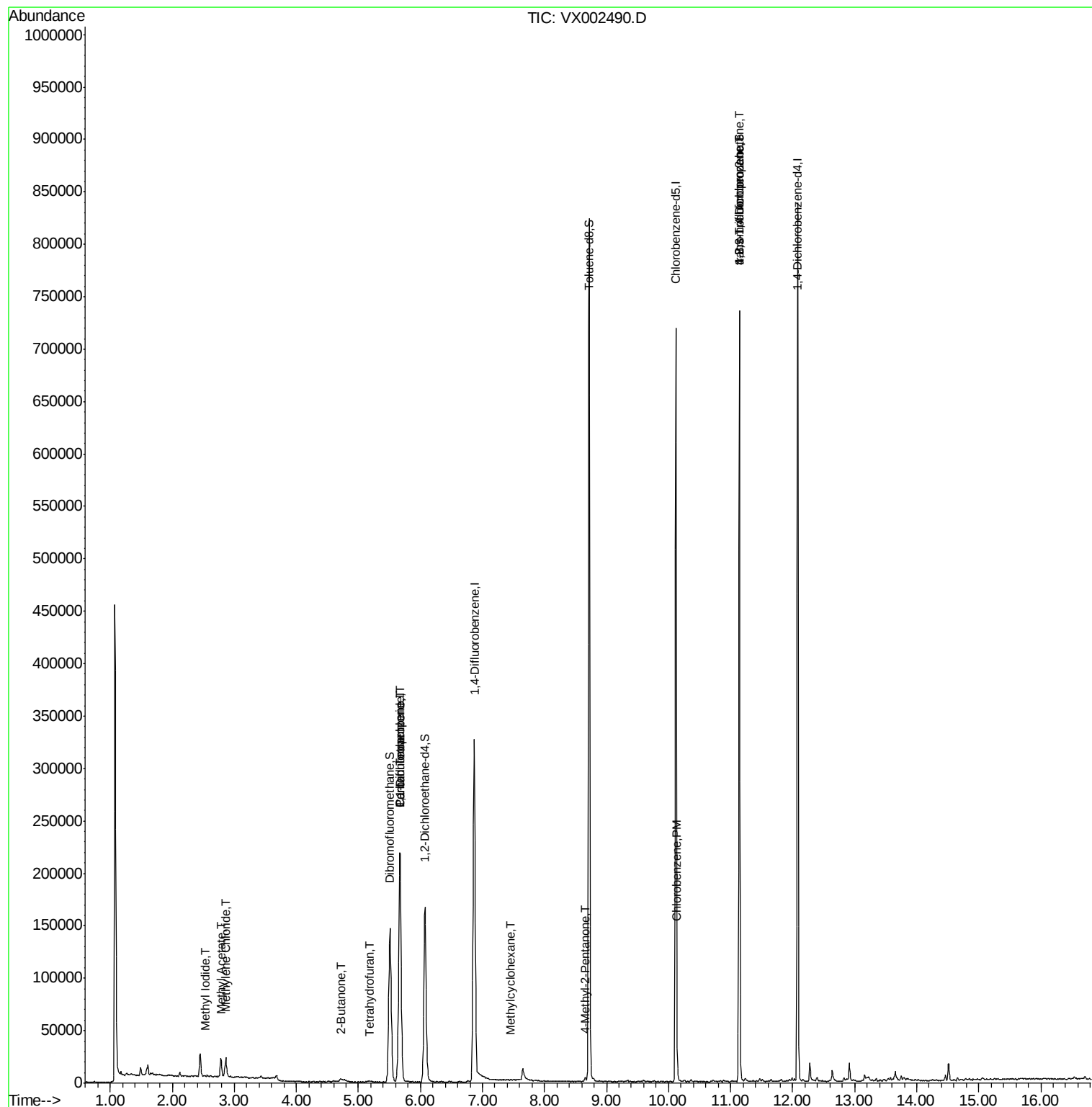
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	587	Below Cal		90
5) Bromomethane	1.65	94	919	Below Cal	#	57
8) Diethyl Ether	2.20	74	91	Below Cal		66
10) Methyl Iodide	2.53	142	1228	0.38	ug/l	# 90
11) Tert butyl alcohol	3.07	59	635	Below Cal	#	7
13) Acrolein	2.31	56	123	Below Cal	#	47
15) Acrylonitrile	3.15	53	170	Below Cal	#	3
18) Methyl Acetate	2.78	43	21252	4.47	ug/l	95
19) Methyl tert-butyl Ether	3.21	73	86	Below Cal	#	54
20) Methylene Chloride	2.86	84	8758	0.90	ug/l	97
22) Diisopropyl ether	3.85	45	70	Below Cal	#	27
25) 2-Butanone	4.71	43	4957	2.36	ug/l	# 82
28) Bromochloromethane	5.03	49	19	Below Cal	#	13
29) Tetrahydrofuran	5.18	42	1461	1.08	ug/l	# 79
36) 1,1-Dichloropropene	5.67	75	15754	4.71	ug/l	# 51
38) Carbon Tetrachloride	5.67	117	20137	5.76	ug/l	# 16
39) Methylcyclohexane	7.46	83	35	0.27	ug/l	# 19
51) 4-Methyl-2-Pentanone	8.65	43	2261	0.53	ug/l	96
65) Chlorobenzene	10.14	112	1990	0.26	ug/l	# 81
76) 1,2,3-Trichloropropane	11.14	75	91178	23.64	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	91178	82.86	ug/l	# 6

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

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





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002490.D

Acq: 13 Jun 2018 02:38

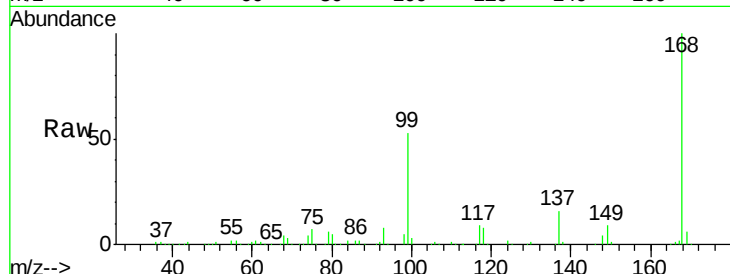
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 214249

Ion Ratio Lower Upper

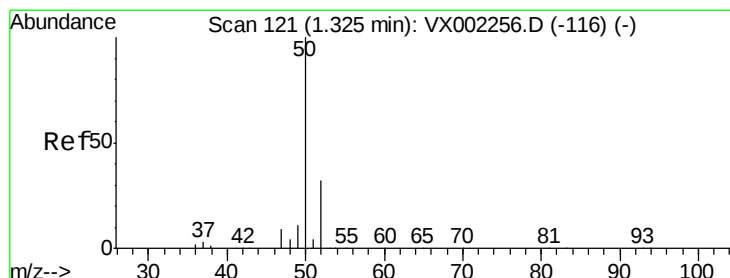
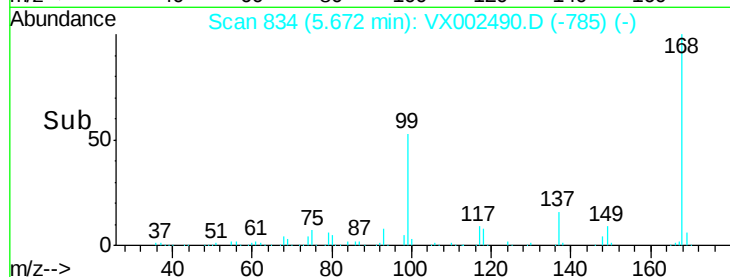
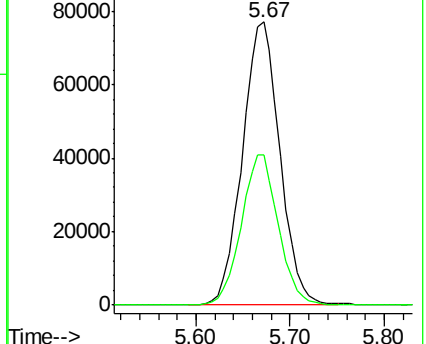
168 100

99 52.9 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: VX002490.D

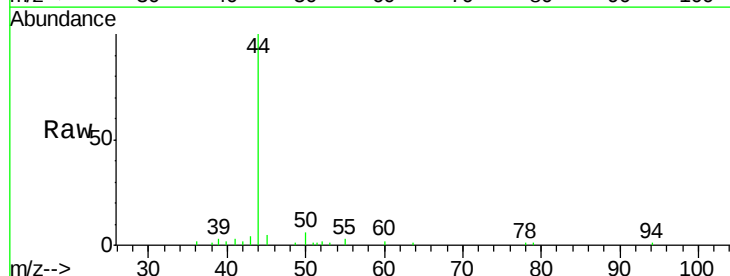
Acq: 13 Jun 2018 02:38

Tgt Ion: 50 Resp: 587

Ion Ratio Lower Upper

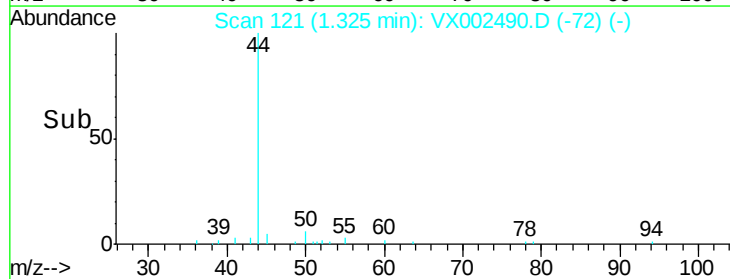
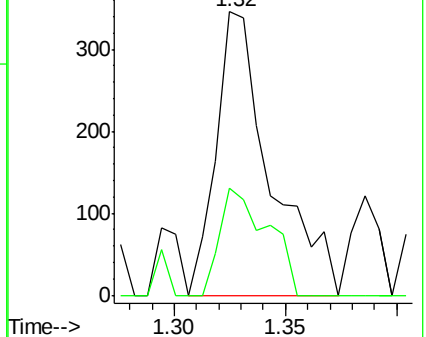
50 100

52 37.6 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: VX002490.D

Acq: 13 Jun 2018 02:38

Instrument :

MSVOA_X

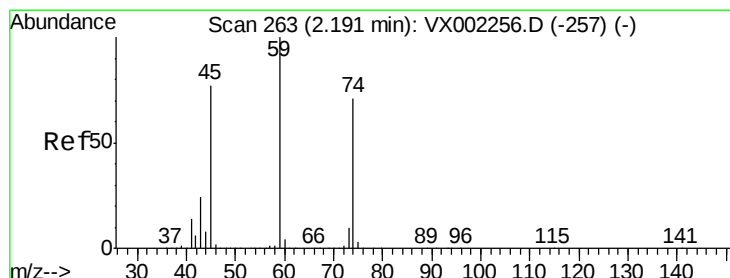
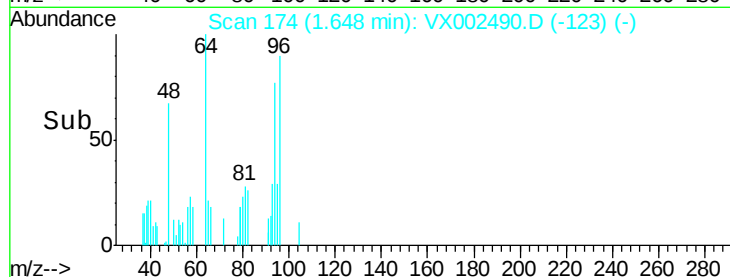
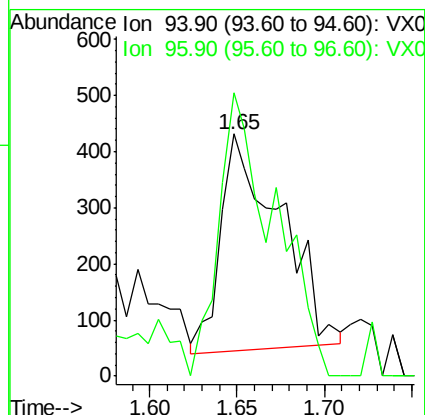
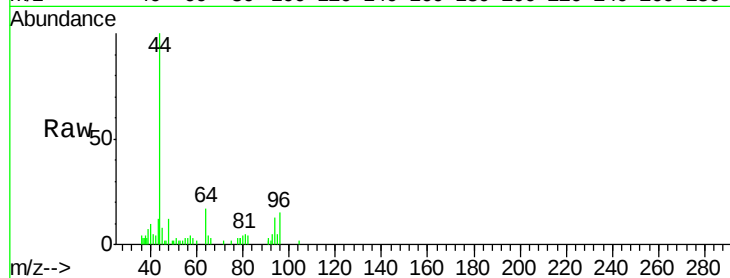
ClientSampled :

Tot Ion: 94 Resp: 919

Ion Ratio Lower Upper

94 100

96 135.1 74.9 112.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.20 min Scan# 264

Delta R.T. 0.01 min

Lab File: VX002490.D

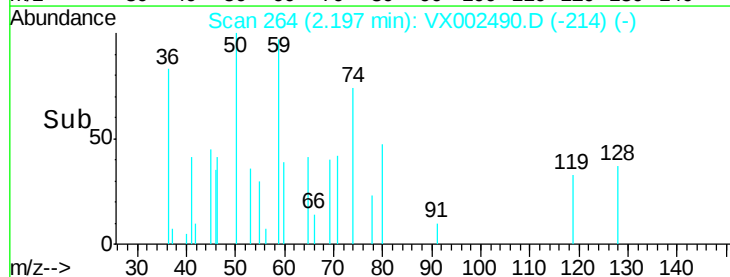
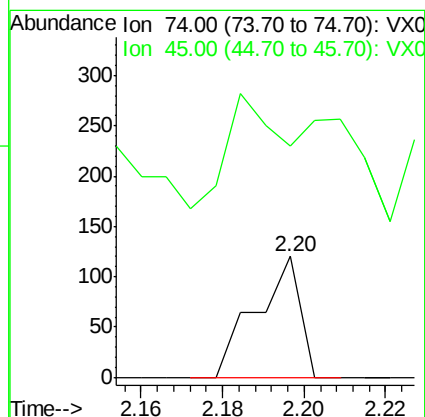
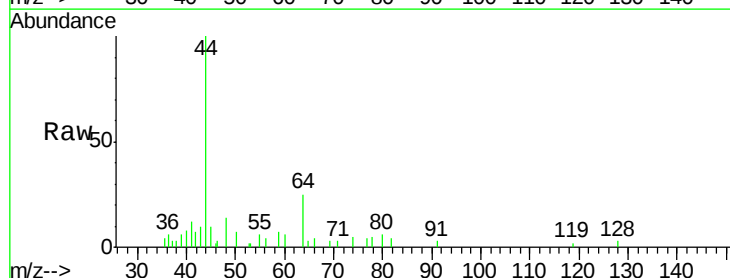
Acq: 13 Jun 2018 02:38

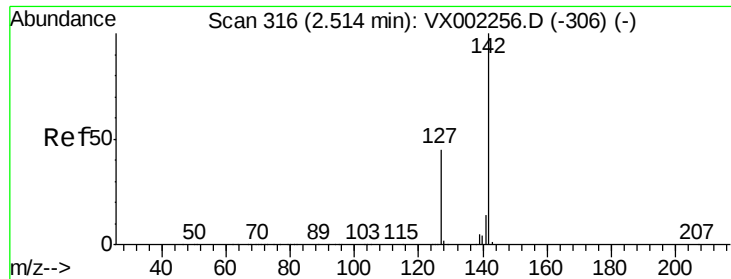
Tgt Ion: 74 Resp: 91

Ion Ratio Lower Upper

74 100

45 141.8 53.1 159.4

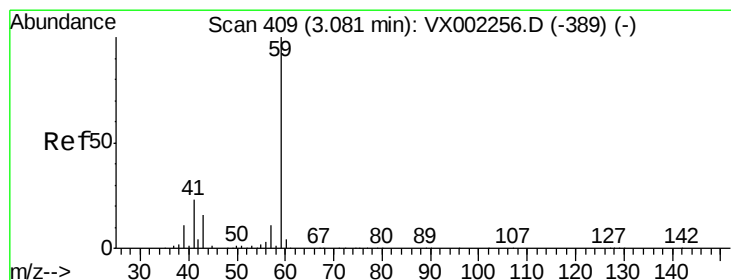
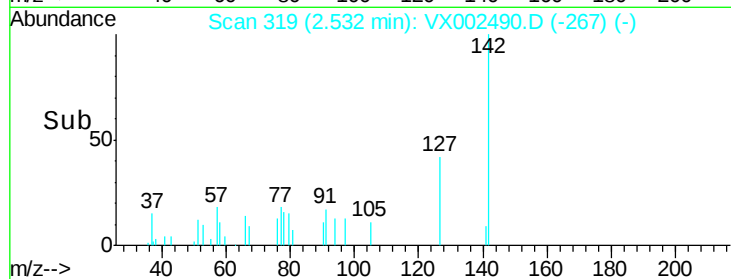
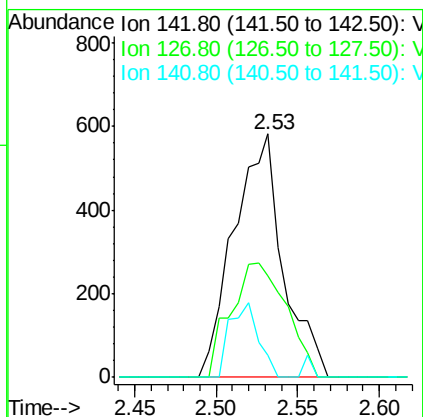
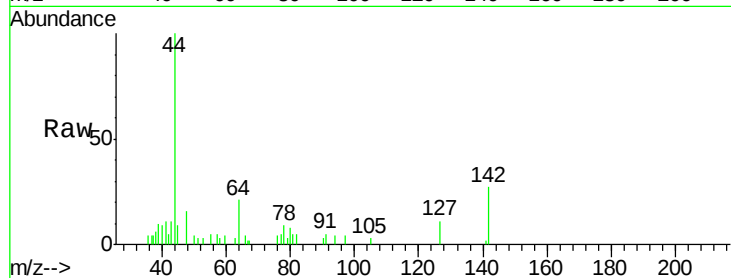




#10
Methyl Iodide
Concen: 0.38 ug/l
RT: 2.53 min Scan# 319
Delta R.T. 0.02 min
Lab File: VX002490.D
Acq: 13 Jun 2018 02:38

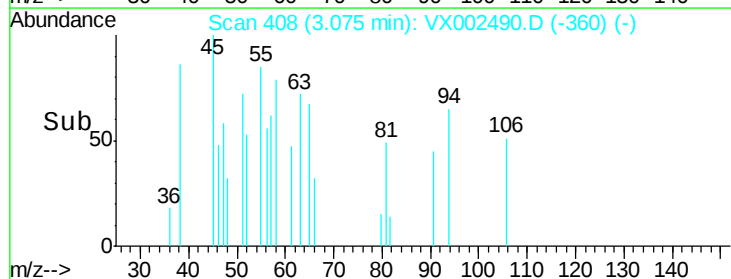
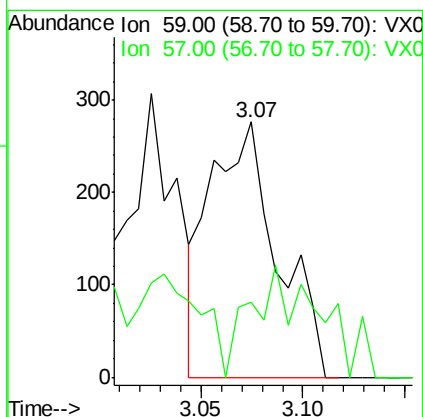
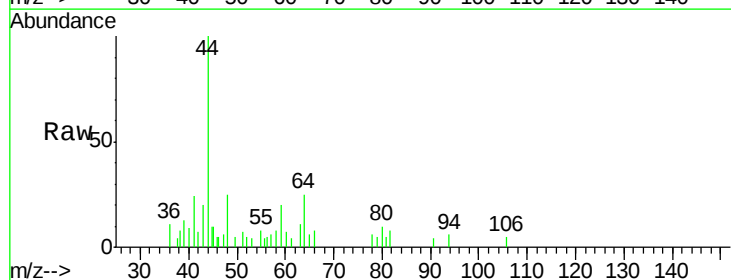
Instrument :
MSVOA_X
ClientSampleId :

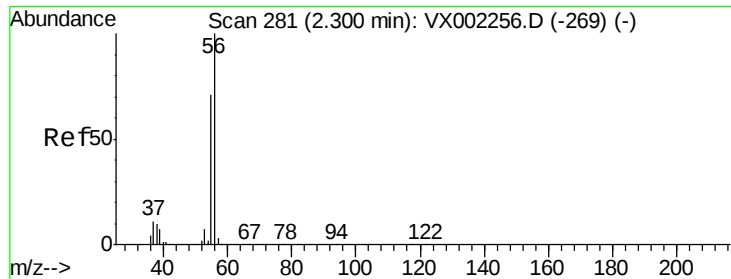
Tot Ion:142 Resp: 1228
Ion Ratio Lower Upper
142 100
127 52.9 36.6 55.0
141 17.8 11.3 16.9#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX002490.D
Acq: 13 Jun 2018 02:38

Tgt Ion: 59 Resp: 635
Ion Ratio Lower Upper
59 100
57 44.9 8.2 12.2#





#13

Acrolein

Concen: Below Cal

RT: 2.31 min Scan# 282

Delta R.T. 0.01 min

Lab File: VX002490.D

Acq: 13 Jun 2018 02:38

Instrument :

MSVOA_X

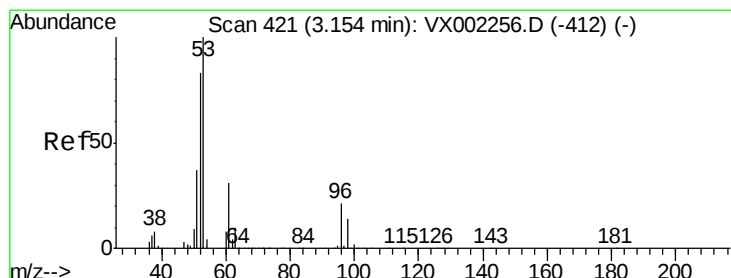
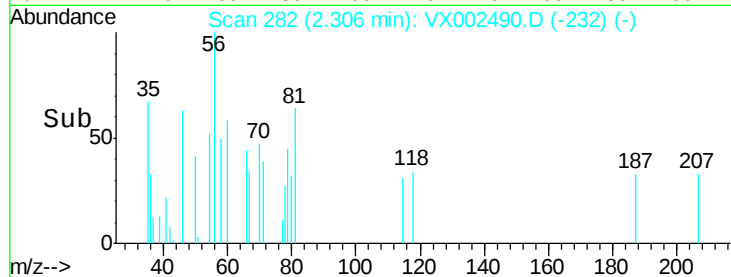
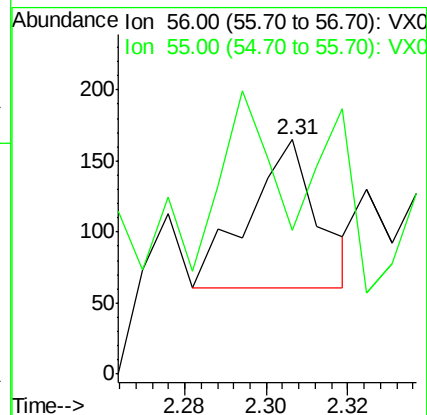
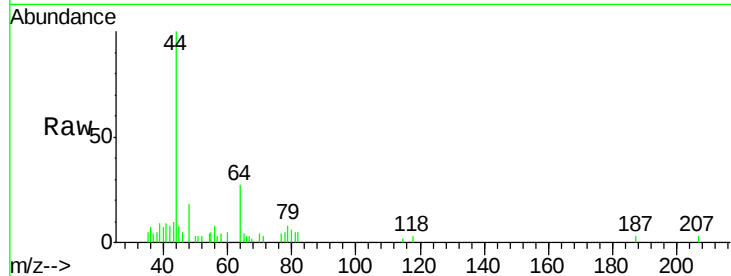
ClientSampled :

Tot Ion: 56 Resp: 123

Ion Ratio Lower Upper

56 100

55 115.4 57.0 85.4#



#15

Acrylonitrile

Concen: Below Cal

RT: 3.15 min Scan# 420

Delta R.T. -0.01 min

Lab File: VX002490.D

Acq: 13 Jun 2018 02:38

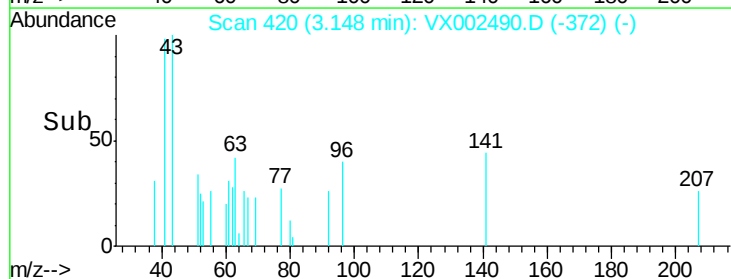
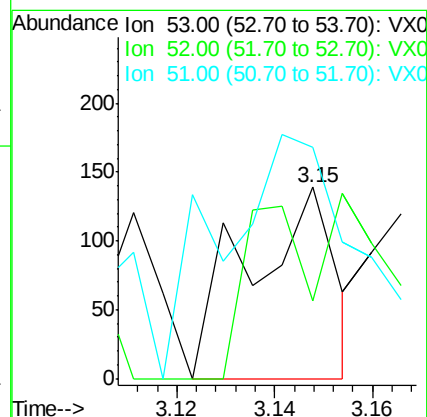
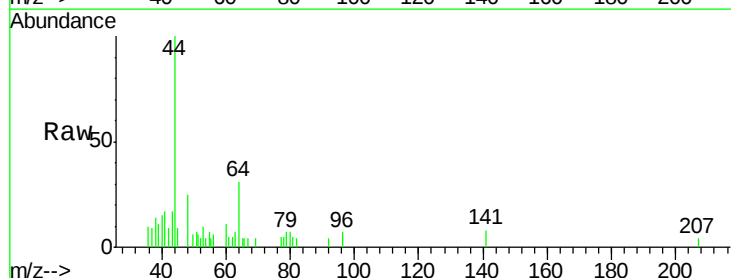
Tgt Ion: 53 Resp: 170

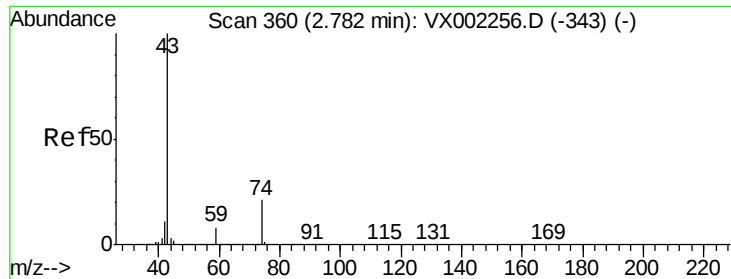
Ion Ratio Lower Upper

53 100

52 65.3 66.7 100.1#

51 197.6 29.9 44.9#

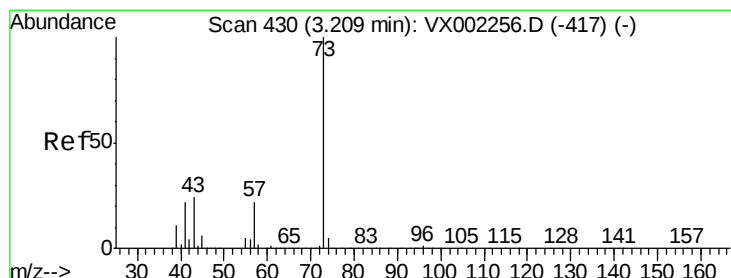
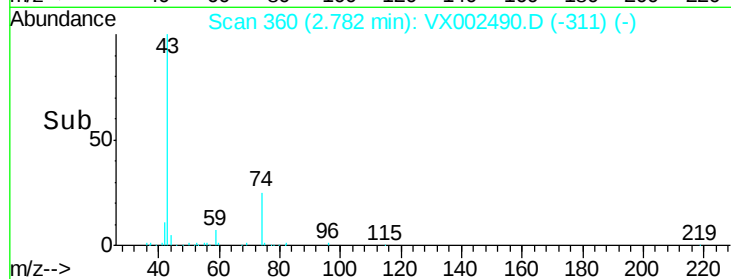
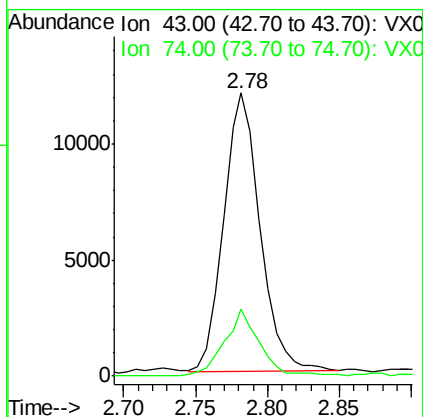
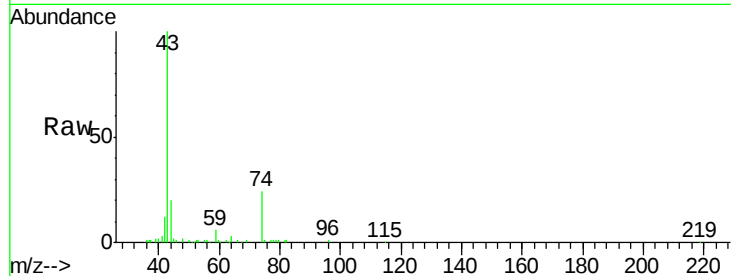




#18
Methyl Acetate
Concen: 4.47 ug/l
RT: 2.78 min Scan# 360
Delta R.T. -0.00 min
Lab File: VX002490.D
Acq: 13 Jun 2018 02:38

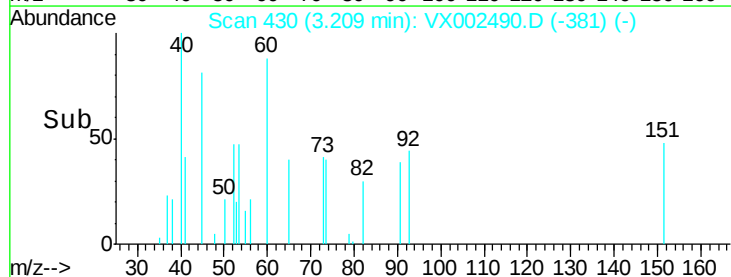
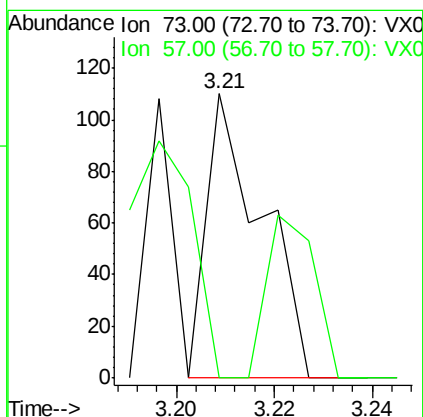
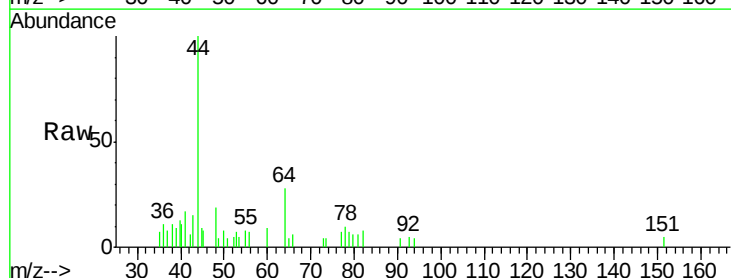
Instrument :
MSVOA_X
ClientSampled :

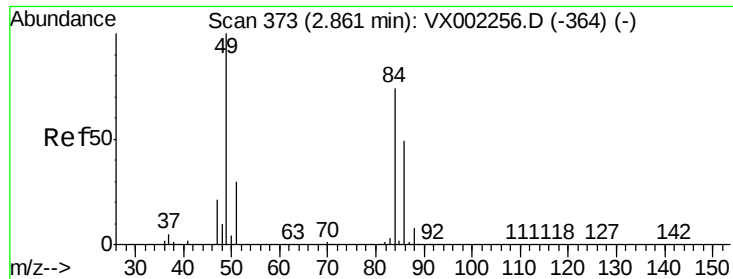
Tot Ion: 43 Resp: 21252
Ion Ratio Lower Upper
43 100
74 23.1 16.7 25.1



#19
Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.21 min Scan# 430
Delta R.T. 0.00 min
Lab File: VX002490.D
Acq: 13 Jun 2018 02:38

Tgt Ion: 73 Resp: 86
Ion Ratio Lower Upper
73 100
57 0.0 17.7 26.5#

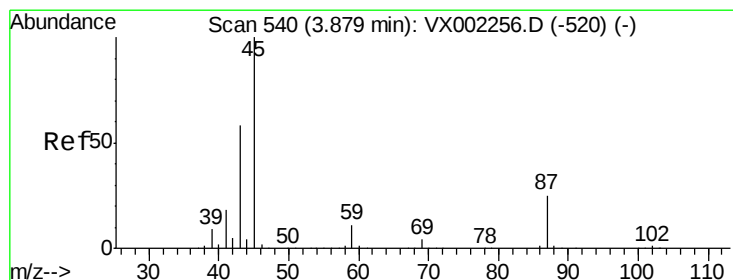
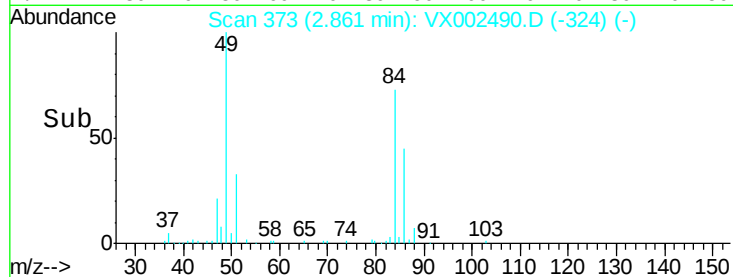
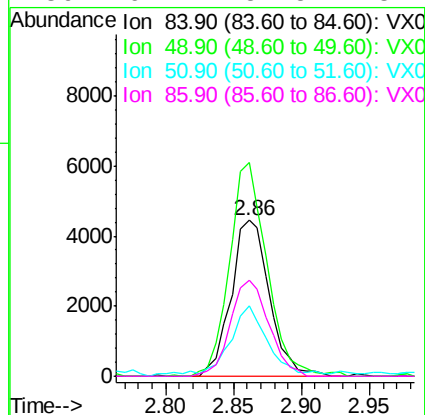
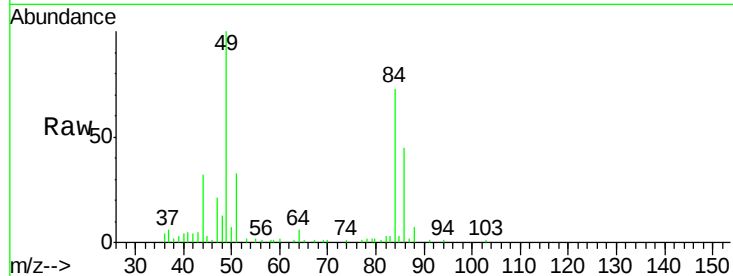




#20
Methvlene Chloride
Concen: 0.90 ua/l
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002490.D
Acq: 13 Jun 2018 02:38

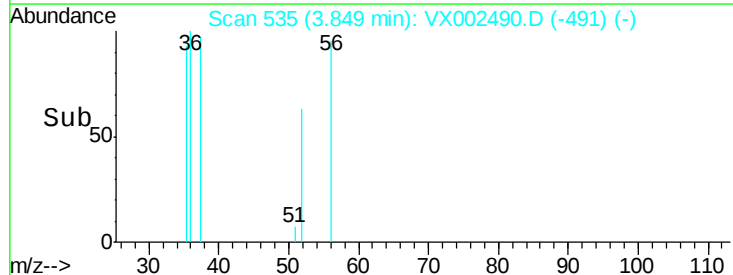
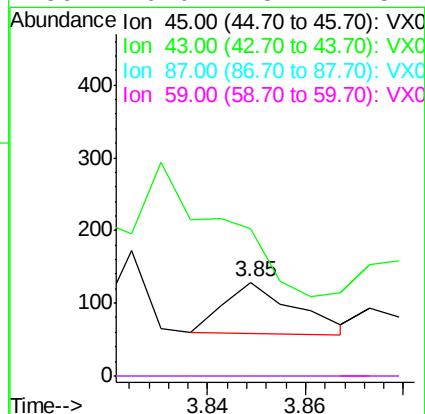
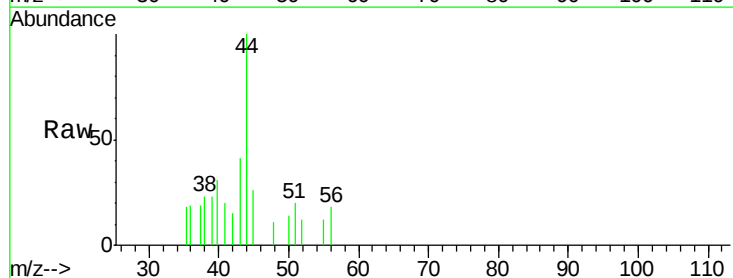
Instrument :
MSVOA_X
ClientSampleId :

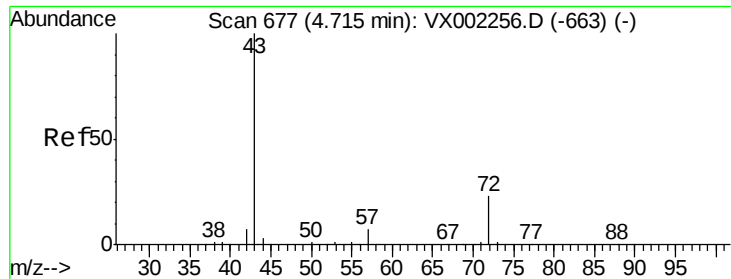
Tot Ion: 84 Resp: 8758
Ion Ratio Lower Upper
84 100
49 137.2 107.8 161.6
51 42.4 32.8 49.2
86 61.4 52.5 78.7



#22
Diisopropyl ether
Concen: Below Cal
RT: 3.85 min Scan# 535
Delta R.T. -0.03 min
Lab File: VX002490.D
Acq: 13 Jun 2018 02:38

Tgt Ion: 45 Resp: 70
Ion Ratio Lower Upper
45 100
43 126.1 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: VX002490.D

Acq: 13 Jun 2018 02:38

Instrument :

MSVOA_X

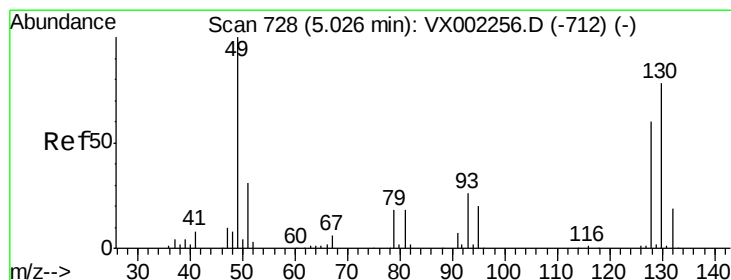
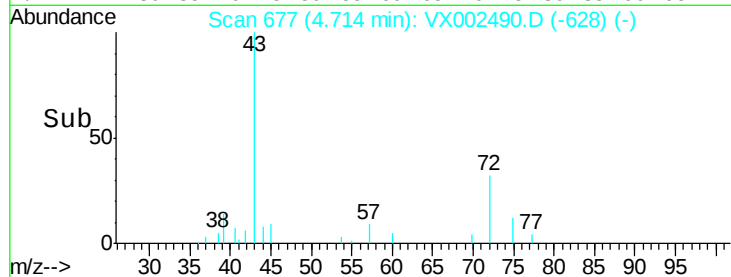
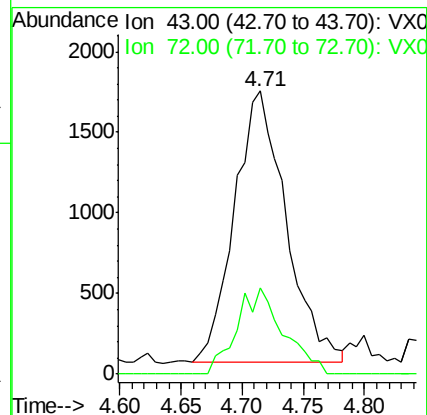
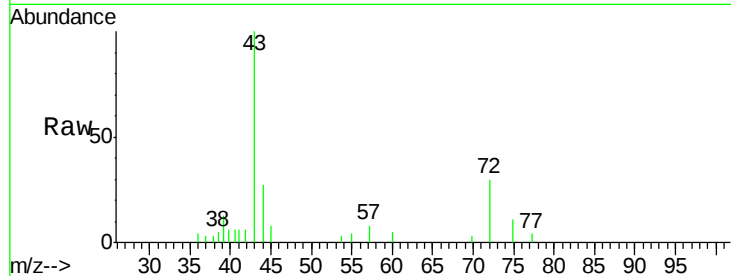
ClientSampleId :

Tot Ion: 43 Resp: 4957

Ion Ratio Lower Upper

43 100

72 31.7 18.5 27.7#



#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 729

Delta R.T. 0.01 min

Lab File: VX002490.D

Acq: 13 Jun 2018 02:38

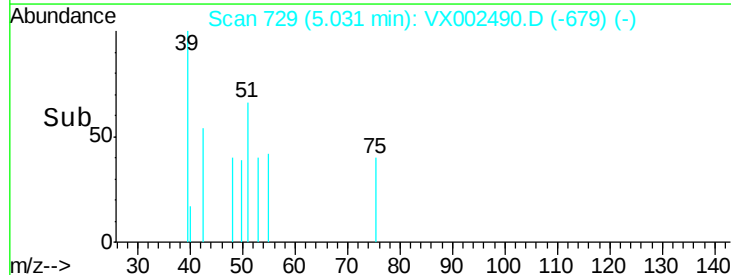
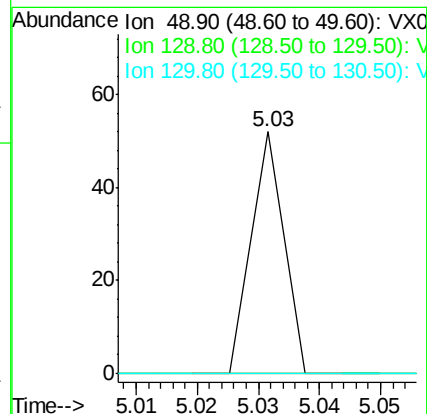
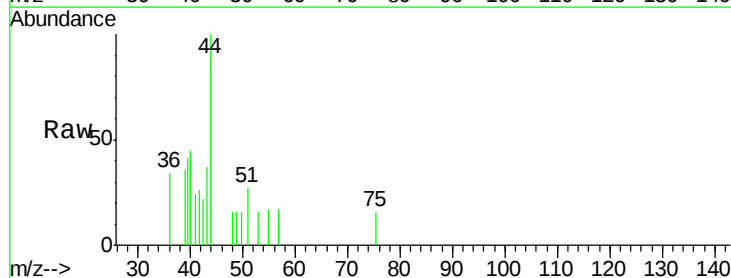
Tgt Ion: 49 Resp: 19

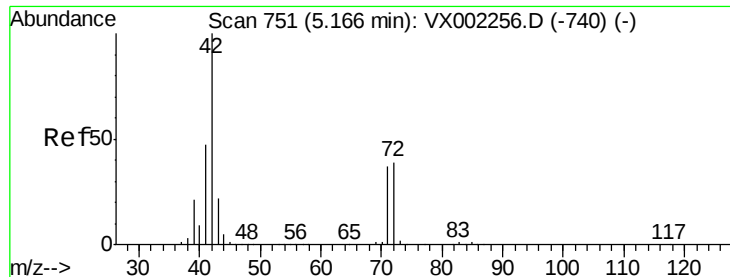
Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

130 0.0 61.2 91.8#





#29

Tetrahydrofuran

Concen: 1.08 ug/l

RT: 5.18 min Scan# 754

Delta R.T. 0.02 min

Lab File: VX002490.D

Acq: 13 Jun 2018 02:38

Instrument :

MSVOA_X

ClientSampleId :

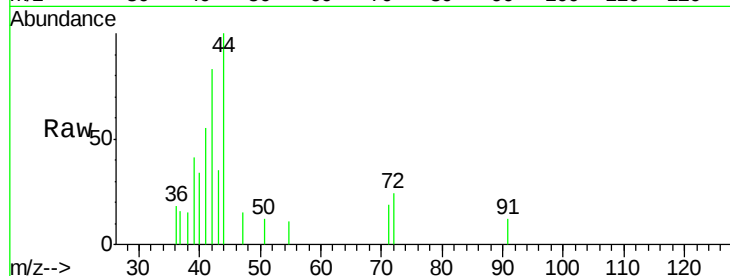
Tot Ion: 42 Resp: 1461

Ion Ratio Lower Upper

42 100

72 20.1 32.0 48.0#

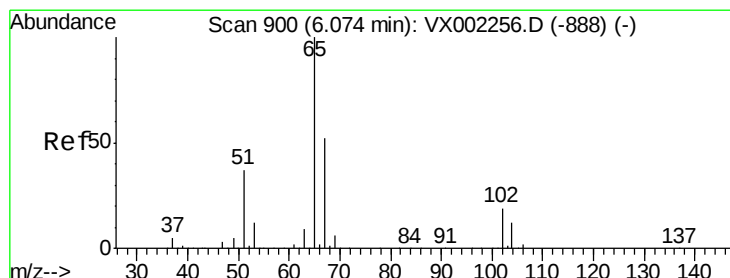
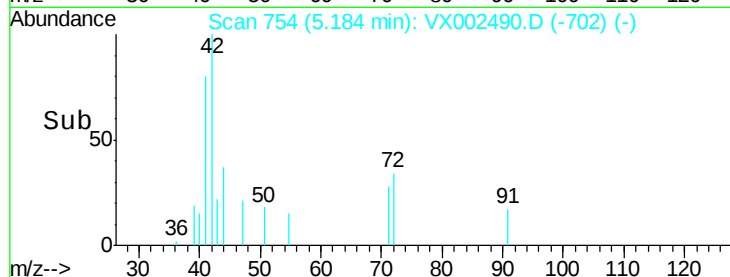
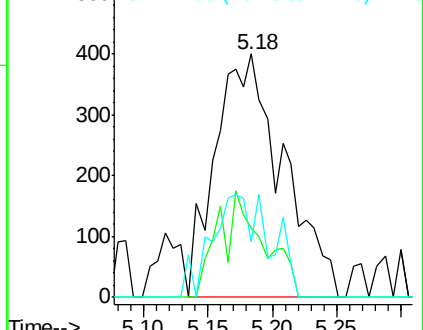
71 31.7 30.1 45.1



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 51.46 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.00 min

Lab File: VX002490.D

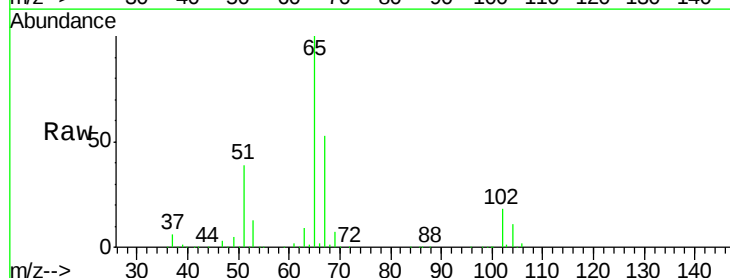
Acq: 13 Jun 2018 02:38

Tgt Ion: 65 Resp: 157359

Ion Ratio Lower Upper

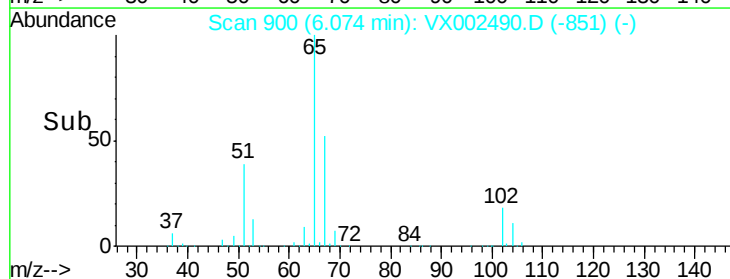
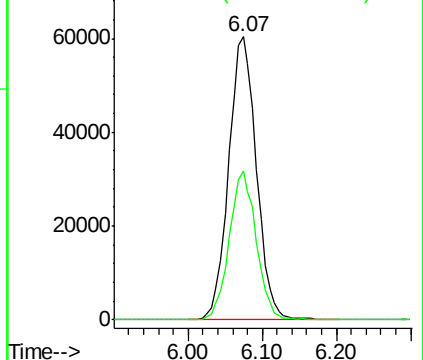
65 100

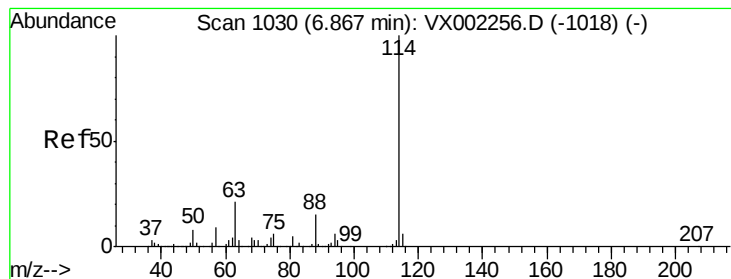
67 51.1 0.0 102.6



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: VX002490.D

Acq: 13 Jun 2018 02:38

Instrument :

MSVOA_X

ClientSampleId :

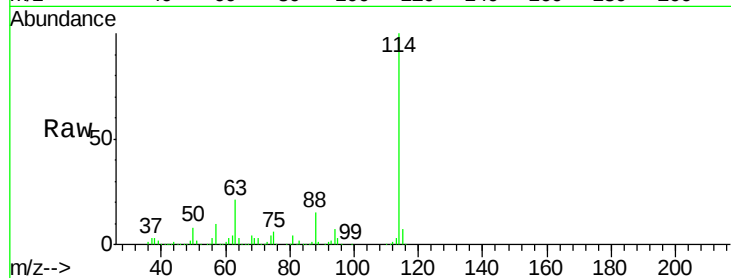
Tot Ion:114 Resp: 318035

Ion Ratio Lower Upper

114 100

63 20.7 0.0 41.4

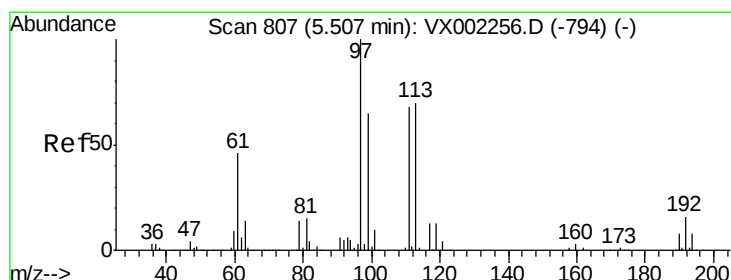
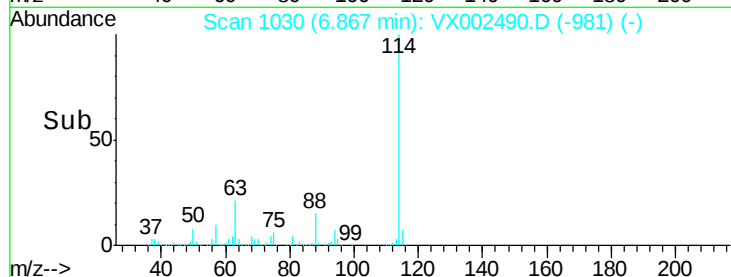
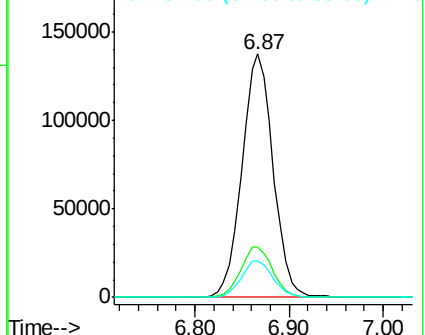
88 14.8 0.0 30.0



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: 46.21 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002490.D

Acq: 13 Jun 2018 02:38

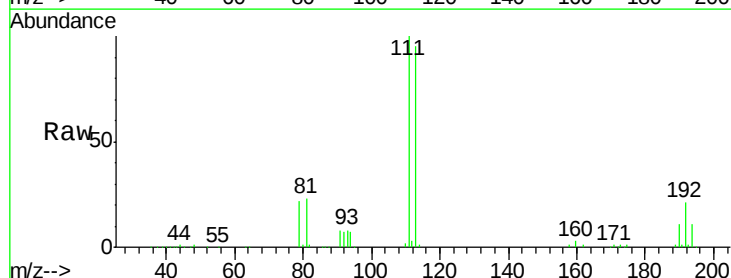
Tgt Ion:113 Resp: 115579

Ion Ratio Lower Upper

113 100

111 103.9 81.4 122.0

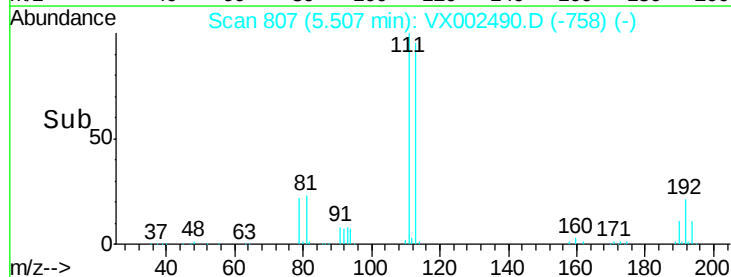
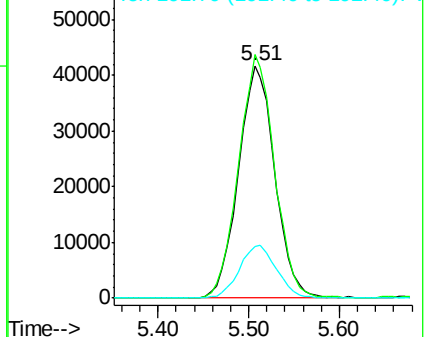
192 23.2 19.1 28.7

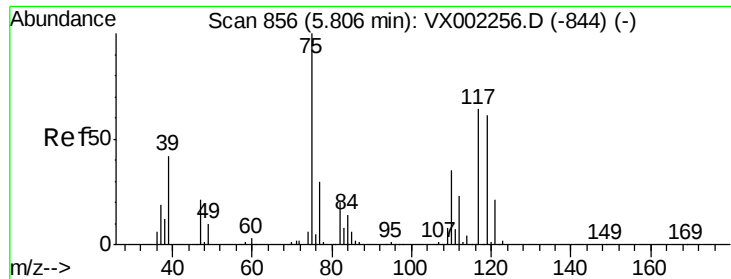


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

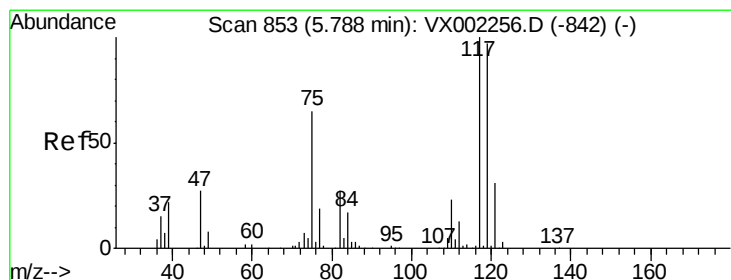
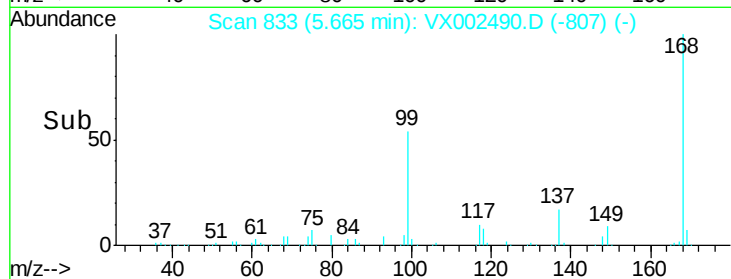
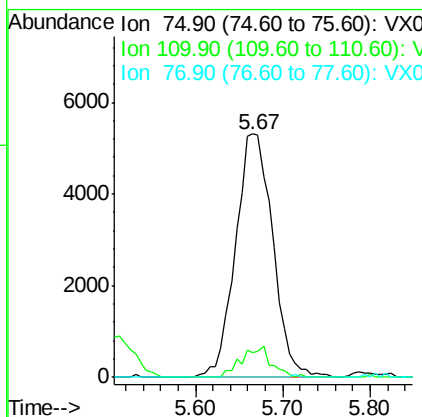
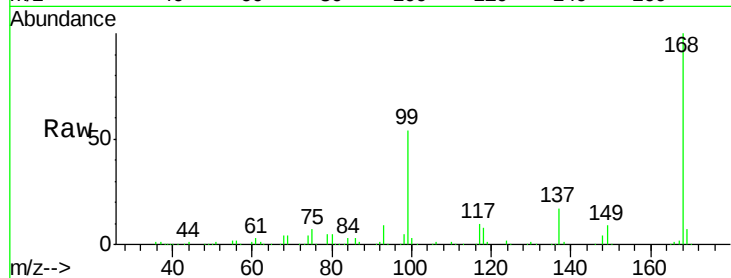




#36
 1,1-Dichloropropene
 Concen: 4.71 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.14 min
 Lab File: VX002490.D
 Acq: 13 Jun 2018 02:38

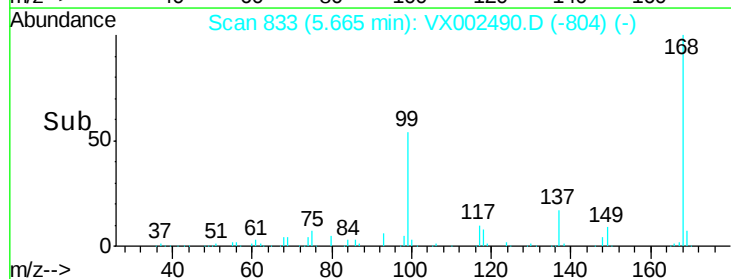
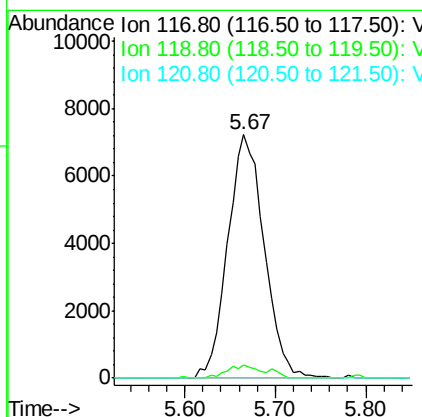
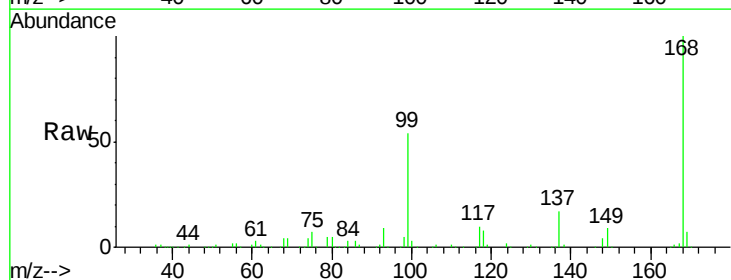
Instrument :
 MSVOA_X
 ClientSampleId :

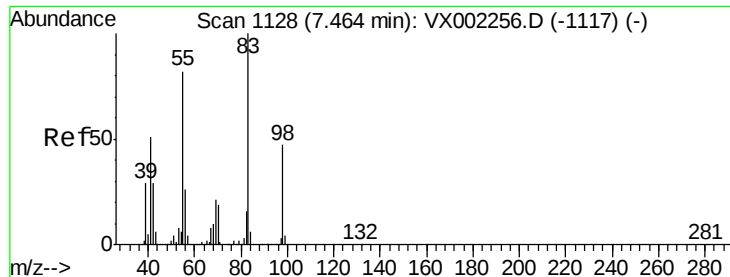
Tot Ion	75	Resp	15754
Ion Ratio	Lower	Upper	
75	100		
110	10.2	18.1	54.4#
77	0.0	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 5.76 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX002490.D
 Acq: 13 Jun 2018 02:38

Tgt Ion	117	Resp	20137
Ion Ratio	Lower	Upper	
117	100		
119	5.6	77.4	116.0#
121	0.0	24.4	36.6#

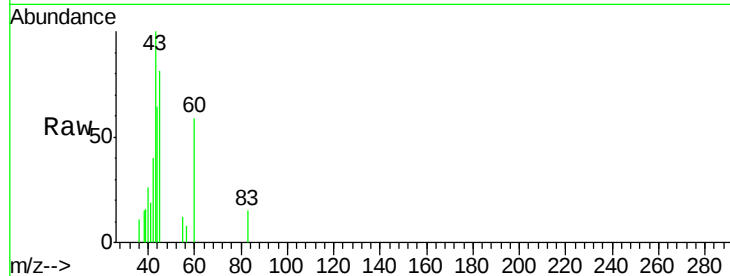




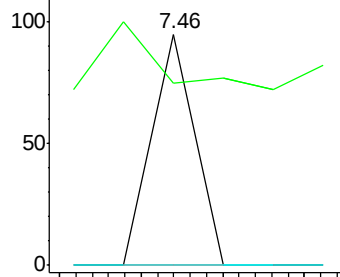
#39
Methvlcvclohexane
Concen: 0.27 ug/l
RT: 7.46 min Scan# 1128
Delta R.T. -0.00 min
Lab File: VX002490.D
Acq: 13 Jun 2018 02:38

Instrument :
MSVOA_X
ClientSampled :

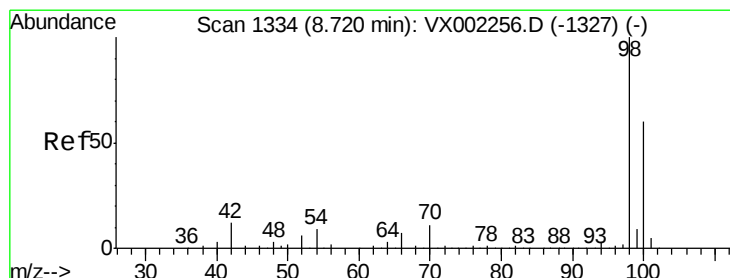
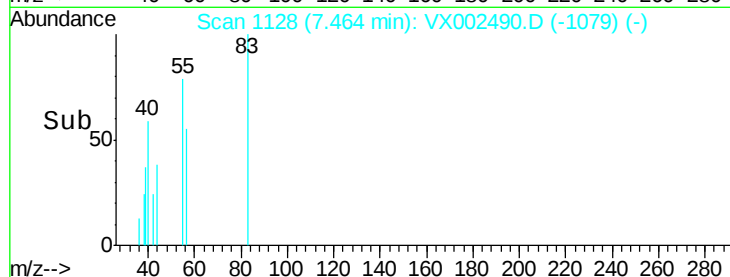
Tot Ion: 83 Resp: 35
Ion Ratio Lower Upper
83 100
55 3.2 65.4 98.0#
98 0.0 37.4 56.0#



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

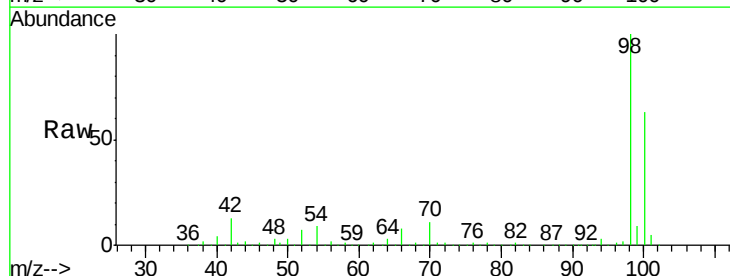


Time--> 7.45 7.46 7.47 7.48

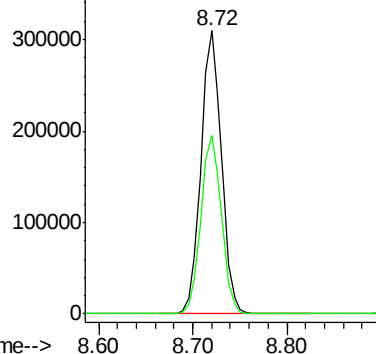


#50
Toluene-d8
Concen: 48.61 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX002490.D
Acq: 13 Jun 2018 02:38

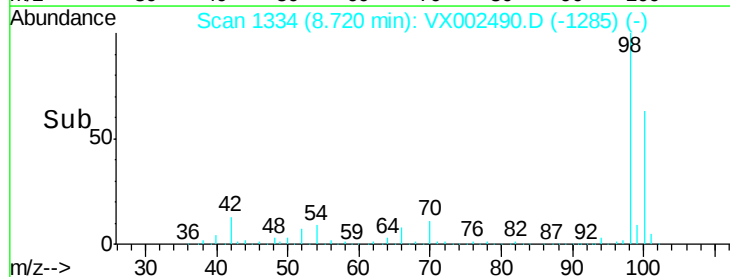
Tgt Ion: 98 Resp: 465950
Ion Ratio Lower Upper
98 100
100 63.4 50.9 76.3

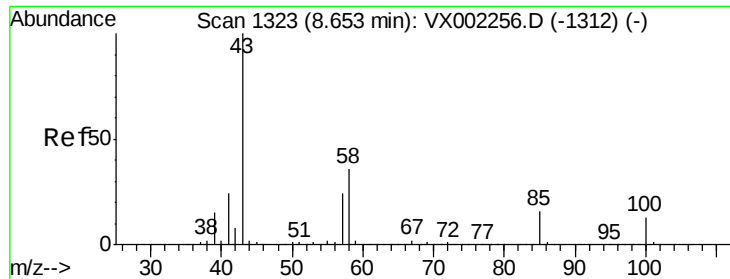


Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0



Time--> 8.60 8.70 8.80





#51

4-Methyl-2-Pentanone

Concen: 0.53 ug/l

RT: 8.65 min Scan# 1323

Delta R.T. -0.00 min

Lab File: VX002490.D

Acq: 13 Jun 2018 02:38

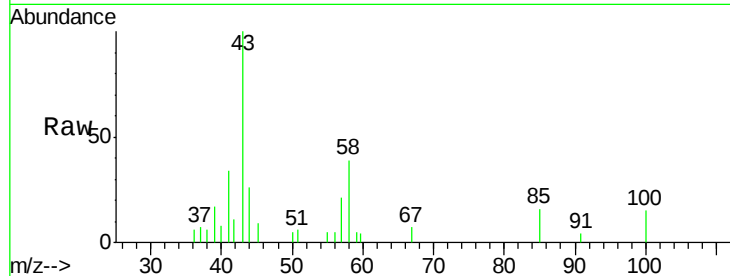
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 2261

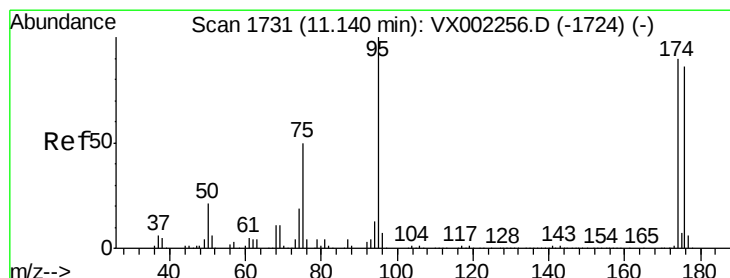
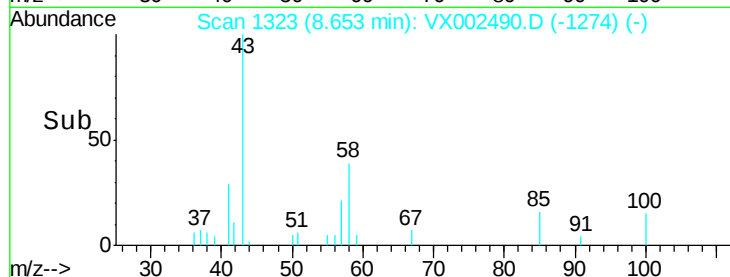
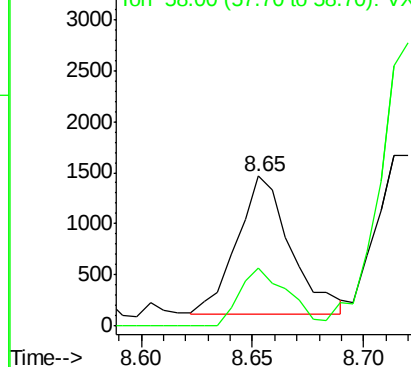
Ion Ratio Lower Upper

43 100

58 38.2 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: 44.34 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002490.D

Acq: 13 Jun 2018 02:38

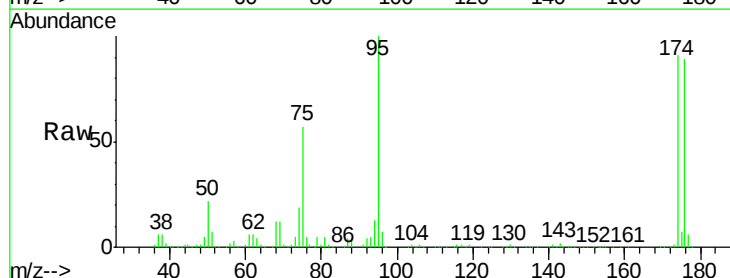
Tgt Ion: 95 Resp: 163914

Ion Ratio Lower Upper

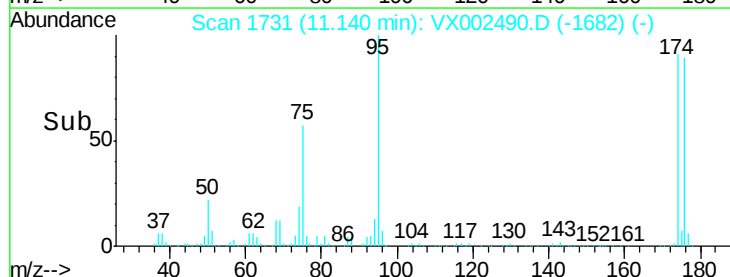
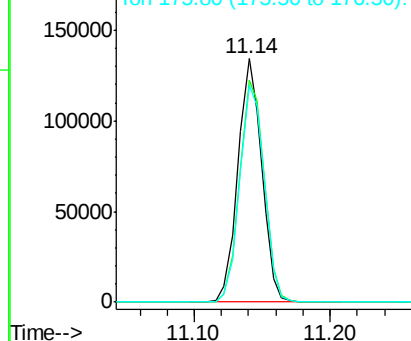
95 100

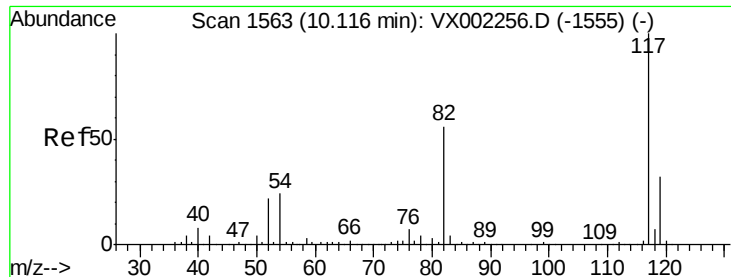
174 93.9 0.0 187.4

176 91.9 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

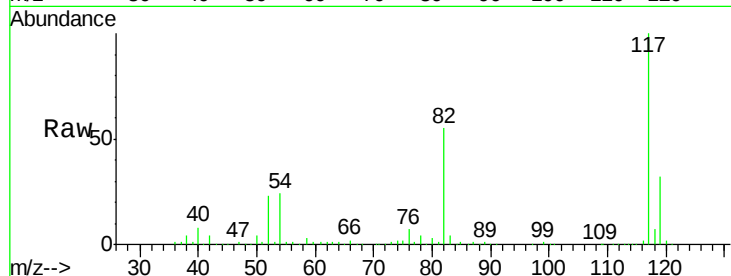




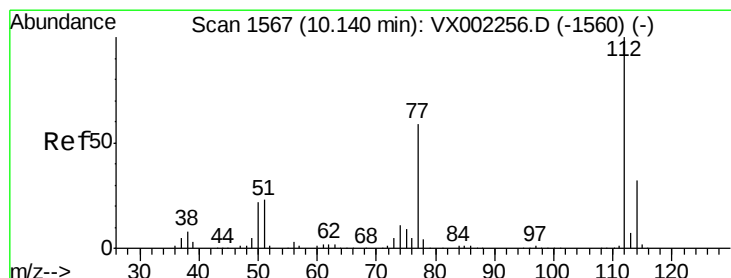
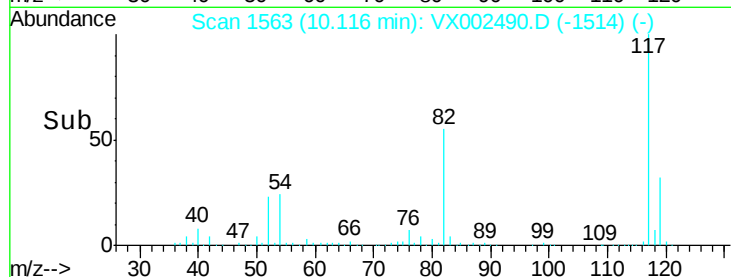
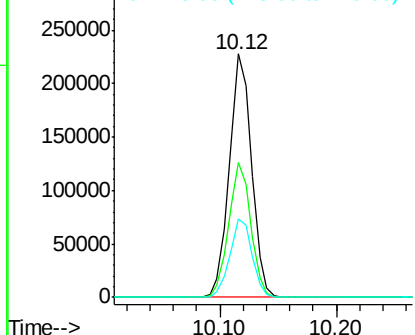
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002490.D
Acq: 13 Jun 2018 02:38

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 302721
Ion Ratio Lower Upper
117 100
82 55.3 45.0 67.4
119 32.3 25.8 38.6

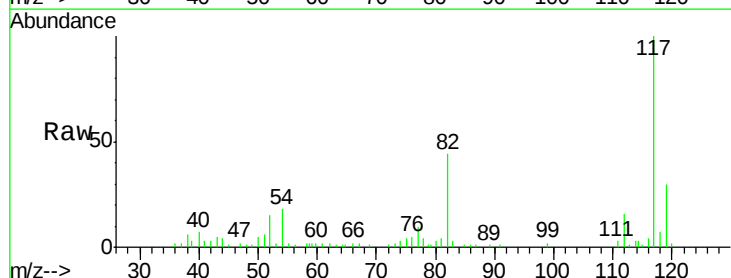


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

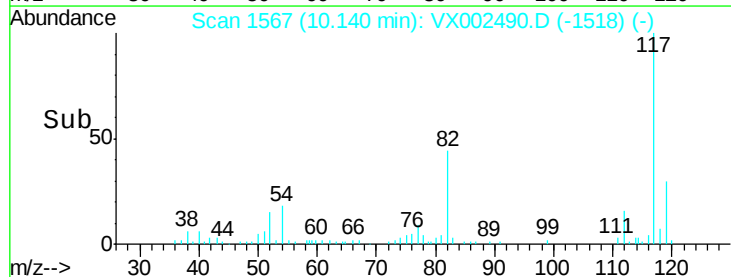
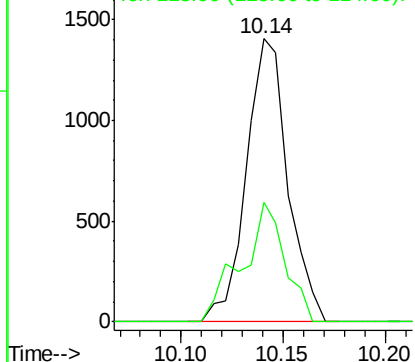


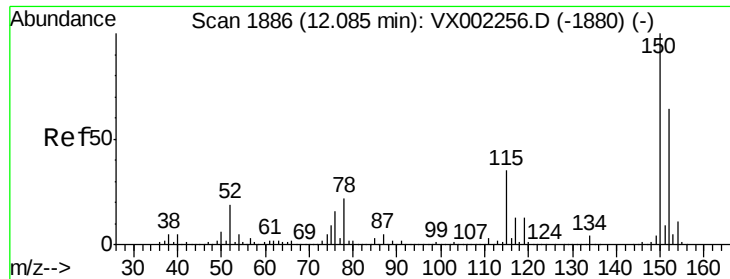
#65
Chlorobenzene
Concen: 0.26 ug/l
RT: 10.14 min Scan# 1567
Delta R.T. -0.00 min
Lab File: VX002490.D
Acq: 13 Jun 2018 02:38

Tgt Ion:112 Resp: 1990
Ion Ratio Lower Upper
112 100
114 42.3 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: VX002490.D

Acq: 13 Jun 2018 02:38

Instrument :

MSVOA_X

ClientSampled :

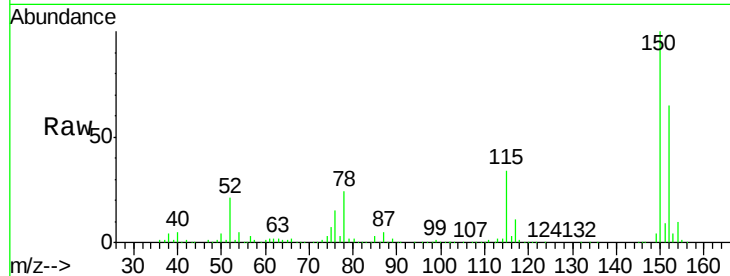
Tot Ion:152 Resp: 175780

Ion Ratio Lower Upper

152 100

115 54.6 40.1 120.2

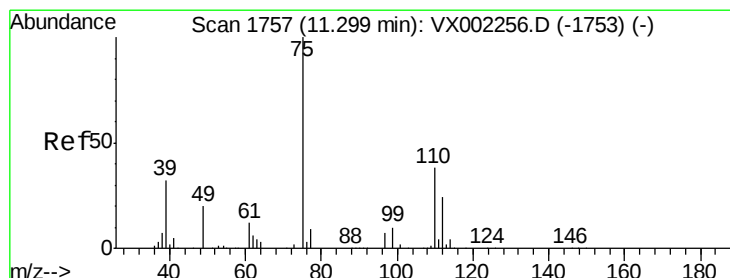
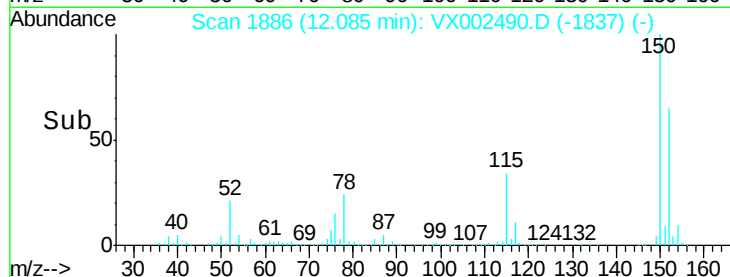
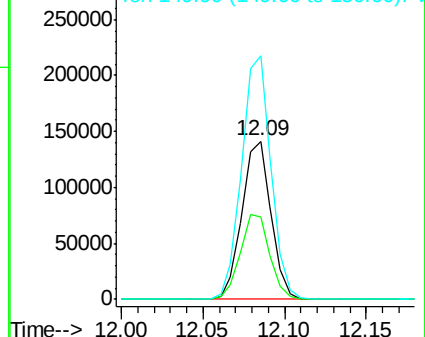
150 155.4 0.0 347.2



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: 23.64 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002490.D

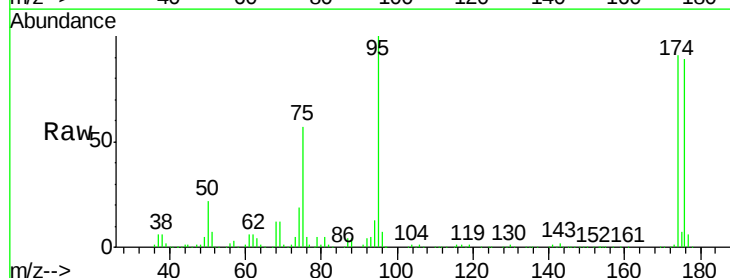
Acq: 13 Jun 2018 02:38

Tgt Ion: 75 Resp: 91178

Ion Ratio Lower Upper

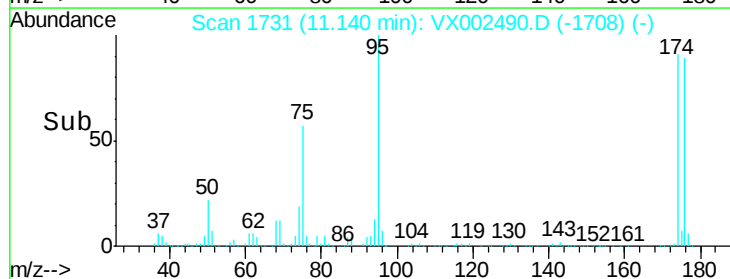
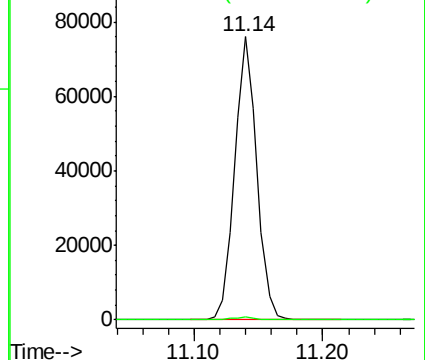
75 100

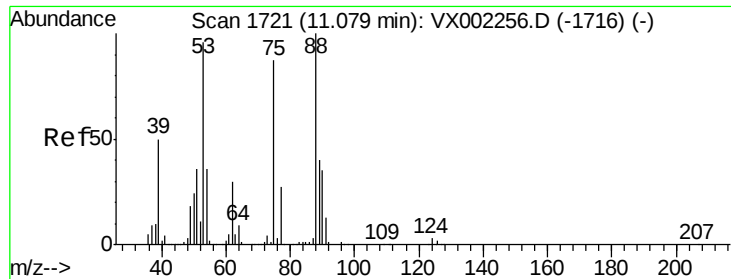
77 1.2 22.8 68.3#



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: 82.86 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002490.D

Acq: 13 Jun 2018 02:38

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 91178

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

89 0.0 38.2 57.2#

