

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060518\
 Data File : VX002330.D
 Acq On : 06 Jun 2018 03:04
 Operator : JC/MD
 Sample : J3308-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 06 04:39:52 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	235286	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	343250	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	323595	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	183290	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	164611	48.84	ug/l	0.00
Spiked Amount			Recovery	=	97.68%	
35) Dibromofluoromethane	5.51	113	120610	44.68	ug/l	0.00
Spiked Amount			Recovery	=	89.36%	
50) Toluene-d8	8.72	98	497802	48.11	ug/l	0.00
Spiked Amount			Recovery	=	96.22%	
62) 4-Bromofluorobenzene	11.14	95	175283	43.93	ug/l	0.00
Spiked Amount			Recovery	=	87.86%	

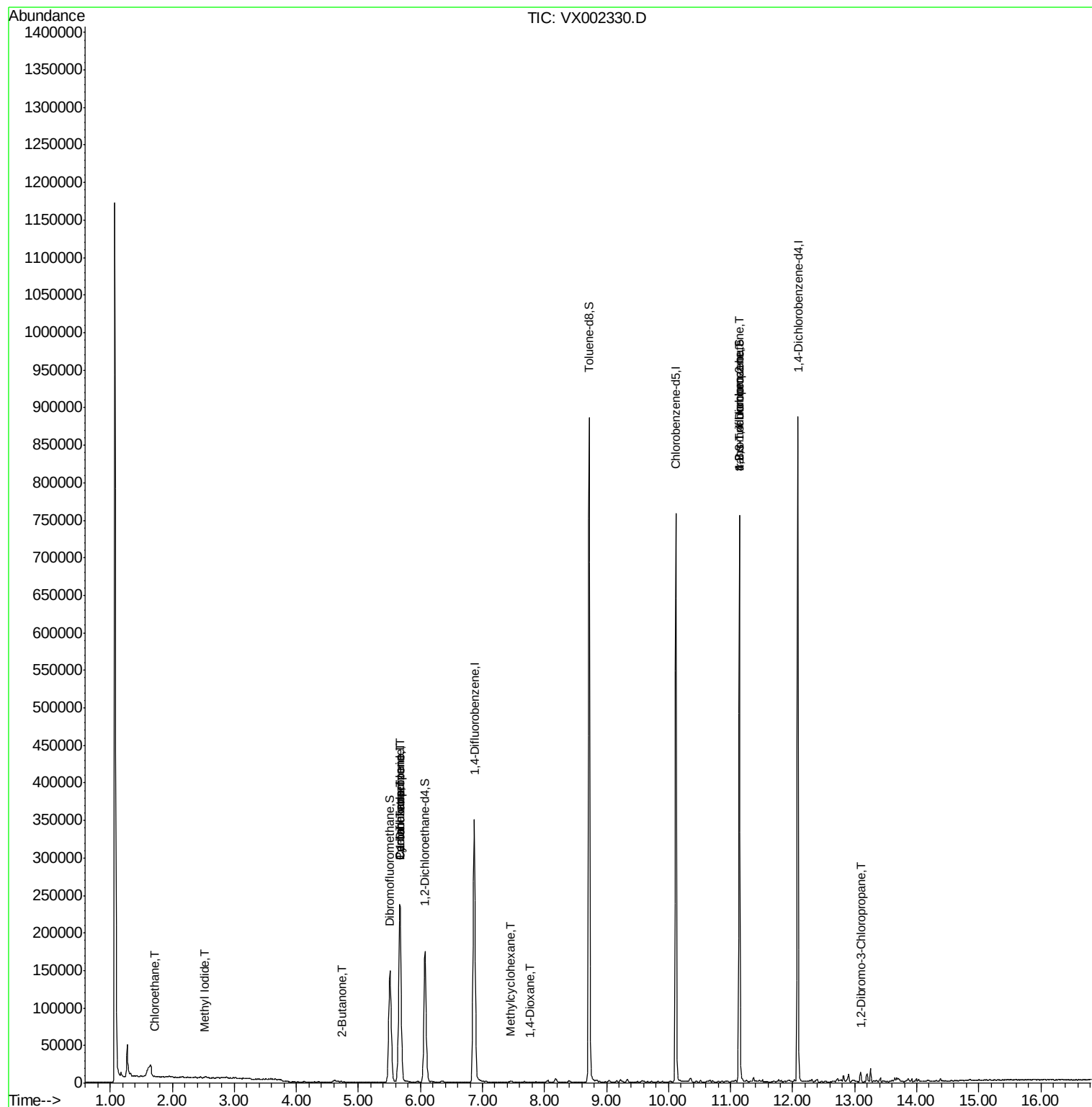
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	463	Below Cal		96
5) Bromomethane	1.64	94	1839	Below Cal		92
6) Chloroethane	1.70	64	466	0.23 ug/l	#	43
8) Diethyl Ether	2.20	74	41	Below Cal		71
10) Methyl Iodide	2.52	142	1682	0.47 ug/l	#	95
11) Tert butyl alcohol	3.08	59	519	Below Cal	#	71
13) Acrolein	2.29	56	183	Below Cal	#	12
15) Acrylonitrile	3.15	53	258	Below Cal	#	17
16) Acetone	2.45	43	2127	Below Cal		89
18) Methyl Acetate	2.78	43	616	Below Cal		99
19) Methyl tert-butyl Ether	3.21	73	181	Below Cal	#	54
20) Methylene Chloride	2.87	84	471	Below Cal	#	59
22) Diisopropyl ether	3.89	45	46	Below Cal	#	35
25) 2-Butanone	4.72	43	628	0.27 ug/l		96
28) Bromochloromethane	5.01	49	45	Below Cal	#	13
31) Cyclohexane	5.67	56	5587	1.32 ug/l	#	8
36) 1,1-Dichloropropene	5.67	75	17107	4.74 ug/l	#	51
38) Carbon Tetrachloride	5.67	117	22541	5.97 ug/l	#	15
39) Methylcyclohexane	7.46	83	388	0.35 ug/l	#	47
49) 1,4-Dioxane	7.77	88	20	0.29 ug/l	#	22
76) 1,2,3-Trichloropropane	11.14	75	95756	23.81 ug/l	#	33
81) trans-1,4-Dichloro-2-buten	11.14	75	95756	83.46 ug/l	#	6
92) 1,2-Dibromo-3-Chloropropan	13.10	75	178	0.20 ug/l	#	1

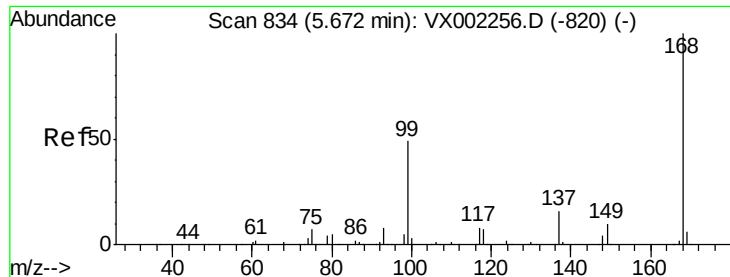
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX002330.D

Acq: 06 Jun 2018 03:04

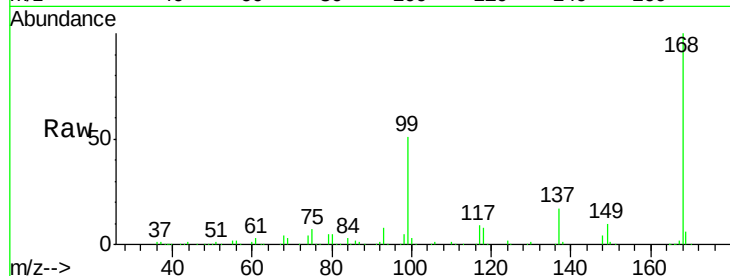
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 235286

Ion Ratio Lower Upper

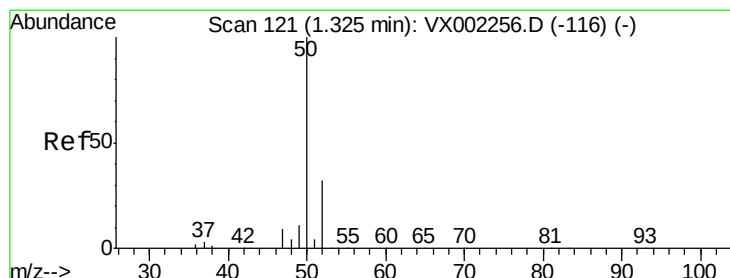
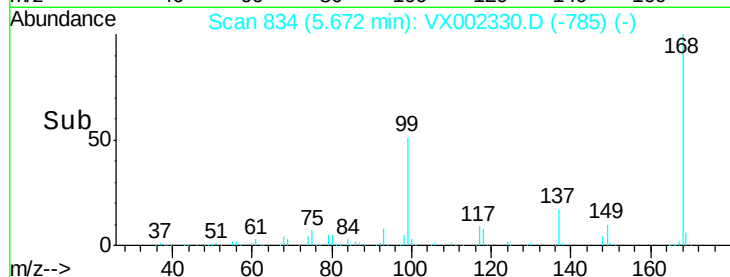
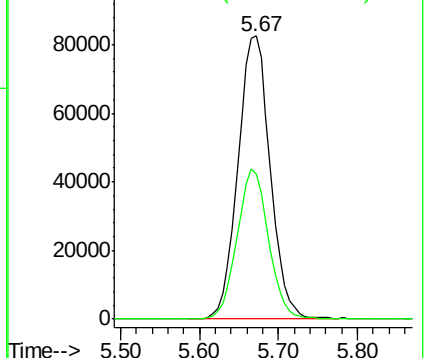
168 100

99 51.4 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: VX002330.D

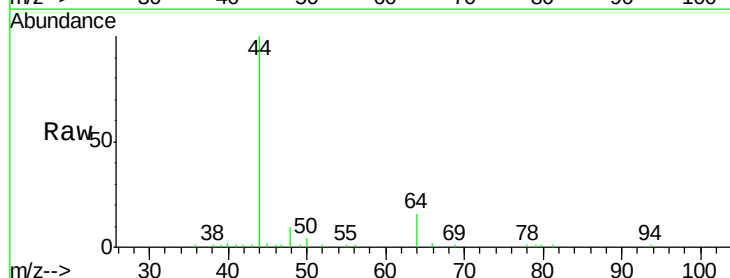
Acq: 06 Jun 2018 03:04

Tgt Ion: 50 Resp: 463

Ion Ratio Lower Upper

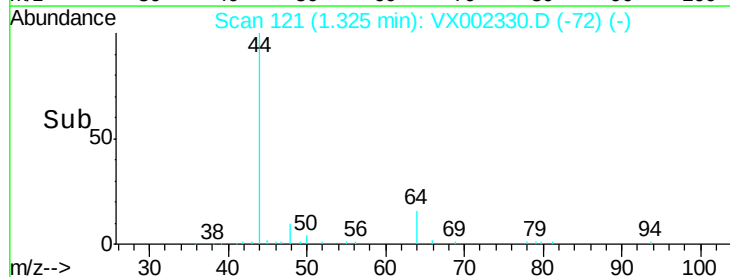
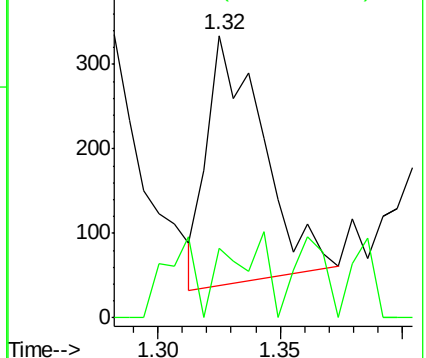
50 100

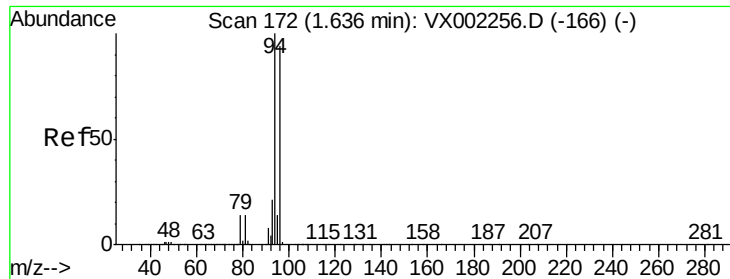
52 30.0 25.7 38.5



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: 1.64 min Scan# 173

Delta R.T. 0.01 min

Lab File: VX002330.D

Acq: 06 Jun 2018 03:04

Instrument :

MSVOA_X

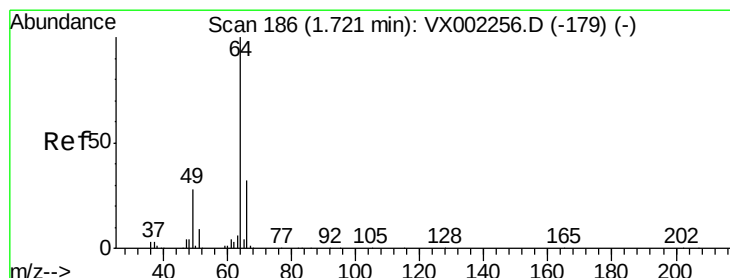
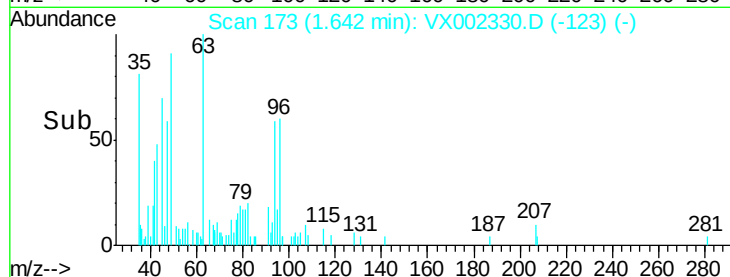
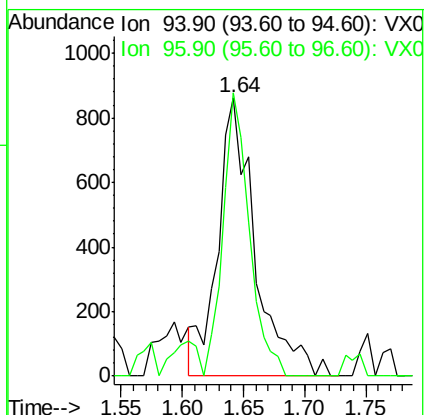
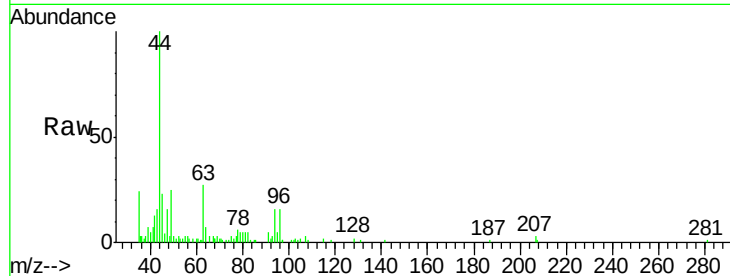
ClientSampleId :

Tot Ion: 94 Resp: 1839

Ion Ratio Lower Upper

94 100

96 101.6 74.9 112.3



#6

Chloroethane

Concen: 0.23 ug/l

RT: 1.70 min Scan# 183

Delta R.T. -0.02 min

Lab File: VX002330.D

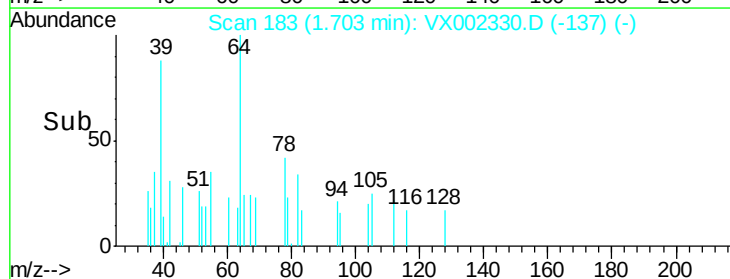
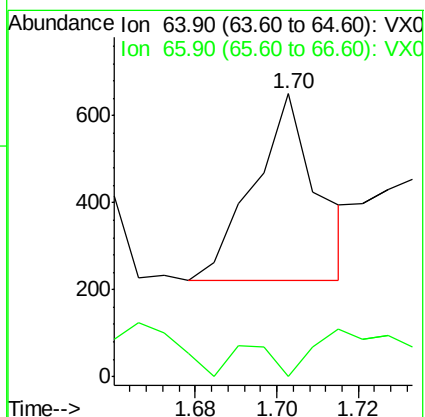
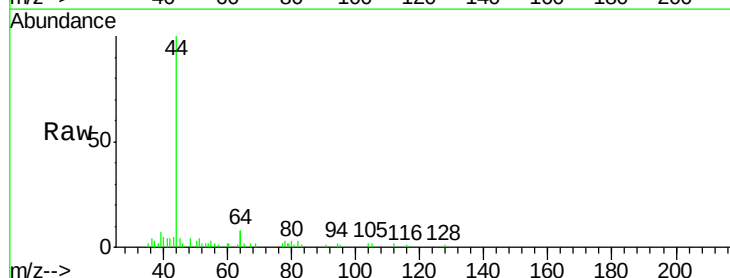
Acq: 06 Jun 2018 03:04

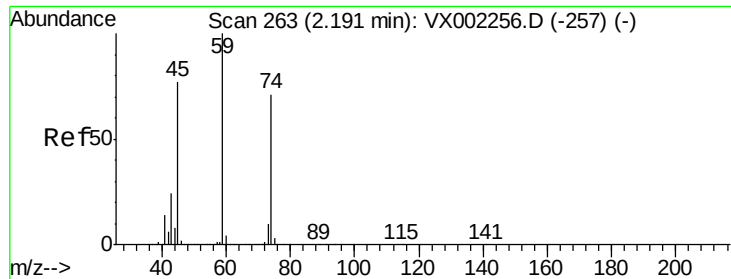
Tgt Ion: 64 Resp: 466

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#





#8

Diethyl Ether

Concen: Below Cal

RT: 2.20 min Scan# 264

Delta R.T. 0.01 min

Lab File: VX002330.D

Acq: 06 Jun 2018 03:04

Instrument :

MSVOA_X

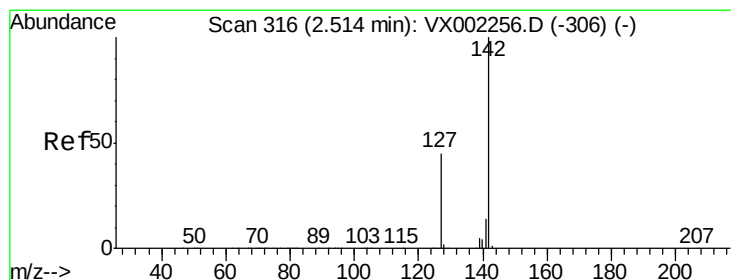
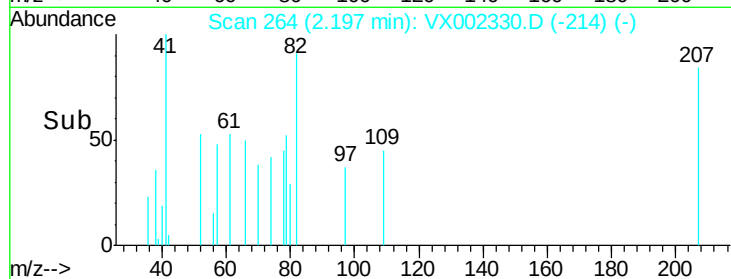
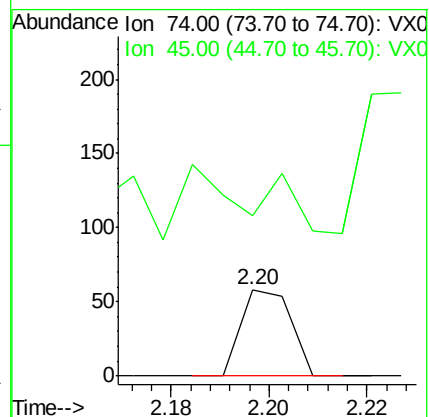
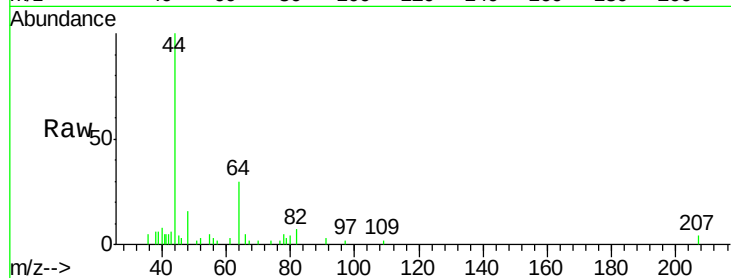
ClientSampleId :

Tot Ion: 74 Resp: 41

Ion Ratio Lower Upper

74 100

45 136.6 53.1 159.4



#10

Methyl Iodide

Concen: 0.47 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002330.D

Acq: 06 Jun 2018 03:04

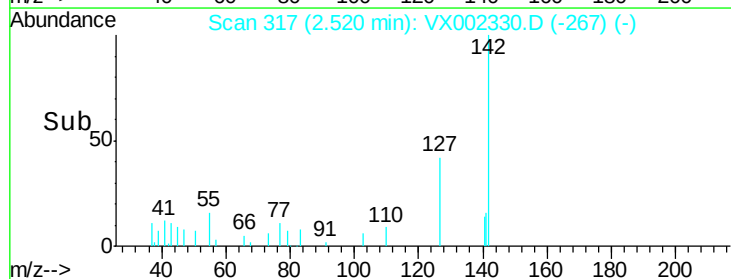
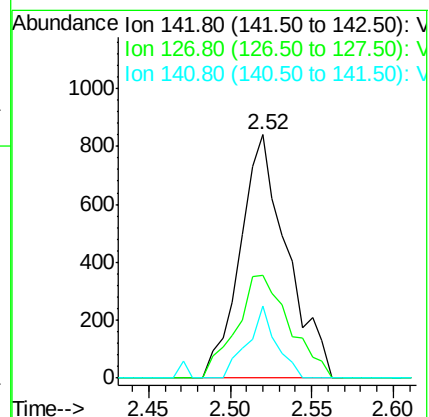
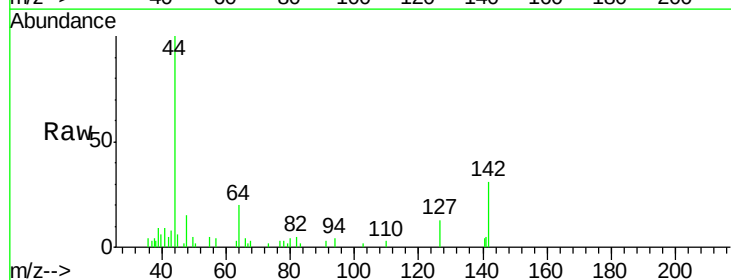
Tgt Ion: 142 Resp: 1682

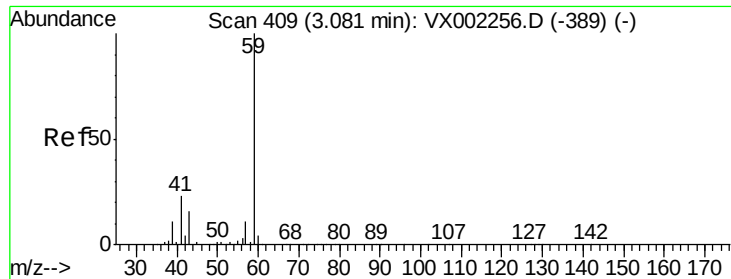
Ion Ratio Lower Upper

142 100

127 47.8 36.6 55.0

141 18.3 11.3 16.9#



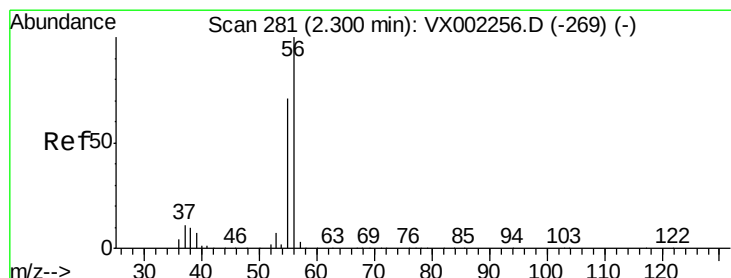
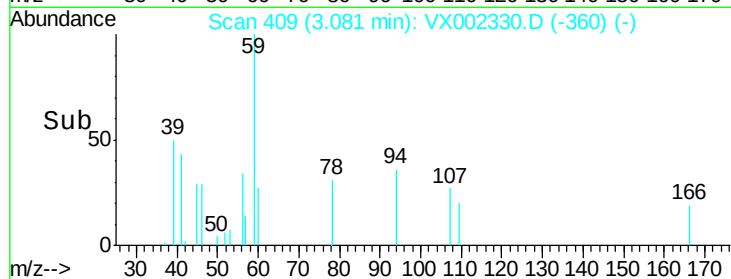
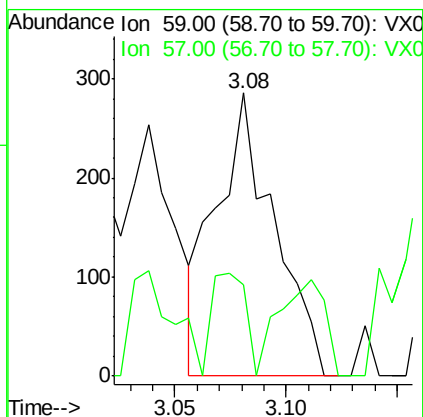
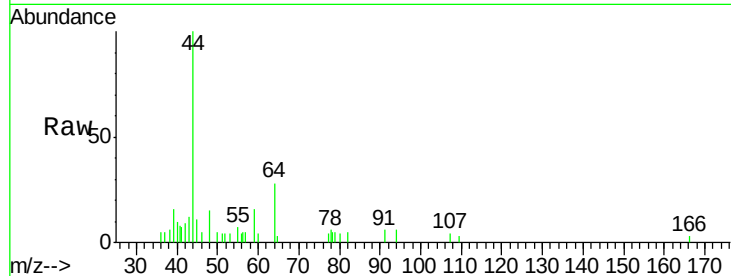


#11

Tert butyl alcohol
Concen: Below Cal
RT: 3.08 min Scan# 409
Delta R.T. 0.00 min
Lab File: VX002330.D
Acq: 06 Jun 2018 03:04

Instrument :
MSVOA_X
ClientSampled :

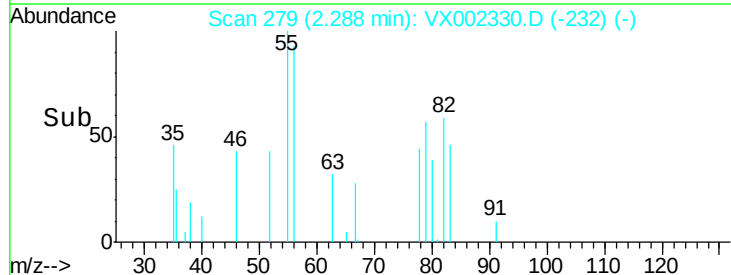
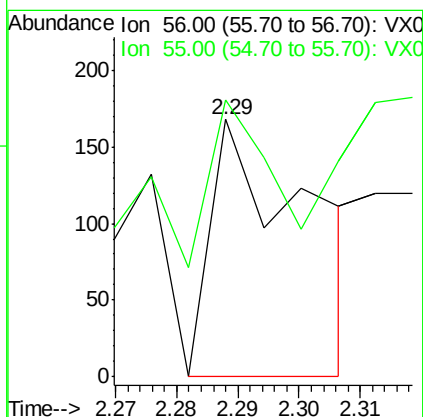
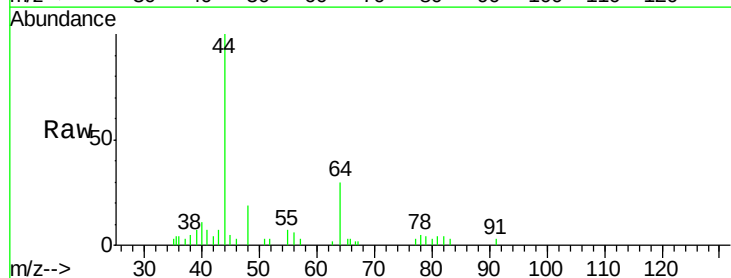
Tot Ion: 59 Resp: 519
Ion Ratio Lower Upper
59 100
57 21.0 8.2 12.2#

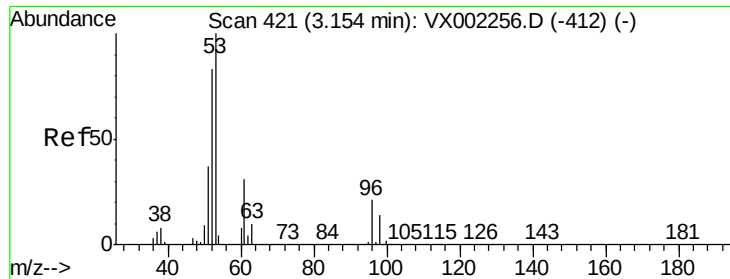


#13

Acrolein
Concen: Below Cal
RT: 2.29 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX002330.D
Acq: 06 Jun 2018 03:04

Tgt Ion: 56 Resp: 183
Ion Ratio Lower Upper
56 100
55 143.7 57.0 85.4#





#15

Acrylonitrile

Concen: Below Cal

RT: 3.15 min Scan# 421

Delta R.T. 0.00 min

Lab File: VX002330.D

Acq: 06 Jun 2018 03:04

Instrument :

MSVOA_X

ClientSampled :

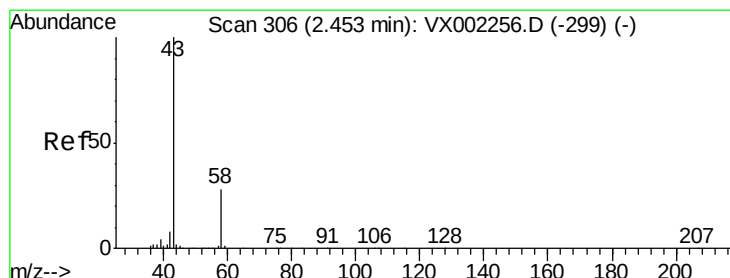
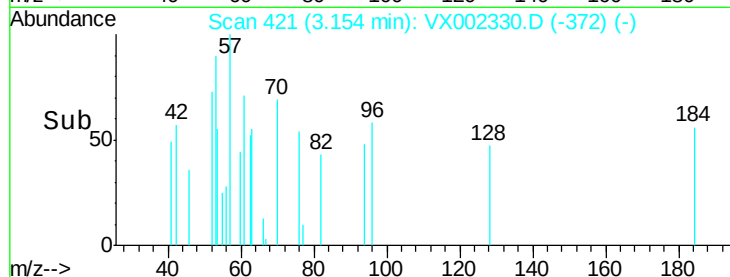
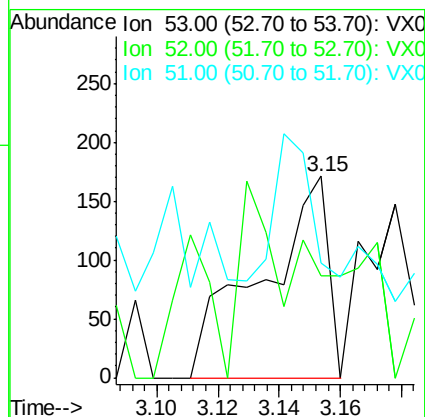
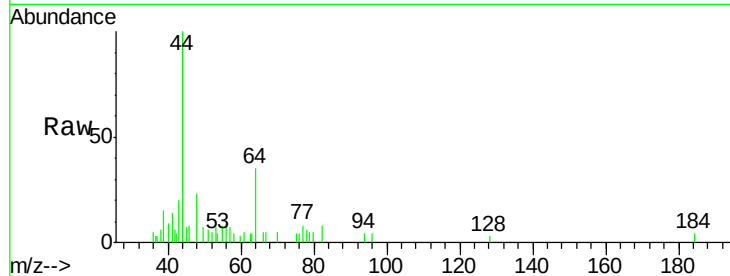
Tot Ion: 53 Resp: 258

Ion Ratio Lower Upper

53 100

52 0.0 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: VX002330.D

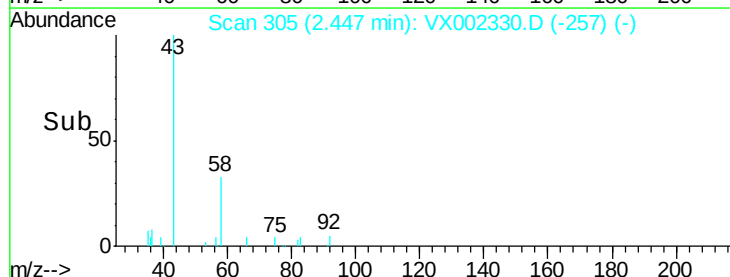
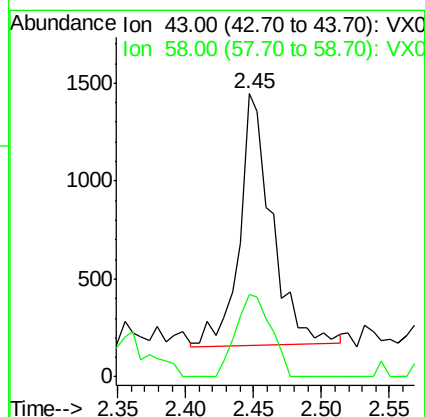
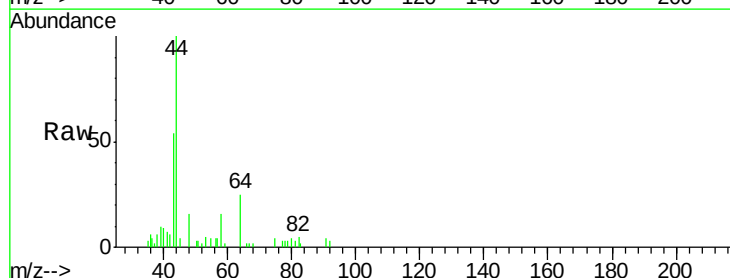
Acq: 06 Jun 2018 03:04

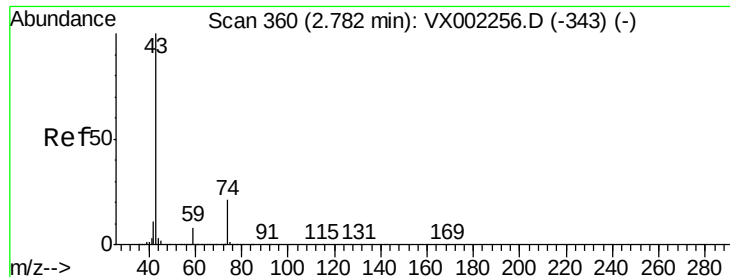
Tgt Ion: 43 Resp: 2127

Ion Ratio Lower Upper

43 100

58 33.1 22.1 33.1

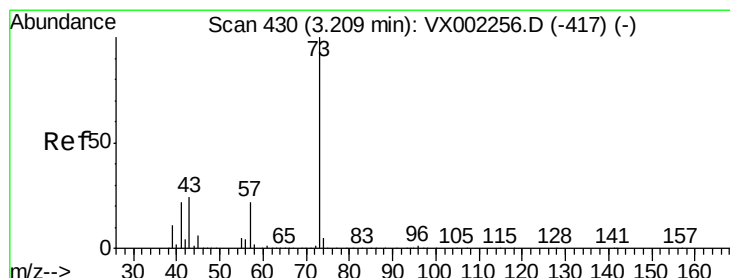
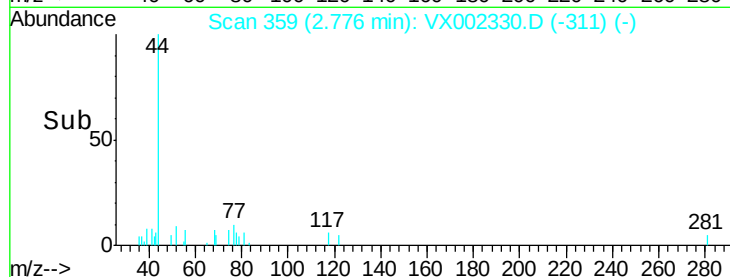
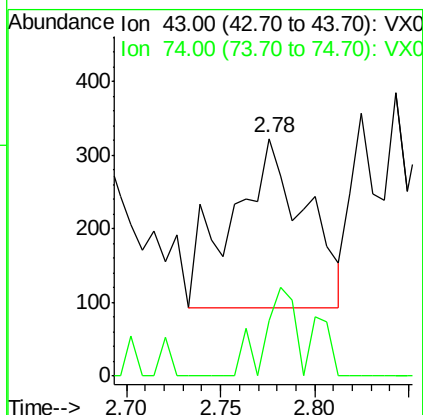
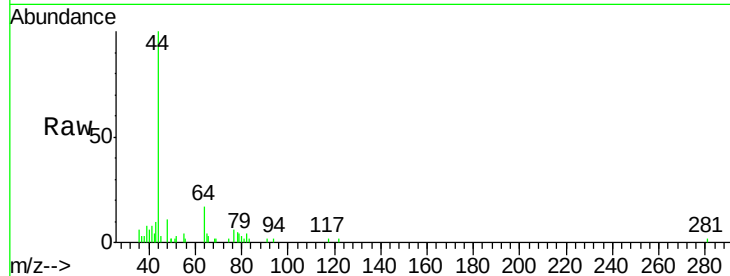




#18
Methyl Acetate
Concen: Below Cal
RT: 2.78 min Scan# 359
Delta R.T. -0.01 min
Lab File: VX002330.D
Acq: 06 Jun 2018 03:04

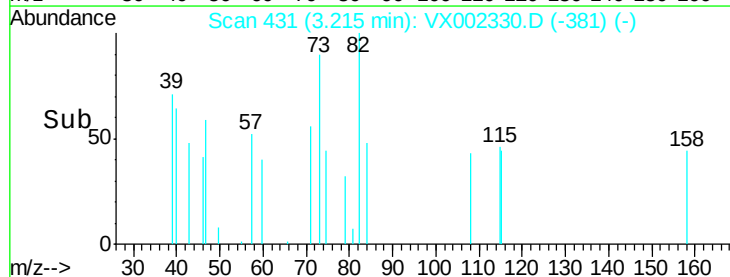
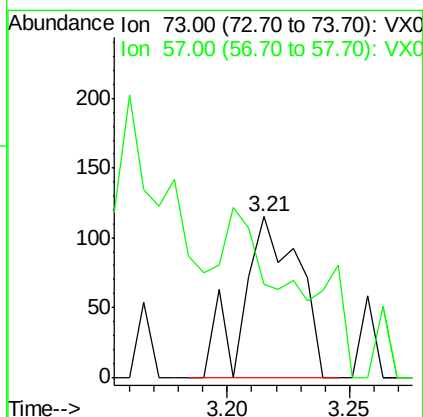
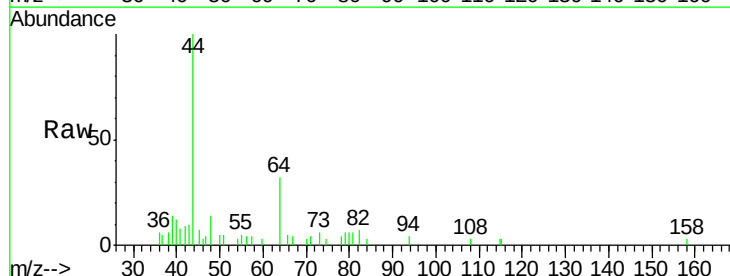
Instrument :
MSVOA_X
ClientSampled :

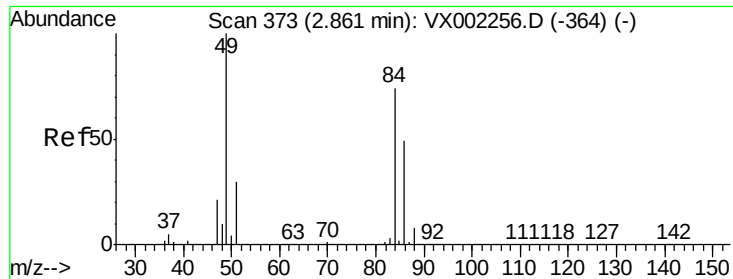
Tot Ion: 43 Resp: 616
Ion Ratio Lower Upper
43 100
74 21.4 16.7 25.1



#19
Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.21 min Scan# 431
Delta R.T. 0.01 min
Lab File: VX002330.D
Acq: 06 Jun 2018 03:04

Tgt Ion: 73 Resp: 181
Ion Ratio Lower Upper
73 100
57 0.0 17.7 26.5#

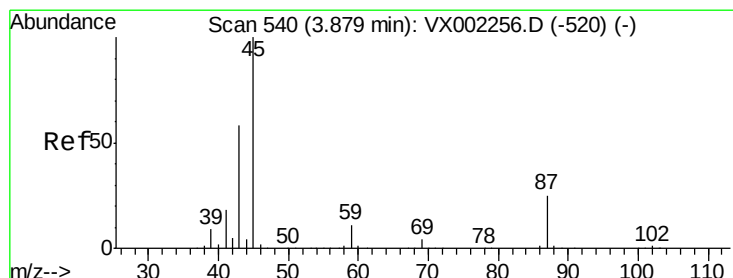
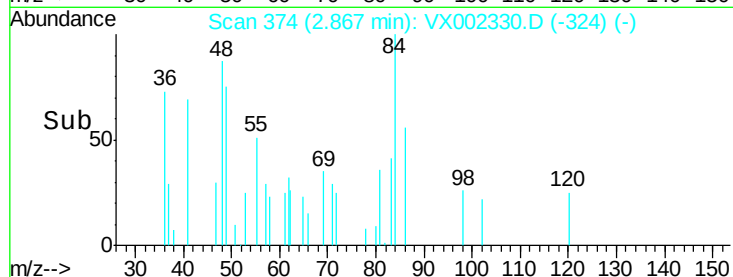
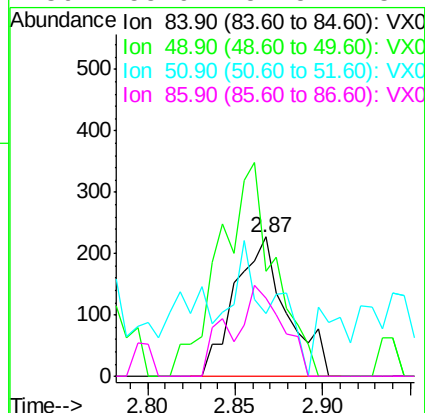
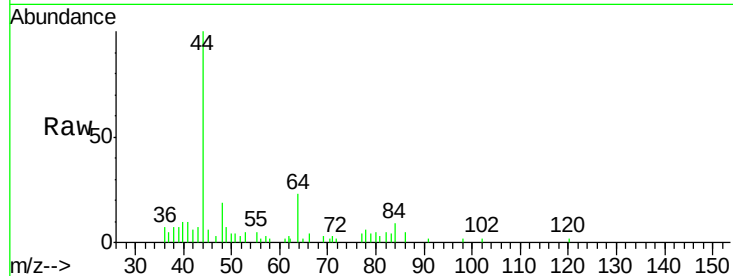




#20
Methylene Chloride
Concen: Below Cal
RT: 2.87 min Scan# 374
Delta R.T. 0.01 min
Lab File: VX002330.D
Acq: 06 Jun 2018 03:04

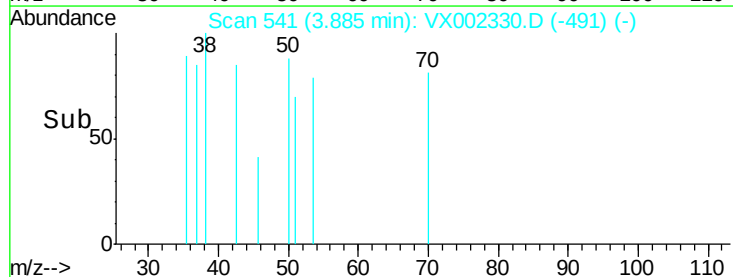
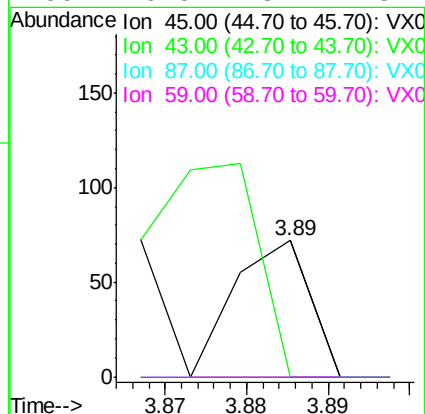
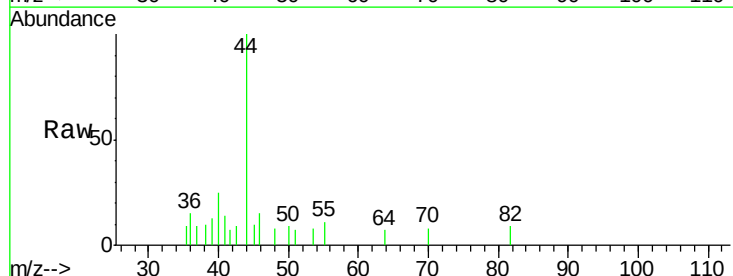
Instrument :
MSVOA_X
ClientSampled :

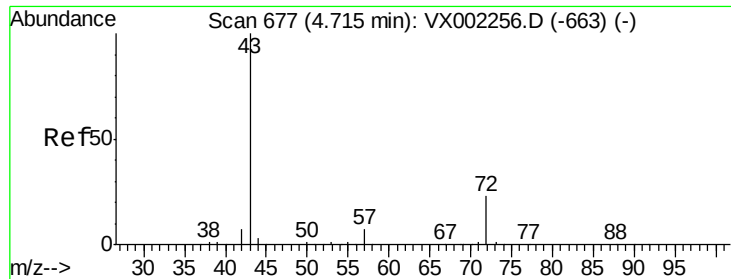
Tot Ion: 84 Resp: 471
Ion Ratio Lower Upper
84 100
49 75.3 107.8 161.6#
51 3.1 32.8 49.2#
86 55.9 52.5 78.7



#22
Diisopropyl ether
Concen: Below Cal
RT: 3.89 min Scan# 541
Delta R.T. 0.01 min
Lab File: VX002330.D
Acq: 06 Jun 2018 03:04

Tgt Ion: 45 Resp: 46
Ion Ratio Lower Upper
45 100
43 0.0 46.8 70.2#
87 0.0 20.2 30.4#
59 0.0 8.7 13.1#

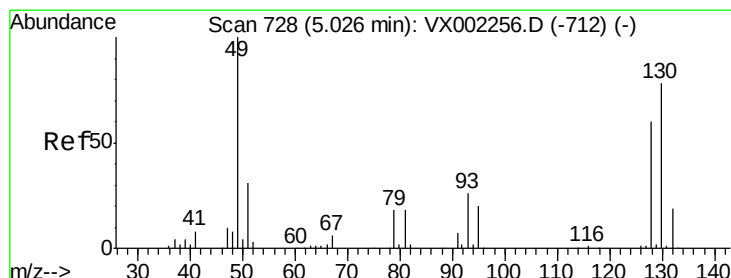
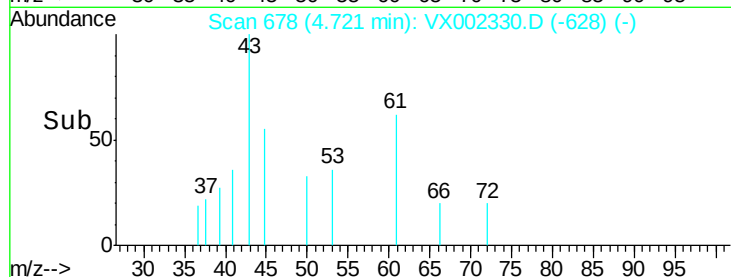
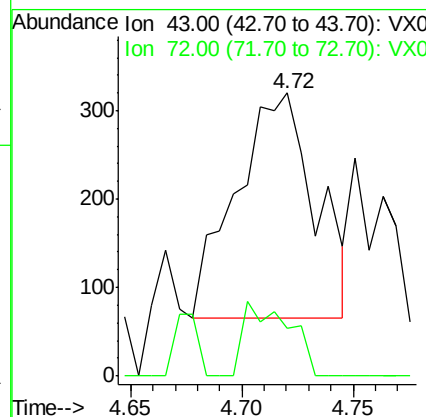
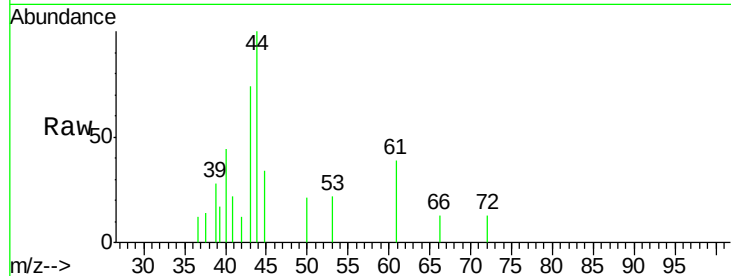




#25
2-Butanone
Concen: 0.27 ug/l
RT: 4.72 min Scan# 678
Delta R.T. 0.01 min
Lab File: VX002330.D
Acq: 06 Jun 2018 03:04

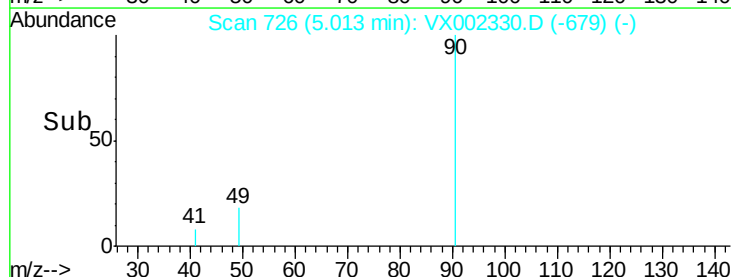
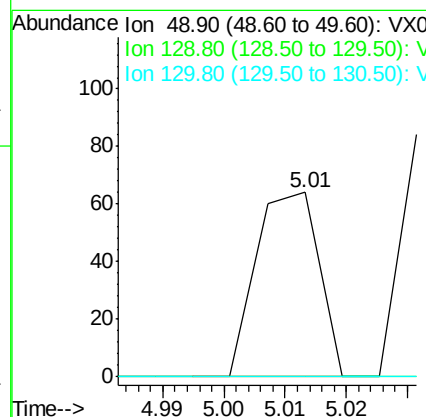
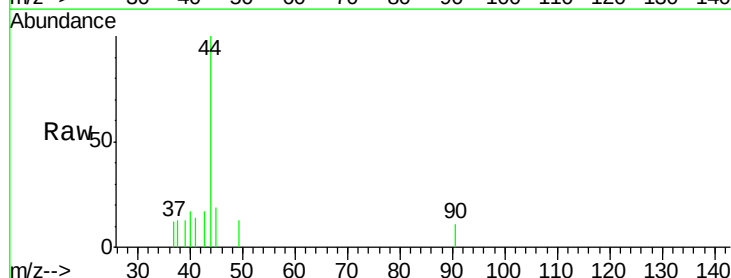
Instrument :
MSVOA_X
ClientSampleId :

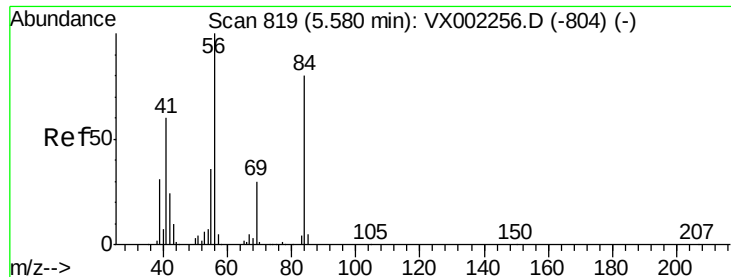
Tot Ion: 43 Resp: 628
Ion Ratio Lower Upper
43 100
72 21.3 18.5 27.7



#28
Bromochloromethane
Concen: Below Cal
RT: 5.01 min Scan# 726
Delta R.T. -0.01 min
Lab File: VX002330.D
Acq: 06 Jun 2018 03:04

Tgt Ion: 49 Resp: 45
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.2
130 0.0 61.2 91.8#

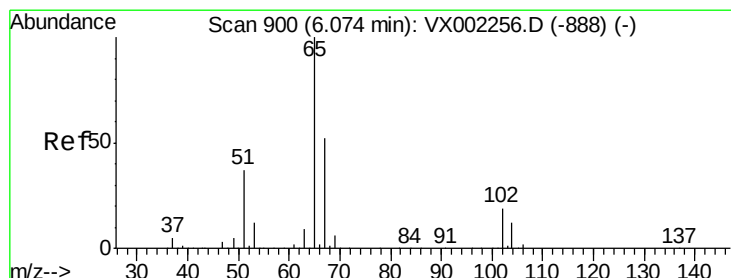
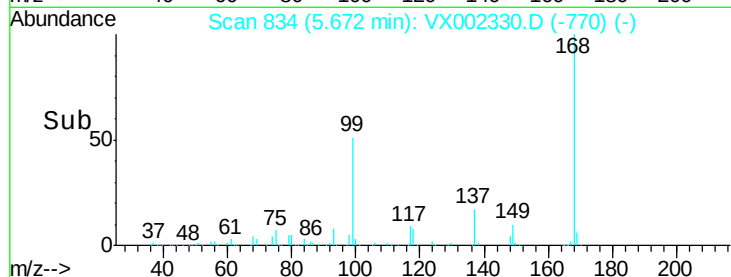
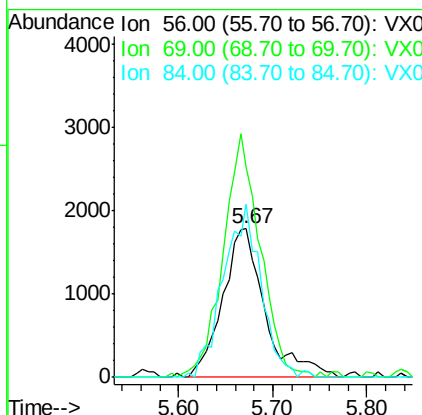
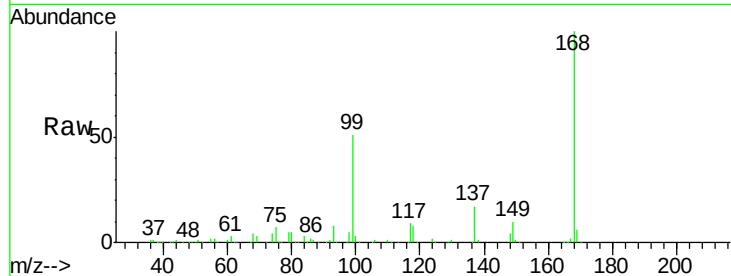




#31
Cyclohexane
Concen: 1.32 ug/l
RT: 5.67 min Scan# 834
Delta R.T. 0.09 min
Lab File: VX002330.D
Acq: 06 Jun 2018 03:04

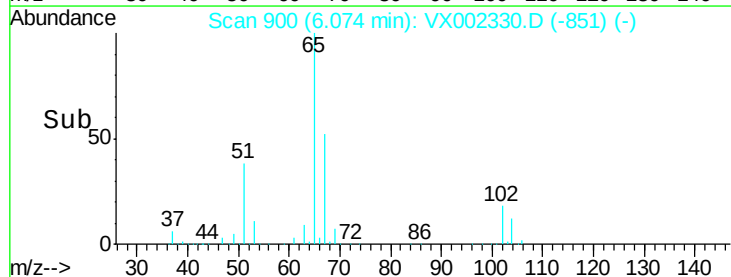
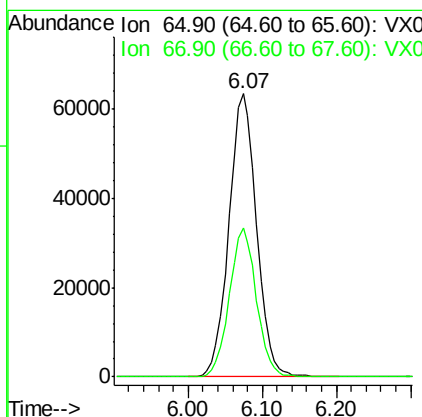
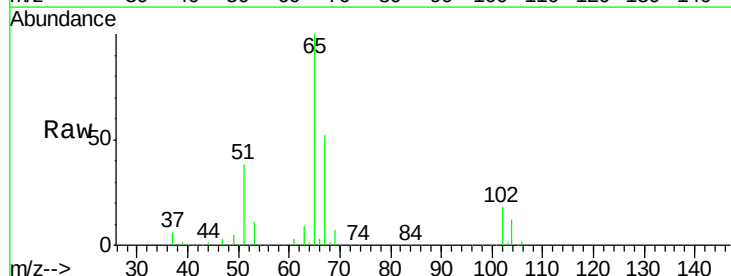
Instrument :
MSVOA_X
ClientSampled :

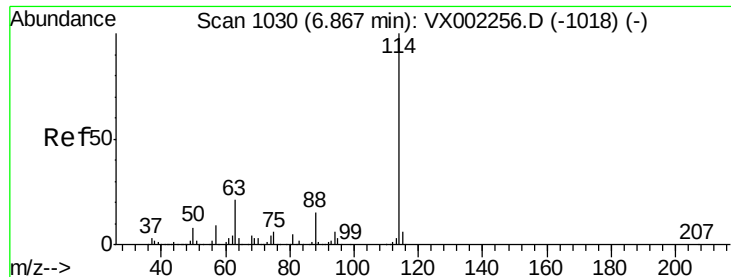
Tot Ion	56	Resp	5587
Ion Ratio	Lower	Upper	
56	100		
69	138.5	23.7	35.5#
84	124.9	64.1	96.1#



#33
1,2-Dichloroethane-d4
Concen: 48.84 ug/l
RT: 6.07 min Scan# 900
Delta R.T. -0.00 min
Lab File: VX002330.D
Acq: 06 Jun 2018 03:04

Tgt Ion	65	Resp	164611
Ion Ratio	Lower	Upper	
65	100		
67	51.7	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: VX002330.D

Acq: 06 Jun 2018 03:04

Instrument :
MSVOA_X
ClientSampleId :

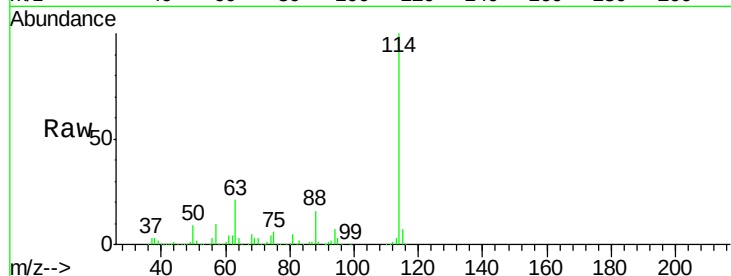
Tot Ion:114 Resp: 343250

Ion Ratio Lower Upper

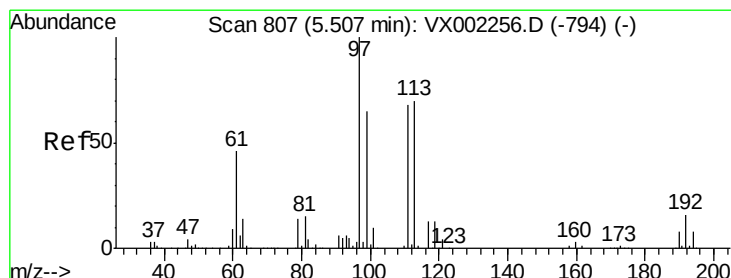
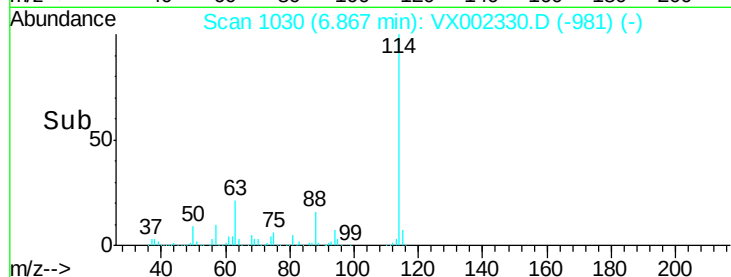
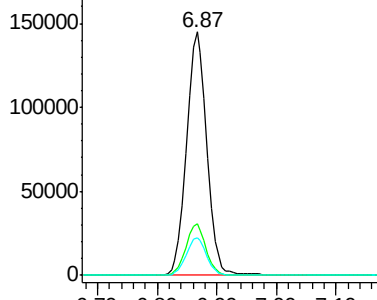
114 100

63 21.0 0.0 41.4

88 15.7 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: 44.68 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002330.D

Acq: 06 Jun 2018 03:04

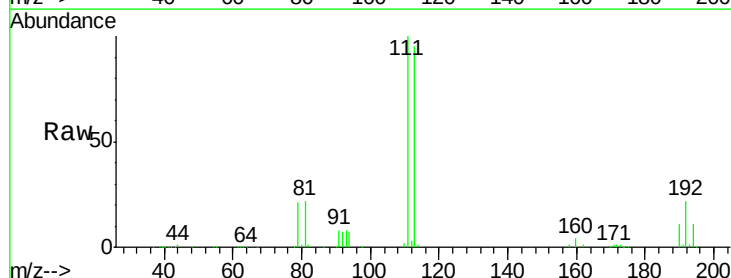
Tgt Ion:113 Resp: 120610

Ion Ratio Lower Upper

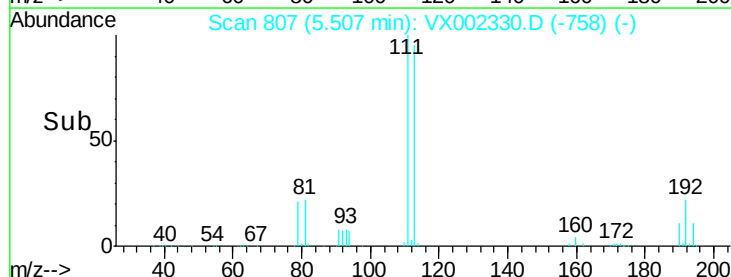
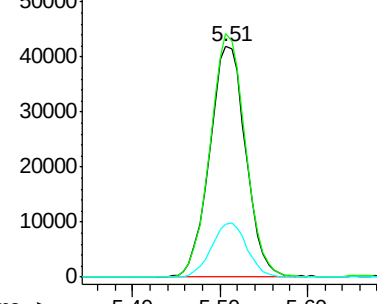
113 100

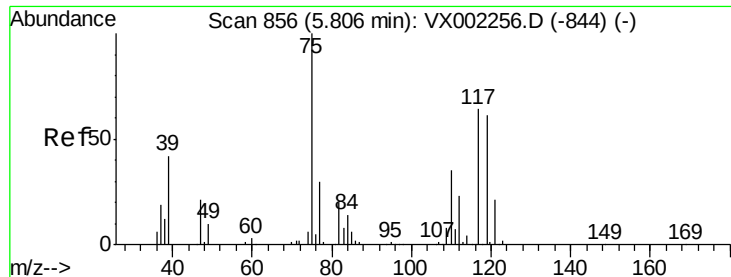
111 103.1 81.4 122.0

192 23.1 19.1 28.7



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

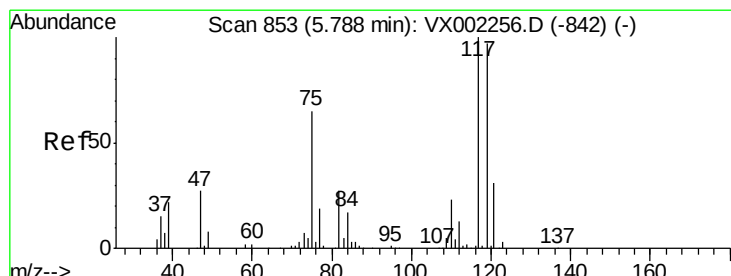
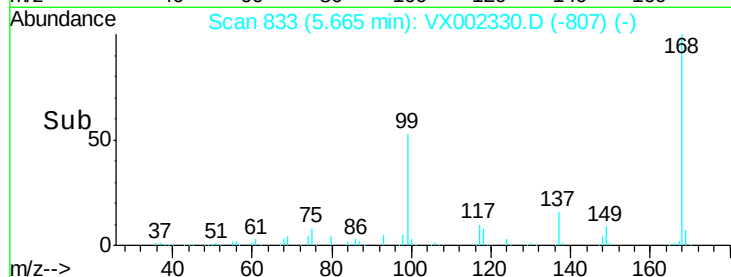
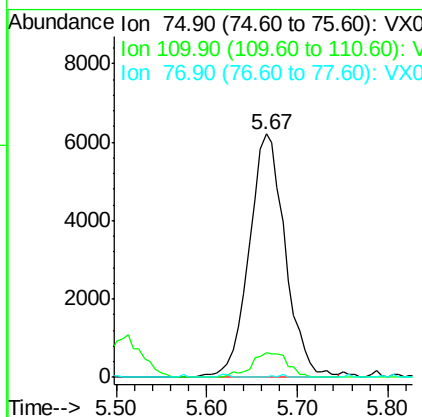
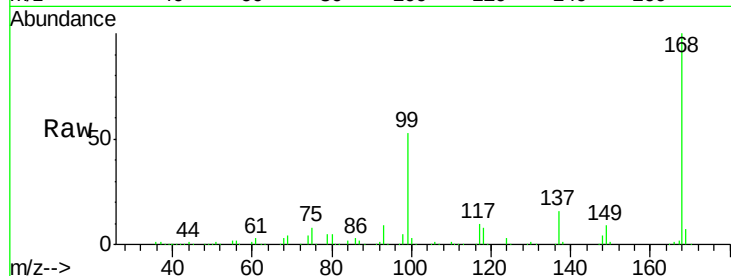




#36
 1,1-Dichloropropene
 Concen: 4.74 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.14 min
 Lab File: VX002330.D
 Acq: 06 Jun 2018 03:04

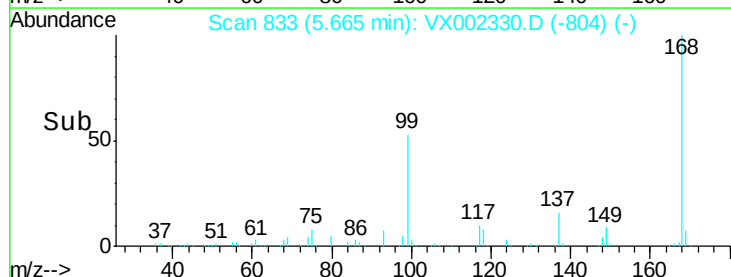
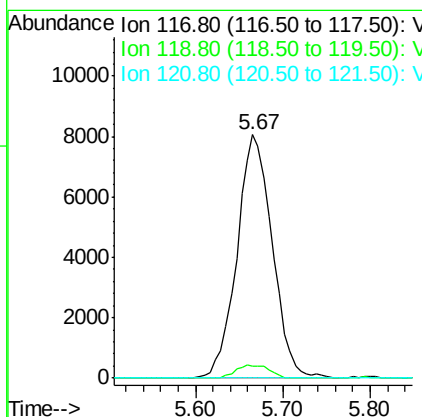
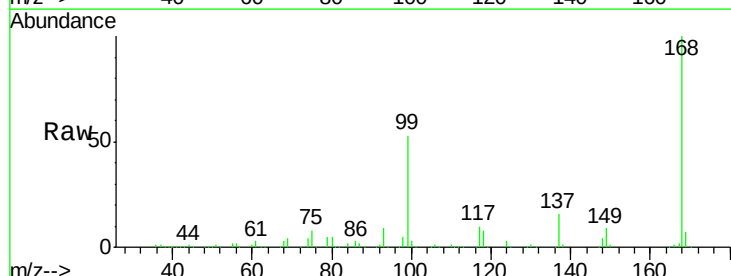
Instrument :
 MSVOA_X
 ClientSampleId :

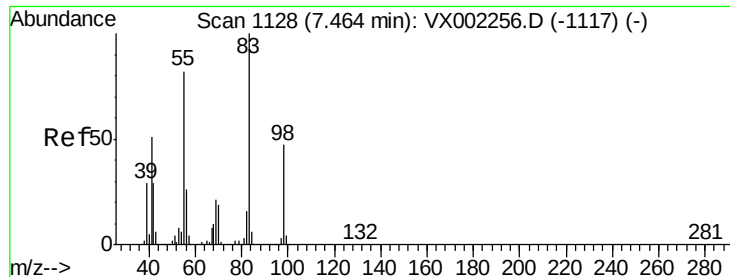
Tot Ion: 75 Resp: 17107
 Ion Ratio Lower Upper
 75 100
 110 10.3 18.1 54.4#
 77 0.1 24.3 36.5#



#38
 Carbon Tetrachloride
 Concen: 5.97 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX002330.D
 Acq: 06 Jun 2018 03:04

Tgt Ion: 117 Resp: 22541
 Ion Ratio Lower Upper
 117 100
 119 4.9 77.4 116.0#
 121 0.0 24.4 36.6#

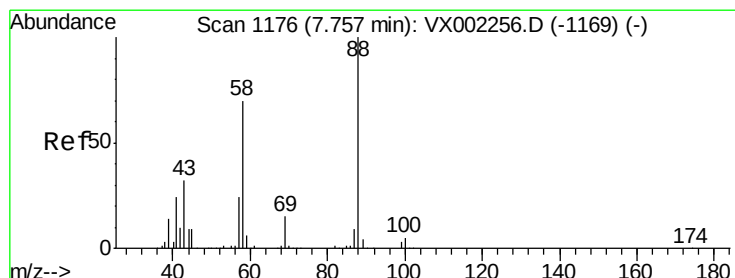
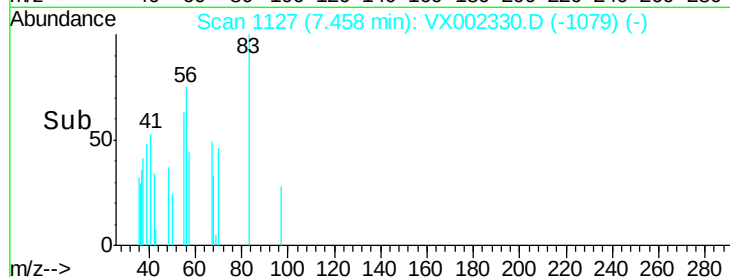
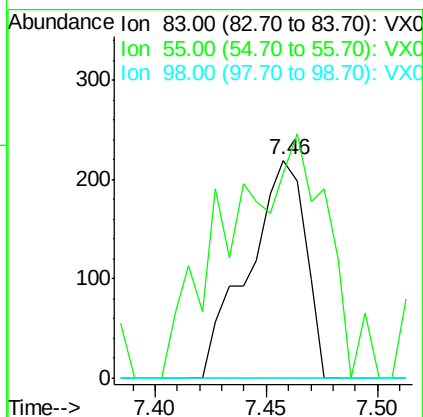
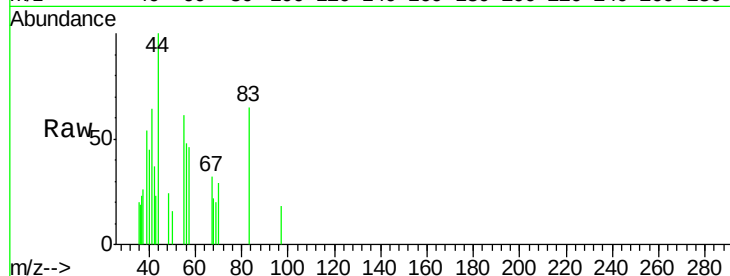




#39
Methylcyclohexane
Concen: 0.35 ug/l
RT: 7.46 min Scan# 1127
Delta R.T. -0.01 min
Lab File: VX002330.D
Acq: 06 Jun 2018 03:04

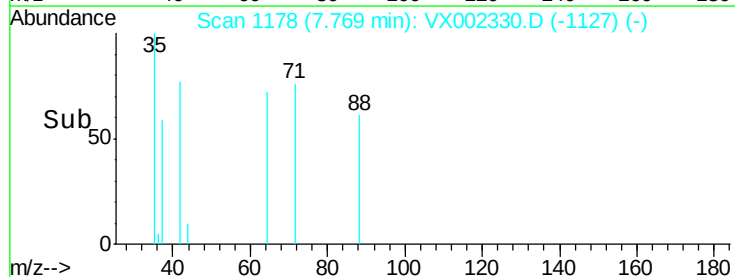
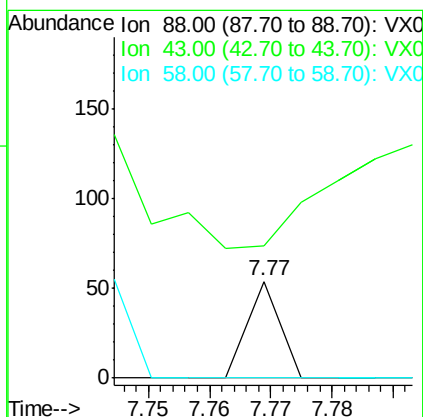
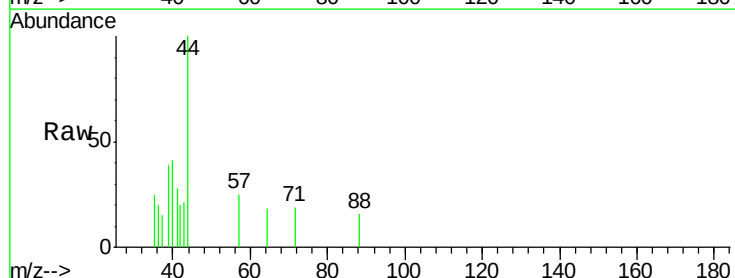
Instrument :
MSVOA_X
ClientSampled :

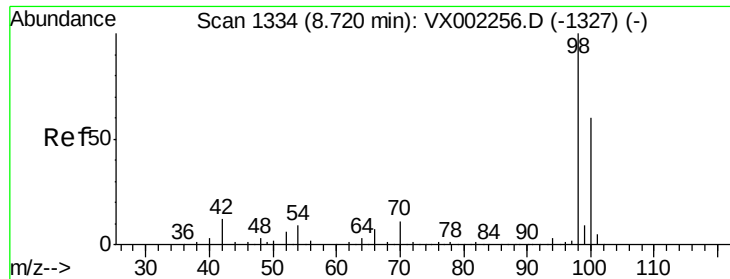
Tot Ion: 83 Resp: 388
Ion Ratio Lower Upper
83 100
55 42.5 65.4 98.0#
98 0.0 37.4 56.0#



#49
1,4-Dioxane
Concen: 0.29 ug/l
RT: 7.77 min Scan# 1178
Delta R.T. 0.01 min
Lab File: VX002330.D
Acq: 06 Jun 2018 03:04

Tgt Ion: 88 Resp: 20
Ion Ratio Lower Upper
88 100
43 0.0 29.8 44.6#
58 0.0 57.1 85.7#

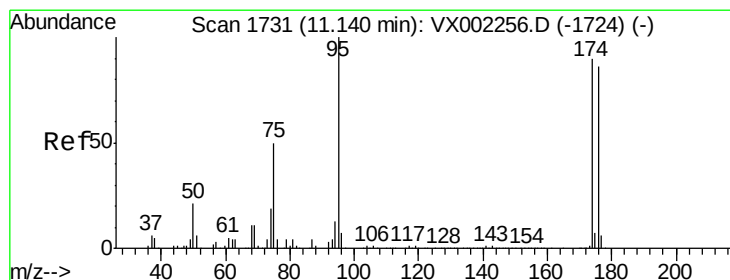
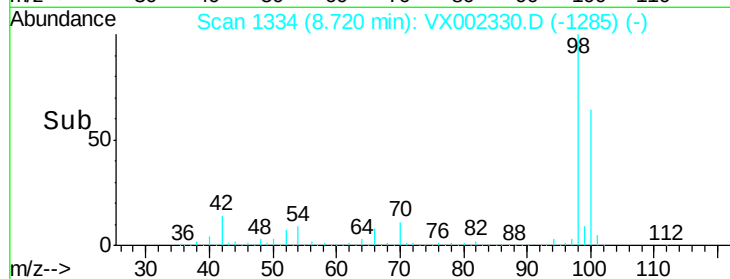
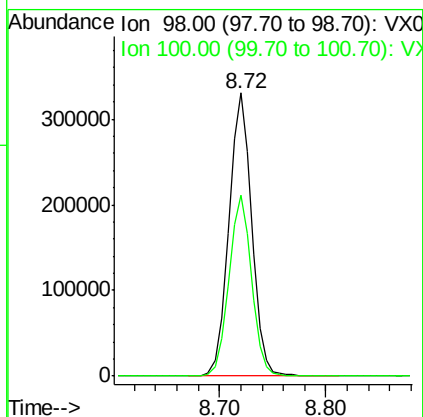
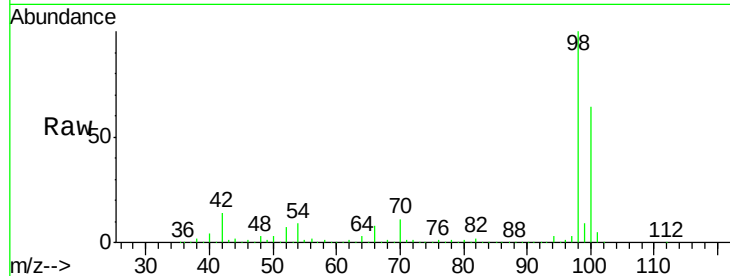




#50
Toluene-d8
Concen: 48.11 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX002330.D
Acq: 06 Jun 2018 03:04

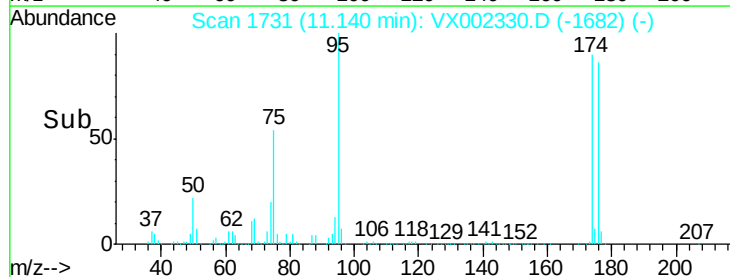
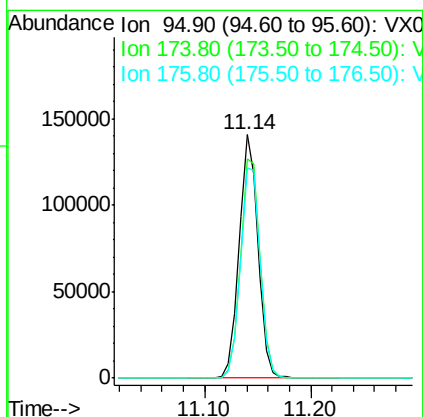
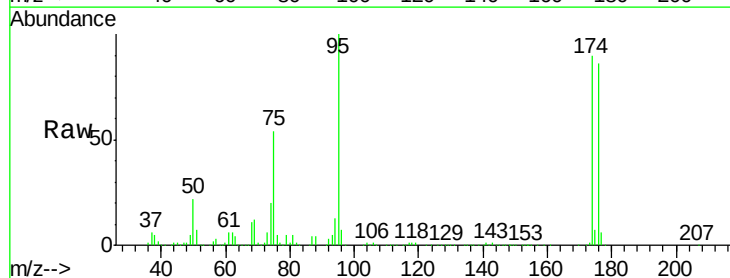
Instrument :
MSVOA_X
ClientSampleId :

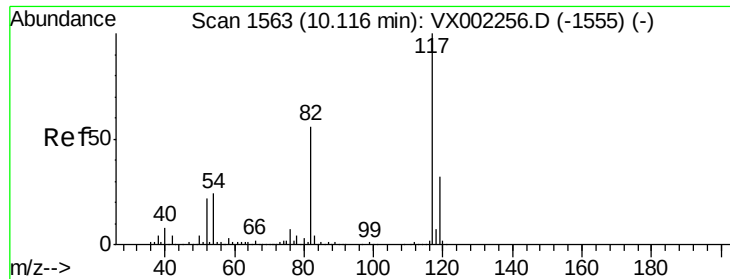
Tot Ion: 98 Resp: 497802
Ion Ratio Lower Upper
98 100
100 63.5 50.9 76.3



#62
4-Bromofluorobenzene
Concen: 43.93 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX002330.D
Acq: 06 Jun 2018 03:04

Tgt Ion: 95 Resp: 175283
Ion Ratio Lower Upper
95 100
174 94.0 0.0 187.4
176 90.8 0.0 181.0

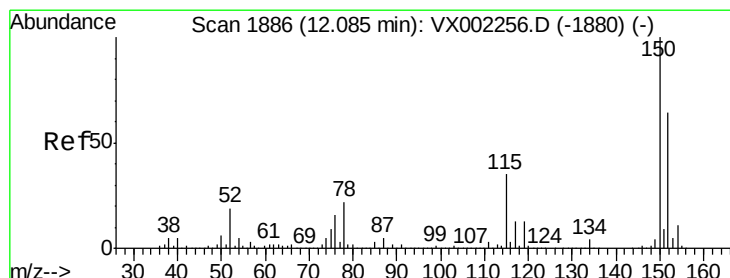
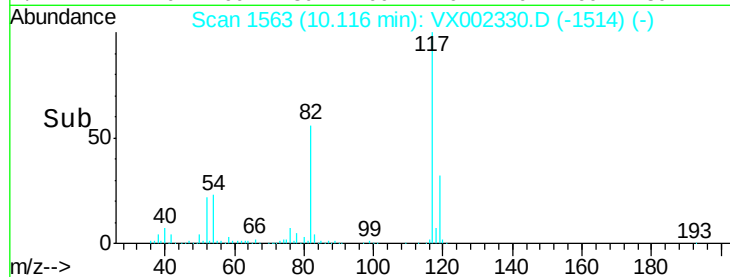
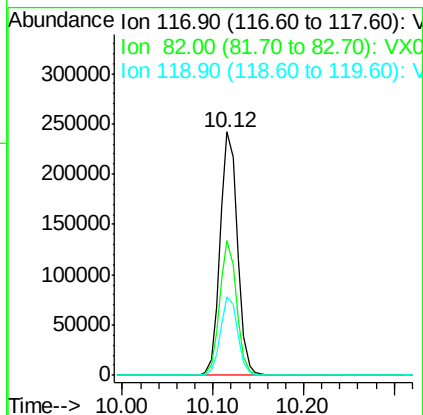
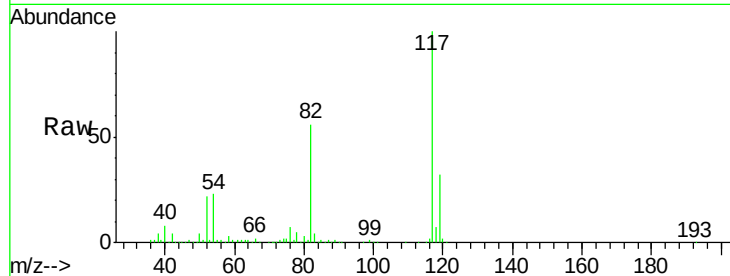




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002330.D
Acq: 06 Jun 2018 03:04

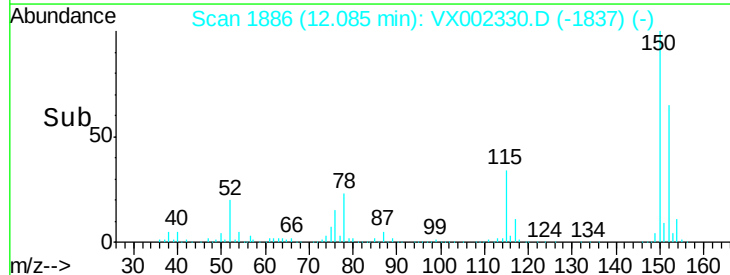
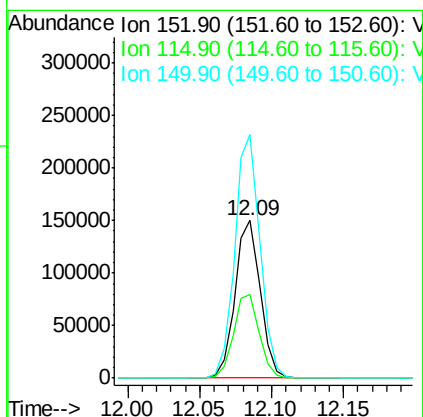
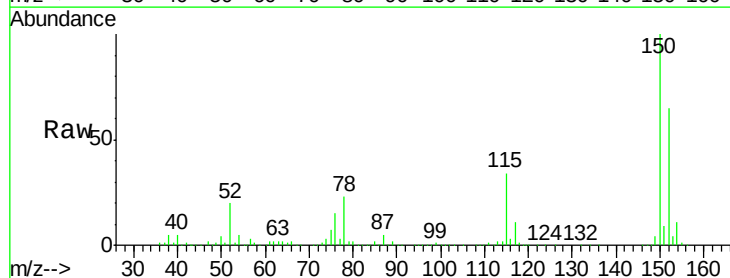
Instrument :
MSVOA_X
ClientSampleId :

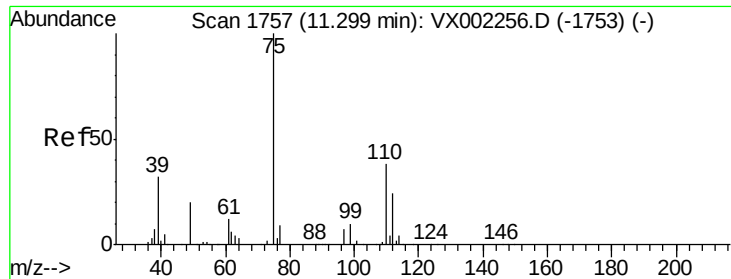
Tot Ion:117 Resp: 323595
Ion Ratio Lower Upper
117 100
82 55.6 45.0 67.4
119 32.3 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX002330.D
Acq: 06 Jun 2018 03:04

Tgt Ion:152 Resp: 183290
Ion Ratio Lower Upper
152 100
115 54.7 40.1 120.2
150 155.1 0.0 347.2

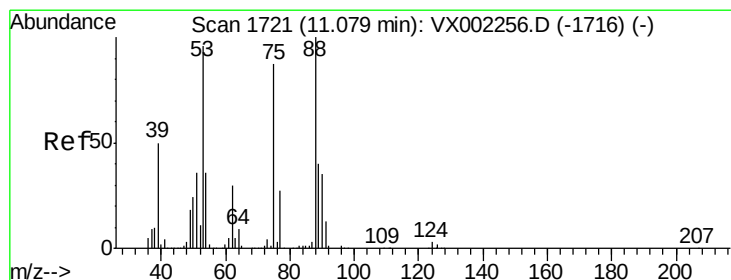
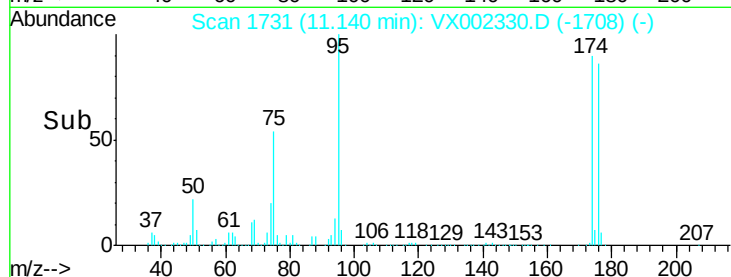
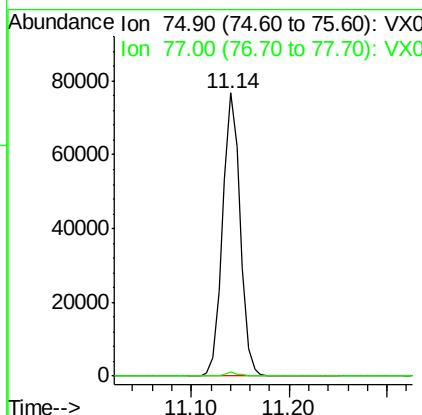
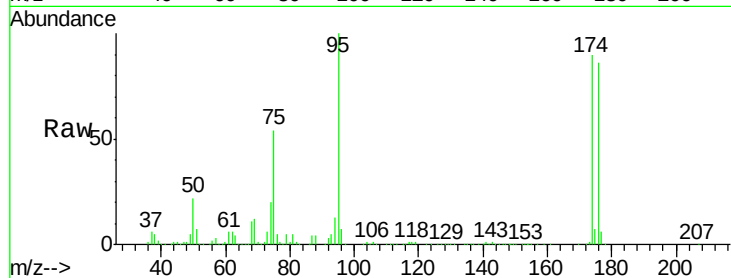




#76
 1,2,3-Trichloropropane
 Concen: 23.81 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX002330.D
 Acq: 06 Jun 2018 03:04

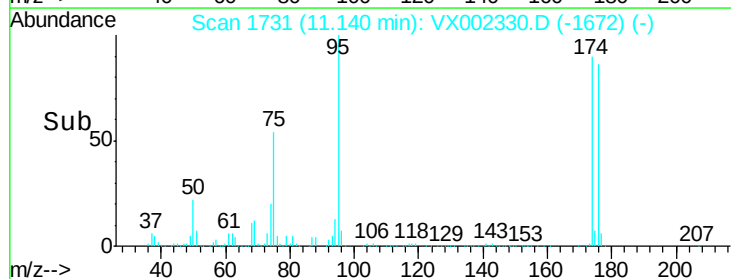
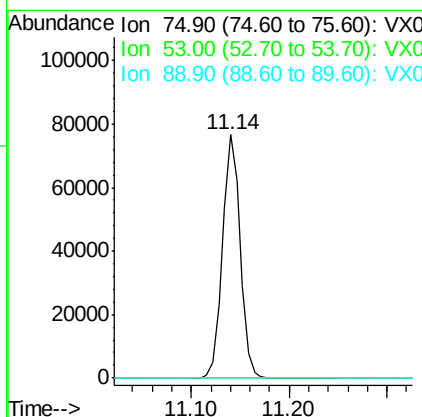
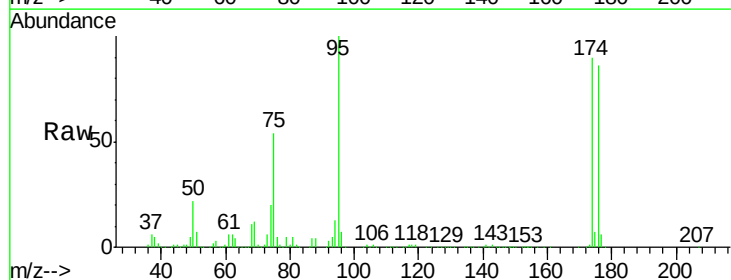
Instrument :
 MSVOA_X
 ClientSampleId :

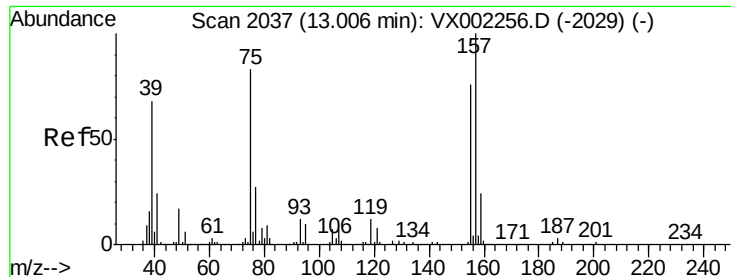
Tot Ion: 75 Resp: 95756
 Ion Ratio Lower Upper
 75 100
 77 1.2 22.8 68.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 83.46 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002330.D
 Acq: 06 Jun 2018 03:04

Tgt Ion: 75 Resp: 95756
 Ion Ratio Lower Upper
 75 100
 53 0.1 86.8 130.2#
 89 0.0 38.2 57.2#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.20 ug/l

RT: 13.10 min Scan# 2052

Delta R.T. 0.09 min

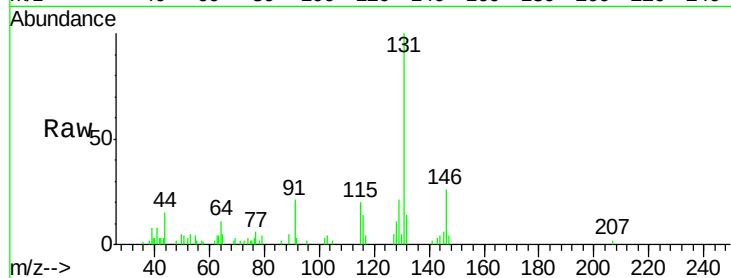
Lab File: VX002330.D

Acq: 06 Jun 2018 03:04

Instrument :

MSVOA_X

ClientSampleId :



Tot Ion:	75	Resp:	178
Ion	Ratio	Lower	Upper
75	100		
155	0.0	45.8	137.4#
157	0.0	60.1	180.3#

