

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061418\
 Data File : VX002562.D
 Acq On : 14 Jun 2018 19:52
 Operator : JC/MD
 Sample : PB110227ZHE#06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 15 01:35:35 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	239994	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	349354	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	324882	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	189989	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	165903	48.22	ug/l	0.00
Spiked Amount			Recovery	=	96.44%	
35) Dibromofluoromethane	5.51	113	124742	45.40	ug/l	0.00
Spiked Amount			Recovery	=	90.80%	
50) Toluene-d8	8.72	98	499020	47.39	ug/l	0.00
Spiked Amount			Recovery	=	94.78%	
62) 4-Bromofluorobenzene	11.14	95	179262	44.15	ug/l	0.00
Spiked Amount			Recovery	=	88.30%	

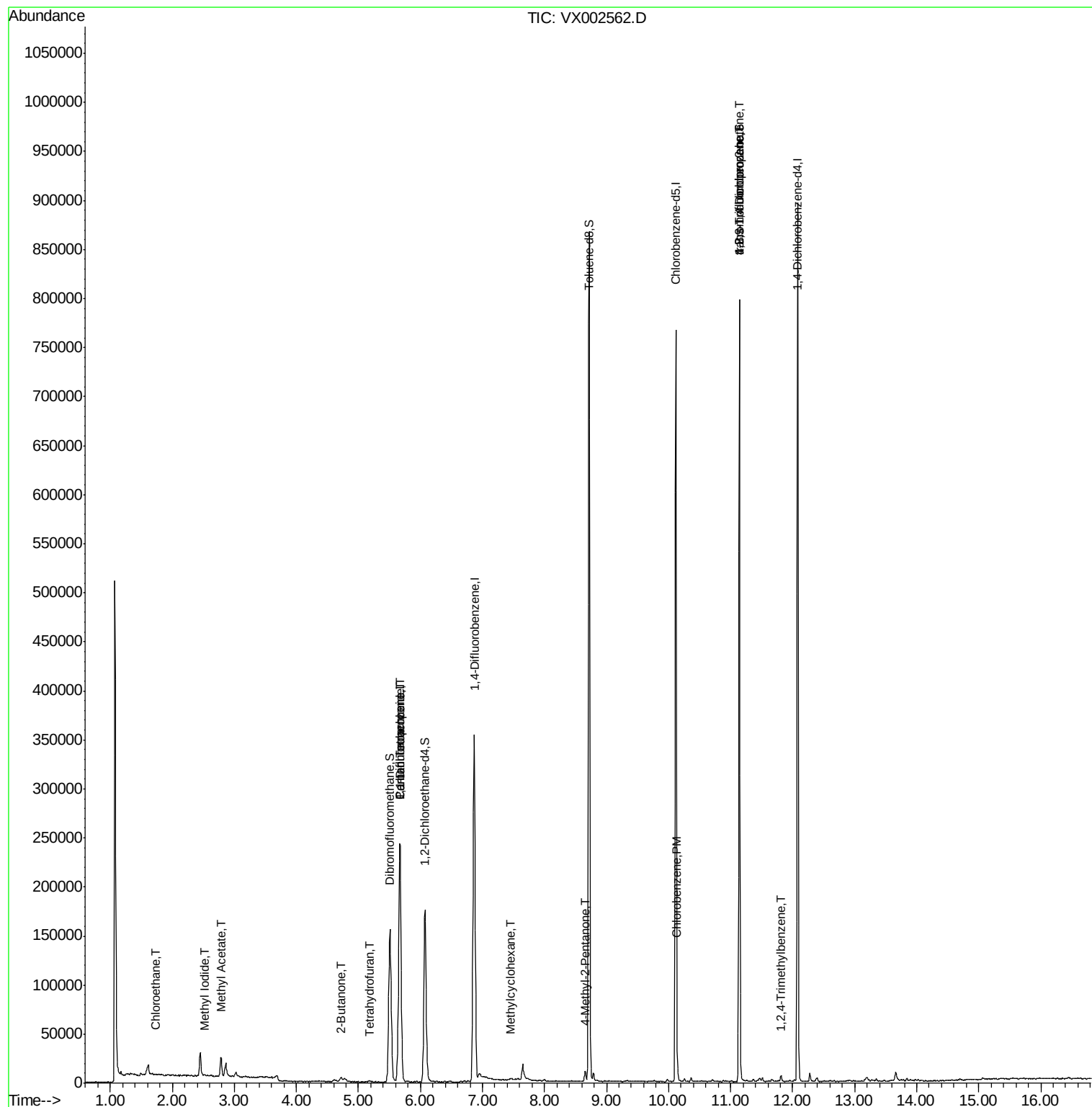
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	593	Below Cal		95
5) Bromomethane	1.65	94	1487	Below Cal		98
6) Chloroethane	1.73	64	2212	1.09 ug/l	#	68
8) Diethyl Ether	2.11	74	123	Below Cal		85
10) Methyl Iodide	2.52	142	1182	0.33 ug/l	#	85
11) Tert butyl alcohol	3.02	59	2643	Below Cal	#	75
13) Acrolein	2.29	56	520	Below Cal	#	63
15) Acrylonitrile	3.15	53	289	Below Cal	#	78
16) Acetone	2.45	43	26293	Below Cal		99
18) Methyl Acetate	2.78	43	23547	4.39 ug/l		96
19) Methyl tert-butyl Ether	3.20	73	93	Below Cal	#	71
20) Methylene Chloride	2.86	84	6437	Below Cal		89
22) Diisopropyl ether	3.87	45	180	Below Cal	#	42
25) 2-Butanone	4.72	43	8754	3.72 ug/l		99
28) Bromochloromethane	5.03	49	75	Below Cal	#	44
29) Tetrahydrofuran	5.18	42	1634	1.08 ug/l	#	70
36) 1,1-Dichloropropene	5.67	75	17041	4.64 ug/l	#	51
38) Carbon Tetrachloride	5.66	117	22825	5.94 ug/l	#	16
39) Methylcyclohexane	7.46	83	554	0.38 ug/l	#	67
51) 4-Methyl-2-Pentanone	8.65	43	6407	1.37 ug/l		99
65) Chlorobenzene	10.14	112	3195	0.40 ug/l		98
76) 1,2,3-Trichloropropane	11.14	75	97364	23.36 ug/l	#	33
81) trans-1,4-Dichloro-2-buten	11.14	75	97364	81.87 ug/l	#	6
84) 1,2,4-Trimethylbenzene	11.81	105	2385	0.20 ug/l		92

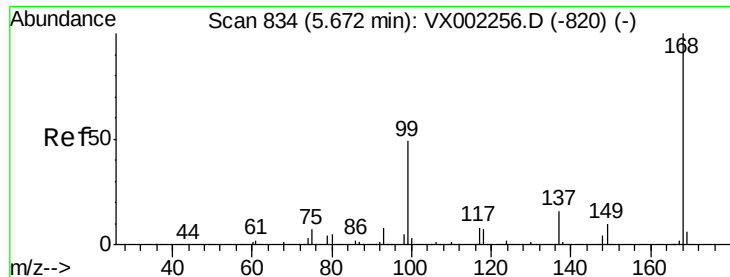
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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ClientSampleId :

Quant Time: Jun 15 01:35:35 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X060418W.M
Quant Title : SW846 8260
QLast Update : Tue Jun 05 03:22:35 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX002562.D

Acq: 14 Jun 2018 19:52

Instrument :

MSVOA_X

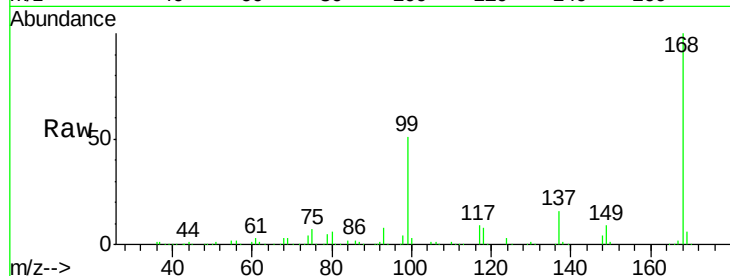
ClientSampleId :

Tot Ion:168 Resp: 239994

Ion Ratio Lower Upper

168 100

99 50.4 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

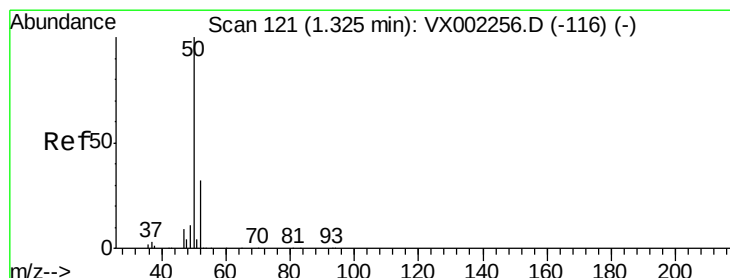
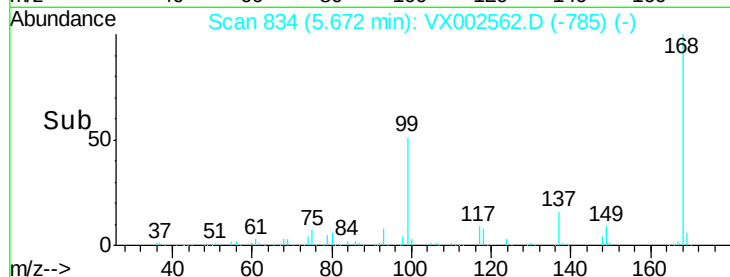
40000

20000

0

Time-->

5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002562.D

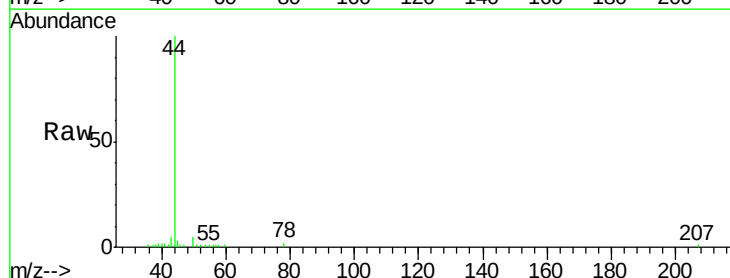
Acq: 14 Jun 2018 19:52

Tgt Ion: 50 Resp: 593

Ion Ratio Lower Upper

50 100

52 29.2 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

400

300

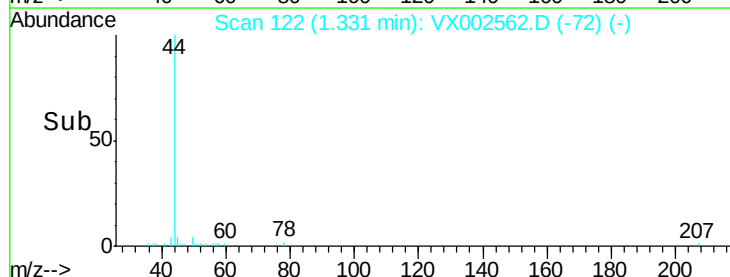
200

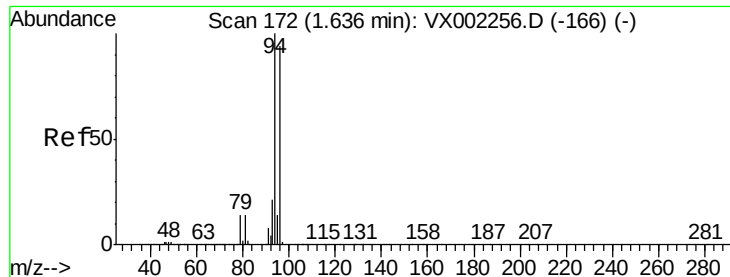
100

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002562.D

Acq: 14 Jun 2018 19:52

Instrument :

MSVOA_X

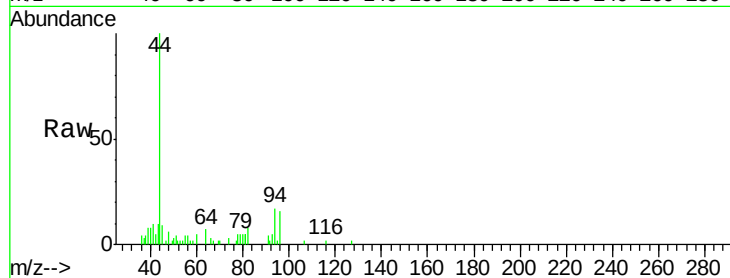
ClientSampleId :

Tot Ion: 94 Resp: 1487

Ion Ratio Lower Upper

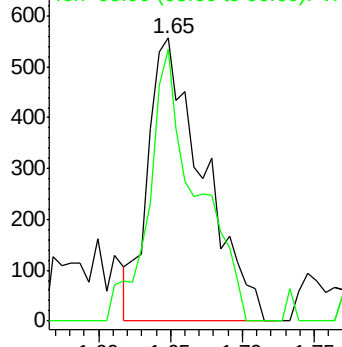
94 100

96 95.9 74.9 112.3

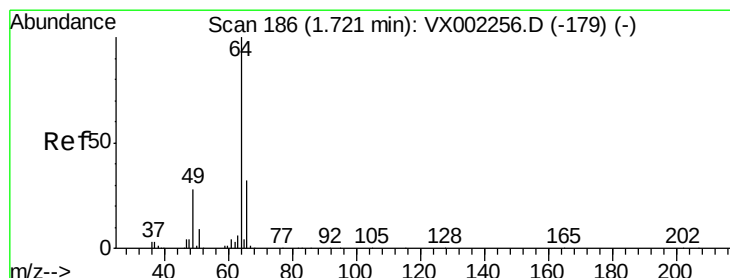
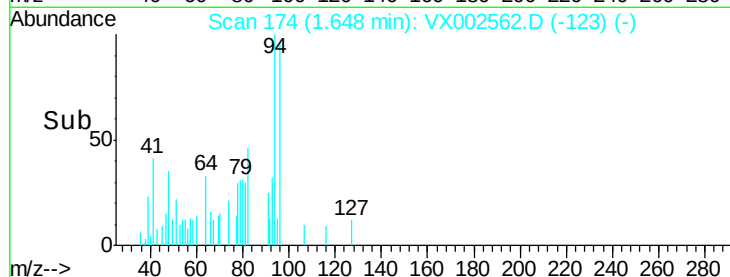


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#6

Chloroethane

Concen: 1.09 ug/l

RT: 1.73 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX002562.D

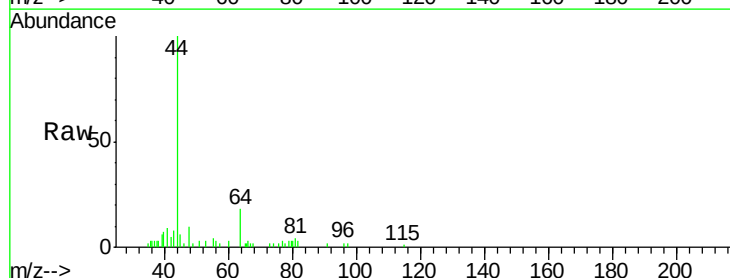
Acq: 14 Jun 2018 19:52

Tgt Ion: 64 Resp: 2212

Ion Ratio Lower Upper

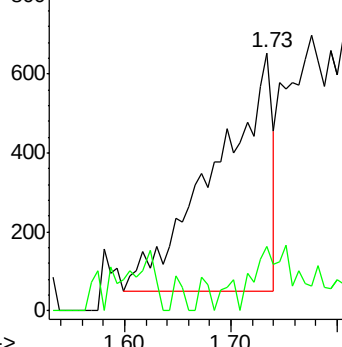
64 100

66 14.1 25.5 38.3#

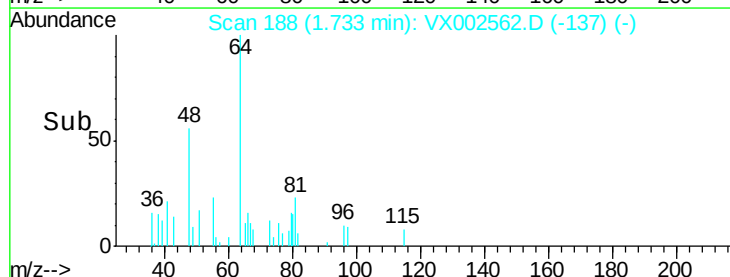


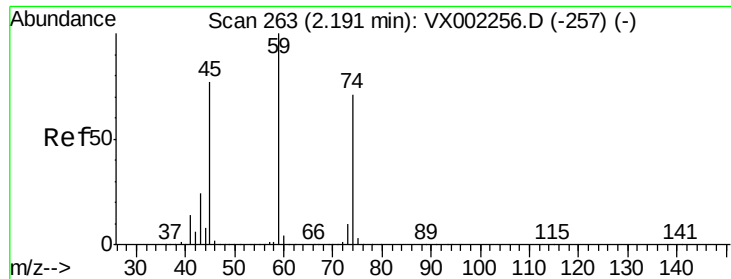
Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



Time-->





#8

Diethyl Ether

Concen: Below Cal

RT: 2.11 min Scan# 249

Delta R.T. -0.08 min

Lab File: VX002562.D

Acq: 14 Jun 2018 19:52

Instrument :

MSVOA_X

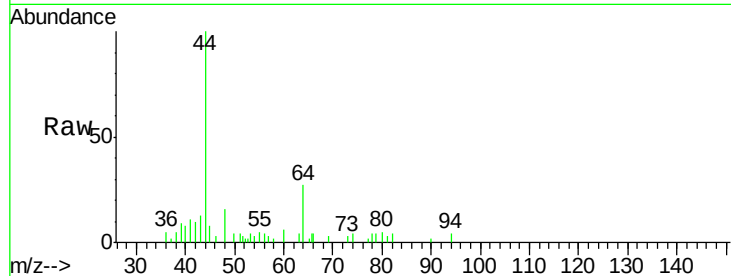
ClientSampleId :

Tot Ion: 74 Resp: 123

Ion Ratio Lower Upper

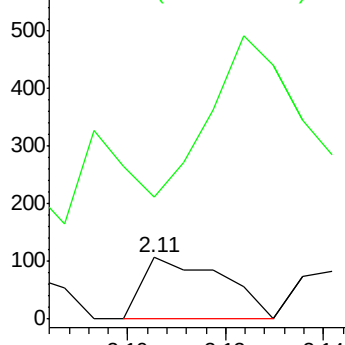
74 100

45 91.1 53.1 159.4

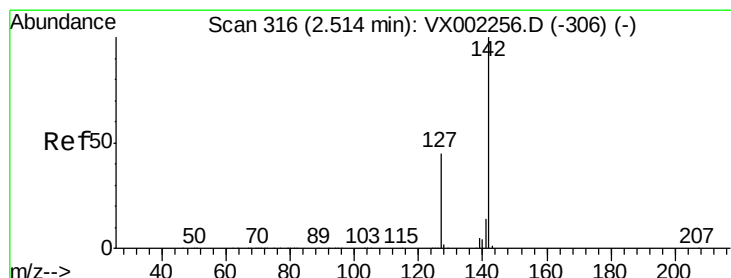
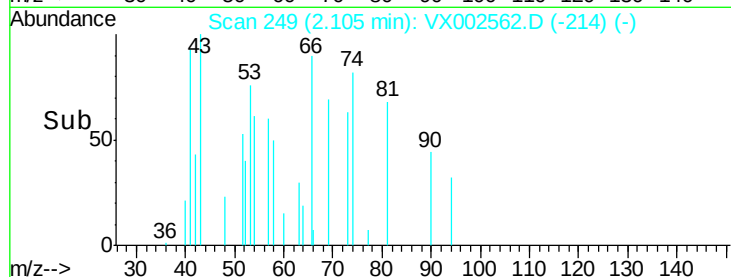


Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



Time-->



#10

Methyl Iodide

Concen: 0.33 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002562.D

Acq: 14 Jun 2018 19:52

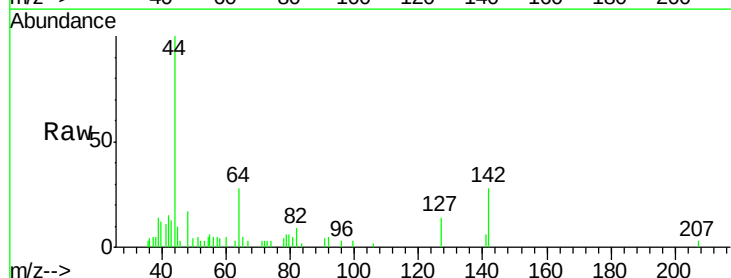
Tgt Ion: 142 Resp: 1182

Ion Ratio Lower Upper

142 100

127 54.5 36.6 55.0

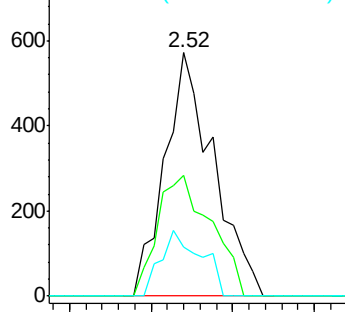
141 22.3 11.3 16.9#



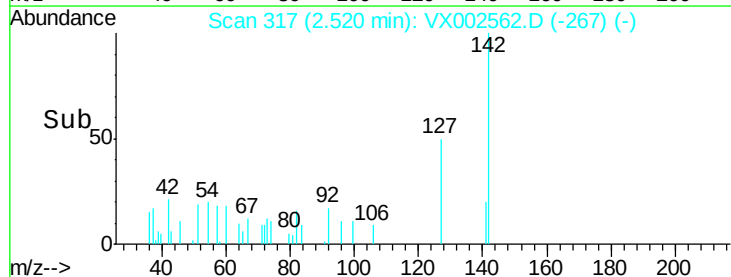
Abundance Ion 141.80 (141.50 to 142.50): V

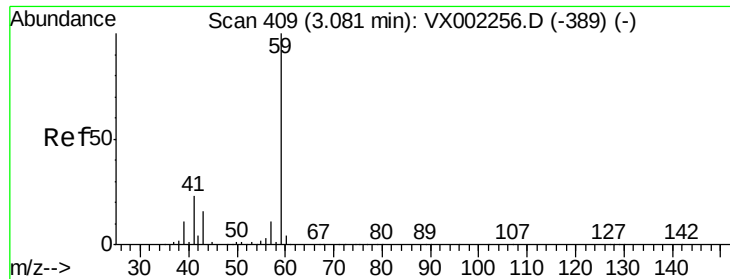
Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time-->

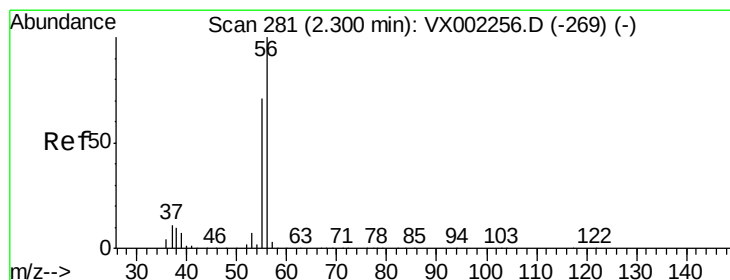
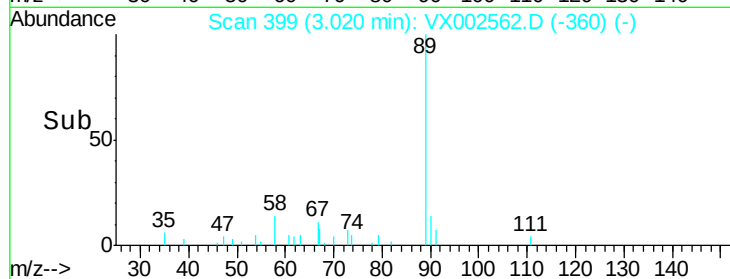
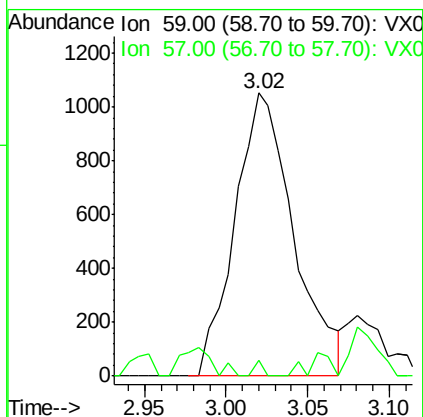
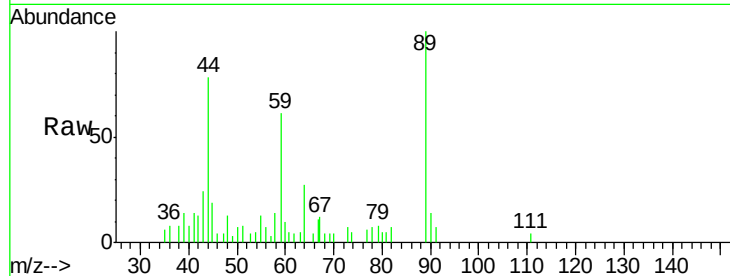




#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.02 min Scan# 399
Delta R.T. -0.06 min
Lab File: VX002562.D
Acq: 14 Jun 2018 19:52

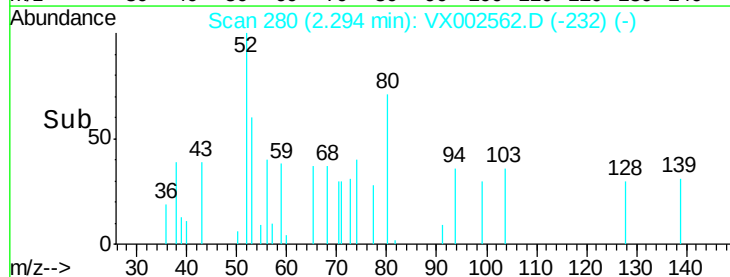
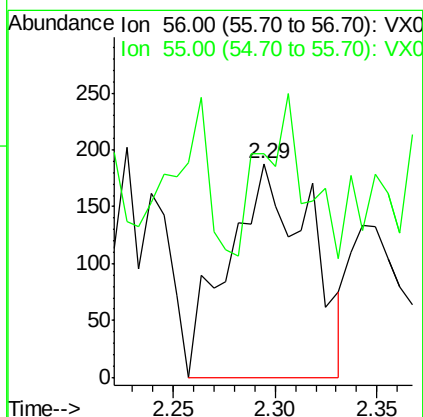
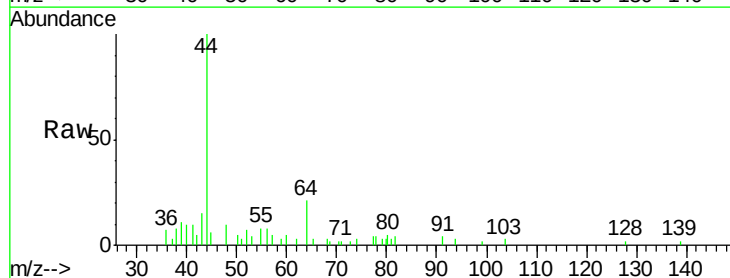
Instrument :
MSVOA_X
ClientSampleId :

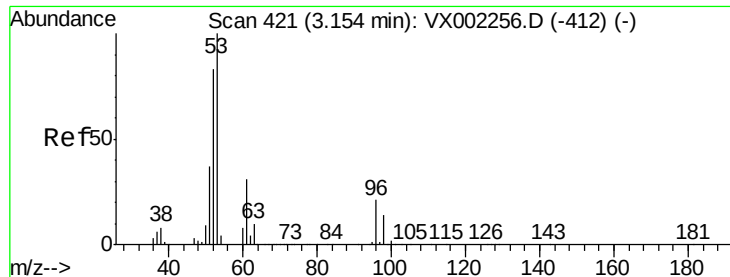
Tot Ion: 59 Resp: 2643
Ion Ratio Lower Upper
59 100
57 0.8 8.2 12.2#



#13
Acrolein
Concen: Below Cal
RT: 2.29 min Scan# 280
Delta R.T. -0.01 min
Lab File: VX002562.D
Acq: 14 Jun 2018 19:52

Tgt Ion: 56 Resp: 520
Ion Ratio Lower Upper
56 100
55 40.4 57.0 85.4#





#15

Acrylonitrile

Concen: Below Cal

RT: 3.15 min Scan# 421

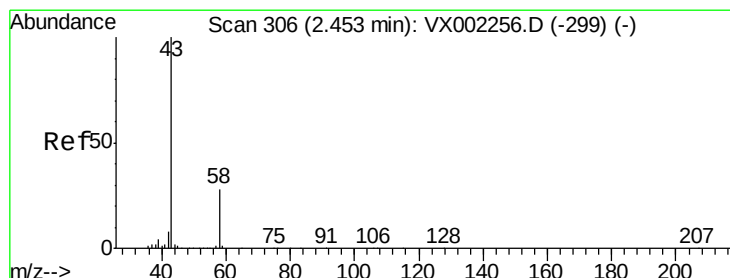
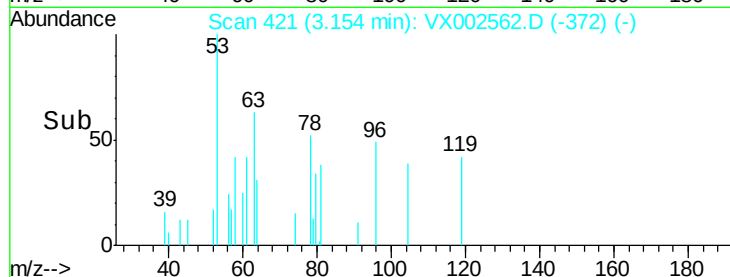
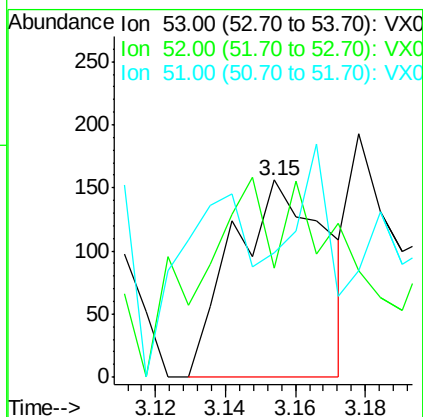
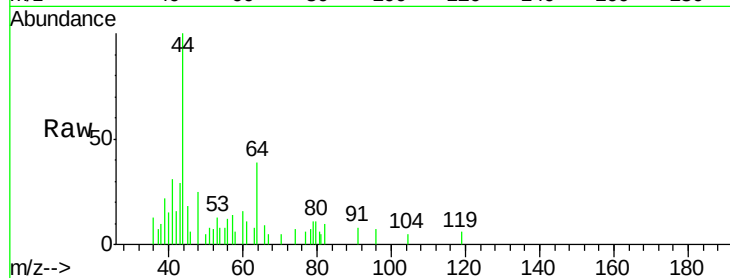
Delta R.T. 0.00 min

Lab File: VX002562.D

Acq: 14 Jun 2018 19:52

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	53	Resp:	289
Ion	Ratio	Lower	Upper
53	100		
52	77.9	66.7	100.1
51	70.9	29.9	44.9#



#16

Acetone

Concen: Below Cal

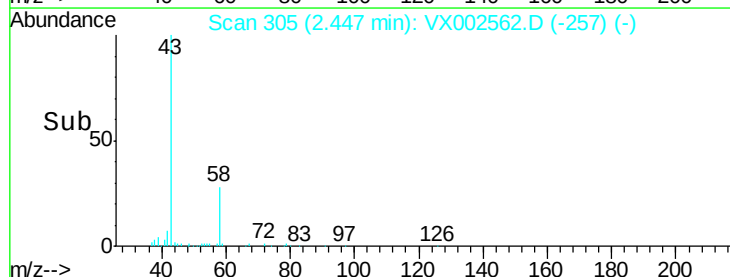
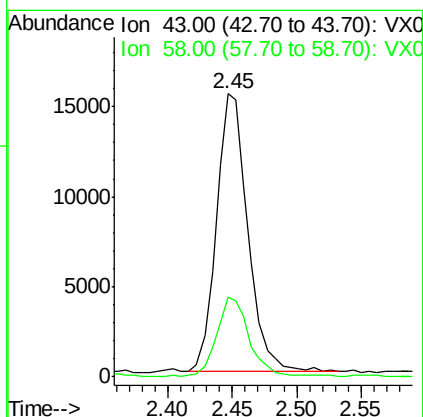
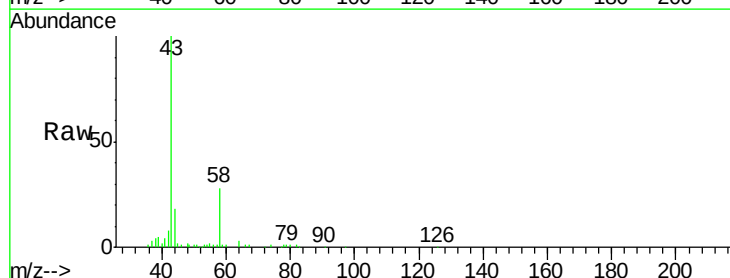
RT: 2.45 min Scan# 305

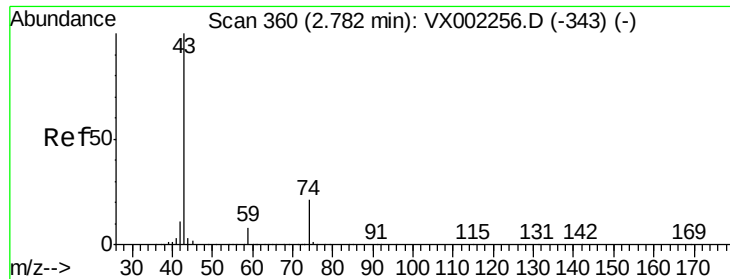
Delta R.T. -0.01 min

Lab File: VX002562.D

Acq: 14 Jun 2018 19:52

Tgt Ion:	43	Resp:	26293
Ion	Ratio	Lower	Upper
43	100		
58	28.2	22.1	33.1

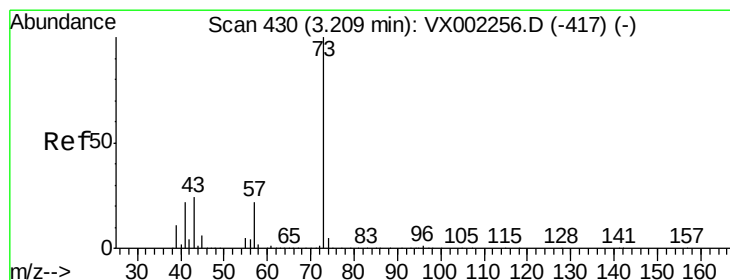
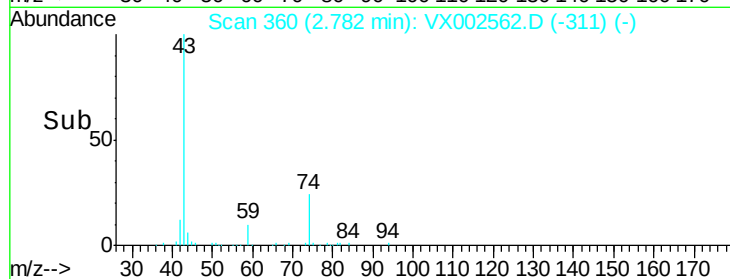
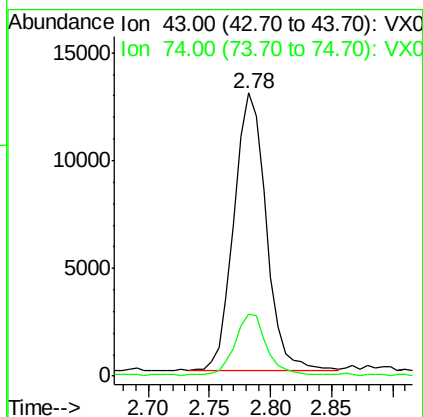
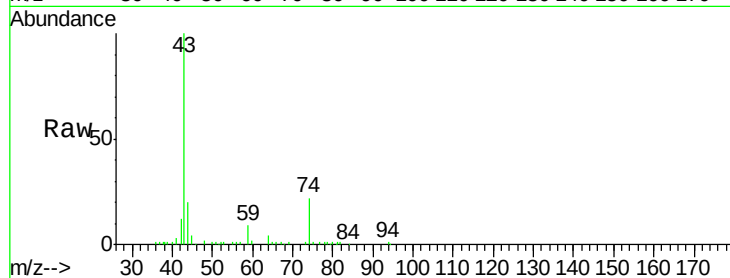




#18
Methyl Acetate
Concen: 4.39 ug/l
RT: 2.78 min Scan# 360
Delta R.T. 0.00 min
Lab File: VX002562.D
Acq: 14 Jun 2018 19:52

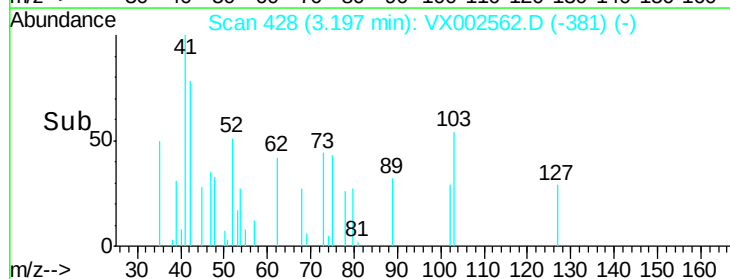
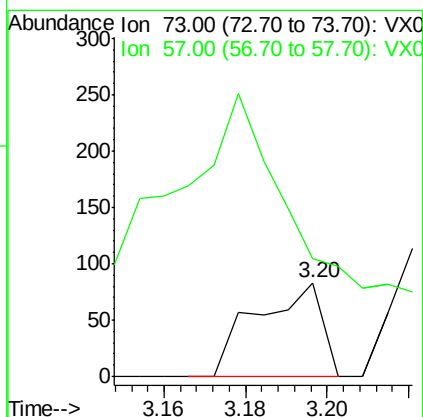
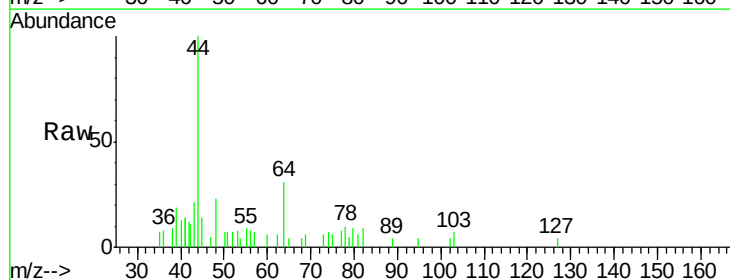
Instrument :
MSVOA_X
ClientSampleId :

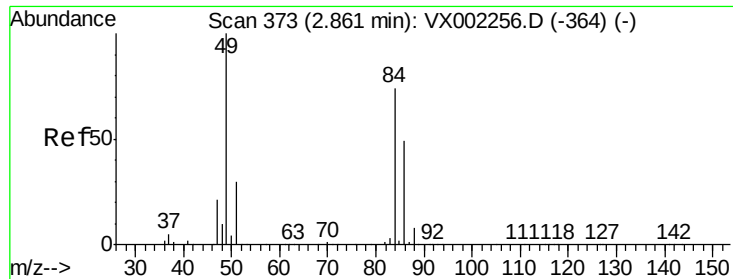
Tot Ion: 43 Resp: 23547
Ion Ratio Lower Upper
43 100
74 22.9 16.7 25.1



#19
Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.20 min Scan# 428
Delta R.T. -0.01 min
Lab File: VX002562.D
Acq: 14 Jun 2018 19:52

Tgt Ion: 73 Resp: 93
Ion Ratio Lower Upper
73 100
57 8.4 17.7 26.5#

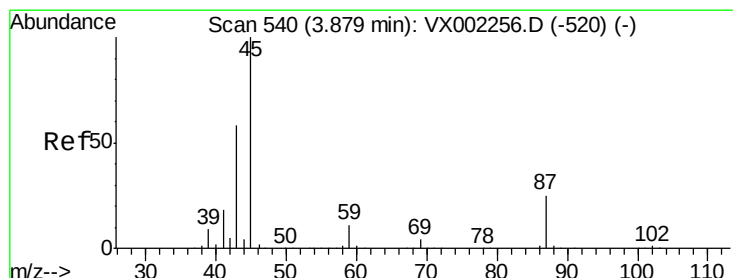
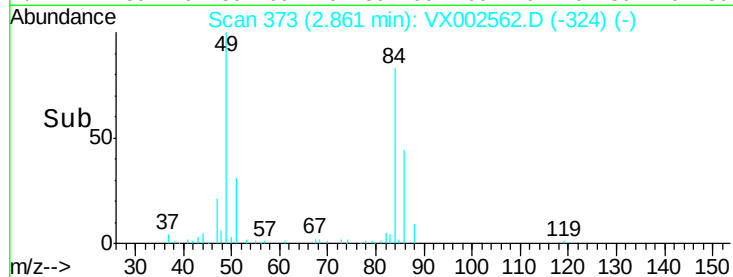
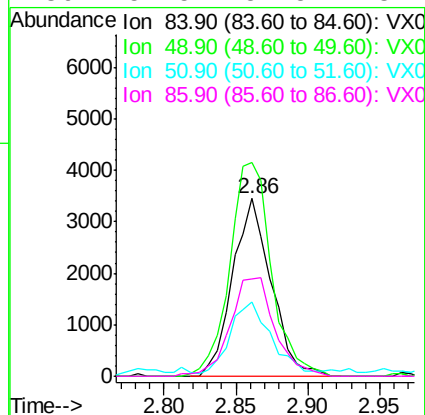
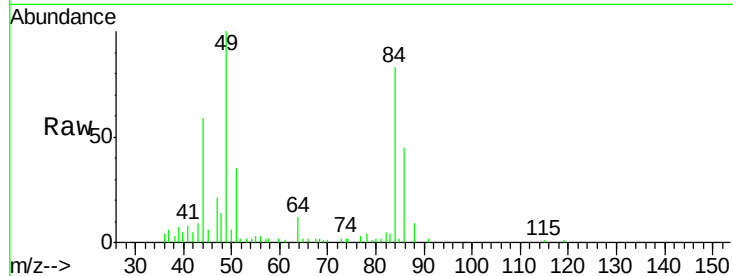




#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002562.D
Acq: 14 Jun 2018 19:52

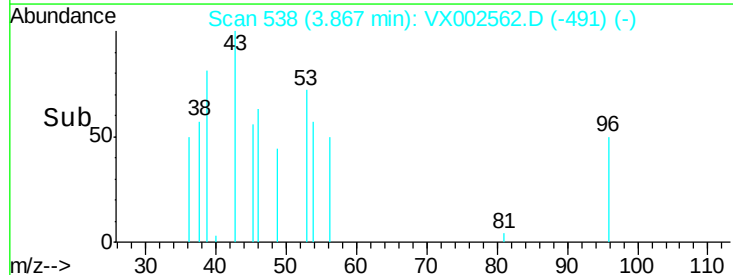
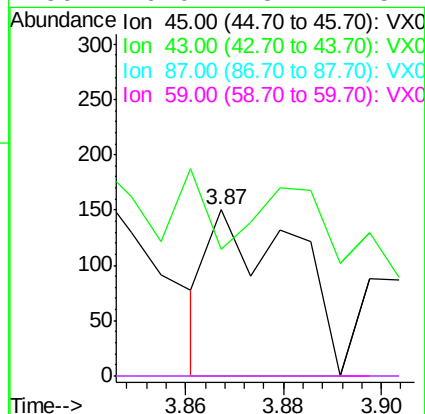
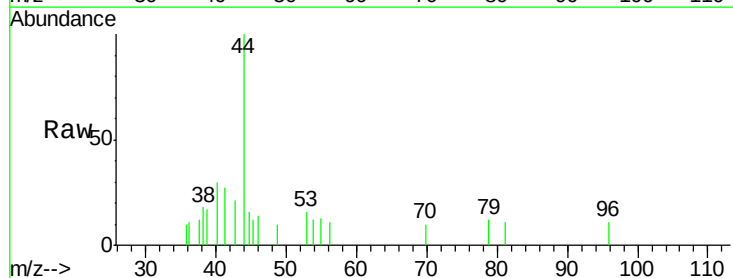
Instrument :
MSVOA_X
ClientSampleId :

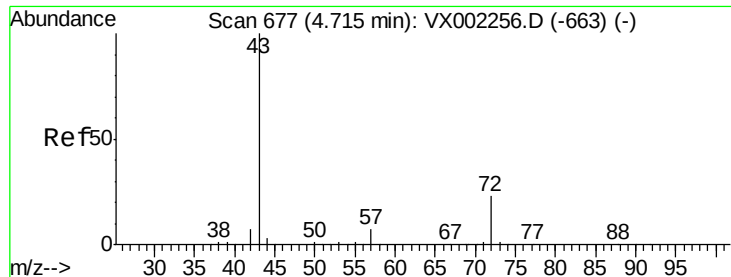
Tot Ion:	84	Resp:	6437
Ion	Ratio	Lower	Upper
84	100		
49	120.1	107.8	161.6
51	39.1	32.8	49.2
86	54.5	52.5	78.7



#22
Diisopropyl ether
Concen: Below Cal
RT: 3.87 min Scan# 538
Delta R.T. -0.01 min
Lab File: VX002562.D
Acq: 14 Jun 2018 19:52

Tgt Ion:	45	Resp:	180
Ion	Ratio	Lower	Upper
45	100		
43	8.7	46.8	70.2#
87	0.0	20.2	30.4#
59	0.0	8.7	13.1#





#25

2-Butanone

Concen: 3.72 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX002562.D

Acq: 14 Jun 2018 19:52

Instrument :

MSVOA_X

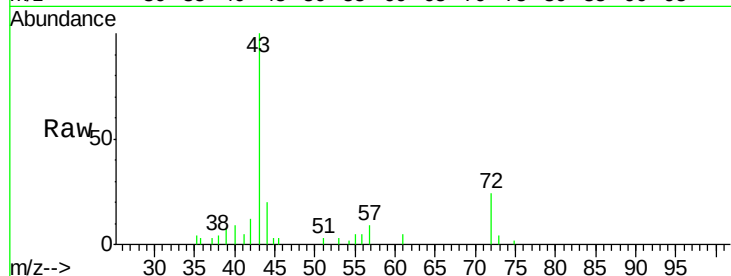
ClientSampled :

Tot Ion: 43 Resp: 8754

Ion Ratio Lower Upper

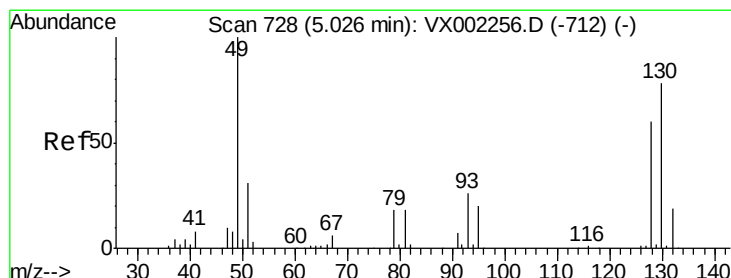
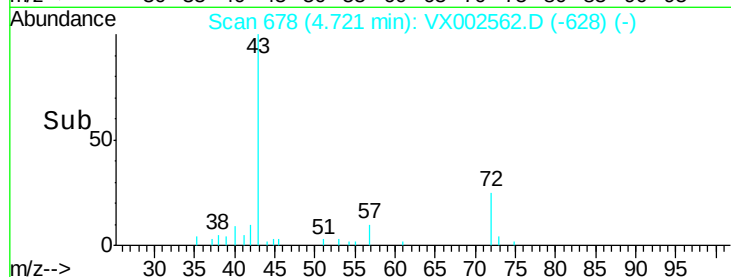
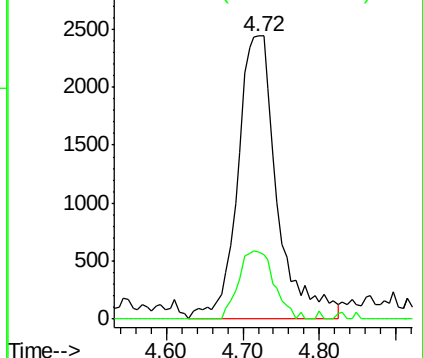
43 100

72 23.7 18.5 27.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 729

Delta R.T. 0.01 min

Lab File: VX002562.D

Acq: 14 Jun 2018 19:52

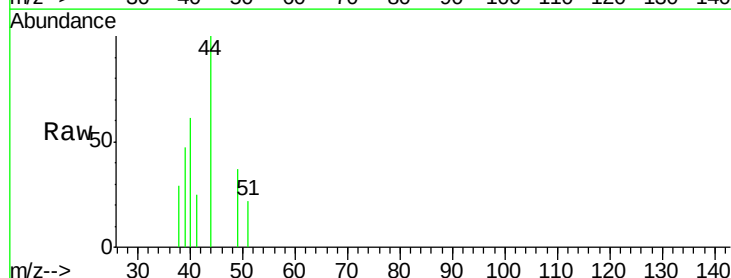
Tgt Ion: 49 Resp: 75

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

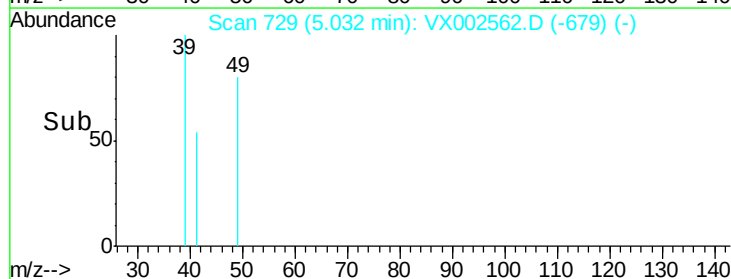
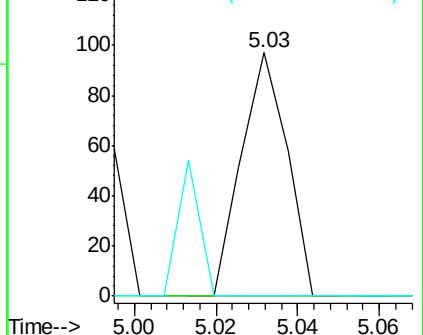
130 26.7 61.2 91.8#

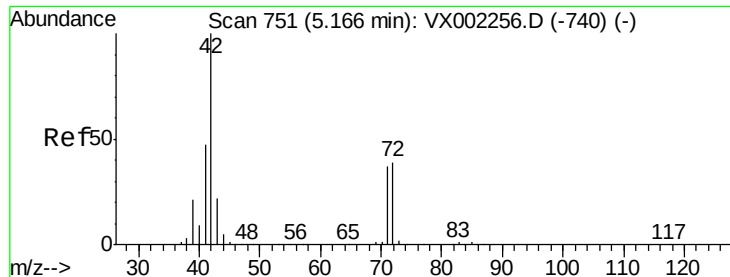


Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 1.08 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.01 min

Lab File: VX002562.D

Acq: 14 Jun 2018 19:52

Instrument :

MSVOA_X

ClientSampled :

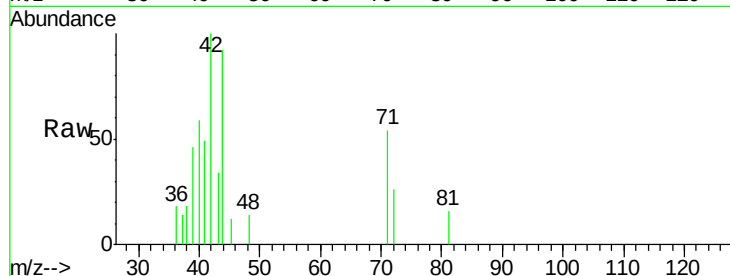
Tot Ion: 42 Resp: 1634

Ion Ratio Lower Upper

42 100

72 11.0 32.0 48.0#

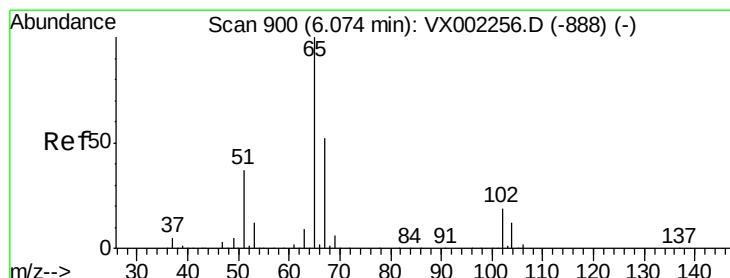
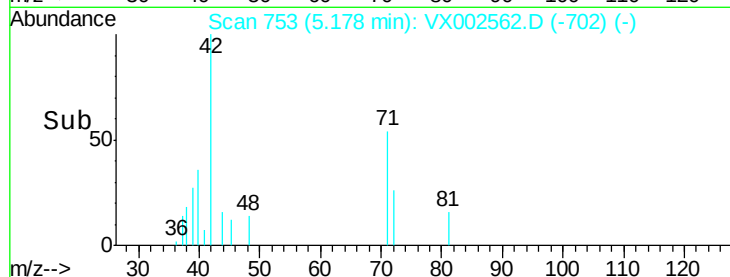
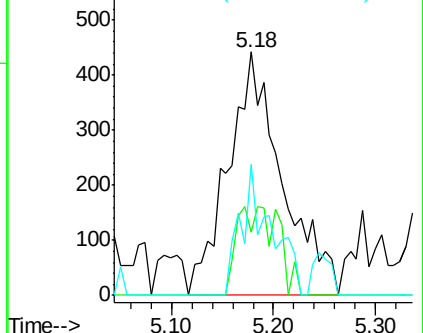
71 30.2 30.1 45.1



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: 48.22 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002562.D

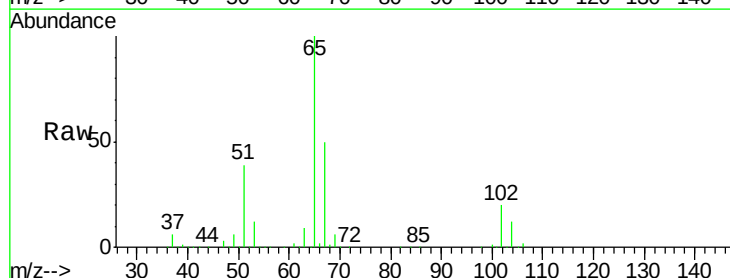
Acq: 14 Jun 2018 19:52

Tgt Ion: 65 Resp: 165903

Ion Ratio Lower Upper

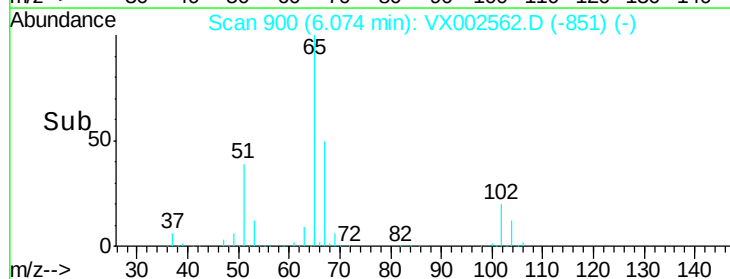
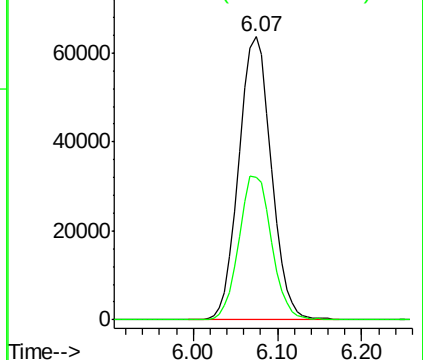
65 100

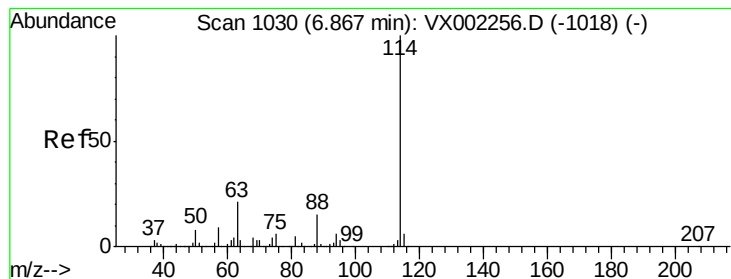
67 51.3 0.0 102.6



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: VX002562.D

Acq: 14 Jun 2018 19:52

Instrument :

MSVOA_X

ClientSampleId :

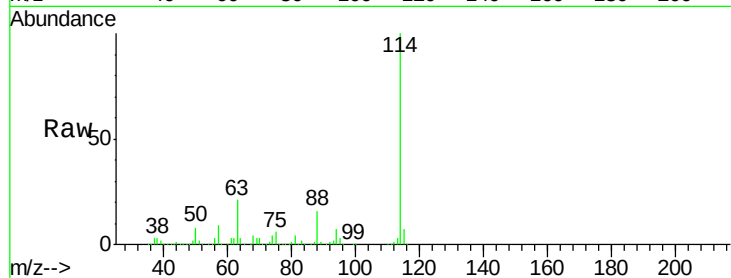
Tot Ion:114 Resp: 349354

Ion Ratio Lower Upper

114 100

63 21.2 0.0 41.4

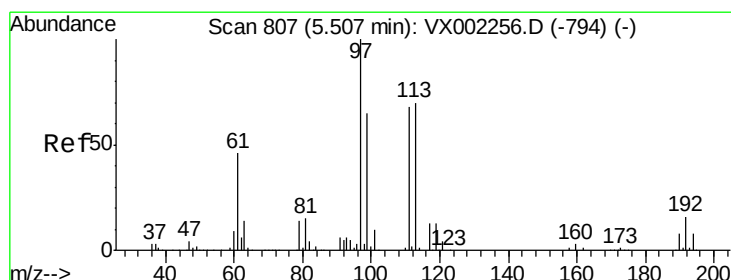
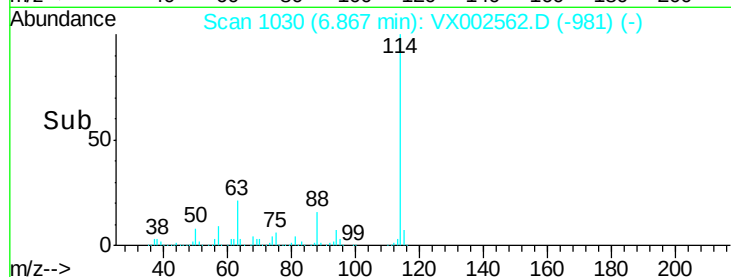
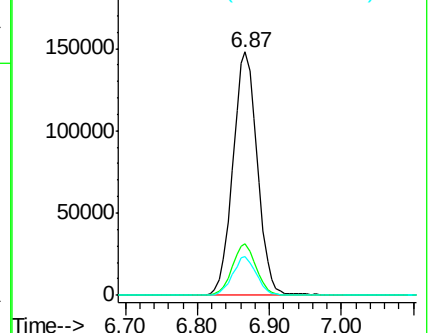
88 15.9 0.0 30.0



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: 45.40 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX002562.D

Acq: 14 Jun 2018 19:52

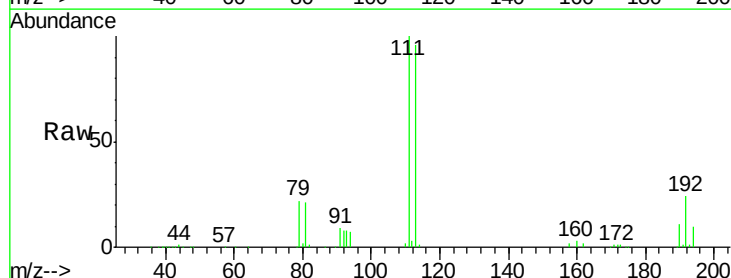
Tgt Ion:113 Resp: 124742

Ion Ratio Lower Upper

113 100

111 103.0 81.4 122.0

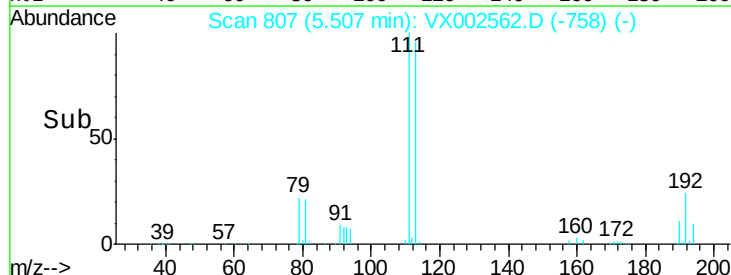
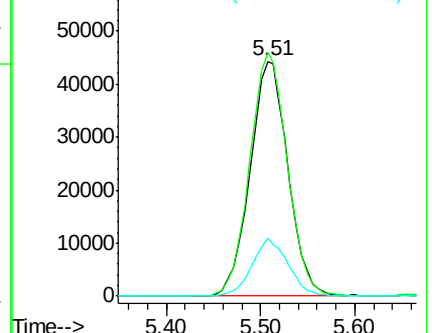
192 23.4 19.1 28.7

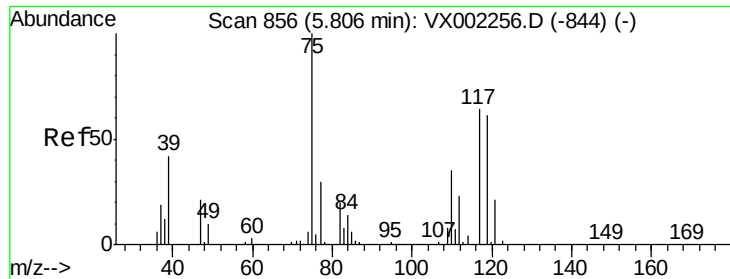


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

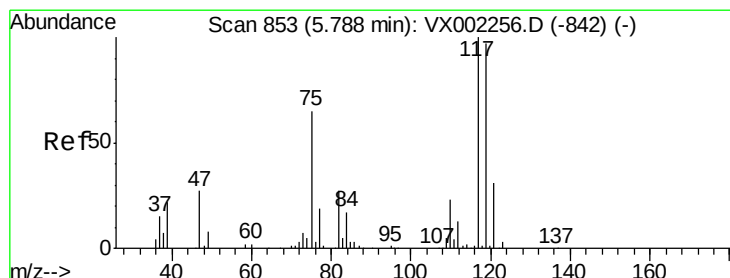
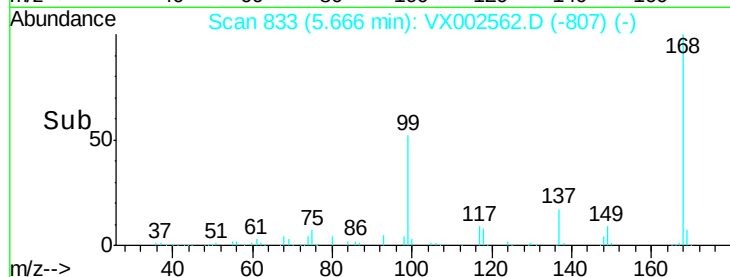
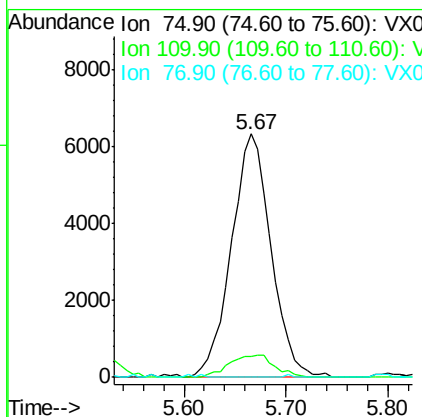
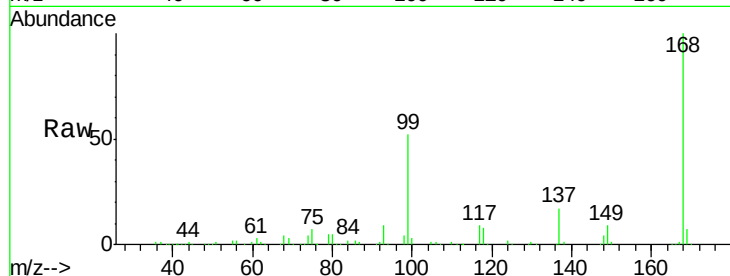




#36
 1,1-Dichloropropene
 Concen: 4.64 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.14 min
 Lab File: VX002562.D
 Acq: 14 Jun 2018 19:52

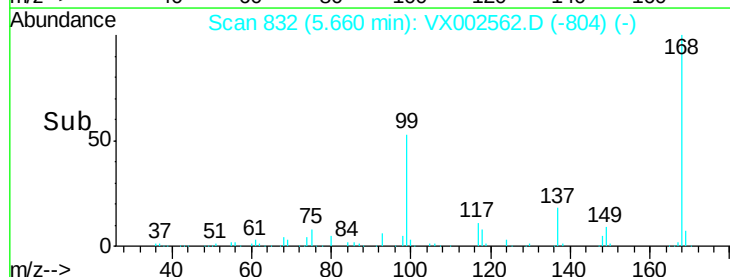
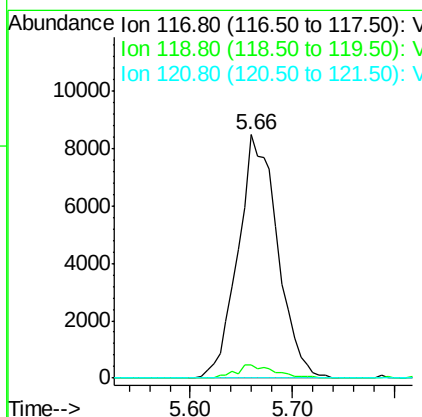
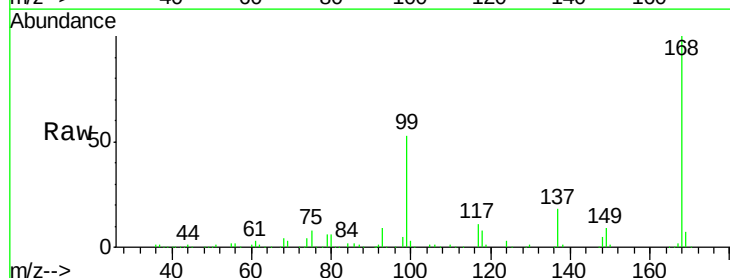
Instrument :
 MSVOA_X
 ClientSampled :

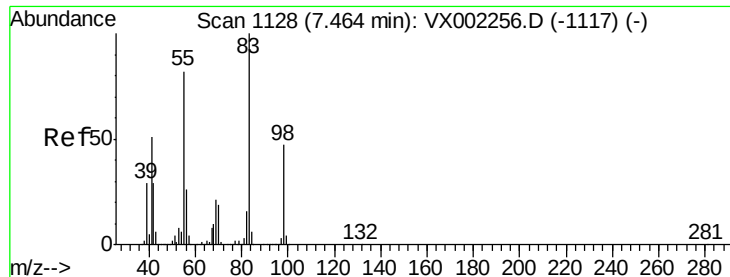
Tot Ion	75	Resp	17041
Ion Ratio	Lower	Upper	
75	100		
110	10.5	18.1	54.4#
77	0.0	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 5.94 ug/l
 RT: 5.66 min Scan# 832
 Delta R.T. -0.13 min
 Lab File: VX002562.D
 Acq: 14 Jun 2018 19:52

Tgt Ion	117	Resp	22825
Ion Ratio	Lower	Upper	
117	100		
119	5.5	77.4	116.0#
121	0.0	24.4	36.6#

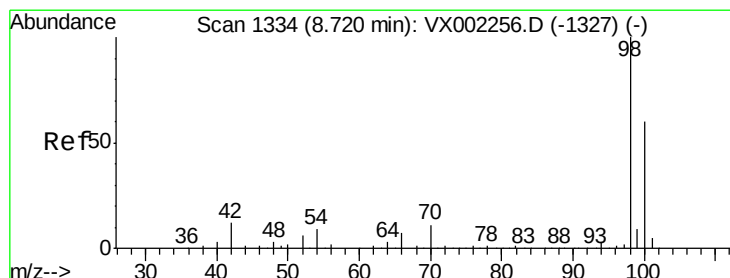
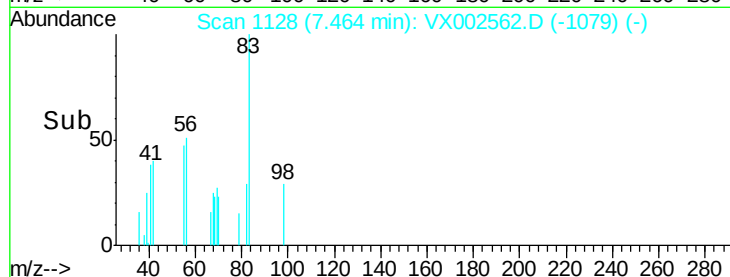
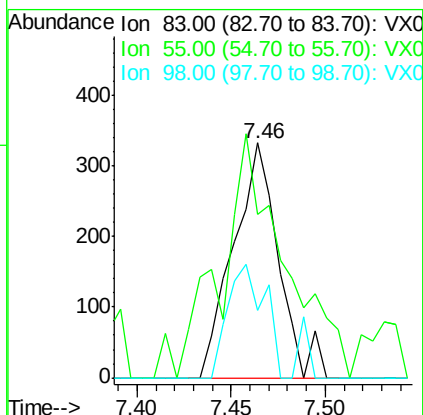
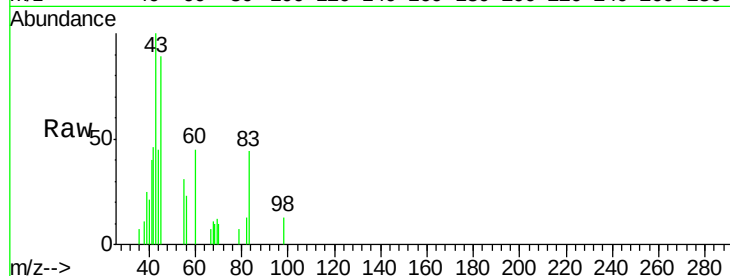




#39
Methylvlcyclohexane
Concen: 0.38 ug/l
RT: 7.46 min Scan# 1128
Delta R.T. 0.00 min
Lab File: VX002562.D
Acq: 14 Jun 2018 19:52

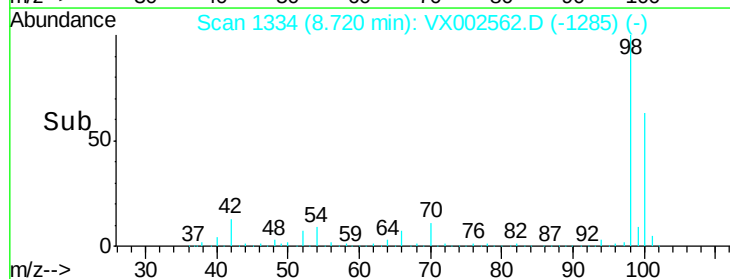
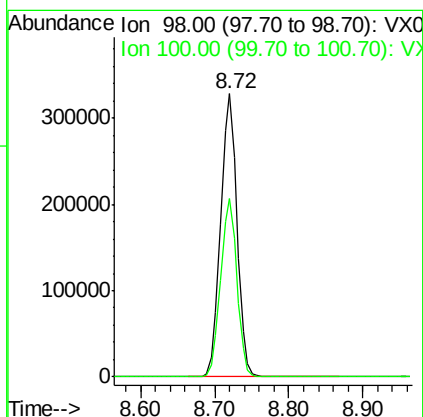
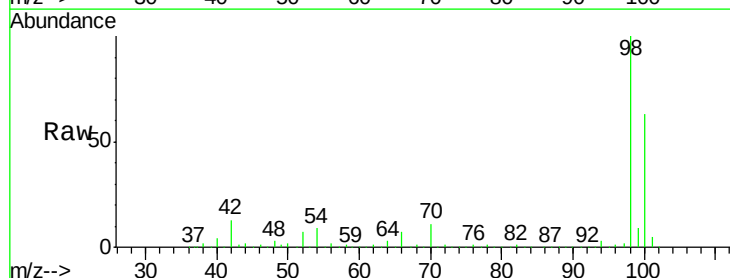
Instrument :
MSVOA_X
ClientSampleId :

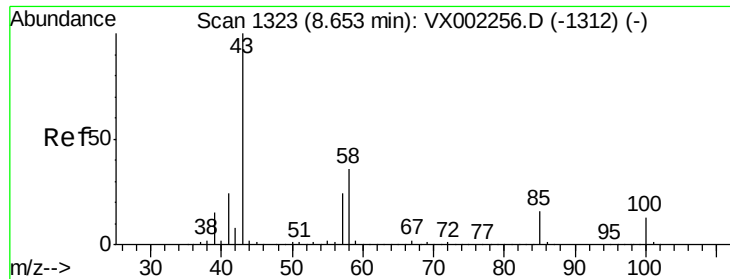
Tot Ion: 83 Resp: 554
Ion Ratio Lower Upper
83 100
55 49.2 65.4 98.0#
98 28.5 37.4 56.0#



#50
Toluene-d8
Concen: 47.39 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002562.D
Acq: 14 Jun 2018 19:52

Tgt Ion: 98 Resp: 499020
Ion Ratio Lower Upper
98 100
100 62.6 50.9 76.3





#51

4-Methyl-2-Pentanone

Concen: 1.37 ug/l

RT: 8.65 min Scan# 1323

Delta R.T. -0.00 min

Lab File: VX002562.D

Acq: 14 Jun 2018 19:52

Instrument :

MSVOA_X

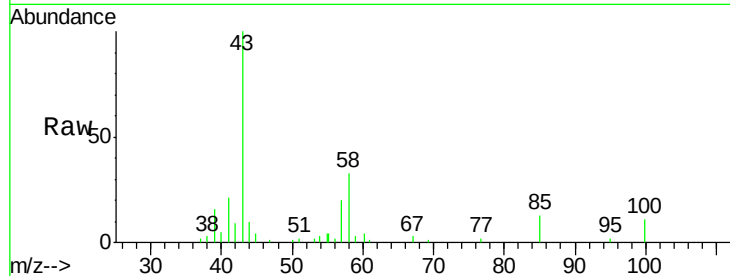
ClientSampleId :

Tot Ion: 43 Resp: 6407

Ion Ratio Lower Upper

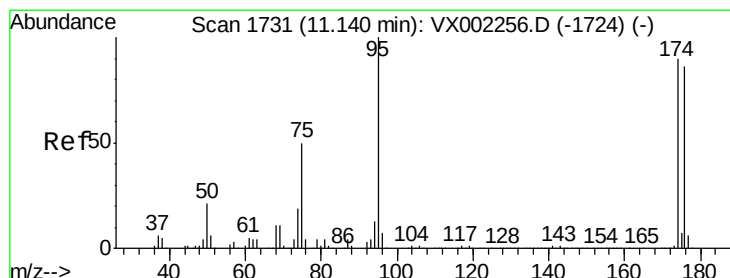
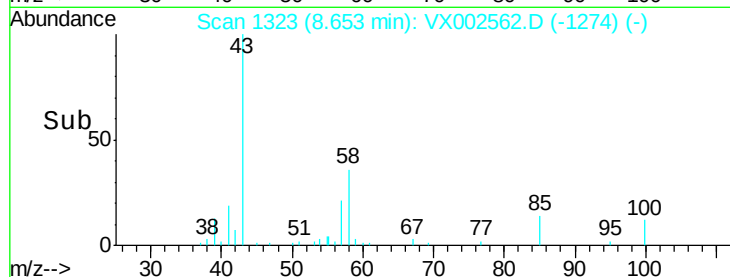
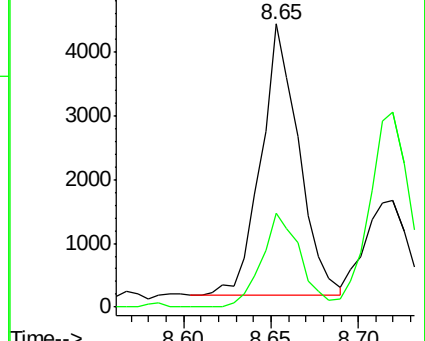
43 100

58 34.9 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: VX002562.D

Acq: 14 Jun 2018 19:52

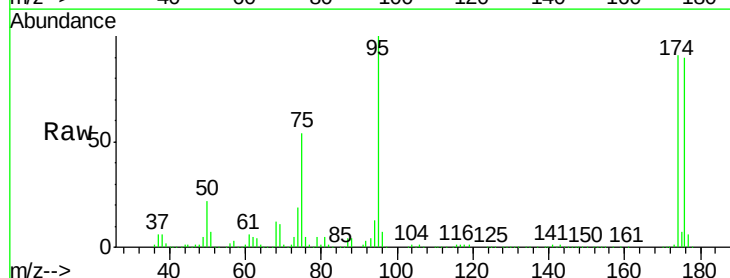
Tgt Ion: 95 Resp: 179262

Ion Ratio Lower Upper

95 100

174 95.2 0.0 187.4

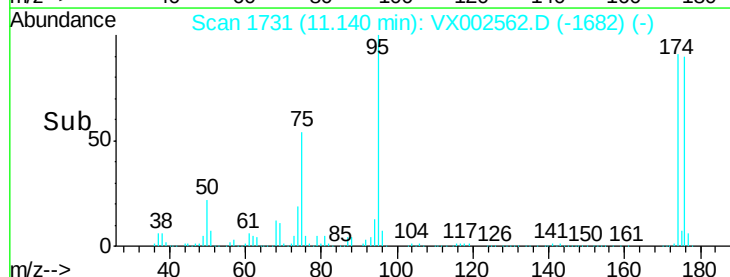
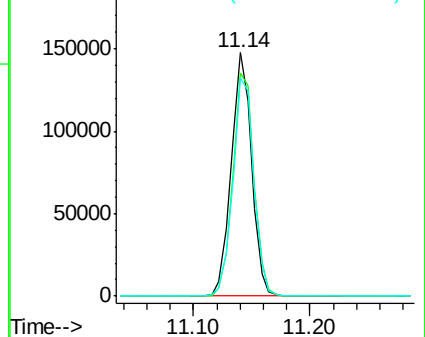
176 92.7 0.0 181.0

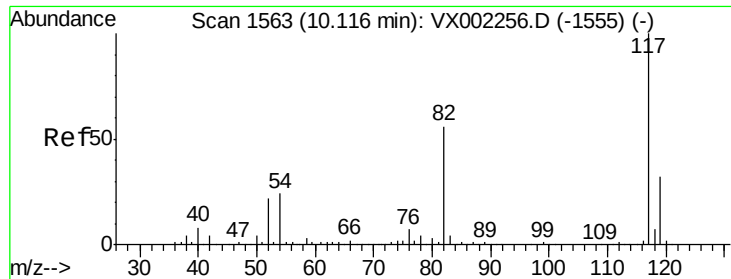


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

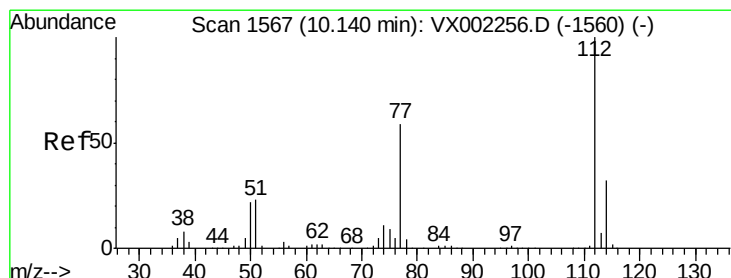
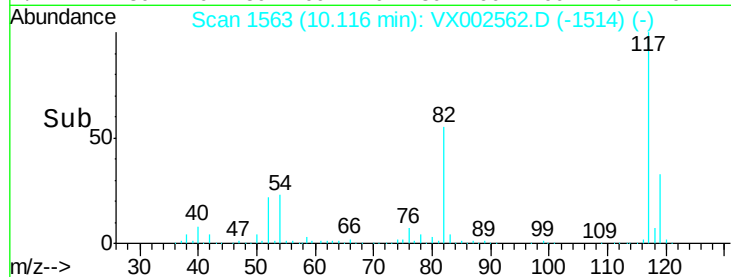
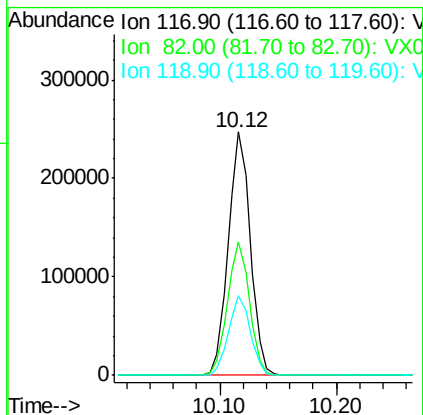
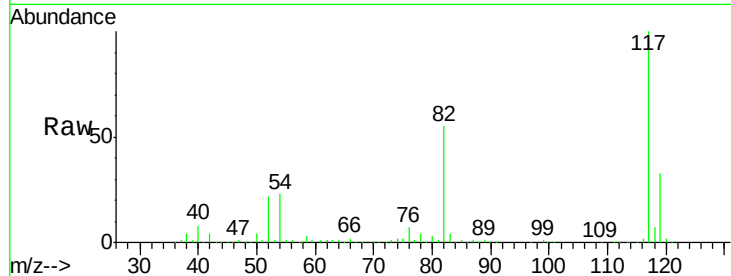




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002562.D
Acq: 14 Jun 2018 19:52

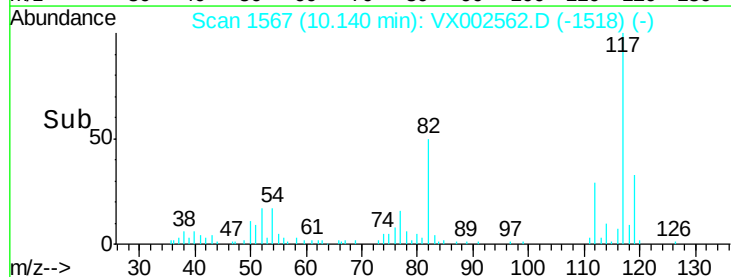
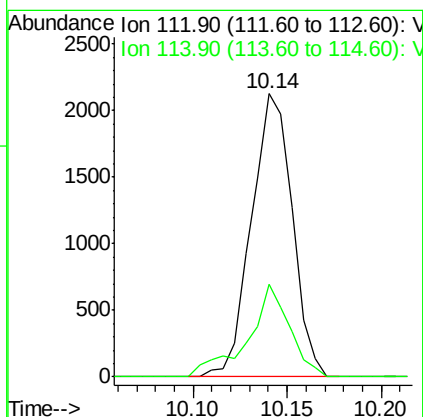
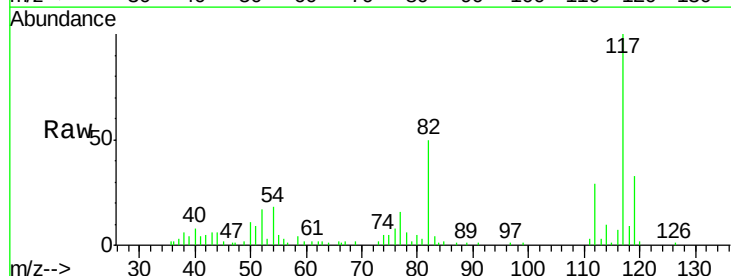
Instrument :
MSVOA_X
ClientSampleId :

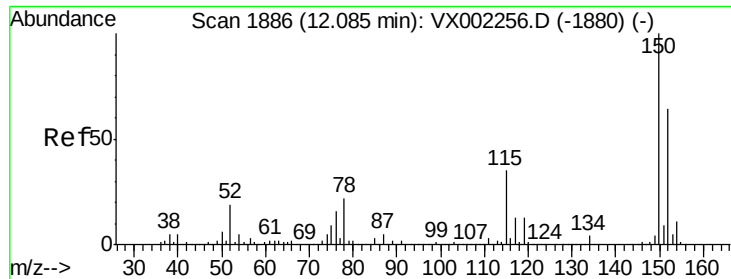
Tot Ion:117 Resp: 324882
Ion Ratio Lower Upper
117 100
82 54.8 45.0 67.4
119 32.9 25.8 38.6



#65
Chlorobenzene
Concen: 0.40 ug/l
RT: 10.14 min Scan# 1567
Delta R.T. 0.00 min
Lab File: VX002562.D
Acq: 14 Jun 2018 19:52

Tgt Ion:112 Resp: 3195
Ion Ratio Lower Upper
112 100
114 32.7 25.3 37.9

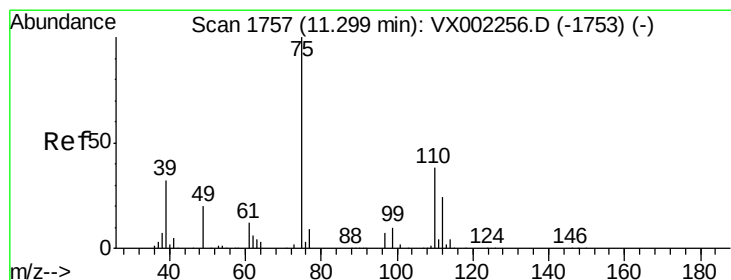
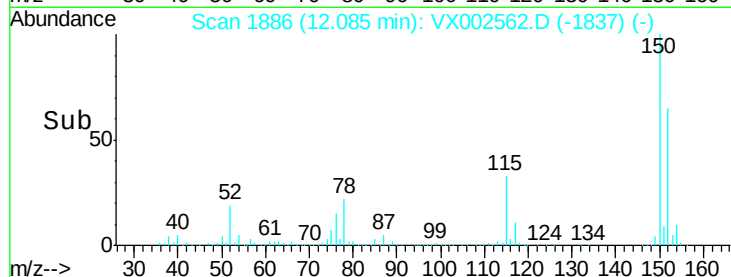
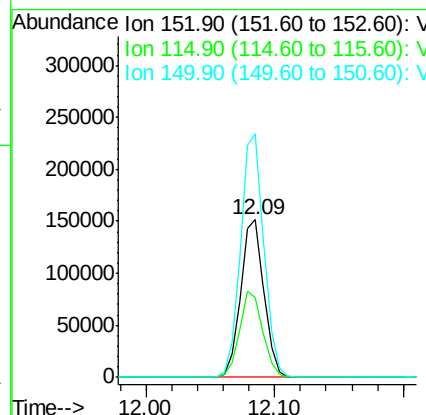
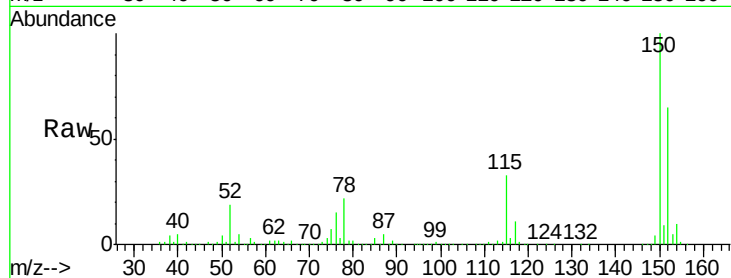




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.00 ug/l
 RT: 12.09 min Scan# 1886
 Delta R.T. 0.00 min
 Lab File: VX002562.D
 Acq: 14 Jun 2018 19:52

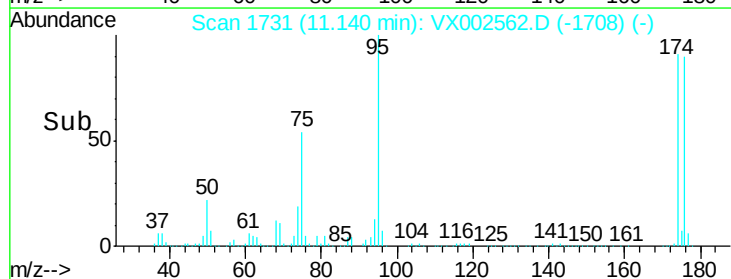
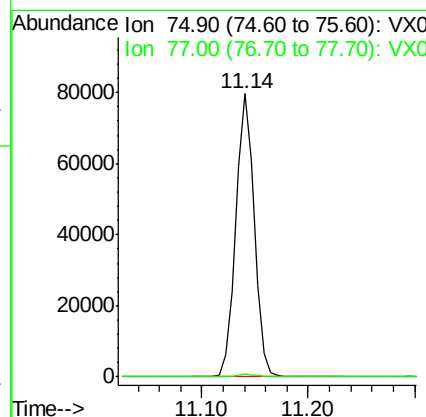
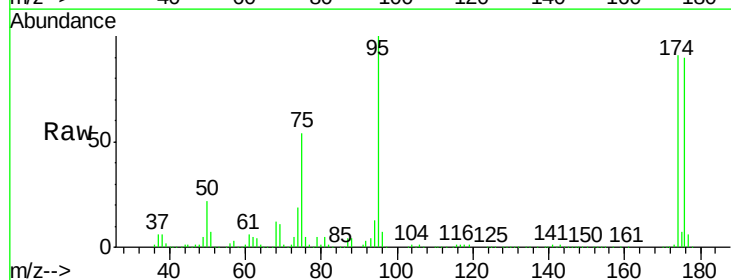
Instrument :
 MSVOA_X
 ClientSampled :

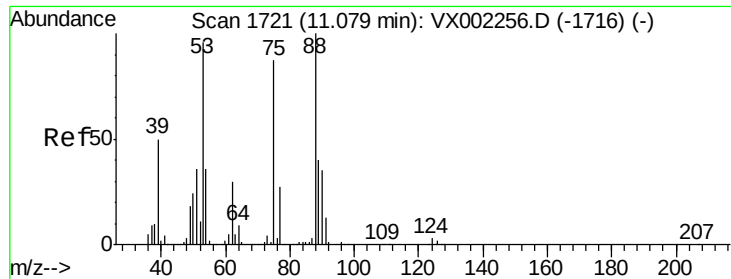
Tot Ion:152 Resp: 189989
 Ion Ratio Lower Upper
 152 100
 115 54.5 40.1 120.2
 150 154.7 0.0 347.2



#76
 1,2,3-Trichloropropane
 Concen: 23.36 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX002562.D
 Acq: 14 Jun 2018 19:52

Tgt Ion: 75 Resp: 97364
 Ion Ratio Lower Upper
 75 100
 77 1.2 22.8 68.3#





#81

trans-1,4-Dichloro-2-butene

Concen: 81.87 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002562.D

Acq: 14 Jun 2018 19:52

Instrument :

MSVOA_X

ClientSampled :

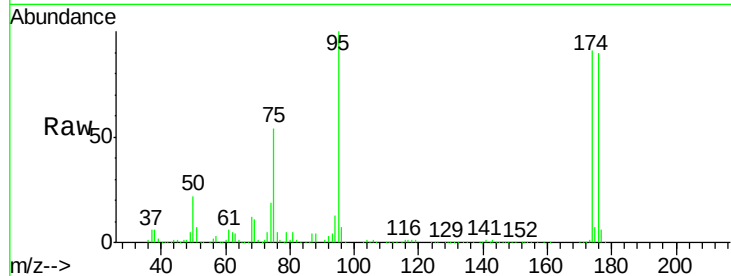
Tot Ion: 75 Resp: 97364

Ion Ratio Lower Upper

75 100

53 0.0 86.8 130.2#

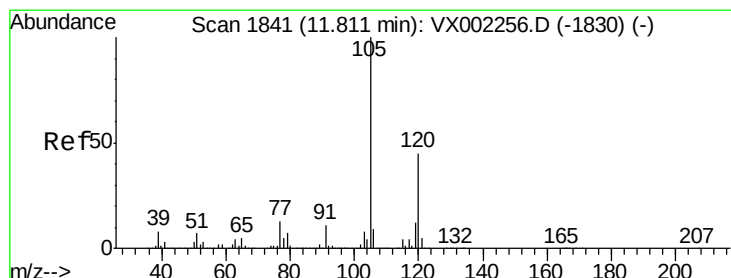
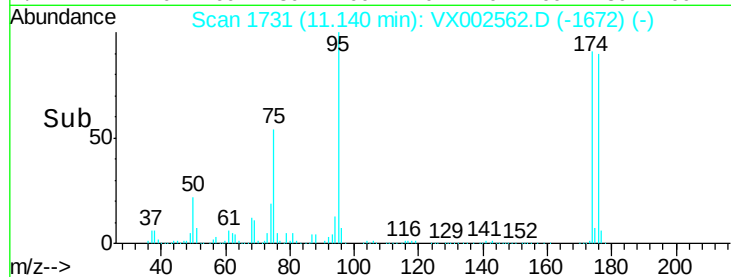
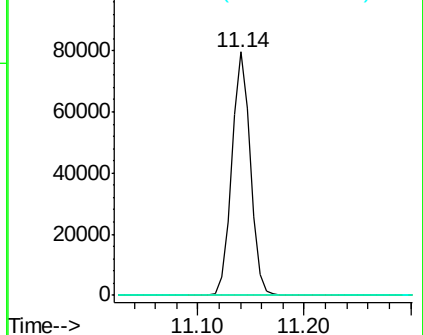
89 0.0 38.2 57.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#84

1,2,4-Trimethylbenzene

Concen: 0.20 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. 0.00 min

Lab File: VX002562.D

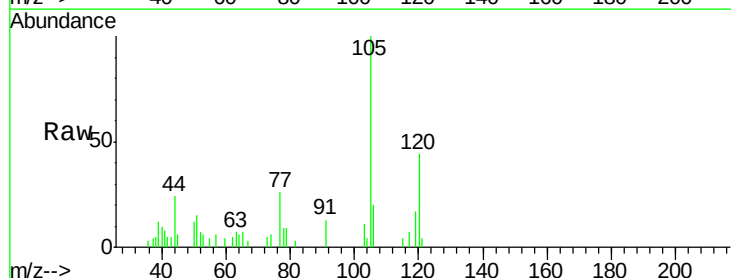
Acq: 14 Jun 2018 19:52

Tgt Ion:105 Resp: 2385

Ion Ratio Lower Upper

105 100

120 39.4 22.3 66.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

