

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX062918\
 Data File : VX003050.D
 Acq On : 30 Jun 2018 01:10
 Operator : JC/MD
 Sample : J3668-02DL 20X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 30 02:34:29 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 14:38:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	265570	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	372538	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	344083	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	191731	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	175977	47.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.88%	
35) Dibromofluoromethane	5.51	113	142403	48.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.54%	
50) Toluene-d8	8.72	98	526876	48.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.82%	
62) 4-Bromofluorobenzene	11.14	95	180188	43.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.74%	

Target Compounds

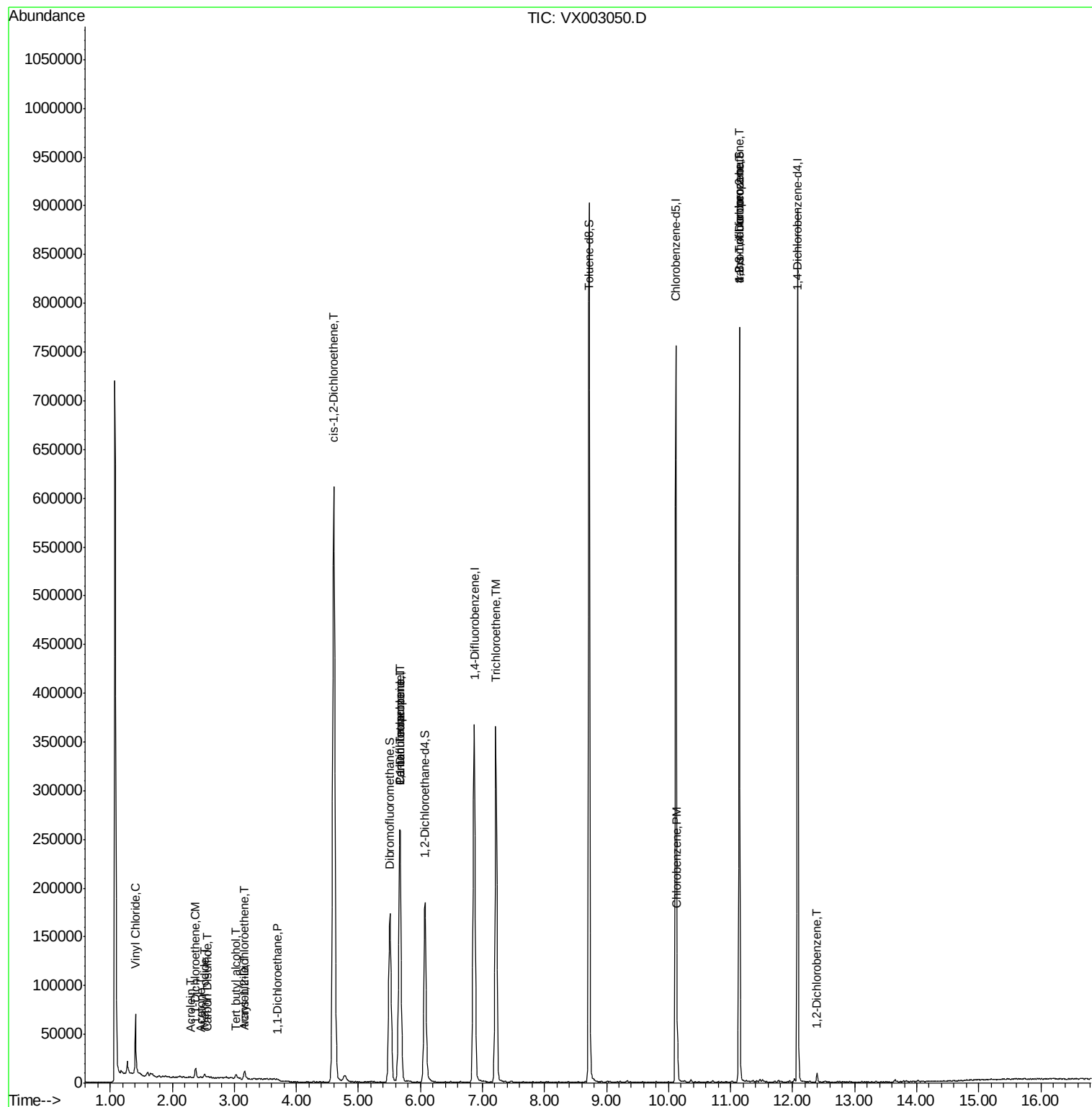
						Qvalue
2) Dichlorodifluoromethane	1.20	85	217	Below Cal	#	59
3) Chloromethane	1.33	50	778	Below Cal	#	83
4) Vinyl Chloride	1.40	62	36666	12.21	ug/l	# 82
5) Bromomethane	1.65	94	2243	Below Cal	#	71
6) Chloroethane	1.73	64	813	Below Cal	#	43
10) Methyl Iodide	2.52	142	3516	7.26	ug/l	96
11) Tert butyl alcohol	3.02	59	2603	3.56	ug/l	# 86
12) 1,1-Dichloroethene	2.38	96	3192	1.22	ug/l	98
13) Acrolein	2.29	56	229	4.78	ug/l	# 62
15) Acrylonitrile	3.15	53	521	0.33	ug/l	# 85
16) Acetone	2.45	43	978	0.64	ug/l	# 82
17) Carbon Disulfide	2.57	76	1739	0.25	ug/l	# 78
21) trans-1,2-Dichloroethene	3.16	96	3228	1.13	ug/l	83
24) 1,1-Dichloroethane	3.70	63	1860	0.35	ug/l	# 83
27) cis-1,2-Dichloroethene	4.60	96	386748	120.92	ug/l	81
36) 1,1-Dichloropropene	5.67	75	18072	4.42	ug/l	# 50
38) Carbon Tetrachloride	5.67	117	24250	5.41	ug/l	# 16
44) Trichloroethene	7.21	130	144701	40.89	ug/l	98
65) Chlorobenzene	10.14	112	16981	1.94	ug/l	97
76) 1,2,3-Trichloropropane	11.14	75	92827	26.73	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	92827	75.70	ug/l	# 7
91) 1,2-Dichlorobenzene	12.40	146	2339	0.35	ug/l	98

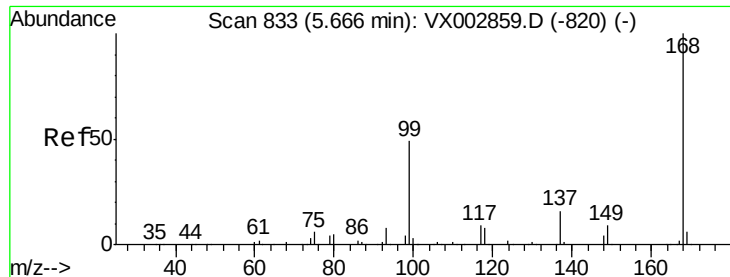
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jun 30 02:34:29 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
Quant Title : SW846 8260
QLast Update : Mon Jun 25 14:38:05 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX003050.D

Acq: 30 Jun 2018 01:10

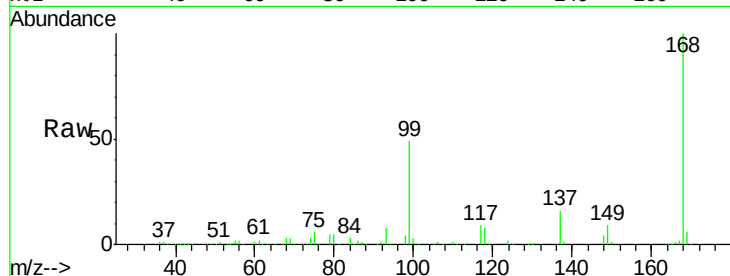
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 265570

Ion Ratio Lower Upper

168 100

99 48.6 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

100000

80000

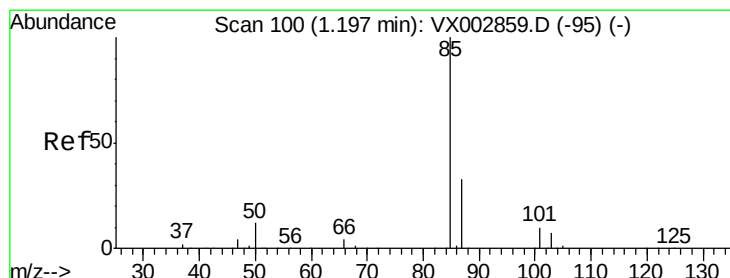
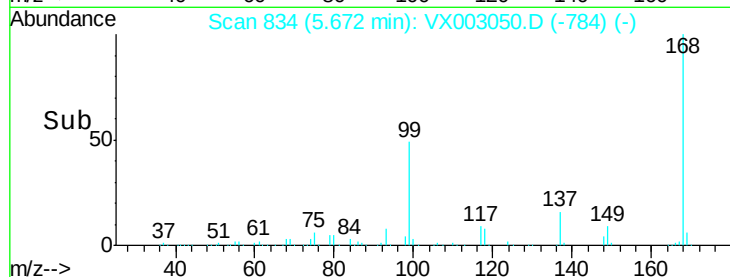
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX003050.D

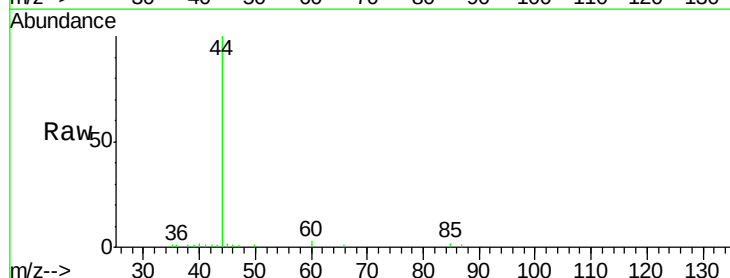
Acq: 30 Jun 2018 01:10

Tgt Ion: 85 Resp: 217

Ion Ratio Lower Upper

85 100

87 54.6 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

250

200

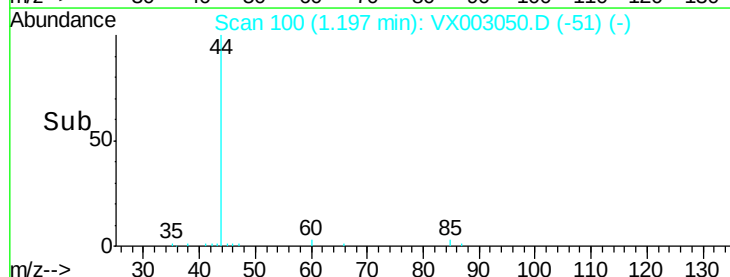
150

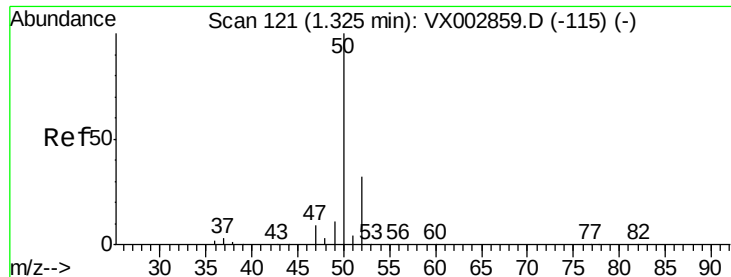
100

50

0

Time--> 1.16 1.18 1.20 1.22





#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX003050.D

Acq: 30 Jun 2018 01:10

Instrument :

MSVOA_X

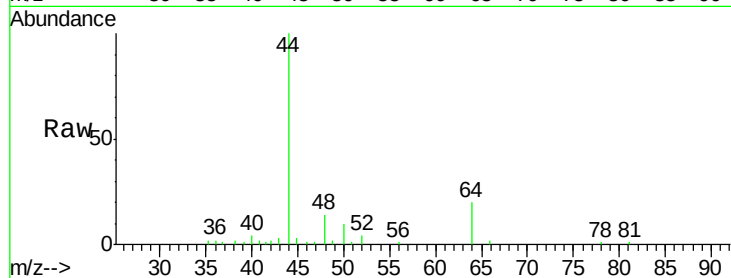
ClientSampled :

Tot Ion: 50 Resp: 778

Ion Ratio Lower Upper

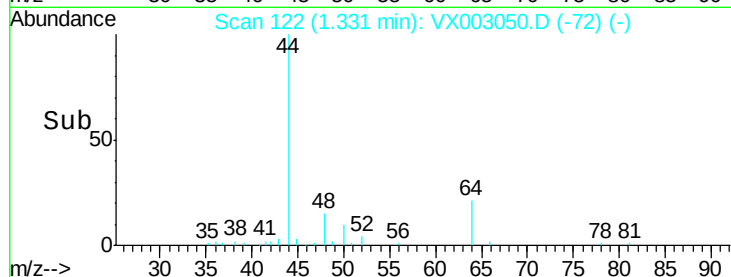
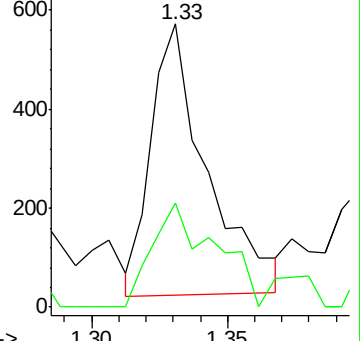
50 100

52 41.7 25.7 38.5#

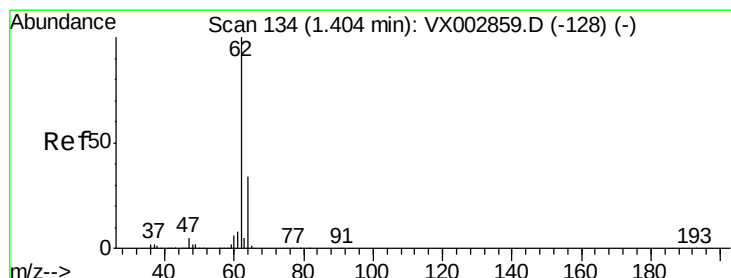


Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



Time-->



#4

Vinyl Chloride

Concen: 12.21 ug/l

RT: 1.40 min Scan# 134

Delta R.T. -0.00 min

Lab File: VX003050.D

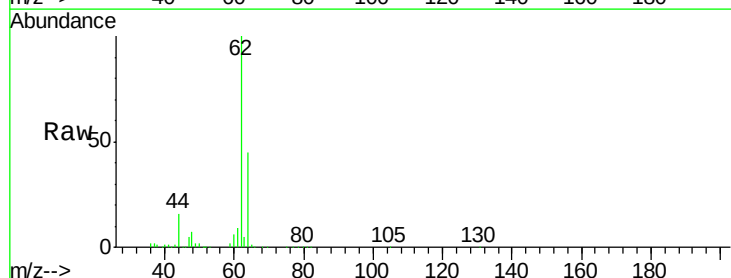
Acq: 30 Jun 2018 01:10

Tgt Ion: 62 Resp: 36666

Ion Ratio Lower Upper

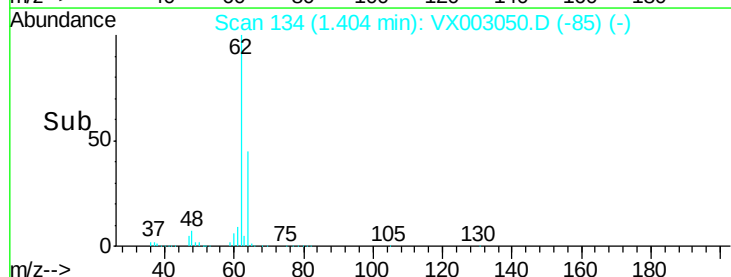
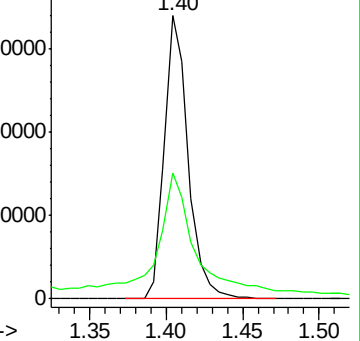
62 100

64 41.9 25.4 38.2#

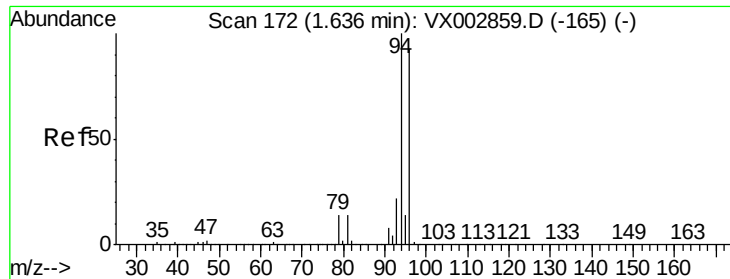


Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX003050.D

Acq: 30 Jun 2018 01:10

Instrument :

MSVOA_X

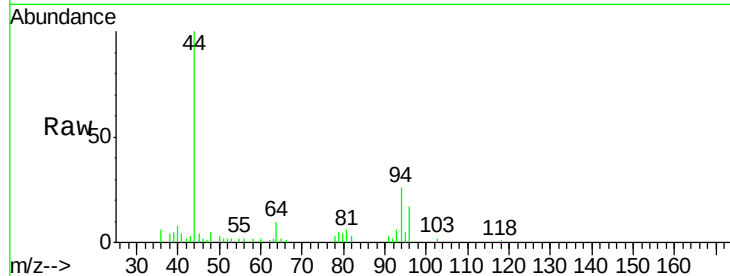
ClientSampled :

Tot Ion: 94 Resp: 2243

Ion Ratio Lower Upper

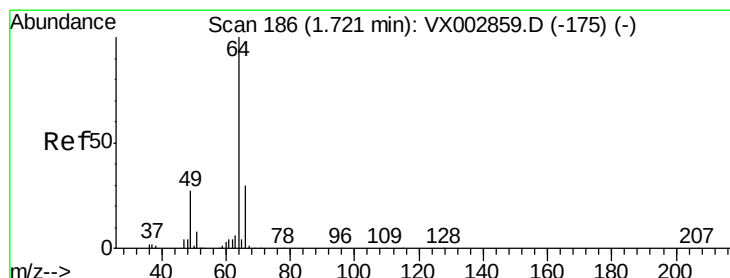
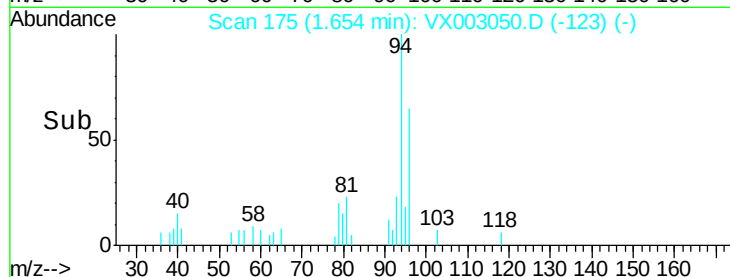
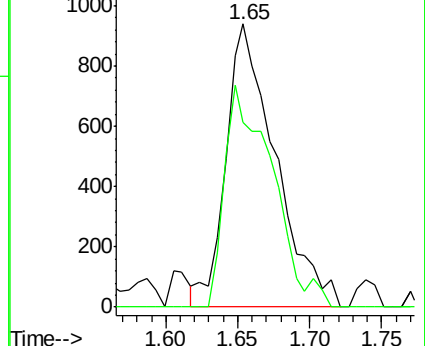
94 100

96 65.5 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 187

Delta R.T. 0.01 min

Lab File: VX003050.D

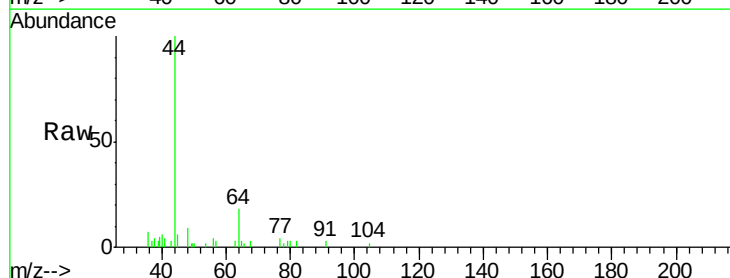
Acq: 30 Jun 2018 01:10

Tgt Ion: 64 Resp: 813

Ion Ratio Lower Upper

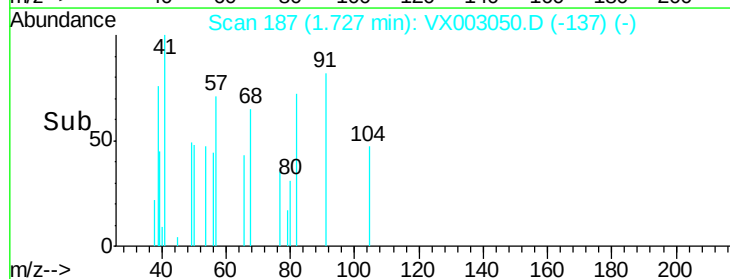
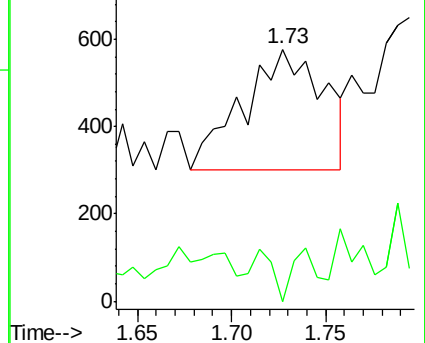
64 100

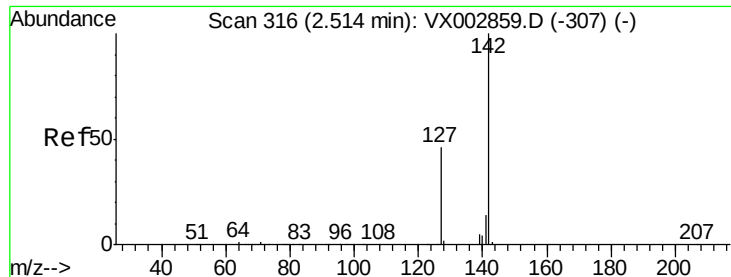
66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

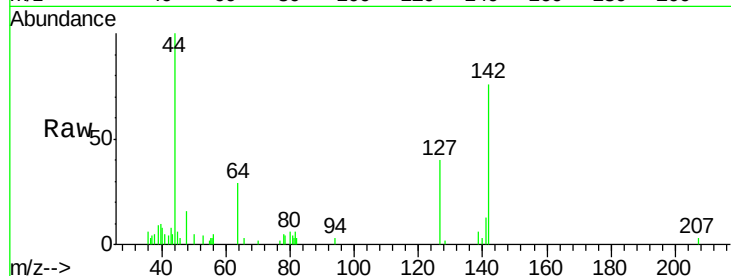




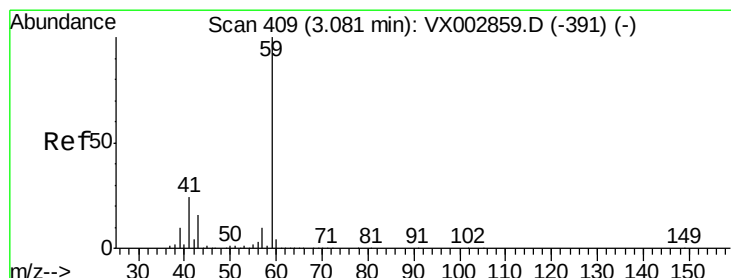
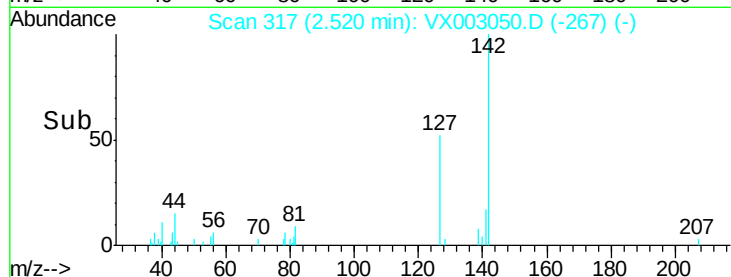
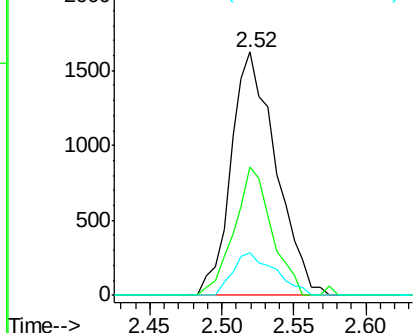
#10
Methvl Iodide
Concen: 7.26 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX003050.D
Acq: 30 Jun 2018 01:10

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:142 Resp: 3516
Ion Ratio Lower Upper
142 100
127 43.9 36.6 55.0
141 16.6 11.3 16.9

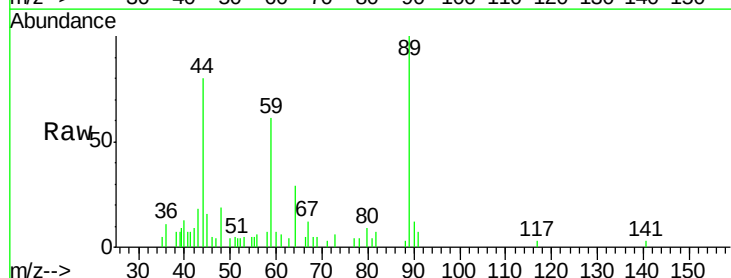


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

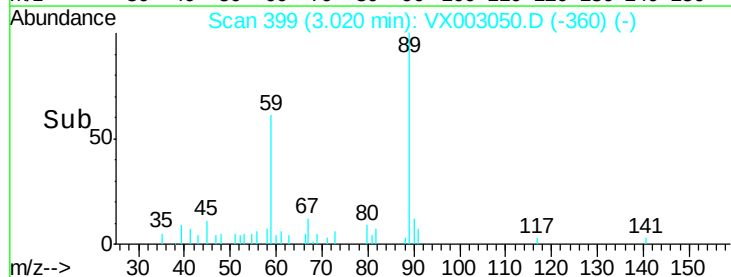
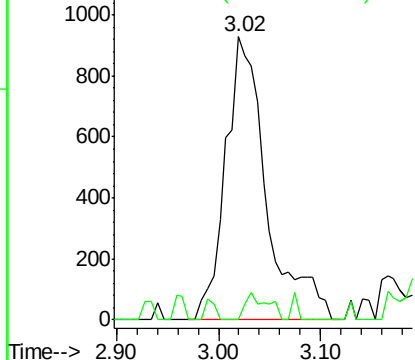


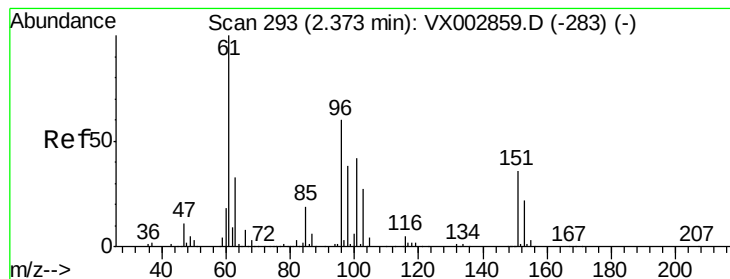
#11
Tert butyl alcohol
Concen: 3.56 ug/l
RT: 3.02 min Scan# 399
Delta R.T. -0.06 min
Lab File: VX003050.D
Acq: 30 Jun 2018 01:10

Tgt Ion: 59 Resp: 2603
Ion Ratio Lower Upper
59 100
57 5.1 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 1.22 ug/l

RT: 2.38 min Scan# 294

Delta R.T. 0.01 min

Lab File: VX003050.D

Acq: 30 Jun 2018 01:10

Instrument :

MSVOA_X

ClientSampled :

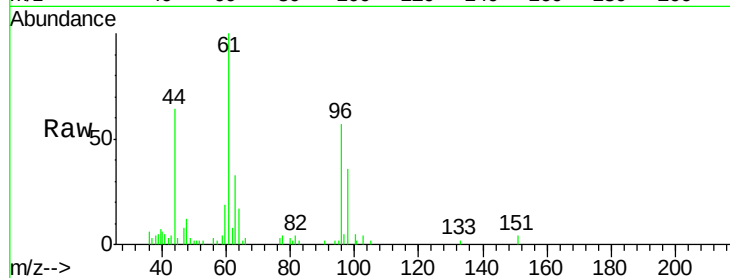
Tot Ion: 96 Resp: 3192

Ion Ratio Lower Upper

96 100

61 174.8 137.9 206.9

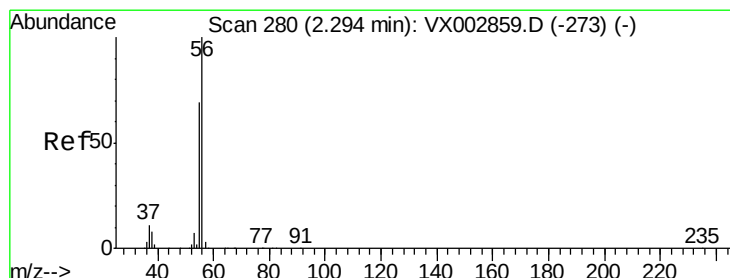
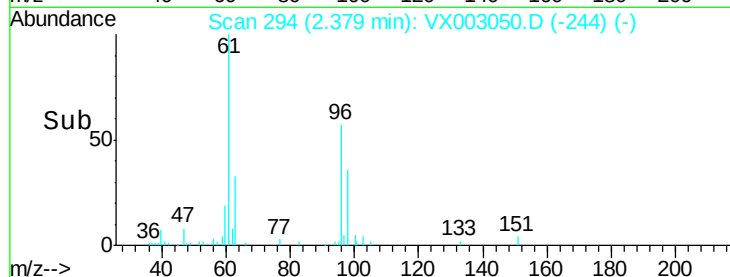
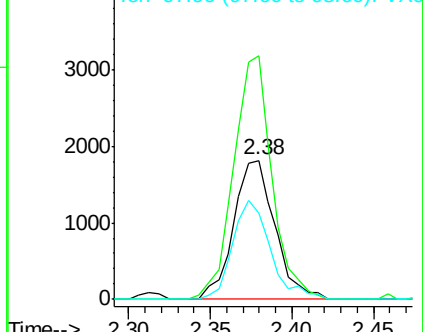
98 62.2 51.6 77.4



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#13

Acrolein

Concen: 4.78 ug/l

RT: 2.29 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX003050.D

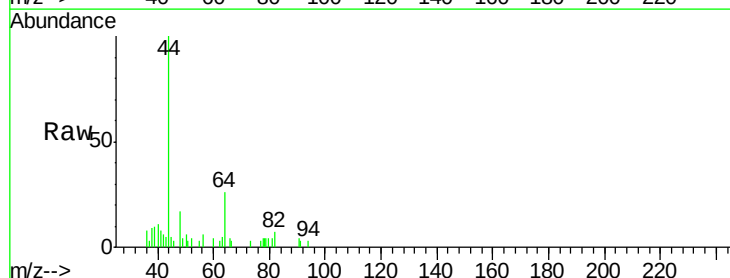
Acq: 30 Jun 2018 01:10

Tgt Ion: 56 Resp: 229

Ion Ratio Lower Upper

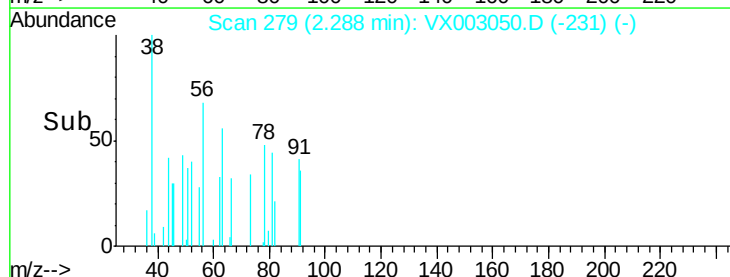
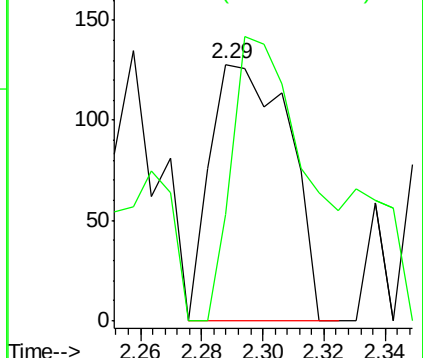
56 100

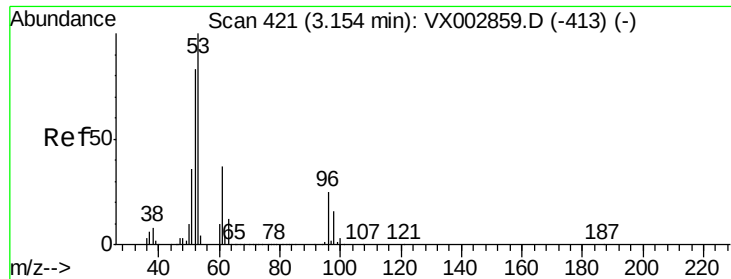
55 103.1 57.0 85.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#15

Acrylonitrile

Concen: 0.33 ug/l

RT: 3.15 min Scan# 420

Delta R.T. -0.01 min

Lab File: VX003050.D

Acq: 30 Jun 2018 01:10

Instrument :

MSVOA_X

ClientSampled :

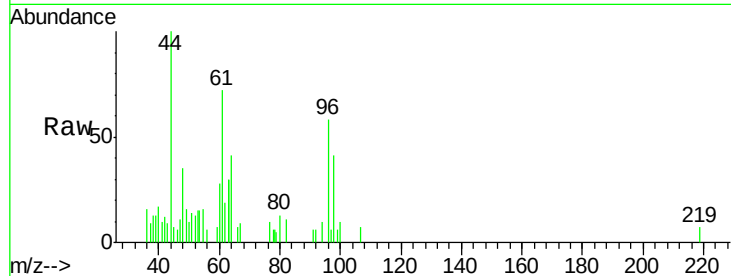
Tot Ion: 53 Resp: 521

Ion Ratio Lower Upper

53 100

52 91.4 66.7 100.1

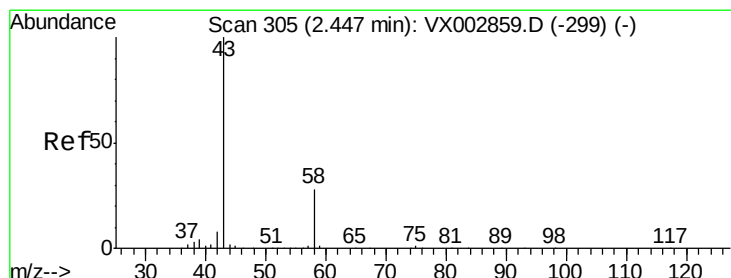
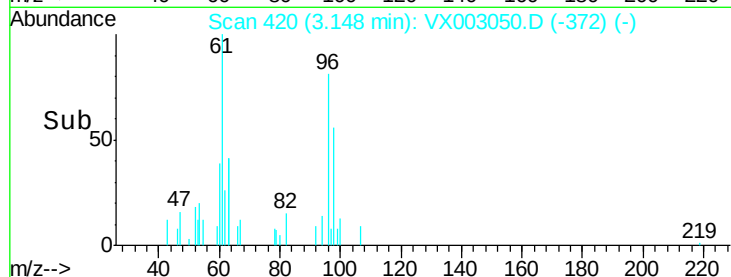
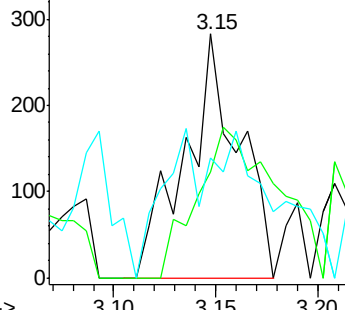
51 54.5 29.9 44.9#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 0.64 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX003050.D

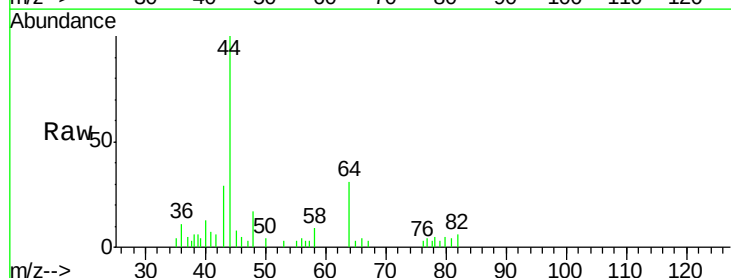
Acq: 30 Jun 2018 01:10

Tgt Ion: 43 Resp: 978

Ion Ratio Lower Upper

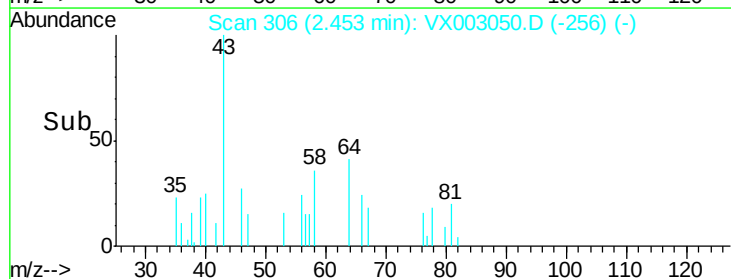
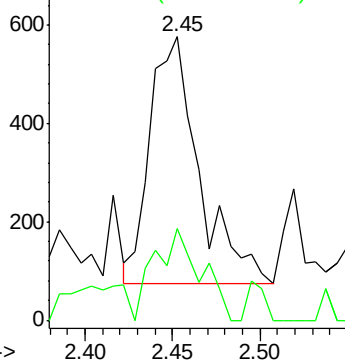
43 100

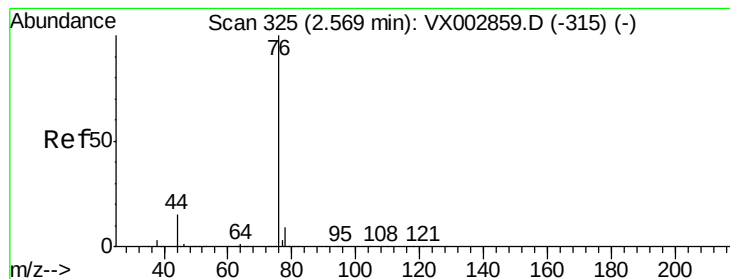
58 37.1 22.1 33.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.25 ug/l

RT: 2.57 min Scan# 325

Delta R.T. -0.00 min

Lab File: VX003050.D

Acq: 30 Jun 2018 01:10

Instrument :

MSVOA_X

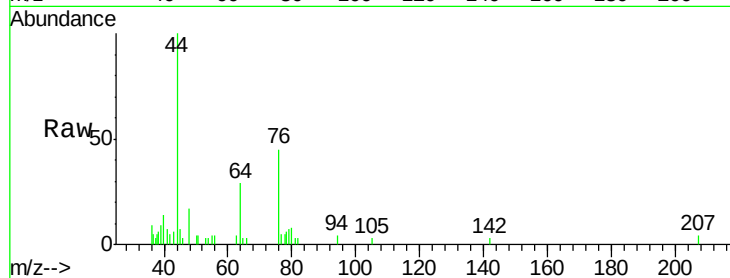
ClientSampled :

Tot Ion: 76 Resp: 1739

Ion Ratio Lower Upper

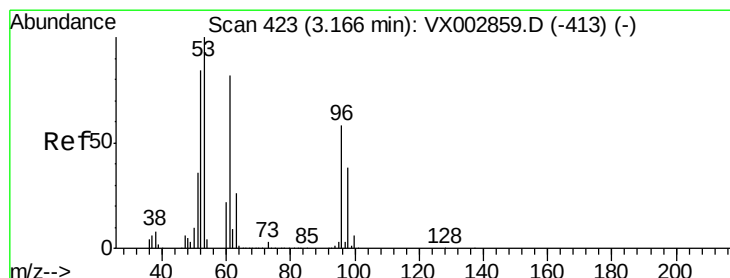
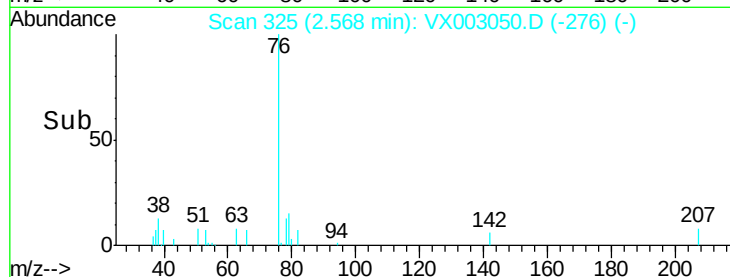
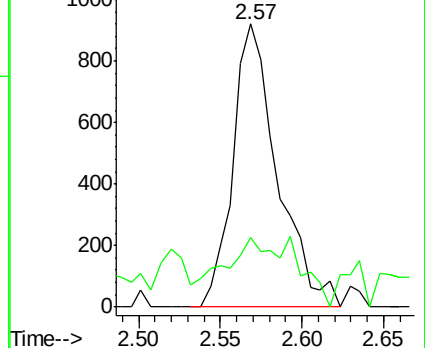
76 100

78 16.6 6.9 10.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#21

trans-1,2-Dichloroethene

Concen: 1.13 ug/l

RT: 3.16 min Scan# 422

Delta R.T. -0.01 min

Lab File: VX003050.D

Acq: 30 Jun 2018 01:10

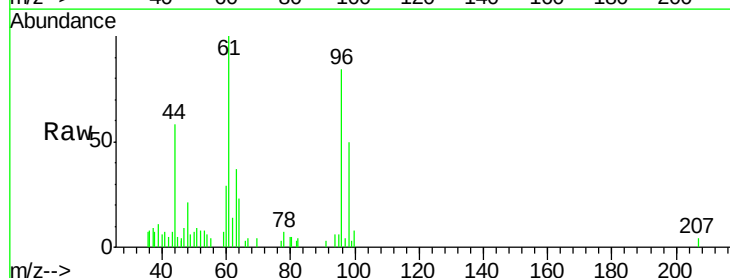
Tgt Ion: 96 Resp: 3228

Ion Ratio Lower Upper

96 100

61 119.4 117.0 175.4

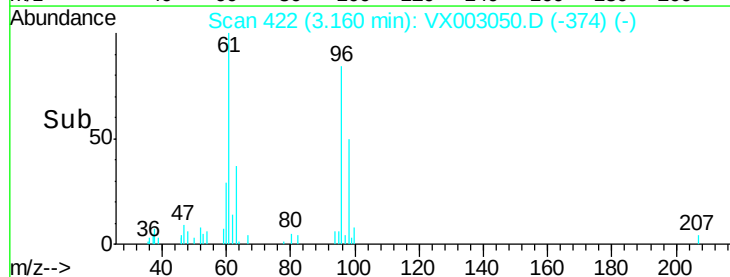
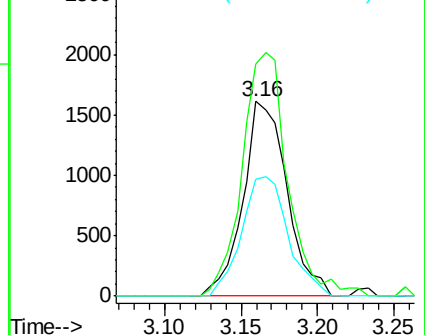
98 60.3 52.4 78.6

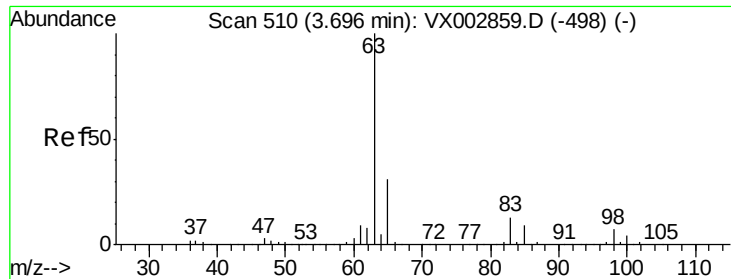


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

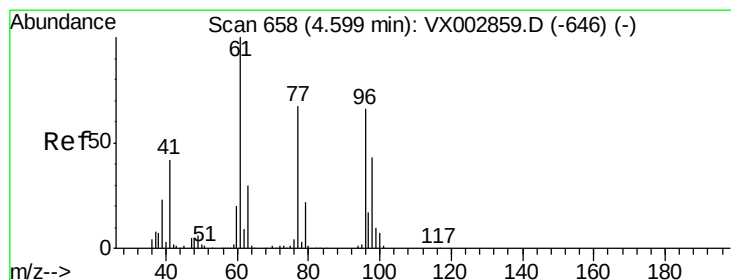
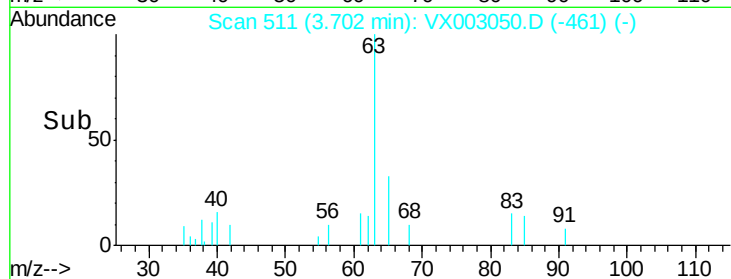
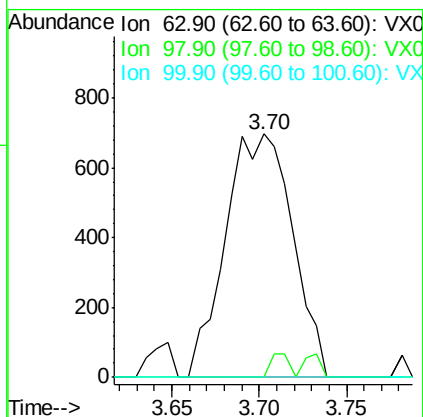
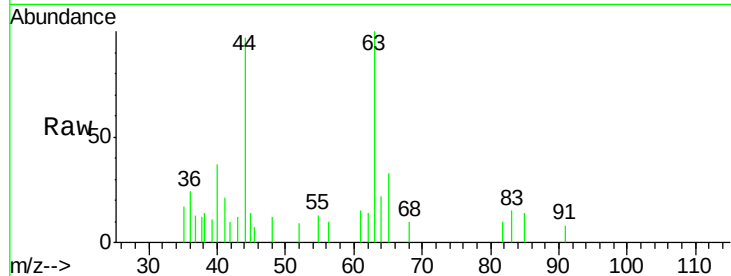




#24
 1,1-Dichloroethane
 Concen: 0.35 ug/l
 RT: 3.70 min Scan# 511
 Delta R.T. 0.01 min
 Lab File: VX003050.D
 Acq: 30 Jun 2018 01:10

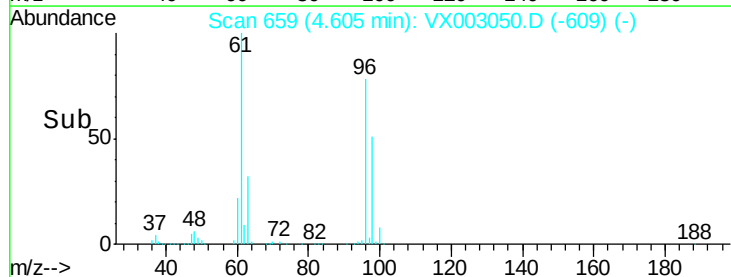
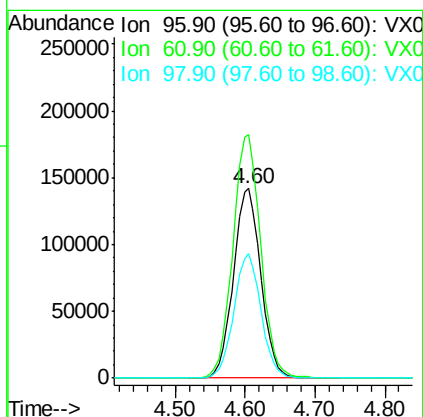
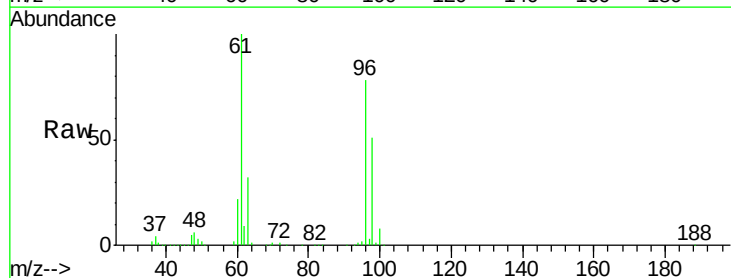
Instrument :
 MSVOA_X
 ClientSampleId :

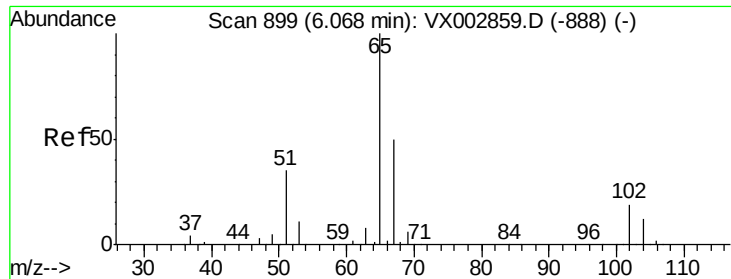
Tot Ion: 63 Resp: 1860
 Ion Ratio Lower Upper
 63 100
 98 0.0 3.4 10.2#
 100 0.0 2.0 6.0#



#27
 cis-1,2-Dichloroethene
 Concen: 120.92 ug/l
 RT: 4.60 min Scan# 659
 Delta R.T. 0.01 min
 Lab File: VX003050.D
 Acq: 30 Jun 2018 01:10

Tgt Ion: 96 Resp: 386748
 Ion Ratio Lower Upper
 96 100
 61 130.6 0.0 330.2
 98 64.6 0.0 130.2

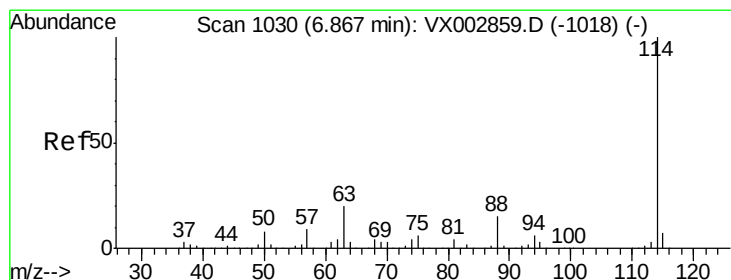
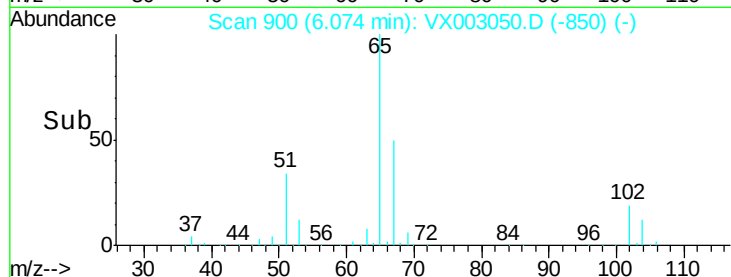
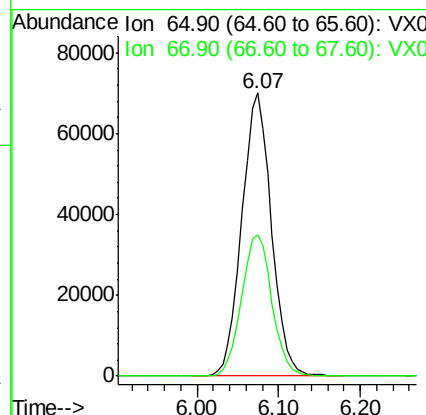
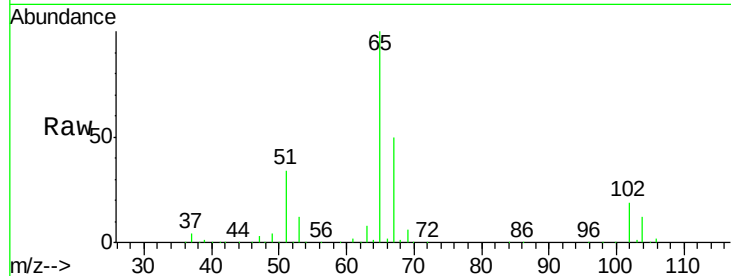




#33
 1,2-Dichloroethane-d4
 Concen: 47.94 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VX003050.D
 Acq: 30 Jun 2018 01:10

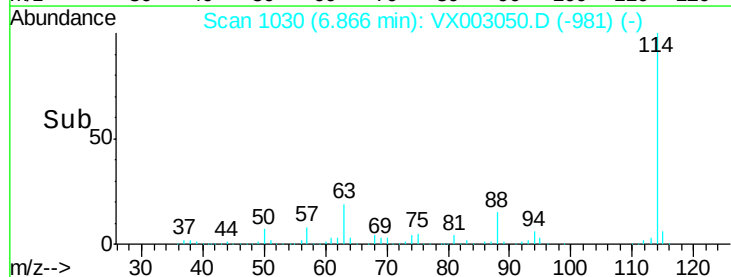
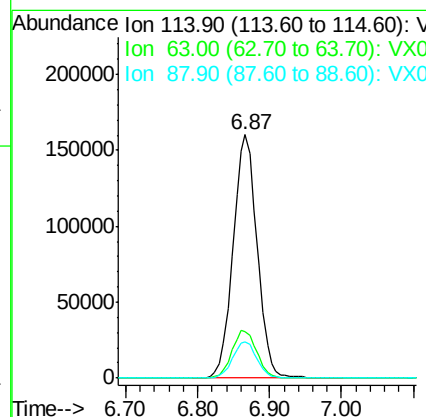
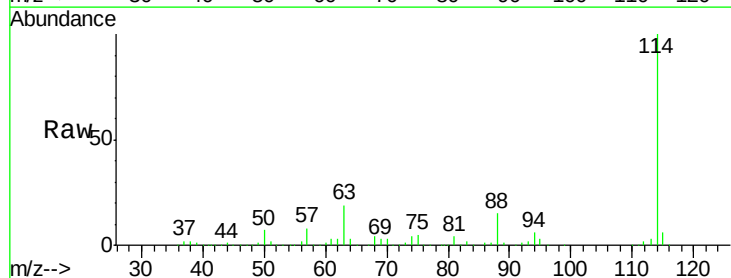
Instrument :
 MSVOA_X
 ClientSampleId :

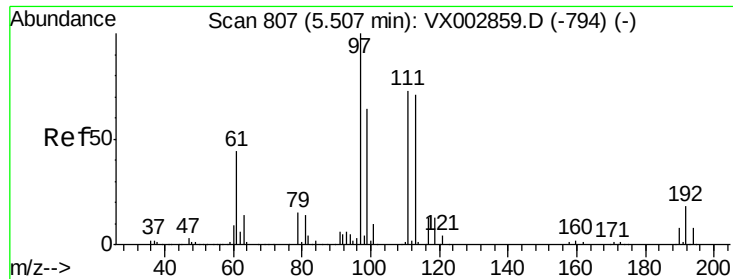
Tot Ion: 65 Resp: 175977
 Ion Ratio Lower Upper
 65 100
 67 51.2 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX003050.D
 Acq: 30 Jun 2018 01:10

Tgt Ion: 114 Resp: 372538
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 41.4
 88 15.0 0.0 30.0

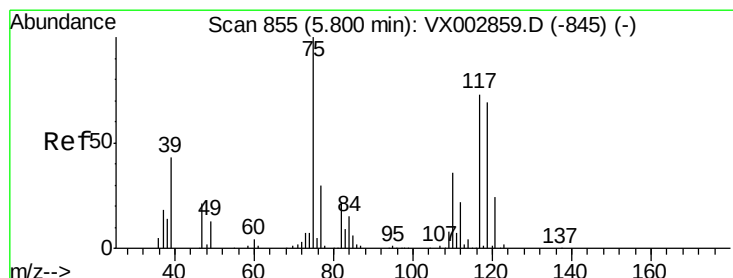
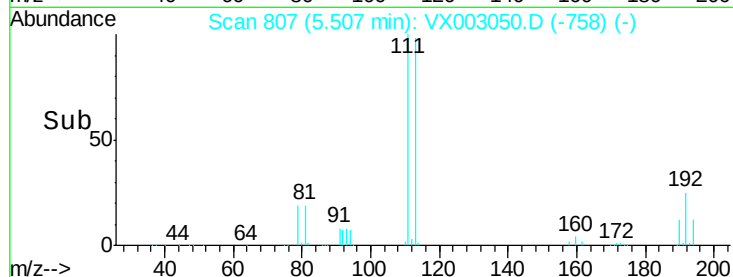
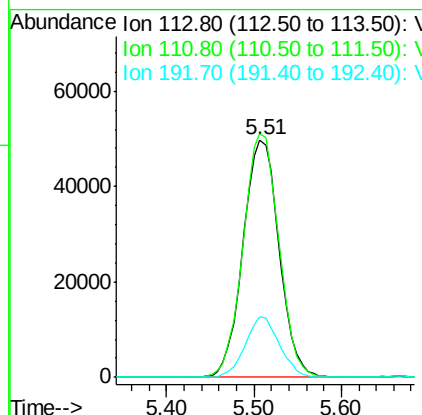
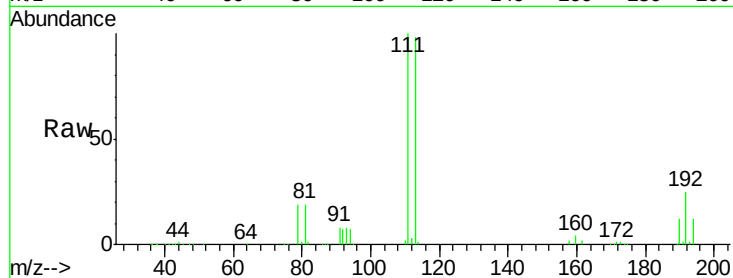




#35
 Dibromofluoromethane
 Concen: 48.27 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. -0.00 min
 Lab File: VX003050.D
 Acq: 30 Jun 2018 01:10

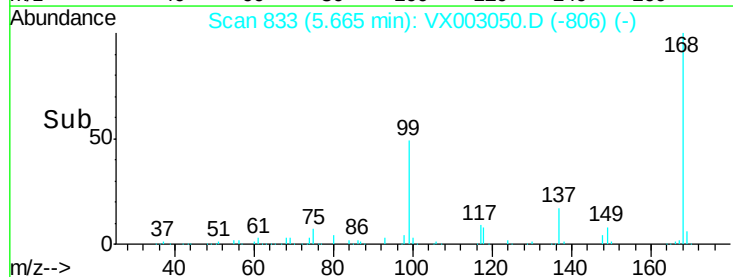
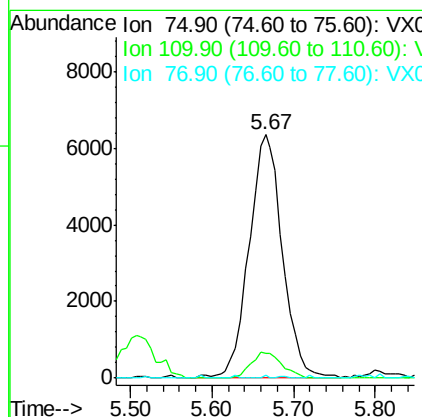
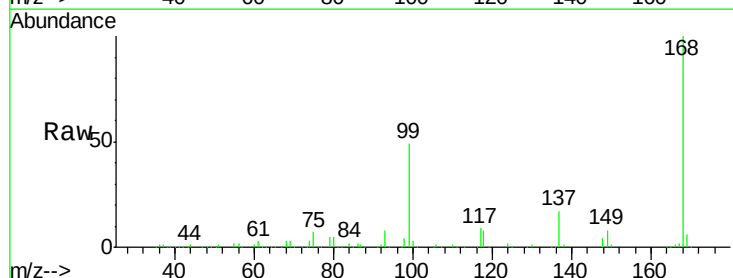
Instrument :
 MSVOA_X
 ClientSampleId :

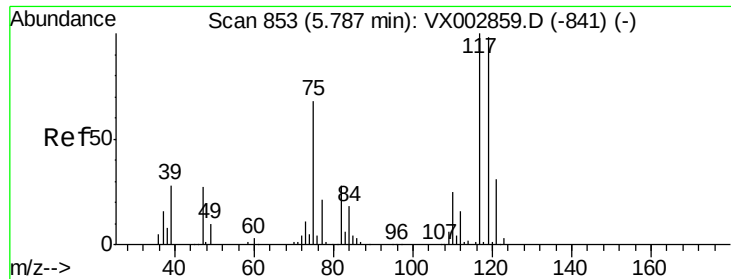
Tot Ion:113 Resp: 142403
 Ion Ratio Lower Upper
 113 100
 111 102.3 81.4 122.0
 192 24.2 19.1 28.7



#36
 1,1-Dichloropropene
 Concen: 4.42 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX003050.D
 Acq: 30 Jun 2018 01:10

Tgt Ion: 75 Resp: 18072
 Ion Ratio Lower Upper
 75 100
 110 9.7 18.1 54.4#
 77 0.2 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 5.41 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003050.D

Acq: 30 Jun 2018 01:10

Instrument :

MSVOA_X

ClientSampleId :

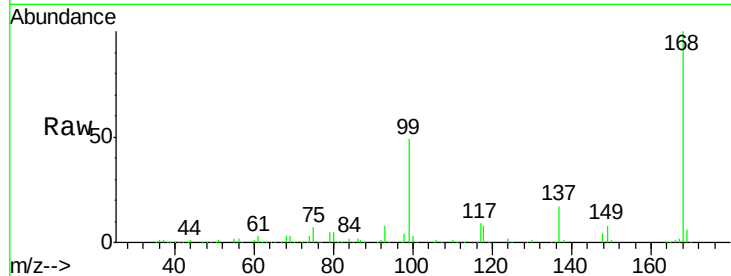
Tot Ion:117 Resp: 24250

Ion Ratio Lower Upper

117 100

119 5.0 77.4 116.0#

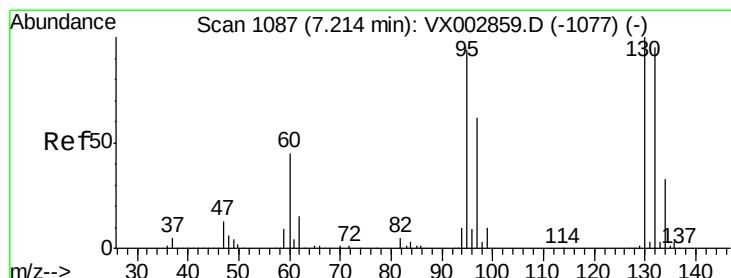
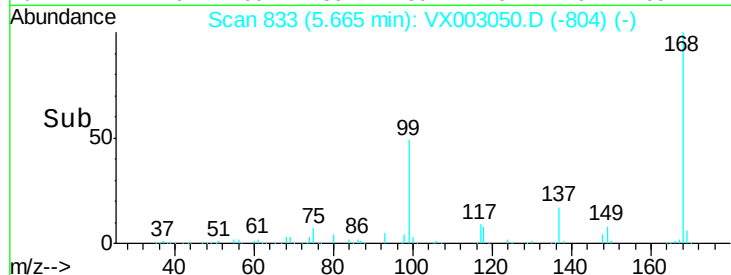
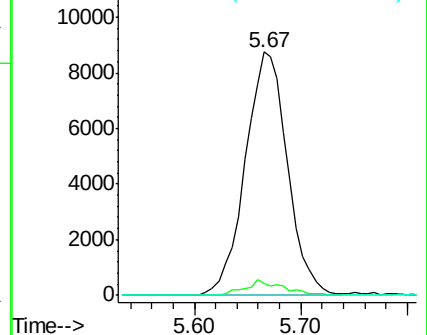
121 0.0 24.4 36.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#44

Trichloroethene

Concen: 40.89 ug/l

RT: 7.21 min Scan# 1087

Delta R.T. -0.00 min

Lab File: VX003050.D

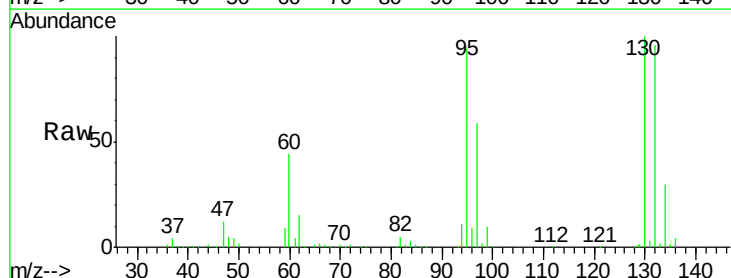
Acq: 30 Jun 2018 01:10

Tgt Ion:130 Resp: 144701

Ion Ratio Lower Upper

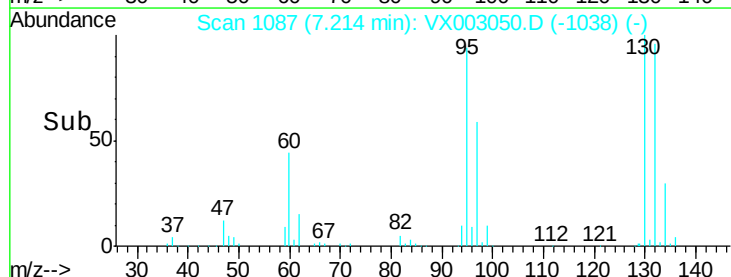
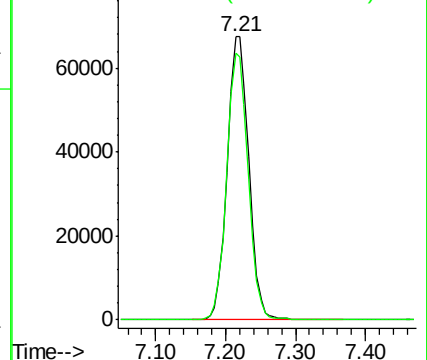
130 100

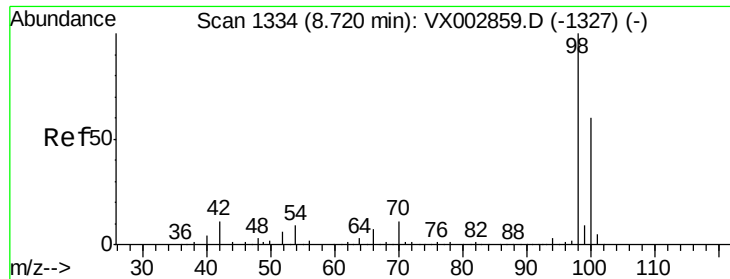
95 94.2 0.0 185.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 48.91 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003050.D

Acq: 30 Jun 2018 01:10

Instrument :

MSVOA_X

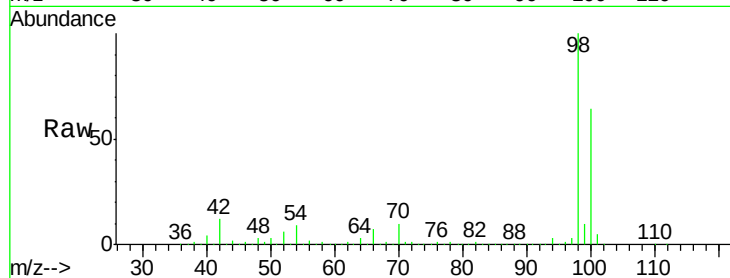
ClientSampleId :

Tot Ion: 98 Resp: 526876

Ion Ratio Lower Upper

98 100

100 63.6 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.72

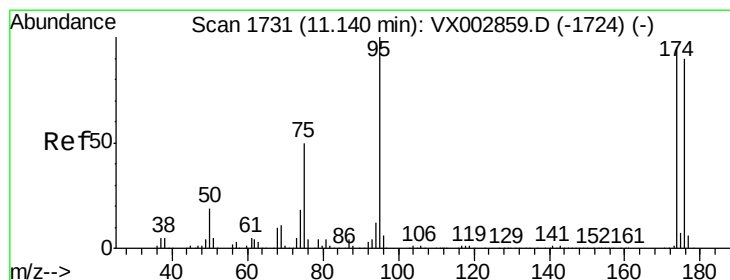
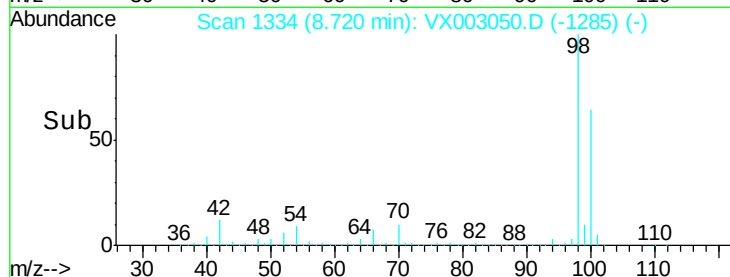
300000

200000

100000

0

Time--> 8.60 8.70 8.80



#62

4-Bromofluorobenzene

Concen: 43.37 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003050.D

Acq: 30 Jun 2018 01:10

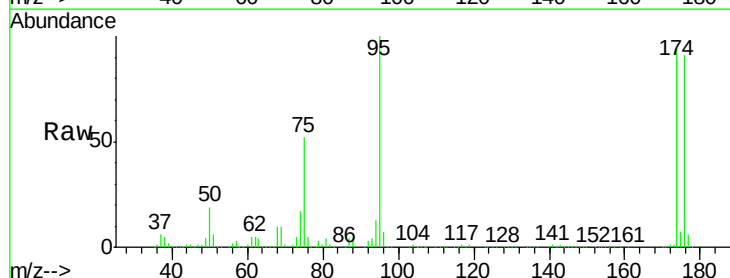
Tgt Ion: 95 Resp: 180188

Ion Ratio Lower Upper

95 100

174 97.8 0.0 187.4

176 94.8 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

11.14

200000

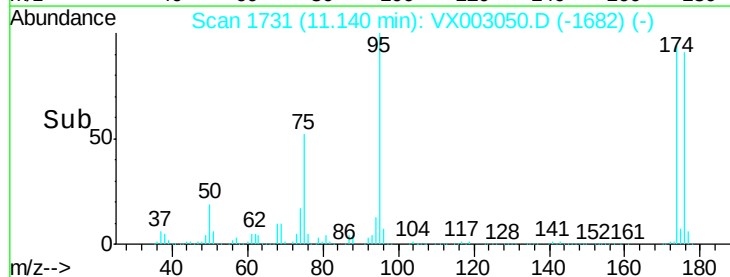
150000

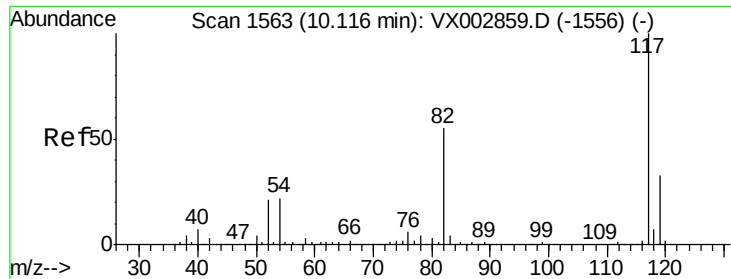
100000

50000

0

Time--> 11.10 11.20

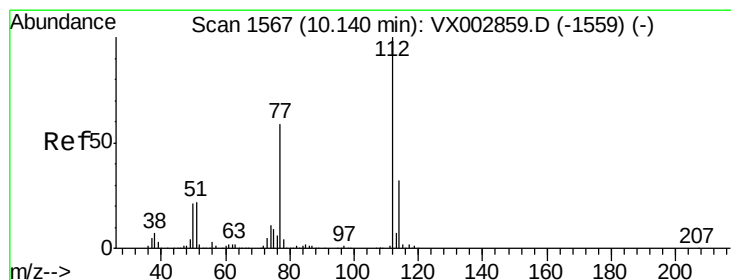
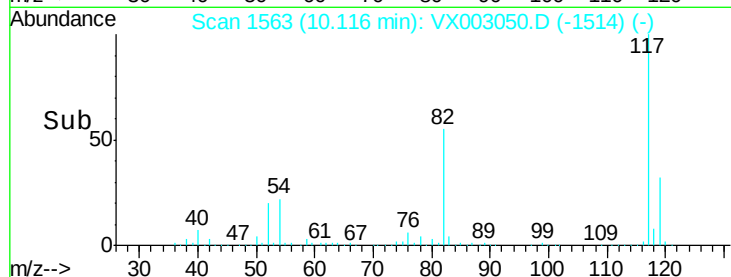
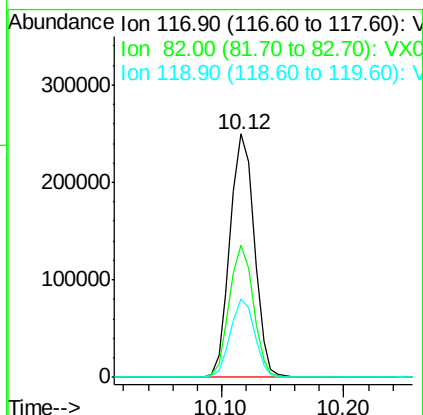
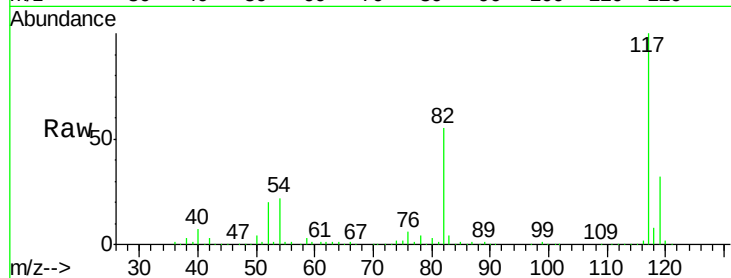




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX003050.D
Acq: 30 Jun 2018 01:10

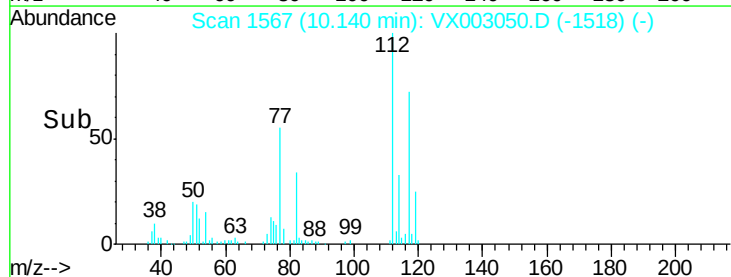
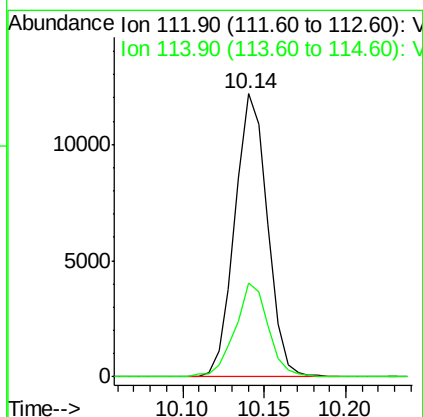
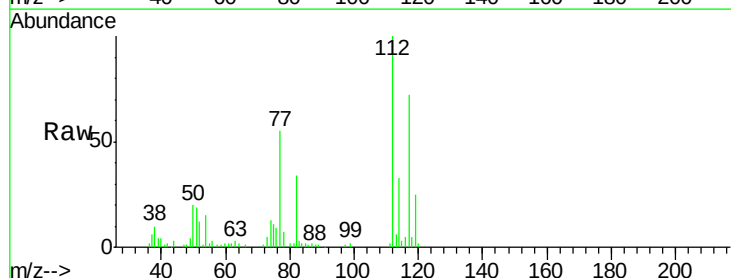
Instrument :
MSVOA_X
ClientSampleId :

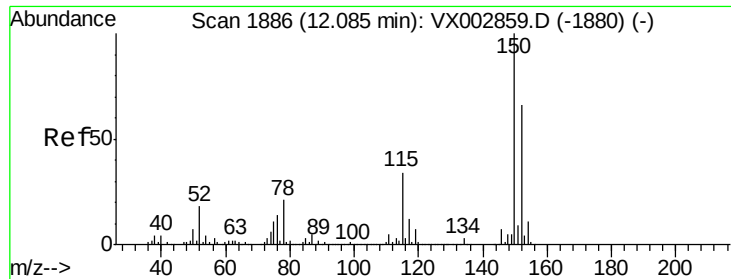
Tot Ion:117 Resp: 344083
Ion Ratio Lower Upper
117 100
82 54.6 45.0 67.4
119 32.3 25.8 38.6



#65
Chlorobenzene
Concen: 1.94 ug/l
RT: 10.14 min Scan# 1567
Delta R.T. -0.00 min
Lab File: VX003050.D
Acq: 30 Jun 2018 01:10

Tgt Ion:112 Resp: 16981
Ion Ratio Lower Upper
112 100
114 33.1 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: VX003050.D

Acq: 30 Jun 2018 01:10

Instrument :

MSVOA_X

ClientSampleId :

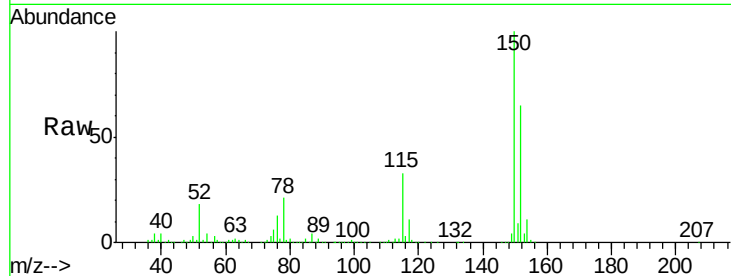
Tot Ion:152 Resp: 191731

Ion Ratio Lower Upper

152 100

115 54.8 40.1 120.2

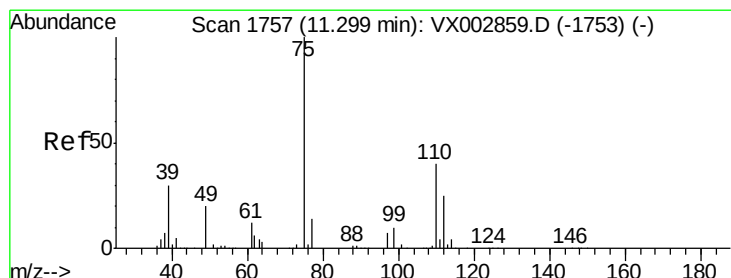
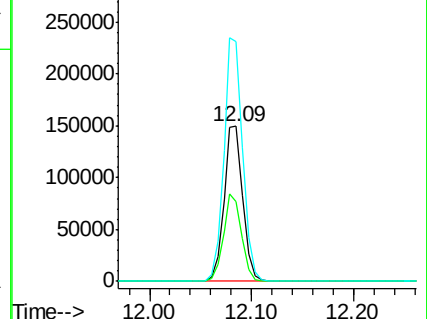
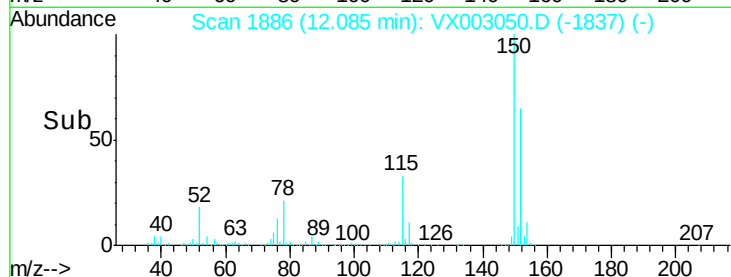
150 156.8 0.0 347.2



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: 26.73 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003050.D

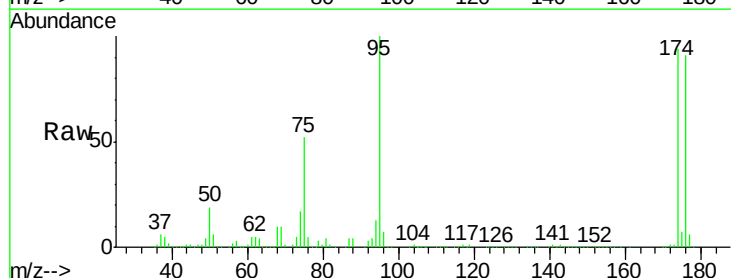
Acq: 30 Jun 2018 01:10

Tgt Ion: 75 Resp: 92827

Ion Ratio Lower Upper

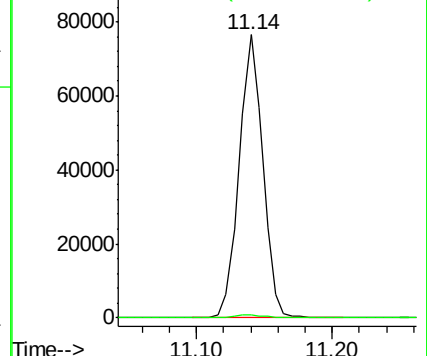
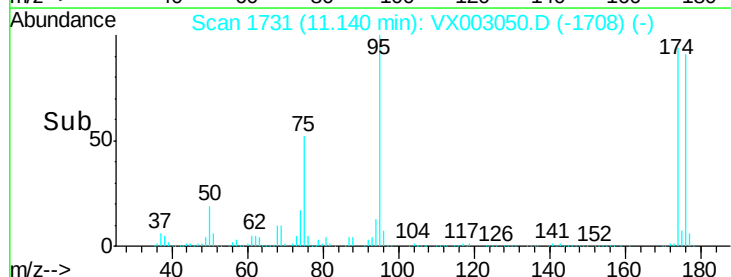
75 100

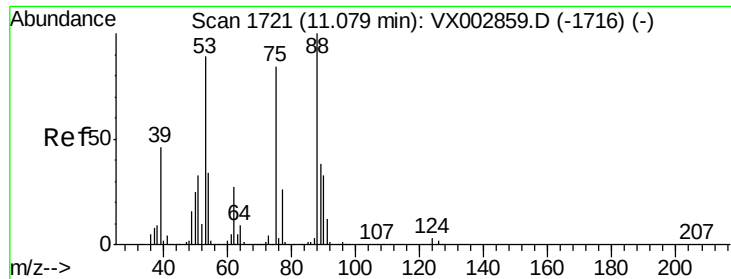
77 1.2 22.8 68.3#



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: 75.70 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003050.D

Acq: 30 Jun 2018 01:10

Instrument :

MSVOA_X

ClientSampled :

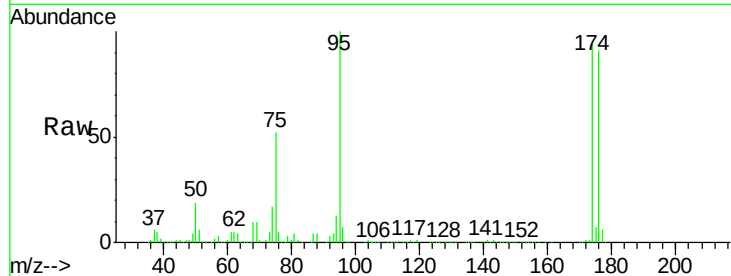
Tot Ion: 75 Resp: 92827

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

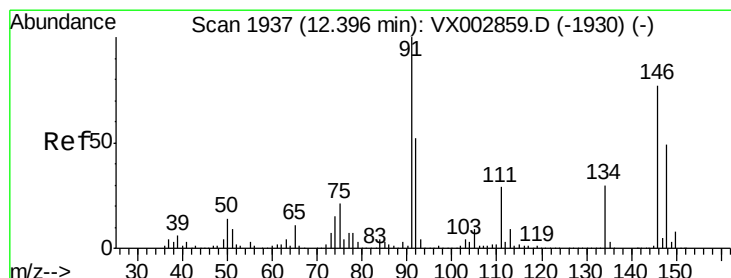
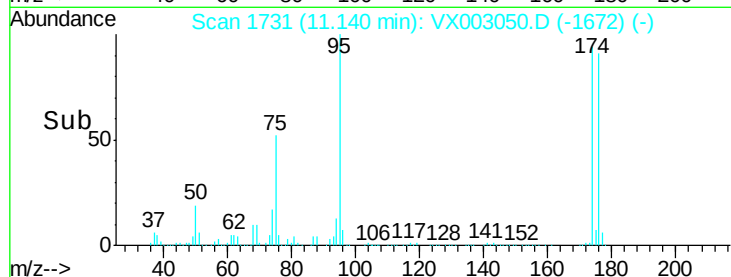
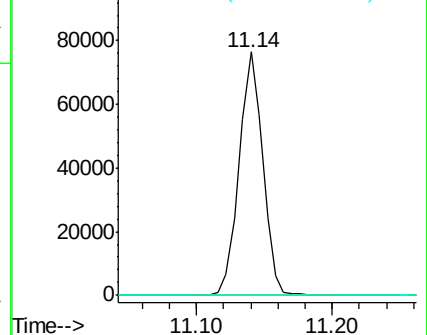
89 0.0 38.2 57.2#



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



#91

1,2-Dichlorobenzene

Concen: 0.35 ug/l

RT: 12.40 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VX003050.D

Acq: 30 Jun 2018 01:10

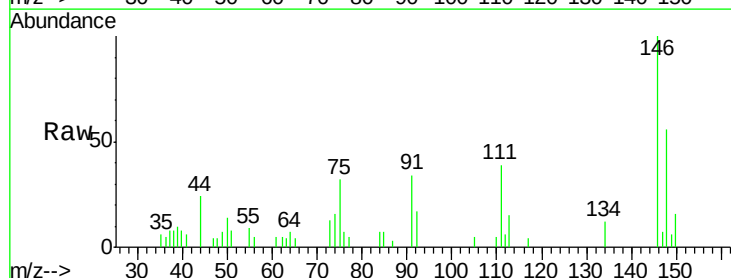
Tgt Ion: 146 Resp: 2339

Ion Ratio Lower Upper

146 100

111 39.2 19.4 58.1

148 61.4 31.7 95.1



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

