

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062118\
 Data File : VX002814.D
 Acq On : 22 Jun 2018 03:33
 Operator : JC/MD
 Sample : PB110441ZHE#17
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 22 05:22:24 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:37:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	247060	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	351818	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	332223	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	186606	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	173054	46.09	ug/l	0.00
Spiked Amount			Recovery	=	92.18%	
35) Dibromofluoromethane	5.51	113	135916	48.41	ug/l	0.00
Spiked Amount			Recovery	=	96.82%	
50) Toluene-d8	8.72	98	505173	47.38	ug/l	0.00
Spiked Amount			Recovery	=	94.76%	
62) 4-Bromofluorobenzene	11.14	95	178055	44.07	ug/l	0.00
Spiked Amount			Recovery	=	88.14%	

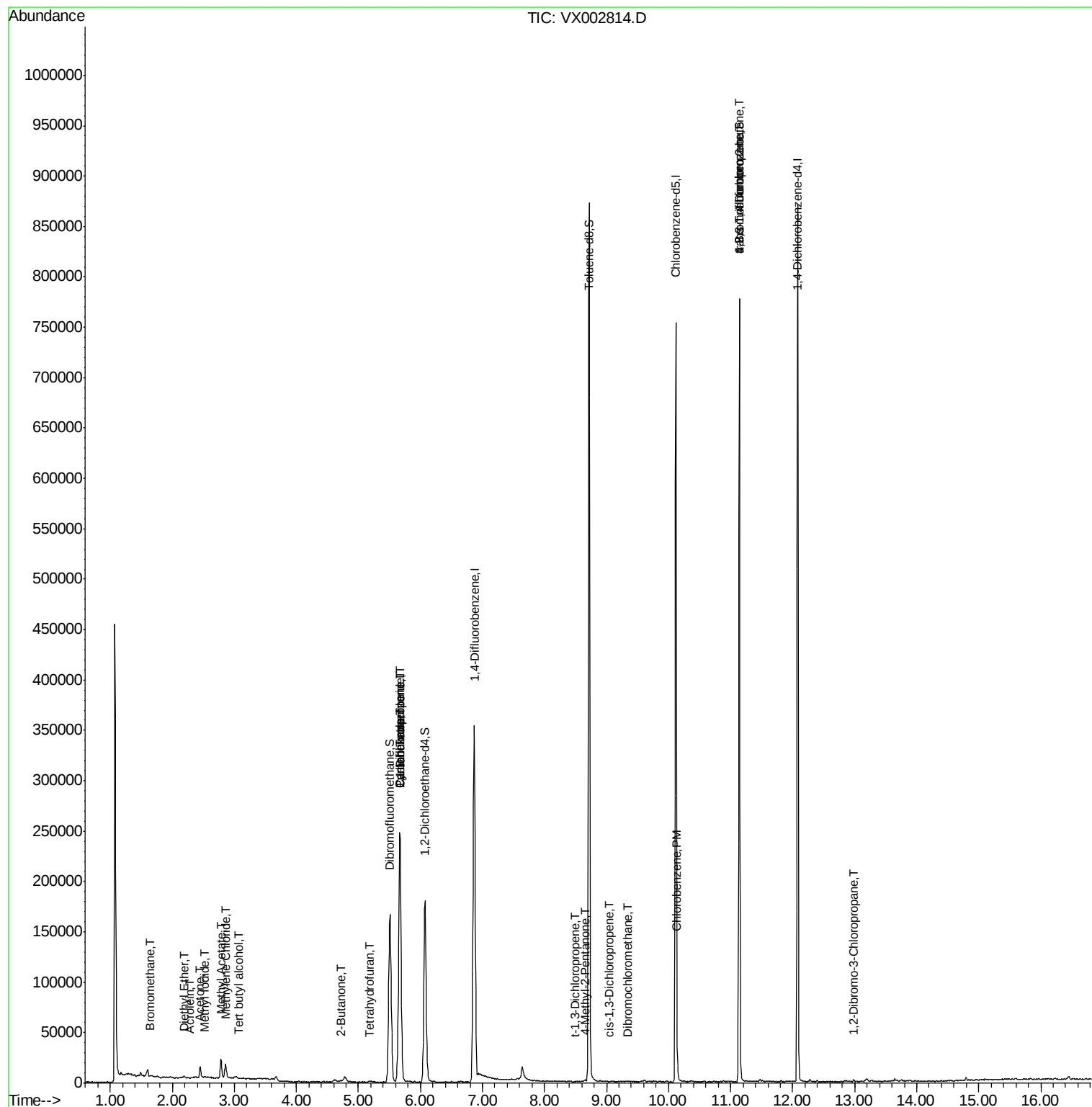
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	1013	0.52	ug/l #	66
8) Diethyl Ether	2.18	74	548	0.27	ug/l	68
10) Methyl Iodide	2.52	142	1161	5.44	ug/l #	89
11) Tert butyl alcohol	3.07	59	484	0.62	ug/l #	68
13) Acrolein	2.29	56	304	7.68	ug/l #	74
16) Acetone	2.45	43	13234	7.99	ug/l	97
18) Methyl Acetate	2.78	43	22658	5.13	ug/l	98
20) Methylene Chloride	2.86	84	6155	1.81	ug/l	95
25) 2-Butanone	4.72	43	1951	0.90	ug/l	98
29) Tetrahydrofuran	5.18	42	844	0.59	ug/l #	76
31) Cyclohexane	5.67	56	4946	1.12	ug/l #	10
36) 1,1-Dichloropropene	5.67	75	17427	4.66	ug/l #	51
38) Carbon Tetrachloride	5.67	117	23156	6.22	ug/l #	16
51) 4-Methyl-2-Pentanone	8.66	43	1356	0.30	ug/l	97
53) t-1,3-Dichloropropene	8.49	75	22	2.40	ug/l #	89
54) cis-1,3-Dichloropropene	9.05	75	80	3.23	ug/l #	32
60) Dibromochloromethane	9.34	129	90	3.79	ug/l #	11
65) Chlorobenzene	10.14	112	3057	0.37	ug/l	97
76) 1,2,3-Trichloropropane	11.14	75	93433	26.53	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	93433	81.98	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	12.98	75	287	0.37	ug/l #	1

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

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QLast Update : Sat Jun 16 01:37:33 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: VX002814.D

Acq: 22 Jun 2018 03:33

Instrument :

MSVOA_X

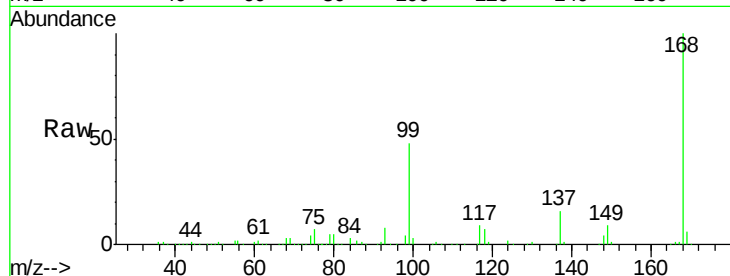
ClientSampleId :

Tot Ion:168 Resp: 247060

Ion Ratio Lower Upper

168 100

99 48.4 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

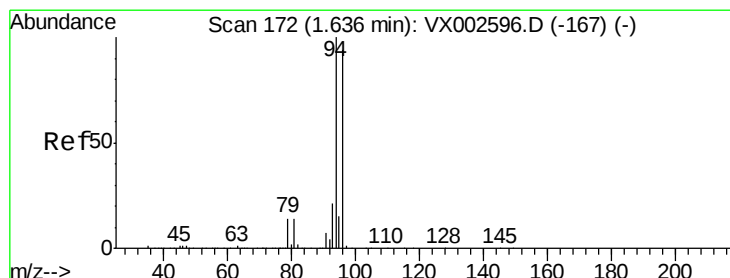
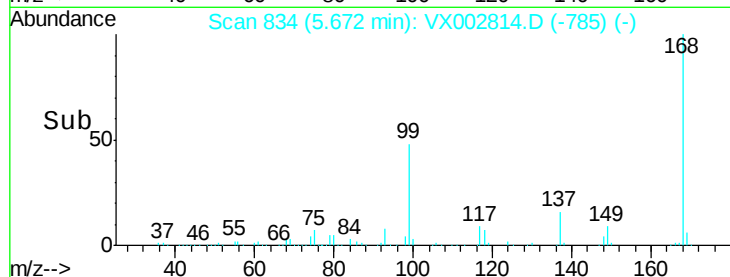
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.52 ug/l

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002814.D

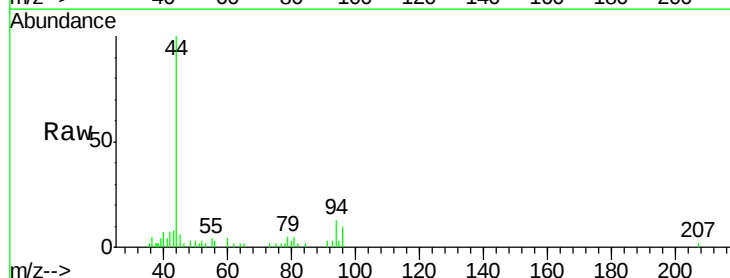
Acq: 22 Jun 2018 03:33

Tgt Ion: 94 Resp: 1013

Ion Ratio Lower Upper

94 100

96 61.1 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

500

400

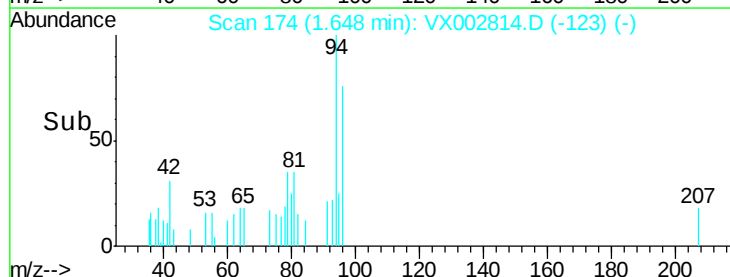
300

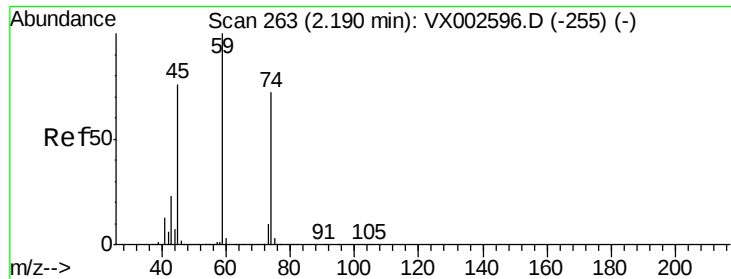
200

100

0

Time--> 1.60 1.65 1.70





#8

Diethyl Ether

Concen: 0.27 ug/l

RT: 2.18 min Scan# 262

Delta R.T. -0.01 min

Lab File: VX002814.D

Acq: 22 Jun 2018 03:33

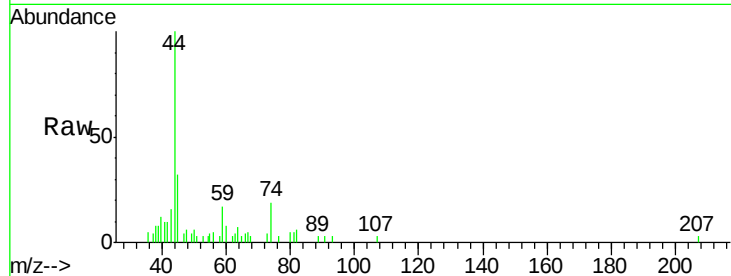
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 74 Resp: 548

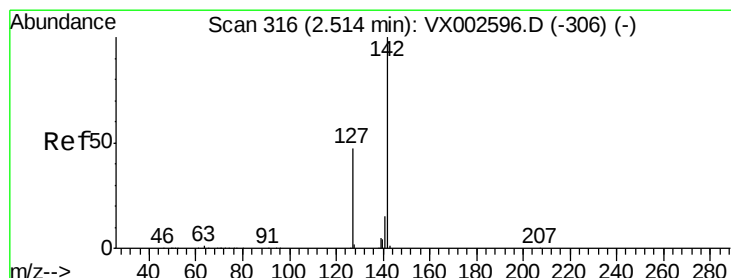
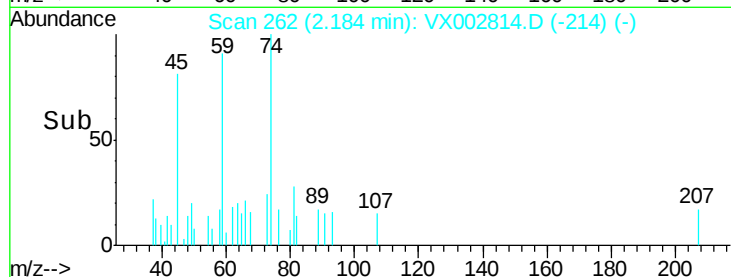
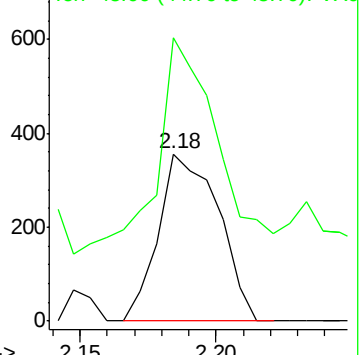
Ion Ratio Lower Upper

74 100

45 139.2 53.1 159.4



Abundance Ion 74.00 (73.70 to 74.70): VX0
Ion 45.00 (44.70 to 45.70): VX0



#10

Methyl Iodide

Concen: 5.44 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002814.D

Acq: 22 Jun 2018 03:33

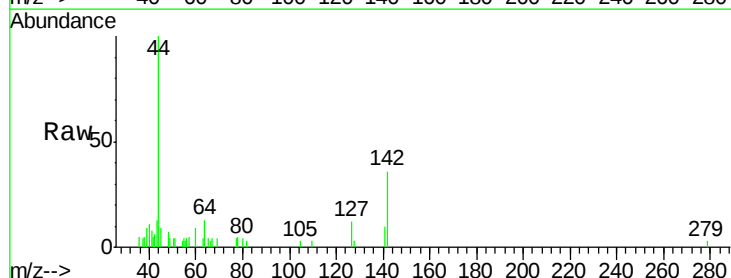
Tgt Ion: 142 Resp: 1161

Ion Ratio Lower Upper

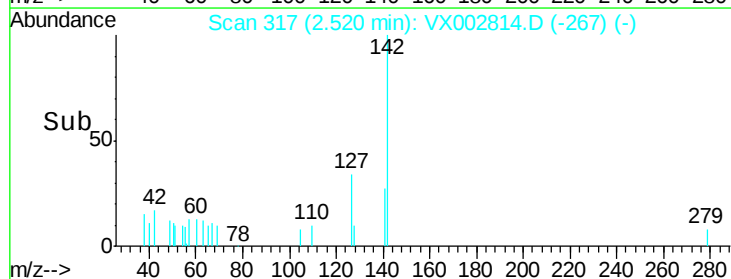
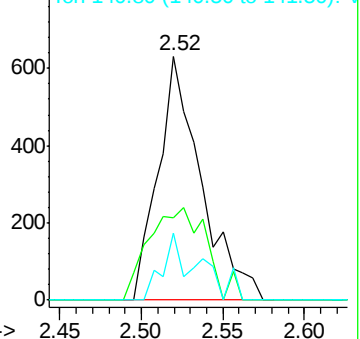
142 100

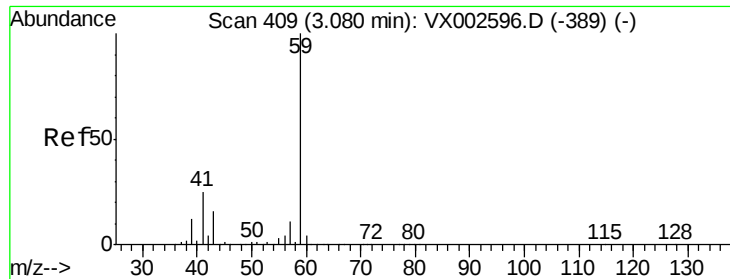
127 51.0 36.6 55.0

141 23.2 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

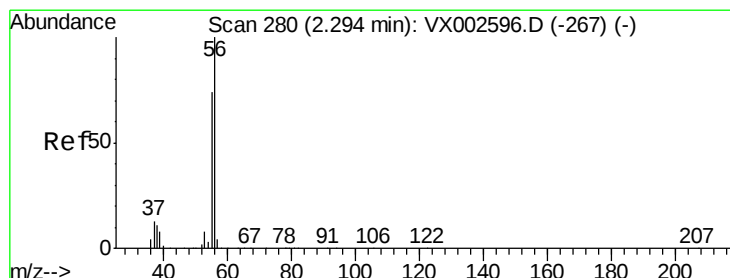
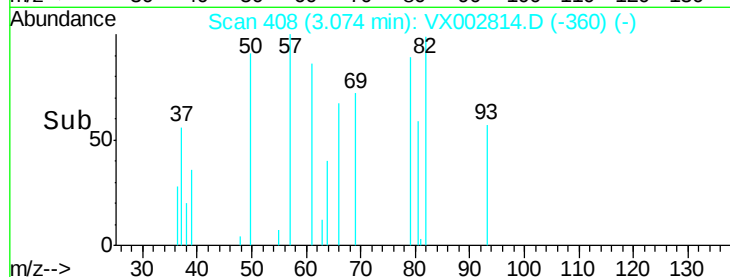
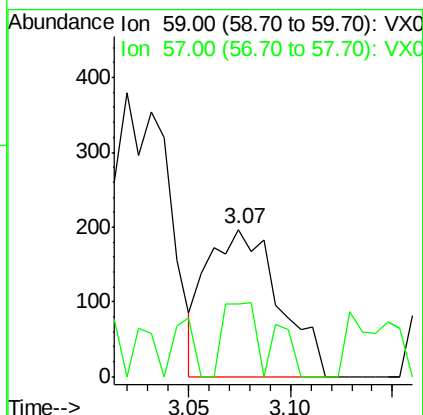
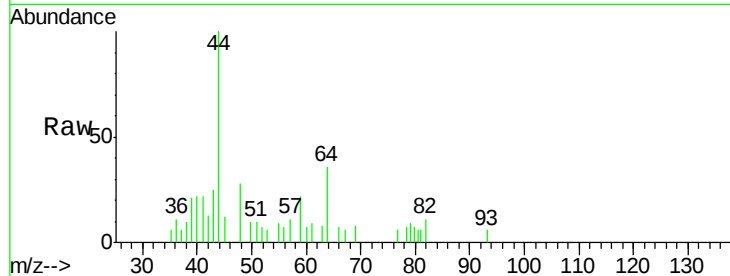




#11
Tert butyl alcohol
Concen: 0.62 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX002814.D
Acq: 22 Jun 2018 03:33

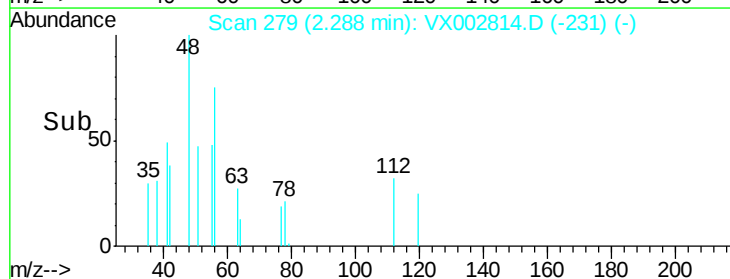
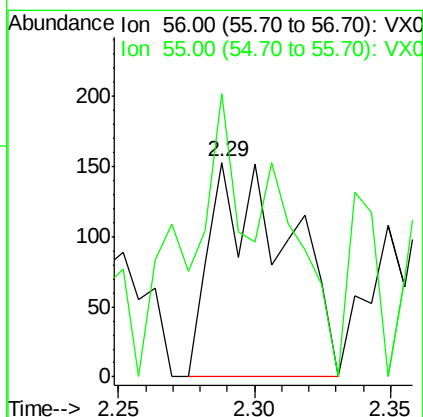
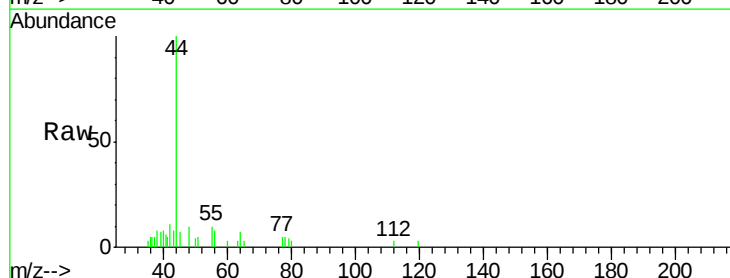
Instrument :
MSVOA_X
ClientSampled :

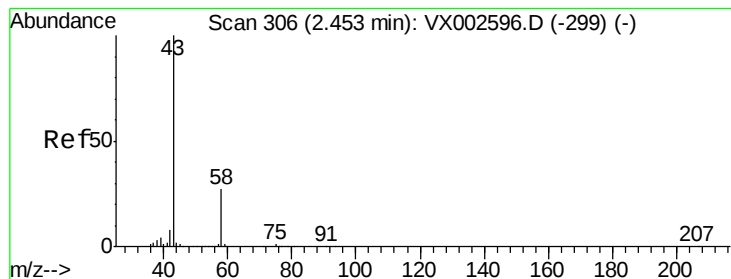
Tot Ion: 59 Resp: 484
Ion Ratio Lower Upper
59 100
57 22.1 8.2 12.2#



#13
Acrolein
Concen: 7.68 ug/l
RT: 2.29 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX002814.D
Acq: 22 Jun 2018 03:33

Tgt Ion: 56 Resp: 304
Ion Ratio Lower Upper
56 100
55 92.8 57.0 85.4#





#16

Acetone

Concen: 7.99 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002814.D

Acq: 22 Jun 2018 03:33

Instrument :

MSVOA_X

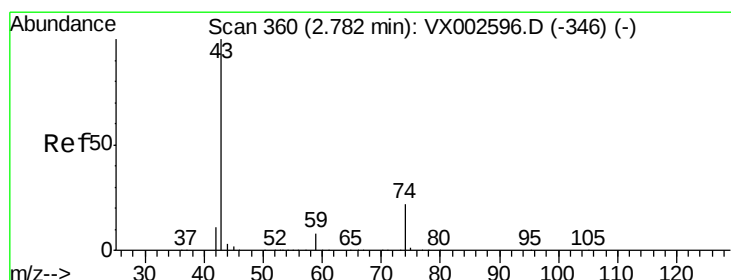
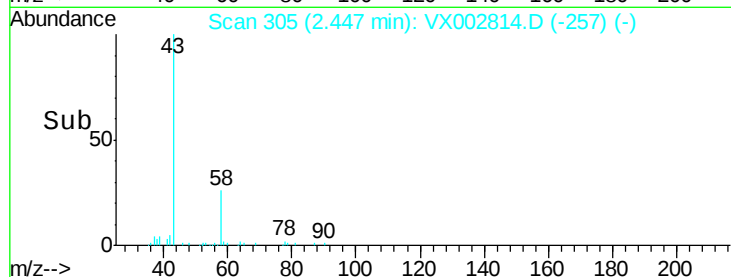
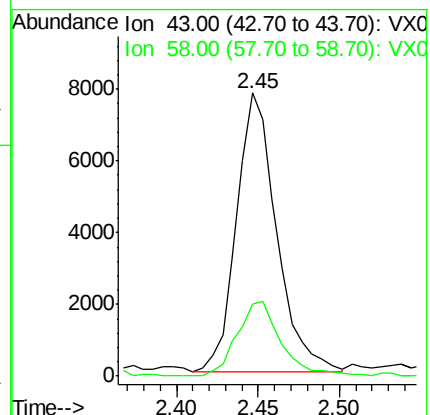
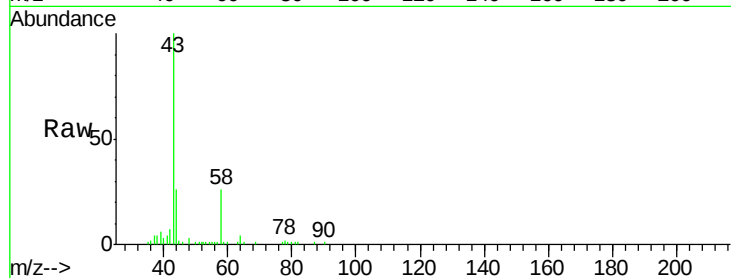
ClientSampleId :

Tot Ion: 43 Resp: 13234

Ion Ratio Lower Upper

43 100

58 26.0 22.1 33.1



#18

Methyl Acetate

Concen: 5.13 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX002814.D

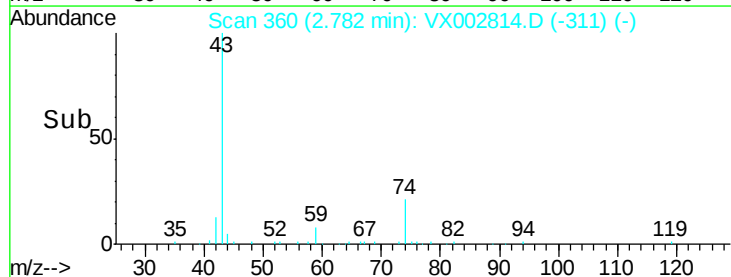
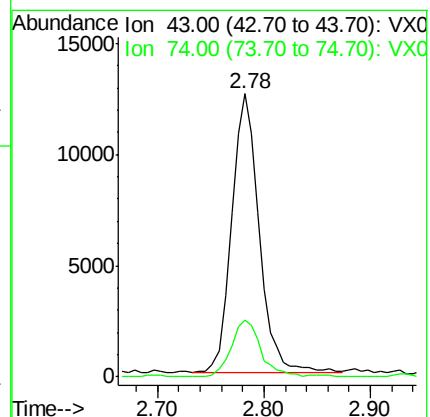
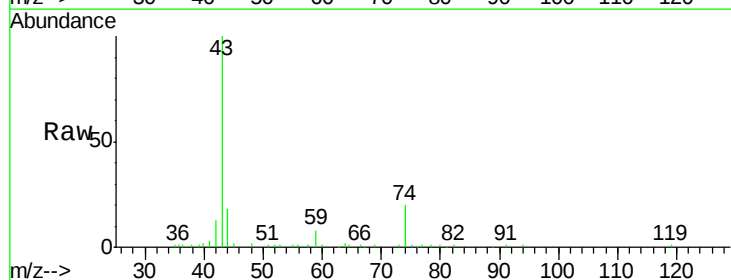
Acq: 22 Jun 2018 03:33

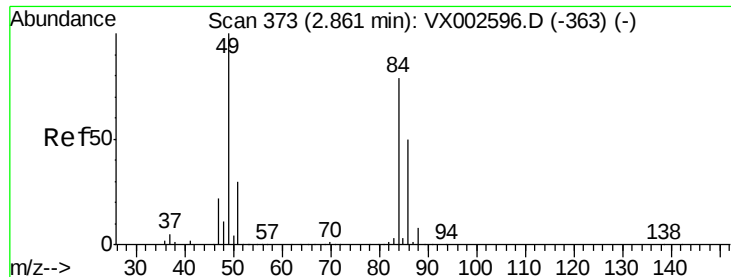
Tgt Ion: 43 Resp: 22658

Ion Ratio Lower Upper

43 100

74 21.9 16.7 25.1

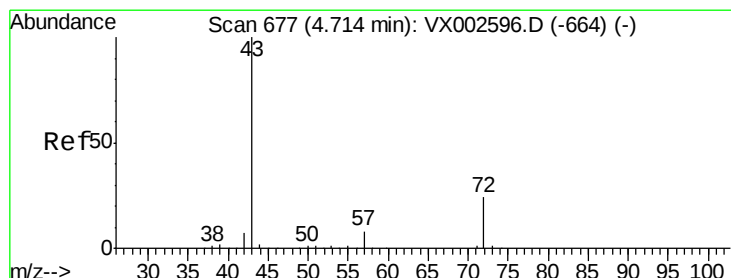
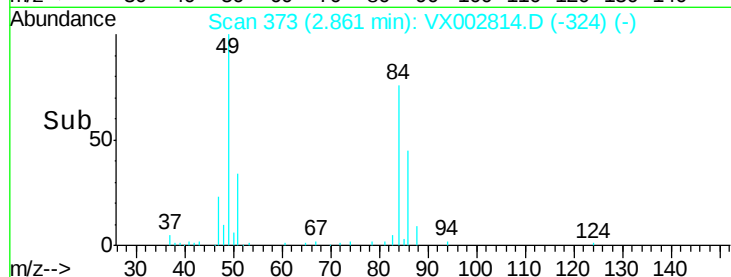
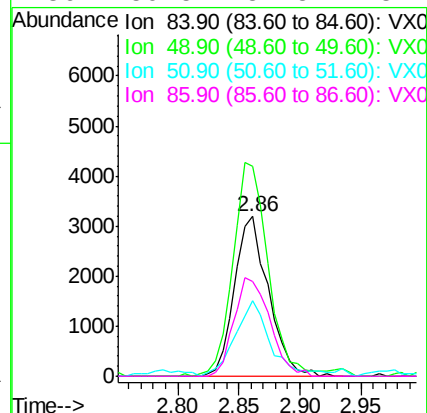
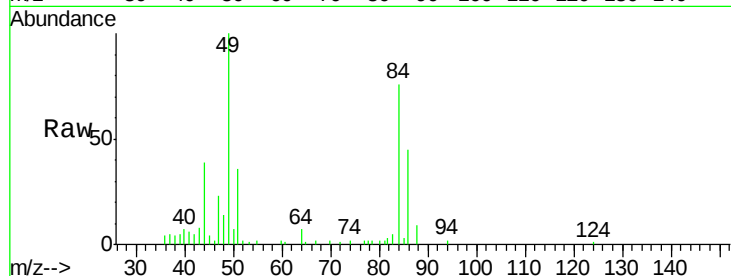




#20
Methvlene Chloride
Concen: 1.81 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002814.D
Acq: 22 Jun 2018 03:33

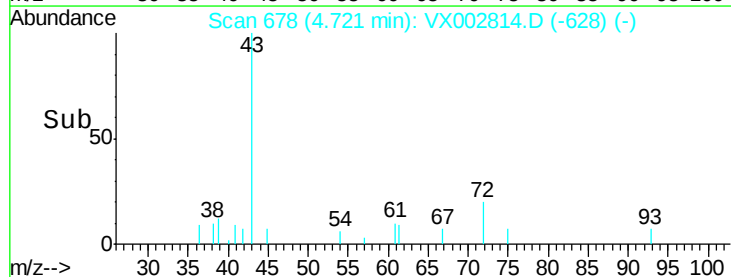
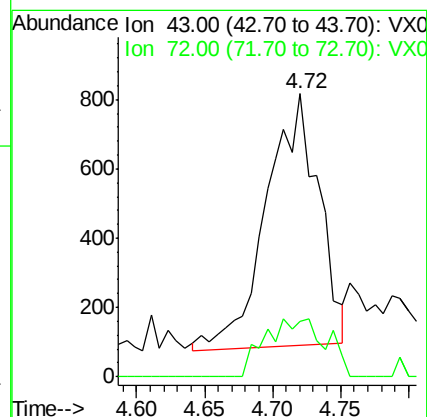
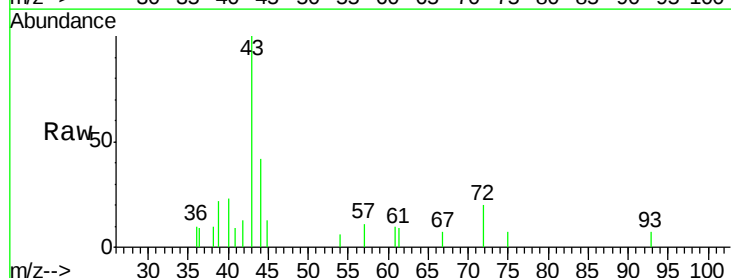
Instrument :
MSVOA_X
ClientSampleId :

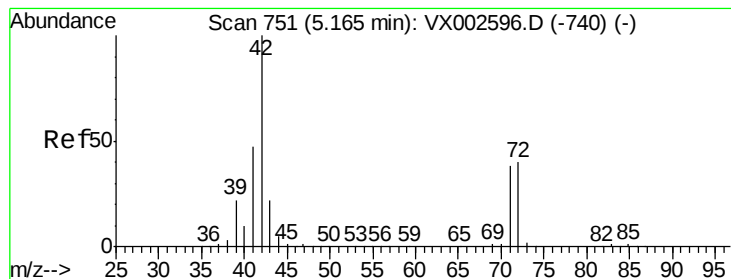
Tot Ion: 84 Resp: 6155
Ion Ratio Lower Upper
84 100
49 131.6 107.8 161.6
51 44.9 32.8 49.2
86 59.5 52.5 78.7



#25
2-Butanone
Concen: 0.90 ug/l
RT: 4.72 min Scan# 678
Delta R.T. 0.01 min
Lab File: VX002814.D
Acq: 22 Jun 2018 03:33

Tgt Ion: 43 Resp: 1951
Ion Ratio Lower Upper
43 100
72 22.4 18.5 27.7





#29

Tetrahydrofuran

Concen: 0.59 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.01 min

Lab File: VX002814.D

Acq: 22 Jun 2018 03:33

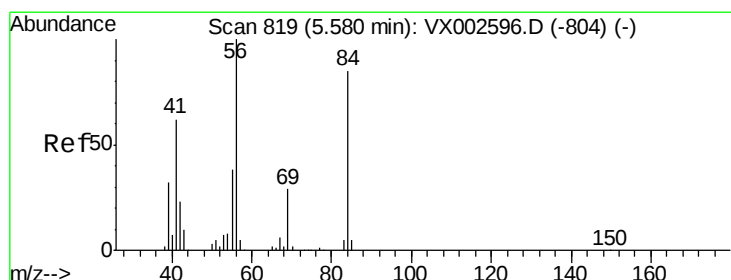
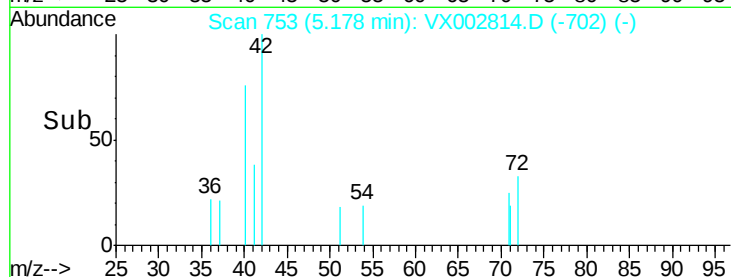
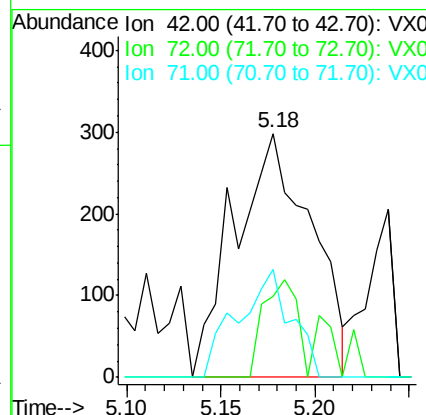
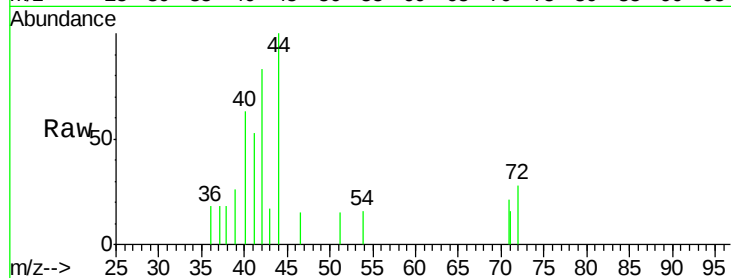
Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 42 Resp: 844

Ion	Ratio	Lower	Upper
42	100		
72	17.5	32.0	48.0#
71	30.6	30.1	45.1



#31

Cyclohexane

Concen: 1.12 ug/l

RT: 5.67 min Scan# 833

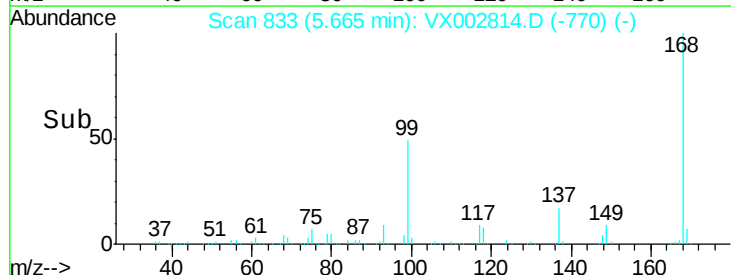
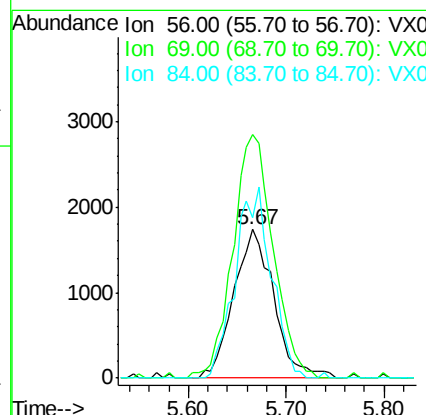
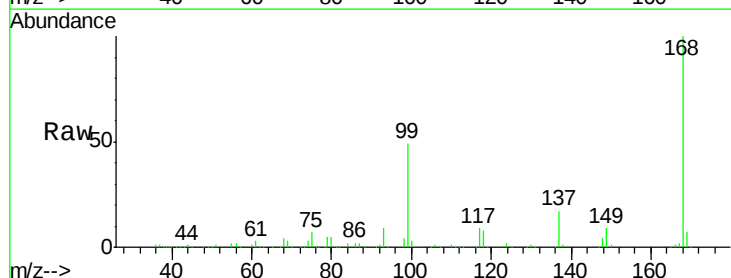
Delta R.T. 0.09 min

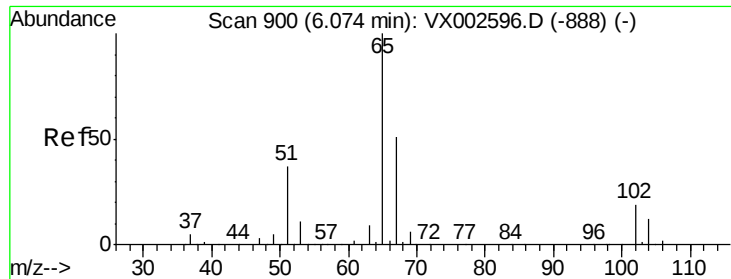
Lab File: VX002814.D

Acq: 22 Jun 2018 03:33

Tgt Ion: 56 Resp: 4946

Ion	Ratio	Lower	Upper
56	100		
69	163.7	23.7	35.5#
84	107.6	64.1	96.1#

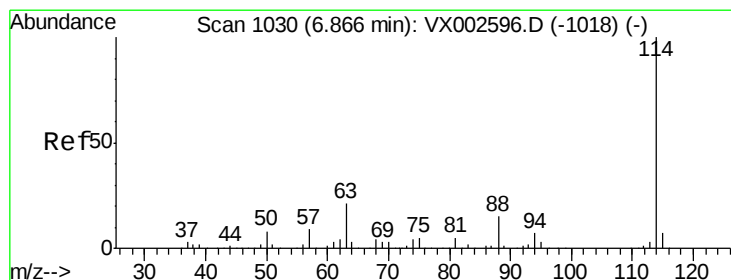
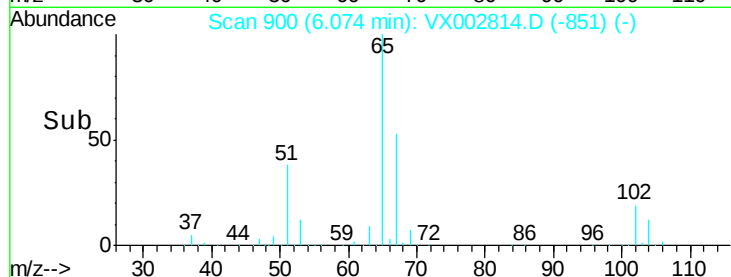
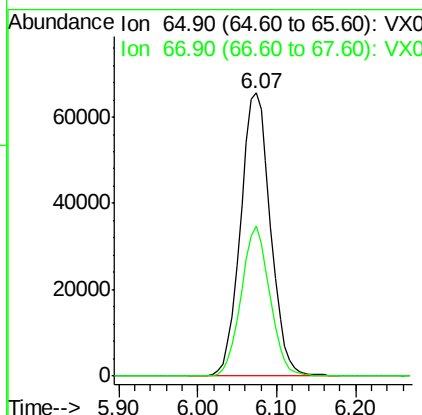
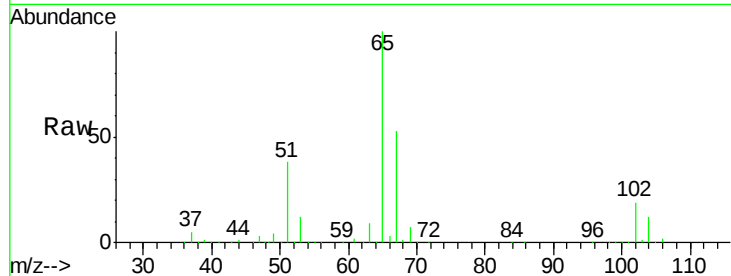




#33
 1,2-Dichloroethane-d4
 Concen: 46.09 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX002814.D
 Acq: 22 Jun 2018 03:33

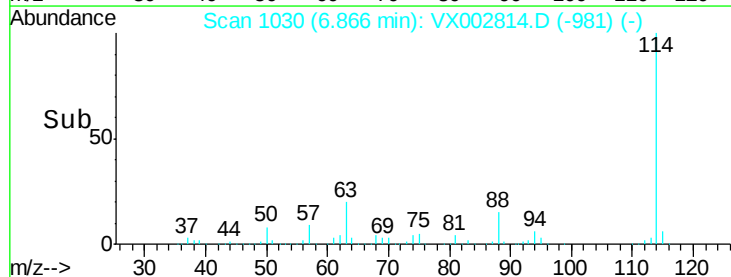
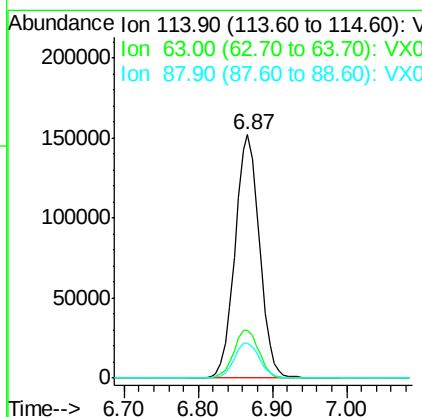
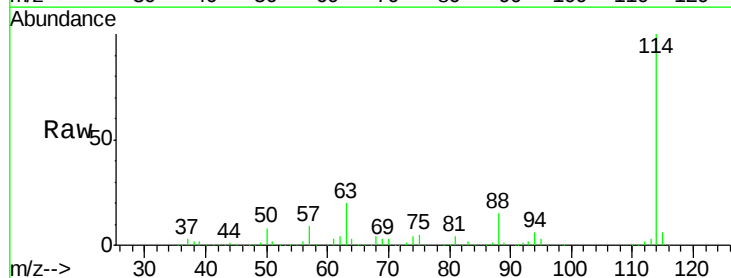
Instrument :
 MSVOA_X
 ClientSampleId :

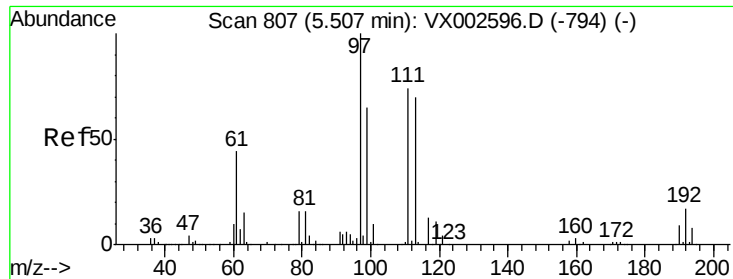
Tot Ion: 65 Resp: 173054
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX002814.D
 Acq: 22 Jun 2018 03:33

Tgt Ion: 114 Resp: 351818
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 41.4
 88 14.6 0.0 30.0

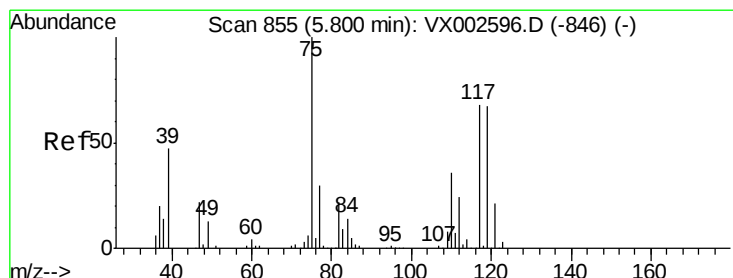
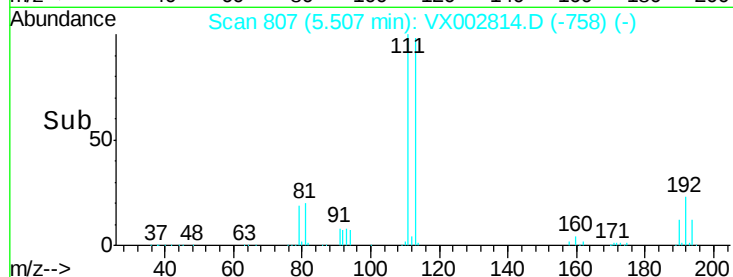
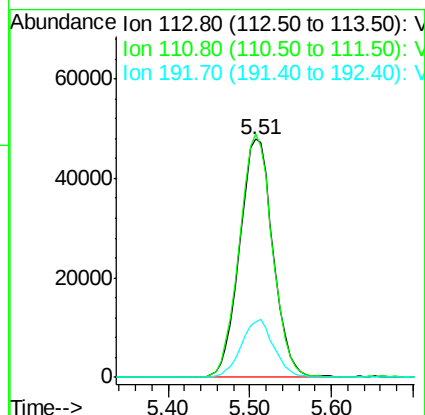
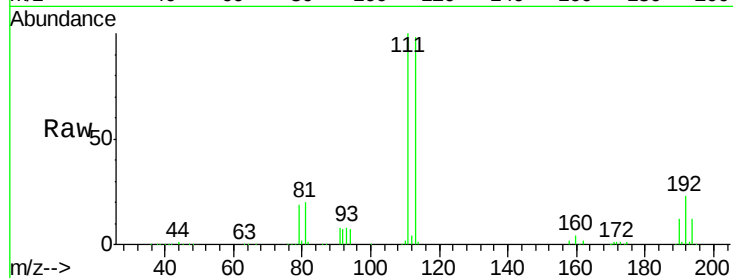




#35
Dibromofluoromethane
Concen: 48.41 ug/l
RT: 5.51 min Scan# 807
Delta R.T. 0.00 min
Lab File: VX002814.D
Acq: 22 Jun 2018 03:33

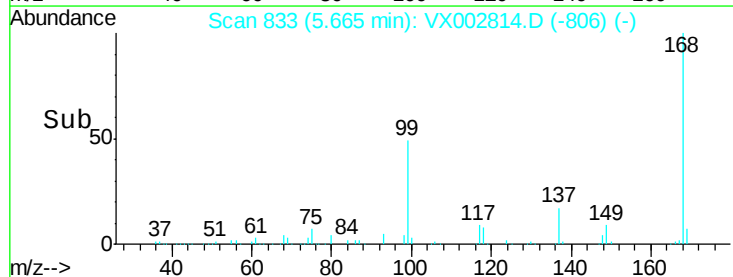
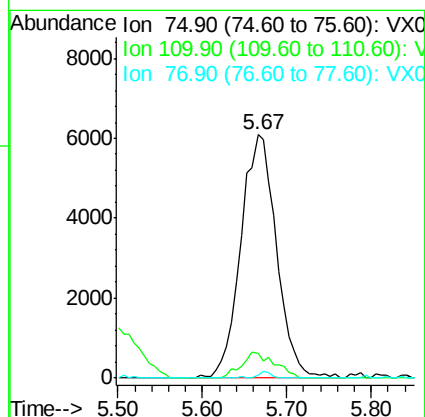
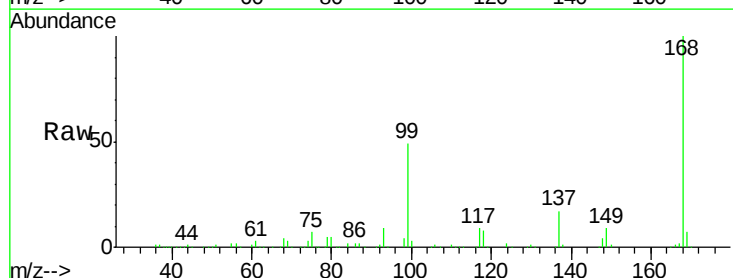
Instrument :
MSVOA_X
ClientSampleId :

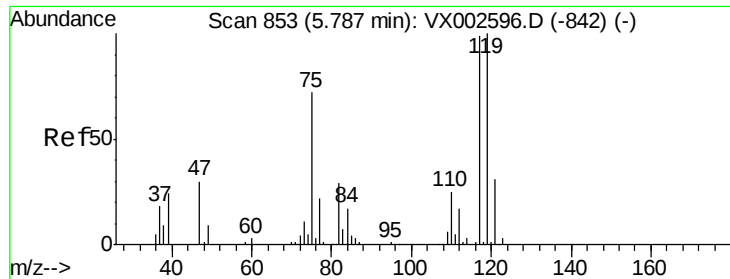
Tot Ion:113 Resp: 135916
Ion Ratio Lower Upper
113 100
111 101.2 81.4 122.0
192 23.7 19.1 28.7



#36
1,1-Dichloropropene
Concen: 4.66 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.13 min
Lab File: VX002814.D
Acq: 22 Jun 2018 03:33

Tgt Ion: 75 Resp: 17427
Ion Ratio Lower Upper
75 100
110 9.9 18.1 54.4#
77 0.9 24.3 36.5#

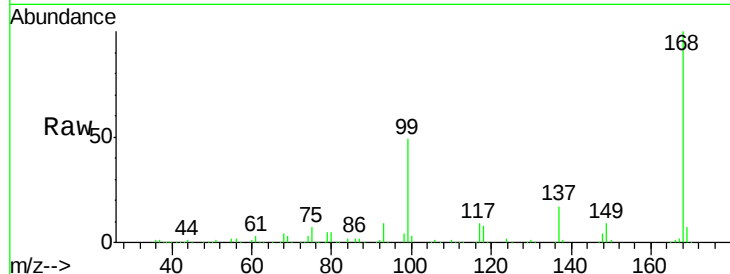




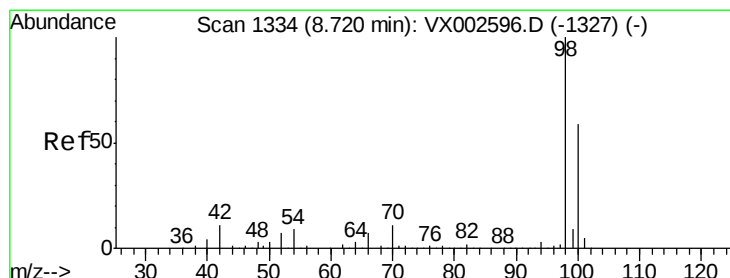
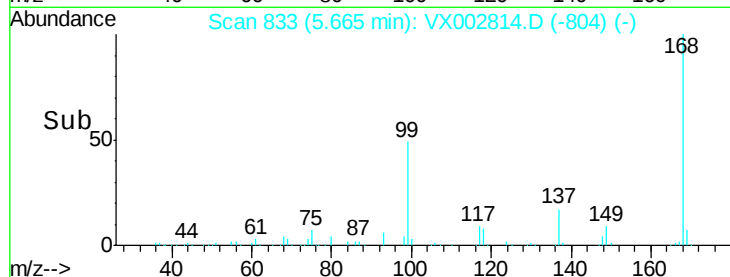
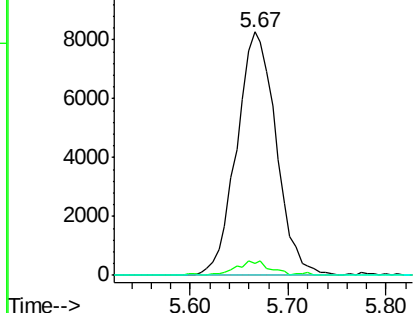
#38
Carbon Tetrachloride
Concen: 6.22 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.12 min
Lab File: VX002814.D
Acq: 22 Jun 2018 03:33

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 23156
Ion Ratio Lower Upper
117 100
119 5.1 77.4 116.0#
121 0.0 24.4 36.6#

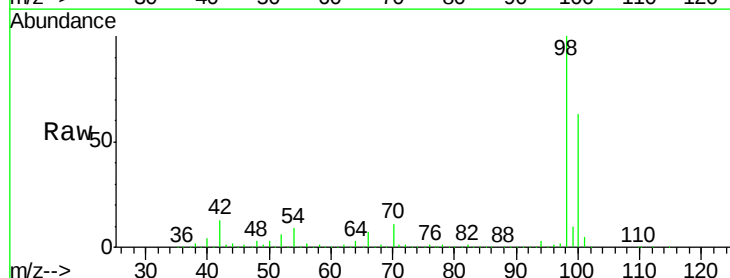


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

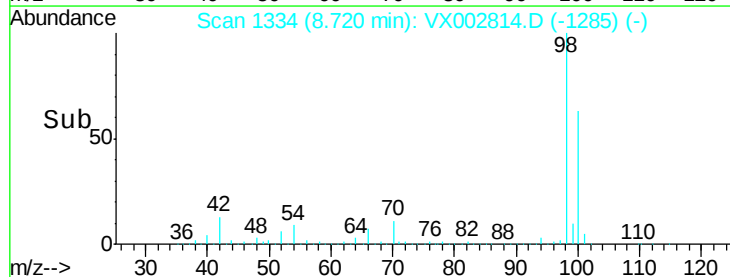
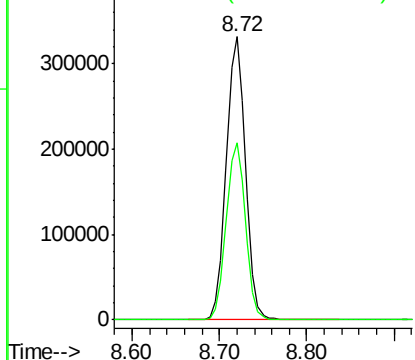


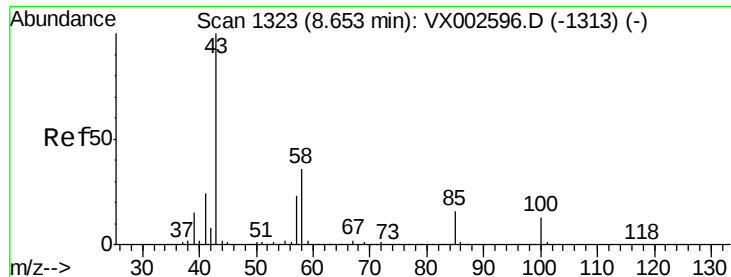
#50
Toluene-d8
Concen: 47.38 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002814.D
Acq: 22 Jun 2018 03:33

Tgt Ion: 98 Resp: 505173
Ion Ratio Lower Upper
98 100
100 63.1 50.9 76.3



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





#51

4-Methyl-2-Pentanone

Concen: 0.30 ug/l

RT: 8.66 min Scan# 1324

Delta R.T. 0.01 min

Lab File: VX002814.D

Acq: 22 Jun 2018 03:33

Instrument :

MSVOA_X

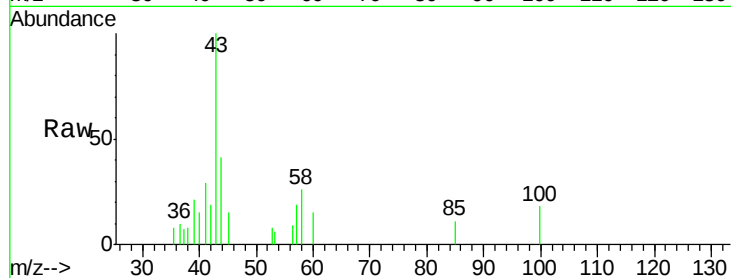
ClientSampleId :

Tot Ion: 43 Resp: 1356

Ion Ratio Lower Upper

43 100

58 37.2 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

3000

2500

2000

1500

1000

500

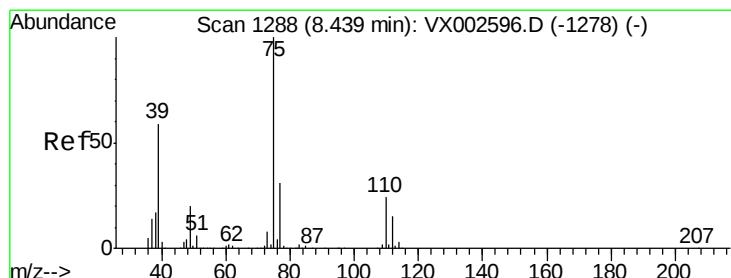
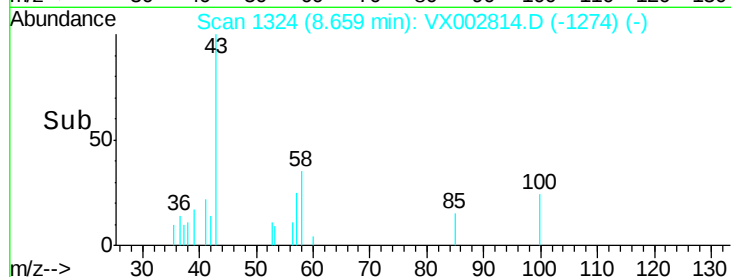
0

8.60

8.65

8.70

Time-->



#53

t-1,3-Dichloropropene

Concen: 2.40 ug/l

RT: 8.49 min Scan# 1297

Delta R.T. 0.06 min

Lab File: VX002814.D

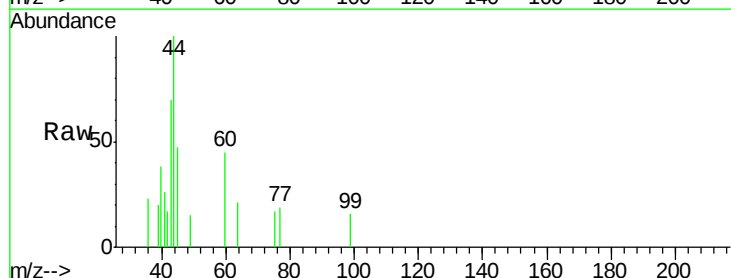
Acq: 22 Jun 2018 03:33

Tgt Ion: 75 Resp: 22

Ion Ratio Lower Upper

75 100

77 25.4 25.4 38.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

80

60

40

20

0

8.47

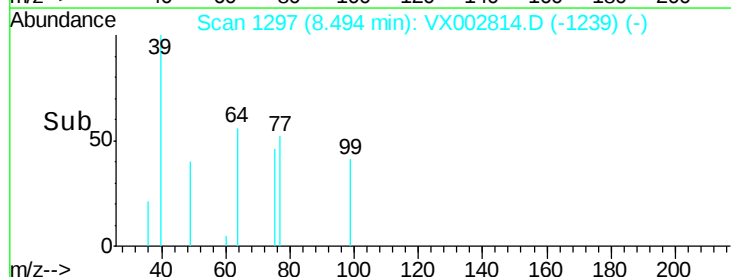
8.48

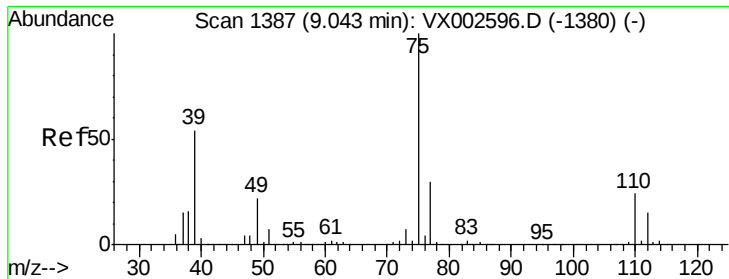
8.49

8.50

8.51

Time-->



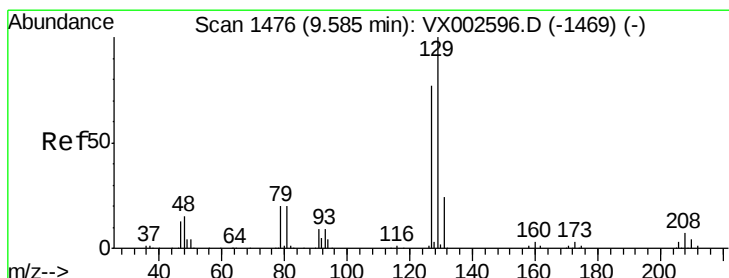
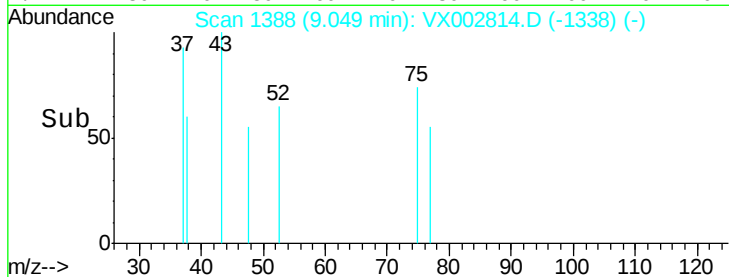
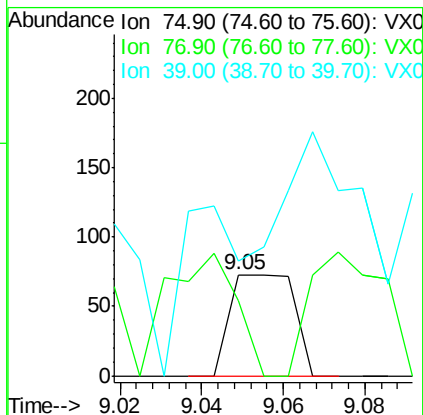
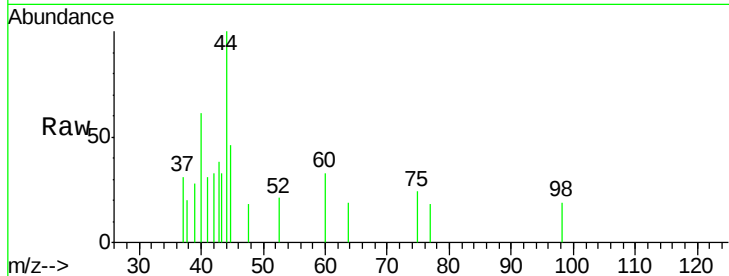


#54

cis-1,3-Dichloropropene
Concen: 3.23 ug/l
RT: 9.05 min Scan# 1388
Delta R.T. 0.01 min
Lab File: VX002814.D
Acq: 22 Jun 2018 03:33

Instrument :
MSVOA_X
ClientSampleId :

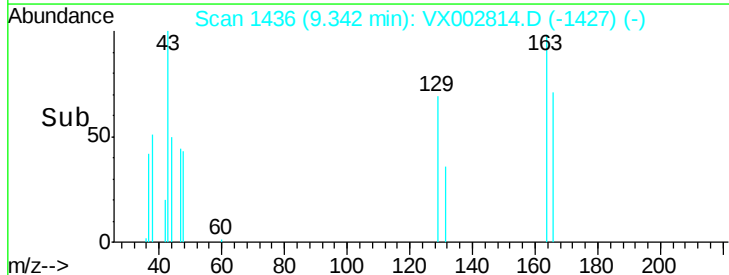
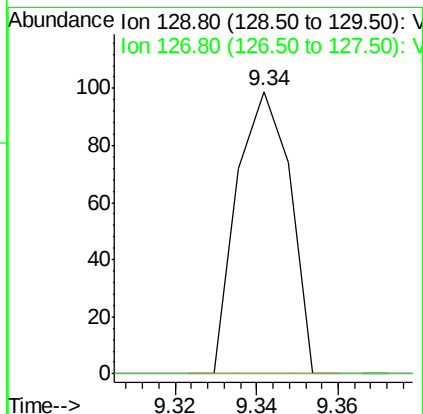
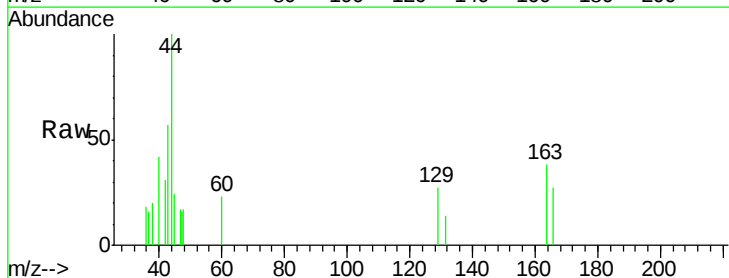
Tot Ion: 75 Resp: 80
Ion Ratio Lower Upper
75 100
77 0.0 24.8 37.2#
39 0.0 42.4 63.6#

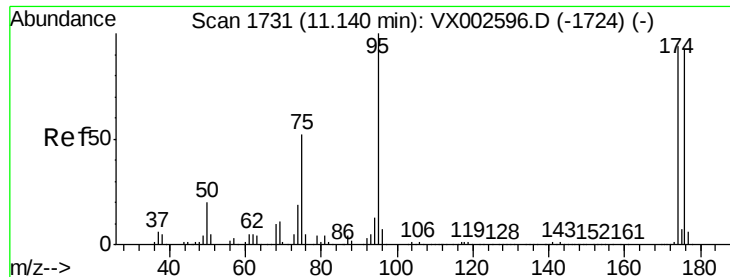


#60

Dibromochloromethane
Concen: 3.79 ug/l
RT: 9.34 min Scan# 1436
Delta R.T. -0.24 min
Lab File: VX002814.D
Acq: 22 Jun 2018 03:33

Tgt Ion:129 Resp: 90
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.3#

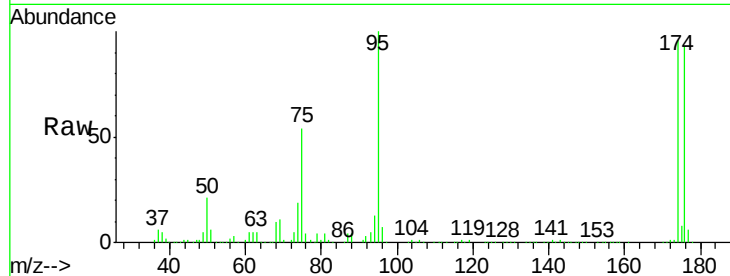




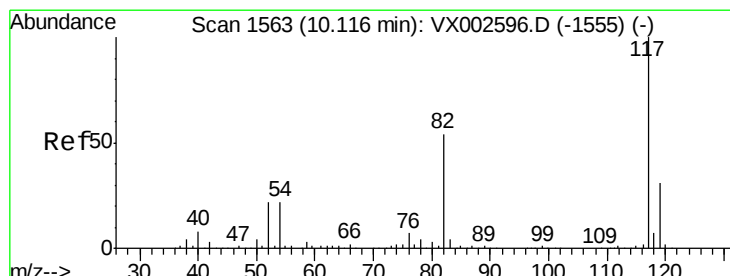
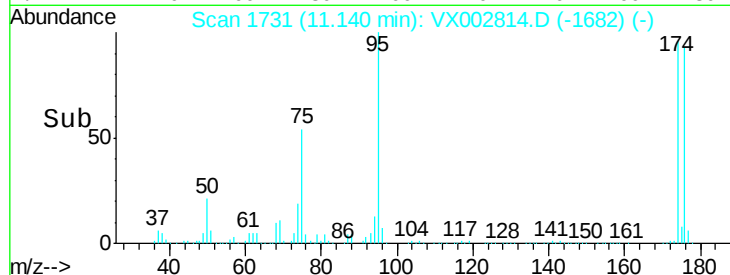
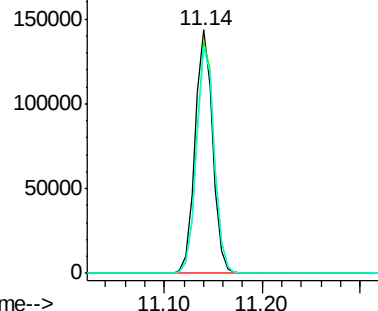
#62
4-Bromofluorobenzene
Concen: 44.07 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002814.D
Acq: 22 Jun 2018 03:33

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 95 Resp: 178055
Ion Ratio Lower Upper
95 100
174 96.6 0.0 187.4
176 93.7 0.0 181.0

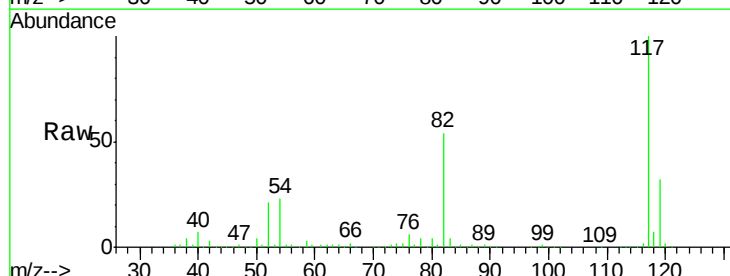


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

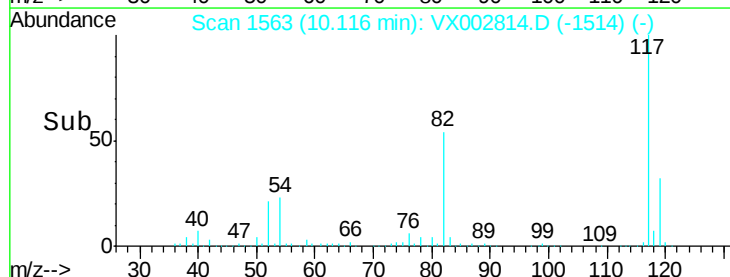
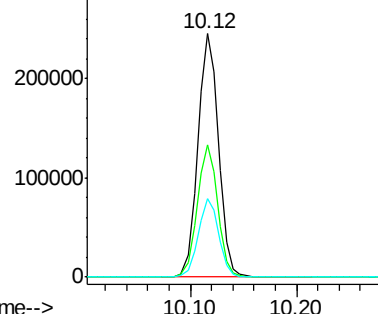


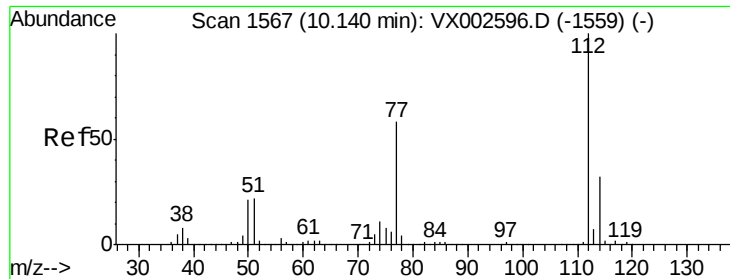
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002814.D
Acq: 22 Jun 2018 03:33

Tgt Ion: 117 Resp: 332223
Ion Ratio Lower Upper
117 100
82 54.4 45.0 67.4
119 32.2 25.8 38.6



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





#65

Chlorobenzene

Concen: 0.37 ug/l

RT: 10.14 min Scan# 1567

Delta R.T. 0.00 min

Lab File: VX002814.D

Acq: 22 Jun 2018 03:33

Instrument :

MSVOA_X

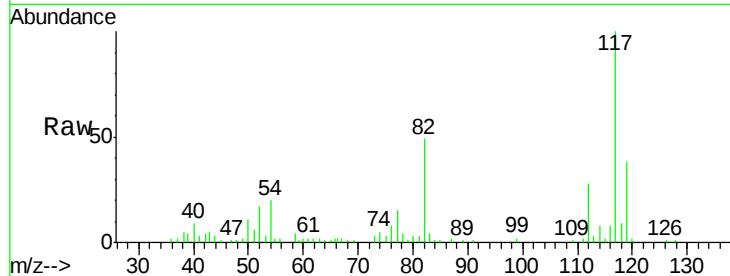
ClientSampled :

Tot Ion:112 Resp: 3057

Ion Ratio Lower Upper

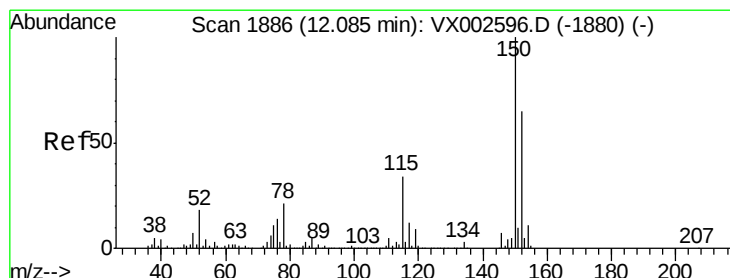
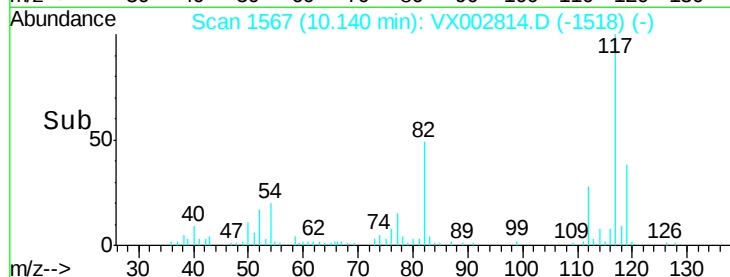
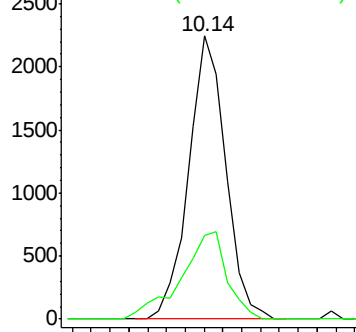
112 100

114 29.7 25.3 37.9



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX002814.D

Acq: 22 Jun 2018 03:33

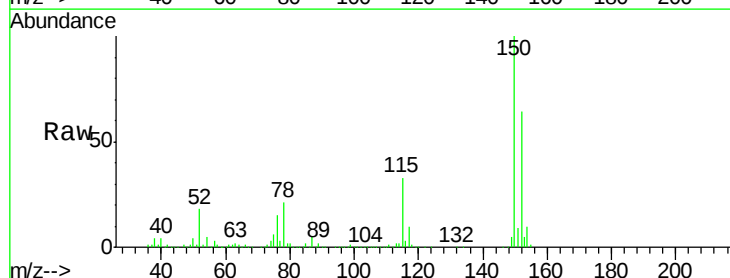
Tgt Ion:152 Resp: 186606

Ion Ratio Lower Upper

152 100

115 54.1 40.1 120.2

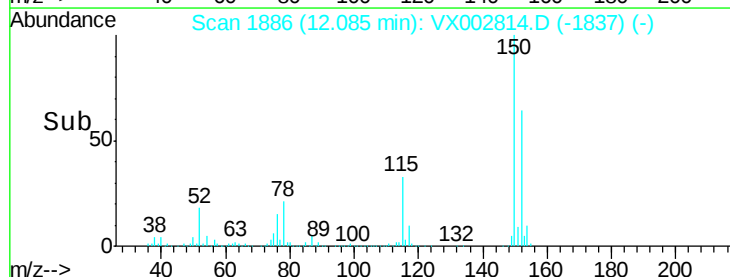
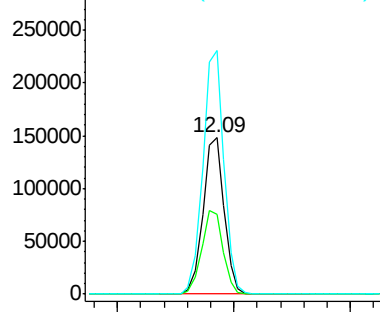
150 155.6 0.0 347.2

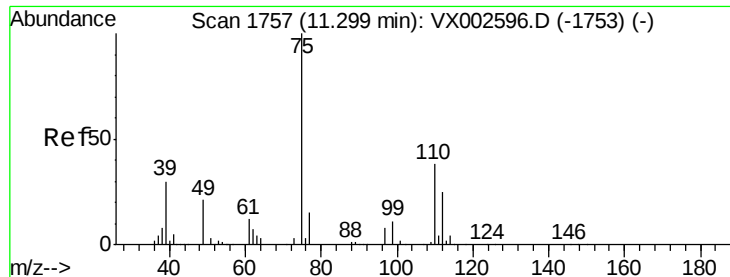


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

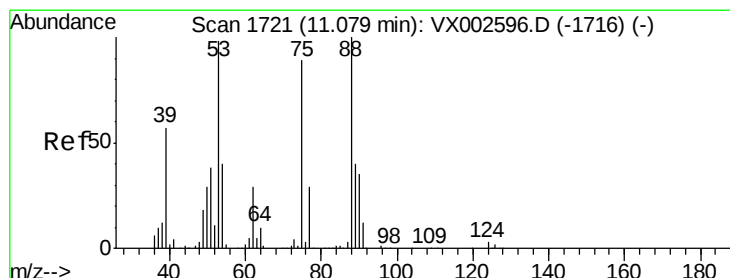
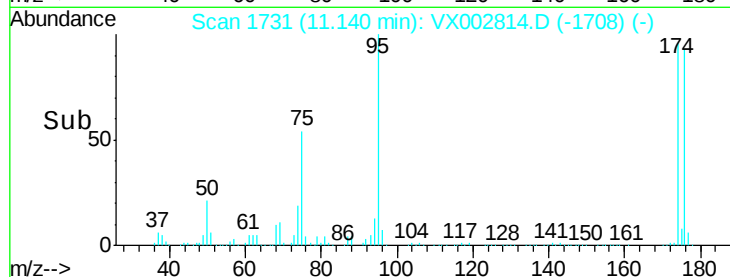
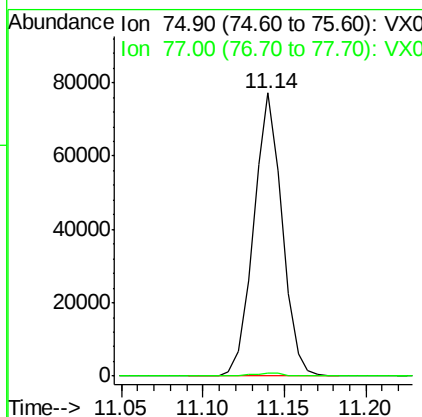
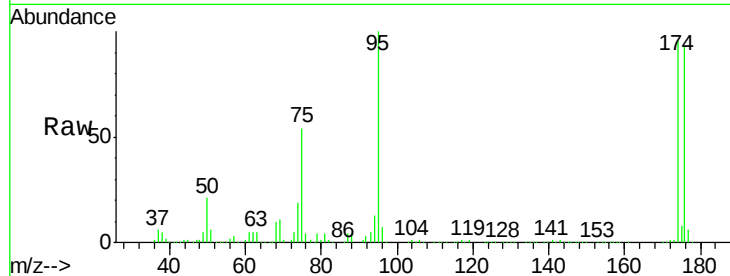




#76
 1,2,3-Trichloropropane
 Concen: 26.53 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX002814.D
 Acq: 22 Jun 2018 03:33

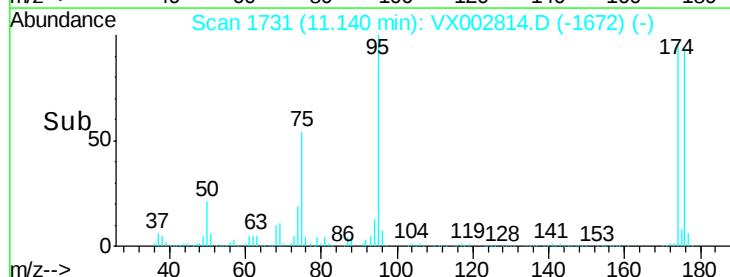
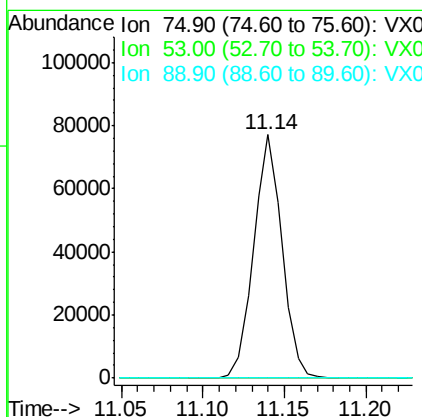
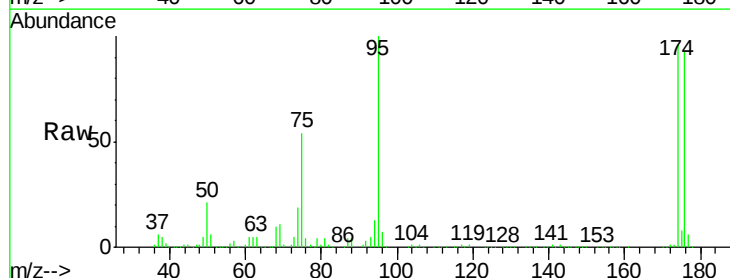
Instrument :
 MSVOA_X
 ClientSampled :

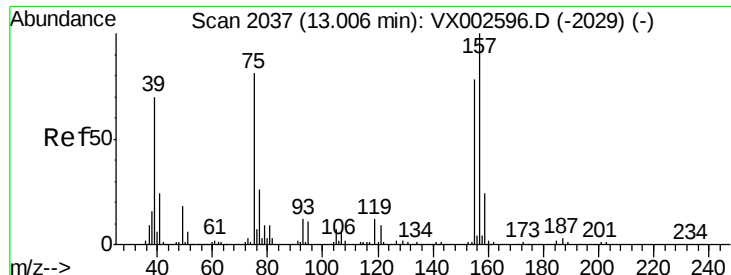
Tot Ion: 75 Resp: 93433
 Ion Ratio Lower Upper
 75 100
 77 1.3 22.8 68.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 81.98 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002814.D
 Acq: 22 Jun 2018 03:33

Tgt Ion: 75 Resp: 93433
 Ion Ratio Lower Upper
 75 100
 53 0.2 86.8 130.2#
 89 0.1 38.2 57.2#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.37 ug/l

RT: 12.98 min Scan# 2033

Delta R.T. -0.02 min

Lab File: VX002814.D

Acq: 22 Jun 2018 03:33

Instrument :

MSVOA_X

ClientSampleId :

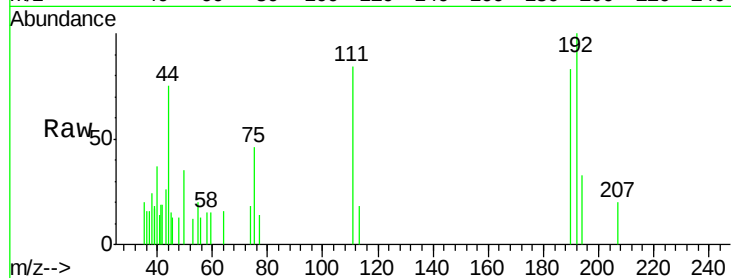
Tot Ion: 75 Resp: 287

Ion Ratio Lower Upper

75 100

155 0.0 45.8 137.4#

157 0.0 60.1 180.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

