

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062118\
 Data File : VX002811.D
 Acq On : 22 Jun 2018 02:14
 Operator : JC/MD
 Sample : PB110441ZHE#14
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 22 05:21:43 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	226353	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	315201	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	294061	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	167252	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	154981	45.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.12%	
35) Dibromofluoromethane	5.51	113	122391	48.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.30%	
50) Toluene-d8	8.72	98	454025	47.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.06%	
62) 4-Bromofluorobenzene	11.14	95	156651	43.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.56%	

Target Compounds

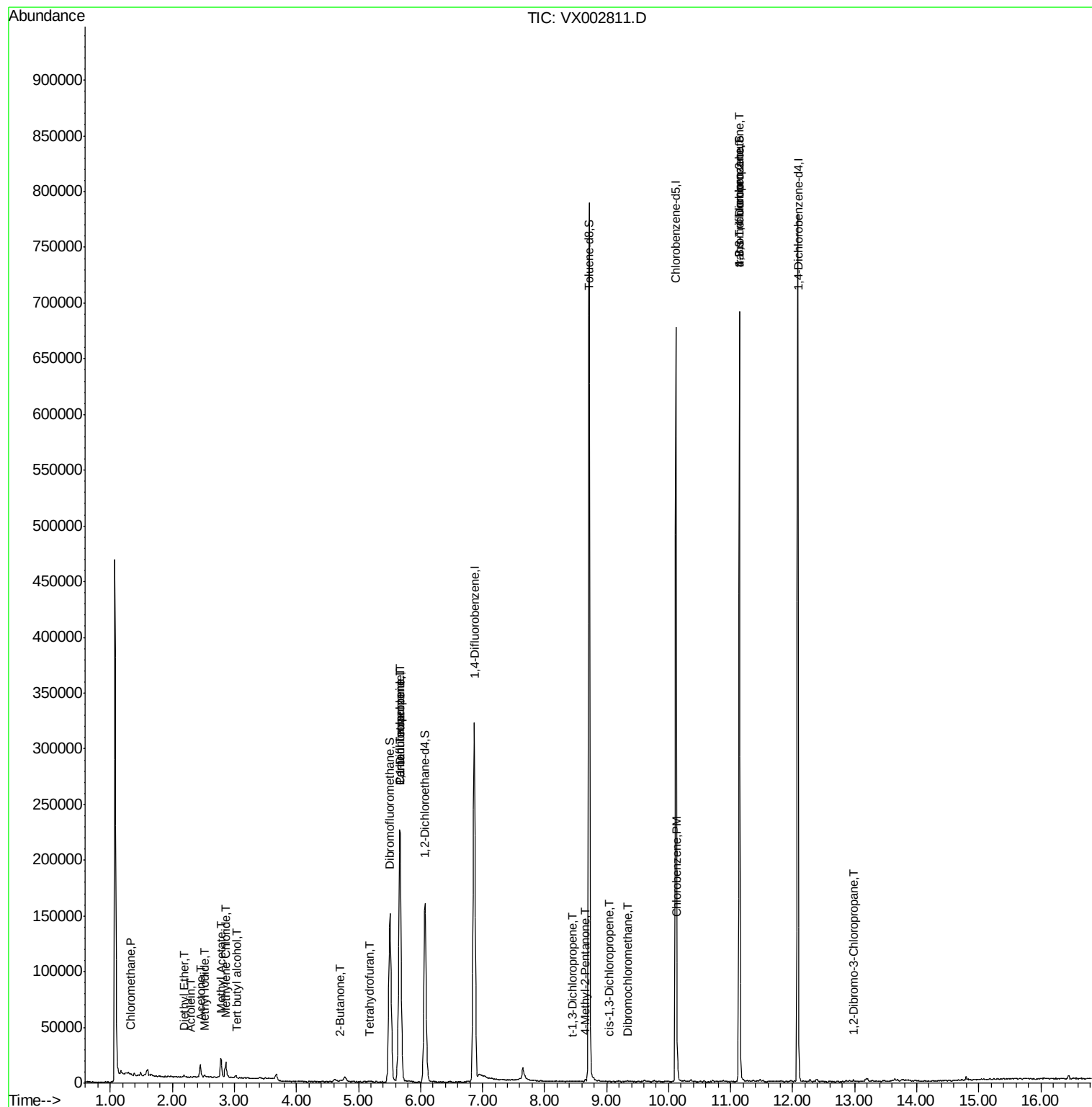
						Qvalue
3) Chloromethane	1.33	50	627	0.22	ug/l	100
8) Diethyl Ether	2.19	74	604	0.33	ug/l	96
10) Methyl Iodide	2.52	142	1700	5.60	ug/l #	98
11) Tert butyl alcohol	3.03	59	1315	1.85	ug/l	100
13) Acrolein	2.31	56	405	8.05	ug/l #	64
16) Acetone	2.45	43	12734	8.39	ug/l	95
18) Methyl Acetate	2.78	43	20849	5.16	ug/l	96
20) Methylene Chloride	2.85	84	6302	2.03	ug/l	92
25) 2-Butanone	4.71	43	1855	0.93	ug/l	96
29) Tetrahydrofuran	5.18	42	923	0.71	ug/l #	69
36) 1,1-Dichloropropene	5.67	75	15692	4.69	ug/l #	51
38) Carbon Tetrachloride	5.67	117	21014	6.30	ug/l #	14
51) 4-Methyl-2-Pentanone	8.66	43	1064	0.26	ug/l #	87
53) t-1,3-Dichloropropene	8.45	75	64	2.41	ug/l #	43
54) cis-1,3-Dichloropropene	9.05	75	23	3.22	ug/l #	13
60) Dibromochloromethane	9.34	129	107	3.79	ug/l #	11
65) Chlorobenzene	10.14	112	2977	0.41	ug/l #	86
76) 1,2,3-Trichloropropane	11.14	75	84385	26.74	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	84385	82.58	ug/l #	6
92) 1,2-Dibromo-3-Chloropropan	12.98	75	350	0.51	ug/l #	1

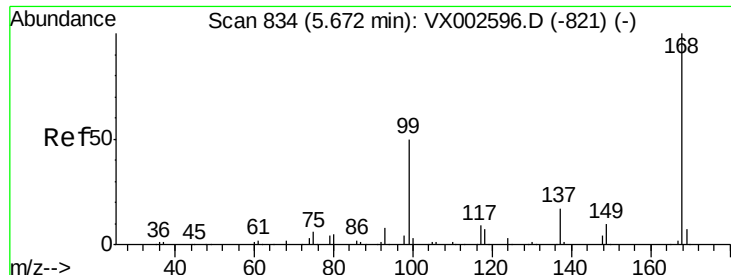
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 833

Delta R.T. -0.01 min

Lab File: VX002811.D

Acq: 22 Jun 2018 02:14

Instrument :

MSVOA_X

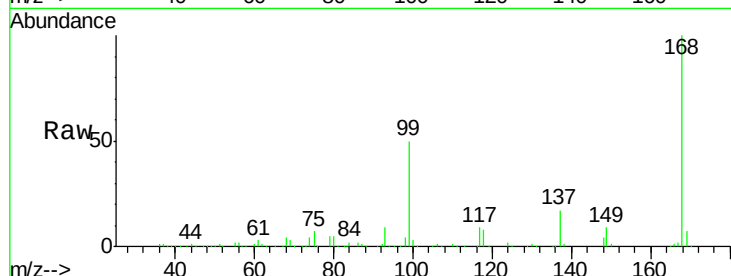
ClientSampled :

Tot Ion:168 Resp: 226353

Ion Ratio Lower Upper

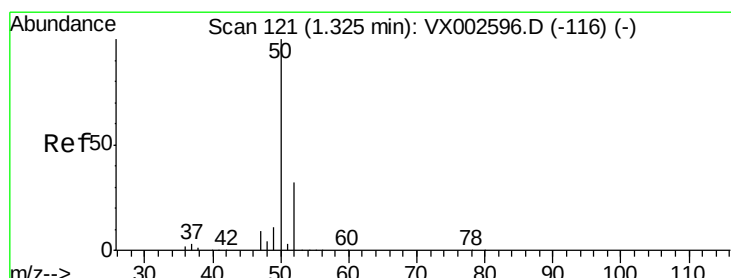
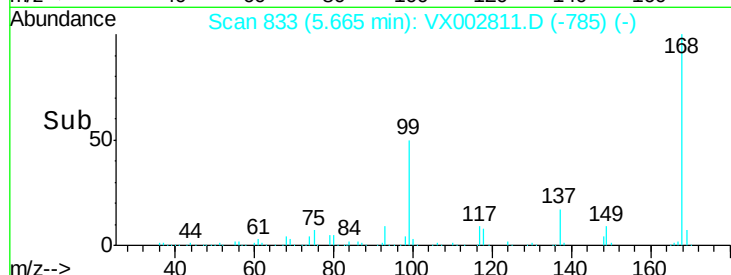
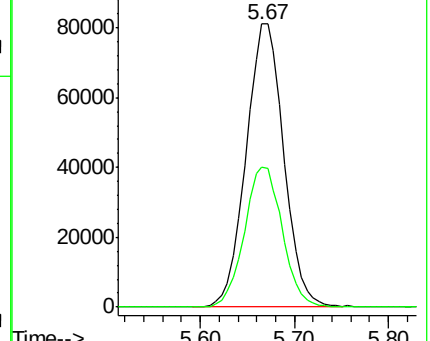
168 100

99 49.6 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.22 ug/l

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002811.D

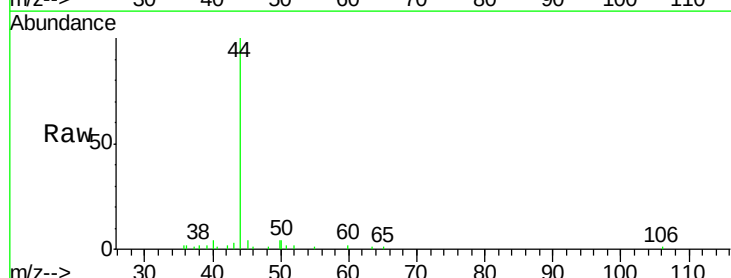
Acq: 22 Jun 2018 02:14

Tgt Ion: 50 Resp: 627

Ion Ratio Lower Upper

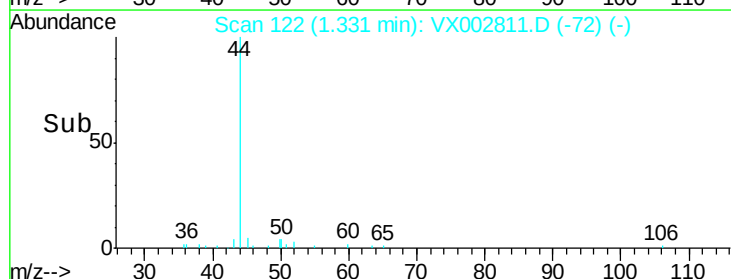
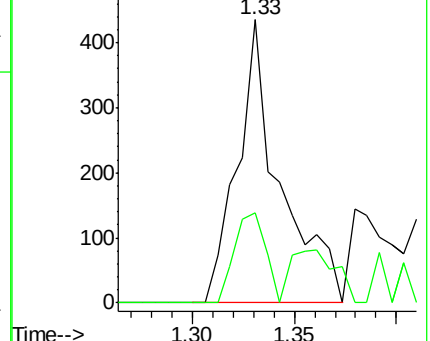
50 100

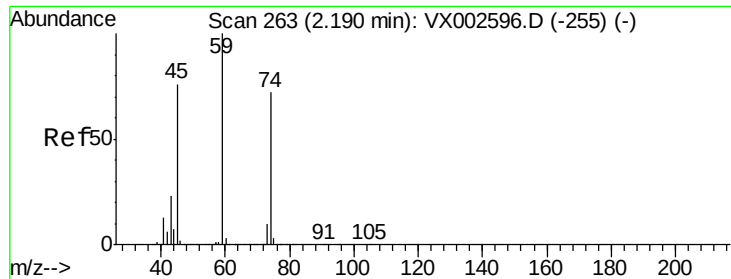
52 32.0 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#8

Diethyl Ether

Concen: 0.33 ug/l

RT: 2.19 min Scan# 263

Delta R.T. -0.00 min

Lab File: VX002811.D

Acq: 22 Jun 2018 02:14

Instrument :

MSVOA_X

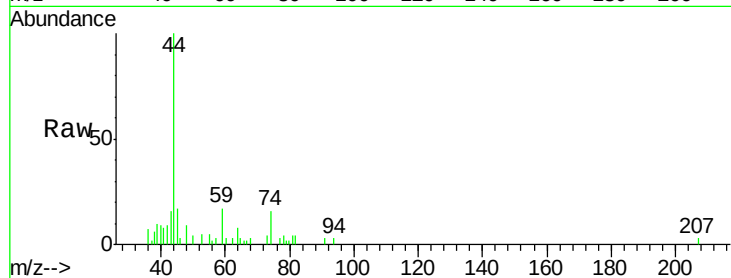
ClientSampled :

Tot Ion: 74 Resp: 604

Ion Ratio Lower Upper

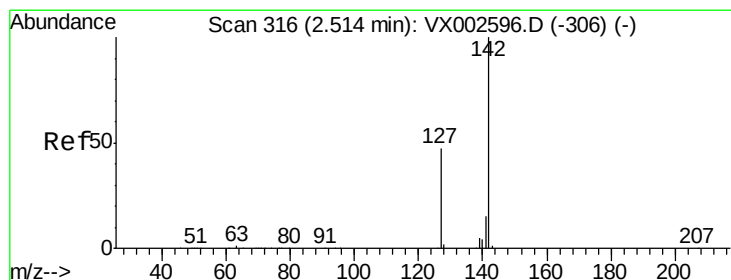
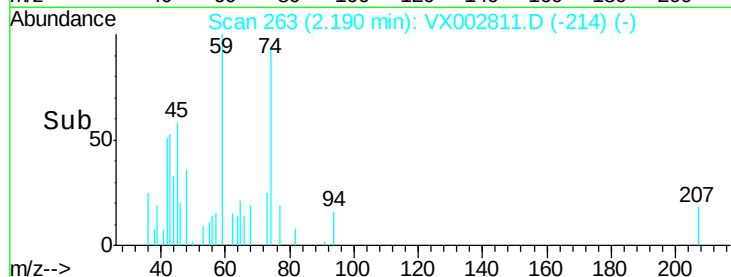
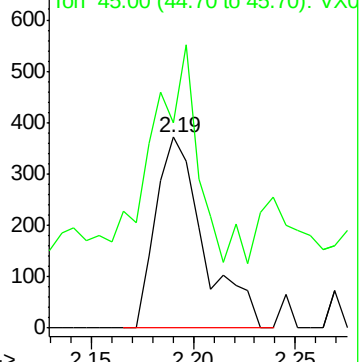
74 100

45 102.0 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: 5.60 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002811.D

Acq: 22 Jun 2018 02:14

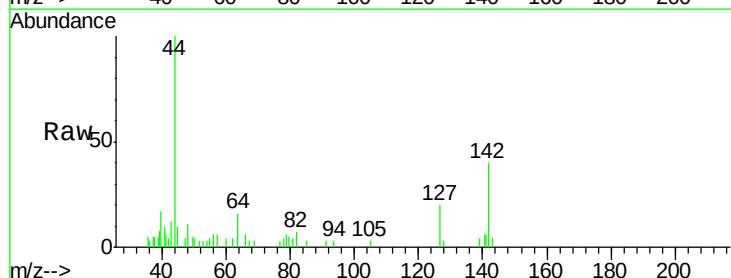
Tgt Ion: 142 Resp: 1700

Ion Ratio Lower Upper

142 100

127 45.3 36.6 55.0

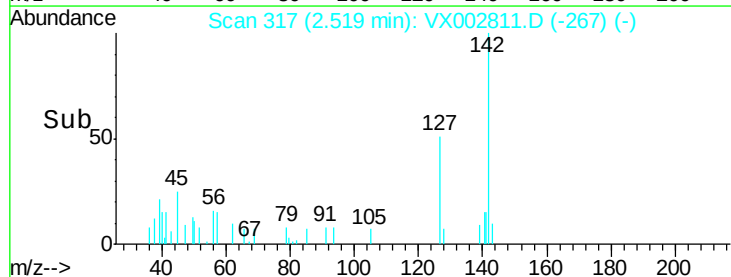
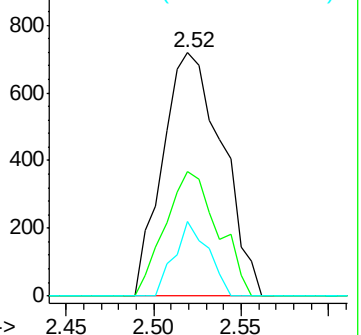
141 17.4 11.3 16.9#

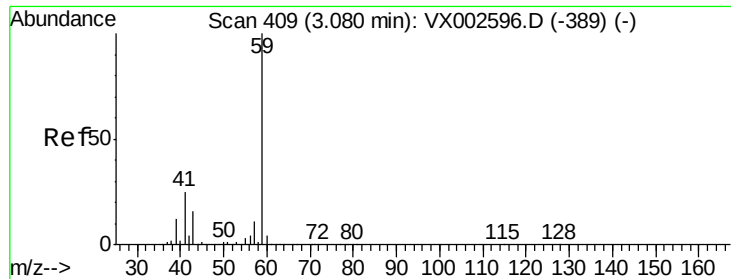


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

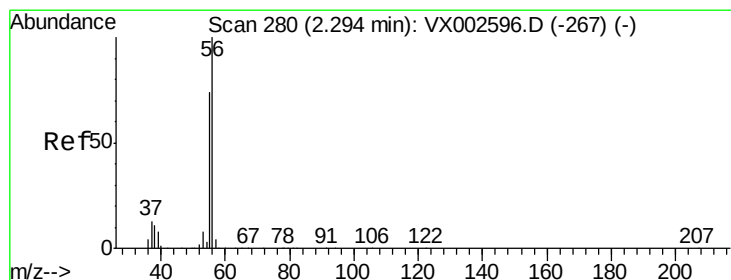
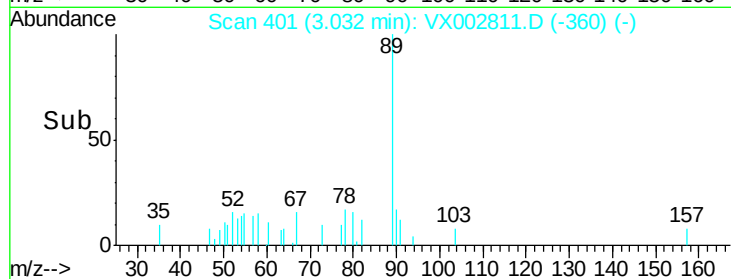
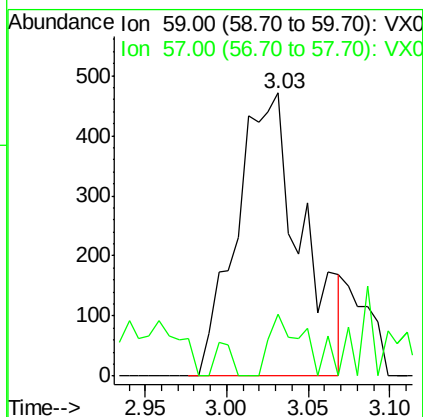
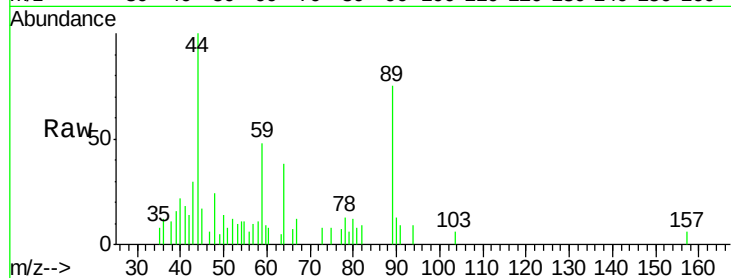




#11
Tert butyl alcohol
Concen: 1.85 ug/l
RT: 3.03 min Scan# 401
Delta R.T. -0.05 min
Lab File: VX002811.D
Acq: 22 Jun 2018 02:14

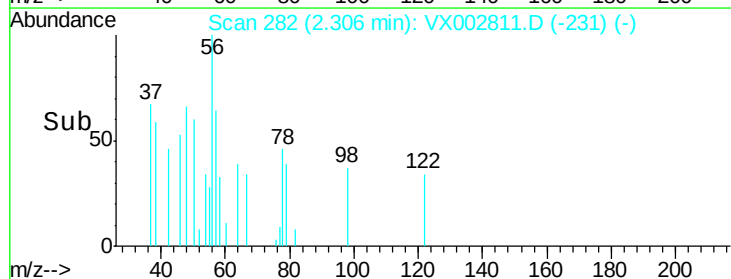
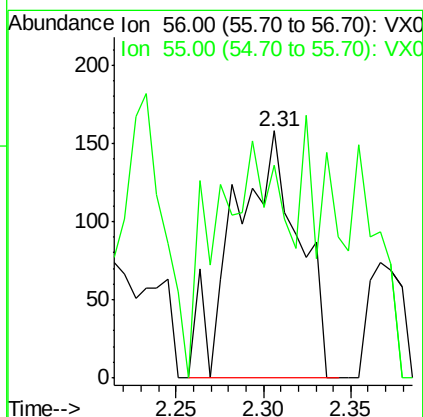
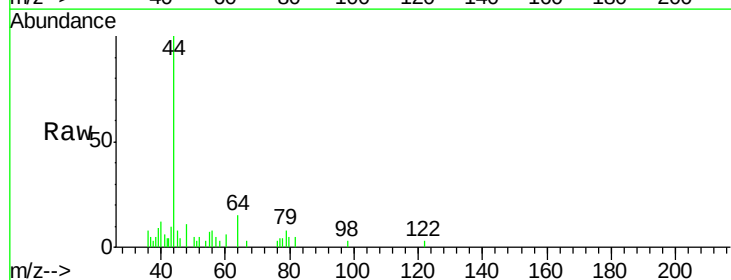
Instrument :
MSVOA_X
ClientSampled :

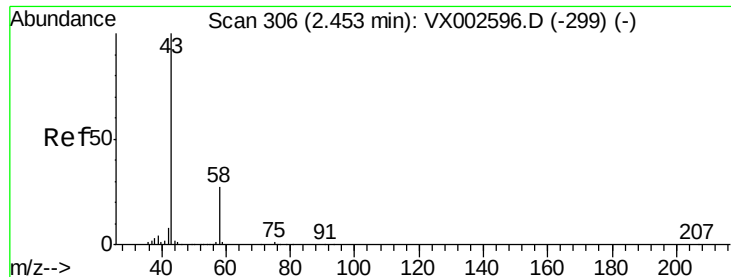
Tot Ion: 59 Resp: 1315
Ion Ratio Lower Upper
59 100
57 10.3 8.2 12.2



#13
Acrolein
Concen: 8.05 ug/l
RT: 2.31 min Scan# 282
Delta R.T. 0.01 min
Lab File: VX002811.D
Acq: 22 Jun 2018 02:14

Tgt Ion: 56 Resp: 405
Ion Ratio Lower Upper
56 100
55 100.7 57.0 85.4#





#16

Acetone

Concen: 8.39 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002811.D

Acq: 22 Jun 2018 02:14

Instrument :

MSVOA_X

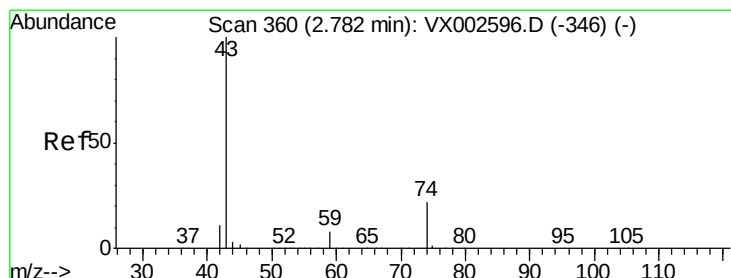
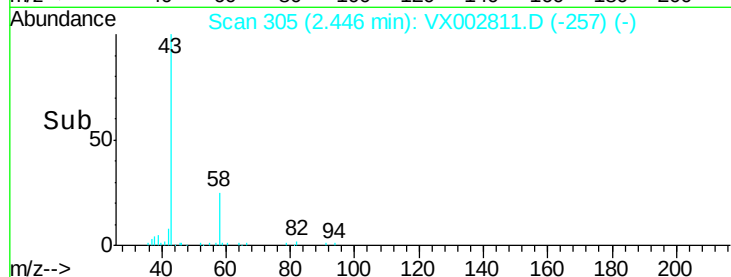
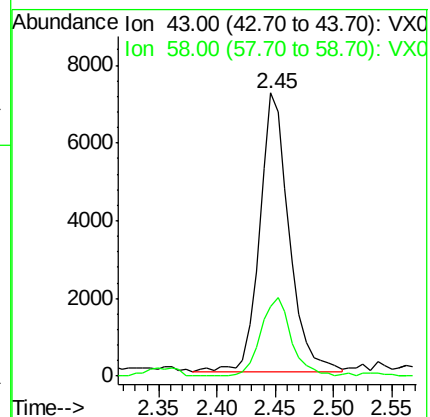
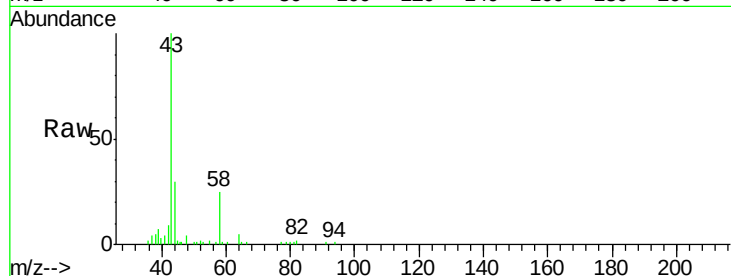
ClientSampleId :

Tot Ion: 43 Resp: 12734

Ion Ratio Lower Upper

43 100

58 25.0 22.1 33.1



#18

Methyl Acetate

Concen: 5.16 ug/l

RT: 2.78 min Scan# 360

Delta R.T. -0.00 min

Lab File: VX002811.D

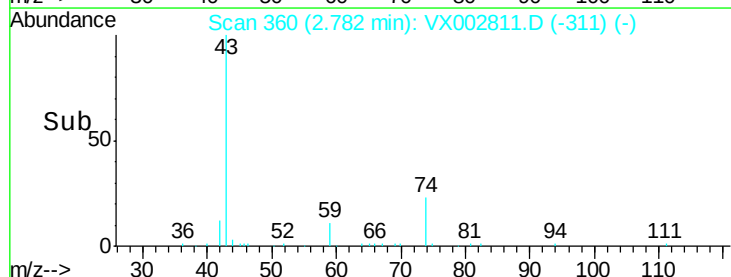
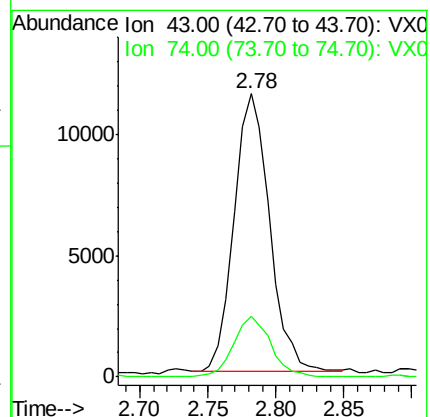
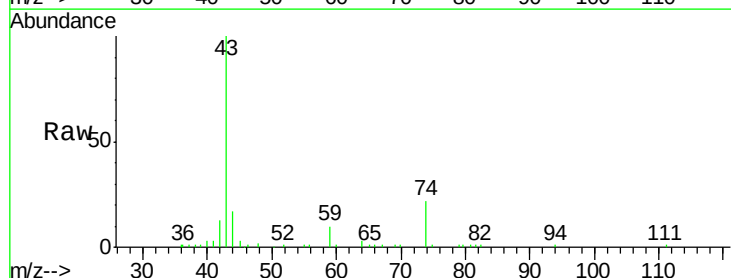
Acq: 22 Jun 2018 02:14

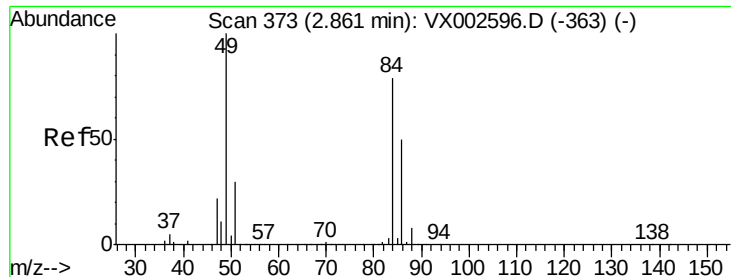
Tgt Ion: 43 Resp: 20849

Ion Ratio Lower Upper

43 100

74 22.8 16.7 25.1

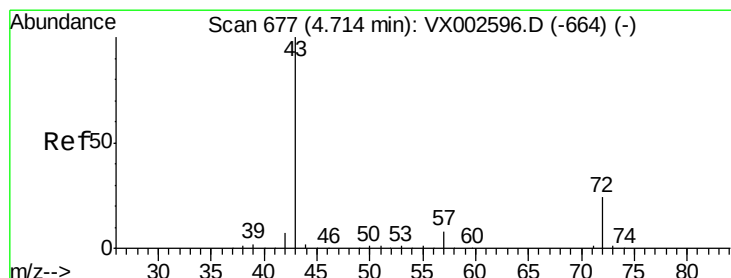
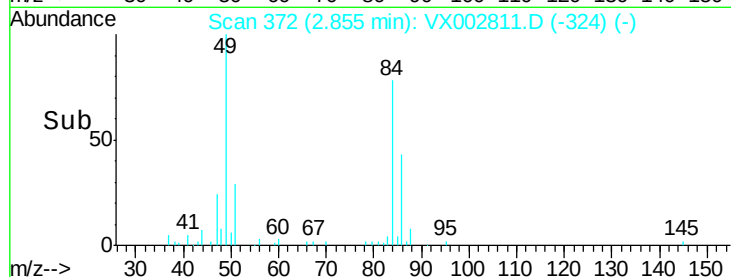
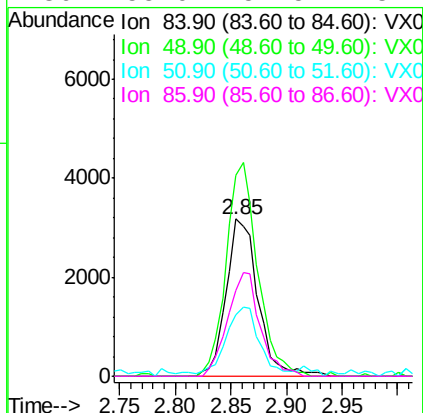
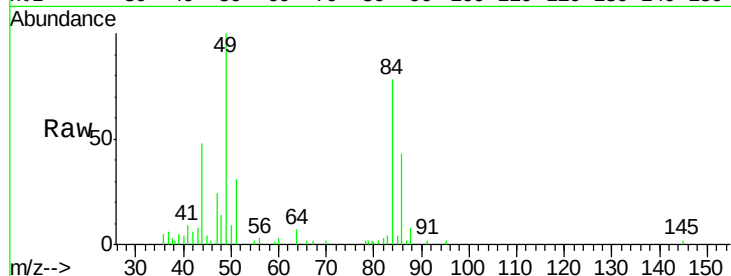




#20
Methylene Chloride
Concen: 2.03 ug/l
RT: 2.85 min Scan# 372
Delta R.T. -0.01 min
Lab File: VX002811.D
Acq: 22 Jun 2018 02:14

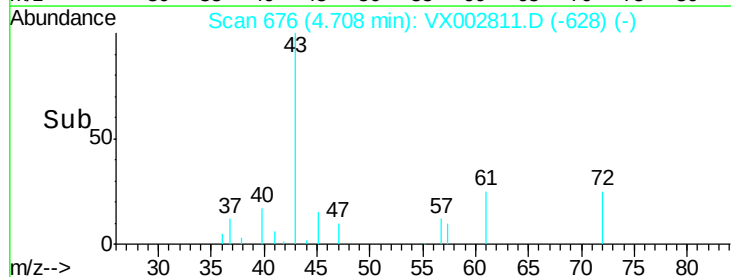
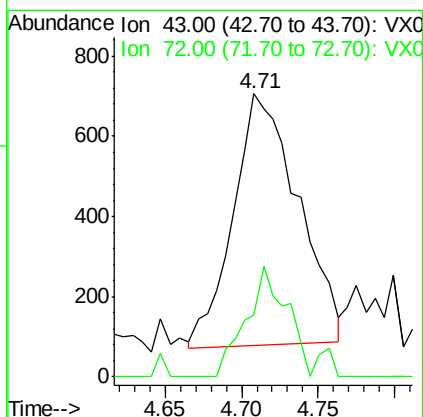
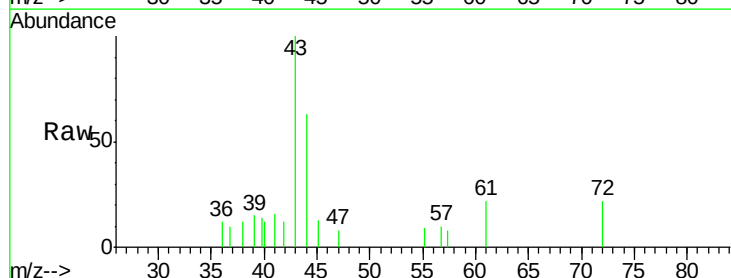
Instrument :
MSVOA_X
ClientSampleId :

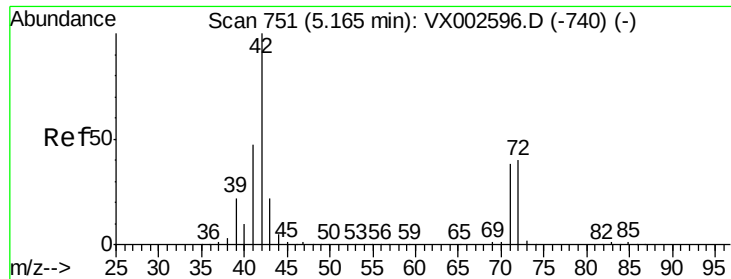
Tot Ion: 84 Resp: 6302
Ion Ratio Lower Upper
84 100
49 128.4 107.8 161.6
51 37.6 32.8 49.2
86 55.0 52.5 78.7



#25
2-Butanone
Concen: 0.93 ug/l
RT: 4.71 min Scan# 676
Delta R.T. -0.01 min
Lab File: VX002811.D
Acq: 22 Jun 2018 02:14

Tgt Ion: 43 Resp: 1855
Ion Ratio Lower Upper
43 100
72 25.0 18.5 27.7

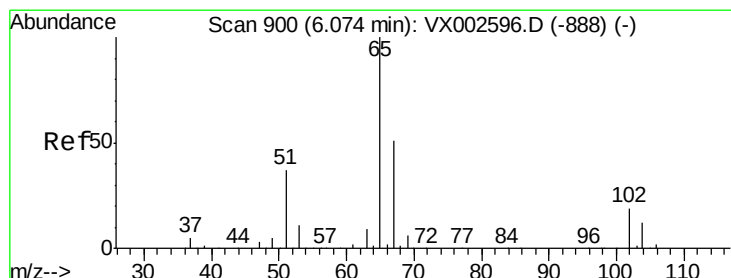
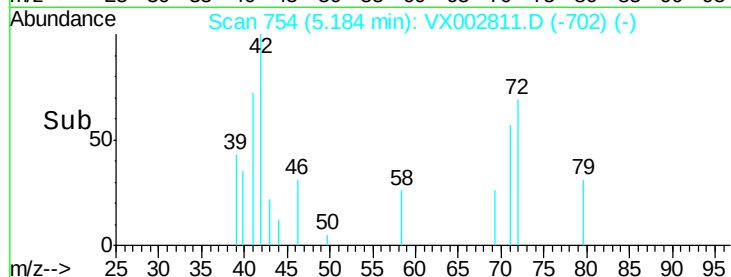
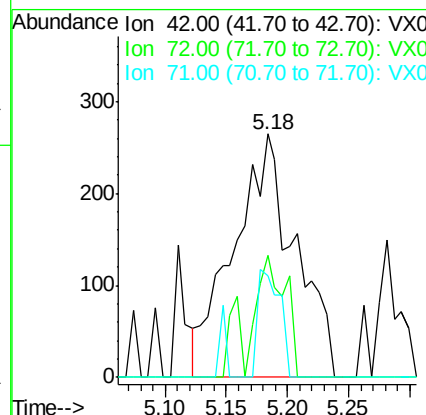
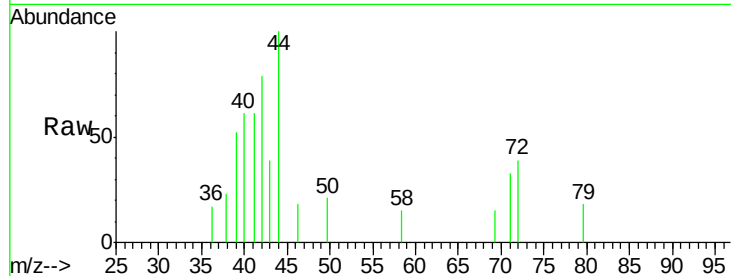




#29
Tetrahydrofuran
Concen: 0.71 ug/l
RT: 5.18 min Scan# 754
Delta R.T. 0.02 min
Lab File: VX002811.D
Acq: 22 Jun 2018 02:14

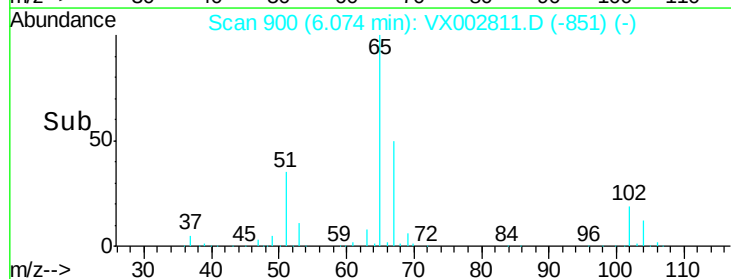
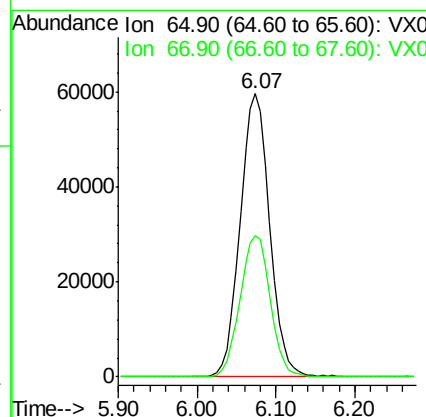
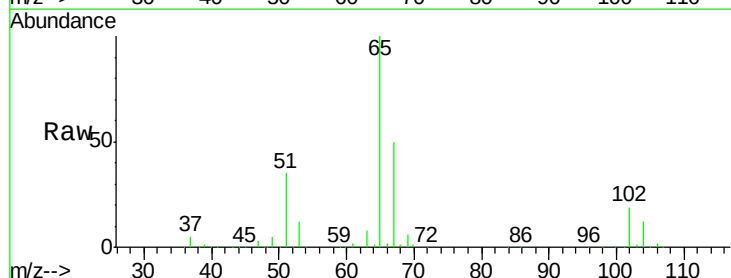
Instrument :
MSVOA_X
ClientSampleId :

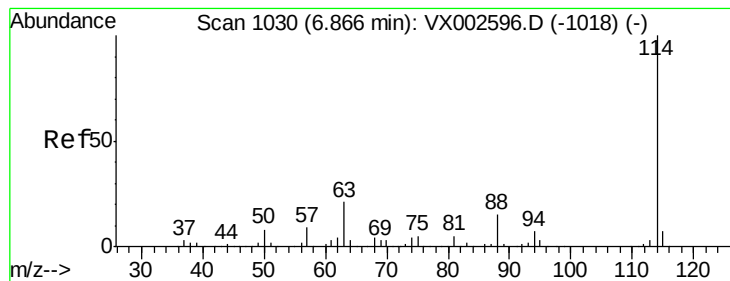
Tot Ion: 42 Resp: 923
Ion Ratio Lower Upper
42 100
72 23.4 32.0 48.0#
71 16.1 30.1 45.1#



#33
1,2-Dichloroethane-d4
Concen: 45.06 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.00 min
Lab File: VX002811.D
Acq: 22 Jun 2018 02:14

Tgt Ion: 65 Resp: 154981
Ion Ratio Lower Upper
65 100
67 51.3 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: VX002811.D

Acq: 22 Jun 2018 02:14

Instrument :

MSVOA_X

ClientSampleId :

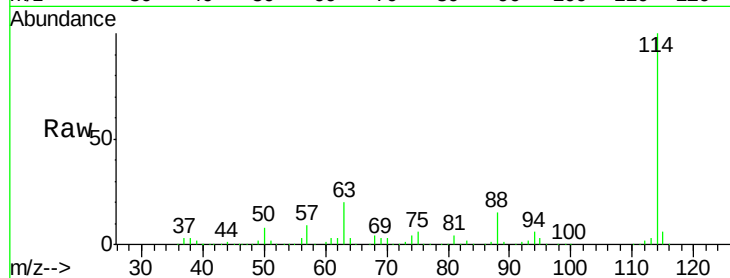
Tot Ion:114 Resp: 315201

Ion Ratio Lower Upper

114 100

63 19.7 0.0 41.4

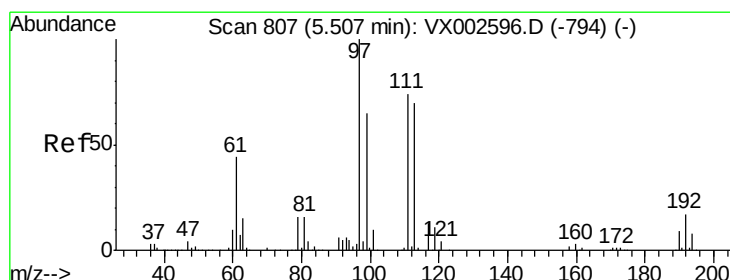
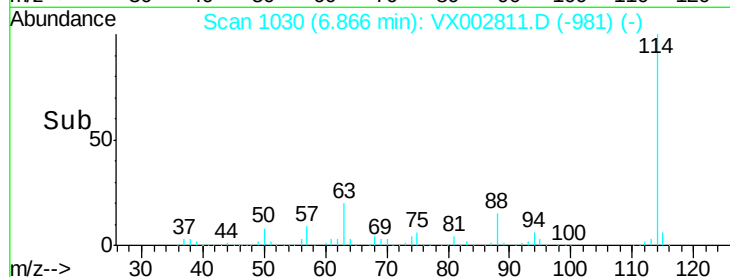
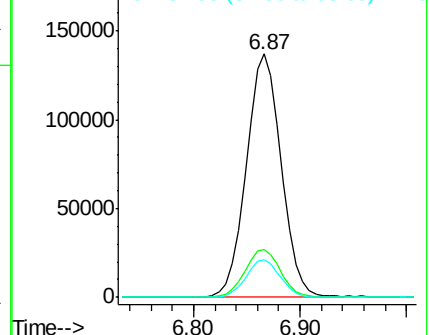
88 15.3 0.0 30.0



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: 48.65 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002811.D

Acq: 22 Jun 2018 02:14

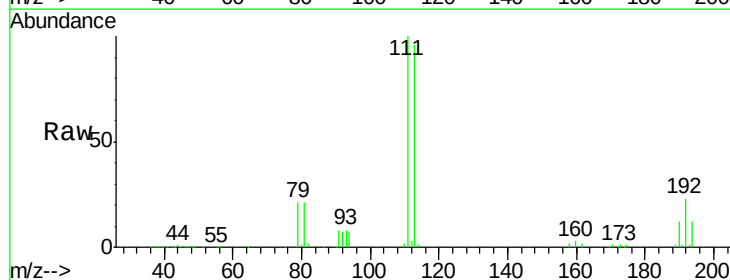
Tgt Ion:113 Resp: 122391

Ion Ratio Lower Upper

113 100

111 101.1 81.4 122.0

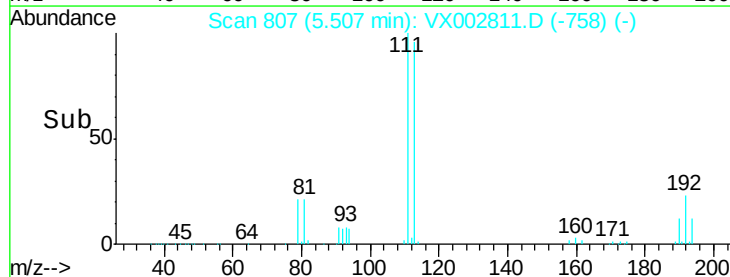
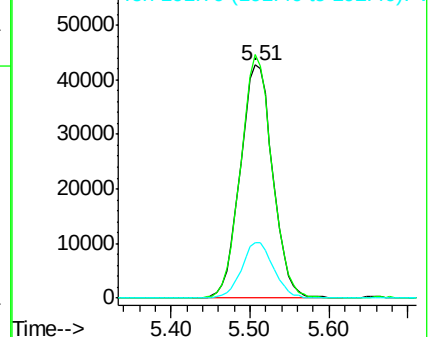
192 23.5 19.1 28.7

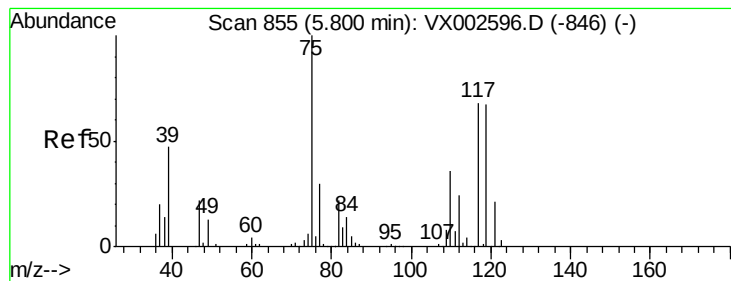


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.69 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX002811.D

Acq: 22 Jun 2018 02:14

Instrument :

MSVOA_X

ClientSampleId :

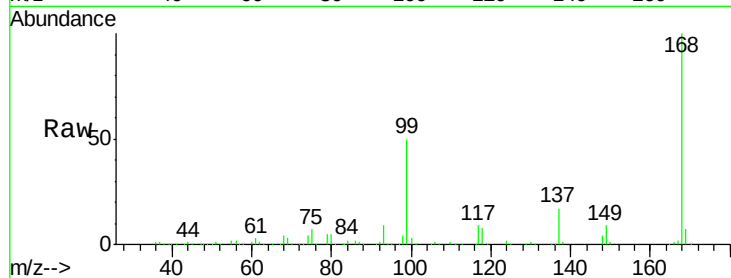
Tot Ion: 75 Resp: 15692

Ion Ratio Lower Upper

75 100

110 10.5 18.1 54.4#

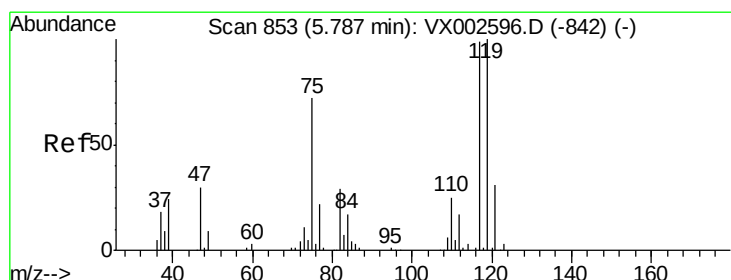
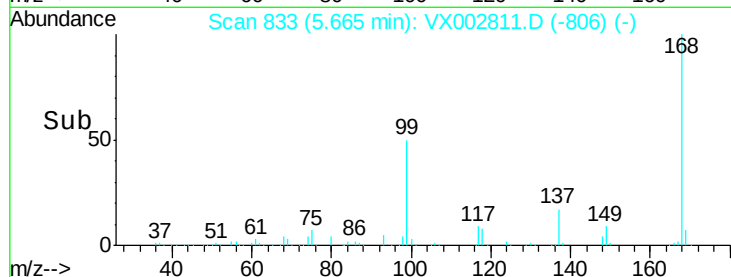
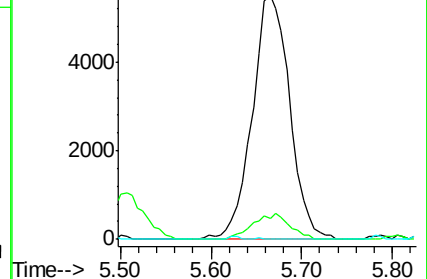
77 0.1 24.3 36.5#



Abundance Ion 74.90 (74.60 to 75.60): VX002596.D (-846) (-)

Ion 109.90 (109.60 to 110.60): VX002596.D (-846) (-)

Ion 76.90 (76.60 to 77.60): VX002596.D (-846) (-)



#38

Carbon Tetrachloride

Concen: 6.30 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX002811.D

Acq: 22 Jun 2018 02:14

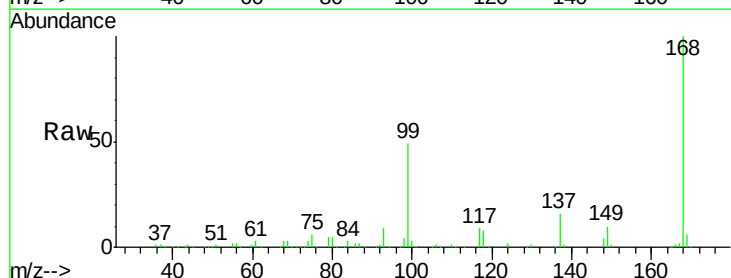
Tgt Ion: 117 Resp: 21014

Ion Ratio Lower Upper

117 100

119 3.6 77.4 116.0#

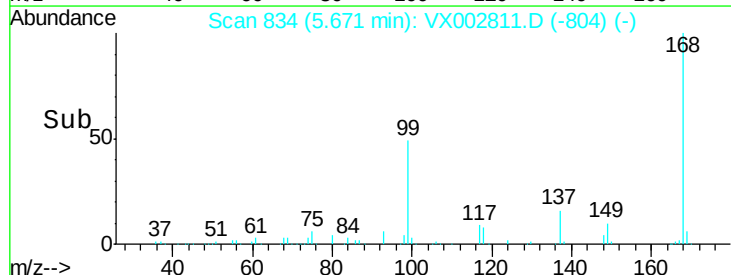
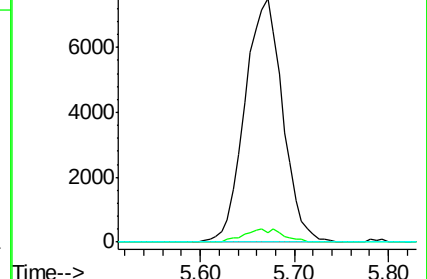
121 0.0 24.4 36.6#

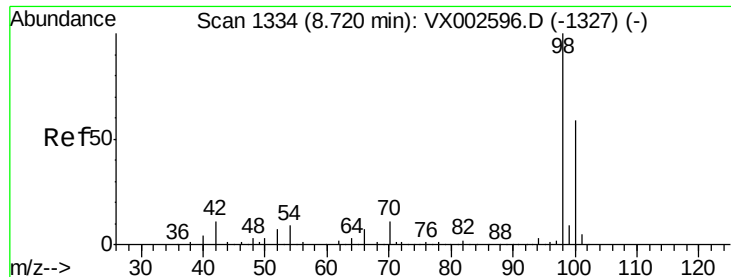


Abundance Ion 116.80 (116.50 to 117.50): VX002596.D (-842) (-)

Ion 118.80 (118.50 to 119.50): VX002596.D (-842) (-)

Ion 120.80 (120.50 to 121.50): VX002596.D (-842) (-)





#50

Toluene-d8

Concen: 47.53 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002811.D

Acq: 22 Jun 2018 02:14

Instrument :

MSVOA_X

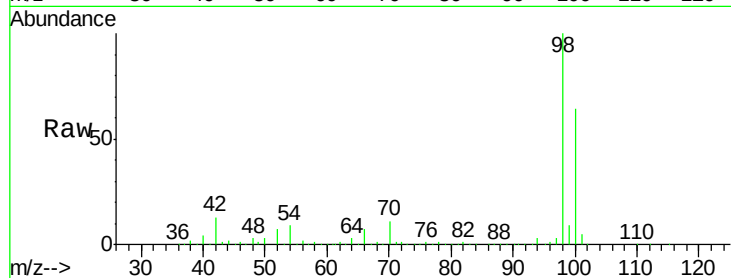
ClientSampleId :

Tot Ion: 98 Resp: 454025

Ion Ratio Lower Upper

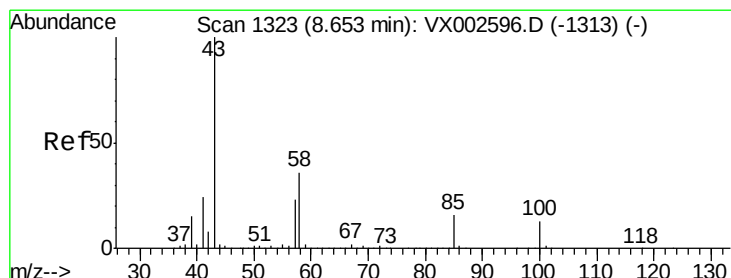
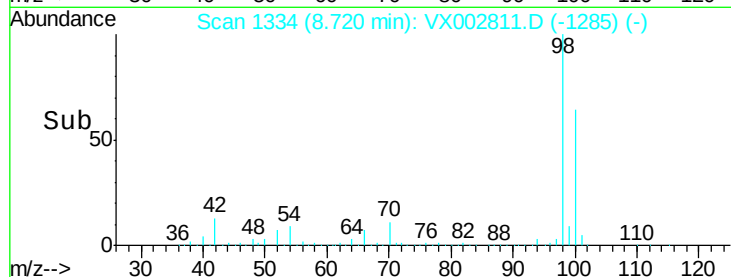
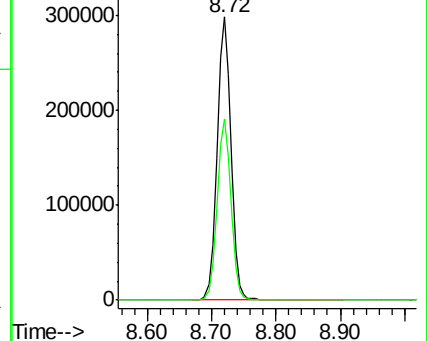
98 100

100 63.8 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 0.26 ug/l

RT: 8.66 min Scan# 1324

Delta R.T. 0.01 min

Lab File: VX002811.D

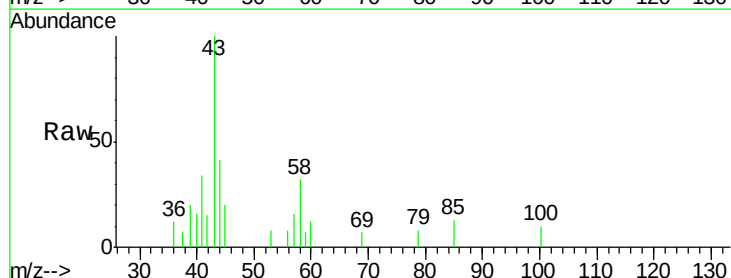
Acq: 22 Jun 2018 02:14

Tgt Ion: 43 Resp: 1064

Ion Ratio Lower Upper

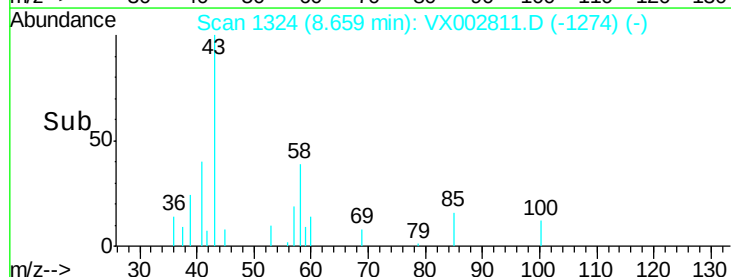
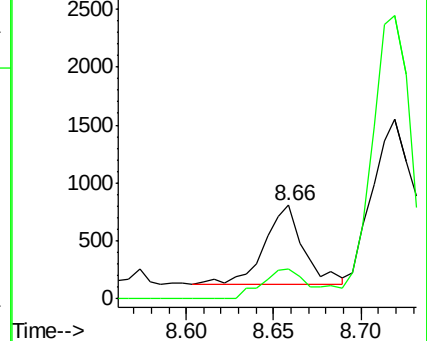
43 100

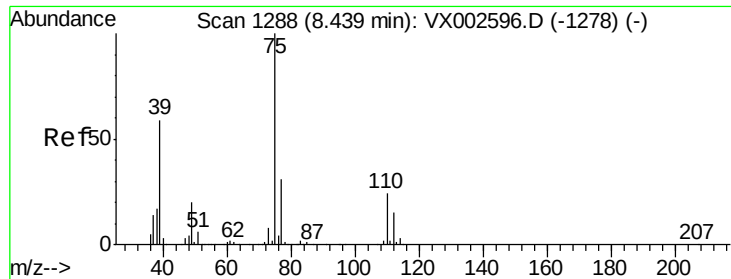
58 43.4 28.6 42.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#53

t-1,3-Dichloropropene

Concen: 2.41 ug/l

RT: 8.45 min Scan# 1289

Delta R.T. 0.01 min

Lab File: VX002811.D

Acq: 22 Jun 2018 02:14

Instrument :

MSVOA_X

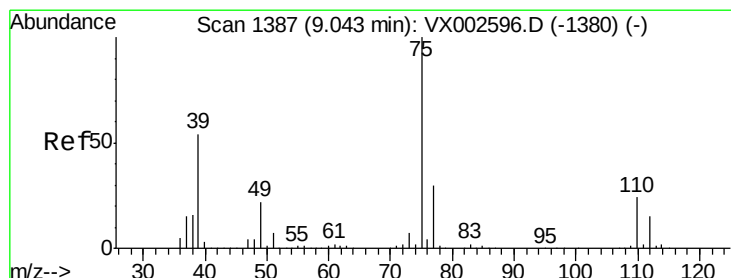
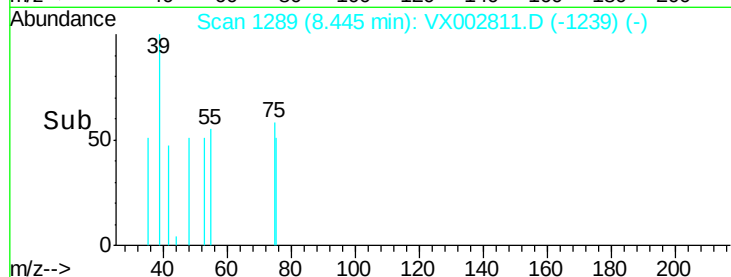
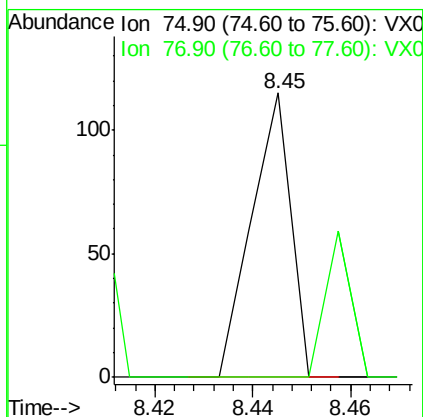
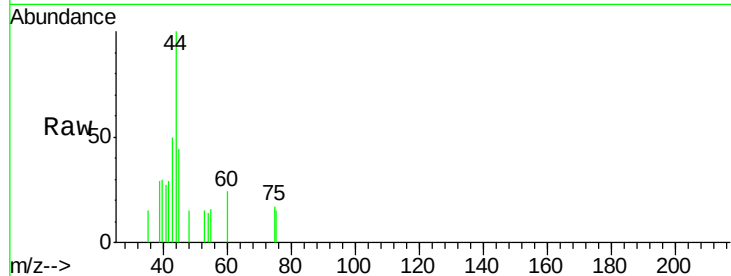
ClientSampleId :

Tot Ion: 75 Resp: 64

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.2#



#54

cis-1,3-Dichloropropene

Concen: 3.22 ug/l

RT: 9.05 min Scan# 1388

Delta R.T. 0.01 min

Lab File: VX002811.D

Acq: 22 Jun 2018 02:14

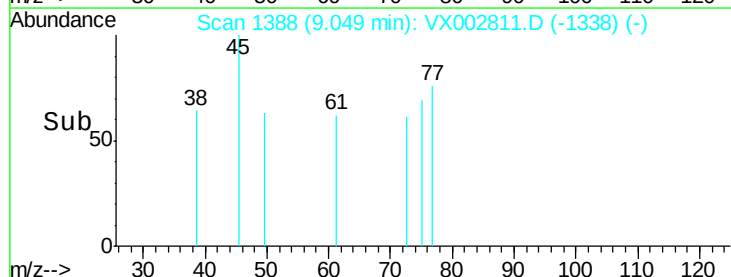
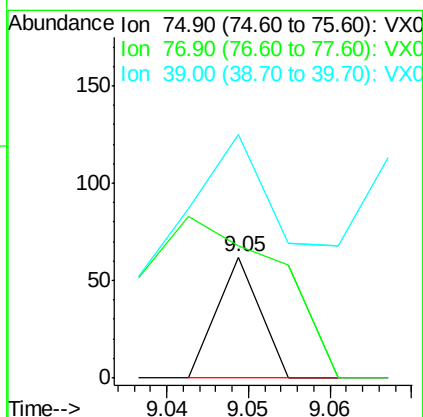
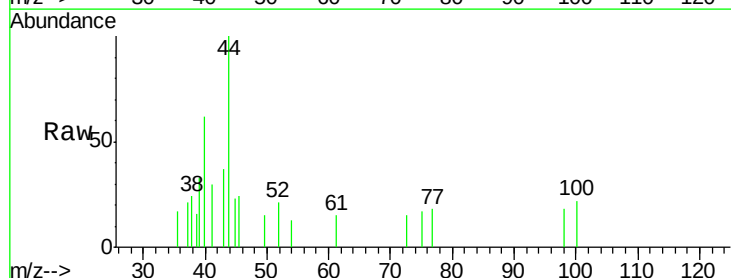
Tgt Ion: 75 Resp: 23

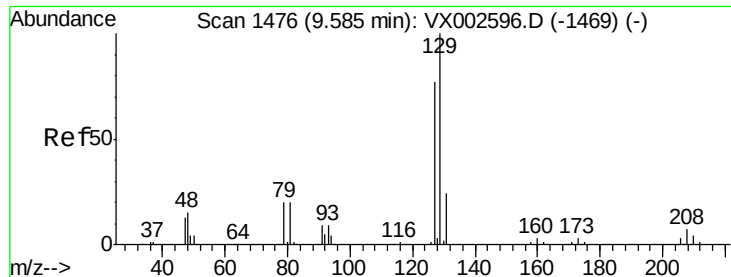
Ion Ratio Lower Upper

75 100

77 109.7 24.8 37.2#

39 91.9 42.4 63.6#





#60

Dibromochloromethane

Concen: 3.79 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. -0.25 min

Lab File: VX002811.D

Acq: 22 Jun 2018 02:14

Instrument :

MSVOA_X

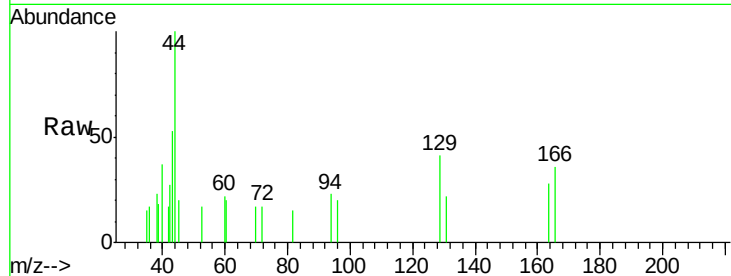
ClientSampleId :

Tot Ion:129 Resp: 107

Ion Ratio Lower Upper

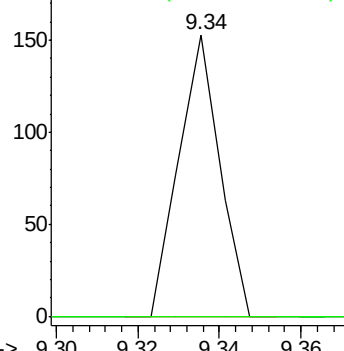
129 100

127 0.0 38.5 115.3#

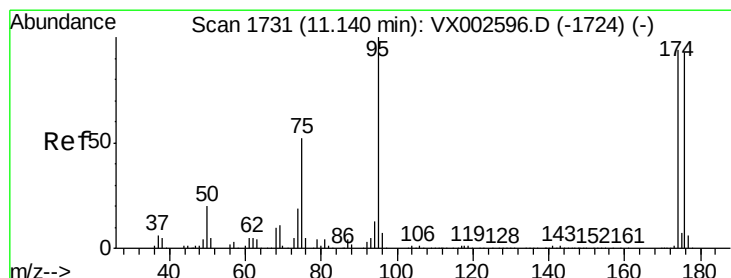
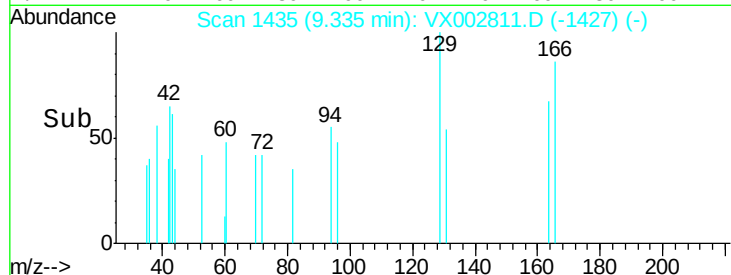


Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



Time-->



#62

4-Bromofluorobenzene

Concen: 43.28 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002811.D

Acq: 22 Jun 2018 02:14

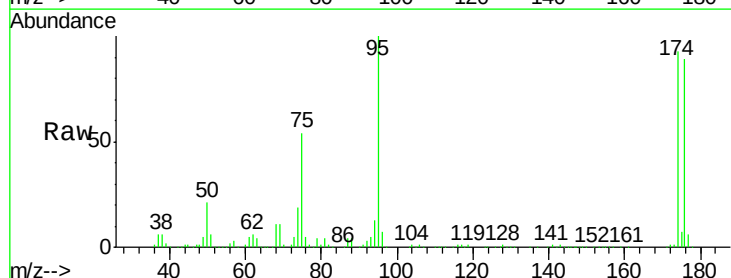
Tgt Ion: 95 Resp: 156651

Ion Ratio Lower Upper

95 100

174 97.8 0.0 187.4

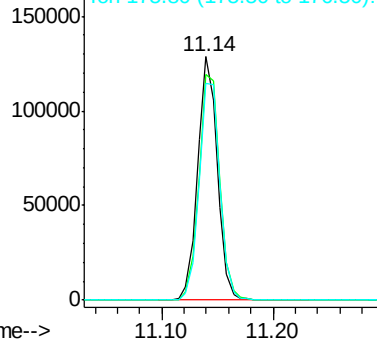
176 94.6 0.0 181.0



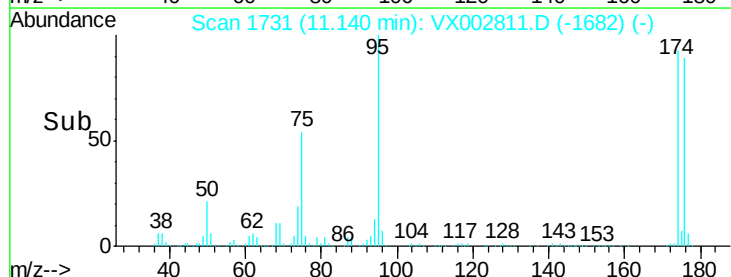
Abundance Ion 94.90 (94.60 to 95.60): VX0

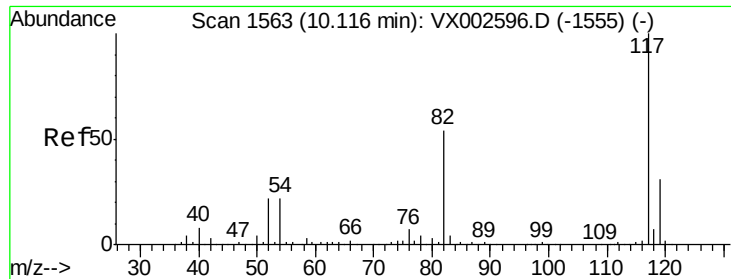
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



Time-->

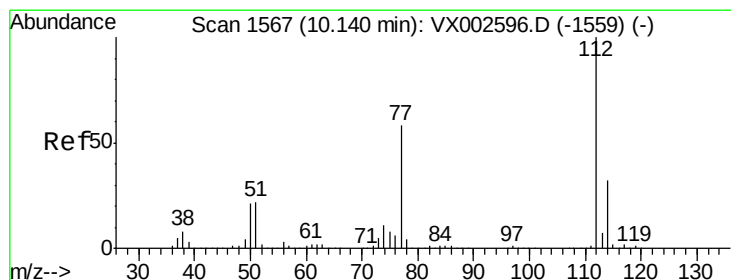
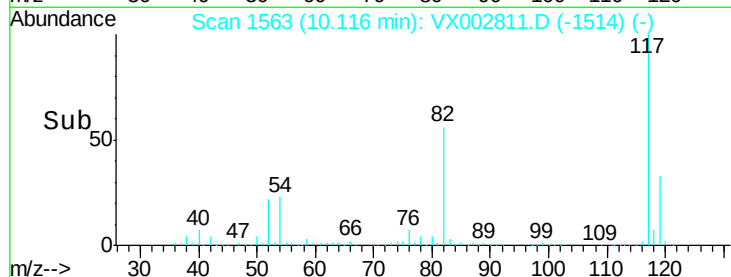
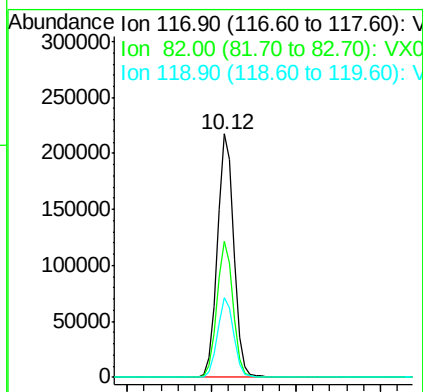
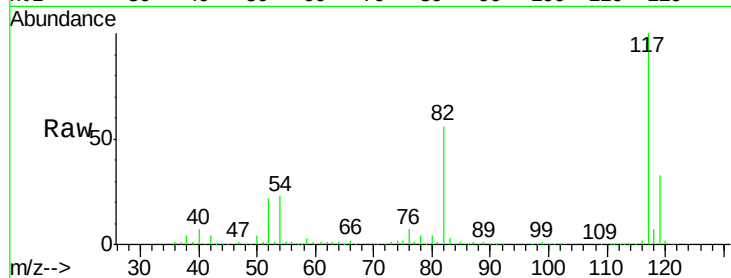




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002811.D
Acq: 22 Jun 2018 02:14

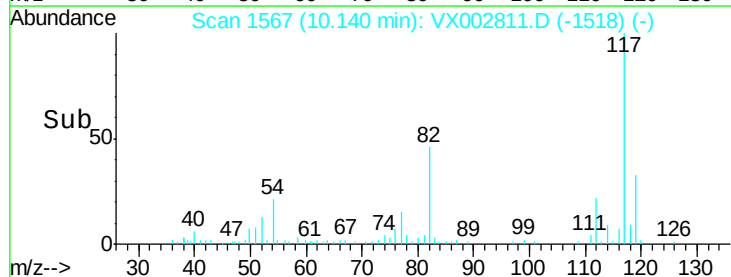
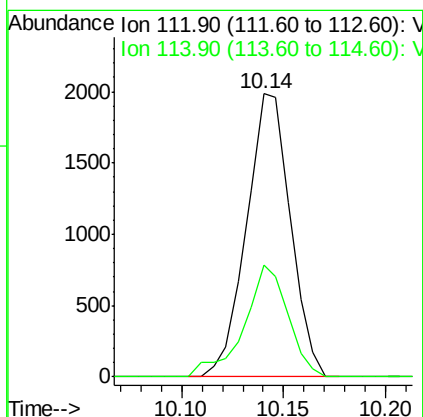
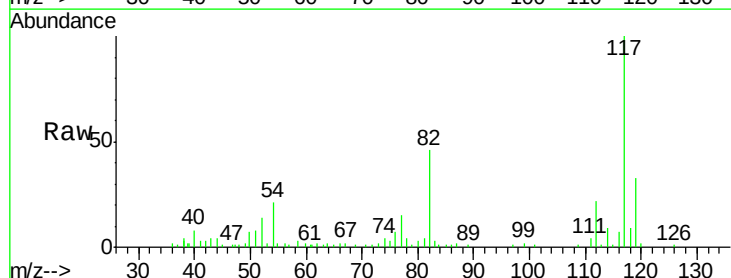
Instrument :
MSVOA_X
ClientSampled :

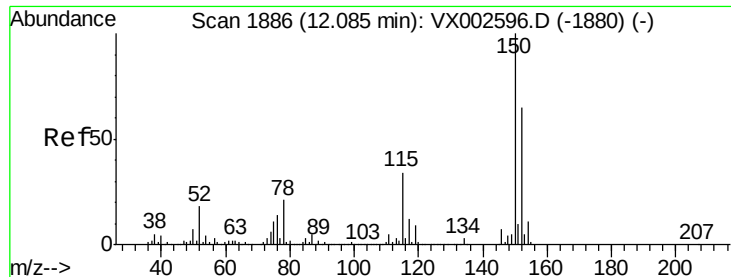
Tot Ion:117 Resp: 294061
Ion Ratio Lower Upper
117 100
82 56.0 45.0 67.4
119 32.7 25.8 38.6



#65
Chlorobenzene
Concen: 0.41 ug/l
RT: 10.14 min Scan# 1567
Delta R.T. -0.00 min
Lab File: VX002811.D
Acq: 22 Jun 2018 02:14

Tgt Ion:112 Resp: 2977
Ion Ratio Lower Upper
112 100
114 39.3 25.3 37.9#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002811.D

Acq: 22 Jun 2018 02:14

Instrument :

MSVOA_X

ClientSampleId :

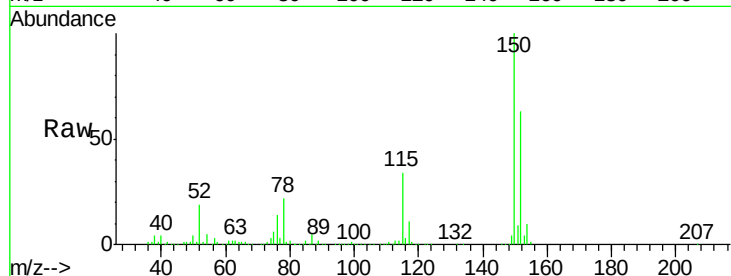
Tot Ion:152 Resp: 167252

Ion Ratio Lower Upper

152 100

115 55.0 40.1 120.2

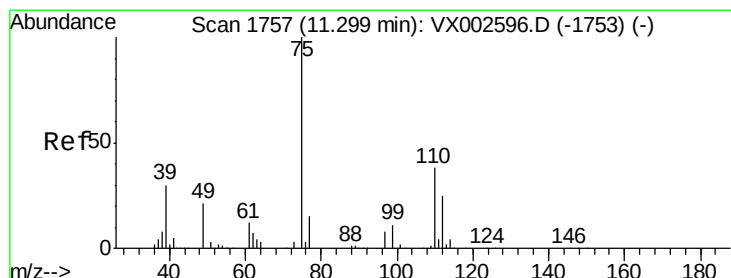
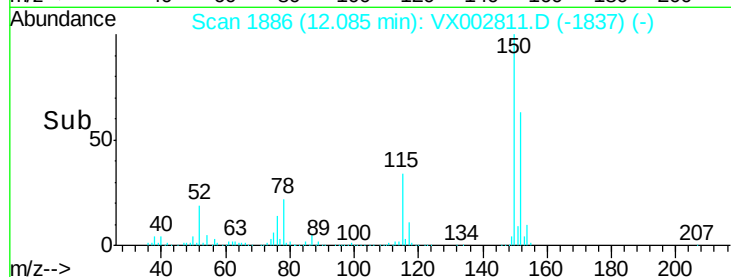
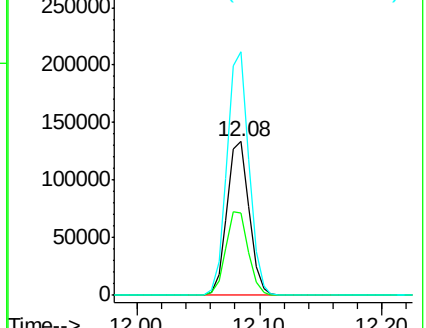
150 156.6 0.0 347.2



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: 26.74 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002811.D

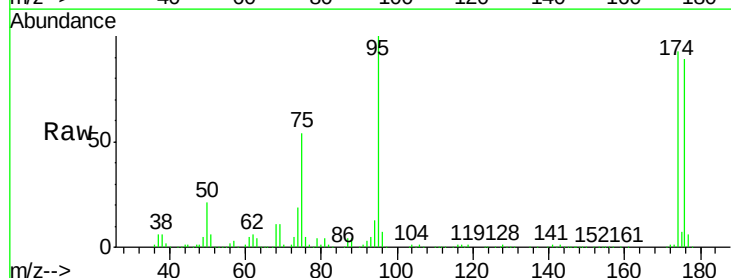
Acq: 22 Jun 2018 02:14

Tgt Ion: 75 Resp: 84385

Ion Ratio Lower Upper

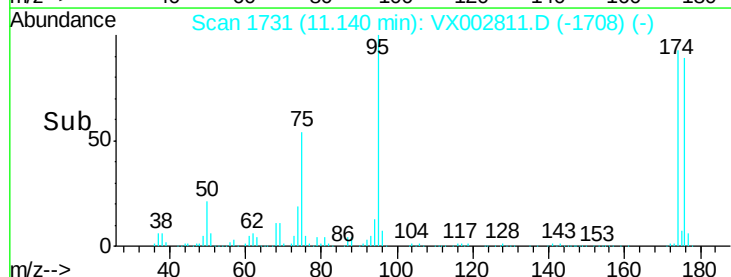
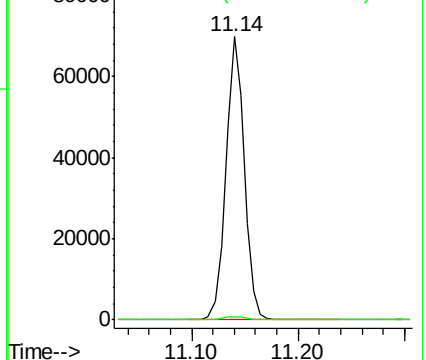
75 100

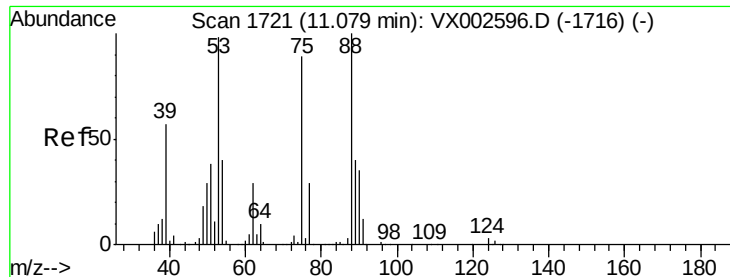
77 1.4 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 82.58 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002811.D

Acq: 22 Jun 2018 02:14

Instrument :

MSVOA_X

ClientSampled :

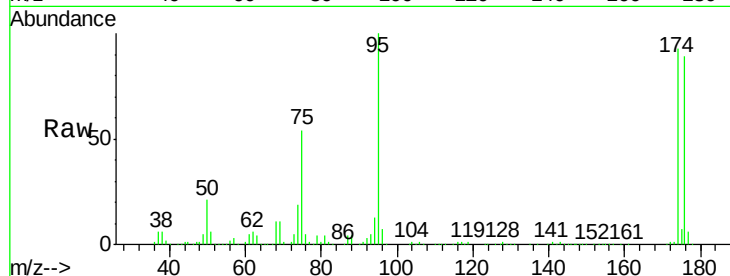
Tot Ion: 75 Resp: 84385

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

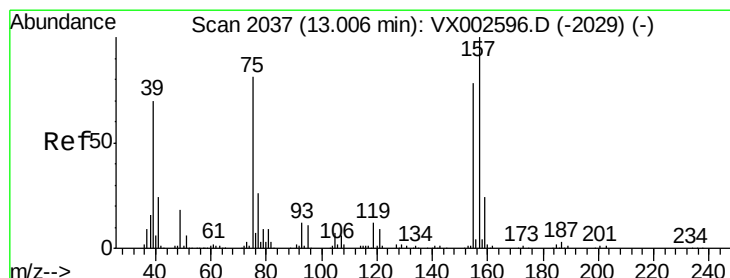
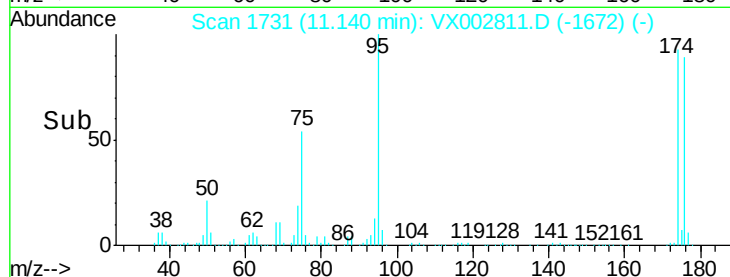
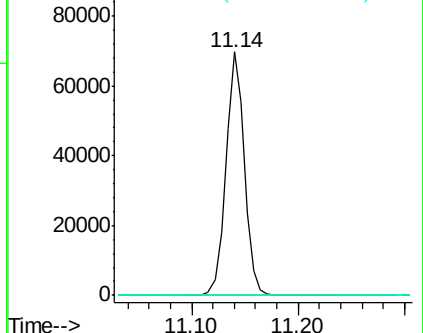
89 0.0 38.2 57.2#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.51 ug/l

RT: 12.98 min Scan# 2033

Delta R.T. -0.02 min

Lab File: VX002811.D

Acq: 22 Jun 2018 02:14

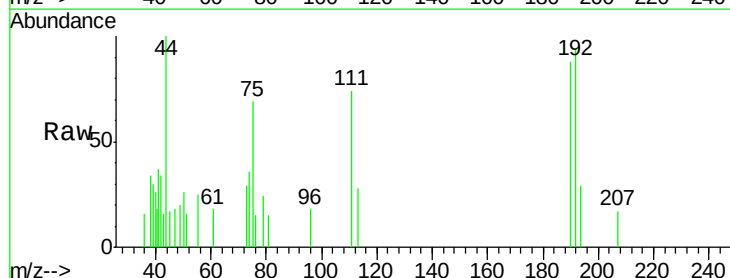
Tgt Ion: 75 Resp: 350

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

