

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061518\
 Data File : VX002613.D
 Acq On : 15 Jun 2018 22:49
 Operator : JC/MD
 Sample : J3516-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 IDW

Quant Time: Jun 15 23:53:56 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 15 14:54:36 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	203975	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	291860	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	274245	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	155393	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	141670	45.70	ug/l	0.00
Spiked Amount			Recovery	=	91.40%	
35) Dibromofluoromethane	5.51	113	106476	45.71	ug/l	0.00
Spiked Amount			Recovery	=	91.42%	
50) Toluene-d8	8.72	98	420761	47.57	ug/l	0.00
Spiked Amount			Recovery	=	95.14%	
62) 4-Bromofluorobenzene	11.14	95	146853	43.82	ug/l	0.00
Spiked Amount			Recovery	=	87.64%	

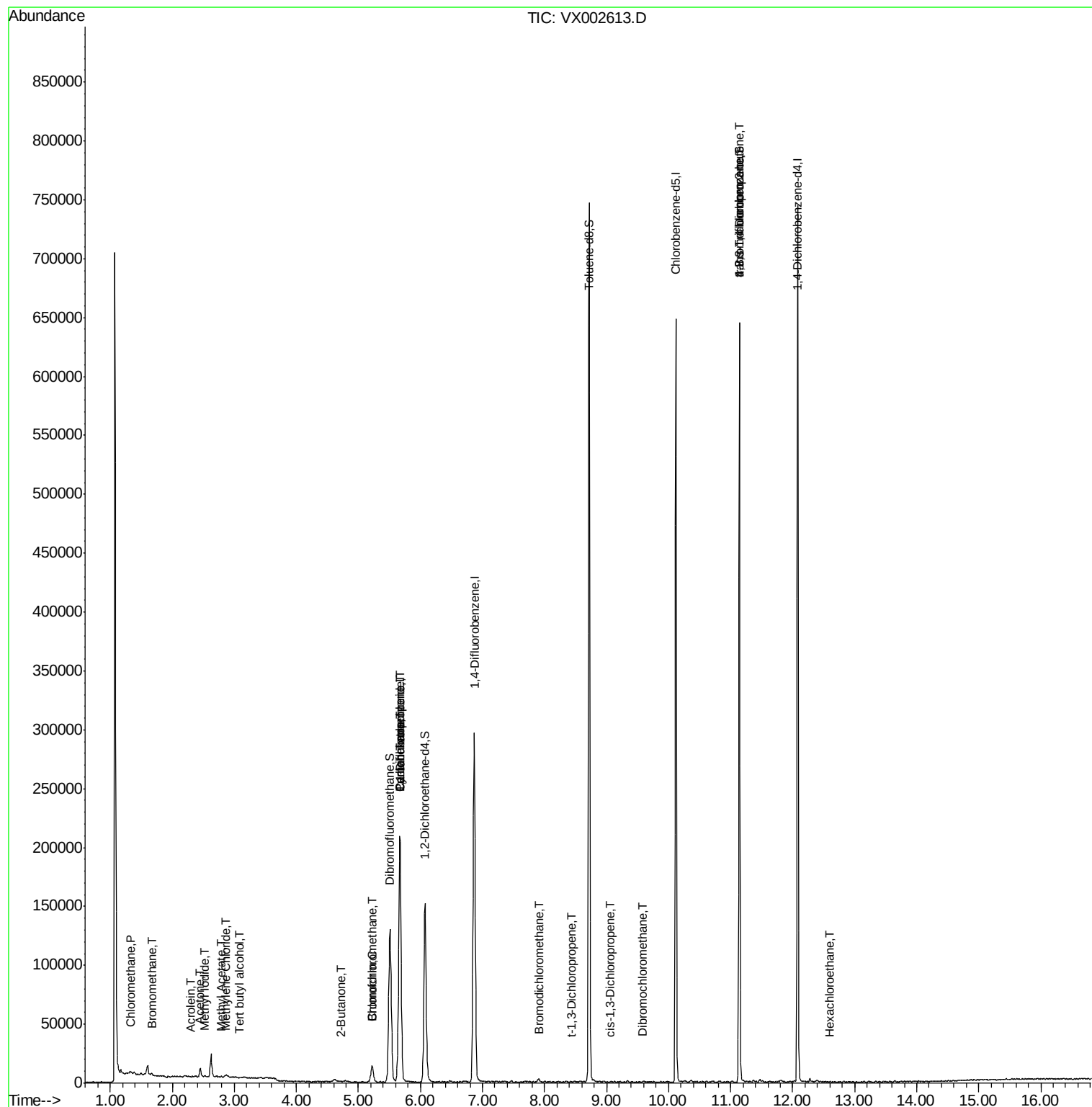
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	719	0.28	ug/l	98
5) Bromomethane	1.66	94	1134	0.70	ug/l	92
10) Methyl Iodide	2.53	142	1132	5.49	ug/l #	88
11) Tert butyl alcohol	3.08	59	524	0.82	ug/l #	83
13) Acrolein	2.30	56	53	7.04	ug/l #	1
16) Acetone	2.45	43	8537	6.24	ug/l	98
18) Methyl Acetate	2.79	43	1000	0.27	ug/l	99
20) Methylene Chloride	2.86	84	923	0.33	ug/l #	69
25) 2-Butanone	4.72	43	375	0.21	ug/l #	52
28) Bromochloromethane	5.23	49	1633	0.78	ug/l #	13
30) Chloroform	5.21	83	14862	3.47	ug/l	97
31) Cyclohexane	5.67	56	4586	1.25	ug/l #	24
36) 1,1-Dichloropropene	5.67	75	14144	4.56	ug/l #	51
38) Carbon Tetrachloride	5.67	117	19428	6.29	ug/l #	15
47) Bromodichloromethane	7.90	83	1501	0.52	ug/l #	91
53) t-1,3-Dichloropropene	8.44	75	31	2.40	ug/l #	34
54) cis-1,3-Dichloropropene	9.05	75	31	3.22	ug/l #	38
60) Dibromochloromethane	9.58	129	179	3.82	ug/l	82
76) 1,2,3-Trichloropropane	11.14	75	79123	26.98	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	79123	83.30	ug/l #	7
90) Hexachloroethane	12.60	117	22	2.64	ug/l #	1

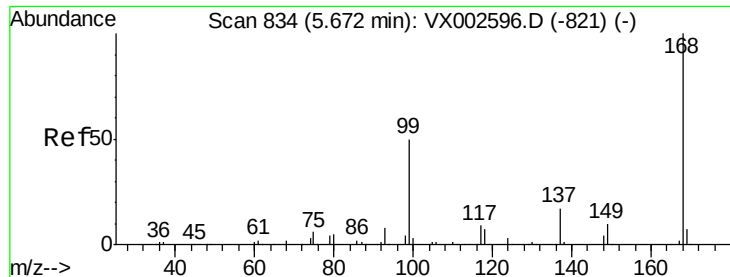
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jun 15 23:53:56 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 15 14:54:36 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: VX002613.D

Acq: 15 Jun 2018 22:49

Instrument :

MSVOA_X

ClientSampled :

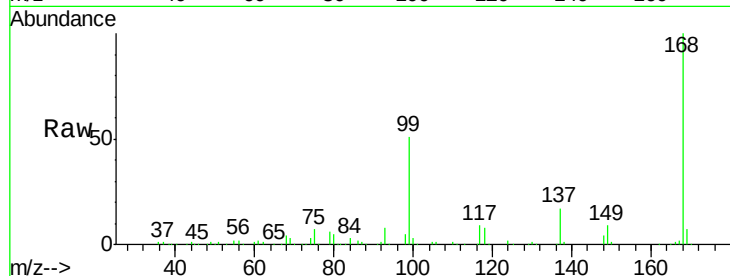
IDW

Tot Ion:168 Resp: 203975

Ion Ratio Lower Upper

168 100

99 50.8 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

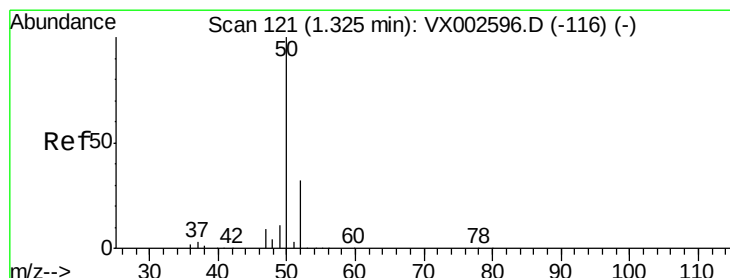
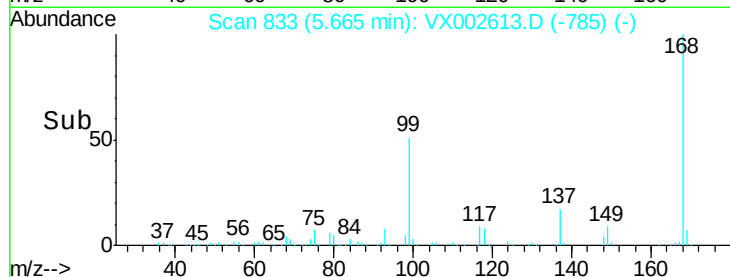
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.28 ug/l

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002613.D

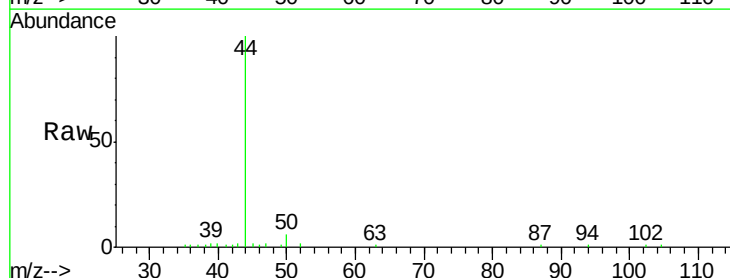
Acq: 15 Jun 2018 22:49

Tgt Ion: 50 Resp: 719

Ion Ratio Lower Upper

50 100

52 31.1 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

500

400

300

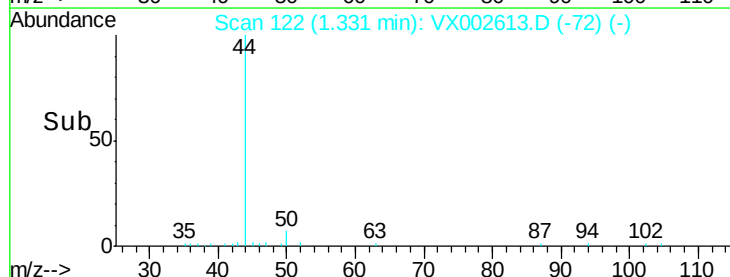
200

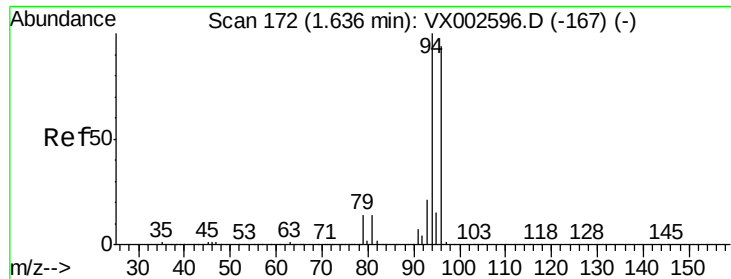
100

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: 0.70 ug/l

RT: 1.66 min Scan# 176

Delta R.T. 0.02 min

Lab File: VX002613.D

Acq: 15 Jun 2018 22:49

Instrument :

MSVOA_X

ClientSampled :

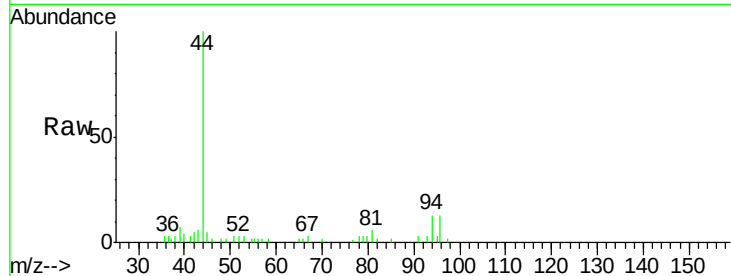
IDW

Tot Ion: 94 Resp: 1134

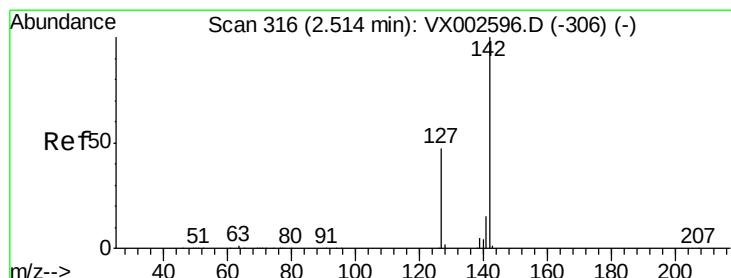
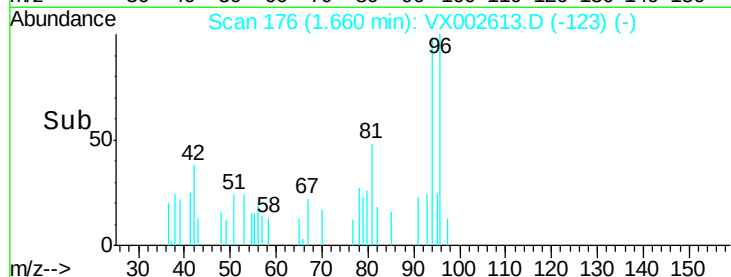
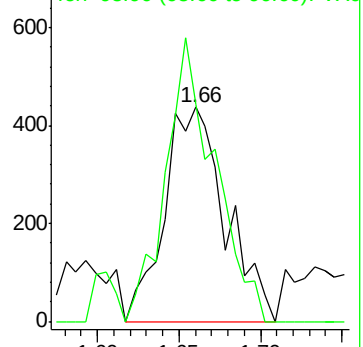
Ion Ratio Lower Upper

94 100

96 101.1 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX002596.D (-167) (-)



#10

Methyl Iodide

Concen: 5.49 ug/l

RT: 2.53 min Scan# 318

Delta R.T. 0.01 min

Lab File: VX002613.D

Acq: 15 Jun 2018 22:49

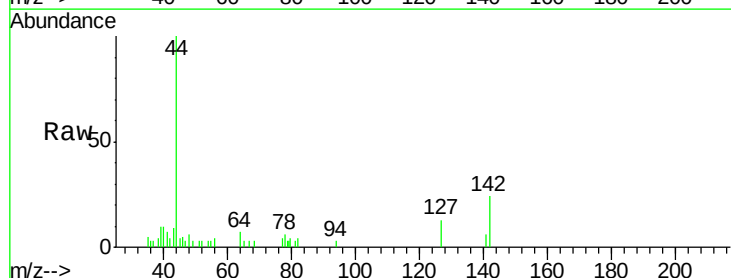
Tgt Ion: 142 Resp: 1132

Ion Ratio Lower Upper

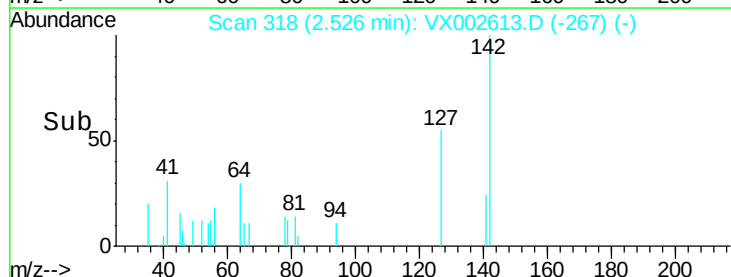
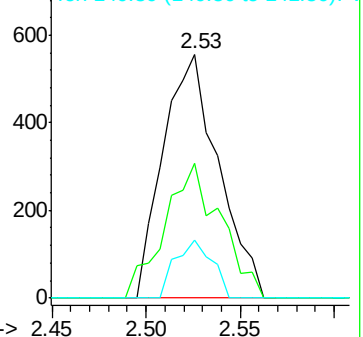
142 100

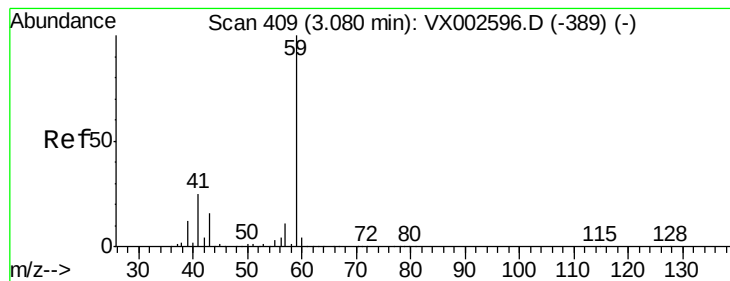
127 55.6 36.6 55.0#

141 15.8 11.3 16.9



Abundance Ion 141.80 (141.50 to 142.50): VX002596.D (-306) (-)





#11

Tert butyl alcohol

Concen: 0.82 ug/l

RT: 3.08 min Scan# 409

Delta R.T. 0.00 min

Lab File: VX002613.D

Acq: 15 Jun 2018 22:49

Instrument :

MSVOA_X

ClientSampleId :

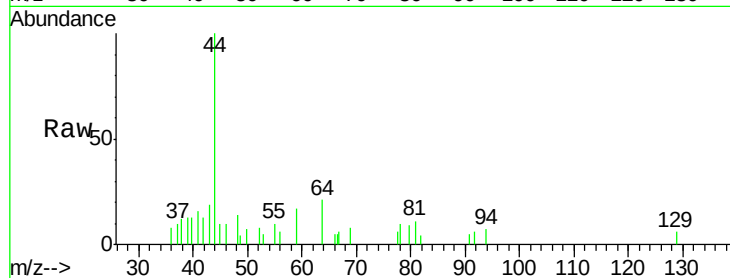
IDW

Tot Ion: 59 Resp: 524

Ion Ratio Lower Upper

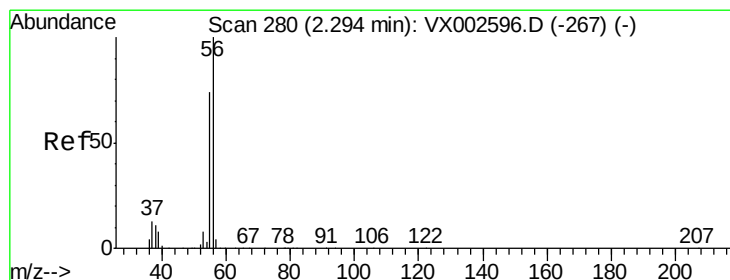
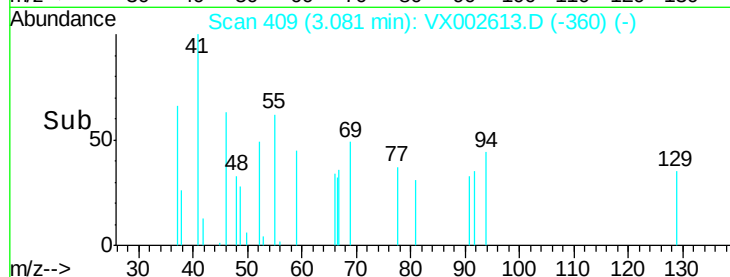
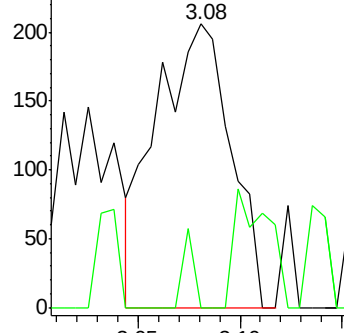
59 100

57 4.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



#13

Acrolein

Concen: 7.04 ug/l

RT: 2.30 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX002613.D

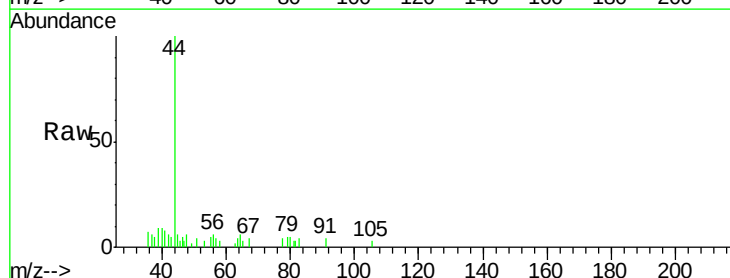
Acq: 15 Jun 2018 22:49

Tgt Ion: 56 Resp: 53

Ion Ratio Lower Upper

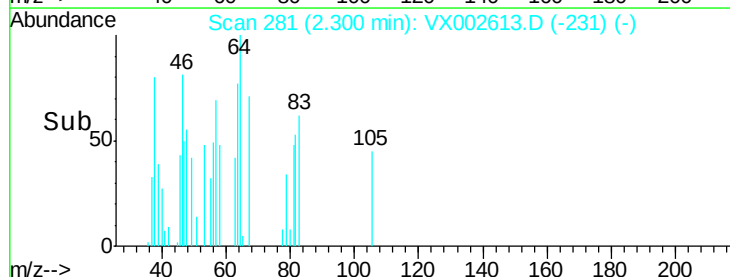
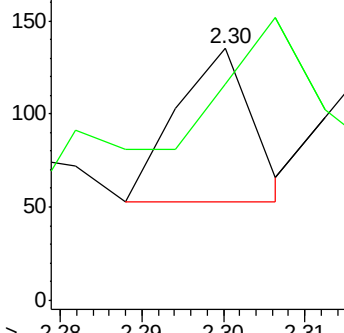
56 100

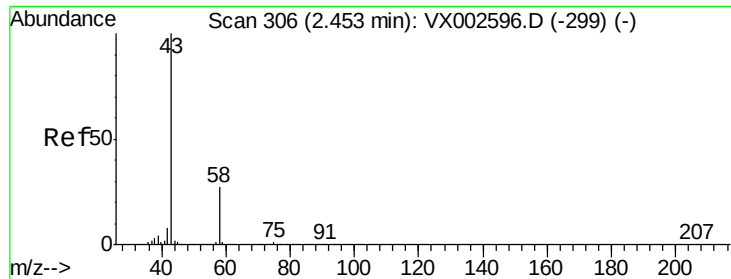
55 234.0 57.0 85.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 6.24 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002613.D

Acq: 15 Jun 2018 22:49

Instrument :

MSVOA_X

ClientSampled :

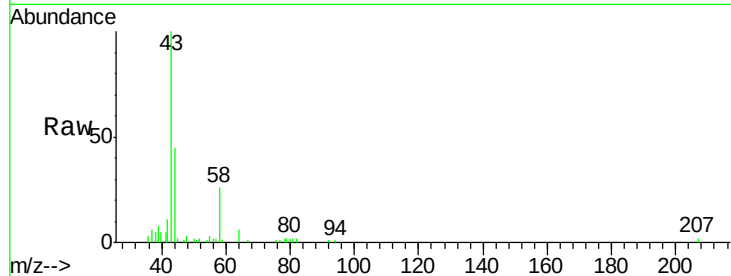
IDW

Tot Ion: 43 Resp: 8537

Ion Ratio Lower Upper

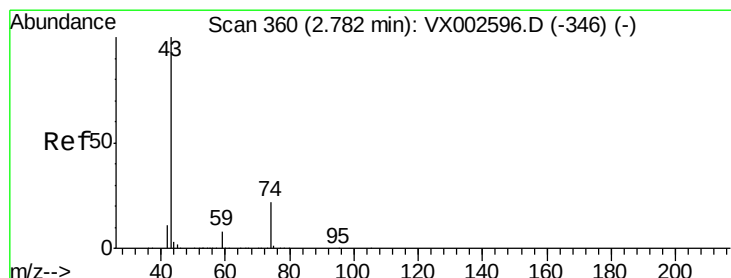
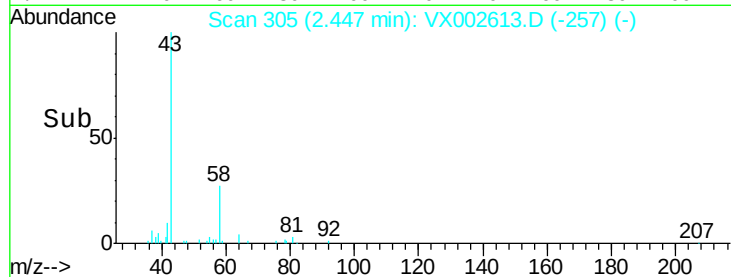
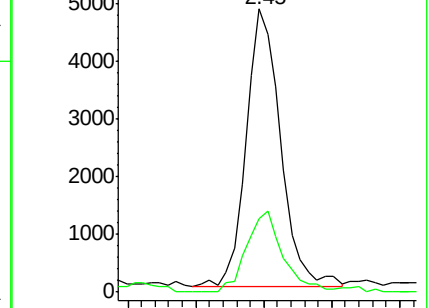
43 100

58 26.4 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 0.27 ug/l

RT: 2.79 min Scan# 361

Delta R.T. 0.01 min

Lab File: VX002613.D

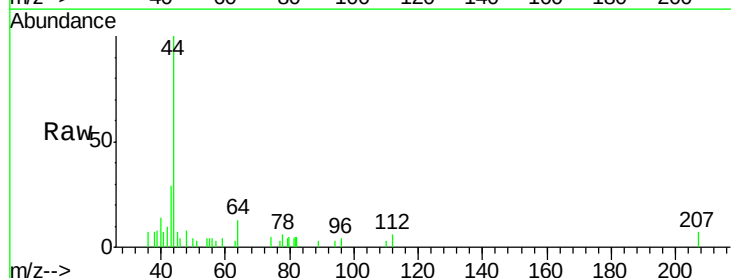
Acq: 15 Jun 2018 22:49

Tgt Ion: 43 Resp: 1000

Ion Ratio Lower Upper

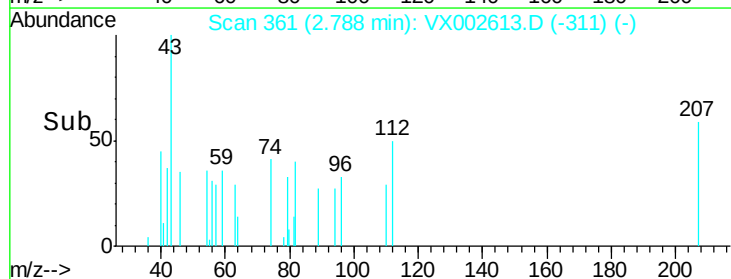
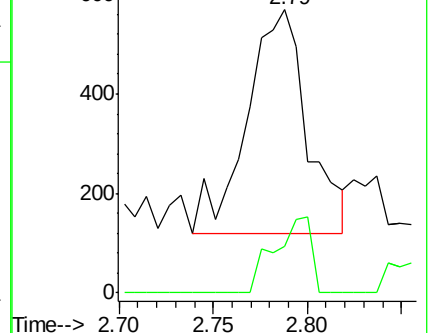
43 100

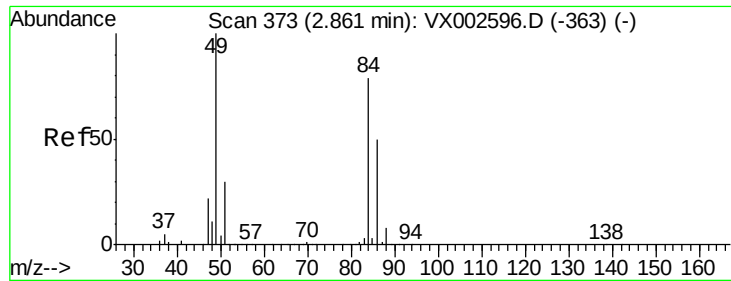
74 20.6 16.7 25.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

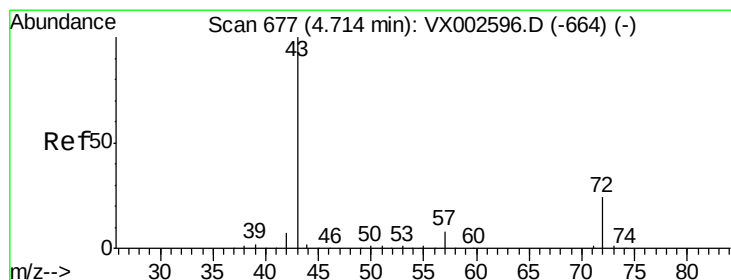
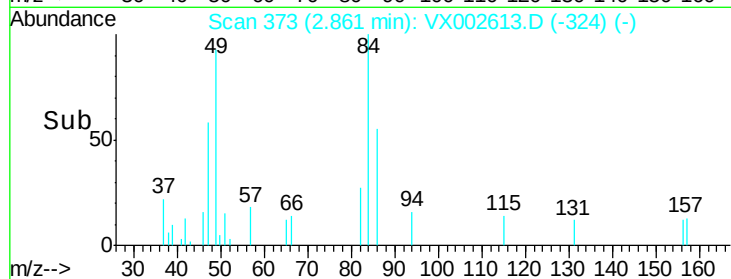
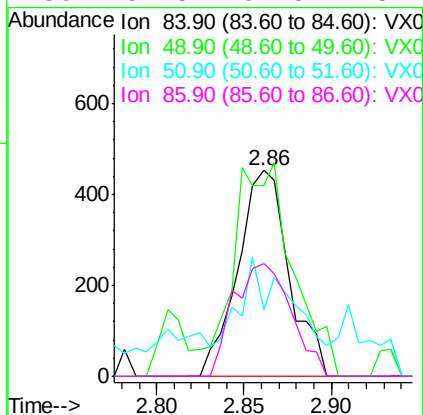
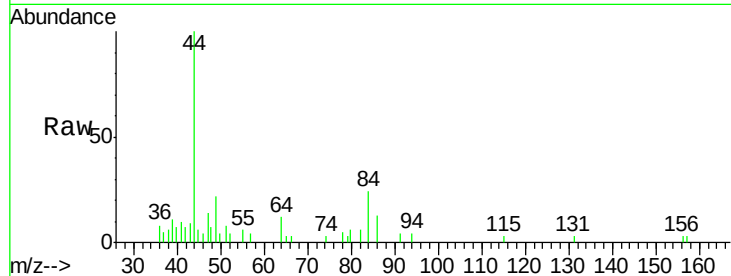




#20
Methylene Chloride
Concen: 0.33 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002613.D
Acq: 15 Jun 2018 22:49

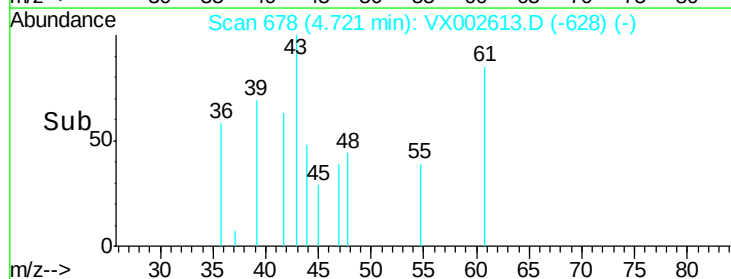
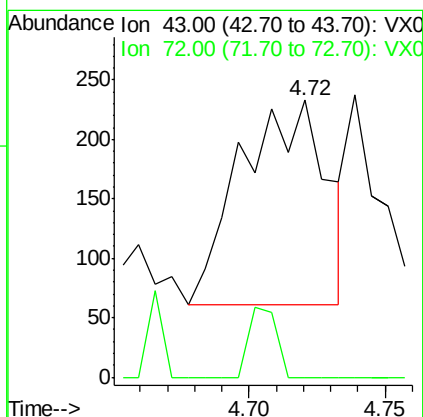
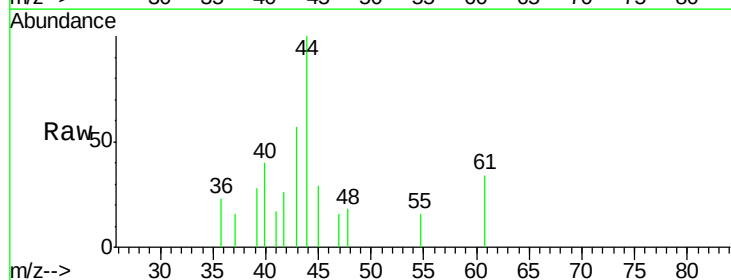
Instrument :
MSVOA_X
ClientSampled :
IDW

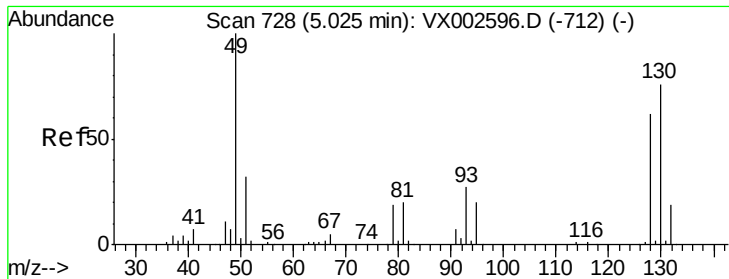
Tot Ion: 84 Resp: 923
Ion Ratio Lower Upper
84 100
49 92.7 107.8 161.6#
51 14.1 32.8 49.2#
86 54.5 52.5 78.7



#25
2-Butanone
Concen: 0.21 ug/l
RT: 4.72 min Scan# 678
Delta R.T. 0.01 min
Lab File: VX002613.D
Acq: 15 Jun 2018 22:49

Tgt Ion: 43 Resp: 375
Ion Ratio Lower Upper
43 100
72 0.0 18.5 27.7#





#28

Bromochloromethane

Concen: 0.78 ug/l

RT: 5.23 min Scan# 761

Delta R.T. 0.20 min

Lab File: VX002613.D

Acq: 15 Jun 2018 22:49

Instrument :

MSVOA_X

ClientSampleId :

IDW

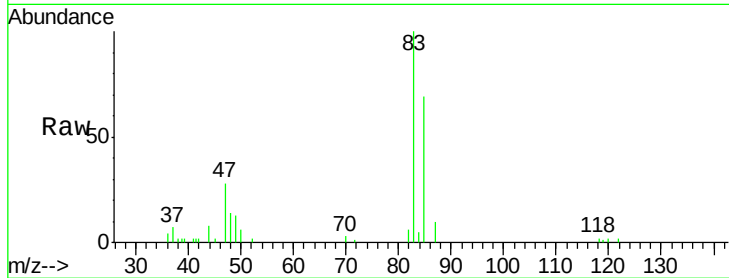
Tot Ion: 49 Resp: 1633

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

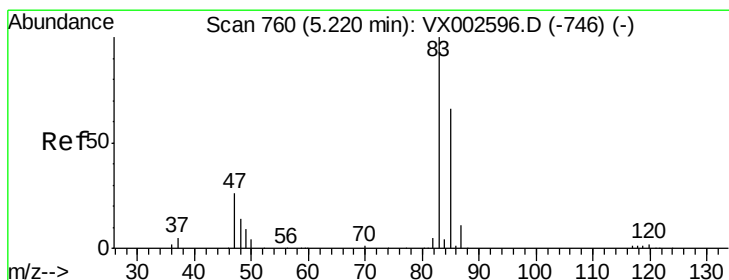
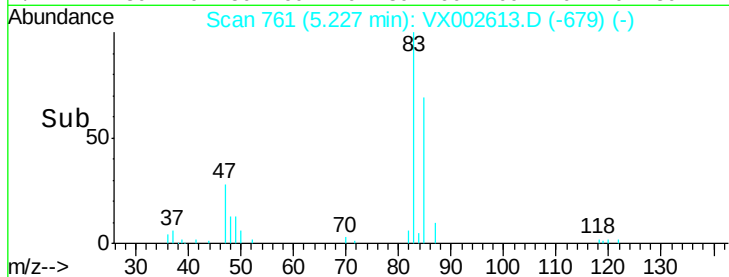
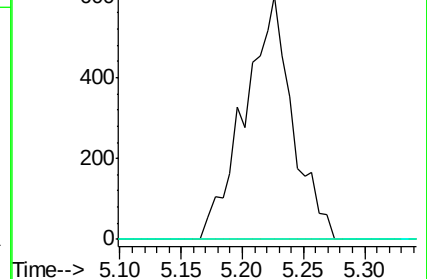
130 0.0 61.2 91.8#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#30

Chloroform

Concen: 3.47 ug/l

RT: 5.21 min Scan# 759

Delta R.T. -0.01 min

Lab File: VX002613.D

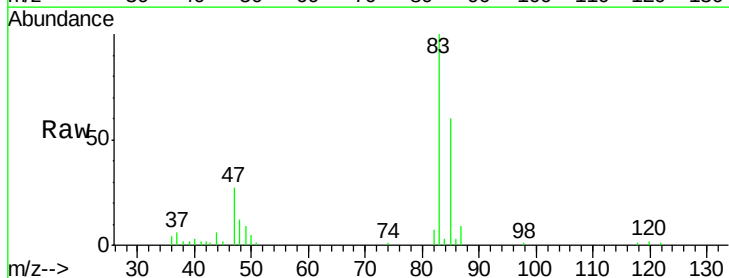
Acq: 15 Jun 2018 22:49

Tgt Ion: 83 Resp: 14862

Ion Ratio Lower Upper

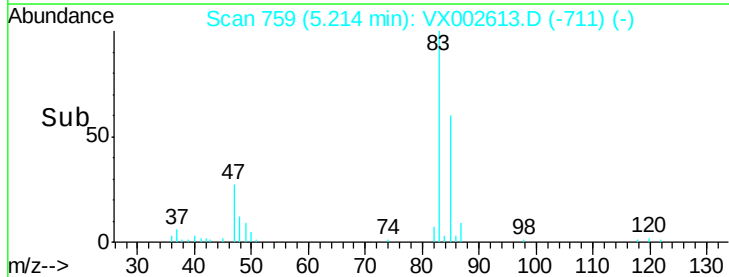
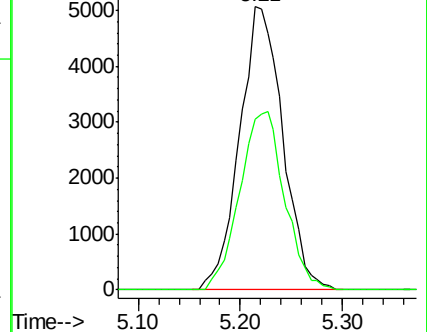
83 100

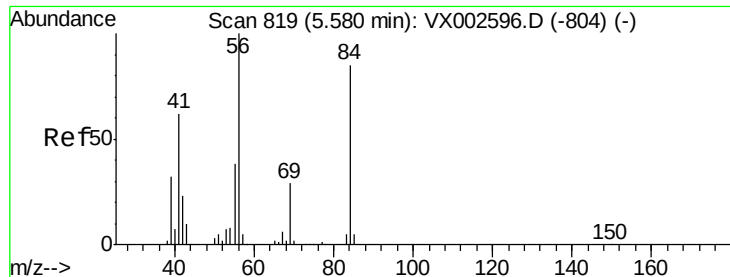
85 60.5 50.4 75.6



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

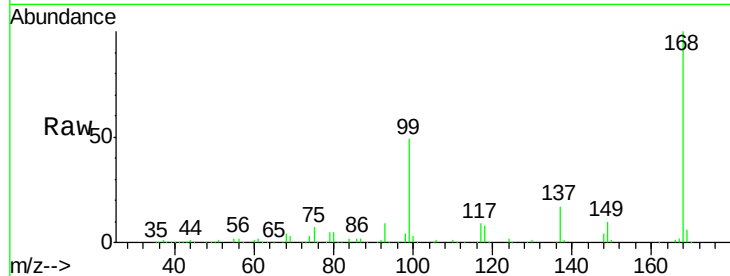




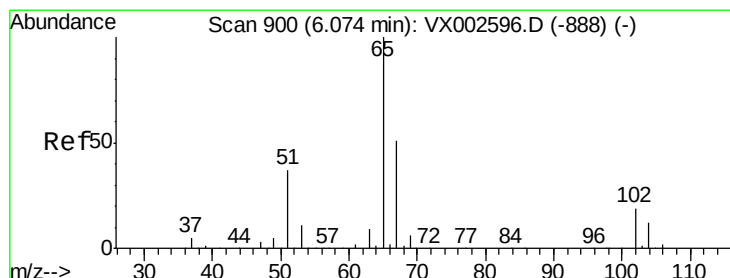
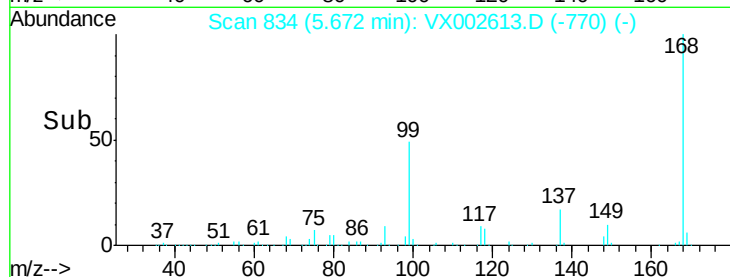
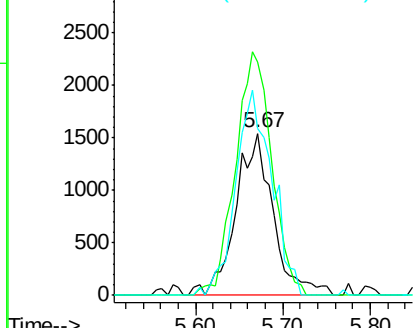
#31
Cyclohexane
Concen: 1.25 ug/l
RT: 5.67 min Scan# 834
Delta R.T. 0.09 min
Lab File: VX002613.D
Acq: 15 Jun 2018 22:49

Instrument :
MSVOA_X
ClientSampleId :
IDW

Tot Ion: 56 Resp: 4586
Ion Ratio Lower Upper
56 100
69 144.1 23.7 35.5#
84 103.1 64.1 96.1#

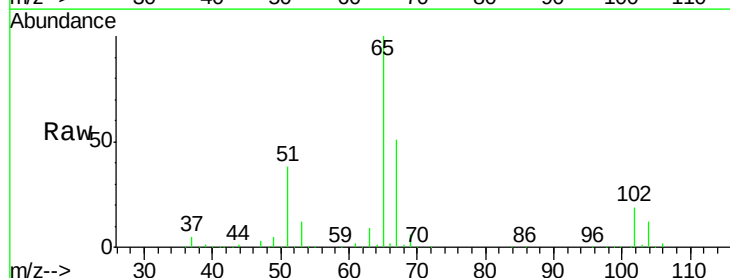


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

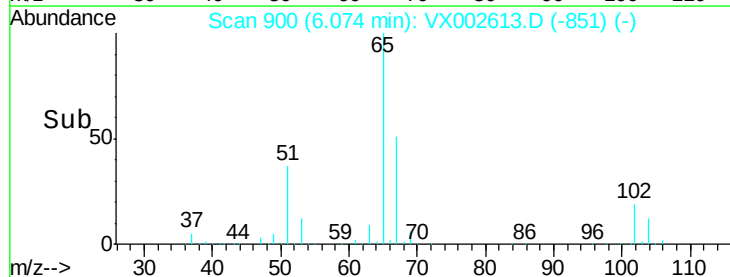
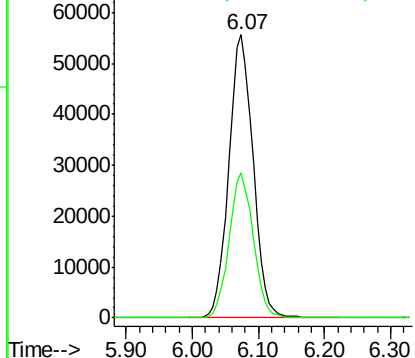


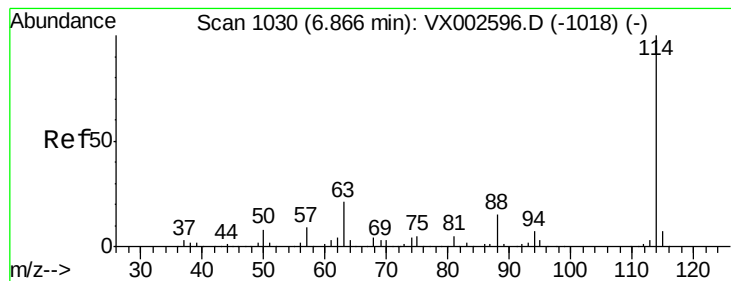
#33
1,2-Dichloroethane-d4
Concen: 45.70 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.00 min
Lab File: VX002613.D
Acq: 15 Jun 2018 22:49

Tgt Ion: 65 Resp: 141670
Ion Ratio Lower Upper
65 100
67 51.0 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX002613.D

Acq: 15 Jun 2018 22:49

Instrument :

MSVOA_X

ClientSampleId :

IDW

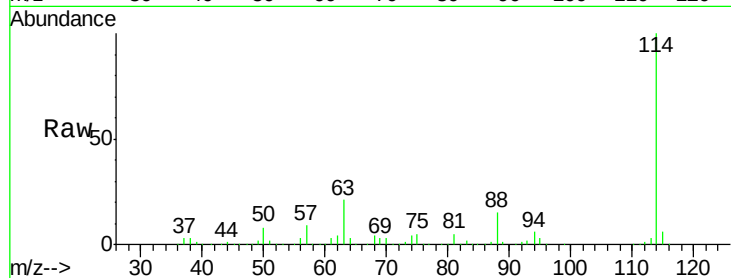
Tot Ion:114 Resp: 291860

Ion Ratio Lower Upper

114 100

63 20.8 0.0 41.4

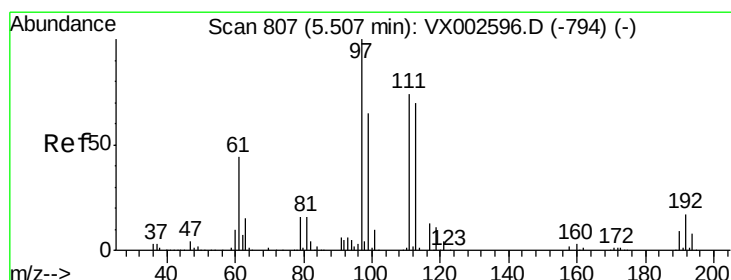
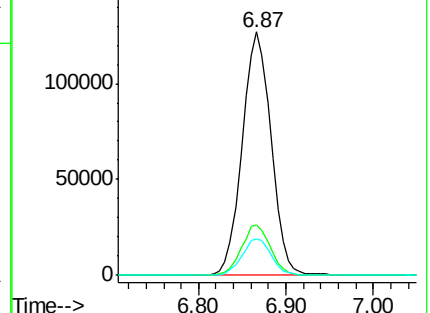
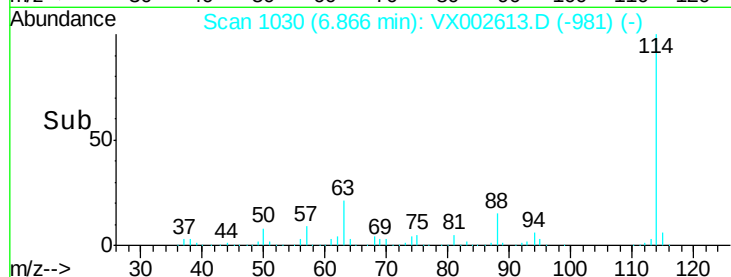
88 14.9 0.0 30.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 45.71 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX002613.D

Acq: 15 Jun 2018 22:49

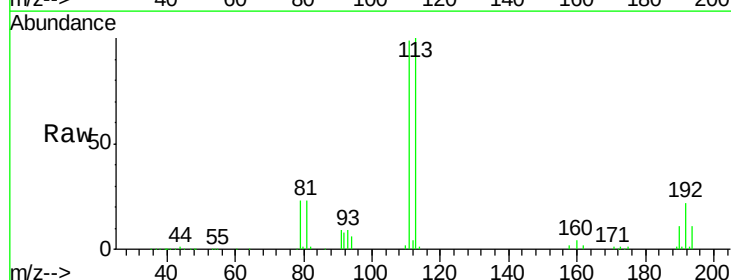
Tgt Ion:113 Resp: 106476

Ion Ratio Lower Upper

113 100

111 102.1 81.4 122.0

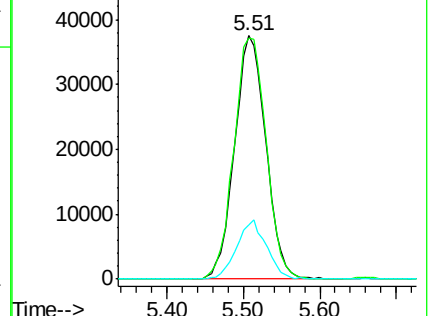
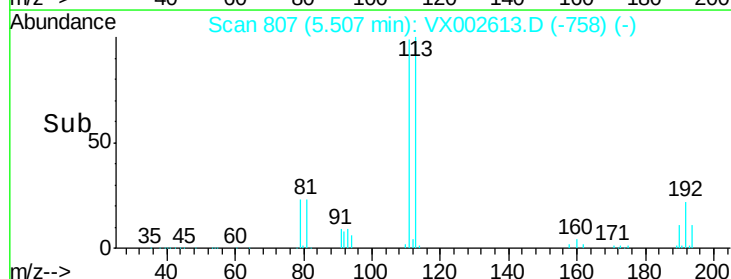
192 23.1 19.1 28.7

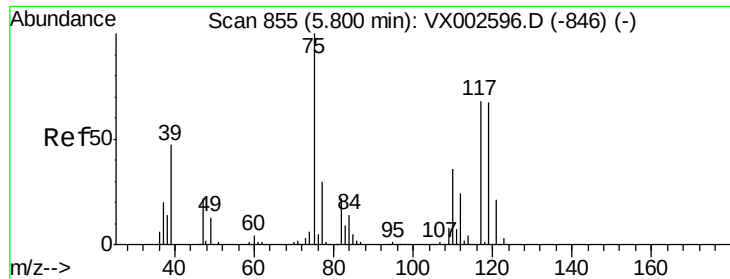


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

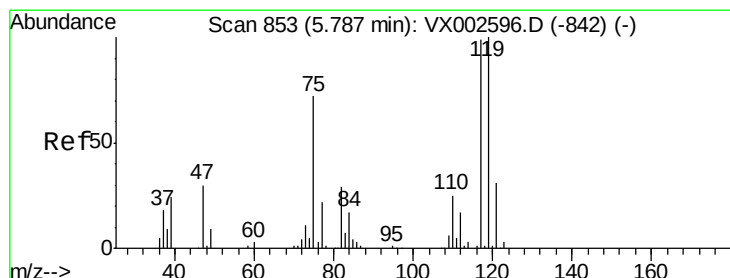
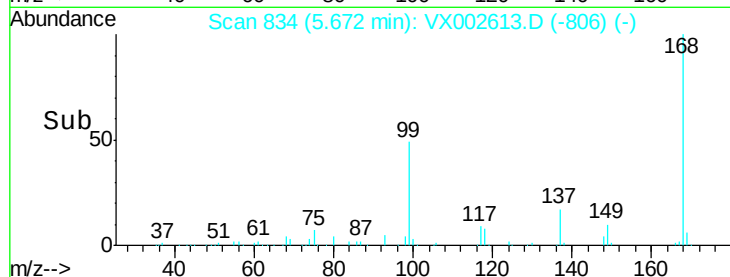
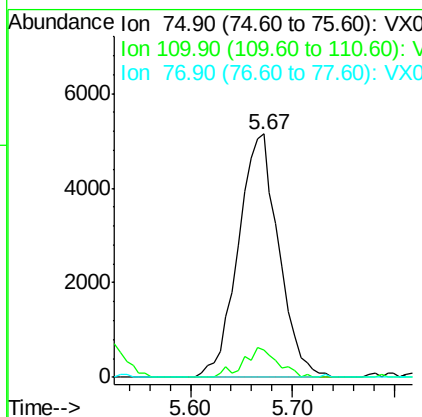
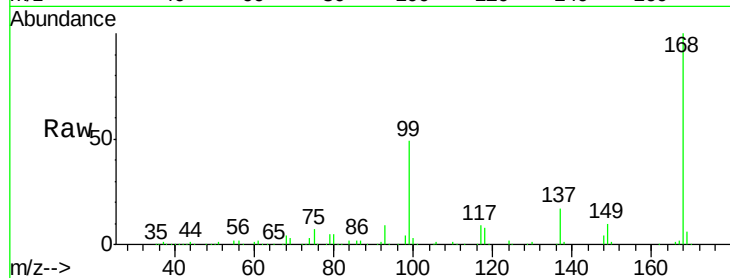




#36
 1,1-Dichloropropene
 Concen: 4.56 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX002613.D
 Acq: 15 Jun 2018 22:49

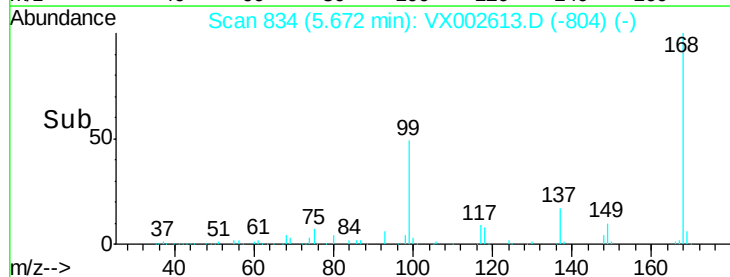
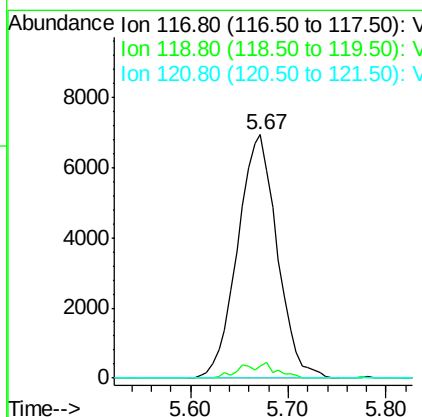
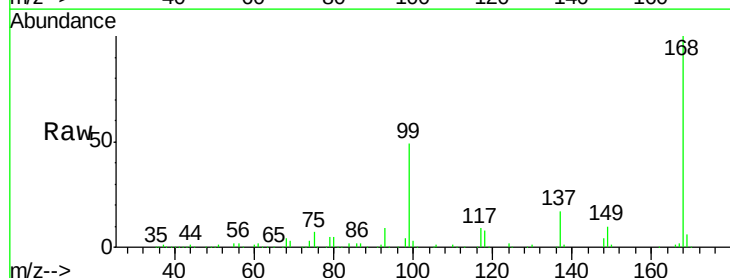
Instrument :
 MSVOA_X
 ClientSampled :
 IDW

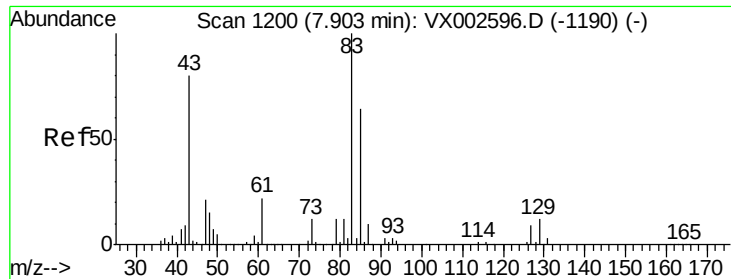
Tot Ion: 75 Resp: 14144
 Ion Ratio Lower Upper
 75 100
 110 10.5 18.1 54.4#
 77 0.0 24.3 36.5#



#38
 Carbon Tetrachloride
 Concen: 6.29 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX002613.D
 Acq: 15 Jun 2018 22:49

Tgt Ion: 117 Resp: 19428
 Ion Ratio Lower Upper
 117 100
 119 4.8 77.4 116.0#
 121 0.0 24.4 36.6#





#47

Bromodichloromethane

Concen: 0.52 ug/l

RT: 7.90 min Scan# 1200

Delta R.T. 0.00 min

Lab File: VX002613.D

Acq: 15 Jun 2018 22:49

Instrument :

MSVOA_X

ClientSampled :

IDW

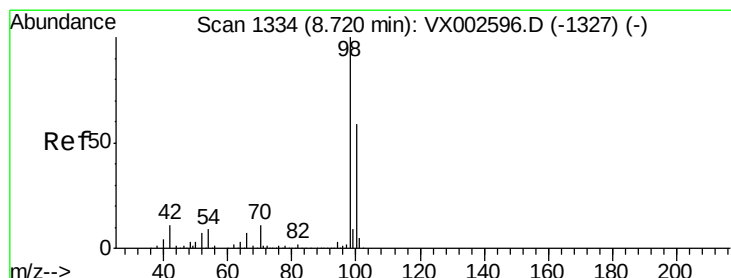
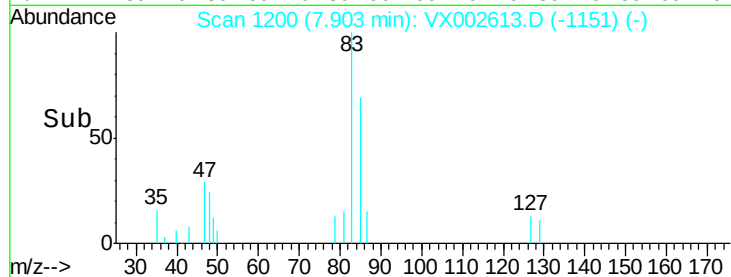
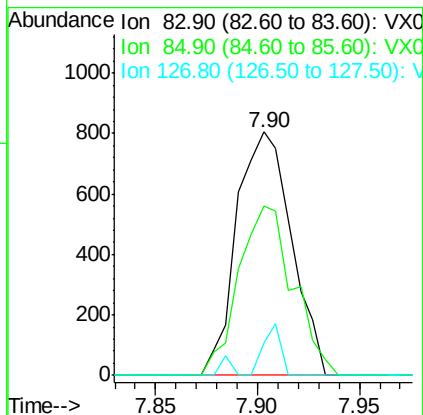
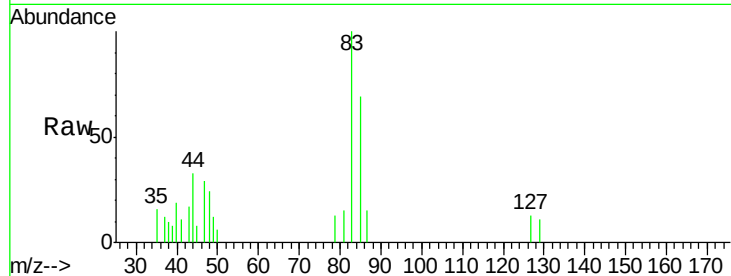
Tot Ion: 83 Resp: 1501

Ion Ratio Lower Upper

83 100

85 69.5 50.3 75.5

127 13.4 7.0 10.4#



#50

Toluene-d8

Concen: 47.57 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002613.D

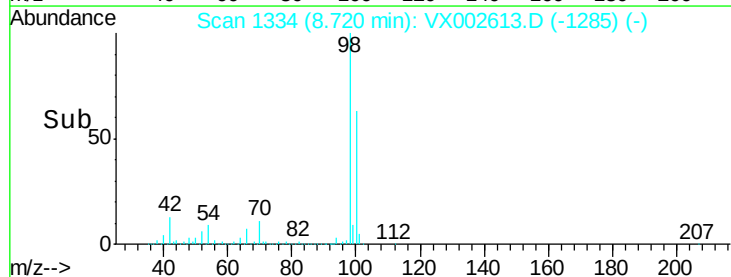
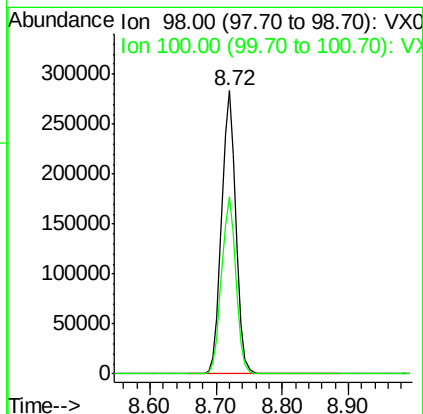
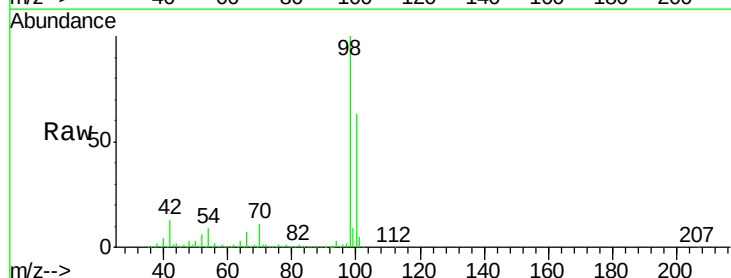
Acq: 15 Jun 2018 22:49

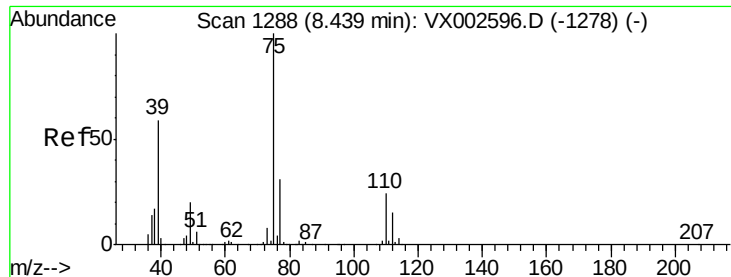
Tgt Ion: 98 Resp: 420761

Ion Ratio Lower Upper

98 100

100 63.5 50.9 76.3





#53

t-1,3-Dichloropropene

Concen: 2.40 ug/l

RT: 8.44 min Scan# 1288

Delta R.T. 0.00 min

Lab File: VX002613.D

Acq: 15 Jun 2018 22:49

Instrument :

MSVOA_X

ClientSampleId :

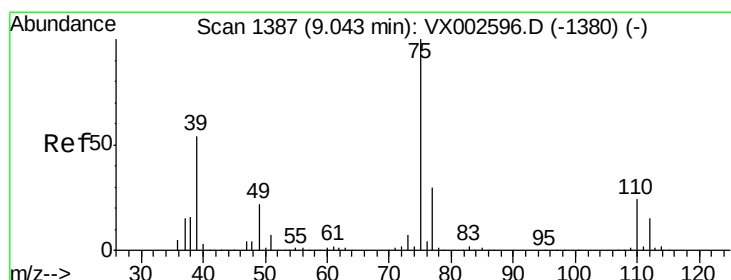
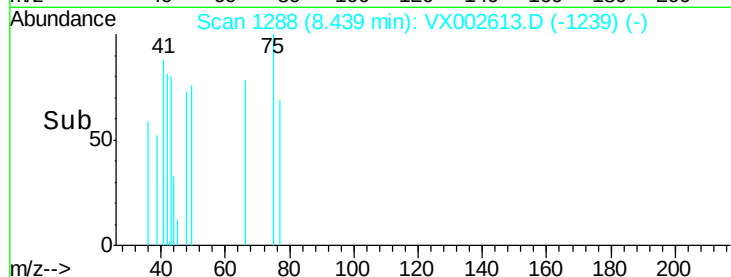
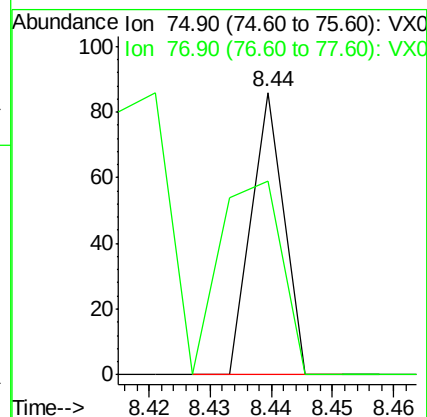
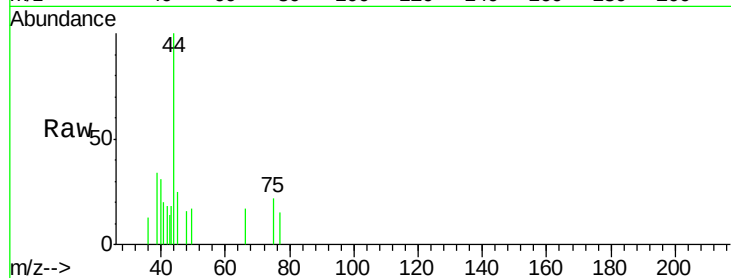
IDW

Tot Ion: 75 Resp: 31

Ion Ratio Lower Upper

75 100

77 68.6 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: VX002613.D

Acq: 15 Jun 2018 22:49

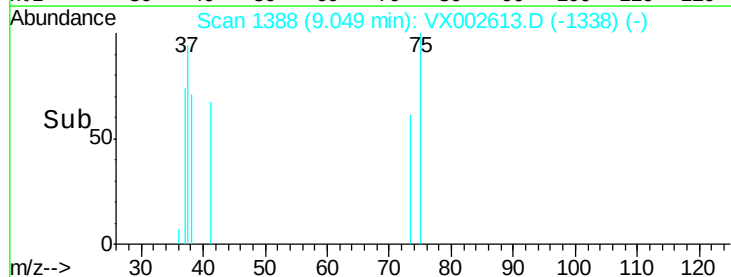
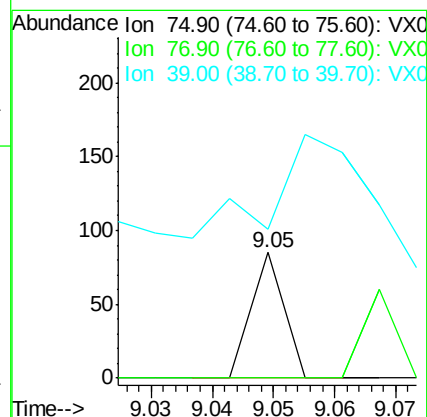
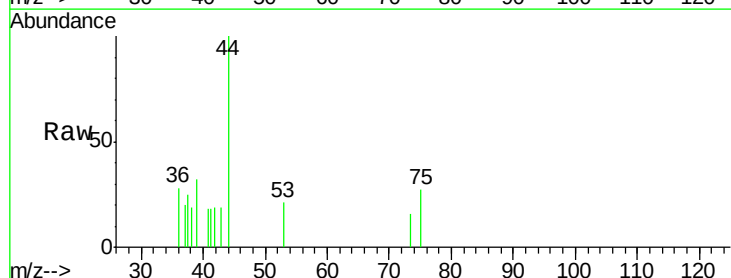
Tgt Ion: 75 Resp: 31

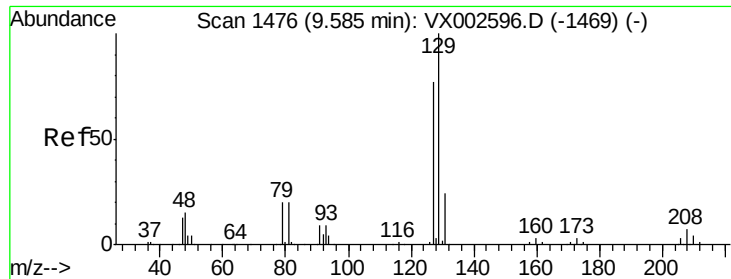
Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

39 7.1 42.4 63.6#

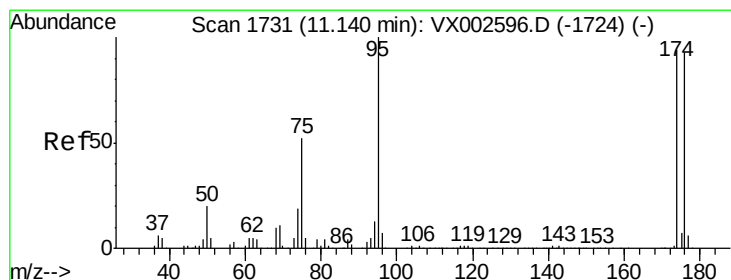
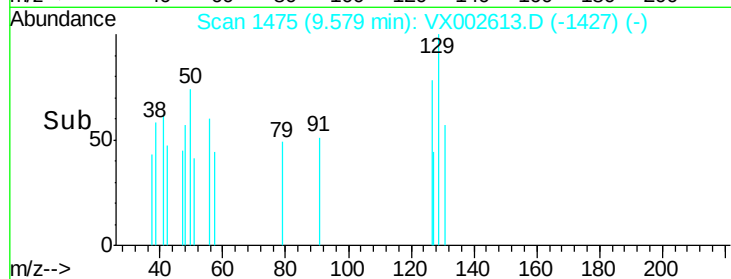
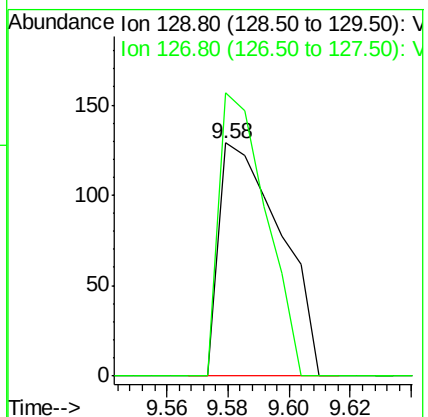
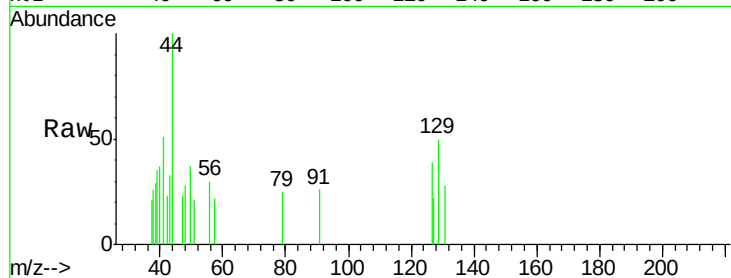




#60
Dibromochloromethane
Concen: 3.82 ug/l
RT: 9.58 min Scan# 1475
Delta R.T. -0.01 min
Lab File: VX002613.D
Acq: 15 Jun 2018 22:49

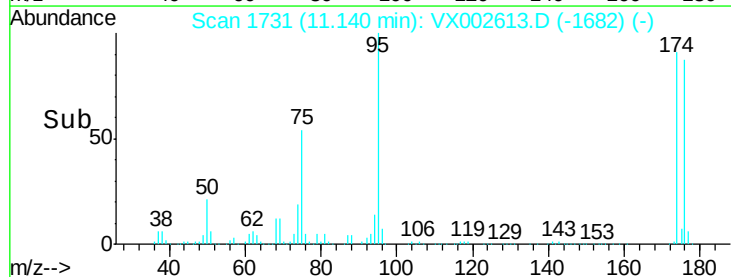
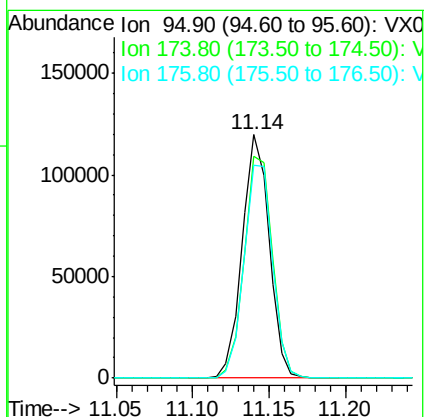
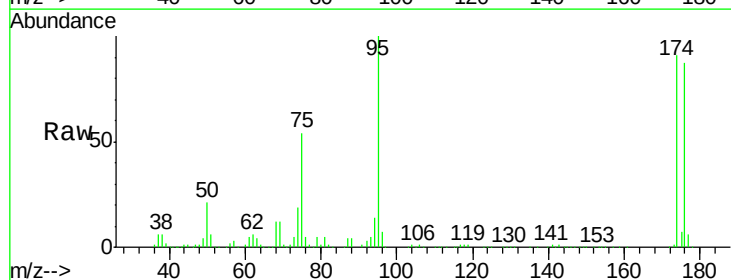
Instrument :
MSVOA_X
ClientSampleId :
IDW

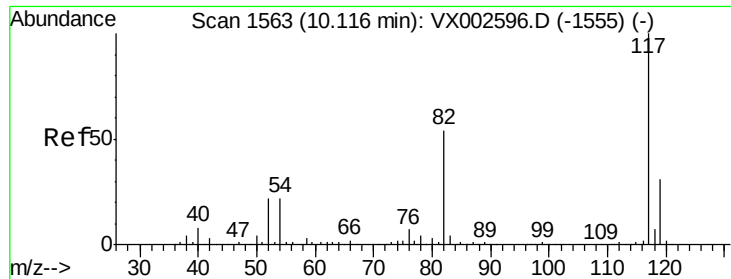
Tot Ion:129 Resp: 179
Ion Ratio Lower Upper
129 100
127 92.7 38.5 115.3



#62
4-Bromofluorobenzene
Concen: 43.82 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002613.D
Acq: 15 Jun 2018 22:49

Tgt Ion: 95 Resp: 146853
Ion Ratio Lower Upper
95 100
174 95.6 0.0 187.4
176 92.6 0.0 181.0





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX002613.D

Acq: 15 Jun 2018 22:49

Instrument :

MSVOA_X

ClientSampled :

IDW

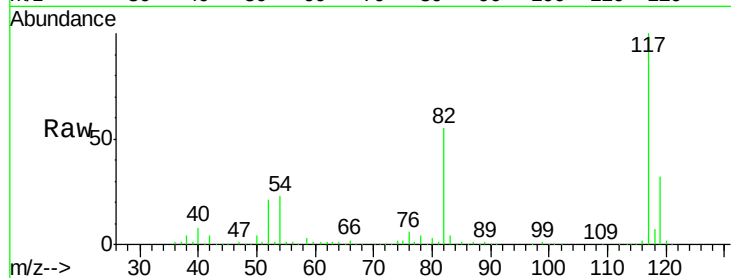
Tot Ion:117 Resp: 274245

Ion Ratio Lower Upper

117 100

82 55.0 45.0 67.4

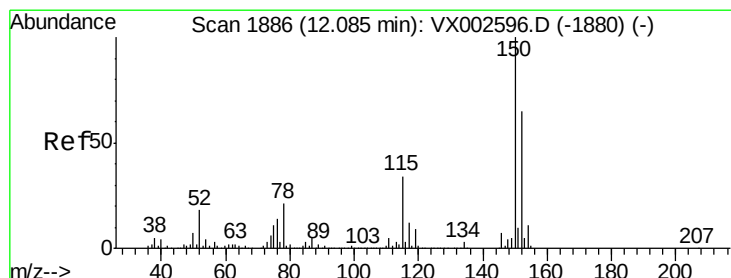
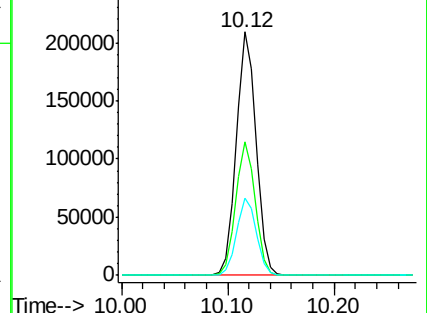
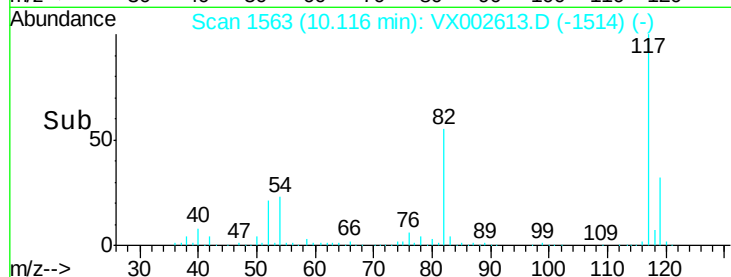
119 32.0 25.8 38.6



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX002613.D

Acq: 15 Jun 2018 22:49

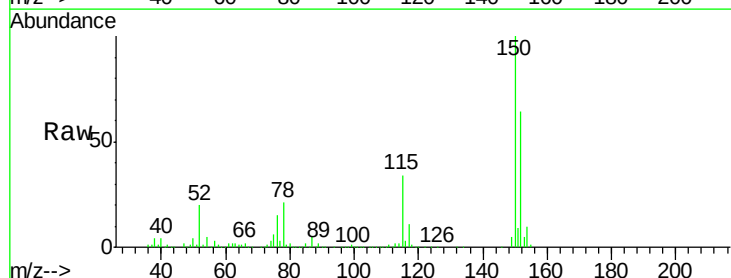
Tgt Ion:152 Resp: 155393

Ion Ratio Lower Upper

152 100

115 54.6 40.1 120.2

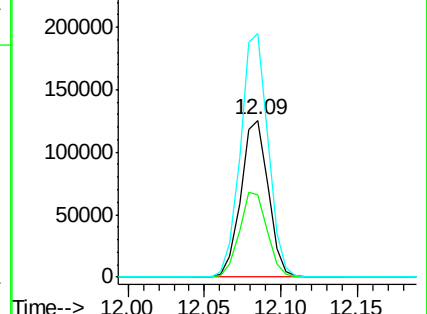
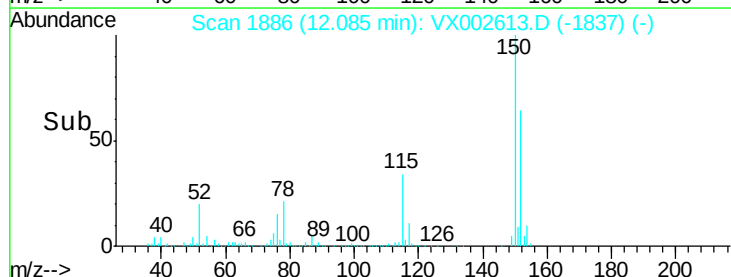
150 156.8 0.0 347.2

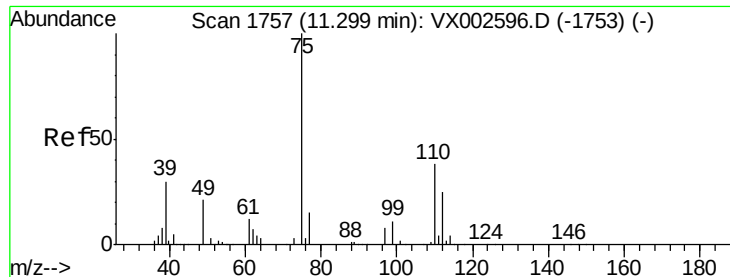


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 26.98 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002613.D

Acq: 15 Jun 2018 22:49

Instrument :

MSVOA_X

ClientSampled :

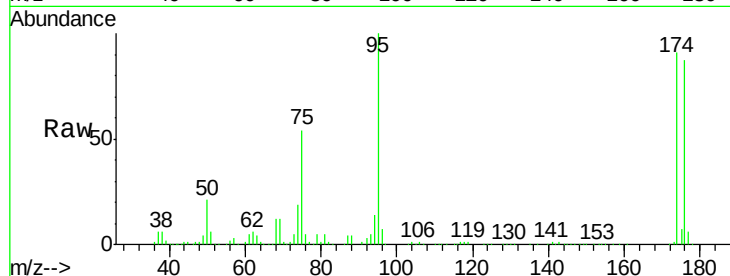
IDW

Tot Ion: 75 Resp: 79123

Ion Ratio Lower Upper

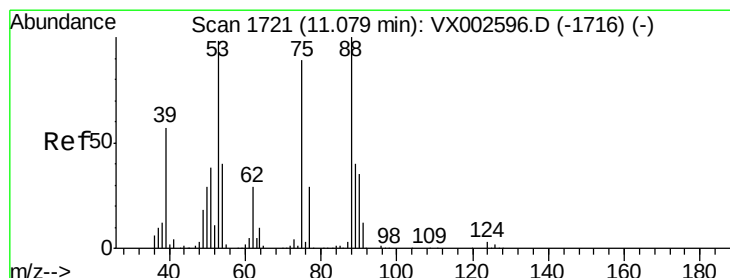
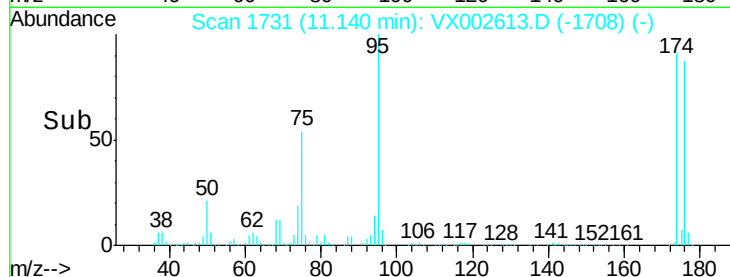
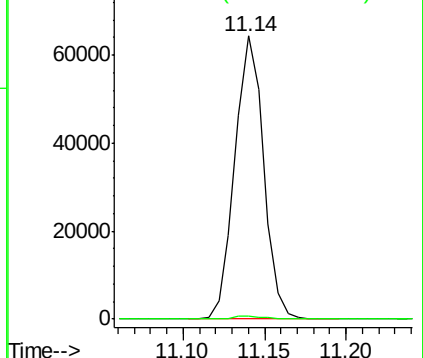
75 100

77 1.3 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: 83.30 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002613.D

Acq: 15 Jun 2018 22:49

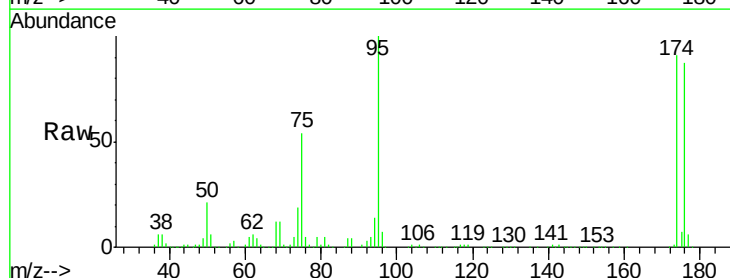
Tgt Ion: 75 Resp: 79123

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

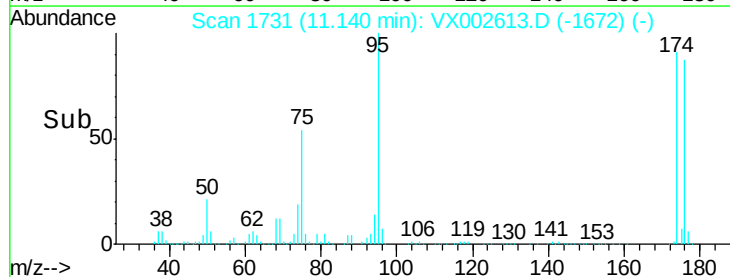
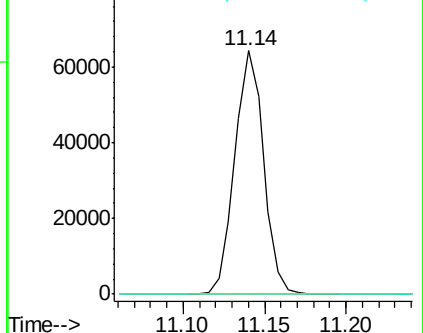
89 0.0 38.2 57.2#

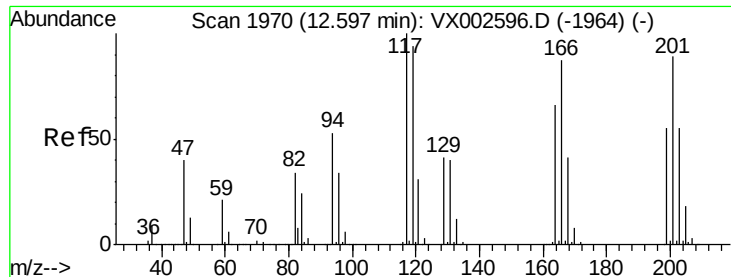


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#90

Hexachloroethane

Concen: 2.64 ug/l

RT: 12.60 min Scan# 1970

Delta R.T. 0.00 min

Lab File: VX002613.D

Acq: 15 Jun 2018 22:49

Instrument :

MSVOA_X

ClientSampleId :

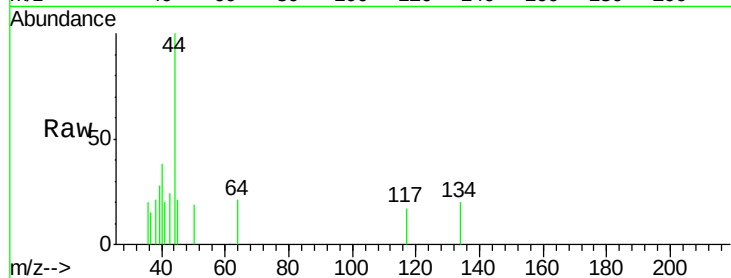
IDW

Tot Ion:117 Resp: 22

Ion Ratio Lower Upper

117 100

201 0.0 49.0 147.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

