

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091418\
 Data File : VN051182.D
 Acq On : 14 Sep 2018 11:55
 Operator : MD\SY
 Sample : J4907-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 CBH-591(1)

Quant Time: Sep 14 23:38:47 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 29 01:38:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	102162	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	520008	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	412664	30.00	ug/l	0.00

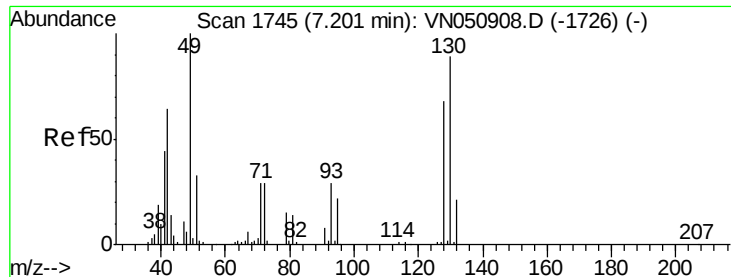
System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	191805	29.42	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.07%
60) 4-Bromofluorobenzene	12.40	95	123763	20.17	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	67.23%
63) Toluene-d8	10.09	98	591015	30.71	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.37%

Target Compounds

						Ovalue
3) Chloromethane	2.06	50	2250	0.30	ug/l	99
5) Bromomethane	2.58	94	3397	0.75	ug/l	89
12) Methyl Acetate	4.33	43	2081	0.33	ug/l	92
15) Acetone	3.83	58	278	0.50	ug/l	78
16) Carbon Disulfide	4.05	76	4185	0.25	ug/l #	89
18) Methylene Chloride	4.56	84	1862	0.29	ug/l	93
23) tert-Butyl Alcohol	4.78	59	248	0.54	ug/l #	100
51) Ethyl methacrylate	10.10	69	1997	0.30	ug/l	89
58) 4-Methyl-2-Pentanone	9.99	43	1188	0.25	ug/l #	72
59) 2-Hexanone	10.76	43	1878	0.61	ug/l #	59
70) Isopropylbenzene	12.25	105	5731	0.25	ug/l	95
77) t-1,4-Dichloro-2-butene	12.40	75	56177	36.24	ug/l #	13
89) 1,2,4-Trichlorobenzene	14.91	180	1985	0.44	ug/l	98
90) Hexachlorobutadiene	15.01	225	1412	0.46	ug/l	93
91) Naphthalene	15.13	128	4856	8.92	ug/l	98
92) 1,2,3-Trichlorobenzene	15.32	180	2299	0.50	ug/l	96

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



#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. -0.00 min

Lab File: VN051182.D

Acq: 14 Sep 2018 11:55

Instrument :

MSVOA_N

ClientSampled :

CBH-591(1)

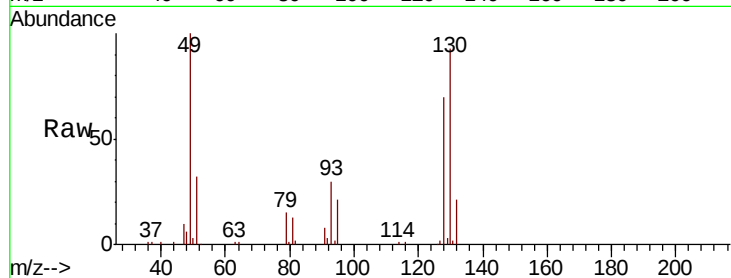
Tot Ion:128 Resp: 102162

Ion Ratio Lower Upper

128 100

49 143.8 0.0 380.3

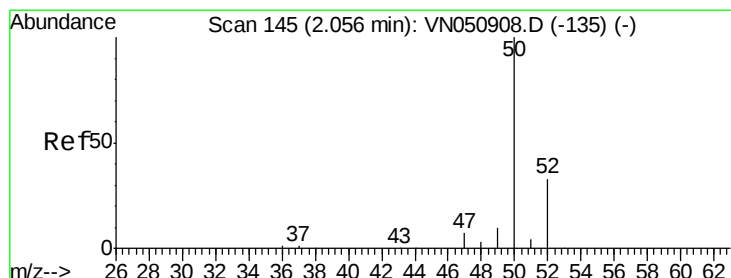
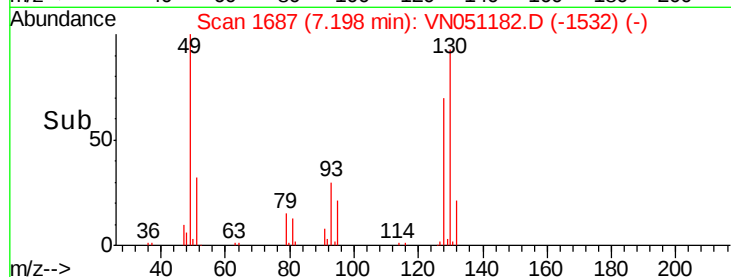
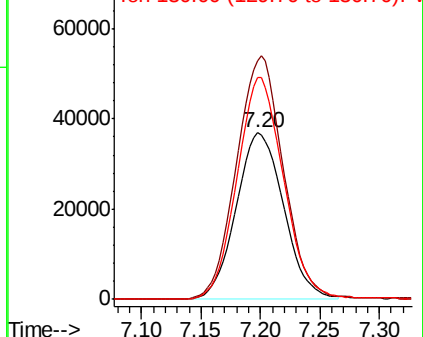
130 130.2 0.0 325.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.30 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN051182.D

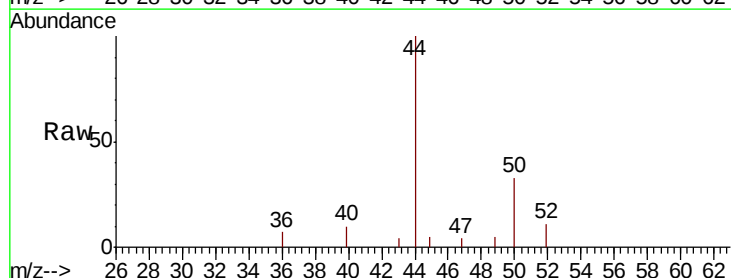
Acq: 14 Sep 2018 11:55

Tgt Ion: 50 Resp: 2250

Ion Ratio Lower Upper

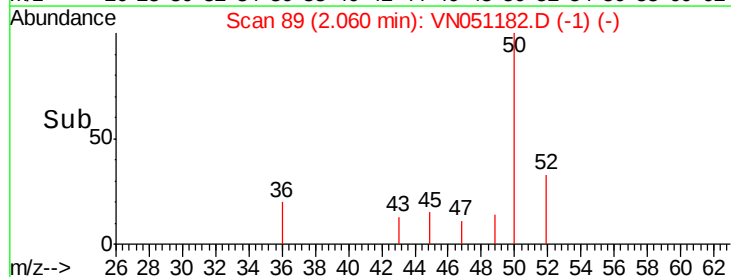
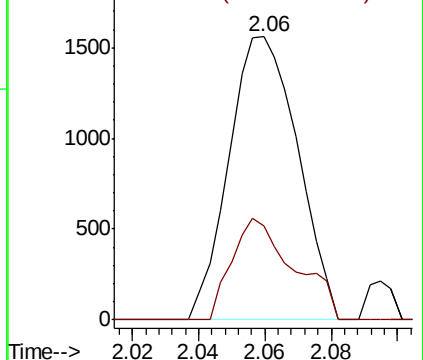
50 100

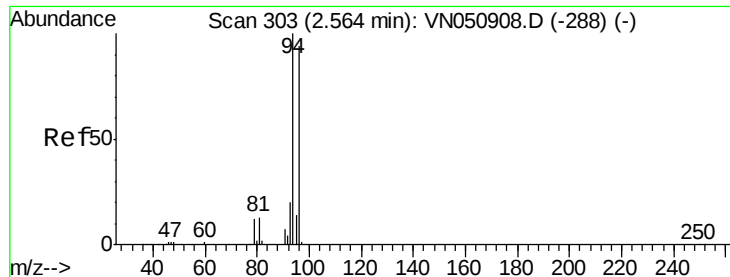
52 33.3 26.2 39.4



Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0





#5

Bromomethane

Concen: 0.75 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.01 min

Lab File: VN051182.D

Acq: 14 Sep 2018 11:55

Instrument :

MSVOA_N

ClientSampleId :

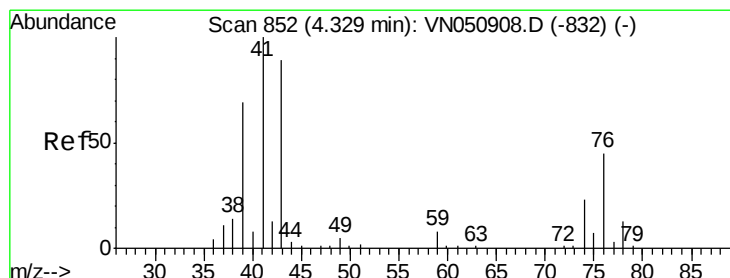
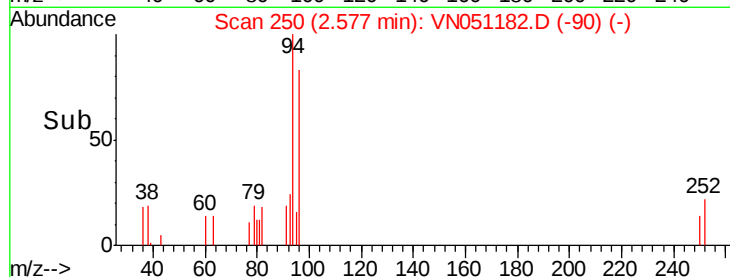
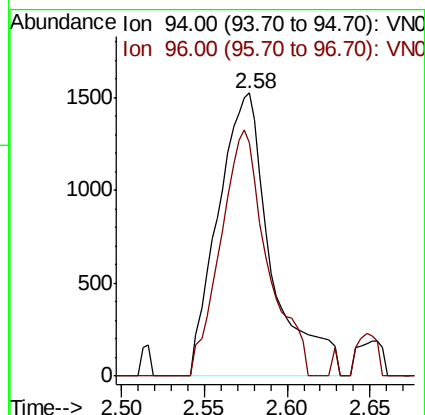
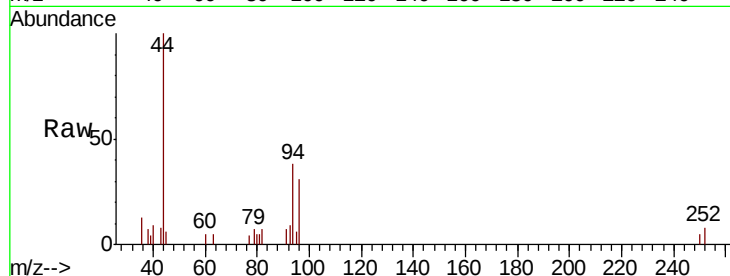
CBH-591(1)

Tot Ion: 94 Resp: 3397

Ion Ratio Lower Upper

94 100

96 82.5 74.9 112.3



#12

Methyl Acetate

Concen: 0.33 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.00 min

Lab File: VN051182.D

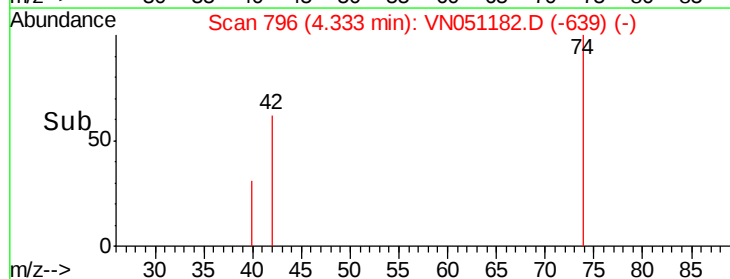
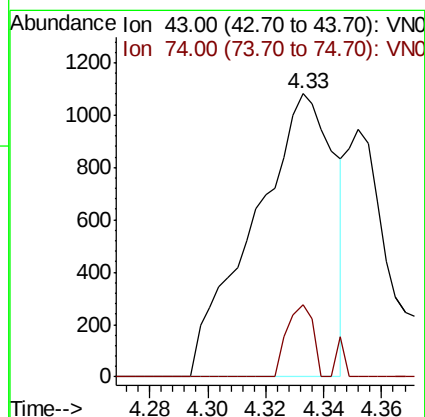
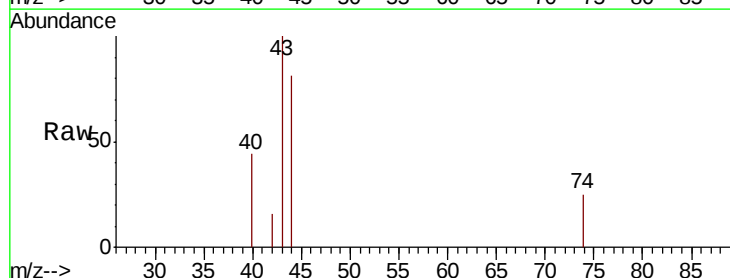
Acq: 14 Sep 2018 11:55

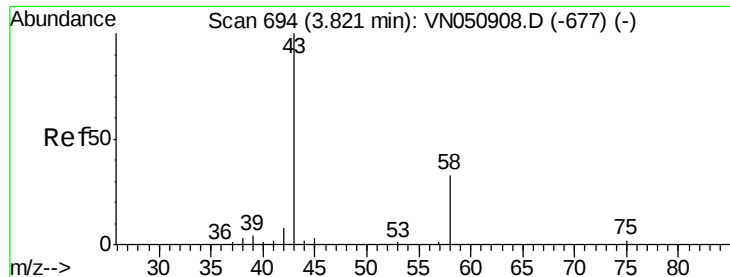
Tgt Ion: 43 Resp: 2081

Ion Ratio Lower Upper

43 100

74 30.0 20.6 31.0





#15

Acetone

Concen: 0.50 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN051182.D

Acq: 14 Sep 2018 11:55

Instrument :

MSVOA_N

ClientSampled :

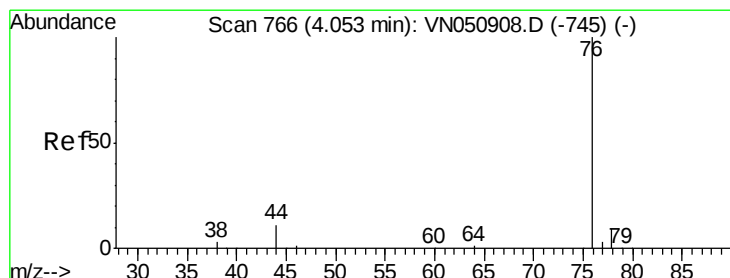
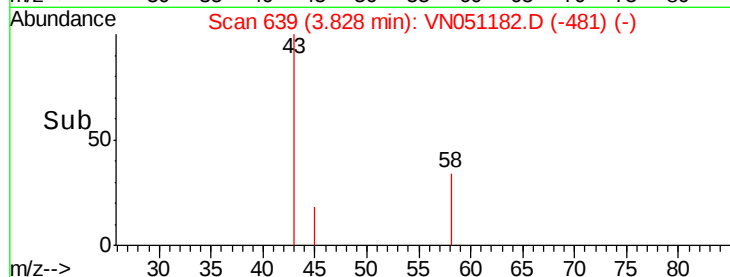
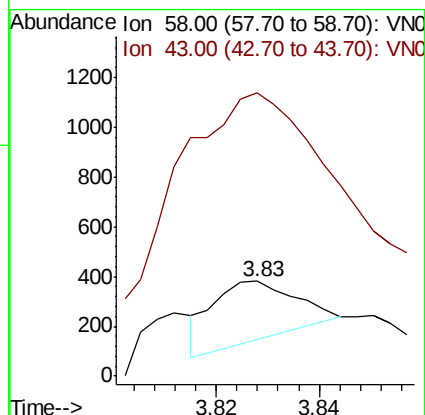
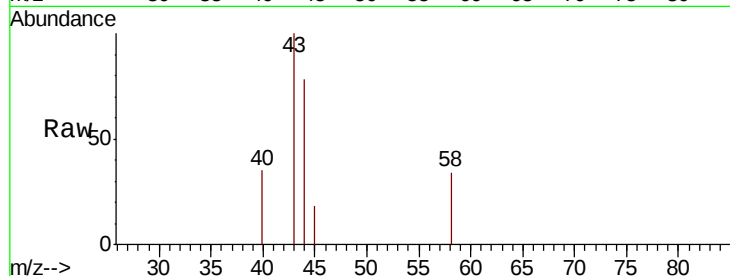
CBH-591(1)

Tot Ion: 58 Resp: 278

Ion Ratio Lower Upper

58 100

43 255.2 239.4 359.0



#16

Carbon Disulfide

Concen: 0.25 ug/l

RT: 4.05 min Scan# 708

Delta R.T. -0.00 min

Lab File: VN051182.D

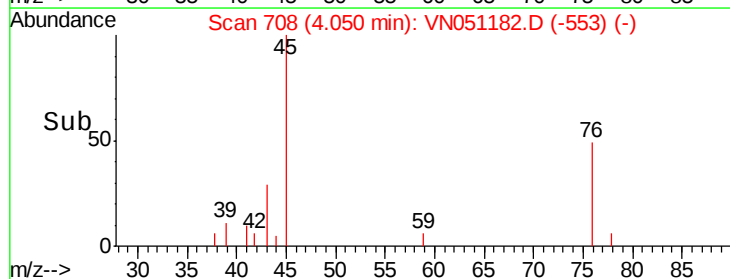
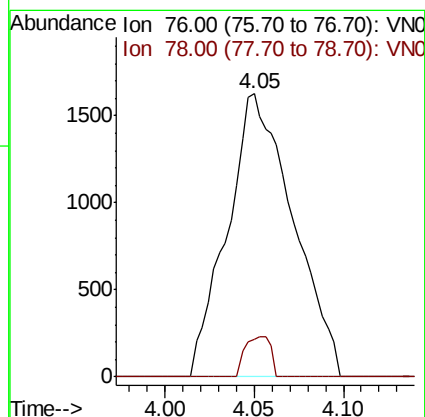
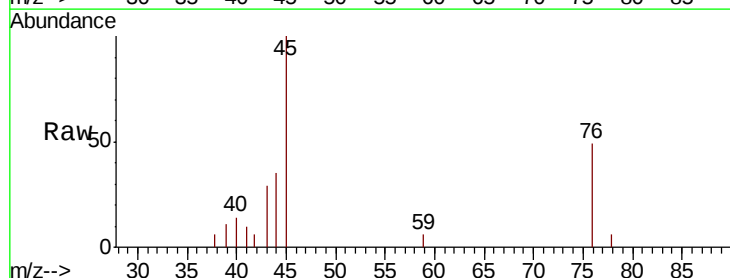
Acq: 14 Sep 2018 11:55

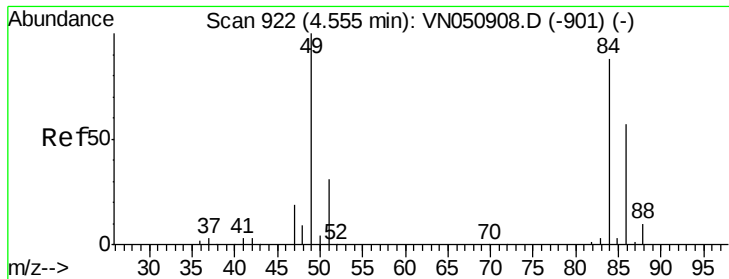
Tgt Ion: 76 Resp: 4185

Ion Ratio Lower Upper

76 100

78 13.1 7.3 10.9#

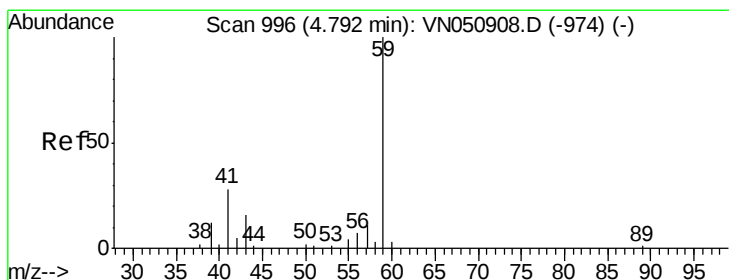
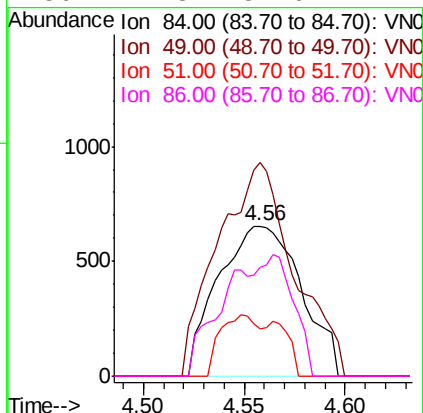
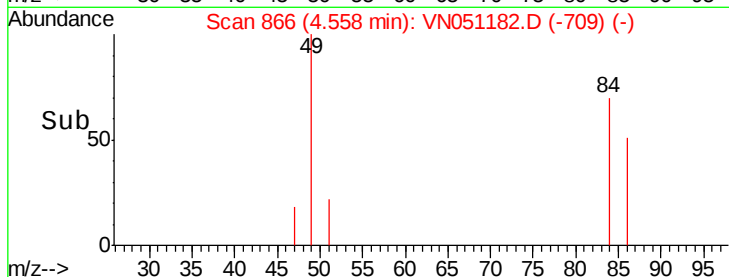
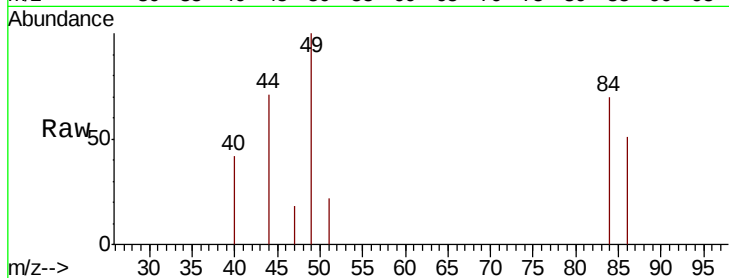




#18
Methvlene Chloride
Concen: 0.29 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN051182.D
Acq: 14 Sep 2018 11:55

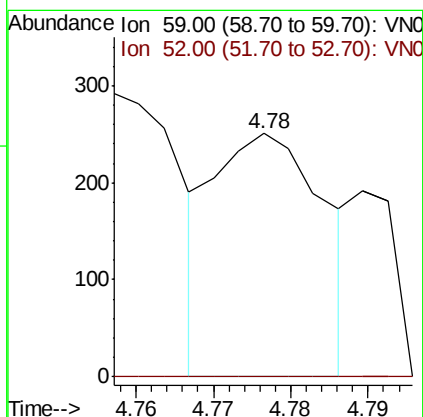
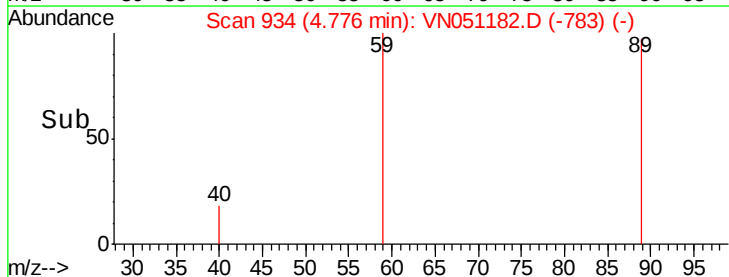
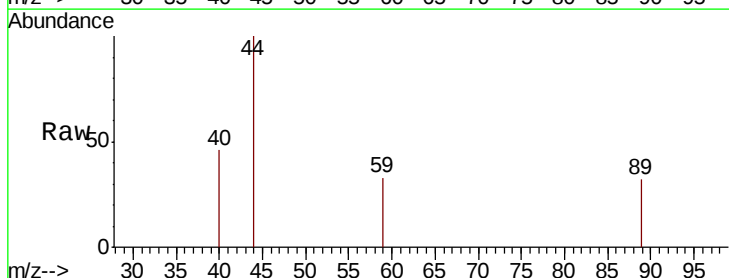
Instrument :
MSVOA_N
ClientSampled :
CBH-591(1)

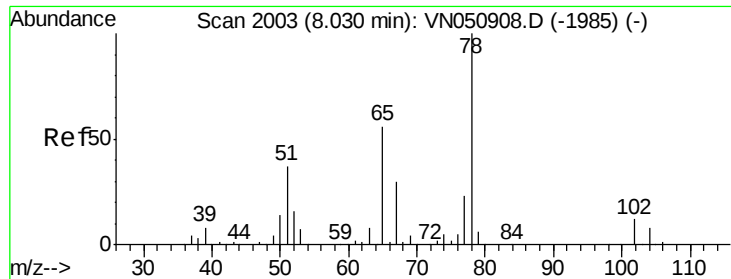
Tot Ion: 84 Resp: 1862
Ion Ratio Lower Upper
84 100
49 119.1 90.6 135.8
51 31.4 28.4 42.6
86 72.3 51.6 77.4



#23
tert-Butyl Alcohol
Concen: 0.54 ug/l
RT: 4.78 min Scan# 934
Delta R.T. -0.02 min
Lab File: VN051182.D
Acq: 14 Sep 2018 11:55

Tgt Ion: 59 Resp: 248
Ion Ratio Lower Upper
59 100
52 0.0 0.1 0.1#





#27

1,2-Dichloroethane-d4

Concen: 29.42 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051182.D

Acq: 14 Sep 2018 11:55

Instrument :

MSVOA_N

ClientSampleId :

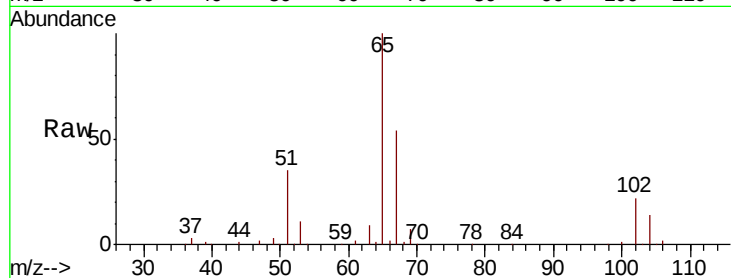
CBH-591(1)

Tot Ion: 65 Resp: 191805

Ion Ratio Lower Upper

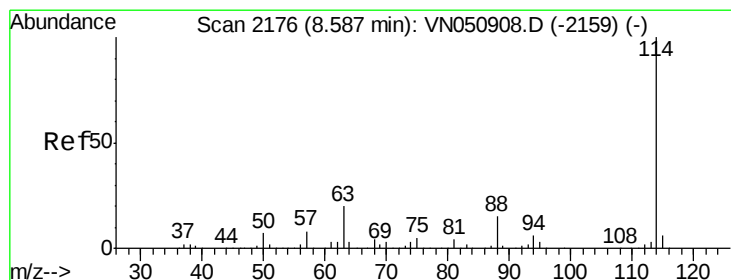
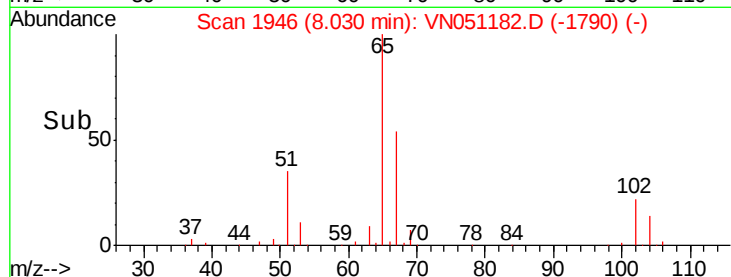
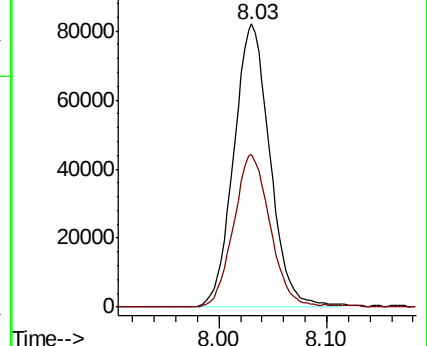
65 100

67 54.1 43.7 65.5



Abundance Ion 65.00 (64.70 to 65.70): VN051182.D (-1946) (-)

Ion 67.00 (66.70 to 67.70): VN051182.D (-1946) (-)



#28

1,4-Difluorobenzene

Concen: 30.00 ug/l

RT: 8.59 min Scan# 2120

Delta R.T. 0.00 min

Lab File: VN051182.D

Acq: 14 Sep 2018 11:55

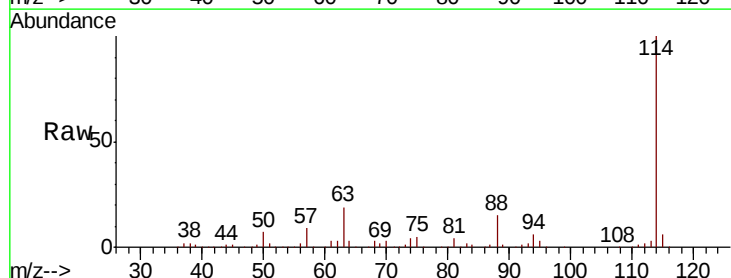
Tgt Ion: 114 Resp: 520008

Ion Ratio Lower Upper

114 100

63 18.8 15.6 23.4

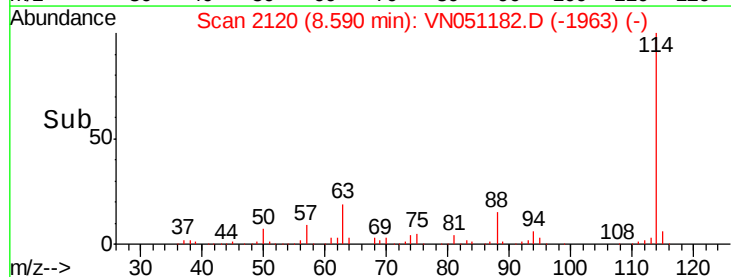
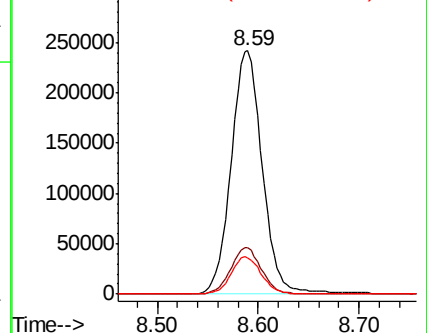
88 15.0 12.2 18.4

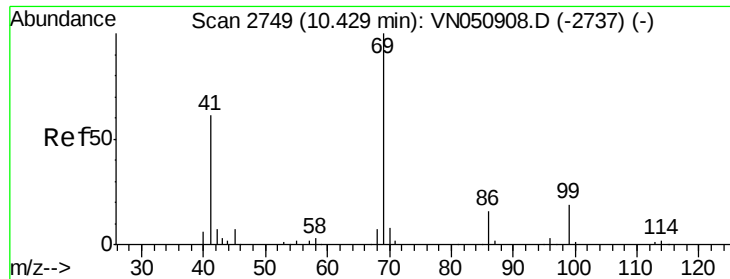


Abundance Ion 114.00 (113.70 to 114.70): VN051182.D (-2120) (-)

Ion 63.00 (62.70 to 63.70): VN051182.D (-2120) (-)

Ion 88.00 (87.70 to 88.70): VN051182.D (-2120) (-)





#51

Ethyl methacrylate

Concen: 0.30 ug/l

RT: 10.10 min Scan# 2589

Delta R.T. -0.33 min

Lab File: VN051182.D

Acq: 14 Sep 2018 11:55

Instrument :

MSVOA_N

ClientSampleId :

CBH-591(1)

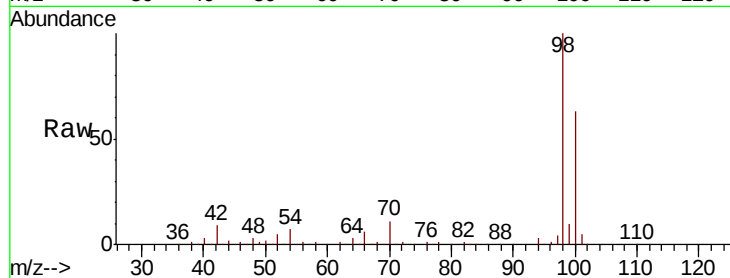
Tot Ion: 69 Resp: 1997

Ion Ratio Lower Upper

69 100

41 55.6 30.5 91.5

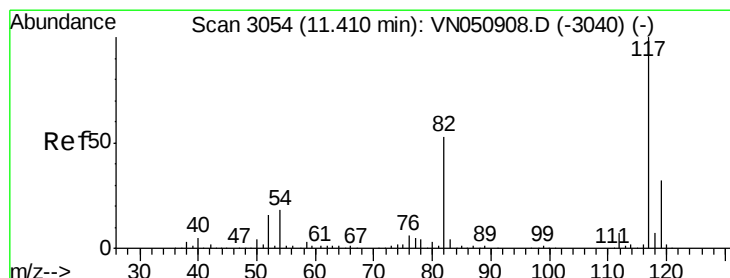
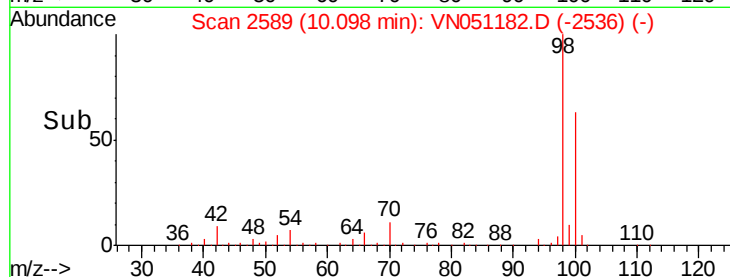
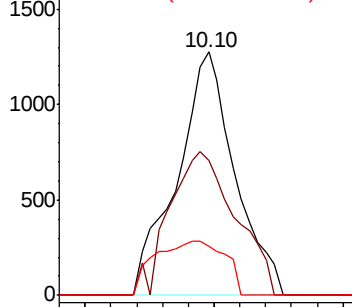
39 20.4 15.3 45.8



Abundance Ion 69.00 (68.70 to 69.70): VN051182.D (-2536) (-)

Ion 41.00 (40.70 to 41.70): VN051182.D (-2536) (-)

Ion 39.00 (38.70 to 39.70): VN051182.D (-2536) (-)



#57

Chlorobenzene-d5

Concen: 30.00 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN051182.D

Acq: 14 Sep 2018 11:55

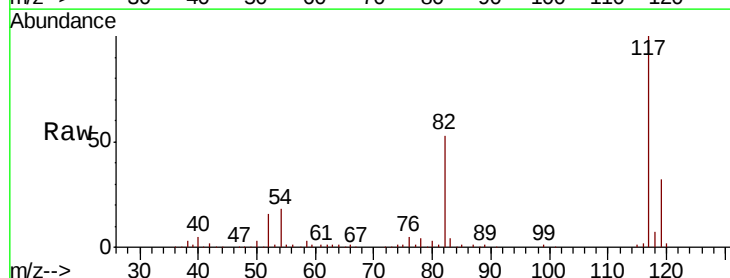
Tgt Ion: 117 Resp: 412664

Ion Ratio Lower Upper

117 100

82 52.5 42.6 64.0

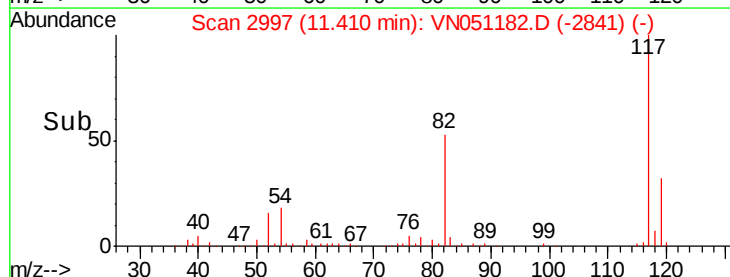
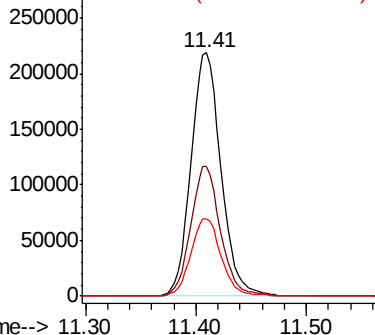
119 32.3 25.7 38.5

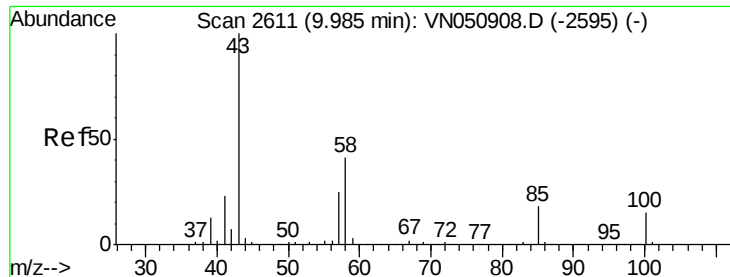


Abundance Ion 117.00 (116.70 to 117.70): VN051182.D (-2841) (-)

Ion 82.00 (81.70 to 82.70): VN051182.D (-2841) (-)

Ion 119.00 (118.70 to 119.70): VN051182.D (-2841) (-)





#58

4-Methyl-2-Pentanone

Concen: 0.25 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN051182.D

Acq: 14 Sep 2018 11:55

Instrument :

MSVOA_N

ClientSampled :

CBH-591(1)

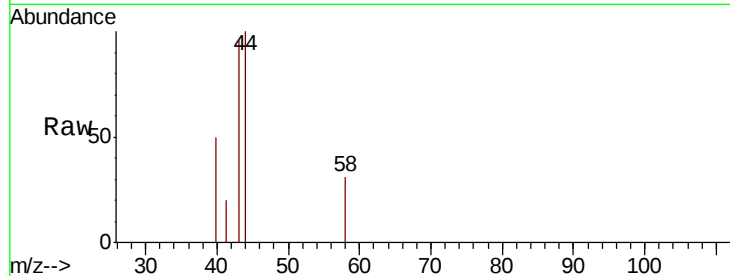
Tot Ion: 43 Resp: 1188

Ion Ratio Lower Upper

43 100

58 26.7 32.3 48.5#

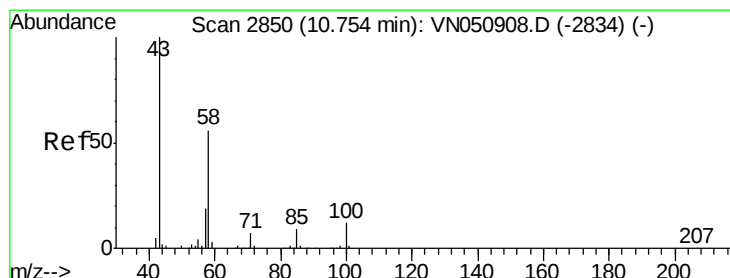
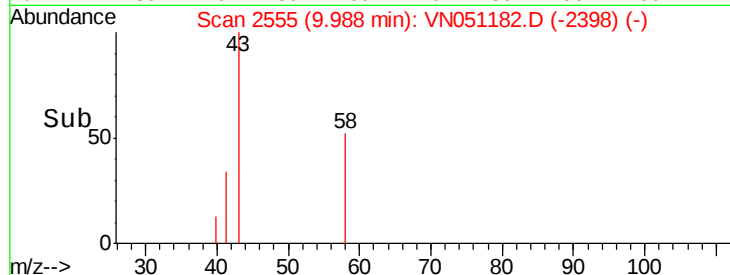
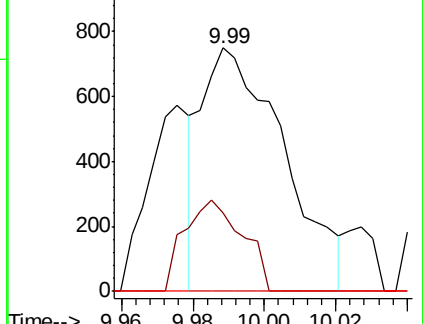
85 0.0 14.9 22.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

Ion 85.00 (84.70 to 85.70): VN0



#59

2-Hexanone

Concen: 0.61 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.01 min

Lab File: VN051182.D

Acq: 14 Sep 2018 11:55

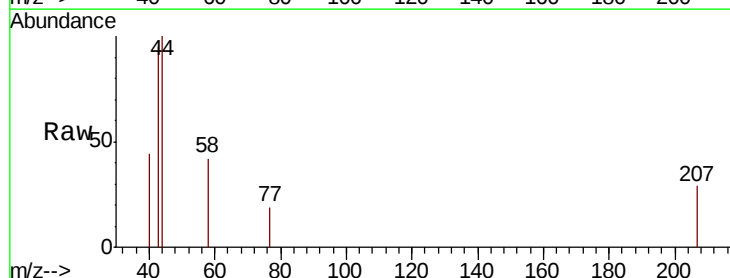
Tgt Ion: 43 Resp: 1878

Ion Ratio Lower Upper

43 100

58 27.3 45.5 68.3#

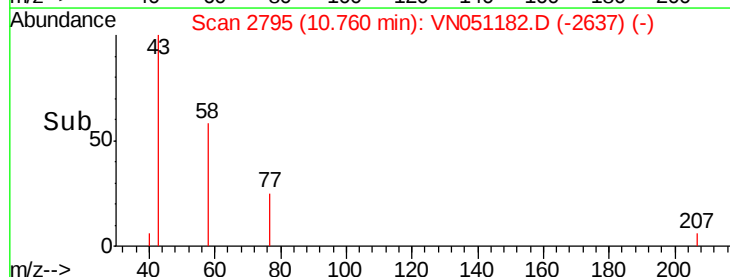
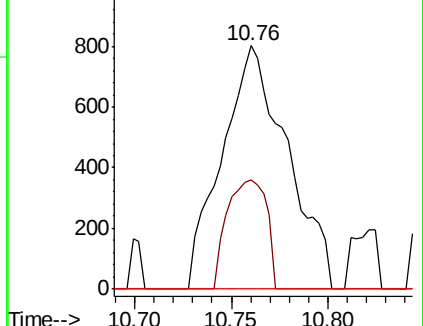
57 0.0 15.2 22.8#

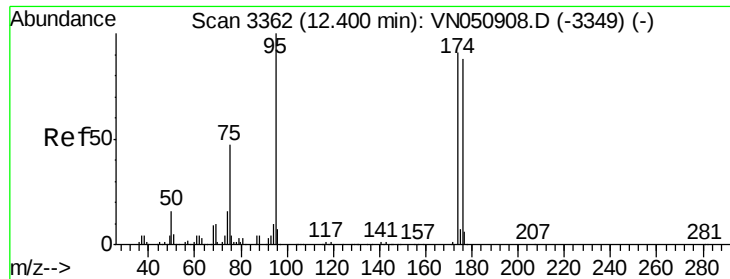


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

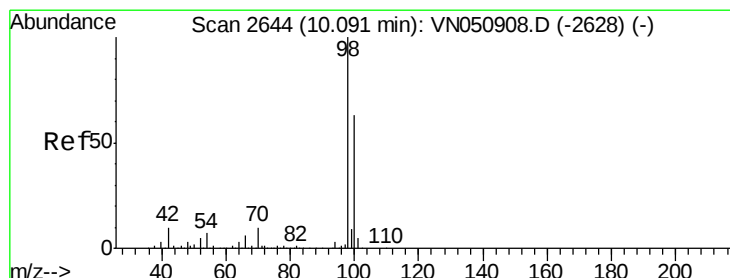
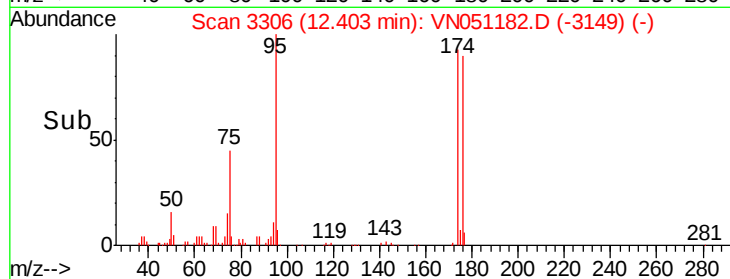
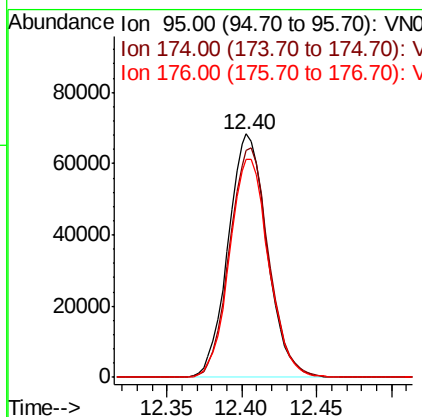
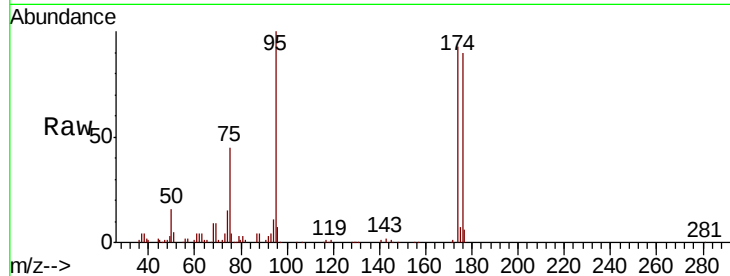




#60
4-Bromofluorobenzene
Concen: 20.17 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051182.D
Acq: 14 Sep 2018 11:55

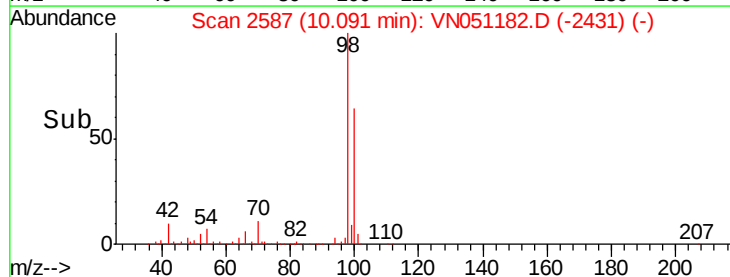
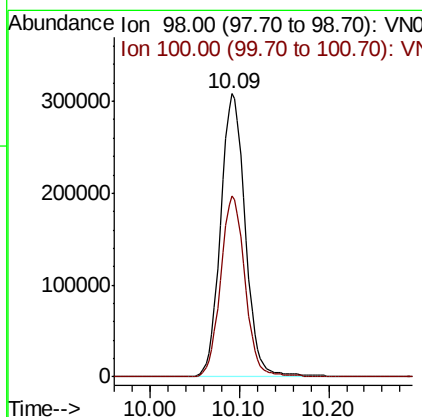
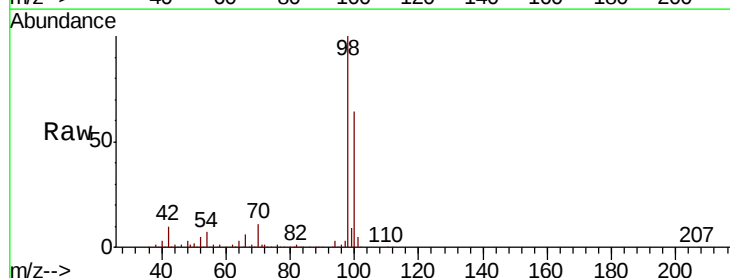
Instrument :
MSVOA_N
ClientSampleId :
CBH-591(1)

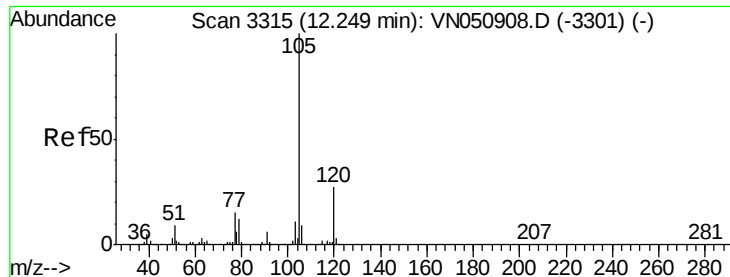
Tot Ion	95	Resp	123763
Ion Ratio	Lower	Upper	
95	100		
174	94.9	74.6	112.0
176	90.4	71.5	107.3



#63
Toluene-d8
Concen: 30.71 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051182.D
Acq: 14 Sep 2018 11:55

Tgt Ion	98	Resp	591015
Ion Ratio	Lower	Upper	
98	100		
100	63.4	50.6	75.8





#70

Isopropylbenzene

Concen: 0.25 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN051182.D

Acq: 14 Sep 2018 11:55

Instrument :

MSVOA_N

ClientSampled :

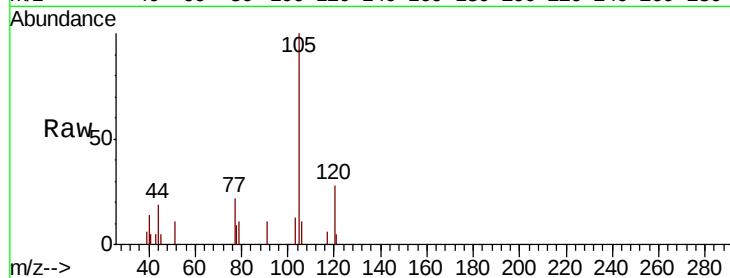
CBH-591(1)

Tot Ion:105 Resp: 5731

Ion Ratio Lower Upper

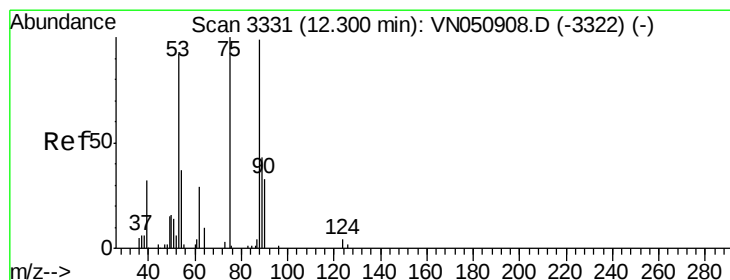
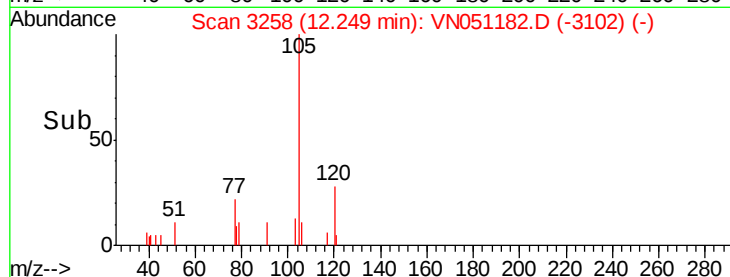
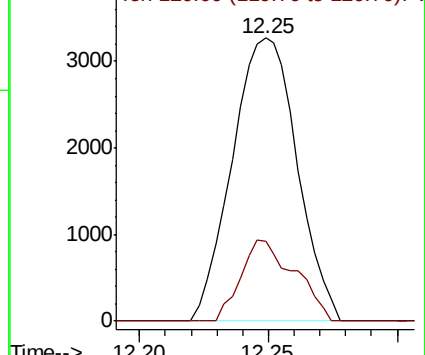
105 100

120 23.8 18.6 34.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#77

t-1,4-Dichloro-2-butene

Concen: 36.24 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051182.D

Acq: 14 Sep 2018 11:55

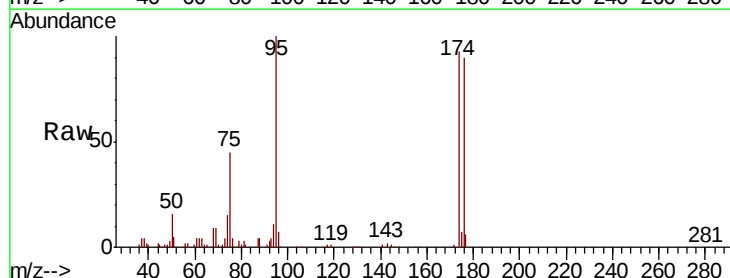
Tgt Ion: 75 Resp: 56177

Ion Ratio Lower Upper

75 100

53 0.0 45.5 136.4#

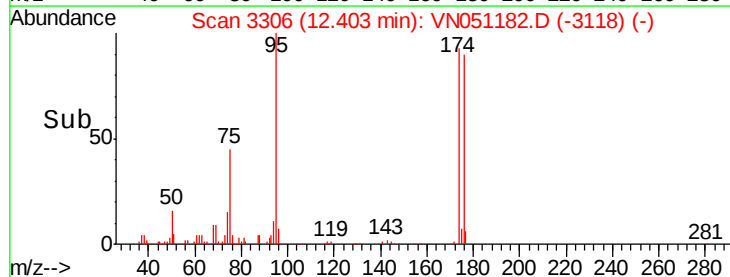
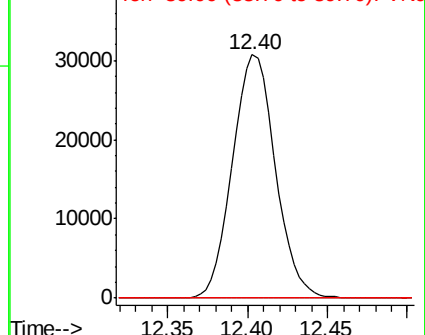
89 0.0 21.9 65.8#

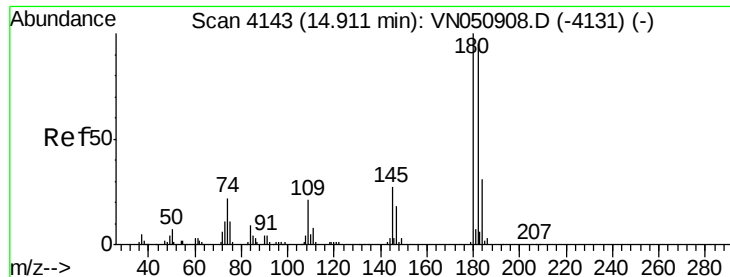


Abundance Ion 75.00 (74.70 to 75.70): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 89.00 (88.70 to 89.70): VNO

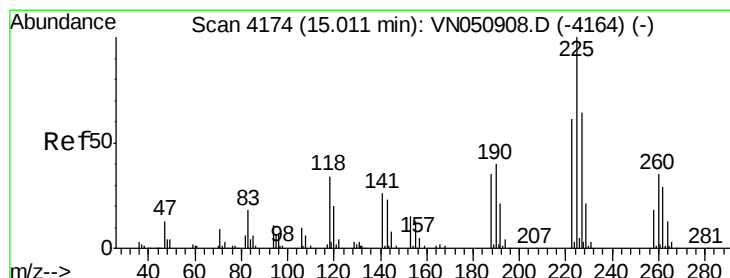
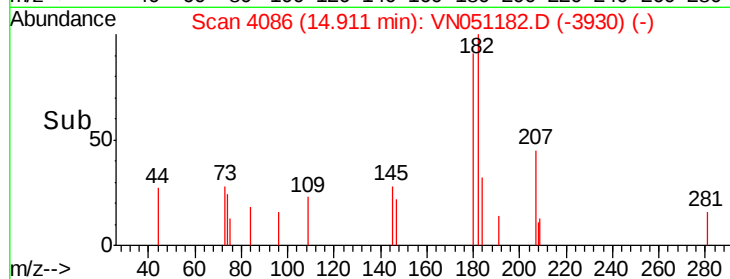
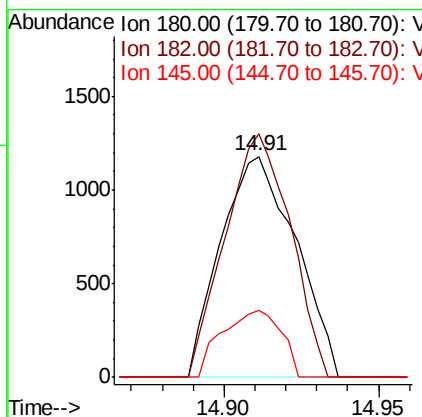
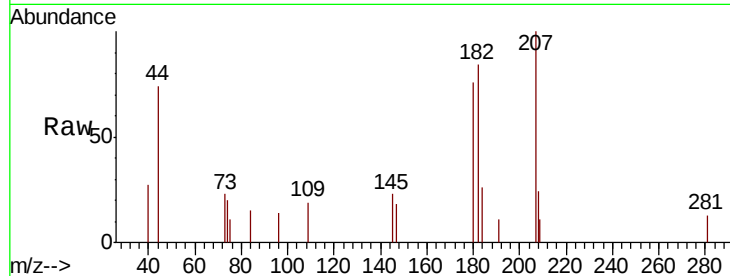




#89
 1,2,4-Trichlorobenzene
 Concen: 0.44 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN051182.D
 Acq: 14 Sep 2018 11:55

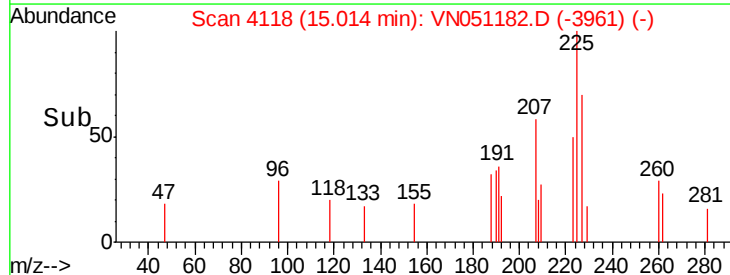
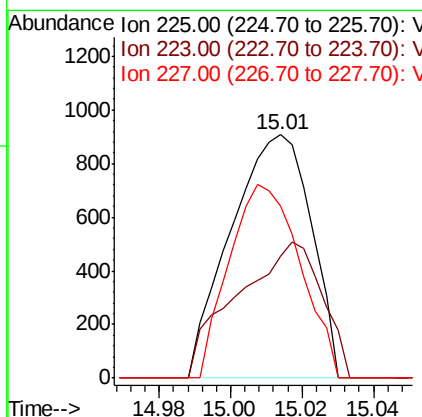
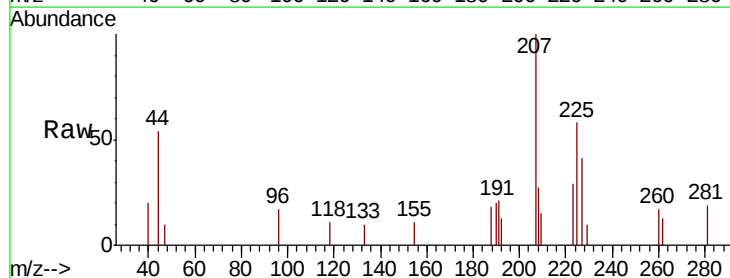
Instrument :
 MSVOA_N
 ClientSampled :
 CBH-591(1)

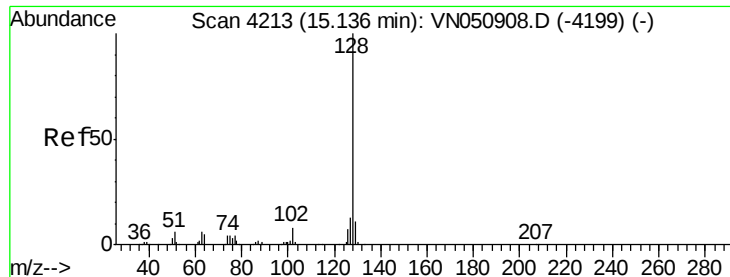
Tot Ion:180 Resp: 1985
 Ion Ratio Lower Upper
 180 100
 182 96.1 76.2 114.4
 145 23.9 22.2 33.4



#90
 Hexachlorobutadiene
 Concen: 0.46 ug/l
 RT: 15.01 min Scan# 4118
 Delta R.T. 0.00 min
 Lab File: VN051182.D
 Acq: 14 Sep 2018 11:55

Tgt Ion:225 Resp: 1412
 Ion Ratio Lower Upper
 225 100
 223 59.3 0.0 127.8
 227 70.2 0.0 128.4





#91

Naphthalene

Concen: 8.92 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN051182.D

Acq: 14 Sep 2018 11:55

Instrument :

MSVOA_N

ClientSampled :

CBH-591(1)

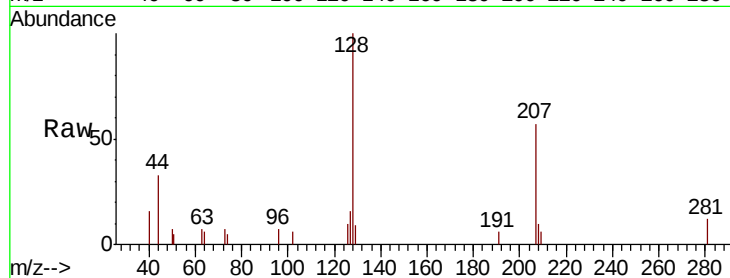
Tot Ion:128 Resp: 4856

Ion Ratio Lower Upper

128 100

127 14.3 10.6 16.0

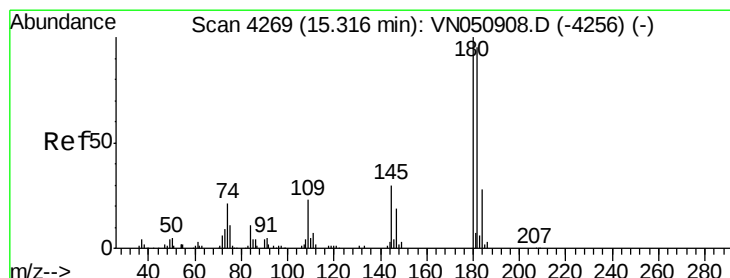
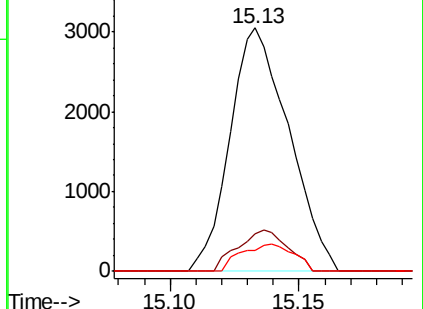
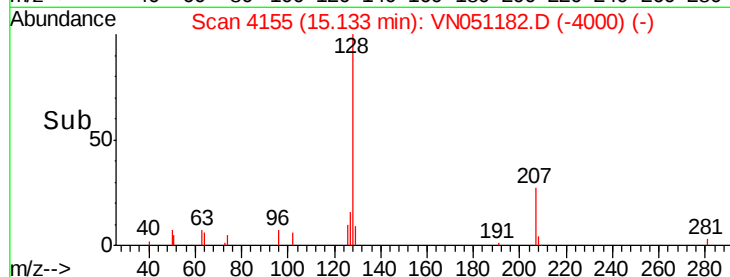
129 10.0 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#92

1,2,3-Trichlorobenzene

Concen: 0.50 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN051182.D

Acq: 14 Sep 2018 11:55

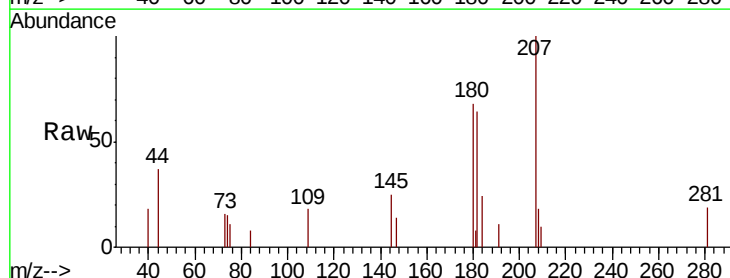
Tgt Ion:180 Resp: 2299

Ion Ratio Lower Upper

180 100

182 91.8 0.0 192.8

145 29.0 0.0 60.0



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

