

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091418\
 Data File : VN051180.D
 Acq On : 14 Sep 2018 11:06
 Operator : MD\SY
 Sample : J4907-02 50X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 CBH-591(1)

Quant Time: Sep 14 23:38:37 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	100853	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	511854	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	411657	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	190844	29.65	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.83%
60) 4-Bromofluorobenzene	12.40	95	122923	20.08	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	66.93%
63) Toluene-d8	10.09	98	587815	30.62	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.07%

Target Compounds

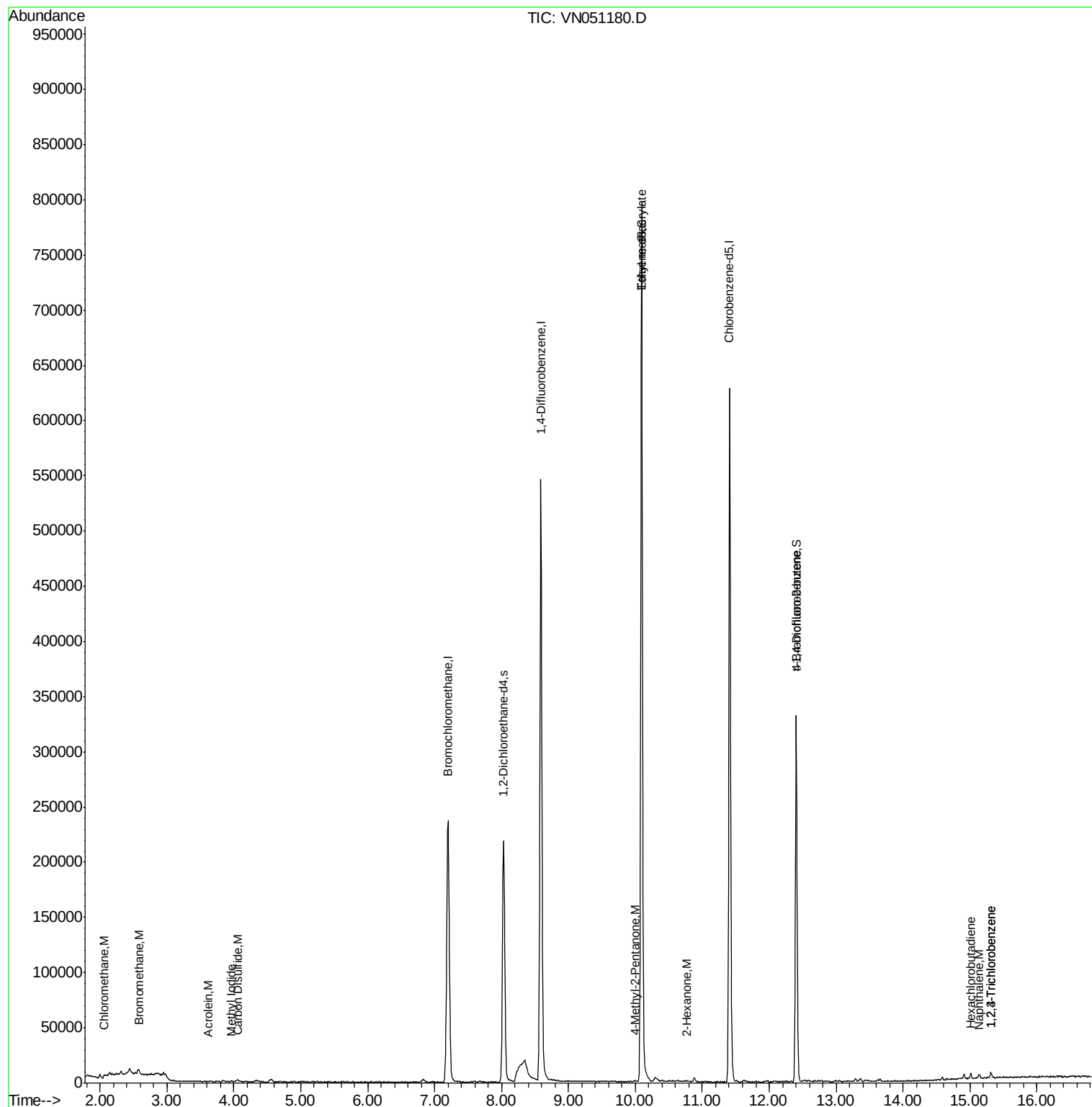
					Ovalue
3) Chloromethane	2.06	50	2086	0.28 ug/l	90
5) Bromomethane	2.58	94	2801	0.63 ug/l	87
11) Methyl Iodide	3.97	142	1036	0.20 ug/l #	82
13) Acrolein	3.62	56	103	0.74 ug/l	96
16) Carbon Disulfide	4.06	76	3613	0.22 ug/l #	81
51) Ethyl methacrylate	10.09	69	1965	0.30 ug/l	71
58) 4-Methyl-2-Pentanone	9.99	43	1012	0.21 ug/l #	60
59) 2-Hexanone	10.77	43	1573	0.51 ug/l #	42
77) t-1,4-Dichloro-2-butene	12.40	75	55859	36.12 ug/l #	13
89) 1,2,4-Trichlorobenzene	15.32	180	1993	0.44 ug/l	96
90) Hexachlorobutadiene	15.00	225	623	0.20 ug/l	75
91) Naphthalene	15.14	128	4117	8.87 ug/l #	77
92) 1,2,3-Trichlorobenzene	15.32	180	1993	0.44 ug/l	94

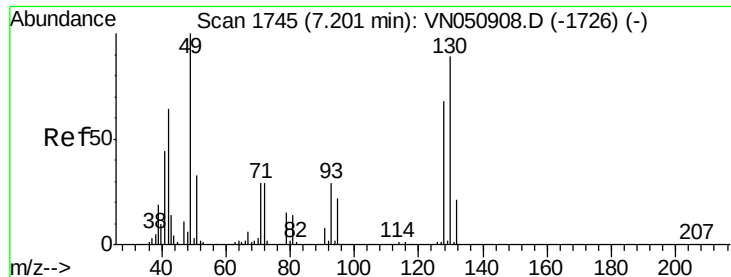
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Aug 29 01:38:44 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 7.20 min Scan# 1688

Delta R.T. 0.00 min

Lab File: VN051180.D

Acq: 14 Sep 2018 11:06

Instrument :

MSVOA_N

ClientSampled :

CBH-591(1)

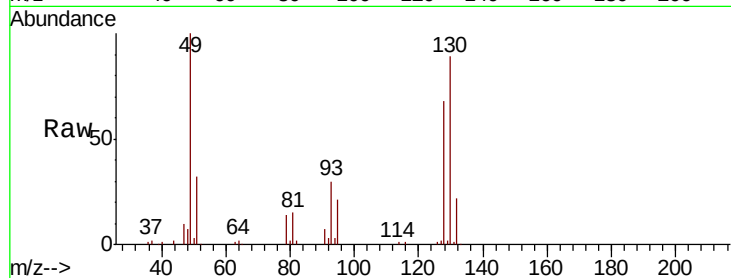
Tot Ion:128 Resp: 100853

Ion Ratio Lower Upper

128 100

49 144.0 0.0 380.3

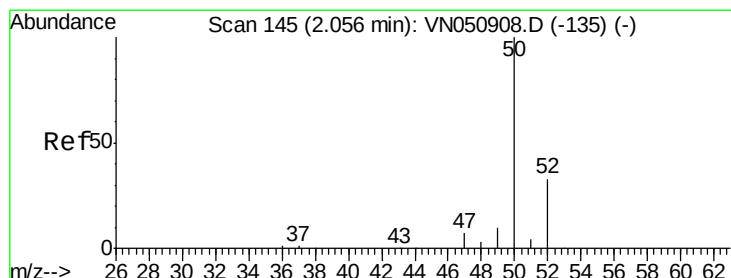
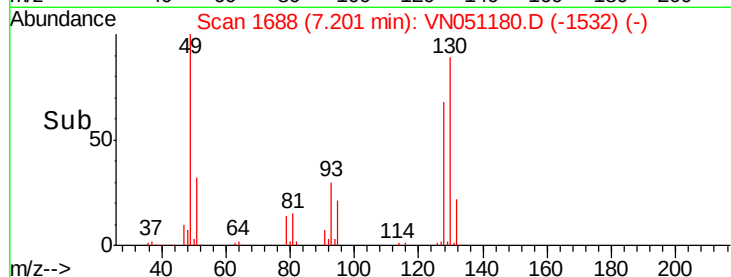
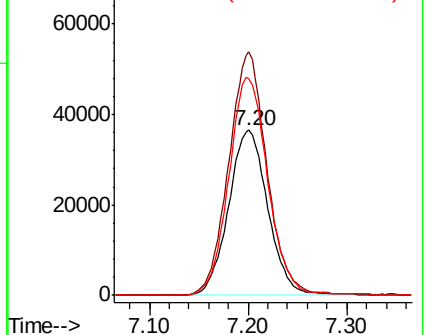
130 130.8 0.0 325.3



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: 0.28 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN051180.D

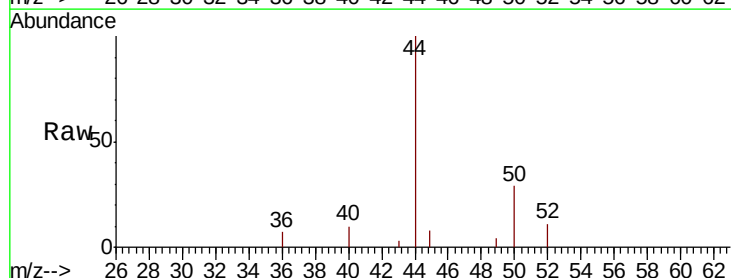
Acq: 14 Sep 2018 11:06

Tgt Ion: 50 Resp: 2086

Ion Ratio Lower Upper

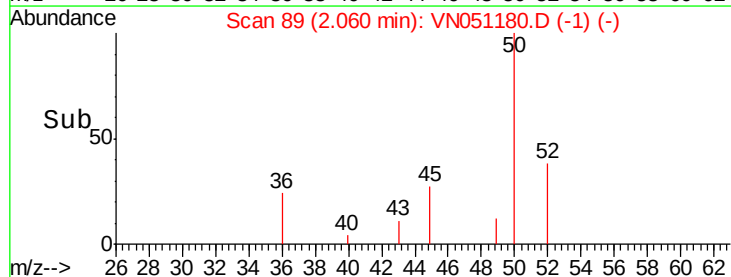
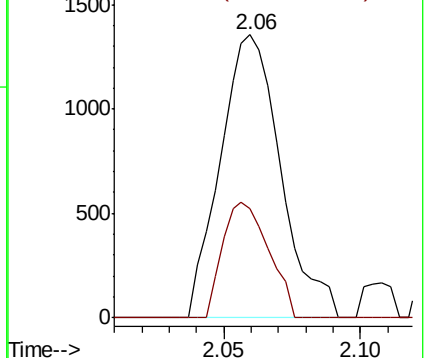
50 100

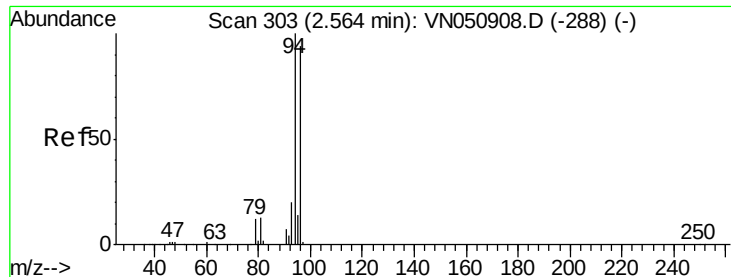
52 38.5 26.2 39.4



Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0





#5

Bromomethane

Concen: 0.63 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.01 min

Lab File: VN051180.D

Acq: 14 Sep 2018 11:06

Instrument :

MSVOA_N

ClientSampled :

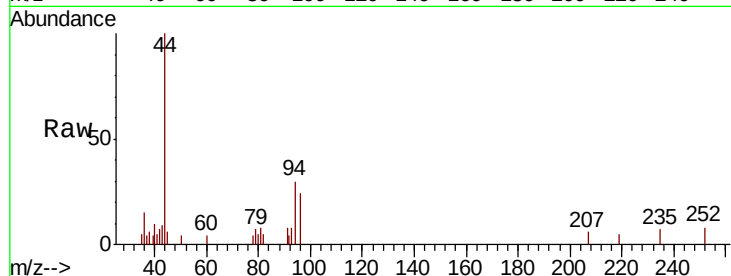
CBH-591(1)

Tot Ion: 94 Resp: 2801

Ion Ratio Lower Upper

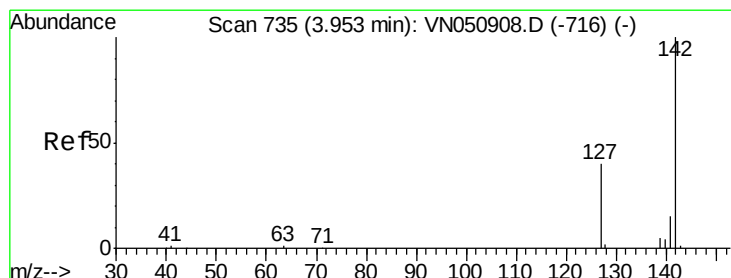
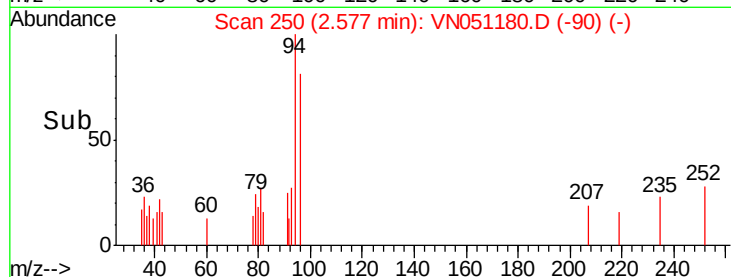
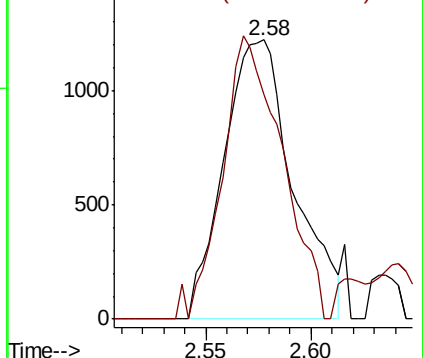
94 100

96 80.6 74.9 112.3



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#11

Methyl Iodide

Concen: 0.20 ug/l

RT: 3.97 min Scan# 682

Delta R.T. 0.01 min

Lab File: VN051180.D

Acq: 14 Sep 2018 11:06

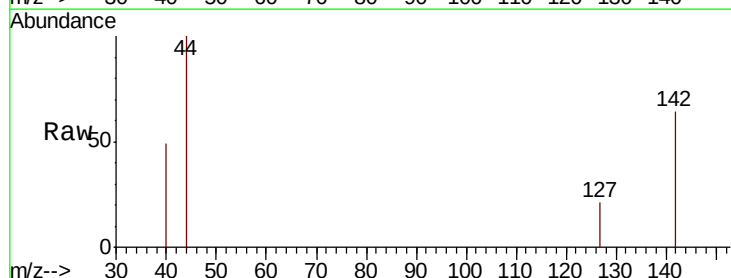
Tgt Ion: 142 Resp: 1036

Ion Ratio Lower Upper

142 100

127 32.7 19.7 59.1

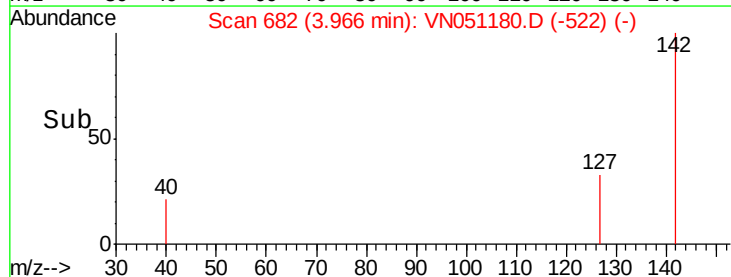
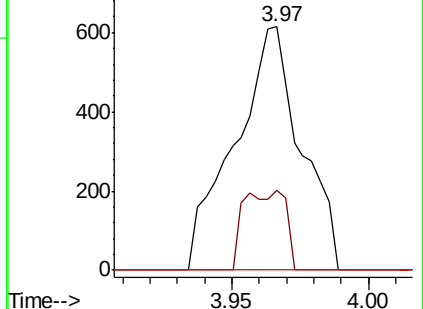
141 0.0 7.3 22.0#

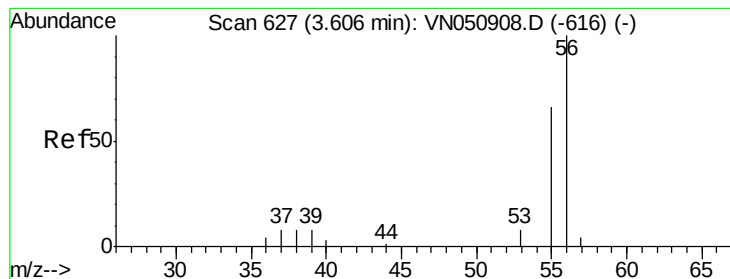


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V





#13

Acrolein

Concen: 0.74 ug/l

RT: 3.62 min Scan# 575

Delta R.T. 0.02 min

Lab File: VN051180.D

Acq: 14 Sep 2018 11:06

Instrument :

MSVOA_N

ClientSampled :

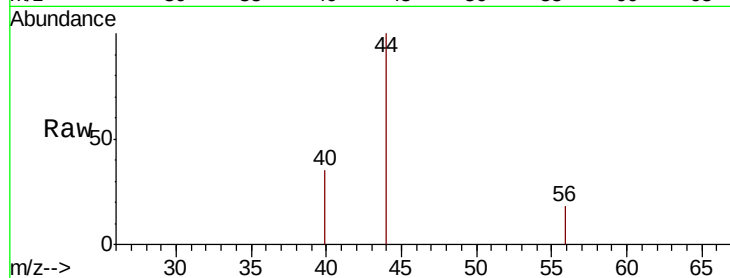
CBH-591(1)

Tot Ion: 56 Resp: 103

Ion Ratio Lower Upper

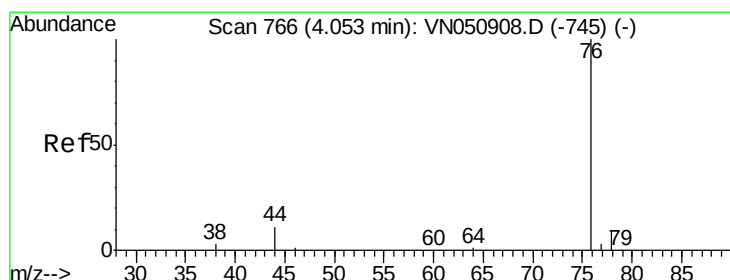
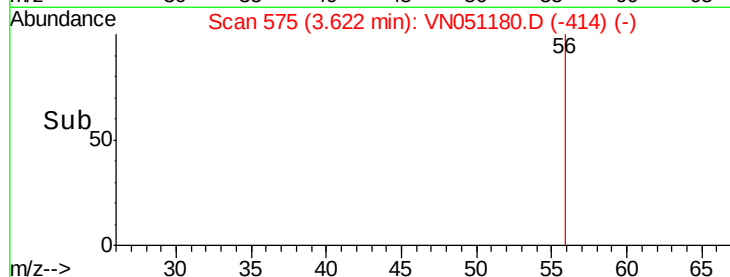
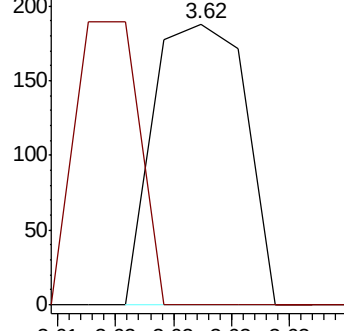
56 100

55 70.9 59.1 88.7



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Carbon Disulfide

Concen: 0.22 ug/l

RT: 4.06 min Scan# 710

Delta R.T. 0.00 min

Lab File: VN051180.D

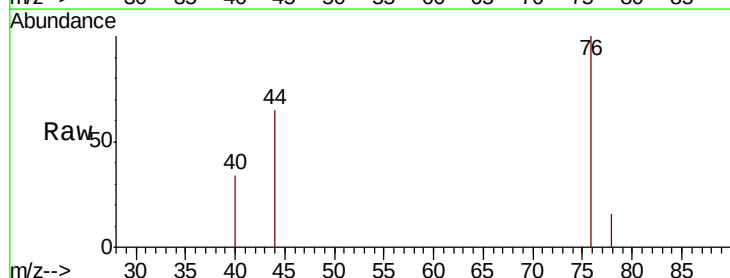
Acq: 14 Sep 2018 11:06

Tgt Ion: 76 Resp: 3613

Ion Ratio Lower Upper

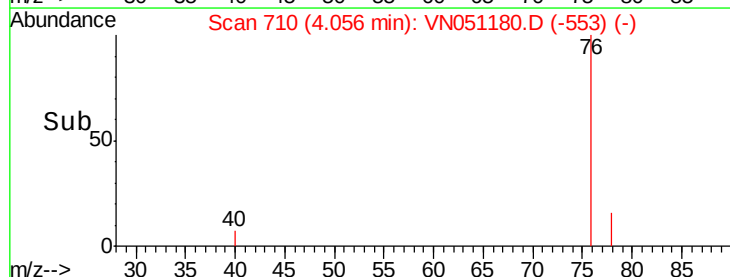
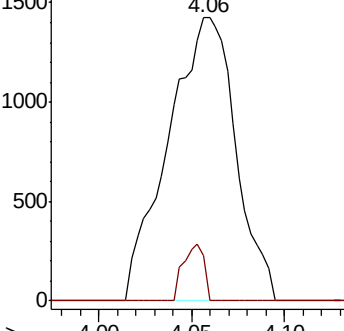
76 100

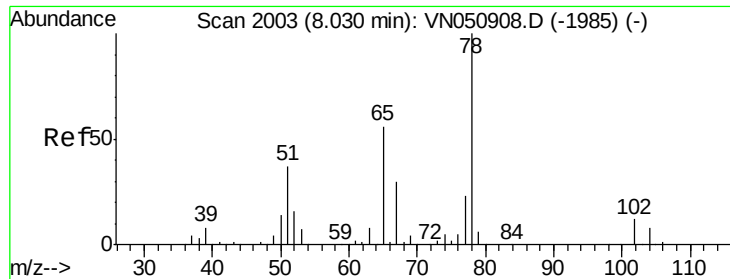
78 15.9 7.3 10.9#



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0

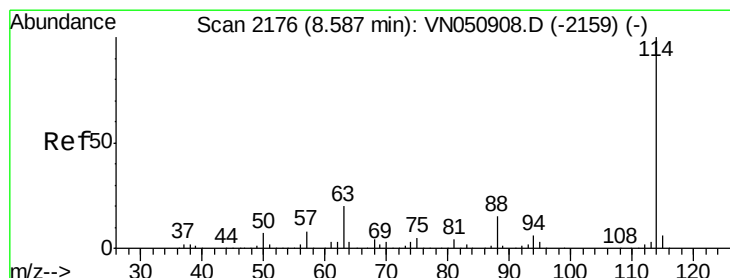
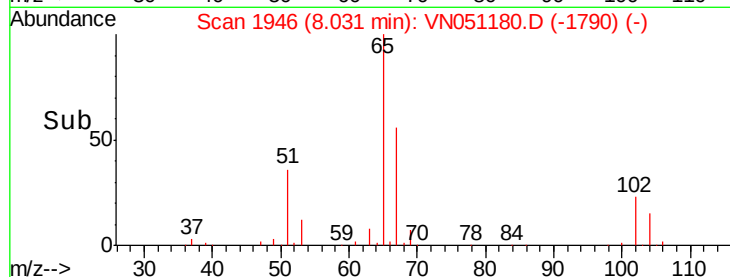
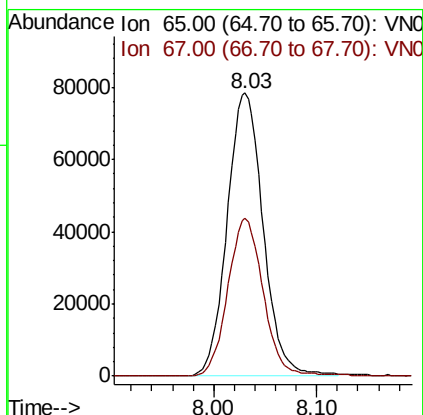
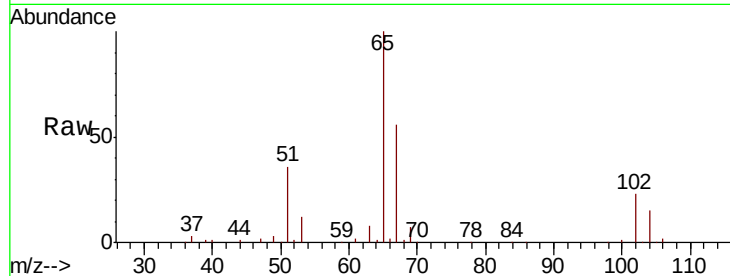




#27
 1,2-Dichloroethane-d4
 Concen: 29.65 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051180.D
 Acq: 14 Sep 2018 11:06

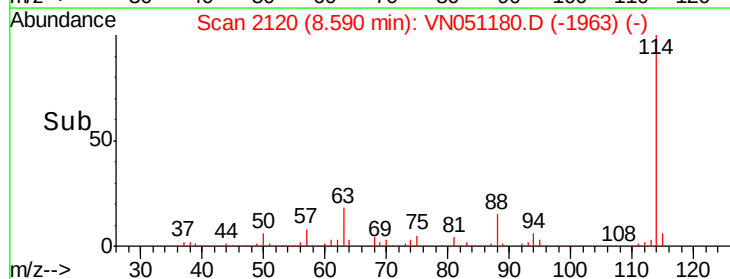
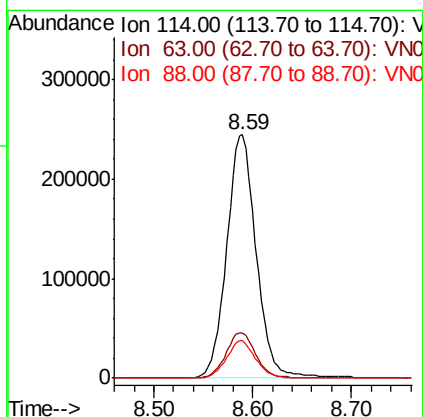
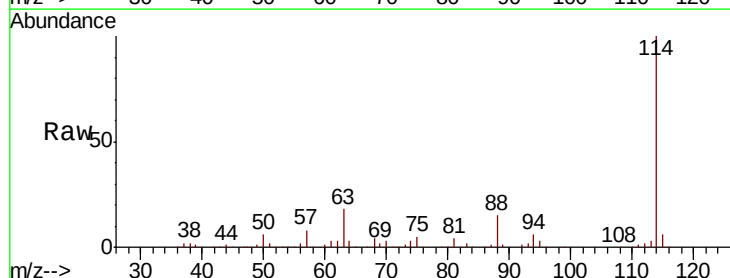
Instrument :
 MSVOA_N
 ClientSampled :
 CBH-591(1)

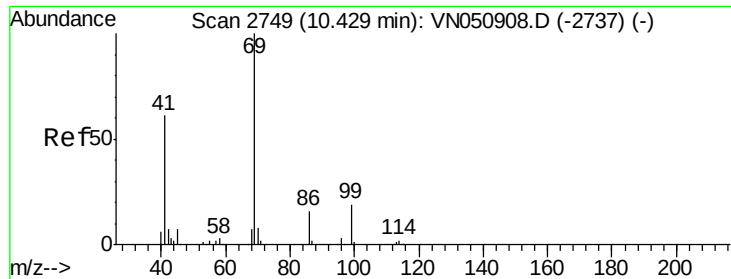
Tot Ion: 65 Resp: 190844
 Ion Ratio Lower Upper
 65 100
 67 54.8 43.7 65.5



#28
 1,4-Difluorobenzene
 Concen: 30.00 ug/l
 RT: 8.59 min Scan# 2120
 Delta R.T. 0.00 min
 Lab File: VN051180.D
 Acq: 14 Sep 2018 11:06

Tgt Ion: 114 Resp: 511854
 Ion Ratio Lower Upper
 114 100
 63 19.0 15.6 23.4
 88 15.0 12.2 18.4





#51

Ethyl methacrylate

Concen: 0.30 ug/l

RT: 10.09 min Scan# 2588

Delta R.T. -0.33 min

Lab File: VN051180.D

Acq: 14 Sep 2018 11:06

Instrument :

MSVOA_N

ClientSampled :

CBH-591(1)

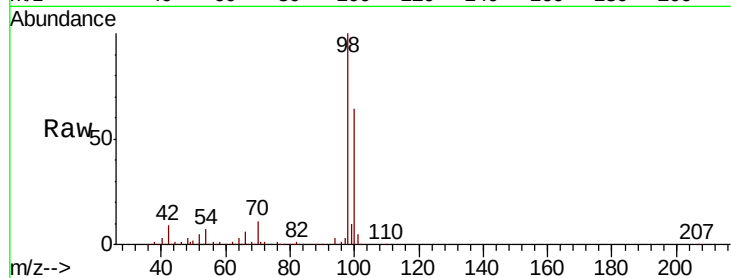
Tot Ion: 69 Resp: 1965

Ion Ratio Lower Upper

69 100

41 86.6 30.5 91.5

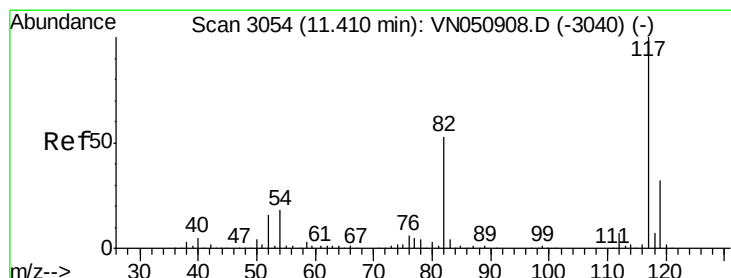
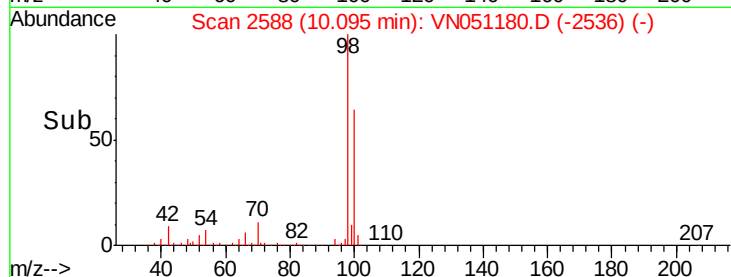
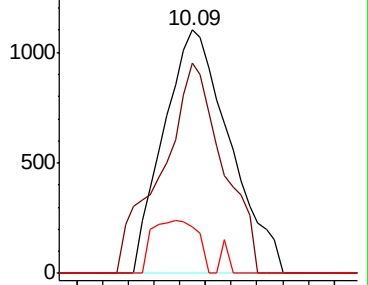
39 19.0 15.3 45.8



Abundance Ion 69.00 (68.70 to 69.70): VN050908.D (-2737) (-)

Ion 41.00 (40.70 to 41.70): VN050908.D (-2737) (-)

Ion 39.00 (38.70 to 39.70): VN050908.D (-2737) (-)



#57

Chlorobenzene-d5

Concen: 30.00 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN051180.D

Acq: 14 Sep 2018 11:06

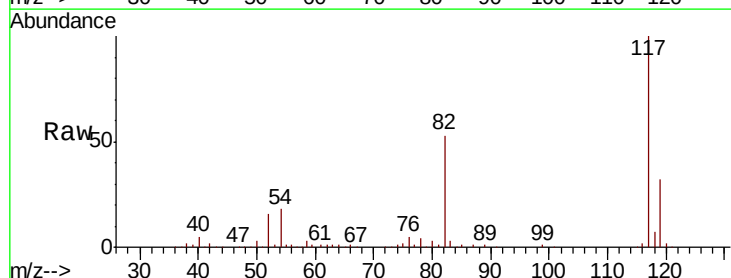
Tgt Ion: 117 Resp: 411657

Ion Ratio Lower Upper

117 100

82 52.8 42.6 64.0

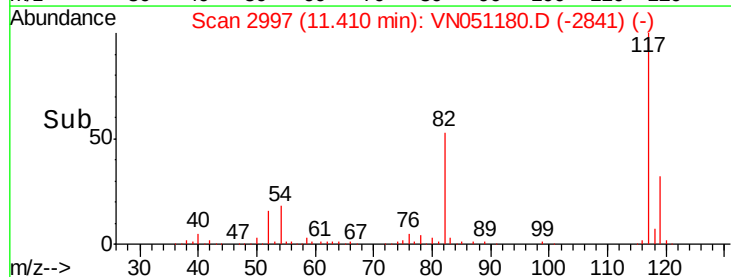
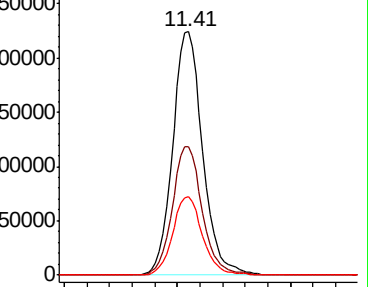
119 32.1 25.7 38.5

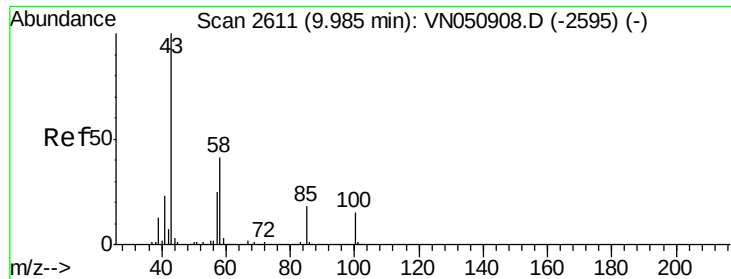


Abundance Ion 117.00 (116.70 to 117.70): VN050908.D (-3040) (-)

Ion 82.00 (81.70 to 82.70): VN050908.D (-3040) (-)

Ion 119.00 (118.70 to 119.70): VN050908.D (-3040) (-)

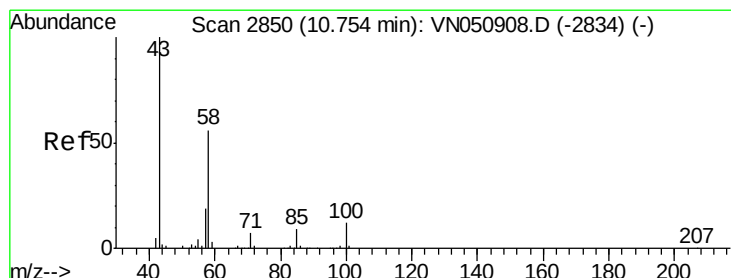
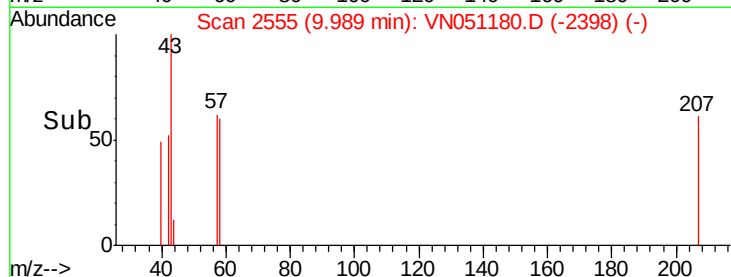
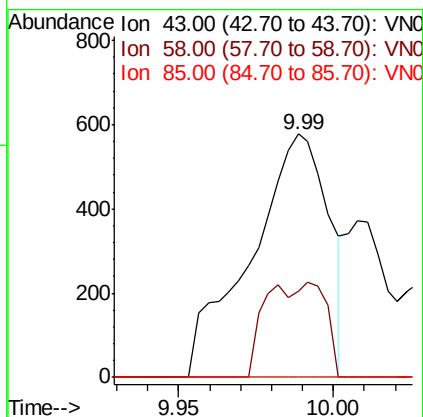
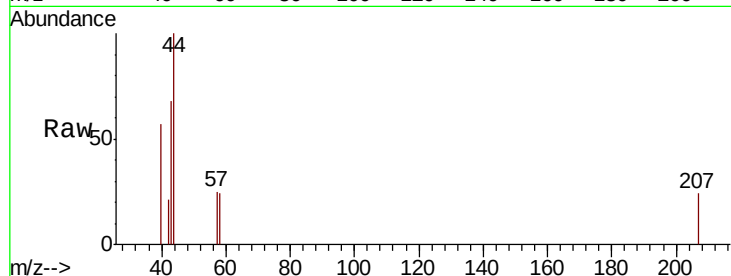




#58
4-Methyl-2-Pentanone
Concen: 0.21 ug/l
RT: 9.99 min Scan# 2555
Delta R.T. 0.00 min
Lab File: VN051180.D
Acq: 14 Sep 2018 11:06

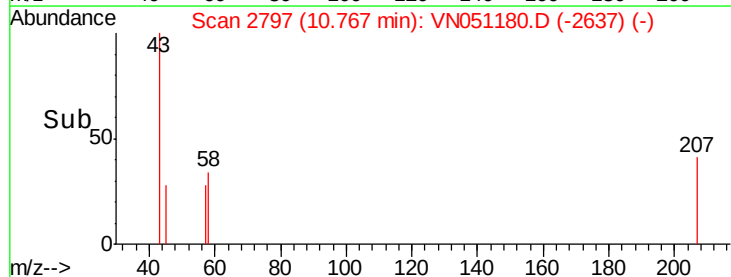
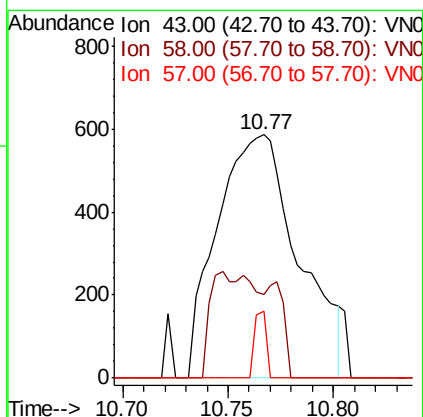
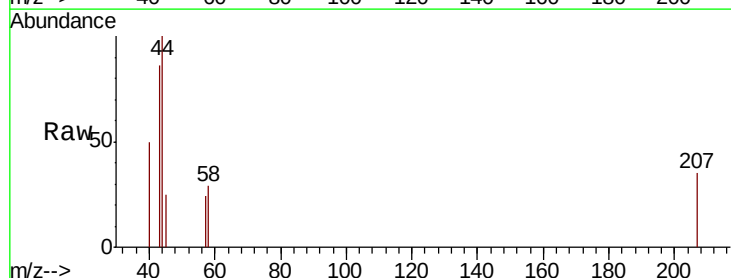
Instrument :
MSVOA_N
ClientSampled :
CBH-591(1)

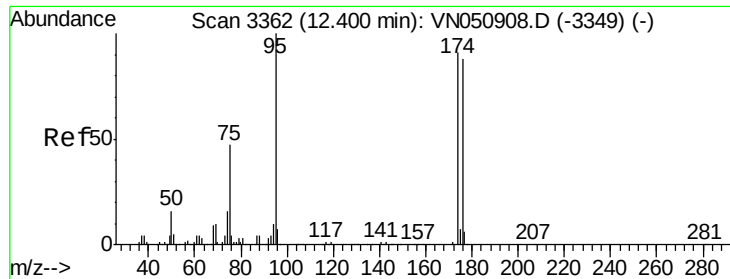
Tot Ion: 43 Resp: 1012
Ion Ratio Lower Upper
43 100
58 15.6 32.3 48.5#
85 0.0 14.9 22.3#



#59
2-Hexanone
Concen: 0.51 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN051180.D
Acq: 14 Sep 2018 11:06

Tgt Ion: 43 Resp: 1573
Ion Ratio Lower Upper
43 100
58 7.8 45.5 68.3#
57 3.9 15.2 22.8#

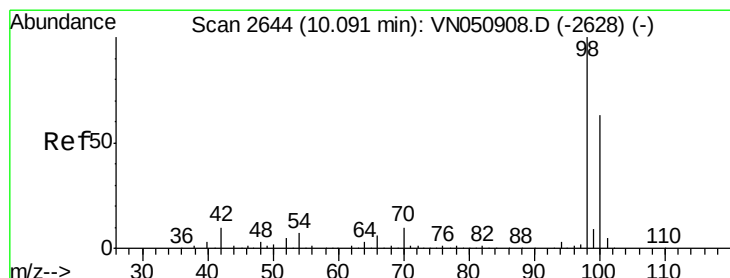
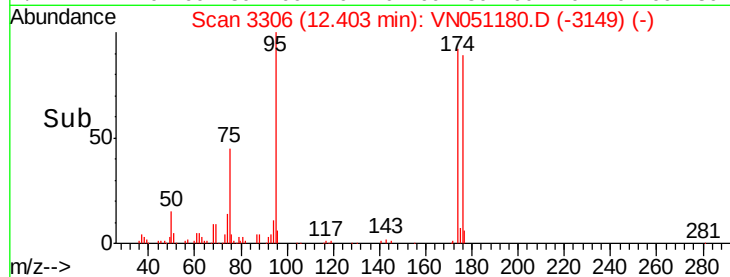
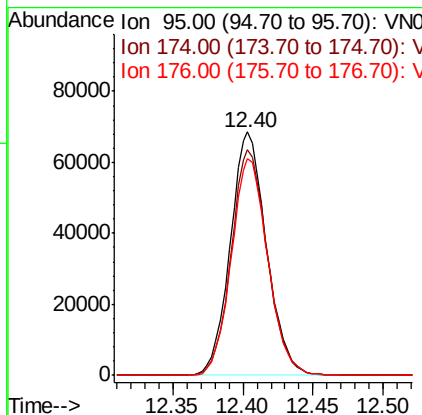
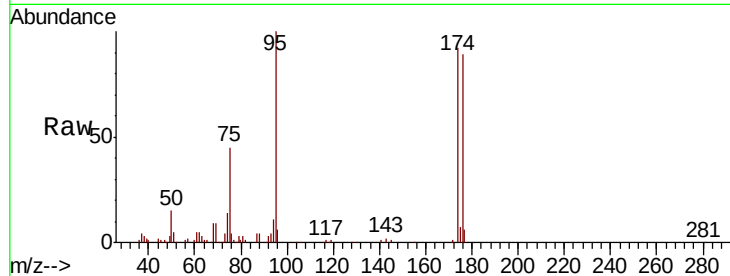




#60
4-Bromofluorobenzene
Concen: 20.08 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051180.D
Acq: 14 Sep 2018 11:06

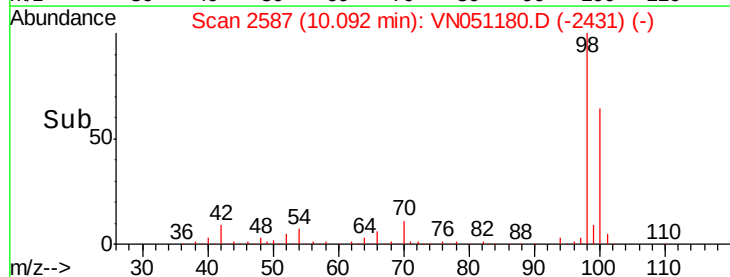
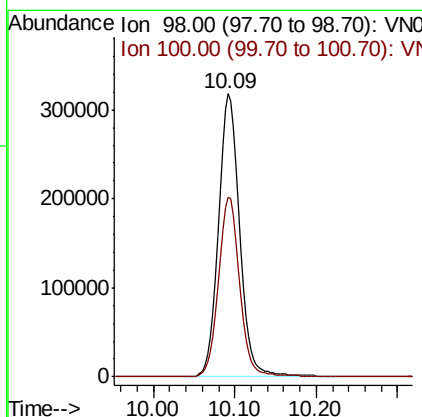
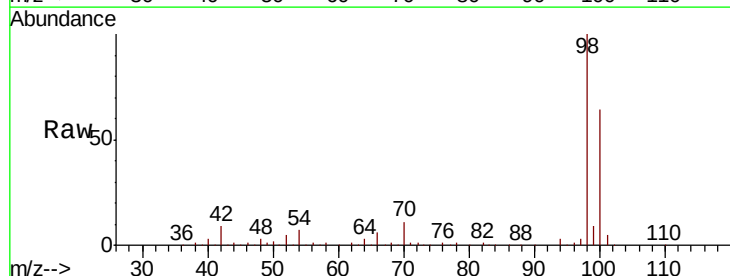
Instrument :
MSVOA_N
ClientSampleId :
CBH-591(1)

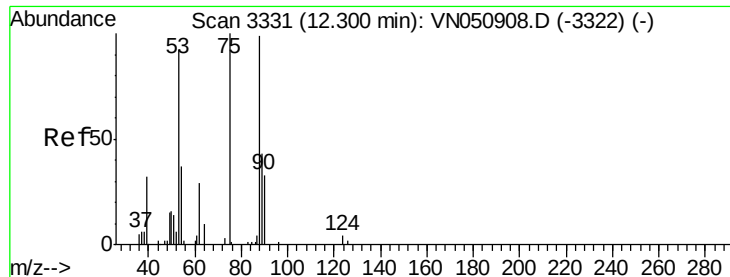
Tot Ion: 95 Resp: 122923
Ion Ratio Lower Upper
95 100
174 92.7 74.6 112.0
176 89.8 71.5 107.3



#63
Toluene-d8
Concen: 30.62 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051180.D
Acq: 14 Sep 2018 11:06

Tgt Ion: 98 Resp: 587815
Ion Ratio Lower Upper
98 100
100 63.1 50.6 75.8





#77

t-1,4-Dichloro-2-butene

Concen: 36.12 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051180.D

Acq: 14 Sep 2018 11:06

Instrument :

MSVOA_N

ClientSampled :

CBH-591(1)

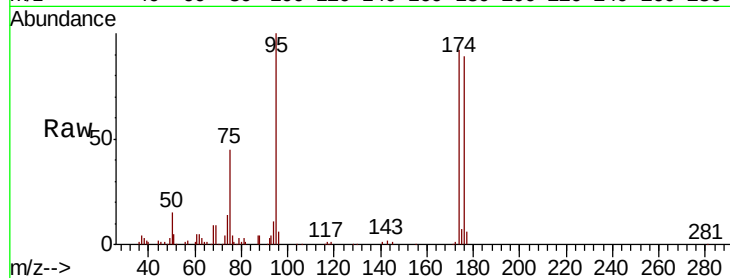
Tot Ion: 75 Resp: 55859

Ion Ratio Lower Upper

75 100

53 0.0 45.5 136.4#

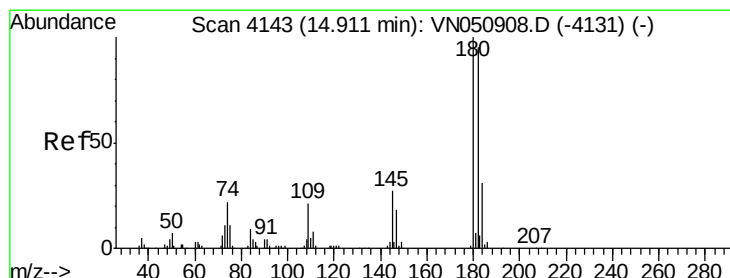
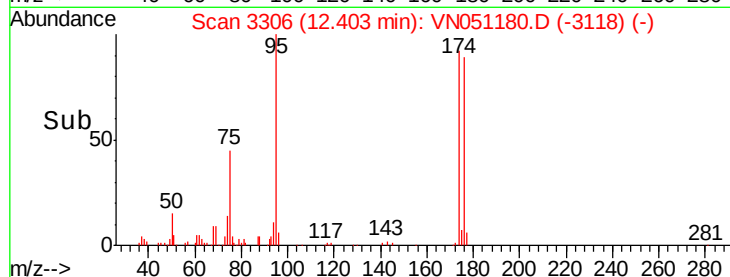
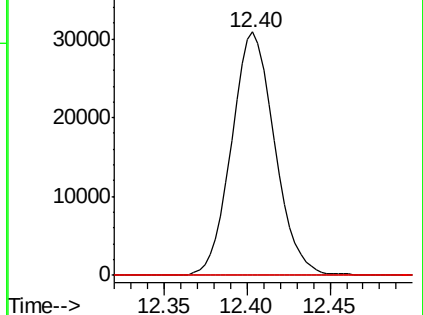
89 0.0 21.9 65.8#



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 89.00 (88.70 to 89.70): VN0



#89

1,2,4-Trichlorobenzene

Concen: 0.44 ug/l

RT: 15.32 min Scan# 4214

Delta R.T. 0.41 min

Lab File: VN051180.D

Acq: 14 Sep 2018 11:06

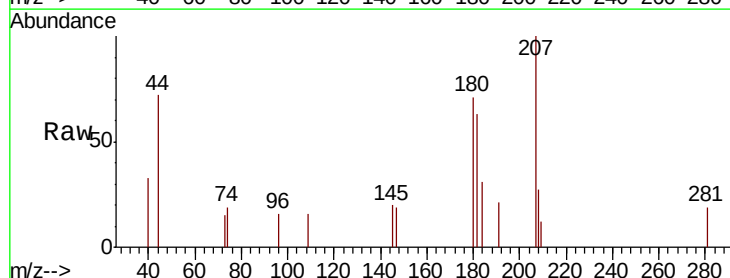
Tgt Ion: 180 Resp: 1993

Ion Ratio Lower Upper

180 100

182 91.9 76.2 114.4

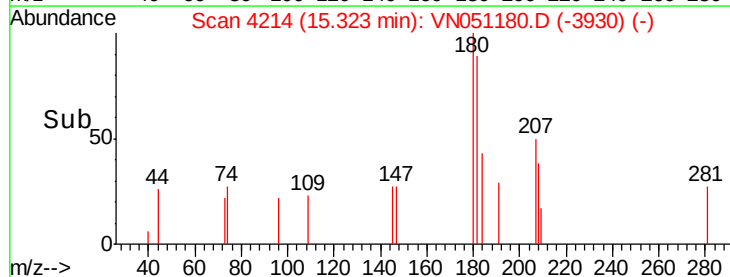
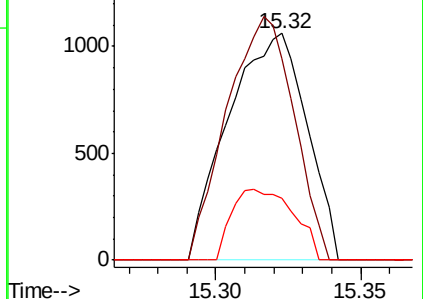
145 24.6 22.2 33.4

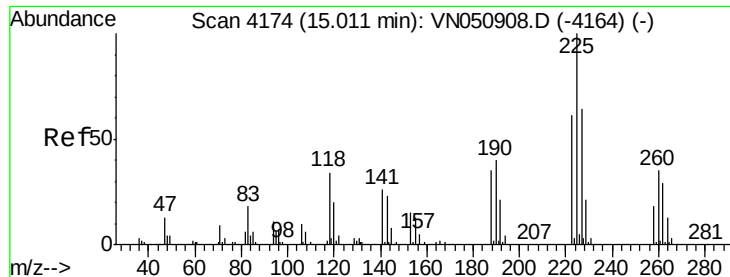


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#90

Hexachlorobutadiene

Concen: 0.20 ug/l

RT: 15.00 min Scan# 4115

Delta R.T. -0.01 min

Lab File: VN051180.D

Acq: 14 Sep 2018 11:06

Instrument :

MSVOA_N

ClientSampled :

CBH-591(1)

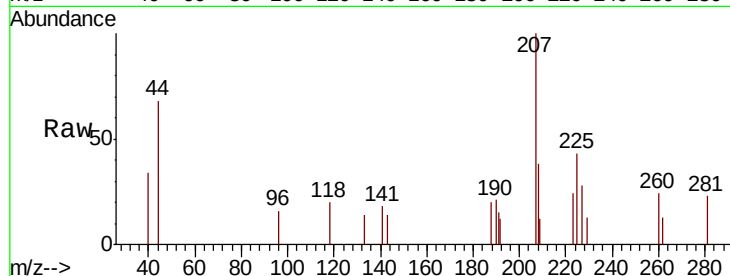
Tot Ion:225 Resp: 623

Ion Ratio Lower Upper

225 100

223 80.4 0.0 127.8

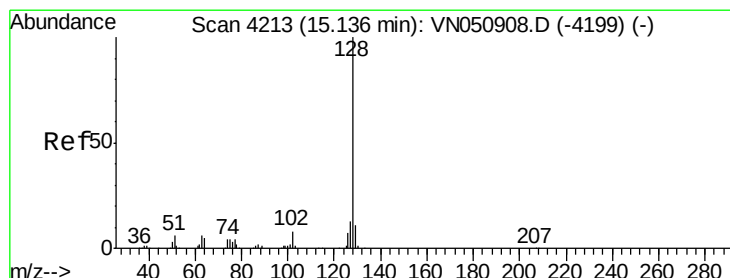
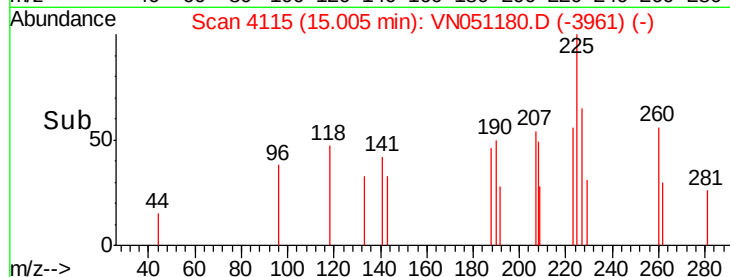
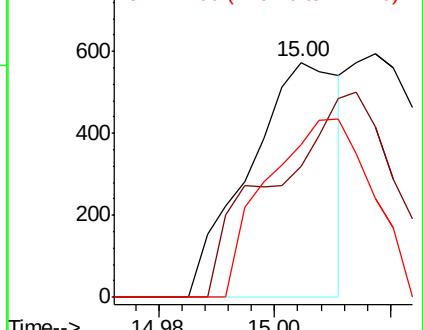
227 87.5 0.0 128.4



Abundance Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V



#91

Naphthalene

Concen: 8.87 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN051180.D

Acq: 14 Sep 2018 11:06

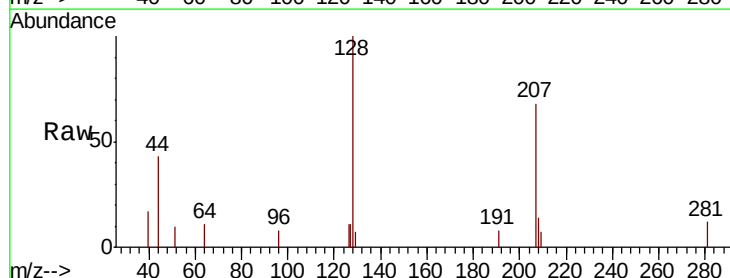
Tgt Ion:128 Resp: 4117

Ion Ratio Lower Upper

128 100

127 6.2 10.6 16.0#

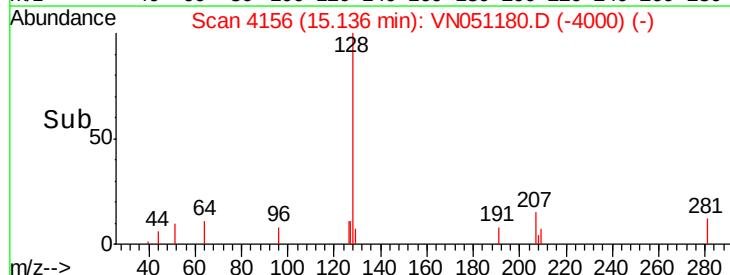
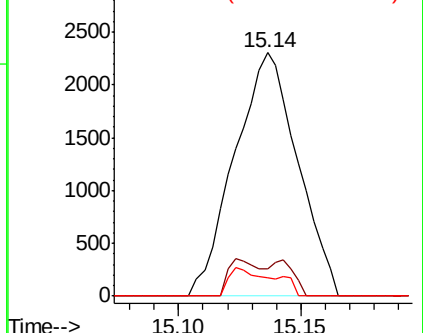
129 0.0 8.7 13.1#

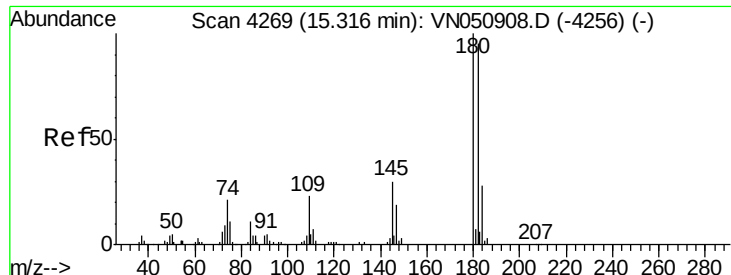


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

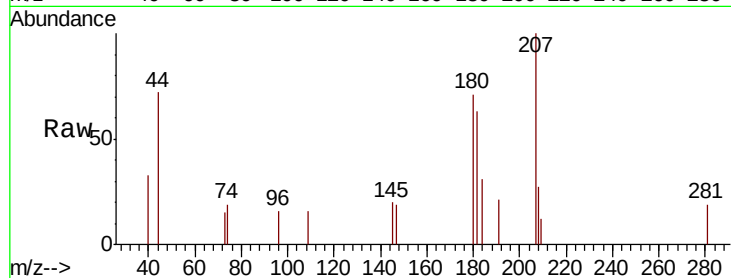




#92
 1,2,3-Trichlorobenzene
 Concen: 0.44 ug/l
 RT: 15.32 min Scan# 4214
 Delta R.T. 0.01 min
 Lab File: VN051180.D
 Acq: 14 Sep 2018 11:06

Instrument :
 MSVOA_N
 ClientSampleId :
 CBH-591(1)

Tot Ion	Ratio	Lower	Upper
180	100		
182	91.9	0.0	192.8
145	24.6	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

