

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031820\
 Data File : VN060596.D
 Acq On : 18 Mar 2020 16:48
 Operator : JC/MD
 Sample : L1917-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 CBH-139

Quant Time: Mar 19 05:00:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	186856	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	308011	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	286135	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	127303	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	121582	47.40	ug/l	0.00
Spiked Amount			Recovery	=	94.80%	
35) Dibromofluoromethane	7.57	113	91863	49.32	ug/l	0.00
Spiked Amount			Recovery	=	98.64%	
50) Toluene-d8	10.08	98	378533	49.76	ug/l	0.00
Spiked Amount			Recovery	=	99.52%	
62) 4-Bromofluorobenzene	12.40	95	138187	49.57	ug/l	0.00
Spiked Amount			Recovery	=	99.14%	

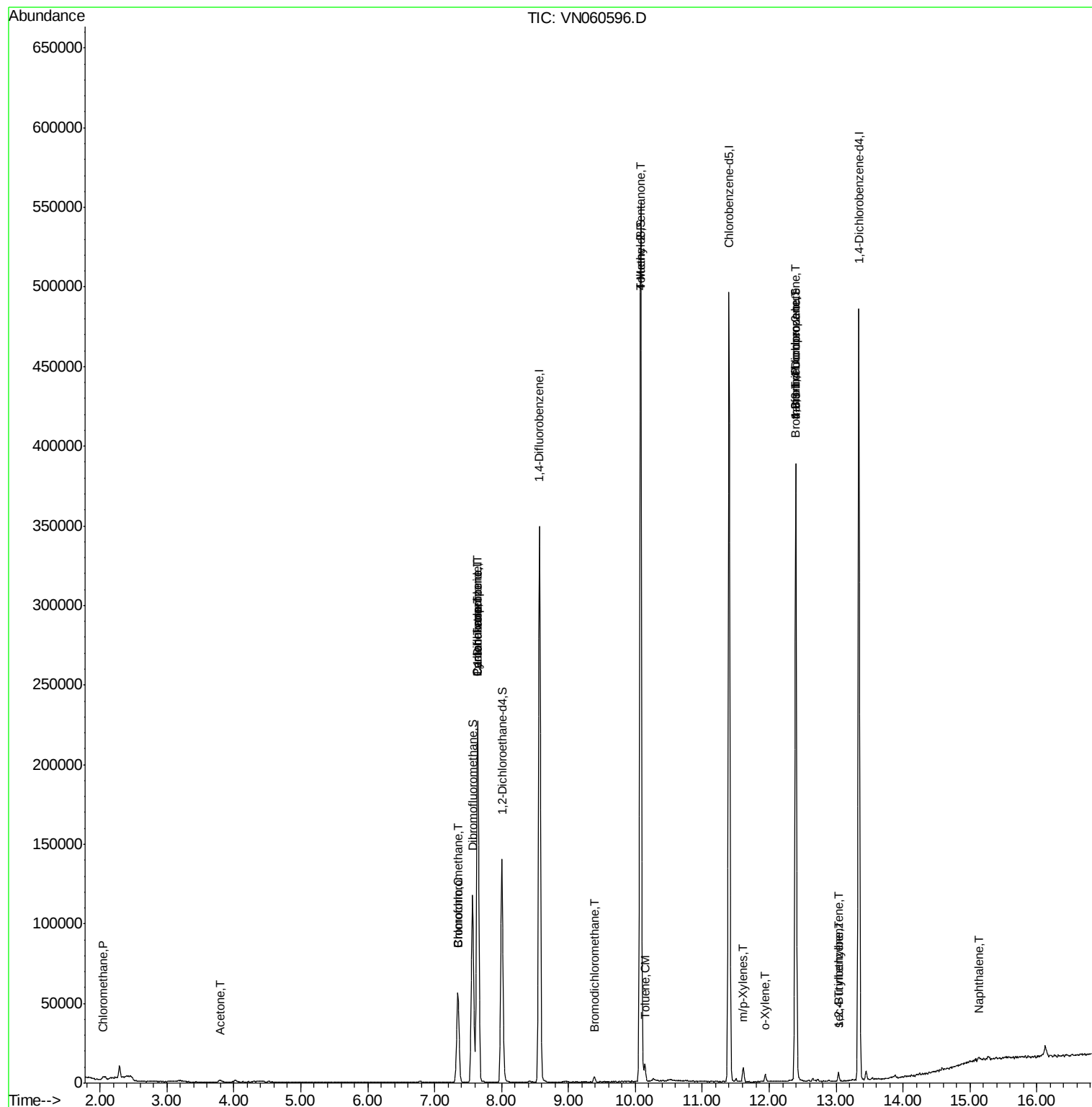
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	842	0.249	ug/l	97
16) Acetone	3.79	43	3045	3.351	ug/l #	85
28) Bromochloromethane	7.35	49	4761	2.428	ug/l #	17
30) Chloroform	7.35	83	59415	15.124	ug/l	99
31) Cyclohexane	7.64	56	3960	0.959	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	14425	4.837	ug/l #	50
38) Carbon Tetrachloride	7.64	117	17627	6.594	ug/l #	16
47) Bromodichloromethane	9.39	83	2741	0.918	ug/l #	87
51) 4-Methyl-2-Pentanone	10.08	43	1748	0.578	ug/l #	1
52) Toluene	10.14	92	4474	0.823	ug/l	95
68) m/p-Xylenes	11.62	106	2995	0.764	ug/l	97
69) o-Xylene	11.94	106	1483	0.396	ug/l	95
71) Bromoform	12.38	173	70	1.720	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	69681	25.367	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	69681	65.150	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.03	105	3844	0.479	ug/l	99
85) sec-Butylbenzene	13.03	105	3844	0.425	ug/l #	58
95) Naphthalene	15.13	128	1561	0.218	ug/l #	69

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060596.D

Acq: 18 Mar 2020 16:48

Instrument :

MSVOA_N

ClientSampled :

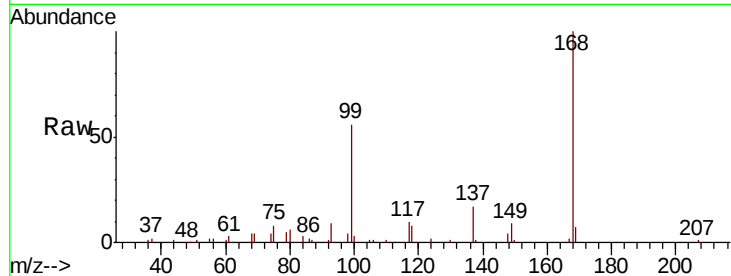
CBH-139

Tot Ion:168 Resp: 186856

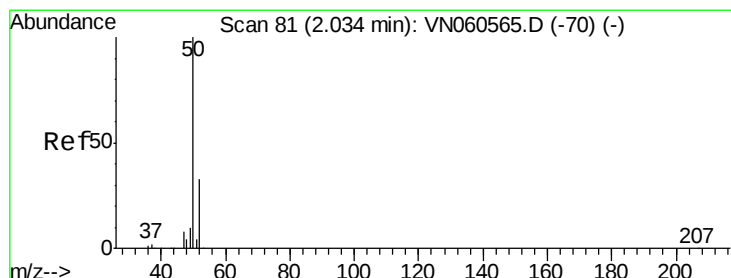
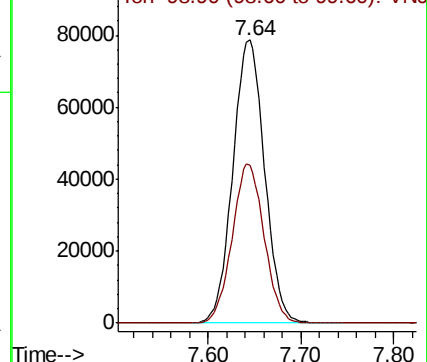
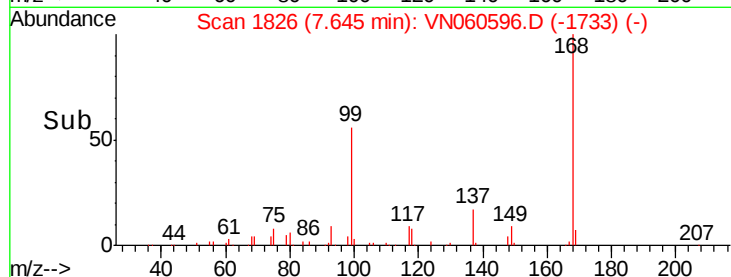
Ion Ratio Lower Upper

168 100

99 55.8 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): VN060565.D (-1807) (-)



#3

Chloromethane

Concen: 0.249 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN060596.D

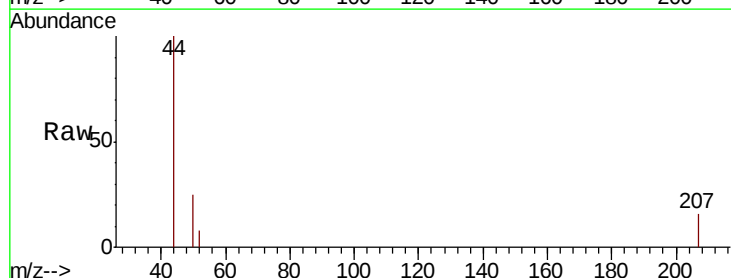
Acq: 18 Mar 2020 16:48

Tgt Ion: 50 Resp: 842

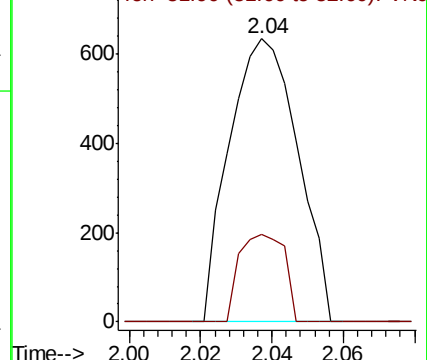
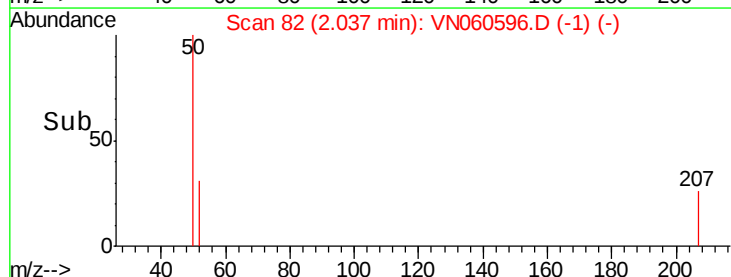
Ion Ratio Lower Upper

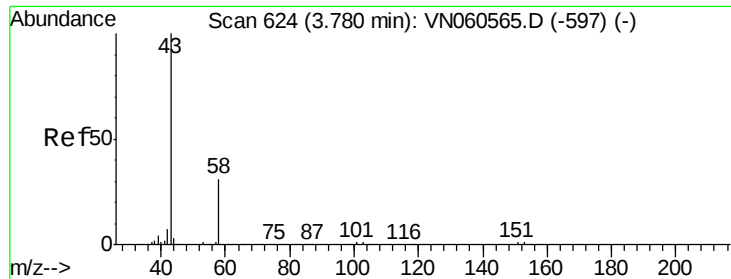
50 100

52 31.1 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VN060565.D (-70) (-)





#16

Acetone

Concen: 3.351 ug/l

RT: 3.79 min Scan# 628

Delta R.T. 0.01 min

Lab File: VN060596.D

Acq: 18 Mar 2020 16:48

Instrument :

MSVOA_N

ClientSampleId :

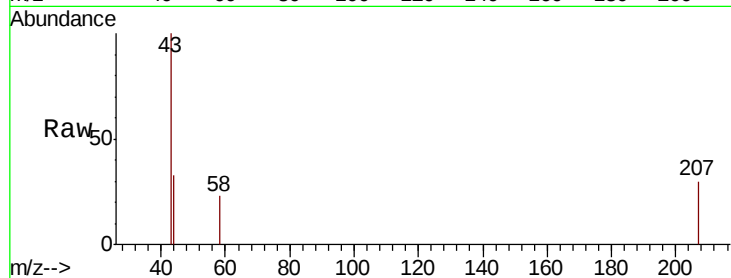
CBH-139

Tot Ion: 43 Resp: 3045

Ion Ratio Lower Upper

43 100

58 23.0 25.1 37.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.79

1200

1000

800

600

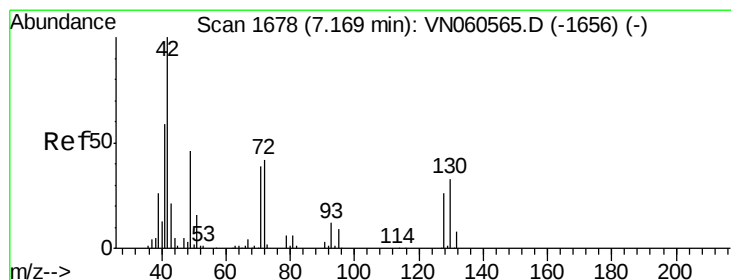
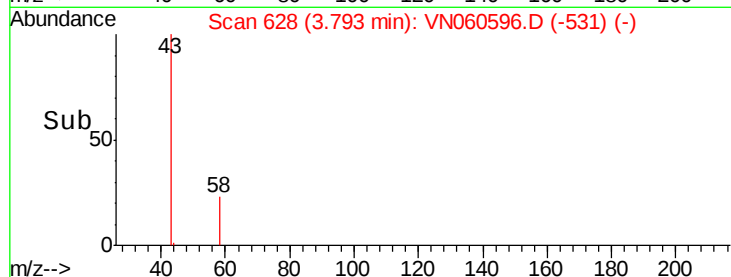
400

200

0

3.75 3.80 3.85

Time-->



#28

Bromochloromethane

Concen: 2.428 ug/l

RT: 7.35 min Scan# 1733

Delta R.T. 0.18 min

Lab File: VN060596.D

Acq: 18 Mar 2020 16:48

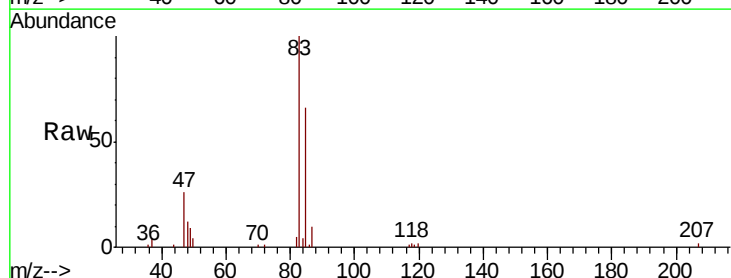
Tgt Ion: 49 Resp: 4761

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.4

130 0.0 55.0 82.4#



Abundance Ion 48.90 (48.60 to 49.60): VN0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

2500

2000

1500

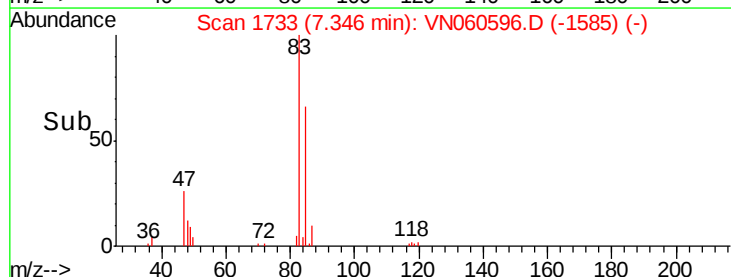
1000

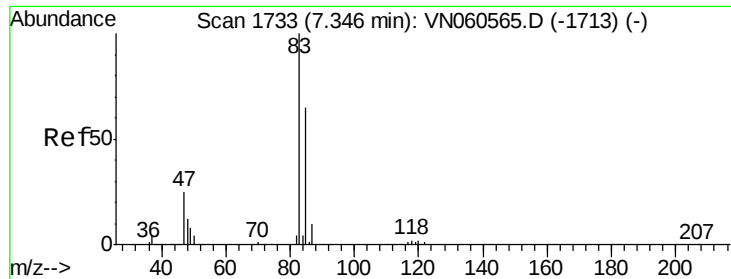
500

0

7.30 7.35 7.40

Time-->

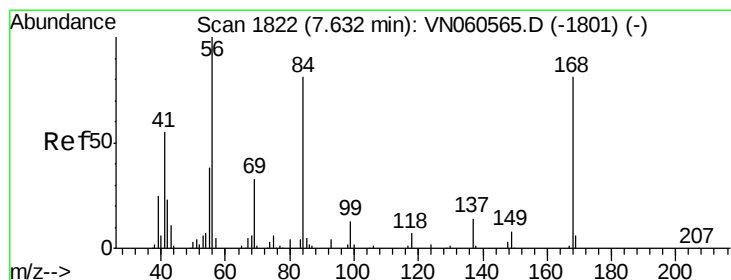
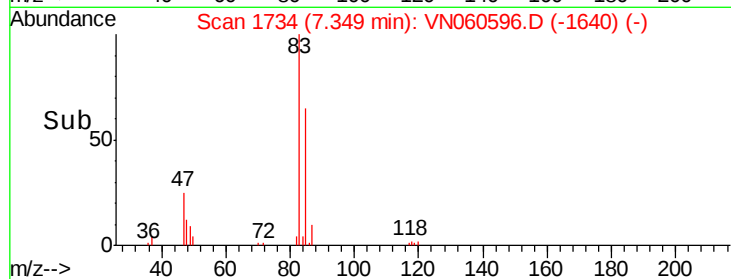
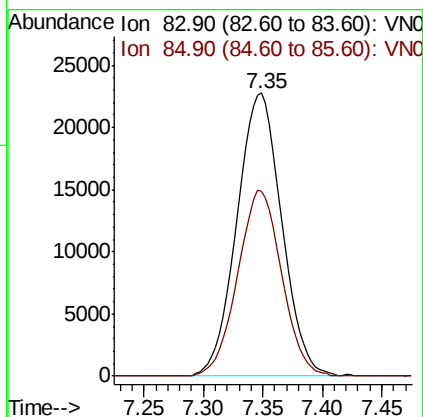
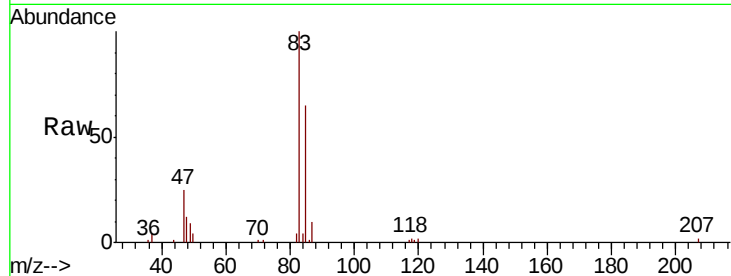




#30
Chloroform
Concen: 15.124 ug/l
RT: 7.35 min Scan# 1734
Delta R.T. 0.00 min
Lab File: VN060596.D
Acq: 18 Mar 2020 16:48

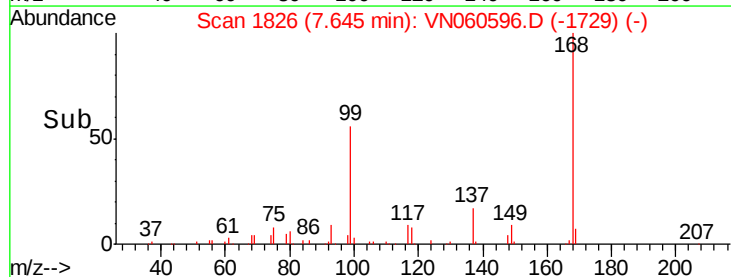
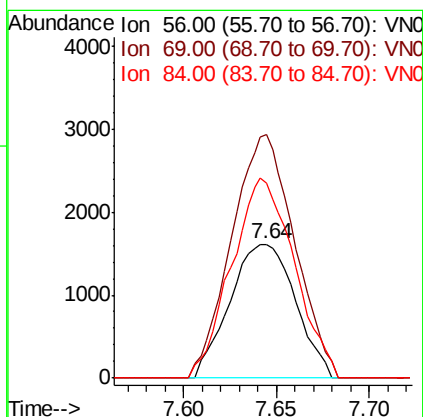
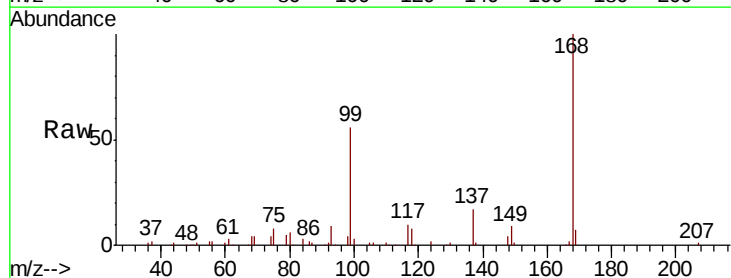
Instrument :
MSVOA_N
ClientSampled :
CBH-139

Tot Ion: 83 Resp: 59415
Ion Ratio Lower Upper
83 100
85 65.4 51.8 77.8



#31
Cyclohexane
Concen: 0.959 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN060596.D
Acq: 18 Mar 2020 16:48

Tgt Ion: 56 Resp: 3960
Ion Ratio Lower Upper
56 100
69 182.2 26.6 40.0#
84 145.7 64.3 96.5#

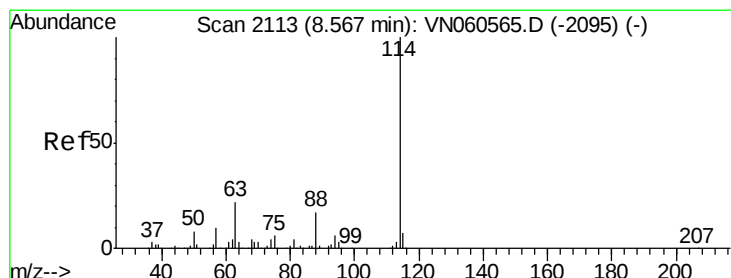
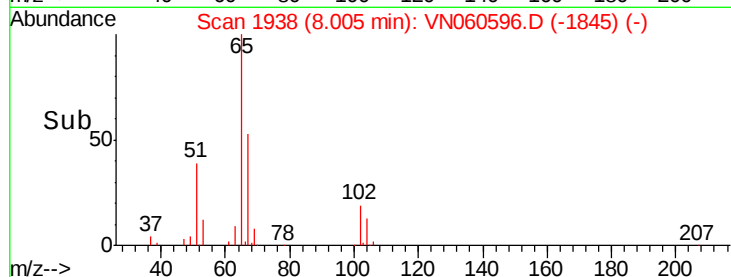
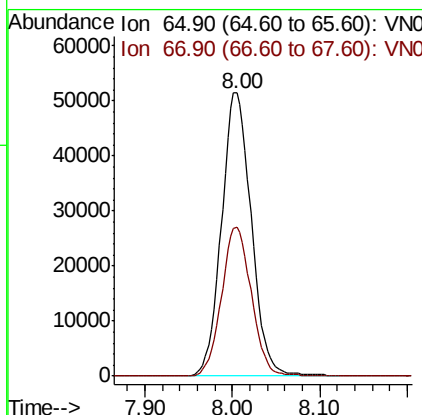
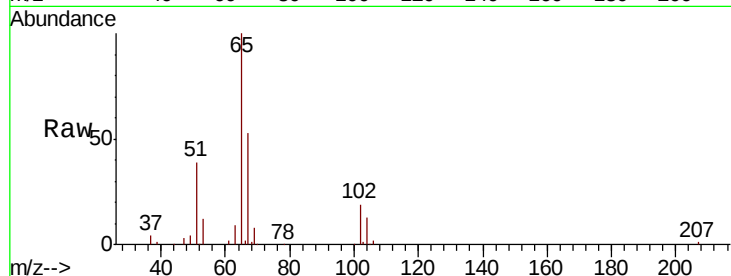




#33
 1,2-Dichloroethane-d4
 Concen: 47.398 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN060596.D
 Acq: 18 Mar 2020 16:48

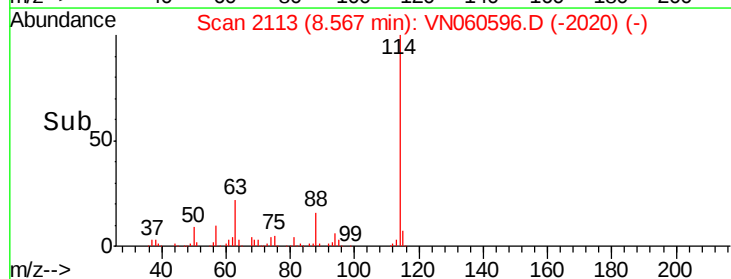
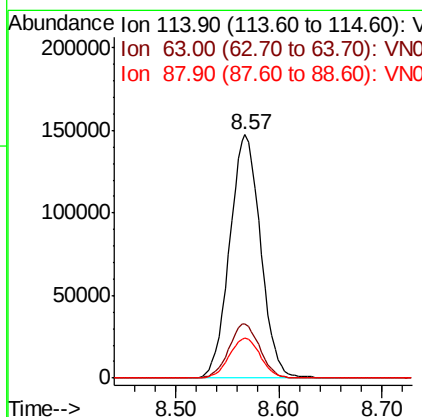
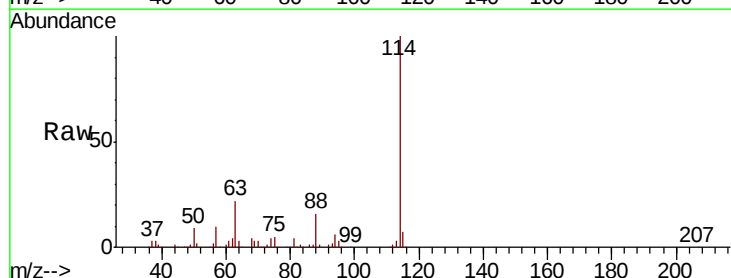
Instrument :
 MSVOA_N
 ClientSampled :
 CBH-139

Tot Ion: 65 Resp: 121582
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060596.D
 Acq: 18 Mar 2020 16:48

Tgt Ion: 114 Resp: 308011
 Ion Ratio Lower Upper
 114 100
 63 22.1 0.0 43.8
 88 16.5 0.0 33.0

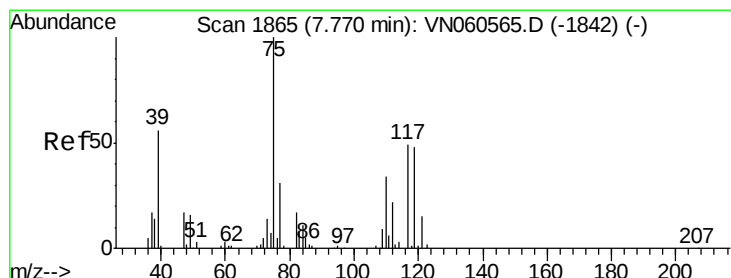
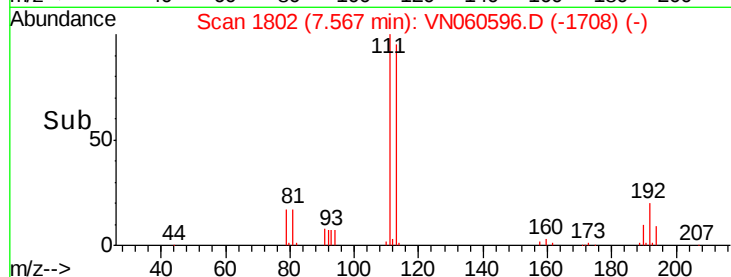
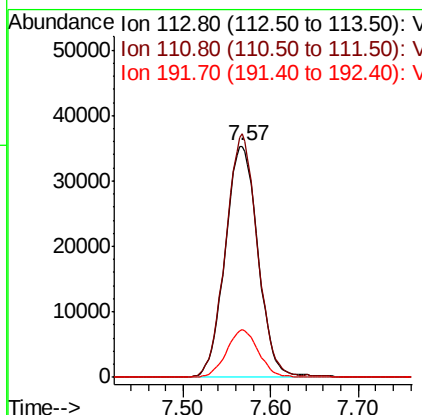
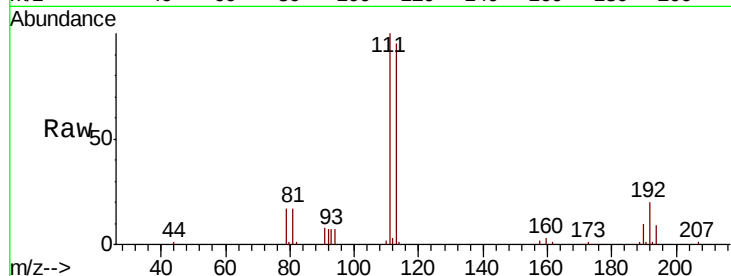




#35
 Dibromofluoromethane
 Concen: 49.324 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN060596.D
 Acq: 18 Mar 2020 16:48

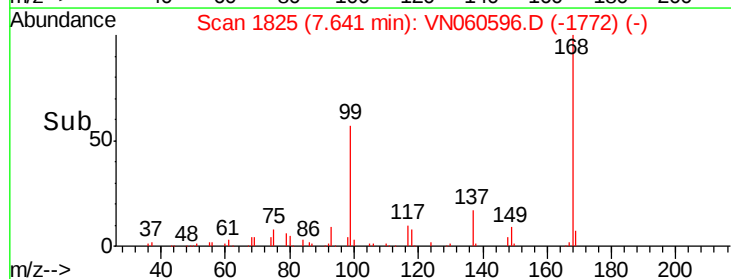
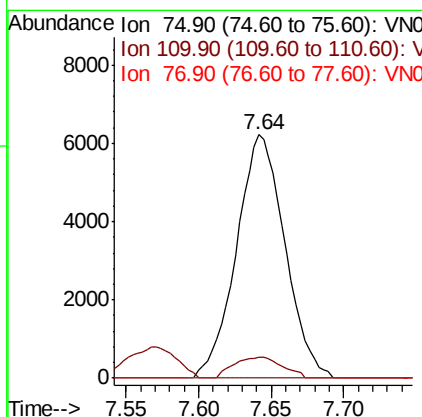
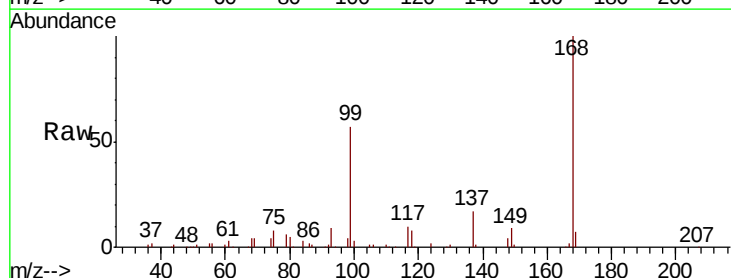
Instrument :
 MSVOA_N
 ClientSampleId :
 CBH-139

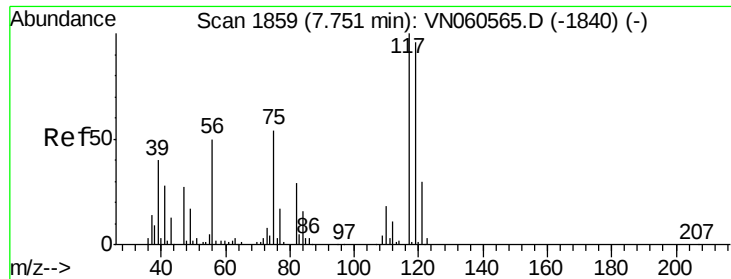
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.5	82.9	124.3
192	19.9	15.8	23.8



#36
 1,1-Dichloropropene
 Concen: 4.837 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060596.D
 Acq: 18 Mar 2020 16:48

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.6	16.9	50.6#
77	0.0	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 6.594 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060596.D

Acq: 18 Mar 2020 16:48

Instrument :

MSVOA_N

ClientSampleId :

CBH-139

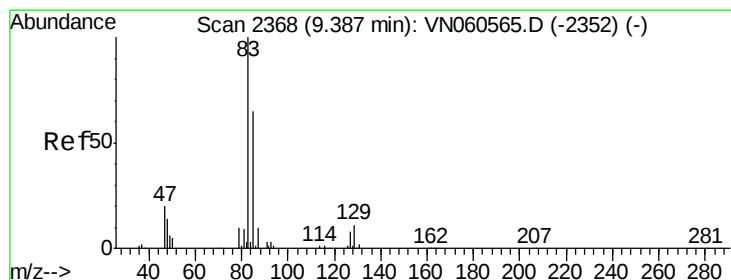
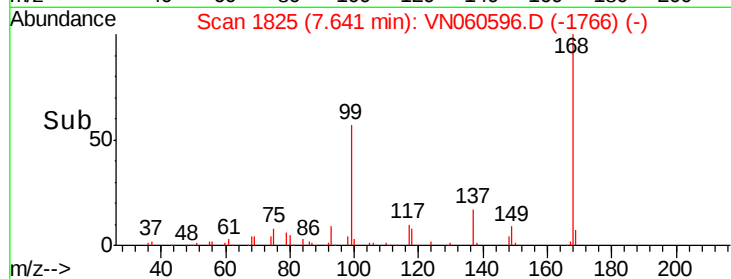
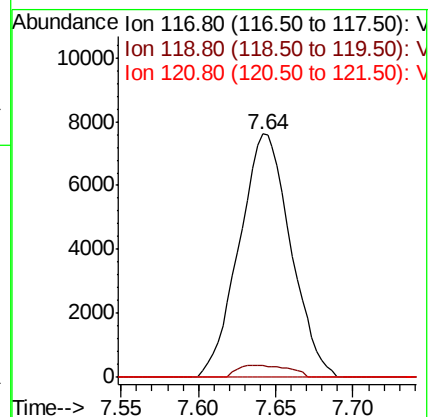
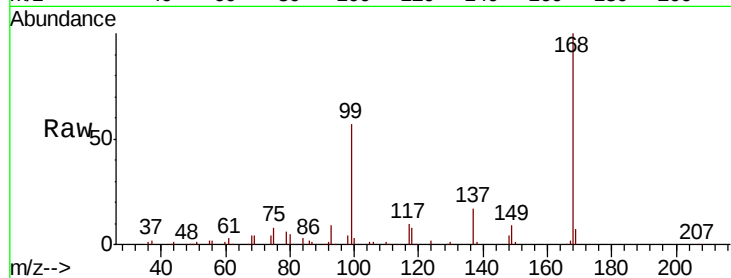
Tot Ion:117 Resp: 17627

Ion Ratio Lower Upper

117 100

119 4.8 76.2 114.2#

121 0.0 23.7 35.5#



#47

Bromodichloromethane

Concen: 0.918 ug/l

RT: 9.39 min Scan# 2368

Delta R.T. 0.00 min

Lab File: VN060596.D

Acq: 18 Mar 2020 16:48

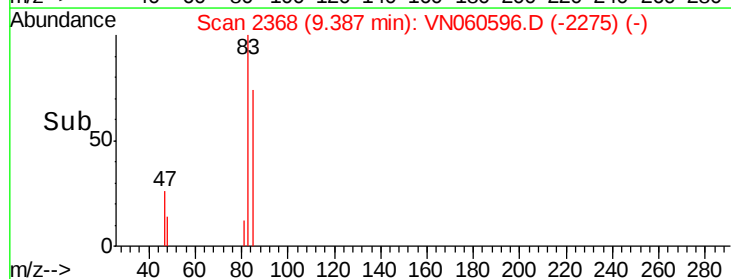
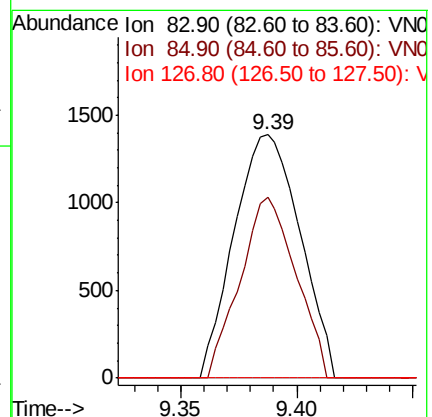
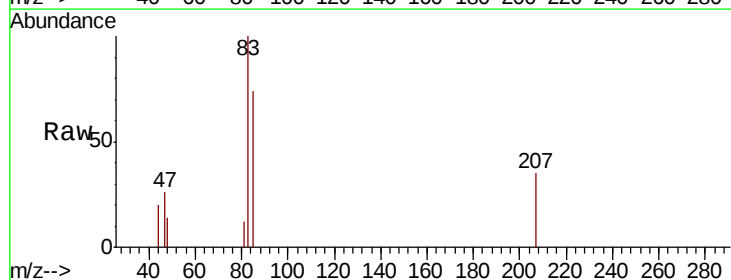
Tgt Ion: 83 Resp: 2741

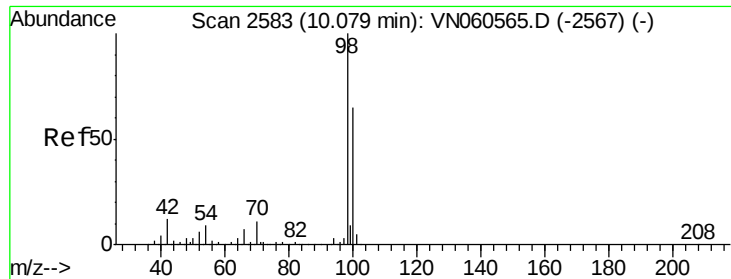
Ion Ratio Lower Upper

83 100

85 74.2 51.8 77.6

127 0.0 6.5 9.7#





#50

Toluene-d8

Concen: 49.759 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060596.D

Acq: 18 Mar 2020 16:48

Instrument :

MSVOA_N

ClientSampleId :

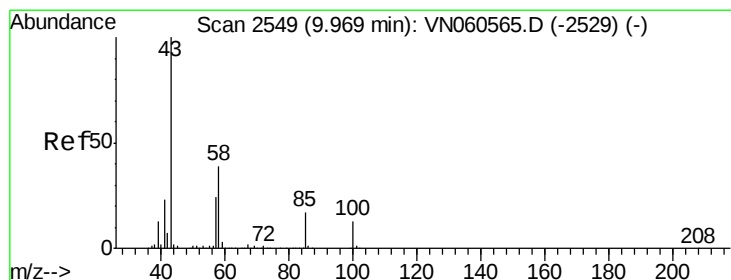
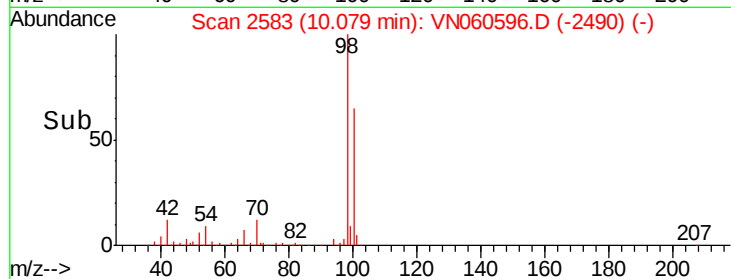
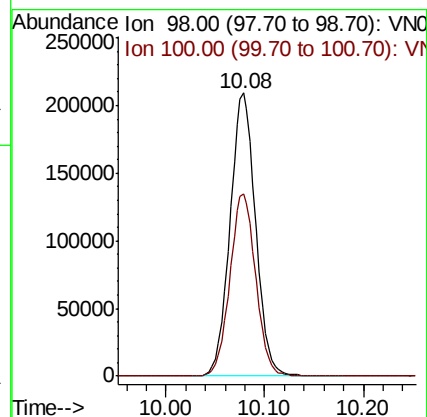
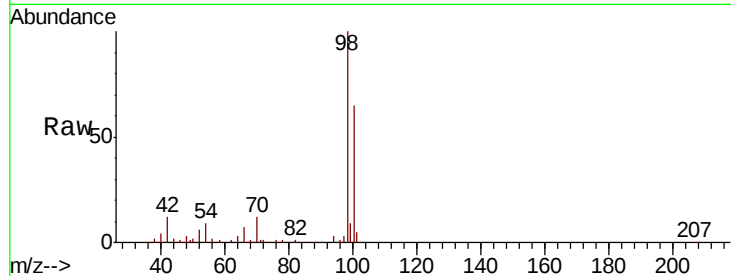
CBH-139

Tot Ion: 98 Resp: 378533

Ion Ratio Lower Upper

98 100

100 65.2 51.8 77.8



#51

4-Methyl-2-Pentanone

Concen: 0.578 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. 0.11 min

Lab File: VN060596.D

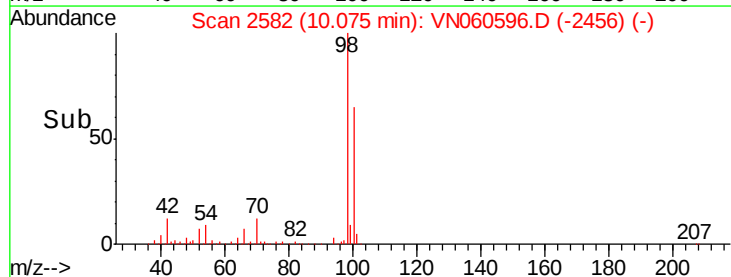
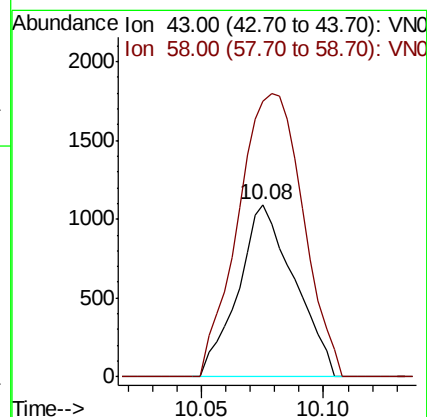
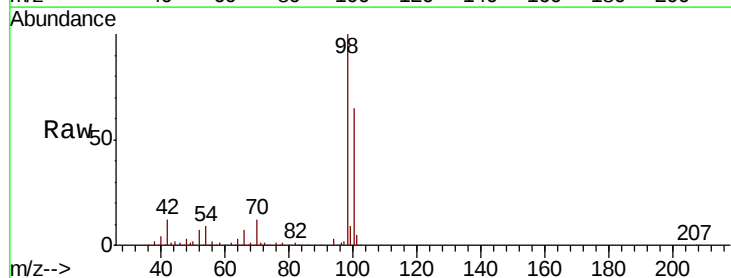
Acq: 18 Mar 2020 16:48

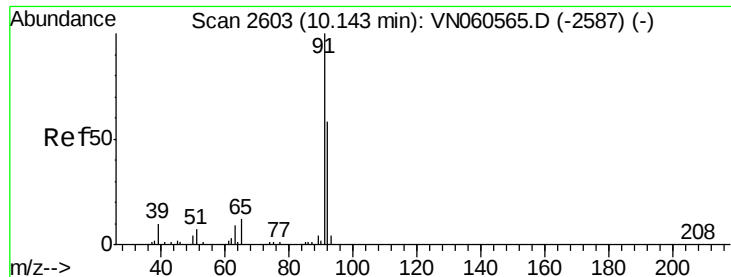
Tgt Ion: 43 Resp: 1748

Ion Ratio Lower Upper

43 100

58 189.5 30.8 46.2#





#52

Toluene

Concen: 0.823 ug/l

RT: 10.14 min Scan# 2603

Delta R.T. 0.00 min

Lab File: VN060596.D

Acq: 18 Mar 2020 16:48

Instrument :

MSVOA_N

ClientSampleId :

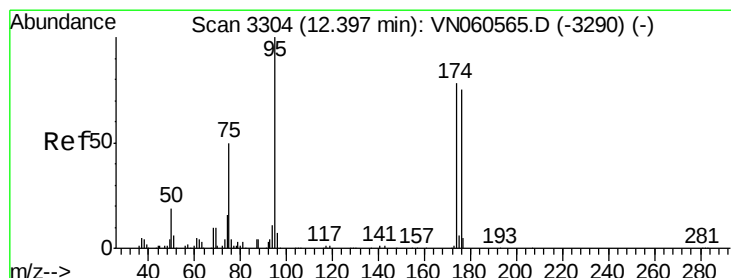
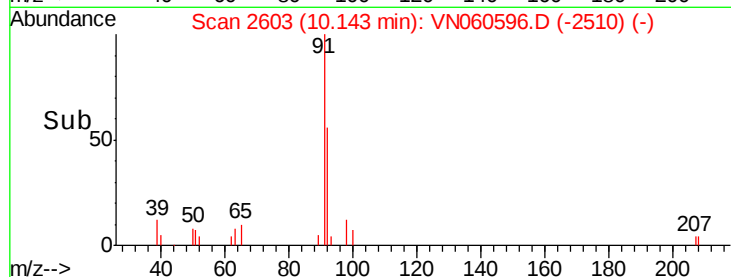
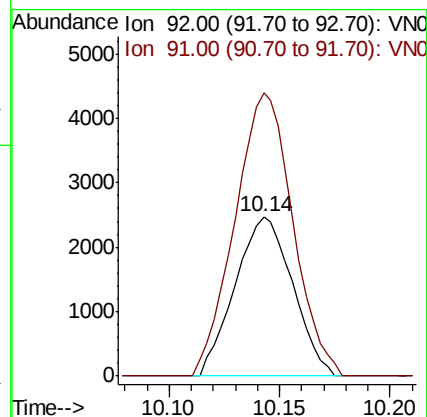
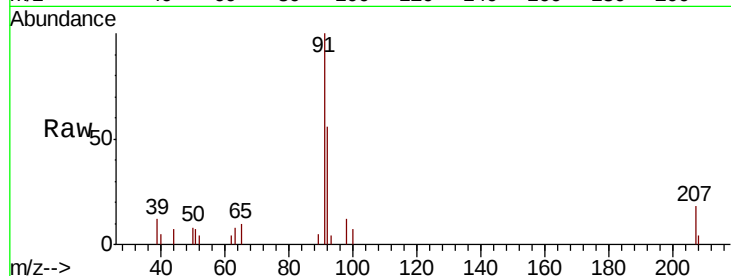
CBH-139

Tot Ion: 92 Resp: 4474

Ion Ratio Lower Upper

92 100

91 179.3 137.6 206.4



#62

4-Bromofluorobenzene

Concen: 49.565 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060596.D

Acq: 18 Mar 2020 16:48

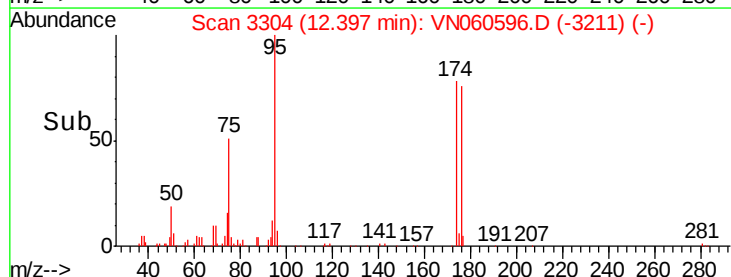
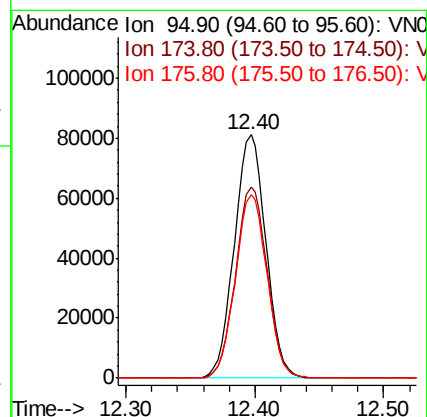
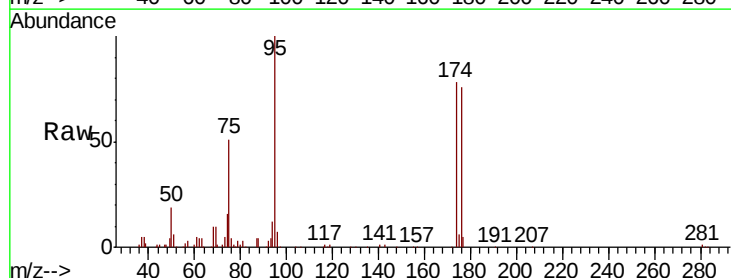
Tgt Ion: 95 Resp: 138187

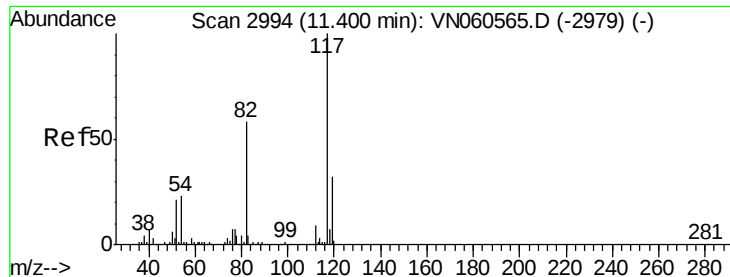
Ion Ratio Lower Upper

95 100

174 78.5 0.0 157.6

176 75.5 0.0 150.6

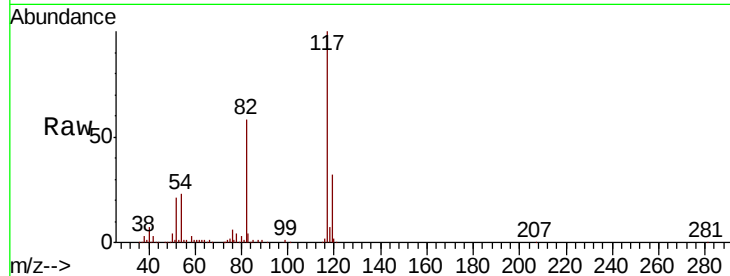




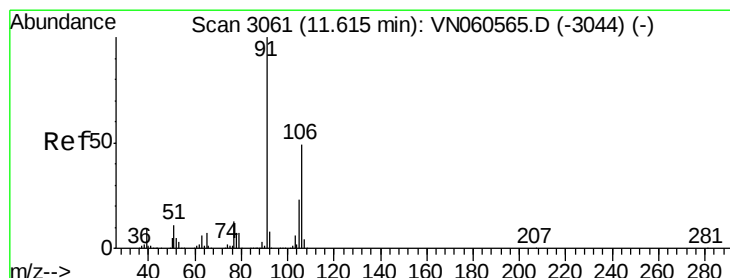
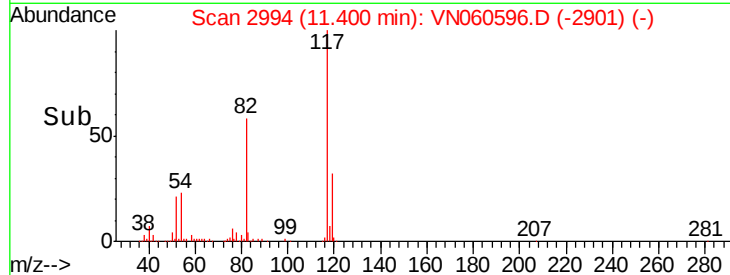
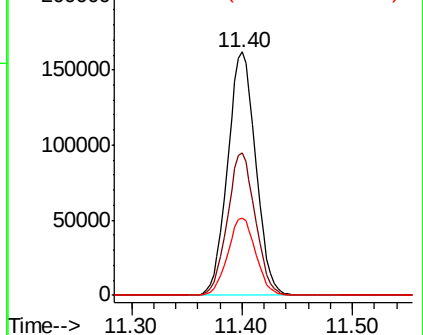
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060596.D
Acq: 18 Mar 2020 16:48

Instrument :
MSVOA_N
ClientSampled :
CBH-139

Tot Ion:117 Resp: 286135
Ion Ratio Lower Upper
117 100
82 58.4 46.7 70.1
119 31.9 25.5 38.3

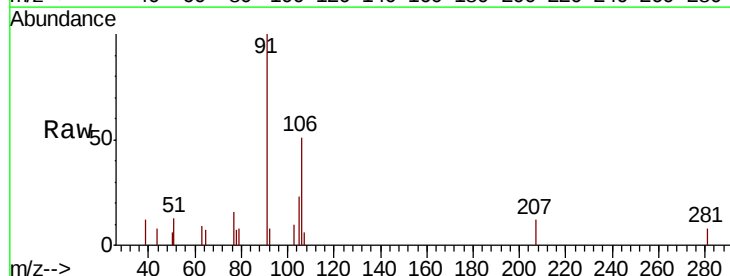


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

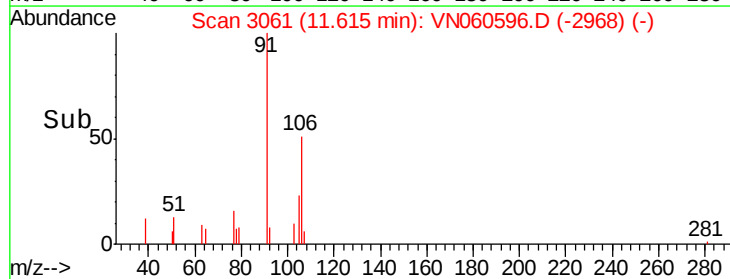
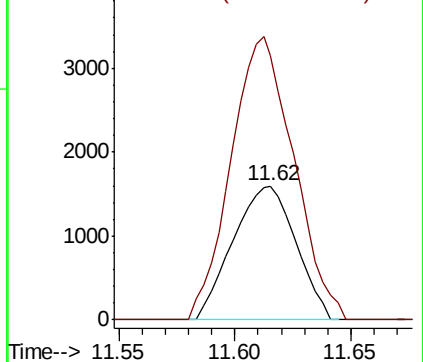


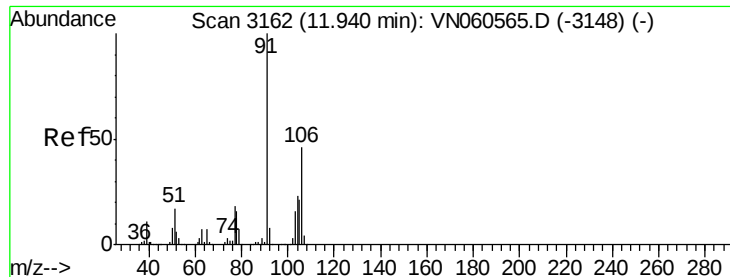
#68
m/p-Xylenes
Concen: 0.764 ug/l
RT: 11.62 min Scan# 3061
Delta R.T. 0.00 min
Lab File: VN060596.D
Acq: 18 Mar 2020 16:48

Tgt Ion:106 Resp: 2995
Ion Ratio Lower Upper
106 100
91 211.0 165.0 247.4



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN

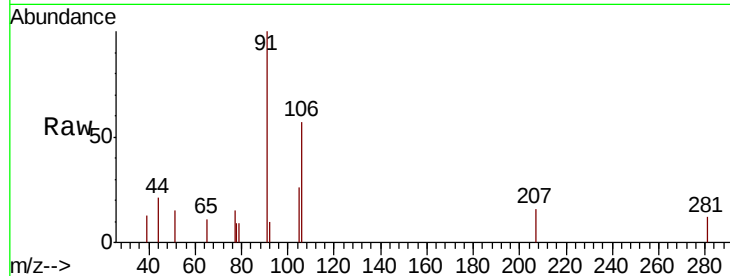




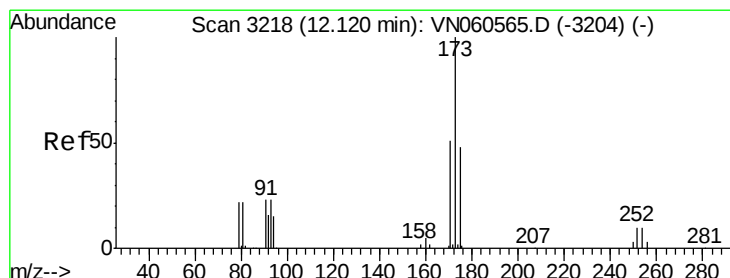
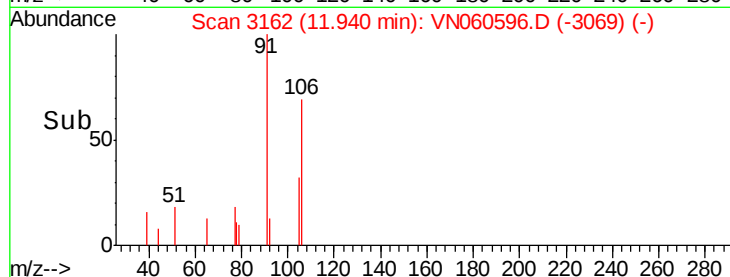
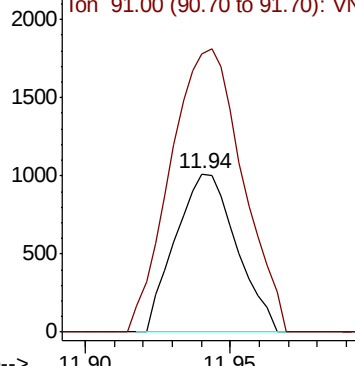
#69
o-Xylene
Concen: 0.396 ug/l
RT: 11.94 min Scan# 3162
Delta R.T. 0.00 min
Lab File: VN060596.D
Acq: 18 Mar 2020 16:48

Instrument :
MSVOA_N
ClientSampleId :
CBH-139

Tot Ion:106 Resp: 1483
Ion Ratio Lower Upper
106 100
91 210.7 109.5 328.4

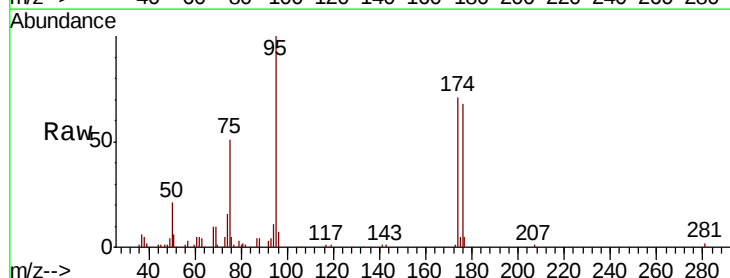


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN

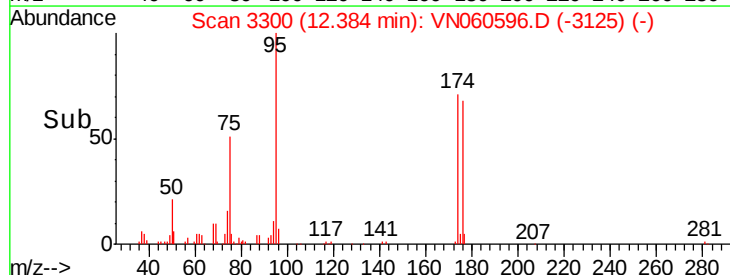
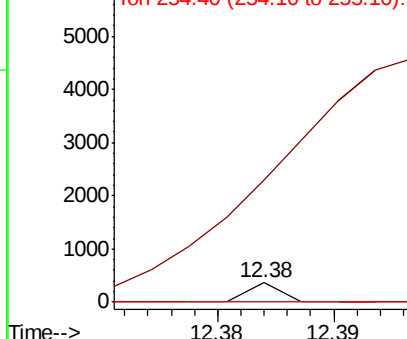


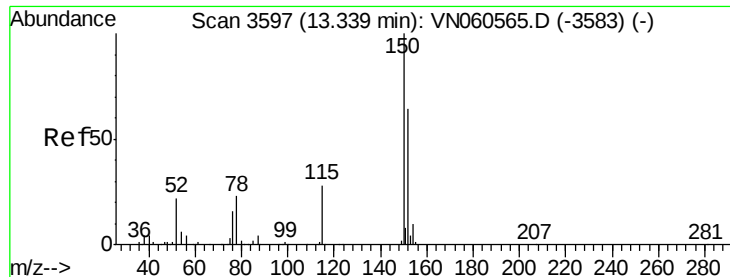
#71
Bromoform
Concen: 1.720 ug/l
RT: 12.38 min Scan# 3300
Delta R.T. 0.26 min
Lab File: VN060596.D
Acq: 18 Mar 2020 16:48

Tgt Ion:173 Resp: 70
Ion Ratio Lower Upper
173 100
175 9240.0 24.1 72.4#
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060596.D

Acq: 18 Mar 2020 16:48

Instrument :

MSVOA_N

ClientSampleId :

CBH-139

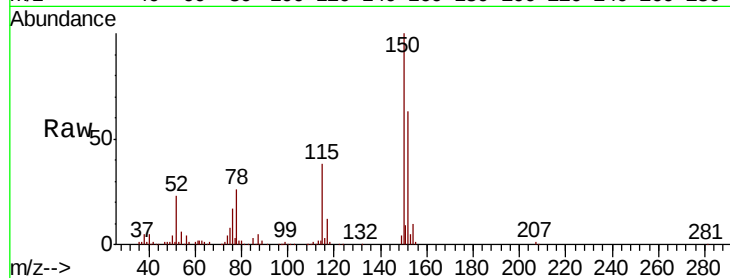
Tot Ion:152 Resp: 127303

Ion Ratio Lower Upper

152 100

115 59.3 30.2 90.6

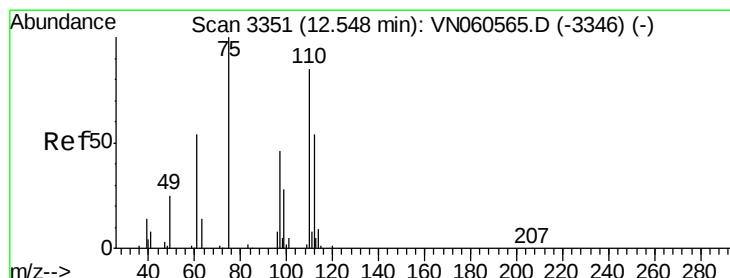
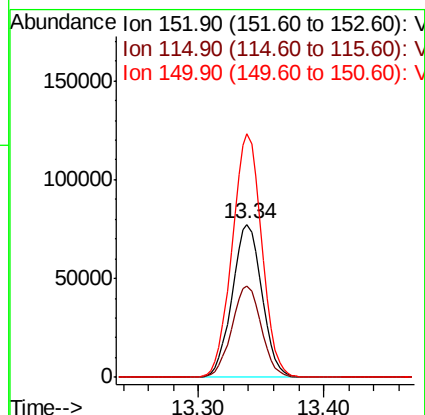
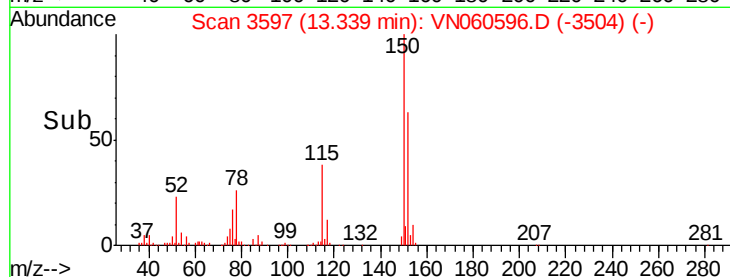
150 158.3 0.0 350.2



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: 25.367 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060596.D

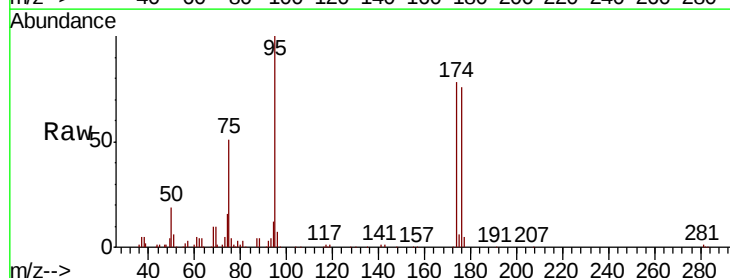
Acq: 18 Mar 2020 16:48

Tgt Ion: 75 Resp: 69681

Ion Ratio Lower Upper

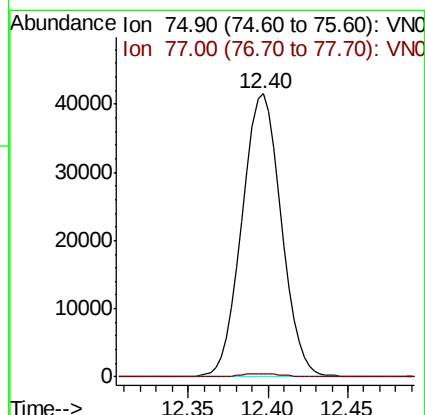
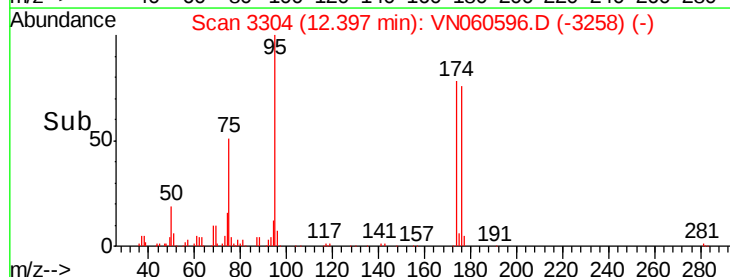
75 100

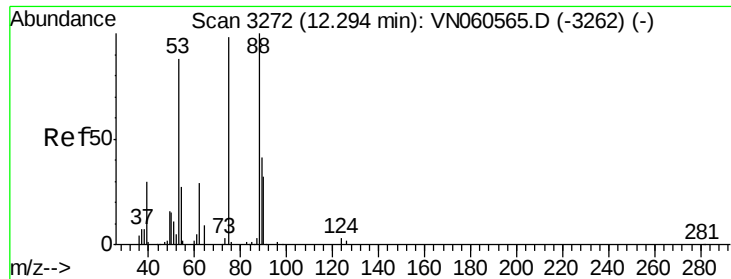
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 65.150 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060596.D

Acq: 18 Mar 2020 16:48

Instrument :

MSVOA_N

ClientSampled :

CBH-139

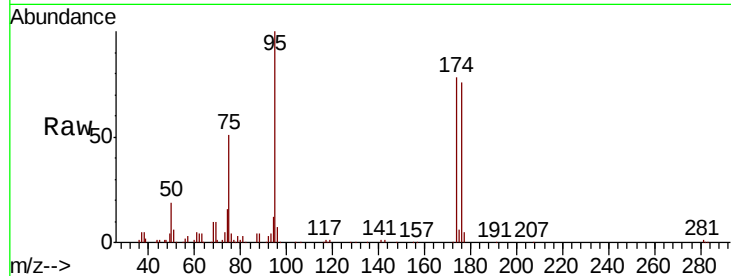
Tot Ion: 75 Resp: 69681

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

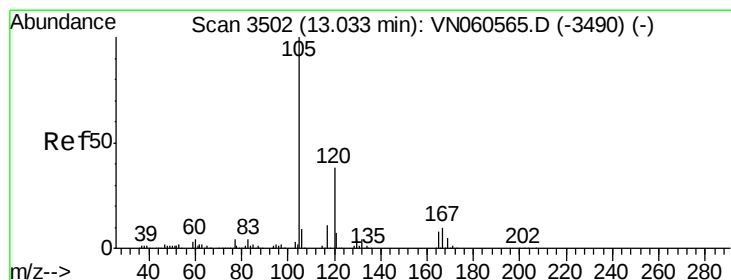
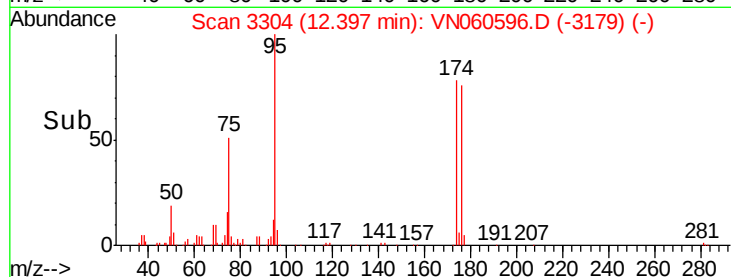
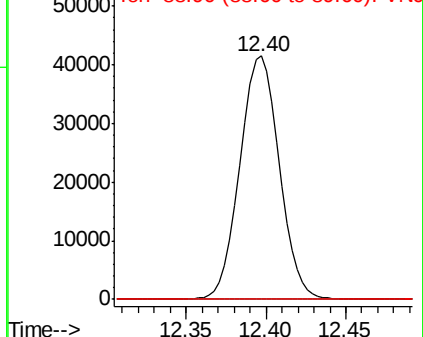
89 0.0 34.8 52.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#84

1,2,4-Trimethylbenzene

Concen: 0.479 ug/l

RT: 13.03 min Scan# 3502

Delta R.T. 0.00 min

Lab File: VN060596.D

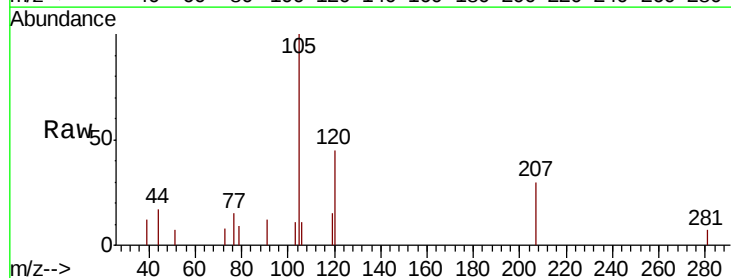
Acq: 18 Mar 2020 16:48

Tgt Ion: 105 Resp: 3844

Ion Ratio Lower Upper

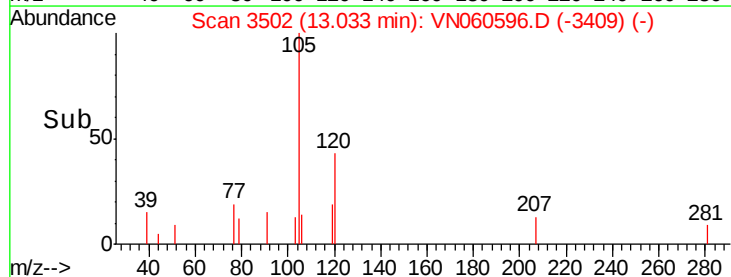
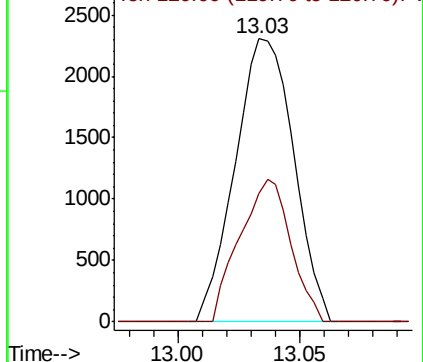
105 100

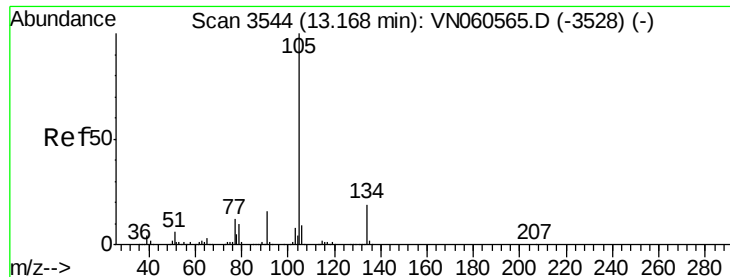
120 43.8 22.1 66.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 0.425 ug/l

RT: 13.03 min Scan# 3502

Delta R.T. -0.14 min

Lab File: VN060596.D

Acq: 18 Mar 2020 16:48

Instrument :

MSVOA_N

ClientSampled :

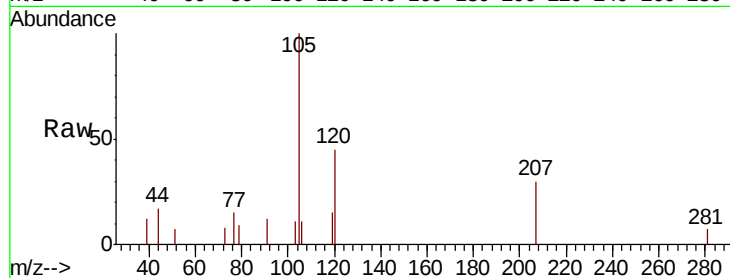
CBH-139

Tot Ion:105 Resp: 3844

Ion Ratio Lower Upper

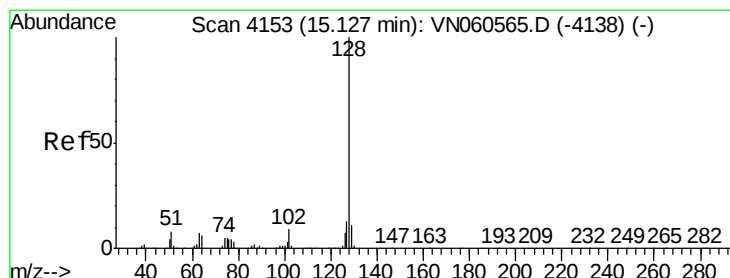
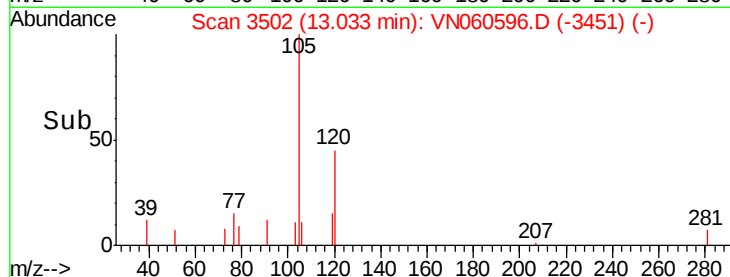
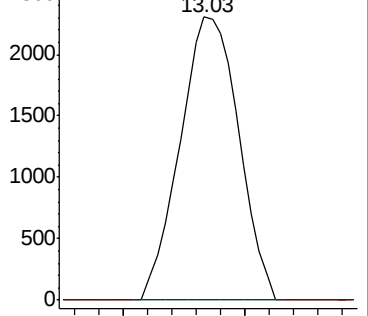
105 100

134 0.0 9.6 28.8#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#95

Naphthalene

Concen: 0.218 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN060596.D

Acq: 18 Mar 2020 16:48

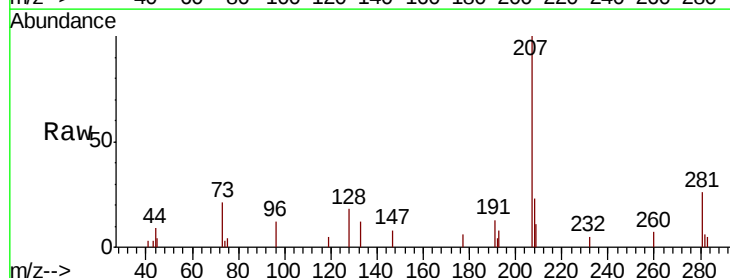
Tgt Ion:128 Resp: 1561

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 8.8 13.2#



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

