

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX040820\
 Data File : VX015565.D
 Acq On : 08 Apr 2020 13:46
 Operator : JC/SP
 Sample : L2151-13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CBH-594

Quant Time: Apr 09 06:19:53 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032720W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 27 09:35:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	1069860	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	1692200	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1618489	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	884246	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	703290	46.61	ug/l	0.00
Spiked Amount			Recovery	=	93.22%	
35) Dibromofluoromethane	5.47	113	534906	49.45	ug/l	0.00
Spiked Amount			Recovery	=	98.90%	
50) Toluene-d8	8.70	98	2028300	50.93	ug/l	0.00
Spiked Amount			Recovery	=	101.86%	
62) 4-Bromofluorobenzene	11.12	95	883265	54.57	ug/l	0.00
Spiked Amount			Recovery	=	109.14%	

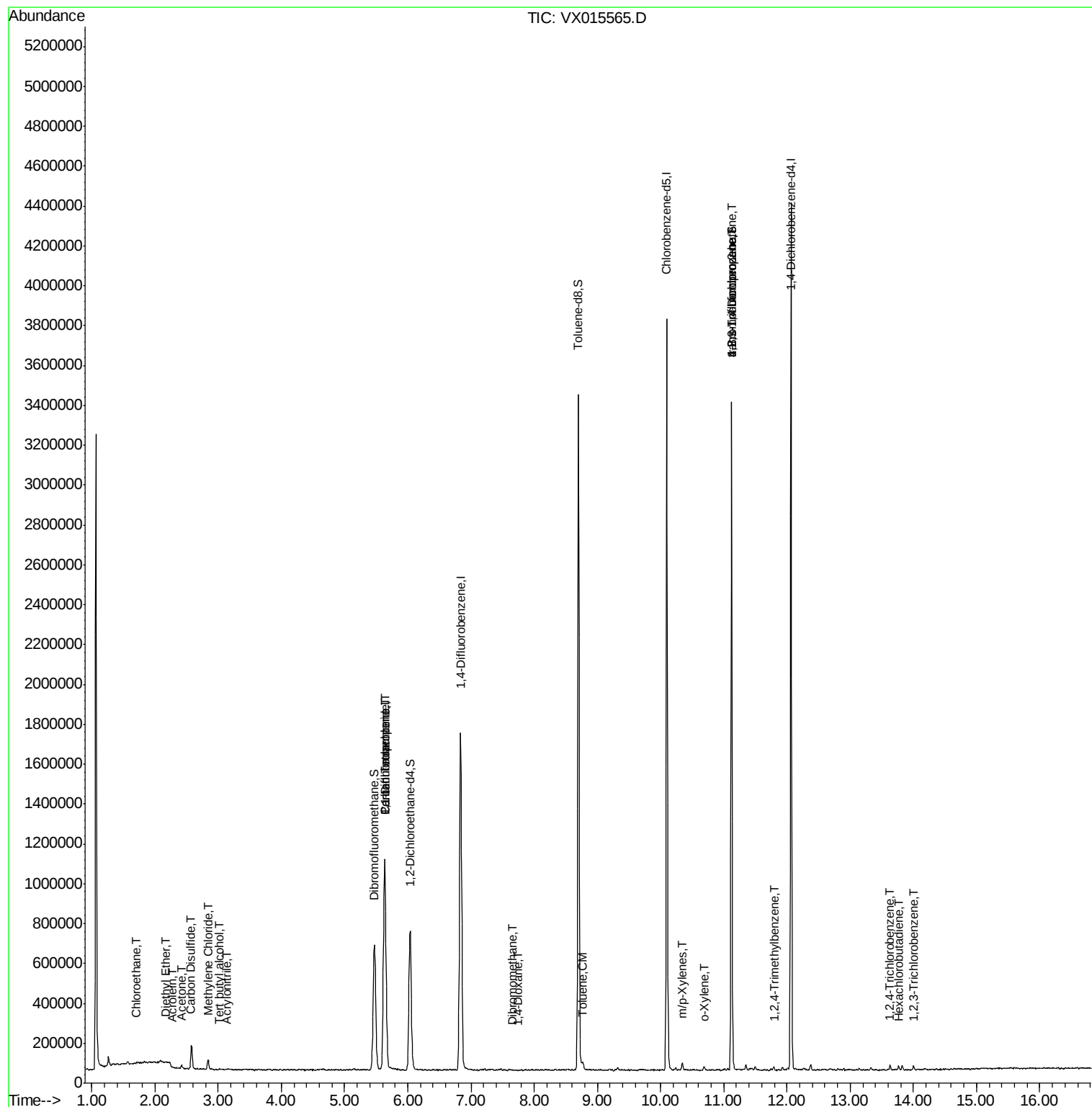
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.62	94	519	Below Cal	#	3
6) Chloroethane	1.71	64	1704	0.249	ug/l #	46
8) Diethyl Ether	2.17	74	1835	0.294	ug/l	60
11) Tert butyl alcohol	3.02	59	1792	0.496	ug/l #	83
13) Acrolein	2.28	56	1996	0.970	ug/l	84
15) Acrylonitrile	3.13	53	3284	0.477	ug/l #	50
16) Acetone	2.42	43	25555	3.942	ug/l #	87
17) Carbon Disulfide	2.56	76	7802	0.253	ug/l #	83
20) Methylene Chloride	2.84	84	21549	1.780	ug/l	95
36) 1,1-Dichloropropene	5.63	75	78143	5.012	ug/l #	52
38) Carbon Tetrachloride	5.64	117	100955	5.978	ug/l #	15
46) Dibromomethane	7.66	93	1936	0.236	ug/l #	12
49) 1,4-Dioxane	7.74	88	506	1.585	ug/l #	1
52) Toluene	8.77	92	12918	0.459	ug/l	95
68) m/p-Xylenes	10.34	106	8780	0.412	ug/l	97
69) o-Xylene	10.68	106	4796	0.228	ug/l	97
76) 1,2,3-Trichloropropane	11.12	75	450608	24.781	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	450608	59.460	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.79	105	10128	0.201	ug/l	91
93) 1,2,4-Trichlorobenzene	13.63	180	6061	0.283	ug/l	97
94) Hexachlorobutadiene	13.77	225	3490	0.342	ug/l	81
96) 1,2,3-Trichlorobenzene	14.00	180	6251	0.303	ug/l	88

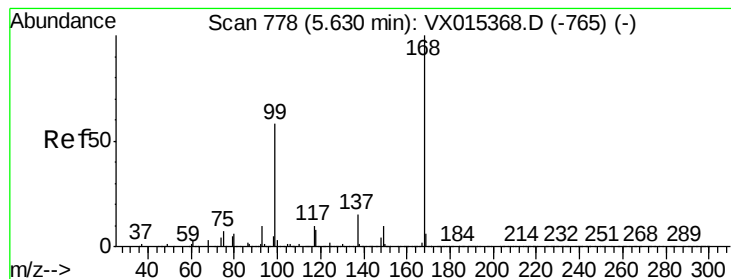
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Apr 09 06:19:53 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X032720W.M
Quant Title : SW846 8260
QLast Update : Fri Mar 27 09:35:51 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 779

Delta R.T. 0.01 min

Lab File: VX015565.D

Acq: 08 Apr 2020 13:46

Instrument :

MSVOA_X

ClientSampleId :

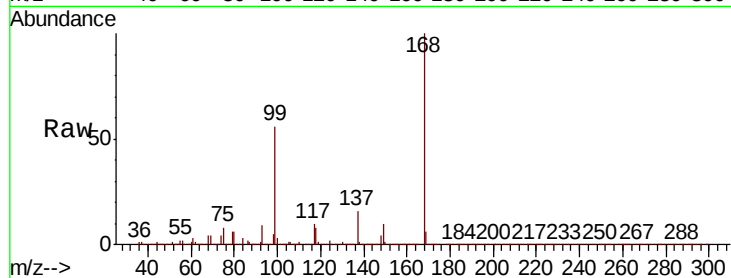
CBH-594

Tot Ion:168 Resp: 1069860

Ion Ratio Lower Upper

168 100

99 55.5 46.4 69.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

400000

300000

200000

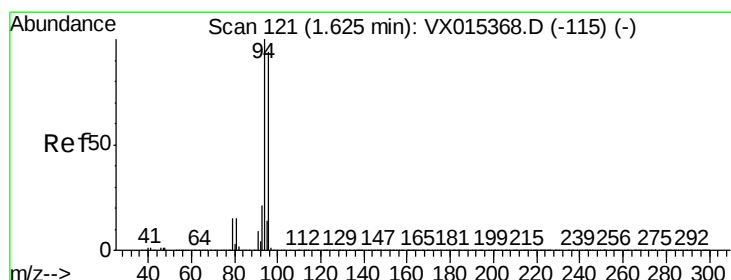
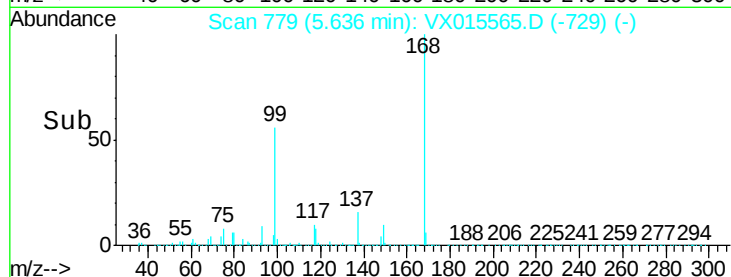
100000

0

5.60

5.80

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 120

Delta R.T. -0.01 min

Lab File: VX015565.D

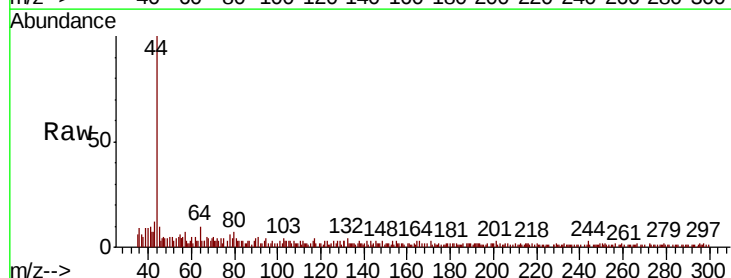
Acq: 08 Apr 2020 13:46

Tgt Ion: 94 Resp: 519

Ion Ratio Lower Upper

94 100

96 0.0 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.62

800

600

400

200

0

1.59

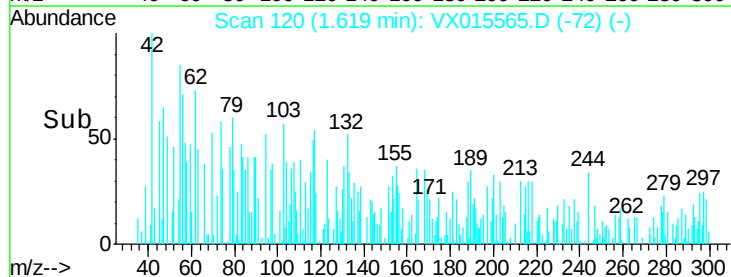
1.60

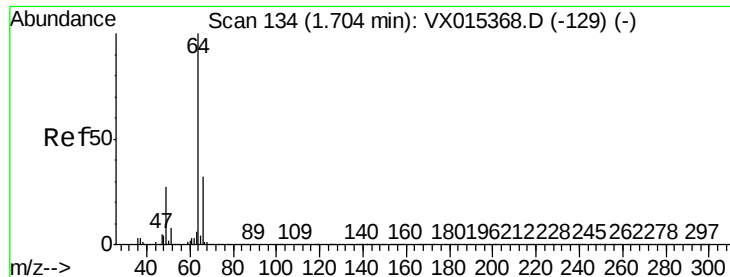
1.61

1.62

1.63

Time-->





#6

Chloroethane

Concen: 0.249 ug/l

RT: 1.71 min Scan# 135

Delta R.T. 0.01 min

Lab File: VX015565.D

Acq: 08 Apr 2020 13:46

Instrument :

MSVOA_X

ClientSampleId :

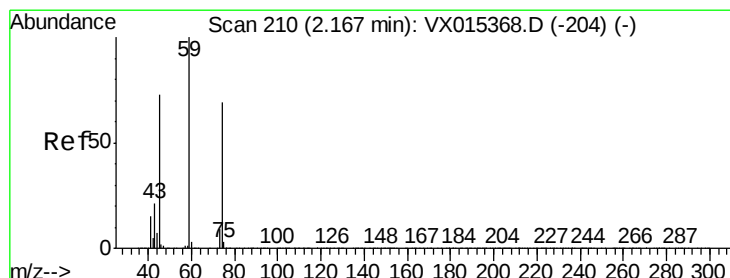
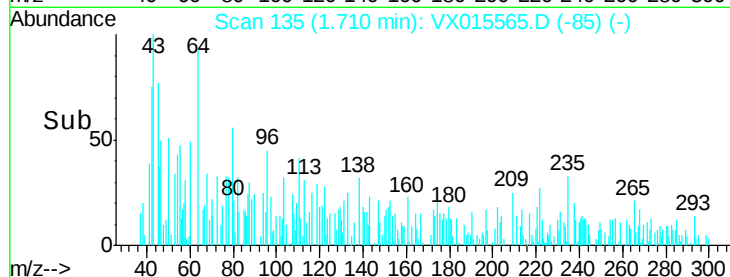
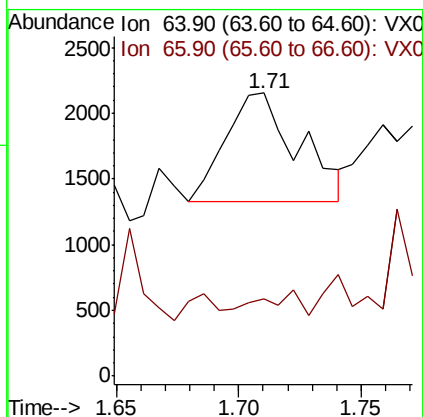
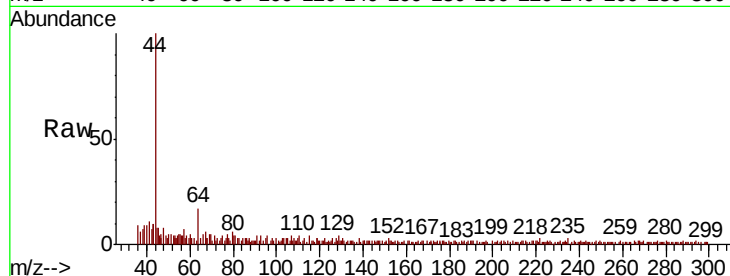
CBH-594

Tot Ion: 64 Resp: 1704

Ion Ratio Lower Upper

64 100

66 1.9 25.4 38.2#



#8

Diethyl Ether

Concen: 0.294 ug/l

RT: 2.17 min Scan# 210

Delta R.T. -0.00 min

Lab File: VX015565.D

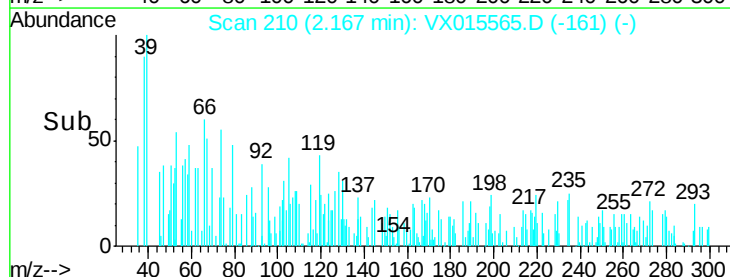
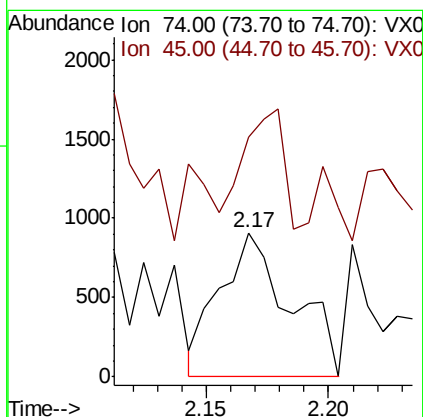
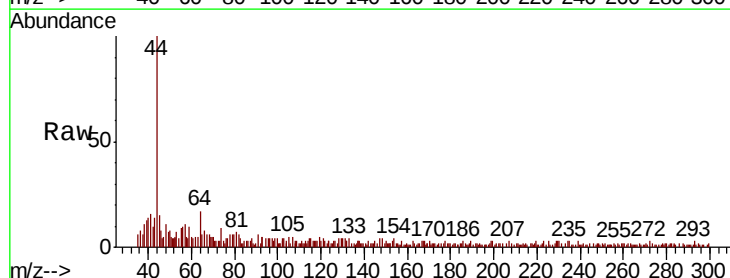
Acq: 08 Apr 2020 13:46

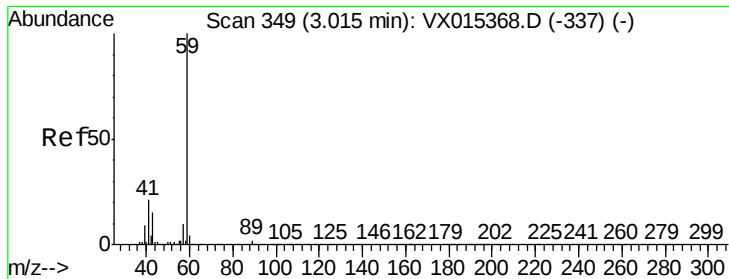
Tgt Ion: 74 Resp: 1835

Ion Ratio Lower Upper

74 100

45 65.4 53.8 161.4

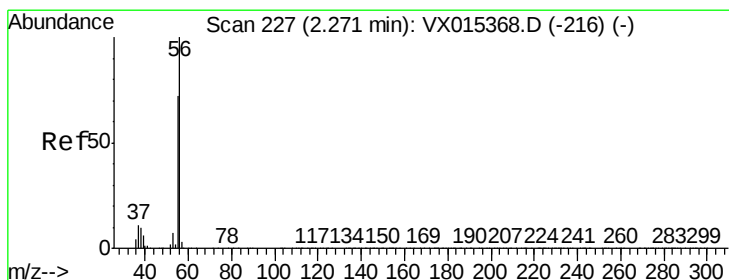
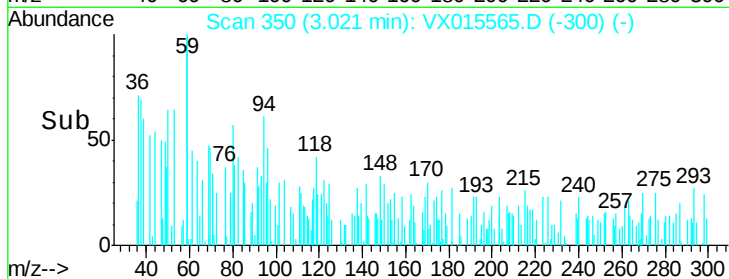
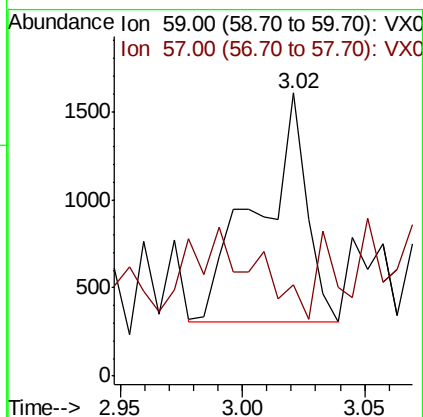
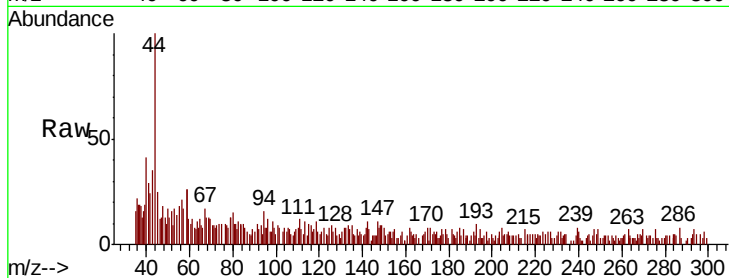




#11
Tert butvl alcohol
Concen: 0.496 ug/l
RT: 3.02 min Scan# 350
Delta R.T. 0.01 min
Lab File: VX015565.D
Acq: 08 Apr 2020 13:46

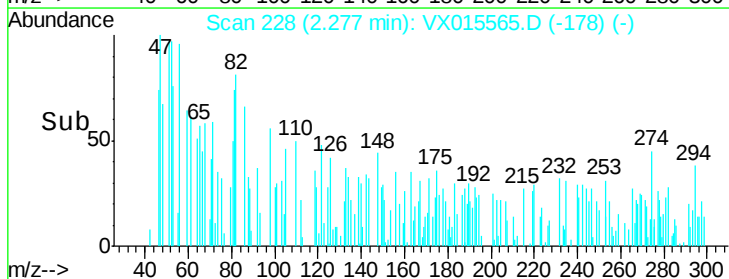
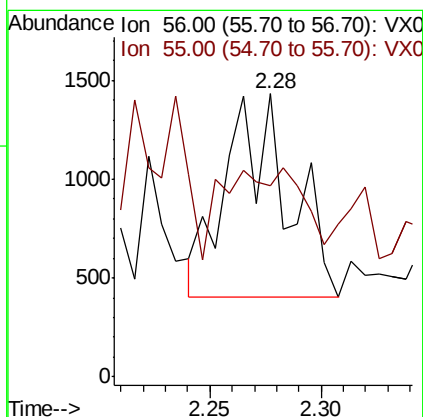
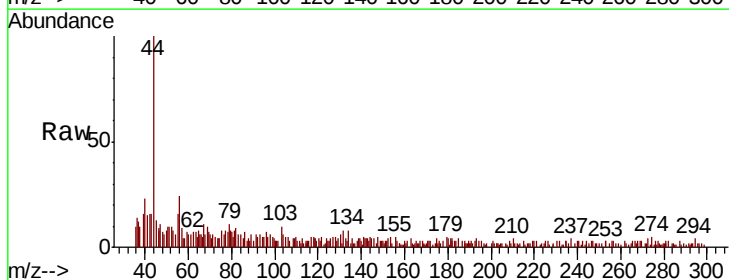
Instrument :
MSVOA_X
ClientSampled :
CBH-594

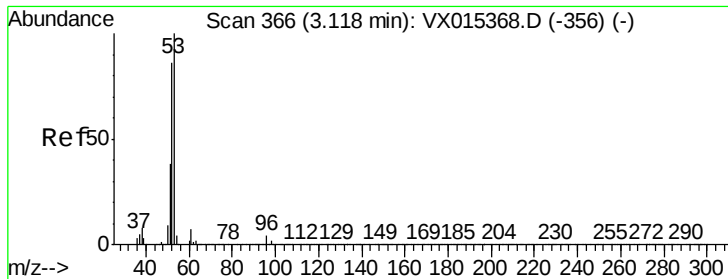
Tot Ion: 59 Resp: 1792
Ion Ratio Lower Upper
59 100
57 16.4 8.1 12.1#



#13
Acrolein
Concen: 0.970 ug/l
RT: 2.28 min Scan# 228
Delta R.T. 0.01 min
Lab File: VX015565.D
Acq: 08 Apr 2020 13:46

Tgt Ion: 56 Resp: 1996
Ion Ratio Lower Upper
56 100
55 57.7 57.0 85.4





#15

Acrylonitrile

Concen: 0.477 ug/l

RT: 3.13 min Scan# 368

Delta R.T. 0.01 min

Lab File: VX015565.D

Acq: 08 Apr 2020 13:46

Instrument :

MSVOA_X

ClientSampled :

CBH-594

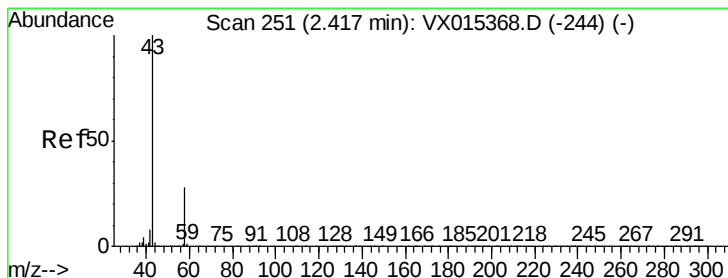
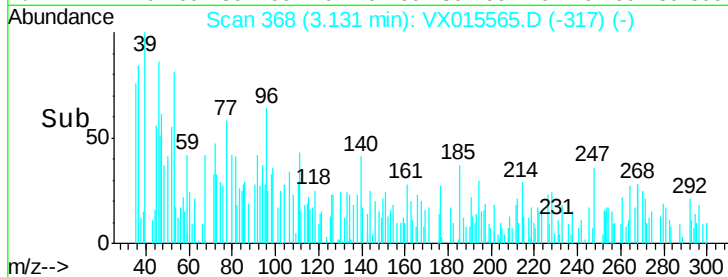
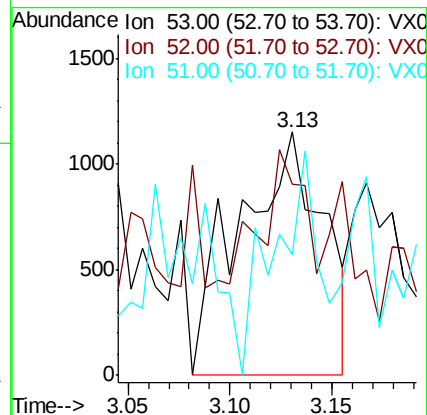
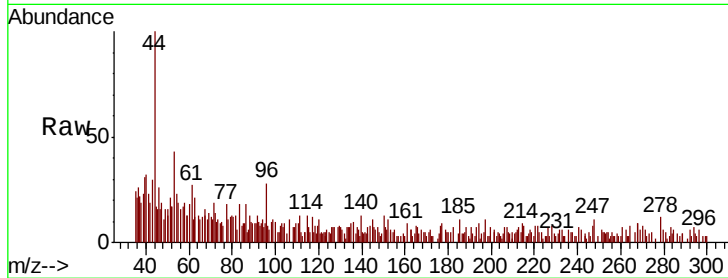
Tot Ion: 53 Resp: 3284

Ion Ratio Lower Upper

53 100

52 26.0 66.8 100.2#

51 48.5 29.5 44.3#



#16

Acetone

Concen: 3.942 ug/l

RT: 2.42 min Scan# 251

Delta R.T. -0.00 min

Lab File: VX015565.D

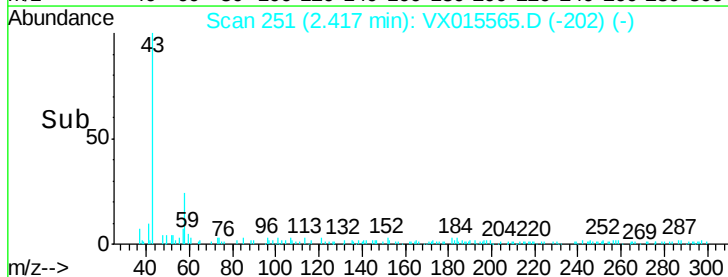
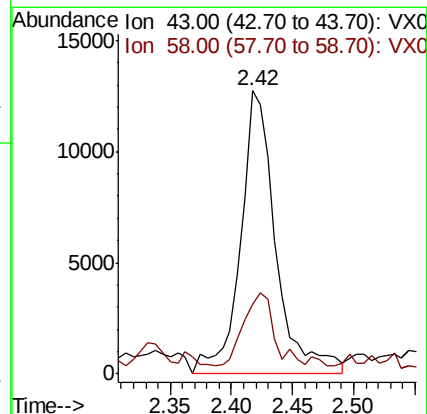
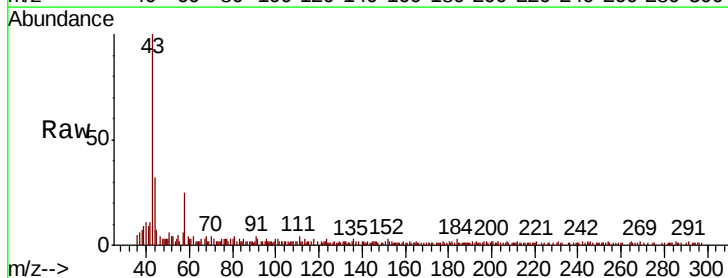
Acq: 08 Apr 2020 13:46

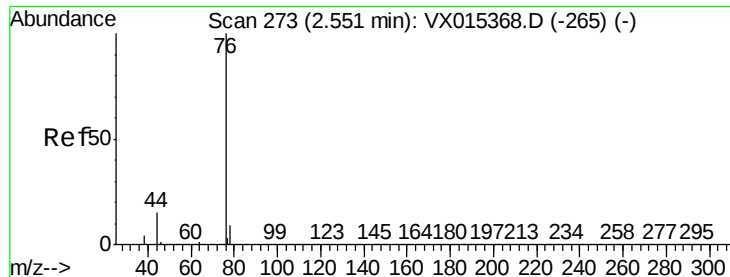
Tgt Ion: 43 Resp: 25555

Ion Ratio Lower Upper

43 100

58 20.8 22.1 33.1#

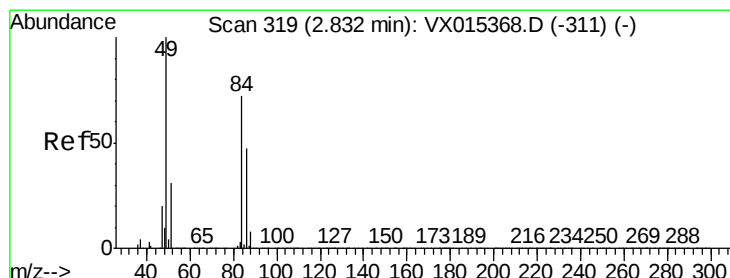
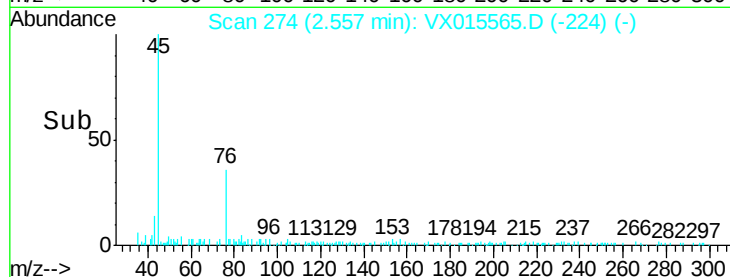
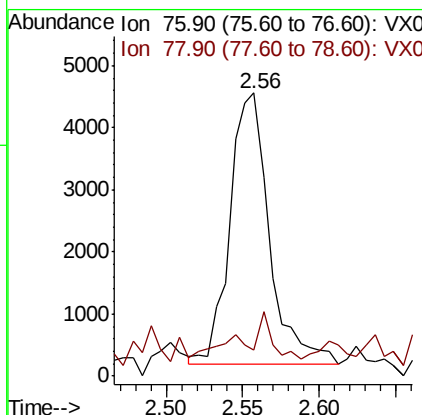
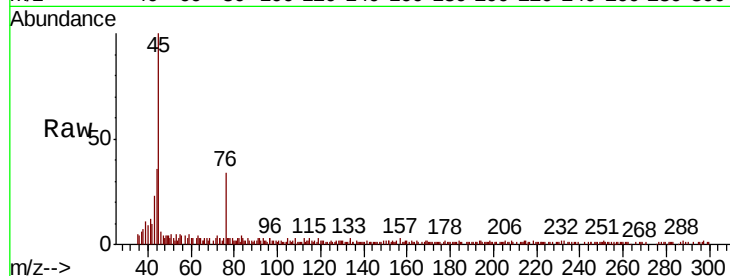




#17
Carbon Disulfide
Concen: 0.253 ug/l
RT: 2.56 min Scan# 274
Delta R.T. 0.01 min
Lab File: VX015565.D
Acq: 08 Apr 2020 13:46

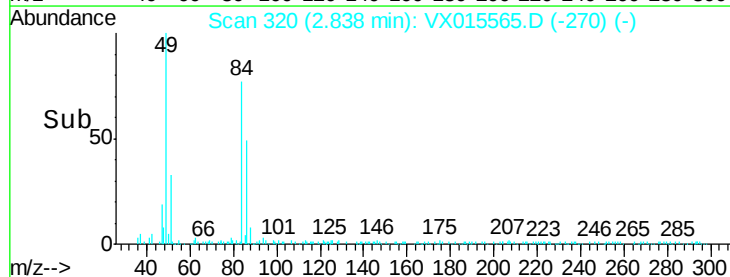
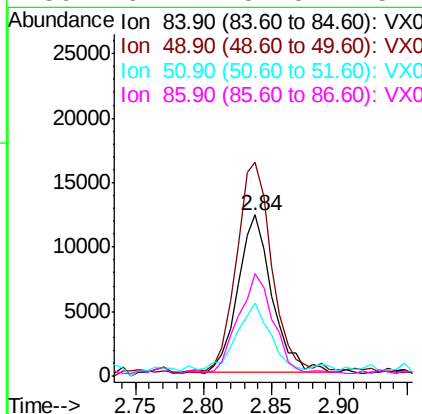
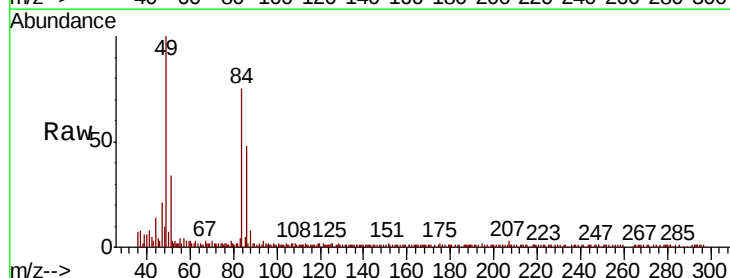
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ClientSampleId :
CBH-594

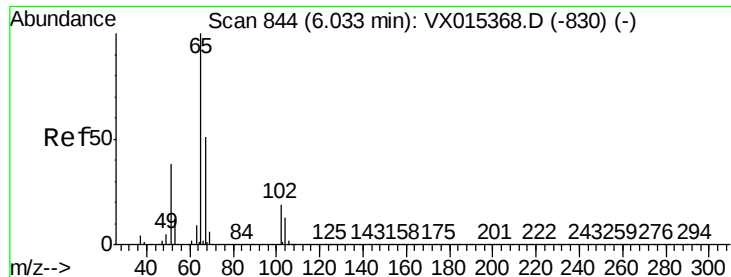
Tot Ion: 76 Resp: 7802
Ion Ratio Lower Upper
76 100
78 2.8 7.1 10.7#



#20
Methylene Chloride
Concen: 1.780 ug/l
RT: 2.84 min Scan# 320
Delta R.T. 0.01 min
Lab File: VX015565.D
Acq: 08 Apr 2020 13:46

Tgt Ion: 84 Resp: 21549
Ion Ratio Lower Upper
84 100
49 131.3 111.3 166.9
51 43.1 34.0 51.0
86 62.4 52.5 78.7





#33

1,2-Dichloroethane-d4

Concen: 46.609 ug/l

RT: 6.03 min Scan# 844

Delta R.T. -0.00 min

Lab File: VX015565.D

Acq: 08 Apr 2020 13:46

Instrument :

MSVOA_X

ClientSampleId :

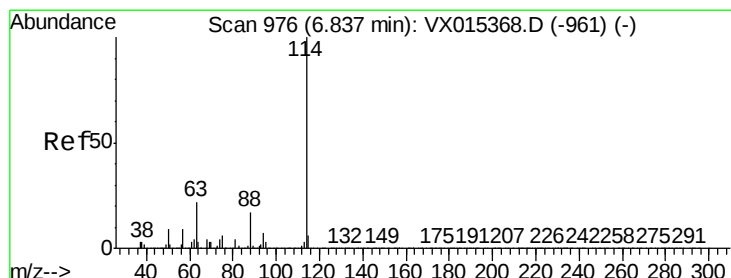
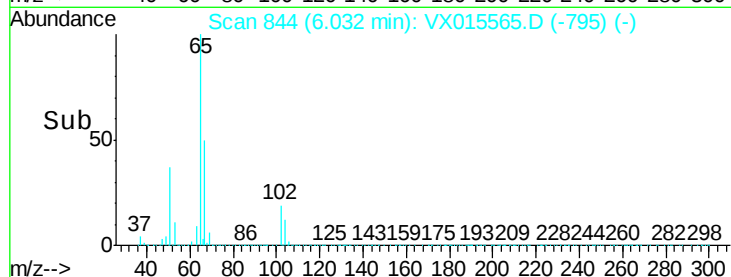
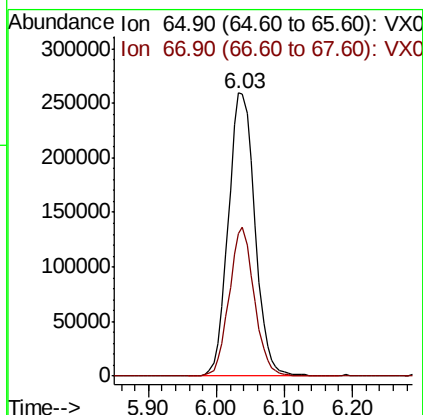
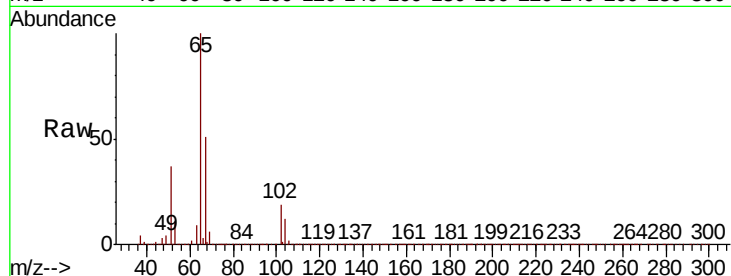
CBH-594

Tot Ion: 65 Resp: 703290

Ion Ratio Lower Upper

65 100

67 49.3 0.0 102.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 976

Delta R.T. -0.00 min

Lab File: VX015565.D

Acq: 08 Apr 2020 13:46

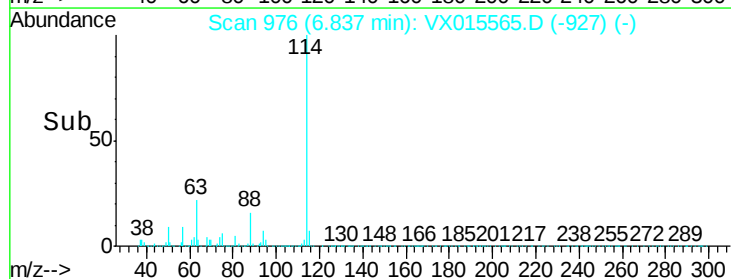
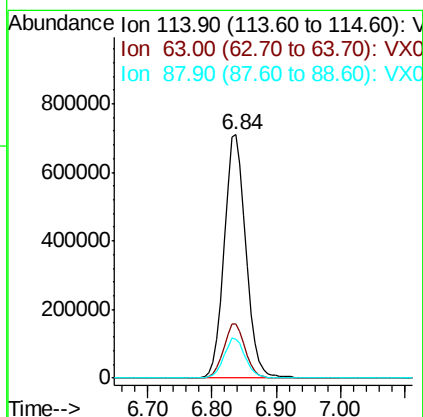
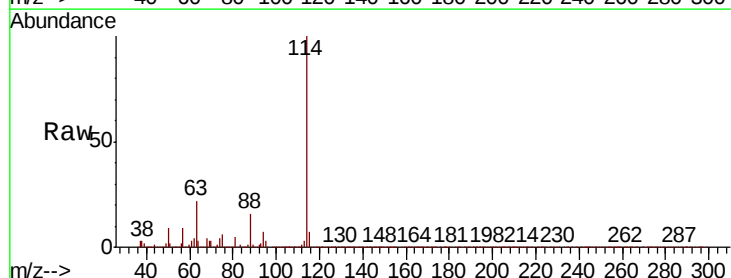
Tgt Ion: 114 Resp: 1692200

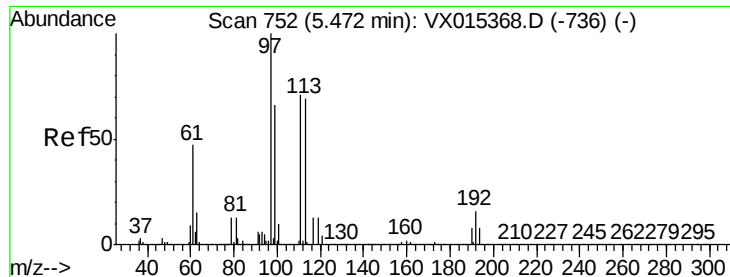
Ion Ratio Lower Upper

114 100

63 22.1 0.0 44.2

88 16.1 0.0 33.8

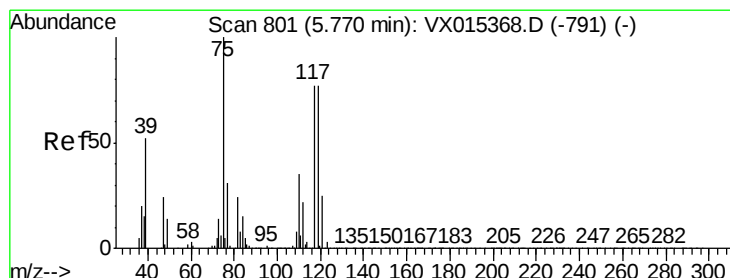
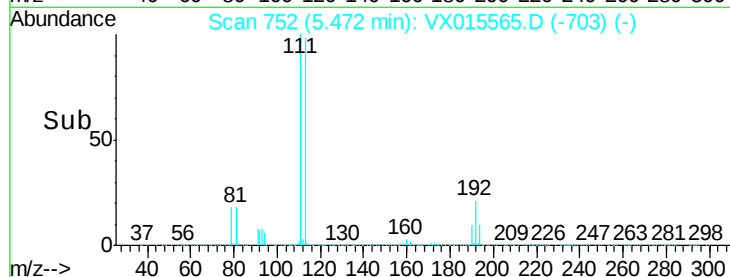
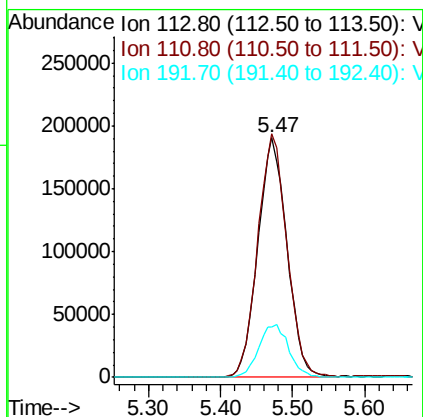
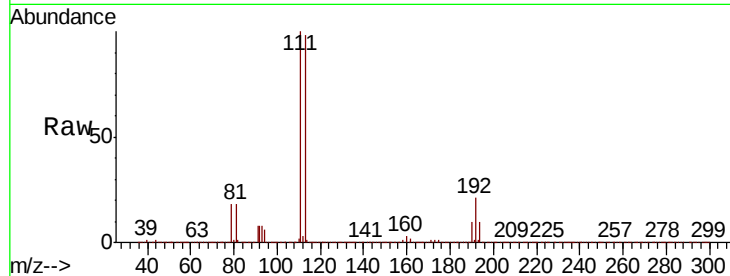




#35
Dibromofluoromethane
Concen: 49.450 ug/l
RT: 5.47 min Scan# 752
Delta R.T. -0.00 min
Lab File: VX015565.D
Acq: 08 Apr 2020 13:46

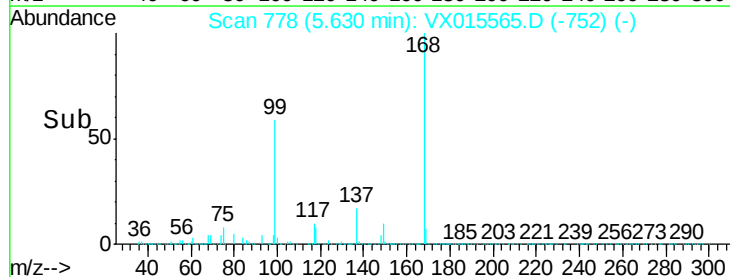
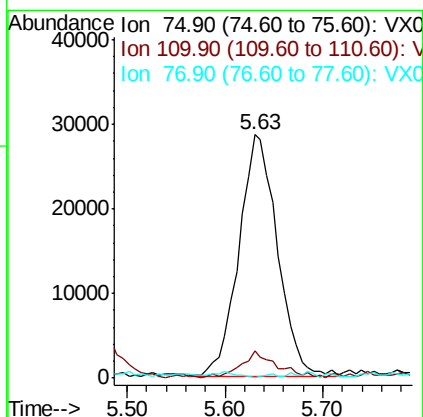
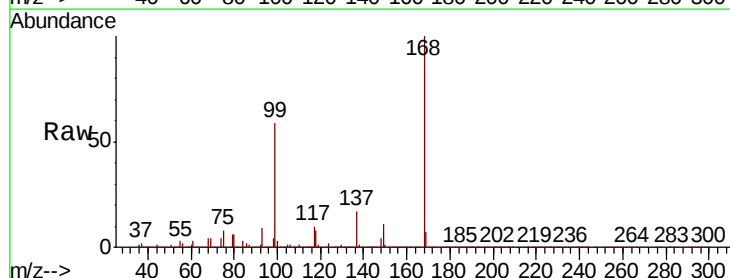
Instrument :
MSVOA_X
ClientSampled :
CBH-594

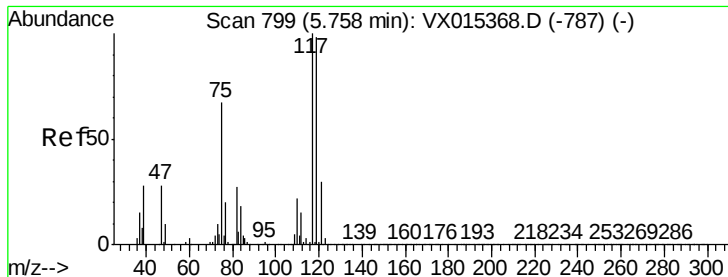
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.5	122.3
192	22.6	17.8	26.6



#36
1,1-Dichloropropene
Concen: 5.012 ug/l
RT: 5.63 min Scan# 778
Delta R.T. -0.14 min
Lab File: VX015565.D
Acq: 08 Apr 2020 13:46

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.7	17.1	51.3#
77	0.6	24.6	36.8#

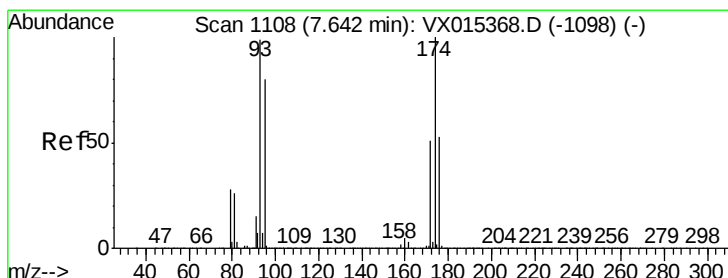
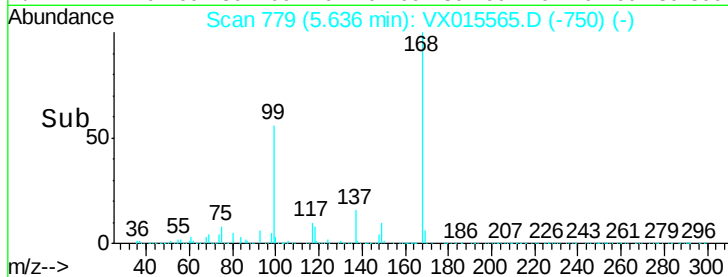
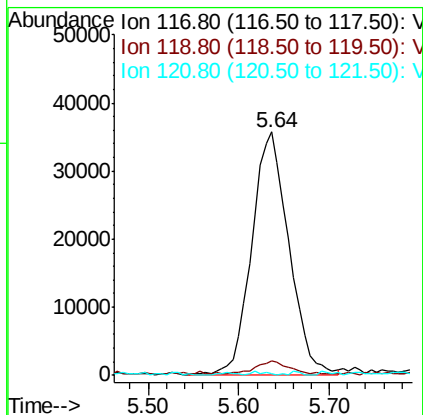
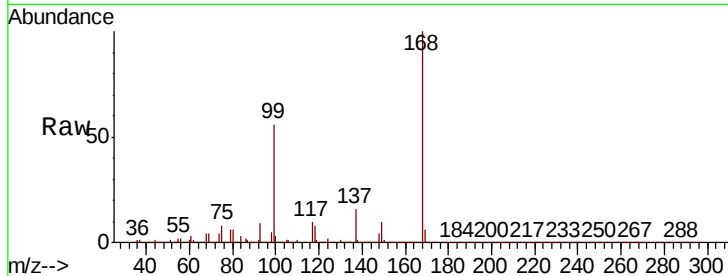




#38
Carbon Tetrachloride
Concen: 5.978 ug/l
RT: 5.64 min Scan# 779
Delta R.T. -0.12 min
Lab File: VX015565.D
Acq: 08 Apr 2020 13:46

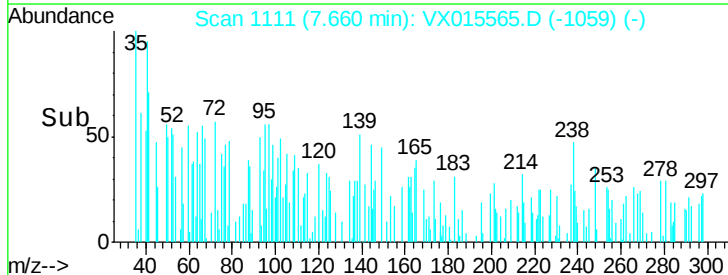
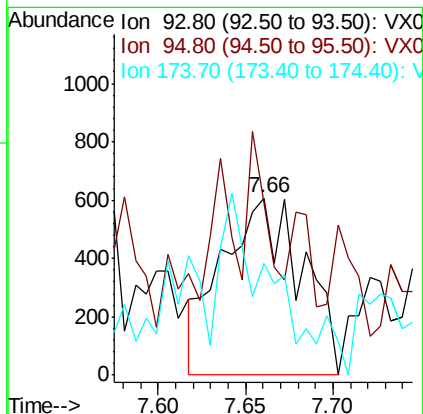
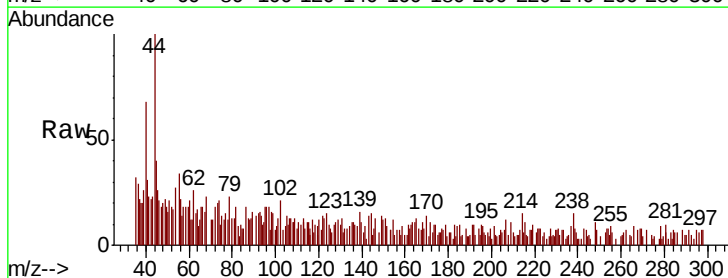
Instrument :
MSVOA_X
ClientSampleId :
CBH-594

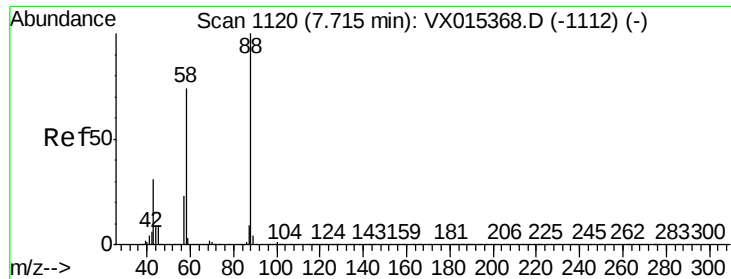
Tot Ion	Ratio	Lower	Upper
117	100		
119	5.2	78.0	117.0#
121	0.0	23.8	35.8#



#46
Dibromomethane
Concen: 0.236 ug/l
RT: 7.66 min Scan# 1111
Delta R.T. 0.02 min
Lab File: VX015565.D
Acq: 08 Apr 2020 13:46

Tgt Ion	Ratio	Lower	Upper
93	100		
95	20.8	65.8	98.8#
174	0.0	86.2	129.2#

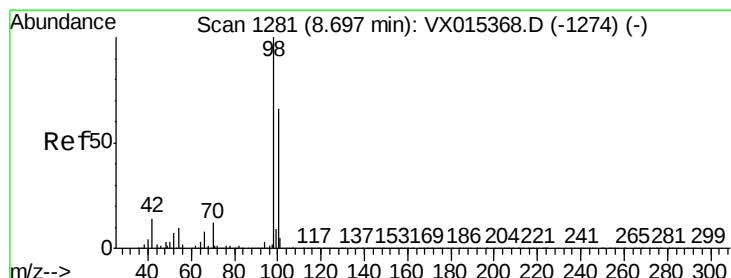
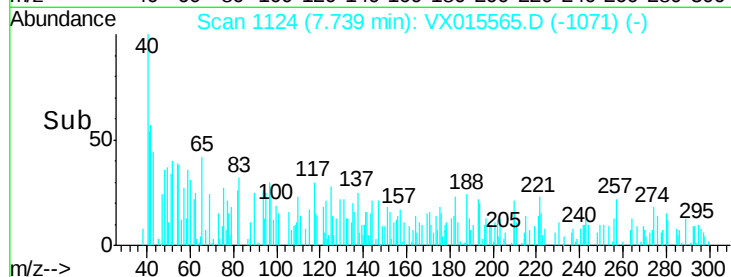
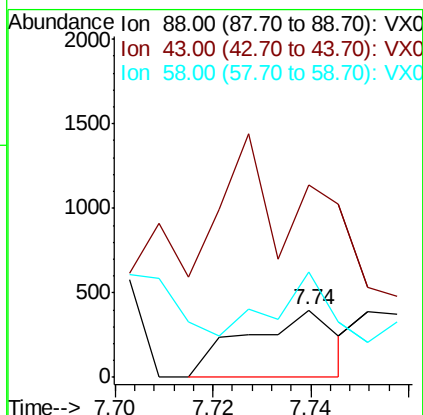
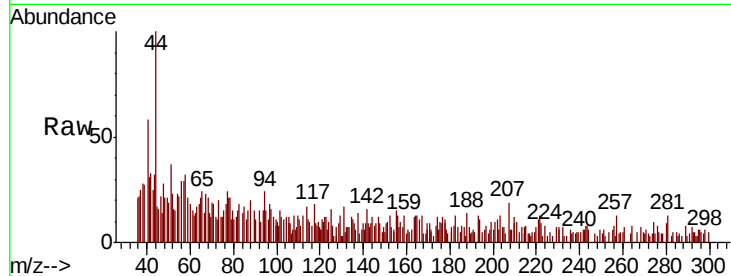




#49
1,4-Dioxane
Concen: 1.585 ug/l
RT: 7.74 min Scan# 1124
Delta R.T. 0.02 min
Lab File: VX015565.D
Acq: 08 Apr 2020 13:46

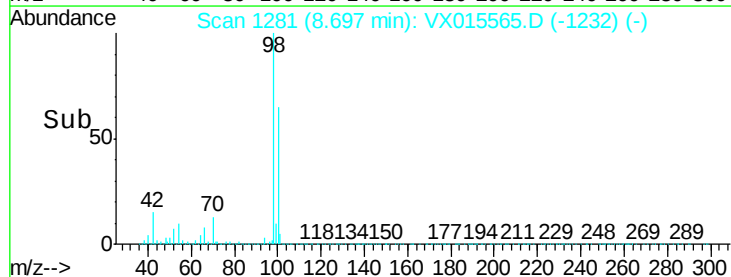
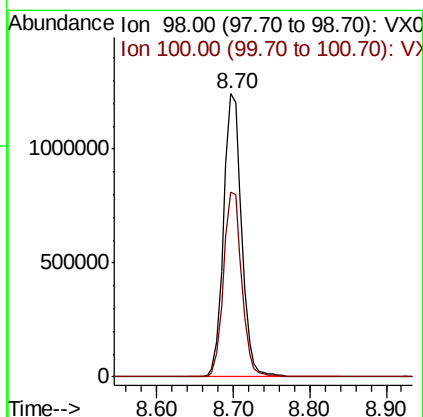
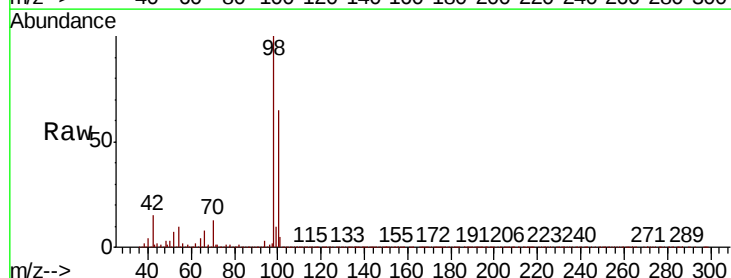
Instrument :
MSVOA_X
ClientSampled :
CBH-594

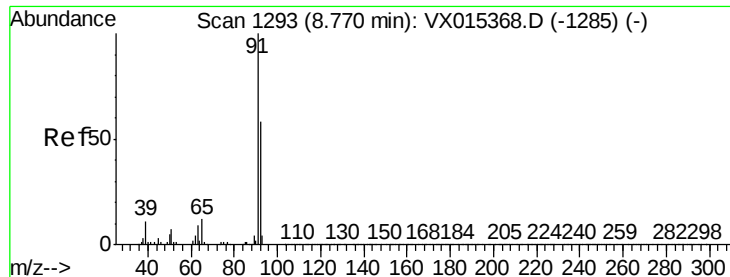
Tot Ion: 88 Resp: 506
Ion Ratio Lower Upper
88 100
43 434.8 30.1 45.1#
58 86.2 60.6 90.8



#50
Toluene-d8
Concen: 50.930 ug/l
RT: 8.70 min Scan# 1281
Delta R.T. -0.00 min
Lab File: VX015565.D
Acq: 08 Apr 2020 13:46

Tgt Ion: 98 Resp: 2028300
Ion Ratio Lower Upper
98 100
100 66.0 53.5 80.3





#52

Toluene

Concen: 0.459 ug/l

RT: 8.77 min Scan# 1293

Delta R.T. -0.00 min

Lab File: VX015565.D

Acq: 08 Apr 2020 13:46

Instrument :

MSVOA_X

ClientSampleId :

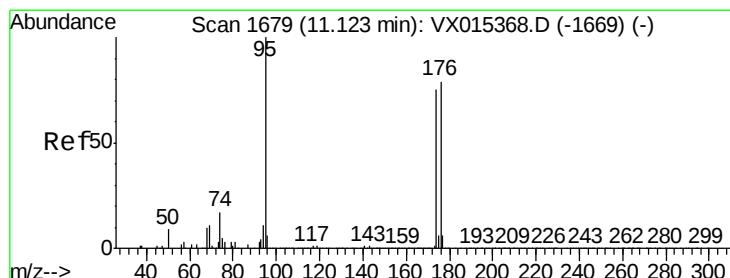
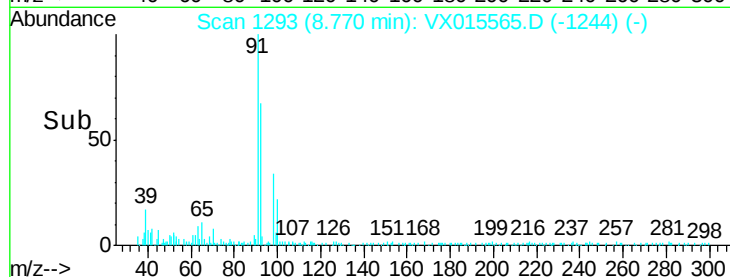
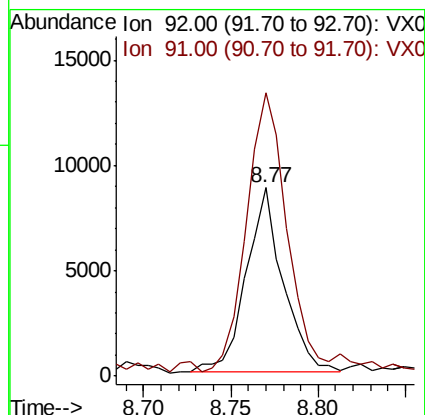
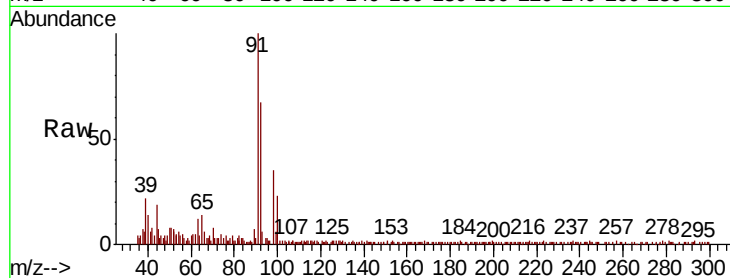
CBH-594

Tot Ion: 92 Resp: 12918

Ion Ratio Lower Upper

92 100

91 163.4 136.6 205.0



#62

4-Bromofluorobenzene

Concen: 54.573 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.00 min

Lab File: VX015565.D

Acq: 08 Apr 2020 13:46

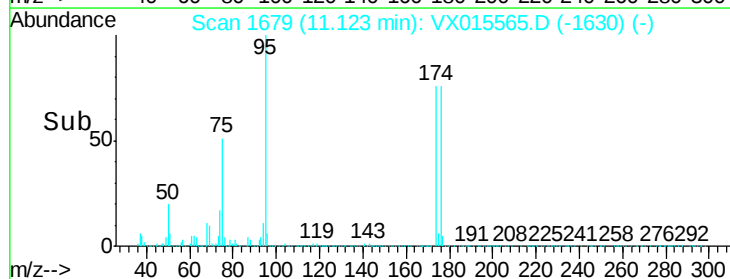
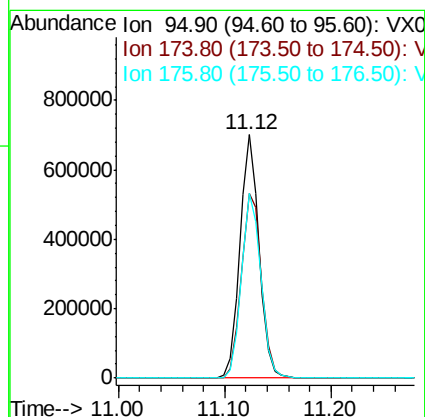
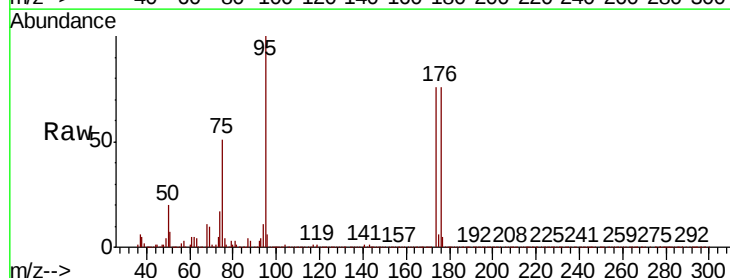
Tgt Ion: 95 Resp: 883265

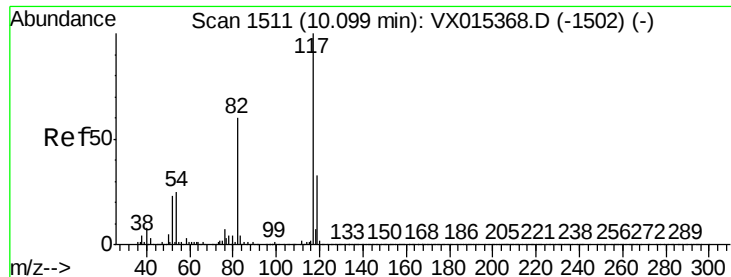
Ion Ratio Lower Upper

95 100

174 80.4 0.0 158.6

176 77.6 0.0 159.0

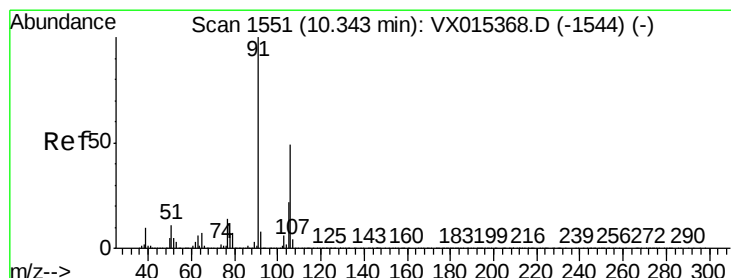
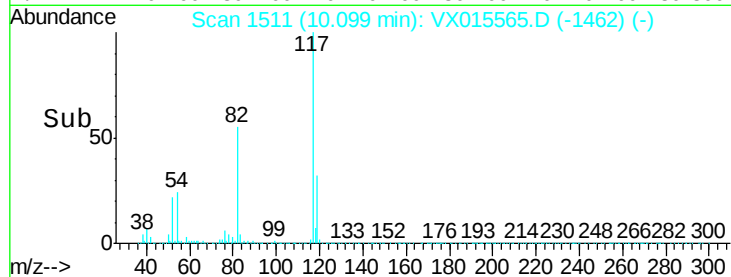
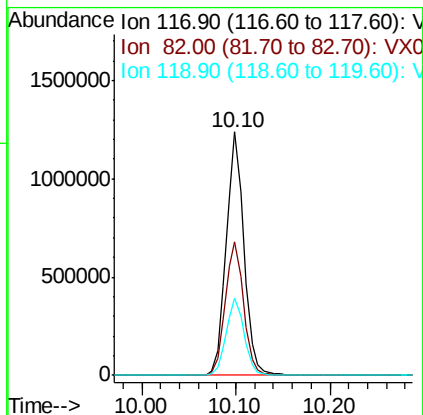
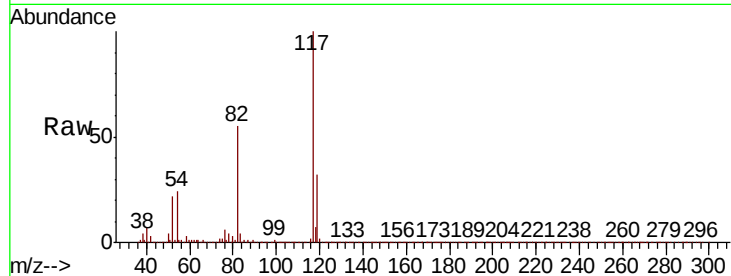




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1511
Delta R.T. -0.00 min
Lab File: VX015565.D
Acq: 08 Apr 2020 13:46

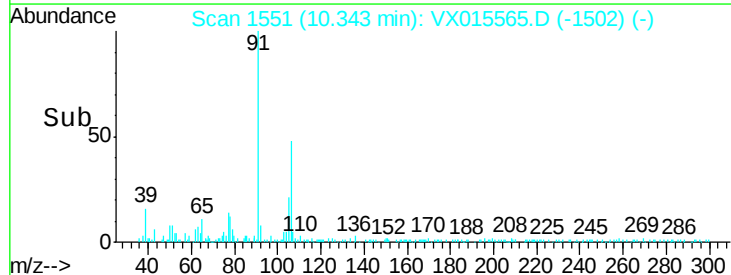
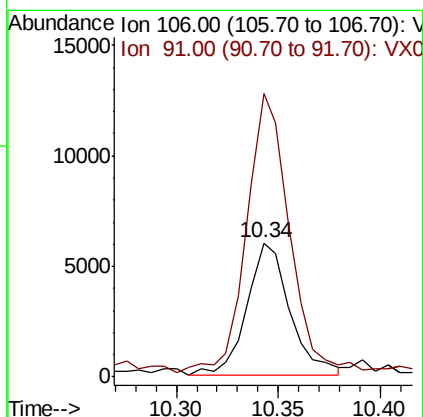
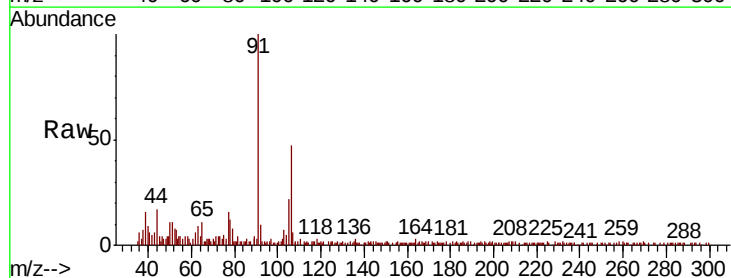
Instrument :
MSVOA_X
ClientSampleId :
CBH-594

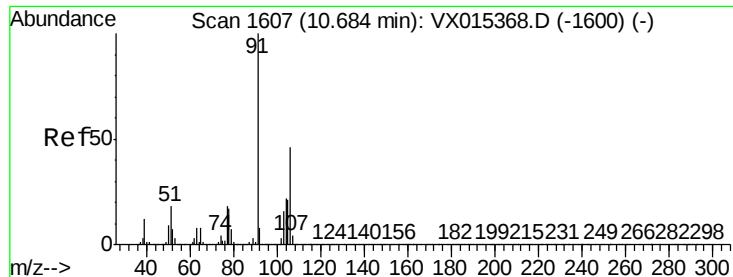
Tot Ion:117 Resp: 1618489
Ion Ratio Lower Upper
117 100
82 54.7 47.8 71.8
119 31.5 26.8 40.2



#68
m/p-Xylenes
Concen: 0.412 ug/l
RT: 10.34 min Scan# 1551
Delta R.T. -0.00 min
Lab File: VX015565.D
Acq: 08 Apr 2020 13:46

Tgt Ion:106 Resp: 8780
Ion Ratio Lower Upper
106 100
91 209.2 163.4 245.0

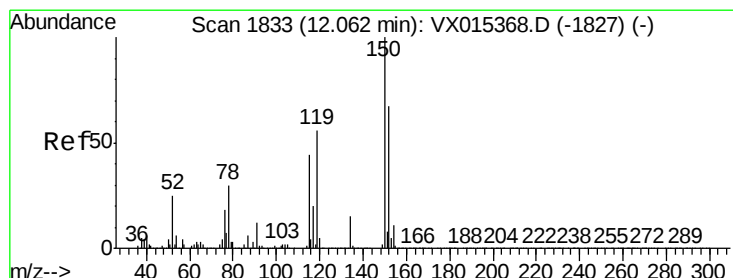
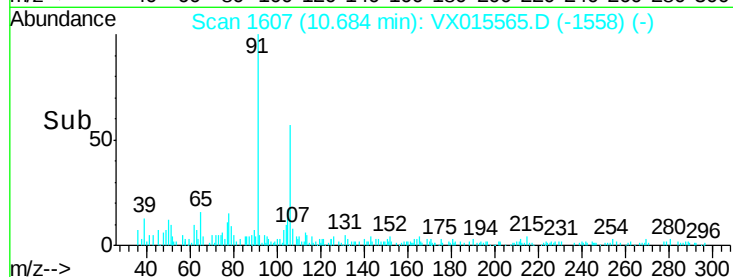
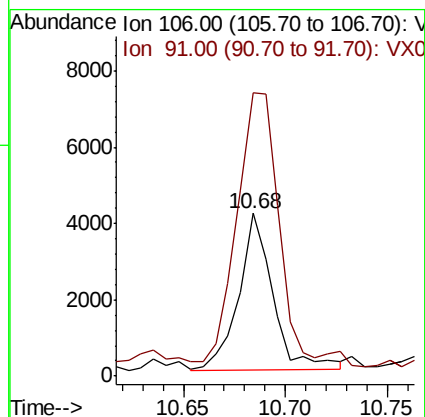
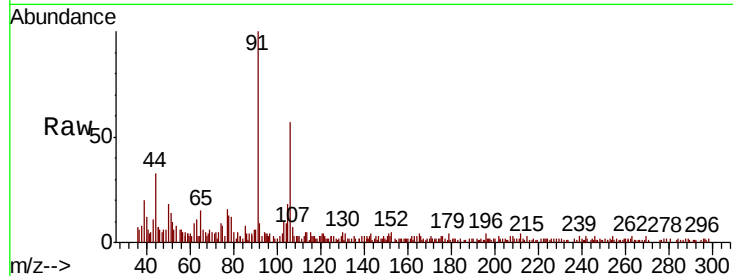




#69
o-Xylene
Concen: 0.228 ug/l
RT: 10.68 min Scan# 1607
Delta R.T. -0.00 min
Lab File: VX015565.D
Acq: 08 Apr 2020 13:46

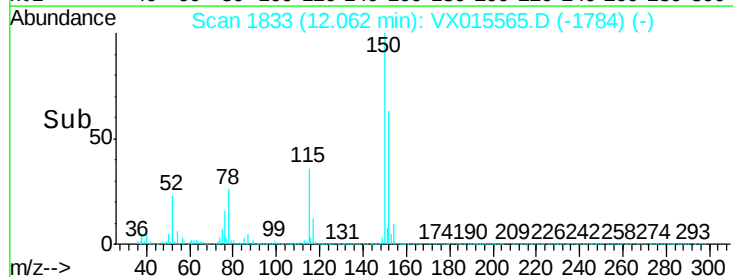
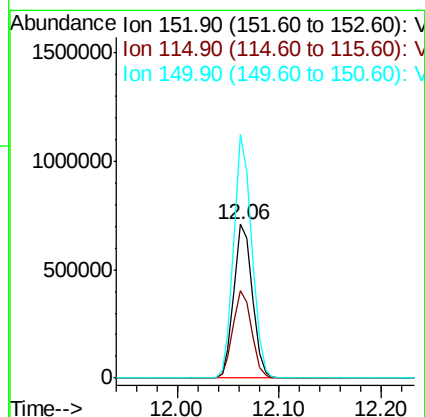
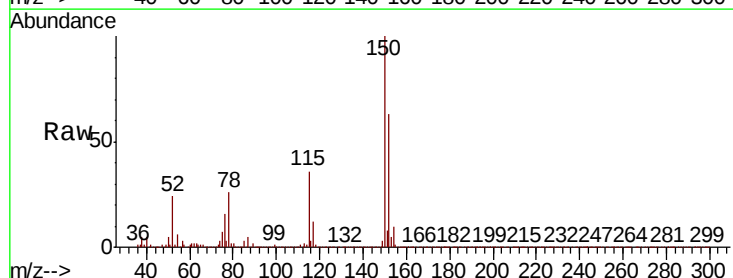
Instrument :
MSVOA_X
ClientSampleId :
CBH-594

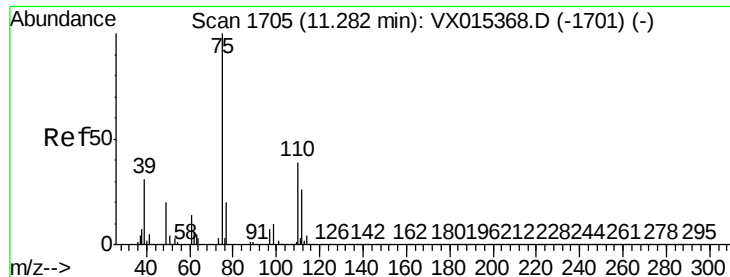
Tot Ion:106 Resp: 4796
Ion Ratio Lower Upper
106 100
91 218.5 107.1 321.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1833
Delta R.T. -0.00 min
Lab File: VX015565.D
Acq: 08 Apr 2020 13:46

Tgt Ion:152 Resp: 884246
Ion Ratio Lower Upper
152 100
115 57.2 39.0 116.9
150 153.9 0.0 340.8





#76

1,2,3-Trichloropropane

Concen: 24.781 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.16 min

Lab File: VX015565.D

Acq: 08 Apr 2020 13:46

Instrument :

MSVOA_X

ClientSampleId :

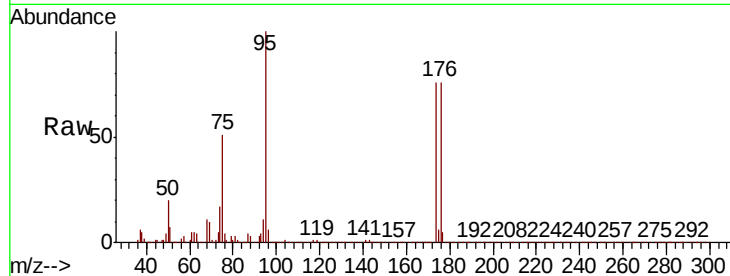
CBH-594

Tot Ion: 75 Resp: 450608

Ion Ratio Lower Upper

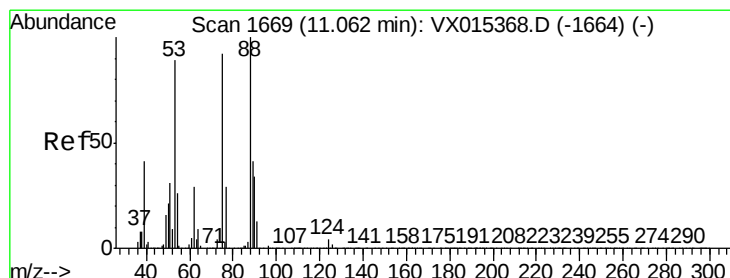
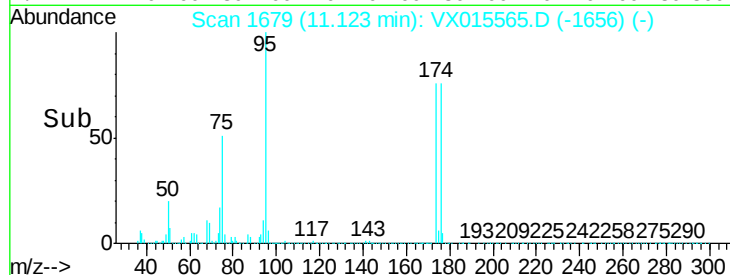
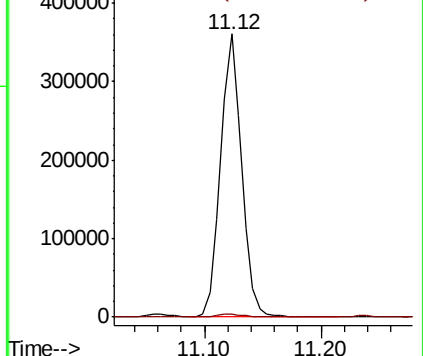
75 100

77 1.2 21.2 63.6#



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: 59.460 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.06 min

Lab File: VX015565.D

Acq: 08 Apr 2020 13:46

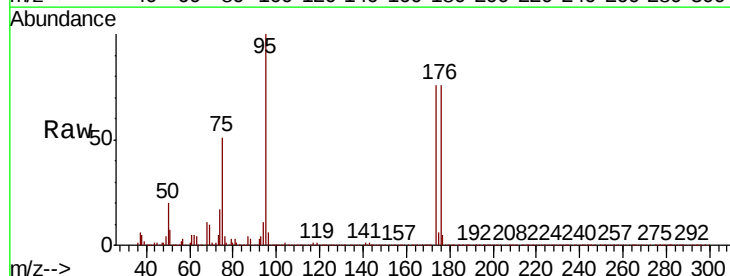
Tgt Ion: 75 Resp: 450608

Ion Ratio Lower Upper

75 100

53 0.0 80.1 120.1#

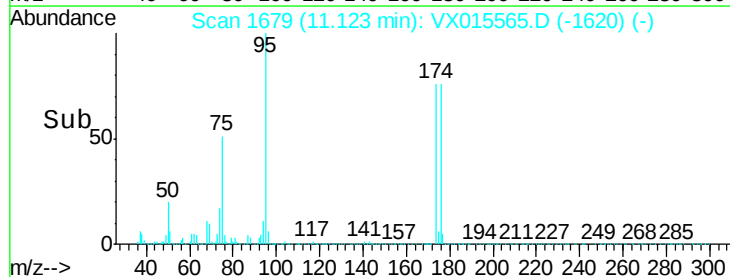
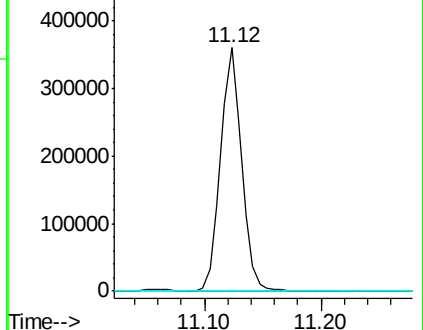
89 0.1 36.1 54.1#

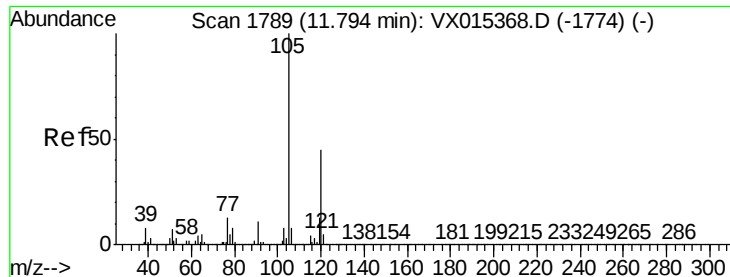


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#84

1,2,4-Trimethylbenzene

Concen: 0.201 ug/l

RT: 11.79 min Scan# 1789

Delta R.T. -0.00 min

Lab File: VX015565.D

Acq: 08 Apr 2020 13:46

Instrument :

MSVOA_X

ClientSampled :

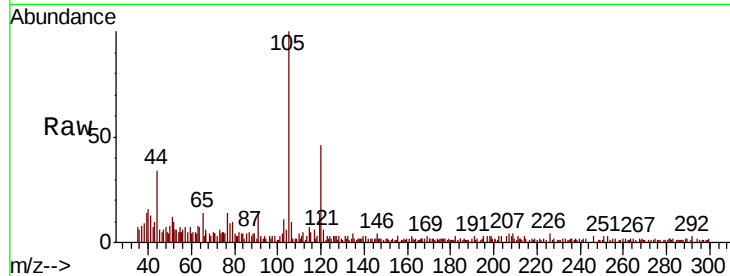
CBH-594

Tot Ion:105 Resp: 10128

Ion Ratio Lower Upper

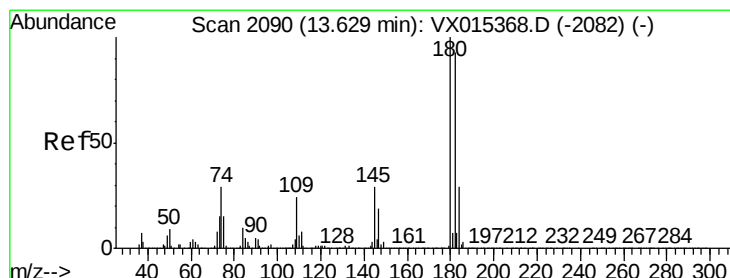
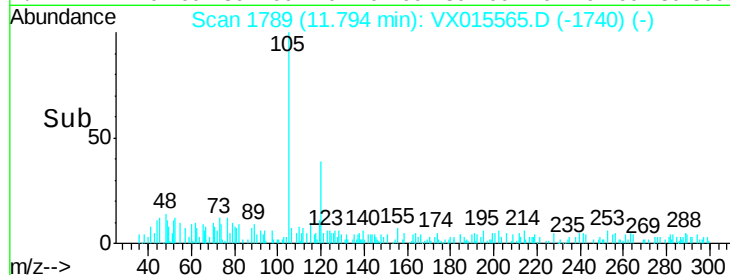
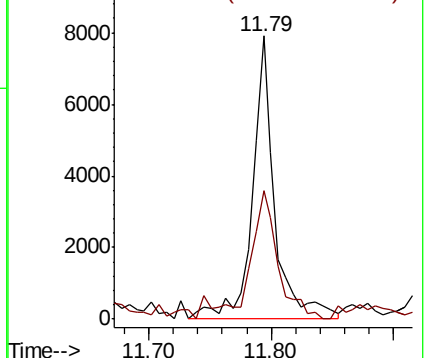
105 100

120 51.2 22.7 68.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#93

1,2,4-Trichlorobenzene

Concen: 0.283 ug/l

RT: 13.63 min Scan# 2090

Delta R.T. -0.00 min

Lab File: VX015565.D

Acq: 08 Apr 2020 13:46

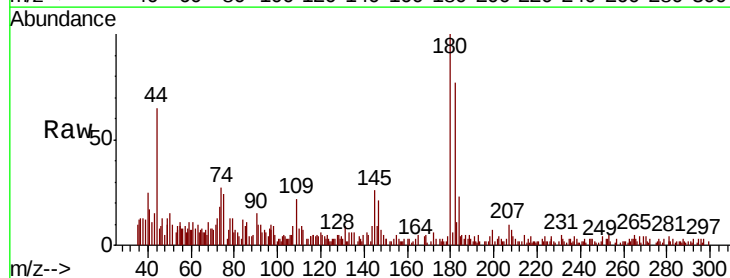
Tgt Ion:180 Resp: 6061

Ion Ratio Lower Upper

180 100

182 90.4 46.9 140.7

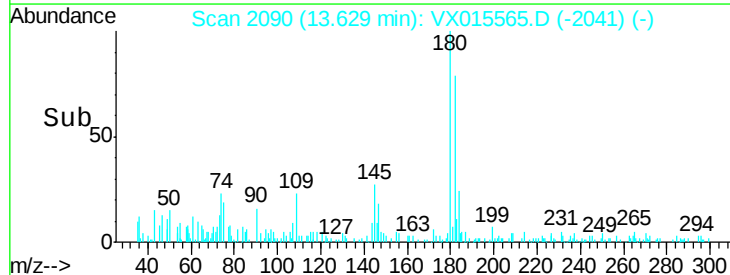
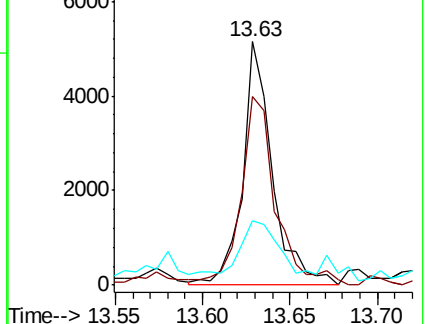
145 30.8 14.9 44.5

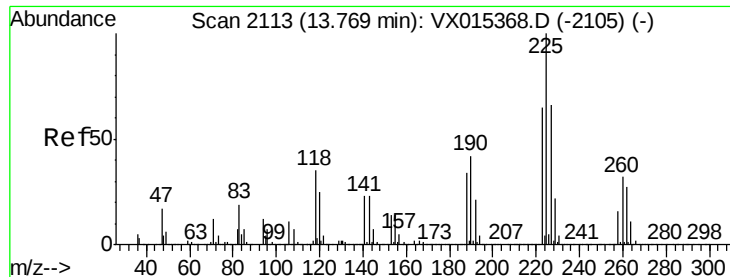


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 0.342 ug/l

RT: 13.77 min Scan# 2113

Delta R.T. -0.00 min

Lab File: VX015565.D

Acq: 08 Apr 2020 13:46

Instrument :

MSVOA_X

ClientSampleId :

CBH-594

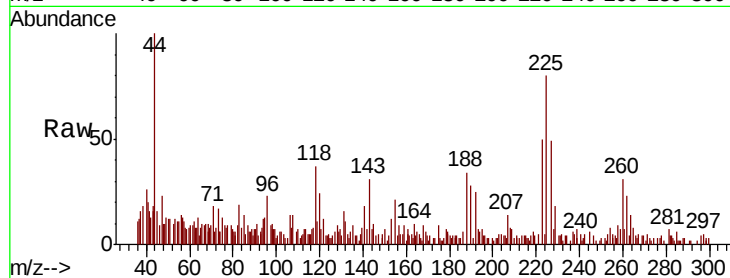
Tot Ion:225 Resp: 3490

Ion Ratio Lower Upper

225 100

223 79.5 31.9 95.7

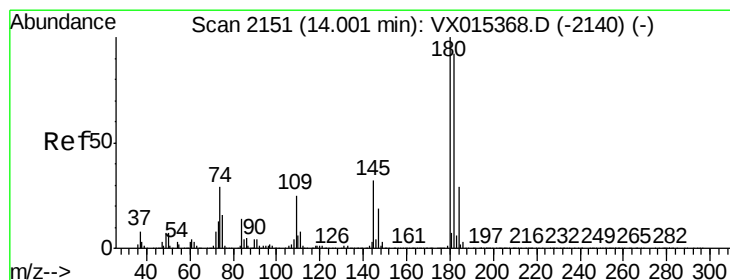
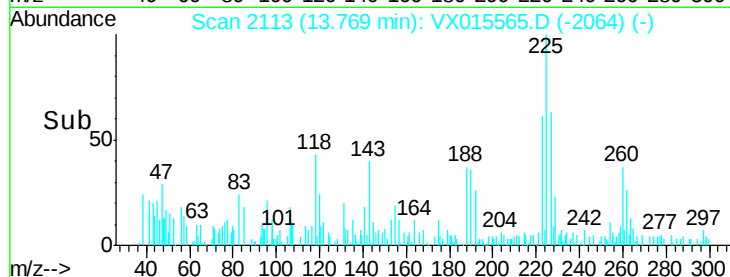
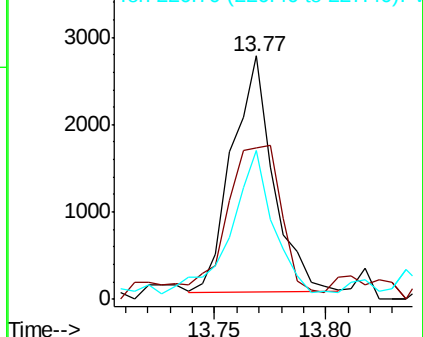
227 75.0 30.4 91.3



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#96

1,2,3-Trichlorobenzene

Concen: 0.303 ug/l

RT: 14.00 min Scan# 2151

Delta R.T. -0.00 min

Lab File: VX015565.D

Acq: 08 Apr 2020 13:46

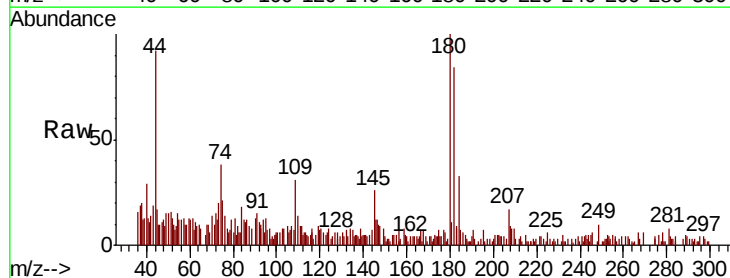
Tgt Ion:180 Resp: 6251

Ion Ratio Lower Upper

180 100

182 80.4 46.7 140.0

145 27.7 15.8 47.3



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

