

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031820\
 Data File : VN060598.D
 Acq On : 18 Mar 2020 17:34
 Operator : JC/MD
 Sample : L1917-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MH-G

Quant Time: Mar 19 05:01:14 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	201345	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	335123	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	310789	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	137626	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	131705	47.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.30%	
35) Dibromofluoromethane	7.57	113	98878	48.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.60%	
50) Toluene-d8	10.08	98	407559	49.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.48%	
62) 4-Bromofluorobenzene	12.40	95	150958	49.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.54%	

Target Compounds

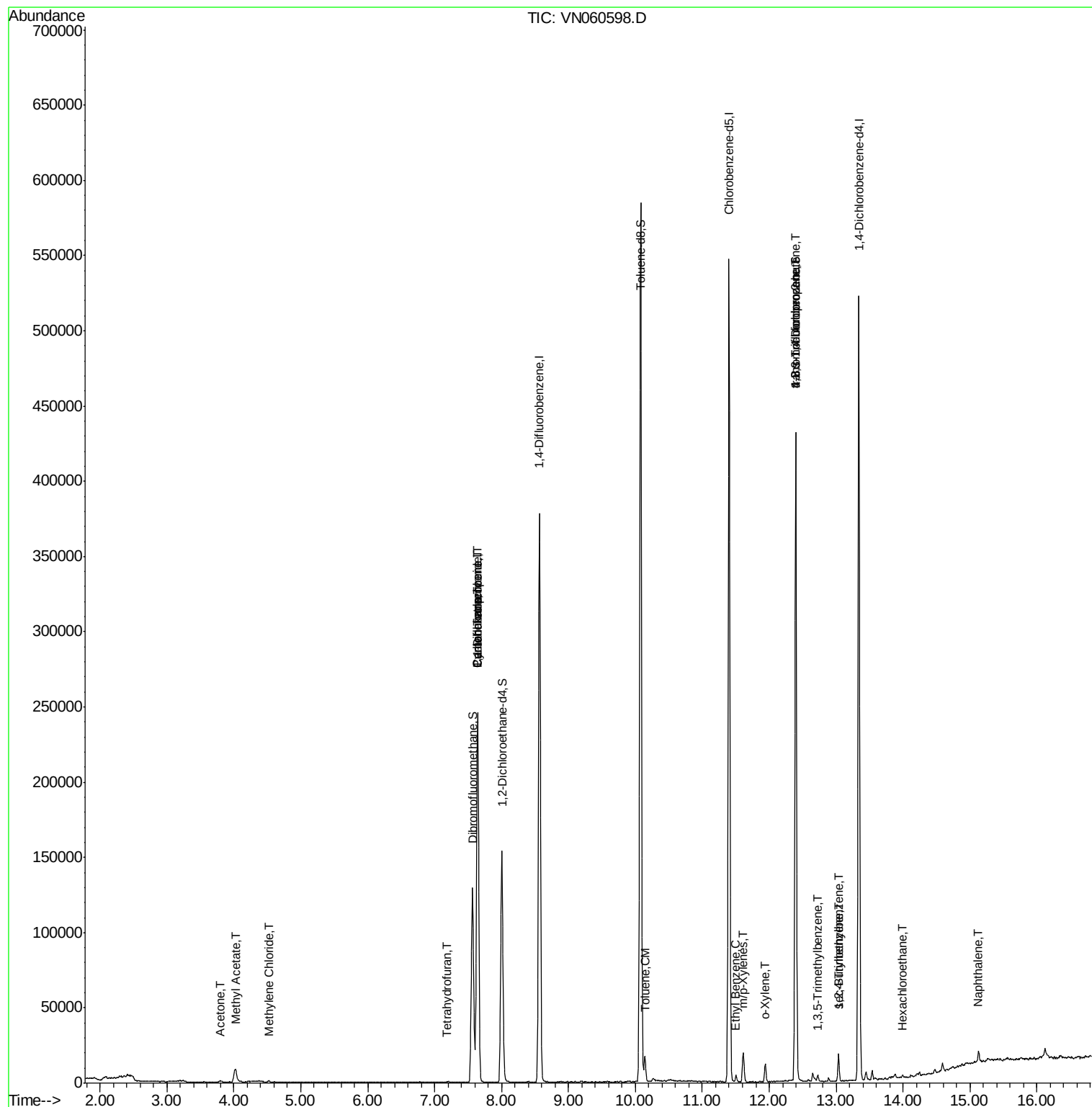
						Qvalue
16) Acetone	3.79	43	1039	1.061	ug/l #	43
18) Methyl Acetate	4.02	43	3508	1.273	ug/l #	54
20) Methylene Chloride	4.52	84	493	0.205	ug/l #	89
29) Tetrahydrofuran	7.18	42	249	0.222	ug/l #	35
31) Cyclohexane	7.64	56	4360	0.979	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	15983	4.925	ug/l #	50
38) Carbon Tetrachloride	7.64	117	19010	6.536	ug/l #	16
52) Toluene	10.14	92	7315	1.236	ug/l	96
67) Ethyl Benzene	11.50	91	3759	0.328	ug/l	95
68) m/p-Xylenes	11.61	106	6534	1.535	ug/l	94
69) o-Xylene	11.94	106	3380	0.832	ug/l	94
76) 1,2,3-Trichloropropane	12.40	75	76473	25.751	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	2699	0.308	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	76473	66.137	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.04	105	10838	1.250	ug/l	99
85) sec-Butylbenzene	13.04	105	10838	1.109	ug/l #	58
90) Hexachloroethane	13.99	117	1005	0.787	ug/l #	8
95) Naphthalene	15.13	128	6421	0.828	ug/l	99

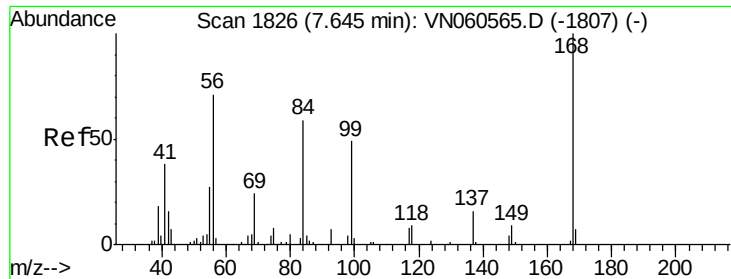
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN060598.D

Acq: 18 Mar 2020 17:34

Instrument :

MSVOA_N

ClientSampleId :

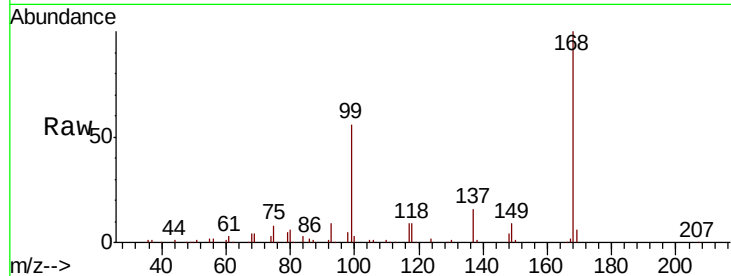
MH-G

Tot Ion:168 Resp: 201345

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) (-)

Ion 98.90 (98.60 to 99.60): VN060565.D (-1807) (-)

7.64

80000

60000

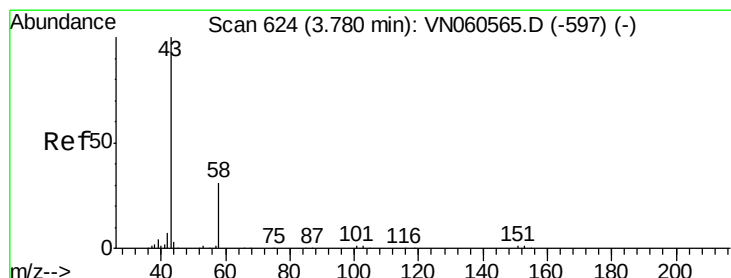
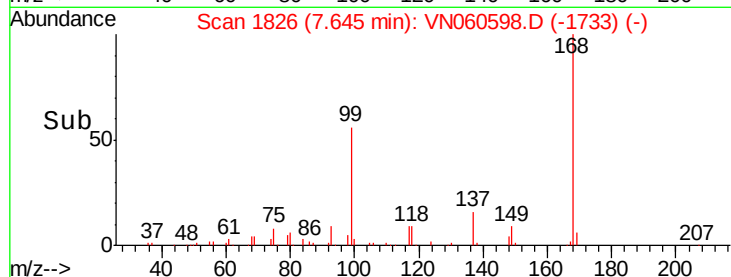
40000

20000

0

7.60 7.70

Time-->



#16

Acetone

Concen: 1.061 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN060598.D

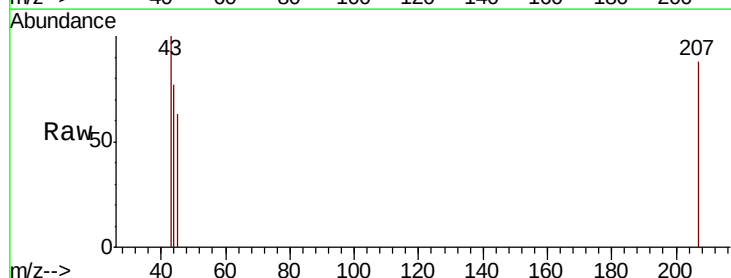
Acq: 18 Mar 2020 17:34

Tgt Ion: 43 Resp: 1039

Ion Ratio Lower Upper

43 100

58 0.0 25.1 37.7#



Abundance Ion 43.00 (42.70 to 43.70): VN060565.D (-597) (-)

Ion 58.00 (57.70 to 58.70): VN060565.D (-597) (-)

3.79

500

400

300

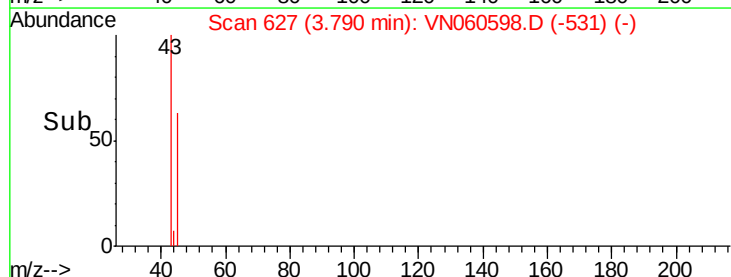
200

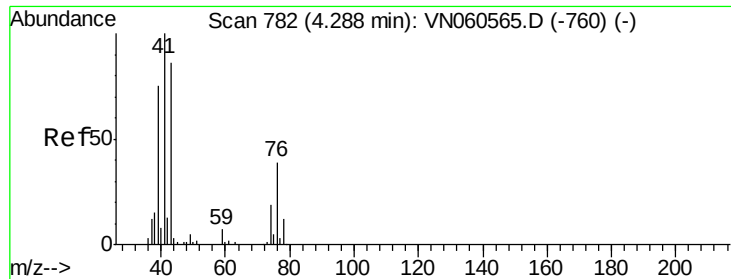
100

0

3.75 3.80

Time-->

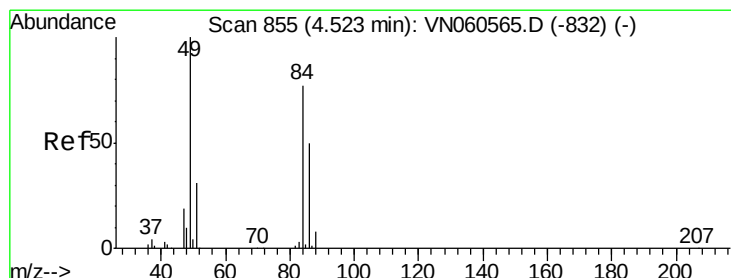
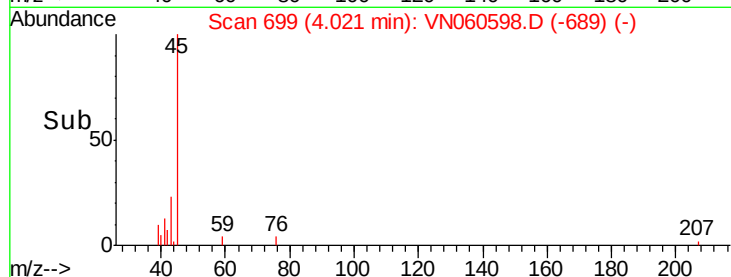
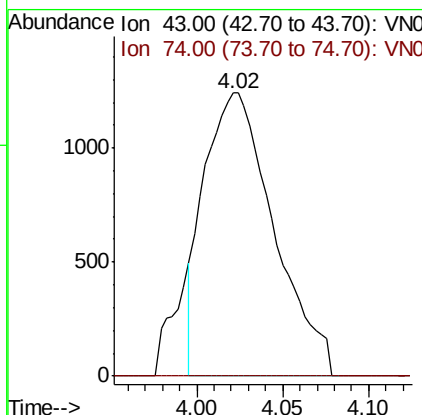
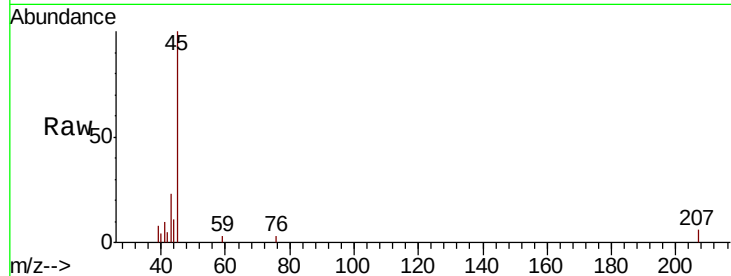




#18
Methyl Acetate
Concen: 1.273 ug/l
RT: 4.02 min Scan# 699
Delta R.T. -0.27 min
Lab File: VN060598.D
Acq: 18 Mar 2020 17:34

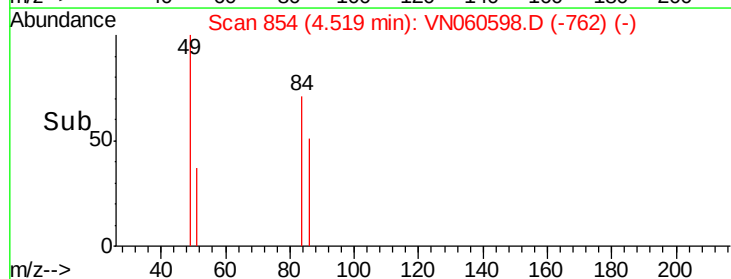
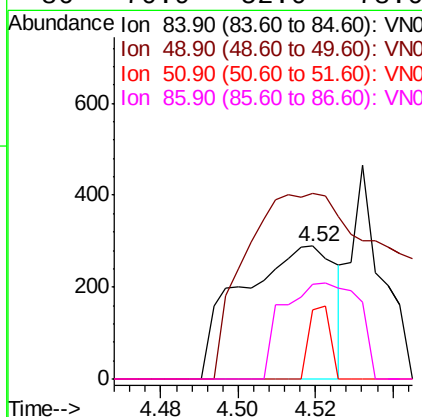
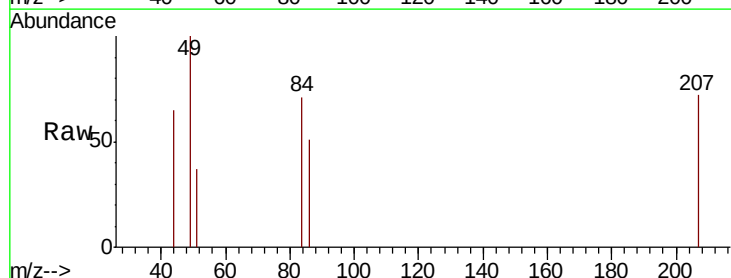
Instrument :
MSVOA_N
ClientSampled :
MH-G

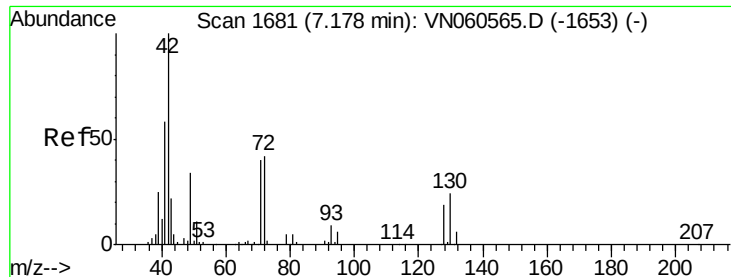
Tot Ion: 43 Resp: 3508
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 0.205 ug/l
RT: 4.52 min Scan# 854
Delta R.T. -0.00 min
Lab File: VN060598.D
Acq: 18 Mar 2020 17:34

Tgt Ion: 84 Resp: 493
Ion Ratio Lower Upper
84 100
49 140.1 103.3 154.9
51 51.9 31.6 47.4#
86 70.9 52.0 78.0

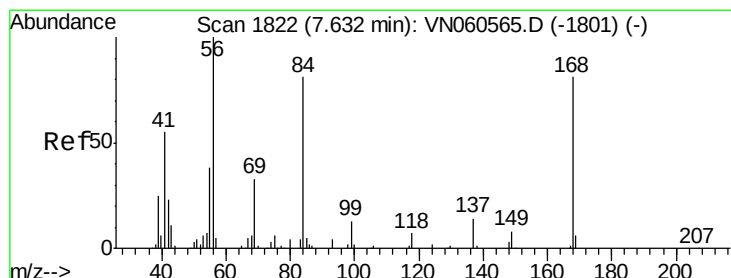
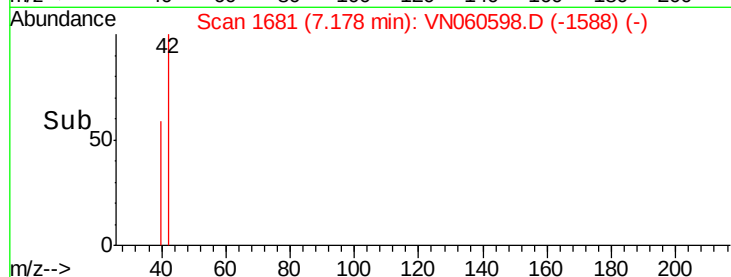
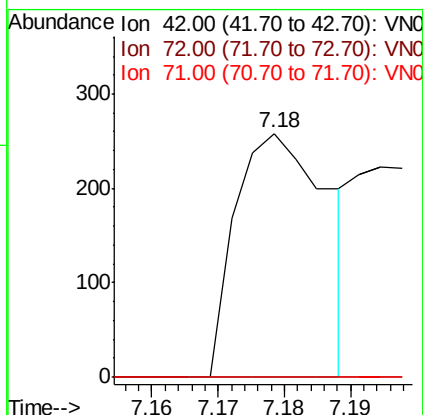
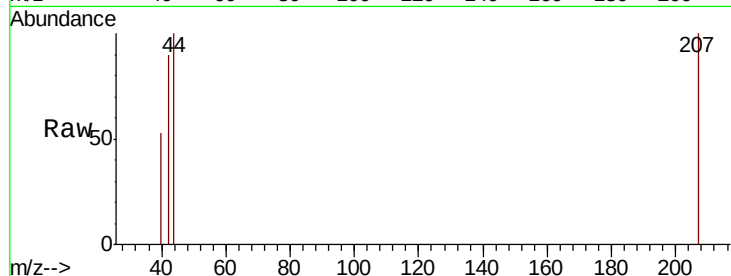




#29
Tetrahydrofuran
Concen: 0.222 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VN060598.D
Acq: 18 Mar 2020 17:34

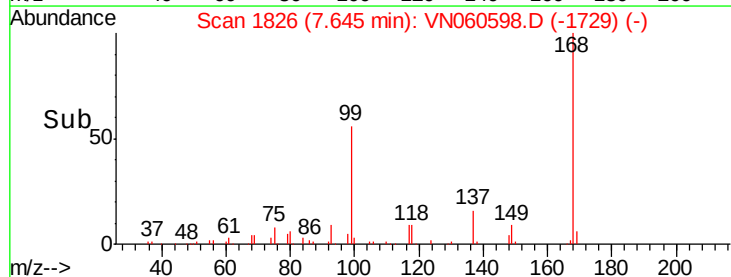
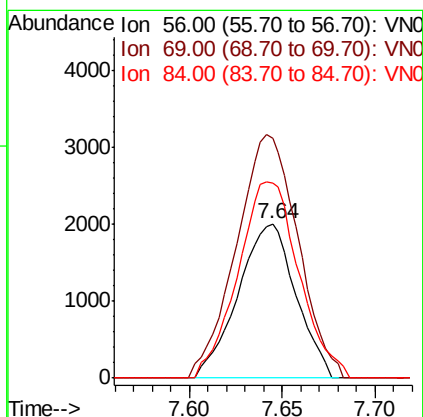
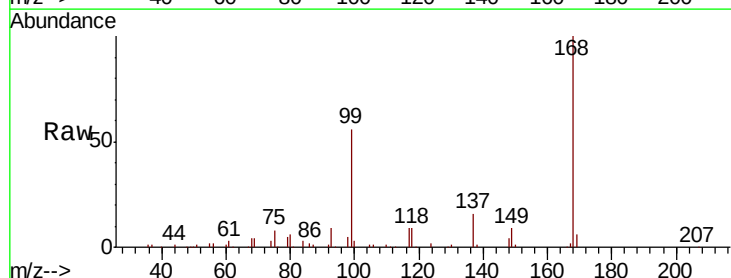
Instrument :
MSVOA_N
ClientSampleId :
MH-G

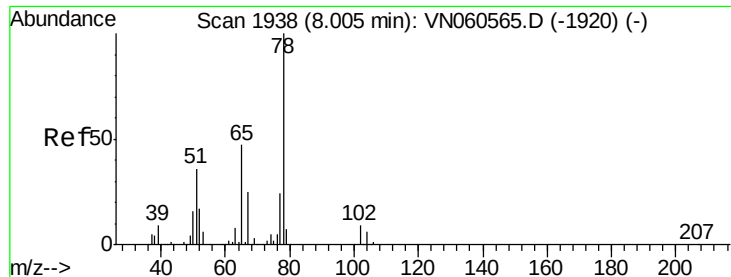
Tot Ion: 42 Resp: 249
Ion Ratio Lower Upper
42 100
72 0.0 33.2 49.8#
71 0.0 31.1 46.7#



#31
Cyclohexane
Concen: 0.979 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN060598.D
Acq: 18 Mar 2020 17:34

Tgt Ion: 56 Resp: 4360
Ion Ratio Lower Upper
56 100
69 155.0 26.6 40.0#
84 126.1 64.3 96.5#

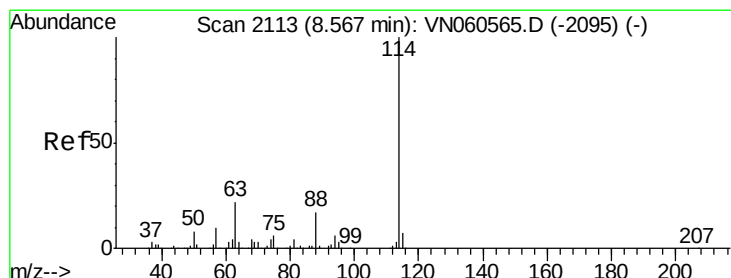
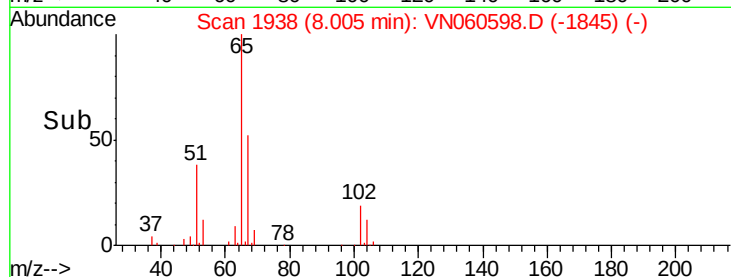
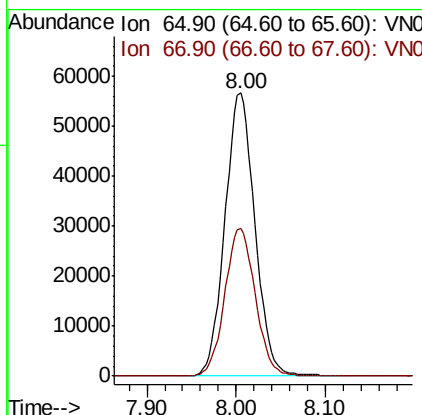
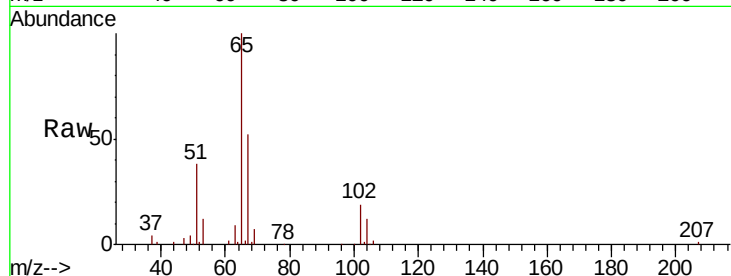




#33
 1,2-Dichloroethane-d4
 Concen: 47.650 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN060598.D
 Acq: 18 Mar 2020 17:34

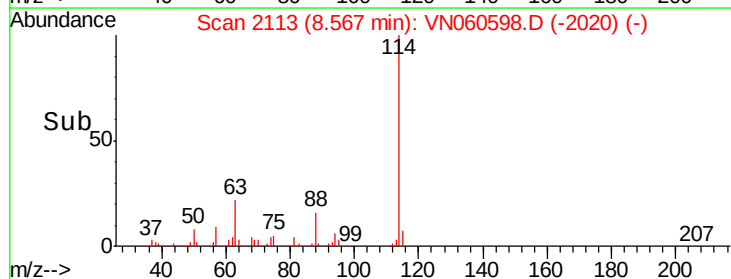
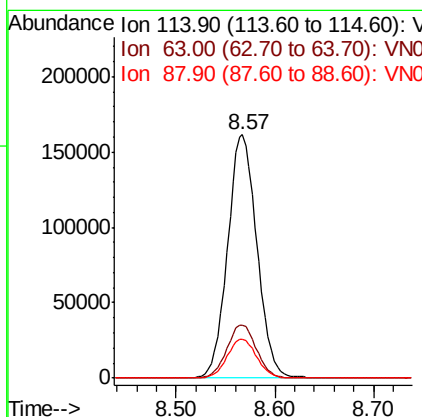
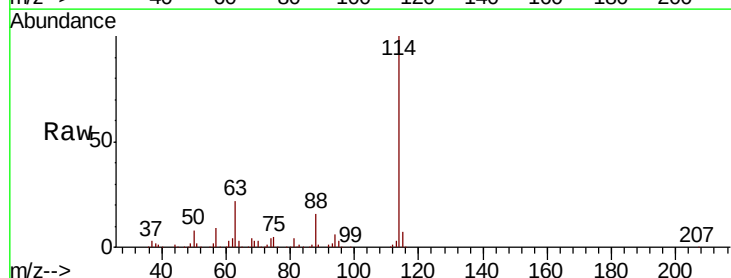
Instrument :
 MSVOA_N
 ClientSampleId :
 MH-G

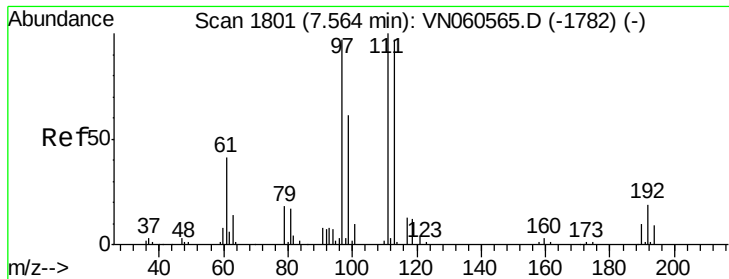
Tot Ion: 65 Resp: 131705
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060598.D
 Acq: 18 Mar 2020 17:34

Tgt Ion: 114 Resp: 335123
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 43.8
 88 16.1 0.0 33.0





#35

Dibromofluoromethane

Concen: 48.795 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VN060598.D

Acq: 18 Mar 2020 17:34

Instrument :

MSVOA_N

ClientSampled :

MH-G

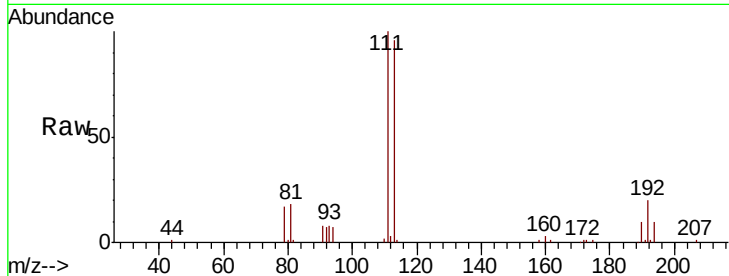
Tot Ion:113 Resp: 98878

Ion Ratio Lower Upper

113 100

111 103.1 82.9 124.3

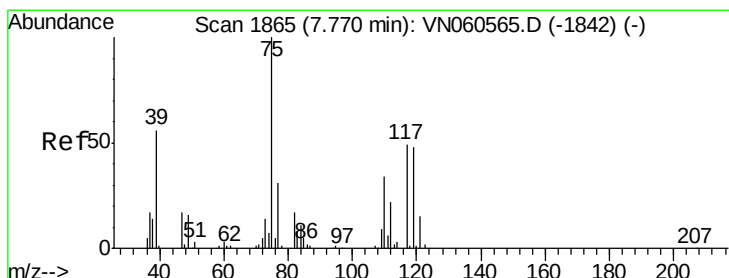
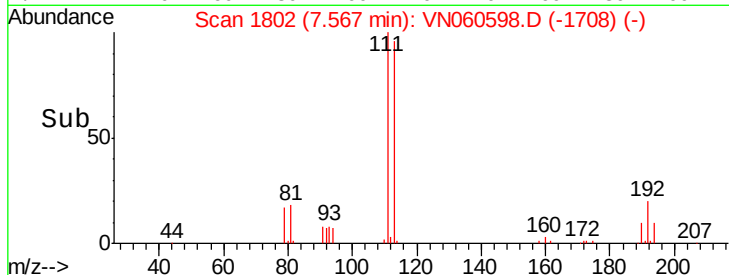
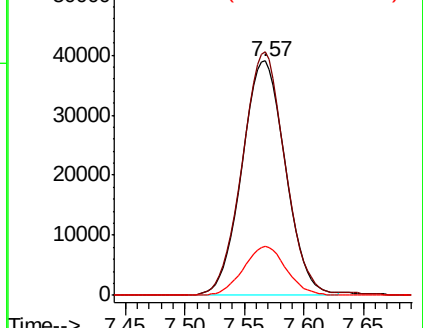
192 20.4 15.8 23.8



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.925 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060598.D

Acq: 18 Mar 2020 17:34

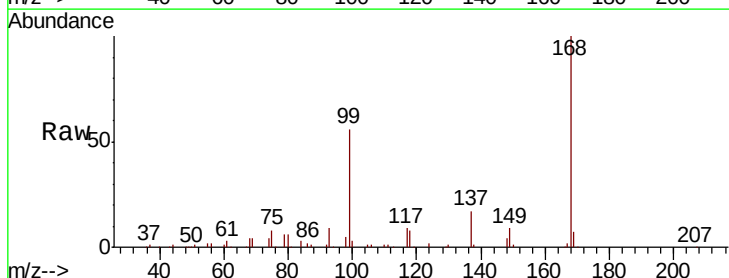
Tgt Ion: 75 Resp: 15983

Ion Ratio Lower Upper

75 100

110 8.1 16.9 50.6#

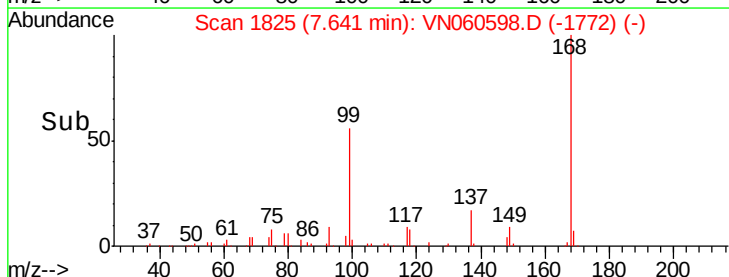
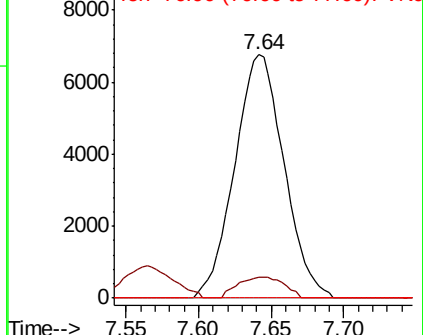
77 0.0 24.6 36.8#

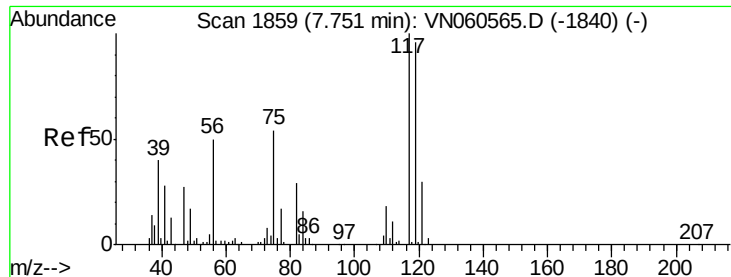


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VN0





#38

Carbon Tetrachloride

Concen: 6.536 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN060598.D

Acq: 18 Mar 2020 17:34

Instrument :

MSVOA_N

ClientSampled :

MH-G

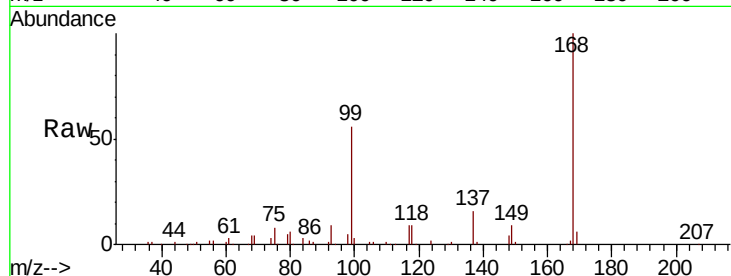
Tot Ion:117 Resp: 19010

Ion Ratio Lower Upper

117 100

119 4.5 76.2 114.2#

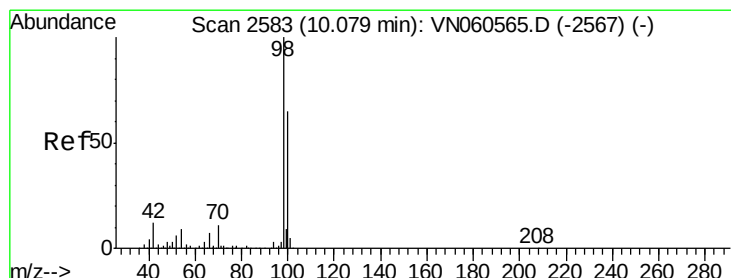
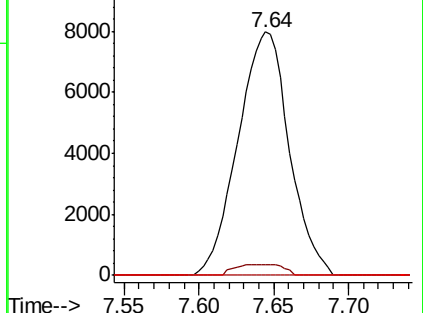
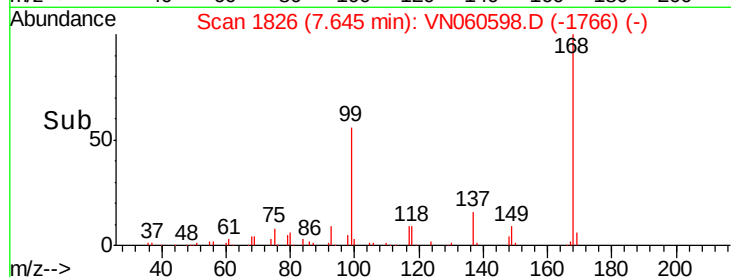
121 0.0 23.7 35.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 49.240 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060598.D

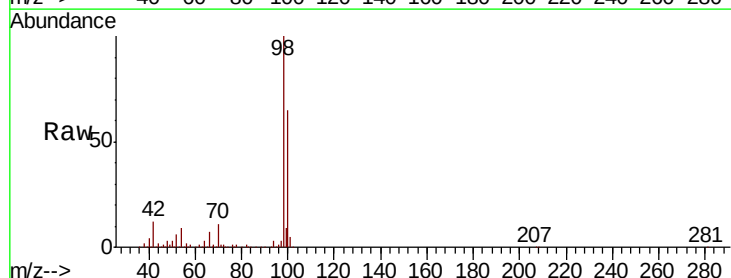
Acq: 18 Mar 2020 17:34

Tgt Ion: 98 Resp: 407559

Ion Ratio Lower Upper

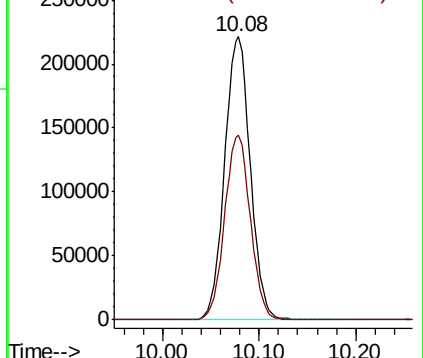
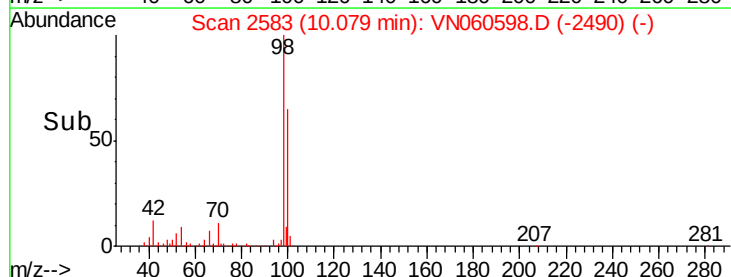
98 100

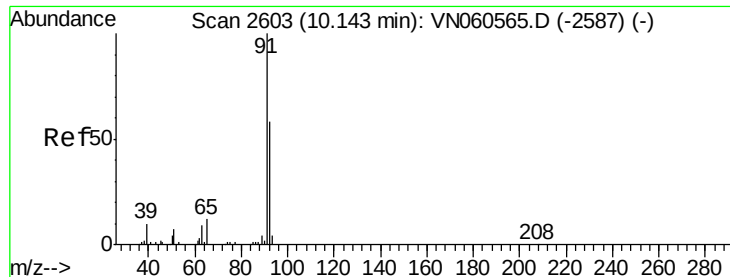
100 65.4 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN





#52

Toluene

Concen: 1.236 ug/l

RT: 10.14 min Scan# 2603

Delta R.T. 0.00 min

Lab File: VN060598.D

Acq: 18 Mar 2020 17:34

Instrument :

MSVOA_N

ClientSampleId :

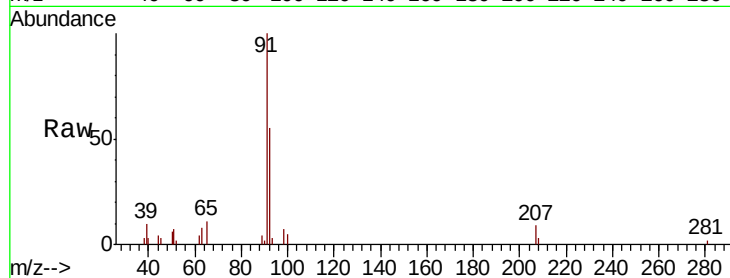
MH-G

Tot Ion: 92 Resp: 7315

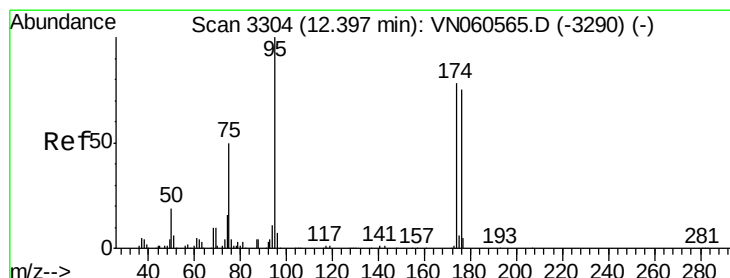
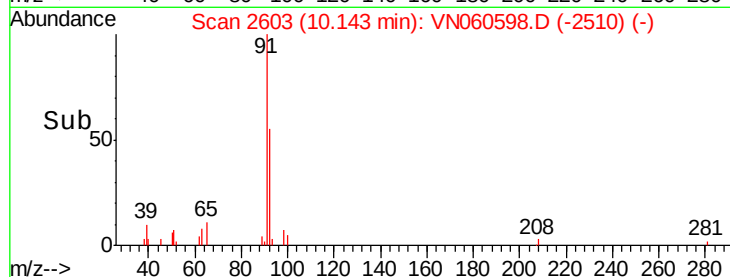
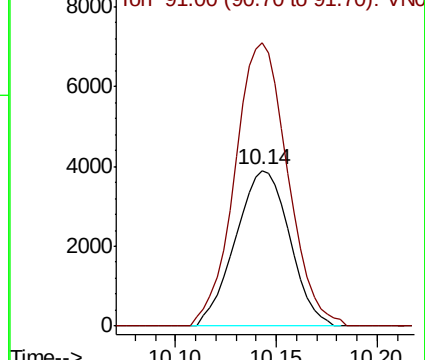
Ion Ratio Lower Upper

92 100

91 177.6 137.6 206.4



Abundance Ion 92.00 (91.70 to 92.70): VN060598.D (-2510) (-)



#62

4-Bromofluorobenzene

Concen: 49.765 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060598.D

Acq: 18 Mar 2020 17:34

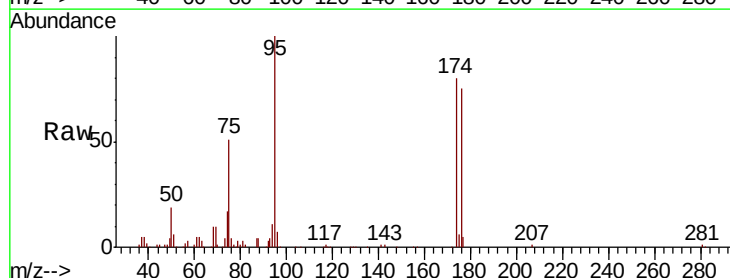
Tgt Ion: 95 Resp: 150958

Ion Ratio Lower Upper

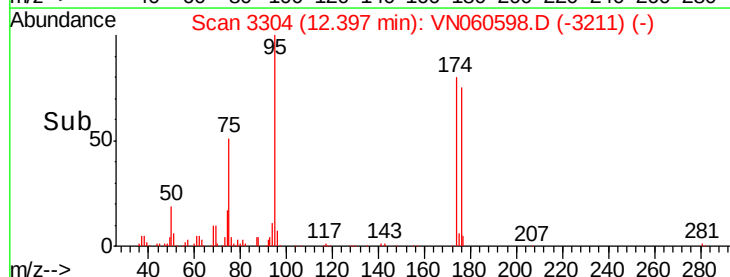
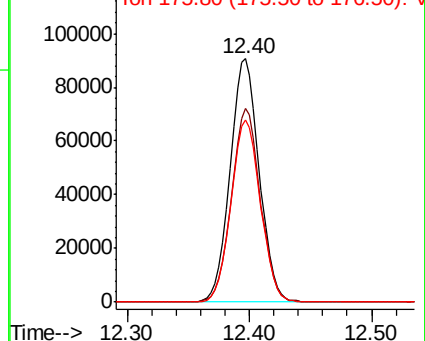
95 100

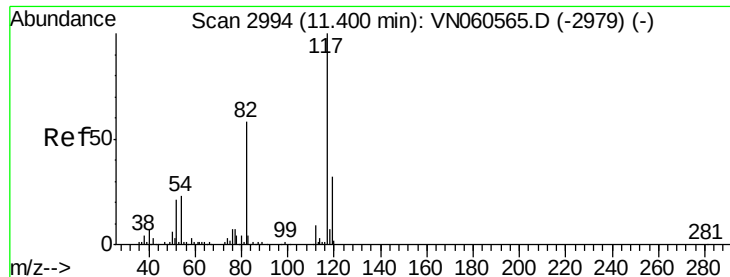
174 78.8 0.0 157.6

176 75.6 0.0 150.6



Abundance Ion 94.90 (94.60 to 95.60): VN060598.D (-3211) (-)

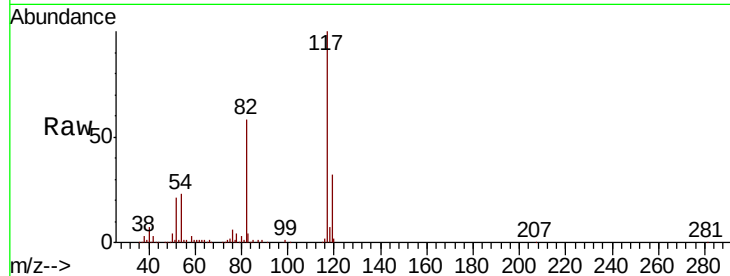




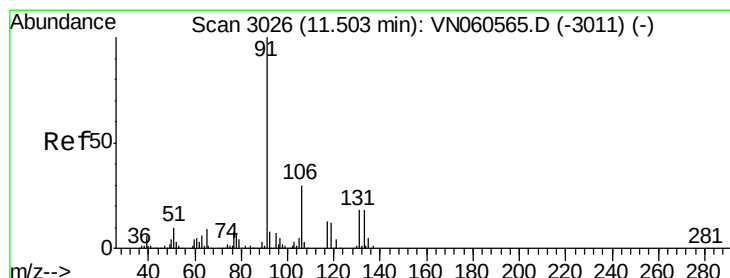
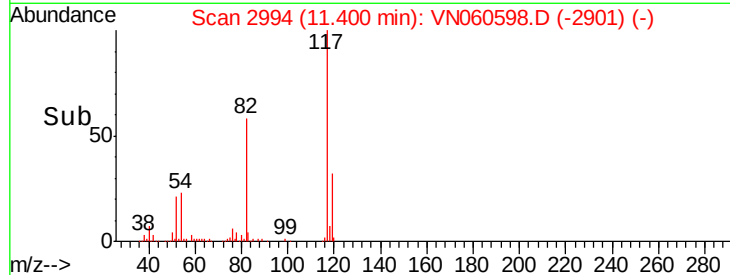
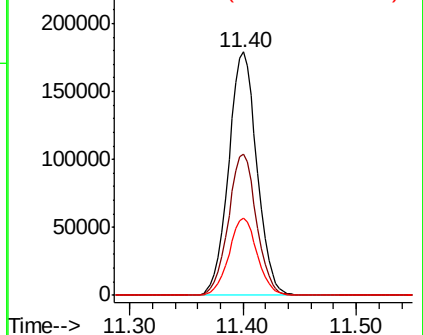
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060598.D
Acq: 18 Mar 2020 17:34

Instrument :
MSVOA_N
ClientSampleId :
MH-G

Tot Ion:117 Resp: 310789
Ion Ratio Lower Upper
117 100
82 58.2 46.7 70.1
119 31.6 25.5 38.3

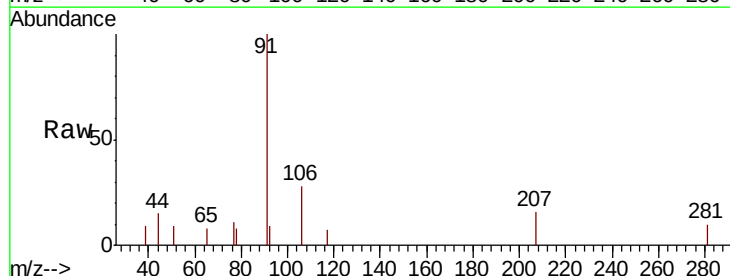


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

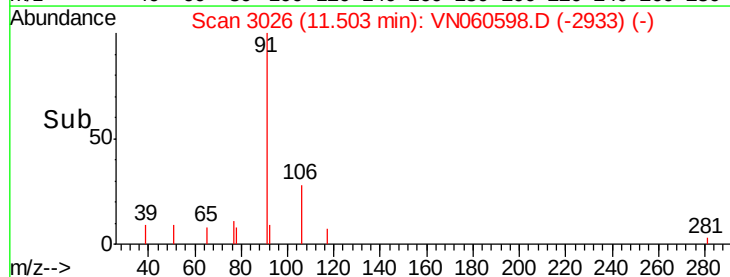
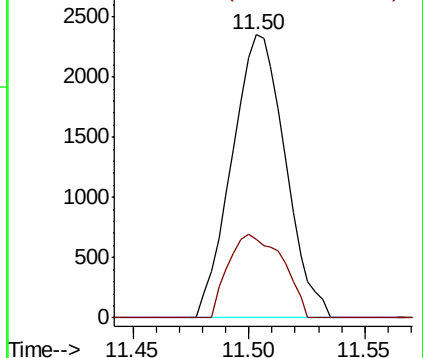


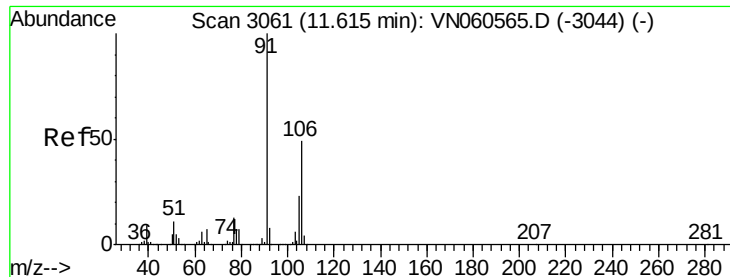
#67
Ethyl Benzene
Concen: 0.328 ug/l
RT: 11.50 min Scan# 3026
Delta R.T. 0.00 min
Lab File: VN060598.D
Acq: 18 Mar 2020 17:34

Tgt Ion: 91 Resp: 3759
Ion Ratio Lower Upper
91 100
106 27.7 24.2 36.2



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

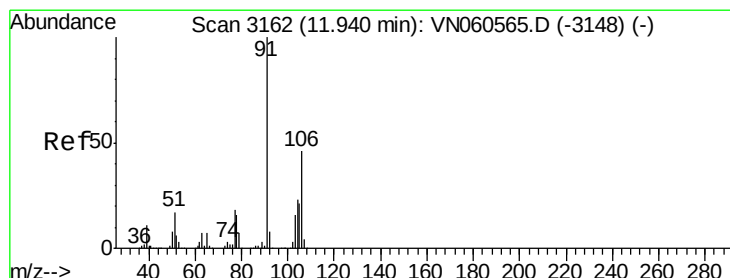
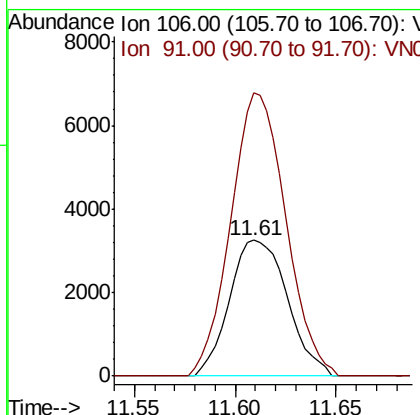
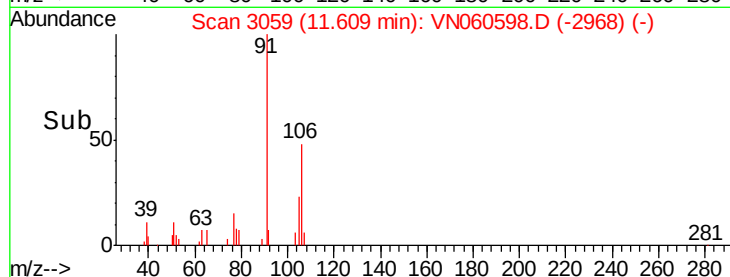
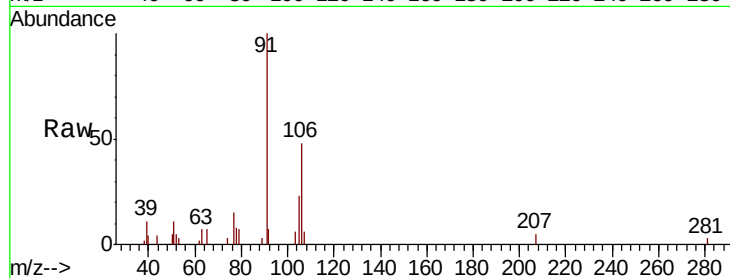




#68
m/p-Xylenes
Concen: 1.535 ug/l
RT: 11.61 min Scan# 3059
Delta R.T. -0.01 min
Lab File: VN060598.D
Acq: 18 Mar 2020 17:34

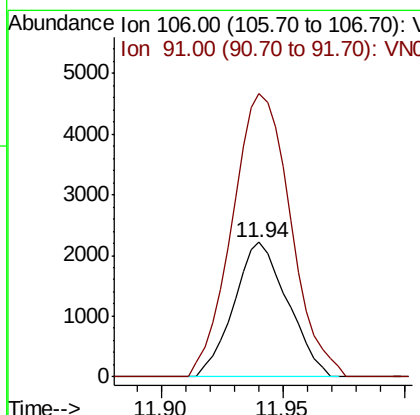
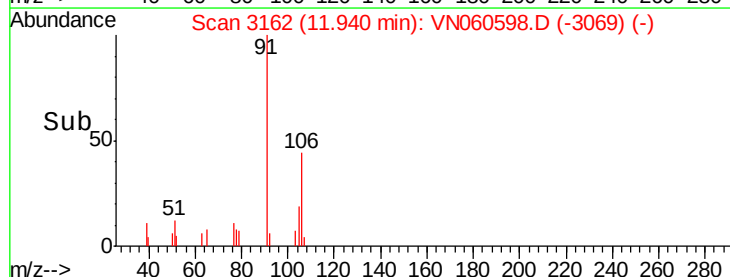
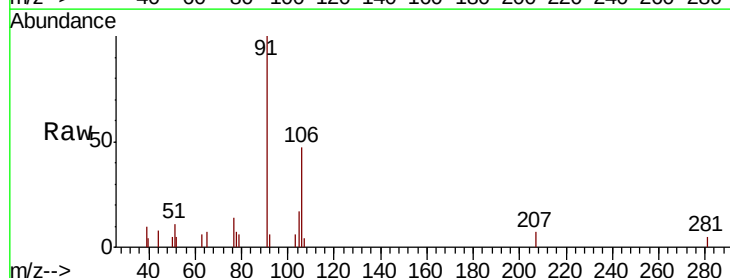
Instrument :
MSVOA_N
ClientSampled :
MH-G

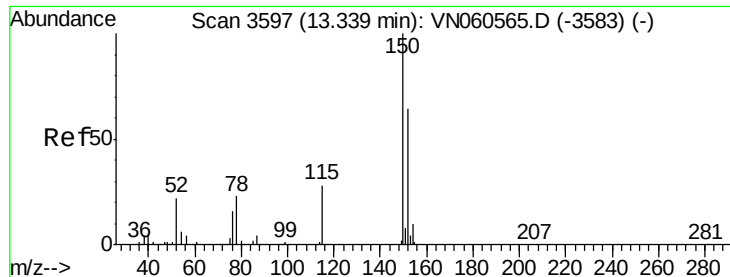
Tot Ion:106 Resp: 6534
Ion Ratio Lower Upper
106 100
91 197.6 165.0 247.4



#69
o-Xylene
Concen: 0.832 ug/l
RT: 11.94 min Scan# 3162
Delta R.T. 0.00 min
Lab File: VN060598.D
Acq: 18 Mar 2020 17:34

Tgt Ion:106 Resp: 3380
Ion Ratio Lower Upper
106 100
91 229.2 109.5 328.4



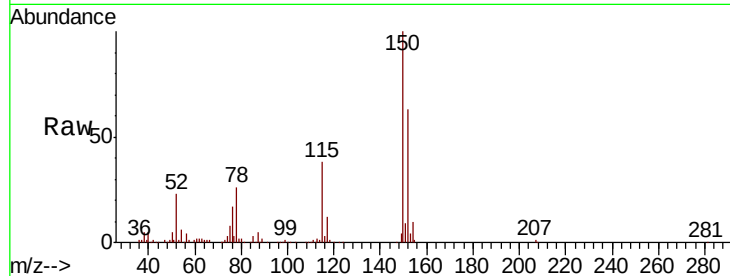


#72

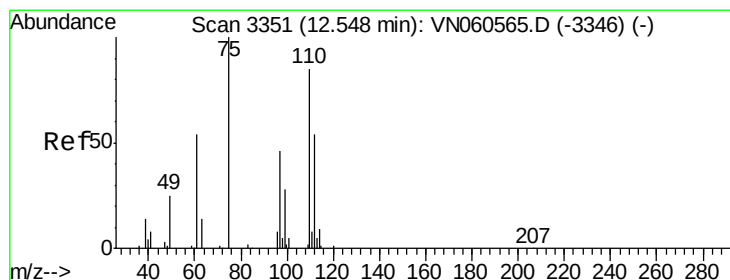
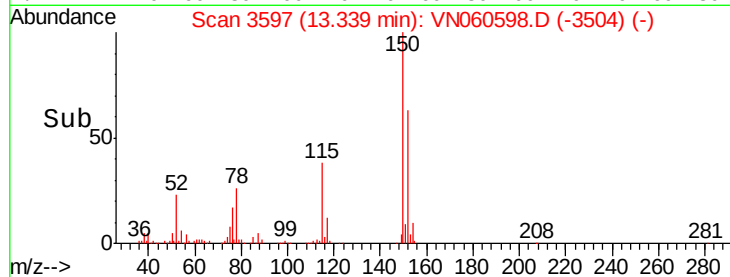
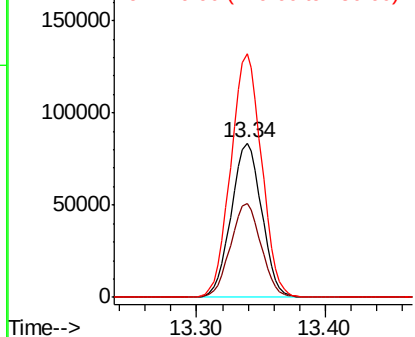
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. 0.00 min
Lab File: VN060598.D
Acq: 18 Mar 2020 17:34

Instrument :
MSVOA_N
ClientSampleId :
MH-G

Tot Ion:152 Resp: 137626
Ion Ratio Lower Upper
152 100
115 60.9 30.2 90.6
150 158.8 0.0 350.2



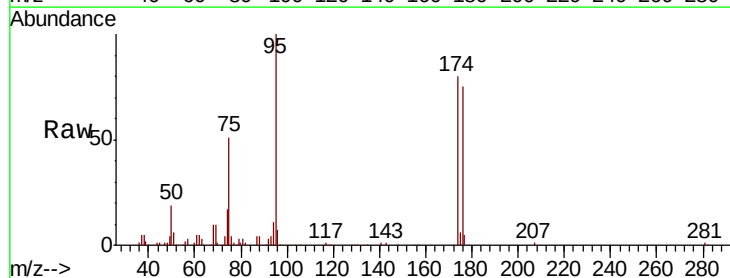
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



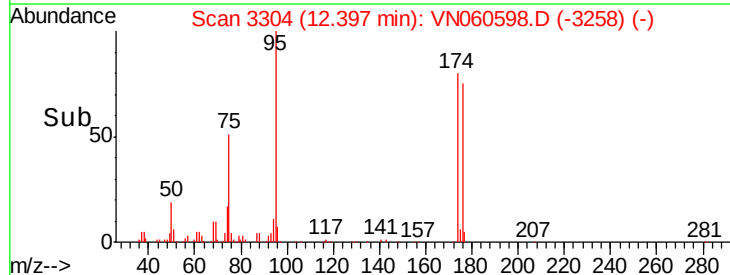
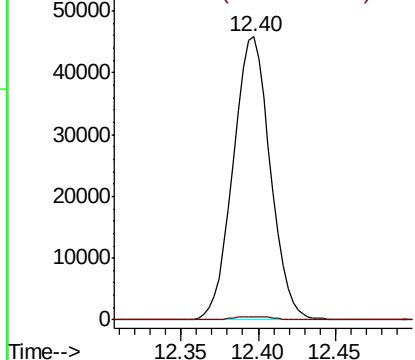
#76

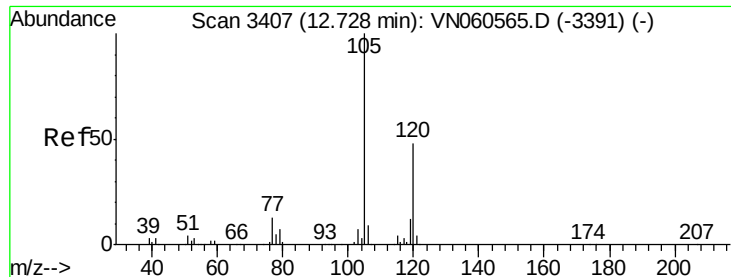
1,2,3-Trichloropropane
Concen: 25.751 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.15 min
Lab File: VN060598.D
Acq: 18 Mar 2020 17:34

Tgt Ion: 75 Resp: 76473
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 77.00 (76.70 to 77.70): V

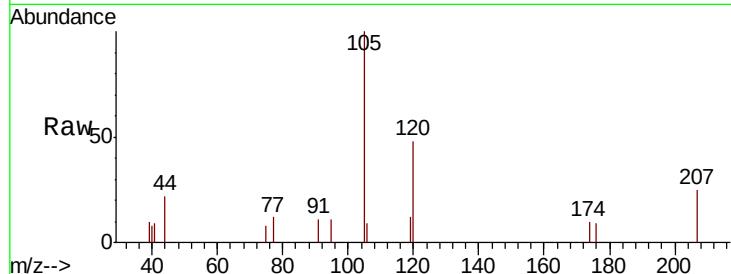




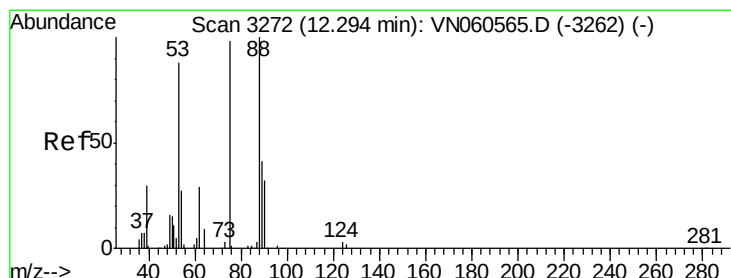
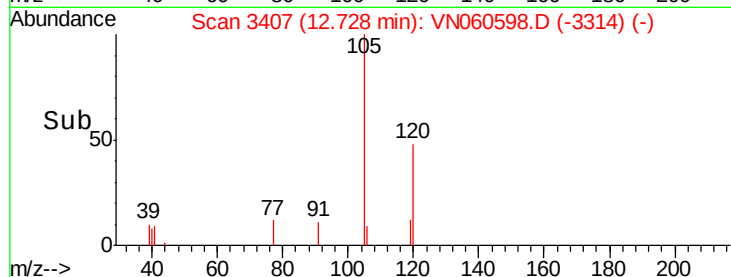
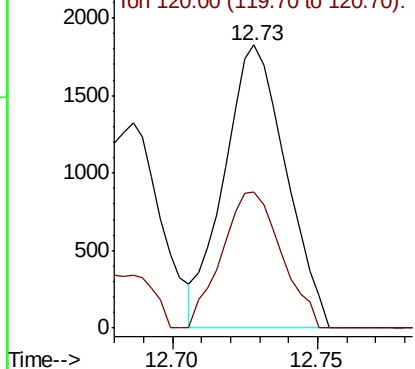
#80
 1,3,5-Trimethylbenzene
 Concen: 0.308 ug/l
 RT: 12.73 min Scan# 3407
 Delta R.T. 0.00 min
 Lab File: VN060598.D
 Acq: 18 Mar 2020 17:34

Instrument :
 MSVOA_N
 ClientSampleId :
 MH-G

Tot Ion:105 Resp: 2699
 Ion Ratio Lower Upper
 105 100
 120 46.3 23.9 71.7

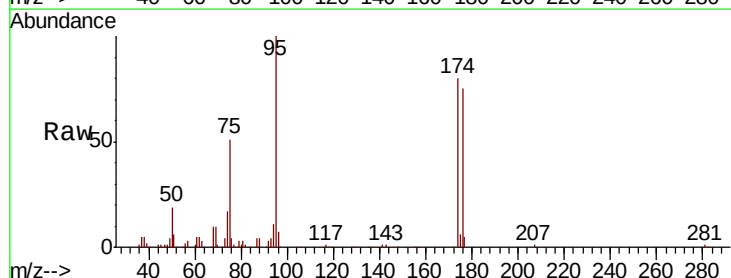


Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 120.00 (119.70 to 120.70): V

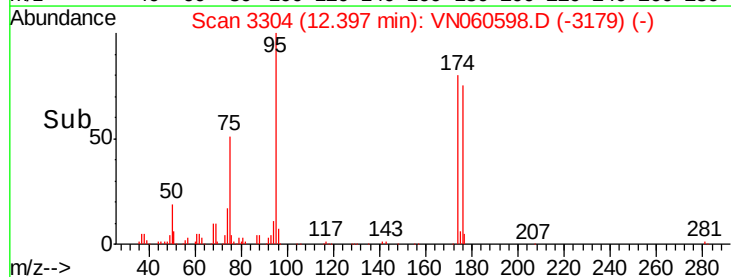
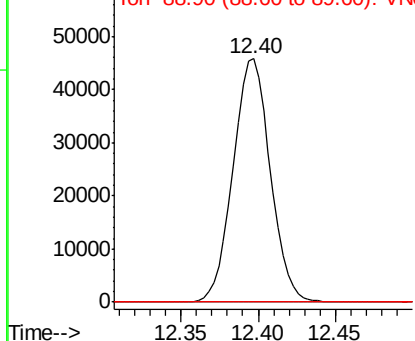


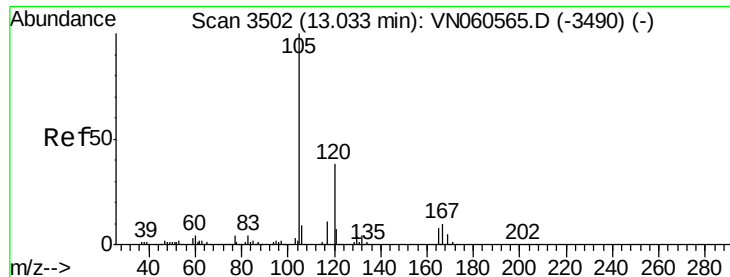
#81
 trans-1,4-Dichloro-2-butene
 Concen: 66.137 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. 0.10 min
 Lab File: VN060598.D
 Acq: 18 Mar 2020 17:34

Tgt Ion: 75 Resp: 76473
 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): VNO
 Ion 53.00 (52.70 to 53.70): VNO
 Ion 88.90 (88.60 to 89.60): VNO

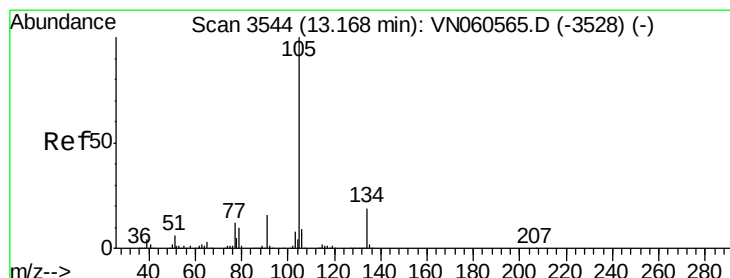
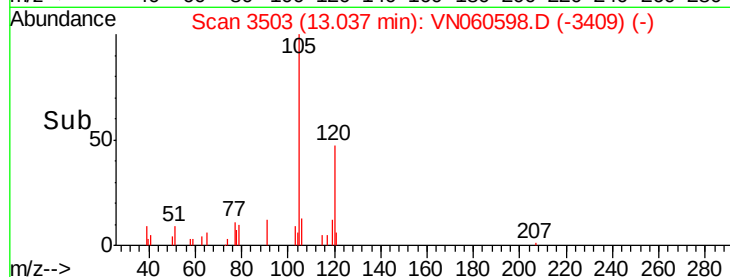
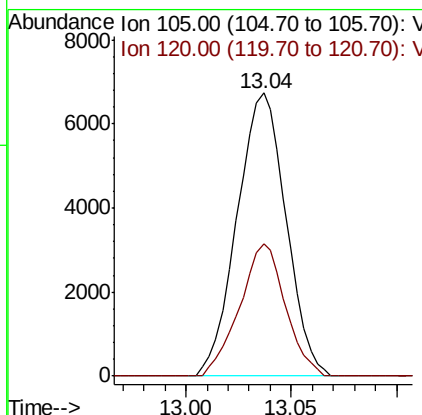
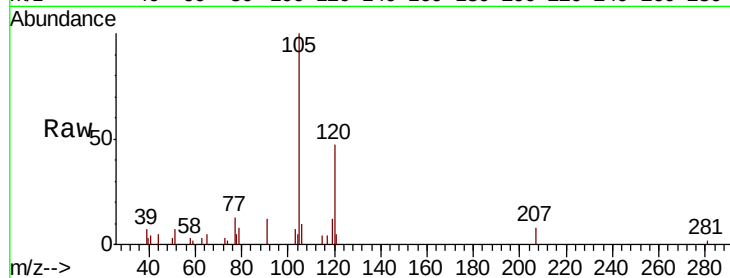




#84
 1,2,4-Trimethylbenzene
 Concen: 1.250 ug/l
 RT: 13.04 min Scan# 3503
 Delta R.T. 0.00 min
 Lab File: VN060598.D
 Acq: 18 Mar 2020 17:34

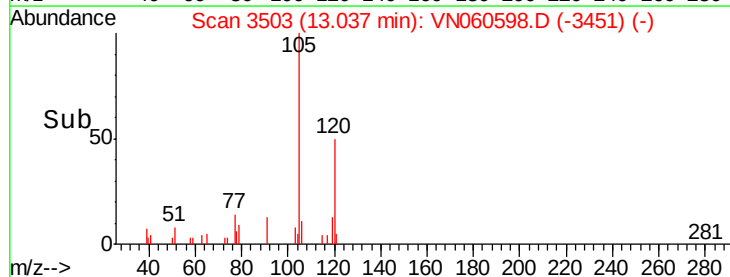
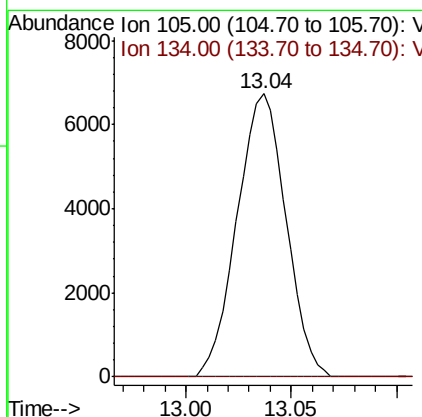
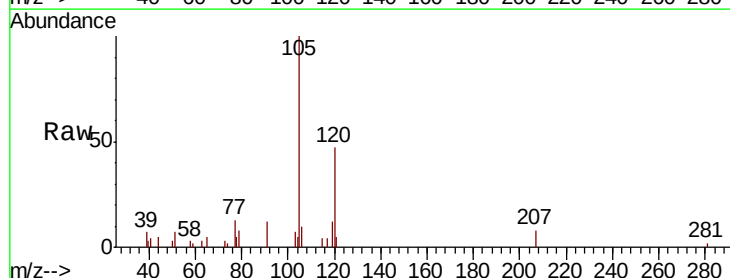
Instrument :
 MSVOA_N
 ClientSampled :
 MH-G

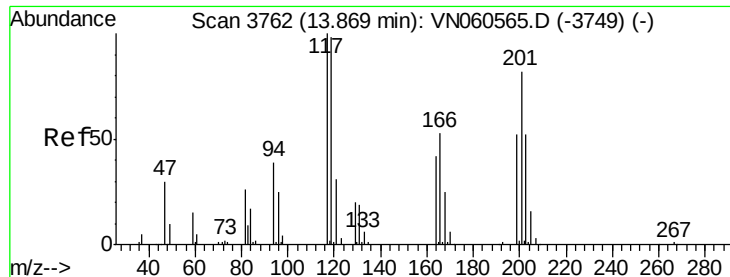
Tot Ion:105 Resp: 10838
 Ion Ratio Lower Upper
 105 100
 120 43.7 22.1 66.5



#85
 sec-Butylbenzene
 Concen: 1.109 ug/l
 RT: 13.04 min Scan# 3503
 Delta R.T. -0.13 min
 Lab File: VN060598.D
 Acq: 18 Mar 2020 17:34

Tgt Ion:105 Resp: 10838
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.6 28.8#





#90

Hexachloroethane

Concen: 0.787 ug/l

RT: 13.99 min Scan# 3800

Delta R.T. 0.12 min

Lab File: VN060598.D

Acq: 18 Mar 2020 17:34

Instrument :

MSVOA_N

ClientSampled :

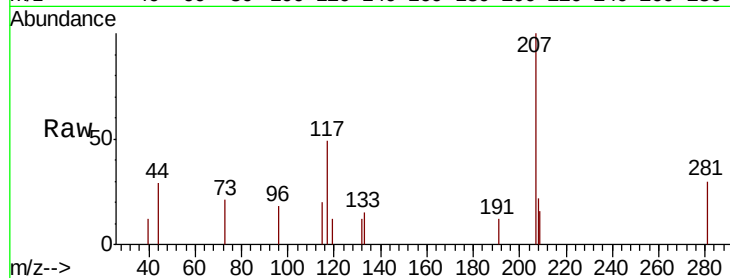
MH-G

Tot Ion:117 Resp: 1005

Ion Ratio Lower Upper

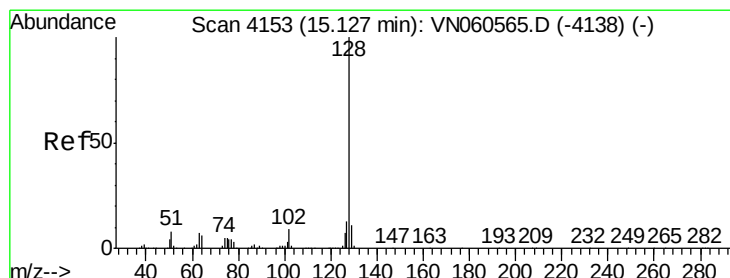
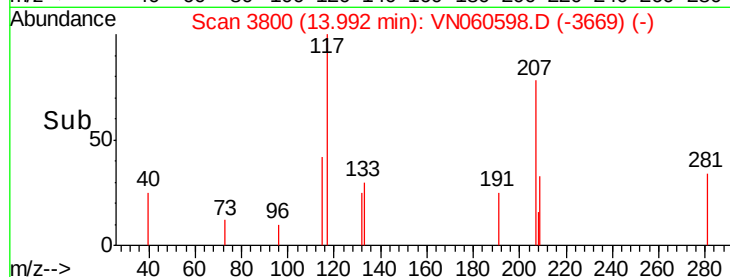
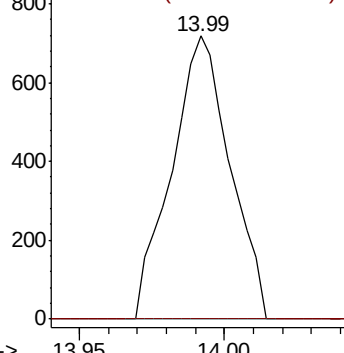
117 100

201 0.0 40.8 122.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 0.828 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. 0.00 min

Lab File: VN060598.D

Acq: 18 Mar 2020 17:34

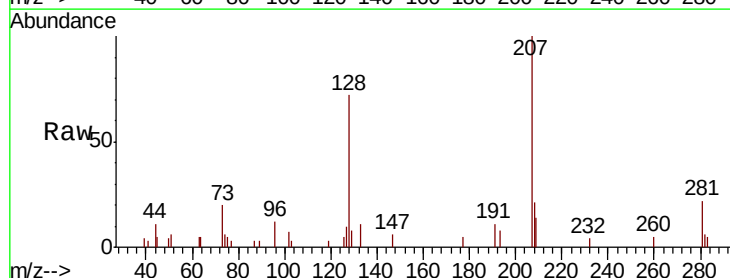
Tgt Ion:128 Resp: 6421

Ion Ratio Lower Upper

128 100

127 11.8 10.2 15.2

129 11.1 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

