

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031820\  
 Data File : VN060593.D  
 Acq On : 18 Mar 2020 15:40  
 Operator : JC/MD  
 Sample : L1917-04  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MH-720

Quant Time: Mar 19 05:00:05 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  | 195266   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 320715   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 294766   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 130513   | 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   | 124997   | 46.63 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.26% |          |
| 35) Dibromofluoromethane    | 7.57  | 113  | 94100    | 48.52 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.04% |          |
| 50) Toluene-d8              | 10.08 | 98   | 393998   | 49.74 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.48% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 145116   | 49.99 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.98% |          |

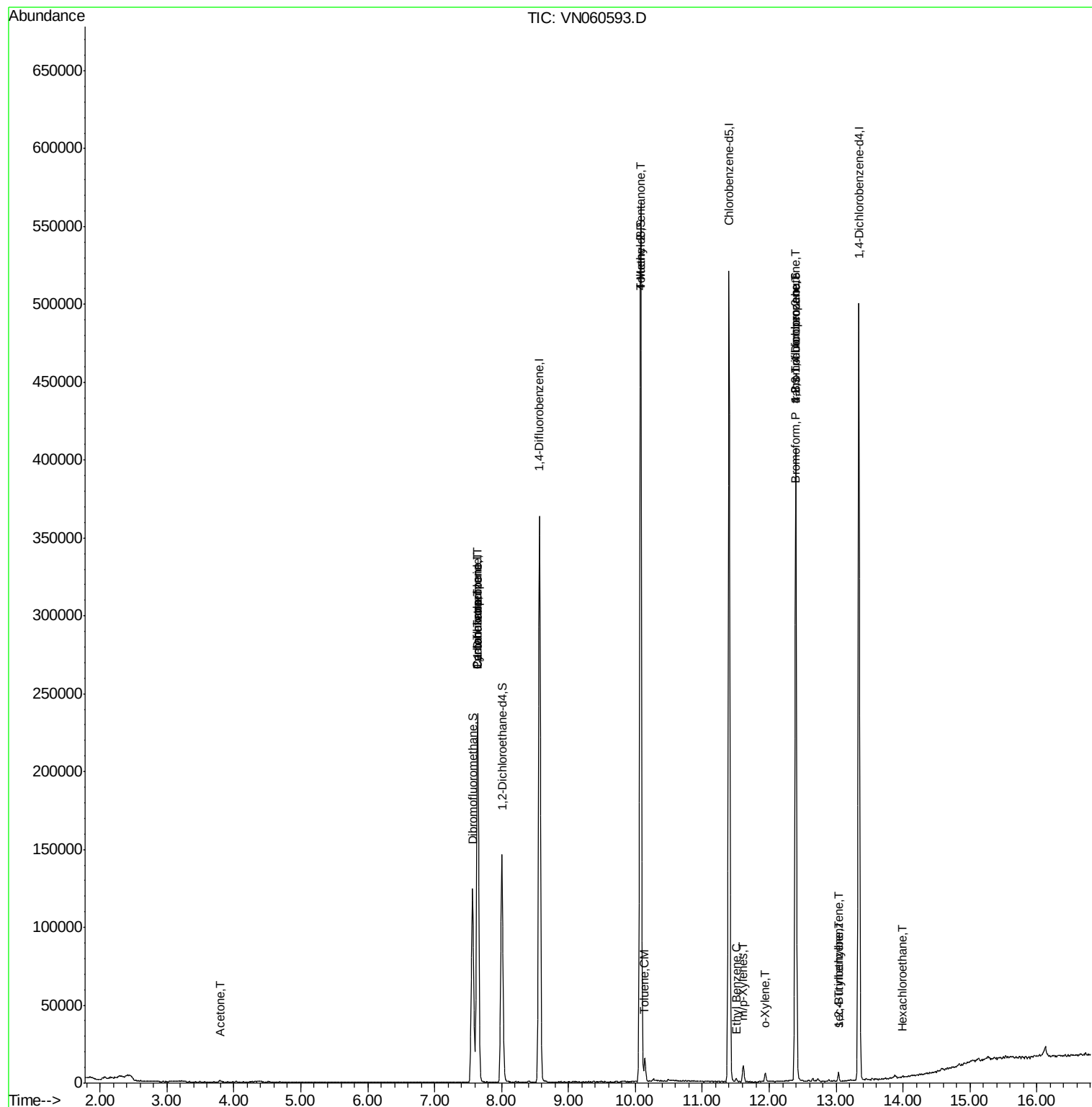
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 16) Acetone                    | 3.79  | 43   | 1766     | 1.860  | ug/l   | 97     |
| 31) Cyclohexane                | 7.64  | 56   | 4116     | 0.953  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.64  | 75   | 15195    | 4.893  | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.64  | 117  | 18367    | 6.599  | ug/l # | 16     |
| 51) 4-Methyl-2-Pentanone       | 10.08 | 43   | 1833     | 0.582  | ug/l # | 1      |
| 52) Toluene                    | 10.14 | 92   | 6366     | 1.124  | ug/l   | 98     |
| 67) Ethyl Benzene              | 11.50 | 91   | 2416     | 0.222  | ug/l   | 94     |
| 68) m/p-Xylenes                | 11.61 | 106  | 3477     | 0.861  | ug/l   | 98     |
| 69) o-Xylene                   | 11.94 | 106  | 1856     | 0.481  | ug/l   | 91     |
| 71) Bromoform                  | 12.38 | 173  | 91       | 1.730  | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 72373    | 25.699 | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 72373    | 66.002 | ug/l # | 13     |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 3993     | 0.486  | ug/l   | 90     |
| 85) sec-Butylbenzene           | 13.04 | 105  | 3993     | 0.431  | ug/l # | 58     |
| 90) Hexachloroethane           | 13.99 | 117  | 479      | 0.396  | ug/l # | 8      |

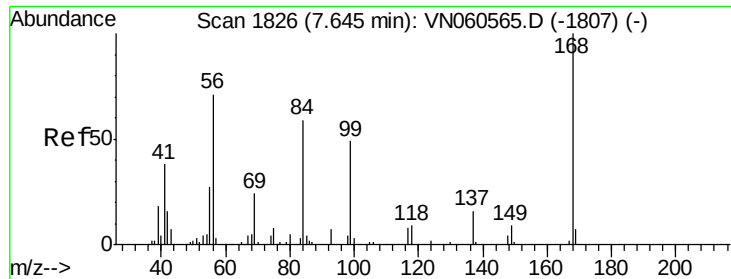
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN031820\  
Data File : VN060593.D  
Acq On : 18 Mar 2020 15:40  
Operator : JC/MD  
Sample : L1917-04  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
MH-720

Quant Time: Mar 19 05:00:05 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N031820W.M  
Quant Title : SW846 8260  
QLast Update : Wed Mar 18 08:49:09 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060593.D

Acq: 18 Mar 2020 15:40

Instrument :

MSVOA\_N

ClientSampleId :

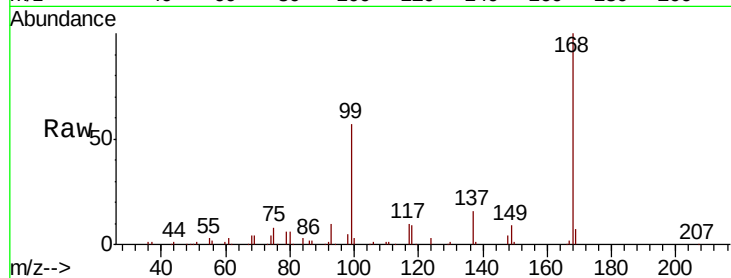
MH-720

Tot Ion:168 Resp: 195266

Ion Ratio Lower Upper

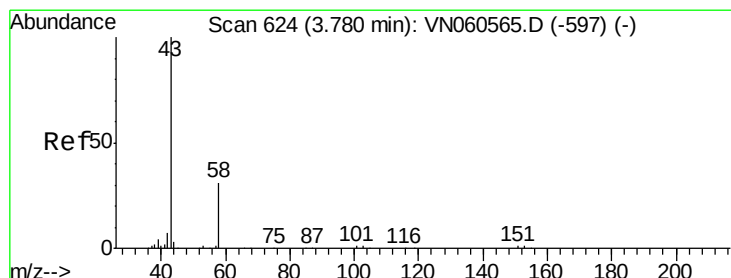
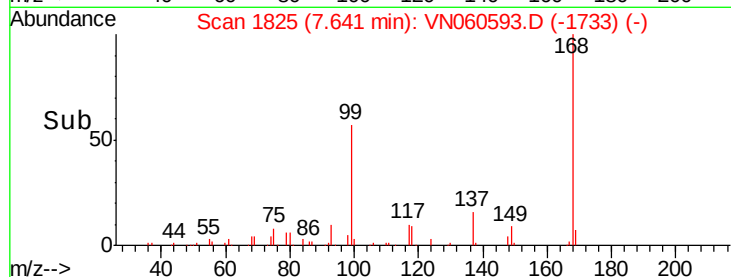
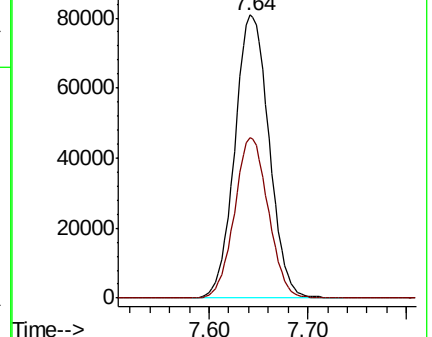
168 100

99 56.8 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) (-)



#16

Acetone

Concen: 1.860 ug/l

RT: 3.79 min Scan# 628

Delta R.T. 0.01 min

Lab File: VN060593.D

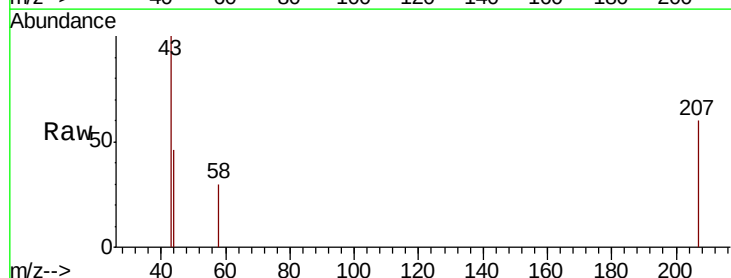
Acq: 18 Mar 2020 15:40

Tgt Ion: 43 Resp: 1766

Ion Ratio Lower Upper

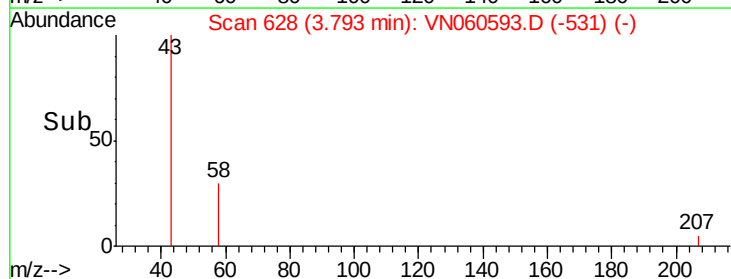
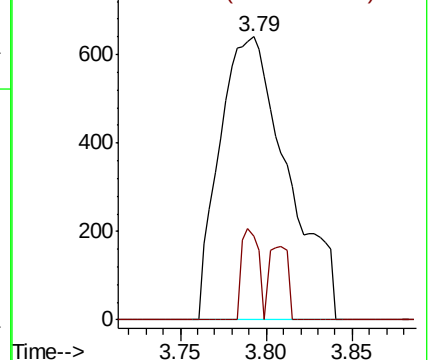
43 100

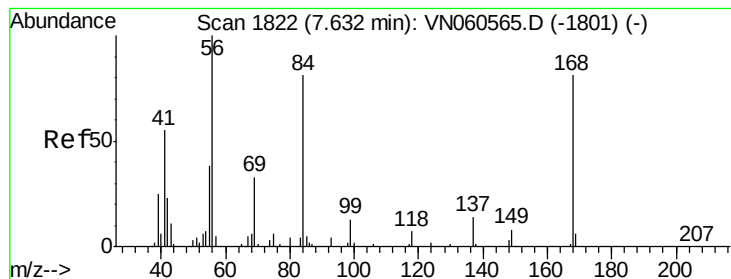
58 29.7 25.1 37.7



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

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





#31

Cyclohexane

Concen: 0.953 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. 0.01 min

Lab File: VN060593.D

Acq: 18 Mar 2020 15:40

Instrument :

MSVOA\_N

ClientSampled :

MH-720

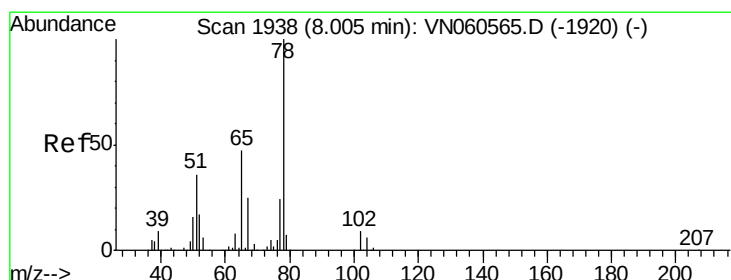
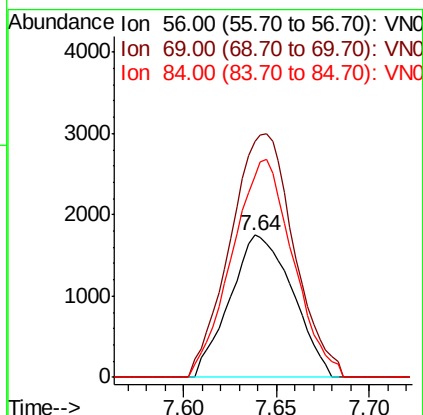
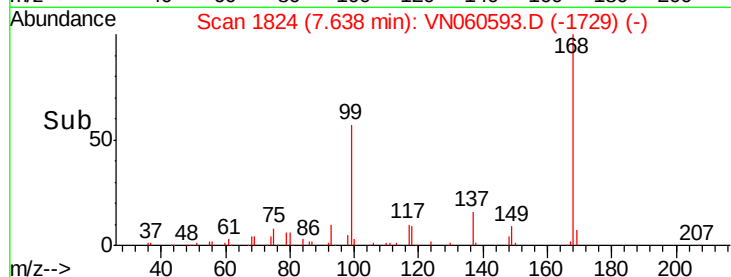
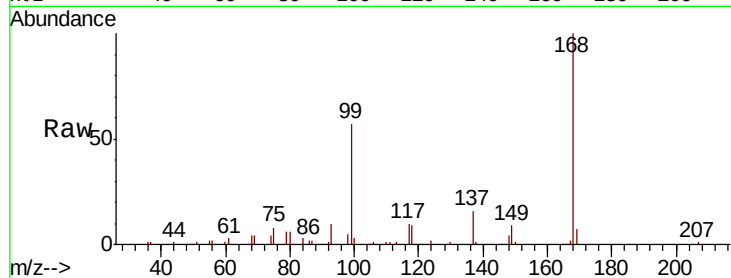
Tot Ion: 56 Resp: 4116

Ion Ratio Lower Upper

56 100

69 165.7 26.6 40.0#

84 141.9 64.3 96.5#



#33

1,2-Dichloroethane-d4

Concen: 46.631 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. -0.00 min

Lab File: VN060593.D

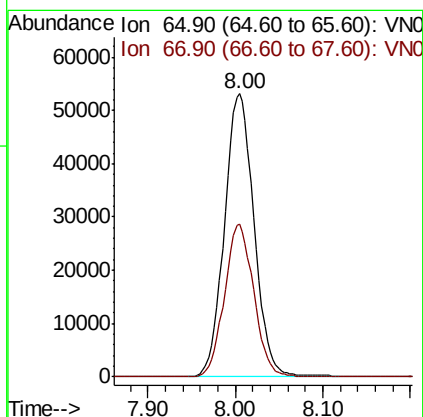
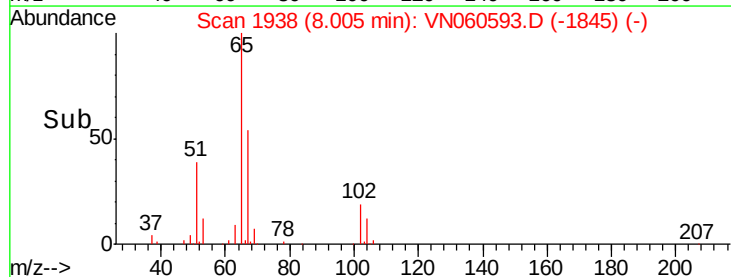
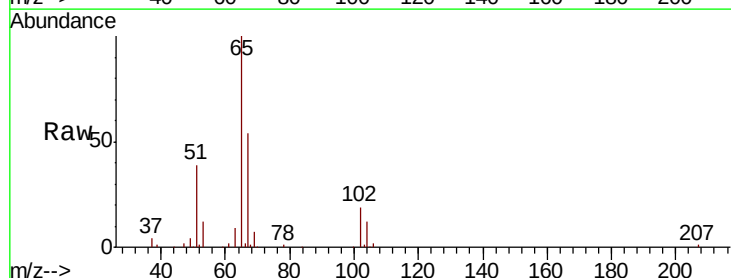
Acq: 18 Mar 2020 15:40

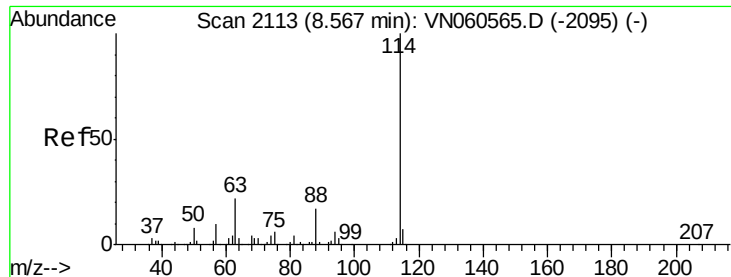
Tgt Ion: 65 Resp: 124997

Ion Ratio Lower Upper

65 100

67 53.1 0.0 107.6

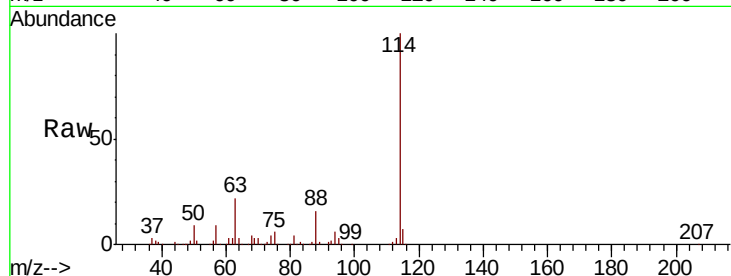




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.57 min Scan# 2113  
 Delta R.T. -0.00 min  
 Lab File: VN060593.D  
 Acq: 18 Mar 2020 15:40

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MH-720

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 22.3  | 0.0   | 43.8  |
| 88      | 16.2  | 0.0   | 33.0  |

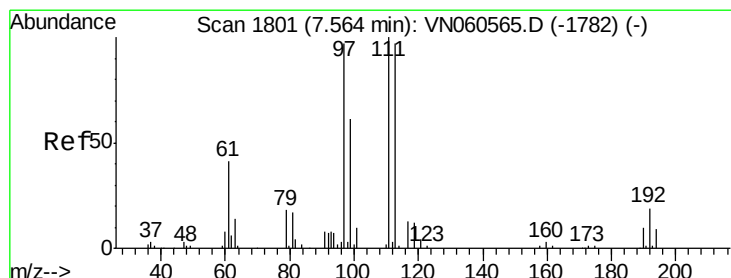
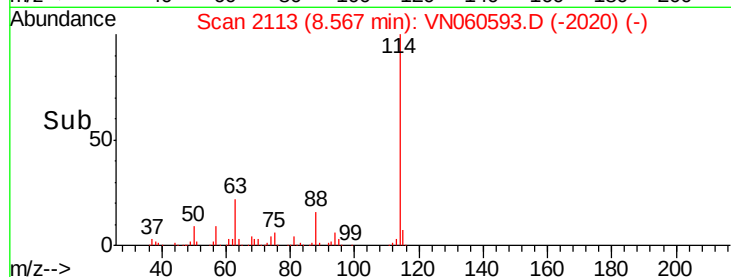
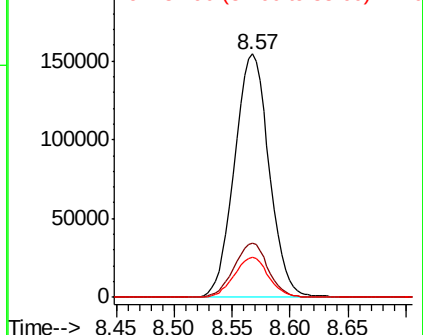


Abundance

Ion 113.90 (113.60 to 114.60): V

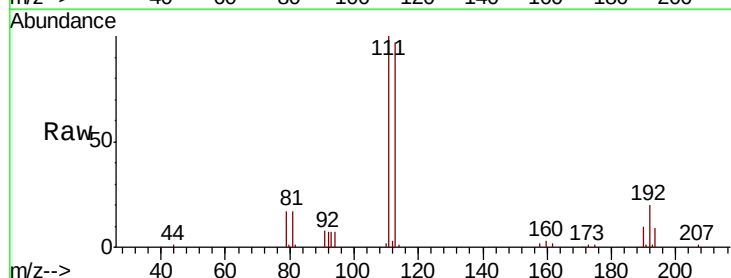
Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35  
 Dibromofluoromethane  
 Concen: 48.524 ug/l  
 RT: 7.57 min Scan# 1802  
 Delta R.T. 0.00 min  
 Lab File: VN060593.D  
 Acq: 18 Mar 2020 15:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.5 | 82.9  | 124.3 |
| 192     | 20.4  | 15.8  | 23.8  |

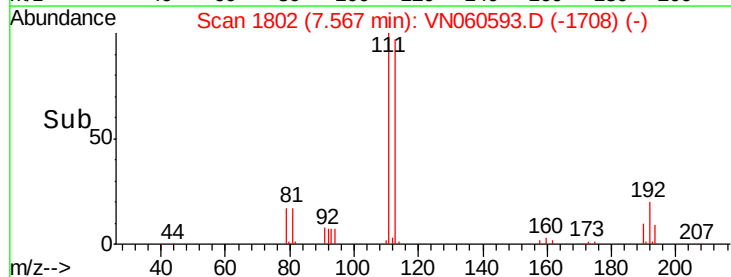
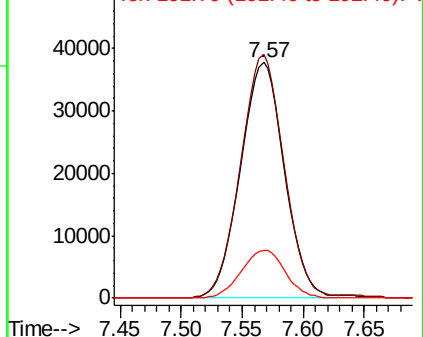


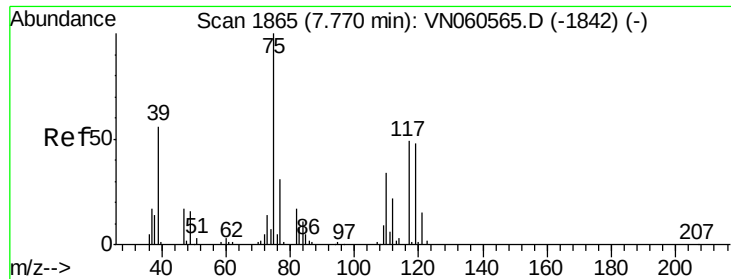
Abundance

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

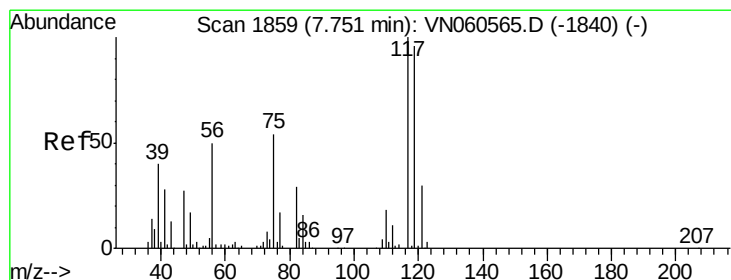
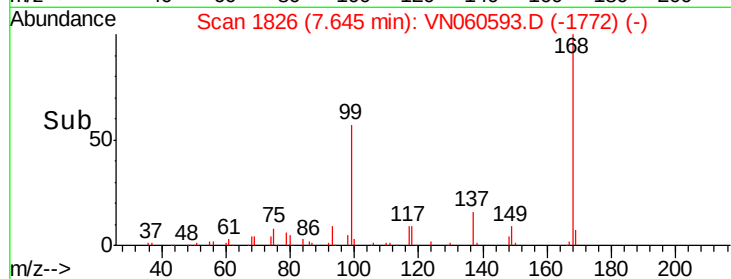
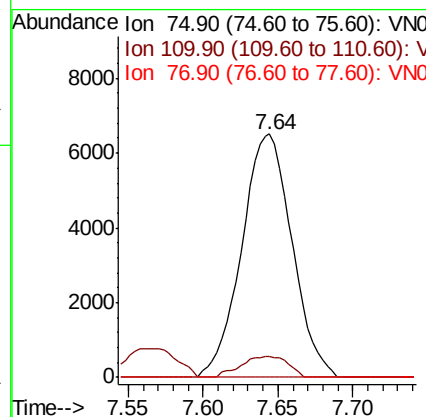
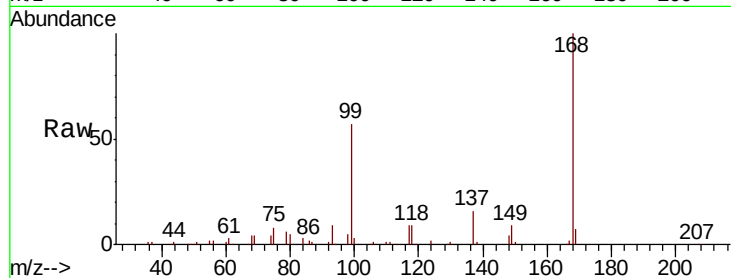




#36  
 1,1-Dichloropropene  
 Concen: 4.893 ug/l  
 RT: 7.64 min Scan# 1826  
 Delta R.T. -0.13 min  
 Lab File: VN060593.D  
 Acq: 18 Mar 2020 15:40

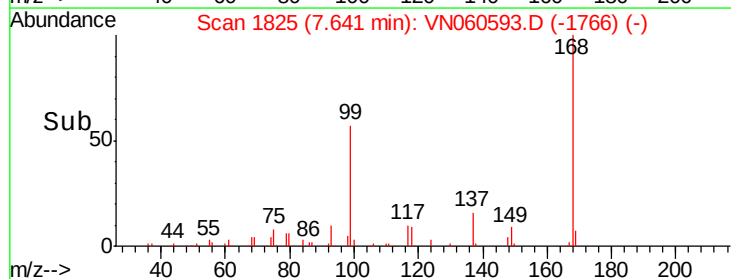
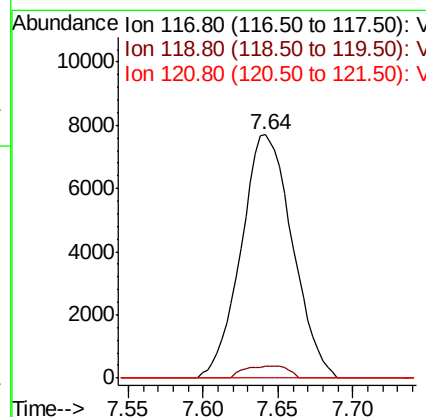
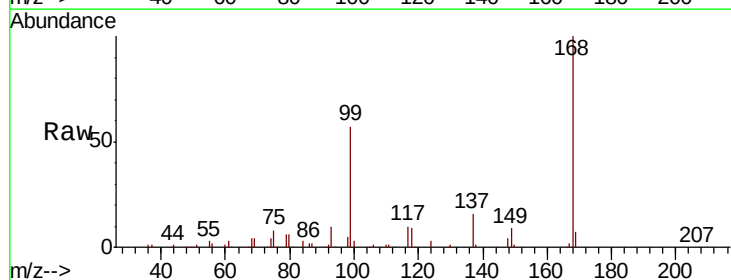
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 MH-720

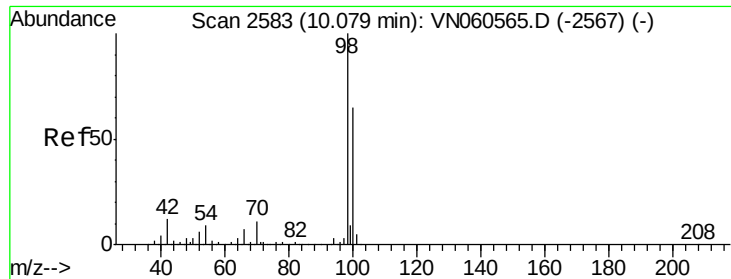
| Tot Ion   | 75    | Resp  | 15195 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 110       | 8.1   | 16.9  | 50.6# |
| 77        | 0.0   | 24.6  | 36.8# |



#38  
 Carbon Tetrachloride  
 Concen: 6.599 ug/l  
 RT: 7.64 min Scan# 1825  
 Delta R.T. -0.11 min  
 Lab File: VN060593.D  
 Acq: 18 Mar 2020 15:40

| Tgt Ion   | 117   | Resp  | 18367  |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 119       | 4.7   | 76.2  | 114.2# |
| 121       | 0.0   | 23.7  | 35.5#  |





#50

Toluene-d8

Concen: 49.740 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. -0.00 min

Lab File: VN060593.D

Acq: 18 Mar 2020 15:40

Instrument :

MSVOA\_N

ClientSampleId :

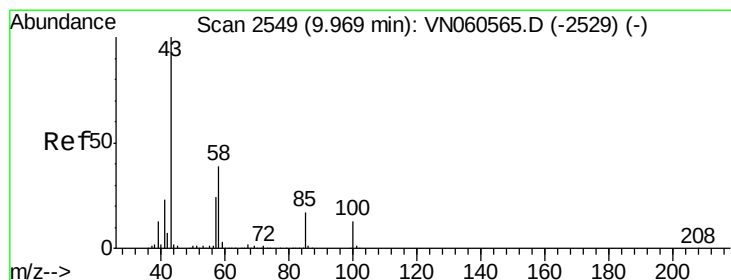
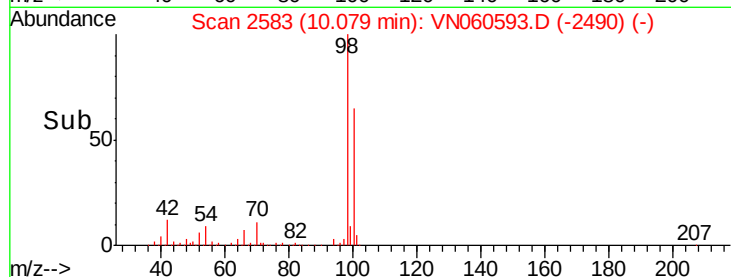
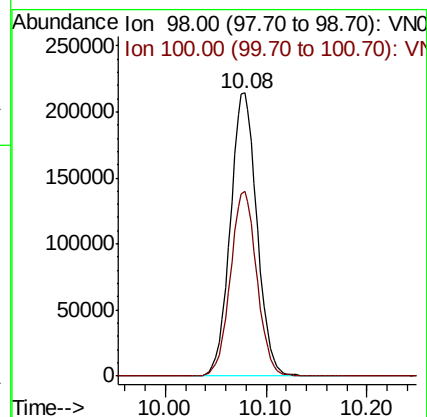
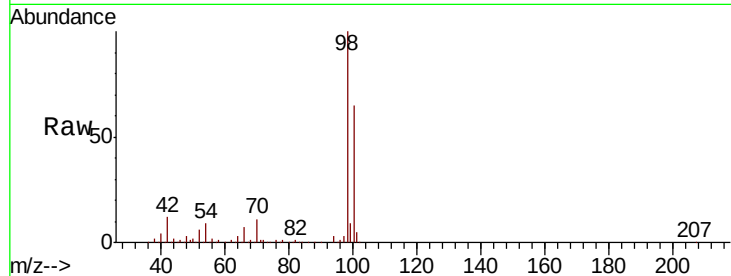
MH-720

Tot Ion: 98 Resp: 393998

Ion Ratio Lower Upper

98 100

100 65.0 51.8 77.8



#51

4-Methyl-2-Pentanone

Concen: 0.582 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. 0.11 min

Lab File: VN060593.D

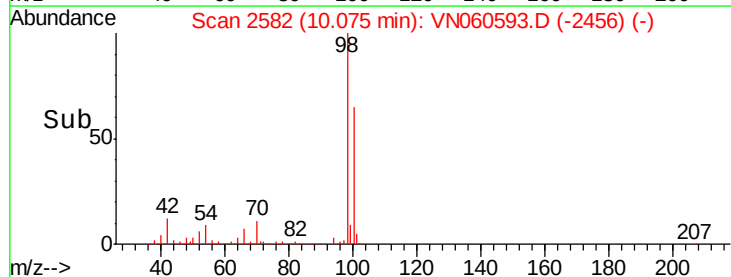
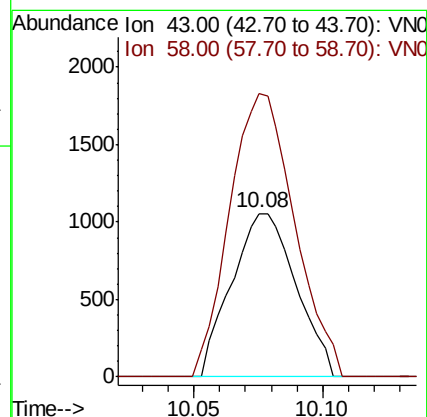
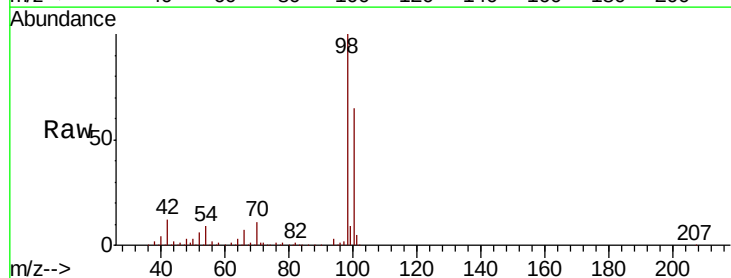
Acq: 18 Mar 2020 15:40

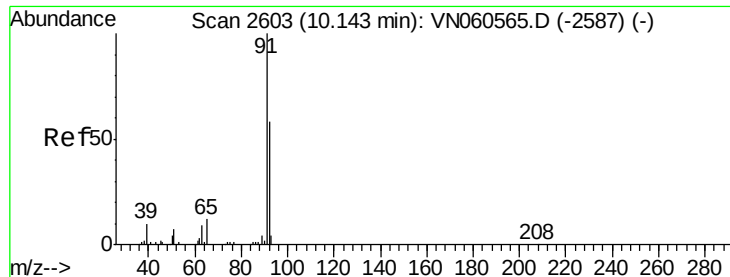
Tgt Ion: 43 Resp: 1833

Ion Ratio Lower Upper

43 100

58 174.6 30.8 46.2#





#52

Toluene

Concen: 1.124 ug/l

RT: 10.14 min Scan# 2603

Delta R.T. -0.00 min

Lab File: VN060593.D

Acq: 18 Mar 2020 15:40

Instrument :

MSVOA\_N

ClientSampleId :

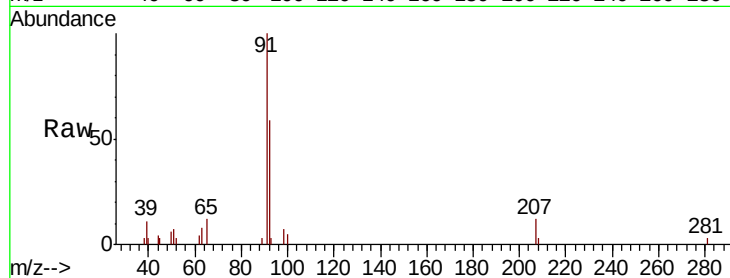
MH-720

Tot Ion: 92 Resp: 6366

Ion Ratio Lower Upper

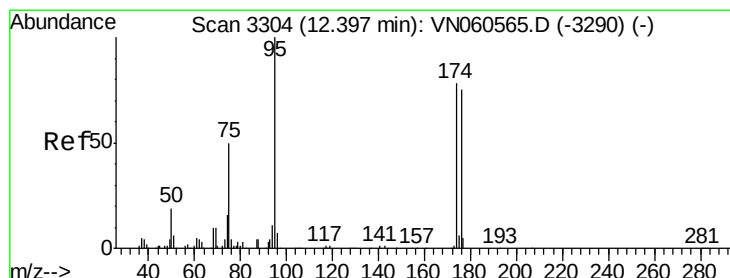
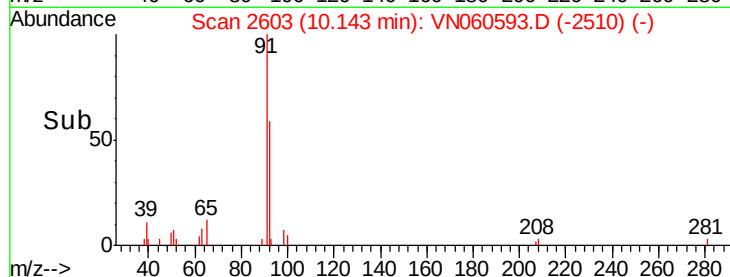
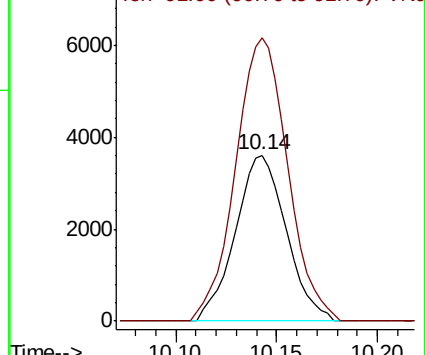
92 100

91 175.0 137.6 206.4



Abundance Ion 92.00 (91.70 to 92.70): VN060593.D (-2510) (-)

Ion 91.00 (90.70 to 91.70): VN060593.D (-2510) (-)



#62

4-Bromofluorobenzene

Concen: 49.989 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.00 min

Lab File: VN060593.D

Acq: 18 Mar 2020 15:40

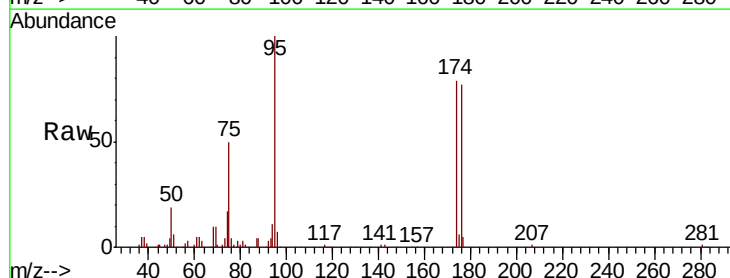
Tgt Ion: 95 Resp: 145116

Ion Ratio Lower Upper

95 100

174 77.3 0.0 157.6

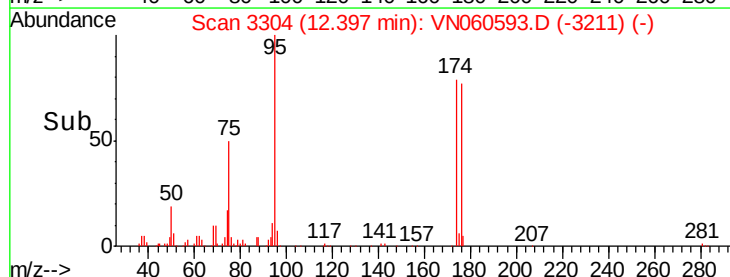
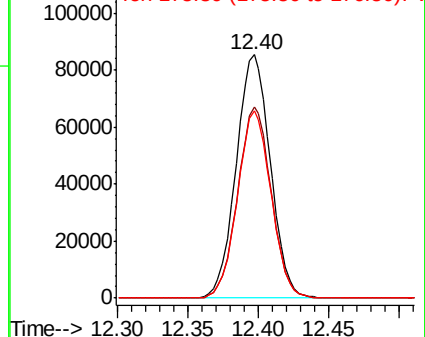
176 75.7 0.0 150.6



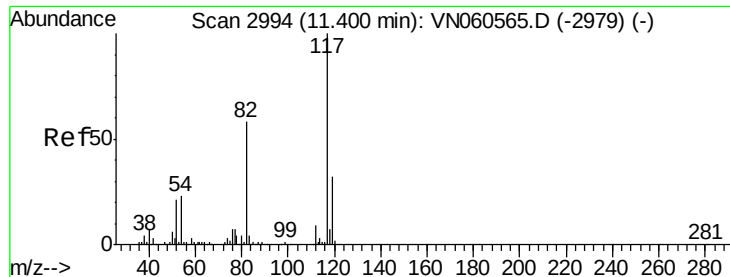
Abundance Ion 94.90 (94.60 to 95.60): VN060593.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN060593.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN060593.D (-3211) (-)



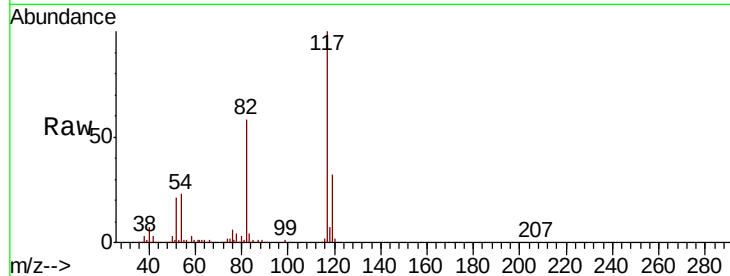




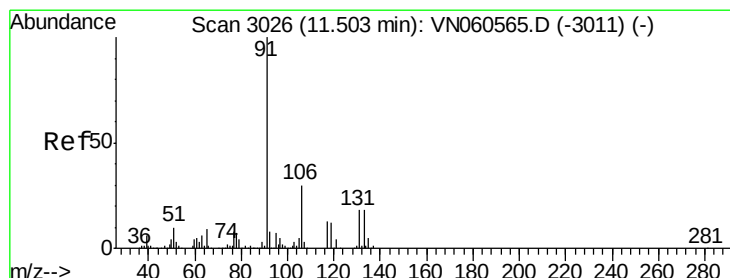
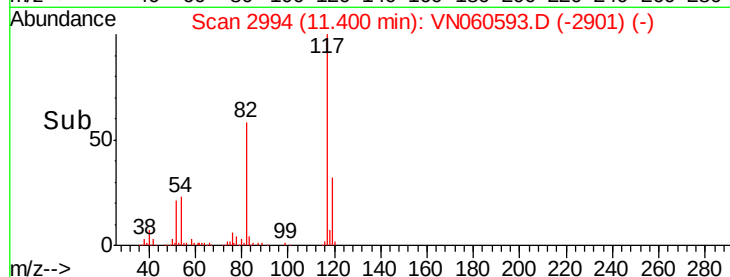
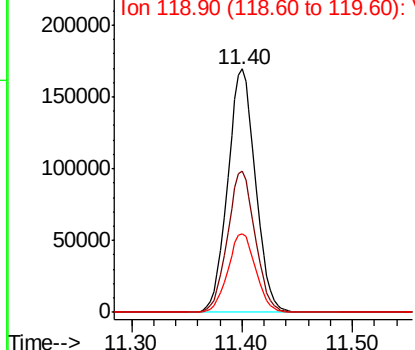
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.40 min Scan# 2994  
Delta R.T. -0.00 min  
Lab File: VN060593.D  
Acq: 18 Mar 2020 15:40

Instrument :  
MSVOA\_N  
ClientSampled :  
MH-720

Tot Ion:117 Resp: 294766  
Ion Ratio Lower Upper  
117 100  
82 57.9 46.7 70.1  
119 32.5 25.5 38.3

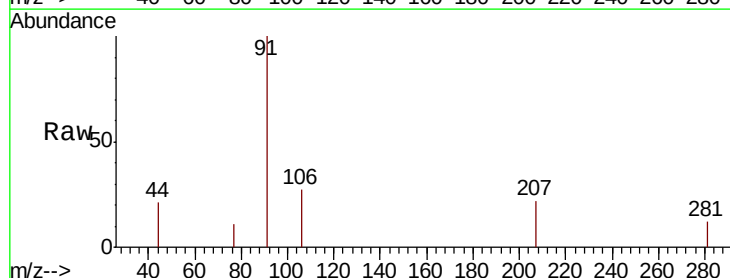


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VN  
Ion 118.90 (118.60 to 119.60): V

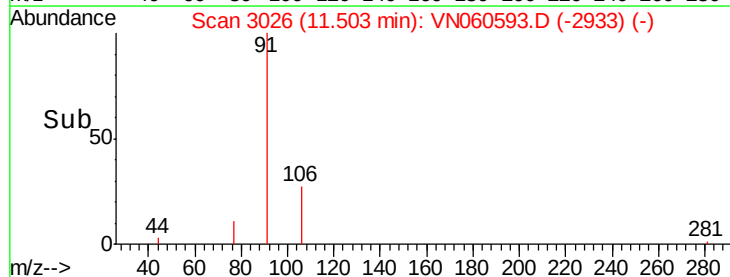
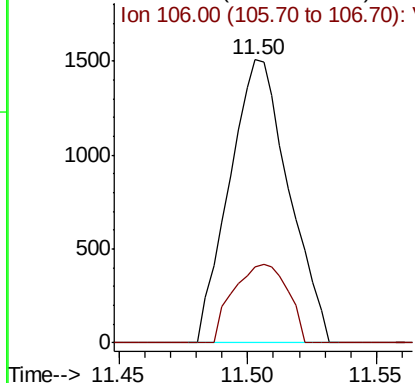


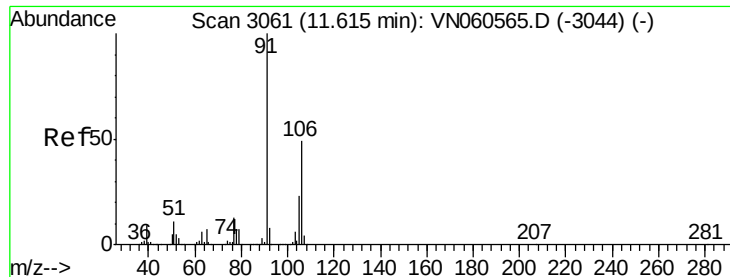
#67  
Ethyl Benzene  
Concen: 0.222 ug/l  
RT: 11.50 min Scan# 3026  
Delta R.T. -0.00 min  
Lab File: VN060593.D  
Acq: 18 Mar 2020 15:40

Tgt Ion: 91 Resp: 2416  
Ion Ratio Lower Upper  
91 100  
106 26.9 24.2 36.2



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

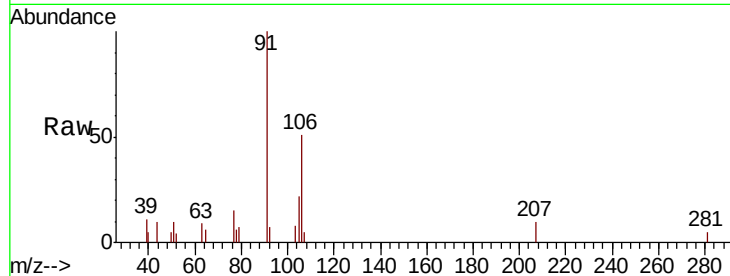




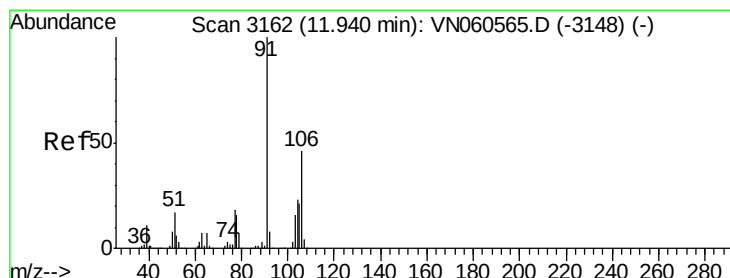
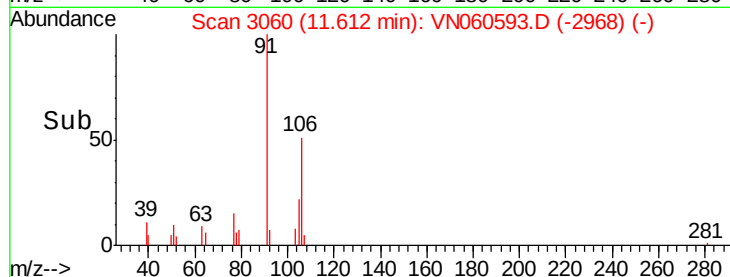
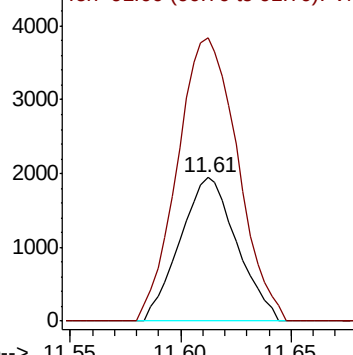
#68  
m/p-Xylenes  
Concen: 0.861 ug/l  
RT: 11.61 min Scan# 3060  
Delta R.T. -0.00 min  
Lab File: VN060593.D  
Acq: 18 Mar 2020 15:40

Instrument :  
MSVOA\_N  
ClientSampled :  
MH-720

Tot Ion:106 Resp: 3477  
Ion Ratio Lower Upper  
106 100  
91 209.3 165.0 247.4

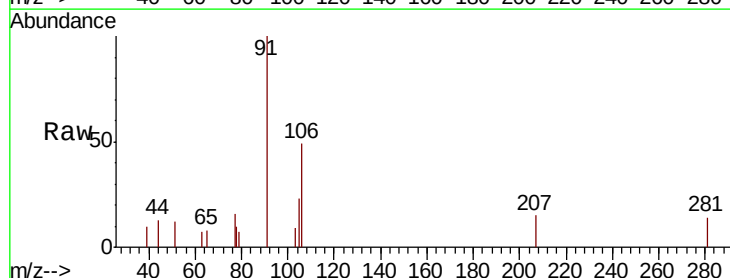


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VN

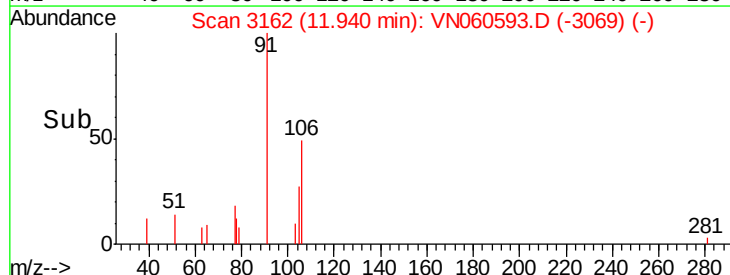
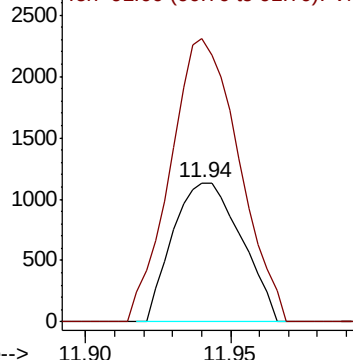


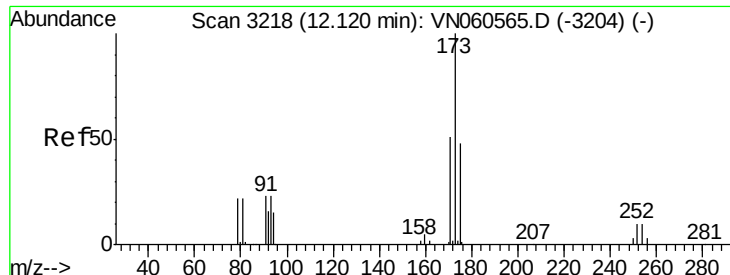
#69  
o-Xylene  
Concen: 0.481 ug/l  
RT: 11.94 min Scan# 3162  
Delta R.T. -0.00 min  
Lab File: VN060593.D  
Acq: 18 Mar 2020 15:40

Tgt Ion:106 Resp: 1856  
Ion Ratio Lower Upper  
106 100  
91 204.6 109.5 328.4



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

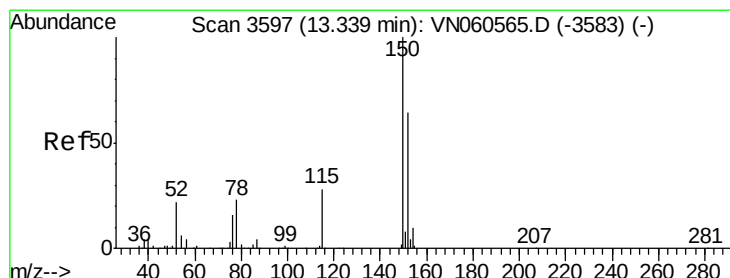
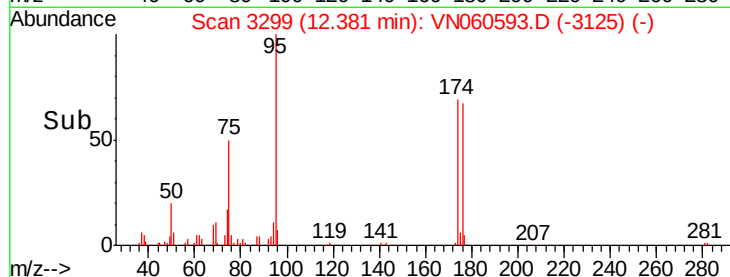
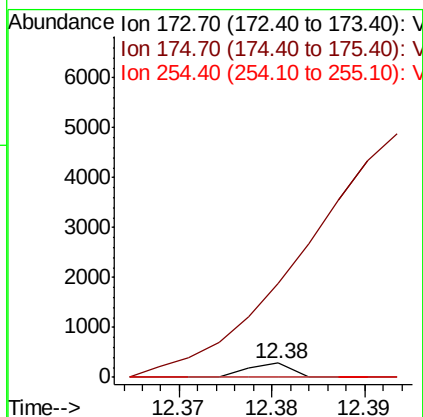
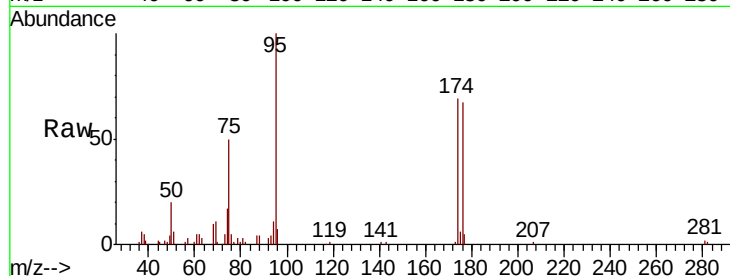




#71  
Bromoform  
Concen: 1.730 ug/l  
RT: 12.38 min Scan# 3299  
Delta R.T. 0.26 min  
Lab File: VN060593.D  
Acq: 18 Mar 2020 15:40

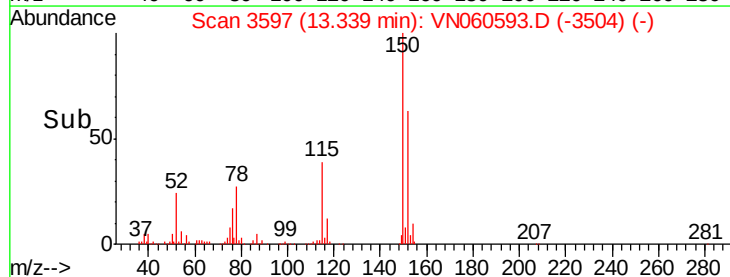
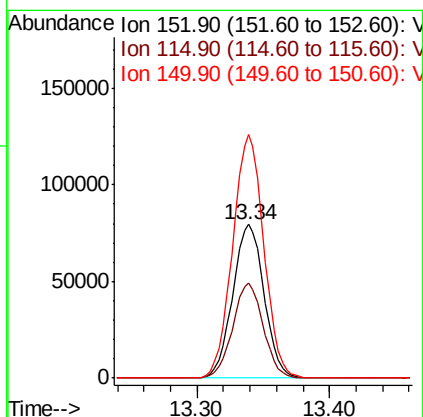
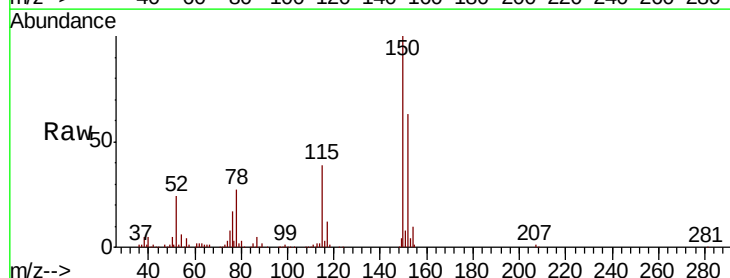
Instrument :  
MSVOA\_N  
ClientSampled :  
MH-720

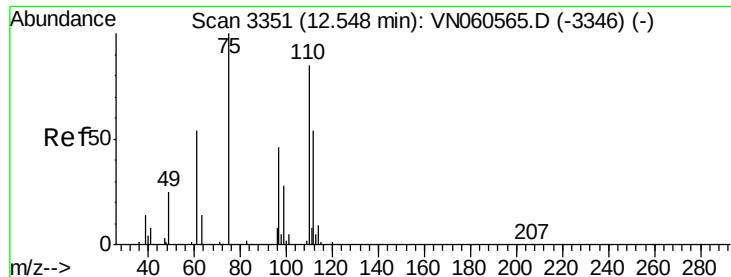
Tot Ion:173 Resp: 91  
Ion Ratio Lower Upper  
173 100  
175 7753.8 24.1 72.4#  
254 0.0 0.0 0.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.34 min Scan# 3597  
Delta R.T. -0.00 min  
Lab File: VN060593.D  
Acq: 18 Mar 2020 15:40

Tgt Ion:152 Resp: 130513  
Ion Ratio Lower Upper  
152 100  
115 60.3 30.2 90.6  
150 157.2 0.0 350.2

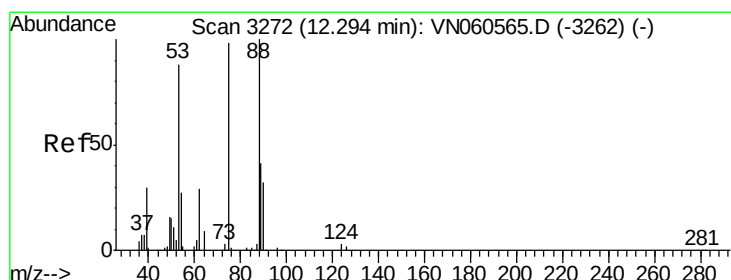
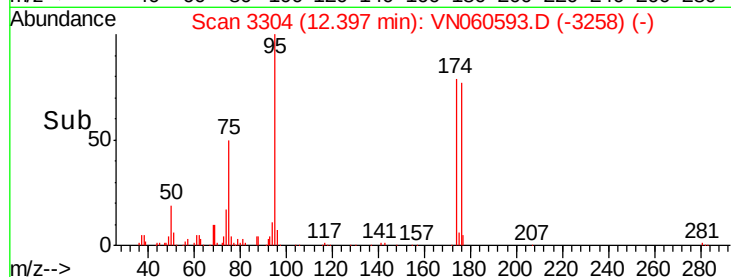
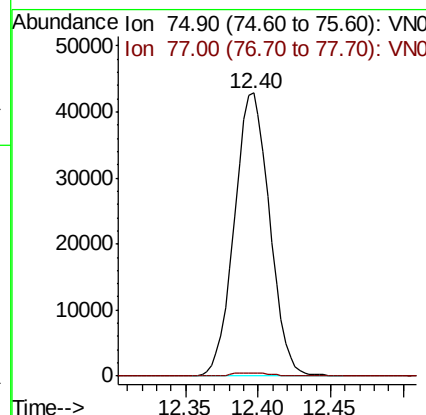
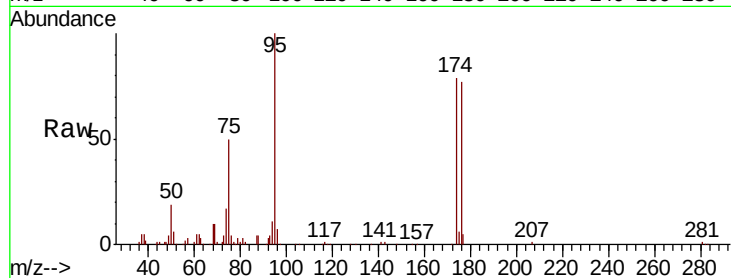




#76  
 1,2,3-Trichloropropane  
 Concen: 25.699 ug/l  
 RT: 12.40 min Scan# 3304  
 Delta R.T. -0.15 min  
 Lab File: VN060593.D  
 Acq: 18 Mar 2020 15:40

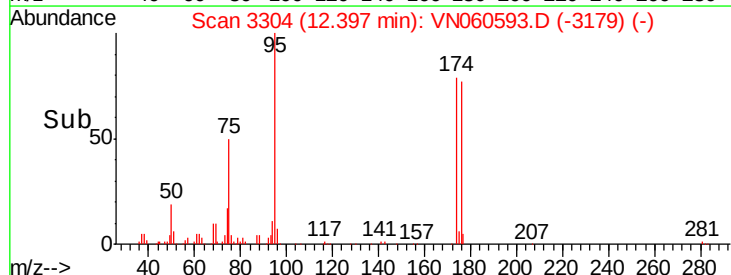
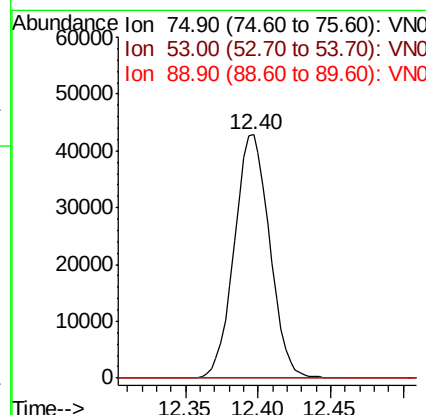
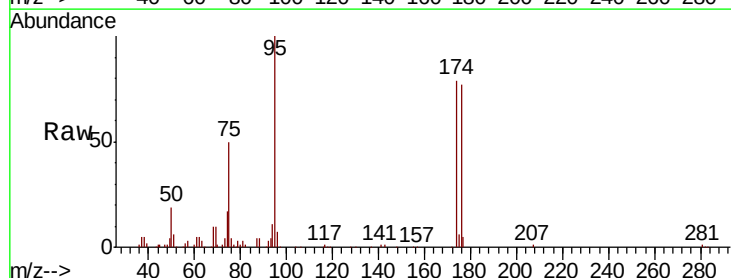
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MH-720

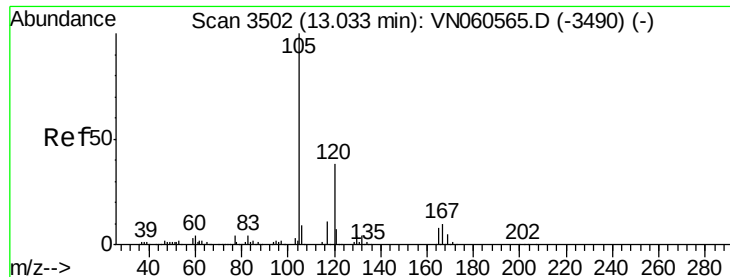
Tot Ion: 75 Resp: 72373  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 0.0 0.0#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 66.002 ug/l  
 RT: 12.40 min Scan# 3304  
 Delta R.T. 0.10 min  
 Lab File: VN060593.D  
 Acq: 18 Mar 2020 15:40

Tgt Ion: 75 Resp: 72373  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 73.0 109.4#  
 89 0.0 34.8 52.2#





#84

1,2,4-Trimethylbenzene

Concen: 0.486 ug/l

RT: 13.04 min Scan# 3503

Delta R.T. 0.00 min

Lab File: VN060593.D

Acq: 18 Mar 2020 15:40

Instrument :

MSVOA\_N

ClientSampleId :

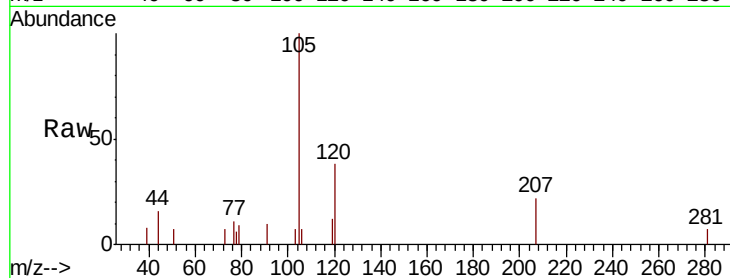
MH-720

Tot Ion:105 Resp: 3993

Ion Ratio Lower Upper

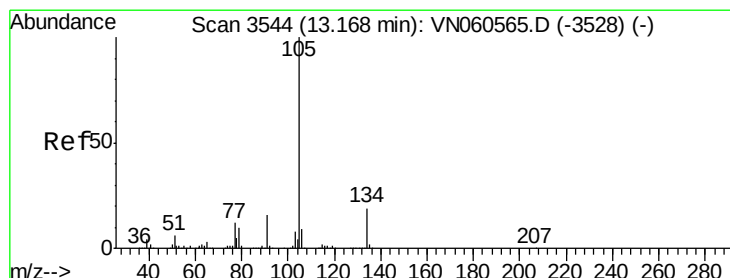
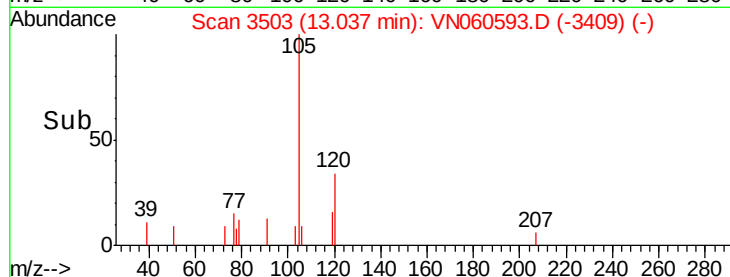
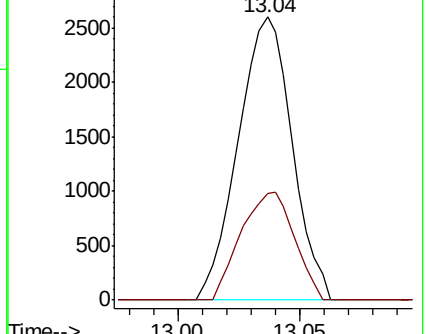
105 100

120 37.7 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: 0.431 ug/l

RT: 13.04 min Scan# 3503

Delta R.T. -0.13 min

Lab File: VN060593.D

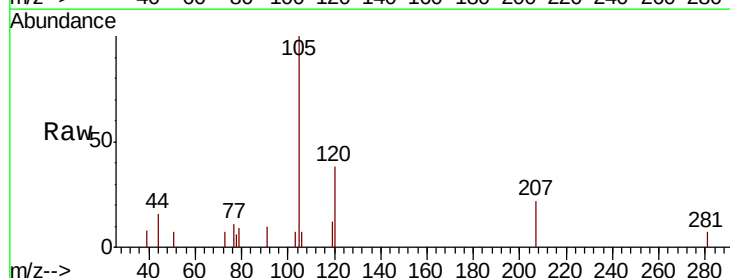
Acq: 18 Mar 2020 15:40

Tgt Ion:105 Resp: 3993

Ion Ratio Lower Upper

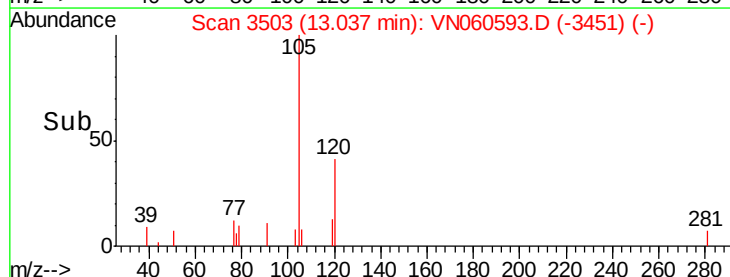
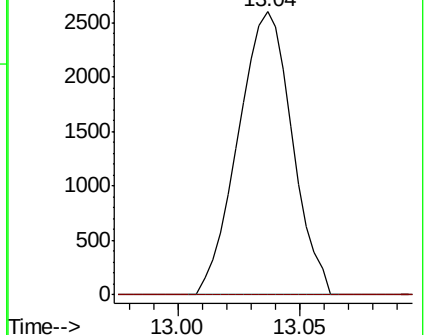
105 100

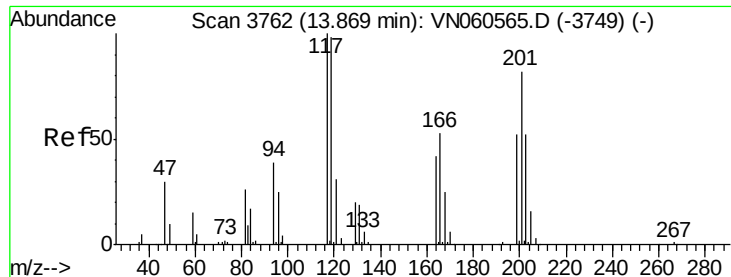
134 0.0 9.6 28.8#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V





#90

Hexachloroethane

Concen: 0.396 ug/l

RT: 13.99 min Scan# 3801

Delta R.T. 0.13 min

Lab File: VN060593.D

Acq: 18 Mar 2020 15:40

Instrument :

MSVOA\_N

ClientSampleId :

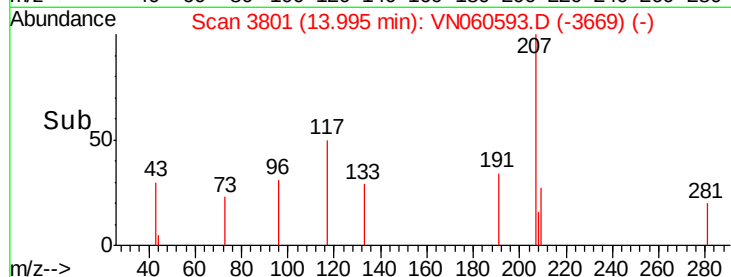
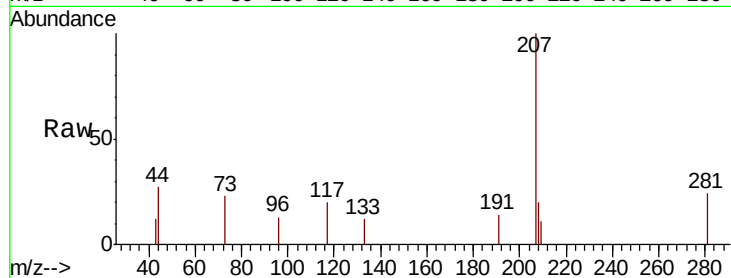
MH-720

Tot Ion:117 Resp: 479

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

