

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN073120\  
 Data File : VN062707.D  
 Acq On : 1 Aug 2020 00:46  
 Operator : JC/MD  
 Sample : L3518-21  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 39 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TP-8

Quant Time: Aug 01 06:12:30 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N072120W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 21 18:48:59 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 134939   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 239401   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 239683   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 82747    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.99  | 65   | 115689   | 55.19 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 110.38% |          |
| 35) Dibromofluoromethane    | 7.55  | 113  | 80847    | 51.41 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.82% |          |
| 50) Toluene-d8              | 10.06 | 98   | 313887   | 50.03 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.06% |          |
| 62) 4-Bromofluorobenzene    | 12.38 | 95   | 113535   | 49.49 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.98%  |          |

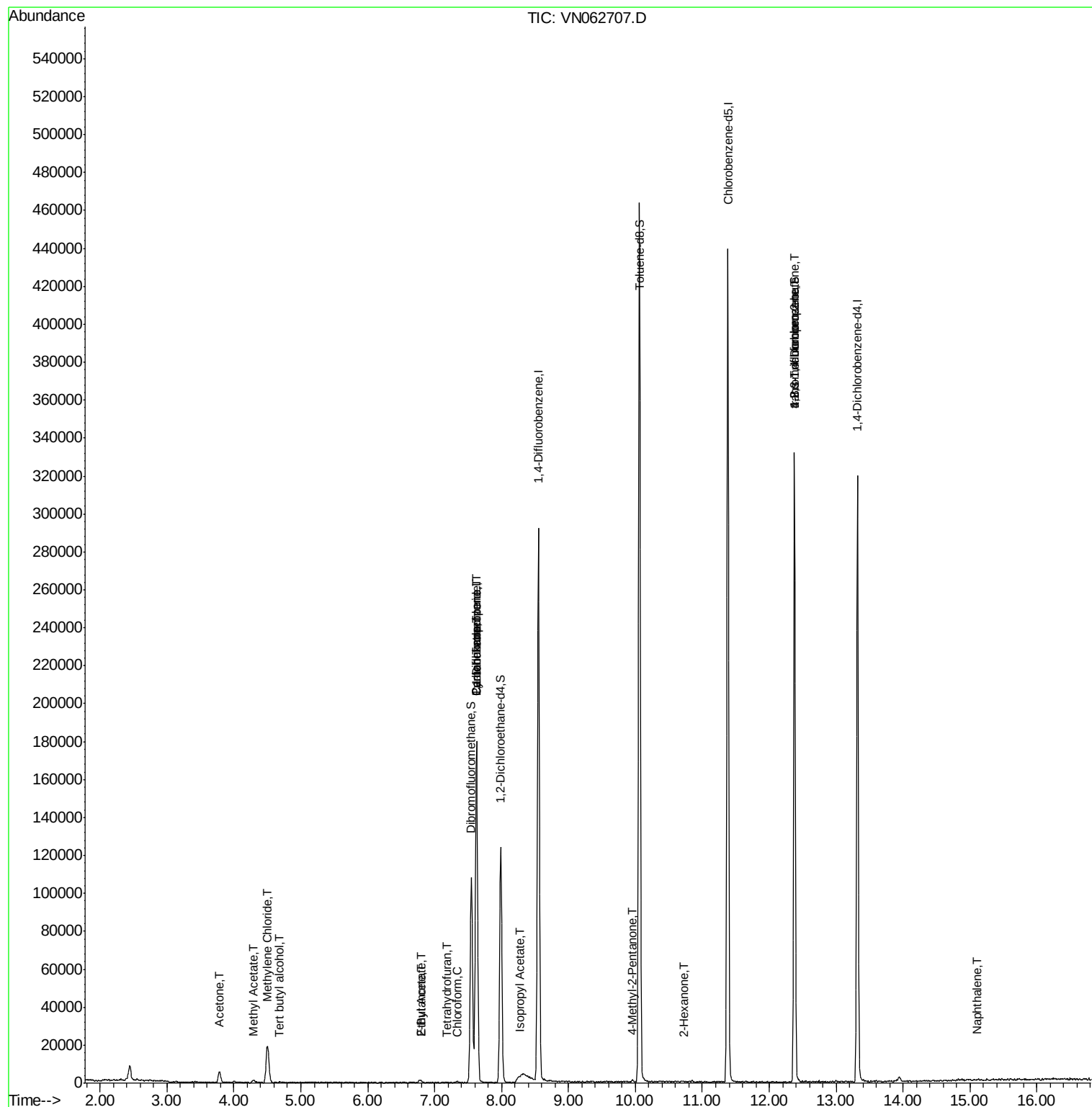
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 11) Tert butyl alcohol         | 4.69  | 59   | 159      | 0.477  | ug/l # | 73     |
| 16) Acetone                    | 3.78  | 43   | 9646     | 12.228 | ug/l   | 98     |
| 18) Methyl Acetate             | 4.29  | 43   | 2763     | 1.384  | ug/l # | 77     |
| 20) Methylene Chloride         | 4.50  | 84   | 14806    | 7.826  | ug/l   | 93     |
| 25) 2-Butanone                 | 6.80  | 43   | 1285     | 1.070  | ug/l # | 52     |
| 29) Tetrahydrofuran            | 7.18  | 42   | 436      | 0.536  | ug/l # | 38     |
| 30) Chloroform                 | 7.34  | 83   | 793      | 0.249  | ug/l   | 84     |
| 31) Cyclohexane                | 7.62  | 56   | 3331     | 1.078  | ug/l # | 9      |
| 36) 1,1-Dichloropropene        | 7.63  | 75   | 11228    | 4.400  | ug/l # | 47     |
| 37) Ethyl Acetate              | 6.80  | 43   | 1285     | 0.467  | ug/l # | 69     |
| 38) Carbon Tetrachloride       | 7.63  | 117  | 14427    | 5.882  | ug/l # | 17     |
| 43) Isopropyl Acetate          | 8.26  | 43   | 3177     | 0.716  | ug/l # | 55     |
| 51) 4-Methyl-2-Pentanone       | 9.96  | 43   | 1183     | 0.446  | ug/l # | 58     |
| 59) 2-Hexanone                 | 10.73 | 43   | 165      | 3.038  | ug/l # | 26     |
| 76) 1,2,3-Trichloropropane     | 12.38 | 75   | 62743    | 29.790 | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 62743    | 82.927 | ug/l # | 12     |
| 95) Naphthalene                | 15.11 | 128  | 811      | 3.965  | ug/l # | 69     |

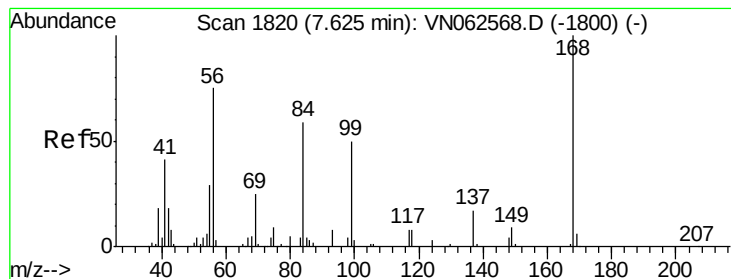
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN073120\  
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Quant Time: Aug 01 06:12:30 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N072120W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jul 21 18:48:59 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN062707.D

Acq: 1 Aug 2020 00:46

Instrument :

MSVOA\_N

ClientSampled :

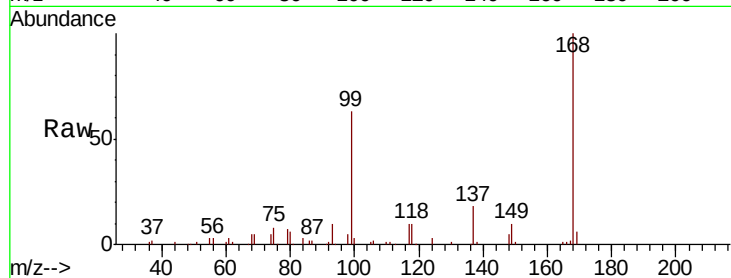
TP-8

Tot Ion:168 Resp: 134939

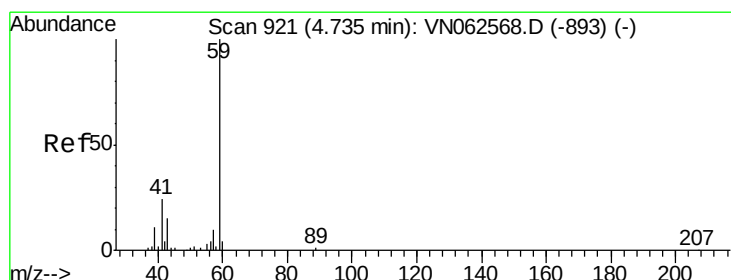
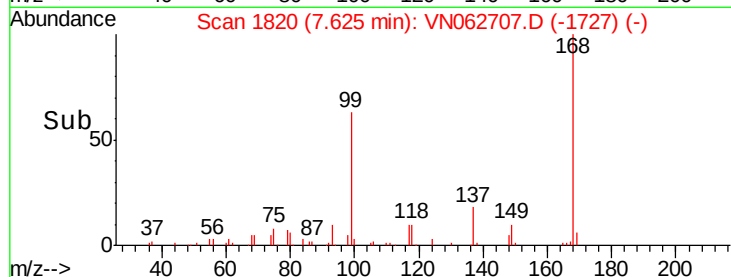
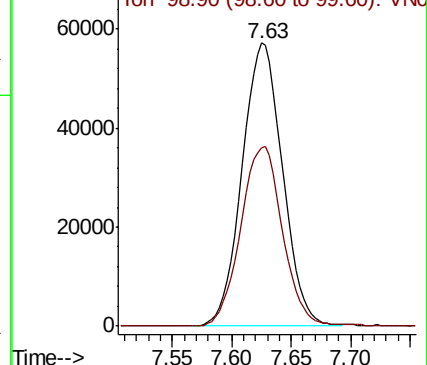
Ion Ratio Lower Upper

168 100

99 62.9 48.4 72.6



Abundance Ion 167.90 (167.60 to 168.60): VN062707.D (-1727) (-)



#11

Tert butyl alcohol

Concen: 0.477 ug/l

RT: 4.69 min Scan# 908

Delta R.T. -0.04 min

Lab File: VN062707.D

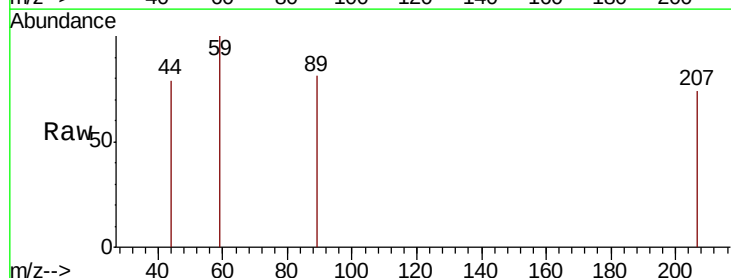
Acq: 1 Aug 2020 00:46

Tgt Ion: 59 Resp: 159

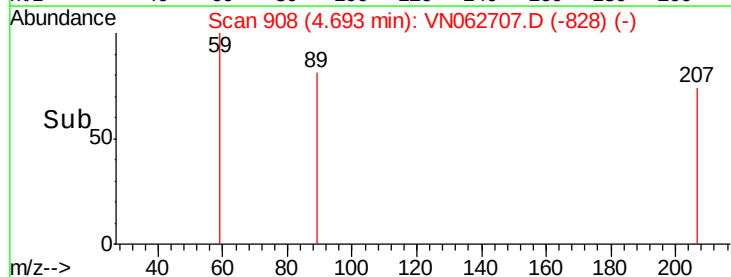
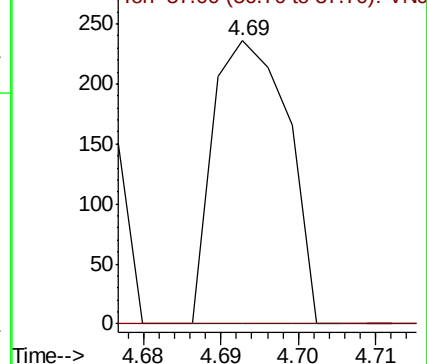
Ion Ratio Lower Upper

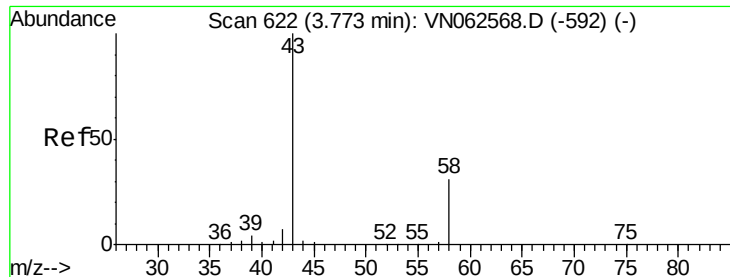
59 100

57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VN062707.D (-828) (-)





#16

Acetone

Concen: 12.228 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.01 min

Lab File: VN062707.D

Acq: 1 Aug 2020 00:46

Instrument :

MSVOA\_N

ClientSampled :

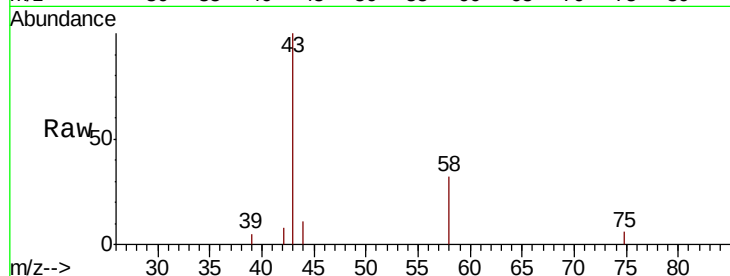
TP-8

Tot Ion: 43 Resp: 9646

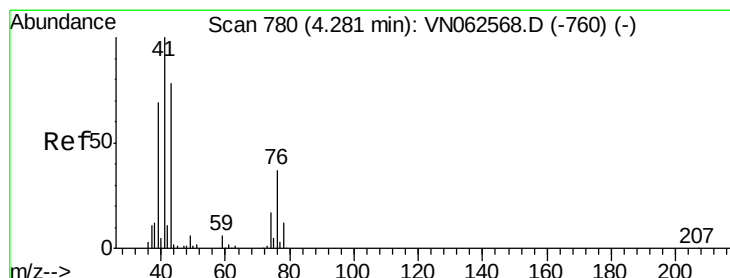
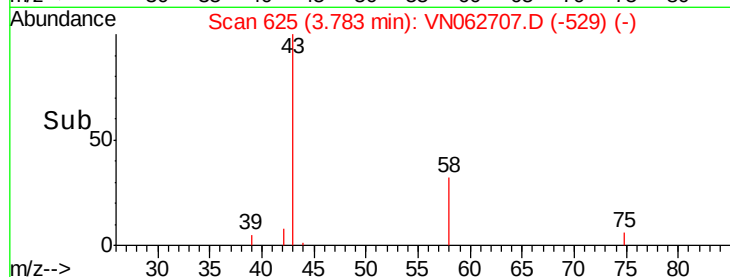
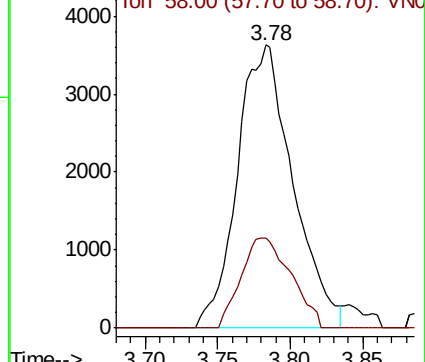
Ion Ratio Lower Upper

43 100

58 31.8 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VN062707.D (-529) (-)



#18

Methyl Acetate

Concen: 1.384 ug/l

RT: 4.29 min Scan# 782

Delta R.T. 0.01 min

Lab File: VN062707.D

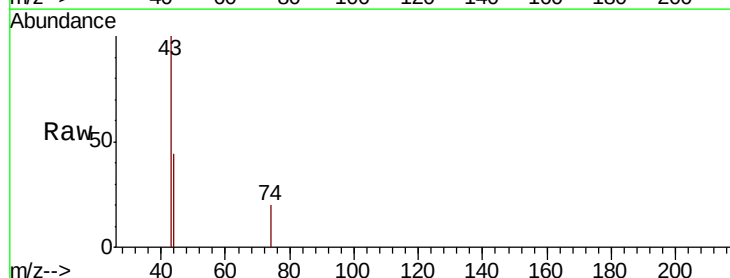
Acq: 1 Aug 2020 00:46

Tgt Ion: 43 Resp: 2763

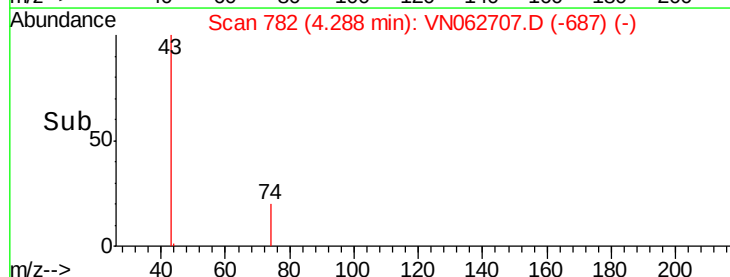
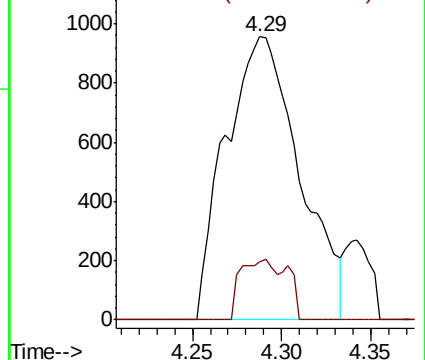
Ion Ratio Lower Upper

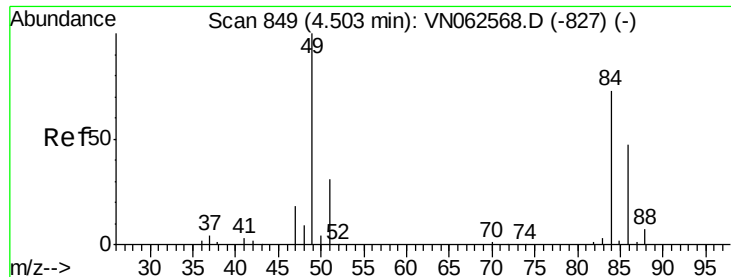
43 100

74 10.0 16.6 24.8#



Abundance Ion 43.00 (42.70 to 43.70): VN062707.D (-687) (-)

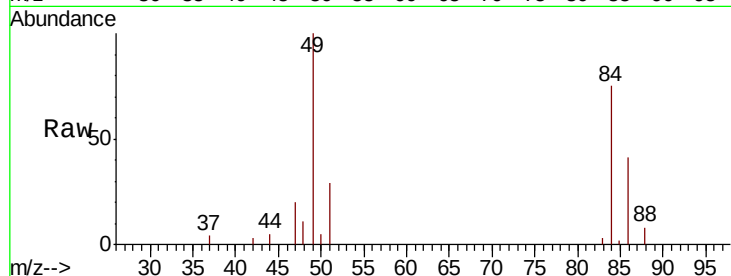




#20  
Methvlene Chloride  
Concen: 7.826 ug/l  
RT: 4.50 min Scan# 848  
Delta R.T. -0.00 min  
Lab File: VN062707.D  
Acq: 1 Aug 2020 00:46

Instrument :  
MSVOA\_N  
ClientSampleId :  
TP-8

|             |             |
|-------------|-------------|
| Tot Ion: 84 | Resp: 14806 |
| Ion Ratio   | Lower Upper |
| 84 100      |             |
| 49 129.8    | 109.4 164.0 |
| 51 39.1     | 33.6 50.4   |
| 86 54.9     | 51.4 77.2   |

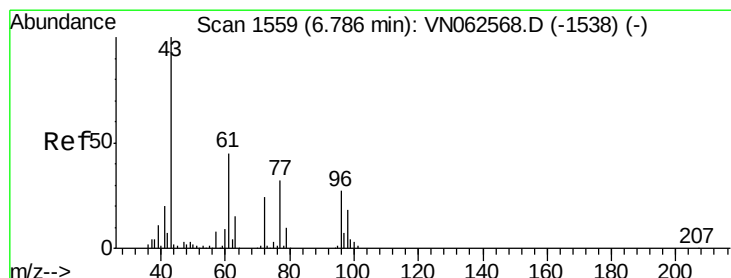
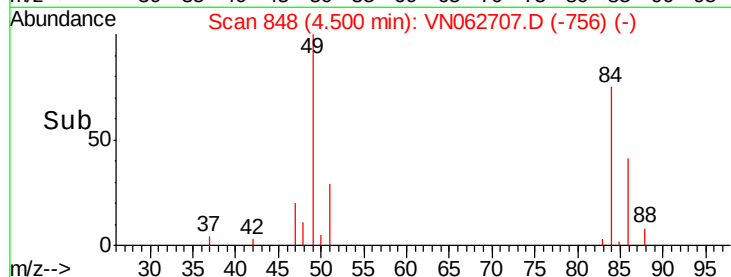
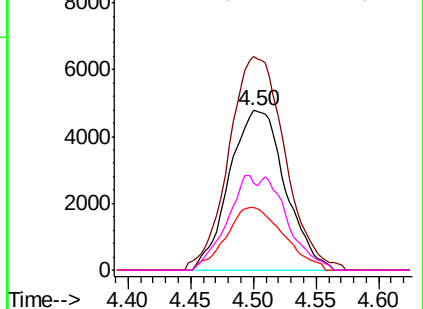


Abundance Ion 83.90 (83.60 to 84.60): VN062707.D (-1466) (-)

Ion 48.90 (48.60 to 49.60): VN062707.D (-1466) (-)

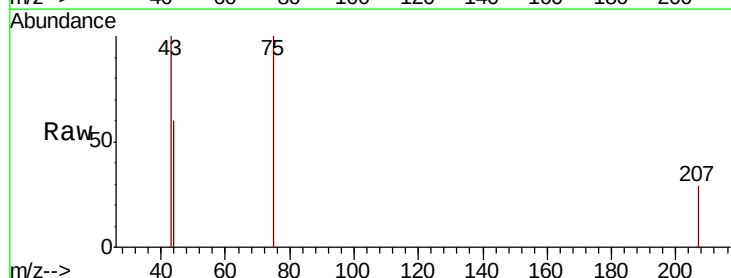
Ion 50.90 (50.60 to 51.60): VN062707.D (-1466) (-)

Ion 85.90 (85.60 to 86.60): VN062707.D (-1466) (-)



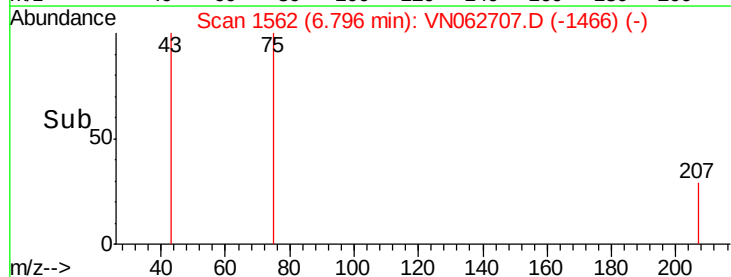
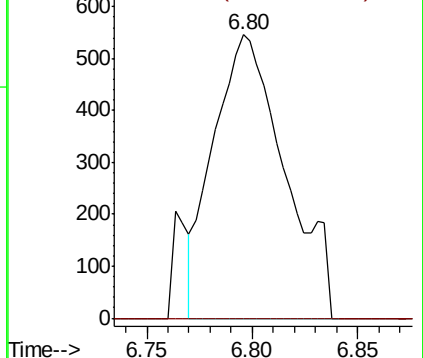
#25  
2-Butanone  
Concen: 1.070 ug/l  
RT: 6.80 min Scan# 1562  
Delta R.T. 0.01 min  
Lab File: VN062707.D  
Acq: 1 Aug 2020 00:46

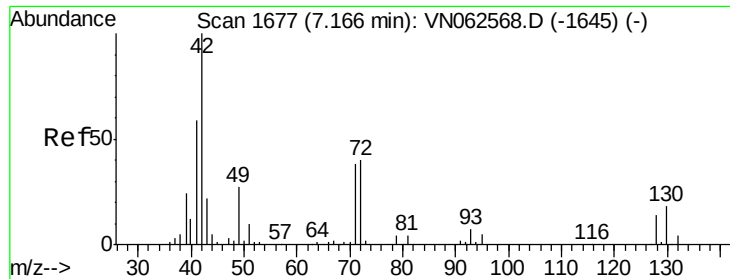
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 1285  |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 72 0.0      | 19.0 28.6#  |



Abundance Ion 43.00 (42.70 to 43.70): VN062707.D (-1466) (-)

Ion 72.00 (71.70 to 72.70): VN062707.D (-1466) (-)

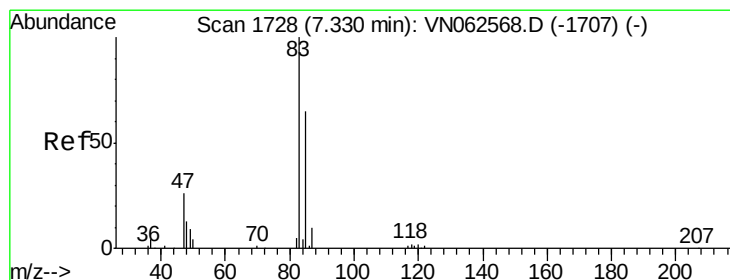
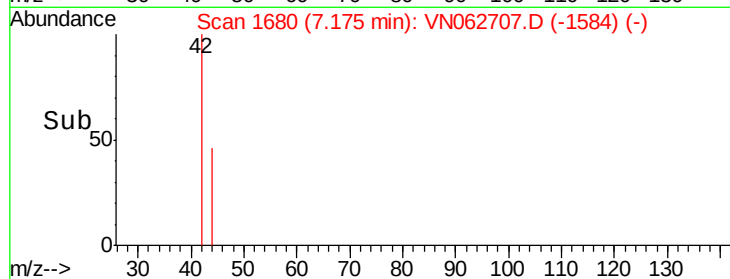
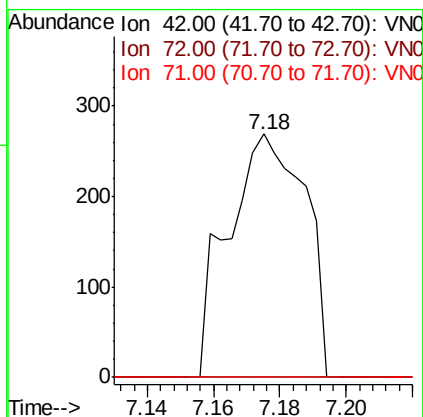
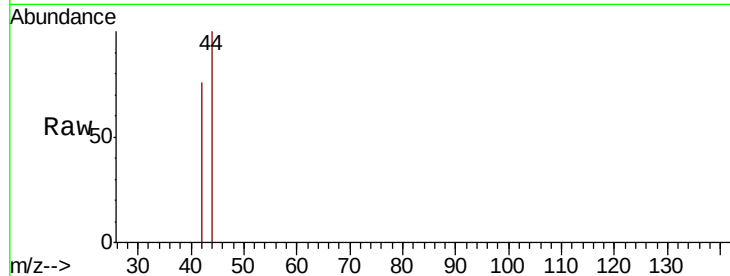




#29  
Tetrahydrofuran  
Concen: 0.536 ug/l  
RT: 7.18 min Scan# 1680  
Delta R.T. 0.01 min  
Lab File: VN062707.D  
Acq: 1 Aug 2020 00:46

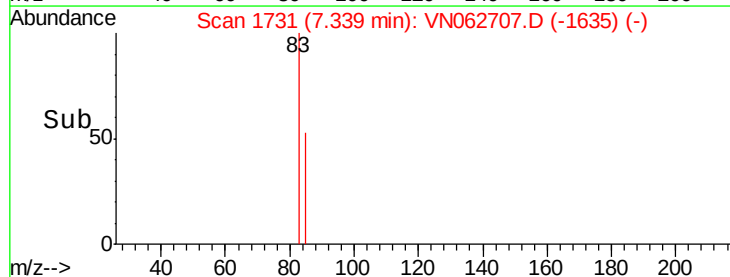
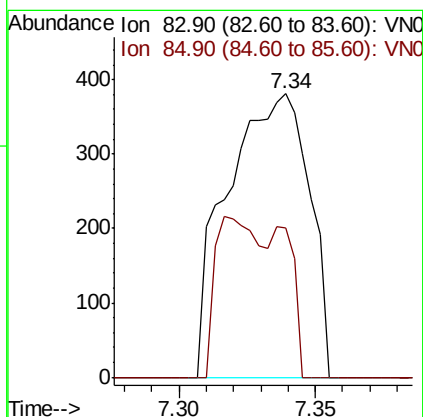
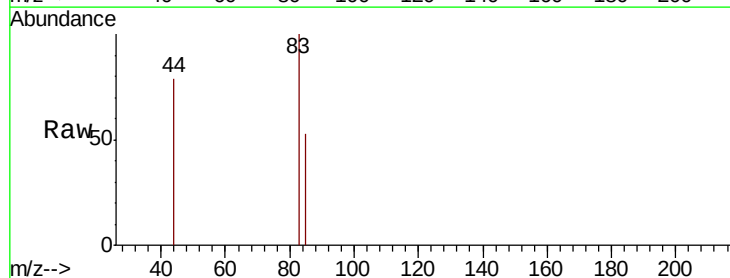
Instrument :  
MSVOA\_N  
ClientSampled :  
TP-8

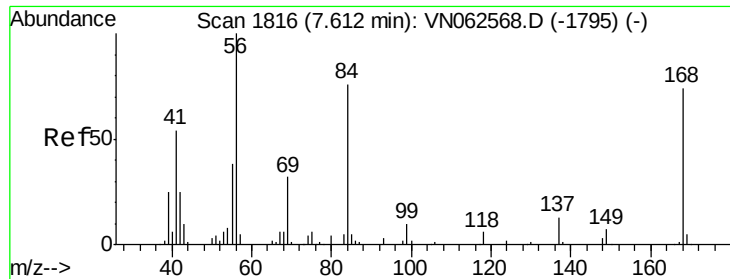
Tot Ion: 42 Resp: 436  
Ion Ratio Lower Upper  
42 100  
72 0.0 30.7 46.1#  
71 0.0 29.1 43.7#



#30  
Chloroform  
Concen: 0.249 ug/l  
RT: 7.34 min Scan# 1731  
Delta R.T. 0.01 min  
Lab File: VN062707.D  
Acq: 1 Aug 2020 00:46

Tgt Ion: 83 Resp: 793  
Ion Ratio Lower Upper  
83 100  
85 52.8 52.0 78.0

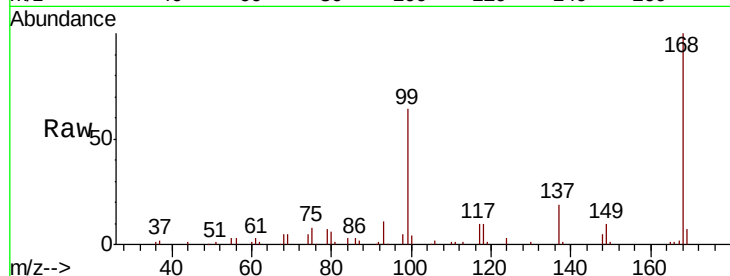




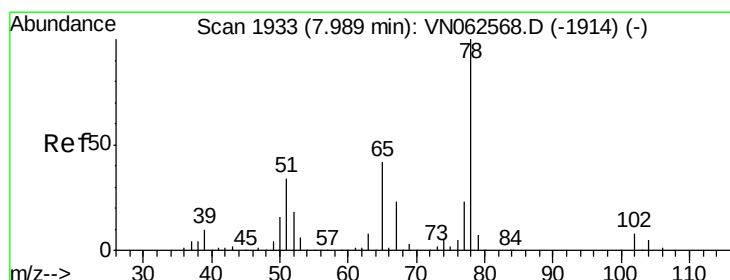
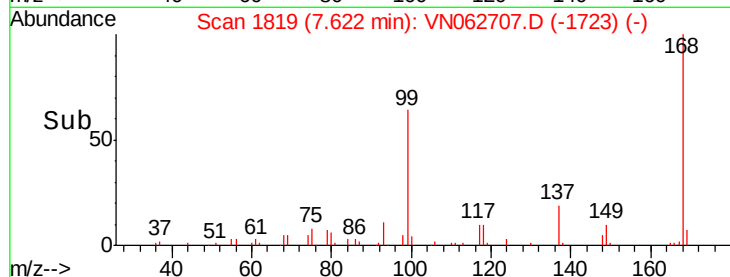
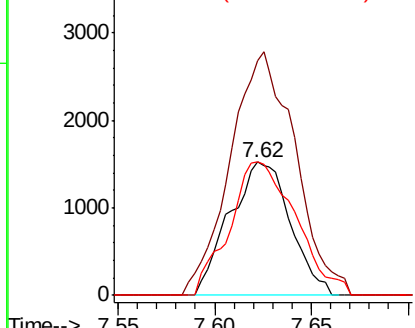
#31  
Cyclohexane  
Concen: 1.078 ug/l  
RT: 7.62 min Scan# 1819  
Delta R.T. 0.01 min  
Lab File: VN062707.D  
Acq: 1 Aug 2020 00:46

Instrument :  
MSVOA\_N  
ClientSampled :  
TP-8

Tot Ion: 56 Resp: 3331  
Ion Ratio Lower Upper  
56 100  
69 166.5 25.3 37.9#  
84 100.5 61.0 91.4#

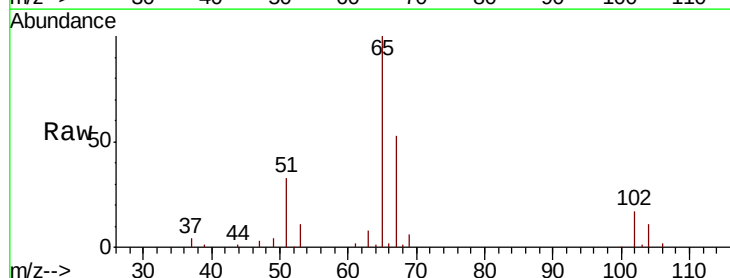


Abundance Ion 56.00 (55.70 to 56.70): VN0  
Ion 69.00 (68.70 to 69.70): VN0  
Ion 84.00 (83.70 to 84.70): VN0

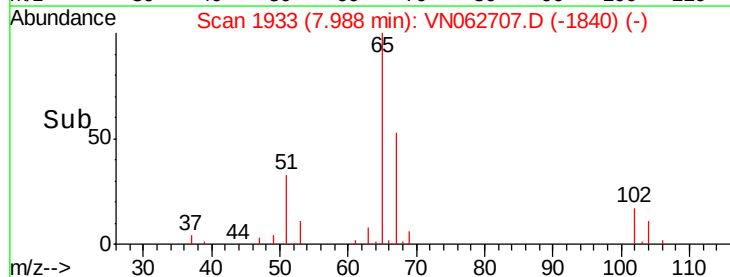
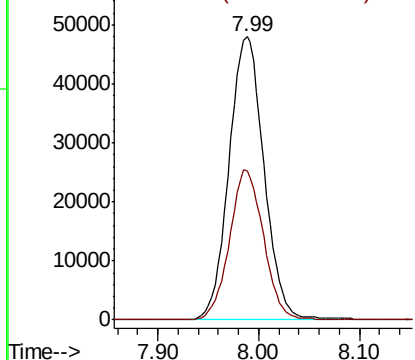


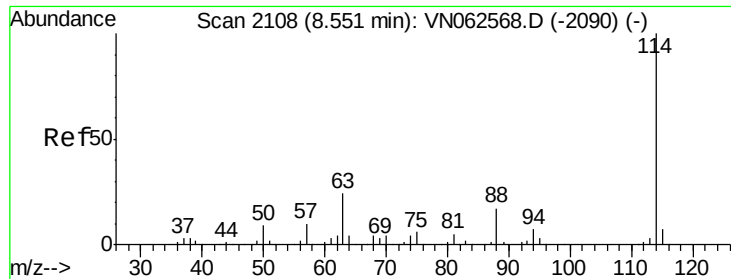
#33  
1,2-Dichloroethane-d4  
Concen: 55.190 ug/l  
RT: 7.99 min Scan# 1933  
Delta R.T. -0.00 min  
Lab File: VN062707.D  
Acq: 1 Aug 2020 00:46

Tgt Ion: 65 Resp: 115689  
Ion Ratio Lower Upper  
65 100  
67 51.3 0.0 106.0



Abundance Ion 64.90 (64.60 to 65.60): VN0  
Ion 66.90 (66.60 to 67.60): VN0

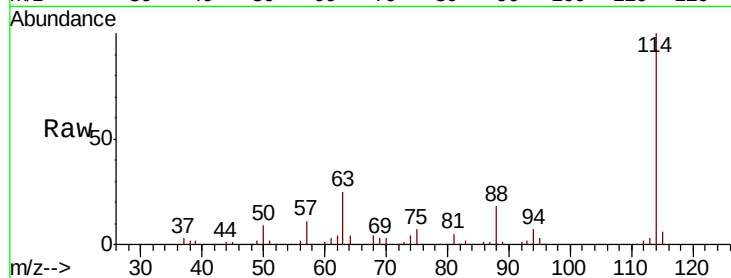




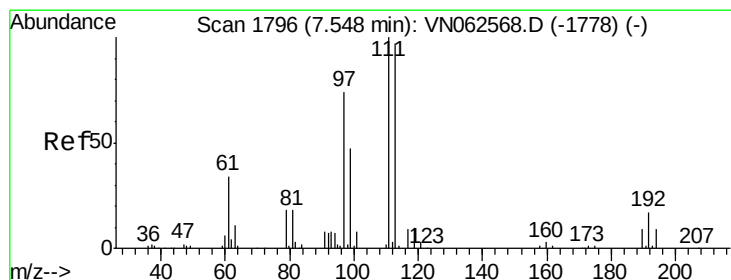
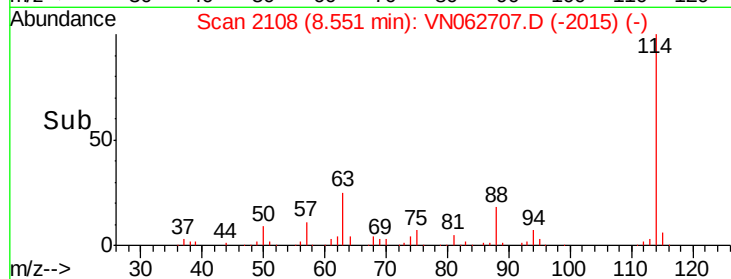
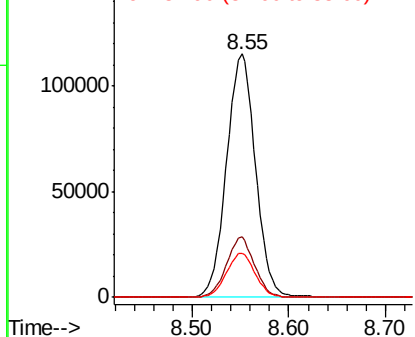
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.55 min Scan# 2108  
 Delta R.T. -0.00 min  
 Lab File: VN062707.D  
 Acq: 1 Aug 2020 00:46

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TP-8

Tot Ion:114 Resp: 239401  
 Ion Ratio Lower Upper  
 114 100  
 63 24.7 0.0 48.4  
 88 18.2 0.0 33.8

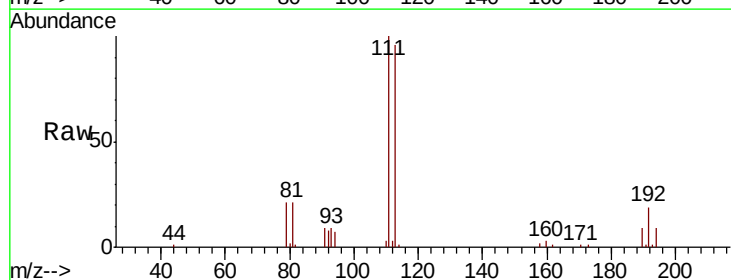


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

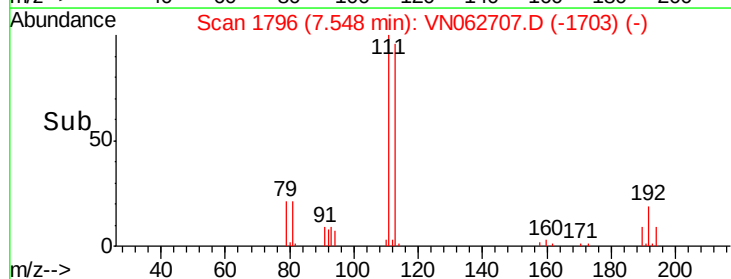
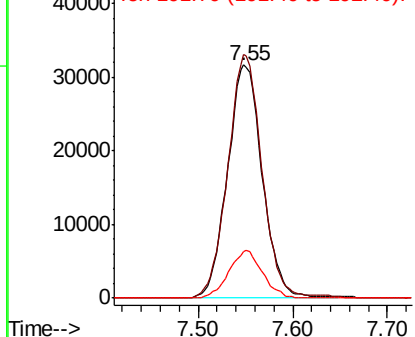


#35  
 Dibromofluoromethane  
 Concen: 51.412 ug/l  
 RT: 7.55 min Scan# 1796  
 Delta R.T. -0.00 min  
 Lab File: VN062707.D  
 Acq: 1 Aug 2020 00:46

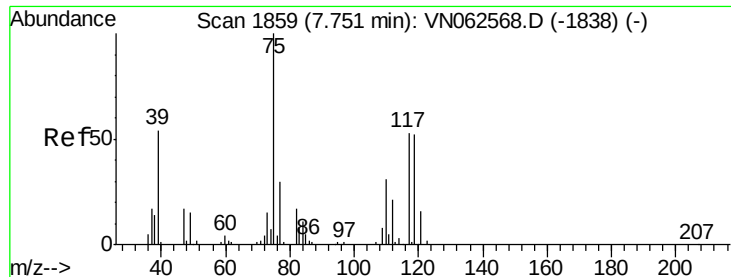
Tgt Ion:113 Resp: 80847  
 Ion Ratio Lower Upper  
 113 100  
 111 101.9 82.7 124.1  
 192 19.5 14.8 22.2



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



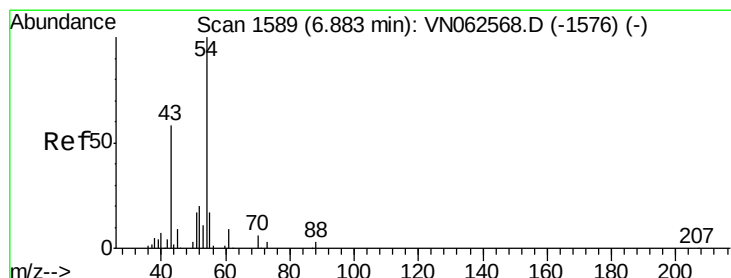
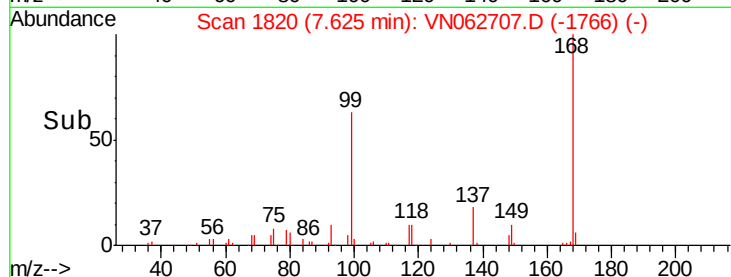
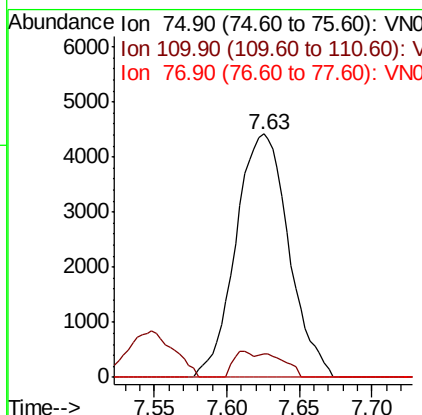
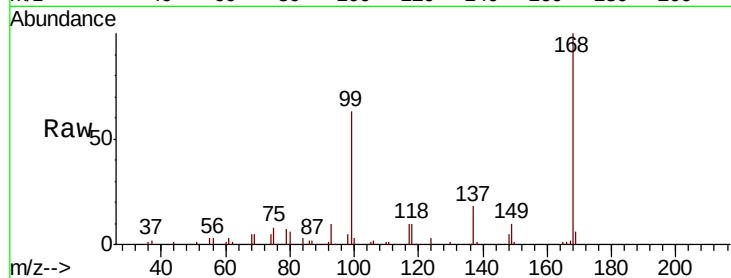




#36  
 1,1-Dichloropropene  
 Concen: 4.400 ug/l  
 RT: 7.63 min Scan# 1820  
 Delta R.T. -0.13 min  
 Lab File: VN062707.D  
 Acq: 1 Aug 2020 00:46

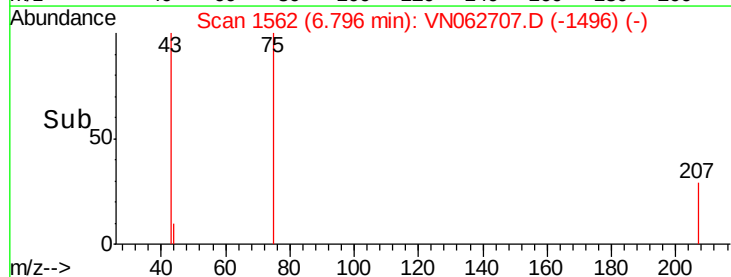
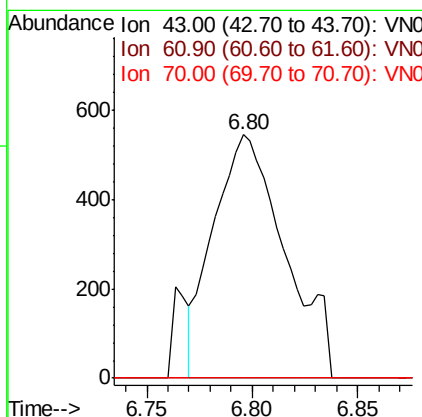
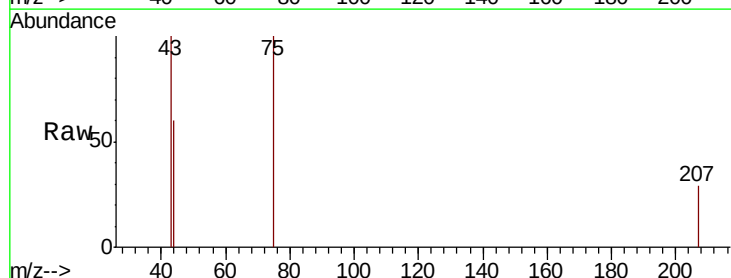
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TP-8

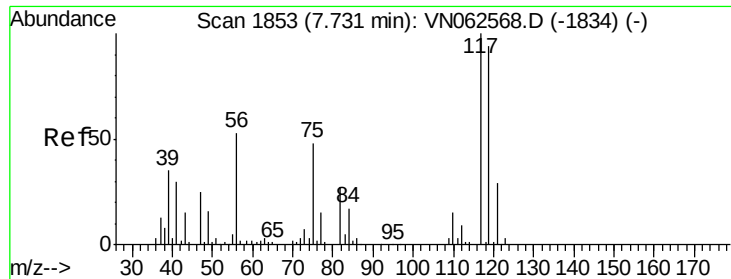
Tot Ion: 75 Resp: 11228  
 Ion Ratio Lower Upper  
 75 100  
 110 4.1 16.0 48.0#  
 77 0.0 24.6 36.8#



#37  
 Ethyl Acetate  
 Concen: 0.467 ug/l  
 RT: 6.80 min Scan# 1562  
 Delta R.T. -0.09 min  
 Lab File: VN062707.D  
 Acq: 1 Aug 2020 00:46

Tgt Ion: 43 Resp: 1285  
 Ion Ratio Lower Upper  
 43 100  
 61 0.0 11.3 16.9#  
 70 0.0 7.7 11.5#

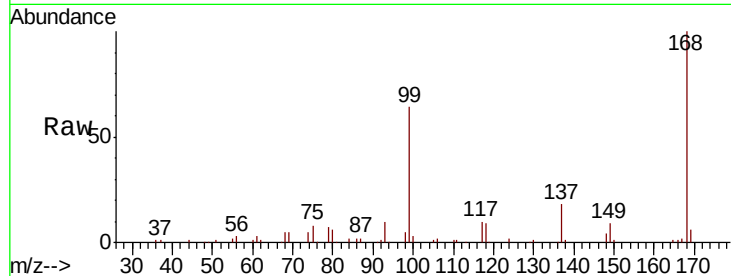




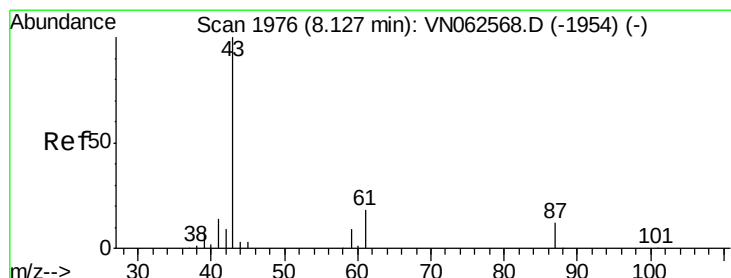
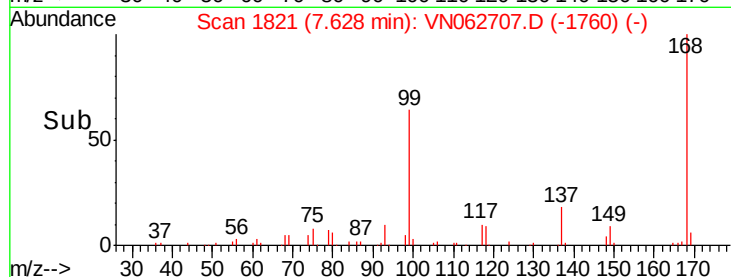
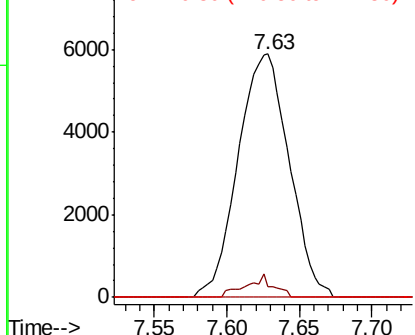
#38  
Carbon Tetrachloride  
Concen: 5.882 ug/l  
RT: 7.63 min Scan# 1821  
Delta R.T. -0.10 min  
Lab File: VN062707.D  
Acq: 1 Aug 2020 00:46

Instrument :  
MSVOA\_N  
ClientSampleId :  
TP-8

Tot Ion:117 Resp: 14427  
Ion Ratio Lower Upper  
117 100  
119 4.5 74.8 112.2#  
121 0.0 23.0 34.6#

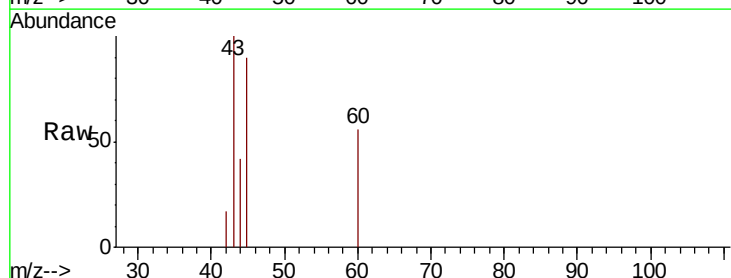


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

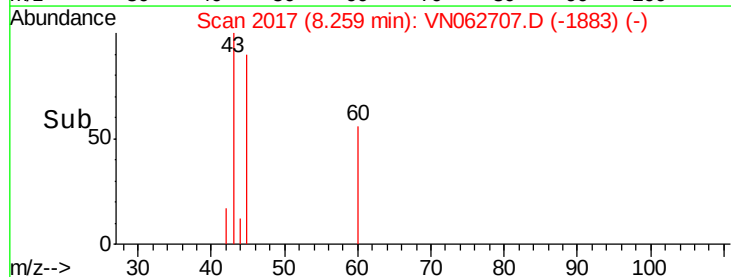
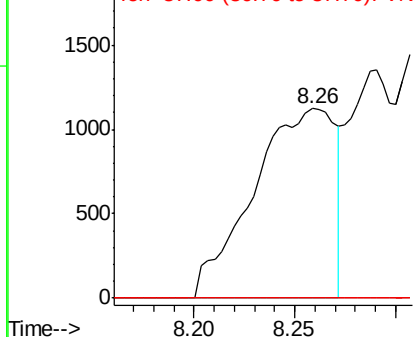


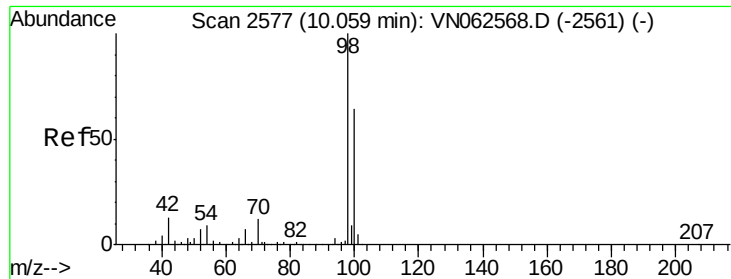
#43  
Isopropyl Acetate  
Concen: 0.716 ug/l  
RT: 8.26 min Scan# 2017  
Delta R.T. 0.13 min  
Lab File: VN062707.D  
Acq: 1 Aug 2020 00:46

Tgt Ion: 43 Resp: 3177  
Ion Ratio Lower Upper  
43 100  
61 0.0 20.8 31.2#  
87 0.0 9.2 13.8#



Abundance Ion 43.00 (42.70 to 43.70): V  
Ion 61.00 (60.70 to 61.70): V  
Ion 87.00 (86.70 to 87.70): V

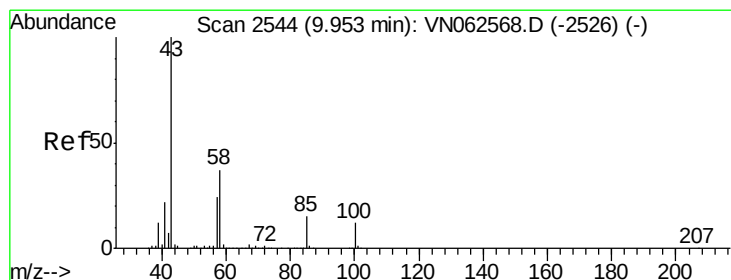
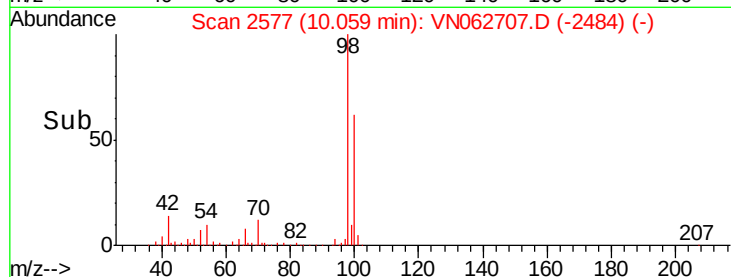
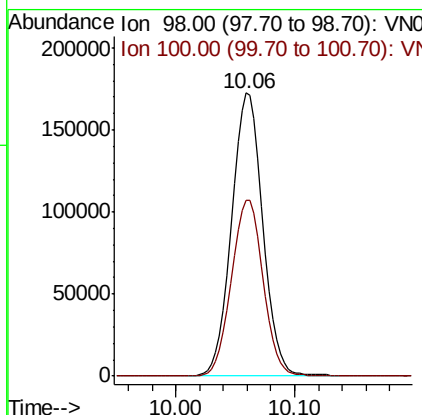
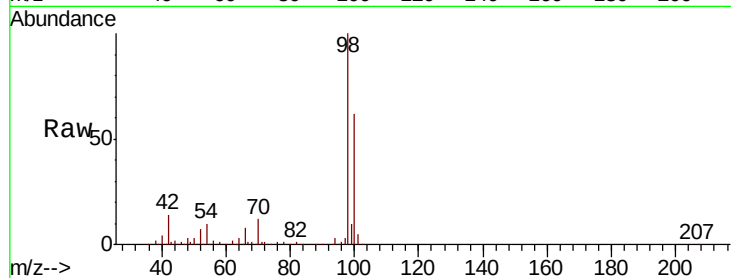




#50  
Toluene-d8  
Concen: 50.028 ug/l  
RT: 10.06 min Scan# 2577  
Delta R.T. -0.00 min  
Lab File: VN062707.D  
Acq: 1 Aug 2020 00:46

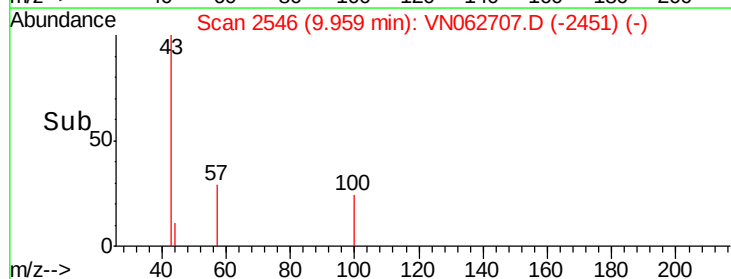
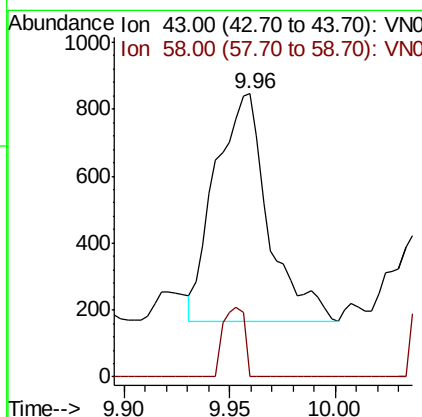
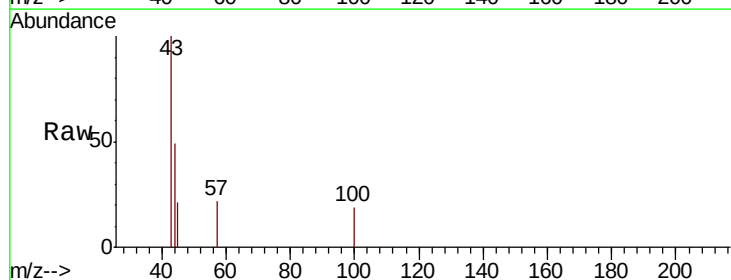
Instrument :  
MSVOA\_N  
ClientSampled :  
TP-8

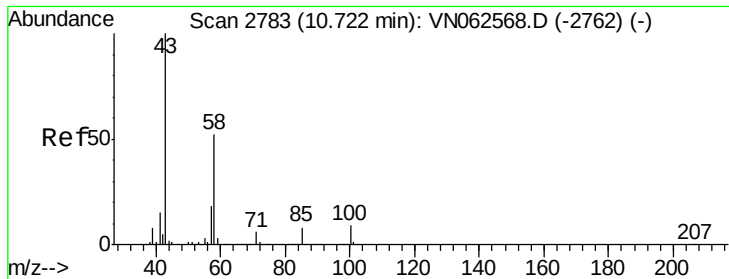
Tot Ion: 98 Resp: 313887  
Ion Ratio Lower Upper  
98 100  
100 63.1 50.9 76.3



#51  
4-Methyl-2-Pentanone  
Concen: 0.446 ug/l  
RT: 9.96 min Scan# 2546  
Delta R.T. 0.01 min  
Lab File: VN062707.D  
Acq: 1 Aug 2020 00:46

Tgt Ion: 43 Resp: 1183  
Ion Ratio Lower Upper  
43 100  
58 12.3 29.8 44.6#

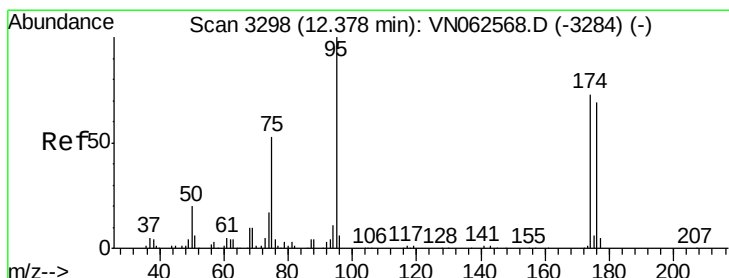
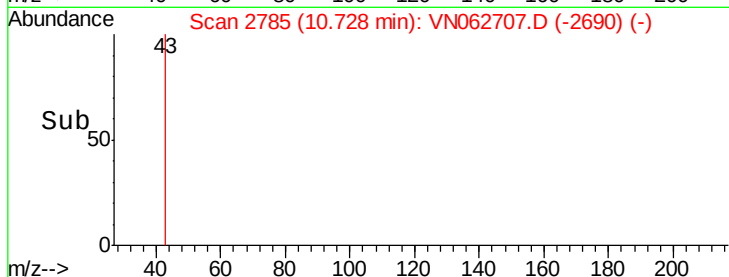
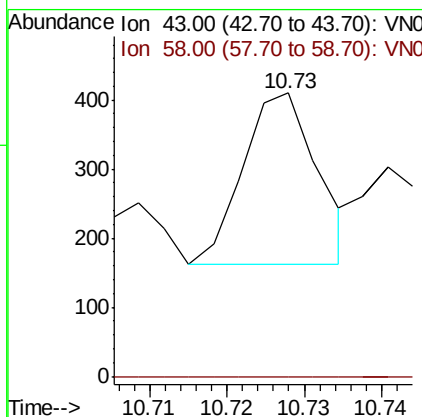
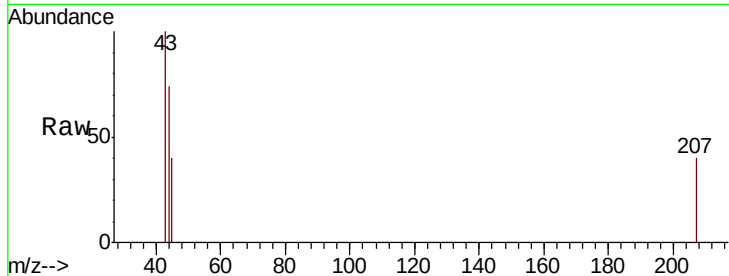




#59  
2-Hexanone  
Concen: 3.038 ug/l  
RT: 10.73 min Scan# 2785  
Delta R.T. 0.01 min  
Lab File: VN062707.D  
Acq: 1 Aug 2020 00:46

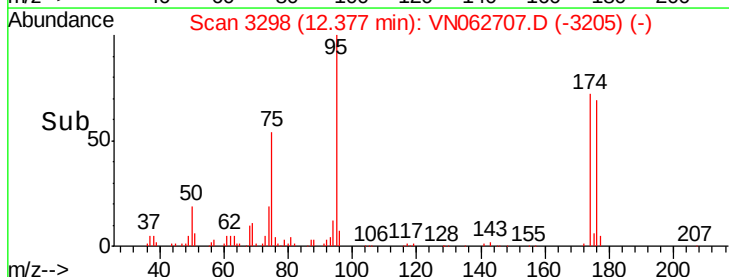
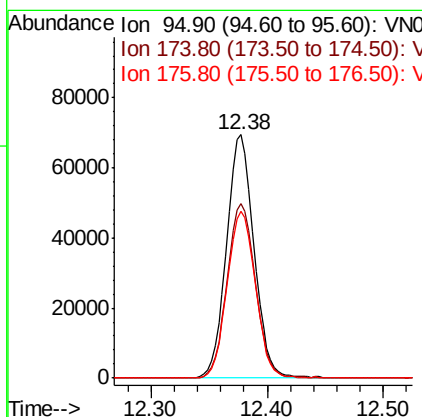
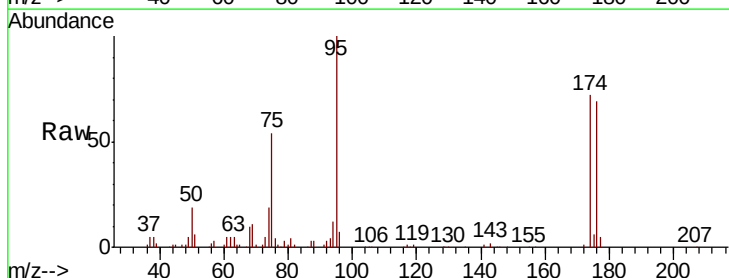
Instrument :  
MSVOA\_N  
ClientSampled :  
TP-8

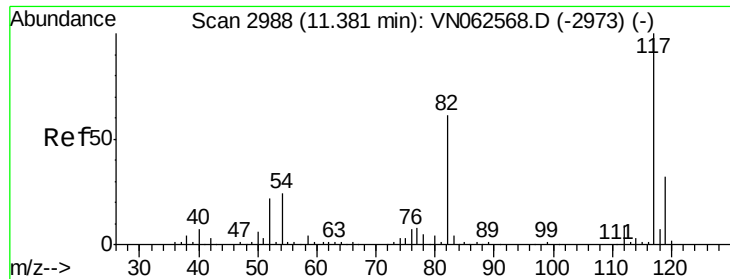
Tot Ion: 43 Resp: 165  
Ion Ratio Lower Upper  
43 100  
58 0.0 26.0 78.0#



#62  
4-Bromofluorobenzene  
Concen: 49.489 ug/l  
RT: 12.38 min Scan# 3298  
Delta R.T. -0.00 min  
Lab File: VN062707.D  
Acq: 1 Aug 2020 00:46

Tgt Ion: 95 Resp: 113535  
Ion Ratio Lower Upper  
95 100  
174 74.0 0.0 144.6  
176 70.5 0.0 139.4

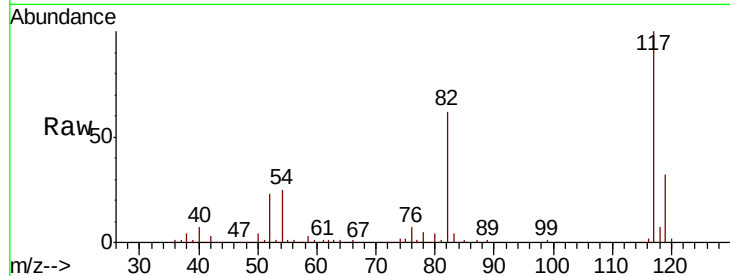




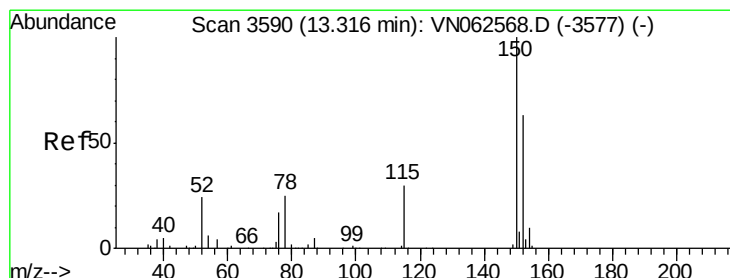
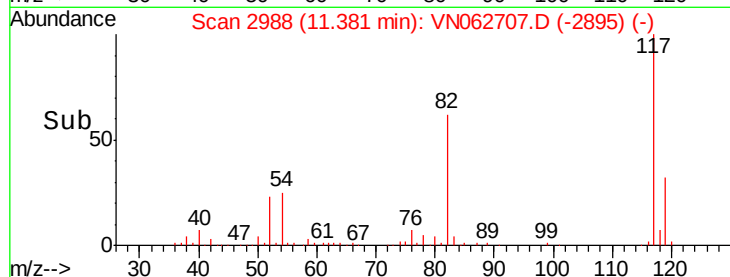
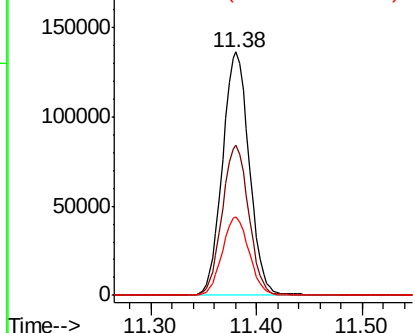
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.38 min Scan# 2988  
Delta R.T. -0.00 min  
Lab File: VN062707.D  
Acq: 1 Aug 2020 00:46

Instrument :  
MSVOA\_N  
ClientSampled :  
TP-8

Tot Ion:117 Resp: 239683  
Ion Ratio Lower Upper  
117 100  
82 61.7 49.0 73.6  
119 32.4 25.4 38.2

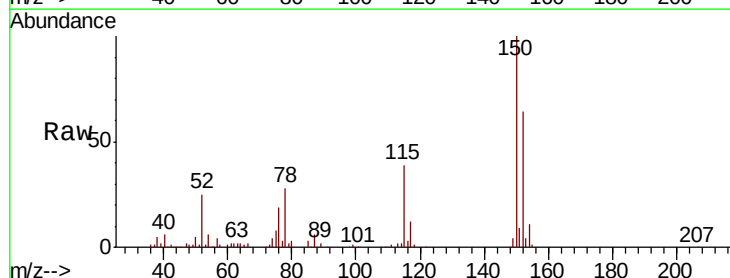


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

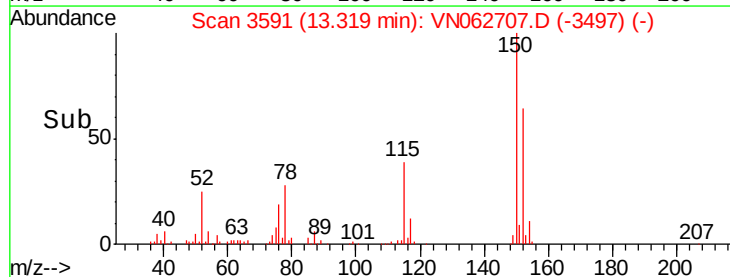
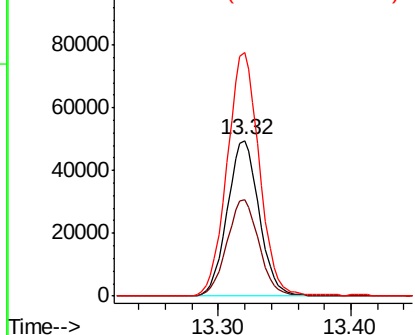


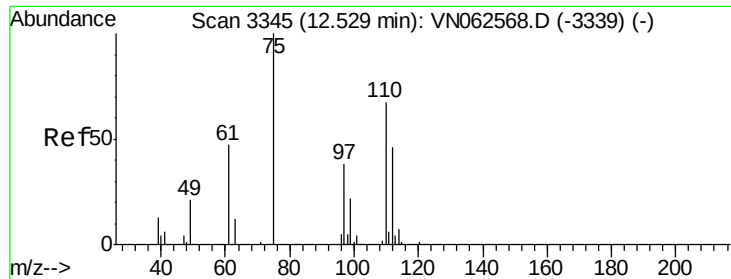
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.32 min Scan# 3591  
Delta R.T. 0.00 min  
Lab File: VN062707.D  
Acq: 1 Aug 2020 00:46

Tgt Ion:152 Resp: 82747  
Ion Ratio Lower Upper  
152 100  
115 62.6 31.8 95.4  
150 157.8 0.0 351.4



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

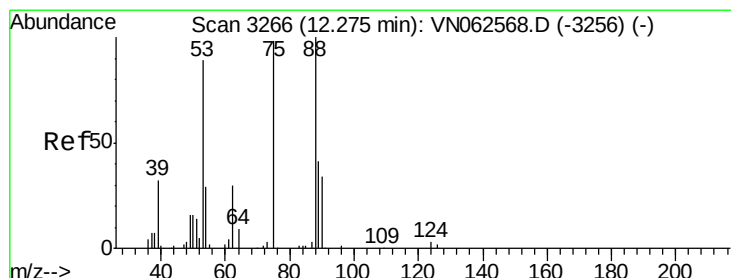
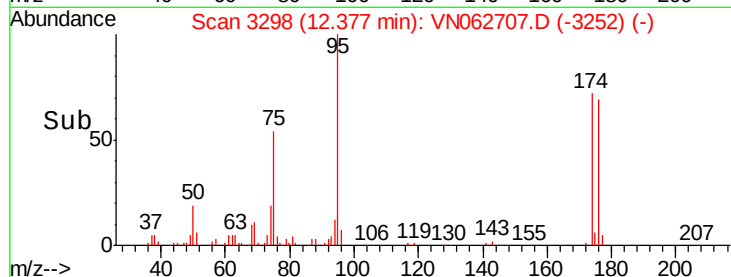
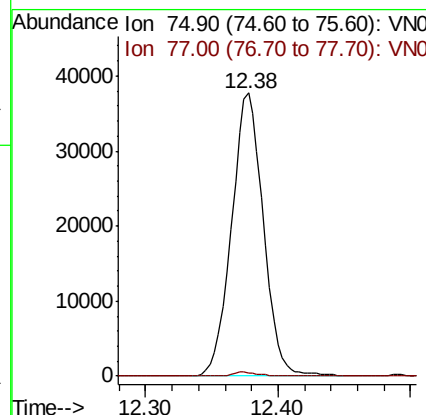
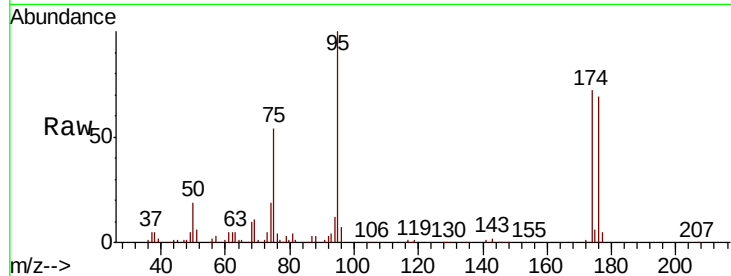




#76  
 1,2,3-Trichloropropane  
 Concen: 29.790 ug/l  
 RT: 12.38 min Scan# 3298  
 Delta R.T. -0.15 min  
 Lab File: VN062707.D  
 Acq: 1 Aug 2020 00:46

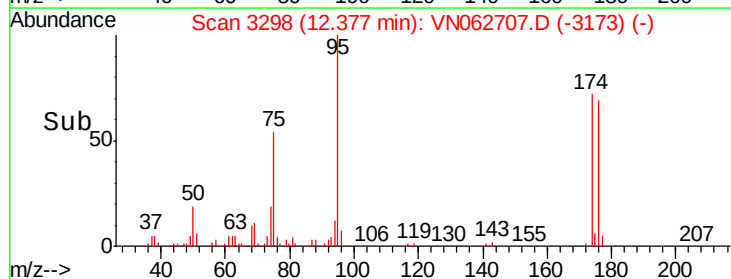
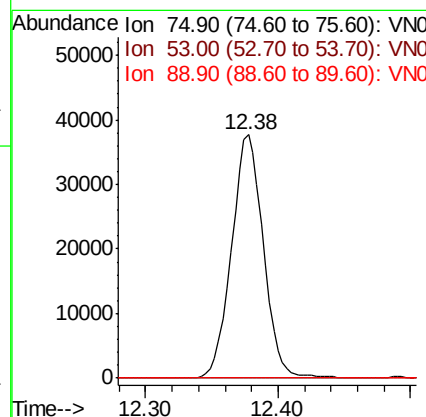
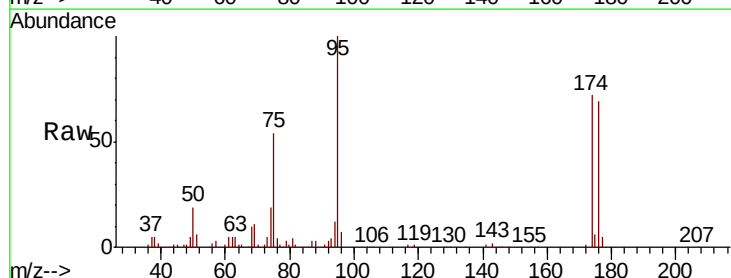
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TP-8

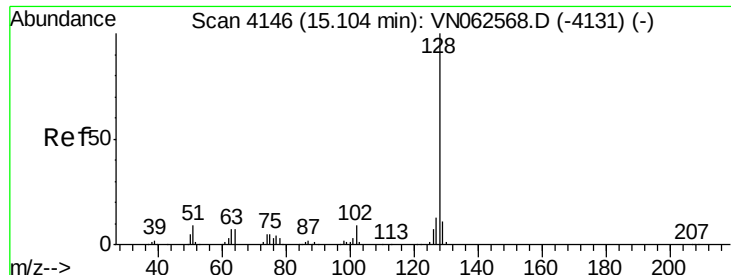
Tot Ion: 75 Resp: 62743  
 Ion Ratio Lower Upper  
 75 100  
 77 1.0 0.0 0.0#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 82.927 ug/l  
 RT: 12.38 min Scan# 3298  
 Delta R.T. 0.10 min  
 Lab File: VN062707.D  
 Acq: 1 Aug 2020 00:46

Tgt Ion: 75 Resp: 62743  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 75.4 113.0#  
 89 0.0 34.5 51.7#

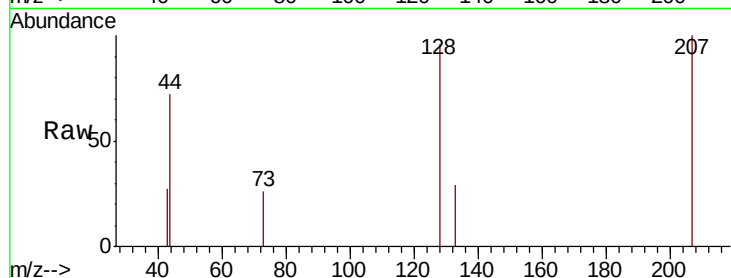




#95  
Naphthalene  
Concen: 3.965 ug/l  
RT: 15.11 min Scan# 4147  
Delta R.T. 0.00 min  
Lab File: VN062707.D  
Acq: 1 Aug 2020 00:46

Instrument :  
MSVOA\_N  
ClientSampleId :  
TP-8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 0.0   | 10.4  | 15.6# |
| 129     | 0.0   | 8.7   | 13.1# |



Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 129.00 (128.70 to 129.70): V

