

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061220\  
 Data File : VN061804.D  
 Acq On : 12 Jun 2020 20:17  
 Operator : JC/MD  
 Sample : L2988-08DL 10X  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 RE132D7-20200608

Quant Time: Jun 13 05:15:35 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N052820W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 29 02:14:10 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 280258   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 470618   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 473908   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 207309   | 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   | 159139   | 47.66 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.32%  |          |
| 35) Dibromofluoromethane    | 7.55  | 113  | 136320   | 57.10 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 114.20% |          |
| 50) Toluene-d8              | 10.06 | 98   | 577784   | 52.23 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.46% |          |
| 62) 4-Bromofluorobenzene    | 12.38 | 95   | 196744   | 48.74 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.48%  |          |

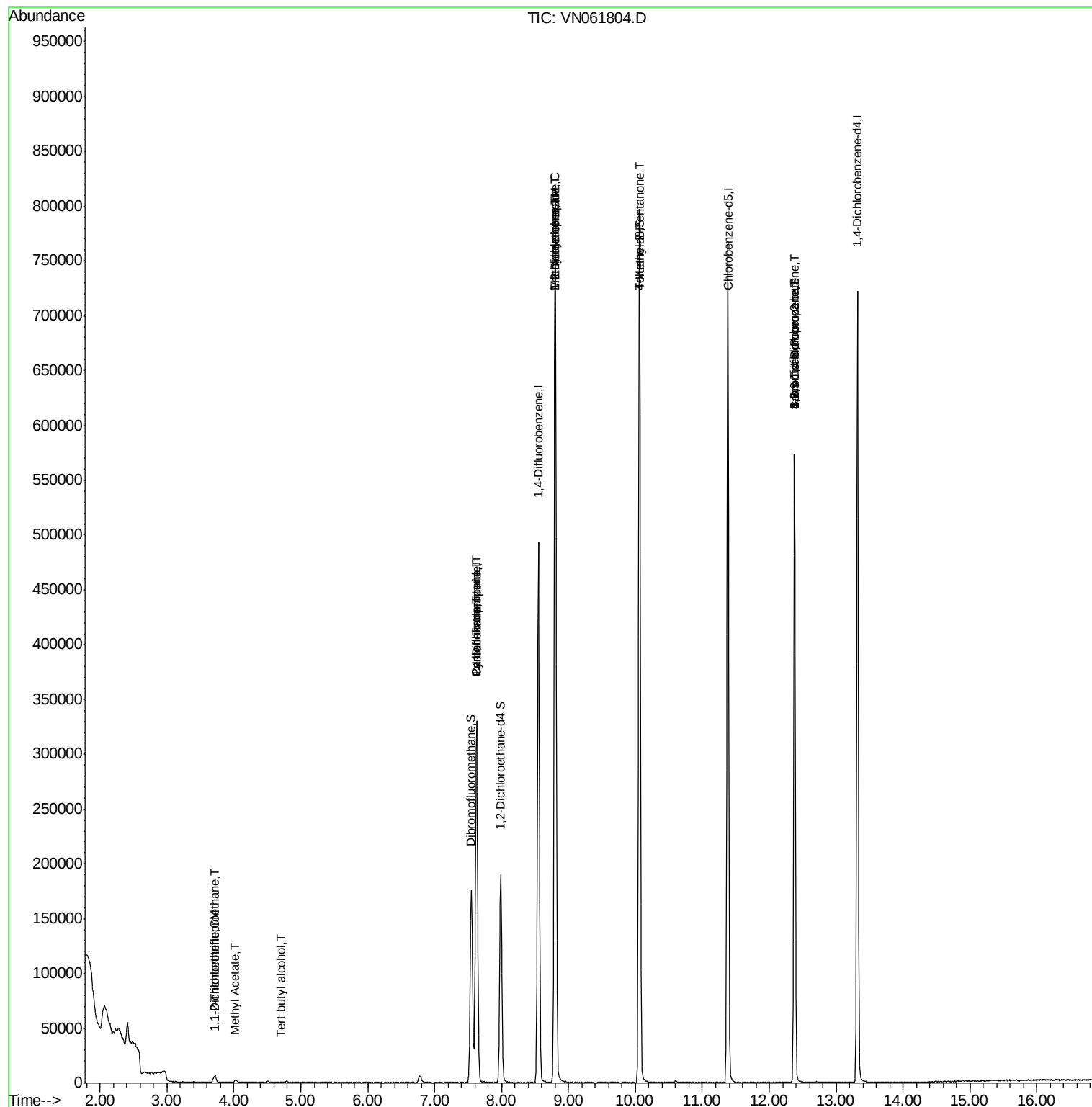
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 9) 1,1,2-Trichlorotrifluoroet  | 3.71  | 101  | 3758     | 1.402     | ug/l   | 94     |
| 11) Tert butyl alcohol         | 4.72  | 59   | 340      | 0.766     | ug/l # | 72     |
| 12) 1,1-Dichloroethene         | 3.70  | 96   | 1146     | 0.400     | ug/l # | 63     |
| 16) Acetone                    | 3.77  | 43   | 490      | Below Cal | #      | 41     |
| 18) Methyl Acetate             | 4.03  | 43   | 1091     | 0.361     | ug/l # | 46     |
| 20) Methylene Chloride         | 4.49  | 84   | 420      | Below Cal | #      | 86     |
| 31) Cyclohexane                | 7.63  | 56   | 4234     | 0.900     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.63  | 75   | 18868    | 4.529     | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 7.63  | 117  | 26415    | 6.573     | ug/l # | 16     |
| 39) Methylcyclohexane          | 8.80  | 83   | 3782     | 0.736     | ug/l # | 1      |
| 44) Trichloroethene            | 8.80  | 130  | 319027   | 80.756    | ug/l   | 95     |
| 45) 1,2-Dichloropropane        | 8.80  | 63   | 672      | 0.220     | ug/l # | 1      |
| 51) 4-Methyl-2-Pentanone       | 10.06 | 43   | 2178     | 0.640     | ug/l # | 1      |
| 71) Bromoform                  | 12.38 | 173  | 1612     | 0.570     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.38 | 75   | 94533    | 25.077    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 94533    | 64.129    | ug/l # | 15     |

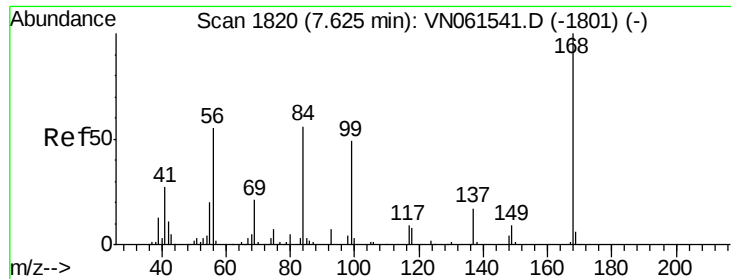
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN061220\  
Data File : VN061804.D  
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Sample : L2988-08DL 10X  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
RE132D7-20200608

Quant Time: Jun 13 05:15:35 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N052820W.M  
Quant Title : SW846 8260  
QLast Update : Fri May 29 02:14:10 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: VN061804.D

Acq: 12 Jun 2020 20:17

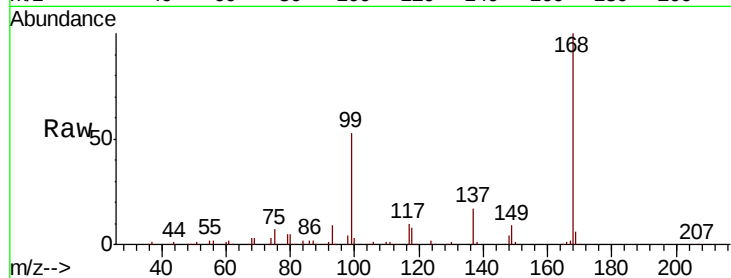
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE132D7-20200608

Tot Ion:168 Resp: 280258

Ion Ratio Lower Upper

168 100

99 53.1 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

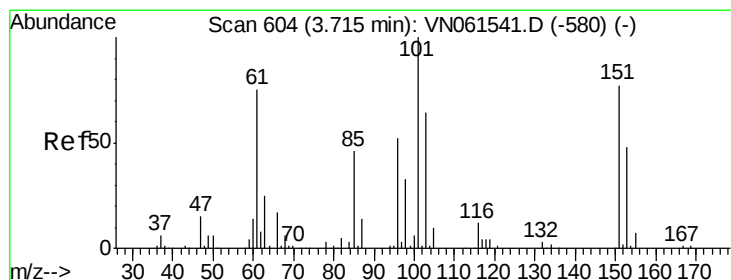
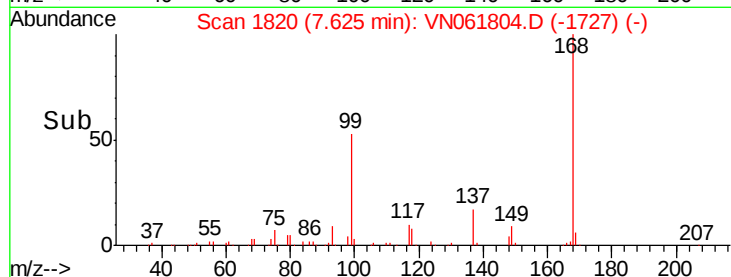
7.63

100000

50000

0

Time--> 7.50 7.60 7.70



#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.402 ug/l

RT: 3.71 min Scan# 602

Delta R.T. -0.01 min

Lab File: VN061804.D

Acq: 12 Jun 2020 20:17

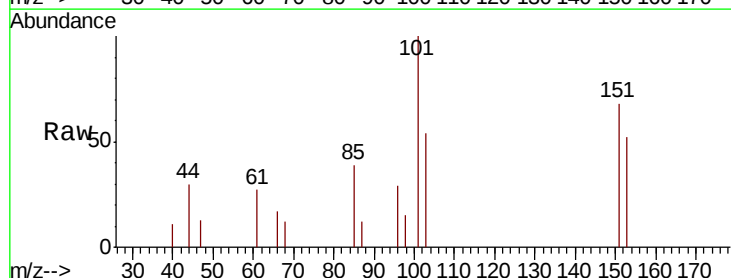
Tgt Ion:101 Resp: 3758

Ion Ratio Lower Upper

101 100

85 46.2 35.2 52.8

151 82.9 61.0 91.6



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V

3.71

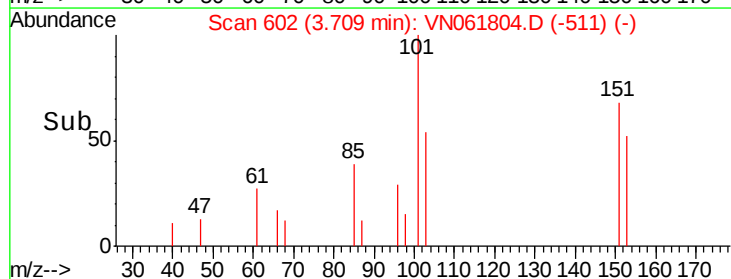
1500

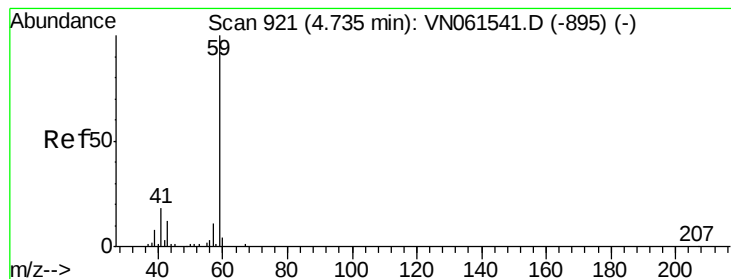
1000

500

0

Time--> 3.65 3.70 3.75





#11

Tert butyl alcohol

Concen: 0.766 ug/l

RT: 4.72 min Scan# 915

Delta R.T. -0.02 min

Lab File: VN061804.D

Acq: 12 Jun 2020 20:17

Instrument :

MSVOA\_N

ClientSampleId :

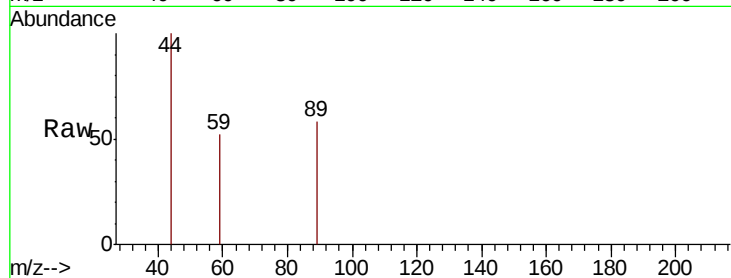
RE132D7-20200608

Tot Ion: 59 Resp: 340

Ion Ratio Lower Upper

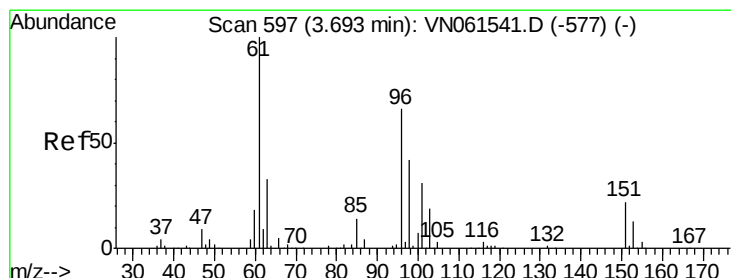
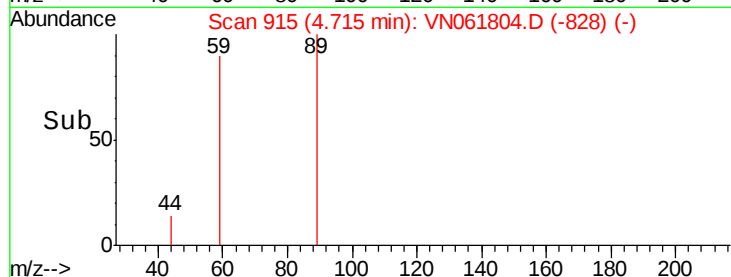
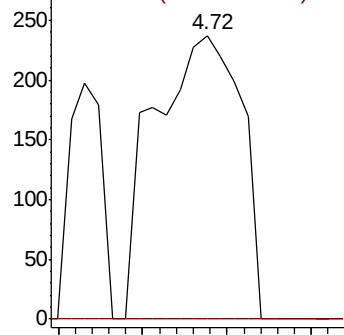
59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0



#12

1,1-Dichloroethene

Concen: 0.400 ug/l

RT: 3.70 min Scan# 600

Delta R.T. 0.01 min

Lab File: VN061804.D

Acq: 12 Jun 2020 20:17

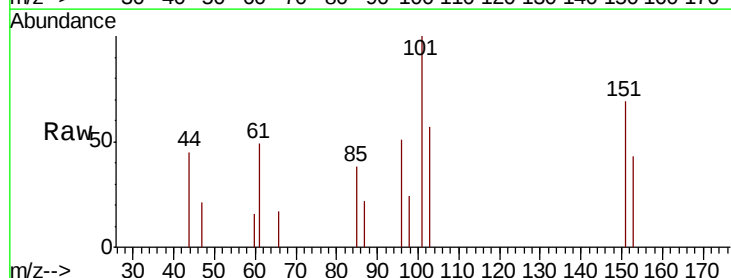
Tgt Ion: 96 Resp: 1146

Ion Ratio Lower Upper

96 100

61 96.0 120.5 180.7#

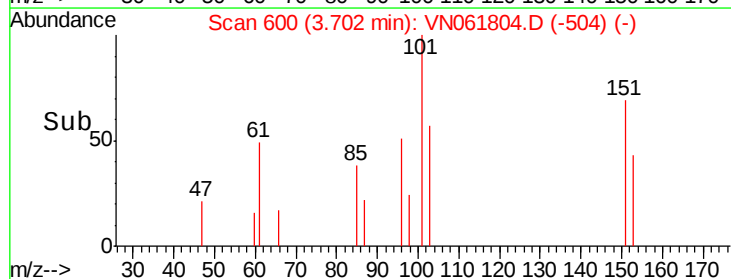
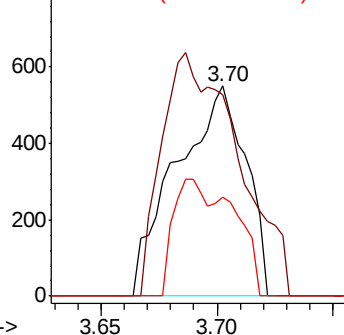
98 46.8 50.8 76.2#

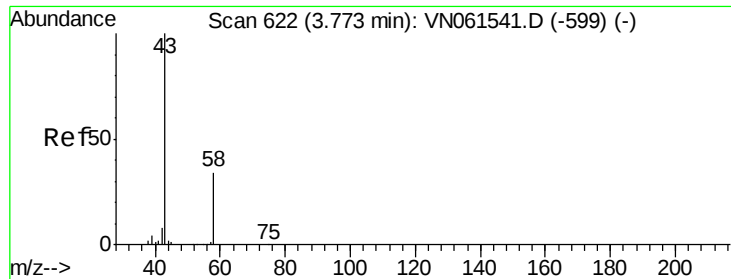


Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

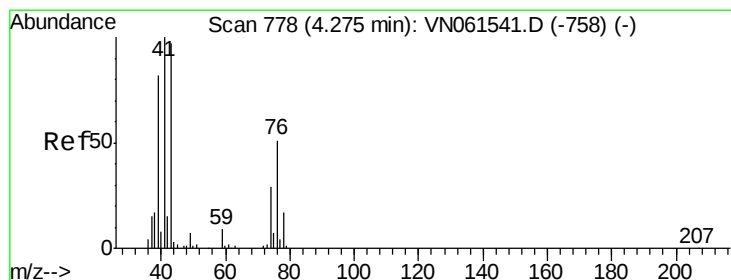
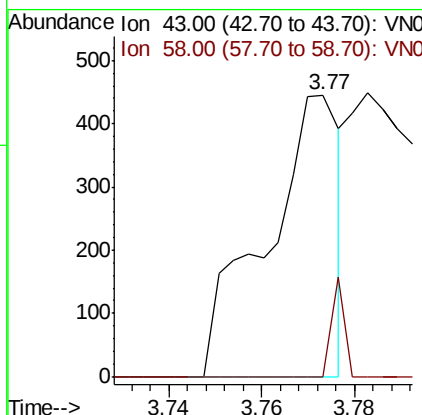
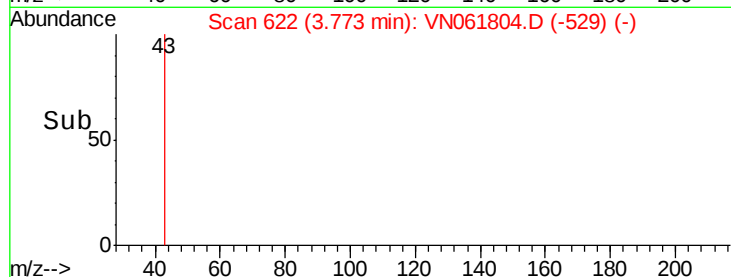
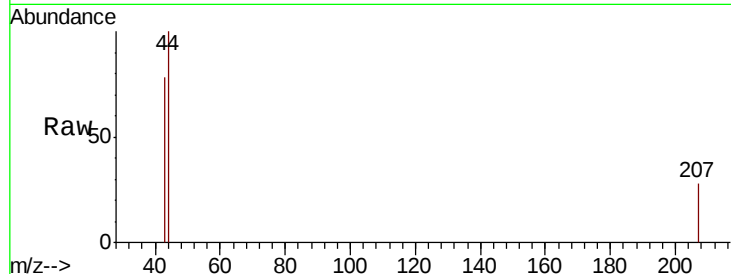




#16  
Acetone  
Concen: Below Cal  
RT: 3.77 min Scan# 622  
Delta R.T. 0.00 min  
Lab File: VN061804.D  
Acq: 12 Jun 2020 20:17

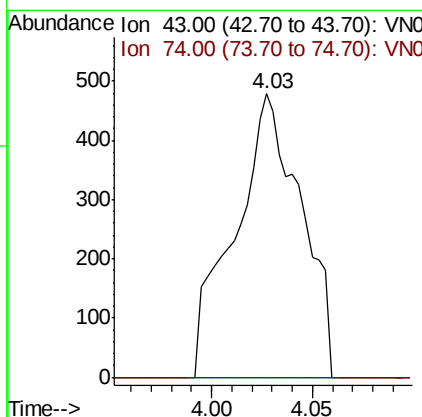
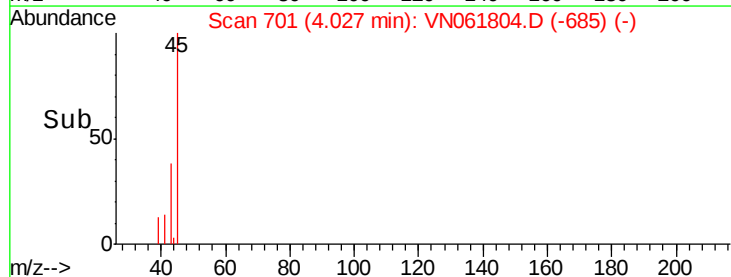
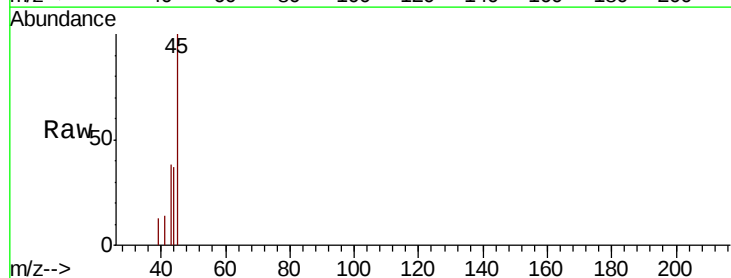
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MSVOA\_N  
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RE132D7-20200608

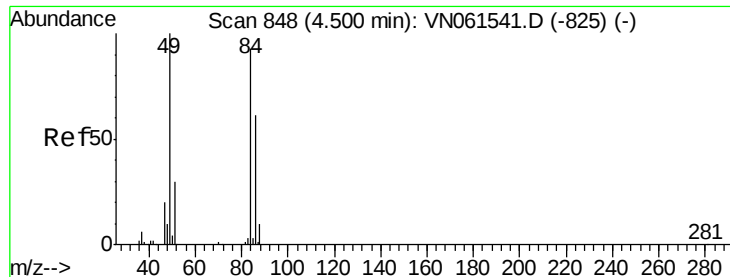
Tot Ion: 43 Resp: 490  
Ion Ratio Lower Upper  
43 100  
58 0.0 27.2 40.8#



#18  
Methyl Acetate  
Concen: 0.361 ug/l  
RT: 4.03 min Scan# 701  
Delta R.T. -0.25 min  
Lab File: VN061804.D  
Acq: 12 Jun 2020 20:17

Tgt Ion: 43 Resp: 1091  
Ion Ratio Lower Upper  
43 100  
74 0.0 23.2 34.8#

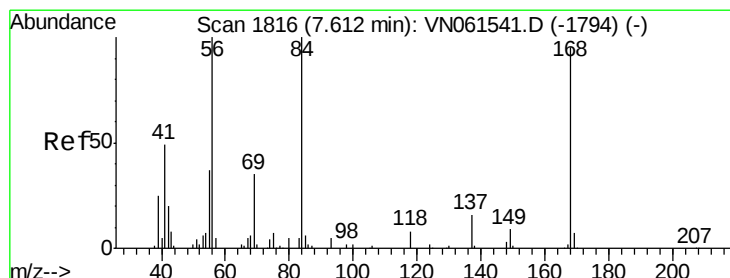
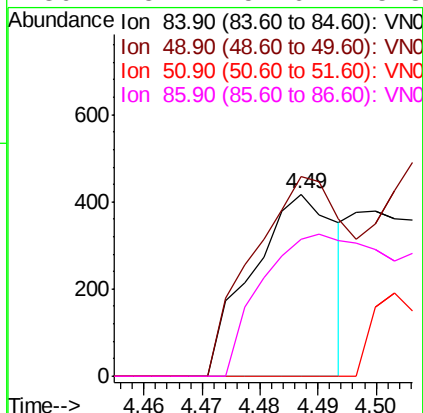
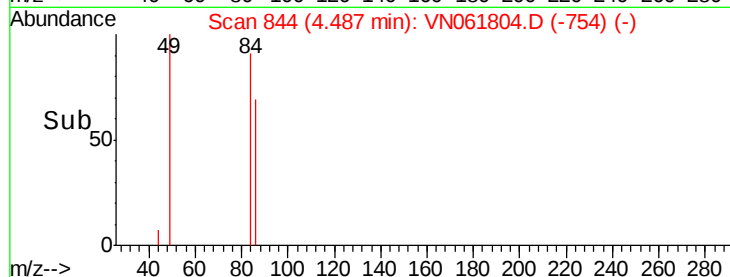
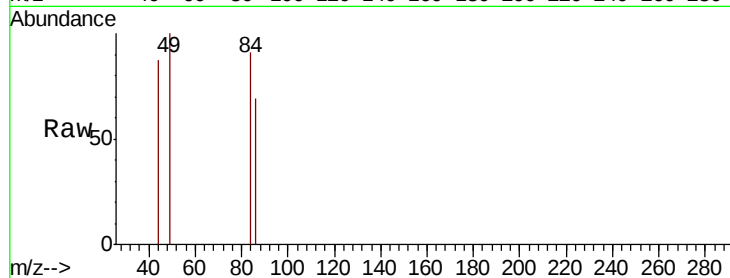




#20  
Methvlene Chloride  
Concen: Below Cal  
RT: 4.49 min Scan# 844  
Delta R.T. -0.01 min  
Lab File: VN061804.D  
Acq: 12 Jun 2020 20:17

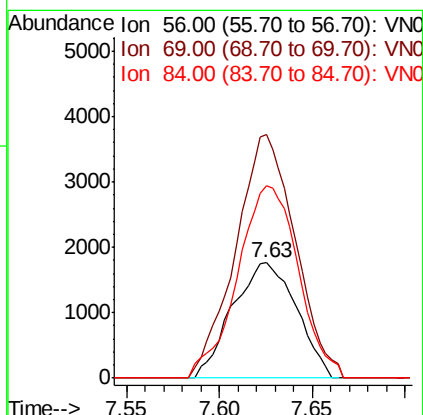
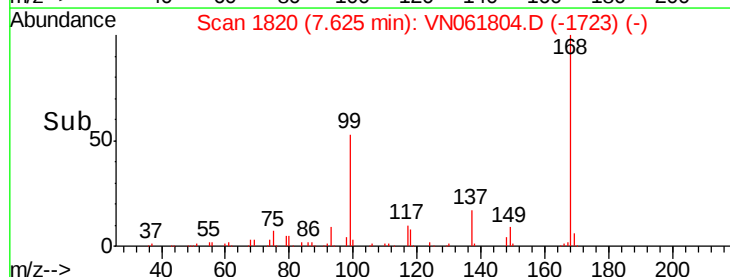
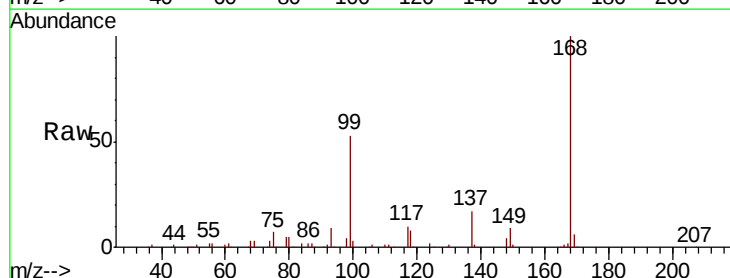
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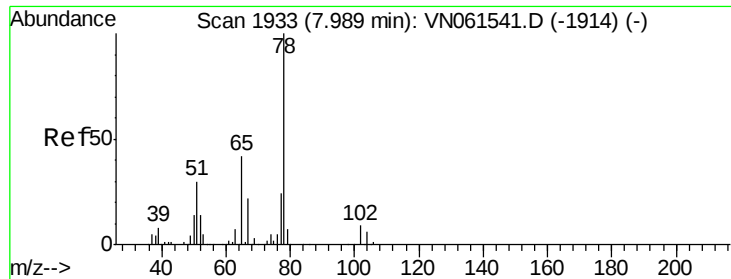
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 420   |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 109.8 | 85.8  | 128.8 |
| 51       | 0.0   | 26.2  | 39.2# |
| 86       | 75.4  | 52.6  | 78.8  |



#31  
Cyclohexane  
Concen: 0.900 ug/l  
RT: 7.63 min Scan# 1820  
Delta R.T. 0.01 min  
Lab File: VN061804.D  
Acq: 12 Jun 2020 20:17

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 4234   |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 210.7 | 27.8  | 41.8#  |
| 84       | 166.2 | 79.9  | 119.9# |

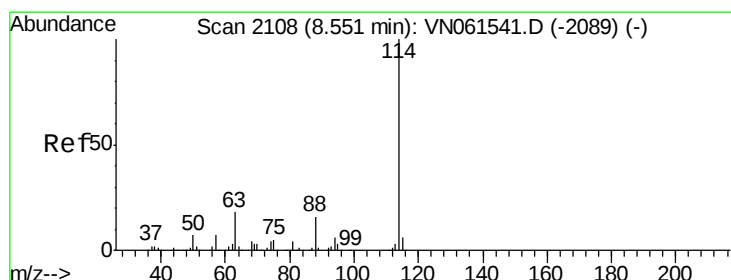
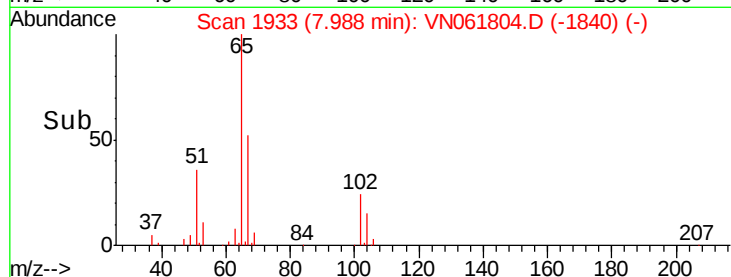
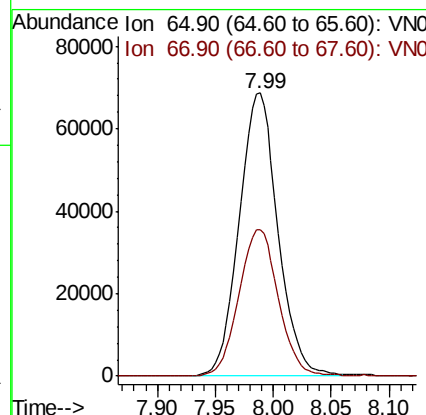
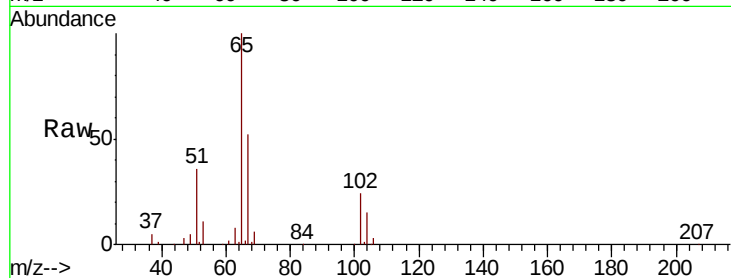




#33  
 1,2-Dichloroethane-d4  
 Concen: 47.659 ug/l  
 RT: 7.99 min Scan# 1933  
 Delta R.T. -0.00 min  
 Lab File: VN061804.D  
 Acq: 12 Jun 2020 20:17

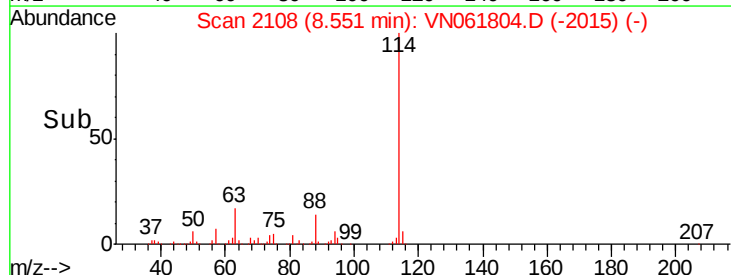
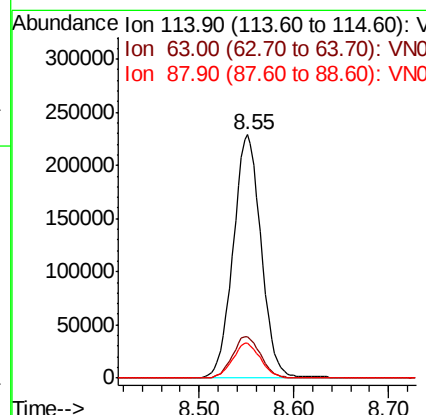
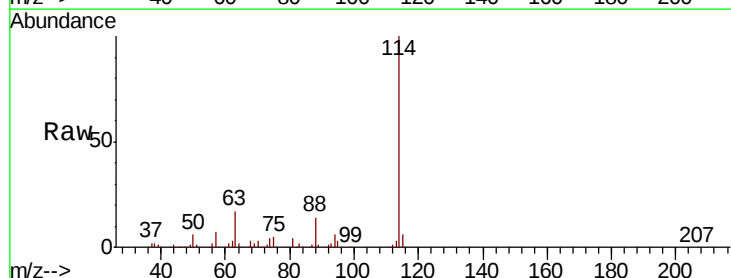
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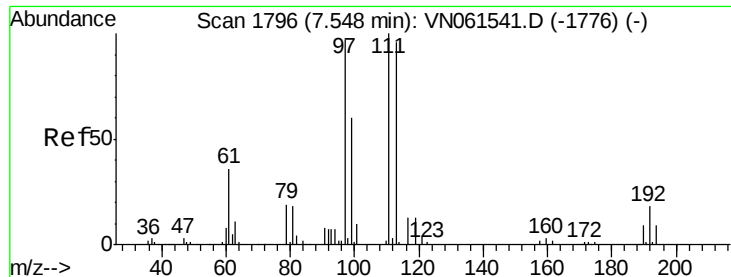
Tot Ion: 65 Resp: 159139  
 Ion Ratio Lower Upper  
 65 100  
 67 52.8 0.0 104.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.55 min Scan# 2108  
 Delta R.T. -0.00 min  
 Lab File: VN061804.D  
 Acq: 12 Jun 2020 20:17

Tgt Ion: 114 Resp: 470618  
 Ion Ratio Lower Upper  
 114 100  
 63 17.0 0.0 35.8  
 88 14.4 0.0 31.0

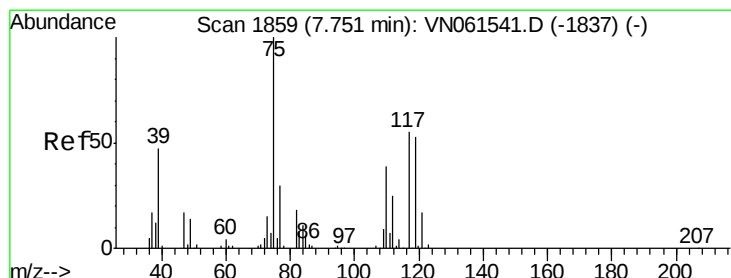
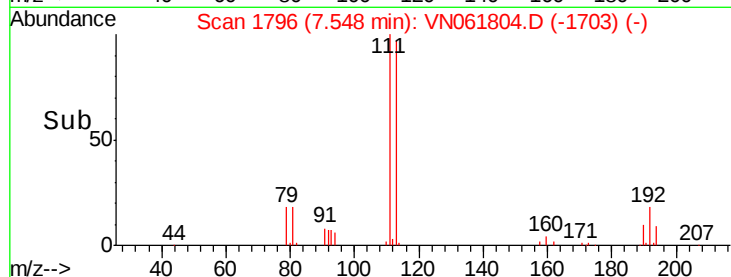
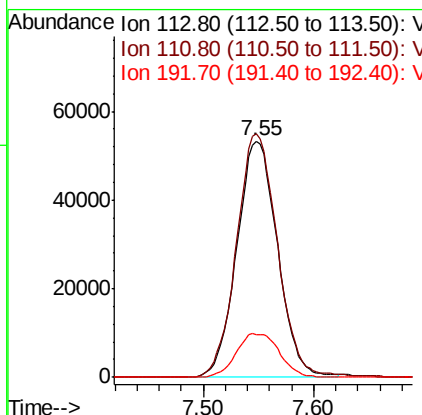
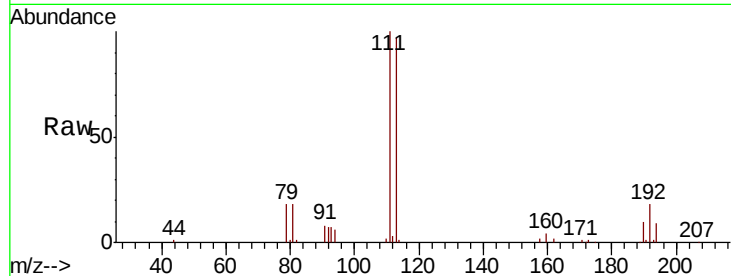




#35  
 Dibromofluoromethane  
 Concen: 57.101 ug/l  
 RT: 7.55 min Scan# 1796  
 Delta R.T. -0.00 min  
 Lab File: VN061804.D  
 Acq: 12 Jun 2020 20:17

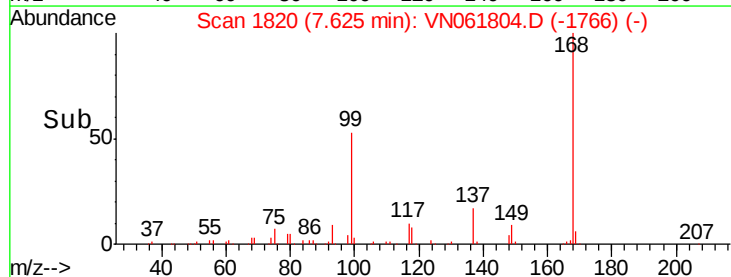
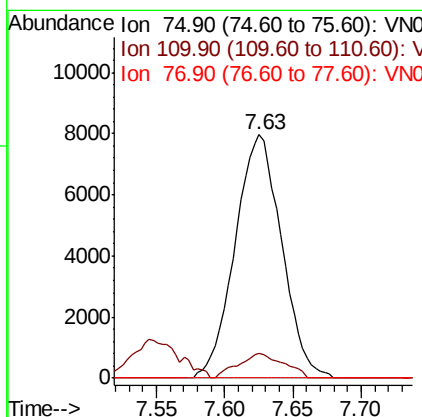
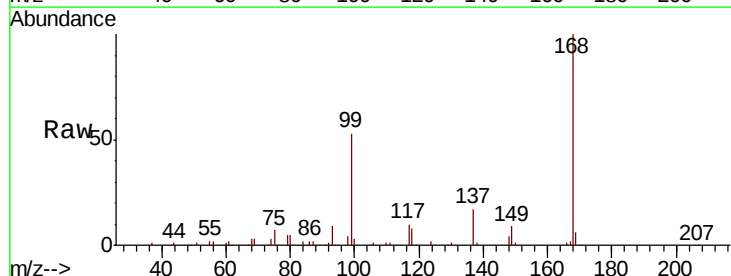
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 RE132D7-20200608

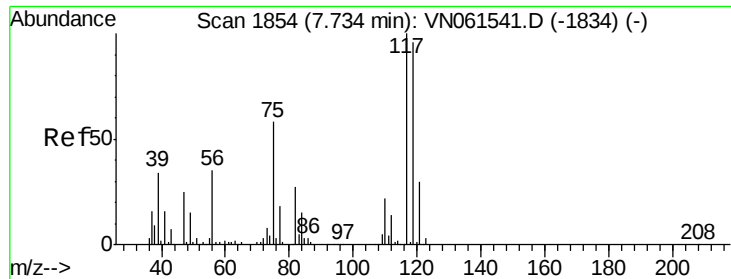
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.6 | 83.4  | 125.0 |
| 192     | 19.7  | 15.4  | 23.2  |



#36  
 1,1-Dichloropropene  
 Concen: 4.529 ug/l  
 RT: 7.63 min Scan# 1820  
 Delta R.T. -0.13 min  
 Lab File: VN061804.D  
 Acq: 12 Jun 2020 20:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.8   | 19.5  | 58.5# |
| 77      | 0.0   | 24.7  | 37.1# |





#38

Carbon Tetrachloride

Concen: 6.573 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN061804.D

Acq: 12 Jun 2020 20:17

Instrument :

MSVOA\_N

ClientSampleId :

RE132D7-20200608

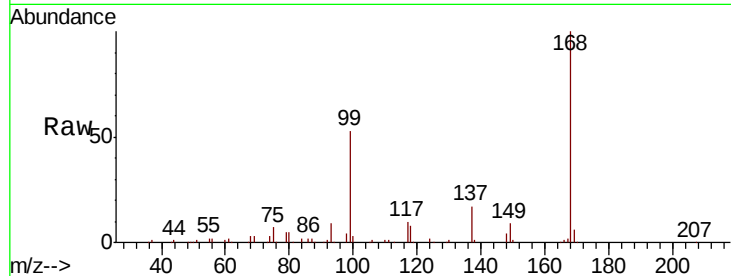
Tot Ion:117 Resp: 26415

Ion Ratio Lower Upper

117 100

119 4.7 76.5 114.7#

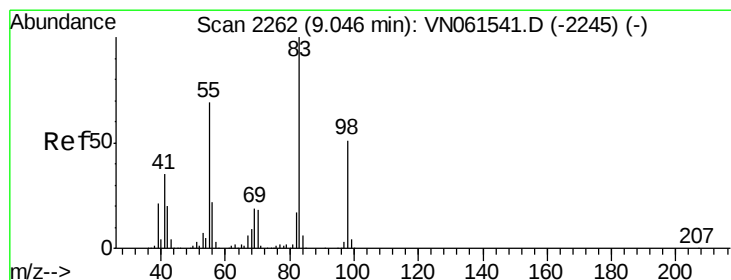
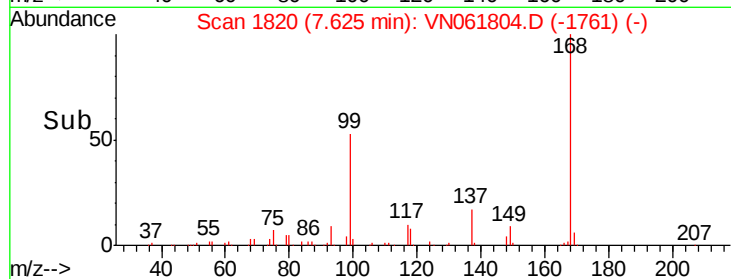
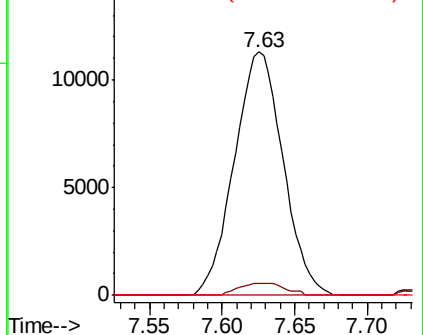
121 0.0 24.1 36.1#



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



#39

Methylcyclohexane

Concen: 0.736 ug/l

RT: 8.80 min Scan# 2186

Delta R.T. -0.24 min

Lab File: VN061804.D

Acq: 12 Jun 2020 20:17

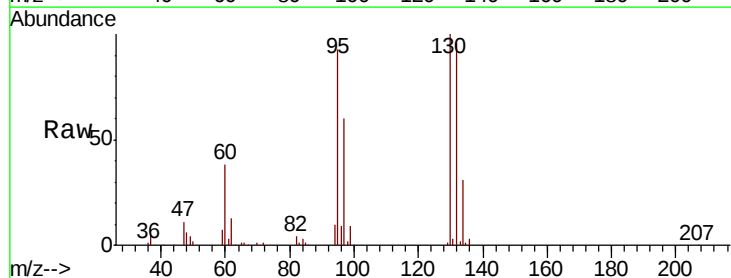
Tgt Ion: 83 Resp: 3782

Ion Ratio Lower Upper

83 100

55 0.0 54.9 82.3#

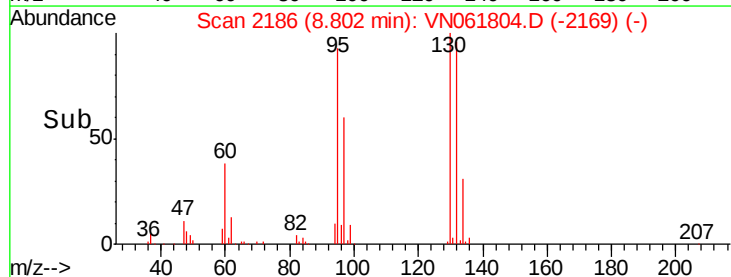
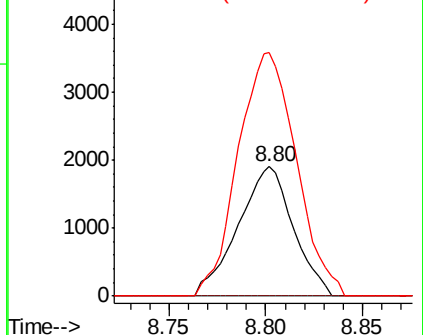
98 188.4 41.0 61.4#

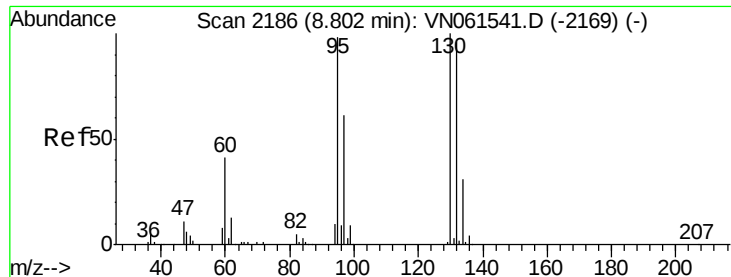


Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 98.00 (97.70 to 98.70): VN0





#44

Trichloroethene

Concen: 80.756 ug/l

RT: 8.80 min Scan# 2186

Delta R.T. -0.00 min

Lab File: VN061804.D

Acq: 12 Jun 2020 20:17

Instrument :

MSVOA\_N

ClientSampleId :

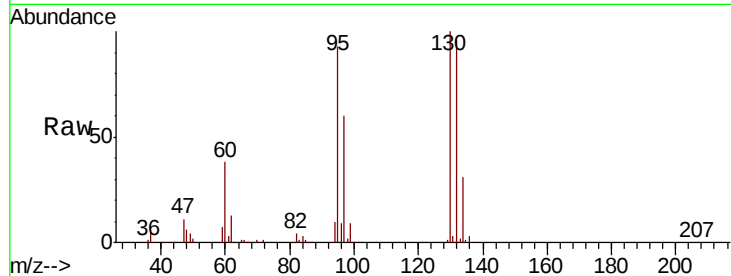
RE132D7-20200608

Tot Ion:130 Resp: 319027

Ion Ratio Lower Upper

130 100

95 93.0 0.0 196.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0

8.80

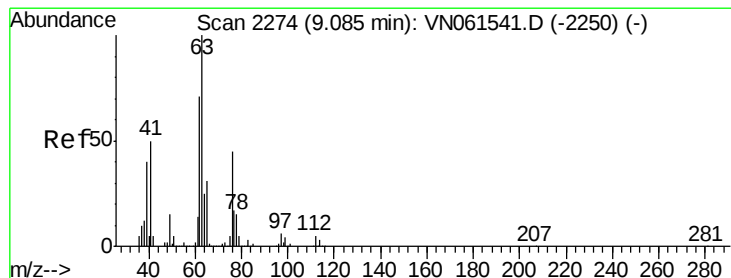
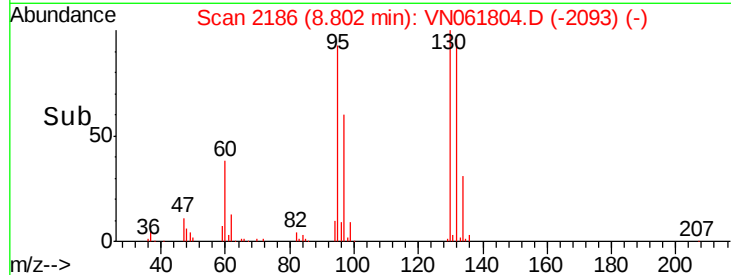
150000

100000

50000

0

Time-->



#45

1,2-Dichloropropane

Concen: 0.220 ug/l

RT: 8.80 min Scan# 2185

Delta R.T. -0.29 min

Lab File: VN061804.D

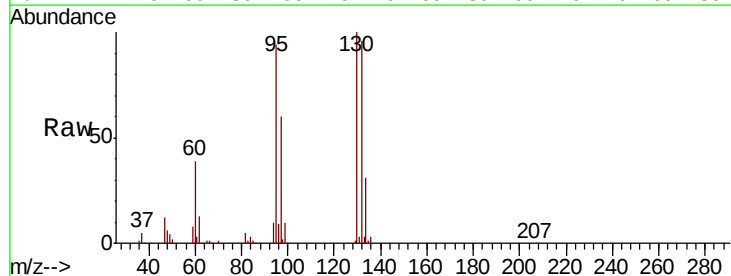
Acq: 12 Jun 2020 20:17

Tgt Ion: 63 Resp: 672

Ion Ratio Lower Upper

63 100

65 315.9 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

2000

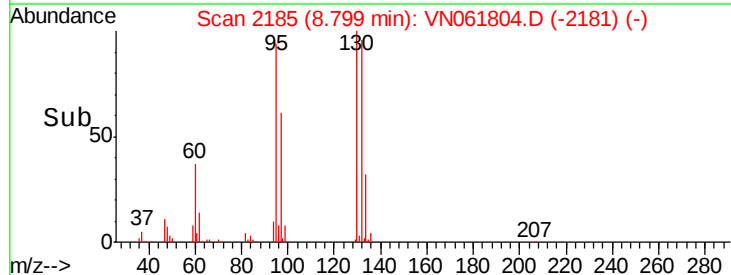
1500

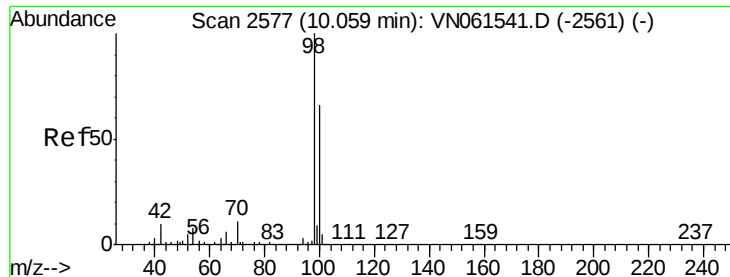
1000

500

0

Time-->





#50

Toluene-d8

Concen: 52.225 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN061804.D

Acq: 12 Jun 2020 20:17

Instrument :

MSVOA\_N

ClientSampleId :

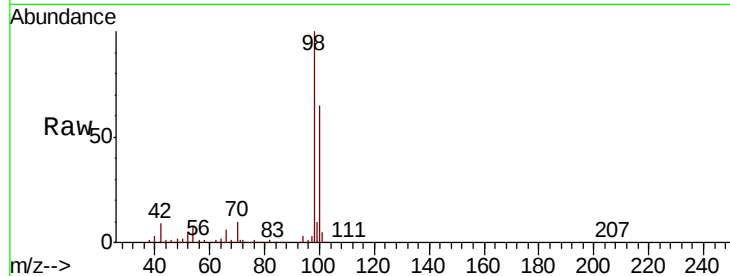
RE132D7-20200608

Tot Ion: 98 Resp: 577784

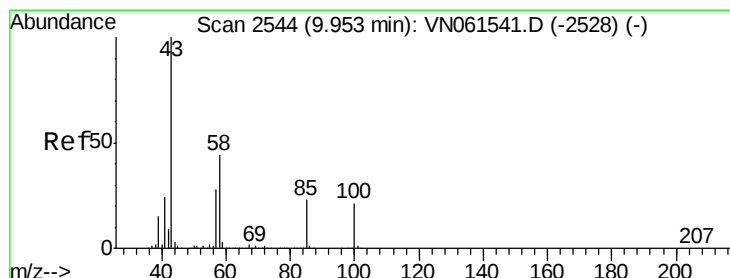
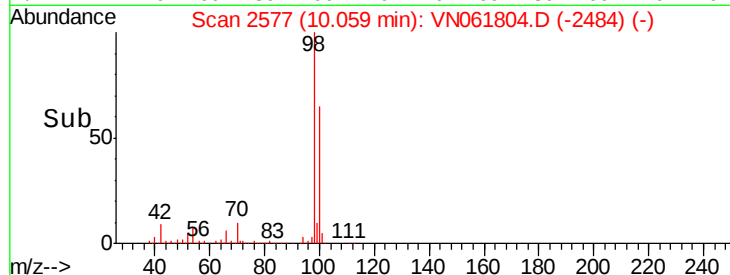
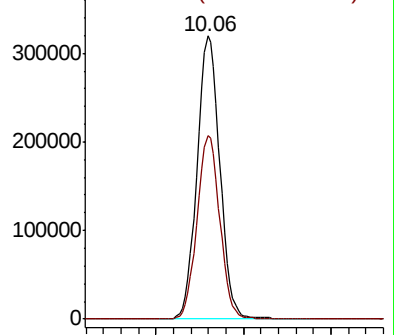
Ion Ratio Lower Upper

98 100

100 65.0 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VN061804.D (-2484) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.640 ug/l

RT: 10.06 min Scan# 2576

Delta R.T. 0.10 min

Lab File: VN061804.D

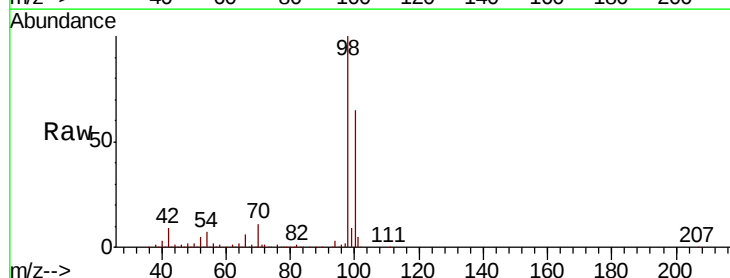
Acq: 12 Jun 2020 20:17

Tgt Ion: 43 Resp: 2178

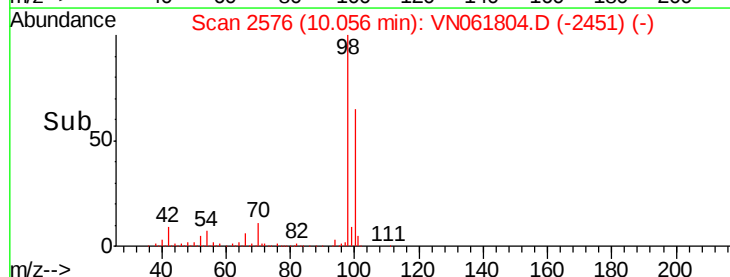
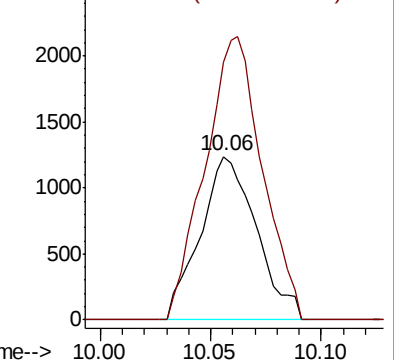
Ion Ratio Lower Upper

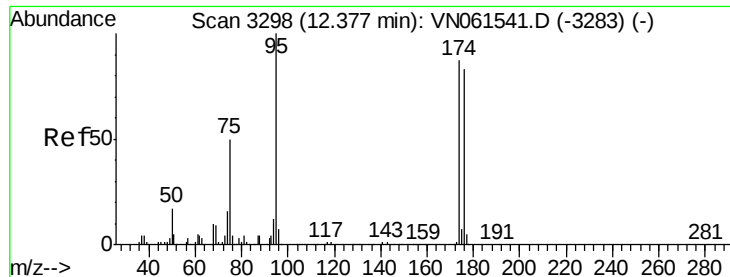
43 100

58 177.2 35.0 52.6#



Abundance Ion 43.00 (42.70 to 43.70): VN061804.D (-2451) (-)

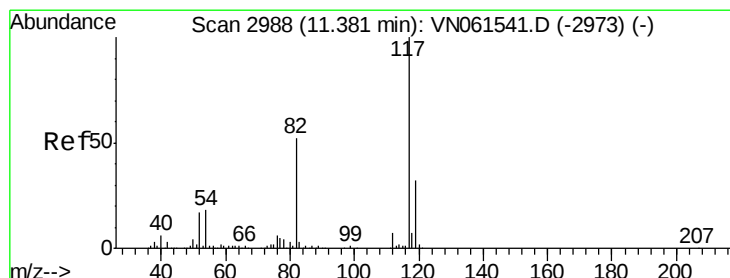
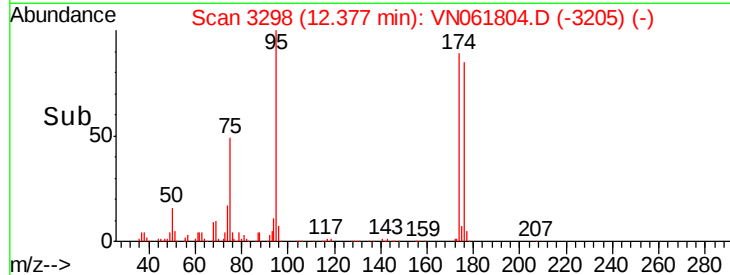
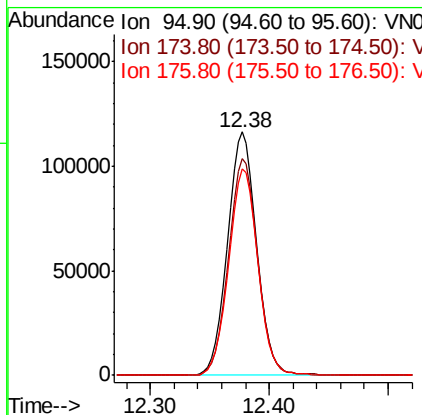
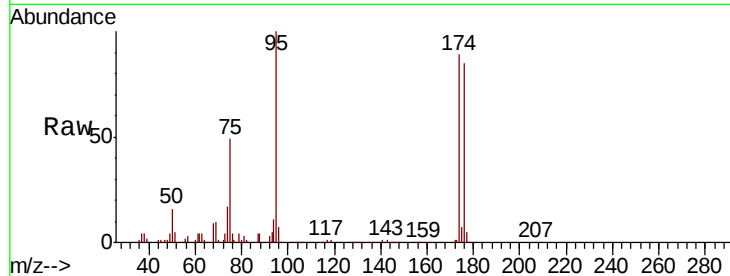




#62  
4-Bromofluorobenzene  
Concen: 48.744 ug/l  
RT: 12.38 min Scan# 3298  
Delta R.T. -0.00 min  
Lab File: VN061804.D  
Acq: 12 Jun 2020 20:17

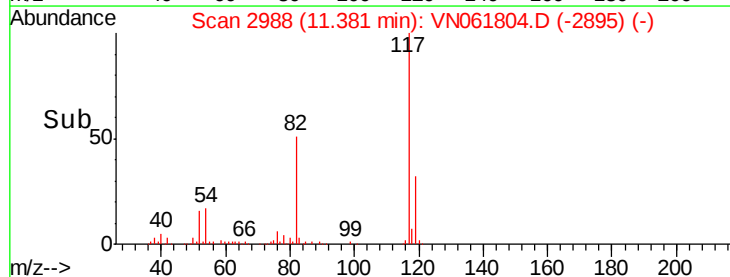
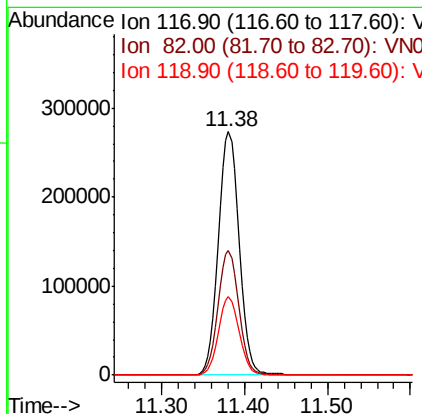
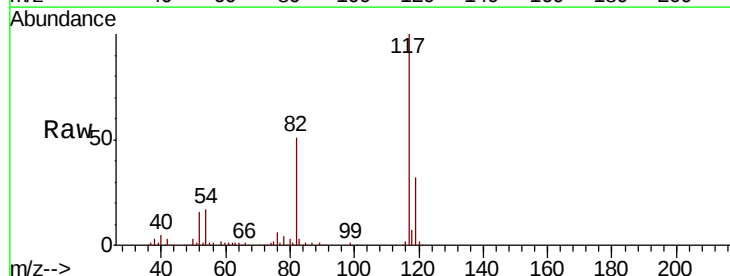
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE132D7-20200608

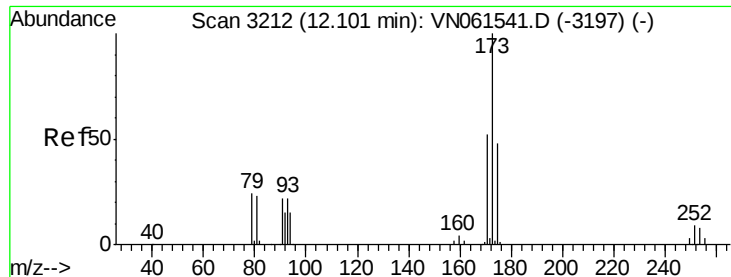
| Tot Ion   | 95    | Resp  | 196744 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 95        | 100   |       |        |
| 174       | 89.3  | 0.0   | 172.8  |
| 176       | 85.5  | 0.0   | 164.8  |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.38 min Scan# 2988  
Delta R.T. -0.00 min  
Lab File: VN061804.D  
Acq: 12 Jun 2020 20:17

| Tgt Ion   | 117   | Resp  | 473908 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 82        | 51.0  | 41.5  | 62.3   |
| 119       | 32.0  | 25.6  | 38.4   |





#71

Bromoform

Concen: 0.570 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN061804.D

Acq: 12 Jun 2020 20:17

Instrument :

MSVOA\_N

ClientSampleId :

RE132D7-20200608

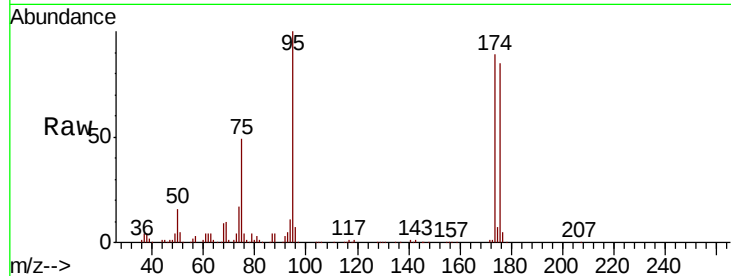
Tot Ion:173 Resp: 1612

Ion Ratio Lower Upper

173 100

175 694.1 24.4 73.2#

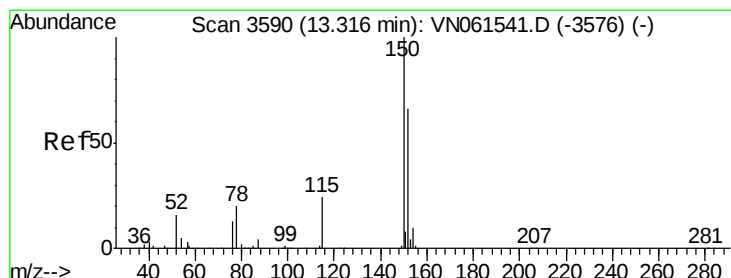
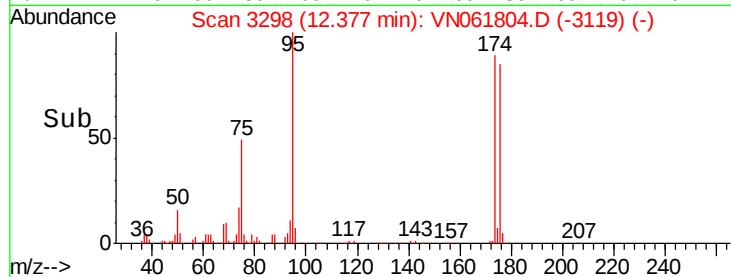
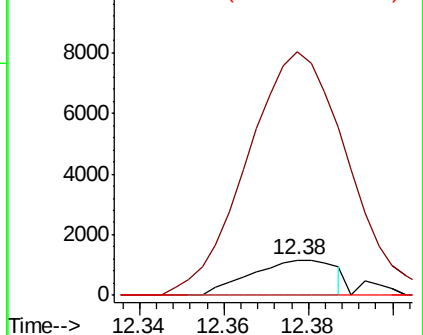
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061804.D

Acq: 12 Jun 2020 20:17

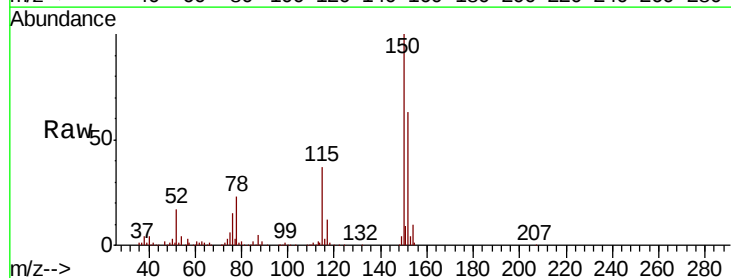
Tgt Ion:152 Resp: 207309

Ion Ratio Lower Upper

152 100

115 57.0 28.0 84.0

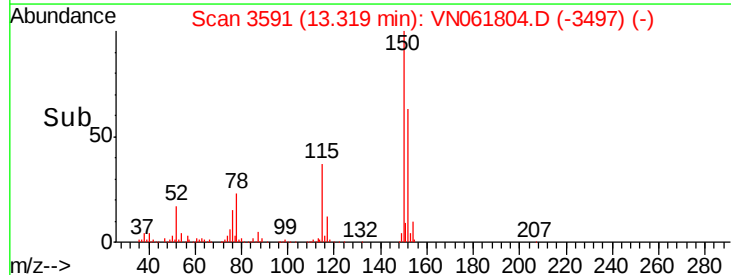
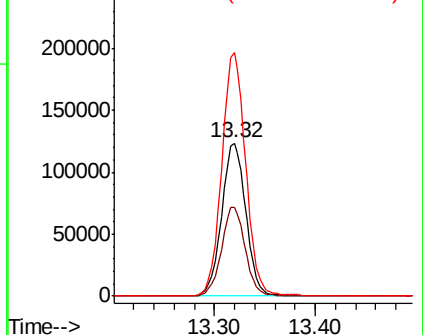
150 157.1 0.0 344.0

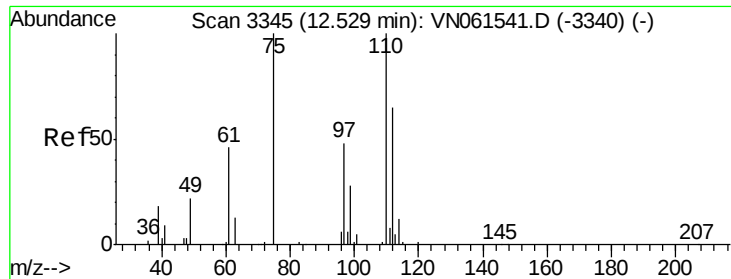


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

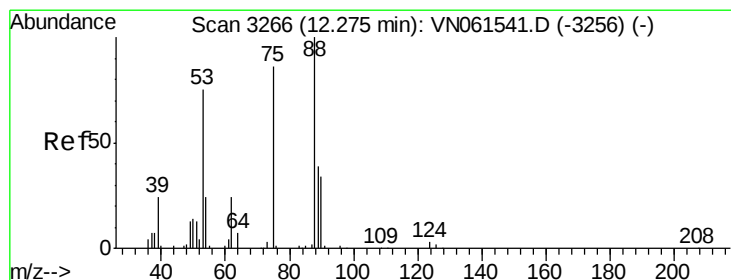
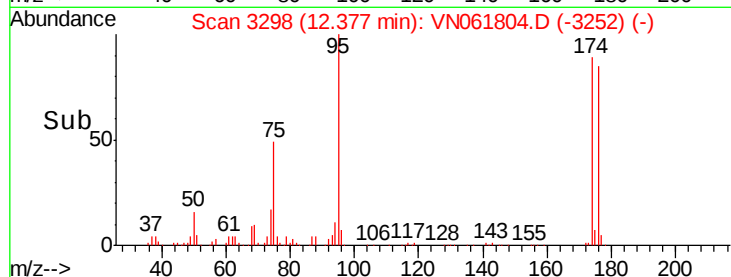
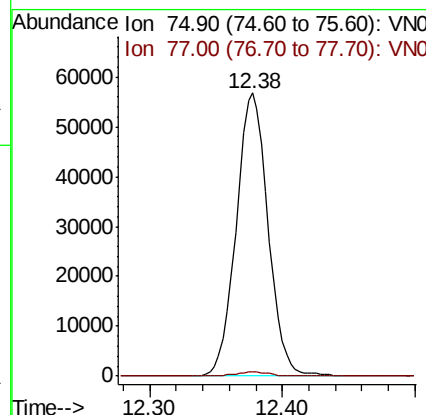
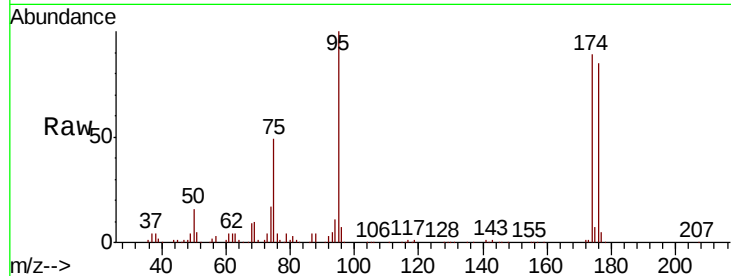




#76  
 1,2,3-Trichloropropane  
 Concen: 25.077 ug/l  
 RT: 12.38 min Scan# 3298  
 Delta R.T. -0.15 min  
 Lab File: VN061804.D  
 Acq: 12 Jun 2020 20:17

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 RE132D7-20200608

Tot Ion: 75 Resp: 94533  
 Ion Ratio Lower Upper  
 75 100  
 77 1.5 0.0 0.0#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 64.129 ug/l  
 RT: 12.38 min Scan# 3298  
 Delta R.T. 0.10 min  
 Lab File: VN061804.D  
 Acq: 12 Jun 2020 20:17

Tgt Ion: 75 Resp: 94533  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 67.8 101.8#  
 89 0.0 37.1 55.7#

