

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092320\  
 Data File : VN063598.D  
 Acq On : 23 Sep 2020 18:54  
 Operator : JC/MD  
 Sample : L4083-03  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 RE120D3-20200916

Quant Time: Sep 24 02:37:31 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091620W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 16 13:05:20 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 203332   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 377905   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 386604   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 163324   | 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   | 174825   | 50.51 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.02% |          |
| 35) Dibromofluoromethane    | 7.55  | 113  | 124555   | 47.61 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.22%  |          |
| 50) Toluene-d8              | 10.06 | 98   | 492045   | 50.02 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.04% |          |
| 62) 4-Bromofluorobenzene    | 12.38 | 95   | 191433   | 53.09 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.18% |          |

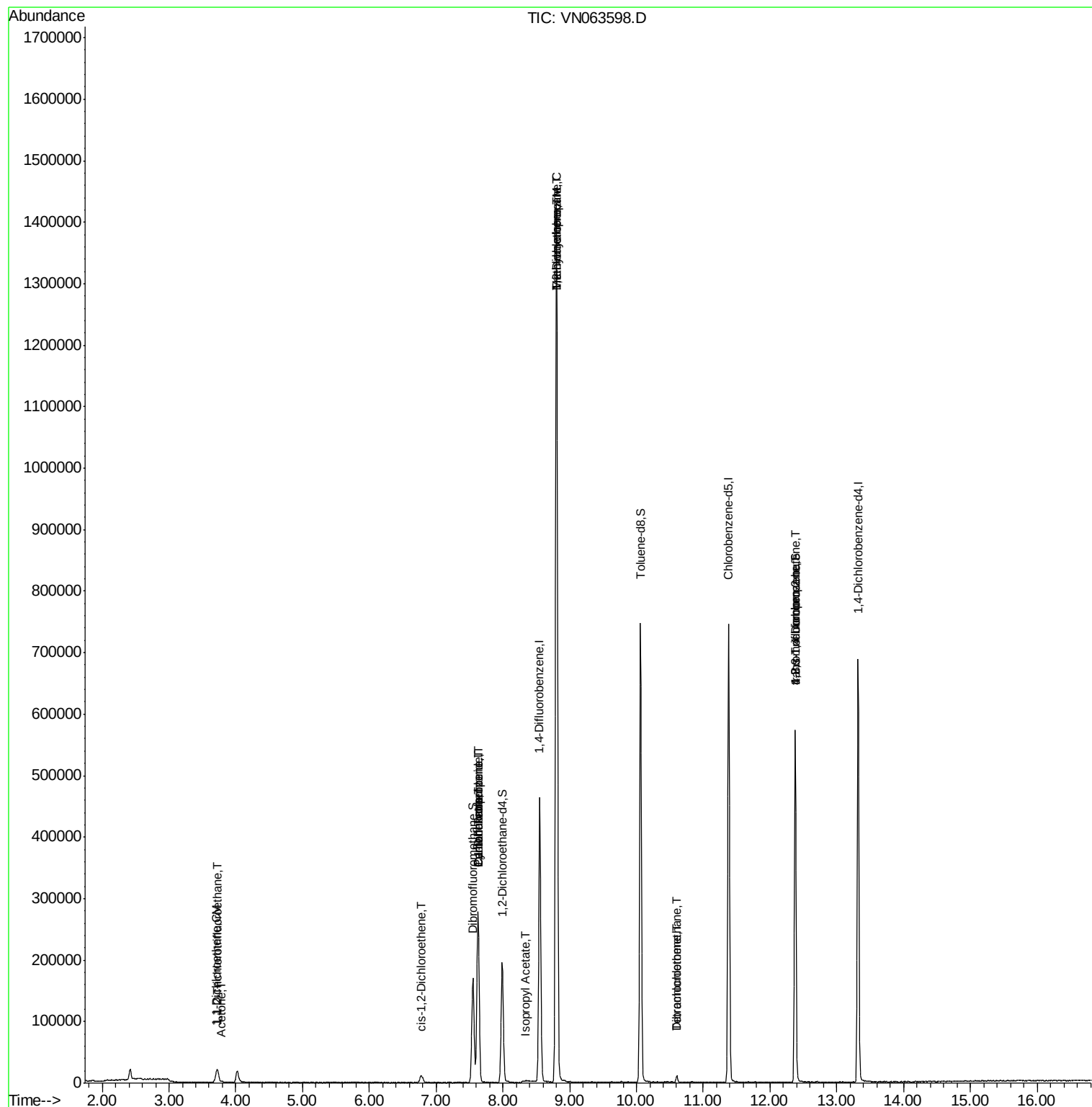
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 9) 1,1,2-Trichlorotrifluoroet  | 3.73  | 101  | 12409    | 5.478   | ug/l # | 80     |
| 12) 1,1-Dichloroethene         | 3.70  | 96   | 2234     | 0.974   | ug/l   | 87     |
| 16) Acetone                    | 3.78  | 43   | 2345     | 2.108   | ug/l # | 71     |
| 27) cis-1,2-Dichloroethene     | 6.79  | 96   | 1122     | 0.390   | ug/l   | 5      |
| 31) Cyclohexane                | 7.62  | 56   | 5506     | 1.152   | ug/l # | 41     |
| 36) 1,1-Dichloropropene        | 7.63  | 75   | 19481    | 4.839   | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 7.63  | 117  | 22572    | 5.492   | ug/l # | 16     |
| 39) Methylcyclohexane          | 8.80  | 83   | 6745     | 1.544   | ug/l # | 1      |
| 43) Isopropyl Acetate          | 8.33  | 43   | 3761     | 0.532   | ug/l # | 64     |
| 44) Trichloroethene            | 8.80  | 130  | 481964   | 172.899 | ug/l   | 98     |
| 45) 1,2-Dichloropropane        | 8.80  | 63   | 1322     | 0.422   | ug/l # | 1      |
| 60) Dibromochloromethane       | 10.61 | 129  | 2154     | 0.695   | ug/l # | 10     |
| 64) Tetrachloroethene          | 10.60 | 164  | 2104     | 0.799   | ug/l # | 74     |
| 76) 1,2,3-Trichloropropane     | 12.38 | 75   | 107067   | 26.485  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 107067   | 72.613  | ug/l # | 7      |

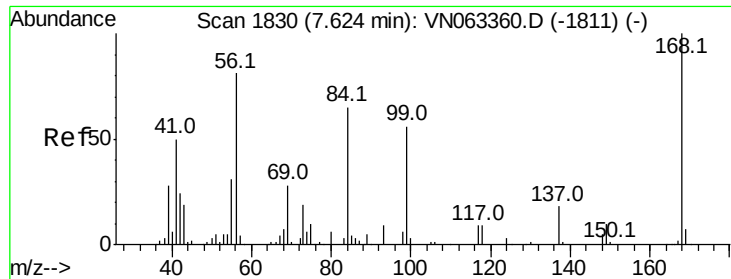
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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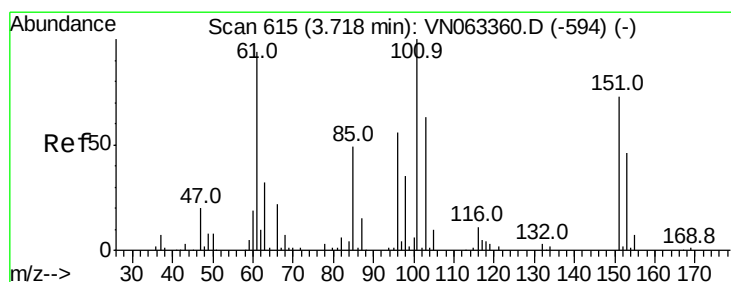
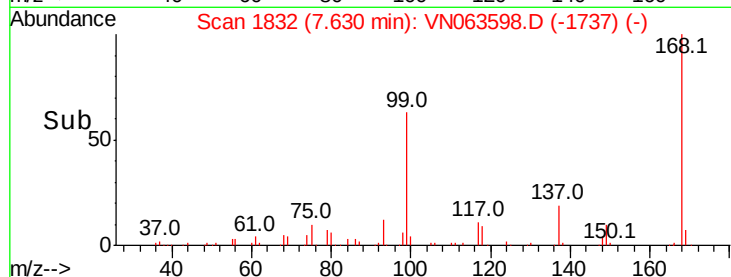
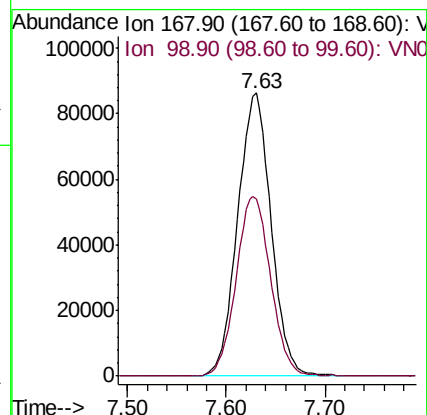
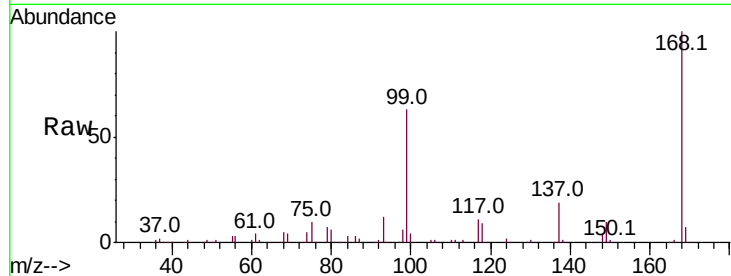




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.63 min Scan# 1832  
Delta R.T. 0.01 min  
Lab File: VN063598.D  
Acq: 23 Sep 2020 18:54

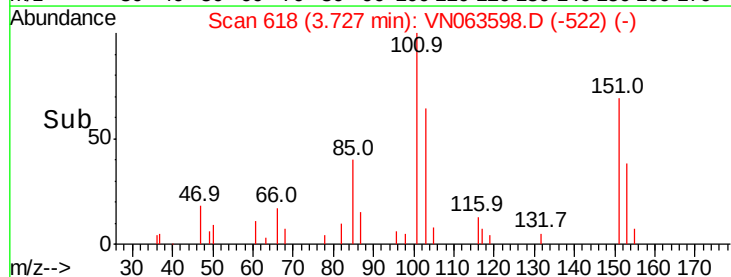
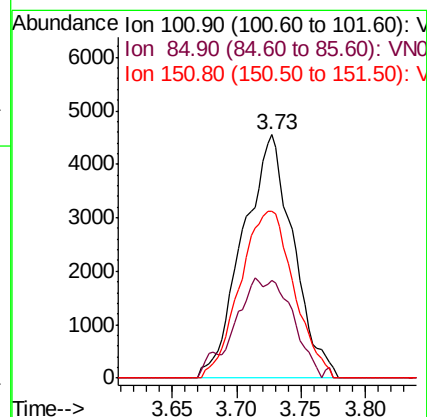
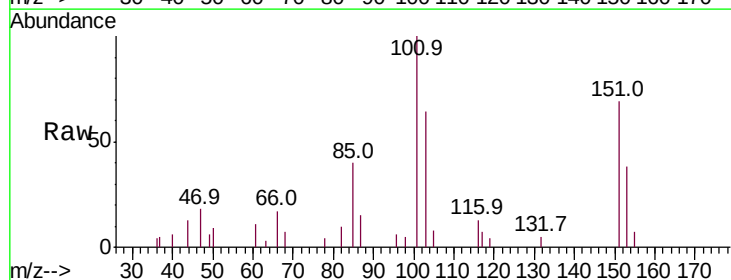
Instrument :  
MSVOA\_N  
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RE120D3-20200916

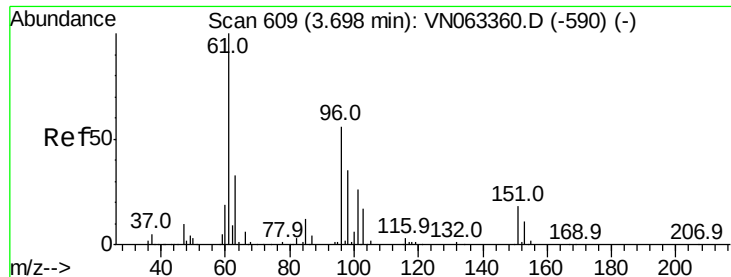
Tot Ion:168 Resp: 203332  
Ion Ratio Lower Upper  
168 100  
99 62.7 53.0 79.6



#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 5.478 ug/l  
RT: 3.73 min Scan# 618  
Delta R.T. 0.01 min  
Lab File: VN063598.D  
Acq: 23 Sep 2020 18:54

Tgt Ion:101 Resp: 12409  
Ion Ratio Lower Upper  
101 100  
85 14.1 37.7 56.5#  
151 73.2 57.7 86.5

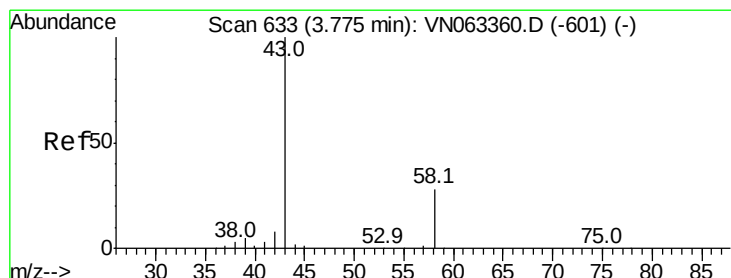
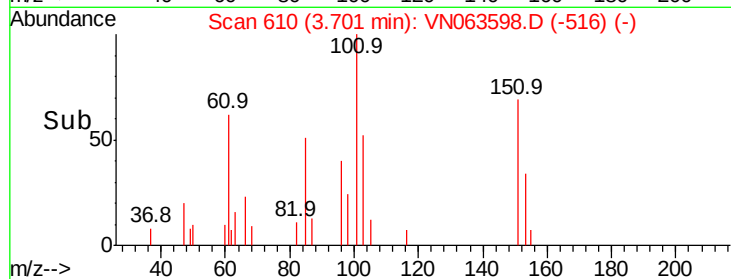
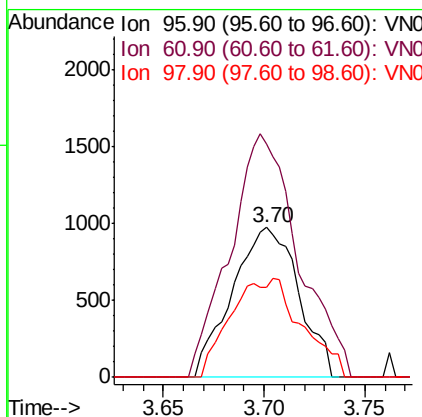
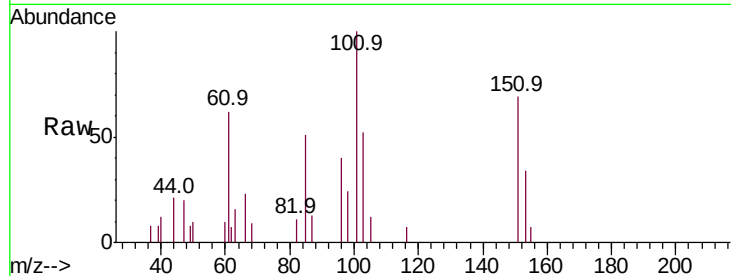




#12  
 1,1-Dichloroethene  
 Concen: 0.974 ug/l  
 RT: 3.70 min Scan# 610  
 Delta R.T. 0.00 min  
 Lab File: VN063598.D  
 Acq: 23 Sep 2020 18:54

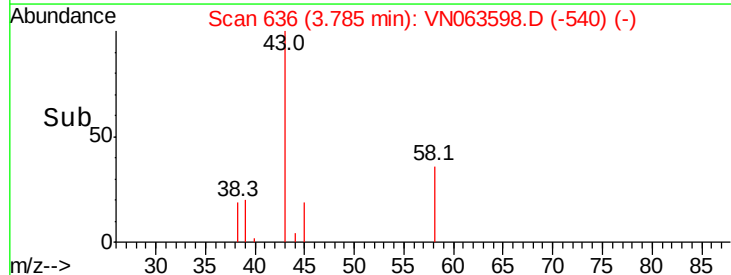
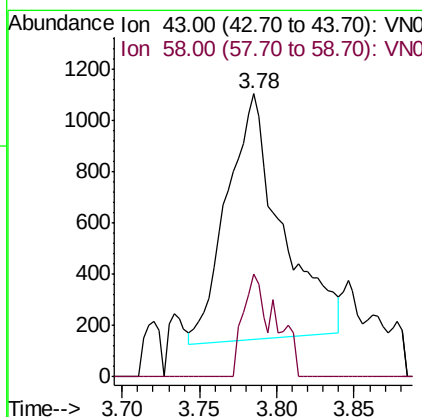
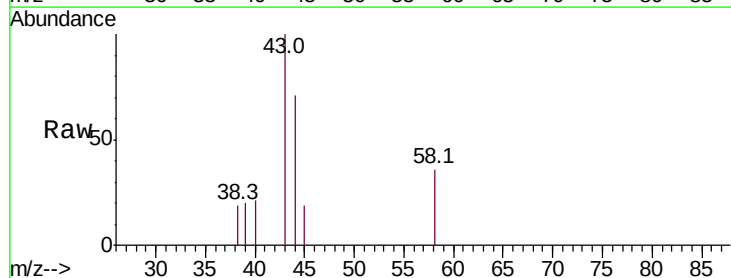
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 RE120D3-20200916

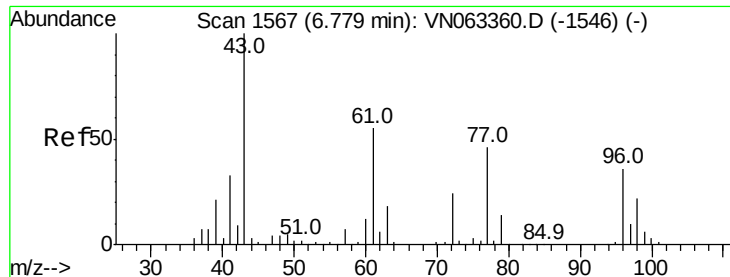
Tot Ion: 96 Resp: 2234  
 Ion Ratio Lower Upper  
 96 100  
 61 156.2 143.4 215.2  
 98 60.2 50.6 76.0



#16  
 Acetone  
 Concen: 2.108 ug/l  
 RT: 3.78 min Scan# 636  
 Delta R.T. 0.01 min  
 Lab File: VN063598.D  
 Acq: 23 Sep 2020 18:54

Tgt Ion: 43 Resp: 2345  
 Ion Ratio Lower Upper  
 43 100  
 58 43.2 22.3 33.5#





#27

cis-1,2-Dichloroethene

Concen: 0.390 ug/l

RT: 6.79 min Scan# 1571

Delta R.T. 0.01 min

Lab File: VN063598.D

Acq: 23 Sep 2020 18:54

Instrument :

MSVOA\_N

ClientSampleId :

RE120D3-20200916

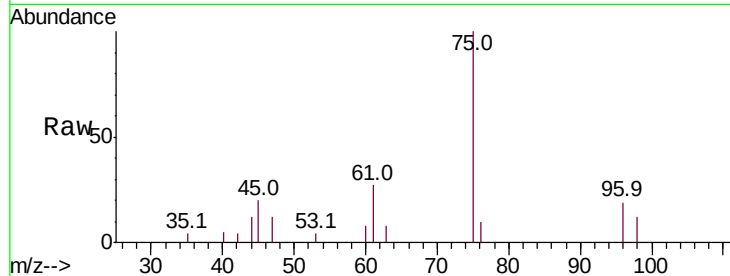
Tot Ion: 96 Resp: 1122

Ion Ratio Lower Upper

96 100

61 306.7 0.0 319.6

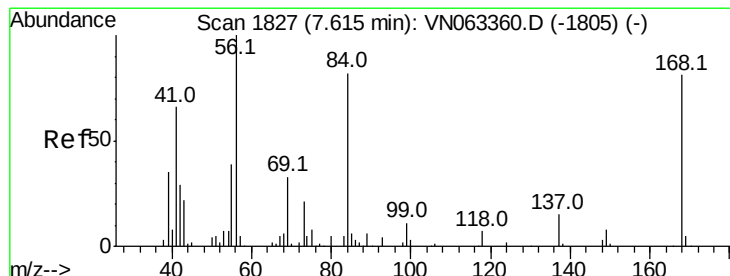
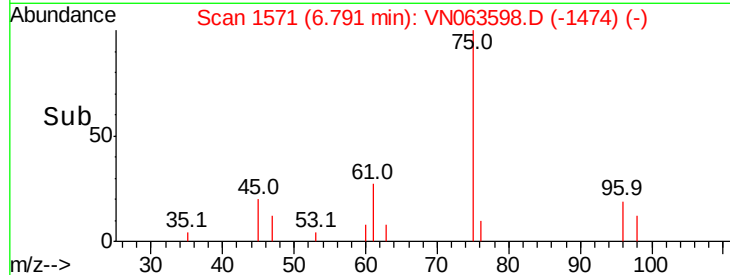
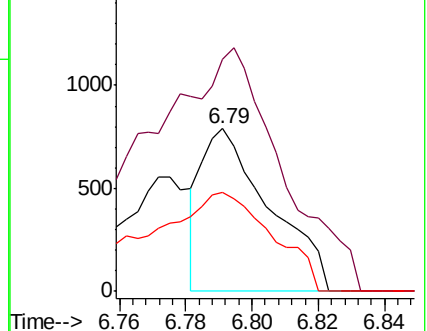
98 107.2 0.0 127.8



Abundance Ion 95.90 (95.60 to 96.60): VN063360.D (-1546) (-)

Ion 60.90 (60.60 to 61.60): VN063360.D (-1546) (-)

Ion 97.90 (97.60 to 98.60): VN063360.D (-1546) (-)



#31

Cyclohexane

Concen: 1.152 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN063598.D

Acq: 23 Sep 2020 18:54

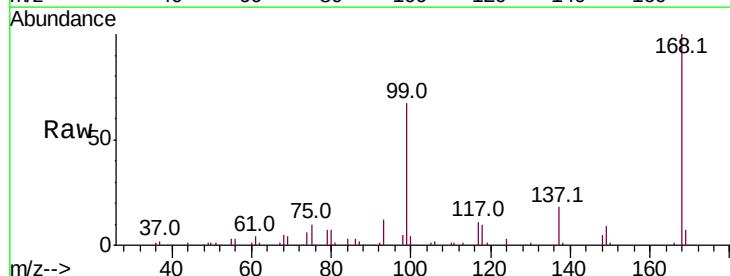
Tgt Ion: 56 Resp: 5506

Ion Ratio Lower Upper

56 100

69 132.8 26.1 39.1#

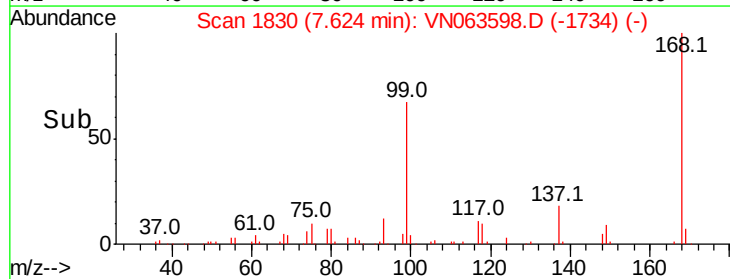
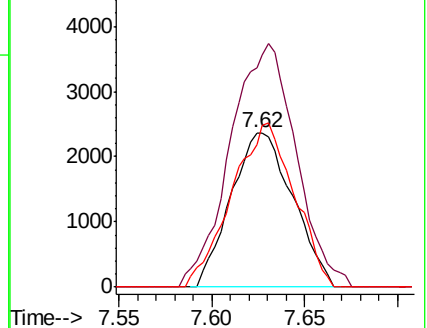
84 92.6 65.4 98.2

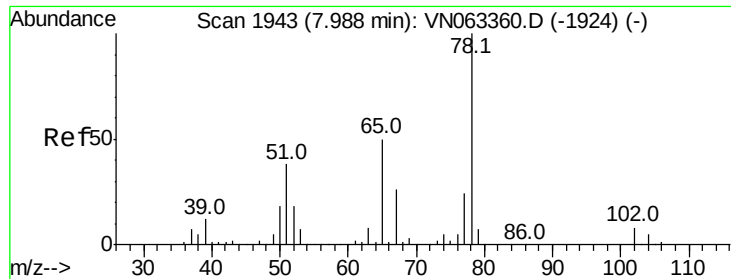


Abundance Ion 56.00 (55.70 to 56.70): VN063360.D (-1805) (-)

Ion 69.00 (68.70 to 69.70): VN063360.D (-1805) (-)

Ion 84.00 (83.70 to 84.70): VN063360.D (-1805) (-)

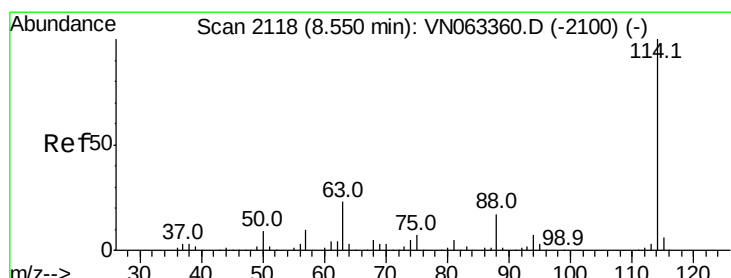
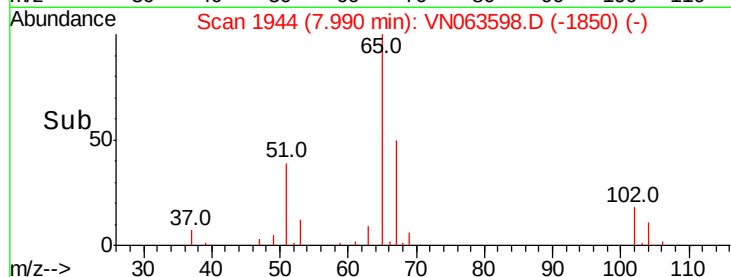
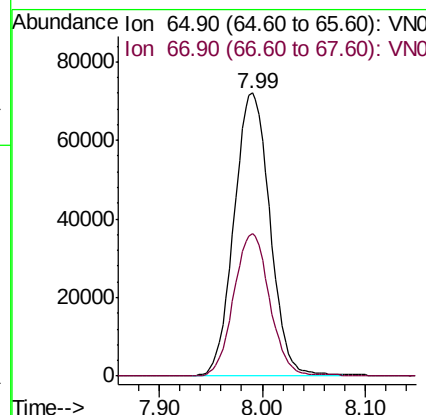
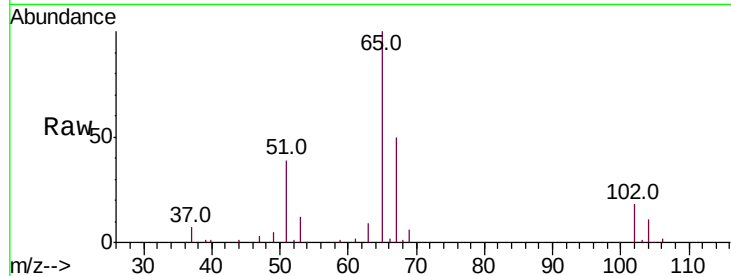




#33  
 1,2-Dichloroethane-d4  
 Concen: 50.509 ug/l  
 RT: 7.99 min Scan# 1944  
 Delta R.T. 0.00 min  
 Lab File: VN063598.D  
 Acq: 23 Sep 2020 18:54

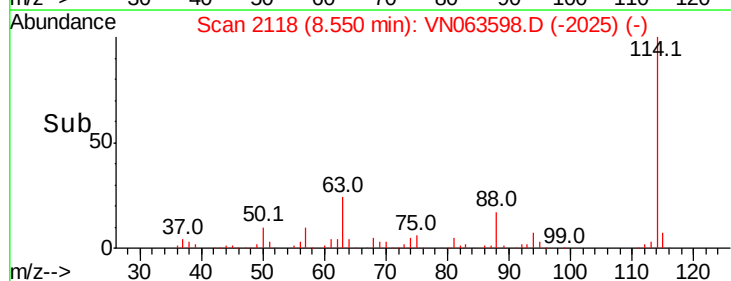
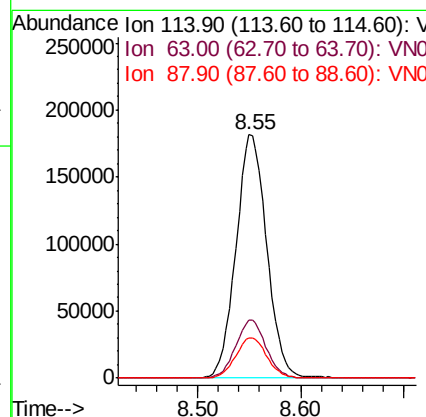
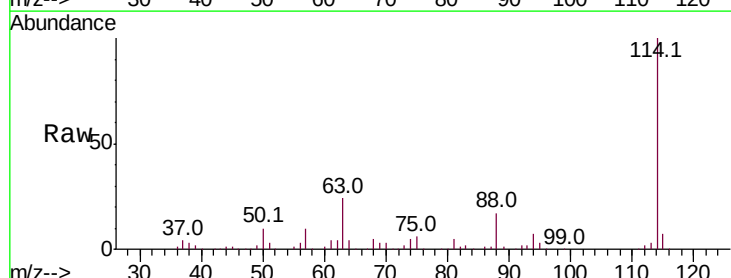
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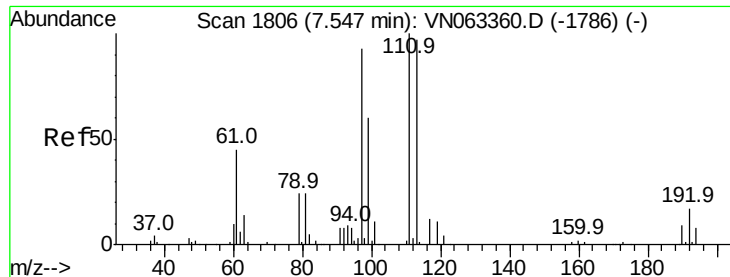
Tot Ion: 65 Resp: 174825  
 Ion Ratio Lower Upper  
 65 100  
 67 50.5 0.0 104.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.55 min Scan# 2118  
 Delta R.T. -0.00 min  
 Lab File: VN063598.D  
 Acq: 23 Sep 2020 18:54

Tgt Ion: 114 Resp: 377905  
 Ion Ratio Lower Upper  
 114 100  
 63 23.7 0.0 46.4  
 88 16.5 0.0 33.2

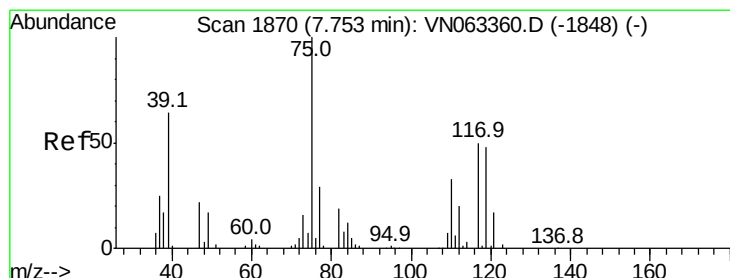
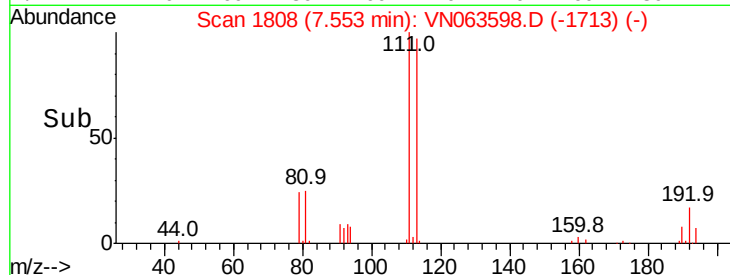
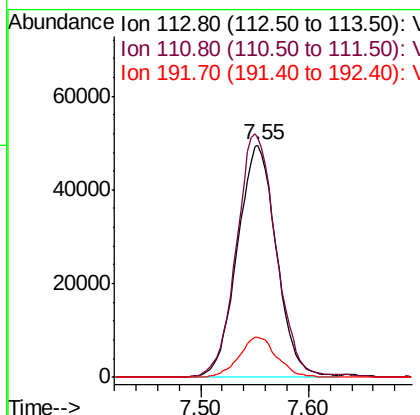
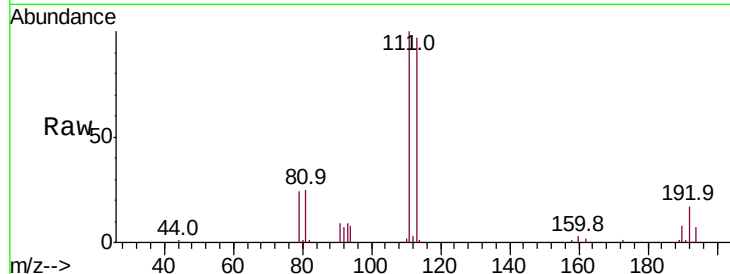




#35  
 Dibromofluoromethane  
 Concen: 47.610 ug/l  
 RT: 7.55 min Scan# 1808  
 Delta R.T. 0.01 min  
 Lab File: VN063598.D  
 Acq: 23 Sep 2020 18:54

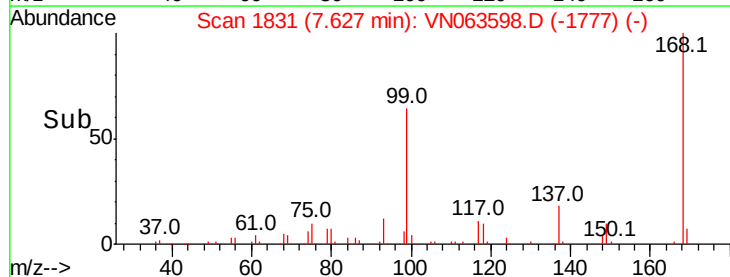
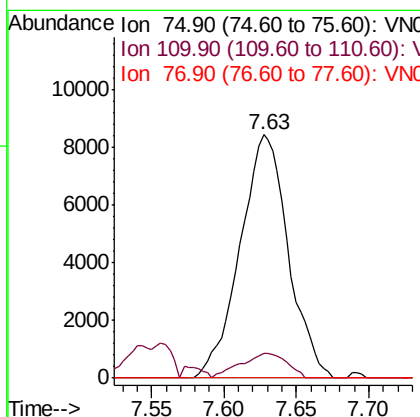
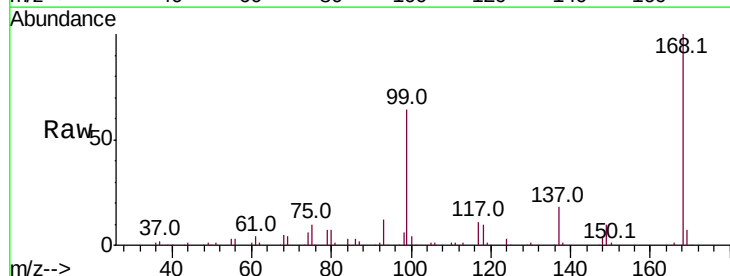
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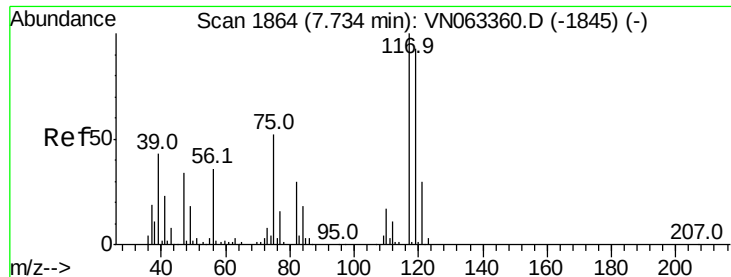
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 105.8 | 82.9  | 124.3 |
| 192     | 16.6  | 13.9  | 20.9  |



#36  
 1,1-Dichloropropene  
 Concen: 4.839 ug/l  
 RT: 7.63 min Scan# 1831  
 Delta R.T. -0.13 min  
 Lab File: VN063598.D  
 Acq: 23 Sep 2020 18:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.8   | 16.5  | 49.5# |
| 77      | 0.0   | 24.6  | 36.8# |





#38

Carbon Tetrachloride

Concen: 5.492 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. -0.10 min

Lab File: VN063598.D

Acq: 23 Sep 2020 18:54

Instrument :

MSVOA\_N

ClientSampleId :

RE120D3-20200916

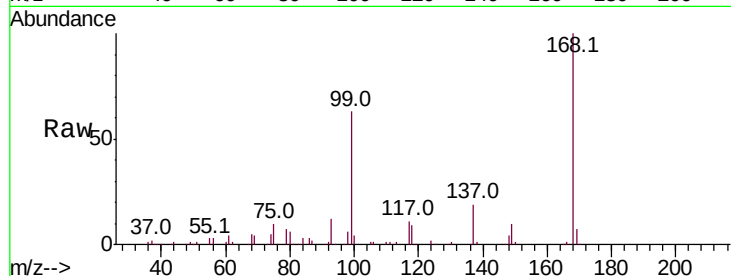
Tot Ion:117 Resp: 22572

Ion Ratio Lower Upper

117 100

119 4.2 74.5 111.7#

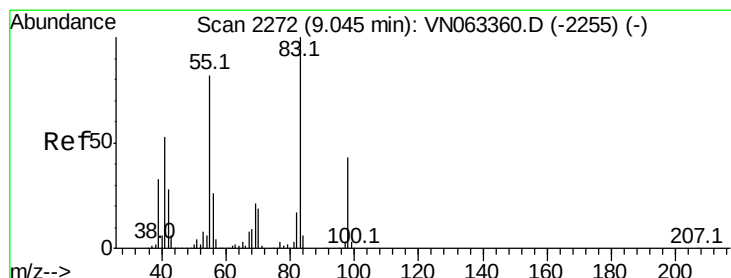
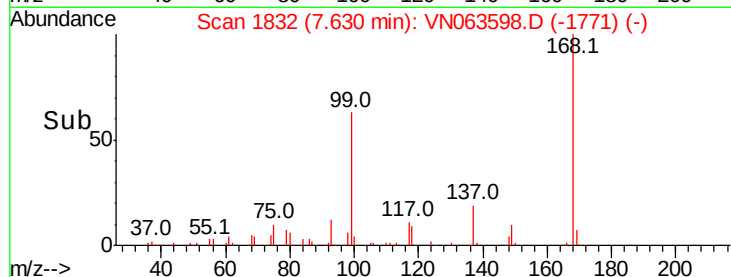
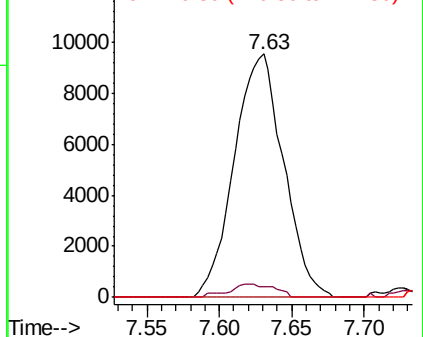
121 0.0 24.1 36.1#



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: 1.544 ug/l

RT: 8.80 min Scan# 2196

Delta R.T. -0.24 min

Lab File: VN063598.D

Acq: 23 Sep 2020 18:54

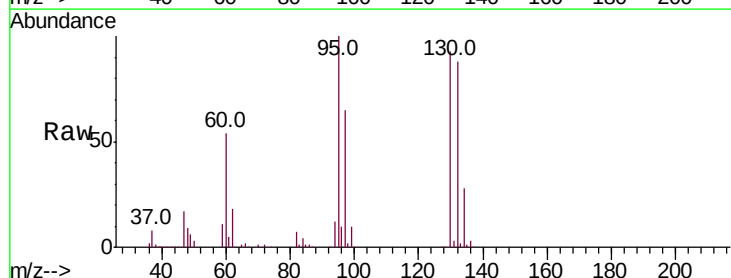
Tgt Ion: 83 Resp: 6745

Ion Ratio Lower Upper

83 100

55 0.0 65.5 98.3#

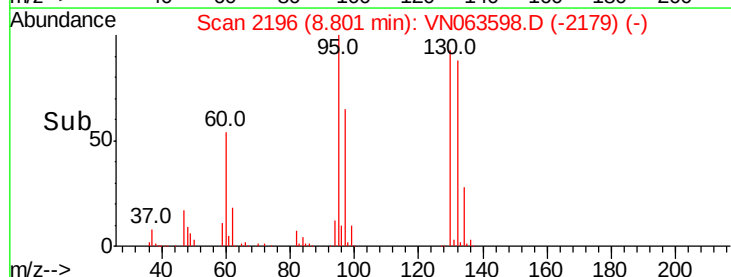
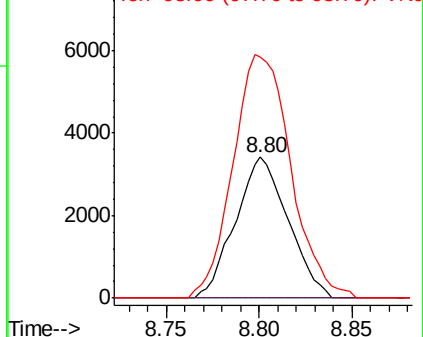
98 171.6 34.2 51.4#



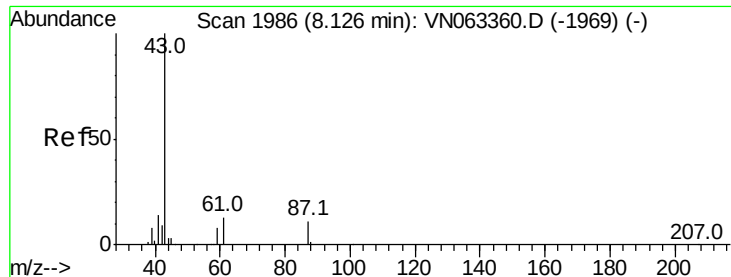
Abundance Ion 83.00 (82.70 to 83.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 98.00 (97.70 to 98.70): V







#43

Isopropyl Acetate

Concen: 0.532 ug/l

RT: 8.33 min Scan# 2051

Delta R.T. 0.21 min

Lab File: VN063598.D

Acq: 23 Sep 2020 18:54

Instrument :

MSVOA\_N

ClientSampleId :

RE120D3-20200916

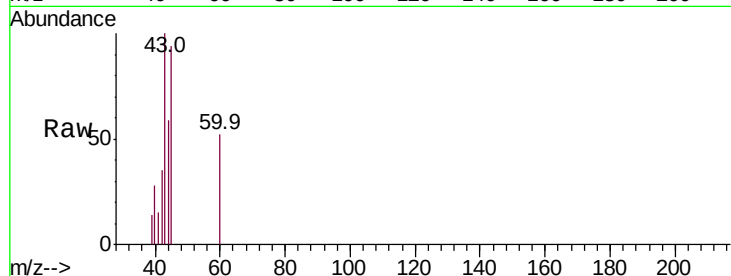
Tot Ion: 43 Resp: 3761

Ion Ratio Lower Upper

43 100

61 0.0 14.2 21.2#

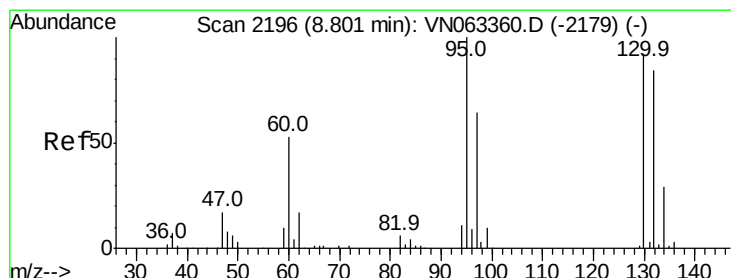
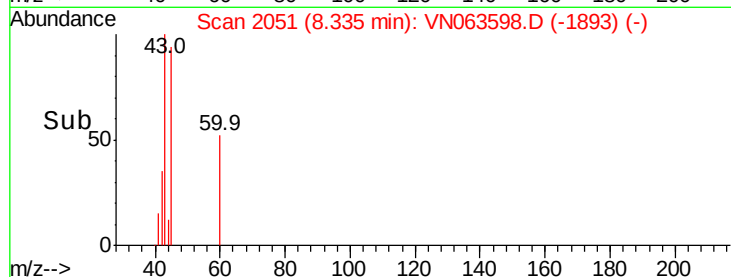
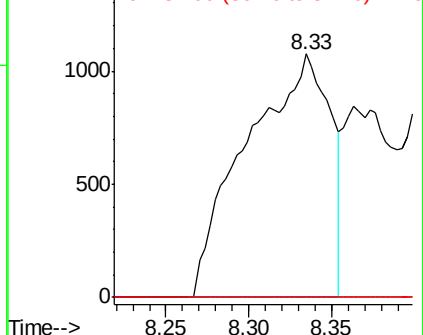
87 0.0 9.0 13.6#



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-1969) (-)

Ion 61.00 (60.70 to 61.70): VN063360.D (-1969) (-)

Ion 87.00 (86.70 to 87.70): VN063360.D (-1969) (-)



#44

Trichloroethene

Concen: 172.899 ug/l

RT: 8.80 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN063598.D

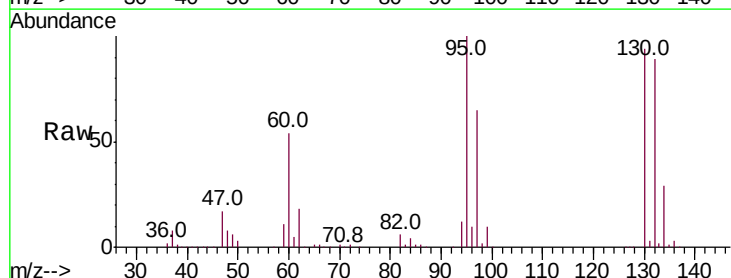
Acq: 23 Sep 2020 18:54

Tgt Ion:130 Resp: 481964

Ion Ratio Lower Upper

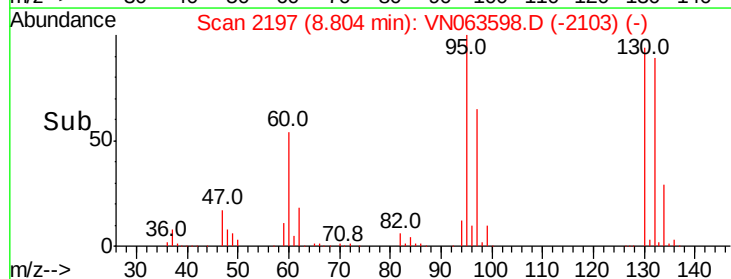
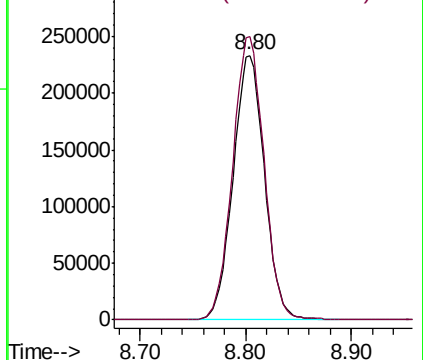
130 100

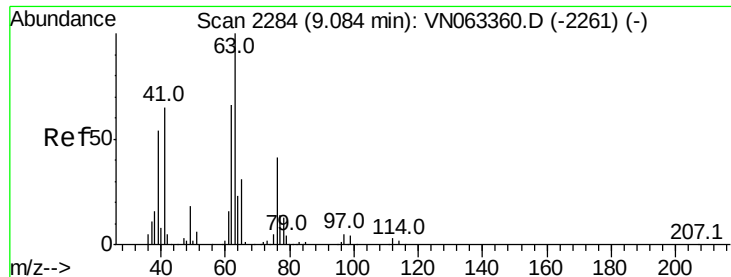
95 106.9 0.0 217.4



Abundance Ion 129.80 (129.50 to 130.50): VN063360.D (-2179) (-)

Ion 94.90 (94.60 to 95.60): VN063360.D (-2179) (-)

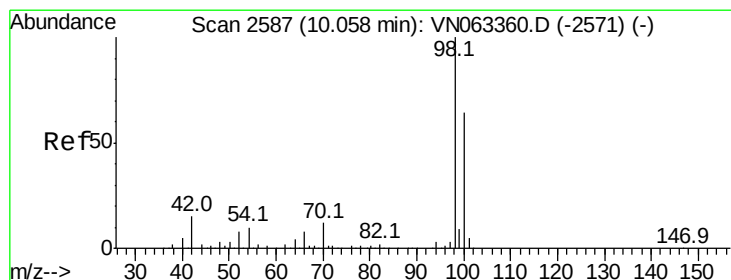
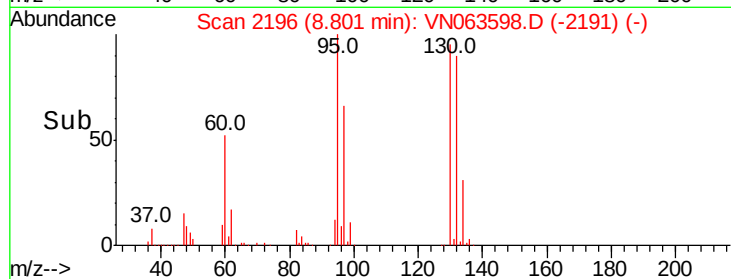
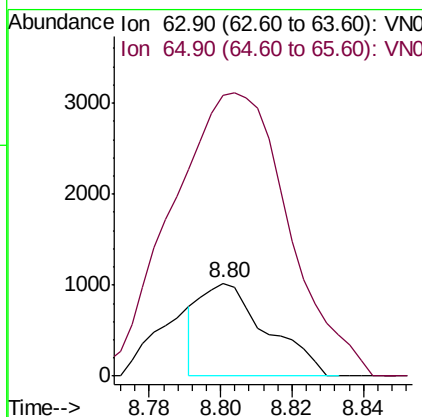
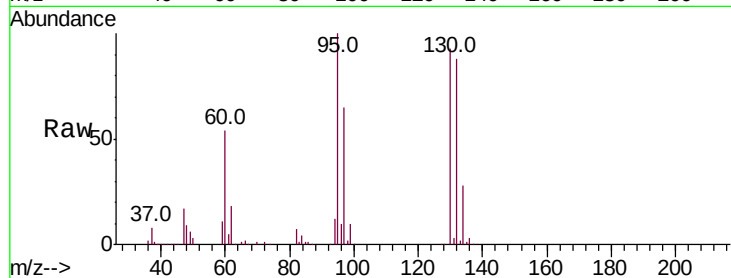




#45  
 1,2-Dichloropropane  
 Concen: 0.422 ug/l  
 RT: 8.80 min Scan# 2196  
 Delta R.T. -0.28 min  
 Lab File: VN063598.D  
 Acq: 23 Sep 2020 18:54

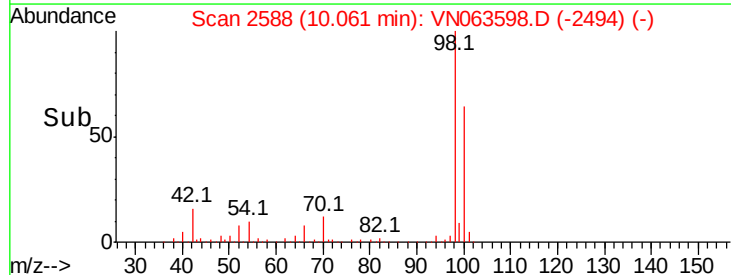
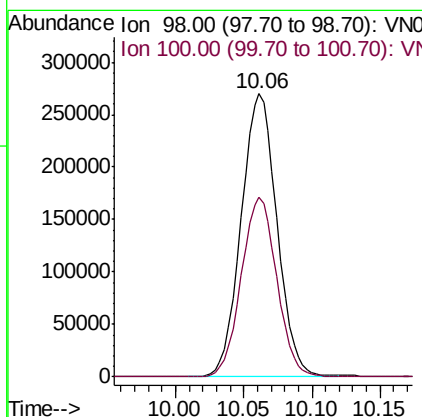
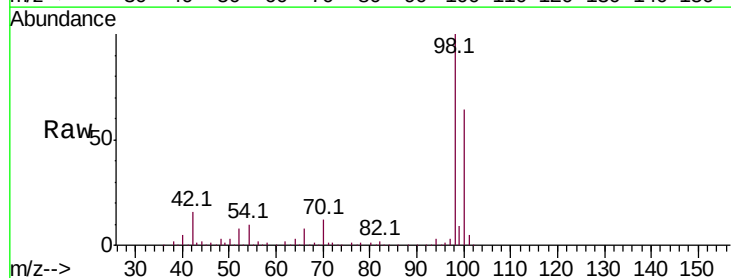
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 RE120D3-20200916

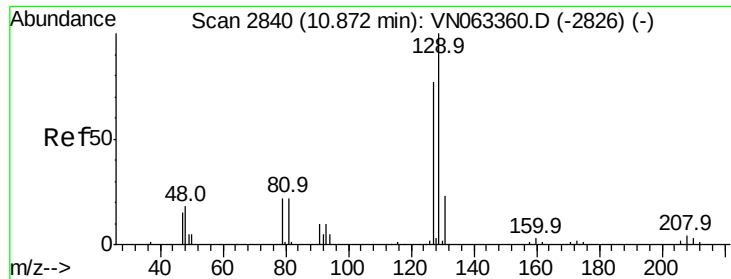
Tot Ion: 63 Resp: 1322  
 Ion Ratio Lower Upper  
 63 100  
 65 256.5 25.0 37.6#



#50  
 Toluene-d8  
 Concen: 50.019 ug/l  
 RT: 10.06 min Scan# 2588  
 Delta R.T. 0.00 min  
 Lab File: VN063598.D  
 Acq: 23 Sep 2020 18:54

Tgt Ion: 98 Resp: 492045  
 Ion Ratio Lower Upper  
 98 100  
 100 63.3 50.7 76.1





#60

Dibromochloromethane

Concen: 0.695 ug/l

RT: 10.61 min Scan# 2758

Delta R.T. -0.26 min

Lab File: VN063598.D

Acq: 23 Sep 2020 18:54

Instrument :

MSVOA\_N

ClientSampleId :

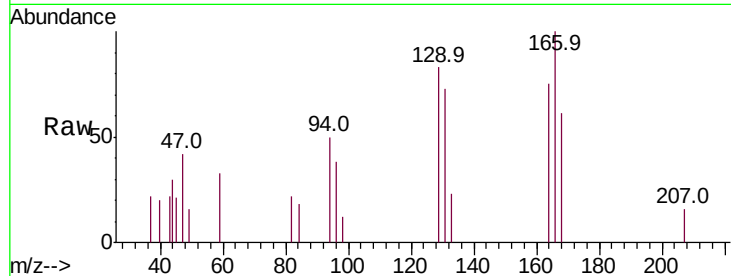
RE120D3-20200916

Tot Ion:129 Resp: 2154

Ion Ratio Lower Upper

129 100

127 0.0 39.1 117.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

10.61

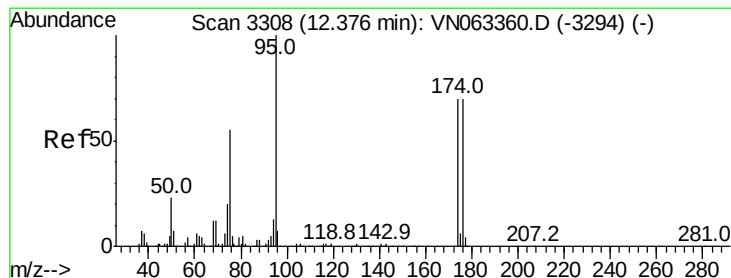
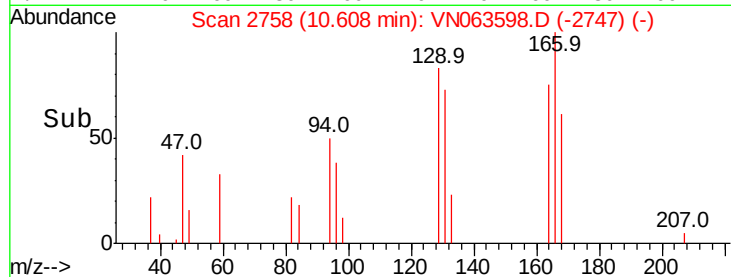
1500

1000

500

0

Time-->



#62

4-Bromofluorobenzene

Concen: 53.085 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063598.D

Acq: 23 Sep 2020 18:54

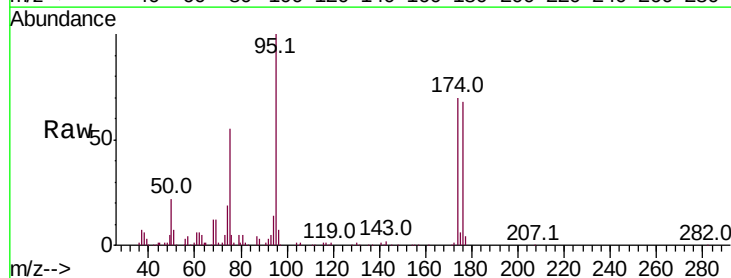
Tgt Ion: 95 Resp: 191433

Ion Ratio Lower Upper

95 100

174 71.8 0.0 140.8

176 69.0 0.0 137.6



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.38

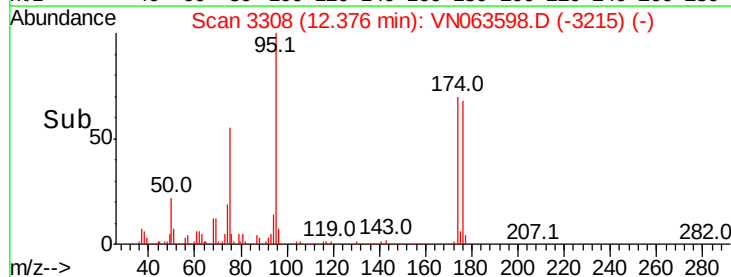
150000

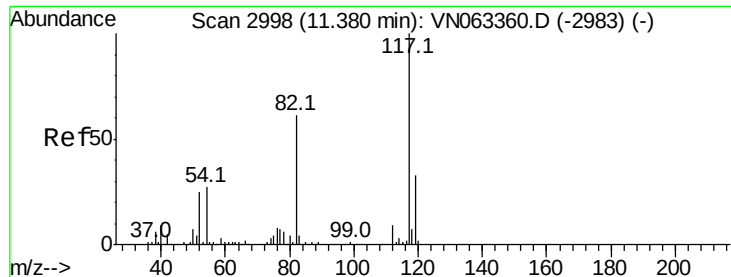
100000

50000

0

Time-->





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2999

Delta R.T. 0.00 min

Lab File: VN063598.D

Acq: 23 Sep 2020 18:54

Instrument :

MSVOA\_N

ClientSampleId :

RE120D3-20200916

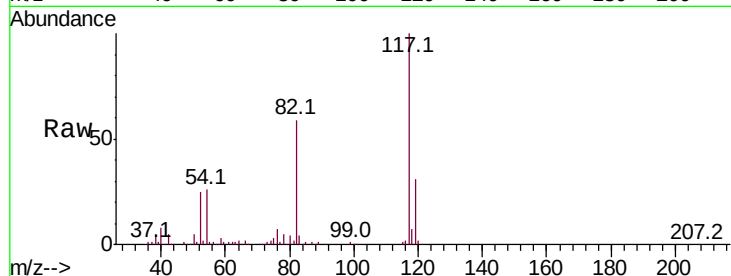
Tot Ion:117 Resp: 386604

Ion Ratio Lower Upper

117 100

82 59.4 49.2 73.8

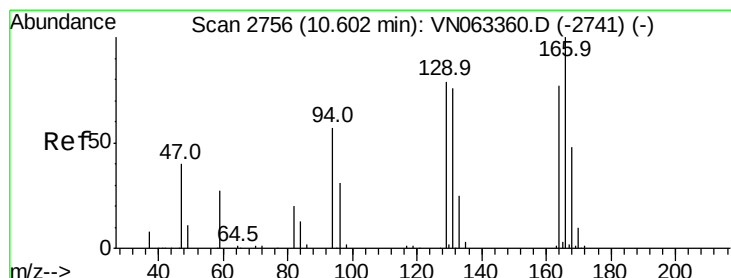
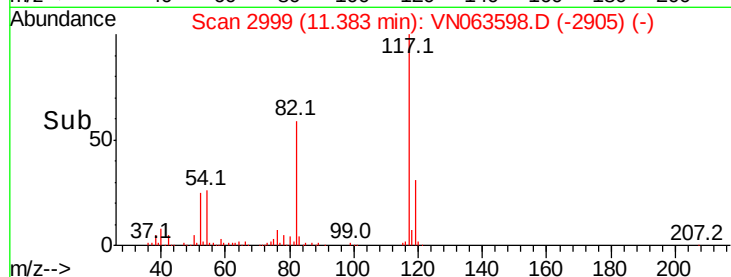
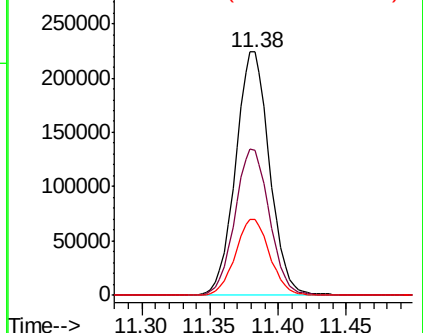
119 31.3 26.2 39.4



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



#64

Tetrachloroethene

Concen: 0.799 ug/l

RT: 10.60 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VN063598.D

Acq: 23 Sep 2020 18:54

Tgt Ion:164 Resp: 2104

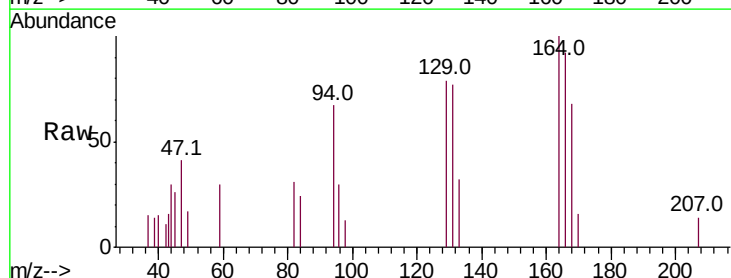
Ion Ratio Lower Upper

164 100

166 92.3 103.4 155.0#

129 78.6 81.8 122.6#

131 77.2 78.2 117.4#

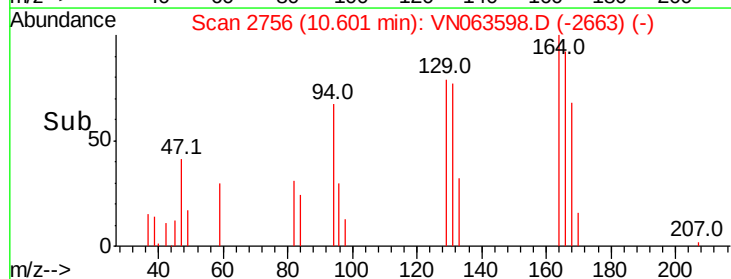
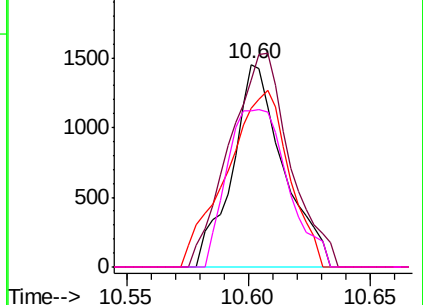


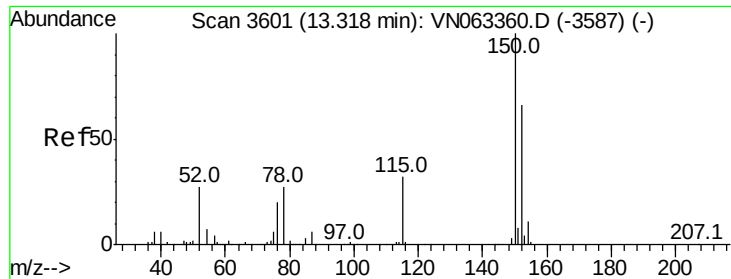
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VN063598.D

Acq: 23 Sep 2020 18:54

Instrument :

MSVOA\_N

ClientSampleId :

RE120D3-20200916

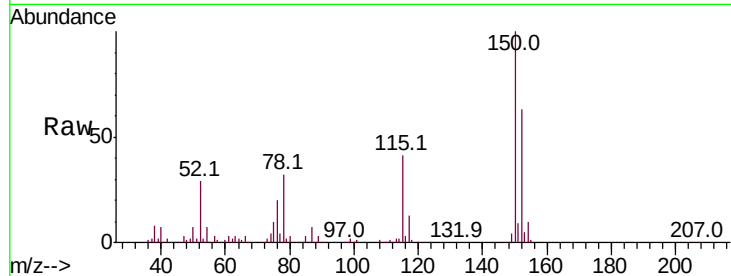
Tot Ion:152 Resp: 163324

Ion Ratio Lower Upper

152 100

115 64.2 32.2 96.6

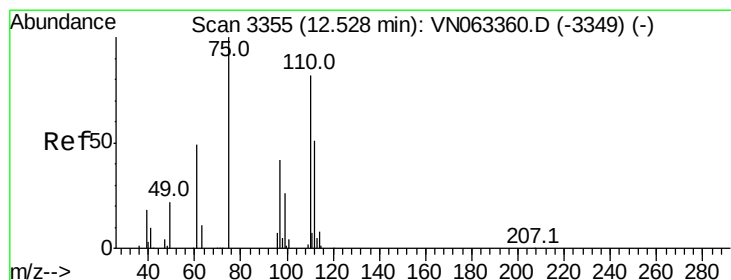
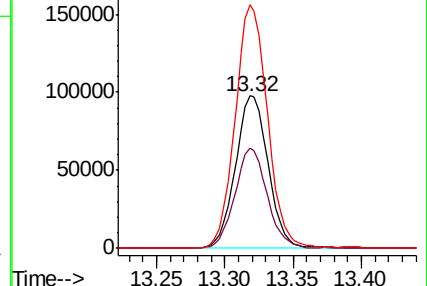
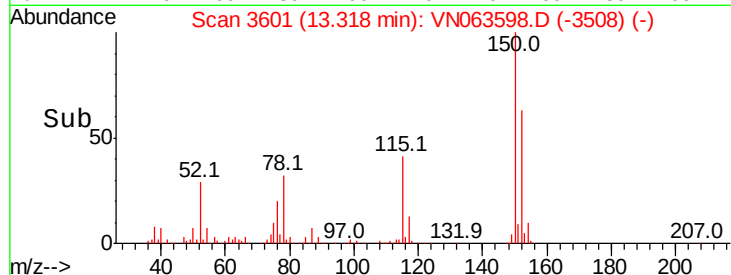
150 157.3 0.0 343.4



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: 26.485 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063598.D

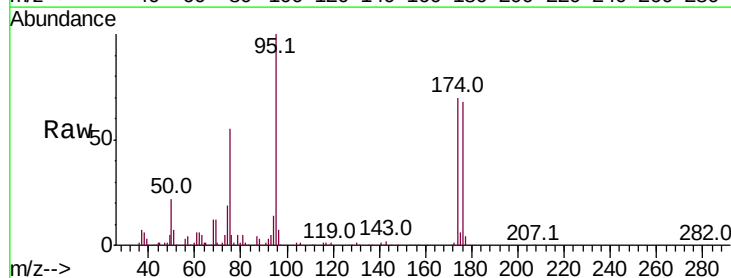
Acq: 23 Sep 2020 18:54

Tgt Ion: 75 Resp: 107067

Ion Ratio Lower Upper

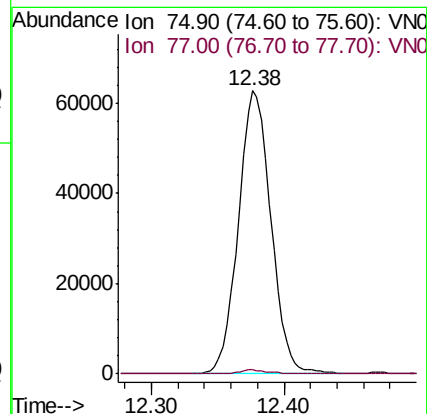
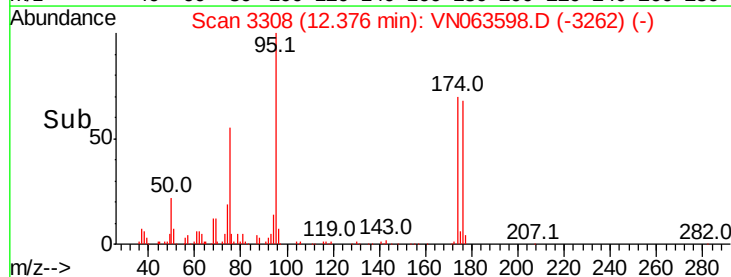
75 100

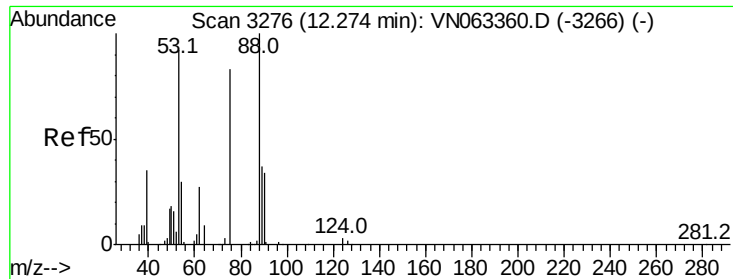
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 72.613 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063598.D

Acq: 23 Sep 2020 18:54

Instrument :

MSVOA\_N

ClientSampleId :

RE120D3-20200916

Tot Ion: 75 Resp: 107067

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#

