

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091820\  
 Data File : VN063462.D  
 Acq On : 18 Sep 2020 17:01  
 Operator : JC/MD  
 Sample : L3871-17  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TR-05-091720

Quant Time: Sep 21 01:35:53 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  | 241280   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 445092   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 445646   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 191112   | 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   | 194310   | 47.31 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 94.62%  |          |
| 35) Dibromofluoromethane    | 7.55  | 113  | 142223   | 46.16 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 92.32%  |          |
| 50) Toluene-d8              | 10.06 | 98   | 576172   | 49.73 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 99.46%  |          |
| 62) 4-Bromofluorobenzene    | 12.38 | 95   | 232035   | 54.63 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 109.26% |          |

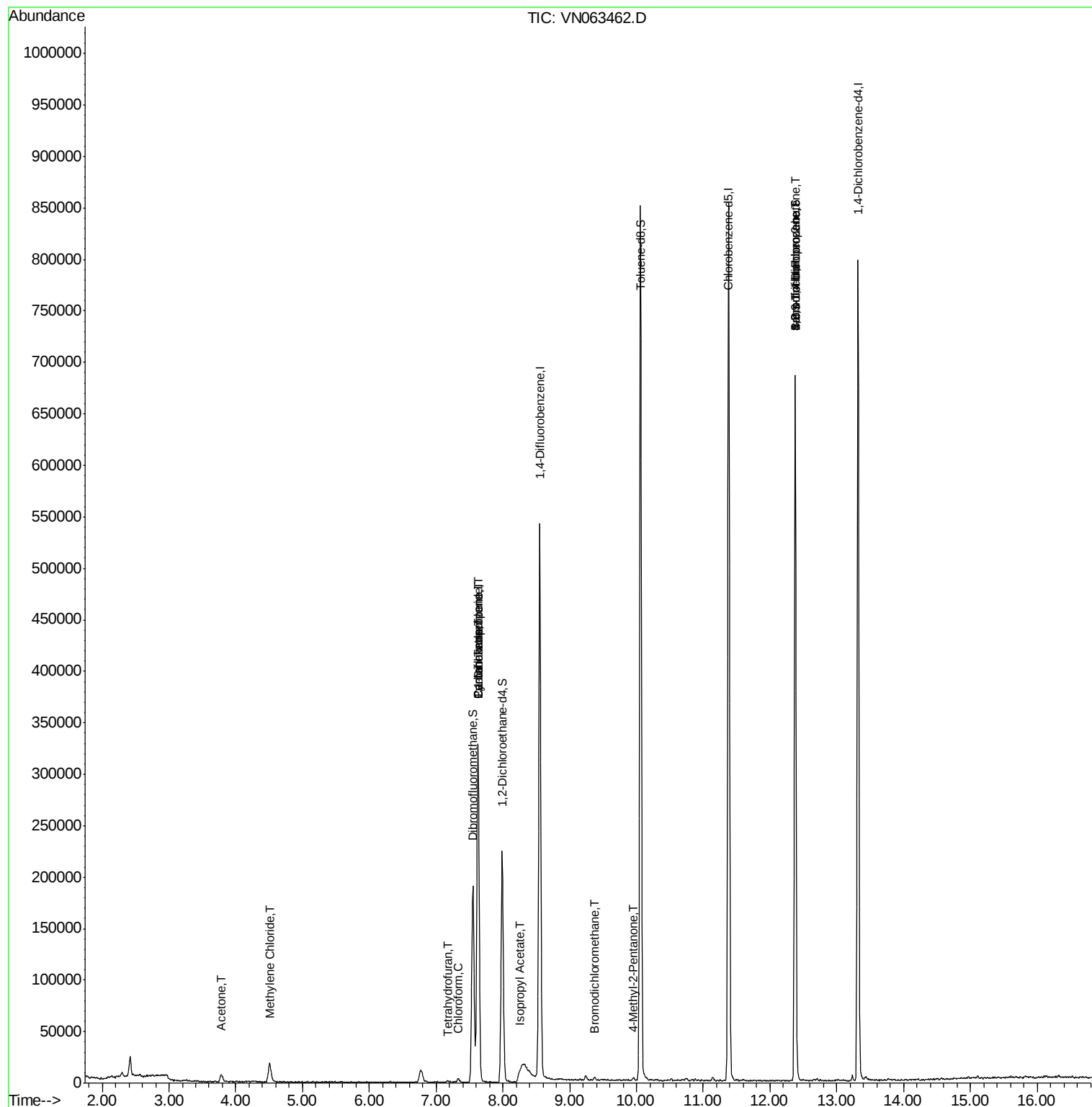
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 16) Acetone                    | 3.78  | 43   | 11196    | 8.482  | ug/l   | 96     |
| 20) Methylene Chloride         | 4.50  | 84   | 11829    | 3.537  | ug/l   | 90     |
| 29) Tetrahydrofuran            | 7.17  | 42   | 438      | 0.316  | ug/l # | 57     |
| 30) Chloroform                 | 7.32  | 83   | 4033     | 0.670  | ug/l   | 85     |
| 31) Cyclohexane                | 7.62  | 56   | 6706     | 1.182  | ug/l # | 21     |
| 36) 1,1-Dichloropropene        | 7.63  | 75   | 22924    | 4.834  | ug/l # | 47     |
| 38) Carbon Tetrachloride       | 7.63  | 117  | 26891    | 5.555  | ug/l # | 18     |
| 43) Isopropyl Acetate          | 8.24  | 43   | 5863     | 0.705  | ug/l # | 64     |
| 47) Bromodichloromethane       | 9.37  | 83   | 1513     | 0.301  | ug/l # | 94     |
| 51) 4-Methyl-2-Pentanone       | 9.96  | 43   | 1776     | 0.381  | ug/l # | 84     |
| 71) Bromoform                  | 12.38 | 173  | 1349     | 0.522  | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.38 | 75   | 125495   | 26.530 | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 125495   | 72.735 | ug/l # | 7      |

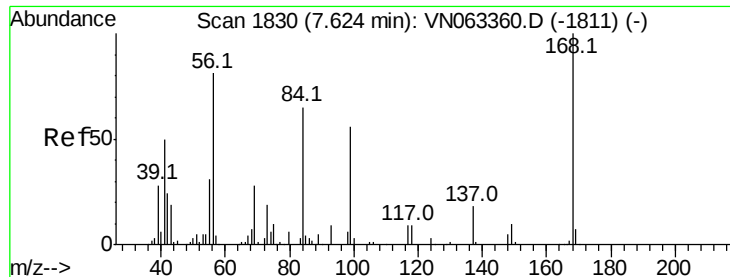
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN091820\  
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ALS Vial : 17 Sample Multiplier: 1

Instrument :  
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Quant Time: Sep 21 01:35:53 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N091620W.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 16 13:05:20 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063462.D

Acq: 18 Sep 2020 17:01

Instrument :

MSVOA\_N

ClientSampleId :

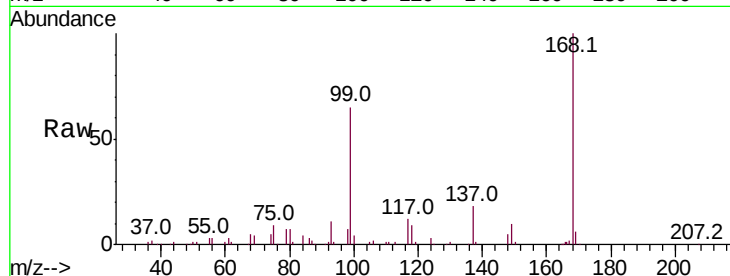
TR-05-091720

Tot Ion:168 Resp: 241280

Ion Ratio Lower Upper

168 100

99 64.5 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

100000

80000

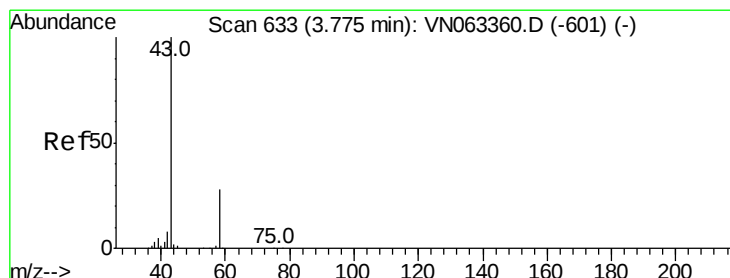
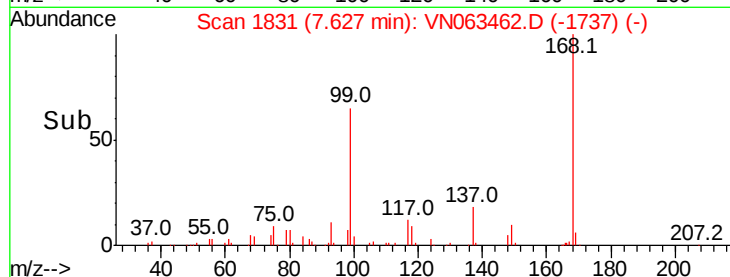
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#16

Acetone

Concen: 8.482 ug/l

RT: 3.78 min Scan# 633

Delta R.T. -0.00 min

Lab File: VN063462.D

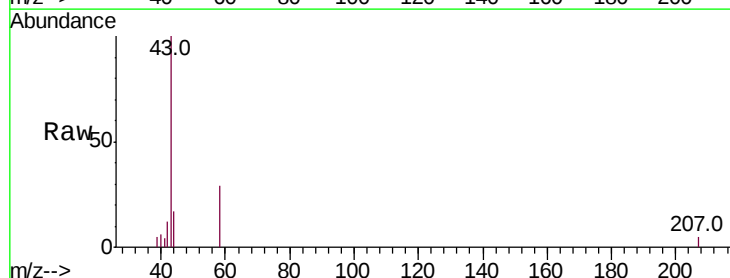
Acq: 18 Sep 2020 17:01

Tgt Ion: 43 Resp: 11196

Ion Ratio Lower Upper

43 100

58 30.2 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.78

5000

4000

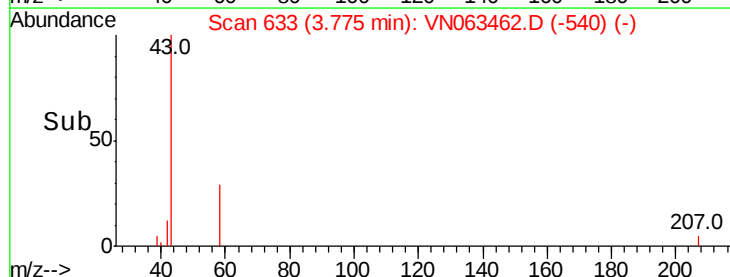
3000

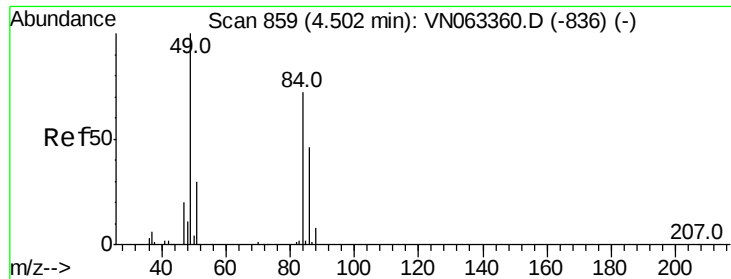
2000

1000

0

Time--> 3.70 3.75 3.80 3.85

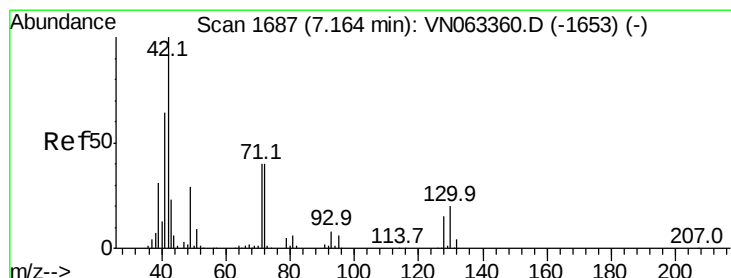
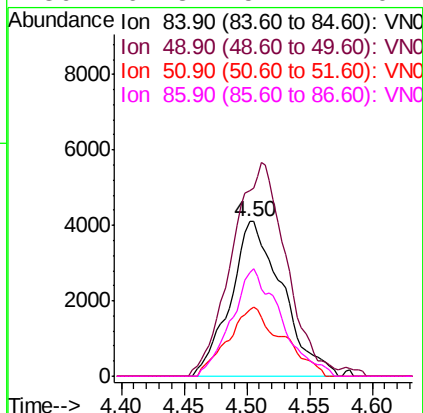
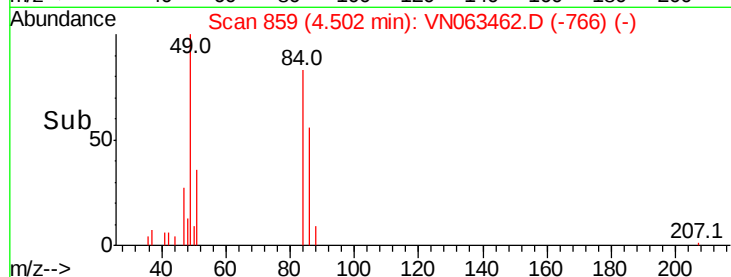
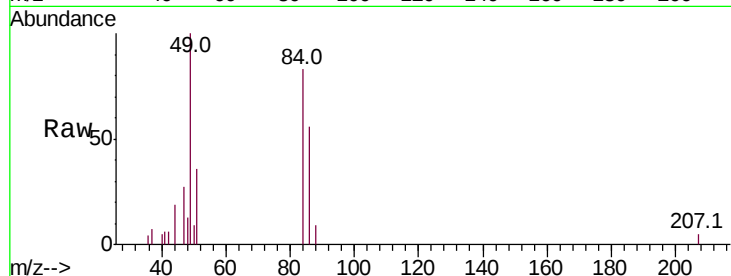




#20  
Methvlene Chloride  
Concen: 3.537 ug/l  
RT: 4.50 min Scan# 859  
Delta R.T. -0.00 min  
Lab File: VN063462.D  
Acq: 18 Sep 2020 17:01

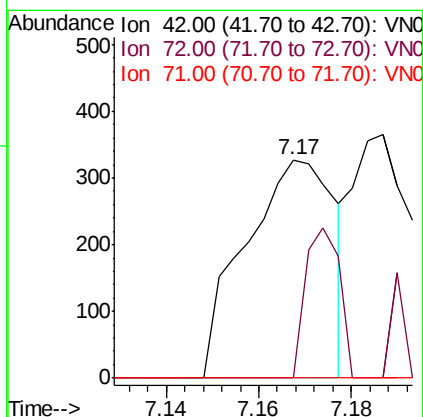
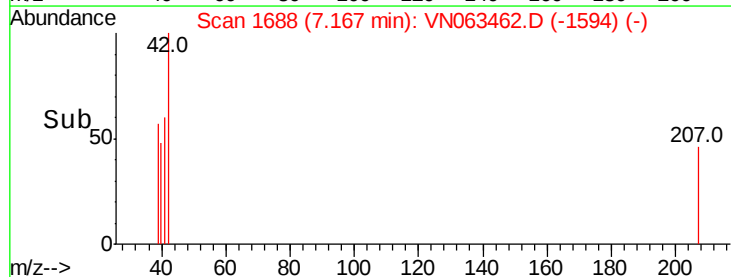
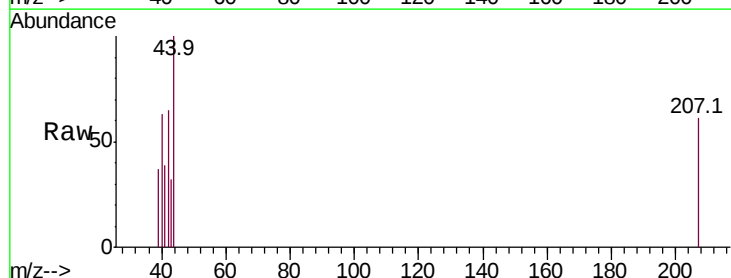
Instrument :  
MSVOA\_N  
ClientSampleId :  
TR-05-091720

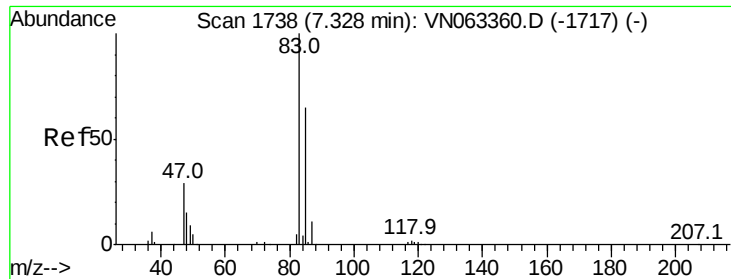
| Tot Ion: | 84    | Resp: | 11829 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 120.2 | 110.7 | 166.1 |
| 51       | 42.7  | 32.9  | 49.3  |
| 86       | 67.3  | 51.1  | 76.7  |



#29  
Tetrahydrofuran  
Concen: 0.316 ug/l  
RT: 7.17 min Scan# 1688  
Delta R.T. 0.00 min  
Lab File: VN063462.D  
Acq: 18 Sep 2020 17:01

| Tgt Ion: | 42    | Resp: | 438   |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 26.5  | 32.1  | 48.1# |
| 71       | 0.0   | 31.2  | 46.8# |





#30

Chloroform

Concen: 0.670 ug/l

RT: 7.32 min Scan# 1736

Delta R.T. -0.01 min

Lab File: VN063462.D

Acq: 18 Sep 2020 17:01

Instrument :

MSVOA\_N

ClientSampleId :

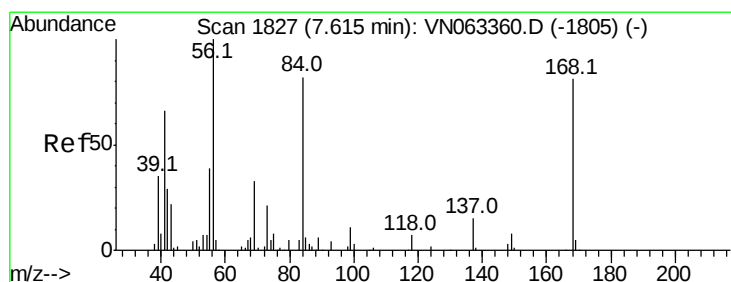
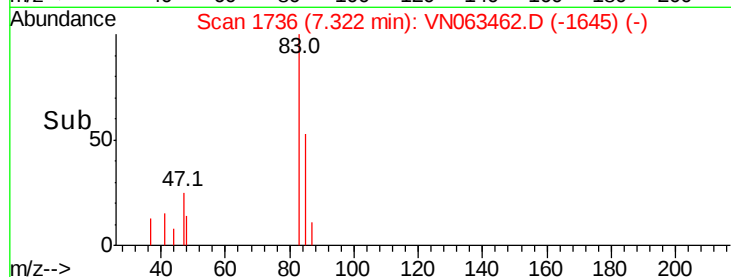
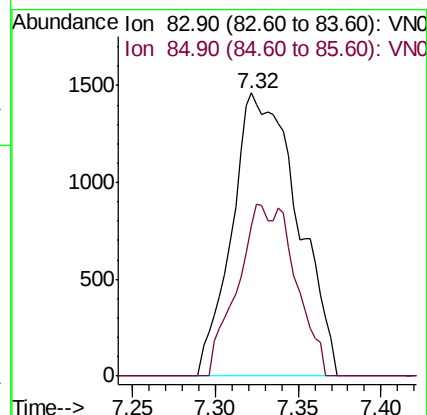
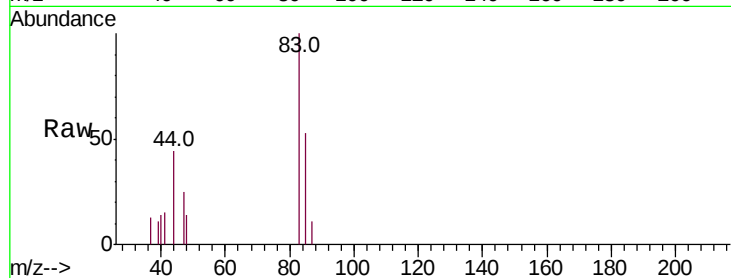
TR-05-091720

Tot Ion: 83 Resp: 4033

Ion Ratio Lower Upper

83 100

85 53.3 52.1 78.1



#31

Cyclohexane

Concen: 1.182 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN063462.D

Acq: 18 Sep 2020 17:01

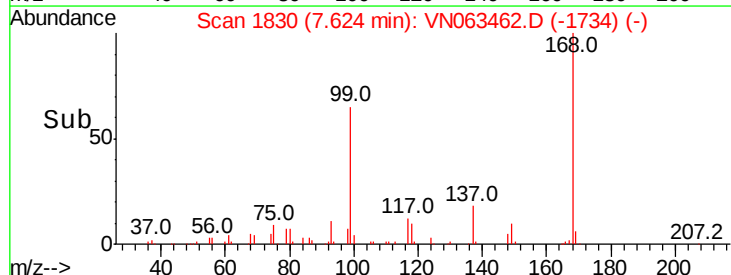
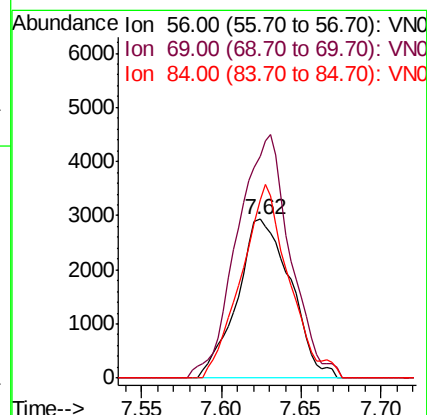
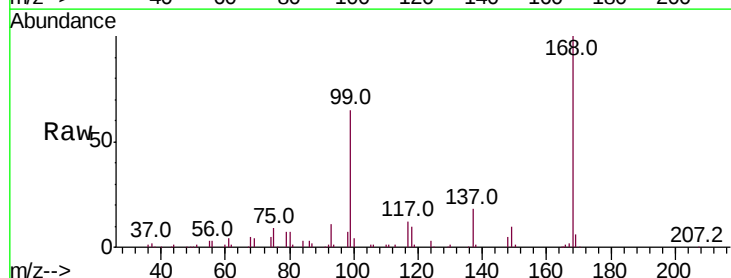
Tgt Ion: 56 Resp: 6706

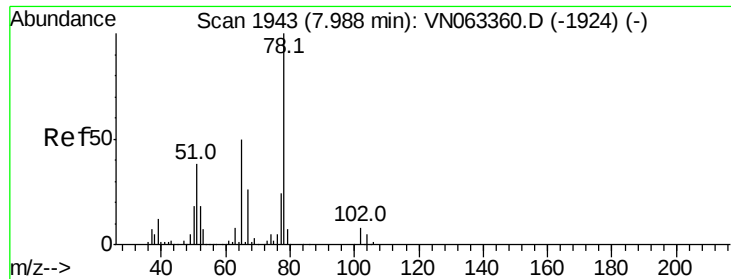
Ion Ratio Lower Upper

56 100

69 139.5 26.1 39.1#

84 112.3 65.4 98.2#





#33

1,2-Dichloroethane-d4

Concen: 47.309 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

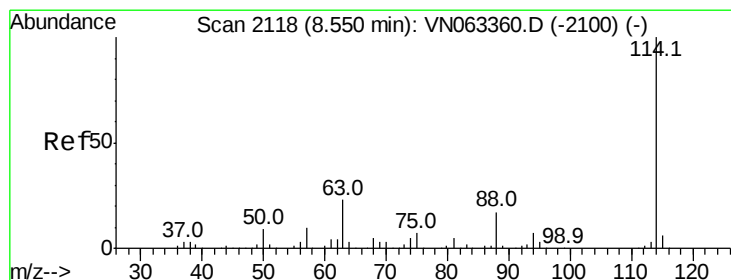
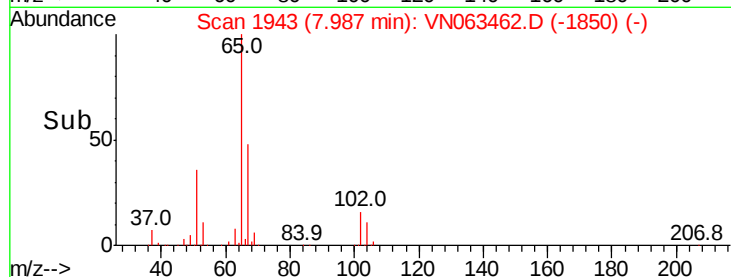
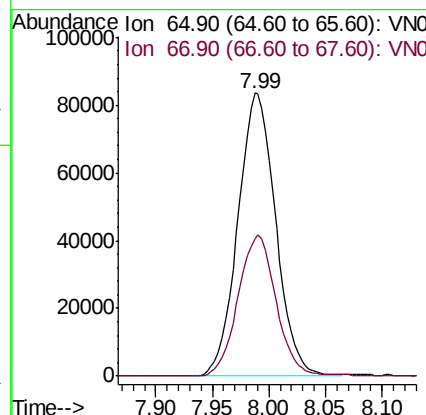
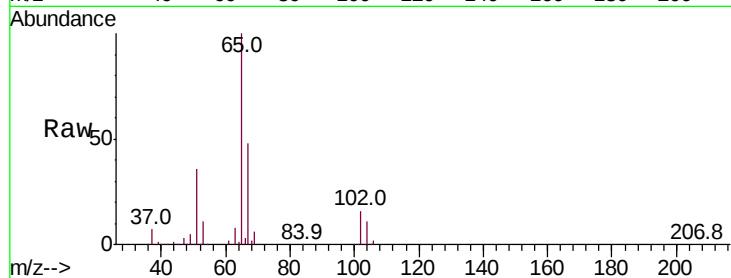
Lab File: VN063462.D

Acq: 18 Sep 2020 17:01

Instrument :  
MSVOA\_N  
ClientSampleId :  
TR-05-091720

Tot Ion: 65 Resp: 194310

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 65  | 100   |       |       |
| 67  | 50.1  | 0.0   | 104.2 |



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2119

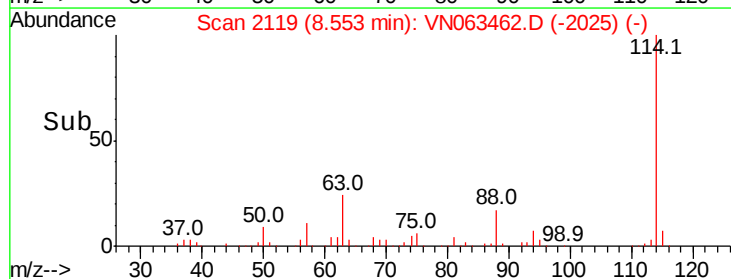
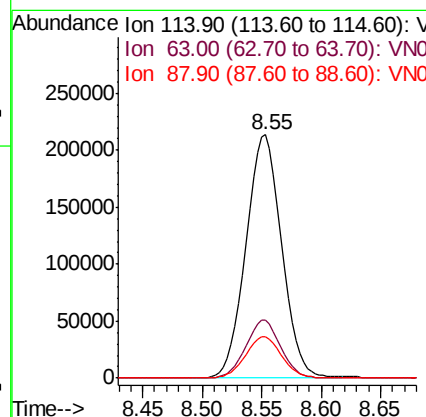
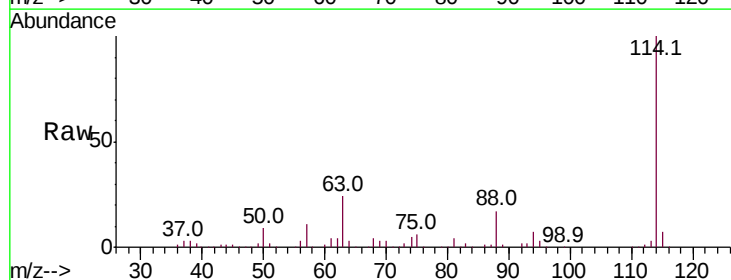
Delta R.T. 0.00 min

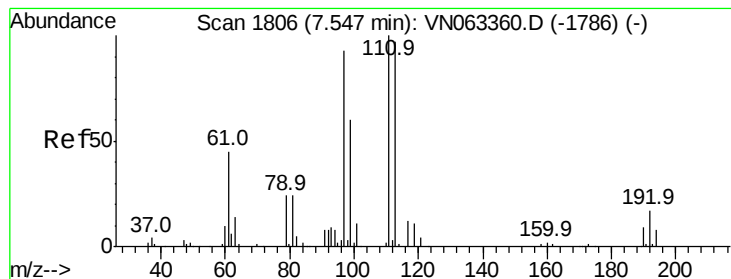
Lab File: VN063462.D

Acq: 18 Sep 2020 17:01

Tgt Ion: 114 Resp: 445092

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 23.8  | 0.0   | 46.4  |
| 88  | 16.8  | 0.0   | 33.2  |





#35

Dibromofluoromethane

Concen: 46.157 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063462.D

Acq: 18 Sep 2020 17:01

Instrument :

MSVOA\_N

ClientSampleId :

TR-05-091720

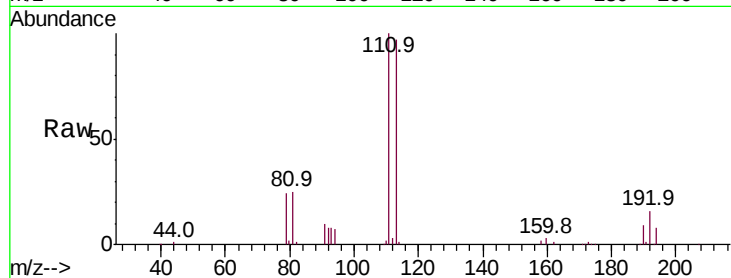
Tot Ion:113 Resp: 142223

Ion Ratio Lower Upper

113 100

111 102.9 82.9 124.3

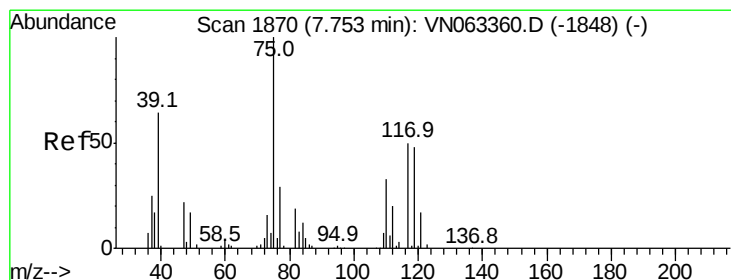
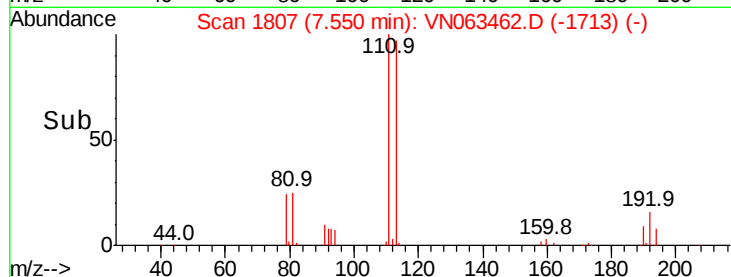
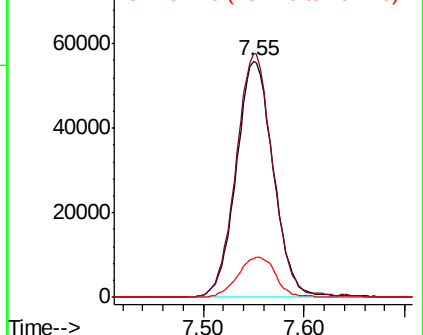
192 17.3 13.9 20.9



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: 4.834 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. -0.12 min

Lab File: VN063462.D

Acq: 18 Sep 2020 17:01

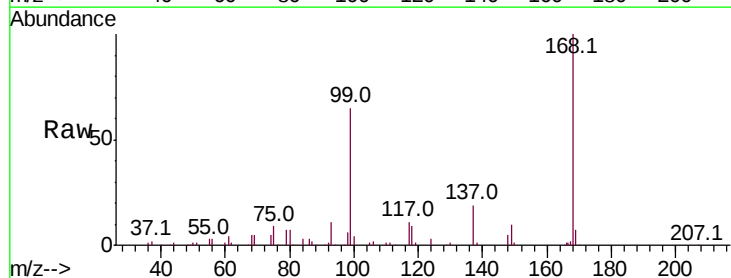
Tgt Ion: 75 Resp: 22924

Ion Ratio Lower Upper

75 100

110 4.8 16.5 49.5#

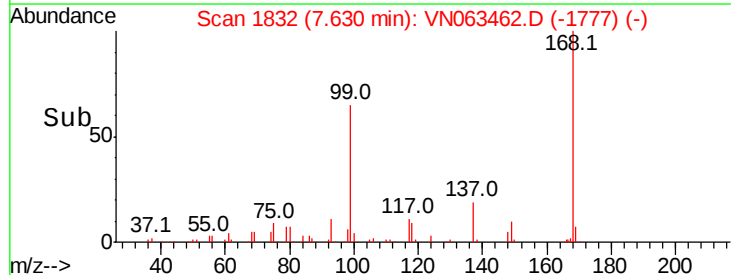
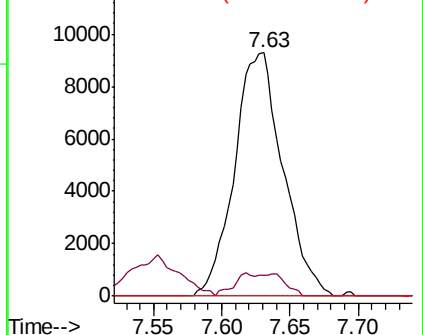
77 0.0 24.6 36.8#

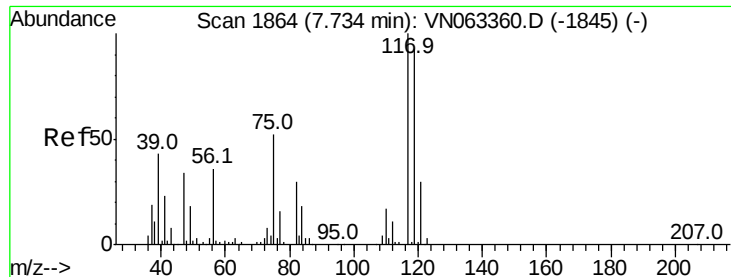


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VN0





#38

Carbon Tetrachloride

Concen: 5.555 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN063462.D

Acq: 18 Sep 2020 17:01

Instrument :

MSVOA\_N

ClientSampleId :

TR-05-091720

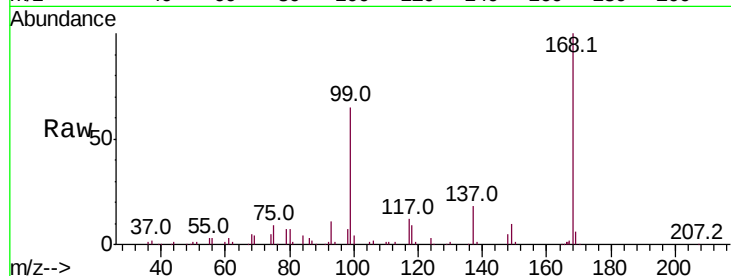
Tot Ion:117 Resp: 26891

Ion Ratio Lower Upper

117 100

119 5.8 74.5 111.7#

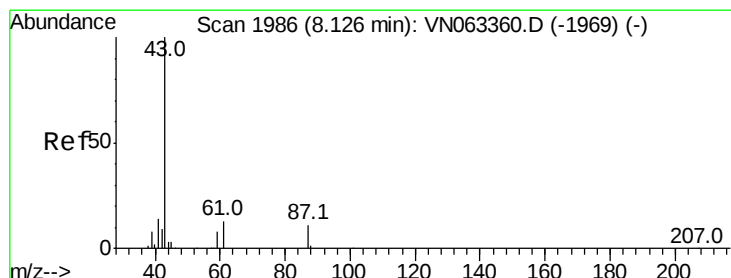
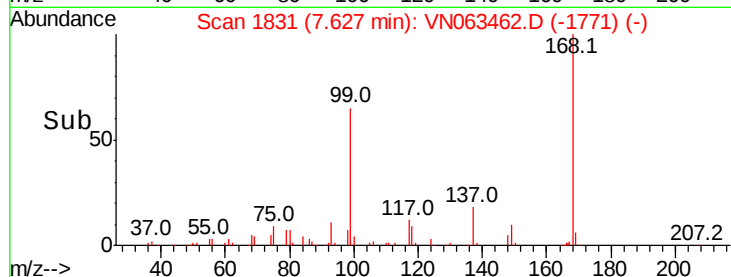
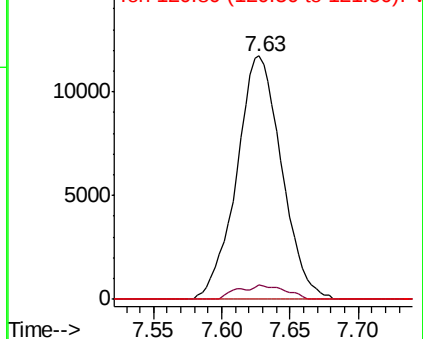
121 0.0 24.1 36.1#



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



#43

Isopropyl Acetate

Concen: 0.705 ug/l

RT: 8.24 min Scan# 2023

Delta R.T. 0.12 min

Lab File: VN063462.D

Acq: 18 Sep 2020 17:01

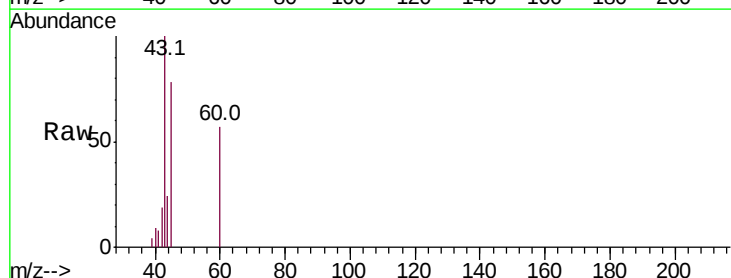
Tgt Ion: 43 Resp: 5863

Ion Ratio Lower Upper

43 100

61 0.0 14.2 21.2#

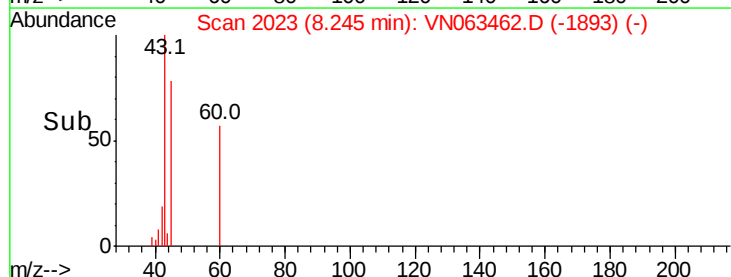
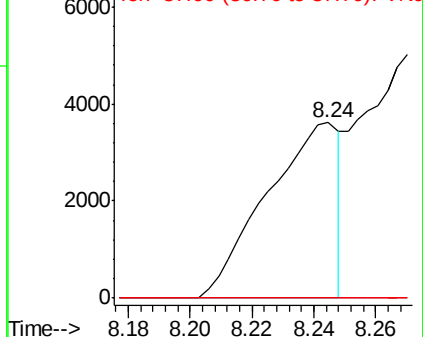
87 0.0 9.0 13.6#

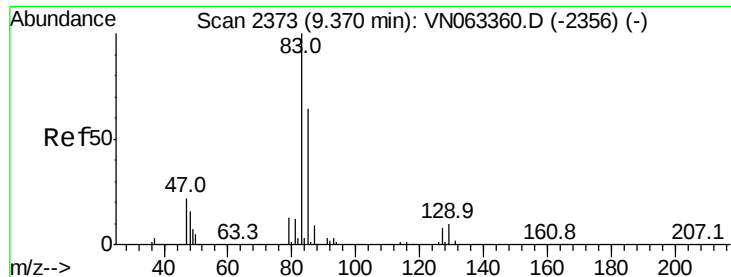


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO





#47

Bromodichloromethane

Concen: 0.301 ug/l

RT: 9.37 min Scan# 2374

Delta R.T. 0.00 min

Lab File: VN063462.D

Acq: 18 Sep 2020 17:01

Instrument :

MSVOA\_N

ClientSampleId :

TR-05-091720

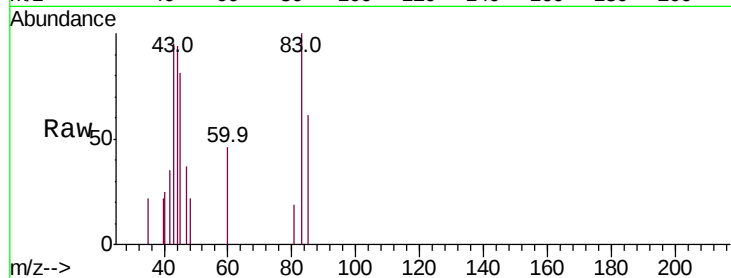
Tot Ion: 83 Resp: 1513

Ion Ratio Lower Upper

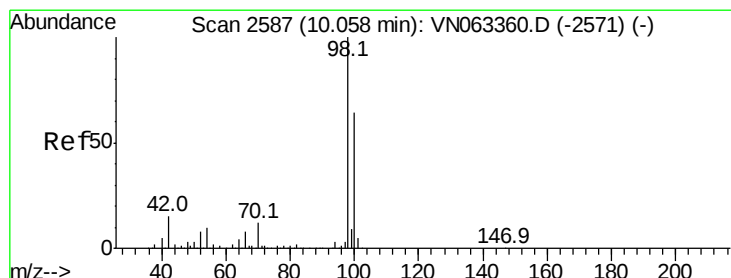
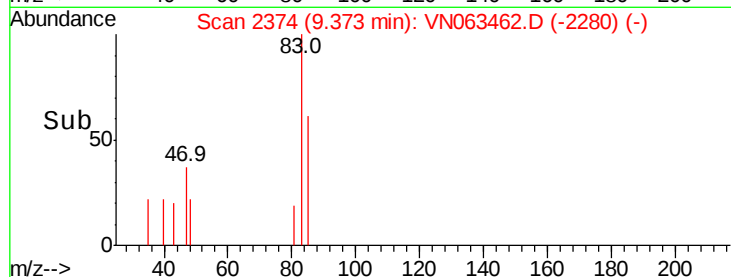
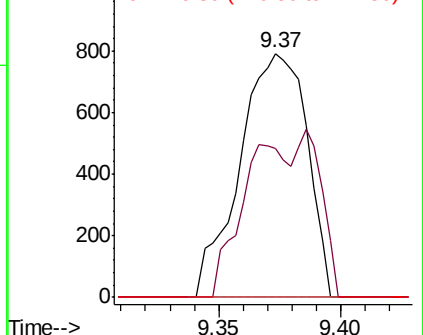
83 100

85 61.1 51.0 76.6

127 0.0 6.3 9.5#



Abundance Ion 82.90 (82.60 to 83.60): VNO  
Ion 84.90 (84.60 to 85.60): VNO  
Ion 126.80 (126.50 to 127.50): VNO



#50

Toluene-d8

Concen: 49.729 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063462.D

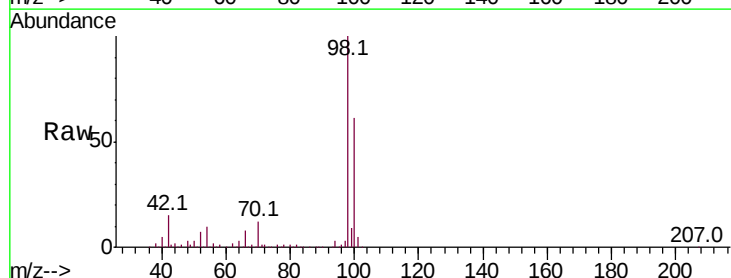
Acq: 18 Sep 2020 17:01

Tgt Ion: 98 Resp: 576172

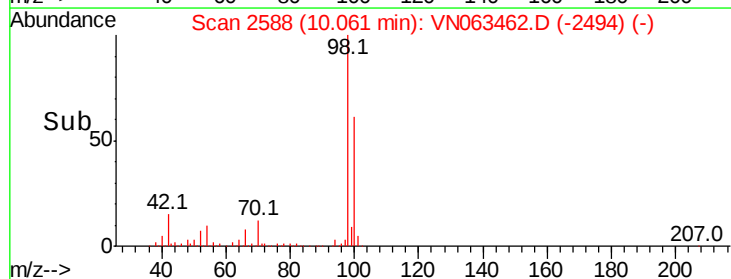
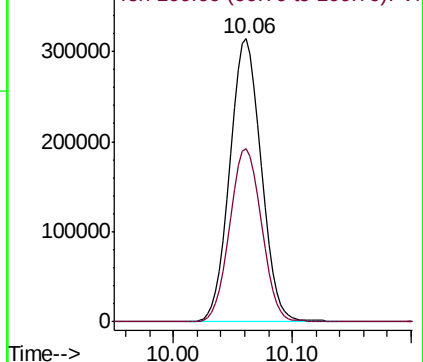
Ion Ratio Lower Upper

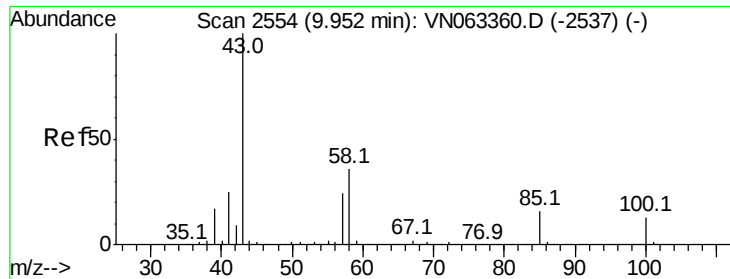
98 100

100 62.3 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VNO  
Ion 100.00 (99.70 to 100.70): VNO





#51

4-Methyl-2-Pentanone

Concen: 0.381 ug/l

RT: 9.96 min Scan# 2556

Delta R.T. 0.01 min

Lab File: VN063462.D

Acq: 18 Sep 2020 17:01

Instrument :

MSVOA\_N

ClientSampled :

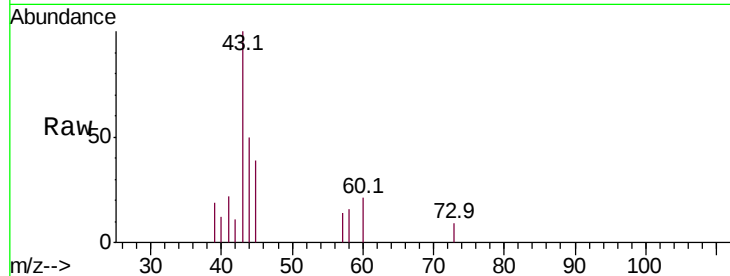
TR-05-091720

Tot Ion: 43 Resp: 1776

Ion Ratio Lower Upper

43 100

58 26.9 29.0 43.6#



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-2537) (-)

Ion 58.00 (57.70 to 58.70): VN063360.D (-2537) (-)

2000

1500

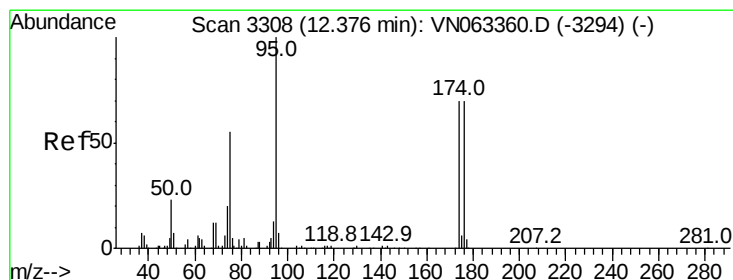
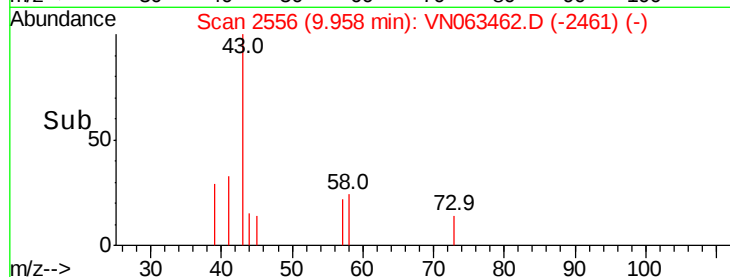
1000

500

0

9.90 9.95 10.00

Time-->



#62

4-Bromofluorobenzene

Concen: 54.631 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063462.D

Acq: 18 Sep 2020 17:01

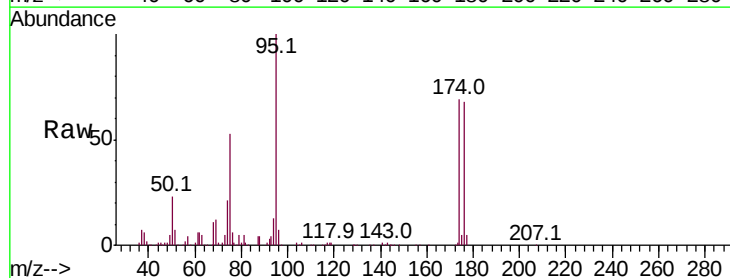
Tgt Ion: 95 Resp: 232035

Ion Ratio Lower Upper

95 100

174 69.3 0.0 140.8

176 66.6 0.0 137.6



Abundance Ion 94.90 (94.60 to 95.60): VN063360.D (-3294) (-)

Ion 173.80 (173.50 to 174.50): VN063360.D (-3294) (-)

Ion 175.80 (175.50 to 176.50): VN063360.D (-3294) (-)

150000

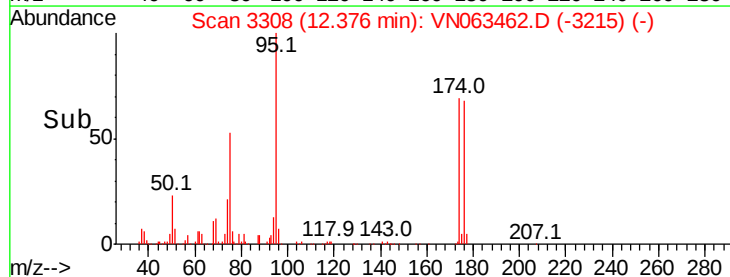
100000

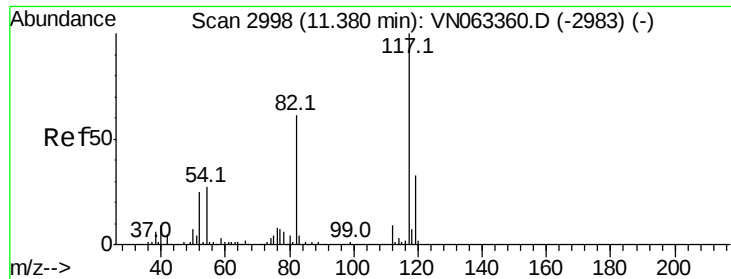
50000

0

12.30 12.40 12.50

Time-->

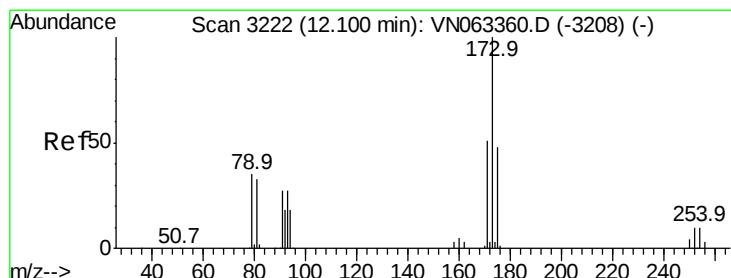
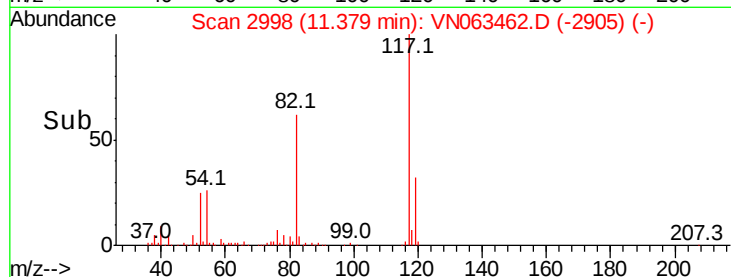
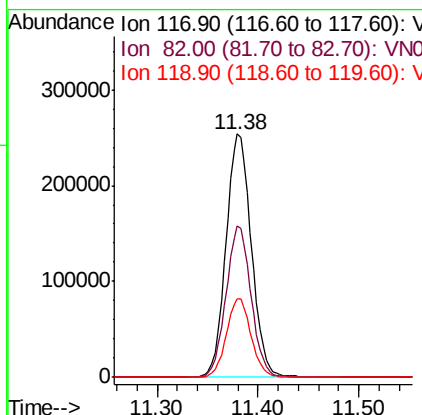
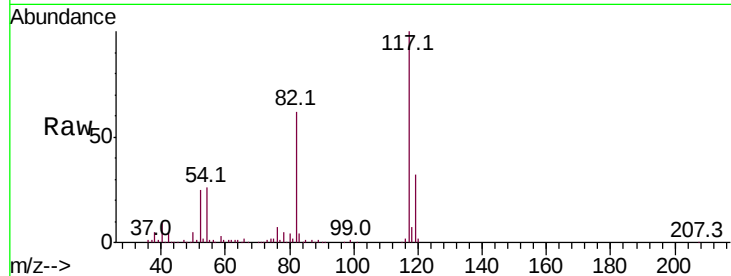




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.38 min Scan# 2998  
Delta R.T. -0.00 min  
Lab File: VN063462.D  
Acq: 18 Sep 2020 17:01

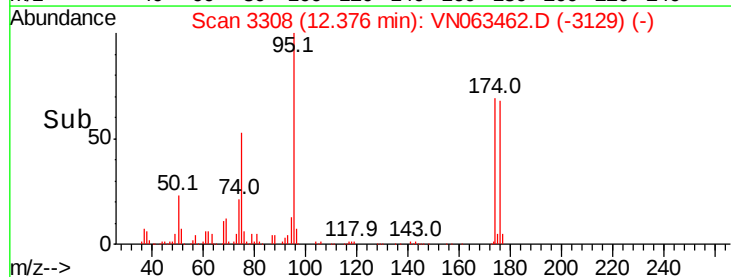
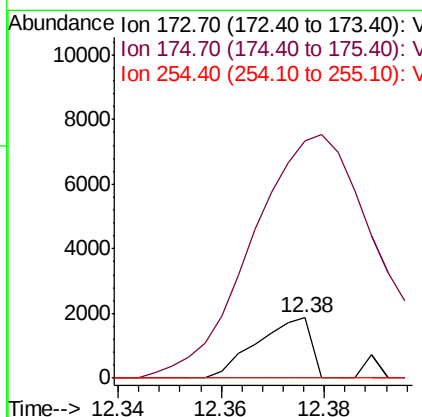
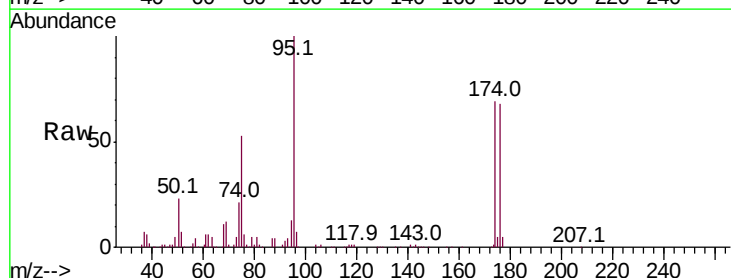
Instrument :  
MSVOA\_N  
ClientSampleId :  
TR-05-091720

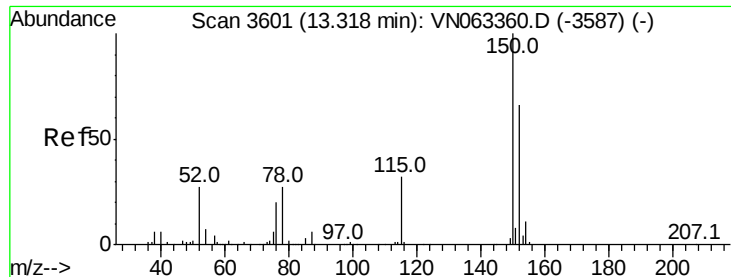
Tot Ion:117 Resp: 445646  
Ion Ratio Lower Upper  
117 100  
82 62.2 49.2 73.8  
119 32.4 26.2 39.4



#71  
Bromoform  
Concen: 0.522 ug/l  
RT: 12.38 min Scan# 3308  
Delta R.T. 0.28 min  
Lab File: VN063462.D  
Acq: 18 Sep 2020 17:01

Tgt Ion:173 Resp: 1349  
Ion Ratio Lower Upper  
173 100  
175 744.2 24.0 72.0#  
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VN063462.D

Acq: 18 Sep 2020 17:01

Instrument :

MSVOA\_N

ClientSampleId :

TR-05-091720

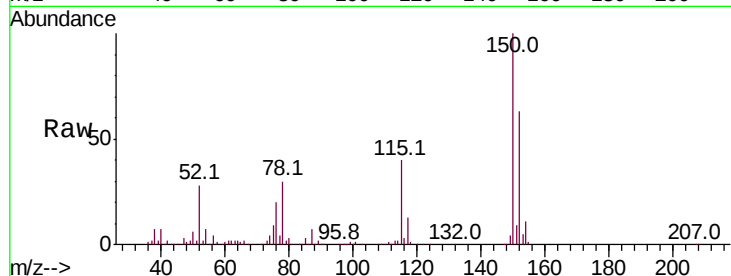
Tot Ion:152 Resp: 191112

Ion Ratio Lower Upper

152 100

115 63.6 32.2 96.6

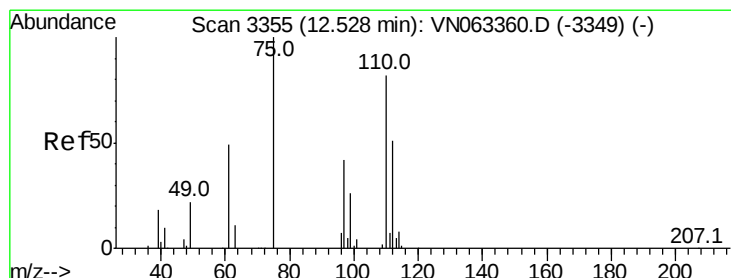
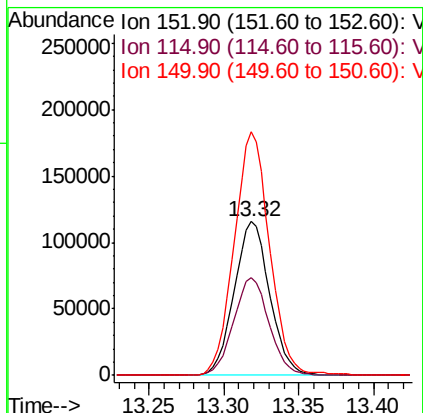
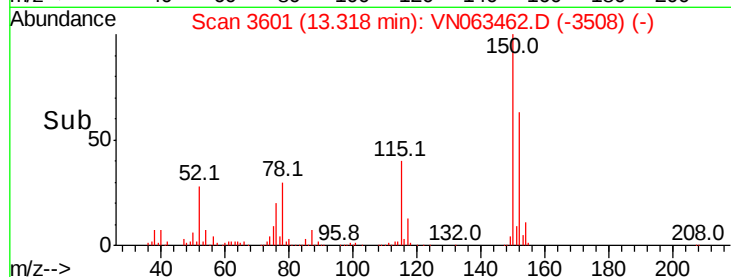
150 157.8 0.0 343.4



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: 26.530 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063462.D

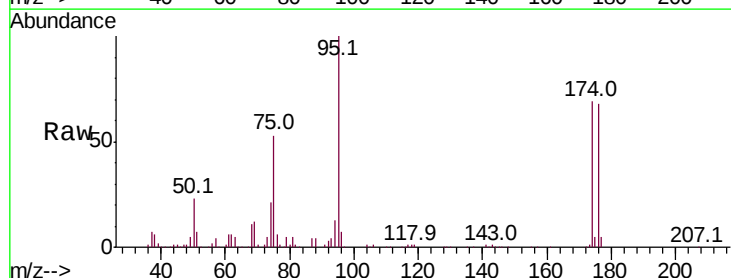
Acq: 18 Sep 2020 17:01

Tgt Ion: 75 Resp: 125495

Ion Ratio Lower Upper

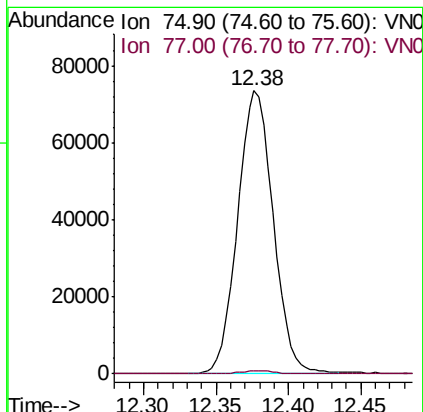
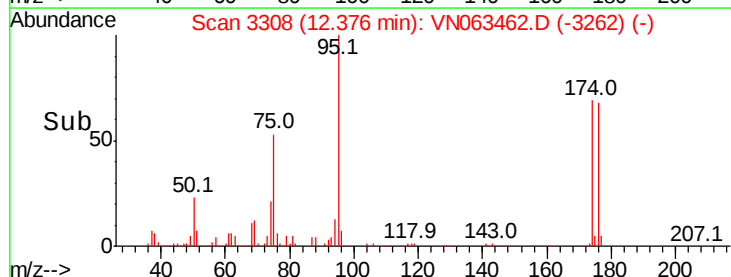
75 100

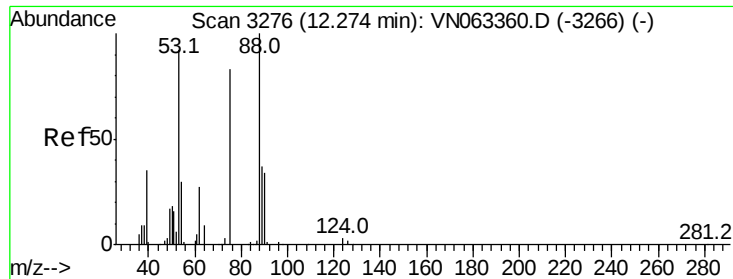
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 72.735 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063462.D

Acq: 18 Sep 2020 17:01

Instrument :

MSVOA\_N

ClientSampleId :

TR-05-091720

Tot Ion: 75 Resp: 125495

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#

