

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111618\  
 Data File : VN052363.D  
 Acq On : 16 Nov 2018 14:34  
 Operator : MD\SY  
 Sample : J5977-07  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 14 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TRIP-BLANK

Quant Time: Nov 16 22:40:04 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N111418W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 15 03:02:37 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 304440   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 509159   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 431904   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 149432   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.03  | 65   | 216831   | 50.43 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.86% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 165737   | 50.47 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.94% |          |
| 50) Toluene-d8              | 10.09 | 98   | 633856   | 49.06 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.12%  |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 188007   | 44.24 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 88.48%  |          |

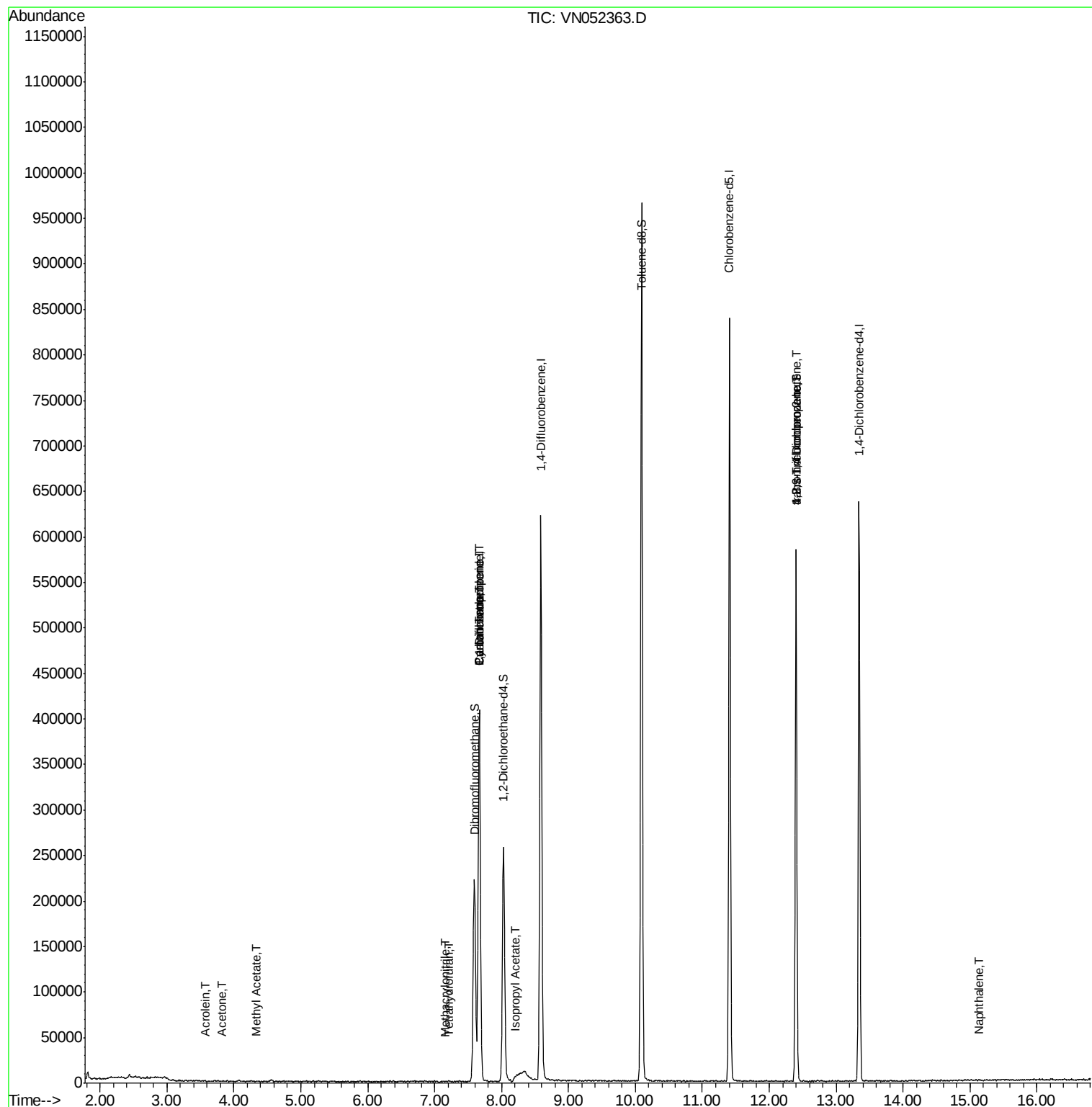
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 13) Acrolein                   | 3.57  | 56   | 30       | 21.850    | ug/l # | 14     |
| 16) Acetone                    | 3.82  | 43   | 793      | 0.670     | ug/l # | 77     |
| 18) Methyl Acetate             | 4.34  | 43   | 497      | 0.580     | ug/l # | 57     |
| 20) Methylene Chloride         | 4.55  | 84   | 636      | Below Cal | #      | 88     |
| 29) Tetrahydrofuran            | 7.20  | 42   | 346      | 0.316     | ug/l # | 40     |
| 31) Cyclohexane                | 7.66  | 56   | 9145     | 0.346     | ug/l # | 48     |
| 36) 1,1-Dichloropropene        | 7.66  | 75   | 27866    | 5.460     | ug/l # | 47     |
| 38) Carbon Tetrachloride       | 7.66  | 117  | 32816    | 6.999     | ug/l # | 16     |
| 41) Methacrylonitrile          | 7.16  | 41   | 233      | 3.800     | ug/l # | 100    |
| 43) Isopropyl Acetate          | 8.20  | 43   | 3771     | 0.528     | ug/l # | 67     |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 106375   | 41.953    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 106375   | 136.070   | ug/l # | 5      |
| 95) Naphthalene                | 15.13 | 128  | 222      | 2.644     | ug/l # | 69     |

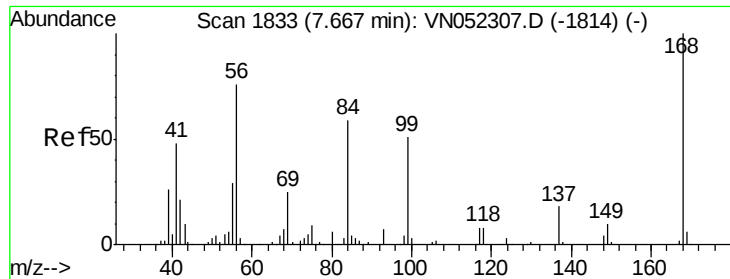
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Nov 16 22:40:04 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N111418W.M  
Quant Title : SW846 8260  
QLast Update : Thu Nov 15 03:02:37 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN052363.D

Acq: 16 Nov 2018 14:34

Instrument :

MSVOA\_N

ClientSampleId :

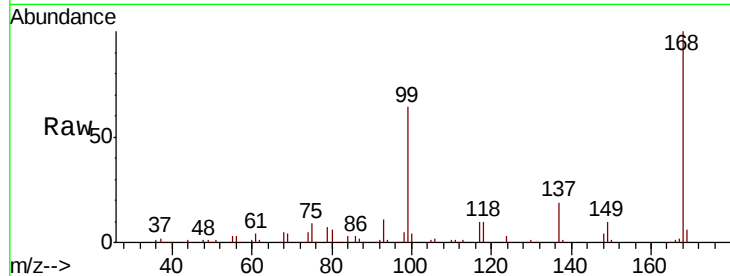
TRIP-BLANK

Tot Ion:168 Resp: 304440

Ion Ratio Lower Upper

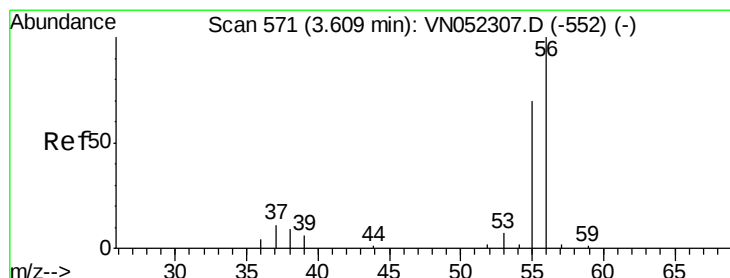
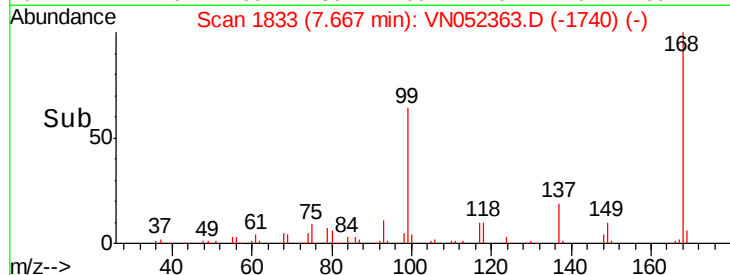
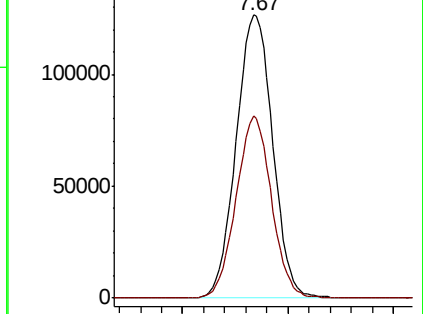
168 100

99 64.3 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#13

Acrolein

Concen: 21.850 ug/l

RT: 3.57 min Scan# 559

Delta R.T. -0.04 min

Lab File: VN052363.D

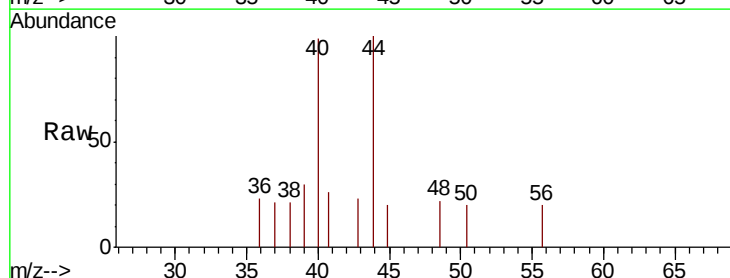
Acq: 16 Nov 2018 14:34

Tgt Ion: 56 Resp: 30

Ion Ratio Lower Upper

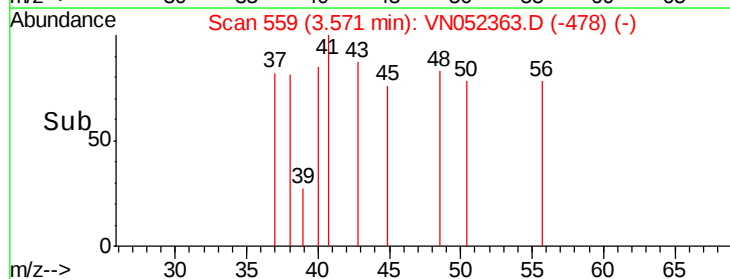
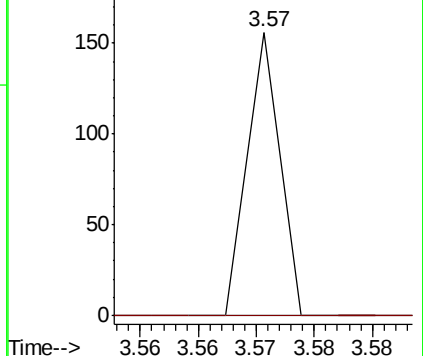
56 100

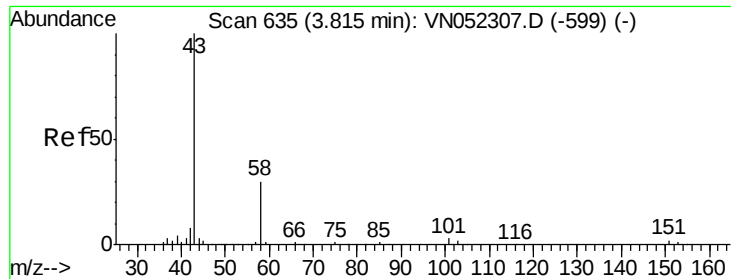
55 0.0 57.6 86.4#



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO





#16

Acetone

Concen: 0.670 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN052363.D

Acq: 16 Nov 2018 14:34

Instrument :

MSVOA\_N

ClientSampled :

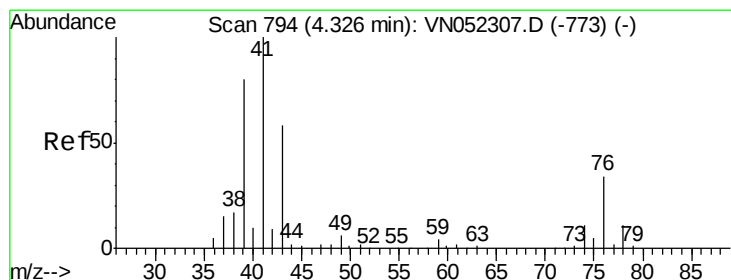
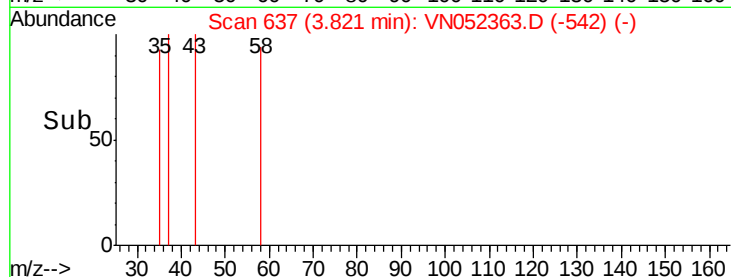
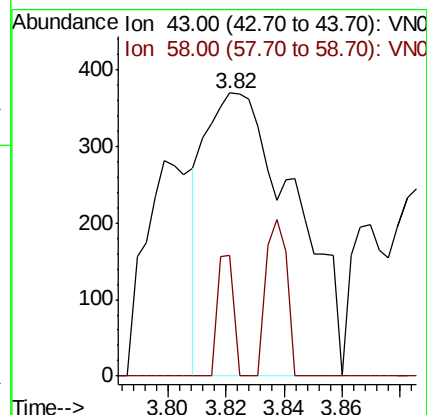
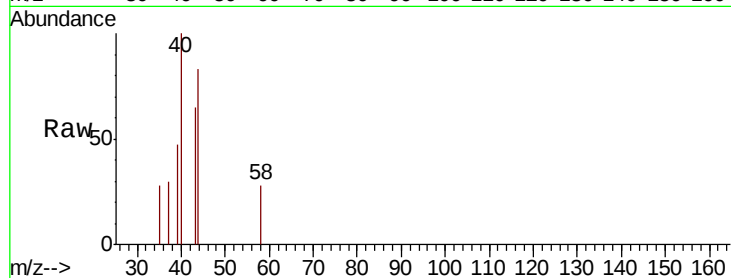
TRIP-BLANK

Tot Ion: 43 Resp: 793

Ion Ratio Lower Upper

43 100

58 42.8 24.2 36.4#



#18

Methyl Acetate

Concen: 0.580 ug/l

RT: 4.34 min Scan# 799

Delta R.T. 0.02 min

Lab File: VN052363.D

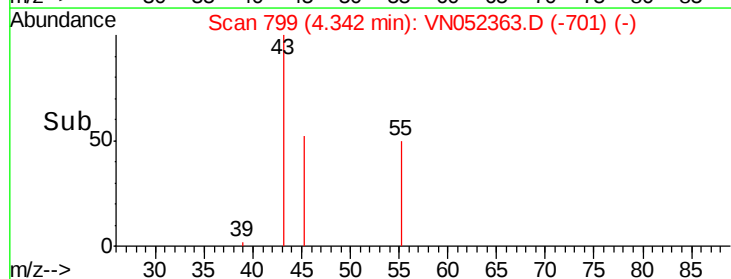
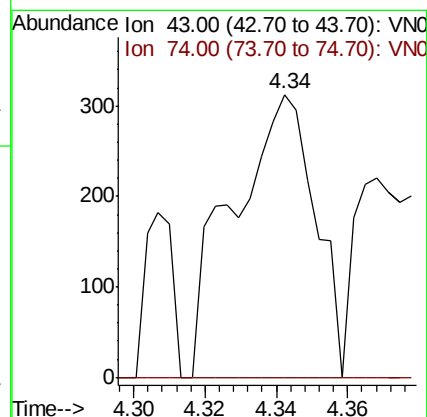
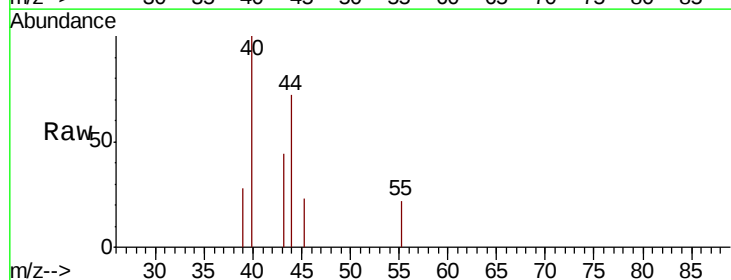
Acq: 16 Nov 2018 14:34

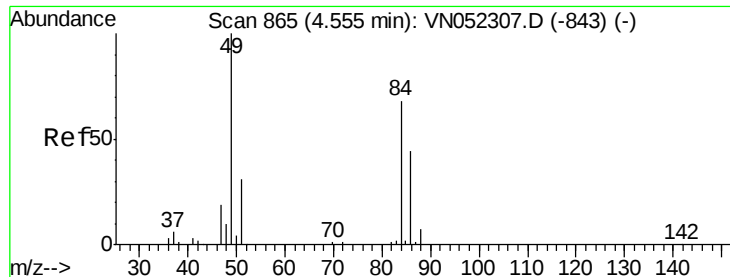
Tgt Ion: 43 Resp: 497

Ion Ratio Lower Upper

43 100

74 0.0 15.9 23.9#

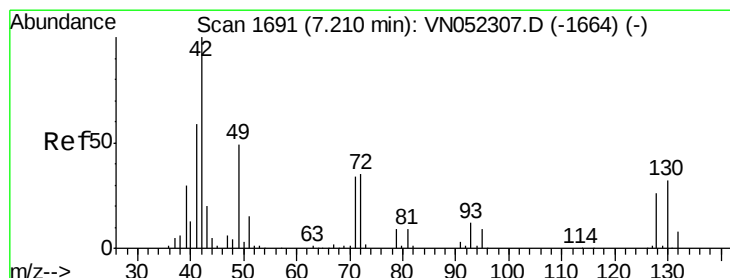
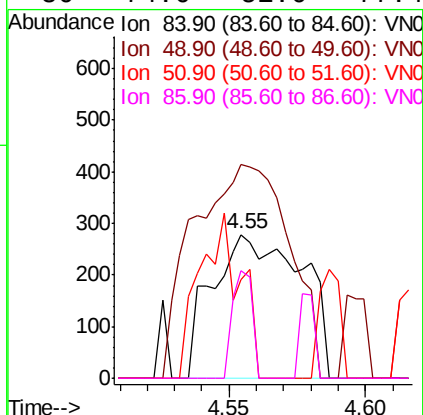
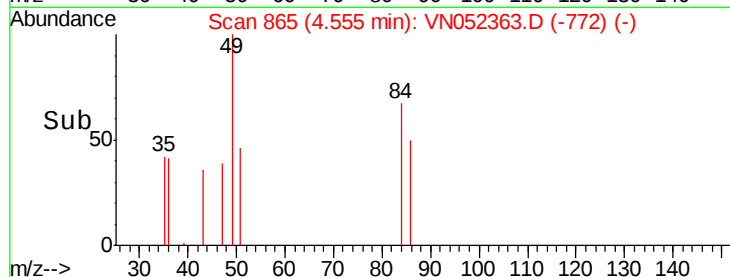
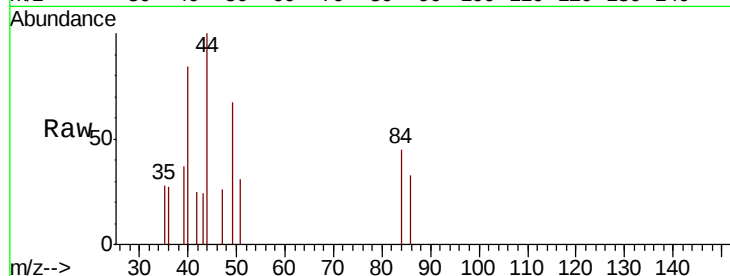




#20  
Methvlene Chloride  
Concen: Below Cal  
RT: 4.55 min Scan# 865  
Delta R.T. 0.00 min  
Lab File: VN052363.D  
Acq: 16 Nov 2018 14:34

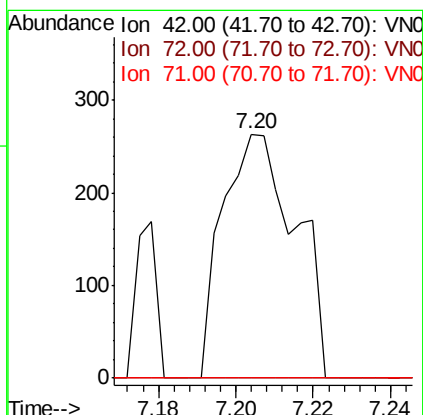
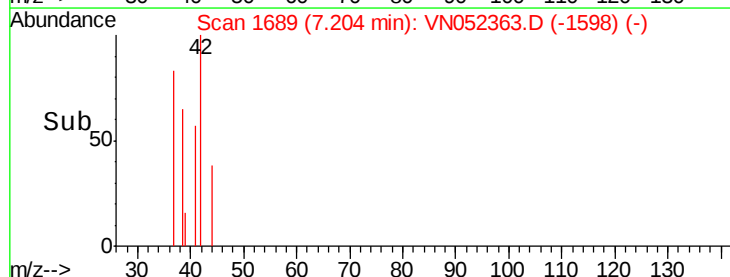
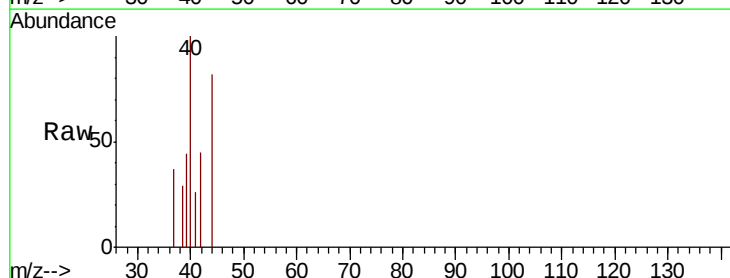
Instrument :  
MSVOA\_N  
ClientSampleId :  
TRIP-BLANK

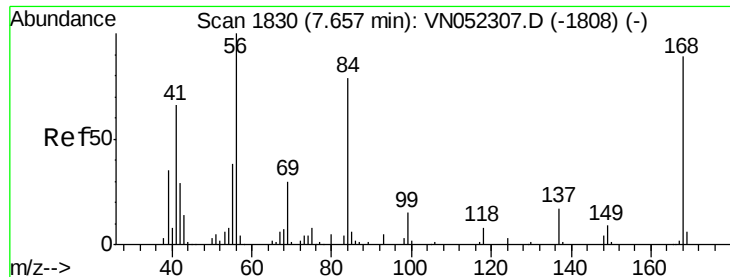
Tot Ion: 84 Resp: 636  
Ion Ratio Lower Upper  
84 100  
49 148.4 118.2 177.2  
51 12.2 36.1 54.1#  
86 74.6 51.6 77.4



#29  
Tetrahydrofuran  
Concen: 0.316 ug/l  
RT: 7.20 min Scan# 1689  
Delta R.T. -0.01 min  
Lab File: VN052363.D  
Acq: 16 Nov 2018 14:34

Tgt Ion: 42 Resp: 346  
Ion Ratio Lower Upper  
42 100  
72 0.0 28.6 42.8#  
71 0.0 26.7 40.1#

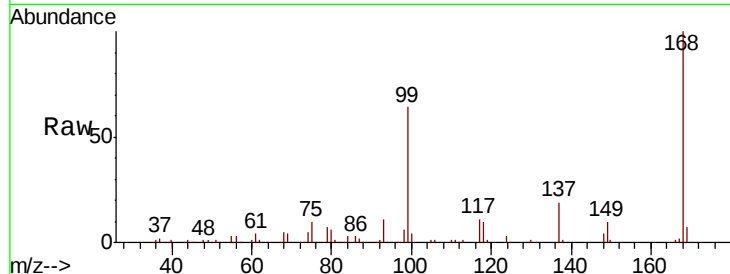




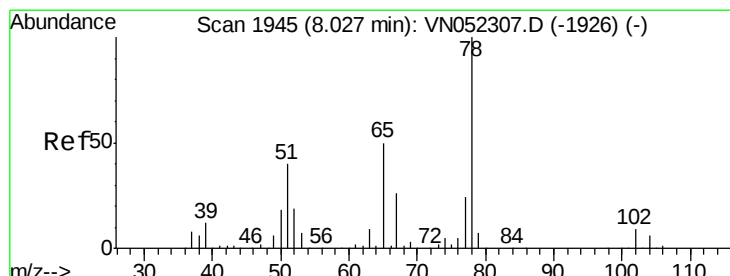
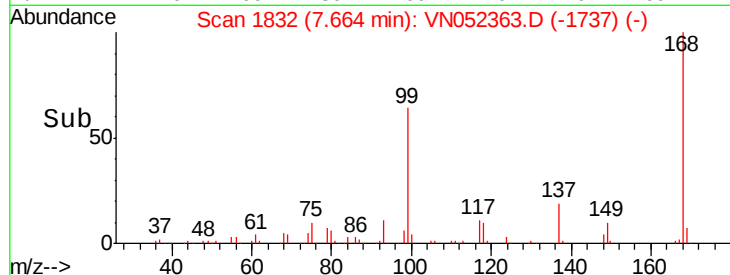
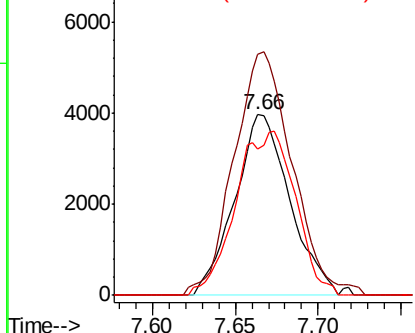
#31  
Cyclohexane  
Concen: 0.346 ug/l  
RT: 7.66 min Scan# 1832  
Delta R.T. 0.01 min  
Lab File: VN052363.D  
Acq: 16 Nov 2018 14:34

Instrument :  
MSVOA\_N  
ClientSampleId :  
TRIP-BLANK

Tot Ion: 56 Resp: 9145  
Ion Ratio Lower Upper  
56 100  
69 128.8 23.8 35.8#  
84 81.1 63.0 94.6

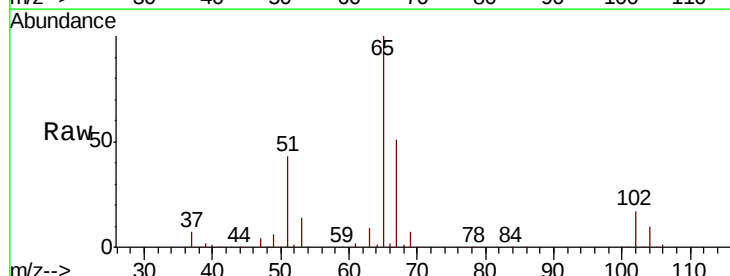


Abundance Ion 56.00 (55.70 to 56.70): VN0  
Ion 69.00 (68.70 to 69.70): VN0  
Ion 84.00 (83.70 to 84.70): VN0

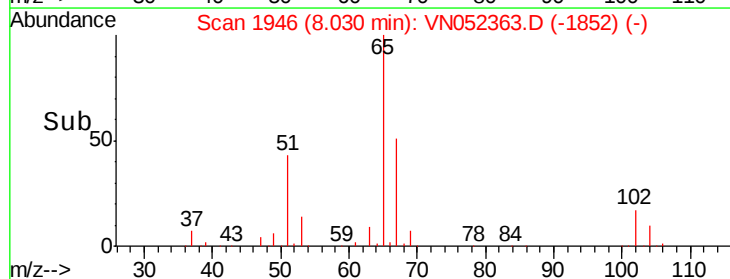
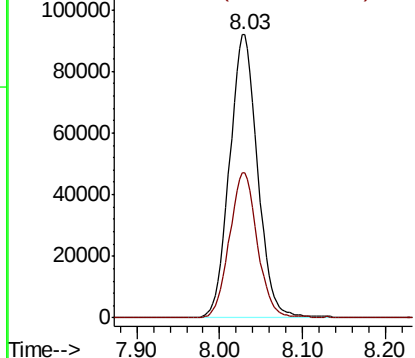


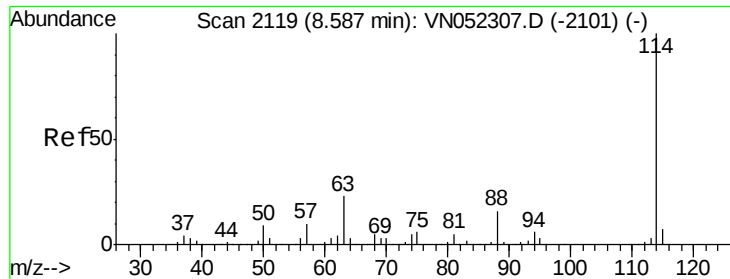
#33  
1,2-Dichloroethane-d4  
Concen: Below ug/l  
RT: 8.03 min Scan# 1946  
Delta R.T. 0.00 min  
Lab File: VN052363.D  
Acq: 16 Nov 2018 14:34

Tgt Ion: 65 Resp: 216831  
Ion Ratio Lower Upper  
65 100  
67 51.1 0.0 105.2



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

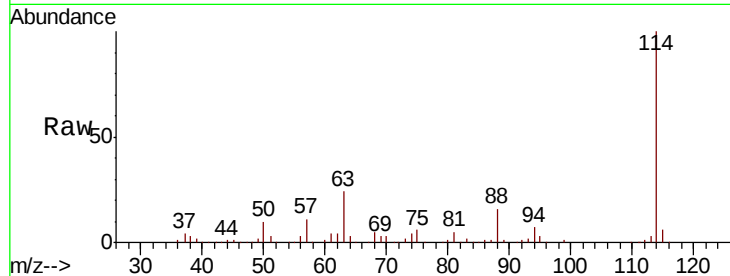




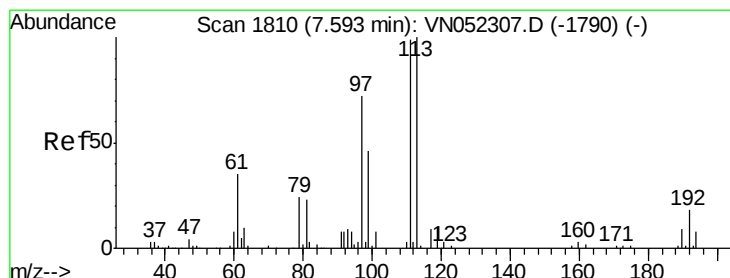
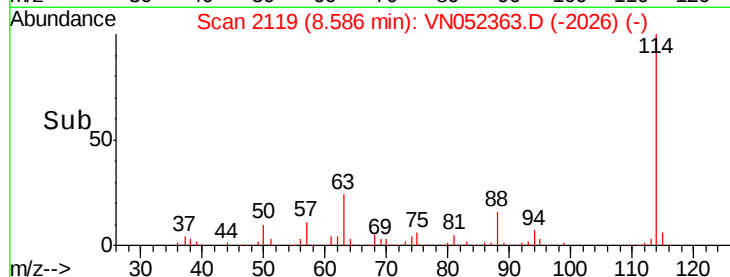
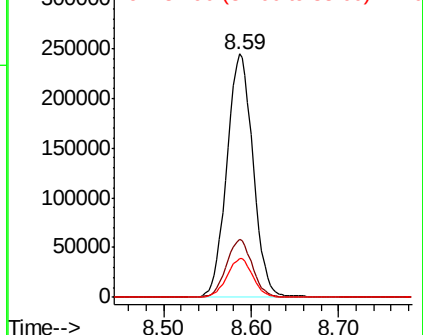
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. -0.00 min  
 Lab File: VN052363.D  
 Acq: 16 Nov 2018 14:34

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TRIP-BLANK

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 23.7  | 0.0   | 45.4  |
| 88      | 15.9  | 0.0   | 31.2  |

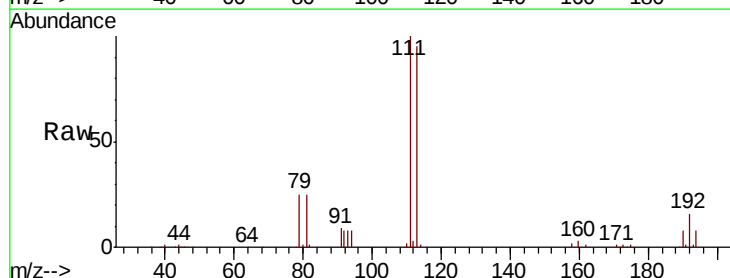


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VNO  
 Ion 87.90 (87.60 to 88.60): VNO

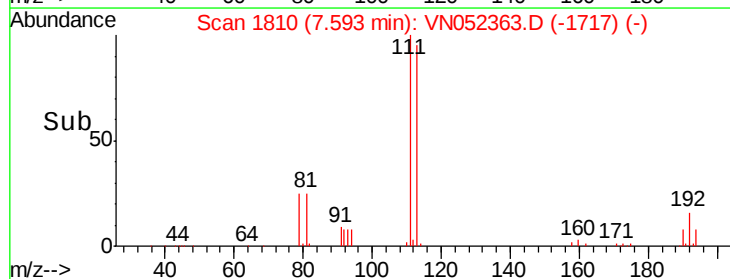
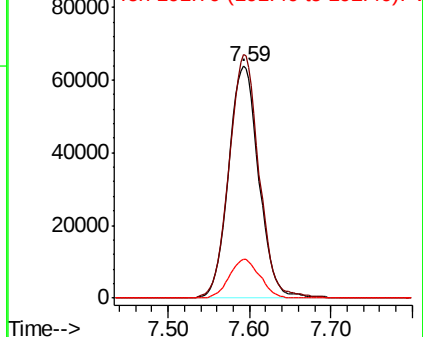


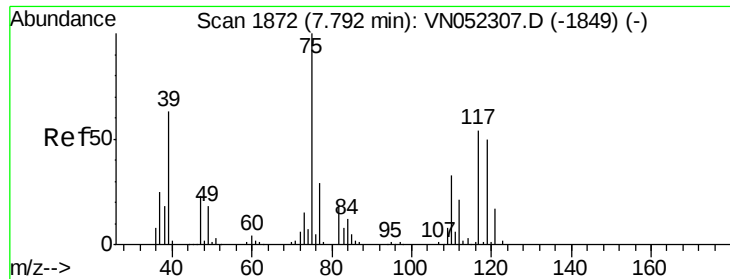
#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 7.59 min Scan# 1810  
 Delta R.T. -0.00 min  
 Lab File: VN052363.D  
 Acq: 16 Nov 2018 14:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.6 | 81.0  | 121.6 |
| 192     | 16.8  | 13.8  | 20.6  |



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: 5.460 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN052363.D

Acq: 16 Nov 2018 14:34

Instrument :

MSVOA\_N

ClientSampleId :

TRIP-BLANK

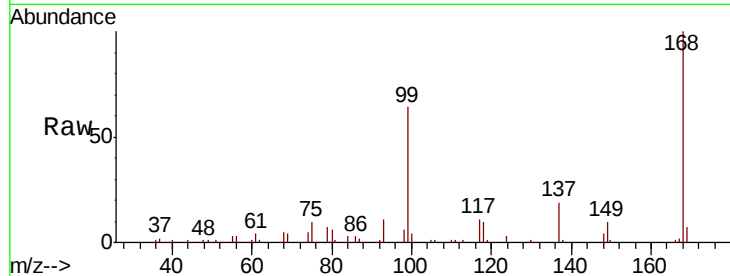
Tot Ion: 75 Resp: 27866

Ion Ratio Lower Upper

75 100

110 4.6 16.5 49.5#

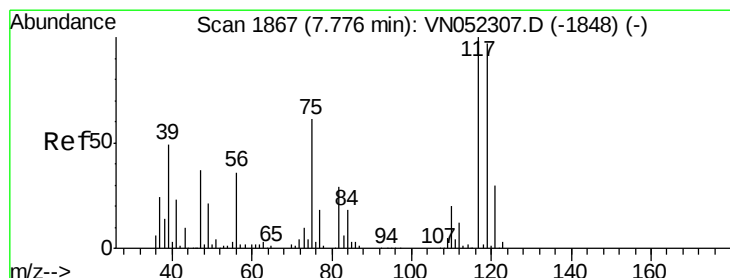
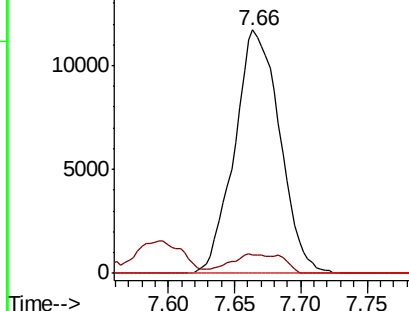
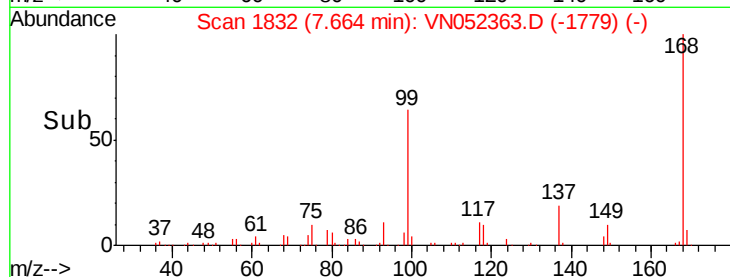
77 0.0 24.2 36.2#



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: 6.999 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN052363.D

Acq: 16 Nov 2018 14:34

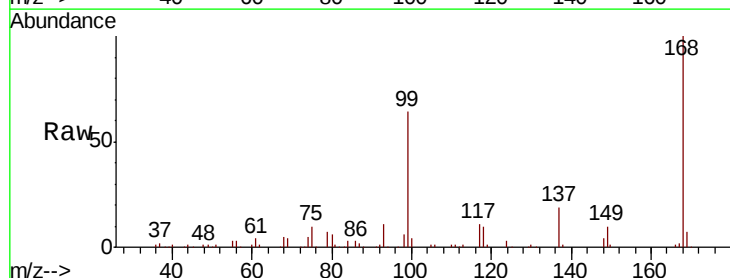
Tgt Ion: 117 Resp: 32816

Ion Ratio Lower Upper

117 100

119 5.4 77.4 116.0#

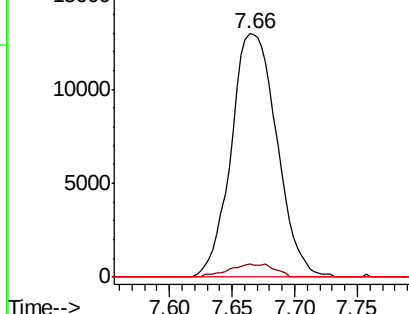
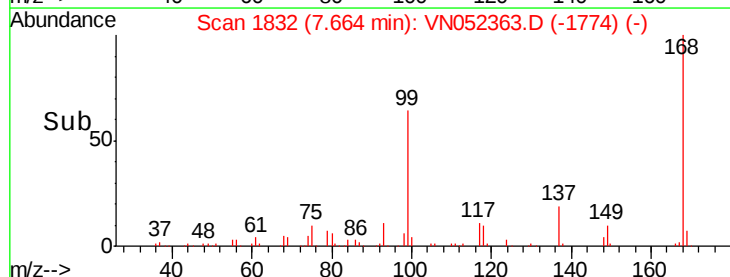
121 0.0 24.0 36.0#

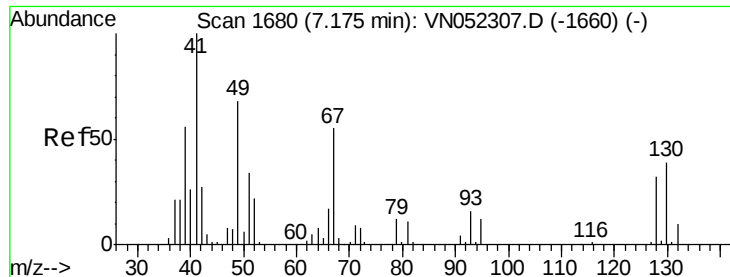


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

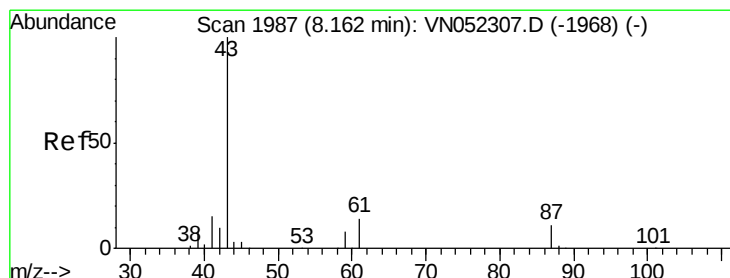
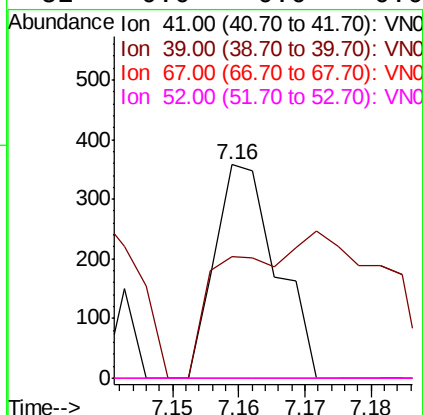
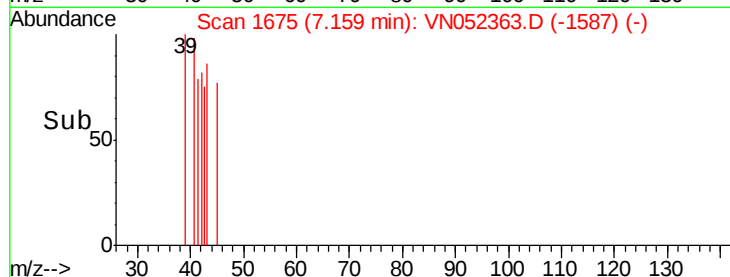
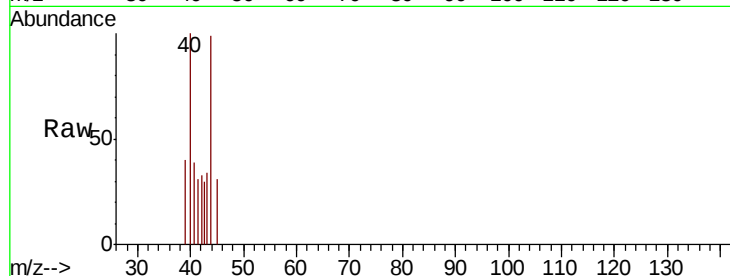




#41  
Methacrylonitrile  
Concen: 3.800 ug/l  
RT: 7.16 min Scan# 1675  
Delta R.T. -0.02 min  
Lab File: VN052363.D  
Acq: 16 Nov 2018 14:34

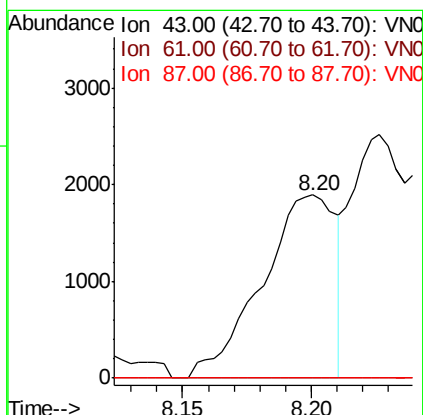
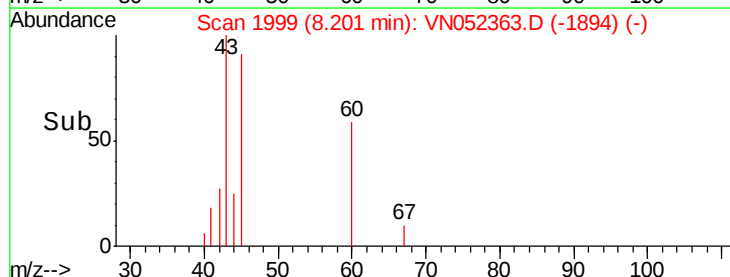
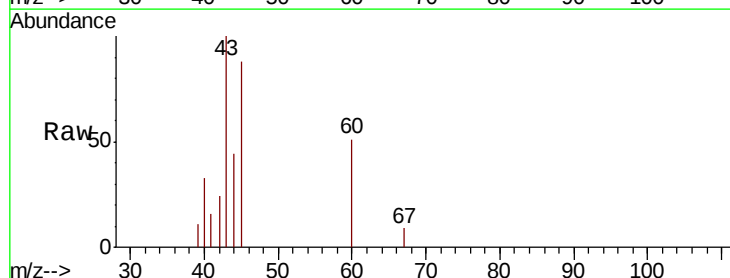
Instrument :  
MSVOA\_N  
ClientSampled :  
TRIP-BLANK

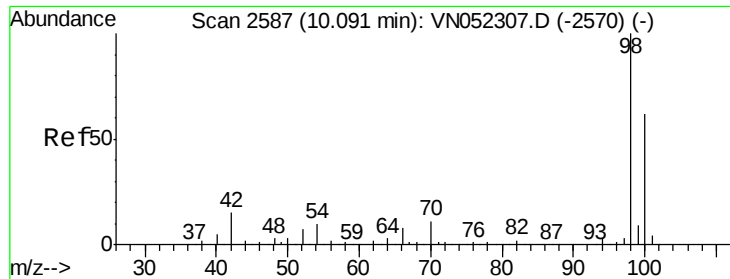
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 233   |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 166.5 | 0.0   | 0.0#  |
| 67       | 0.0   | 0.0   | 0.0   |
| 52       | 0.0   | 0.0   | 0.0   |



#43  
Isopropyl Acetate  
Concen: 0.528 ug/l  
RT: 8.20 min Scan# 1999  
Delta R.T. 0.04 min  
Lab File: VN052363.D  
Acq: 16 Nov 2018 14:34

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 3771  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 0.0   | 12.0  | 18.0# |
| 87       | 0.0   | 8.3   | 12.5# |





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052363.D

Acq: 16 Nov 2018 14:34

Instrument :

MSVOA\_N

ClientSampleId :

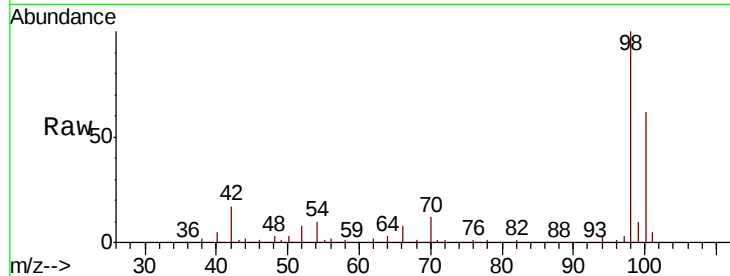
TRIP-BLANK

Tot Ion: 98 Resp: 633856

Ion Ratio Lower Upper

98 100

100 62.5 49.5 74.3



Abundance Ion 98.00 (97.70 to 98.70): VN052307.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN052307.D (-2570) (-)

10.09

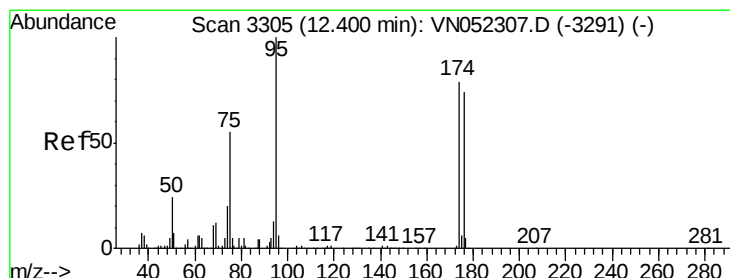
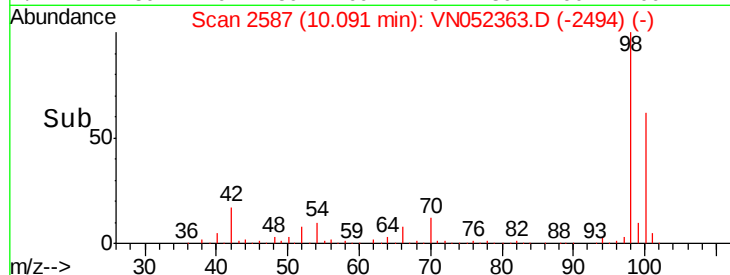
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN052363.D

Acq: 16 Nov 2018 14:34

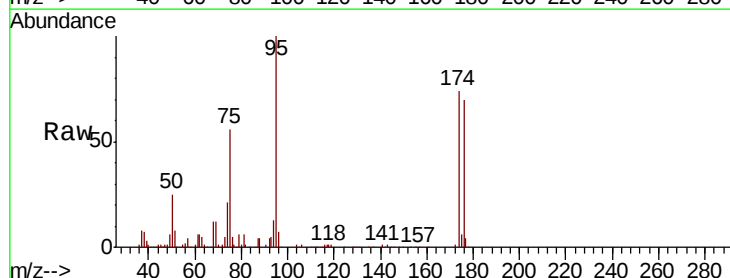
Tgt Ion: 95 Resp: 188007

Ion Ratio Lower Upper

95 100

174 75.7 0.0 156.0

176 71.3 0.0 148.4



Abundance Ion 94.90 (94.60 to 95.60): VN052307.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN052307.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN052307.D (-3291) (-)

12.40

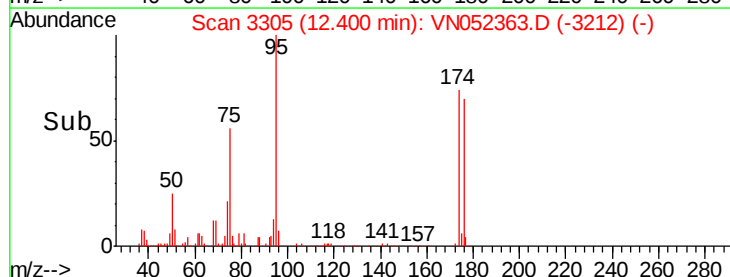
150000

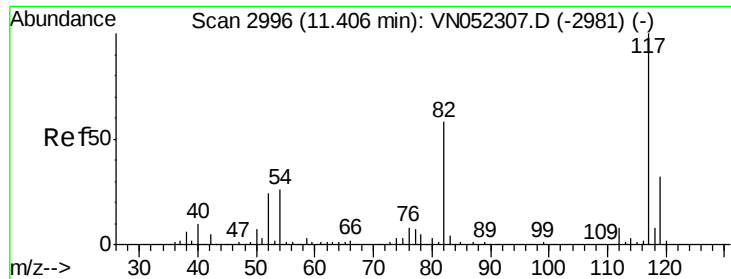
100000

50000

0

Time-->

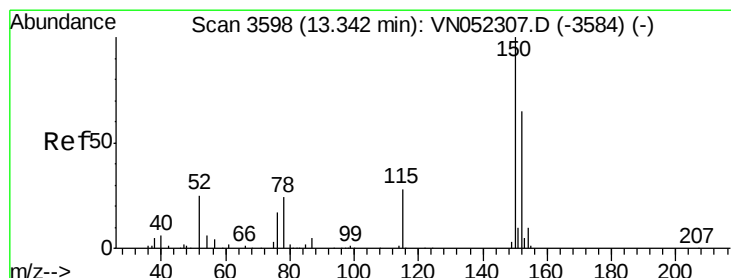
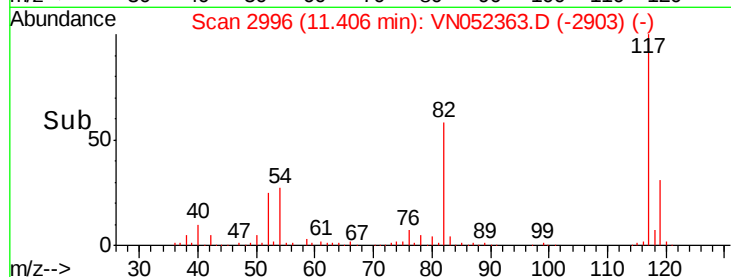
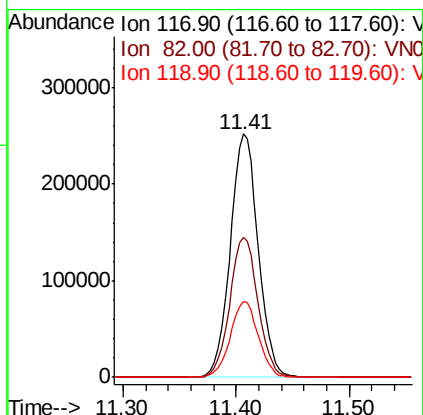
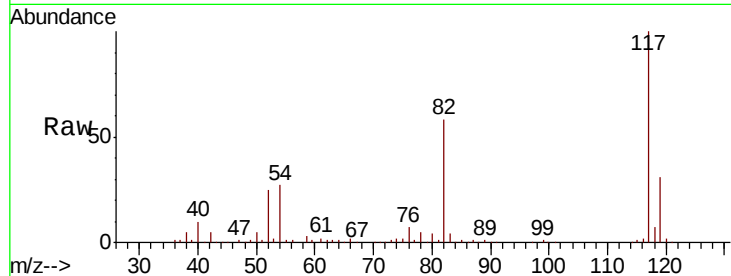




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. -0.00 min  
Lab File: VN052363.D  
Acq: 16 Nov 2018 14:34

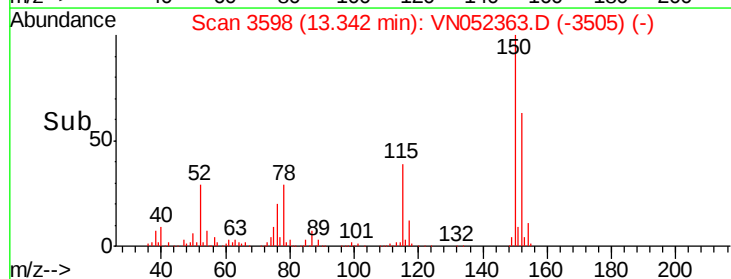
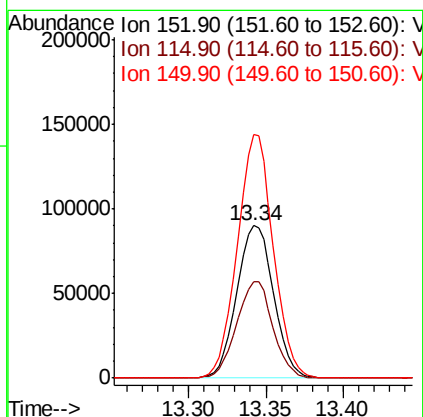
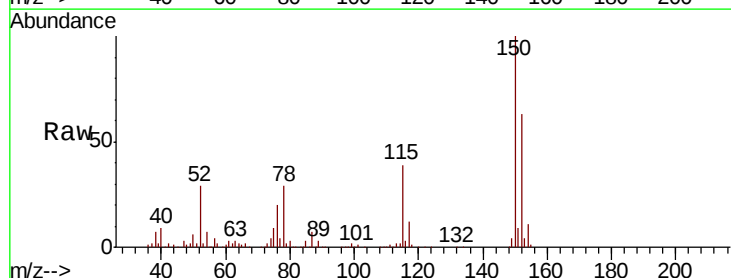
Instrument :  
MSVOA\_N  
ClientSampleId :  
TRIP-BLANK

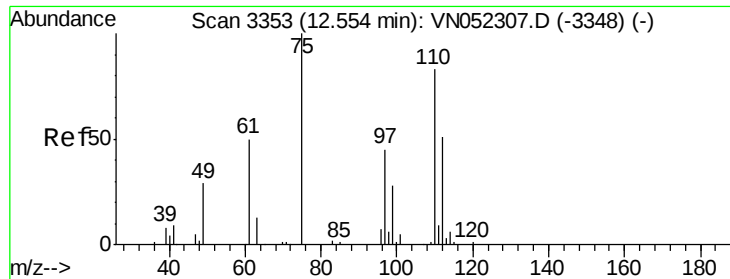
Tot Ion:117 Resp: 431904  
Ion Ratio Lower Upper  
117 100  
82 57.7 46.5 69.7  
119 31.1 25.7 38.5



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.34 min Scan# 3598  
Delta R.T. -0.00 min  
Lab File: VN052363.D  
Acq: 16 Nov 2018 14:34

Tgt Ion:152 Resp: 149432  
Ion Ratio Lower Upper  
152 100  
115 62.1 30.3 91.0  
150 155.2 0.0 348.2





#76

1,2,3-Trichloropropane

Concen: 41.953 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052363.D

Acq: 16 Nov 2018 14:34

Instrument :

MSVOA\_N

ClientSampled :

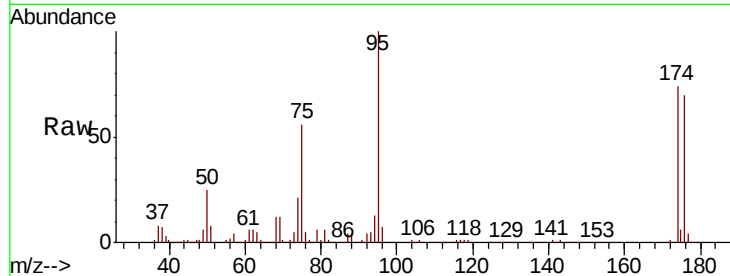
TRIP-BLANK

Tot Ion: 75 Resp: 106375

Ion Ratio Lower Upper

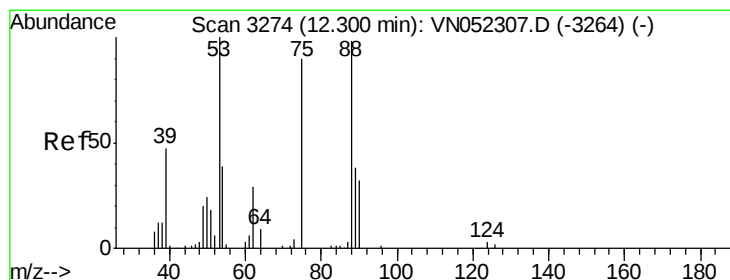
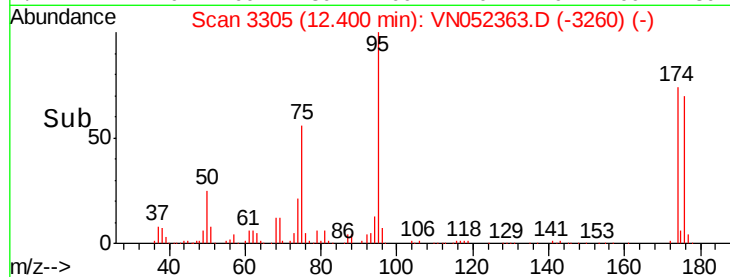
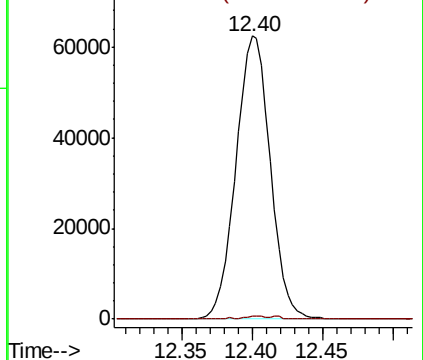
75 100

77 0.7 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 136.070 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052363.D

Acq: 16 Nov 2018 14:34

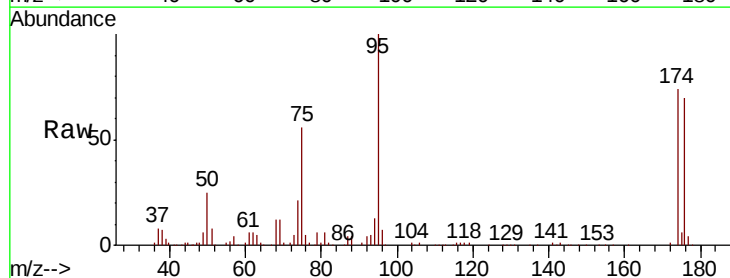
Tgt Ion: 75 Resp: 106375

Ion Ratio Lower Upper

75 100

53 0.1 90.2 135.2#

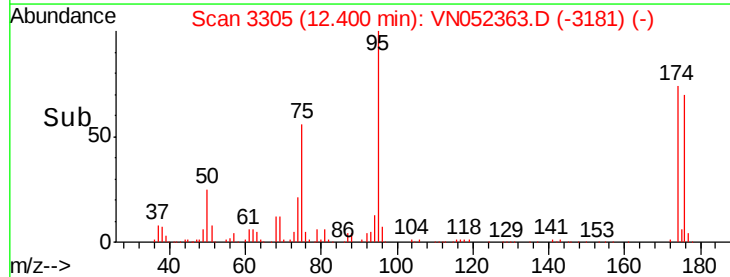
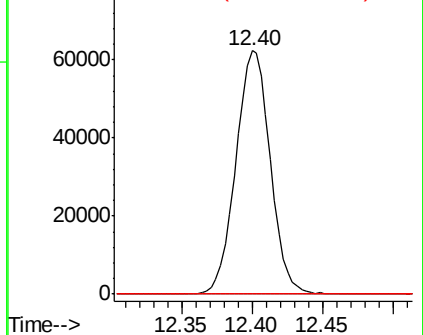
89 0.0 35.4 53.0#

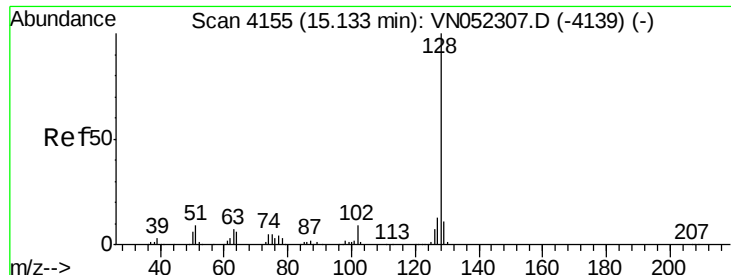


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#95

Naphthalene

Concen: 2.644 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN052363.D

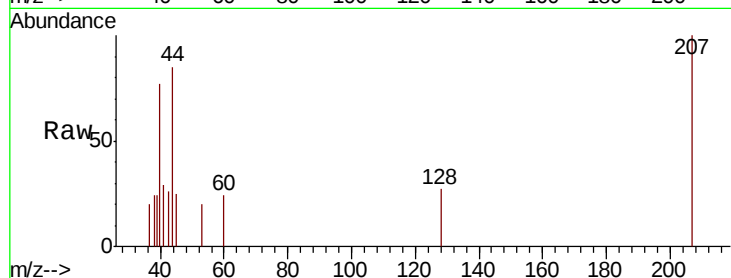
Acq: 16 Nov 2018 14:34

Instrument :

MSVOA\_N

ClientSampleId :

TRIP-BLANK



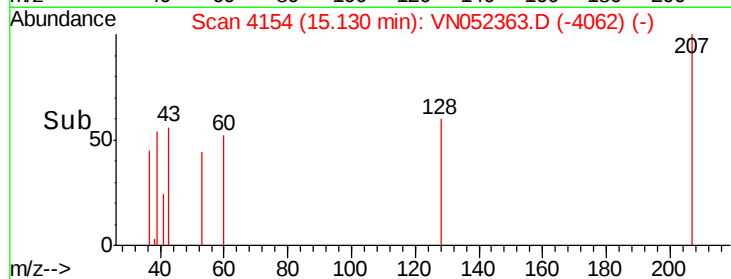
Tot Ion:128 Resp: 222

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.6 13.0#



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

