

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111618\  
 Data File : VN052364.D  
 Acq On : 16 Nov 2018 15:00  
 Operator : MD\SY  
 Sample : J5968-04  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 15 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TB-111418

Quant Time: Nov 16 22:40:16 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  | 308703   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 511603   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 420818   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 140297   | 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   | 215878   | 49.51 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.02%  |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 168015   | 50.92 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.84% |          |
| 50) Toluene-d8              | 10.09 | 98   | 635581   | 48.96 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.92%  |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 180590   | 42.29 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 84.58%  |          |

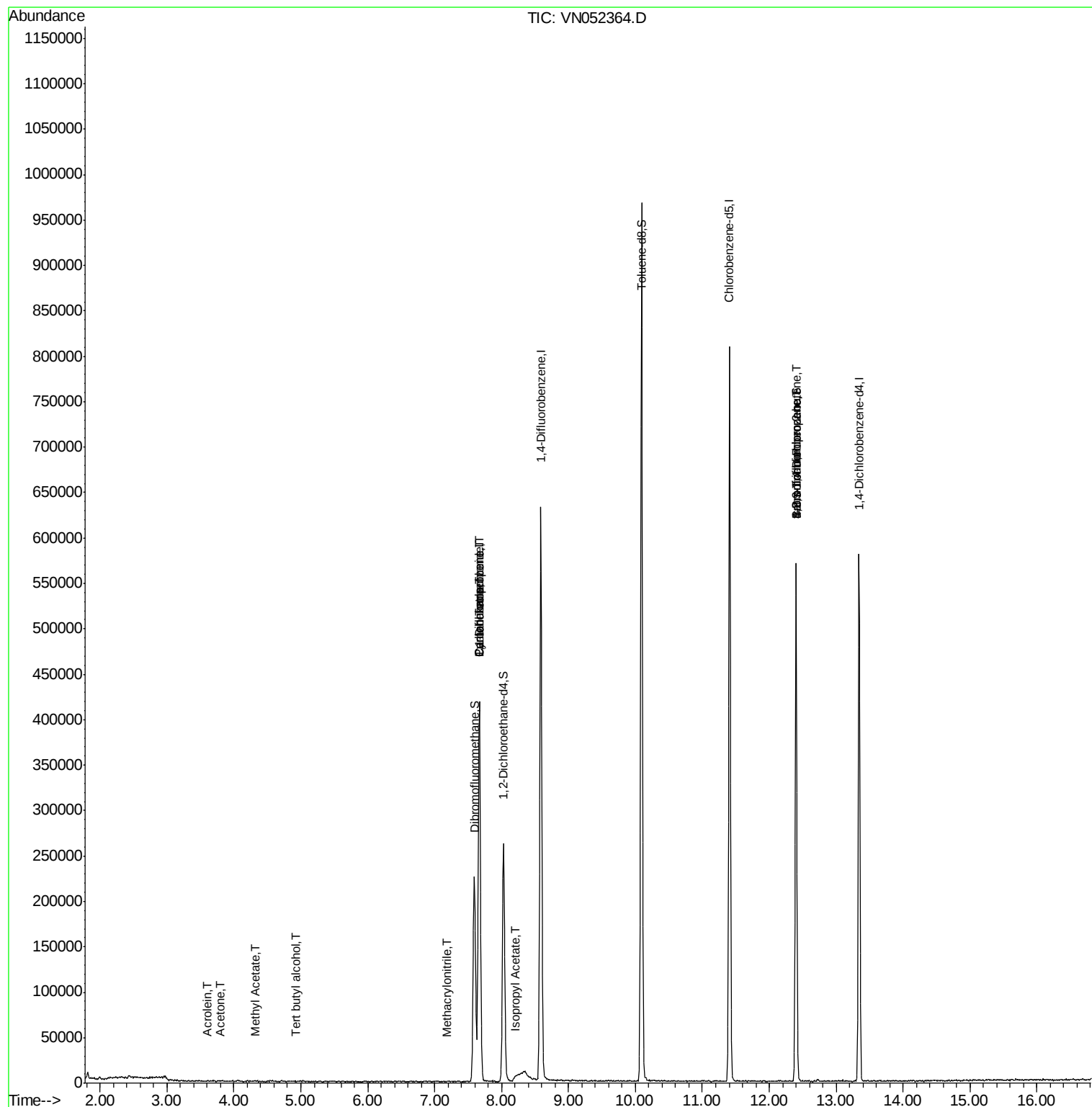
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 4.91  | 59   | 71       | 0.308     | ug/l # | 72     |
| 13) Acrolein                   | 3.61  | 56   | 102      | 22.039    | ug/l # | 48     |
| 16) Acetone                    | 3.81  | 43   | 360      | 0.300     | ug/l # | 44     |
| 18) Methyl Acetate             | 4.32  | 43   | 300      | 0.520     | ug/l # | 57     |
| 20) Methylene Chloride         | 4.54  | 84   | 192      | Below Cal | #      | 7      |
| 31) Cyclohexane                | 7.67  | 56   | 9244     | 0.341     | ug/l # | 41     |
| 36) 1,1-Dichloropropene        | 7.67  | 75   | 27977    | 5.456     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.67  | 117  | 33121    | 7.030     | ug/l # | 16     |
| 41) Methacrylonitrile          | 7.19  | 41   | 109      | 3.744     | ug/l # | 100    |
| 43) Isopropyl Acetate          | 8.20  | 43   | 3767     | 0.525     | ug/l # | 67     |
| 71) Bromoform                  | 12.40 | 173  | 1703     | 0.951     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 101817   | 42.770    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 101817   | 138.719   | ug/l # | 5      |

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

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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: VN052364.D

Acq: 16 Nov 2018 15:00

Instrument :

MSVOA\_N

ClientSampled :

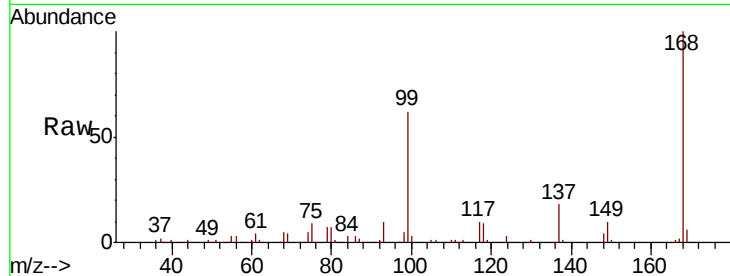
TB-111418

Tot Ion:168 Resp: 308703

Ion Ratio Lower Upper

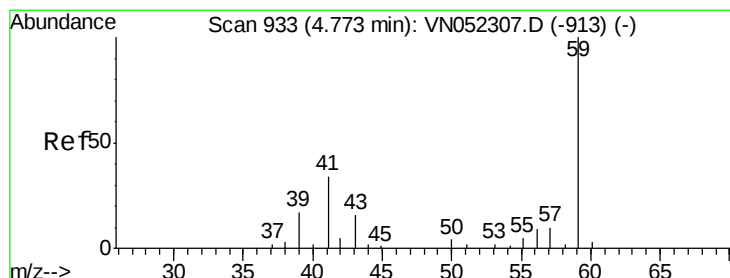
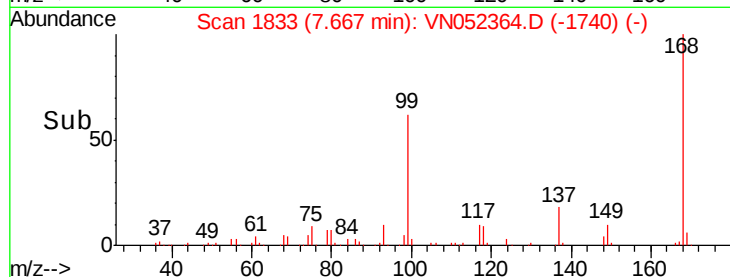
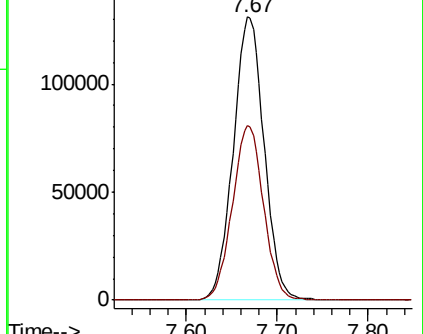
168 100

99 61.9 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): VN052307.D (-1814) (-)

Ion 98.90 (98.60 to 99.60): VN052307.D (-1814) (-)



#11

Tert butyl alcohol

Concen: 0.308 ug/l

RT: 4.91 min Scan# 977

Delta R.T. 0.14 min

Lab File: VN052364.D

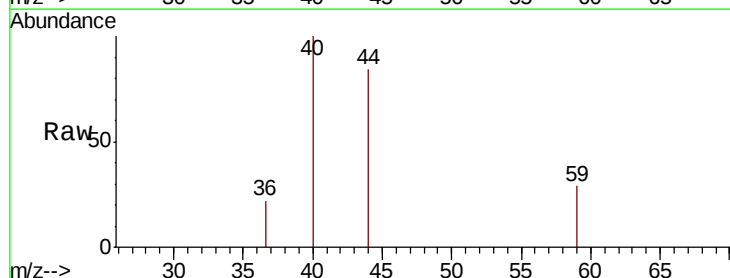
Acq: 16 Nov 2018 15:00

Tgt Ion: 59 Resp: 71

Ion Ratio Lower Upper

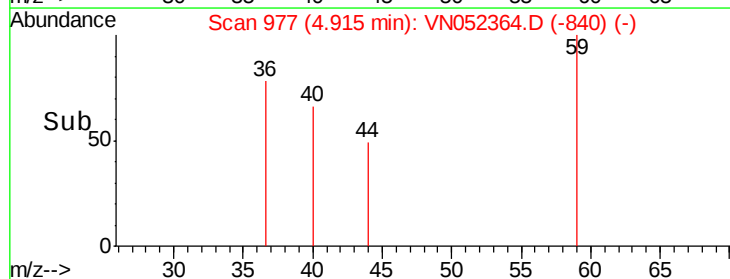
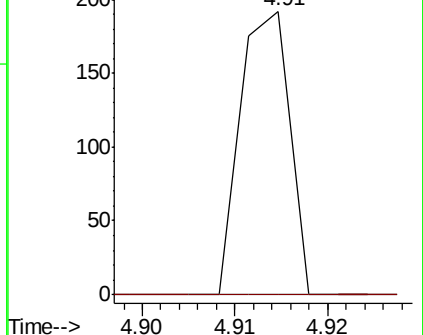
59 100

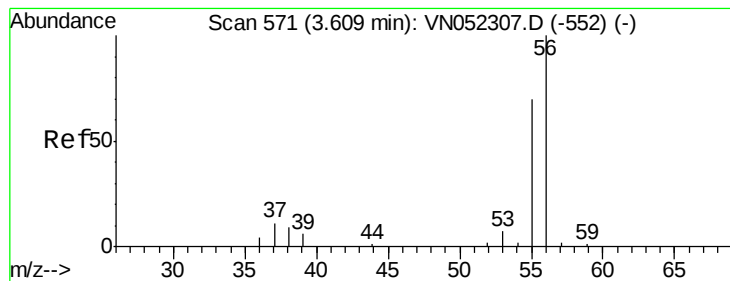
57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VN052307.D (-913) (-)

Ion 57.00 (56.70 to 57.70): VN052307.D (-913) (-)





#13

Acrolein

Concen: 22.039 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN052364.D

Acq: 16 Nov 2018 15:00

Instrument :

MSVOA\_N

ClientSampled :

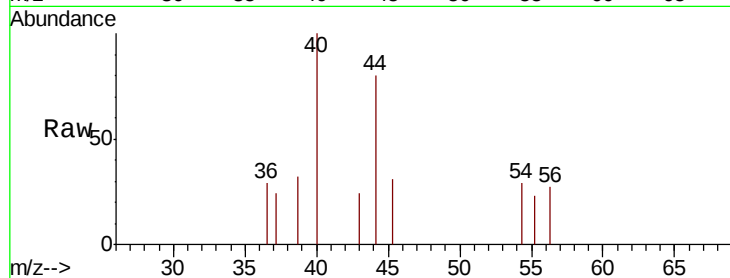
TB-111418

Tot Ion: 56 Resp: 102

Ion Ratio Lower Upper

56 100

55 28.4 57.6 86.4#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.61

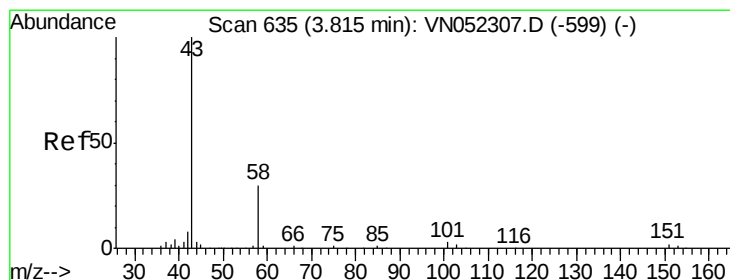
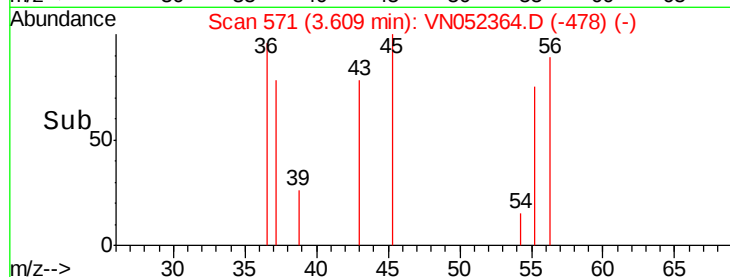
150

100

50

0

Time--> 3.59 3.60 3.61 3.62



#16

Acetone

Concen: 0.300 ug/l

RT: 3.81 min Scan# 632

Delta R.T. -0.01 min

Lab File: VN052364.D

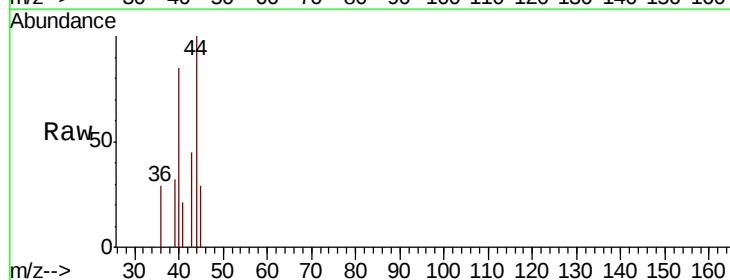
Acq: 16 Nov 2018 15:00

Tgt Ion: 43 Resp: 360

Ion Ratio Lower Upper

43 100

58 0.0 24.2 36.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.81

400

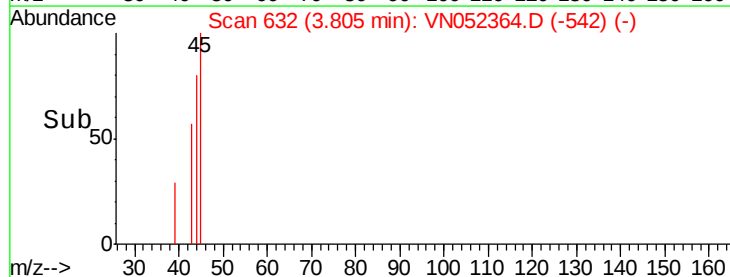
300

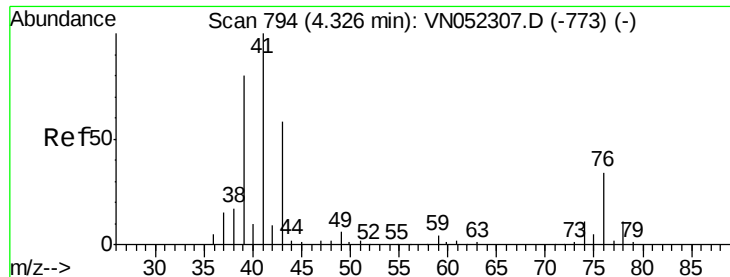
200

100

0

Time--> 3.78 3.79 3.80 3.81 3.82

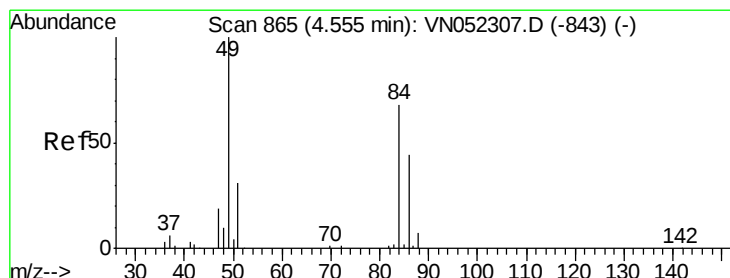
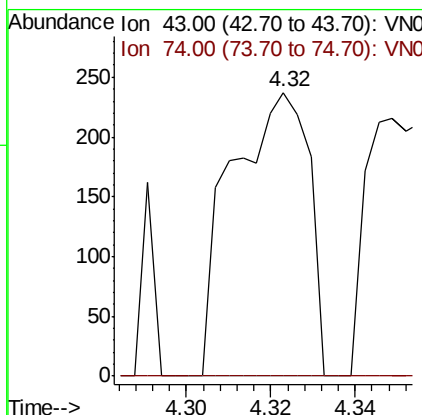
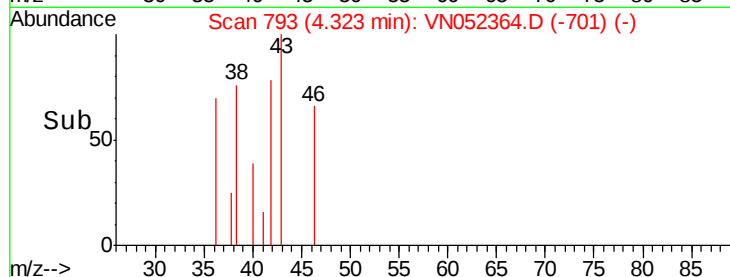
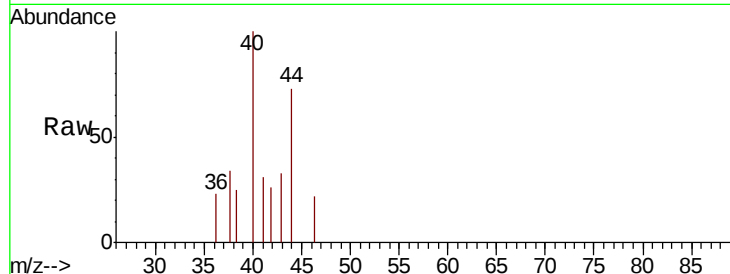




#18  
Methyl Acetate  
Concen: 0.520 ug/l  
RT: 4.32 min Scan# 793  
Delta R.T. -0.00 min  
Lab File: VN052364.D  
Acq: 16 Nov 2018 15:00

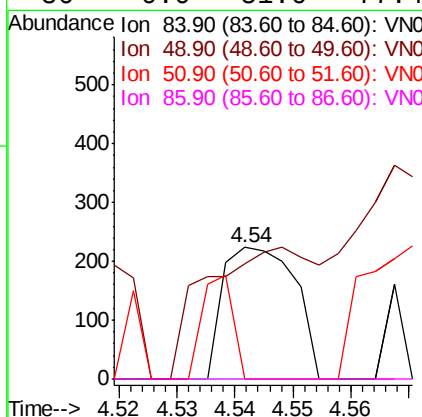
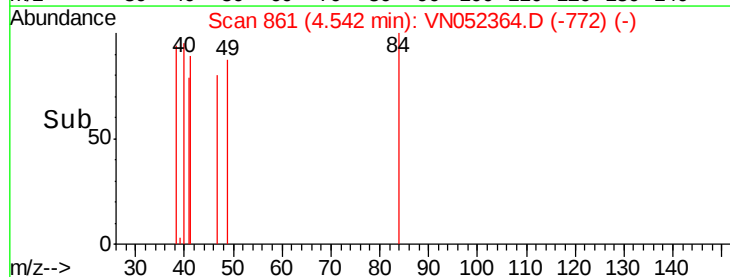
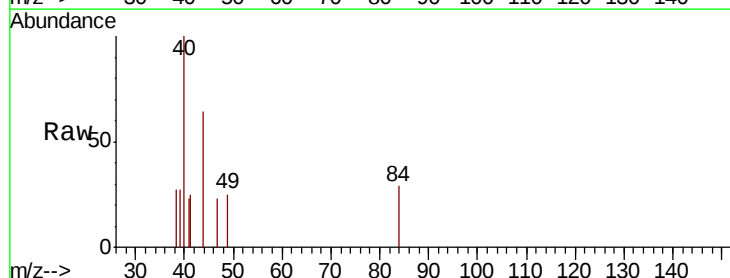
Instrument :  
MSVOA\_N  
ClientSampled :  
TB-111418

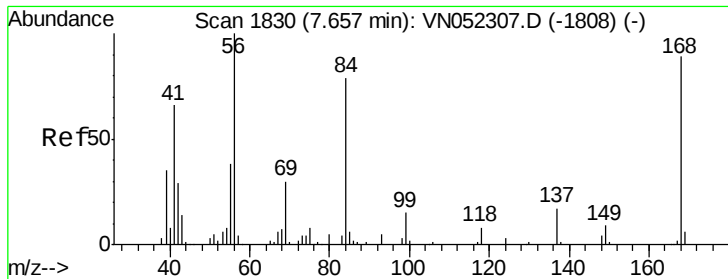
Tot Ion: 43 Resp: 300  
Ion Ratio Lower Upper  
43 100  
74 0.0 15.9 23.9#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.54 min Scan# 861  
Delta R.T. -0.01 min  
Lab File: VN052364.D  
Acq: 16 Nov 2018 15:00

Tgt Ion: 84 Resp: 192  
Ion Ratio Lower Upper  
84 100  
49 16.1 118.2 177.2#  
51 0.0 36.1 54.1#  
86 0.0 51.6 77.4#

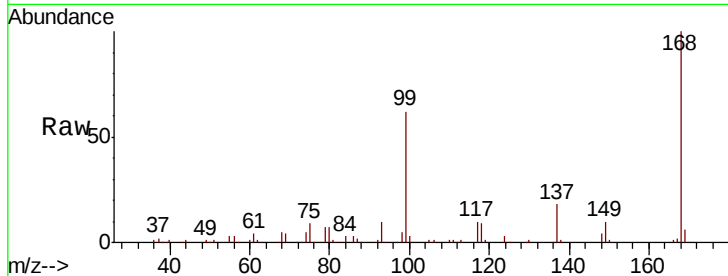




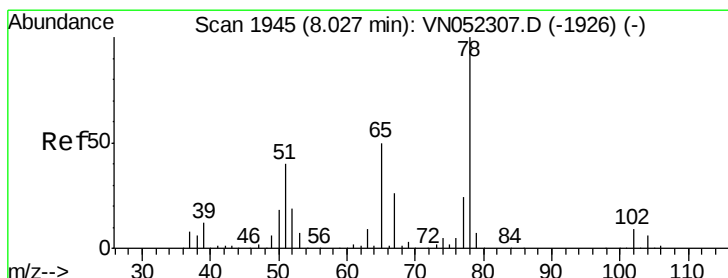
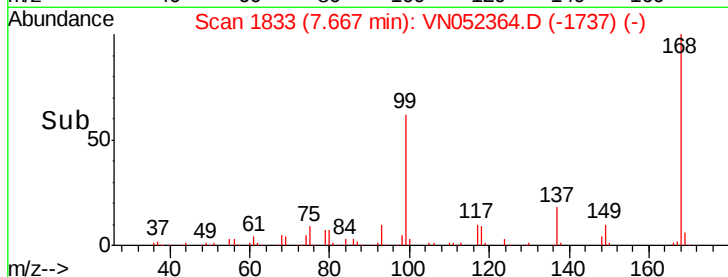
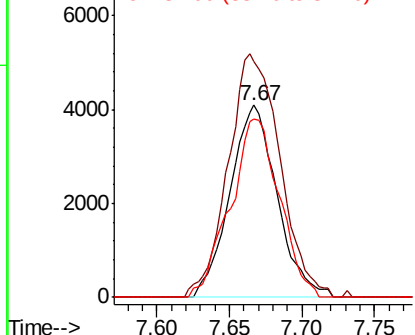
#31  
Cyclohexane  
Concen: 0.341 ug/l  
RT: 7.67 min Scan# 1833  
Delta R.T. 0.01 min  
Lab File: VN052364.D  
Acq: 16 Nov 2018 15:00

Instrument :  
MSVOA\_N  
ClientSampleId :  
TB-111418

Tot Ion: 56 Resp: 9244  
Ion Ratio Lower Upper  
56 100  
69 122.8 23.8 35.8#  
84 92.7 63.0 94.6

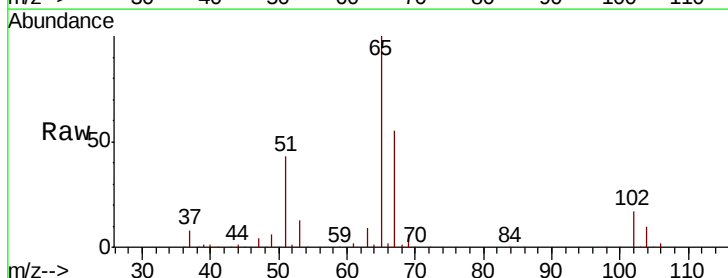


Abundance Ion 56.00 (55.70 to 56.70): VN0  
Ion 69.00 (68.70 to 69.70): VN0  
Ion 84.00 (83.70 to 84.70): VN0

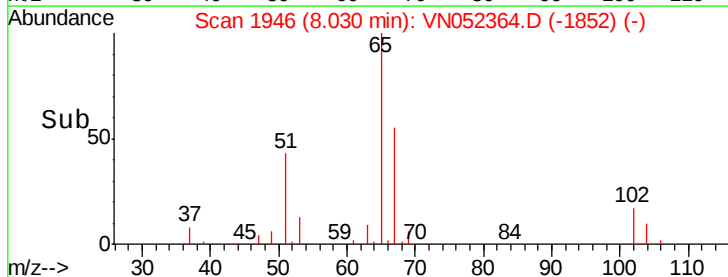
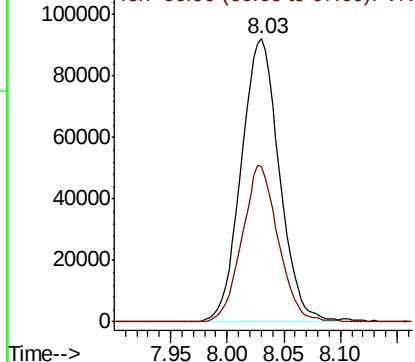


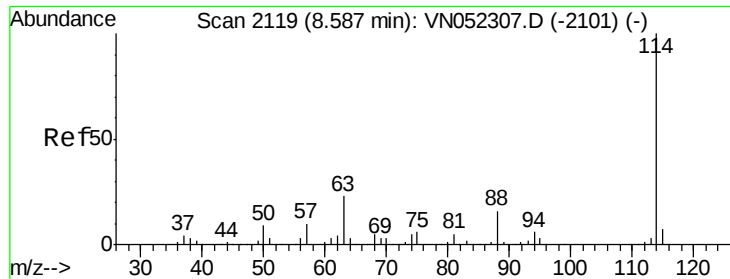
#33  
1,2-Dichloroethane-d4  
Concen: Below ug/l  
RT: 8.03 min Scan# 1946  
Delta R.T. 0.00 min  
Lab File: VN052364.D  
Acq: 16 Nov 2018 15:00

Tgt Ion: 65 Resp: 215878  
Ion Ratio Lower Upper  
65 100  
67 52.6 0.0 105.2



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

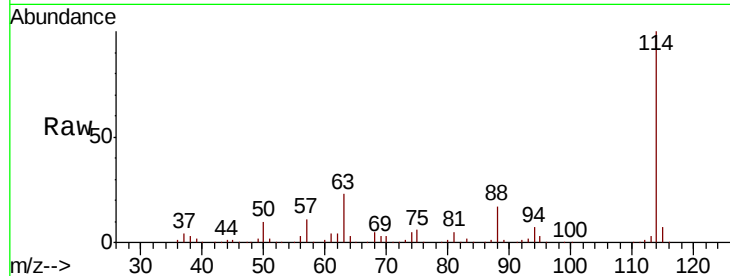




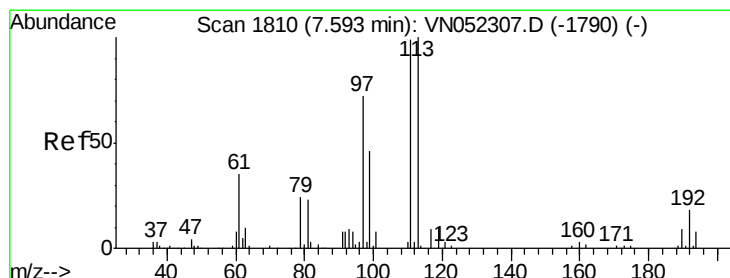
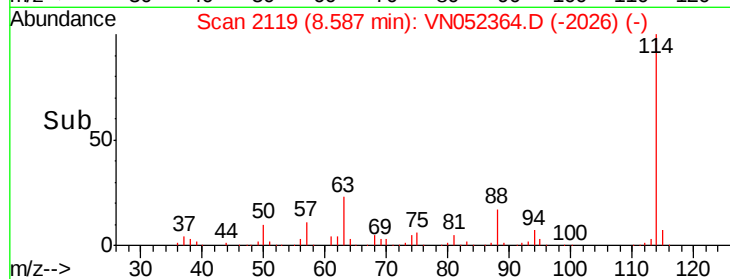
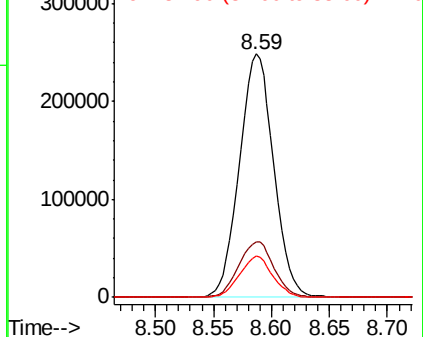
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. -0.00 min  
 Lab File: VN052364.D  
 Acq: 16 Nov 2018 15:00

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TB-111418

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 22.9  | 0.0   | 45.4  |
| 88      | 16.8  | 0.0   | 31.2  |

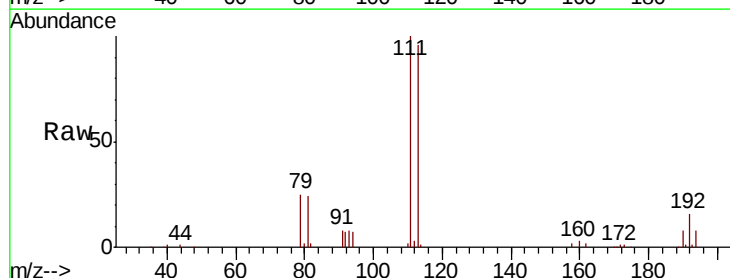


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

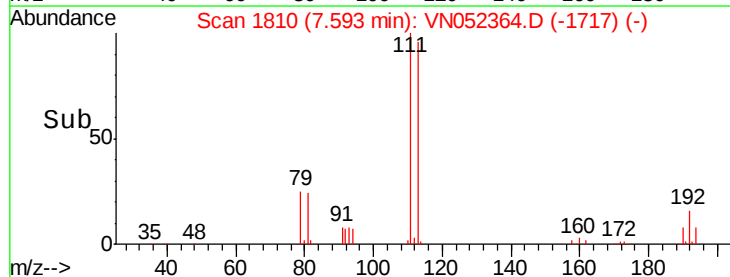
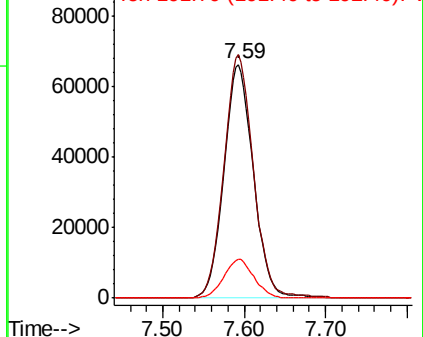


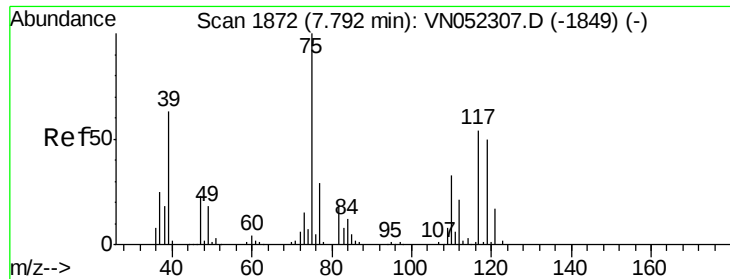
#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 7.59 min Scan# 1810  
 Delta R.T. -0.00 min  
 Lab File: VN052364.D  
 Acq: 16 Nov 2018 15:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 104.2 | 81.0  | 121.6 |
| 192     | 16.9  | 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: 5.456 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN052364.D

Acq: 16 Nov 2018 15:00

Instrument :

MSVOA\_N

ClientSampleId :

TB-111418

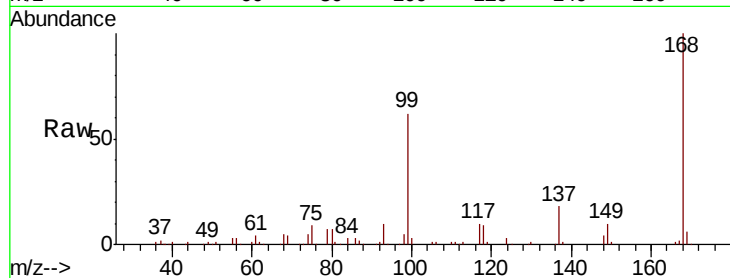
Tot Ion: 75 Resp: 27977

Ion Ratio Lower Upper

75 100

110 8.0 16.5 49.5#

77 0.0 24.2 36.2#

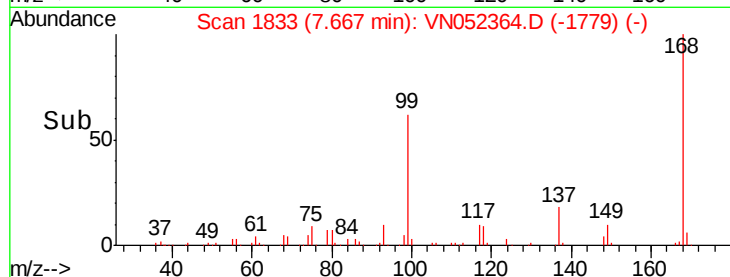


Abundance Ion 74.90 (74.60 to 75.60): VN052307.D (-1849) (-)

Ion 109.90 (109.60 to 110.60): VN052307.D (-1849) (-)

Ion 76.90 (76.60 to 77.60): VN052307.D (-1849) (-)

Time-->

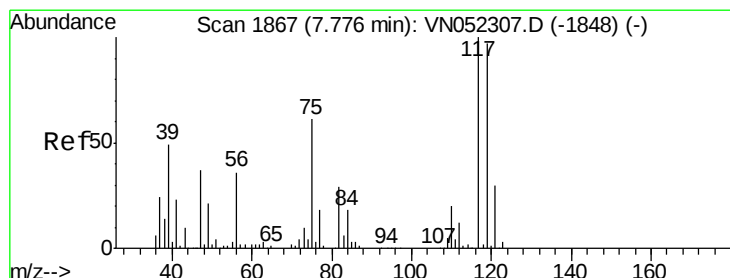


Abundance Ion 74.90 (74.60 to 75.60): VN052364.D (-1779) (-)

Ion 109.90 (109.60 to 110.60): VN052364.D (-1779) (-)

Ion 76.90 (76.60 to 77.60): VN052364.D (-1779) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 7.030 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.11 min

Lab File: VN052364.D

Acq: 16 Nov 2018 15:00

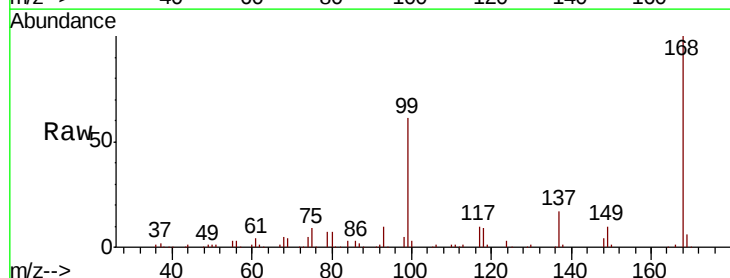
Tgt Ion: 117 Resp: 33121

Ion Ratio Lower Upper

117 100

119 5.1 77.4 116.0#

121 0.0 24.0 36.0#

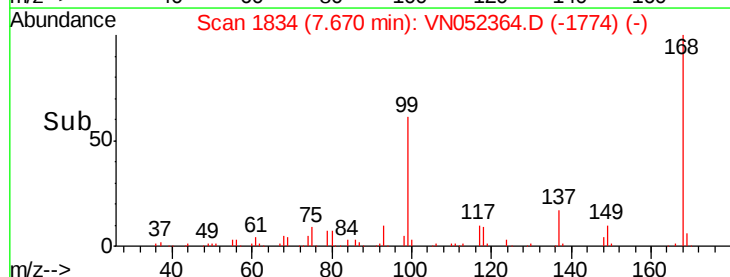


Abundance Ion 116.80 (116.50 to 117.50): VN052307.D (-1848) (-)

Ion 118.80 (118.50 to 119.50): VN052307.D (-1848) (-)

Ion 120.80 (120.50 to 121.50): VN052307.D (-1848) (-)

Time-->

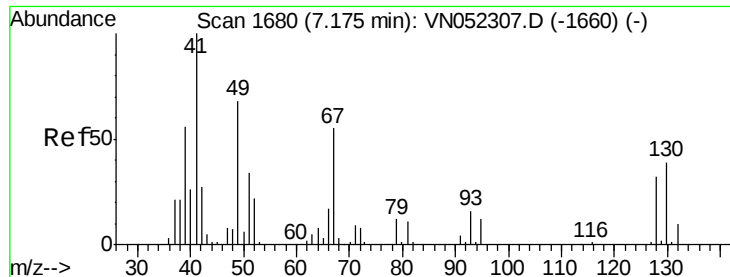


Abundance Ion 116.80 (116.50 to 117.50): VN052364.D (-1774) (-)

Ion 118.80 (118.50 to 119.50): VN052364.D (-1774) (-)

Ion 120.80 (120.50 to 121.50): VN052364.D (-1774) (-)

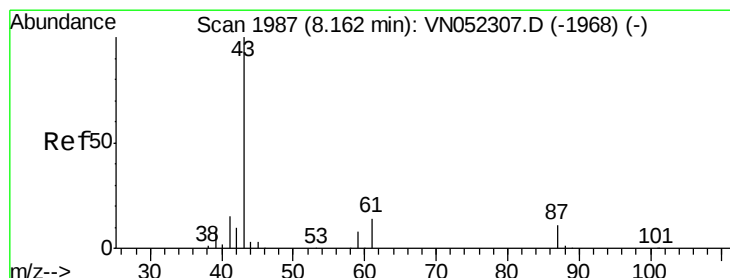
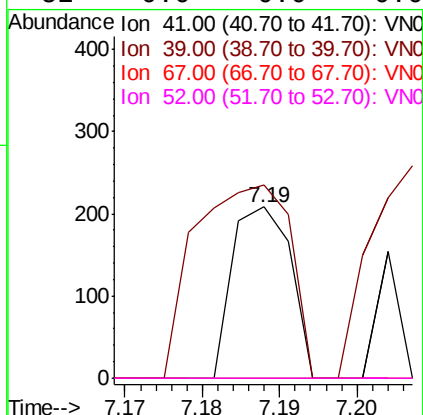
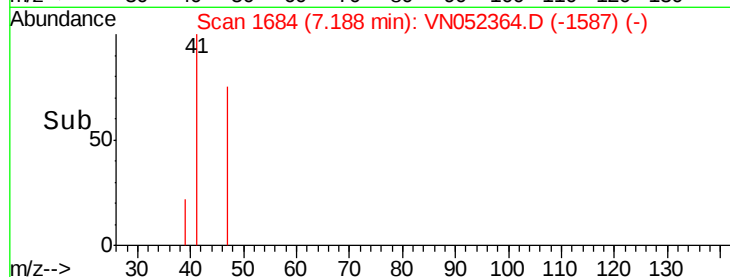
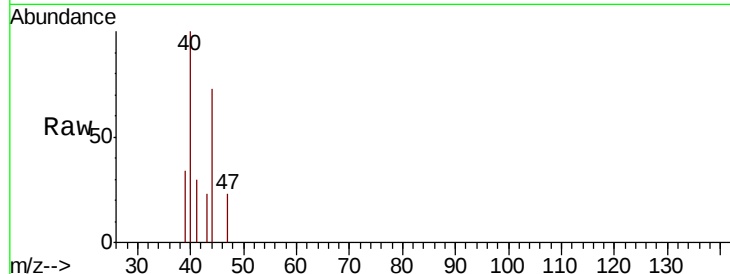
Time-->



#41  
Methacrylonitrile  
Concen: 3.744 ug/l  
RT: 7.19 min Scan# 1684  
Delta R.T. 0.01 min  
Lab File: VN052364.D  
Acq: 16 Nov 2018 15:00

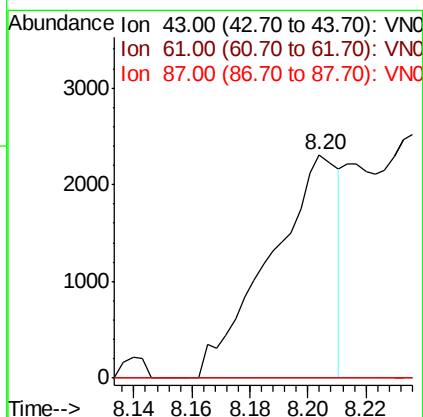
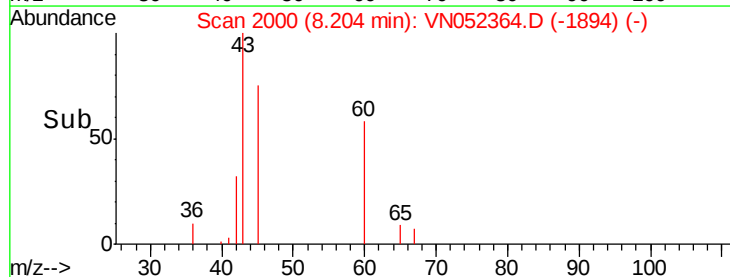
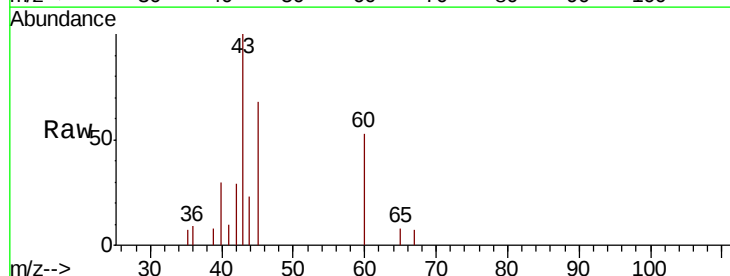
Instrument :  
MSVOA\_N  
ClientSampled :  
TB-111418

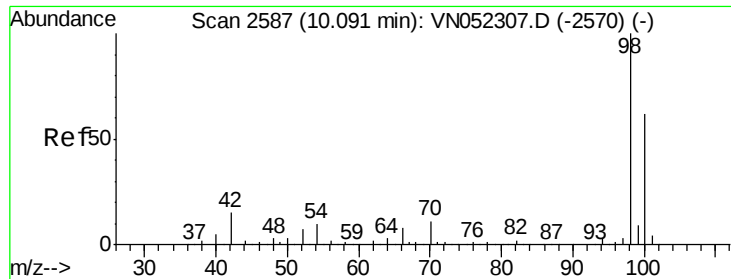
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 109   |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 185.3 | 0.0   | 0.0#  |
| 67       | 0.0   | 0.0   | 0.0   |
| 52       | 0.0   | 0.0   | 0.0   |



#43  
Isopropyl Acetate  
Concen: 0.525 ug/l  
RT: 8.20 min Scan# 2000  
Delta R.T. 0.04 min  
Lab File: VN052364.D  
Acq: 16 Nov 2018 15:00

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 3767  |
| 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: VN052364.D

Acq: 16 Nov 2018 15:00

Instrument :

MSVOA\_N

ClientSampleId :

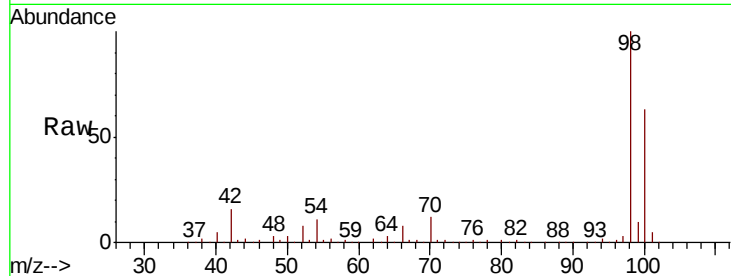
TB-111418

Tot Ion: 98 Resp: 635581

Ion Ratio Lower Upper

98 100

100 62.0 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

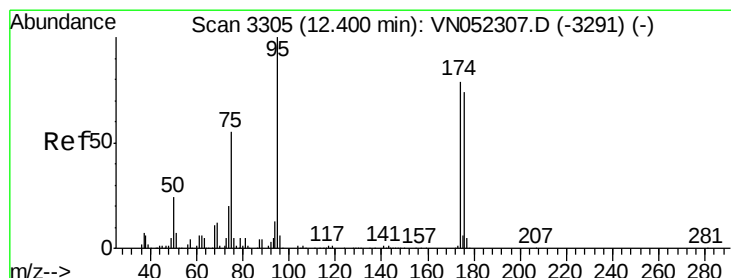
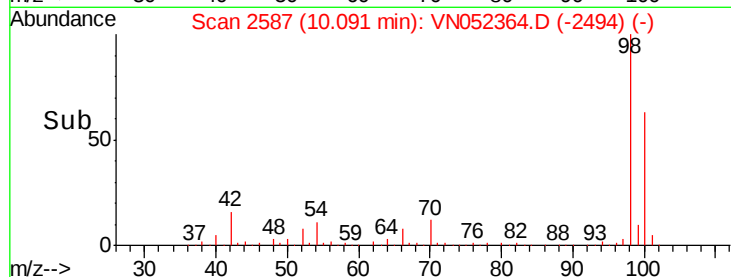
300000

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: VN052364.D

Acq: 16 Nov 2018 15:00

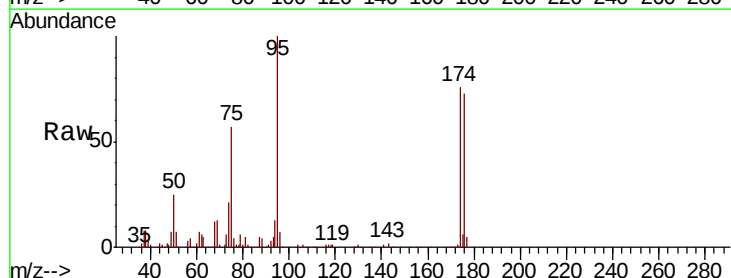
Tgt Ion: 95 Resp: 180590

Ion Ratio Lower Upper

95 100

174 76.5 0.0 156.0

176 72.3 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) (-)

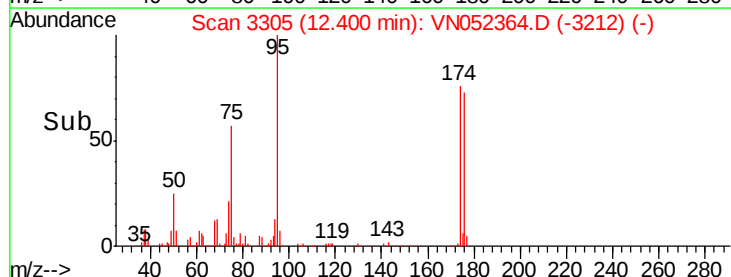
12.40

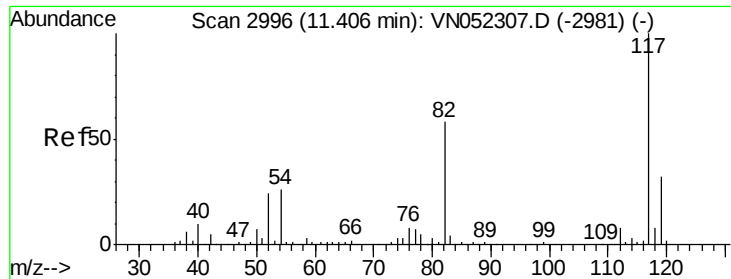
100000

50000

0

Time-->

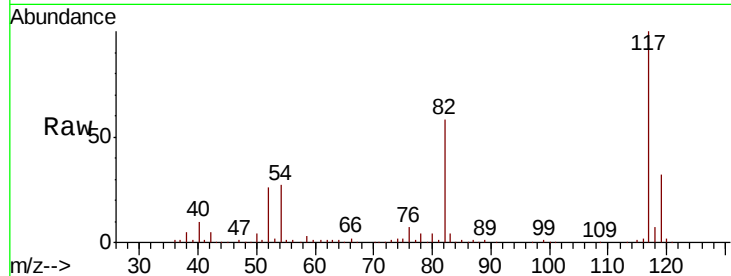




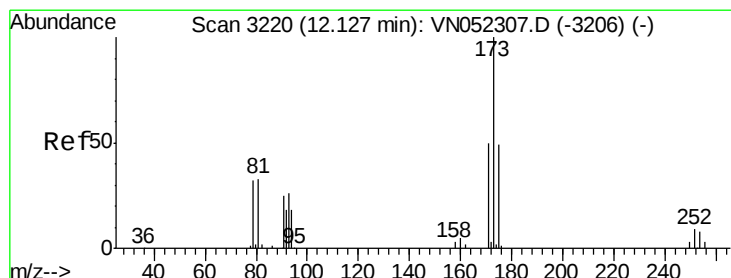
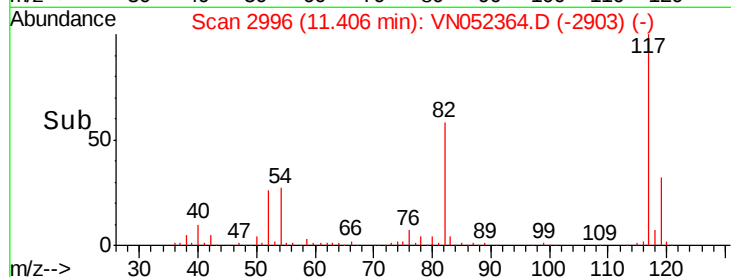
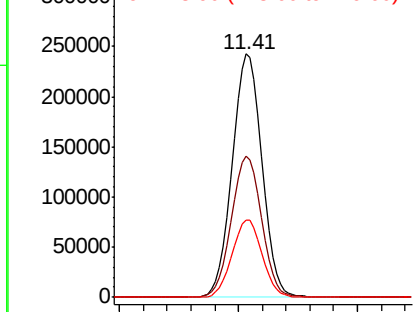
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. -0.00 min  
Lab File: VN052364.D  
Acq: 16 Nov 2018 15:00

Instrument :  
MSVOA\_N  
ClientSampled :  
TB-111418

Tot Ion:117 Resp: 420818  
Ion Ratio Lower Upper  
117 100  
82 58.1 46.5 69.7  
119 31.9 25.7 38.5

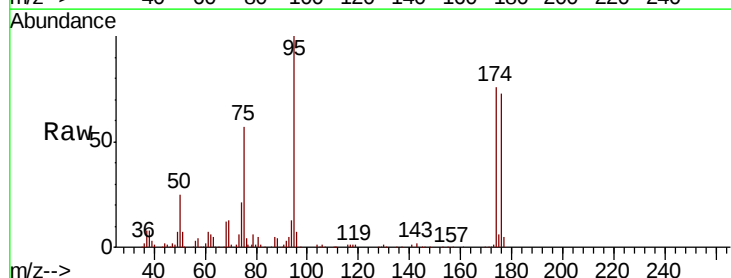


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

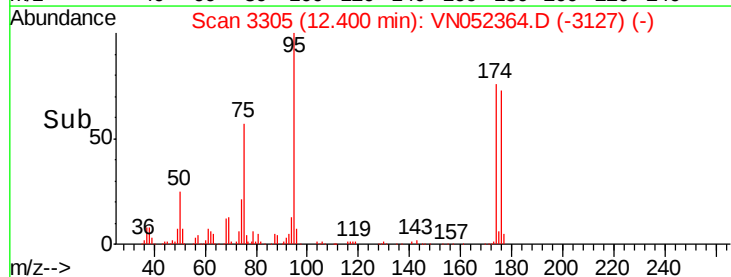
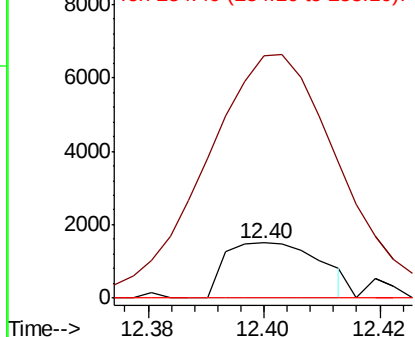


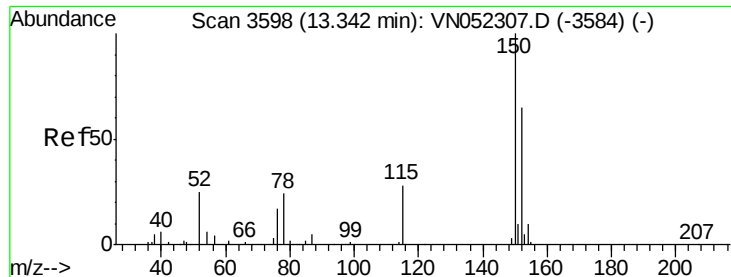
#71  
Bromoform  
Concen: 0.951 ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. 0.27 min  
Lab File: VN052364.D  
Acq: 16 Nov 2018 15:00

Tgt Ion:173 Resp: 1703  
Ion Ratio Lower Upper  
173 100  
175 556.1 25.0 75.0#  
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: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN052364.D

Acq: 16 Nov 2018 15:00

Instrument :

MSVOA\_N

ClientSampleId :

TB-111418

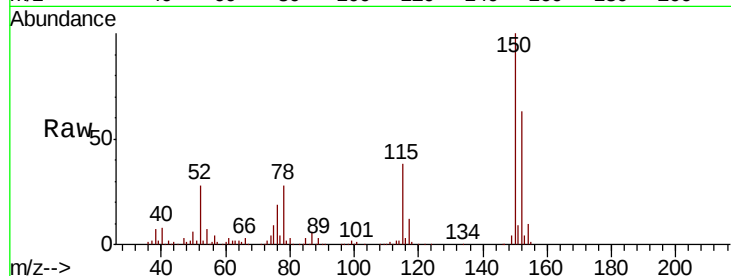
Tot Ion:152 Resp: 140297

Ion Ratio Lower Upper

152 100

115 61.0 30.3 91.0

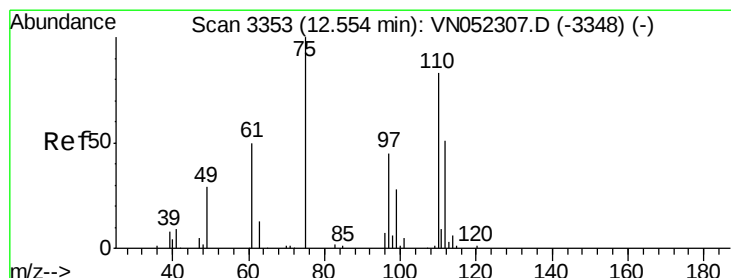
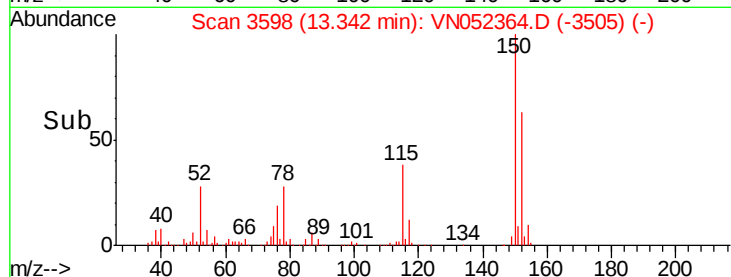
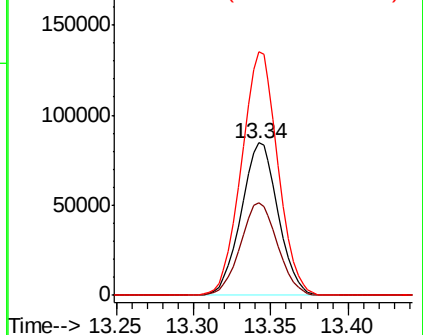
150 157.3 0.0 348.2



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: 42.770 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052364.D

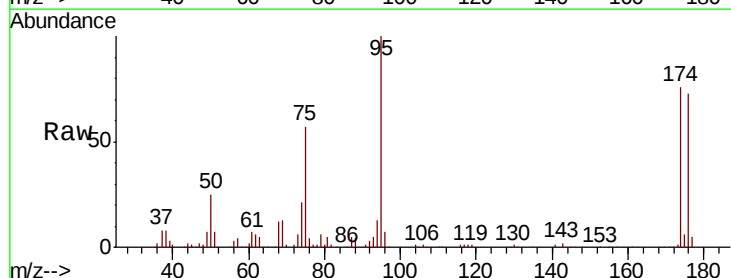
Acq: 16 Nov 2018 15:00

Tgt Ion: 75 Resp: 101817

Ion Ratio Lower Upper

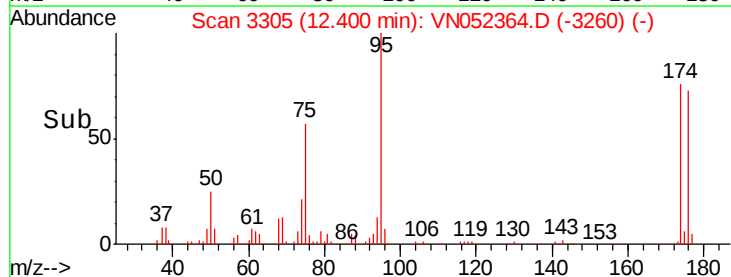
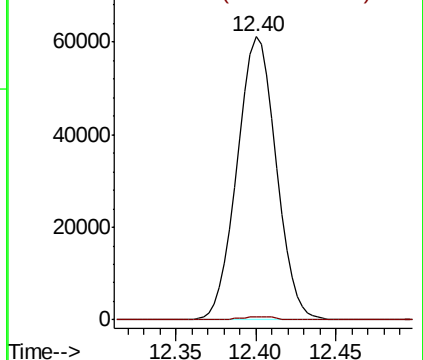
75 100

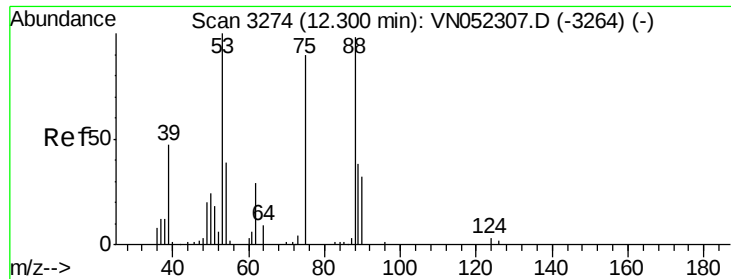
77 1.1 0.0 0.0#



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: 138.719 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052364.D

Acq: 16 Nov 2018 15:00

Instrument :

MSVOA\_N

ClientSampleId :

TB-111418

Tot Ion: 75 Resp: 101817

Ion Ratio Lower Upper

75 100

53 0.0 90.2 135.2#

89 0.0 35.4 53.0#

