

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN020419\  
 Data File : VN053594.D  
 Acq On : 4 Feb 2019 14:10  
 Operator : JC/SP  
 Sample : K1299-04  
 Misc : 5.06µL/10µL/100µL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 10 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 0041-FIELD-DUP

Quant Time: Feb 05 01:26:30 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N013019W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 01 09:11:52 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.66  | 168  | 736956   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 1244022  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 1122213  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 516224   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.02  | 65   | 389174   | 52.64 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.28% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 382291   | 48.63 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.26%  |          |
| 50) Toluene-d8              | 10.09 | 98   | 1499127  | 50.79 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.58% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 504331   | 51.23 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.46% |          |

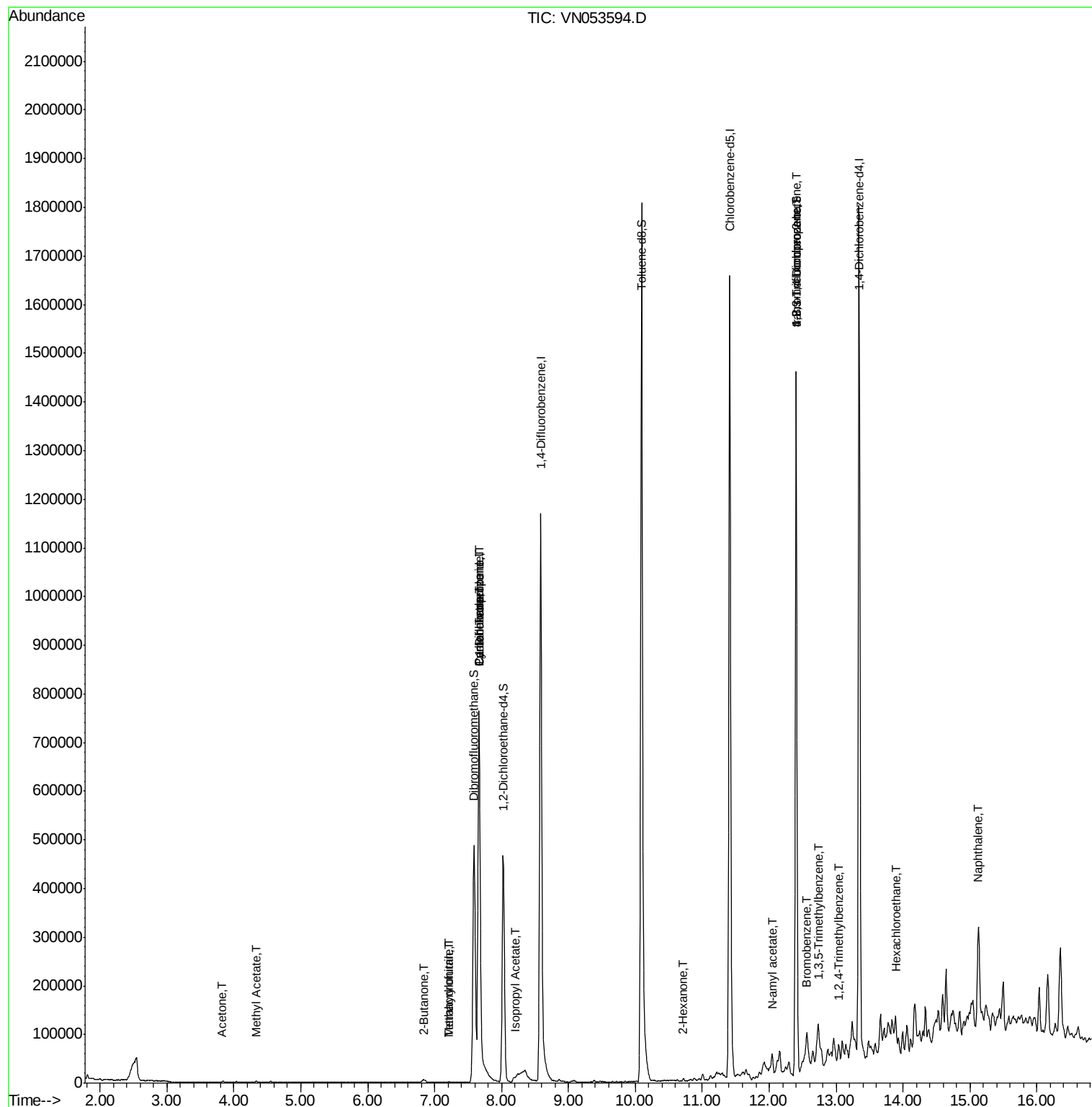
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 16) Acetone                    | 3.81  | 43   | 1103     | 0.582  | ug/l   | 100    |
| 18) Methyl Acetate             | 4.34  | 43   | 3860     | 0.687  | ug/l   | 99     |
| 25) 2-Butanone                 | 6.84  | 43   | 739      | 0.273  | ug/l # | 47     |
| 29) Tetrahydrofuran            | 7.21  | 42   | 793      | 0.457  | ug/l # | 65     |
| 31) Cyclohexane                | 7.66  | 56   | 11438    | 0.748  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.66  | 75   | 46244    | 4.124  | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 7.67  | 117  | 63133    | 5.588  | ug/l # | 16     |
| 41) Methacrylonitrile          | 7.22  | 41   | 841      | 0.240  | ug/l # | 28     |
| 43) Isopropyl Acetate          | 8.19  | 43   | 6864     | 0.567  | ug/l # | 51     |
| 59) 2-Hexanone                 | 10.72 | 43   | 2126     | 0.527  | ug/l # | 22     |
| 74) N-amyl acetate             | 12.04 | 43   | 8099     | 0.928  | ug/l # | 63     |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 233570   | 35.226 | ug/l # | 100    |
| 77) Bromobenzene               | 12.57 | 156  | 54921    | 5.615  | ug/l # | 1      |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 11301    | 0.376  | ug/l   | 93     |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 233570   | 99.053 | ug/l # | 15     |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 16268    | 0.531  | ug/l   | 96     |
| 90) Hexachloroethane           | 13.89 | 117  | 1667     | 0.319  | ug/l # | 3      |
| 95) Naphthalene                | 15.13 | 128  | 153403   | 8.266  | ug/l   | 99     |

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

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Quant Time: Feb 05 01:26:30 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N013019W.M  
Quant Title : SW846 8260  
QLast Update : Fri Feb 01 09:11:52 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN053594.D

Acq: 4 Feb 2019 14:10

Instrument :

MSVOA\_N

ClientSampleId :

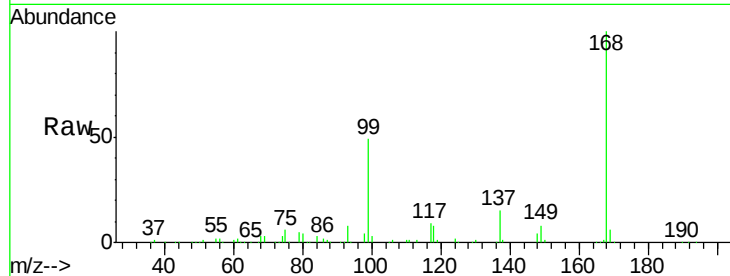
0041-FIELD-DUP

Tot Ion:168 Resp: 736956

Ion Ratio Lower Upper

168 100

99 49.2 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

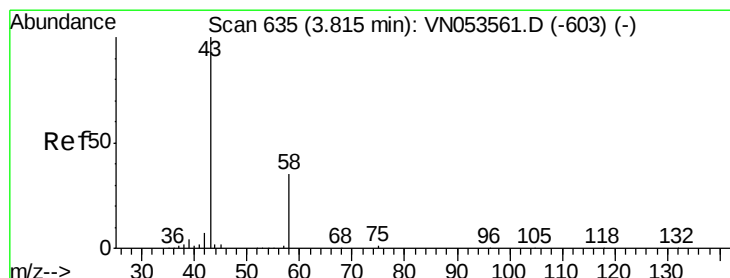
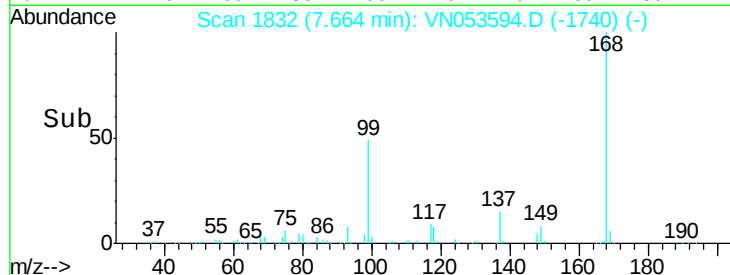
300000

200000

100000

0

Time-->



#16

Acetone

Concen: 0.582 ug/l

RT: 3.81 min Scan# 634

Delta R.T. -0.00 min

Lab File: VN053594.D

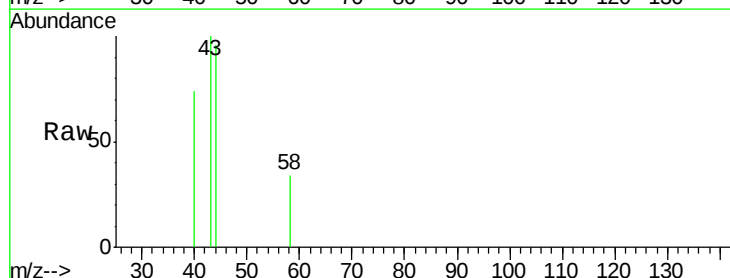
Acq: 4 Feb 2019 14:10

Tgt Ion: 43 Resp: 1103

Ion Ratio Lower Upper

43 100

58 34.1 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

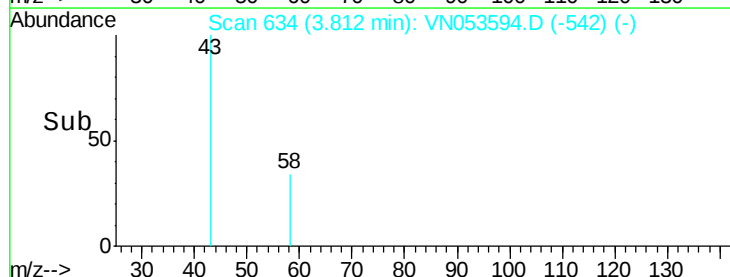
3.81

1000

500

0

Time-->

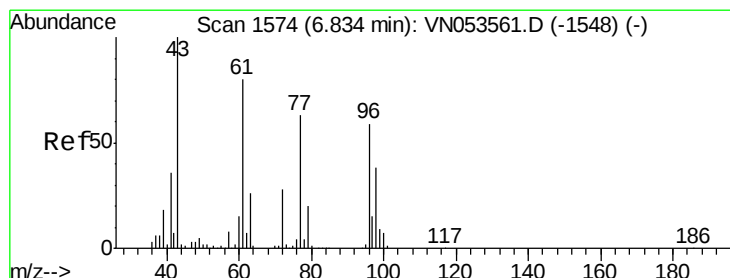
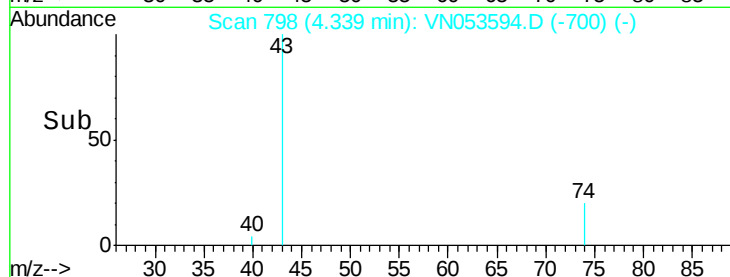
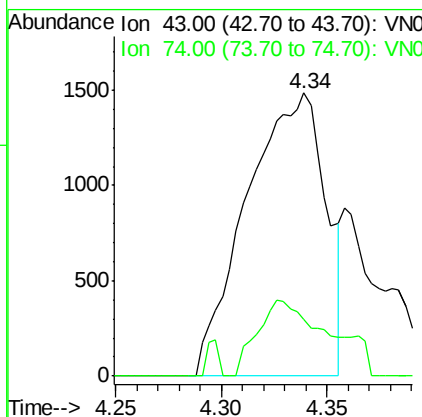
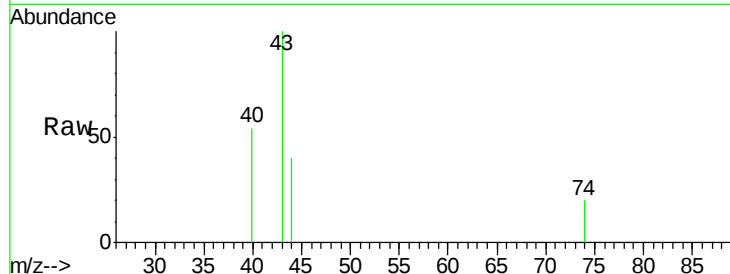




#18  
Methyl Acetate  
Concen: 0.687 ug/l  
RT: 4.34 min Scan# 798  
Delta R.T. 0.02 min  
Lab File: VN053594.D  
Acq: 4 Feb 2019 14:10

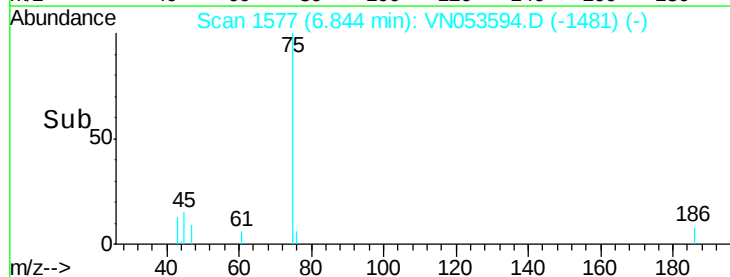
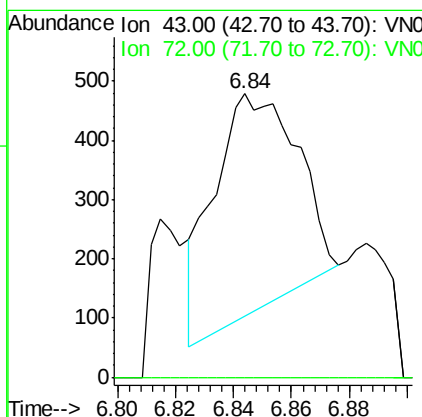
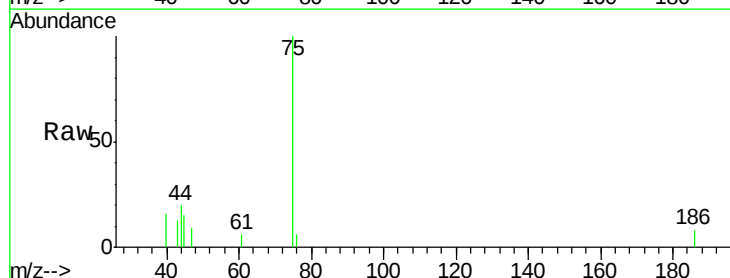
Instrument :  
MSVOA\_N  
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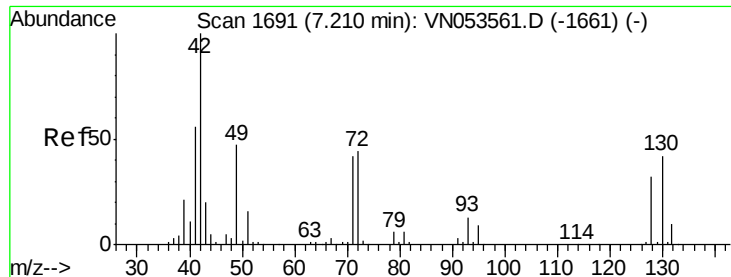
Tot Ion: 43 Resp: 3860  
Ion Ratio Lower Upper  
43 100  
74 24.6 19.4 29.2



#25  
2-Butanone  
Concen: 0.273 ug/l  
RT: 6.84 min Scan# 1577  
Delta R.T. 0.01 min  
Lab File: VN053594.D  
Acq: 4 Feb 2019 14:10

Tgt Ion: 43 Resp: 739  
Ion Ratio Lower Upper  
43 100  
72 0.0 22.0 33.0#





#29

Tetrahydrofuran

Concen: 0.457 ug/l

RT: 7.21 min Scan# 1690

Delta R.T. -0.00 min

Lab File: VN053594.D

Acq: 4 Feb 2019 14:10

Instrument :

MSVOA\_N

ClientSampleId :

0041-FIELD-DUP

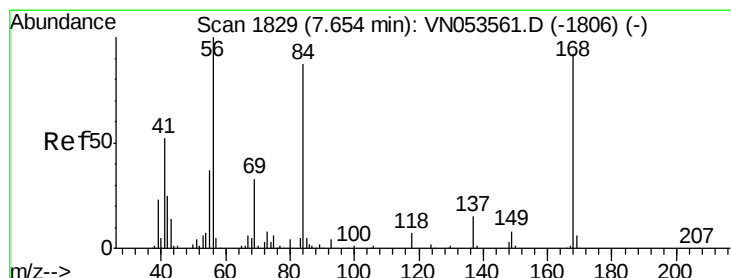
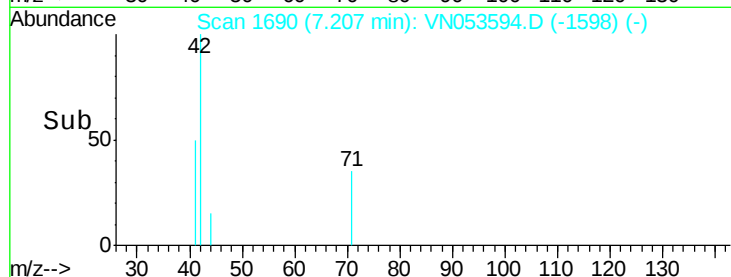
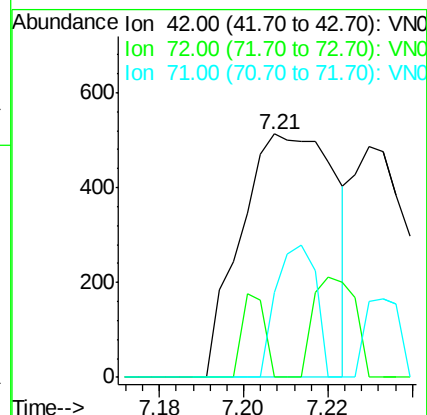
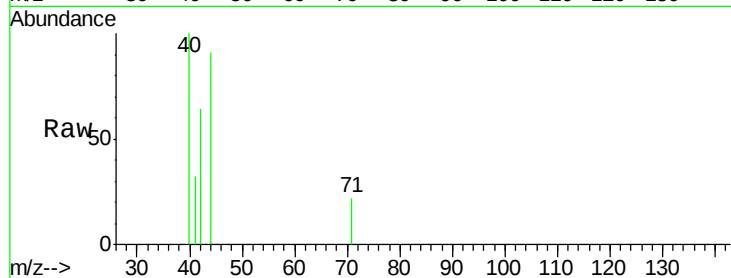
Tot Ion: 42 Resp: 793

Ion Ratio Lower Upper

42 100

72 18.4 35.2 52.8#

71 23.0 33.0 49.4#



#31

Cyclohexane

Concen: 0.748 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN053594.D

Acq: 4 Feb 2019 14:10

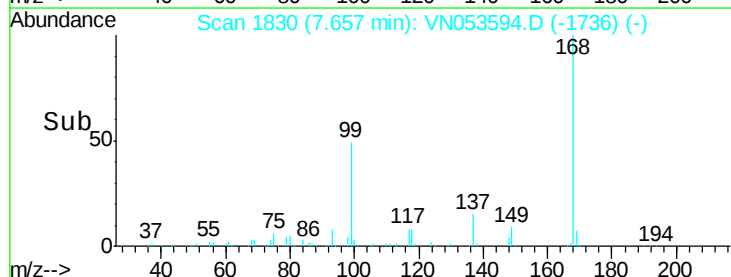
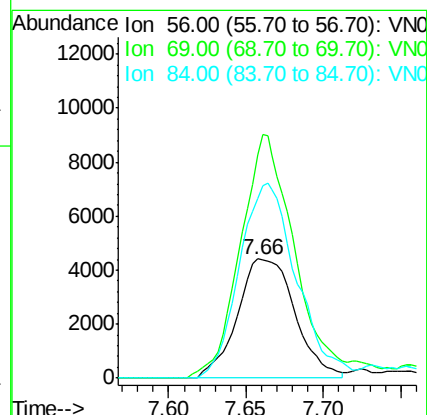
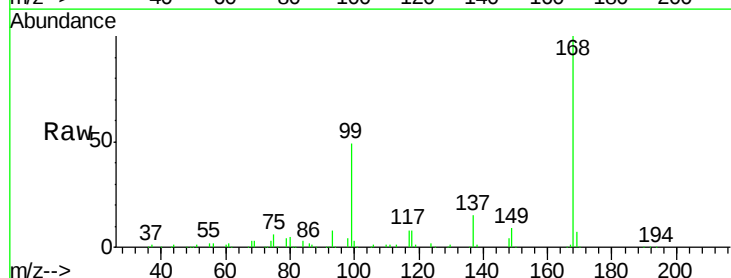
Tgt Ion: 56 Resp: 11438

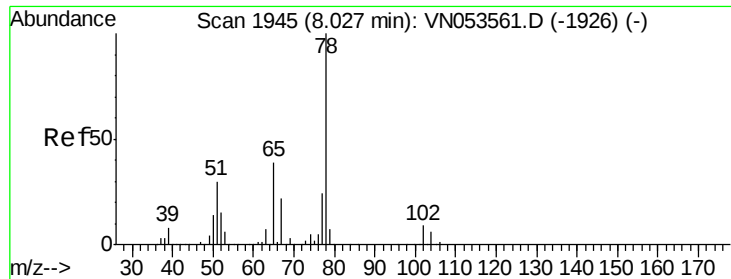
Ion Ratio Lower Upper

56 100

69 183.7 26.4 39.6#

84 150.8 67.9 101.9#

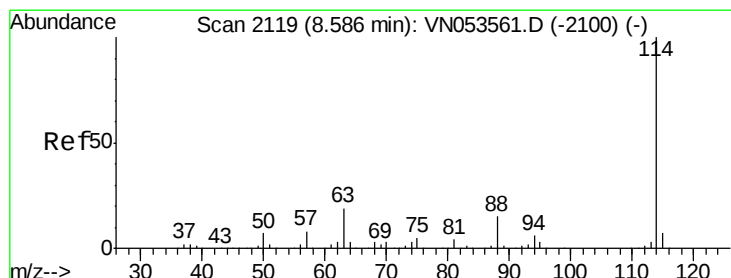
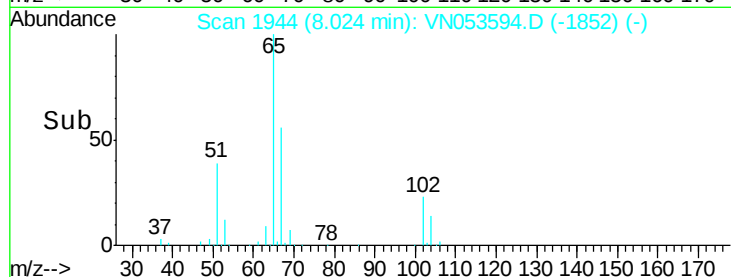
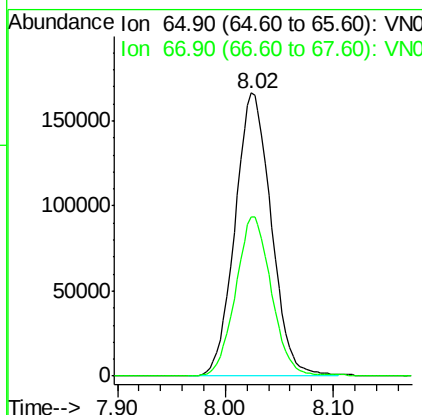
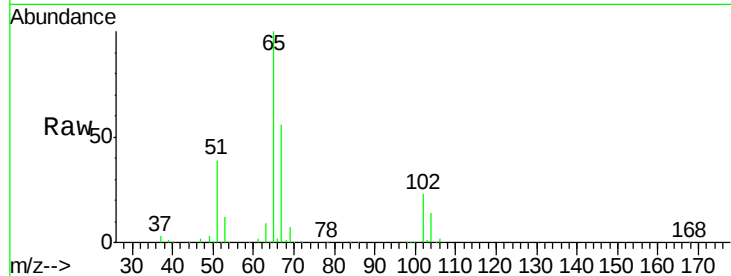




#33  
 1,2-Dichloroethane-d4  
 Concen: N.D. ug/l  
 RT: 8.02 min Scan# 1944  
 Delta R.T. -0.00 min  
 Lab File: VN053594.D  
 Acq: 4 Feb 2019 14:10

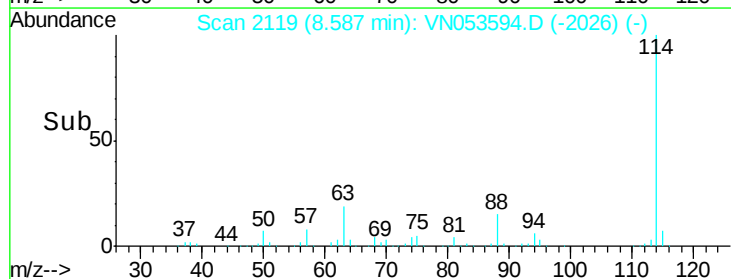
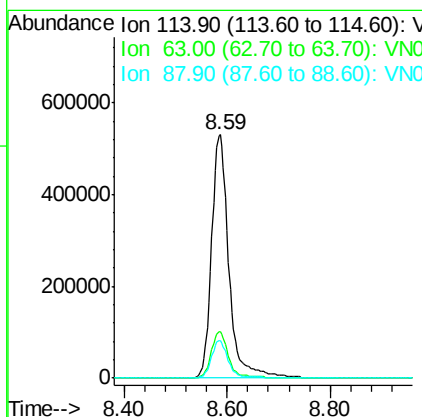
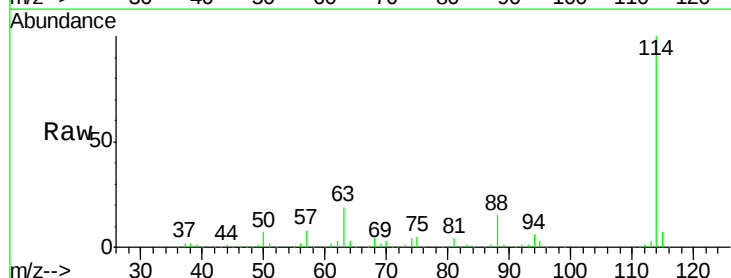
Instrument :  
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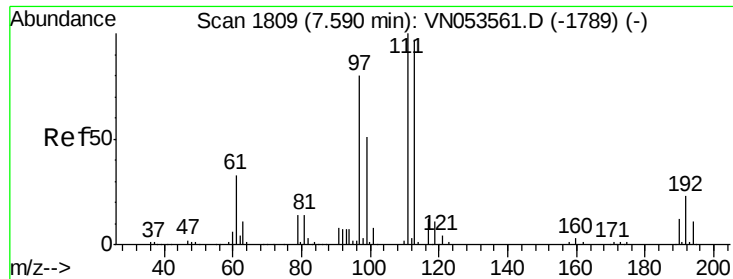
Tot Ion: 65 Resp: 389174  
 Ion Ratio Lower Upper  
 65 100  
 67 55.8 0.0 111.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. 0.00 min  
 Lab File: VN053594.D  
 Acq: 4 Feb 2019 14:10

Tgt Ion: 114 Resp: 1244022  
 Ion Ratio Lower Upper  
 114 100  
 63 19.2 0.0 38.6  
 88 15.3 0.0 30.4

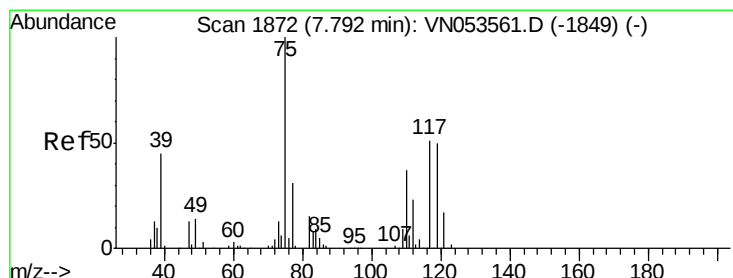
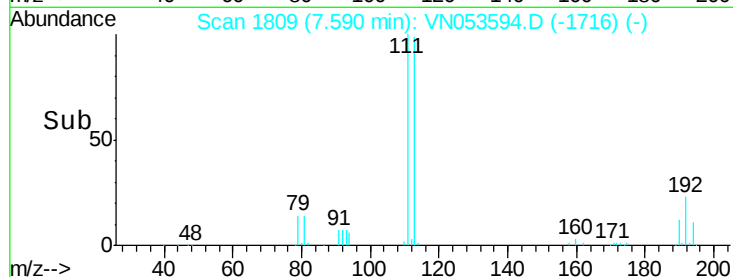
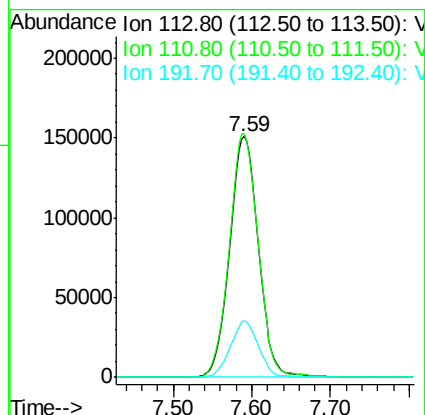
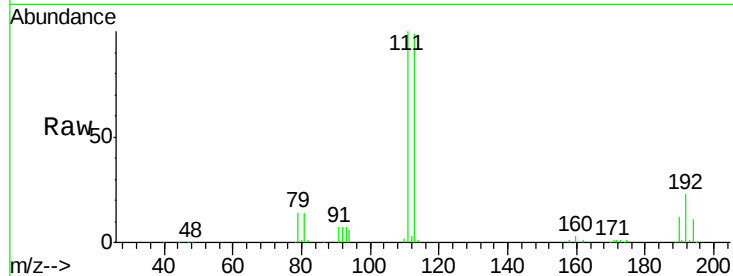




#35  
Dibromofluoromethane  
Concen: 50.000 ug/l  
RT: 7.59 min Scan# 1809  
Delta R.T. 0.00 min  
Lab File: VN053594.D  
Acq: 4 Feb 2019 14:10

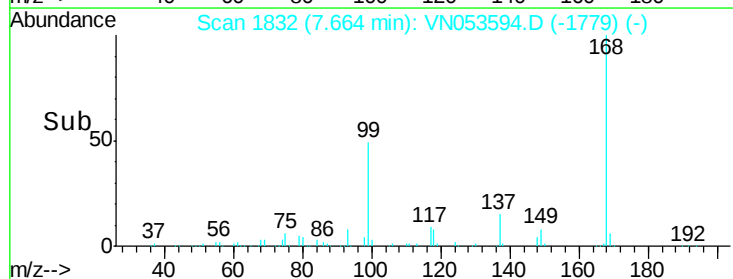
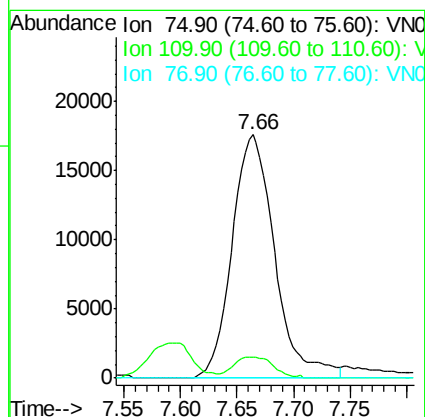
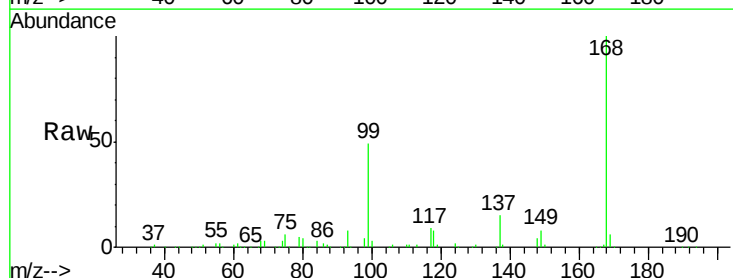
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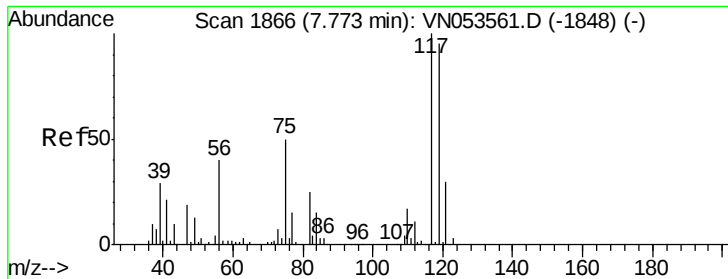
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.5 | 81.1  | 121.7 |
| 192     | 23.0  | 18.2  | 27.2  |



#36  
1,1-Dichloropropene  
Concen: 4.124 ug/l  
RT: 7.66 min Scan# 1832  
Delta R.T. -0.13 min  
Lab File: VN053594.D  
Acq: 4 Feb 2019 14:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.2   | 18.1  | 54.3# |
| 77      | 0.0   | 25.1  | 37.7# |





#38

Carbon Tetrachloride

Concen: 5.588 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053594.D

Acq: 4 Feb 2019 14:10

Instrument :

MSVOA\_N

ClientSampleId :

0041-FIELD-DUP

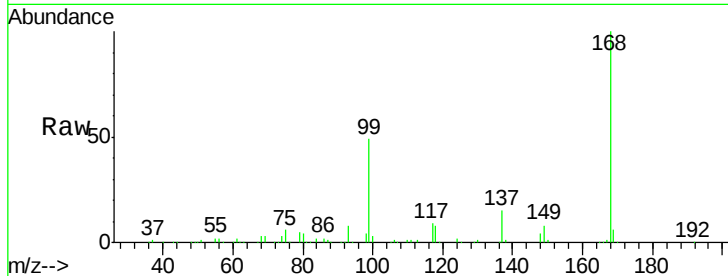
Tot Ion:117 Resp: 63133

Ion Ratio Lower Upper

117 100

119 5.2 77.2 115.8#

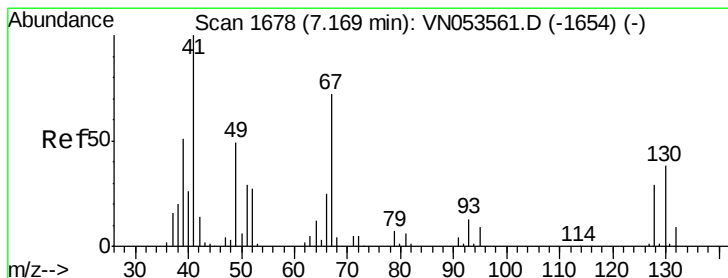
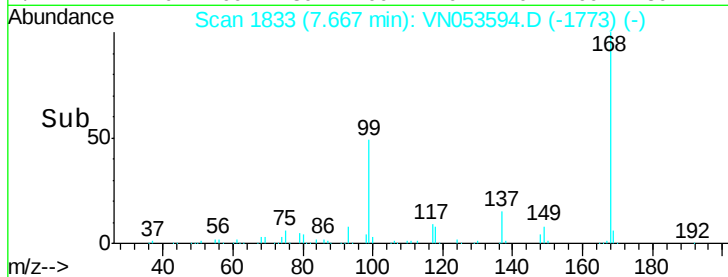
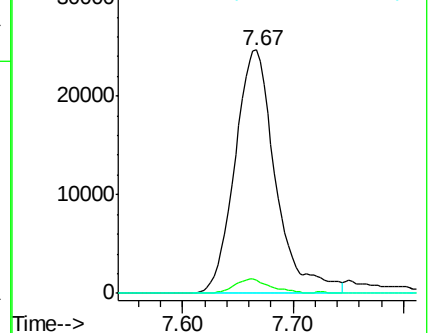
121 0.0 24.6 37.0#



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: 0.240 ug/l

RT: 7.22 min Scan# 1695

Delta R.T. 0.05 min

Lab File: VN053594.D

Acq: 4 Feb 2019 14:10

Tgt Ion: 41 Resp: 841

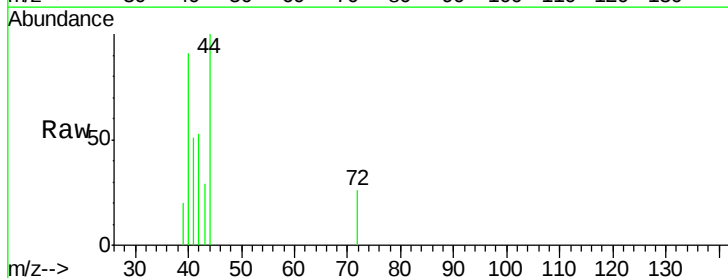
Ion Ratio Lower Upper

41 100

39 16.6 46.8 70.2#

67 0.0 63.0 94.6#

52 0.0 23.8 35.8#

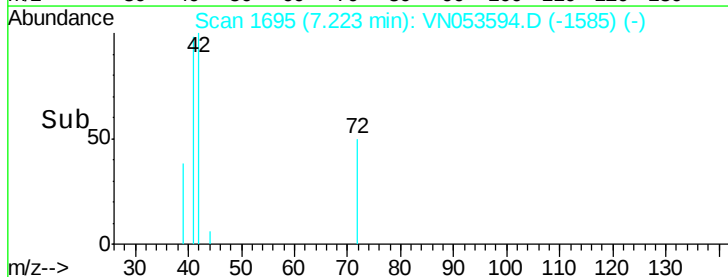
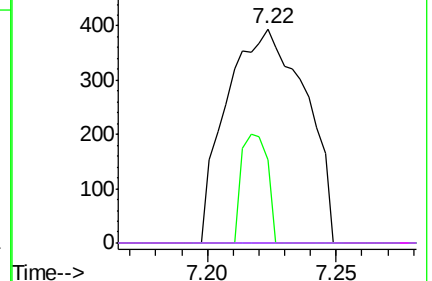


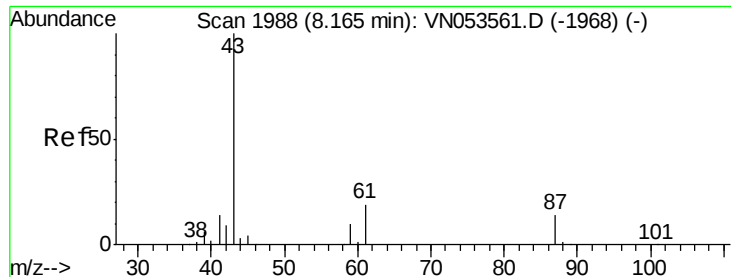
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 0.567 ug/l

RT: 8.19 min Scan# 1996

Delta R.T. 0.03 min

Lab File: VN053594.D

Acq: 4 Feb 2019 14:10

Instrument :

MSVOA\_N

ClientSampleId :

0041-FIELD-DUP

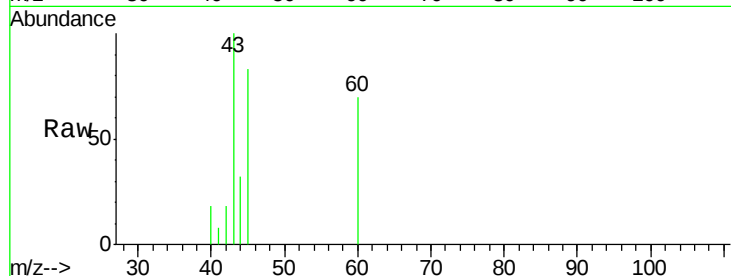
Tot Ion: 43 Resp: 6864

Ion Ratio Lower Upper

43 100

61 0.0 23.9 35.9#

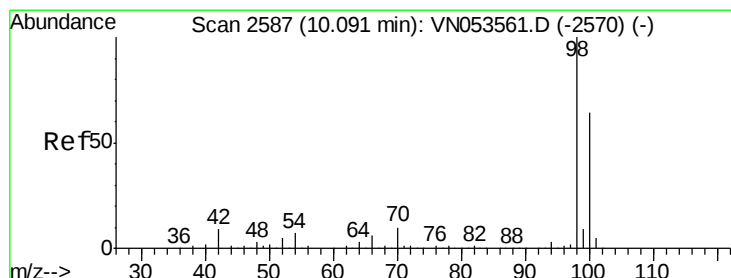
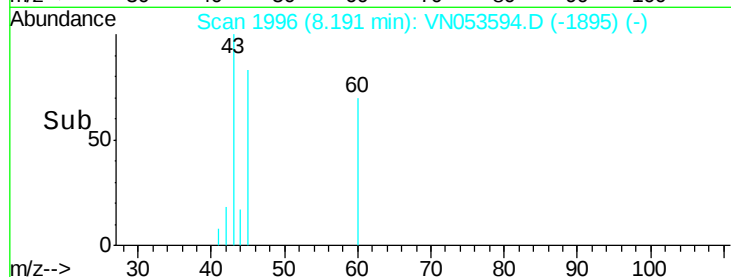
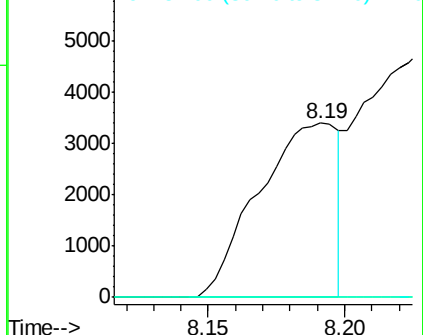
87 0.0 11.0 16.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053594.D

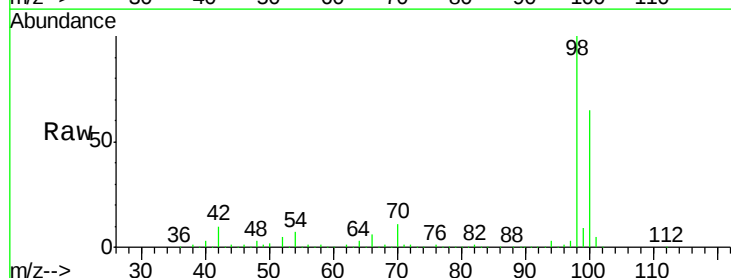
Acq: 4 Feb 2019 14:10

Tgt Ion: 98 Resp: 1499127

Ion Ratio Lower Upper

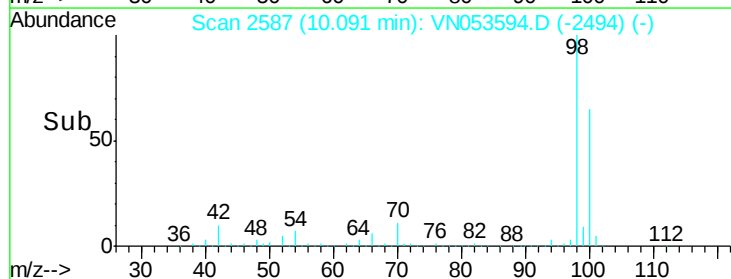
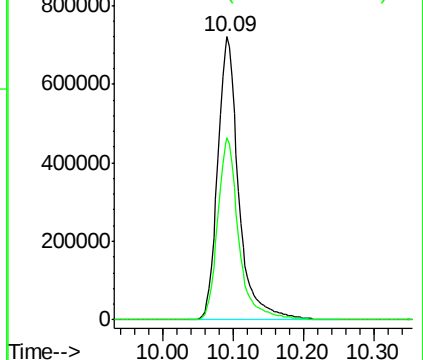
98 100

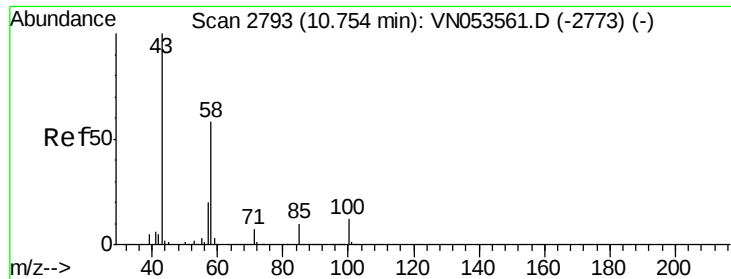
100 64.2 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

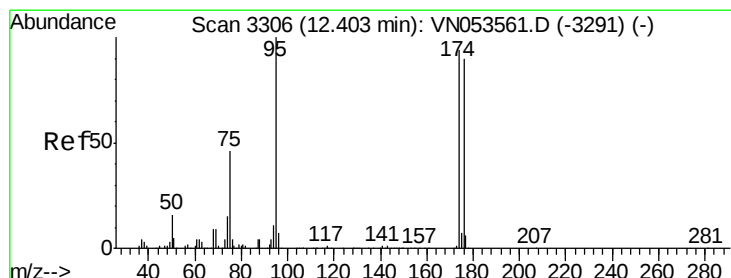
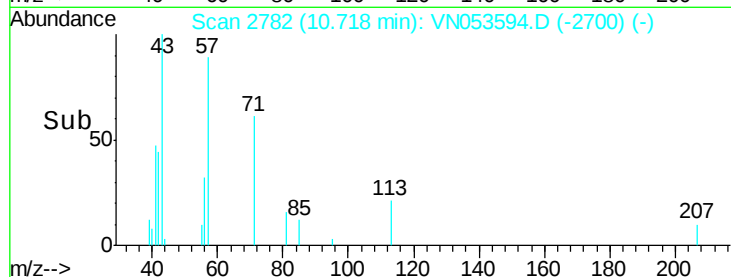
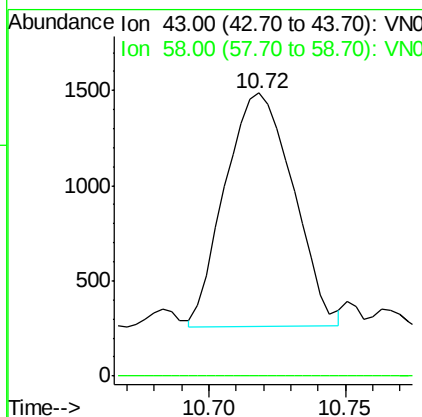
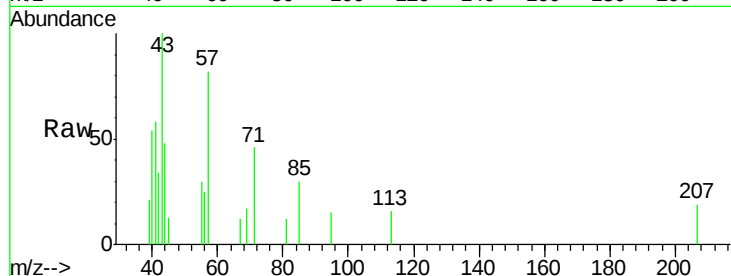




#59  
2-Hexanone  
Concen: 0.527 ug/l  
RT: 10.72 min Scan# 2782  
Delta R.T. -0.04 min  
Lab File: VN053594.D  
Acq: 4 Feb 2019 14:10

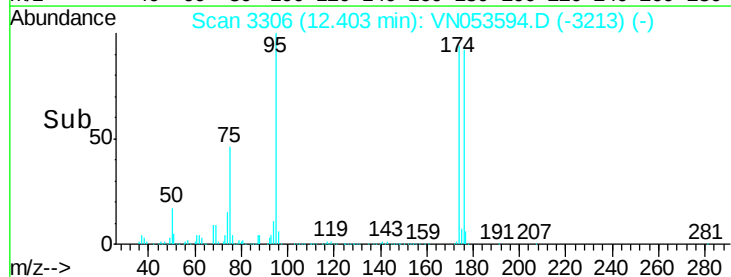
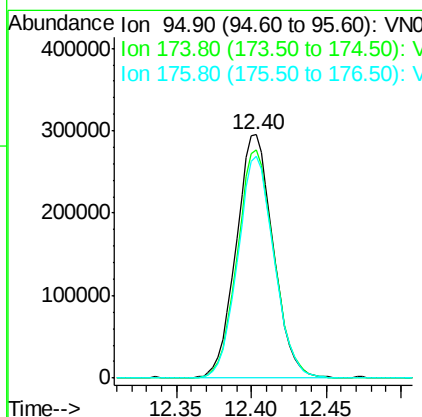
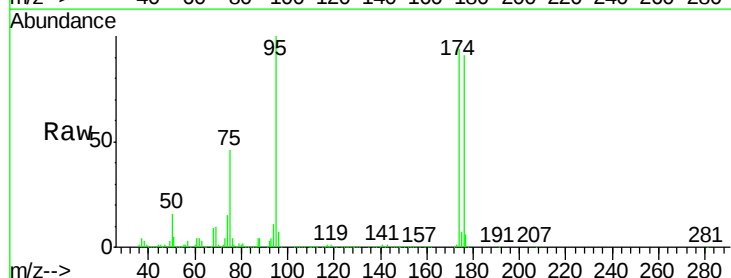
Instrument :  
MSVOA\_N  
ClientSampleId :  
0041-FIELD-DUP

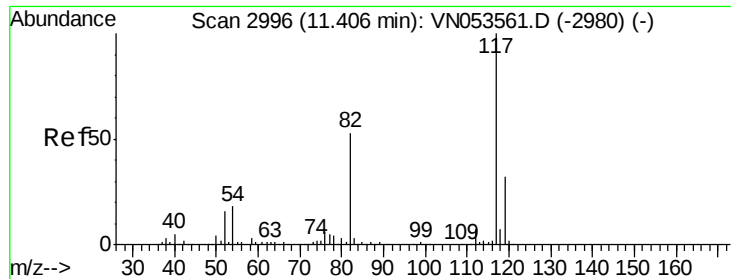
Tot Ion: 43 Resp: 2126  
Ion Ratio Lower Upper  
43 100  
58 0.0 28.6 85.8#



#62  
4-Bromofluorobenzene  
Concen: Below ug/l  
RT: 12.40 min Scan# 3306  
Delta R.T. 0.00 min  
Lab File: VN053594.D  
Acq: 4 Feb 2019 14:10

Tgt Ion: 95 Resp: 504331  
Ion Ratio Lower Upper  
95 100  
174 93.5 0.0 183.2  
176 90.3 0.0 177.4

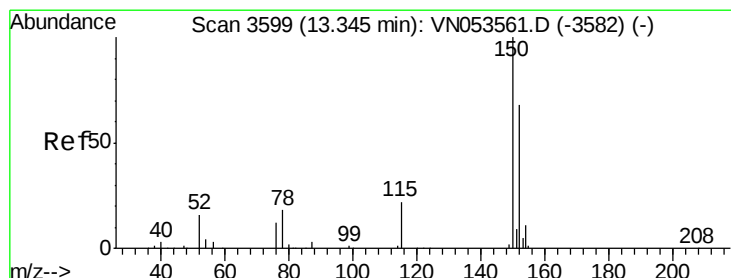
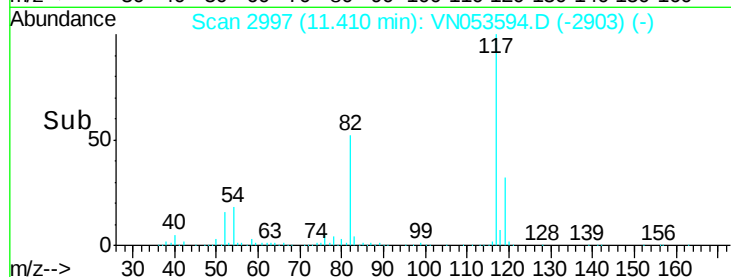
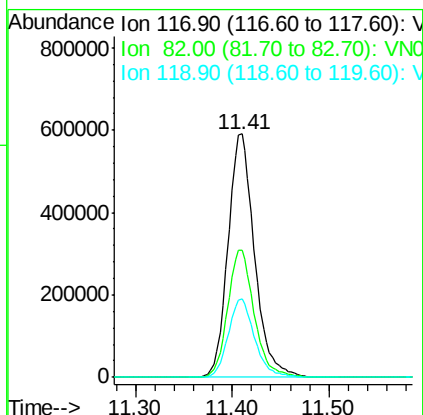
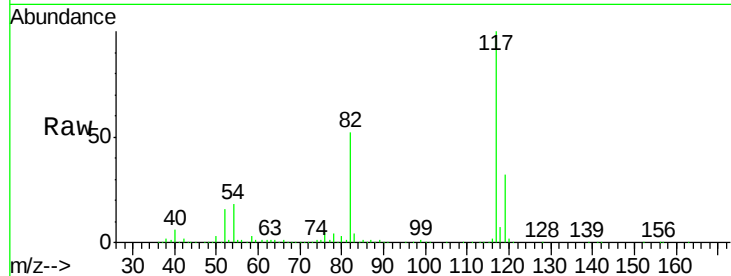




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2997  
Delta R.T. 0.00 min  
Lab File: VN053594.D  
Acq: 4 Feb 2019 14:10

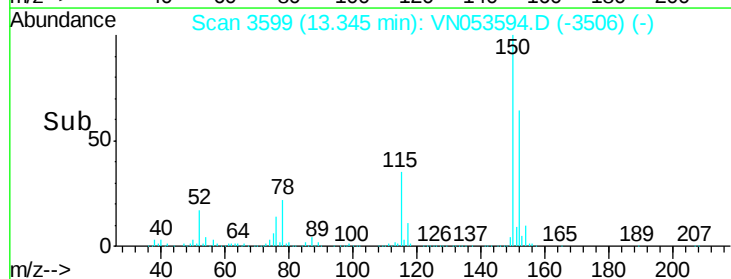
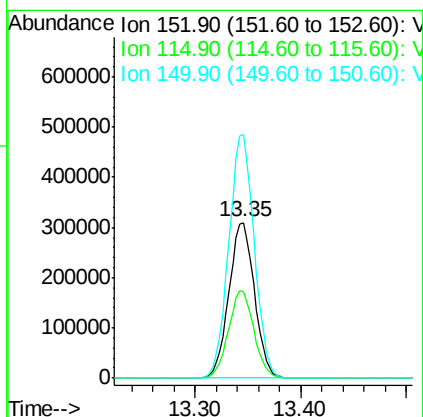
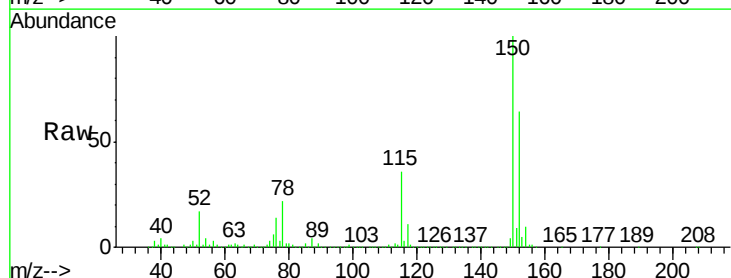
Instrument :  
MSVOA\_N  
ClientSampleId :  
0041-FIELD-DUP

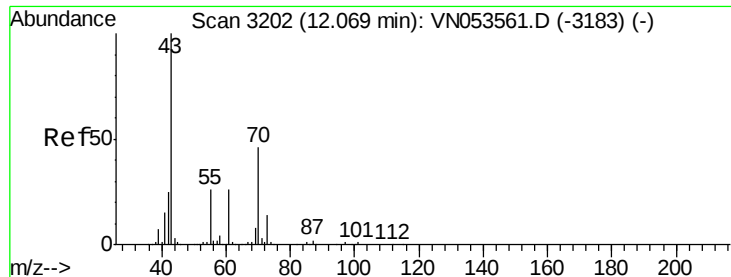
Tot Ion:117 Resp: 1122213  
Ion Ratio Lower Upper  
117 100  
82 52.1 42.9 64.3  
119 32.2 26.0 39.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.35 min Scan# 3599  
Delta R.T. 0.00 min  
Lab File: VN053594.D  
Acq: 4 Feb 2019 14:10

Tgt Ion:152 Resp: 516224  
Ion Ratio Lower Upper  
152 100  
115 55.3 27.8 83.4  
150 156.4 0.0 349.0





#74

N-amvl acetate

Concen: 0.928 ug/l

RT: 12.04 min Scan# 3194

Delta R.T. -0.03 min

Lab File: VN053594.D

Acq: 4 Feb 2019 14:10

Instrument :

MSVOA\_N

ClientSampleId :

0041-FIELD-DUP

Tot Ion: 43 Resp: 8099

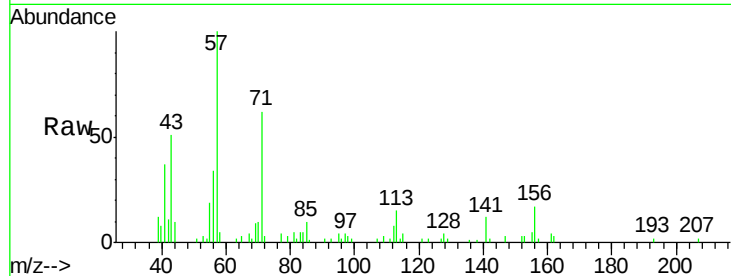
Ion Ratio Lower Upper

43 100

70 18.3 35.4 53.2#

55 16.0 20.9 31.3#

61 0.0 20.5 30.7#

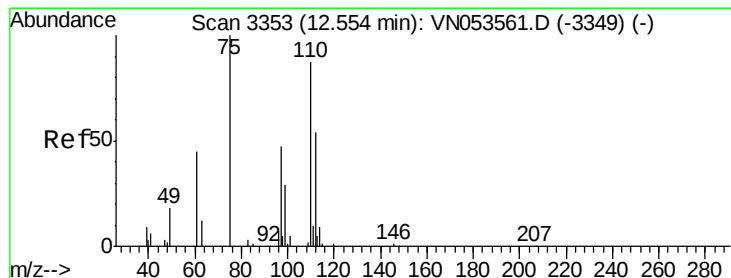
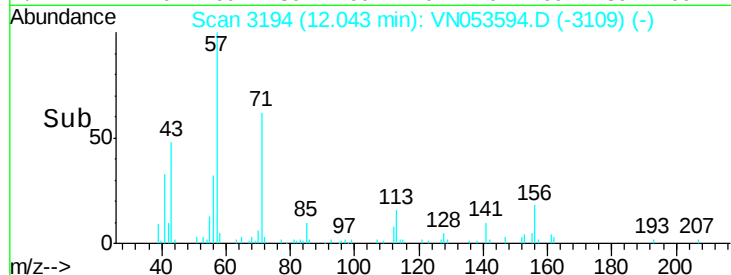
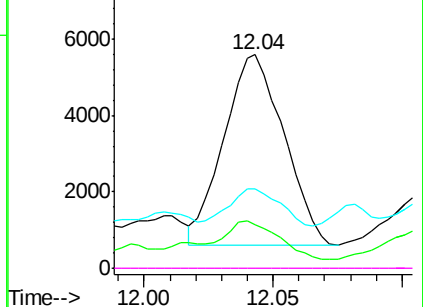


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO



#76

1,2,3-Trichloropropane

Concen: 35.226 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053594.D

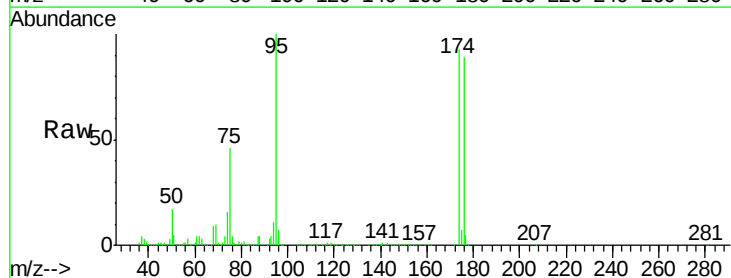
Acq: 4 Feb 2019 14:10

Tgt Ion: 75 Resp: 233570

Ion Ratio Lower Upper

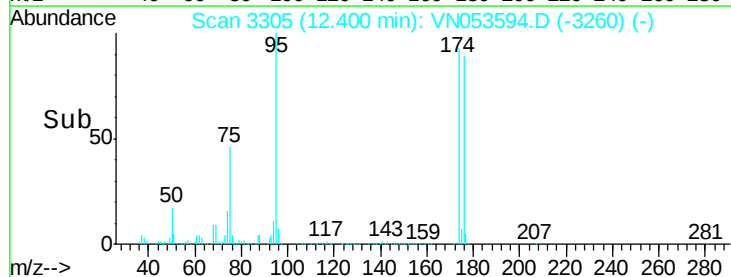
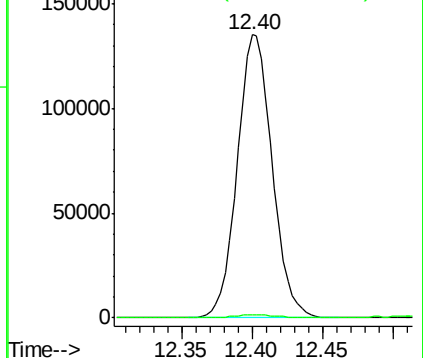
75 100

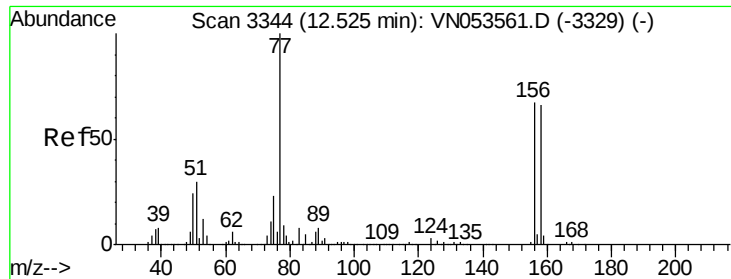
77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#77

Bromobenzene

Concen: 5.615 ug/l

RT: 12.57 min Scan# 3357

Delta R.T. 0.04 min

Lab File: VN053594.D

Acq: 4 Feb 2019 14:10

Instrument :

MSVOA\_N

ClientSampled :

0041-FIELD-DUP

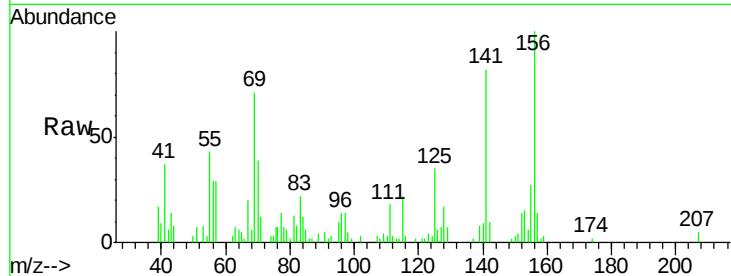
Tot Ion:156 Resp: 54921

Ion Ratio Lower Upper

156 100

77 0.0 87.9 263.8#

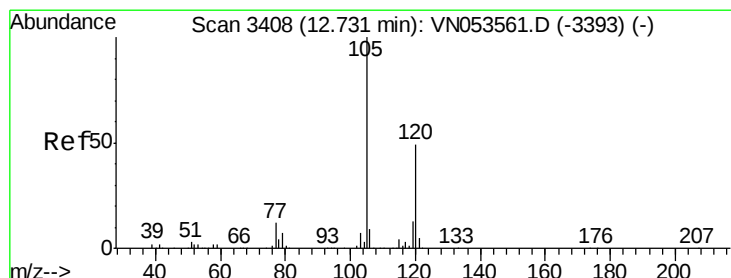
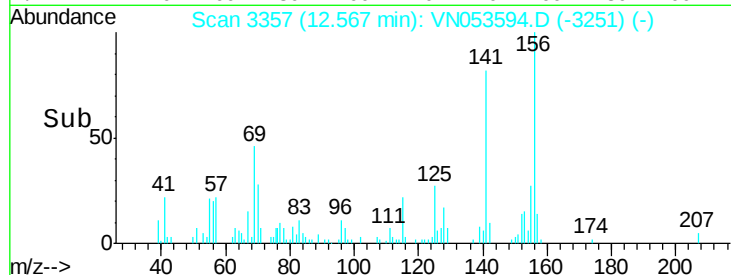
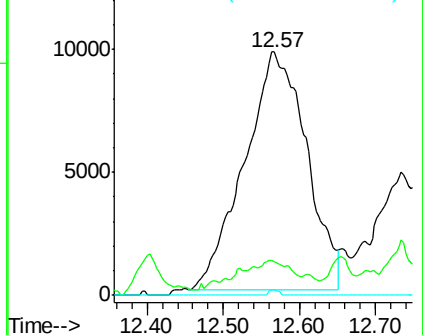
158 0.3 48.8 146.4#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#80

1,3,5-Trimethylbenzene

Concen: 0.376 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053594.D

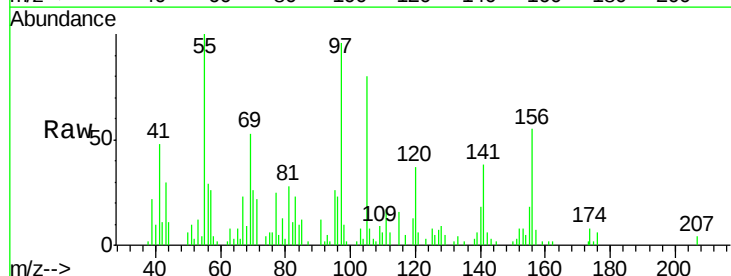
Acq: 4 Feb 2019 14:10

Tgt Ion:105 Resp: 11301

Ion Ratio Lower Upper

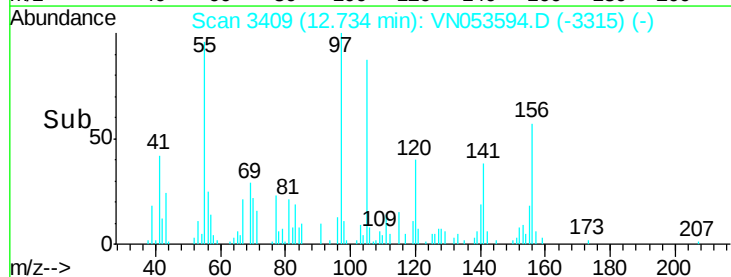
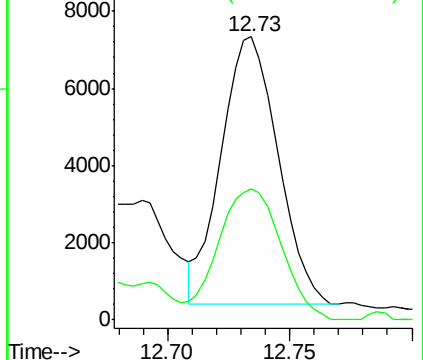
105 100

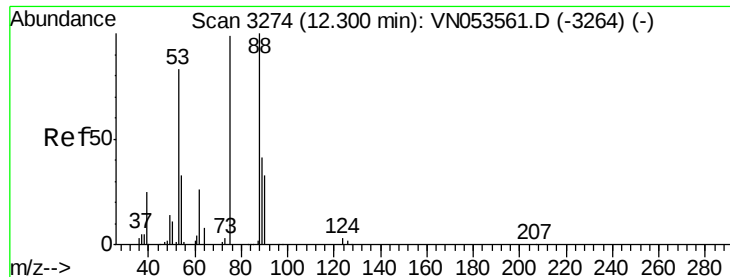
120 54.5 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 99.053 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053594.D

Acq: 4 Feb 2019 14:10

Instrument :

MSVOA\_N

ClientSampleId :

0041-FIELD-DUP

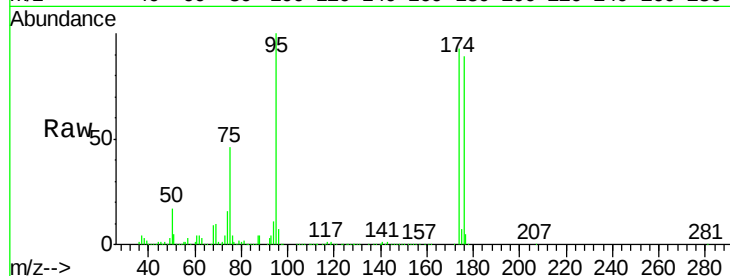
Tot Ion: 75 Resp: 233570

Ion Ratio Lower Upper

75 100

53 0.1 69.8 104.6#

89 0.0 35.6 53.4#



Abundance Ion 74.90 (74.60 to 75.60): VN053594.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN053594.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN053594.D (-3181) (-)

12.40

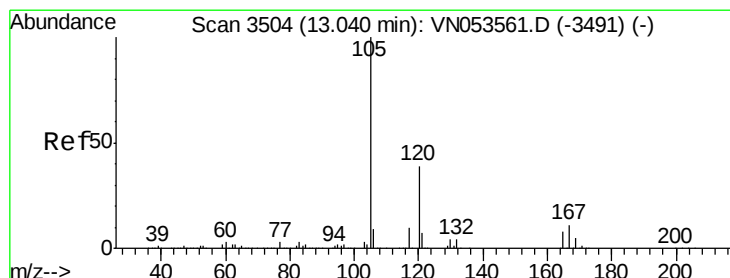
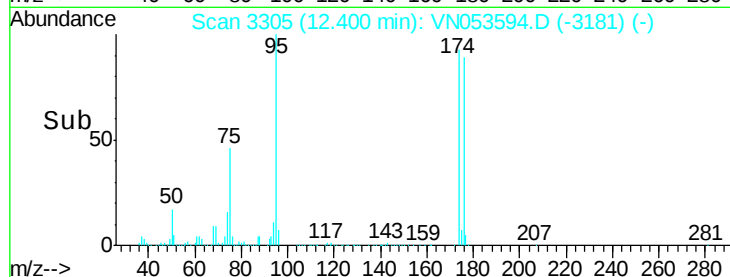
150000

100000

50000

0

Time-->



#84

1,2,4-Trimethylbenzene

Concen: 0.531 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN053594.D

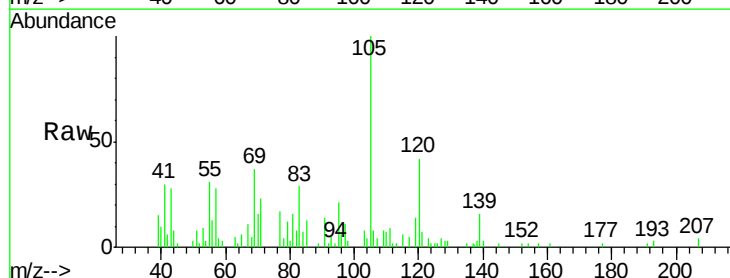
Acq: 4 Feb 2019 14:10

Tgt Ion: 105 Resp: 16268

Ion Ratio Lower Upper

105 100

120 43.5 23.0 69.0



Abundance Ion 105.00 (104.70 to 105.70): VN053594.D (-3411) (-)

Ion 120.00 (119.70 to 120.70): VN053594.D (-3411) (-)

13.04

12000

10000

8000

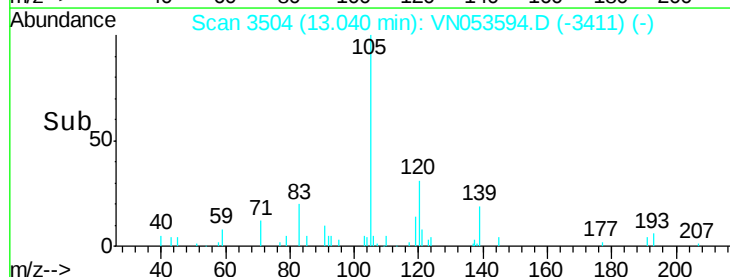
6000

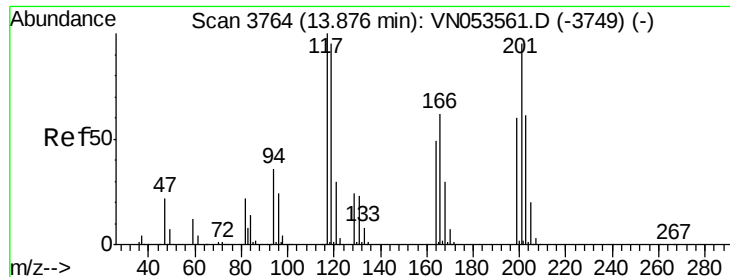
4000

2000

0

Time-->

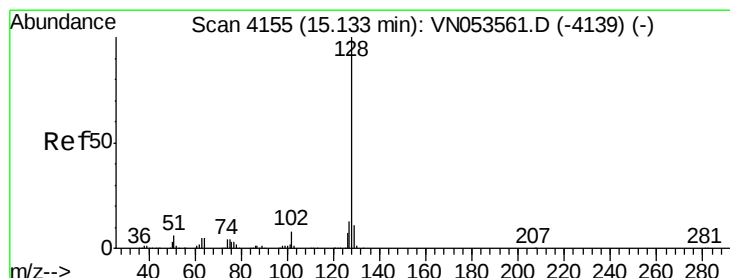
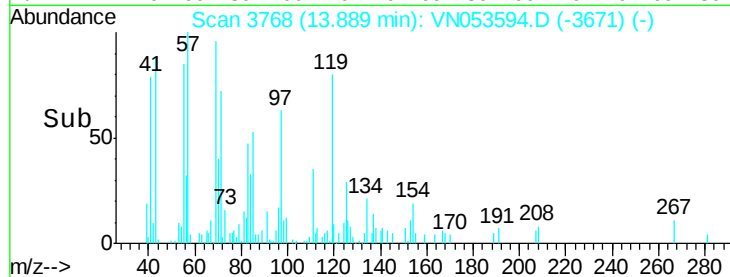
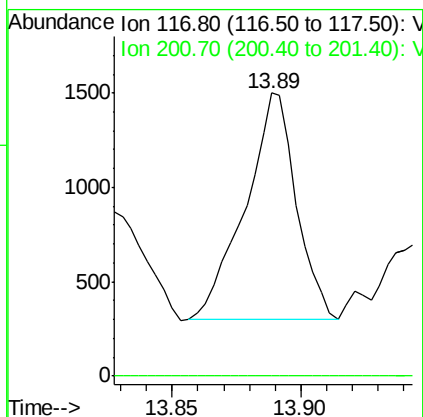
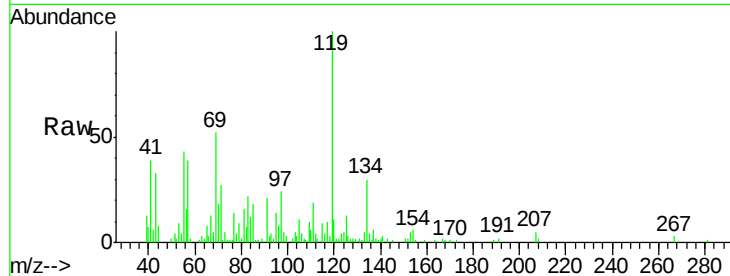




#90  
Hexachloroethane  
Concen: 0.319 ug/l  
RT: 13.89 min Scan# 3768  
Delta R.T. 0.01 min  
Lab File: VN053594.D  
Acq: 4 Feb 2019 14:10

Instrument :  
MSVOA\_N  
ClientSampleId :  
0041-FIELD-DUP

Tot Ion:117 Resp: 1667  
Ion Ratio Lower Upper  
117 100  
201 0.0 46.8 140.4#



#95  
Naphthalene  
Concen: 8.266 ug/l  
RT: 15.13 min Scan# 4155  
Delta R.T. 0.00 min  
Lab File: VN053594.D  
Acq: 4 Feb 2019 14:10

Tgt Ion:128 Resp: 153403  
Ion Ratio Lower Upper  
128 100  
127 13.3 10.3 15.5  
129 11.3 8.6 13.0

