

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN091119\  
 Data File : VN057915.D  
 Acq On : 11 Sep 2019 11:23  
 Operator : JC/SP  
 Sample : K4643-32  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 58 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 T11-C2-(0)

Quant Time: Sep 12 01:32:01 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091019W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 10 03:02:13 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.65  | 168  | 280229   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 482668   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 442606   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 227160   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.01  | 65   | 338034   | 59.56 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 119.12% |          |
| 35) Dibromofluoromethane    | 7.58  | 113  | 222418   | 49.93 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.86%  |          |
| 50) Toluene-d8              | 10.09 | 98   | 908321   | 52.52 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.04% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 298920   | 45.35 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 90.70%  |          |

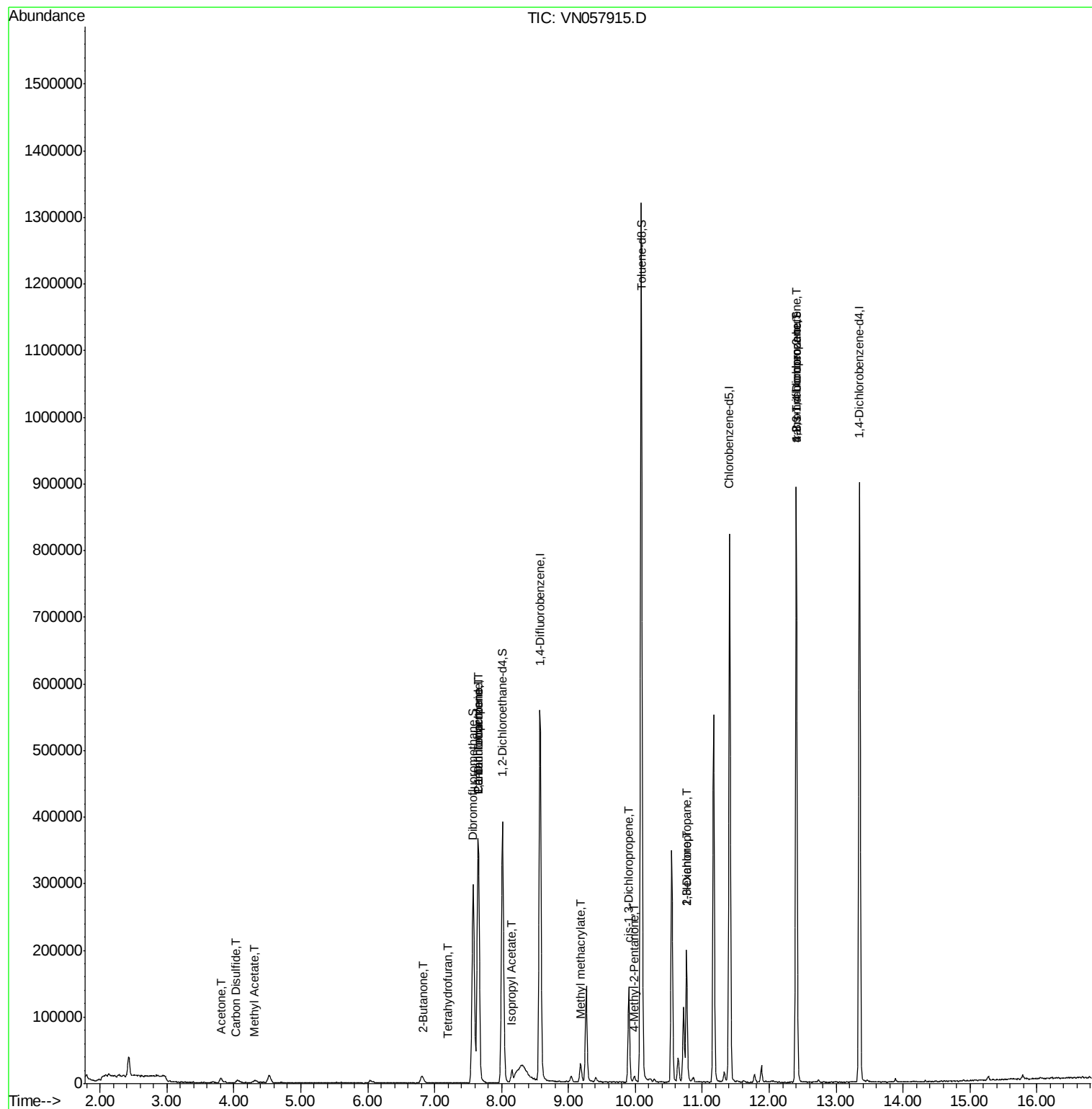
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 2.55  | 94   | 167      | Below Cal | #      | 2      |
| 16) Acetone                    | 3.80  | 43   | 13381    | 7.192     | ug/l   | 97     |
| 17) Carbon Disulfide           | 4.03  | 76   | 195      | 0.200     | ug/l # | 75     |
| 18) Methyl Acetate             | 4.30  | 43   | 3197     | 0.644     | ug/l # | 71     |
| 20) Methylene Chloride         | 4.52  | 84   | 4204     | Below Cal | #      | 93     |
| 25) 2-Butanone                 | 6.83  | 43   | 2400     | 0.891     | ug/l # | 85     |
| 29) Tetrahydrofuran            | 7.20  | 42   | 814      | 0.491     | ug/l # | 34     |
| 31) Cyclohexane                | 7.64  | 56   | 7610     | Below Cal | #      | 22     |
| 36) 1,1-Dichloropropene        | 7.64  | 75   | 24445    | 4.367     | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 7.65  | 117  | 29706    | 5.813     | ug/l # | 15     |
| 43) Isopropyl Acetate          | 8.16  | 43   | 21584    | 2.219     | ug/l   | 93     |
| 48) Methyl methacrylate        | 9.18  | 41   | 4127     | 0.837     | ug/l # | 36     |
| 51) 4-Methyl-2-Pentanone       | 9.98  | 43   | 4679     | 0.813     | ug/l # | 74     |
| 54) cis-1,3-Dichloropropene    | 9.90  | 75   | 24488    | 3.559     | ug/l # | 72     |
| 57) 1,3-Dichloropropane        | 10.77 | 76   | 2309     | 0.298     | ug/l # | 43     |
| 59) 2-Hexanone                 | 10.76 | 43   | 28947    | 6.710     | ug/l # | 58     |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 165743   | 32.254    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 165743   | 113.501   | ug/l # | 6      |
| 95) Naphthalene                | 15.14 | 128  | 1312     | Below Cal | #      | 72     |

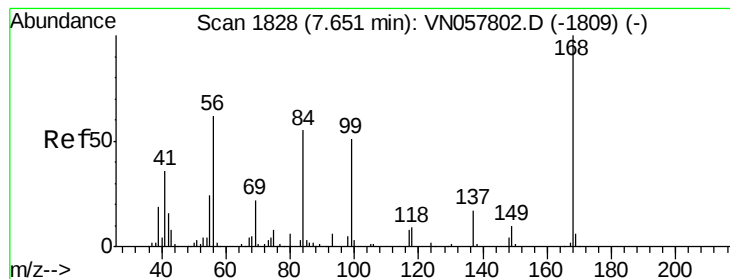
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Sep 10 03:02:13 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN057915.D

Acq: 11 Sep 2019 11:23

Instrument :

MSVOA\_N

ClientSampleId :

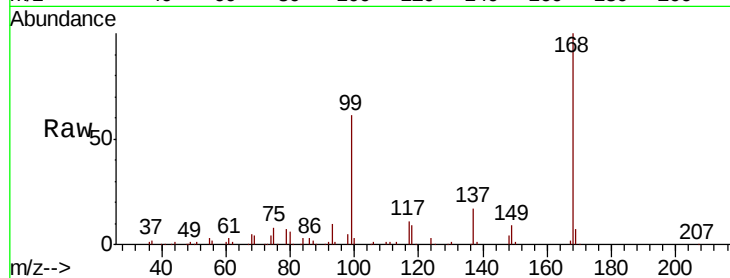
T11-C2-(0)

Tgt Ion:168 Resp: 280229

Ion Ratio Lower Upper

168 100

99 60.9 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

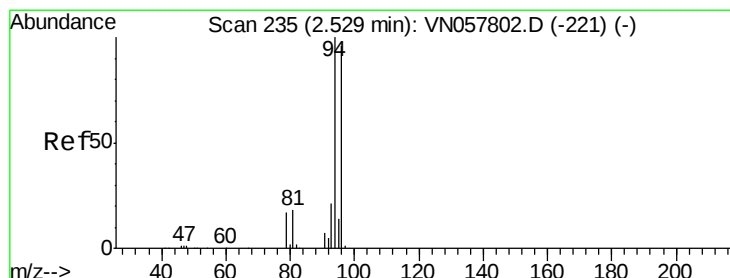
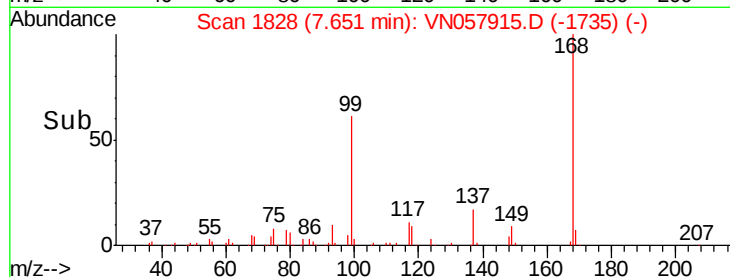
7.65

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 243

Delta R.T. 0.03 min

Lab File: VN057915.D

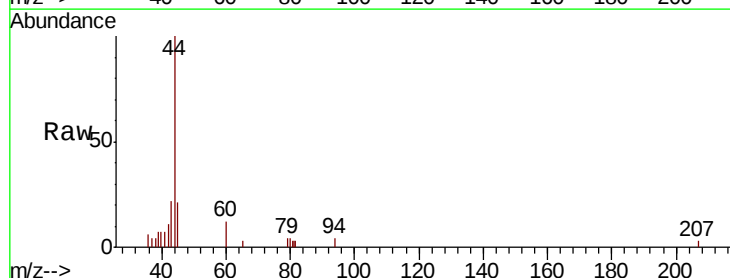
Acq: 11 Sep 2019 11:23

Tgt Ion: 94 Resp: 167

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.55

200

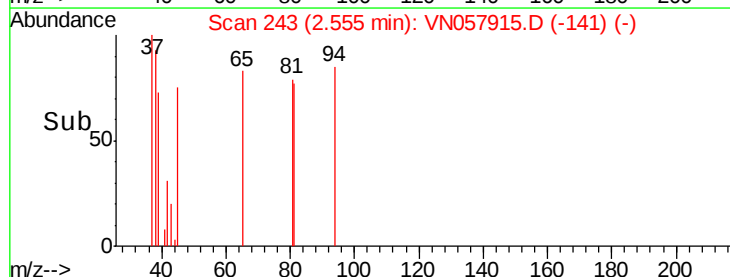
150

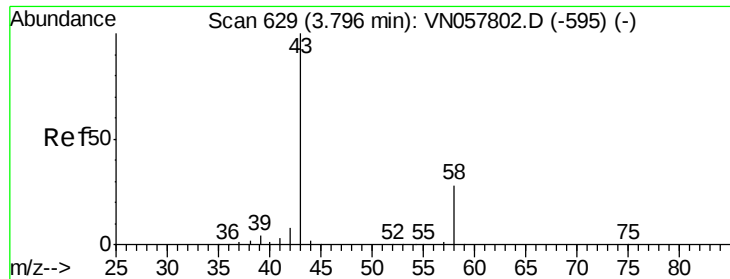
100

50

0

Time-->





#16

Acetone

Concen: 7.192 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.00 min

Lab File: VN057915.D

Acq: 11 Sep 2019 11:23

Instrument :

MSVOA\_N

ClientSampleId :

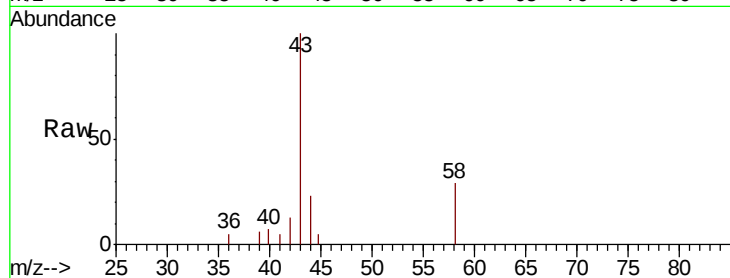
T11-C2-(0)

Tgt Ion: 43 Resp: 13381

Ion Ratio Lower Upper

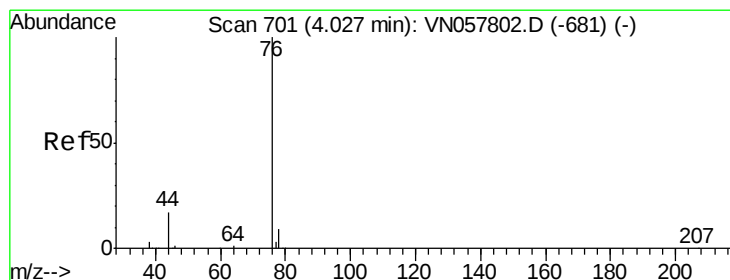
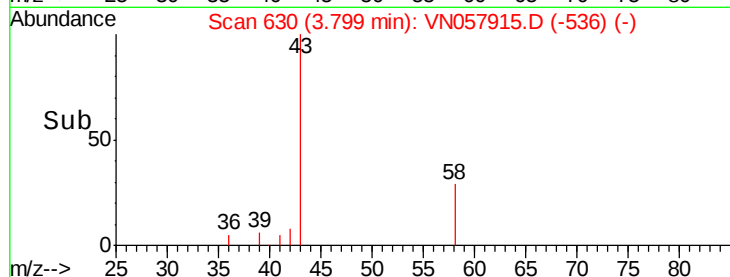
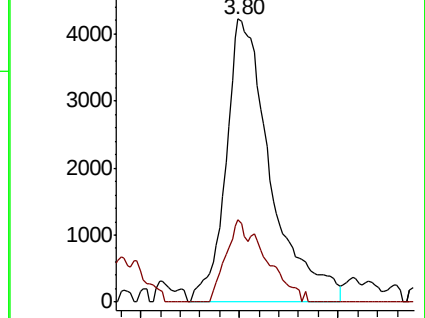
43 100

58 29.1 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-595) (-)

Ion 58.00 (57.70 to 58.70): VN057802.D (-595) (-)



#17

Carbon Disulfide

Concen: 0.200 ug/l

RT: 4.03 min Scan# 701

Delta R.T. 0.00 min

Lab File: VN057915.D

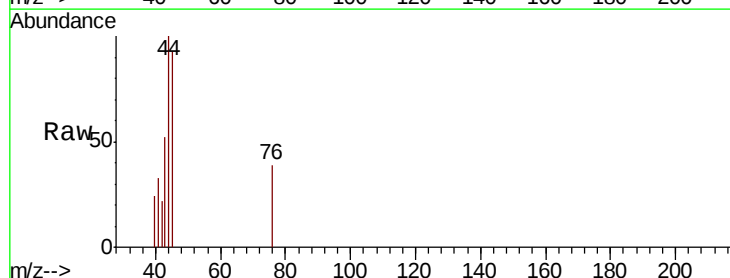
Acq: 11 Sep 2019 11:23

Tgt Ion: 76 Resp: 195

Ion Ratio Lower Upper

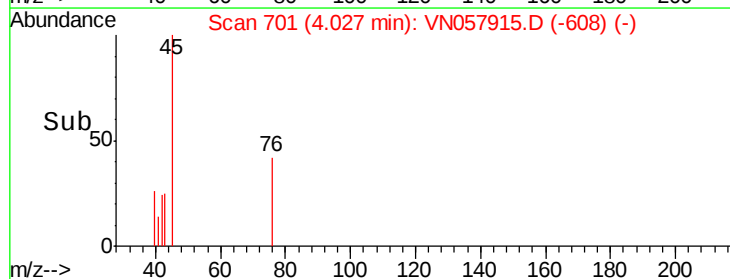
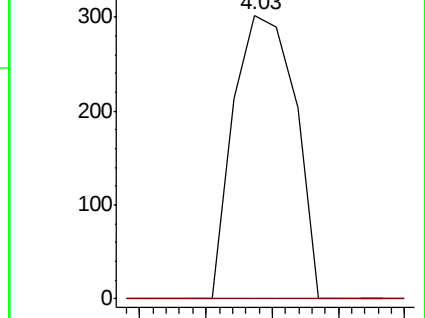
76 100

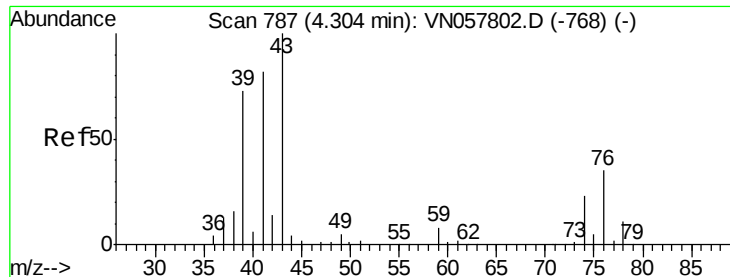
78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VN057802.D (-681) (-)

Ion 77.90 (77.60 to 78.60): VN057802.D (-681) (-)

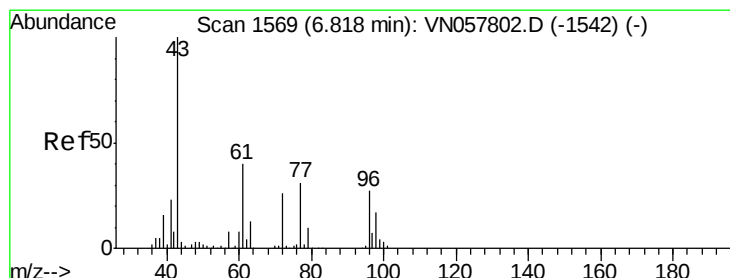
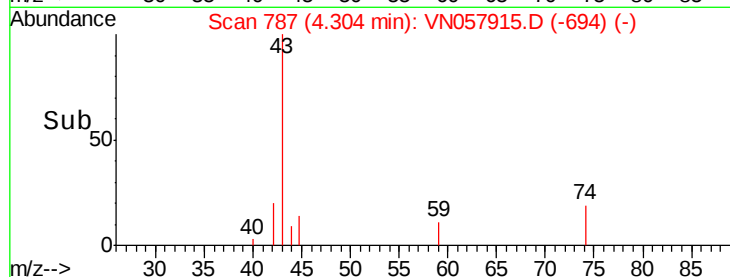
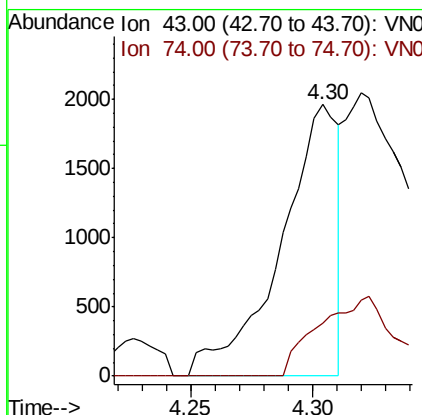
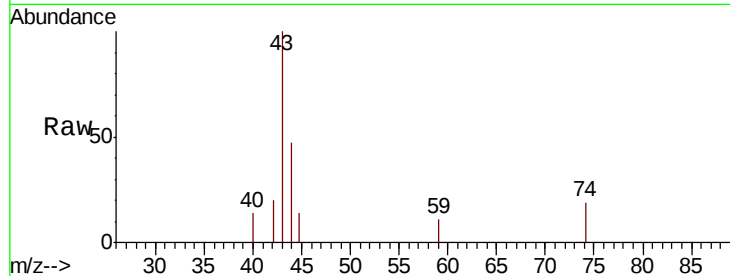




#18  
Methyl Acetate  
Concen: 0.644 ug/l  
RT: 4.30 min Scan# 787  
Delta R.T. 0.00 min  
Lab File: VN057915.D  
Acq: 11 Sep 2019 11:23

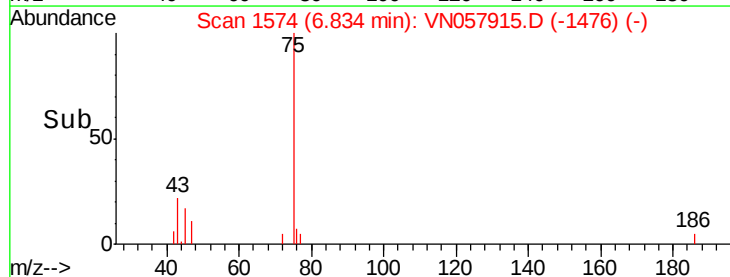
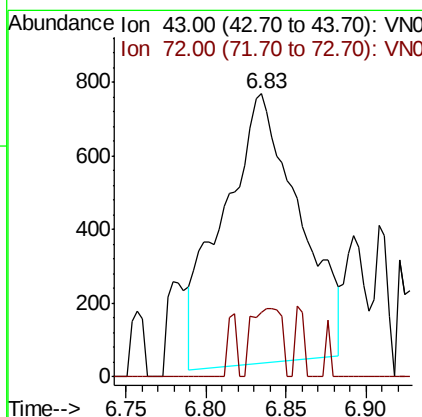
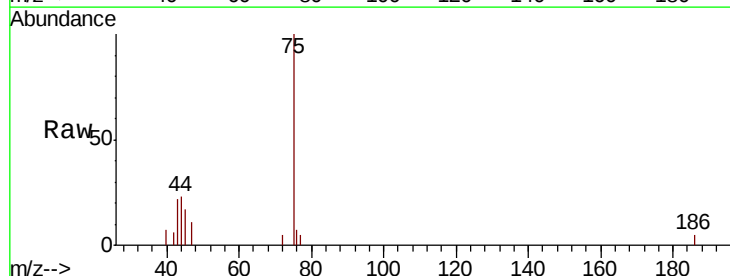
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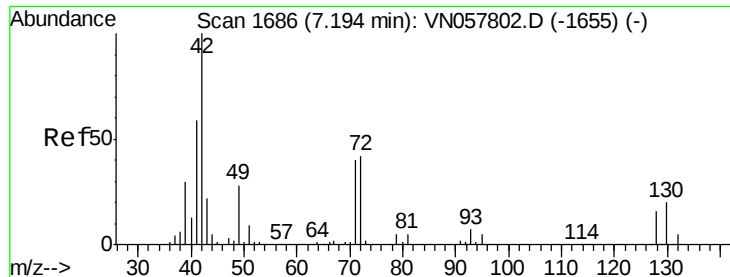
Tgt Ion: 43 Resp: 3197  
Ion Ratio Lower Upper  
43 100  
74 36.1 17.9 26.9#



#25  
2-Butanone  
Concen: 0.891 ug/l  
RT: 6.83 min Scan# 1574  
Delta R.T. 0.02 min  
Lab File: VN057915.D  
Acq: 11 Sep 2019 11:23

Tgt Ion: 43 Resp: 2400  
Ion Ratio Lower Upper  
43 100  
72 33.3 20.6 30.8#





#29

Tetrahydrofuran

Concen: 0.491 ug/l

RT: 7.20 min Scan# 1689

Delta R.T. 0.01 min

Lab File: VN057915.D

Acq: 11 Sep 2019 11:23

Instrument :

MSVOA\_N

ClientSampleId :

T11-C2-(0)

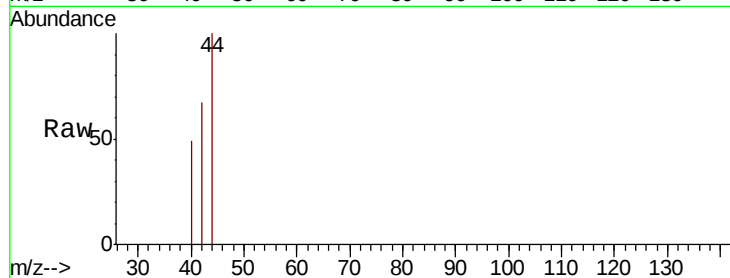
Tgt Ion: 42 Resp: 814

Ion Ratio Lower Upper

42 100

72 0.0 33.7 50.5#

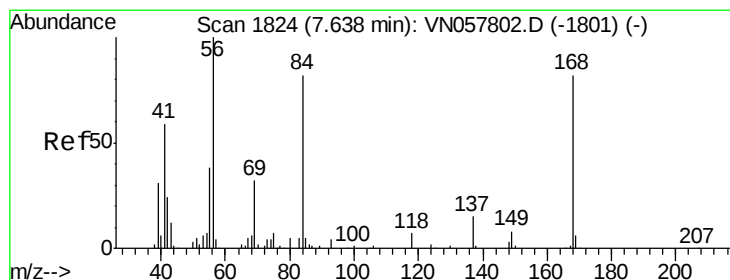
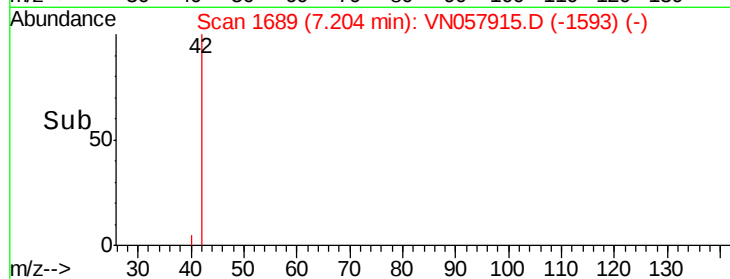
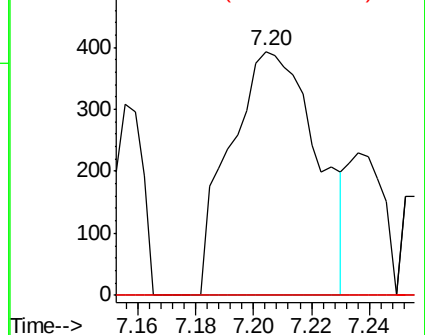
71 0.0 31.9 47.9#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: Below Cal

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN057915.D

Acq: 11 Sep 2019 11:23

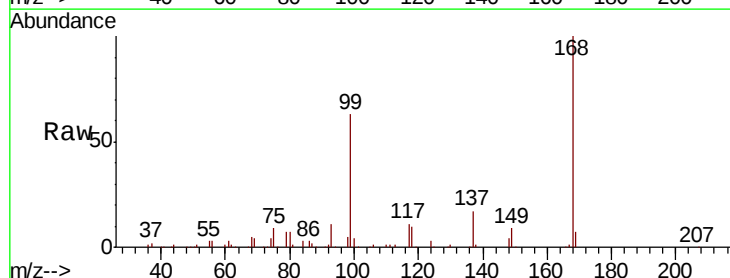
Tgt Ion: 56 Resp: 7610

Ion Ratio Lower Upper

56 100

69 136.1 25.9 38.9#

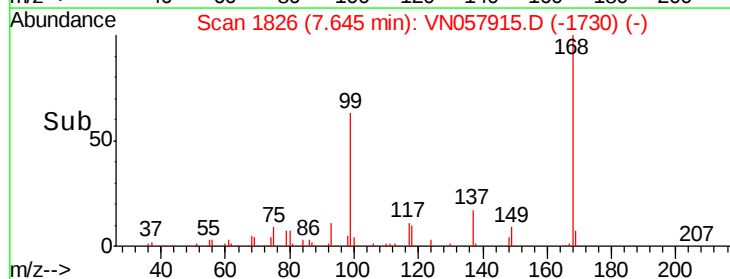
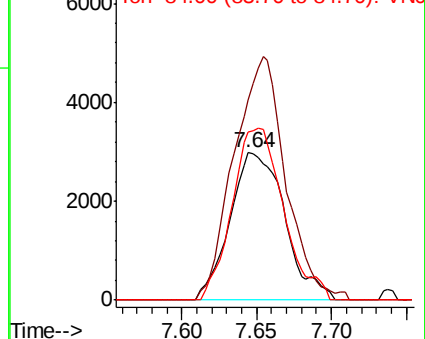
84 114.4 65.6 98.4#

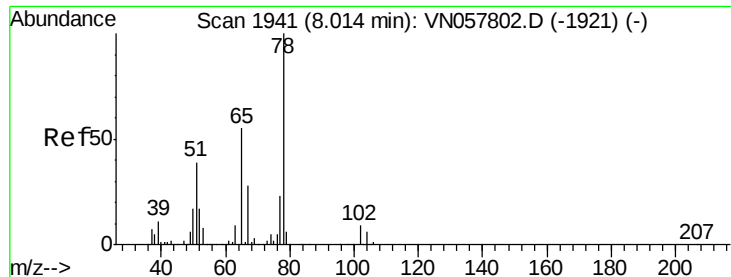


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

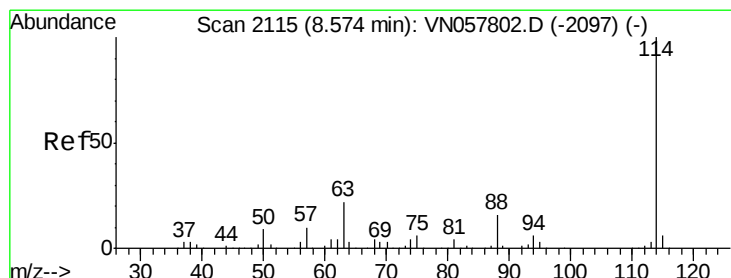
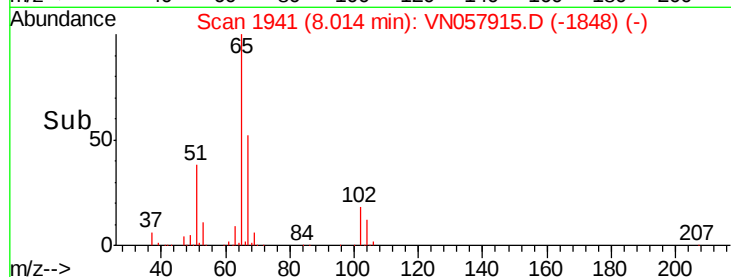
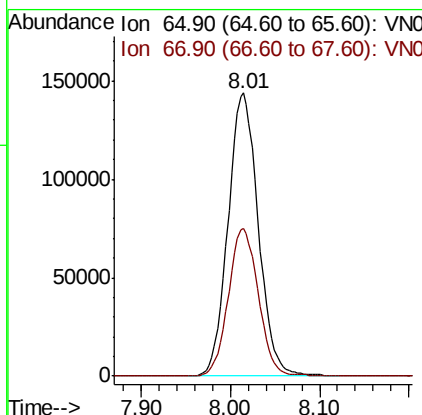
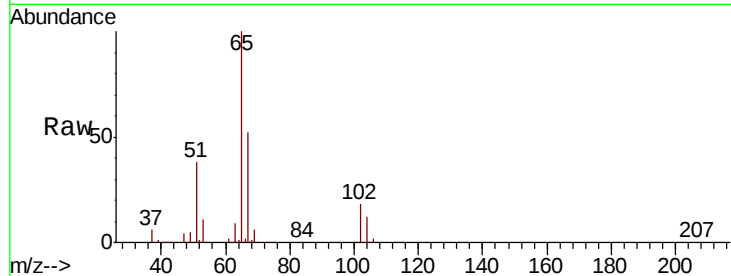




#33  
 1,2-Dichloroethane-d4  
 Concen: 59.557 ug/l  
 RT: 8.01 min Scan# 1941  
 Delta R.T. 0.00 min  
 Lab File: VN057915.D  
 Acq: 11 Sep 2019 11:23

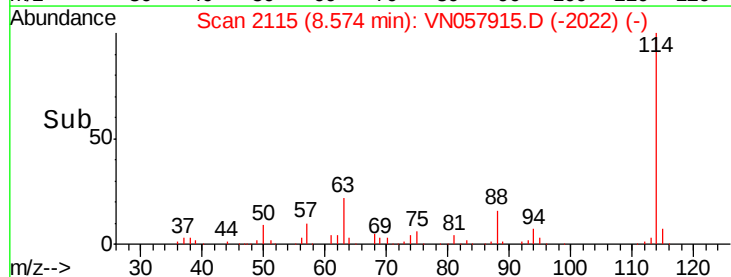
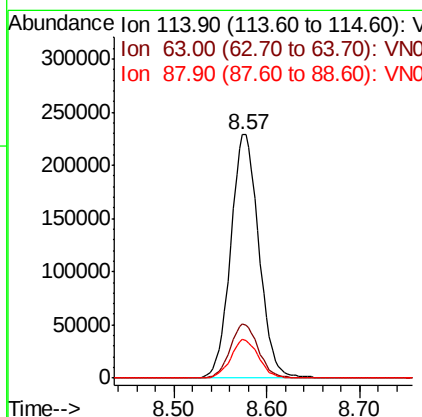
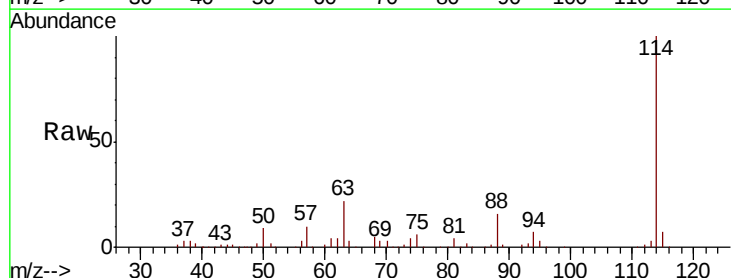
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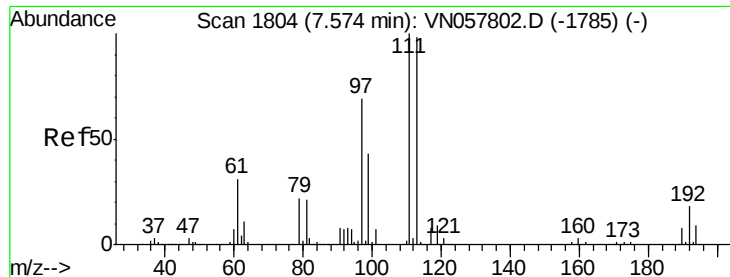
Tgt Ion: 65 Resp: 338034  
 Ion Ratio Lower Upper  
 65 100  
 67 51.9 0.0 104.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.57 min Scan# 2115  
 Delta R.T. 0.00 min  
 Lab File: VN057915.D  
 Acq: 11 Sep 2019 11:23

Tgt Ion: 114 Resp: 482668  
 Ion Ratio Lower Upper  
 114 100  
 63 22.2 0.0 44.0  
 88 15.7 0.0 31.4

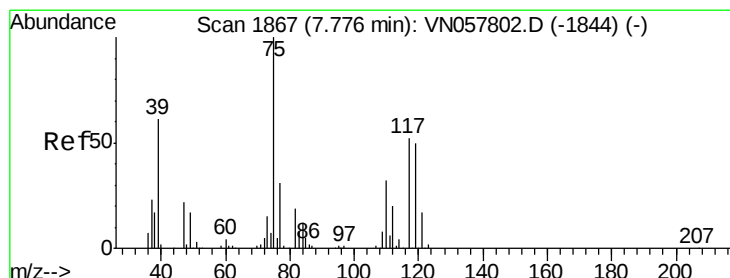
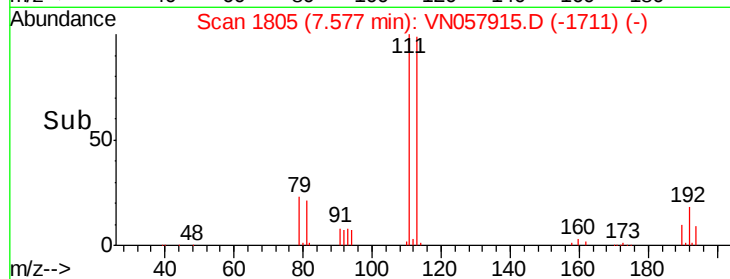
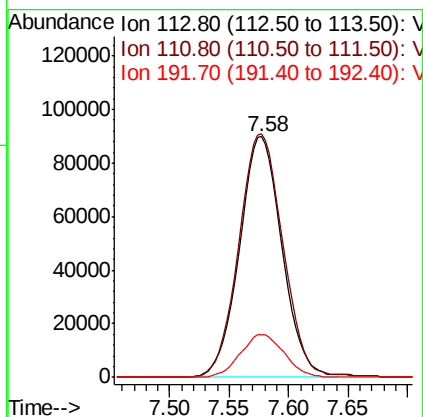
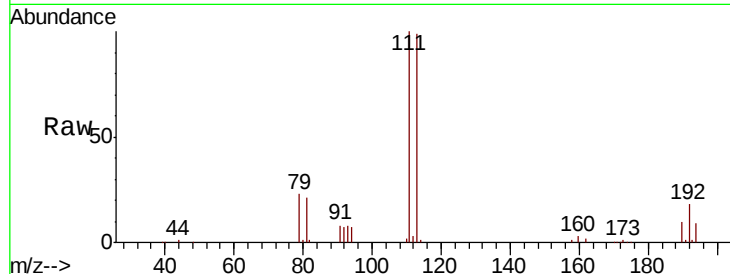




#35  
 Dibromofluoromethane  
 Concen: 49.927 ug/l  
 RT: 7.58 min Scan# 1805  
 Delta R.T. 0.00 min  
 Lab File: VN057915.D  
 Acq: 11 Sep 2019 11:23

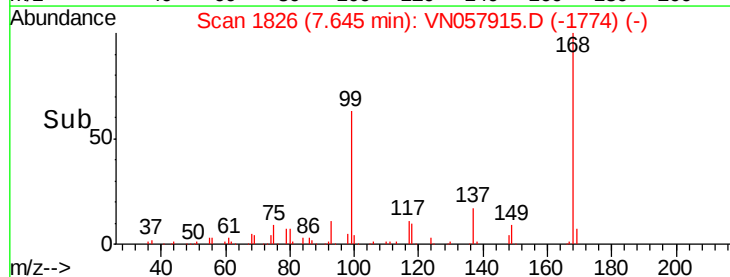
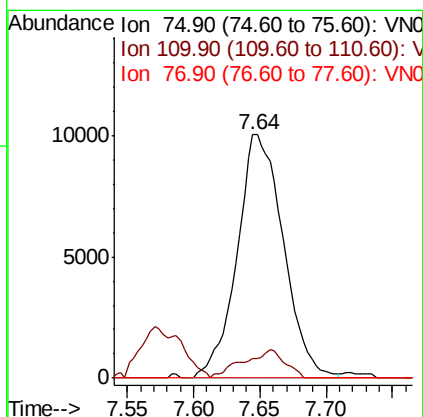
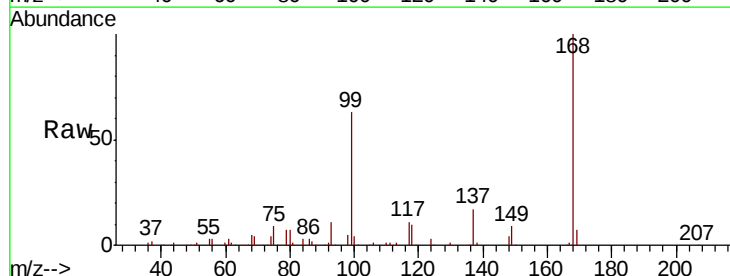
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 T11-C2-(0)

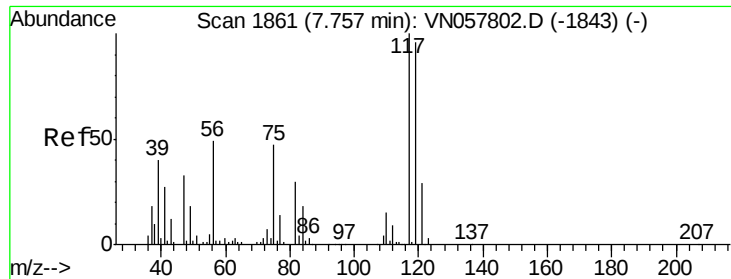
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 105.2 | 81.3  | 121.9 |
| 192     | 18.4  | 14.6  | 22.0  |



#36  
 1,1-Dichloropropene  
 Concen: 4.367 ug/l  
 RT: 7.64 min Scan# 1826  
 Delta R.T. -0.13 min  
 Lab File: VN057915.D  
 Acq: 11 Sep 2019 11:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 10.5  | 16.3  | 48.9# |
| 77      | 0.0   | 25.0  | 37.4# |

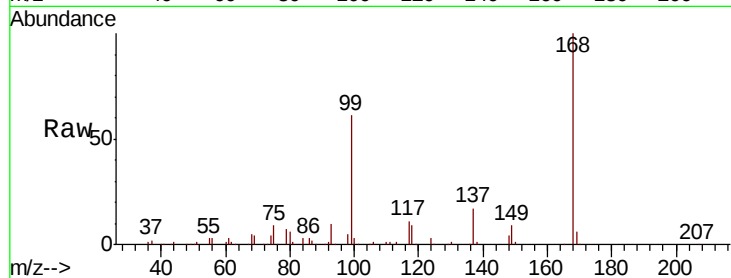




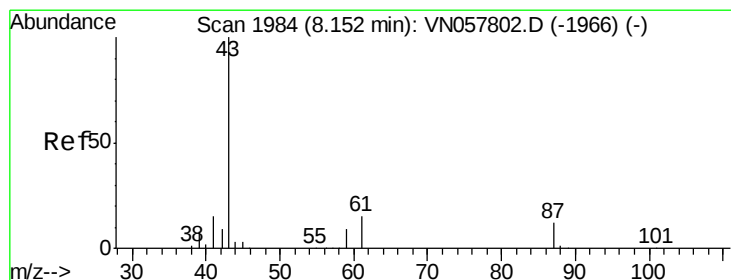
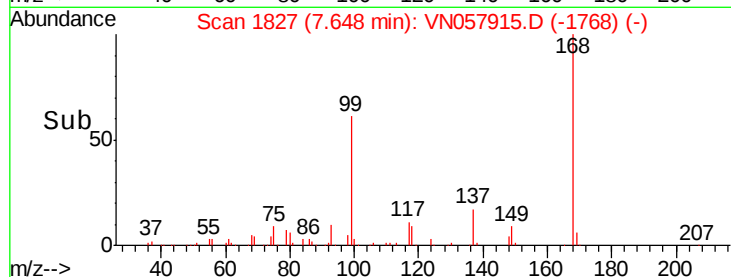
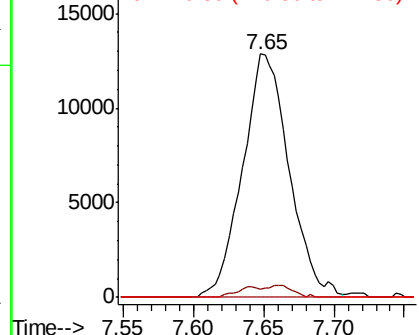
#38  
Carbon Tetrachloride  
Concen: 5.813 ug/l  
RT: 7.65 min Scan# 1827  
Delta R.T. -0.11 min  
Lab File: VN057915.D  
Acq: 11 Sep 2019 11:23

Instrument :  
MSVOA\_N  
ClientSampleId :  
T11-C2-(0)

Tgt Ion: 117 Resp: 29706  
Ion Ratio Lower Upper  
117 100  
119 3.6 76.9 115.3#  
121 0.0 23.4 35.2#

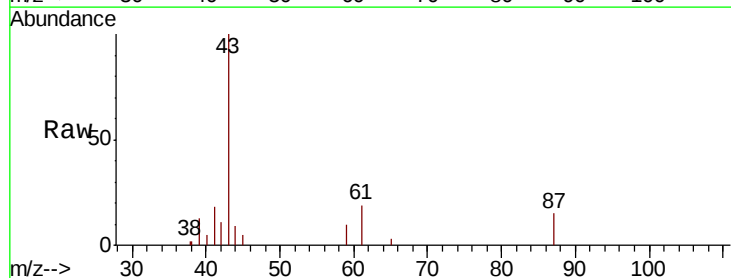


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

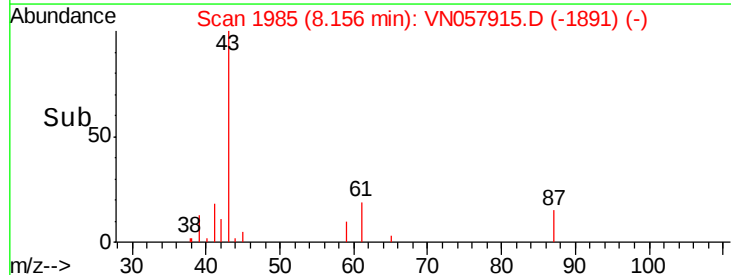
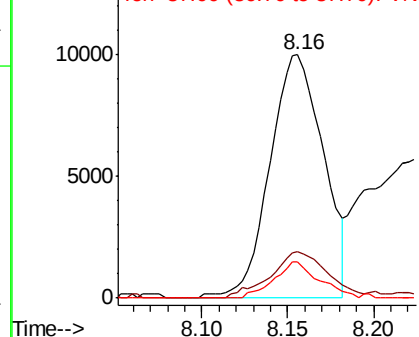


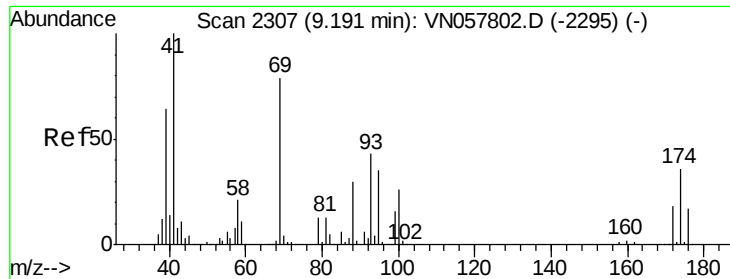
#43  
Isopropyl Acetate  
Concen: 2.219 ug/l  
RT: 8.16 min Scan# 1985  
Delta R.T. 0.00 min  
Lab File: VN057915.D  
Acq: 11 Sep 2019 11:23

Tgt Ion: 43 Resp: 21584  
Ion Ratio Lower Upper  
43 100  
61 20.1 20.1 30.1  
87 12.5 9.5 14.3



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

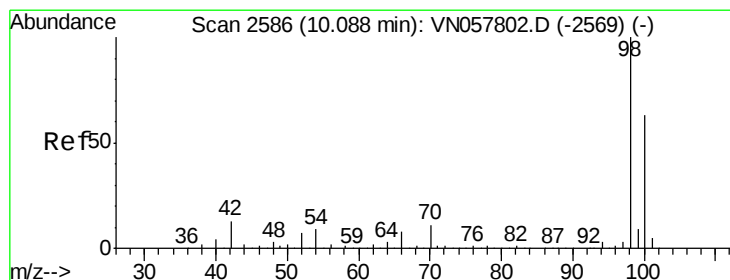
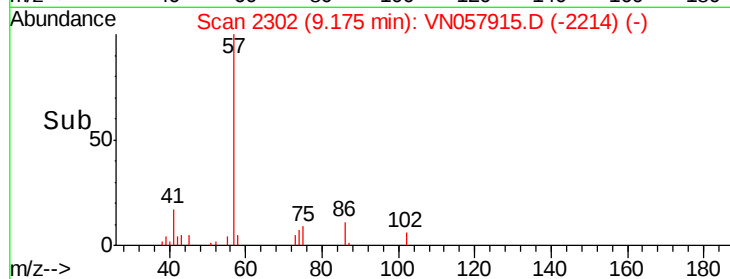
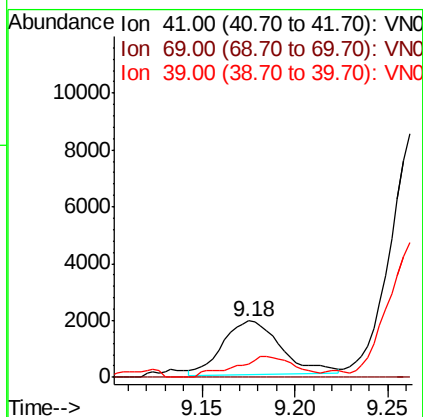
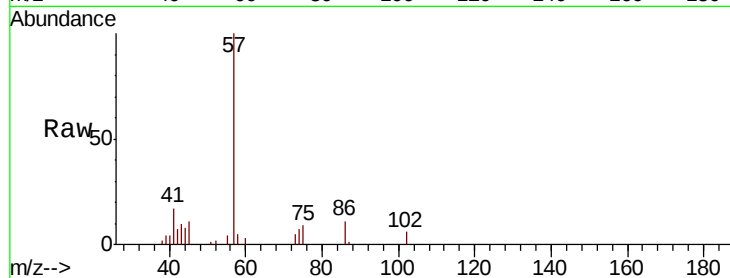




#48  
Methyl methacrylate  
Concen: 0.837 ug/l  
RT: 9.18 min Scan# 2302  
Delta R.T. -0.02 min  
Lab File: VN057915.D  
Acq: 11 Sep 2019 11:23

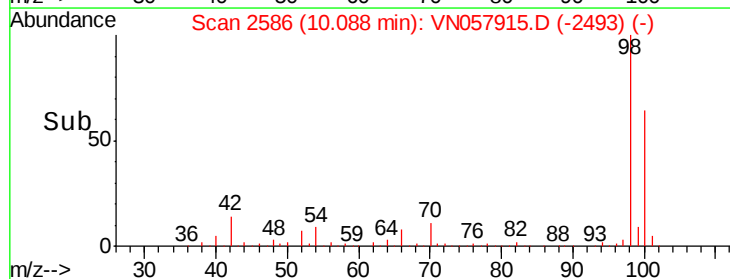
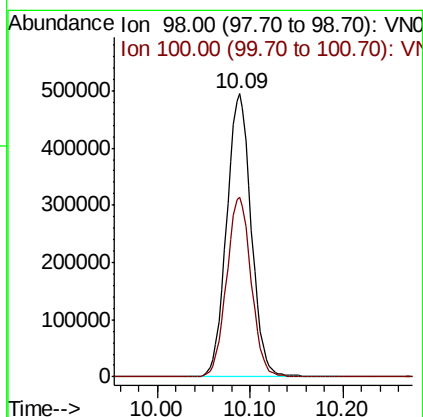
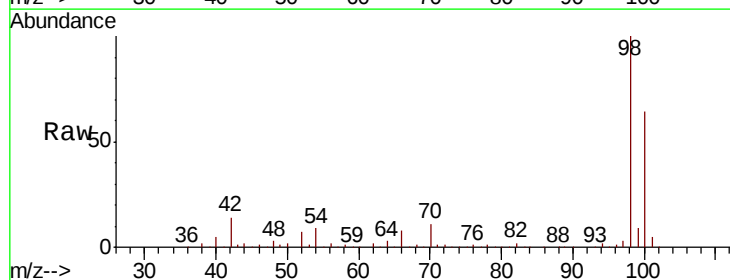
Instrument :  
MSVOA\_N  
ClientSampled :  
T11-C2-(0)

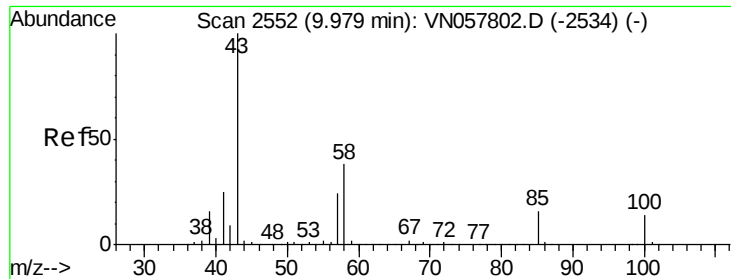
Tgt Ion: 41 Resp: 4127  
Ion Ratio Lower Upper  
41 100  
69 0.0 62.7 94.1#  
39 40.0 52.7 79.1#



#50  
Toluene-d8  
Concen: 52.516 ug/l  
RT: 10.09 min Scan# 2586  
Delta R.T. 0.00 min  
Lab File: VN057915.D  
Acq: 11 Sep 2019 11:23

Tgt Ion: 98 Resp: 908321  
Ion Ratio Lower Upper  
98 100  
100 63.7 50.3 75.5

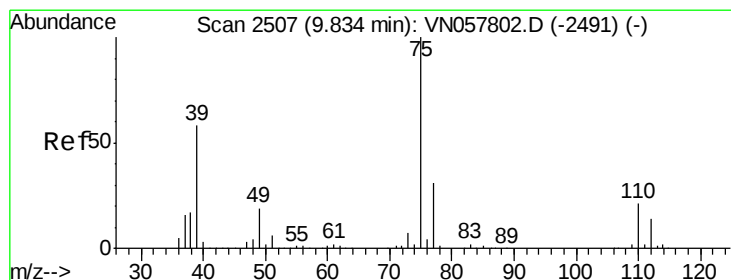
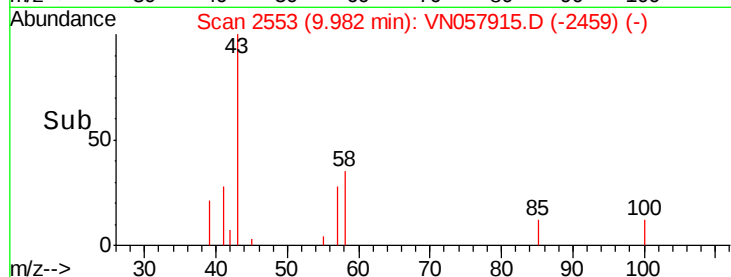
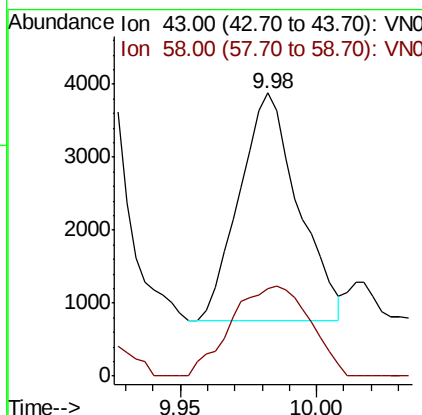
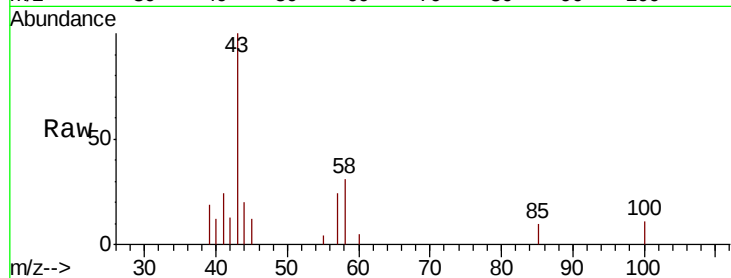




#51  
 4-Methyl-2-Pentanone  
 Concen: 0.813 ug/l  
 RT: 9.98 min Scan# 2553  
 Delta R.T. 0.00 min  
 Lab File: VN057915.D  
 Acq: 11 Sep 2019 11:23

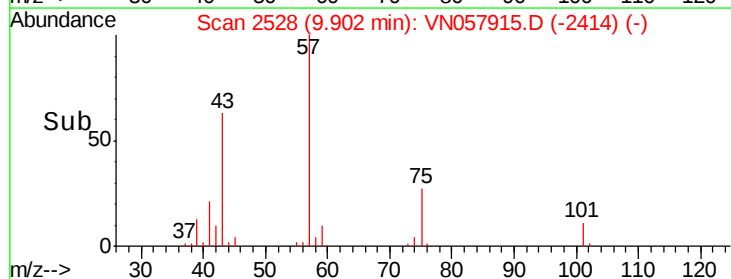
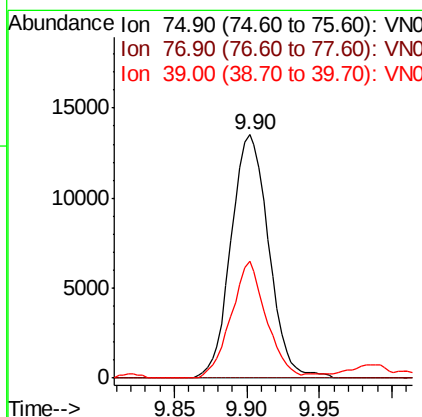
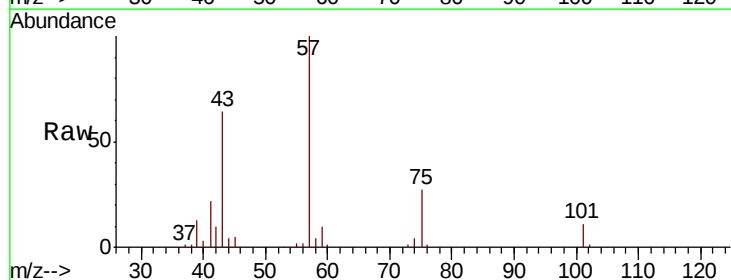
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 T11-C2-(0)

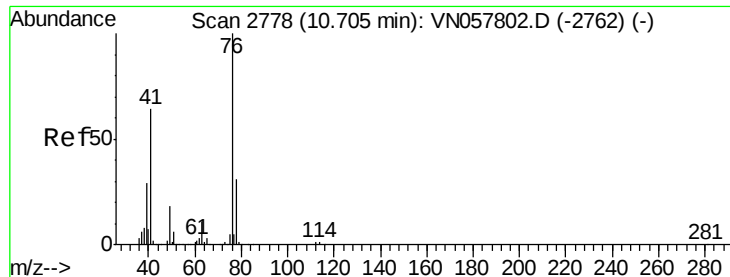
Tgt Ion: 43 Resp: 4679  
 Ion Ratio Lower Upper  
 43 100  
 58 52.8 29.8 44.6#



#54  
 cis-1,3-Dichloropropene  
 Concen: 3.559 ug/l  
 RT: 9.90 min Scan# 2528  
 Delta R.T. 0.07 min  
 Lab File: VN057915.D  
 Acq: 11 Sep 2019 11:23

Tgt Ion: 75 Resp: 24488  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 24.8 37.2#  
 39 47.8 46.2 69.4





#57

1,3-Dichloropropane

Concen: 0.298 ug/l

RT: 10.77 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN057915.D

Acq: 11 Sep 2019 11:23

Instrument :

MSVOA\_N

ClientSampleId :

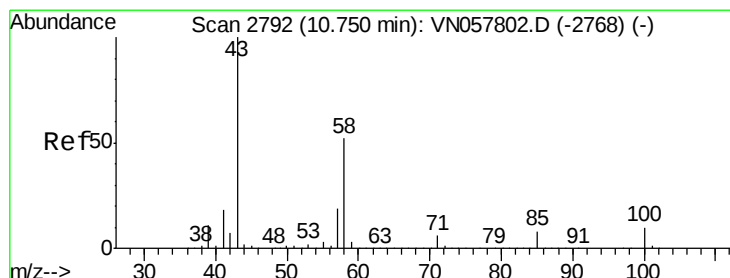
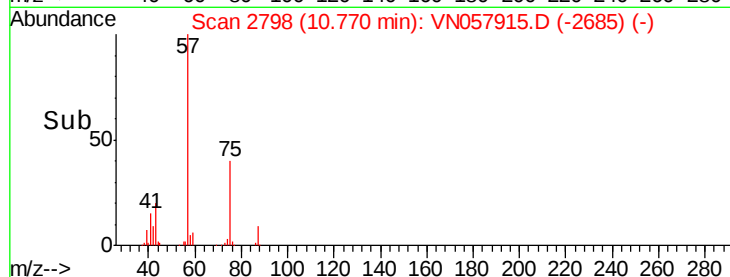
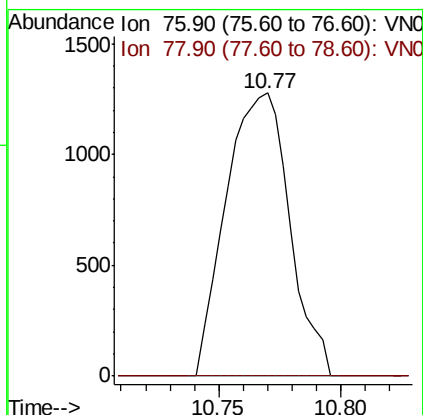
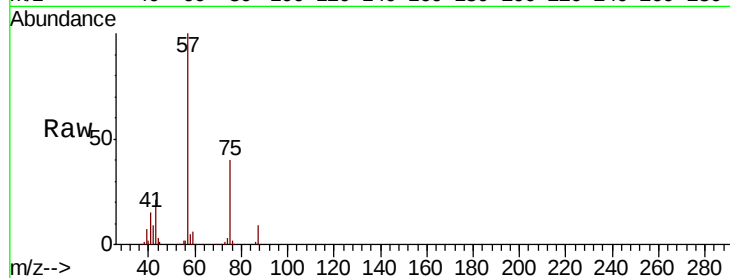
T11-C2-(0)

Tgt Ion: 76 Resp: 2309

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.2#



#59

2-Hexanone

Concen: 6.710 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN057915.D

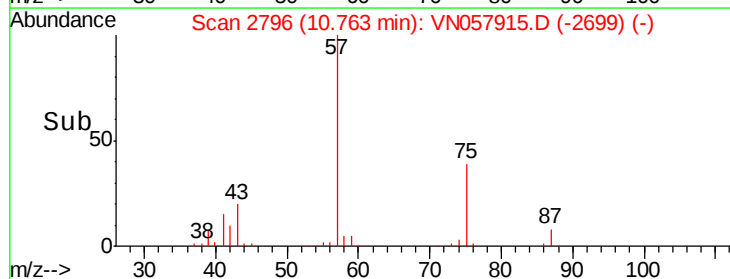
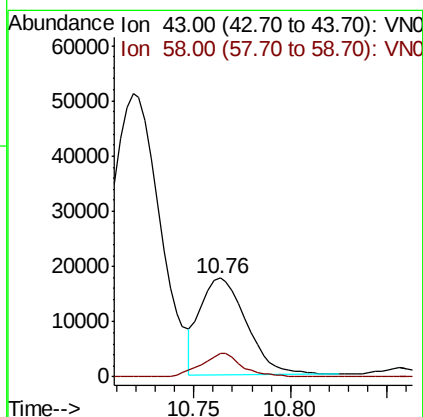
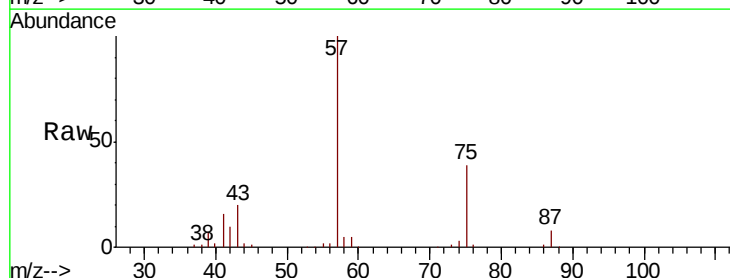
Acq: 11 Sep 2019 11:23

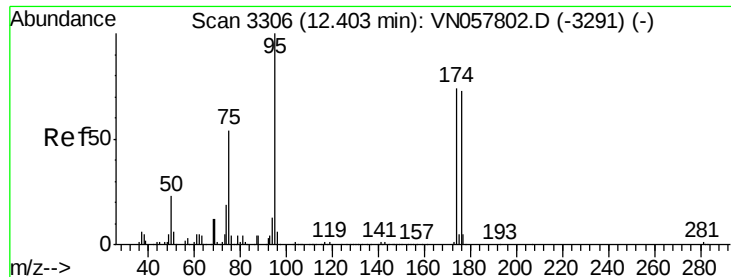
Tgt Ion: 43 Resp: 28947

Ion Ratio Lower Upper

43 100

58 21.7 25.6 76.8#





#62

4-Bromofluorobenzene

Concen: 45.351 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057915.D

Acq: 11 Sep 2019 11:23

Instrument :

MSVOA\_N

ClientSampleId :

T11-C2-(0)

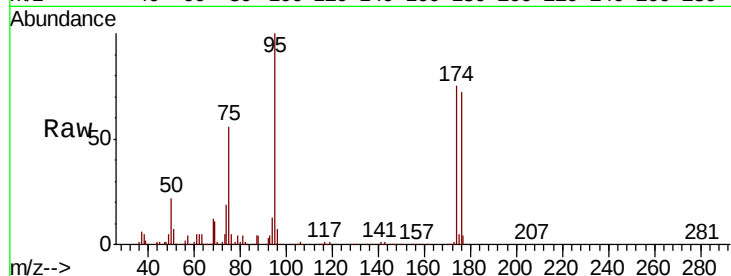
Tgt Ion: 95 Resp: 298920

Ion Ratio Lower Upper

95 100

174 76.1 0.0 150.2

176 72.1 0.0 146.0

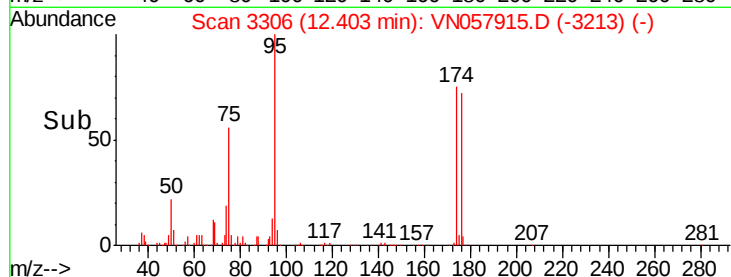


Abundance Ion 94.90 (94.60 to 95.60): VN057802.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN057802.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN057802.D (-3291) (-)

Time-->

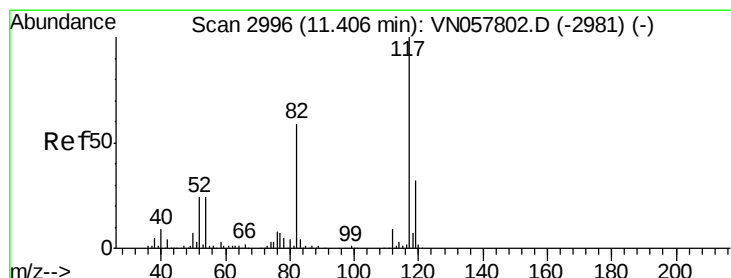


Abundance Ion 94.90 (94.60 to 95.60): VN057915.D (-3213) (-)

Ion 173.80 (173.50 to 174.50): VN057915.D (-3213) (-)

Ion 175.80 (175.50 to 176.50): VN057915.D (-3213) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN057915.D

Acq: 11 Sep 2019 11:23

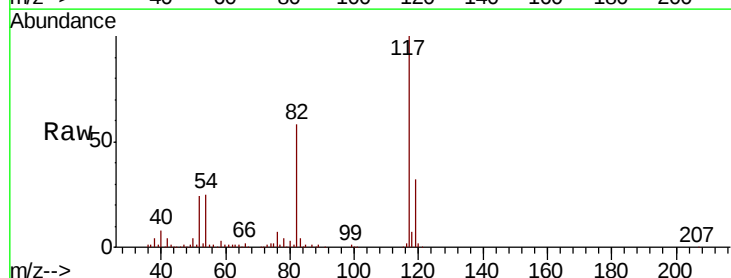
Tgt Ion: 117 Resp: 442606

Ion Ratio Lower Upper

117 100

82 58.5 47.2 70.8

119 32.5 25.3 37.9

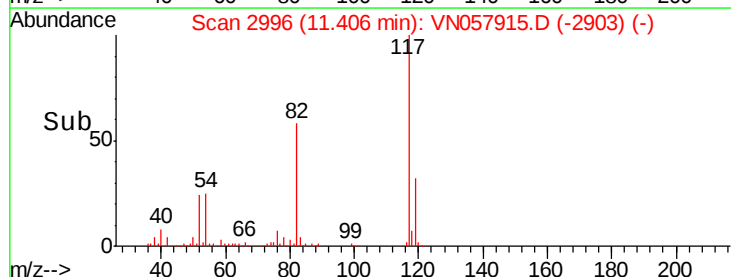


Abundance Ion 116.90 (116.60 to 117.60): VN057802.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN057802.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN057802.D (-2981) (-)

Time-->

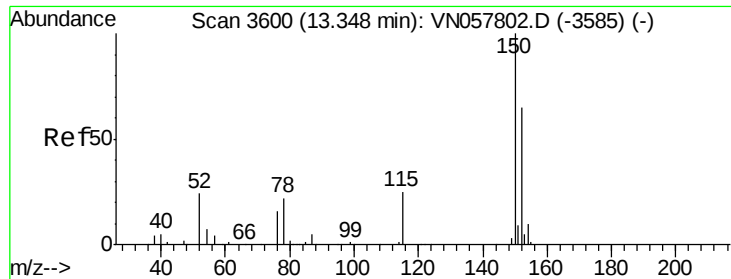


Abundance Ion 116.90 (116.60 to 117.60): VN057915.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN057915.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN057915.D (-2903) (-)

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN057915.D

Acq: 11 Sep 2019 11:23

Instrument :

MSVOA\_N

ClientSampleId :

T11-C2-(0)

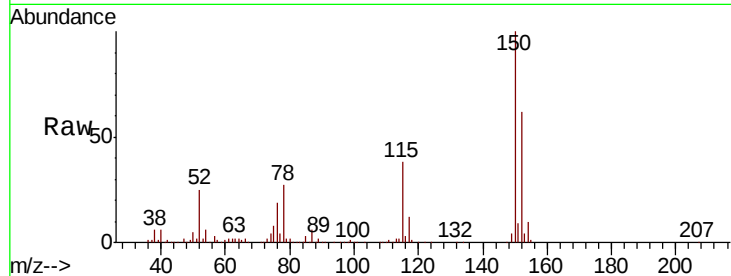
Tgt Ion:152 Resp: 227160

Ion Ratio Lower Upper

152 100

115 61.2 30.3 91.0

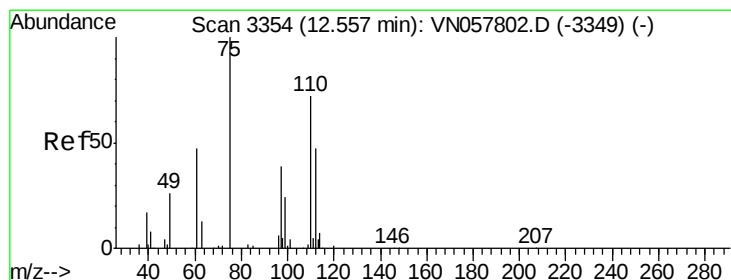
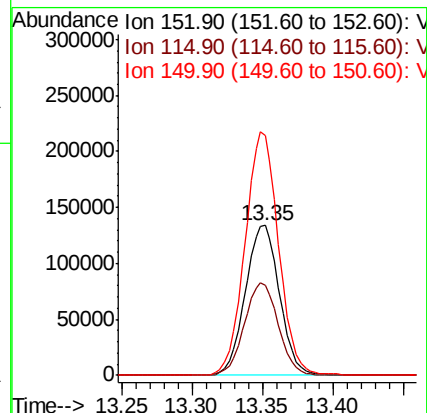
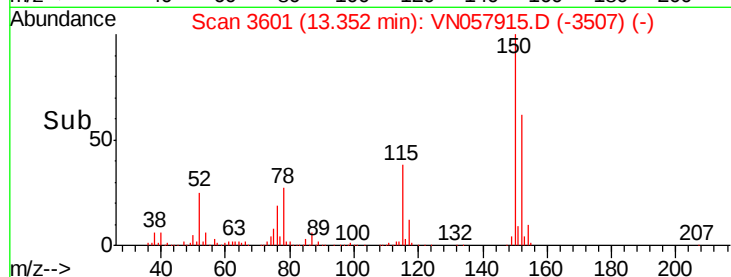
150 159.2 0.0 352.4



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: 32.254 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057915.D

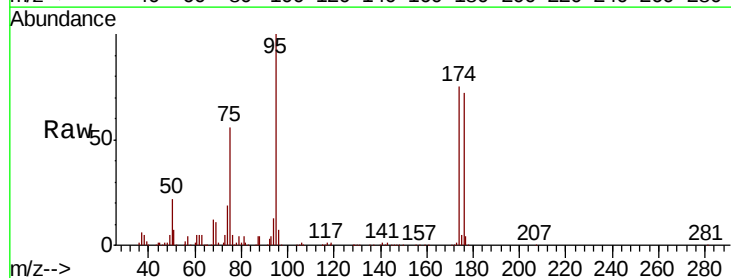
Acq: 11 Sep 2019 11:23

Tgt Ion: 75 Resp: 165743

Ion Ratio Lower Upper

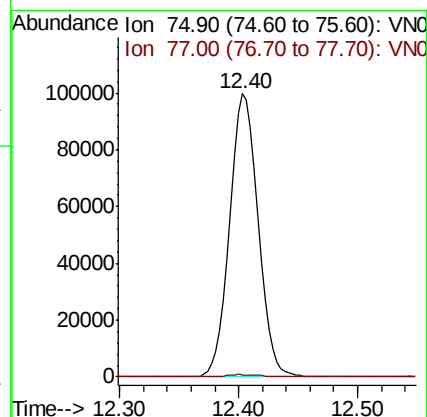
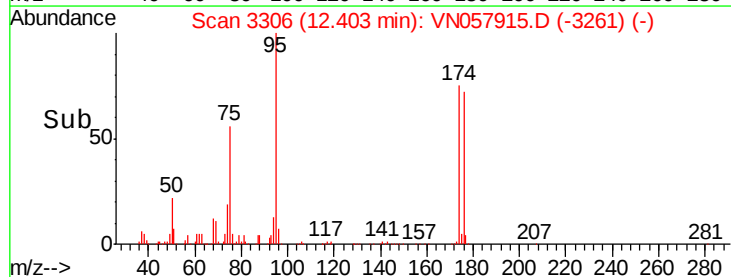
75 100

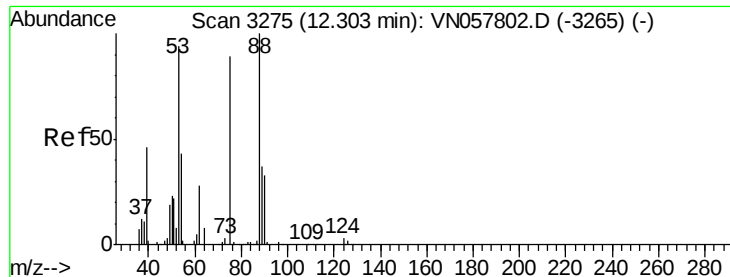
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 113.501 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057915.D

Acq: 11 Sep 2019 11:23

Instrument :

MSVOA\_N

ClientSampleId :

T11-C2-(0)

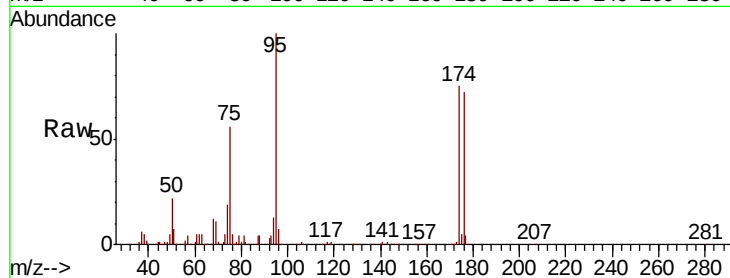
Tgt Ion: 75 Resp: 165743

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

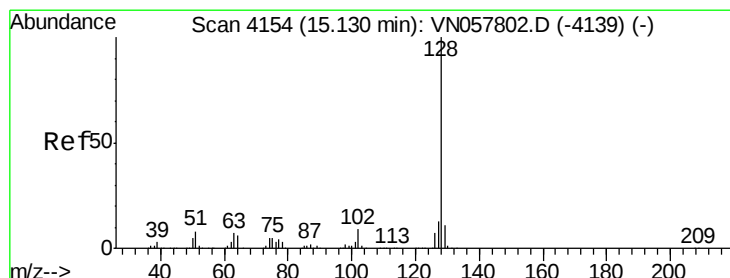
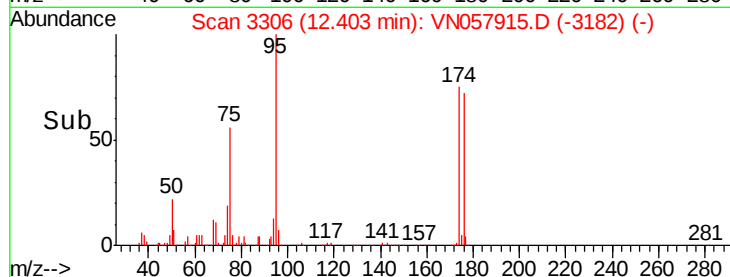
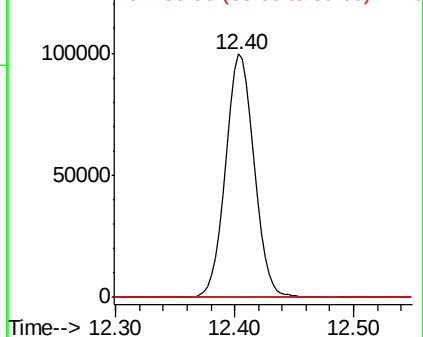
89 0.0 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#95

Naphthalene

Concen: Below Cal

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN057915.D

Acq: 11 Sep 2019 11:23

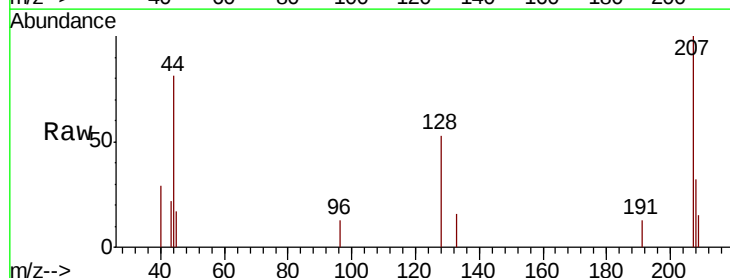
Tgt Ion: 128 Resp: 1312

Ion Ratio Lower Upper

128 100

127 2.3 10.3 15.5#

129 0.0 8.6 12.8#



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

