

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN091619\  
 Data File : VN058104.D  
 Acq On : 16 Sep 2019 9:55  
 Operator : JC/SP  
 Sample : VN0916WBL01  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0916WBL01

Quant Time: Sep 17 03:47:08 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

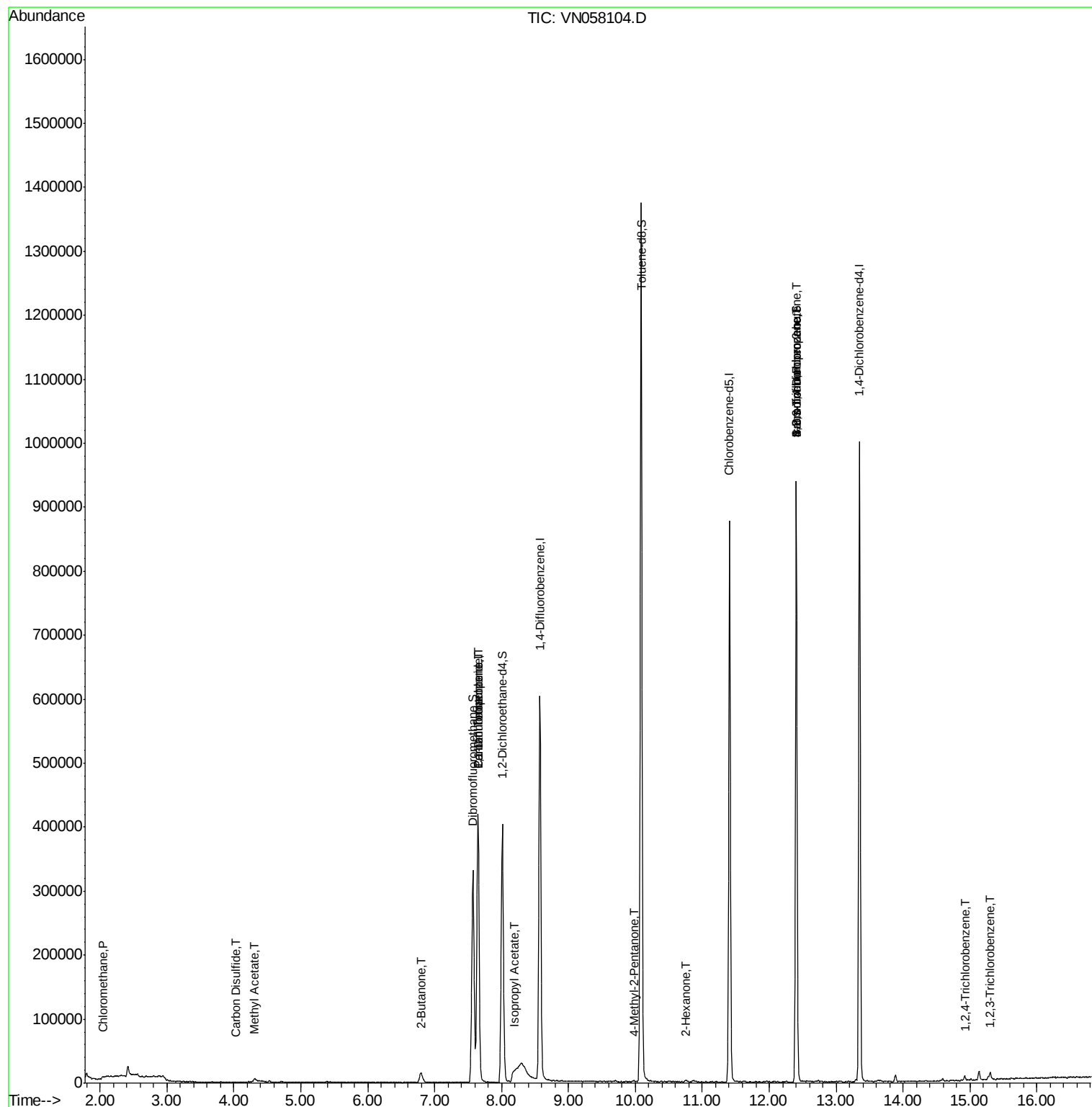
| Internal Standards             | R.T.  | QIon | Response | Conc           | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|----------------|---------|----------|
| 1) Pentafluorobenzene          | 7.65  | 168  | 329976   | 50.00          | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.57  | 114  | 527896   | 50.00          | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.41 | 117  | 475408   | 50.00          | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.35 | 152  | 249677   | 50.00          | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |                |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.01  | 65   | 359257   | 53.75          | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =              | 107.50% |          |
| 35) Dibromofluoromethane       | 7.57  | 113  | 249157   | 51.14          | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =              | 102.28% |          |
| 50) Toluene-d8                 | 10.09 | 98   | 953450   | 50.40          | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =              | 100.80% |          |
| 62) 4-Bromofluorobenzene       | 12.40 | 95   | 316596   | 43.92          | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =              | 87.84%  |          |
| Target Compounds               |       |      |          |                |         |          |
|                                |       |      |          |                | Qvalue  |          |
| 3) Chloromethane               | 2.05  | 50   | 1360     | 0.292 ug/l #   |         | 43       |
| 5) Bromomethane                | 2.54  | 94   | 65       | Below Cal      |         | 92       |
| 17) Carbon Disulfide           | 4.02  | 76   | 556      | 0.260 ug/l #   |         | 75       |
| 18) Methyl Acetate             | 4.31  | 43   | 6097     | 1.044 ug/l #   |         | 89       |
| 20) Methylene Chloride         | 4.53  | 84   | 533      | Below Cal #    |         | 91       |
| 25) 2-Butanone                 | 6.81  | 43   | 1147     | 0.362 ug/l #   |         | 49       |
| 31) Cyclohexane                | 7.65  | 56   | 7607     | Below Cal #    |         | 5        |
| 36) 1,1-Dichloropropene        | 7.65  | 75   | 28248    | 4.614 ug/l #   |         | 50       |
| 38) Carbon Tetrachloride       | 7.65  | 117  | 33922    | 6.069 ug/l #   |         | 16       |
| 43) Isopropyl Acetate          | 8.18  | 43   | 11405    | 1.072 ug/l #   |         | 56       |
| 51) 4-Methyl-2-Pentanone       | 9.97  | 43   | 1700     | 0.270 ug/l #   |         | 79       |
| 59) 2-Hexanone                 | 10.75 | 43   | 2982     | 0.632 ug/l     |         | 64       |
| 71) Bromoform                  | 12.40 | 173  | 833      | 0.309 ug/l #   |         | 1        |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 174288   | 30.858 ug/l #  |         | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 174288   | 108.589 ug/l # |         | 6        |
| 93) 1,2,4-Trichlorobenzene     | 14.92 | 180  | 2491     | 0.430 ug/l     |         | 94       |
| 95) Naphthalene                | 15.14 | 128  | 12879    | Below Cal      |         | 96       |
| 96) 1,2,3-Trichlorobenzene     | 15.30 | 180  | 3154     | 1.610 ug/l     |         | 97       |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_N\DATA\VN091619\  
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Sample : VN0916WBL01  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0916WBL01

Quant Time: Sep 17 03:47:08 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N091019W.M  
Quant Title : SW846 8260  
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: VN058104.D

Acq: 16 Sep 2019 9:55

Instrument :

MSVOA\_N

ClientSampled :

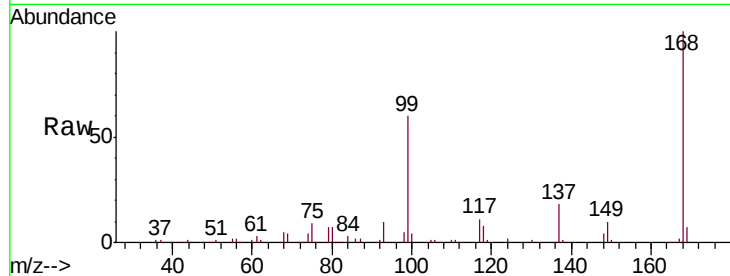
VN0916WBL01

Tgt Ion:168 Resp: 329976

Ion Ratio Lower Upper

168 100

99 60.1 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

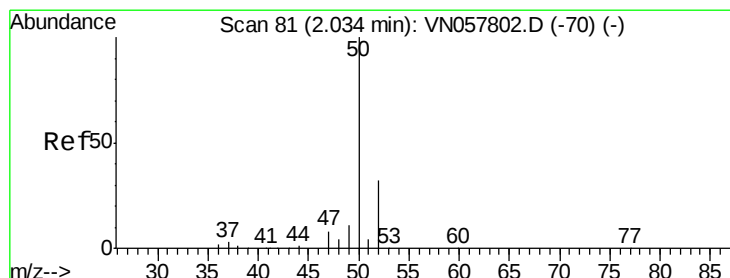
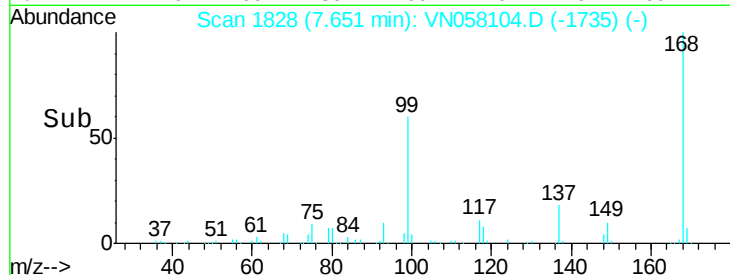
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.292 ug/l

RT: 2.05 min Scan# 85

Delta R.T. 0.01 min

Lab File: VN058104.D

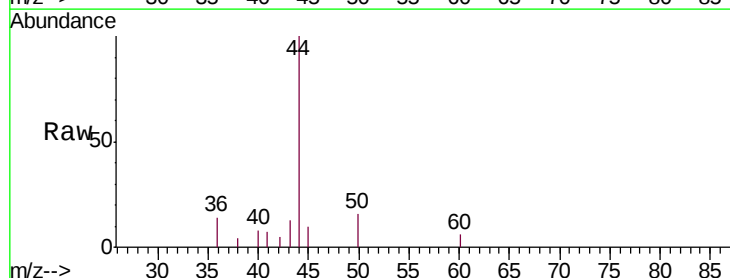
Acq: 16 Sep 2019 9:55

Tgt Ion: 50 Resp: 1360

Ion Ratio Lower Upper

50 100

52 0.0 25.5 38.3#



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.05

1000

800

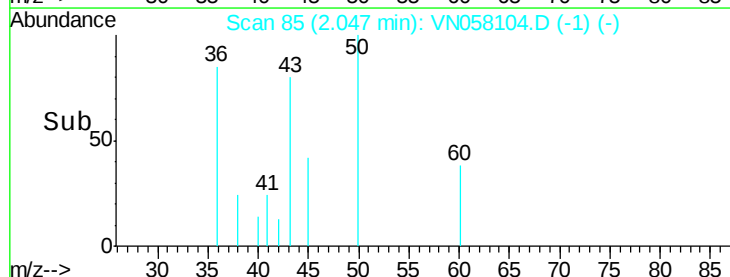
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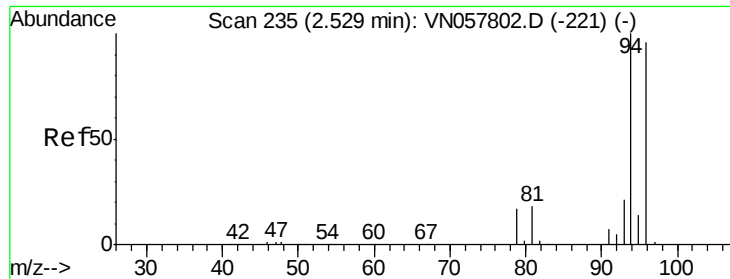
400

200

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.54 min Scan# 238

Delta R.T. 0.01 min

Lab File: VN058104.D

Acq: 16 Sep 2019 9:55

Instrument :

MSVOA\_N

ClientSampleId :

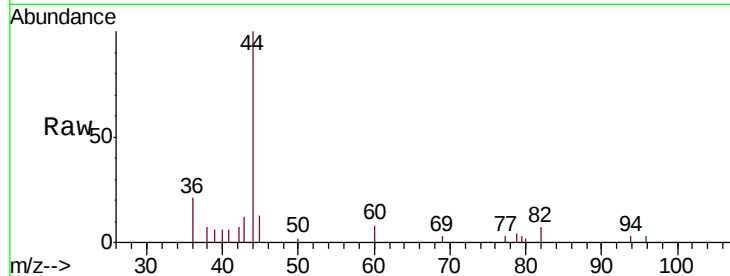
VN0916WBL01

Tgt Ion: 94 Resp: 65

Ion Ratio Lower Upper

94 100

96 104.0 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

250

200

150

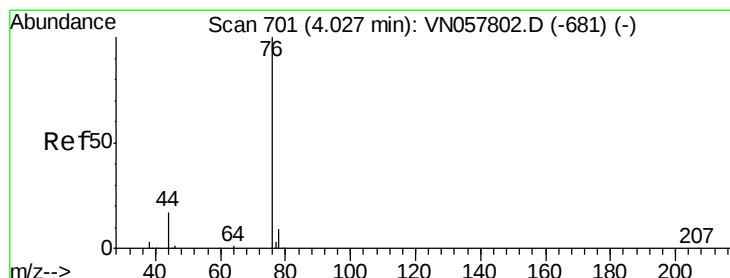
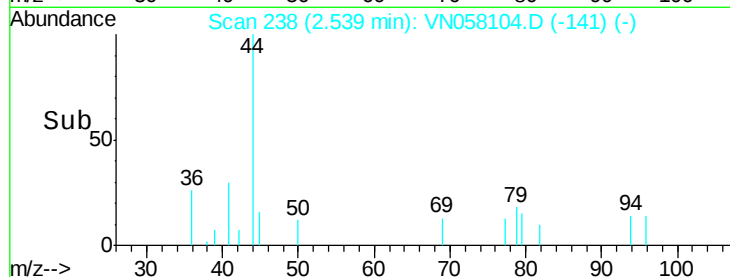
100

50

0

2.53 2.54 2.54 2.54

Time-->



#17

Carbon Disulfide

Concen: 0.260 ug/l

RT: 4.02 min Scan# 699

Delta R.T. -0.01 min

Lab File: VN058104.D

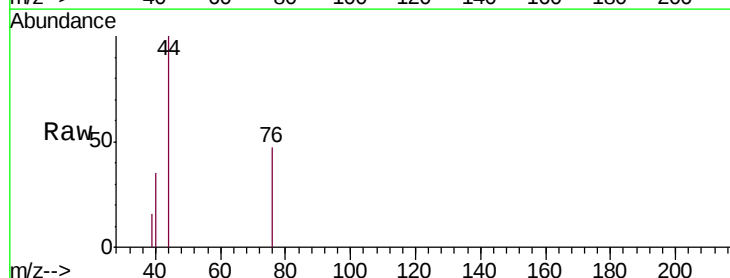
Acq: 16 Sep 2019 9:55

Tgt Ion: 76 Resp: 556

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

500

400

300

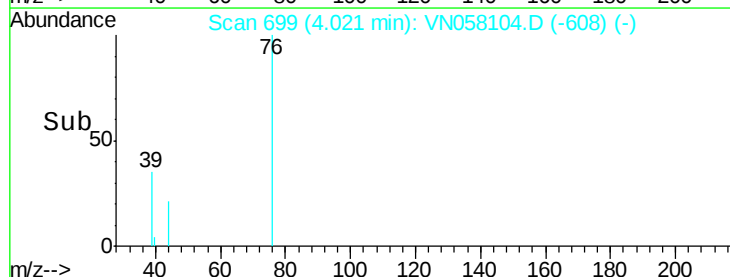
200

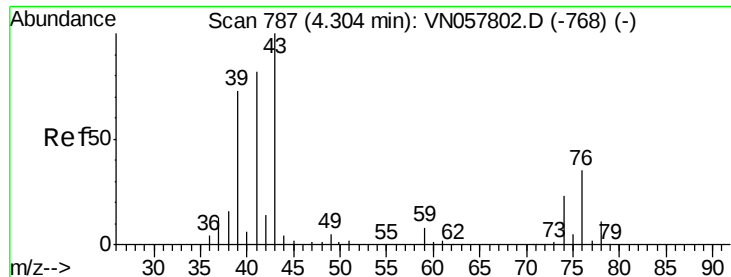
100

0

4.00 4.02 4.04

Time-->

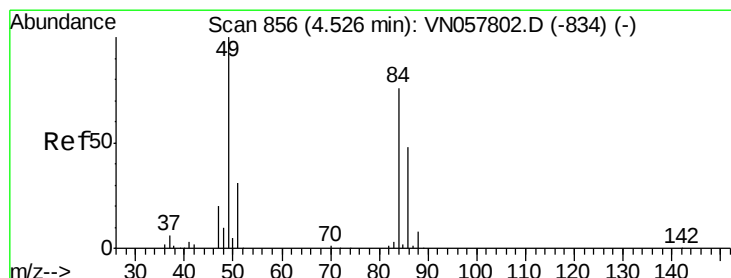
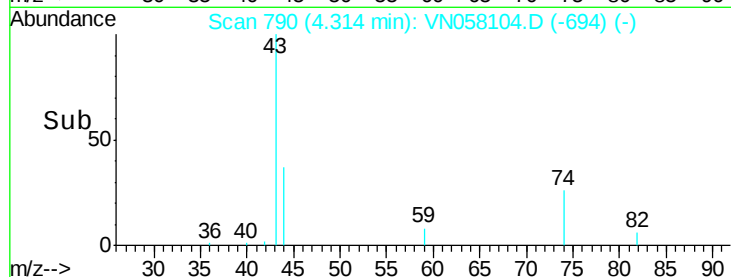
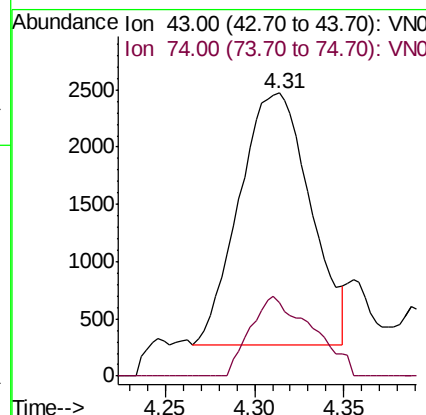
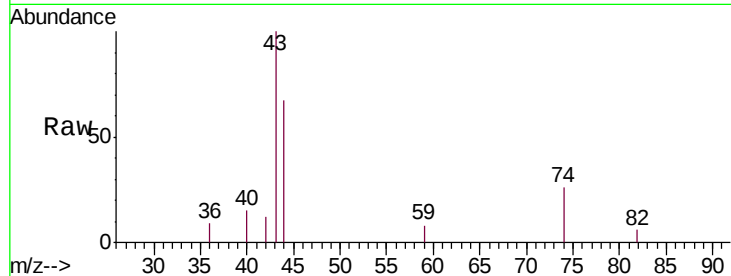




#18  
Methyl Acetate  
Concen: 1.044 ug/l  
RT: 4.31 min Scan# 790  
Delta R.T. 0.01 min  
Lab File: VN058104.D  
Acq: 16 Sep 2019 9:55

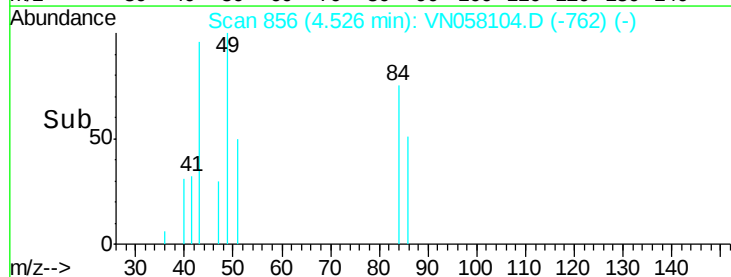
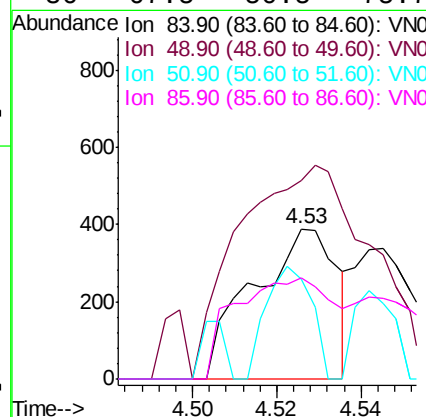
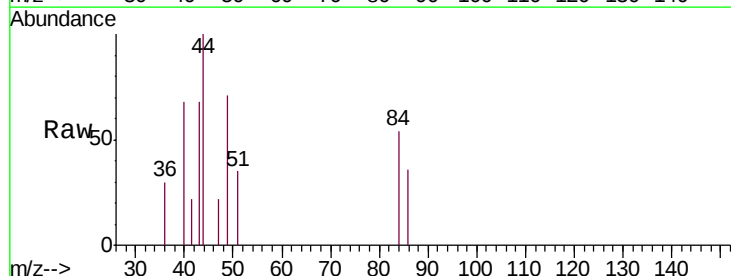
Instrument :  
MSVOA\_N  
ClientSampled :  
VN0916WBL01

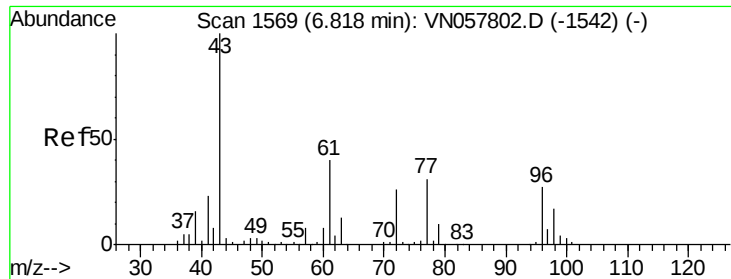
Tgt Ion: 43 Resp: 6097  
Ion Ratio Lower Upper  
43 100  
74 27.6 17.9 26.9#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.53 min Scan# 856  
Delta R.T. 0.00 min  
Lab File: VN058104.D  
Acq: 16 Sep 2019 9:55

Tgt Ion: 84 Resp: 533  
Ion Ratio Lower Upper  
84 100  
49 132.7 104.8 157.2  
51 66.2 33.0 49.4#  
86 67.5 50.5 75.7





#25

2-Butanone

Concen: 0.362 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. -0.01 min

Lab File: VN058104.D

Acq: 16 Sep 2019 9:55

Instrument :

MSVOA\_N

ClientSampleId :

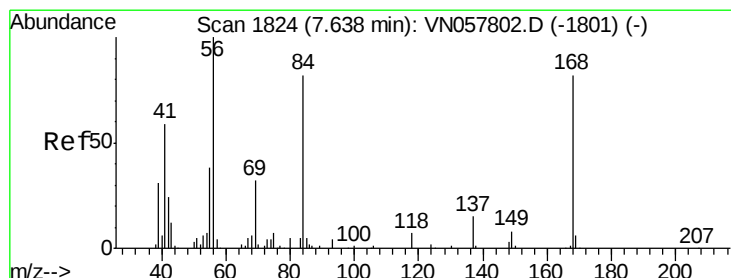
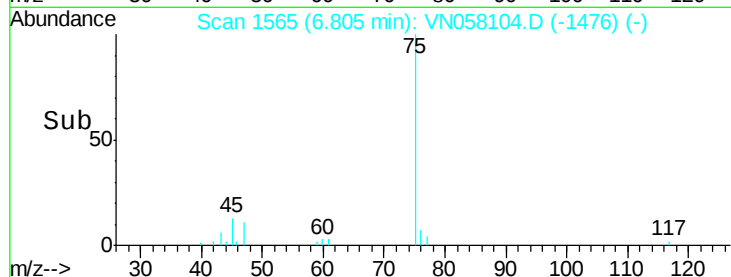
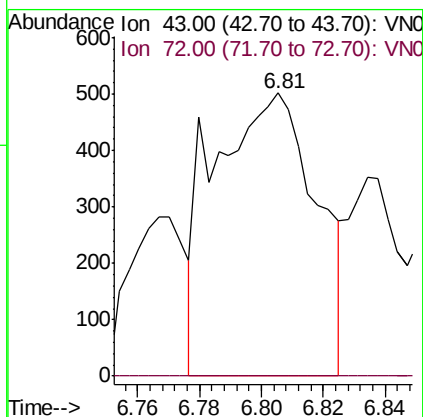
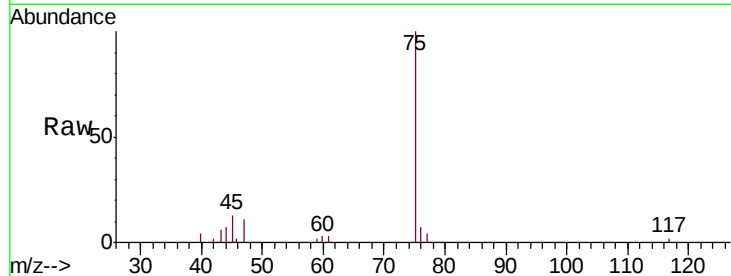
VN0916WBL01

Tgt Ion: 43 Resp: 1147

Ion Ratio Lower Upper

43 100

72 0.0 20.6 30.8#



#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN058104.D

Acq: 16 Sep 2019 9:55

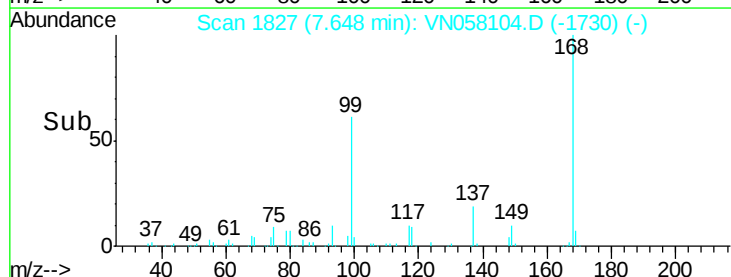
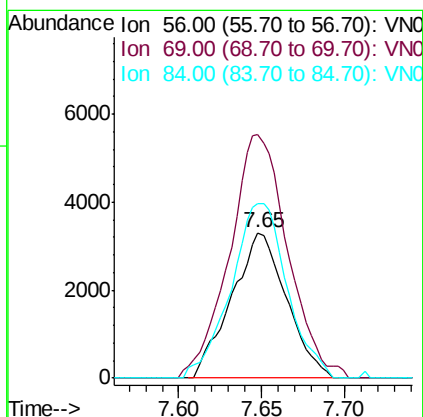
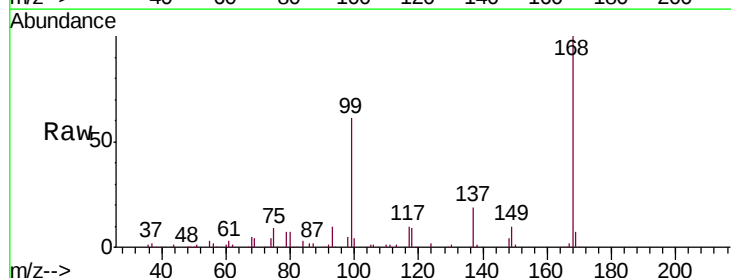
Tgt Ion: 56 Resp: 7607

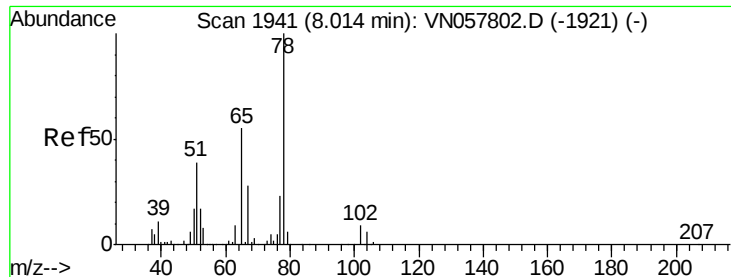
Ion Ratio Lower Upper

56 100

69 159.8 25.9 38.9#

84 119.9 65.6 98.4#

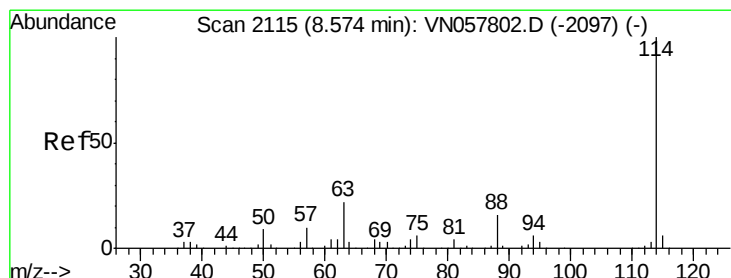
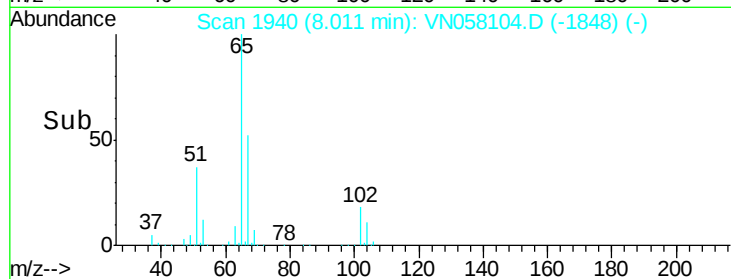
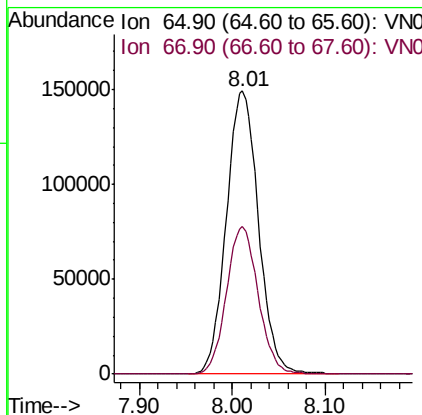
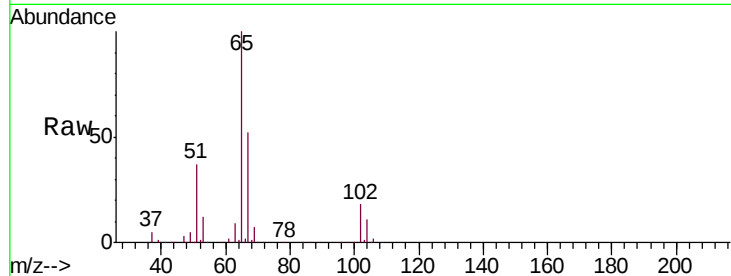




#33  
 1,2-Dichloroethane-d4  
 Concen: 53.754 ug/l  
 RT: 8.01 min Scan# 1940  
 Delta R.T. -0.00 min  
 Lab File: VN058104.D  
 Acq: 16 Sep 2019 9:55

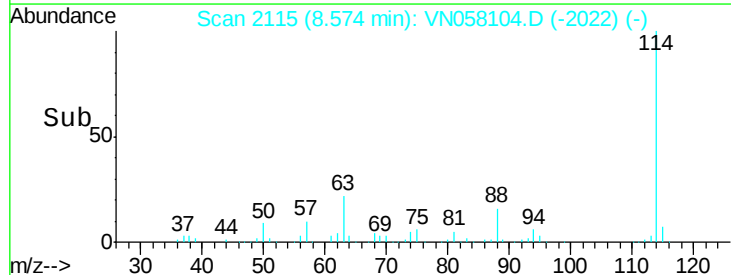
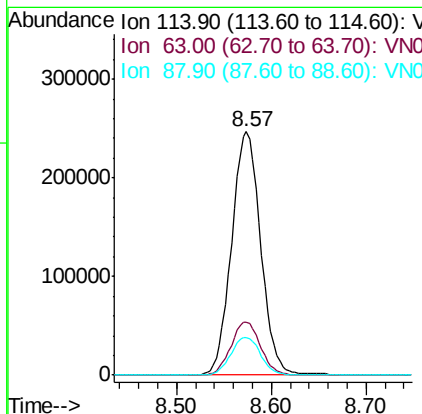
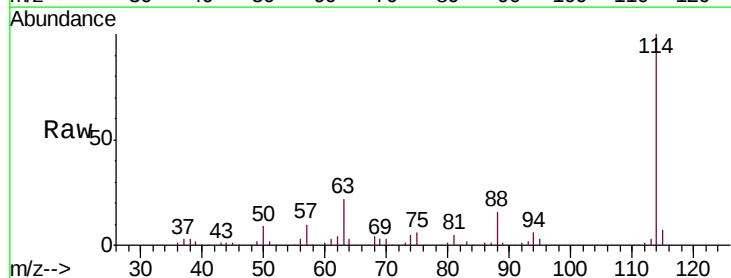
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0916WBL01

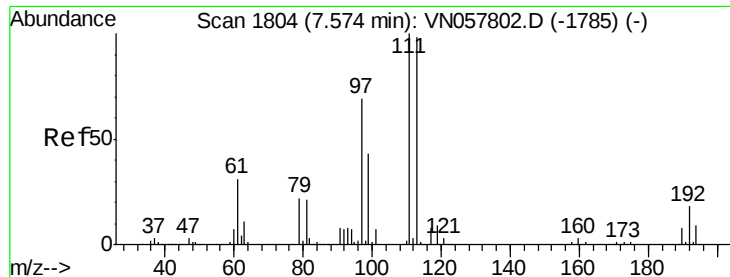
Tgt Ion: 65 Resp: 359257  
 Ion Ratio Lower Upper  
 65 100  
 67 51.4 0.0 104.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.57 min Scan# 2115  
 Delta R.T. 0.00 min  
 Lab File: VN058104.D  
 Acq: 16 Sep 2019 9:55

Tgt Ion: 114 Resp: 527896  
 Ion Ratio Lower Upper  
 114 100  
 63 21.9 0.0 44.0  
 88 15.7 0.0 31.4

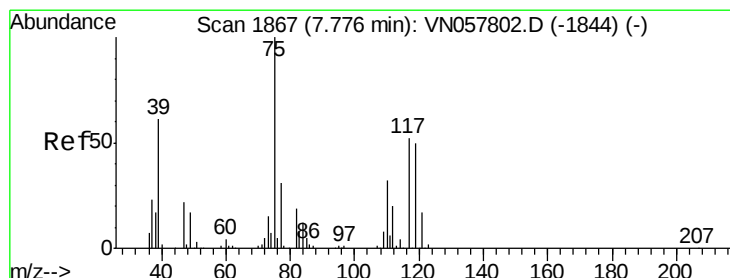
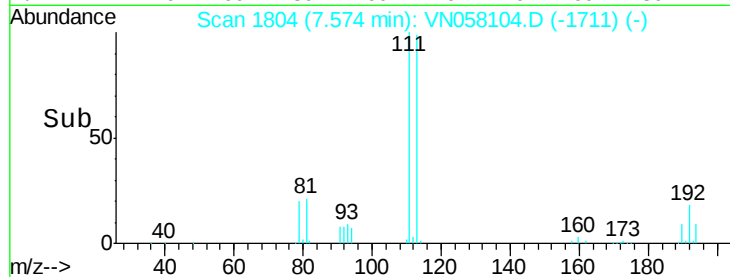
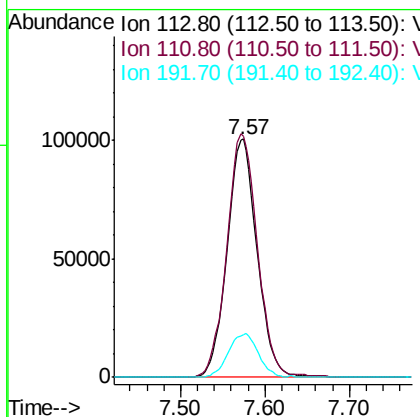
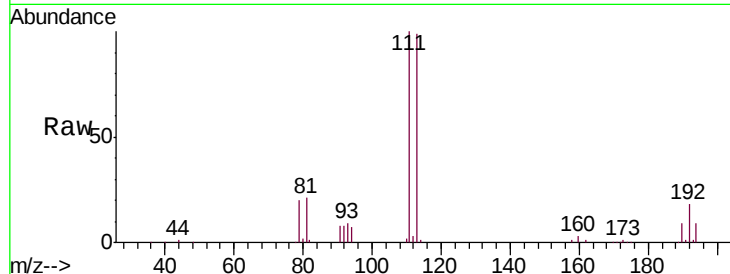




#35  
 Dibromofluoromethane  
 Concen: 51.138 ug/l  
 RT: 7.57 min Scan# 1804  
 Delta R.T. 0.00 min  
 Lab File: VN058104.D  
 Acq: 16 Sep 2019 9:55

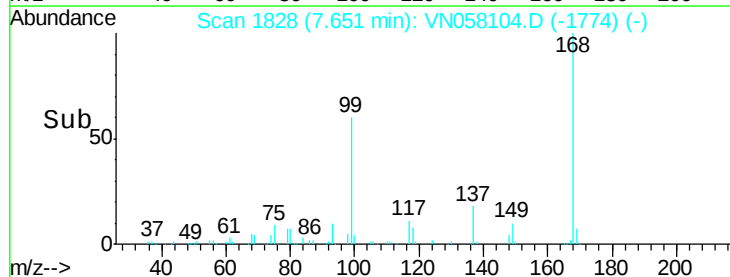
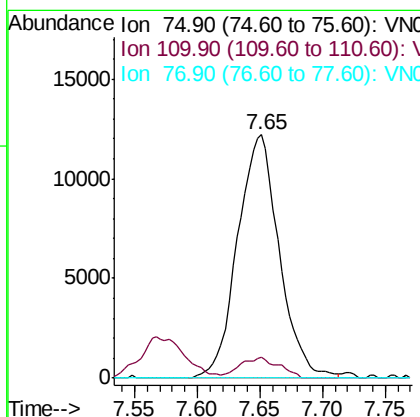
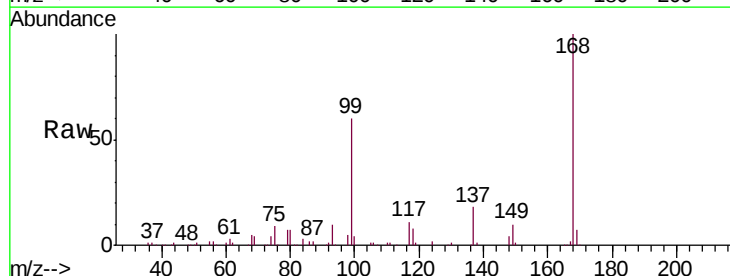
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 VN0916WBL01

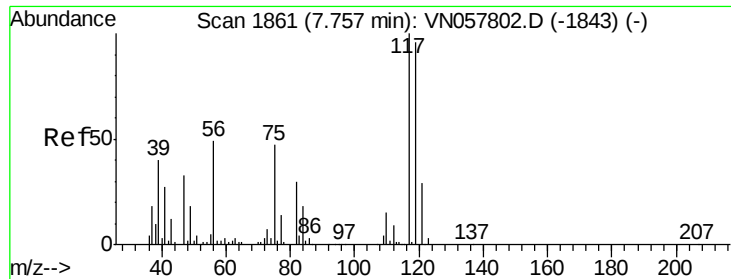
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 113     | 100   | 249157 |       |       |
| 111     | 104.3 |        | 81.3  | 121.9 |
| 192     | 18.3  |        | 14.6  | 22.0  |



#36  
 1,1-Dichloropropene  
 Concen: 4.614 ug/l  
 RT: 7.65 min Scan# 1828  
 Delta R.T. -0.13 min  
 Lab File: VN058104.D  
 Acq: 16 Sep 2019 9:55

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 75      | 100   | 28248 |       |       |
| 110     | 8.0   |       | 16.3  | 48.9# |
| 77      | 0.0   |       | 25.0  | 37.4# |





#38

Carbon Tetrachloride

Concen: 6.069 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058104.D

Acq: 16 Sep 2019 9:55

Instrument :

MSVOA\_N

ClientSampleId :

VN0916WBL01

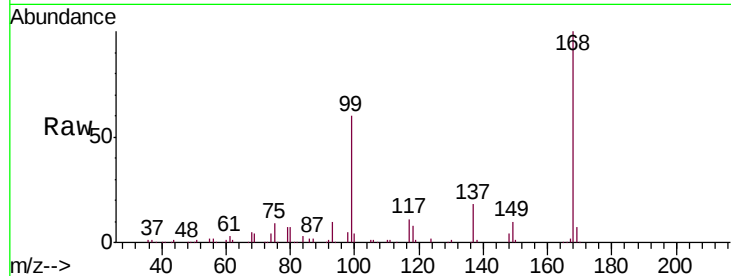
Tgt Ion: 117 Resp: 33922

Ion Ratio Lower Upper

117 100

119 5.3 76.9 115.3#

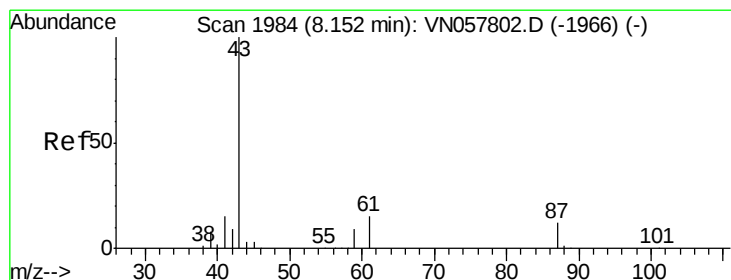
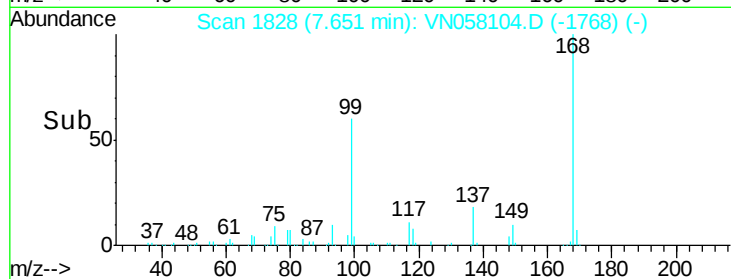
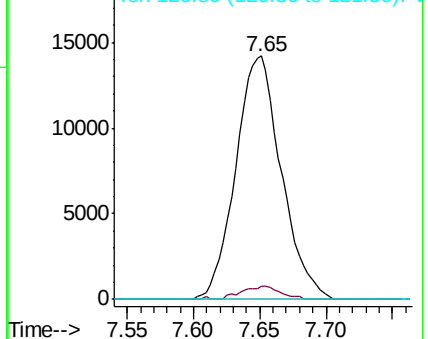
121 0.0 23.4 35.2#



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: 1.072 ug/l

RT: 8.18 min Scan# 1991

Delta R.T. 0.02 min

Lab File: VN058104.D

Acq: 16 Sep 2019 9:55

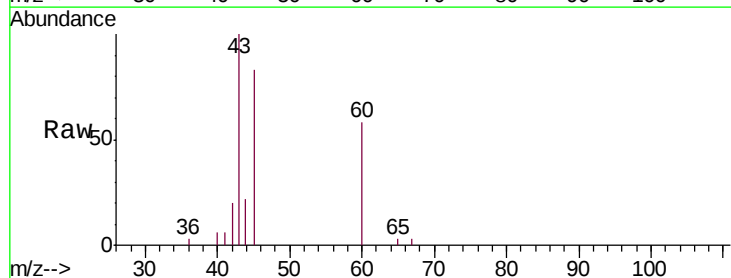
Tgt Ion: 43 Resp: 11405

Ion Ratio Lower Upper

43 100

61 0.0 20.1 30.1#

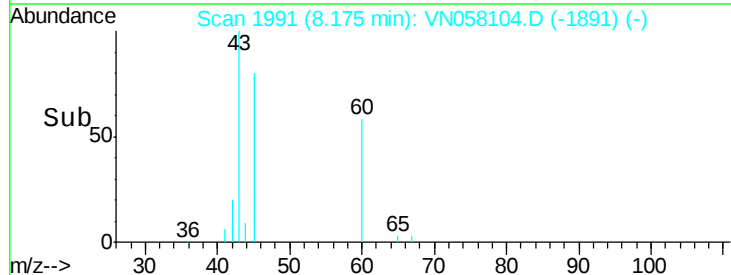
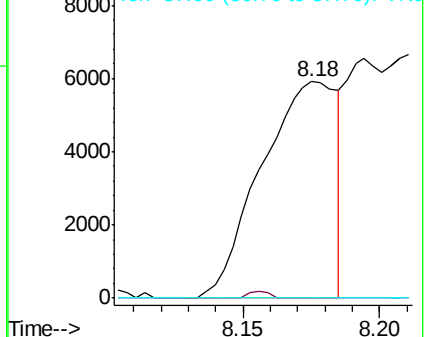
87 0.0 9.5 14.3#

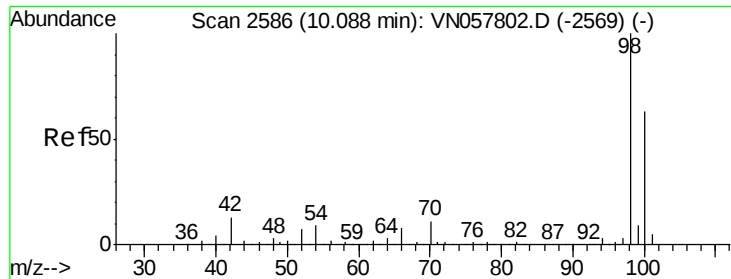


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#50

Toluene-d8

Concen: 50.402 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058104.D

Acq: 16 Sep 2019 9:55

Instrument :

MSVOA\_N

ClientSampleId :

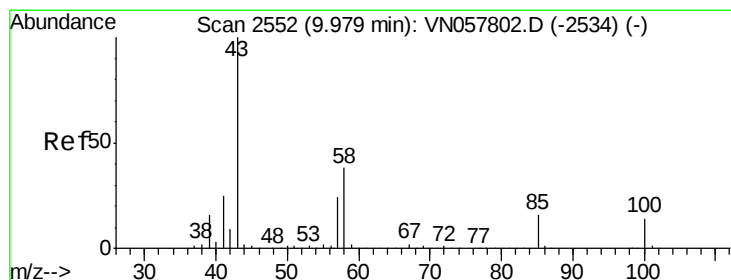
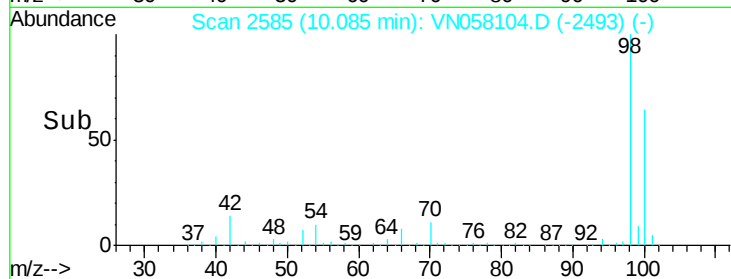
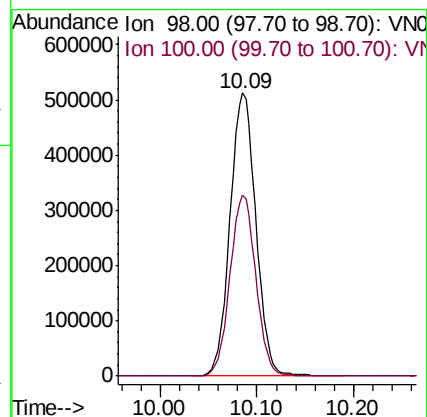
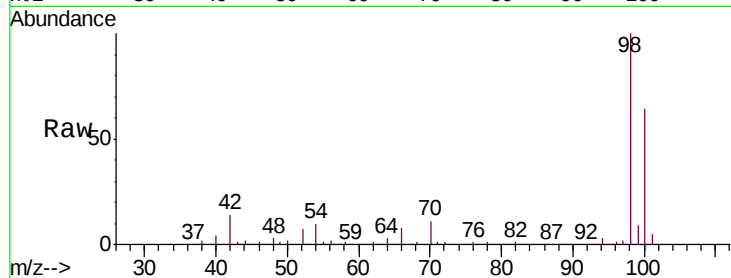
VN0916WBL01

Tgt Ion: 98 Resp: 953450

Ion Ratio Lower Upper

98 100

100 63.8 50.3 75.5



#51

4-Methyl-2-Pentanone

Concen: 0.270 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. -0.01 min

Lab File: VN058104.D

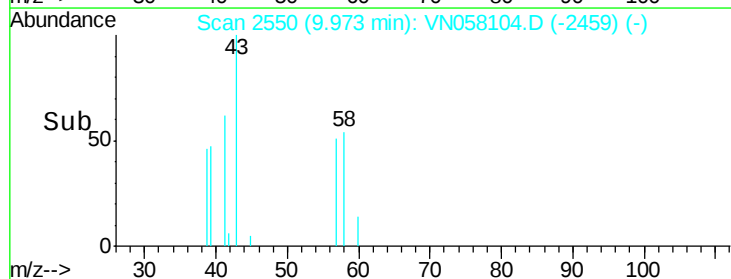
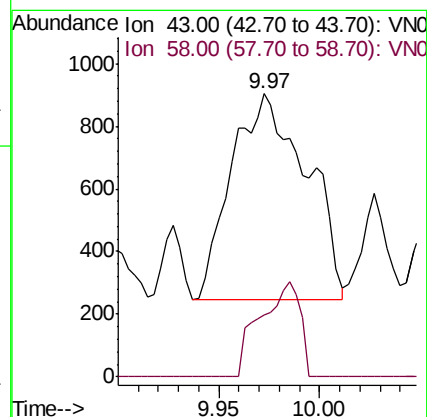
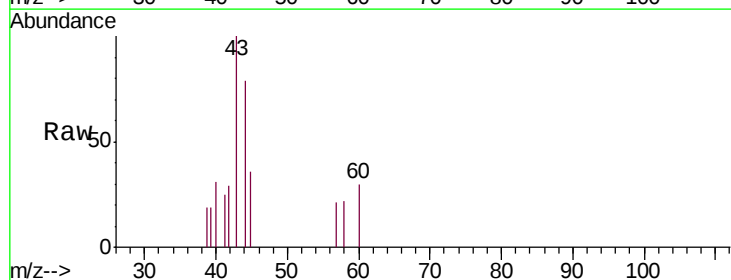
Acq: 16 Sep 2019 9:55

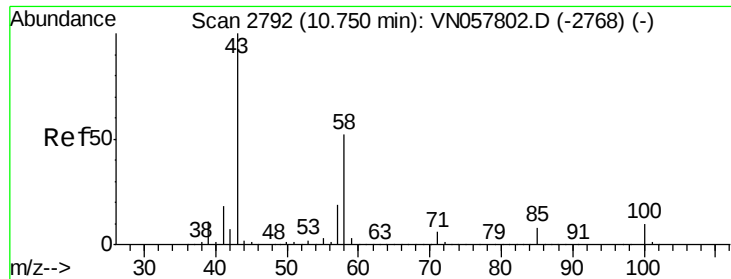
Tgt Ion: 43 Resp: 1700

Ion Ratio Lower Upper

43 100

58 24.7 29.8 44.6#

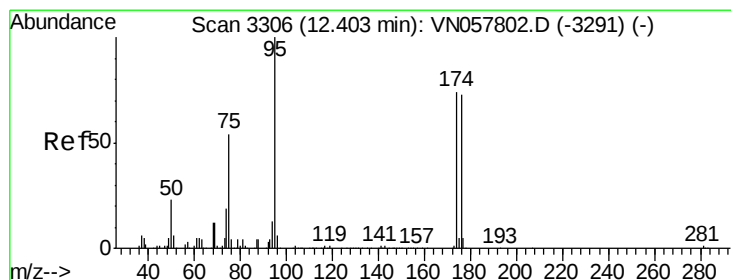
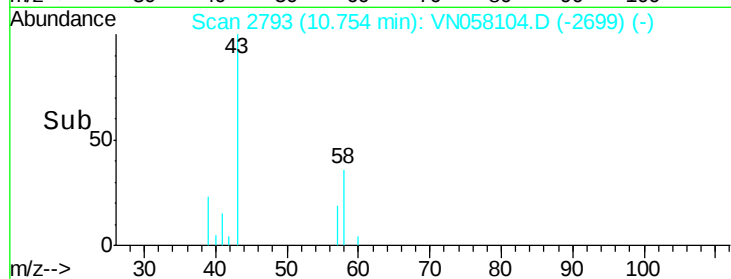
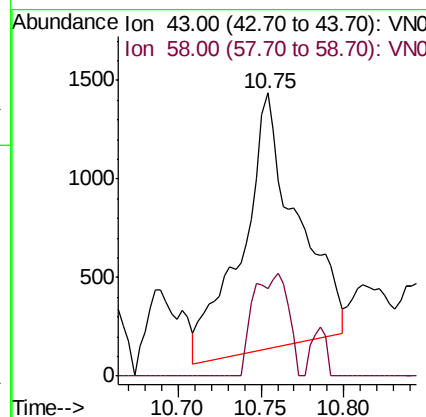
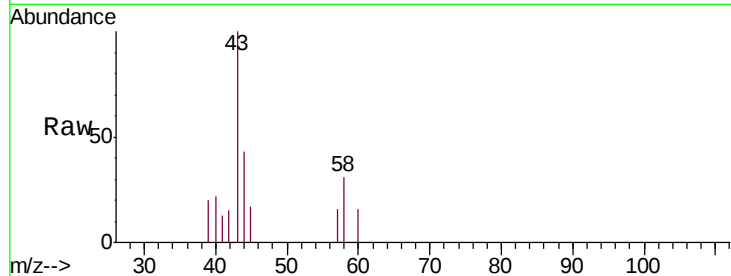




#59  
2-Hexanone  
Concen: 0.632 ug/l  
RT: 10.75 min Scan# 2793  
Delta R.T. 0.00 min  
Lab File: VN058104.D  
Acq: 16 Sep 2019 9:55

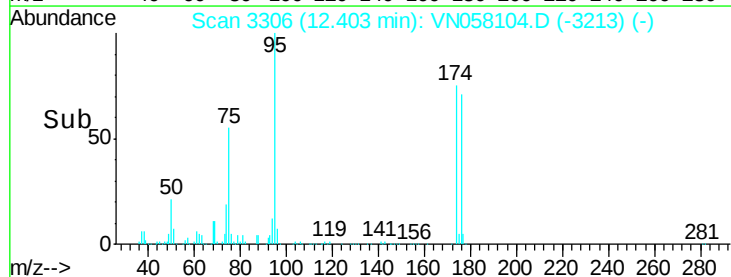
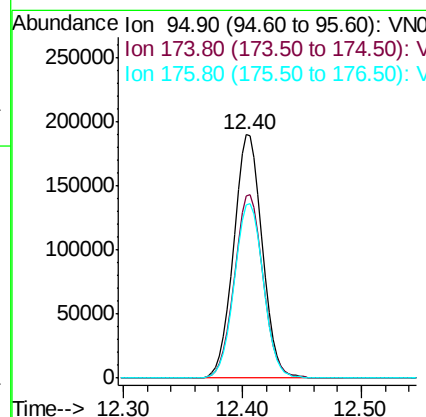
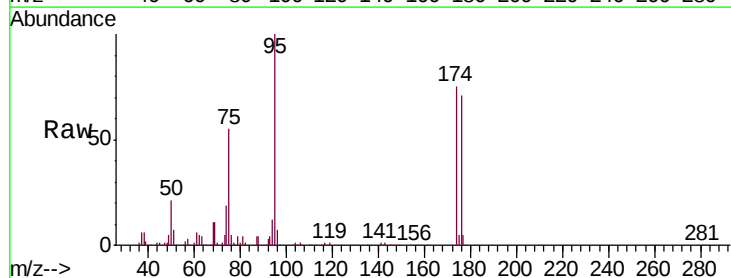
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0916WBL01

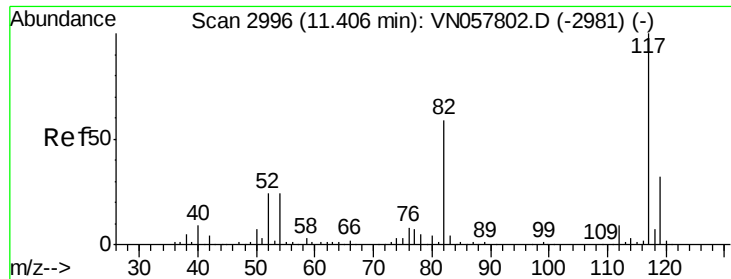
Tgt Ion: 43 Resp: 2982  
Ion Ratio Lower Upper  
43 100  
58 25.8 25.6 76.8



#62  
4-Bromofluorobenzene  
Concen: 43.917 ug/l  
RT: 12.40 min Scan# 3306  
Delta R.T. 0.00 min  
Lab File: VN058104.D  
Acq: 16 Sep 2019 9:55

Tgt Ion: 95 Resp: 316596  
Ion Ratio Lower Upper  
95 100  
174 75.8 0.0 150.2  
176 72.7 0.0 146.0

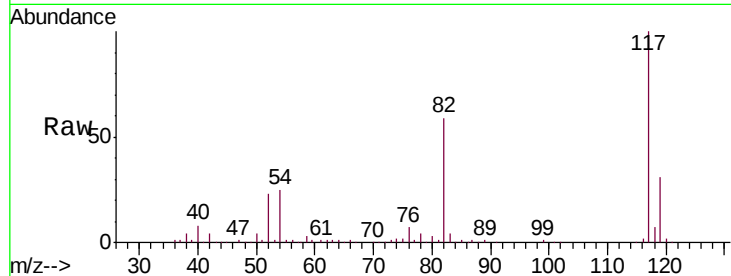




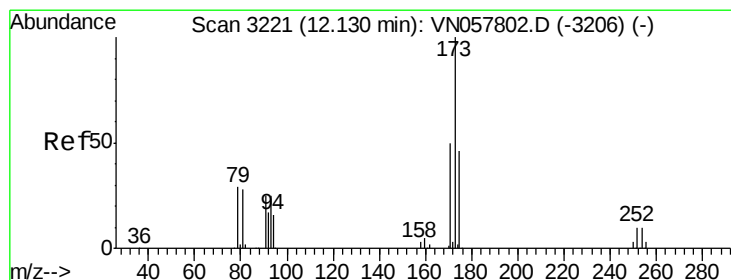
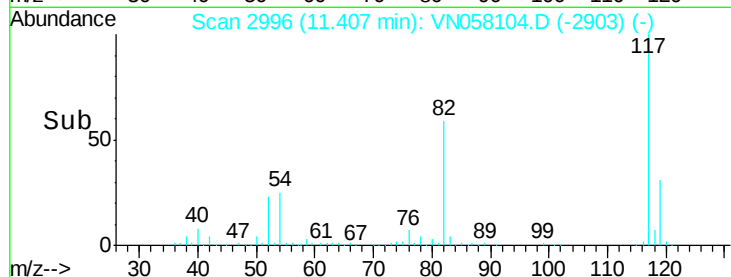
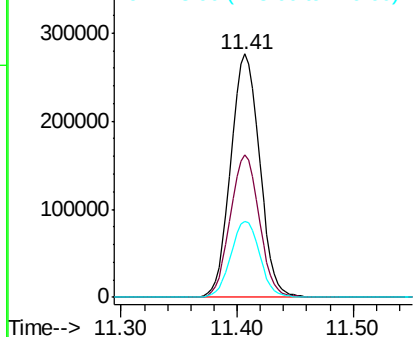
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. 0.00 min  
Lab File: VN058104.D  
Acq: 16 Sep 2019 9:55

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0916WBL01

Tgt Ion:117 Resp: 475408  
Ion Ratio Lower Upper  
117 100  
82 58.7 47.2 70.8  
119 31.3 25.3 37.9

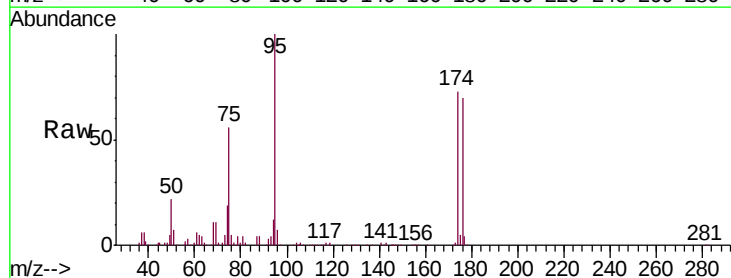


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VN0  
Ion 118.90 (118.60 to 119.60): V

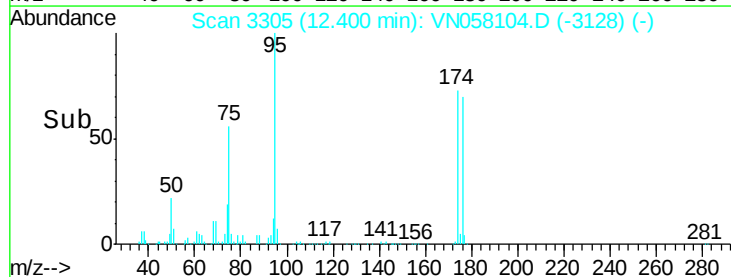
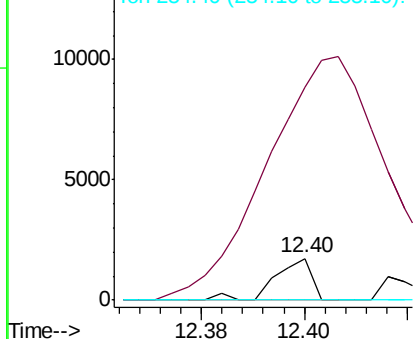


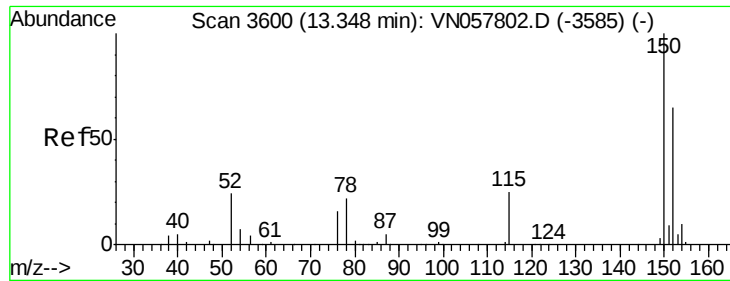
#71  
Bromoform  
Concen: 0.309 ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. 0.27 min  
Lab File: VN058104.D  
Acq: 16 Sep 2019 9:55

Tgt Ion:173 Resp: 833  
Ion Ratio Lower Upper  
173 100  
175 1740.9 23.5 70.6#  
254 0.0 0.1 0.1#



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: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058104.D

Acq: 16 Sep 2019 9:55

Instrument :

MSVOA\_N

ClientSampleId :

VN0916WBL01

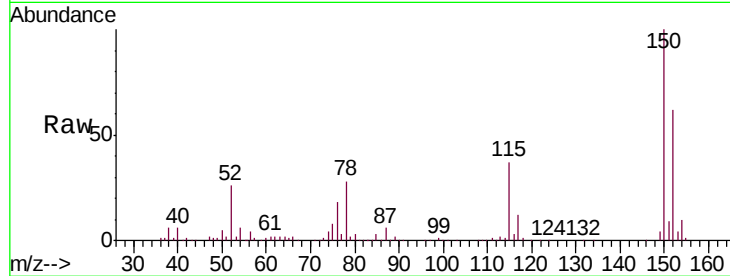
Tgt Ion:152 Resp: 249677

Ion Ratio Lower Upper

152 100

115 60.0 30.3 91.0

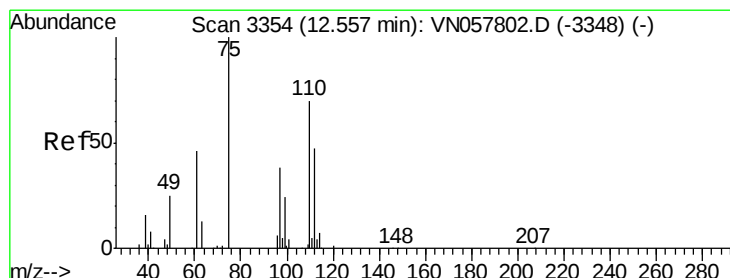
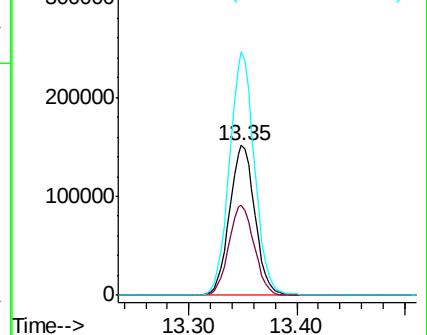
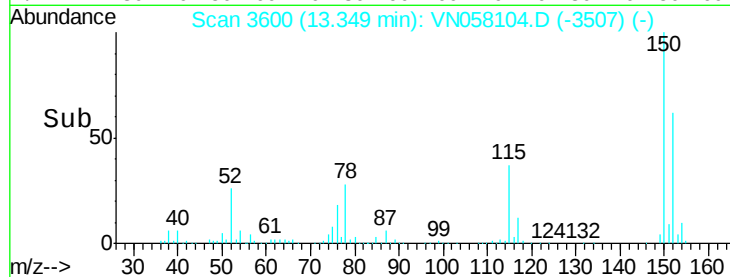
150 158.9 0.0 352.4



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: 30.858 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058104.D

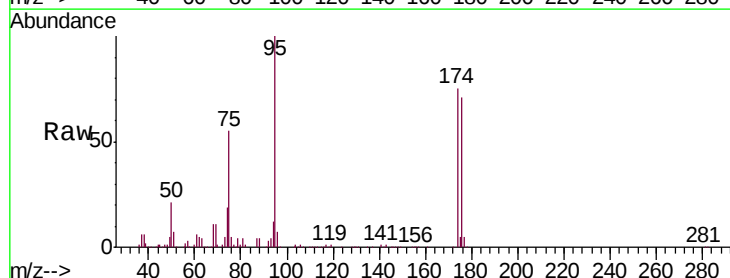
Acq: 16 Sep 2019 9:55

Tgt Ion: 75 Resp: 174288

Ion Ratio Lower Upper

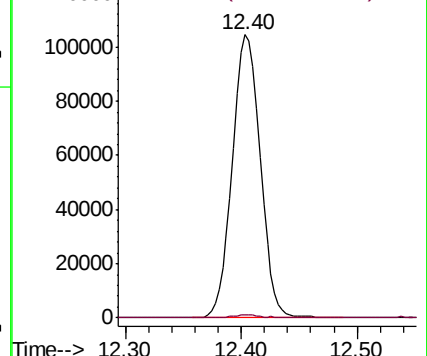
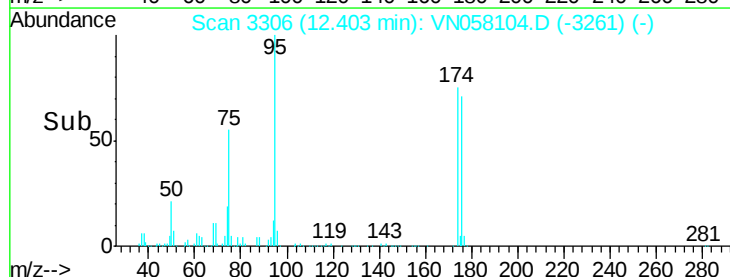
75 100

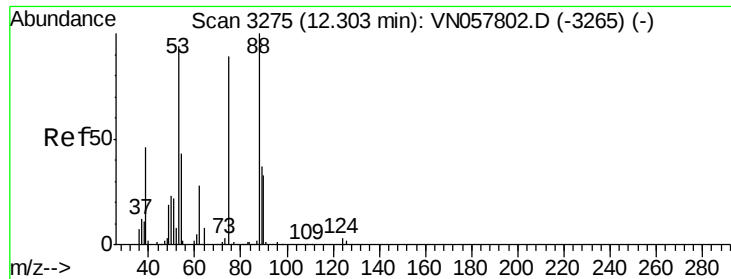
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 108.589 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058104.D

Acq: 16 Sep 2019 9:55

Instrument :

MSVOA\_N

ClientSampled :

VN0916WBL01

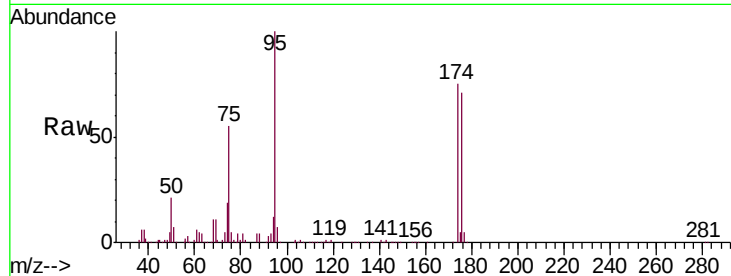
Tgt Ion: 75 Resp: 174288

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

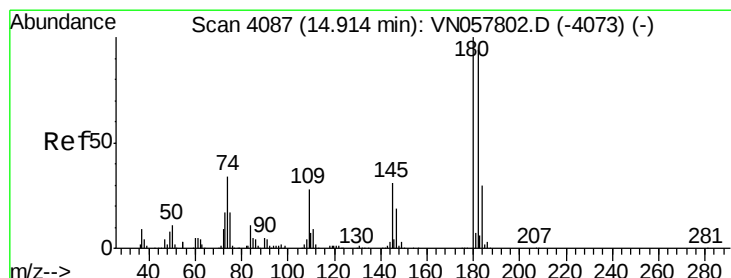
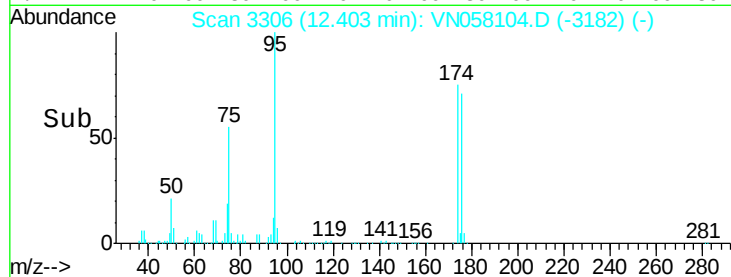
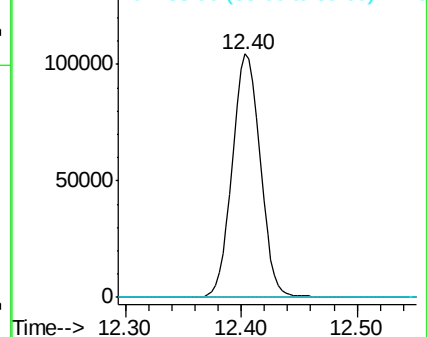
89 0.0 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VN058104.D (-3306) (-)

Ion 53.00 (52.70 to 53.70): VN058104.D (-3306) (-)

Ion 88.90 (88.60 to 89.60): VN058104.D (-3306) (-)



#93

1,2,4-Trichlorobenzene

Concen: 0.430 ug/l

RT: 14.92 min Scan# 4088

Delta R.T. 0.00 min

Lab File: VN058104.D

Acq: 16 Sep 2019 9:55

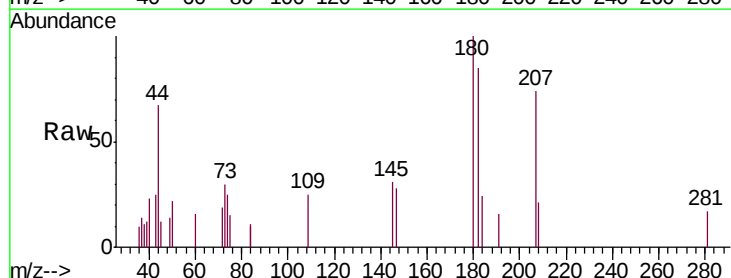
Tgt Ion: 180 Resp: 2491

Ion Ratio Lower Upper

180 100

182 87.5 46.9 140.8

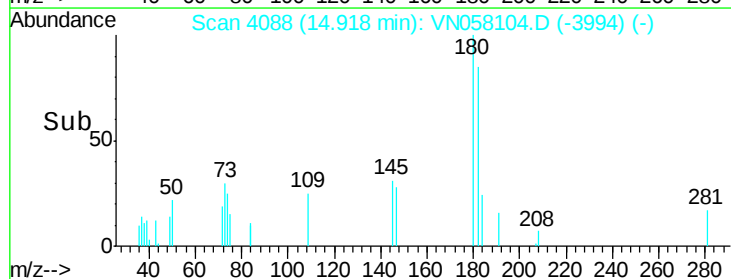
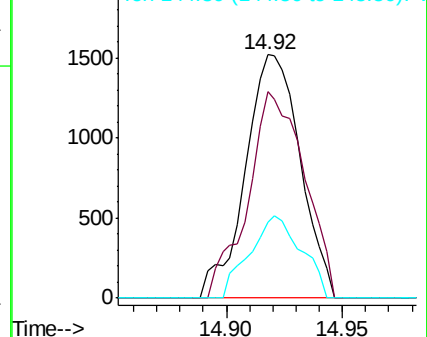
145 31.9 14.9 44.7

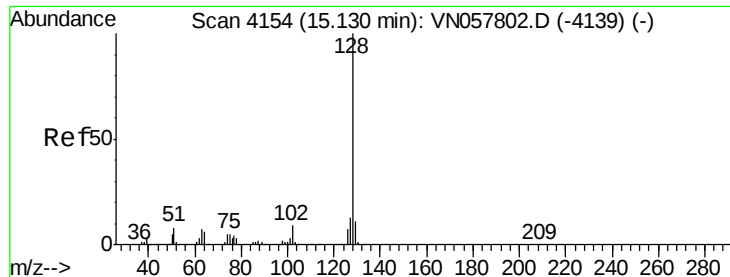


Abundance Ion 179.80 (179.50 to 180.50): VN058104.D (-4088) (-)

Ion 181.80 (181.50 to 182.50): VN058104.D (-4088) (-)

Ion 144.80 (144.50 to 145.50): VN058104.D (-4088) (-)





#95

Naphthalene

Concen: Below Cal

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN058104.D

Acq: 16 Sep 2019 9:55

Instrument :

MSVOA\_N

ClientSampleId :

VN0916WBL01

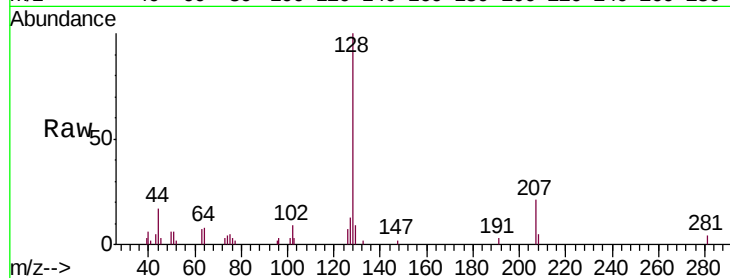
Tgt Ion:128 Resp: 12879

Ion Ratio Lower Upper

128 100

127 11.6 10.3 15.5

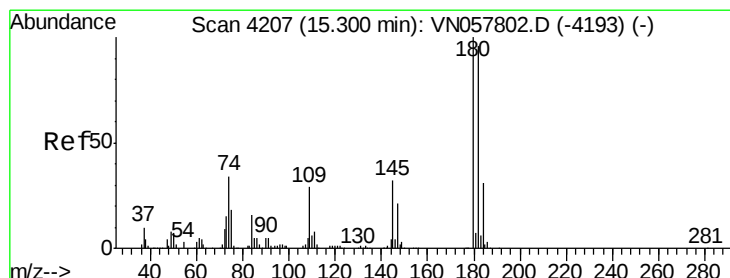
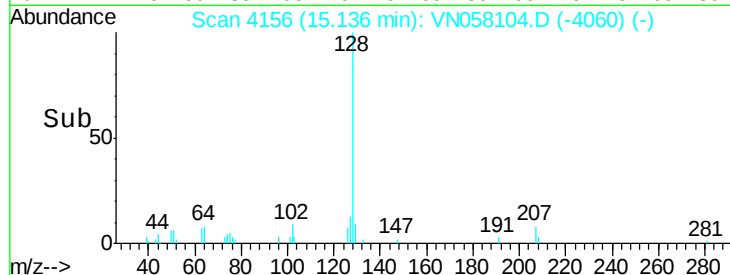
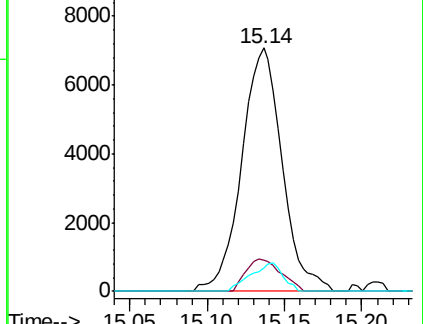
129 9.2 8.6 12.8



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



#96

1,2,3-Trichlorobenzene

Concen: 1.610 ug/l

RT: 15.30 min Scan# 4208

Delta R.T. 0.00 min

Lab File: VN058104.D

Acq: 16 Sep 2019 9:55

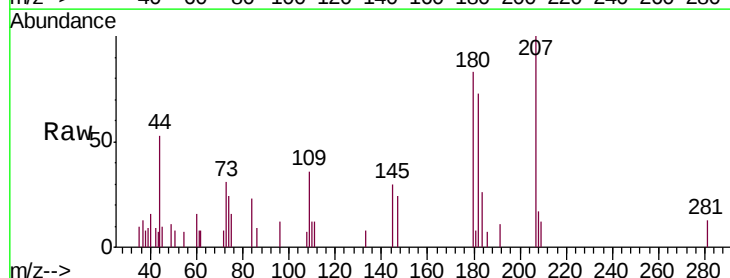
Tgt Ion:180 Resp: 3154

Ion Ratio Lower Upper

180 100

182 99.5 48.3 144.8

145 34.9 16.3 48.8



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

