

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW072419\  
 Data File : VW011454.D  
 Acq On : 24 Jul 2019 01:46  
 Operator : SY/VA  
 Sample : K3617-01  
 Misc : 5.76G/5ML/MSVOA W/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 NB-07-071919-A

Quant Time: Jul 24 06:42:01 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W070819S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jul 11 08:14:17 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 257574   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 432312   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 363572   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 150992   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |       |     |          |       |         |      |
|---------------------------|-------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31  | 65  | 163683   | 50.57 | ug/l    | 0.00 |
| Spiked Amount             |       |     |          |       |         |      |
|                           |       |     | Recovery | =     | 101.14% |      |
| 35) Dibromofluoromethane  | 7.88  | 113 | 130156   | 50.51 | ug/l    | 0.00 |
| Spiked Amount             |       |     |          |       |         |      |
|                           |       |     | Recovery | =     | 101.02% |      |
| 50) Toluene-d8            | 10.32 | 98  | 535323   | 51.40 | ug/l    | 0.00 |
| Spiked Amount             |       |     |          |       |         |      |
|                           |       |     | Recovery | =     | 102.80% |      |
| 62) 4-Bromofluorobenzene  | 12.62 | 95  | 177544   | 46.51 | ug/l    | 0.00 |
| Spiked Amount             |       |     |          |       |         |      |
|                           |       |     | Recovery | =     | 93.02%  |      |

## Target Compounds

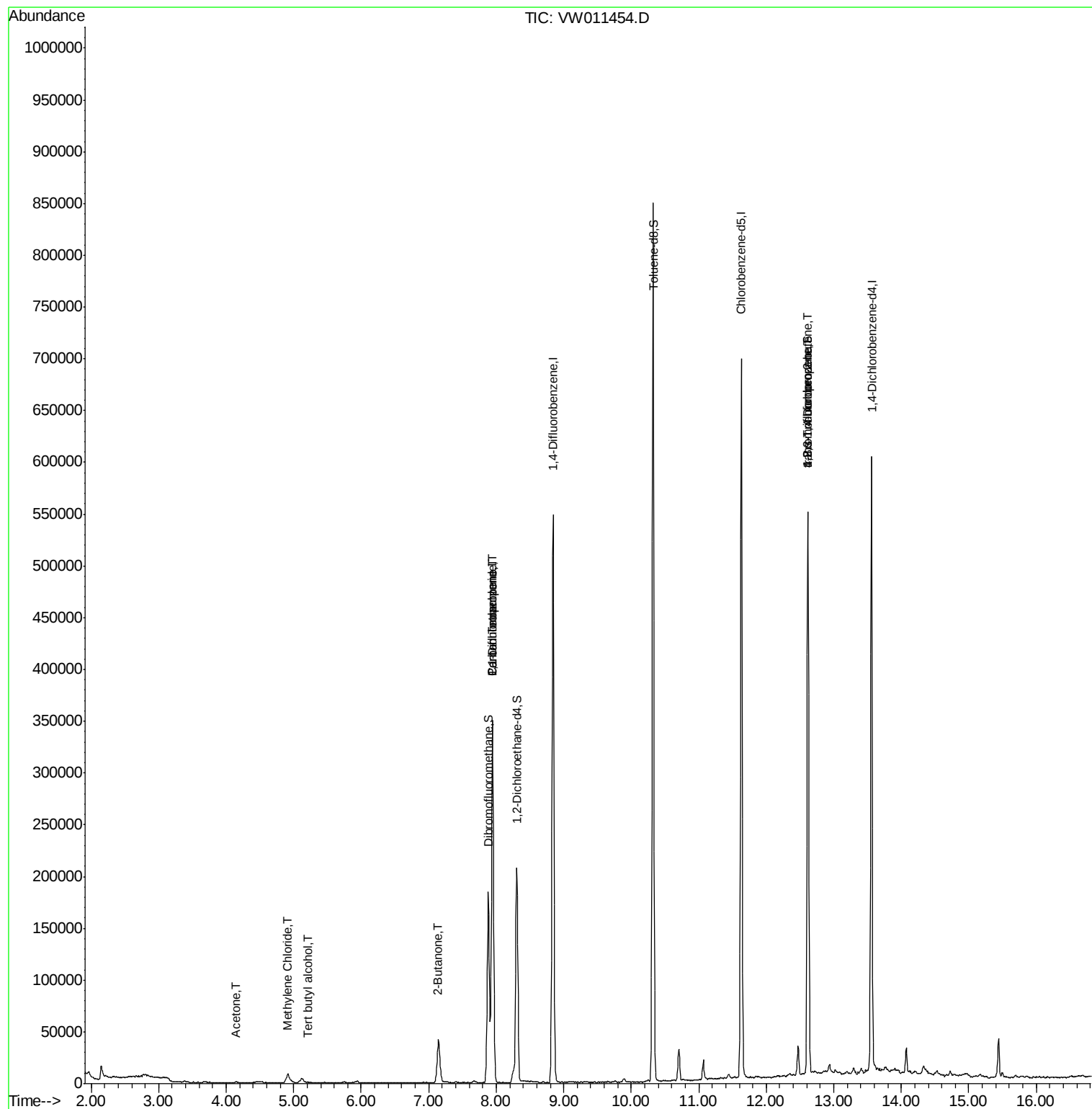
|                                |       |     |       |           | Qvalue |     |
|--------------------------------|-------|-----|-------|-----------|--------|-----|
| 11) Tert butyl alcohol         | 5.20  | 59  | 789   | 3.293     | ug/l # | 70  |
| 16) Acetone                    | 4.15  | 43  | 1398  | 1.795     | ug/l # | 76  |
| 18) Methyl Acetate             | 4.67  | 43  | 165   | Below Cal | #      | 57  |
| 20) Methylene Chloride         | 4.90  | 84  | 6013  | 1.957     | ug/l   | 89  |
| 25) 2-Butanone                 | 7.13  | 43  | 2739  | 2.241     | ug/l # | 80  |
| 36) 1,1-Dichloropropene        | 7.95  | 75  | 22042 | 4.788     | ug/l # | 52  |
| 38) Carbon Tetrachloride       | 7.95  | 117 | 26110 | 6.690     | ug/l # | 15  |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75  | 92285 | 52.888    | ug/l # | 100 |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75  | 92285 | 119.623   | ug/l # | 6   |

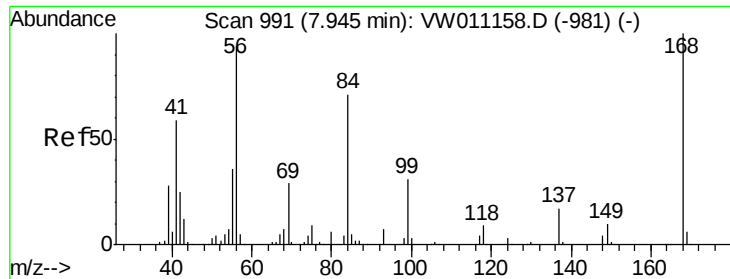
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 24 06:42:01 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W070819S.M  
Quant Title : SW846 8260  
QLast Update : Thu Jul 11 08:14:17 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW011454.D

Acq: 24 Jul 2019 01:46

Instrument :

MSVOA\_W

ClientSampleId :

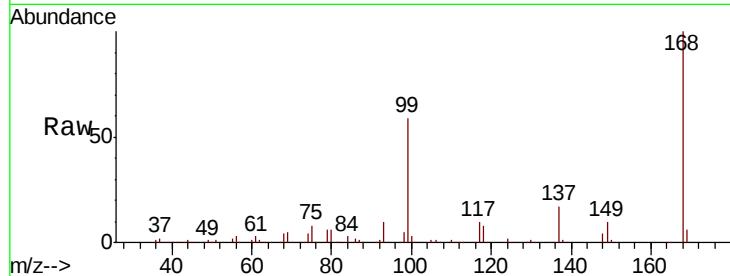
NB-07-071919-A

Tot Ion:168 Resp: 257574

Ion Ratio Lower Upper

168 100

99 58.6 50.1 75.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

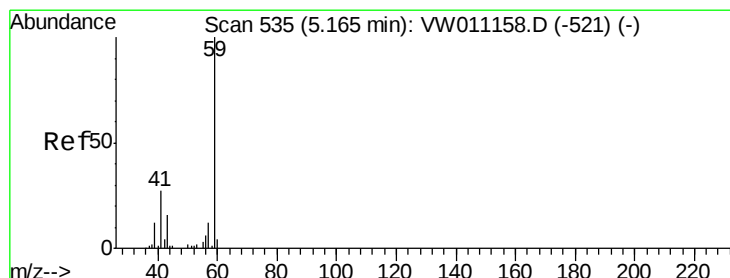
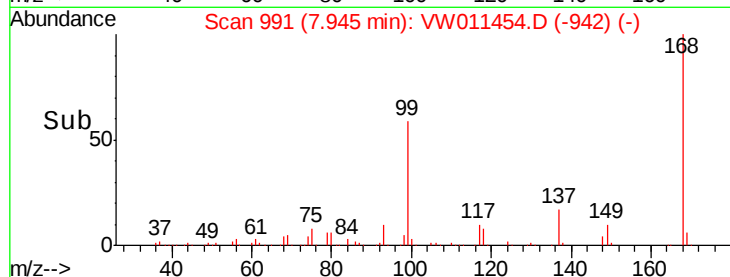
7.95

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#11

Tert butyl alcohol

Concen: 3.293 ug/l

RT: 5.20 min Scan# 541

Delta R.T. 0.04 min

Lab File: VW011454.D

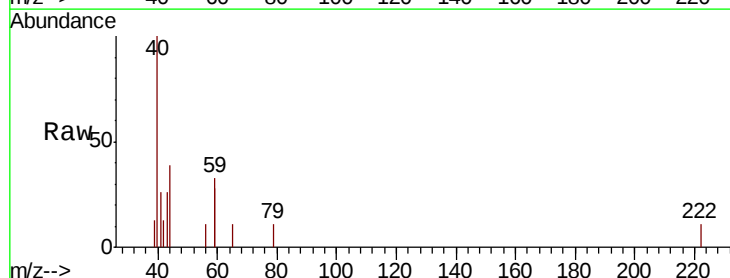
Acq: 24 Jul 2019 01:46

Tgt Ion: 59 Resp: 789

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.6#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

800

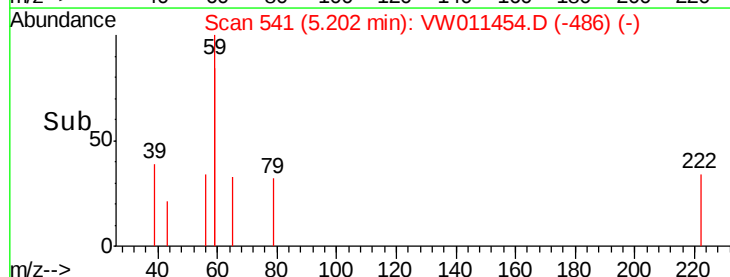
600

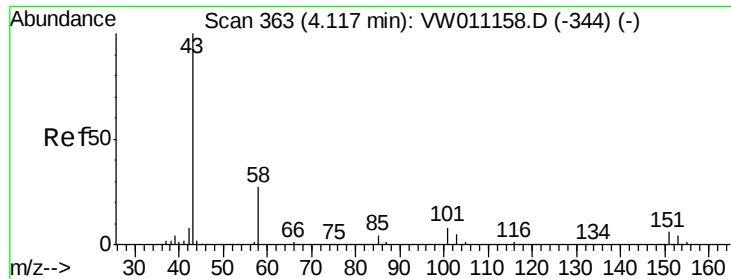
400

200

0

Time--> 5.15 5.20 5.25 5.30





#16

Acetone

Concen: 1.795 ug/l

RT: 4.15 min Scan# 368

Delta R.T. 0.03 min

Lab File: VW011454.D

Acq: 24 Jul 2019 01:46

Instrument :

MSVOA\_W

ClientSampleId :

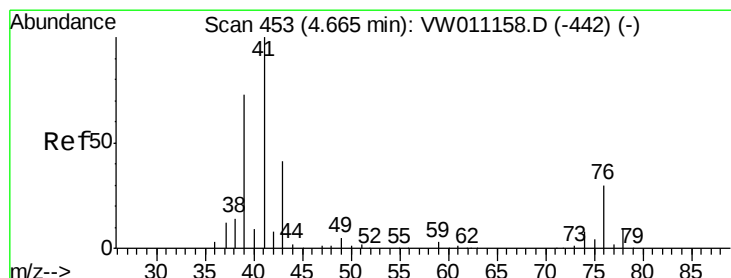
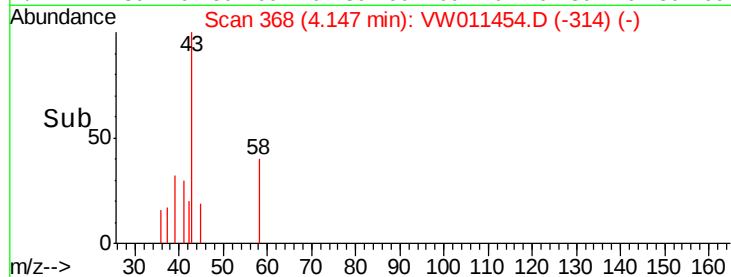
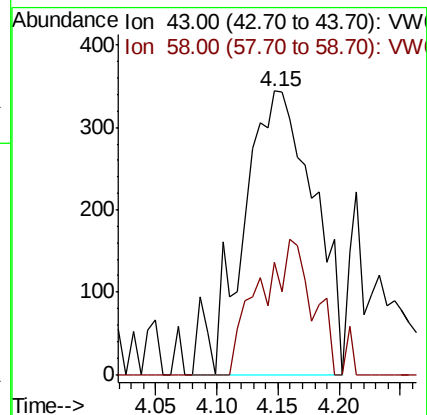
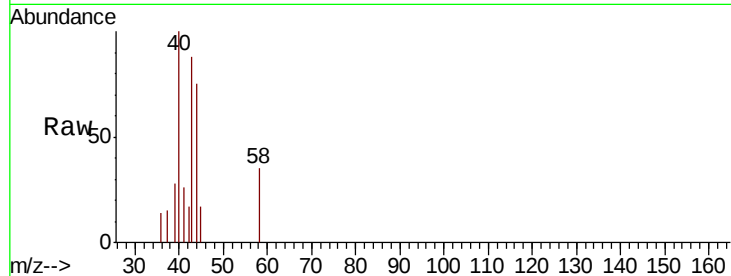
NB-07-071919-A

Tot Ion: 43 Resp: 1398

Ion Ratio Lower Upper

43 100

58 39.5 21.8 32.6#



#18

Methyl Acetate

Concen: Below Cal

RT: 4.67 min Scan# 453

Delta R.T. 0.00 min

Lab File: VW011454.D

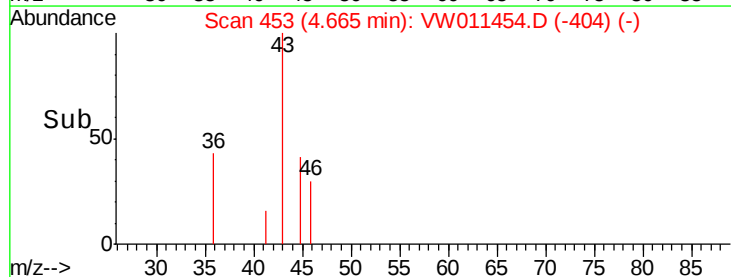
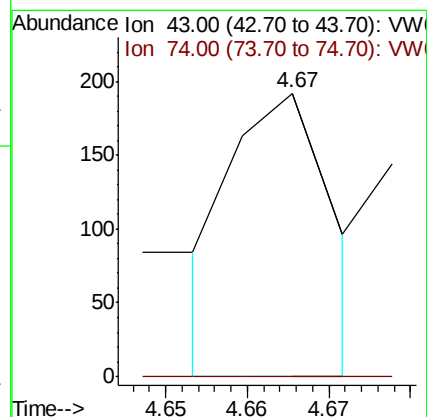
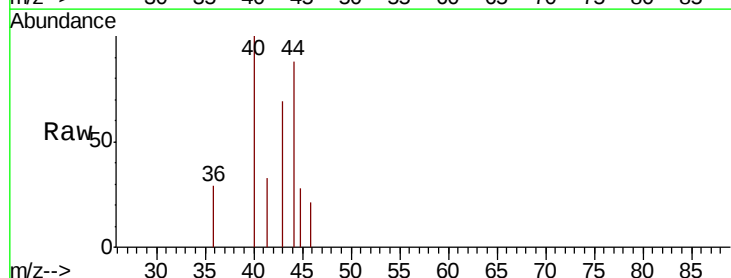
Acq: 24 Jul 2019 01:46

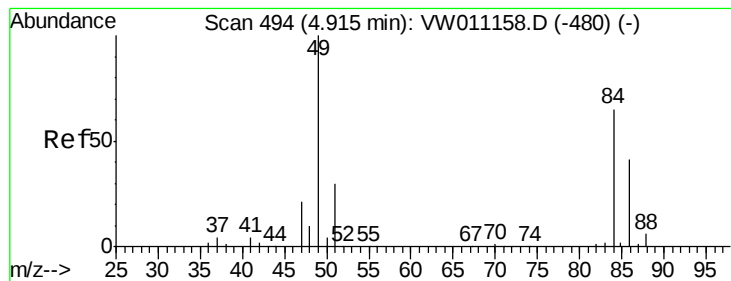
Tgt Ion: 43 Resp: 165

Ion Ratio Lower Upper

43 100

74 0.0 15.7 23.5#





#20

Methvlene Chloride

Concen: 1.957 ug/l

RT: 4.90 min Scan# 492

Delta R.T. -0.01 min

Lab File: VW011454.D

Acq: 24 Jul 2019 01:46

Instrument :

MSVOA\_W

ClientSampleId :

NB-07-071919-A

Tot Ion: 84 Resp: 6013

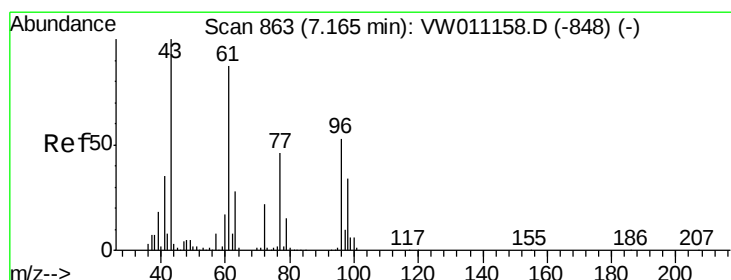
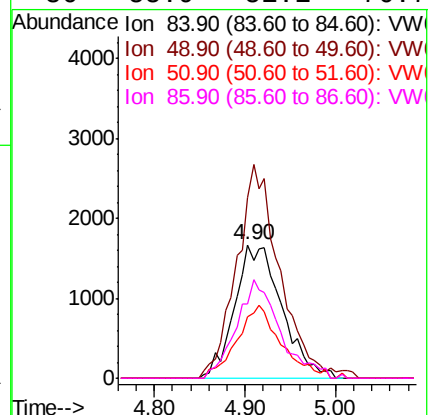
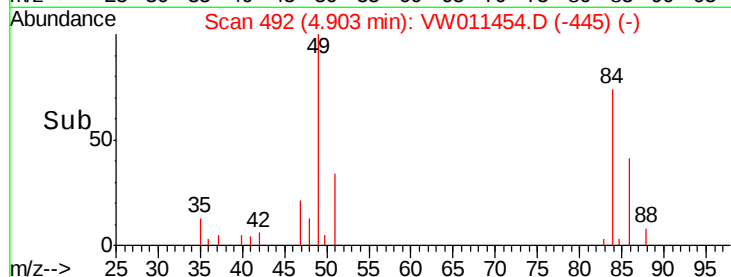
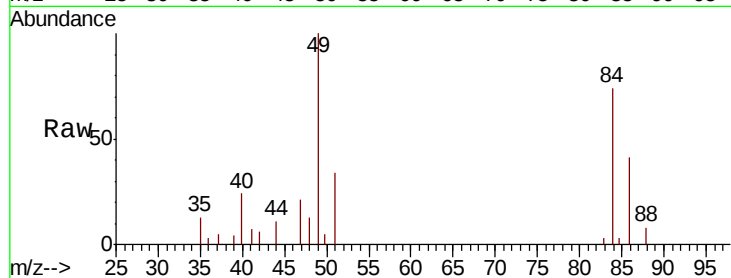
Ion Ratio Lower Upper

84 100

49 135.4 123.8 185.6

51 45.9 37.4 56.2

86 55.9 51.1 76.7



#25

2-Butanone

Concen: 2.241 ug/l

RT: 7.13 min Scan# 858

Delta R.T. -0.03 min

Lab File: VW011454.D

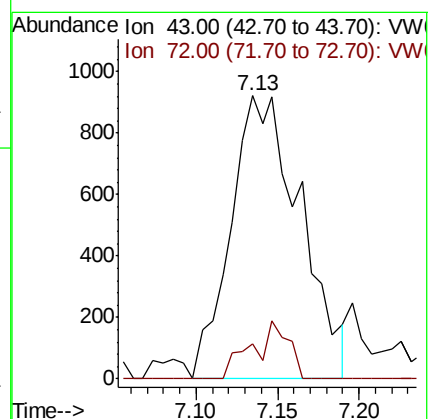
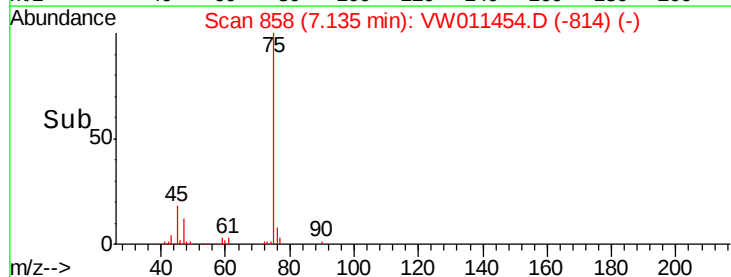
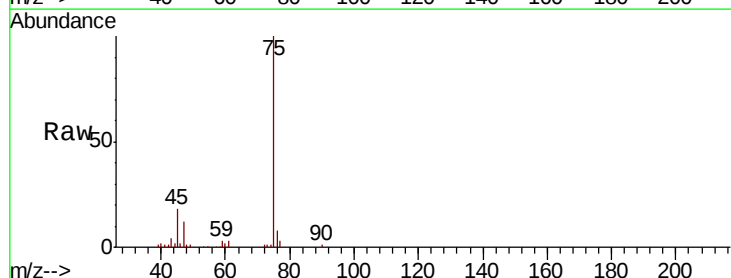
Acq: 24 Jul 2019 01:46

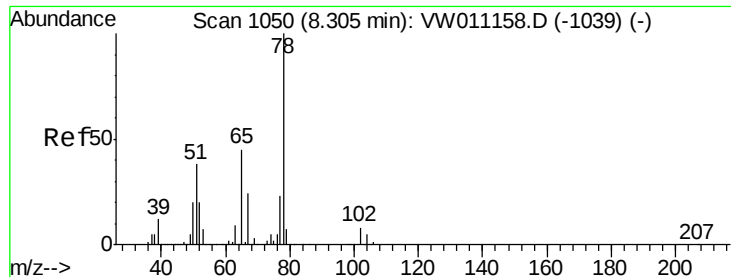
Tgt Ion: 43 Resp: 2739

Ion Ratio Lower Upper

43 100

72 12.4 17.6 26.4#

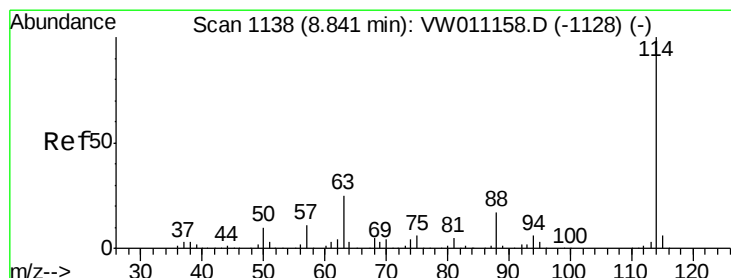
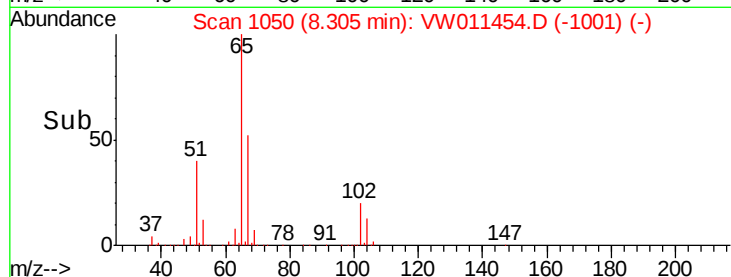
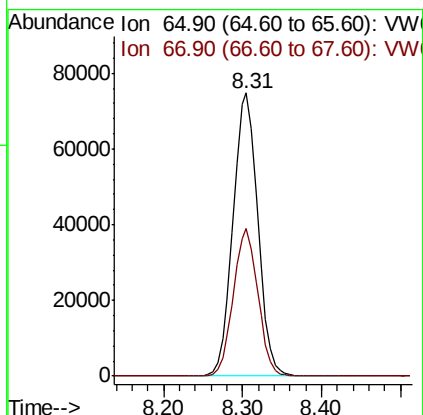
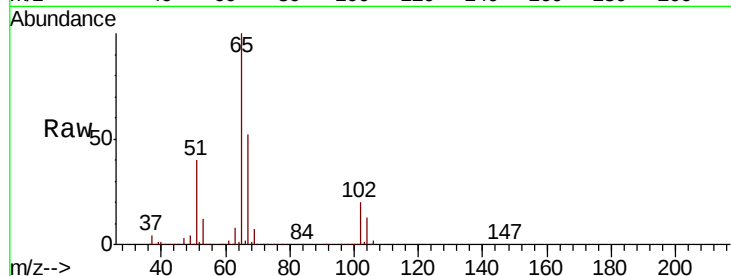




#33  
 1,2-Dichloroethane-d4  
 Concen: 50.574 ug/l  
 RT: 8.31 min Scan# 1050  
 Delta R.T. 0.00 min  
 Lab File: VW011454.D  
 Acq: 24 Jul 2019 01:46

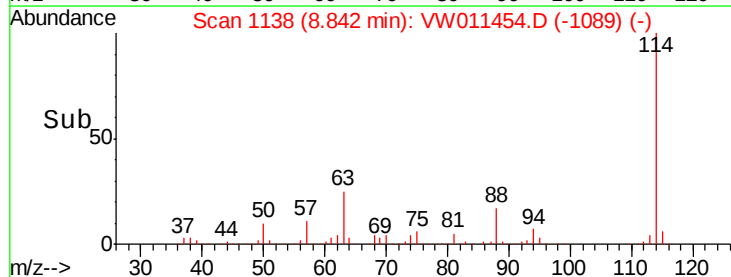
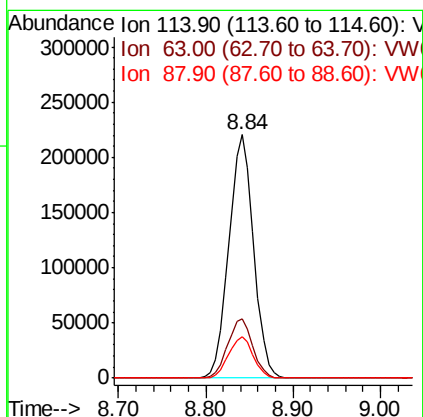
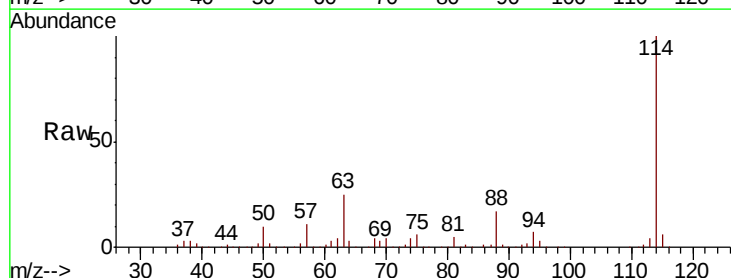
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 NB-07-071919-A

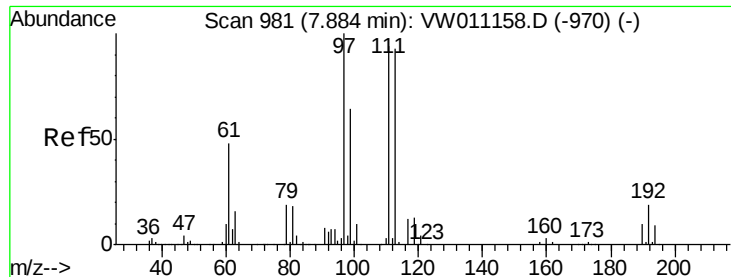
Tot Ion: 65 Resp: 163683  
 Ion Ratio Lower Upper  
 65 100  
 67 51.9 0.0 104.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. 0.00 min  
 Lab File: VW011454.D  
 Acq: 24 Jul 2019 01:46

Tgt Ion: 114 Resp: 432312  
 Ion Ratio Lower Upper  
 114 100  
 63 24.5 0.0 50.8  
 88 17.1 0.0 34.2

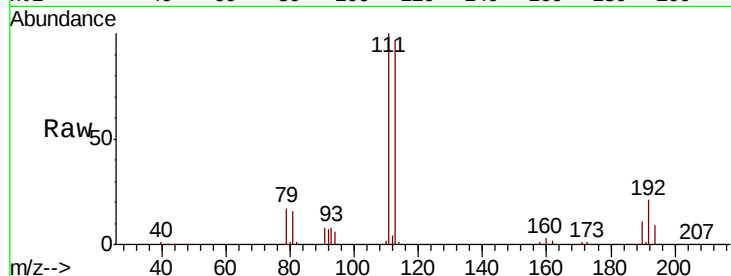




#35  
 Dibromofluoromethane  
 Concen: 50.511 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. 0.00 min  
 Lab File: VW011454.D  
 Acq: 24 Jul 2019 01:46

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 NB-07-071919-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.6 | 82.4  | 123.6 |
| 192     | 20.8  | 15.8  | 23.8  |

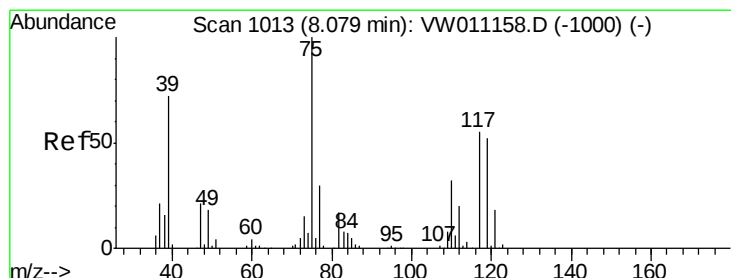
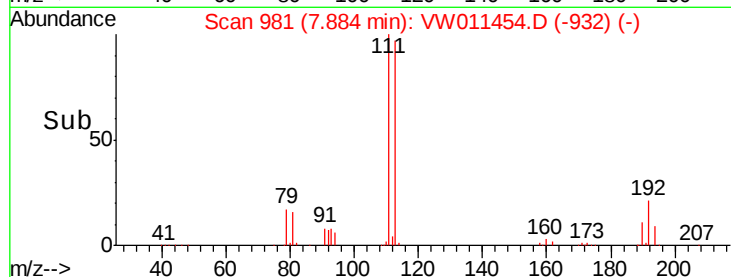
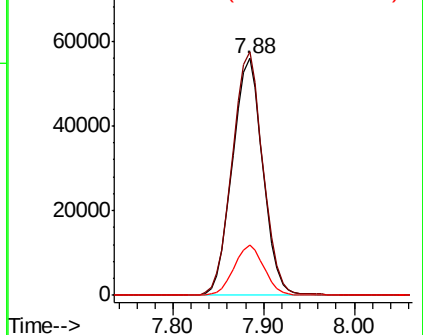


Abundance

Ion 112.80 (112.50 to 113.50): V

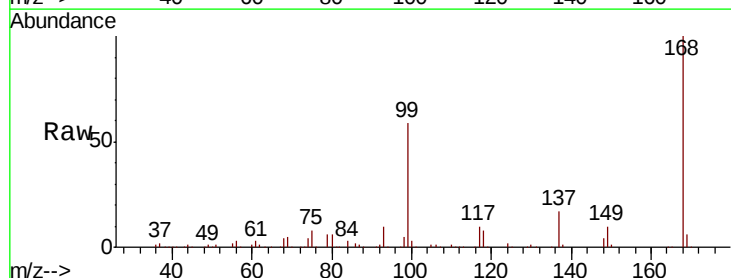
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36  
 1,1-Dichloropropene  
 Concen: 4.788 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.13 min  
 Lab File: VW011454.D  
 Acq: 24 Jul 2019 01:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.8   | 15.9  | 47.6# |
| 77      | 0.1   | 24.6  | 36.8# |

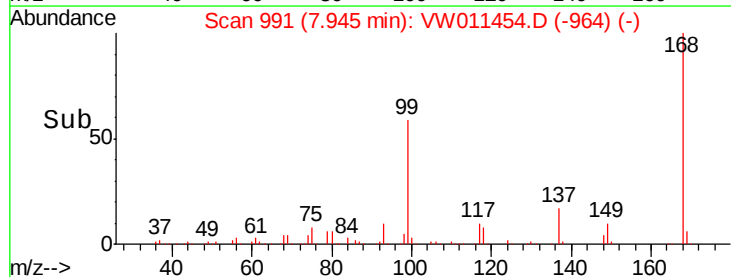
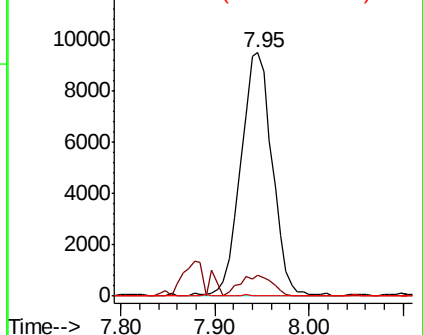


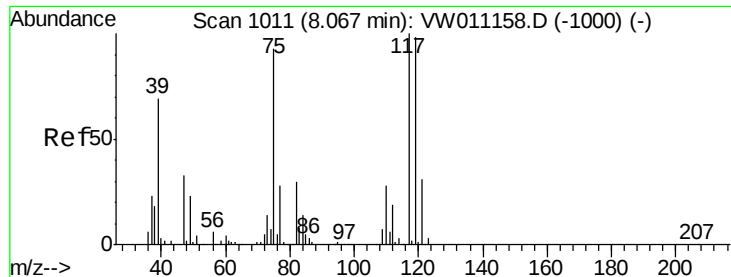
Abundance

Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#38

Carbon Tetrachloride

Concen: 6.690 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW011454.D

Acq: 24 Jul 2019 01:46

Instrument :

MSVOA\_W

ClientSampleId :

NB-07-071919-A

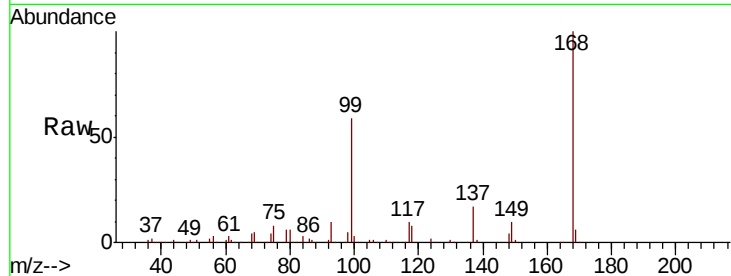
Tot Ion:117 Resp: 26110

Ion Ratio Lower Upper

117 100

119 4.3 78.1 117.1#

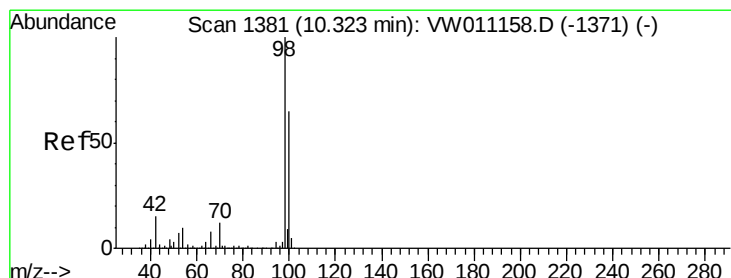
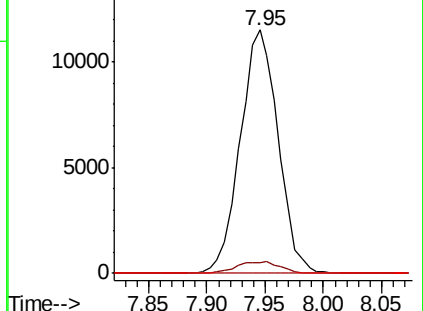
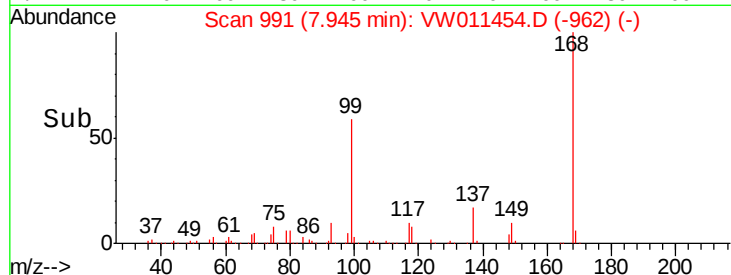
121 0.0 25.1 37.7#



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



#50

Toluene-d8

Concen: 51.396 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW011454.D

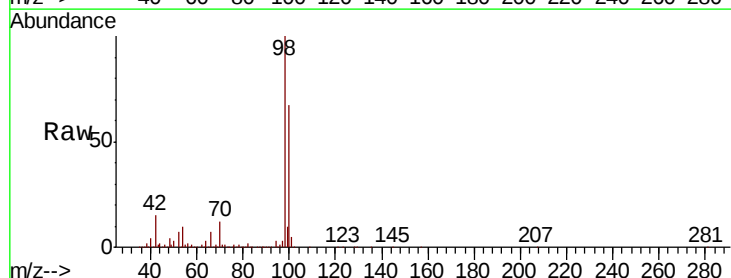
Acq: 24 Jul 2019 01:46

Tgt Ion: 98 Resp: 535323

Ion Ratio Lower Upper

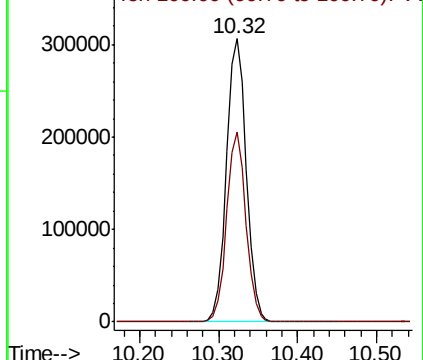
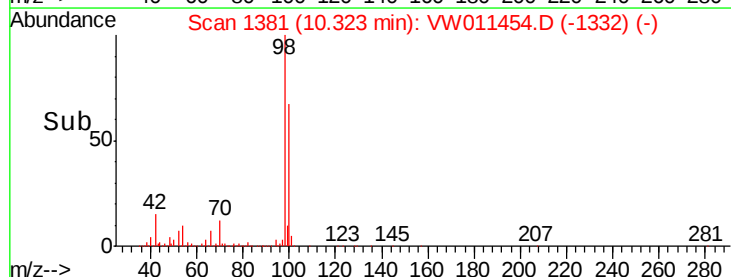
98 100

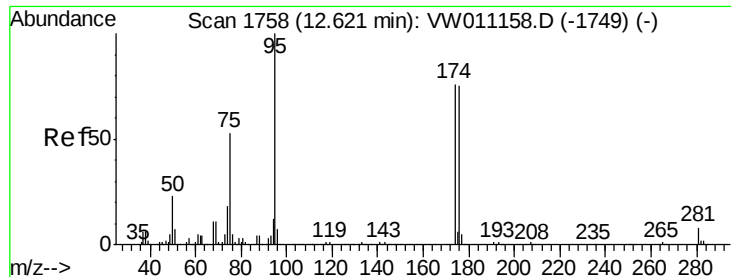
100 65.0 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

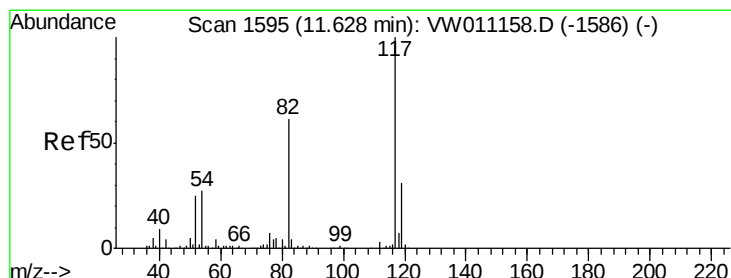
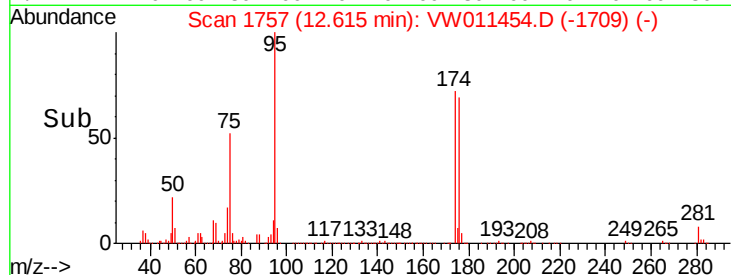
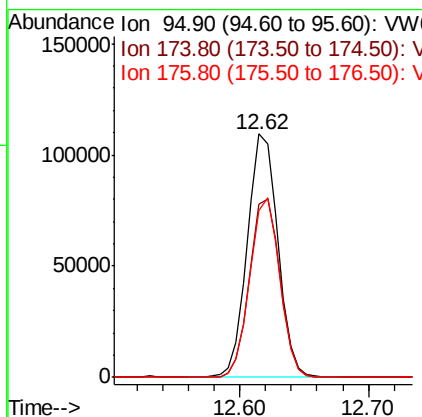
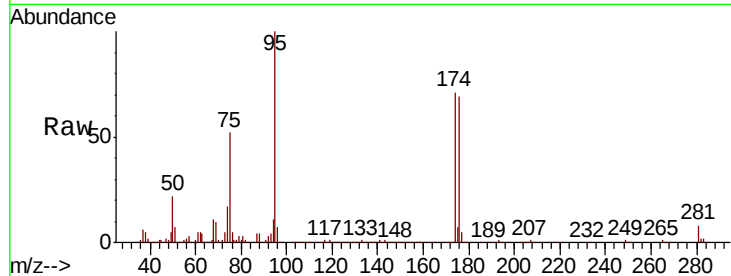




#62  
4-Bromofluorobenzene  
Concen: 46.505 ug/l  
RT: 12.62 min Scan# 1757  
Delta R.T. -0.01 min  
Lab File: VW011454.D  
Acq: 24 Jul 2019 01:46

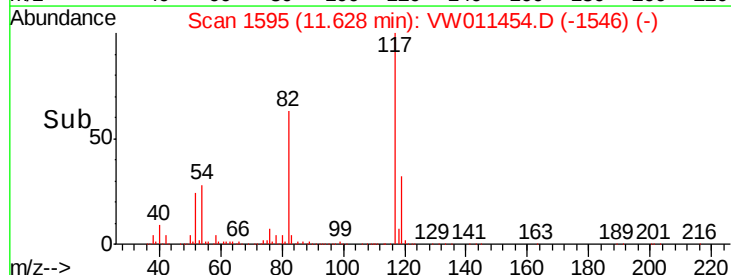
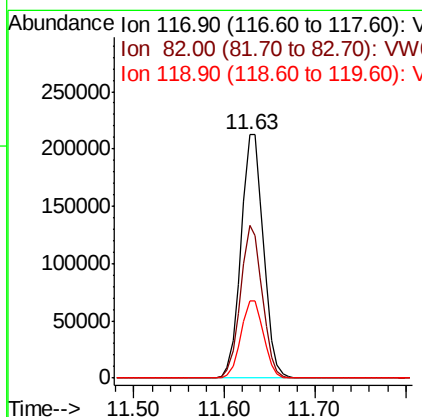
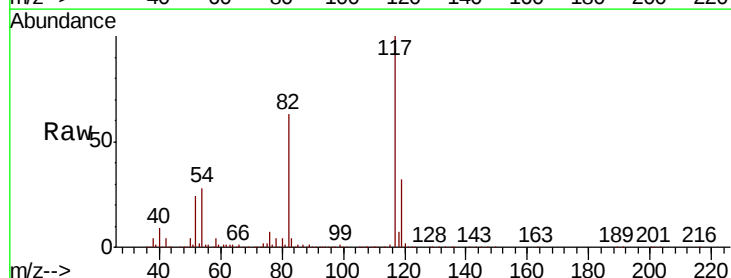
Instrument :  
MSVOA\_W  
ClientSampleId :  
NB-07-071919-A

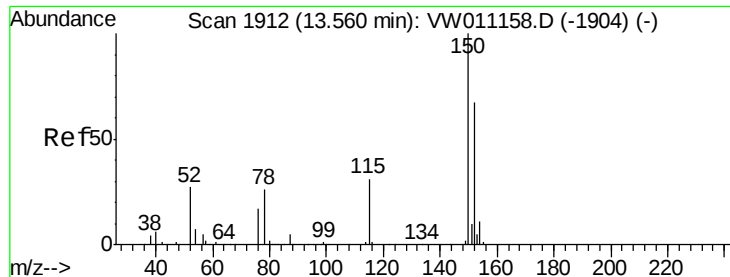
Tot Ion: 95 Resp: 177544  
Ion Ratio Lower Upper  
95 100  
174 74.0 0.0 147.6  
176 72.7 0.0 144.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1595  
Delta R.T. 0.00 min  
Lab File: VW011454.D  
Acq: 24 Jul 2019 01:46

Tgt Ion: 117 Resp: 363572  
Ion Ratio Lower Upper  
117 100  
82 62.9 48.9 73.3  
119 31.8 25.0 37.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW011454.D

Acq: 24 Jul 2019 01:46

Instrument :

MSVOA\_W

ClientSampleId :

NB-07-071919-A

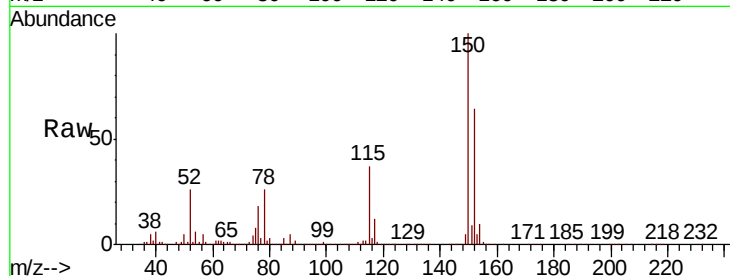
Tot Ion:152 Resp: 150992

Ion Ratio Lower Upper

152 100

115 60.0 30.1 90.3

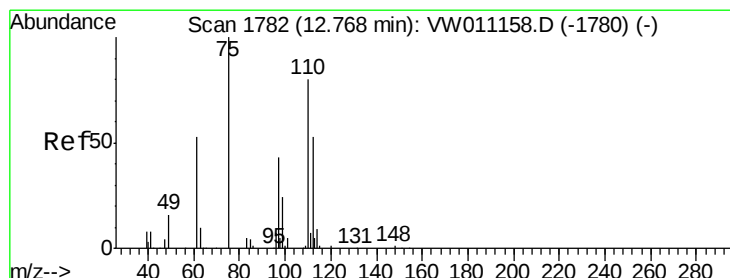
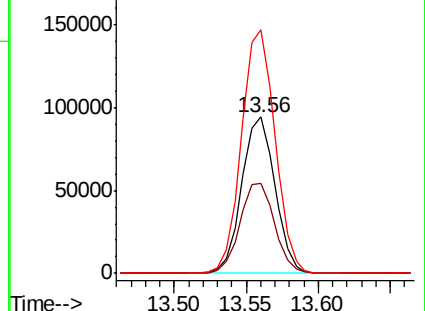
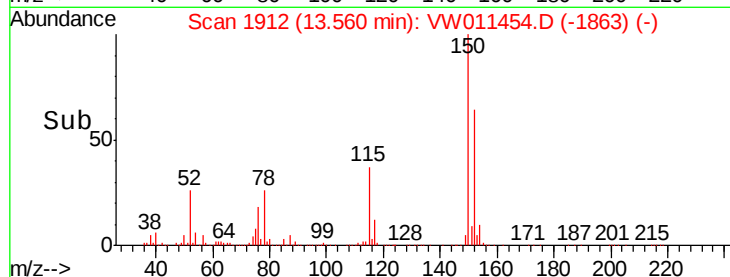
150 157.2 0.0 346.0



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: 52.888 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW011454.D

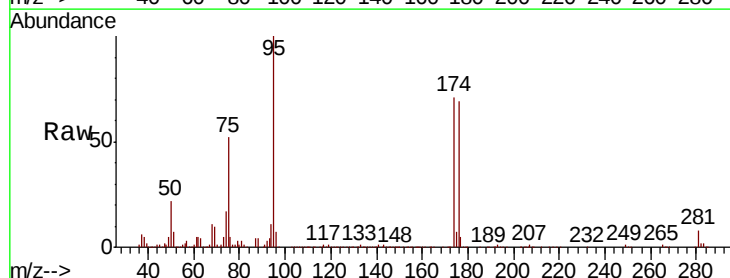
Acq: 24 Jul 2019 01:46

Tgt Ion: 75 Resp: 92285

Ion Ratio Lower Upper

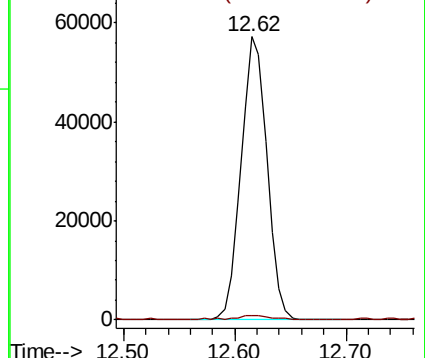
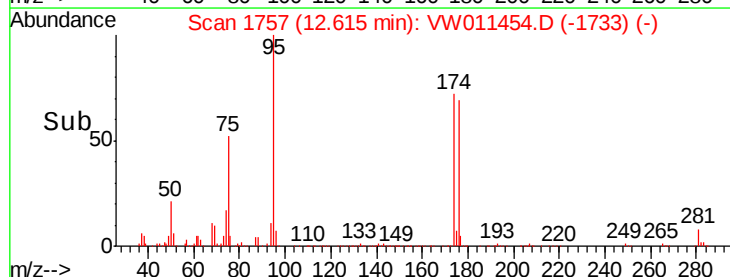
75 100

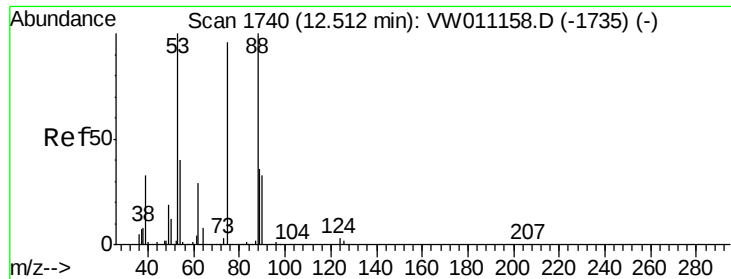
77 1.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 119.623 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW011454.D

Acq: 24 Jul 2019 01:46

Instrument :

MSVOA\_W

ClientSampleId :

NB-07-071919-A

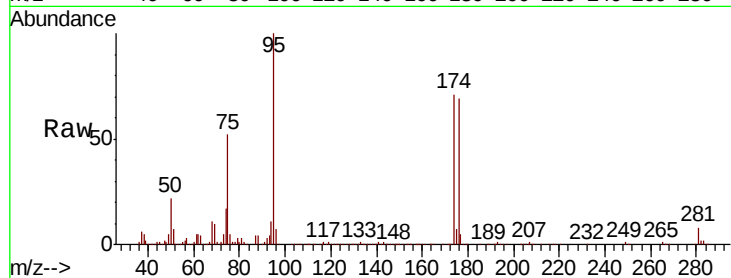
Tot Ion: 75 Resp: 92285

Ion Ratio Lower Upper

75 100

53 0.1 89.8 134.6#

89 0.0 34.3 51.5#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

