

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031819\  
 Data File : VN054383.D  
 Acq On : 18 Mar 2019 10:20  
 Operator : JC/SP  
 Sample : K1960-05  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Mar 19 05:08:28 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N031219W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 13 03:33:31 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.66  | 168  | 1842062  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 2610756  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 2144992  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 739173   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.03  | 65   | 888737   | 45.43 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 90.86% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 807530   | 47.96 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.92% |          |
| 50) Toluene-d8              | 10.09 | 98   | 2988142  | 48.05 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.10% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 869239   | 39.95 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 79.90% |          |

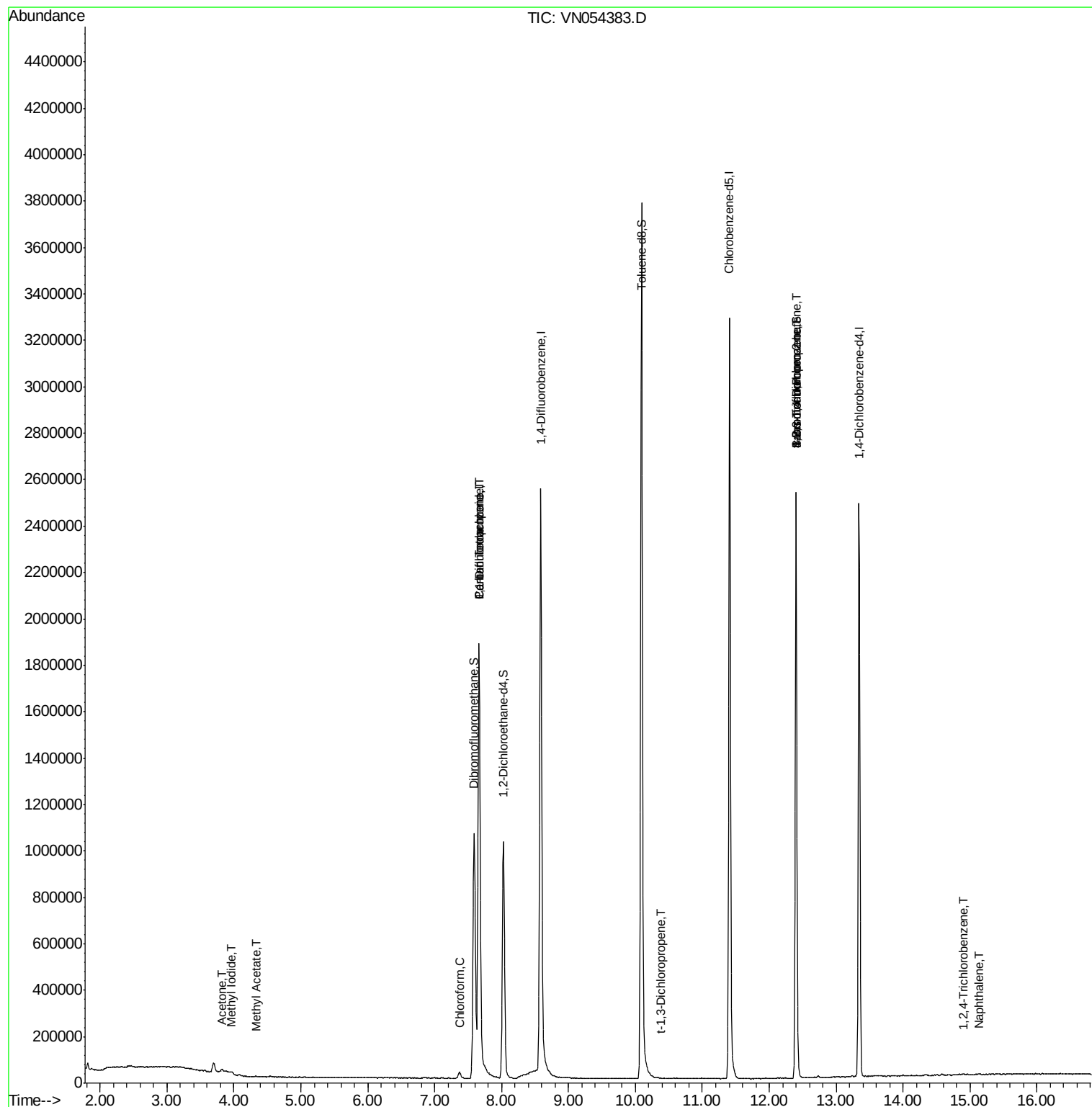
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 10) Methyl Iodide              | 3.95  | 142  | 201      | 1.504     | ug/l # | 45     |
| 16) Acetone                    | 3.82  | 43   | 19185    | 3.425     | ug/l   | 88     |
| 18) Methyl Acetate             | 4.34  | 43   | 2649     | 0.234     | ug/l   | 97     |
| 30) Chloroform                 | 7.37  | 83   | 28873    | 0.879     | ug/l   | 94     |
| 31) Cyclohexane                | 7.66  | 56   | 28751    | Below Cal | #      | 5      |
| 36) 1,1-Dichloropropene        | 7.66  | 75   | 108438   | 4.510     | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 7.66  | 117  | 151063   | 5.991     | ug/l # | 16     |
| 53) t-1,3-Dichloropropene      | 10.38 | 75   | 194      | 1.993     | ug/l # | 1      |
| 71) Bromoform                  | 12.40 | 173  | 5544     | 2.756     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 417298   | 38.390    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 417298   | 131.235   | ug/l # | 11     |
| 93) 1,2,4-Trichlorobenzene     | 14.90 | 180  | 961      | 2.575     | ug/l # | 73     |
| 95) Naphthalene                | 15.14 | 128  | 3122     | 3.559     | ug/l # | 87     |

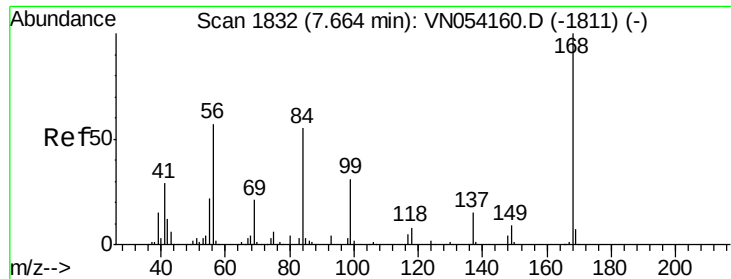
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN031819\  
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ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Mar 19 05:08:28 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N031219W.M  
Quant Title : SW846 8260  
QLast Update : Wed Mar 13 03:33:31 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: VN054383.D

Acq: 18 Mar 2019 10:20

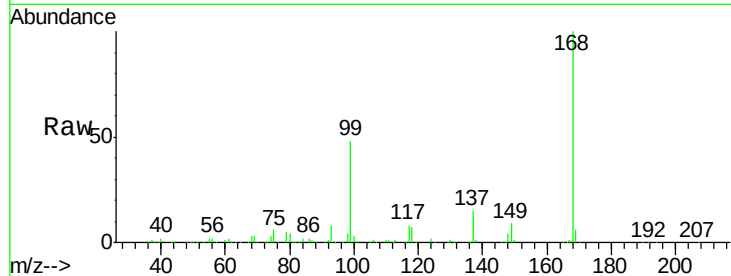
Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion:168 Resp: 1842062

Ion Ratio Lower Upper

168 100

99 48.0 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

800000

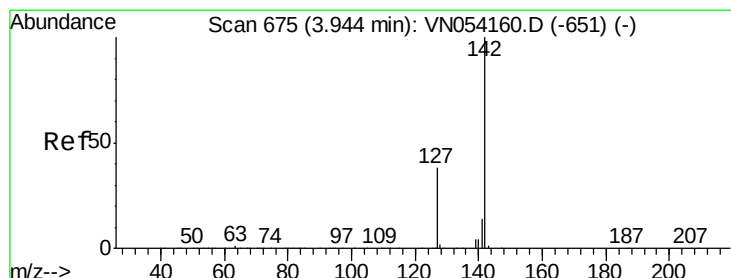
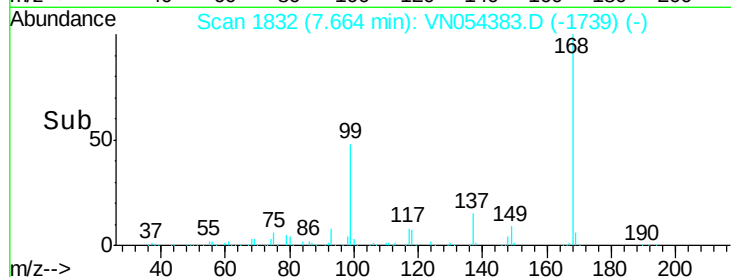
600000

400000

200000

0

Time-->



#10

Methyl Iodide

Concen: 1.504 ug/l

RT: 3.95 min Scan# 676

Delta R.T. 0.00 min

Lab File: VN054383.D

Acq: 18 Mar 2019 10:20

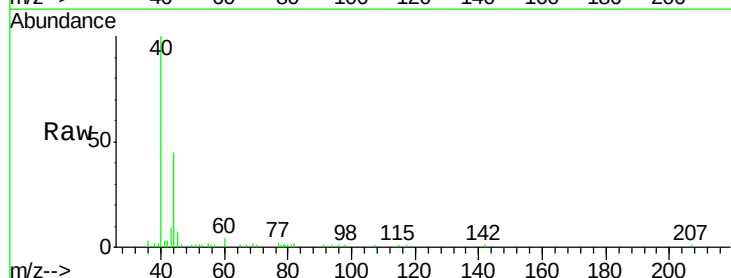
Tgt Ion:142 Resp: 201

Ion Ratio Lower Upper

142 100

127 0.0 30.3 45.5#

141 0.0 11.2 16.8#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

3.95

400

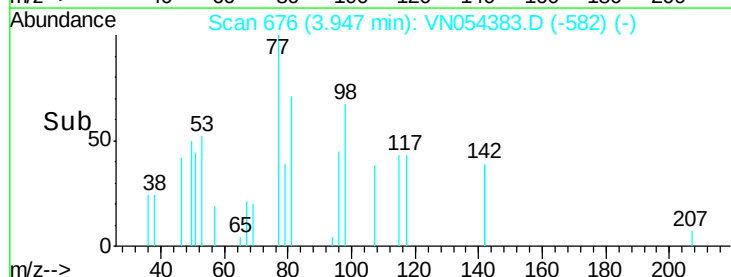
300

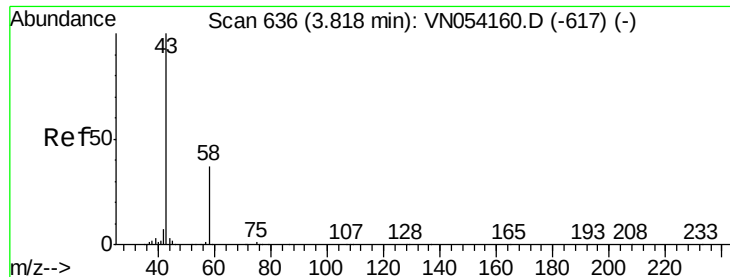
200

100

0

Time-->





#16

Acetone

Concen: 3.425 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN054383.D

Acq: 18 Mar 2019 10:20

Instrument :

MSVOA\_N

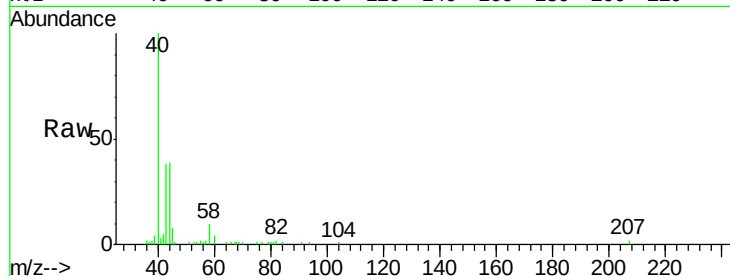
ClientSampleId :

Tot Ion: 43 Resp: 19185

Ion Ratio Lower Upper

43 100

58 30.3 29.9 44.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.82

10000

8000

6000

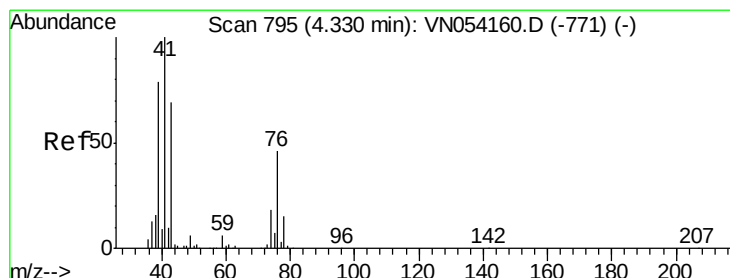
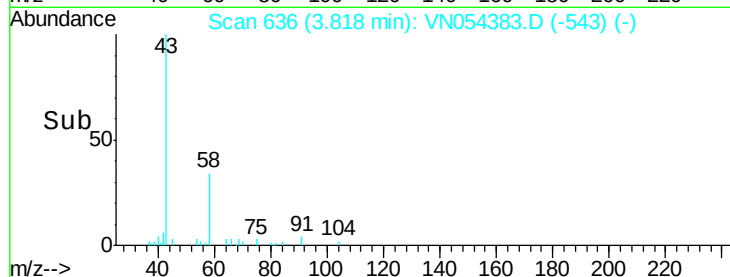
4000

2000

0

Time-->

3.75 3.80 3.85 3.90



#18

Methyl Acetate

Concen: 0.234 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN054383.D

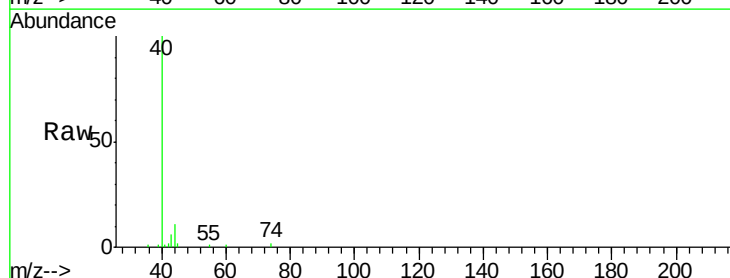
Acq: 18 Mar 2019 10:20

Tgt Ion: 43 Resp: 2649

Ion Ratio Lower Upper

43 100

74 24.4 20.8 31.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.34

1500

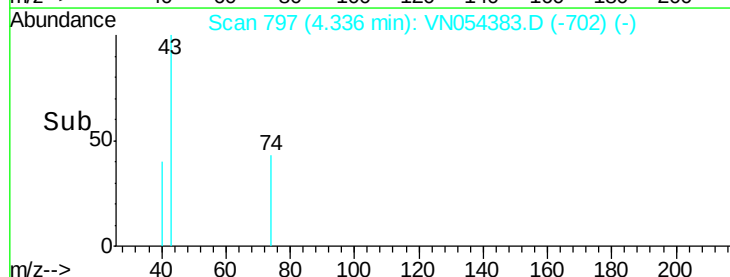
1000

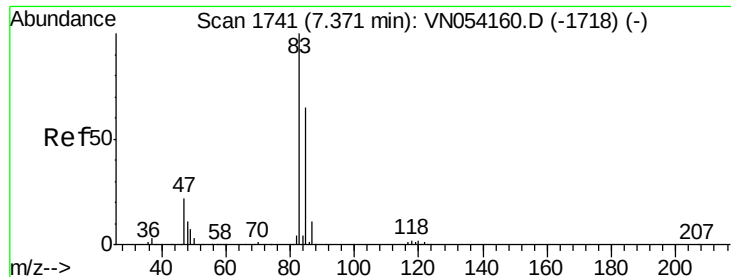
500

0

Time-->

4.30 4.35 4.40

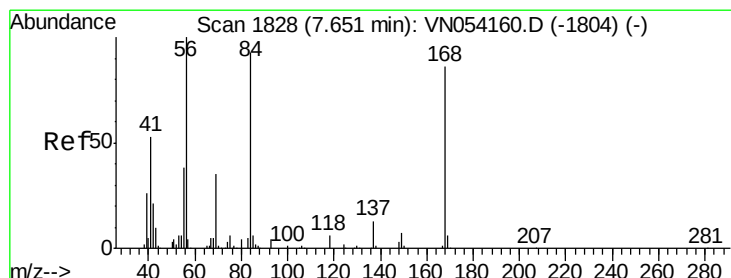
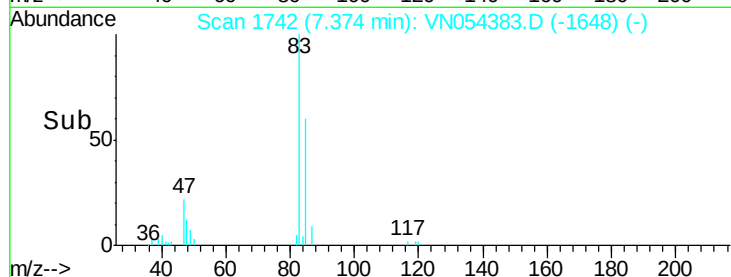
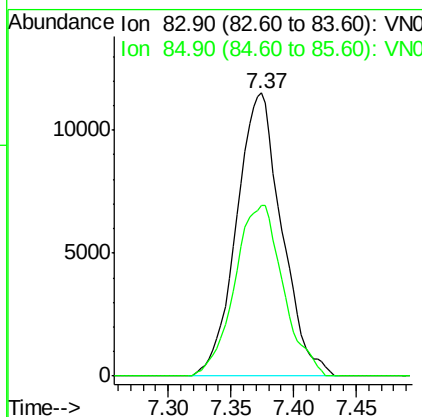
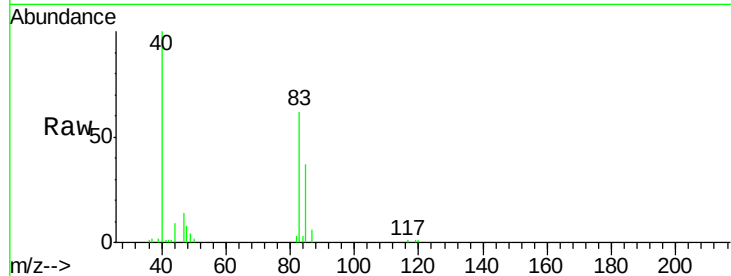




#30  
Chloroform  
Concen: 0.879 ug/l  
RT: 7.37 min Scan# 1742  
Delta R.T. 0.00 min  
Lab File: VN054383.D  
Acq: 18 Mar 2019 10:20

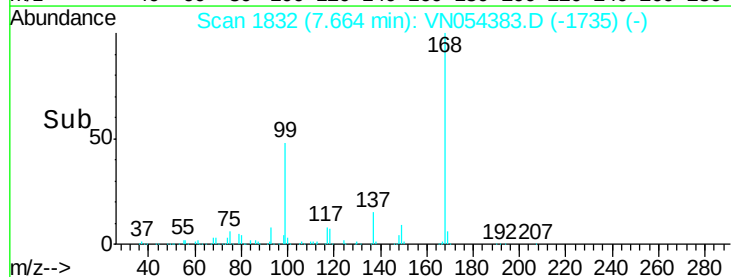
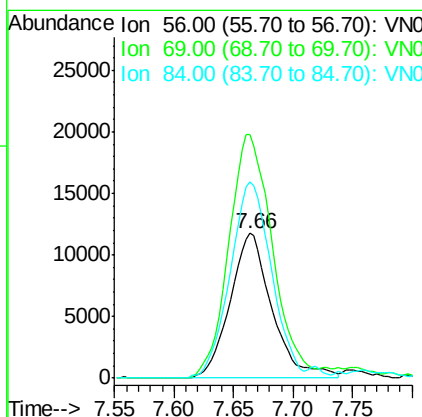
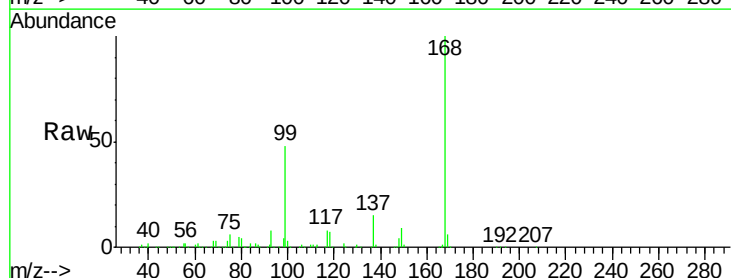
Instrument :  
MSVOA\_N  
ClientSampled :

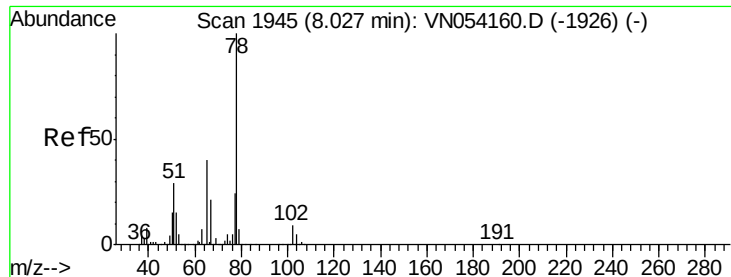
Tot Ion: 83 Resp: 28873  
Ion Ratio Lower Upper  
83 100  
85 60.2 52.2 78.4



#31  
Cyclohexane  
Concen: Below Cal  
RT: 7.66 min Scan# 1832  
Delta R.T. 0.01 min  
Lab File: VN054383.D  
Acq: 18 Mar 2019 10:20

Tgt Ion: 56 Resp: 28751  
Ion Ratio Lower Upper  
56 100  
69 168.3 27.8 41.6#  
84 135.4 74.6 111.8#

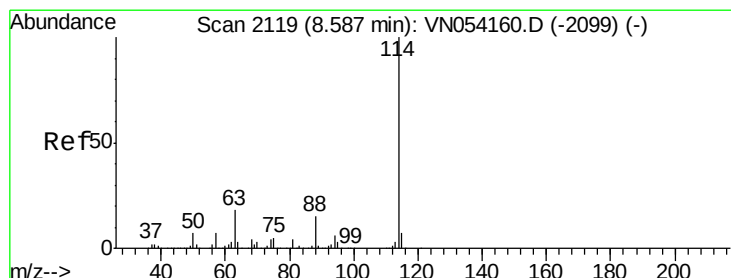
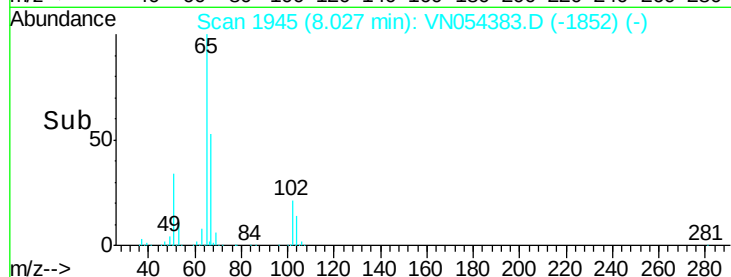
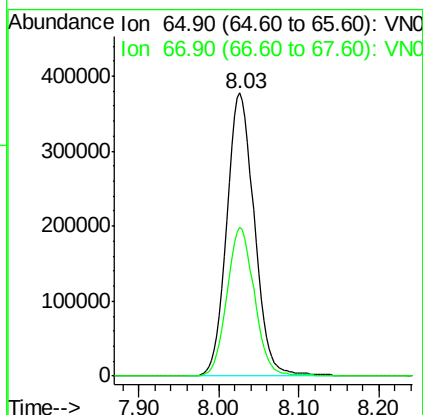
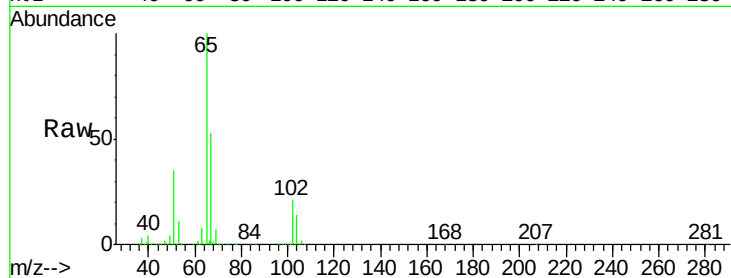




#33  
 1,2-Dichloroethane-d4  
 Concen: 45.430 ug/l  
 RT: 8.03 min Scan# 1945  
 Delta R.T. -0.00 min  
 Lab File: VN054383.D  
 Acq: 18 Mar 2019 10:20

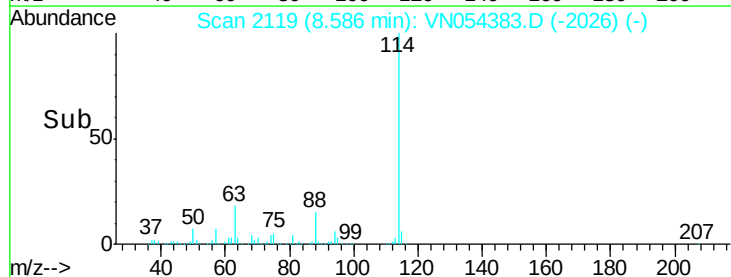
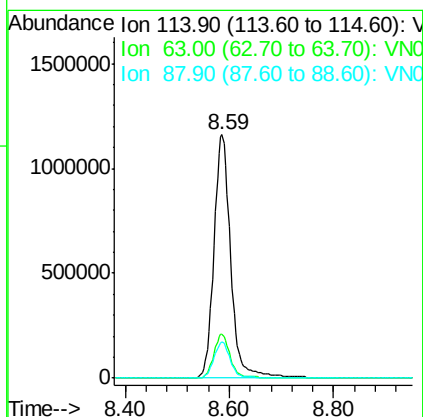
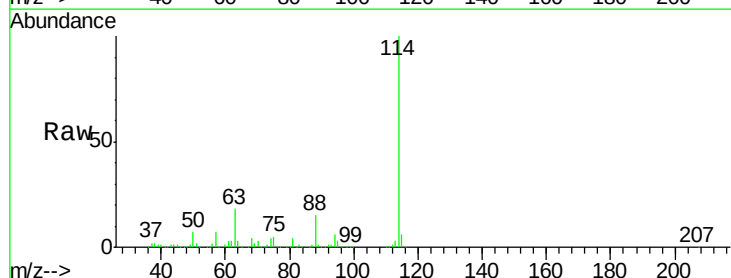
Instrument :  
 MSVOA\_N  
 ClientSampleId :

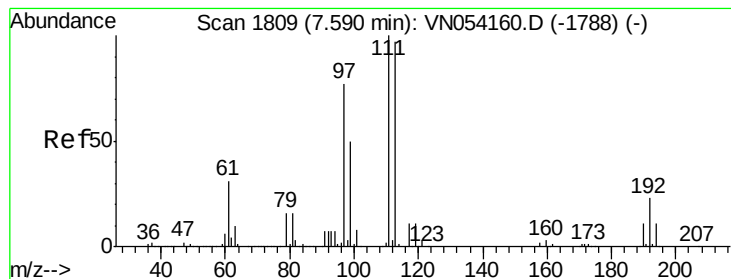
Tot Ion: 65 Resp: 888737  
 Ion Ratio Lower Upper  
 65 100  
 67 52.1 0.0 104.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. -0.00 min  
 Lab File: VN054383.D  
 Acq: 18 Mar 2019 10:20

Tgt Ion: 114 Resp: 2610756  
 Ion Ratio Lower Upper  
 114 100  
 63 17.9 0.0 35.2  
 88 14.7 0.0 30.2





#35

Dibromofluoromethane

Concen: 47.958 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN054383.D

Acq: 18 Mar 2019 10:20

Instrument :  
MSVOA\_N  
ClientSampleId :

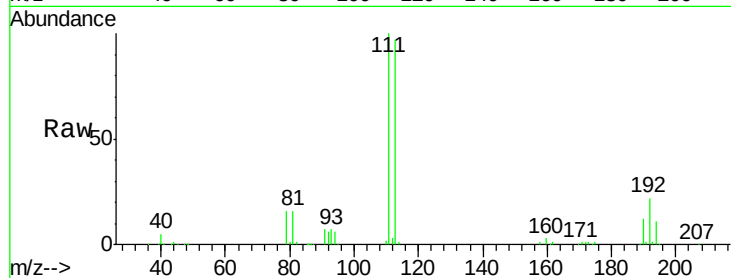
Tot Ion:113 Resp: 807530

Ion Ratio Lower Upper

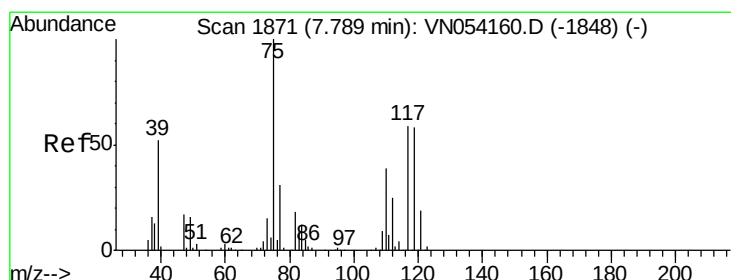
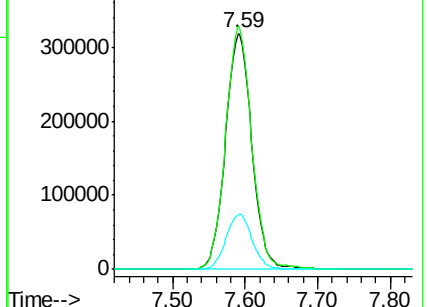
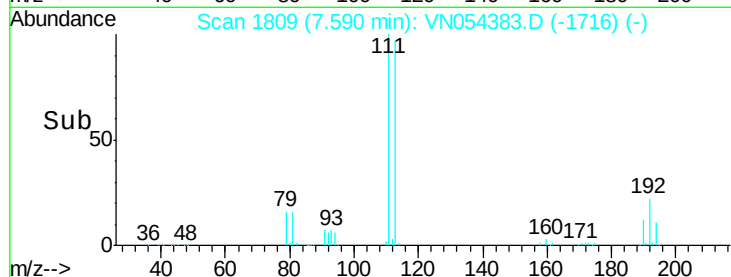
113 100

111 102.1 82.2 123.4

192 23.1 19.2 28.8



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: 4.510 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN054383.D

Acq: 18 Mar 2019 10:20

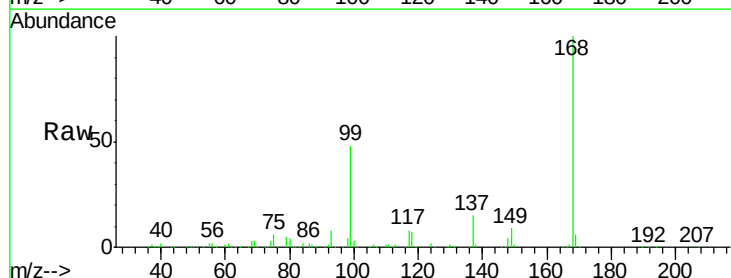
Tgt Ion: 75 Resp: 108438

Ion Ratio Lower Upper

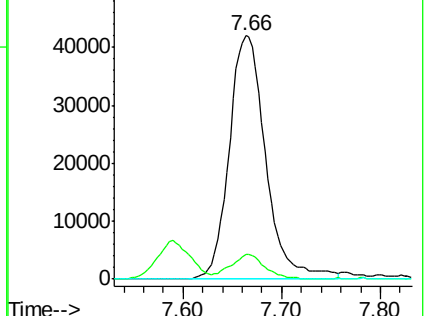
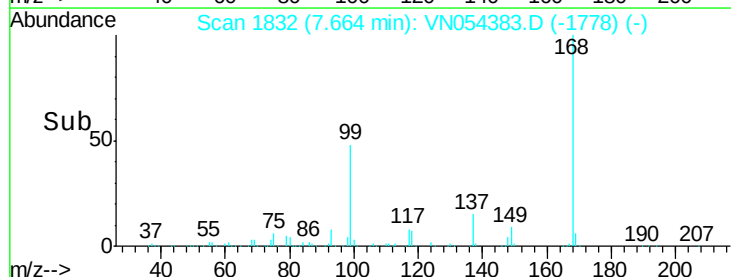
75 100

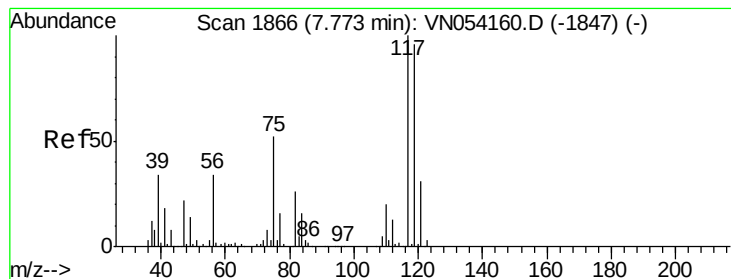
110 9.5 19.1 57.5#

77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): V  
Ion 109.90 (109.60 to 110.60): V  
Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.991 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN054383.D

Acq: 18 Mar 2019 10:20

Instrument :  
MSVOA\_N  
ClientSampled :

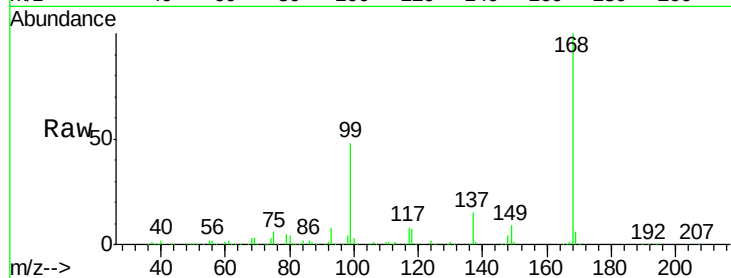
Tot Ion:117 Resp: 151063

Ion Ratio Lower Upper

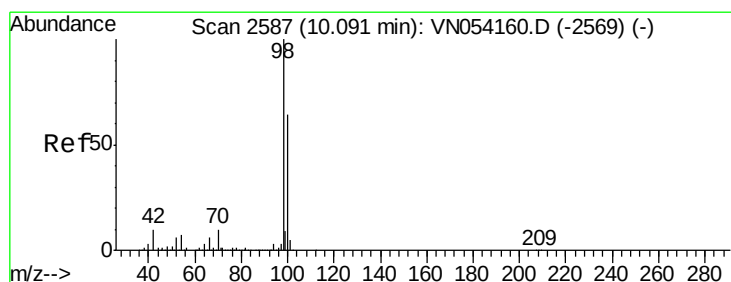
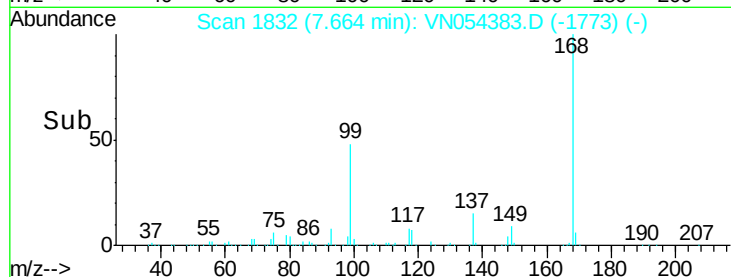
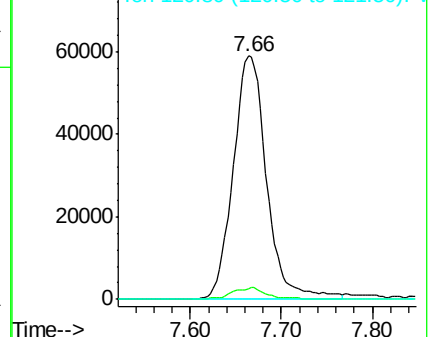
117 100

119 4.6 76.3 114.5#

121 0.0 24.6 36.8#



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: 48.051 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054383.D

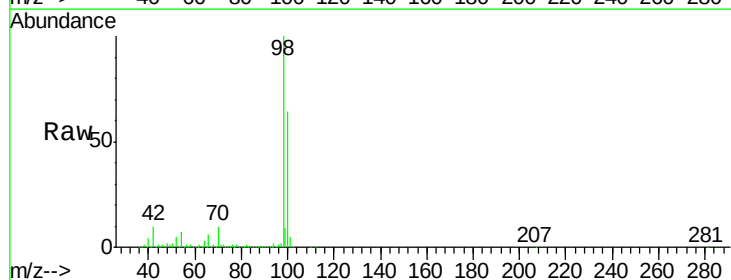
Acq: 18 Mar 2019 10:20

Tgt Ion: 98 Resp: 2988142

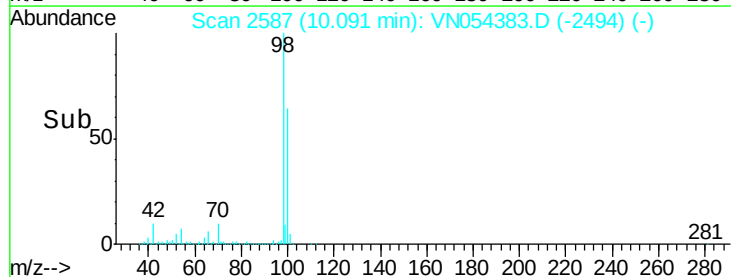
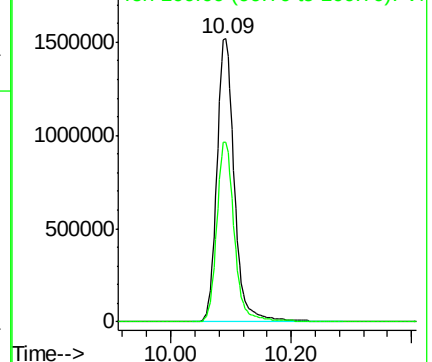
Ion Ratio Lower Upper

98 100

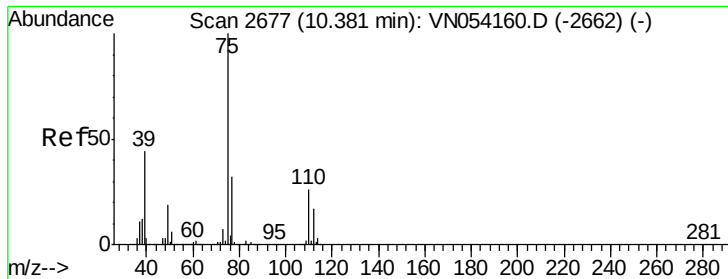
100 64.0 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN  
Ion 100.00 (99.70 to 100.70): VN



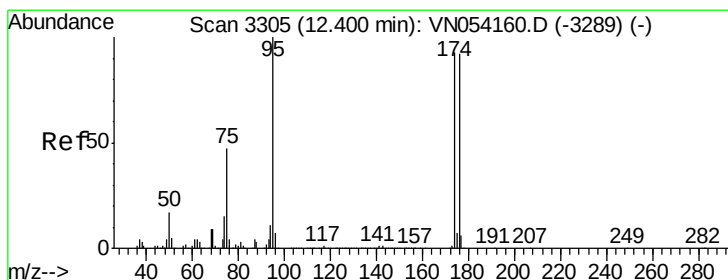
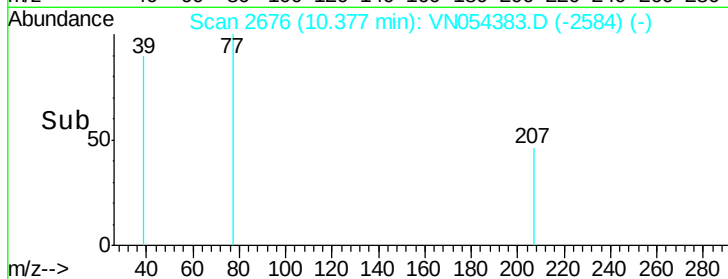
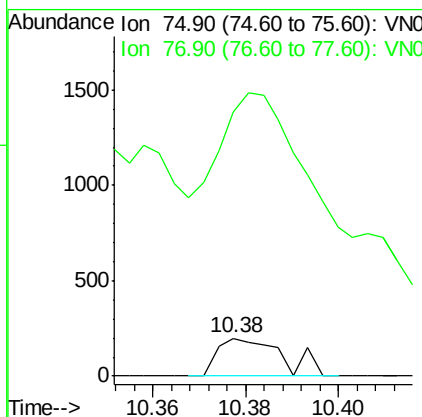
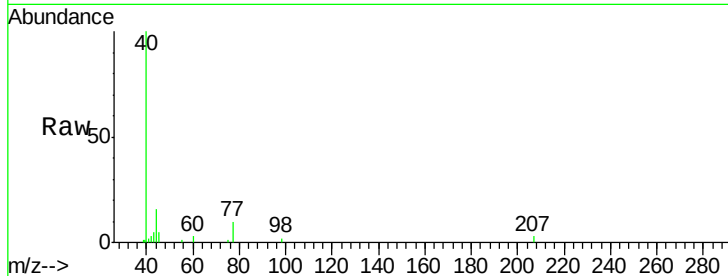




#53  
t-1,3-Dichloropropene  
Concen: 1.993 ug/l  
RT: 10.38 min Scan# 2676  
Delta R.T. -0.00 min  
Lab File: VN054383.D  
Acq: 18 Mar 2019 10:20

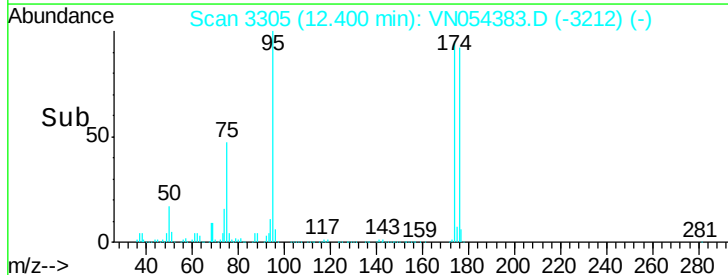
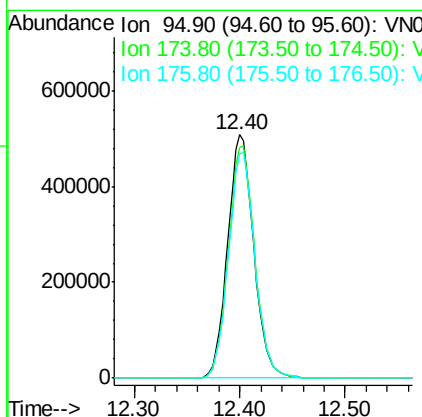
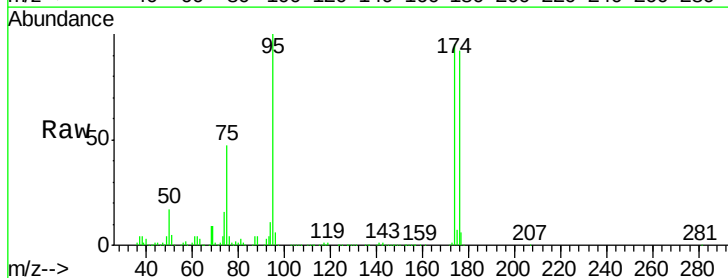
Instrument :  
MSVOA\_N  
ClientSampleId :

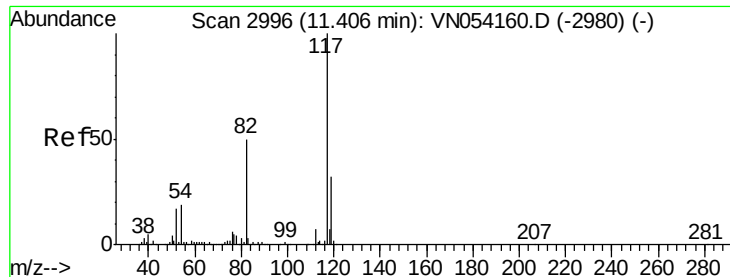
Tot Ion: 75 Resp: 194  
Ion Ratio Lower Upper  
75 100  
77 304.5 25.8 38.8#



#62  
4-Bromofluorobenzene  
Concen: 39.948 ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. -0.00 min  
Lab File: VN054383.D  
Acq: 18 Mar 2019 10:20

Tgt Ion: 95 Resp: 869239  
Ion Ratio Lower Upper  
95 100  
174 96.1 0.0 191.0  
176 93.5 0.0 187.4

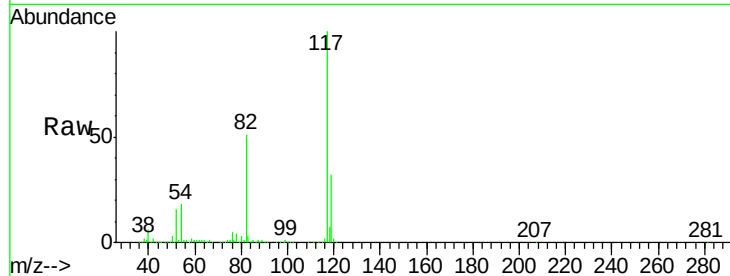




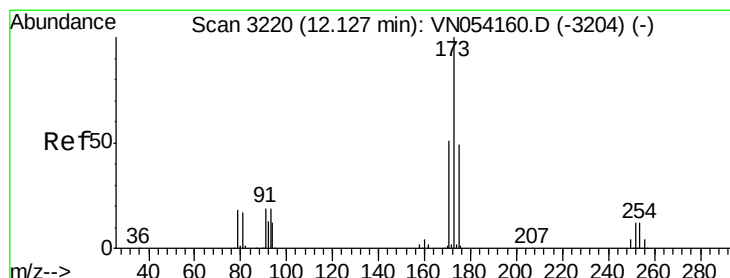
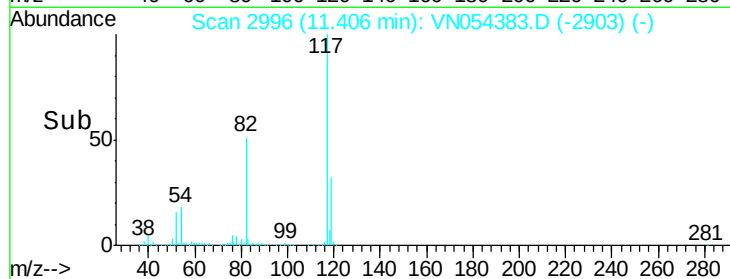
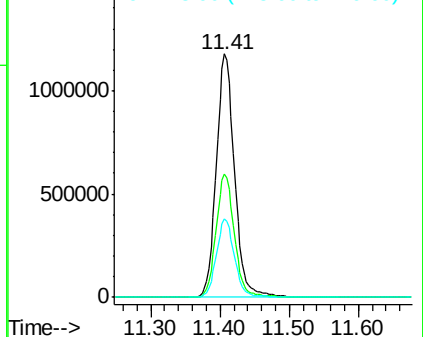
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. -0.00 min  
Lab File: VN054383.D  
Acq: 18 Mar 2019 10:20

Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion:117 Resp: 2144992  
Ion Ratio Lower Upper  
117 100  
82 50.6 40.0 60.0  
119 32.1 25.8 38.6

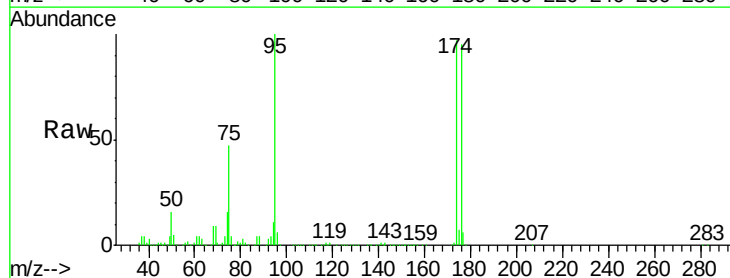


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

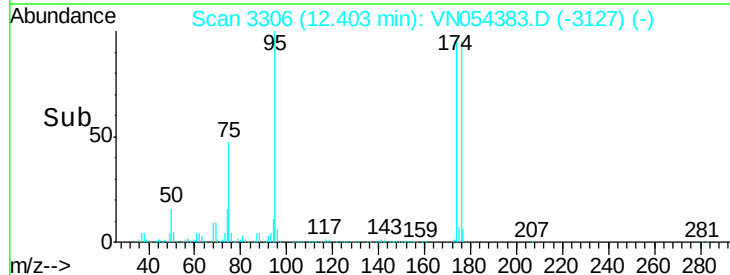
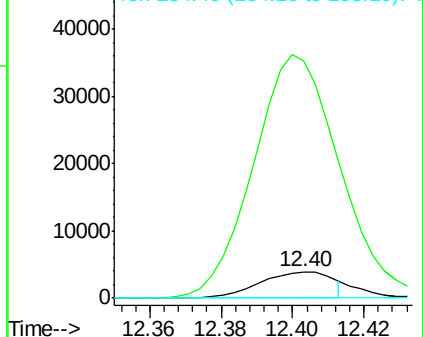


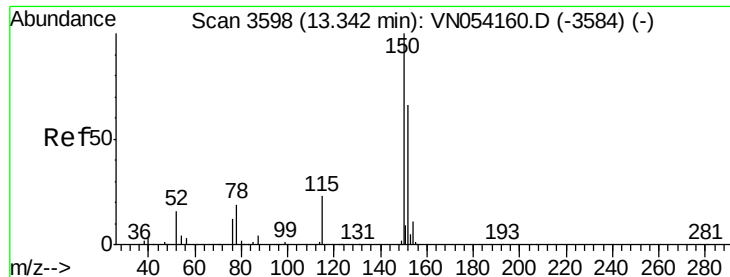
#71  
Bromoform  
Concen: 2.756 ug/l  
RT: 12.40 min Scan# 3306  
Delta R.T. 0.28 min  
Lab File: VN054383.D  
Acq: 18 Mar 2019 10:20

Tgt Ion:173 Resp: 5544  
Ion Ratio Lower Upper  
173 100  
175 950.0 24.4 73.2#  
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: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN054383.D

Acq: 18 Mar 2019 10:20

Instrument :

MSVOA\_N

ClientSampleId :

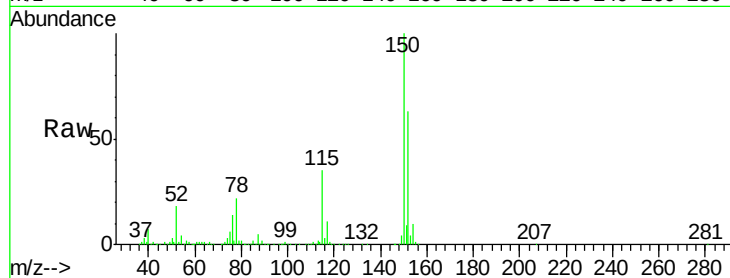
Tot Ion:152 Resp: 739173

Ion Ratio Lower Upper

152 100

115 55.2 27.2 81.6

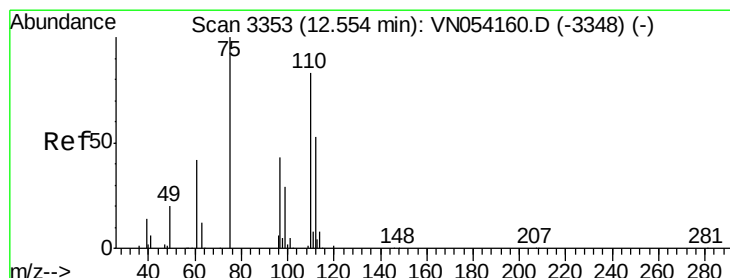
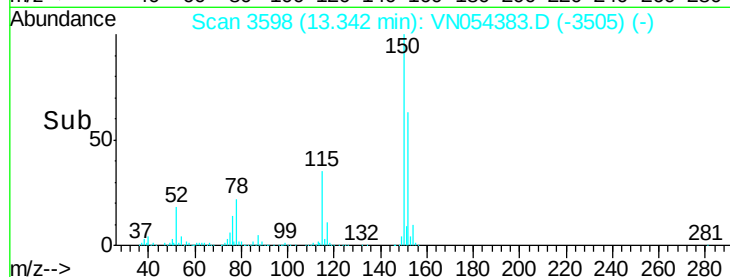
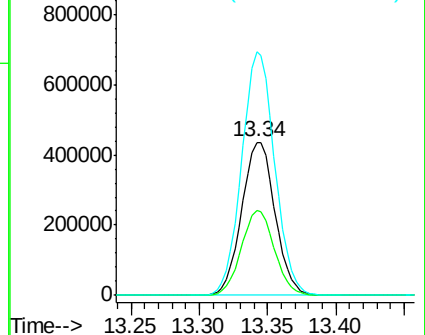
150 157.7 0.0 349.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 38.390 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054383.D

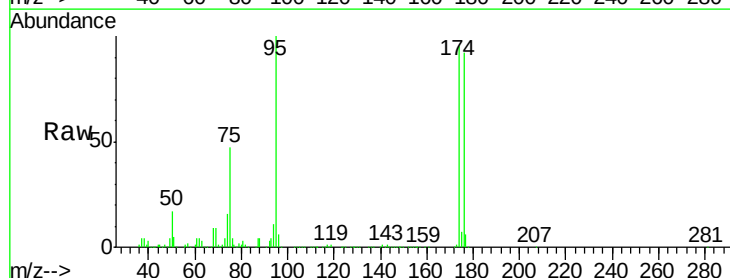
Acq: 18 Mar 2019 10:20

Tgt Ion: 75 Resp: 417298

Ion Ratio Lower Upper

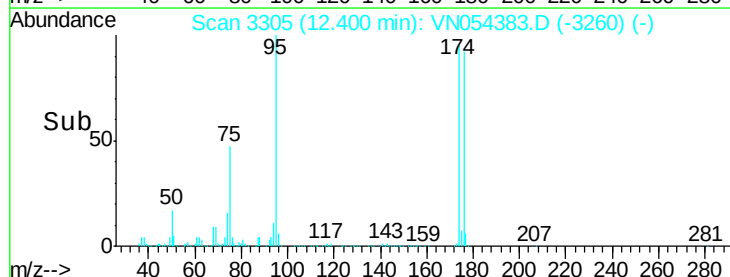
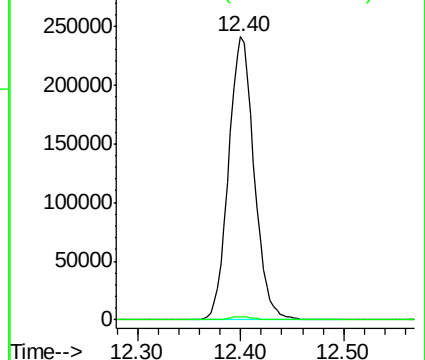
75 100

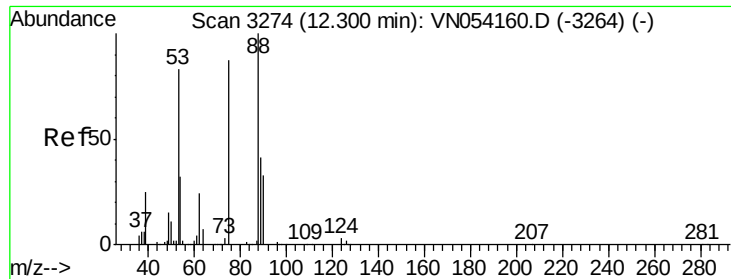
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 131.235 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054383.D

Acq: 18 Mar 2019 10:20

Instrument :

MSVOA\_N

ClientSampleId :

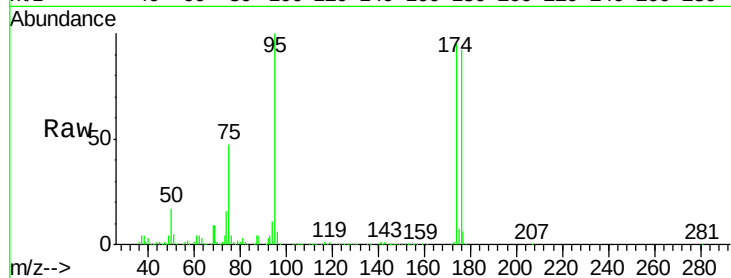
Tot Ion: 75 Resp: 417298

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

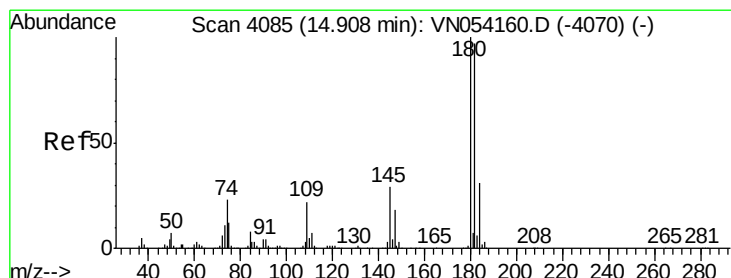
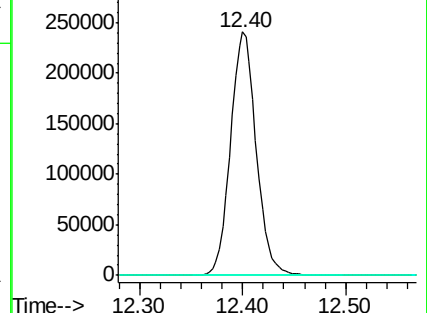
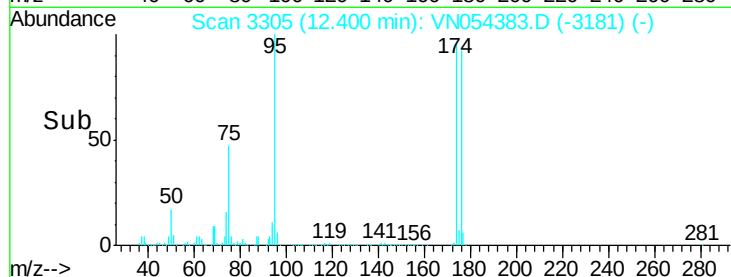
89 0.0 39.2 58.8#



Abundance Ion 74.90 (74.60 to 75.60): VN054383.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN054383.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN054383.D (-3181) (-)



#93

1,2,4-Trichlorobenzene

Concen: 2.575 ug/l

RT: 14.90 min Scan# 4084

Delta R.T. -0.00 min

Lab File: VN054383.D

Acq: 18 Mar 2019 10:20

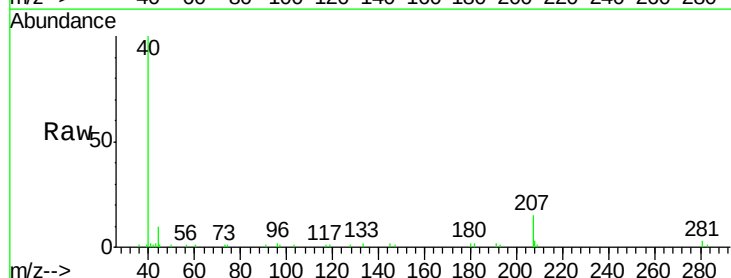
Tgt Ion:180 Resp: 961

Ion Ratio Lower Upper

180 100

182 109.8 48.0 144.2

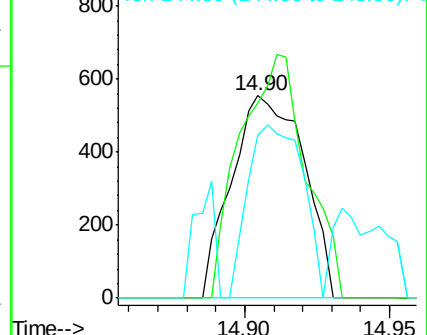
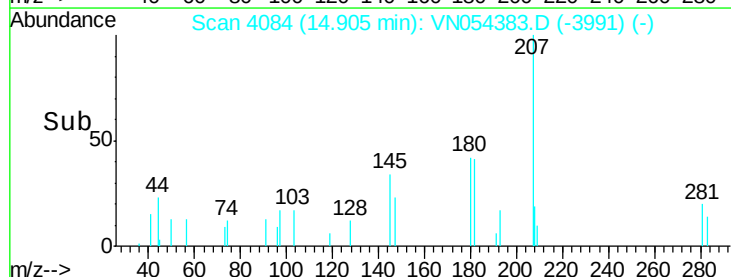
145 65.5 14.2 42.8#

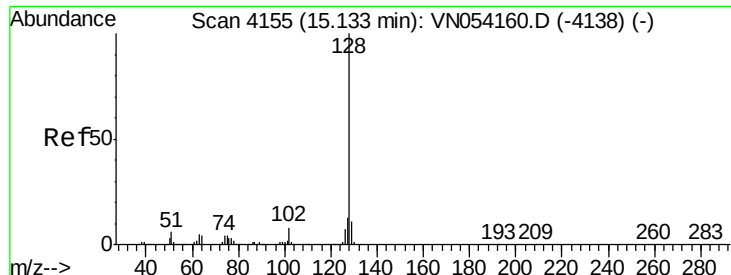


Abundance Ion 179.80 (179.50 to 180.50): VN054383.D (-3991) (-)

Ion 181.80 (181.50 to 182.50): VN054383.D (-3991) (-)

Ion 144.80 (144.50 to 145.50): VN054383.D (-3991) (-)

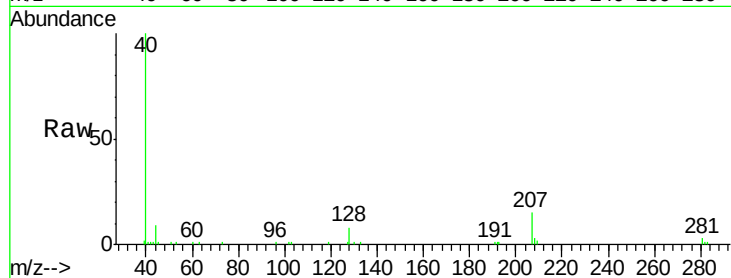




#95  
Naphthalene  
Concen: 3.559 ug/l  
RT: 15.14 min Scan# 4156  
Delta R.T. 0.00 min  
Lab File: VN054383.D  
Acq: 18 Mar 2019 10:20

Instrument :  
MSVOA\_N  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 8.2   | 10.1  | 15.1# |
| 129     | 4.8   | 8.7   | 13.1# |



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

