

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN093019\  
 Data File : VN058425.D  
 Acq On : 30 Sep 2019 11:31  
 Operator : JC/SP  
 Sample : K5080-02  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 FT-PZ460I-20190924

Quant Time: Oct 01 07:54:59 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N092719W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Sep 30 08:07:38 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.65  | 168  | 457251   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 739706   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 628062   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 243098   | 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   | 322385   | 48.25  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 96.50%  |          |
| 35) Dibromofluoromethane    | 7.57  | 113  | 228575   | 50.42  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 100.84% |          |
| 50) Toluene-d8              | 10.08 | 98   | 918752   | 51.73  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 103.46% |          |
| 62) 4-Bromofluorobenzene    | 12.41 | 95   | 289797   | 45.13  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 90.26%  |          |

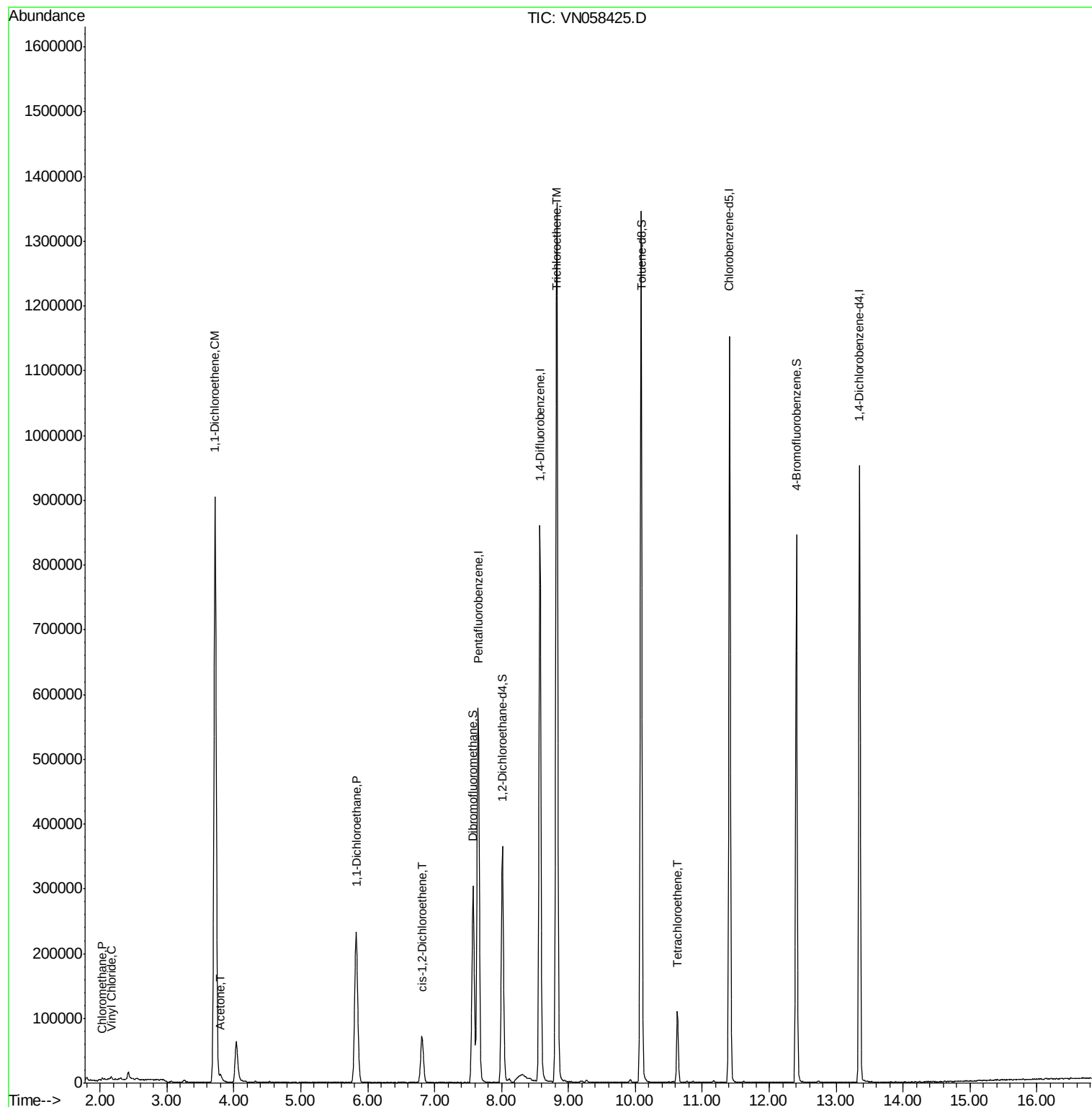
| Target Compounds           | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|----------------------------|-------|------|----------|---------|--------|--------|
| 3) Chloromethane           | 2.04  | 50   | 2048     | 0.372   | ug/l # | 87     |
| 4) Vinyl Chloride          | 2.17  | 62   | 3908     | 0.724   | ug/l   | 92     |
| 12) 1,1-Dichloroethene     | 3.72  | 96   | 439706   | 101.938 | ug/l   | 99     |
| 16) Acetone                | 3.80  | 43   | 16216    | 7.119   | ug/l   | 95     |
| 24) 1,1-Dichloroethane     | 5.83  | 63   | 362299   | 38.109  | ug/l   | 100    |
| 27) cis-1,2-Dichloroethene | 6.81  | 96   | 45690    | 8.150   | ug/l   | 87     |
| 44) Trichloroethene        | 8.82  | 130  | 473571   | 94.334  | ug/l   | 98     |
| 64) Tetrachloroethene      | 10.63 | 164  | 22763    | 5.705   | ug/l   | 95     |

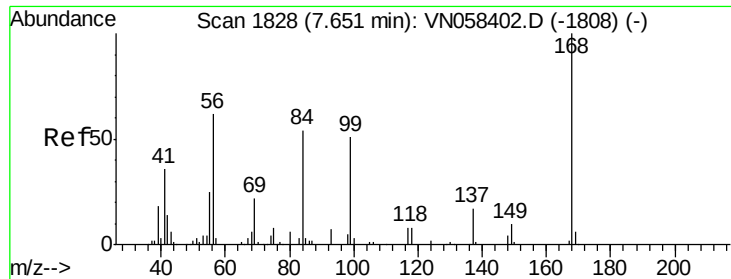
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Mon Sep 30 08:07:38 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: VN058425.D

Acq: 30 Sep 2019 11:31

Instrument :

MSVOA\_N

ClientSampleId :

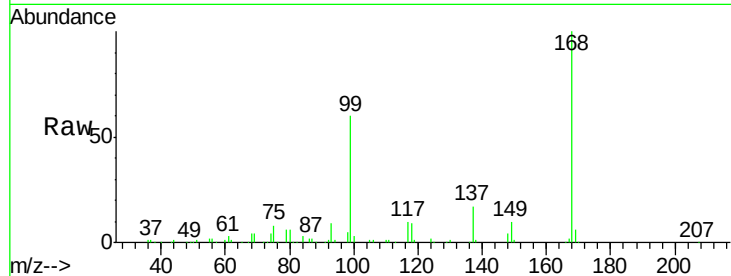
FT-PZ460I-20190924

Tot Ion:168 Resp: 457251

Ion Ratio Lower Upper

168 100

99 60.5 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

200000

150000

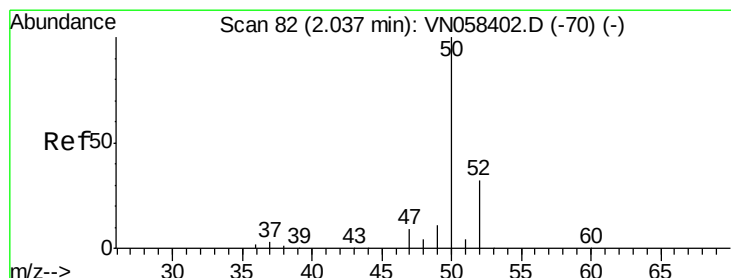
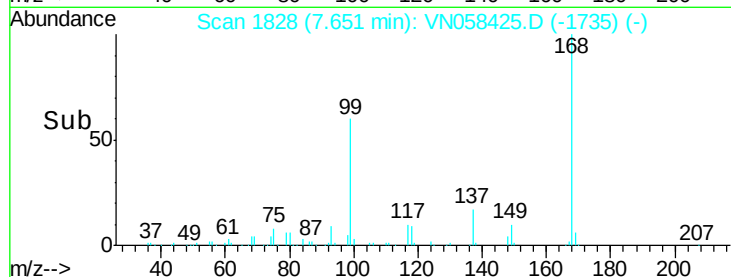
100000

50000

0

7.60 7.70

Time-->



#3

Chloromethane

Concen: 0.372 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058425.D

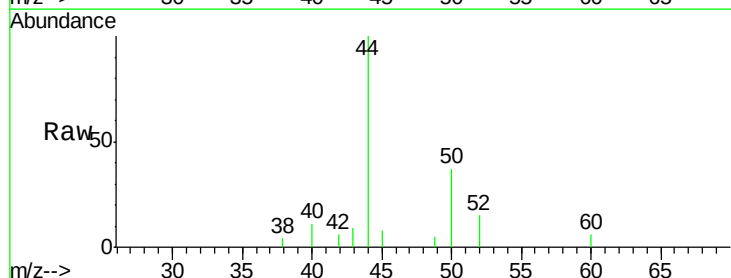
Acq: 30 Sep 2019 11:31

Tgt Ion: 50 Resp: 2048

Ion Ratio Lower Upper

50 100

52 39.7 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.04

1500

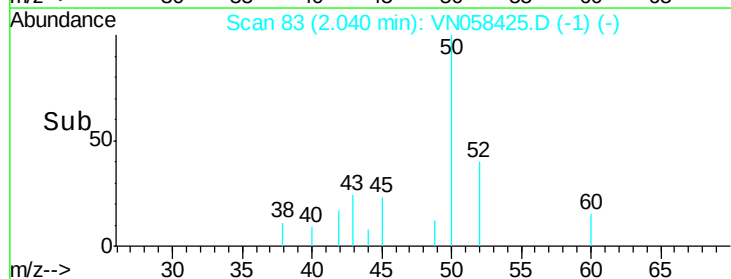
1000

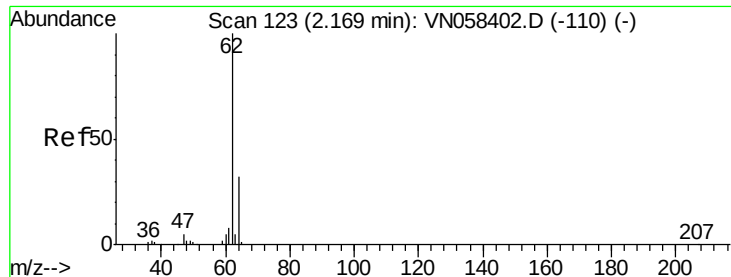
500

0

2.00 2.05

Time-->





#4

Vinyl Chloride

Concen: 0.724 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN058425.D

Acq: 30 Sep 2019 11:31

Instrument :

MSVOA\_N

ClientSampleId :

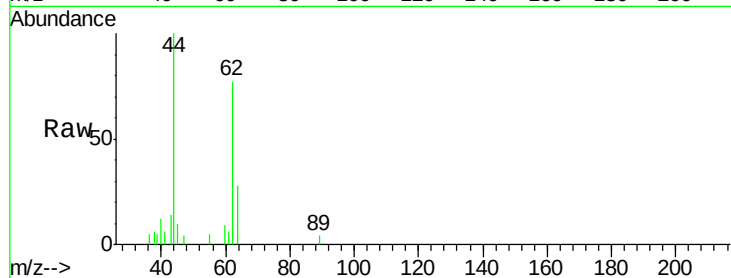
FT-PZ460I-20190924

Tot Ion: 62 Resp: 3908

Ion Ratio Lower Upper

62 100

64 36.4 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO

2.17

3000

2500

2000

1500

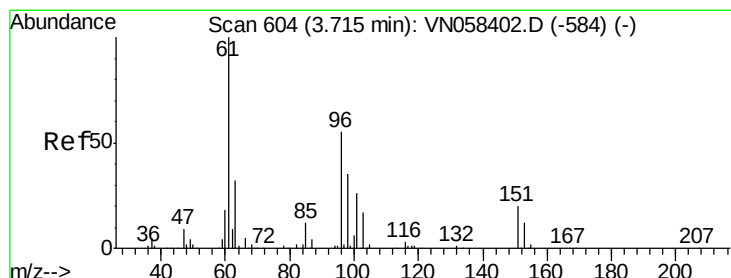
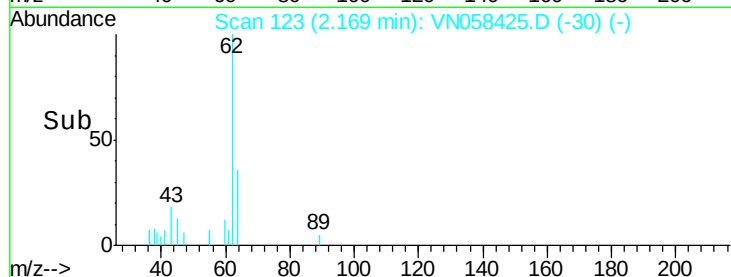
1000

500

0

2.15 2.20

Time-->



#12

1,1-Dichloroethene

Concen: 101.938 ug/l

RT: 3.72 min Scan# 605

Delta R.T. 0.00 min

Lab File: VN058425.D

Acq: 30 Sep 2019 11:31

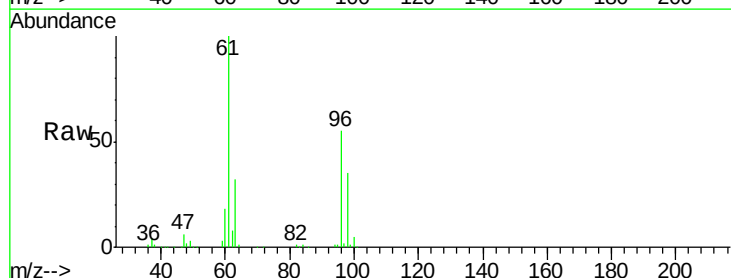
Tgt Ion: 96 Resp: 439706

Ion Ratio Lower Upper

96 100

61 181.8 146.7 220.1

98 63.8 51.3 76.9



Abundance Ion 95.90 (95.60 to 96.60): VNO

Ion 60.90 (60.60 to 61.60): VNO

Ion 97.90 (97.60 to 98.60): VNO

400000

300000

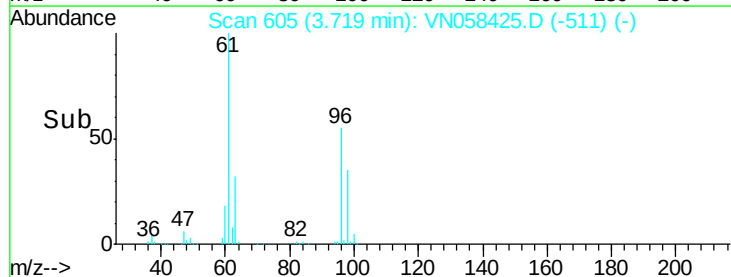
200000

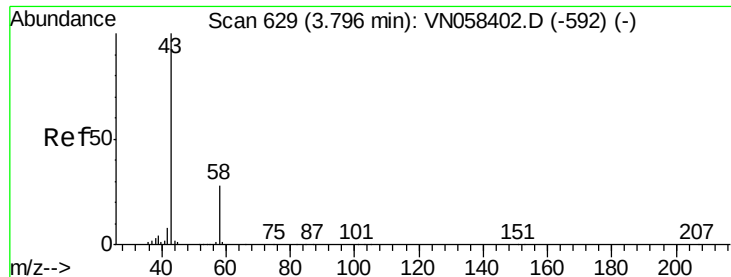
100000

0

3.60 3.70 3.80

Time-->





#16

Acetone

Concen: 7.119 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.00 min

Lab File: VN058425.D

Acq: 30 Sep 2019 11:31

Instrument :

MSVOA\_N

ClientSampleId :

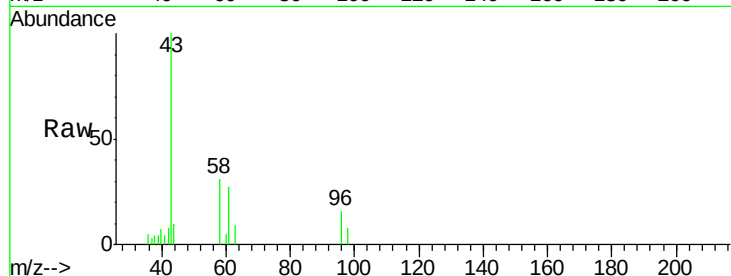
FT-PZ460I-20190924

Tot Ion: 43 Resp: 16216

Ion Ratio Lower Upper

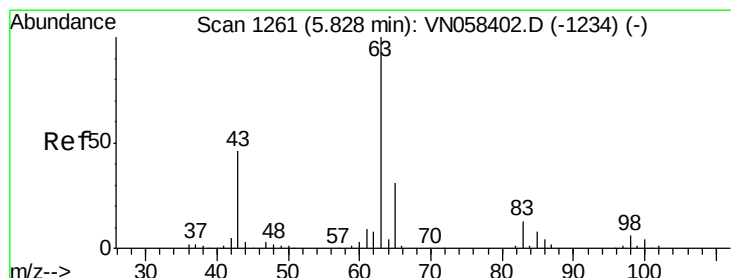
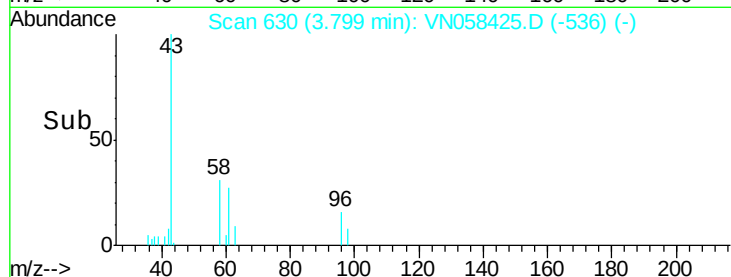
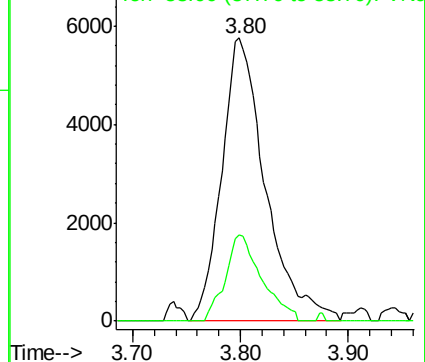
43 100

58 30.6 22.4 33.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#24

1,1-Dichloroethane

Concen: 38.109 ug/l

RT: 5.83 min Scan# 1262

Delta R.T. 0.00 min

Lab File: VN058425.D

Acq: 30 Sep 2019 11:31

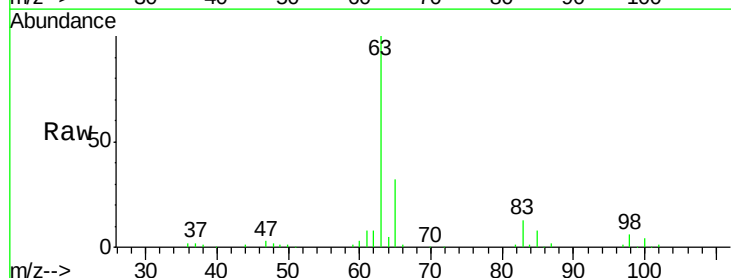
Tgt Ion: 63 Resp: 362299

Ion Ratio Lower Upper

63 100

98 6.0 3.0 9.0

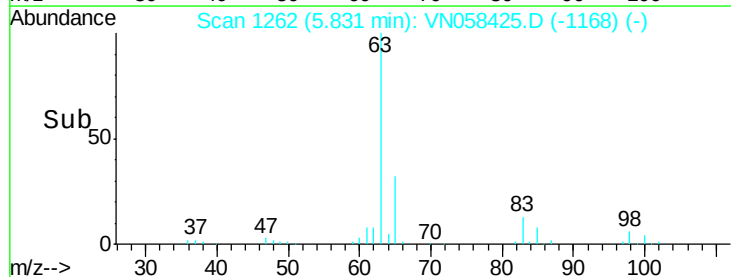
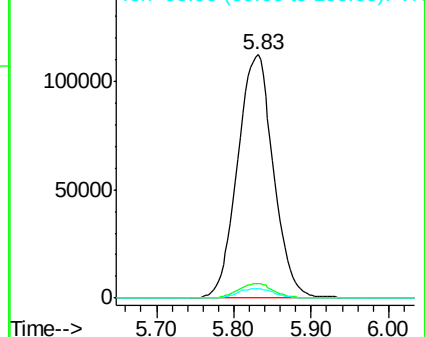
100 3.9 2.0 5.8

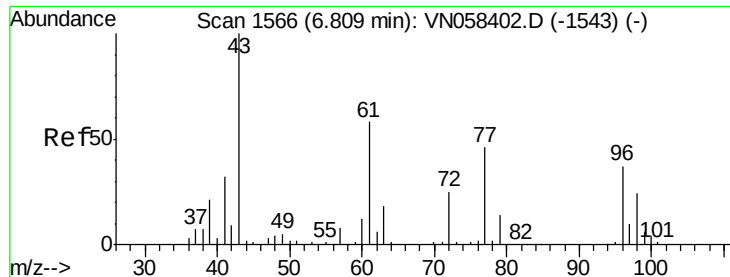


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#27

cis-1,2-Dichloroethene

Concen: 8.150 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. -0.00 min

Lab File: VN058425.D

Acq: 30 Sep 2019 11:31

Instrument :

MSVOA\_N

ClientSampleId :

FT-PZ460I-20190924

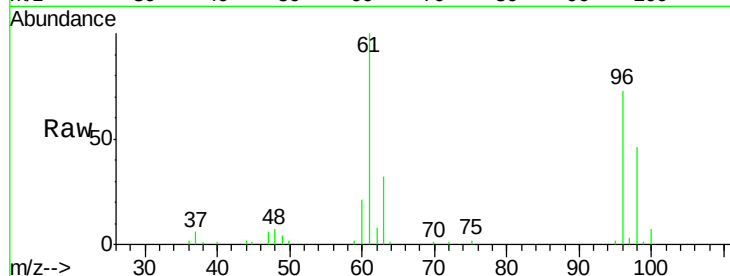
Tot Ion: 96 Resp: 45690

Ion Ratio Lower Upper

96 100

61 136.6 0.0 318.8

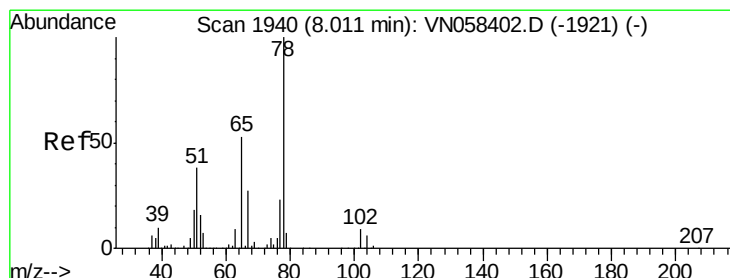
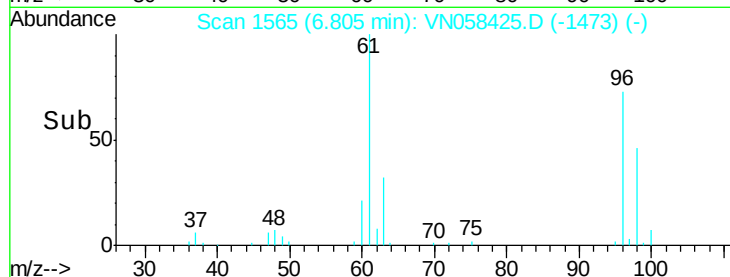
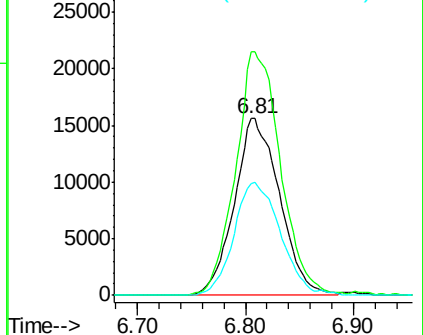
98 65.6 0.0 129.8



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#33

1,2-Dichloroethane-d4

Concen: 48.247 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN058425.D

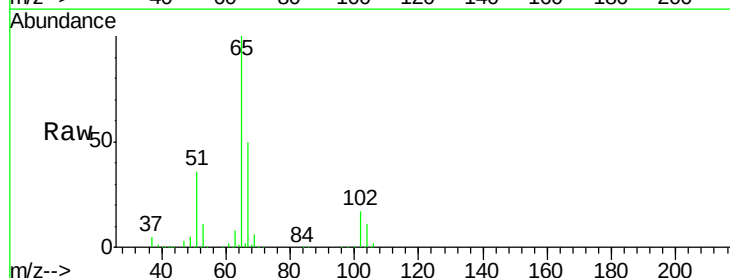
Acq: 30 Sep 2019 11:31

Tgt Ion: 65 Resp: 322385

Ion Ratio Lower Upper

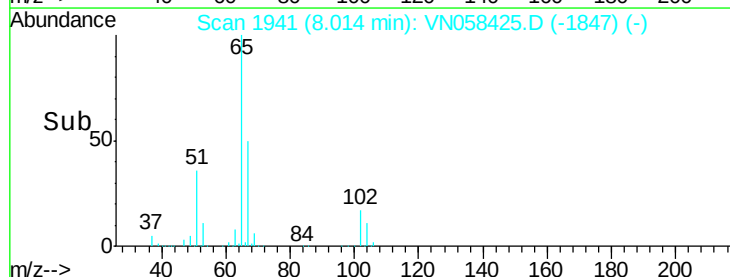
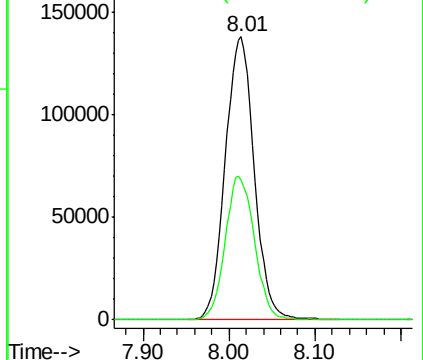
65 100

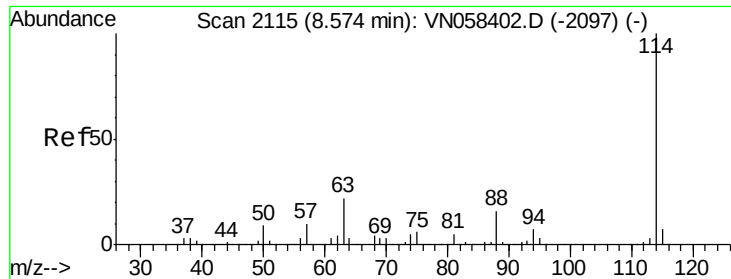
67 51.2 0.0 102.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

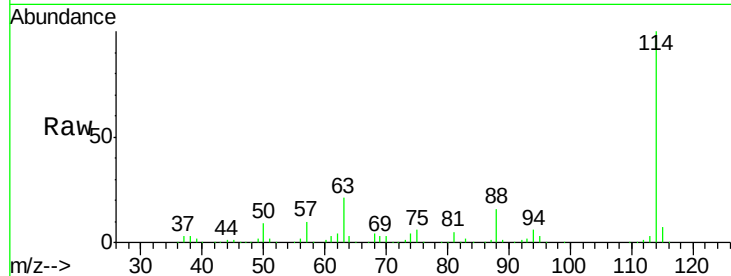




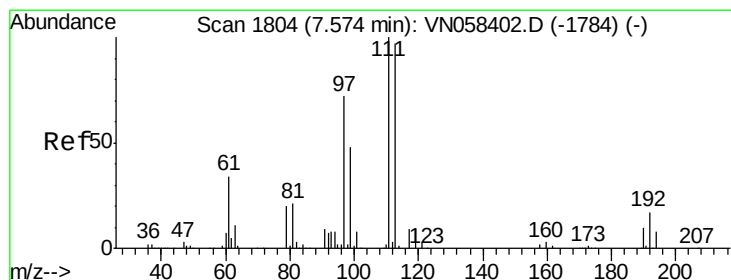
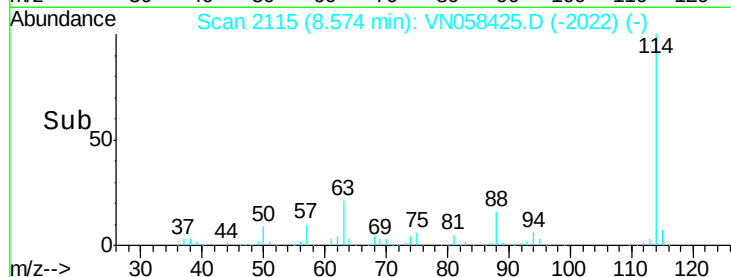
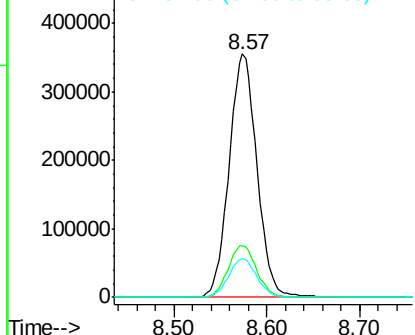
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.57 min Scan# 2115  
 Delta R.T. -0.00 min  
 Lab File: VN058425.D  
 Acq: 30 Sep 2019 11:31

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 FT-PZ460I-20190924

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 21.3  | 0.0   | 45.0  |
| 88      | 16.0  | 0.0   | 32.2  |

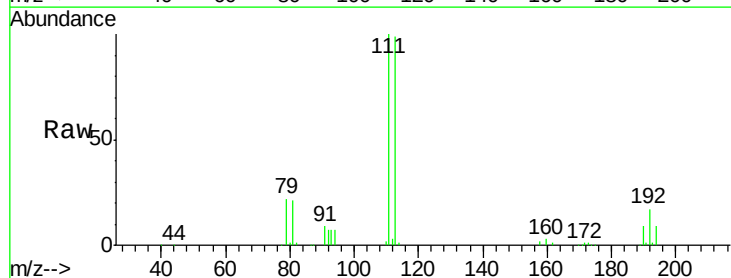


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

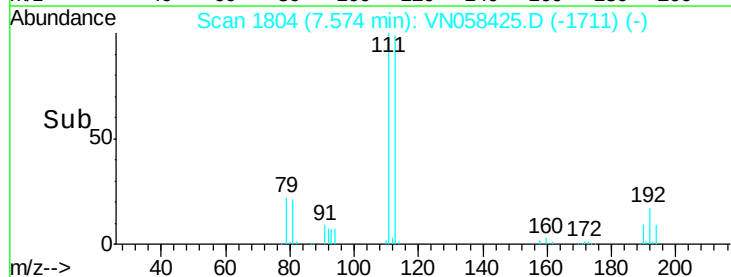
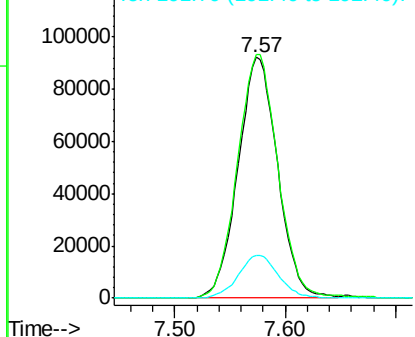


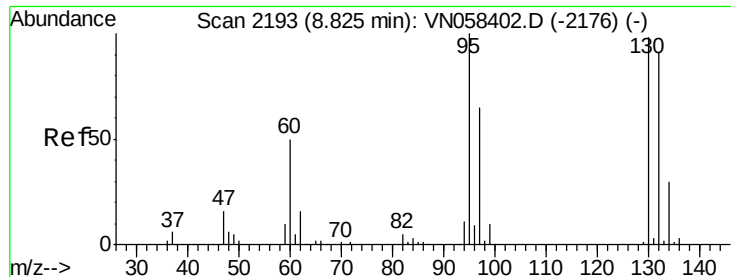
#35  
 Dibromofluoromethane  
 Concen: 50.418 ug/l  
 RT: 7.57 min Scan# 1804  
 Delta R.T. -0.00 min  
 Lab File: VN058425.D  
 Acq: 30 Sep 2019 11:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.6 | 83.4  | 125.2 |
| 192     | 18.0  | 14.9  | 22.3  |



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





#44

Trichloroethene

Concen: 94.334 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VN058425.D

Acq: 30 Sep 2019 11:31

Instrument :

MSVOA\_N

ClientSampleId :

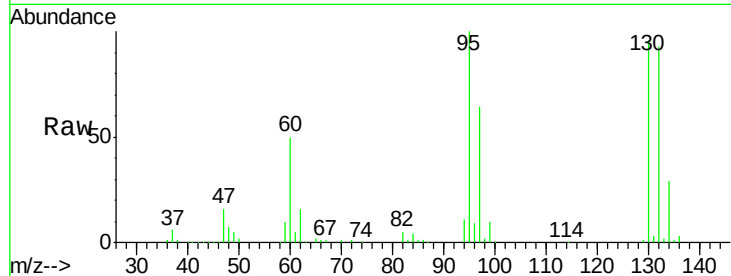
FT-PZ460I-20190924

Tot Ion:130 Resp: 473571

Ion Ratio Lower Upper

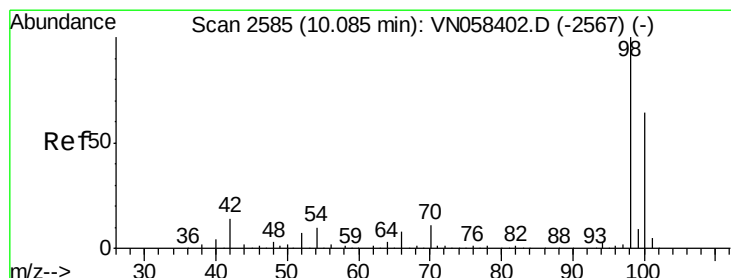
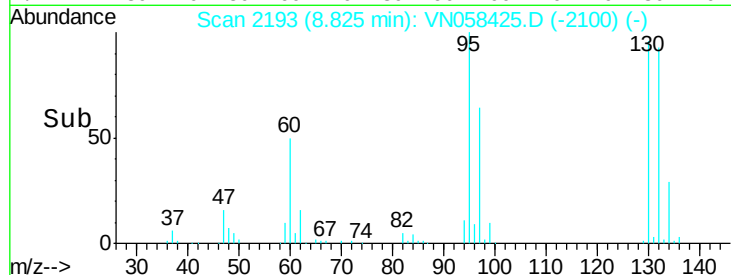
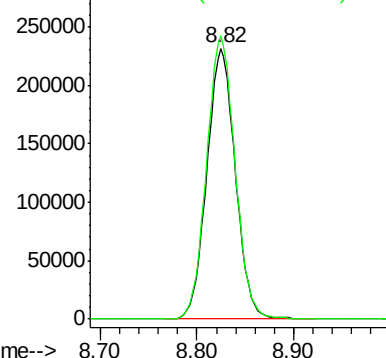
130 100

95 104.6 0.0 204.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN



#50

Toluene-d8

Concen: 51.732 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058425.D

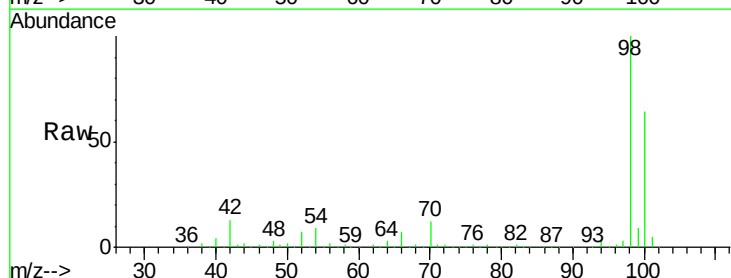
Acq: 30 Sep 2019 11:31

Tgt Ion: 98 Resp: 918752

Ion Ratio Lower Upper

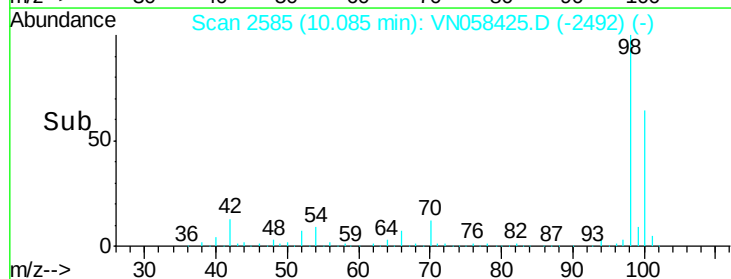
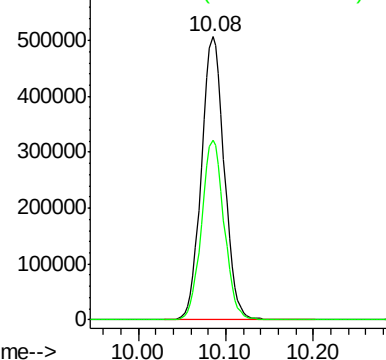
98 100

100 63.1 51.0 76.6

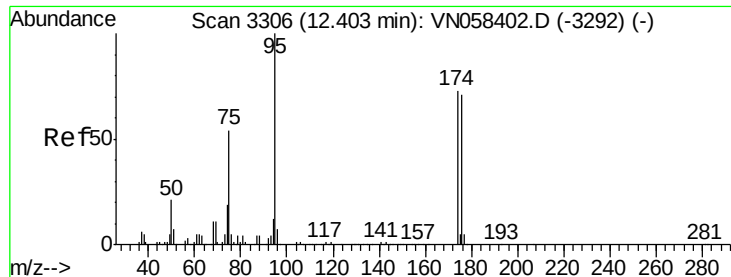


Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN







#62

4-Bromofluorobenzene

Concen: 45.128 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058425.D

Acq: 30 Sep 2019 11:31

Instrument :

MSVOA\_N

ClientSampleId :

FT-PZ460I-20190924

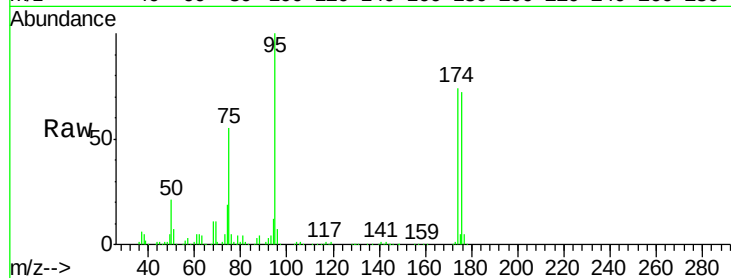
Tot Ion: 95 Resp: 289797

Ion Ratio Lower Upper

95 100

174 74.7 0.0 150.6

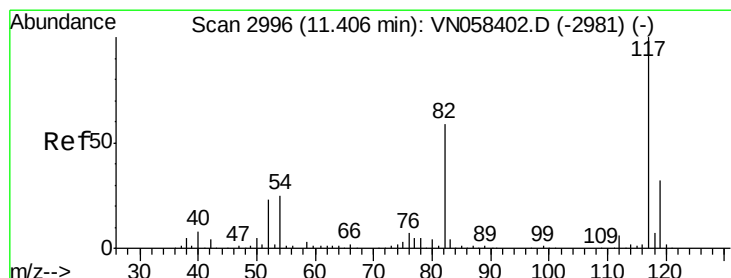
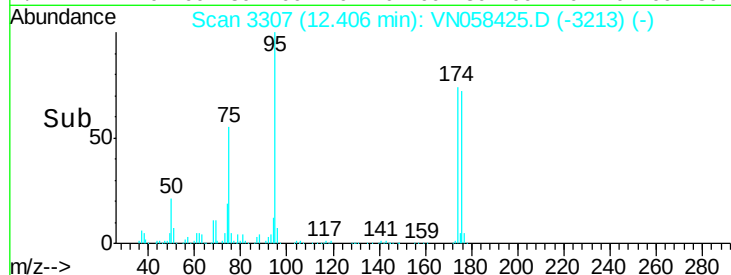
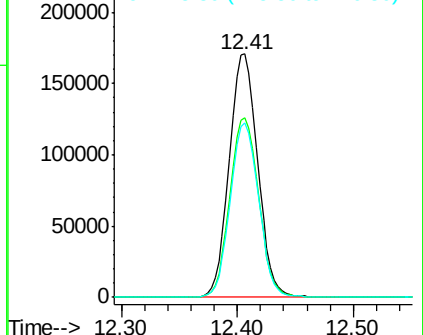
176 71.5 0.0 146.2



Abundance Ion 94.90 (94.60 to 95.60): VN058402.D (-3292) (-)

Ion 173.80 (173.50 to 174.50): VN058402.D (-3292) (-)

Ion 175.80 (175.50 to 176.50): VN058402.D (-3292) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN058425.D

Acq: 30 Sep 2019 11:31

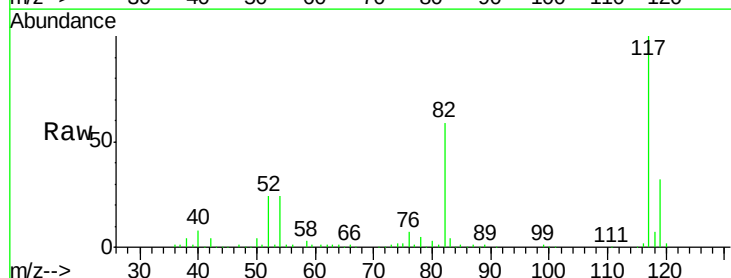
Tgt Ion: 117 Resp: 628062

Ion Ratio Lower Upper

117 100

82 59.4 47.4 71.0

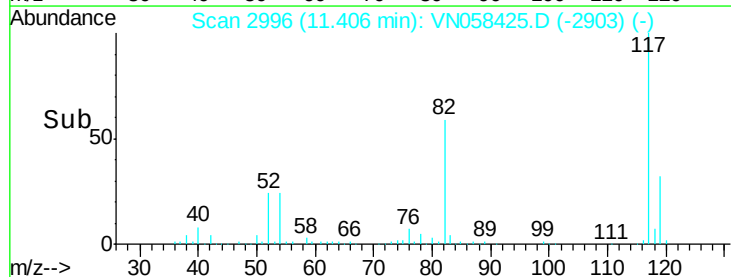
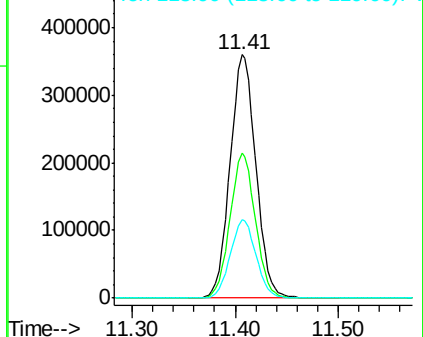
119 32.2 25.5 38.3

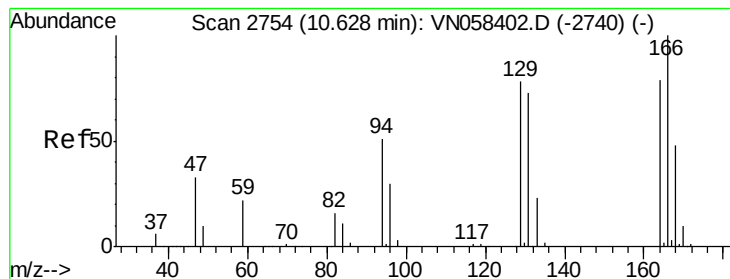


Abundance Ion 116.90 (116.60 to 117.60): VN058402.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN058402.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN058402.D (-2981) (-)





#64

Tetrachloroethene

Concen: 5.705 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. 0.00 min

Lab File: VN058425.D

Acq: 30 Sep 2019 11:31

Instrument :

MSVOA\_N

ClientSampleId :

FT-PZ460I-20190924

Tot Ion:164 Resp: 22763

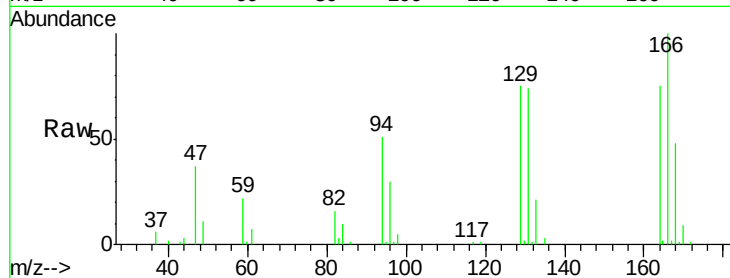
Ion Ratio Lower Upper

164 100

166 134.1 101.1 151.7

129 100.4 79.2 118.8

131 98.6 74.1 111.1

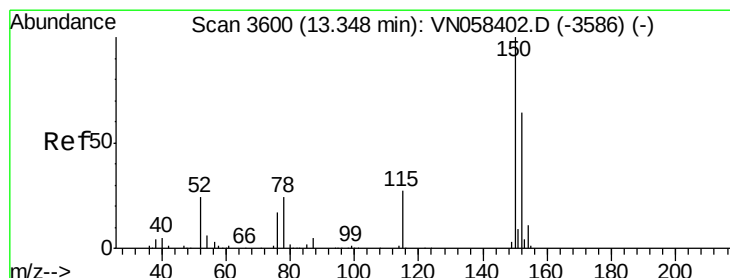
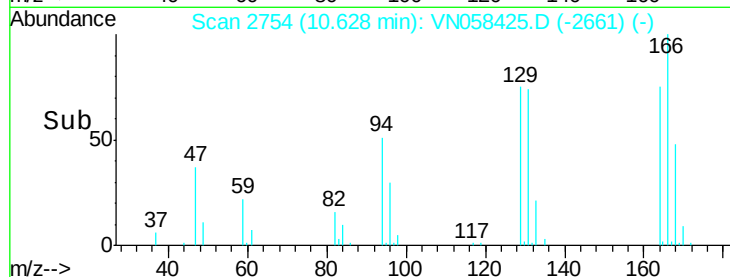
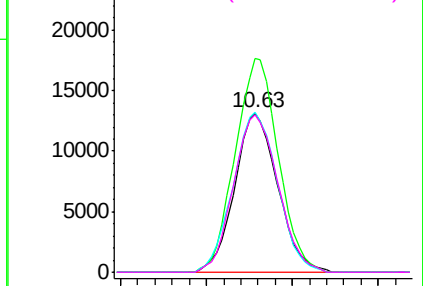


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): 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: VN058425.D

Acq: 30 Sep 2019 11:31

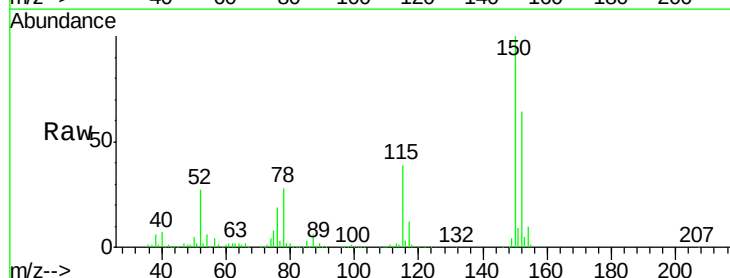
Tgt Ion:152 Resp: 243098

Ion Ratio Lower Upper

152 100

115 60.1 30.0 90.0

150 157.0 0.0 348.2



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

