

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN093019\  
 Data File : VN058435.D  
 Acq On : 30 Sep 2019 15:11  
 Operator : JC/SP  
 Sample : K5080-15  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Oct 01 01:32:24 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  | 433776   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 702443   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 590577   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 226632   | 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   | 311430   | 49.13 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 98.26%  |          |
| 35) Dibromofluoromethane    | 7.58  | 113  | 216421   | 50.27 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 100.54% |          |
| 50) Toluene-d8              | 10.09 | 98   | 871584   | 51.68 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 103.36% |          |
| 62) 4-Bromofluorobenzene    | 12.41 | 95   | 272109   | 44.62 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 89.24%  |          |

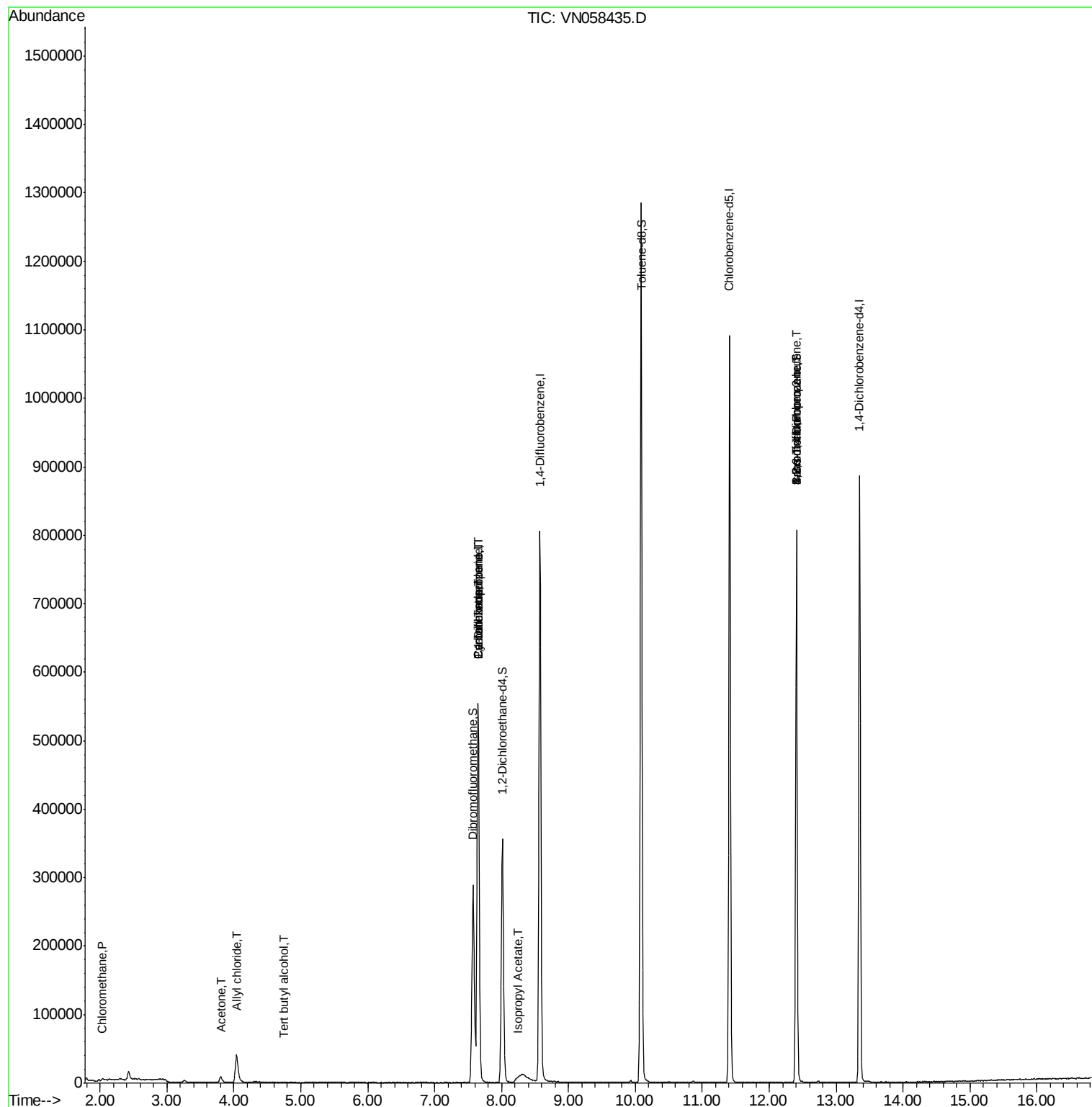
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 3) Chloromethane               | 2.04  | 50   | 1889     | 0.361   | ug/l   | 94     |
| 11) Tert butyl alcohol         | 4.75  | 59   | 250      | 0.355   | ug/l # | 71     |
| 14) Allyl chloride             | 4.04  | 41   | 5335     | 0.716   | ug/l # | 59     |
| 16) Acetone                    | 3.80  | 43   | 15002    | 6.943   | ug/l   | 99     |
| 31) Cyclohexane                | 7.64  | 56   | 10430    | 1.189   | ug/l # | 12     |
| 36) 1,1-Dichloropropene        | 7.65  | 75   | 36554    | 5.442   | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 7.65  | 117  | 44782    | 7.386   | ug/l # | 16     |
| 43) Isopropyl Acetate          | 8.24  | 43   | 6001     | 0.560   | ug/l # | 63     |
| 71) Bromoform                  | 12.41 | 173  | 1839     | 1.358   | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.41 | 75   | 151218   | 36.531  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.41 | 75   | 151218   | 110.949 | ug/l # | 7      |

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

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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: VN058435.D

Acq: 30 Sep 2019 15:11

Instrument :

MSVOA\_N

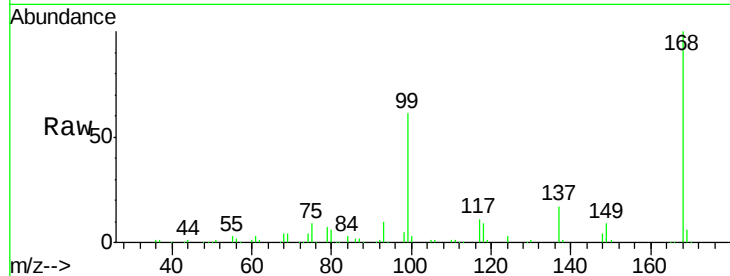
ClientSampleId :

Tot Ion:168 Resp: 433776

Ion Ratio Lower Upper

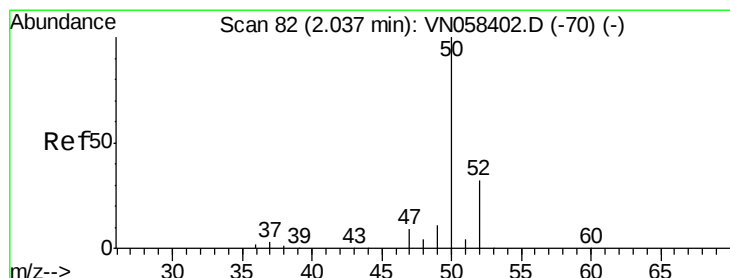
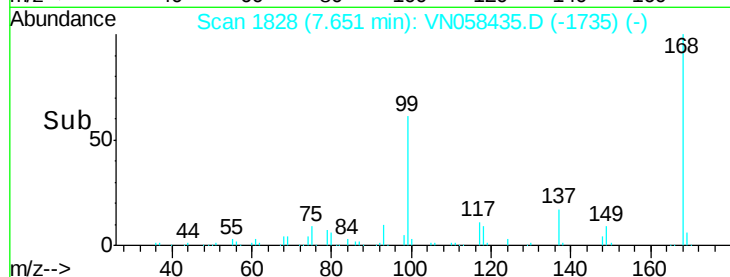
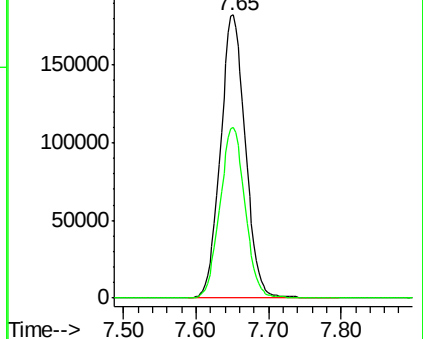
168 100

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



#3

Chloromethane

Concen: 0.361 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058435.D

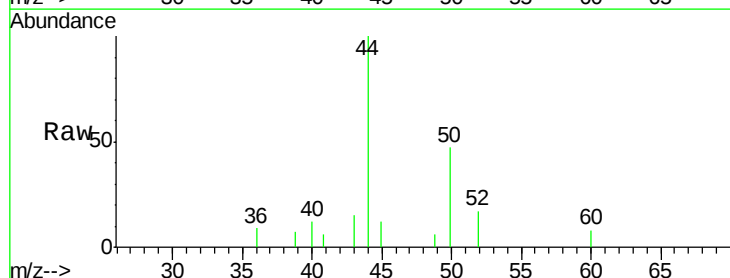
Acq: 30 Sep 2019 15:11

Tgt Ion: 50 Resp: 1889

Ion Ratio Lower Upper

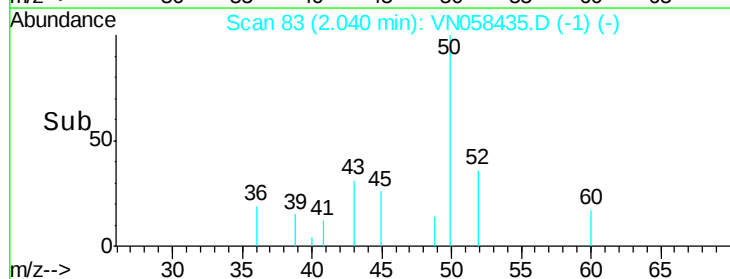
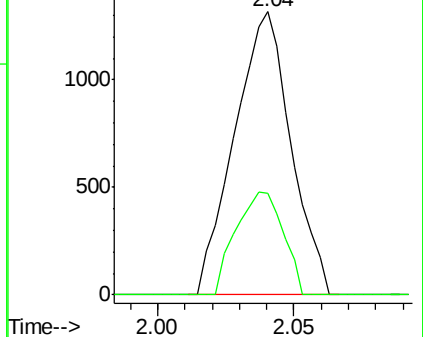
50 100

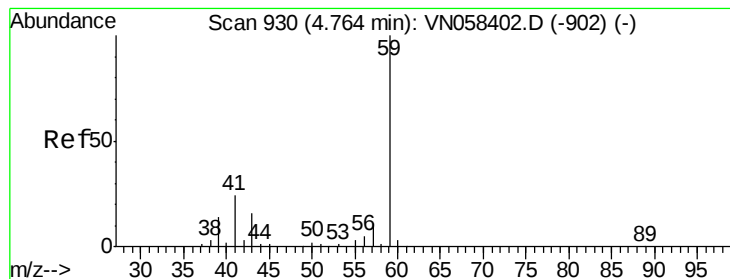
52 35.9 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO





#11

Tert butyl alcohol

Concen: 0.355 ug/l

RT: 4.75 min Scan# 926

Delta R.T. -0.01 min

Lab File: VN058435.D

Acq: 30 Sep 2019 15:11

Instrument :

MSVOA\_N

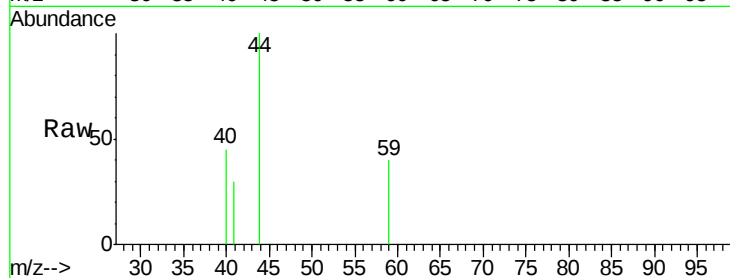
ClientSampled :

Tot Ion: 59 Resp: 250

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.75

250

200

150

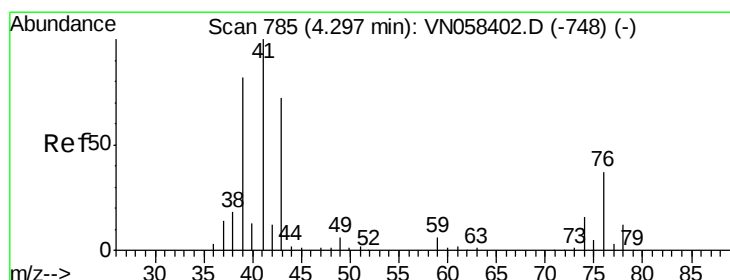
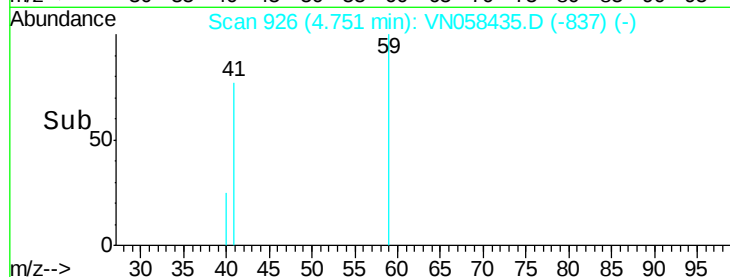
100

50

0

4.74 4.75 4.76

Time-->



#14

Allyl chloride

Concen: 0.716 ug/l

RT: 4.04 min Scan# 705

Delta R.T. -0.26 min

Lab File: VN058435.D

Acq: 30 Sep 2019 15:11

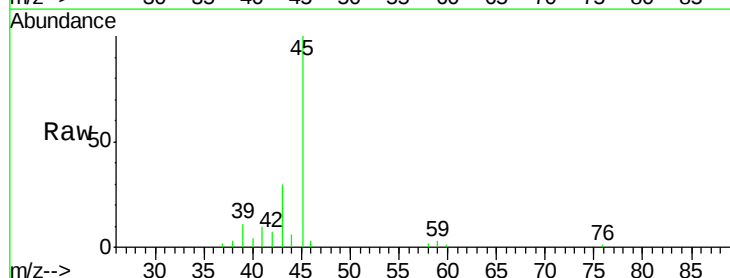
Tgt Ion: 41 Resp: 5335

Ion Ratio Lower Upper

41 100

39 110.7 62.3 93.5#

76 6.5 26.9 40.3#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0

4.04

2500

2000

1500

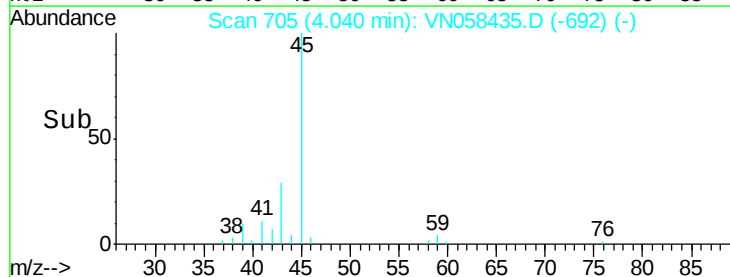
1000

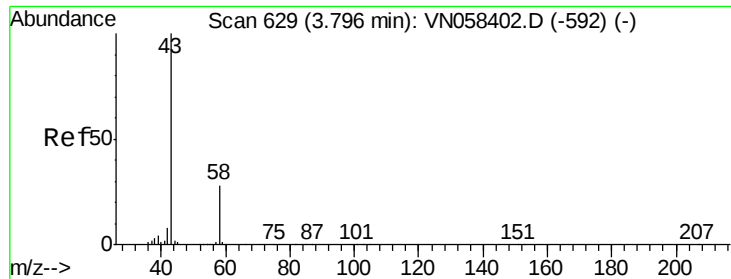
500

0

4.00 4.05 4.10

Time-->





#16

Acetone

Concen: 6.943 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.00 min

Lab File: VN058435.D

Acq: 30 Sep 2019 15:11

Instrument :

MSVOA\_N

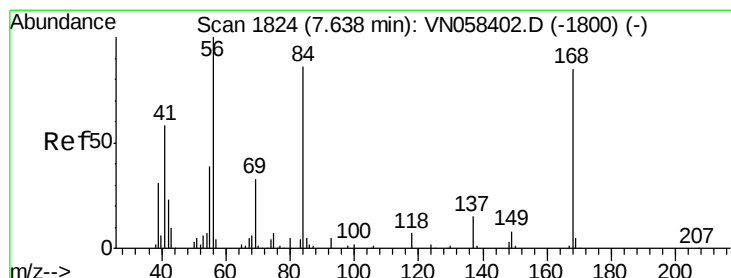
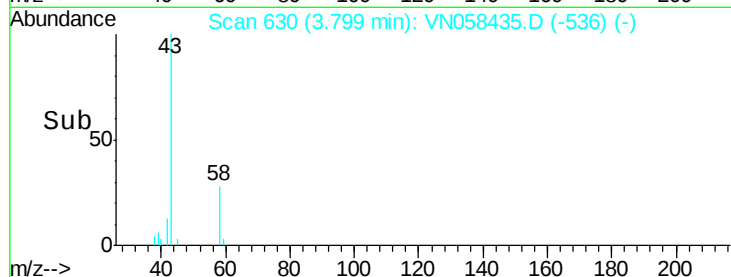
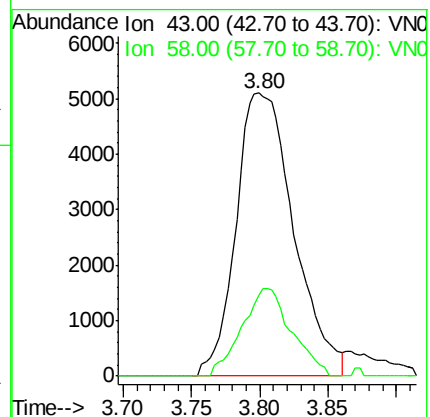
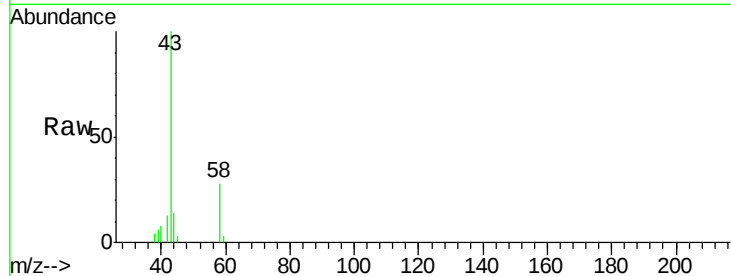
ClientSampleId :

Tot Ion: 43 Resp: 15002

Ion Ratio Lower Upper

43 100

58 28.5 22.4 33.6



#31

Cyclohexane

Concen: 1.189 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN058435.D

Acq: 30 Sep 2019 15:11

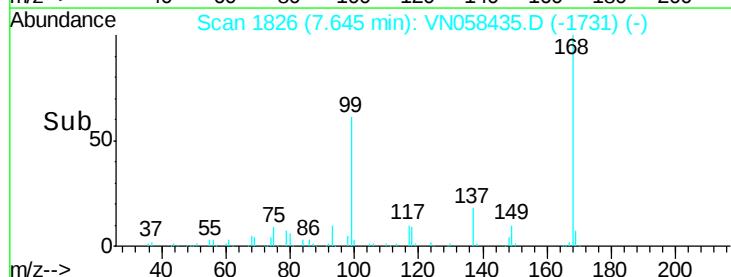
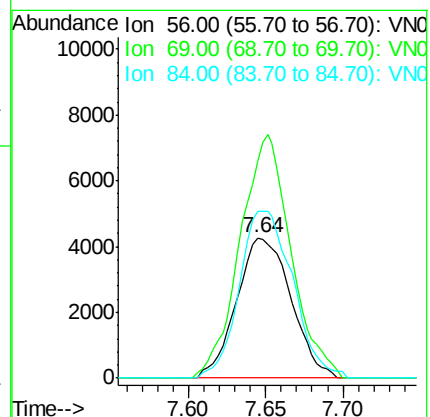
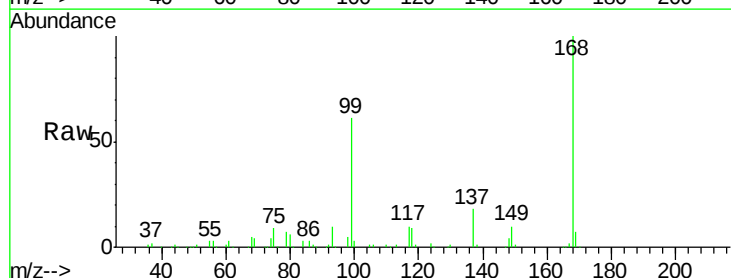
Tgt Ion: 56 Resp: 10430

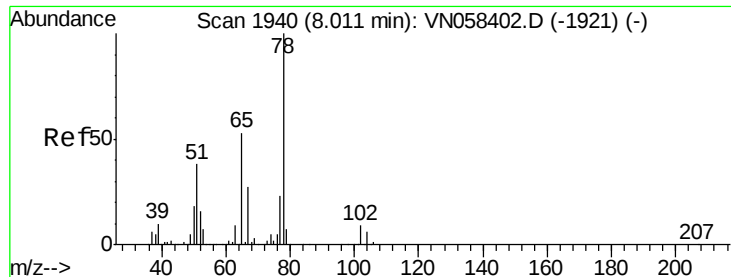
Ion Ratio Lower Upper

56 100

69 154.4 26.2 39.4#

84 119.0 67.6 101.4#





#33

1,2-Dichloroethane-d4

Concen: 49.130 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. 0.00 min

Lab File: VN058435.D

Acq: 30 Sep 2019 15:11

Instrument :

MSVOA\_N

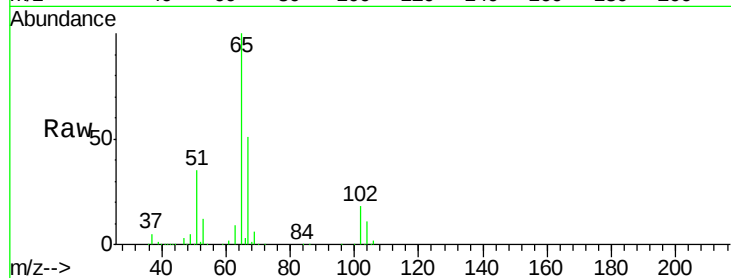
ClientSampled :

Tot Ion: 65 Resp: 311430

Ion Ratio Lower Upper

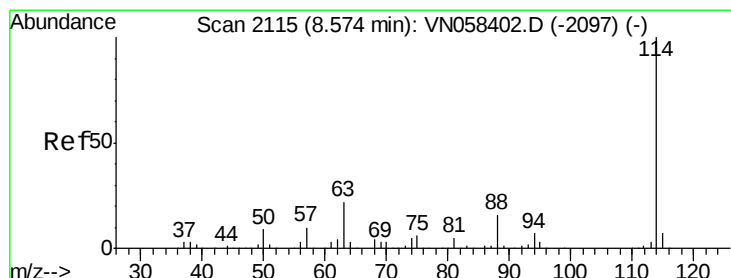
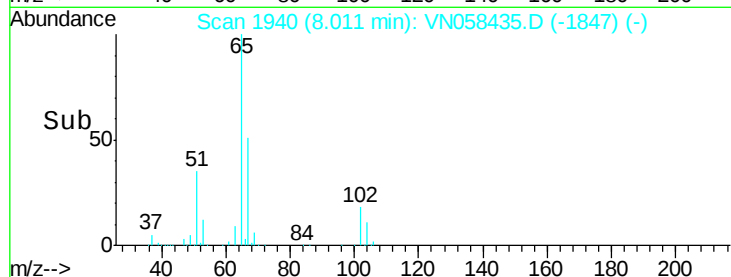
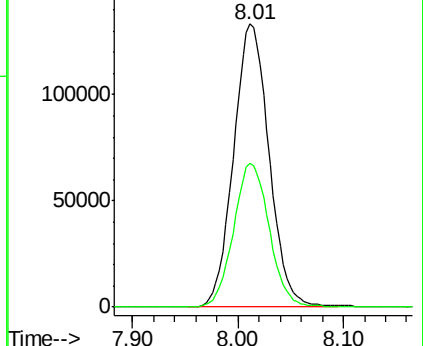
65 100

67 51.1 0.0 102.4



Abundance Ion 64.90 (64.60 to 65.60): VN058435.D (-1847) (-)

Ion 66.90 (66.60 to 67.60): VN058435.D (-1847) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. 0.00 min

Lab File: VN058435.D

Acq: 30 Sep 2019 15:11

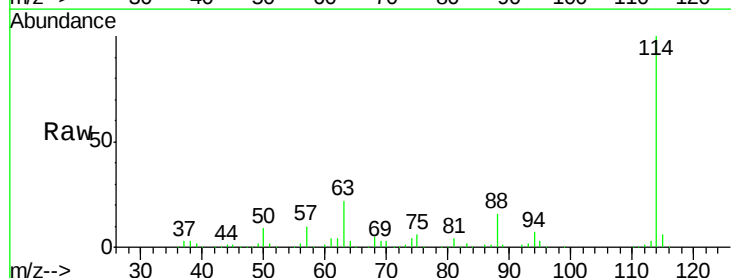
Tgt Ion: 114 Resp: 702443

Ion Ratio Lower Upper

114 100

63 22.1 0.0 45.0

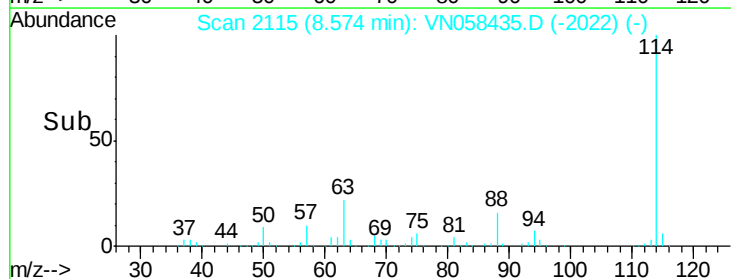
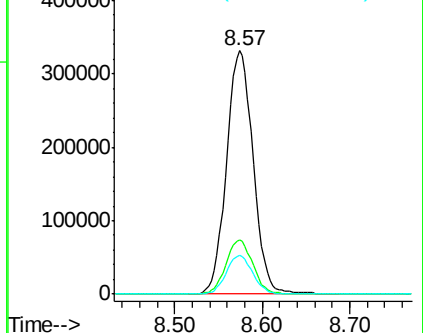
88 15.9 0.0 32.2

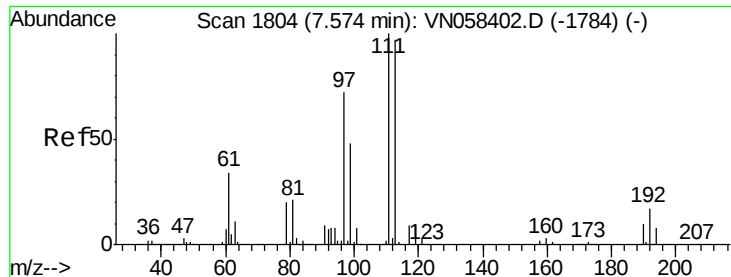


Abundance Ion 113.90 (113.60 to 114.60): VN058435.D (-2022) (-)

Ion 63.00 (62.70 to 63.70): VN058435.D (-2022) (-)

Ion 87.90 (87.60 to 88.60): VN058435.D (-2022) (-)

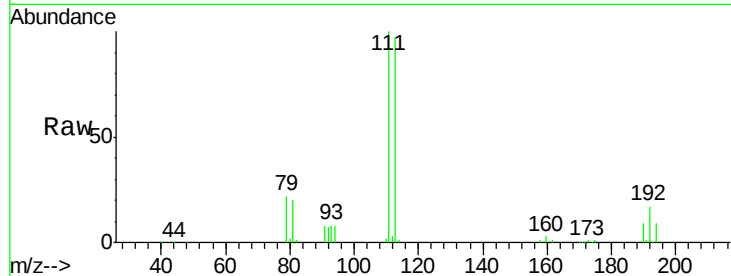




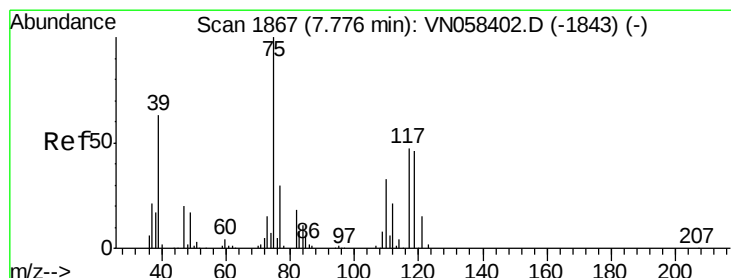
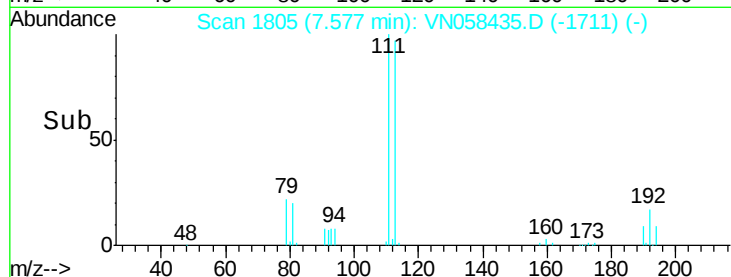
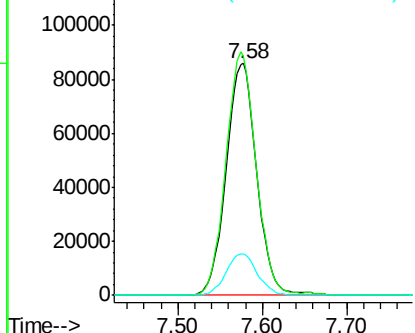
#35  
Dibromofluoromethane  
Concen: 50.270 ug/l  
RT: 7.58 min Scan# 1805  
Delta R.T. 0.00 min  
Lab File: VN058435.D  
Acq: 30 Sep 2019 15:11

Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion:113 Resp: 216421  
Ion Ratio Lower Upper  
113 100  
111 103.0 83.4 125.2  
192 18.2 14.9 22.3

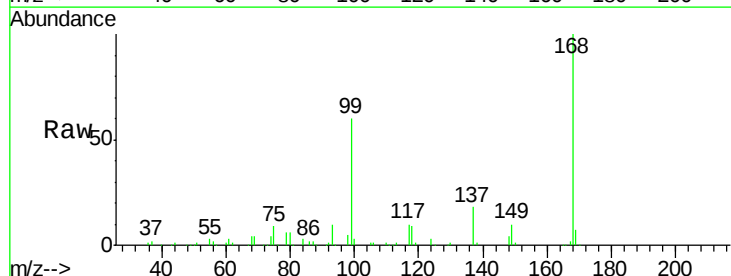


Abundance Ion 112.80 (112.50 to 113.50): V  
Ion 110.80 (110.50 to 111.50): V  
Ion 191.70 (191.40 to 192.40): V

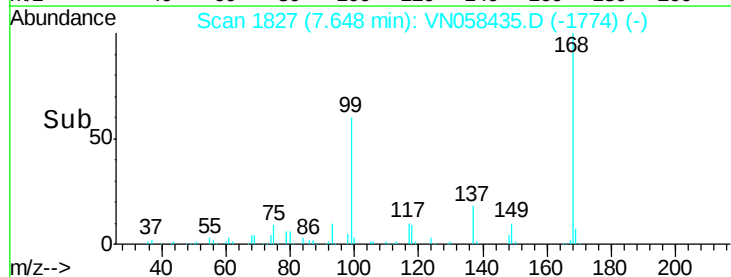
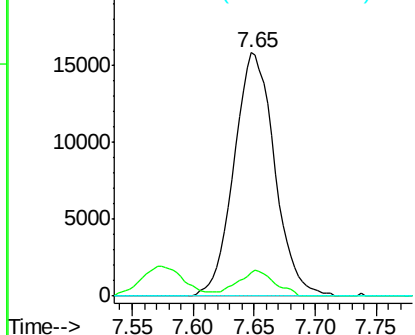


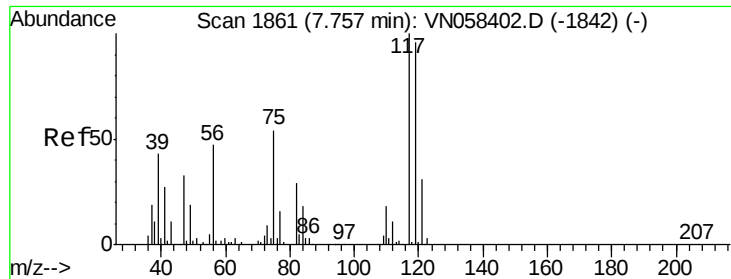
#36  
1,1-Dichloropropene  
Concen: 5.442 ug/l  
RT: 7.65 min Scan# 1827  
Delta R.T. -0.13 min  
Lab File: VN058435.D  
Acq: 30 Sep 2019 15:11

Tgt Ion: 75 Resp: 36554  
Ion Ratio Lower Upper  
75 100  
110 9.5 16.4 49.2#  
77 0.0 24.3 36.5#



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: 7.386 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058435.D

Acq: 30 Sep 2019 15:11

Instrument :

MSVOA\_N

ClientSampleId :

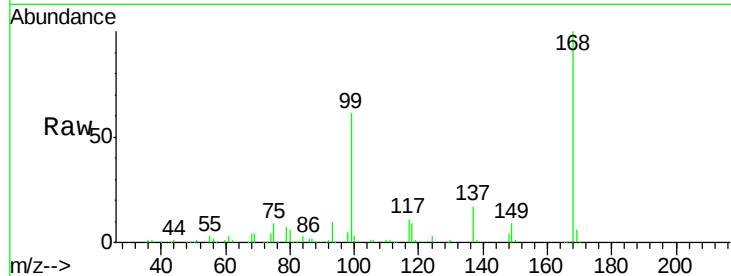
Tot Ion:117 Resp: 44782

Ion Ratio Lower Upper

117 100

119 5.0 76.6 115.0#

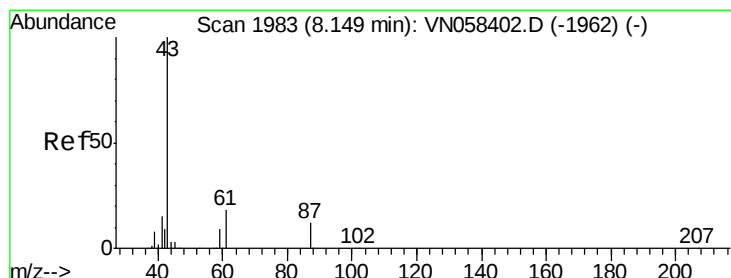
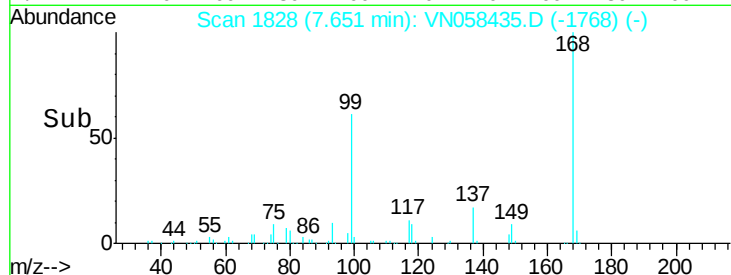
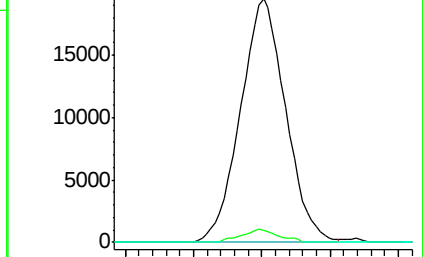
121 0.0 24.7 37.1#



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: 0.560 ug/l

RT: 8.24 min Scan# 2010

Delta R.T. 0.09 min

Lab File: VN058435.D

Acq: 30 Sep 2019 15:11

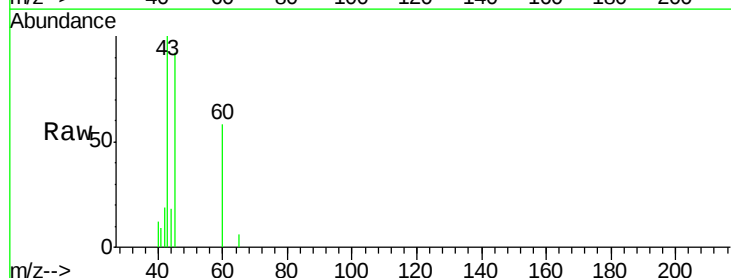
Tgt Ion: 43 Resp: 6001

Ion Ratio Lower Upper

43 100

61 0.0 14.8 22.2#

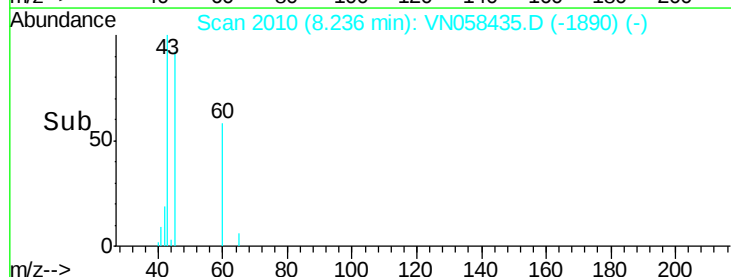
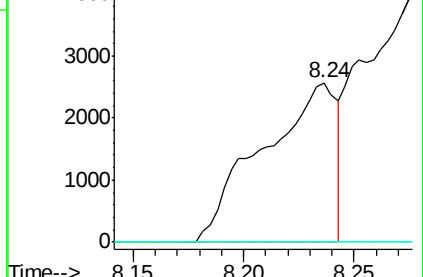
87 0.0 9.7 14.5#

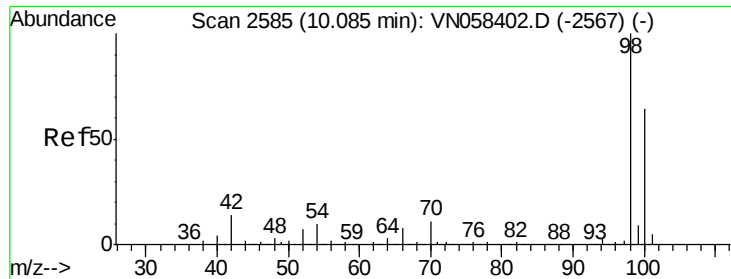


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO





#50

Toluene-d8

Concen: 51.679 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058435.D

Acq: 30 Sep 2019 15:11

Instrument :

MSVOA\_N

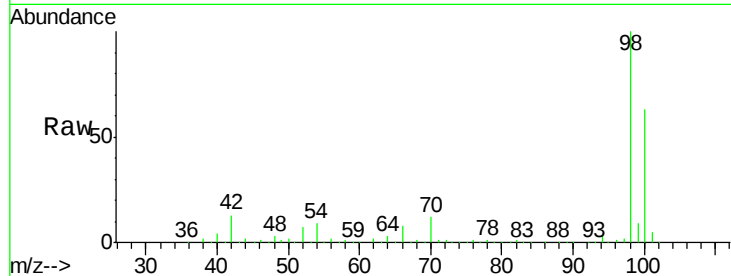
ClientSampled :

Tot Ion: 98 Resp: 871584

Ion Ratio Lower Upper

98 100

100 63.4 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.09

500000

400000

300000

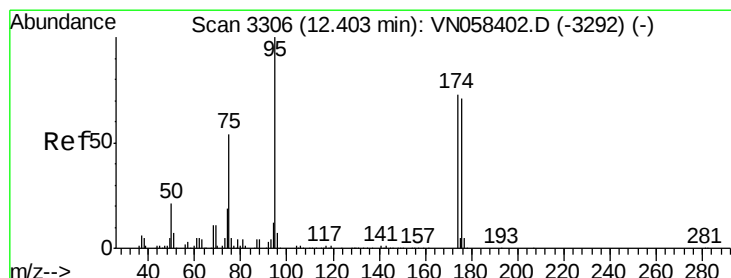
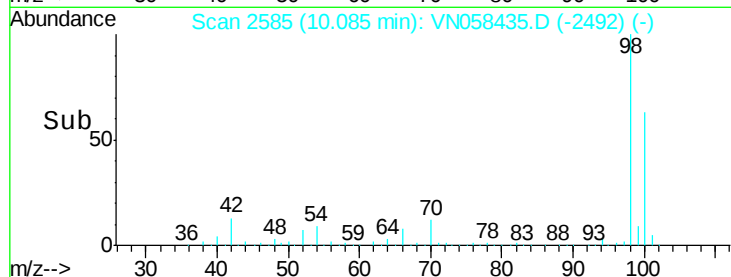
200000

100000

0

Time-->

10.00 10.10 10.20



#62

4-Bromofluorobenzene

Concen: 44.621 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058435.D

Acq: 30 Sep 2019 15:11

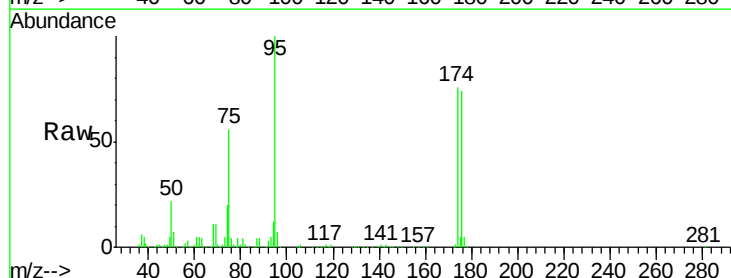
Tgt Ion: 95 Resp: 272109

Ion Ratio Lower Upper

95 100

174 74.7 0.0 150.6

176 72.8 0.0 146.2



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.41

200000

150000

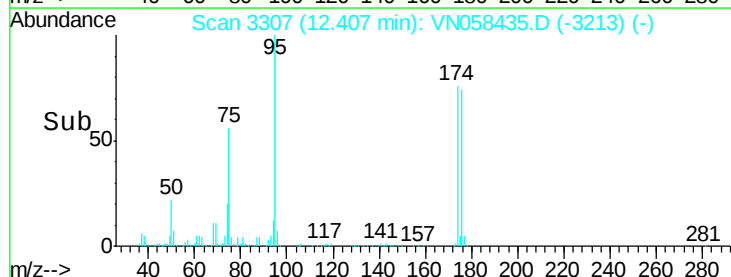
100000

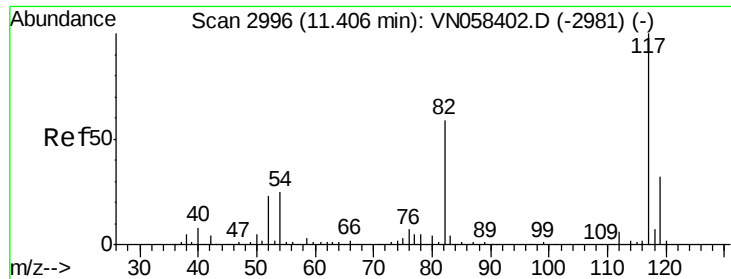
50000

0

Time-->

12.30 12.40 12.50

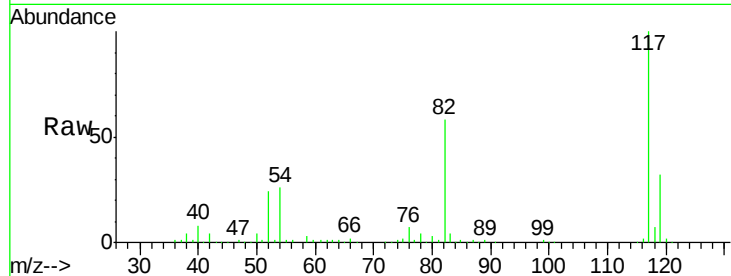




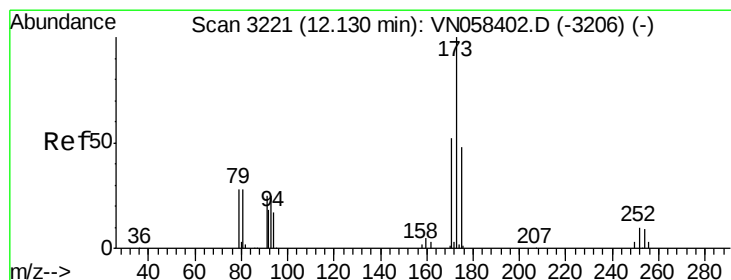
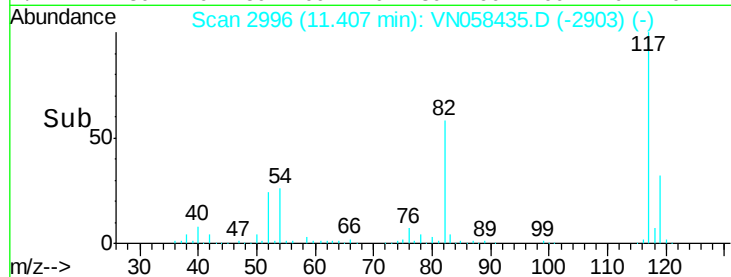
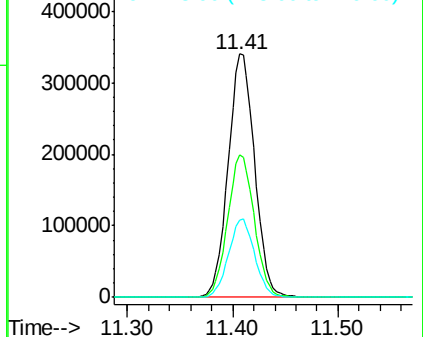
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. 0.00 min  
Lab File: VN058435.D  
Acq: 30 Sep 2019 15:11

Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion:117 Resp: 590577  
Ion Ratio Lower Upper  
117 100  
82 58.5 47.4 71.0  
119 32.0 25.5 38.3

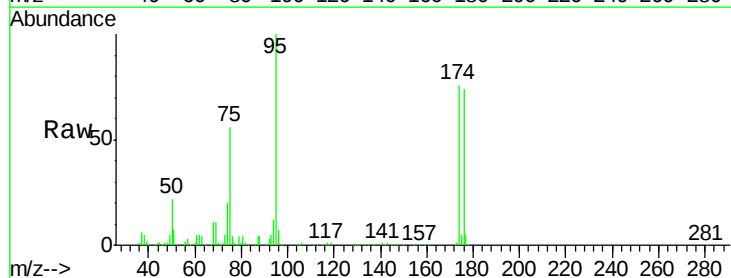


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

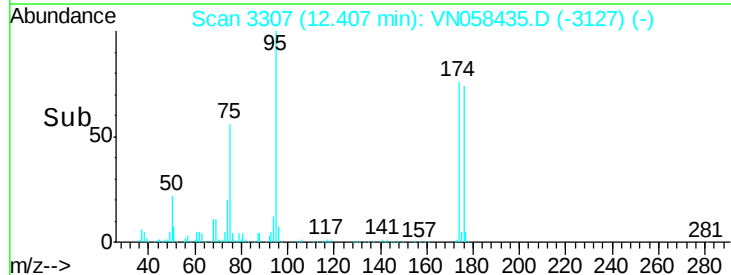
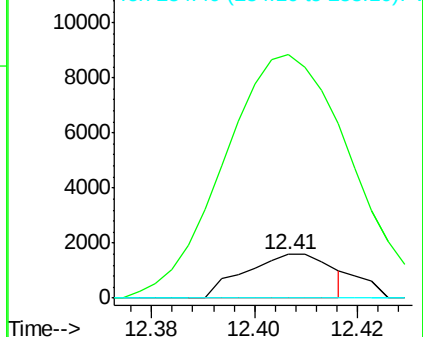


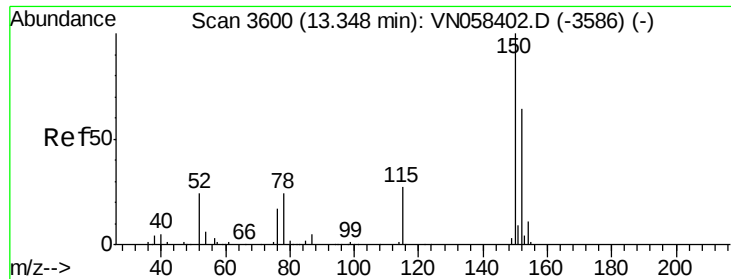
#71  
Bromoform  
Concen: 1.358 ug/l  
RT: 12.41 min Scan# 3307  
Delta R.T. 0.28 min  
Lab File: VN058435.D  
Acq: 30 Sep 2019 15:11

Tgt Ion:173 Resp: 1839  
Ion Ratio Lower Upper  
173 100  
175 689.5 24.3 73.0#  
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: VN058435.D

Acq: 30 Sep 2019 15:11

Instrument :

MSVOA\_N

ClientSampled :

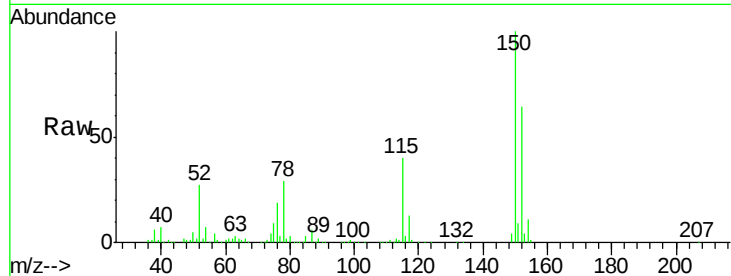
Tot Ion:152 Resp: 226632

Ion Ratio Lower Upper

152 100

115 61.9 30.0 90.0

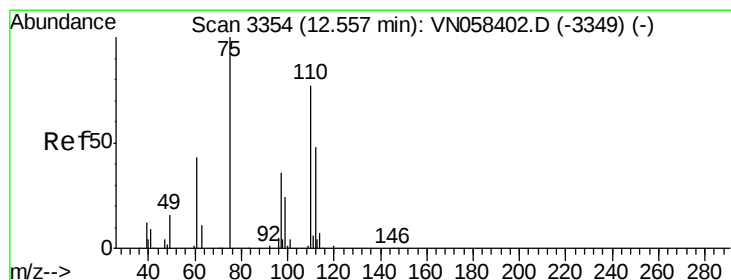
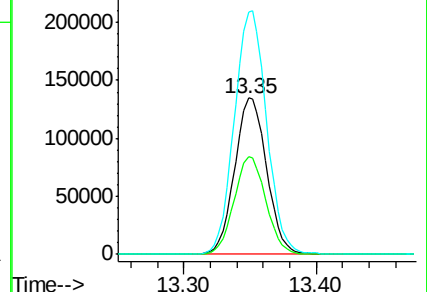
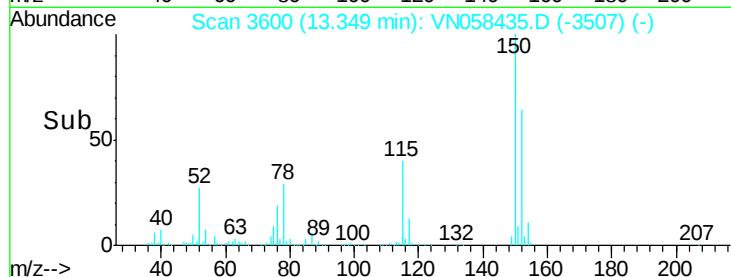
150 157.0 0.0 348.2



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



#76

1,2,3-Trichloropropane

Concen: 36.531 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058435.D

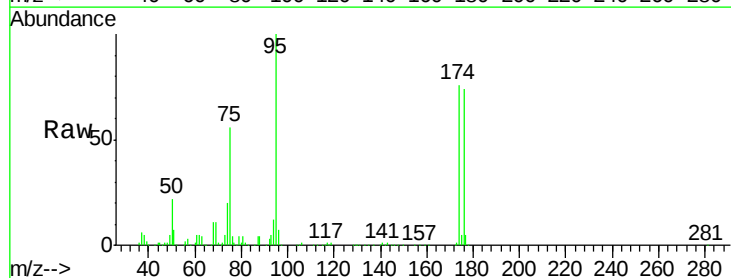
Acq: 30 Sep 2019 15:11

Tgt Ion: 75 Resp: 151218

Ion Ratio Lower Upper

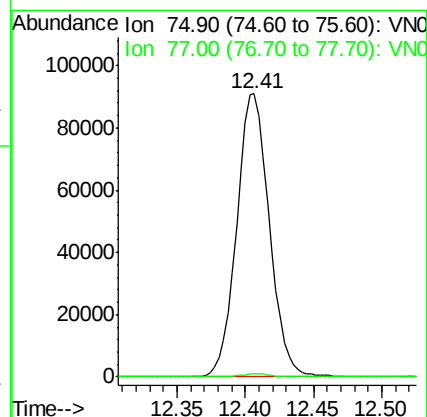
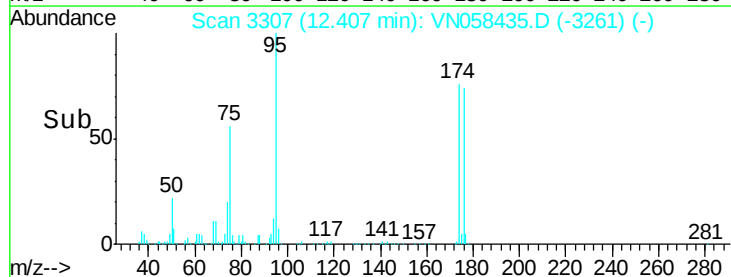
75 100

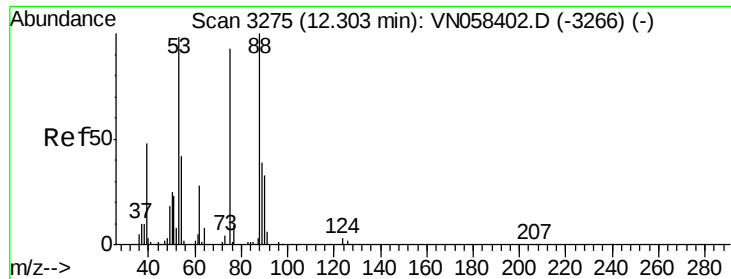
77 1.0 0.0 0.0#



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: 110.949 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058435.D

Acq: 30 Sep 2019 15:11

Instrument :

MSVOA\_N

ClientSampleId :

Tot Ion: 75 Resp: 151218

Ion Ratio Lower Upper

75 100

53 0.0 85.4 128.0#

89 0.0 35.0 52.4#

