

Data File : VN058867.D  
Acq On : 18 Oct 2019 18:39  
Operator : JC/SP  
Sample : K5452-10  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
FA19-MMW0423

Quant Time: Oct 21 08:02:19 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N101819W.M  
Quant Title : SW846 8260  
QLast Update : Sat Oct 19 00:16:20 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.65  | 168  | 405801   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 637978   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 565563   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 208112   | 50.00 | ug/l  | 0.00     |

System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.01   | 65  | 306551   | 51.51 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.02% |      |
| 35) Dibromofluoromethane  | 7.57   | 113 | 215525   | 51.38 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.76% |      |
| 50) Toluene-d8            | 10.09  | 98  | 815135   | 50.06 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.12% |      |
| 62) 4-Bromofluorobenzene  | 12.40  | 95  | 256803   | 42.95 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 85.90%  |      |

Target Compounds

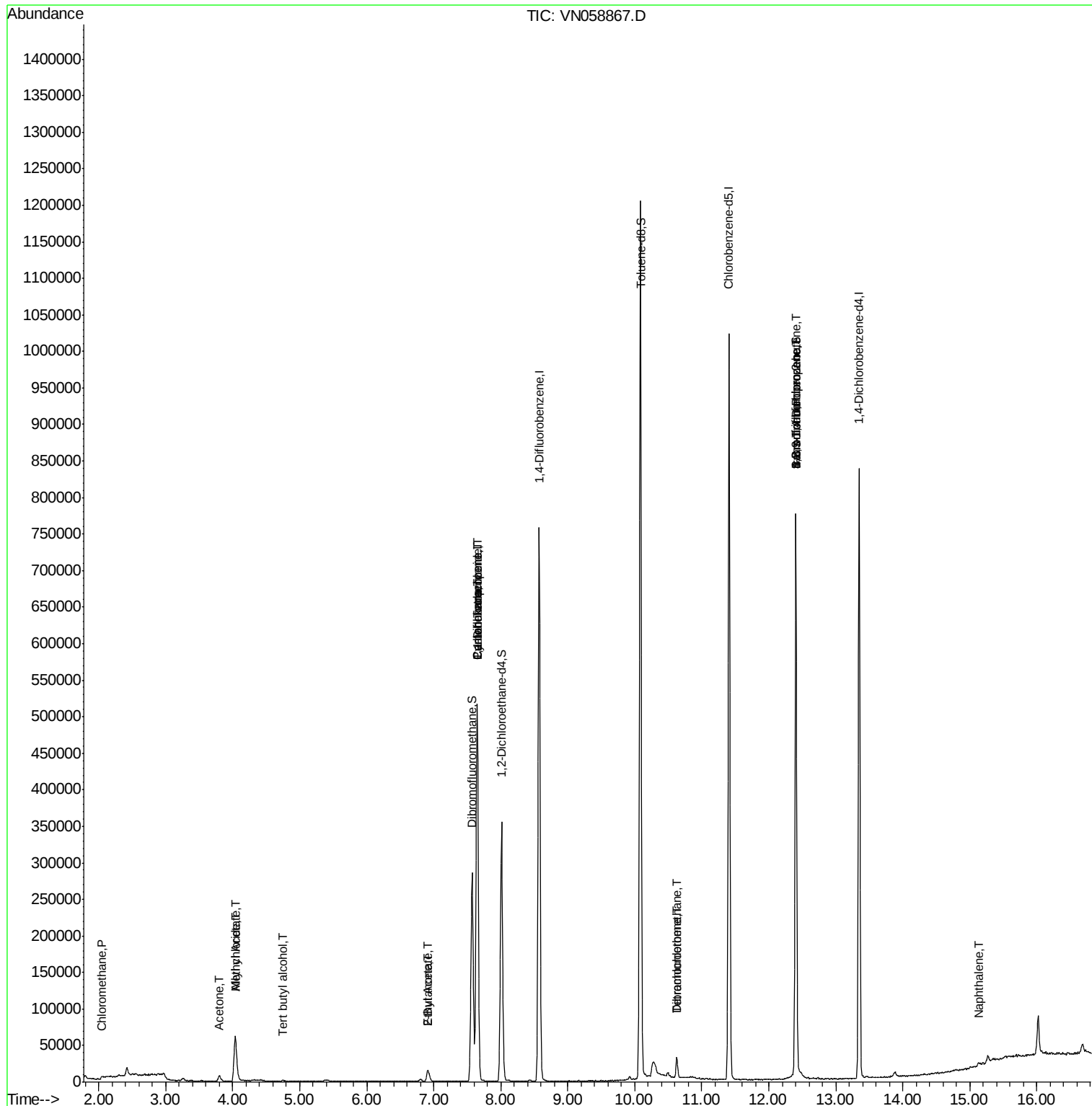
|                                |       |     |        |        |        | Qvalue |
|--------------------------------|-------|-----|--------|--------|--------|--------|
| 3) Chloromethane               | 2.04  | 50  | 2218   | 0.354  | ug/l   | 98     |
| 11) Tert butyl alcohol         | 4.74  | 59  | 1068   | 1.081  | ug/l # | 72     |
| 14) Allyl chloride             | 4.04  | 41  | 9316   | 1.151  | ug/l # | 77     |
| 16) Acetone                    | 3.80  | 43  | 12882  | 4.380  | ug/l   | 93     |
| 18) Methyl Acetate             | 4.04  | 43  | 23651  | 3.537  | ug/l # | 55     |
| 25) 2-Butanone                 | 6.91  | 43  | 26077  | 6.831  | ug/l # | 51     |
| 31) Cyclohexane                | 7.65  | 56  | 9931   | 1.161  | ug/l # | 8      |
| 36) 1,1-Dichloropropene        | 7.65  | 75  | 33752  | 5.168  | ug/l # | 51     |
| 37) Ethyl Acetate              | 6.91  | 43  | 26077  | 3.664  | ug/l   | 99     |
| 38) Carbon Tetrachloride       | 7.65  | 117 | 40768  | 6.059  | ug/l # | 17     |
| 60) Dibromochloromethane       | 10.63 | 129 | 6222   | 1.234  | ug/l # | 10     |
| 64) Tetrachloroethene          | 10.62 | 164 | 6237   | 1.575  | ug/l   | 91     |
| 71) Bromoform                  | 12.41 | 173 | 1538   | 0.456  | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75  | 139988 | 29.024 | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75  | 139988 | 75.609 | ug/l # | 10     |
| 95) Naphthalene                | 15.13 | 128 | 378    | 2.256  | ug/l # | 70     |

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN058867.D

Acq: 18 Oct 2019 18:39

Instrument :

MSVOA\_N

ClientSampleId :

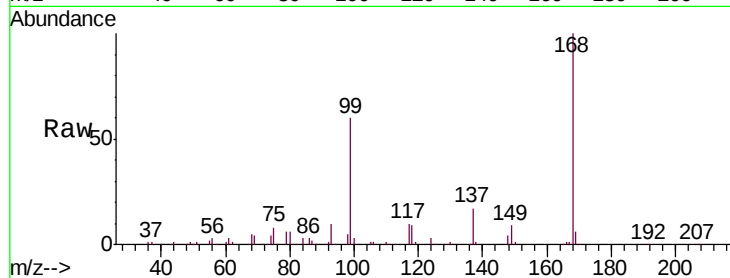
FA19-MMW0423

Tgt Ion: 168 Resp: 405801

Ion Ratio Lower Upper

168 100

99 59.9 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

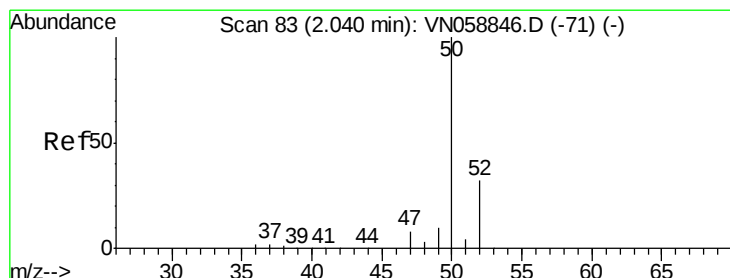
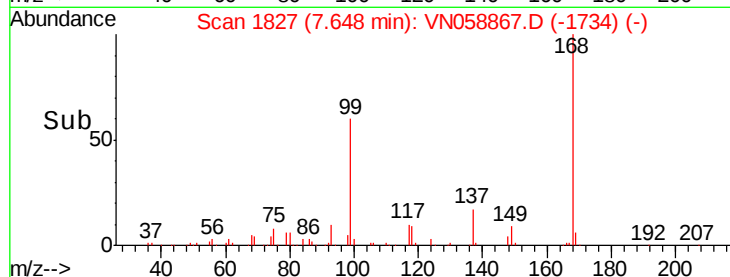
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#3

Chloromethane

Concen: 0.354 ug/l

RT: 2.04 min Scan# 84

Delta R.T. 0.00 min

Lab File: VN058867.D

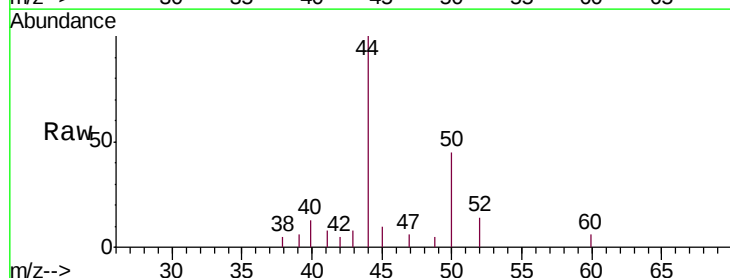
Acq: 18 Oct 2019 18:39

Tgt Ion: 50 Resp: 2218

Ion Ratio Lower Upper

50 100

52 31.3 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

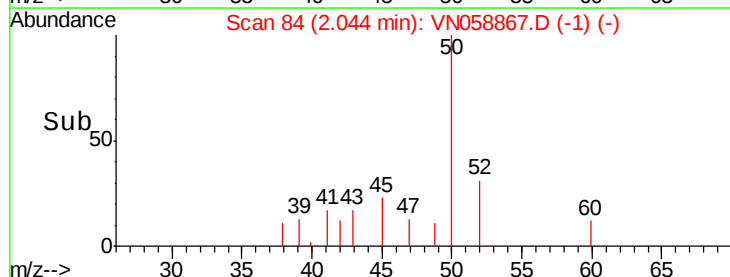
1500

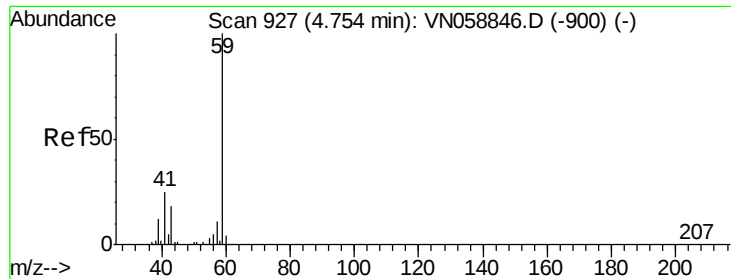
1000

500

0

Time--> 2.00 2.05

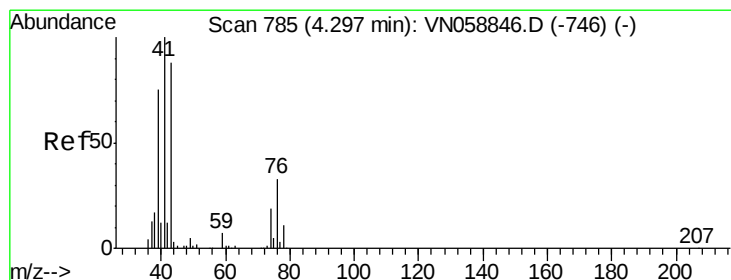
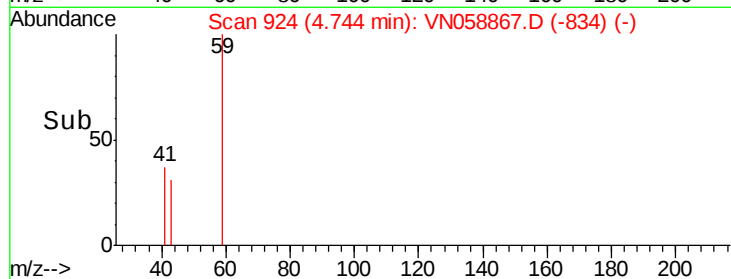
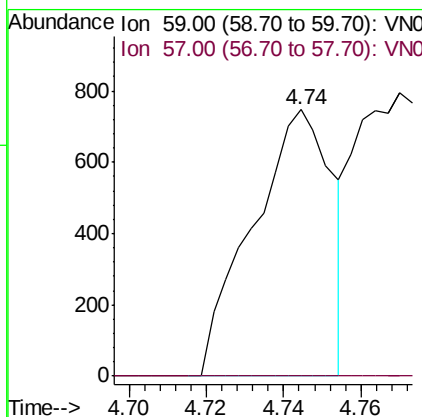
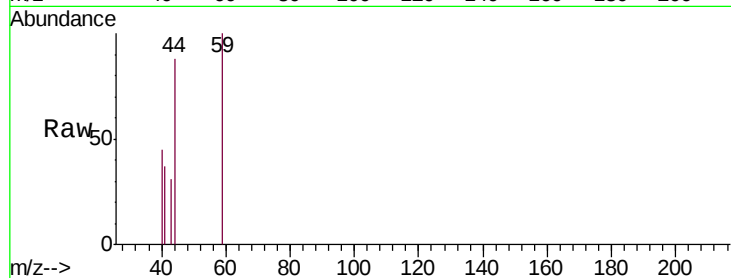




#11  
Tert butyl alcohol  
Concen: 1.081 ug/l  
RT: 4.74 min Scan# 924  
Delta R.T. -0.01 min  
Lab File: VN058867.D  
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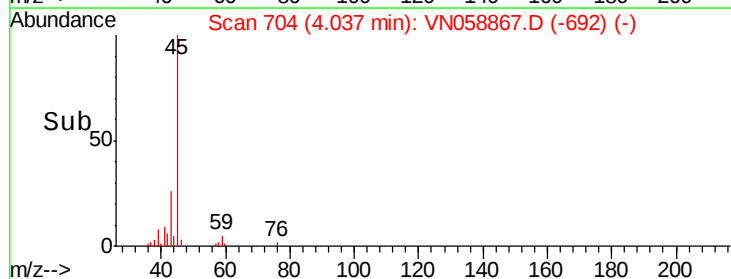
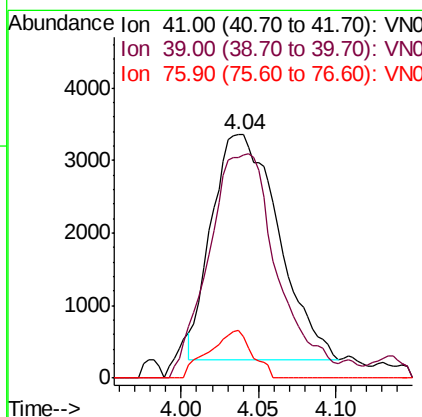
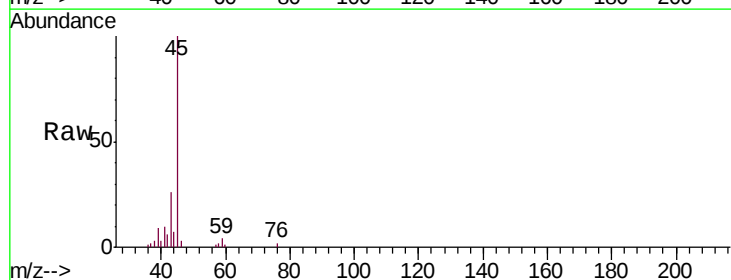
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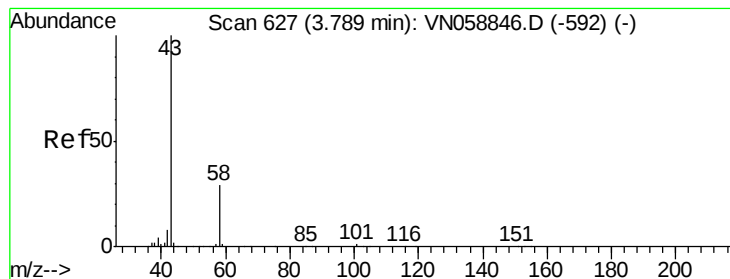
Tgt Ion: 59 Resp: 1068  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.6 12.8#



#14  
Allyl chloride  
Concen: 1.151 ug/l  
RT: 4.04 min Scan# 704  
Delta R.T. -0.26 min  
Lab File: VN058867.D  
Acq: 18 Oct 2019 18:39

Tgt Ion: 41 Resp: 9316  
Ion Ratio Lower Upper  
41 100  
39 86.2 55.9 83.9#  
76 13.2 24.1 36.1#





#16

Acetone

Concen: 4.380 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN058867.D

Acq: 18 Oct 2019 18:39

Instrument :

MSVOA\_N

ClientSampleId :

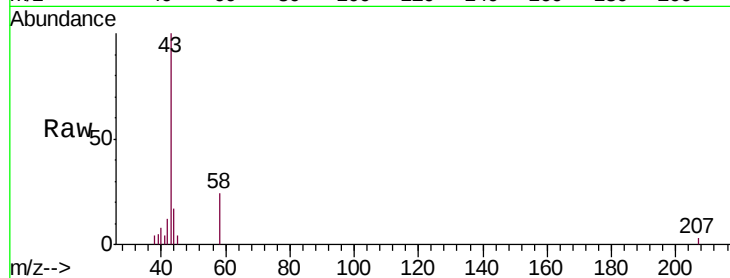
FA19-MMW0423

Tgt Ion: 43 Resp: 12882

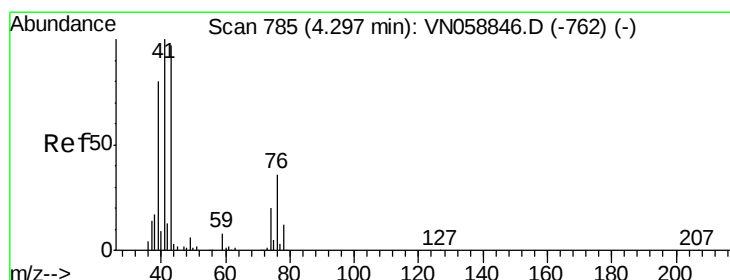
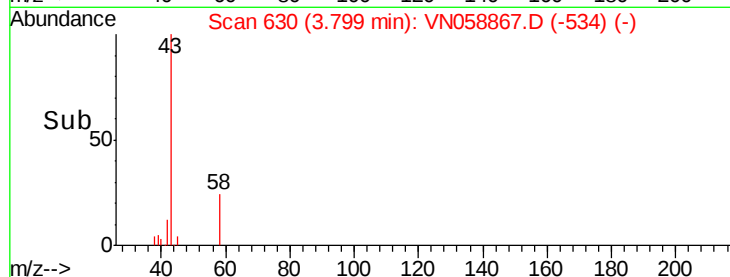
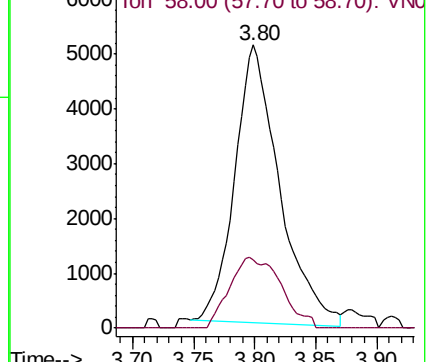
Ion Ratio Lower Upper

43 100

58 25.1 23.1 34.7



Abundance Ion 43.00 (42.70 to 43.70): VN058867.D (-630) (-)



#18

Methyl Acetate

Concen: 3.537 ug/l

RT: 4.04 min Scan# 705

Delta R.T. -0.26 min

Lab File: VN058867.D

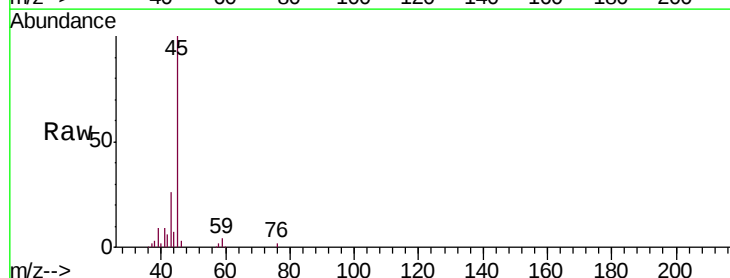
Acq: 18 Oct 2019 18:39

Tgt Ion: 43 Resp: 23651

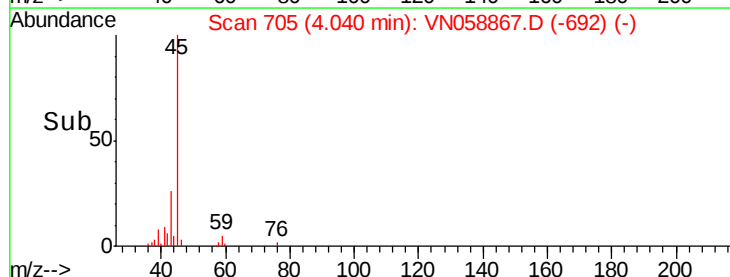
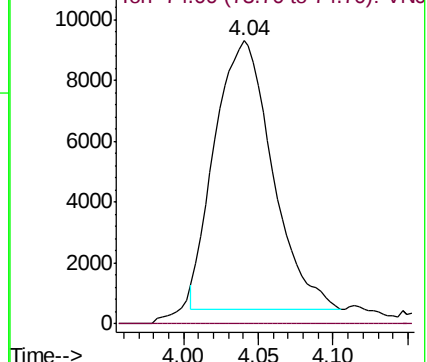
Ion Ratio Lower Upper

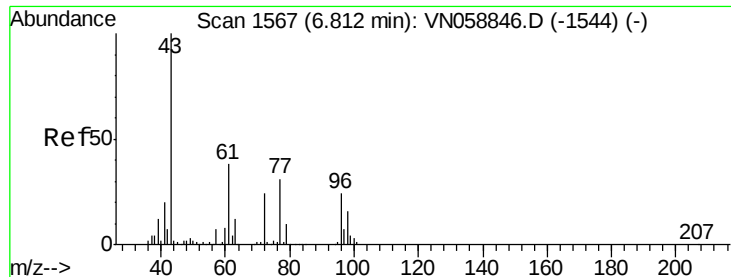
43 100

74 0.0 17.1 25.7#



Abundance Ion 43.00 (42.70 to 43.70): VN058867.D (-692) (-)

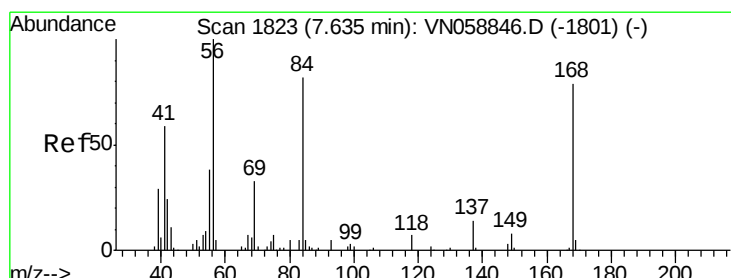
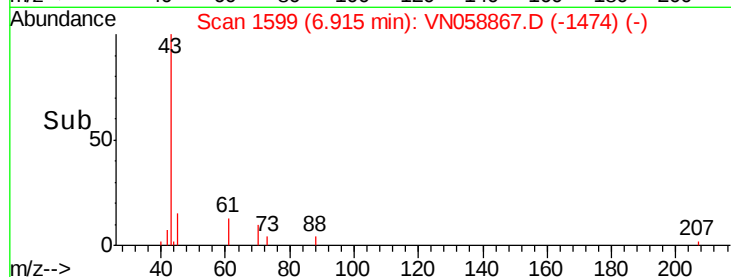
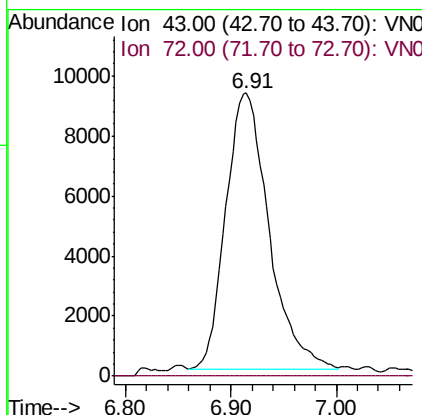
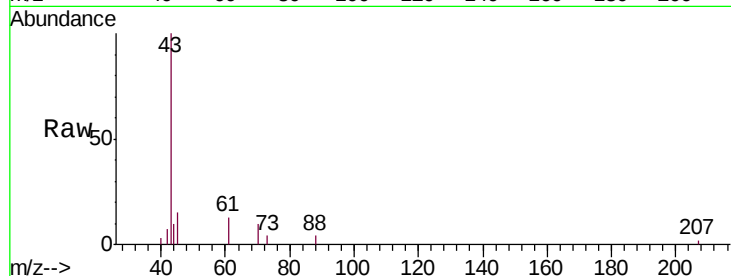




#25  
2-Butanone  
Concen: 6.831 ug/l  
RT: 6.91 min Scan# 1599  
Delta R.T. 0.10 min  
Lab File: VN058867.D  
Acq: 18 Oct 2019 18:39

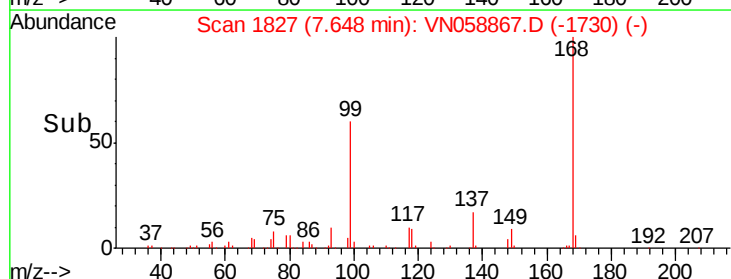
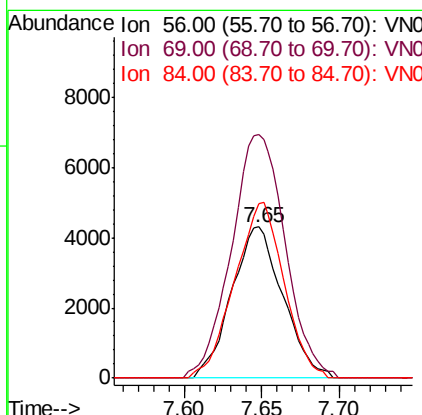
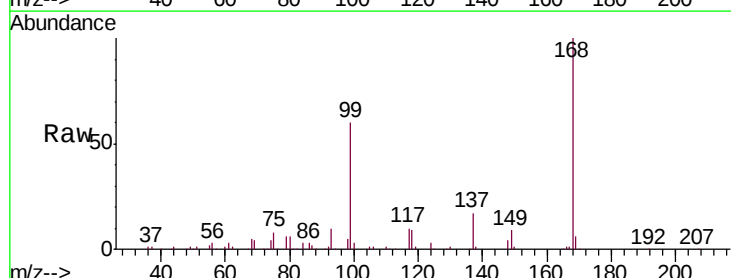
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MSVOA\_N  
ClientSampleId :  
FA19-MMW0423

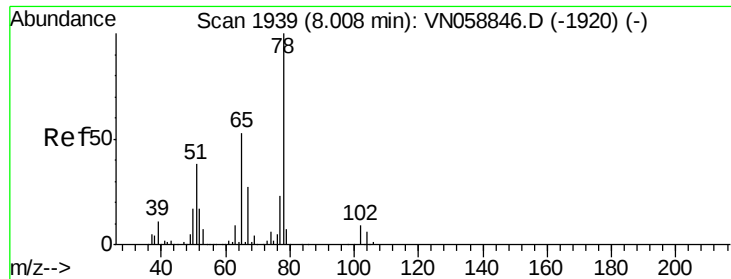
Tgt Ion: 43 Resp: 26077  
Ion Ratio Lower Upper  
43 100  
72 0.0 19.1 28.7#



#31  
Cyclohexane  
Concen: 1.161 ug/l  
RT: 7.65 min Scan# 1827  
Delta R.T. 0.01 min  
Lab File: VN058867.D  
Acq: 18 Oct 2019 18:39

Tgt Ion: 56 Resp: 9931  
Ion Ratio Lower Upper  
56 100  
69 161.1 26.2 39.4#  
84 115.3 65.6 98.4#

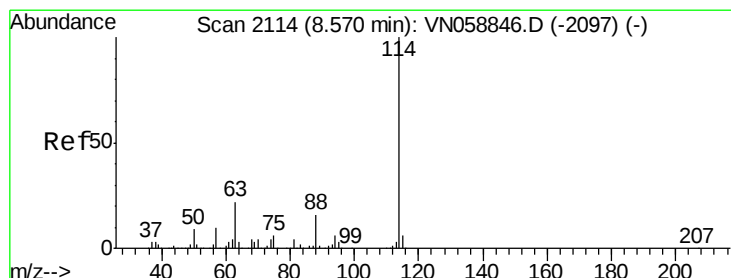
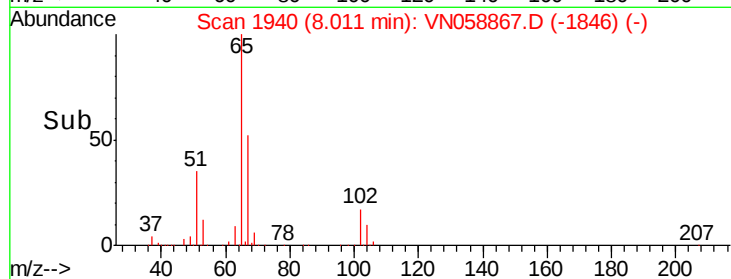
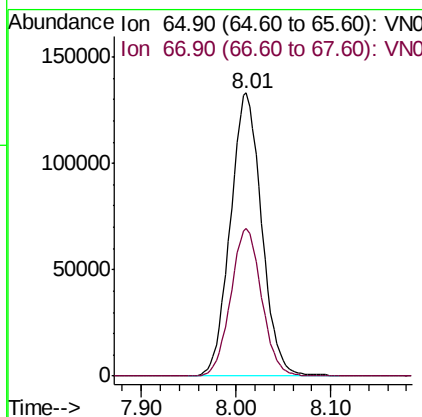
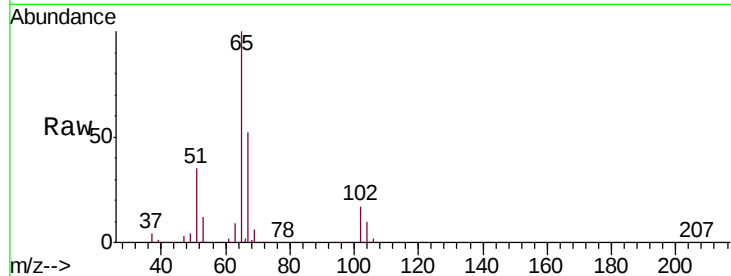




#33  
 1,2-Dichloroethane-d4  
 Concen: 51.506 ug/l  
 RT: 8.01 min Scan# 1940  
 Delta R.T. 0.00 min  
 Lab File: VN058867.D  
 Acq: 18 Oct 2019 18:39

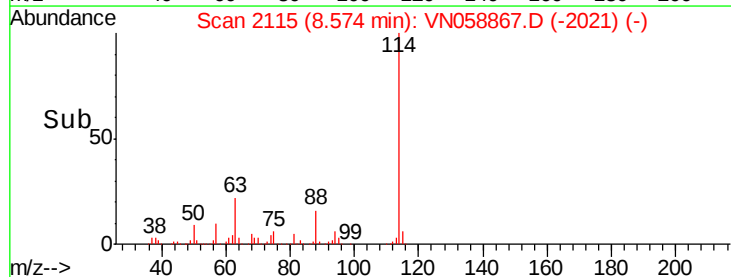
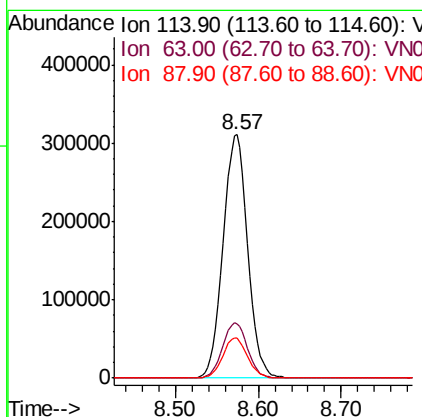
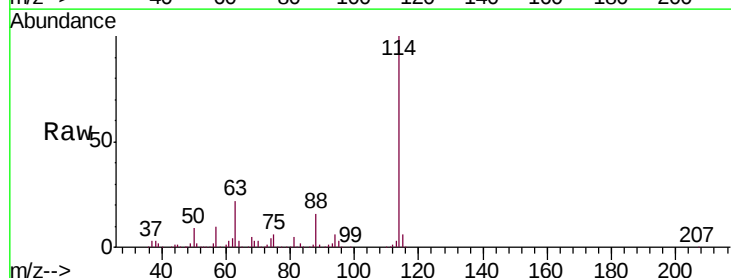
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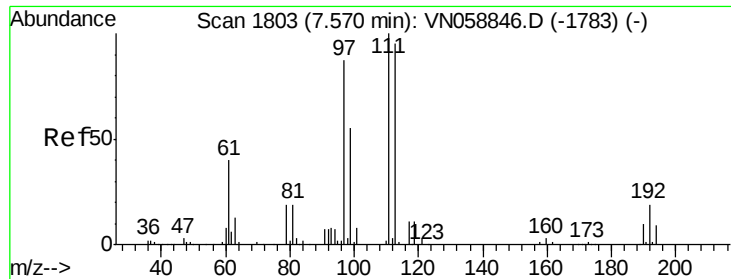
Tgt Ion: 65 Resp: 306551  
 Ion Ratio Lower Upper  
 65 100  
 67 51.4 0.0 103.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.57 min Scan# 2115  
 Delta R.T. 0.00 min  
 Lab File: VN058867.D  
 Acq: 18 Oct 2019 18:39

Tgt Ion: 114 Resp: 637978  
 Ion Ratio Lower Upper  
 114 100  
 63 22.4 0.0 44.4  
 88 16.3 0.0 31.4

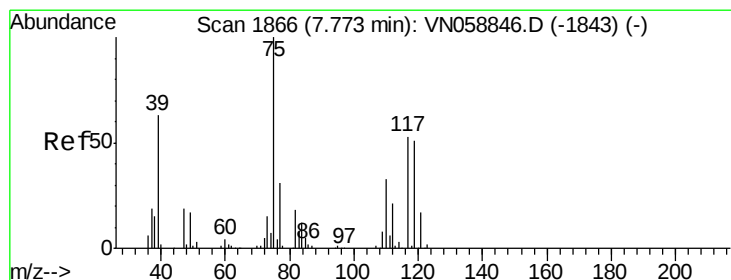
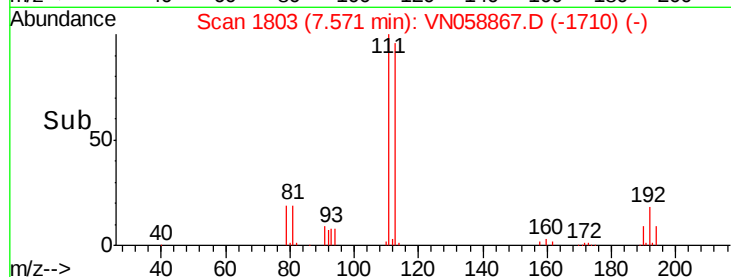
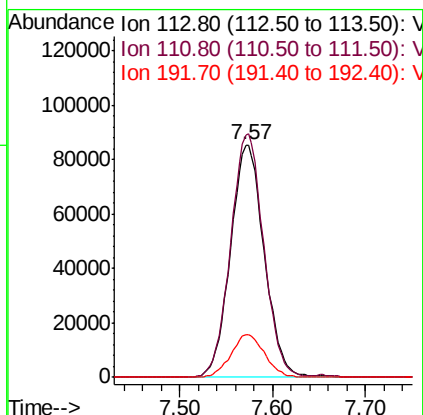
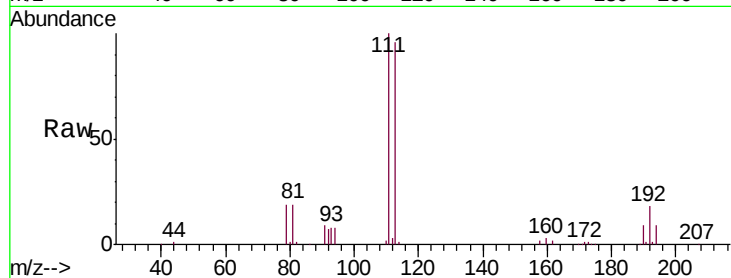




#35  
Dibromofluoromethane  
Concen: 51.382 ug/l  
RT: 7.57 min Scan# 1803  
Delta R.T. 0.00 min  
Lab File: VN058867.D  
Acq: 18 Oct 2019 18:39

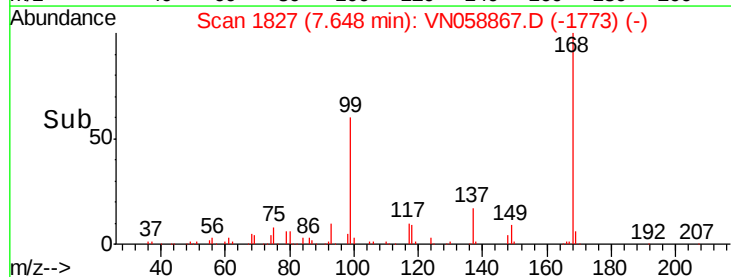
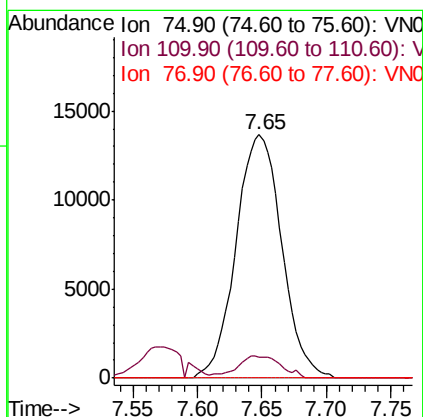
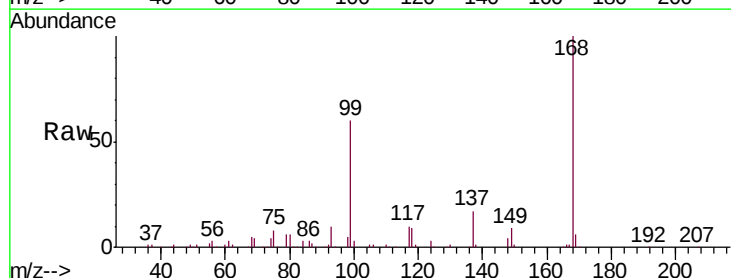
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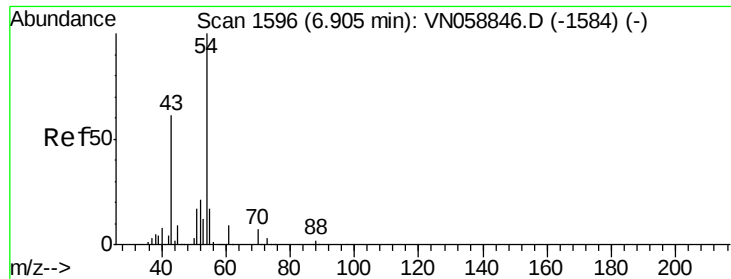
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.6 | 82.0  | 123.0 |
| 192     | 18.4  | 15.0  | 22.6  |



#36  
1,1-Dichloropropene  
Concen: 5.168 ug/l  
RT: 7.65 min Scan# 1827  
Delta R.T. -0.13 min  
Lab File: VN058867.D  
Acq: 18 Oct 2019 18:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.6   | 16.3  | 48.9# |
| 77      | 0.0   | 24.6  | 36.8# |

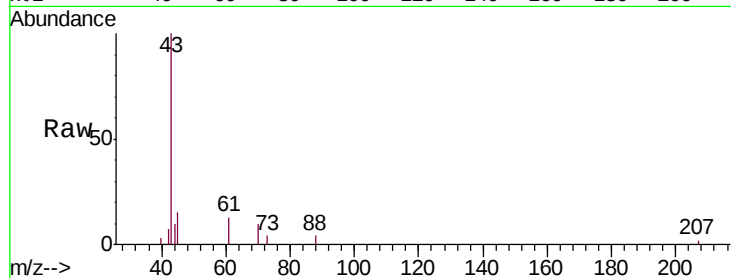




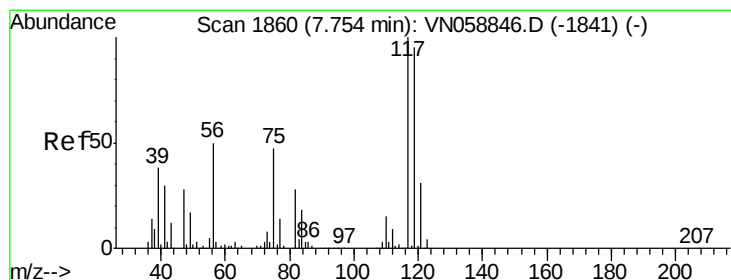
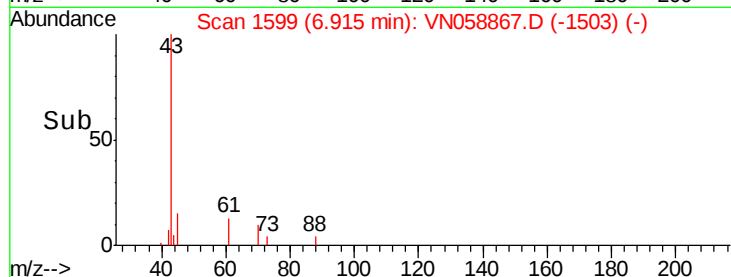
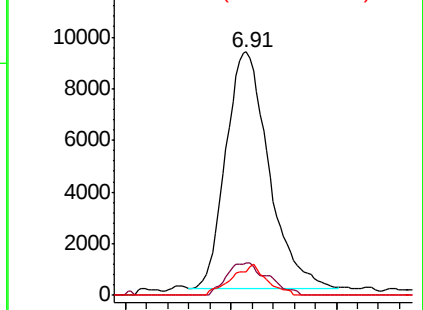
#37  
 Ethyl Acetate  
 Concen: 3.664 ug/l  
 RT: 6.91 min Scan# 1599  
 Delta R.T. 0.01 min  
 Lab File: VN058867.D  
 Acq: 18 Oct 2019 18:39

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 FA19-MMW0423

Tgt Ion: 43 Resp: 26077  
 Ion Ratio Lower Upper  
 43 100  
 61 13.3 10.5 15.7  
 70 10.5 7.6 11.4

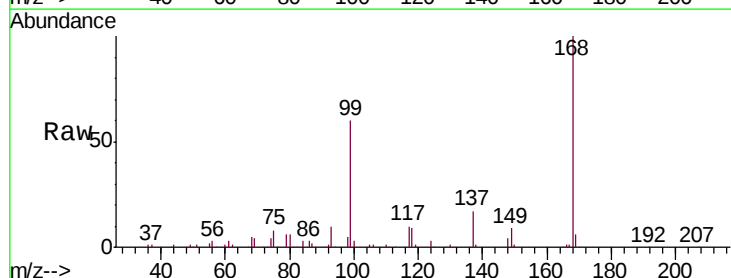


Abundance Ion 43.00 (42.70 to 43.70): VN0  
 Ion 60.90 (60.60 to 61.60): VN0  
 Ion 70.00 (69.70 to 70.70): VN0

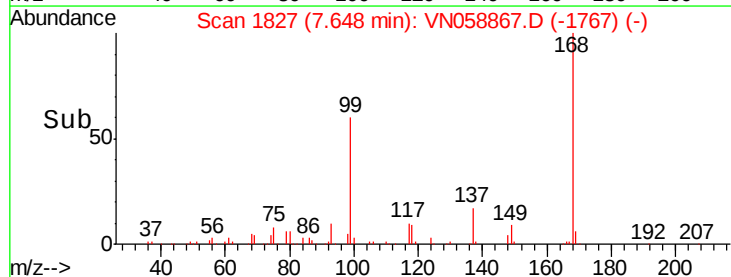
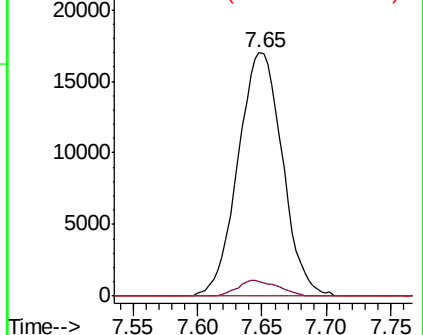


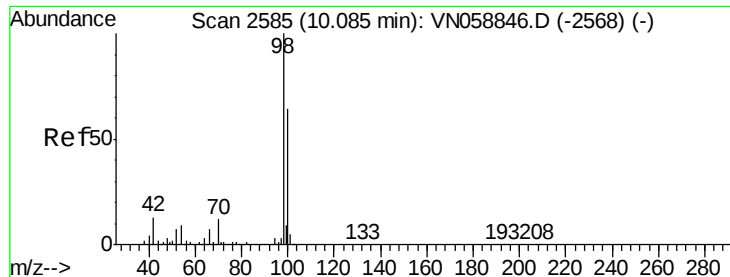
#38  
 Carbon Tetrachloride  
 Concen: 6.059 ug/l  
 RT: 7.65 min Scan# 1827  
 Delta R.T. -0.11 min  
 Lab File: VN058867.D  
 Acq: 18 Oct 2019 18:39

Tgt Ion: 117 Resp: 40768  
 Ion Ratio Lower Upper  
 117 100  
 119 6.2 75.7 113.5#  
 121 0.0 25.0 37.6#



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: 50.062 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058867.D

Acq: 18 Oct 2019 18:39

Instrument :

MSVOA\_N

ClientSampleId :

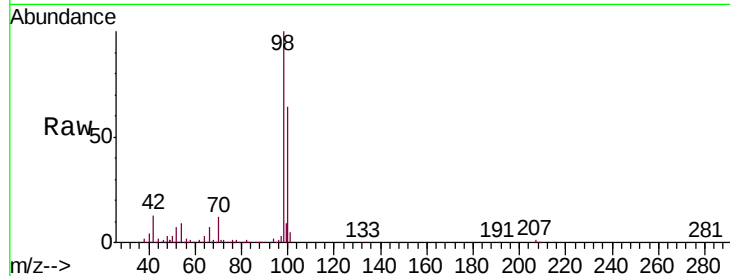
FA19-MMW0423

Tgt Ion: 98 Resp: 815135

Ion Ratio Lower Upper

98 100

100 63.7 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN058846.D (-2568) (-)

Ion 100.00 (99.70 to 100.70): VN058846.D (-2568) (-)

10.09

400000

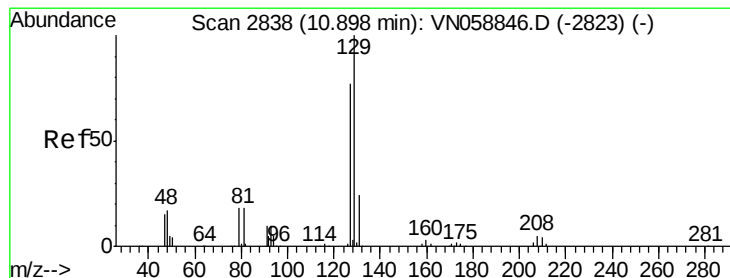
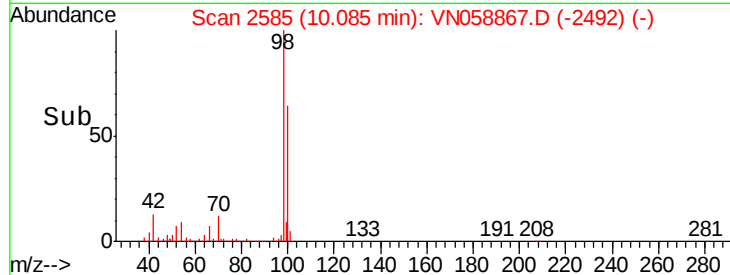
300000

200000

100000

0

Time-->



#60

Dibromochloromethane

Concen: 1.234 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. -0.27 min

Lab File: VN058867.D

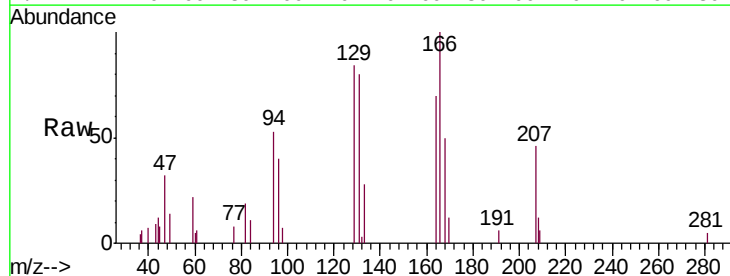
Acq: 18 Oct 2019 18:39

Tgt Ion: 129 Resp: 6222

Ion Ratio Lower Upper

129 100

127 0.0 39.1 117.3#



Abundance Ion 128.80 (128.50 to 129.50): VN058846.D (-2823) (-)

Ion 126.80 (126.50 to 127.50): VN058846.D (-2823) (-)

10.63

4000

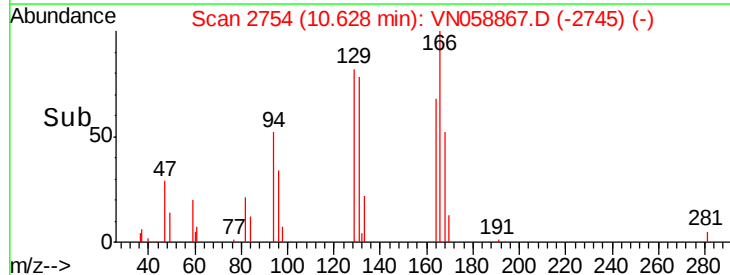
3000

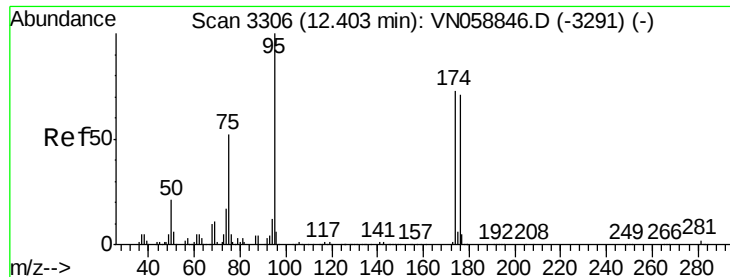
2000

1000

0

Time-->





#62

4-Bromofluorobenzene

Concen: 42.948 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058867.D

Acq: 18 Oct 2019 18:39

Instrument :

MSVOA\_N

ClientSampleId :

FA19-MMW0423

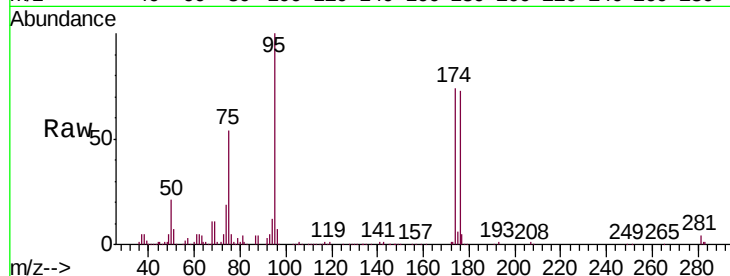
Tgt Ion: 95 Resp: 256803

Ion Ratio Lower Upper

95 100

174 75.4 0.0 147.6

176 74.2 0.0 143.2



Abundance Ion 94.90 (94.60 to 95.60): VN058846.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN058846.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN058846.D (-3291) (-)

12.40

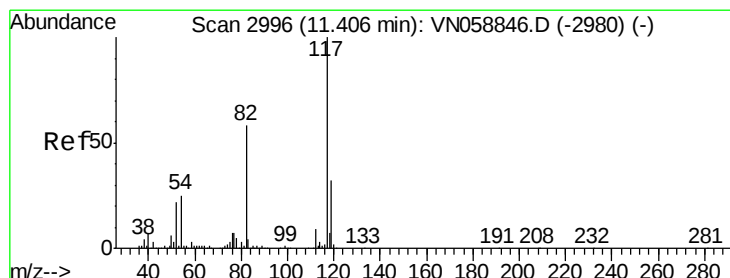
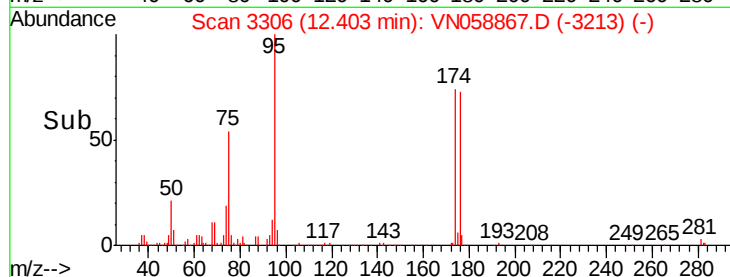
150000

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: VN058867.D

Acq: 18 Oct 2019 18:39

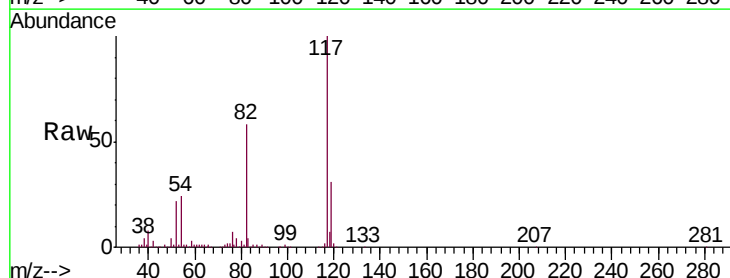
Tgt Ion: 117 Resp: 565563

Ion Ratio Lower Upper

117 100

82 58.2 46.6 69.8

119 31.5 25.6 38.4



Abundance Ion 116.90 (116.60 to 117.60): VN058846.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN058846.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN058846.D (-2980) (-)

11.41

400000

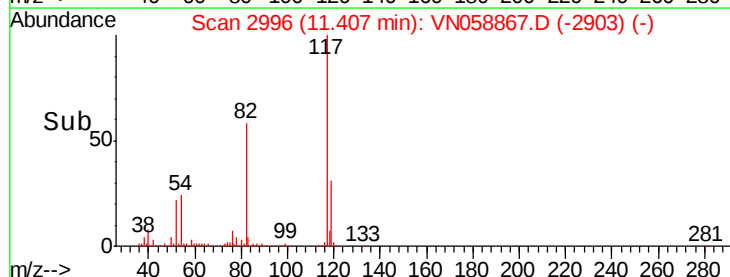
300000

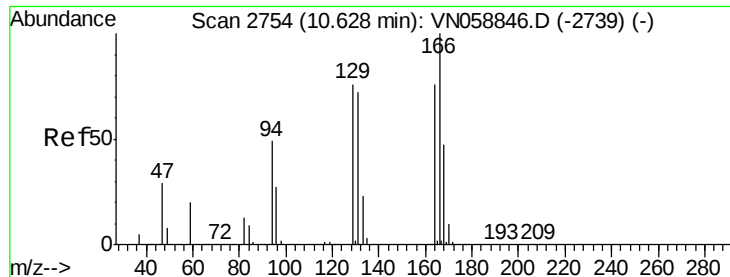
200000

100000

0

Time--> 11.30 11.40 11.50





#64

Tetrachloroethene

Concen: 1.575 ug/l

RT: 10.62 min Scan# 2752

Delta R.T. -0.01 min

Lab File: VN058867.D

Acq: 18 Oct 2019 18:39

Instrument :

MSVOA\_N

ClientSampleId :

FA19-MMW0423

Tgt Ion:164 Resp: 6237

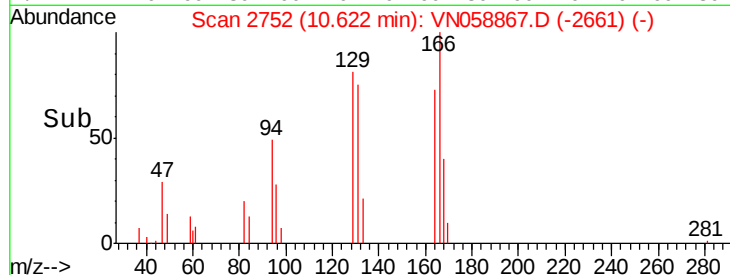
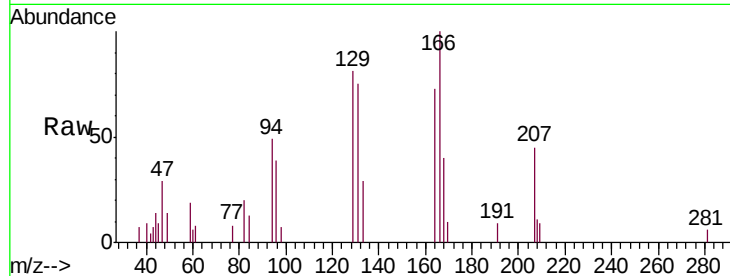
Ion Ratio Lower Upper

164 100

166 137.5 104.8 157.2

129 111.5 79.3 118.9

131 103.6 75.8 113.6

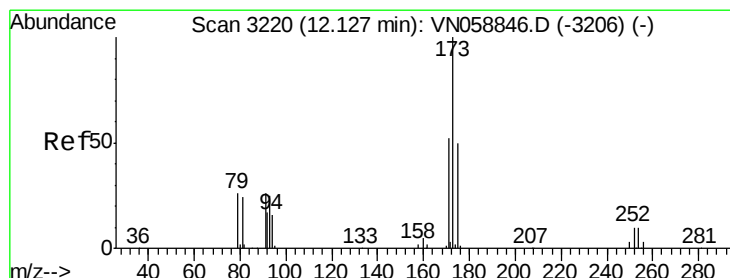
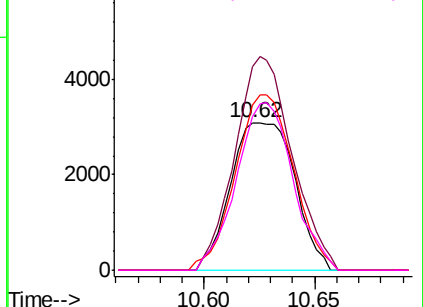


Abundance Ion 163.80 (163.50 to 164.50): V

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



#71

Bromoform

Concen: 0.456 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN058867.D

Acq: 18 Oct 2019 18:39

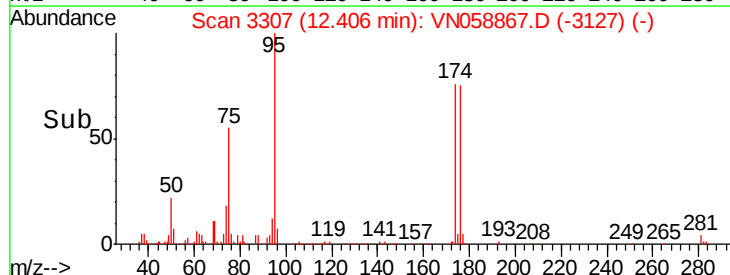
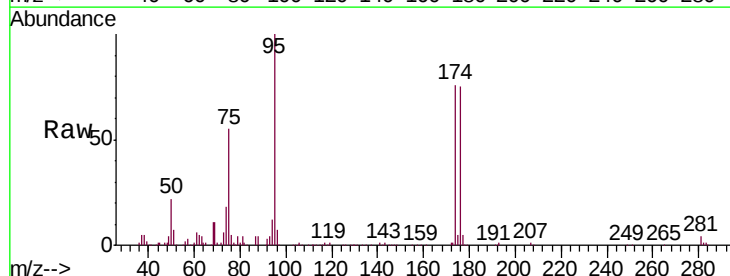
Tgt Ion:173 Resp: 1538

Ion Ratio Lower Upper

173 100

175 722.0 24.7 74.1#

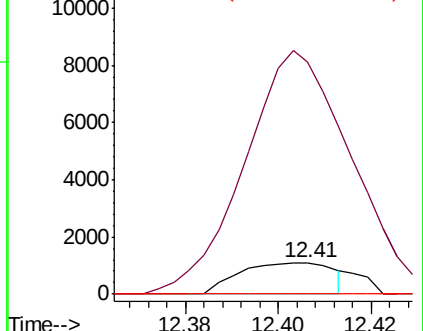
254 0.0 0.0 0.0

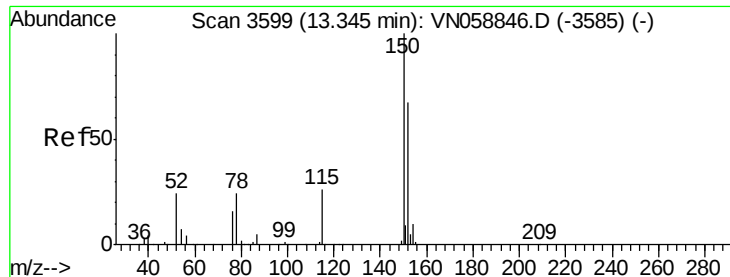


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN058867.D

Acq: 18 Oct 2019 18:39

Instrument :

MSVOA\_N

ClientSampleId :

FA19-MMW0423

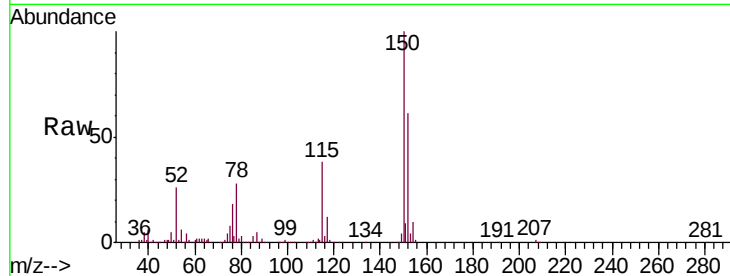
Tgt Ion:152 Resp: 208112

Ion Ratio Lower Upper

152 100

115 61.3 30.5 91.5

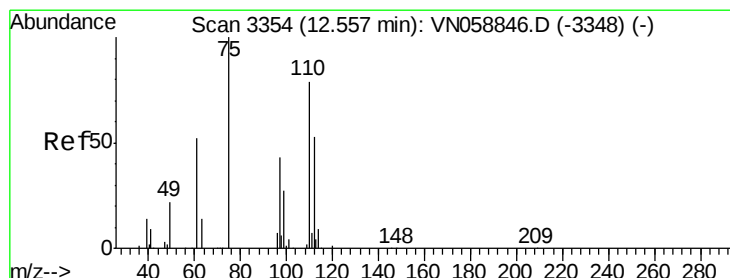
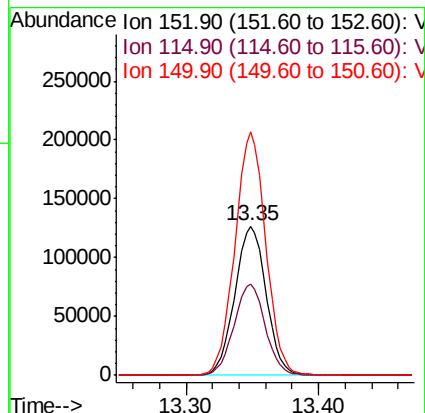
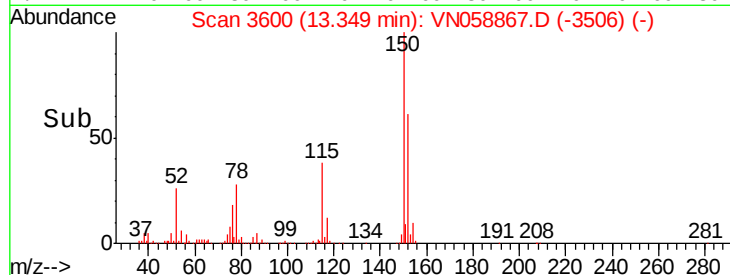
150 160.7 0.0 344.4



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: 29.024 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058867.D

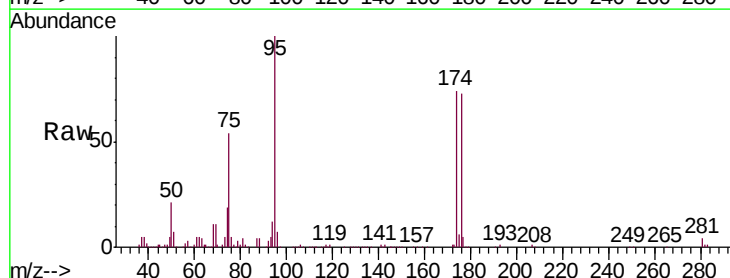
Acq: 18 Oct 2019 18:39

Tgt Ion: 75 Resp: 139988

Ion Ratio Lower Upper

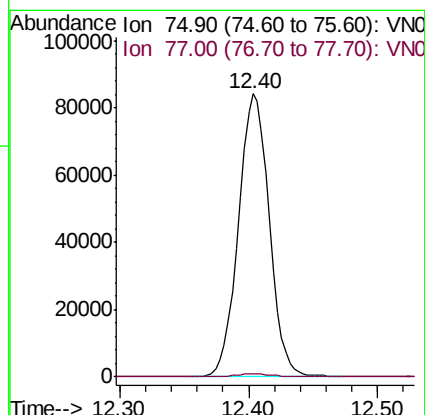
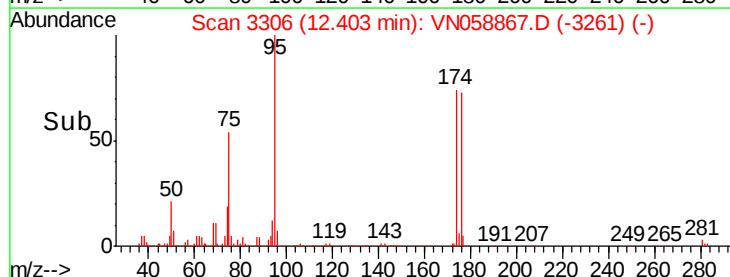
75 100

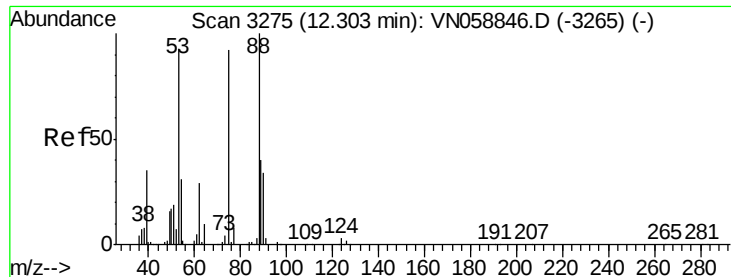
77 1.3 0.0 0.0#



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: 75.609 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058867.D

Acq: 18 Oct 2019 18:39

Instrument :

MSVOA\_N

ClientSampleId :

FA19-MMW0423

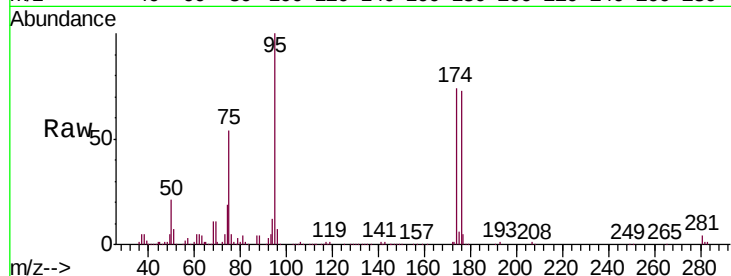
Tgt Ion: 75 Resp: 139988

Ion Ratio Lower Upper

75 100

53 0.1 78.6 118.0#

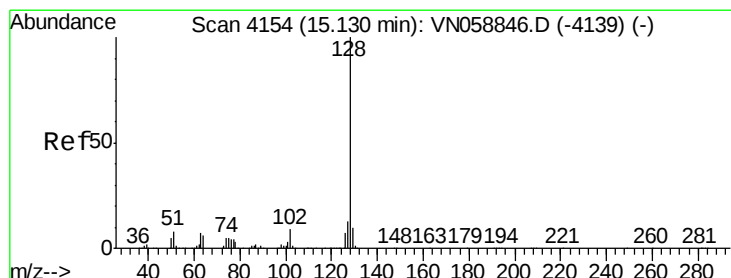
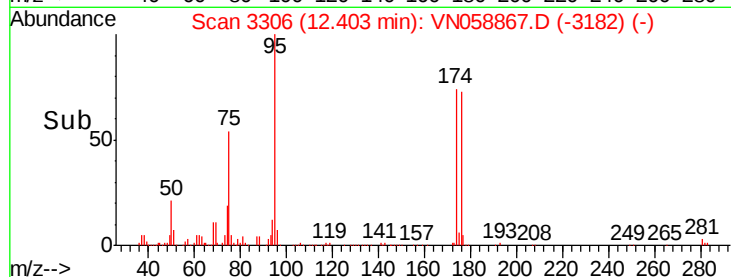
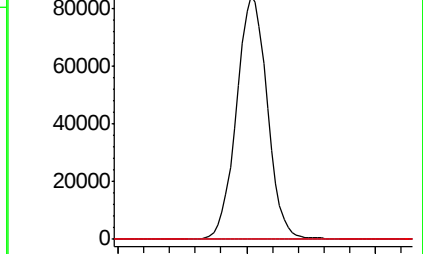
89 0.0 35.4 53.0#



Abundance Ion 74.90 (74.60 to 75.60): VN058867.D (-3182) (-)

Ion 53.00 (52.70 to 53.70): VN058867.D (-3182) (-)

Ion 88.90 (88.60 to 89.60): VN058867.D (-3182) (-)



#95

Naphthalene

Concen: 2.256 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN058867.D

Acq: 18 Oct 2019 18:39

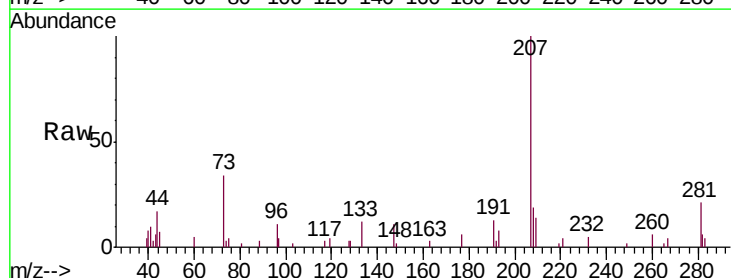
Tgt Ion: 128 Resp: 378

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 8.4 12.6#



Abundance Ion 128.00 (127.70 to 128.70): VN058867.D (-4060) (-)

Ion 127.00 (126.70 to 127.70): VN058867.D (-4060) (-)

Ion 129.00 (128.70 to 129.70): VN058867.D (-4060) (-)

