

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN093020\  
 Data File : VN063746.D  
 Acq On : 30 Sep 2020 13:51  
 Operator : JC/MD  
 Sample : VN0930WBL01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0930WBL01

Quant Time: Oct 01 02:12:56 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N093020W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 01 01:46:38 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 231558   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 415372   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 425033   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 182255   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.99  | 65   | 193181   | 50.50 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.00% |          |
| 35) Dibromofluoromethane    | 7.55  | 113  | 138061   | 47.90 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.80%  |          |
| 50) Toluene-d8              | 10.06 | 98   | 537993   | 49.24 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.48%  |          |
| 62) 4-Bromofluorobenzene    | 12.38 | 95   | 209415   | 50.99 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.98% |          |

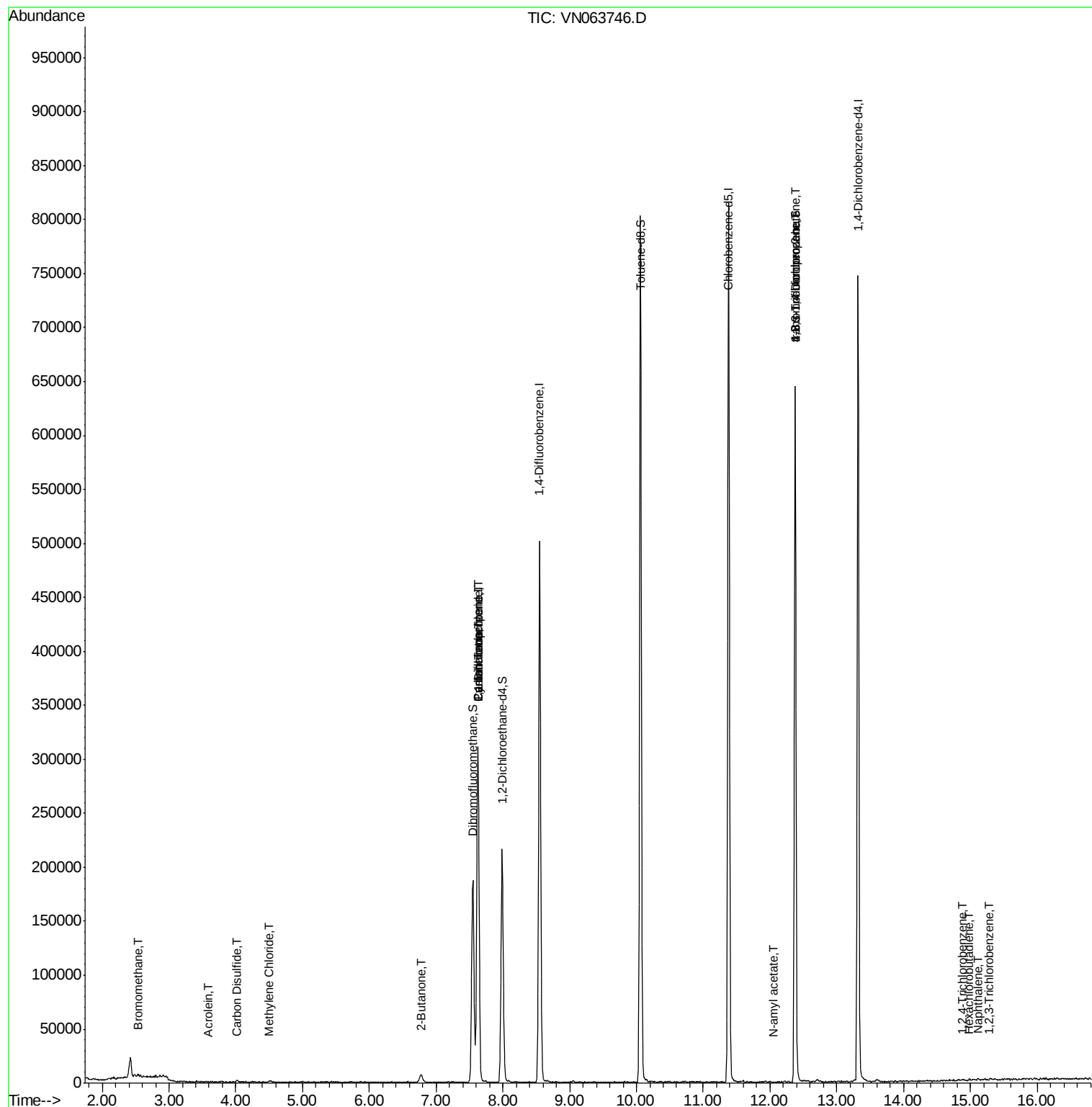
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 5) Bromomethane                | 2.54  | 94   | 397      | 0.219  | ug/l # | 17     |
| 13) Acrolein                   | 3.58  | 56   | 61       | 0.235  | ug/l # | 1      |
| 17) Carbon Disulfide           | 4.02  | 76   | 2412     | 1.078  | ug/l # | 84     |
| 20) Methylene Chloride         | 4.50  | 84   | 468      | 0.271  | ug/l # | 65     |
| 25) 2-Butanone                 | 6.79  | 43   | 362      | 0.217  | ug/l # | 51     |
| 31) Cyclohexane                | 7.63  | 56   | 6863     | 1.545  | ug/l # | 30     |
| 36) 1,1-Dichloropropene        | 7.62  | 75   | 21706    | 5.158  | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 7.63  | 117  | 25115    | 5.322  | ug/l # | 14     |
| 74) N-amyl acetate             | 12.05 | 43   | 271      | 2.258  | ug/l # | 46     |
| 76) 1,2,3-Trichloropropane     | 12.38 | 75   | 121516   | 30.246 | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 121516   | 87.113 | ug/l # | 6      |
| 93) 1,2,4-Trichlorobenzene     | 14.88 | 180  | 277      | 1.821  | ug/l # | 41     |
| 94) Hexachlorobutadiene        | 14.98 | 225  | 305      | 0.259  | ug/l # | 45     |
| 95) Naphthalene                | 15.11 | 128  | 1634     | 2.084  | ug/l # | 71     |
| 96) 1,2,3-Trichlorobenzene     | 15.28 | 180  | 203      | 1.632  | ug/l # | 61     |

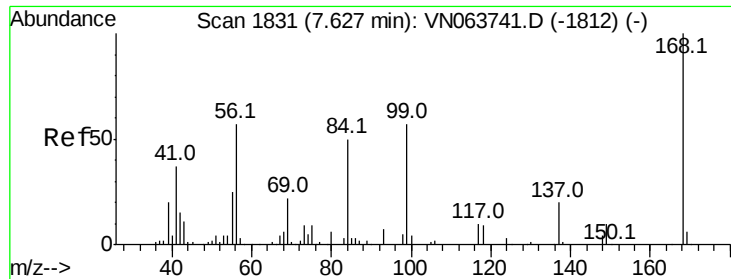
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN093020\  
Data File : VN063746.D  
Acq On : 30 Sep 2020 13:51  
Operator : JC/MD  
Sample : VN0930WBL01  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0930WBL01

Quant Time: Oct 01 02:12:56 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N093020W.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 01 01:46:38 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063746.D

Acq: 30 Sep 2020 13:51

Instrument :

MSVOA\_N

ClientSampled :

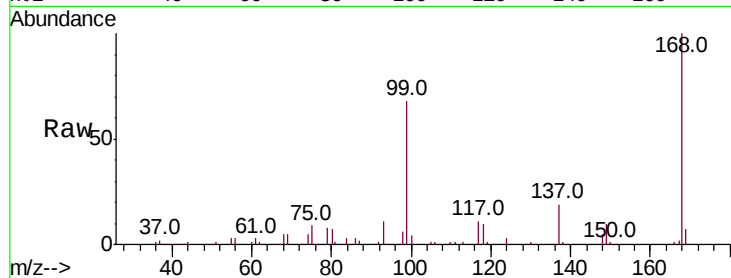
VN0930WBL01

Tot Ion:168 Resp: 231558

Ion Ratio Lower Upper

168 100

99 67.9 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

100000

80000

60000

40000

20000

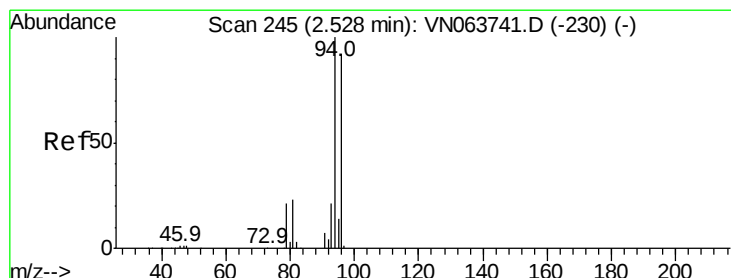
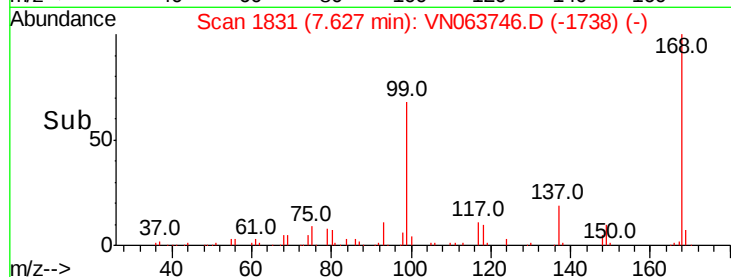
0

Time-->

7.50

7.60

7.70



#5

Bromomethane

Concen: 0.219 ug/l

RT: 2.54 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN063746.D

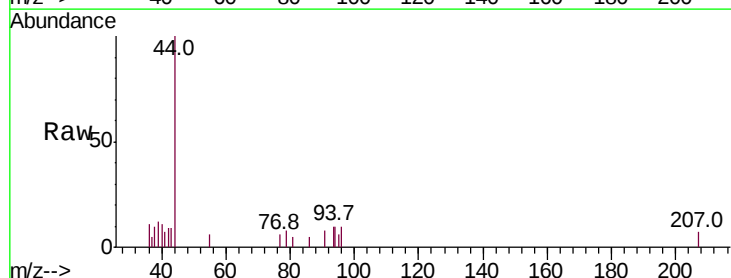
Acq: 30 Sep 2020 13:51

Tgt Ion: 94 Resp: 397

Ion Ratio Lower Upper

94 100

96 12.8 73.3 109.9#



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

2.54

600

400

200

0

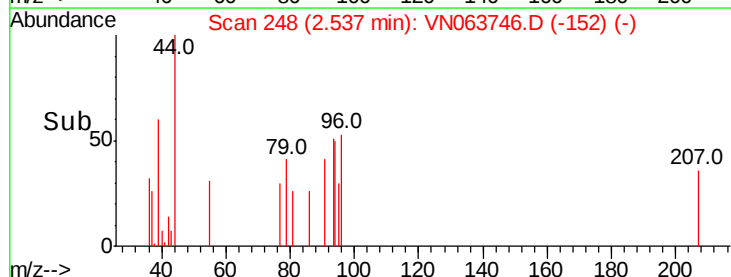
Time-->

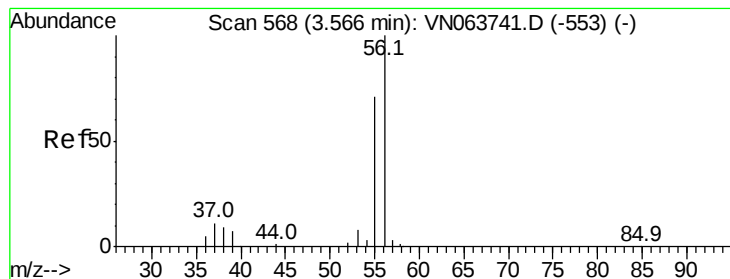
2.52

2.53

2.54

2.55





#13

Acrolein

Concen: 0.235 ug/l

RT: 3.58 min Scan# 572

Delta R.T. 0.01 min

Lab File: VN063746.D

Acq: 30 Sep 2020 13:51

Instrument :

MSVOA\_N

ClientSampleId :

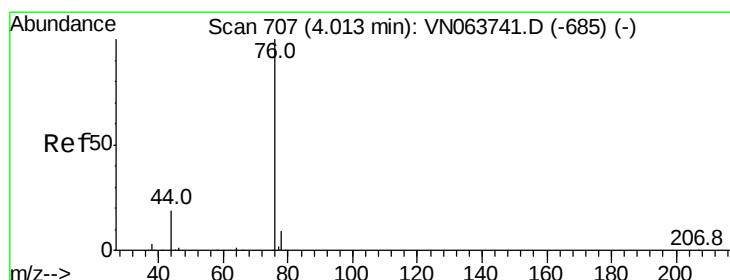
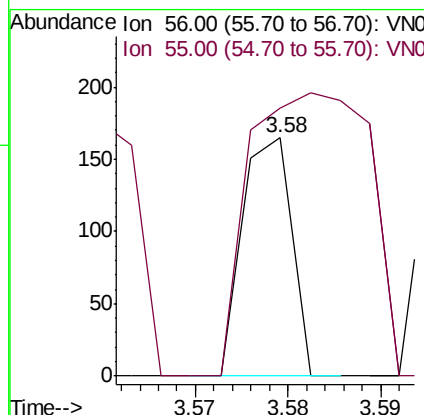
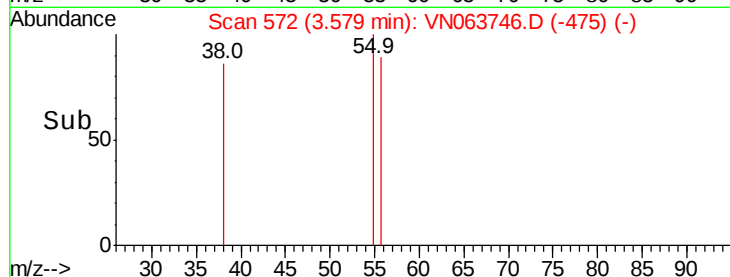
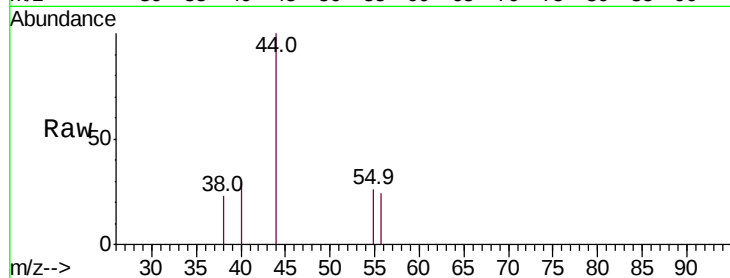
VN0930WBL01

Tot Ion: 56 Resp: 61

Ion Ratio Lower Upper

56 100

55 290.2 56.9 85.3#



#17

Carbon Disulfide

Concen: 1.078 ug/l

RT: 4.02 min Scan# 708

Delta R.T. 0.00 min

Lab File: VN063746.D

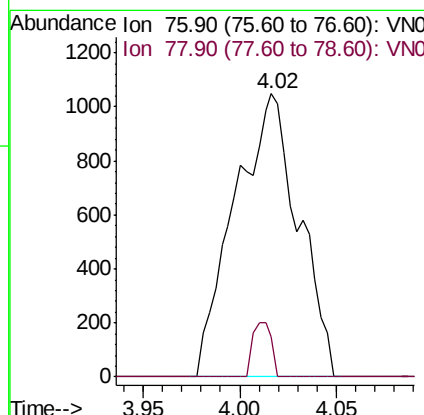
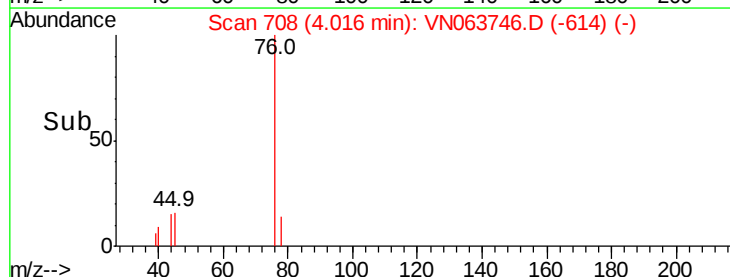
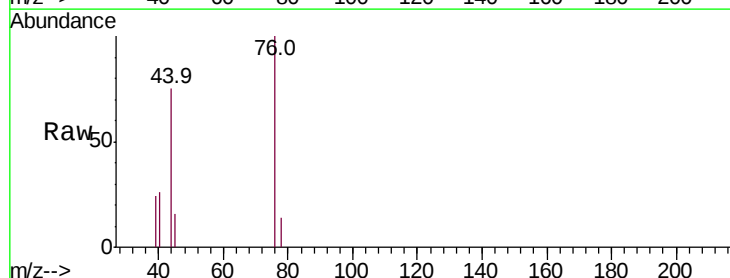
Acq: 30 Sep 2020 13:51

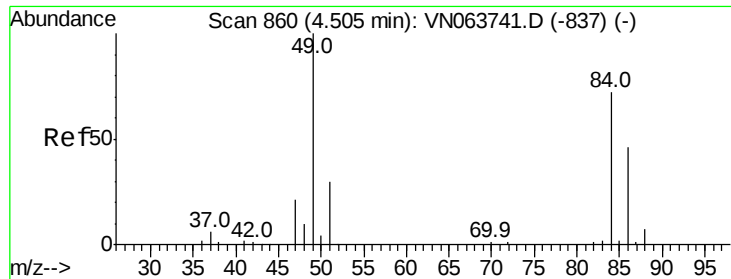
Tgt Ion: 76 Resp: 2412

Ion Ratio Lower Upper

76 100

78 14.4 7.0 10.4#

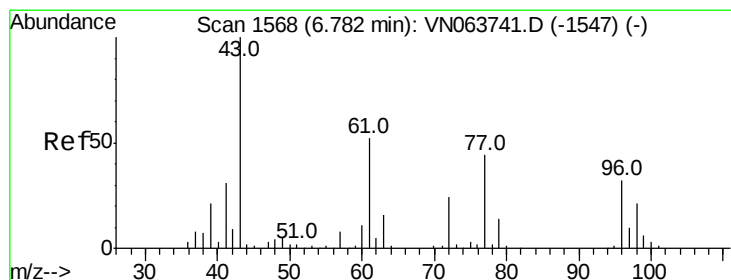
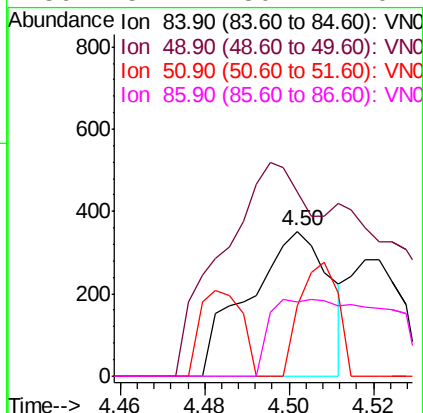
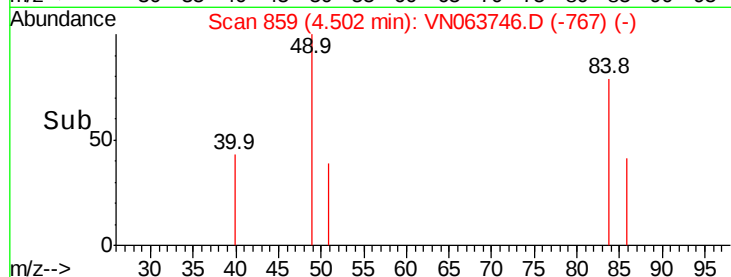
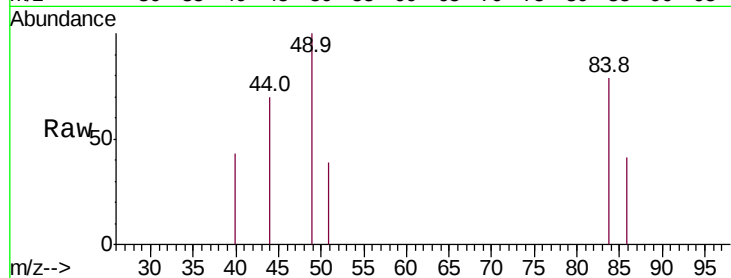




#20  
Methvlene Chloride  
Concen: 0.271 ug/l  
RT: 4.50 min Scan# 859  
Delta R.T. -0.00 min  
Lab File: VN063746.D  
Acq: 30 Sep 2020 13:51

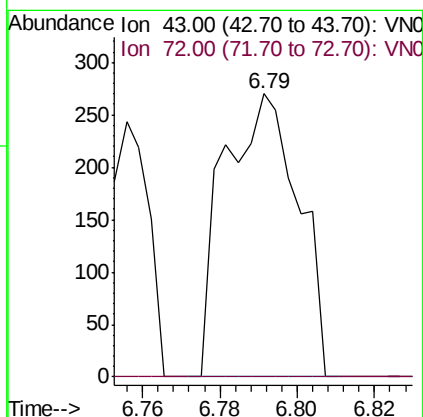
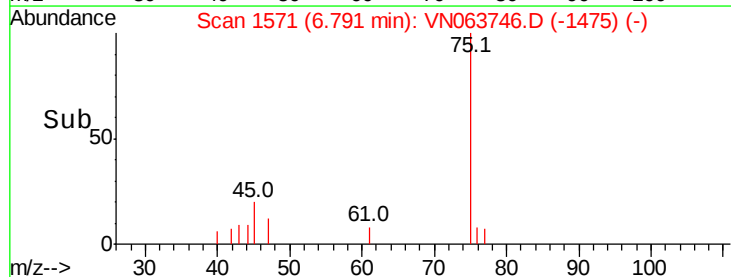
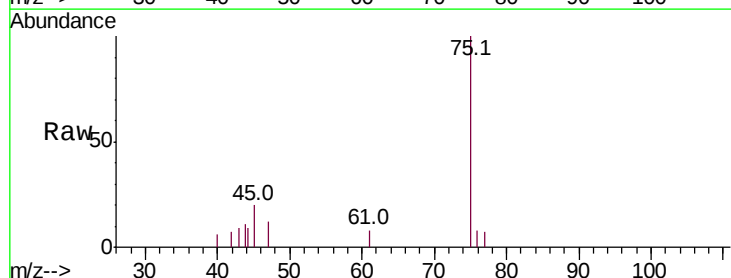
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0930WBL01

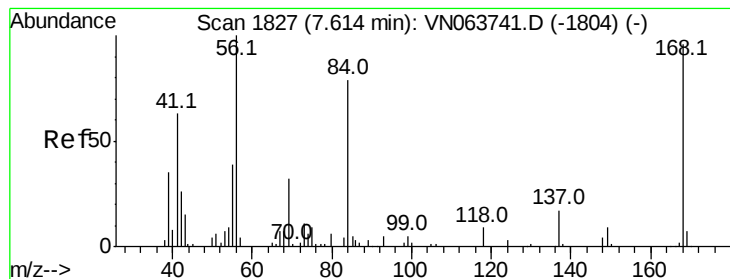
Tot Ion: 84 Resp: 468  
Ion Ratio Lower Upper  
84 100  
49 75.6 110.4 165.6#  
51 48.9 33.3 49.9  
86 51.4 50.7 76.1



#25  
2-Butanone  
Concen: 0.217 ug/l  
RT: 6.79 min Scan# 1571  
Delta R.T. 0.01 min  
Lab File: VN063746.D  
Acq: 30 Sep 2020 13:51

Tgt Ion: 43 Resp: 362  
Ion Ratio Lower Upper  
43 100  
72 0.0 19.3 28.9#





#31

Cyclohexane

Concen: 1.545 ug/l

RT: 7.63 min Scan# 1833

Delta R.T. 0.02 min

Lab File: VN063746.D

Acq: 30 Sep 2020 13:51

Instrument :

MSVOA\_N

ClientSampleId :

VN0930WBL01

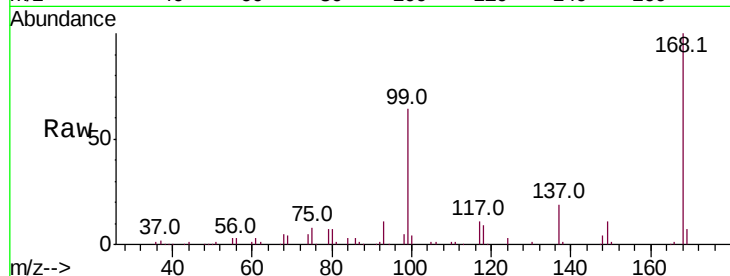
Tot Ion: 56 Resp: 6863

Ion Ratio Lower Upper

56 100

69 136.9 25.4 38.2#

84 98.6 63.3 94.9#

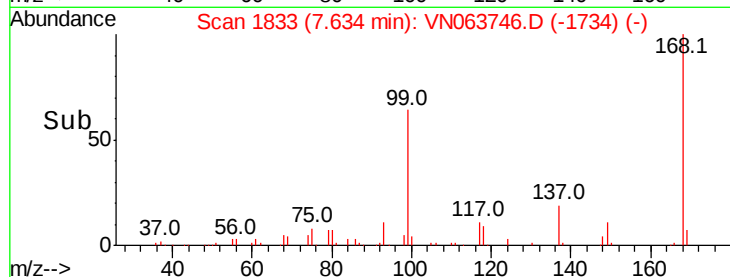


Abundance Ion 56.00 (55.70 to 56.70): VN063746.D (-1734) (-)

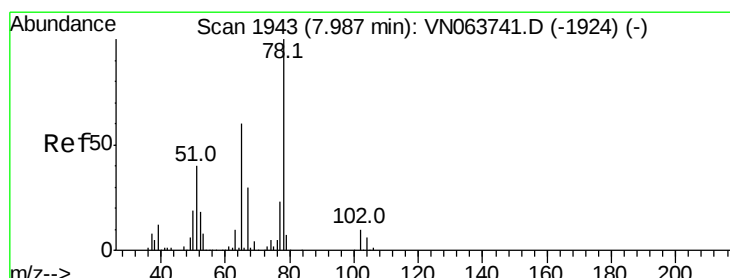
Ion 69.00 (68.70 to 69.70): VN063746.D (-1734) (-)

Ion 84.00 (83.70 to 84.70): VN063746.D (-1734) (-)

Time-->



Time-->



#33

1,2-Dichloroethane-d4

Concen: 50.498 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN063746.D

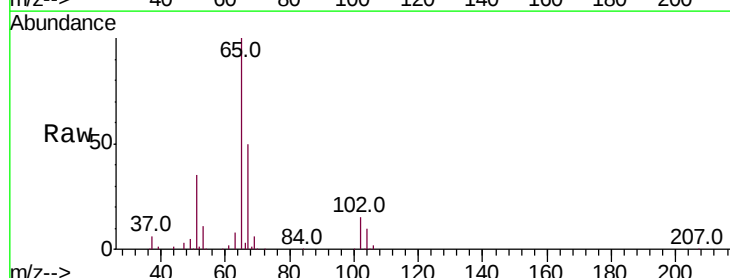
Acq: 30 Sep 2020 13:51

Tgt Ion: 65 Resp: 193181

Ion Ratio Lower Upper

65 100

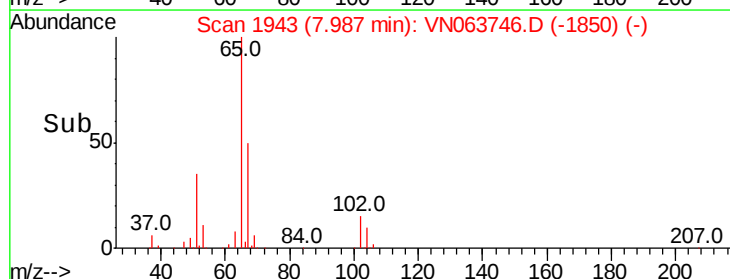
67 50.1 0.0 99.6



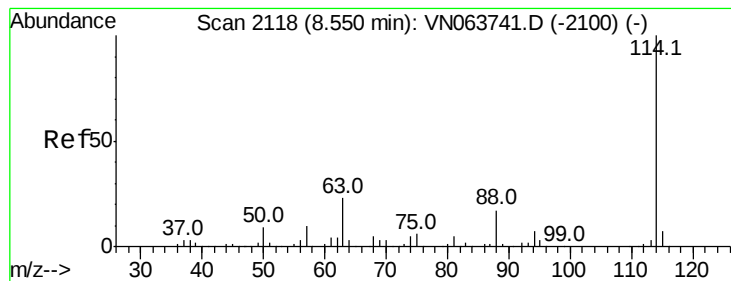
Abundance Ion 64.90 (64.60 to 65.60): VN063746.D (-1850) (-)

Ion 66.90 (66.60 to 67.60): VN063746.D (-1850) (-)

Time-->



Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN063746.D

Acq: 30 Sep 2020 13:51

Instrument :

MSVOA\_N

ClientSampled :

VN0930WBL01

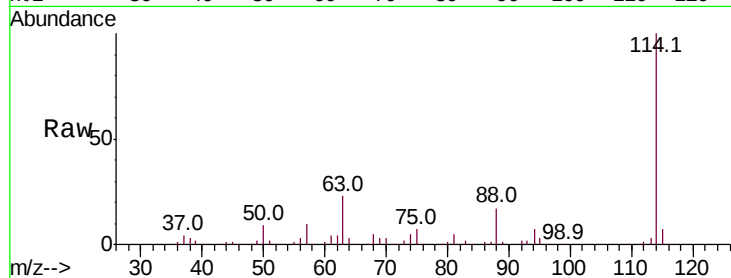
Tot Ion:114 Resp: 415372

Ion Ratio Lower Upper

114 100

63 23.3 0.0 45.0

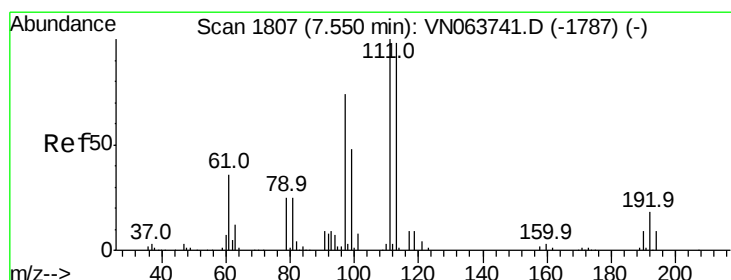
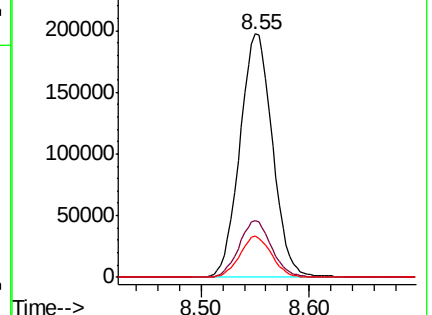
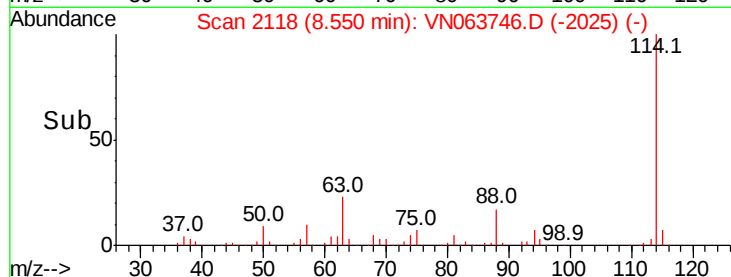
88 16.8 0.0 34.0



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: 47.902 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063746.D

Acq: 30 Sep 2020 13:51

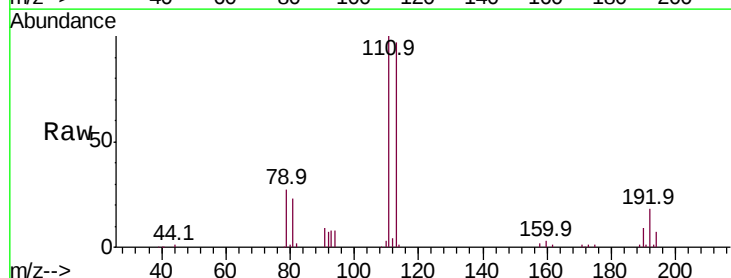
Tgt Ion:113 Resp: 138061

Ion Ratio Lower Upper

113 100

111 103.3 81.8 122.8

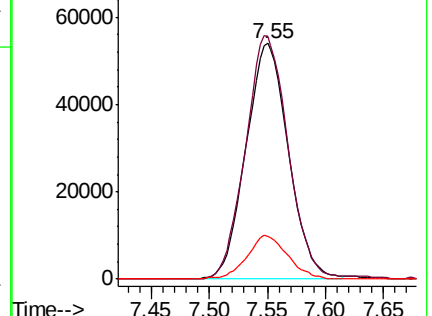
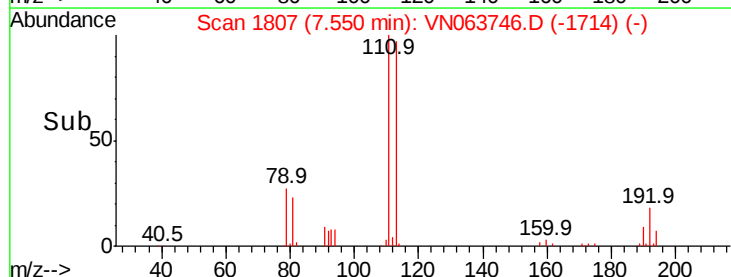
192 17.6 14.2 21.2

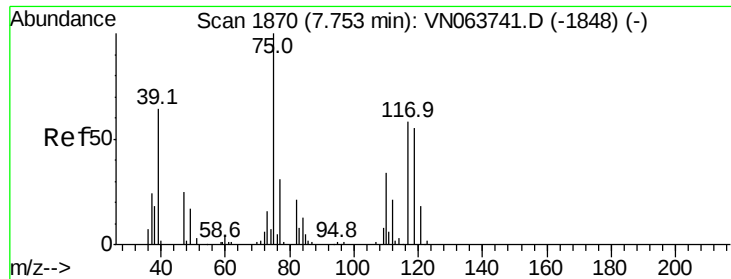


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

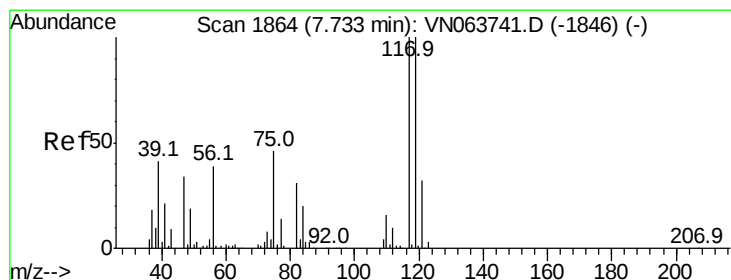
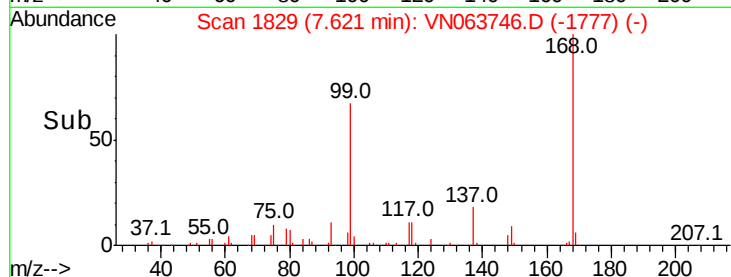
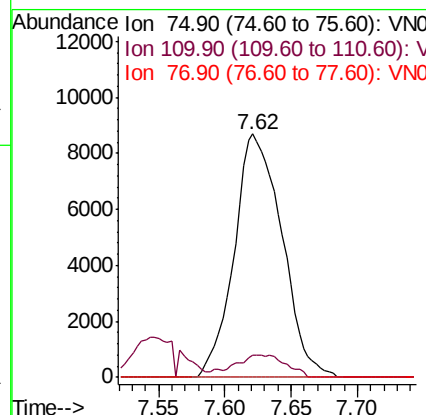
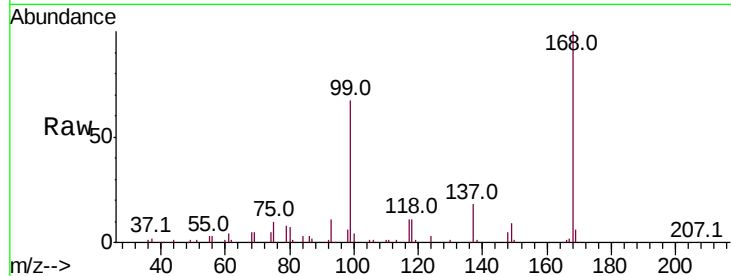




#36  
 1,1-Dichloropropene  
 Concen: 5.158 ug/l  
 RT: 7.62 min Scan# 1829  
 Delta R.T. -0.13 min  
 Lab File: VN063746.D  
 Acq: 30 Sep 2020 13:51

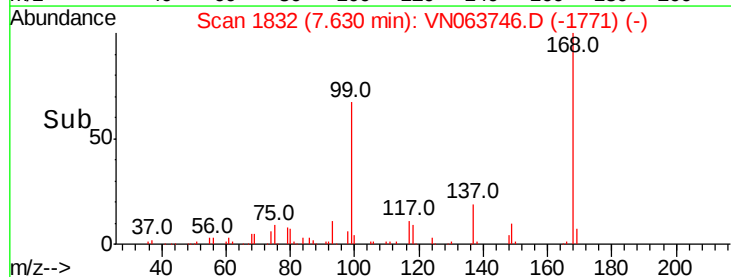
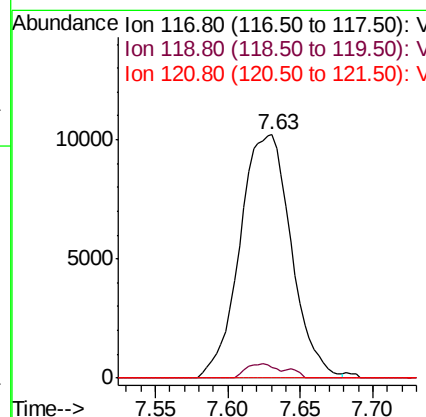
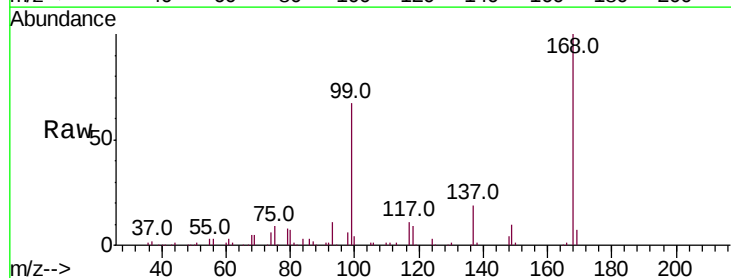
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0930WBL01

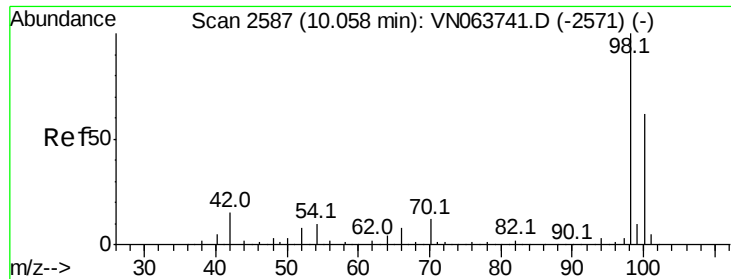
Tot Ion: 75 Resp: 21706  
 Ion Ratio Lower Upper  
 75 100  
 110 9.9 16.9 50.6#  
 77 0.0 24.5 36.7#



#38  
 Carbon Tetrachloride  
 Concen: 5.322 ug/l  
 RT: 7.63 min Scan# 1832  
 Delta R.T. -0.10 min  
 Lab File: VN063746.D  
 Acq: 30 Sep 2020 13:51

Tgt Ion: 117 Resp: 25115  
 Ion Ratio Lower Upper  
 117 100  
 119 4.3 80.1 120.1#  
 121 0.0 25.7 38.5#





#50

Toluene-d8

Concen: 49.240 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063746.D

Acq: 30 Sep 2020 13:51

Instrument :

MSVOA\_N

ClientSampleId :

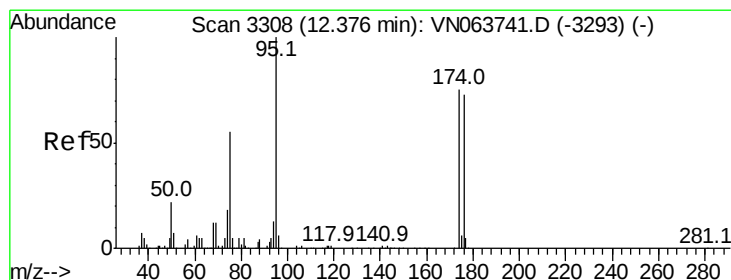
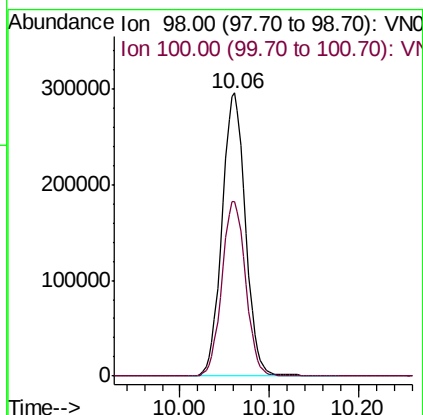
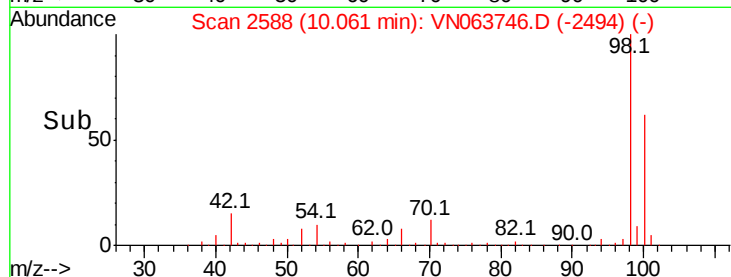
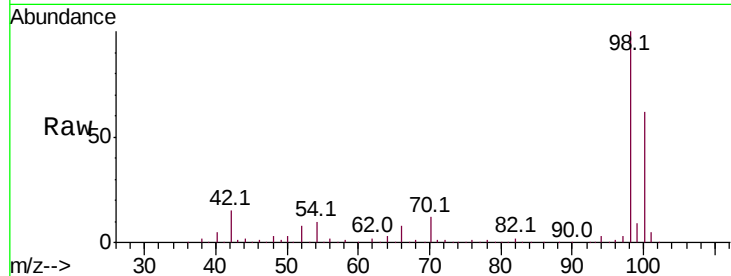
VN0930WBL01

Tot Ion: 98 Resp: 537993

Ion Ratio Lower Upper

98 100

100 62.3 49.8 74.6



#62

4-Bromofluorobenzene

Concen: 50.987 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN063746.D

Acq: 30 Sep 2020 13:51

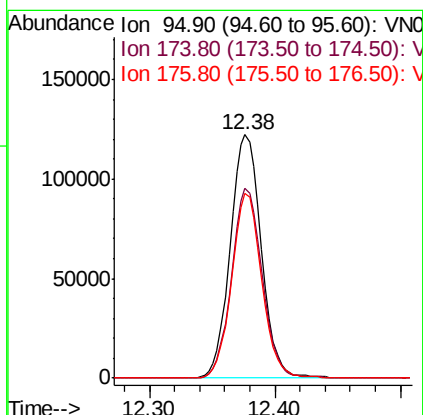
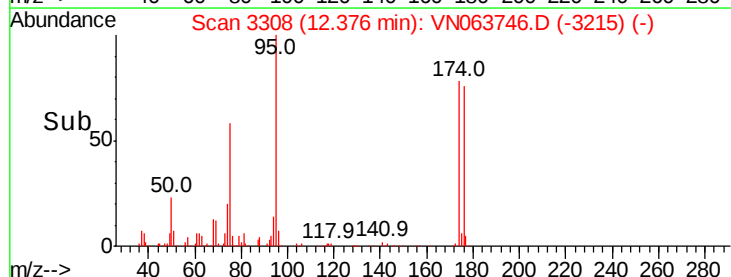
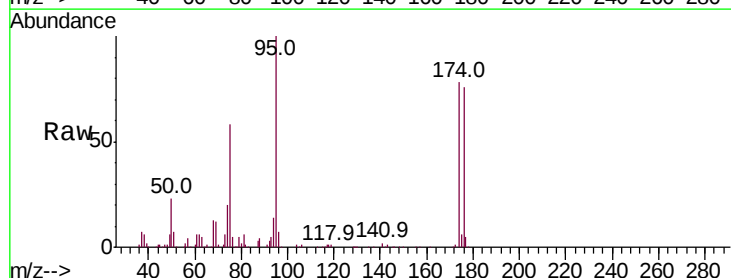
Tgt Ion: 95 Resp: 209415

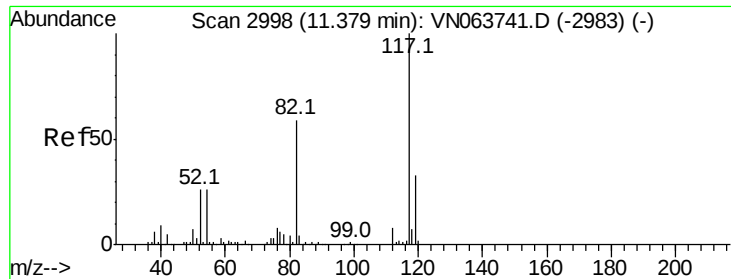
Ion Ratio Lower Upper

95 100

174 77.1 0.0 150.6

176 73.9 0.0 145.4

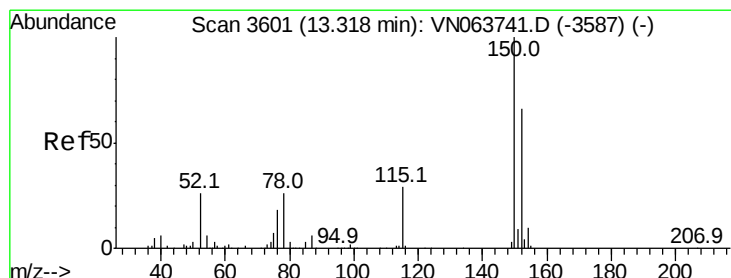
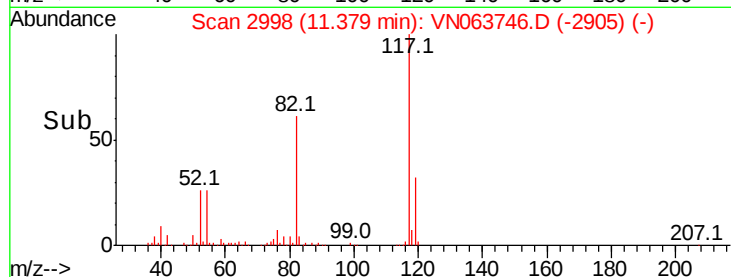
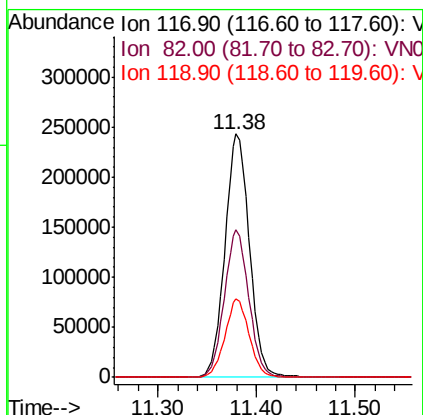
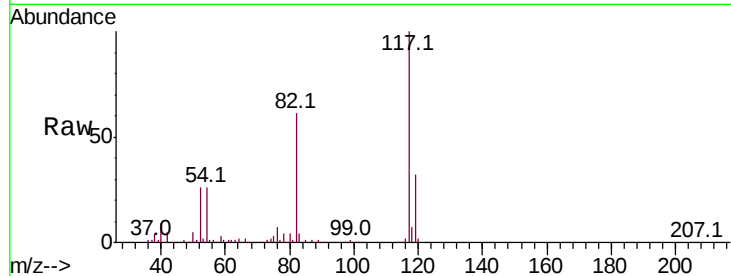




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.38 min Scan# 2998  
Delta R.T. 0.00 min  
Lab File: VN063746.D  
Acq: 30 Sep 2020 13:51

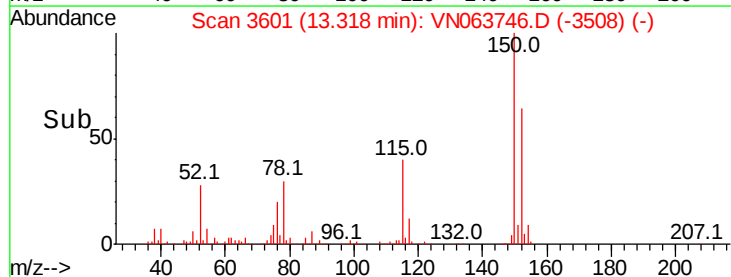
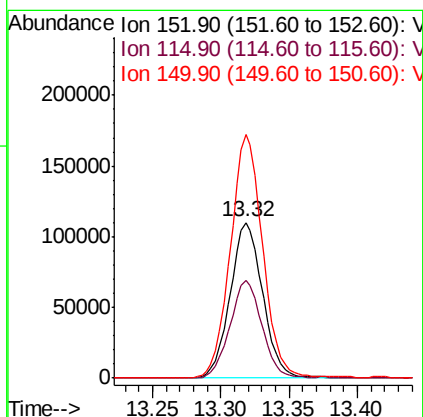
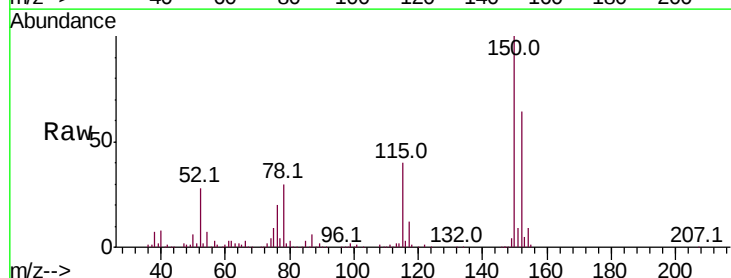
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0930WBL01

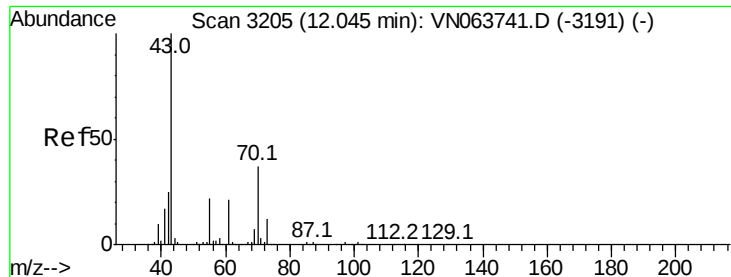
Tot Ion:117 Resp: 425033  
Ion Ratio Lower Upper  
117 100  
82 60.8 47.4 71.2  
119 32.5 26.4 39.6



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.32 min Scan# 3601  
Delta R.T. 0.00 min  
Lab File: VN063746.D  
Acq: 30 Sep 2020 13:51

Tgt Ion:152 Resp: 182255  
Ion Ratio Lower Upper  
152 100  
115 61.5 31.3 93.8  
150 155.4 0.0 341.8





#74

N-amvl acetate

Concen: 2.258 ug/l

RT: 12.05 min Scan# 3206

Delta R.T. 0.00 min

Lab File: VN063746.D

Acq: 30 Sep 2020 13:51

Instrument :

MSVOA\_N

ClientSampleId :

VN0930WBL01

Tot Ion: 43 Resp: 271

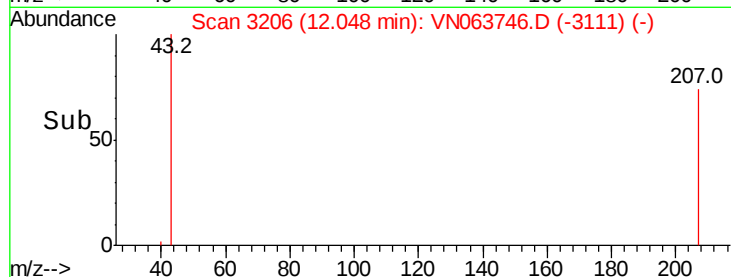
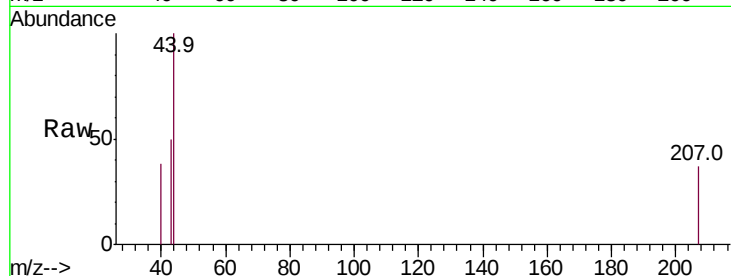
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 0.0 17.9 26.9#

61 0.0 17.0 25.4#

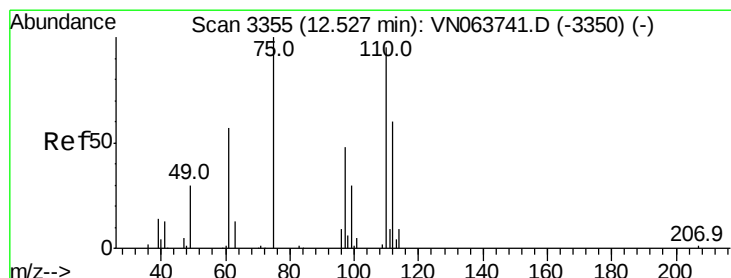
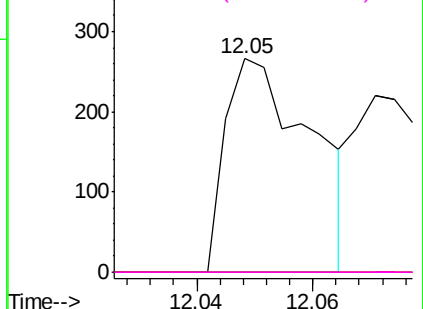


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 30.246 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063746.D

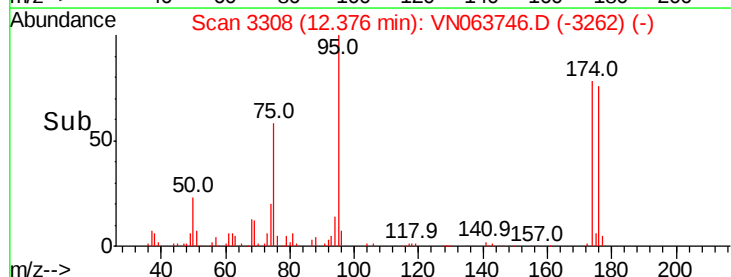
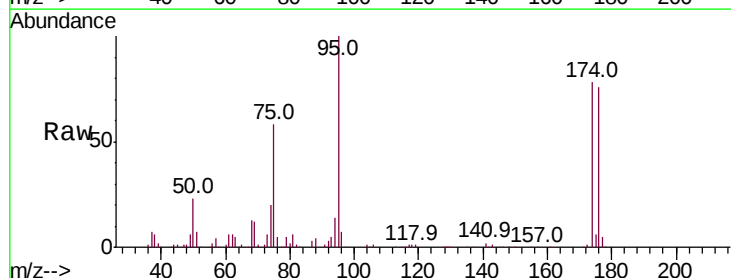
Acq: 30 Sep 2020 13:51

Tgt Ion: 75 Resp: 121516

Ion Ratio Lower Upper

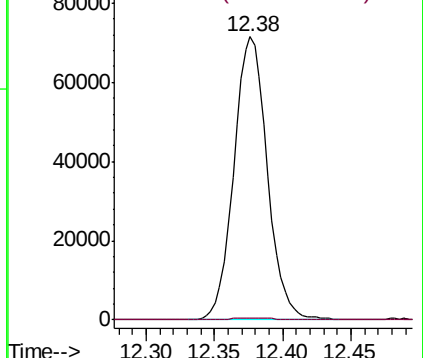
75 100

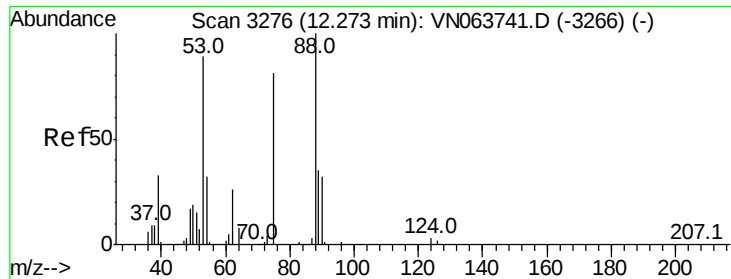
77 0.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

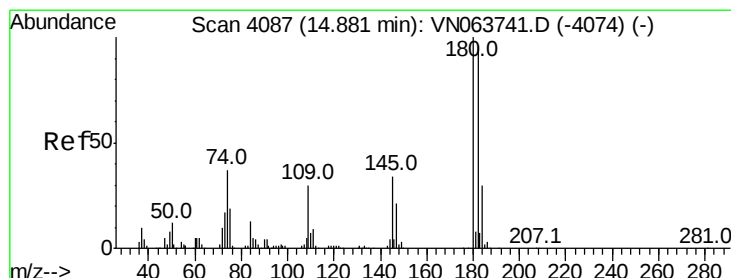
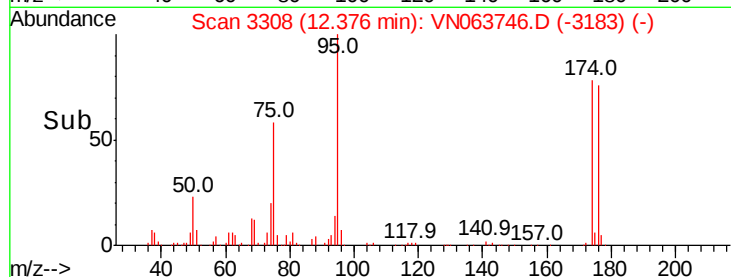
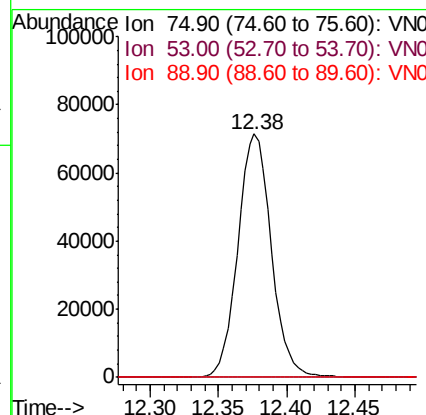
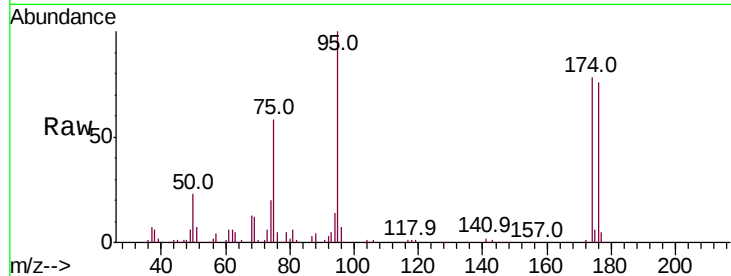




#81  
trans-1,4-Dichloro-2-butene  
Concen: 87.113 ug/l  
RT: 12.38 min Scan# 3308  
Delta R.T. 0.10 min  
Lab File: VN063746.D  
Acq: 30 Sep 2020 13:51

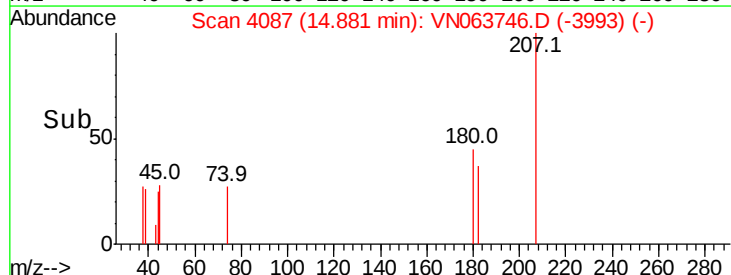
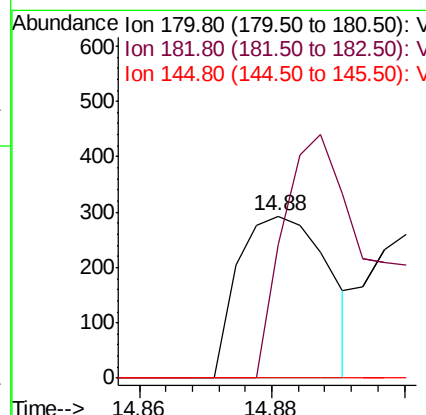
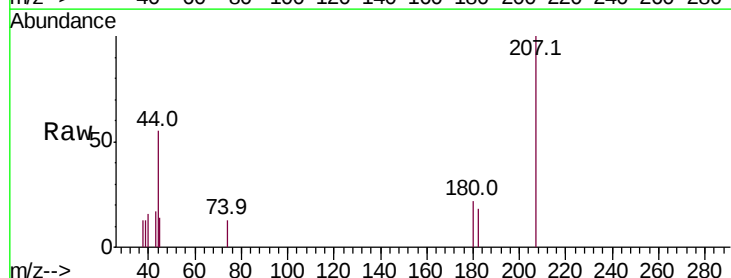
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0930WBL01

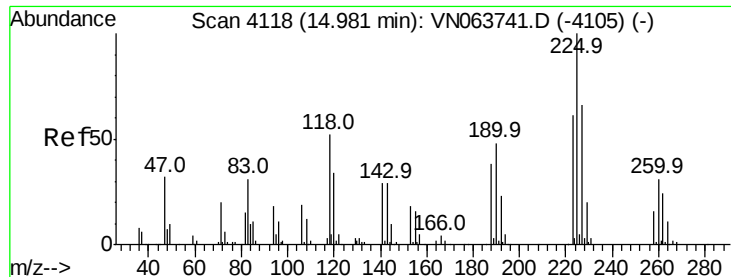
Tot Ion: 75 Resp: 121516  
Ion Ratio Lower Upper  
75 100  
53 0.0 88.2 132.2#  
89 0.0 36.0 54.0#



#93  
1,2,4-Trichlorobenzene  
Concen: 1.821 ug/l  
RT: 14.88 min Scan# 4087  
Delta R.T. 0.00 min  
Lab File: VN063746.D  
Acq: 30 Sep 2020 13:51

Tgt Ion: 180 Resp: 277  
Ion Ratio Lower Upper  
180 100  
182 154.2 48.2 144.6#  
145 0.0 17.1 51.2#





#94

Hexachlorobutadiene

Concen: 0.259 ug/l

RT: 14.98 min Scan# 4117

Delta R.T. -0.00 min

Lab File: VN063746.D

Acq: 30 Sep 2020 13:51

Instrument :

MSVOA\_N

ClientSampleId :

VN0930WBL01

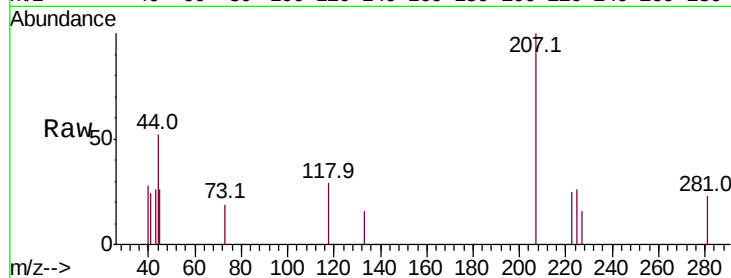
Tot Ion:225 Resp: 305

Ion Ratio Lower Upper

225 100

223 39.3 30.3 91.0

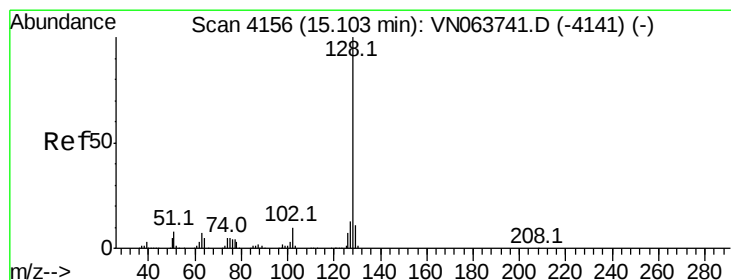
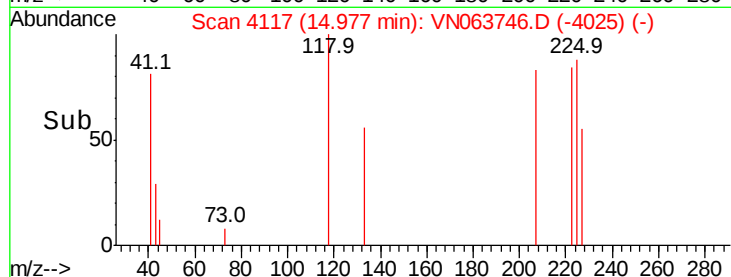
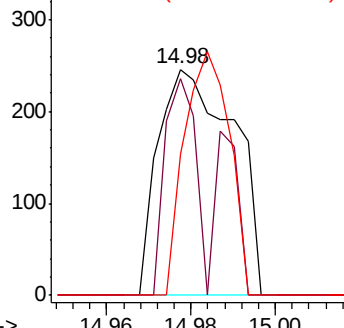
227 0.0 31.9 95.5#



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 2.084 ug/l

RT: 15.11 min Scan# 4159

Delta R.T. 0.01 min

Lab File: VN063746.D

Acq: 30 Sep 2020 13:51

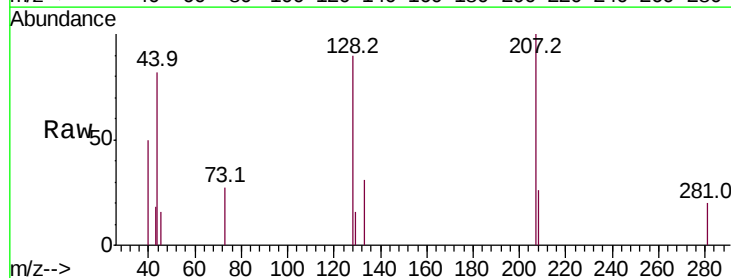
Tgt Ion:128 Resp: 1634

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

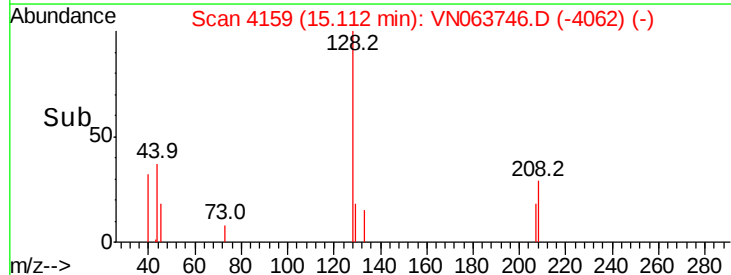
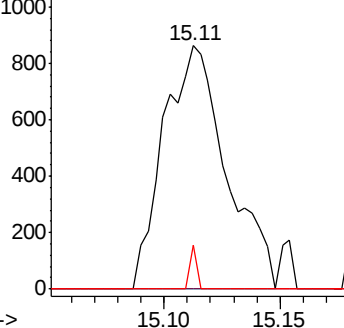
129 1.8 8.7 13.1#

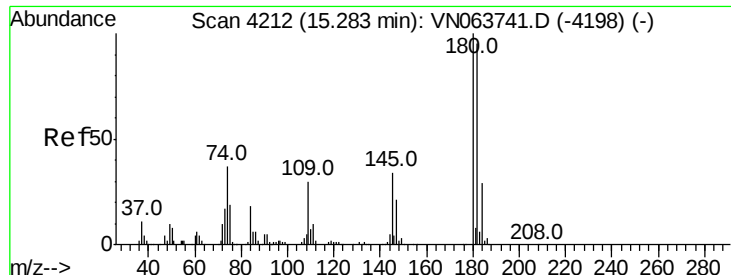


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96  
 1,2,3-Trichlorobenzene  
 Concen: 1.632 ug/l  
 RT: 15.28 min Scan# 4212  
 Delta R.T. 0.00 min  
 Lab File: VN063746.D  
 Acq: 30 Sep 2020 13:51

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0930WBL01

Tot Ion:180 Resp: 203  
 Ion Ratio Lower Upper  
 180 100  
 182 126.1 47.9 143.6  
 145 0.0 17.2 51.5#

