

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082520\  
 Data File : VN063105.D  
 Acq On : 25 Aug 2020 11:16  
 Operator : JC/MD  
 Sample : VN0825MBL01  
 Misc : 5.00µL/100µL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0825MBL01

Quant Time: Aug 26 05:36:37 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N081820W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 19 06:09:27 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 138589   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 227665   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 242835   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 98578    | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 7.99   | 65  | 85146    | 51.84 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.68% |      |
| 35) Dibromofluoromethane  | 7.55   | 113 | 77792    | 52.44 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.88% |      |
| 50) Toluene-d8            | 10.06  | 98  | 298361   | 52.36 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.72% |      |
| 62) 4-Bromofluorobenzene  | 12.38  | 95  | 105281   | 52.36 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.72% |      |

## Target Compounds

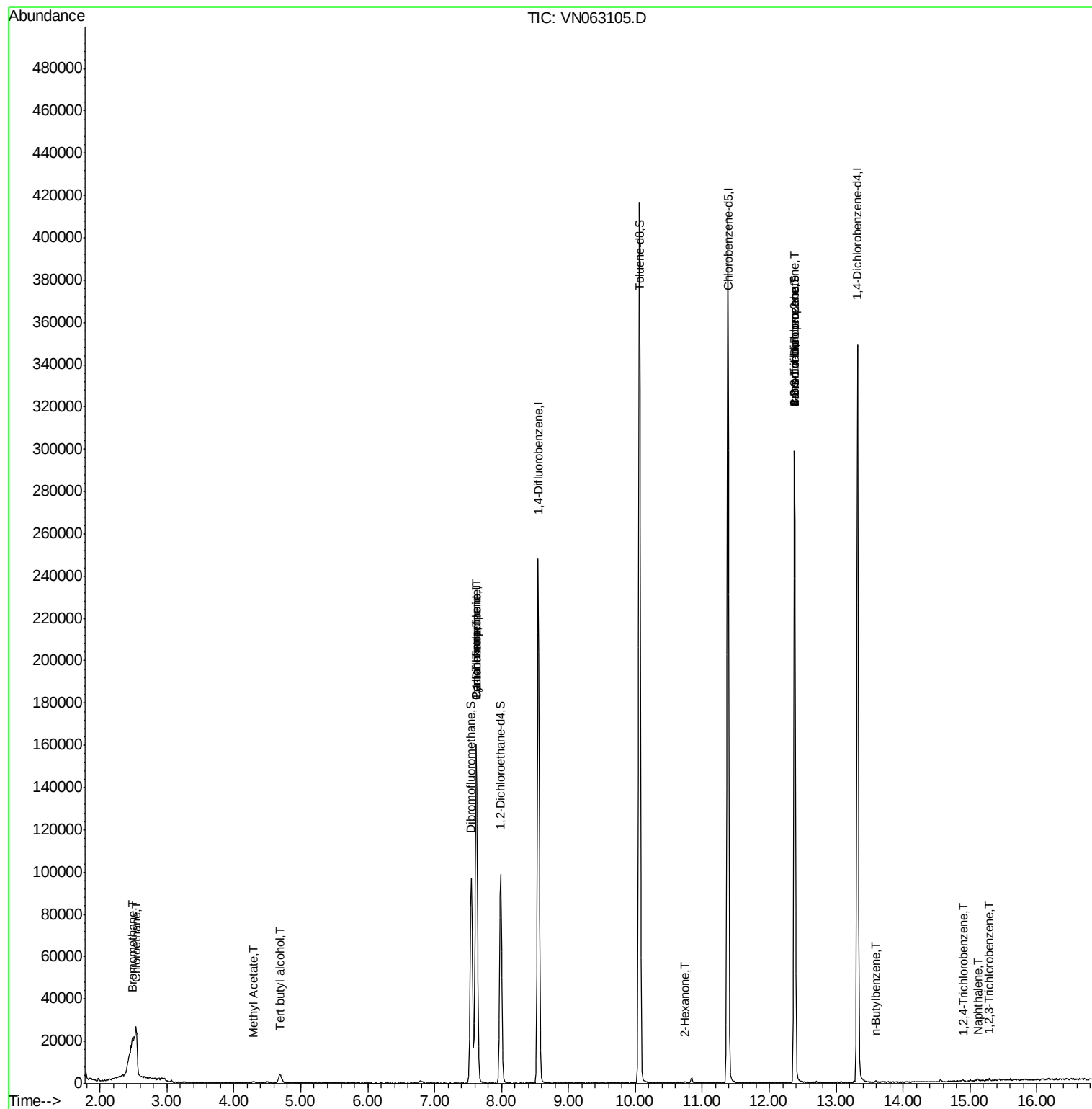
|                                |       |     |       |           |        | Qvalue |
|--------------------------------|-------|-----|-------|-----------|--------|--------|
| 5) Bromomethane                | 2.49  | 94  | 340   | 0.312     | ug/l   | 91     |
| 6) Chloroethane                | 2.54  | 64  | 243   | 0.224     | ug/l # | 43     |
| 11) Tert butyl alcohol         | 4.70  | 59  | 4353  | 18.710    | ug/l # | 74     |
| 18) Methyl Acetate             | 4.28  | 43  | 1457  | 0.893     | ug/l # | 52     |
| 20) Methylene Chloride         | 4.49  | 84  | 358   | Below Cal | #      | 82     |
| 31) Cyclohexane                | 7.62  | 56  | 2523  | 1.042     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.62  | 75  | 10062 | 5.015     | ug/l # | 46     |
| 38) Carbon Tetrachloride       | 7.63  | 117 | 12477 | 6.160     | ug/l # | 17     |
| 59) 2-Hexanone                 | 10.74 | 43  | 680   | 0.495     | ug/l # | 23     |
| 71) Bromoform                  | 12.38 | 173 | 741   | 0.491     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.38 | 75  | 50194 | 26.195    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75  | 50194 | 71.945    | ug/l # | 15     |
| 89) n-Butylbenzene             | 13.60 | 91  | 717   | 2.897     | ug/l # | 60     |
| 93) 1,2,4-Trichlorobenzene     | 14.89 | 180 | 505   | 4.814     | ug/l # | 88     |
| 95) Naphthalene                | 15.11 | 128 | 1490  | 5.978     | ug/l # | 69     |
| 96) 1,2,3-Trichlorobenzene     | 15.29 | 180 | 588   | 4.289     | ug/l # | 86     |

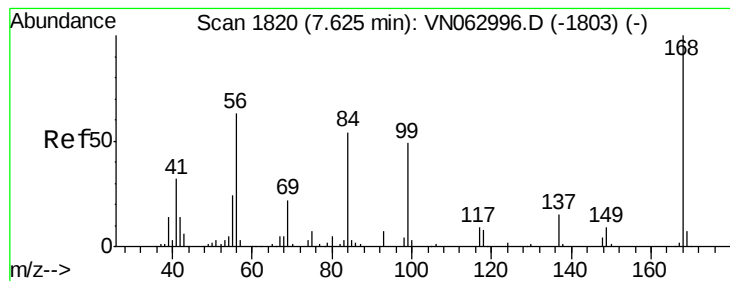
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN082520\  
Data File : VN063105.D  
Acq On : 25 Aug 2020 11:16  
Operator : JC/MD  
Sample : VN0825MBL01  
Misc : 5.0g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0825MBL01

Quant Time: Aug 26 05:36:37 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N081820W.M  
Quant Title : SW846 8260  
QLast Update : Wed Aug 19 06:09:27 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN063105.D

Acq: 25 Aug 2020 11:16

Instrument :

MSVOA\_N

ClientSampleId :

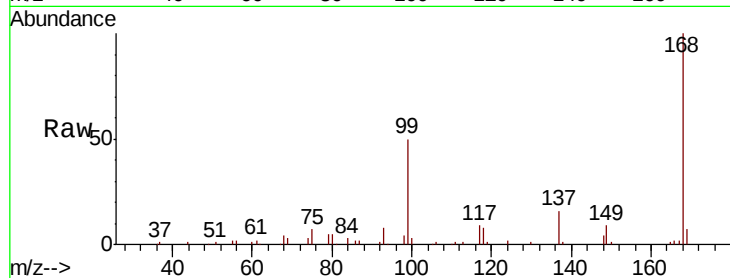
VN0825MBL01

Tot Ion:168 Resp: 138589

Ion Ratio Lower Upper

168 100

99 50.1 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

60000

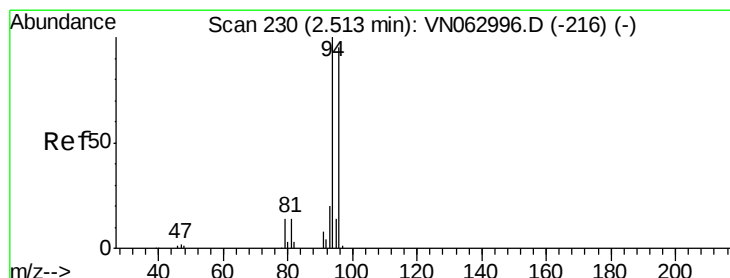
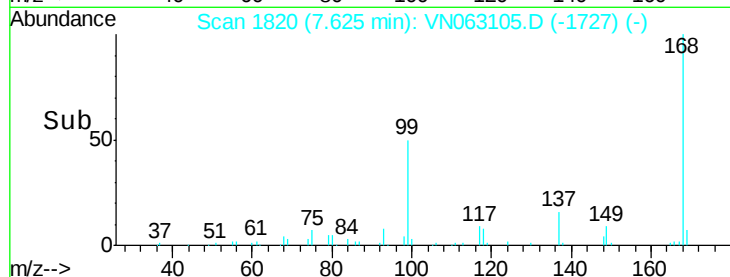
40000

20000

0

7.50 7.60 7.70

Time-->



#5

Bromomethane

Concen: 0.312 ug/l

RT: 2.49 min Scan# 223

Delta R.T. -0.02 min

Lab File: VN063105.D

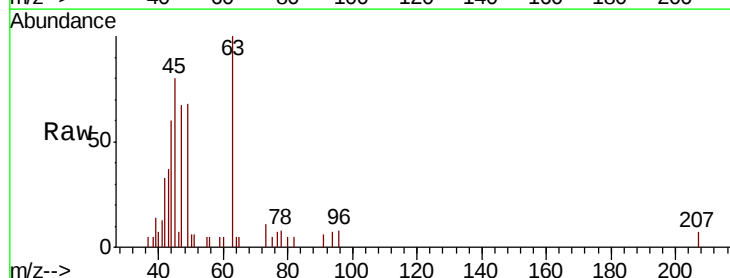
Acq: 25 Aug 2020 11:16

Tgt Ion: 94 Resp: 340

Ion Ratio Lower Upper

94 100

96 104.0 75.8 113.8



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

300

250

200

150

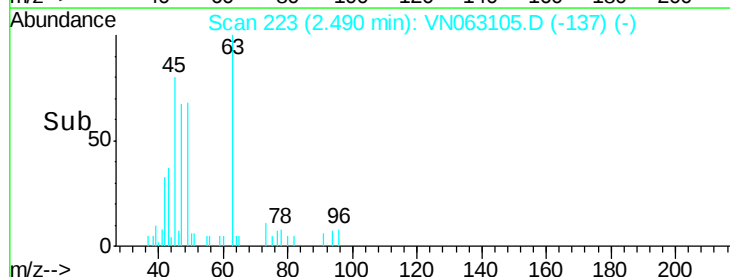
100

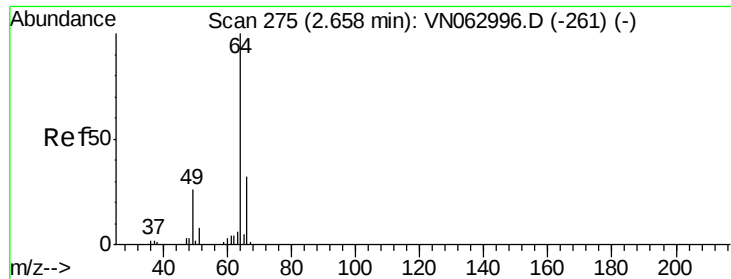
50

0

2.46 2.48 2.50

Time-->





#6

Chloroethane

Concen: 0.224 ug/l

RT: 2.54 min Scan# 237

Delta R.T. -0.12 min

Lab File: VN063105.D

Acq: 25 Aug 2020 11:16

Instrument :

MSVOA\_N

ClientSampleId :

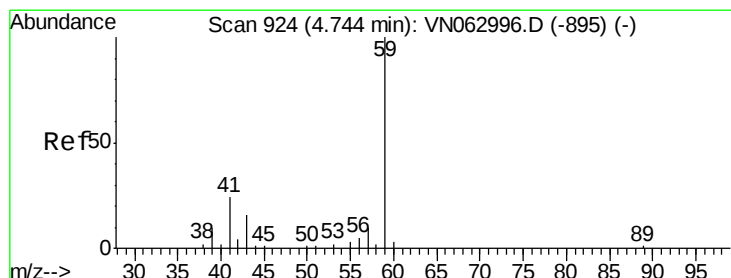
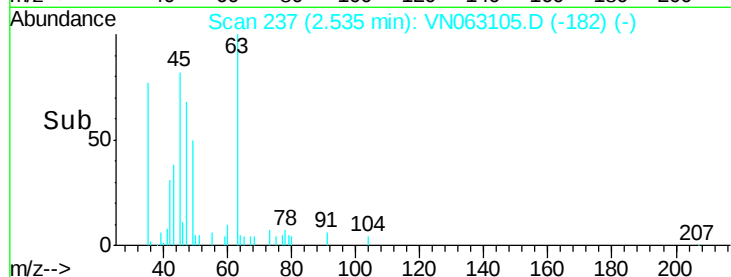
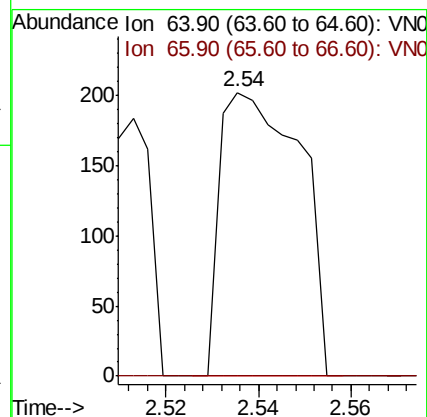
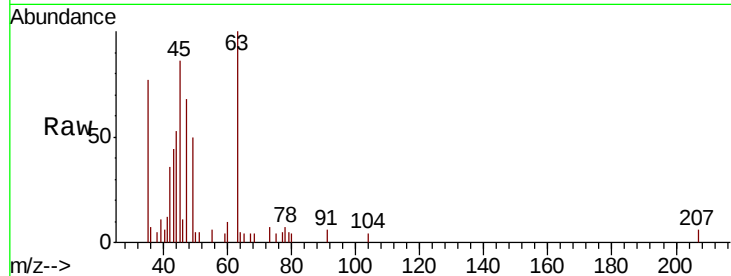
VN0825MBL01

Tot Ion: 64 Resp: 243

Ion Ratio Lower Upper

64 100

66 0.0 25.4 38.0#



#11

Tert butyl alcohol

Concen: 18.710 ug/l

RT: 4.70 min Scan# 909

Delta R.T. -0.05 min

Lab File: VN063105.D

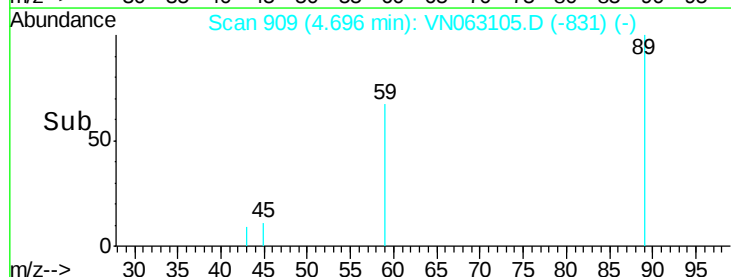
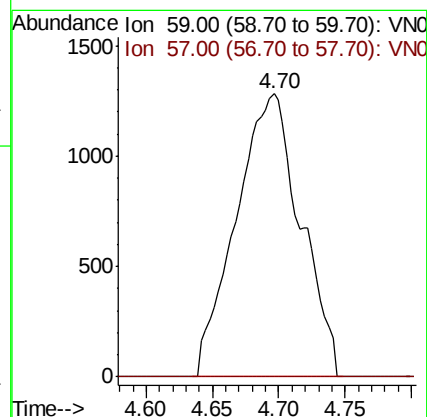
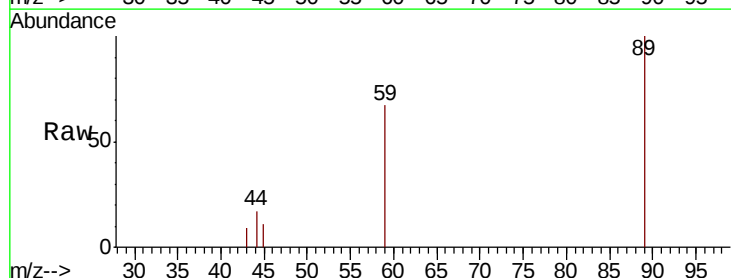
Acq: 25 Aug 2020 11:16

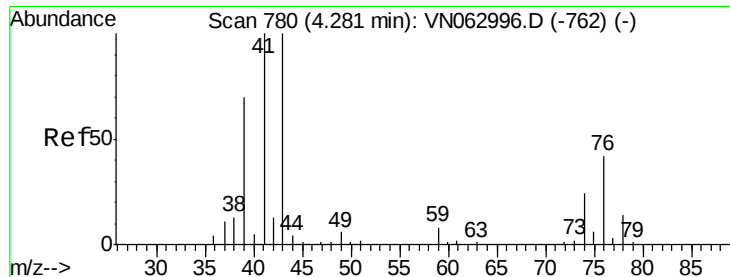
Tgt Ion: 59 Resp: 4353

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#

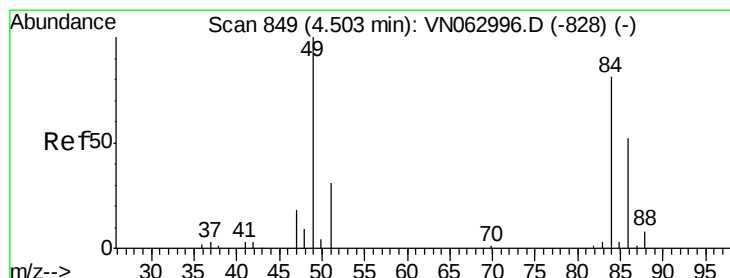
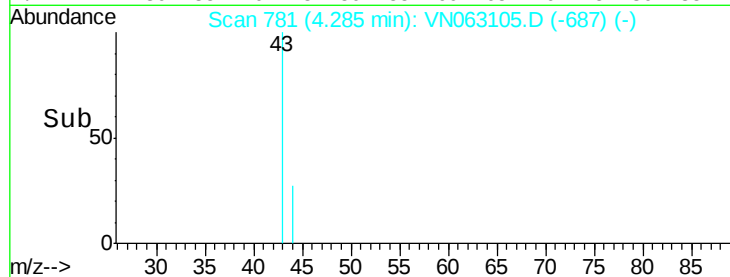
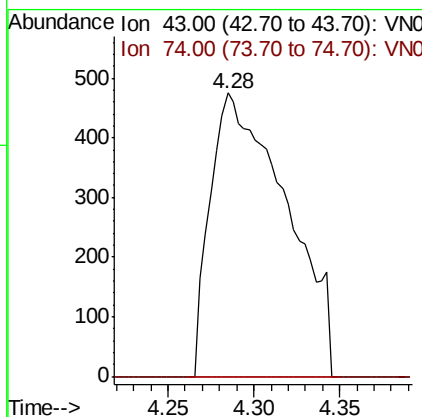
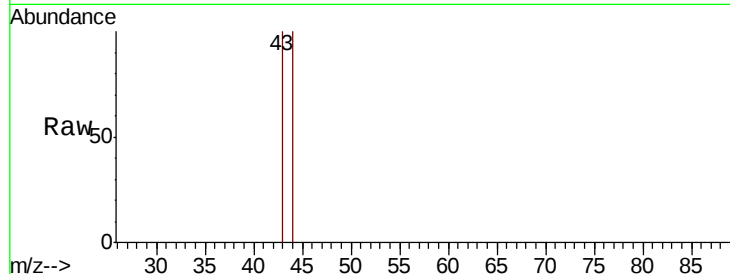




#18  
Methyl Acetate  
Concen: 0.893 ug/l  
RT: 4.28 min Scan# 781  
Delta R.T. 0.00 min  
Lab File: VN063105.D  
Acq: 25 Aug 2020 11:16

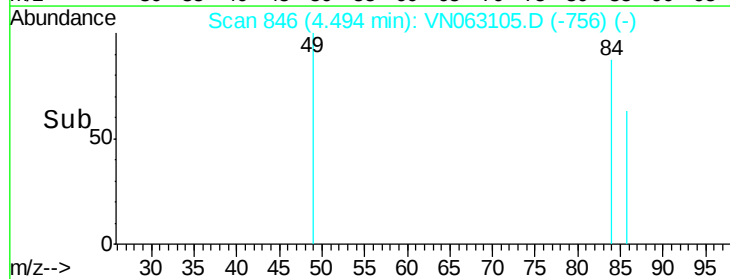
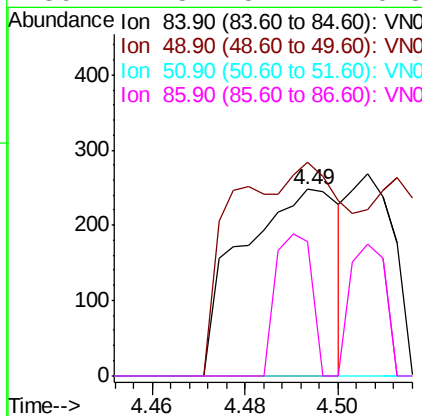
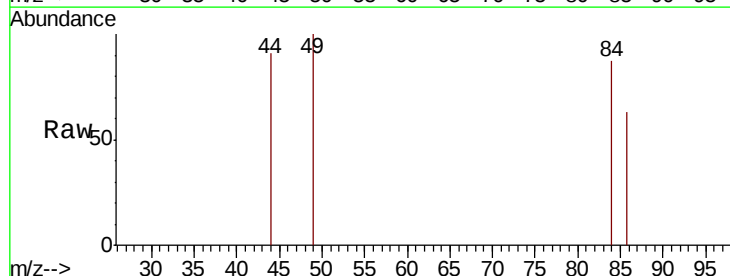
Instrument :  
MSVOA\_N  
ClientSampled :  
VN0825MBL01

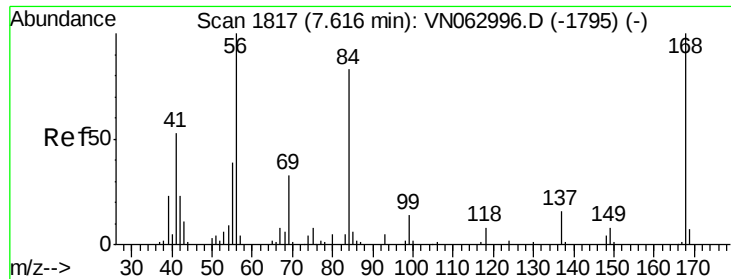
Tot Ion: 43 Resp: 1457  
Ion Ratio Lower Upper  
43 100  
74 0.0 18.6 28.0#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.49 min Scan# 846  
Delta R.T. -0.01 min  
Lab File: VN063105.D  
Acq: 25 Aug 2020 11:16

Tgt Ion: 84 Resp: 358  
Ion Ratio Lower Upper  
84 100  
49 114.5 98.7 148.1  
51 0.0 30.8 46.2#  
86 71.8 51.2 76.8

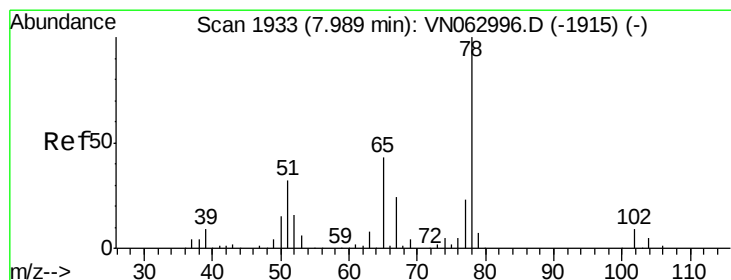
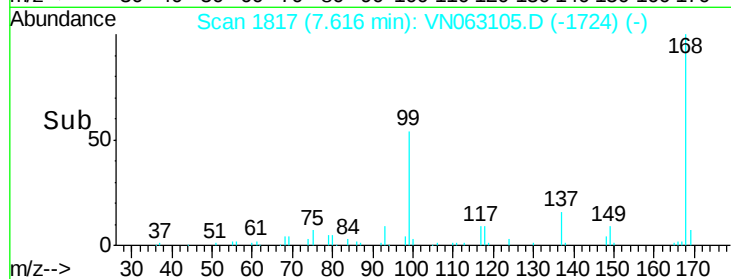
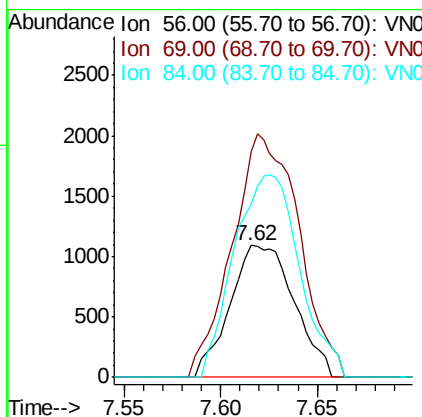
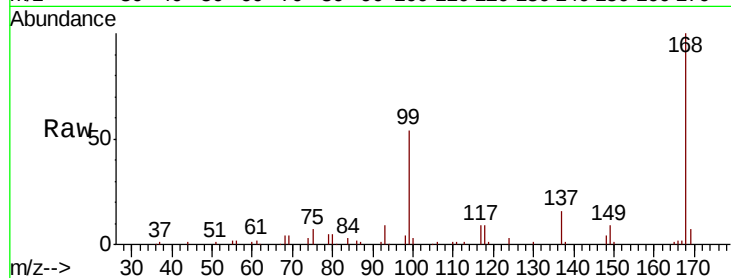




#31  
Cyclohexane  
Concen: 1.042 ug/l  
RT: 7.62 min Scan# 1817  
Delta R.T. 0.00 min  
Lab File: VN063105.D  
Acq: 25 Aug 2020 11:16

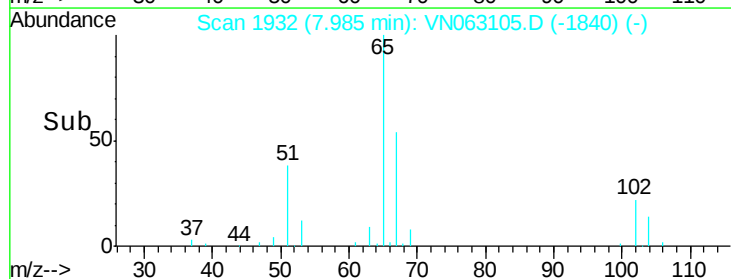
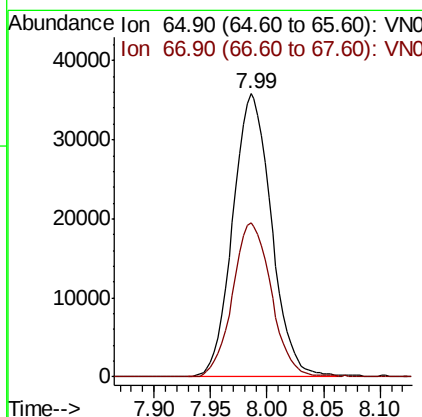
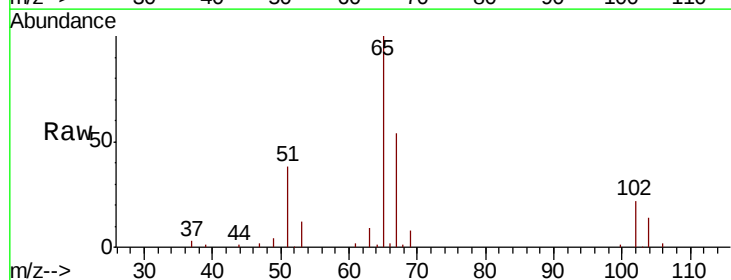
Instrument :  
MSVOA\_N  
ClientSampled :  
VN0825MBL01

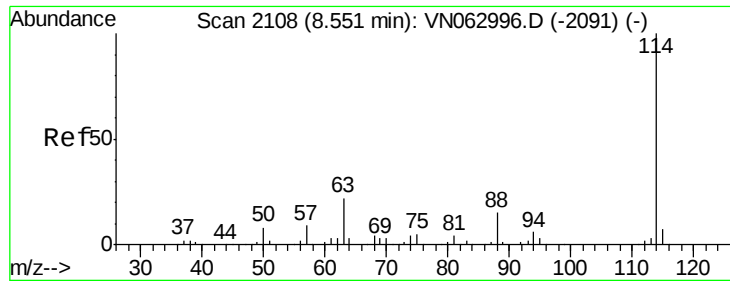
Tot Ion: 56 Resp: 2523  
Ion Ratio Lower Upper  
56 100  
69 170.7 26.6 40.0#  
84 131.0 66.4 99.6#



#33  
1,2-Dichloroethane-d4  
Concen: 51.838 ug/l  
RT: 7.99 min Scan# 1932  
Delta R.T. -0.00 min  
Lab File: VN063105.D  
Acq: 25 Aug 2020 11:16

Tgt Ion: 65 Resp: 85146  
Ion Ratio Lower Upper  
65 100  
67 54.2 0.0 112.0

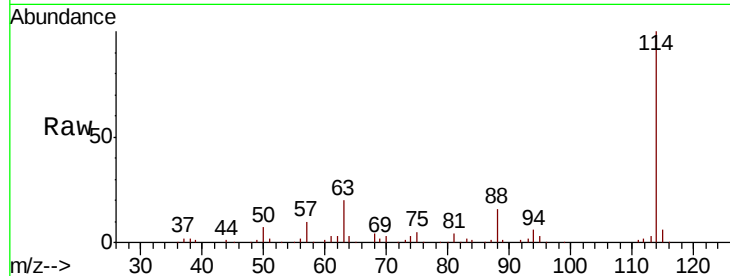




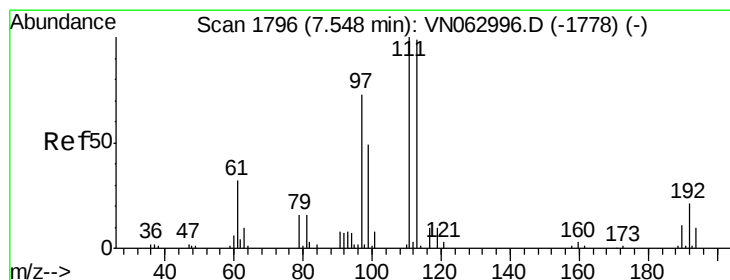
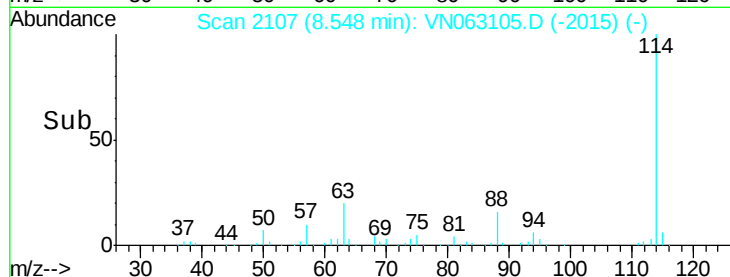
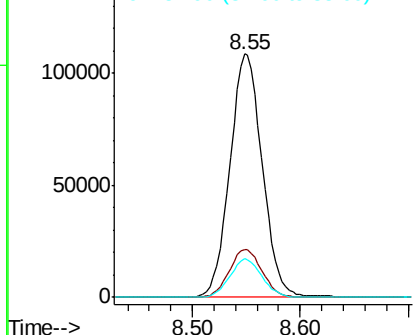
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.55 min Scan# 2107  
 Delta R.T. -0.00 min  
 Lab File: VN063105.D  
 Acq: 25 Aug 2020 11:16

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0825MBL01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 19.8  | 0.0   | 43.2  |
| 88      | 15.8  | 0.0   | 30.6  |

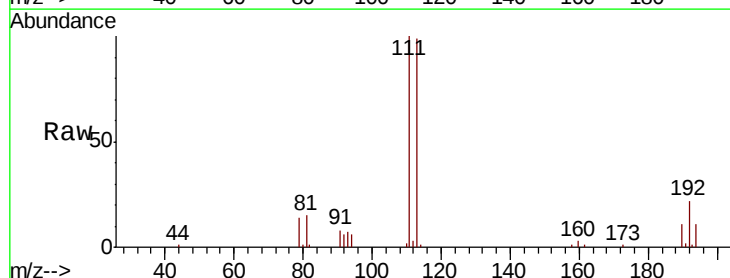


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

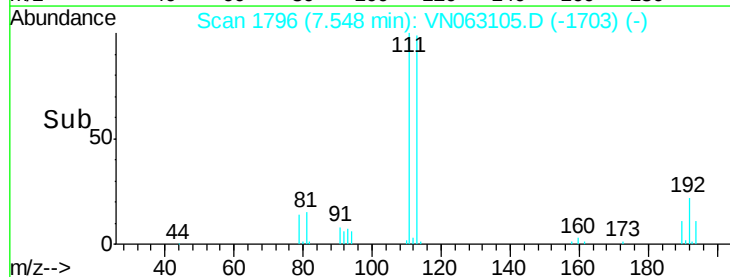
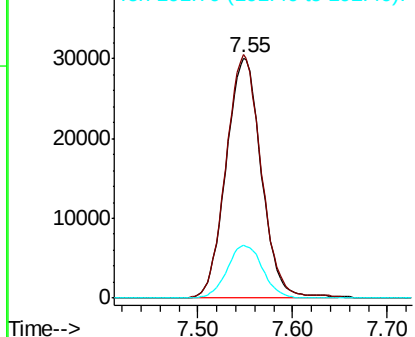


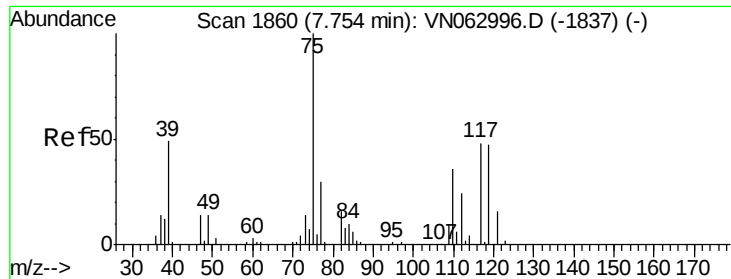
#35  
 Dibromofluoromethane  
 Concen: 52.440 ug/l  
 RT: 7.55 min Scan# 1796  
 Delta R.T. 0.00 min  
 Lab File: VN063105.D  
 Acq: 25 Aug 2020 11:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 100.9 | 81.7  | 122.5 |
| 192     | 22.1  | 17.5  | 26.3  |



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

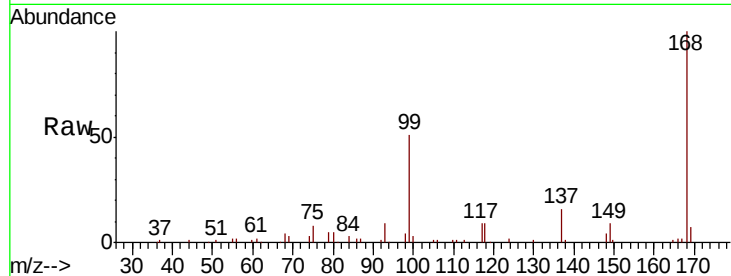




#36  
 1,1-Dichloropropene  
 Concen: 5.015 ug/l  
 RT: 7.62 min Scan# 1819  
 Delta R.T. -0.13 min  
 Lab File: VN063105.D  
 Acq: 25 Aug 2020 11:16

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0825MBL01

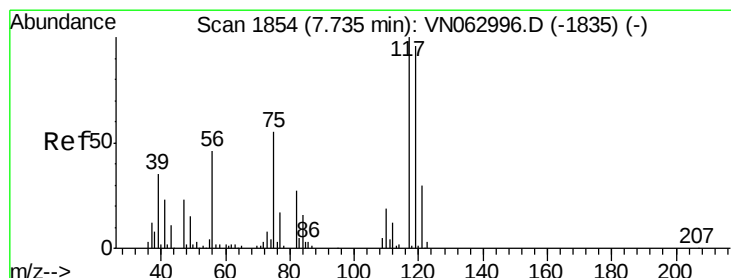
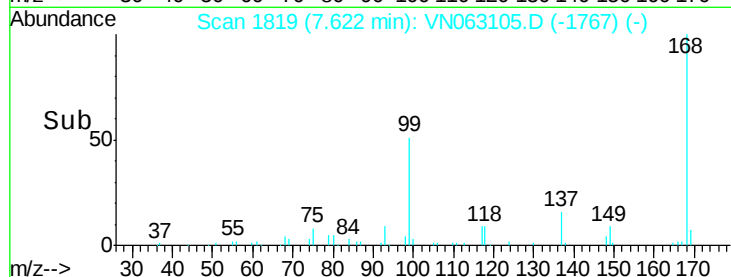
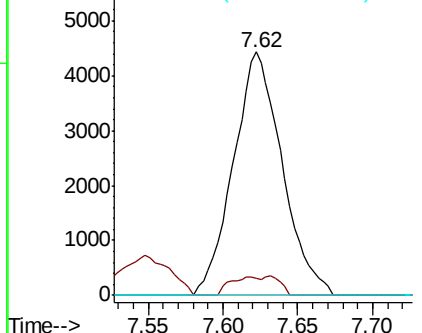
| Tot Ion   | 75  | Resp  | 10062 |
|-----------|-----|-------|-------|
| Ion Ratio | 100 | Lower | Upper |
| 75        | 100 |       |       |
| 110       | 4.7 | 17.5  | 52.6# |
| 77        | 0.0 | 24.2  | 36.4# |



Abundance Ion 74.90 (74.60 to 75.60): VN062996.D (-1837) (-)

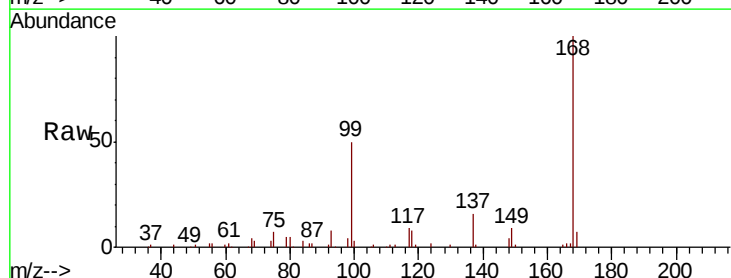
Ion 109.90 (109.60 to 110.60): VN062996.D (-1837) (-)

Ion 76.90 (76.60 to 77.60): VN062996.D (-1837) (-)



#38  
 Carbon Tetrachloride  
 Concen: 6.160 ug/l  
 RT: 7.63 min Scan# 1820  
 Delta R.T. -0.11 min  
 Lab File: VN063105.D  
 Acq: 25 Aug 2020 11:16

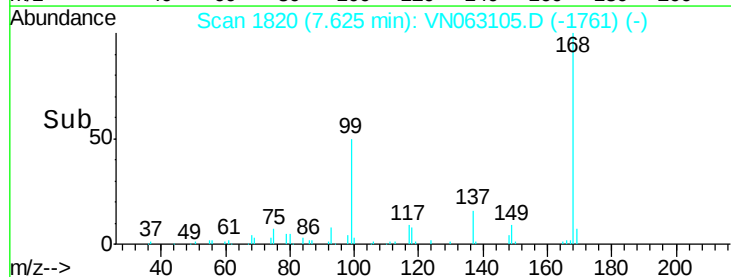
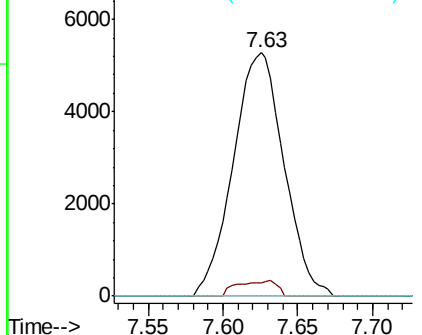
| Tgt Ion   | 117 | Resp  | 12477  |
|-----------|-----|-------|--------|
| Ion Ratio | 100 | Lower | Upper  |
| 117       | 100 |       |        |
| 119       | 5.5 | 76.2  | 114.4# |
| 121       | 0.0 | 24.2  | 36.2#  |

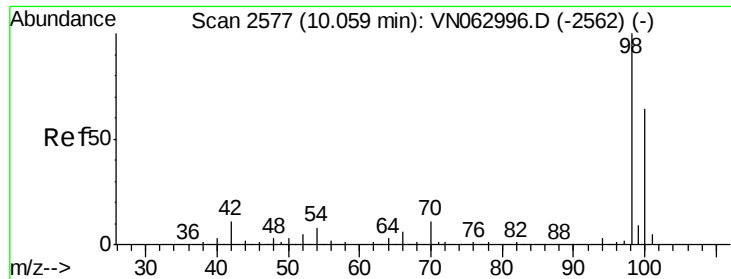


Abundance Ion 116.80 (116.50 to 117.50): VN062996.D (-1835) (-)

Ion 118.80 (118.50 to 119.50): VN062996.D (-1835) (-)

Ion 120.80 (120.50 to 121.50): VN062996.D (-1835) (-)





#50

Toluene-d8

Concen: 52.362 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN063105.D

Acq: 25 Aug 2020 11:16

Instrument :

MSVOA\_N

ClientSampleId :

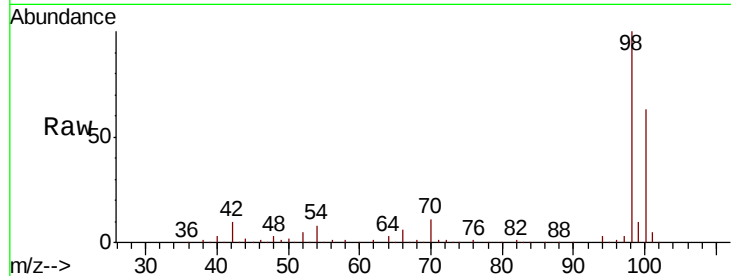
VN0825MBL01

Tot Ion: 98 Resp: 298361

Ion Ratio Lower Upper

98 100

100 63.4 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN062996.D (-2562) (-)

Ion 100.00 (99.70 to 100.70): VN062996.D (-2562) (-)

10.06

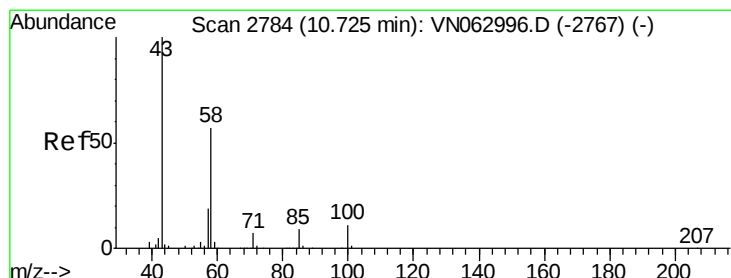
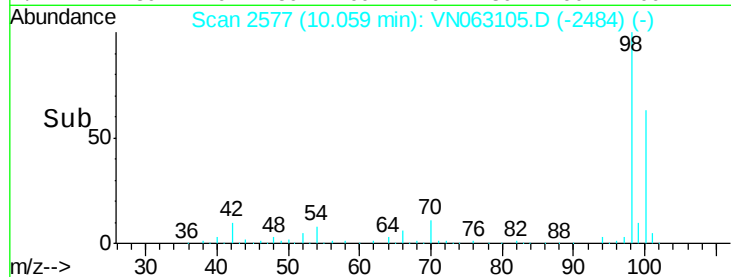
150000

100000

50000

0

Time-->



#59

2-Hexanone

Concen: 0.495 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.01 min

Lab File: VN063105.D

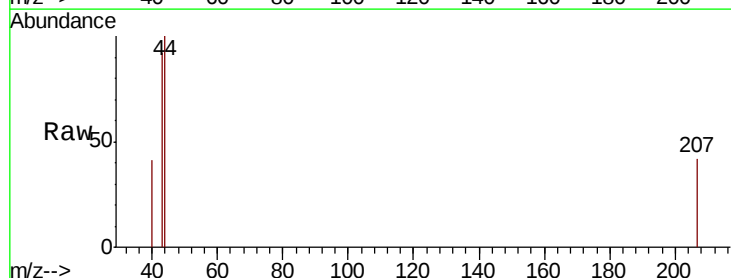
Acq: 25 Aug 2020 11:16

Tgt Ion: 43 Resp: 680

Ion Ratio Lower Upper

43 100

58 0.0 28.1 84.3#



Abundance Ion 43.00 (42.70 to 43.70): VN062996.D (-2767) (-)

Ion 58.00 (57.70 to 58.70): VN062996.D (-2767) (-)

10.74

400

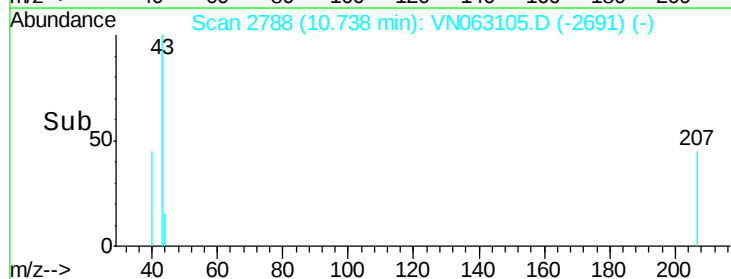
300

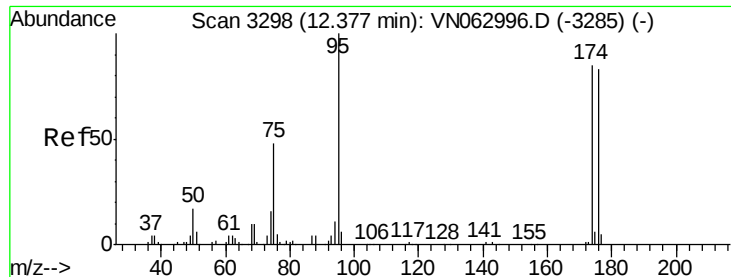
200

100

0

Time-->





#62

4-Bromofluorobenzene

Concen: 52.359 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN063105.D

Acq: 25 Aug 2020 11:16

Instrument :

MSVOA\_N

ClientSampleId :

VN0825MBL01

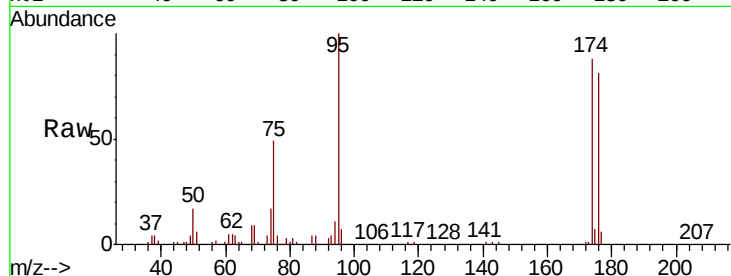
Tot Ion: 95 Resp: 105281

Ion Ratio Lower Upper

95 100

174 87.1 0.0 170.8

176 82.3 0.0 164.8

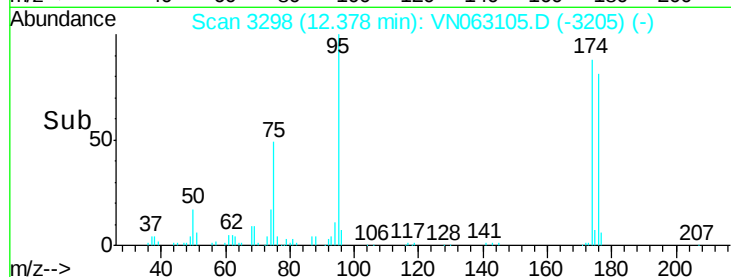


Abundance Ion 94.90 (94.60 to 95.60): VN062996.D (-3285) (-)

Ion 173.80 (173.50 to 174.50): VN062996.D (-3285) (-)

Ion 175.80 (175.50 to 176.50): VN062996.D (-3285) (-)

Time-->

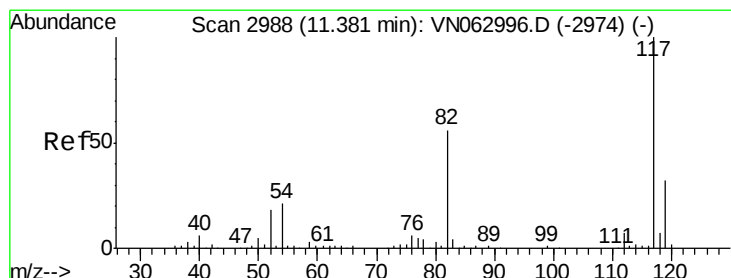


Abundance Ion 94.90 (94.60 to 95.60): VN063105.D (-3205) (-)

Ion 173.80 (173.50 to 174.50): VN063105.D (-3205) (-)

Ion 175.80 (175.50 to 176.50): VN063105.D (-3205) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. 0.00 min

Lab File: VN063105.D

Acq: 25 Aug 2020 11:16

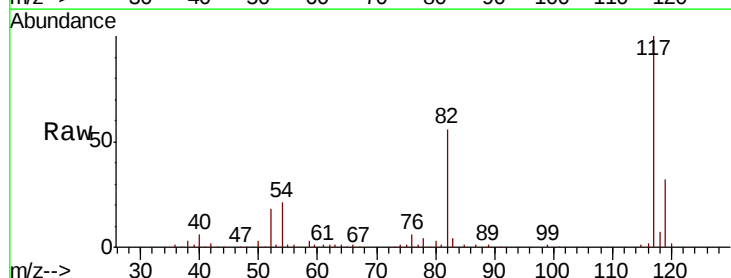
Tgt Ion: 117 Resp: 242835

Ion Ratio Lower Upper

117 100

82 55.7 44.5 66.7

119 31.6 25.5 38.3

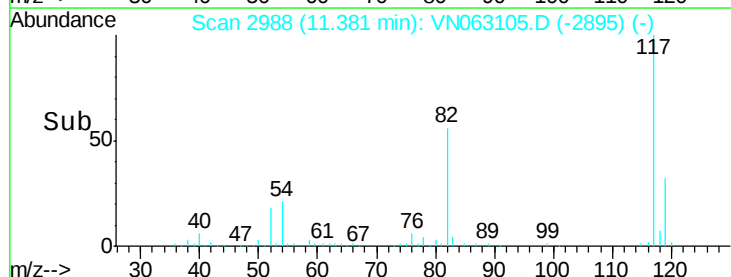


Abundance Ion 116.90 (116.60 to 117.60): VN062996.D (-2974) (-)

Ion 82.00 (81.70 to 82.70): VN062996.D (-2974) (-)

Ion 118.90 (118.60 to 119.60): VN062996.D (-2974) (-)

Time-->

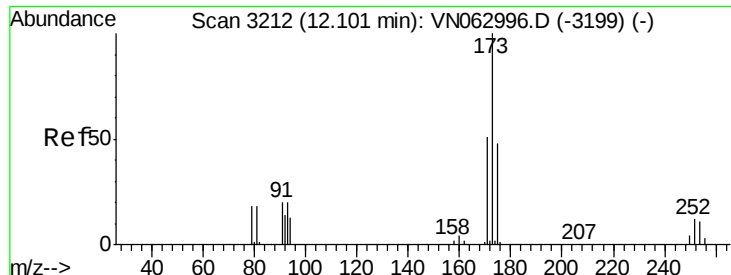


Abundance Ion 116.90 (116.60 to 117.60): VN063105.D (-2895) (-)

Ion 82.00 (81.70 to 82.70): VN063105.D (-2895) (-)

Ion 118.90 (118.60 to 119.60): VN063105.D (-2895) (-)

Time-->



#71

Bromoform

Concen: 0.491 ug/l

RT: 12.38 min Scan# 3299

Delta R.T. 0.28 min

Lab File: VN063105.D

Acq: 25 Aug 2020 11:16

Instrument :

MSVOA\_N

ClientSampled :

VN0825MBL01

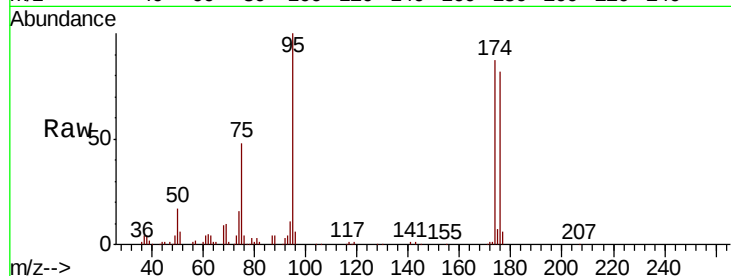
Tot Ion:173 Resp: 741

Ion Ratio Lower Upper

173 100

175 749.7 24.3 72.8#

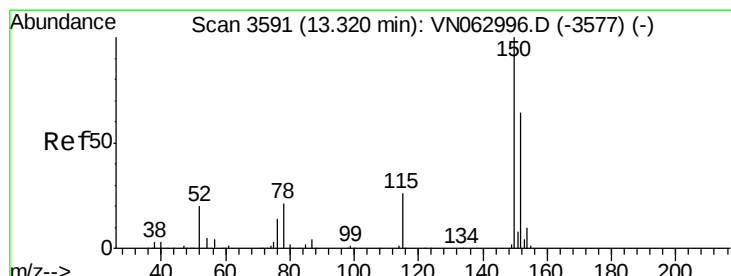
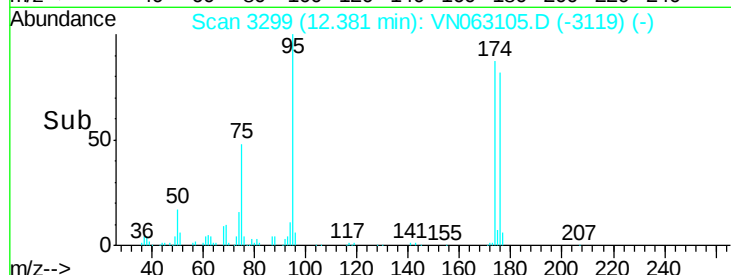
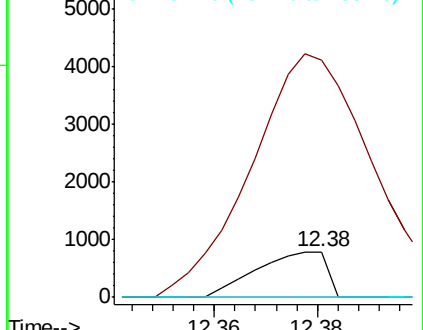
254 0.0 0.0 0.0



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: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN063105.D

Acq: 25 Aug 2020 11:16

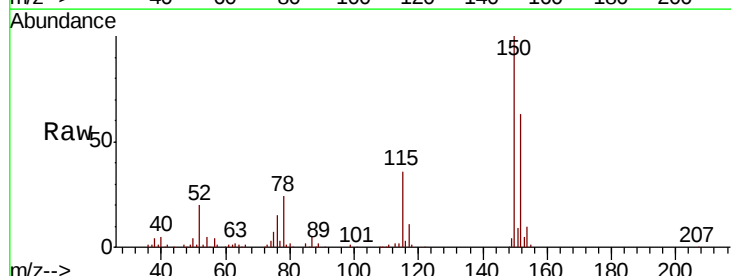
Tgt Ion:152 Resp: 98578

Ion Ratio Lower Upper

152 100

115 56.2 28.7 86.3

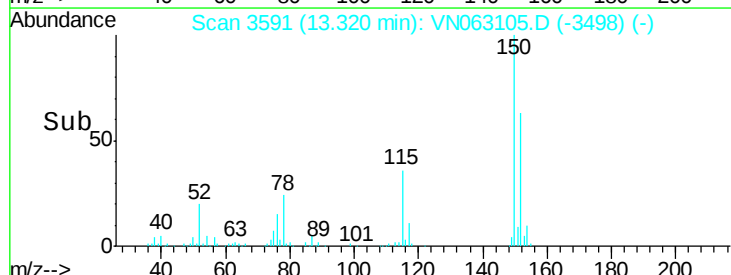
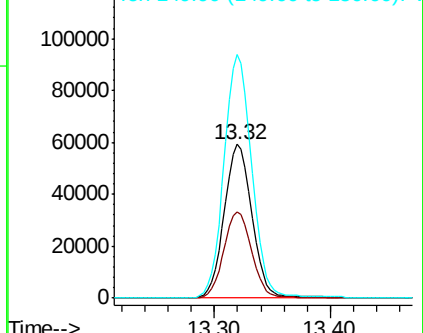
150 157.7 0.0 348.8

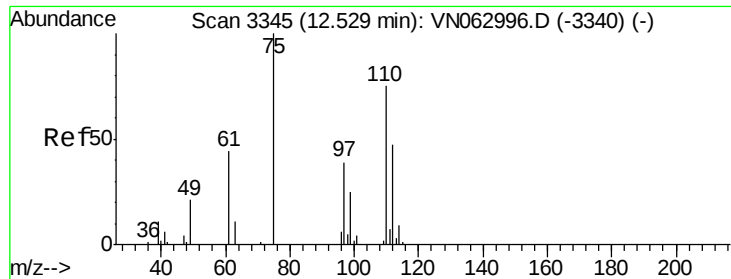


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 26.195 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN063105.D

Acq: 25 Aug 2020 11:16

Instrument :

MSVOA\_N

ClientSampleId :

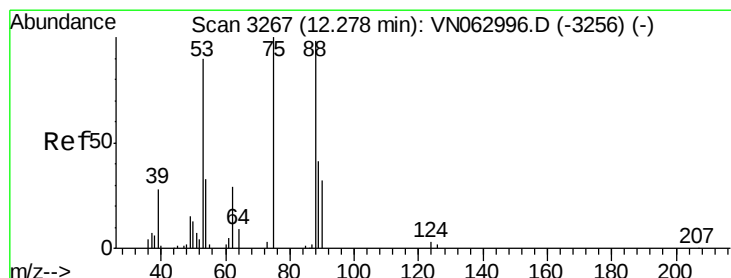
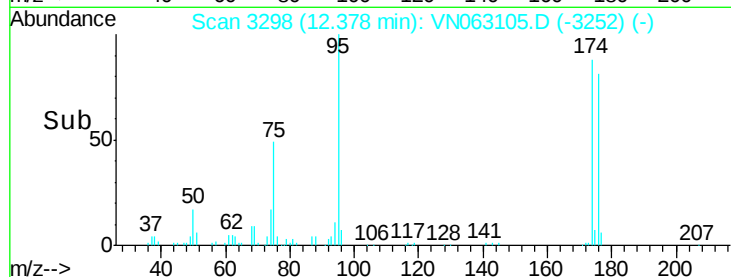
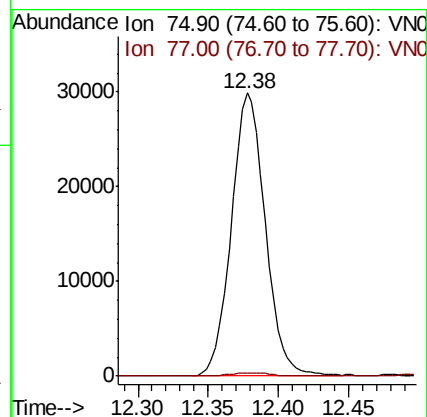
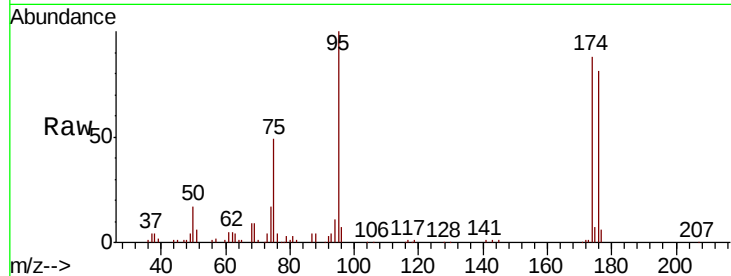
VN0825MBL01

Tot Ion: 75 Resp: 50194

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 71.945 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN063105.D

Acq: 25 Aug 2020 11:16

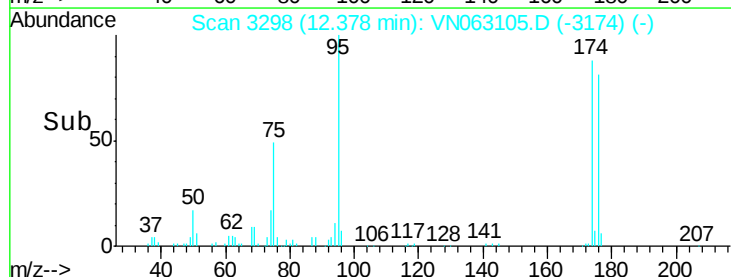
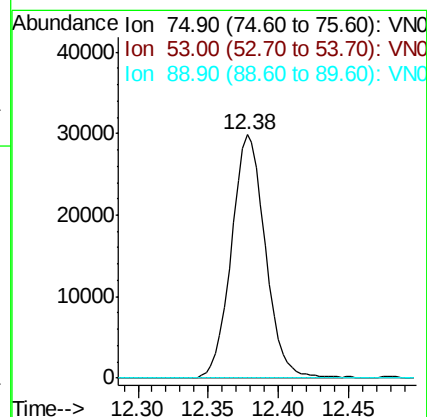
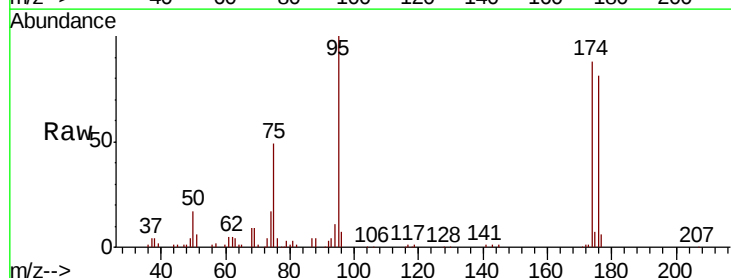
Tgt Ion: 75 Resp: 50194

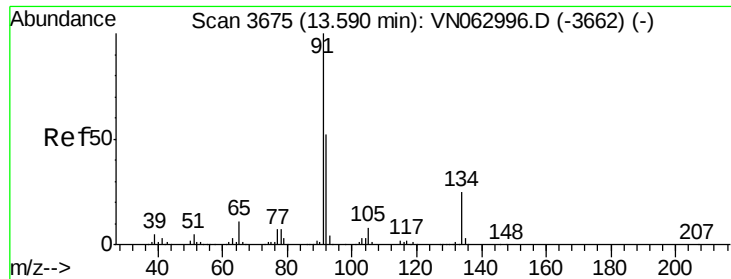
Ion Ratio Lower Upper

75 100

53 0.0 69.2 103.8#

89 0.0 34.2 51.4#

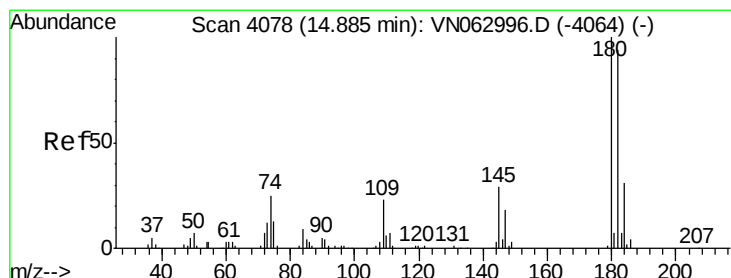
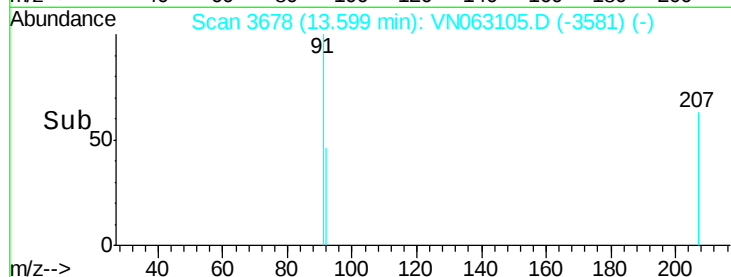
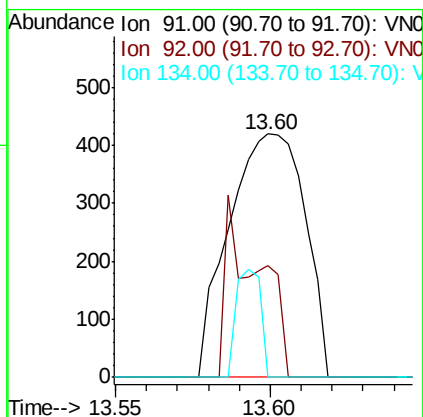
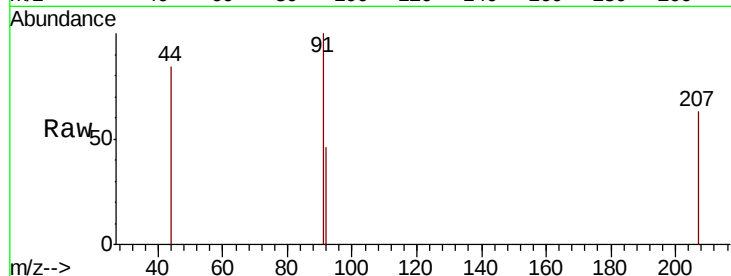




#89  
n-Butylbenzene  
Concen: 2.897 ug/l  
RT: 13.60 min Scan# 3678  
Delta R.T. 0.01 min  
Lab File: VN063105.D  
Acq: 25 Aug 2020 11:16

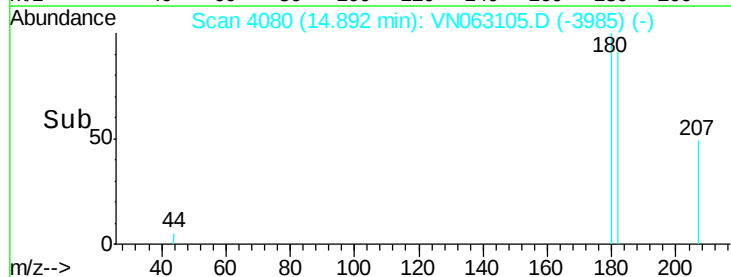
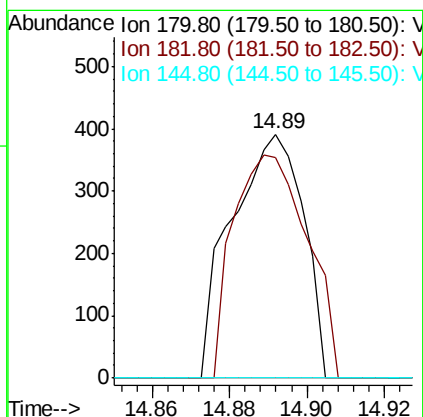
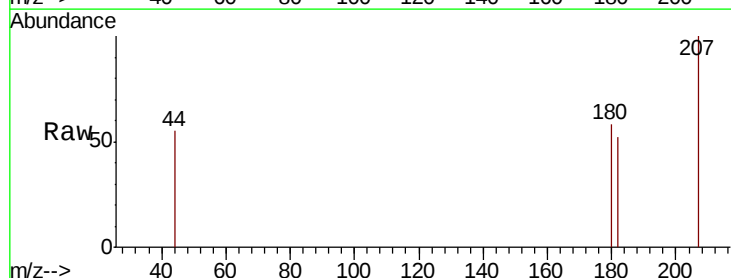
Instrument :  
MSVOA\_N  
ClientSampled :  
VN0825MBL01

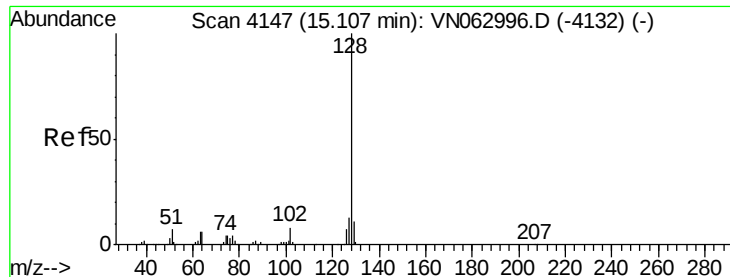
Tot Ion: 91 Resp: 717  
Ion Ratio Lower Upper  
91 100  
92 17.7 25.9 77.6#  
134 14.2 12.4 37.0



#93  
1,2,4-Trichlorobenzene  
Concen: 4.814 ug/l  
RT: 14.89 min Scan# 4080  
Delta R.T. 0.01 min  
Lab File: VN063105.D  
Acq: 25 Aug 2020 11:16

Tgt Ion: 180 Resp: 505  
Ion Ratio Lower Upper  
180 100  
182 94.1 47.0 141.2  
145 0.0 14.1 42.4#





#95

Naphthalene

Concen: 5.978 ug/l

RT: 15.11 min Scan# 4148

Delta R.T. 0.00 min

Lab File: VN063105.D

Acq: 25 Aug 2020 11:16

Instrument :

MSVOA\_N

ClientSampled :

VN0825MBL01

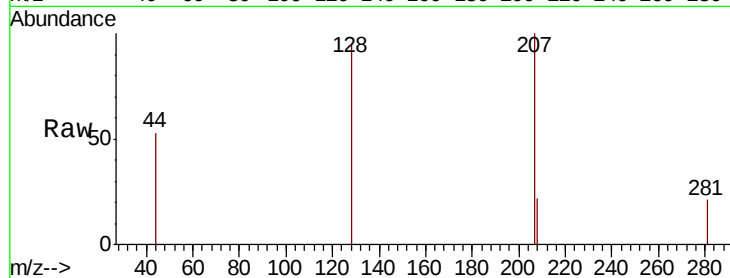
Tot Ion:128 Resp: 1490

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

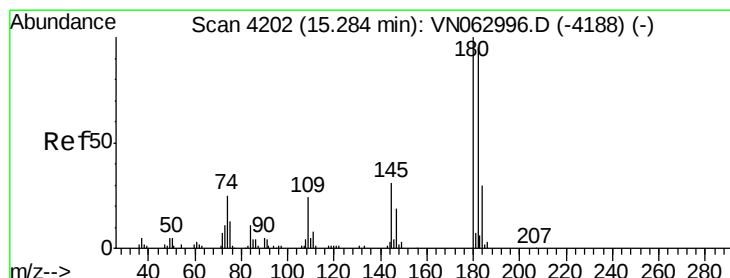
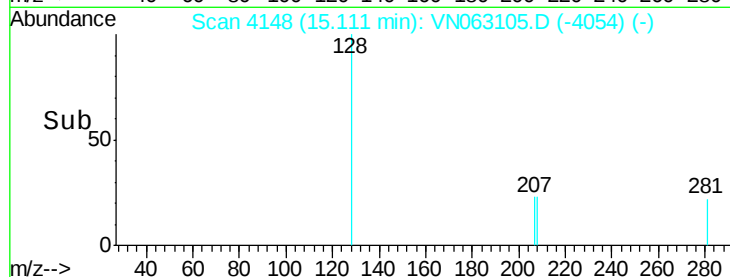
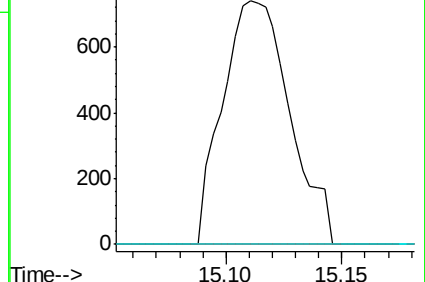
129 0.0 8.9 13.3#



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: 4.289 ug/l

RT: 15.29 min Scan# 4203

Delta R.T. 0.00 min

Lab File: VN063105.D

Acq: 25 Aug 2020 11:16

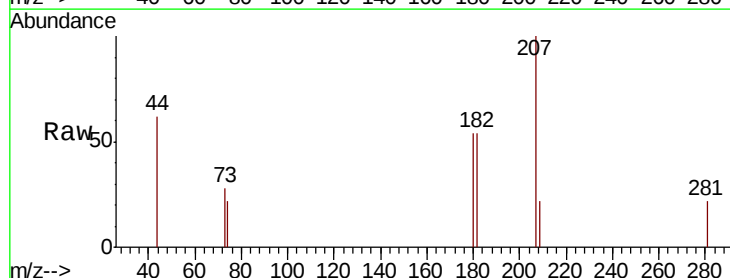
Tgt Ion:180 Resp: 588

Ion Ratio Lower Upper

180 100

182 94.0 47.3 141.9

145 0.0 15.6 46.7#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

