

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112520\  
 Data File : VN064856.D  
 Acq On : 25 Nov 2020 15:06  
 Operator : JC/MD  
 Sample : L4896-11  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 61-70

Quant Time: Nov 26 03:41:38 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N112320W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Nov 23 13:54:12 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 156640   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 279925   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 289323   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 131516   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 33) 1,2-Dichloroethane-d4 | 7.99   | 65    | 96161    | 52.81    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 61 - 141 | Recovery | =    | 105.62% |
| 35) Dibromofluoromethane  | 7.55   | 113   | 88956    | 53.11    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 69 - 133 | Recovery | =    | 106.22% |
| 50) Toluene-d8            | 10.06  | 98    | 343354   | 50.17    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 65 - 126 | Recovery | =    | 100.34% |
| 62) 4-Bromofluorobenzene  | 12.38  | 95    | 134065   | 54.74    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 58 - 135 | Recovery | =    | 109.48% |

## Target Compounds

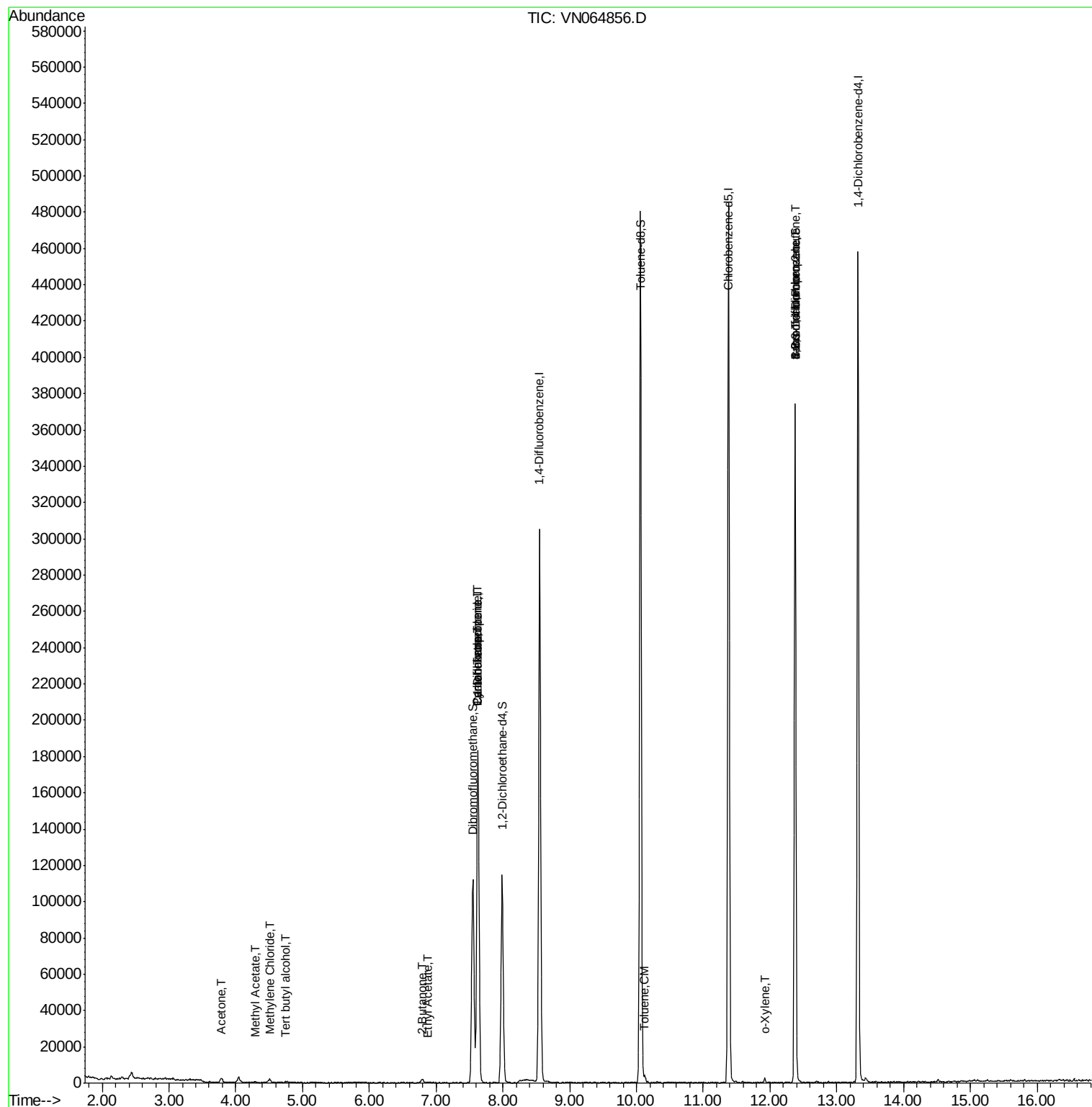
|                                |       |     |       |        |        | Qvalue |
|--------------------------------|-------|-----|-------|--------|--------|--------|
| 11) Tert butyl alcohol         | 4.75  | 59  | 882   | 3.106  | ug/l # | 73     |
| 16) Acetone                    | 3.78  | 43  | 4264  | 7.123  | ug/l   | 96     |
| 18) Methyl Acetate             | 4.30  | 43  | 556   | 0.309  | ug/l # | 50     |
| 20) Methylene Chloride         | 4.51  | 84  | 1729  | 0.922  | ug/l   | 94     |
| 25) 2-Butanone                 | 6.79  | 43  | 196   | 0.202  | ug/l # | 49     |
| 31) Cyclohexane                | 7.62  | 56  | 2863  | 1.128  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.63  | 75  | 10742 | 4.140  | ug/l # | 48     |
| 37) Ethyl Acetate              | 6.88  | 43  | 511   | 0.204  | ug/l # | 66     |
| 38) Carbon Tetrachloride       | 7.62  | 117 | 14714 | 5.450  | ug/l # | 16     |
| 52) Toluene                    | 10.12 | 92  | 1520  | 0.310  | ug/l   | 96     |
| 69) o-Xylene                   | 11.92 | 106 | 916   | 0.246  | ug/l   | 86     |
| 71) Bromoform                  | 12.37 | 173 | 575   | 0.315  | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.38 | 75  | 62483 | 22.061 | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75  | 62483 | 60.463 | ug/l # | 15     |

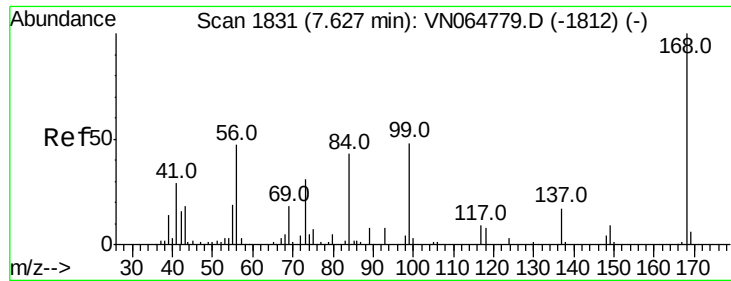
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN112520\  
Data File : VN064856.D  
Acq On : 25 Nov 2020 15:06  
Operator : JC/MD  
Sample : L4896-11  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
61-70

Quant Time: Nov 26 03:41:38 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N112320W.M  
Quant Title : SW846 8260  
QLast Update : Mon Nov 23 13:54:12 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: VN064856.D

Acq: 25 Nov 2020 15:06

Instrument :

MSVOA\_N

ClientSampled :

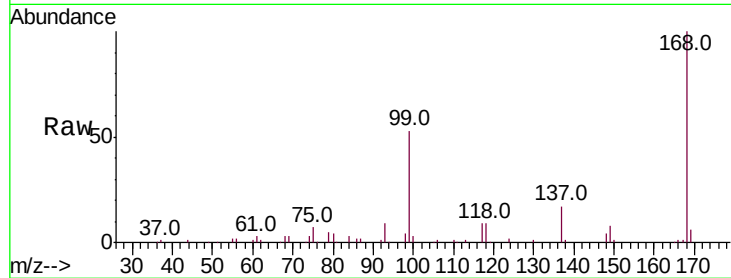
61-70

Tot Ion:168 Resp: 156640

Ion Ratio Lower Upper

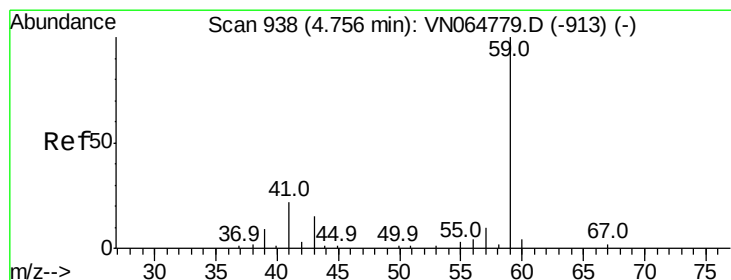
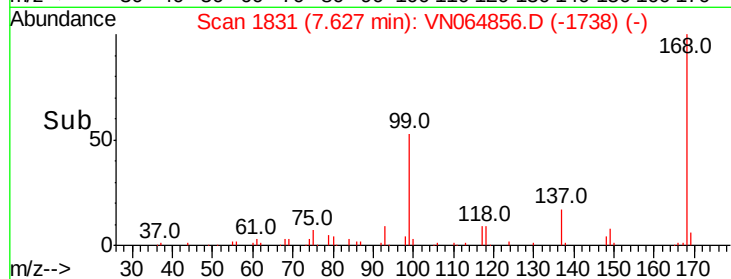
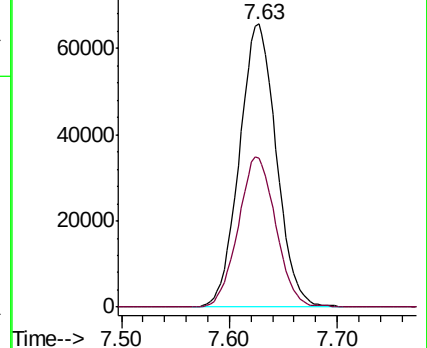
168 100

99 52.5 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#11

Tert butyl alcohol

Concen: 3.106 ug/l

RT: 4.75 min Scan# 936

Delta R.T. -0.01 min

Lab File: VN064856.D

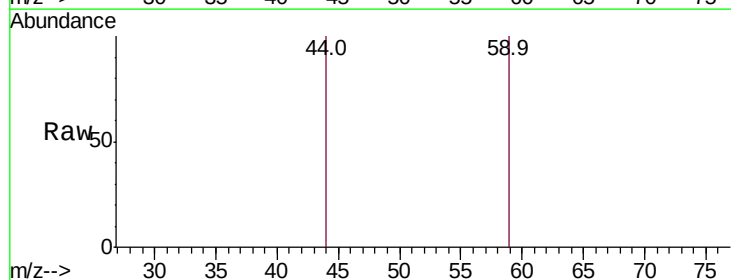
Acq: 25 Nov 2020 15:06

Tgt Ion: 59 Resp: 882

Ion Ratio Lower Upper

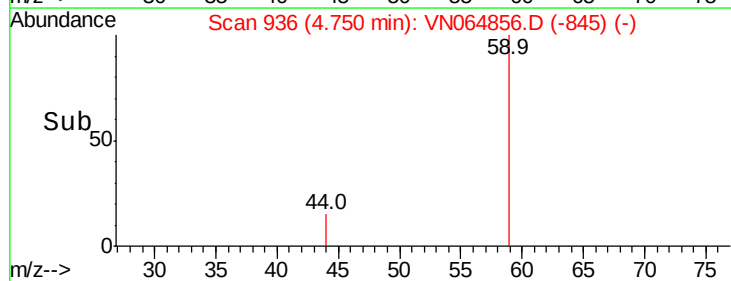
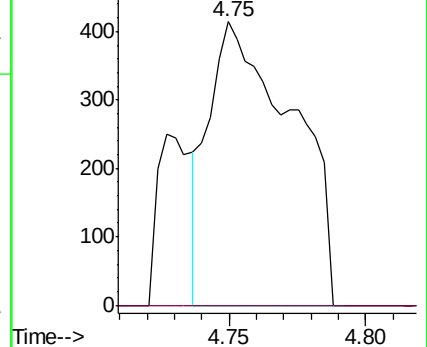
59 100

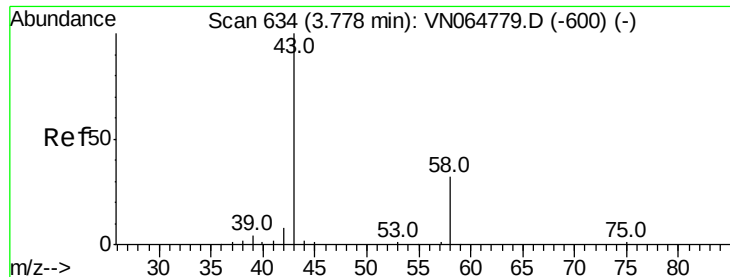
57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#16

Acetone

Concen: 7.123 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN064856.D

Acq: 25 Nov 2020 15:06

Instrument :

MSVOA\_N

ClientSampled :

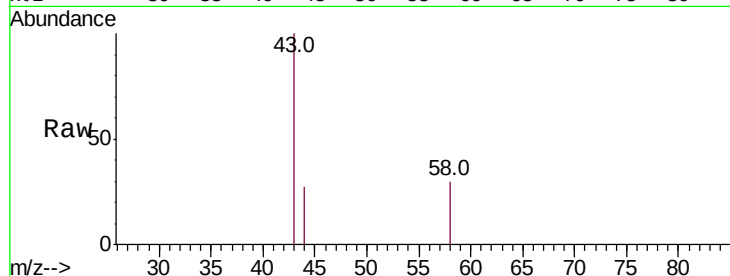
61-70

Tot Ion: 43 Resp: 4264

Ion Ratio Lower Upper

43 100

58 29.9 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VN064856.D (-541) (-)

Ion 58.00 (57.70 to 58.70): VN064856.D (-541) (-)

3.78

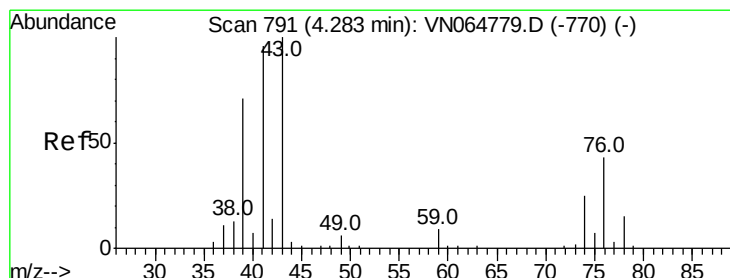
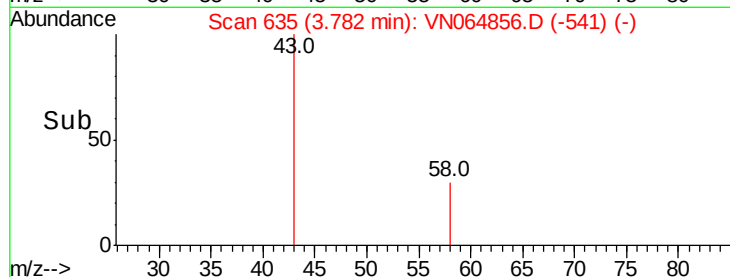
1500

1000

500

0

Time--> 3.70 3.75 3.80 3.85



#18

Methyl Acetate

Concen: 0.309 ug/l

RT: 4.30 min Scan# 795

Delta R.T. 0.01 min

Lab File: VN064856.D

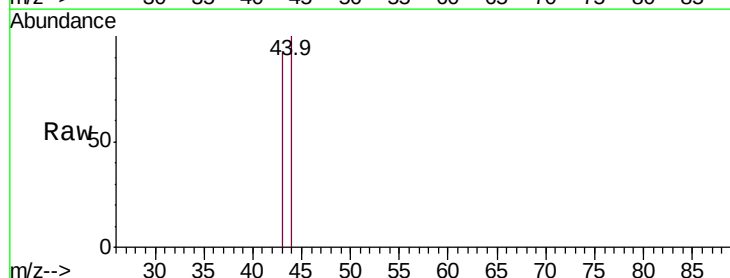
Acq: 25 Nov 2020 15:06

Tgt Ion: 43 Resp: 556

Ion Ratio Lower Upper

43 100

74 0.0 20.2 30.2#



Abundance Ion 43.00 (42.70 to 43.70): VN064856.D (-698) (-)

Ion 74.00 (73.70 to 74.70): VN064856.D (-698) (-)

4.30

400

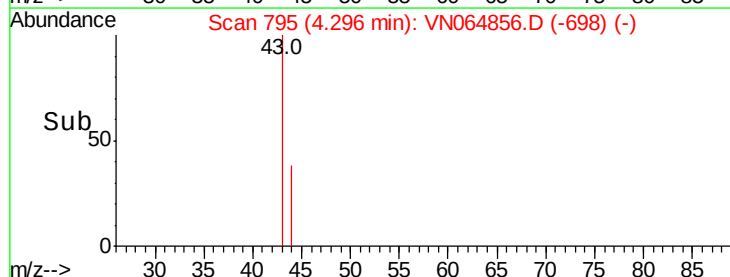
300

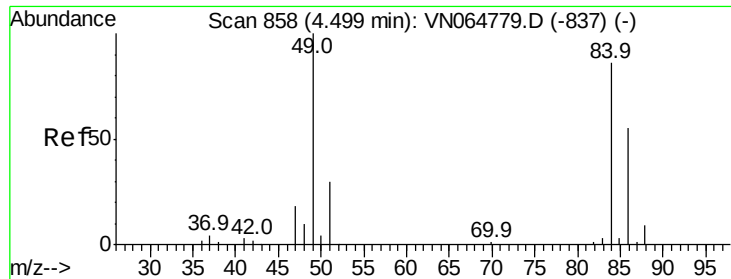
200

100

0

Time--> 4.26 4.28 4.30 4.32



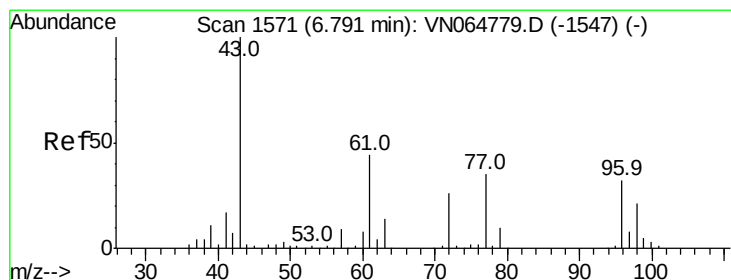
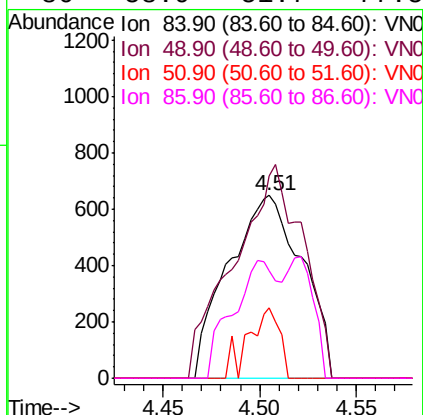
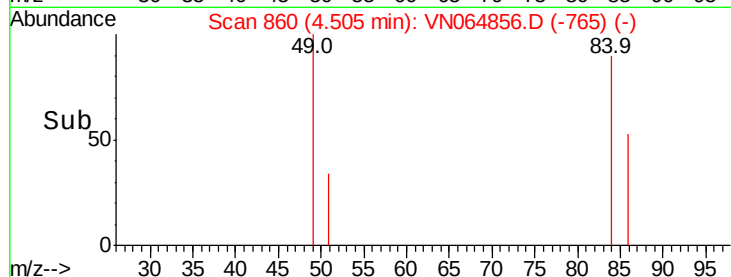
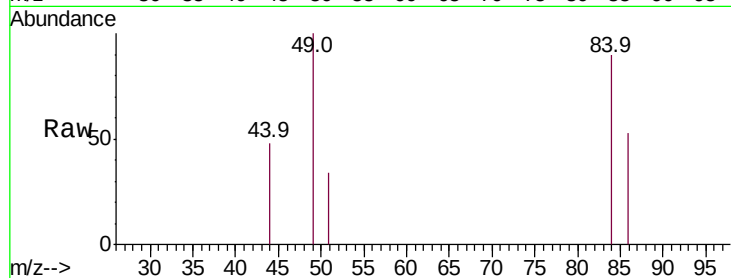


#20  
Methvlene Chloride  
Concen: 0.922 ug/l  
RT: 4.51 min Scan# 860  
Delta R.T. 0.01 min  
Lab File: VN064856.D  
Acq: 25 Nov 2020 15:06

Instrument :  
MSVOA\_N  
ClientSampleId :  
61-70

Tot Ion: 84 Resp: 1729

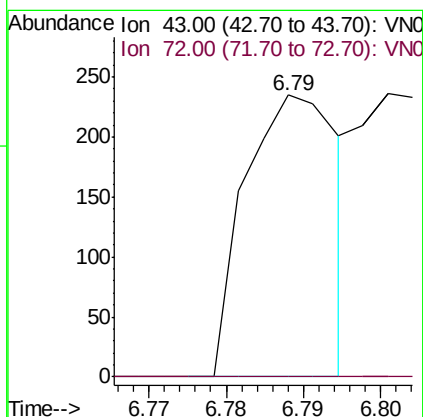
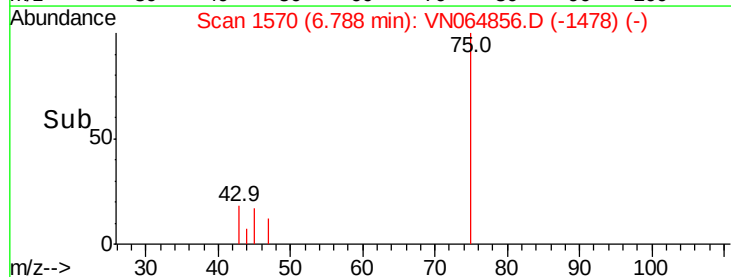
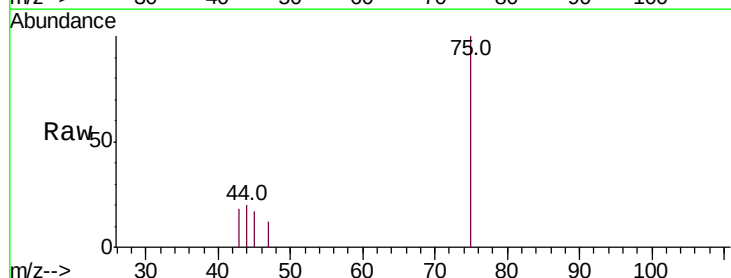
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 110.9 | 93.4  | 140.0 |
| 51  | 38.2  | 28.2  | 42.4  |
| 86  | 58.9  | 51.7  | 77.5  |

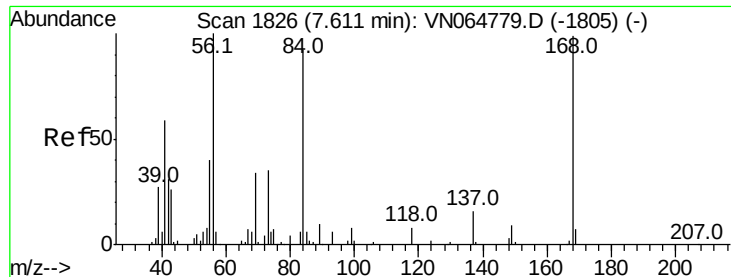


#25  
2-Butanone  
Concen: 0.202 ug/l  
RT: 6.79 min Scan# 1570  
Delta R.T. -0.00 min  
Lab File: VN064856.D  
Acq: 25 Nov 2020 15:06

Tgt Ion: 43 Resp: 196

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 0.0   | 21.0  | 31.6# |

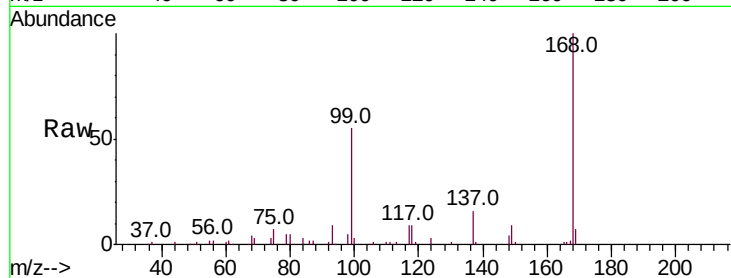




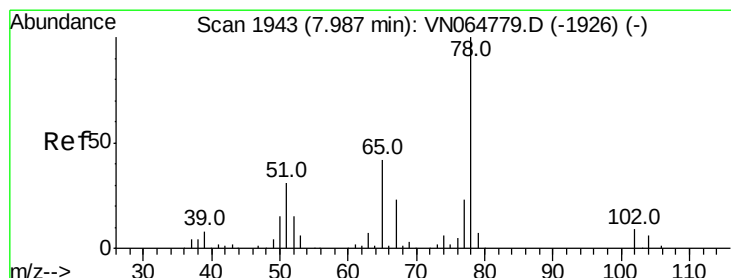
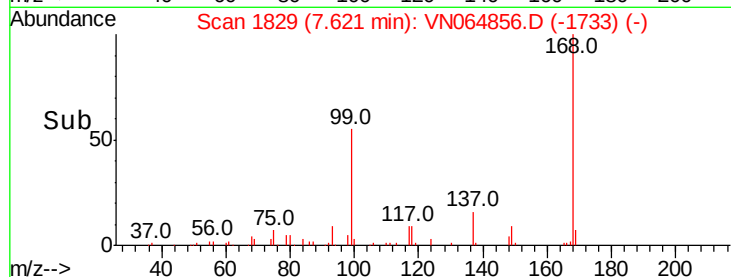
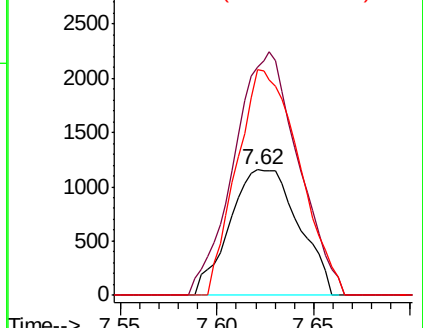
#31  
Cyclohexane  
Concen: 1.128 ug/l  
RT: 7.62 min Scan# 1829  
Delta R.T. 0.01 min  
Lab File: VN064856.D  
Acq: 25 Nov 2020 15:06

Instrument :  
MSVOA\_N  
ClientSampleId :  
61-70

Tot Ion: 56 Resp: 2863  
Ion Ratio Lower Upper  
56 100  
69 181.2 27.5 41.3#  
84 179.3 73.9 110.9#

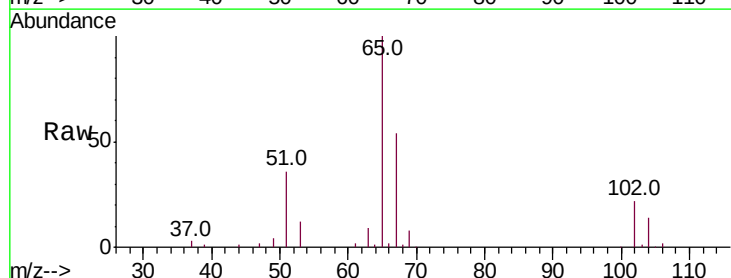


Abundance Ion 56.00 (55.70 to 56.70): VN0  
Ion 69.00 (68.70 to 69.70): VN0  
Ion 84.00 (83.70 to 84.70): VN0

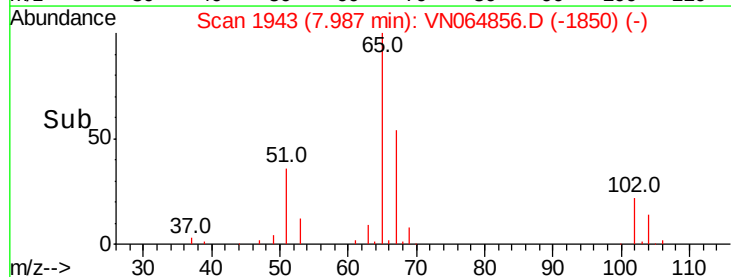
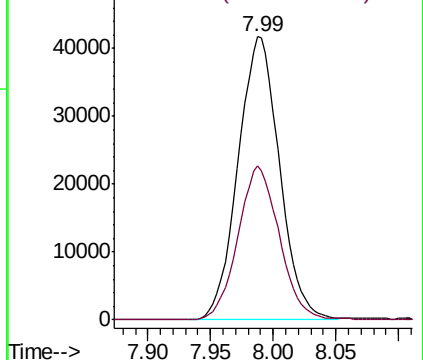


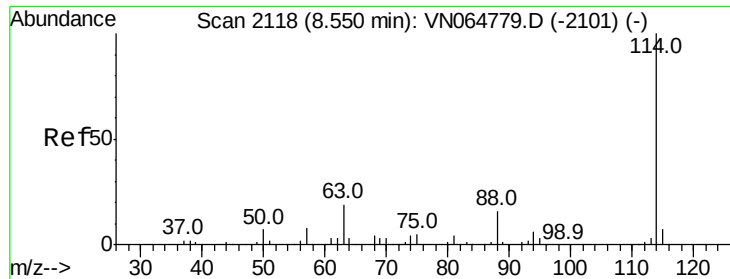
#33  
1,2-Dichloroethane-d4  
Concen: 52.805 ug/l  
RT: 7.99 min Scan# 1943  
Delta R.T. 0.00 min  
Lab File: VN064856.D  
Acq: 25 Nov 2020 15:06

Tgt Ion: 65 Resp: 96161  
Ion Ratio Lower Upper  
65 100  
67 53.9 0.0 108.2



Abundance Ion 64.90 (64.60 to 65.60): VN0  
Ion 66.90 (66.60 to 67.60): VN0

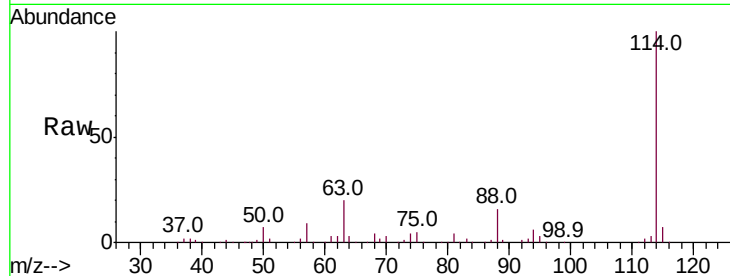




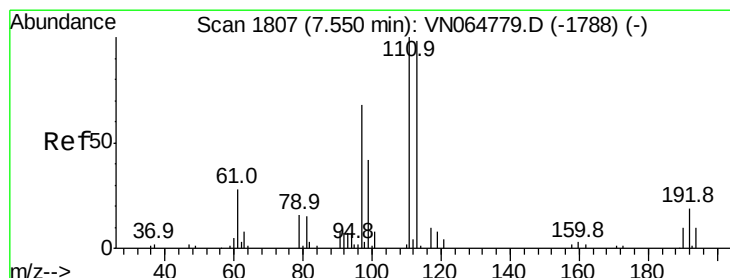
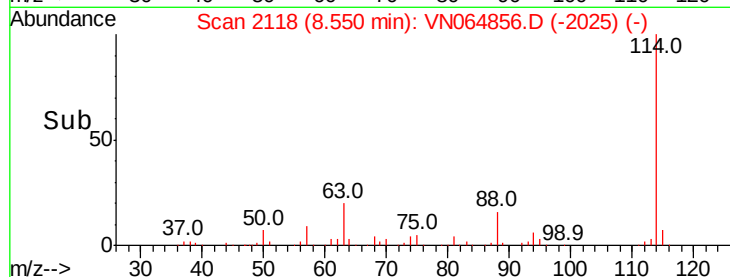
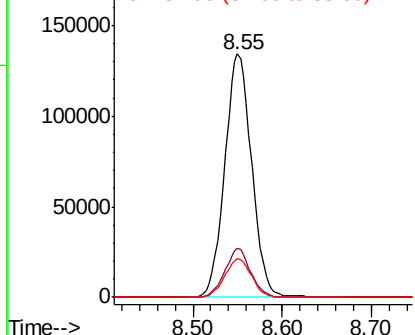
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.55 min Scan# 2118  
 Delta R.T. 0.00 min  
 Lab File: VN064856.D  
 Acq: 25 Nov 2020 15:06

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 61-70

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 20.3  | 0.0   | 38.6  |
| 88      | 15.8  | 0.0   | 32.6  |

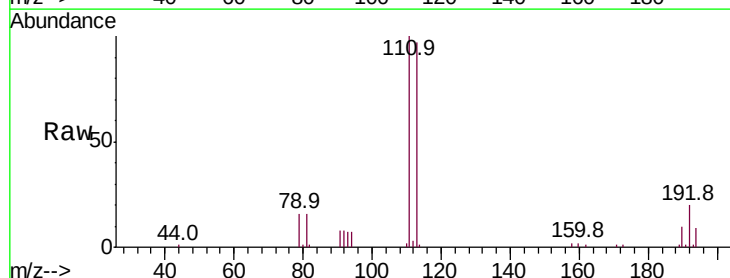


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

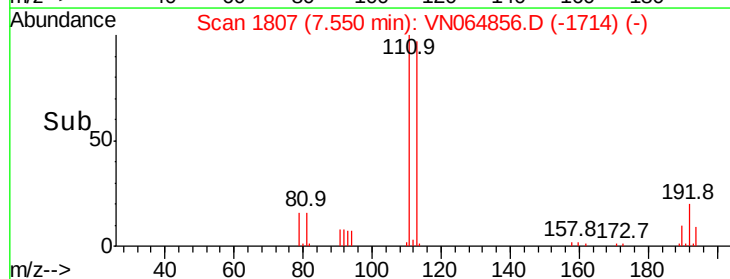
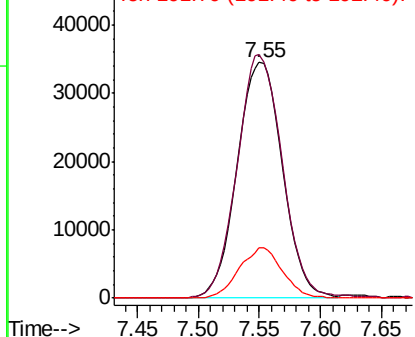


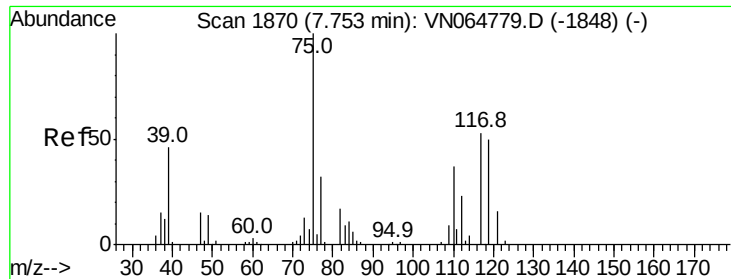
#35  
 Dibromofluoromethane  
 Concen: 53.109 ug/l  
 RT: 7.55 min Scan# 1807  
 Delta R.T. 0.00 min  
 Lab File: VN064856.D  
 Acq: 25 Nov 2020 15:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.9 | 81.6  | 122.4 |
| 192     | 20.2  | 16.2  | 24.2  |



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

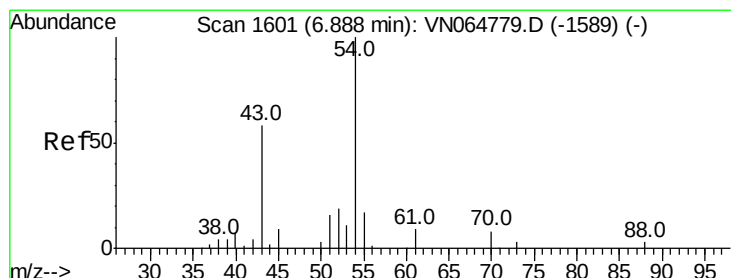
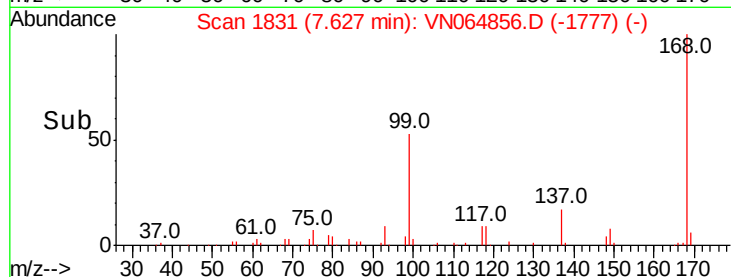
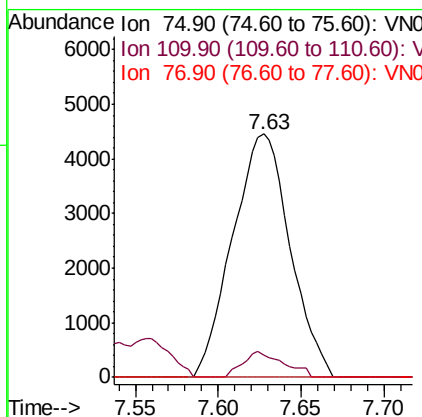
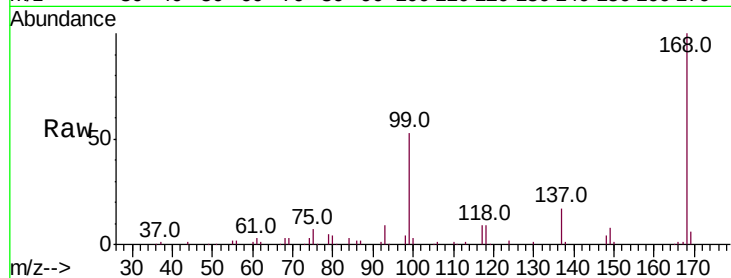




#36  
 1,1-Dichloropropene  
 Concen: 4.140 ug/l  
 RT: 7.63 min Scan# 1831  
 Delta R.T. -0.13 min  
 Lab File: VN064856.D  
 Acq: 25 Nov 2020 15:06

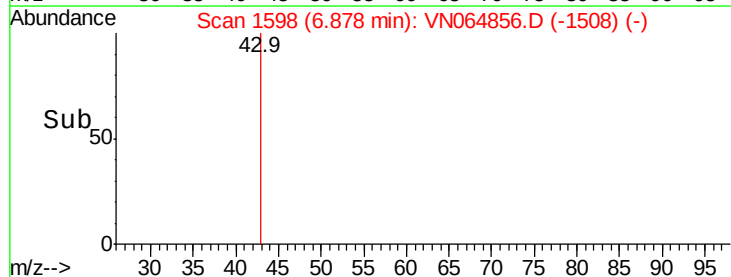
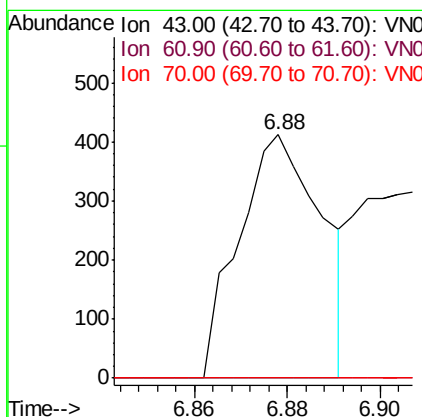
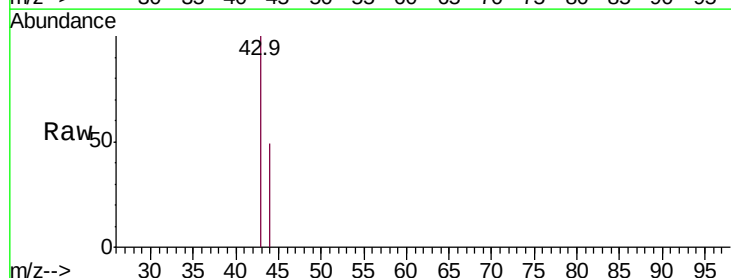
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 61-70

Tot Ion: 75 Resp: 10742  
 Ion Ratio Lower Upper  
 75 100  
 110 7.5 17.8 53.3#  
 77 0.0 25.0 37.4#

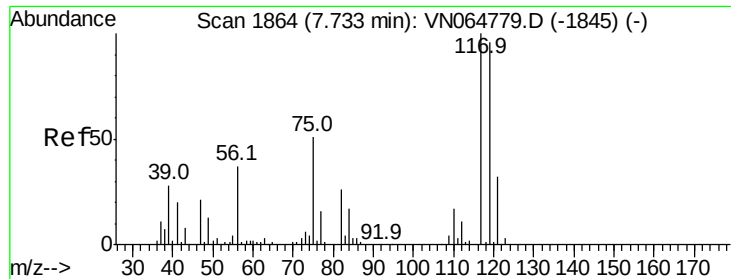


#37  
 Ethyl Acetate  
 Concen: 0.204 ug/l  
 RT: 6.88 min Scan# 1598  
 Delta R.T. -0.01 min  
 Lab File: VN064856.D  
 Acq: 25 Nov 2020 15:06

Tgt Ion: 43 Resp: 511  
 Ion Ratio Lower Upper  
 43 100  
 61 0.0 12.8 19.2#  
 70 0.0 8.8 13.2#



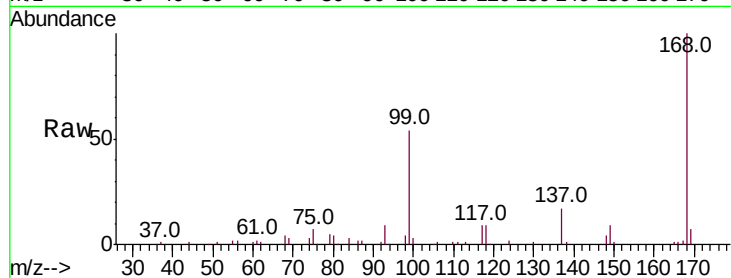




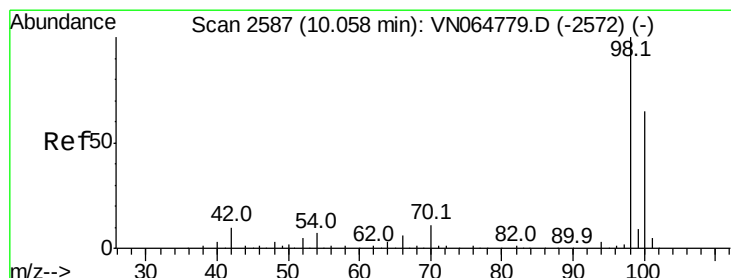
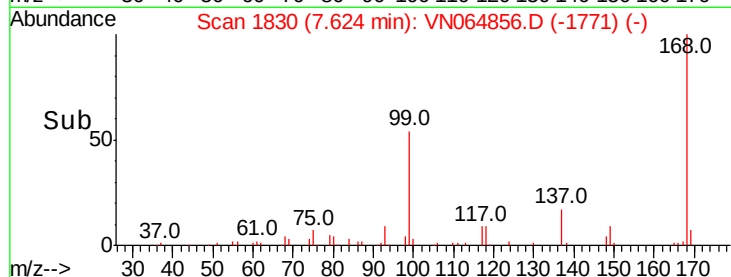
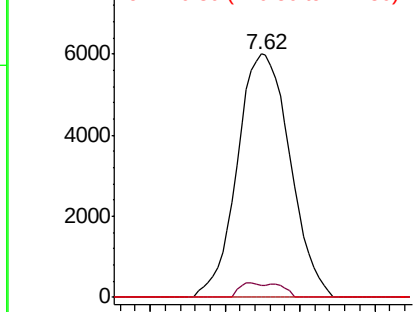
#38  
Carbon Tetrachloride  
Concen: 5.450 ug/l  
RT: 7.62 min Scan# 1830  
Delta R.T. -0.11 min  
Lab File: VN064856.D  
Acq: 25 Nov 2020 15:06

Instrument :  
MSVOA\_N  
ClientSampled :  
61-70

Tot Ion:117 Resp: 14714  
Ion Ratio Lower Upper  
117 100  
119 4.7 76.7 115.1#  
121 0.0 25.4 38.2#

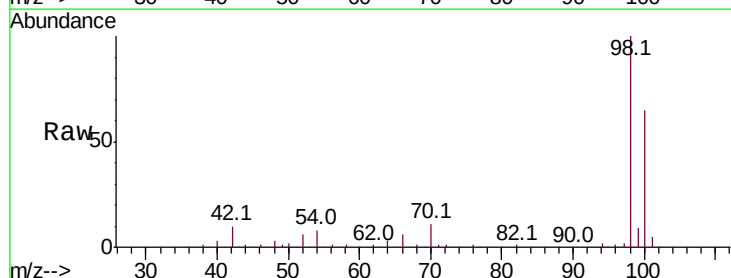


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

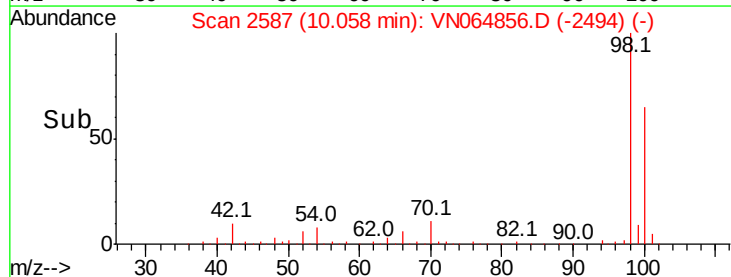
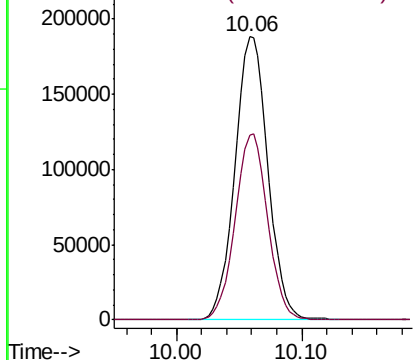


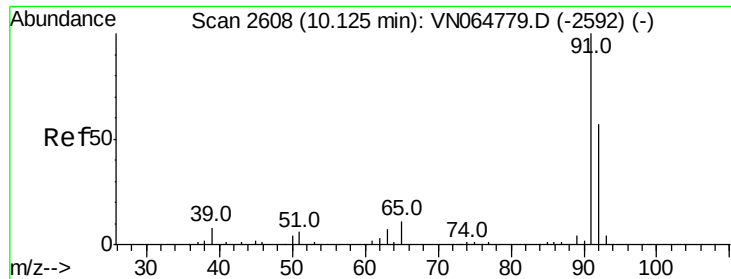
#50  
Toluene-d8  
Concen: 50.170 ug/l  
RT: 10.06 min Scan# 2587  
Delta R.T. 0.00 min  
Lab File: VN064856.D  
Acq: 25 Nov 2020 15:06

Tgt Ion: 98 Resp: 343354  
Ion Ratio Lower Upper  
98 100  
100 64.8 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN  
Ion 100.00 (99.70 to 100.70): VN





#52

Toluene

Concen: 0.310 ug/l

RT: 10.12 min Scan# 2606

Delta R.T. -0.01 min

Lab File: VN064856.D

Acq: 25 Nov 2020 15:06

Instrument :

MSVOA\_N

ClientSampleId :

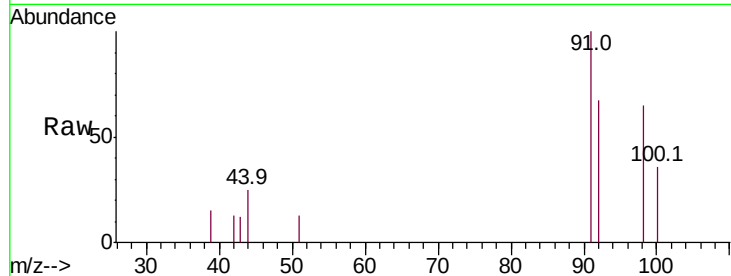
61-70

Tot Ion: 92 Resp: 1520

Ion Ratio Lower Upper

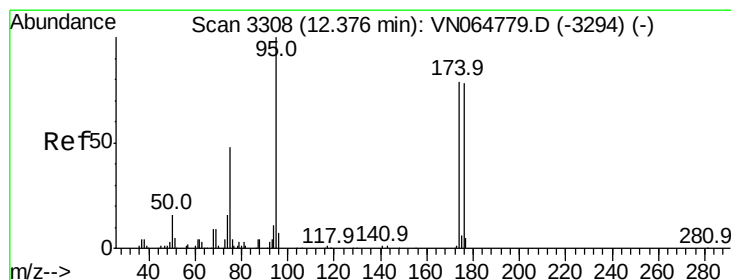
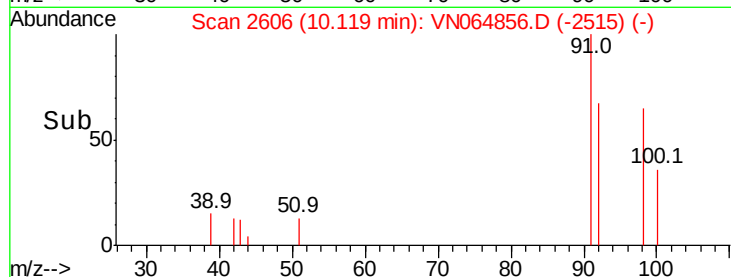
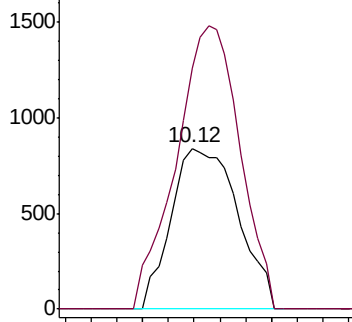
92 100

91 168.1 139.1 208.7



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0



#62

4-Bromofluorobenzene

Concen: 54.737 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064856.D

Acq: 25 Nov 2020 15:06

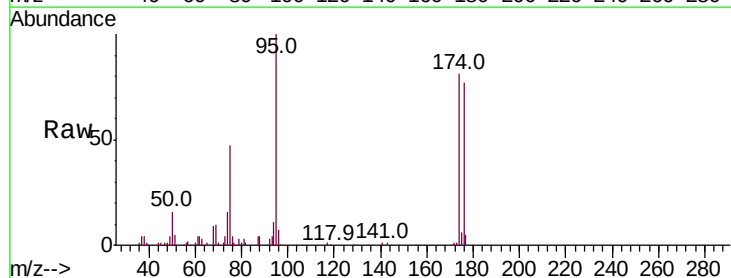
Tgt Ion: 95 Resp: 134065

Ion Ratio Lower Upper

95 100

174 81.1 0.0 160.4

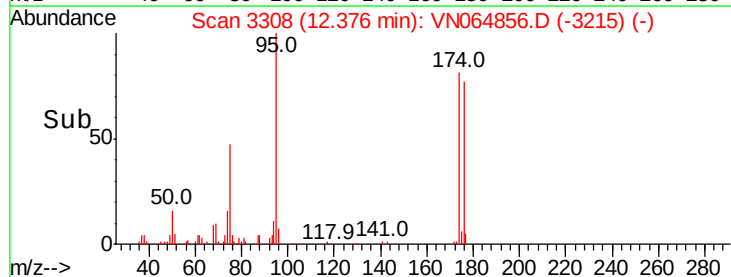
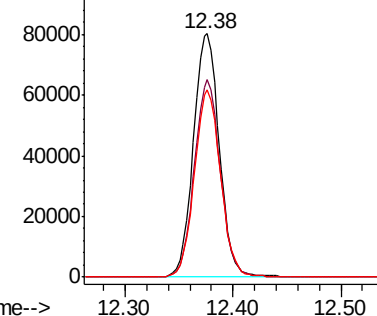
176 77.6 0.0 158.4

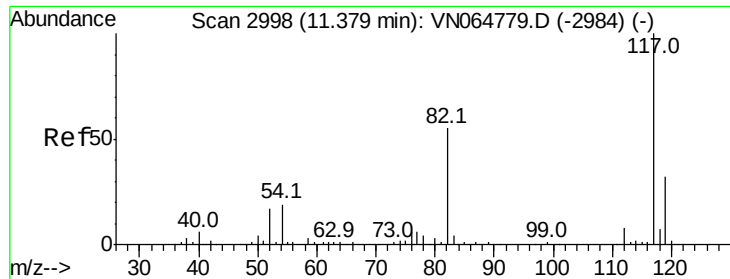


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

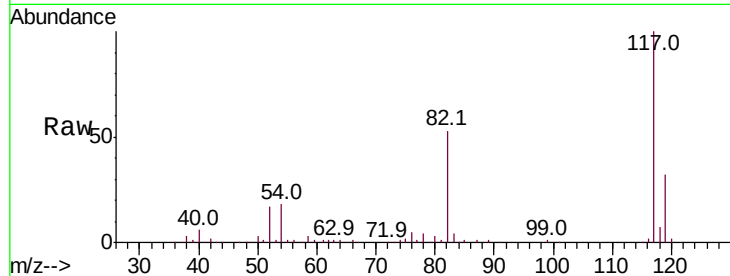




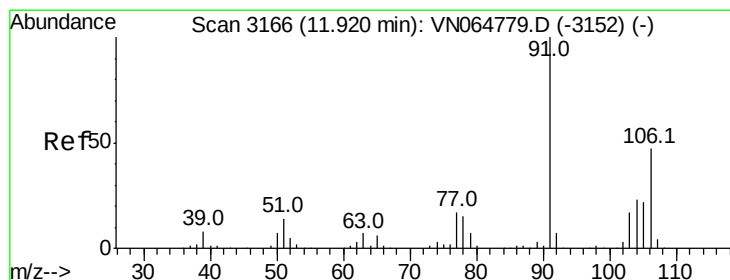
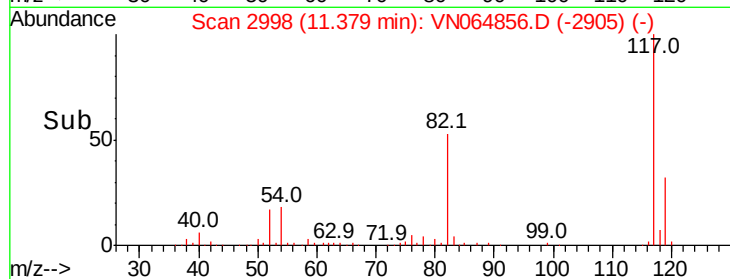
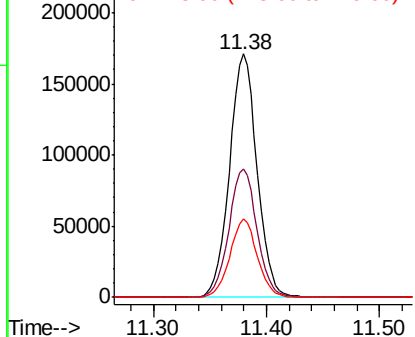
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.38 min Scan# 2998  
Delta R.T. 0.00 min  
Lab File: VN064856.D  
Acq: 25 Nov 2020 15:06

Instrument :  
MSVOA\_N  
ClientSampled :  
61-70

Tot Ion:117 Resp: 289323  
Ion Ratio Lower Upper  
117 100  
82 52.9 44.2 66.2  
119 32.0 25.8 38.6

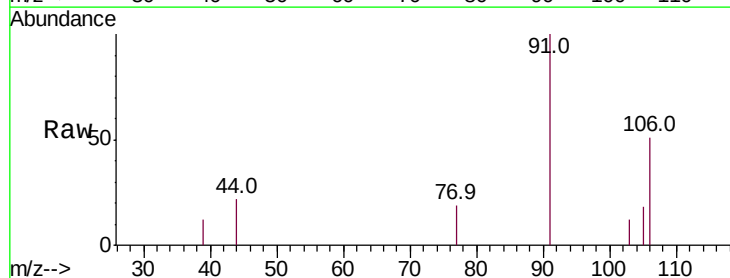


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VN  
Ion 118.90 (118.60 to 119.60): V

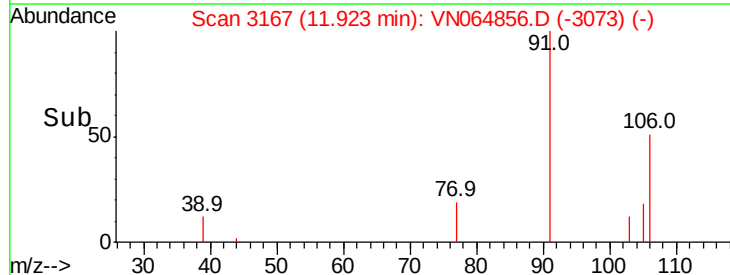
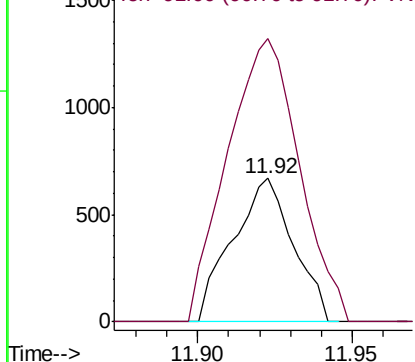


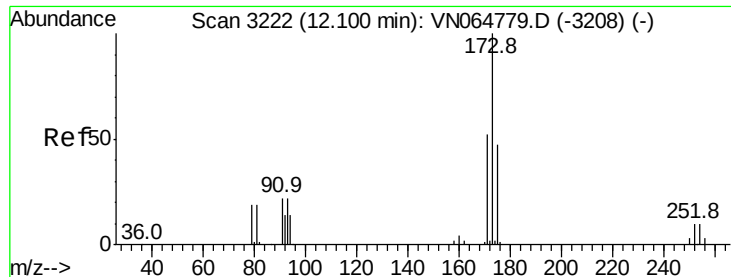
#69  
o-Xylene  
Concen: 0.246 ug/l  
RT: 11.92 min Scan# 3167  
Delta R.T. 0.00 min  
Lab File: VN064856.D  
Acq: 25 Nov 2020 15:06

Tgt Ion:106 Resp: 916  
Ion Ratio Lower Upper  
106 100  
91 233.5 105.5 316.5



Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VN





#71

Bromoform

Concen: 0.315 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.27 min

Lab File: VN064856.D

Acq: 25 Nov 2020 15:06

Instrument :

MSVOA\_N

ClientSampleId :

61-70

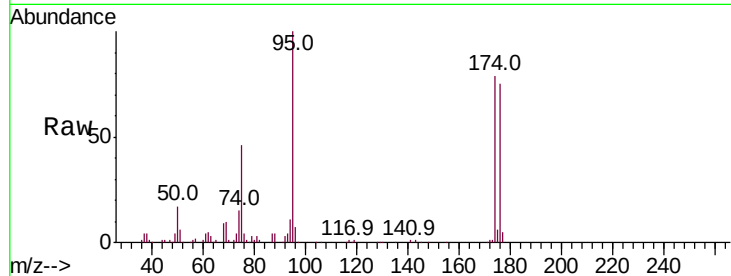
Tot Ion:173 Resp: 575

Ion Ratio Lower Upper

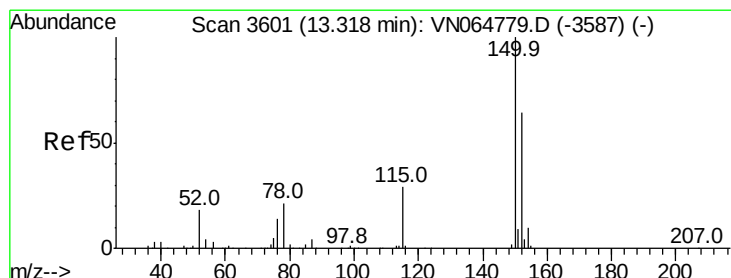
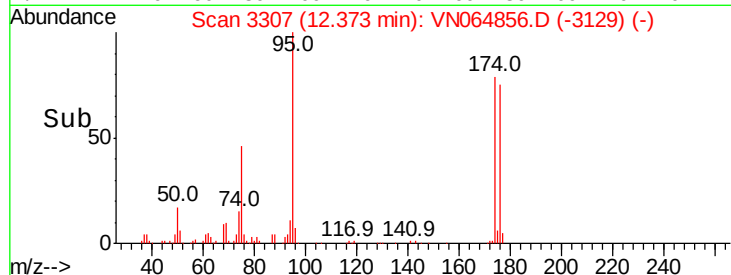
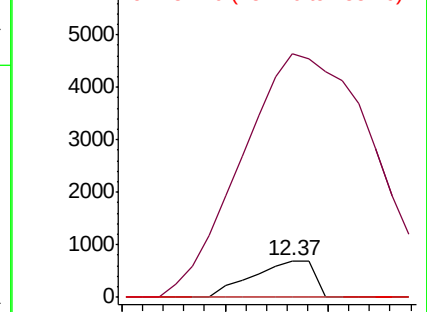
173 100

175 1193.7 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# 3601

Delta R.T. 0.00 min

Lab File: VN064856.D

Acq: 25 Nov 2020 15:06

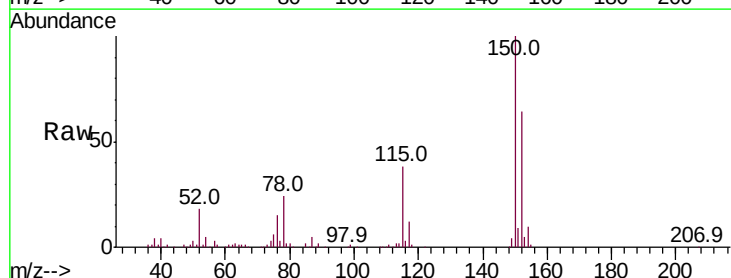
Tgt Ion:152 Resp: 131516

Ion Ratio Lower Upper

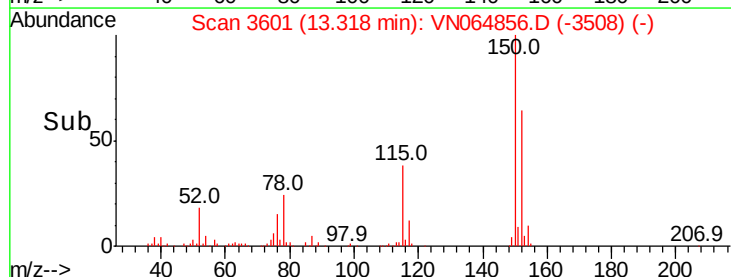
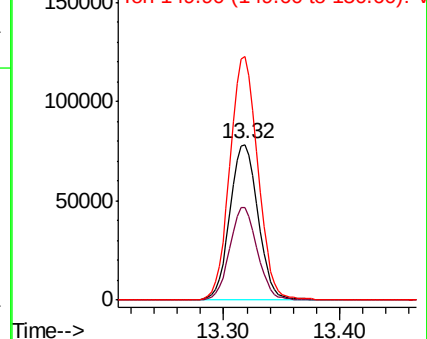
152 100

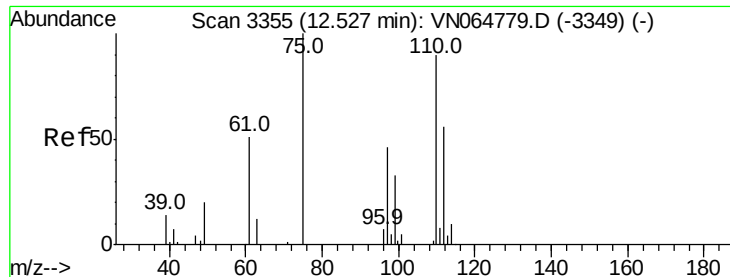
115 58.2 29.7 89.1

150 155.7 0.0 350.6



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: 22.061 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064856.D

Acq: 25 Nov 2020 15:06

Instrument :

MSVOA\_N

ClientSampleId :

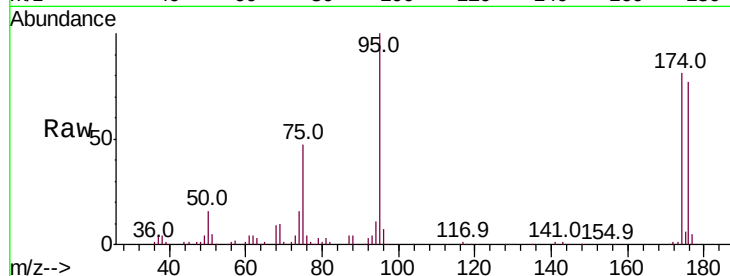
61-70

Tot Ion: 75 Resp: 62483

Ion Ratio Lower Upper

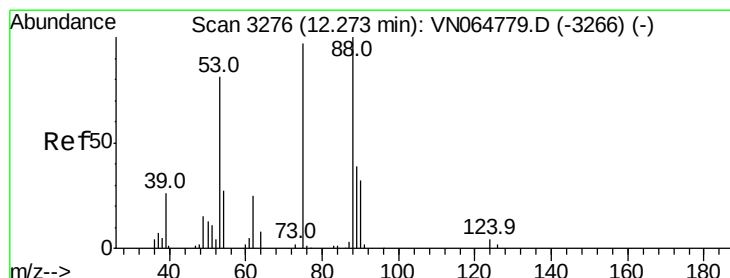
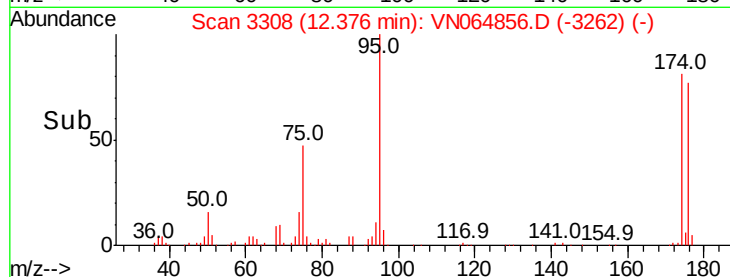
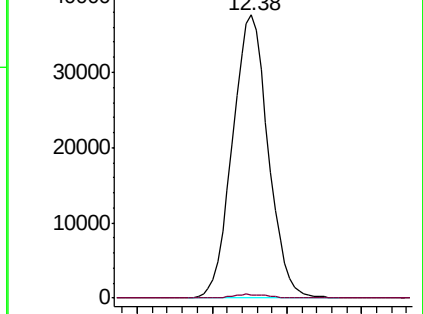
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN064856.D (-3308) (-)

Ion 77.00 (76.70 to 77.70): VN064856.D (-3308) (-)



#81

trans-1,4-Dichloro-2-butene

Concen: 60.463 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064856.D

Acq: 25 Nov 2020 15:06

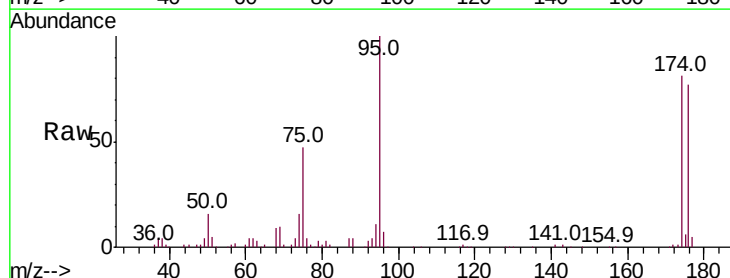
Tgt Ion: 75 Resp: 62483

Ion Ratio Lower Upper

75 100

53 0.0 67.0 100.4#

89 0.0 39.6 59.4#



Abundance Ion 74.90 (74.60 to 75.60): VN064856.D (-3308) (-)

Ion 53.00 (52.70 to 53.70): VN064856.D (-3308) (-)

Ion 88.90 (88.60 to 89.60): VN064856.D (-3308) (-)

