

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW120321\  
 Data File : VW021076.D  
 Acq On : 03 Dec 2021 20:04  
 Operator : SY/VA  
 Sample : M4886-07  
 Misc : 5.39g/10.0mL/MSVOA\_W/SOIL  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Dec 04 01:41:32 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM120321SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Sat Dec 04 01:31:24 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) 1,4-Difluorobenzene        | 8.841  | 114   | 65537    | 25.000    | ug/L   | # 0.00   |
| 28) Chlorobenzene-d5          | 11.627 | 117   | 56139    | 25.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 13.560 | 152   | 26413    | 25.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 4) Vinyl Chloride-d3          | 2.349  | 65    | 8758     | 9.591     | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery  | =      | 38.360%  |
| 7) Chloroethane-d5            | 2.885  | 69    | 8913     | 14.582    | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery  | =      | 58.320%  |
| 11) 1,1-Dichloroethene-d2     | 4.013  | 63    | 13070    | 8.960     | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 110 | Recovery  | =      | 35.840%# |
| 21) 2-Butanone-d5             | 7.079  | 46    | 12959    | 62.221    | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery  | =      | 124.440% |
| 24) Chloroform-d              | 7.653  | 84    | 39201    | 23.884    | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 40 - 150 | Recovery  | =      | 95.520%  |
| 26) 1,2-Dichloroethane-d4     | 8.311  | 65    | 24476    | 27.259    | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 130 | Recovery  | =      | 109.040% |
| 32) Benzene-d6                | 8.274  | 84    | 63034    | 21.960    | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 20 - 135 | Recovery  | =      | 87.840%  |
| 36) 1,2-Dichloropropane-d6    | 9.274  | 67    | 22161    | 27.782    | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 120 | Recovery  | =      | 111.120% |
| 41) Toluene-d8                | 10.323 | 98    | 54080    | 18.374    | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery  | =      | 73.480%  |
| 43) trans-1,3-Dichloroprop... | 10.573 | 79    | 6192     | 17.095    | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 135 | Recovery  | =      | 68.400%  |
| 47) 2-Hexanone-d5             | 10.920 | 63    | 9811     | 64.284    | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery  | =      | 128.560% |
| 56) 1,1,2,2-Tetrachloroeth... | 12.694 | 84    | 18308    | 24.808    | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 120 | Recovery  | =      | 99.240%  |
| 66) 1,2-Dichlorobenzene-d4    | 13.853 | 152   | 20611    | 21.779    | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 75 - 120 | Recovery  | =      | 87.120%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 13) Acetone                   | 4.129  | 43    | 6468     | 34.093    | ug/L   | 94       |
| 22) 2-Butanone                | 7.183  | 43    | 1312     | 4.997     | ug/L # | 58       |
| 33) Benzene                   | 8.323  | 78    | 360874   | 113.040   | ug/L   | 100      |
| 35) Methylcyclohexane         | 9.335  | 83    | 1504     | 1.015     | ug/L   | 91       |
| 37) 1,2-Dichloropropane       | 9.274  | 63    | 2855     | 3.957     | ug/L # | 88       |
| 39) cis-1,3-Dichloropropene   | 10.036 | 75    | 550      | 0.471     | ug/L   | 94       |
| 42) Toluene                   | 10.390 | 91    | 647805   | 177.659   | ug/L   | 100      |
| 48) 2-Hexanone                | 10.926 | 43    | 1606     | 4.529     | ug/L # | 67       |
| 52) Ethylbenzene              | 11.731 | 91    | 190885   | 46.501    | ug/L   | 97       |
| 53) m,p-Xylene                | 11.841 | 106   | 1506999  | 887.432   | ug/L   | 80       |
| 54) o-Xylene                  | 12.164 | 106   | 679036   | 424.115   | ug/L   | 93       |
| 55) Styrene                   | 12.170 | 104   | 76551    | 28.063    | ug/L # | 1        |
| 60) Isopropylbenzene          | 12.463 | 105   | 11849    | 3.228     | ug/L   | 96       |
| 62) 1,3,5-Trimethylbenzene    | 12.944 | 105   | 634315   | 206.344   | ug/L   | 95       |
| 63) 1,2,4-Trimethylbenzene    | 13.249 | 105   | 1846200  | 597.138   | ug/L   | 93       |
| 68) 1,2-Dibromo-3-chloropr... | 14.481 | 75    | 56045    | 560.945   | ug/L # | 10       |
| 71) Naphthalene               | 15.377 | 128   | 22509395 | 11600.097 | ug/L # | 93       |
| -----                         |        |       |          |           |        |          |

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Sample : M4886-07  
Misc : 5.39g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :

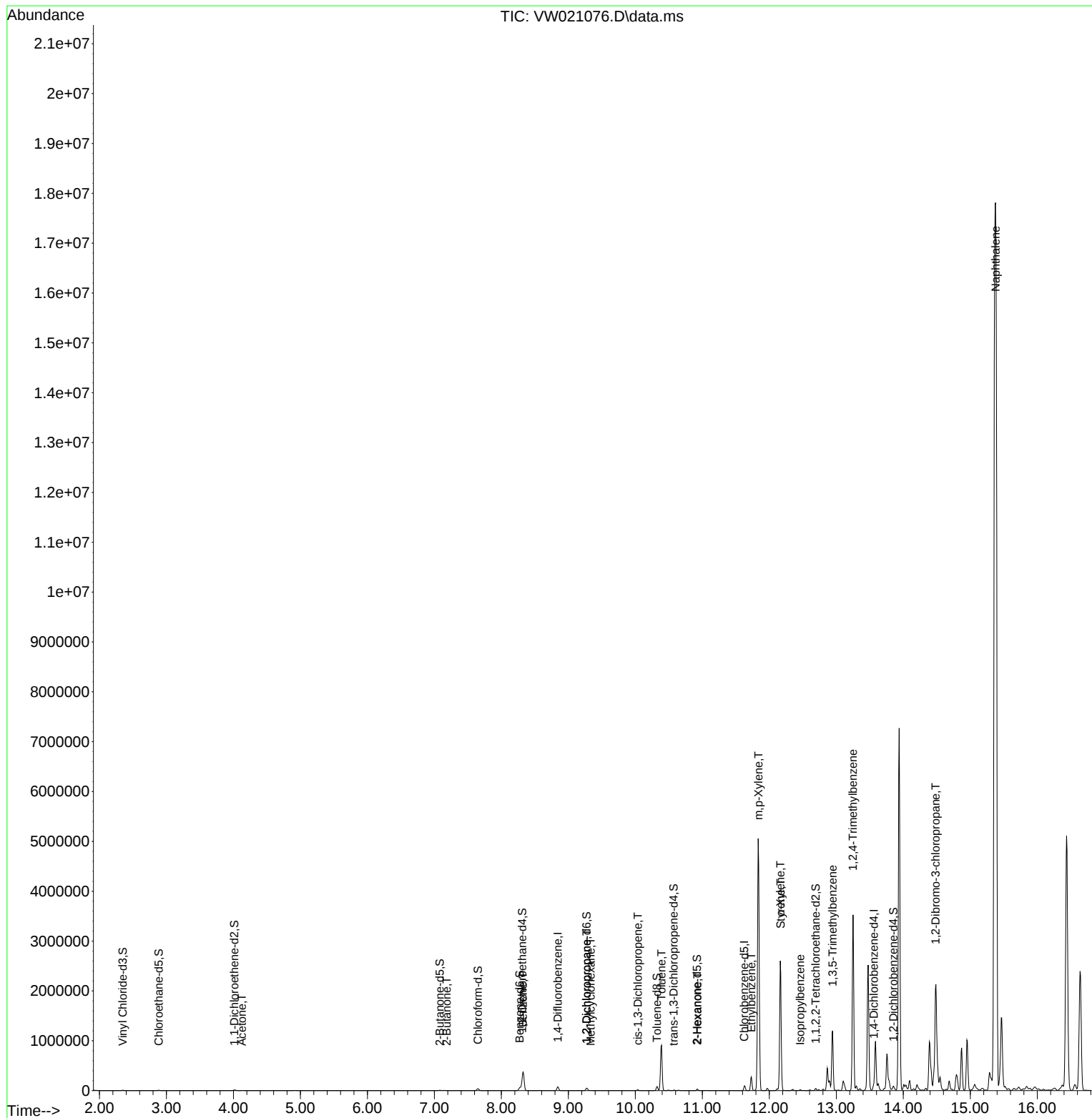
Quant Time: Dec 04 01:41:32 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM120321SMA.M  
Quant Title : SFAM01.0  
QLast Update : Sat Dec 04 01:31:24 2021  
Response via : Initial Calibration

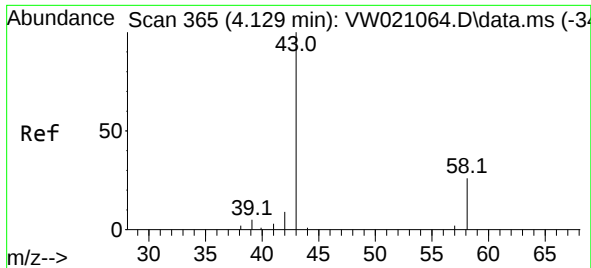
| Compound                                                             | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                |      |      |          |      |       |          |
| (#)=qualifier out of range (m)=manual integration (+)=signals summed |      |      |          |      |       |          |

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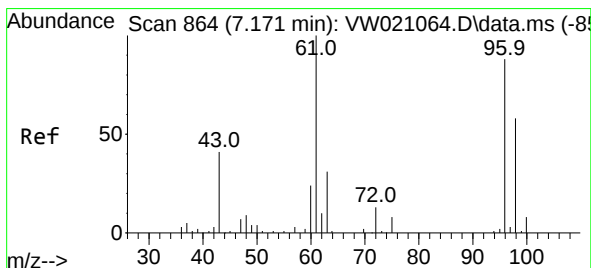
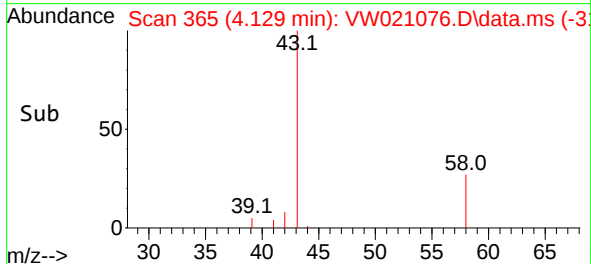
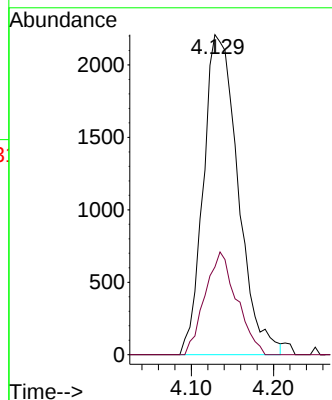
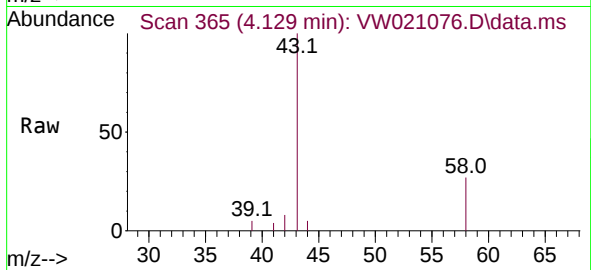




#13  
Acetone  
Concen: 34.093 ug/L  
RT: 4.129 min Scan# 30  
Delta R.T. -0.000 min  
Lab File: VW021076.D  
Acq: 03 Dec 2021 20:04

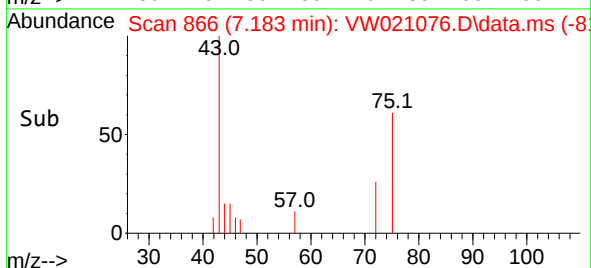
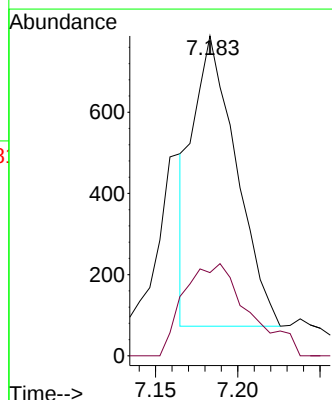
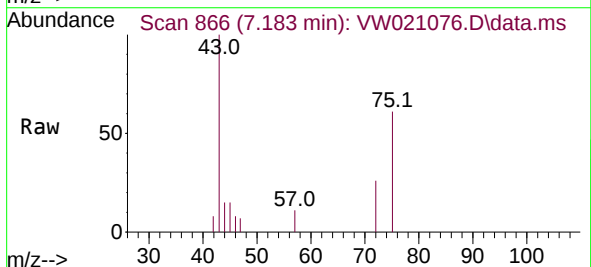
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MSVOA\_W  
ClientSampleId :

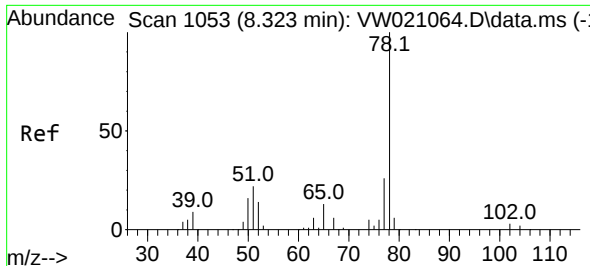
Tgt Ion: 43 Resp: 6468  
Ion Ratio Lower Upper  
43 100  
58 29.5 0.0 52.8



#22  
2-Butanone  
Concen: 4.997 ug/L  
RT: 7.183 min Scan# 866  
Delta R.T. 0.012 min  
Lab File: VW021076.D  
Acq: 03 Dec 2021 20:04

Tgt Ion: 43 Resp: 1312  
Ion Ratio Lower Upper  
43 100  
72 44.3 11.8 35.4#

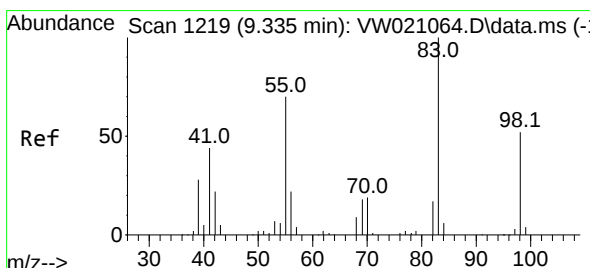
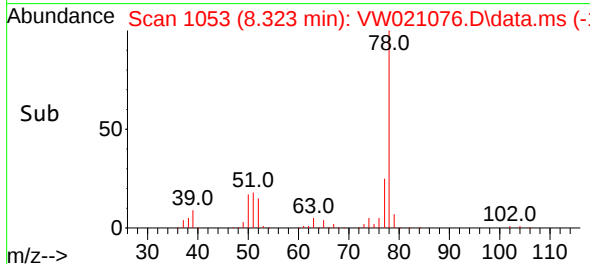
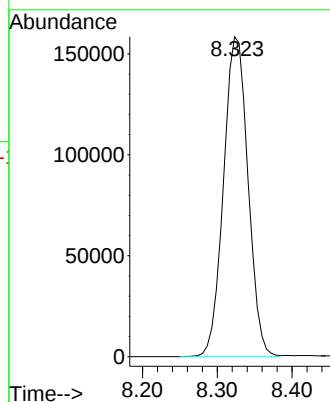
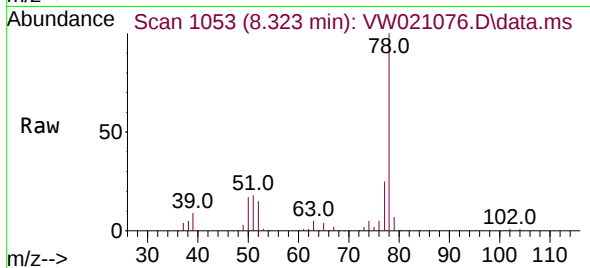




#33  
Benzene  
Concen: 113.040 ug/L  
RT: 8.323 min Scan# 1053  
Delta R.T. -0.000 min  
Lab File: VW021076.D  
Acq: 03 Dec 2021 20:04

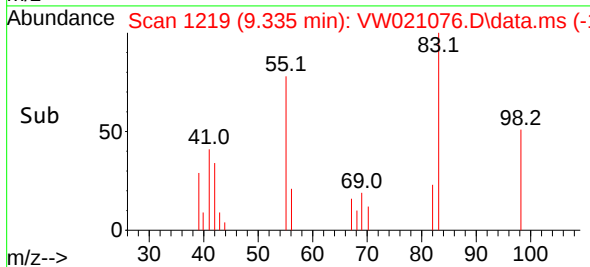
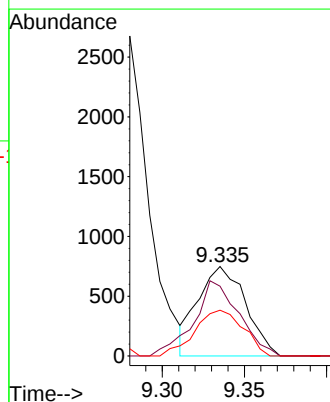
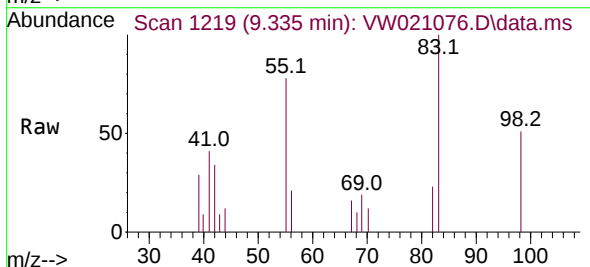
Instrument :  
MSVOA\_W  
ClientSampleId :

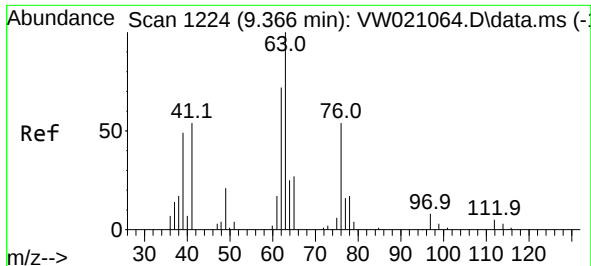
Tgt Ion: 78 Resp: 360874



#35  
Methylcyclohexane  
Concen: 1.015 ug/L  
RT: 9.335 min Scan# 1219  
Delta R.T. -0.000 min  
Lab File: VW021076.D  
Acq: 03 Dec 2021 20:04

Tgt Ion: 83 Resp: 1504  
Ion Ratio Lower Upper  
83 100  
55 79.5 70.8 106.2  
98 52.3 37.7 56.5





#37

1,2-Dichloropropane

Concen: 3.957 ug/L

RT: 9.274 min Scan# 11

Delta R.T. -0.092 min

Lab File: VW021076.D

Acq: 03 Dec 2021 20:04

Instrument :

MSVOA\_W

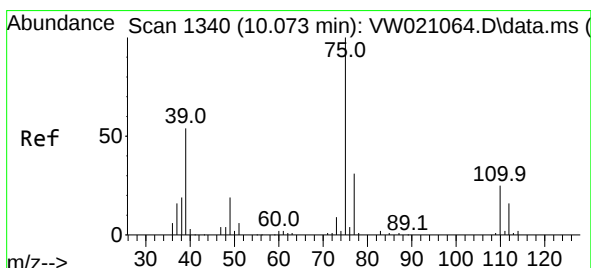
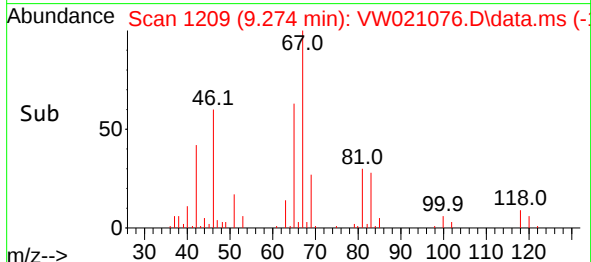
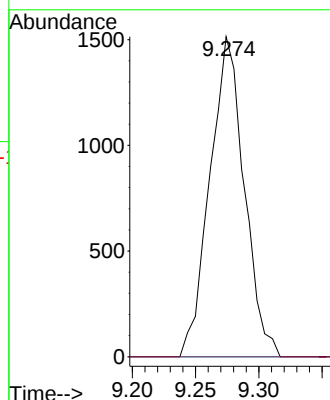
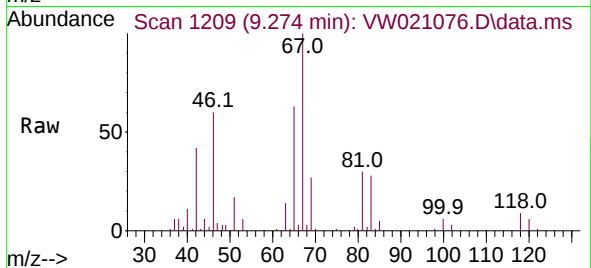
ClientSampleId :

Tgt Ion: 63 Resp: 2855

Ion Ratio Lower Upper

63 100

112 0.0 3.2 4.8#



#39

cis-1,3-Dichloropropene

Concen: 0.471 ug/L

RT: 10.036 min Scan# 1334

Delta R.T. -0.037 min

Lab File: VW021076.D

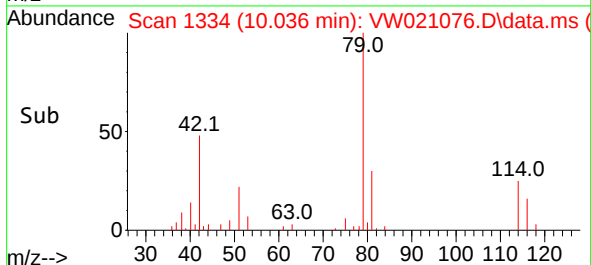
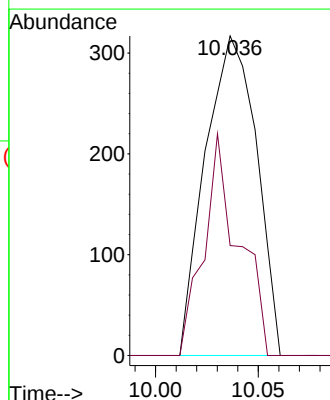
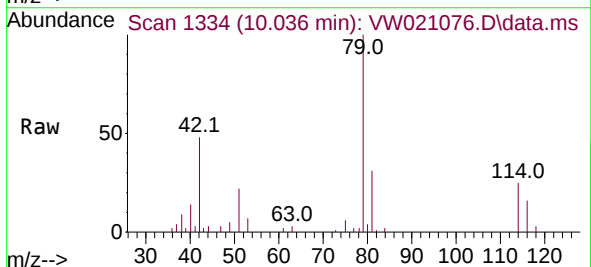
Acq: 03 Dec 2021 20:04

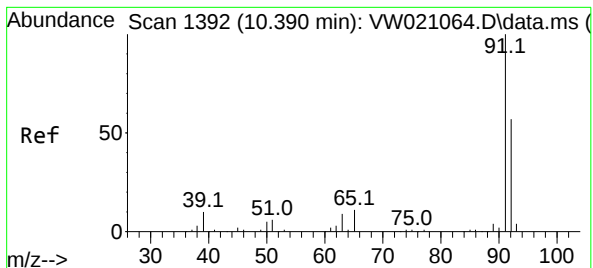
Tgt Ion: 75 Resp: 550

Ion Ratio Lower Upper

75 100

77 34.4 21.8 40.6





#42

Toluene

Concen: 177.659 ug/L

RT: 10.390 min Scan# 11

Delta R.T. -0.000 min

Lab File: VW021076.D

Acq: 03 Dec 2021 20:04

Instrument :

MSVOA\_W

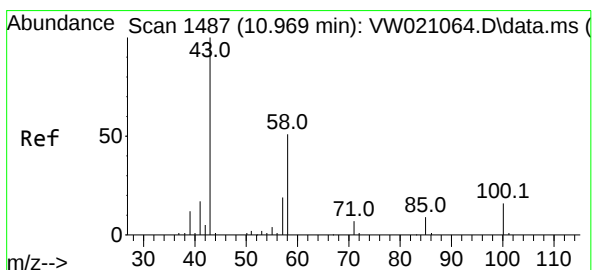
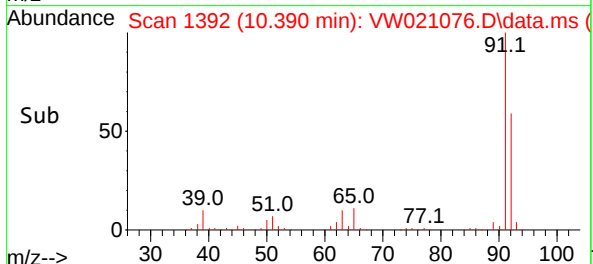
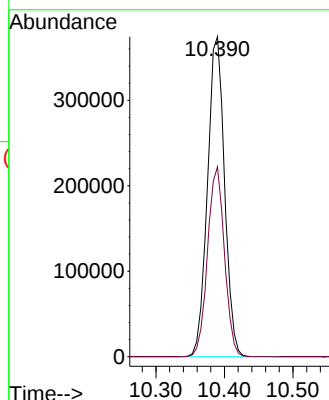
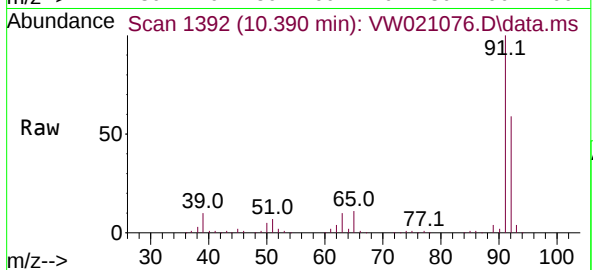
ClientSampleId :

Tgt Ion: 91 Resp: 647805

Ion Ratio Lower Upper

91 100

92 59.3 41.7 77.5



#48

2-Hexanone

Concen: 4.529 ug/L

RT: 10.926 min Scan# 1480

Delta R.T. -0.043 min

Lab File: VW021076.D

Acq: 03 Dec 2021 20:04

Tgt Ion: 43 Resp: 1606

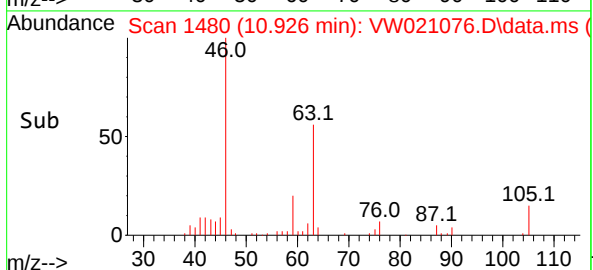
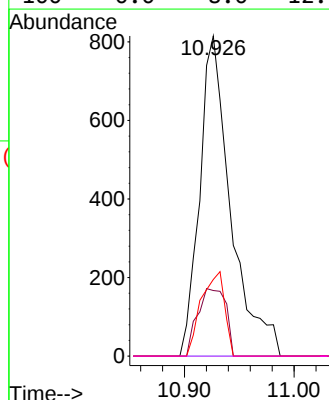
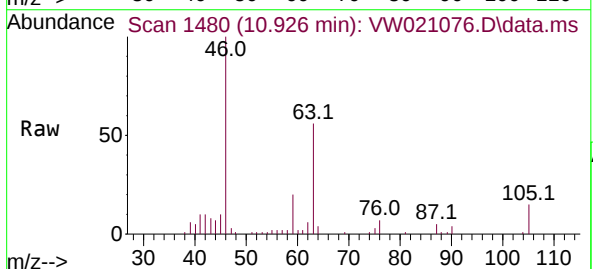
Ion Ratio Lower Upper

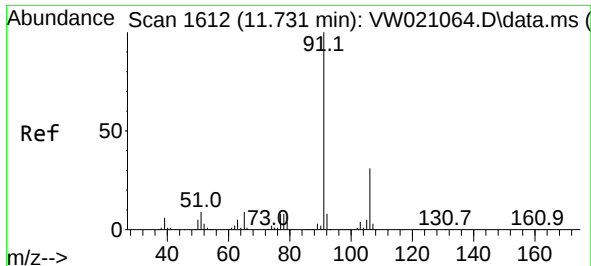
43 100

58 19.1 40.2 60.2#

57 19.8 14.3 21.5

100 0.0 8.0 12.0#

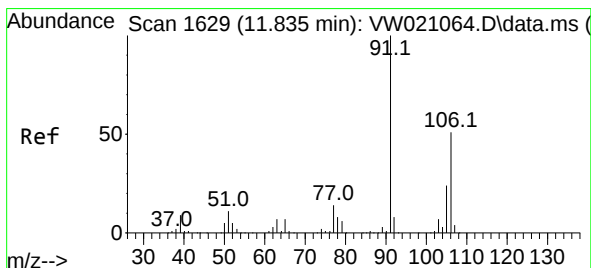
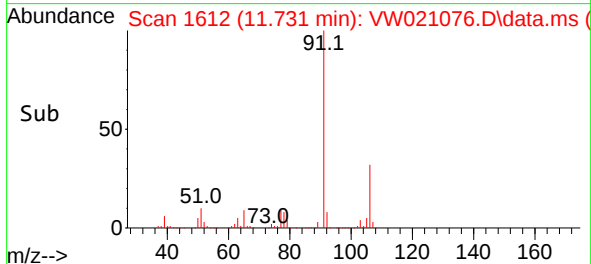
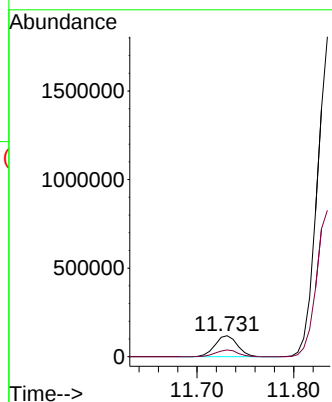
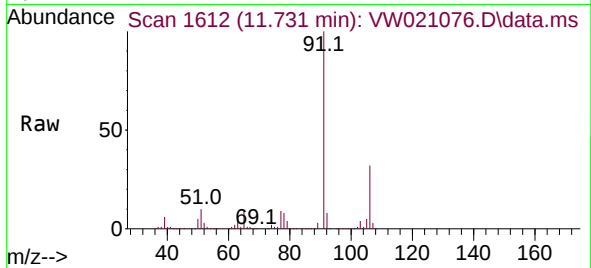




#52  
Ethylbenzene  
Concen: 46.501 ug/L  
RT: 11.731 min Scan# 1612  
Delta R.T. -0.000 min  
Lab File: VW021076.D  
Acq: 03 Dec 2021 20:04

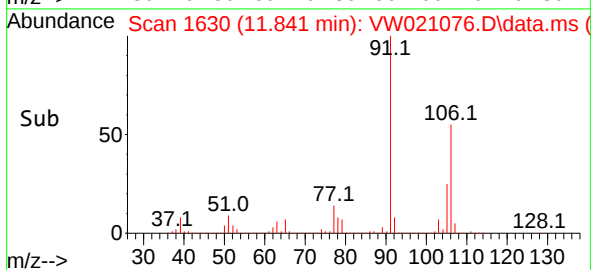
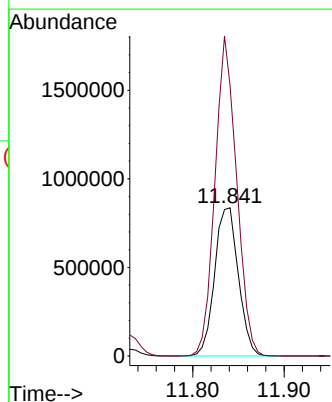
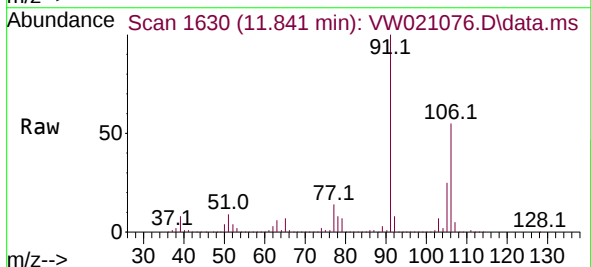
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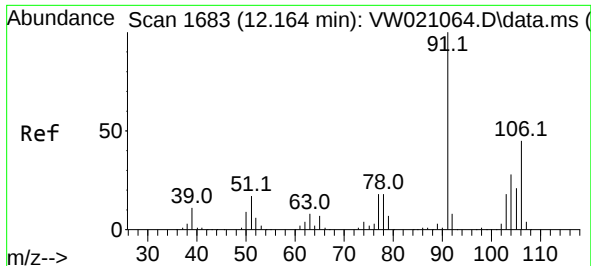
Tgt Ion: 91 Resp: 190885  
Ion Ratio Lower Upper  
91 100  
106 32.1 21.5 39.9



#53  
m,p-Xylene  
Concen: 887.432 ug/L  
RT: 11.841 min Scan# 1630  
Delta R.T. 0.006 min  
Lab File: VW021076.D  
Acq: 03 Dec 2021 20:04

Tgt Ion:106 Resp: 1506999  
Ion Ratio Lower Upper  
106 100  
91 182.0 149.9 278.3

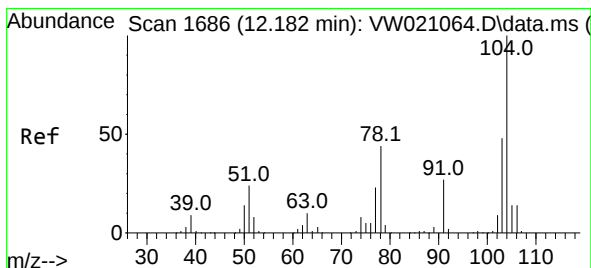
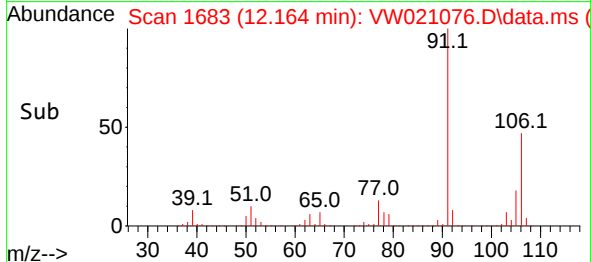
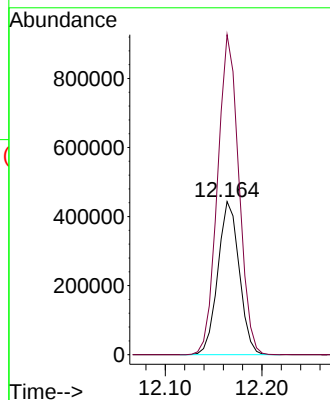
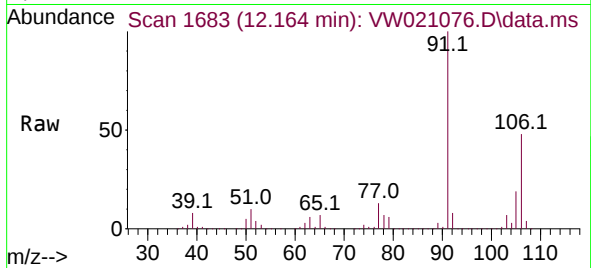




#54  
o-Xylene  
Concen: 424.115 ug/L  
RT: 12.164 min Scan# 1683  
Delta R.T. -0.000 min  
Lab File: VW021076.D  
Acq: 03 Dec 2021 20:04

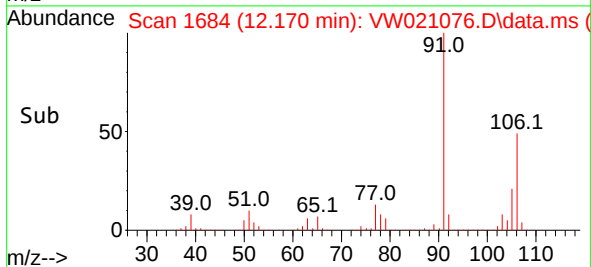
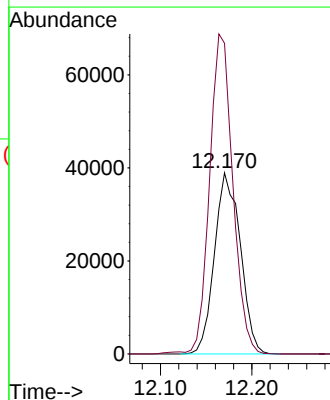
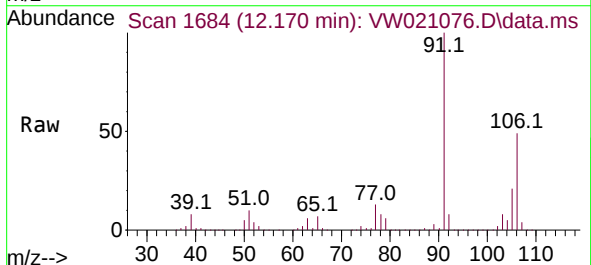
Instrument :  
MSVOA\_W  
ClientSampleId :

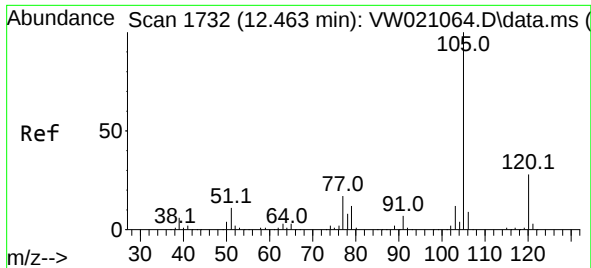
Tgt Ion:106 Resp: 679036  
Ion Ratio Lower Upper  
106 100  
91 208.9 153.6 285.3



#55  
Styrene  
Concen: 28.063 ug/L  
RT: 12.170 min Scan# 1684  
Delta R.T. -0.012 min  
Lab File: VW021076.D  
Acq: 03 Dec 2021 20:04

Tgt Ion:104 Resp: 76551  
Ion Ratio Lower Upper  
104 100  
78 171.6 34.4 64.0#

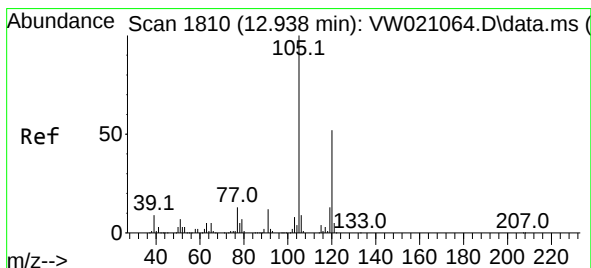
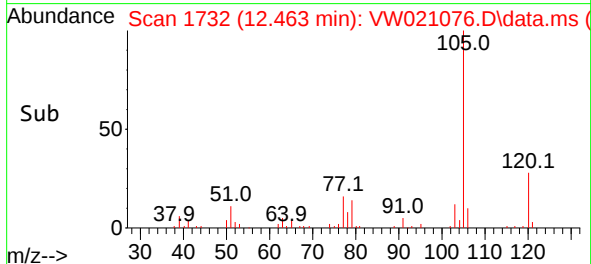
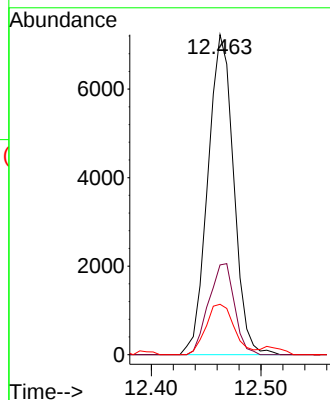
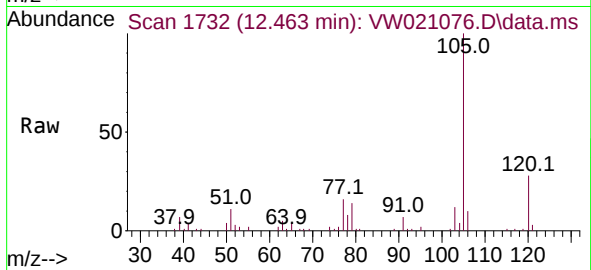




#60  
Isopropylbenzene  
Concen: 3.228 ug/L  
RT: 12.463 min Scan# 11849  
Delta R.T. -0.000 min  
Lab File: VW021076.D  
Acq: 03 Dec 2021 20:04

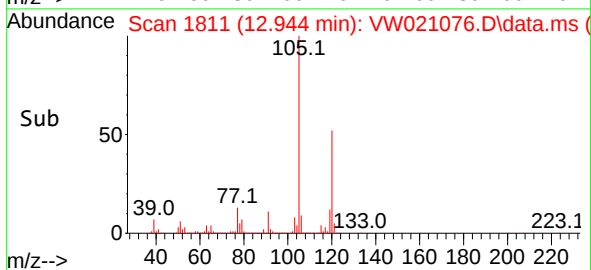
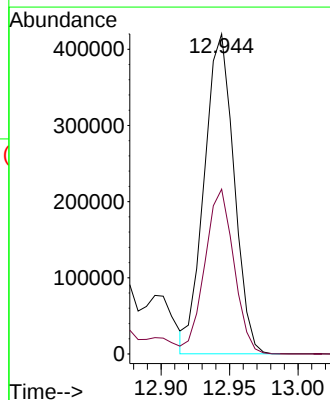
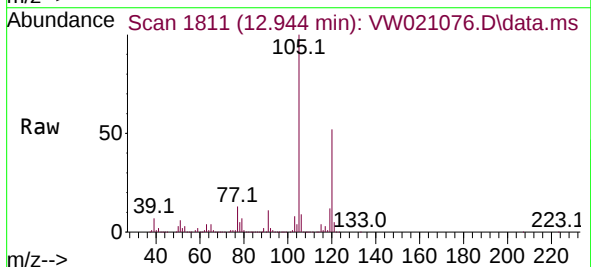
Instrument :  
MSVOA\_W  
ClientSampleId :

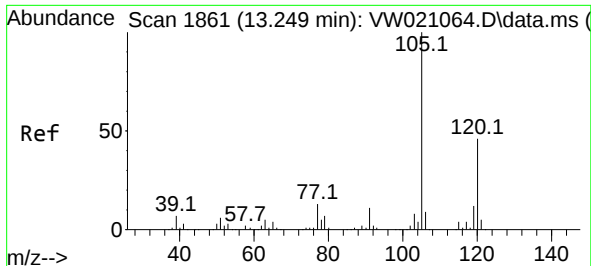
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 28.4  | 20.1  | 30.1  |
| 77      | 17.3  | 13.8  | 20.8  |



#62  
1,3,5-Trimethylbenzene  
Concen: 206.344 ug/L  
RT: 12.944 min Scan# 1811  
Delta R.T. 0.006 min  
Lab File: VW021076.D  
Acq: 03 Dec 2021 20:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 50.4  | 37.4  | 56.2  |

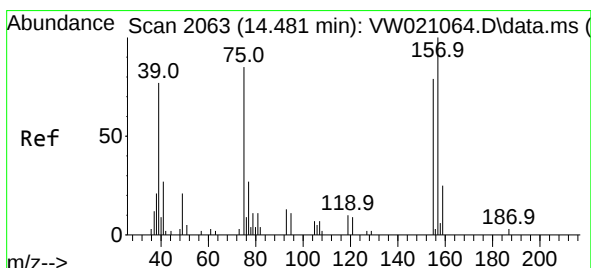
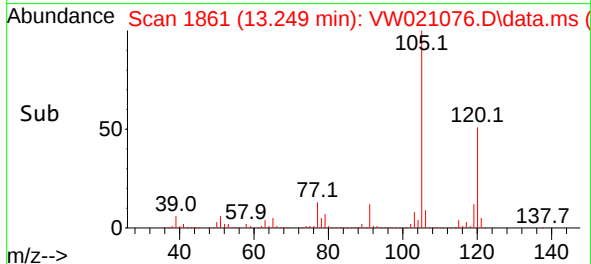
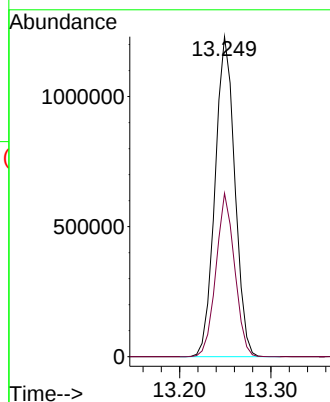
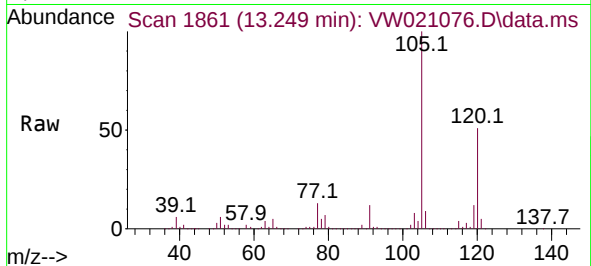




#63  
1,2,4-Trimethylbenzene  
Concen: 597.138 ug/L  
RT: 13.249 min Scan# 1861  
Delta R.T. -0.000 min  
Lab File: VW021076.D  
Acq: 03 Dec 2021 20:04

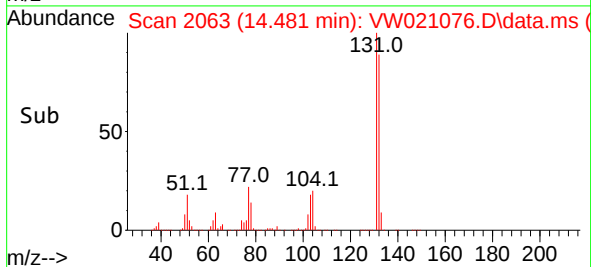
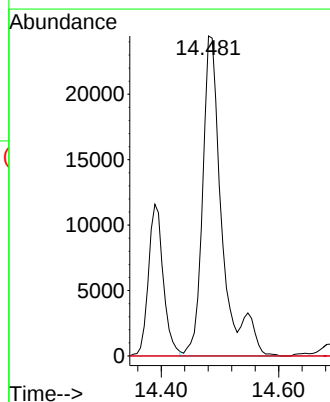
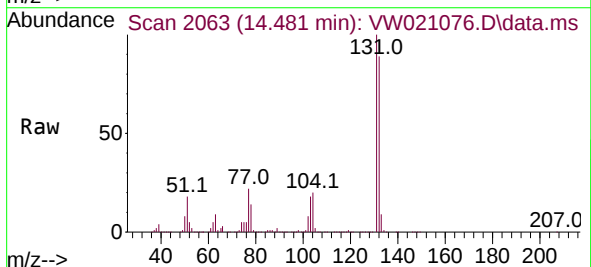
Instrument :  
MSVOA\_W  
ClientSampleId :

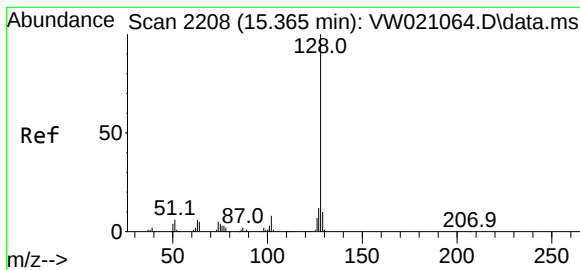
Tgt Ion:105 Resp: 1846200  
Ion Ratio Lower Upper  
105 100  
120 48.2 35.0 52.6



#68  
1,2-Dibromo-3-chloropropane  
Concen: 560.945 ug/L  
RT: 14.481 min Scan# 2063  
Delta R.T. -0.000 min  
Lab File: VW021076.D  
Acq: 03 Dec 2021 20:04

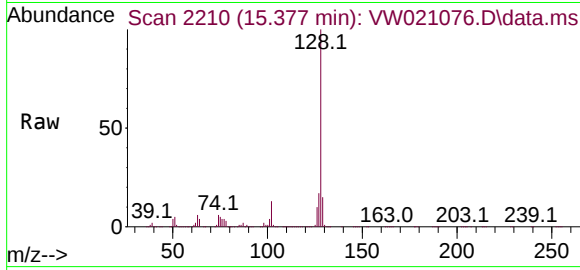
Tgt Ion: 75 Resp: 56045  
Ion Ratio Lower Upper  
75 100  
155 0.0 54.2 81.2#  
157 0.0 69.4 104.2#





#71  
Naphthalene  
Concen: 11600.097 ug/L  
RT: 15.377 min Scan# 21  
Delta R.T. 0.012 min  
Lab File: VW021076.D  
Acq: 03 Dec 2021 20:04

Instrument :  
MSVOA\_W  
ClientSampleId :



Tgt Ion:128 Resp:22509395

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 127 | 15.8  | 10.7  | 16.1  |
| 129 | 14.0  | 8.6   | 12.8# |

