

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV070621\  
 Data File : VV021611.D  
 Acq On : 06 Jul 2021 13:30  
 Operator : SY/MD  
 Sample : M2914-02  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 DBK23

Quant Time: Jul 07 01:04:23 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM062921WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Jul 07 01:00:10 2021  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) 1,4-Difluorobenzene     | 5.613  | 114  | 506585   | 50.000 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.850  | 117  | 471111   | 50.000 | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4 | 11.252 | 152  | 250827   | 50.000 | ug/L  | 0.00     |

|                               |         |       |          |          |      |          |
|-------------------------------|---------|-------|----------|----------|------|----------|
| System Monitoring Compounds   |         |       |          |          |      |          |
| 4) Vinyl Chloride-d3          | 1.304   | 65    | 115908   | 36.163   | ug/L | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =    | 72.320%  |
| 7) Chloroethane-d5            | 1.558   | 69    | 102663   | 39.190   | ug/L | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =    | 78.380%  |
| 11) 1,1-Dichloroethene-d2     | 2.105   | 63    | 181390   | 30.932   | ug/L | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =    | 61.860%  |
| 21) 2-Butanone-d5             | 3.867   | 46    | 268913   | 98.238   | ug/L | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =    | 98.240%  |
| 24) Chloroform-d              | 4.346   | 84    | 294488   | 43.926   | ug/L | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =    | 87.860%  |
| 26) 1,2-Dichloroethane-d4     | 5.031   | 65    | 186047   | 47.096   | ug/L | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =    | 94.200%  |
| 32) Benzene-d6                | 5.047   | 84    | 598993   | 45.283   | ug/L | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =    | 90.560%  |
| 36) 1,2-Dichloropropane-d6    | 6.066   | 67    | 197321   | 47.296   | ug/L | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =    | 94.600%  |
| 41) Toluene-d8                | 7.317   | 98    | 562742   | 46.001   | ug/L | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =    | 92.000%  |
| 43) trans-1,3-Dichloroprop... | 7.619   | 79    | 95030    | 45.790   | ug/L | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =    | 91.580%  |
| 47) 2-Hexanone-d5             | 8.085   | 63    | 214220   | 110.694  | ug/L | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =    | 110.690% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.217  | 84    | 289402   | 51.485   | ug/L | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =    | 102.980% |
| 66) 1,2-Dichlorobenzene-d4    | 11.625  | 152   | 237735   | 47.541   | ug/L | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =    | 95.080%  |

|                              |       |     |         |          |        |     |
|------------------------------|-------|-----|---------|----------|--------|-----|
| Target Compounds             |       |     |         | Qvalue   |        |     |
| 5) Vinyl chloride            | 1.307 | 62  | 24948   | 5.974    | ug/L # | 80  |
| 12) 1,1-Dichloroethene       | 2.114 | 96  | 10786   | 3.728    | ug/L # | 1   |
| 13) Acetone                  | 2.153 | 43  | 2506939 | 1107.785 | ug/L # | 100 |
| 16) Methylene chloride       | 2.503 | 84  | 38039   | 9.686    | ug/L   | 97  |
| 17) trans-1,2-Dichloroethene | 2.761 | 96  | 8974    | 2.543    | ug/L   | 93  |
| 19) 1,1-Dichloroethane       | 3.185 | 63  | 161043  | 25.048   | ug/L   | 99  |
| 20) cis-1,2-Dichloroethene   | 3.908 | 96  | 147504  | 37.582   | ug/L   | 95  |
| 22) 2-Butanone               | 3.957 | 43  | 91359   | 29.232   | ug/L   | 96  |
| 27) 1,2-Dichloroethane       | 5.130 | 62  | 11119   | 2.332    | ug/L # | 94  |
| 29) Cyclohexane              | 4.674 | 56  | 9957    | 1.674    | ug/L   | 98  |
| 30) 1,1,1-Trichloroethane    | 4.609 | 97  | 49215   | 8.309    | ug/L   | 99  |
| 33) Benzene                  | 5.098 | 78  | 519714  | 36.249   | ug/L   | 100 |
| 34) Trichloroethene          | 5.912 | 95  | 100529  | 25.939   | ug/L   | 94  |
| 35) Methylcyclohexane        | 6.130 | 83  | 8787    | 1.428    | ug/L   | 96  |
| 37) 1,2-Dichloropropane      | 6.172 | 63  | 29625   | 7.950    | ug/L # | 97  |
| 40) 4-Methyl-2-pentanone     | 7.223 | 43  | 2034671 | 371.937  | ug/L   | 99  |
| 42) Toluene                  | 7.387 | 91  | 2241956 | 145.991  | ug/L   | 100 |
| 46) Tetrachloroethene        | 7.976 | 164 | 22351   | 7.251    | ug/L   | 98  |
| 48) 2-Hexanone               | 8.137 | 43  | 169301  | 39.154   | ug/L   | 96  |

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 Sample : M2914-02  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 DBK23

Quant Time: Jul 07 01:04:23 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM062921WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Jul 07 01:00:10 2021  
 Response via : Initial Calibration

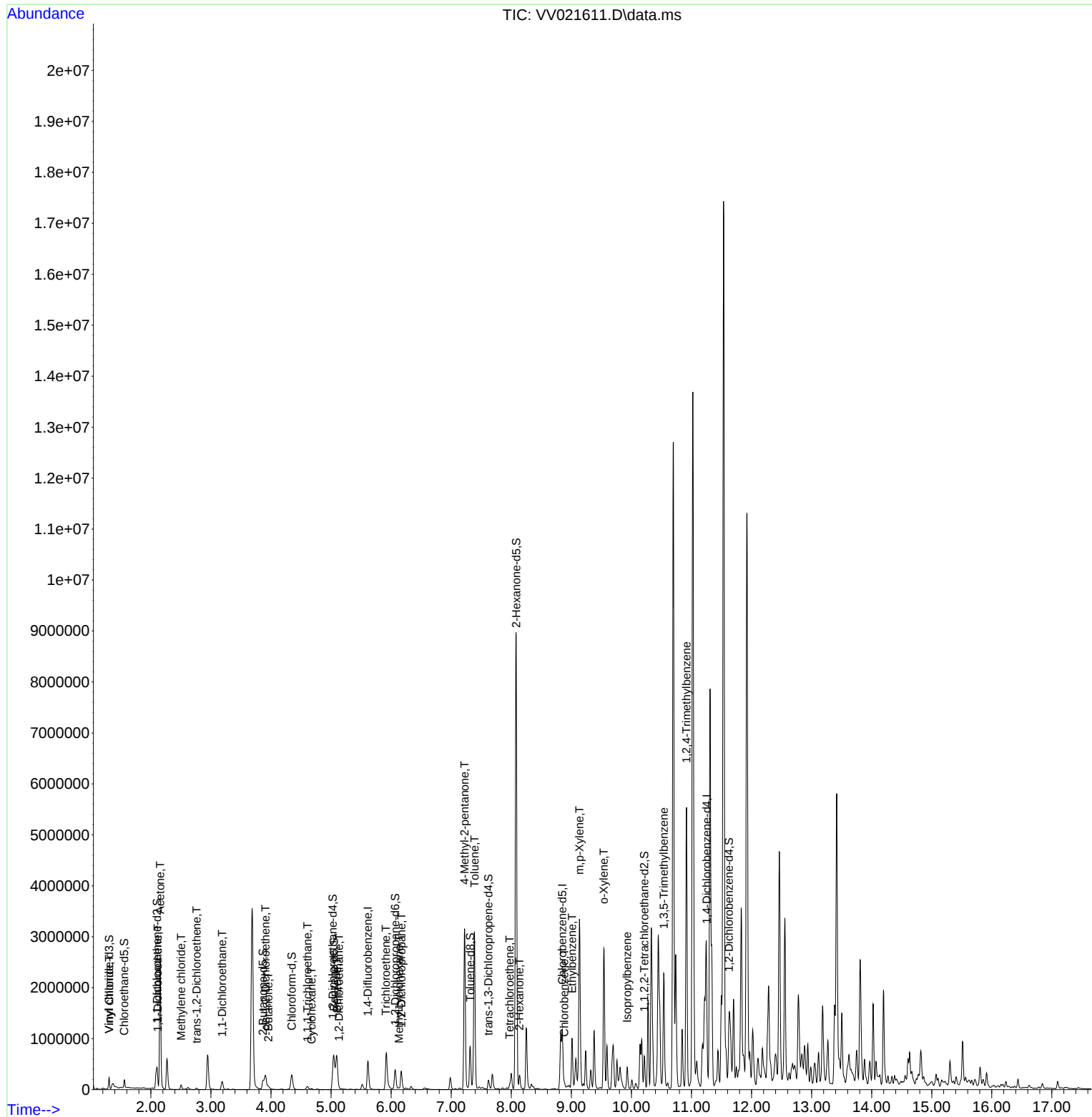
| Compound                   | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|----------------------------|--------|------|----------|---------|-------|----------|
| -----                      |        |      |          |         |       |          |
| 51) Chlorobenzene          | 8.883  | 112  | 44871    | 4.490   | ug/L  | 95       |
| 52) Ethylbenzene           | 9.011  | 91   | 704917   | 42.252  | ug/L  | 99       |
| 53) m,p-Xylene             | 9.136  | 106  | 860644   | 134.422 | ug/L  | 99       |
| 54) o-Xylene               | 9.542  | 106  | 724298   | 113.392 | ug/L  | 98       |
| 60) Isopropylbenzene       | 9.931  | 105  | 250936   | 14.668  | ug/L  | 100      |
| 62) 1,3,5-Trimethylbenzene | 10.538 | 105  | 1185872  | 81.332  | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene | 10.918 | 105  | 2936648  | 199.020 | ug/L  | 100      |
| -----                      |        |      |          |         |       |          |

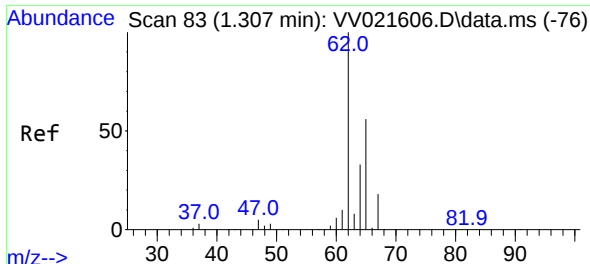
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM062921WMA.M  
Quant Title : VOC Analysis  
QLast Update : Wed Jul 07 01:00:10 2021  
Response via : Initial Calibration

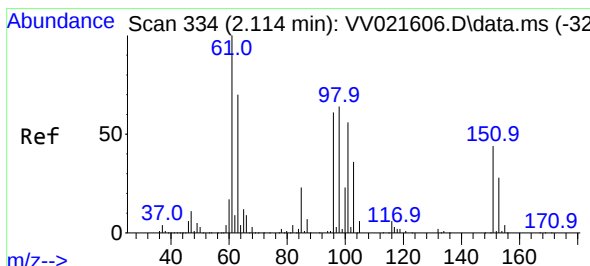
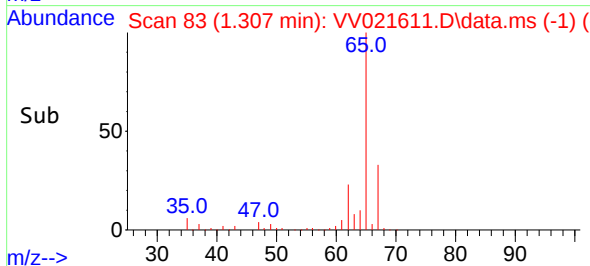
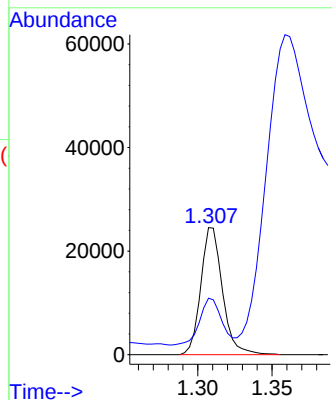
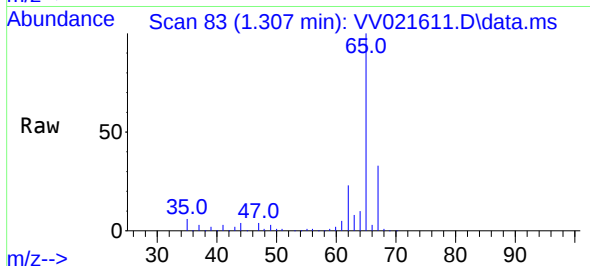




#5  
 Vinyl chloride  
 Concen: 5.974 ug/L  
 RT: 1.307 min Scan# 83  
 Delta R.T. -0.000 min  
 Lab File: VV021611.D  
 Acq: 06 Jul 2021 13:30

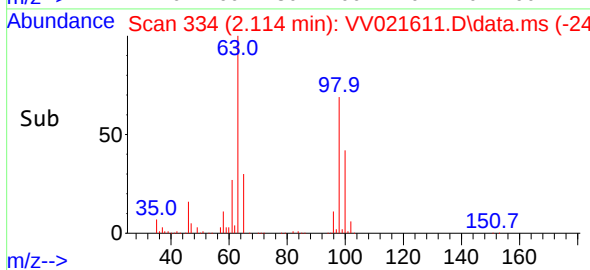
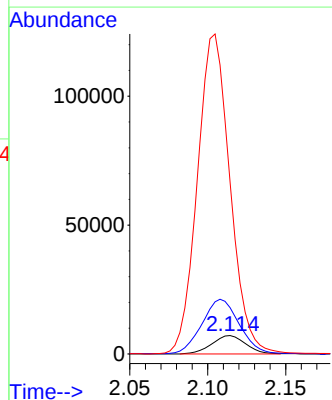
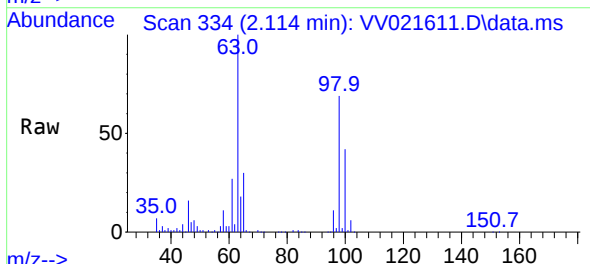
Instrument :  
 MSVOA\_V  
 ClientSampled :  
 DBK23

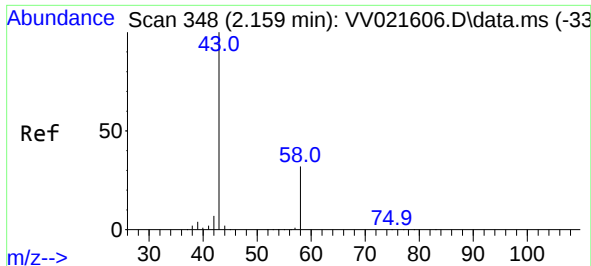
Tgt Ion: 62 Resp: 24948  
 Ion Ratio Lower Upper  
 62 100  
 64 44.4 23.3 43.3#



#12  
 1,1-Dichloroethene  
 Concen: 3.728 ug/L  
 RT: 2.114 min Scan# 334  
 Delta R.T. -0.000 min  
 Lab File: VV021611.D  
 Acq: 06 Jul 2021 13:30

Tgt Ion: 96 Resp: 10786  
 Ion Ratio Lower Upper  
 96 100  
 61 250.6 112.9 209.7#  
 63 929.5 90.8 168.6#





#13

Acetone

Concen: 1107.785 ug/L

RT: 2.153 min Scan# 346

Delta R.T. -0.007 min

Lab File: VV021611.D

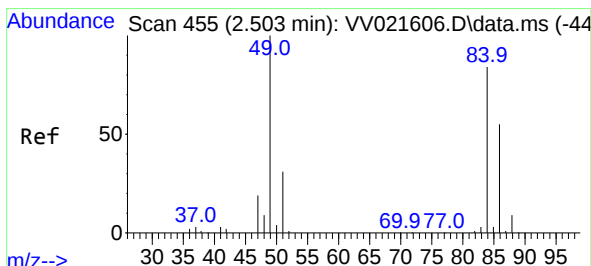
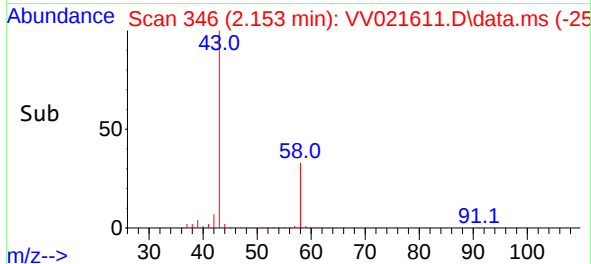
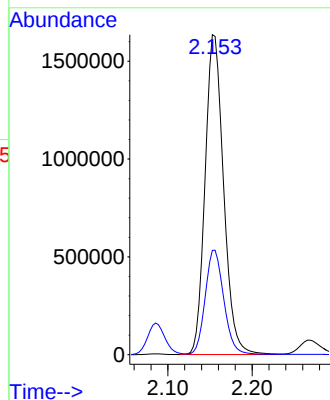
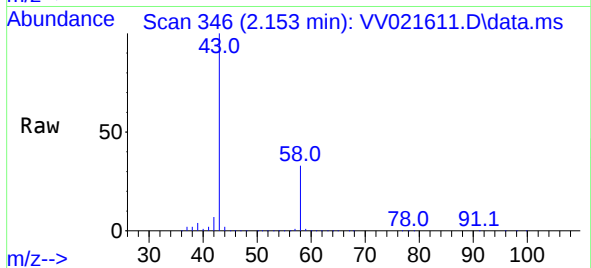
Acq: 06 Jul 2021 13:30

Tgt Ion: 43 Resp: 2506939

Ion Ratio Lower Upper

43 100

58 32.7 0.0 0.0#



#16

Methylene chloride

Concen: 9.686 ug/L

RT: 2.503 min Scan# 455

Delta R.T. -0.000 min

Lab File: VV021611.D

Acq: 06 Jul 2021 13:30

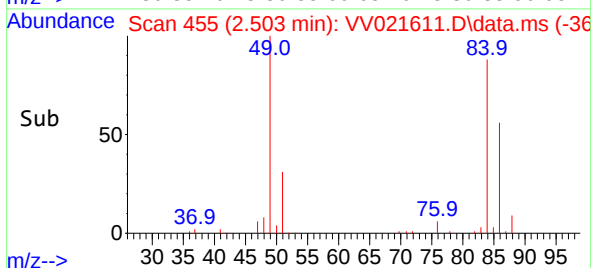
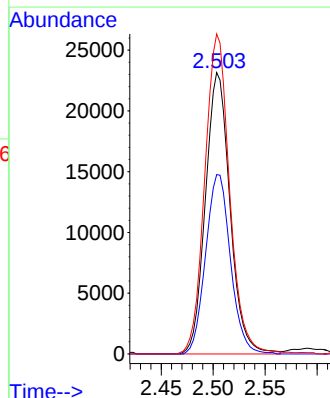
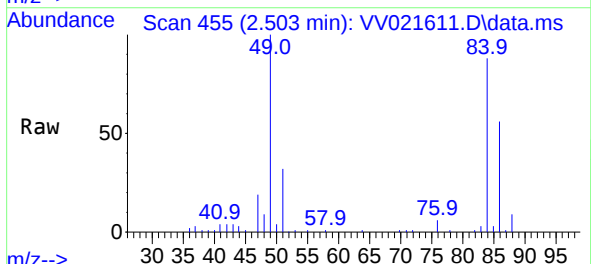
Tgt Ion: 84 Resp: 38039

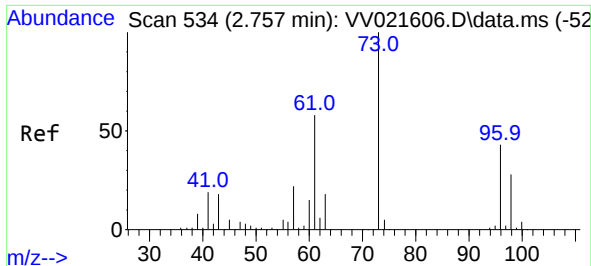
Ion Ratio Lower Upper

84 100

86 63.7 45.1 83.9

49 113.7 82.5 153.3

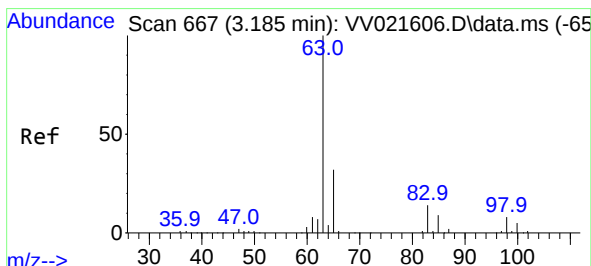
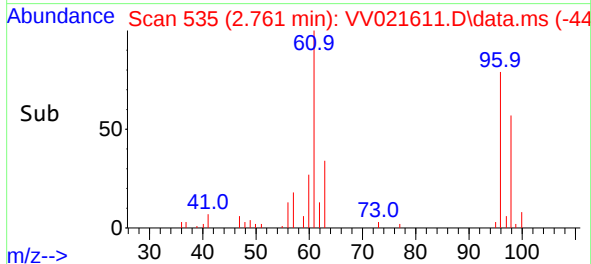
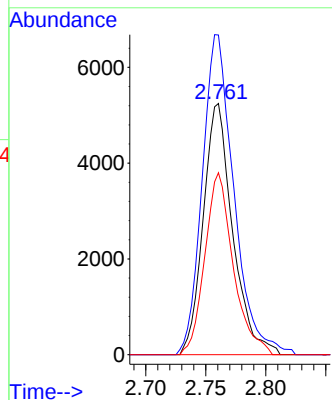
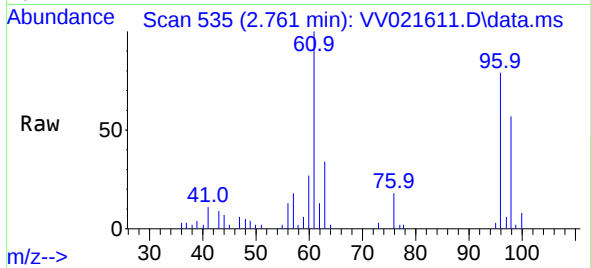




#17  
trans-1,2-Dichloroethene  
Concen: 2.543 ug/L  
RT: 2.761 min Scan# 535  
Delta R.T. 0.003 min  
Lab File: VV021611.D  
Acq: 06 Jul 2021 13:30

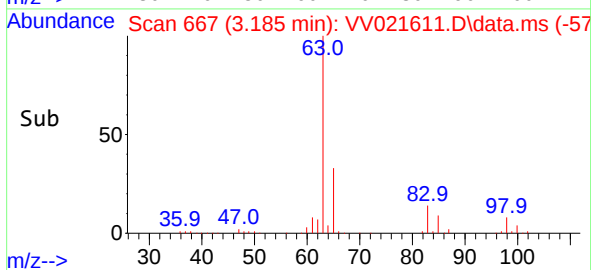
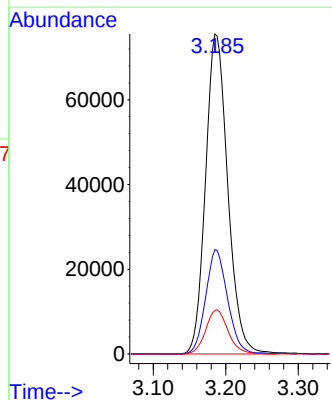
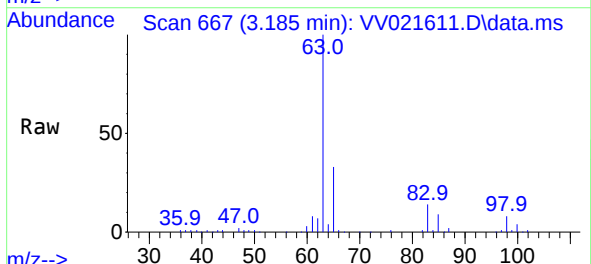
Instrument :  
MSVOA\_V  
ClientSampleId :  
DBK23

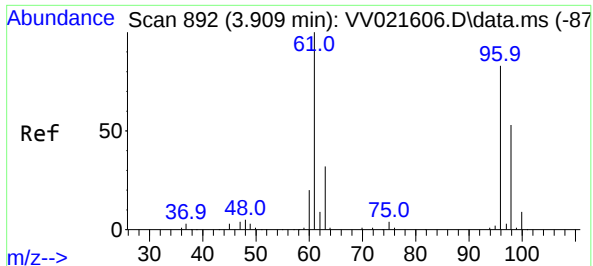
Tgt Ion: 96 Resp: 8974  
Ion Ratio Lower Upper  
96 100  
61 127.2 93.0 172.6  
98 72.4 44.2 82.0



#19  
1,1-Dichloroethane  
Concen: 25.048 ug/L  
RT: 3.185 min Scan# 667  
Delta R.T. -0.000 min  
Lab File: VV021611.D  
Acq: 06 Jul 2021 13:30

Tgt Ion: 63 Resp: 161043  
Ion Ratio Lower Upper  
63 100  
65 32.6 22.4 41.6  
83 13.6 9.4 17.6

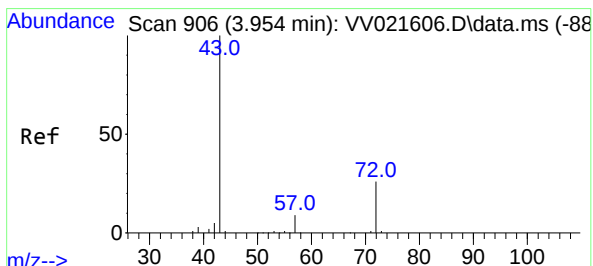
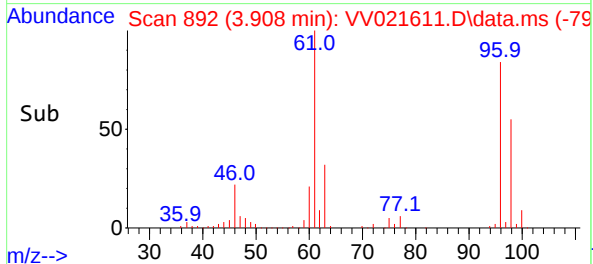
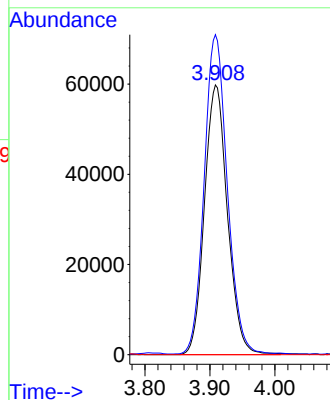
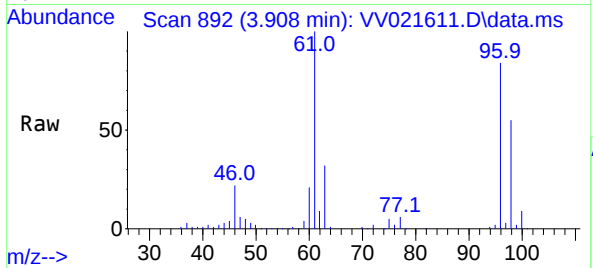




#20  
cis-1,2-Dichloroethene  
Concen: 37.582 ug/L  
RT: 3.908 min Scan# 892  
Delta R.T. -0.000 min  
Lab File: VV021611.D  
Acq: 06 Jul 2021 13:30

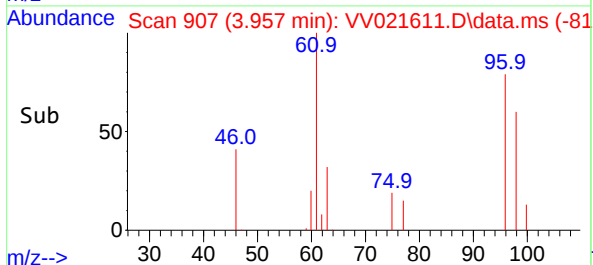
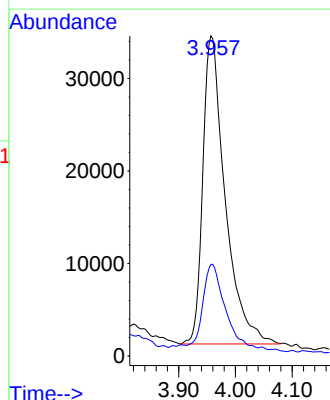
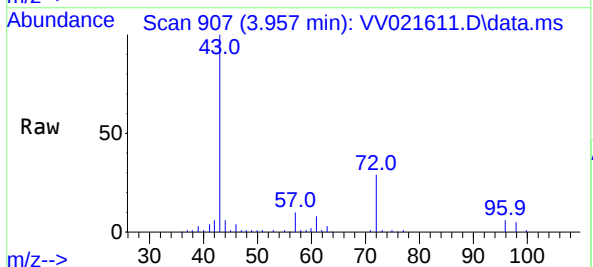
Instrument :  
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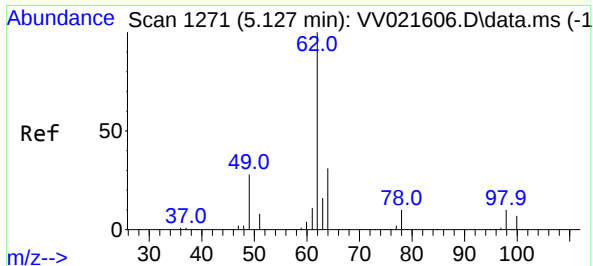
Tgt Ion: 96 Resp: 147504  
Ion Ratio Lower Upper  
96 100  
61 118.6 86.9 161.3  
68 0.0 0.0 0.0



#22  
2-Butanone  
Concen: 29.232 ug/L  
RT: 3.957 min Scan# 907  
Delta R.T. 0.003 min  
Lab File: VV021611.D  
Acq: 06 Jul 2021 13:30

Tgt Ion: 43 Resp: 91359  
Ion Ratio Lower Upper  
43 100  
72 24.6 13.3 39.8



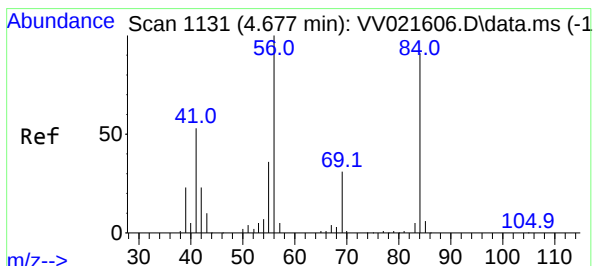
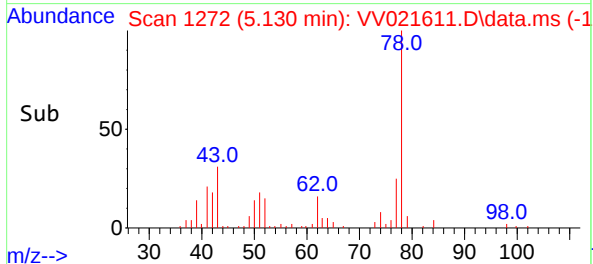
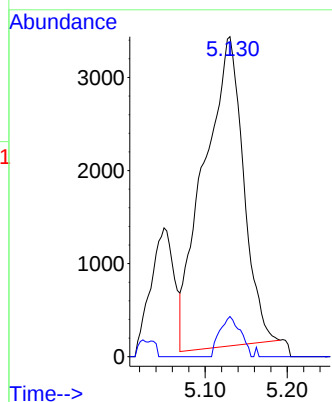
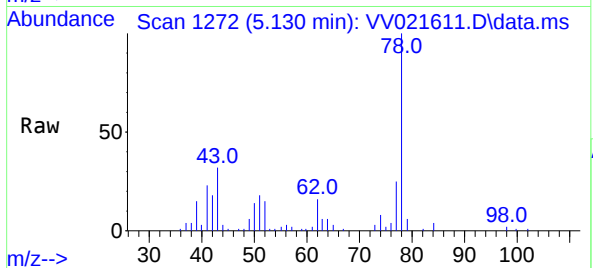


#27

1,2-Dichloroethane  
Concen: 2.332 ug/L  
RT: 5.130 min Scan# 1272  
Delta R.T. 0.003 min  
Lab File: VV021611.D  
Acq: 06 Jul 2021 13:30

Instrument :  
MSVOA\_V  
ClientSampled :  
DBK23

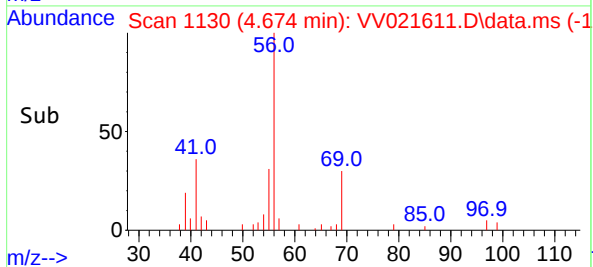
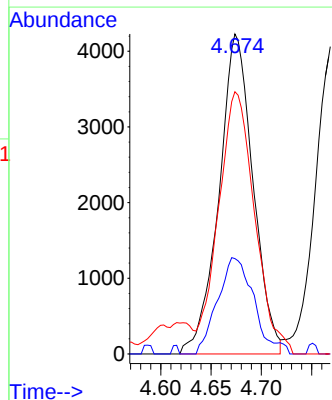
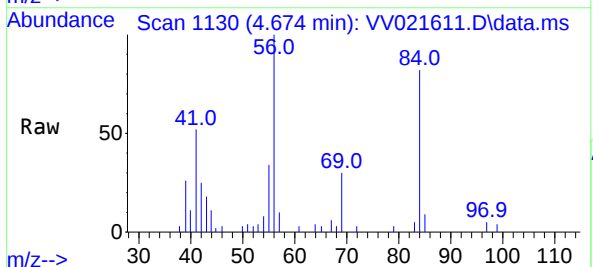
Tgt Ion: 62 Resp: 11119  
Ion Ratio Lower Upper  
62 100  
98 12.6 8.2 12.4#

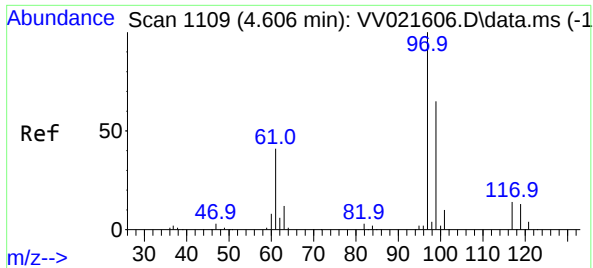


#29

Cyclohexane  
Concen: 1.674 ug/L  
RT: 4.674 min Scan# 1130  
Delta R.T. -0.003 min  
Lab File: VV021611.D  
Acq: 06 Jul 2021 13:30

Tgt Ion: 56 Resp: 9957  
Ion Ratio Lower Upper  
56 100  
69 31.0 24.9 37.3  
84 87.0 71.6 107.4



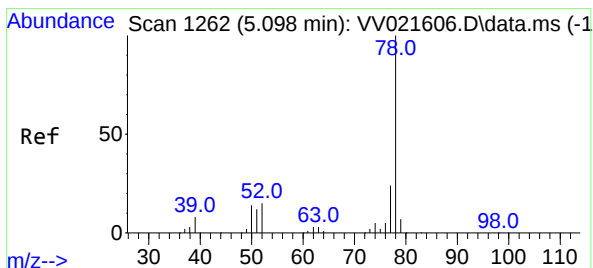
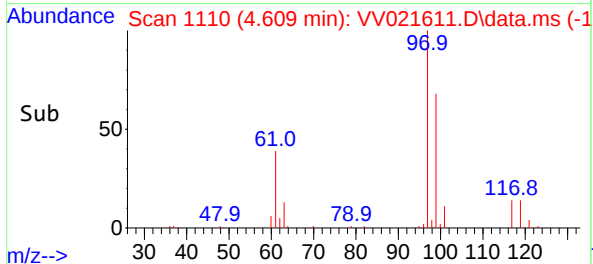
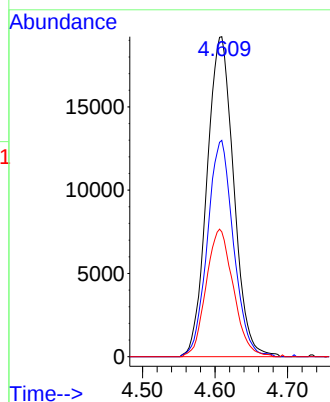
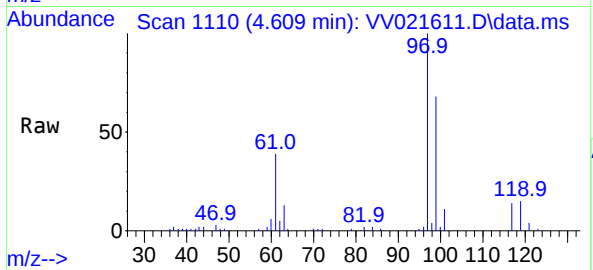


#30  
1,1,1-Trichloroethane  
Concen: 8.309 ug/L  
RT: 4.609 min Scan# 1110  
Delta R.T. 0.003 min  
Lab File: VV021611.D  
Acq: 06 Jul 2021 13:30

Instrument :  
MSVOA\_V  
ClientSampleId :  
DBK23

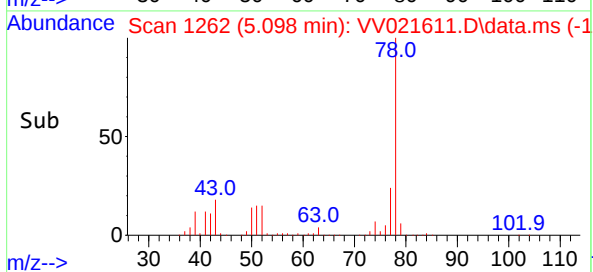
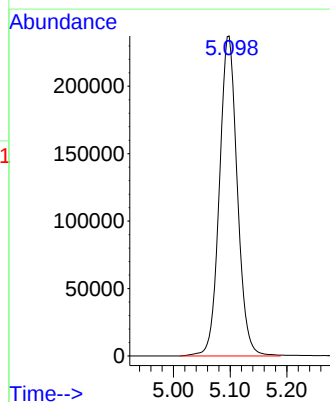
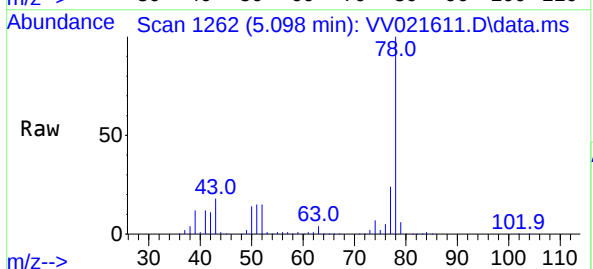
Tgt Ion: 97 Resp: 49215

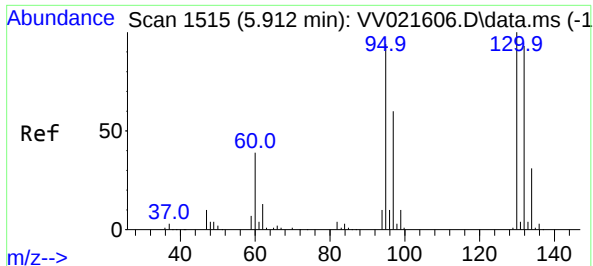
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 66.1  | 52.1  | 78.1  |
| 61  | 40.5  | 32.6  | 49.0  |



#33  
Benzene  
Concen: 36.249 ug/L  
RT: 5.098 min Scan# 1262  
Delta R.T. -0.000 min  
Lab File: VV021611.D  
Acq: 06 Jul 2021 13:30

Tgt Ion: 78 Resp: 519714

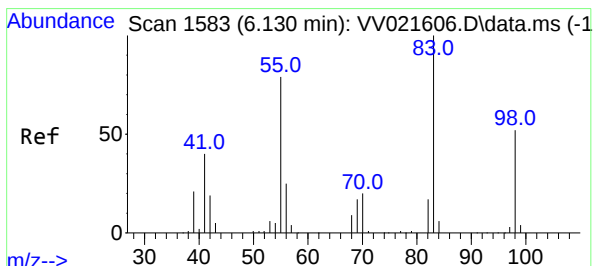
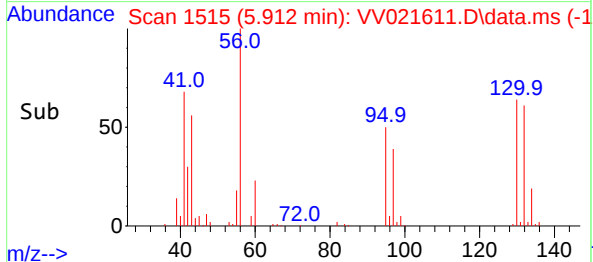
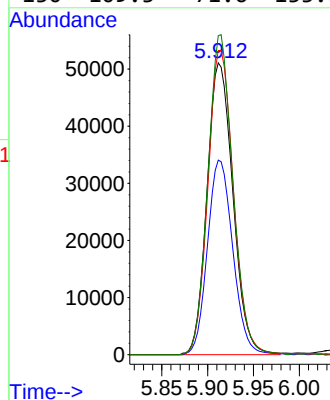
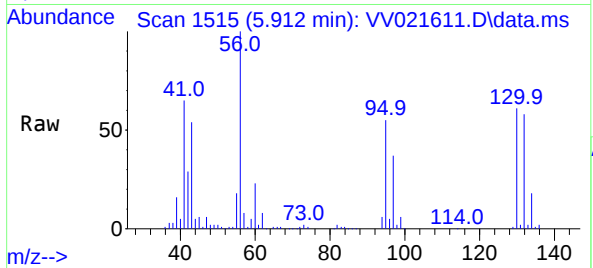




#34  
Trichloroethene  
Concen: 25.939 ug/L  
RT: 5.912 min Scan# 1515  
Delta R.T. -0.000 min  
Lab File: VV021611.D  
Acq: 06 Jul 2021 13:30

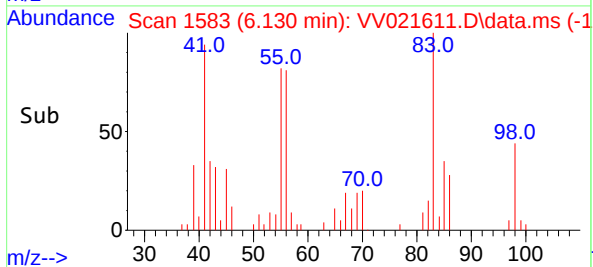
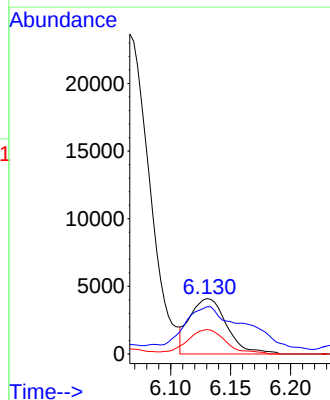
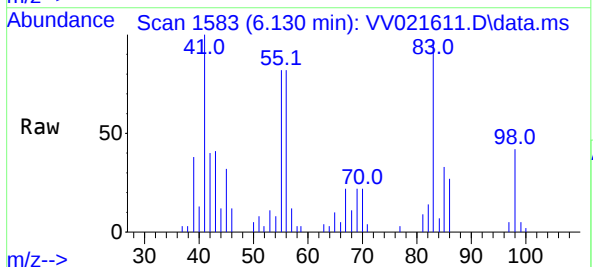
Instrument :  
MSVOA\_V  
ClientSampleId :  
DBK23

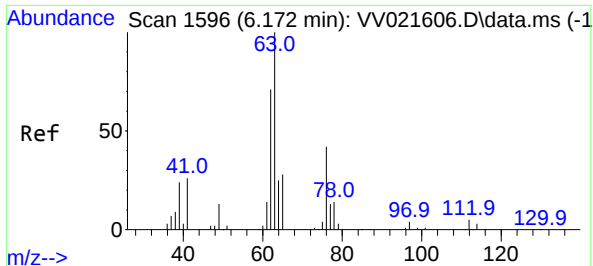
Tgt Ion: 95 Resp: 100529  
Ion Ratio Lower Upper  
95 100  
97 66.7 44.6 82.8  
132 104.2 69.0 128.1  
130 109.3 71.6 133.0



#35  
Methylcyclohexane  
Concen: 1.428 ug/L  
RT: 6.130 min Scan# 1583  
Delta R.T. -0.000 min  
Lab File: VV021611.D  
Acq: 06 Jul 2021 13:30

Tgt Ion: 83 Resp: 8787  
Ion Ratio Lower Upper  
83 100  
55 76.1 58.7 88.1  
98 45.9 39.7 59.5

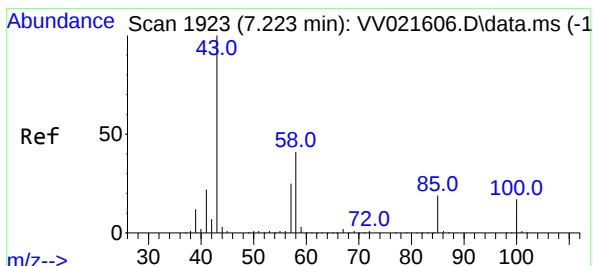
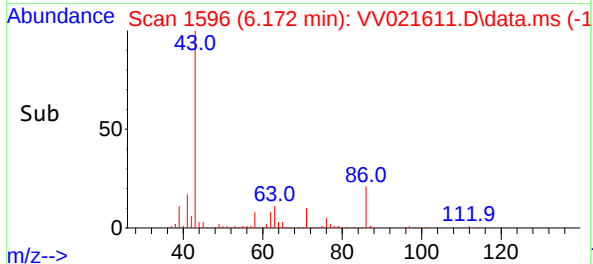
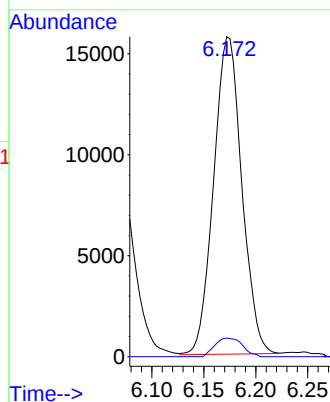
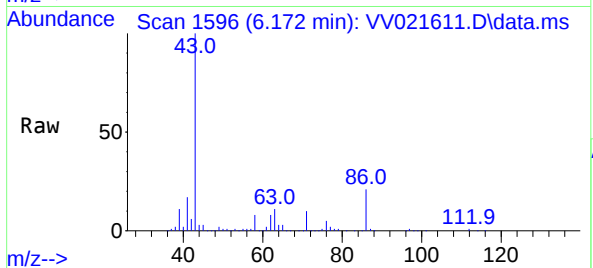




#37  
1,2-Dichloropropane  
Concen: 7.950 ug/L  
RT: 6.172 min Scan# 1596  
Delta R.T. -0.000 min  
Lab File: VV021611.D  
Acq: 06 Jul 2021 13:30

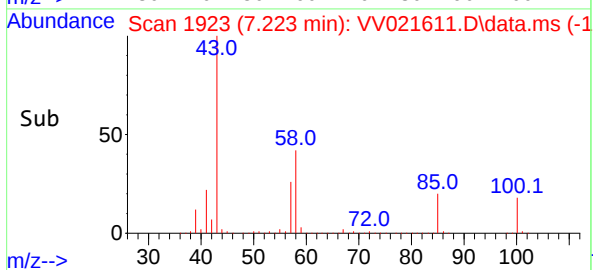
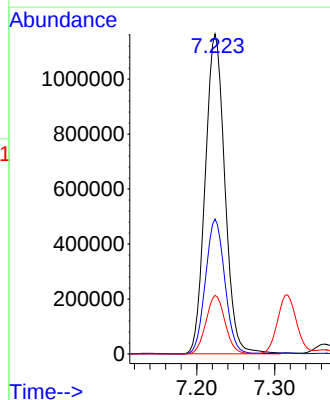
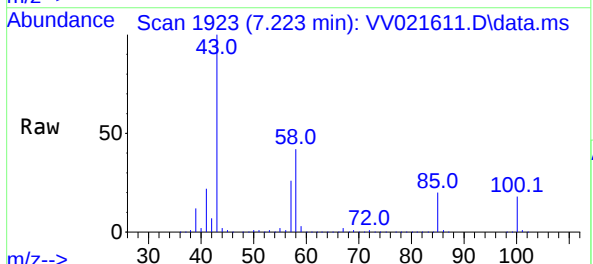
Instrument :  
MSVOA\_V  
ClientSampleId :  
DBK23

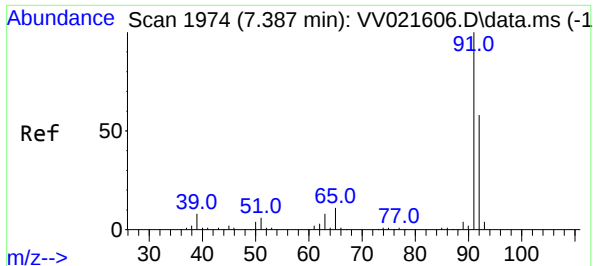
Tgt Ion: 63 Resp: 29625  
Ion Ratio Lower Upper  
63 100  
112 5.8 3.8 5.6#



#40  
4-Methyl-2-pentanone  
Concen: 371.937 ug/L  
RT: 7.223 min Scan# 1923  
Delta R.T. -0.000 min  
Lab File: VV021611.D  
Acq: 06 Jul 2021 13:30

Tgt Ion: 43 Resp: 2034671  
Ion Ratio Lower Upper  
43 100  
58 41.7 32.8 49.2  
100 17.9 13.5 20.3

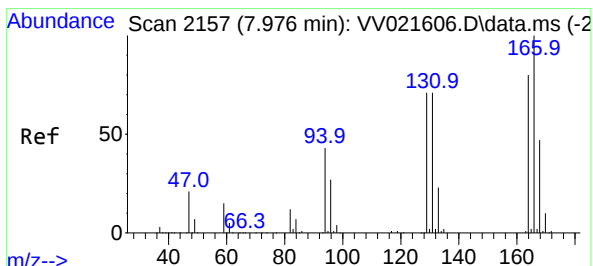
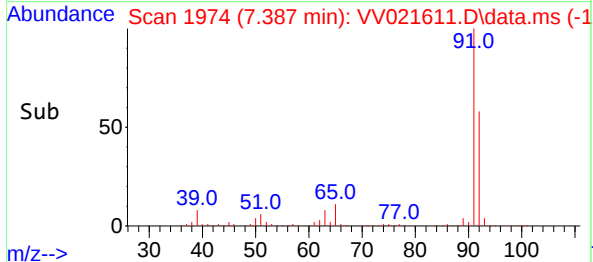
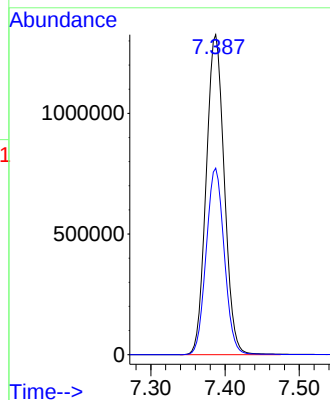
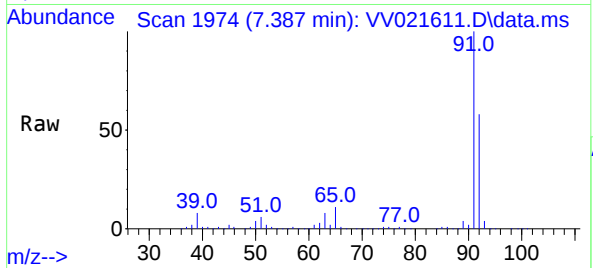




#42  
Toluene  
Concen: 145.991 ug/L  
RT: 7.387 min Scan# 1974  
Delta R.T. -0.000 min  
Lab File: VV021611.D  
Acq: 06 Jul 2021 13:30

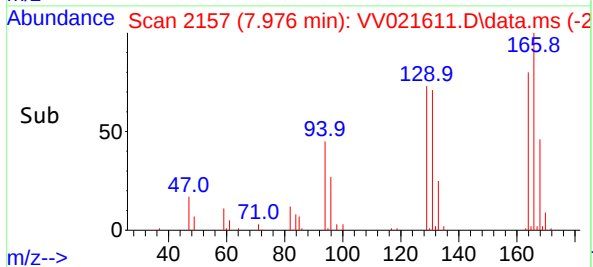
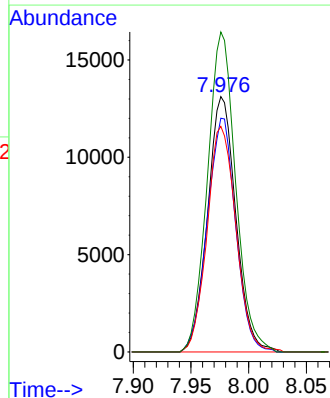
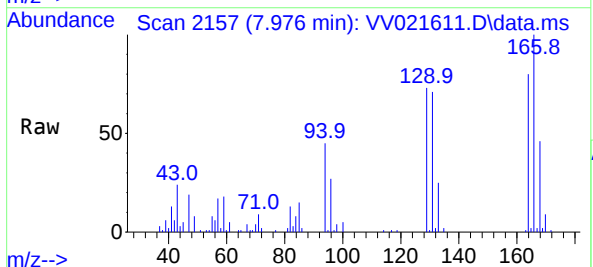
Instrument :  
MSVOA\_V  
ClientSampleId :  
DBK23

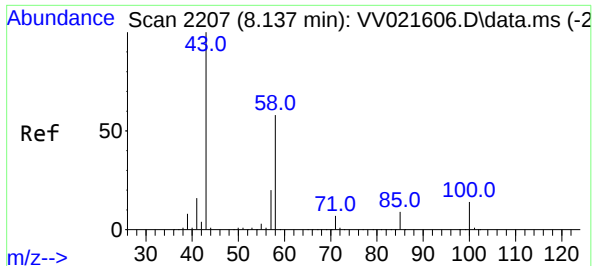
Tgt Ion: 91 Resp: 2241956  
Ion Ratio Lower Upper  
91 100  
92 58.3 40.6 75.4



#46  
Tetrachloroethene  
Concen: 7.251 ug/L  
RT: 7.976 min Scan# 2157  
Delta R.T. -0.000 min  
Lab File: VV021611.D  
Acq: 06 Jul 2021 13:30

Tgt Ion: 164 Resp: 22351  
Ion Ratio Lower Upper  
164 100  
129 91.5 65.9 122.3  
131 88.4 64.0 119.0  
166 125.3 89.0 165.2



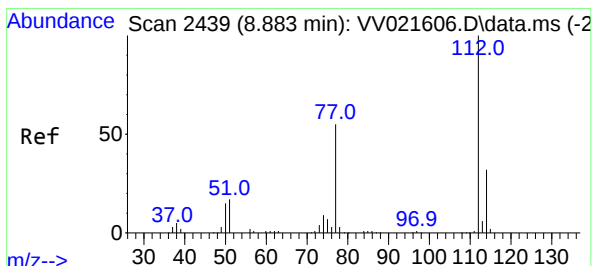
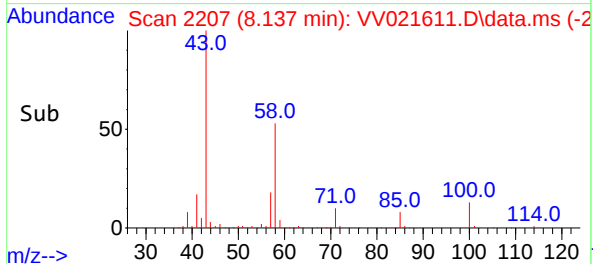
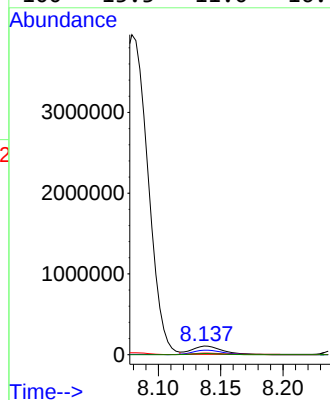
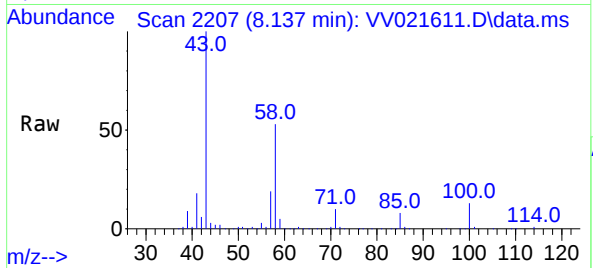


#48  
2-Hexanone  
Concen: 39.154 ug/L  
RT: 8.137 min Scan# 2207  
Delta R.T. -0.000 min  
Lab File: VV021611.D  
Acq: 06 Jul 2021 13:30

Instrument :  
MSVOA\_V  
ClientSampleId :  
DBK23

Tgt Ion: 43 Resp: 169301

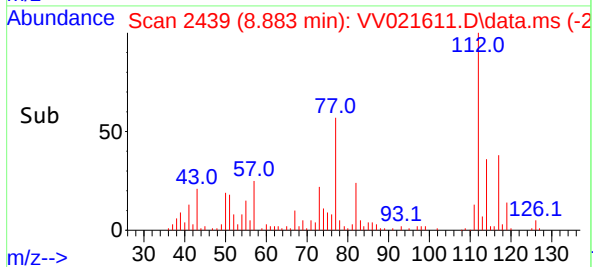
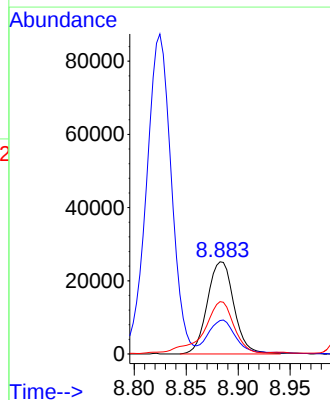
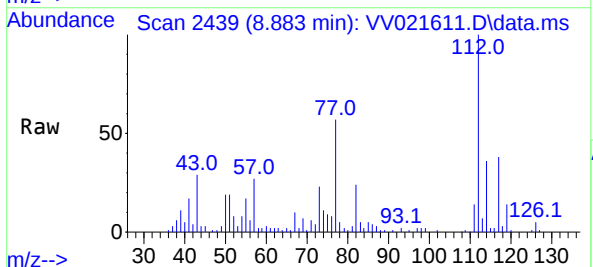
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 54.6  | 46.7  | 70.1  |
| 57  | 20.4  | 15.5  | 23.3  |
| 100 | 13.3  | 11.0  | 16.4  |

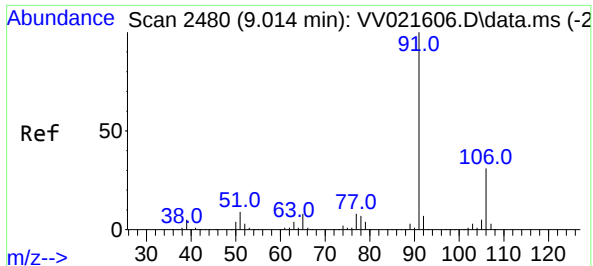


#51  
Chlorobenzene  
Concen: 4.490 ug/L  
RT: 8.883 min Scan# 2439  
Delta R.T. -0.000 min  
Lab File: VV021611.D  
Acq: 06 Jul 2021 13:30

Tgt Ion: 112 Resp: 44871

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 112 | 100   |       |       |
| 114 | 36.3  | 21.9  | 40.7  |
| 77  | 56.7  | 44.0  | 66.0  |

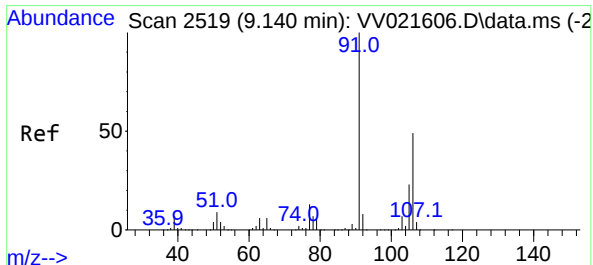
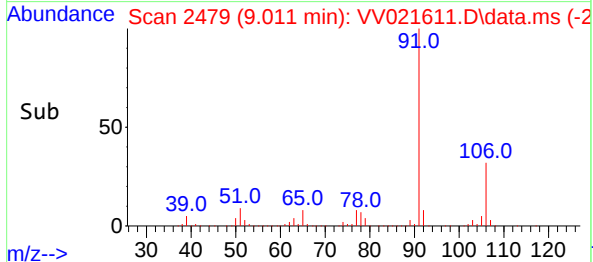
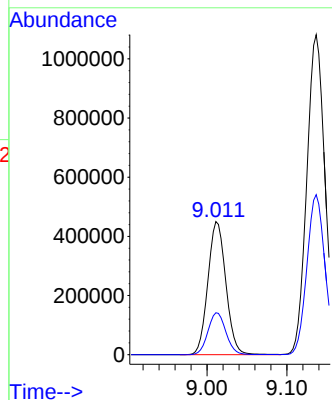
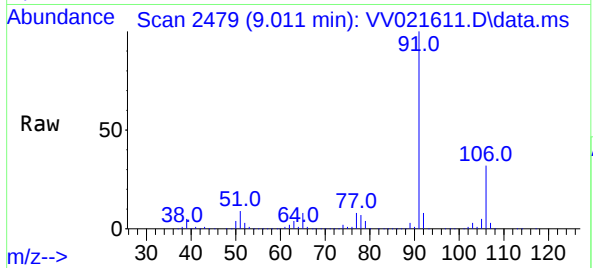




#52  
Ethylbenzene  
Concen: 42.252 ug/L  
RT: 9.011 min Scan# 2479  
Delta R.T. -0.003 min  
Lab File: VV021611.D  
Acq: 06 Jul 2021 13:30

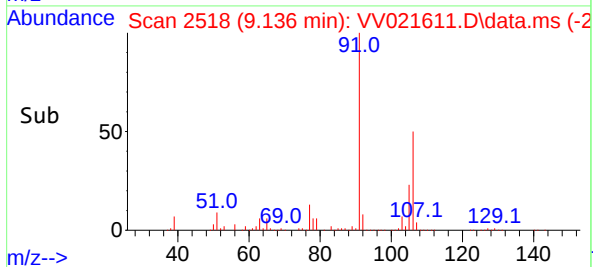
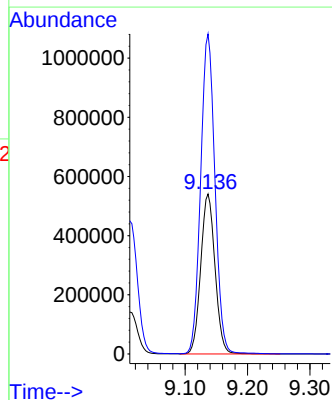
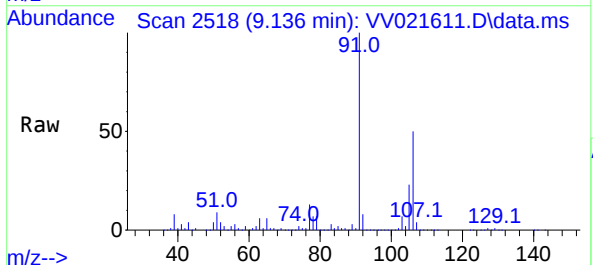
Instrument :  
MSVOA\_V  
ClientSampled :  
DBK23

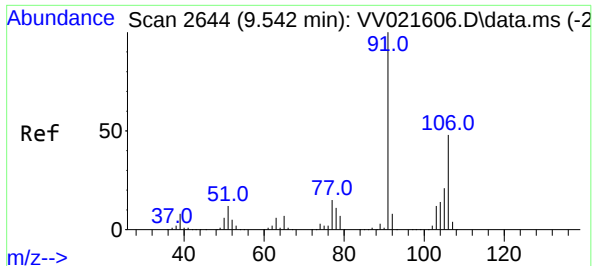
Tgt Ion: 91 Resp: 704917  
Ion Ratio Lower Upper  
91 100  
106 31.5 21.8 40.6



#53  
m,p-Xylene  
Concen: 134.422 ug/L  
RT: 9.136 min Scan# 2518  
Delta R.T. -0.003 min  
Lab File: VV021611.D  
Acq: 06 Jul 2021 13:30

Tgt Ion: 106 Resp: 860644  
Ion Ratio Lower Upper  
106 100  
91 200.1 138.7 257.5

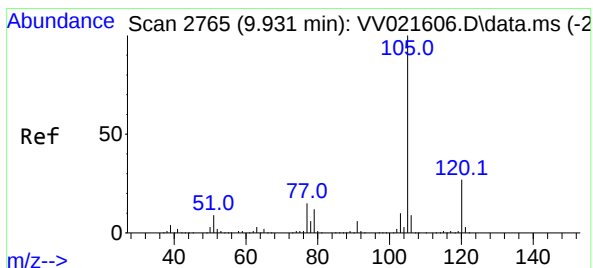
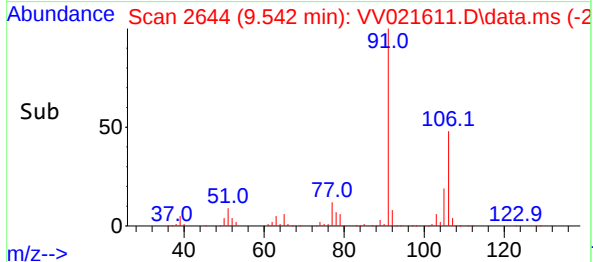
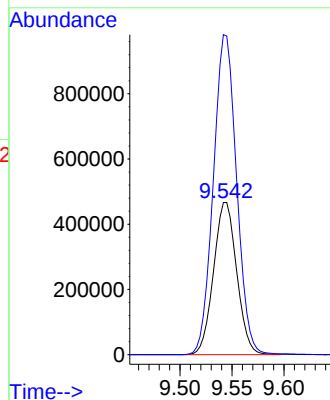
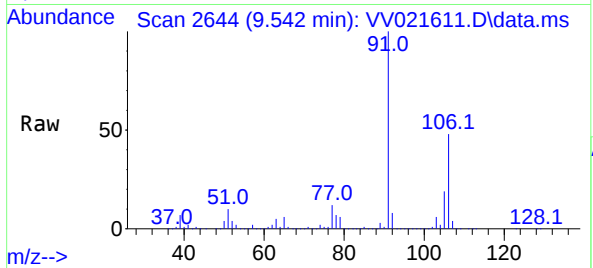




#54  
o-Xylene  
Concen: 113.392 ug/L  
RT: 9.542 min Scan# 2644  
Delta R.T. -0.000 min  
Lab File: VV021611.D  
Acq: 06 Jul 2021 13:30

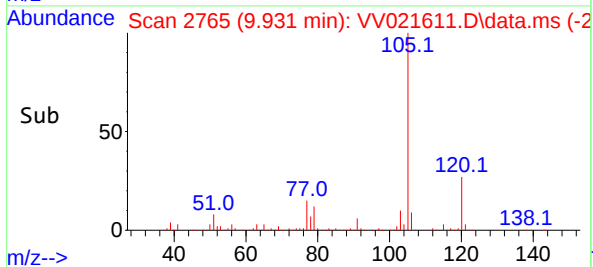
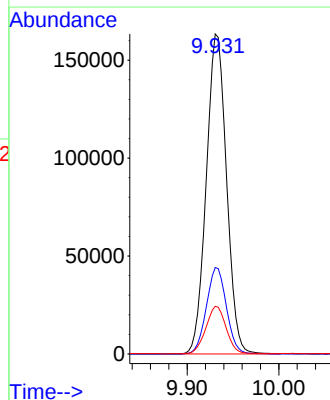
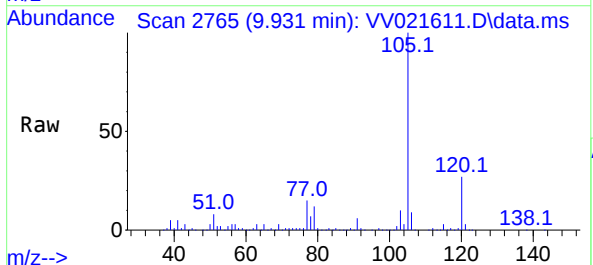
Instrument :  
MSVOA\_V  
ClientSampleId :  
DBK23

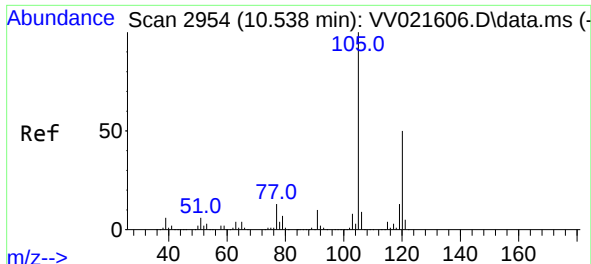
Tgt Ion:106 Resp: 724298  
Ion Ratio Lower Upper  
106 100  
91 210.3 149.0 276.8



#60  
Isopropylbenzene  
Concen: 14.668 ug/L  
RT: 9.931 min Scan# 2765  
Delta R.T. -0.000 min  
Lab File: VV021611.D  
Acq: 06 Jul 2021 13:30

Tgt Ion:105 Resp: 250936  
Ion Ratio Lower Upper  
105 100  
120 26.6 21.5 32.3  
77 14.9 12.0 18.0

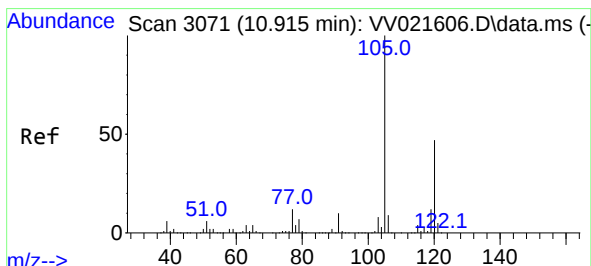
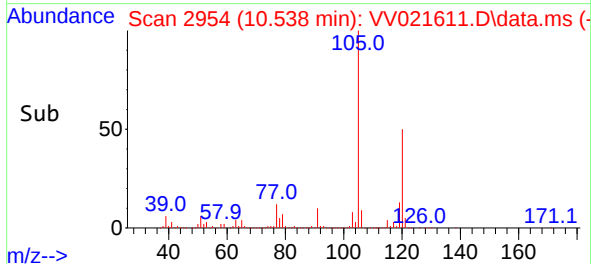
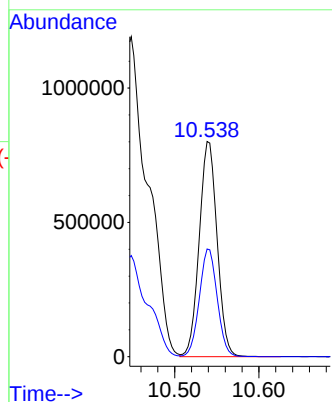
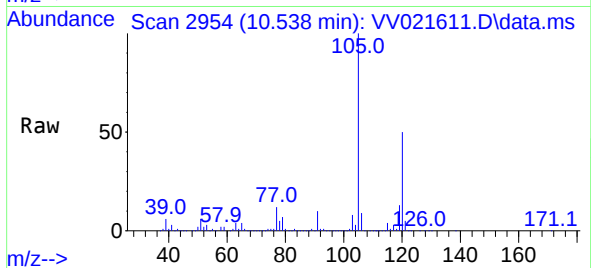




#62  
1,3,5-Trimethylbenzene  
Concen: 81.332 ug/L  
RT: 10.538 min Scan# 2954  
Delta R.T. -0.000 min  
Lab File: VV021611.D  
Acq: 06 Jul 2021 13:30

Instrument :  
MSVOA\_V  
ClientSampleId :  
DBK23

Tgt Ion:105 Resp: 1185872  
Ion Ratio Lower Upper  
105 100  
120 49.8 40.0 60.0



#63  
1,2,4-Trimethylbenzene  
Concen: 199.020 ug/L  
RT: 10.918 min Scan# 3072  
Delta R.T. 0.003 min  
Lab File: VV021611.D  
Acq: 06 Jul 2021 13:30

Tgt Ion:105 Resp: 2936648  
Ion Ratio Lower Upper  
105 100  
120 46.4 37.1 55.7

