

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY092721\  
 Data File : VY006176.D  
 Acq On : 27 Sep 2021 20:12  
 Operator : SY/MD  
 Sample : M3872-01RE  
 Misc : 5.03G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 SP-LPA-01

Manual Integrations  
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Quant Time: Sep 28 06:24:19 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y091421S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 15 05:01:47 2021  
 Response via : Initial Calibration

| Compound                    | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-----------------------------|----------------|------|------------|-----------|--------|----------|
| -----                       |                |      |            |           |        |          |
| Internal Standards          |                |      |            |           |        |          |
| 1) Pentafluorobenzene       | 7.795          | 168  | 60178      | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.691          | 114  | 93284      | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.496         | 117  | 78480      | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.428         | 152  | 62933      | 50.000    | ug/l   | # 0.00   |
|                             |                |      |            |           |        |          |
| System Monitoring Compounds |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.149          | 65   | 34315      | 41.051    | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 50 - 163 |      | Recovery = | 82.100%   |        |          |
| 35) Dibromofluoromethane    | 7.722          | 113  | 26047      | 44.955    | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 54 - 147 |      | Recovery = | 89.900%   |        |          |
| 50) Toluene-d8              | 10.179         | 98   | 142088     | 57.539    | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 49 - 140 |      | Recovery = | 115.080%  |        |          |
| 62) 4-Bromofluorobenzene    | 12.477         | 95   | 87380      | 104.220   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 25 - 144 |      | Recovery = | 208.440%# |        |          |
|                             |                |      |            |           |        |          |
| Target Compounds            |                |      |            |           | Qvalue |          |
| 16) Acetone                 | 4.003          | 43   | 8065m      | 35.177    | ug/l   |          |
| 17) Carbon Disulfide        | 4.186          | 76   | 27495      | 13.702    | ug/l   | 100      |
| 31) Cyclohexane             | 7.777          | 56   | 66723      | 49.828    | ug/l   | # 80     |
| 39) Methylcyclohexane       | 9.185          | 83   | 303668     | 243.340   | ug/l   | 98       |
| 40) Benzene                 | 8.161          | 78   | 14404      | 4.989     | ug/l   | 95       |
| 52) Toluene                 | 10.246         | 92   | 2820       | 1.585     | ug/l   | 75       |
| 67) Ethyl Benzene           | 11.593         | 91   | 551542     | 172.791   | ug/l   | 99       |
| 68) m/p-Xylenes             | 11.709         | 106  | 431487     | 356.496   | ug/l   | 98       |
| 69) o-Xylene                | 12.032         | 106  | 63948      | 55.940    | ug/l   | 91       |
| 73) Isopropylbenzene        | 12.331         | 105  | 471435     | 95.663    | ug/l   | 100      |
| 78) n-propylbenzene         | 12.672         | 91   | 281447     | 46.159    | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene  | 12.812         | 105  | 1081036    | 264.498   | ug/l   | 100      |
| 83) tert-Butylbenzene       | 13.075         | 119  | 45728      | 13.081    | ug/l   | 93       |
| 84) 1,2,4-Trimethylbenzene  | 13.123         | 105  | 2619748    | 646.070   | ug/l   | 98       |
| 85) sec-Butylbenzene        | 13.258         | 105  | 202286     | 38.657    | ug/l   | # 63     |
| 86) p-Isopropyltoluene      | 13.373         | 119  | 234028     | 52.385    | ug/l   | 96       |
| 89) n-Butylbenzene          | 13.696         | 91   | 194245     | 46.496    | ug/l   | # 69     |
| -----                       |                |      |            |           |        |          |

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

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[illegible]



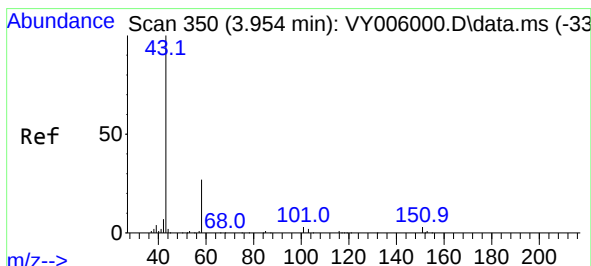
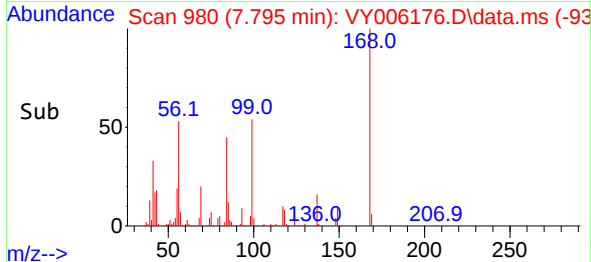
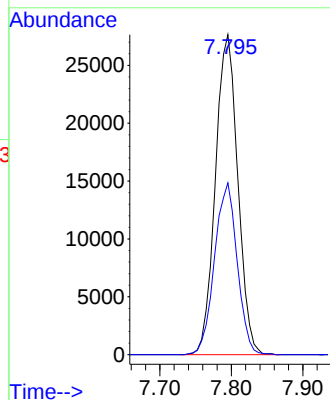
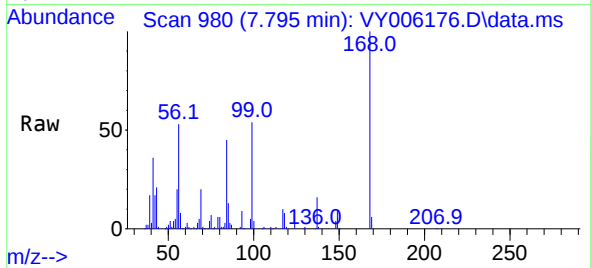
#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.795 min Scan# 980  
Delta R.T. 0.000 min  
Lab File: VY006176.D  
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Tgt Ion: 168 Resp: 60178  
Ion Ratio Lower Upper  
168 100  
99 53.7 46.9 70.3

Instrument :  
MSVOA\_Y  
ClientSampleId :  
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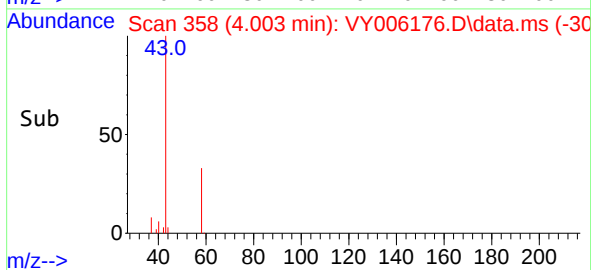
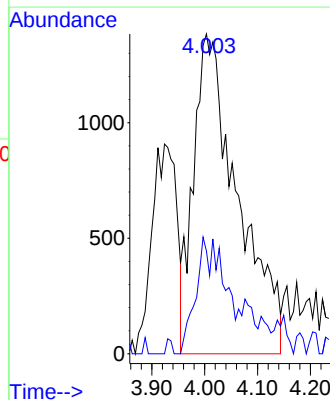
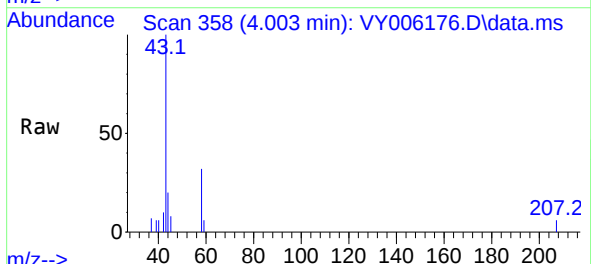
Manual Integrations  
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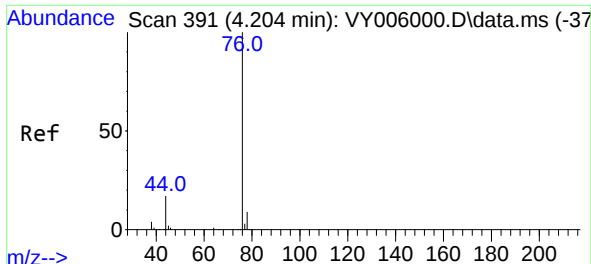
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#16  
Acetone  
Concen: 35.177 ug/l m  
RT: 4.003 min Scan# 358  
Delta R.T. 0.049 min  
Lab File: VY006176.D  
Acq: 27 Sep 2021 20:12

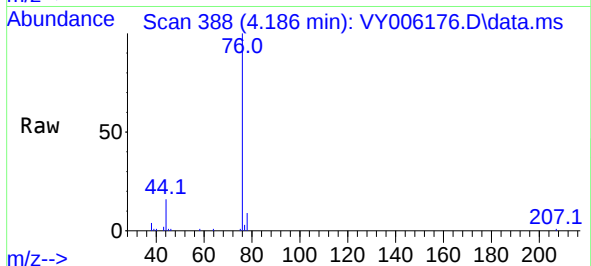
Tgt Ion: 43 Resp: 8065  
Ion Ratio Lower Upper  
43 100  
58 32.2 22.0 33.0





#17  
Carbon Disulfide  
Concen: 13.702 ug/l  
RT: 4.186 min Scan# 388  
Delta R.T. -0.018 min  
Lab File: VY006176.D  
Acq: 27 Sep 2021 20:12

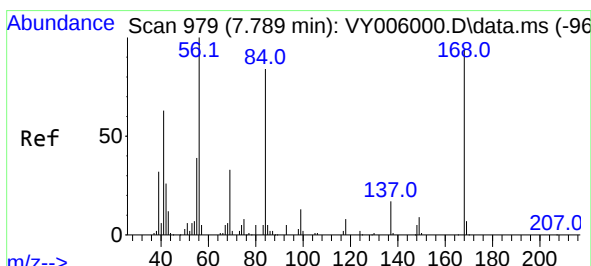
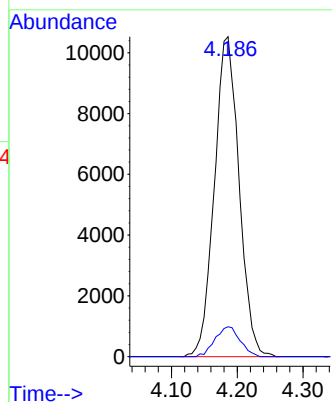
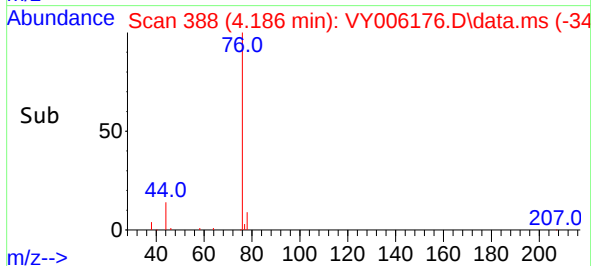
Instrument :  
MSVOA\_Y  
ClientSampleId :  
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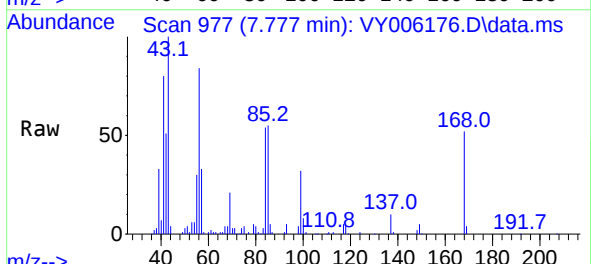
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Ion Ratio Lower Upper  
76 100  
78 9.4 7.4 11.0

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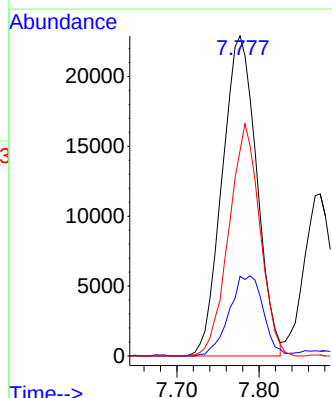
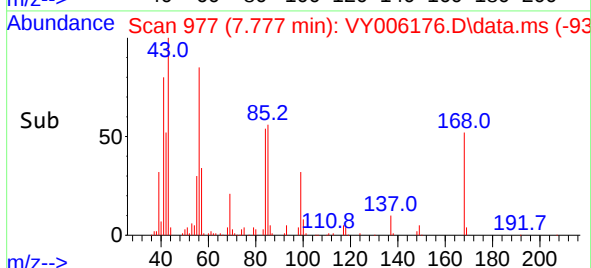
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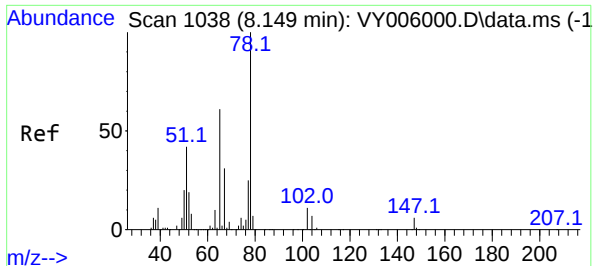


#31  
Cyclohexane  
Concen: 49.828 ug/l  
RT: 7.777 min Scan# 977  
Delta R.T. -0.012 min  
Lab File: VY006176.D  
Acq: 27 Sep 2021 20:12

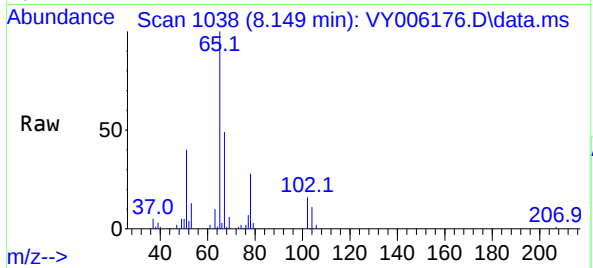


Tgt Ion: 56 Resp: 66723  
Ion Ratio Lower Upper  
56 100  
69 24.9 26.7 40.1#  
84 64.2 67.2 100.8#

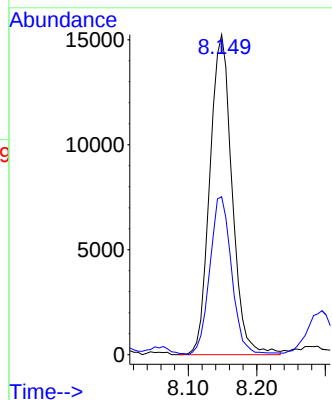
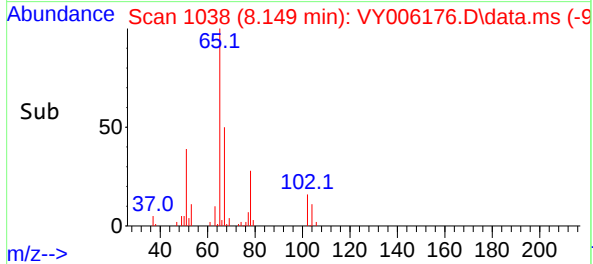




#33  
1,2-Dichloroethane-d4  
Concen: 41.051 ug/l  
RT: 8.149 min Scan# 1038  
Delta R.T. 0.000 min  
Lab File: VY006176.D  
Acq: 27 Sep 2021 20:12



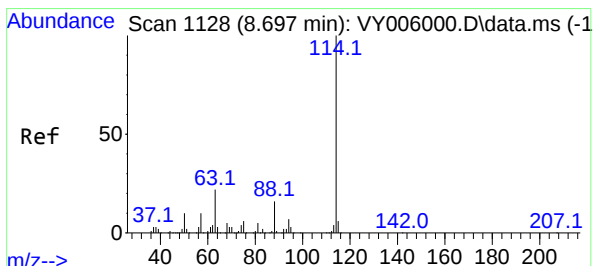
Tgt Ion: 65 Resp: 34315  
Ion Ratio Lower Upper  
65 100  
67 48.7 0.0 99.4



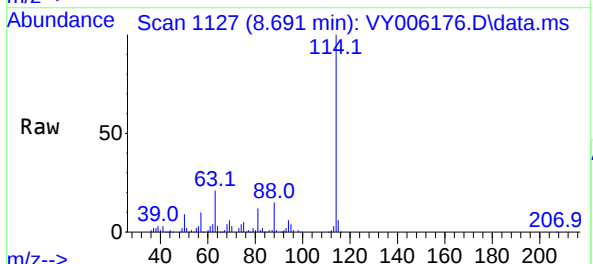
Instrument :  
MSVOA\_Y  
ClientSampleId :  
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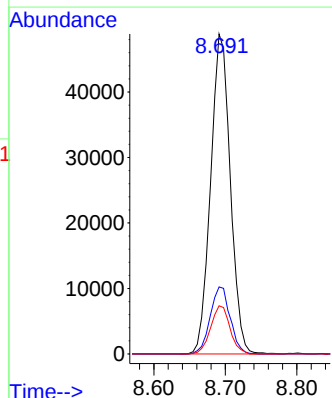
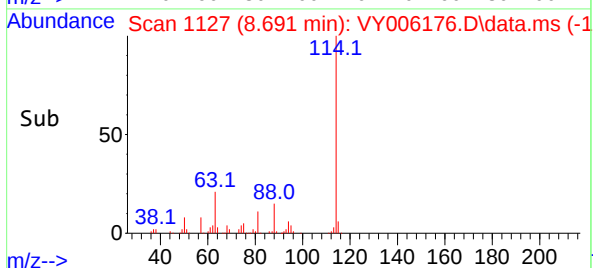
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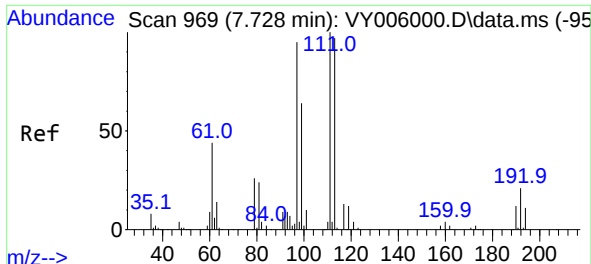


#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.691 min Scan# 1127  
Delta R.T. -0.006 min  
Lab File: VY006176.D  
Acq: 27 Sep 2021 20:12



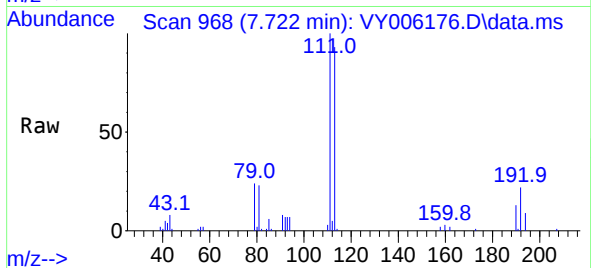
Tgt Ion: 114 Resp: 93284  
Ion Ratio Lower Upper  
114 100  
63 21.0 0.0 43.2  
88 15.1 0.0 31.8





#35  
Dibromofluoromethane  
Concen: 44.955 ug/l  
RT: 7.722 min Scan# 968  
Delta R.T. -0.006 min  
Lab File: VY006176.D  
Acq: 27 Sep 2021 20:12

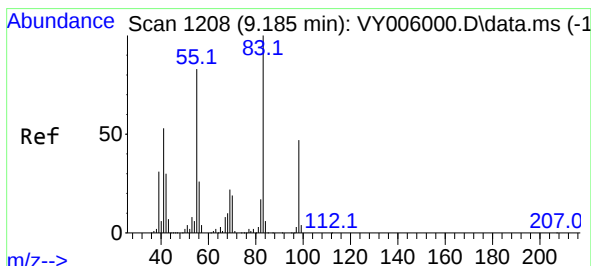
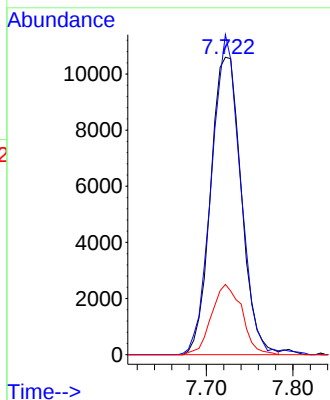
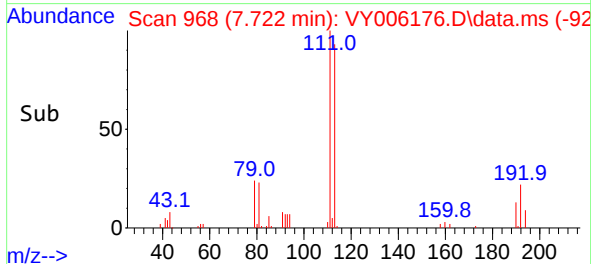
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SP-LPA-01



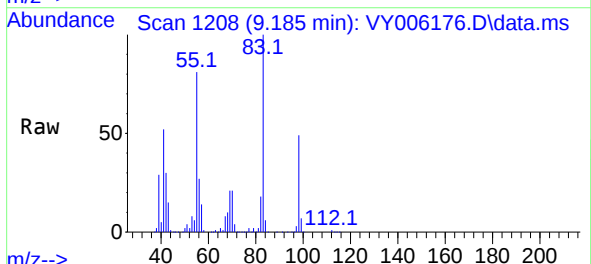
Tgt Ion:113 Resp: 26047  
Ion Ratio Lower Upper  
113 100  
111 101.9 82.6 124.0  
192 23.5 17.6 26.4

Manual Integrations  
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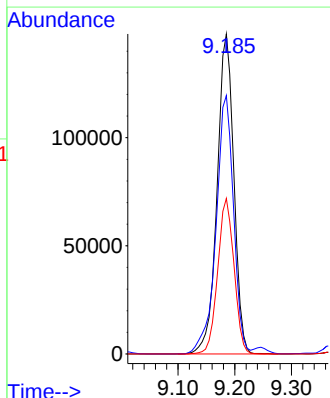
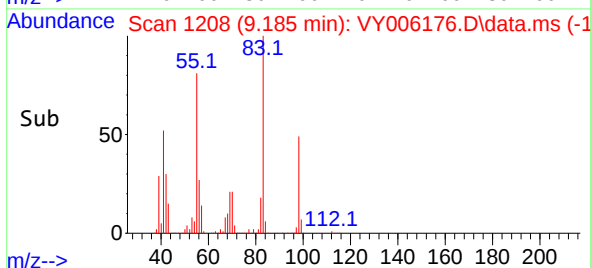
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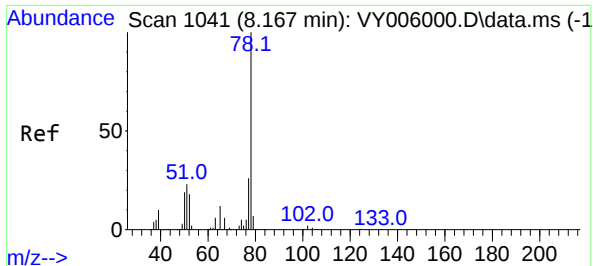


#39  
Methylcyclohexane  
Concen: 243.340 ug/l  
RT: 9.185 min Scan# 1208  
Delta R.T. 0.000 min  
Lab File: VY006176.D  
Acq: 27 Sep 2021 20:12



Tgt Ion: 83 Resp: 303668  
Ion Ratio Lower Upper  
83 100  
55 80.7 66.5 99.7  
98 48.6 37.9 56.9





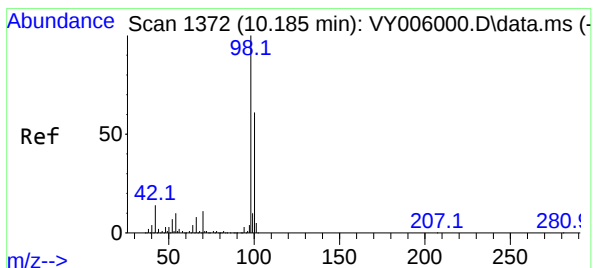
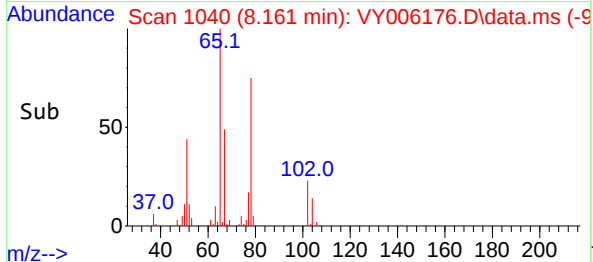
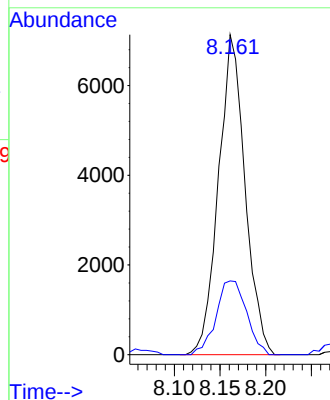
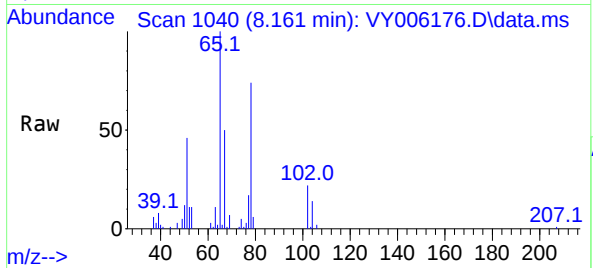
#40  
Benzene  
Concen: 4.989 ug/l  
RT: 8.161 min Scan# 1040  
Delta R.T. -0.006 min  
Lab File: VY006176.D  
Acq: 27 Sep 2021 20:12

Tgt Ion: 78 Resp: 14404  
Ion Ratio Lower Upper  
78 100  
77 23.1 20.4 30.6

Instrument :  
MSVOA\_Y  
ClientSampleId :  
SP-LPA-01

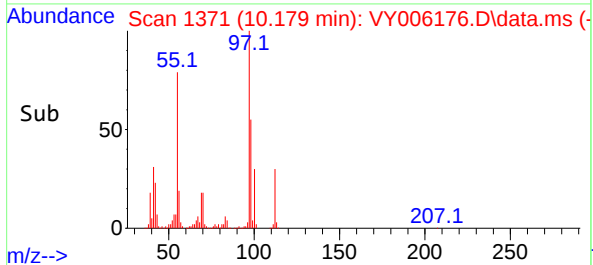
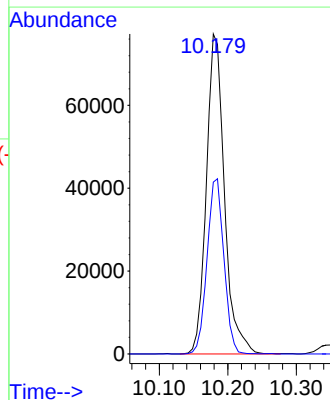
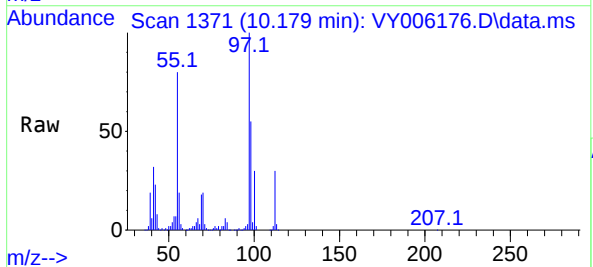
Manual Integrations  
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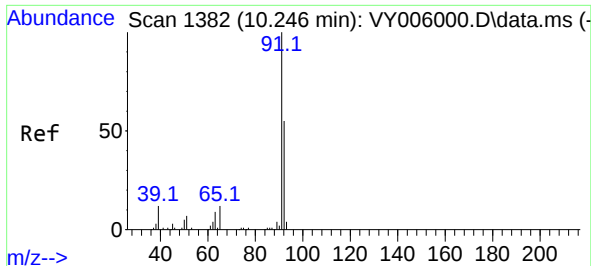
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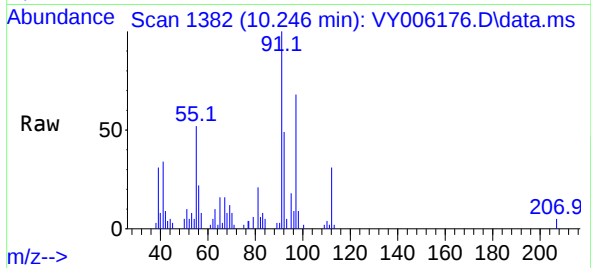
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Toluene-d8  
Concen: 57.539 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. -0.006 min  
Lab File: VY006176.D  
Acq: 27 Sep 2021 20:12

Tgt Ion: 98 Resp: 142088  
Ion Ratio Lower Upper  
98 100  
100 50.9 50.2 75.2

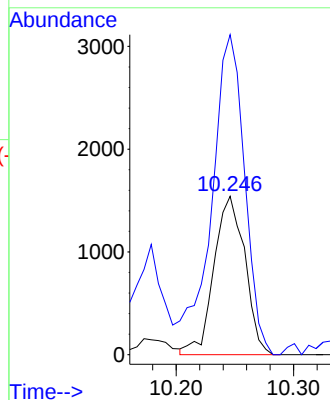
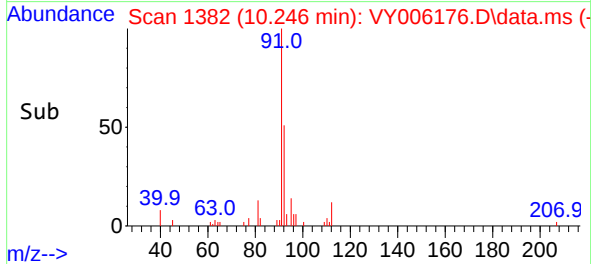




#52  
Toluene  
Concen: 1.585 ug/l  
RT: 10.246 min Scan# 1382  
Delta R.T. 0.000 min  
Lab File: VY006176.D  
Acq: 27 Sep 2021 20:12



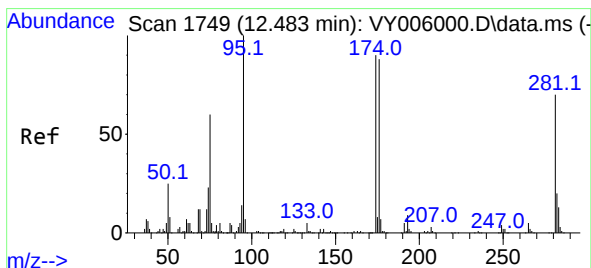
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Ion Ratio Lower Upper  
92 100  
91 213.5 142.6 213.8



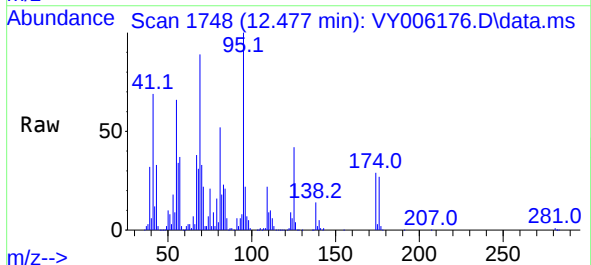
Instrument :  
MSVOA\_Y  
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SP-LPA-01

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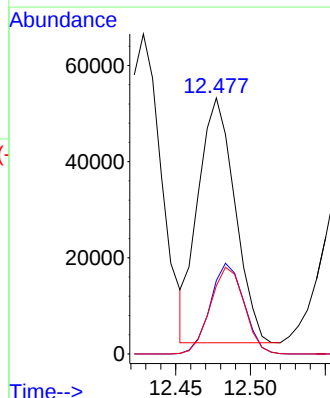
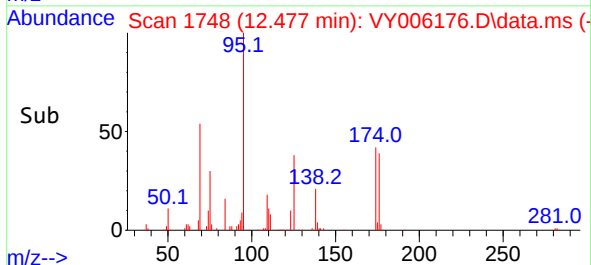
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9/28/2021 7:07:22 PM

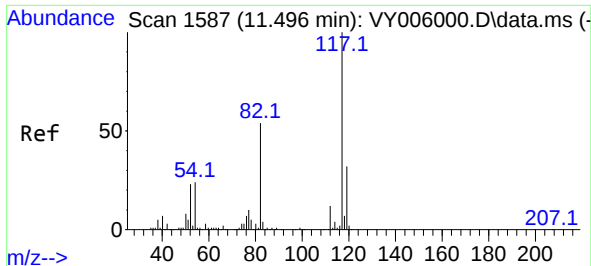


#62  
4-Bromofluorobenzene  
Concen: 104.220 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.006 min  
Lab File: VY006176.D  
Acq: 27 Sep 2021 20:12



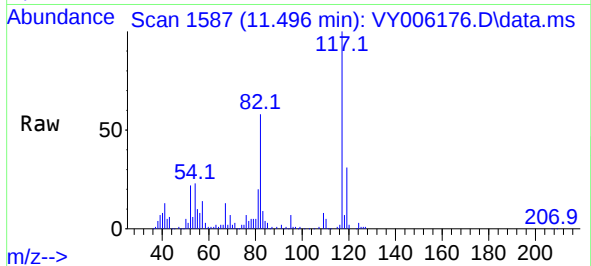
Tgt Ion: 95 Resp: 87380  
Ion Ratio Lower Upper  
95 100  
174 33.8 0.0 177.0  
176 32.6 0.0 175.8





#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.496 min Scan# 1587  
Delta R.T. 0.000 min  
Lab File: VY006176.D  
Acq: 27 Sep 2021 20:12

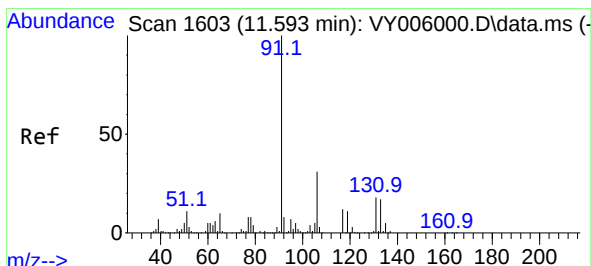
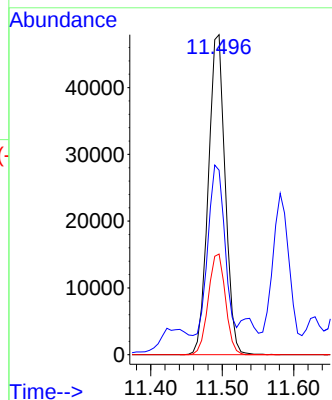
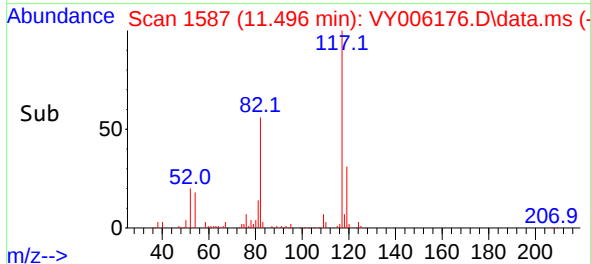
Instrument :  
MSVOA\_Y  
ClientSampled :  
SP-LPA-01



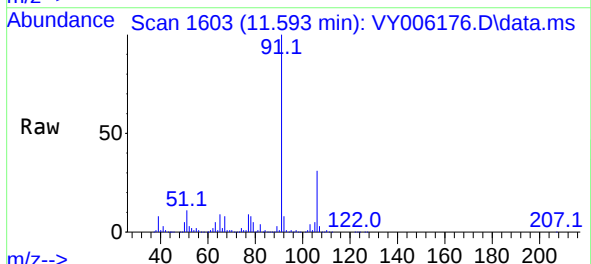
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Ion Ratio Lower Upper  
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82 49.7 43.0 64.4  
119 31.4 25.4 38.0

Manual Integrations  
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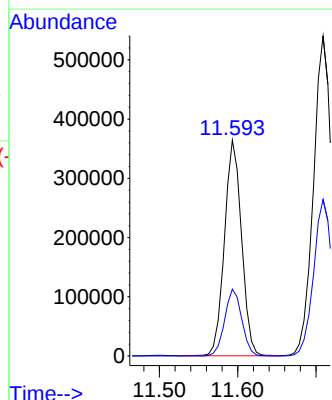
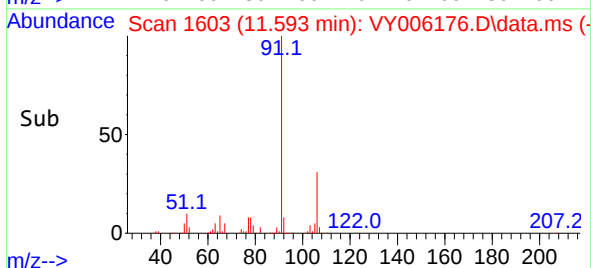
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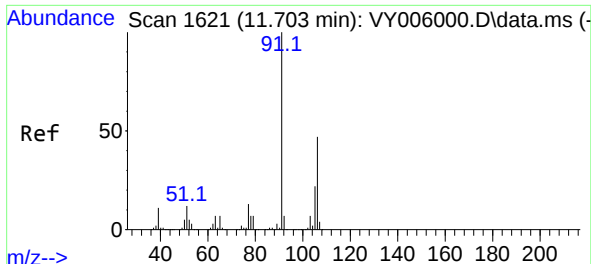


#67  
Ethyl Benzene  
Concen: 172.791 ug/l  
RT: 11.593 min Scan# 1603  
Delta R.T. 0.000 min  
Lab File: VY006176.D  
Acq: 27 Sep 2021 20:12

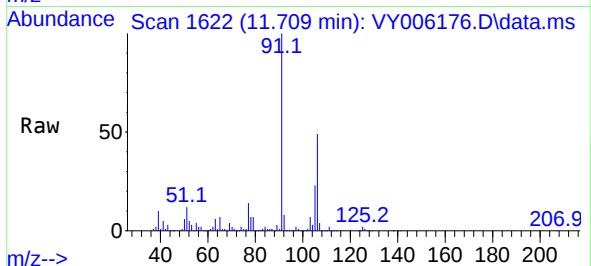


Tgt Ion: 91 Resp: 551542  
Ion Ratio Lower Upper  
91 100  
106 31.0 24.5 36.7

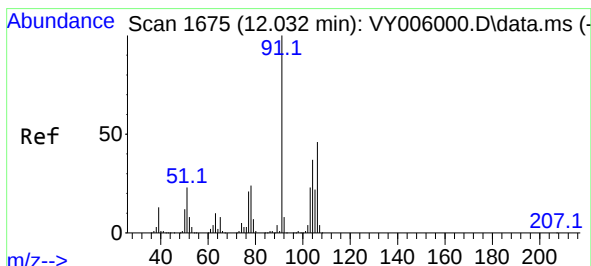
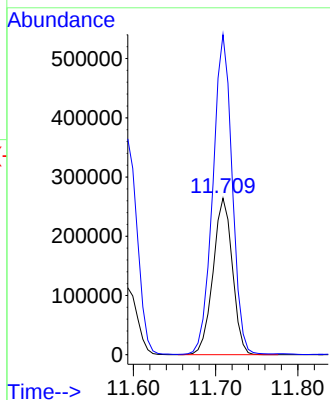
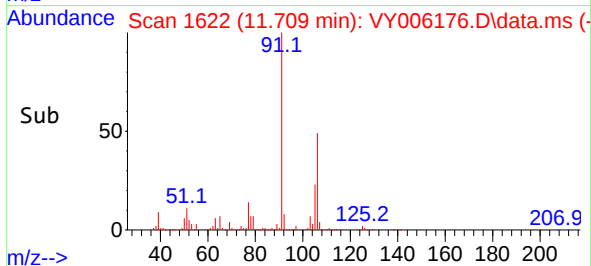




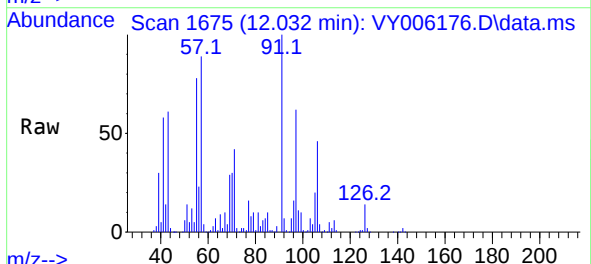
#68  
m/p-Xylenes  
Concen: 356.496 ug/l  
RT: 11.709 min Scan# 1622  
Delta R.T. 0.006 min  
Lab File: VY006176.D  
Acq: 27 Sep 2021 20:12



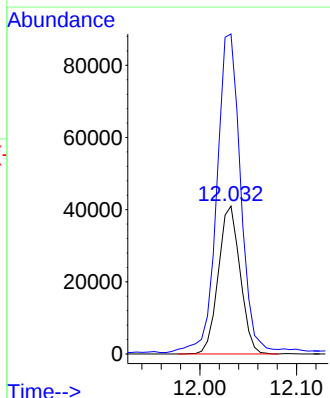
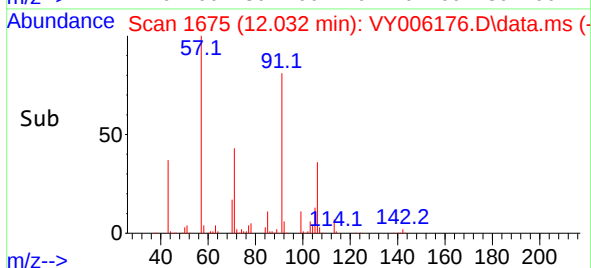
Tgt Ion:106 Resp: 431487  
Ion Ratio Lower Upper  
106 100  
91 204.3 166.6 249.8



#69  
o-Xylene  
Concen: 55.940 ug/l  
RT: 12.032 min Scan# 1675  
Delta R.T. 0.000 min  
Lab File: VY006176.D  
Acq: 27 Sep 2021 20:12



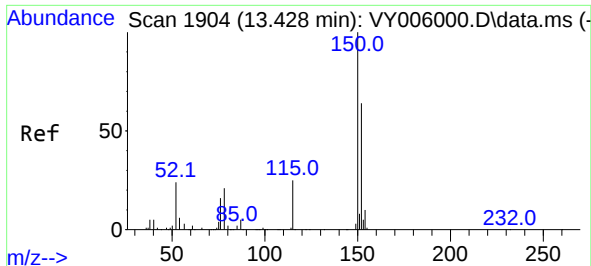
Tgt Ion:106 Resp: 63948  
Ion Ratio Lower Upper  
106 100  
91 234.5 110.3 331.0



Instrument :  
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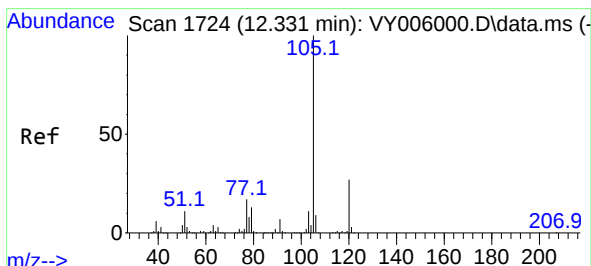
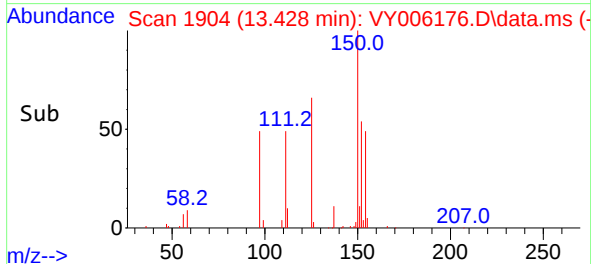
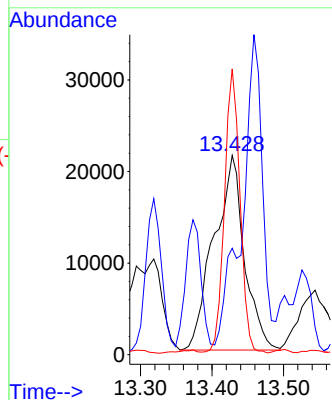
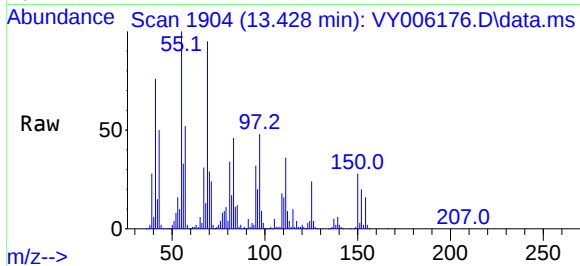
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.428 min Scan# 1904  
Delta R.T. 0.000 min  
Lab File: VY006176.D  
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Tgt Ion:152 Resp: 62933  
Ion Ratio Lower Upper  
152 100  
115 0.0 28.2 84.7#  
150 74.1 0.0 347.6

Instrument :  
MSVOA\_Y  
ClientSampleId :  
SP-LPA-01

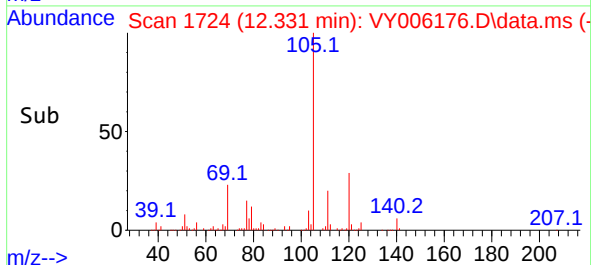
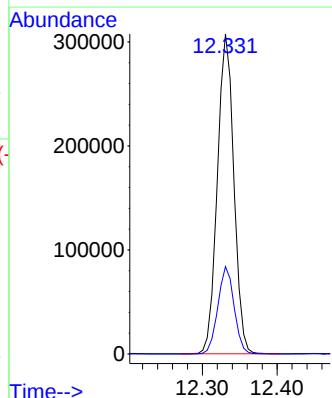
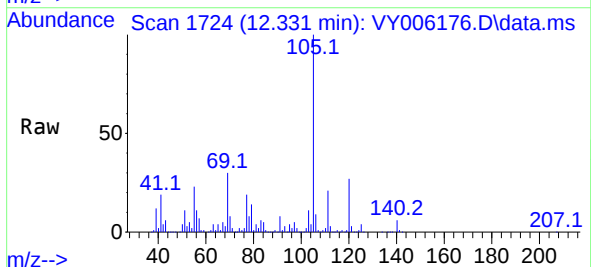
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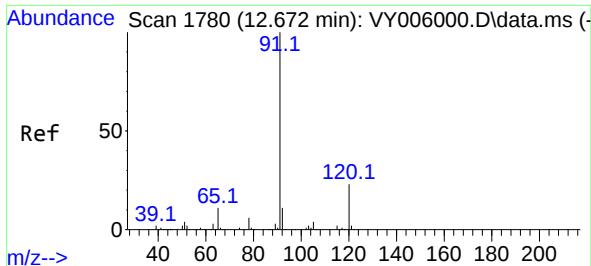
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#73  
Isopropylbenzene  
Concen: 95.663 ug/l  
RT: 12.331 min Scan# 1724  
Delta R.T. 0.000 min  
Lab File: VY006176.D  
Acq: 27 Sep 2021 20:12

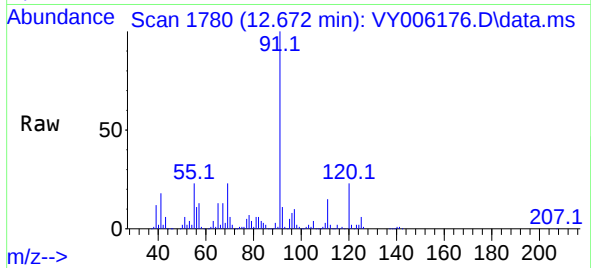
Tgt Ion:105 Resp: 471435  
Ion Ratio Lower Upper  
105 100  
120 26.9 13.4 40.2





#78  
n-propylbenzene  
Concen: 46.159 ug/l  
RT: 12.672 min Scan# 1780  
Delta R.T. 0.000 min  
Lab File: VY006176.D  
Acq: 27 Sep 2021 20:12

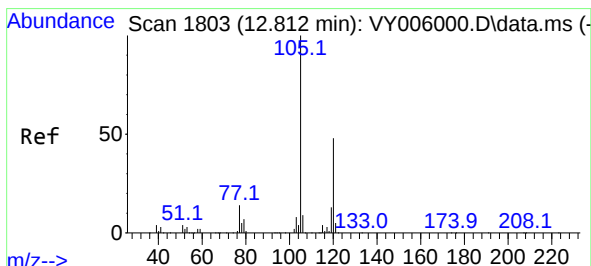
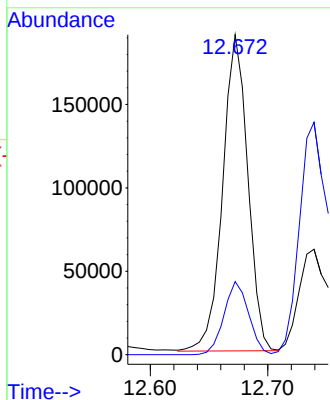
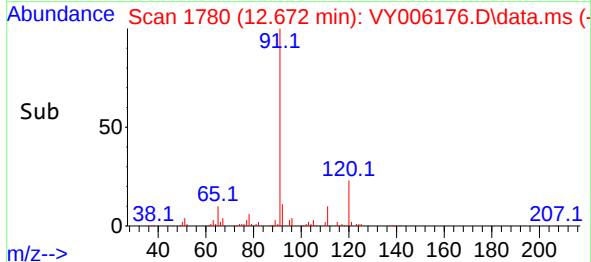
Instrument :  
MSVOA\_Y  
ClientSampled :  
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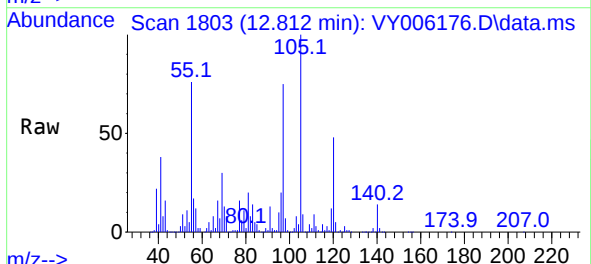
Tgt Ion: 91 Resp: 281447  
Ion Ratio Lower Upper  
91 100  
120 22.7 11.3 33.9

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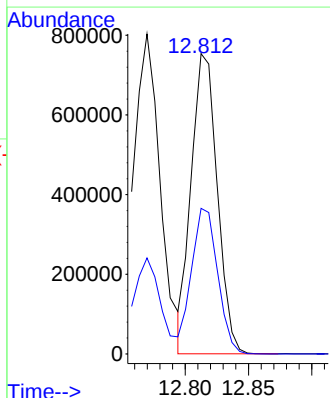
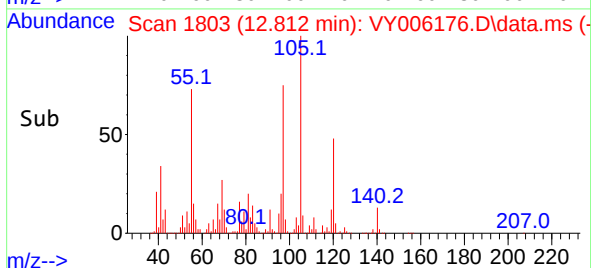
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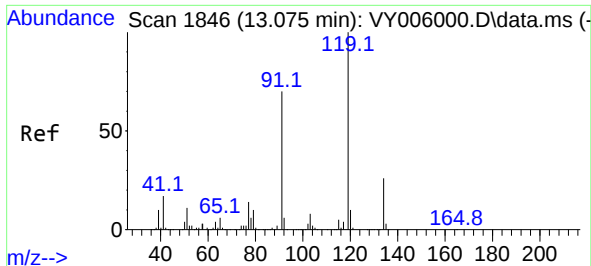


#80  
1,3,5-Trimethylbenzene  
Concen: 264.498 ug/l  
RT: 12.812 min Scan# 1803  
Delta R.T. 0.000 min  
Lab File: VY006176.D  
Acq: 27 Sep 2021 20:12

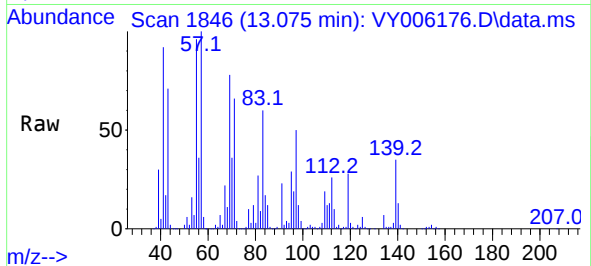


Tgt Ion: 105 Resp: 1081036  
Ion Ratio Lower Upper  
105 100  
120 48.6 24.4 73.4

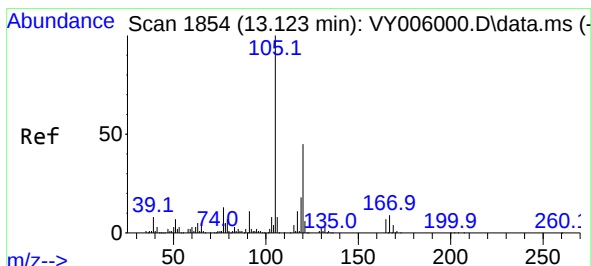
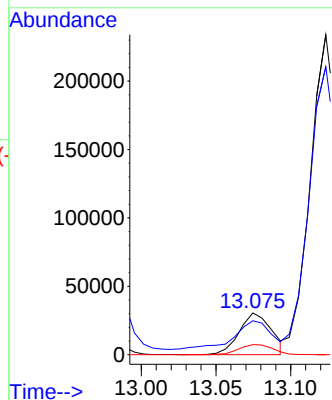
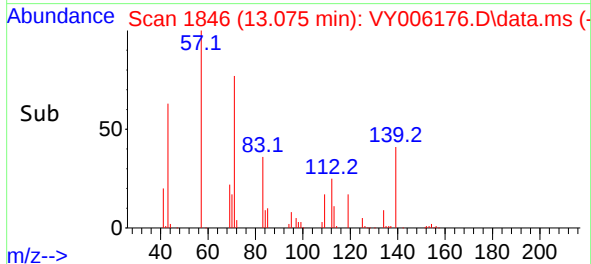




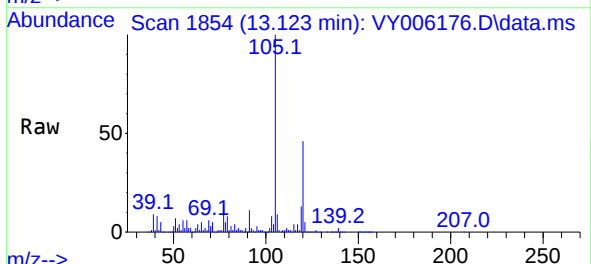
#83  
tert-Butylbenzene  
Concen: 13.081 ug/l  
RT: 13.075 min Scan# 1846  
Delta R.T. 0.000 min  
Lab File: VY006176.D  
Acq: 27 Sep 2021 20:12



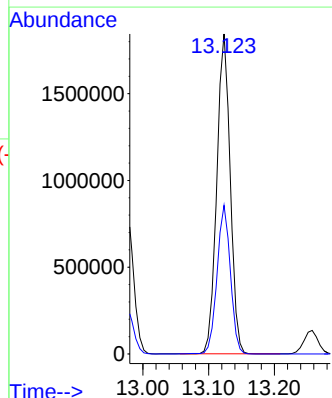
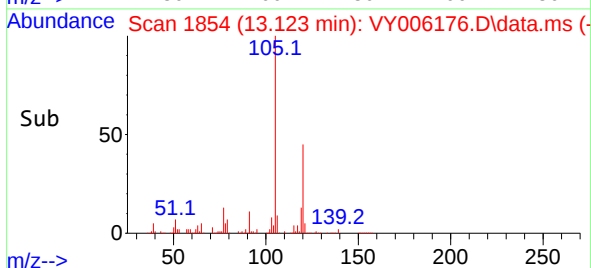
Tgt Ion:119 Resp: 45728  
Ion Ratio Lower Upper  
119 100  
91 77.2 34.8 104.4  
134 25.6 13.3 39.9



#84  
1,2,4-Trimethylbenzene  
Concen: 646.070 ug/l  
RT: 13.123 min Scan# 1854  
Delta R.T. 0.000 min  
Lab File: VY006176.D  
Acq: 27 Sep 2021 20:12



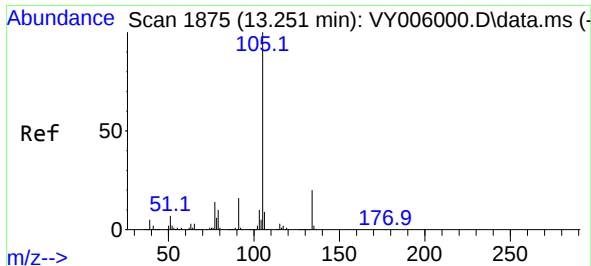
Tgt Ion:105 Resp: 2619748  
Ion Ratio Lower Upper  
105 100  
120 46.2 22.3 66.9



Instrument :  
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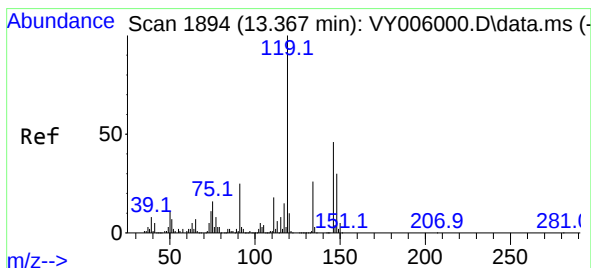
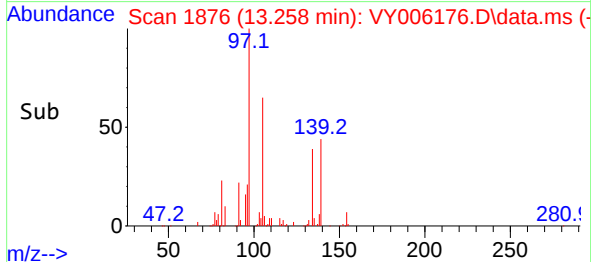
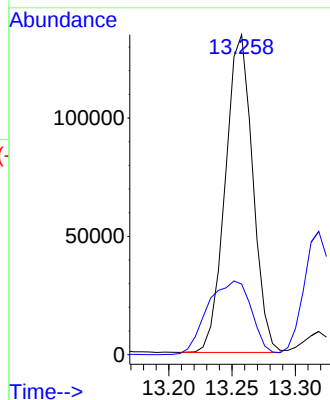
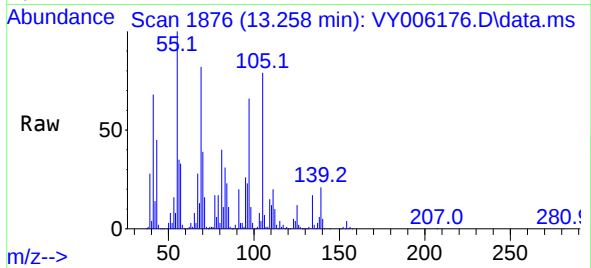
#85  
 sec-Butylbenzene  
 Concen: 38.657 ug/l  
 RT: 13.258 min Scan# 1876  
 Delta R.T. 0.006 min  
 Lab File: VY006176.D  
 Acq: 27 Sep 2021 20:12

Tgt Ion:105 Resp: 202286  
 Ion Ratio Lower Upper  
 105 100  
 134 37.4 10.2 30.4#

Instrument :  
 MSVOA\_Y  
 ClientSampled :  
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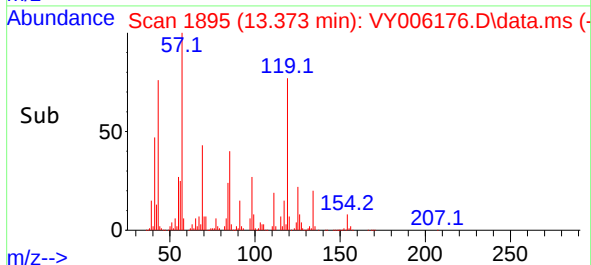
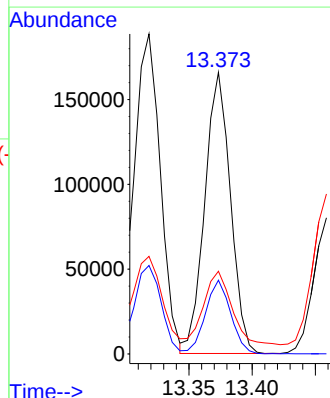
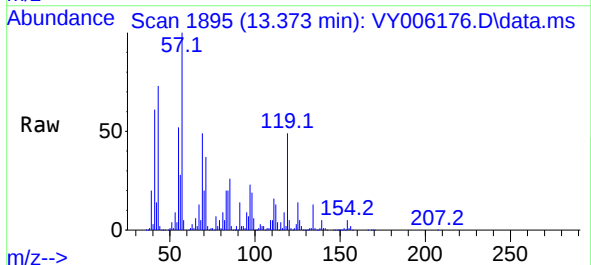
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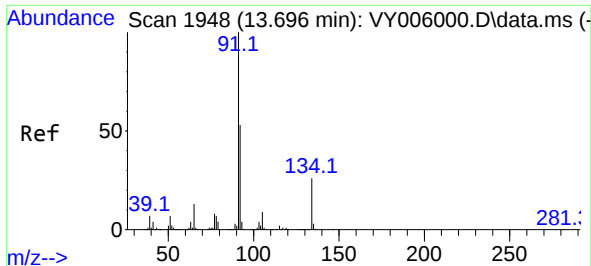
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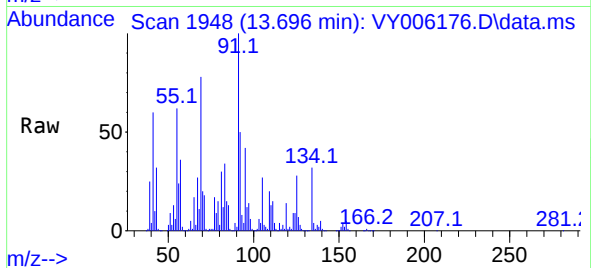
#86  
 p-Isopropyltoluene  
 Concen: 52.385 ug/l  
 RT: 13.373 min Scan# 1895  
 Delta R.T. 0.006 min  
 Lab File: VY006176.D  
 Acq: 27 Sep 2021 20:12

Tgt Ion:119 Resp: 234028  
 Ion Ratio Lower Upper  
 119 100  
 134 25.9 13.2 39.5  
 91 28.2 12.4 37.2

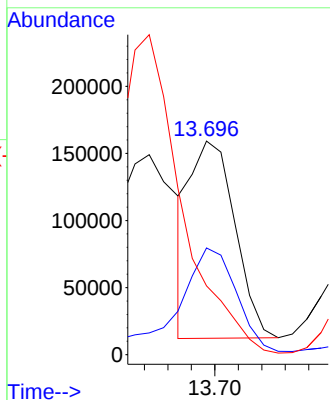
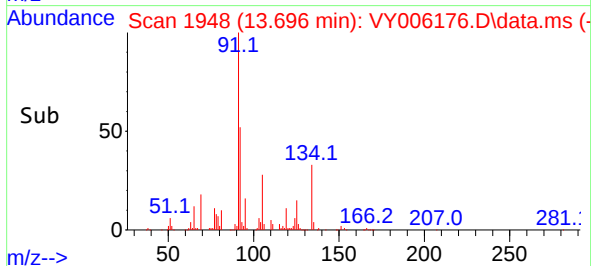




#89  
n-Butylbenzene  
Concen: 46.496 ug/l  
RT: 13.696 min Scan# 1948  
Delta R.T. 0.000 min  
Lab File: VY006176.D  
Acq: 27 Sep 2021 20:12



Tgt Ion: 91 Resp: 194245  
Ion Ratio Lower Upper  
91 100  
92 67.2 26.3 78.9  
134 0.0 13.0 38.9#



Instrument :  
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ClientSampleId :  
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