

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY052721\  
 Data File : VY004902.D  
 Acq On : 27 May 2021 15:47  
 Operator : SY/MD  
 Sample : M2535-04  
 Misc : 6.68G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 GHOST-4D

Manual Integrations  
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 5/28/2021 6:28:03 PM

Quant Time: May 27 15:58:02 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y051021S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 11 04:13:44 2021  
 Response via : Initial Calibration

| Compound                    | R.T.           | QIon | Response           | Conc    | Units  | Dev(Min) |
|-----------------------------|----------------|------|--------------------|---------|--------|----------|
| -----                       |                |      |                    |         |        |          |
| Internal Standards          |                |      |                    |         |        |          |
| 1) Pentafluorobenzene       | 7.801          | 168  | 256230             | 50.00   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.697          | 114  | 448706             | 50.00   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.495         | 117  | 395975             | 50.00   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.428         | 152  | 151223             | 50.00   | ug/l   | 0.00     |
|                             |                |      |                    |         |        |          |
| System Monitoring Compounds |                |      |                    |         |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.148          | 65   | 152805             | 50.10   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 50 - 163 |      | Recovery = 100.20% |         |        |          |
| 35) Dibromofluoromethane    | 7.728          | 113  | 114918             | 46.78   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 54 - 147 |      | Recovery = 93.56%  |         |        |          |
| 50) Toluene-d8              | 10.185         | 98   | 545628             | 49.17   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 49 - 140 |      | Recovery = 98.34%  |         |        |          |
| 62) 4-Bromofluorobenzene    | 12.483         | 95   | 174007             | 46.46   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 25 - 144 |      | Recovery = 92.92%  |         |        |          |
|                             |                |      |                    |         |        |          |
| Target Compounds            |                |      |                    |         | Qvalue |          |
| 16) Acetone                 | 3.948          | 43   | 1049080            | 1531.40 | ug/l # | 58       |
| 25) 2-Butanone              | 6.996          | 43   | 66474              | 54.62   | ug/l # | 68       |
| 31) Cyclohexane             | 7.789          | 56   | 290994             | 58.94   | ug/l   | 94       |
| 39) Methylcyclohexane       | 9.185          | 83   | 103690             | 20.68   | ug/l   | 93       |
| 40) Benzene                 | 8.167          | 78   | 185304             | 14.25   | ug/l   | 100      |
| 52) Toluene                 | 10.252         | 92   | 17833              | 2.17    | ug/l   | 100      |
| 67) Ethyl Benzene           | 11.593         | 91   | 509063             | 33.62   | ug/l   | 98       |
| 68) m/p-Xylenes             | 11.703         | 106  | 893632             | 157.08  | ug/l   | 99       |
| 69) o-Xylene                | 12.032         | 106  | 40118              | 7.55    | ug/l   | 95       |
| 73) Isopropylbenzene        | 12.331         | 105  | 202326             | 17.74   | ug/l   | 98       |
| 78) n-propylbenzene         | 12.672         | 91   | 770297             | 55.33   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene  | 12.812         | 105  | 921951             | 97.31   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene  | 13.123         | 105  | 4440415            | 468.24  | ug/l   | 99       |
| 85) sec-Butylbenzene        | 13.257         | 105  | 61784m             | 5.25    | ug/l   |          |
| 86) p-Isopropyltoluene      | 13.373         | 119  | 44437m             | 4.36    | ug/l   |          |
| 89) n-Butylbenzene          | 13.696         | 91   | 203234             | 20.39   | ug/l # | 68       |
| 95) Naphthalene             | 15.239         | 128  | 1471063            | 236.76  | ug/l   | 99       |
| -----                       |                |      |                    |         |        |          |

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

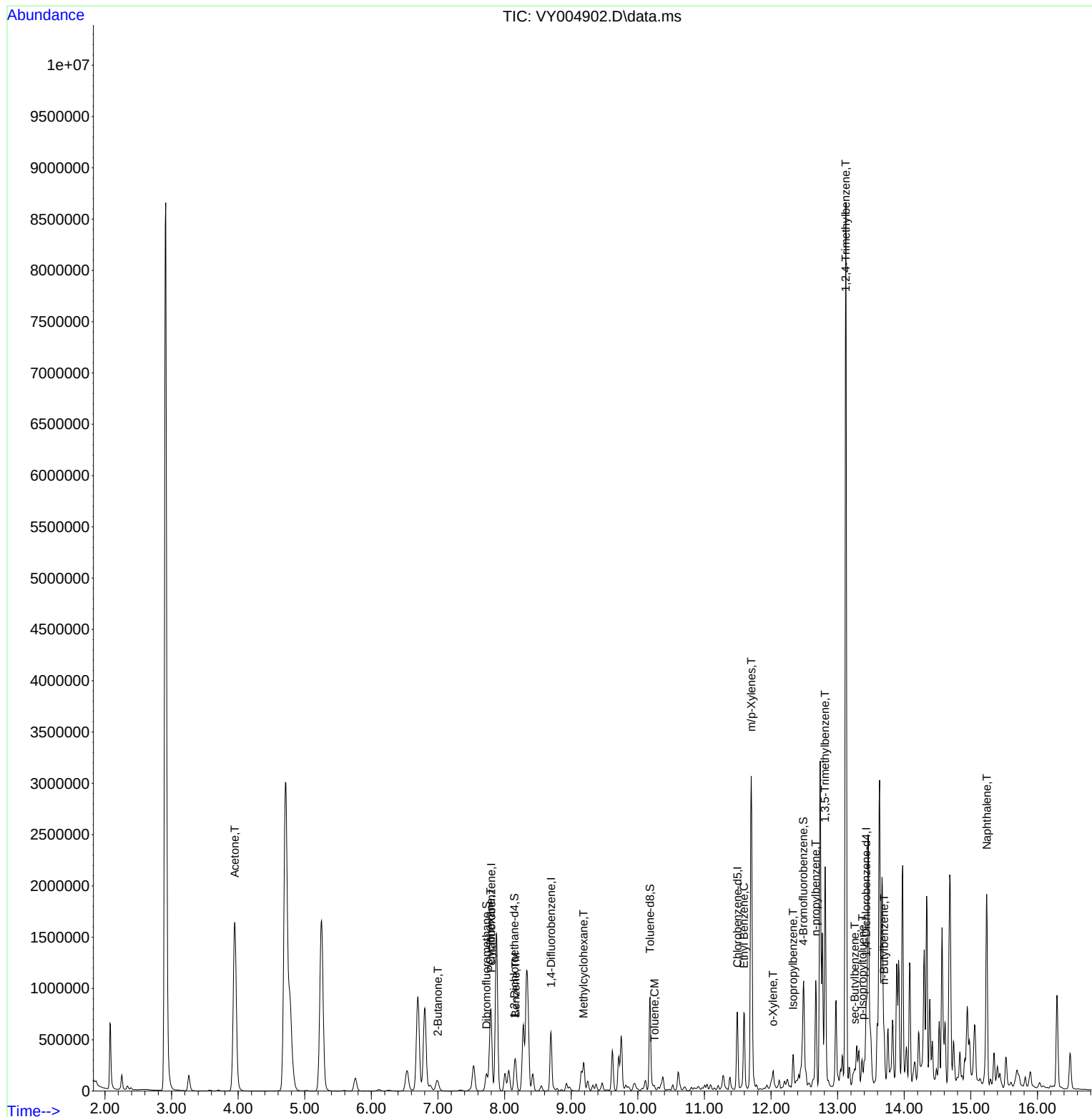
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Data File : VY004902.D  
Acq On : 27 May 2021 15:47  
Operator : SY/MD  
Sample : M2535-04  
Misc : 6.68G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 14 Sample Multiplier: 1

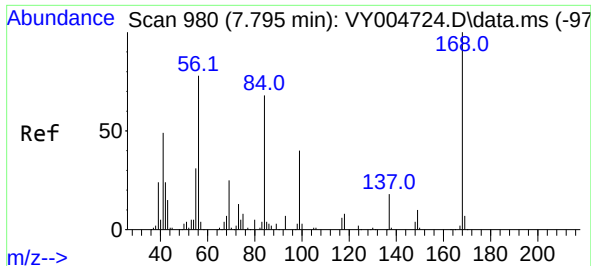
Instrument :  
MSVOA\_Y  
ClientSampleId :  
GHOST-4D

Manual Integrations  
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Quant Time: May 27 15:58:02 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y051021S.M  
Quant Title : SW846 8260  
QLast Update : Tue May 11 04:13:44 2021  
Response via : Initial Calibration





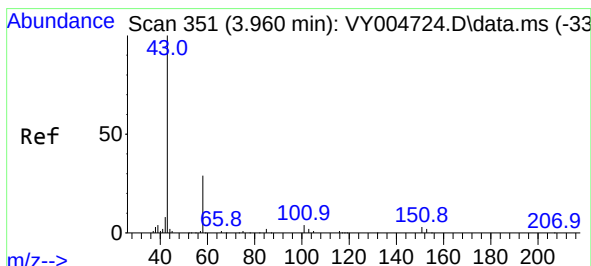
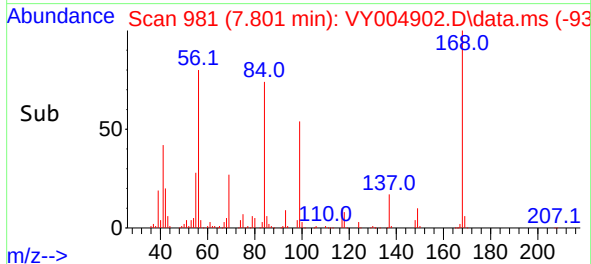
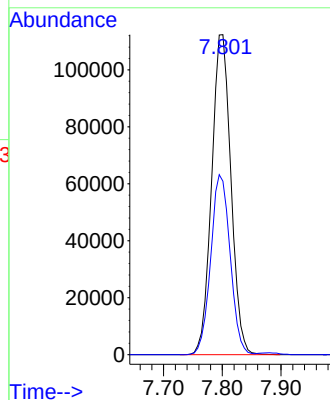
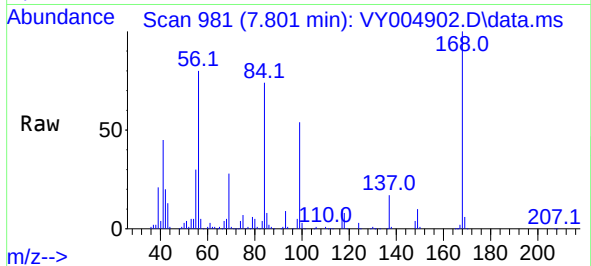
#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 7.801 min Scan# 981  
Delta R.T. 0.006 min  
Lab File: VY004902.D  
Acq: 27 May 2021 15:47

Tgt Ion:168 Resp: 256230  
Ion Ratio Lower Upper  
168 100  
99 54.2 45.6 68.4

Instrument :  
MSVOA\_Y  
ClientSampled :  
GHOST-4D

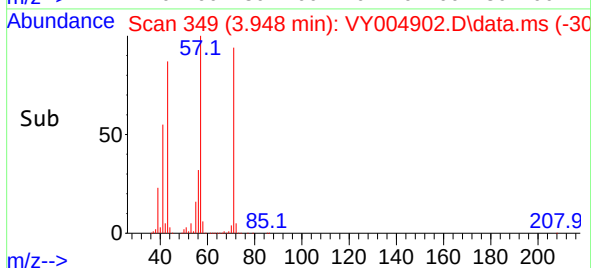
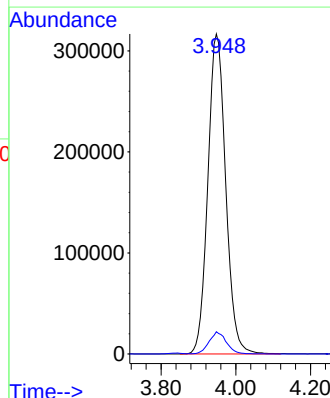
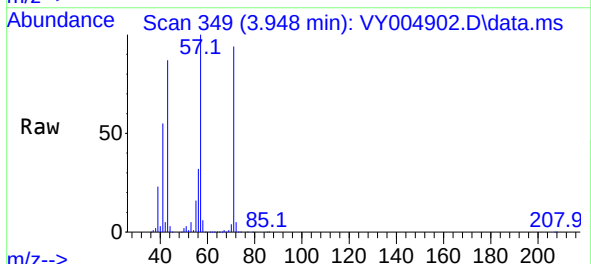
Manual Integrations  
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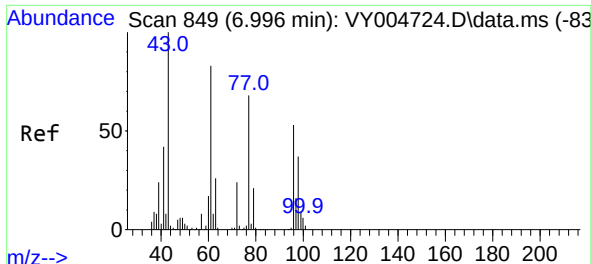
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#16  
Acetone  
Concen: 1531.40 ug/l  
RT: 3.948 min Scan# 349  
Delta R.T. -0.012 min  
Lab File: VY004902.D  
Acq: 27 May 2021 15:47

Tgt Ion: 43 Resp: 1049080  
Ion Ratio Lower Upper  
43 100  
58 6.9 23.6 35.4#





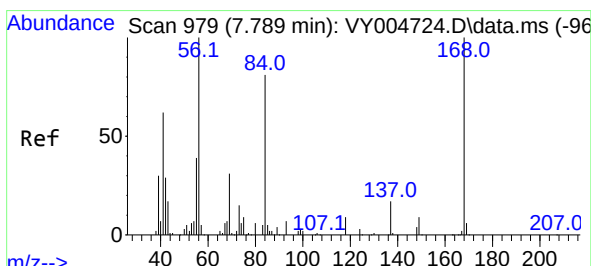
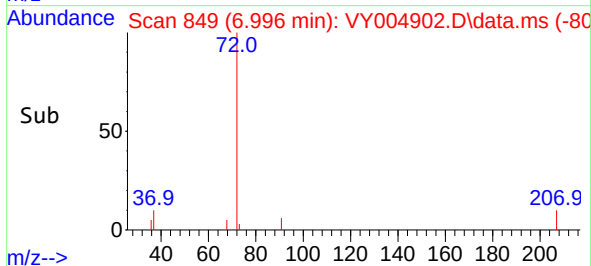
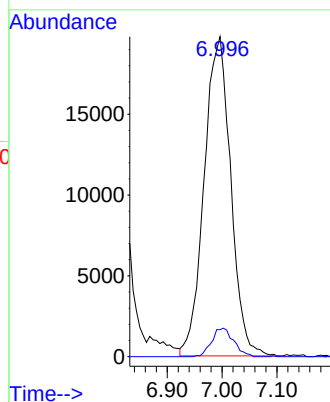
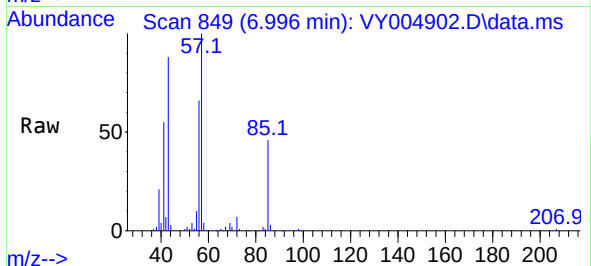
#25  
2-Butanone  
Concen: 54.62 ug/l  
RT: 6.996 min Scan# 849  
Delta R.T. -0.000 min  
Lab File: VY004902.D  
Acq: 27 May 2021 15:47

Tgt Ion: 43 Resp: 66474  
Ion Ratio Lower Upper  
43 100  
72 8.5 19.4 29.0#

Instrument :  
MSVOA\_Y  
ClientSampleId :  
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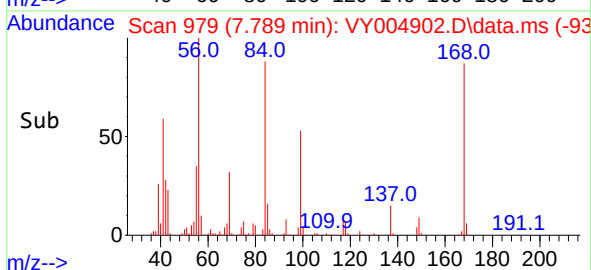
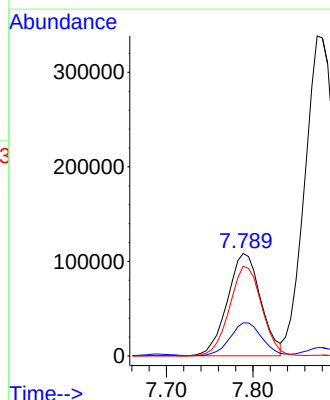
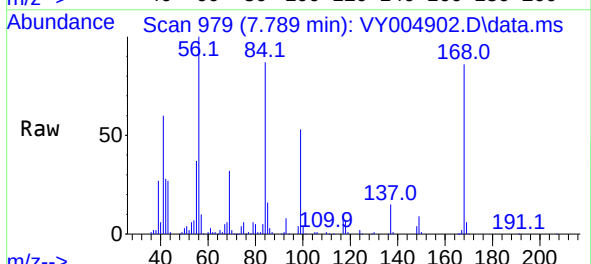
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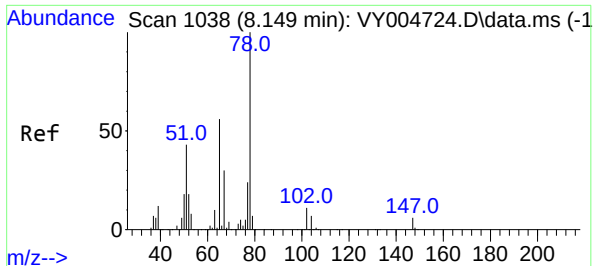
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#31  
Cyclohexane  
Concen: 58.94 ug/l  
RT: 7.789 min Scan# 979  
Delta R.T. -0.000 min  
Lab File: VY004902.D  
Acq: 27 May 2021 15:47

Tgt Ion: 56 Resp: 290994  
Ion Ratio Lower Upper  
56 100  
69 31.7 24.4 36.6  
84 87.5 64.8 97.2





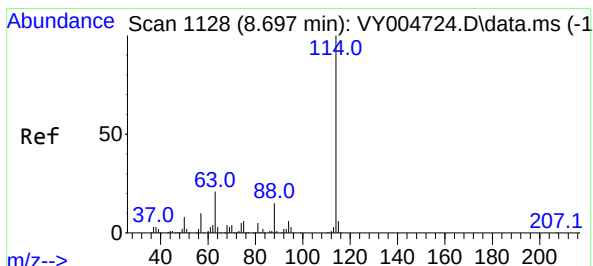
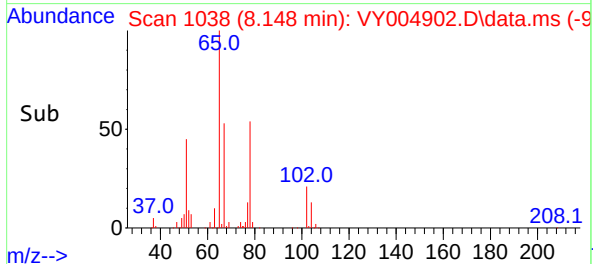
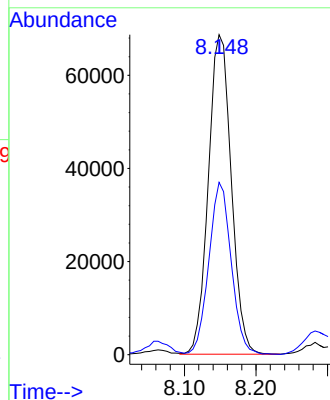
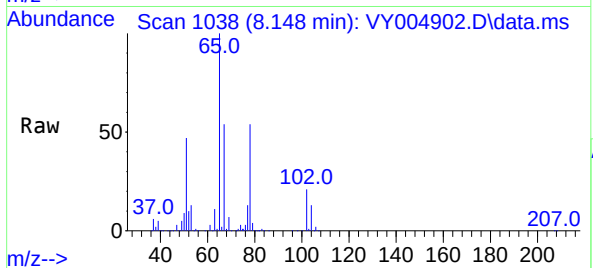
#33  
1,2-Dichloroethane-d4  
Concen: 50.10 ug/l  
RT: 8.148 min Scan# 1038  
Delta R.T. -0.000 min  
Lab File: VY004902.D  
Acq: 27 May 2021 15:47

Tgt Ion: 65 Resp: 152805  
Ion Ratio Lower Upper  
65 100  
67 52.4 0.0 108.0

Instrument :  
MSVOA\_Y  
ClientSampled :  
GHOST-4D

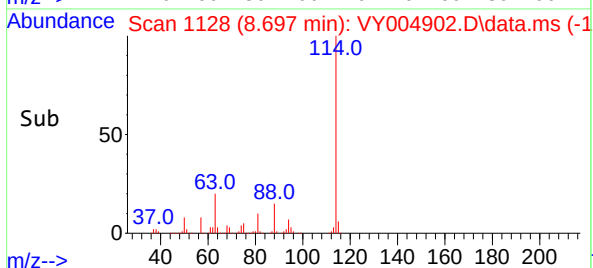
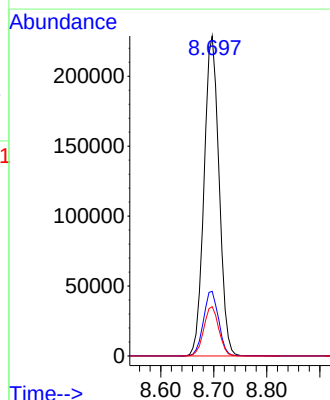
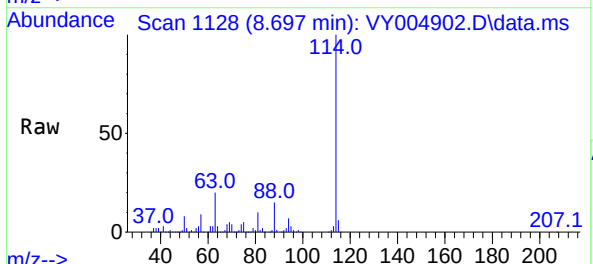
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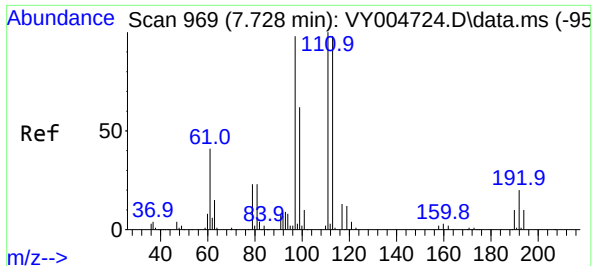
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#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 8.697 min Scan# 1128  
Delta R.T. -0.000 min  
Lab File: VY004902.D  
Acq: 27 May 2021 15:47

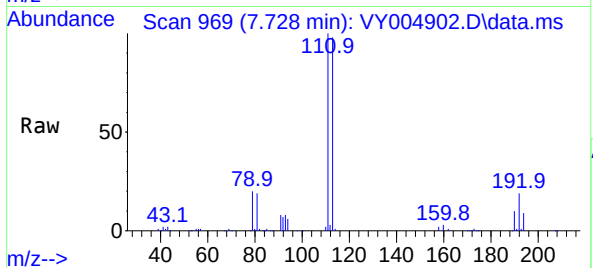
Tgt Ion: 114 Resp: 448706  
Ion Ratio Lower Upper  
114 100  
63 20.2 0.0 42.8  
88 15.4 0.0 31.0





#35  
Dibromofluoromethane  
Concen: 46.78 ug/l  
RT: 7.728 min Scan# 969  
Delta R.T. -0.000 min  
Lab File: VY004902.D  
Acq: 27 May 2021 15:47

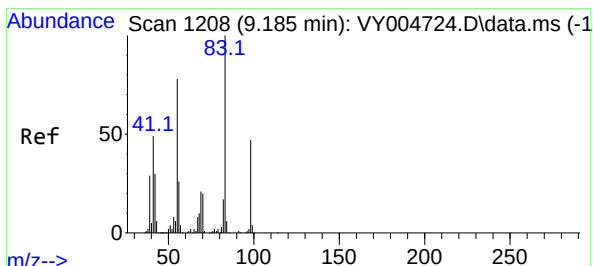
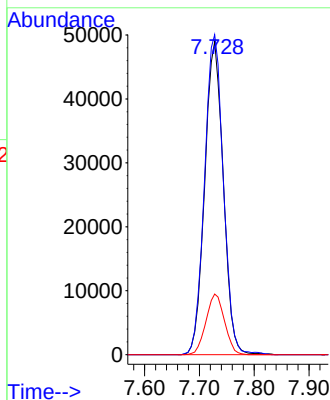
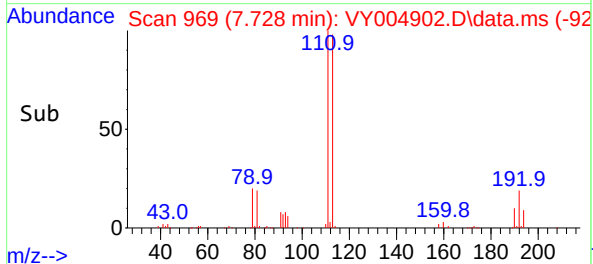
Instrument :  
MSVOA\_Y  
ClientSampleId :  
GHOST-4D



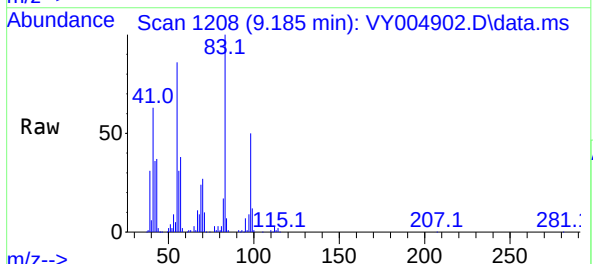
Tgt Ion: 113 Resp: 114918  
Ion Ratio Lower Upper  
113 100  
111 103.6 80.5 120.7  
192 19.4 15.0 22.6

Manual Integrations  
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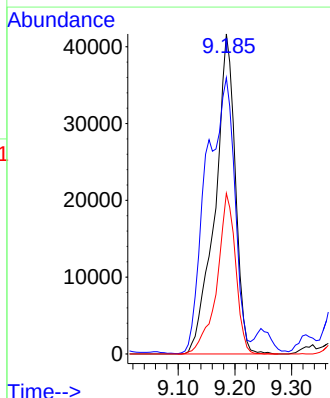
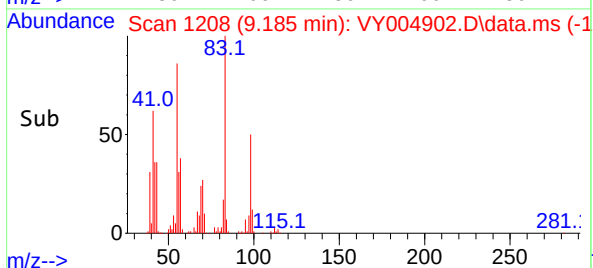
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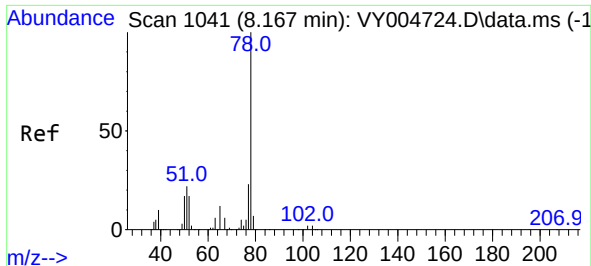


#39  
Methylcyclohexane  
Concen: 20.68 ug/l  
RT: 9.185 min Scan# 1208  
Delta R.T. -0.000 min  
Lab File: VY004902.D  
Acq: 27 May 2021 15:47



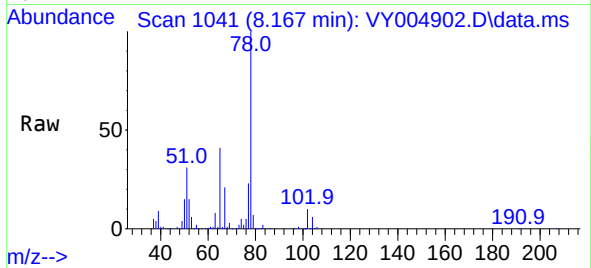
Tgt Ion: 83 Resp: 103690  
Ion Ratio Lower Upper  
83 100  
55 86.2 62.6 94.0  
98 50.2 37.8 56.6





#40  
Benzene  
Concen: 14.25 ug/l  
RT: 8.167 min Scan# 1041  
Delta R.T. -0.000 min  
Lab File: VY004902.D  
Acq: 27 May 2021 15:47

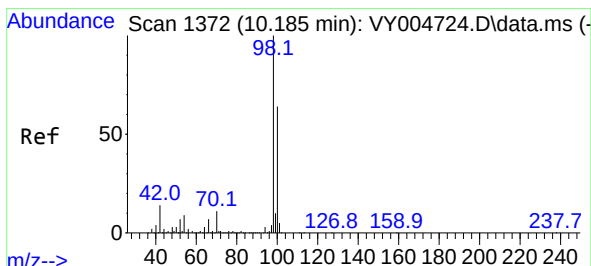
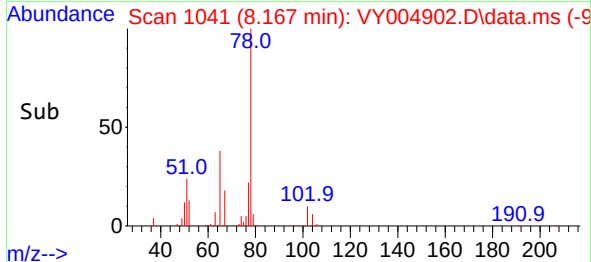
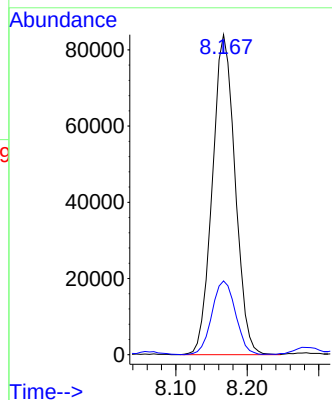
Instrument :  
MSVOA\_Y  
ClientSampleId :  
GHOST-4D



Tgt Ion: 78 Resp: 185304  
Ion Ratio Lower Upper  
78 100  
77 23.0 18.4 27.6

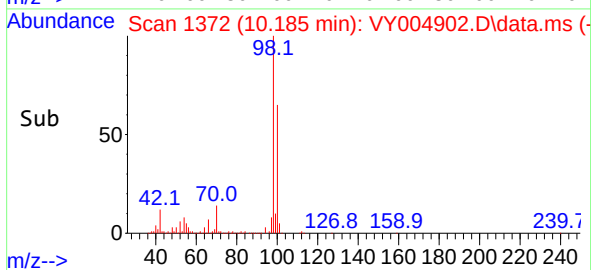
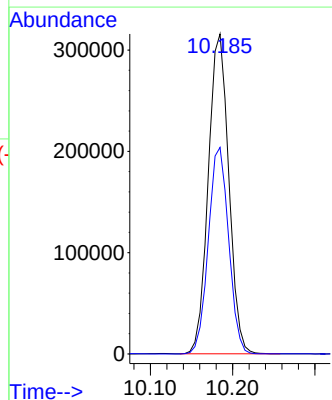
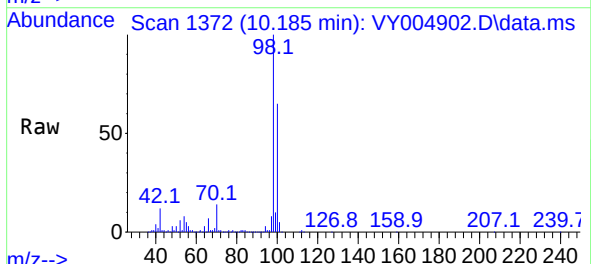
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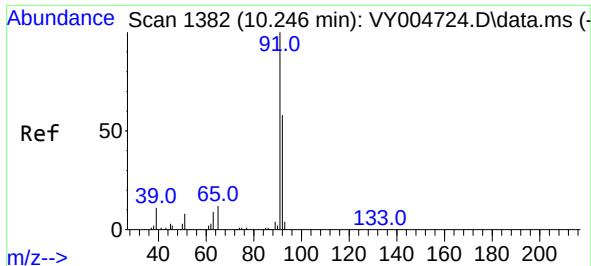
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#50  
Toluene-d8  
Concen: 49.17 ug/l  
RT: 10.185 min Scan# 1372  
Delta R.T. -0.000 min  
Lab File: VY004902.D  
Acq: 27 May 2021 15:47

Tgt Ion: 98 Resp: 545628  
Ion Ratio Lower Upper  
98 100  
100 64.1 51.5 77.3





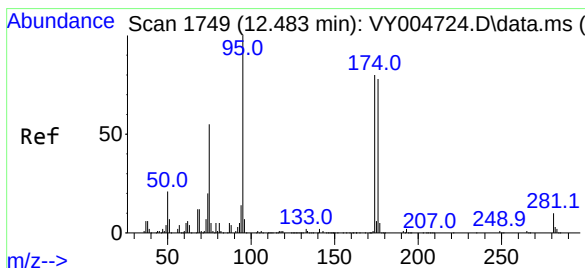
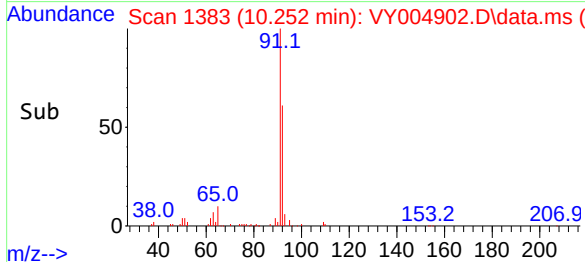
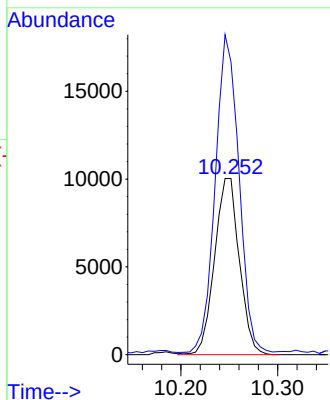
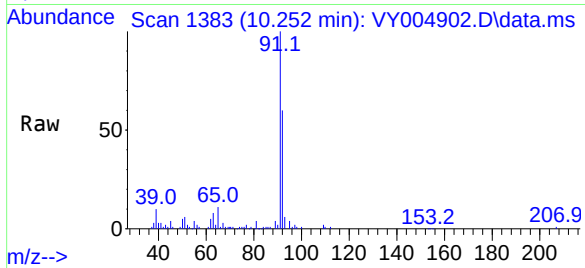
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Toluene  
Concen: 2.17 ug/l  
RT: 10.252 min Scan# 1383  
Delta R.T. 0.006 min  
Lab File: VY004902.D  
Acq: 27 May 2021 15:47

Tgt Ion: 92 Resp: 17833  
Ion Ratio Lower Upper  
92 100  
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Instrument :  
MSVOA\_Y  
ClientSampleId :  
GHOST-4D

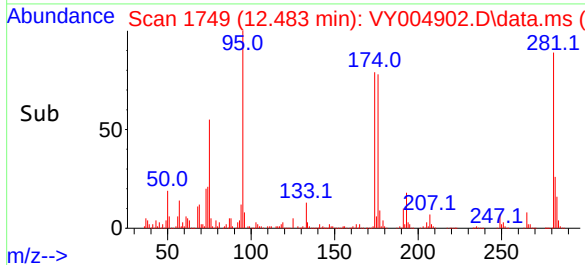
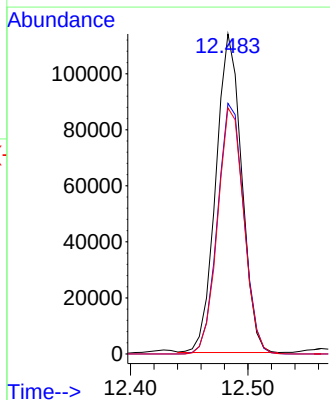
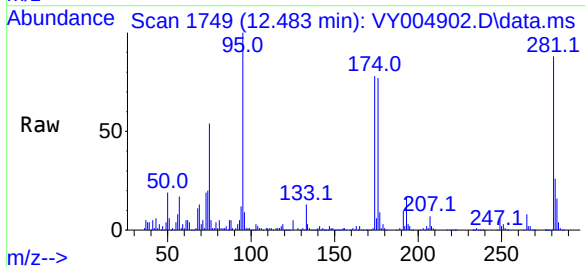
Manual Integrations  
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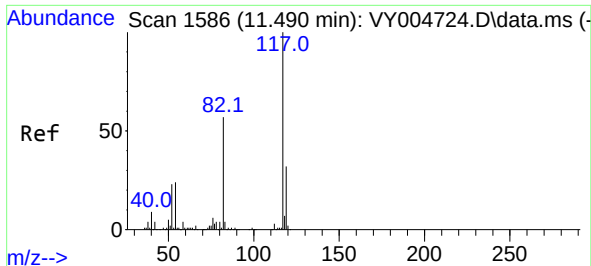


#62  
4-Bromofluorobenzene  
Concen: 46.46 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. -0.000 min  
Lab File: VY004902.D  
Acq: 27 May 2021 15:47

Tgt Ion: 95 Resp: 174007  
Ion Ratio Lower Upper  
95 100  
174 79.9 0.0 164.2  
176 78.1 0.0 159.0







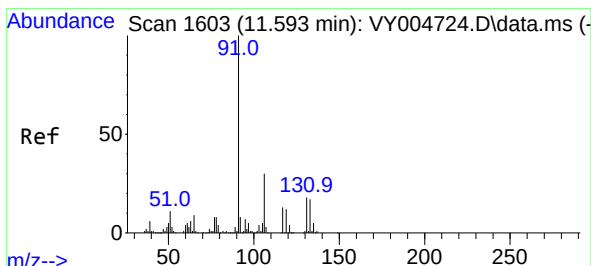
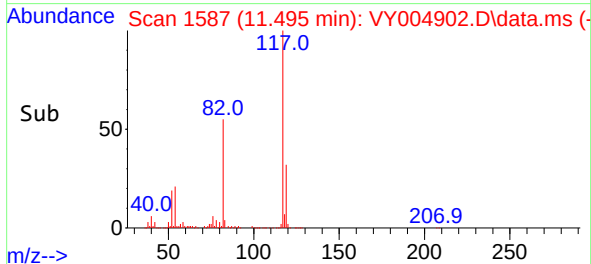
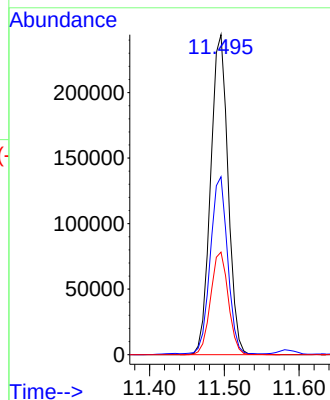
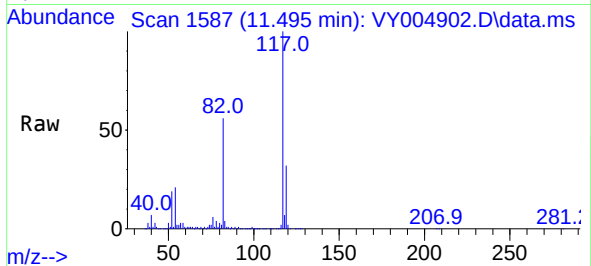
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.495 min Scan# 1587  
Delta R.T. 0.006 min  
Lab File: VY004902.D  
Acq: 27 May 2021 15:47

Tgt Ion: 117 Resp: 395975  
Ion Ratio Lower Upper  
117 100  
82 55.3 45.4 68.2  
119 32.0 25.8 38.6

Instrument :  
MSVOA\_Y  
ClientSampleId :  
GHOST-4D

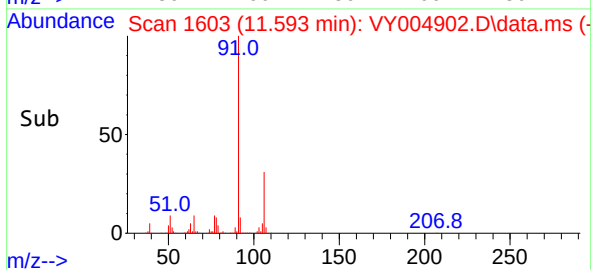
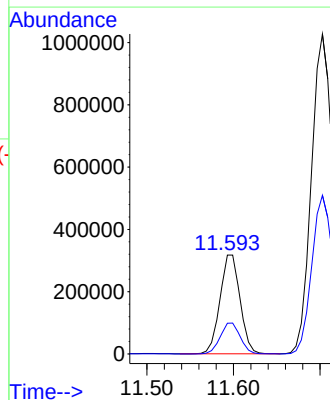
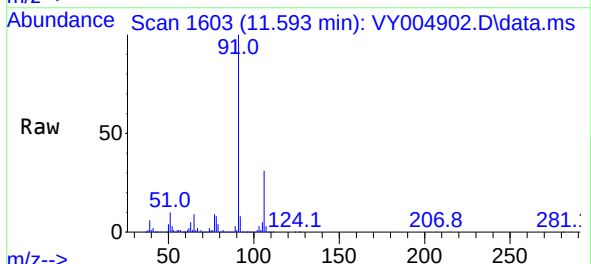
Manual Integrations  
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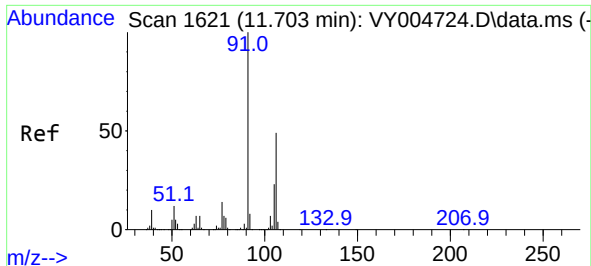
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#67  
Ethyl Benzene  
Concen: 33.62 ug/l  
RT: 11.593 min Scan# 1603  
Delta R.T. -0.000 min  
Lab File: VY004902.D  
Acq: 27 May 2021 15:47

Tgt Ion: 91 Resp: 509063  
Ion Ratio Lower Upper  
91 100  
106 31.0 24.0 36.0





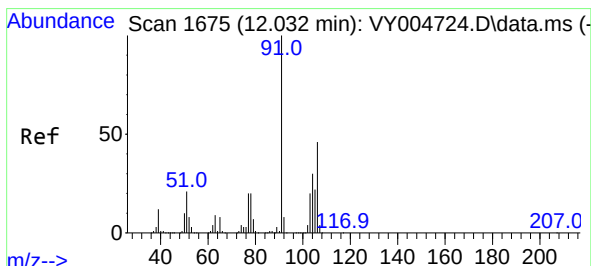
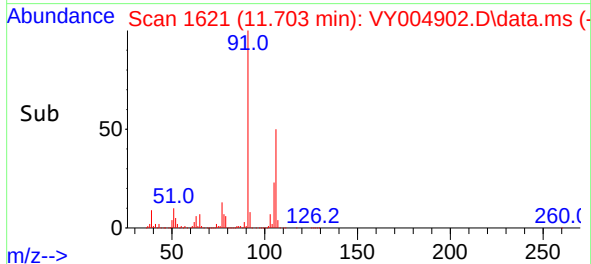
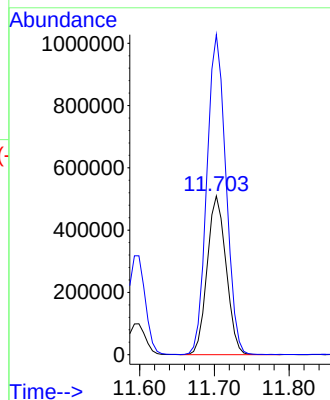
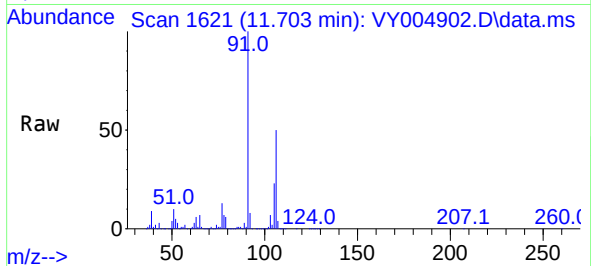
#68  
m/p-Xylenes  
Concen: 157.08 ug/l  
RT: 11.703 min Scan# 1621  
Delta R.T. -0.000 min  
Lab File: VY004902.D  
Acq: 27 May 2021 15:47

Tgt Ion:106 Resp: 893632  
Ion Ratio Lower Upper  
106 100  
91 202.9 163.6 245.4

Instrument :  
MSVOA\_Y  
ClientSampleId :  
GHOST-4D

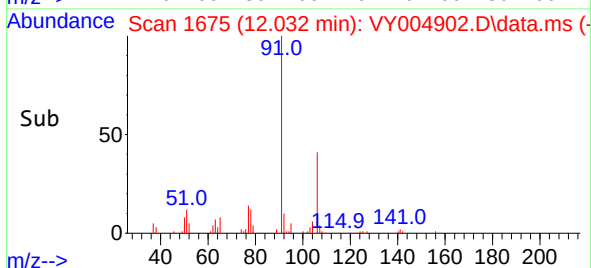
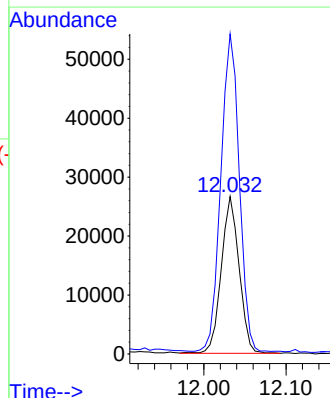
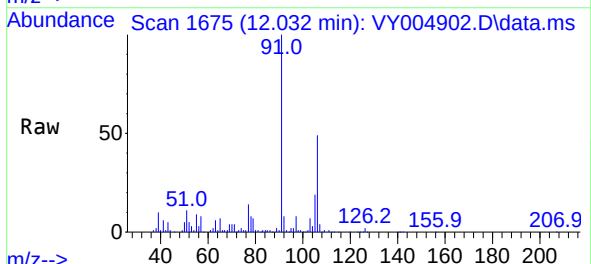
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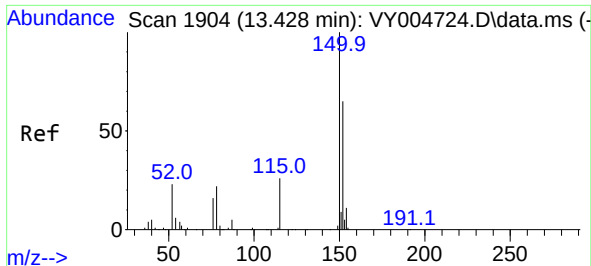
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#69  
o-Xylene  
Concen: 7.55 ug/l  
RT: 12.032 min Scan# 1675  
Delta R.T. -0.000 min  
Lab File: VY004902.D  
Acq: 27 May 2021 15:47

Tgt Ion:106 Resp: 40118  
Ion Ratio Lower Upper  
106 100  
91 209.2 108.9 326.7





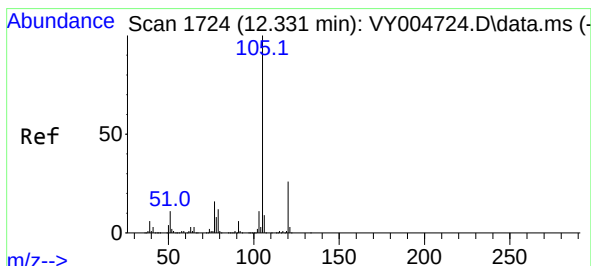
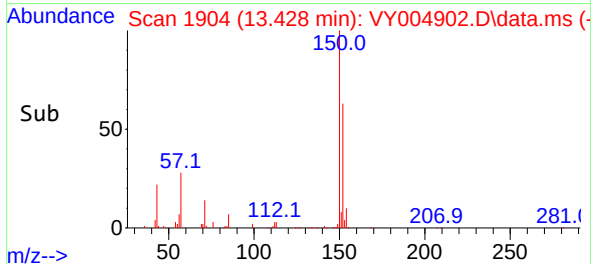
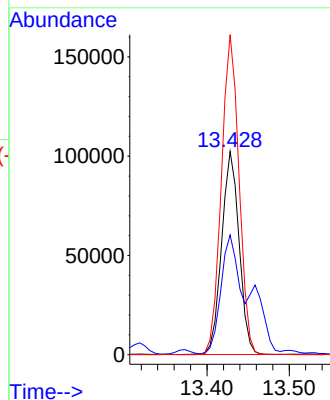
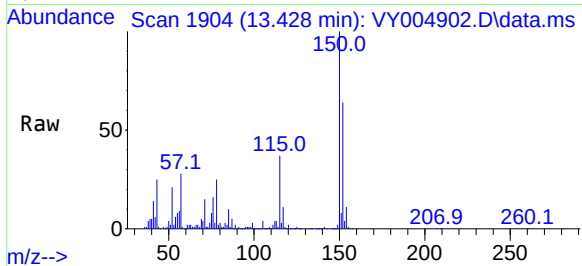
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.428 min Scan# 1904  
Delta R.T. -0.000 min  
Lab File: VY004902.D  
Acq: 27 May 2021 15:47

Tgt Ion:152 Resp: 151223  
Ion Ratio Lower Upper  
152 100  
115 62.8 29.4 88.3  
150 158.7 0.0 349.8

Instrument :  
MSVOA\_Y  
ClientSampleId :  
GHOST-4D

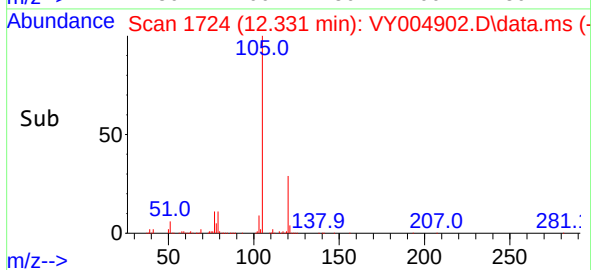
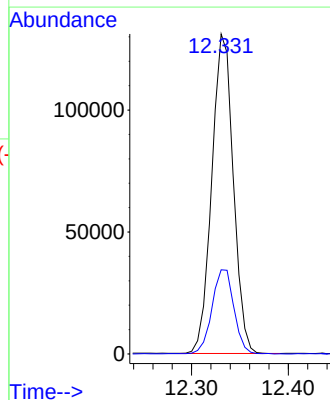
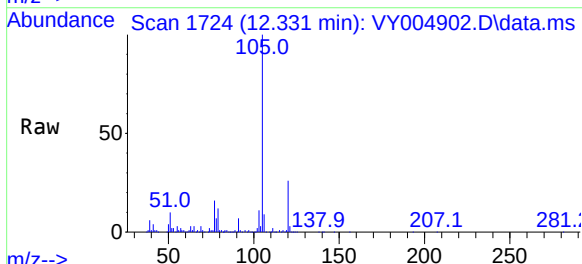
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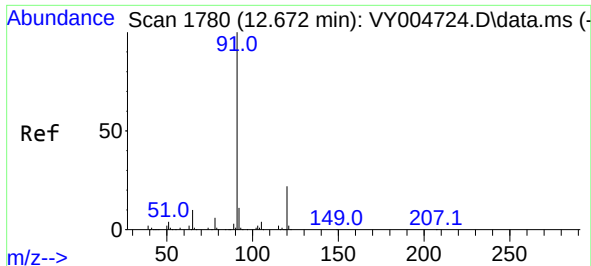
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#73  
Isopropylbenzene  
Concen: 17.74 ug/l  
RT: 12.331 min Scan# 1724  
Delta R.T. -0.000 min  
Lab File: VY004902.D  
Acq: 27 May 2021 15:47

Tgt Ion:105 Resp: 202326  
Ion Ratio Lower Upper  
105 100  
120 27.0 13.1 39.1





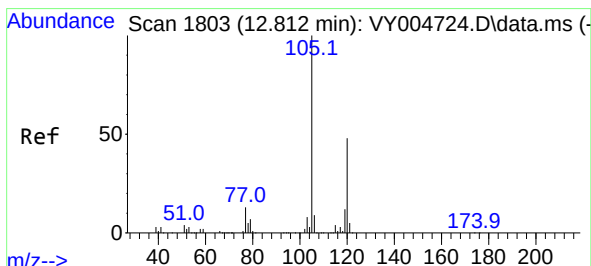
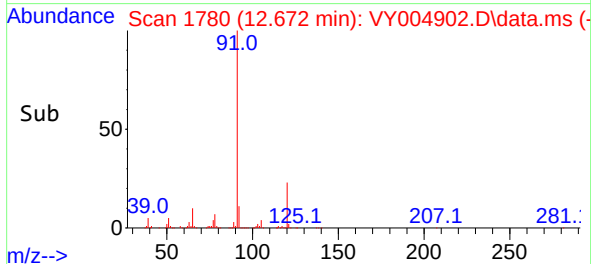
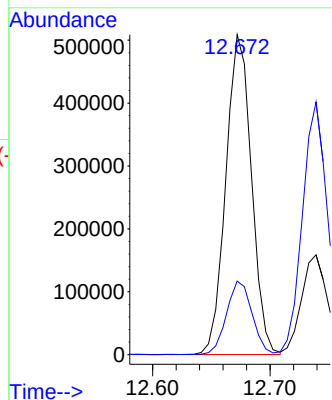
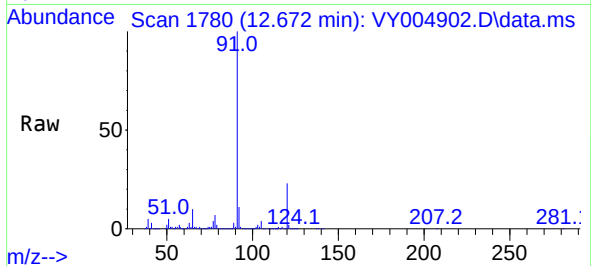
#78  
n-propylbenzene  
Concen: 55.33 ug/l  
RT: 12.672 min Scan# 1780  
Delta R.T. -0.000 min  
Lab File: VY004902.D  
Acq: 27 May 2021 15:47

Tgt Ion: 91 Resp: 770297  
Ion Ratio Lower Upper  
91 100  
120 22.9 11.1 33.3

Instrument :  
MSVOA\_Y  
ClientSampled :  
GHOST-4D

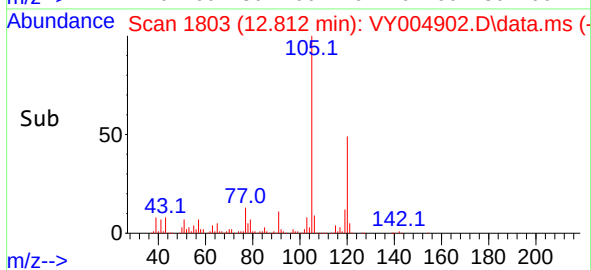
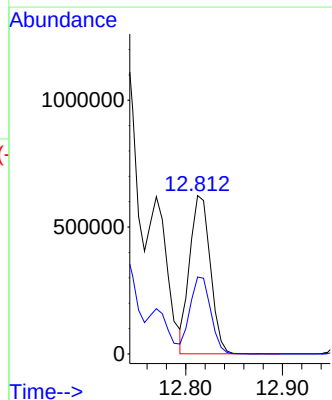
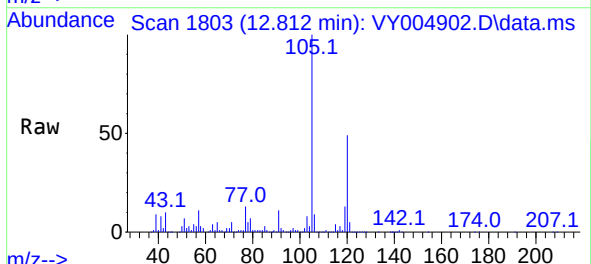
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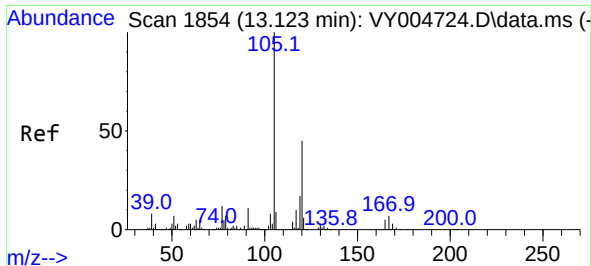
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#80  
1,3,5-Trimethylbenzene  
Concen: 97.31 ug/l  
RT: 12.812 min Scan# 1803  
Delta R.T. -0.000 min  
Lab File: VY004902.D  
Acq: 27 May 2021 15:47

Tgt Ion: 105 Resp: 921951  
Ion Ratio Lower Upper  
105 100  
120 48.7 24.0 72.0





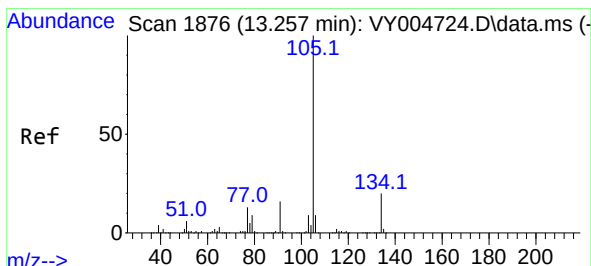
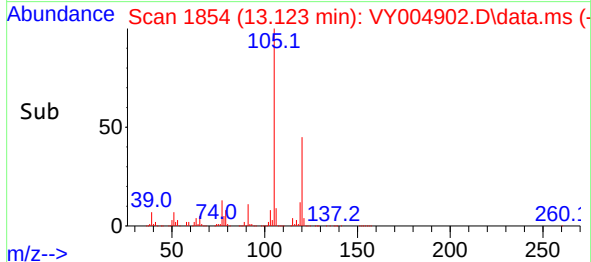
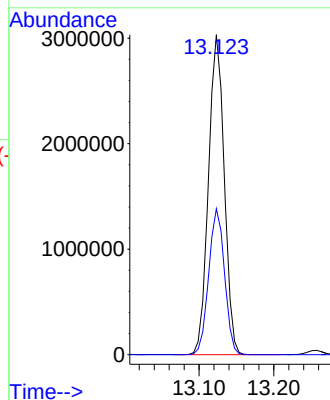
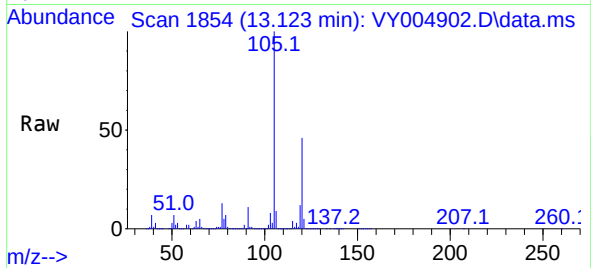
#84  
1,2,4-Trimethylbenzene  
Concen: 468.24 ug/l  
RT: 13.123 min Scan# 1854  
Delta R.T. -0.000 min  
Lab File: VY004902.D  
Acq: 27 May 2021 15:47

Tgt Ion:105 Resp: 4440415  
Ion Ratio Lower Upper  
105 100  
120 45.6 22.5 67.5

Instrument :  
MSVOA\_Y  
ClientSampleId :  
GHOST-4D

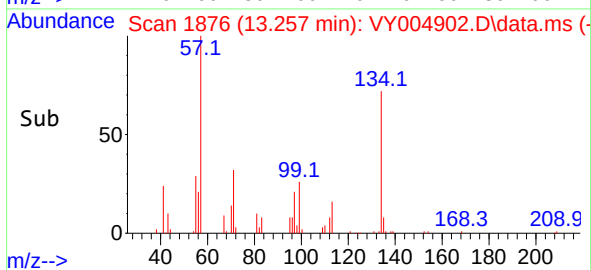
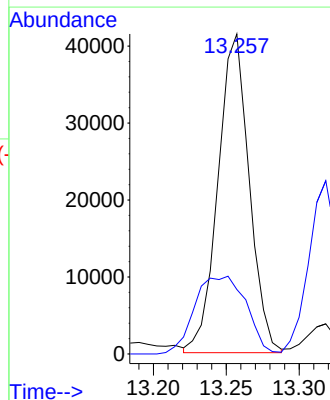
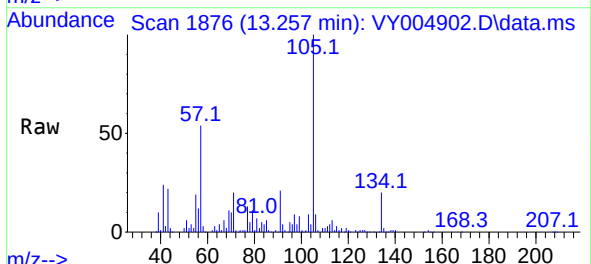
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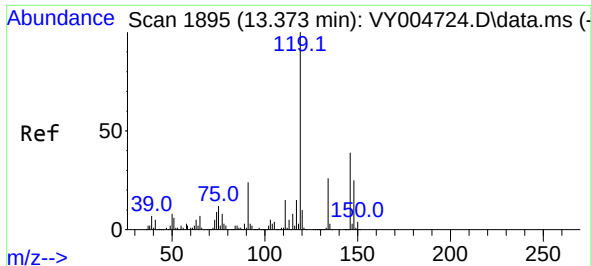
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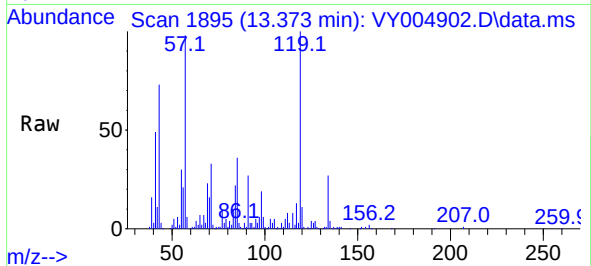
#85  
sec-Butylbenzene  
Concen: 5.25 ug/l m  
RT: 13.257 min Scan# 1876  
Delta R.T. -0.000 min  
Lab File: VY004902.D  
Acq: 27 May 2021 15:47

Tgt Ion:105 Resp: 61784  
Ion Ratio Lower Upper  
105 100  
134 0.0 10.0 29.8#

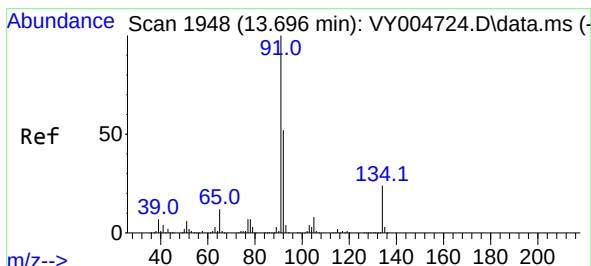
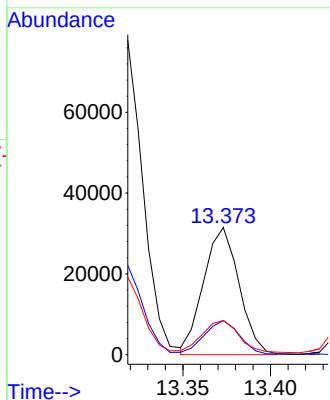
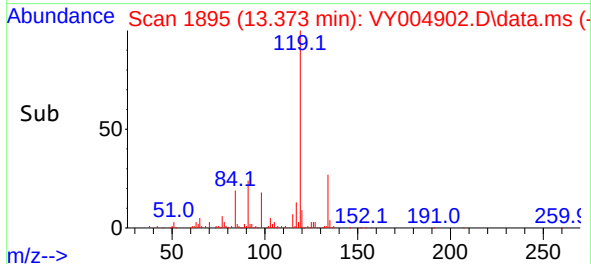




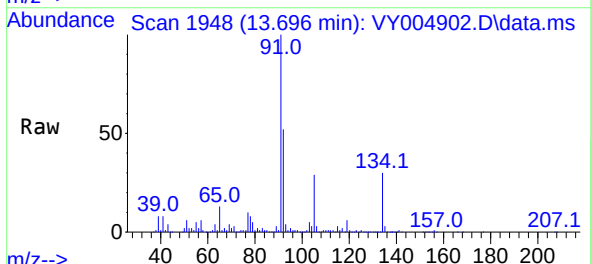
#86  
p-Isopropyltoluene  
Concen: 4.36 ug/l m  
RT: 13.373 min Scan# 1895  
Delta R.T. -0.000 min  
Lab File: VY004902.D  
Acq: 27 May 2021 15:47



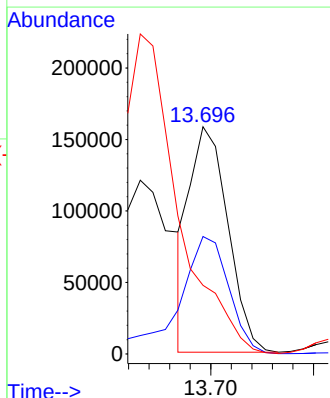
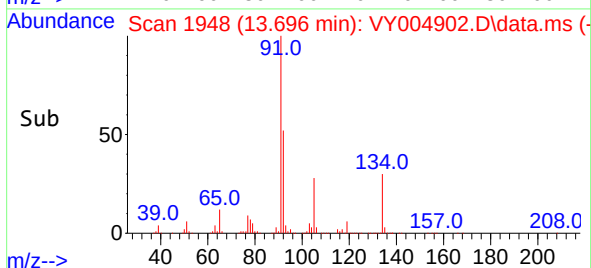
Tgt Ion: 119 Resp: 44437  
Ion Ratio Lower Upper  
119 100  
134 71.6 12.9 38.7#  
91 62.0 12.0 36.1#



#89  
n-Butylbenzene  
Concen: 20.39 ug/l  
RT: 13.696 min Scan# 1948  
Delta R.T. -0.000 min  
Lab File: VY004902.D  
Acq: 27 May 2021 15:47



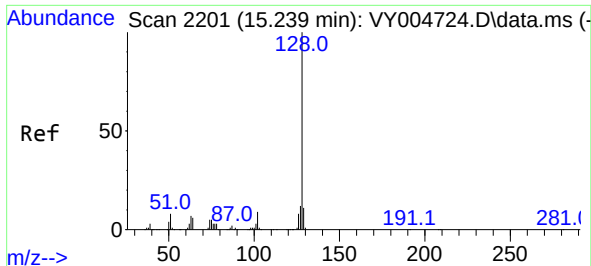
Tgt Ion: 91 Resp: 203234  
Ion Ratio Lower Upper  
91 100  
92 69.2 26.4 79.0  
134 0.0 12.6 37.6#



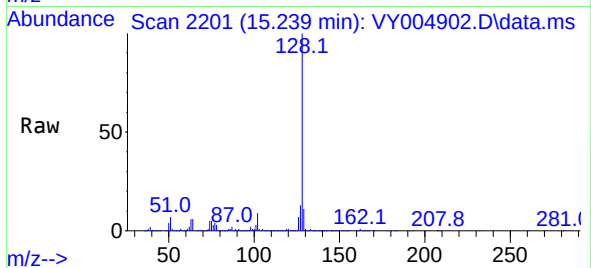
Instrument :  
MSVOA\_Y  
ClientSampled :  
GHOST-4D

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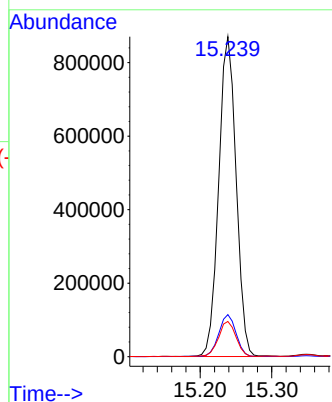
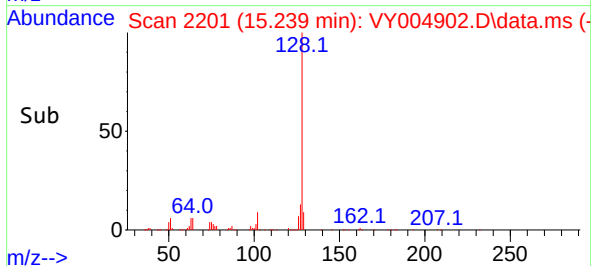


#95  
Naphthalene  
Concen: 236.76 ug/l  
RT: 15.239 min Scan# 2201  
Delta R.T. -0.000 min  
Lab File: VY004902.D  
Acq: 27 May 2021 15:47



Tgt Ion:128 Resp: 1471063  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 127 | 13.0  | 10.2  | 15.2  |
| 129 | 11.0  | 8.6   | 13.0  |



Instrument :  
MSVOA\_Y  
ClientSampleId :  
GHOST-4D

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