

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD120621\  
 Data File : VD071171.D  
 Acq On : 06 Dec 2021 16:53  
 Operator : VA/SY  
 Sample : M4954-05  
 Misc : 6.87G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SB-5(7.5-8)

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 12/08/2021  
 Supervised By : Amit Patel 12/08/2021

Quant Time: Dec 07 06:53:11 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D112921S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Nov 29 17:54:09 2021  
 Response via : Initial Calibration

| Compound                    | R.T.           | QIon | Response             | Conc     | Units  | Dev(Min) |
|-----------------------------|----------------|------|----------------------|----------|--------|----------|
| -----                       |                |      |                      |          |        |          |
| Internal Standards          |                |      |                      |          |        |          |
| 1) Pentafluorobenzene       | 7.973          | 168  | 194676               | 50.000   | ug/l   | -0.01    |
| 34) 1,4-Difluorobenzene     | 8.861          | 114  | 334840               | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.638         | 117  | 412434               | 50.000   | ug/l   | # 0.00   |
| 72) 1,4-Dichlorobenzene-d4  | 13.549         | 152  | 501964               | 50.000   | ug/l   | #-0.02   |
|                             |                |      |                      |          |        |          |
| System Monitoring Compounds |                |      |                      |          |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.326          | 65   | 118489               | 51.871   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 50 - 163 |      | Recovery = 103.740%  |          |        |          |
| 35) Dibromofluoromethane    | 7.914          | 113  | 106246               | 49.829   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 54 - 147 |      | Recovery = 99.660%   |          |        |          |
| 50) Toluene-d8              | 10.332         | 98   | 827926               | 102.034  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 49 - 140 |      | Recovery = 204.060%# |          |        |          |
| 62) 4-Bromofluorobenzene    | 12.620         | 95   | 953340               | 338.943  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 25 - 144 |      | Recovery = 677.880%# |          |        |          |
|                             |                |      |                      |          |        |          |
| Target Compounds            |                |      |                      |          |        |          |
|                             |                |      |                      |          | Qvalue |          |
| 16) Acetone                 | 4.156          | 43   | 13943                | 50.951   | ug/l # | 86       |
| 31) Cyclohexane             | 7.979          | 56   | 467928               | 120.427  | ug/l   | 97       |
| 39) Methylcyclohexane       | 9.349          | 83   | 3131517              | 831.940  | ug/l   | 99       |
| 52) Toluene                 | 10.396         | 92   | 38647                | 7.165    | ug/l   | 96       |
| 67) Ethyl Benzene           | 11.738         | 91   | 4846839              | 336.449  | ug/l   | 99       |
| 68) m/p-Xylenes             | 11.843         | 106  | 8821556              | 1621.996 | ug/l   | 93       |
| 69) o-Xylene                | 12.173         | 106  | 290490               | 56.828   | ug/l   | 61       |
| 73) Isopropylbenzene        | 12.473         | 105  | 4670434              | 128.498  | ug/l   | 99       |
| 78) n-propylbenzene         | 12.814         | 91   | 9954916              | 219.933  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene  | 12.955         | 105  | 15694502             | 523.643  | ug/l   | 92       |
| 84) 1,2,4-Trimethylbenzene  | 13.255         | 105  | 19783104m            | 676.075  | ug/l   |          |
| 85) sec-Butylbenzene        | 13.396         | 105  | 8595789              | 218.646  | ug/l   | 82       |
| 86) p-Isopropyltoluene      | 13.508         | 119  | 5780984              | 179.787  | ug/l   | 96       |
| 89) n-Butylbenzene          | 13.832         | 91   | 9152991              | 291.600  | ug/l # | 71       |
| 95) Naphthalene             | 15.384         | 128  | 2748324              | 187.540  | ug/l   | 98       |
| -----                       |                |      |                      |          |        |          |

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

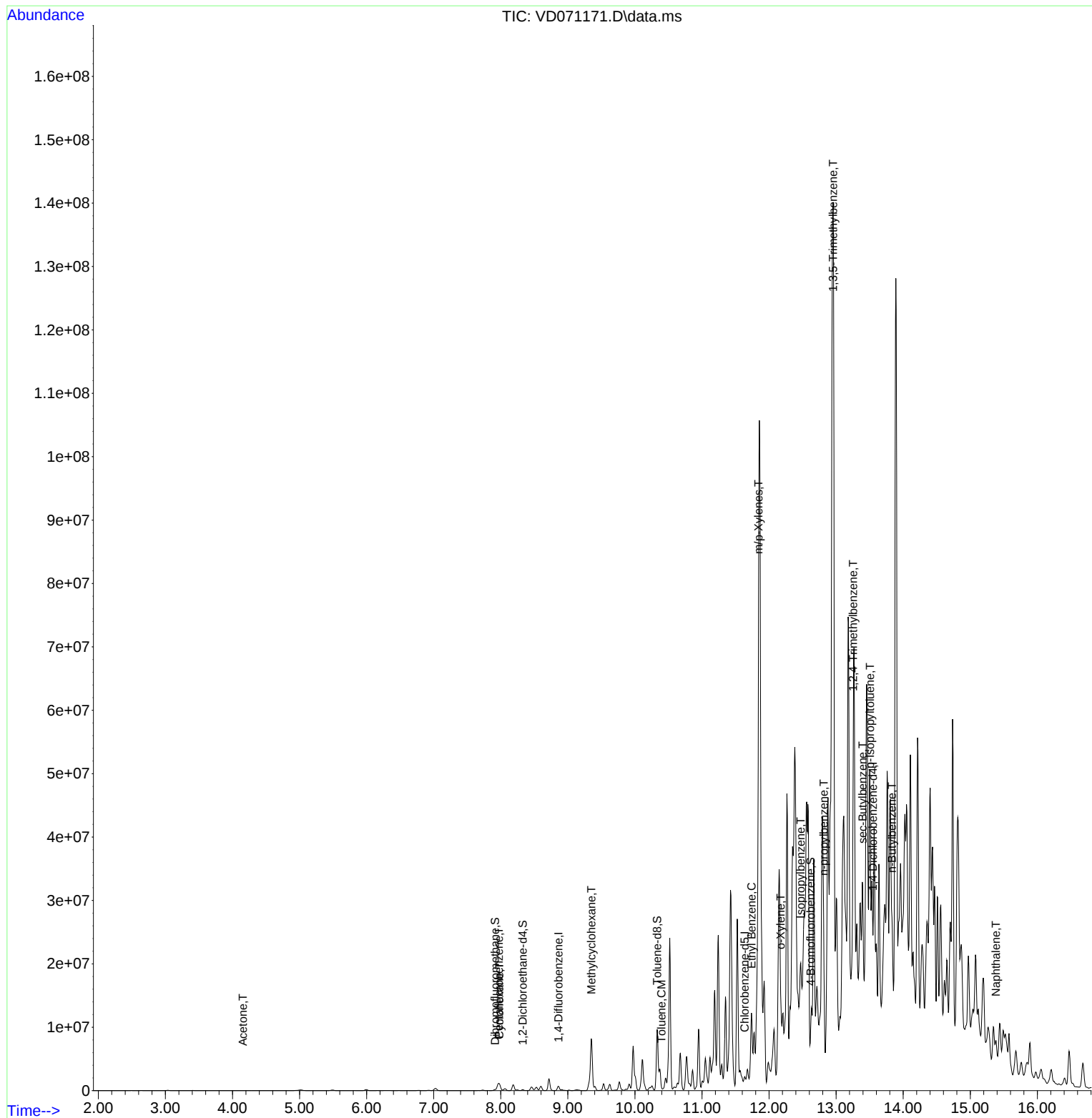
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD120621\  
Data File : VD071171.D  
Acq On : 06 Dec 2021 16:53  
Operator : VA/SY  
Sample : M4954-05  
Misc : 6.87G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 1 Sample Multiplier: 1

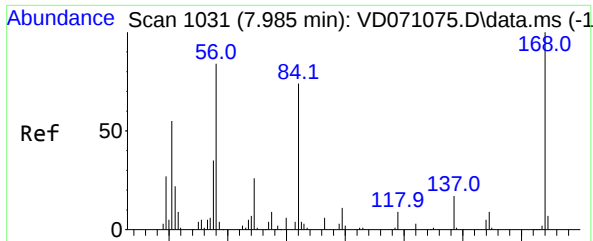
Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-5(7.5-8)

Manual Integrations  
APPROVED

Reviewed By : Semsettin Yesilyurt 12/08/2021  
Supervised By : Amit Patel 12/08/2021

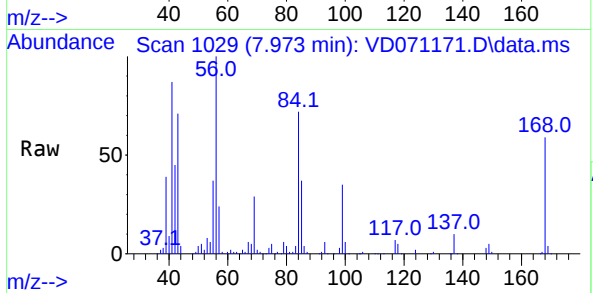
Quant Time: Dec 07 06:53:11 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D112921S.M  
Quant Title : SW846 8260  
QLast Update : Mon Nov 29 17:54:09 2021  
Response via : Initial Calibration





#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.012 min  
Lab File: VD071171.D  
Acq: 06 Dec 2021 16:53

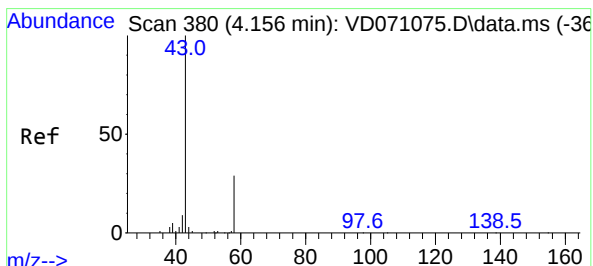
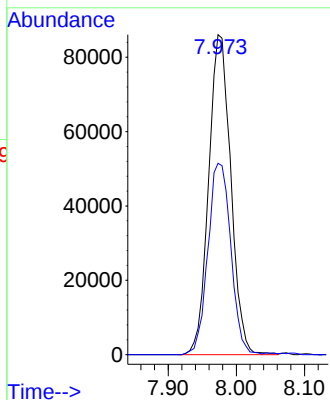
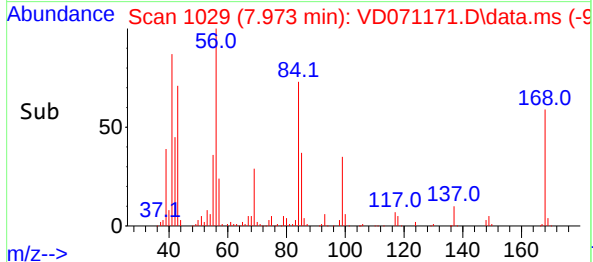
Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-5(7.5-8)



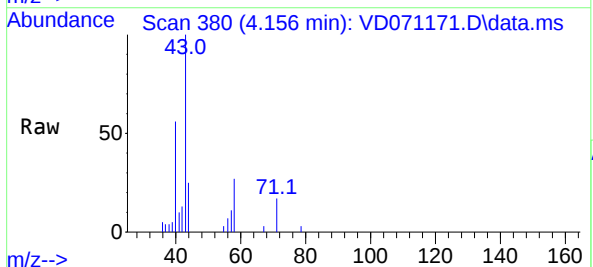
Tgt Ion:168 Resp: 194670  
Ion Ratio Lower Upper  
168 100  
99 59.8 46.6 69.8

Manual Integrations  
APPROVED

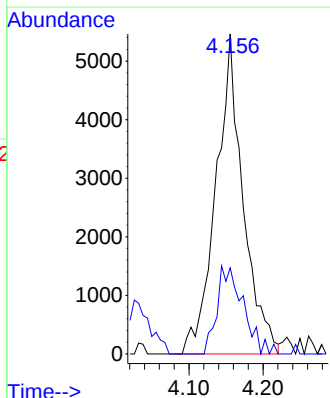
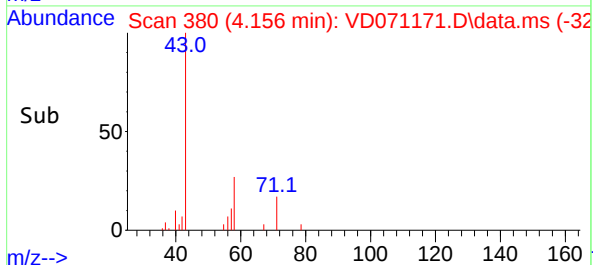
Reviewed By :Semsettin Yesilyurt 12/08/2021  
Supervised By :Amit Patel 12/08/2021

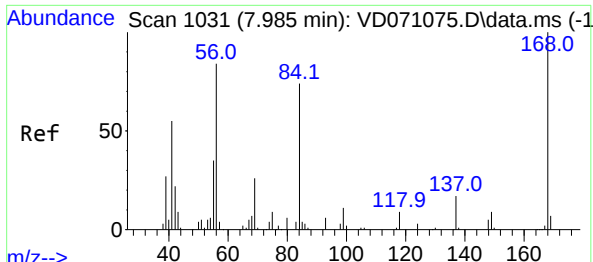


#16  
Acetone  
Concen: 50.951 ug/l  
RT: 4.156 min Scan# 380  
Delta R.T. -0.000 min  
Lab File: VD071171.D  
Acq: 06 Dec 2021 16:53



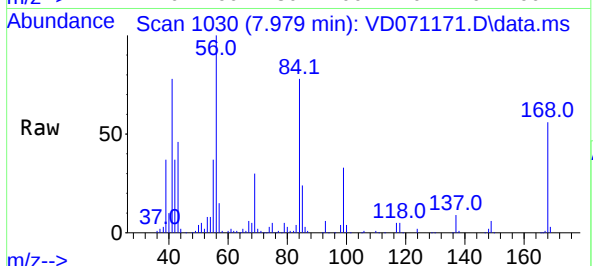
Tgt Ion: 43 Resp: 13943  
Ion Ratio Lower Upper  
43 100  
58 26.9 27.8 41.8#





#31  
Cyclohexane  
Concen: 120.427 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.006 min  
Lab File: VD071171.D  
Acq: 06 Dec 2021 16:53

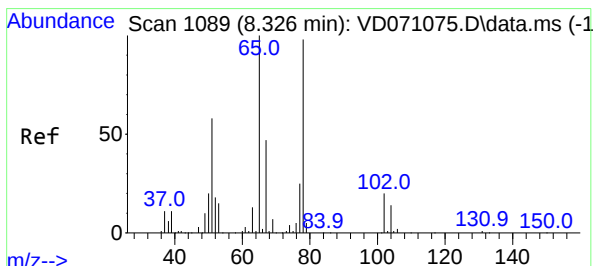
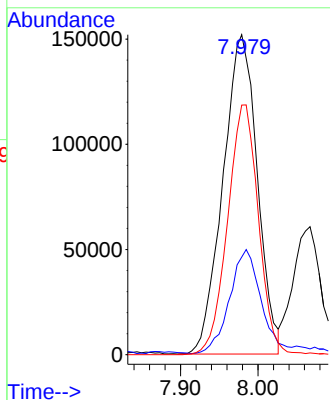
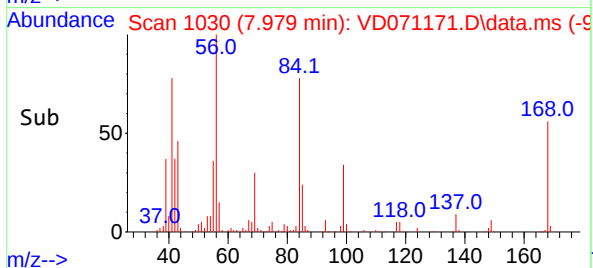
Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-5(7.5-8)



Tgt Ion: 56 Resp: 467928  
Ion Ratio Lower Upper  
56 100  
69 29.9 25.9 38.9  
84 78.2 64.3 96.5

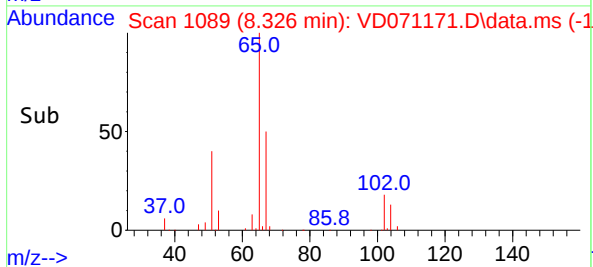
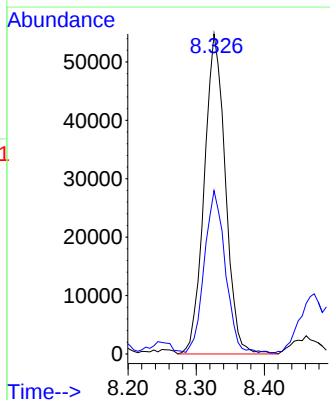
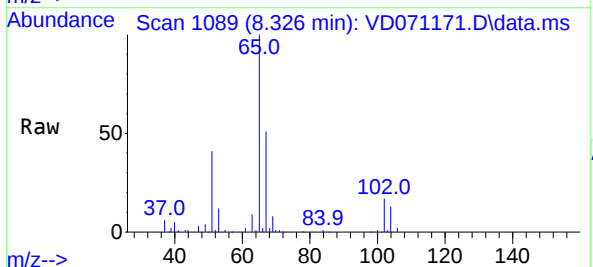
Manual Integrations  
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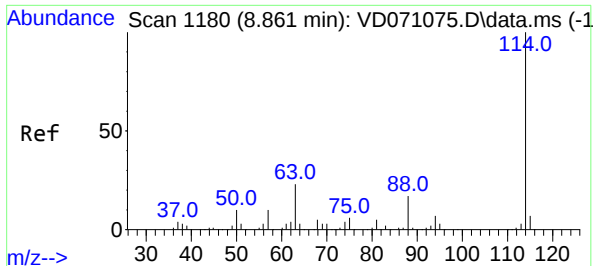
Reviewed By :Semsettin Yesilyurt 12/08/2021  
Supervised By :Amit Patel 12/08/2021



#33  
1,2-Dichloroethane-d4  
Concen: 51.871 ug/l  
RT: 8.326 min Scan# 1089  
Delta R.T. -0.000 min  
Lab File: VD071171.D  
Acq: 06 Dec 2021 16:53

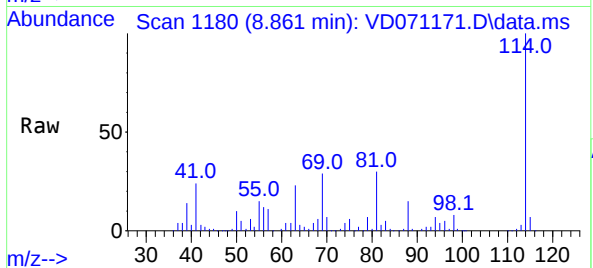
Tgt Ion: 65 Resp: 118489  
Ion Ratio Lower Upper  
65 100  
67 50.3 0.0 112.2





#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.861 min Scan# 1180  
Delta R.T. 0.000 min  
Lab File: VD071171.D  
Acq: 06 Dec 2021 16:53

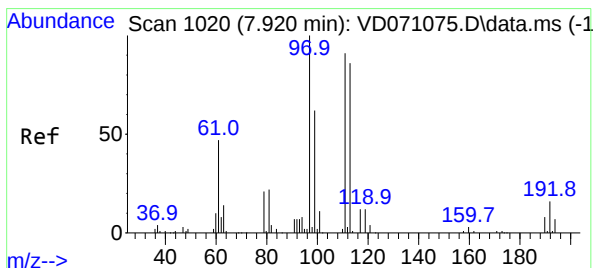
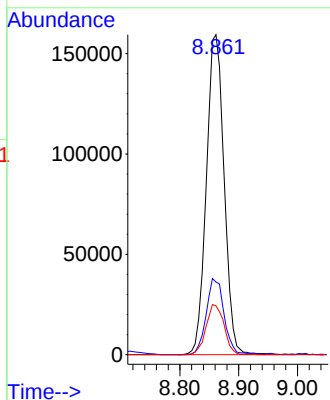
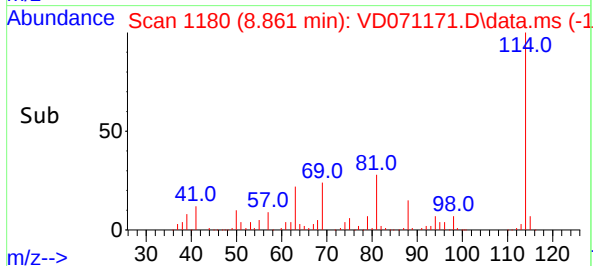
Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-5(7.5-8)



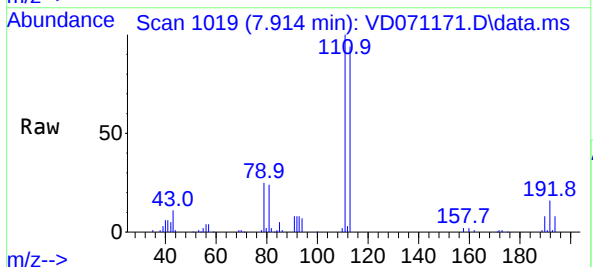
Tgt Ion:114 Resp: 334840  
Ion Ratio Lower Upper  
114 100  
63 22.7 0.0 41.8  
88 15.2 0.0 32.8

Manual Integrations  
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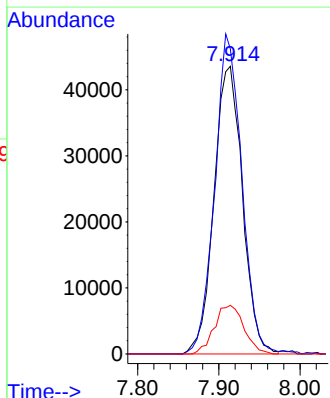
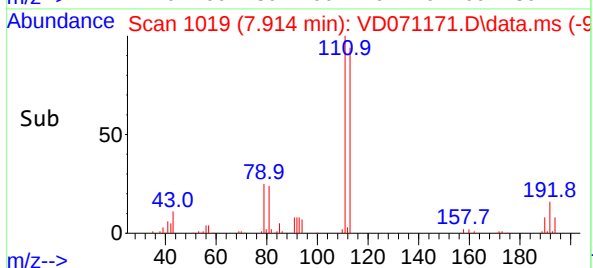
Reviewed By :Semsettin Yesilyurt 12/08/2021  
Supervised By :Amit Patel 12/08/2021

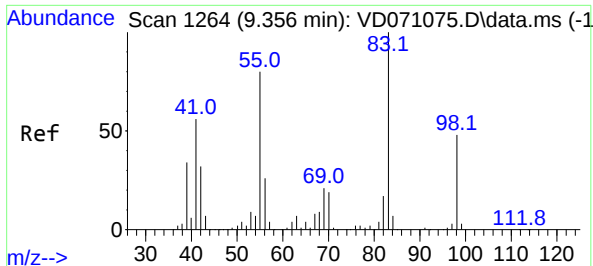


#35  
Dibromofluoromethane  
Concen: 49.829 ug/l  
RT: 7.914 min Scan# 1019  
Delta R.T. -0.006 min  
Lab File: VD071171.D  
Acq: 06 Dec 2021 16:53



Tgt Ion:113 Resp: 106246  
Ion Ratio Lower Upper  
113 100  
111 106.0 82.0 123.0  
192 17.6 15.2 22.8





#39

Methylcyclohexane

Concen: 831.940 ug/l

RT: 9.349 min Scan# 11

Delta R.T. -0.007 min

Lab File: VD071171.D

Acq: 06 Dec 2021 16:53

Instrument :

MSVOA\_D

ClientSampleId :

SB-5(7.5-8)

Tgt Ion: 83 Resp: 313151

Ion Ratio Lower Upper

83 100

55 83.4 65.8 98.8

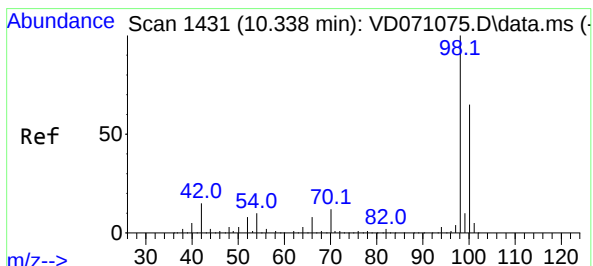
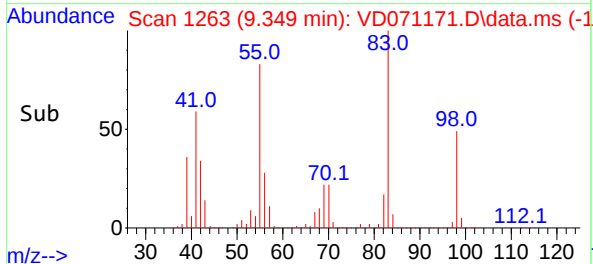
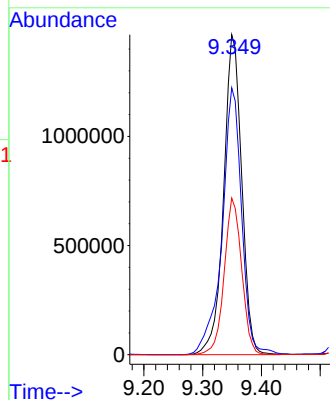
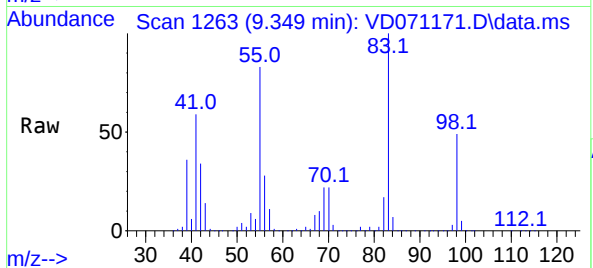
98 48.9 38.7 58.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/08/2021

Supervised By :Amit Patel 12/08/2021



#50

Toluene-d8

Concen: 102.034 ug/l

RT: 10.332 min Scan# 1430

Delta R.T. -0.006 min

Lab File: VD071171.D

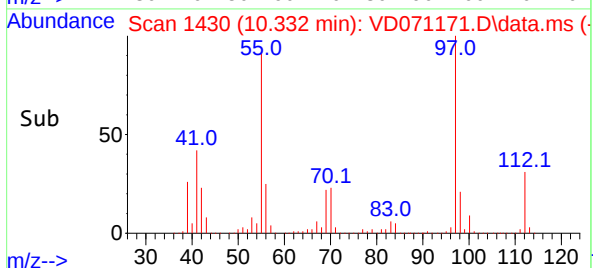
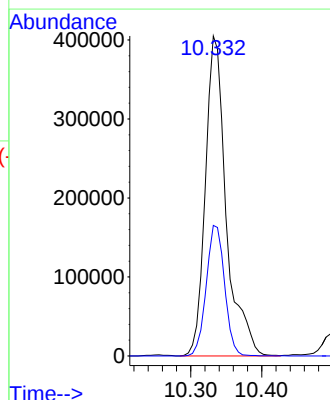
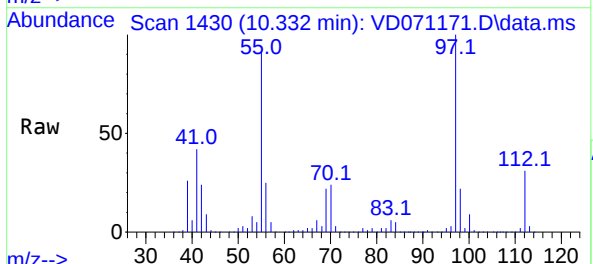
Acq: 06 Dec 2021 16:53

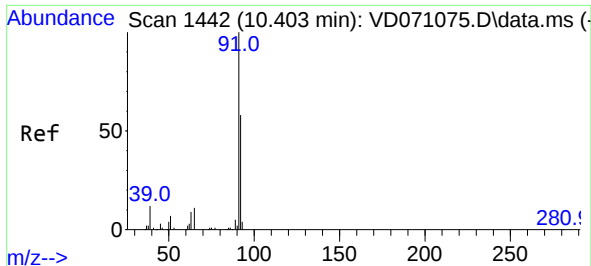
Tgt Ion: 98 Resp: 827926

Ion Ratio Lower Upper

98 100

100 35.8 51.8 77.6#





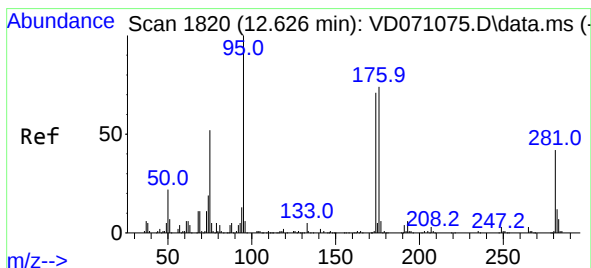
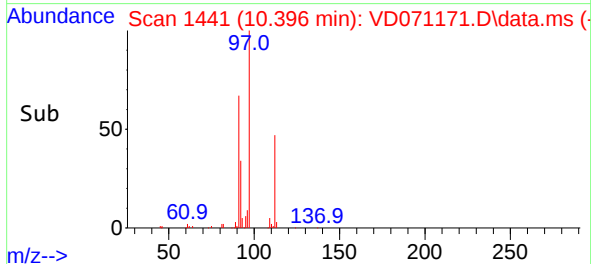
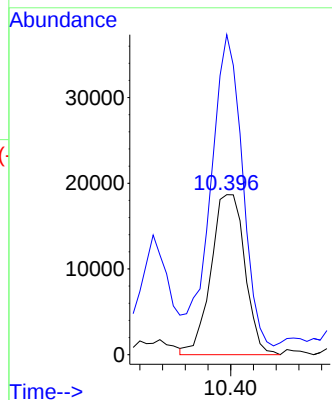
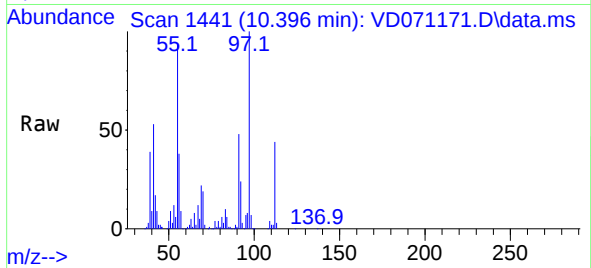
#52  
Toluene  
Concen: 7.165 ug/l  
RT: 10.396 min Scan# 1442  
Delta R.T. -0.007 min  
Lab File: VD071171.D  
Acq: 06 Dec 2021 16:53

Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-5(7.5-8)

Tgt Ion: 92 Resp: 3864  
Ion Ratio Lower Upper  
92 100  
91 181.5 140.7 211.1

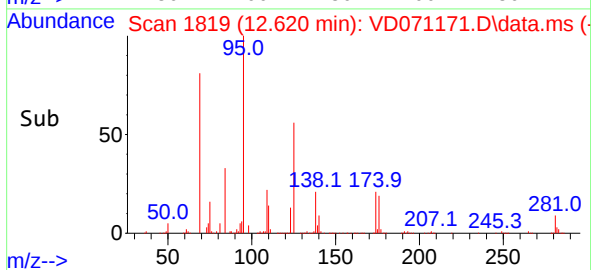
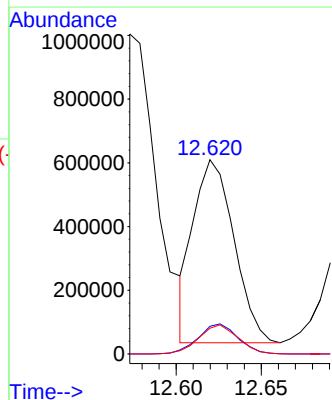
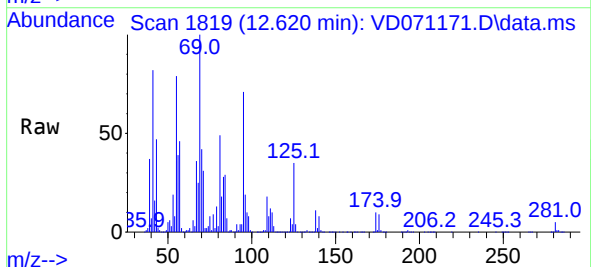
Manual Integrations  
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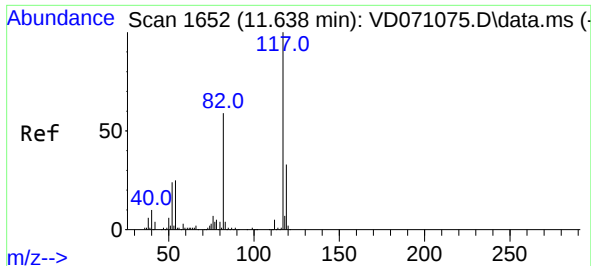
Reviewed By :Semsettin Yesilyurt 12/08/2021  
Supervised By :Amit Patel 12/08/2021



#62  
4-Bromofluorobenzene  
Concen: 338.943 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.006 min  
Lab File: VD071171.D  
Acq: 06 Dec 2021 16:53

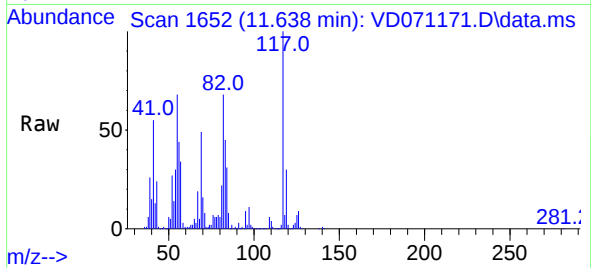
Tgt Ion: 95 Resp: 953340  
Ion Ratio Lower Upper  
95 100  
174 16.1 0.0 159.4  
176 15.3 0.0 154.0





#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1170  
Delta R.T. -0.000 min  
Lab File: VD071171.D  
Acq: 06 Dec 2021 16:53

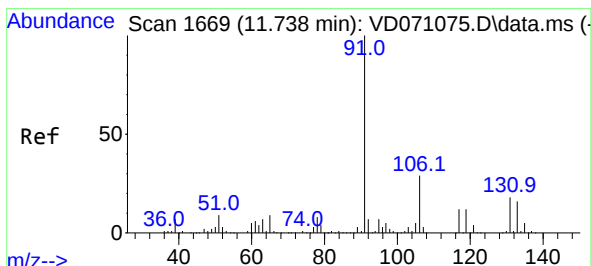
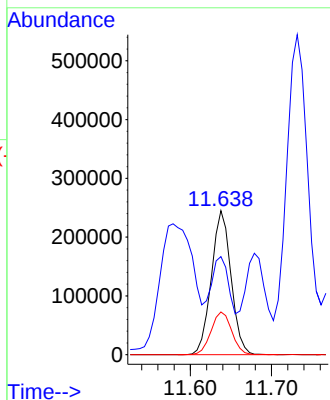
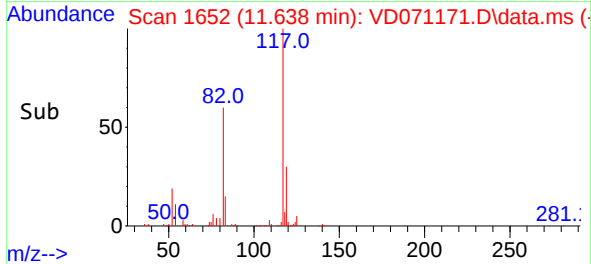
Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-5(7.5-8)



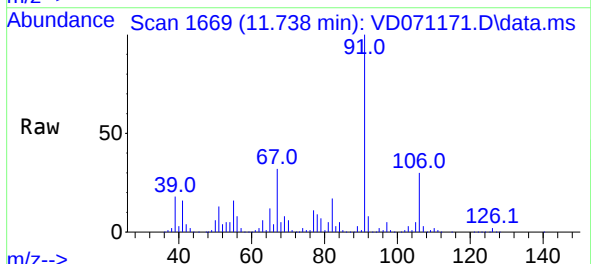
Tgt Ion:117 Resp: 412434  
Ion Ratio Lower Upper  
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82 30.3 44.7 67.1  
119 29.7 26.2 39.4

Manual Integrations  
APPROVED

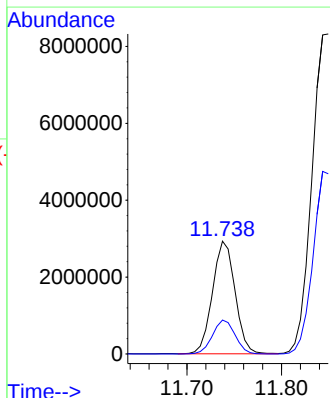
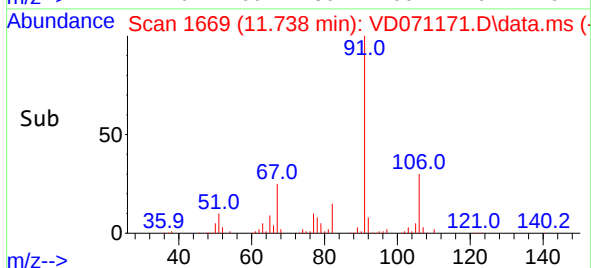
Reviewed By :Semsettin Yesilyurt 12/08/2021  
Supervised By :Amit Patel 12/08/2021

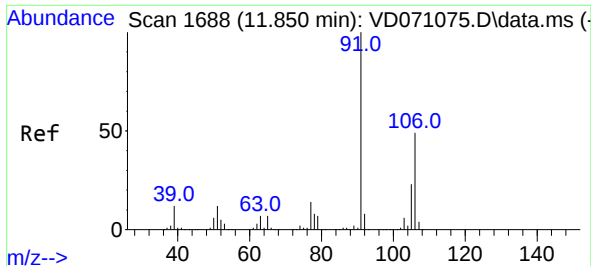


#67  
Ethyl Benzene  
Concen: 336.449 ug/l  
RT: 11.738 min Scan# 1669  
Delta R.T. -0.000 min  
Lab File: VD071171.D  
Acq: 06 Dec 2021 16:53



Tgt Ion: 91 Resp: 4846839  
Ion Ratio Lower Upper  
91 100  
106 30.1 24.6 36.8





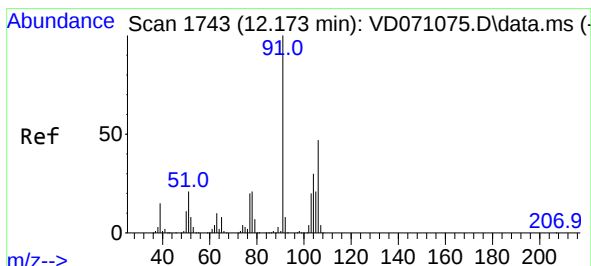
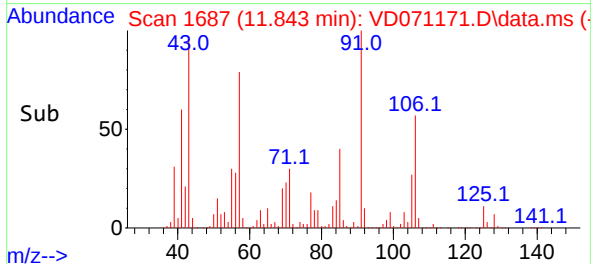
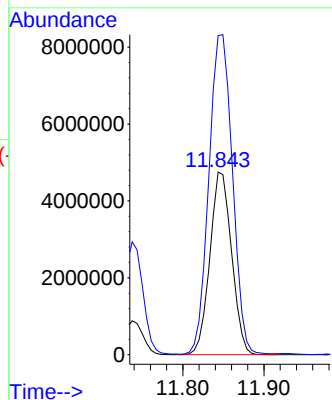
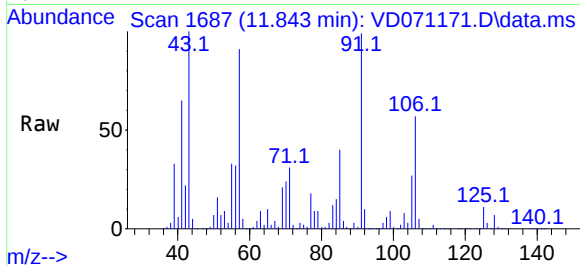
#68  
m/p-Xylenes  
Concen: 1621.996 ug/l  
RT: 11.843 min Scan# 11843  
Delta R.T. -0.007 min  
Lab File: VD071171.D  
Acq: 06 Dec 2021 16:53

Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-5(7.5-8)

Tgt Ion:106 Resp: 882155  
Ion Ratio Lower Upper  
106 100  
91 189.9 160.1 240.1

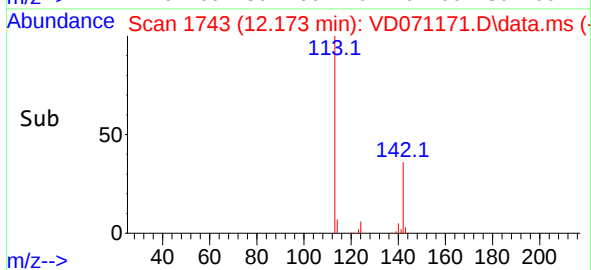
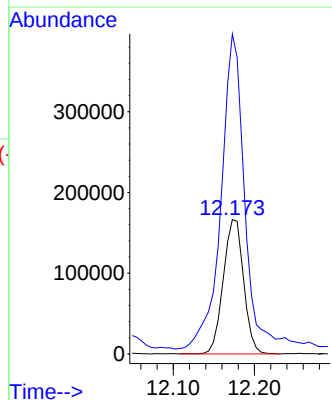
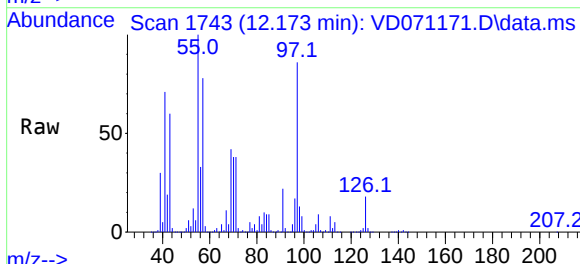
Manual Integrations  
APPROVED

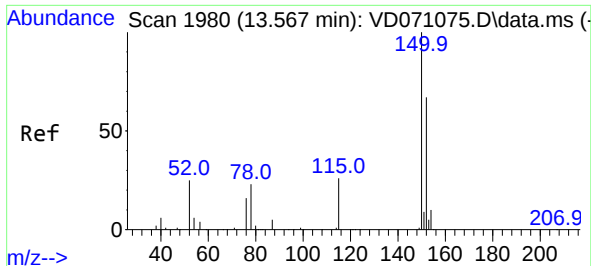
Reviewed By :Semsettin Yesilyurt 12/08/2021  
Supervised By :Amit Patel 12/08/2021



#69  
o-Xylene  
Concen: 56.828 ug/l  
RT: 12.173 min Scan# 1743  
Delta R.T. -0.000 min  
Lab File: VD071171.D  
Acq: 06 Dec 2021 16:53

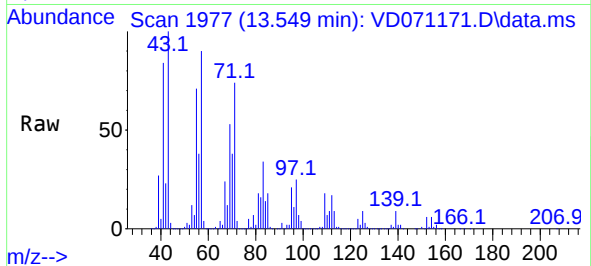
Tgt Ion:106 Resp: 290490  
Ion Ratio Lower Upper  
106 100  
91 274.8 106.3 319.0





#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.549 min Scan# 1980  
Delta R.T. -0.018 min  
Lab File: VD071171.D  
Acq: 06 Dec 2021 16:53

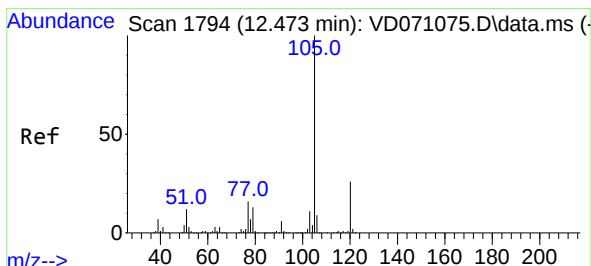
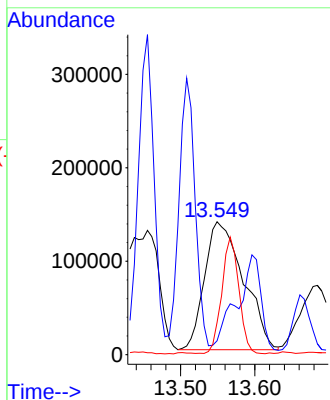
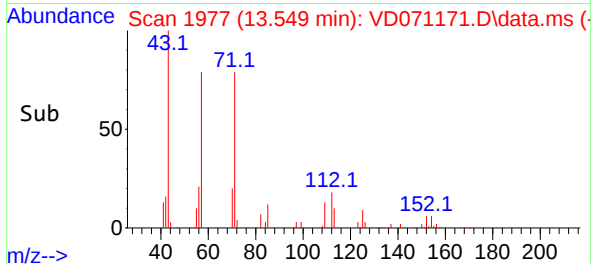
Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-5(7.5-8)



Tgt Ion:152 Resp: 501964  
Ion Ratio Lower Upper  
152 100  
115 0.0 29.8 89.3  
150 39.8 0.0 349.2

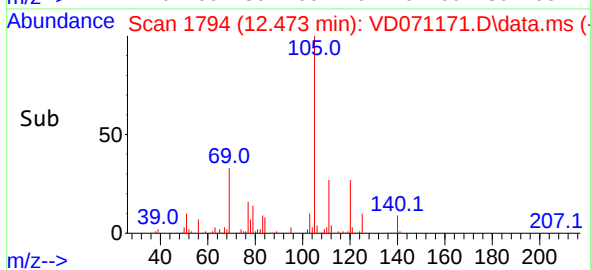
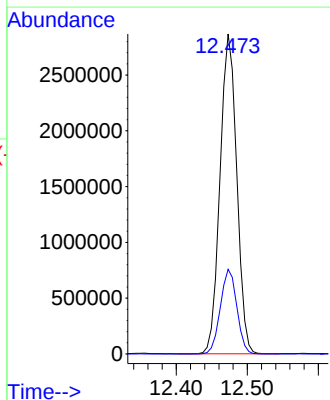
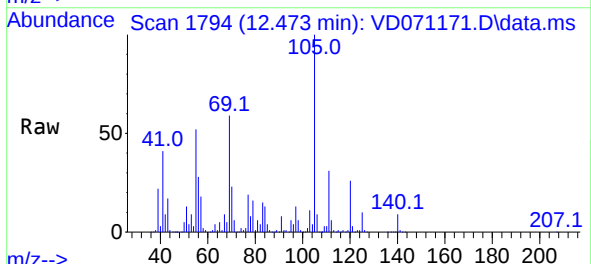
Manual Integrations  
APPROVED

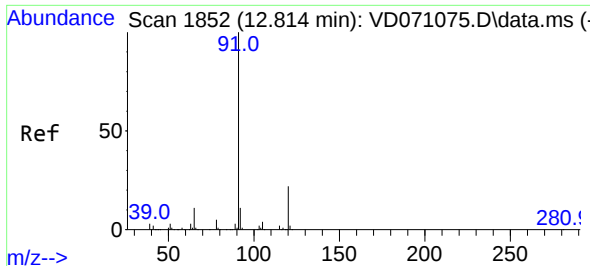
Reviewed By :Semsettin Yesilyurt 12/08/2021  
Supervised By :Amit Patel 12/08/2021



#73  
Isopropylbenzene  
Concen: 128.498 ug/l  
RT: 12.473 min Scan# 1794  
Delta R.T. -0.000 min  
Lab File: VD071171.D  
Acq: 06 Dec 2021 16:53

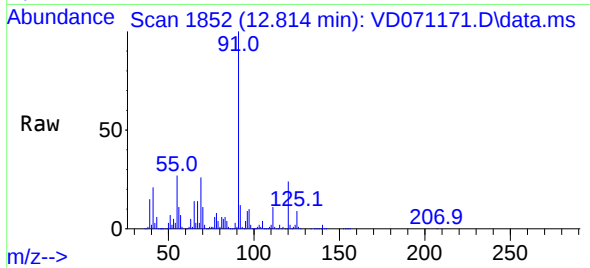
Tgt Ion:105 Resp: 4670434  
Ion Ratio Lower Upper  
105 100  
120 26.0 13.2 39.5





#78  
n-propylbenzene  
Concen: 219.933 ug/l  
RT: 12.814 min Scan# 1852  
Delta R.T. -0.000 min  
Lab File: VD071171.D  
Acq: 06 Dec 2021 16:53

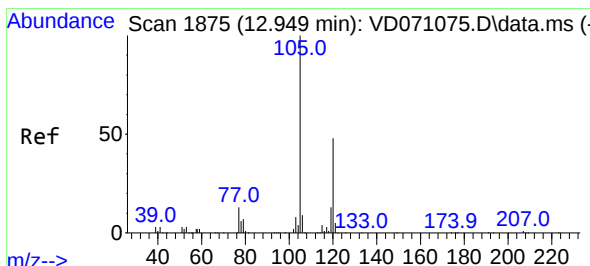
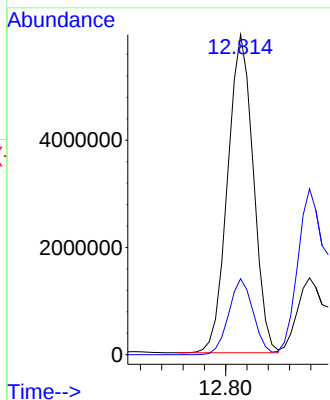
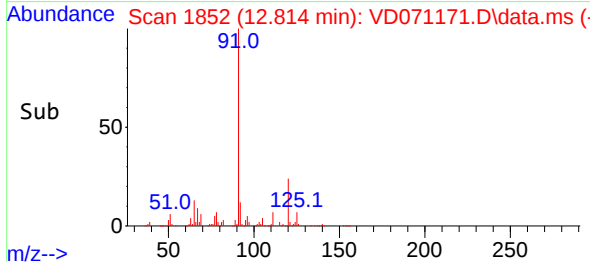
Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-5(7.5-8)



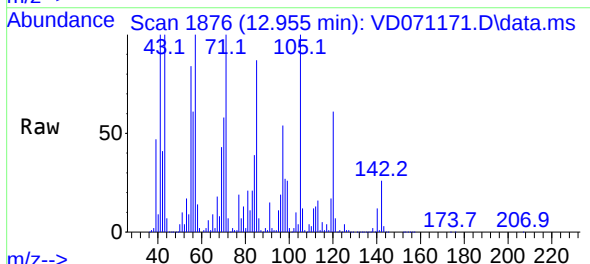
Tgt Ion: 91 Resp: 9954910  
Ion Ratio Lower Upper  
91 100  
120 22.7 10.9 32.9

Manual Integrations  
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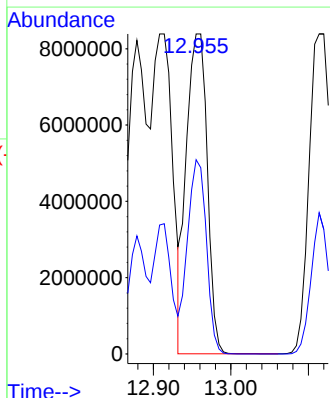
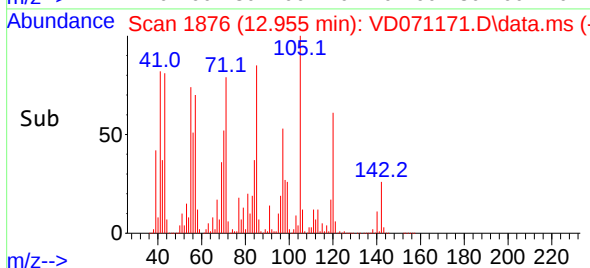
Reviewed By :Semsettin Yesilyurt 12/08/2021  
Supervised By :Amit Patel 12/08/2021

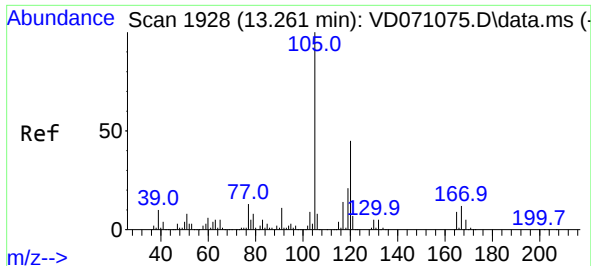


#80  
1,3,5-Trimethylbenzene  
Concen: 523.643 ug/l  
RT: 12.955 min Scan# 1876  
Delta R.T. 0.006 min  
Lab File: VD071171.D  
Acq: 06 Dec 2021 16:53



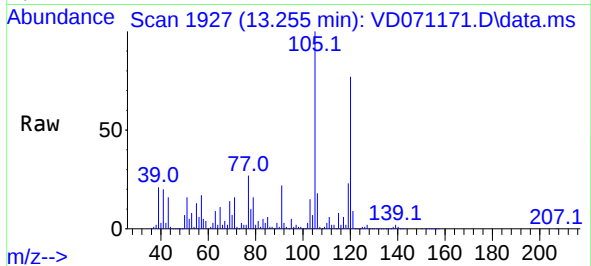
Tgt Ion:105 Resp:15694502  
Ion Ratio Lower Upper  
105 100  
120 54.9 24.6 73.8





#84  
1,2,4-Trimethylbenzene  
Concen: 676.075 ug/l m  
RT: 13.255 min Scan# 1928  
Delta R.T. -0.006 min  
Lab File: VD071171.D  
Acq: 06 Dec 2021 16:53

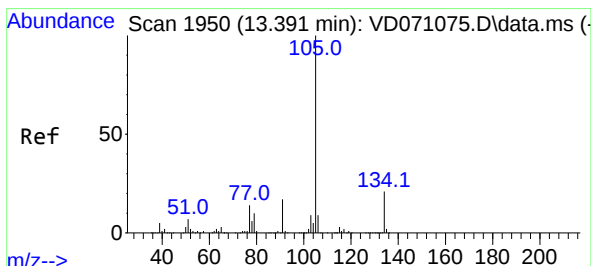
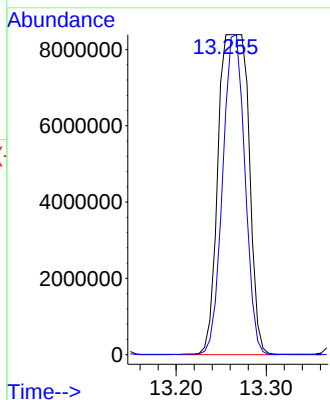
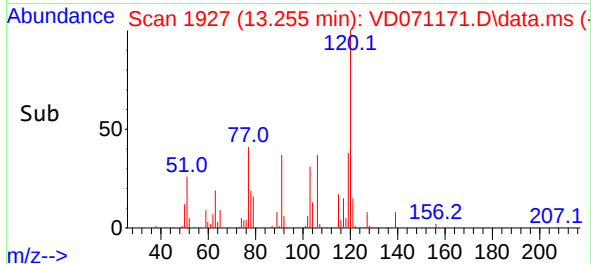
Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-5(7.5-8)



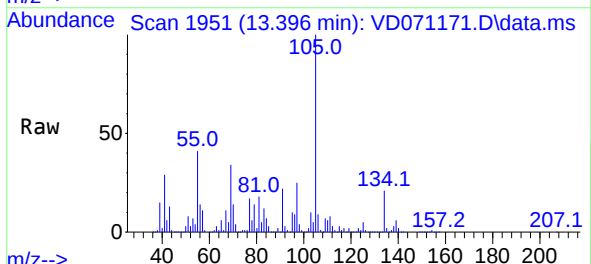
Tgt Ion:105 Resp:19783104  
Ion Ratio Lower Upper  
105 100  
120 29.6 22.9 68.7

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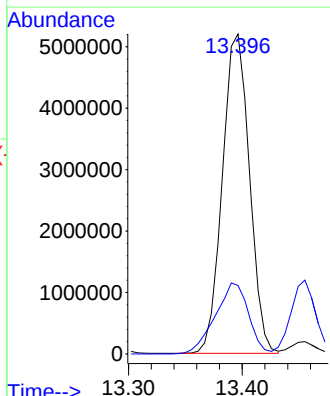
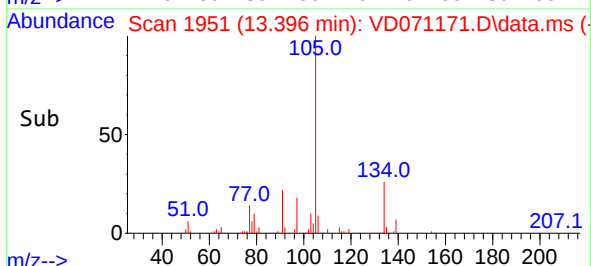
Reviewed By :Semsettin Yesilyurt 12/08/2021  
Supervised By :Amit Patel 12/08/2021

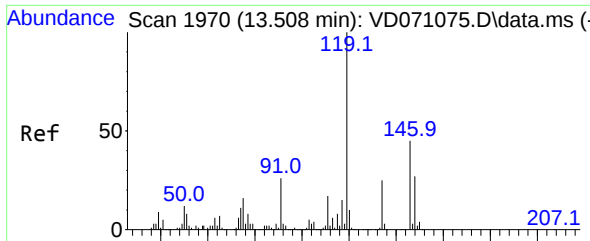


#85  
sec-Butylbenzene  
Concen: 218.646 ug/l  
RT: 13.396 min Scan# 1951  
Delta R.T. 0.005 min  
Lab File: VD071171.D  
Acq: 06 Dec 2021 16:53



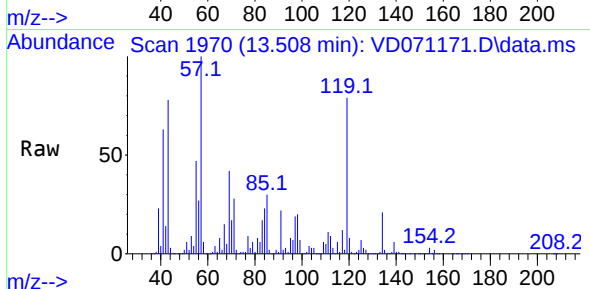
Tgt Ion:105 Resp: 8595789  
Ion Ratio Lower Upper  
105 100  
134 27.3 9.7 28.9





#86  
p-Isopropyltoluene  
Concen: 179.787 ug/l  
RT: 13.508 min Scan# 1970  
Delta R.T. 0.000 min  
Lab File: VD071171.D  
Acq: 06 Dec 2021 16:53

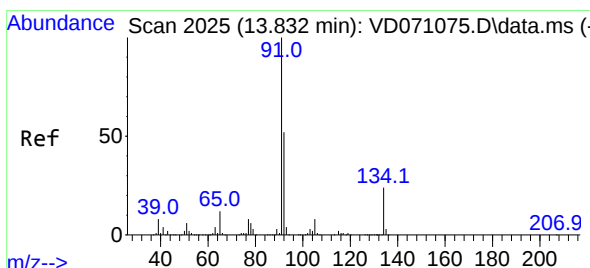
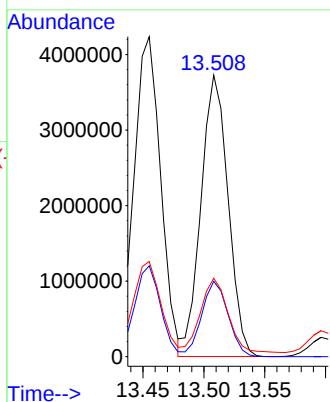
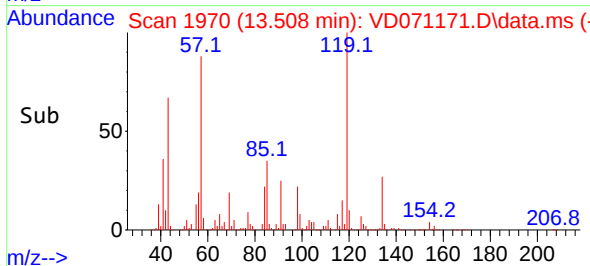
Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-5(7.5-8)



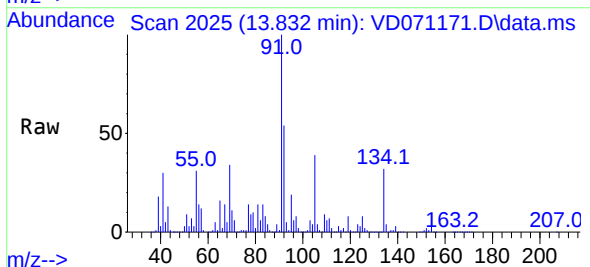
Tgt Ion:119 Resp: 5780984  
Ion Ratio Lower Upper  
119 100  
134 25.8 13.0 38.9  
91 26.4 11.4 34.2

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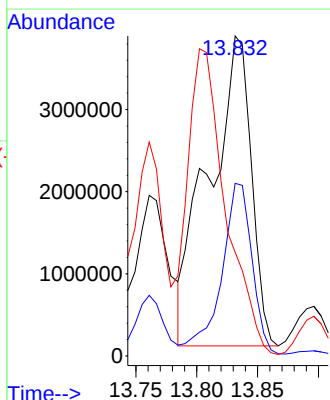
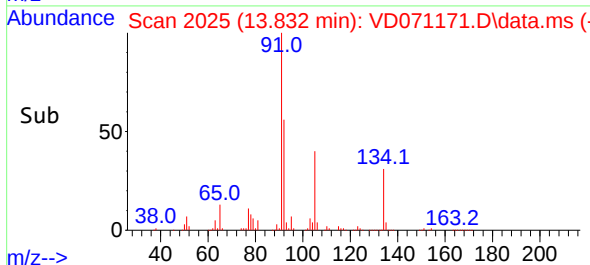
Reviewed By :Semsettin Yesilyurt 12/08/2021  
Supervised By :Amit Patel 12/08/2021

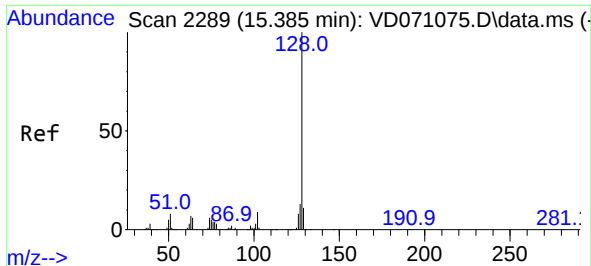


#89  
n-Butylbenzene  
Concen: 291.600 ug/l  
RT: 13.832 min Scan# 2025  
Delta R.T. -0.000 min  
Lab File: VD071171.D  
Acq: 06 Dec 2021 16:53



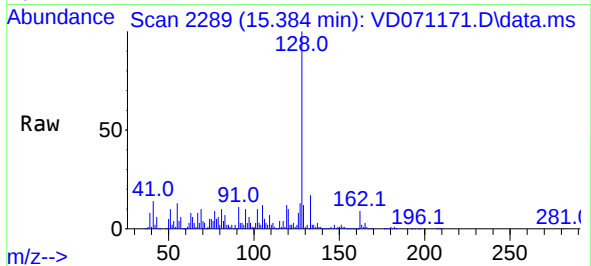
Tgt Ion: 91 Resp: 9152991  
Ion Ratio Lower Upper  
91 100  
92 39.8 27.3 81.9  
134 0.0 12.3 36.9#





#95  
Naphthalene  
Concen: 187.540 ug/l  
RT: 15.384 min Scan# 21  
Delta R.T. -0.001 min  
Lab File: VD071171.D  
Acq: 06 Dec 2021 16:53

Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-5(7.5-8)



Tgt Ion:128 Resp: 2748324  
Ion Ratio Lower Upper  
128 100  
127 14.3 10.7 16.1  
129 11.5 8.7 13.1

Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 12/08/2021  
Supervised By :Amit Patel 12/08/2021

