

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY050125\  
 Data File : VY022112.D  
 Acq On : 01 May 2025 17:16  
 Operator : SY/MD  
 Sample : Q1914-06  
 Misc : 7.75g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 SS-5

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/05/2025  
 Supervised By :Mahesh Dadoda 05/05/2025

Quant Time: May 02 01:31:37 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y042225S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 23 02:30:30 2025  
 Response via : Initial Calibration

| Compound                    | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-----------------------------|----------------|------|------------|----------|--------|----------|
| -----                       |                |      |            |          |        |          |
| Internal Standards          |                |      |            |          |        |          |
| 1) Pentafluorobenzene       | 7.707          | 168  | 348703     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.616          | 114  | 593175     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.414         | 117  | 525097     | 50.000   | ug/l   | # 0.00   |
| 72) 1,4-Dichlorobenzene-d4  | 13.353         | 152  | 237049     | 50.000   | ug/l   | # 0.00   |
|                             |                |      |            |          |        |          |
| System Monitoring Compounds |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.061          | 65   | 153858     | 47.769   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 50 - 163 |      | Recovery = | 95.540%  |        |          |
| 35) Dibromofluoromethane    | 7.634          | 113  | 192496     | 49.121   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 54 - 147 |      | Recovery = | 98.240%  |        |          |
| 50) Toluene-d8              | 10.109         | 98   | 859815     | 58.198   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 58 - 134 |      | Recovery = | 116.400% |        |          |
| 62) 4-Bromofluorobenzene    | 12.408         | 95   | 276233     | 55.541   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 30 - 143 |      | Recovery = | 111.080% |        |          |
|                             |                |      |            |          |        |          |
| Target Compounds            |                |      |            |          | Qvalue |          |
| 16) Acetone                 | 3.879          | 43   | 11966      | 7.679    | ug/l # | 84       |
| 20) Methylene Chloride      | 4.610          | 84   | 14373      | 3.529    | ug/l   | 96       |
| 25) 2-Butanone              | 6.902          | 43   | 4613       | 6.283    | ug/l # | 80       |
| 31) Cyclohexane             | 7.701          | 56   | 595505     | 111.845  | ug/l   | 94       |
| 39) Methylcyclohexane       | 9.109          | 83   | 2110464    | 318.585  | ug/l   | 98       |
| 40) Benzene                 | 8.079          | 78   | 494837     | 30.072   | ug/l   | 99       |
| 52) Toluene                 | 10.170         | 92   | 1604199    | 150.607  | ug/l   | 98       |
| 67) Ethyl Benzene           | 11.518         | 91   | 9283955    | 483.316  | ug/l   | 96       |
| 68) m/p-Xylenes             | 11.627         | 106  | 14066887   | 1840.340 | ug/l # | 62       |
| 69) o-Xylene                | 11.956         | 106  | 6636011    | 941.942  | ug/l   | 90       |
| 73) Isopropylbenzene        | 12.255         | 105  | 1880303    | 118.726  | ug/l   | 100      |
| 78) n-propylbenzene         | 12.597         | 91   | 5434691    | 288.152  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene  | 12.737         | 105  | 7155023    | 548.313  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene  | 13.036         | 105  | 17605583m  | 1348.866 | ug/l   |          |
| 85) sec-Butylbenzene        | 13.176         | 105  | 1539777    | 89.913   | ug/l   | 86       |
| 86) p-Isopropyltoluene      | 13.292         | 119  | 896938     | 61.680   | ug/l   | 99       |
| 89) n-Butylbenzene          | 13.621         | 91   | 1551221    | 119.343  | ug/l # | 72       |
| -----                       |                |      |            |          |        |          |

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

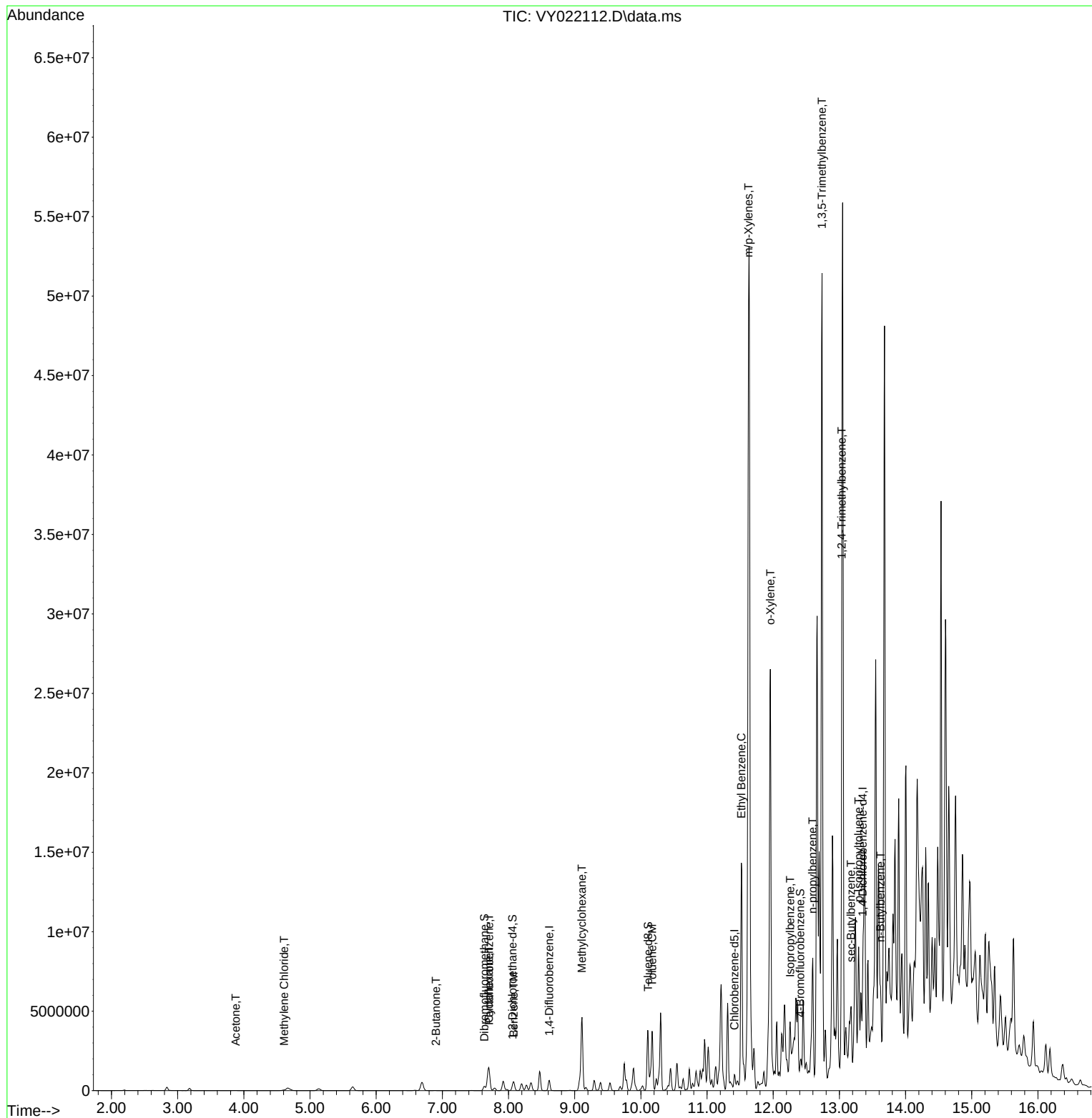
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY050125\  
Data File : VY022112.D  
Acq On : 01 May 2025 17:16  
Operator : SY/MD  
Sample : Q1914-06  
Misc : 7.75g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 19 Sample Multiplier: 1

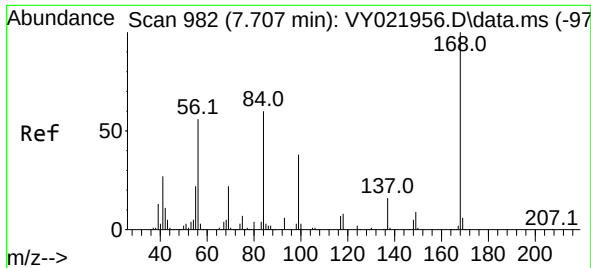
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SS-5

Manual Integrations  
APPROVED

Reviewed By : Semsettin Yesilyurt 05/05/2025  
Supervised By : Mahesh Dadoda 05/05/2025

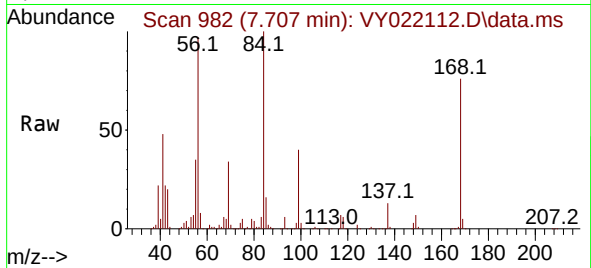
Quant Time: May 02 01:31:37 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y042225S.M  
Quant Title : SW846 8260  
QLast Update : Wed Apr 23 02:30:30 2025  
Response via : Initial Calibration





#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.707 min Scan# 982  
Delta R.T. 0.000 min  
Lab File: VY022112.D  
Acq: 01 May 2025 17:16

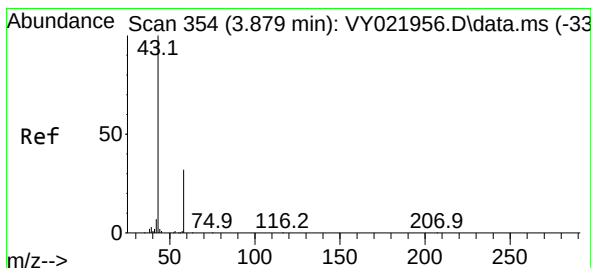
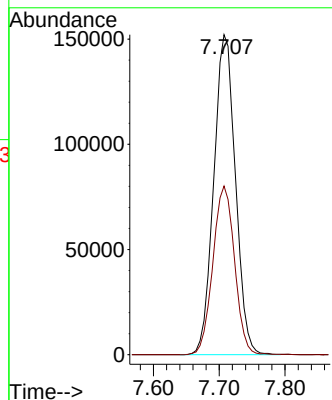
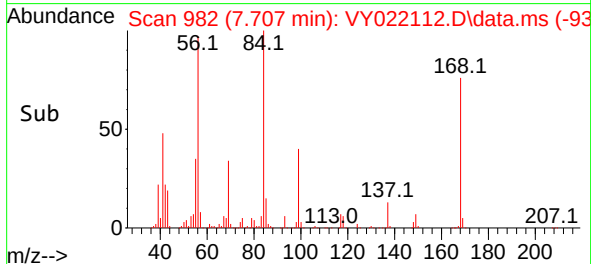
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SS-5



Tgt Ion:168 Resp: 34870  
Ion Ratio Lower Upper  
168 100  
99 52.7 43.1 64.7

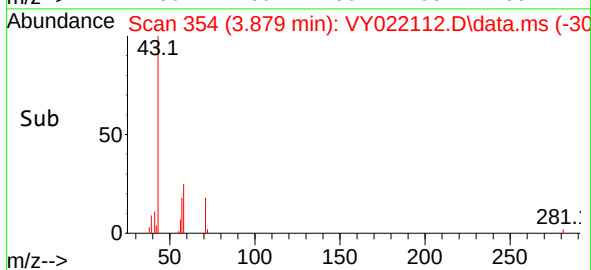
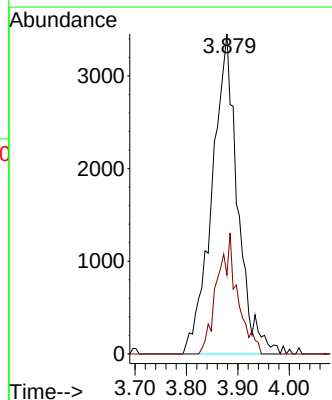
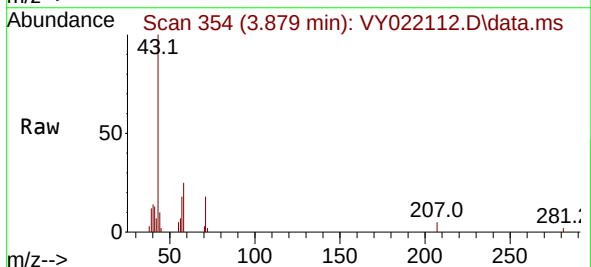
Manual Integrations  
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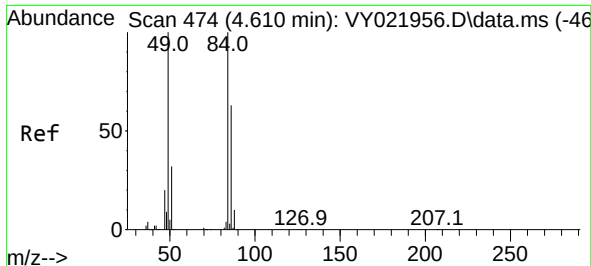
Reviewed By :Semsettin Yesilyurt 05/05/2025  
Supervised By :Mahesh Dadoda 05/05/2025



#16  
Acetone  
Concen: 7.679 ug/l  
RT: 3.879 min Scan# 354  
Delta R.T. -0.000 min  
Lab File: VY022112.D  
Acq: 01 May 2025 17:16

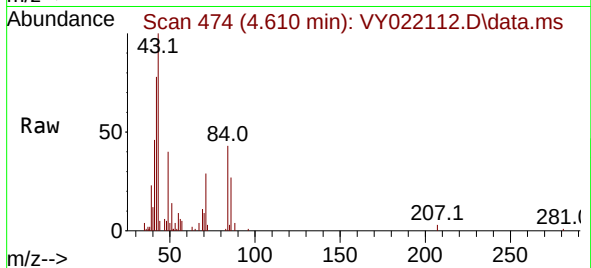
Tgt Ion: 43 Resp: 11966  
Ion Ratio Lower Upper  
43 100  
58 24.7 27.0 40.4#





#20  
Methylene Chloride  
Concen: 3.529 ug/l  
RT: 4.610 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VY022112.D  
Acq: 01 May 2025 17:16

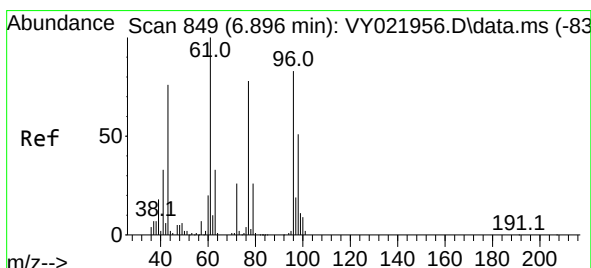
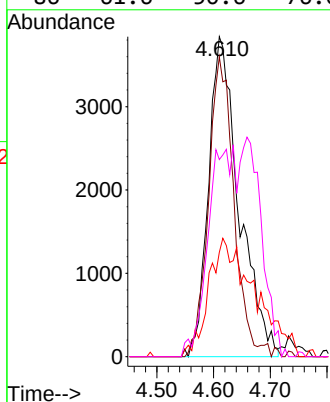
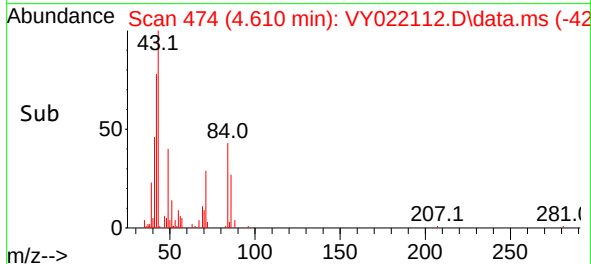
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SS-5



Tgt Ion: 84 Resp: 1437  
Ion Ratio Lower Upper  
84 100  
49 93.7 79.9 119.9  
51 32.6 25.4 38.0  
86 61.6 50.6 76.0

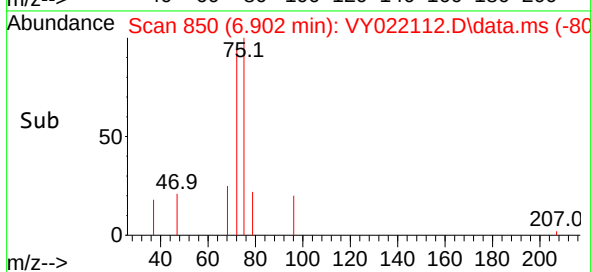
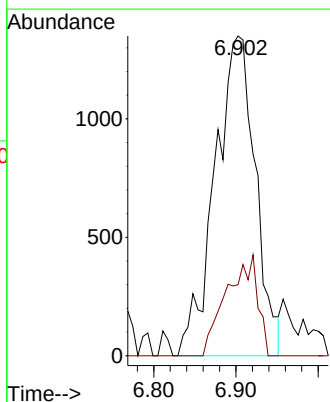
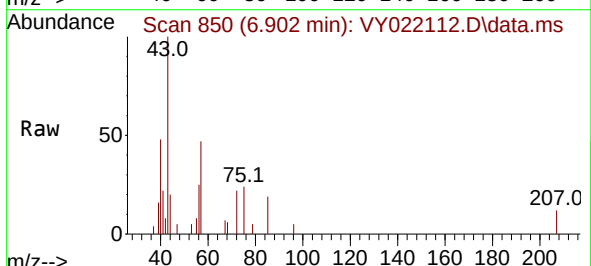
Manual Integrations  
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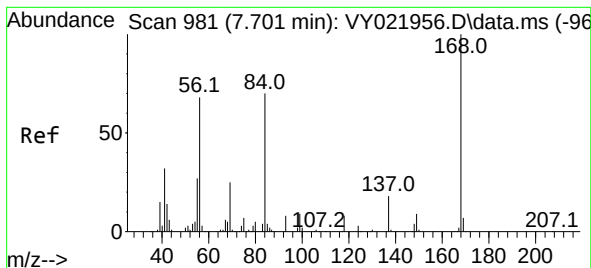
Reviewed By :Semsettin Yesilyurt 05/05/2025  
Supervised By :Mahesh Dadoda 05/05/2025



#25  
2-Butanone  
Concen: 6.283 ug/l  
RT: 6.902 min Scan# 850  
Delta R.T. 0.006 min  
Lab File: VY022112.D  
Acq: 01 May 2025 17:16

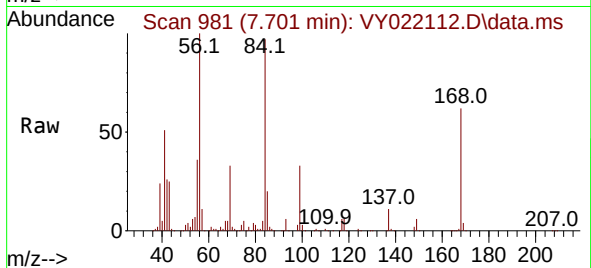
Tgt Ion: 43 Resp: 4613  
Ion Ratio Lower Upper  
43 100  
72 22.2 27.0 40.4#





#31  
Cyclohexane  
Concen: 111.845 ug/l  
RT: 7.701 min Scan# 981  
Delta R.T. -0.000 min  
Lab File: VY022112.D  
Acq: 01 May 2025 17:16

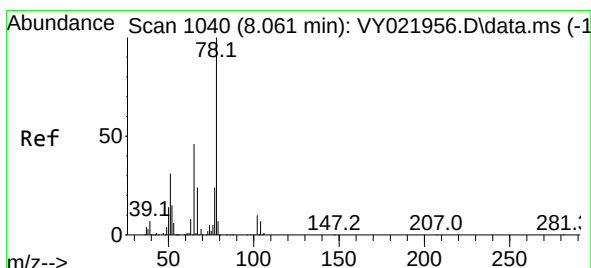
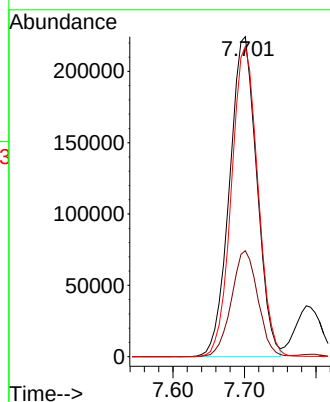
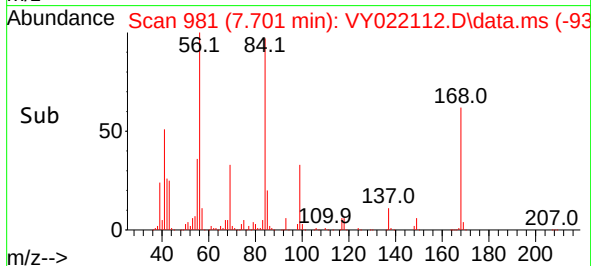
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SS-5



Tgt Ion: 56 Resp: 59550  
Ion Ratio Lower Upper  
56 100  
69 33.1 29.4 44.2  
84 96.9 82.2 123.4

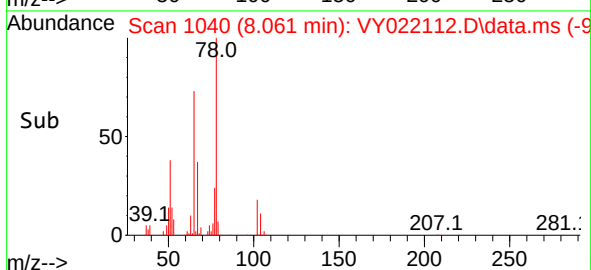
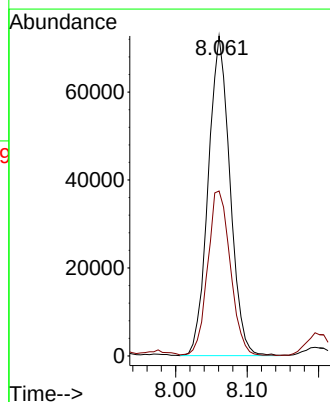
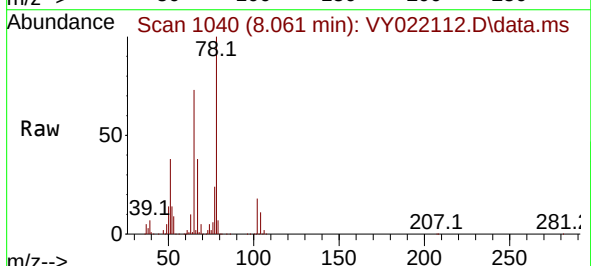
Manual Integrations  
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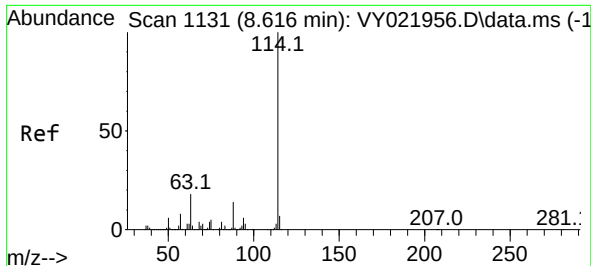
Reviewed By :Semsettin Yesilyurt 05/05/2025  
Supervised By :Mahesh Dadoda 05/05/2025



#33  
1,2-Dichloroethane-d4  
Concen: 47.769 ug/l  
RT: 8.061 min Scan# 1040  
Delta R.T. -0.000 min  
Lab File: VY022112.D  
Acq: 01 May 2025 17:16

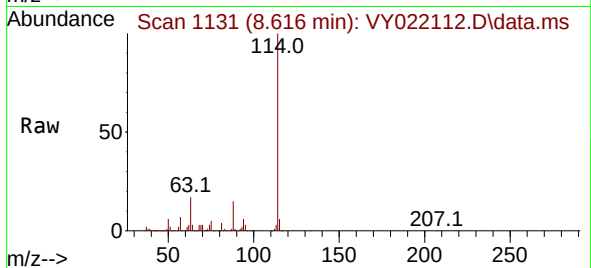
Tgt Ion: 65 Resp: 153858  
Ion Ratio Lower Upper  
65 100  
67 53.6 0.0 105.8





#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.616 min Scan# 1131  
Delta R.T. -0.000 min  
Lab File: VY022112.D  
Acq: 01 May 2025 17:16

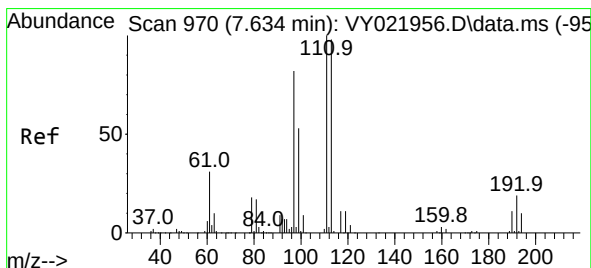
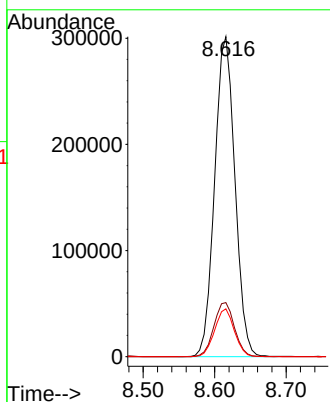
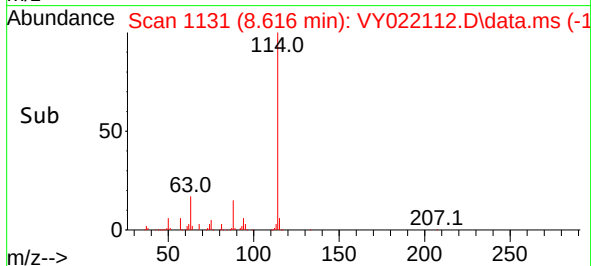
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SS-5



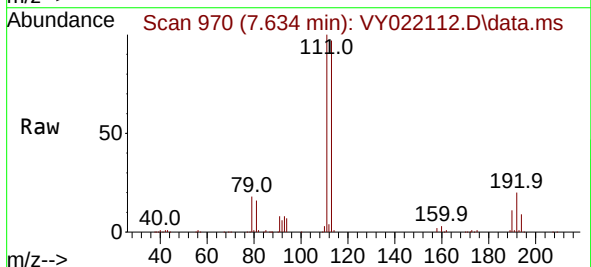
Tgt Ion:114 Resp: 59317  
Ion Ratio Lower Upper  
114 100  
63 16.9 0.0 35.4  
88 14.9 0.0 28.2

Manual Integrations  
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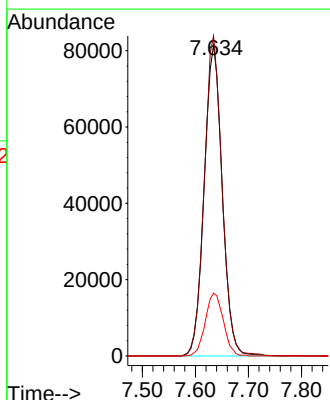
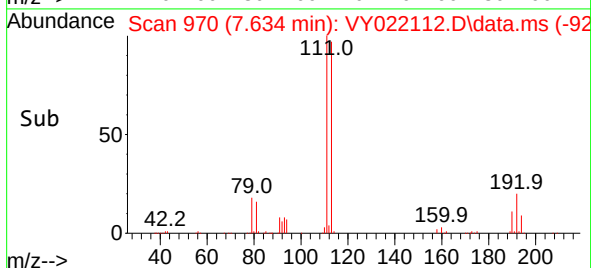
Reviewed By :Semsettin Yesilyurt 05/05/2025  
Supervised By :Mahesh Dadoda 05/05/2025

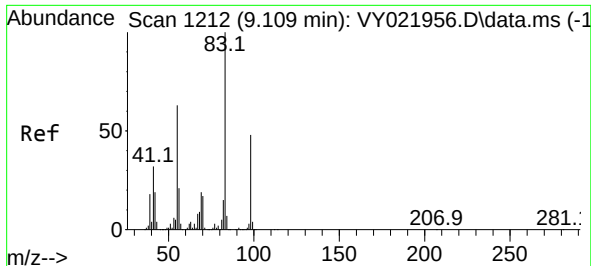


#35  
Dibromofluoromethane  
Concen: 49.121 ug/l  
RT: 7.634 min Scan# 970  
Delta R.T. -0.000 min  
Lab File: VY022112.D  
Acq: 01 May 2025 17:16



Tgt Ion:113 Resp: 192496  
Ion Ratio Lower Upper  
113 100  
111 101.6 81.8 122.8  
192 20.2 15.6 23.4





#39

Methylcyclohexane

Concen: 318.585 ug/l

RT: 9.109 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY022112.D

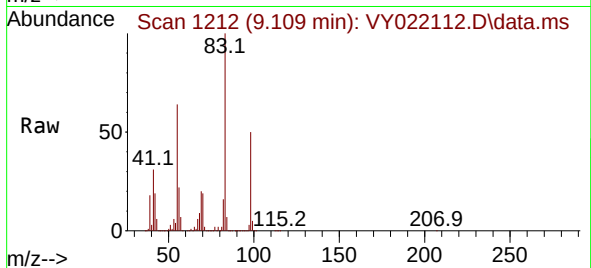
Acq: 01 May 2025 17:16

Instrument :

MSVOA\_Y

ClientSampleId :

SS-5



Tgt Ion: 83 Resp: 211046

Ion Ratio Lower Upper

83 100

55 64.1 50.6 75.8

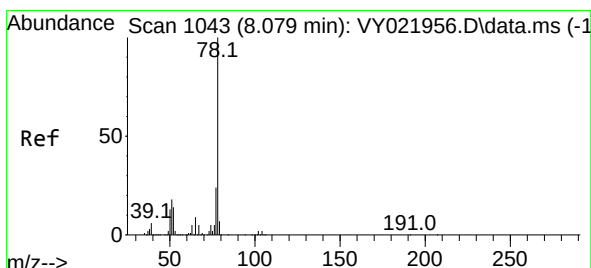
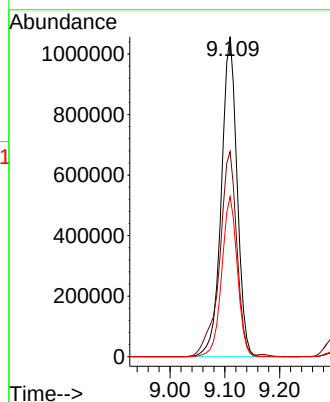
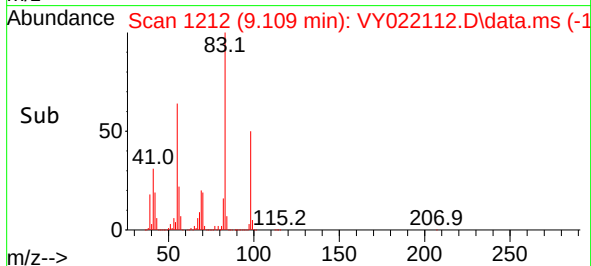
98 50.0 38.6 58.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/05/2025

Supervised By :Mahesh Dadoda 05/05/2025



#40

Benzene

Concen: 30.072 ug/l

RT: 8.079 min Scan# 1043

Delta R.T. -0.000 min

Lab File: VY022112.D

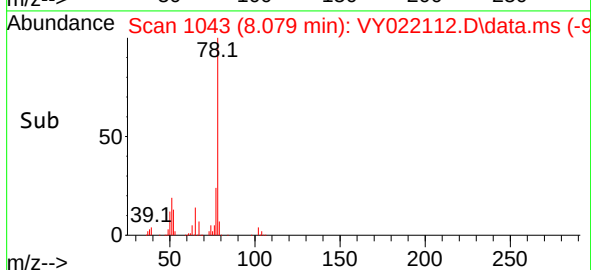
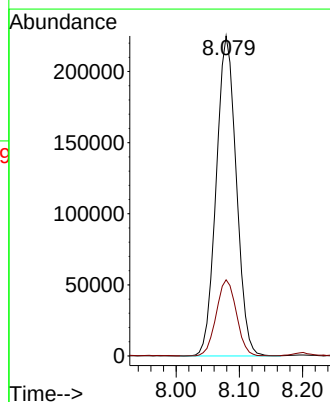
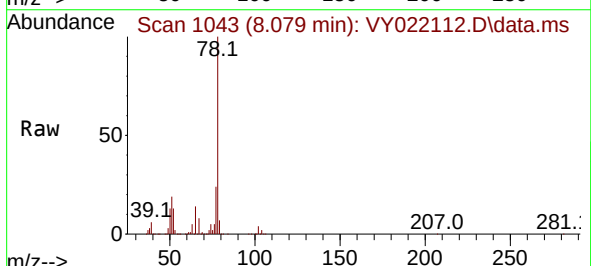
Acq: 01 May 2025 17:16

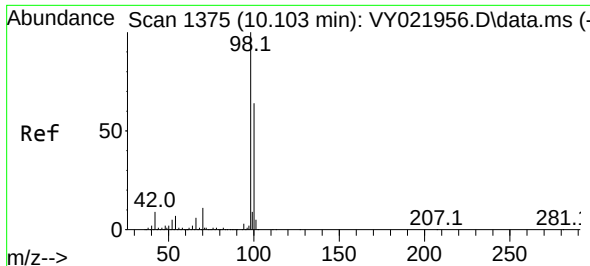
Tgt Ion: 78 Resp: 494837

Ion Ratio Lower Upper

78 100

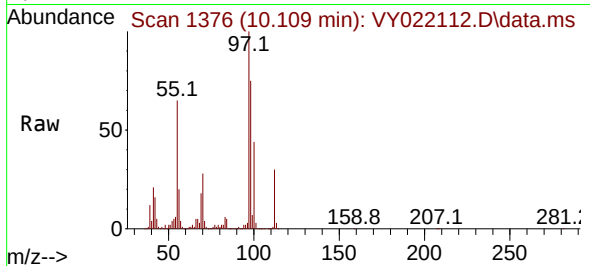
77 23.7 19.3 28.9





#50  
Toluene-d8  
Concen: 58.198 ug/l  
RT: 10.109 min Scan# 1375  
Delta R.T. 0.006 min  
Lab File: VY022112.D  
Acq: 01 May 2025 17:16

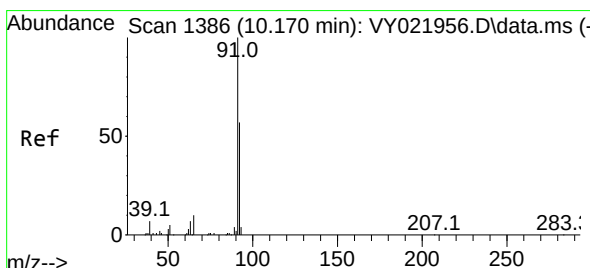
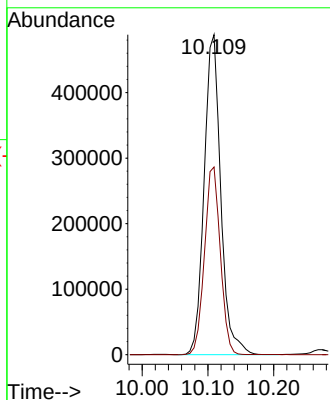
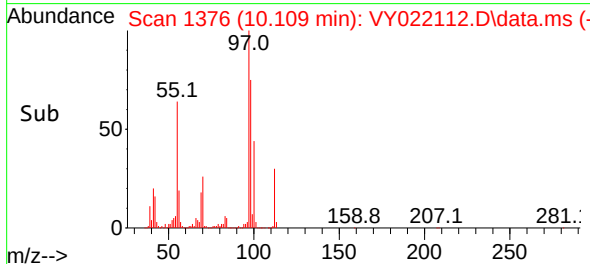
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SS-5



Tgt Ion: 98 Resp: 859815  
Ion Ratio Lower Upper  
98 100  
100 55.7 51.6 77.4

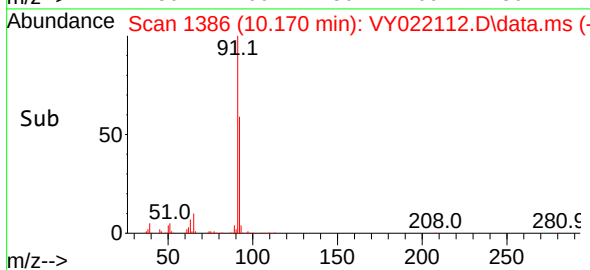
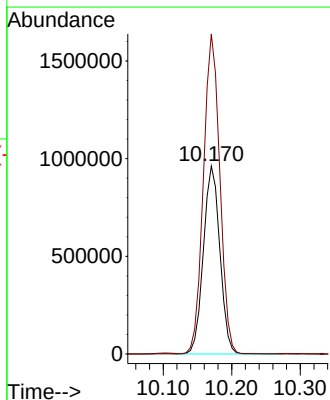
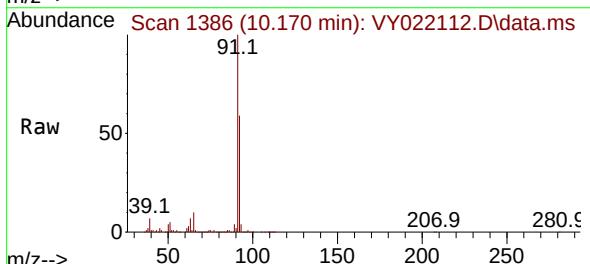
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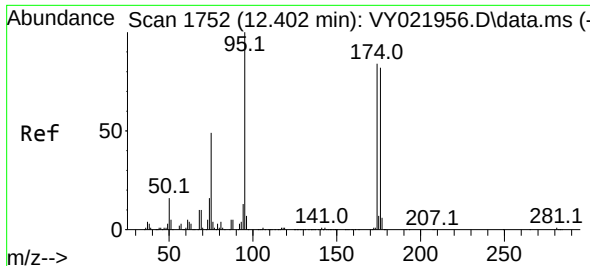


#52  
Toluene  
Concen: 150.607 ug/l  
RT: 10.170 min Scan# 1386  
Delta R.T. -0.000 min  
Lab File: VY022112.D  
Acq: 01 May 2025 17:16

Tgt Ion: 92 Resp: 1604199  
Ion Ratio Lower Upper  
92 100  
91 170.1 138.6 207.8

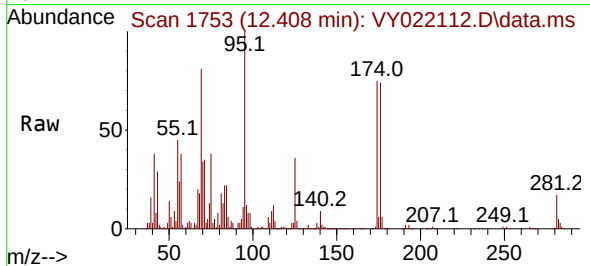






#62  
4-Bromofluorobenzene  
Concen: 55.541 ug/l  
RT: 12.408 min Scan# 1753  
Delta R.T. 0.006 min  
Lab File: VY022112.D  
Acq: 01 May 2025 17:16

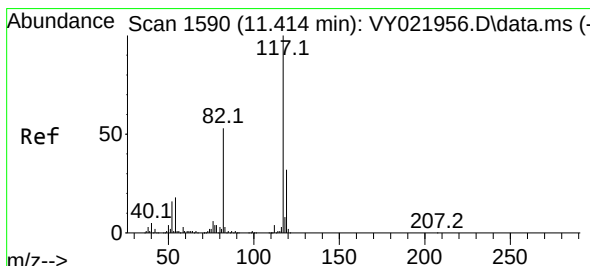
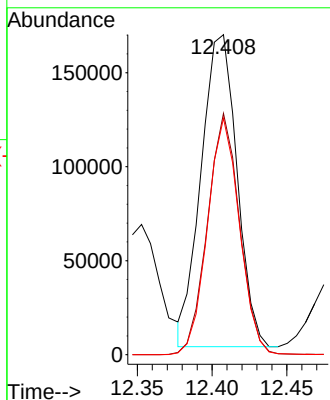
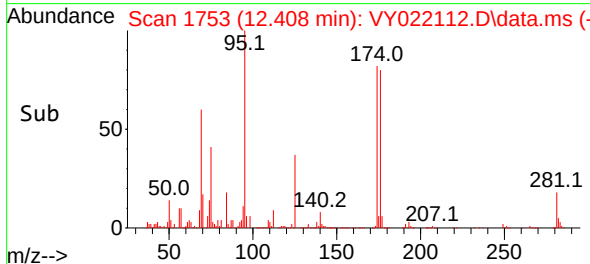
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SS-5



Tgt Ion: 95 Resp: 27623  
Ion Ratio Lower Upper  
95 100  
174 69.4 0.0 179.0  
176 67.6 0.0 171.8

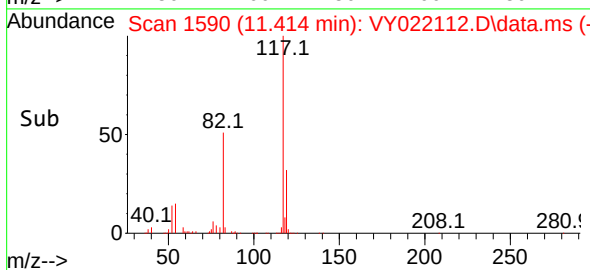
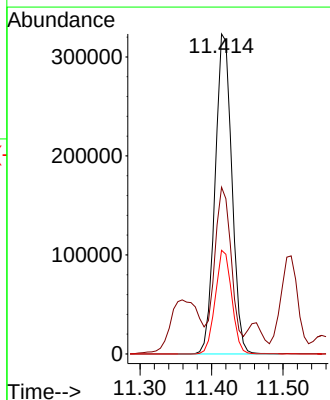
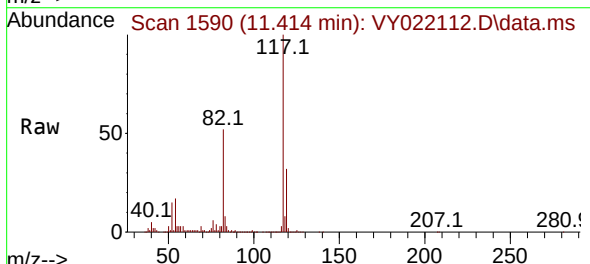
Manual Integrations  
APPROVED

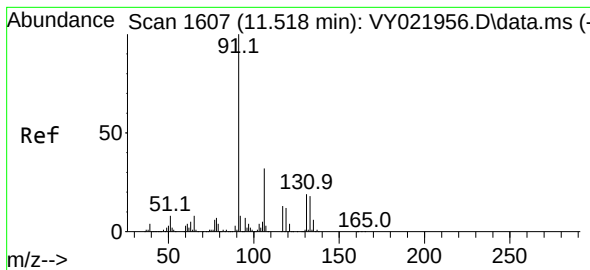
Reviewed By :Semsettin Yesilyurt 05/05/2025  
Supervised By :Mahesh Dadoda 05/05/2025



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.414 min Scan# 1590  
Delta R.T. -0.000 min  
Lab File: VY022112.D  
Acq: 01 May 2025 17:16

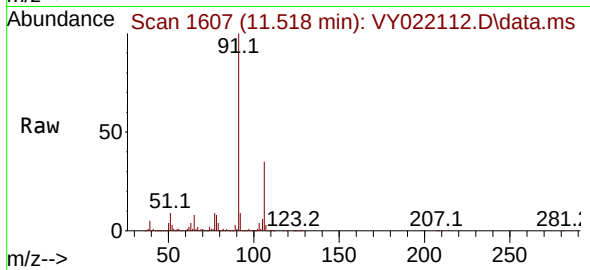
Tgt Ion:117 Resp: 525097  
Ion Ratio Lower Upper  
117 100  
82 40.0 42.1 63.1#  
119 32.4 25.7 38.5





#67  
Ethyl Benzene  
Concen: 483.316 ug/l  
RT: 11.518 min Scan# 1607  
Delta R.T. -0.000 min  
Lab File: VY022112.D  
Acq: 01 May 2025 17:16

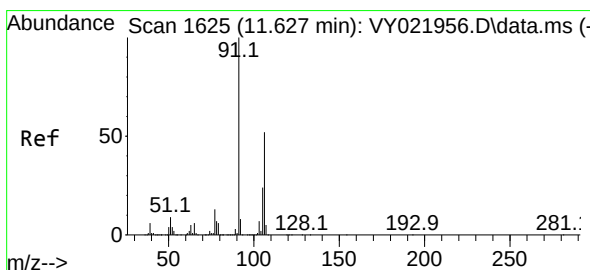
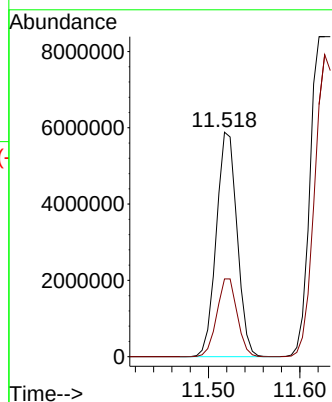
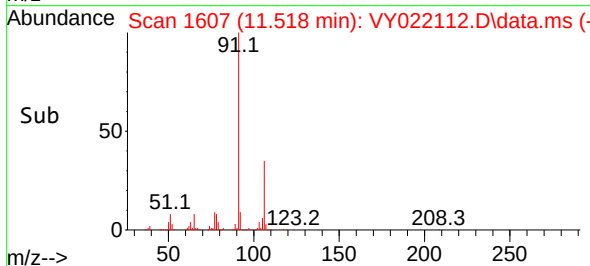
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SS-5



Tgt Ion: 91 Resp: 928395  
Ion Ratio Lower Upper  
91 100  
106 34.7 25.9 38.9

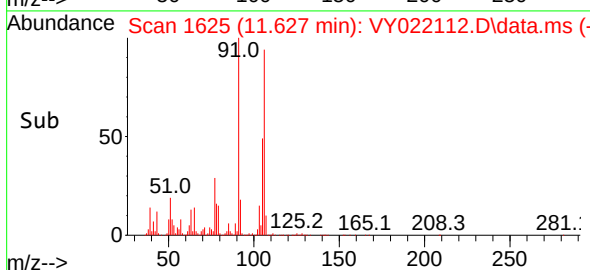
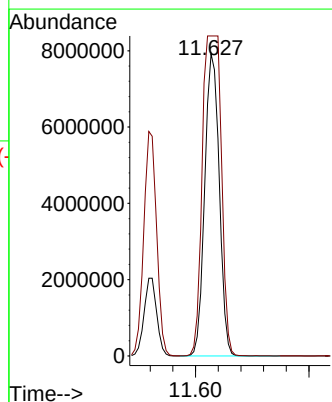
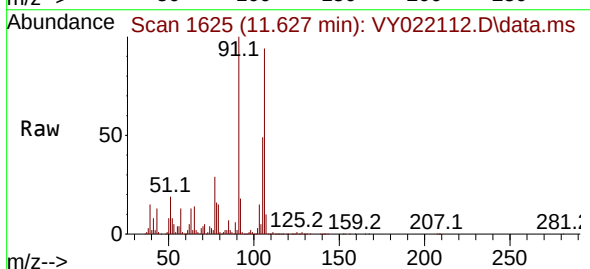
Manual Integrations  
APPROVED

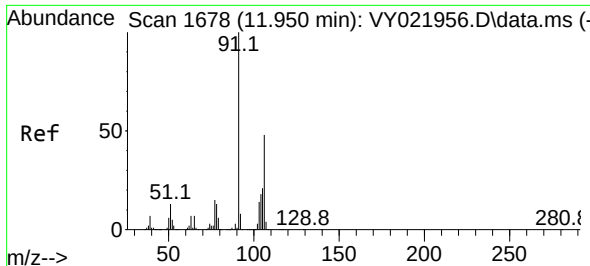
Reviewed By :Semsettin Yesilyurt 05/05/2025  
Supervised By :Mahesh Dadoda 05/05/2025



#68  
m/p-Xylenes  
Concen: 1840.340 ug/l  
RT: 11.627 min Scan# 1625  
Delta R.T. -0.000 min  
Lab File: VY022112.D  
Acq: 01 May 2025 17:16

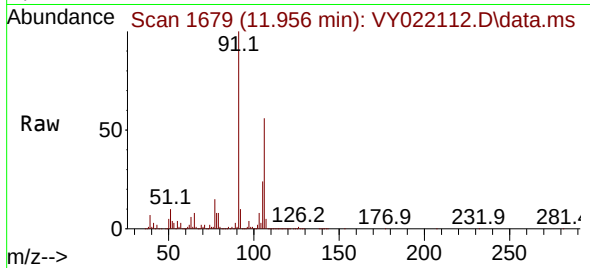
Tgt Ion:106 Resp:14066887  
Ion Ratio Lower Upper  
106 100  
91 139.2 156.2 234.2#





#69  
o-Xylene  
Concen: 941.942 ug/l  
RT: 11.956 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VY022112.D  
Acq: 01 May 2025 17:16

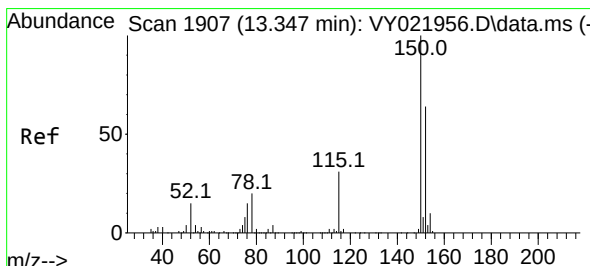
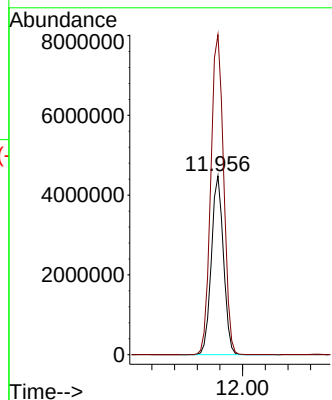
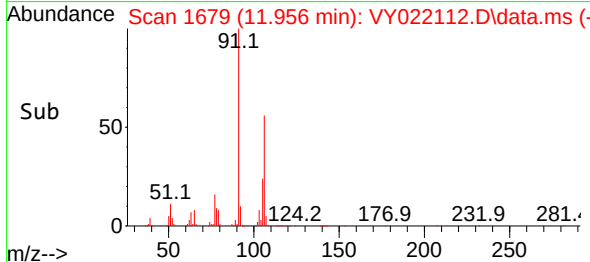
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SS-5



Tgt Ion:106 Resp: 663601  
Ion Ratio Lower Upper  
106 100  
91 190.6 103.0 308.9

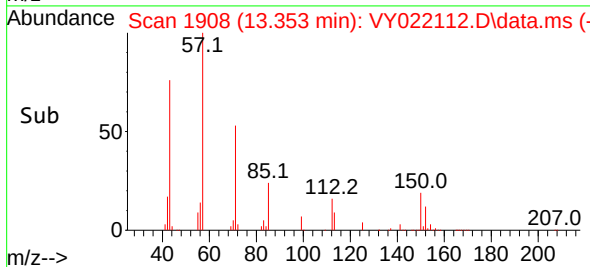
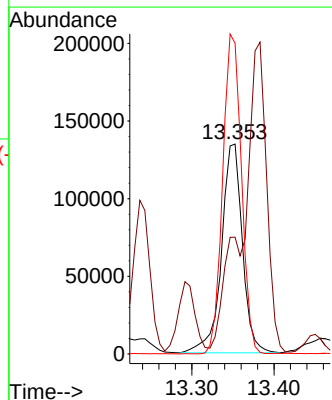
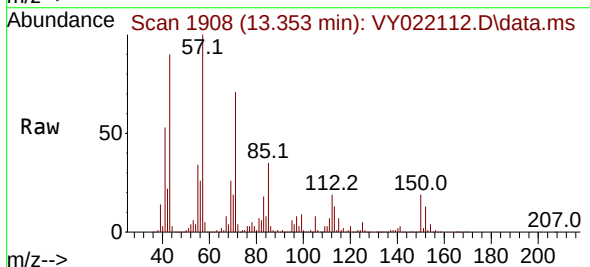
Manual Integrations  
APPROVED

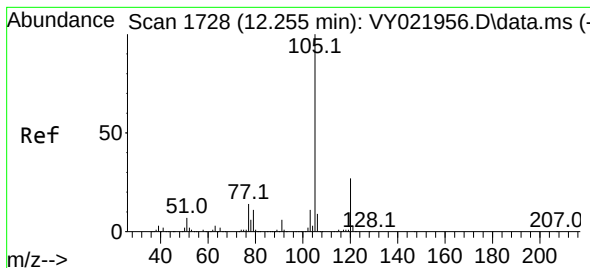
Reviewed By :Semsettin Yesilyurt 05/05/2025  
Supervised By :Mahesh Dadoda 05/05/2025



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.353 min Scan# 1908  
Delta R.T. 0.006 min  
Lab File: VY022112.D  
Acq: 01 May 2025 17:16

Tgt Ion:152 Resp: 237049  
Ion Ratio Lower Upper  
152 100  
115 0.0 28.0 84.0#  
150 137.8 0.0 345.6





#73

Isopropylbenzene

Concen: 118.726 ug/l

RT: 12.255 min Scan# 1728

Delta R.T. -0.000 min

Lab File: VY022112.D

Acq: 01 May 2025 17:16

Instrument :

MSVOA\_Y

ClientSampleId :

SS-5

Tgt Ion:105 Resp: 188030

Ion Ratio Lower Upper

105 100

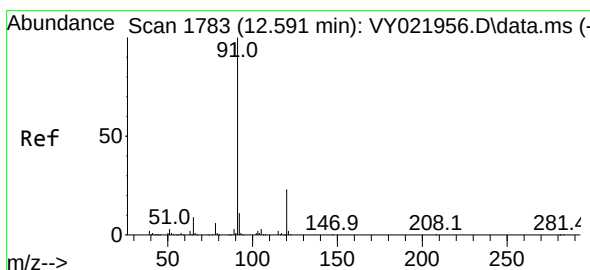
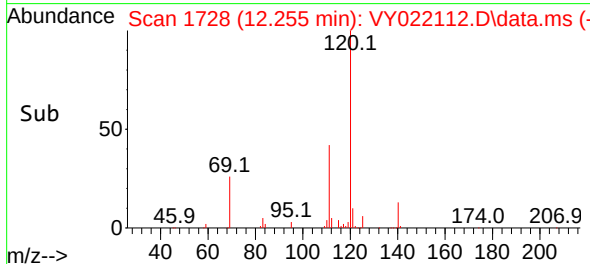
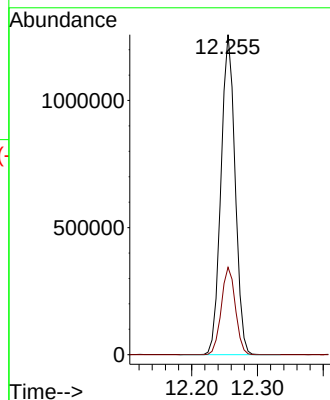
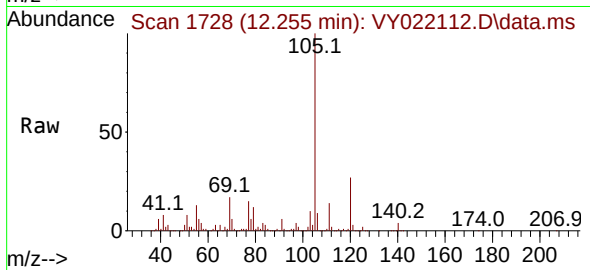
120 27.2 13.5 40.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/05/2025

Supervised By :Mahesh Dadoda 05/05/2025



#78

n-propylbenzene

Concen: 288.152 ug/l

RT: 12.597 min Scan# 1784

Delta R.T. 0.006 min

Lab File: VY022112.D

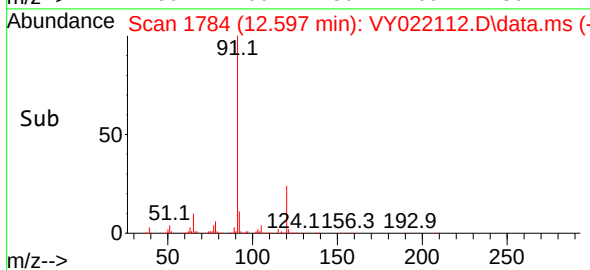
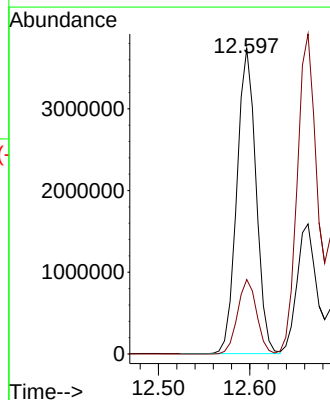
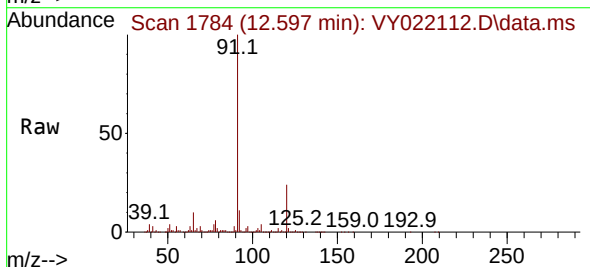
Acq: 01 May 2025 17:16

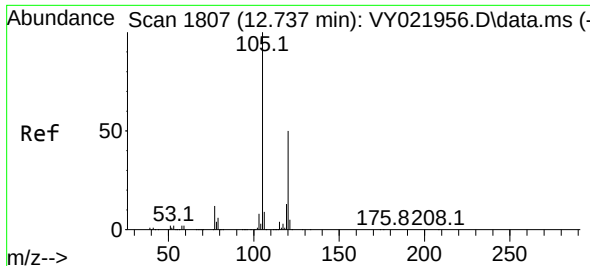
Tgt Ion: 91 Resp: 5434691

Ion Ratio Lower Upper

91 100

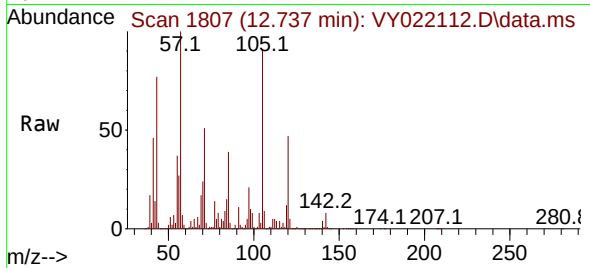
120 24.2 11.9 35.5





#80  
1,3,5-Trimethylbenzene  
Concen: 548.313 ug/l  
RT: 12.737 min Scan# 1807  
Delta R.T. -0.000 min  
Lab File: VY022112.D  
Acq: 01 May 2025 17:16

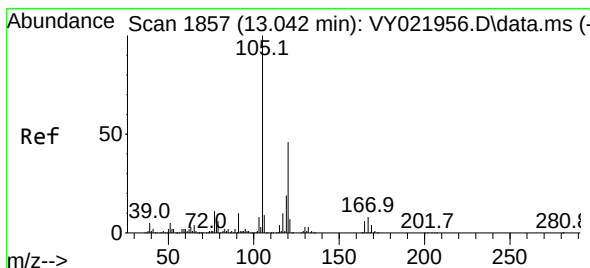
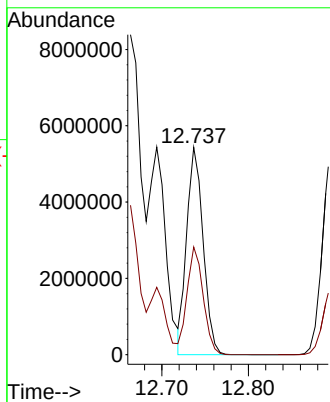
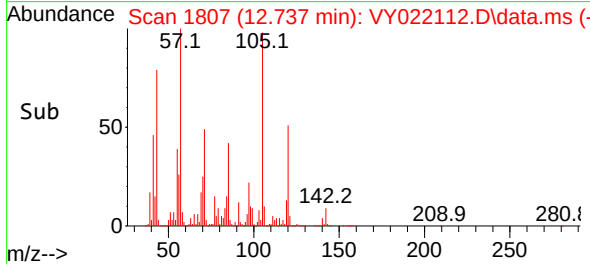
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SS-5



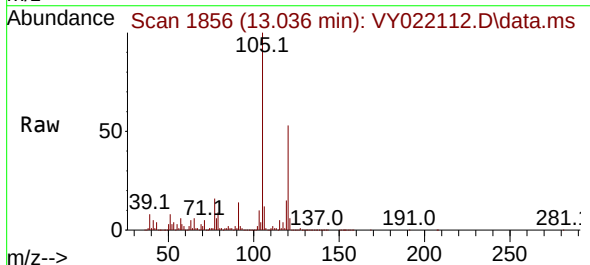
Tgt Ion:105 Resp: 715502  
Ion Ratio Lower Upper  
105 100  
120 51.0 25.0 75.0

Manual Integrations  
APPROVED

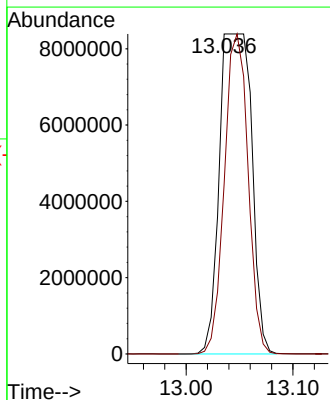
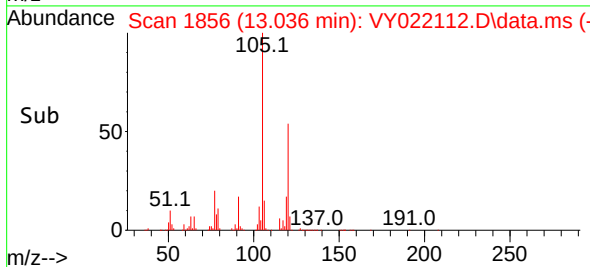
Reviewed By :Semsettin Yesilyurt 05/05/2025  
Supervised By :Mahesh Dadoda 05/05/2025

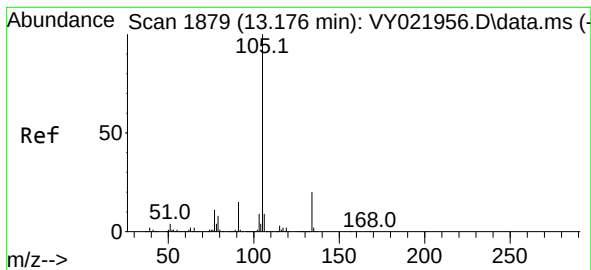


#84  
1,2,4-Trimethylbenzene  
Concen: 1348.866 ug/l m  
RT: 13.036 min Scan# 1856  
Delta R.T. -0.006 min  
Lab File: VY022112.D  
Acq: 01 May 2025 17:16



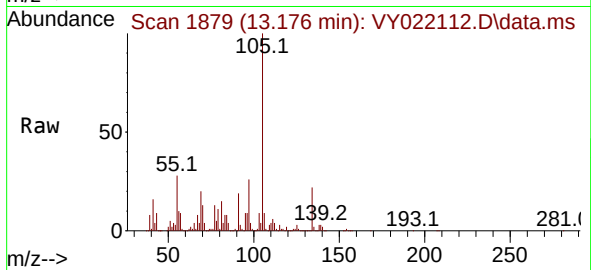
Tgt Ion:105 Resp:17605583  
Ion Ratio Lower Upper  
105 100  
120 15.4 23.4 70.0#





#85  
 sec-Butylbenzene  
 Concen: 89.913 ug/l  
 RT: 13.176 min Scan# 1879  
 Delta R.T. -0.000 min  
 Lab File: VY022112.D  
 Acq: 01 May 2025 17:16

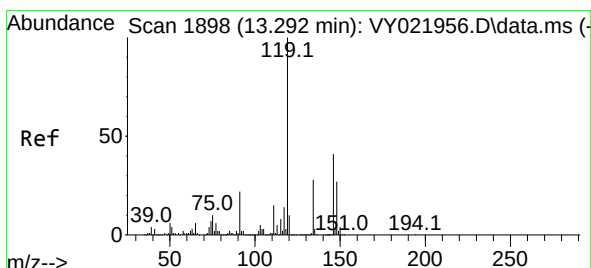
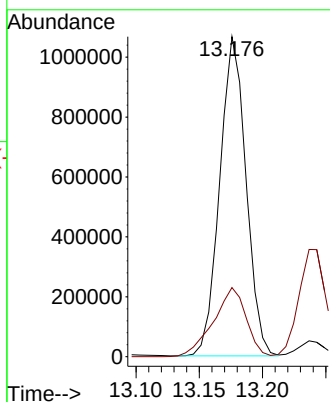
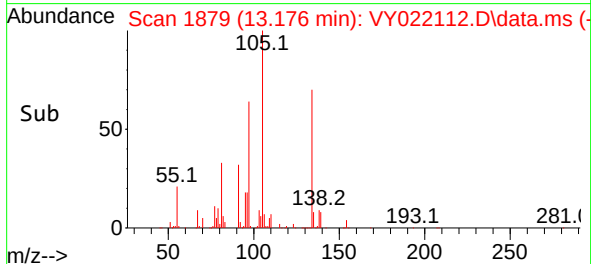
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 SS-5



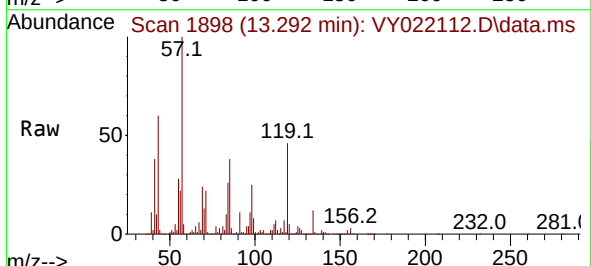
Tgt Ion:105 Resp: 153977  
 Ion Ratio Lower Upper  
 105 100  
 134 27.0 10.3 30.9

Manual Integrations  
 APPROVED

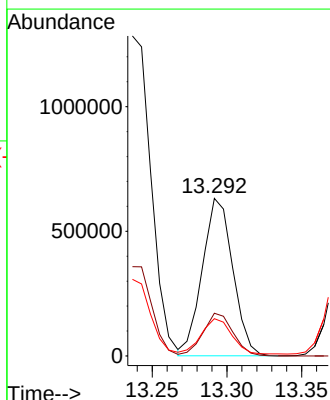
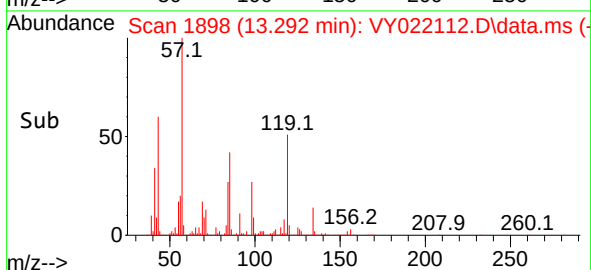
Reviewed By :Semsettin Yesilyurt 05/05/2025  
 Supervised By :Mahesh Dadoda 05/05/2025

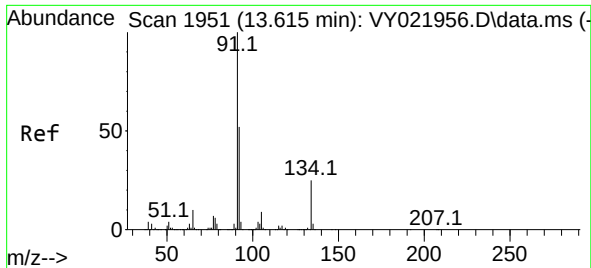


#86  
 p-Isopropyltoluene  
 Concen: 61.680 ug/l  
 RT: 13.292 min Scan# 1898  
 Delta R.T. -0.000 min  
 Lab File: VY022112.D  
 Acq: 01 May 2025 17:16



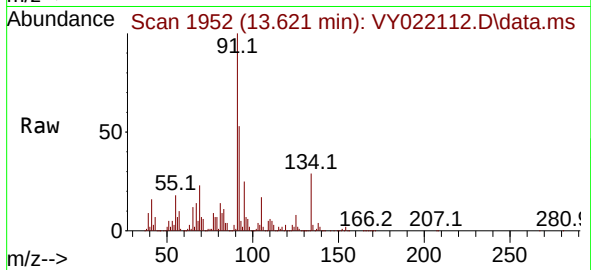
Tgt Ion:119 Resp: 896938  
 Ion Ratio Lower Upper  
 119 100  
 134 26.7 13.6 40.7  
 91 22.2 11.0 33.0





#89  
n-Butylbenzene  
Concen: 119.343 ug/l  
RT: 13.621 min Scan# 1952  
Delta R.T. 0.006 min  
Lab File: VY022112.D  
Acq: 01 May 2025 17:16

Instrument :  
MSVOA\_Y  
ClientSampleId :  
SS-5



Tgt Ion: 91 Resp: 155122  
Ion Ratio Lower Upper  
91 100  
92 64.2 26.5 79.5  
134 0.0 13.4 40.1

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 05/05/2025  
Supervised By :Mahesh Dadoda 05/05/2025

