

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY102723\  
 Data File : VY016116.D  
 Acq On : 27 Oct 2023 20:04  
 Operator : SY/MD  
 Sample : 05107-08  
 Misc : 5.04g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 1078

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 11/01/2023  
 Supervised By :Semsettin Yesilyurt 11/01/2023

Quant Time: Oct 30 06:14:04 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y102623S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Oct 27 04:12:29 2023  
 Response via : Initial Calibration

| Compound                    | R.T.           | QIon | Response            | Conc     | Units  | Dev(Min) |
|-----------------------------|----------------|------|---------------------|----------|--------|----------|
| -----                       |                |      |                     |          |        |          |
| Internal Standards          |                |      |                     |          |        |          |
| 1) Pentafluorobenzene       | 7.795          | 168  | 181960              | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.691          | 114  | 288508              | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.496         | 117  | 229030              | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.428         | 152  | 80548               | 50.000   | ug/l   | # 0.00   |
| System Monitoring Compounds |                |      |                     |          |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.155          | 65   | 104254              | 57.620   | ug/l   | 0.01     |
| Spiked Amount 50.000        | Range 50 - 163 |      | Recovery = 115.240% |          |        |          |
| 35) Dibromofluoromethane    | 7.722          | 113  | 90637               | 49.764   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 54 - 147 |      | Recovery = 99.520%  |          |        |          |
| 50) Toluene-d8              | 10.185         | 98   | 384720              | 57.025   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 58 - 134 |      | Recovery = 114.040% |          |        |          |
| 62) 4-Bromofluorobenzene    | 12.483         | 95   | 103283              | 44.629   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 30 - 143 |      | Recovery = 89.260%  |          |        |          |
| Target Compounds            |                |      |                     |          |        |          |
|                             |                |      |                     |          |        | Qvalue   |
| 16) Acetone                 | 3.948          | 43   | 119300              | 243.263  | ug/l   | 96       |
| 17) Carbon Disulfide        | 4.204          | 76   | 13176               | 3.063    | ug/l   | 99       |
| 18) Methyl Acetate          | 4.485          | 43   | 4083                | 2.355    | ug/l # | 88       |
| 20) Methylene Chloride      | 4.722          | 84   | 29127               | 10.666   | ug/l # | 80       |
| 31) Cyclohexane             | 7.789          | 56   | 874164              | 307.104  | ug/l   | 91       |
| 39) Methylcyclohexane       | 9.191          | 83   | 1741906             | 563.195  | ug/l   | 91       |
| 40) Benzene                 | 8.155          | 78   | 26091530m           | 3629.907 | ug/l   |          |
| 51) 4-Methyl-2-Pentanone    | 10.075         | 43   | 36560               | 28.477   | ug/l   | 94       |
| 52) Toluene                 | 10.252         | 92   | 17675985            | 3829.545 | ug/l # | 1        |
| 67) Ethyl Benzene           | 11.593         | 91   | 5023607             | 628.395  | ug/l   | 97       |
| 68) m/p-Xylenes             | 11.703         | 106  | 9056467             | 2927.356 | ug/l   | 80       |
| 69) o-Xylene                | 12.032         | 106  | 4442270             | 1499.858 | ug/l   | 89       |
| 73) Isopropylbenzene        | 12.331         | 105  | 453966              | 80.083   | ug/l   | 99       |
| 78) n-propylbenzene         | 12.672         | 91   | 849596              | 123.781  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene  | 12.812         | 105  | 2816059             | 598.343  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene  | 13.123         | 105  | 5899481             | 1269.195 | ug/l   | 96       |
| 85) sec-Butylbenzene        | 13.257         | 105  | 165162m             | 26.507   | ug/l   |          |
| 86) p-Isopropyltoluene      | 13.373         | 119  | 218306              | 41.988   | ug/l   | 98       |
| 89) n-Butylbenzene          | 13.696         | 91   | 118758              | 24.486   | ug/l # | 58       |
| 95) Naphthalene             | 15.233         | 128  | 18715214            | 6558.114 | ug/l # | 88       |
| -----                       |                |      |                     |          |        |          |

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

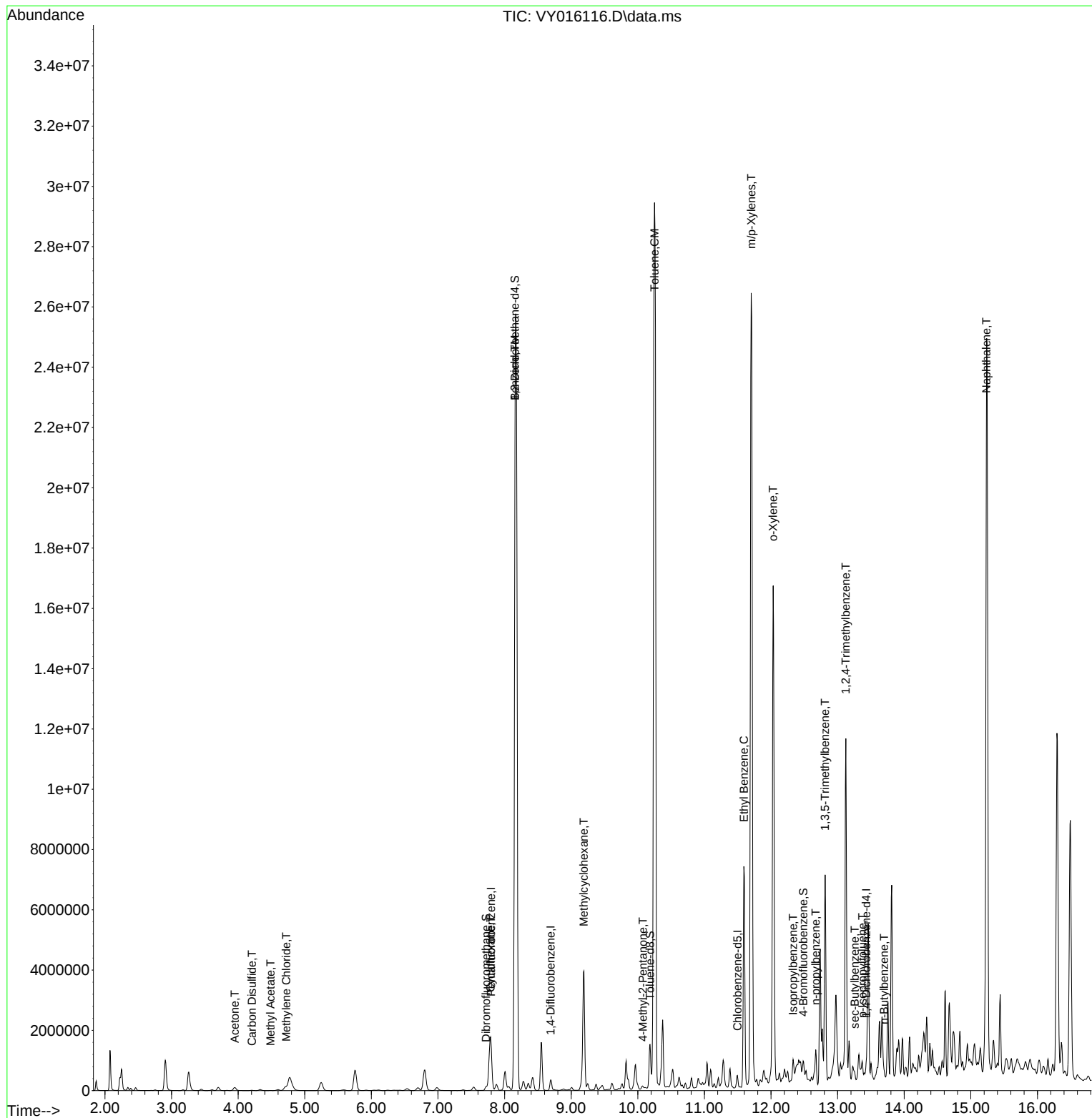
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY102723\  
Data File : VY016116.D  
Acq On : 27 Oct 2023 20:04  
Operator : SY/MD  
Sample : 05107-08  
Misc : 5.04g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 25 Sample Multiplier: 1

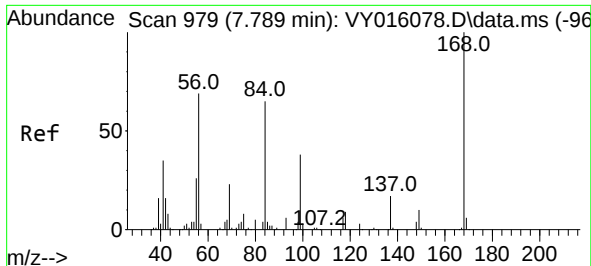
Instrument :  
MSVOA\_Y  
ClientSampleId :  
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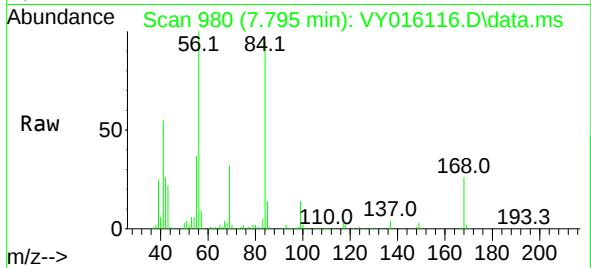
Quant Time: Oct 30 06:14:04 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y102623S.M  
Quant Title : SW846 8260  
QLast Update : Fri Oct 27 04:12:29 2023  
Response via : Initial Calibration





#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.795 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY016116.D  
Acq: 27 Oct 2023 20:04

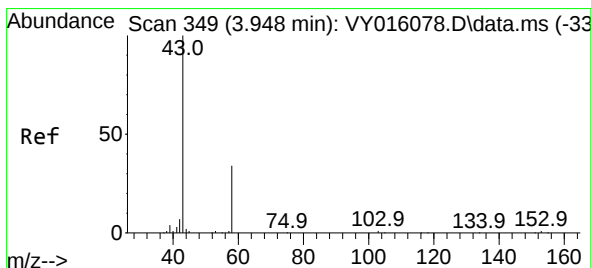
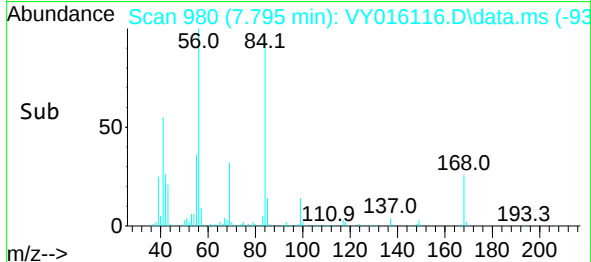
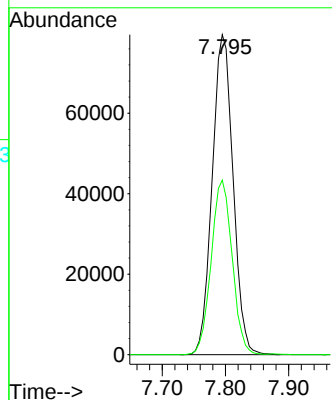
Instrument :  
MSVOA\_Y  
ClientSampleId :  
1078



Tgt Ion:168 Resp: 181960  
Ion Ratio Lower Upper  
168 100  
99 54.5 43.4 65.0

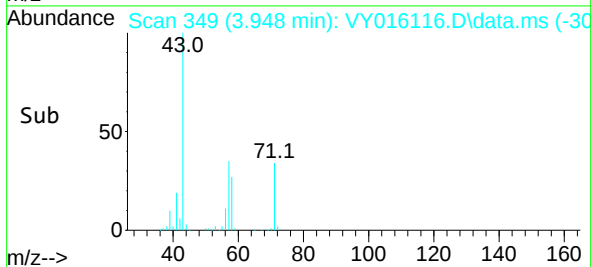
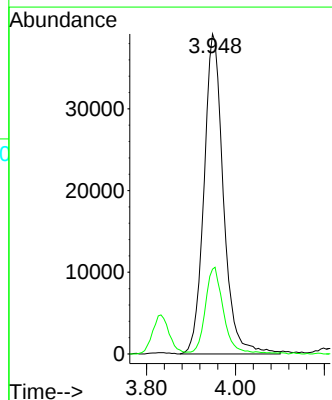
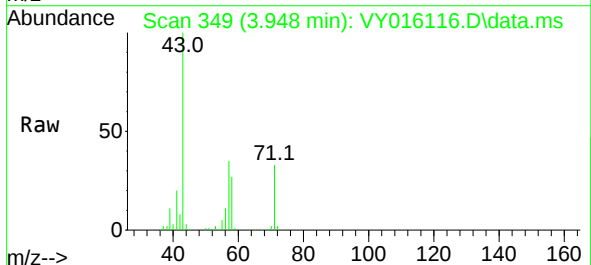
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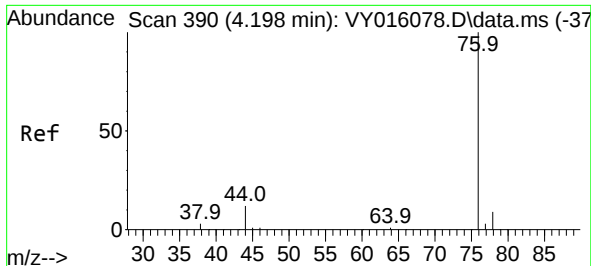
Reviewed By :Mahesh Dadoda 11/01/2023  
Supervised By :Semsettin Yesilyurt 11/01/2023



#16  
Acetone  
Concen: 243.263 ug/l  
RT: 3.948 min Scan# 349  
Delta R.T. -0.000 min  
Lab File: VY016116.D  
Acq: 27 Oct 2023 20:04

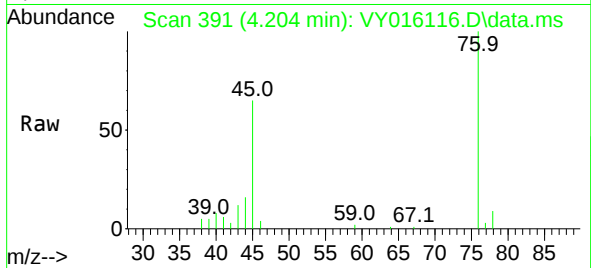
Tgt Ion: 43 Resp: 119300  
Ion Ratio Lower Upper  
43 100  
58 26.2 22.7 34.1





#17  
Carbon Disulfide  
Concen: 3.063 ug/l  
RT: 4.204 min Scan# 391  
Delta R.T. 0.006 min  
Lab File: VY016116.D  
Acq: 27 Oct 2023 20:04

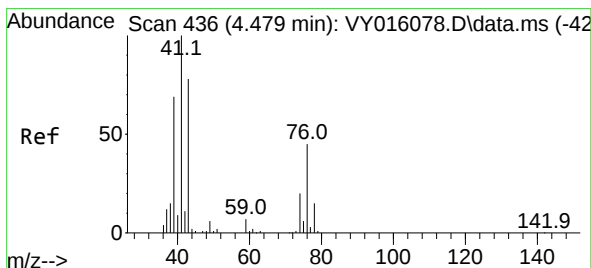
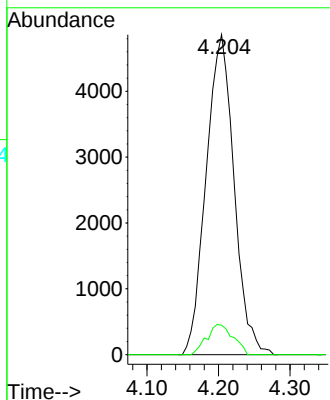
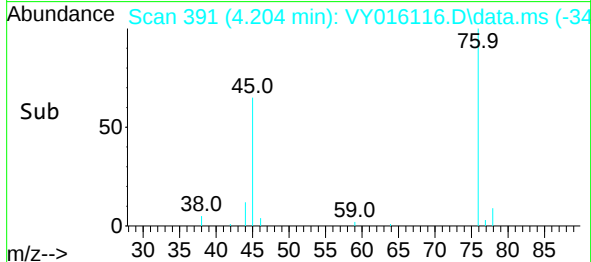
Instrument :  
MSVOA\_Y  
ClientSampleId :  
1078



Tgt Ion: 76 Resp: 13170  
Ion Ratio Lower Upper  
76 100  
78 9.2 7.0 10.4

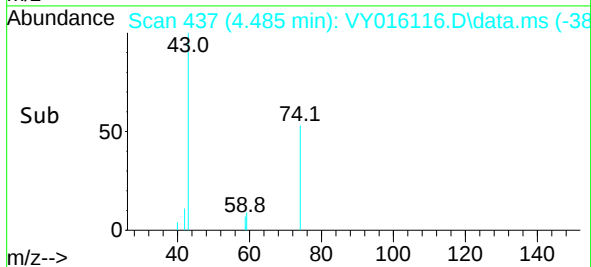
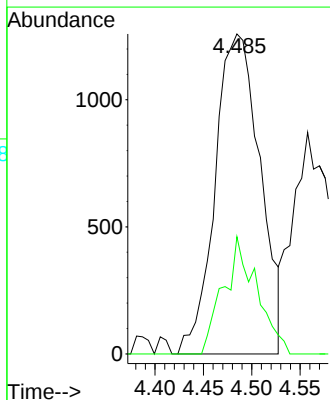
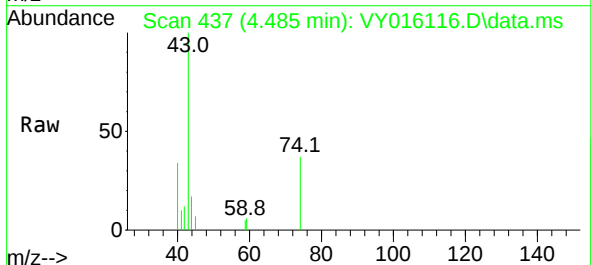
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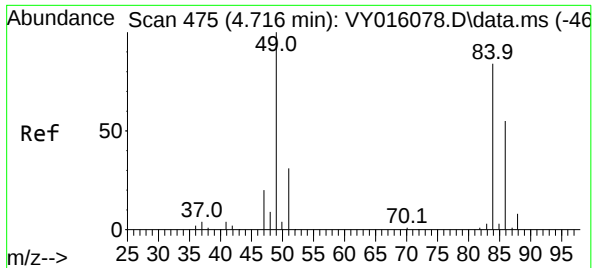
Reviewed By :Mahesh Dadoda 11/01/2023  
Supervised By :Semsettin Yesilyurt 11/01/2023



#18  
Methyl Acetate  
Concen: 2.355 ug/l  
RT: 4.485 min Scan# 437  
Delta R.T. 0.006 min  
Lab File: VY016116.D  
Acq: 27 Oct 2023 20:04

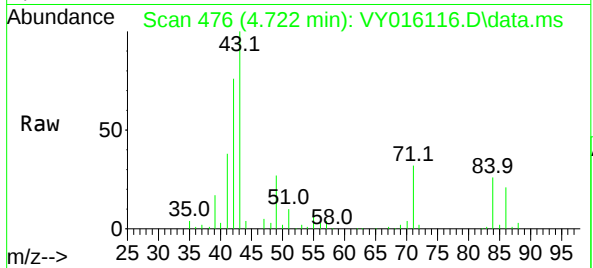
Tgt Ion: 43 Resp: 4083  
Ion Ratio Lower Upper  
43 100  
74 27.2 17.4 26.0#





#20  
Methylene Chloride  
Concen: 10.666 ug/l  
RT: 4.722 min Scan# 41  
Delta R.T. 0.006 min  
Lab File: VY016116.D  
Acq: 27 Oct 2023 20:04

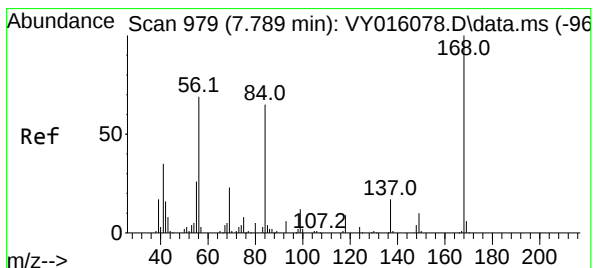
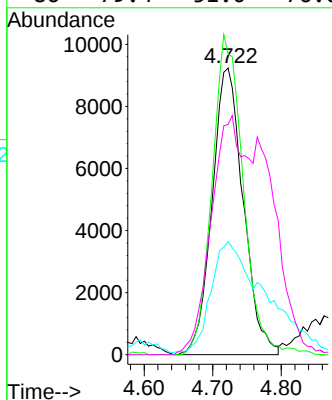
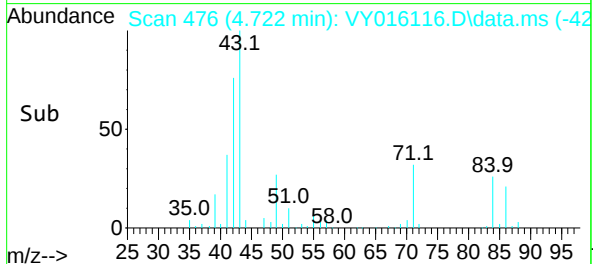
Instrument :  
MSVOA\_Y  
ClientSampleId :  
1078



Tgt Ion: 84 Resp: 2912  
Ion Ratio Lower Upper  
84 100  
49 104.9 106.9 160.3  
51 38.3 33.2 49.8  
86 79.4 51.0 76.6#

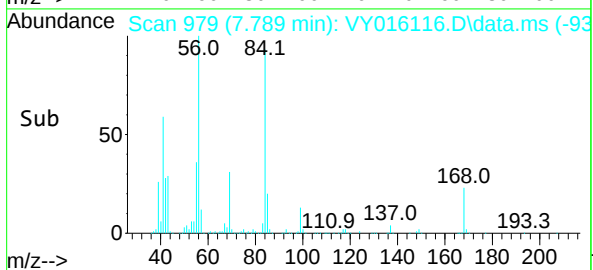
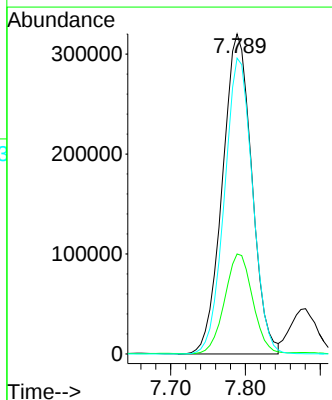
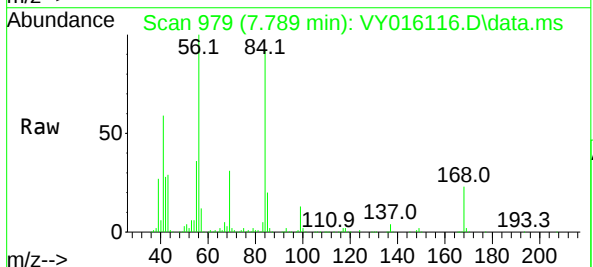
Manual Integrations  
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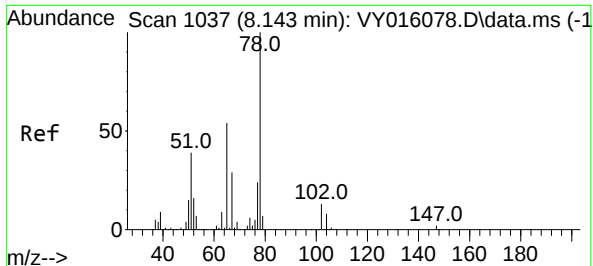
Reviewed By :Mahesh Dadoda 11/01/2023  
Supervised By :Semsettin Yesilyurt 11/01/2023



#31  
Cyclohexane  
Concen: 307.104 ug/l  
RT: 7.789 min Scan# 979  
Delta R.T. -0.000 min  
Lab File: VY016116.D  
Acq: 27 Oct 2023 20:04

Tgt Ion: 56 Resp: 874164  
Ion Ratio Lower Upper  
56 100  
69 31.1 27.8 41.6  
84 92.5 66.4 99.6





#33

1,2-Dichloroethane-d4

Concen: 57.620 ug/l

RT: 8.155 min Scan# 1037

Delta R.T. 0.012 min

Lab File: VY016116.D

Acq: 27 Oct 2023 20:04

Instrument :

MSVOA\_Y

ClientSampleId :

1078

Tgt Ion: 65 Resp: 104254

Ion Ratio Lower Upper

65 100

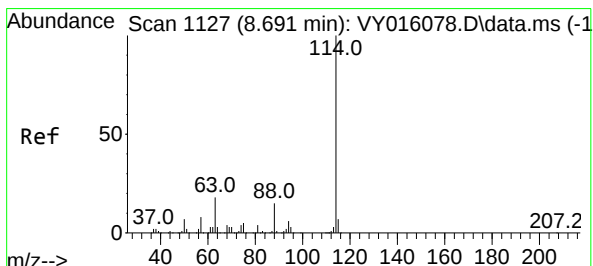
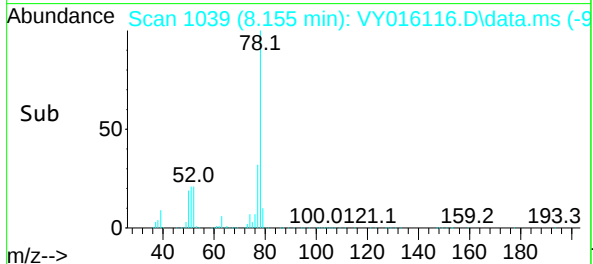
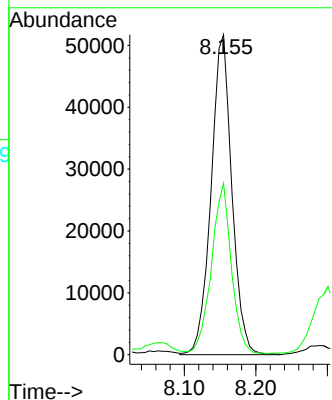
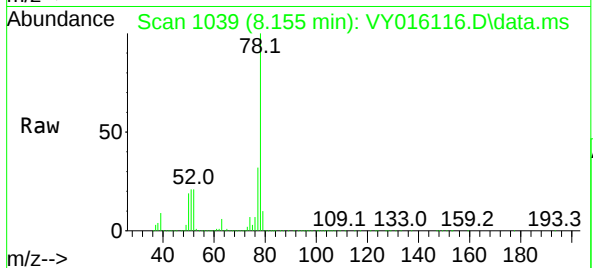
67 51.0 0.0 101.8

Manual Integrations

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VY016116.D

Acq: 27 Oct 2023 20:04

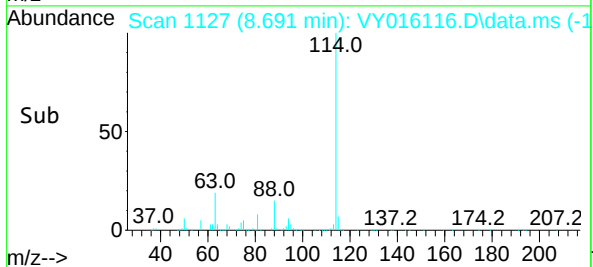
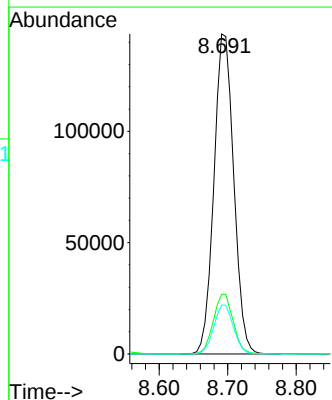
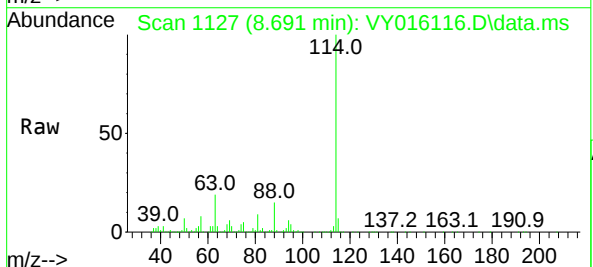
Tgt Ion:114 Resp: 288508

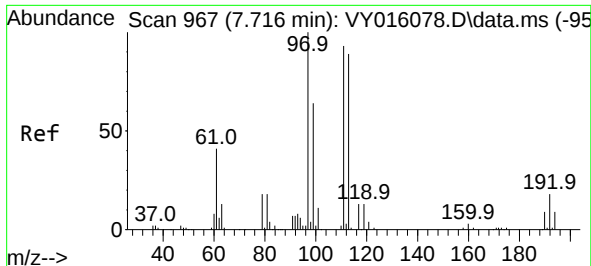
Ion Ratio Lower Upper

114 100

63 18.6 0.0 42.4

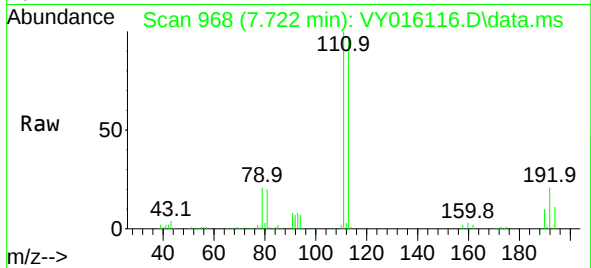
88 15.3 0.0 30.6





#35  
Dibromofluoromethane  
Concen: 49.764 ug/l  
RT: 7.722 min Scan# 9063  
Delta R.T. 0.006 min  
Lab File: VY016116.D  
Acq: 27 Oct 2023 20:04

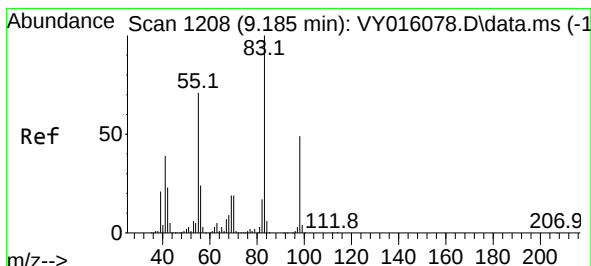
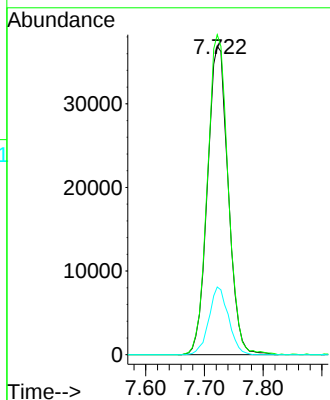
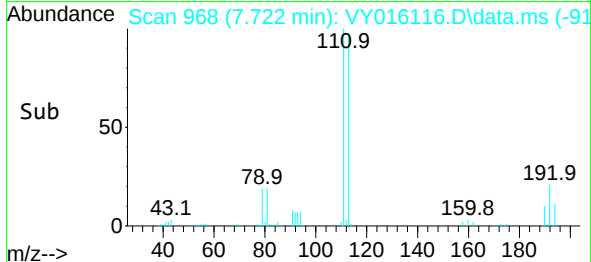
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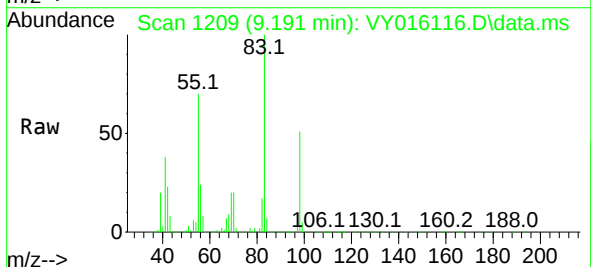
Tgt Ion:113 Resp: 9063  
Ion Ratio Lower Upper  
113 100  
111 103.3 81.3 121.9  
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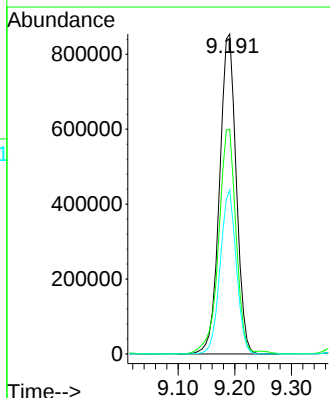
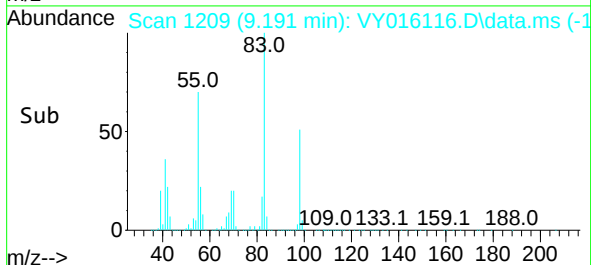
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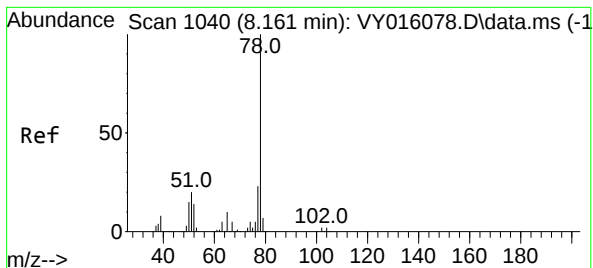


#39  
Methylcyclohexane  
Concen: 563.195 ug/l  
RT: 9.191 min Scan# 1209  
Delta R.T. 0.006 min  
Lab File: VY016116.D  
Acq: 27 Oct 2023 20:04



Tgt Ion: 83 Resp: 1741906  
Ion Ratio Lower Upper  
83 100  
55 70.2 63.0 94.4  
98 51.2 37.4 56.2





#40

Benzene

Concen: 3629.907 ug/l m

RT: 8.155 min Scan# 1039

Delta R.T. -0.006 min

Lab File: VY016116.D

Acq: 27 Oct 2023 20:04

Instrument :

MSVOA\_Y

ClientSampleId :

1078

Tgt Ion: 78 Resp:26091530

Ion Ratio Lower Upper

78 100

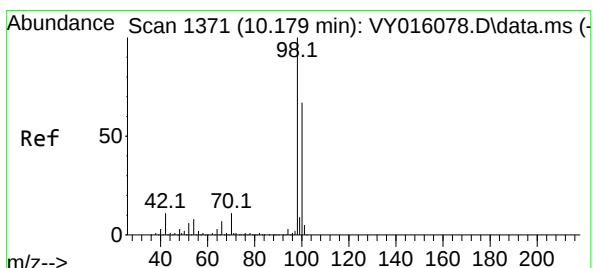
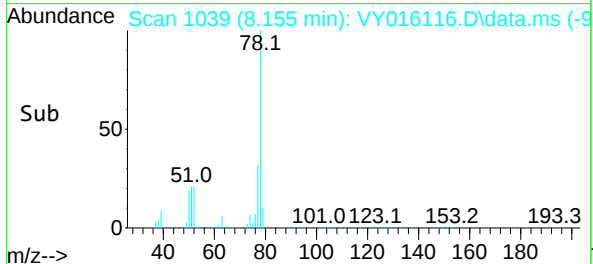
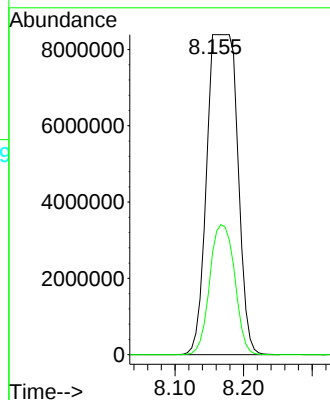
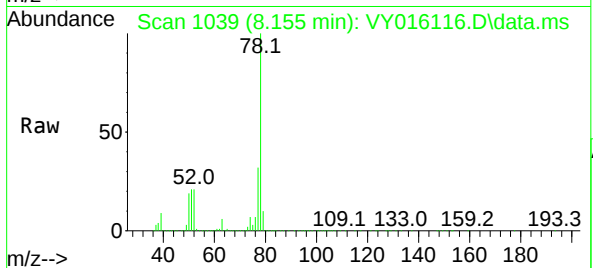
77 31.8 19.0 28.6

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Supervised By :Semsettin Yesilyurt 11/01/2023



#50

Toluene-d8

Concen: 57.025 ug/l

RT: 10.185 min Scan# 1372

Delta R.T. 0.006 min

Lab File: VY016116.D

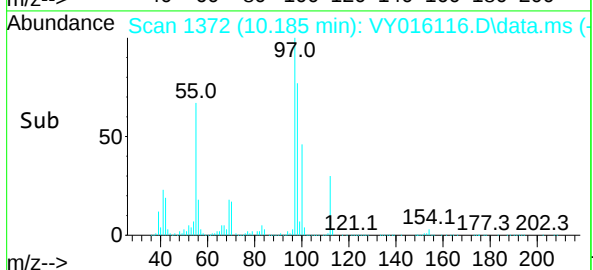
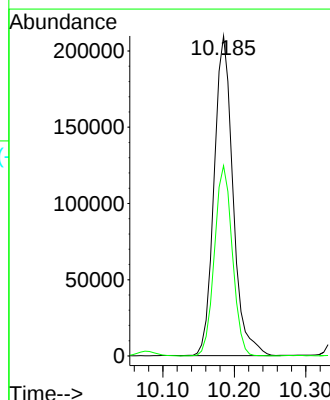
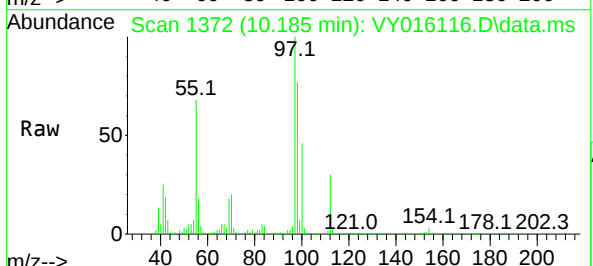
Acq: 27 Oct 2023 20:04

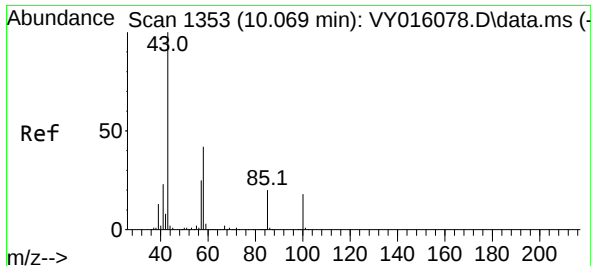
Tgt Ion: 98 Resp: 384720

Ion Ratio Lower Upper

98 100

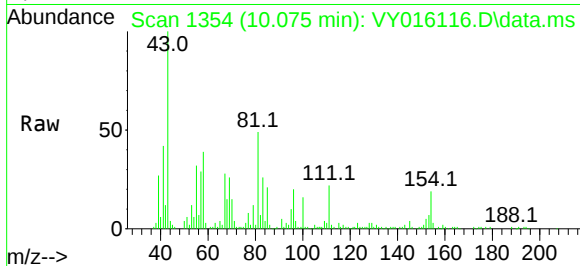
100 56.3 50.1 75.1





#51  
4-Methyl-2-Pentanone  
Concen: 28.477 ug/l  
RT: 10.075 min Scan# 11078  
Delta R.T. 0.006 min  
Lab File: VY016116.D  
Acq: 27 Oct 2023 20:04

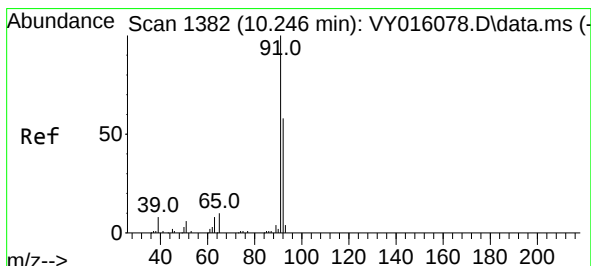
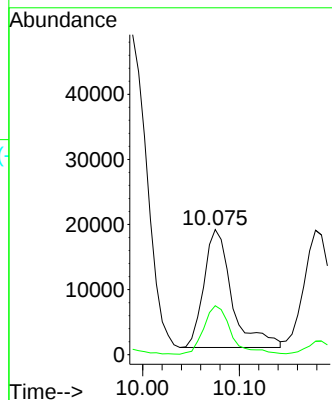
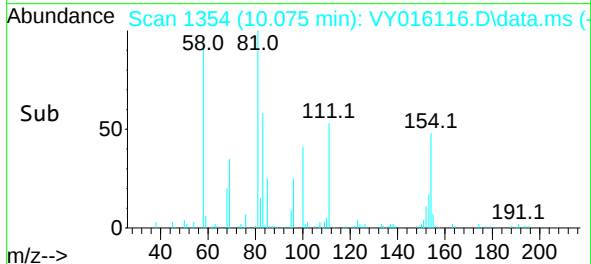
Instrument :  
MSVOA\_Y  
ClientSampleId :  
1078



Tgt Ion: 43 Resp: 36560  
Ion Ratio Lower Upper  
43 100  
58 40.0 29.0 43.6

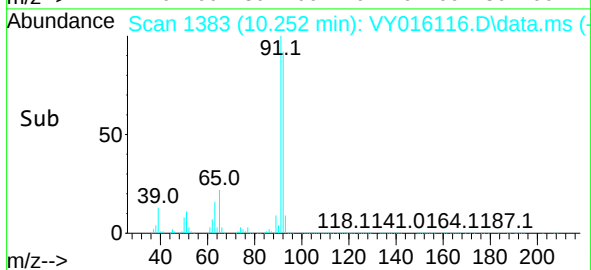
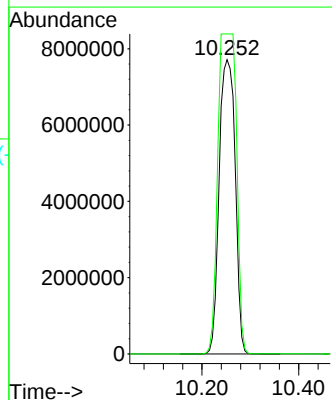
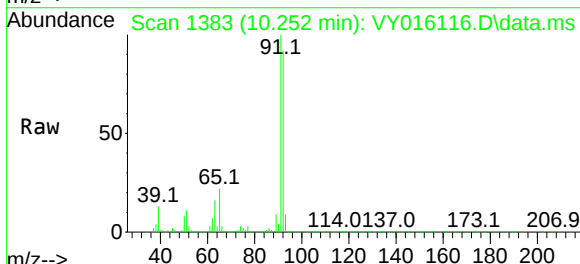
Manual Integrations  
APPROVED

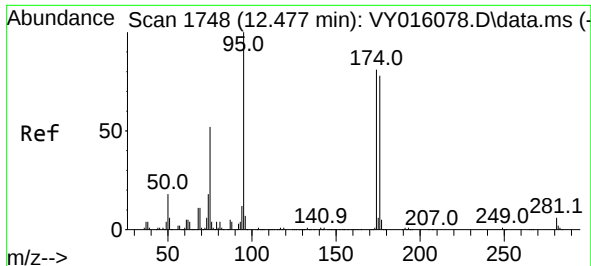
Reviewed By :Mahesh Dadoda 11/01/2023  
Supervised By :Semsettin Yesilyurt 11/01/2023



#52  
Toluene  
Concen: 3829.545 ug/l  
RT: 10.252 min Scan# 1383  
Delta R.T. 0.006 min  
Lab File: VY016116.D  
Acq: 27 Oct 2023 20:04

Tgt Ion: 92 Resp:17675985  
Ion Ratio Lower Upper  
92 100  
91 0.0 143.8 215.6#





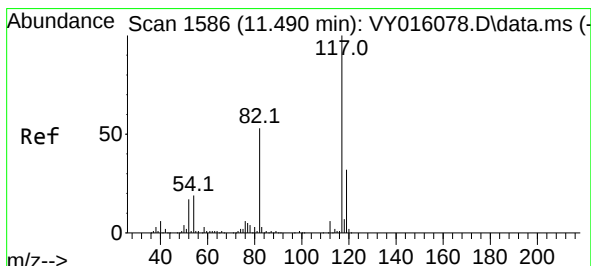
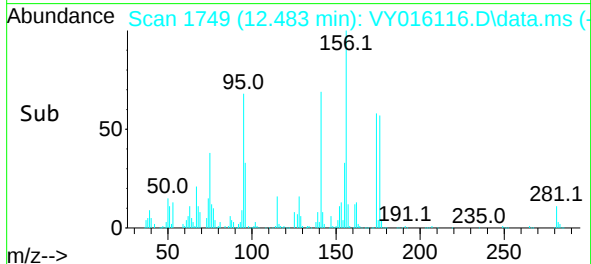
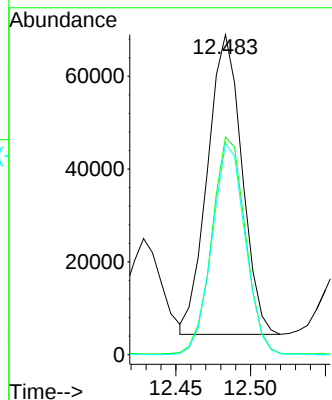
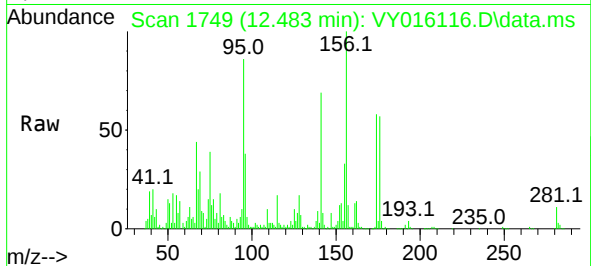
#62  
4-Bromofluorobenzene  
Concen: 44.629 ug/l  
RT: 12.483 min Scan# 1748  
Delta R.T. 0.006 min  
Lab File: VY016116.D  
Acq: 27 Oct 2023 20:04

Instrument :  
MSVOA\_Y  
ClientSampleId :  
1078

Tgt Ion: 95 Resp: 10328  
Ion Ratio Lower Upper  
95 100  
174 70.7 0.0 178.2  
176 68.0 0.0 173.8

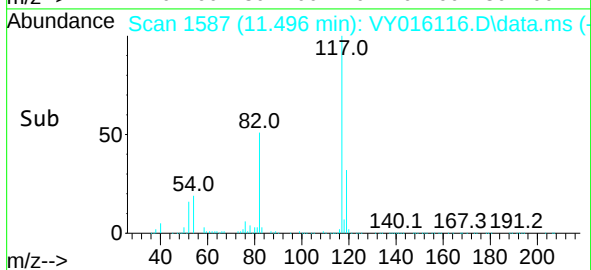
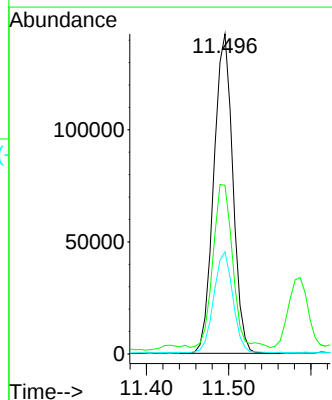
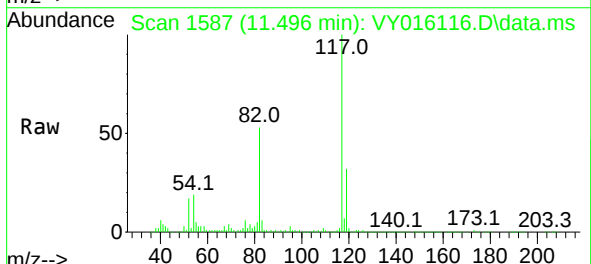
Manual Integrations  
APPROVED

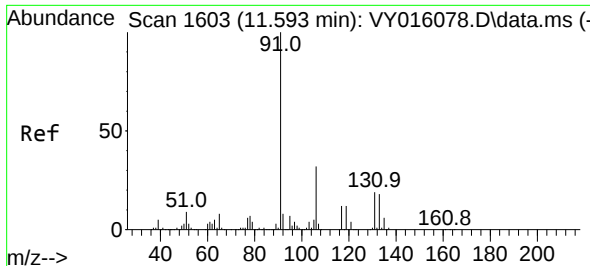
Reviewed By :Mahesh Dadoda 11/01/2023  
Supervised By :Semsettin Yesilyurt 11/01/2023



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.496 min Scan# 1587  
Delta R.T. 0.006 min  
Lab File: VY016116.D  
Acq: 27 Oct 2023 20:04

Tgt Ion:117 Resp: 229030  
Ion Ratio Lower Upper  
117 100  
82 50.6 43.4 65.0  
119 31.5 26.3 39.5





#67

Ethyl Benzene

Concen: 628.395 ug/l

RT: 11.593 min Scan# 1603

Delta R.T. -0.000 min

Lab File: VY016116.D

Acq: 27 Oct 2023 20:04

Instrument :

MSVOA\_Y

ClientSampleId :

1078

Tgt Ion: 91 Resp: 502360

Ion Ratio Lower Upper

91 100

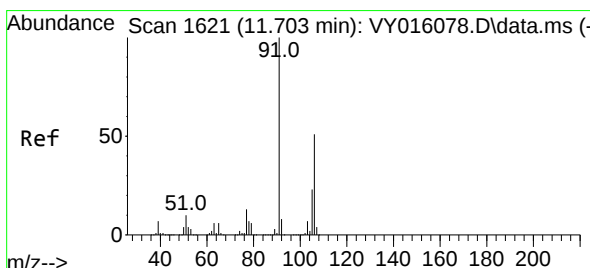
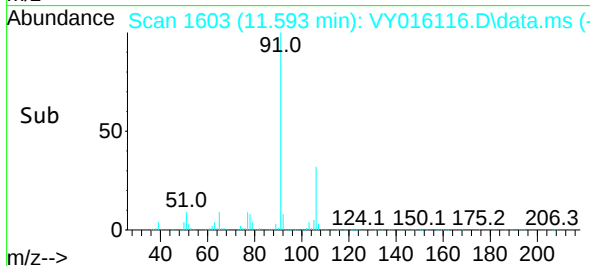
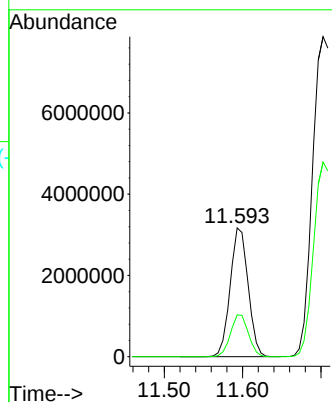
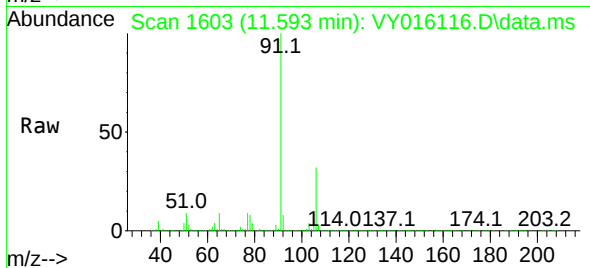
106 32.4 24.6 36.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/01/2023

Supervised By :Semsettin Yesilyurt 11/01/2023



#68

m/p-Xylenes

Concen: 2927.356 ug/l

RT: 11.703 min Scan# 1621

Delta R.T. -0.000 min

Lab File: VY016116.D

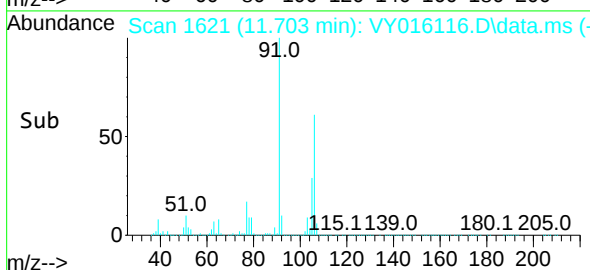
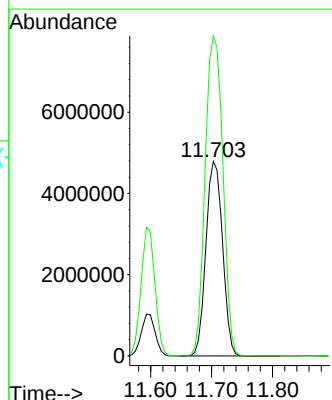
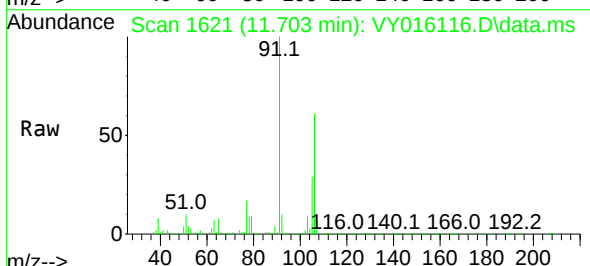
Acq: 27 Oct 2023 20:04

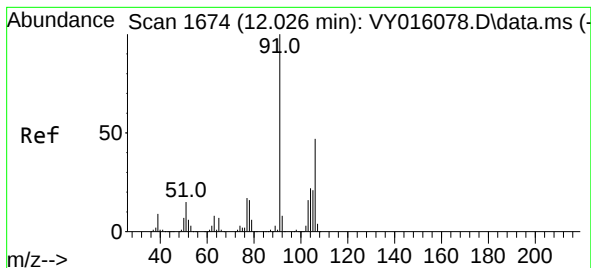
Tgt Ion:106 Resp: 9056467

Ion Ratio Lower Upper

106 100

91 176.0 166.1 249.1





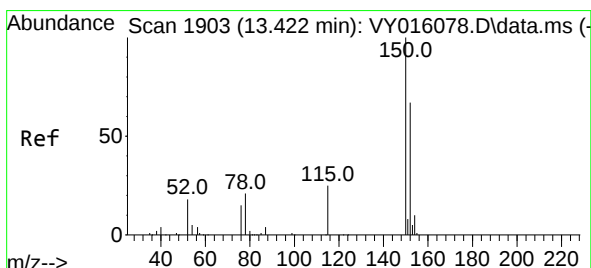
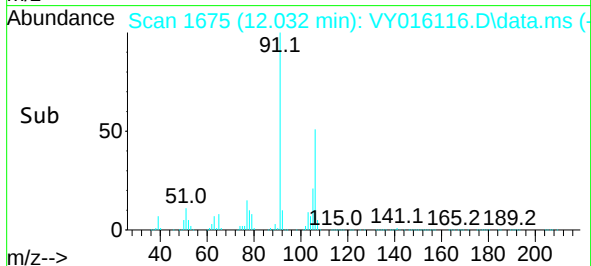
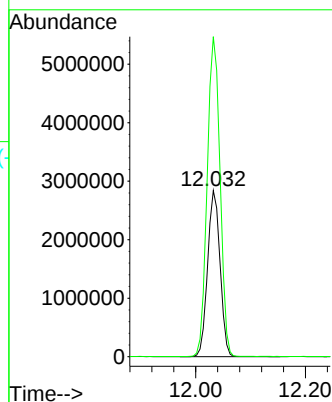
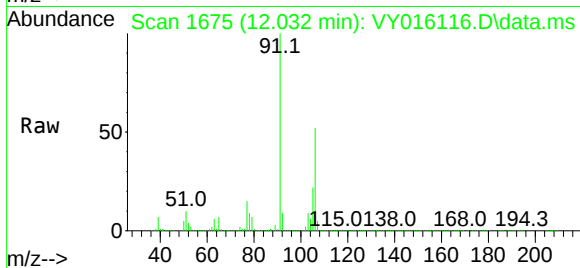
#69  
o-Xylene  
Concen: 1499.858 ug/l  
RT: 12.032 min Scan# 1078  
Delta R.T. 0.006 min  
Lab File: VY016116.D  
Acq: 27 Oct 2023 20:04

Instrument :  
MSVOA\_Y  
ClientSampleId :  
1078

Tgt Ion:106 Resp: 4442270  
Ion Ratio Lower Upper  
106 100  
91 199.3 108.1 324.3

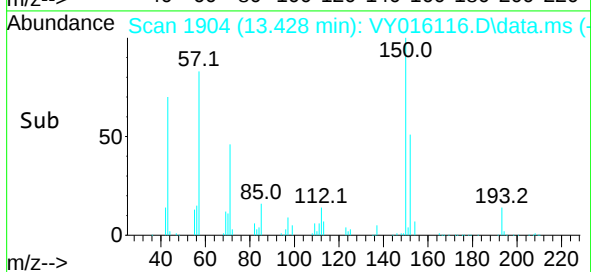
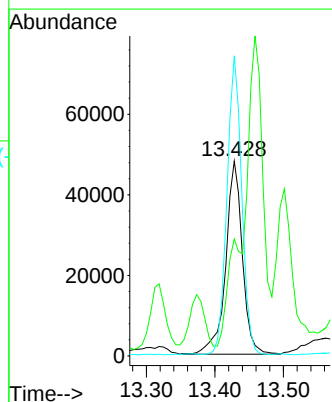
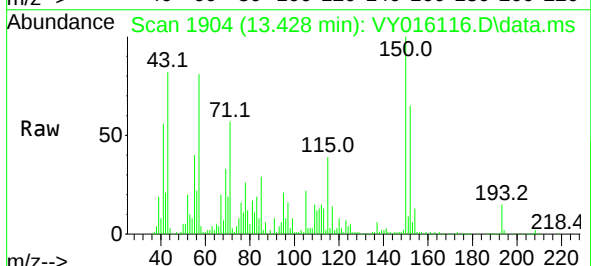
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APPROVED

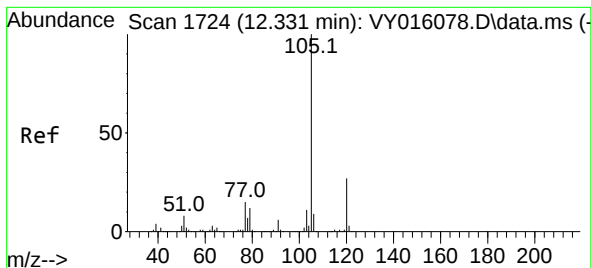
Reviewed By :Mahesh Dadoda 11/01/2023  
Supervised By :Semsettin Yesilyurt 11/01/2023



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.428 min Scan# 1904  
Delta R.T. 0.006 min  
Lab File: VY016116.D  
Acq: 27 Oct 2023 20:04

Tgt Ion:152 Resp: 80548  
Ion Ratio Lower Upper  
152 100  
115 0.0 28.8 86.5#  
150 136.9 0.0 348.8





#73

Isopropylbenzene

Concen: 80.083 ug/l

RT: 12.331 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY016116.D

Acq: 27 Oct 2023 20:04

Instrument :

MSVOA\_Y

ClientSampleId :

1078

Tgt Ion:105 Resp: 45396

Ion Ratio Lower Upper

105 100

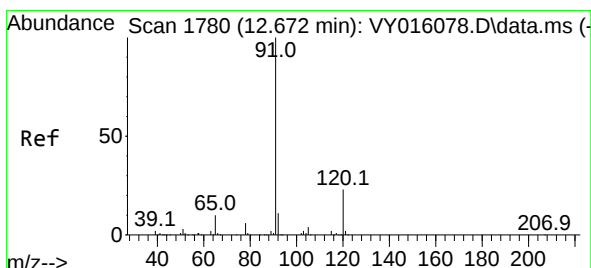
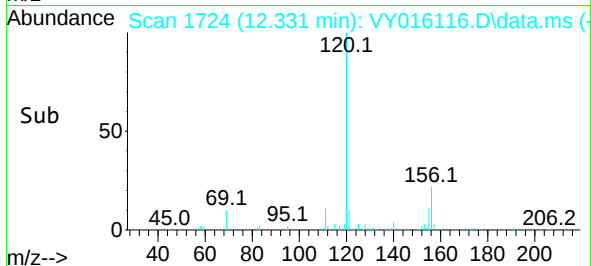
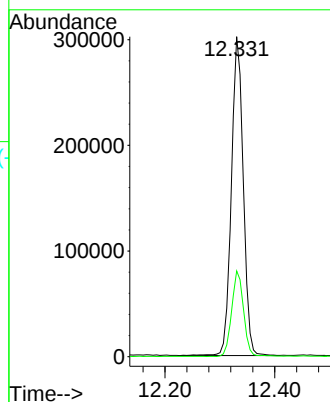
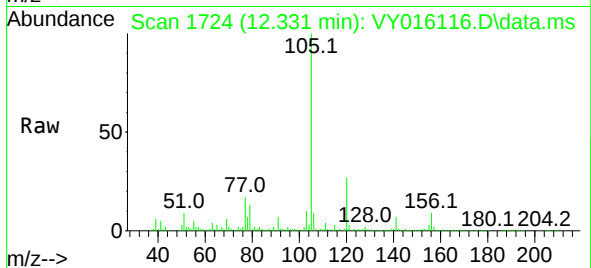
120 26.9 13.3 39.9

Manual Integrations

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Reviewed By :Mahesh Dadoda 11/01/2023

Supervised By :Semsettin Yesilyurt 11/01/2023



#78

n-propylbenzene

Concen: 123.781 ug/l

RT: 12.672 min Scan# 1780

Delta R.T. -0.000 min

Lab File: VY016116.D

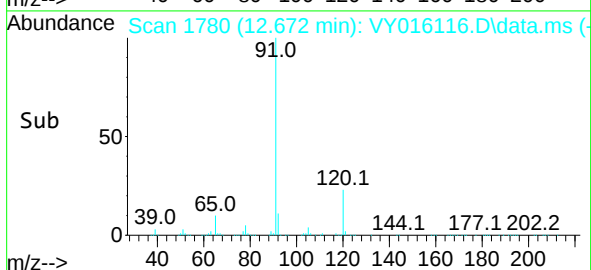
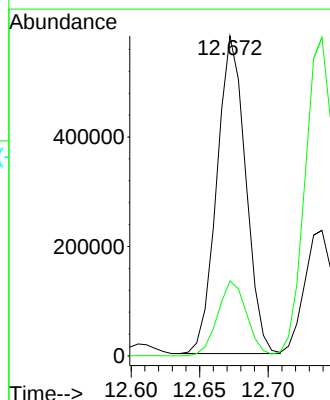
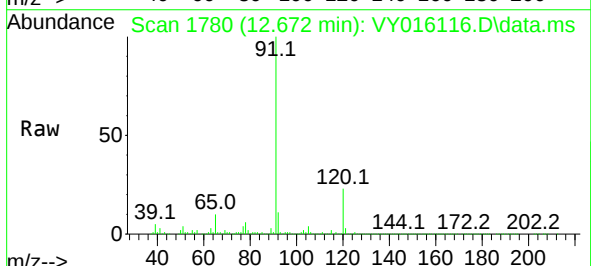
Acq: 27 Oct 2023 20:04

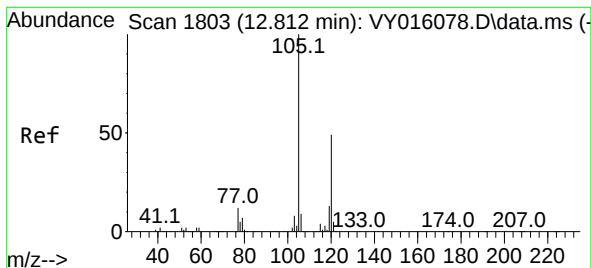
Tgt Ion: 91 Resp: 849596

Ion Ratio Lower Upper

91 100

120 23.6 11.5 34.4





#80

1,3,5-Trimethylbenzene

Concen: 598.343 ug/l

RT: 12.812 min Scan# 1803

Delta R.T. -0.000 min

Lab File: VY016116.D

Acq: 27 Oct 2023 20:04

Instrument :

MSVOA\_Y

ClientSampleId :

1078

Tgt Ion:105 Resp: 2816059

Ion Ratio Lower Upper

105 100

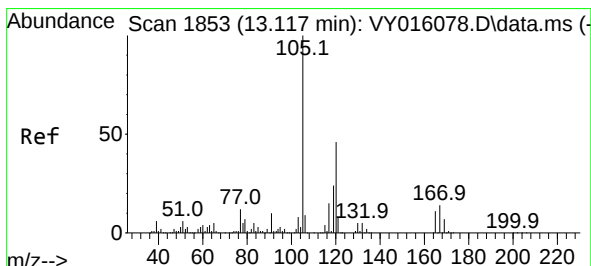
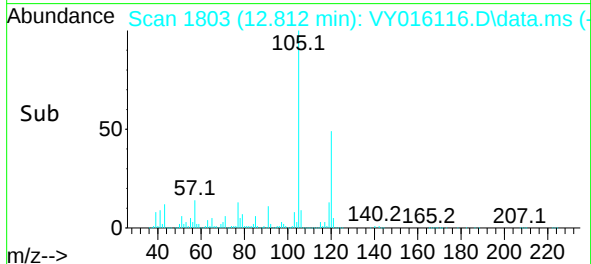
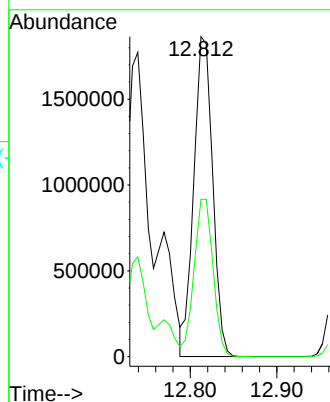
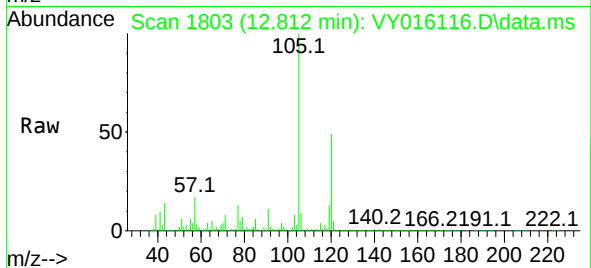
120 49.8 23.9 71.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/01/2023

Supervised By :Semsettin Yesilyurt 11/01/2023



#84

1,2,4-Trimethylbenzene

Concen: 1269.195 ug/l

RT: 13.123 min Scan# 1854

Delta R.T. 0.006 min

Lab File: VY016116.D

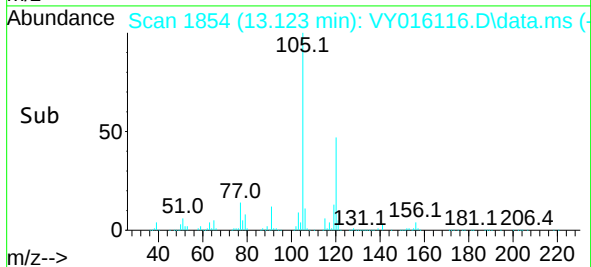
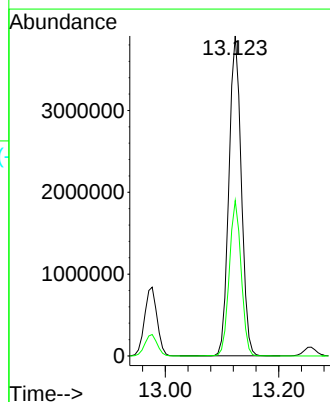
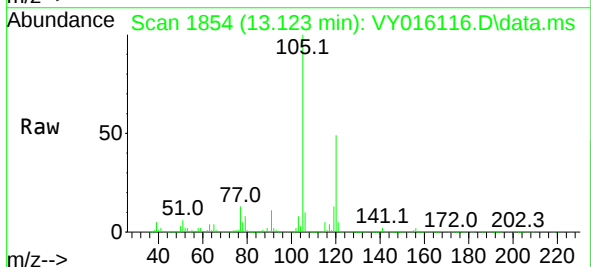
Acq: 27 Oct 2023 20:04

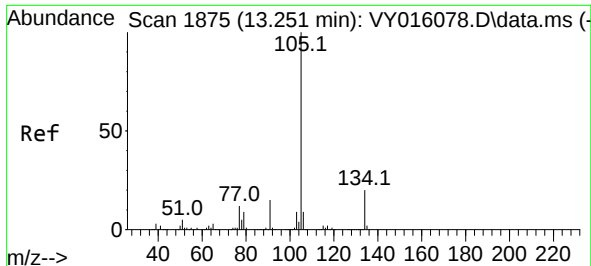
Tgt Ion:105 Resp: 5899481

Ion Ratio Lower Upper

105 100

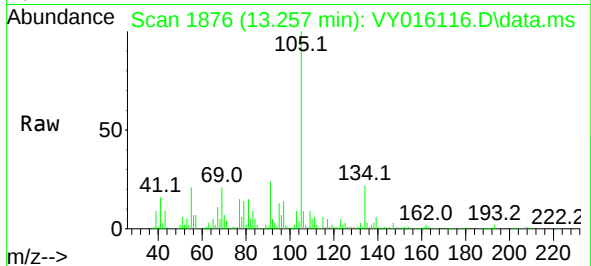
120 46.7 22.2 66.6





#85  
 sec-Butylbenzene  
 Concen: 26.507 ug/l m  
 RT: 13.257 min Scan# 1876  
 Delta R.T. 0.006 min  
 Lab File: VY016116.D  
 Acq: 27 Oct 2023 20:04

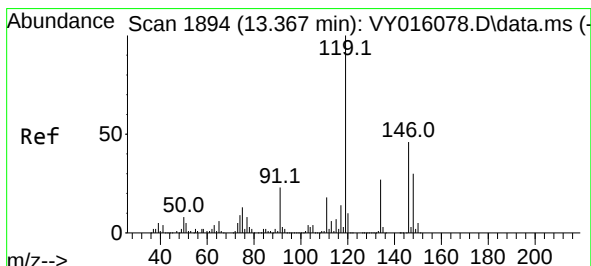
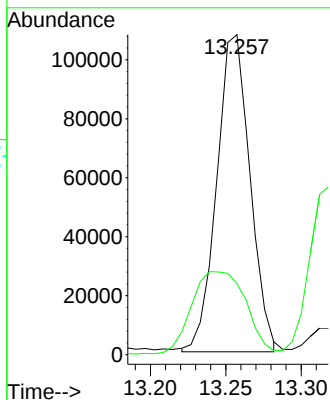
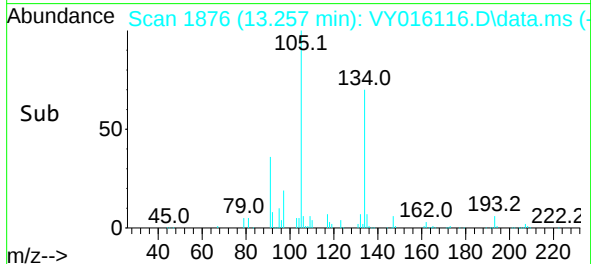
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 1078



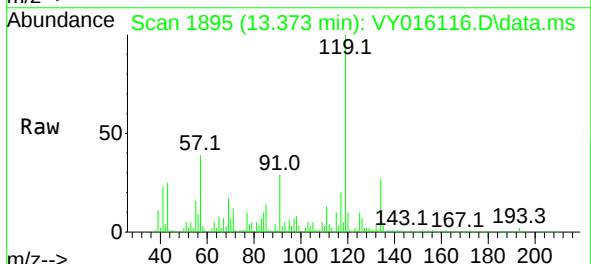
Tgt Ion:105 Resp: 165162  
 Ion Ratio Lower Upper  
 105 100  
 134 0.0 10.2 30.6

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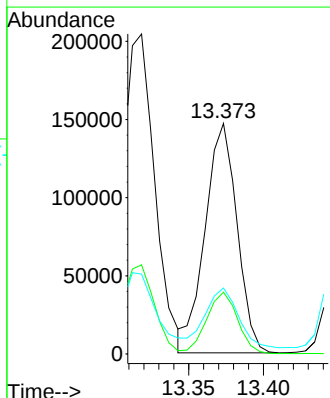
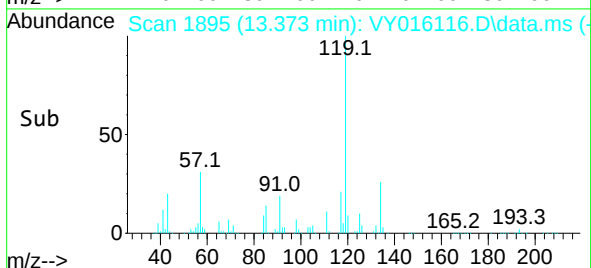
Reviewed By :Mahesh Dadoda 11/01/2023  
 Supervised By :Semsettin Yesilyurt 11/01/2023

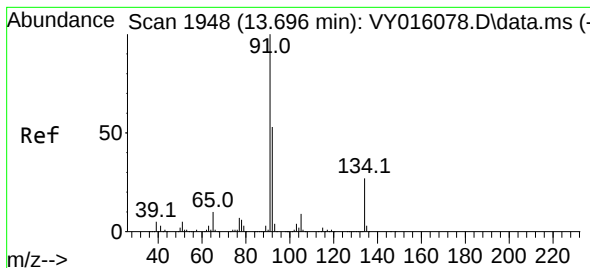


#86  
 p-Isopropyltoluene  
 Concen: 41.988 ug/l  
 RT: 13.373 min Scan# 1895  
 Delta R.T. 0.006 min  
 Lab File: VY016116.D  
 Acq: 27 Oct 2023 20:04



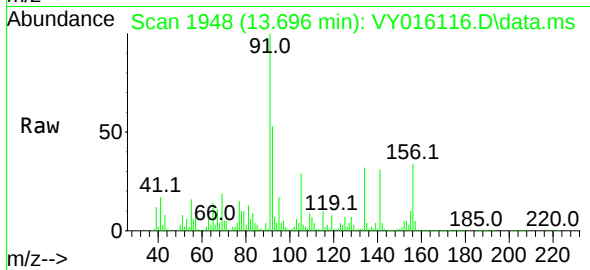
Tgt Ion:119 Resp: 218306  
 Ion Ratio Lower Upper  
 119 100  
 134 26.0 13.3 39.8  
 91 26.2 12.4 37.4





#89  
n-Butylbenzene  
Concen: 24.486 ug/l  
RT: 13.696 min Scan# 1948  
Delta R.T. -0.000 min  
Lab File: VY016116.D  
Acq: 27 Oct 2023 20:04

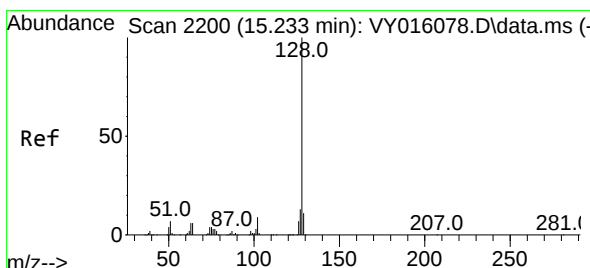
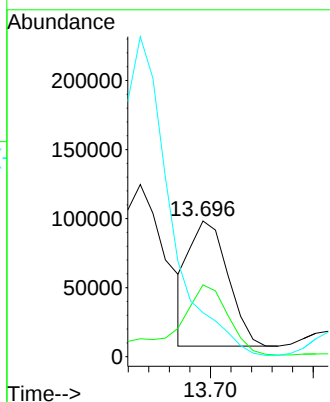
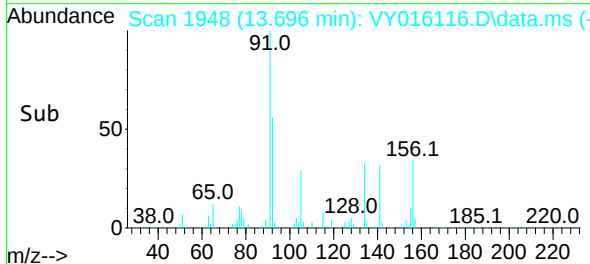
Instrument :  
MSVOA\_Y  
ClientSampleId :  
1078



Tgt Ion: 91 Resp: 118758  
Ion Ratio Lower Upper  
91 100  
92 76.7 25.4 76.0#  
134 0.0 12.6 37.6#

Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 11/01/2023  
Supervised By :Semsettin Yesilyurt 11/01/2023



#95  
Naphthalene  
Concen: 6558.114 ug/l  
RT: 15.233 min Scan# 2200  
Delta R.T. -0.000 min  
Lab File: VY016116.D  
Acq: 27 Oct 2023 20:04

Tgt Ion:128 Resp:18715214  
Ion Ratio Lower Upper  
128 100  
127 18.0 10.8 16.2#  
129 15.9 8.6 13.0#

