

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL042324\  
 Data File : VL041156.D  
 Acq On : 23 Apr 2024 11:59  
 Operator : SY/MD  
 Sample : P2222-02  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA1

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/24/2024  
 Supervised By :Mahesh Dadoda 04/24/2024

Quant Time: Apr 24 02:50:55 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL040424AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 2

QLast Update : Wed Apr 24 02:47:46 2024

Response via : Initial Calibration

| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 5.188  | 49    | 1098628  | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene     | 6.645  | 114   | 2802351  | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5        | 11.455 | 117   | 2399489  | 10.000   | ppbv   | 0.00     |
|                             |        |       |          |          |        |          |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 13.767 | 95    | 1897244  | 9.833    | ppbv   | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 98.300%  |
|                             |        |       |          |          |        |          |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane  | 2.732  | 85    | 56456    | 0.300    | ppbv # | 84       |
| 3) Chlorodifluoromethane    | 2.681  | 51    | 90154    | 0.533    | ppbv   | 96       |
| 4) Chloromethane            | 2.819  | 50    | 35381    | 0.553    | ppbv # | 87       |
| 9) Propene                  | 2.709  | 41    | 59307    | 1.102    | ppbv # | 71       |
| 11) Trichlorofluoromethane  | 3.562  | 101   | 40388    | 0.237    | ppbv   | 96       |
| 13) Ethanol                 | 3.246  | 45    | 219931   | 17.177   | ppbv   | 97       |
| 15) Acetone                 | 3.472  | 43    | 455602   | 3.830    | ppbv   | 96       |
| 20) Methylene Chloride      | 3.931  | 84    | 113520   | 2.314    | ppbv   | 95       |
| 26) Hexane                  | 5.208  | 57    | 177525   | 1.771    | ppbv # | 42       |
| 34) 2-Butanone              | 4.787  | 43    | 31201m   | 0.263    | ppbv   |          |
| 35) Carbon Tetrachloride    | 6.487  | 117   | 12775m   | 0.080    | ppbv   |          |
| 36) Benzene                 | 6.359  | 78    | 24900m   | 0.121    | ppbv   |          |
| 52) Tetrachloroethene       | 10.597 | 164   | 2986m    | 0.045    | ppbv   |          |
| 53) Toluene                 | 9.211  | 91    | 37522m   | 0.173    | ppbv   |          |
| 59) m/p-Xylene              | 12.336 | 91    | 23469m   | 0.099    | ppbv   |          |
| 61) Styrene                 | 12.886 | 104   | 30574    | 0.307    | ppbv   | 88       |
| -----                       |        |       |          |          |        |          |

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

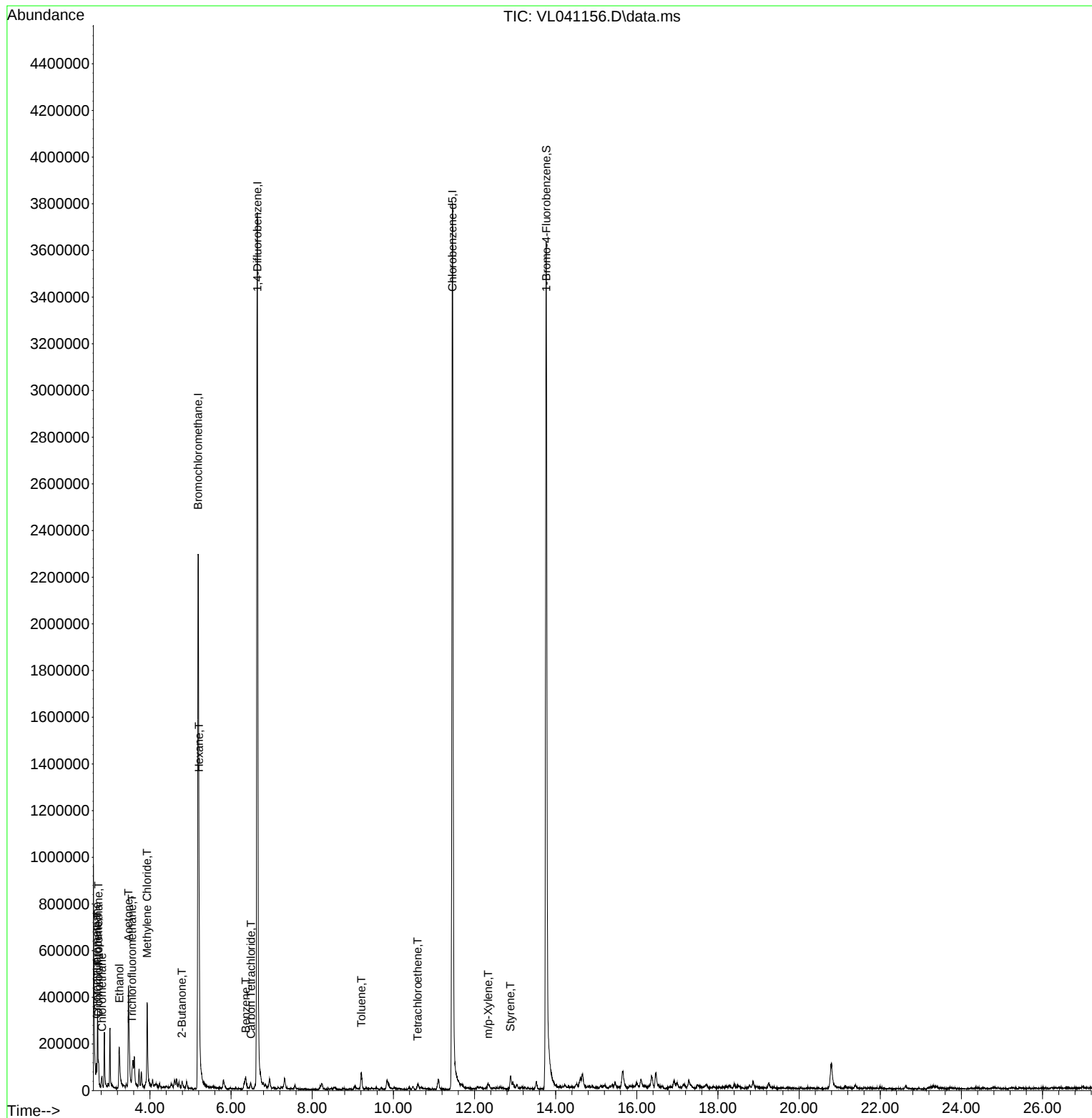
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL042324\  
Data File : VL041156.D  
Acq On : 23 Apr 2024 11:59  
Operator : SY/MD  
Sample : P2222-02  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

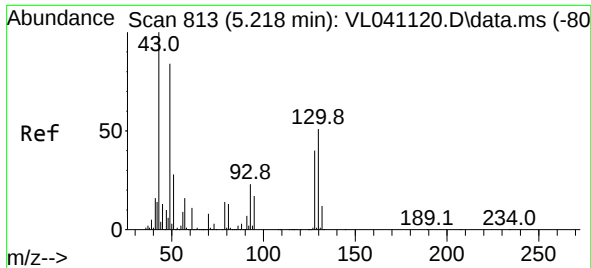
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1

Quant Time: Apr 24 02:50:55 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL040424AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Wed Apr 24 02:47:46 2024  
Response via : Initial Calibration

Manual Integrations  
APPROVED

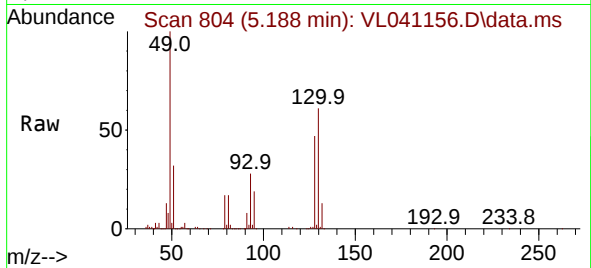
Reviewed By : Semsettin Yesilyurt 04/24/2024  
Supervised By : Mahesh Dadoda 04/24/2024





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.188 min Scan# 80  
Delta R.T. -0.001 min  
Lab File: VL041156.D  
Acq: 23 Apr 2024 11:59

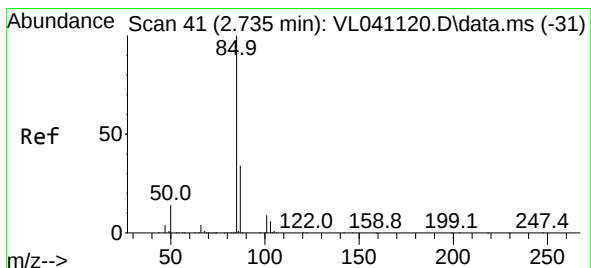
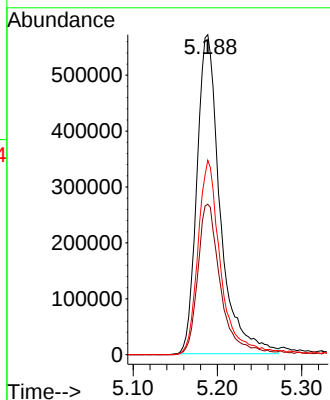
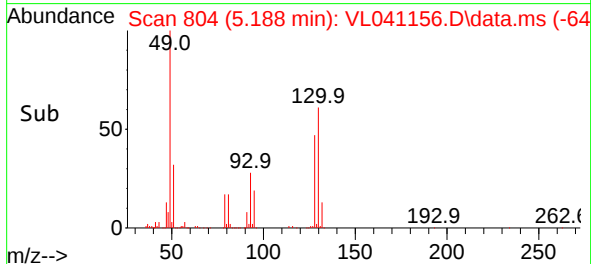
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1



Tgt Ion: 49 Resp: 1098628  
Ion Ratio Lower Upper  
49 100  
128 47.4 23.6 71.0  
130 61.1 30.1 90.5

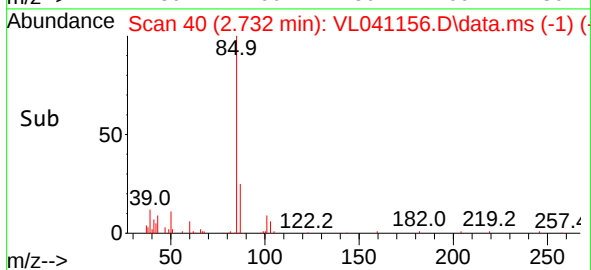
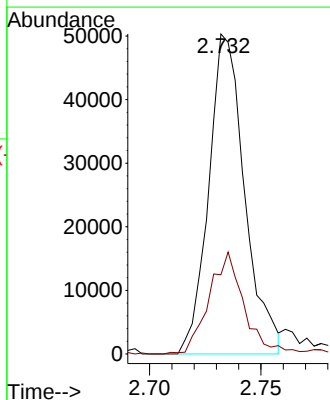
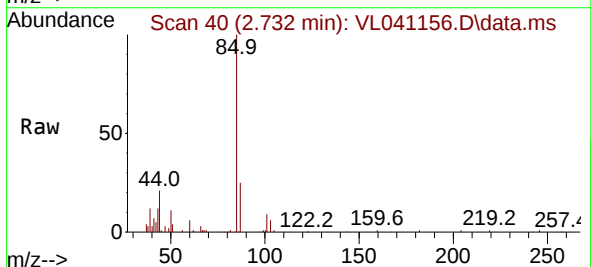
Manual Integrations  
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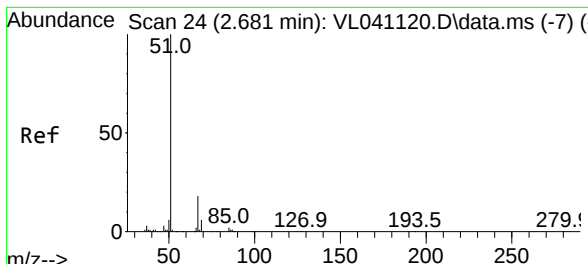
Reviewed By :Semsettin Yesilyurt 04/24/2024  
Supervised By :Mahesh Dadoda 04/24/2024



#2  
Dichlorodifluoromethane  
Concen: 0.300 ppbv  
RT: 2.732 min Scan# 40  
Delta R.T. -0.003 min  
Lab File: VL041156.D  
Acq: 23 Apr 2024 11:59

Tgt Ion: 85 Resp: 56456  
Ion Ratio Lower Upper  
85 100  
87 24.4 27.0 40.6





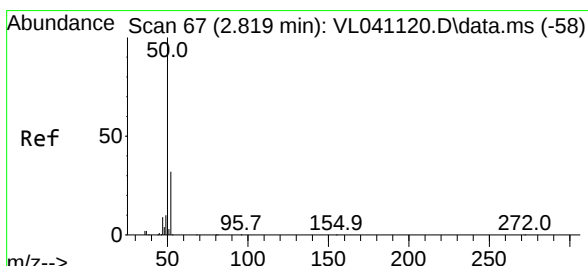
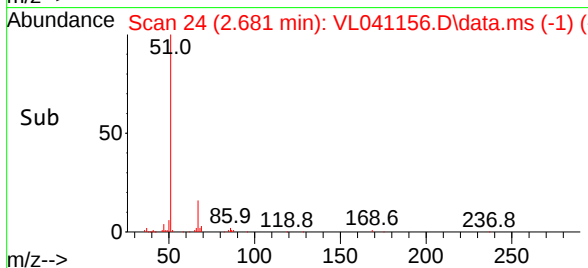
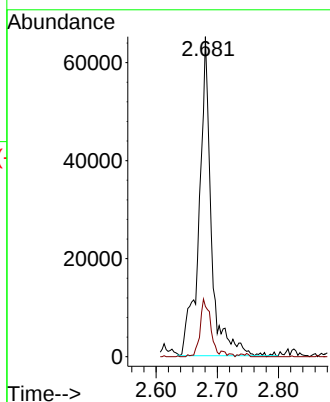
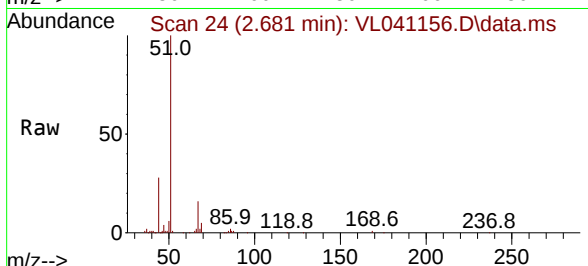
#3  
Chlorodifluoromethane  
Concen: 0.533 ppbv  
RT: 2.681 min Scan# 24  
Delta R.T. -0.000 min  
Lab File: VL041156.D  
Acq: 23 Apr 2024 11:59

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1

Tgt Ion: 51 Resp: 90154  
Ion Ratio Lower Upper  
51 100  
67 17.0 14.9 22.3

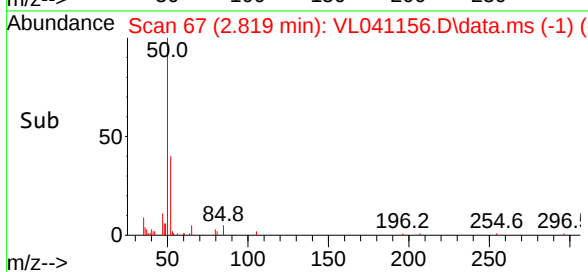
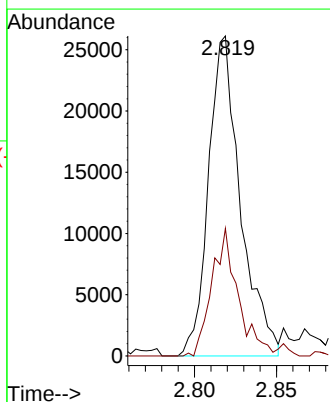
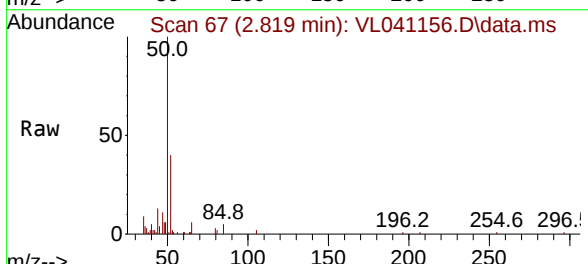
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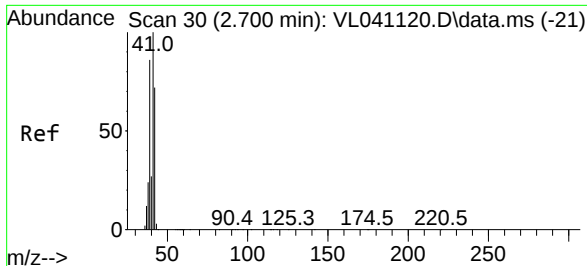
Reviewed By :Semsettin Yesilyurt 04/24/2024  
Supervised By :Mahesh Dadoda 04/24/2024



#4  
Chloromethane  
Concen: 0.553 ppbv  
RT: 2.819 min Scan# 67  
Delta R.T. -0.000 min  
Lab File: VL041156.D  
Acq: 23 Apr 2024 11:59

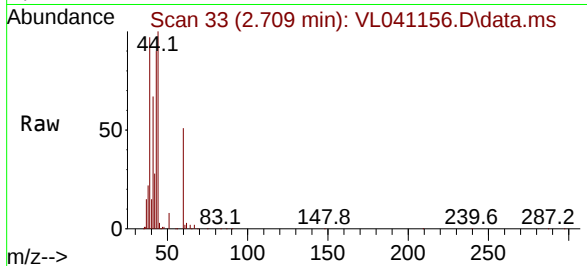
Tgt Ion: 50 Resp: 35381  
Ion Ratio Lower Upper  
50 100  
52 39.8 26.0 39.0#





#9  
 Propene  
 Concen: 1.102 ppbv  
 RT: 2.709 min Scan# 31  
 Delta R.T. 0.009 min  
 Lab File: VL041156.D  
 Acq: 23 Apr 2024 11:59

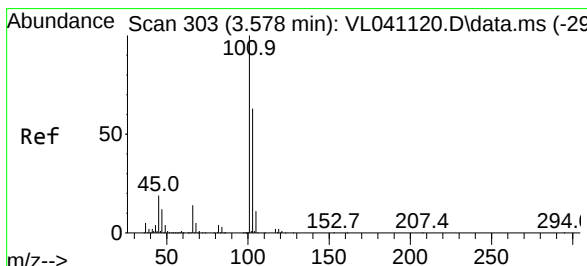
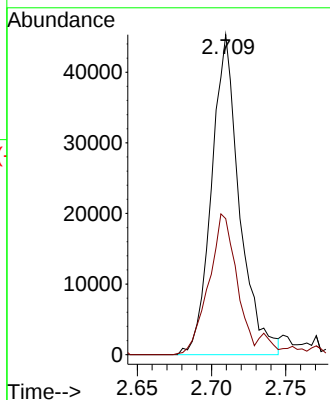
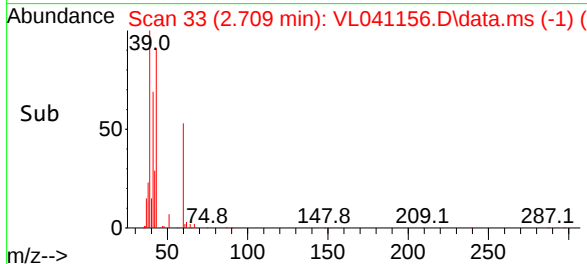
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA1



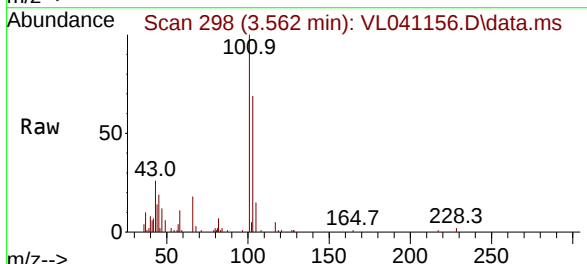
Tgt Ion: 41 Resp: 5930  
 Ion Ratio Lower Upper  
 41 100  
 42 50.0 60.1 90.1

Manual Integrations  
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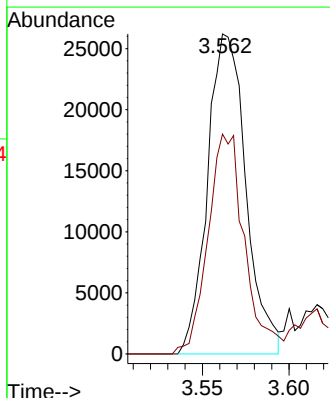
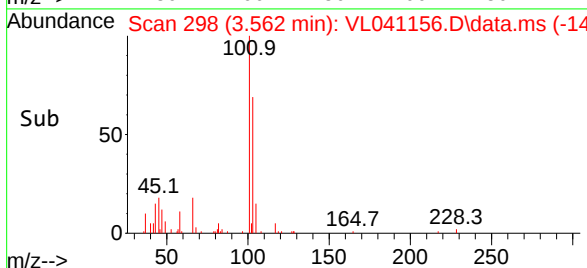
Reviewed By :Semsettin Yesilyurt 04/24/2024  
 Supervised By :Mahesh Dadoda 04/24/2024

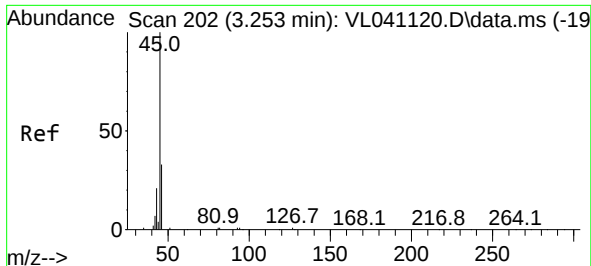


#11  
 Trichlorofluoromethane  
 Concen: 0.237 ppbv  
 RT: 3.562 min Scan# 298  
 Delta R.T. -0.000 min  
 Lab File: VL041156.D  
 Acq: 23 Apr 2024 11:59



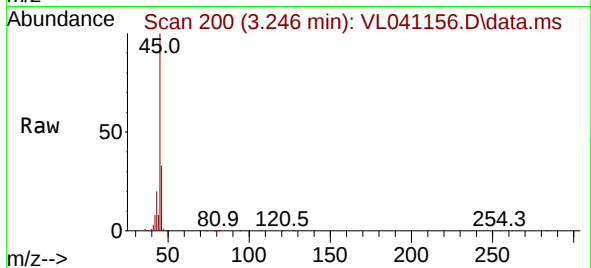
Tgt Ion:101 Resp: 40388  
 Ion Ratio Lower Upper  
 101 100  
 103 66.6 50.6 75.8





#13  
Ethanol  
Concen: 17.177 ppbv  
RT: 3.246 min Scan# 20  
Delta R.T. 0.003 min  
Lab File: VL041156.D  
Acq: 23 Apr 2024 11:59

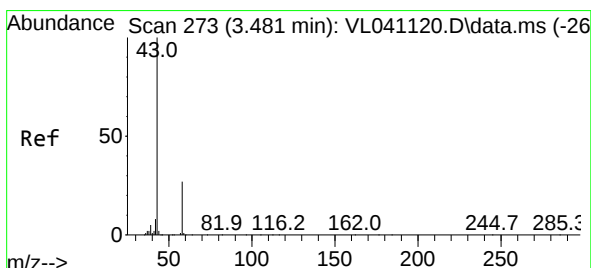
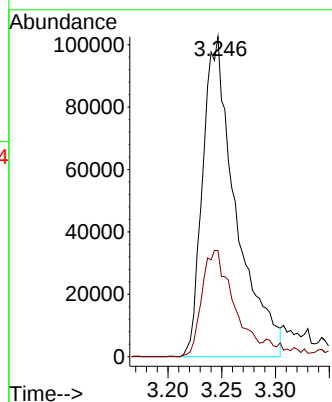
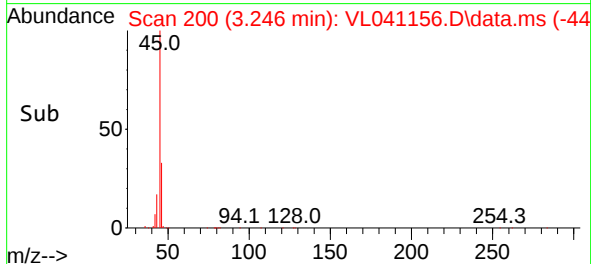
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1



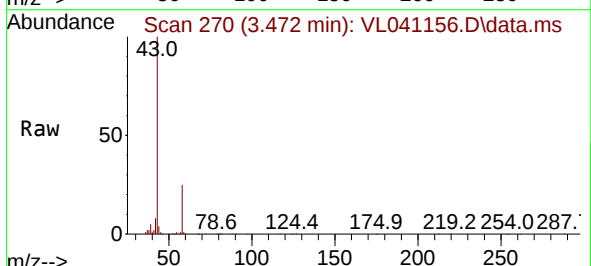
Tgt Ion: 45 Resp: 21993  
Ion Ratio Lower Upper  
45 100  
46 35.3 15.0 59.8

Manual Integrations  
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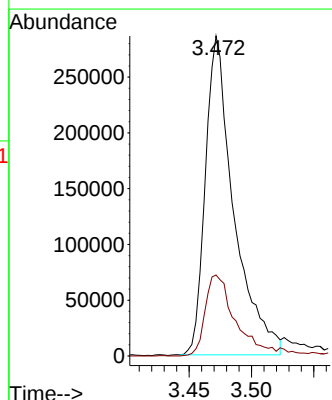
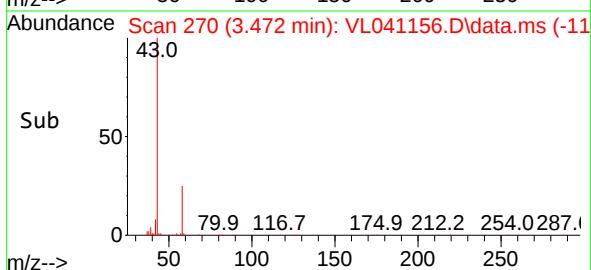
Reviewed By :Semsettin Yesilyurt 04/24/2024  
Supervised By :Mahesh Dadoda 04/24/2024

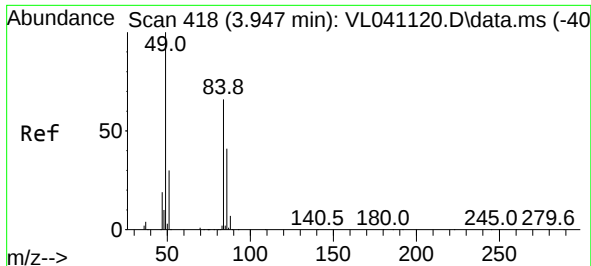


#15  
Acetone  
Concen: 3.830 ppbv  
RT: 3.472 min Scan# 270  
Delta R.T. 0.003 min  
Lab File: VL041156.D  
Acq: 23 Apr 2024 11:59



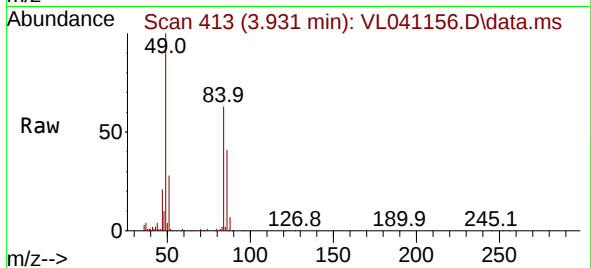
Tgt Ion: 43 Resp: 455602  
Ion Ratio Lower Upper  
43 100  
58 28.6 21.1 31.7





#20  
Methylene Chloride  
Concen: 2.314 ppbv  
RT: 3.931 min Scan# 418  
Delta R.T. -0.000 min  
Lab File: VL041156.D  
Acq: 23 Apr 2024 11:59

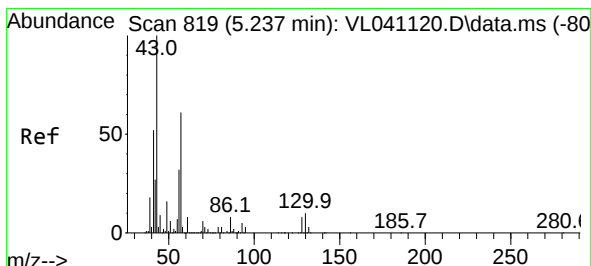
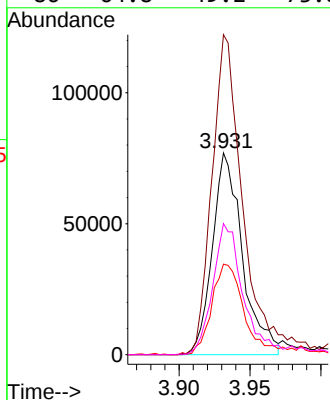
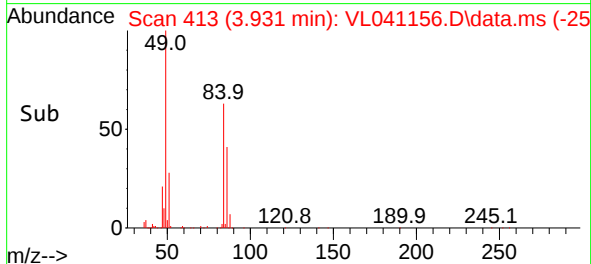
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1



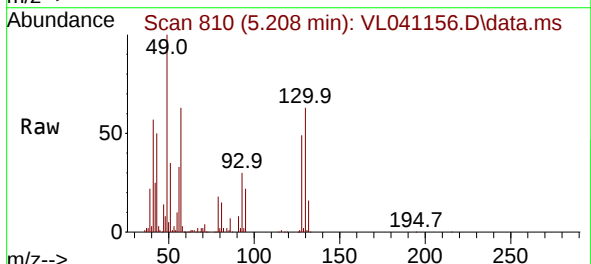
Tgt Ion: 84 Resp: 113520  
Ion Ratio Lower Upper  
84 100  
49 158.6 120.7 181.1  
51 44.9 36.6 54.8  
86 64.8 49.2 73.8

Manual Integrations  
APPROVED

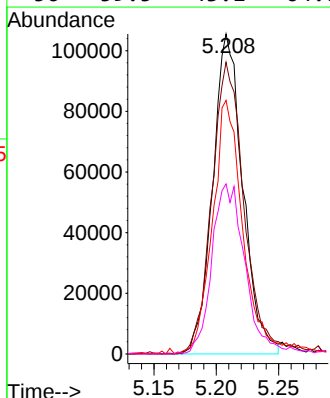
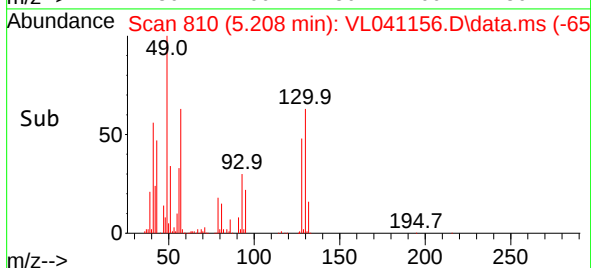
Reviewed By :Semsettin Yesilyurt 04/24/2024  
Supervised By :Mahesh Dadoda 04/24/2024

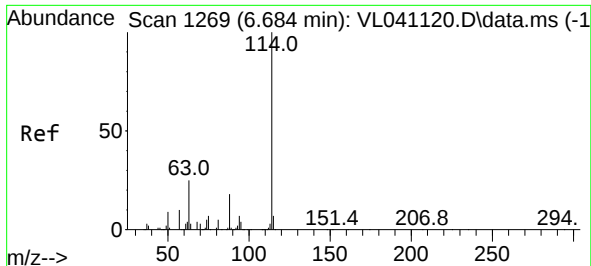


#26  
Hexane  
Concen: 1.771 ppbv  
RT: 5.208 min Scan# 810  
Delta R.T. -0.000 min  
Lab File: VL041156.D  
Acq: 23 Apr 2024 11:59



Tgt Ion: 57 Resp: 177525  
Ion Ratio Lower Upper  
57 100  
41 99.7 73.8 110.8  
43 82.7 186.2 279.2#  
56 59.5 43.1 64.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.645 min Scan# 11

Delta R.T. -0.000 min

Lab File: VL041156.D

Acq: 23 Apr 2024 11:59

Instrument :

MSVOA\_L

ClientSampleId :

IA1

Tgt Ion:114 Resp: 280235

Ion Ratio Lower Upper

114 100

63 25.9 20.9 31.3

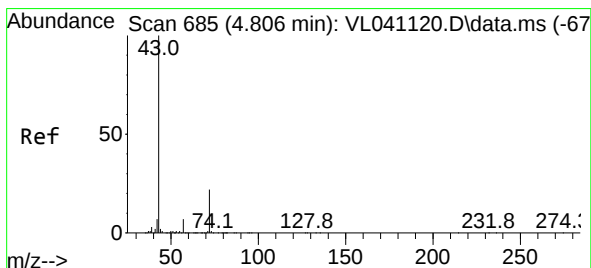
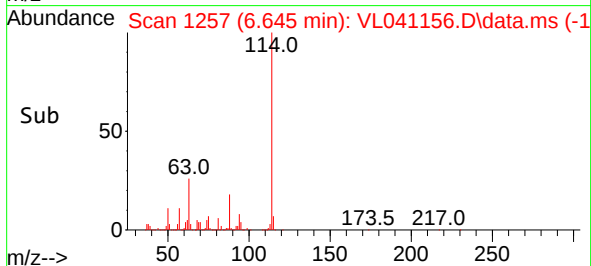
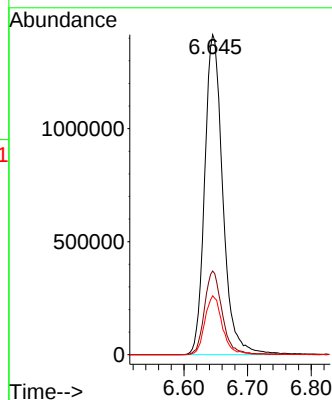
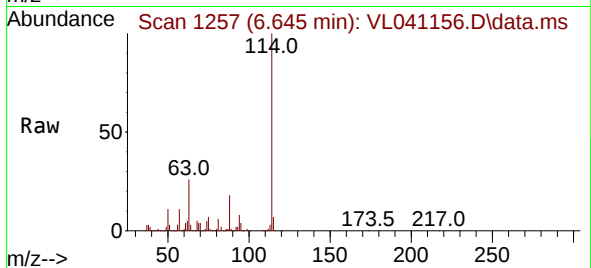
88 18.0 14.5 21.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/24/2024

Supervised By :Mahesh Dadoda 04/24/2024



#34

2-Butanone

Concen: 0.263 ppbv m

RT: 4.787 min Scan# 679

Delta R.T. 0.006 min

Lab File: VL041156.D

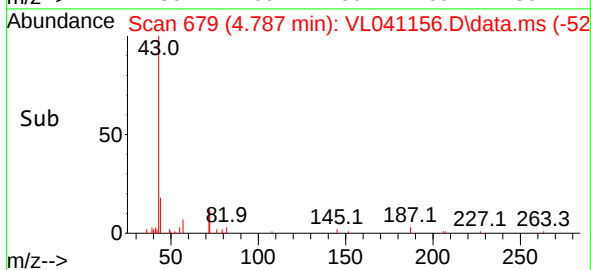
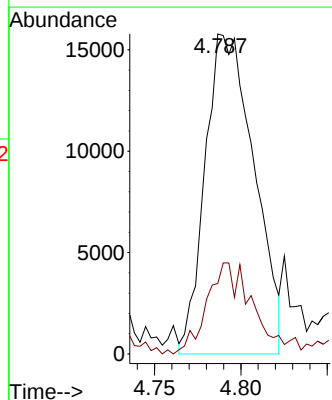
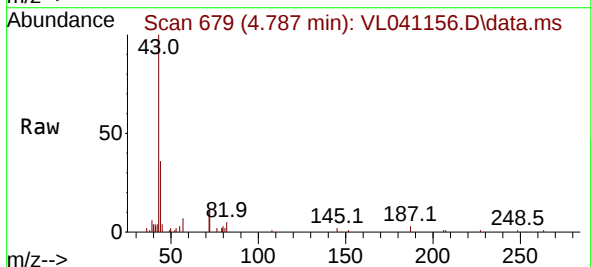
Acq: 23 Apr 2024 11:59

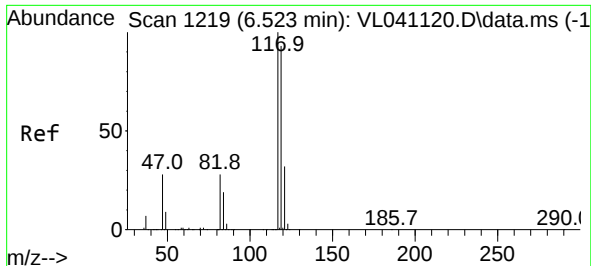
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Ion Ratio Lower Upper

43 100

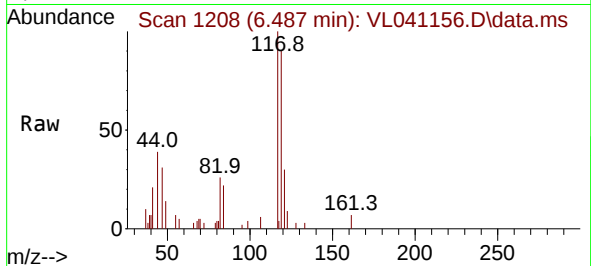
72 29.3 17.6 26.4#





#35  
Carbon Tetrachloride  
Concen: 0.080 ppbv m  
RT: 6.487 min Scan# 1177  
Delta R.T. -0.000 min  
Lab File: VL041156.D  
Acq: 23 Apr 2024 11:59

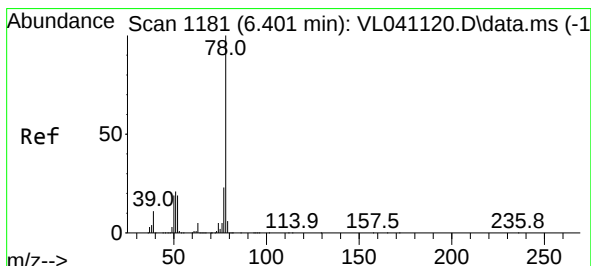
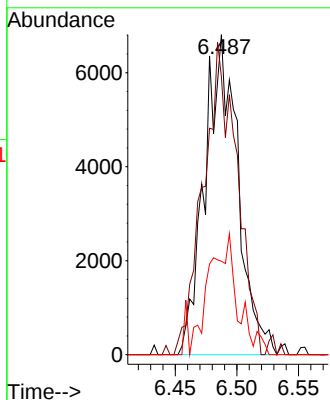
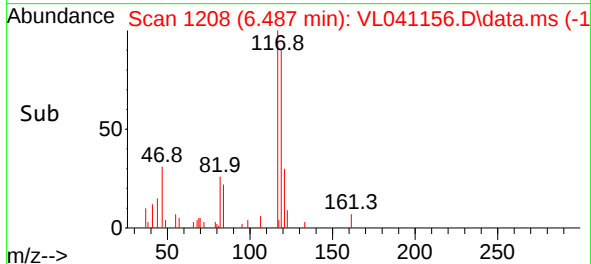
Instrument : MSVOA\_L  
ClientSampleId : IA1



Tgt Ion: 117 Resp: 1277  
Ion Ratio Lower Upper  
117 100  
119 90.1 74.2 111.4  
121 30.3 25.4 38.2

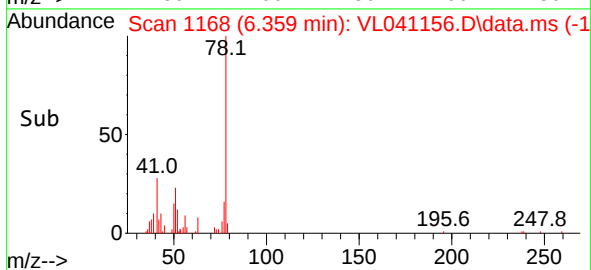
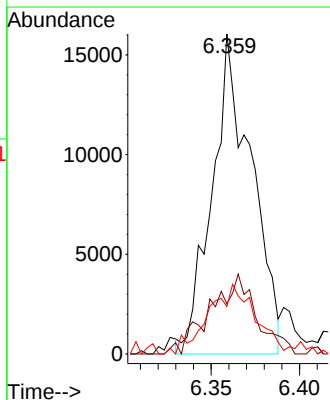
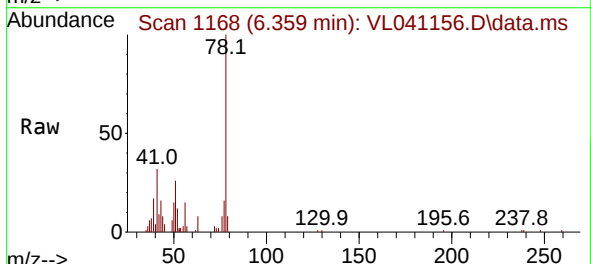
Manual Integrations  
APPROVED

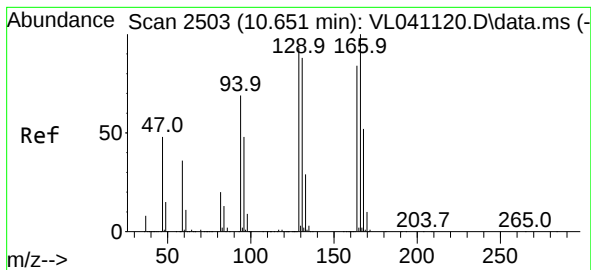
Reviewed By :Semsettin Yesilyurt 04/24/2024  
Supervised By :Mahesh Dadoda 04/24/2024



#36  
Benzene  
Concen: 0.121 ppbv m  
RT: 6.359 min Scan# 1168  
Delta R.T. -0.003 min  
Lab File: VL041156.D  
Acq: 23 Apr 2024 11:59

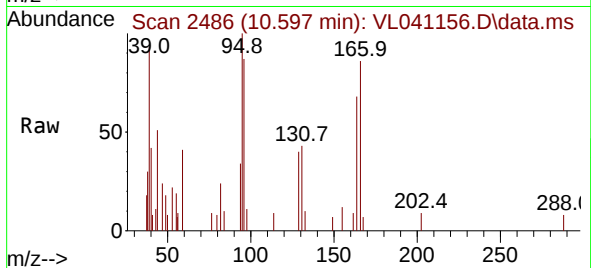
Tgt Ion: 78 Resp: 24900  
Ion Ratio Lower Upper  
78 100  
77 15.6 18.2 27.4#  
50 14.8 15.4 23.2#





#52  
Tetrachloroethene  
Concen: 0.045 ppbv m  
RT: 10.597 min Scan# 2486  
Delta R.T. -0.010 min  
Lab File: VL041156.D  
Acq: 23 Apr 2024 11:59

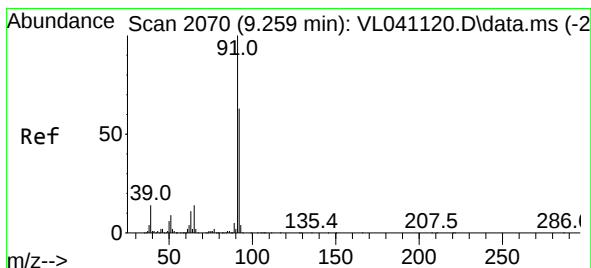
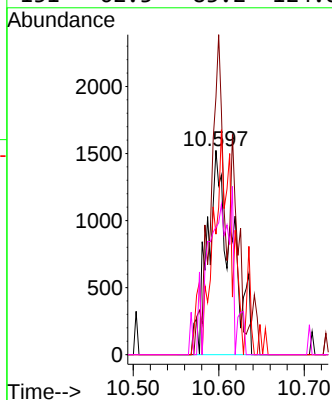
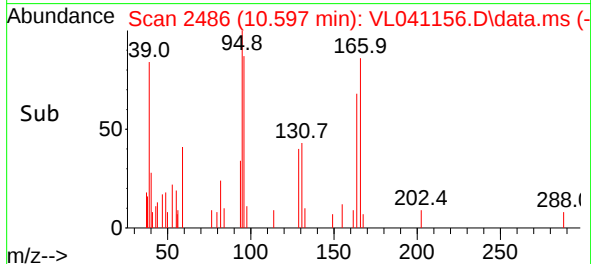
Instrument : MSVOA\_L  
ClientSampleId : IA1



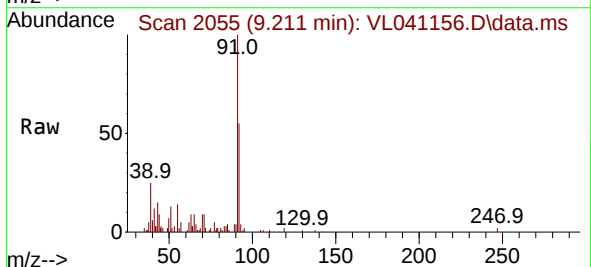
Tgt Ion:164 Resp: 2980  
Ion Ratio Lower Upper  
164 100  
166 126.0 95.0 142.6  
129 59.0 88.7 133.1  
131 62.3 83.2 124.8

Manual Integrations  
APPROVED

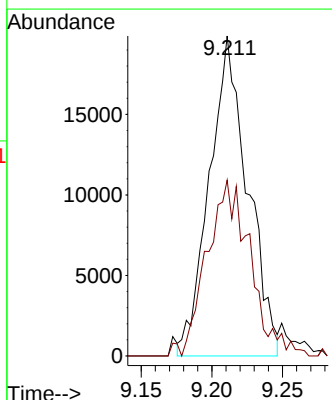
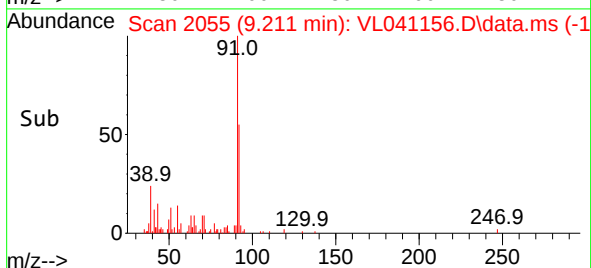
Reviewed By :Semsettin Yesilyurt 04/24/2024  
Supervised By :Mahesh Dadoda 04/24/2024

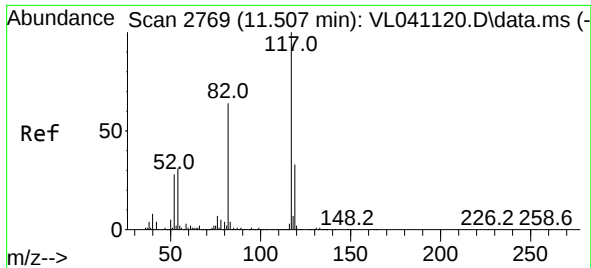


#53  
Toluene  
Concen: 0.173 ppbv m  
RT: 9.211 min Scan# 2055  
Delta R.T. -0.000 min  
Lab File: VL041156.D  
Acq: 23 Apr 2024 11:59



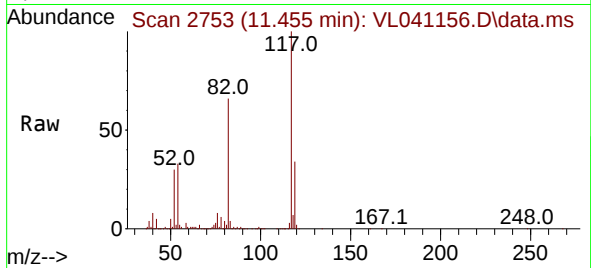
Tgt Ion: 91 Resp: 37522  
Ion Ratio Lower Upper  
91 100  
92 62.2 49.0 73.4





#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.455 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VL041156.D  
Acq: 23 Apr 2024 11:59

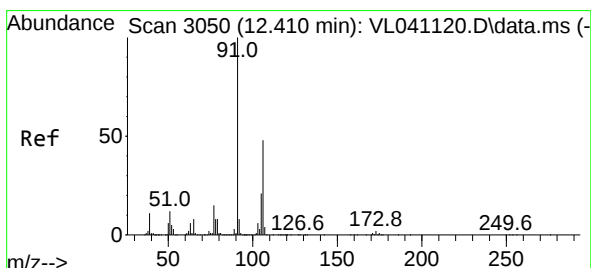
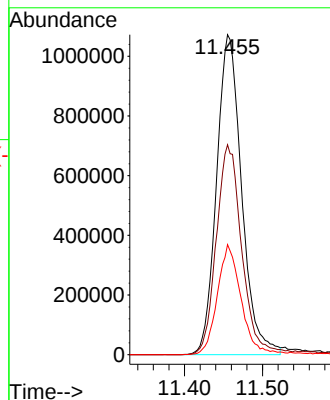
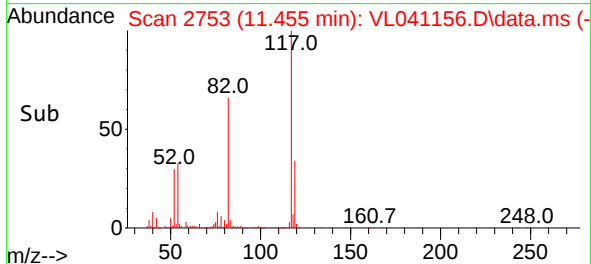
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1



Tgt Ion:117 Resp: 2399489  
Ion Ratio Lower Upper  
117 100  
82 67.9 51.0 76.6  
119 33.2 25.2 37.8

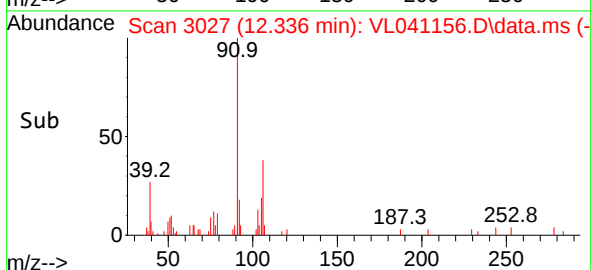
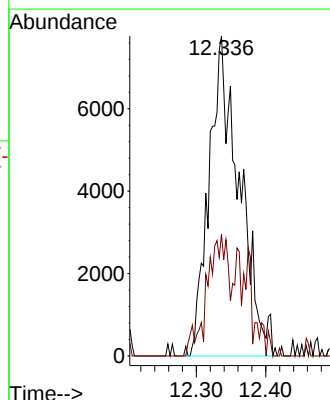
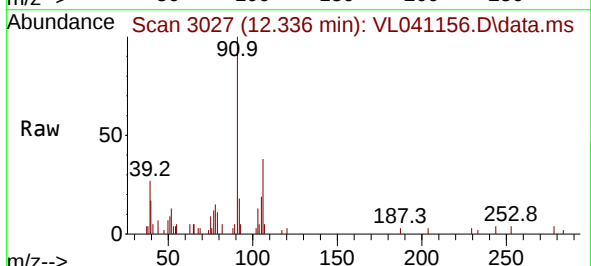
Manual Integrations  
APPROVED

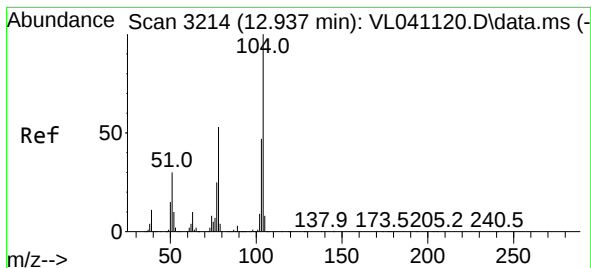
Reviewed By :Semsettin Yesilyurt 04/24/2024  
Supervised By :Mahesh Dadoda 04/24/2024



#59  
m/p-Xylene  
Concen: 0.099 ppbv m  
RT: 12.336 min Scan# 3027  
Delta R.T. -0.026 min  
Lab File: VL041156.D  
Acq: 23 Apr 2024 11:59

Tgt Ion: 91 Resp: 23469  
Ion Ratio Lower Upper  
91 100  
106 0.0 35.4 53.2#





#61

Styrene

Concen: 0.307 ppbv

RT: 12.886 min Scan# 3198

Delta R.T. -0.000 min

Lab File: VL041156.D

Acq: 23 Apr 2024 11:59

Instrument :

MSVOA\_L

ClientSampleId :

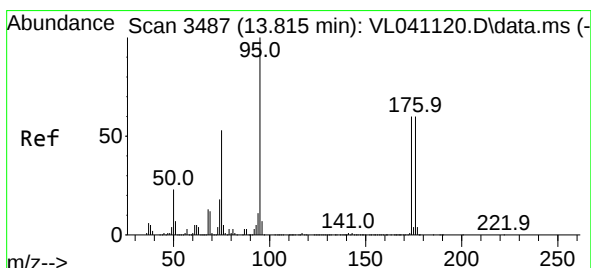
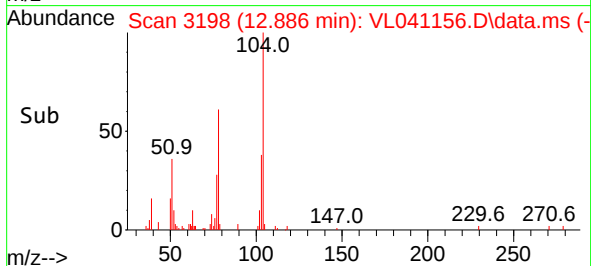
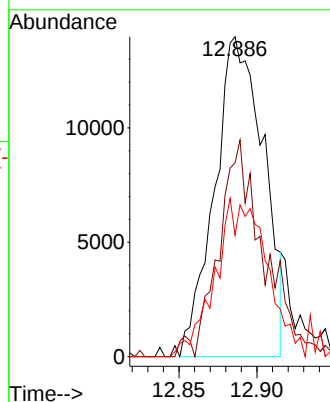
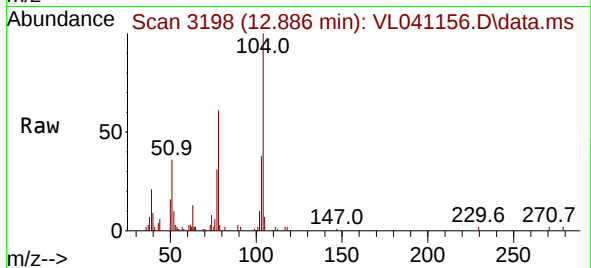
IA1

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:104 | Resp: | 30574     |
| Ion Ratio   | Lower | Upper     |
| 104         | 100   |           |
| 78          | 63.9  | 43.3 64.9 |
| 103         | 54.6  | 38.2 57.2 |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/24/2024  
Supervised By :Mahesh Dadoda 04/24/2024



#68

1-Bromo-4-Fluorobenzene

Concen: 9.833 ppbv

RT: 13.767 min Scan# 3472

Delta R.T. 0.003 min

Lab File: VL041156.D

Acq: 23 Apr 2024 11:59

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 95 | Resp: | 1897244   |
| Ion Ratio   | Lower | Upper     |
| 95          | 100   |           |
| 174         | 60.9  | 49.3 73.9 |
| 175         | 4.6   | 3.6 5.4   |

