

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL012324\  
 Data File : VL041002.D  
 Acq On : 23 Jan 2024 18:48  
 Operator : SY/MD  
 Sample : P1211-03  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 OA1

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/24/2024  
 Supervised By :Mahesh Dadoda 01/24/2024

Quant Time: Jan 24 01:01:01 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL012324AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Wed Jan 24 00:50:15 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 5.156  | 49    | 1005393  | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 6.613  | 114   | 2626233  | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 11.420 | 117   | 2193879  | 10.000   | ppbv   | 0.00     |
|                               |        |       |          |          |        |          |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 13.732 | 95    | 1637695  | 9.883    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 98.800%  |
|                               |        |       |          |          |        |          |
| Target Compounds              |        |       |          |          |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 2.703  | 85    | 105076   | 0.473    | ppbv   | 95       |
| 3) Chlorodifluoromethane      | 2.648  | 51    | 41822    | 0.247    | ppbv   | 97       |
| 4) Chloromethane              | 2.787  | 50    | 30615    | 0.483    | ppbv   | 94       |
| 9) Propene                    | 2.674  | 41    | 62397m   | 1.125    | ppbv   |          |
| 11) Trichlorofluoromethane    | 3.533  | 101   | 38333    | 0.214    | ppbv   | 88       |
| 12) 1,1,2-Trichlorotrifluo... | 4.038  | 101   | 7372     | 0.057    | ppbv # | 77       |
| 13) Ethanol                   | 3.214  | 45    | 92636    | 7.008    | ppbv   | 98       |
| 15) Acetone                   | 3.443  | 43    | 345569   | 2.688    | ppbv   | 95       |
| 20) Methylene Chloride        | 3.902  | 84    | 360295   | 7.283    | ppbv   | 94       |
| 26) Hexane                    | 5.176  | 57    | 263903   | 2.656    | ppbv # | 40       |
| 35) Carbon Tetrachloride      | 6.452  | 117   | 11672m   | 0.067    | ppbv   |          |
| 36) Benzene                   | 6.333  | 78    | 60881m   | 0.281    | ppbv   |          |
| 44) 2,2,4-Trimethylpentane    | 7.291  | 57    | 36146m   | 0.099    | ppbv   |          |
| 53) Toluene                   | 9.179  | 91    | 72668    | 0.306    | ppbv   | 99       |
| -----                         |        |       |          |          |        |          |

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

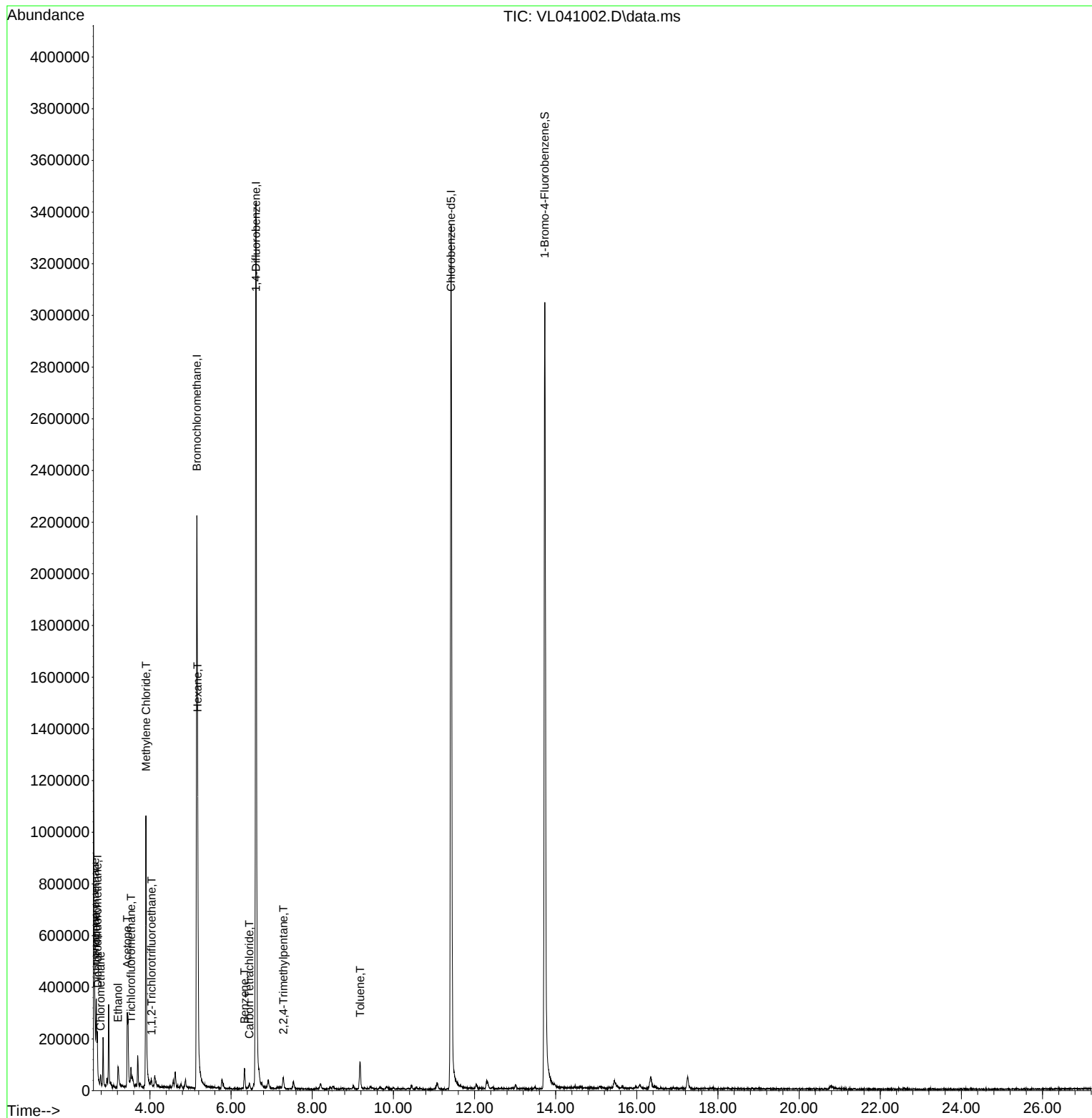
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL012324\  
Data File : VL041002.D  
Acq On : 23 Jan 2024 18:48  
Operator : SY/MD  
Sample : P1211-03  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

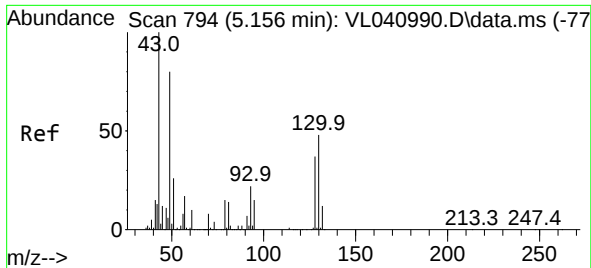
Instrument :  
MSVOA\_L  
ClientSampleId :  
OA1

Quant Time: Jan 24 01:01:01 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL012324AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Wed Jan 24 00:50:15 2024  
Response via : Initial Calibration

Manual Integrations  
APPROVED

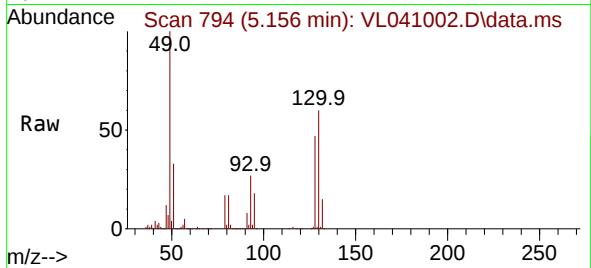
Reviewed By : Semsettin Yesilyurt 01/24/2024  
Supervised By : Mahesh Dadoda 01/24/2024





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.156 min Scan# 794  
Delta R.T. 0.000 min  
Lab File: VL041002.D  
Acq: 23 Jan 2024 18:48

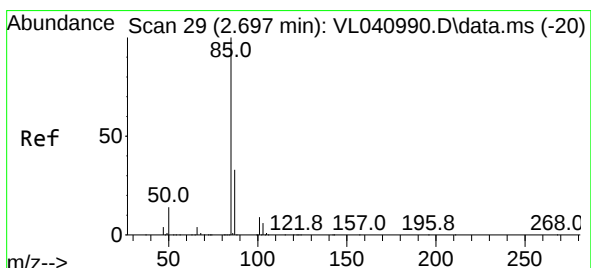
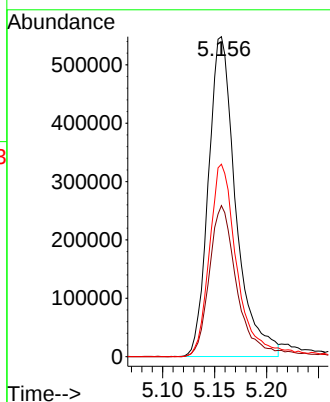
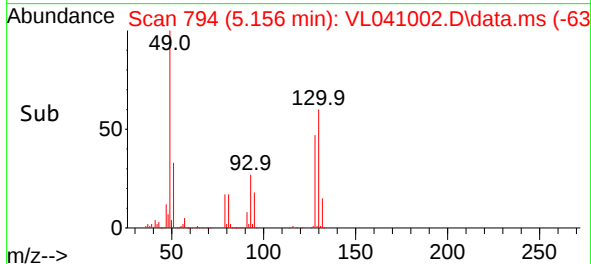
Instrument :  
MSVOA\_L  
ClientSampleId :  
OA1



Tgt Ion: 49 Resp: 100539  
Ion Ratio Lower Upper  
49 100  
128 48.6 23.9 71.7  
130 63.1 31.1 93.5

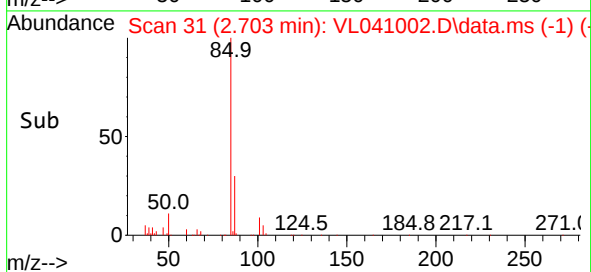
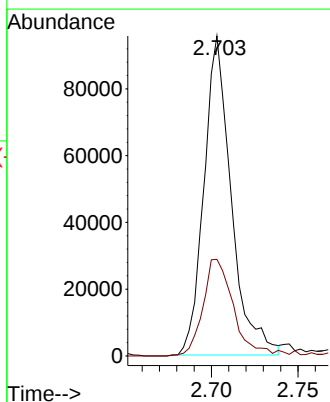
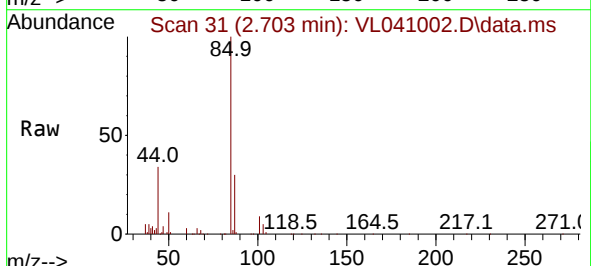
Manual Integrations  
APPROVED

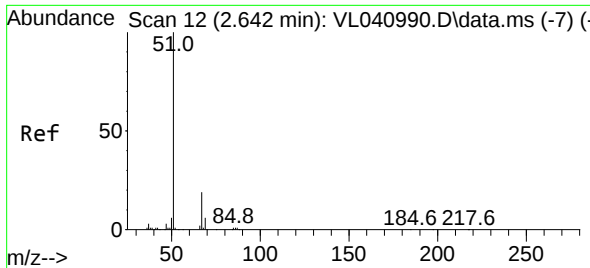
Reviewed By :Semsettin Yesilyurt 01/24/2024  
Supervised By :Mahesh Dadoda 01/24/2024



#2  
Dichlorodifluoromethane  
Concen: 0.473 ppbv  
RT: 2.703 min Scan# 31  
Delta R.T. 0.006 min  
Lab File: VL041002.D  
Acq: 23 Jan 2024 18:48

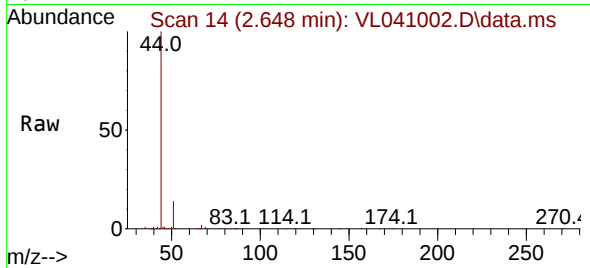
Tgt Ion: 85 Resp: 105076  
Ion Ratio Lower Upper  
85 100  
87 29.9 26.3 39.5





#3  
Chlorodifluoromethane  
Concen: 0.247 ppbv  
RT: 2.648 min Scan# 14  
Delta R.T. 0.006 min  
Lab File: VL041002.D  
Acq: 23 Jan 2024 18:48

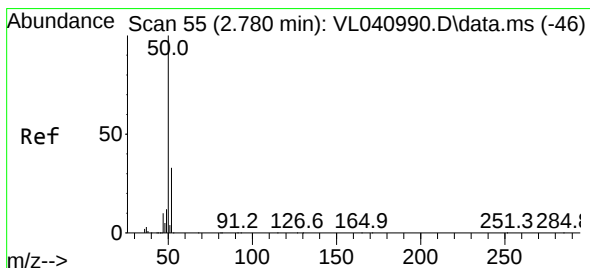
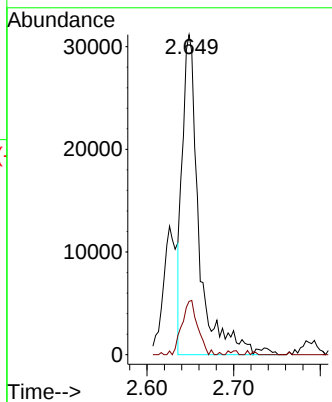
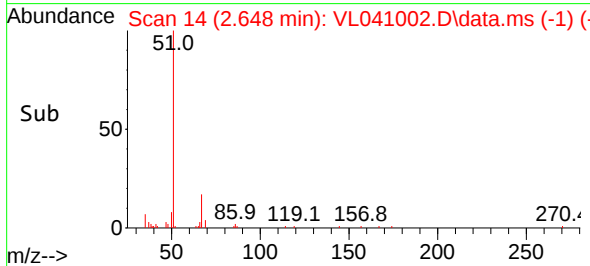
Instrument :  
MSVOA\_L  
ClientSampleId :  
OA1



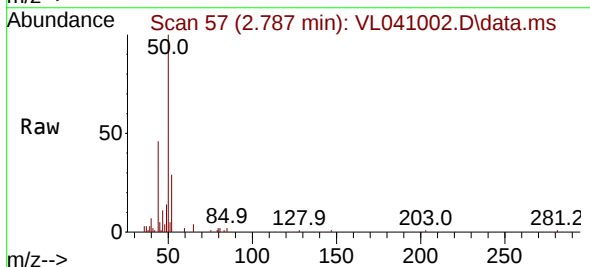
Tgt Ion: 51 Resp: 4182  
Ion Ratio Lower Upper  
51 100  
67 17.0 14.8 22.2

Manual Integrations  
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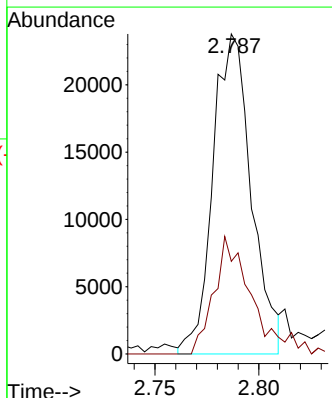
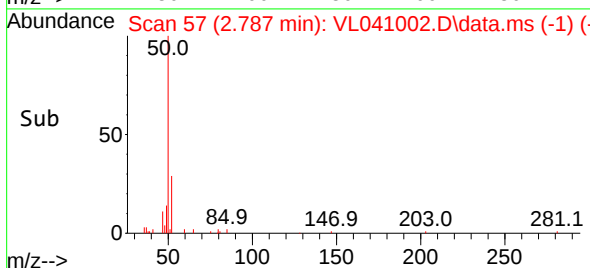
Reviewed By :Semsettin Yesilyurt 01/24/2024  
Supervised By :Mahesh Dadoda 01/24/2024

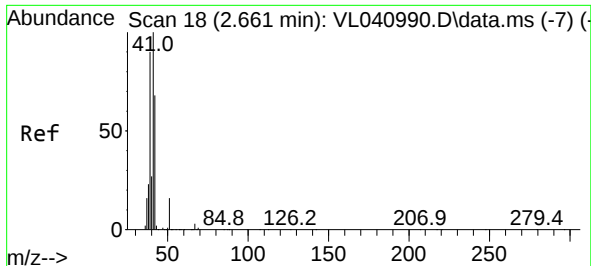


#4  
Chloromethane  
Concen: 0.483 ppbv  
RT: 2.787 min Scan# 57  
Delta R.T. 0.006 min  
Lab File: VL041002.D  
Acq: 23 Jan 2024 18:48



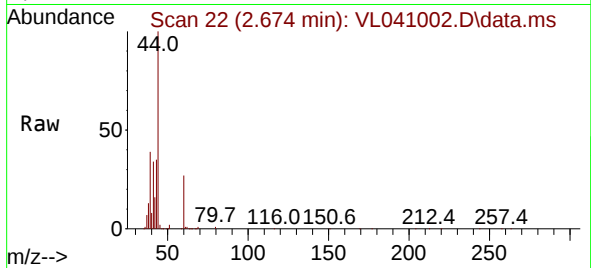
Tgt Ion: 50 Resp: 30615  
Ion Ratio Lower Upper  
50 100  
52 29.5 26.2 39.4





#9  
 Propene  
 Concen: 1.125 ppbv m  
 RT: 2.674 min Scan# 21  
 Delta R.T. 0.013 min  
 Lab File: VL041002.D  
 Acq: 23 Jan 2024 18:48

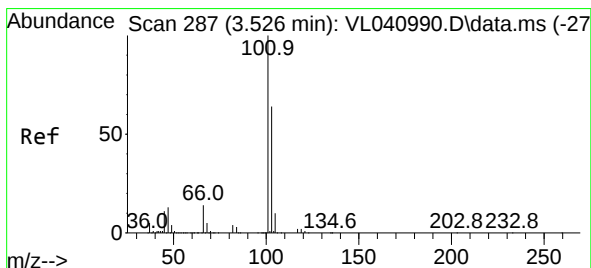
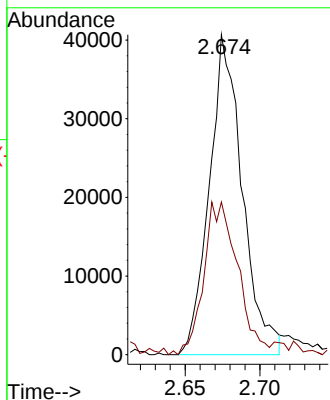
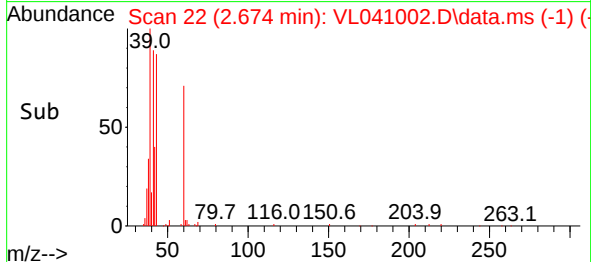
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 OA1



Tgt Ion: 41 Resp: 6239  
 Ion Ratio Lower Upper  
 41 100  
 42 52.1 59.0 88.4

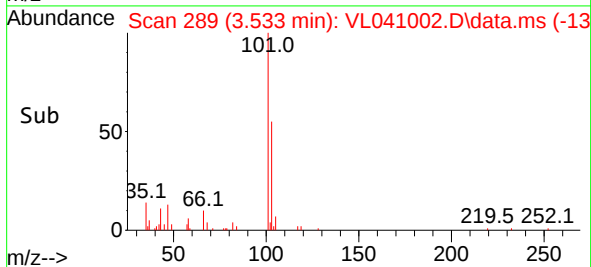
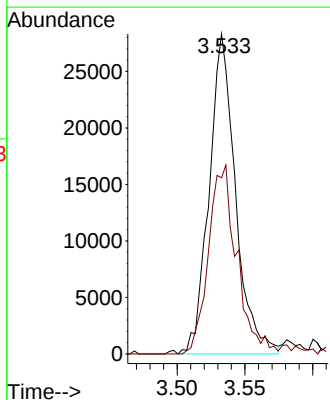
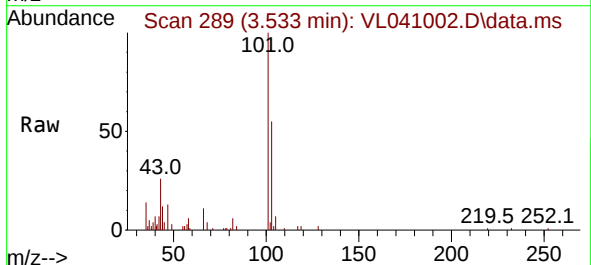
Manual Integrations  
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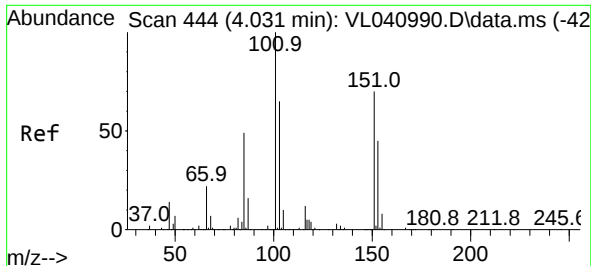
Reviewed By :Semsettin Yesilyurt 01/24/2024  
 Supervised By :Mahesh Dadoda 01/24/2024



#11  
 Trichlorofluoromethane  
 Concen: 0.214 ppbv  
 RT: 3.533 min Scan# 289  
 Delta R.T. 0.006 min  
 Lab File: VL041002.D  
 Acq: 23 Jan 2024 18:48

Tgt Ion:101 Resp: 38333  
 Ion Ratio Lower Upper  
 101 100  
 103 55.0 51.4 77.2





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.057 ppbv

RT: 4.038 min Scan# 444

Delta R.T. 0.006 min

Lab File: VL041002.D

Acq: 23 Jan 2024 18:48

Instrument :

MSVOA\_L

ClientSampleId :

OA1

Tgt Ion:101 Resp: 7372

Ion Ratio Lower Upper

101 100

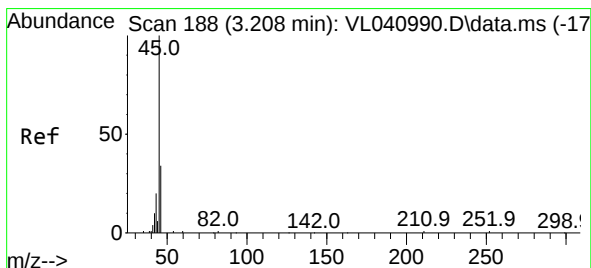
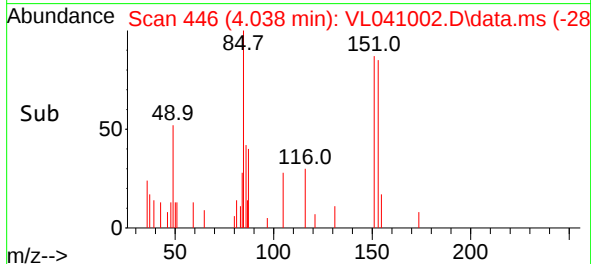
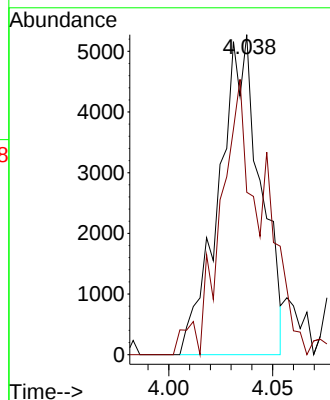
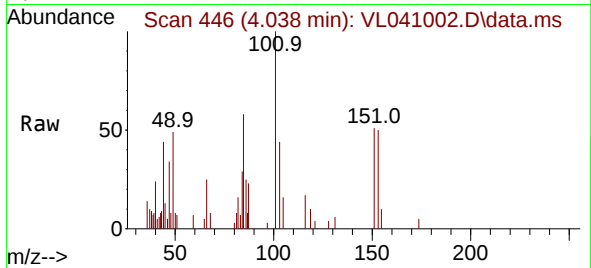
151 90.0 56.6 85.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/24/2024

Supervised By :Mahesh Dadoda 01/24/2024



#13

Ethanol

Concen: 7.008 ppbv

RT: 3.214 min Scan# 190

Delta R.T. 0.006 min

Lab File: VL041002.D

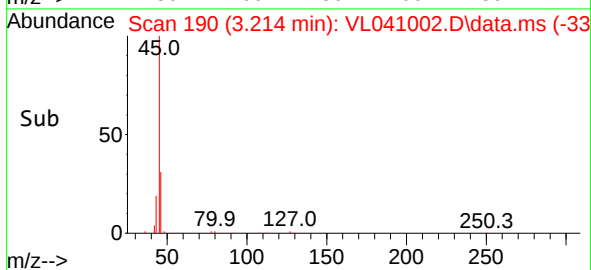
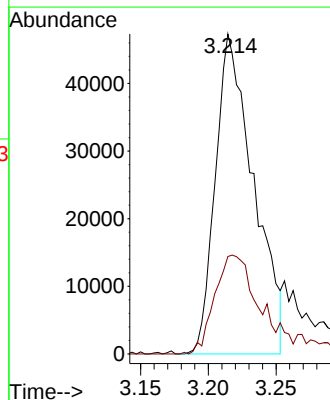
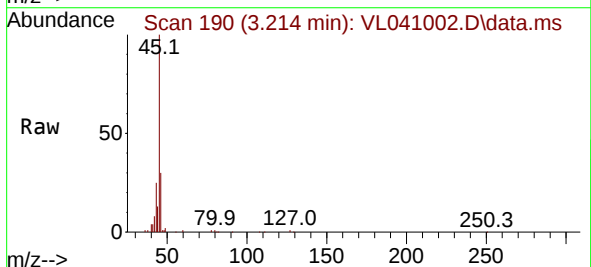
Acq: 23 Jan 2024 18:48

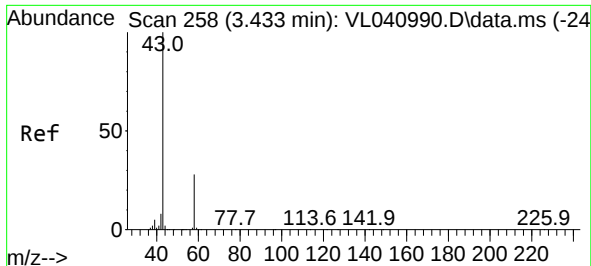
Tgt Ion: 45 Resp: 92636

Ion Ratio Lower Upper

45 100

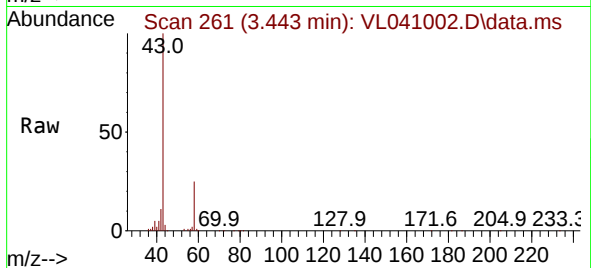
46 41.5 16.2 64.8





#15  
Acetone  
Concen: 2.688 ppbv  
RT: 3.443 min Scan# 20  
Delta R.T. 0.010 min  
Lab File: VL041002.D  
Acq: 23 Jan 2024 18:48

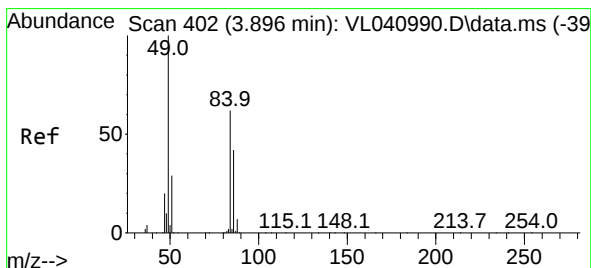
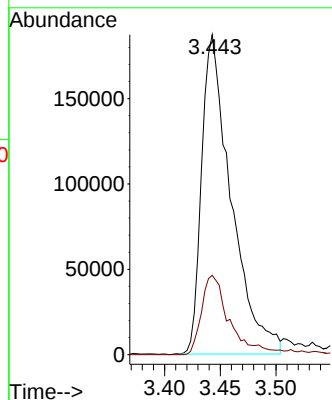
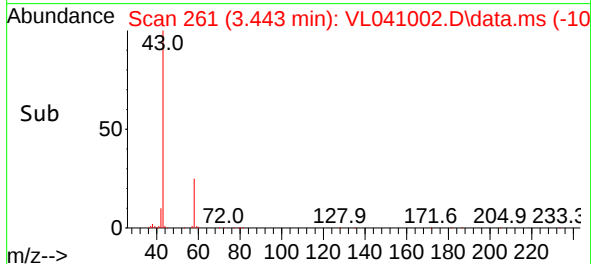
Instrument :  
MSVOA\_L  
ClientSampleId :  
OA1



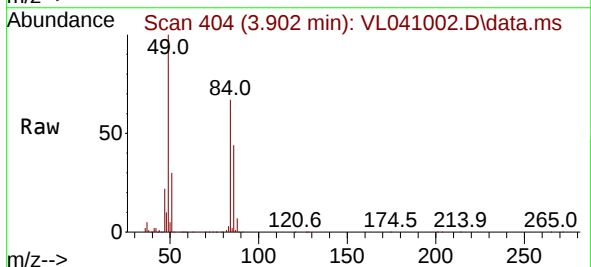
Tgt Ion: 43 Resp: 345569  
Ion Ratio Lower Upper  
43 100  
58 25.0 22.2 33.2

Manual Integrations  
APPROVED

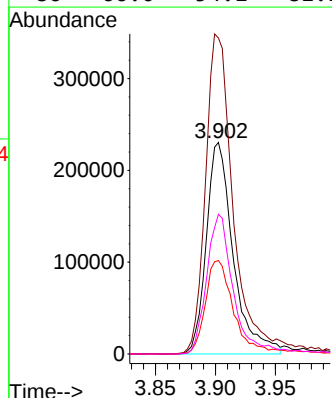
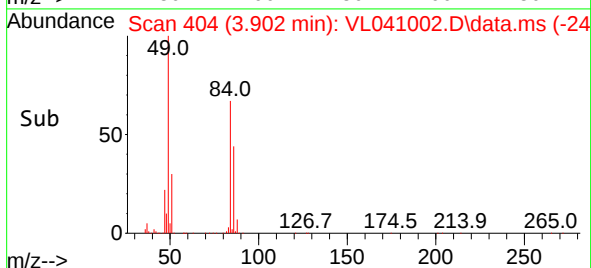
Reviewed By :Semsettin Yesilyurt 01/24/2024  
Supervised By :Mahesh Dadoda 01/24/2024

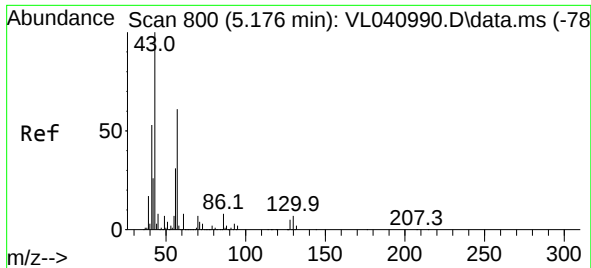


#20  
Methylene Chloride  
Concen: 7.283 ppbv  
RT: 3.902 min Scan# 404  
Delta R.T. 0.006 min  
Lab File: VL041002.D  
Acq: 23 Jan 2024 18:48



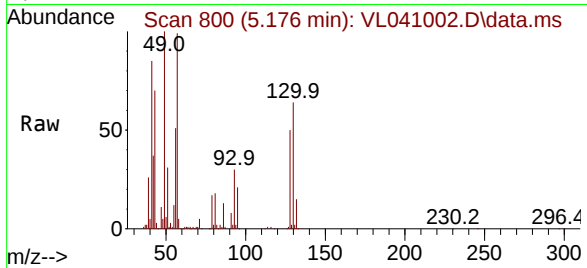
Tgt Ion: 84 Resp: 360295  
Ion Ratio Lower Upper  
84 100  
49 149.0 128.1 192.1  
51 44.1 36.5 54.7  
86 66.0 54.1 81.1





#26  
Hexane  
Concen: 2.656 ppbv  
RT: 5.176 min Scan# 800  
Delta R.T. -0.000 min  
Lab File: VL041002.D  
Acq: 23 Jan 2024 18:48

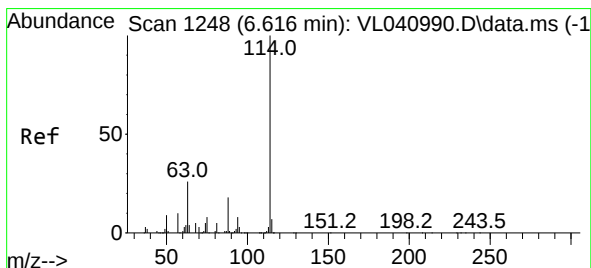
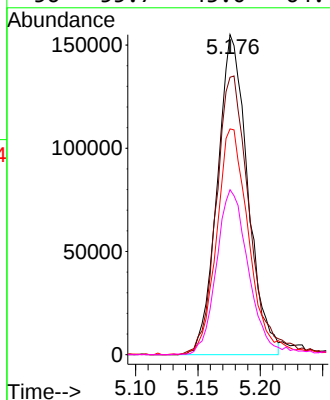
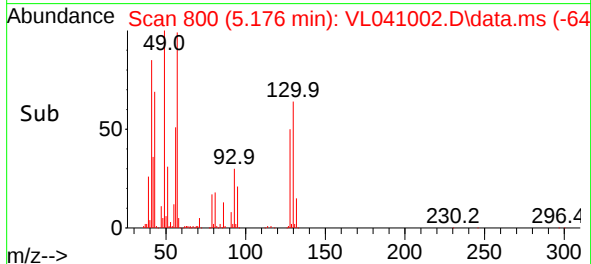
Instrument :  
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OA1



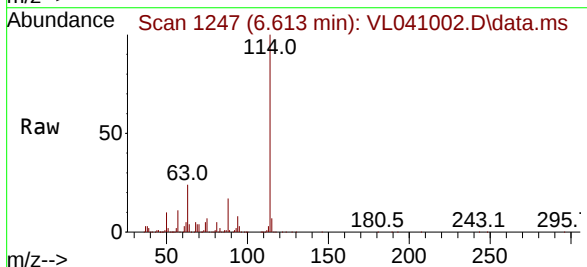
Tgt Ion: 57 Resp: 26390  
Ion Ratio Lower Upper  
57 100  
41 95.6 74.4 111.6  
43 75.9 190.6 285.8  
56 55.7 43.0 64.4

Manual Integrations  
APPROVED

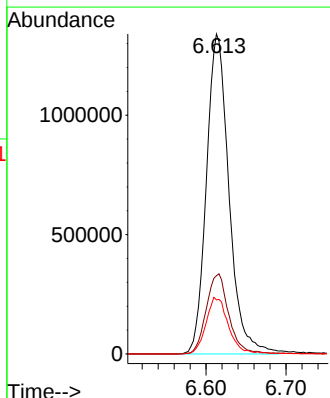
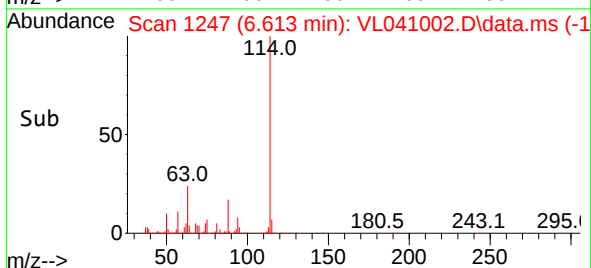
Reviewed By :Semsettin Yesilyurt 01/24/2024  
Supervised By :Mahesh Dadoda 01/24/2024

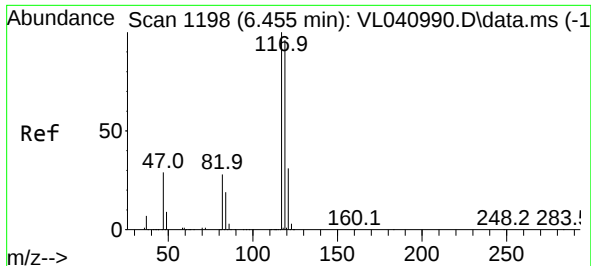


#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 6.613 min Scan# 1247  
Delta R.T. -0.003 min  
Lab File: VL041002.D  
Acq: 23 Jan 2024 18:48



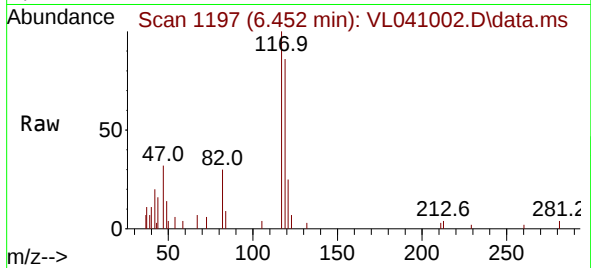
Tgt Ion:114 Resp: 2626233  
Ion Ratio Lower Upper  
114 100  
63 25.3 20.8 31.2  
88 17.9 14.3 21.5





#35  
Carbon Tetrachloride  
Concen: 0.067 ppbv m  
RT: 6.452 min Scan# 1197  
Delta R.T. -0.003 min  
Lab File: VL041002.D  
Acq: 23 Jan 2024 18:48

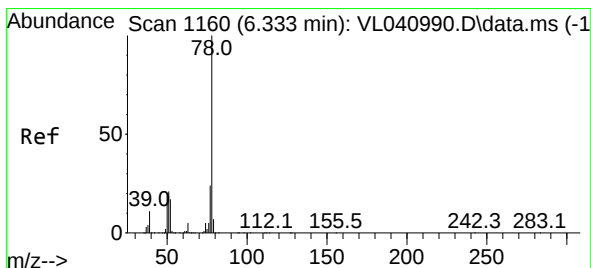
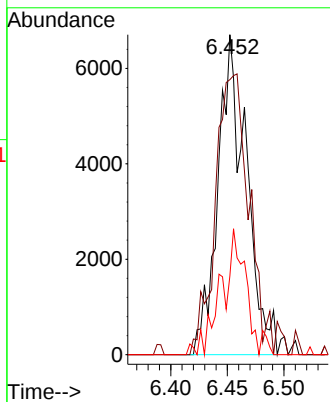
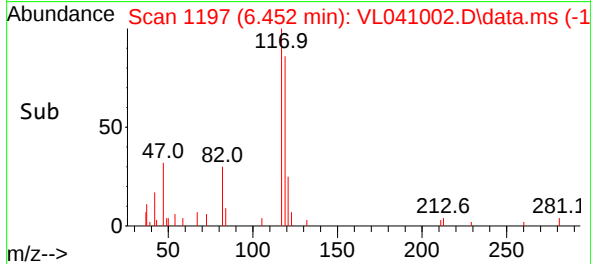
Instrument :  
MSVOA\_L  
ClientSampleId :  
OA1



Tgt Ion: 117 Resp: 11672  
Ion Ratio Lower Upper  
117 100  
119 86.0 76.9 115.3  
121 24.6 24.7 37.1

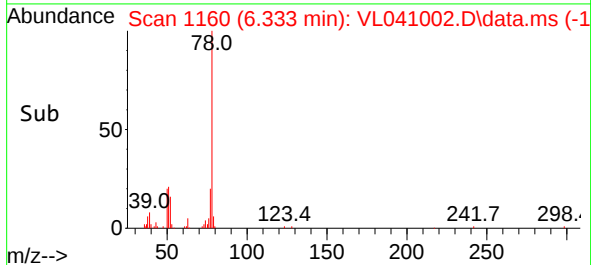
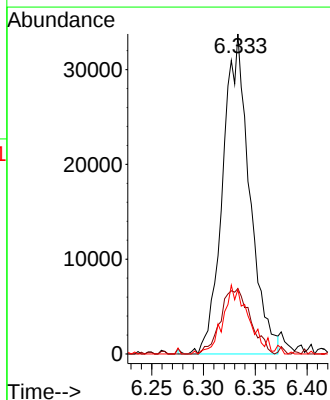
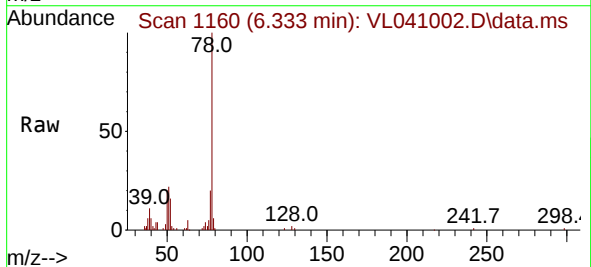
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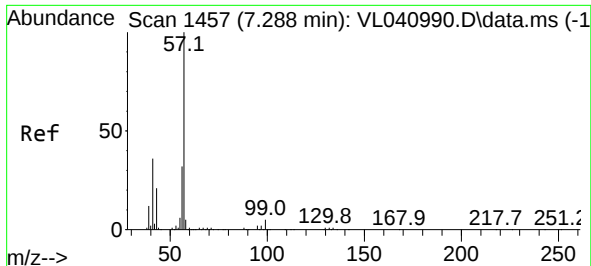
Reviewed By :Semsettin Yesilyurt 01/24/2024  
Supervised By :Mahesh Dadoda 01/24/2024



#36  
Benzene  
Concen: 0.281 ppbv m  
RT: 6.333 min Scan# 1160  
Delta R.T. -0.000 min  
Lab File: VL041002.D  
Acq: 23 Jan 2024 18:48

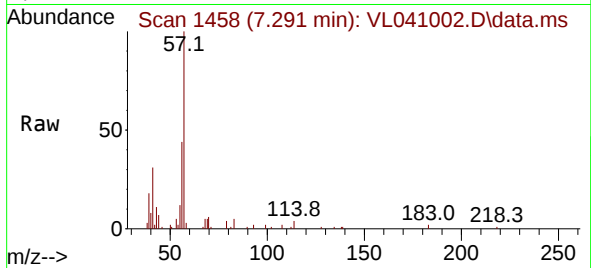
Tgt Ion: 78 Resp: 60881  
Ion Ratio Lower Upper  
78 100  
77 20.5 19.0 28.4  
50 20.1 15.8 23.6





#44  
2,2,4-Trimethylpentane  
Concen: 0.099 ppbv m  
RT: 7.291 min Scan# 1458  
Delta R.T. 0.003 min  
Lab File: VL041002.D  
Acq: 23 Jan 2024 18:48

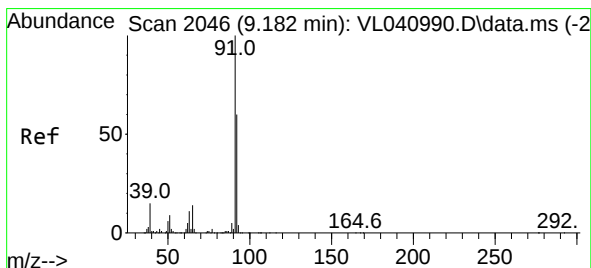
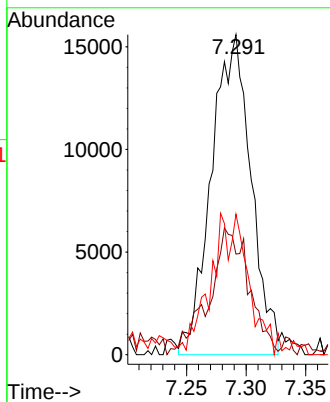
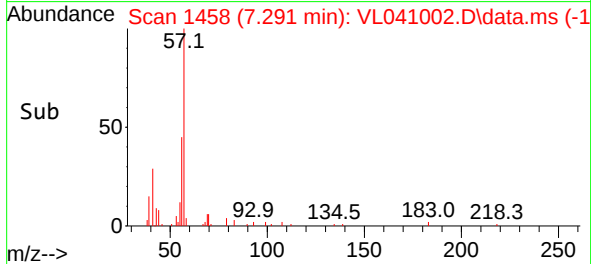
Instrument :  
MSVOA\_L  
ClientSampleId :  
OA1



Tgt Ion: 57 Resp: 36140  
Ion Ratio Lower Upper  
57 100  
41 45.5 28.6 43.0  
56 46.0 25.2 37.8

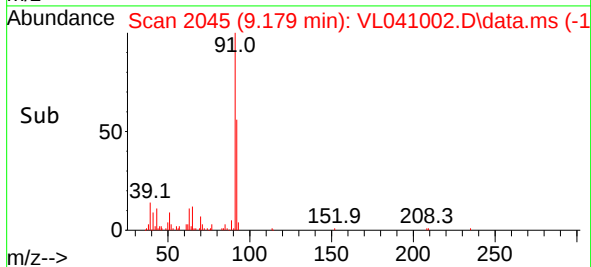
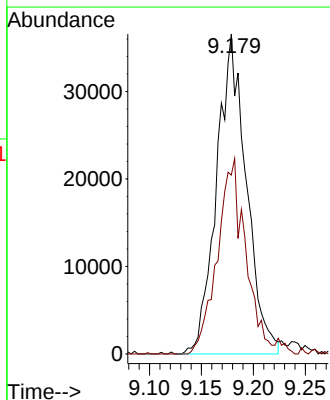
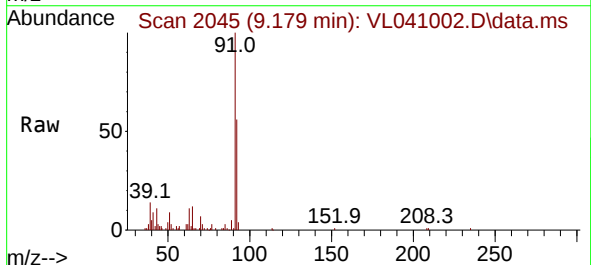
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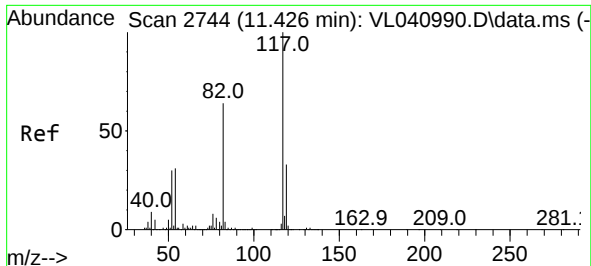
Reviewed By :Semsettin Yesilyurt 01/24/2024  
Supervised By :Mahesh Dadoda 01/24/2024



#53  
Toluene  
Concen: 0.306 ppbv  
RT: 9.179 min Scan# 2045  
Delta R.T. -0.003 min  
Lab File: VL041002.D  
Acq: 23 Jan 2024 18:48

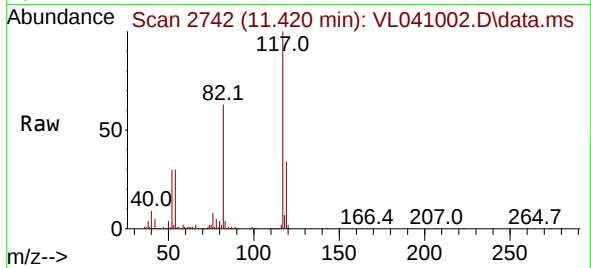
Tgt Ion: 91 Resp: 72668  
Ion Ratio Lower Upper  
91 100  
92 59.9 48.6 72.8





#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.420 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: VL041002.D  
Acq: 23 Jan 2024 18:48

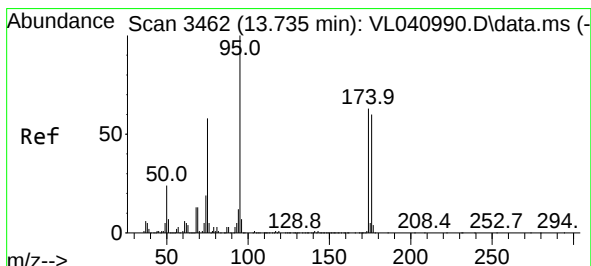
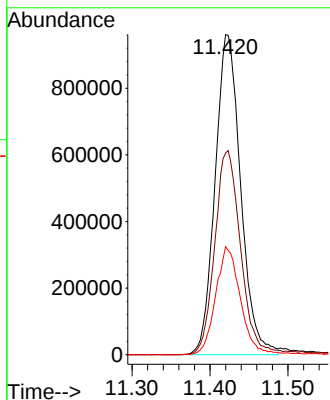
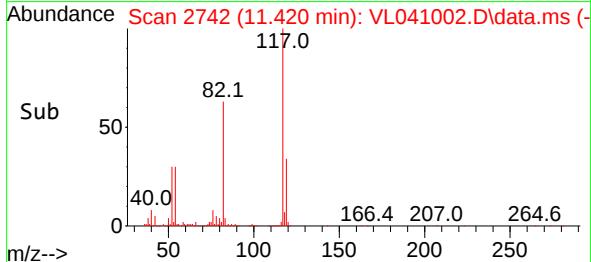
Instrument :  
MSVOA\_L  
ClientSampleId :  
OA1



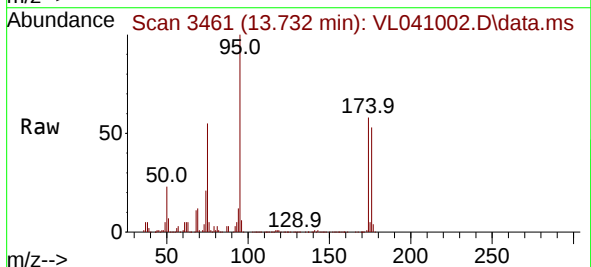
Tgt Ion: 117 Resp: 2193879  
Ion Ratio Lower Upper  
117 100  
82 65.6 51.7 77.5  
119 33.0 23.8 35.6

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 01/24/2024  
Supervised By :Mahesh Dadoda 01/24/2024



#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.883 ppbv  
RT: 13.732 min Scan# 3461  
Delta R.T. -0.003 min  
Lab File: VL041002.D  
Acq: 23 Jan 2024 18:48



Tgt Ion: 95 Resp: 1637695  
Ion Ratio Lower Upper  
95 100  
174 61.6 49.1 73.7  
175 4.6 3.7 5.5

