

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL061625\  
 Data File : VL042632.D  
 Acq On : 16 Jun 2025 16:53  
 Operator : SY/MD  
 Sample : Q2317-05 4X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 115-SG2

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 06/17/2025  
 Supervised By :Mahesh Dadoda 06/17/2025

Quant Time: Jun 17 03:08:00 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL052925AIR.M

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

QLast Update : Fri May 30 02:01:56 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.790 | 49   | 104277   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.965 | 114  | 283950   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.888 | 117  | 250604   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 195002 10.380 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 103.800%

Target Compounds

|                            |        |     |        |         |        | Qvalue |
|----------------------------|--------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane | 1.499  | 85  | 1782   | 0.139   | ppbv   | 100    |
| 4) Chloromethane           | 1.534  | 50  | 11295  | 2.226   | ppbv   | 91     |
| 7) Chloroethane            | 1.706  | 64  | 1674   | 0.833   | ppbv   | 91     |
| 9) Propene                 | 1.483  | 41  | 5661   | 0.796   | ppbv   | 96     |
| 11) Trichlorofluoromethane | 1.881  | 101 | 42477  | 3.562   | ppbv   | 98     |
| 13) Ethanol                | 1.722  | 45  | 120630 | 142.401 | ppbv   | 97     |
| 15) Acetone                | 1.839  | 43  | 165449 | 13.172  | ppbv   | 97     |
| 19) Isopropyl Alcohol      | 1.887  | 45  | 22537  | 3.001   | ppbv # | 1      |
| 20) Methylene Chloride     | 2.065  | 84  | 2944   | 0.710   | ppbv # | 82     |
| 26) Hexane                 | 2.832  | 57  | 3435   | 0.220   | ppbv # | 66     |
| 29) Chloroform             | 2.852  | 83  | 42100  | 2.073   | ppbv   | 97     |
| 34) 2-Butanone             | 2.564  | 43  | 19644  | 0.970   | ppbv   | 98     |
| 36) Benzene                | 3.664  | 78  | 22890  | 0.819   | ppbv   | 97     |
| 38) Trichloroethene        | 4.554  | 130 | 38427  | 3.233   | ppbv   | 91     |
| 41) Tetrahydrofuran        | 3.069  | 42  | 6042   | 0.510   | ppbv # | 91     |
| 43) Methyl Methacrylate    | 4.891  | 69  | 48265  | 4.447   | ppbv   | 98     |
| 52) Tetrachloroethene      | 8.231  | 164 | 32112  | 3.073   | ppbv   | 97     |
| 53) Toluene                | 6.933  | 91  | 4123m  | 0.128   | ppbv   |        |
| 59) m/p-Xylene             | 9.532  | 91  | 3722m  | 0.111   | ppbv   |        |
| 76) 1,4-Dichlorobenzene    | 11.678 | 146 | 29939  | 1.251   | ppbv   | 97     |

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

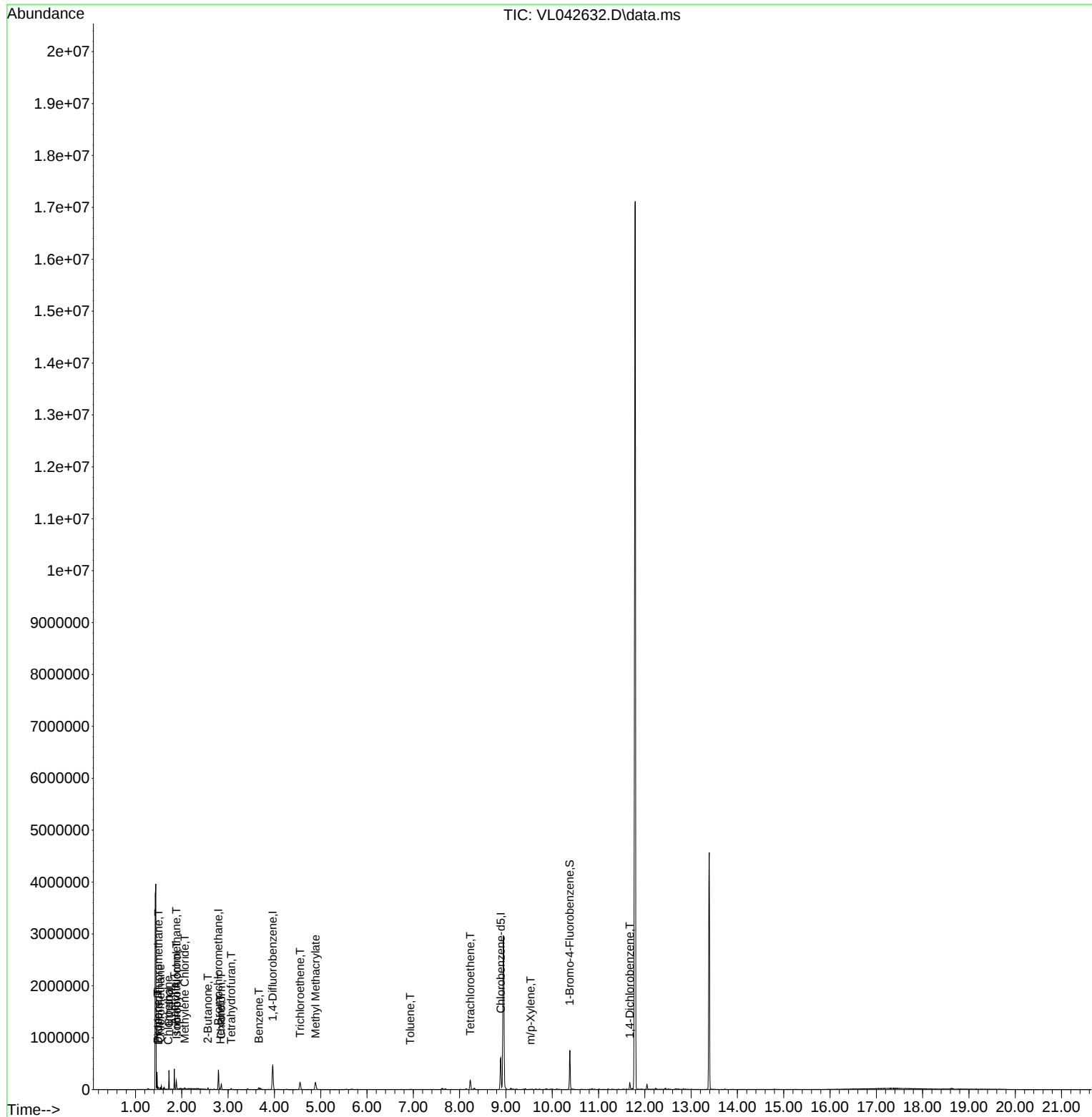
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL061625\  
Data File : VL042632.D  
Acq On : 16 Jun 2025 16:53  
Operator : SY/MD  
Sample : Q2317-05 4X  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

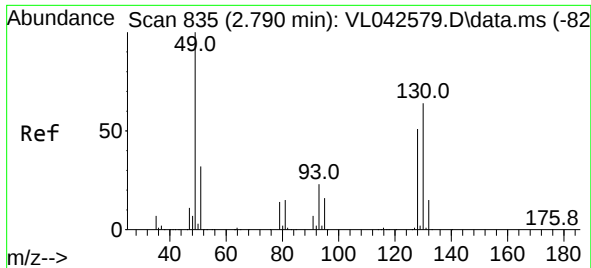
Instrument :  
MSVOA\_L  
ClientSampleId :  
115-SG2

Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 06/17/2025  
Supervised By :Mahesh Dadoda 06/17/2025

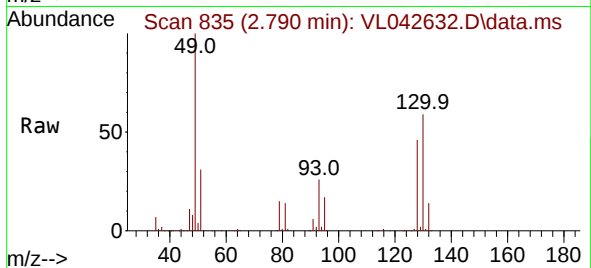
Quant Time: Jun 17 03:08:00 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL052925AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Fri May 30 02:01:56 2025  
Response via : Initial Calibration





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.790 min Scan# 811  
Delta R.T. 0.000 min  
Lab File: VL042632.D  
Acq: 16 Jun 2025 16:53

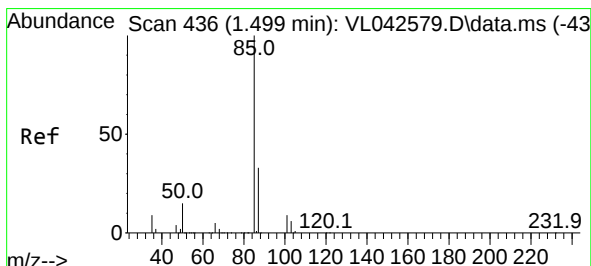
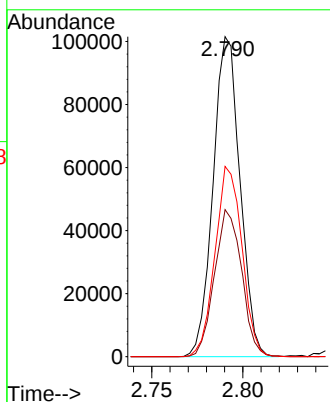
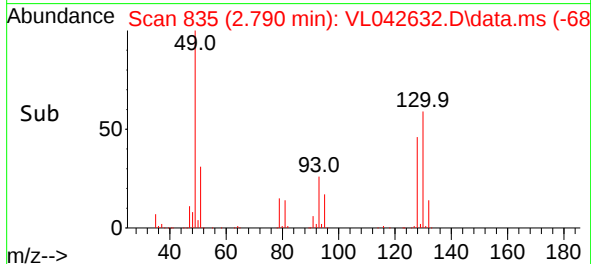
Instrument :  
MSVOA\_L  
ClientSampleId :  
115-SG2



Tgt Ion: 49 Resp: 10427  
Ion Ratio Lower Upper  
49 100  
128 46.3 24.2 72.6  
130 59.5 30.4 91.2

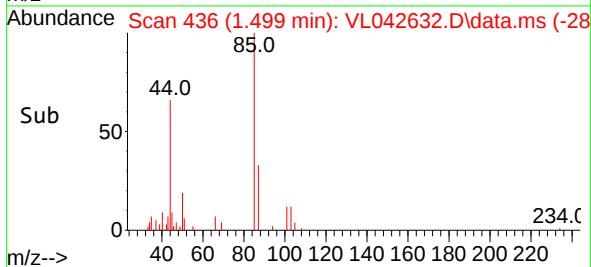
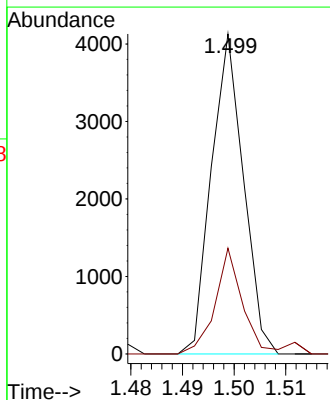
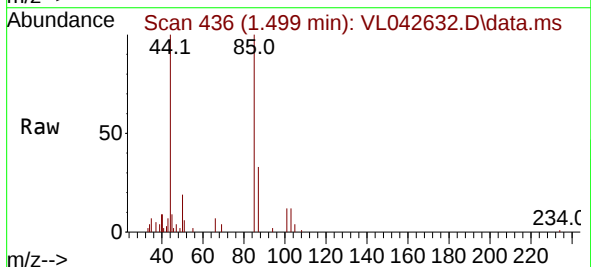
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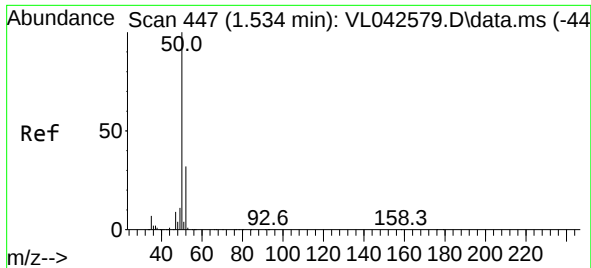
Reviewed By :Semsettin Yesilyurt 06/17/2025  
Supervised By :Mahesh Dadoda 06/17/2025



#2  
Dichlorodifluoromethane  
Concen: 0.139 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. -0.000 min  
Lab File: VL042632.D  
Acq: 16 Jun 2025 16:53

Tgt Ion: 85 Resp: 1782  
Ion Ratio Lower Upper  
85 100  
87 33.0 26.6 39.8





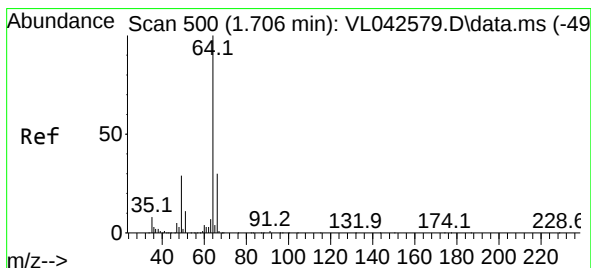
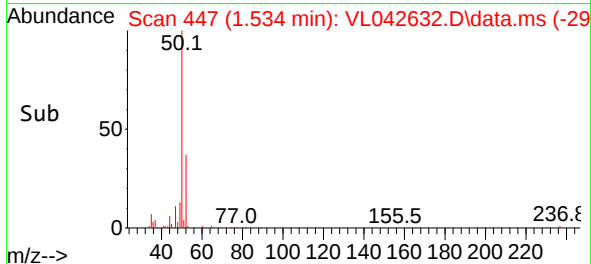
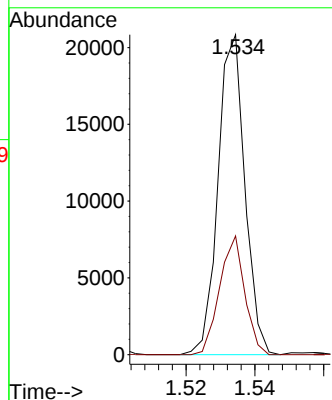
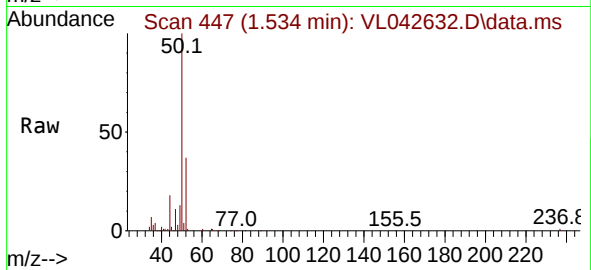
#4  
Chloromethane  
Concen: 2.226 ppbv  
RT: 1.534 min Scan# 447  
Delta R.T. -0.000 min  
Lab File: VL042632.D  
Acq: 16 Jun 2025 16:53

Instrument :  
MSVOA\_L  
ClientSampleId :  
115-SG2

Tgt Ion: 50 Resp: 1129  
Ion Ratio Lower Upper  
50 100  
52 37.1 25.8 38.6

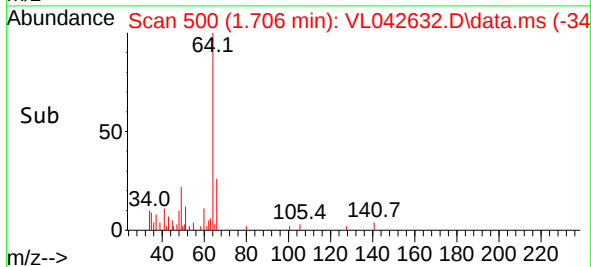
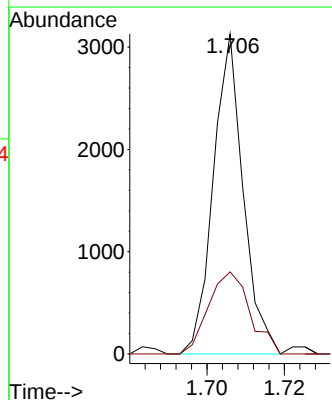
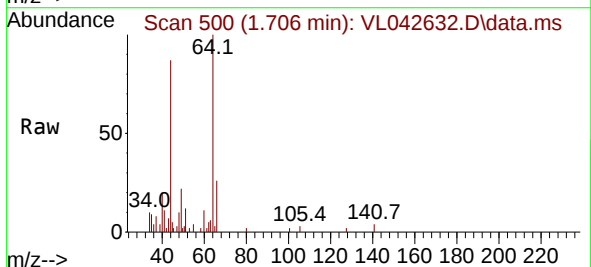
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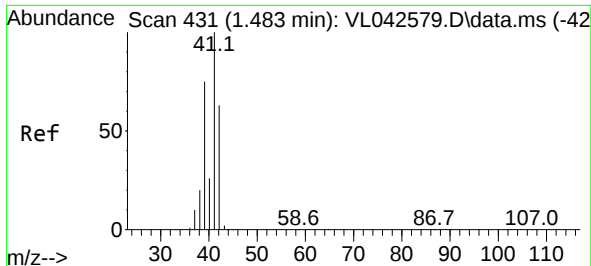
Reviewed By :Semsettin Yesilyurt 06/17/2025  
Supervised By :Mahesh Dadoda 06/17/2025



#7  
Chloroethane  
Concen: 0.833 ppbv  
RT: 1.706 min Scan# 500  
Delta R.T. 0.000 min  
Lab File: VL042632.D  
Acq: 16 Jun 2025 16:53

Tgt Ion: 64 Resp: 1674  
Ion Ratio Lower Upper  
64 100  
66 25.6 24.3 36.5





#9

Propene

Concen: 0.796 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042632.D

Acq: 16 Jun 2025 16:53

Instrument :

MSVOA\_L

ClientSampleId :

115-SG2

Tgt Ion: 41 Resp: 566

Ion Ratio Lower Upper

41 100

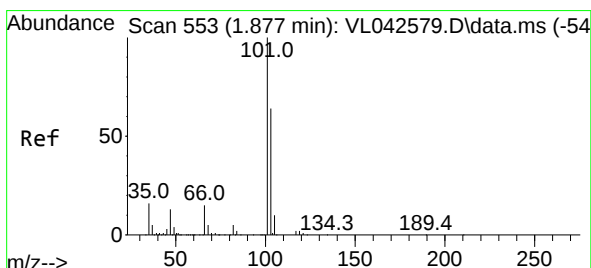
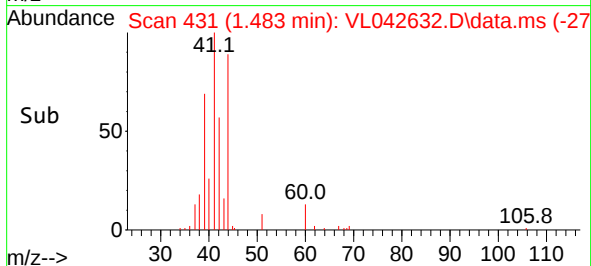
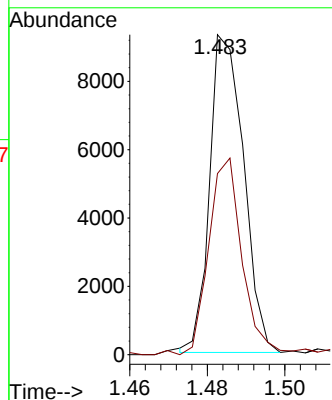
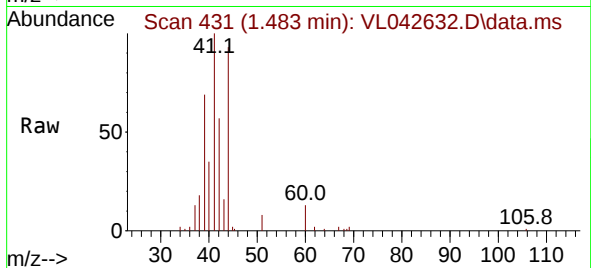
42 69.6 53.3 79.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 06/17/2025

Supervised By :Mahesh Dadoda 06/17/2025



#11

Trichlorofluoromethane

Concen: 3.562 ppbv

RT: 1.881 min Scan# 554

Delta R.T. 0.003 min

Lab File: VL042632.D

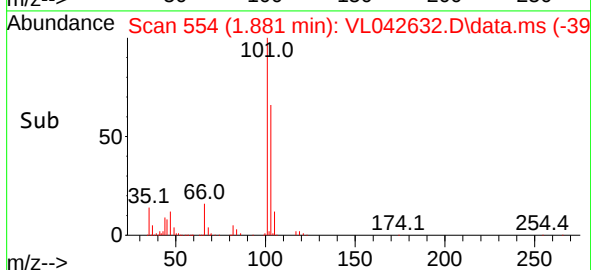
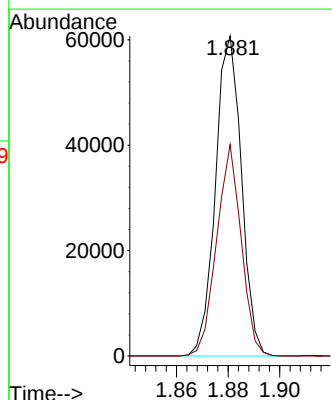
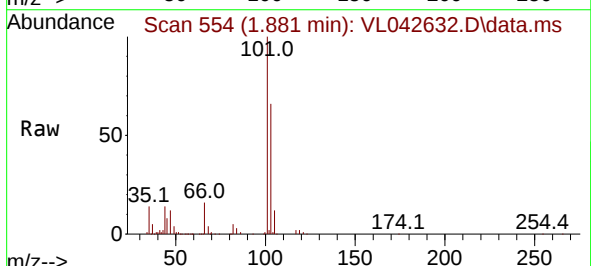
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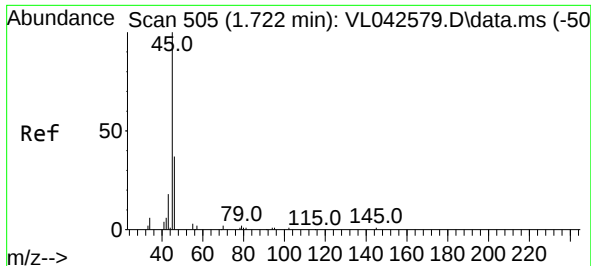
Tgt Ion:101 Resp: 42477

Ion Ratio Lower Upper

101 100

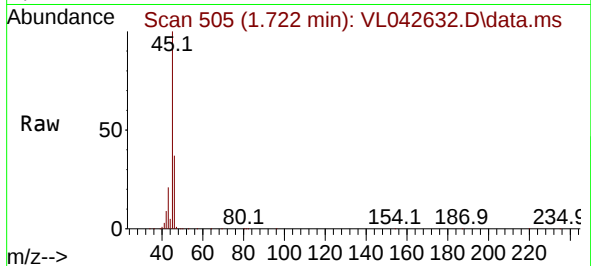
103 66.0 51.5 77.3





#13  
Ethanol  
Concen: 142.401 ppbv  
RT: 1.722 min Scan# 505  
Delta R.T. 0.000 min  
Lab File: VL042632.D  
Acq: 16 Jun 2025 16:53

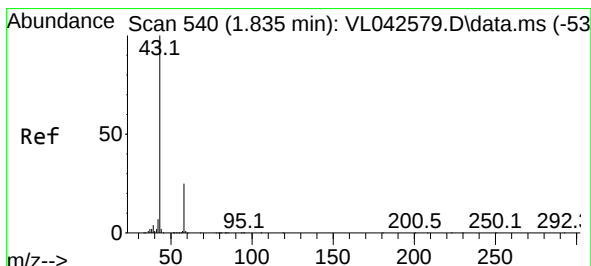
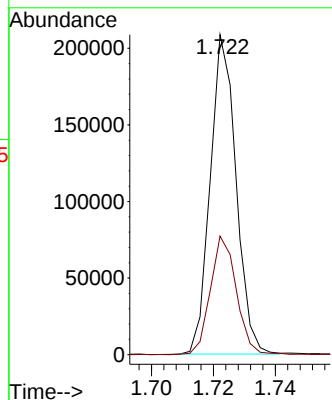
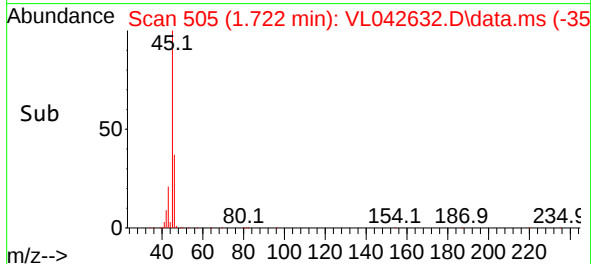
Instrument :  
MSVOA\_L  
ClientSampleId :  
115-SG2



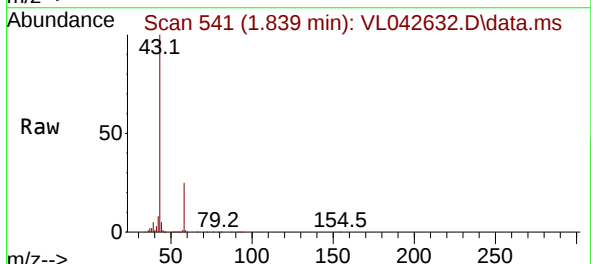
Tgt Ion: 45 Resp: 120630  
Ion Ratio Lower Upper  
45 100  
46 38.0 14.5 58.1

Manual Integrations  
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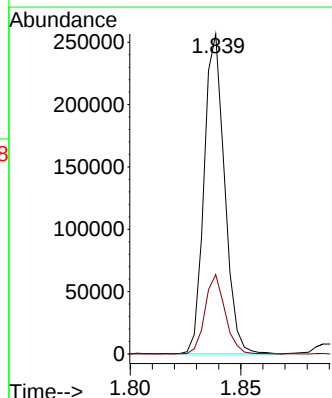
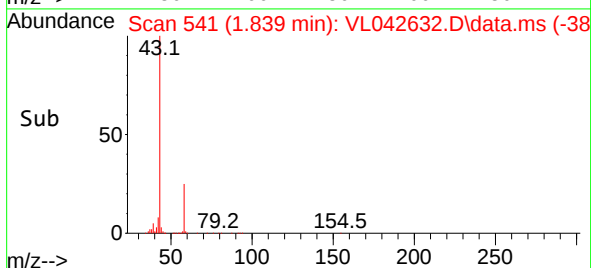
Reviewed By :Semsettin Yesilyurt 06/17/2025  
Supervised By :Mahesh Dadoda 06/17/2025

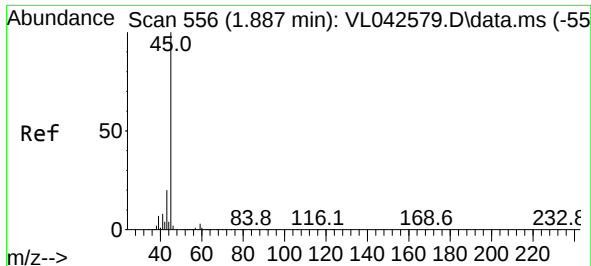


#15  
Acetone  
Concen: 13.172 ppbv  
RT: 1.839 min Scan# 541  
Delta R.T. 0.003 min  
Lab File: VL042632.D  
Acq: 16 Jun 2025 16:53



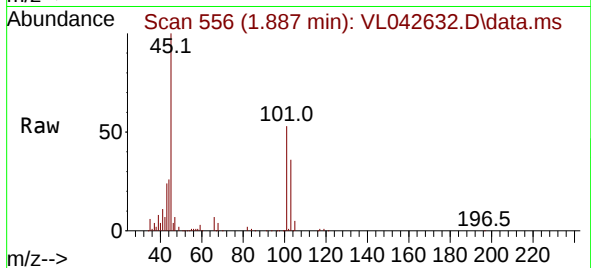
Tgt Ion: 43 Resp: 165449  
Ion Ratio Lower Upper  
43 100  
58 24.4 21.0 31.4





#19  
Isopropyl Alcohol  
Concen: 3.001 ppbv  
RT: 1.887 min Scan# 556  
Delta R.T. 0.000 min  
Lab File: VL042632.D  
Acq: 16 Jun 2025 16:53

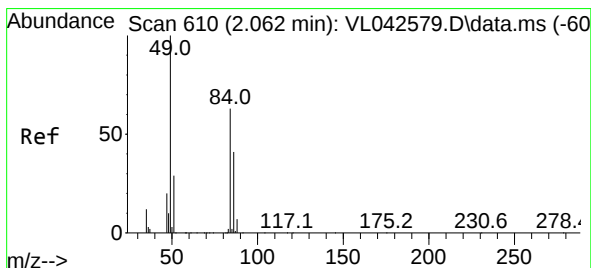
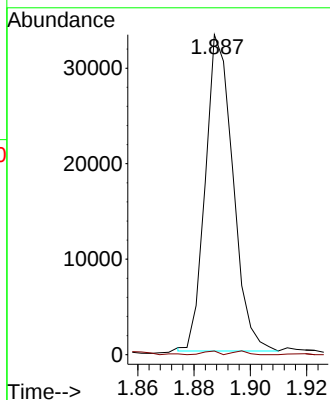
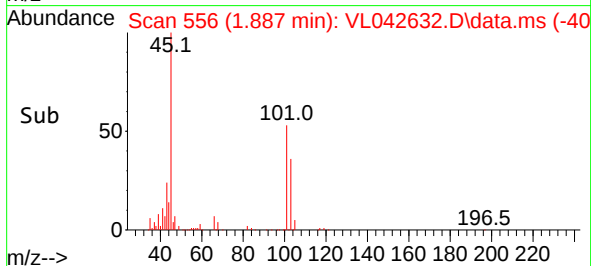
Instrument :  
MSVOA\_L  
ClientSampleId :  
115-SG2



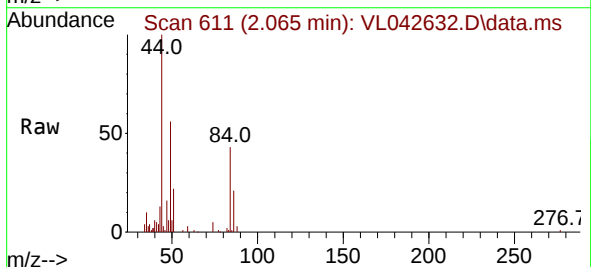
Tgt Ion: 45 Resp: 2253  
Ion Ratio Lower Upper  
45 100  
58 178.7 29.4 44.2

Manual Integrations  
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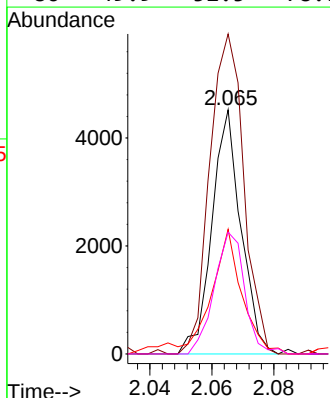
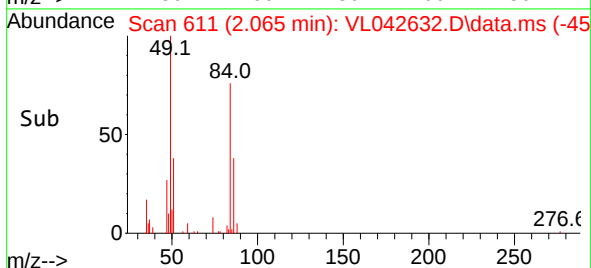
Reviewed By :Semsettin Yesilyurt 06/17/2025  
Supervised By :Mahesh Dadoda 06/17/2025

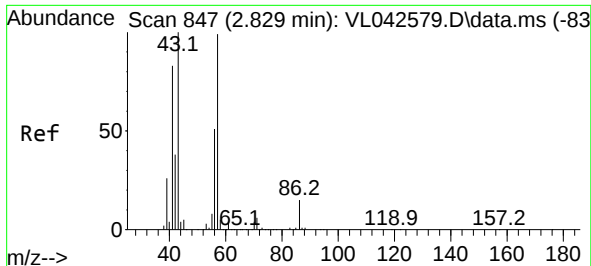


#20  
Methylene Chloride  
Concen: 0.710 ppbv  
RT: 2.065 min Scan# 611  
Delta R.T. 0.003 min  
Lab File: VL042632.D  
Acq: 16 Jun 2025 16:53



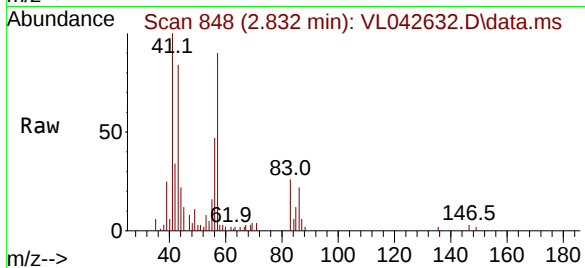
Tgt Ion: 84 Resp: 2944  
Ion Ratio Lower Upper  
84 100  
49 131.1 128.8 193.2  
51 48.7 38.6 57.8  
86 49.9 52.5 78.7





#26  
Hexane  
Concen: 0.220 ppbv  
RT: 2.832 min Scan# 847  
Delta R.T. 0.003 min  
Lab File: VL042632.D  
Acq: 16 Jun 2025 16:53

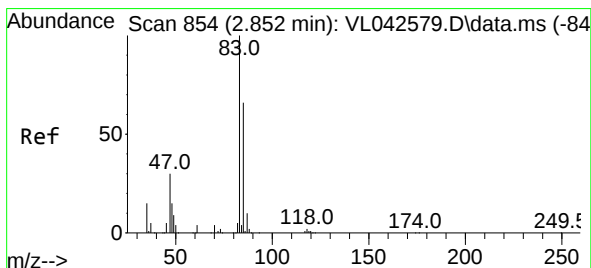
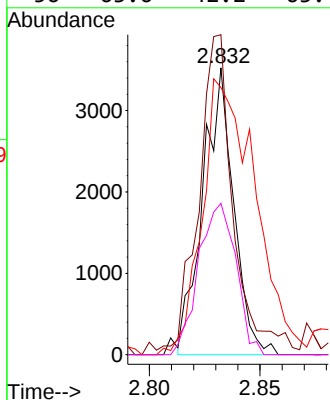
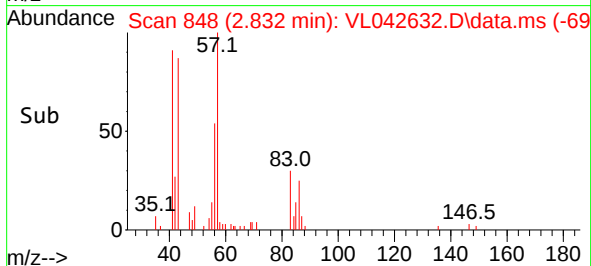
Instrument :  
MSVOA\_L  
ClientSampleId :  
115-SG2



Tgt Ion: 57 Resp: 343  
Ion Ratio Lower Upper  
57 100  
41 134.5 70.6 106.0  
43 173.6 181.1 271.7  
56 63.6 42.2 63.4

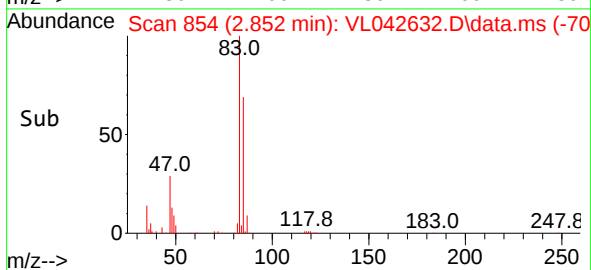
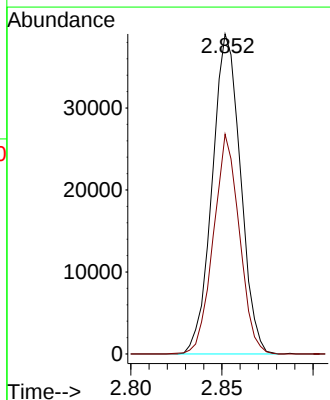
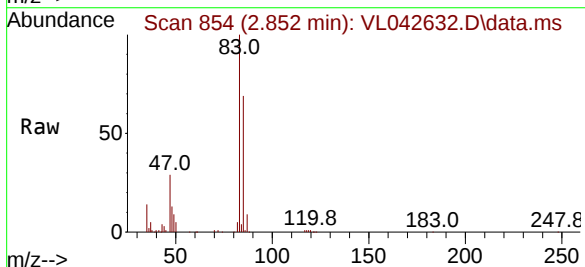
Manual Integrations  
APPROVED

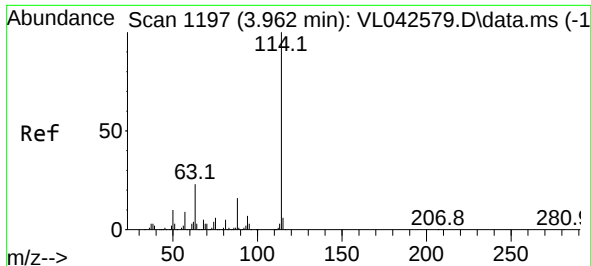
Reviewed By :Semsettin Yesilyurt 06/17/2025  
Supervised By :Mahesh Dadoda 06/17/2025



#29  
Chloroform  
Concen: 2.073 ppbv  
RT: 2.852 min Scan# 854  
Delta R.T. -0.000 min  
Lab File: VL042632.D  
Acq: 16 Jun 2025 16:53

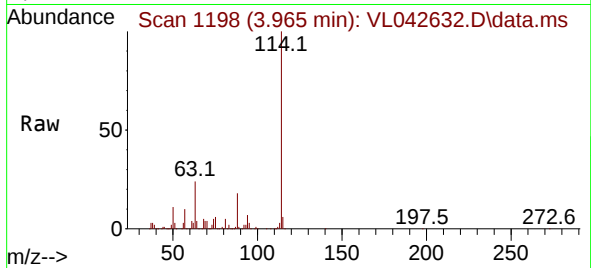
Tgt Ion: 83 Resp: 42100  
Ion Ratio Lower Upper  
83 100  
85 68.6 52.8 79.2





#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.965 min Scan# 1198  
Delta R.T. 0.003 min  
Lab File: VL042632.D  
Acq: 16 Jun 2025 16:53

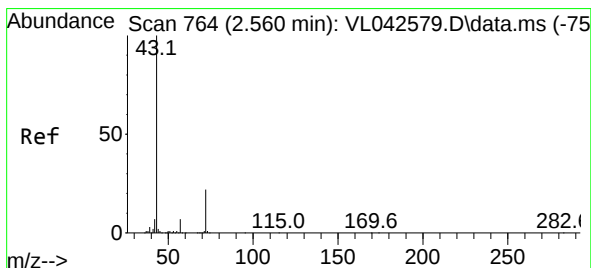
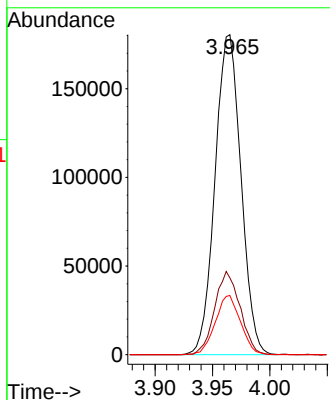
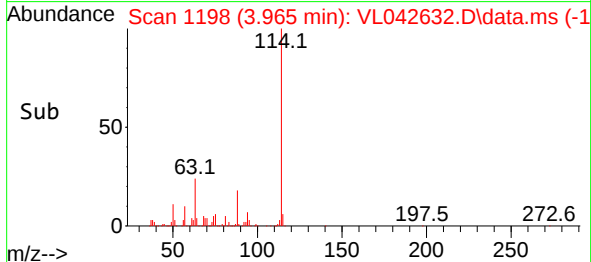
Instrument :  
MSVOA\_L  
ClientSampleId :  
115-SG2



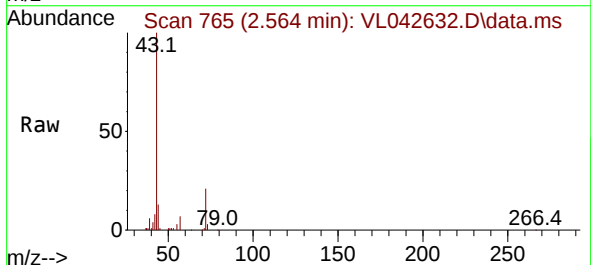
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Ion Ratio Lower Upper  
114 100  
63 25.5 19.0 28.6  
88 18.0 13.6 20.4

Manual Integrations  
APPROVED

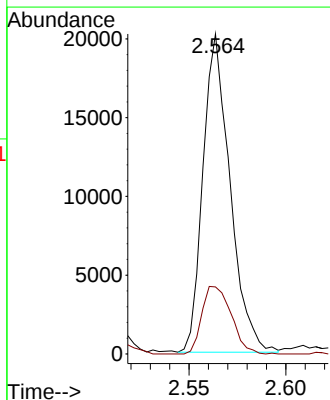
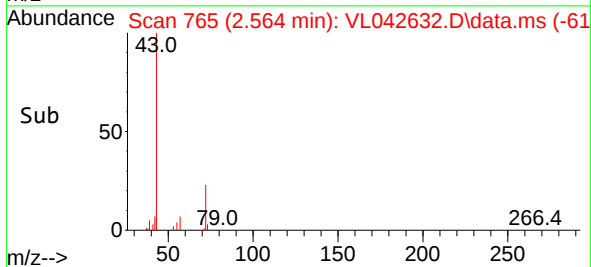
Reviewed By :Semsettin Yesilyurt 06/17/2025  
Supervised By :Mahesh Dadoda 06/17/2025

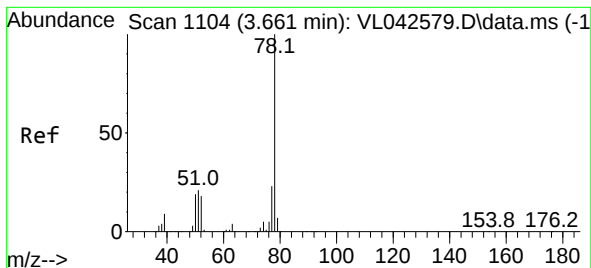


#34  
2-Butanone  
Concen: 0.970 ppbv  
RT: 2.564 min Scan# 765  
Delta R.T. 0.003 min  
Lab File: VL042632.D  
Acq: 16 Jun 2025 16:53



Tgt Ion: 43 Resp: 19644  
Ion Ratio Lower Upper  
43 100  
72 22.9 17.7 26.5





#36

Benzene

Concen: 0.819 ppbv

RT: 3.664 min Scan# 1104

Delta R.T. 0.003 min

Lab File: VL042632.D

Acq: 16 Jun 2025 16:53

Instrument :

MSVOA\_L

ClientSampleId :

115-SG2

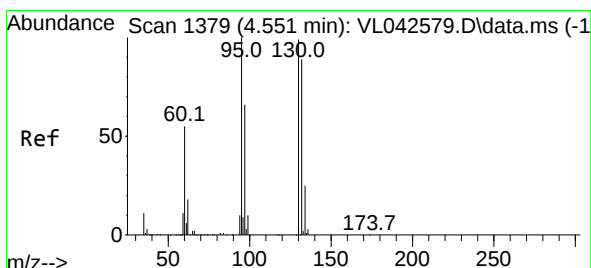
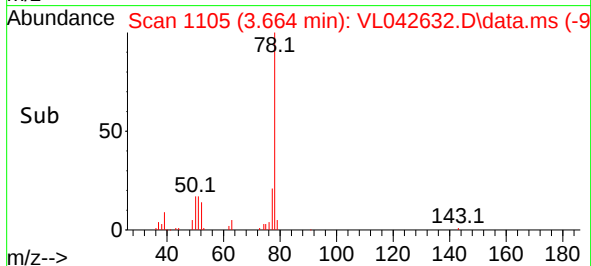
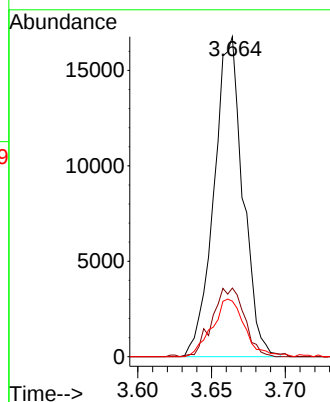
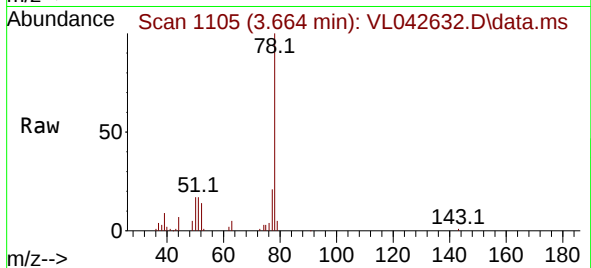
Tgt Ion: 78 Resp: 22890

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 78  | 100   |       |       |
| 77  | 21.5  | 18.2  | 27.2  |
| 50  | 17.3  | 15.2  | 22.8  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/17/2025  
Supervised By :Mahesh Dadoda 06/17/2025



#38

Trichloroethene

Concen: 3.233 ppbv

RT: 4.554 min Scan# 1380

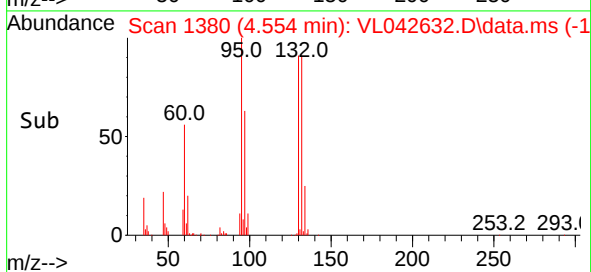
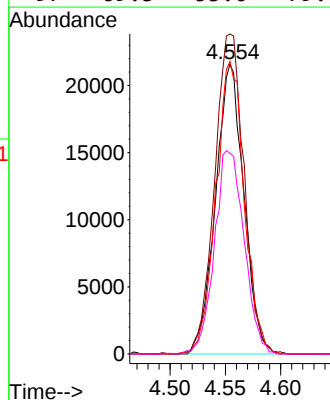
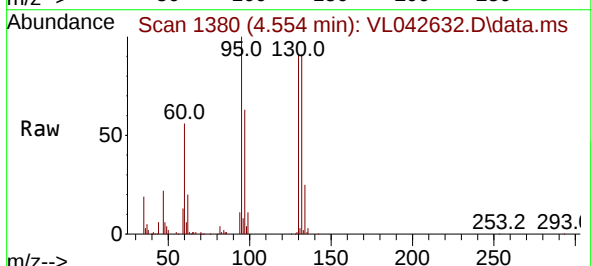
Delta R.T. 0.003 min

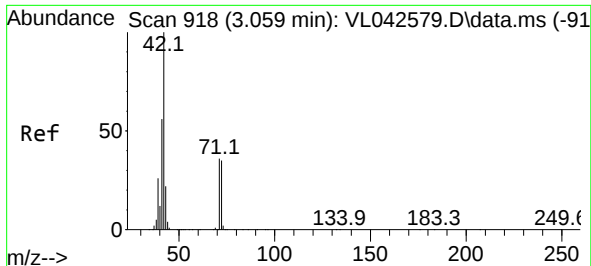
Lab File: VL042632.D

Acq: 16 Jun 2025 16:53

Tgt Ion:130 Resp: 38427

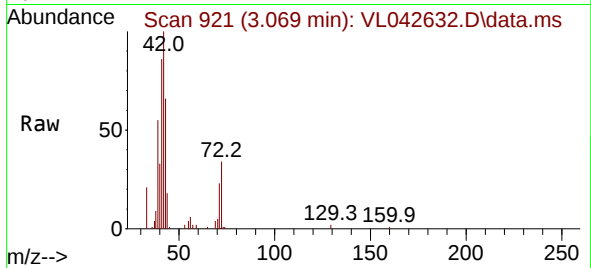
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 130 | 100   |       |       |
| 95  | 110.5 | 80.6  | 121.0 |
| 132 | 101.0 | 71.8  | 107.6 |
| 97  | 69.3  | 53.0  | 79.4  |





#41  
Tetrahydrofuran  
Concen: 0.510 ppbv  
RT: 3.069 min Scan# 918  
Delta R.T. 0.010 min  
Lab File: VL042632.D  
Acq: 16 Jun 2025 16:53

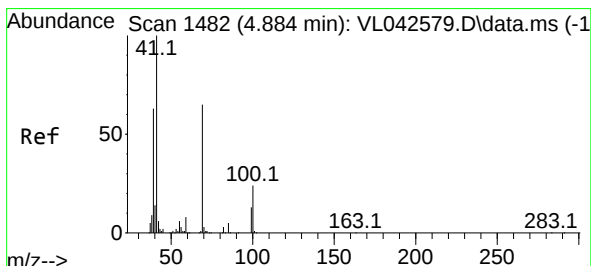
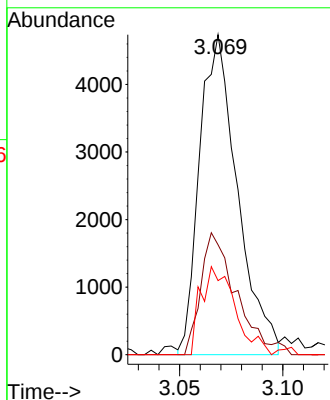
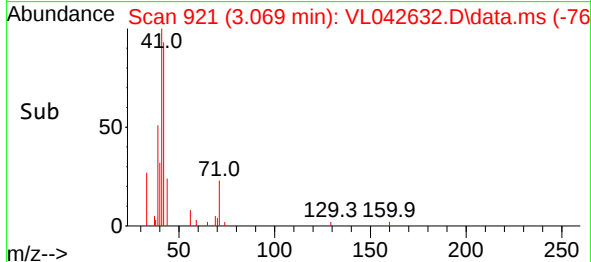
Instrument :  
MSVOA\_L  
ClientSampleId :  
115-SG2



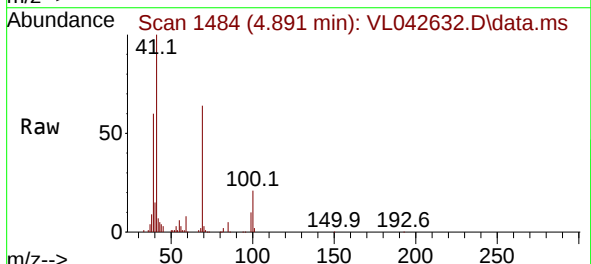
Tgt Ion: 42 Resp: 6042  
Ion Ratio Lower Upper  
42 100  
72 36.0 28.9 43.3  
71 25.6 28.5 42.7

Manual Integrations  
APPROVED

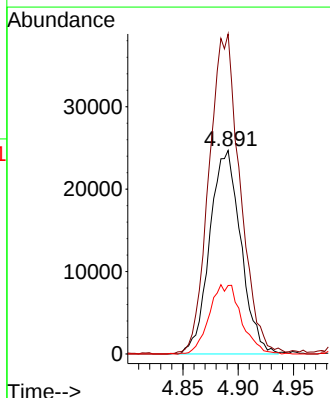
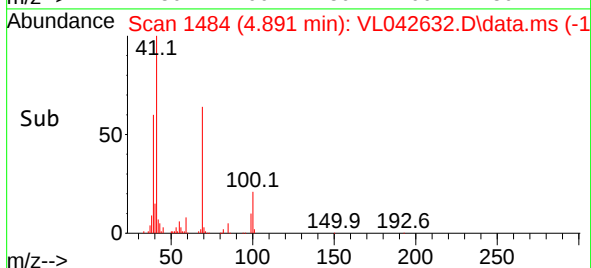
Reviewed By :Semsettin Yesilyurt 06/17/2025  
Supervised By :Mahesh Dadoda 06/17/2025

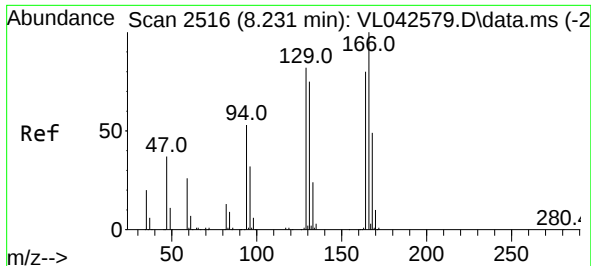


#43  
Methyl Methacrylate  
Concen: 4.447 ppbv  
RT: 4.891 min Scan# 1484  
Delta R.T. 0.006 min  
Lab File: VL042632.D  
Acq: 16 Jun 2025 16:53



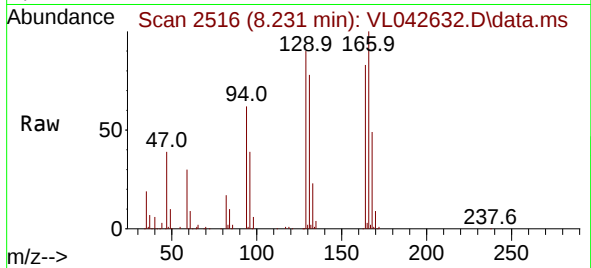
Tgt Ion: 69 Resp: 48265  
Ion Ratio Lower Upper  
69 100  
41 158.4 124.6 187.0  
100 35.2 29.9 44.9





#52  
Tetrachloroethene  
Concen: 3.073 ppbv  
RT: 8.231 min Scan# 2115  
Delta R.T. 0.000 min  
Lab File: VL042632.D  
Acq: 16 Jun 2025 16:53

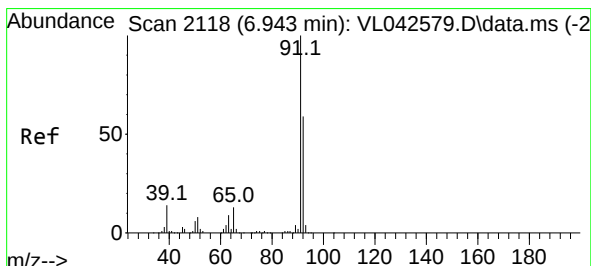
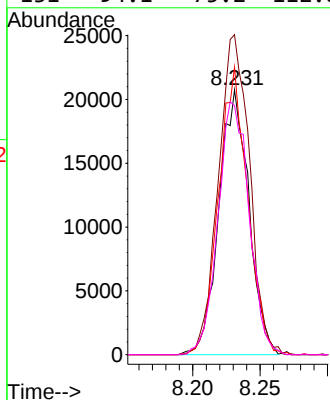
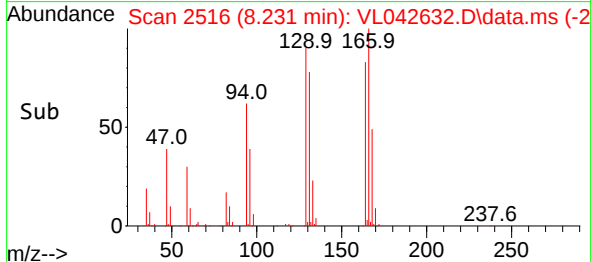
Instrument :  
MSVOA\_L  
ClientSampleId :  
115-SG2



Tgt Ion:164 Resp: 3211  
Ion Ratio Lower Upper  
164 100  
166 120.9 100.0 150.0  
129 108.6 82.2 123.4  
131 94.1 75.2 112.8

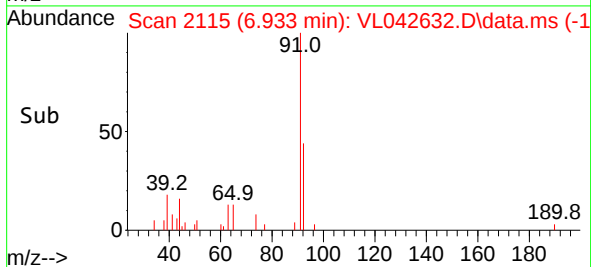
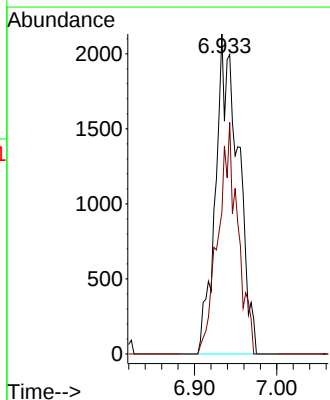
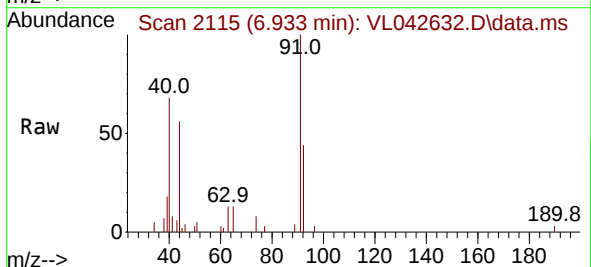
Manual Integrations  
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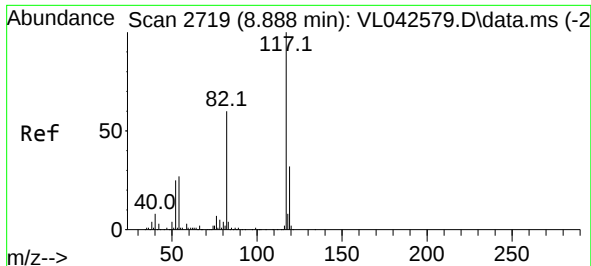
Reviewed By :Semsettin Yesilyurt 06/17/2025  
Supervised By :Mahesh Dadoda 06/17/2025



#53  
Toluene  
Concen: 0.128 ppbv m  
RT: 6.933 min Scan# 2115  
Delta R.T. -0.010 min  
Lab File: VL042632.D  
Acq: 16 Jun 2025 16:53

Tgt Ion: 91 Resp: 4123  
Ion Ratio Lower Upper  
91 100  
92 0.0 48.2 72.4#





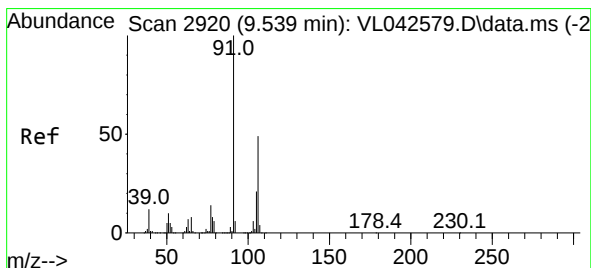
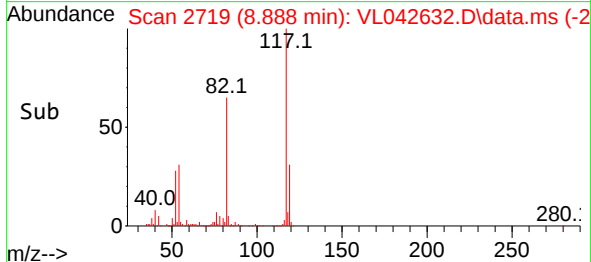
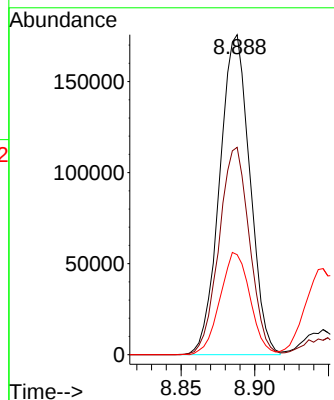
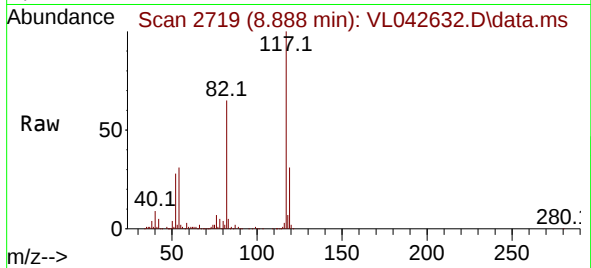
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.888 min Scan# 2115  
Delta R.T. 0.000 min  
Lab File: VL042632.D  
Acq: 16 Jun 2025 16:53

Instrument :  
MSVOA\_L  
ClientSampleId :  
115-SG2

Tgt Ion:117 Resp: 250604  
Ion Ratio Lower Upper  
117 100  
82 65.4 51.2 76.8  
119 31.6 26.3 39.5

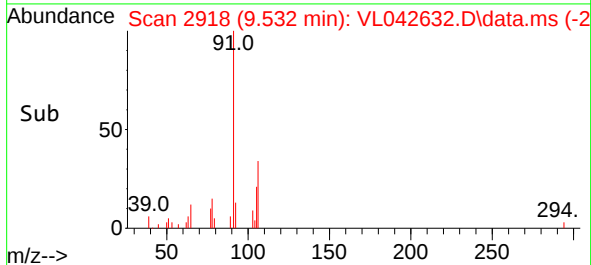
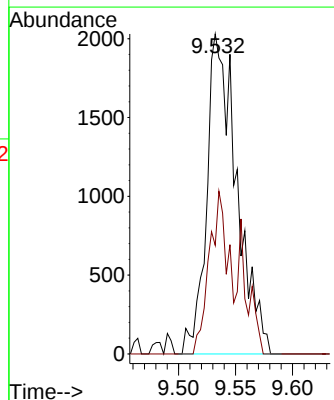
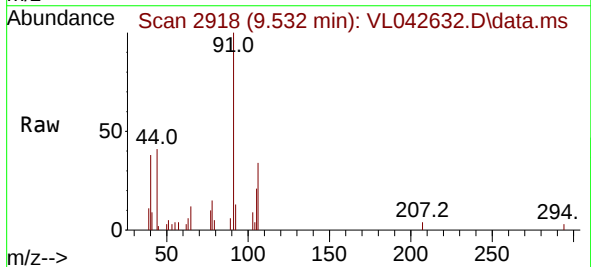
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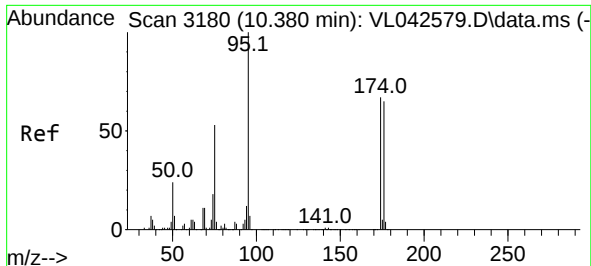
Reviewed By :Semsettin Yesilyurt 06/17/2025  
Supervised By :Mahesh Dadoda 06/17/2025



#59  
m/p-Xylene  
Concen: 0.111 ppbv m  
RT: 9.532 min Scan# 2918  
Delta R.T. -0.006 min  
Lab File: VL042632.D  
Acq: 16 Jun 2025 16:53

Tgt Ion: 91 Resp: 3722  
Ion Ratio Lower Upper  
91 100  
106 45.5 38.8 58.2





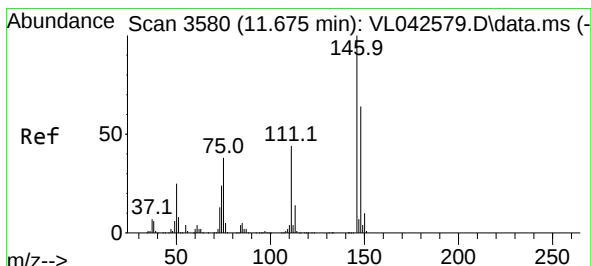
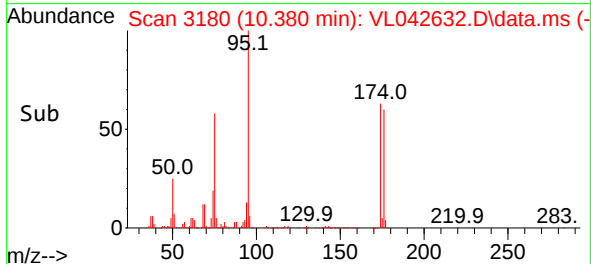
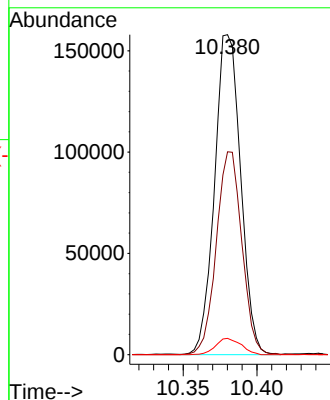
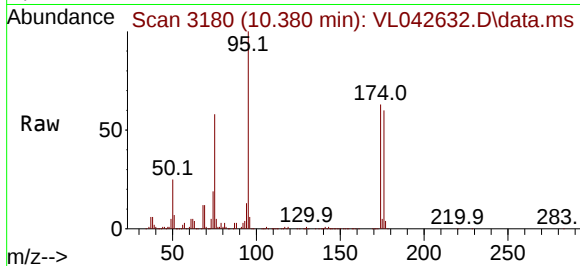
#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.380 ppbv  
RT: 10.380 min Scan# 3180  
Delta R.T. -0.000 min  
Lab File: VL042632.D  
Acq: 16 Jun 2025 16:53

Instrument :  
MSVOA\_L  
ClientSampleId :  
115-SG2

Tgt Ion: 95 Resp: 19500  
Ion Ratio Lower Upper  
95 100  
174 62.0 53.1 79.7  
175 5.0 4.2 6.2

Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 06/17/2025  
Supervised By :Mahesh Dadoda 06/17/2025



#76  
1,4-Dichlorobenzene  
Concen: 1.251 ppbv  
RT: 11.678 min Scan# 3581  
Delta R.T. 0.003 min  
Lab File: VL042632.D  
Acq: 16 Jun 2025 16:53

Tgt Ion:146 Resp: 29939  
Ion Ratio Lower Upper  
146 100  
111 45.2 21.6 64.8  
148 66.4 32.1 96.5

