

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL062624\  
 Data File : VL041354.D  
 Acq On : 26 Jun 2024 10:13  
 Operator : SY/MD  
 Sample : VSTDICC001  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC001

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 06/27/2024  
 Supervised By : Mahesh Dadoda 06/27/2024

Quant Time: Jun 26 10:49:40 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL062624AIR.M

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

QLast Update : Wed Jun 26 09:48:16 2024

Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.205  | 49   | 1079733  | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.664  | 114  | 2931450  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 11.481 | 117  | 2677200  | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.790 95 2003165 9.691 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 96.900%

Target Compounds

|                               |       |     |         |       |        | Qvalue |
|-------------------------------|-------|-----|---------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.739 | 85  | 209641  | 1.216 | ppbv   | 96     |
| 3) Chlorodifluoromethane      | 2.681 | 51  | 208960  | 1.225 | ppbv   | 99     |
| 4) Chloromethane              | 2.819 | 50  | 78102   | 1.216 | ppbv   | 98     |
| 5) Vinyl Chloride             | 2.928 | 62  | 78097   | 1.207 | ppbv   | 100    |
| 6) Bromomethane               | 3.128 | 94  | 24835   | 1.080 | ppbv   | 90     |
| 7) Chloroethane               | 3.202 | 64  | 29455   | 1.322 | ppbv   | 89     |
| 8) Dichlorotetrafluoroethane  | 2.864 | 85  | 200171  | 1.262 | ppbv   | 99     |
| 9) Propene                    | 2.703 | 41  | 70667   | 1.163 | ppbv   | 99     |
| 10) Heptane                   | 7.594 | 43  | 164221  | 1.140 | ppbv   | 99     |
| 11) Trichlorofluoromethane    | 3.571 | 101 | 197150  | 1.244 | ppbv   | 96     |
| 12) 1,1,2-Trichlorotrifluo... | 4.076 | 101 | 141297  | 1.262 | ppbv   | 98     |
| 13) Ethanol                   | 3.269 | 45  | 13347m  | 0.844 | ppbv   |        |
| 14) Bromoethene               | 3.378 | 108 | 52601   | 1.161 | ppbv # | 87     |
| 15) Acetone                   | 3.488 | 43  | 171403  | 1.390 | ppbv   | 96     |
| 16) 1,3-Butadiene             | 2.993 | 39  | 64660   | 1.043 | ppbv # | 77     |
| 17) tert-Butyl alcohol        | 3.899 | 59  | 114480  | 1.009 | ppbv   | 96     |
| 18) 1,1-Dichloroethene        | 3.893 | 96  | 58863   | 1.232 | ppbv   | 93     |
| 19) Isopropyl Alcohol         | 3.597 | 45  | 84942m  | 1.097 | ppbv   |        |
| 20) Methylene Chloride        | 3.944 | 84  | 59733   | 1.333 | ppbv   | 94     |
| 21) Allyl Chloride            | 4.005 | 41  | 88770   | 1.137 | ppbv   | 91     |
| 22) trans-1,2-Dichloroethene  | 4.459 | 96  | 57135   | 1.148 | ppbv   | 93     |
| 23) Vinyl Acetate             | 4.642 | 43  | 132191  | 1.048 | ppbv # | 97     |
| 24) 1,1-Dichloroethane        | 4.574 | 63  | 133991  | 1.208 | ppbv # | 96     |
| 25) Ethyl Acetate             | 5.221 | 43  | 293468  | 1.203 | ppbv   | 99     |
| 26) Hexane                    | 5.227 | 57  | 129091  | 1.177 | ppbv   | 93     |
| 27) Carbon Disulfide          | 4.137 | 76  | 149130  | 1.228 | ppbv # | 91     |
| 28) Methyl tert-Butyl Ether   | 4.607 | 73  | 92004   | 1.132 | ppbv   | 98     |
| 29) Chloroform                | 5.288 | 83  | 201295  | 1.196 | ppbv   | 90     |
| 30) Cyclohexane               | 6.613 | 84  | 101332  | 1.140 | ppbv   | 91     |
| 31) cis-1,2-Dichloroethene    | 5.092 | 61  | 121085  | 1.168 | ppbv   | 98     |
| 32) 1,1,1-Trichloroethane     | 6.015 | 97  | 189501  | 1.189 | ppbv   | 99     |
| 34) 2-Butanone                | 4.806 | 43  | 169152  | 1.204 | ppbv   | 98     |
| 35) Carbon Tetrachloride      | 6.507 | 117 | 189395  | 1.137 | ppbv   | 99     |
| 36) Benzene                   | 6.381 | 78  | 260568  | 1.147 | ppbv   | 97     |
| 37) 1,2-Dichloroethane        | 5.816 | 62  | 150065  | 1.133 | ppbv   | 98     |
| 38) Trichloroethene           | 7.301 | 130 | 105095m | 1.141 | ppbv   |        |
| 39) 1,2-Dichloropropane       | 7.086 | 63  | 98476   | 1.088 | ppbv   | 95     |
| 40) 1,4-Dioxane               | 7.327 | 88  | 32637m  | 0.985 | ppbv   |        |
| 41) Tetrahydrofuran           | 5.584 | 42  | 96506   | 1.056 | ppbv   | 96     |
| 42) Bromodichloromethane      | 7.259 | 83  | 205863  | 1.082 | ppbv   | 92     |
| 43) Methyl Methacrylate       | 7.494 | 69  | 95568m  | 1.104 | ppbv   |        |
| 44) 2,2,4-Trimethylpentane    | 7.340 | 57  | 449456  | 1.150 | ppbv   | 100    |
| 45) t-1,3-Dichloropropene     | 8.729 | 75  | 55700m  | 0.953 | ppbv   |        |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL062624\  
 Data File : VL041354.D  
 Acq On : 26 Jun 2024 10:13  
 Operator : SY/MD  
 Sample : VSTDICC001  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC001

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 06/27/2024  
 Supervised By :Mahesh Dadoda 06/27/2024

Quant Time: Jun 26 10:49:40 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL062624AIR.M

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

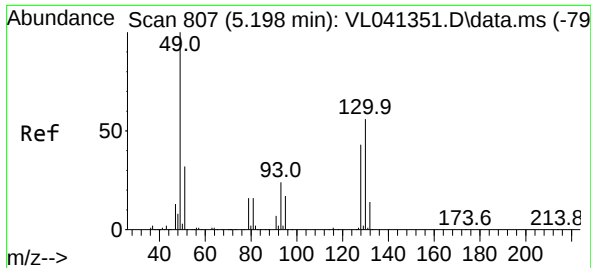
QLast Update : Wed Jun 26 09:48:16 2024

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.160  | 75   | 77498    | 1.031 | ppbv   | 92       |
| 47) 1,1,2-Trichloroethane     | 8.912  | 97   | 106962   | 1.131 | ppbv   | 94       |
| 48) Dibromochloromethane      | 9.722  | 129  | 169856   | 1.090 | ppbv   | 99       |
| 49) Bromoform                 | 12.413 | 173  | 136078m  | 1.084 | ppbv   |          |
| 50) 4-Methyl-2-Pentanone      | 8.208  | 43   | 268205   | 1.154 | ppbv   | 99       |
| 51) 2-Hexanone                | 9.584  | 43   | 187959   | 1.138 | ppbv # | 98       |
| 52) Tetrachloroethene         | 10.626 | 164  | 93787    | 1.132 | ppbv   | 94       |
| 53) Toluene                   | 9.233  | 91   | 286524   | 1.096 | ppbv   | 98       |
| 54) 1,2-Dibromoethane         | 10.021 | 107  | 136878   | 1.110 | ppbv   | 97       |
| 56) 1,1,1,2-Tetrachloroethane | 11.516 | 131  | 135253m  | 1.194 | ppbv   |          |
| 57) Chlorobenzene             | 11.539 | 112  | 233514   | 1.174 | ppbv # | 94       |
| 58) Ethyl Benzene             | 12.102 | 91   | 398770   | 1.162 | ppbv   | 97       |
| 59) m/p-Xylene                | 12.391 | 91   | 691650m  | 2.352 | ppbv   |          |
| 60) o-Xylene                  | 13.073 | 91   | 331475   | 1.183 | ppbv   | 99       |
| 61) Styrene                   | 12.912 | 104  | 151027   | 1.099 | ppbv   | 98       |
| 62) Isopropylbenzene          | 14.044 | 105  | 512092   | 1.208 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.063 | 83   | 237424m  | 1.191 | ppbv   |          |
| 64) n-propylbenzene           | 14.931 | 120  | 129653   | 1.187 | ppbv   | 91       |
| 65) tert-Butylbenzene         | 16.108 | 119  | 461952   | 1.226 | ppbv   | 97       |
| 66) Benzyl Chloride           | 16.349 | 91   | 24496m   | 0.988 | ppbv   |          |
| 67) sec-Butylbenzene          | 16.654 | 105  | 641703   | 1.205 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 17.014 | 119  | 527960   | 1.203 | ppbv   | 100      |
| 70) n-Butylbenzene            | 17.902 | 91   | 530043m  | 1.164 | ppbv   |          |
| 71) 2-Chlorotoluene           | 14.812 | 91   | 377532   | 1.164 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 15.207 | 105  | 377290   | 1.155 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 15.362 | 105  | 329198   | 1.161 | ppbv   | 92       |
| 74) 1,2,4-Trimethylbenzene    | 16.124 | 105  | 372859   | 1.163 | ppbv   | 93       |
| 75) 1,3-Dichlorobenzene       | 16.346 | 146  | 221285   | 1.176 | ppbv   | 96       |
| 76) 1,4-Dichlorobenzene       | 16.490 | 146  | 216216   | 1.150 | ppbv   | 96       |
| 77) 1,2-Dichlorobenzene       | 17.162 | 146  | 223264   | 1.185 | ppbv   | 97       |
| 78) Hexachloro-1,3-Butadiene  | 22.657 | 225  | 171714   | 1.112 | ppbv   | 98       |
| 79) Naphthalene               | 21.419 | 128  | 190823m  | 0.686 | ppbv   |          |
| 81) 1,2,4-Trichlorobenzene    | 21.172 | 180  | 116921m  | 0.754 | ppbv   |          |

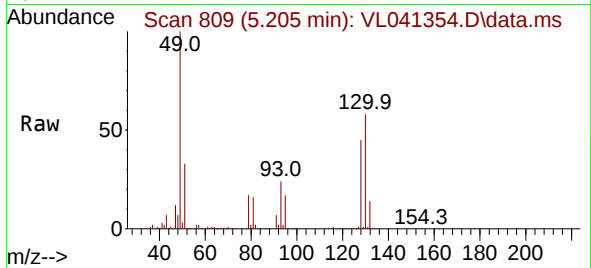
(#) = qualifier out of range (m) = manual integration (+) = signals summed





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.205 min Scan# 807  
Delta R.T. 0.004 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

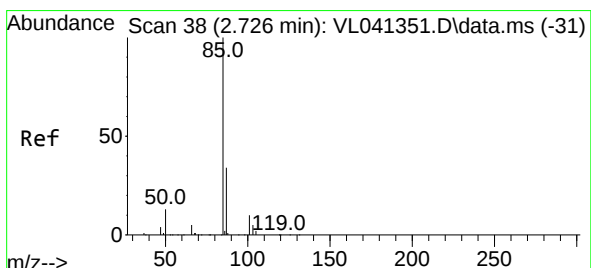
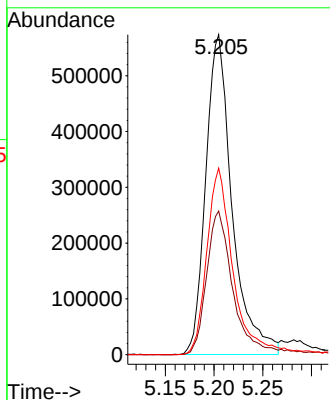
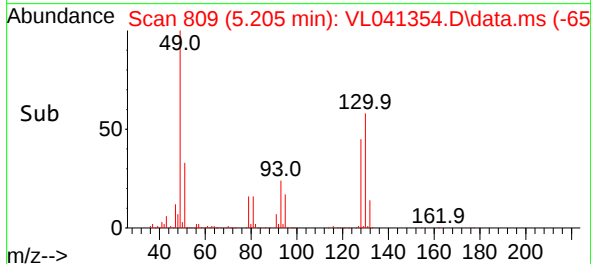
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001



Tgt Ion: 49 Resp: 107973  
Ion Ratio Lower Upper  
49 100  
128 46.0 22.8 68.3  
130 59.7 28.9 86.7

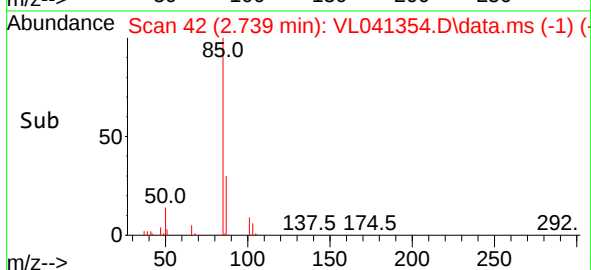
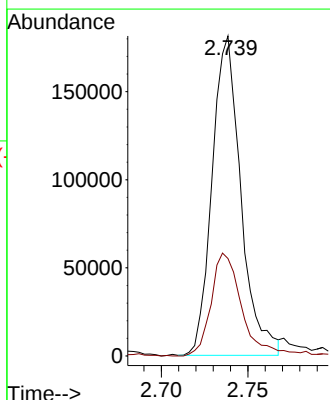
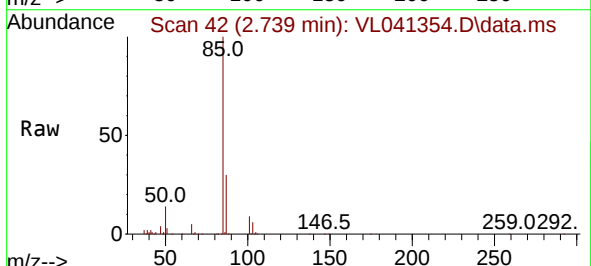
Manual Integrations  
APPROVED

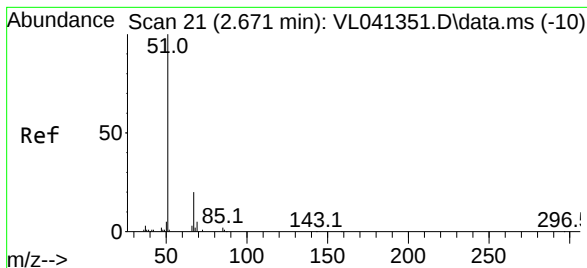
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024



#2  
Dichlorodifluoromethane  
Concen: 1.216 ppbv  
RT: 2.739 min Scan# 42  
Delta R.T. 0.010 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

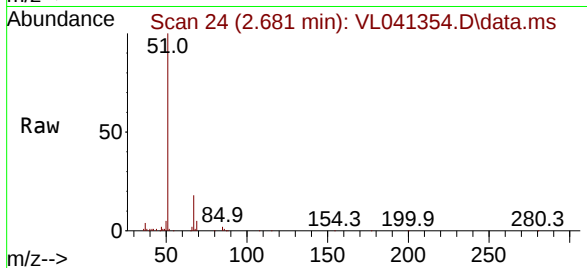
Tgt Ion: 85 Resp: 209641  
Ion Ratio Lower Upper  
85 100  
87 30.4 25.9 38.9





#3  
Chlorodifluoromethane  
Concen: 1.225 ppbv  
RT: 2.681 min Scan# 24  
Delta R.T. 0.006 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

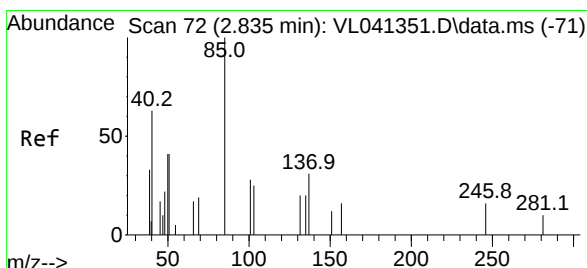
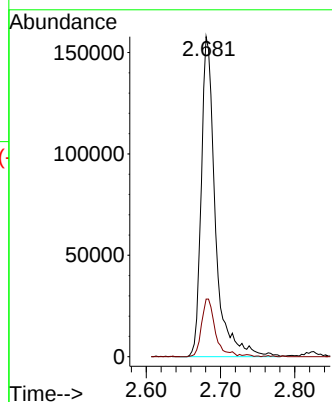
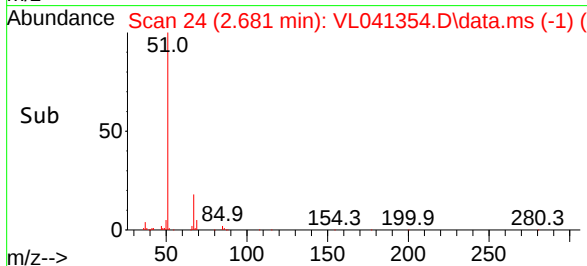
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



Tgt Ion: 51 Resp: 208960  
Ion Ratio Lower Upper  
51 100  
67 18.2 14.3 21.5

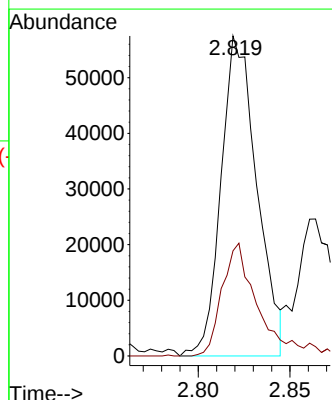
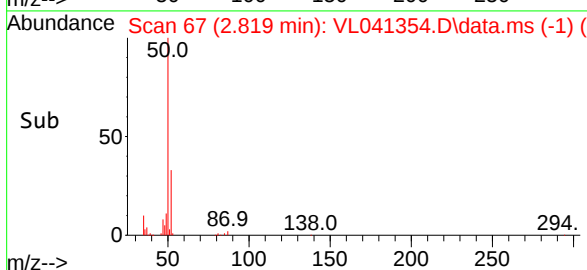
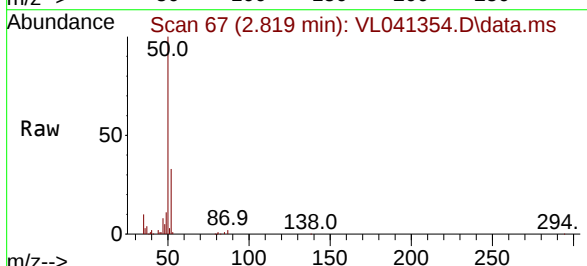
Manual Integrations  
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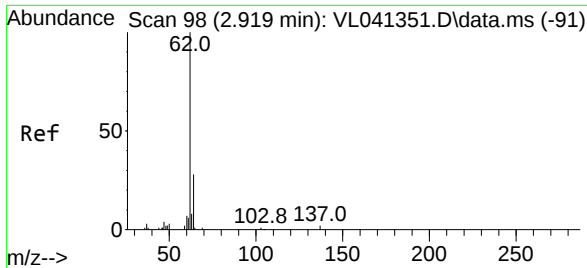
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024



#4  
Chloromethane  
Concen: 1.216 ppbv  
RT: 2.819 min Scan# 67  
Delta R.T. 0.003 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

Tgt Ion: 50 Resp: 78102  
Ion Ratio Lower Upper  
50 100  
52 33.0 25.6 38.4





#5  
 Vinyl Chloride  
 Concen: 1.207 ppbv  
 RT: 2.928 min Scan# 101  
 Delta R.T. 0.006 min  
 Lab File: VL041354.D  
 Acq: 26 Jun 2024 10:13

Instrument :

MSVOA\_L

ClientSampleId :

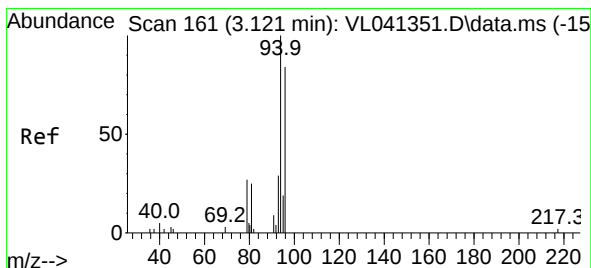
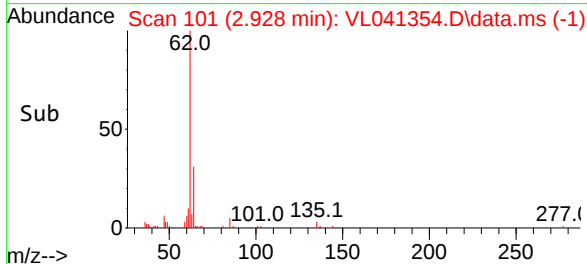
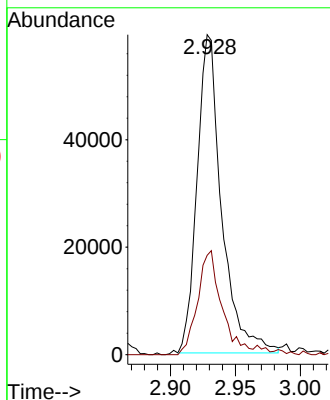
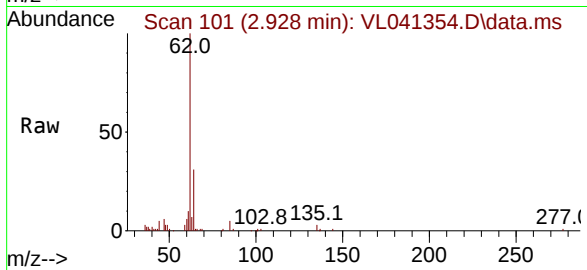
VSTDICC001

Tgt Ion: 62 Resp: 7809  
 Ion Ratio Lower Upper  
 62 100  
 64 31.2 25.0 37.6

Manual Integrations

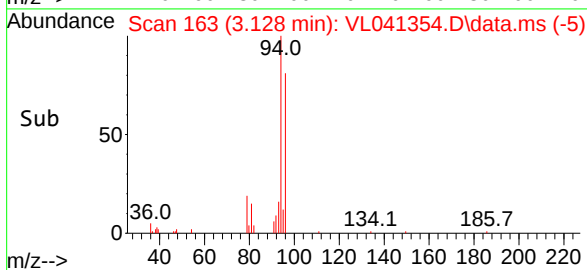
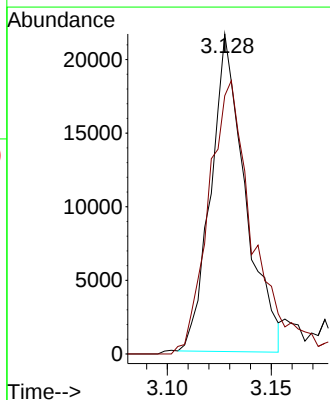
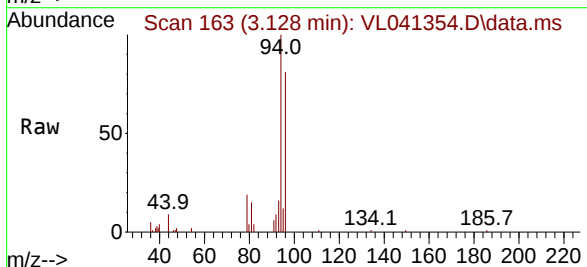
APPROVED

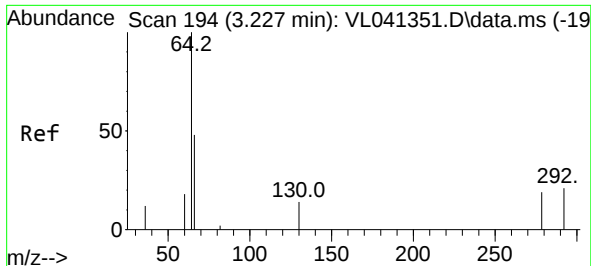
Reviewed By :Semsettin Yesilyurt 06/27/2024  
 Supervised By :Mahesh Dadoda 06/27/2024



#6  
 Bromomethane  
 Concen: 1.080 ppbv  
 RT: 3.128 min Scan# 163  
 Delta R.T. 0.006 min  
 Lab File: VL041354.D  
 Acq: 26 Jun 2024 10:13

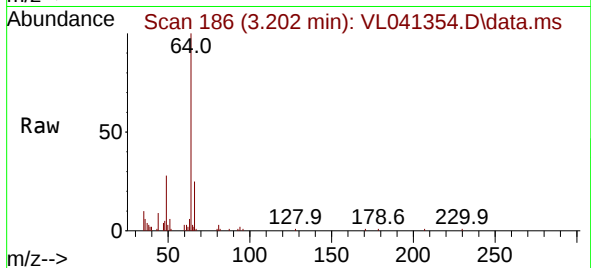
Tgt Ion: 94 Resp: 24835  
 Ion Ratio Lower Upper  
 94 100  
 96 79.1 71.0 106.4





#7  
Chloroethane  
Concen: 1.322 ppbv  
RT: 3.202 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

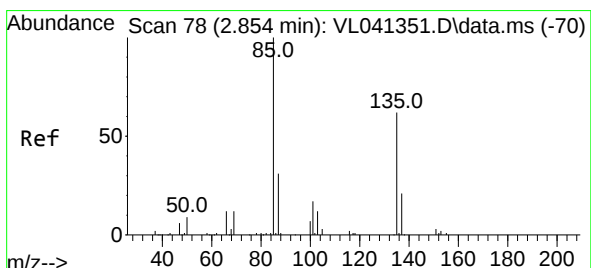
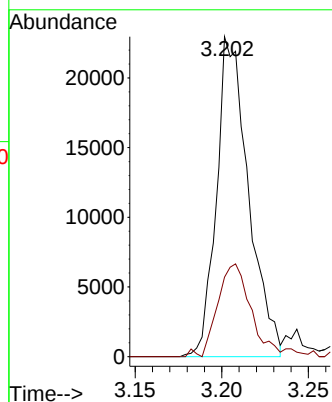
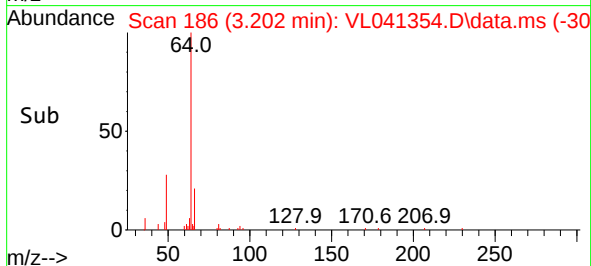
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001



Tgt Ion: 64 Resp: 2945  
Ion Ratio Lower Upper  
64 100  
66 24.8 24.6 36.8

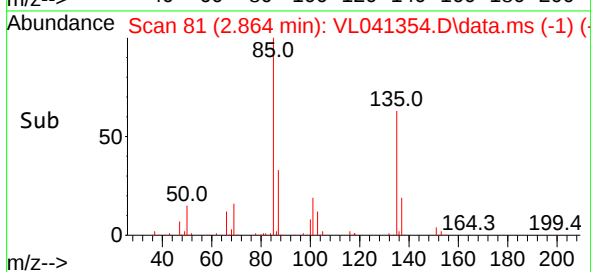
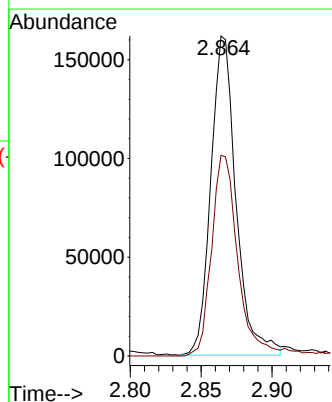
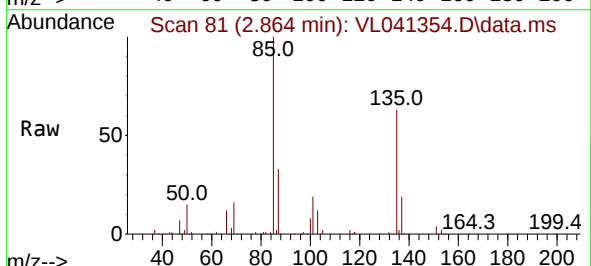
Manual Integrations  
APPROVED

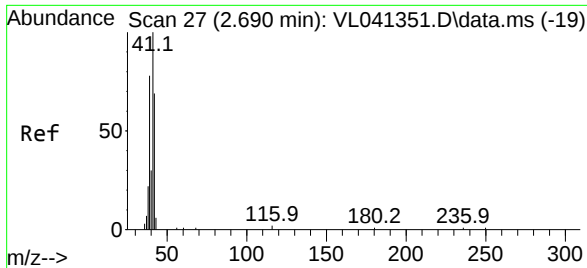
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024



#8  
Dichlorotetrafluoroethane  
Concen: 1.262 ppbv  
RT: 2.864 min Scan# 81  
Delta R.T. 0.006 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

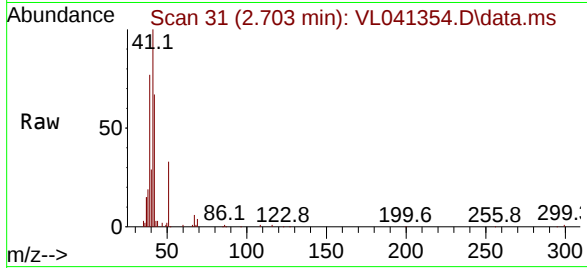
Tgt Ion: 85 Resp: 200171  
Ion Ratio Lower Upper  
85 100  
135 67.6 53.7 80.5





#9  
Propene  
Concen: 1.163 ppbv  
RT: 2.703 min Scan# 31  
Delta R.T. 0.010 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

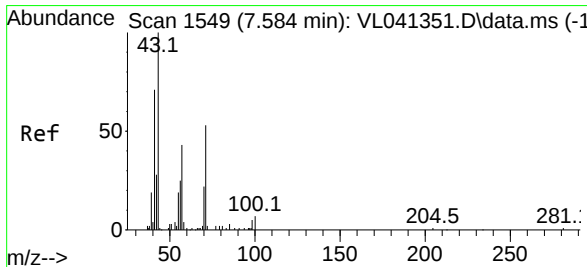
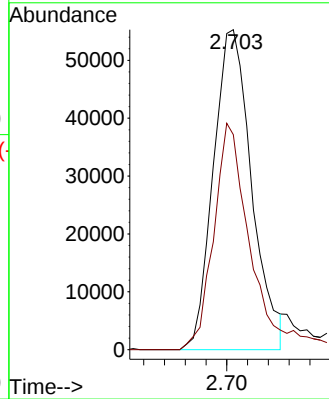
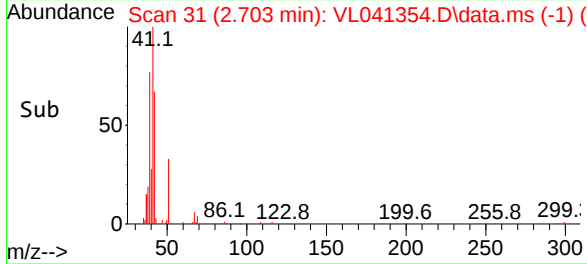
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001



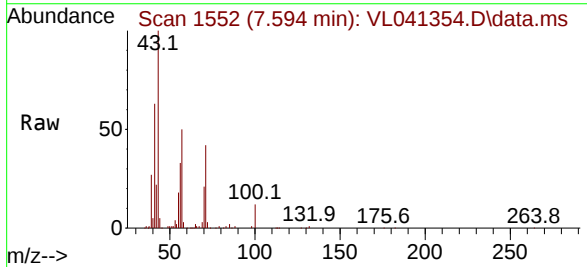
Tgt Ion: 41 Resp: 7066  
Ion Ratio Lower Upper  
41 100  
42 70.3 55.8 83.8

Manual Integrations  
APPROVED

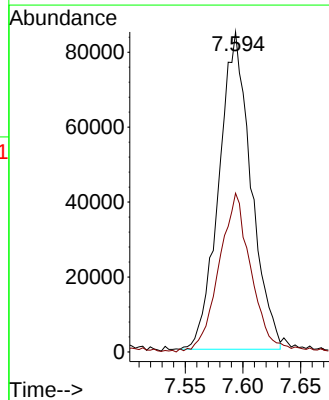
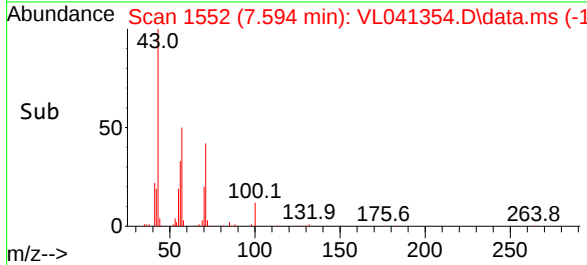
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024

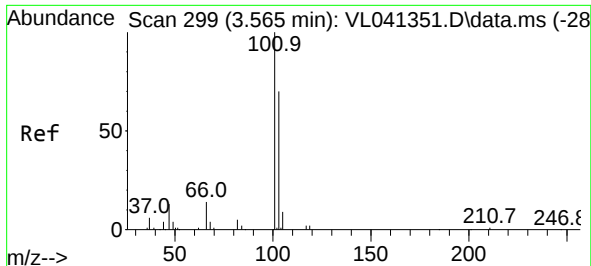


#10  
Heptane  
Concen: 1.140 ppbv  
RT: 7.594 min Scan# 1552  
Delta R.T. 0.000 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13



Tgt Ion: 43 Resp: 164221  
Ion Ratio Lower Upper  
43 100  
57 51.1 40.3 60.5





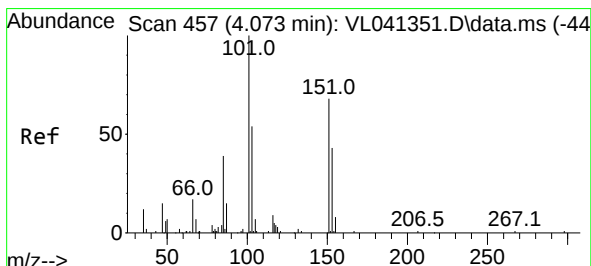
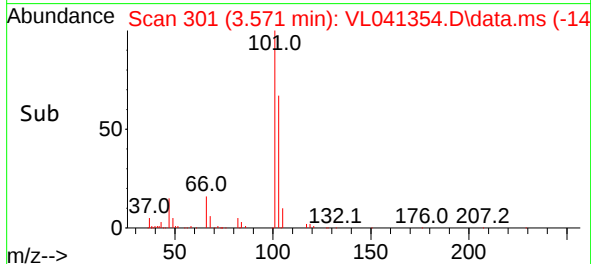
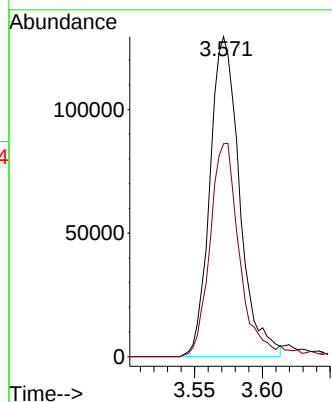
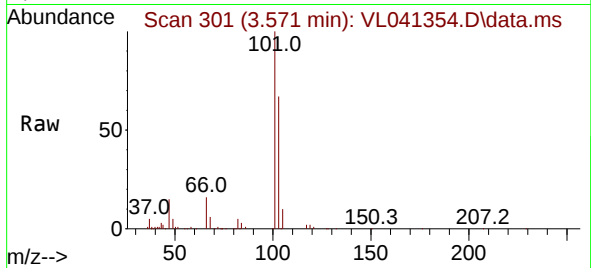
#11  
 Trichlorofluoromethane  
 Concen: 1.244 ppbv  
 RT: 3.571 min Scan# 301  
 Delta R.T. 0.003 min  
 Lab File: VL041354.D  
 Acq: 26 Jun 2024 10:13

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001

Tgt Ion:101 Resp: 197150  
 Ion Ratio Lower Upper  
 101 100  
 103 66.6 50.5 75.7

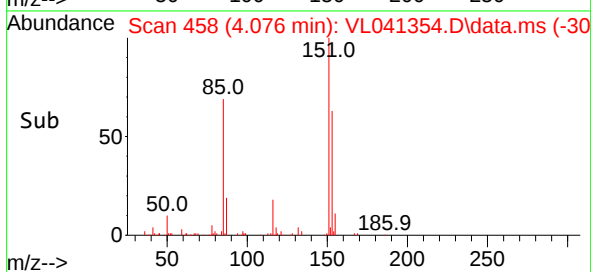
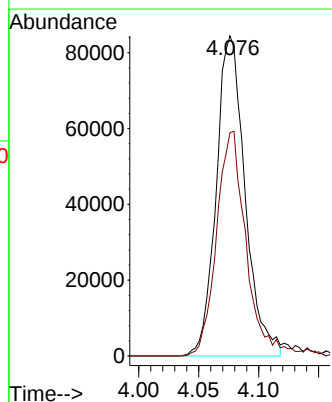
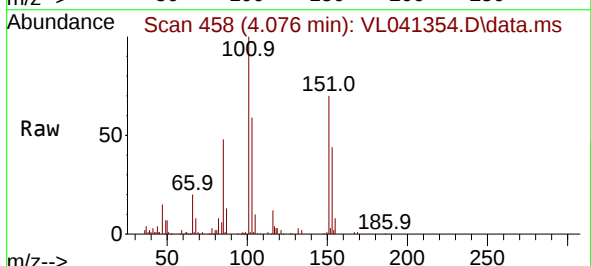
Manual Integrations  
 APPROVED

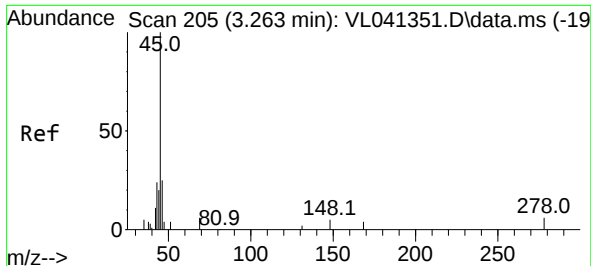
Reviewed By :Semsettin Yesilyurt 06/27/2024  
 Supervised By :Mahesh Dadoda 06/27/2024



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 1.262 ppbv  
 RT: 4.076 min Scan# 458  
 Delta R.T. 0.006 min  
 Lab File: VL041354.D  
 Acq: 26 Jun 2024 10:13

Tgt Ion:101 Resp: 141297  
 Ion Ratio Lower Upper  
 101 100  
 151 73.0 57.0 85.6





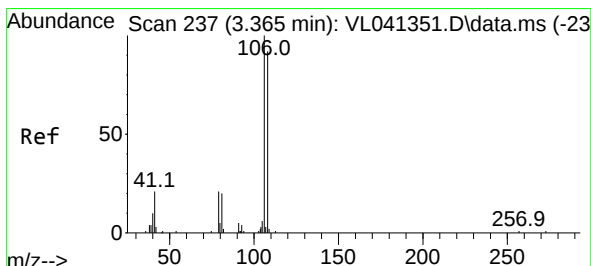
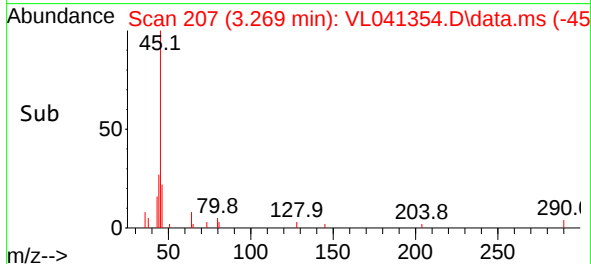
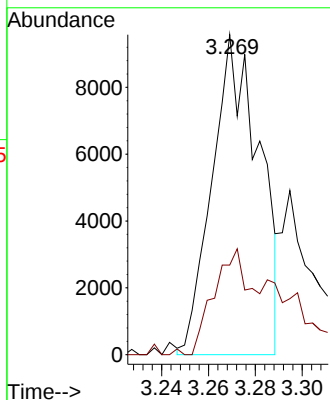
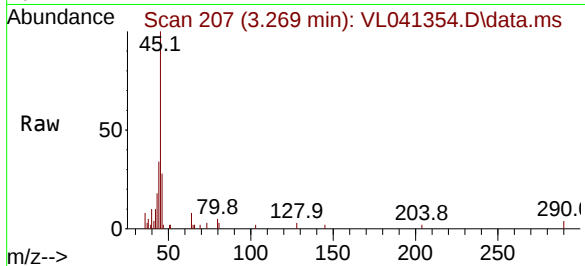
#13  
Ethanol  
Concen: 0.844 ppbv m  
RT: 3.269 min Scan# 205  
Delta R.T. 0.019 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

Tgt Ion: 45 Resp: 1334  
Ion Ratio Lower Upper  
45 100  
46 53.4 13.3 53.3

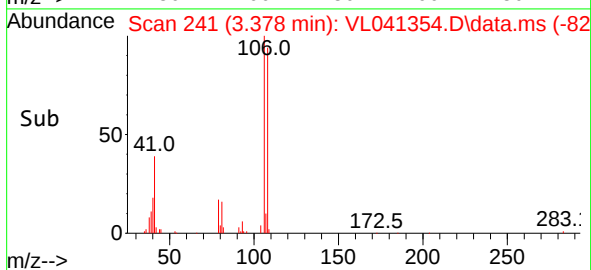
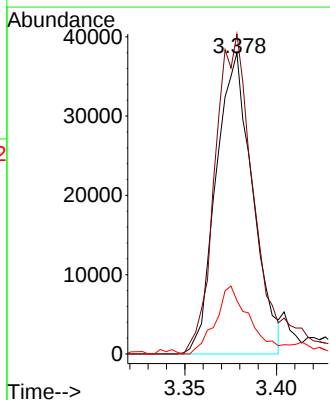
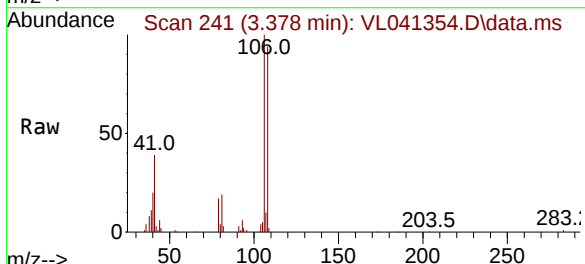
Manual Integrations  
APPROVED

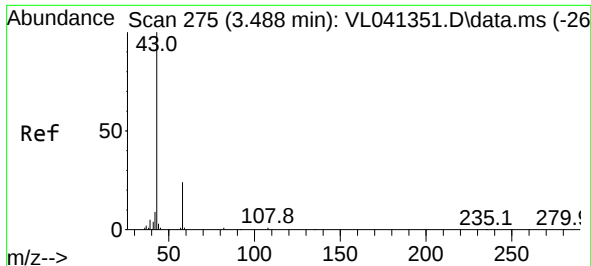
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024



#14  
Bromoethene  
Concen: 1.161 ppbv  
RT: 3.378 min Scan# 241  
Delta R.T. 0.010 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

Tgt Ion:108 Resp: 52601  
Ion Ratio Lower Upper  
108 100  
106 120.9 85.5 128.3  
79 26.1 16.3 24.5





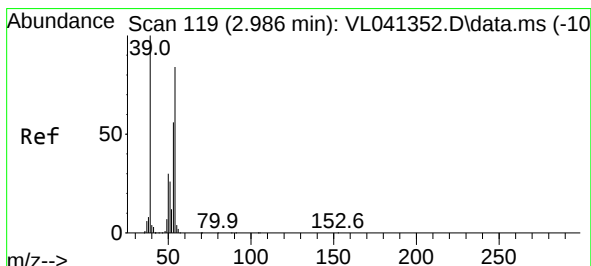
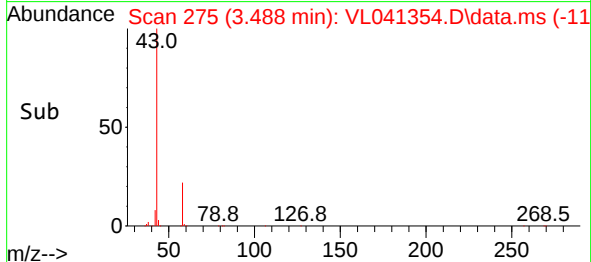
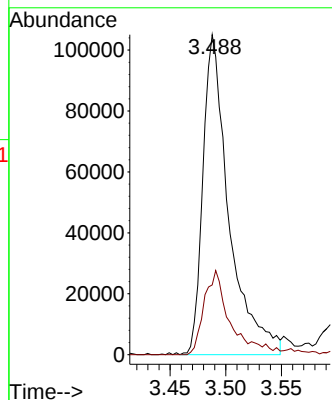
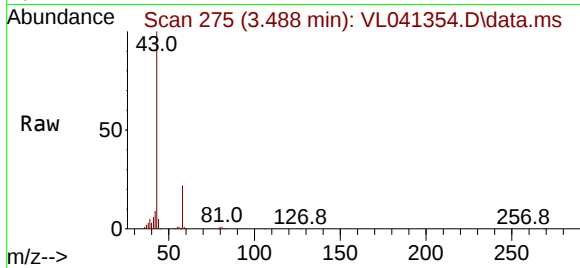
#15  
Acetone  
Concen: 1.390 ppbv  
RT: 3.488 min Scan# 21  
Delta R.T. 0.016 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

Tgt Ion: 43 Resp: 17140  
Ion Ratio Lower Upper  
43 100  
58 27.6 20.3 30.5

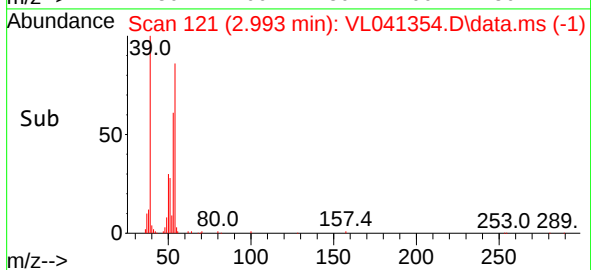
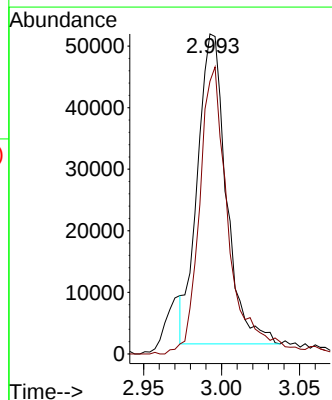
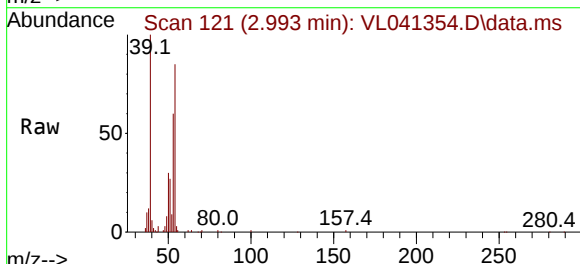
Manual Integrations  
APPROVED

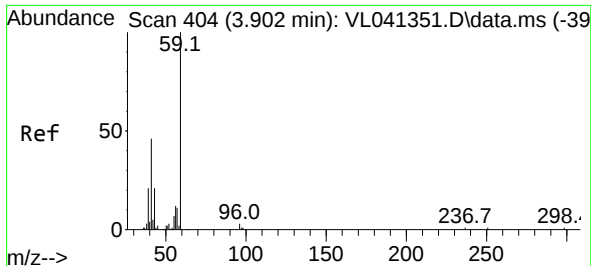
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024



#16  
1,3-Butadiene  
Concen: 1.043 ppbv  
RT: 2.993 min Scan# 121  
Delta R.T. 0.006 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

Tgt Ion: 39 Resp: 64660  
Ion Ratio Lower Upper  
39 100  
54 95.5 60.5 90.7#





#17

tert-Butyl alcohol

Concen: 1.009 ppbv

RT: 3.899 min Scan# 40

Delta R.T. 0.013 min

Lab File: VL041354.D

Acq: 26 Jun 2024 10:13

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC001

Tgt Ion: 59 Resp: 114480

Ion Ratio Lower Upper

59 100

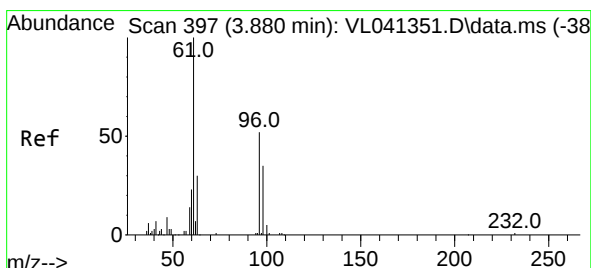
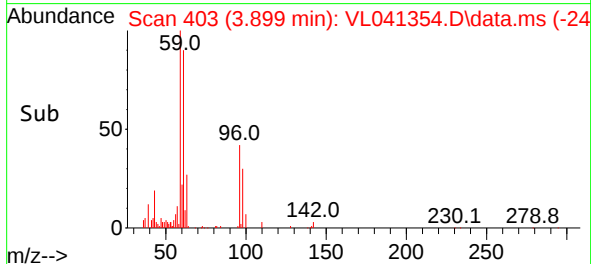
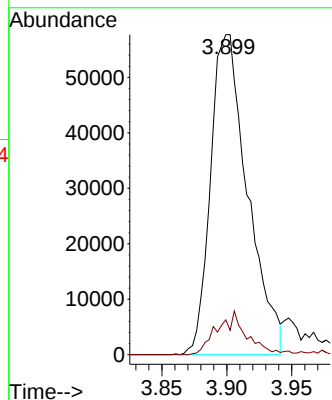
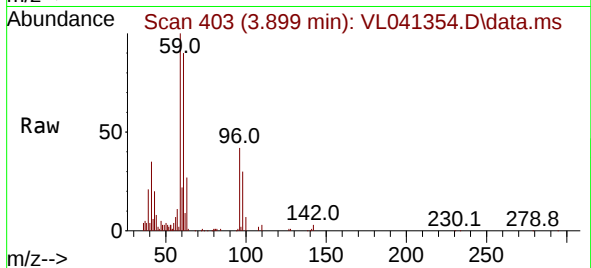
57 11.9 8.4 12.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/27/2024

Supervised By :Mahesh Dadoda 06/27/2024



#18

1,1-Dichloroethene

Concen: 1.232 ppbv

RT: 3.893 min Scan# 401

Delta R.T. 0.006 min

Lab File: VL041354.D

Acq: 26 Jun 2024 10:13

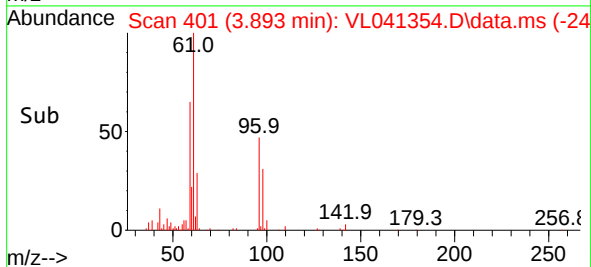
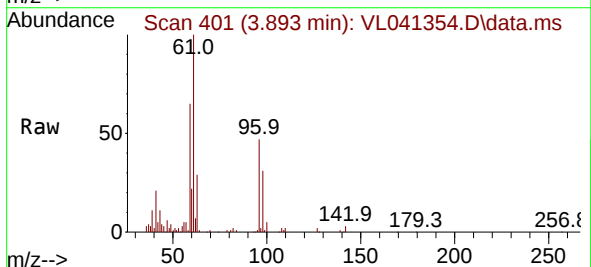
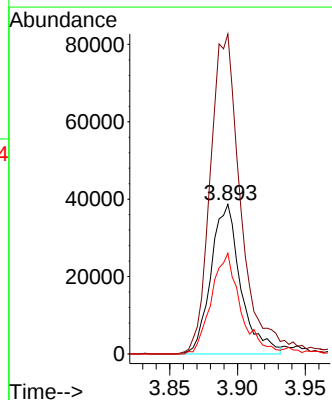
Tgt Ion: 96 Resp: 58863

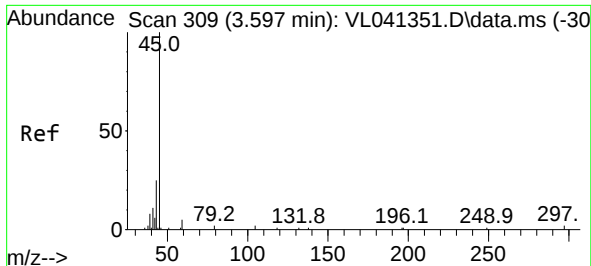
Ion Ratio Lower Upper

96 100

61 213.4 160.3 240.5

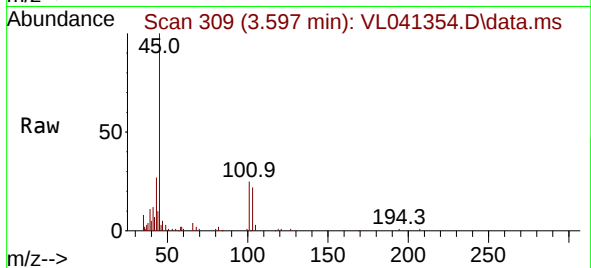
98 67.3 51.6 77.4





#19  
Isopropyl Alcohol  
Concen: 1.097 ppbv m  
RT: 3.597 min Scan# 309  
Delta R.T. 0.013 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

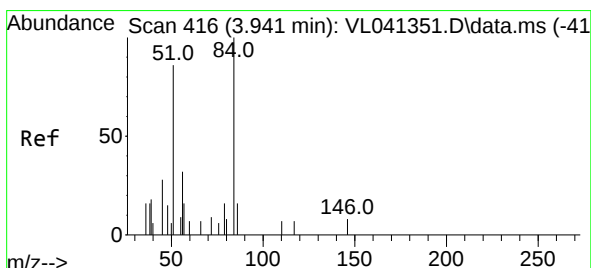
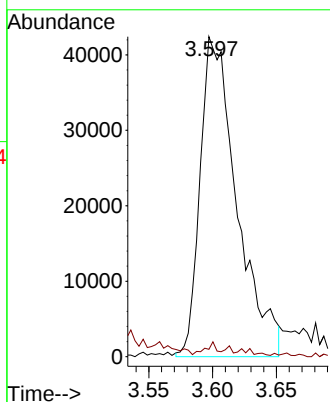
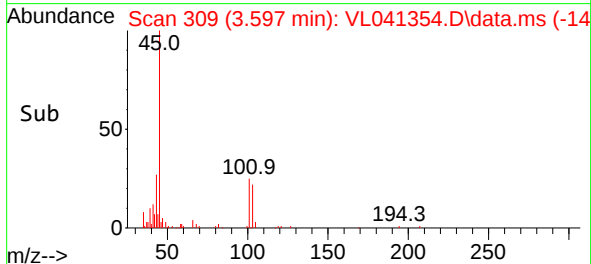
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



Tgt Ion: 45 Resp: 8494  
Ion Ratio Lower Upper  
45 100  
58 0.0 1.6 2.4

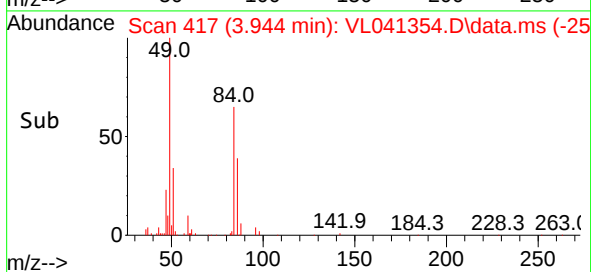
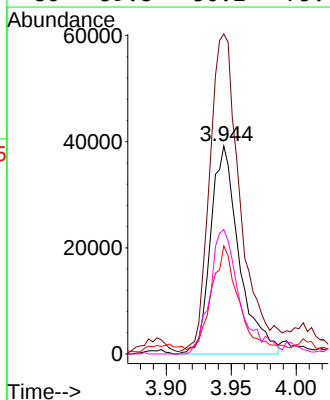
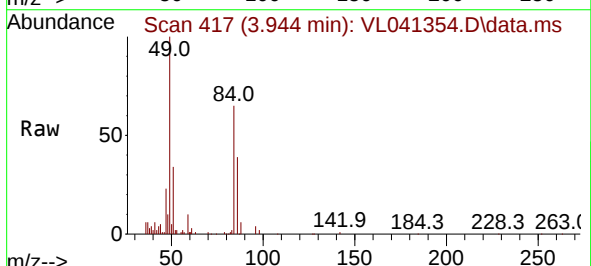
Manual Integrations  
APPROVED

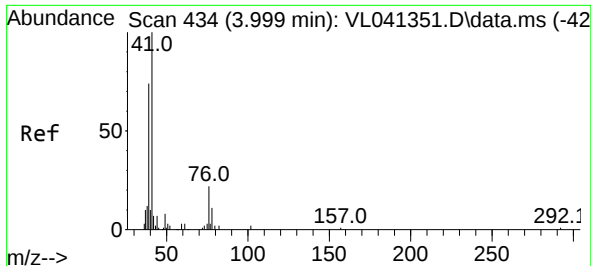
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024



#20  
Methylene Chloride  
Concen: 1.333 ppbv  
RT: 3.944 min Scan# 417  
Delta R.T. 0.006 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

Tgt Ion: 84 Resp: 59733  
Ion Ratio Lower Upper  
84 100  
49 152.7 131.8 197.6  
51 48.5 39.6 59.4  
86 59.8 50.2 75.4





#21

Allyl Chloride

Concen: 1.137 ppbv

RT: 4.005 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL041354.D

Acq: 26 Jun 2024 10:13

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC001

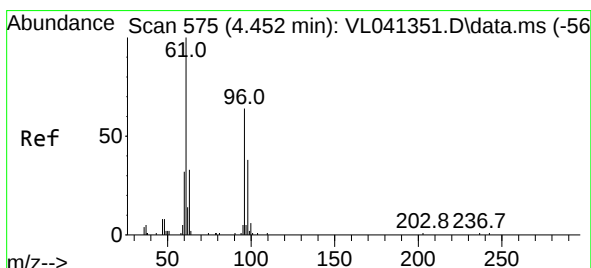
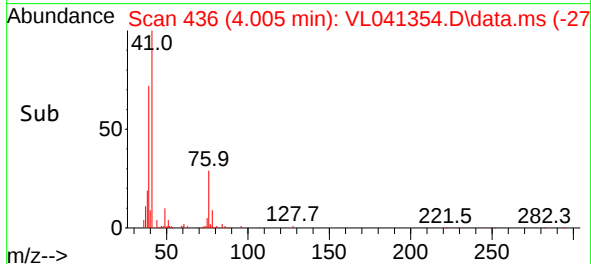
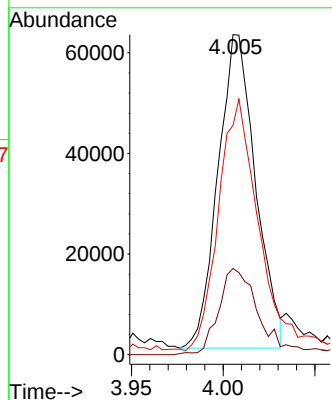
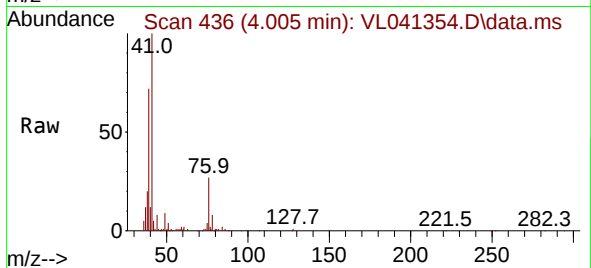
Tgt Ion: 41 Resp: 88770

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 41  | 100   |       |       |
| 76  | 31.0  | 23.3  | 34.9  |
| 39  | 92.6  | 66.0  | 99.0  |

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024



#22

trans-1,2-Dichloroethene

Concen: 1.148 ppbv

RT: 4.459 min Scan# 577

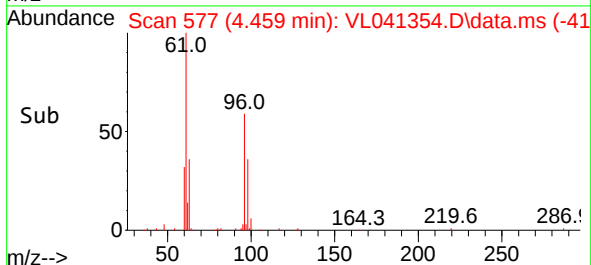
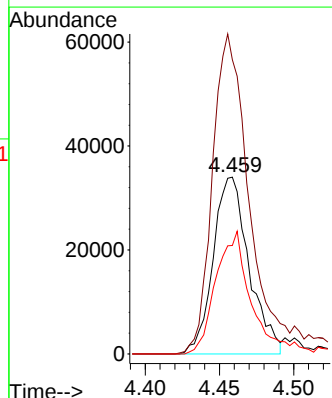
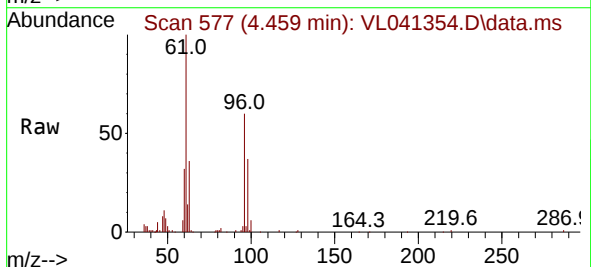
Delta R.T. 0.006 min

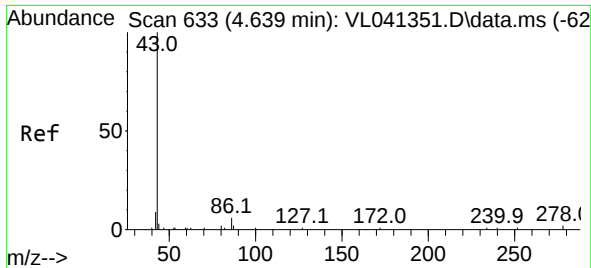
Lab File: VL041354.D

Acq: 26 Jun 2024 10:13

Tgt Ion: 96 Resp: 57135

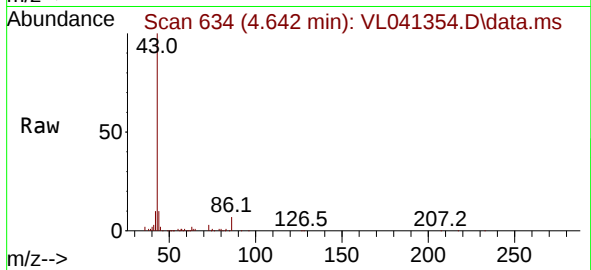
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 165.8 | 142.0 | 213.0 |
| 98  | 61.4  | 52.2  | 78.2  |





#23  
 Vinyl Acetate  
 Concen: 1.048 ppbv  
 RT: 4.642 min Scan# 613  
 Delta R.T. 0.006 min  
 Lab File: VL041354.D  
 Acq: 26 Jun 2024 10:13

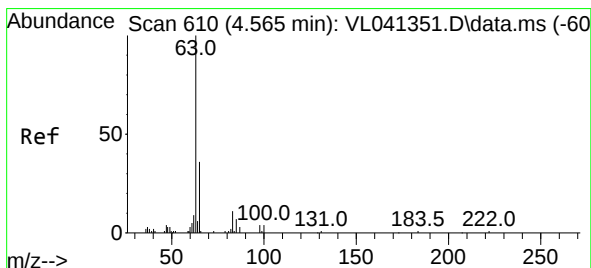
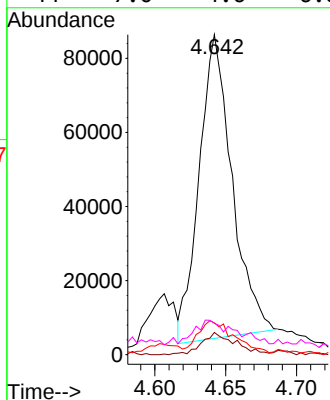
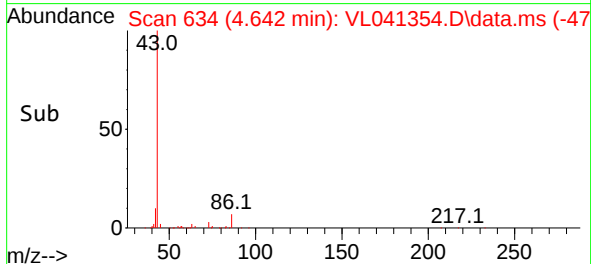
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001



Tgt Ion: 43 Resp: 132191  
 Ion Ratio Lower Upper  
 43 100  
 86 7.1 5.0 7.4  
 42 9.0 7.9 11.9  
 44 7.0 4.6 6.8#

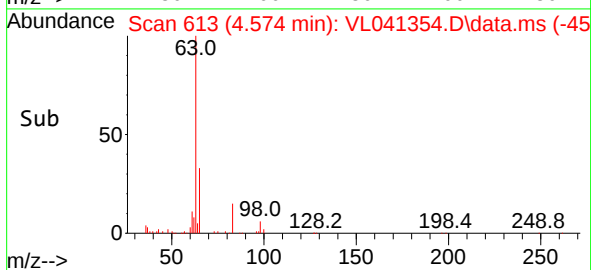
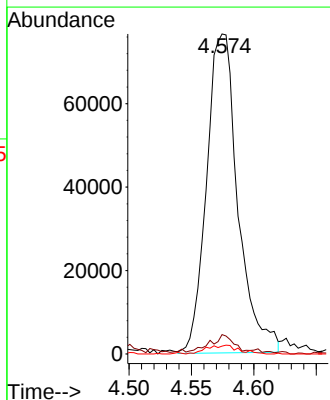
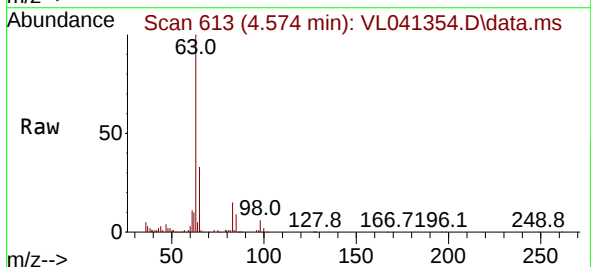
Manual Integrations  
 APPROVED

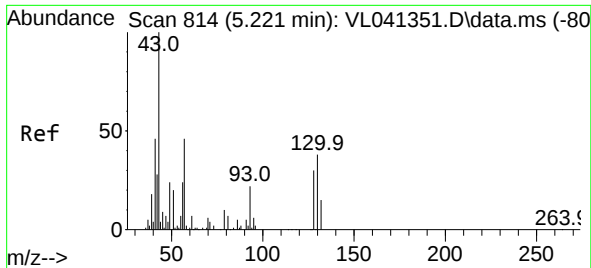
Reviewed By :Semsettin Yesilyurt 06/27/2024  
 Supervised By :Mahesh Dadoda 06/27/2024



#24  
 1,1-Dichloroethane  
 Concen: 1.208 ppbv  
 RT: 4.574 min Scan# 613  
 Delta R.T. 0.003 min  
 Lab File: VL041354.D  
 Acq: 26 Jun 2024 10:13

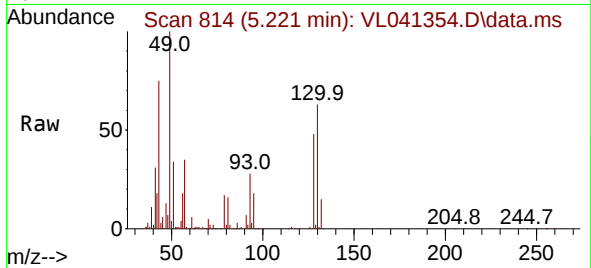
Tgt Ion: 63 Resp: 133991  
 Ion Ratio Lower Upper  
 63 100  
 98 5.5 1.8 5.4#  
 100 2.2 1.1 3.3





#25  
Ethyl Acetate  
Concen: 1.203 ppbv  
RT: 5.221 min Scan# 814  
Delta R.T. 0.006 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

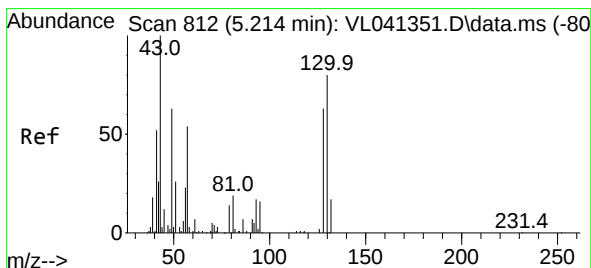
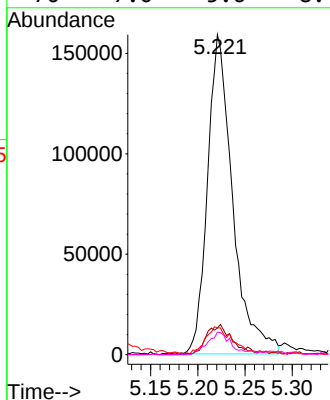
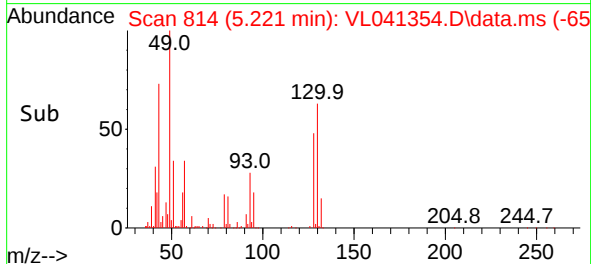
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001



Tgt Ion: 43 Resp: 293468  
Ion Ratio Lower Upper  
43 100  
45 10.5 8.3 12.5  
61 10.2 7.7 11.5  
70 7.0 5.6 8.4

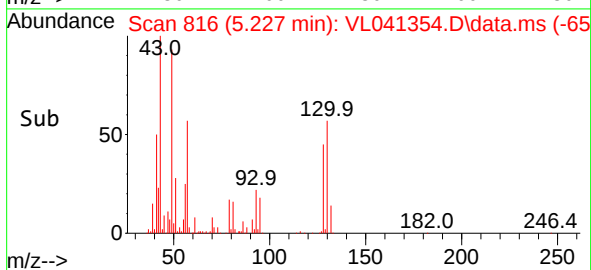
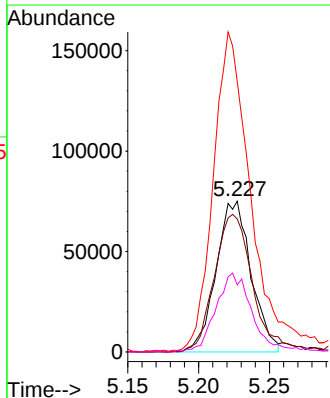
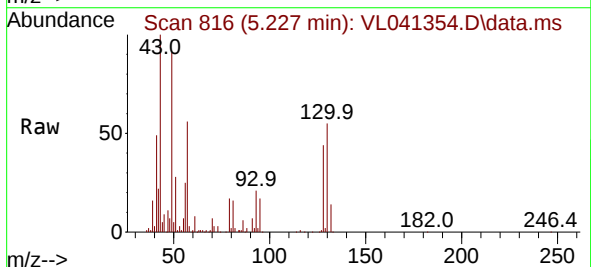
Manual Integrations  
APPROVED

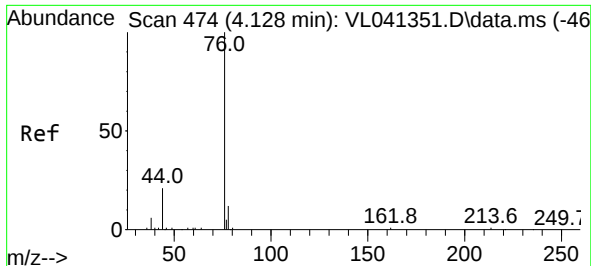
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024



#26  
Hexane  
Concen: 1.177 ppbv  
RT: 5.227 min Scan# 816  
Delta R.T. 0.006 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

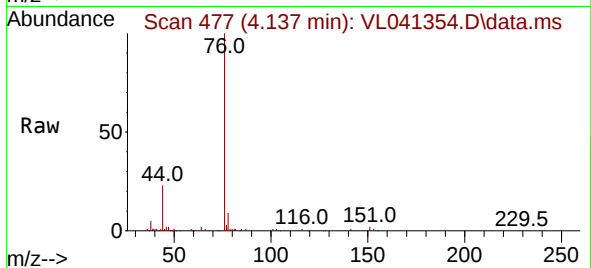
Tgt Ion: 57 Resp: 129091  
Ion Ratio Lower Upper  
57 100  
41 101.0 73.7 110.5  
43 237.6 182.2 273.2  
56 55.4 41.8 62.6





#27  
Carbon Disulfide  
Concen: 1.228 ppbv  
RT: 4.137 min Scan# 41  
Delta R.T. 0.006 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

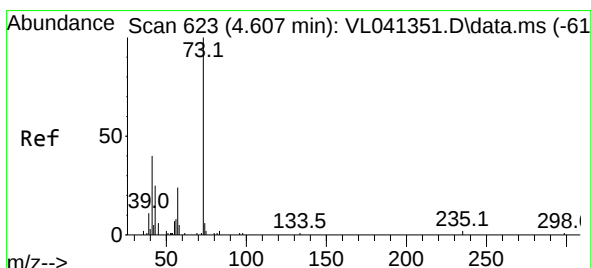
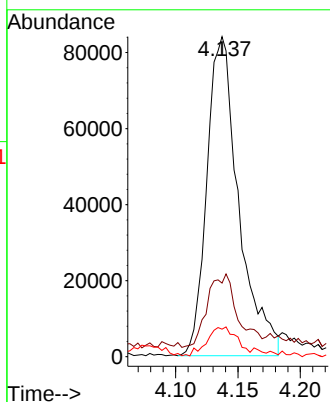
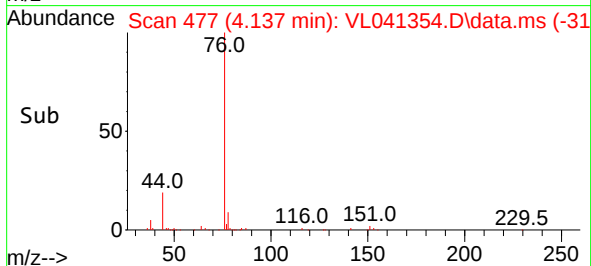
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



Tgt Ion: 76 Resp: 149130  
Ion Ratio Lower Upper  
76 100  
44 27.3 17.4 26.2  
78 10.6 7.3 10.9

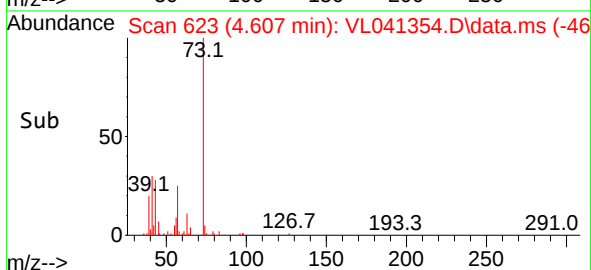
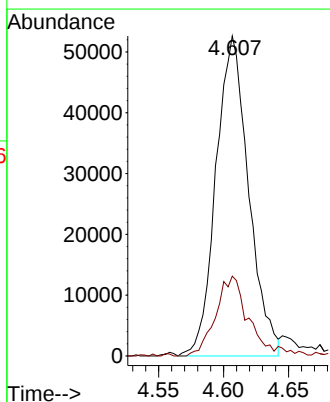
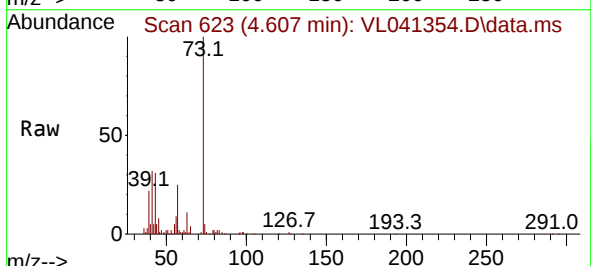
Manual Integrations  
APPROVED

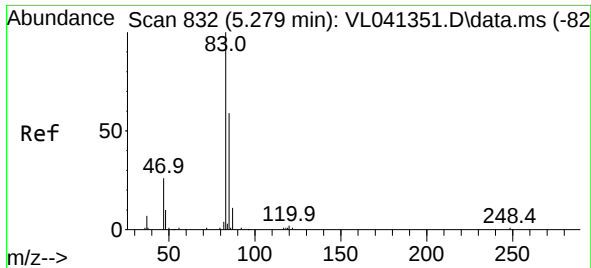
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024



#28  
Methyl tert-Butyl Ether  
Concen: 1.132 ppbv  
RT: 4.607 min Scan# 623  
Delta R.T. 0.013 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

Tgt Ion: 73 Resp: 92004  
Ion Ratio Lower Upper  
73 100  
57 25.7 19.9 29.9





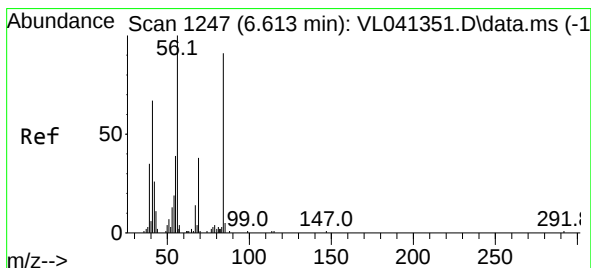
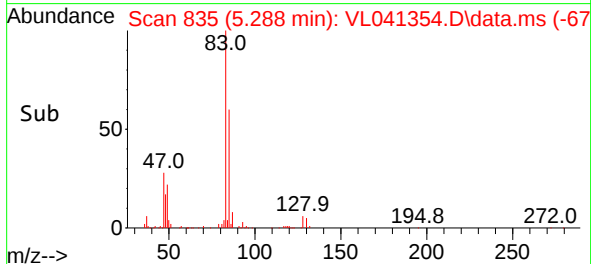
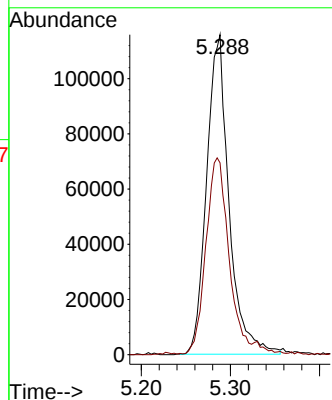
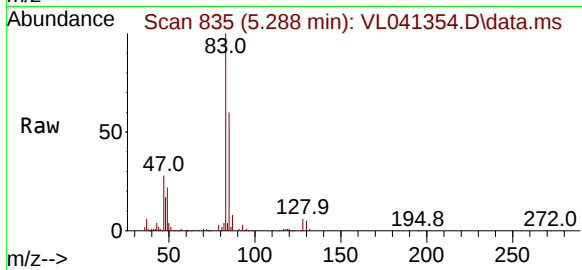
#29  
Chloroform  
Concen: 1.196 ppbv  
RT: 5.288 min Scan# 81  
Delta R.T. 0.003 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

Tgt Ion: 83 Resp: 20129  
Ion Ratio Lower Upper  
83 100  
85 59.7 54.2 81.4

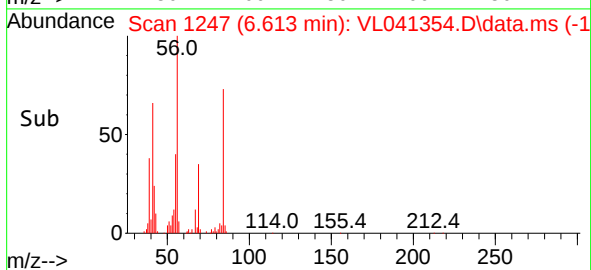
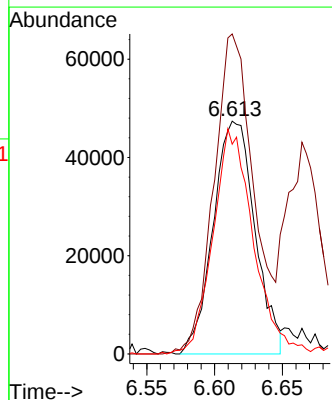
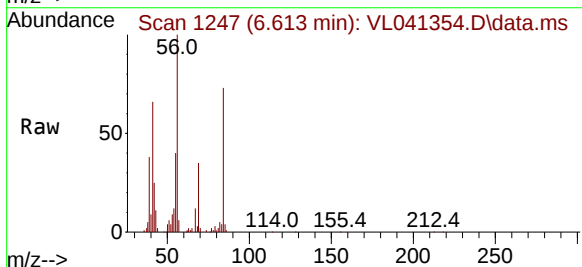
Manual Integrations  
APPROVED

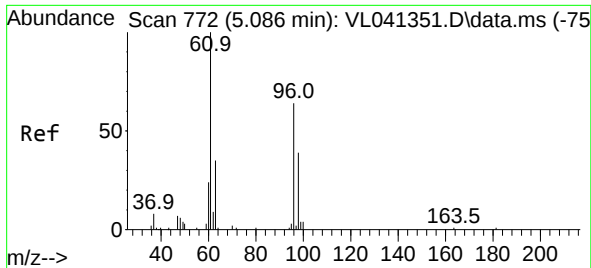
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024



#30  
Cyclohexane  
Concen: 1.140 ppbv  
RT: 6.613 min Scan# 1247  
Delta R.T. 0.000 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

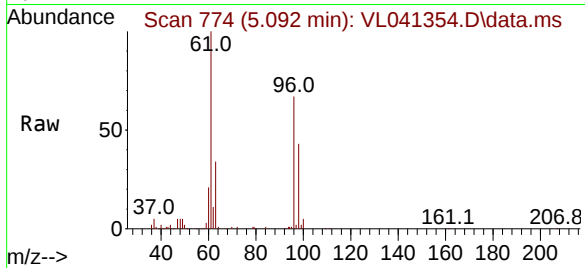
Tgt Ion: 84 Resp: 101332  
Ion Ratio Lower Upper  
84 100  
56 125.2 112.4 168.6  
41 94.9 72.7 109.1





#31  
cis-1,2-Dichloroethene  
Concen: 1.168 ppbv  
RT: 5.092 min Scan# 71  
Delta R.T. 0.003 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

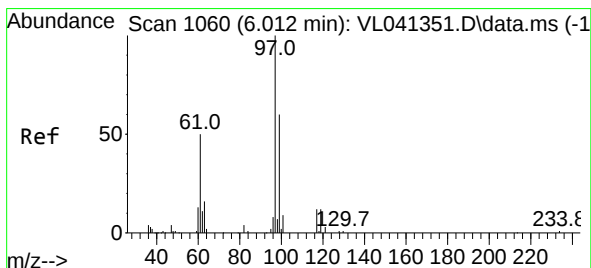
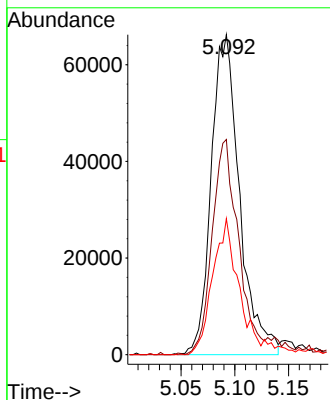
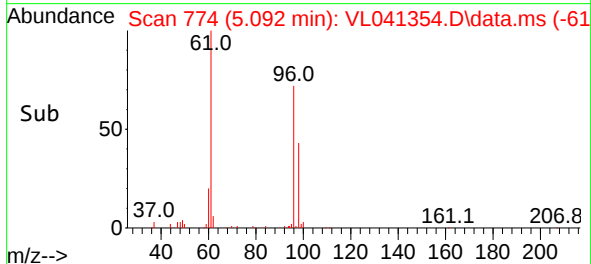
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



Tgt Ion: 61 Resp: 121085  
Ion Ratio Lower Upper  
61 100  
96 66.7 52.6 79.0  
98 42.5 32.3 48.5

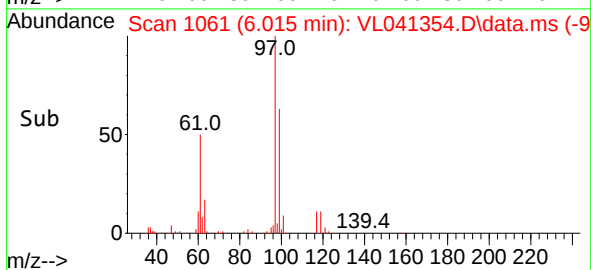
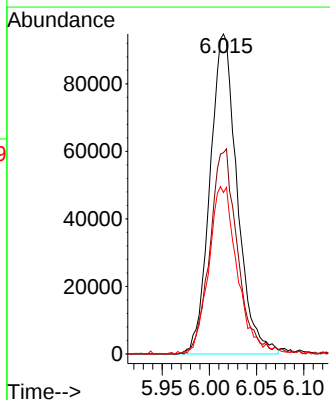
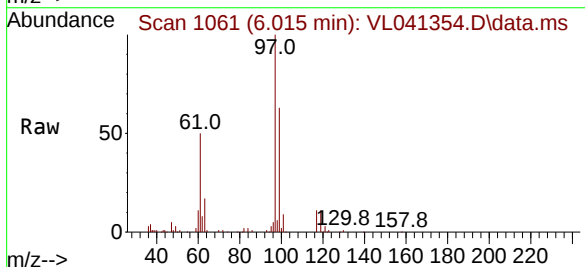
Manual Integrations  
APPROVED

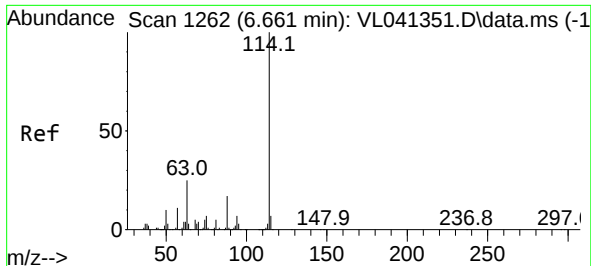
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024



#32  
1,1,1-Trichloroethane  
Concen: 1.189 ppbv  
RT: 6.015 min Scan# 1061  
Delta R.T. 0.000 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

Tgt Ion: 97 Resp: 189501  
Ion Ratio Lower Upper  
97 100  
99 65.4 52.0 78.0  
61 55.7 43.0 64.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.664 min Scan# 1263

Delta R.T. -0.003 min

Lab File: VL041354.D

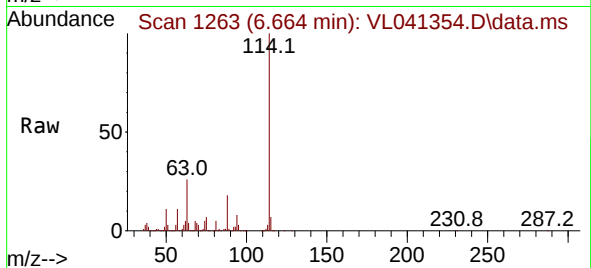
Acq: 26 Jun 2024 10:13

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC001



Tgt Ion:114 Resp: 2931450

Ion Ratio Lower Upper

114 100

63 25.6 20.6 31.0

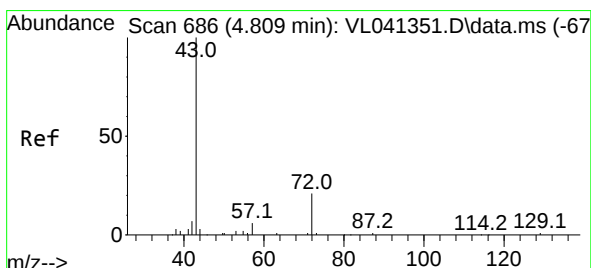
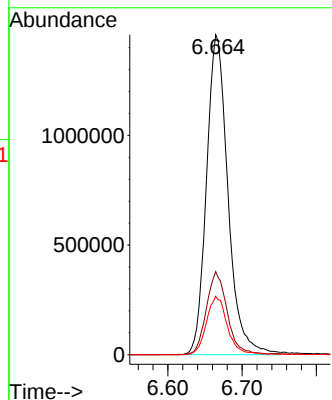
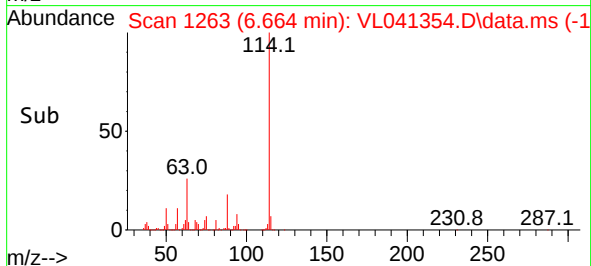
88 17.9 14.6 21.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/27/2024

Supervised By :Mahesh Dadoda 06/27/2024



#34

2-Butanone

Concen: 1.204 ppbv

RT: 4.806 min Scan# 685

Delta R.T. 0.010 min

Lab File: VL041354.D

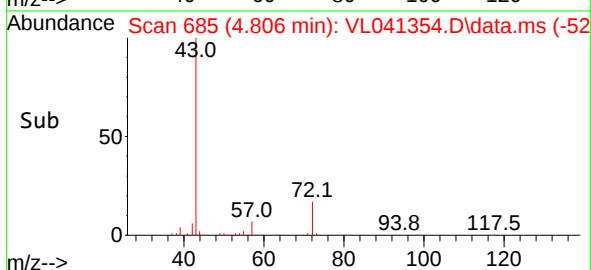
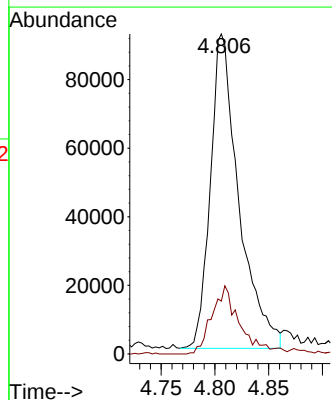
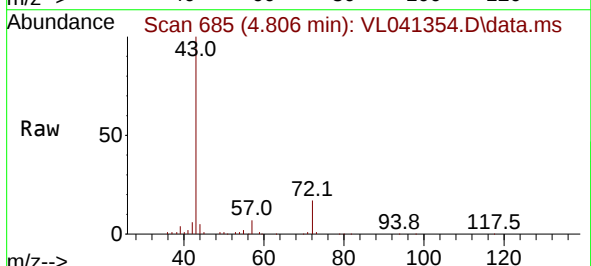
Acq: 26 Jun 2024 10:13

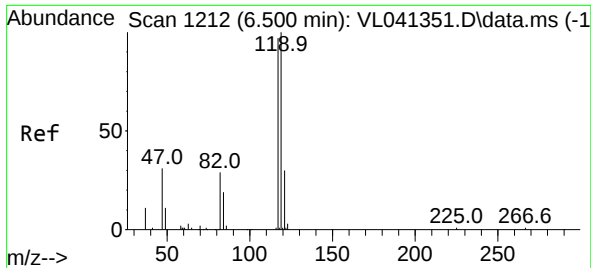
Tgt Ion: 43 Resp: 169152

Ion Ratio Lower Upper

43 100

72 22.3 17.2 25.8





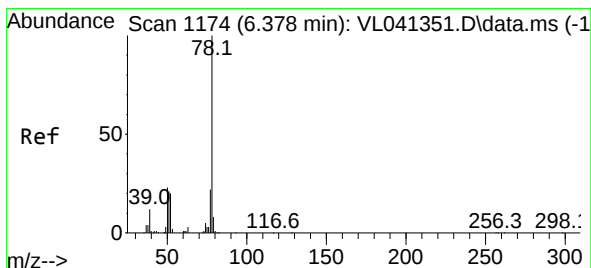
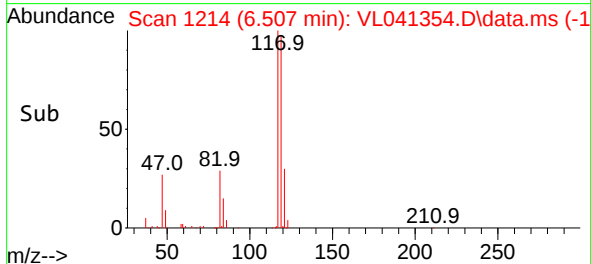
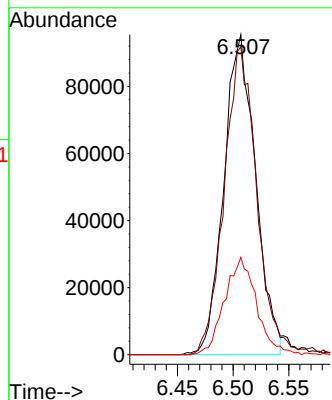
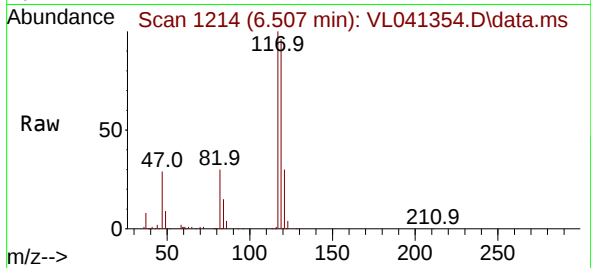
#35  
Carbon Tetrachloride  
Concen: 1.137 ppbv  
RT: 6.507 min Scan# 1175  
Delta R.T. 0.000 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

Tgt Ion: 117 Resp: 18939  
Ion Ratio Lower Upper  
117 100  
119 96.2 77.2 115.8  
121 30.4 25.2 37.8

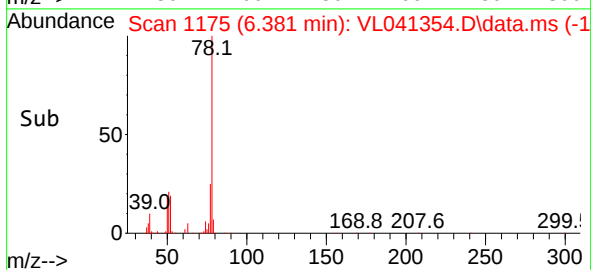
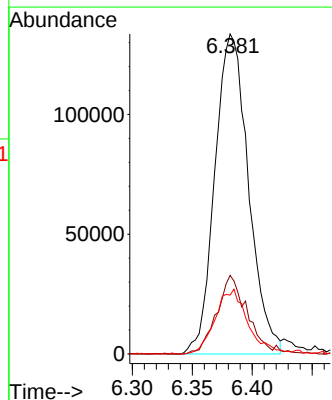
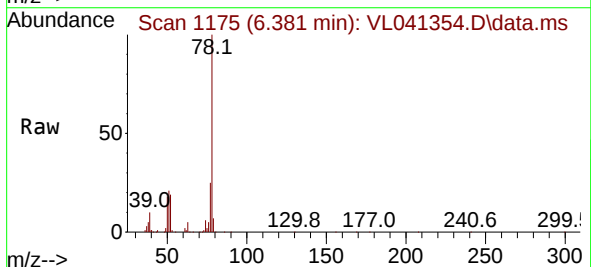
Manual Integrations  
APPROVED

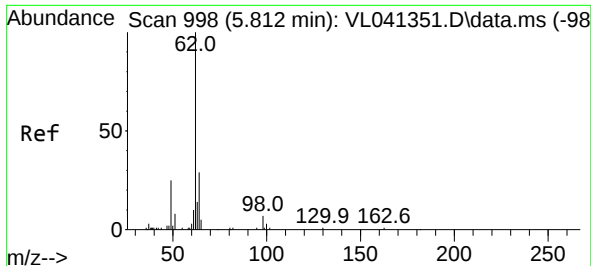
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024



#36  
Benzene  
Concen: 1.147 ppbv  
RT: 6.381 min Scan# 1175  
Delta R.T. 0.000 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

Tgt Ion: 78 Resp: 260568  
Ion Ratio Lower Upper  
78 100  
77 24.6 17.9 26.9  
50 18.4 15.5 23.3





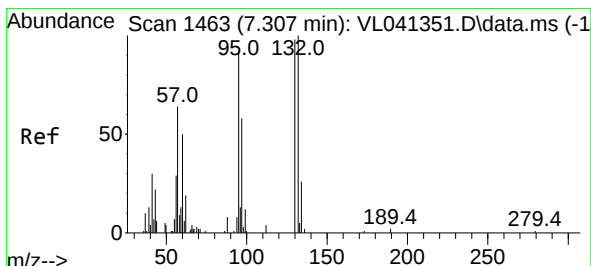
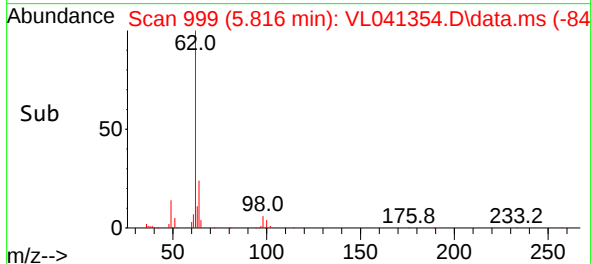
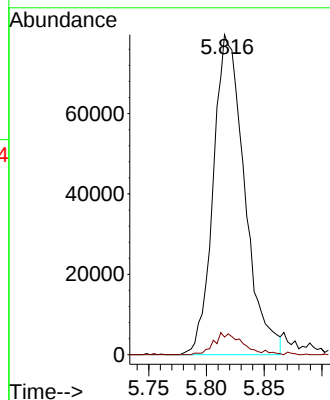
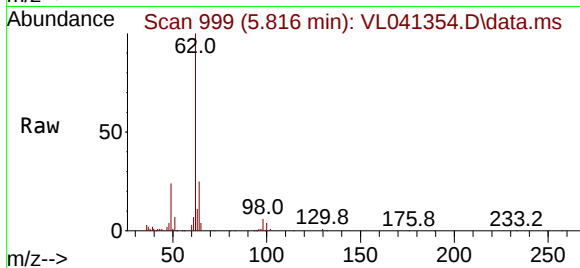
#37  
1,2-Dichloroethane  
Concen: 1.133 ppbv  
RT: 5.816 min Scan# 998  
Delta R.T. -0.003 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

Tgt Ion: 62 Resp: 15006  
Ion Ratio Lower Upper  
62 100  
98 6.5 4.8 7.2

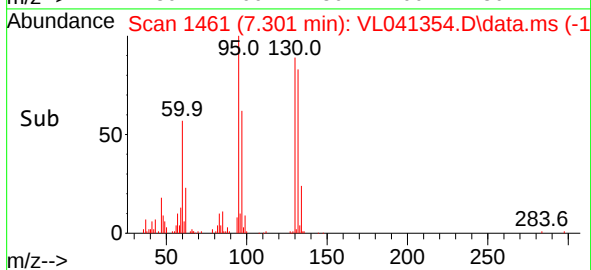
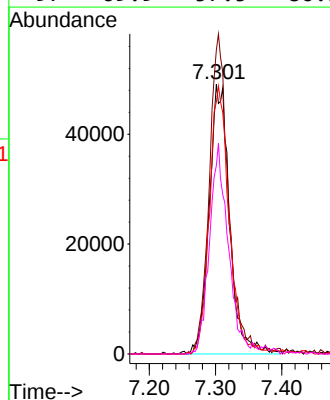
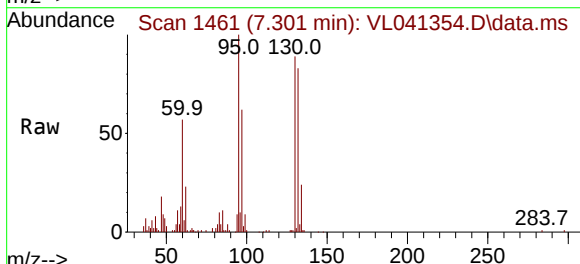
Manual Integrations  
APPROVED

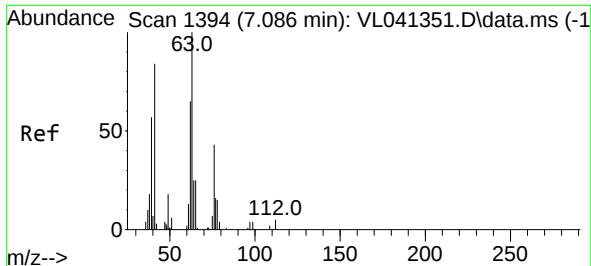
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024



#38  
Trichloroethene  
Concen: 1.141 ppbv m  
RT: 7.301 min Scan# 1461  
Delta R.T. -0.006 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

Tgt Ion:130 Resp: 105095  
Ion Ratio Lower Upper  
130 100  
95 112.7 90.0 135.0  
132 93.4 74.8 112.2  
97 69.9 57.5 86.3





#39

1,2-Dichloropropane

Concen: 1.088 ppbv

RT: 7.086 min Scan# 1394

Delta R.T. -0.003 min

Lab File: VL041354.D

Acq: 26 Jun 2024 10:13

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC001

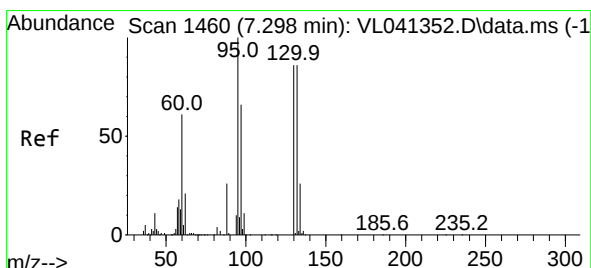
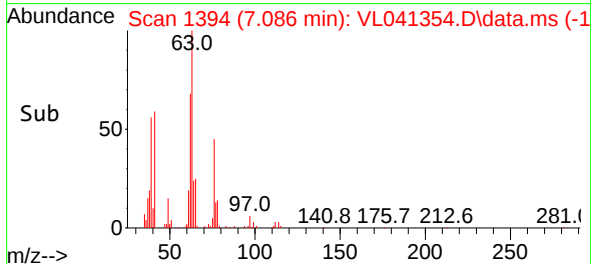
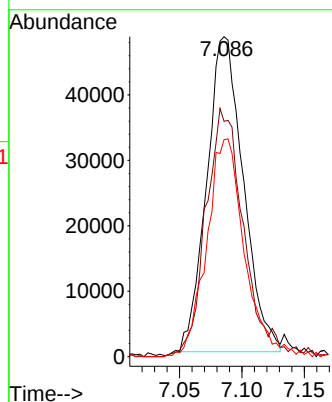
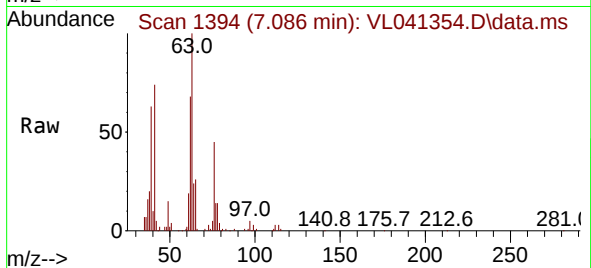
Tgt Ion: 63 Resp: 98476

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 41  | 73.9  | 64.0  | 96.0  |
| 62  | 67.4  | 55.2  | 82.8  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024



#40

1,4-Dioxane

Concen: 0.985 ppbv m

RT: 7.327 min Scan# 1469

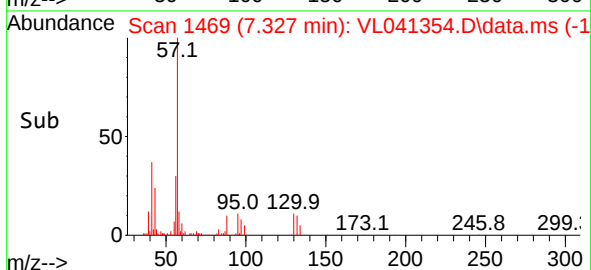
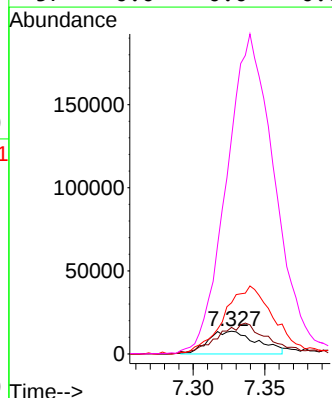
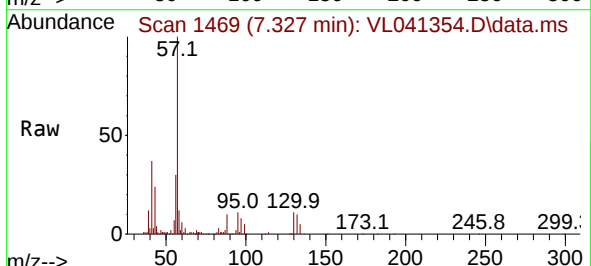
Delta R.T. 0.029 min

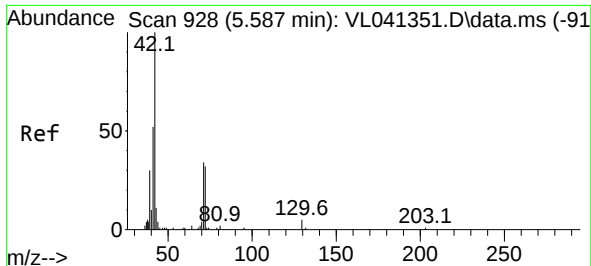
Lab File: VL041354.D

Acq: 26 Jun 2024 10:13

Tgt Ion: 88 Resp: 32637

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 88  | 100   |       |       |
| 58  | 0.0   | 47.9  | 71.9# |
| 43  | 0.0   | 0.0   | 0.0   |
| 57  | 0.0   | 0.0   | 0.0   |





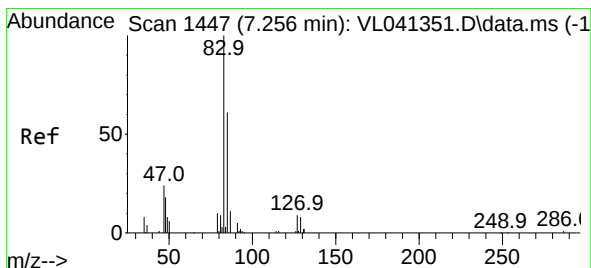
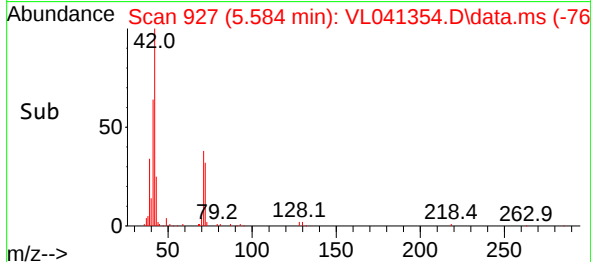
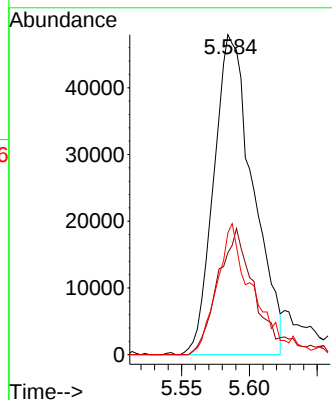
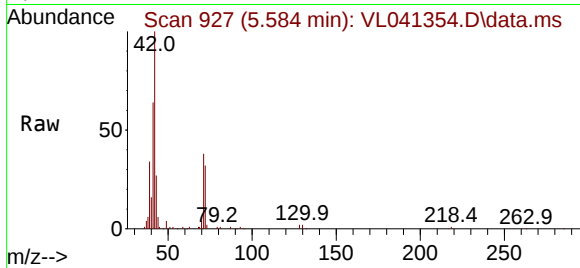
#41  
Tetrahydrofuran  
Concen: 1.056 ppbv  
RT: 5.584 min Scan# 91  
Delta R.T. 0.019 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

Tgt Ion: 42 Resp: 96500  
Ion Ratio Lower Upper  
42 100  
72 40.9 30.3 45.5  
71 39.3 29.7 44.5

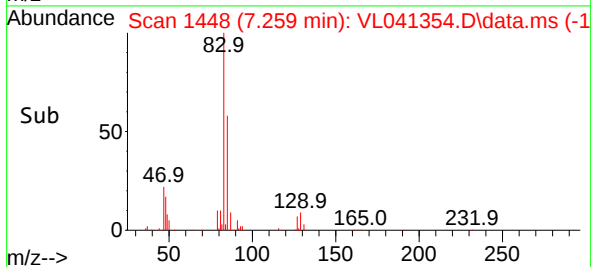
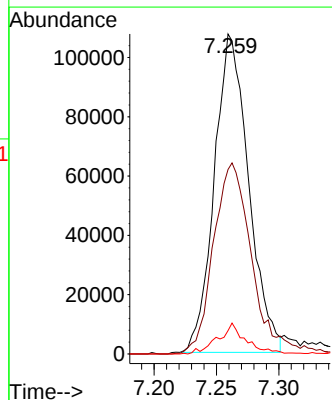
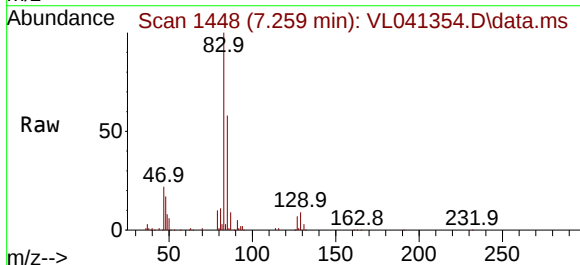
Manual Integrations  
APPROVED

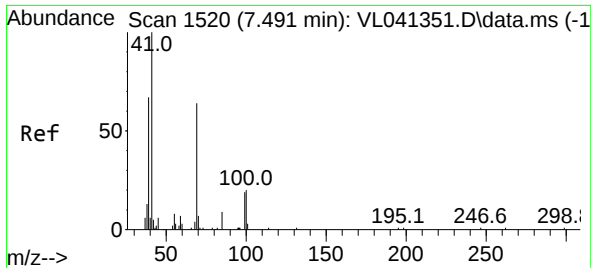
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024



#42  
Bromodichloromethane  
Concen: 1.082 ppbv  
RT: 7.259 min Scan# 1448  
Delta R.T. -0.006 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

Tgt Ion: 83 Resp: 205863  
Ion Ratio Lower Upper  
83 100  
85 57.7 52.0 78.0  
127 7.4 6.0 9.0





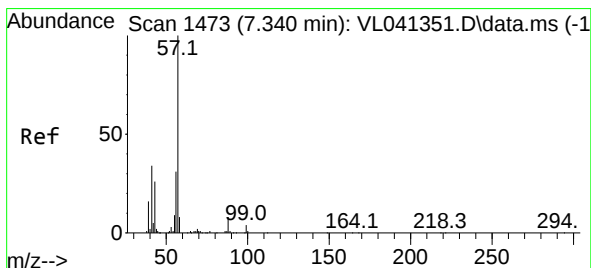
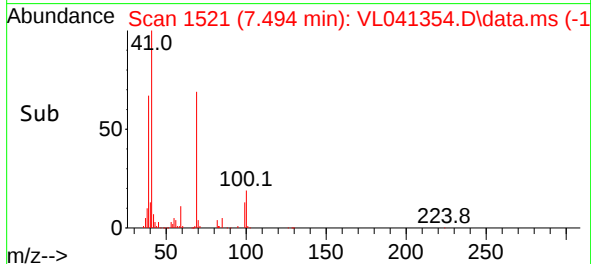
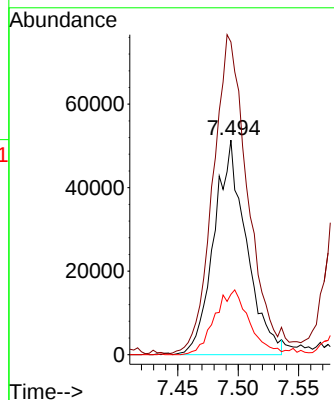
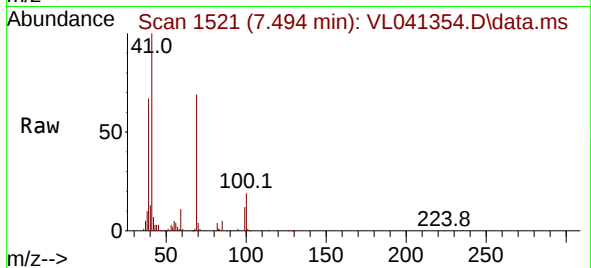
#43  
Methyl Methacrylate  
Concen: 1.104 ppbv m  
RT: 7.494 min Scan# 1520  
Delta R.T. 0.006 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

Tgt Ion: 69 Resp: 9556  
Ion Ratio Lower Upper  
69 100  
41 0.0 125.0 187.6  
100 0.0 26.8 40.2

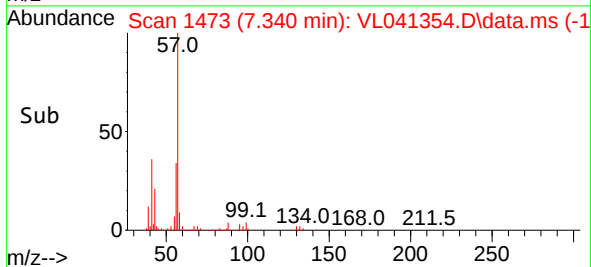
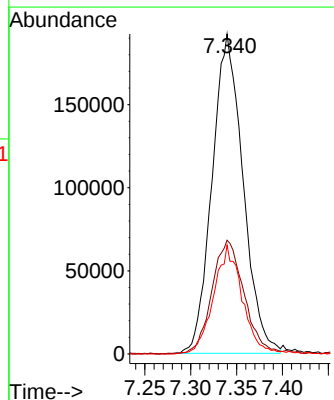
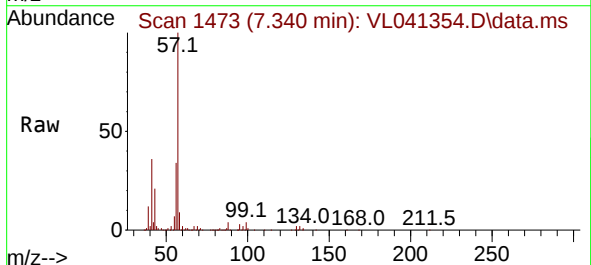
Manual Integrations  
APPROVED

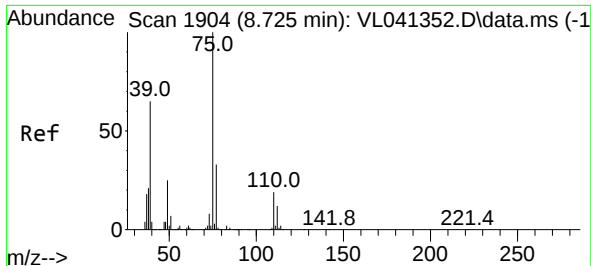
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024



#44  
2,2,4-Trimethylpentane  
Concen: 1.150 ppbv  
RT: 7.340 min Scan# 1473  
Delta R.T. 0.000 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

Tgt Ion: 57 Resp: 449456  
Ion Ratio Lower Upper  
57 100  
41 37.1 29.6 44.4  
56 31.8 25.7 38.5





#45

t-1,3-Dichloropropene

Concen: 0.953 ppbv m

RT: 8.729 min Scan# 1904

Delta R.T. 0.003 min

Lab File: VL041354.D

Acq: 26 Jun 2024 10:13

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC001

Tgt Ion: 75 Resp: 55700

Ion Ratio Lower Upper

75 100

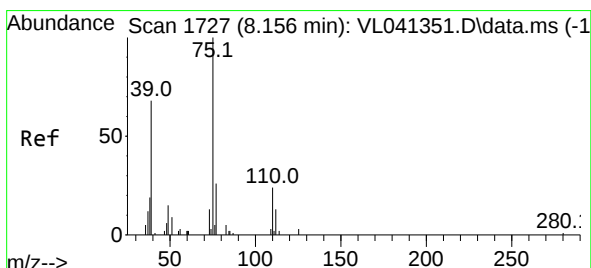
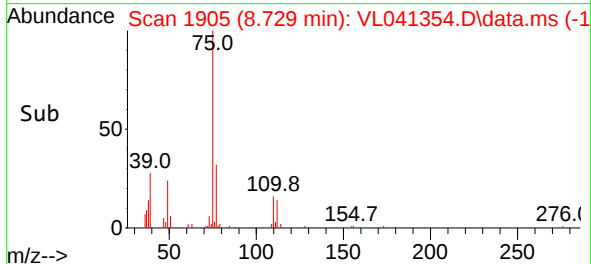
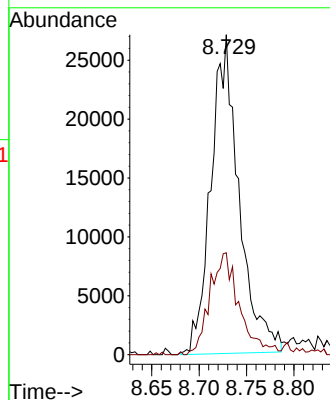
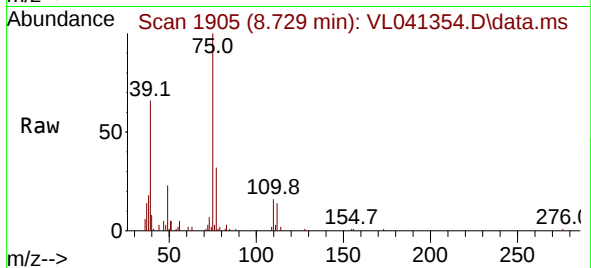
77 31.9 26.2 39.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/27/2024

Supervised By :Mahesh Dadoda 06/27/2024



#46

cis-1,3-Dichloropropene

Concen: 1.031 ppbv

RT: 8.160 min Scan# 1728

Delta R.T. 0.000 min

Lab File: VL041354.D

Acq: 26 Jun 2024 10:13

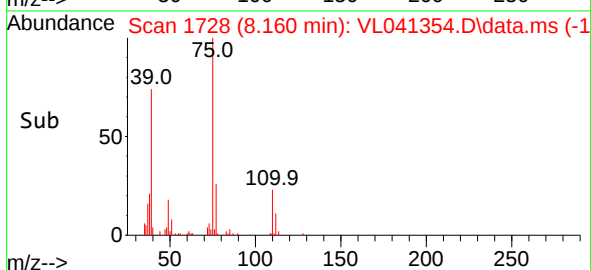
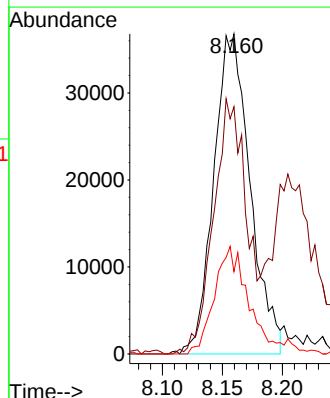
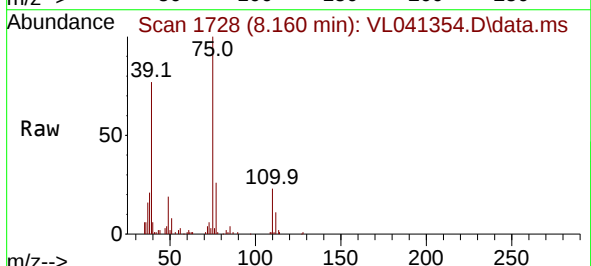
Tgt Ion: 75 Resp: 77498

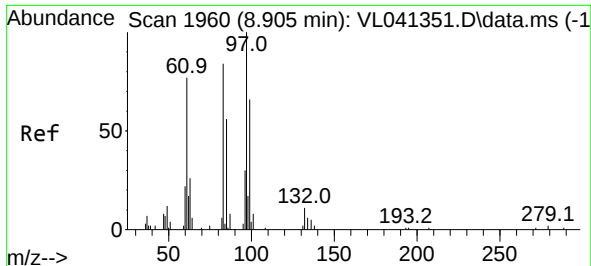
Ion Ratio Lower Upper

75 100

39 75.8 56.6 85.0

77 25.8 25.5 38.3





#47

1,1,2-Trichloroethane

Concen: 1.131 ppbv

RT: 8.912 min Scan# 1960

Delta R.T. 0.000 min

Lab File: VL041354.D

Acq: 26 Jun 2024 10:13

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC001

Tgt Ion: 97 Resp: 106962

Ion Ratio Lower Upper

97 100

83 84.1 72.4 108.6

85 56.2 42.6 64.0

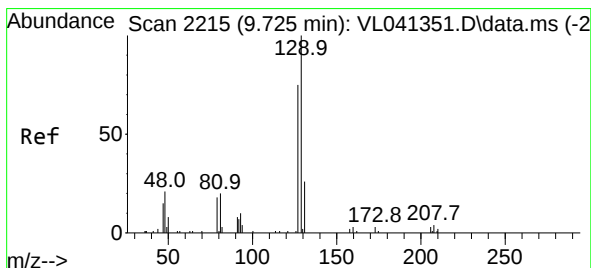
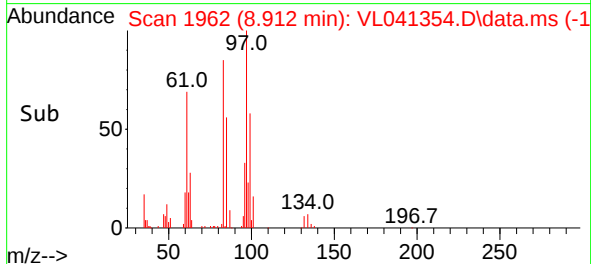
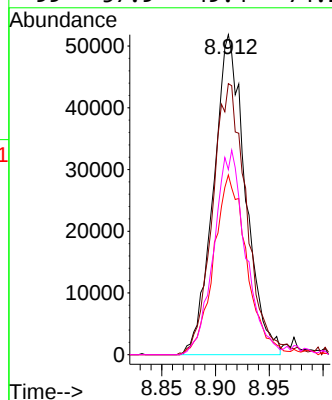
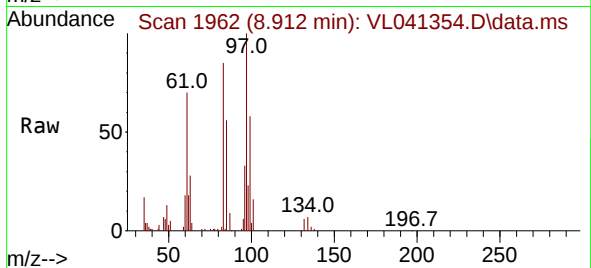
99 57.9 49.4 74.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/27/2024

Supervised By :Mahesh Dadoda 06/27/2024



#48

Dibromochloromethane

Concen: 1.090 ppbv

RT: 9.722 min Scan# 2214

Delta R.T. -0.006 min

Lab File: VL041354.D

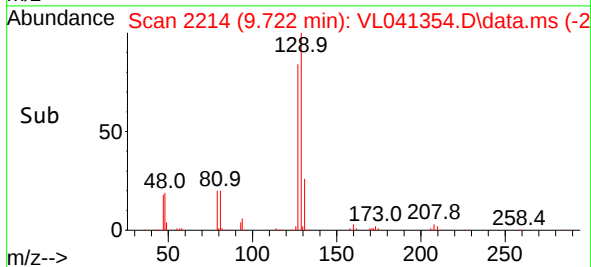
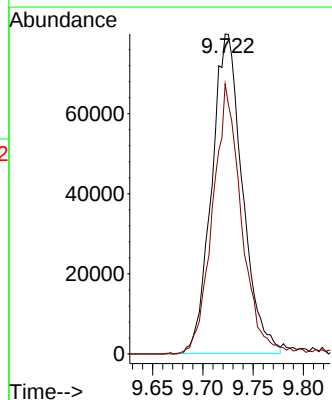
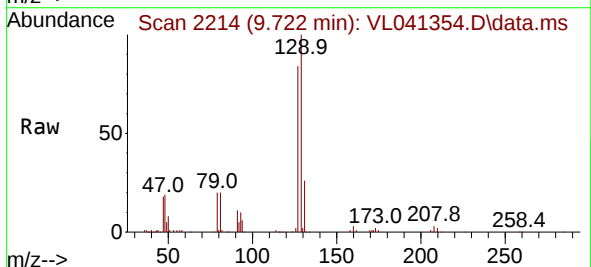
Acq: 26 Jun 2024 10:13

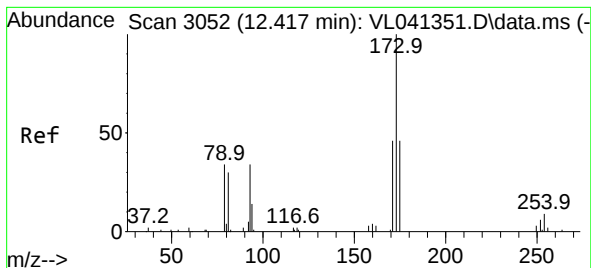
Tgt Ion:129 Resp: 169856

Ion Ratio Lower Upper

129 100

127 79.2 39.9 119.7





#49

Bromoform

Concen: 1.084 ppbv m

RT: 12.413 min Scan# 3052

Delta R.T. -0.010 min

Lab File: VL041354.D

Acq: 26 Jun 2024 10:13

Instrument :

MSVOA\_L

ClientSampleId :

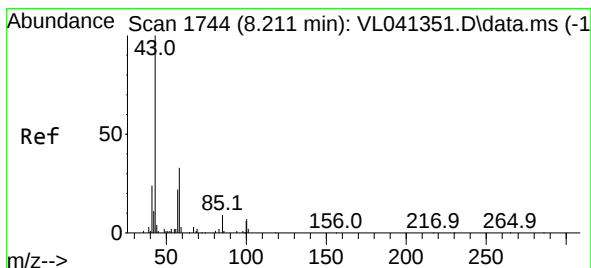
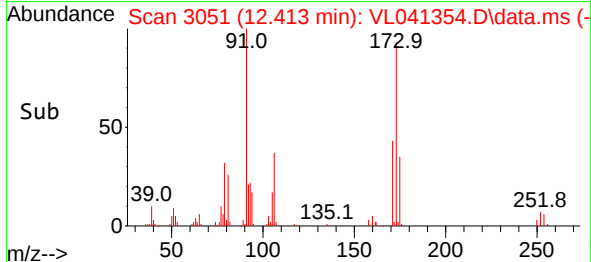
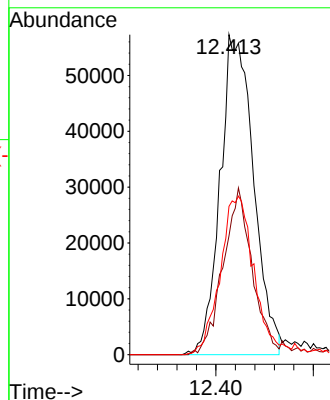
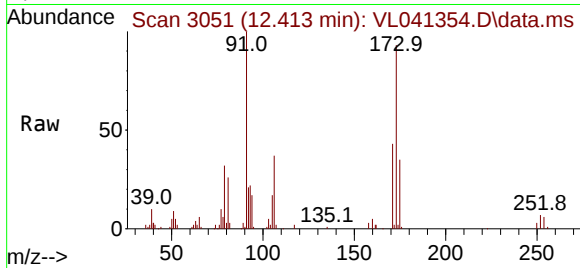
VSTDIC001

Tgt Ion:173 Resp: 136078  
 Ion Ratio Lower Upper  
 173 100  
 175 0.0 40.3 60.5  
 171 0.0 43.8 65.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/27/2024  
 Supervised By :Mahesh Dadoda 06/27/2024



#50

4-Methyl-2-Pentanone

Concen: 1.154 ppbv

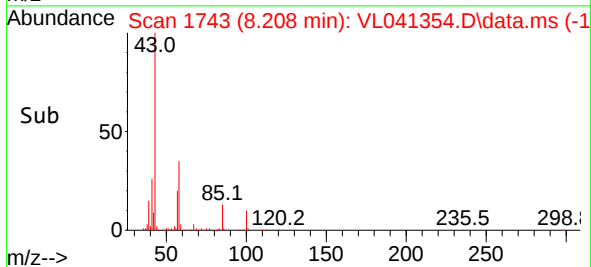
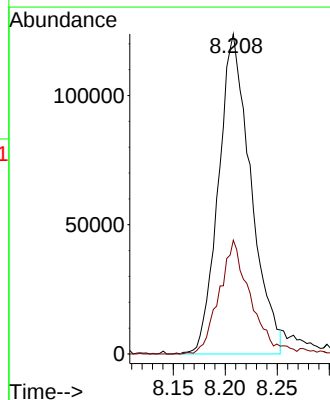
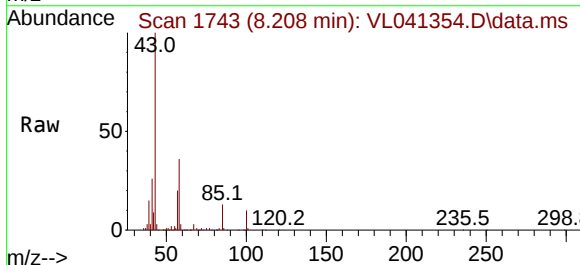
RT: 8.208 min Scan# 1743

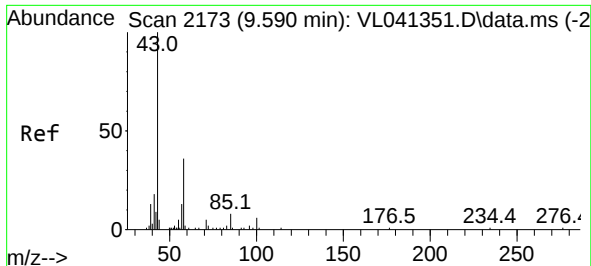
Delta R.T. 0.013 min

Lab File: VL041354.D

Acq: 26 Jun 2024 10:13

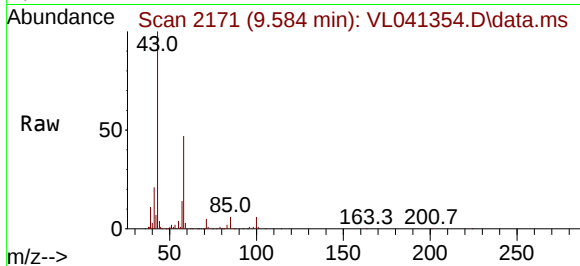
Tgt Ion: 43 Resp: 268205  
 Ion Ratio Lower Upper  
 43 100  
 58 35.2 27.8 41.8





#51  
2-Hexanone  
Concen: 1.138 ppbv  
RT: 9.584 min Scan# 2173  
Delta R.T. 0.016 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

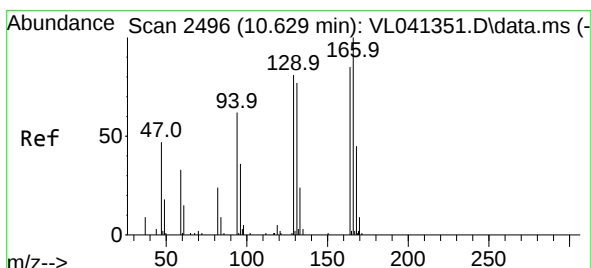
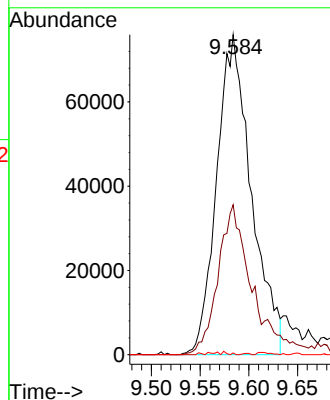
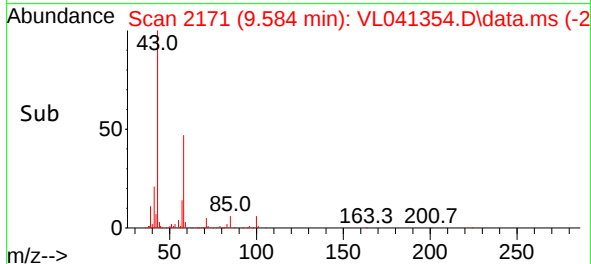
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001



Tgt Ion: 43 Resp: 18795  
Ion Ratio Lower Upper  
43 100  
58 45.9 38.0 57.0  
98 0.5 0.2 0.2

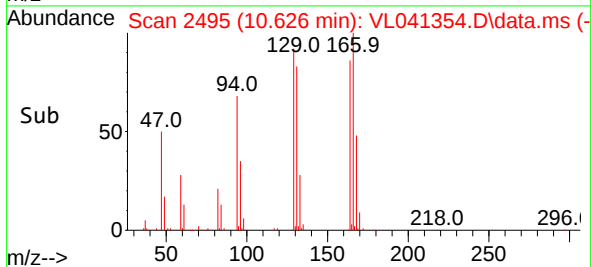
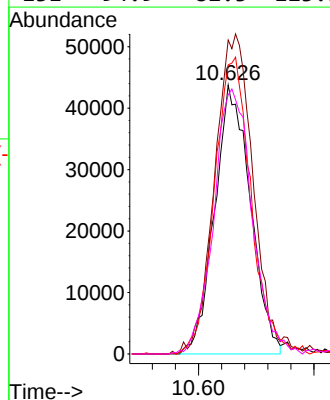
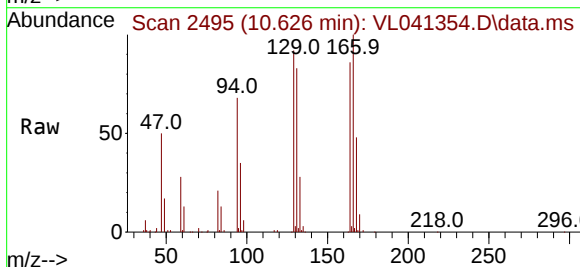
Manual Integrations  
APPROVED

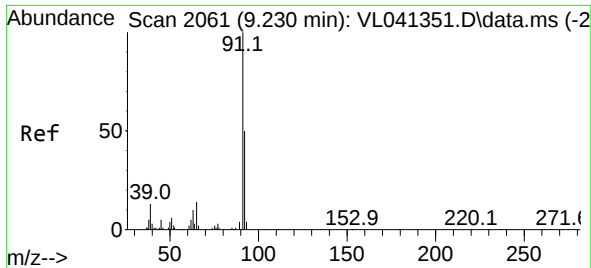
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024



#52  
Tetrachloroethene  
Concen: 1.132 ppbv  
RT: 10.626 min Scan# 2495  
Delta R.T. -0.006 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

Tgt Ion:164 Resp: 93787  
Ion Ratio Lower Upper  
164 100  
166 115.9 99.8 149.8  
129 106.9 83.8 125.6  
131 94.9 82.3 123.5





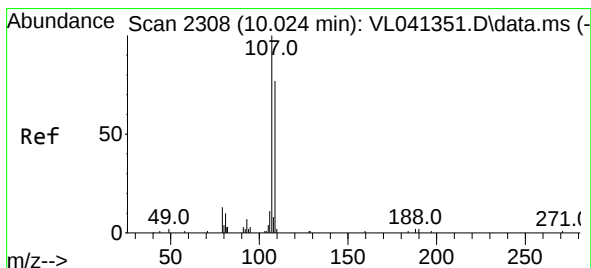
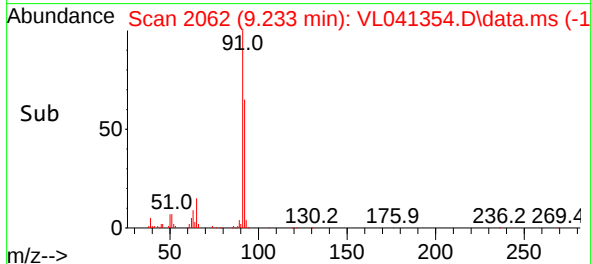
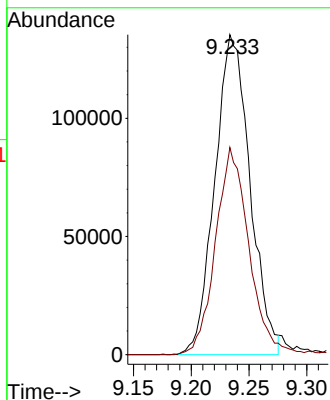
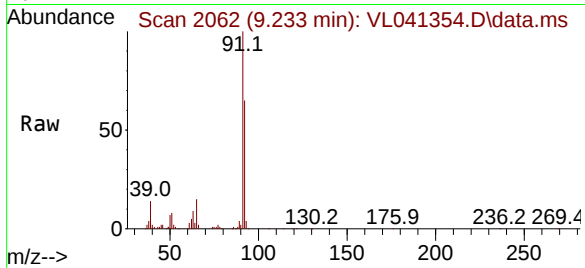
#53  
Toluene  
Concen: 1.096 ppbv  
RT: 9.233 min Scan# 2061  
Delta R.T. -0.003 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

Tgt Ion: 91 Resp: 286524  
Ion Ratio Lower Upper  
91 100  
92 61.9 48.5 72.7

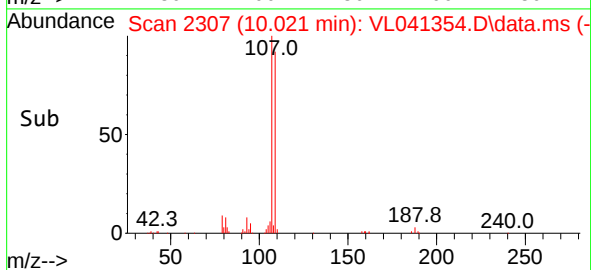
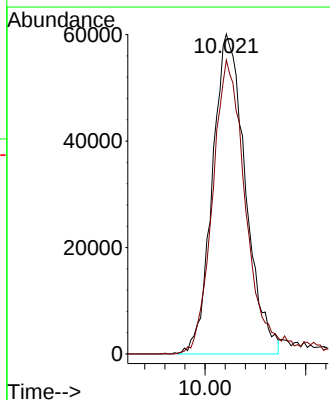
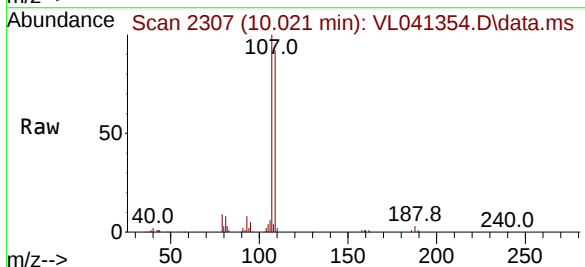
Manual Integrations  
APPROVED

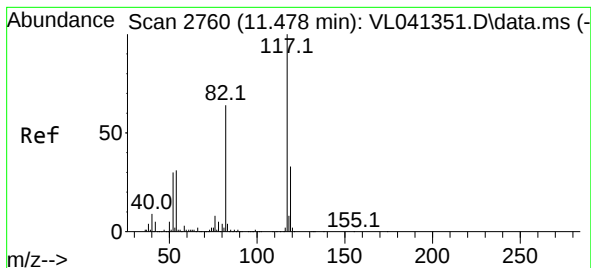
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024



#54  
1,2-Dibromoethane  
Concen: 1.110 ppbv  
RT: 10.021 min Scan# 2307  
Delta R.T. -0.006 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

Tgt Ion:107 Resp: 136878  
Ion Ratio Lower Upper  
107 100  
109 91.8 75.8 113.6





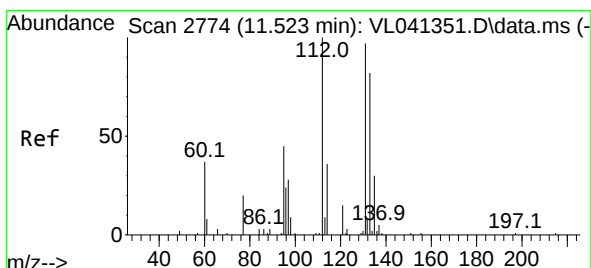
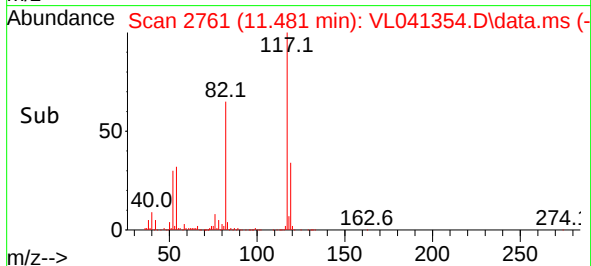
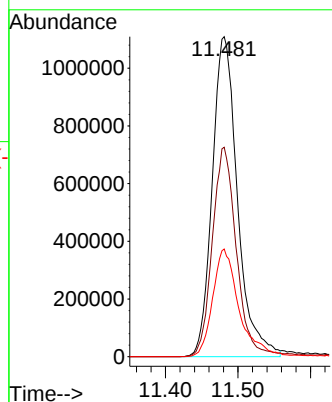
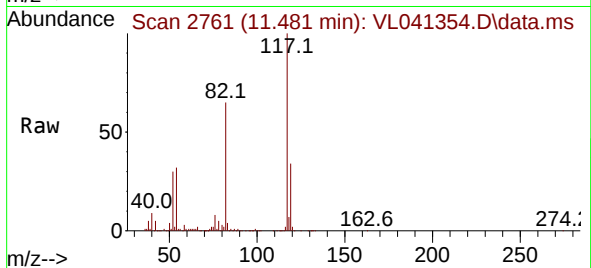
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.481 min Scan# 2760  
Delta R.T. -0.003 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

Tgt Ion:117 Resp: 2677200  
Ion Ratio Lower Upper  
117 100  
82 64.2 50.6 75.8  
119 35.7 24.7 37.1

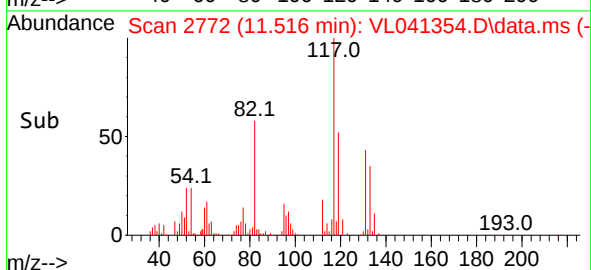
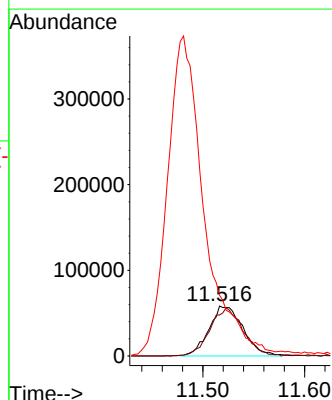
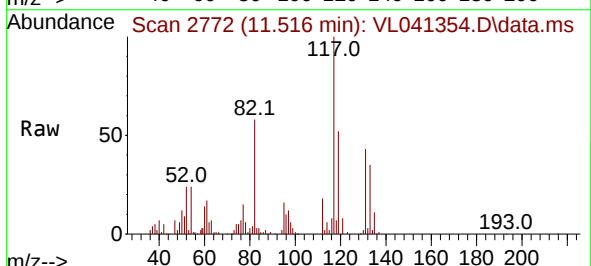
Manual Integrations  
APPROVED

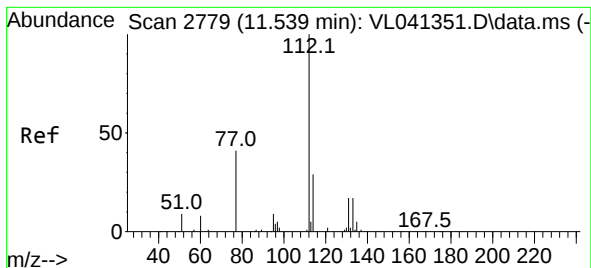
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024



#56  
1,1,1,2-Tetrachloroethane  
Concen: 1.194 ppbv m  
RT: 11.516 min Scan# 2772  
Delta R.T. -0.010 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

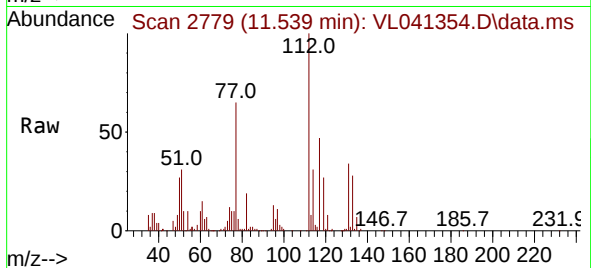
Tgt Ion:131 Resp: 135253  
Ion Ratio Lower Upper  
131 100  
133 94.7 76.8 115.2  
119 0.0 49.4 74.0#





#57  
Chlorobenzene  
Concen: 1.174 ppbv  
RT: 11.539 min Scan# 211  
Delta R.T. -0.006 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

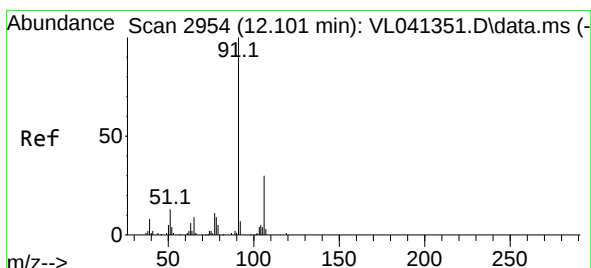
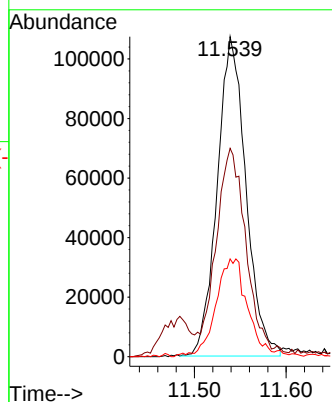
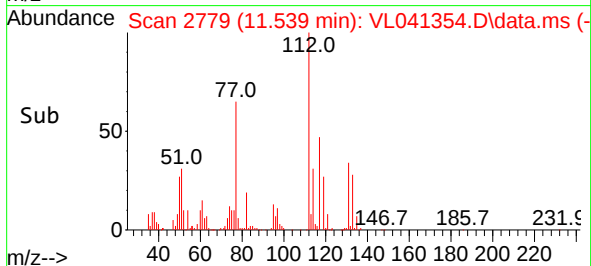
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001



Tgt Ion: 112 Resp: 233514  
Ion Ratio Lower Upper  
112 100  
77 62.4 53.2 79.8  
114 29.9 30.1 36.7

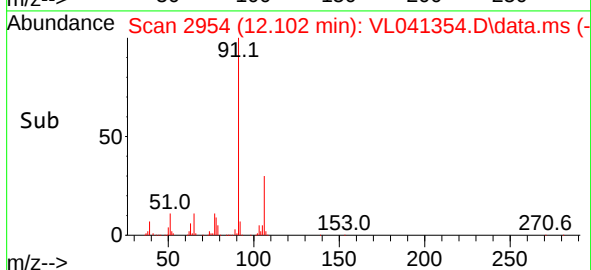
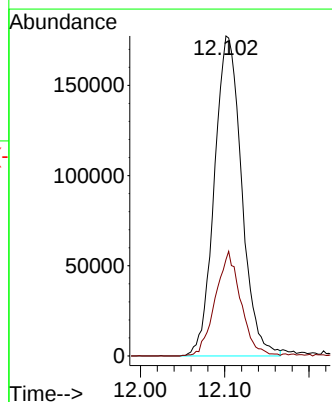
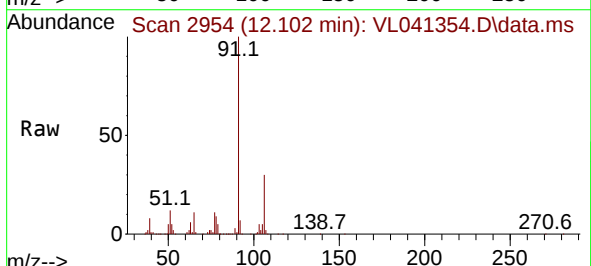
Manual Integrations  
APPROVED

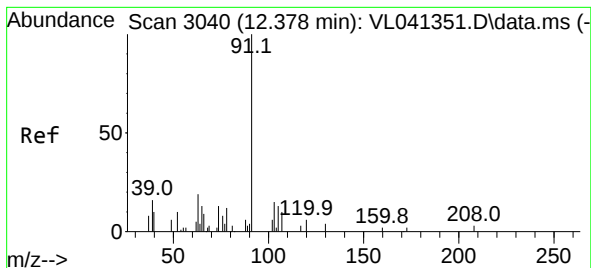
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024



#58  
Ethyl Benzene  
Concen: 1.162 ppbv  
RT: 12.102 min Scan# 2954  
Delta R.T. -0.003 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

Tgt Ion: 91 Resp: 398770  
Ion Ratio Lower Upper  
91 100  
106 30.1 25.4 38.0





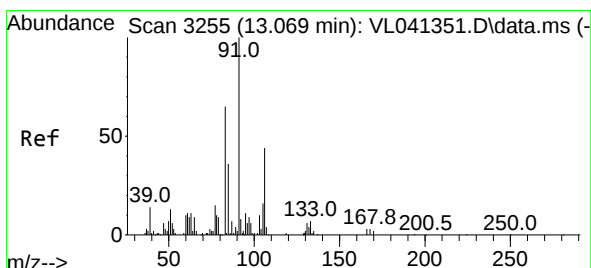
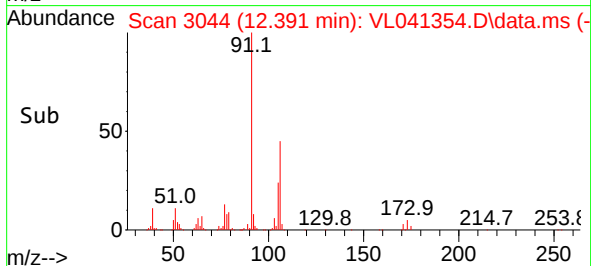
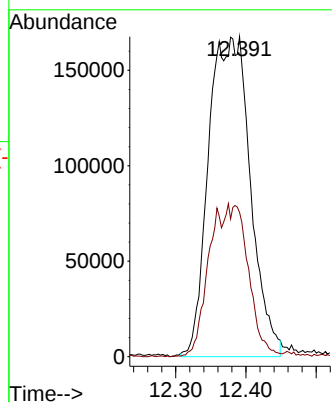
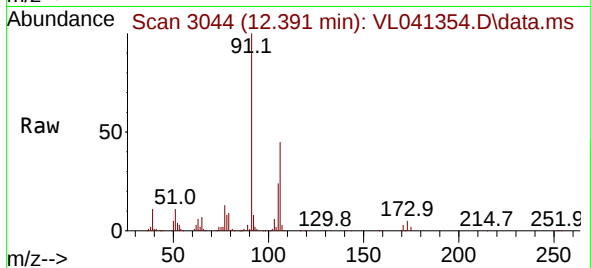
#59  
m/p-Xylene  
Concen: 2.352 ppbv m  
RT: 12.391 min Scan# 3044  
Delta R.T. 0.006 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

Tgt Ion: 91 Resp: 691650  
Ion Ratio Lower Upper  
91 100  
106 45.1 35.6 53.4

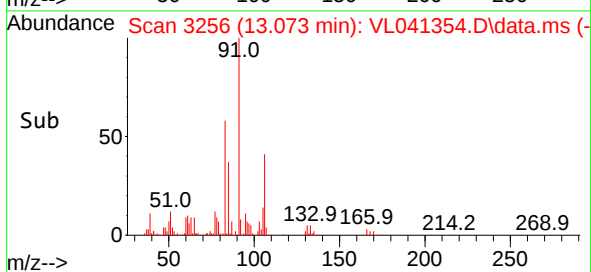
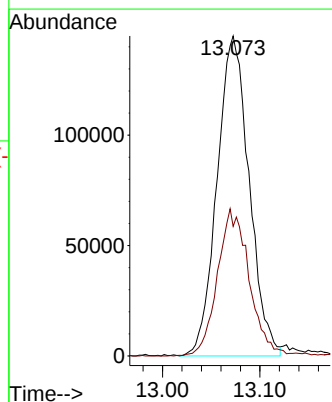
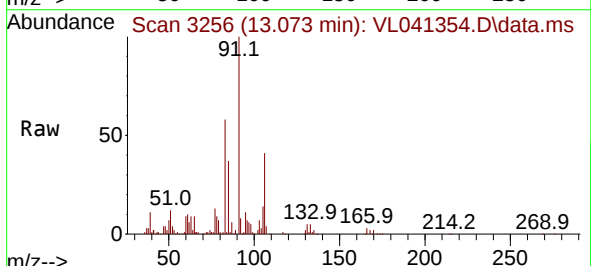
Manual Integrations  
APPROVED

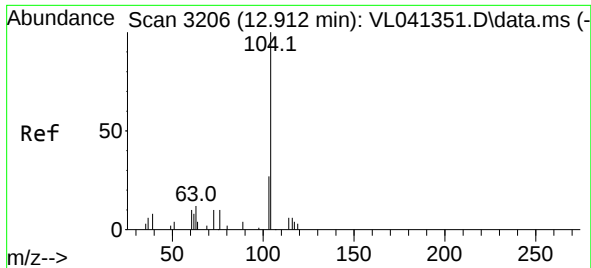
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024



#60  
o-Xylene  
Concen: 1.183 ppbv  
RT: 13.073 min Scan# 3256  
Delta R.T. -0.003 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

Tgt Ion: 91 Resp: 331475  
Ion Ratio Lower Upper  
91 100  
106 45.8 23.3 69.8





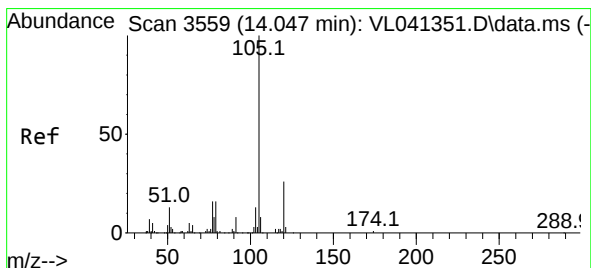
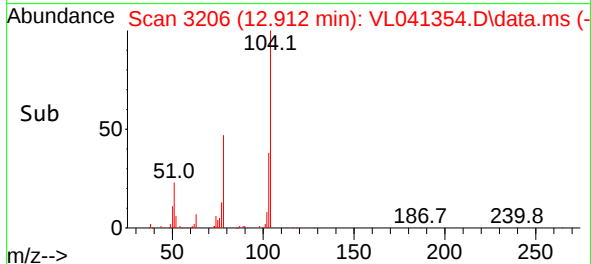
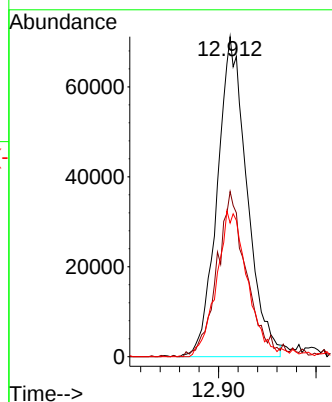
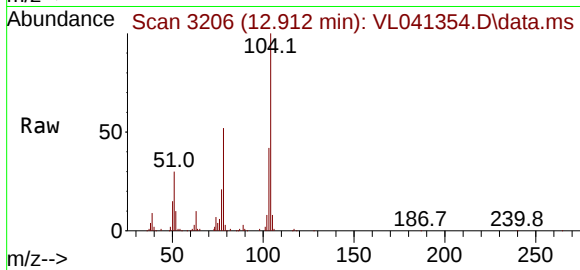
#61  
Styrene  
Concen: 1.099 ppbv  
RT: 12.912 min Scan# 31  
Delta R.T. -0.003 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

Tgt Ion:104 Resp: 15102  
Ion Ratio Lower Upper  
104 100  
78 52.0 40.6 61.0  
103 48.7 37.4 56.0

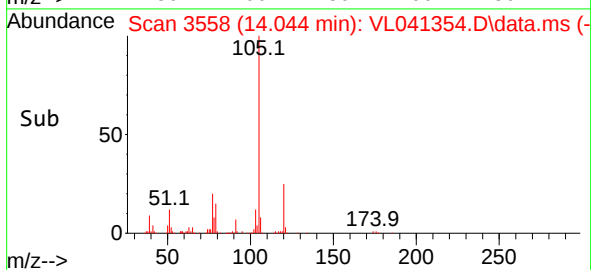
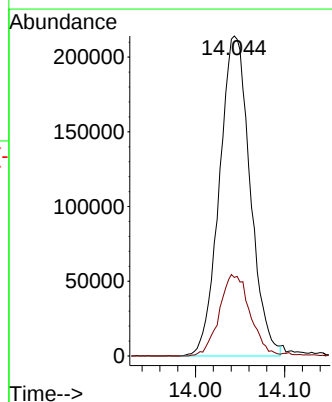
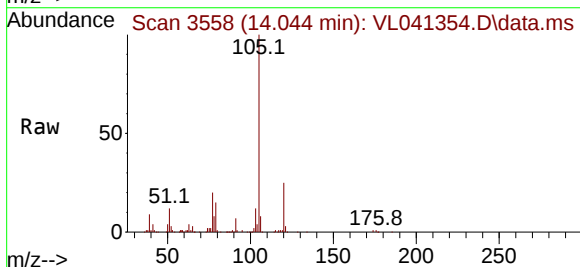
Manual Integrations  
APPROVED

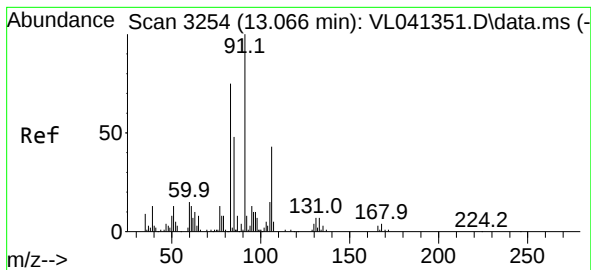
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024



#62  
Isopropylbenzene  
Concen: 1.208 ppbv  
RT: 14.044 min Scan# 3558  
Delta R.T. 0.000 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

Tgt Ion:105 Resp: 512092  
Ion Ratio Lower Upper  
105 100  
120 26.0 20.9 31.3





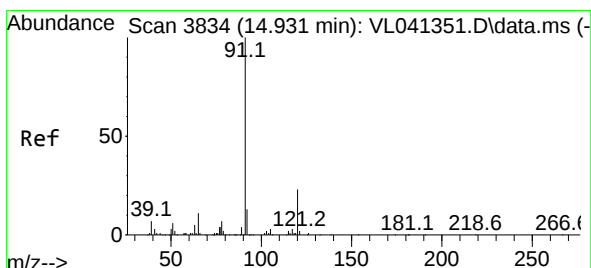
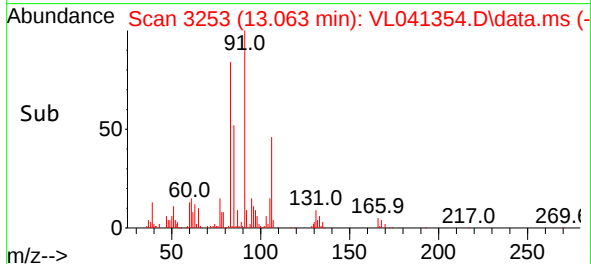
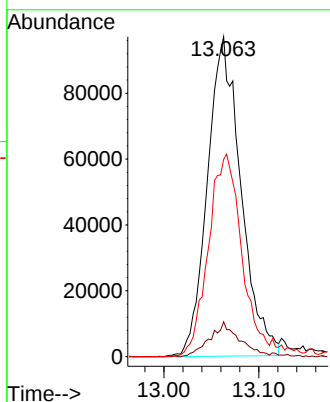
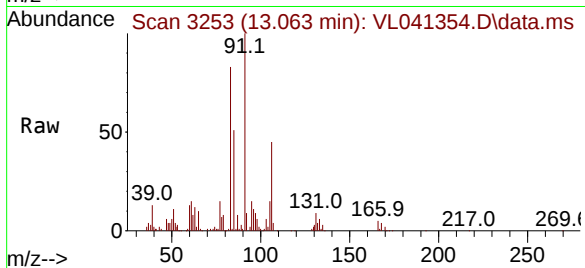
#63  
1,1,2,2-Tetrachloroethane  
Concen: 1.191 ppbv m  
RT: 13.063 min Scan# 31  
Delta R.T. -0.003 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

Tgt Ion: 83 Resp: 237424  
Ion Ratio Lower Upper  
83 100  
131 10.1 4.8 14.4  
85 65.9 33.0 98.9

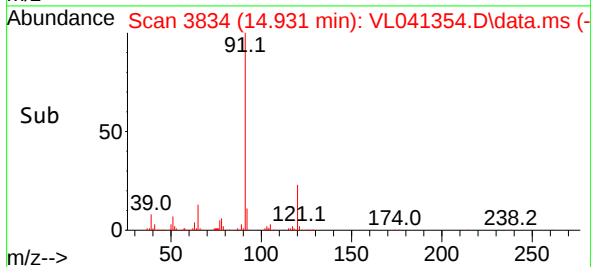
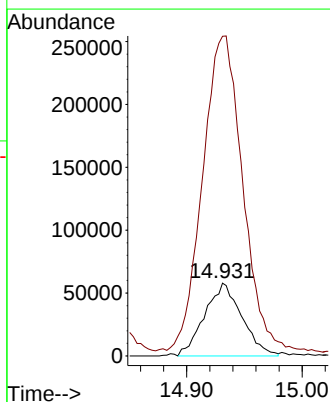
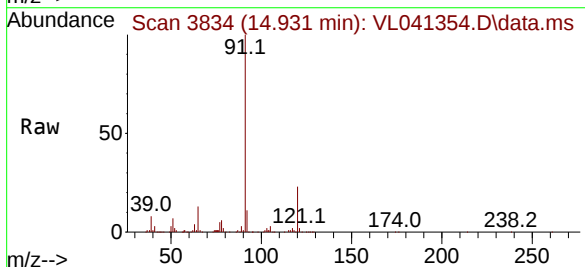
Manual Integrations  
APPROVED

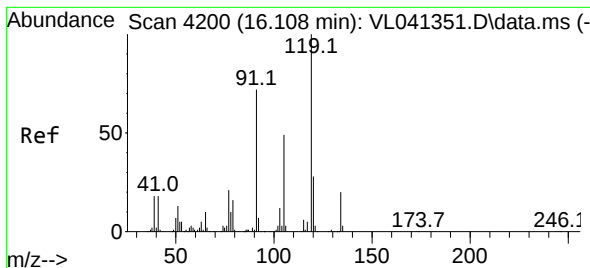
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024



#64  
n-propylbenzene  
Concen: 1.187 ppbv  
RT: 14.931 min Scan# 3834  
Delta R.T. -0.003 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

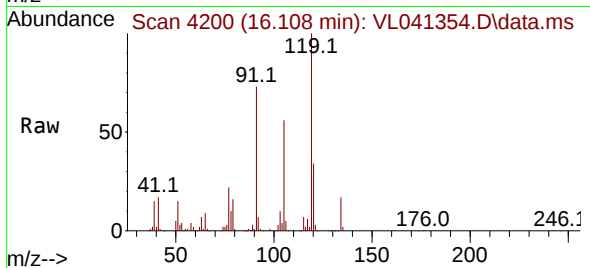
Tgt Ion:120 Resp: 129653  
Ion Ratio Lower Upper  
120 100  
91 496.6 378.4 567.6





#65  
tert-Butylbenzene  
Concen: 1.226 ppbv  
RT: 16.108 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

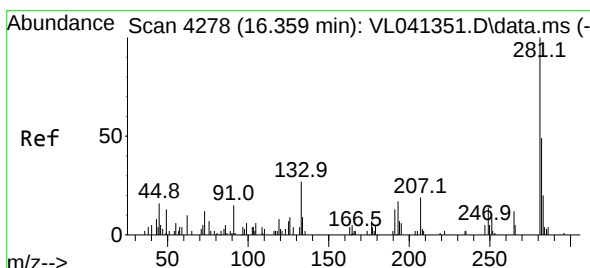
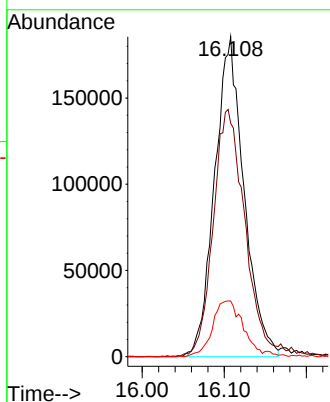
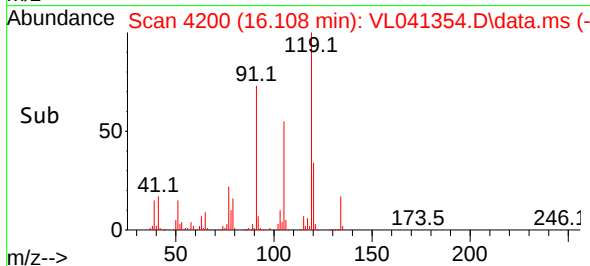
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001



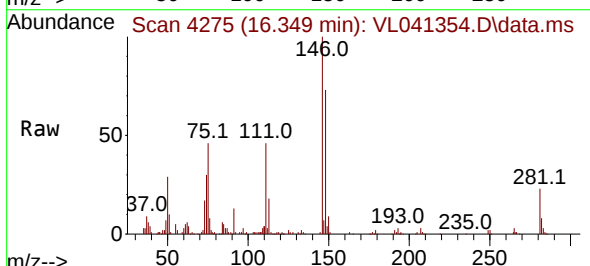
Tgt Ion:119 Resp: 461952  
Ion Ratio Lower Upper  
119 100  
91 85.1 65.8 98.6  
134 18.8 15.7 23.5

Manual Integrations  
APPROVED

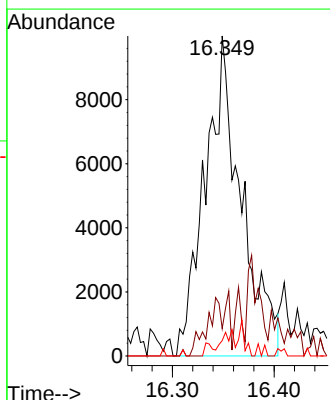
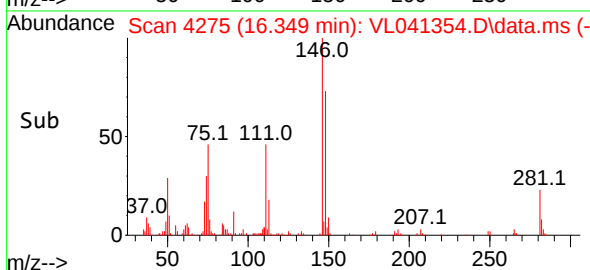
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024

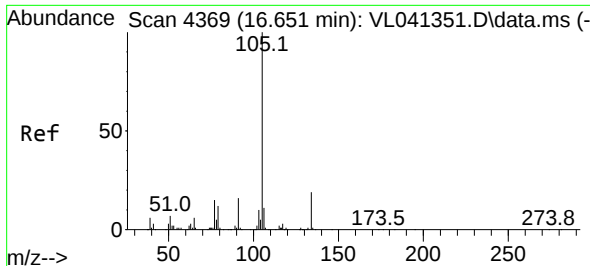


#66  
Benzyl Chloride  
Concen: 0.988 ppbv m  
RT: 16.349 min Scan# 4275  
Delta R.T. 0.006 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13



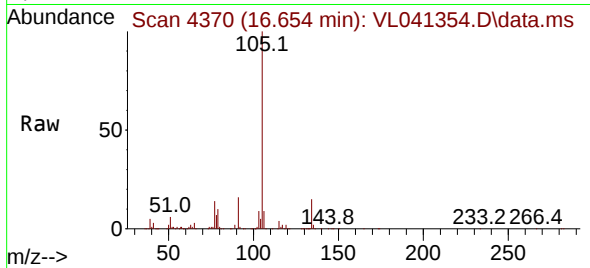
Tgt Ion: 91 Resp: 24496  
Ion Ratio Lower Upper  
91 100  
126 10.5 15.4 23.0#  
128 0.3 5.0 7.4#





#67  
 sec-Butylbenzene  
 Concen: 1.205 ppbv  
 RT: 16.654 min Scan# 4369  
 Delta R.T. 0.000 min  
 Lab File: VL041354.D  
 Acq: 26 Jun 2024 10:13

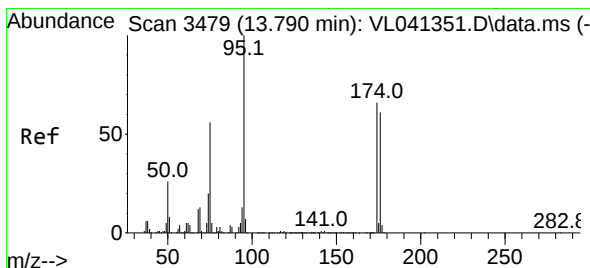
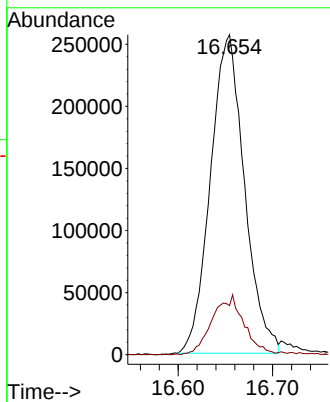
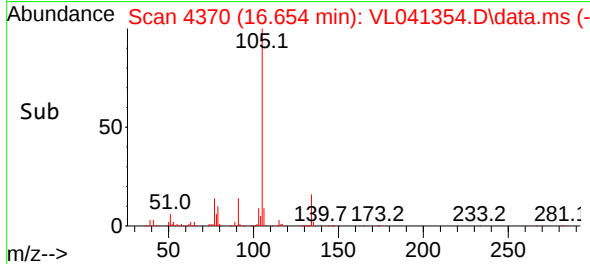
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001



Tgt Ion:105 Resp: 64170  
 Ion Ratio Lower Upper  
 105 100  
 134 18.1 14.2 21.2

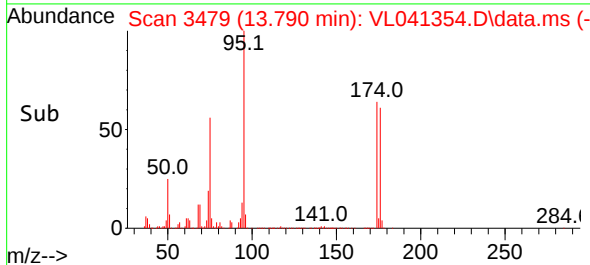
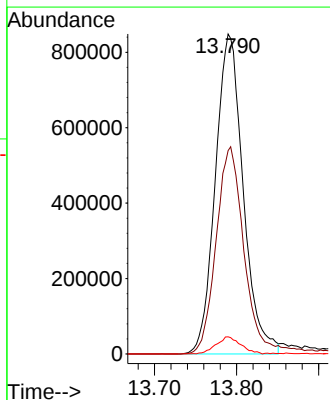
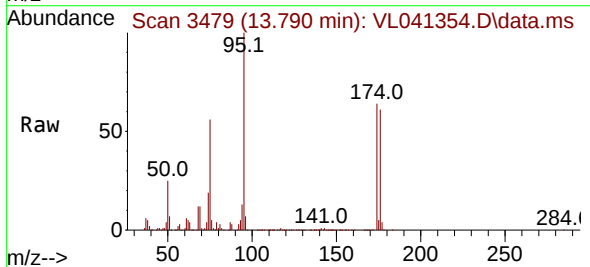
Manual Integrations  
 APPROVED

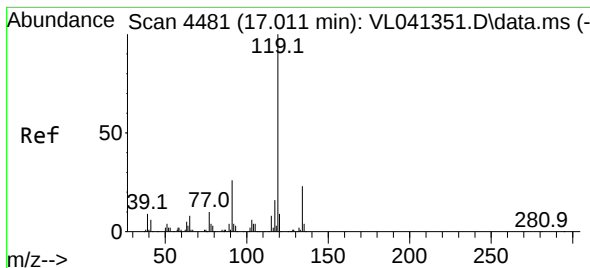
Reviewed By :Semsettin Yesilyurt 06/27/2024  
 Supervised By :Mahesh Dadoda 06/27/2024



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.691 ppbv  
 RT: 13.790 min Scan# 3479  
 Delta R.T. -0.003 min  
 Lab File: VL041354.D  
 Acq: 26 Jun 2024 10:13

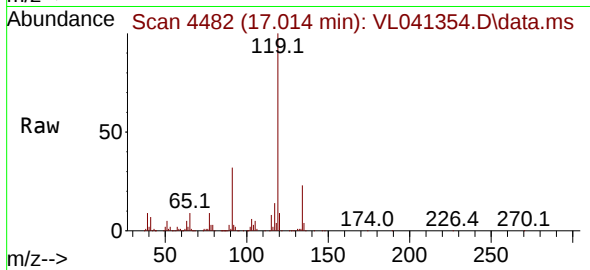
Tgt Ion: 95 Resp: 2003165  
 Ion Ratio Lower Upper  
 95 100  
 174 67.3 53.1 79.7  
 175 4.9 4.0 6.0





#69  
p-Isopropyltoluene  
Concen: 1.203 ppbv  
RT: 17.014 min Scan# 4481  
Delta R.T. 0.000 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

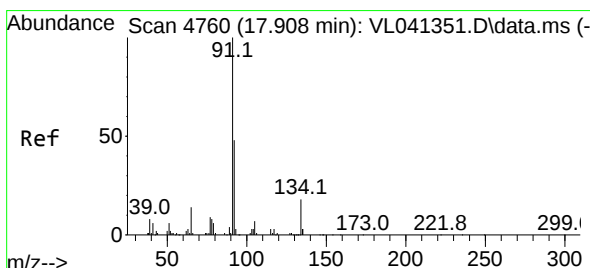
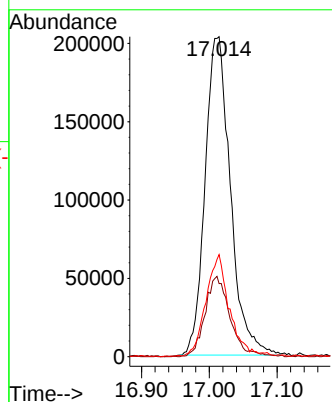
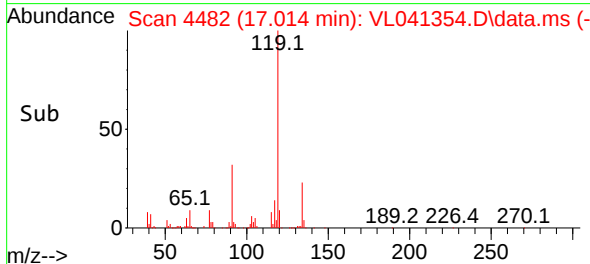
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001



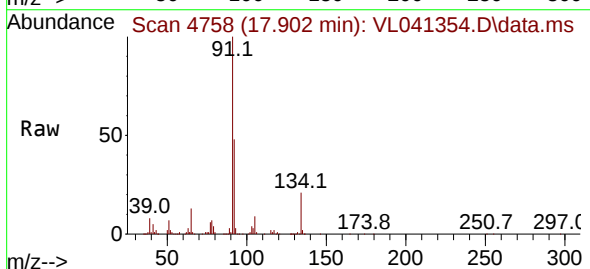
Tgt Ion:119 Resp: 527960  
Ion Ratio Lower Upper  
119 100  
134 25.0 20.0 30.0  
91 30.0 23.7 35.5

Manual Integrations  
APPROVED

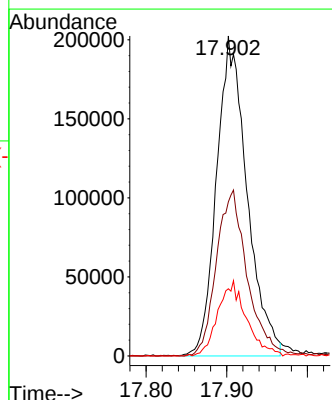
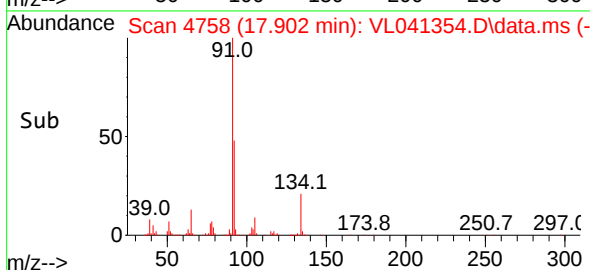
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024

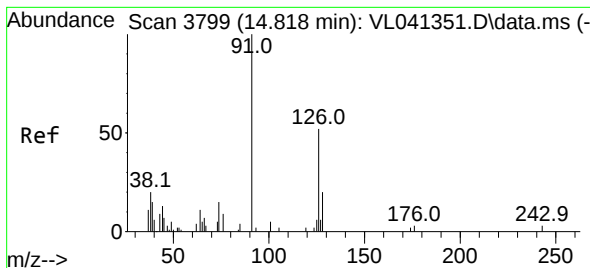


#70  
n-Butylbenzene  
Concen: 1.164 ppbv m  
RT: 17.902 min Scan# 4758  
Delta R.T. 0.000 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13



Tgt Ion: 91 Resp: 530043  
Ion Ratio Lower Upper  
91 100  
92 0.0 43.0 64.6#  
134 0.0 18.0 27.0#





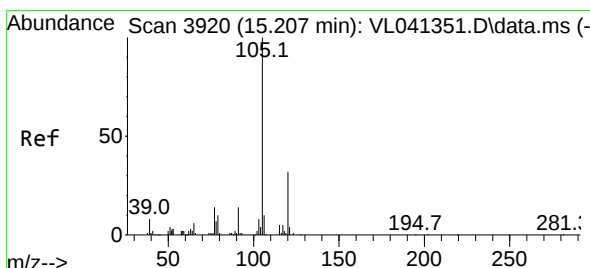
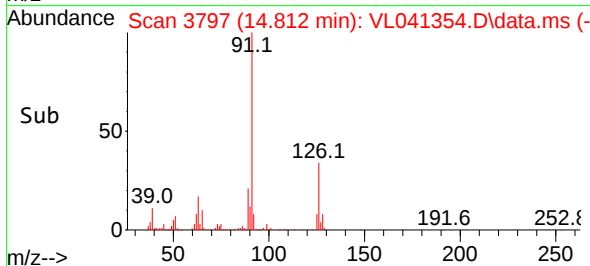
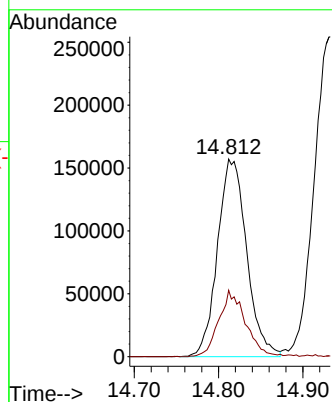
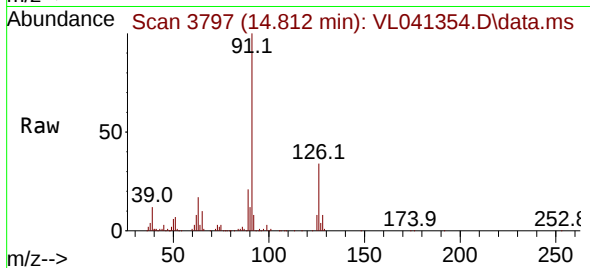
#71  
2-Chlorotoluene  
Concen: 1.164 ppbv  
RT: 14.812 min Scan# 31  
Delta R.T. -0.006 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

Tgt Ion: 91 Resp: 377532  
Ion Ratio Lower Upper  
91 100  
126 31.7 12.9 51.7

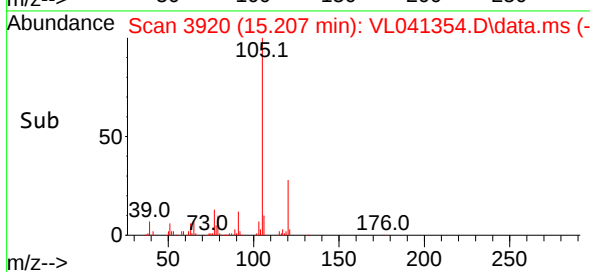
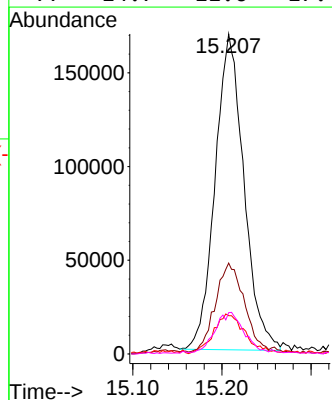
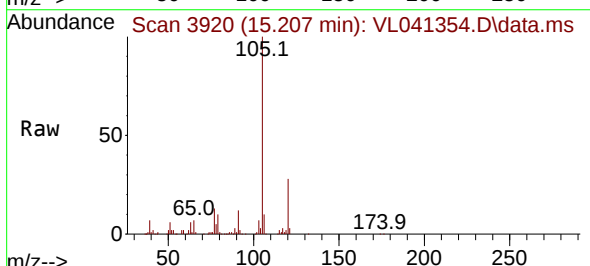
Manual Integrations  
APPROVED

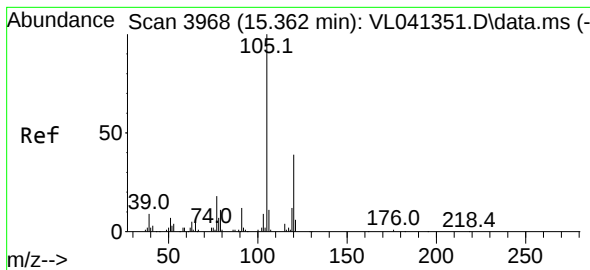
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024



#72  
4-Ethyltoluene  
Concen: 1.155 ppbv  
RT: 15.207 min Scan# 3920  
Delta R.T. -0.003 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

Tgt Ion:105 Resp: 377290  
Ion Ratio Lower Upper  
105 100  
120 31.1 24.2 36.4  
91 13.1 10.2 15.2  
77 14.7 11.6 17.4





#73

1,3,5-Trimethylbenzene

Concen: 1.161 ppbv

RT: 15.362 min Scan# 3968

Delta R.T. -0.006 min

Lab File: VL041354.D

Acq: 26 Jun 2024 10:13

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC001

Tgt Ion:105 Resp: 329198

Ion Ratio Lower Upper

105 100

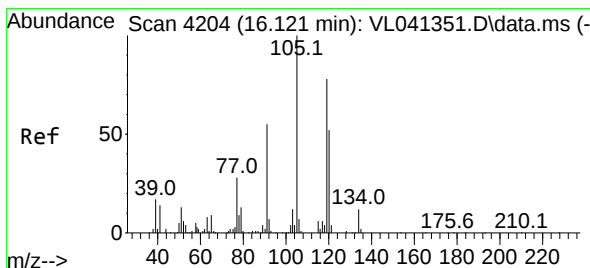
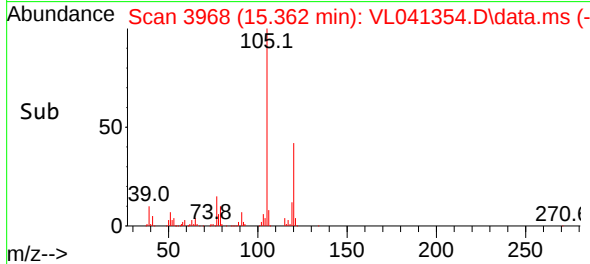
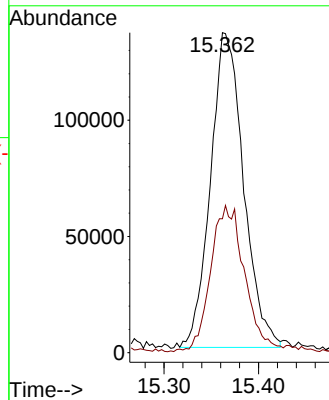
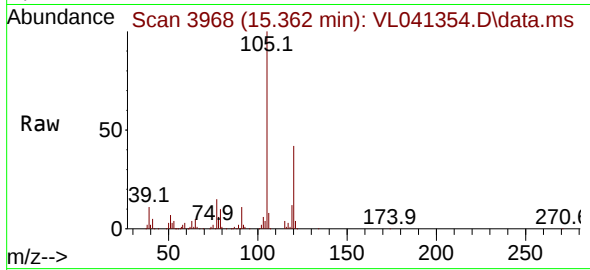
120 41.5 37.3 55.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/27/2024

Supervised By :Mahesh Dadoda 06/27/2024



#74

1,2,4-Trimethylbenzene

Concen: 1.163 ppbv

RT: 16.124 min Scan# 4205

Delta R.T. -0.003 min

Lab File: VL041354.D

Acq: 26 Jun 2024 10:13

Tgt Ion:105 Resp: 372859

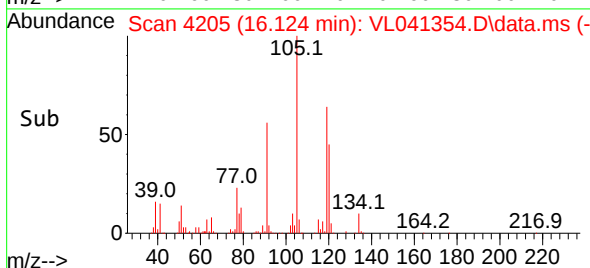
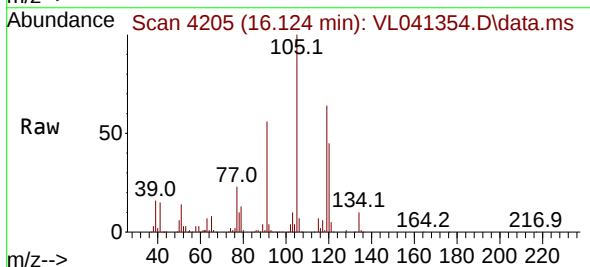
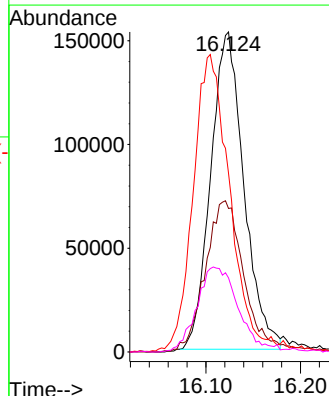
Ion Ratio Lower Upper

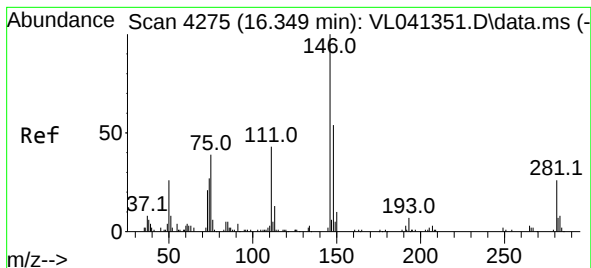
105 100

120 43.0 37.8 56.8

91 53.8 38.0 57.0

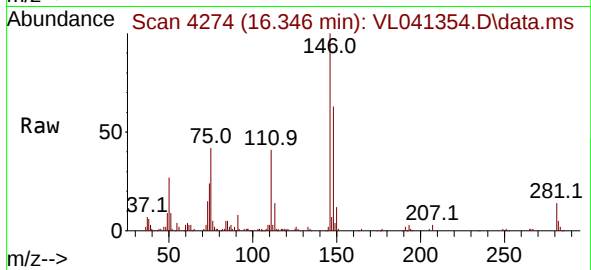
77 22.7 17.5 26.3





#75  
1,3-Dichlorobenzene  
Concen: 1.176 ppbv  
RT: 16.346 min Scan# 4274  
Delta R.T. -0.003 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

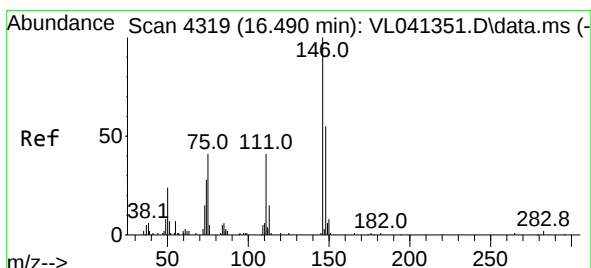
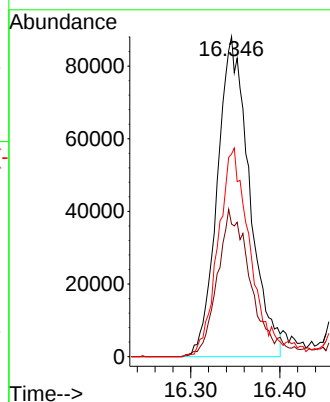
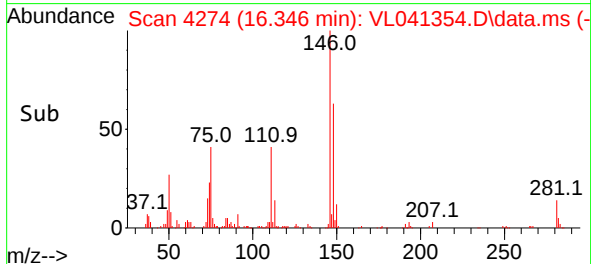
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001



Tgt Ion:146 Resp: 221285  
Ion Ratio Lower Upper  
146 100  
111 49.6 23.5 70.5  
148 67.3 32.3 96.9

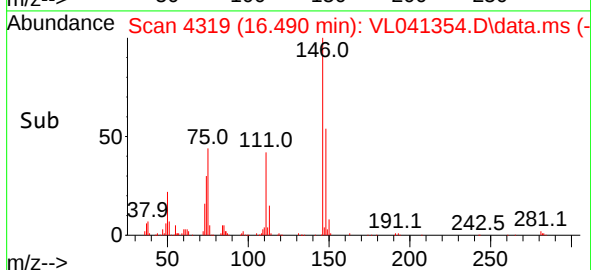
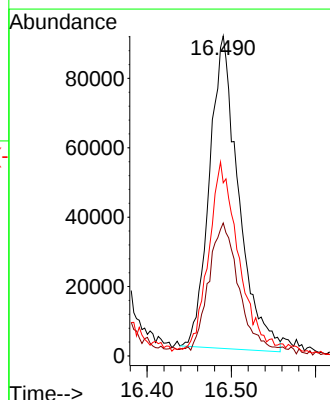
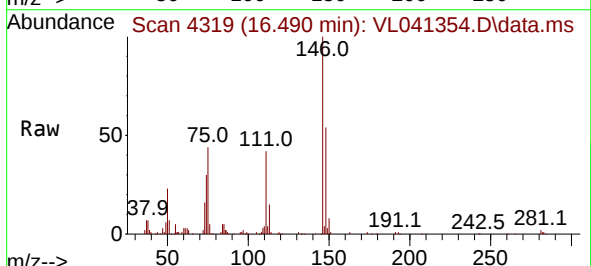
Manual Integrations  
APPROVED

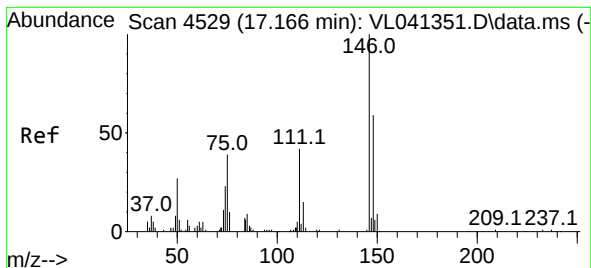
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024



#76  
1,4-Dichlorobenzene  
Concen: 1.150 ppbv  
RT: 16.490 min Scan# 4319  
Delta R.T. 0.000 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

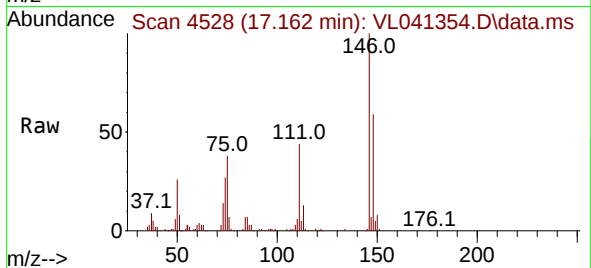
Tgt Ion:146 Resp: 216216  
Ion Ratio Lower Upper  
146 100  
111 48.9 22.9 68.8  
148 67.9 32.8 98.3





#77  
1,2-Dichlorobenzene  
Concen: 1.185 ppbv  
RT: 17.162 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

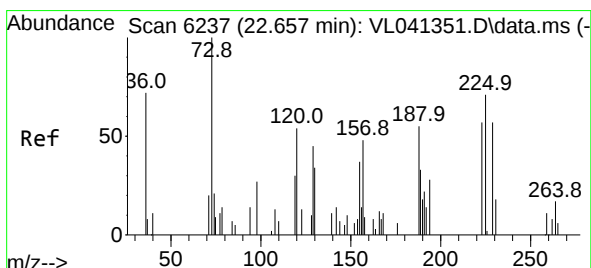
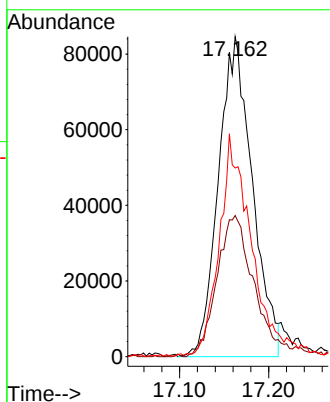
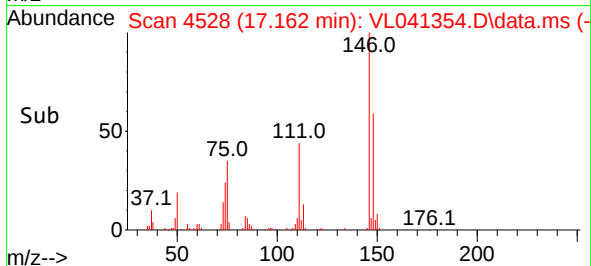
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001



Tgt Ion:146 Resp: 223264  
Ion Ratio Lower Upper  
146 100  
111 49.8 24.1 72.2  
148 66.7 31.9 95.9

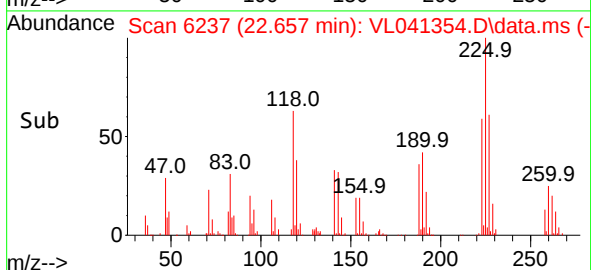
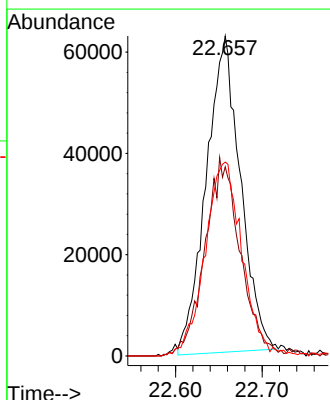
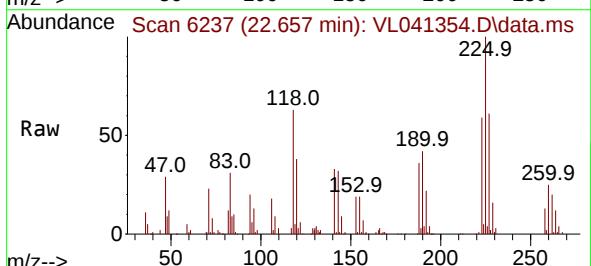
Manual Integrations  
APPROVED

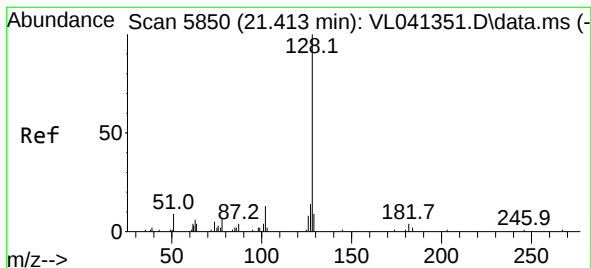
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024



#78  
Hexachloro-1,3-Butadiene  
Concen: 1.112 ppbv  
RT: 22.657 min Scan# 6237  
Delta R.T. -0.003 min  
Lab File: VL041354.D  
Acq: 26 Jun 2024 10:13

Tgt Ion:225 Resp: 171714  
Ion Ratio Lower Upper  
225 100  
223 66.1 51.3 76.9  
227 66.7 51.8 77.8





#79

Naphthalene

Concen: 0.686 ppbv m

RT: 21.419 min Scan# 5850

Delta R.T. 0.006 min

Lab File: VL041354.D

Acq: 26 Jun 2024 10:13

Instrument :

MSVOA\_L

ClientSampleId :

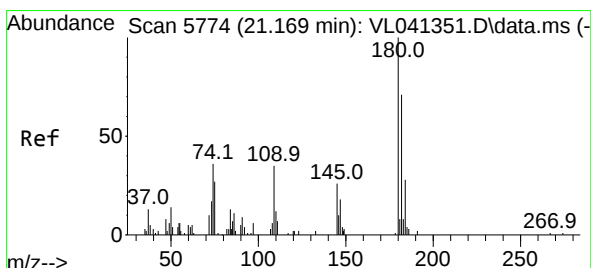
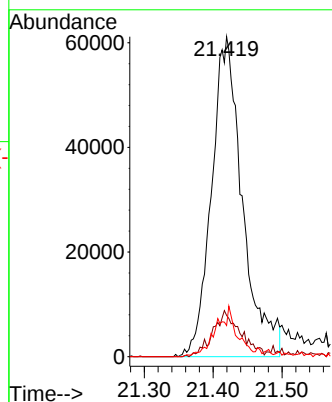
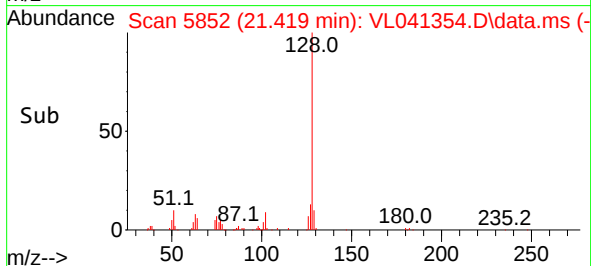
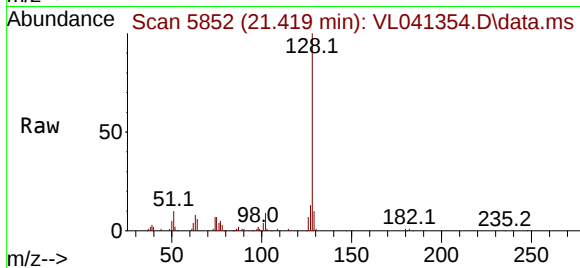
VSTDICC001

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 19082 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 127       | 12.9  | 10.8  | 16.2  |
| 129       | 9.8   | 9.0   | 13.4  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024



#81

1,2,4-Trichlorobenzene

Concen: 0.754 ppbv m

RT: 21.172 min Scan# 5775

Delta R.T. 0.000 min

Lab File: VL041354.D

Acq: 26 Jun 2024 10:13

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 180   | Resp: | 116921 |
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 0.0   | 78.1  | 117.1# |
| 184       | 0.0   | 25.2  | 37.8#  |

