

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL062624\  
 Data File : VL041353.D  
 Acq On : 26 Jun 2024 9:33  
 Operator : SY/MD  
 Sample : VSTDICC002  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002

Manual Integrations  
 APPROVED

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

Quant Time: Jun 26 10:03:17 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   | 5.201  | 49   | 1103738  | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.664  | 114  | 2955845  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 11.484 | 117  | 2842646  | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.790 95 2032676 9.261 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 92.600%

Target Compounds

|                               |       |     |        |       |        | Qvalue |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.735 | 85  | 385664 | 2.188 | ppbv   | 99     |
| 3) Chlorodifluoromethane      | 2.681 | 51  | 420339 | 2.410 | ppbv   | 99     |
| 4) Chloromethane              | 2.819 | 50  | 161055 | 2.453 | ppbv   | 94     |
| 5) Vinyl Chloride             | 2.925 | 62  | 163742 | 2.476 | ppbv   | 98     |
| 6) Bromomethane               | 3.128 | 94  | 56481  | 2.402 | ppbv   | 96     |
| 7) Chloroethane               | 3.205 | 64  | 58242  | 2.558 | ppbv   | 99     |
| 8) Dichlorotetrafluoroethane  | 2.864 | 85  | 392982 | 2.424 | ppbv   | 97     |
| 9) Propene                    | 2.700 | 41  | 138274 | 2.226 | ppbv   | 94     |
| 10) Heptane                   | 7.590 | 43  | 343882 | 2.335 | ppbv   | 98     |
| 11) Trichlorofluoromethane    | 3.568 | 101 | 406466 | 2.509 | ppbv   | 100    |
| 12) 1,1,2-Trichlorotrifluo... | 4.076 | 101 | 283262 | 2.475 | ppbv   | 100    |
| 13) Ethanol                   | 3.259 | 45  | 40630  | 2.514 | ppbv   | 83     |
| 14) Bromoethene               | 3.372 | 108 | 110039 | 2.376 | ppbv # | 89     |
| 15) Acetone                   | 3.481 | 43  | 337770 | 2.680 | ppbv   | 99     |
| 16) 1,3-Butadiene             | 2.993 | 39  | 163750 | 2.585 | ppbv   | 98     |
| 17) tert-Butyl alcohol        | 3.890 | 59  | 270878 | 2.335 | ppbv   | 98     |
| 18) 1,1-Dichloroethene        | 3.890 | 96  | 122850 | 2.516 | ppbv   | 90     |
| 19) Isopropyl Alcohol         | 3.587 | 45  | 202686 | 2.560 | ppbv # | 97     |
| 20) Methylene Chloride        | 3.941 | 84  | 117951 | 2.575 | ppbv   | 92     |
| 21) Allyl Chloride            | 4.005 | 41  | 195465 | 2.448 | ppbv   | 98     |
| 22) trans-1,2-Dichloroethene  | 4.459 | 96  | 123502 | 2.427 | ppbv   | 89     |
| 23) Vinyl Acetate             | 4.636 | 43  | 326031 | 2.530 | ppbv   | 99     |
| 24) 1,1-Dichloroethane        | 4.574 | 63  | 277829 | 2.450 | ppbv   | 98     |
| 25) Ethyl Acetate             | 5.218 | 43  | 606856 | 2.434 | ppbv   | 99     |
| 26) Hexane                    | 5.224 | 57  | 267171 | 2.383 | ppbv   | 96     |
| 27) Carbon Disulfide          | 4.134 | 76  | 325836 | 2.624 | ppbv   | 98     |
| 28) Methyl tert-Butyl Ether   | 4.600 | 73  | 197031 | 2.371 | ppbv   | 99     |
| 29) Chloroform                | 5.282 | 83  | 400284 | 2.327 | ppbv   | 95     |
| 30) Cyclohexane               | 6.613 | 84  | 214926 | 2.365 | ppbv   | 94     |
| 31) cis-1,2-Dichloroethene    | 5.089 | 61  | 252868 | 2.387 | ppbv   | 98     |
| 32) 1,1,1-Trichloroethane     | 6.012 | 97  | 386837 | 2.374 | ppbv   | 99     |
| 34) 2-Butanone                | 4.803 | 43  | 353585 | 2.497 | ppbv   | 98     |
| 35) Carbon Tetrachloride      | 6.507 | 117 | 410281 | 2.442 | ppbv   | 95     |
| 36) Benzene                   | 6.381 | 78  | 548004 | 2.392 | ppbv   | 96     |
| 37) 1,2-Dichloroethane        | 5.819 | 62  | 304601 | 2.280 | ppbv   | 100    |
| 38) Trichloroethene           | 7.304 | 130 | 209972 | 2.261 | ppbv   | 99     |
| 39) 1,2-Dichloropropane       | 7.089 | 63  | 213761 | 2.343 | ppbv   | 91     |
| 40) 1,4-Dioxane               | 7.311 | 88  | 70156  | 2.100 | ppbv # | 1      |
| 41) Tetrahydrofuran           | 5.578 | 42  | 212998 | 2.312 | ppbv   | 96     |
| 42) Bromodichloromethane      | 7.262 | 83  | 437687 | 2.282 | ppbv   | 100    |
| 43) Methyl Methacrylate       | 7.491 | 69  | 207813 | 2.381 | ppbv   | 99     |
| 44) 2,2,4-Trimethylpentane    | 7.336 | 57  | 952935 | 2.418 | ppbv   | 98     |
| 45) t-1,3-Dichloropropene     | 8.725 | 75  | 131409 | 2.231 | ppbv   | 98     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL062624\  
 Data File : VL041353.D  
 Acq On : 26 Jun 2024 9:33  
 Operator : SY/MD  
 Sample : VSTDICC002  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002

Manual Integrations  
 APPROVED

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

Quant Time: Jun 26 10:03:17 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

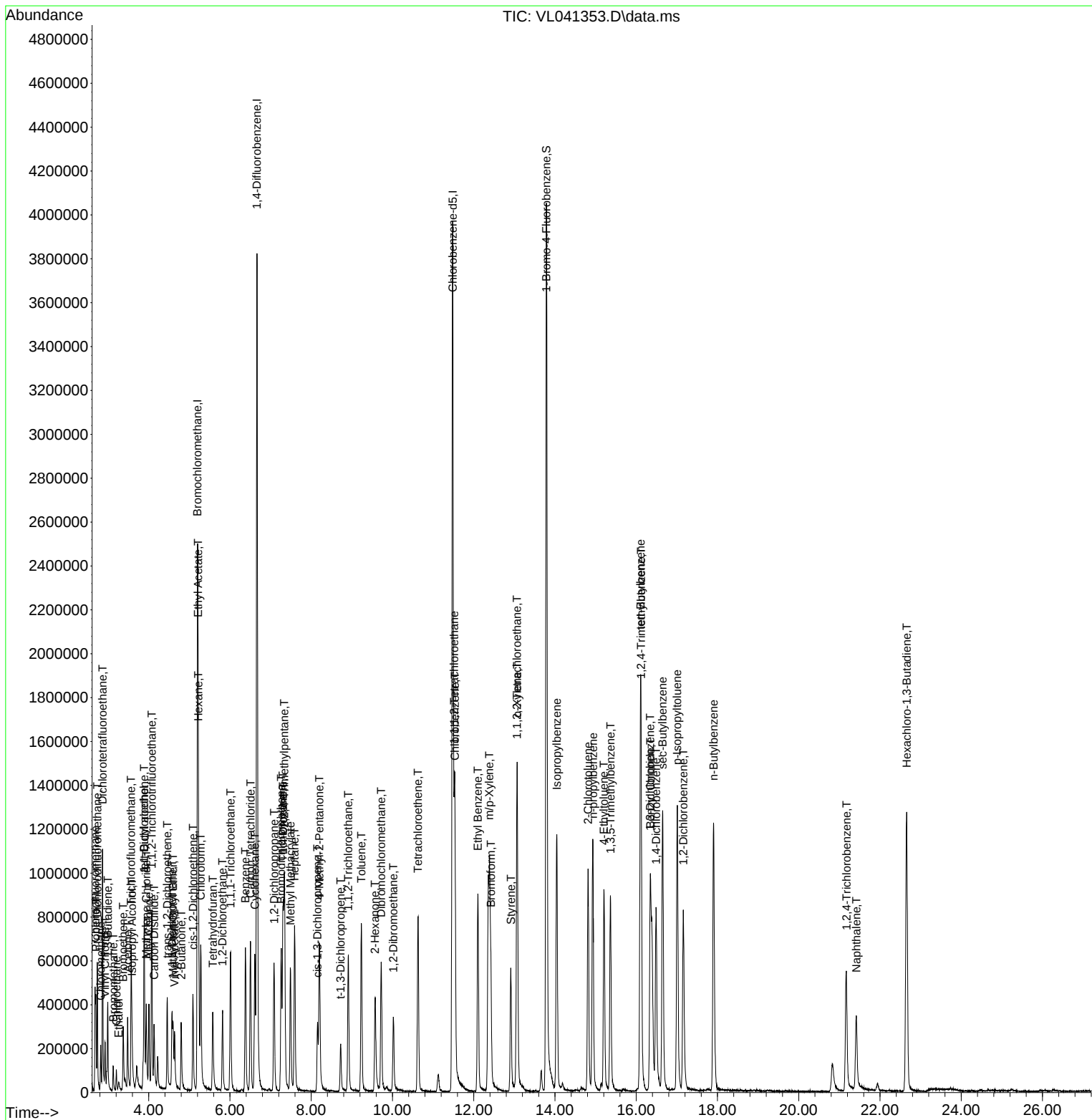
Response via : Initial Calibration

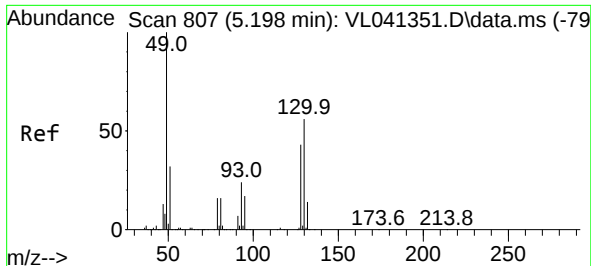
| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.156  | 75   | 178617   | 2.356 | ppbv   | 94       |
| 47) 1,1,2-Trichloroethane     | 8.915  | 97   | 221722m  | 2.326 | ppbv   |          |
| 48) Dibromochloromethane      | 9.722  | 129  | 366878   | 2.335 | ppbv   | 100      |
| 49) Bromoform                 | 12.423 | 173  | 289680   | 2.288 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.201  | 43   | 589141   | 2.513 | ppbv   | 99       |
| 51) 2-Hexanone                | 9.571  | 43   | 430827   | 2.586 | ppbv # | 99       |
| 52) Tetrachloroethene         | 10.629 | 164  | 197734   | 2.367 | ppbv   | 96       |
| 53) Toluene                   | 9.237  | 91   | 628880   | 2.386 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 10.021 | 107  | 284321   | 2.288 | ppbv   | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 11.523 | 131  | 278410   | 2.316 | ppbv # | 1        |
| 57) Chlorobenzene             | 11.539 | 112  | 491228m  | 2.326 | ppbv   |          |
| 58) Ethyl Benzene             | 12.105 | 91   | 853495   | 2.342 | ppbv   | 97       |
| 59) m/p-Xylene                | 12.384 | 91   | 1472492m | 4.717 | ppbv   |          |
| 60) o-Xylene                  | 13.069 | 91   | 697629   | 2.344 | ppbv   | 99       |
| 61) Styrene                   | 12.915 | 104  | 336779   | 2.308 | ppbv   | 98       |
| 62) Isopropylbenzene          | 14.044 | 105  | 1068148  | 2.373 | ppbv   | 98       |
| 63) 1,1,2,2-Tetrachloroethane | 13.063 | 83   | 496501   | 2.345 | ppbv   | 98       |
| 64) n-propylbenzene           | 14.937 | 120  | 280106m  | 2.415 | ppbv   |          |
| 65) tert-Butylbenzene         | 16.108 | 119  | 968993   | 2.422 | ppbv   | 99       |
| 66) Benzyl Chloride           | 16.349 | 91   | 64112m   | 2.435 | ppbv   |          |
| 67) sec-Butylbenzene          | 16.648 | 105  | 1379484  | 2.440 | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 17.008 | 119  | 1145473  | 2.459 | ppbv   | 99       |
| 70) n-Butylbenzene            | 17.905 | 91   | 1166711  | 2.414 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 14.815 | 91   | 798779   | 2.319 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 15.204 | 105  | 837214   | 2.415 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 15.368 | 105  | 695292   | 2.310 | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.121 | 105  | 801857   | 2.356 | ppbv   | 93       |
| 75) 1,3-Dichlorobenzene       | 16.346 | 146  | 471761   | 2.361 | ppbv   | 97       |
| 76) 1,4-Dichlorobenzene       | 16.490 | 146  | 459787m  | 2.303 | ppbv   |          |
| 77) 1,2-Dichlorobenzene       | 17.159 | 146  | 473920   | 2.370 | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 22.657 | 225  | 359431   | 2.193 | ppbv   | 99       |
| 79) Naphthalene               | 21.419 | 128  | 446391   | 1.512 | ppbv   | 96       |
| 81) 1,2,4-Trichlorobenzene    | 21.175 | 180  | 262223m  | 1.592 | ppbv   |          |

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

## Manual Integrations APPROVED

Quant Time: Jun 26 10:03:17 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL062624AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug  
QLast Update : Wed Jun 26 09:48:16 2024  
Response via : Initial Calibration





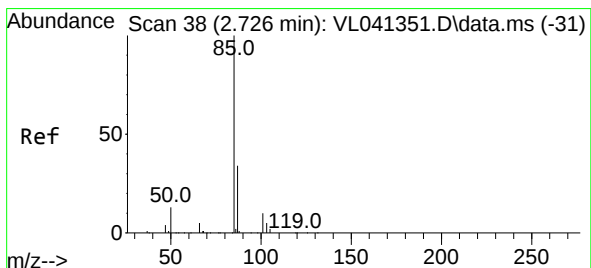
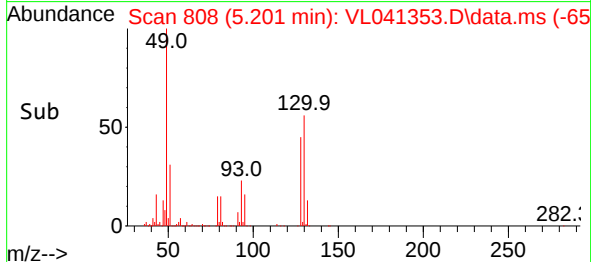
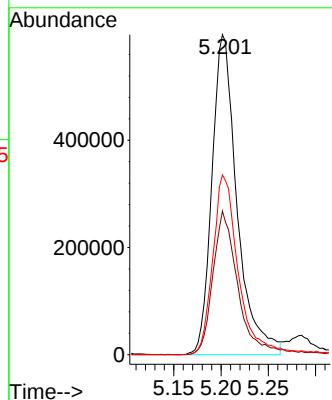
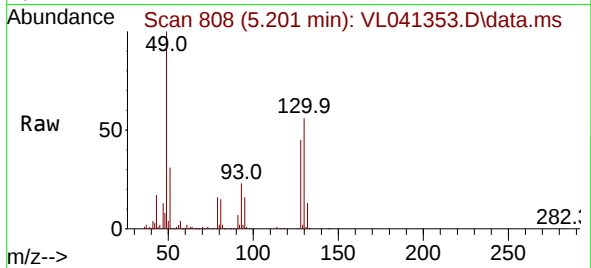
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Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.201 min Scan# 80  
Delta R.T. 0.000 min  
Lab File: VL041353.D  
Acq: 26 Jun 2024 9:33

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

Tgt Ion: 49 Resp: 1103738  
Ion Ratio Lower Upper  
49 100  
128 45.4 22.8 68.3  
130 58.7 28.9 86.7

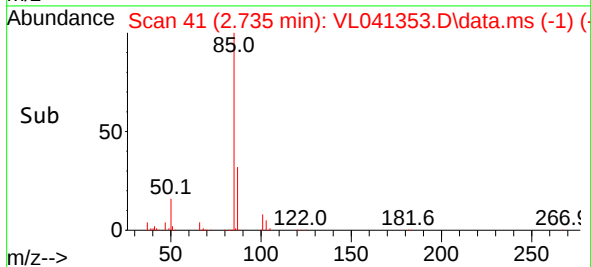
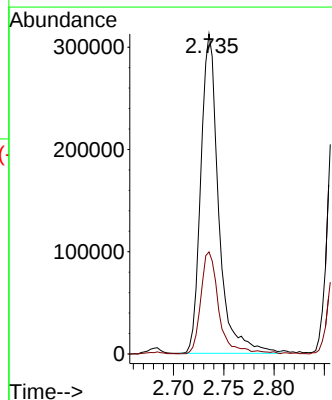
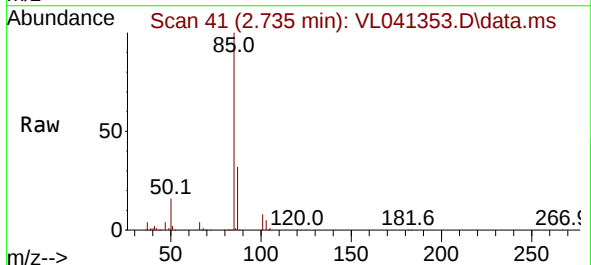
Manual Integrations  
APPROVED

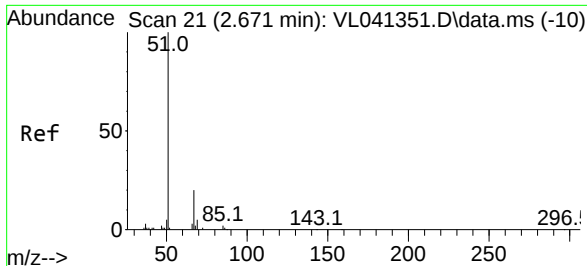
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024



#2  
Dichlorodifluoromethane  
Concen: 2.188 ppbv  
RT: 2.735 min Scan# 41  
Delta R.T. 0.006 min  
Lab File: VL041353.D  
Acq: 26 Jun 2024 9:33

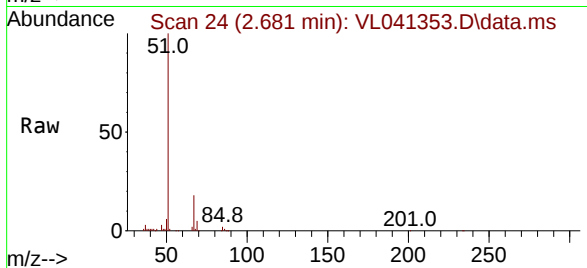
Tgt Ion: 85 Resp: 385664  
Ion Ratio Lower Upper  
85 100  
87 31.9 25.9 38.9





#3  
Chlorodifluoromethane  
Concen: 2.410 ppbv  
RT: 2.681 min Scan# 24  
Delta R.T. 0.006 min  
Lab File: VL041353.D  
Acq: 26 Jun 2024 9:33

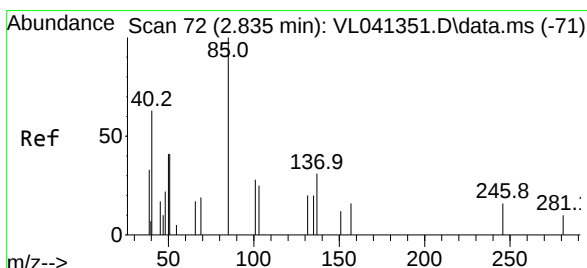
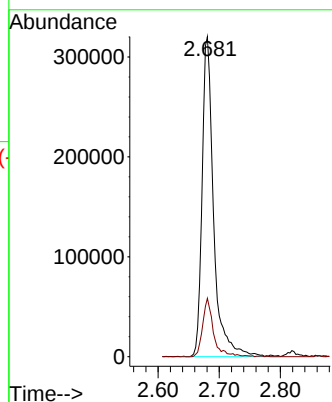
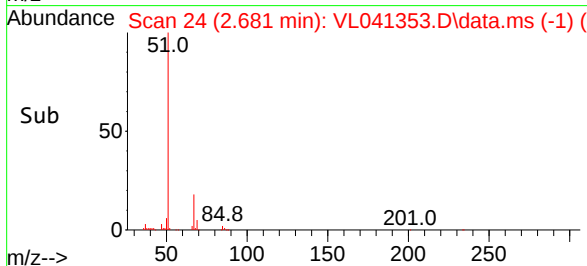
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



Tgt Ion: 51 Resp: 420339  
Ion Ratio Lower Upper  
51 100  
67 17.4 14.3 21.5

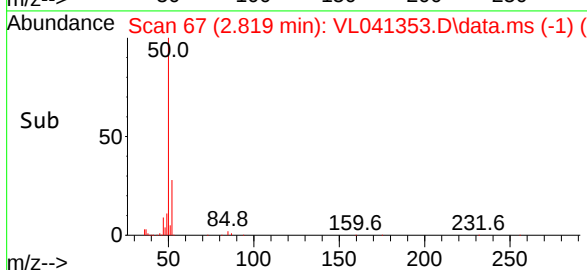
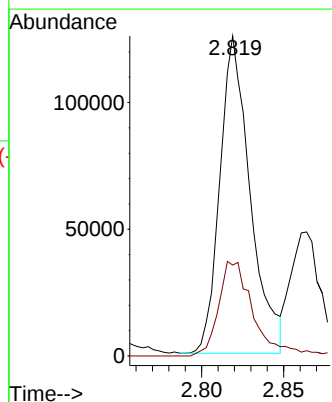
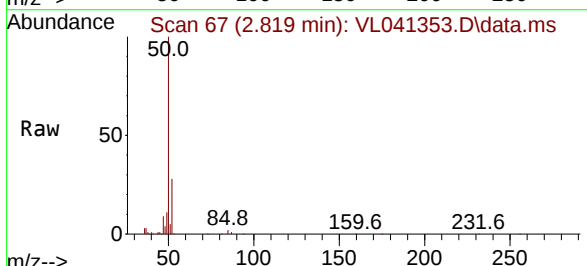
Manual Integrations  
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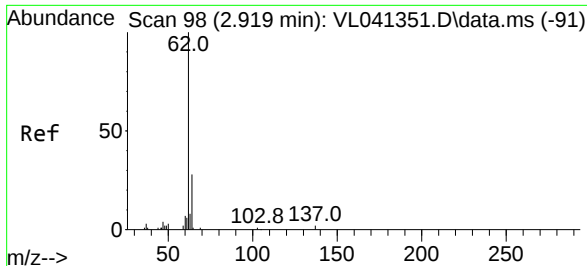
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024



#4  
Chloromethane  
Concen: 2.453 ppbv  
RT: 2.819 min Scan# 67  
Delta R.T. 0.003 min  
Lab File: VL041353.D  
Acq: 26 Jun 2024 9:33

Tgt Ion: 50 Resp: 161055  
Ion Ratio Lower Upper  
50 100  
52 28.6 25.6 38.4





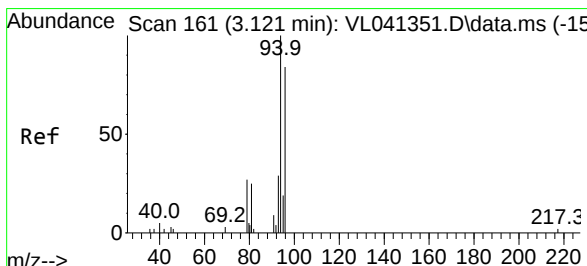
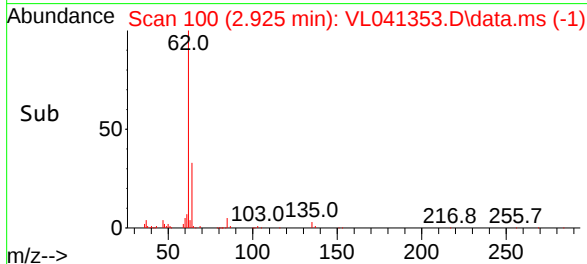
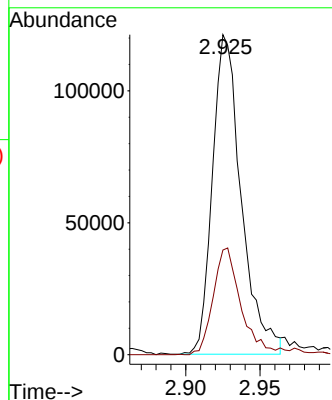
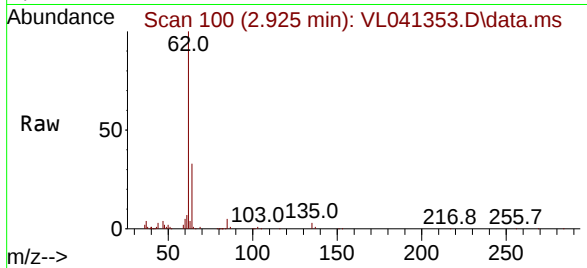
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 Vinyl Chloride  
 Concen: 2.476 ppbv  
 RT: 2.925 min Scan# 100  
 Delta R.T. 0.003 min  
 Lab File: VL041353.D  
 Acq: 26 Jun 2024 9:33

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002

Tgt Ion: 62 Resp: 16374  
 Ion Ratio Lower Upper  
 62 100  
 64 32.6 25.0 37.6

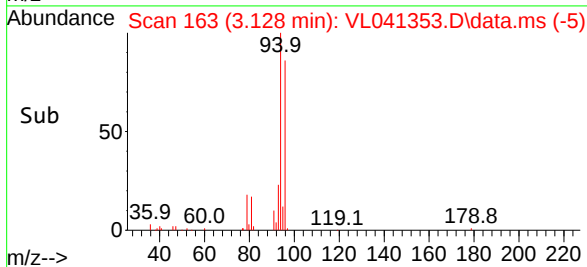
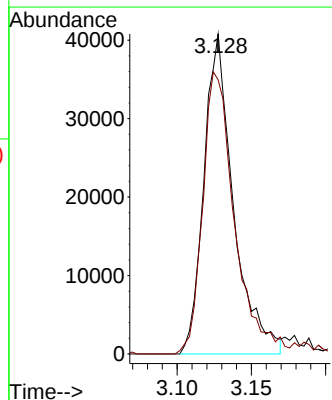
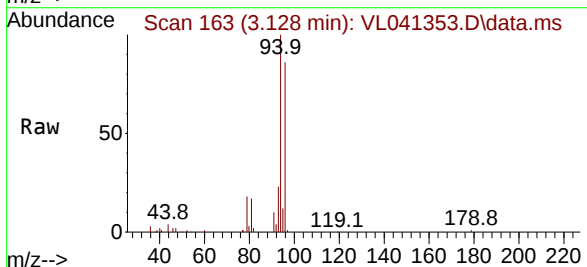
Manual Integrations  
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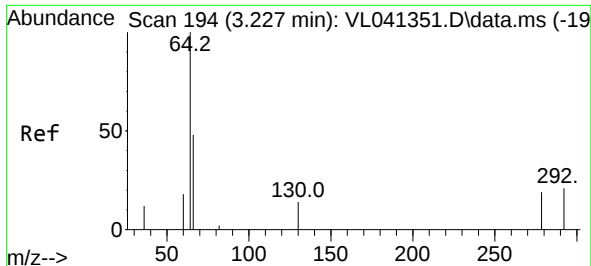
Reviewed By :Semsettin Yesilyurt 06/27/2024  
 Supervised By :Mahesh Dadoda 06/27/2024



#6  
 Bromomethane  
 Concen: 2.402 ppbv  
 RT: 3.128 min Scan# 163  
 Delta R.T. 0.006 min  
 Lab File: VL041353.D  
 Acq: 26 Jun 2024 9:33

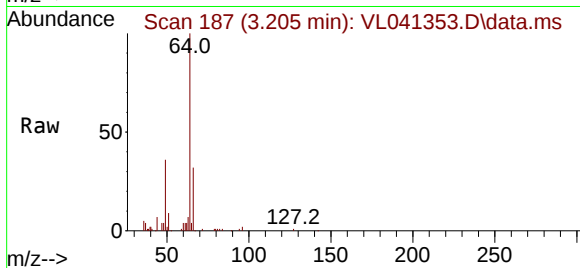
Tgt Ion: 94 Resp: 56481  
 Ion Ratio Lower Upper  
 94 100  
 96 84.6 71.0 106.4





#7  
Chloroethane  
Concen: 2.558 ppbv  
RT: 3.205 min Scan# 11  
Delta R.T. 0.003 min  
Lab File: VL041353.D  
Acq: 26 Jun 2024 9:33

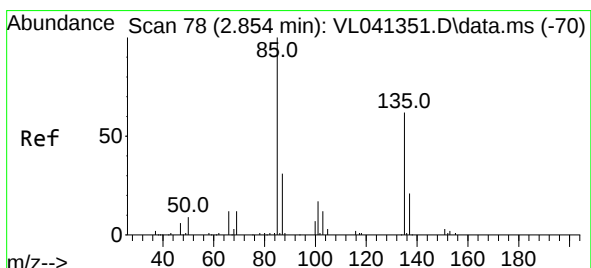
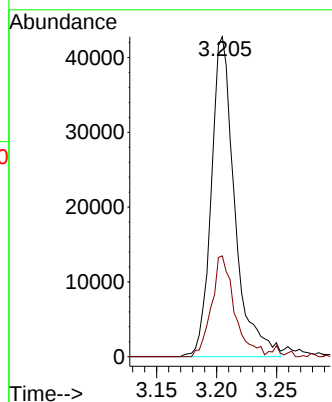
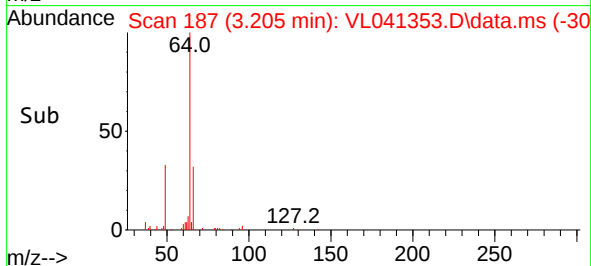
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002



Tgt Ion: 64 Resp: 5824  
Ion Ratio Lower Upper  
64 100  
66 31.5 24.6 36.8

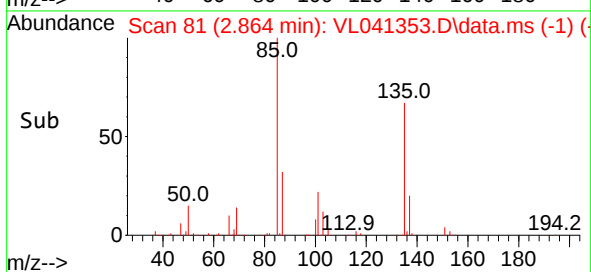
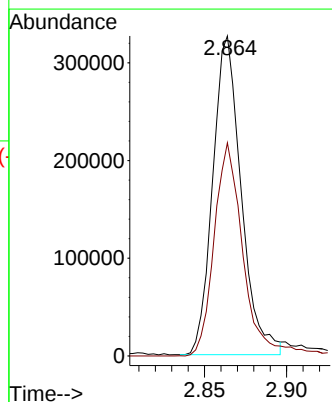
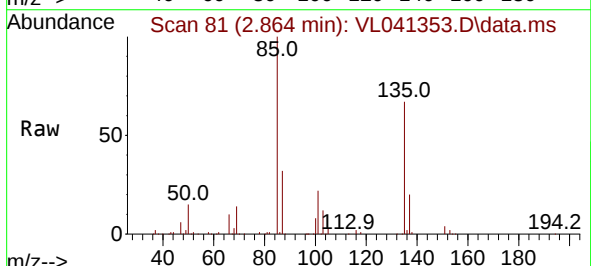
Manual Integrations  
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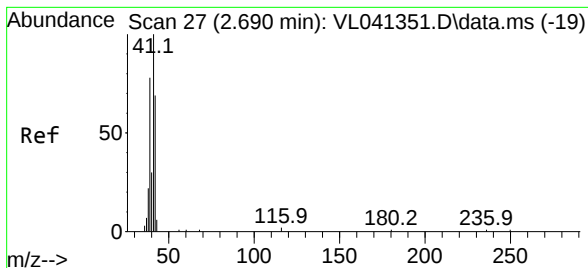
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024



#8  
Dichlorotetrafluoroethane  
Concen: 2.424 ppbv  
RT: 2.864 min Scan# 81  
Delta R.T. 0.006 min  
Lab File: VL041353.D  
Acq: 26 Jun 2024 9:33

Tgt Ion: 85 Resp: 392982  
Ion Ratio Lower Upper  
85 100  
135 69.8 53.7 80.5





#9

Propene

Concen: 2.226 ppbv

RT: 2.700 min Scan# 30

Delta R.T. 0.006 min

Lab File: VL041353.D

Acq: 26 Jun 2024 9:33

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

Tgt Ion: 41 Resp: 138274

Ion Ratio Lower Upper

41 100

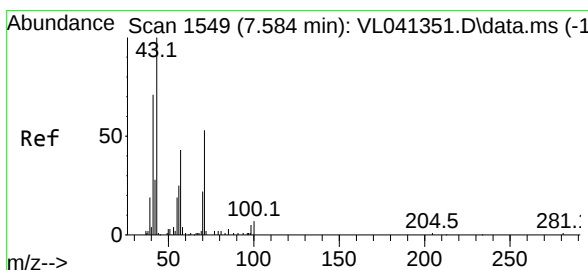
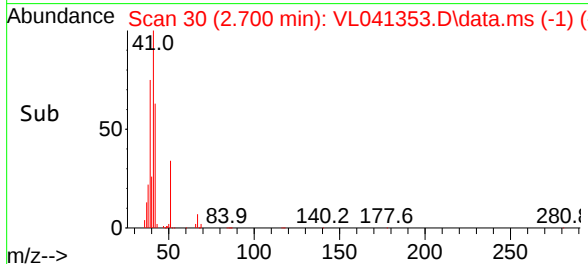
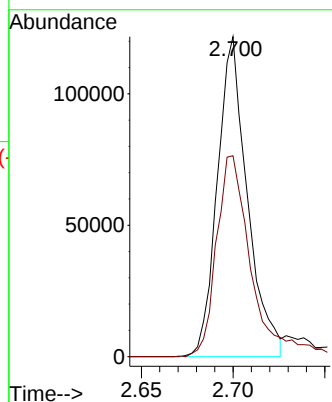
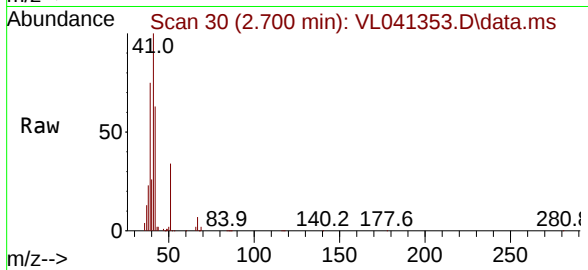
42 74.4 55.8 83.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/27/2024

Supervised By :Mahesh Dadoda 06/27/2024



#10

Heptane

Concen: 2.335 ppbv

RT: 7.590 min Scan# 1551

Delta R.T. -0.003 min

Lab File: VL041353.D

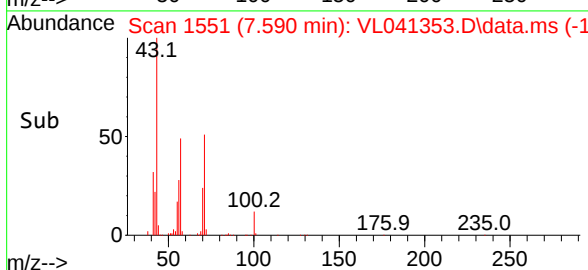
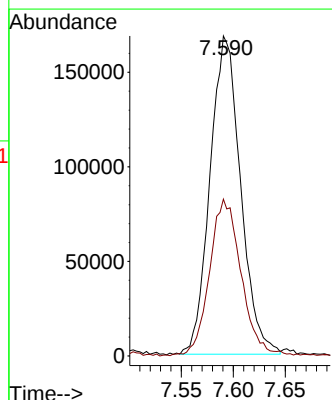
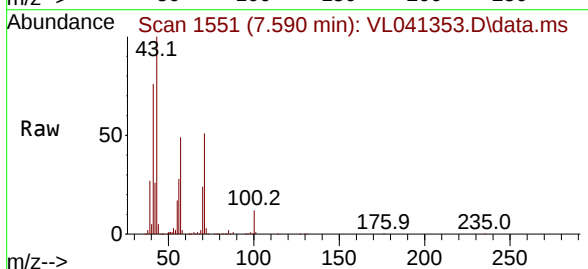
Acq: 26 Jun 2024 9:33

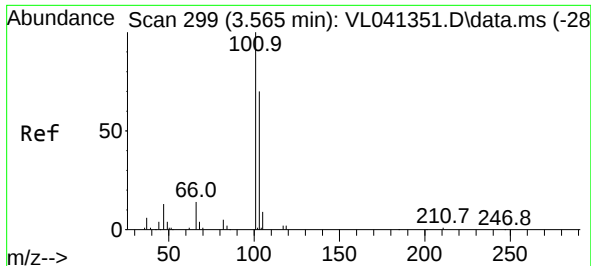
Tgt Ion: 43 Resp: 343882

Ion Ratio Lower Upper

43 100

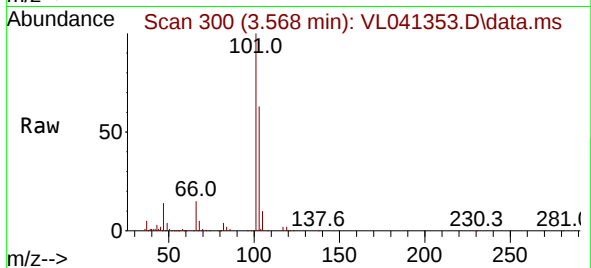
57 51.5 40.3 60.5





#11  
Trichlorofluoromethane  
Concen: 2.509 ppbv  
RT: 3.568 min Scan# 300  
Delta R.T. 0.000 min  
Lab File: VL041353.D  
Acq: 26 Jun 2024 9:33

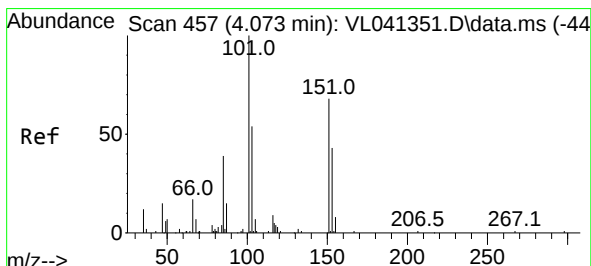
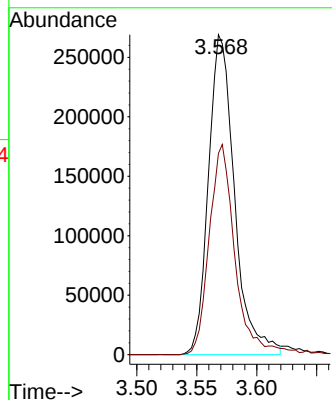
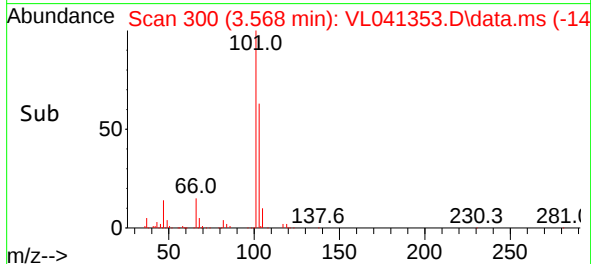
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



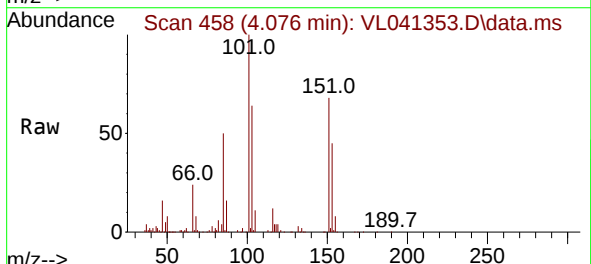
Tgt Ion:101 Resp: 406460  
Ion Ratio Lower Upper  
101 100  
103 62.9 50.5 75.7

Manual Integrations  
APPROVED

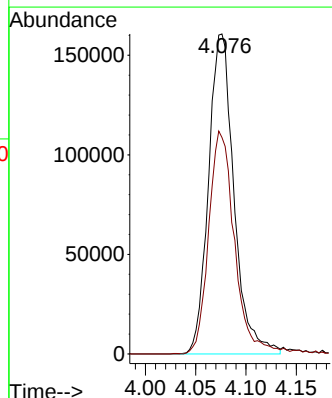
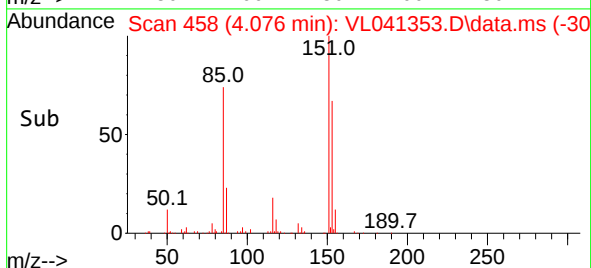
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024

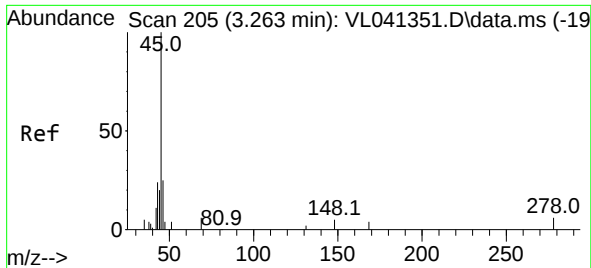


#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 2.475 ppbv  
RT: 4.076 min Scan# 458  
Delta R.T. 0.006 min  
Lab File: VL041353.D  
Acq: 26 Jun 2024 9:33



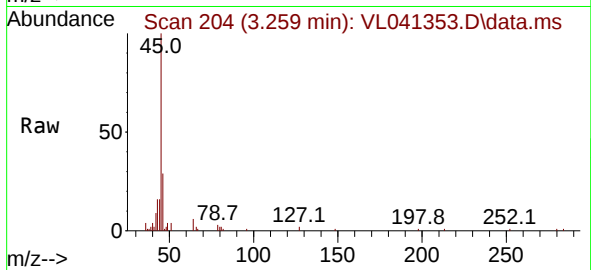
Tgt Ion:101 Resp: 283262  
Ion Ratio Lower Upper  
101 100  
151 71.6 57.0 85.6





#13  
Ethanol  
Concen: 2.514 ppbv  
RT: 3.259 min Scan# 205  
Delta R.T. 0.010 min  
Lab File: VL041353.D  
Acq: 26 Jun 2024 9:33

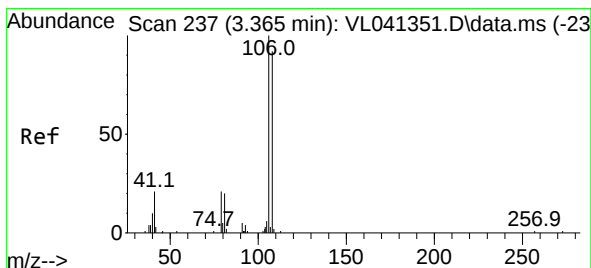
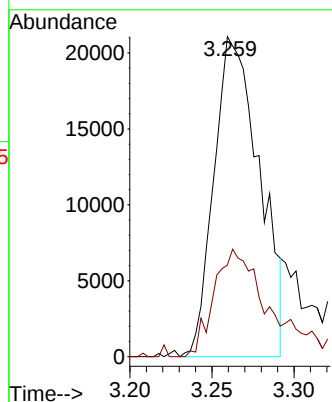
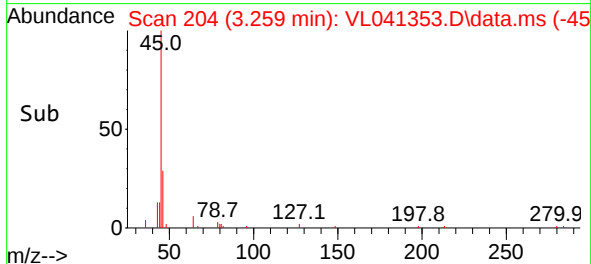
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002



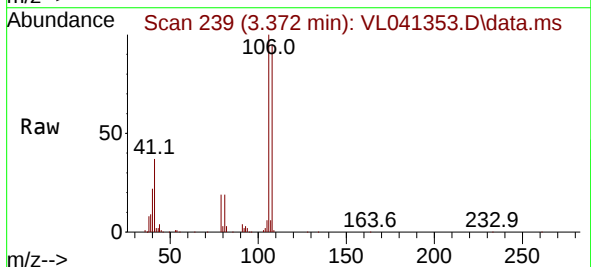
Tgt Ion: 45 Resp: 40630  
Ion Ratio Lower Upper  
45 100  
46 42.7 13.3 53.3

Manual Integrations  
APPROVED

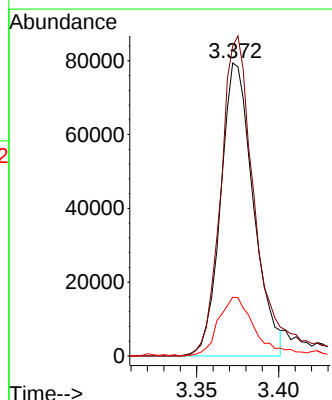
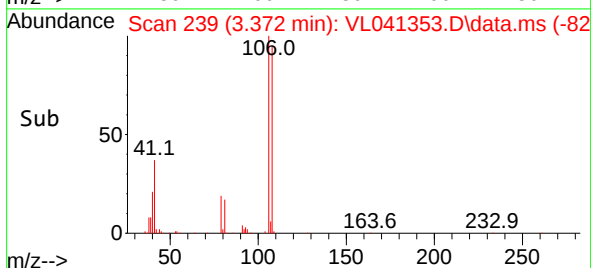
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024

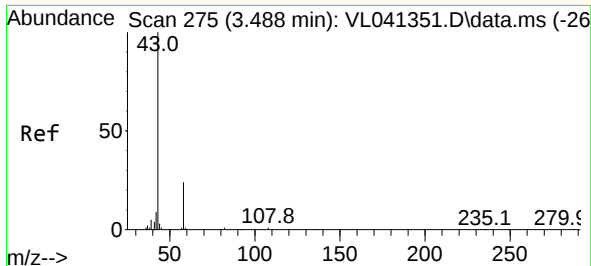


#14  
Bromoethene  
Concen: 2.376 ppbv  
RT: 3.372 min Scan# 239  
Delta R.T. 0.003 min  
Lab File: VL041353.D  
Acq: 26 Jun 2024 9:33



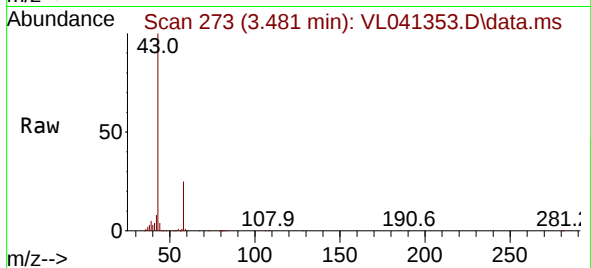
Tgt Ion:108 Resp: 110039  
Ion Ratio Lower Upper  
108 100  
106 118.0 85.5 128.3  
79 25.2 16.3 24.5#





#15  
Acetone  
Concen: 2.680 ppbv  
RT: 3.481 min Scan# 21  
Delta R.T. 0.010 min  
Lab File: VL041353.D  
Acq: 26 Jun 2024 9:33

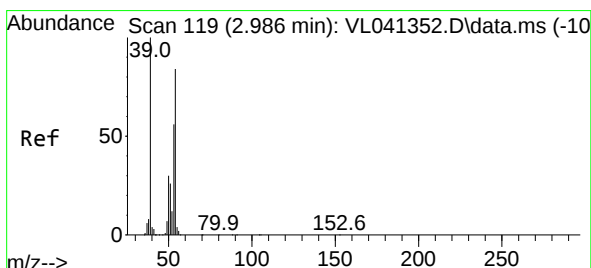
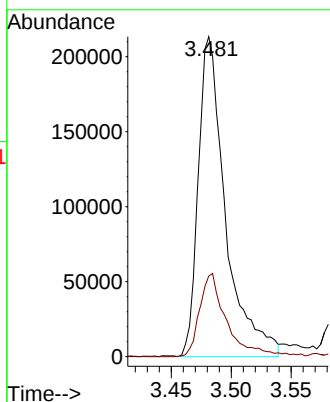
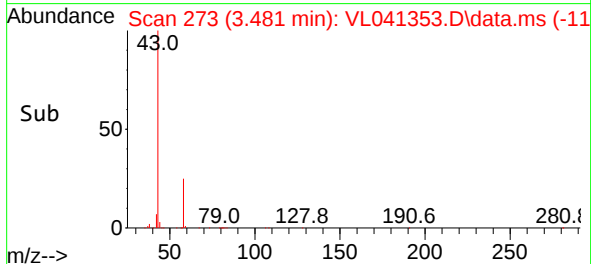
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



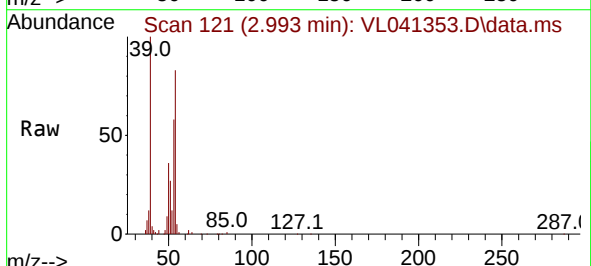
Tgt Ion: 43 Resp: 337770  
Ion Ratio Lower Upper  
43 100  
58 25.9 20.3 30.5

Manual Integrations  
APPROVED

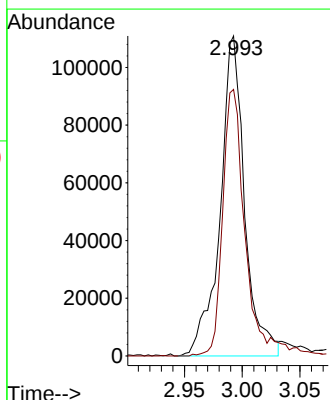
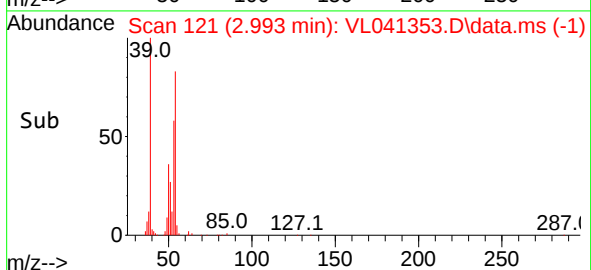
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024

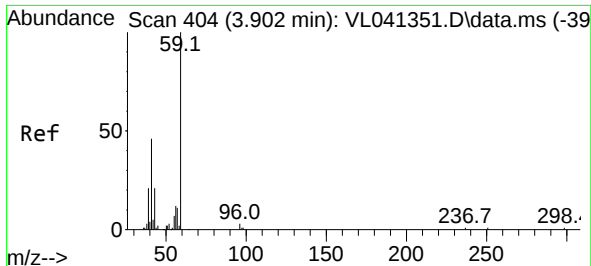


#16  
1,3-Butadiene  
Concen: 2.585 ppbv  
RT: 2.993 min Scan# 121  
Delta R.T. 0.006 min  
Lab File: VL041353.D  
Acq: 26 Jun 2024 9:33



Tgt Ion: 39 Resp: 163750  
Ion Ratio Lower Upper  
39 100  
54 77.4 60.5 90.7





#17

tert-Butyl alcohol

Concen: 2.335 ppbv

RT: 3.890 min Scan# 400

Delta R.T. 0.003 min

Lab File: VL041353.D

Acq: 26 Jun 2024 9:33

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC002

Tgt Ion: 59 Resp: 270878

Ion Ratio Lower Upper

59 100

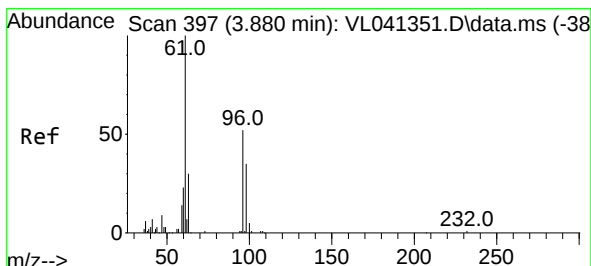
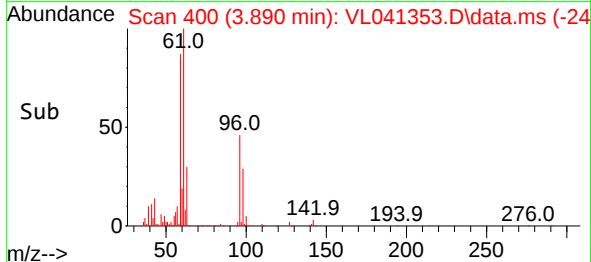
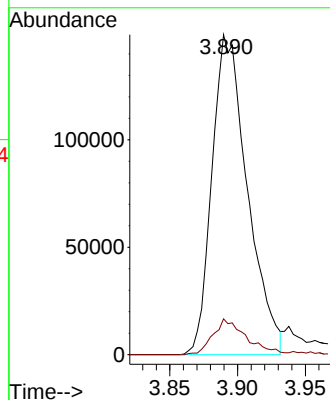
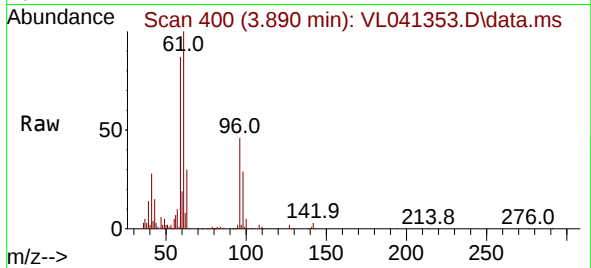
57 11.4 8.4 12.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/27/2024

Supervised By :Mahesh Dadoda 06/27/2024



#18

1,1-Dichloroethene

Concen: 2.516 ppbv

RT: 3.890 min Scan# 400

Delta R.T. 0.003 min

Lab File: VL041353.D

Acq: 26 Jun 2024 9:33

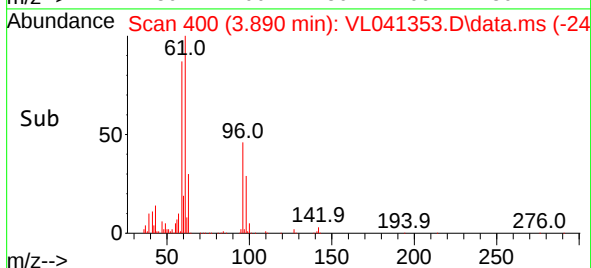
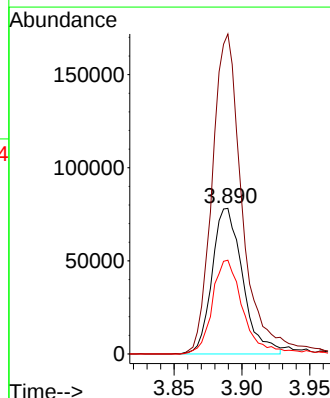
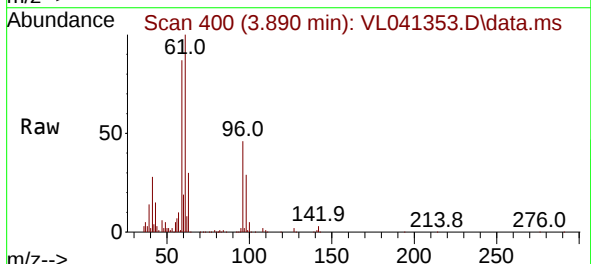
Tgt Ion: 96 Resp: 122850

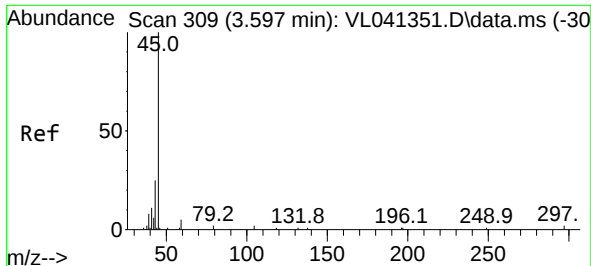
Ion Ratio Lower Upper

96 100

61 219.7 160.3 240.5

98 64.4 51.6 77.4





#19

Isopropyl Alcohol

Concen: 2.560 ppbv

RT: 3.587 min Scan# 306

Delta R.T. 0.003 min

Lab File: VL041353.D

Acq: 26 Jun 2024 9:33

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC002

Tgt Ion: 45 Resp: 202680

Ion Ratio Lower Upper

45 100

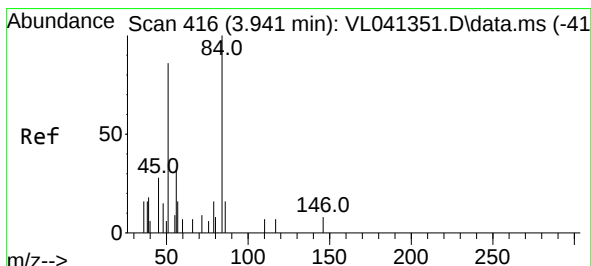
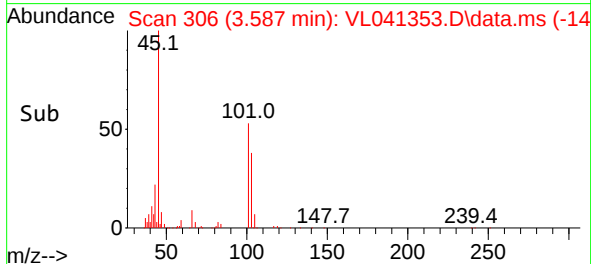
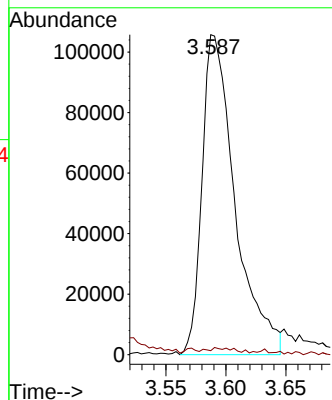
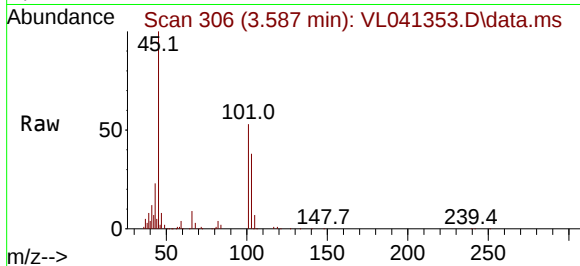
58 3.0 1.6 2.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/27/2024

Supervised By :Mahesh Dadoda 06/27/2024



#20

Methylene Chloride

Concen: 2.575 ppbv

RT: 3.941 min Scan# 416

Delta R.T. 0.003 min

Lab File: VL041353.D

Acq: 26 Jun 2024 9:33

Tgt Ion: 84 Resp: 117951

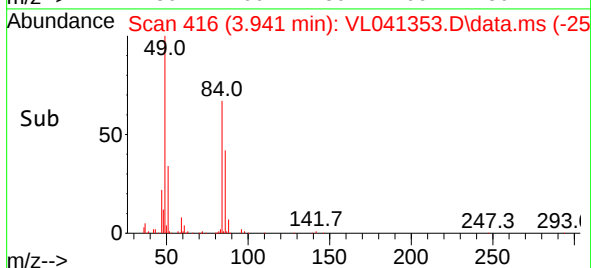
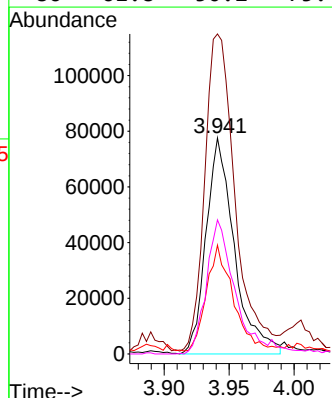
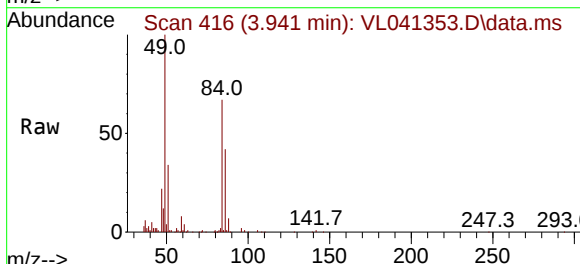
Ion Ratio Lower Upper

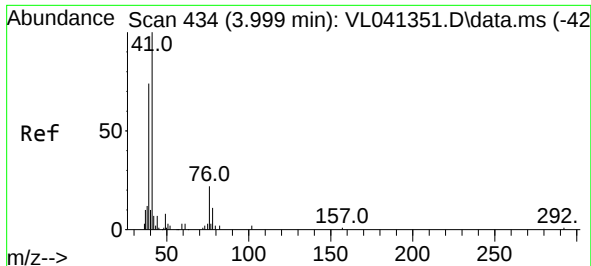
84 100

49 146.8 131.8 197.6

51 48.5 39.6 59.4

86 61.8 50.2 75.4





#21

Allyl Chloride

Concen: 2.448 ppbv

RT: 4.005 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL041353.D

Acq: 26 Jun 2024 9:33

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

Tgt Ion: 41 Resp: 19546

Ion Ratio Lower Upper

41 100

76 29.3 23.3 34.9

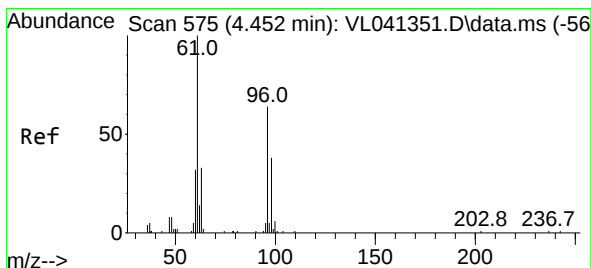
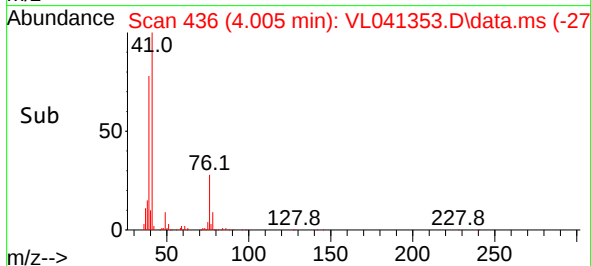
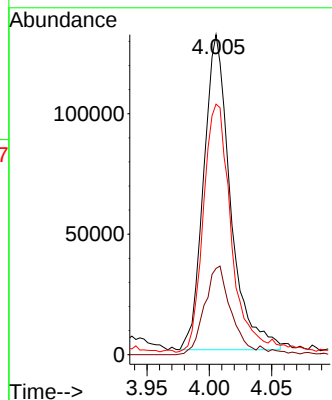
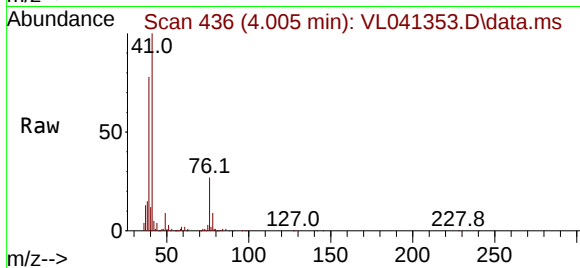
39 85.2 66.0 99.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/27/2024

Supervised By :Mahesh Dadoda 06/27/2024



#22

trans-1,2-Dichloroethene

Concen: 2.427 ppbv

RT: 4.459 min Scan# 577

Delta R.T. 0.006 min

Lab File: VL041353.D

Acq: 26 Jun 2024 9:33

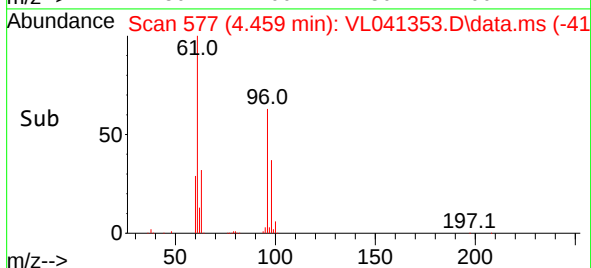
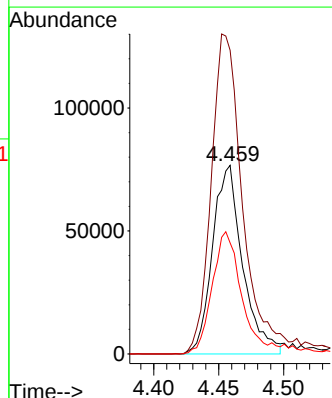
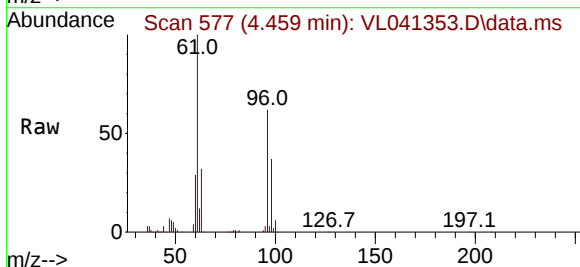
Tgt Ion: 96 Resp: 123502

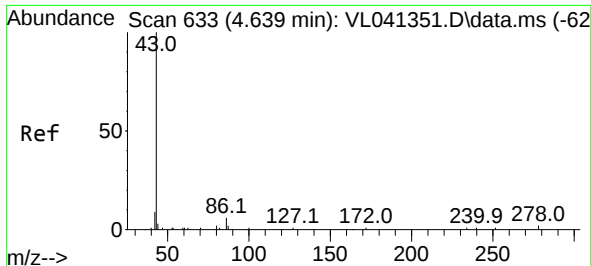
Ion Ratio Lower Upper

96 100

61 161.0 142.0 213.0

98 58.9 52.2 78.2





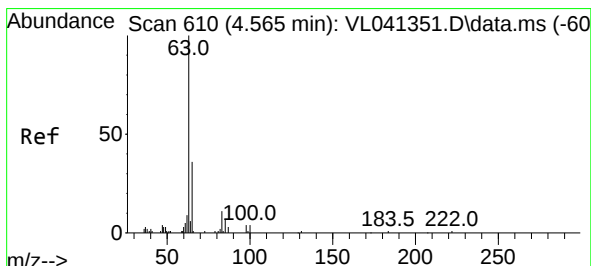
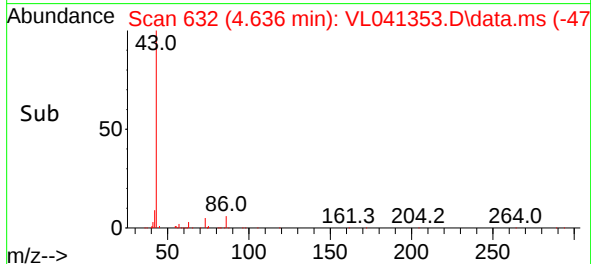
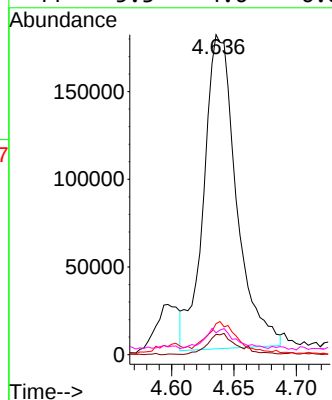
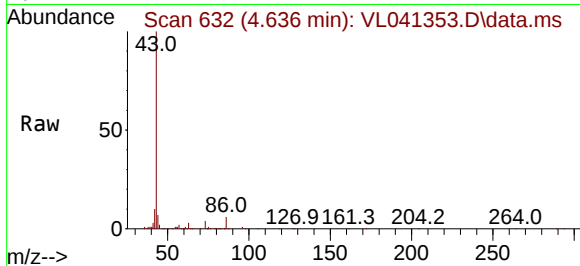
#23  
 Vinyl Acetate  
 Concen: 2.530 ppbv  
 RT: 4.636 min Scan# 613  
 Delta R.T. 0.000 min  
 Lab File: VL041353.D  
 Acq: 26 Jun 2024 9:33

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002

Tgt Ion: 43 Resp: 32603  
 Ion Ratio Lower Upper  
 43 100  
 86 6.7 5.0 7.4  
 42 9.7 7.9 11.9  
 44 5.3 4.6 6.8

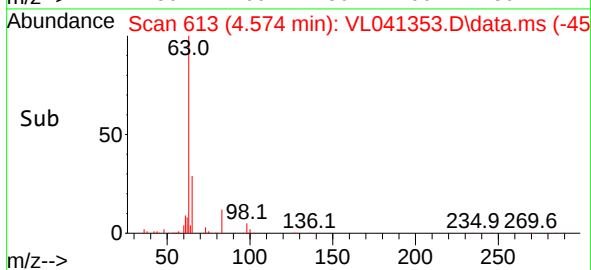
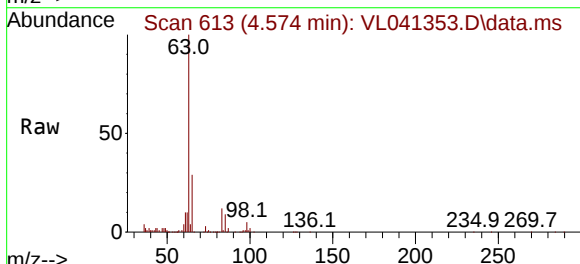
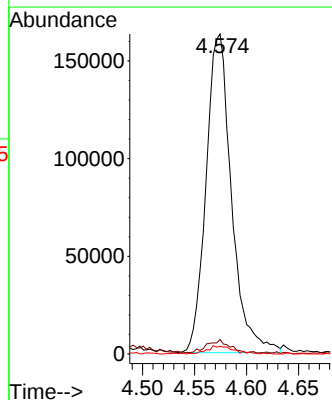
Manual Integrations  
 APPROVED

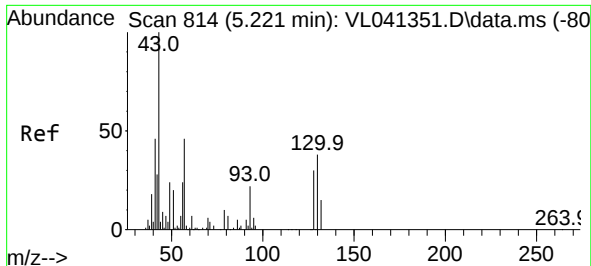
Reviewed By :Semsettin Yesilyurt 06/27/2024  
 Supervised By :Mahesh Dadoda 06/27/2024



#24  
 1,1-Dichloroethane  
 Concen: 2.450 ppbv  
 RT: 4.574 min Scan# 613  
 Delta R.T. 0.003 min  
 Lab File: VL041353.D  
 Acq: 26 Jun 2024 9:33

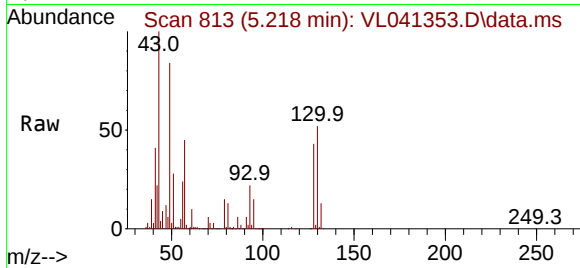
Tgt Ion: 63 Resp: 277829  
 Ion Ratio Lower Upper  
 63 100  
 98 4.4 1.8 5.4  
 100 2.3 1.1 3.3





#25  
Ethyl Acetate  
Concen: 2.434 ppbv  
RT: 5.218 min Scan# 814  
Delta R.T. 0.003 min  
Lab File: VL041353.D  
Acq: 26 Jun 2024 9:33

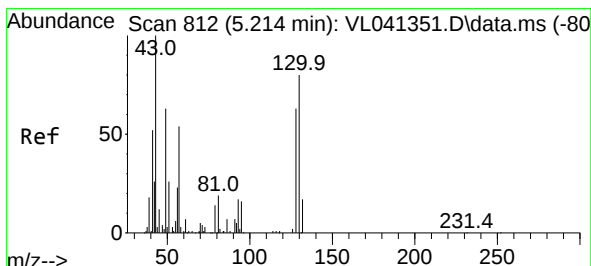
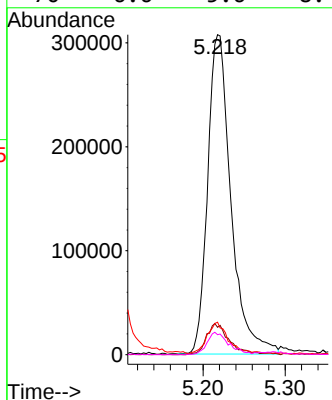
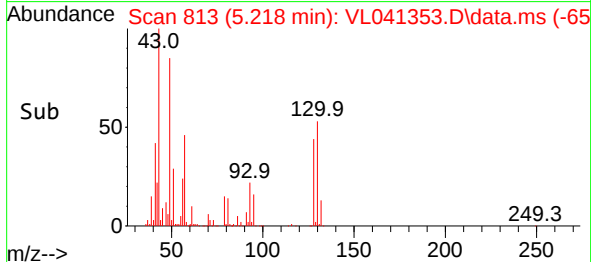
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



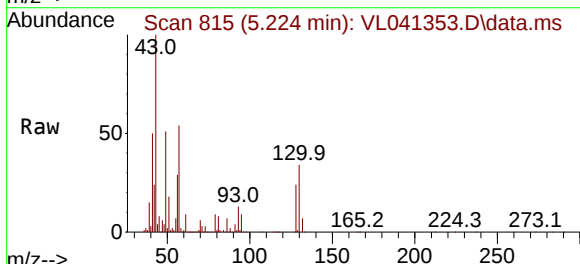
| Tgt Ion:  | 43  | Resp: | 60685 |
|-----------|-----|-------|-------|
| Ion Ratio | 100 | Lower | Upper |
| 43        | 100 |       |       |
| 45        | 9.7 | 8.3   | 12.5  |
| 61        | 9.4 | 7.7   | 11.5  |
| 70        | 6.6 | 5.6   | 8.4   |

Manual Integrations  
APPROVED

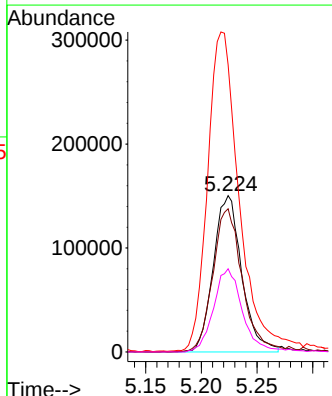
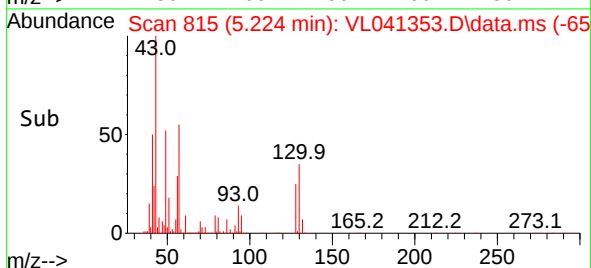
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024

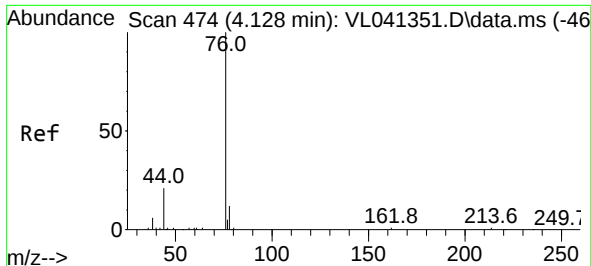


#26  
Hexane  
Concen: 2.383 ppbv  
RT: 5.224 min Scan# 815  
Delta R.T. 0.003 min  
Lab File: VL041353.D  
Acq: 26 Jun 2024 9:33



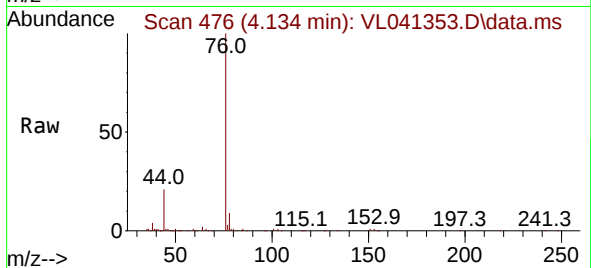
| Tgt Ion:  | 57    | Resp: | 267171 |
|-----------|-------|-------|--------|
| Ion Ratio | 100   | Lower | Upper  |
| 57        | 100   |       |        |
| 41        | 97.9  | 73.7  | 110.5  |
| 43        | 233.7 | 182.2 | 273.2  |
| 56        | 54.6  | 41.8  | 62.6   |





#27  
Carbon Disulfide  
Concen: 2.624 ppbv  
RT: 4.134 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VL041353.D  
Acq: 26 Jun 2024 9:33

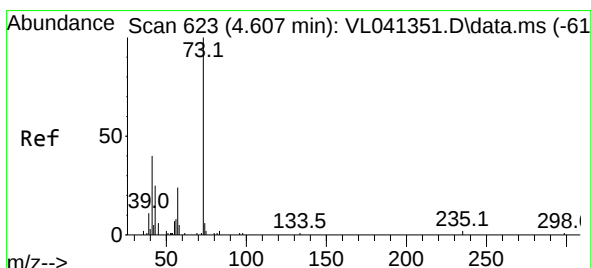
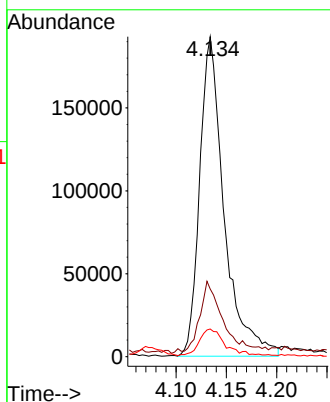
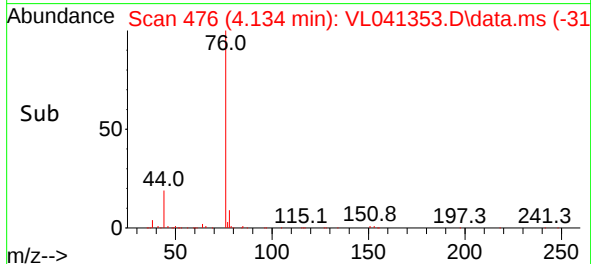
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



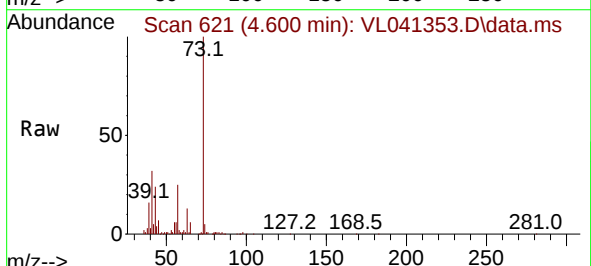
Tgt Ion: 76 Resp: 325830  
Ion Ratio Lower Upper  
76 100  
44 22.2 17.4 26.2  
78 10.7 7.3 10.9

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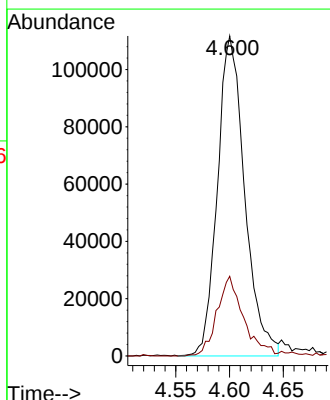
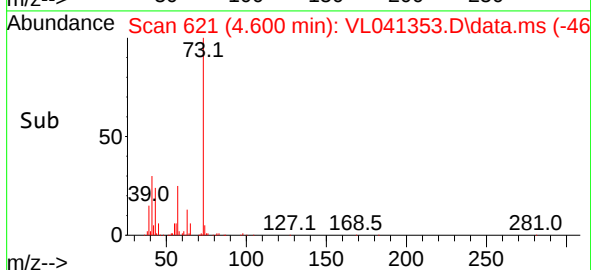
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024

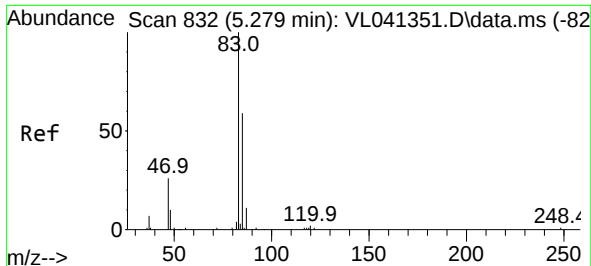


#28  
Methyl tert-Butyl Ether  
Concen: 2.371 ppbv  
RT: 4.600 min Scan# 621  
Delta R.T. 0.006 min  
Lab File: VL041353.D  
Acq: 26 Jun 2024 9:33



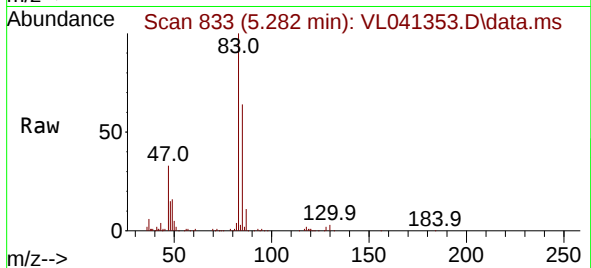
Tgt Ion: 73 Resp: 197031  
Ion Ratio Lower Upper  
73 100  
57 25.4 19.9 29.9





#29  
Chloroform  
Concen: 2.327 ppbv  
RT: 5.282 min Scan# 81  
Delta R.T. -0.003 min  
Lab File: VL041353.D  
Acq: 26 Jun 2024 9:33

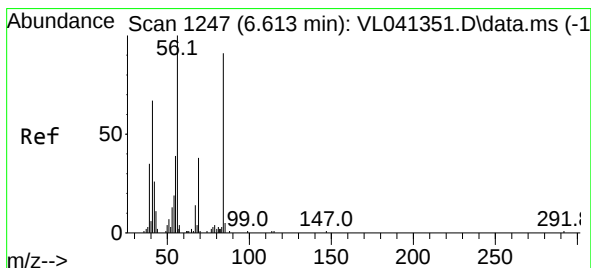
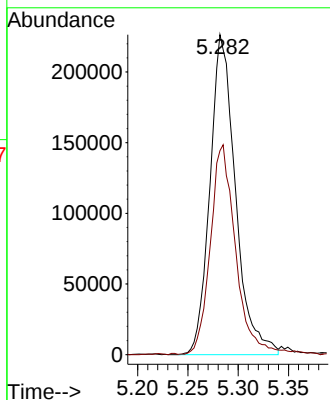
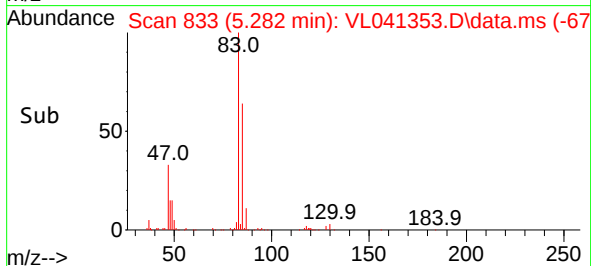
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



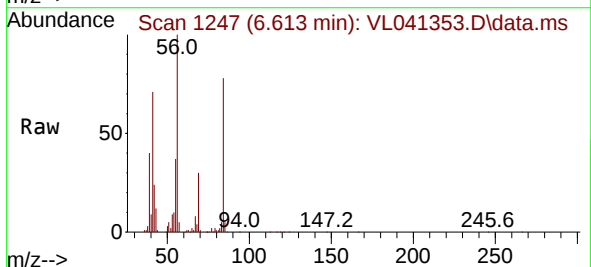
Tgt Ion: 83 Resp: 400284  
Ion Ratio Lower Upper  
83 100  
85 63.6 54.2 81.4

Manual Integrations  
APPROVED

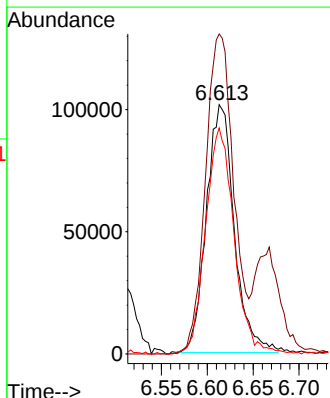
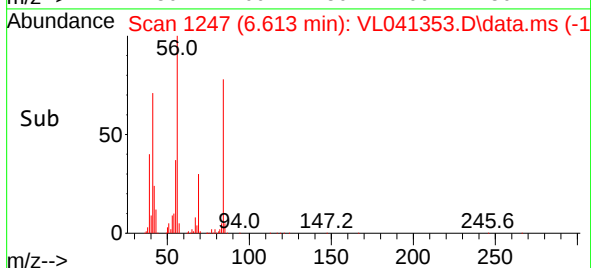
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024

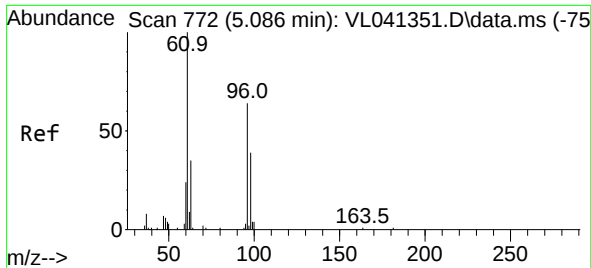


#30  
Cyclohexane  
Concen: 2.365 ppbv  
RT: 6.613 min Scan# 1247  
Delta R.T. 0.000 min  
Lab File: VL041353.D  
Acq: 26 Jun 2024 9:33



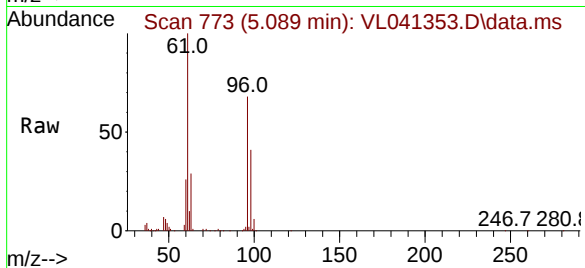
Tgt Ion: 84 Resp: 214926  
Ion Ratio Lower Upper  
84 100  
56 129.8 112.4 168.6  
41 93.1 72.7 109.1





#31  
 cis-1,2-Dichloroethene  
 Concen: 2.387 ppbv  
 RT: 5.089 min Scan# 71  
 Delta R.T. 0.000 min  
 Lab File: VL041353.D  
 Acq: 26 Jun 2024 9:33

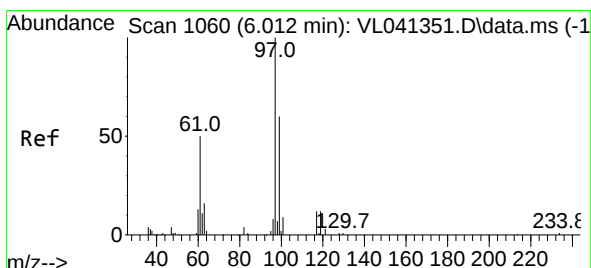
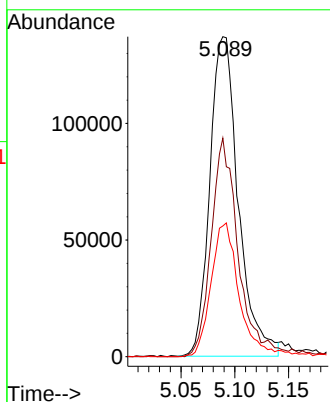
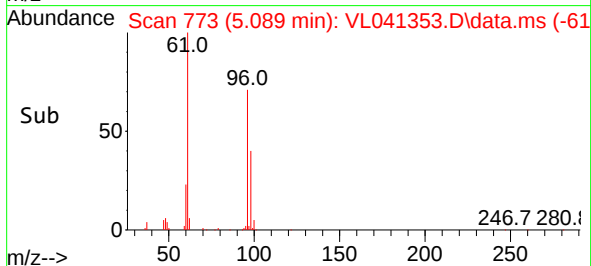
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002



Tgt Ion: 61 Resp: 252868  
 Ion Ratio Lower Upper  
 61 100  
 96 68.4 52.6 79.0  
 98 40.9 32.3 48.5

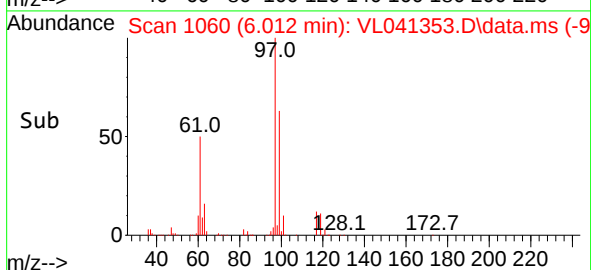
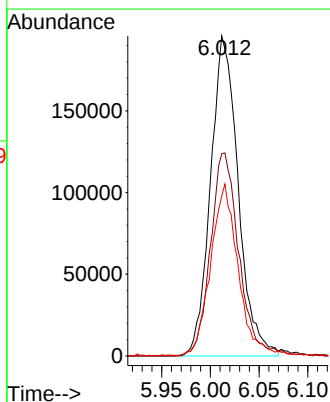
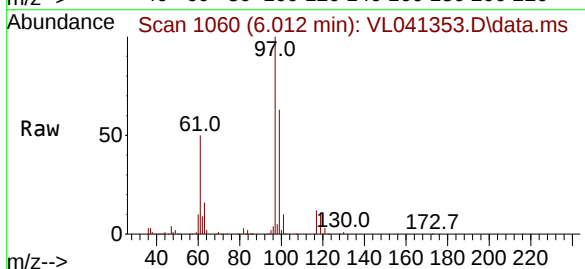
Manual Integrations  
 APPROVED

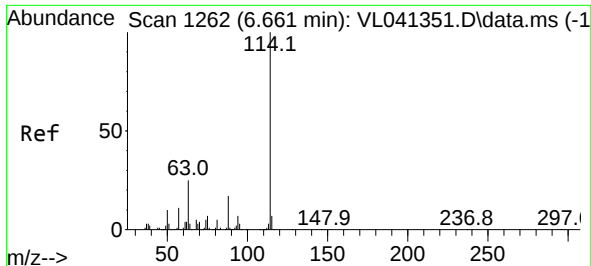
Reviewed By :Semsettin Yesilyurt 06/27/2024  
 Supervised By :Mahesh Dadoda 06/27/2024



#32  
 1,1,1-Trichloroethane  
 Concen: 2.374 ppbv  
 RT: 6.012 min Scan# 1060  
 Delta R.T. -0.003 min  
 Lab File: VL041353.D  
 Acq: 26 Jun 2024 9:33

Tgt Ion: 97 Resp: 386837  
 Ion Ratio Lower Upper  
 97 100  
 99 65.4 52.0 78.0  
 61 54.2 43.0 64.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.664 min Scan# 1262

Delta R.T. -0.003 min

Lab File: VL041353.D

Acq: 26 Jun 2024 9:33

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

Tgt Ion:114 Resp: 295584

Ion Ratio Lower Upper

114 100

63 25.4 20.6 31.0

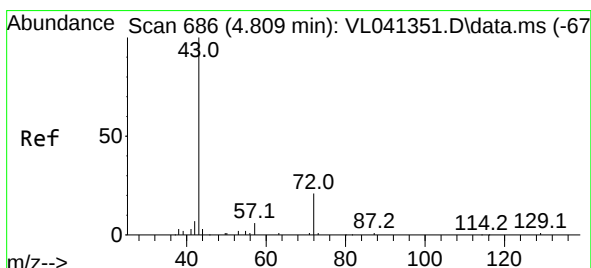
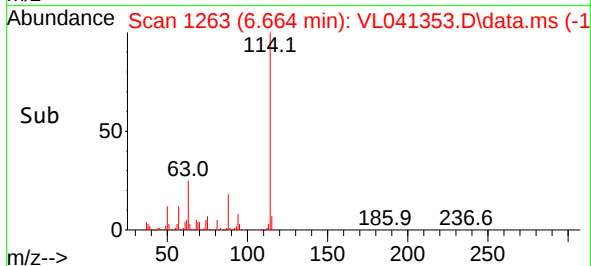
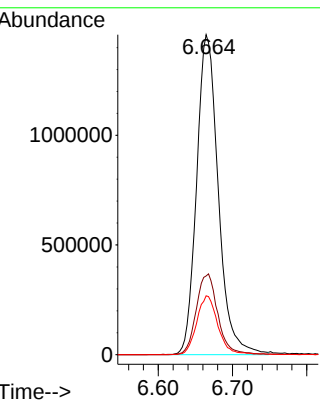
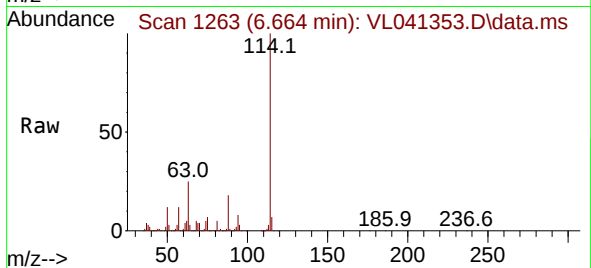
88 18.1 14.6 21.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/27/2024

Supervised By :Mahesh Dadoda 06/27/2024



#34

2-Butanone

Concen: 2.497 ppbv

RT: 4.803 min Scan# 684

Delta R.T. 0.006 min

Lab File: VL041353.D

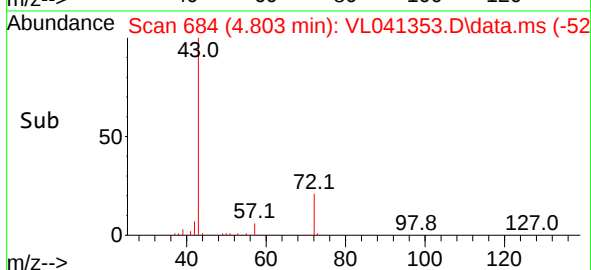
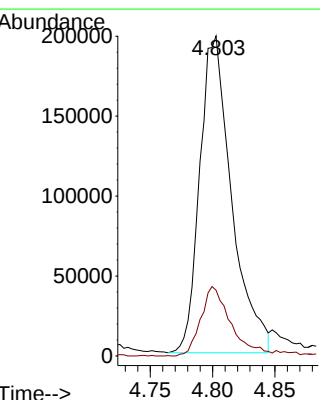
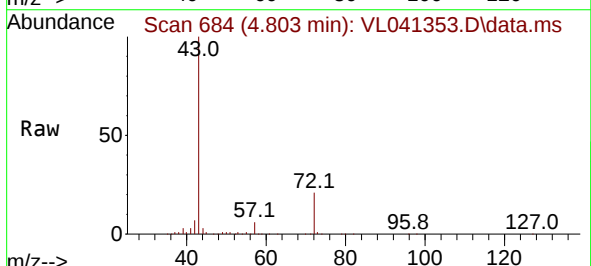
Acq: 26 Jun 2024 9:33

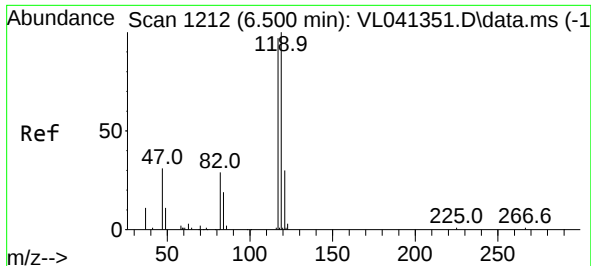
Tgt Ion: 43 Resp: 353585

Ion Ratio Lower Upper

43 100

72 22.2 17.2 25.8





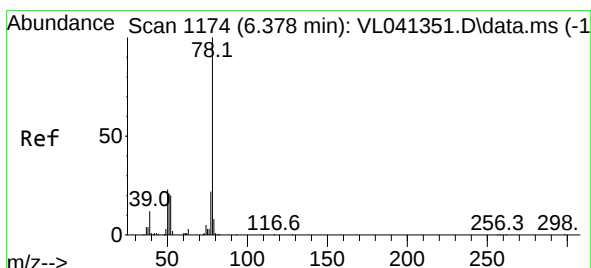
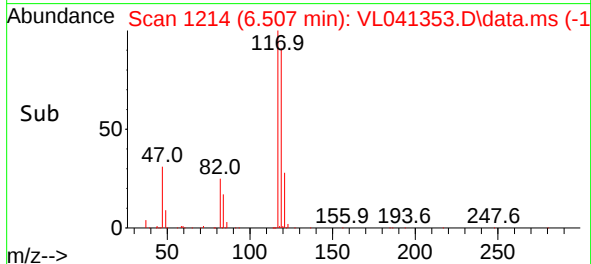
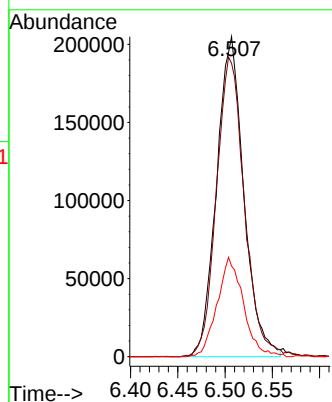
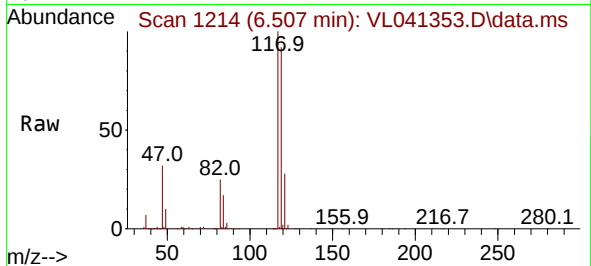
#35  
Carbon Tetrachloride  
Concen: 2.442 ppbv  
RT: 6.507 min Scan# 1175  
Delta R.T. 0.000 min  
Lab File: VL041353.D  
Acq: 26 Jun 2024 9:33

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

Tgt Ion: 117 Resp: 41028  
Ion Ratio Lower Upper  
117 100  
119 91.7 77.2 115.8  
121 28.3 25.2 37.8

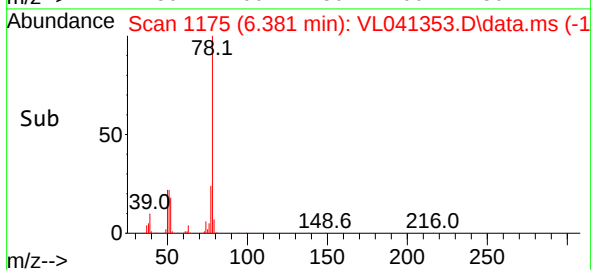
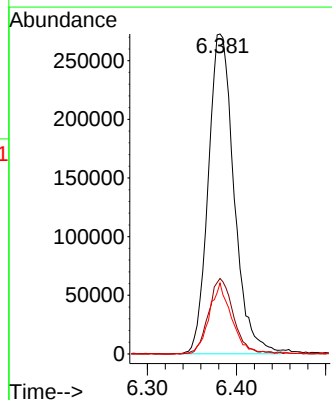
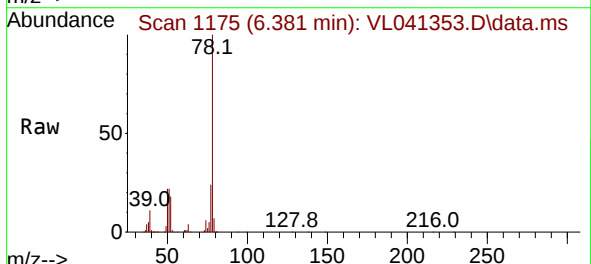
Manual Integrations  
APPROVED

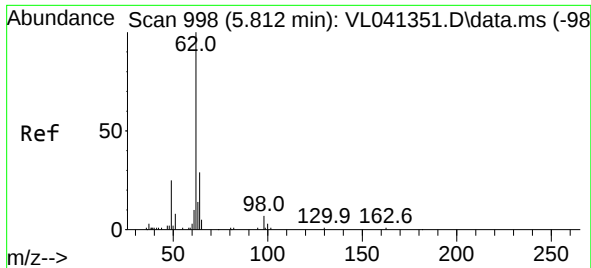
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024



#36  
Benzene  
Concen: 2.392 ppbv  
RT: 6.381 min Scan# 1175  
Delta R.T. 0.000 min  
Lab File: VL041353.D  
Acq: 26 Jun 2024 9:33

Tgt Ion: 78 Resp: 548004  
Ion Ratio Lower Upper  
78 100  
77 23.6 17.9 26.9  
50 22.2 15.5 23.3





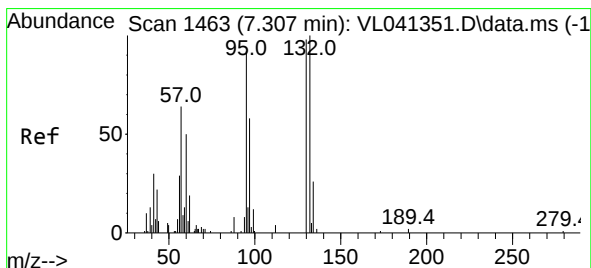
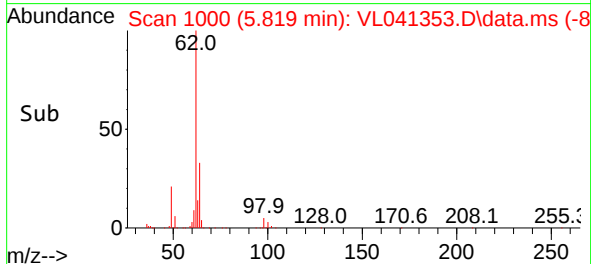
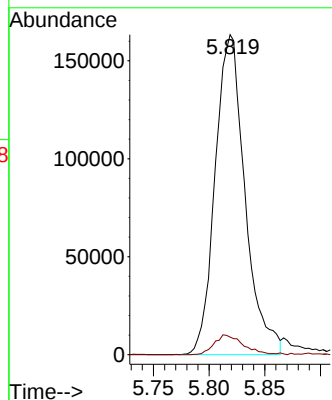
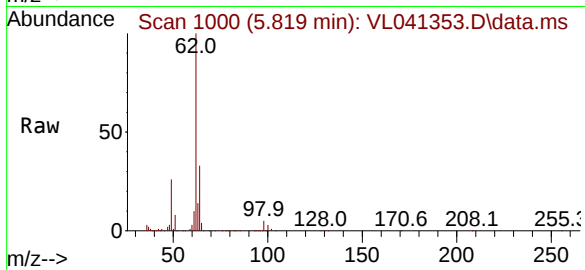
#37  
1,2-Dichloroethane  
Concen: 2.280 ppbv  
RT: 5.819 min Scan# 1000  
Delta R.T. 0.000 min  
Lab File: VL041353.D  
Acq: 26 Jun 2024 9:33

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

Tgt Ion: 62 Resp: 30460  
Ion Ratio Lower Upper  
62 100  
98 6.1 4.8 7.2

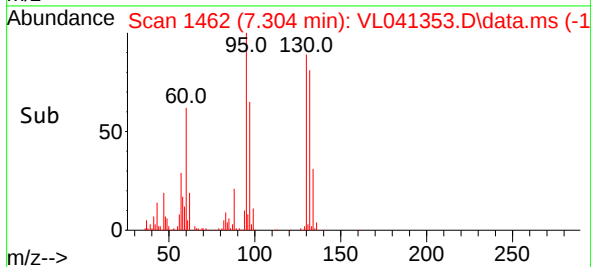
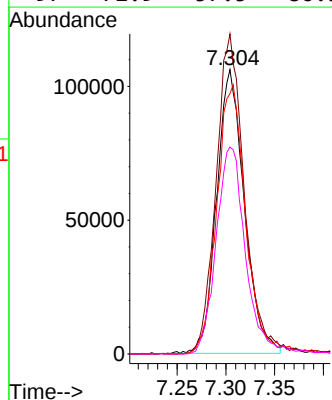
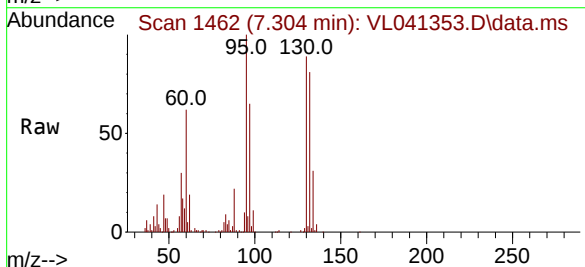
Manual Integrations  
APPROVED

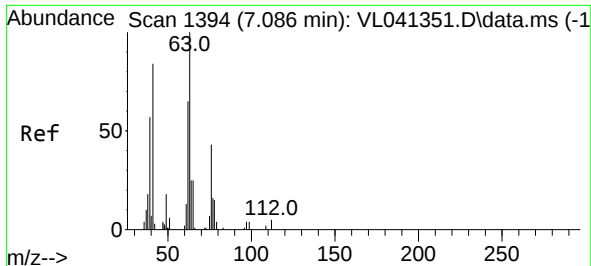
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024



#38  
Trichloroethene  
Concen: 2.261 ppbv  
RT: 7.304 min Scan# 1462  
Delta R.T. -0.003 min  
Lab File: VL041353.D  
Acq: 26 Jun 2024 9:33

Tgt Ion:130 Resp: 209972  
Ion Ratio Lower Upper  
130 100  
95 112.7 90.0 135.0  
132 91.8 74.8 112.2  
97 72.9 57.5 86.3





#39

1,2-Dichloropropane

Concen: 2.343 ppbv

RT: 7.089 min Scan# 11

Delta R.T. 0.000 min

Lab File: VL041353.D

Acq: 26 Jun 2024 9:33

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC002

Tgt Ion: 63 Resp: 21376

Ion Ratio Lower Upper

63 100

41 72.4 64.0 96.0

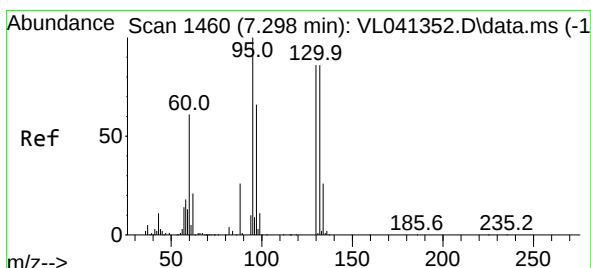
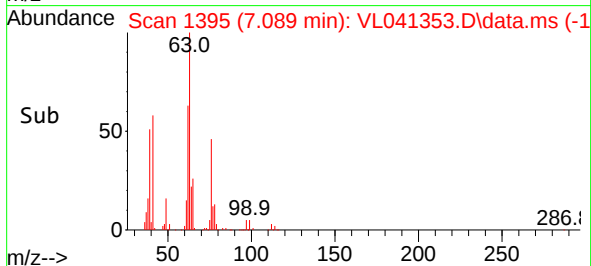
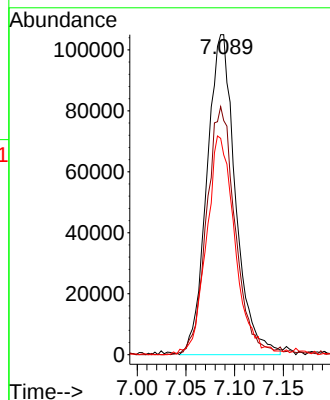
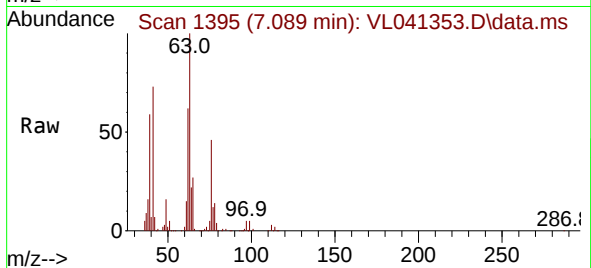
62 61.4 55.2 82.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/27/2024

Supervised By :Mahesh Dadoda 06/27/2024



#40

1,4-Dioxane

Concen: 2.100 ppbv

RT: 7.311 min Scan# 1464

Delta R.T. 0.013 min

Lab File: VL041353.D

Acq: 26 Jun 2024 9:33

Tgt Ion: 88 Resp: 70156

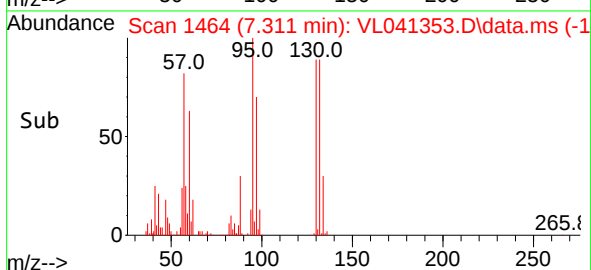
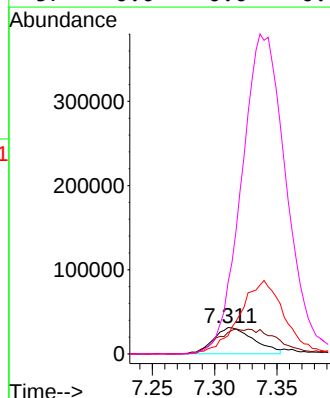
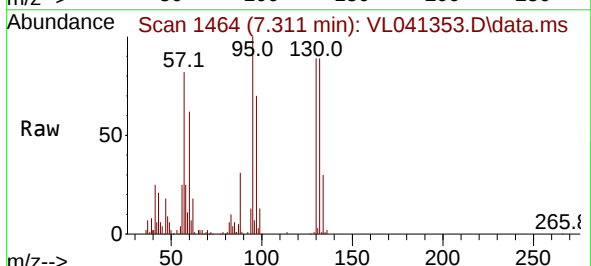
Ion Ratio Lower Upper

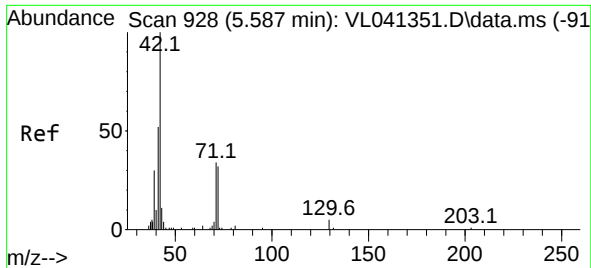
88 100

58 145.4 47.9 71.9#

43 0.0 0.0 0.0

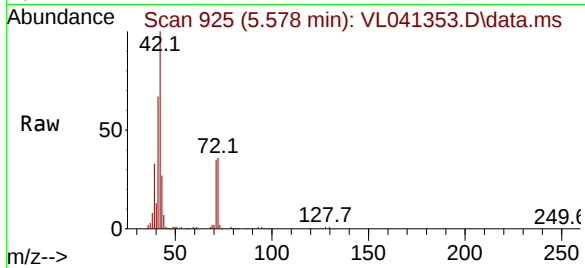
57 0.0 0.0 0.0





#41  
Tetrahydrofuran  
Concen: 2.312 ppbv  
RT: 5.578 min Scan# 91  
Delta R.T. 0.013 min  
Lab File: VL041353.D  
Acq: 26 Jun 2024 9:33

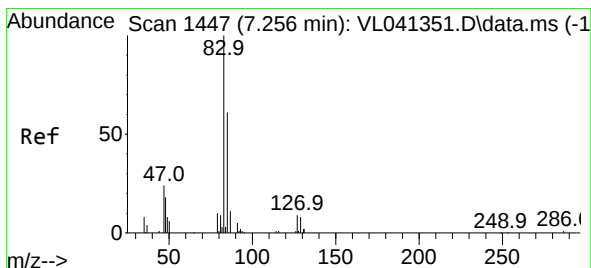
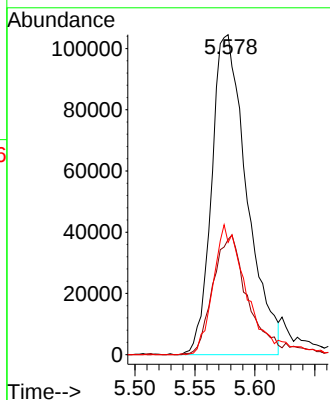
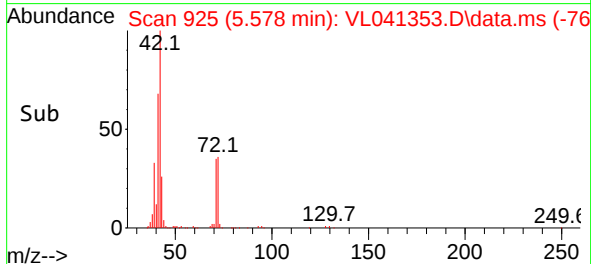
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



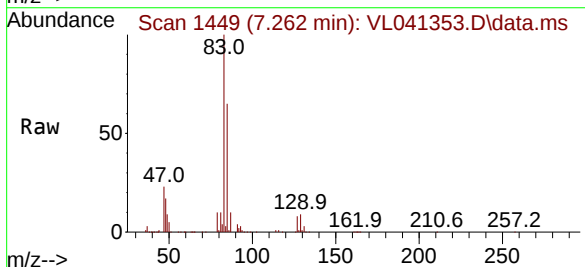
Tgt Ion: 42 Resp: 212998  
Ion Ratio Lower Upper  
42 100  
72 39.6 30.3 45.5  
71 40.7 29.7 44.5

Manual Integrations  
APPROVED

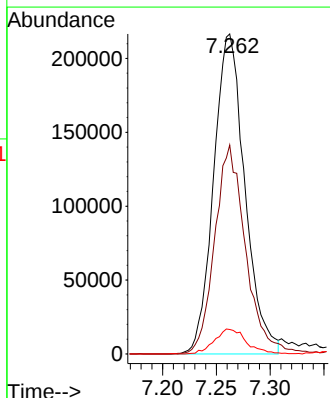
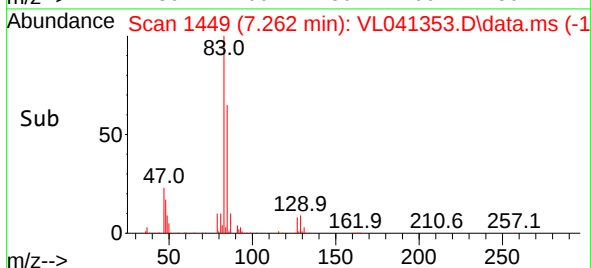
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024

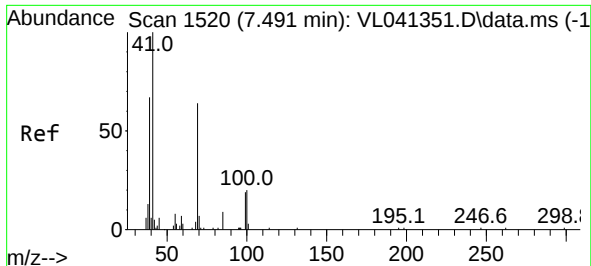


#42  
Bromodichloromethane  
Concen: 2.282 ppbv  
RT: 7.262 min Scan# 1449  
Delta R.T. -0.003 min  
Lab File: VL041353.D  
Acq: 26 Jun 2024 9:33



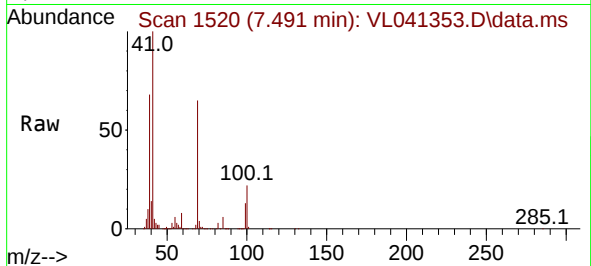
Tgt Ion: 83 Resp: 437687  
Ion Ratio Lower Upper  
83 100  
85 65.1 52.0 78.0  
127 7.6 6.0 9.0





#43  
Methyl Methacrylate  
Concen: 2.381 ppbv  
RT: 7.491 min Scan# 1520  
Delta R.T. 0.003 min  
Lab File: VL041353.D  
Acq: 26 Jun 2024 9:33

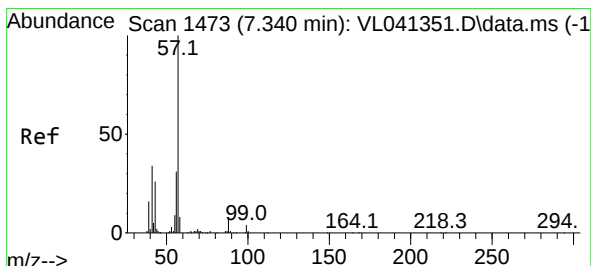
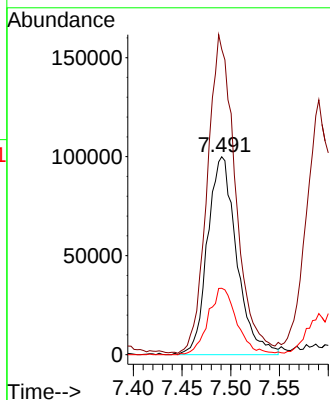
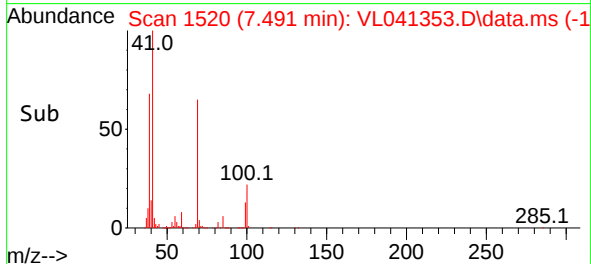
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



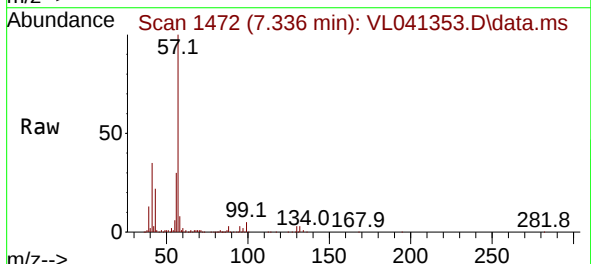
Tgt Ion: 69 Resp: 20781  
Ion Ratio Lower Upper  
69 100  
41 155.0 125.0 187.6  
100 33.3 26.8 40.2

Manual Integrations  
APPROVED

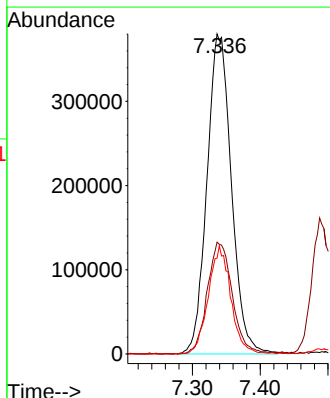
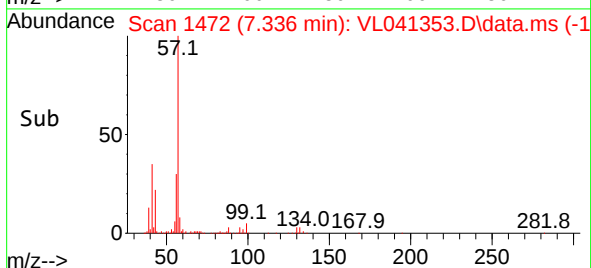
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024

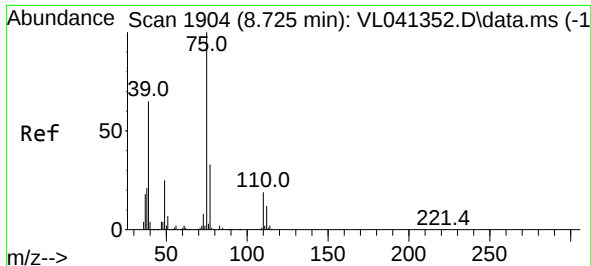


#44  
2,2,4-Trimethylpentane  
Concen: 2.418 ppbv  
RT: 7.336 min Scan# 1472  
Delta R.T. -0.003 min  
Lab File: VL041353.D  
Acq: 26 Jun 2024 9:33



Tgt Ion: 57 Resp: 952935  
Ion Ratio Lower Upper  
57 100  
41 35.8 29.6 44.4  
56 31.1 25.7 38.5





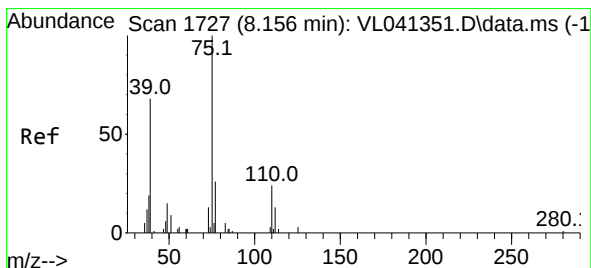
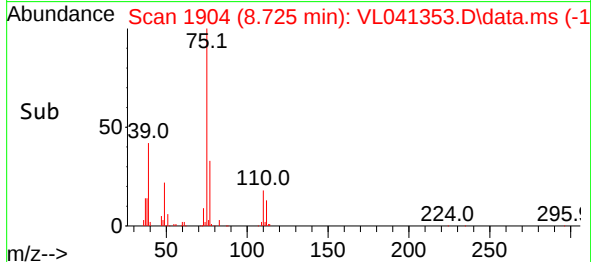
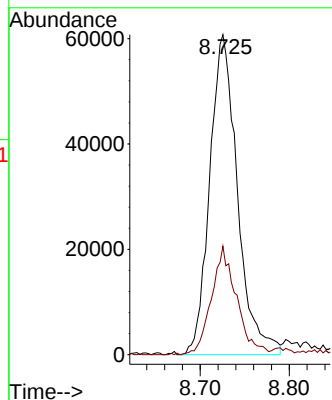
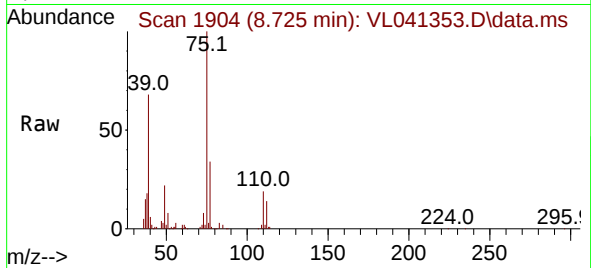
#45  
 t-1,3-Dichloropropene  
 Concen: 2.231 ppbv  
 RT: 8.725 min Scan# 1904  
 Delta R.T. 0.000 min  
 Lab File: VL041353.D  
 Acq: 26 Jun 2024 9:33

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002

Tgt Ion: 75 Resp: 131409  
 Ion Ratio Lower Upper  
 75 100  
 77 33.9 26.2 39.2

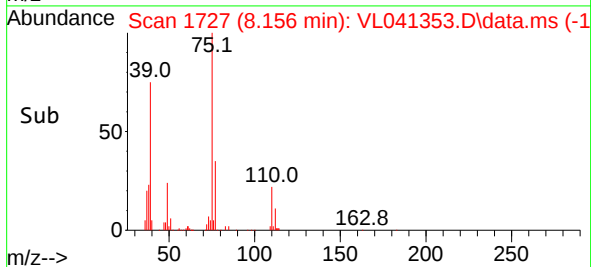
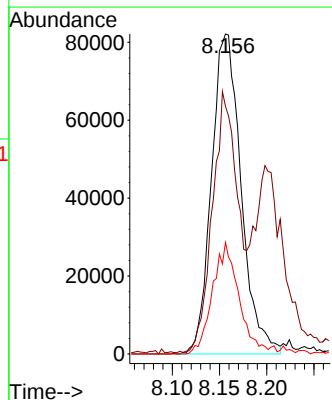
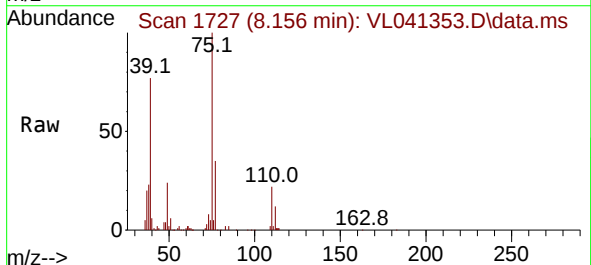
Manual Integrations  
 APPROVED

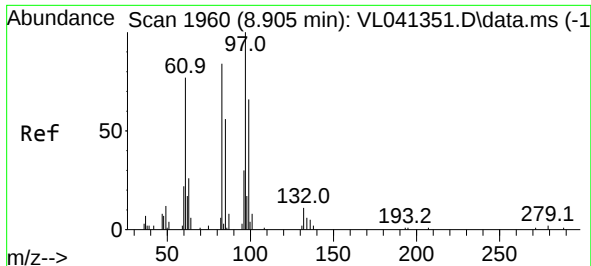
Reviewed By :Semsettin Yesilyurt 06/27/2024  
 Supervised By :Mahesh Dadoda 06/27/2024



#46  
 cis-1,3-Dichloropropene  
 Concen: 2.356 ppbv  
 RT: 8.156 min Scan# 1727  
 Delta R.T. -0.003 min  
 Lab File: VL041353.D  
 Acq: 26 Jun 2024 9:33

Tgt Ion: 75 Resp: 178617  
 Ion Ratio Lower Upper  
 75 100  
 39 76.6 56.6 85.0  
 77 34.8 25.5 38.3





#47

1,1,2-Trichloroethane

Concen: 2.326 ppbv m

RT: 8.915 min Scan# 1963

Delta R.T. 0.003 min

Lab File: VL041353.D

Acq: 26 Jun 2024 9:33

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

Tgt Ion: 97 Resp: 22172

Ion Ratio Lower Upper

97 100

83 87.2 72.4 108.6

85 54.5 42.6 64.0

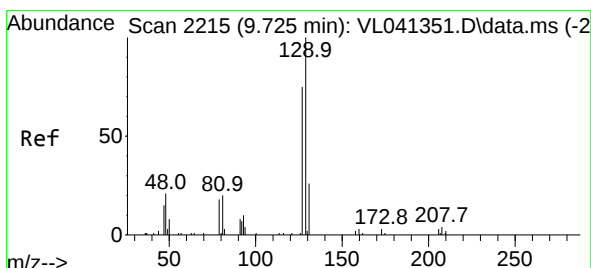
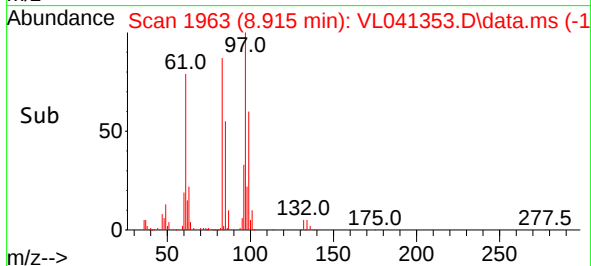
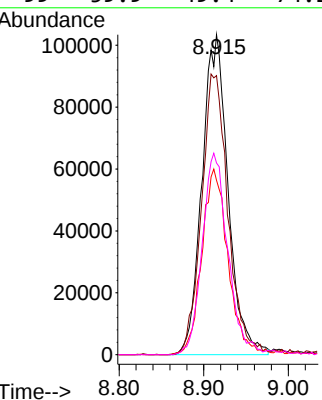
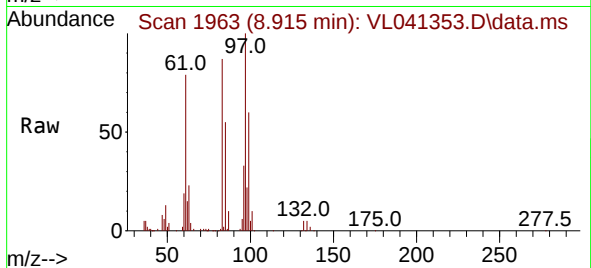
99 59.9 49.4 74.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/27/2024

Supervised By :Mahesh Dadoda 06/27/2024



#48

Dibromochloromethane

Concen: 2.335 ppbv

RT: 9.722 min Scan# 2214

Delta R.T. -0.006 min

Lab File: VL041353.D

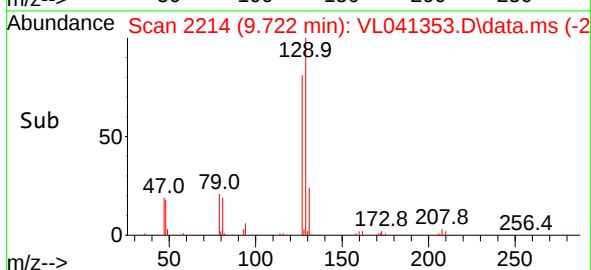
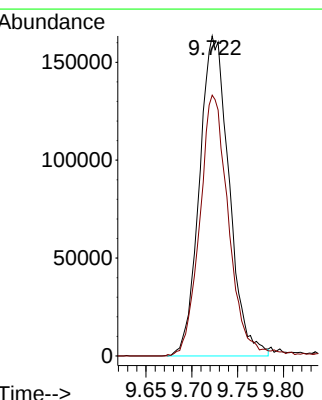
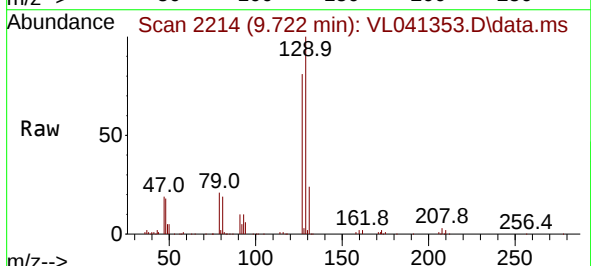
Acq: 26 Jun 2024 9:33

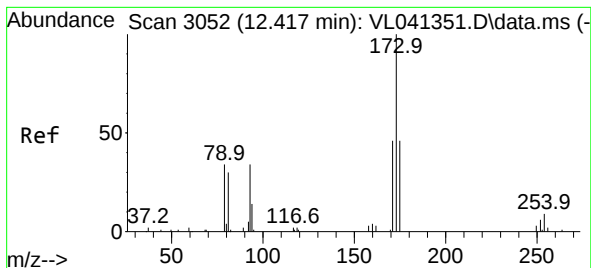
Tgt Ion:129 Resp: 366878

Ion Ratio Lower Upper

129 100

127 79.4 39.9 119.7





#49

Bromoform

Concen: 2.288 ppbv

RT: 12.423 min Scan# 3052

Delta R.T. 0.000 min

Lab File: VL041353.D

Acq: 26 Jun 2024 9:33

Instrument :

MSVOA\_L

ClientSampleId :

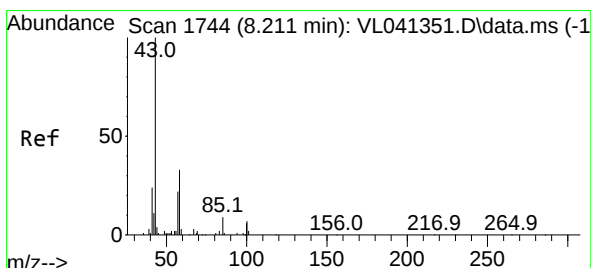
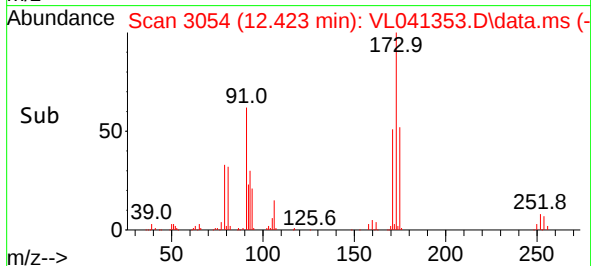
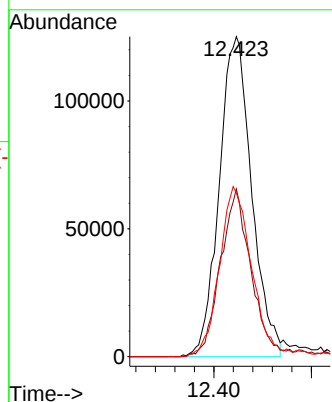
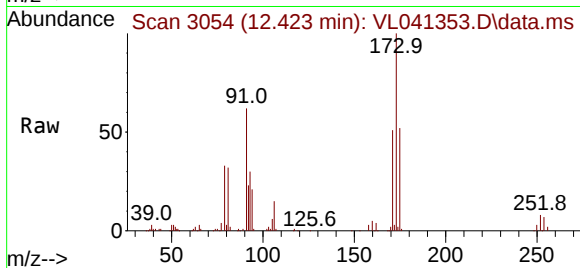
VSTDIC002

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 173   | Resp: | 289680 |
| Ion Ratio | Lower | Upper |        |
| 173       | 100   |       |        |
| 175       | 51.5  | 40.3  | 60.5   |
| 171       | 55.1  | 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: 2.513 ppbv

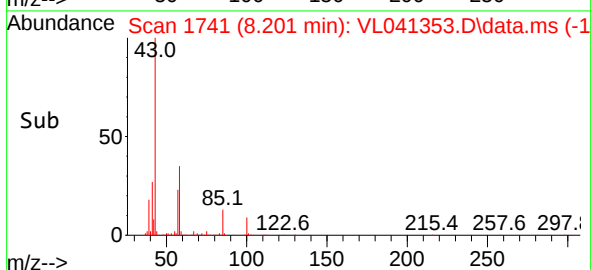
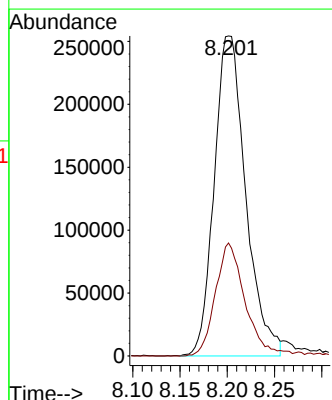
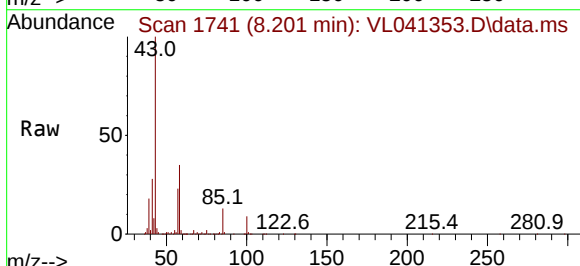
RT: 8.201 min Scan# 1741

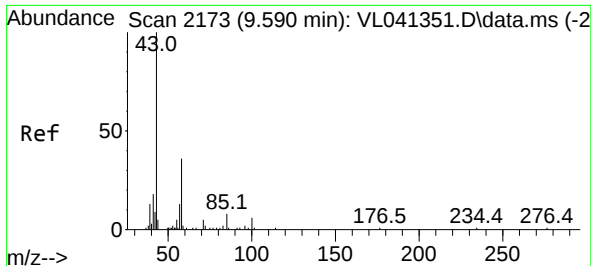
Delta R.T. 0.006 min

Lab File: VL041353.D

Acq: 26 Jun 2024 9:33

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 43    | Resp: | 589141 |
| Ion Ratio | Lower | Upper |        |
| 43        | 100   |       |        |
| 58        | 34.3  | 27.8  | 41.8   |





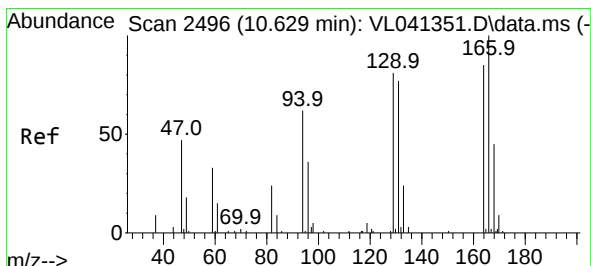
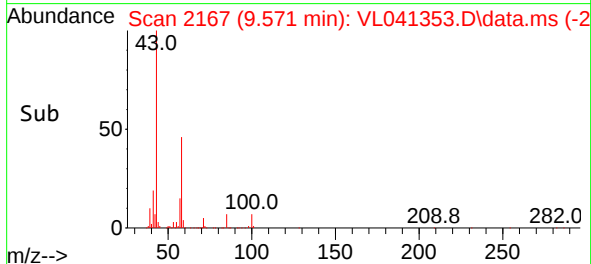
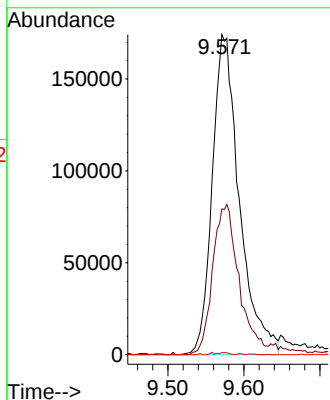
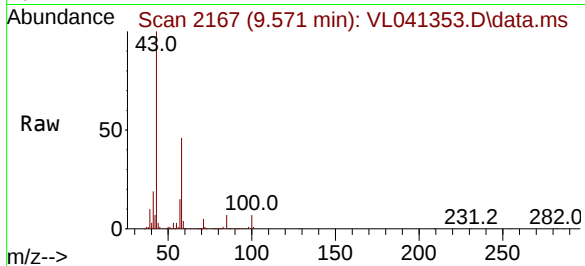
#51  
2-Hexanone  
Concen: 2.586 ppbv  
RT: 9.571 min Scan# 2173  
Delta R.T. 0.003 min  
Lab File: VL041353.D  
Acq: 26 Jun 2024 9:33

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion: 43 Resp: 43082  
Ion Ratio Lower Upper  
43 100  
58 48.2 38.0 57.0  
98 0.5 0.2 0.2

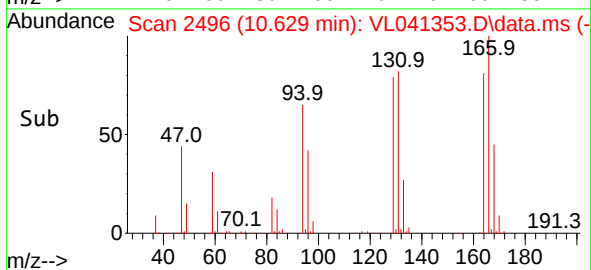
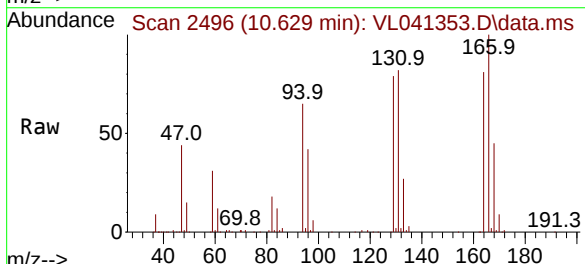
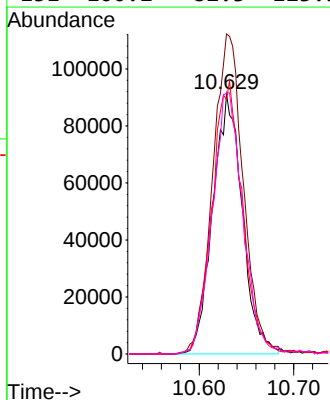
Manual Integrations  
APPROVED

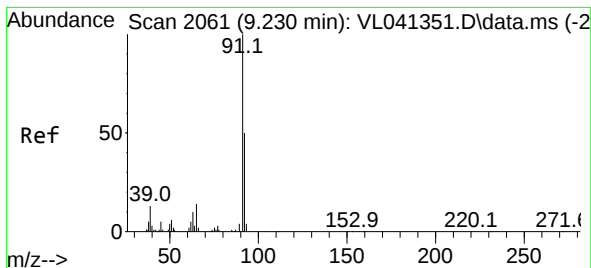
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024



#52  
Tetrachloroethene  
Concen: 2.367 ppbv  
RT: 10.629 min Scan# 2496  
Delta R.T. -0.003 min  
Lab File: VL041353.D  
Acq: 26 Jun 2024 9:33

Tgt Ion:164 Resp: 197734  
Ion Ratio Lower Upper  
164 100  
166 123.0 99.8 149.8  
129 97.6 83.8 125.6  
131 100.2 82.3 123.5





#53

Toluene

Concen: 2.386 ppbv

RT: 9.237 min Scan# 2061

Delta R.T. 0.000 min

Lab File: VL041353.D

Acq: 26 Jun 2024 9:33

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

Tgt Ion: 91 Resp: 628880

Ion Ratio Lower Upper

91 100

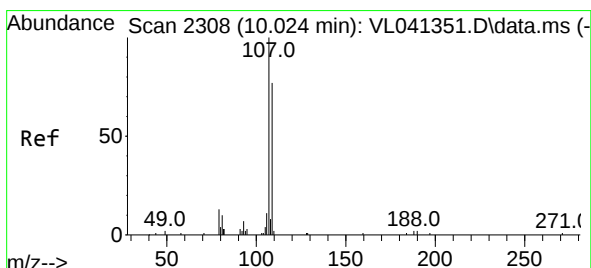
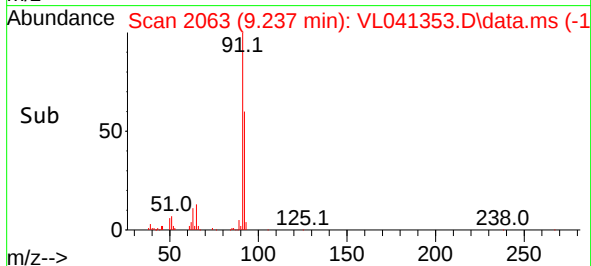
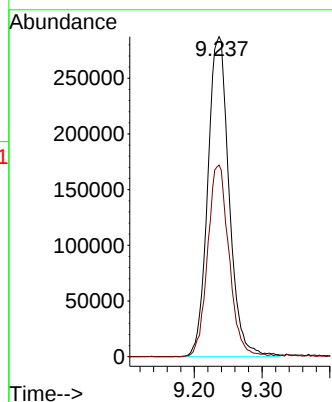
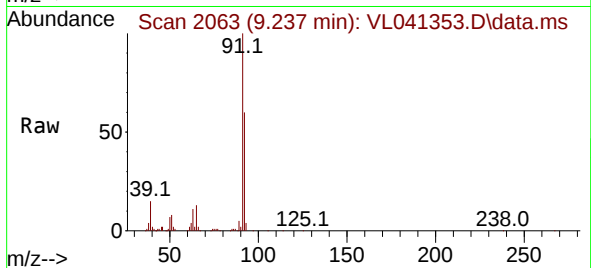
92 60.6 48.5 72.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/27/2024

Supervised By :Mahesh Dadoda 06/27/2024



#54

1,2-Dibromoethane

Concen: 2.288 ppbv

RT: 10.021 min Scan# 2307

Delta R.T. -0.006 min

Lab File: VL041353.D

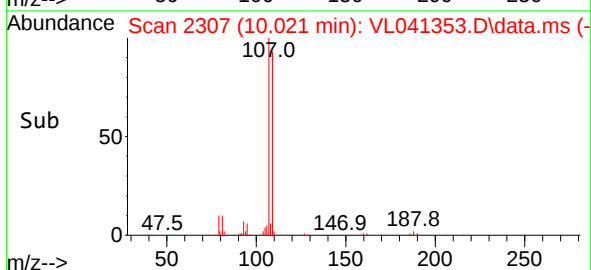
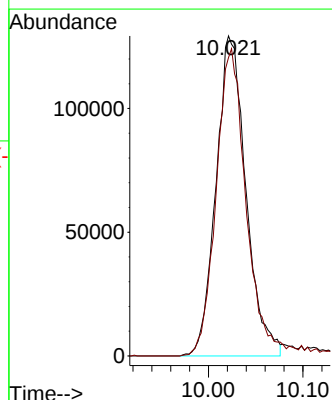
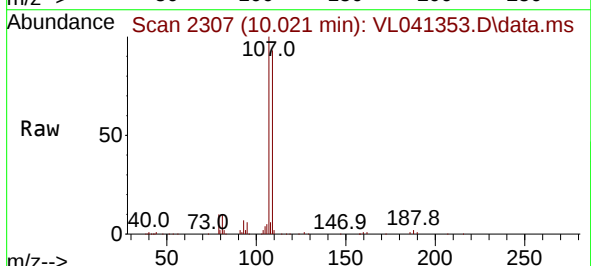
Acq: 26 Jun 2024 9:33

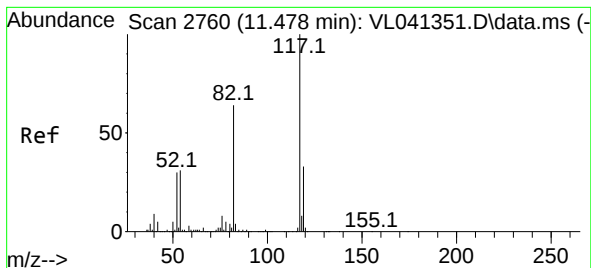
Tgt Ion:107 Resp: 284321

Ion Ratio Lower Upper

107 100

109 93.2 75.8 113.6





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.484 min Scan# 2760

Delta R.T. 0.000 min

Lab File: VL041353.D

Acq: 26 Jun 2024 9:33

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

Tgt Ion:117 Resp: 284264

Ion Ratio Lower Upper

117 100

82 61.8 50.6 75.8

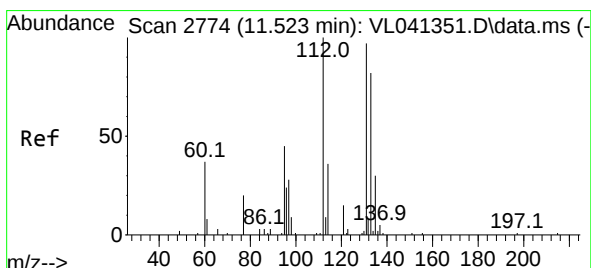
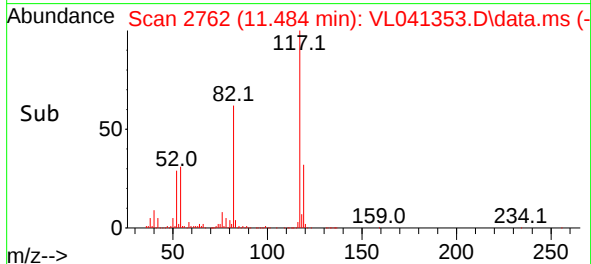
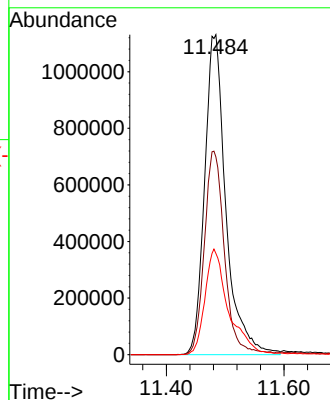
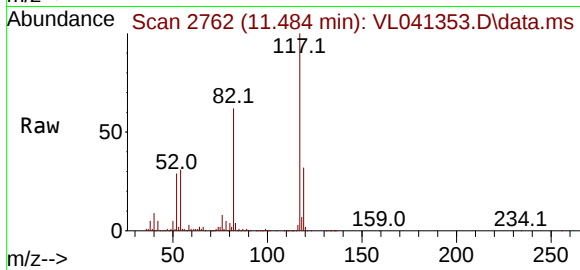
119 37.1 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/27/2024

Supervised By :Mahesh Dadoda 06/27/2024



#56

1,1,1,2-Tetrachloroethane

Concen: 2.316 ppbv

RT: 11.523 min Scan# 2774

Delta R.T. -0.003 min

Lab File: VL041353.D

Acq: 26 Jun 2024 9:33

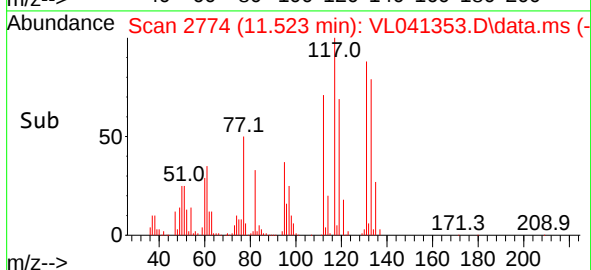
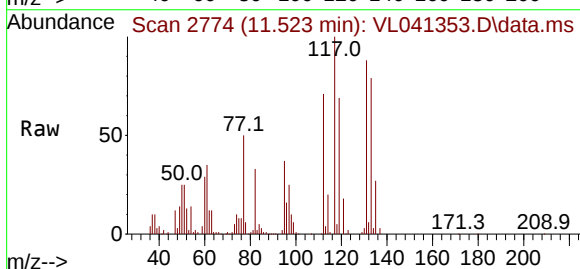
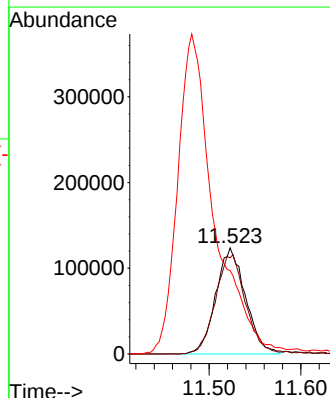
Tgt Ion:131 Resp: 278410

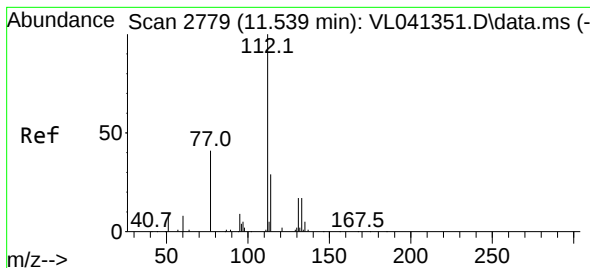
Ion Ratio Lower Upper

131 100

133 97.2 76.8 115.2

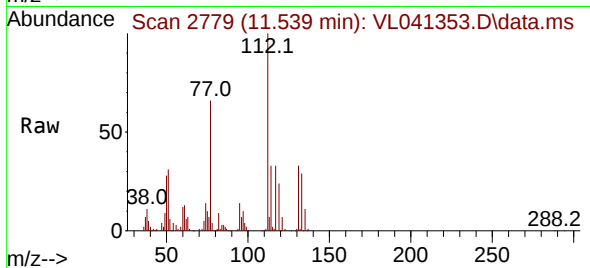
119 377.9 49.4 74.0#





#57  
Chlorobenzene  
Concen: 2.326 ppbv m  
RT: 11.539 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: VL041353.D  
Acq: 26 Jun 2024 9:33

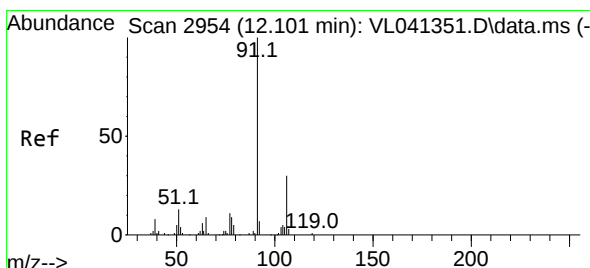
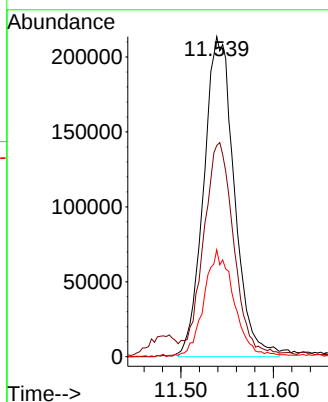
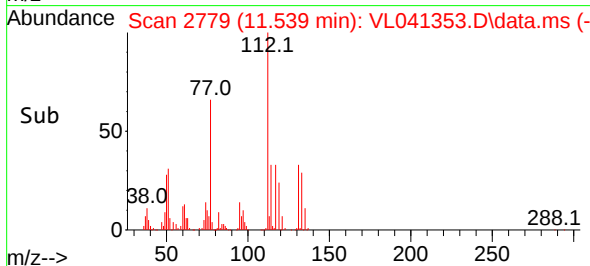
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



Tgt Ion:112 Resp: 491228  
Ion Ratio Lower Upper  
112 100  
77 66.0 53.2 79.8  
114 33.4 30.1 36.7

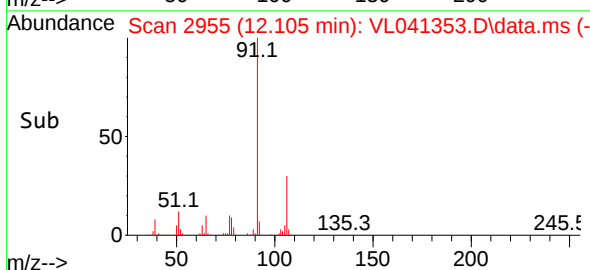
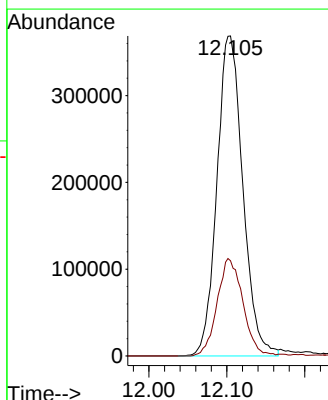
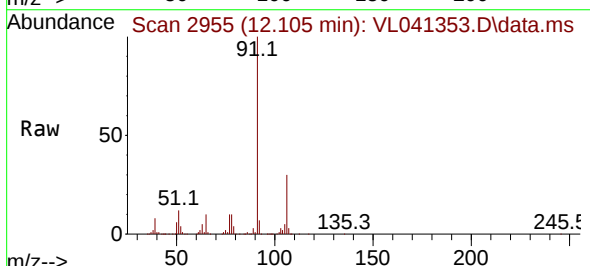
Manual Integrations  
APPROVED

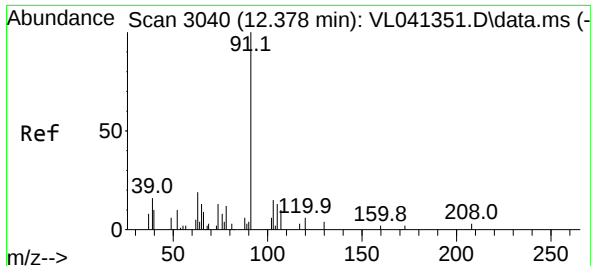
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024



#58  
Ethyl Benzene  
Concen: 2.342 ppbv  
RT: 12.105 min Scan# 2955  
Delta R.T. 0.000 min  
Lab File: VL041353.D  
Acq: 26 Jun 2024 9:33

Tgt Ion: 91 Resp: 853495  
Ion Ratio Lower Upper  
91 100  
106 29.8 25.4 38.0





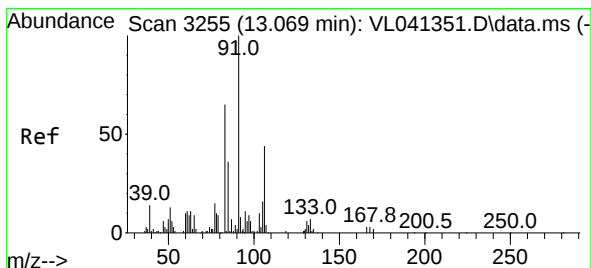
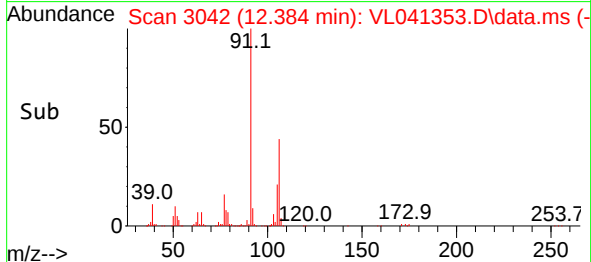
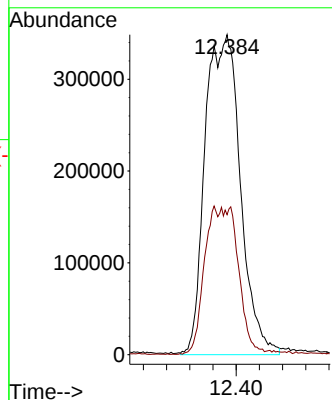
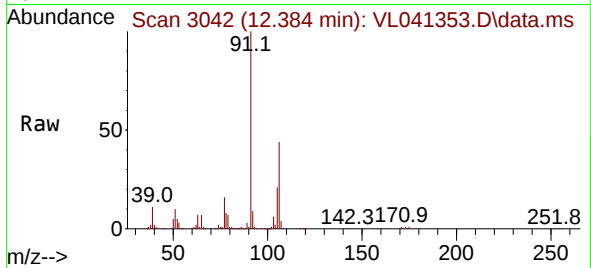
#59  
m/p-Xylene  
Concen: 4.717 ppbv m  
RT: 12.384 min Scan# 3040  
Delta R.T. 0.000 min  
Lab File: VL041353.D  
Acq: 26 Jun 2024 9:33

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

Tgt Ion: 91 Resp: 147249  
Ion Ratio Lower Upper  
91 100  
106 0.0 35.6 53.4

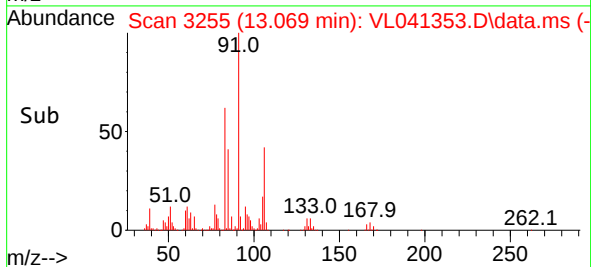
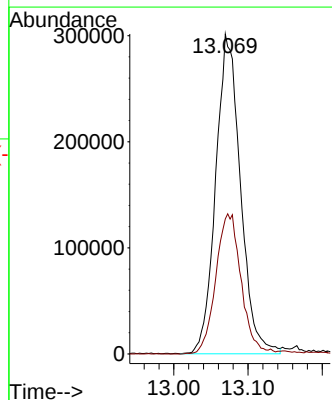
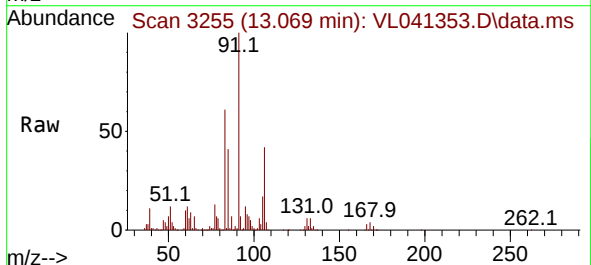
Manual Integrations  
APPROVED

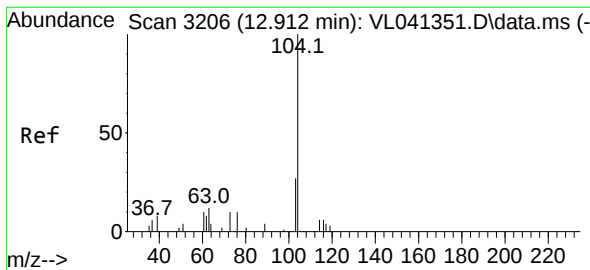
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024



#60  
o-Xylene  
Concen: 2.344 ppbv  
RT: 13.069 min Scan# 3255  
Delta R.T. -0.006 min  
Lab File: VL041353.D  
Acq: 26 Jun 2024 9:33

Tgt Ion: 91 Resp: 697629  
Ion Ratio Lower Upper  
91 100  
106 45.7 23.3 69.8





#61

Styrene

Concen: 2.308 ppbv

RT: 12.915 min Scan# 31

Delta R.T. 0.000 min

Lab File: VL041353.D

Acq: 26 Jun 2024 9:33

Instrument :

MSVOA\_L

ClientSampleId :

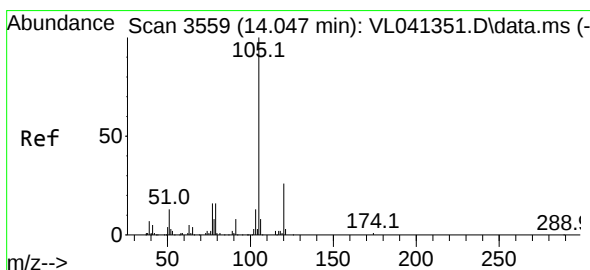
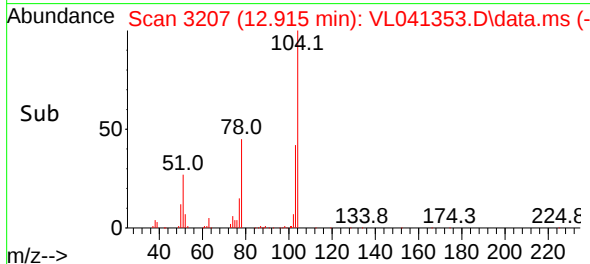
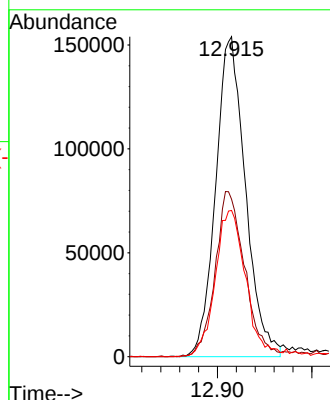
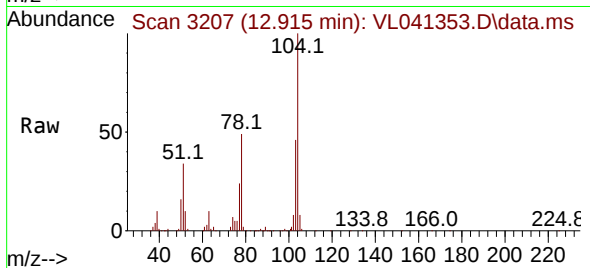
VSTDICC002

Tgt Ion:104 Resp: 336779  
 Ion Ratio Lower Upper  
 104 100  
 78 52.7 40.6 61.0  
 103 47.8 37.4 56.0

Manual Integrations

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



#62

Isopropylbenzene

Concen: 2.373 ppbv

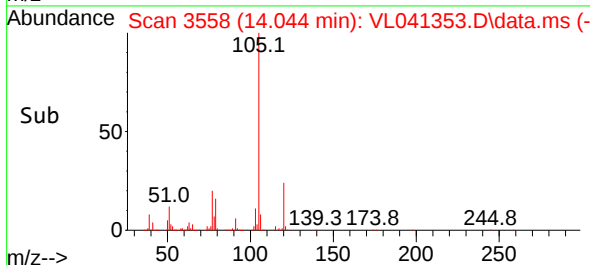
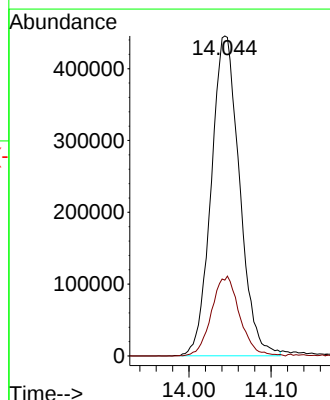
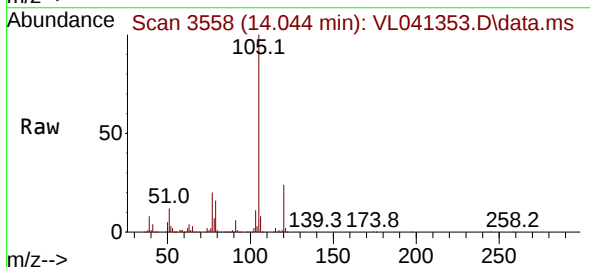
RT: 14.044 min Scan# 3558

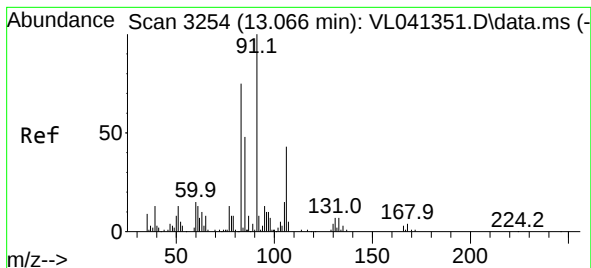
Delta R.T. 0.000 min

Lab File: VL041353.D

Acq: 26 Jun 2024 9:33

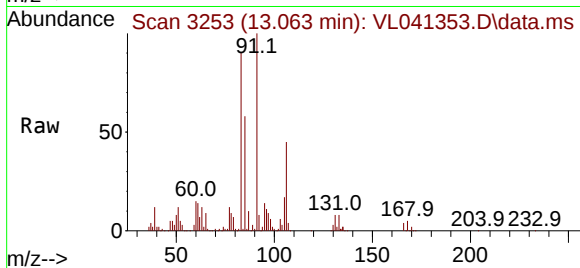
Tgt Ion:105 Resp: 1068148  
 Ion Ratio Lower Upper  
 105 100  
 120 25.1 20.9 31.3





#63  
1,1,2,2-Tetrachloroethane  
Concen: 2.345 ppbv  
RT: 13.063 min Scan# 31  
Delta R.T. -0.003 min  
Lab File: VL041353.D  
Acq: 26 Jun 2024 9:33

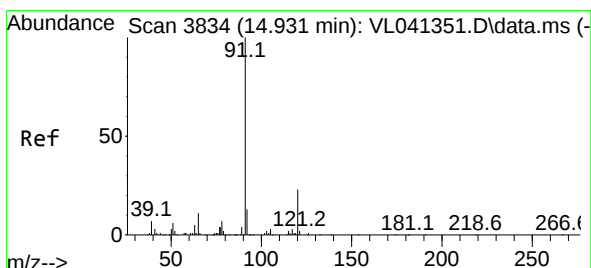
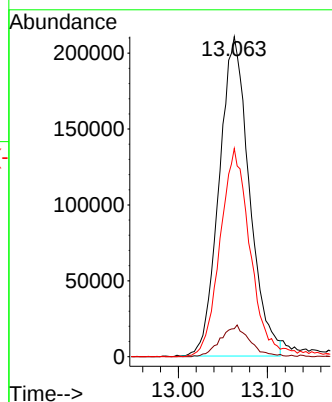
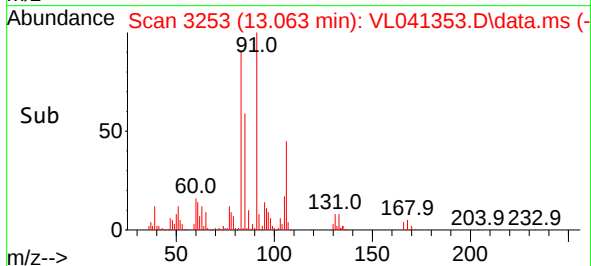
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



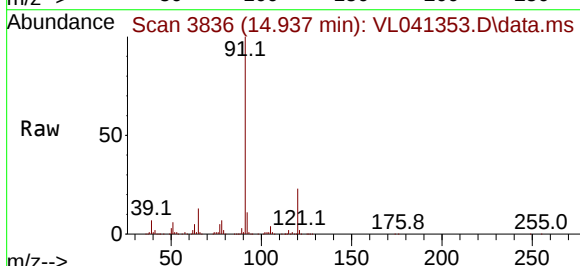
Tgt Ion: 83 Resp: 49650  
Ion Ratio Lower Upper  
83 100  
131 9.7 4.8 14.4  
85 67.3 33.0 98.9

Manual Integrations  
APPROVED

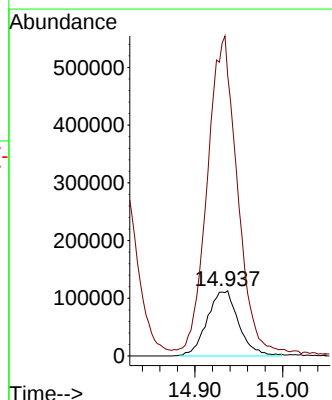
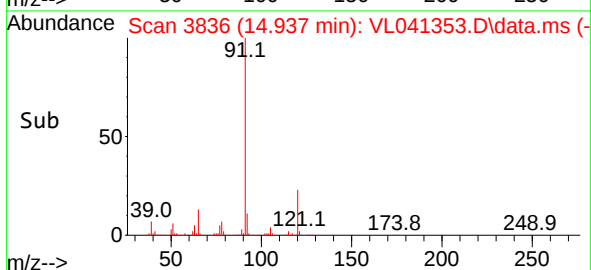
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024

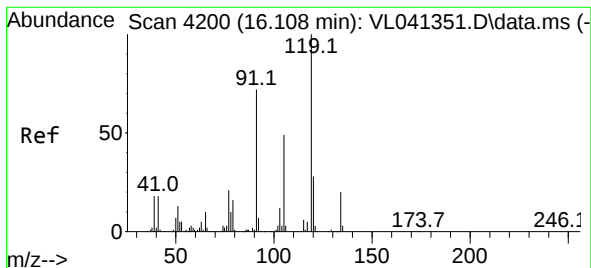


#64  
n-propylbenzene  
Concen: 2.415 ppbv m  
RT: 14.937 min Scan# 3836  
Delta R.T. 0.003 min  
Lab File: VL041353.D  
Acq: 26 Jun 2024 9:33



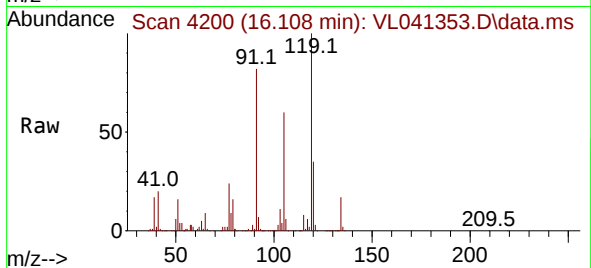
Tgt Ion:120 Resp: 280106  
Ion Ratio Lower Upper  
120 100  
91 287.4 378.4 567.6#





#65  
tert-Butylbenzene  
Concen: 2.422 ppbv  
RT: 16.108 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VL041353.D  
Acq: 26 Jun 2024 9:33

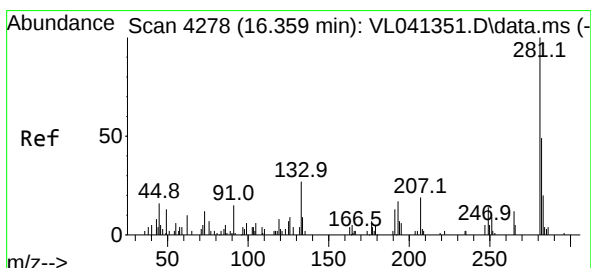
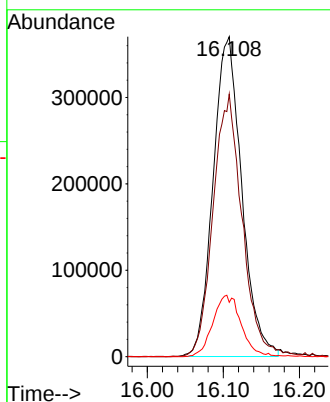
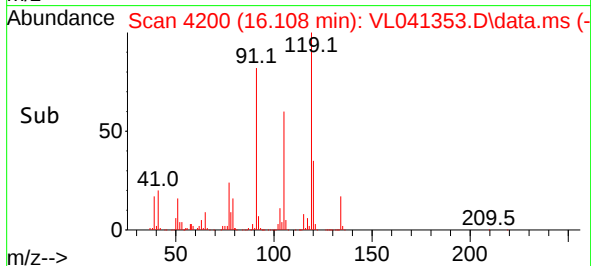
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002



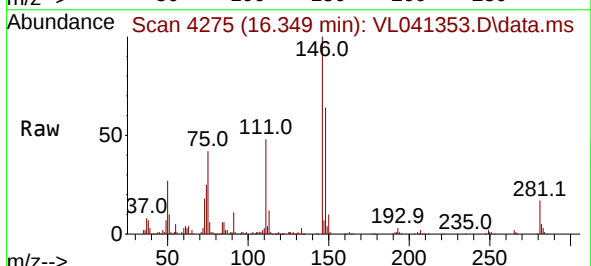
Tgt Ion:119 Resp: 96899  
Ion Ratio Lower Upper  
119 100  
91 83.4 65.8 98.6  
134 19.1 15.7 23.5

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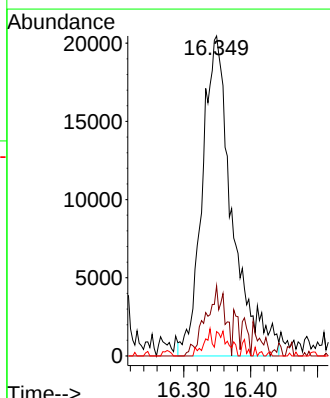
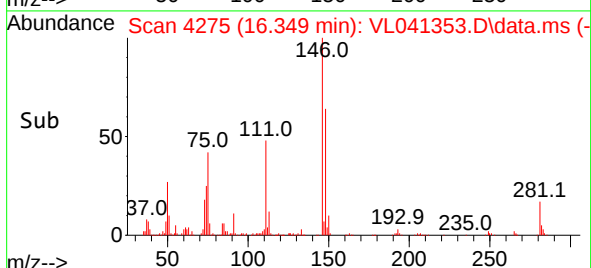
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024

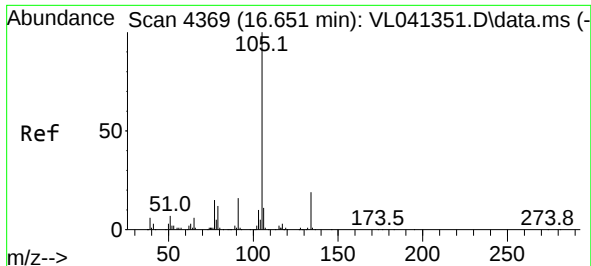


#66  
Benzyl Chloride  
Concen: 2.435 ppbv m  
RT: 16.349 min Scan# 4275  
Delta R.T. 0.006 min  
Lab File: VL041353.D  
Acq: 26 Jun 2024 9:33



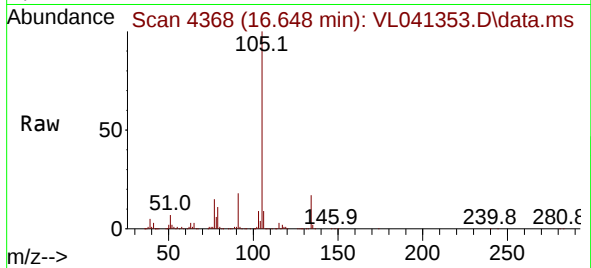
Tgt Ion: 91 Resp: 64112  
Ion Ratio Lower Upper  
91 100  
126 0.0 15.4 23.0#  
128 5.4 5.0 7.4





#67  
 sec-Butylbenzene  
 Concen: 2.440 ppbv  
 RT: 16.648 min Scan# 41  
 Delta R.T. -0.006 min  
 Lab File: VL041353.D  
 Acq: 26 Jun 2024 9:33

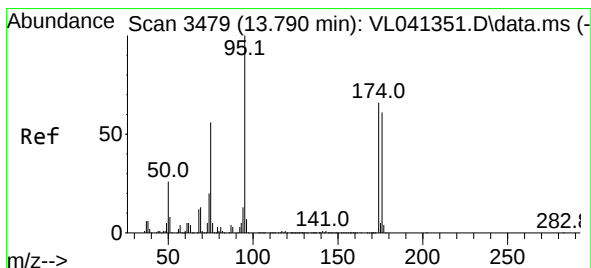
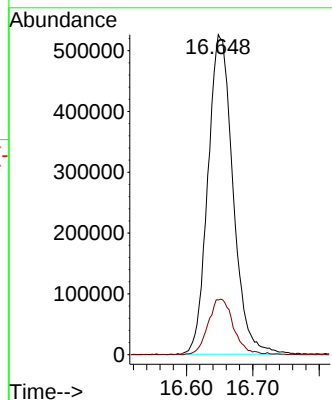
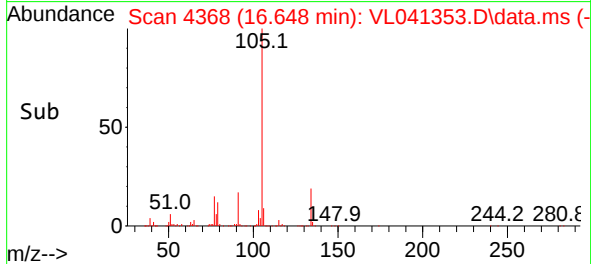
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002



Tgt Ion:105 Resp: 137948  
 Ion Ratio Lower Upper  
 105 100  
 134 17.8 14.2 21.2

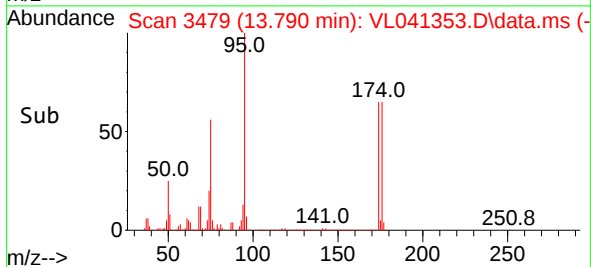
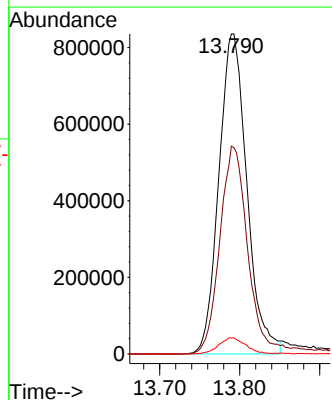
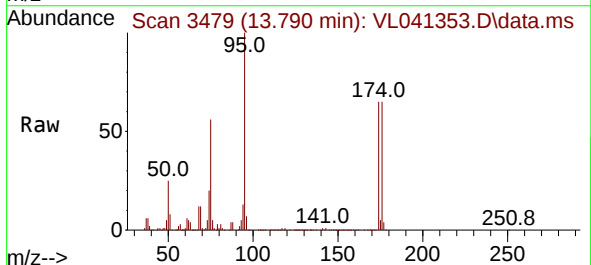
Manual Integrations  
 APPROVED

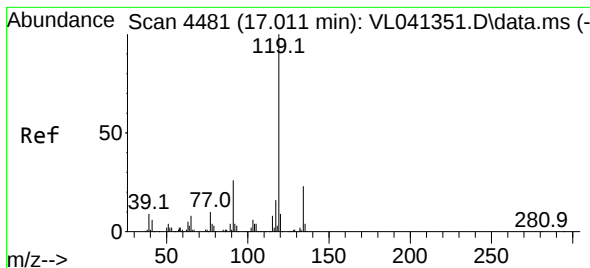
Reviewed By :Semsettin Yesilyurt 06/27/2024  
 Supervised By :Mahesh Dadoda 06/27/2024



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.261 ppbv  
 RT: 13.790 min Scan# 3479  
 Delta R.T. -0.003 min  
 Lab File: VL041353.D  
 Acq: 26 Jun 2024 9:33

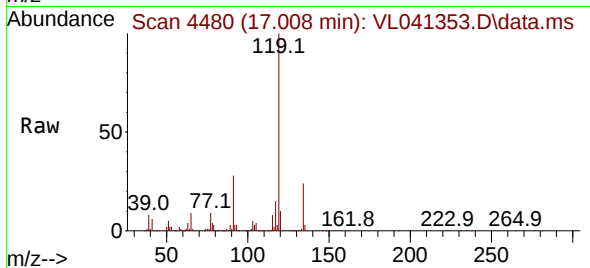
Tgt Ion: 95 Resp: 2032676  
 Ion Ratio Lower Upper  
 95 100  
 174 67.7 53.1 79.7  
 175 5.1 4.0 6.0





#69  
p-Isopropyltoluene  
Concen: 2.459 ppbv  
RT: 17.008 min Scan# 4481  
Delta R.T. -0.006 min  
Lab File: VL041353.D  
Acq: 26 Jun 2024 9:33

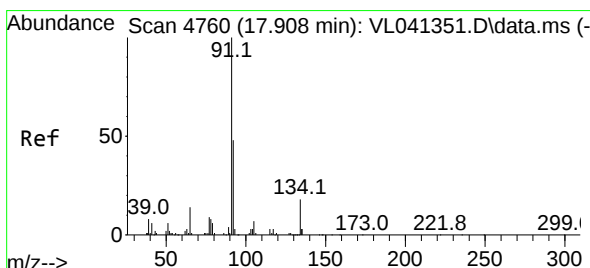
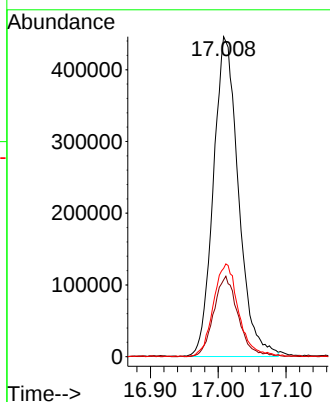
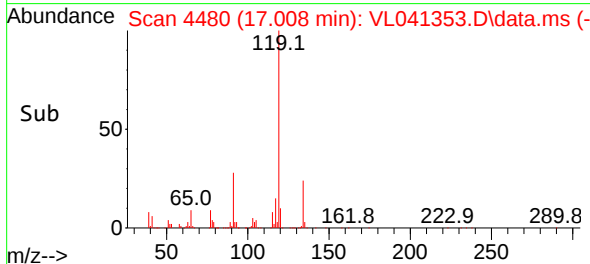
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002



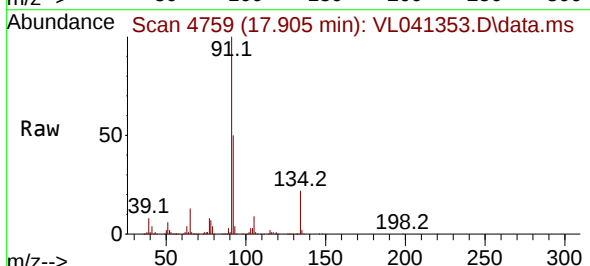
Tgt Ion: 119 Resp: 114547  
Ion Ratio Lower Upper  
119 100  
134 24.6 20.0 30.0  
91 29.2 23.7 35.5

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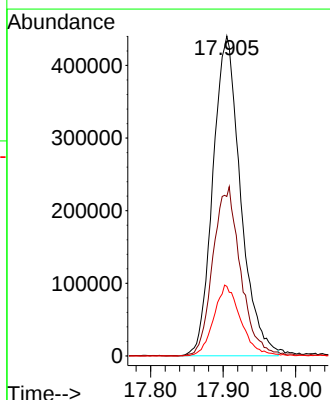
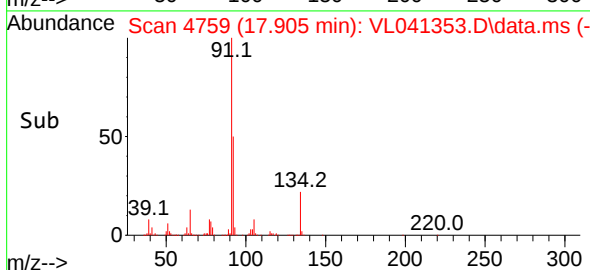
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024

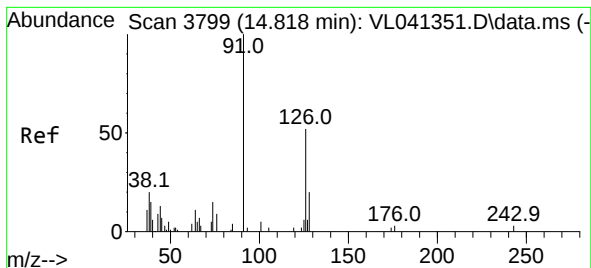


#70  
n-Butylbenzene  
Concen: 2.414 ppbv  
RT: 17.905 min Scan# 4759  
Delta R.T. 0.003 min  
Lab File: VL041353.D  
Acq: 26 Jun 2024 9:33



Tgt Ion: 91 Resp: 1166711  
Ion Ratio Lower Upper  
91 100  
92 53.3 43.0 64.6  
134 21.7 18.0 27.0





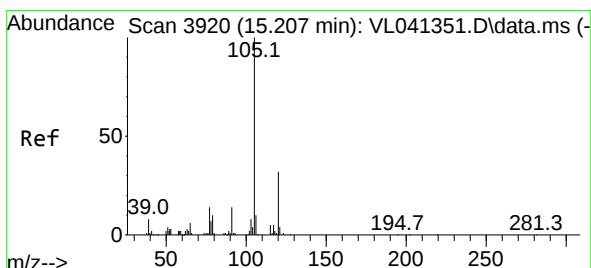
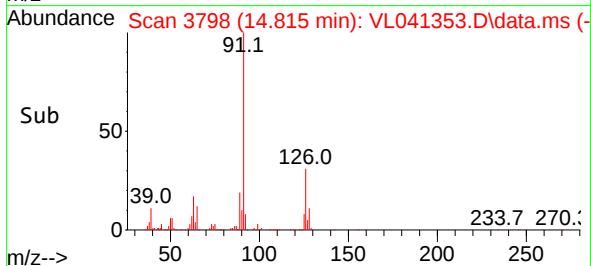
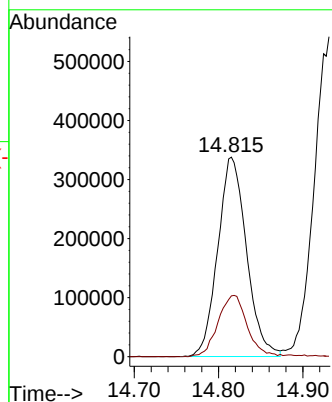
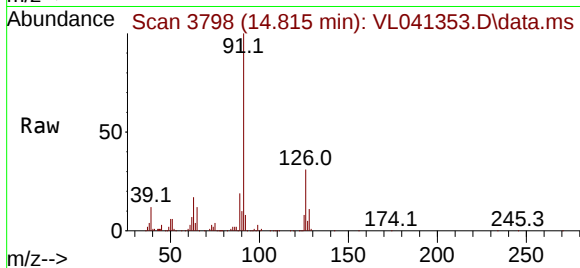
#71  
2-Chlorotoluene  
Concen: 2.319 ppbv  
RT: 14.815 min Scan# 31  
Delta R.T. -0.003 min  
Lab File: VL041353.D  
Acq: 26 Jun 2024 9:33

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion: 91 Resp: 798779  
Ion Ratio Lower Upper  
91 100  
126 31.7 12.9 51.7

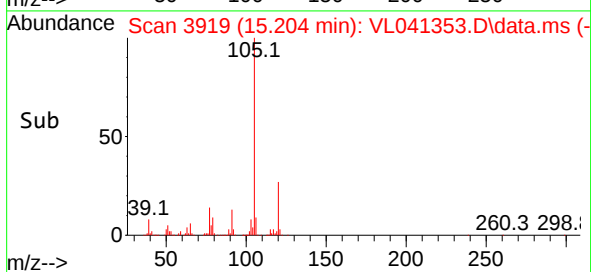
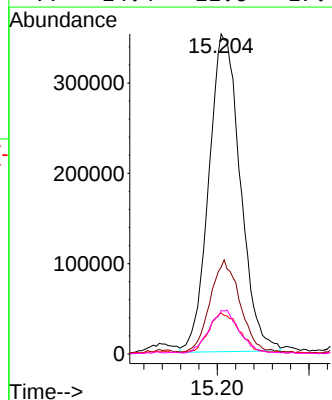
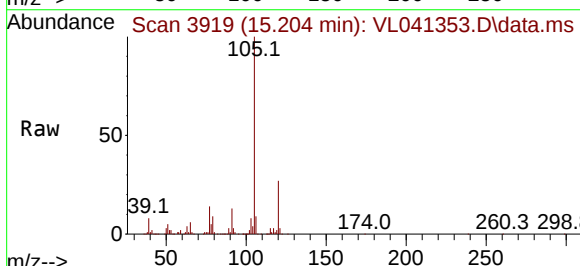
Manual Integrations  
APPROVED

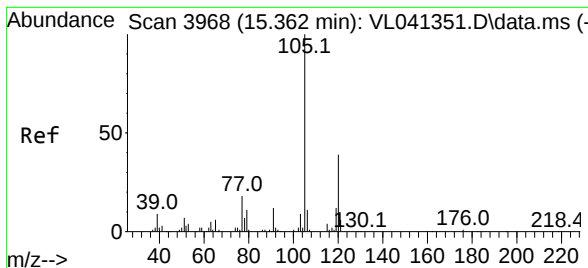
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024



#72  
4-Ethyltoluene  
Concen: 2.415 ppbv  
RT: 15.204 min Scan# 3919  
Delta R.T. -0.006 min  
Lab File: VL041353.D  
Acq: 26 Jun 2024 9:33

Tgt Ion:105 Resp: 837214  
Ion Ratio Lower Upper  
105 100  
120 29.4 24.2 36.4  
91 12.3 10.2 15.2  
77 14.4 11.6 17.4





#73

1,3,5-Trimethylbenzene

Concen: 2.310 ppbv

RT: 15.368 min Scan# 3968

Delta R.T. 0.000 min

Lab File: VL041353.D

Acq: 26 Jun 2024 9:33

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC002

Tgt Ion:105 Resp: 695292

Ion Ratio Lower Upper

105 100

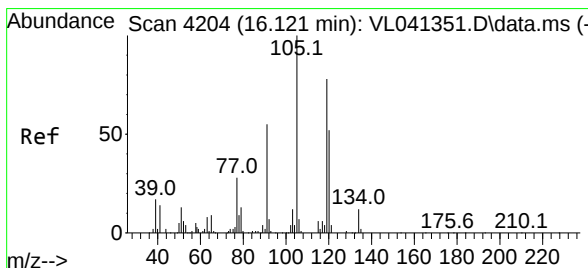
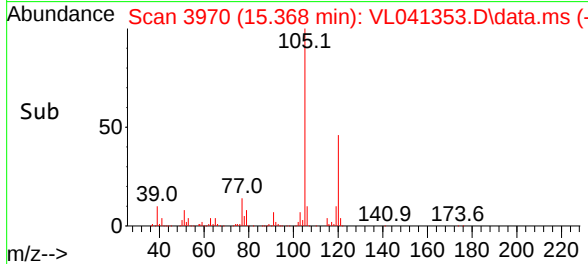
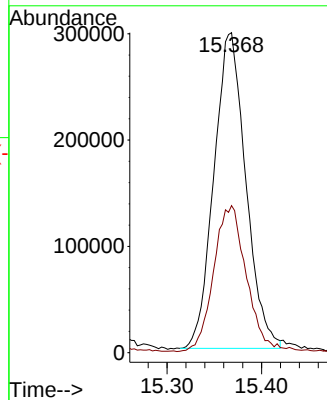
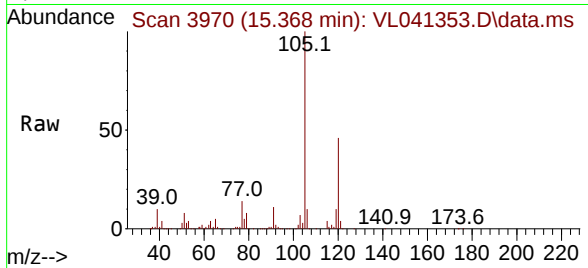
120 46.2 37.3 55.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/27/2024

Supervised By :Mahesh Dadoda 06/27/2024



#74

1,2,4-Trimethylbenzene

Concen: 2.356 ppbv

RT: 16.121 min Scan# 4204

Delta R.T. -0.006 min

Lab File: VL041353.D

Acq: 26 Jun 2024 9:33

Tgt Ion:105 Resp: 801857

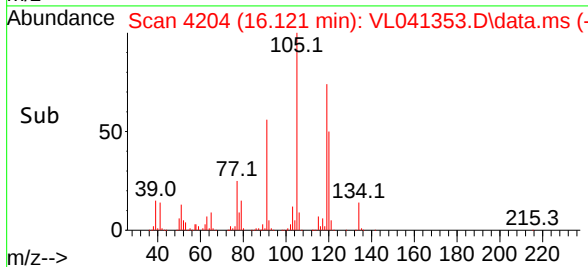
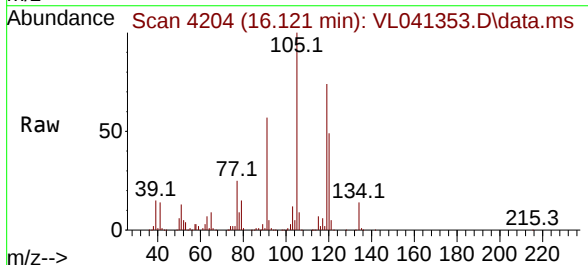
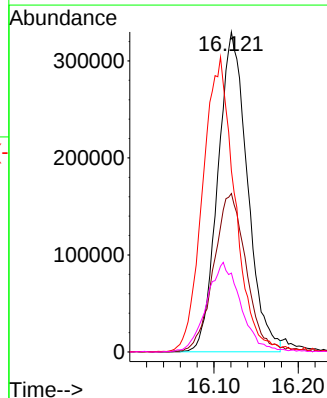
Ion Ratio Lower Upper

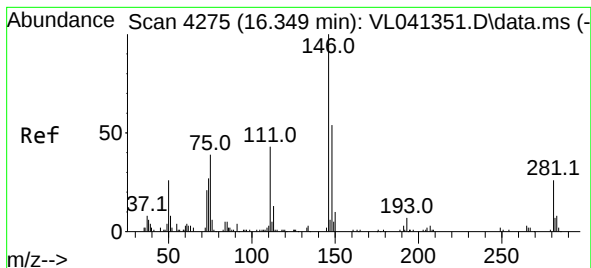
105 100

120 49.1 37.8 56.8

91 55.4 38.0 57.0

77 24.0 17.5 26.3





#75

1,3-Dichlorobenzene

Concen: 2.361 ppbv

RT: 16.346 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL041353.D

Acq: 26 Jun 2024 9:33

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC002

Tgt Ion:146 Resp: 47176

Ion Ratio Lower Upper

146 100

111 48.7 23.5 70.5

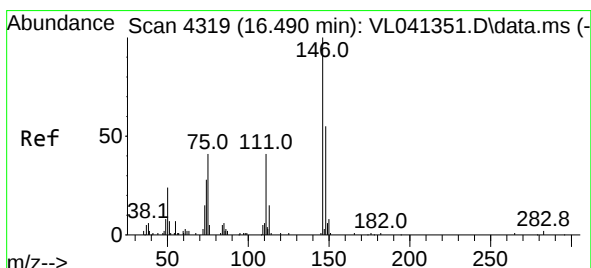
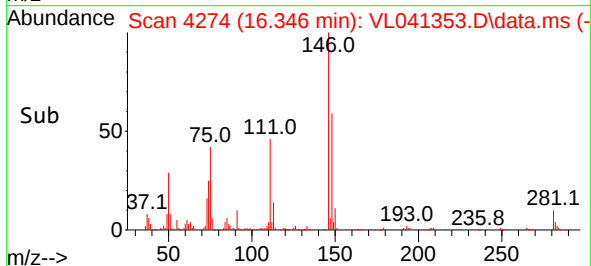
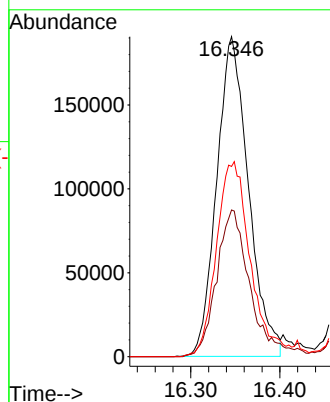
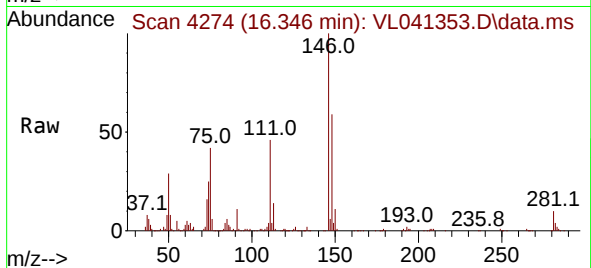
148 66.7 32.3 96.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/27/2024

Supervised By :Mahesh Dadoda 06/27/2024



#76

1,4-Dichlorobenzene

Concen: 2.303 ppbv m

RT: 16.490 min Scan# 4319

Delta R.T. 0.000 min

Lab File: VL041353.D

Acq: 26 Jun 2024 9:33

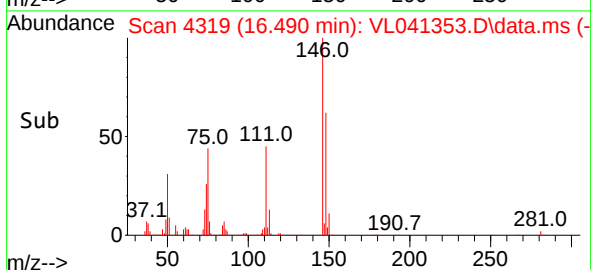
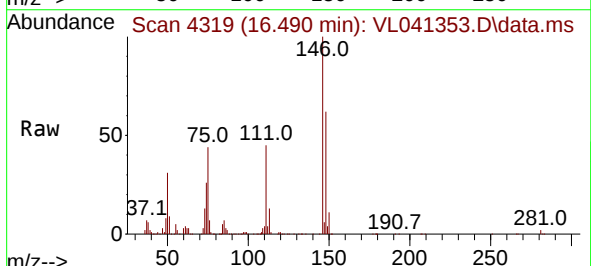
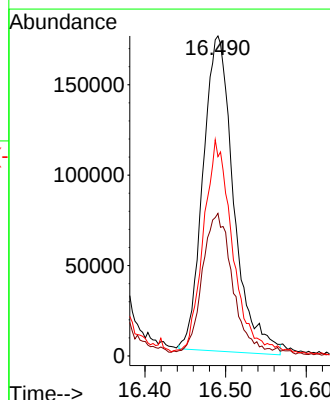
Tgt Ion:146 Resp: 459787

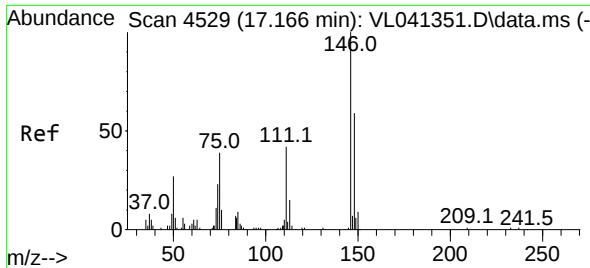
Ion Ratio Lower Upper

146 100

111 46.7 22.9 68.8

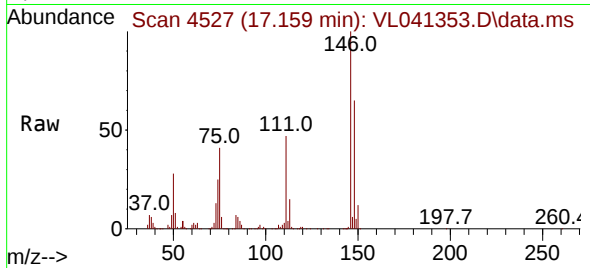
148 67.7 32.8 98.3





#77  
1,2-Dichlorobenzene  
Concen: 2.370 ppbv  
RT: 17.159 min Scan# 4529  
Delta R.T. 0.000 min  
Lab File: VL041353.D  
Acq: 26 Jun 2024 9:33

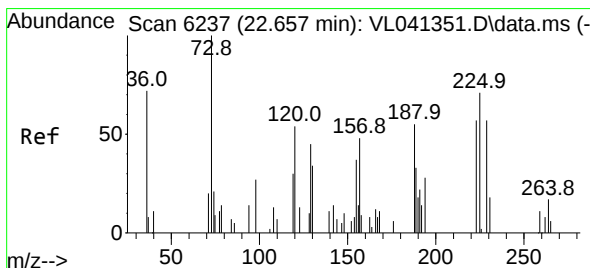
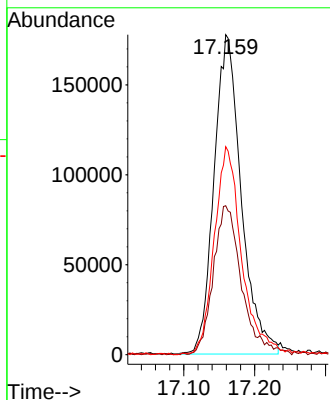
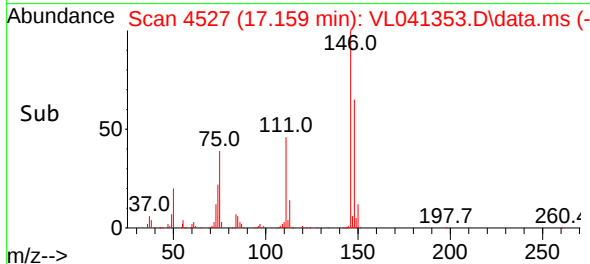
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



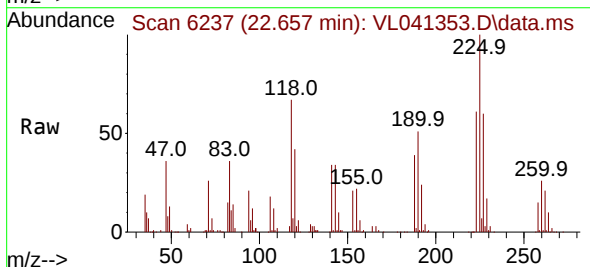
Tgt Ion:146 Resp: 473920  
Ion Ratio Lower Upper  
146 100  
111 48.9 24.1 72.2  
148 66.5 31.9 95.9

Manual Integrations  
APPROVED

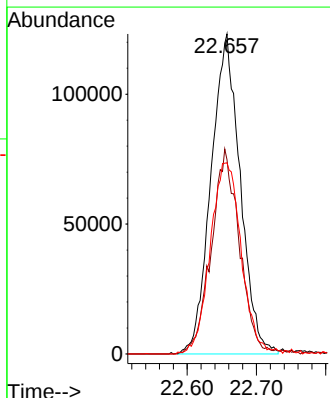
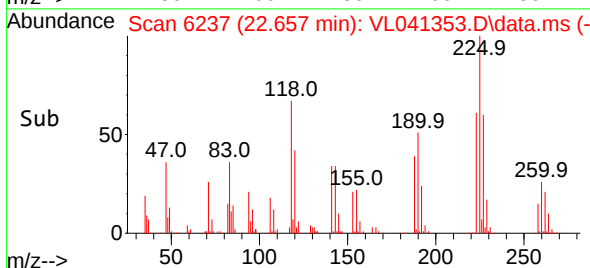
Reviewed By :Semsettin Yesilyurt 06/27/2024  
Supervised By :Mahesh Dadoda 06/27/2024

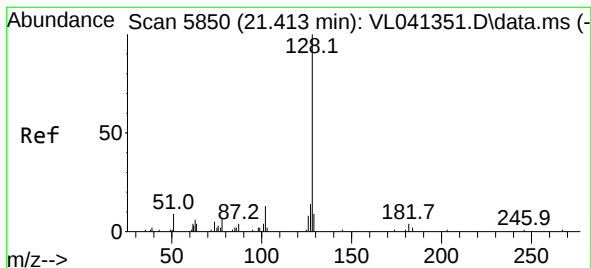


#78  
Hexachloro-1,3-Butadiene  
Concen: 2.193 ppbv  
RT: 22.657 min Scan# 6237  
Delta R.T. -0.003 min  
Lab File: VL041353.D  
Acq: 26 Jun 2024 9:33



Tgt Ion:225 Resp: 359431  
Ion Ratio Lower Upper  
225 100  
223 62.9 51.3 76.9  
227 64.2 51.8 77.8





#79

Naphthalene

Concen: 1.512 ppbv

RT: 21.419 min Scan# 5850

Delta R.T. 0.006 min

Lab File: VL041353.D

Acq: 26 Jun 2024 9:33

Instrument :

MSVOA\_L

ClientSampleId :

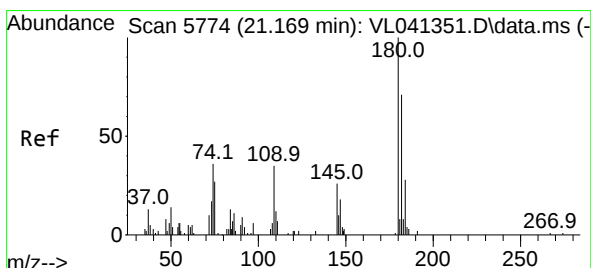
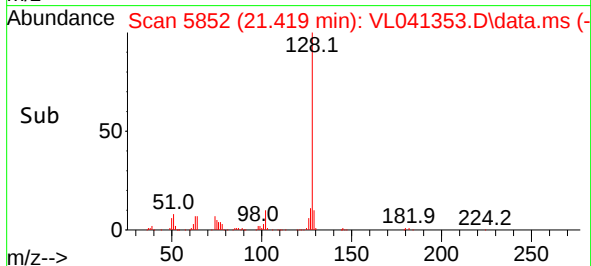
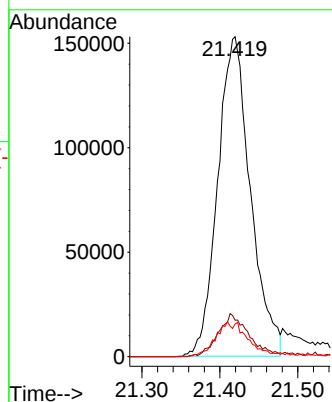
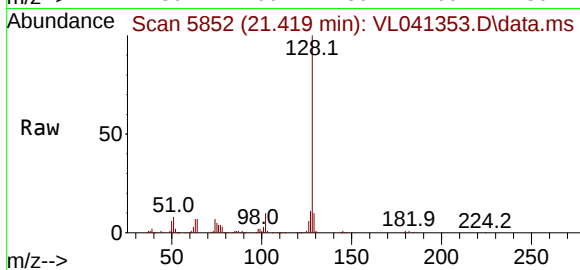
VSTDICC002

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 44639 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 127       | 11.4  | 10.8  | 16.2  |
| 129       | 10.2  | 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: 1.592 ppbv m

RT: 21.175 min Scan# 5776

Delta R.T. 0.003 min

Lab File: VL041353.D

Acq: 26 Jun 2024 9:33

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 180   | Resp: | 262223 |
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 0.0   | 78.1  | 117.1# |
| 184       | 29.7  | 25.2  | 37.8   |

