

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL102721\  
 Data File : VL037926.D  
 Acq On : 27 Oct 2021 21:29  
 Operator : SY/AP  
 Sample : M4068-13 0.40 LOD  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA L  
 ClientSampleId :  
 LOD-MDL-AIR-01-QT4-2021

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 10/28/2021  
 Supervised By : Mahesh Dadoda 10/29/2021

Quant Time: Oct 28 13:44:47 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL100421A  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:  
 QLast Update : Mon Oct 04 17:43:54 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.68  | 49   | 1342108  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.19  | 114  | 4001200  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.09 | 117  | 3372868  | 10.00 | ppbv  | 0.00     |

## System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.42  | 95    | 2423016  | 10.27    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 102.70% |

## Target Compounds

|                                |      |     |         |              | Ovalue |
|--------------------------------|------|-----|---------|--------------|--------|
| 2) Dichlorodifluoromethane     | 3.06 | 85  | 124788  | 0.582 ppbv   | 100    |
| 3) Chlorodifluoromethane       | 3.00 | 51  | 117502  | 0.456 ppbv   | 98     |
| 4) Chloromethane               | 3.15 | 50  | 41948   | 0.444 ppbv   | 100    |
| 5) Vinyl Chloride              | 3.27 | 62  | 34963   | 0.404 ppbv # | 82     |
| 6) Bromomethane                | 3.49 | 94  | 18859m  | 0.403 ppbv   |        |
| 7) Chloroethane                | 3.57 | 64  | 15482m  | 0.486 ppbv   |        |
| 8) Dichlorotetrafluoroethane   | 3.20 | 85  | 90724   | 0.428 ppbv   | 93     |
| 9) Propene                     | 3.02 | 41  | 35912m  | 0.378 ppbv   |        |
| 10) Heptane                    | 8.13 | 43  | 62892m  | 0.292 ppbv   |        |
| 11) Trichlorofluoromethane     | 3.97 | 101 | 86353m  | 0.451 ppbv   |        |
| 12) 1,1,2-Trichlorotrifluoroet | 4.50 | 101 | 65526m  | 0.452 ppbv   |        |
| 14) Bromoethene                | 3.75 | 108 | 28090m  | 0.441 ppbv   |        |
| 15) Acetone                    | 3.89 | 43  | 56912m  | 0.472 ppbv   |        |
| 16) 1,3-Butadiene              | 3.34 | 39  | 33539m  | 0.383 ppbv   |        |
| 17) tert-Butyl alcohol         | 4.33 | 59  | 47448m  | 0.382 ppbv   |        |
| 18) 1,1-Dichloroethene         | 4.30 | 96  | 26274m  | 0.399 ppbv   |        |
| 19) Isopropyl Alcohol          | 4.00 | 45  | 27685m  | 0.369 ppbv   |        |
| 20) Methylene Chloride         | 4.36 | 84  | 30578   | 0.502 ppbv   | 83     |
| 21) Allvl Chloride             | 4.42 | 41  | 44414m  | 0.416 ppbv   |        |
| 22) trans-1,2-Dichloroethene   | 4.90 | 96  | 28139m  | 0.425 ppbv   |        |
| 23) Vinyl Acetate              | 5.10 | 43  | 62934m  | 0.349 ppbv   |        |
| 24) 1,1-Dichloroethane         | 5.02 | 63  | 60876m  | 0.463 ppbv   |        |
| 25) Ethyl Acetate              | 5.70 | 43  | 122493  | 0.362 ppbv # | 92     |
| 26) Hexane                     | 5.70 | 57  | 51410m  | 0.309 ppbv   |        |
| 27) Carbon Disulfide           | 4.56 | 76  | 56053m  | 0.380 ppbv   |        |
| 28) Methyl tert-Butyl Ether    | 5.06 | 73  | 57984m  | 0.418 ppbv   |        |
| 29) Chloroform                 | 5.76 | 83  | 95756   | 0.402 ppbv   | 95     |
| 30) Cyclohexane                | 7.15 | 84  | 55014m  | 0.390 ppbv   |        |
| 31) cis-1,2-Dichloroethene     | 5.56 | 61  | 50473m  | 0.334 ppbv   |        |
| 32) 1,1,1-Trichloroethane      | 6.52 | 97  | 85146   | 0.377 ppbv   | 95     |
| 34) 2-Butanone                 | 5.27 | 43  | 57089m  | 0.353 ppbv   |        |
| 35) Carbon Tetrachloride       | 7.02 | 117 | 89608m  | 0.394 ppbv   |        |
| 36) Benzene                    | 6.90 | 78  | 105387m | 0.308 ppbv   |        |
| 37) 1,2-Dichloroethane         | 6.31 | 62  | 57714   | 0.359 ppbv # | 94     |
| 38) Trichloroethene            | 7.84 | 130 | 46666m  | 0.346 ppbv   |        |
| 39) 1,2-Dichloropropane        | 7.62 | 63  | 46157m  | 0.359 ppbv   |        |
| 40) 1,4-Dioxane                | 7.88 | 88  | 10263m  | 0.319 ppbv   |        |
| 41) Tetrahydrofuran            | 6.10 | 42  | 17116m  | 0.216 ppbv   |        |
| 42) Bromodichloromethane       | 7.80 | 83  | 82897m  | 0.351 ppbv   |        |
| 43) Methyl Methacrylate        | 8.03 | 69  | 27502m  | 0.246 ppbv   |        |
| 44) 2,2,4-Trimethylpentane     | 7.88 | 57  | 173278  | 0.302 ppbv # | 85     |

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Instrument :  
 MSVOA L  
 ClientSampleId :  
 LOD-MDL-AIR-01-QT4-2021

Manual Integrations  
 APPROVED

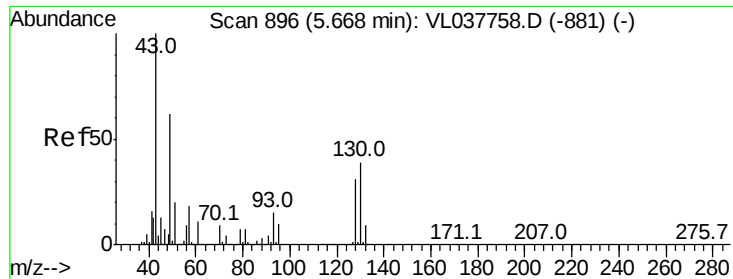
Reviewed By : Semsettin Yesilyurt 10/28/2021  
 Supervised By : Mahesh Dadoda 10/29/2021

Quant Time: Oct 28 13:44:47 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL100421A  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:  
 QLast Update : Mon Oct 04 17:43:54 2021  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| 45) t-1,3-Dichloropropene     | 9.28  | 75   | 17960m   | 0.234 | ppbv   |          |
| 46) cis-1,3-Dichloropropene   | 8.72  | 75   | 25224m   | 0.237 | ppbv   |          |
| 47) 1,1,2-Trichloroethane     | 9.48  | 97   | 51165m   | 0.366 | ppbv   |          |
| 48) Dibromochloromethane      | 10.31 | 129  | 65500m   | 0.329 | ppbv   |          |
| 49) Bromoform                 | 13.05 | 173  | 45922    | 0.301 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.78  | 43   | 56139m   | 0.267 | ppbv   |          |
| 51) 2-Hexanone                | 10.19 | 43   | 20012m   | 0.213 | ppbv   |          |
| 52) Tetrachloroethene         | 11.23 | 164  | 41049m   | 0.309 | ppbv   |          |
| 53) Toluene                   | 9.82  | 91   | 86278m   | 0.228 | ppbv   |          |
| 54) 1,2-Dibromoethane         | 10.62 | 107  | 57975m   | 0.307 | ppbv   |          |
| 56) 1,1,1,2-Tetrachloroethane | 12.13 | 131  | 59352    | 0.425 | ppbv # | 1        |
| 57) Chlorobenzene             | 12.15 | 112  | 126319m  | 0.457 | ppbv   |          |
| 58) Ethyl Benzene             | 12.72 | 91   | 112332m  | 0.248 | ppbv   |          |
| 59) m/p-Xylene                | 13.01 | 91   | 229081m  | 0.589 | ppbv   |          |
| 60) o-Xylene                  | 13.70 | 91   | 101662   | 0.273 | ppbv   | 98       |
| 61) Styrene                   | 13.53 | 104  | 34454m   | 0.191 | ppbv   |          |
| 62) Isopropylbenzene          | 14.67 | 105  | 176744   | 0.340 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.68 | 83   | 109340   | 0.380 | ppbv   | 93       |
| 64) n-propylbenzene           | 15.56 | 120  | 42103m   | 0.325 | ppbv   |          |
| 65) tert-Butylbenzene         | 16.76 | 119  | 140249   | 0.307 | ppbv   | 95       |
| 66) Benzyl Chloride           | 17.00 | 91   | 5739m    | 0.254 | ppbv   |          |
| 67) sec-Butylbenzene          | 17.31 | 105  | 205042m  | 0.328 | ppbv   |          |
| 69) p-Isopropyltoluene        | 17.66 | 119  | 138785m  | 0.274 | ppbv   |          |
| 70) n-Butylbenzene            | 18.56 | 91   | 135194m  | 0.281 | ppbv   |          |
| 71) 2-Chlorotoluene           | 15.46 | 91   | 99712    | 0.272 | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 15.85 | 105  | 116570m  | 0.276 | ppbv   |          |
| 73) 1,3,5-Trimethylbenzene    | 16.00 | 105  | 113458m  | 0.295 | ppbv   |          |
| 74) 1,2,4-Trimethylbenzene    | 16.77 | 105  | 128627   | 0.319 | ppbv   | 94       |
| 75) 1,3-Dichlorobenzene       | 17.00 | 146  | 104820m  | 0.419 | ppbv   |          |
| 76) 1,4-Dichlorobenzene       | 17.15 | 146  | 82149m   | 0.344 | ppbv   |          |
| 77) 1,2-Dichlorobenzene       | 17.82 | 146  | 93921m   | 0.391 | ppbv   |          |
| 78) Hexachloro-1,3-Butadiene  | 23.38 | 225  | 83251m   | 0.425 | ppbv   |          |
| 79) Naphthalene               | 22.21 | 128  | 41291m   | 0.167 | ppbv   |          |
| 80) Naphthalene,2-methyl-     | 25.10 | 142  | 1045     | 0.016 | ppbv   | 87       |
| 81) 1,2,4-Trichlorobenzene    | 21.93 | 180  | 40987m   | 0.259 | ppbv   |          |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument: MSVOA\_1

Delta R.T. ClientSampleId:

Lab File: LOD-MDL-AIR-01-QT4-2021

Acq: 27 Oct 2021 21:29

Tot Ion:

Ion Ratio

49 100

128 54.

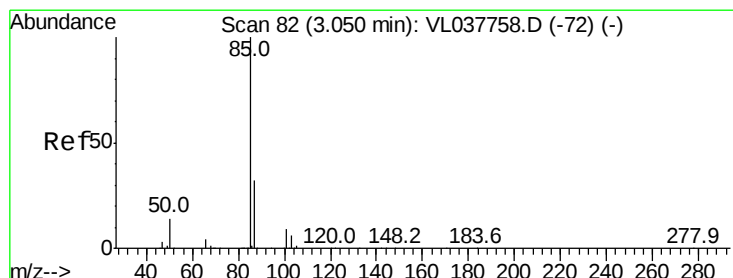
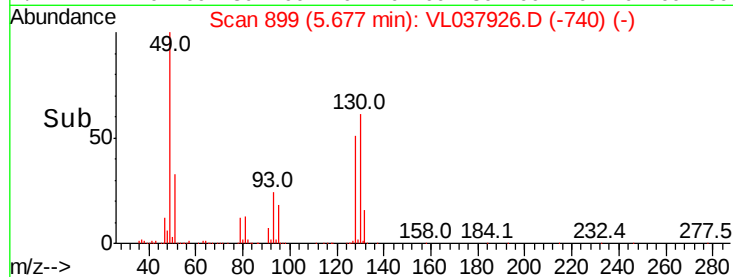
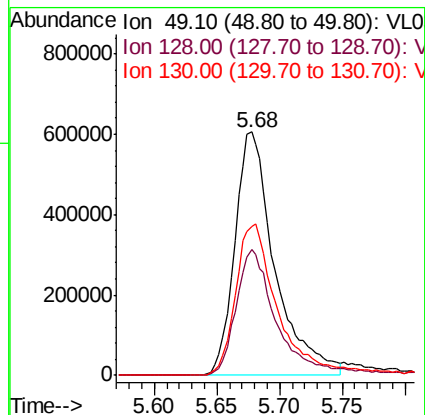
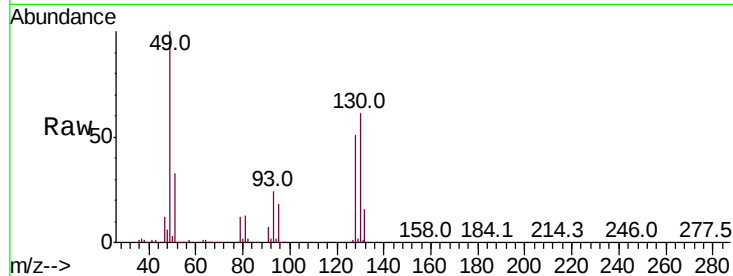
130 67.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2021

Supervised By :Mahesh Dadoda 10/29/2021



#2

Dichlorodifluoromethane

Concen: 0.582 ppbv

RT: 3.06 min Scan# 85

Delta R.T. 0.01 min

Lab File: VL037926.D

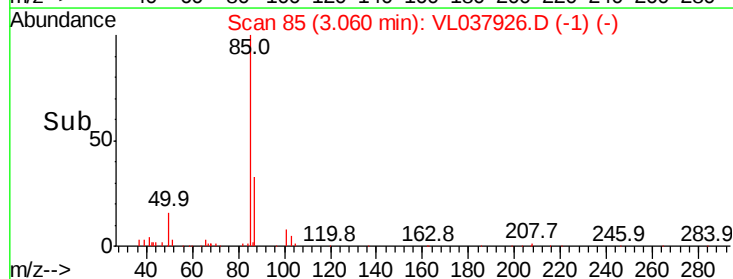
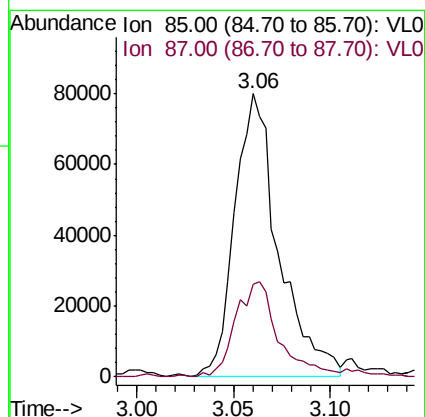
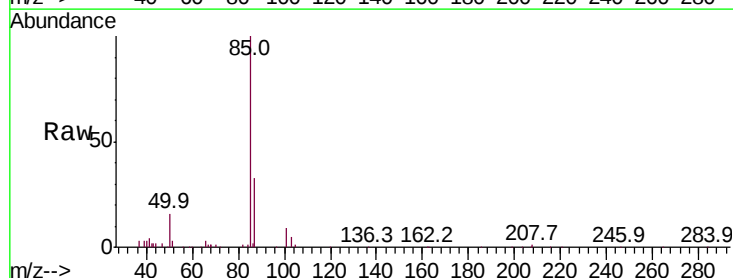
Acq: 27 Oct 2021 21:29

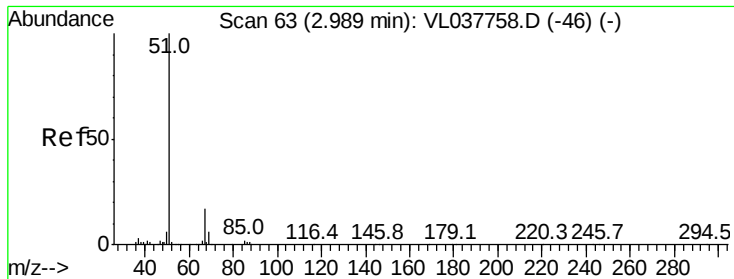
Tgt Ion: 85 Resp: 124788

Ion Ratio Lower Upper

85 100

87 32.3 25.7 38.5





#3

Chlorodifluoromethane

Concen: 0.456 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 27 Oct 2021 21:29 LOD-MDL-AIR-01-QT4-2021

Tot Ion:

Ion Ratio

51 100

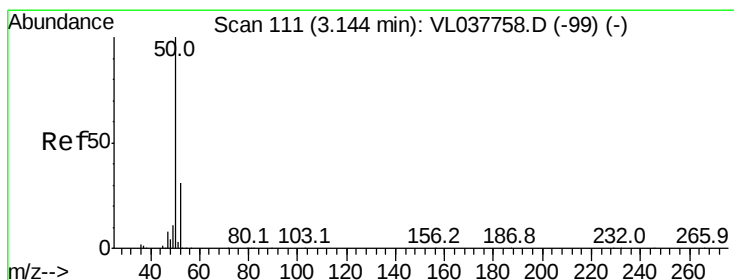
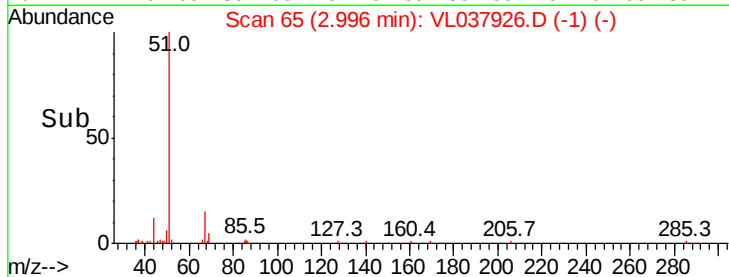
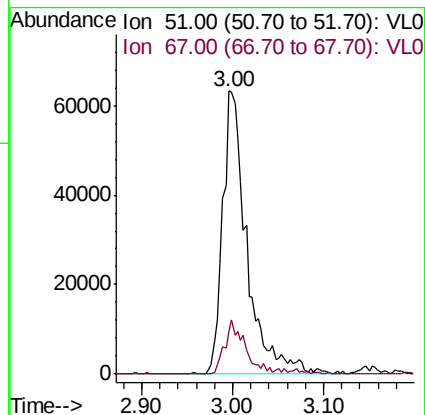
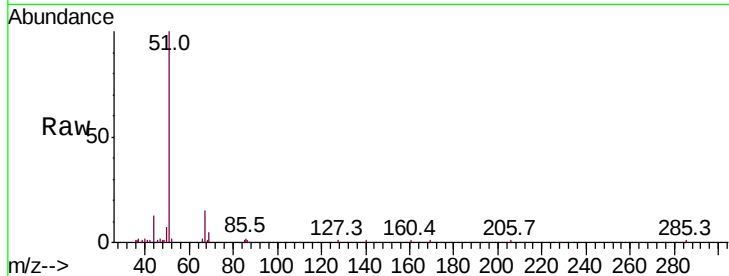
67 17.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2021

Supervised By :Mahesh Dadoda 10/29/2021



#4

Chloromethane

Concen: 0.444 ppbv

RT: 3.15 min Scan# 114

Delta R.T. 0.01 min

Lab File: VL037926.D

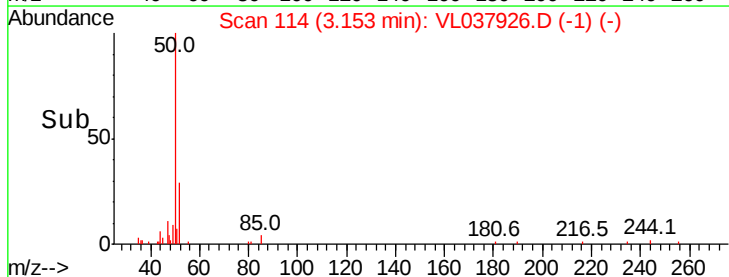
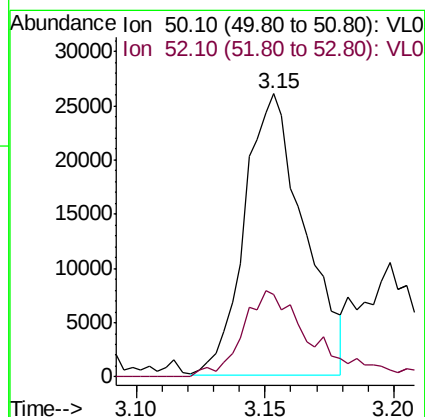
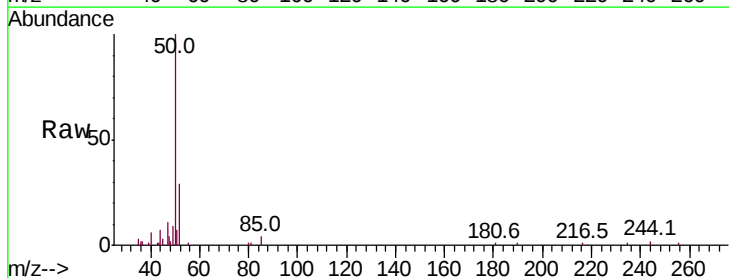
Acq: 27 Oct 2021 21:29

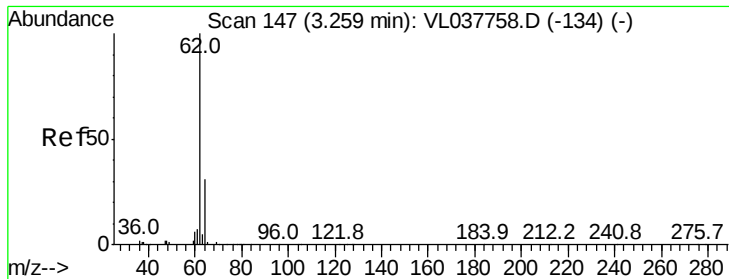
Tgt Ion: 50 Resp: 41948

Ion Ratio Lower Upper

50 100

52 30.4 24.4 36.6





#5

Vinyl Chloride

Concen: 0.404 ppbv

RT: 3.27 Instrument:

Delta R.T. MSVOA\_1

Lab File: ClientSampleId:

Acq: 27 Oct 2021 21:29 LOD-MDL-AIR-01-QT4-2021

Tot Ion:

Ion Ratio

62 100

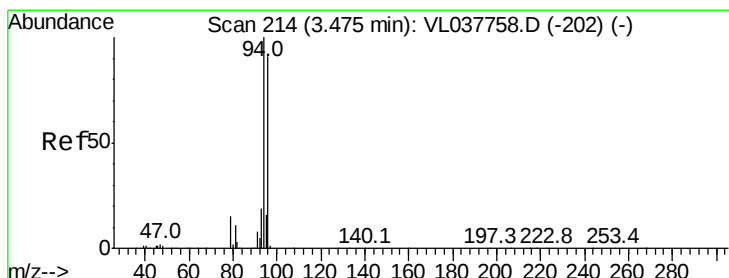
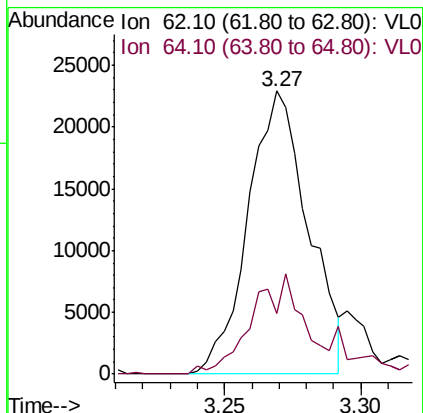
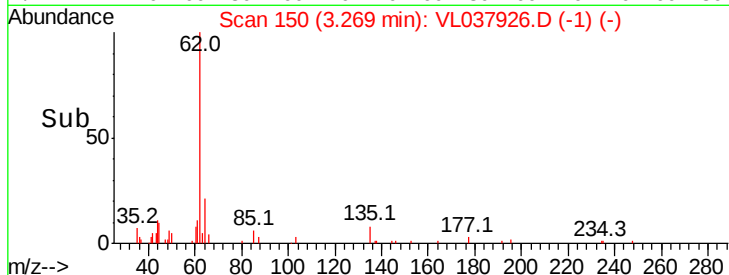
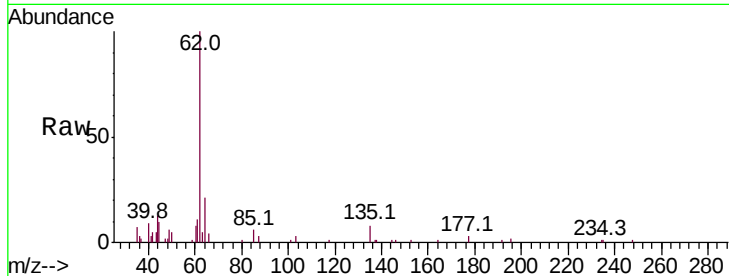
64 21.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2021

Supervised By :Mahesh Dadoda 10/29/2021



#6

Bromomethane

Concen: 0.403 ppbv m

RT: 3.49 min Scan# 219

Delta R.T. 0.02 min

Lab File: VL037926.D

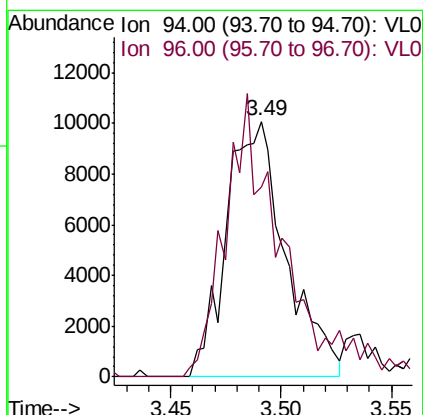
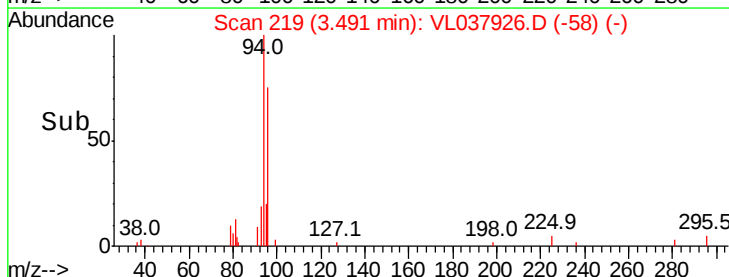
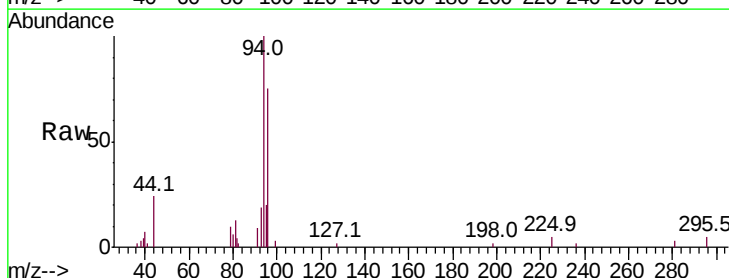
Acq: 27 Oct 2021 21:29

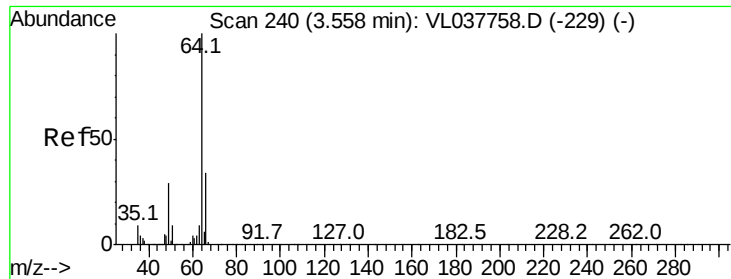
Tgt Ion: 94 Resp: 18859

Ion Ratio Lower Upper

94 100

96 74.5 72.5 108.7





#7

Chloroethane

Concen: 0.486 ppbv m

RT: 3.57 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 27 Oct 2021 21:29 LOD-MDL-AIR-01-QT4-2021

Tot Ion:

Ion Ratio

64 100

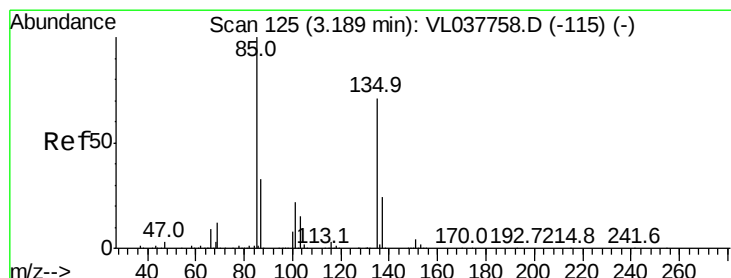
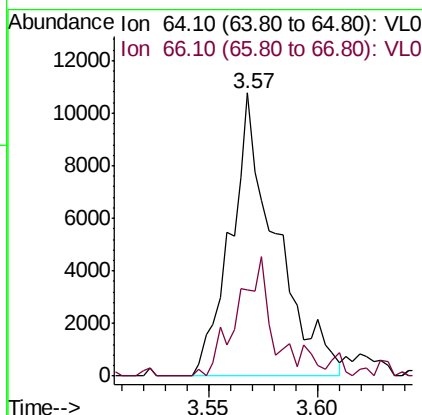
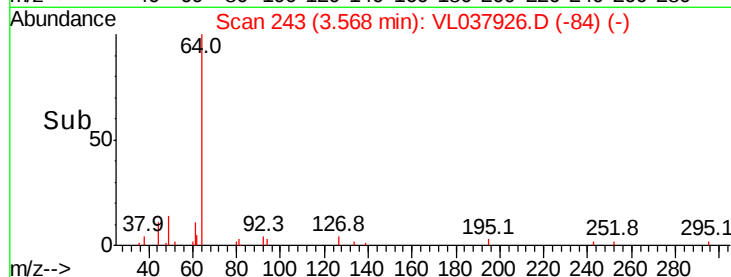
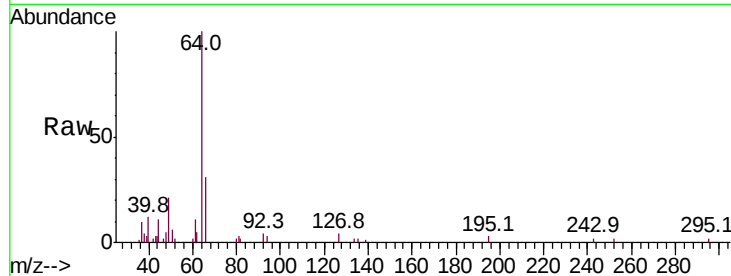
66 30.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2021

Supervised By :Mahesh Dadoda 10/29/2021



#8

Dichlorotetrafluoroethane

Concen: 0.428 ppbv

RT: 3.20 min Scan# 128

Delta R.T. 0.01 min

Lab File: VL037926.D

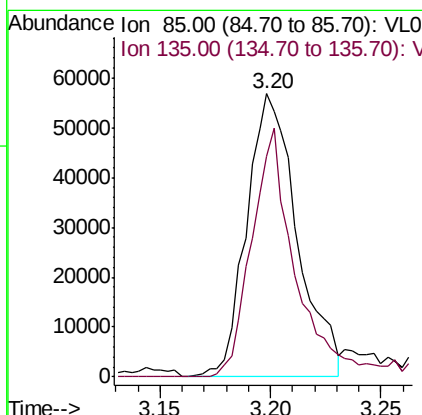
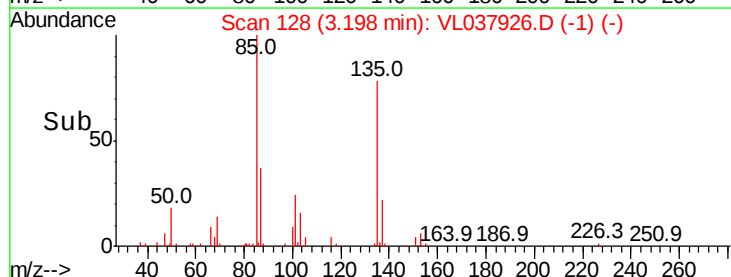
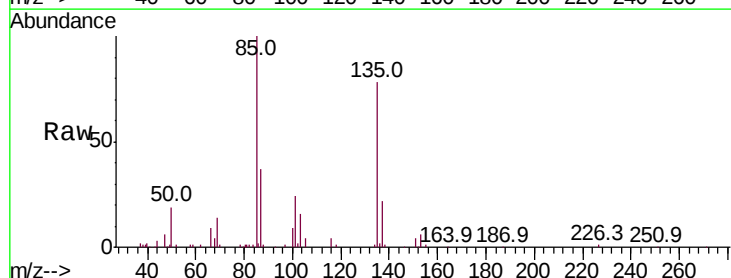
Acq: 27 Oct 2021 21:29

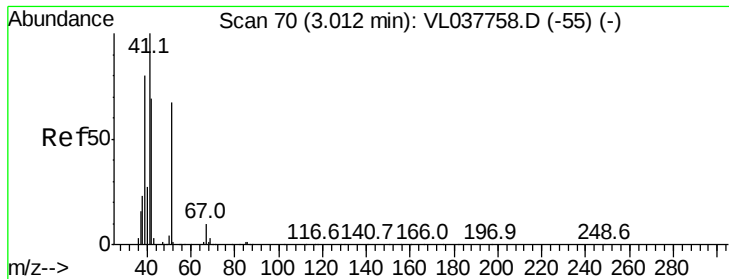
Tgt Ion: 85 Resp: 90724

Ion Ratio Lower Upper

85 100

135 80.0 59.5 89.3





#9

Propene

Concen: 0.378 ppbv m

RT: 3.02

Delta R.T. MSVOA\_L

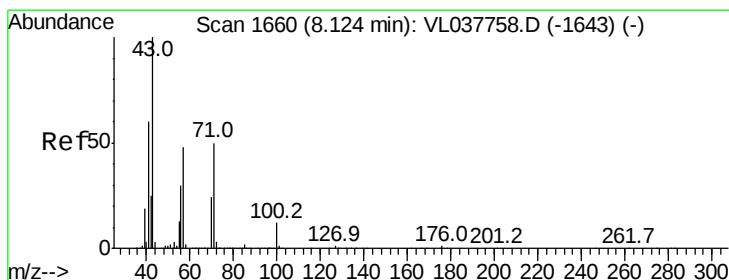
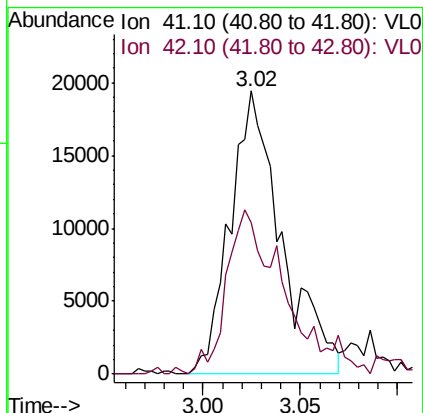
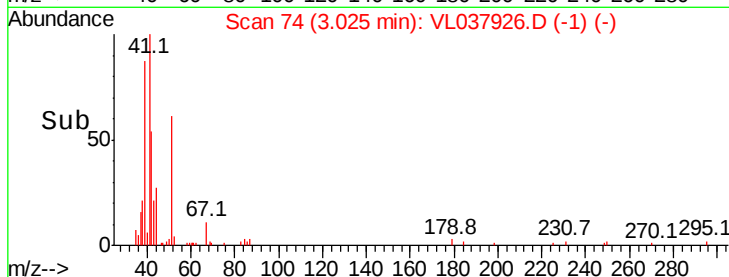
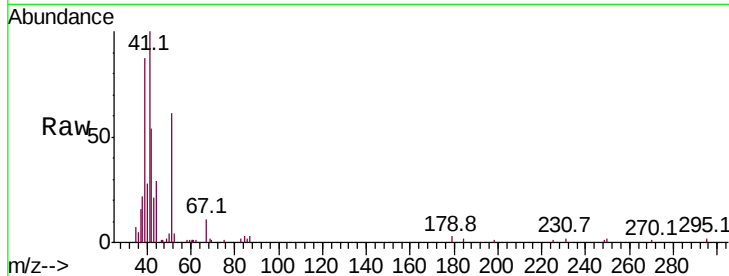
Lab File: ClientSampleId:

Acq: 27 Oct 2021 21:29

Manual Integrations  
APPROVED

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Supervised By :Mahesh Dadoda 10/29/2021

Tot Ion:  
Ion Ratio  
41 100  
42 69.



#10

Heptane

Concen: 0.292 ppbv m

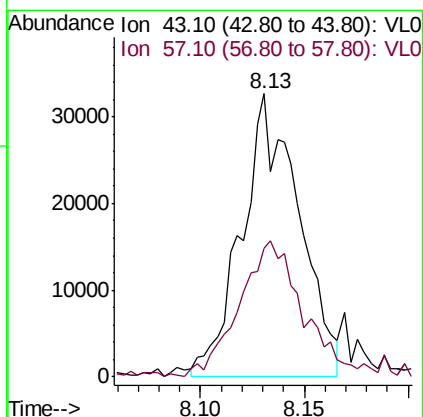
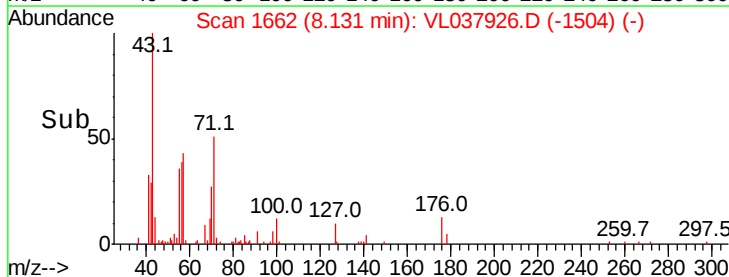
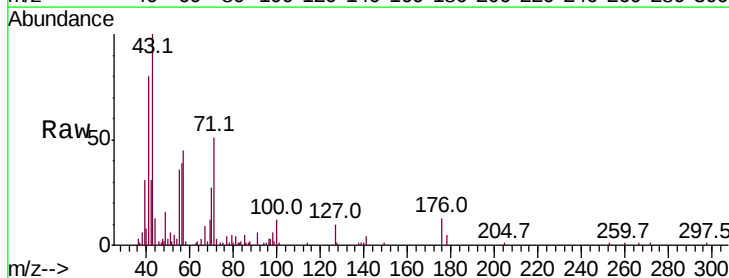
RT: 8.13 min Scan# 1662

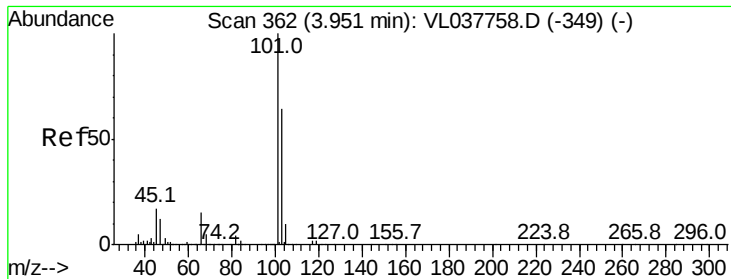
Delta R.T. 0.01 min

Lab File: VL037926.D

Acq: 27 Oct 2021 21:29

Tgt Ion: 43 Resp: 62892  
Ion Ratio Lower Upper  
43 100  
57 53.0 40.0 60.0



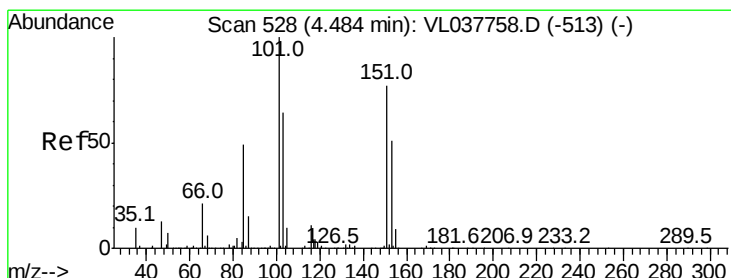
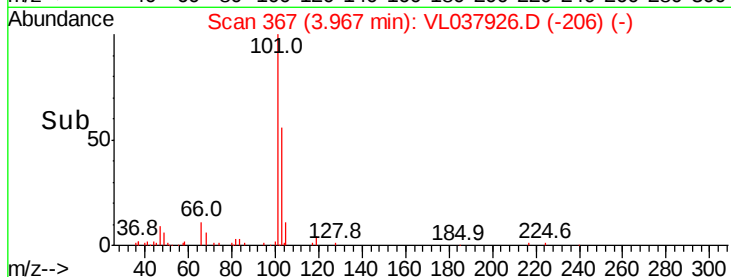
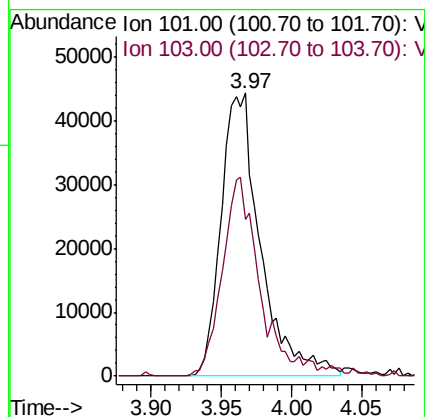
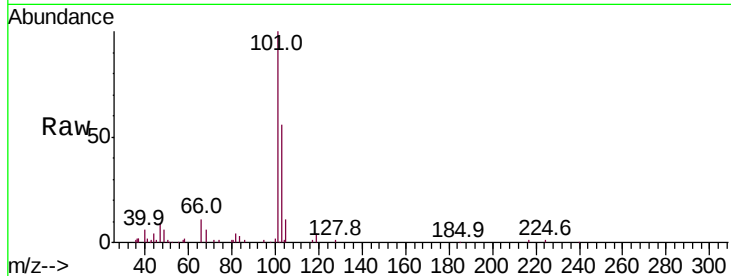


#11  
 Trichlorofluoromethane  
 Concen: 0.451 ppbv m  
 RT: 3.97  
 Instrument: MSVOA\_1  
 Delta R.T.  
 Lab File: ClientSampleId :  
 LOD-MDL-AIR-01-QT4-2021  
 Acq: 27 Oct 2021 21:29

Tot Ion:1  
 Ion Rati  
 101 100  
 103 55.

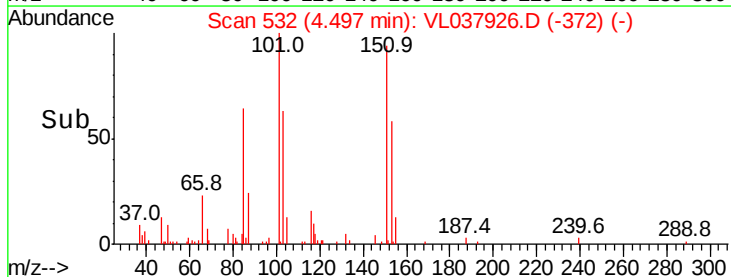
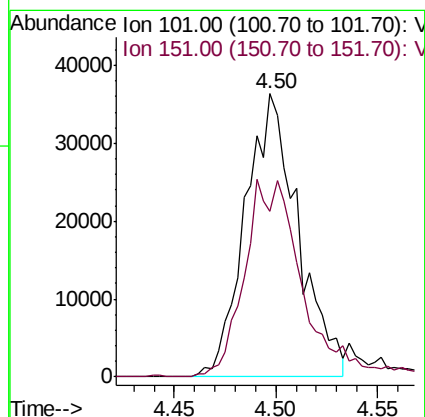
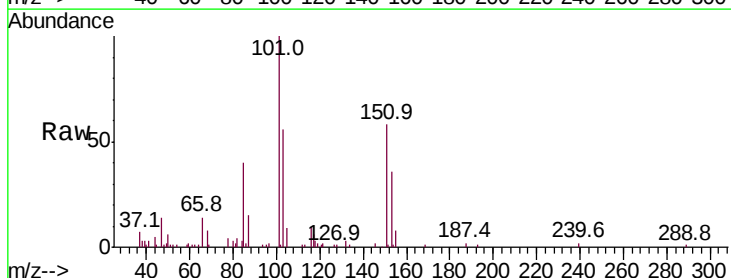
Manual Integrations  
 APPROVED

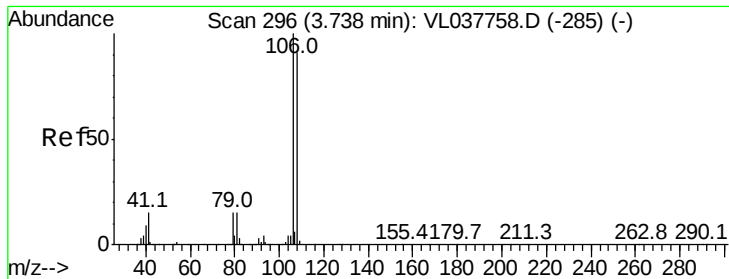
Reviewed By :Semsettin Yesilyurt 10/28/2021  
 Supervised By :Mahesh Dadoda 10/29/2021



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 0.452 ppbv m  
 RT: 4.50 min Scan# 532  
 Delta R.T. 0.01 min  
 Lab File: VL037926.D  
 Acq: 27 Oct 2021 21:29

Tgt Ion:101 Resp: 65526  
 Ion Ratio Lower Upper  
 101 100  
 151 76.7 62.9 94.3





#14

Bromoethene

Concen: 0.441 ppbv m

RT: 3.75 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 27 Oct 2021 21:29 LOD-MDL-AIR-01-QT4-2021

Tot Ion:1

Ion Rati

108 100

106 104.

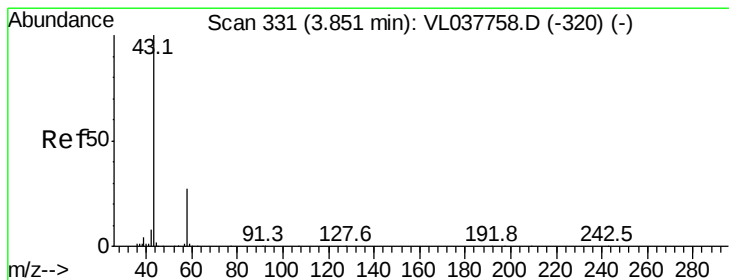
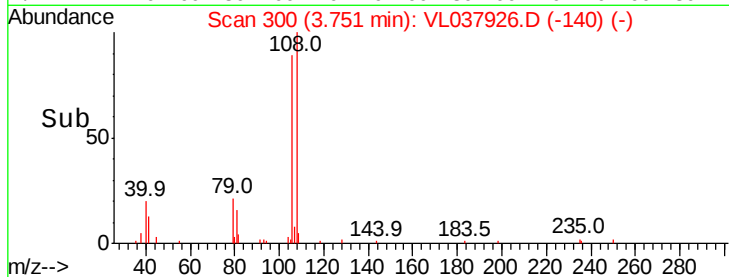
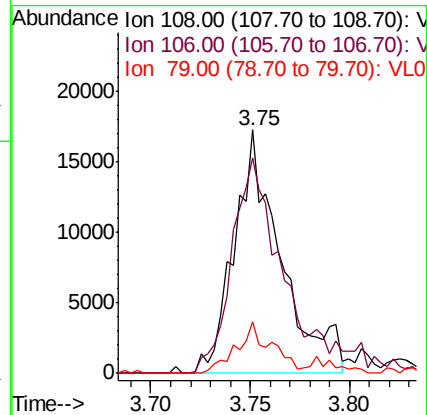
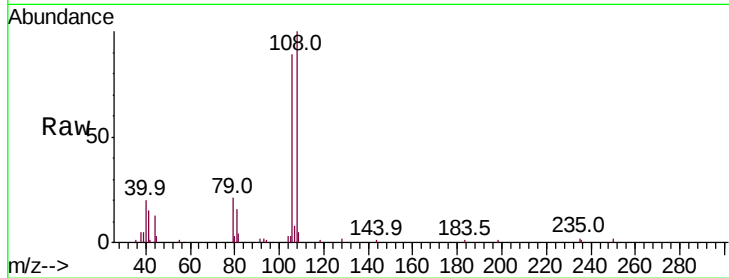
79 19.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/28/2021

Supervised By :Mahesh Dadoda 10/29/2021



#15

Acetone

Concen: 0.472 ppbv m

RT: 3.89 min Scan# 342

Delta R.T. 0.04 min

Lab File: VL037926.D

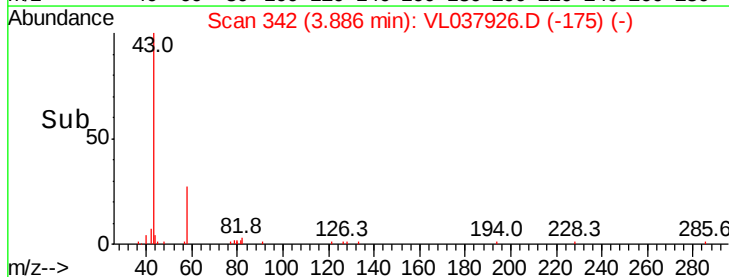
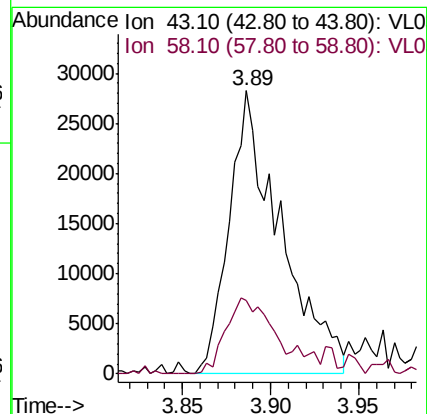
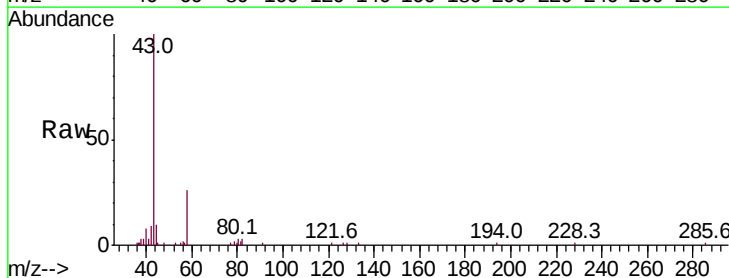
Acq: 27 Oct 2021 21:29

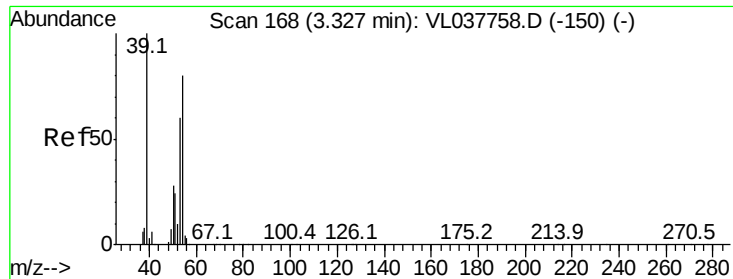
Tgt Ion: 43 Resp: 56912

Ion Ratio Lower Upper

43 100

58 32.6 23.0 34.6





#16

1,3-Butadiene

Concen: 0.383 ppbv m

RT: 3.34 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 27 Oct 2021 21:29 LOD-MDL-AIR-01-QT4-2021

Tot Ion:

Ion Ratio

39 100

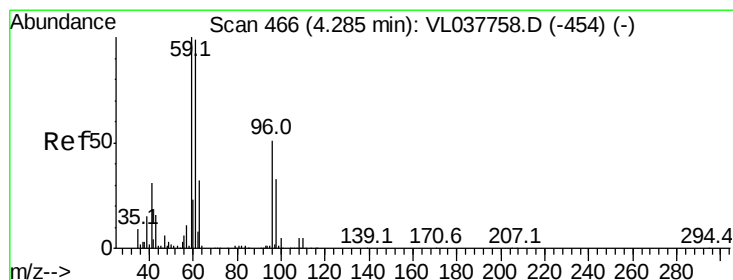
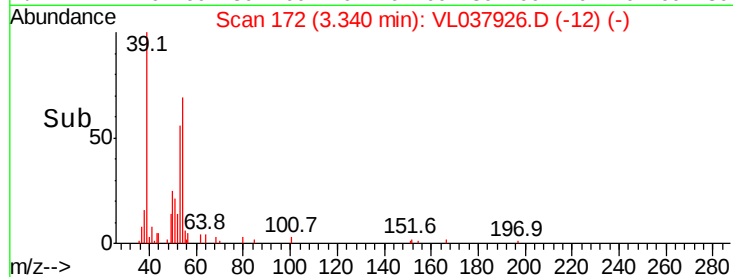
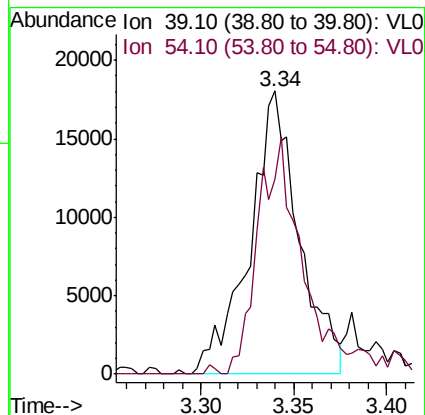
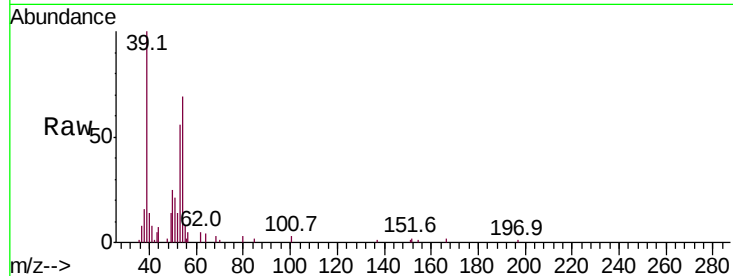
54 80.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/28/2021

Supervised By :Mahesh Dadoda 10/29/2021



#17

tert-Butyl alcohol

Concen: 0.382 ppbv m

RT: 4.33 min Scan# 479

Delta R.T. 0.04 min

Lab File: VL037926.D

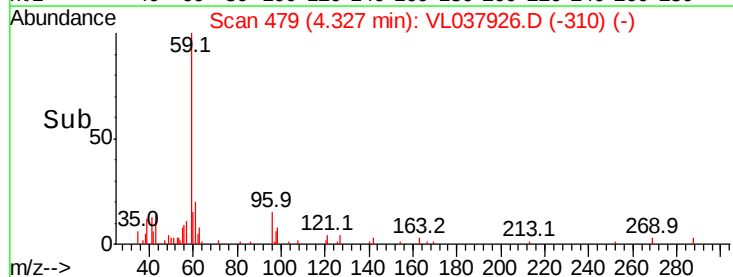
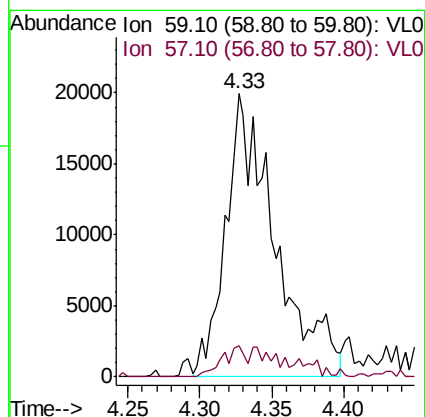
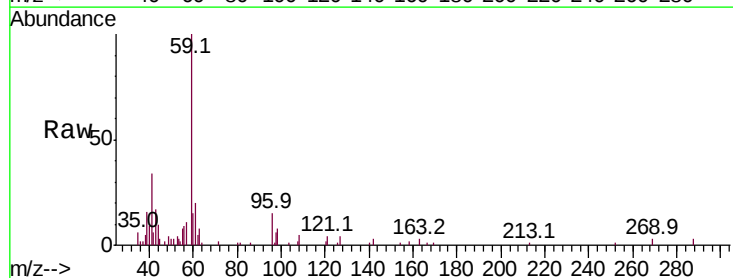
Acq: 27 Oct 2021 21:29

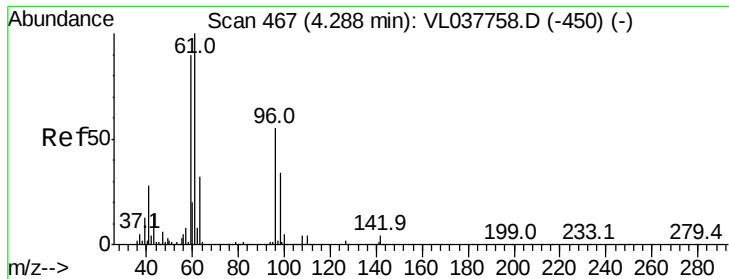
Tgt Ion: 59 Resp: 47448

Ion Ratio Lower Upper

59 100

57 0.0 8.6 13.0#





#18

1,1-Dichloroethene

Concen: 0.399 ppbv m

RT: 4.30 Instrument:

Delta R.T. MSVOA\_1

Lab File: ClientSampleId:

Acq: 27 Oct 2021 21:29 LOD-MDL-AIR-01-QT4-2021

Tot Ion:

Ion Ratio

96 100

61 194.

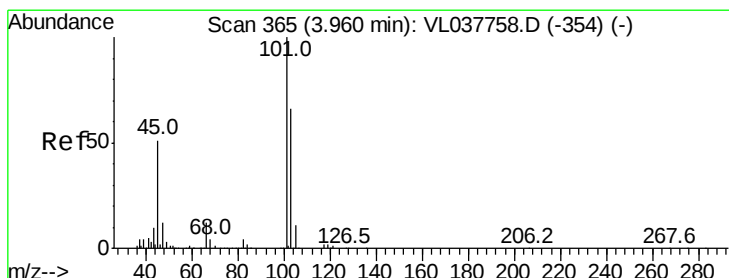
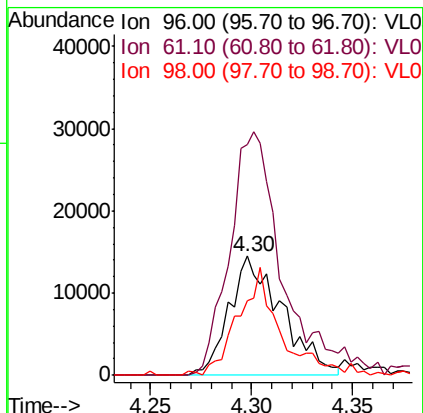
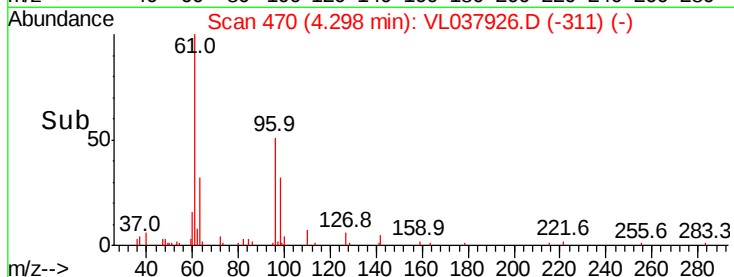
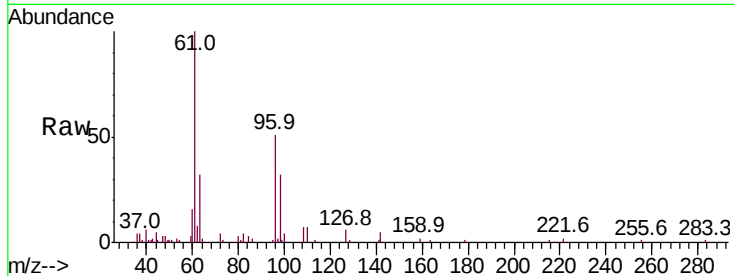
98 63.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/28/2021

Supervised By :Mahesh Dadoda 10/29/2021



#19

Isopropyl Alcohol

Concen: 0.369 ppbv m

RT: 4.00 min Scan# 378

Delta R.T. 0.04 min

Lab File: VL037926.D

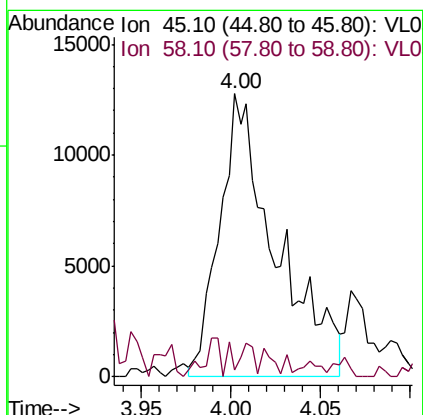
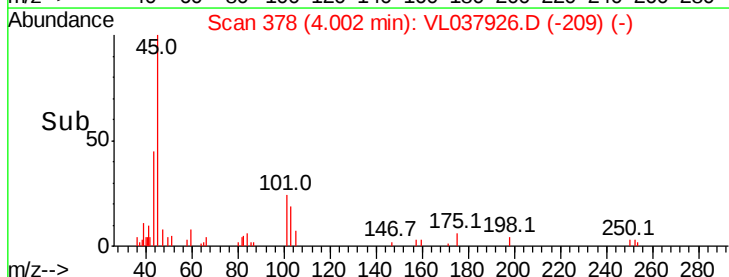
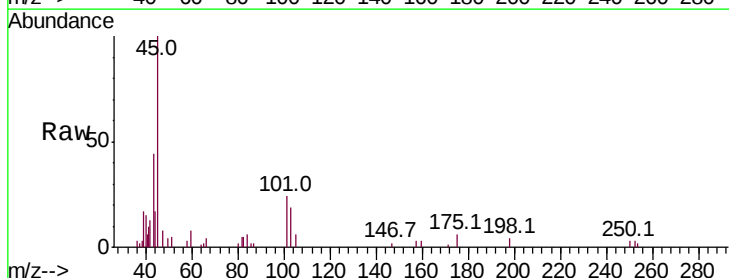
Acq: 27 Oct 2021 21:29

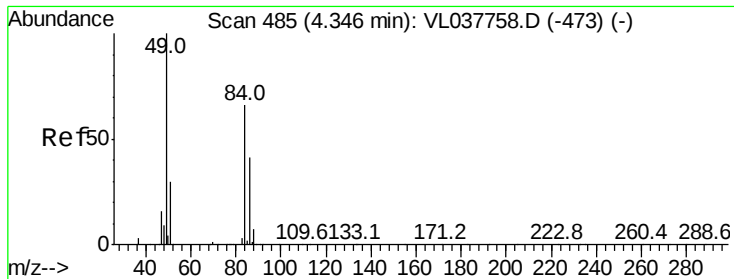
Tgt Ion: 45 Resp: 27685

Ion Ratio Lower Upper

45 100

58 10.7 1.1 1.7#





#20

Methvlene Chloride

Concen: 0.502 ppbv

RT: 4.36 Instrument:

Delta R.T. MSVOA\_1

Lab File: ClientSampleId:

Acq: 27 Oct 2021 21:29 LOD-MDL-AIR-01-QT4-2021

Tot Ion:

Ion Ratio

84 100

49 121.

51 40.

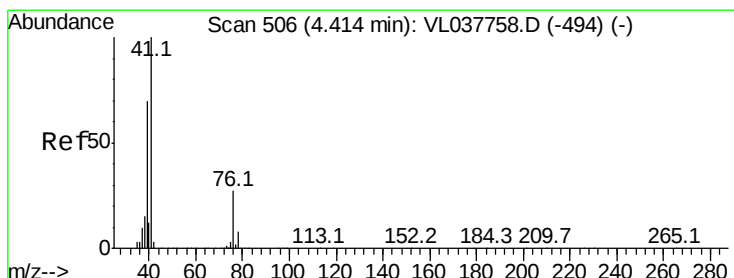
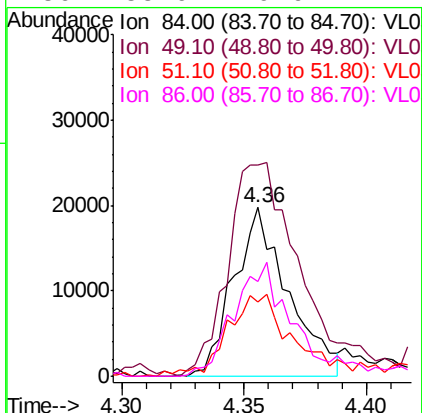
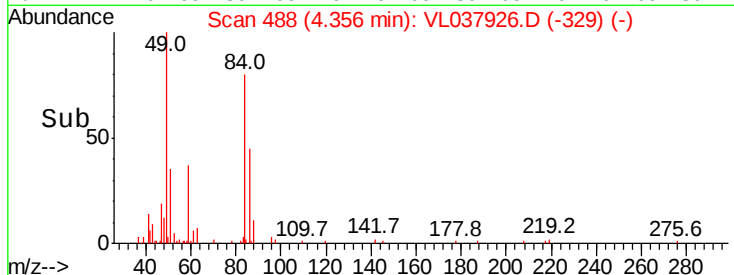
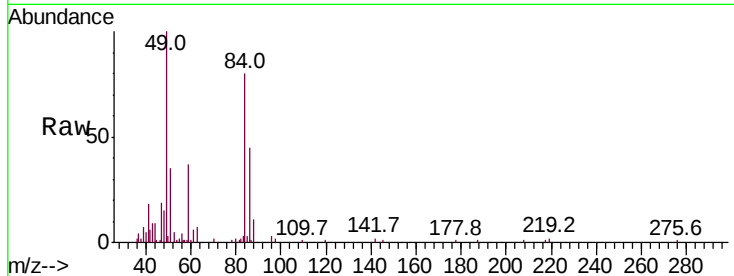
86 55.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/28/2021

Supervised By :Mahesh Dadoda 10/29/2021



#21

Allyl Chloride

Concen: 0.416 ppbv m

RT: 4.42 min Scan# 508

Delta R.T. 0.01 min

Lab File: VL037926.D

Acq: 27 Oct 2021 21:29

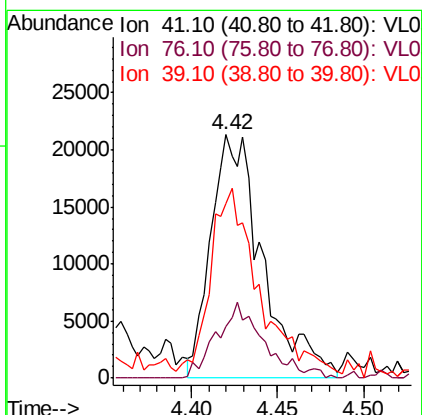
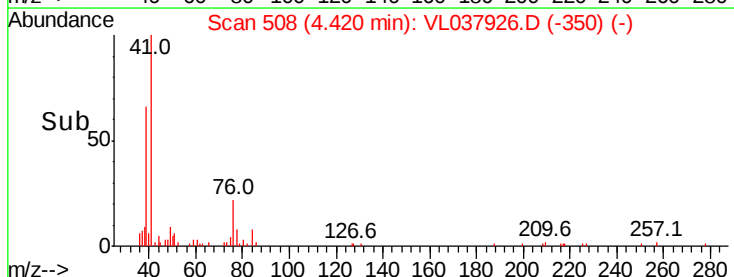
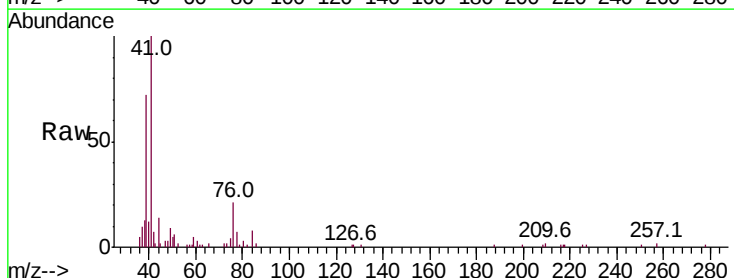
Tgt Ion: 41 Resp: 44414

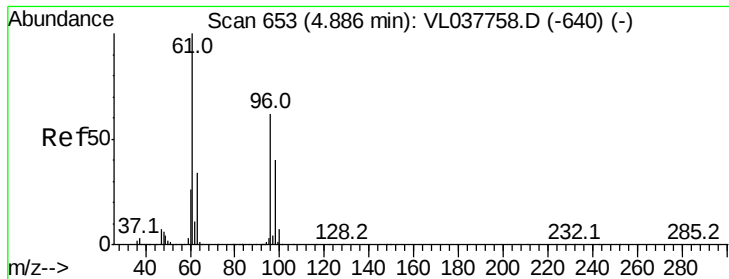
Ion Ratio Lower Upper

41 100

76 0.0 22.4 33.6#

39 83.5 58.0 87.0





#22

trans-1,2-Dichloroethene

Concen: 0.425 ppbv m

RT: 4.90 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 27 Oct 2021 21:29 LOD-MDL-AIR-01-QT4-2021

Tot Ion:

Ion Ratio

96 100

61 183.

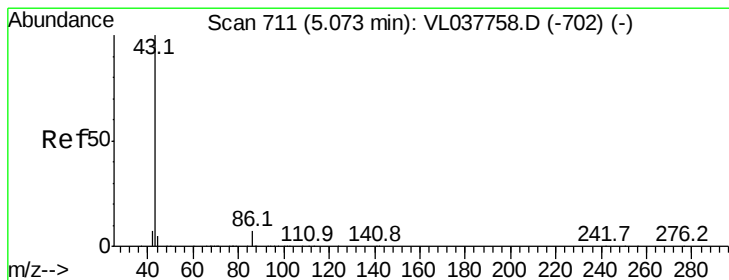
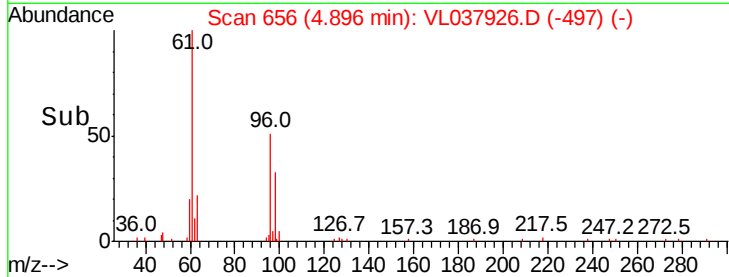
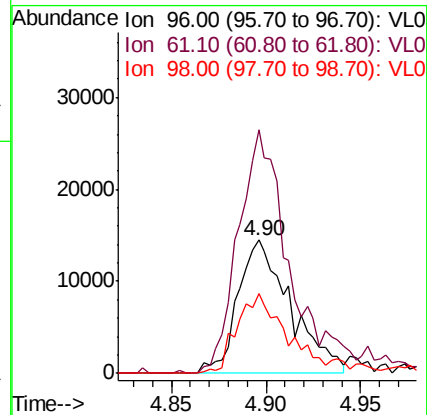
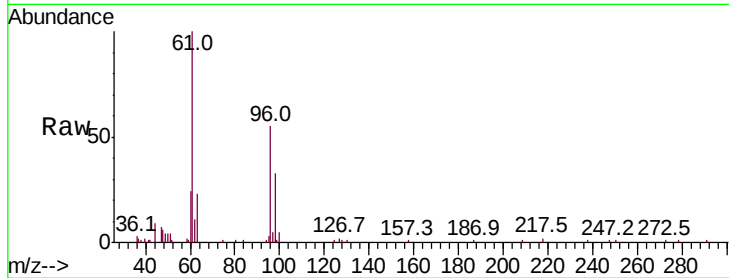
98 59.

Manual Integrations

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Supervised By :Mahesh Dadoda 10/29/2021



#23

Vinyl Acetate

Concen: 0.349 ppbv m

RT: 5.10 min Scan# 720

Delta R.T. 0.03 min

Lab File: VL037926.D

Acq: 27 Oct 2021 21:29

Tgt Ion: 43 Resp: 62934

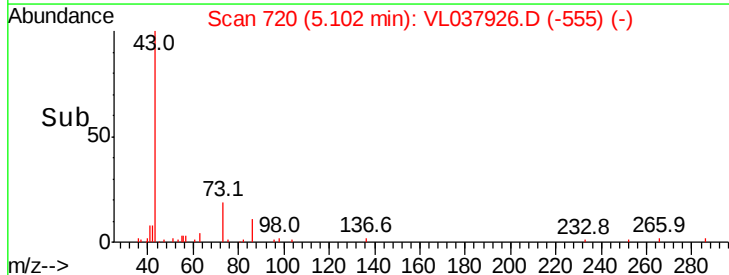
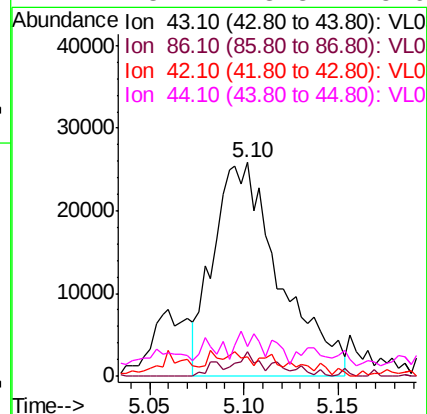
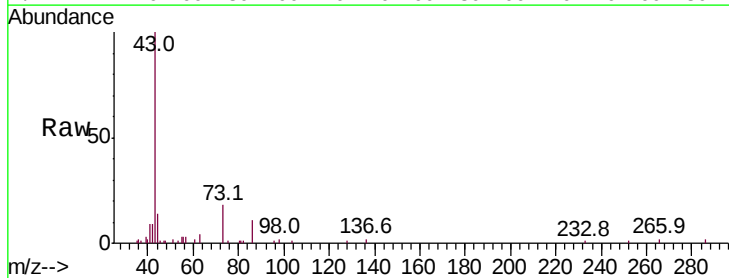
Ion Ratio Lower Upper

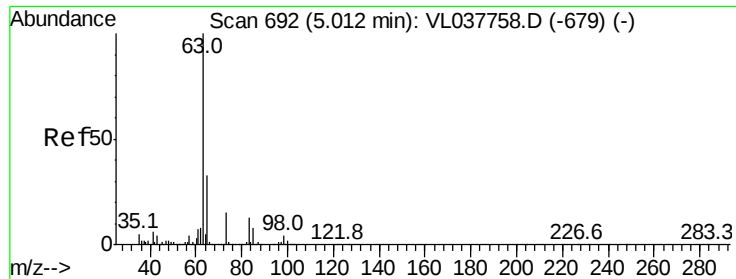
43 100

86 11.1 5.0 7.4#

42 9.1 7.4 11.0

44 13.7 3.8 5.6#





#24

1,1-Dichloroethane

Concen: 0.463 ppbv m

RT: 5.02 Instrument: MSVOA\_1

Delta R.T.

Lab File: ClientSampleId :

Acq: 27 Oct 2021 21:29

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Supervised By :Mahesh Dadoda 10/29/2021

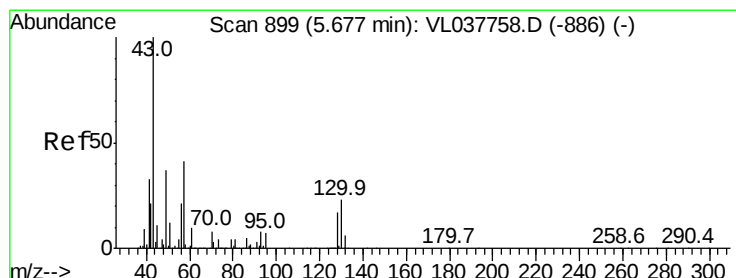
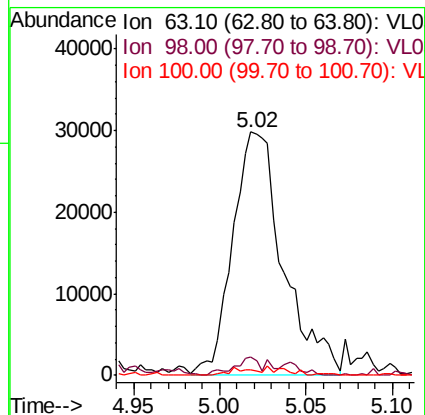
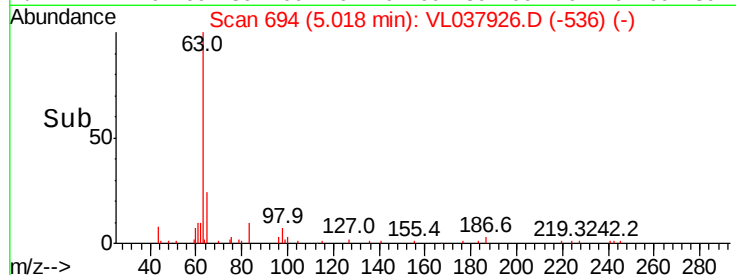
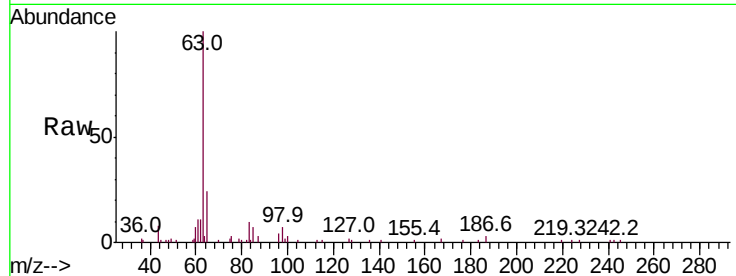
Tot Ion:

Ion Ratio

63 100

98 7.

100 2.



#25

Ethyl Acetate

Concen: 0.362 ppbv

RT: 5.70 min Scan# 907

Delta R.T. 0.03 min

Lab File: VL037926.D

Acq: 27 Oct 2021 21:29

Tgt Ion: 43 Resp: 122493

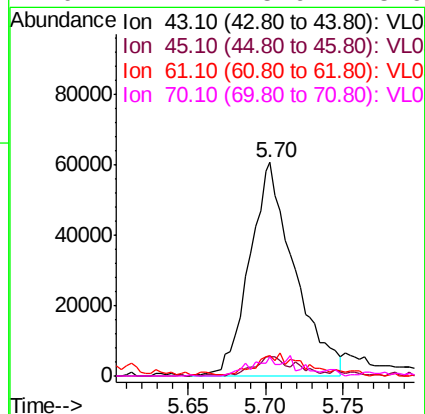
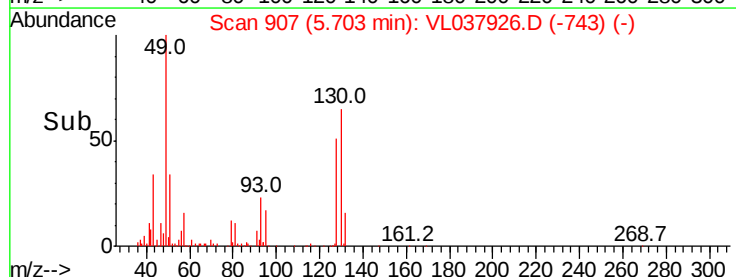
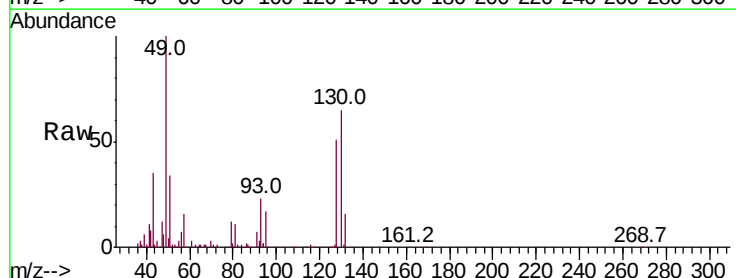
Ion Ratio Lower Upper

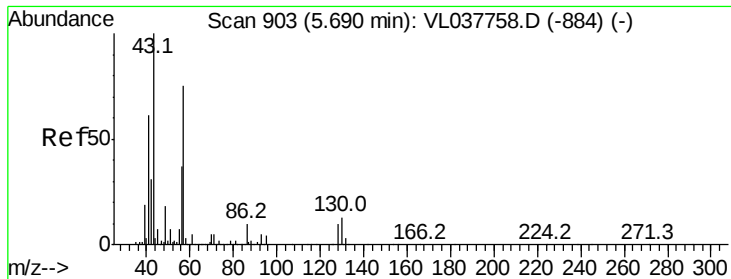
43 100

45 8.4 8.1 12.1

61 12.5 7.5 11.3#

70 11.2 5.9 8.9#





#26

Hexane

Concen: 0.309 ppbv m

RT: 5.70

Delta R.T.

Lab File:

Acq: 27 Oct 2021 21:29

Instrument : MSVOA\_1  
ClientSampleId : LOD-MDL-AIR-01-QT4-2021

Tot Ion:

Ion Ratio

57 100

41 119.

43 263.

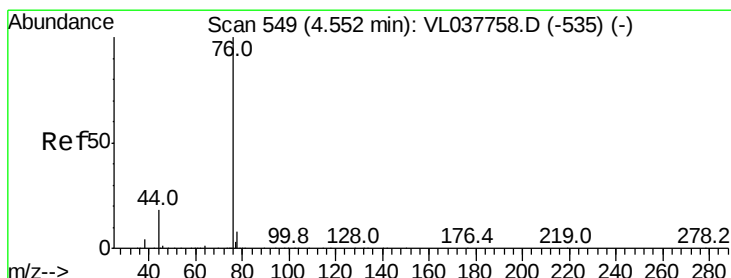
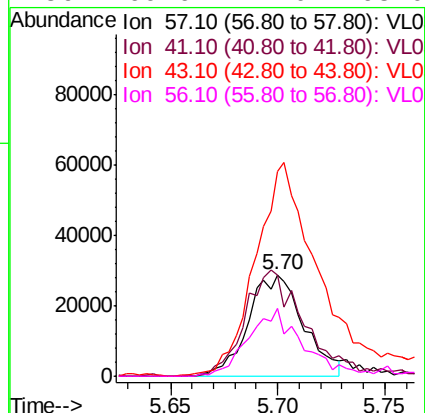
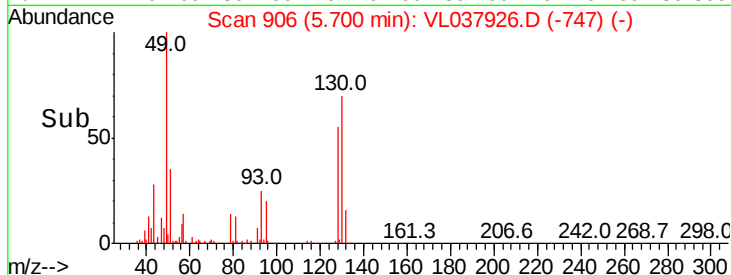
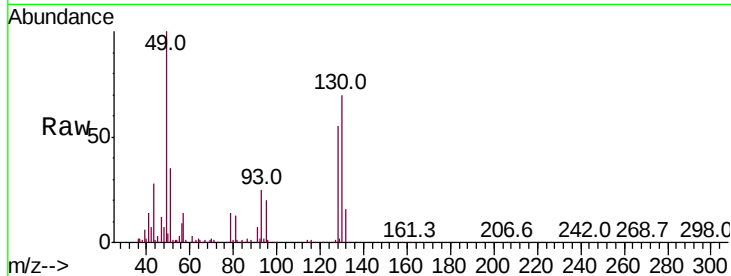
56 69.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/28/2021

Supervised By :Mahesh Dadoda 10/29/2021



#27

Carbon Disulfide

Concen: 0.380 ppbv m

RT: 4.56 min Scan# 552

Delta R.T. 0.01 min

Lab File: VL037926.D

Acq: 27 Oct 2021 21:29

Tgt Ion: 76 Resp: 56053

Ion Ratio Lower Upper

76 100

44 24.8

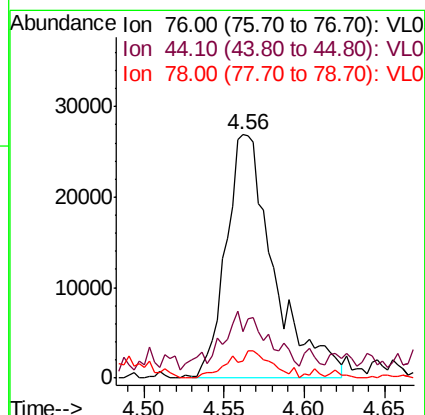
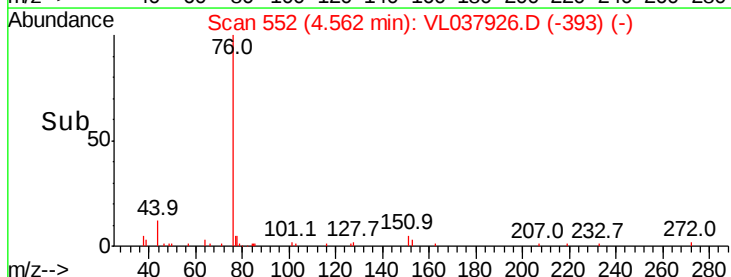
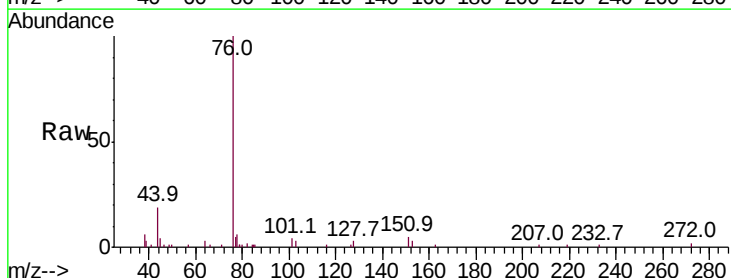
78 10.2

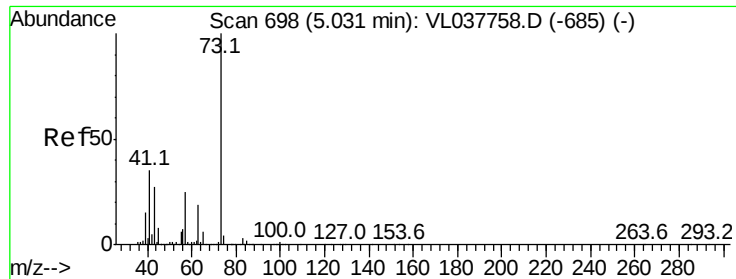
14.3

21.5#

7.8

11.6





#28

Methyl tert-Butyl Ether

Concen: 0.418 ppbv m

RT: 5.06 Instrument:

Delta R.T. MSVOA\_1

Lab File: ClientSampleId:

Acq: 27 Oct 2021 21:29 LOD-MDL-AIR-01-QT4-2021

Tot Ion:

Ion Ratio

73 100

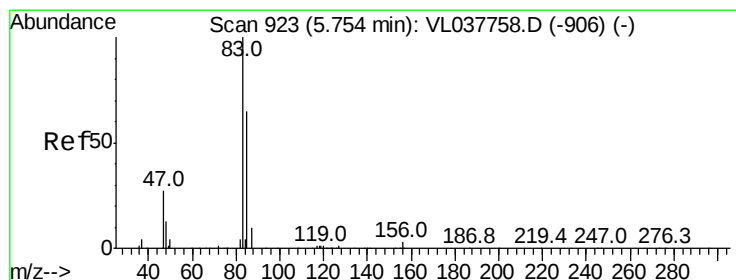
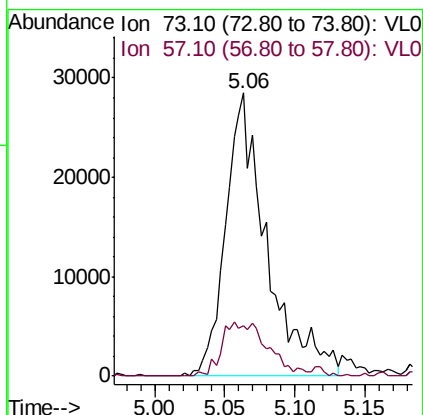
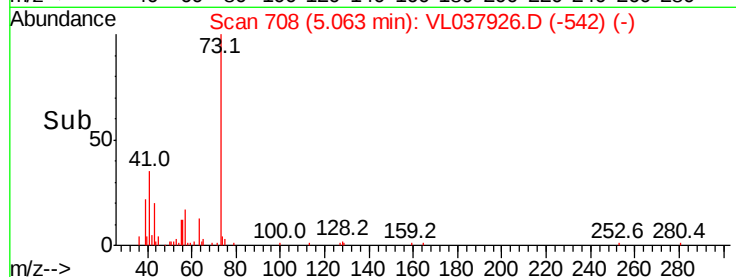
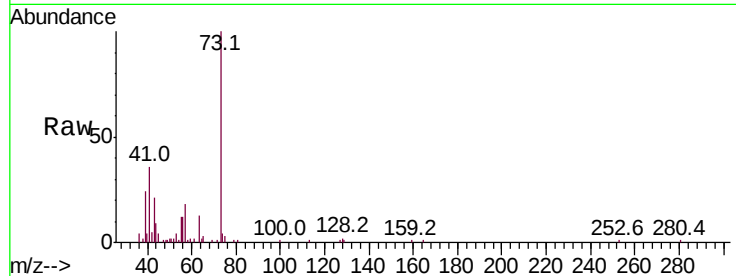
57 1.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2021

Supervised By :Mahesh Dadoda 10/29/2021



#29

Chloroform

Concen: 0.402 ppbv

RT: 5.76 min Scan# 924

Delta R.T. 0.00 min

Lab File: VL037926.D

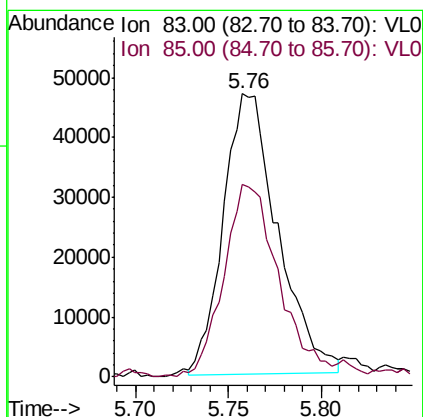
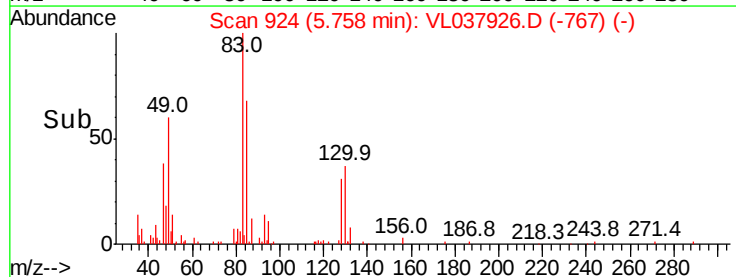
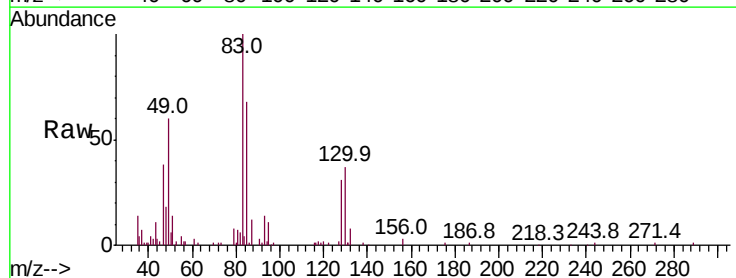
Acq: 27 Oct 2021 21:29

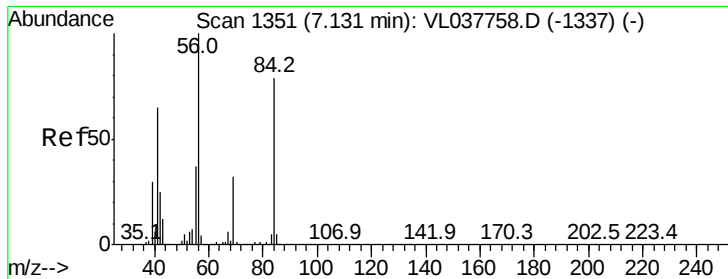
Tgt Ion: 83 Resp: 95756

Ion Ratio Lower Upper

83 100

85 68.4 51.8 77.8



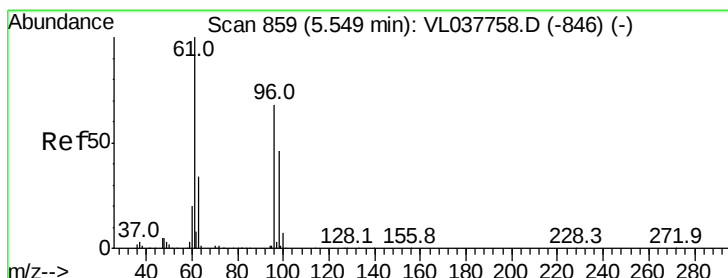
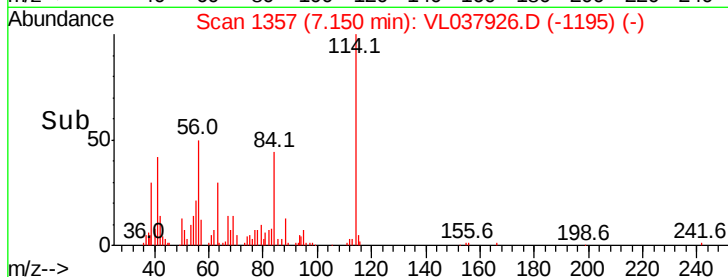
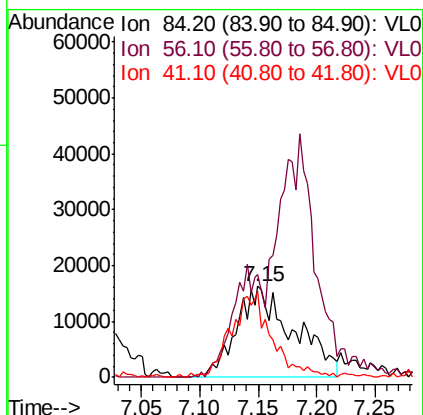
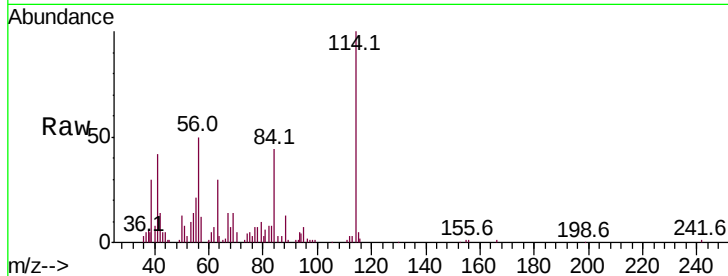


#30  
Cvclohexane  
Concen: 0.390 ppbv m  
RT: 7.15  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId:  
Acq: 27 Oct 2021 21:29  
LOD-MDL-AIR-01-QT4-2021

Tot Ion:  
Ion Ratio  
84 100  
56 0.  
41 0.

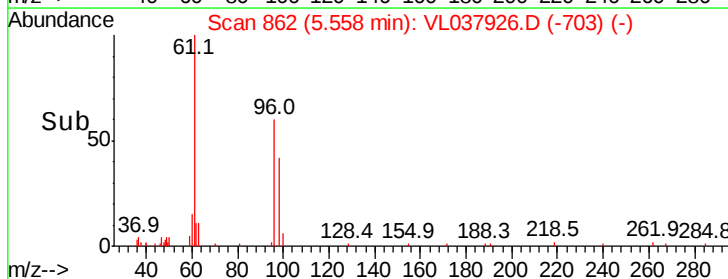
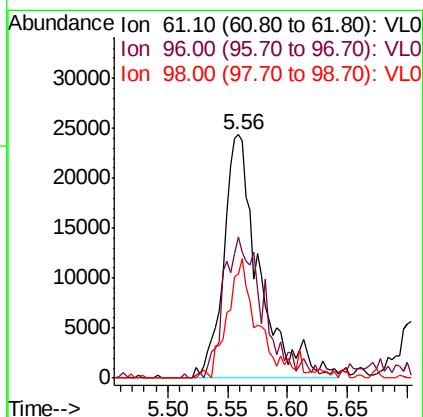
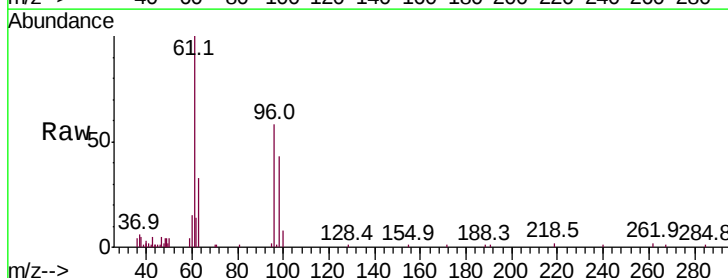
Manual Integrations  
APPROVED

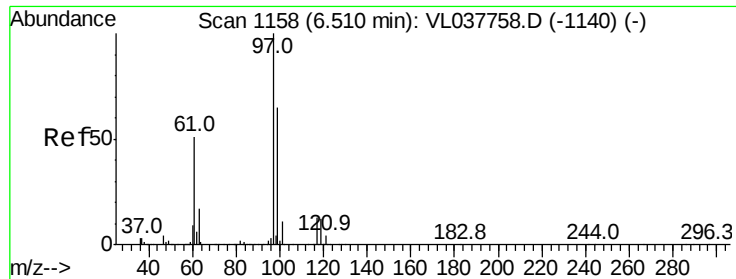
Reviewed By :Semsettin Yesilyurt 10/28/2021  
Supervised By :Mahesh Dadoda 10/29/2021



#31  
cis-1,2-Dichloroethene  
Concen: 0.334 ppbv m  
RT: 5.56 min Scan# 862  
Delta R.T. 0.01 min  
Lab File: VL037926.D  
Acq: 27 Oct 2021 21:29

Tgt Ion: 61 Resp: 50473  
Ion Ratio Lower Upper  
61 100  
96 58.2 54.2 81.2  
98 43.0 36.6 54.8





#32

1,1,1-Trichloroethane

Concen: 0.377 ppbv

RT: 6.52 Instrument:

Delta R.T. MSVOA\_1

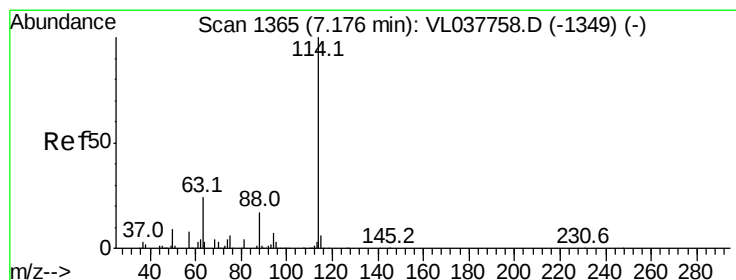
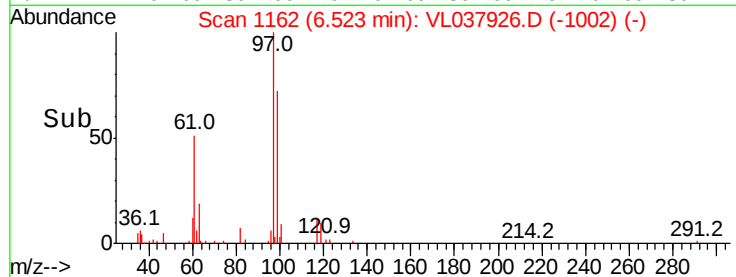
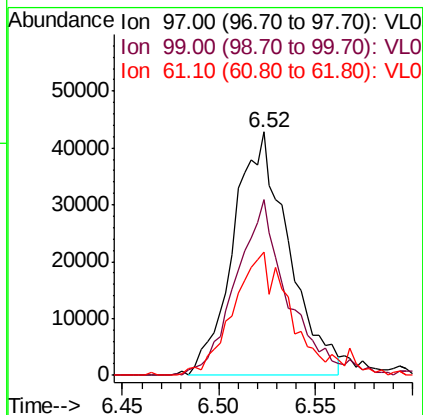
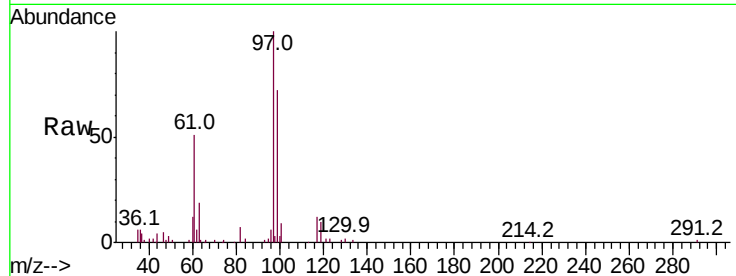
Lab File: ClientSampleId:

Acq: 27 Oct 2021 21:29 LOD-MDL-AIR-01-QT4-2021

Tot Ion:  
Ion Rati  
97 100  
99 68.  
61 55.

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2021  
Supervised By :Mahesh Dadoda 10/29/2021



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

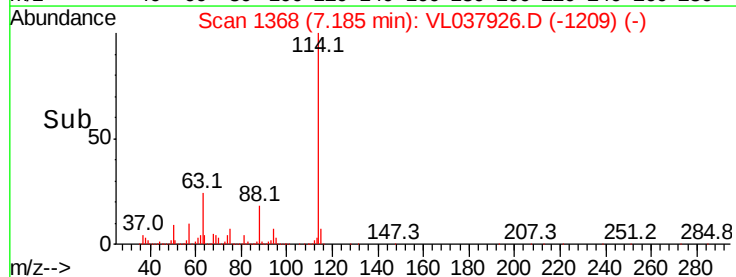
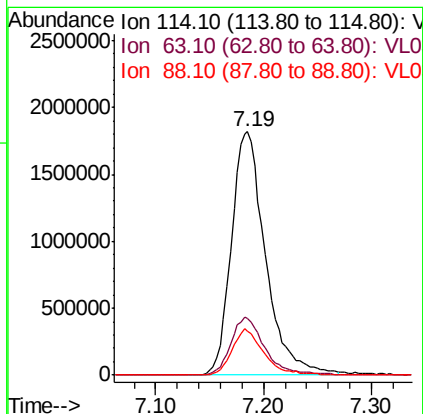
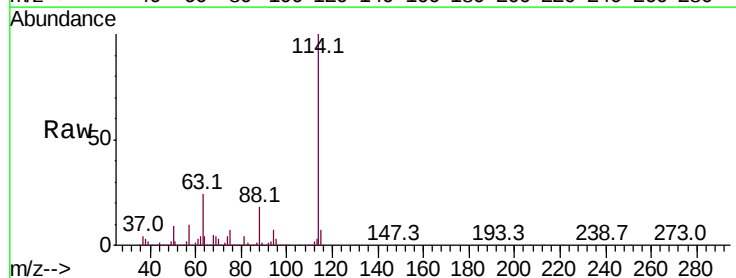
RT: 7.19 min Scan# 1368

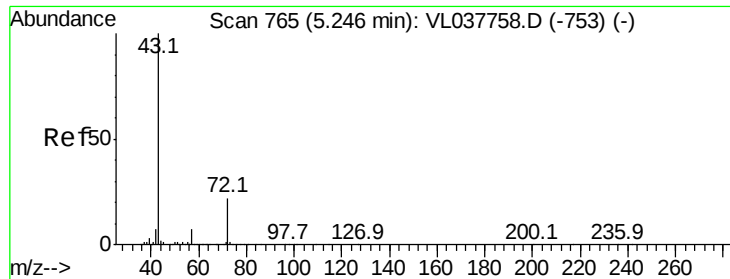
Delta R.T. 0.01 min

Lab File: VL037926.D

Acq: 27 Oct 2021 21:29

Tgt Ion:114 Resp: 4001200  
Ion Ratio Lower Upper  
114 100  
63 23.8 19.4 29.2  
88 17.9 14.4 21.6



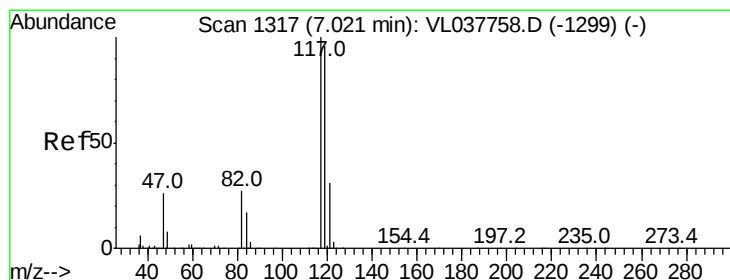
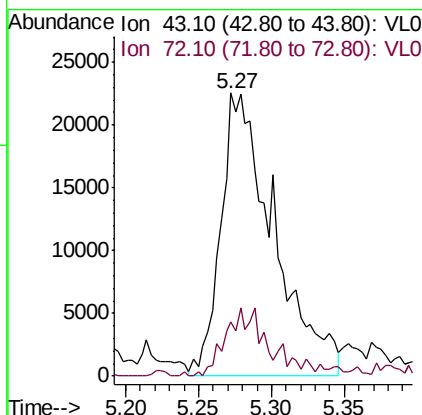
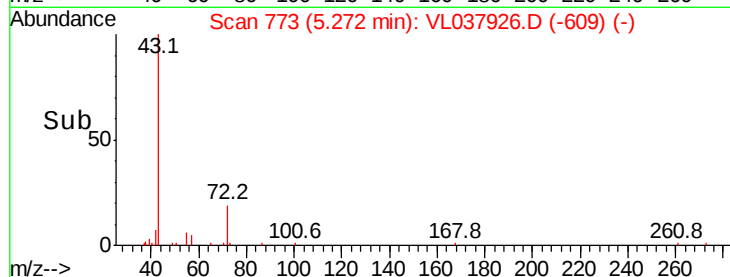
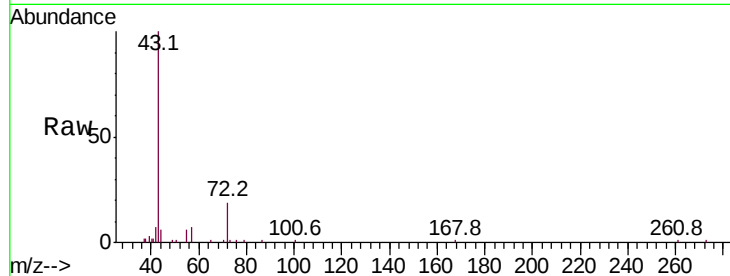


#34  
2-Butanone  
Concen: 0.353 ppbv m  
RT: 5.27  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 27 Oct 2021 21:29 LOD-MDL-AIR-01-QT4-2021

Tot Ion:  
Ion Ratio  
43 100  
72 0.

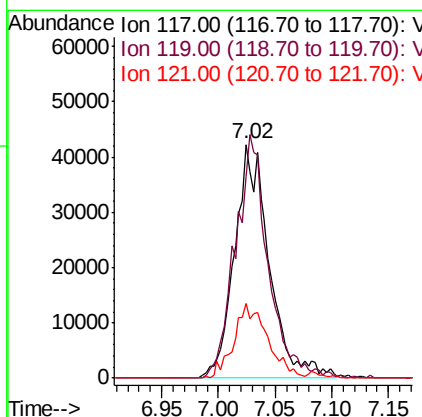
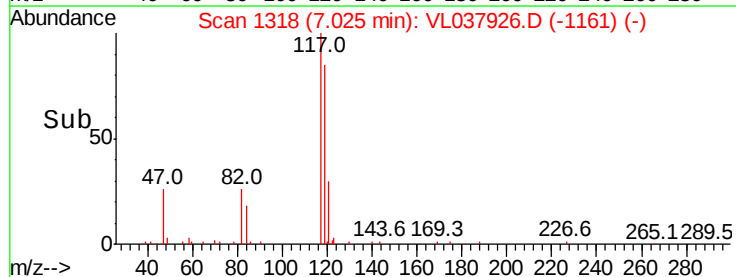
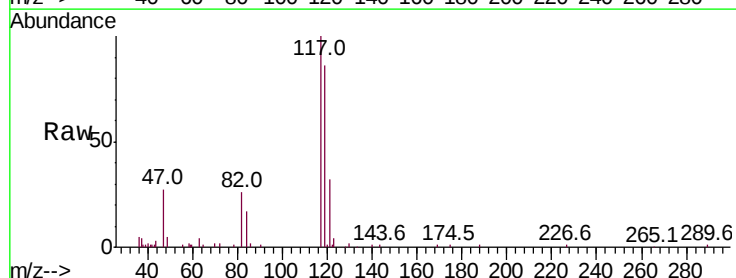
Manual Integrations  
APPROVED

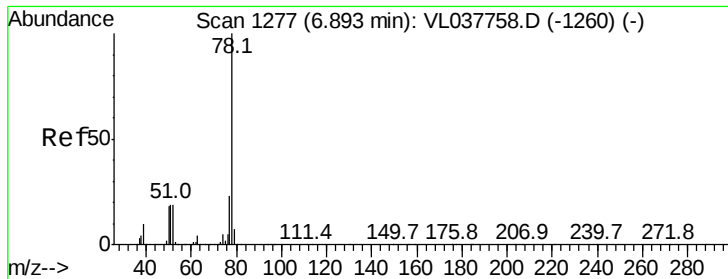
Reviewed By :Semsettin Yesilyurt 10/28/2021  
Supervised By :Mahesh Dadoda 10/29/2021



#35  
Carbon Tetrachloride  
Concen: 0.394 ppbv m  
RT: 7.02 min Scan# 1318  
Delta R.T. 0.00 min  
Lab File: VL037926.D  
Acq: 27 Oct 2021 21:29

Tgt Ion:117 Resp: 89608  
Ion Ratio Lower Upper  
117 100  
119 86.2 76.5 114.7  
121 32.1 24.9 37.3





#36

Benzene

Concen: 0.308 ppbv m

RT: 6.90

Delta R.T. MSVOA\_L

Lab File:

Acq: 27 Oct 2021 21:29

ClientSampleId :

LOD-MDL-AIR-01-QT4-2021

Tot Ion:

Ion Ratio

78 100

77 21.

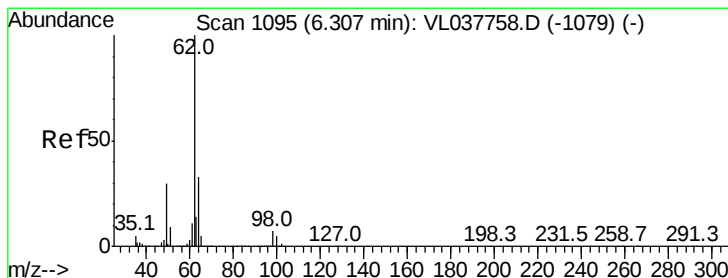
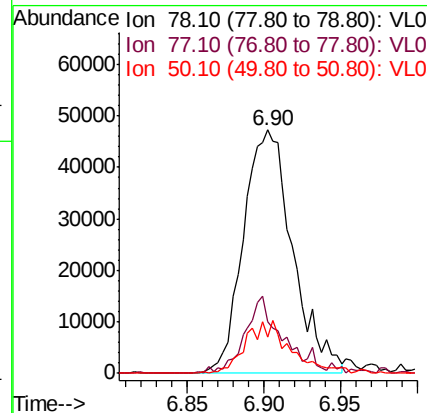
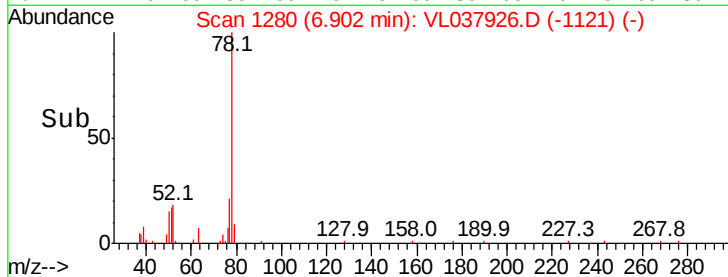
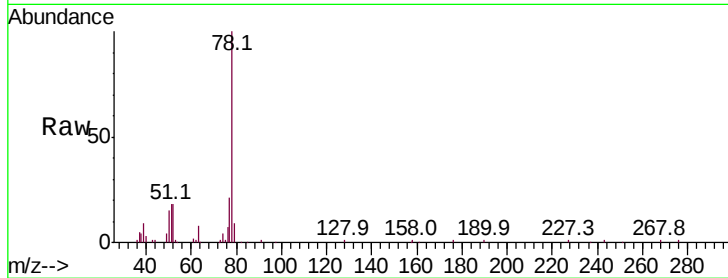
50 14.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2021

Supervised By :Mahesh Dadoda 10/29/2021



#37

1,2-Dichloroethane

Concen: 0.359 ppbv

RT: 6.31 min Scan# 1097

Delta R.T. 0.01 min

Lab File: VL037926.D

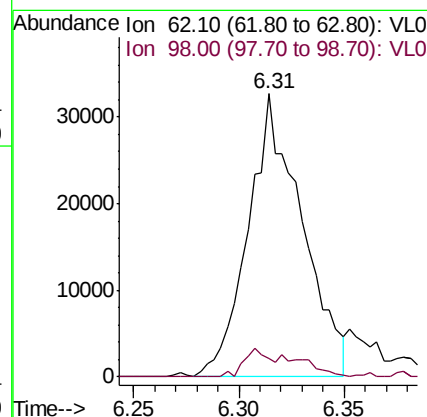
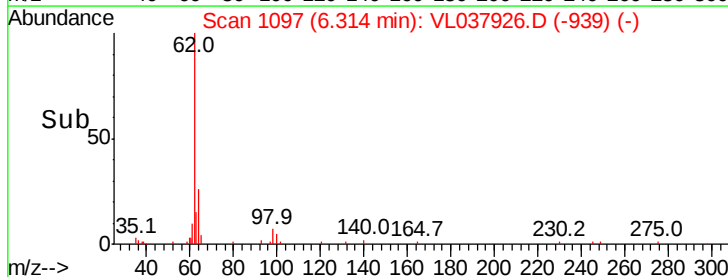
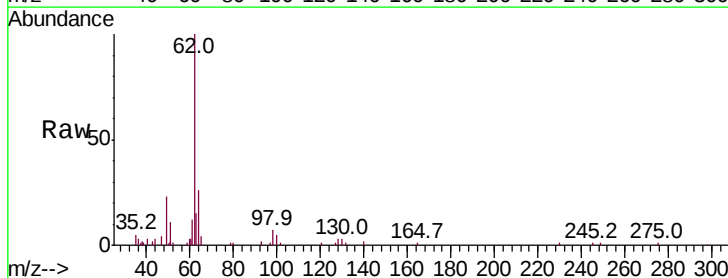
Acq: 27 Oct 2021 21:29

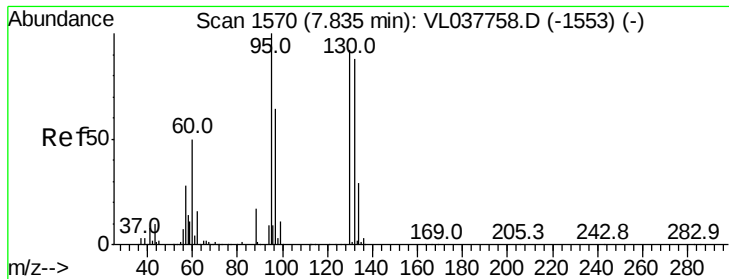
Tgt Ion: 62 Resp: 57714

Ion Ratio Lower Upper

62 100

98 9.6 6.1 9.1#





#38

Trichloroethene

Concen: 0.346 ppbv m

RT: 7.84 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 27 Oct 2021 21:29 LOD-MDL-AIR-01-QT4-2021

Tot Ion:1

Ion Ratio

130 100

95 83.1

132 71.1

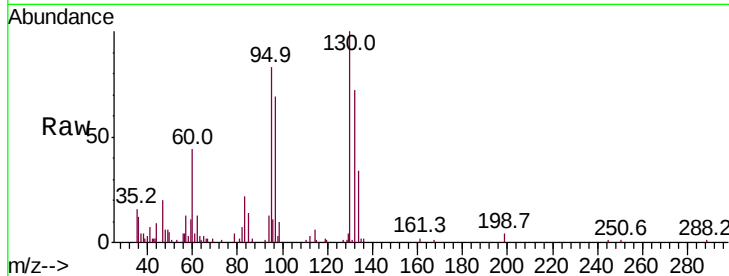
97 68.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/28/2021

Supervised By :Mahesh Dadoda 10/29/2021

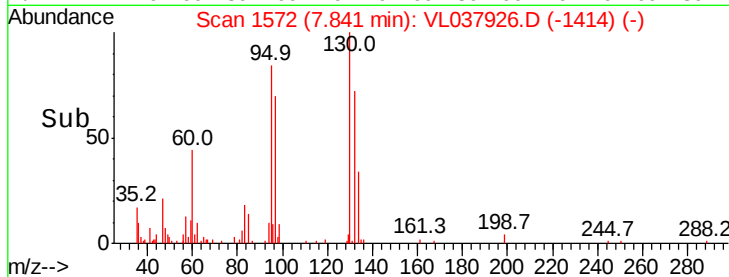
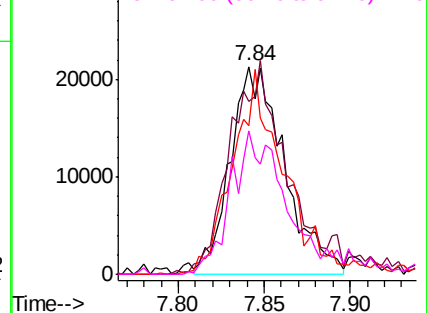


Abundance Ion 130.00 (129.70 to 130.70): VL0

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): VL0

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 0.359 ppbv m

RT: 7.62 min Scan# 1504

Delta R.T. 0.01 min

Lab File: VL037926.D

Acq: 27 Oct 2021 21:29

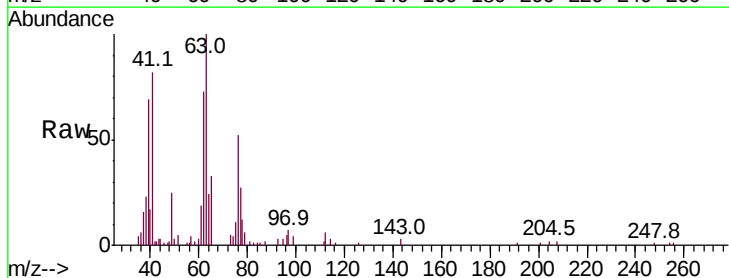
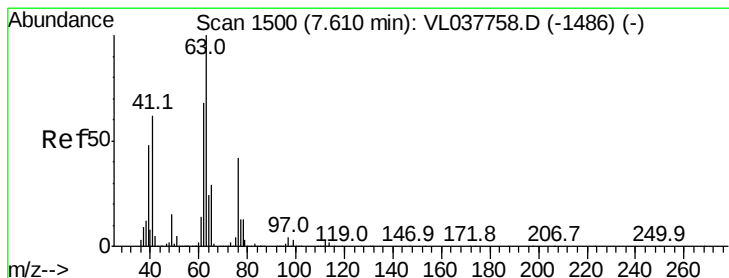
Tgt Ion: 63 Resp: 46157

Ion Ratio Lower Upper

63 100

41 81.5 49.8 74.6#

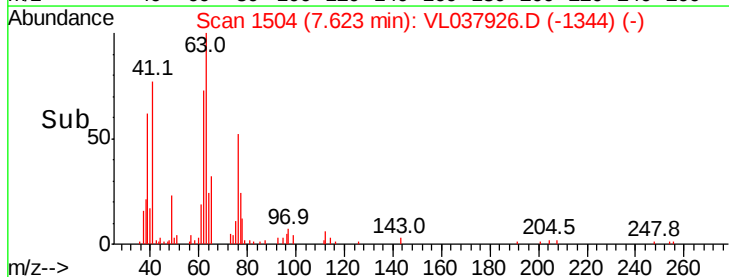
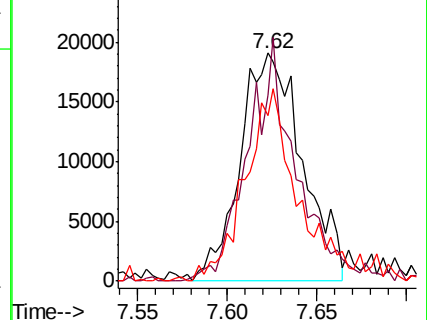
62 72.6 54.6 82.0

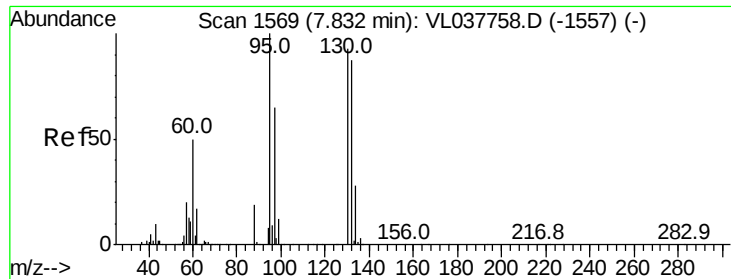


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#40

1,4-Dioxane

Concen: 0.319 ppbv m

RT: 7.88

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

Acq: 27 Oct 2021 21:29

Tot Ion:

Ion Ratio

88 100

58 0.

43 0.

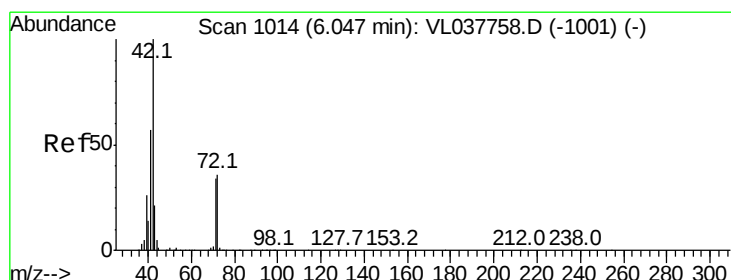
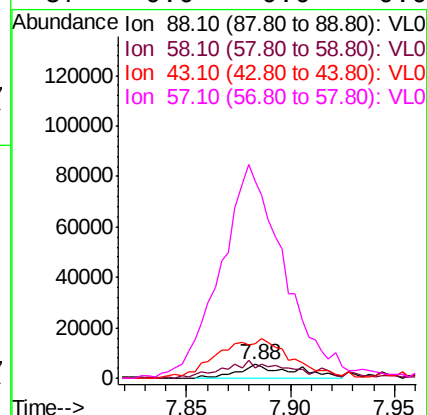
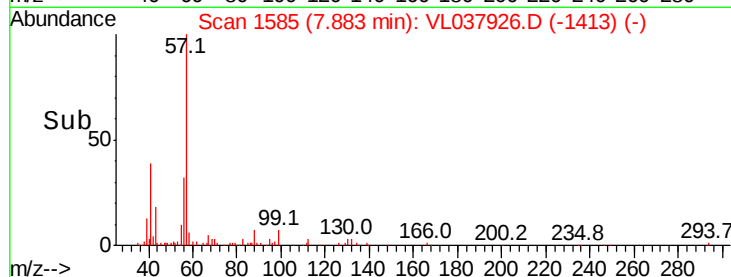
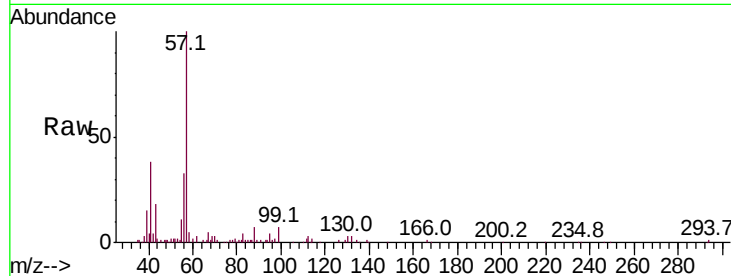
57 0.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/28/2021

Supervised By :Mahesh Dadoda 10/29/2021



#41

Tetrahydrofuran

Concen: 0.216 ppbv m

RT: 6.10 min Scan# 1032

Delta R.T. 0.06 min

Lab File: VL037926.D

Acq: 27 Oct 2021 21:29

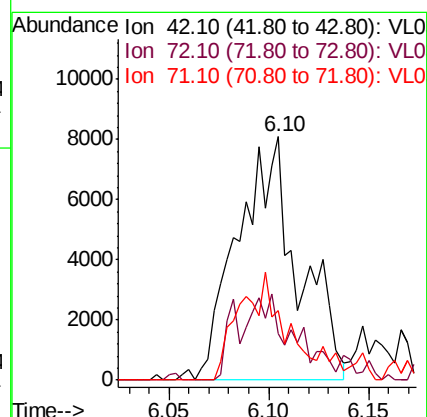
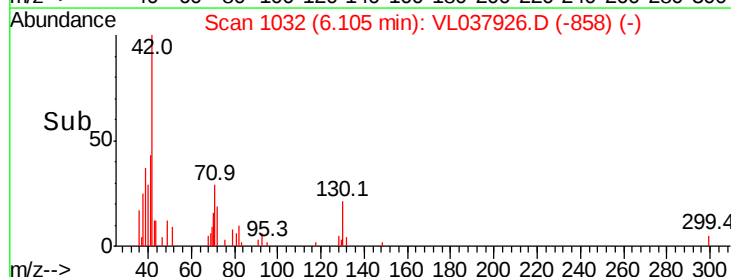
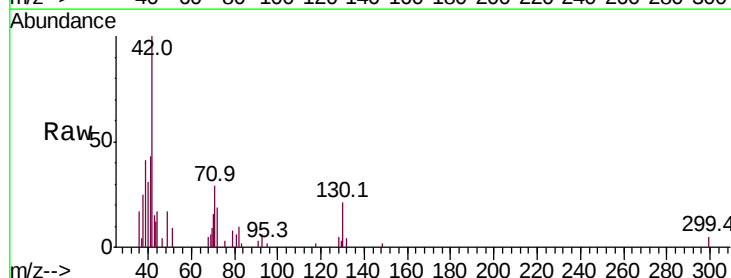
Tgt Ion: 42 Resp: 17116

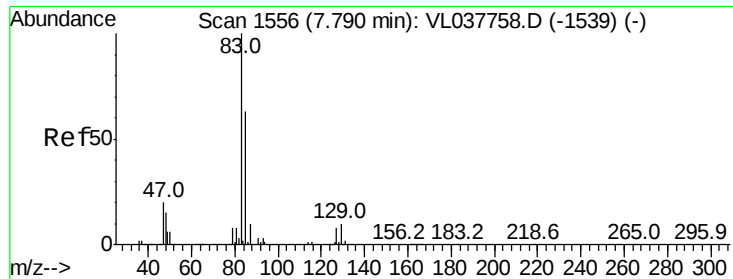
Ion Ratio Lower Upper

42 100

72 0.0 31.9 47.9#

71 0.0 30.3 45.5#





#42

Bromodichloromethane

Concen: 0.351 ppbv m

RT: 7.80 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 27 Oct 2021 21:29 LOD-MDL-AIR-01-QT4-2021

Tot Ion:

Ion Ratio

83 100

85 66.

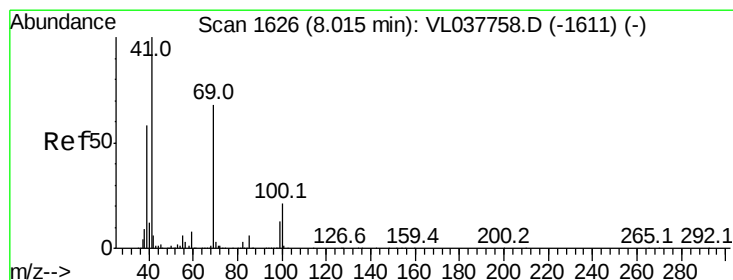
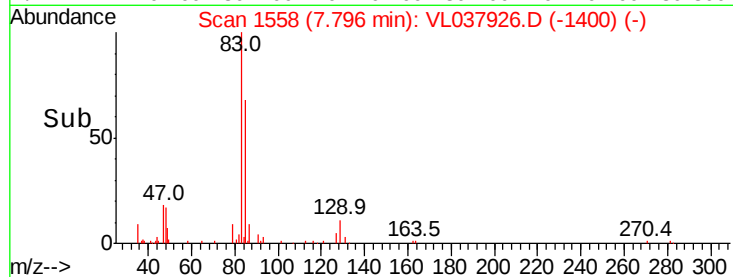
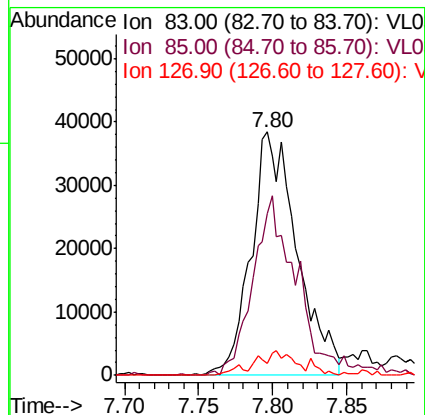
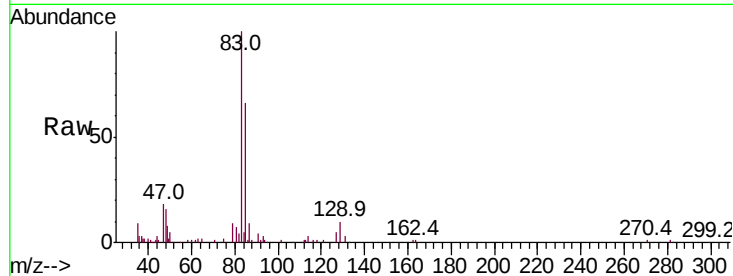
127 5.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/28/2021

Supervised By :Mahesh Dadoda 10/29/2021



#43

Methyl Methacrylate

Concen: 0.246 ppbv m

RT: 8.03 min Scan# 1631

Delta R.T. 0.02 min

Lab File: VL037926.D

Acq: 27 Oct 2021 21:29

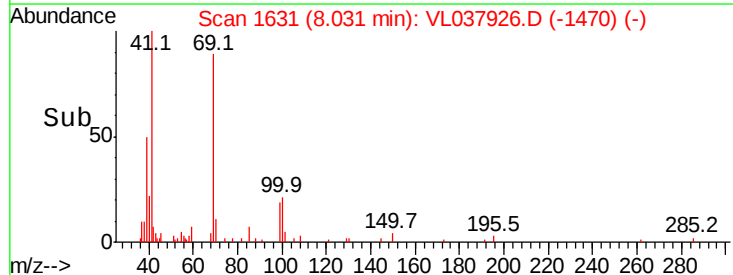
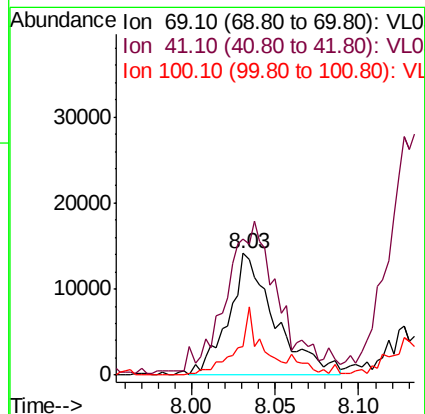
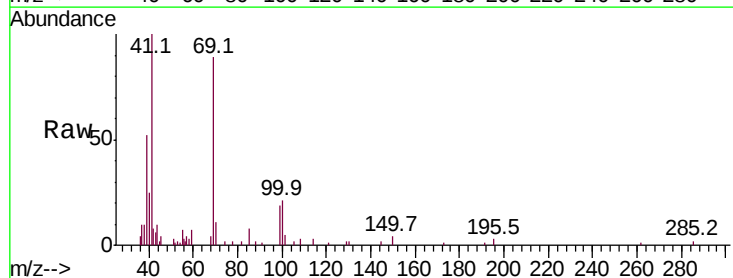
Tgt Ion: 69 Resp: 27502

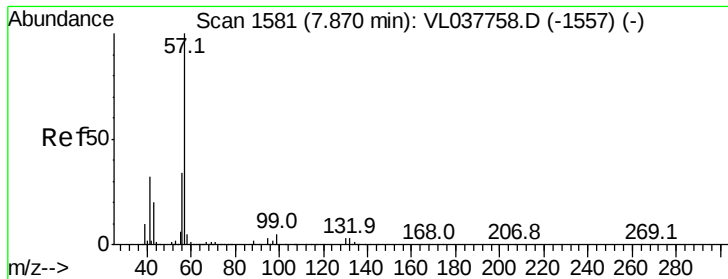
Ion Ratio Lower Upper

69 100

41 144.4 121.0 181.4

100 37.8 27.7 41.5





#44

2,2,4-Trimethylpentane

Concen: 0.302 ppbv

RT: 7.88 Instrument:

Delta R.T. MSVOA\_L

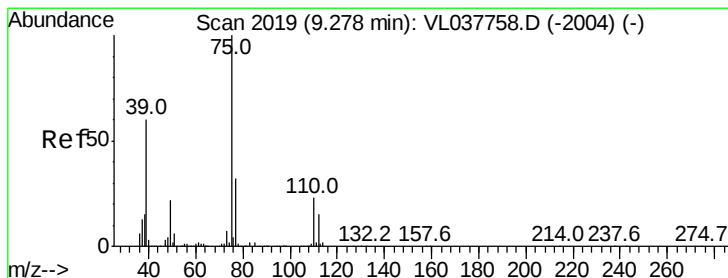
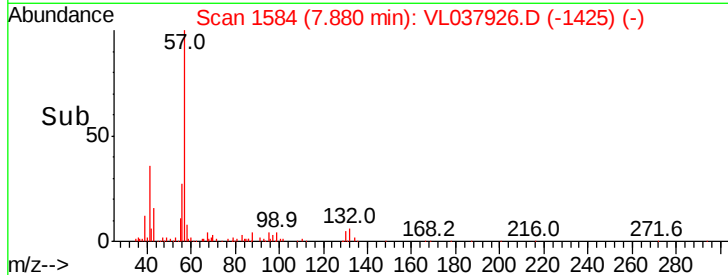
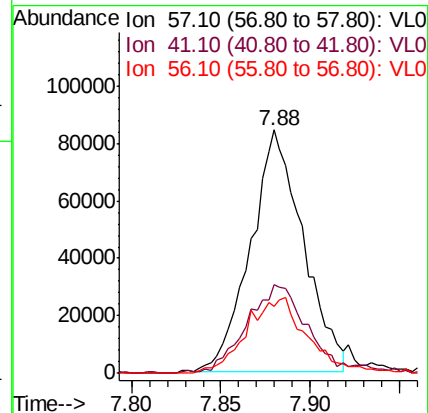
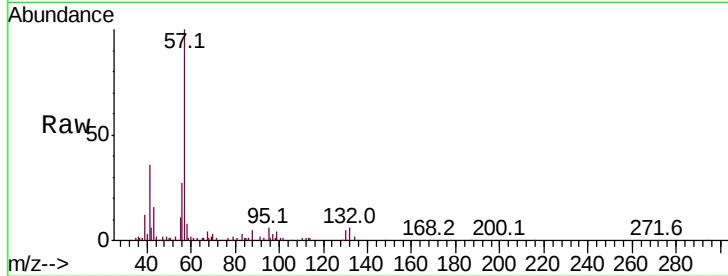
Lab File: ClientSampleId:

Acq: 27 Oct 2021 21:29 LOD-MDL-AIR-01-QT4-2021

Tot Ion:  
Ion Ratio  
57 100  
41 43.  
56 37.

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2021  
Supervised By :Mahesh Dadoda 10/29/2021



#45

t-1,3-Dichloropropene

Concen: 0.234 ppbv m

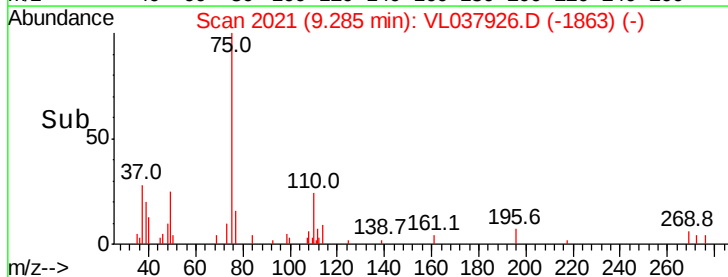
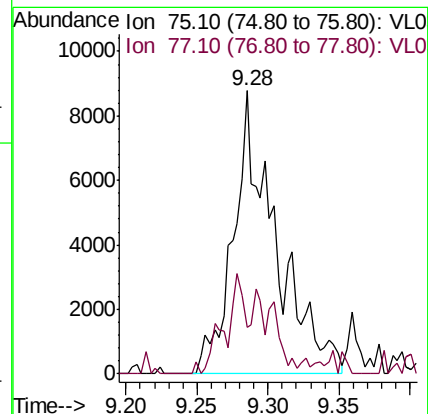
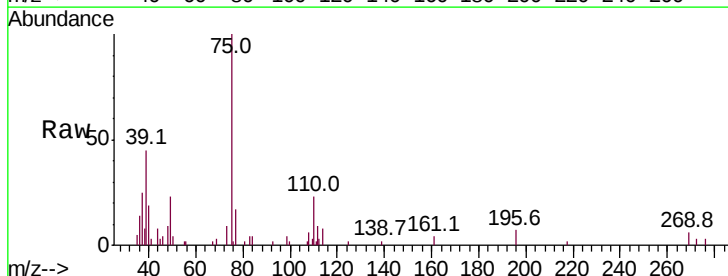
RT: 9.28 min Scan# 2021

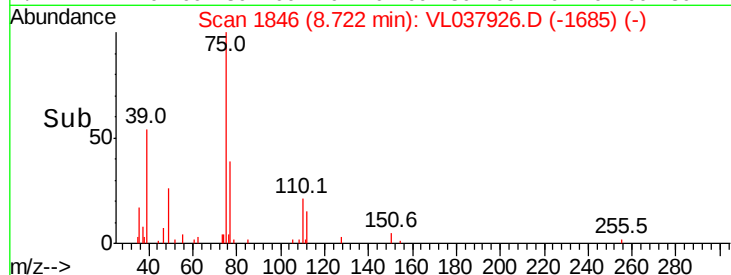
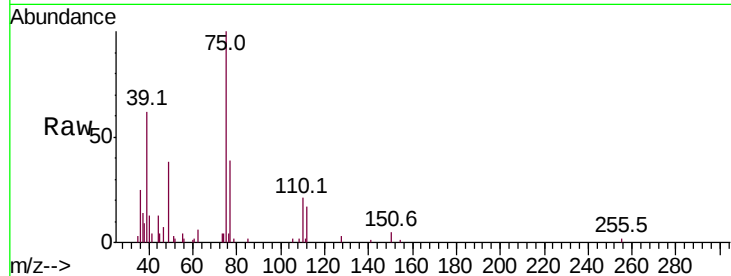
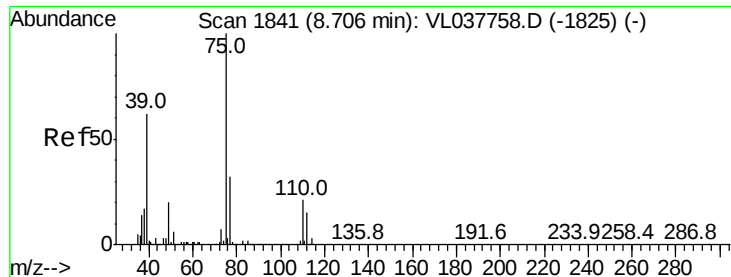
Delta R.T. 0.01 min

Lab File: VL037926.D

Acq: 27 Oct 2021 21:29

Tgt Ion: 75 Resp: 17960  
Ion Ratio Lower Upper  
75 100  
77 16.6 25.2 37.8#



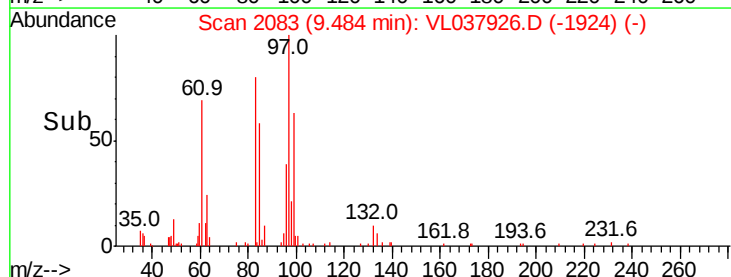
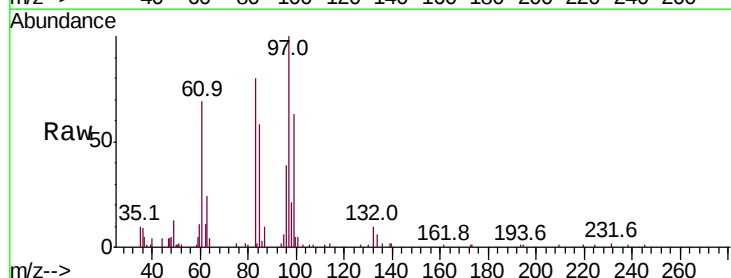
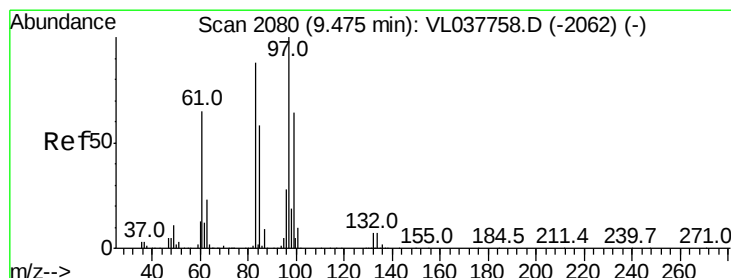
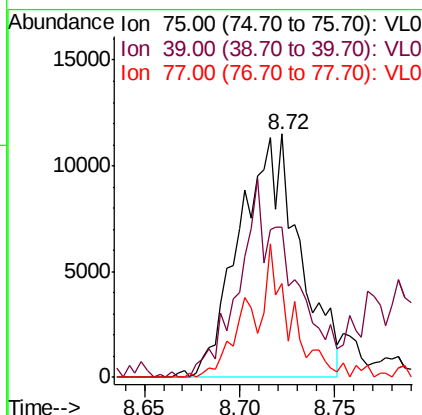


#46  
 cis-1,3-Dichloropropene  
 Concen: 0.237 ppbv m  
 RT: 8.72  
 Instrument: MSVOA\_1  
 Delta R.T.:  
 Lab File: ClientSampleId:  
 Acq: 27 Oct 2021 21:29  
 LOD-MDL-AIR-01-QT4-2021

Tot Ion:  
 Ion Ratio  
 75 100  
 39 61.  
 77 38.

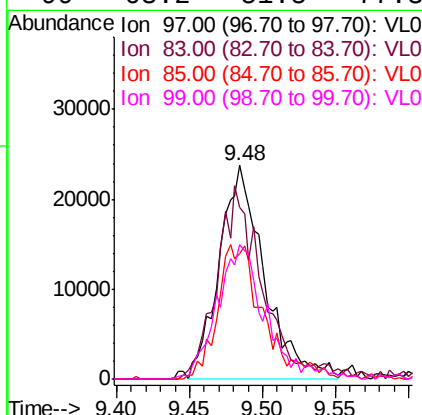
Manual Integrations  
 APPROVED

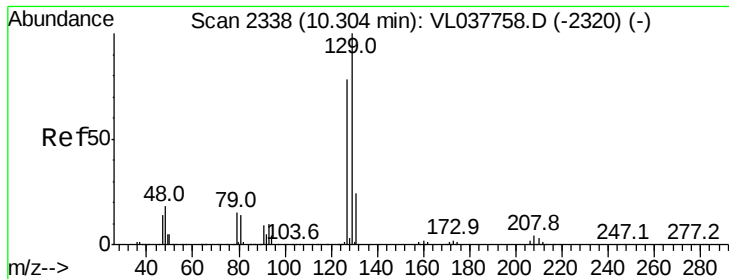
Reviewed By :Semsettin Yesilyurt 10/28/2021  
 Supervised By :Mahesh Dadoda 10/29/2021



#47  
 1,1,2-Trichloroethane  
 Concen: 0.366 ppbv m  
 RT: 9.48 min Scan# 2083  
 Delta R.T. 0.01 min  
 Lab File: VL037926.D  
 Acq: 27 Oct 2021 21:29

Tgt Ion: 97 Resp: 51165  
 Ion Ratio Lower Upper  
 97 100  
 83 80.2 70.6 105.8  
 85 58.5 45.9 68.9  
 99 63.2 51.5 77.3





#48

Dibromochloromethane

Concen: 0.329 ppbv m

RT: 10.31

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

Acq: 27 Oct 2021 21:29

Tot Ion:1

Ion Rati

129 100

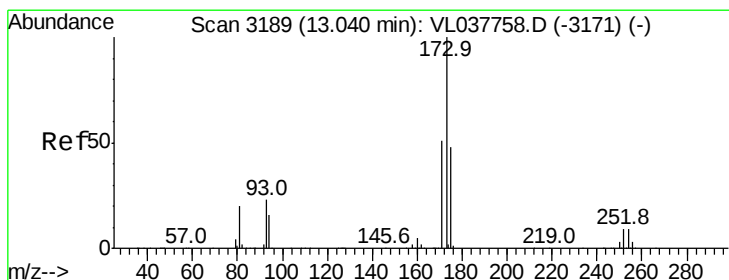
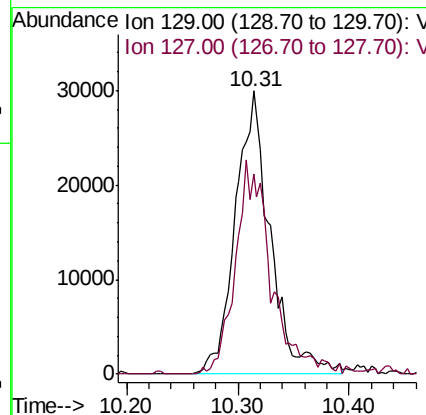
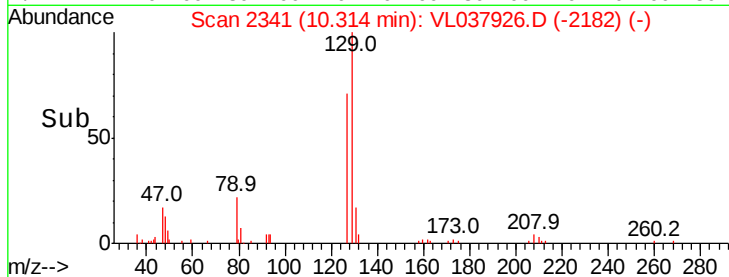
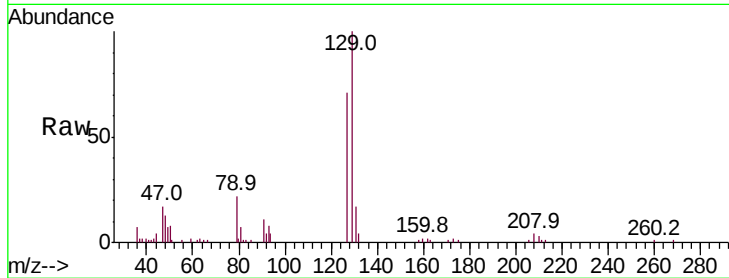
127 78.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2021

Supervised By :Mahesh Dadoda 10/29/2021



#49

Bromoform

Concen: 0.301 ppbv

RT: 13.05 min Scan# 3193

Delta R.T. 0.01 min

Lab File: VL037926.D

Acq: 27 Oct 2021 21:29

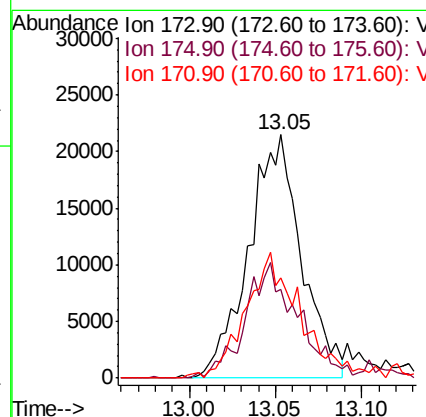
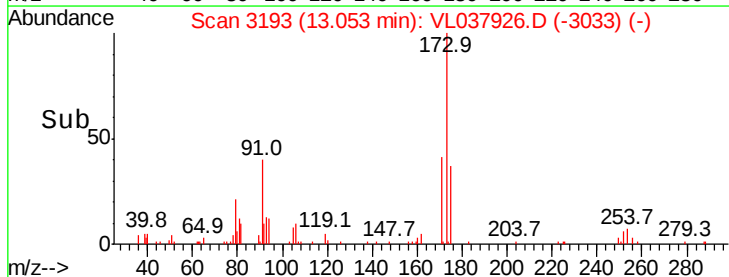
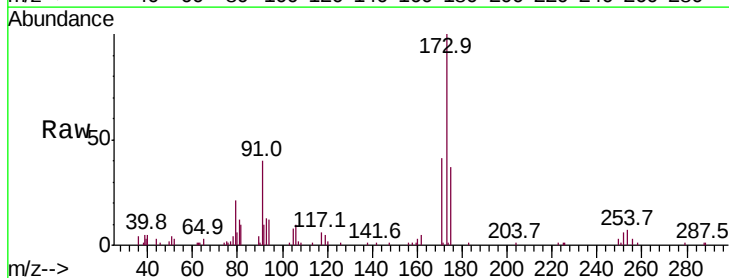
Tgt Ion:173 Resp: 45922

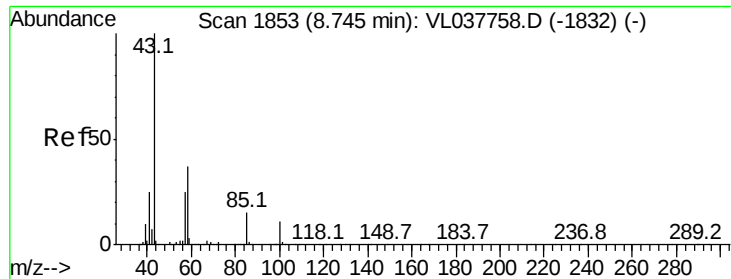
Ion Ratio Lower Upper

173 100

175 49.9 39.9 59.9

171 55.1 43.4 65.2





#50

4-Methyl-2-Pentanone

Concen: 0.267 ppbv m

RT: 8.78 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 27 Oct 2021 21:29 LOD-MDL-AIR-01-QT4-2021

Tot Ion:

Ion Ratio

43 100

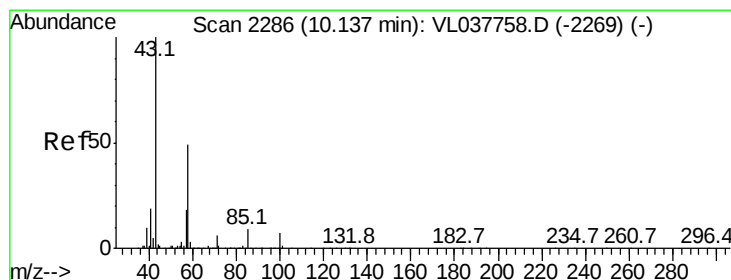
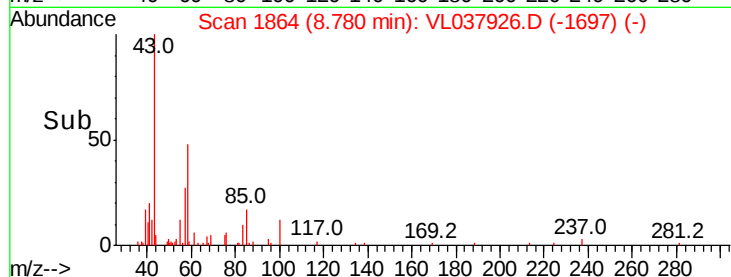
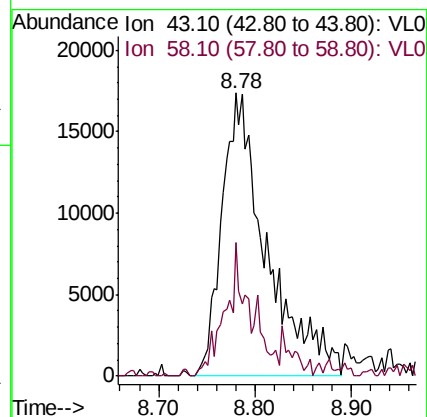
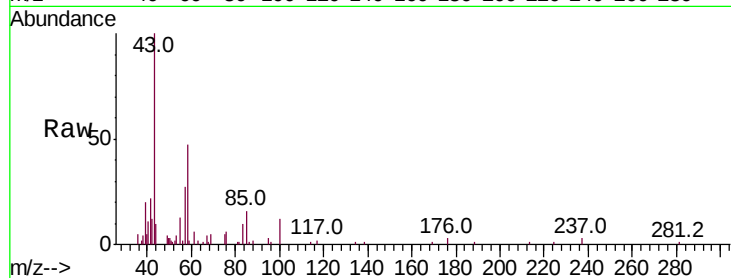
58 0.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/28/2021

Supervised By :Mahesh Dadoda 10/29/2021



#51

2-Hexanone

Concen: 0.213 ppbv m

RT: 10.19 min Scan# 2301

Delta R.T. 0.05 min

Lab File: VL037926.D

Acq: 27 Oct 2021 21:29

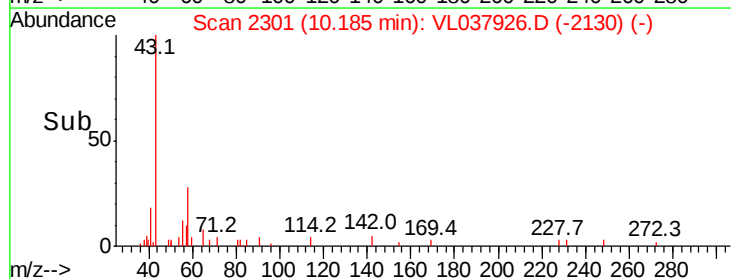
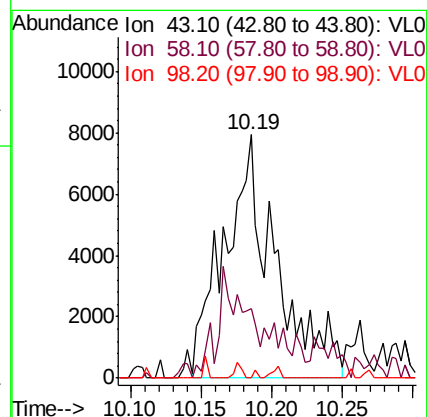
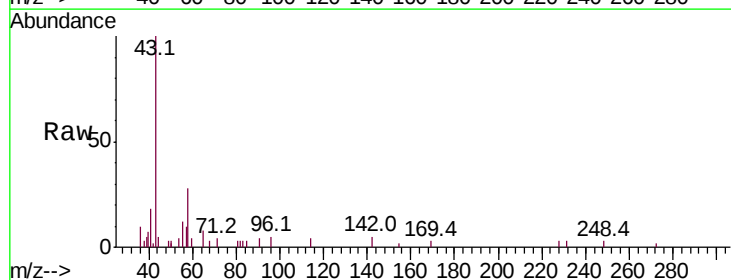
Tgt Ion: 43 Resp: 20012

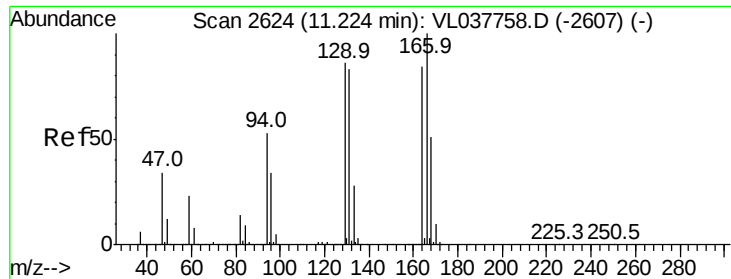
Ion Ratio Lower Upper

43 100

58 0.0 39.4 59.0#

98 1.6 0.3 0.5#





#52

Tetrachloroethene

Concen: 0.309 ppbv m

RT: 11.23

Delta R.T. MSVOA\_L

Lab File:

Acq: 27 Oct 2021 21:29

ClientSampleId :

LOD-MDL-AIR-01-QT4-2021

Tot Ion:1

Ion Rati

164 100

166 97.

129 83.

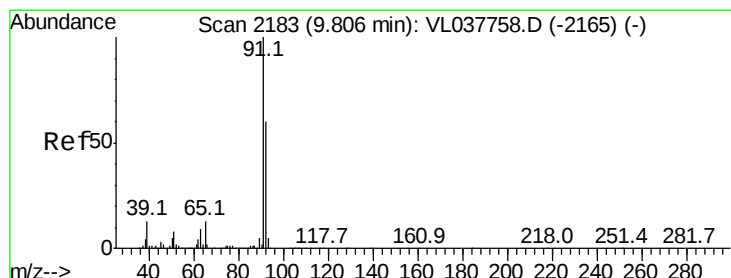
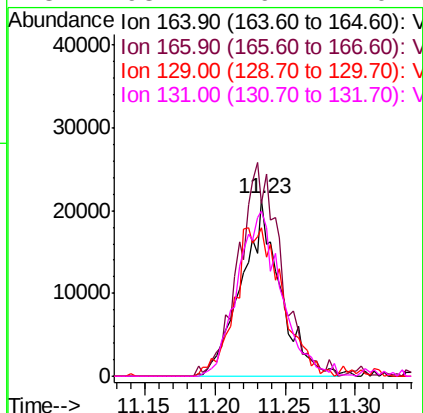
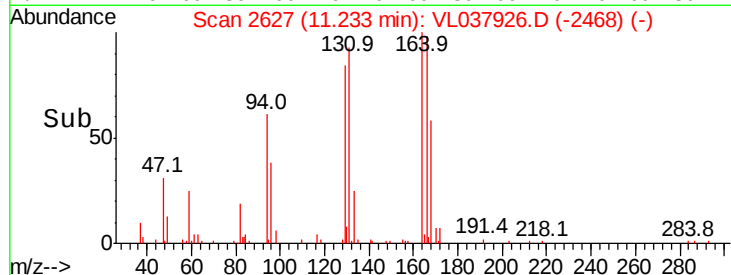
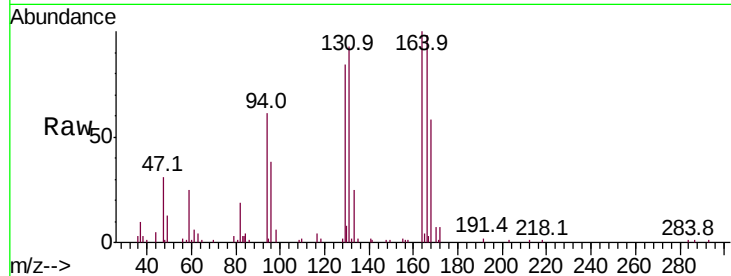
131 93.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2021

Supervised By :Mahesh Dadoda 10/29/2021



#53

Toluene

Concen: 0.228 ppbv m

RT: 9.82 min Scan# 2186

Delta R.T. 0.01 min

Lab File: VL037926.D

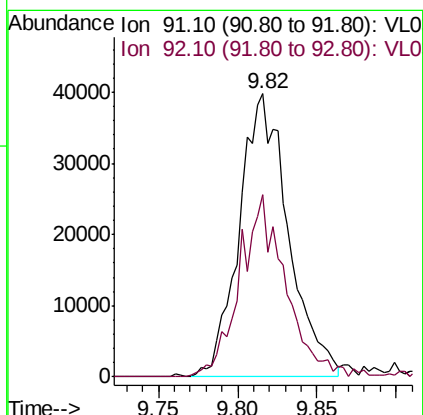
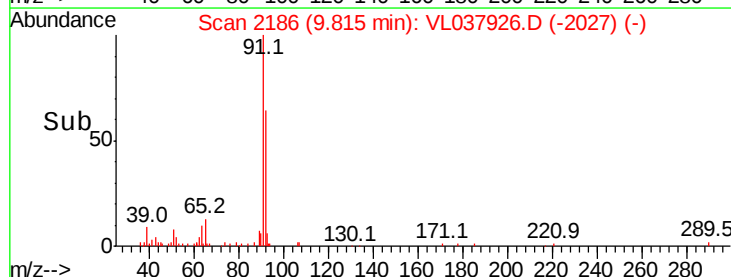
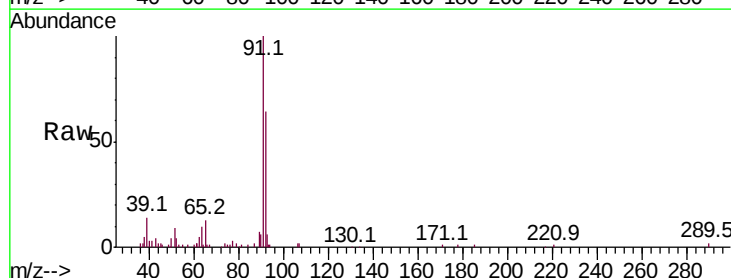
Acq: 27 Oct 2021 21:29

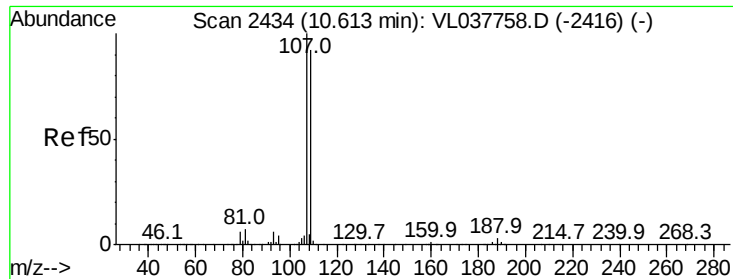
Tgt Ion: 91 Resp: 86278

Ion Ratio Lower Upper

91 100

92 0.0 48.4 72.6#



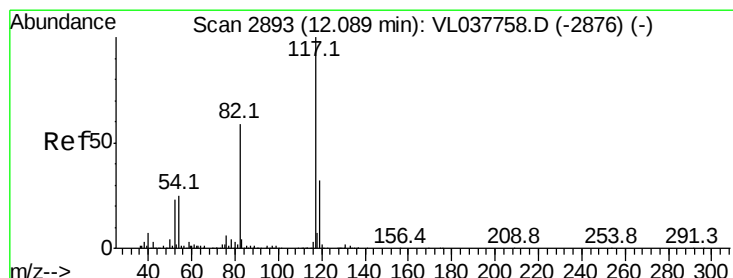
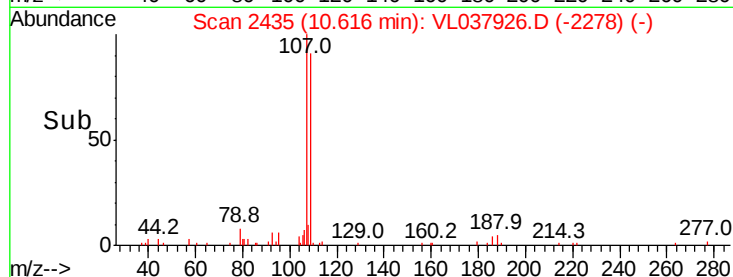
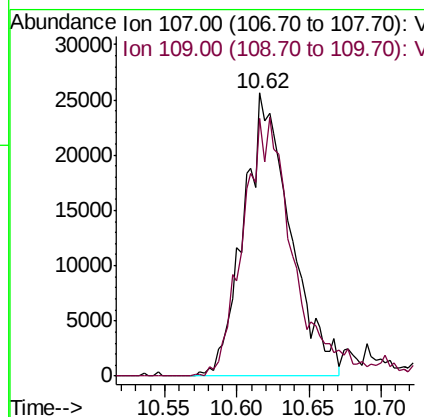
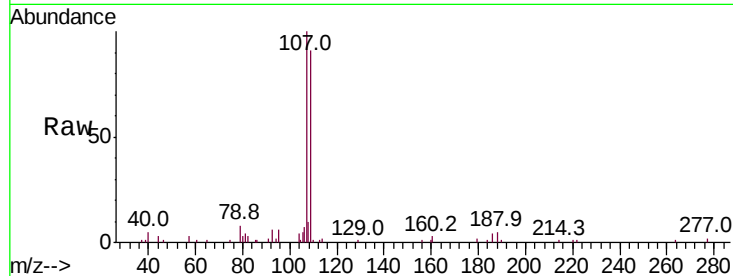


#54  
 1,2-Dibromoethane  
 Concen: 0.307 ppbv m  
 RT: 10.62  
 Instrument: MSVOA\_1  
 Delta R.T.:  
 Lab File: ClientSampleId:  
 Acq: 27 Oct 2021 21:29  
 LOD-MDL-AIR-01-QT4-2021

Tot Ion:1  
 Ion Rati  
 107 100  
 109 90.

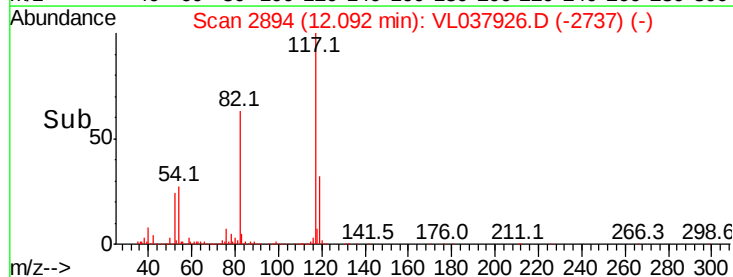
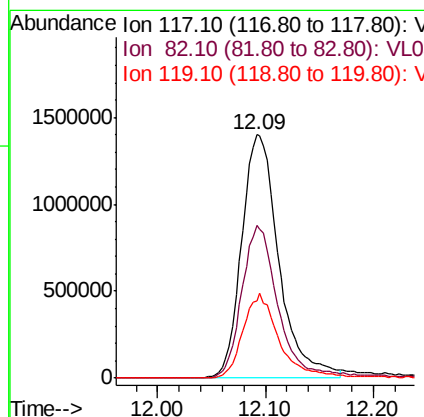
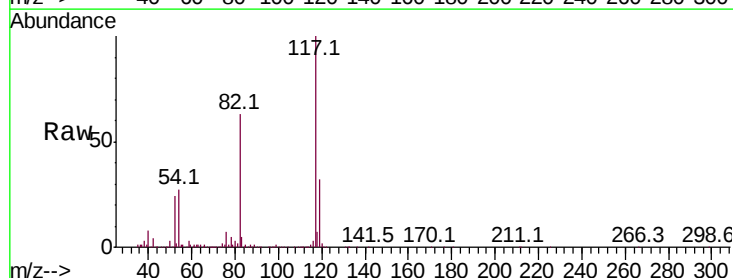
Manual Integrations  
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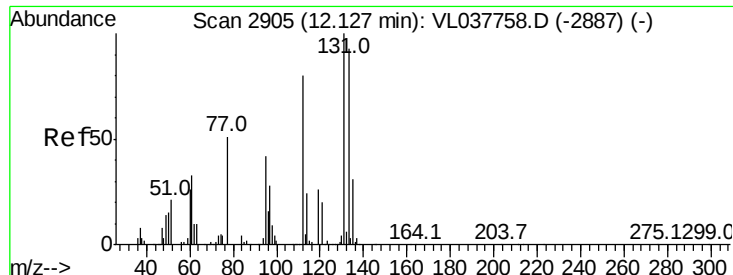
Reviewed By :Semsettin Yesilyurt 10/28/2021  
 Supervised By :Mahesh Dadoda 10/29/2021



#55  
 Chlorobenzene-d5  
 Concen: 10.000 ppbv  
 RT: 12.09 min Scan# 2894  
 Delta R.T. 0.00 min  
 Lab File: VL037926.D  
 Acq: 27 Oct 2021 21:29

Tgt Ion:117 Resp: 3372868  
 Ion Ratio Lower Upper  
 117 100  
 82 63.3 52.2 78.2  
 119 34.5 26.0 39.0



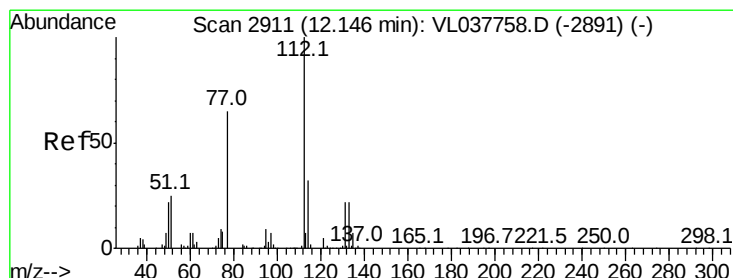
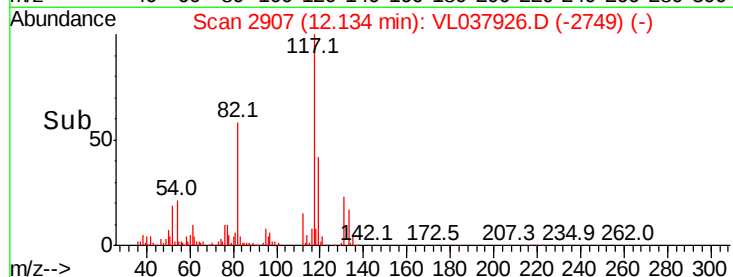
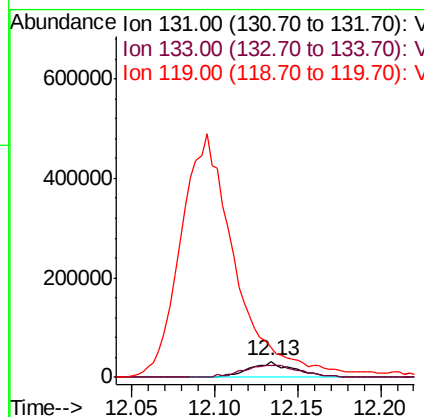
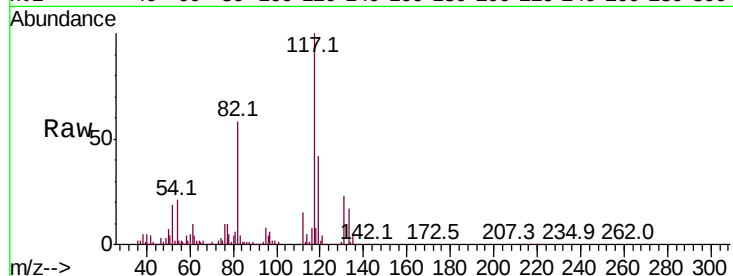


#56  
 1,1,1,2-Tetrachloroethane  
 Concen: 0.425 ppbv  
 RT: 12.13 min  
 Delta R.T. 0.00 min  
 Lab File: VL037926.D  
 Acq: 27 Oct 2021 21:29

Manual Integrations  
 APPROVED

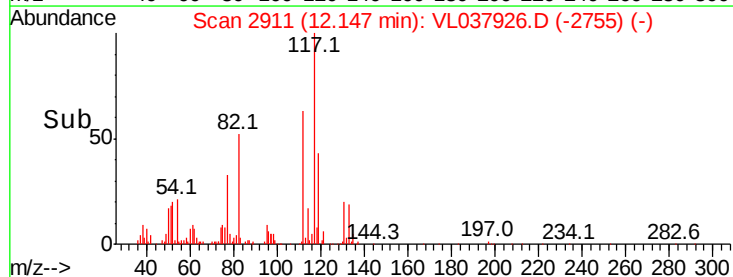
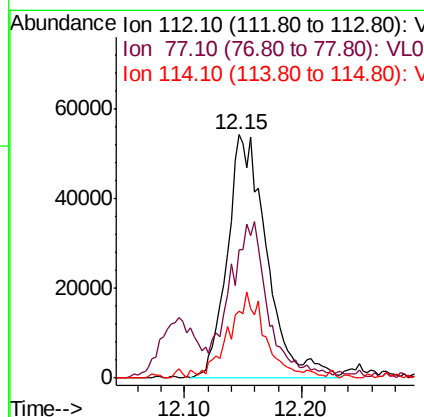
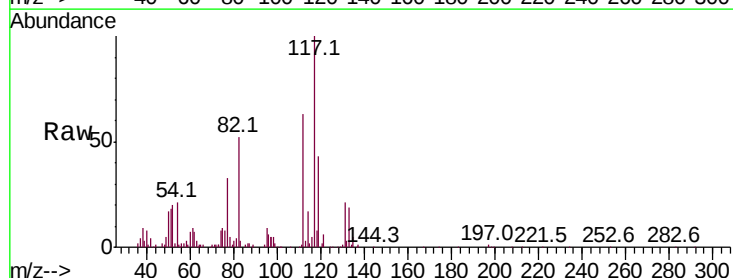
Tot Ion: 1  
 Ion Ratio  
 131 100  
 133 102.  
 119 1975

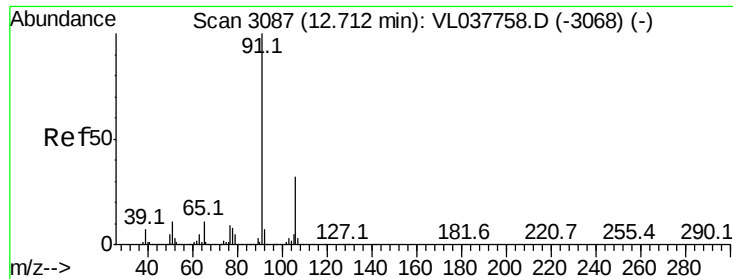
Reviewed By : Semsettin Yesilyurt 10/28/2021  
 Supervised By : Mahesh Dadoda 10/29/2021



#57  
 Chlorobenzene  
 Concen: 0.457 ppbv m  
 RT: 12.15 min Scan# 2911  
 Delta R.T. 0.00 min  
 Lab File: VL037926.D  
 Acq: 27 Oct 2021 21:29

Tgt Ion: 112 Resp: 126319  
 Ion Ratio Lower Upper  
 112 100  
 77 52.6 51.8 77.8  
 114 27.4 28.8 35.2#





#58

Ethyl Benzene

Concen: 0.248 ppbv m

RT: 12.72

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

Acq: 27 Oct 2021 21:29

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/28/2021

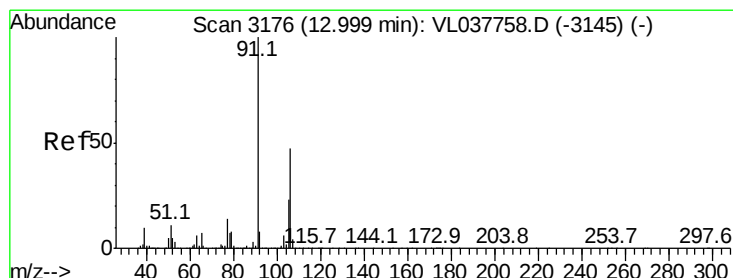
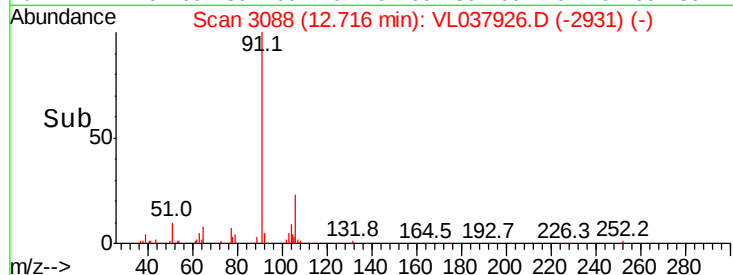
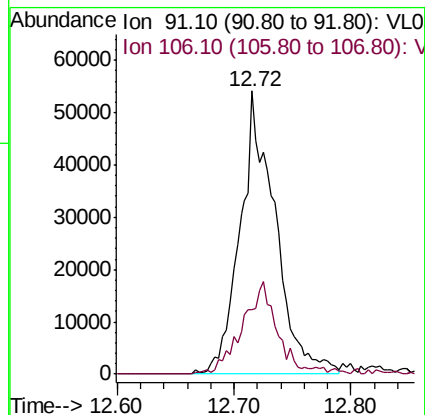
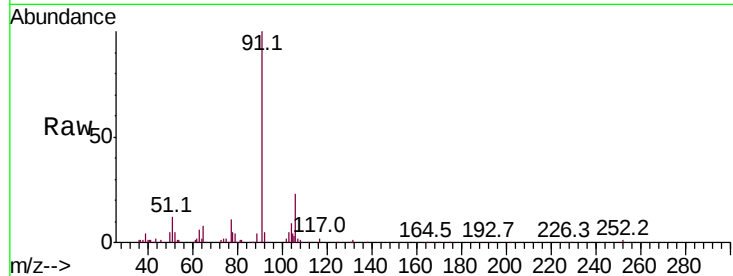
Supervised By :Mahesh Dadoda 10/29/2021

Tot Ion:

Ion Ratio

91 100

106 22.



#59

m/p-Xylene

Concen: 0.589 ppbv m

RT: 13.01 min Scan# 3179

Delta R.T. 0.01 min

Lab File: VL037926.D

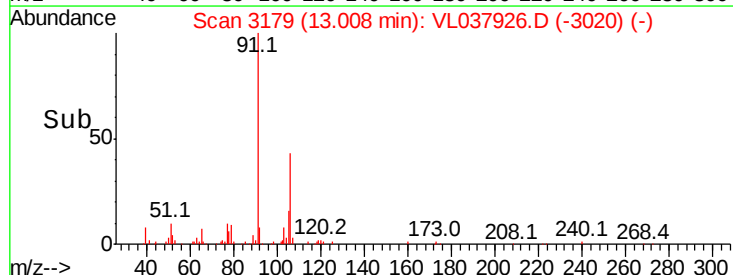
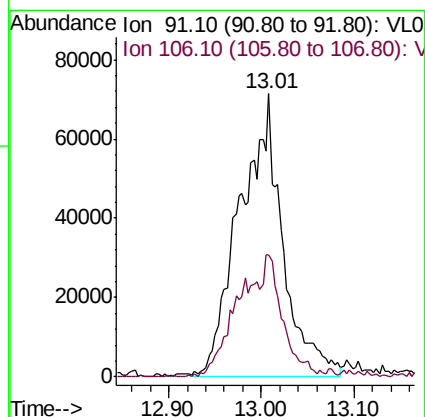
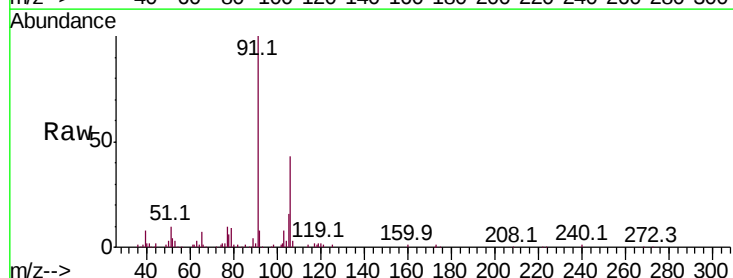
Acq: 27 Oct 2021 21:29

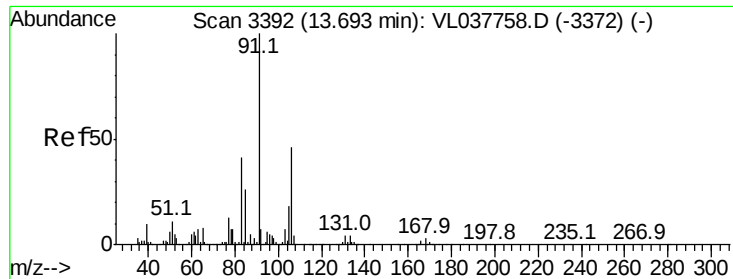
Tgt Ion: 91 Resp: 229081

Ion Ratio Lower Upper

91 100

106 0.0 36.7 55.1#



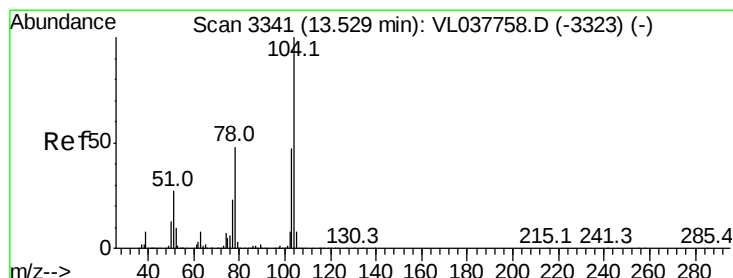
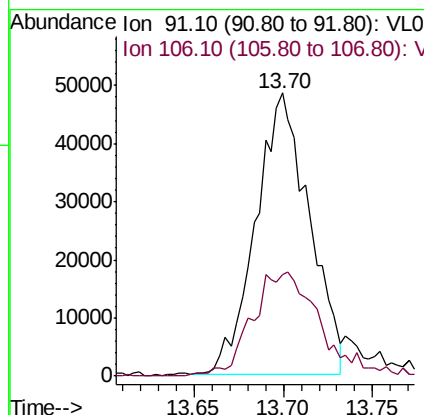
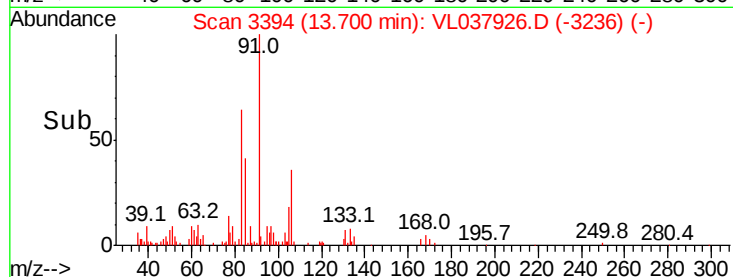
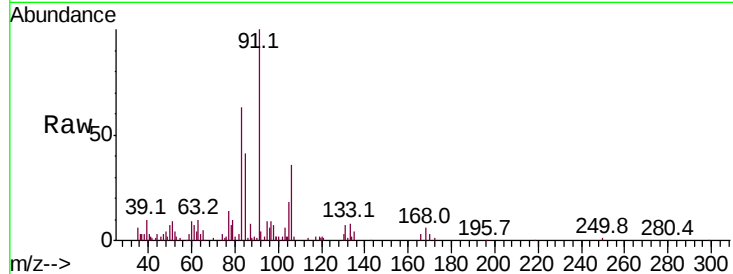


#60  
o-Xylene  
Concen: 0.273 ppbv  
RT: 13.70  
Delta R.T. MSVOA\_1  
Lab File: ClientSampleId :  
Acq: 27 Oct 2021 21:29 LOD-MDL-AIR-01-QT4-2021

Tot Ion:  
Ion Ratio  
91 100  
106 48.

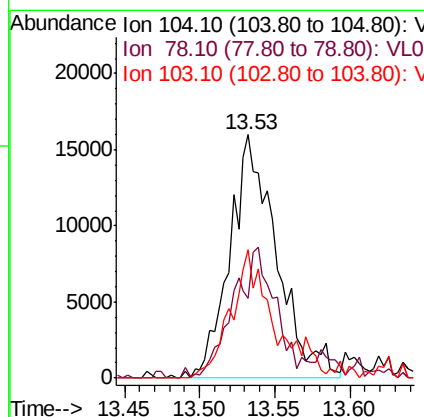
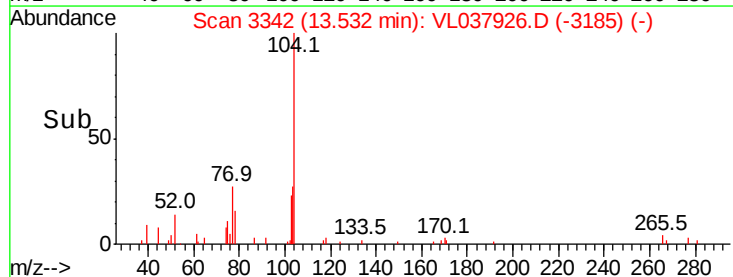
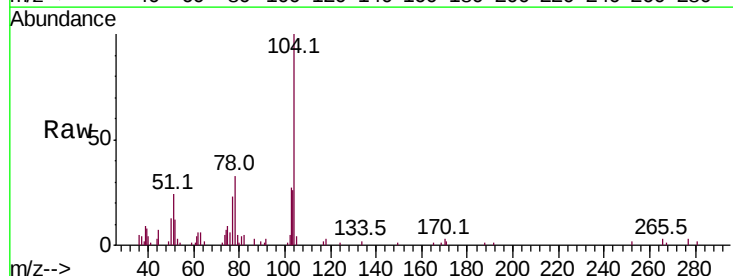
Manual Integrations  
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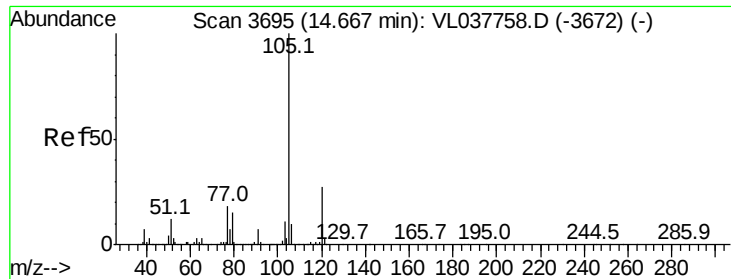
Reviewed By :Semsettin Yesilyurt 10/28/2021  
Supervised By :Mahesh Dadoda 10/29/2021



#61  
Styrene  
Concen: 0.191 ppbv m  
RT: 13.53 min Scan# 3342  
Delta R.T. 0.00 min  
Lab File: VL037926.D  
Acq: 27 Oct 2021 21:29

Tgt Ion:104 Resp: 34454  
Ion Ratio Lower Upper  
104 100  
78 50.0 40.6 61.0  
103 53.4 39.6 59.4





#62

Isopropylbenzene

Concen: 0.340 ppbv

RT: 14.67

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 27 Oct 2021 21:29

Tot Ion:1

Ion Ratio

105 100

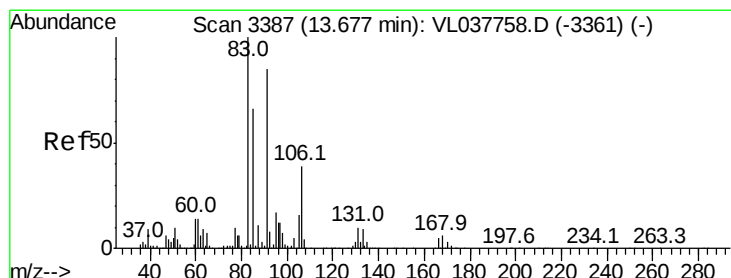
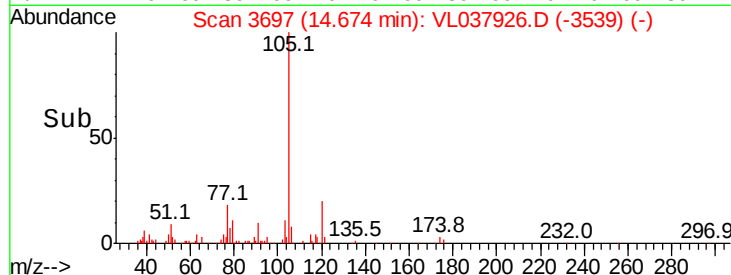
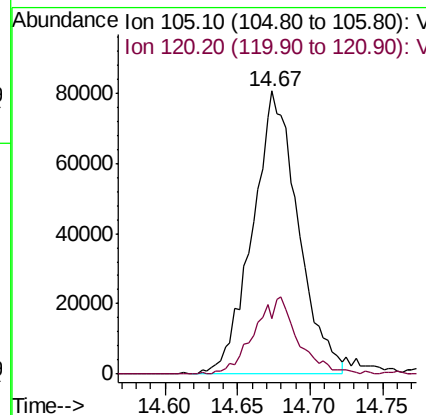
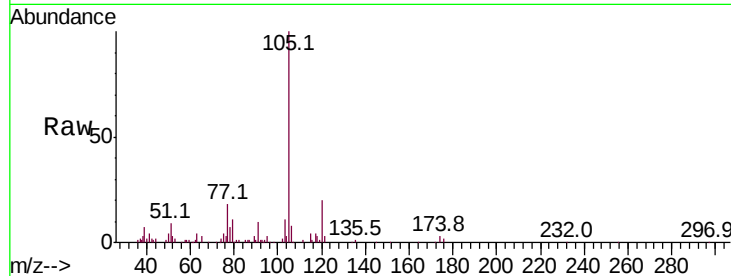
120 26.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2021

Supervised By :Mahesh Dadoda 10/29/2021



#63

1,1,2,2-Tetrachloroethane

Concen: 0.380 ppbv

RT: 13.68 min Scan# 3389

Delta R.T. 0.01 min

Lab File: VL037926.D

Acq: 27 Oct 2021 21:29

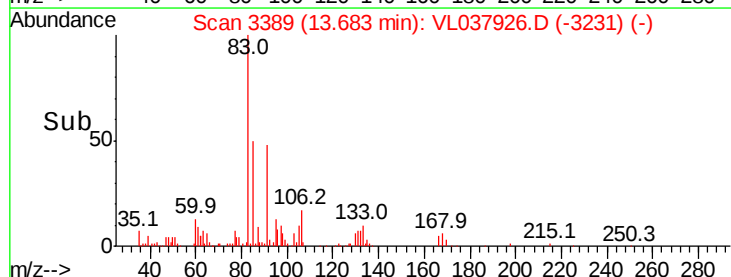
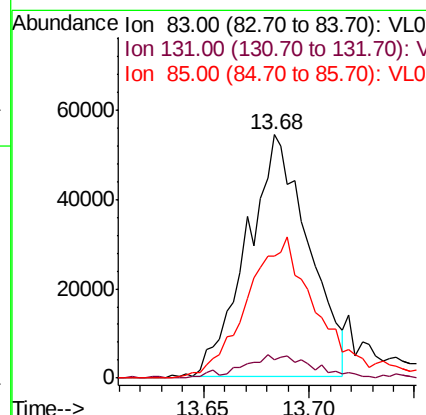
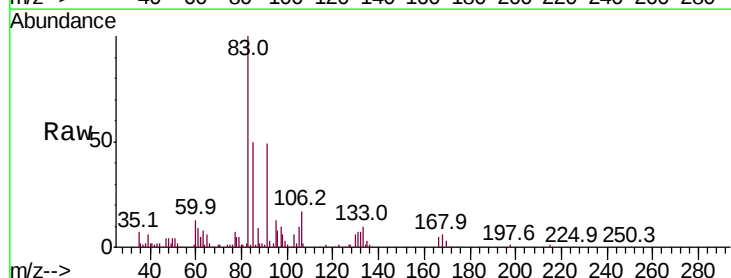
Tgt Ion: 83 Resp: 109340

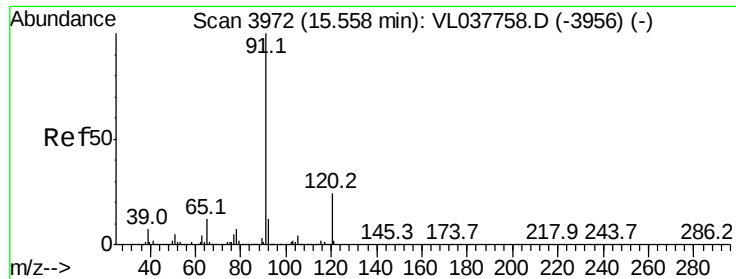
Ion Ratio Lower Upper

83 100

131 11.7 5.0 15.0

85 72.0 33.1 99.5





#64

n-propylbenzene

Concen: 0.325 ppbv m

RT: 15.56

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

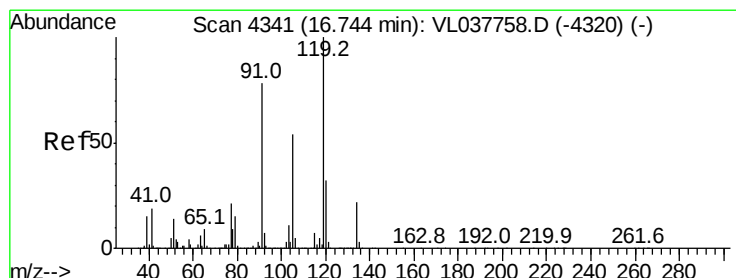
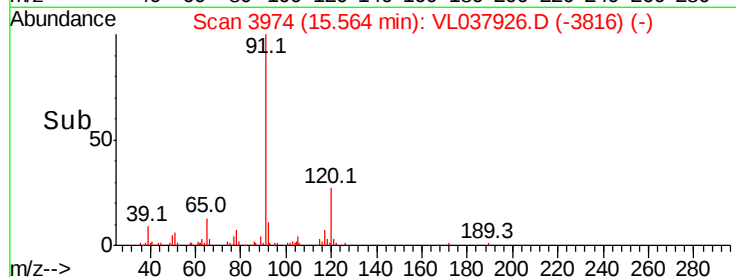
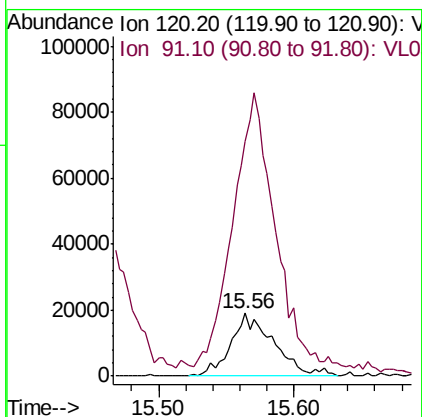
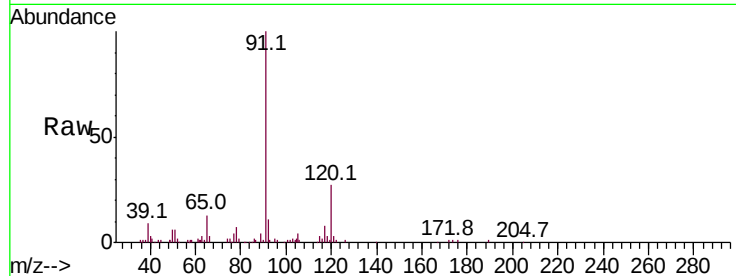
Acq: 27 Oct 2021 21:29

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/28/2021

Supervised By :Mahesh Dadoda 10/29/2021



#65

tert-Butylbenzene

Concen: 0.307 ppbv

RT: 16.76 min Scan# 4346

Delta R.T. 0.02 min

Lab File: VL037926.D

Acq: 27 Oct 2021 21:29

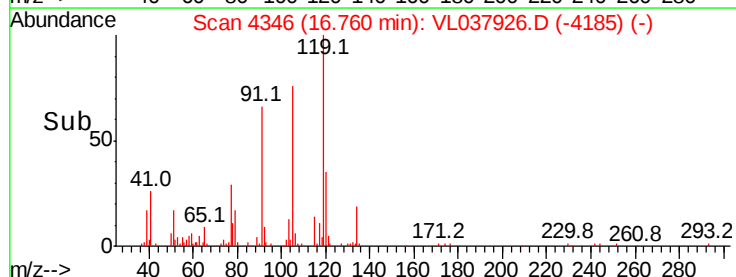
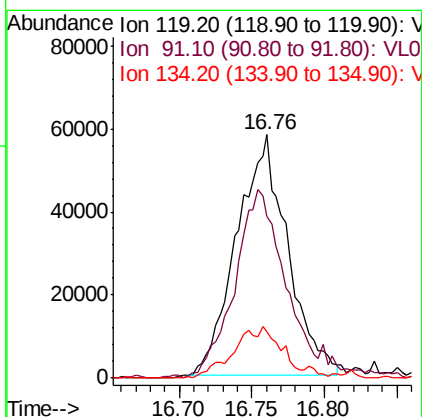
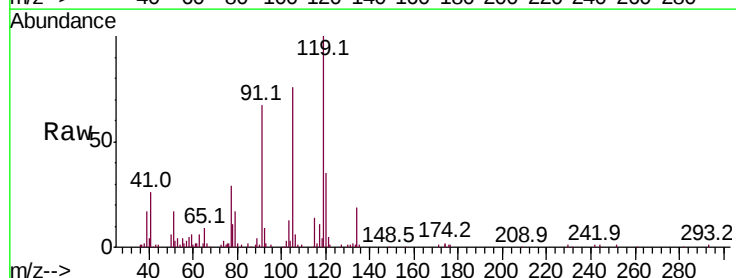
Tgt Ion:119 Resp: 140249

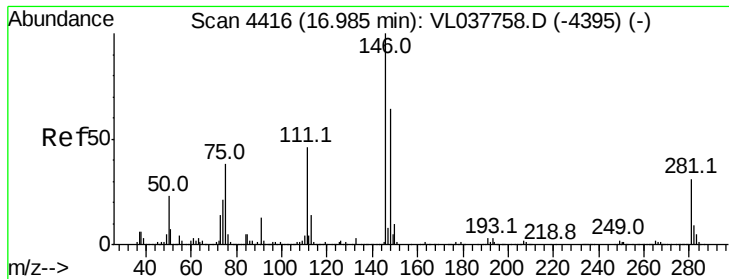
Ion Ratio Lower Upper

119 100

91 83.0 62.6 94.0

134 22.1 16.3 24.5



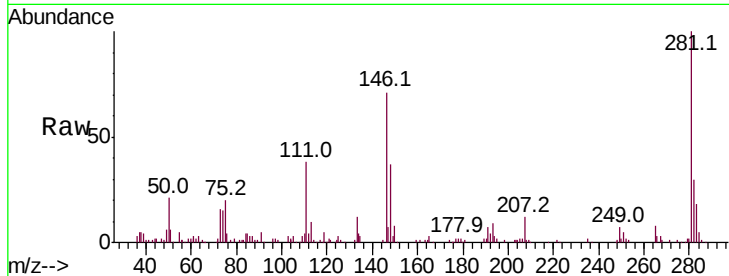


#66  
Benzyl Chloride  
Concen: 0.254 ppbv m  
RT: 17.00 min  
Instrument: MSVOA\_1  
Delta R.T.: 0.02 min  
Lab File: VL037926.D  
Acq: 27 Oct 2021 21:29

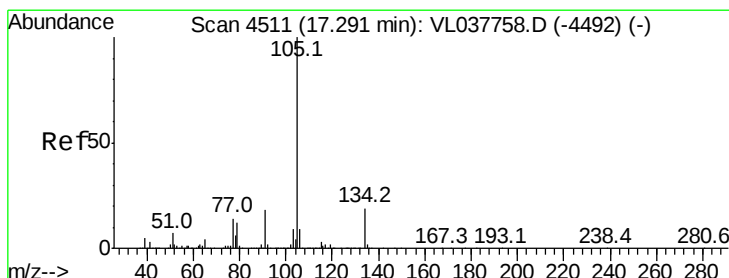
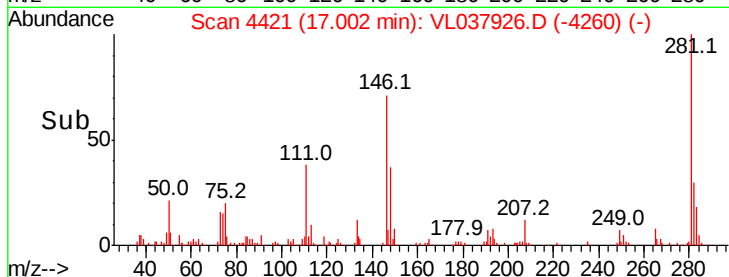
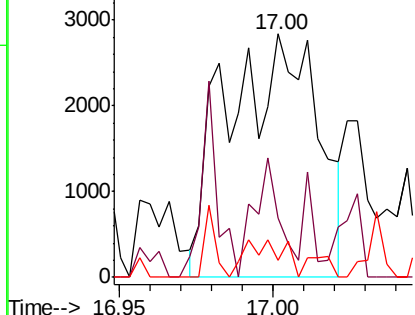
Tot Ion:  
Ion Ratio  
91 100  
126 44.  
128 18.

Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 10/28/2021  
Supervised By :Mahesh Dadoda 10/29/2021

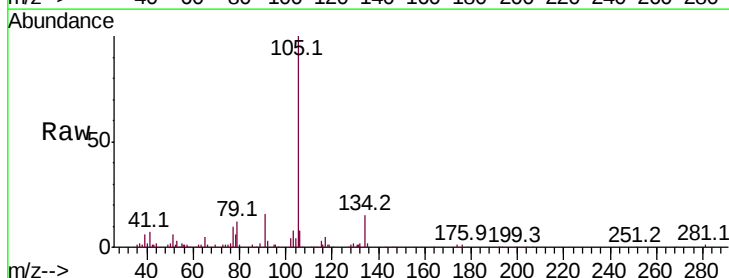


Abundance Ion 91.10 (90.80 to 91.80): VL0  
Ion 126.10 (125.80 to 126.80): V  
Ion 128.10 (127.80 to 128.80): V

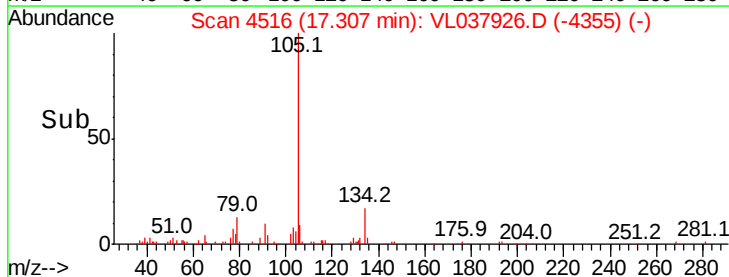
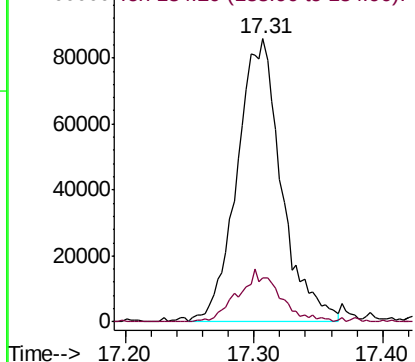


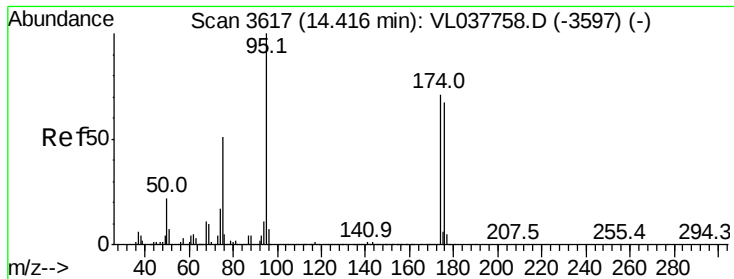
#67  
sec-Butylbenzene  
Concen: 0.328 ppbv m  
RT: 17.31 min Scan# 4516  
Delta R.T.: 0.02 min  
Lab File: VL037926.D  
Acq: 27 Oct 2021 21:29

Tgt Ion:105 Resp: 205042  
Ion Ratio Lower Upper  
105 100  
134 17.8 15.4 23.0



Abundance Ion 105.10 (104.80 to 105.80): V  
Ion 134.20 (133.90 to 134.90): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.273 ppbv

RT: 14.42

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 27 Oct 2021 21:29

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/28/2021

Supervised By :Mahesh Dadoda 10/29/2021

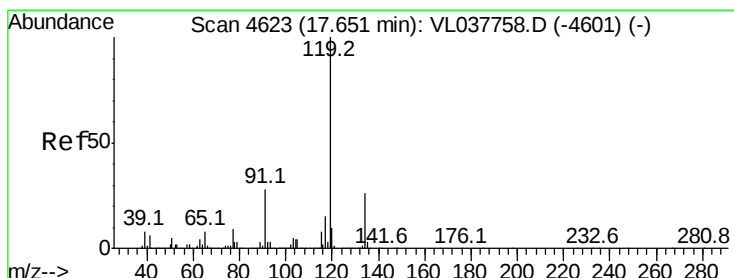
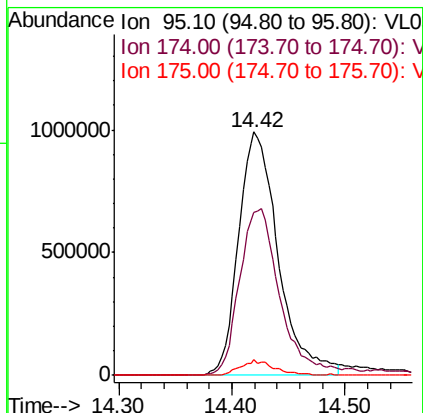
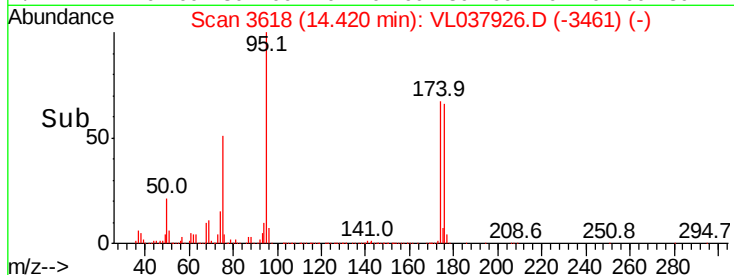
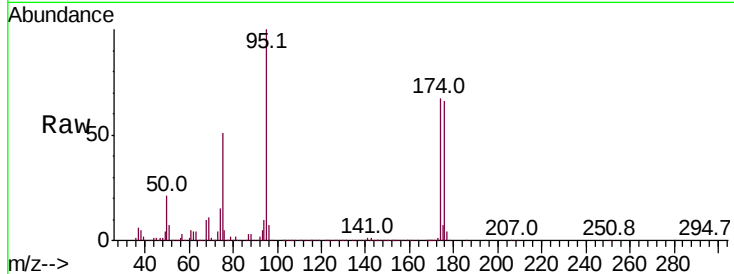
Tot Ion:

Ion Ratio

95 100

174 73.

175 5.



#69

p-Isopropyltoluene

Concen: 0.274 ppbv m

RT: 17.66 min Scan# 4627

Delta R.T. 0.01 min

Lab File: VL037926.D

Acq: 27 Oct 2021 21:29

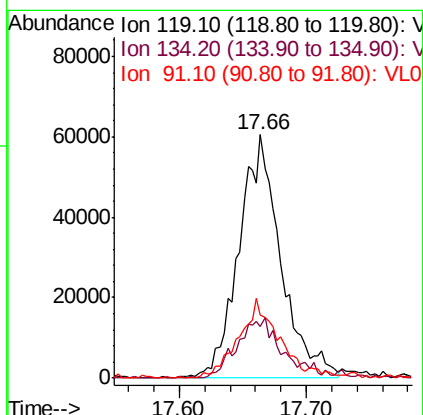
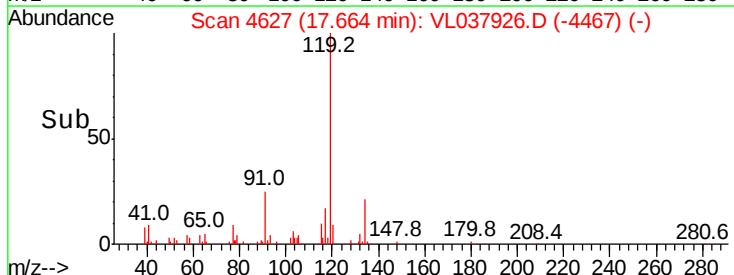
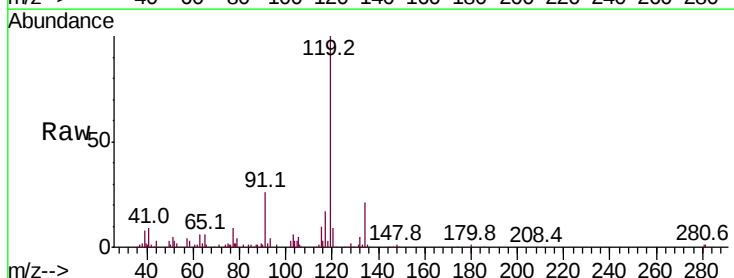
Tgt Ion:119 Resp: 138785

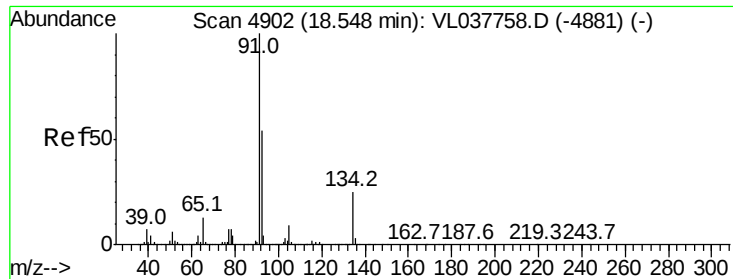
Ion Ratio Lower Upper

119 100

134 0.0 21.2 31.8#

91 0.0 22.2 33.4#



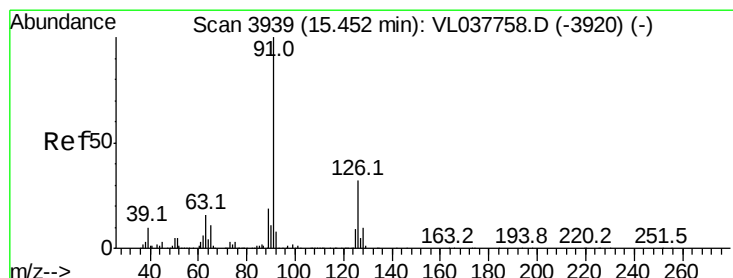
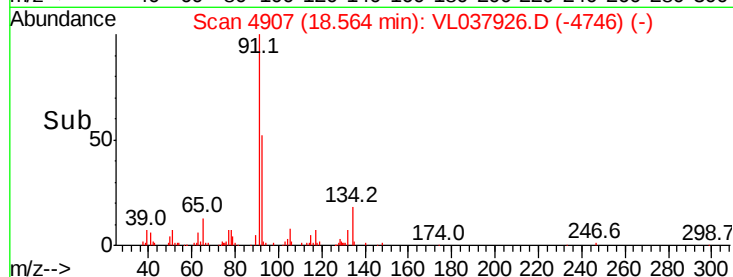
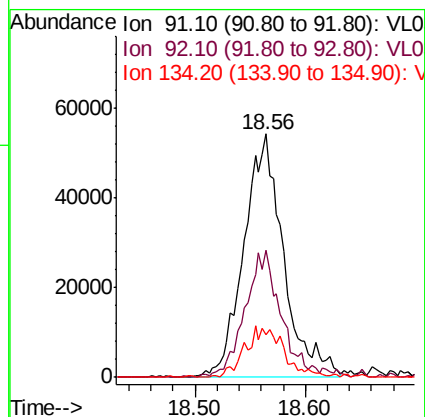
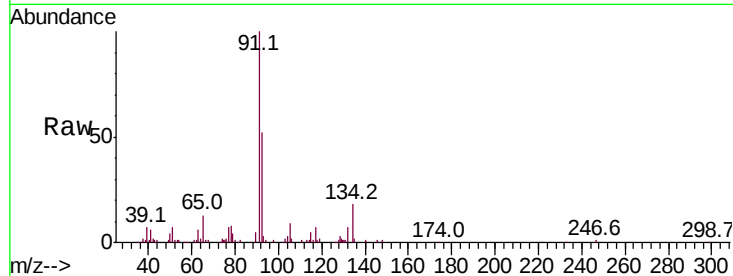


#70  
n-Butylbenzene  
Concen: 0.281 ppbv m  
RT: 18.56  
Instrument: MSVOA\_1  
Delta R.T.  
Lab File: ClientSampled:  
Acq: 27 Oct 2021 21:29

Tot Ion:  
Ion Ratio  
91 100  
92 0.  
134 20.

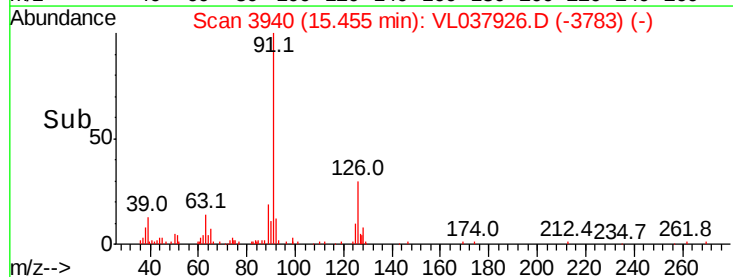
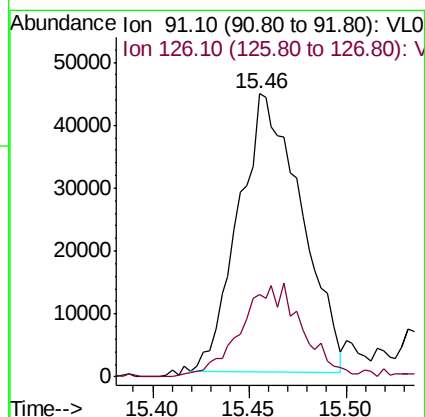
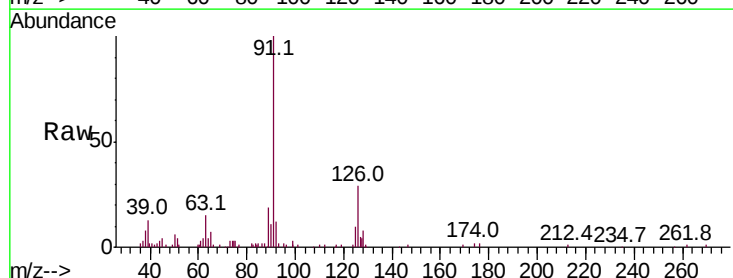
Manual Integrations  
APPROVED

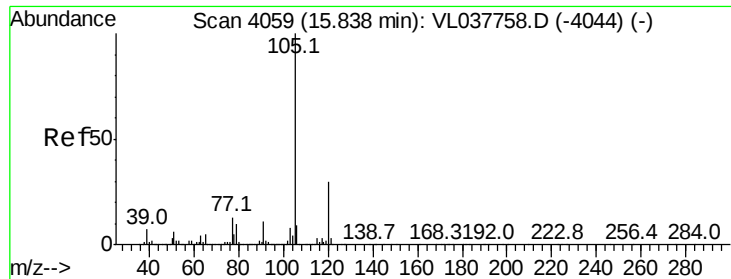
Reviewed By :Semsettin Yesilyurt 10/28/2021  
Supervised By :Mahesh Dadoda 10/29/2021



#71  
2-Chlorotoluene  
Concen: 0.272 ppbv  
RT: 15.46 min Scan# 3940  
Delta R.T. 0.00 min  
Lab File: VL037926.D  
Acq: 27 Oct 2021 21:29

Tgt Ion: 91 Resp: 99712  
Ion Ratio Lower Upper  
91 100  
126 32.8 13.6 54.6





#72

4-Ethyltoluene

Concen: 0.276 ppbv m

RT: 15.85

Delta R.T. MSVOA\_L

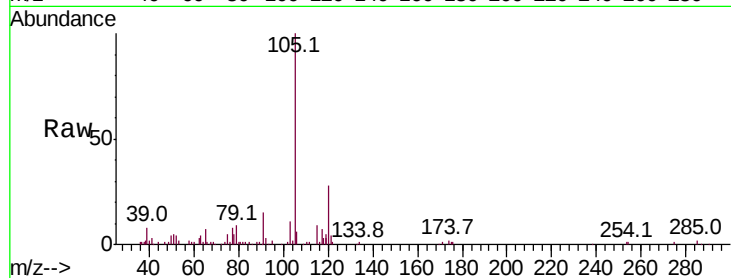
Lab File: ClientSampleId:

Acq: 27 Oct 2021 21:29

Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 10/28/2021  
Supervised By :Mahesh Dadoda 10/29/2021

| Tot Ion | Ion  | Ratio     |
|---------|------|-----------|
| 105     | 100  |           |
| 120     | 29.  |           |
| 91      | 14.  |           |
| 77      | 15.2 | 10.3 15.5 |



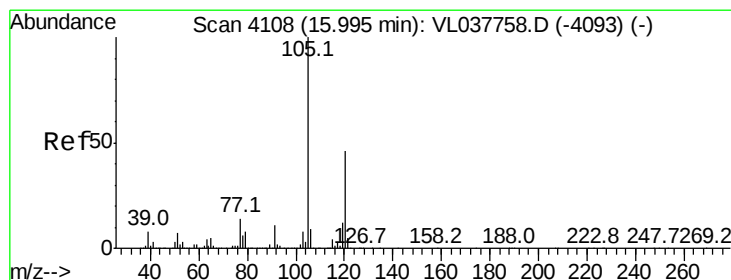
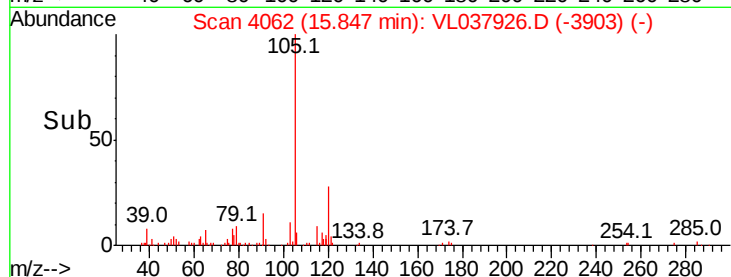
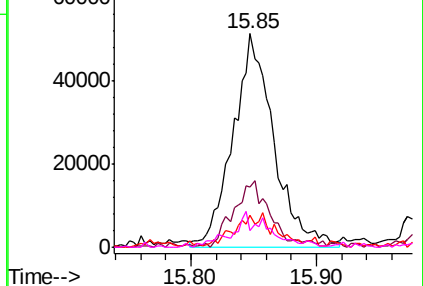
Abundance

Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#73

1,3,5-Trimethylbenzene

Concen: 0.295 ppbv m

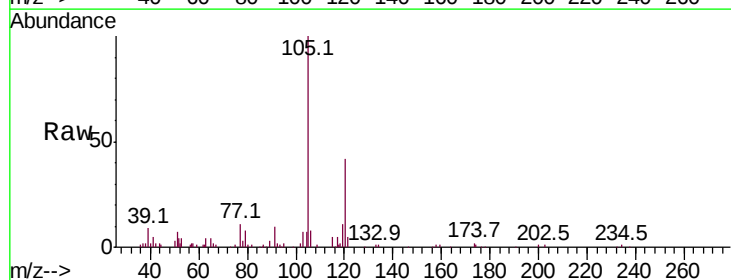
RT: 16.00 min Scan# 4111

Delta R.T. 0.01 min

Lab File: VL037926.D

Acq: 27 Oct 2021 21:29

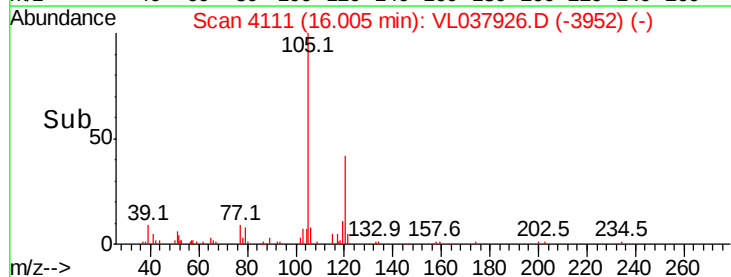
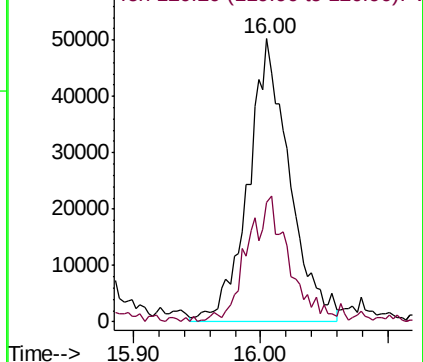
| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 105     | 100  |       | 113458 |       |       |
| 120     | 42.0 |       |        | 36.6  | 54.8  |

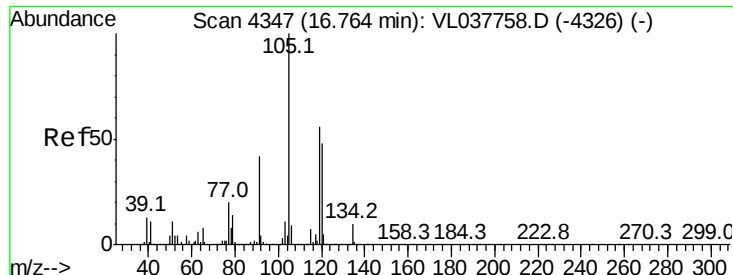


Abundance

Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#74

1,2,4-Trimethylbenzene

Concen: 0.319 ppbv

RT: 16.77

Delta R.T. MSVOA\_L

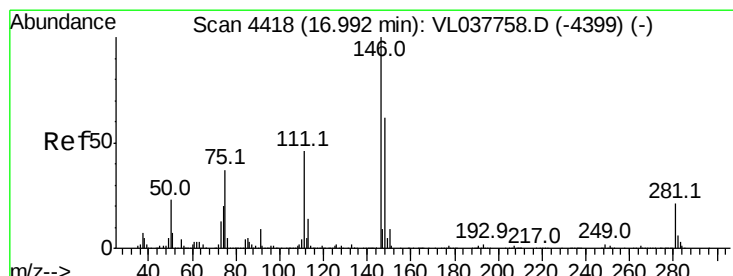
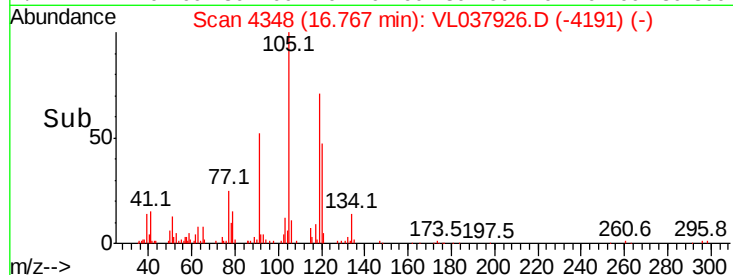
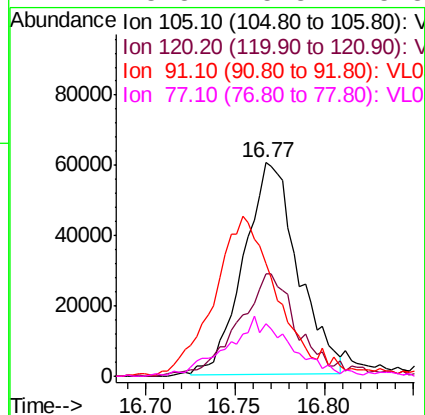
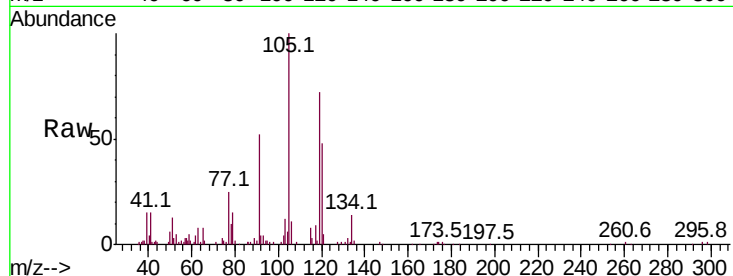
Lab File: ClientSampleId:

Acq: 27 Oct 2021 21:29

Manual Integrations  
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| Tot Ion | Ion  | Ratio     |
|---------|------|-----------|
| 105     | 100  |           |
| 120     | 45.  |           |
| 91      | 48.  |           |
| 77      | 23.8 | 15.8 23.8 |

Reviewed By :Semsettin Yesilyurt 10/28/2021  
Supervised By :Mahesh Dadoda 10/29/2021



#75

1,3-Dichlorobenzene

Concen: 0.419 ppbv m

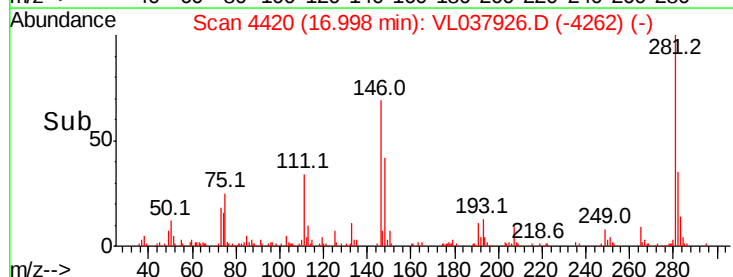
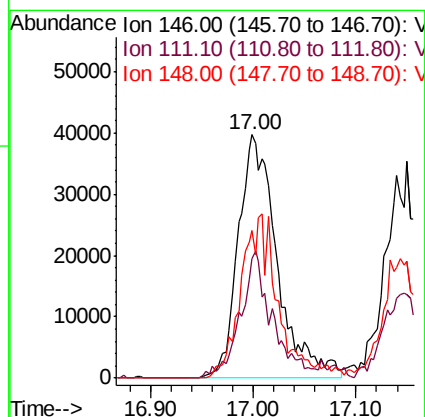
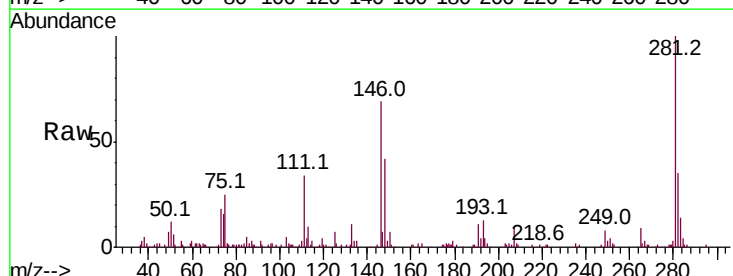
RT: 17.00 min Scan# 4420

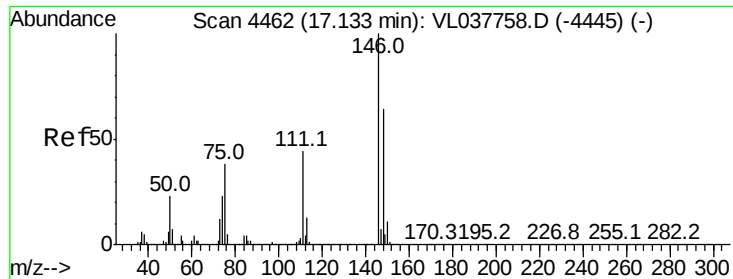
Delta R.T. 0.01 min

Lab File: VL037926.D

Acq: 27 Oct 2021 21:29

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 146     | 100   | 104820 |       |       |
| 111     | 42.6  |        | 22.8  | 68.4  |
| 148     | 0.0   |        | 32.8  | 98.3# |





#76

1,4-Dichlorobenzene

Concen: 0.344 ppbv m

RT: 17.15

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

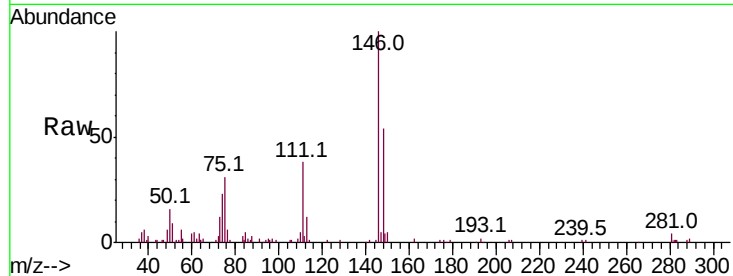
Acq: 27 Oct 2021 21:29

Manual Integrations

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Supervised By :Mahesh Dadoda 10/29/2021



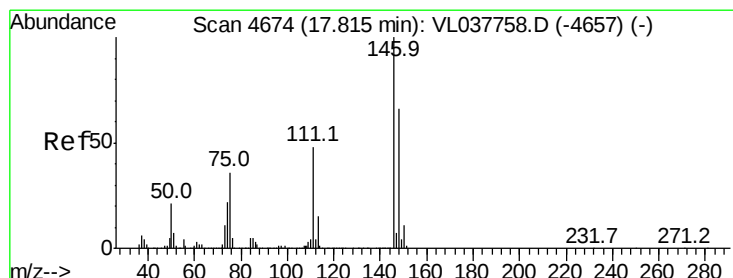
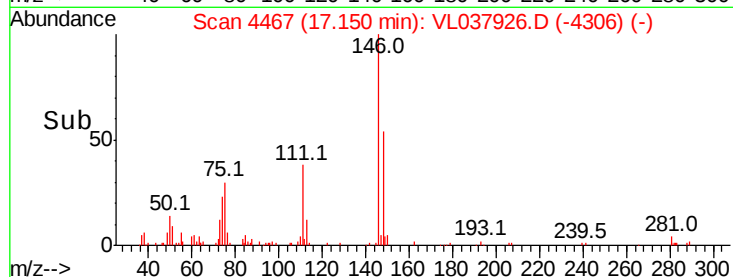
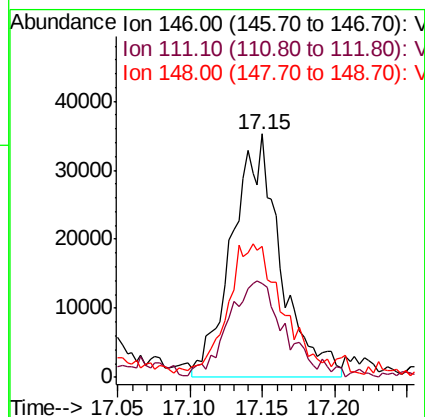
Tot Ion:1

Ion Ratio

146 100

111 0.

148 0.



#77

1,2-Dichlorobenzene

Concen: 0.391 ppbv m

RT: 17.82 min Scan# 4677

Delta R.T. 0.01 min

Lab File: VL037926.D

Acq: 27 Oct 2021 21:29

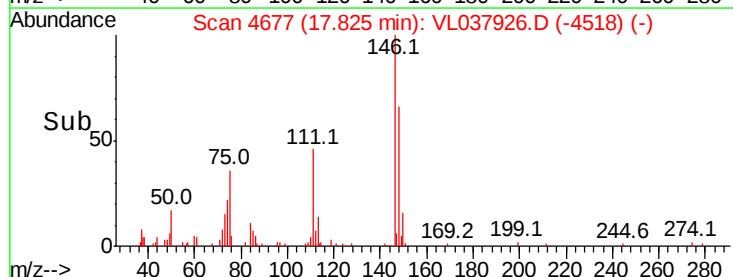
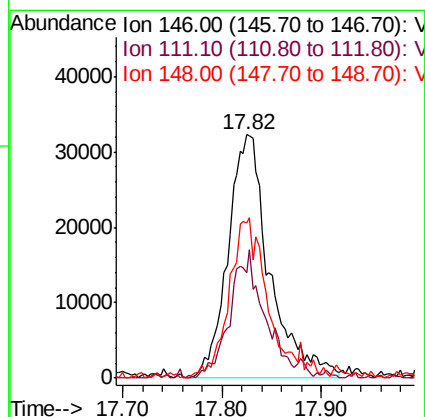
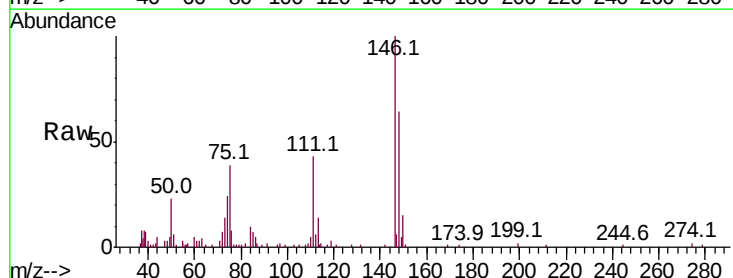
Tgt Ion:146 Resp: 93921

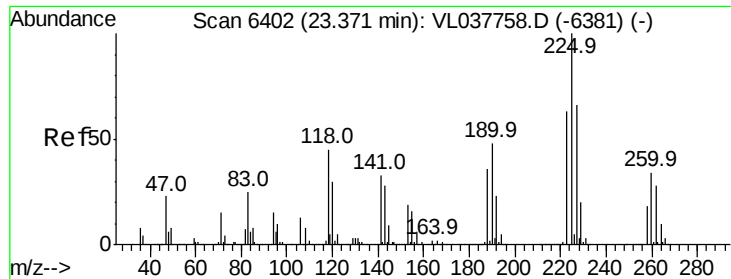
Ion Ratio Lower Upper

146 100

111 46.1 23.6 70.8

148 62.2 32.9 98.6





#78

Hexachloro-1,3-Butadiene

Concen: 0.425 ppbv m

RT: 23.38

Delta R.T. MSVOA\_L

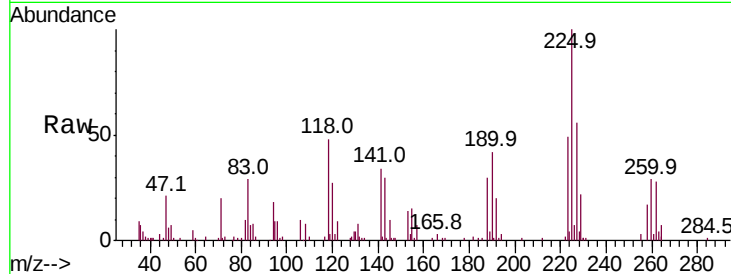
Lab File: ClientSampleId:

Acq: 27 Oct 2021 21:29 LOD-MDL-AIR-01-QT4-2021

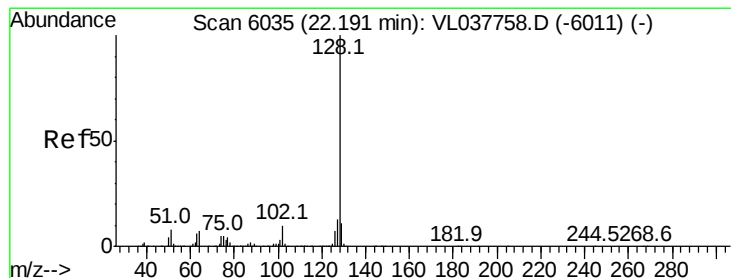
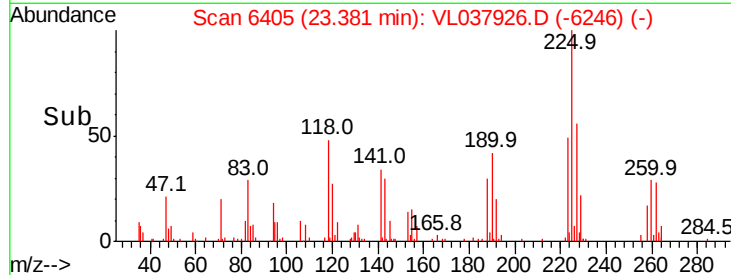
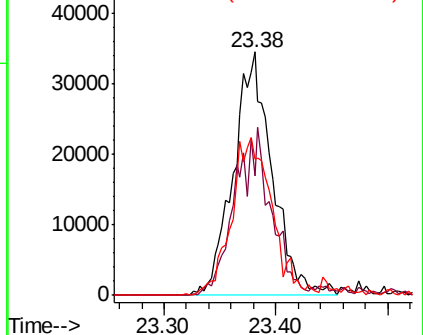
Tot Ion: 2  
Ion Ratio  
225 100  
223 64.  
227 67.

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2021  
Supervised By :Mahesh Dadoda 10/29/2021



Abundance Ion 224.90 (224.60 to 225.60): V  
Ion 222.90 (222.60 to 223.60): V  
Ion 226.90 (226.60 to 227.60): V



#79

Naphthalene

Concen: 0.167 ppbv m

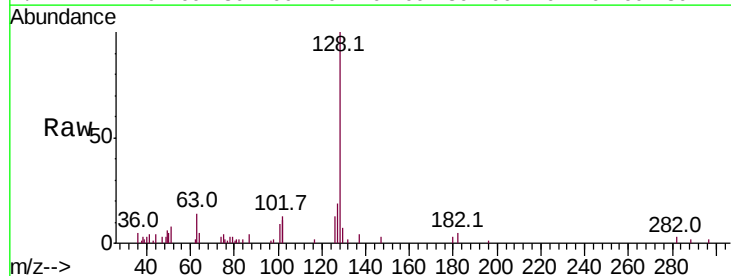
RT: 22.21 min Scan# 6040

Delta R.T. 0.02 min

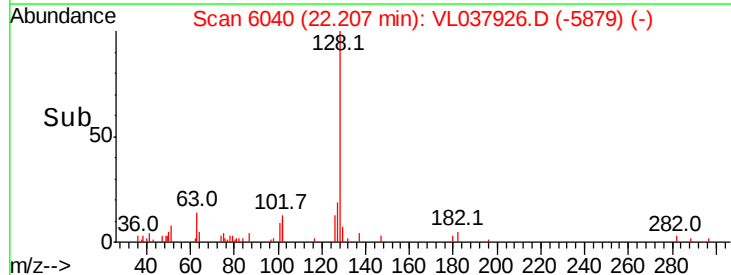
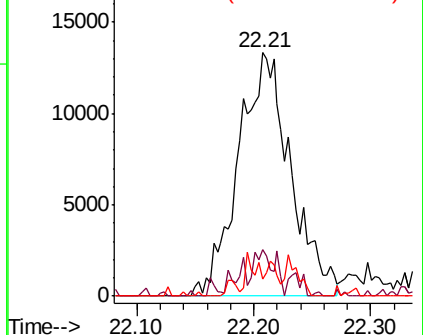
Lab File: VL037926.D

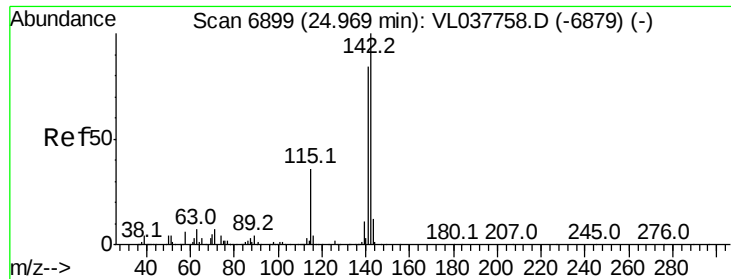
Acq: 27 Oct 2021 21:29

Tgt Ion: 128 Resp: 41291  
Ion Ratio Lower Upper  
128 100  
127 19.0 10.1 15.1#  
129 7.1 9.1 13.7#



Abundance Ion 128.10 (127.80 to 128.80): V  
Ion 127.10 (126.80 to 127.80): V  
Ion 129.10 (128.80 to 129.80): V



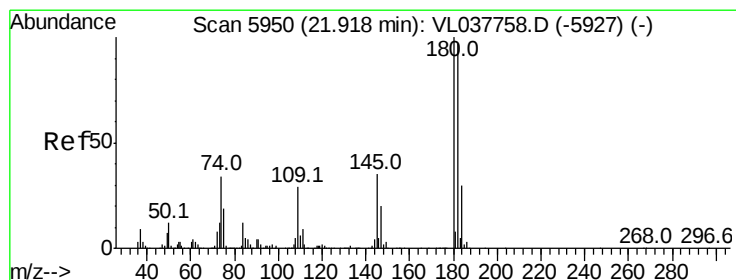
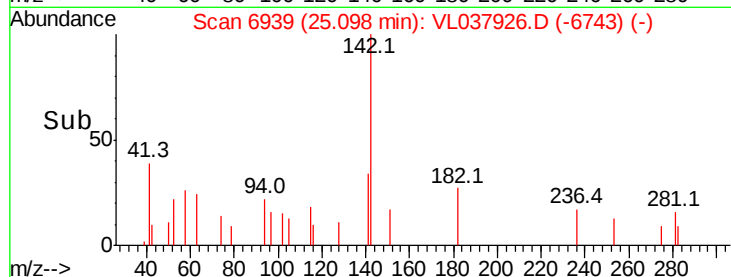
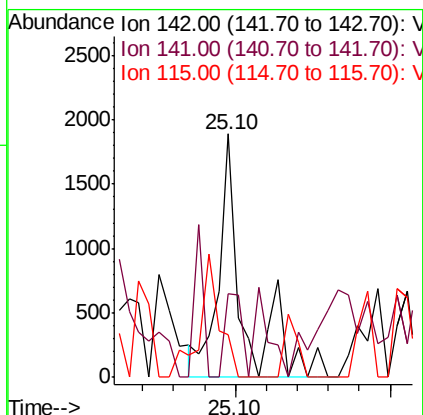
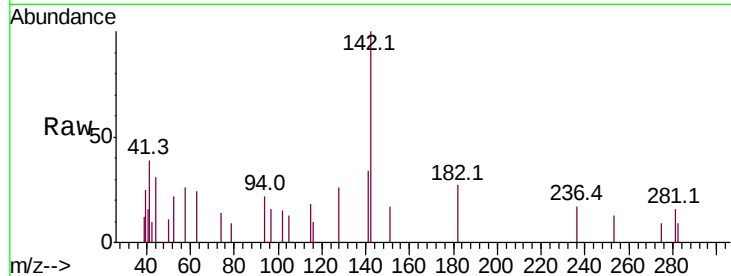


#80  
Naphthalene, 2-methyl-  
Concen: 0.016 ppbv  
RT: 25.10 min  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 27 Oct 2021 21:29  
LOD-MDL-AIR-01-QT4-2021

Tot Ion:1  
Ion Rati  
142 100  
141 71.  
115 41.

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2021  
Supervised By :Mahesh Dadoda 10/29/2021



#81  
1,2,4-Trichlorobenzene  
Concen: 0.259 ppbv m  
RT: 21.93 min Scan# 5955  
Delta R.T. 0.02 min  
Lab File: VL037926.D  
Acq: 27 Oct 2021 21:29

Tgt Ion:180 Resp: 40987  
Ion Ratio Lower Upper  
180 100  
182 0.0 77.6 116.4#  
184 30.4 25.0 37.4

