

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL052521\  
 Data File : VL037058.D  
 Acq On : 25 May 2021 13:22  
 Operator : SY/AP  
 Sample : M2262-15 0.45  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL-AIR-03-QT2-2021

Manual Integrations  
 APPROVED

MMDadoda  
 5/27/2021 10:31:29 AM

Quant Time: May 26 01:24:54 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL051821AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue May 18 2021  
 QLast Update : Tue May 18 12:00:15 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.65  | 49   | 1113795  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.16  | 114  | 3347017  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.07 | 117  | 3042723  | 10.00 | ppbv  | 0.00     |

## System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.39  | 95    | 2128166  | 9.31     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 93.10% |

## Target Compounds

|                                | R.T. | QIon | Response | Conc  | Units  | Qvalue |
|--------------------------------|------|------|----------|-------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.02 | 85   | 123641   | 0.654 | ppbv   | 97     |
| 3) Chlorodifluoromethane       | 2.97 | 51   | 129020   | 0.632 | ppbv   | 94     |
| 4) Chloromethane               | 3.12 | 50   | 38058m   | 0.548 | ppbv   |        |
| 5) Vinyl Chloride              | 3.24 | 62   | 41808    | 0.551 | ppbv   | 96     |
| 6) Bromomethane                | 3.46 | 94   | 25385m   | 0.635 | ppbv   |        |
| 7) Chloroethane                | 3.55 | 64   | 15205m   | 0.617 | ppbv   |        |
| 8) Dichlorotetrafluoroethane   | 3.17 | 85   | 110645   | 0.624 | ppbv   | 96     |
| 9) Propene                     | 2.99 | 41   | 40297    | 0.552 | ppbv   | 93     |
| 10) Heptane                    | 8.10 | 43   | 88783m   | 0.488 | ppbv   |        |
| 11) Trichlorofluoromethane     | 3.93 | 101  | 108828m  | 0.622 | ppbv   |        |
| 12) 1,1,2-Trichlorotrifluoroet | 4.47 | 101  | 78999    | 0.634 | ppbv   | 95     |
| 13) Ethanol                    | 3.62 | 45   | 8440m    | 0.866 | ppbv   |        |
| 14) Bromoethene                | 3.73 | 108  | 26049m   | 0.475 | ppbv   |        |
| 15) Acetone                    | 3.86 | 43   | 69919    | 0.613 | ppbv # | 65     |
| 16) 1,3-Butadiene              | 3.31 | 39   | 39733m   | 0.561 | ppbv   |        |
| 17) tert-Butyl alcohol         | 4.32 | 59   | 60927m   | 0.583 | ppbv   |        |
| 18) 1,1-Dichloroethene         | 4.28 | 96   | 33484m   | 0.581 | ppbv   |        |
| 19) Isopropyl Alcohol          | 3.99 | 45   | 42130m   | 0.687 | ppbv   |        |
| 20) Methylene Chloride         | 4.33 | 84   | 49991    | 0.817 | ppbv   | 96     |
| 21) Allyl Chloride             | 4.40 | 41   | 43465    | 0.505 | ppbv   | 99     |
| 22) trans-1,2-Dichloroethene   | 4.87 | 96   | 32092m   | 0.581 | ppbv   |        |
| 23) Vinyl Acetate              | 5.07 | 43   | 59151    | 0.327 | ppbv # | 92     |
| 24) 1,1-Dichloroethane         | 4.99 | 63   | 64620    | 0.496 | ppbv # | 94     |
| 25) Ethyl Acetate              | 5.67 | 43   | 135004   | 0.492 | ppbv # | 97     |
| 26) Hexane                     | 5.66 | 57   | 76305    | 0.545 | ppbv   | 91     |
| 27) Carbon Disulfide           | 4.53 | 76   | 52397    | 0.371 | ppbv # | 94     |
| 28) Methyl tert-Butyl Ether    | 5.04 | 73   | 69212    | 0.412 | ppbv   | 97     |
| 29) Chloroform                 | 5.74 | 83   | 115262   | 0.583 | ppbv   | 95     |
| 30) Cyclohexane                | 7.10 | 84   | 55625    | 0.467 | ppbv # | 91     |
| 31) cis-1,2-Dichloroethene     | 5.53 | 61   | 62820    | 0.500 | ppbv # | 86     |
| 32) 1,1,1-Trichloroethane      | 6.49 | 97   | 106097   | 0.499 | ppbv   | 95     |
| 34) 2-Butanone                 | 5.26 | 43   | 43365    | 0.356 | ppbv # | 75     |
| 35) Carbon Tetrachloride       | 7.00 | 117  | 110807   | 0.498 | ppbv   | 92     |
| 36) Benzene                    | 6.87 | 78   | 148637   | 0.516 | ppbv   | 99     |
| 37) 1,2-Dichloroethane         | 6.29 | 62   | 83220m   | 0.582 | ppbv   |        |
| 38) Trichloroethene            | 7.81 | 130  | 60786    | 0.493 | ppbv   | 87     |
| 39) 1,2-Dichloropropane        | 7.59 | 63   | 52070    | 0.469 | ppbv # | 83     |
| 40) 1,4-Dioxane                | 7.86 | 88   | 19787m   | 0.755 | ppbv   |        |
| 41) Tetrahydrofuran            | 6.07 | 42   | 32206m   | 0.464 | ppbv   |        |
| 42) Bromodichloromethane       | 7.77 | 83   | 105121m  | 0.486 | ppbv   |        |
| 43) Methyl Methacrylate        | 8.01 | 69   | 37333    | 0.376 | ppbv   | 81     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL052521\  
 Data File : VL037058.D  
 Acq On : 25 May 2021 13:22  
 Operator : SY/AP  
 Sample : M2262-15 0.45  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL-AIR-03-QT2-2021

Manual Integrations  
 APPROVED

MMDadoda  
 5/27/2021 10:31:29 AM

Quant Time: May 26 01:24:54 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL051821AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Tue May 18 2021  
 QLast Update : Tue May 18 12:00:15 2021  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.85  | 57   | 254278m  | 0.514 | ppbv   |          |
| 45) t-1,3-Dichloropropene     | 9.26  | 75   | 25333m   | 0.334 | ppbv   |          |
| 46) cis-1,3-Dichloropropene   | 8.69  | 75   | 38379    | 0.376 | ppbv   | 89       |
| 47) 1,1,2-Trichloroethane     | 9.46  | 97   | 62768    | 0.540 | ppbv   | 95       |
| 48) Dibromochloromethane      | 10.28 | 129  | 75536m   | 0.401 | ppbv   |          |
| 49) Bromoform                 | 13.01 | 173  | 51048m   | 0.328 | ppbv   |          |
| 50) 4-Methyl-2-Pentanone      | 8.76  | 43   | 88561m   | 0.440 | ppbv   |          |
| 51) 2-Hexanone                | 10.15 | 43   | 40646m   | 0.382 | ppbv   |          |
| 52) Tetrachloroethene         | 11.20 | 164  | 62585m   | 0.546 | ppbv   |          |
| 53) Toluene                   | 9.78  | 91   | 154079   | 0.449 | ppbv   | 98       |
| 54) 1,2-Dibromoethane         | 10.59 | 107  | 77307    | 0.468 | ppbv   | 97       |
| 56) 1,1,1,2-Tetrachloroethane | 12.10 | 131  | 67226    | 0.525 | ppbv # | 1        |
| 57) Chlorobenzene             | 12.13 | 112  | 140073   | 0.594 | ppbv   | 94       |
| 58) Ethyl Benzene             | 12.69 | 91   | 219278   | 0.511 | ppbv   | 96       |
| 59) m/p-Xylene                | 12.98 | 91   | 373723m  | 1.053 | ppbv   |          |
| 60) o-Xylene                  | 13.67 | 91   | 181075   | 0.535 | ppbv   | 98       |
| 61) Styrene                   | 13.51 | 104  | 76959    | 0.403 | ppbv # | 85       |
| 62) Isopropylbenzene          | 14.64 | 105  | 263890   | 0.542 | ppbv   | 98       |
| 63) 1,1,2,2-Tetrachloroethane | 13.66 | 83   | 127027   | 0.502 | ppbv   | 97       |
| 64) n-propylbenzene           | 15.54 | 120  | 61434m   | 0.489 | ppbv   |          |
| 65) tert-Butylbenzene         | 16.73 | 119  | 240463   | 0.548 | ppbv   | 95       |
| 66) Benzyl Chloride           | 16.97 | 91   | 8695m    | 0.357 | ppbv   |          |
| 67) sec-Butylbenzene          | 17.28 | 105  | 282767   | 0.472 | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 17.64 | 119  | 248334   | 0.482 | ppbv   | 96       |
| 70) n-Butylbenzene            | 18.54 | 91   | 228218   | 0.467 | ppbv   | 98       |
| 71) 2-Chlorotoluene           | 15.44 | 91   | 177876   | 0.506 | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 15.82 | 105  | 206569m  | 0.514 | ppbv   |          |
| 73) 1,3,5-Trimethylbenzene    | 15.98 | 105  | 170288   | 0.451 | ppbv   | 91       |
| 74) 1,2,4-Trimethylbenzene    | 16.74 | 105  | 203581m  | 0.522 | ppbv   |          |
| 75) 1,3-Dichlorobenzene       | 16.98 | 146  | 117956   | 0.495 | ppbv   | 90       |
| 76) 1,4-Dichlorobenzene       | 17.12 | 146  | 115686   | 0.480 | ppbv   | 91       |
| 77) 1,2-Dichlorobenzene       | 17.80 | 146  | 113744   | 0.476 | ppbv   | 90       |
| 78) Hexachloro-1,3-Butadiene  | 23.35 | 225  | 107427m  | 0.560 | ppbv   |          |
| 79) Naphthalene               | 22.18 | 128  | 88121m   | 0.288 | ppbv   |          |
| 80) Naphthalene,2-methyl-     | 25.10 | 142  | 12231m   | 0.184 | ppbv   |          |
| 81) 1,2,4-Trichlorobenzene    | 21.91 | 180  | 68752m   | 0.368 | ppbv   |          |

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

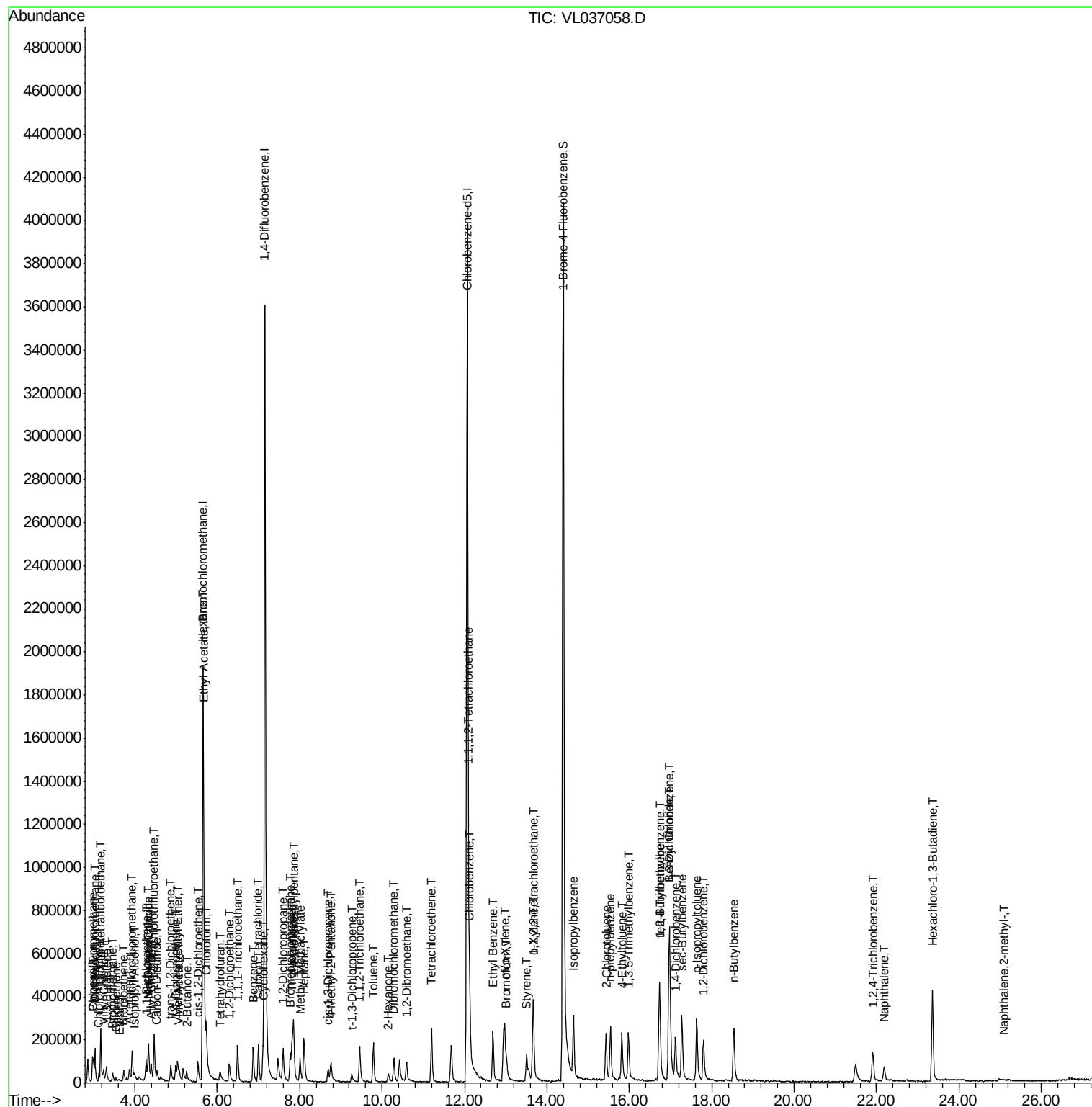
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_L\DATA\VL052521\  
Data File : VL037058.D  
Acq On : 25 May 2021 13:22  
Operator : SY/AP  
Sample : M2262-15 0.45  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

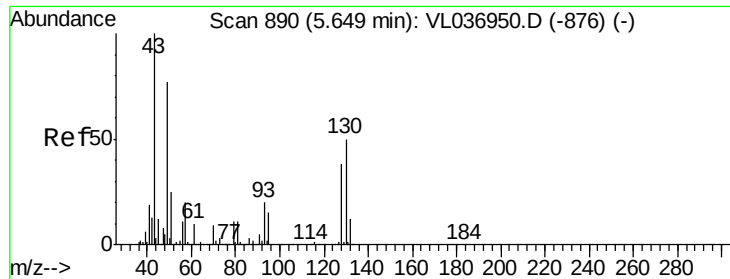
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT2-2021

Manual Integrations  
APPROVED

MMDadoda  
5/27/2021 10:31:29 AM

Quant Time: May 26 01:24:54 2021  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_L\METHODS\VL051821AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L  
QLast Update : Tue May 18 12:00:15 2021  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.00 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-03-QT2-2021

Tgt Ion: 49 Resp: 1113795

Ion Ratio Lower Upper

49 100

128 57.5 26.9 80.7

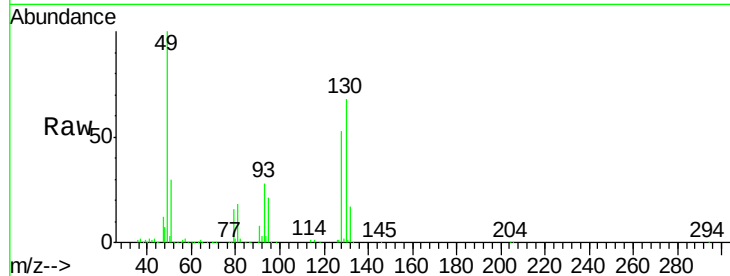
130 75.0 33.8 101.4

Manual Integrations

APPROVED

MMDadoda

5/27/2021 10:31:29 AM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.65

600000

500000

400000

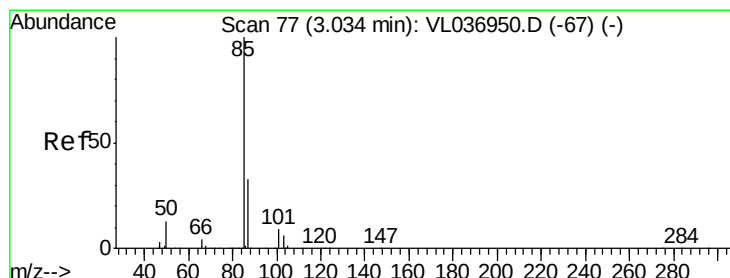
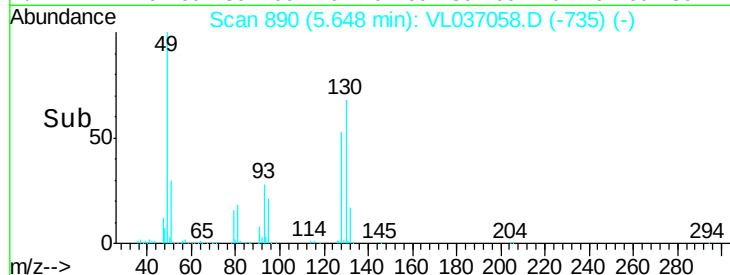
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.654 ppbv

RT: 3.02 min Scan# 74

Delta R.T. -0.01 min

Lab File: VL037058.D

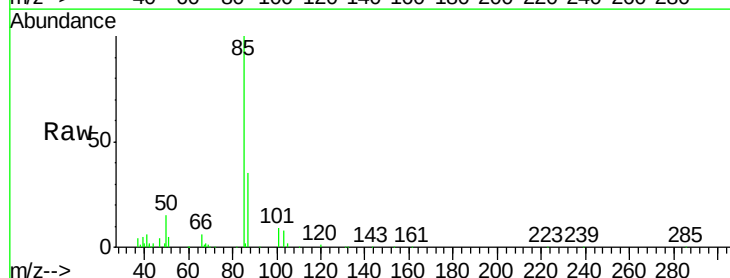
Acq: 25 May 2021 13:22

Tgt Ion: 85 Resp: 123641

Ion Ratio Lower Upper

85 100

87 35.0 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.02

80000

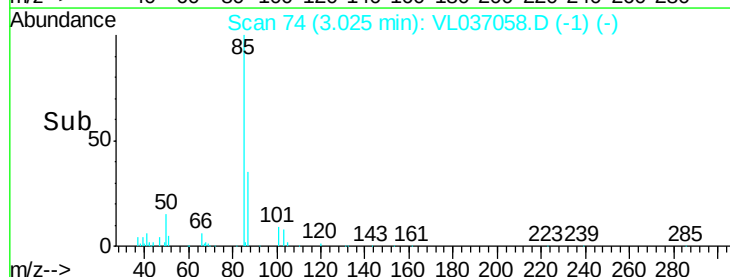
60000

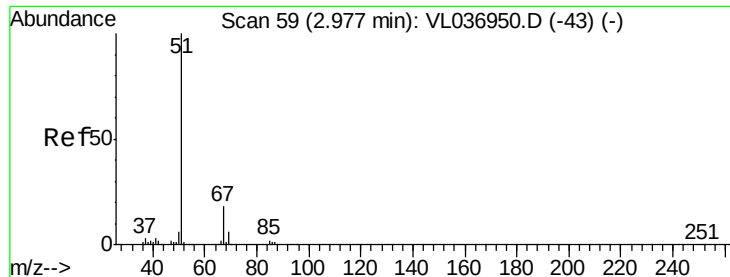
40000

20000

0

Time-->





#3

Chlorodifluoromethane

Concen: 0.632 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.01 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-03-QT2-2021

Tgt Ion: 51 Resp: 129020

Ion Ratio Lower Upper

51 100

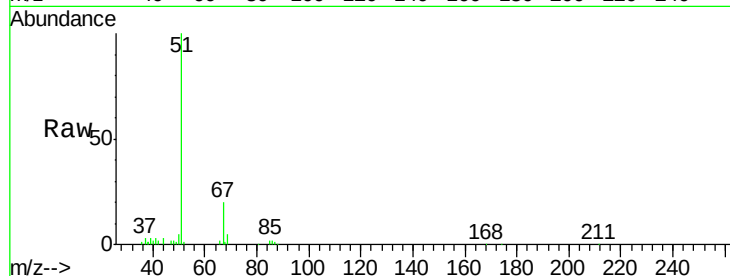
67 20.9 14.6 21.8

Manual Integrations

APPROVED

MMDadoda

5/27/2021 10:31:29 AM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

2.97

80000

60000

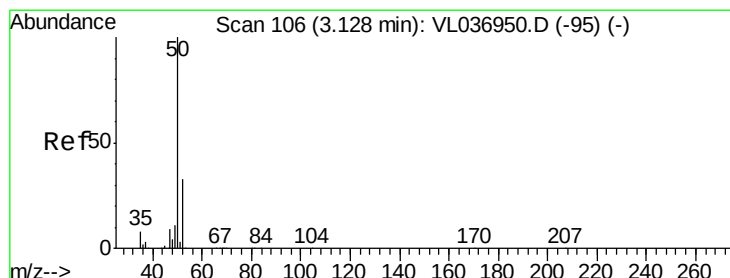
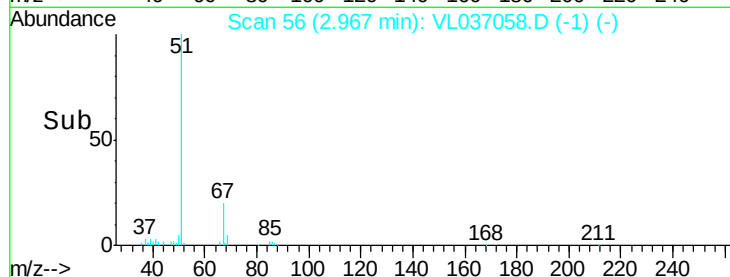
40000

20000

0

Time-->

2.90 3.00 3.10



#4

Chloromethane

Concen: 0.548 ppbv m

RT: 3.12 min Scan# 103

Delta R.T. -0.01 min

Lab File: VL037058.D

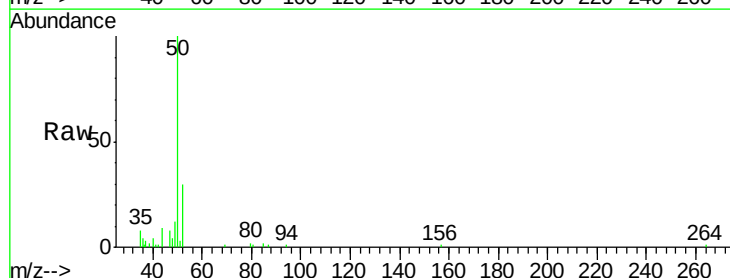
Acq: 25 May 2021 13:22

Tgt Ion: 50 Resp: 38058

Ion Ratio Lower Upper

50 100

52 30.4 26.1 39.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.12

25000

20000

15000

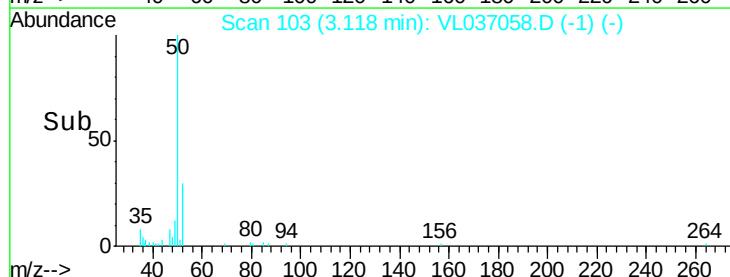
10000

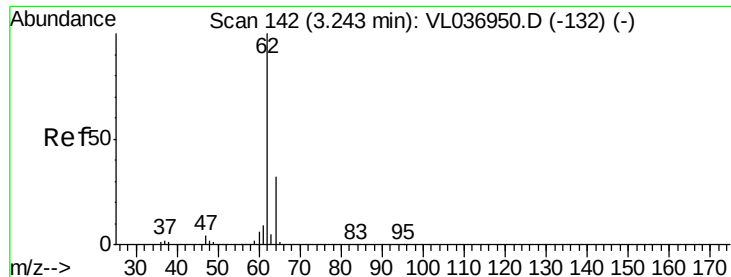
5000

0

Time-->

3.08 3.10 3.12 3.14 3.16





#5

Vinyl Chloride

Concen: 0.551 ppbv

RT: 3.24 min Scan# 141

Delta R.T. -0.00 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-03-QT2-2021

Tgt Ion: 62 Resp: 41808

Ion Ratio Lower Upper

62 100

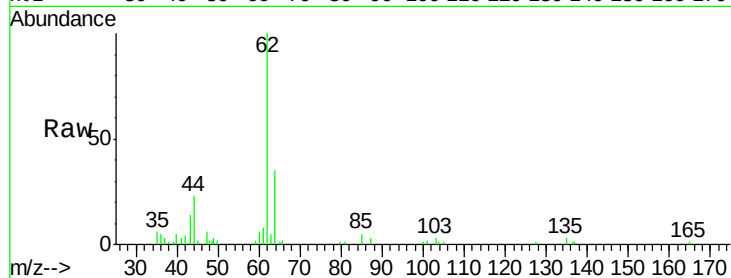
64 34.5 25.9 38.9

Manual Integrations

APPROVED

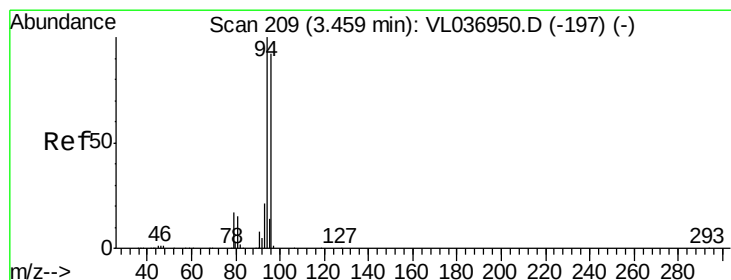
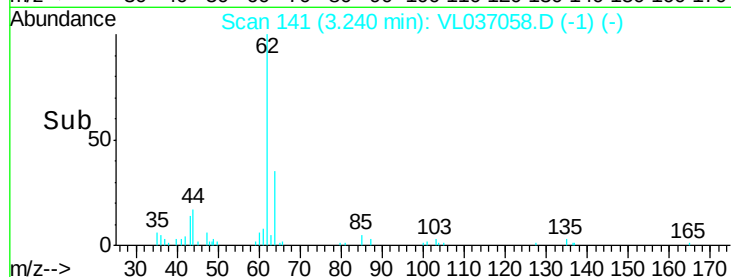
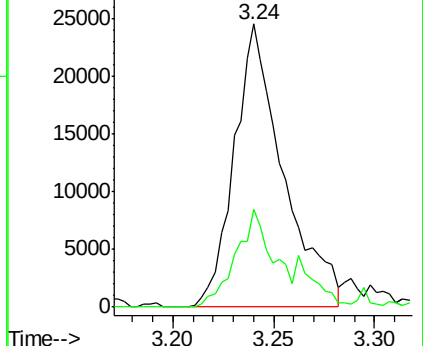
MMDadoda

5/27/2021 10:31:29 AM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.635 ppbv m

RT: 3.46 min Scan# 209

Delta R.T. -0.00 min

Lab File: VL037058.D

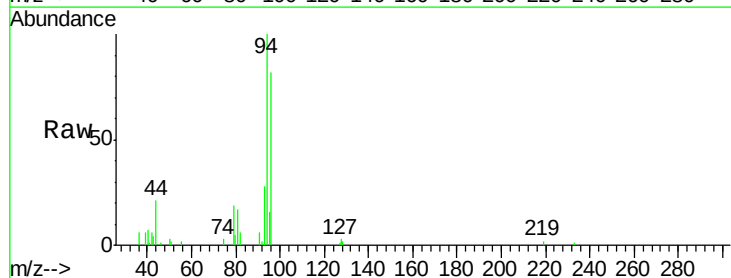
Acq: 25 May 2021 13:22

Tgt Ion: 94 Resp: 25385

Ion Ratio Lower Upper

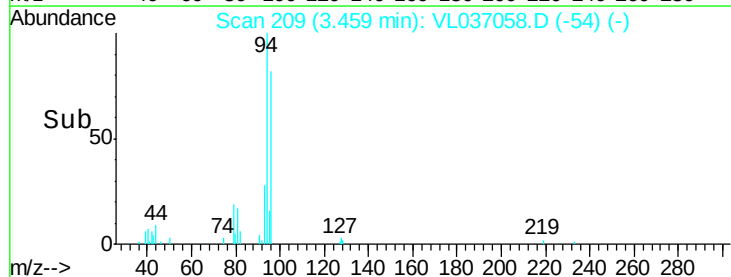
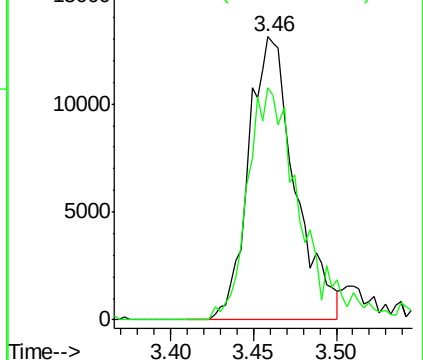
94 100

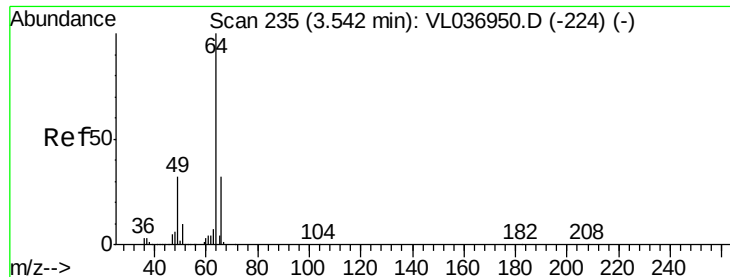
96 82.0 74.0 111.0



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.617 ppbv m

RT: 3.55 min Scan# 237

Delta R.T. 0.01 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-03-QT2-2021

Tgt Ion: 64 Resp: 15205

Ion Ratio Lower Upper

64 100

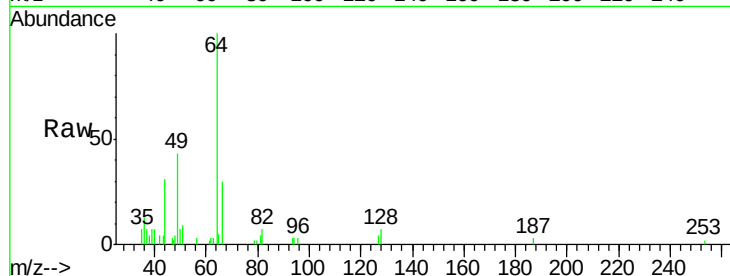
66 29.5 25.4 38.2

Manual Integrations

APPROVED

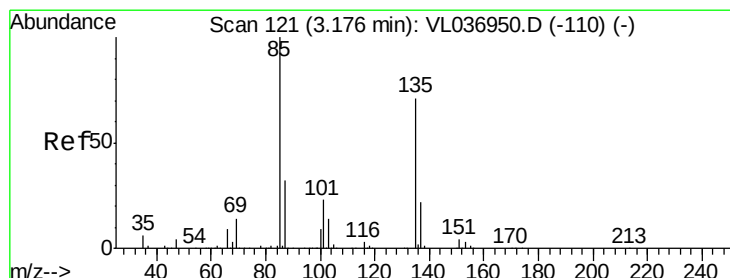
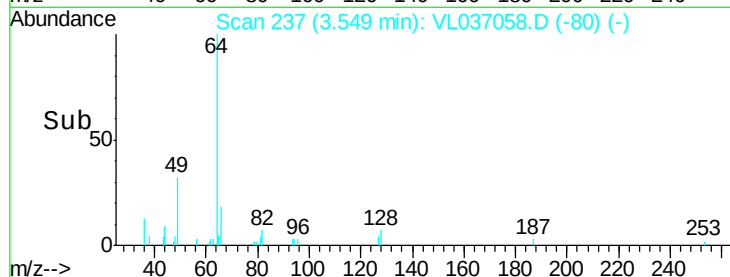
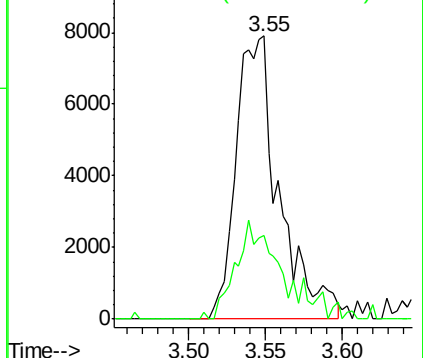
MMDadoda

5/27/2021 10:31:29 AM



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.624 ppbv

RT: 3.17 min Scan# 118

Delta R.T. -0.01 min

Lab File: VL037058.D

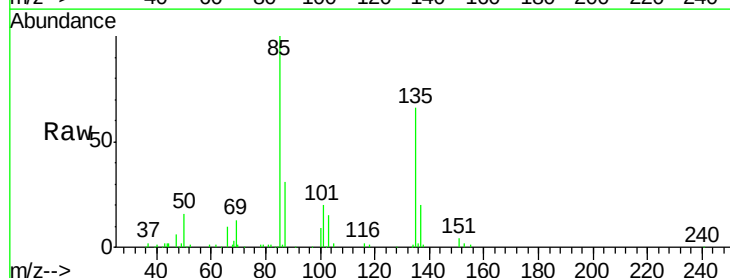
Acq: 25 May 2021 13:22

Tgt Ion: 85 Resp: 110645

Ion Ratio Lower Upper

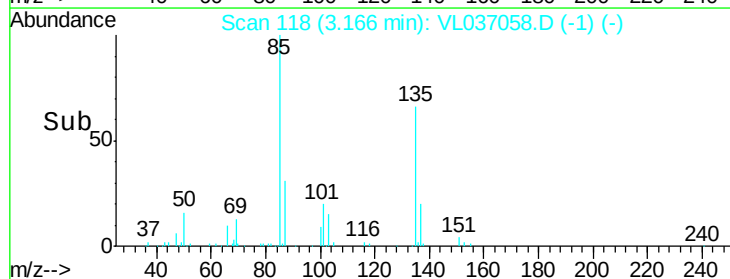
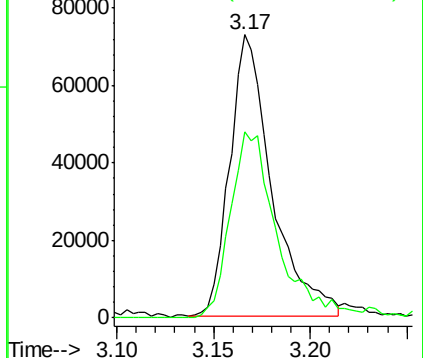
85 100

135 75.6 57.7 86.5

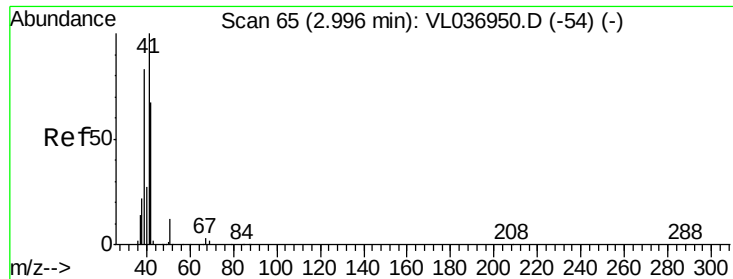


Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V







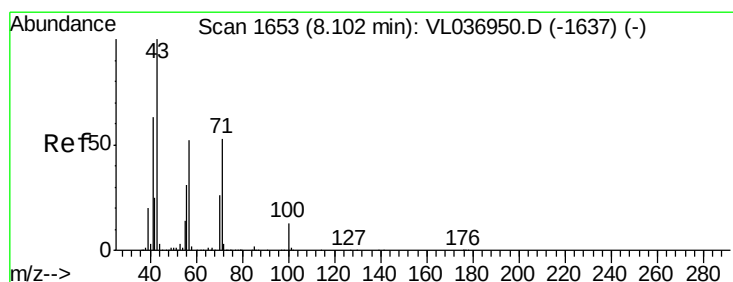
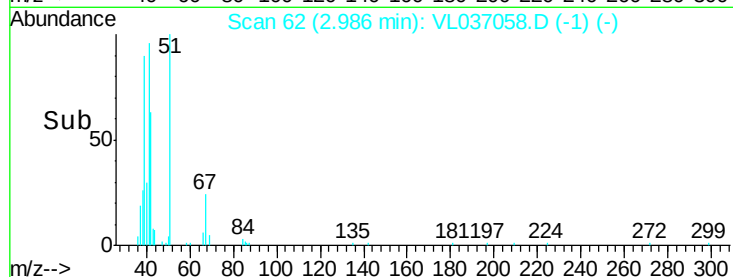
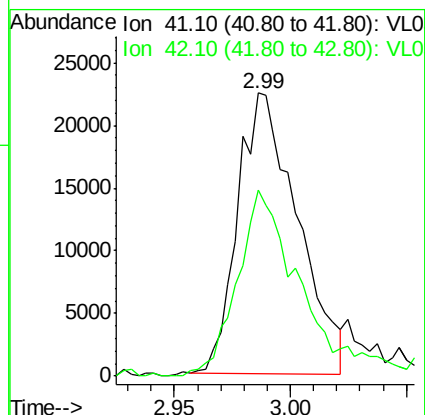
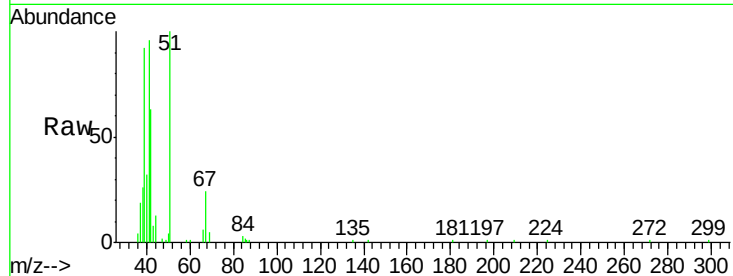
#9  
 Propene  
 Concen: 0.552 ppbv  
 RT: 2.99 min Scan# 62  
 Delta R.T. -0.01 min  
 Lab File: VL037058.D  
 Acq: 25 May 2021 13:22

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL-AIR-03-QT2-2021

Tgt Ion: 41 Resp: 40297  
 Ion Ratio Lower Upper  
 41 100  
 42 73.0 53.9 80.9

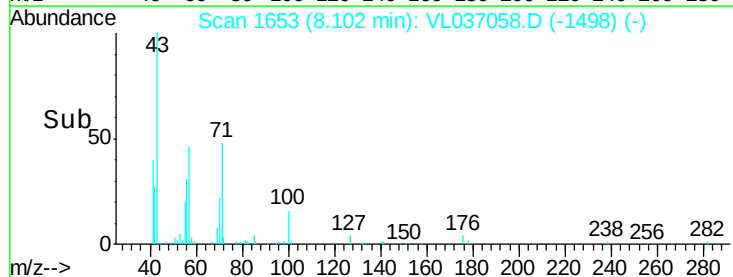
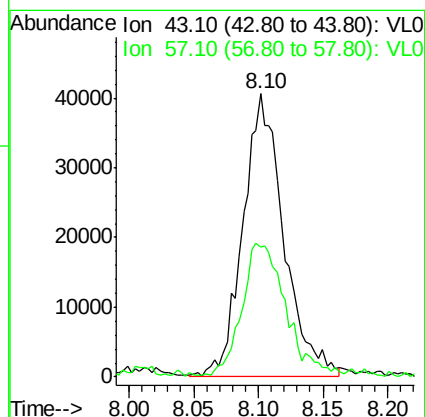
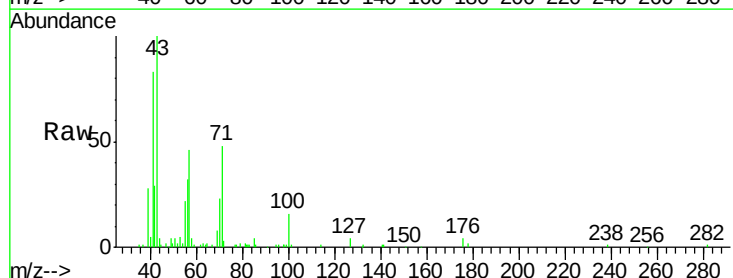
Manual Integrations  
 APPROVED

MMDadoda  
 5/27/2021 10:31:29 AM

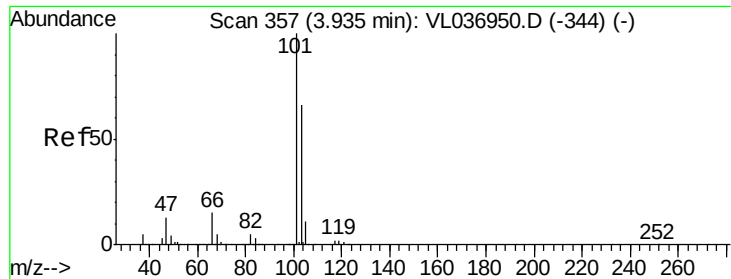


#10  
 Heptane  
 Concen: 0.488 ppbv m  
 RT: 8.10 min Scan# 1653  
 Delta R.T. -0.00 min  
 Lab File: VL037058.D  
 Acq: 25 May 2021 13:22

Tgt Ion: 43 Resp: 88783  
 Ion Ratio Lower Upper  
 43 100  
 57 53.1 41.0 61.6







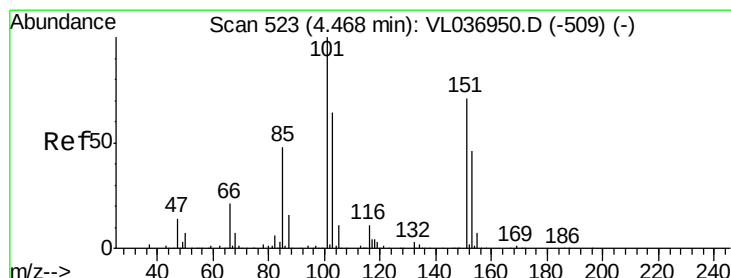
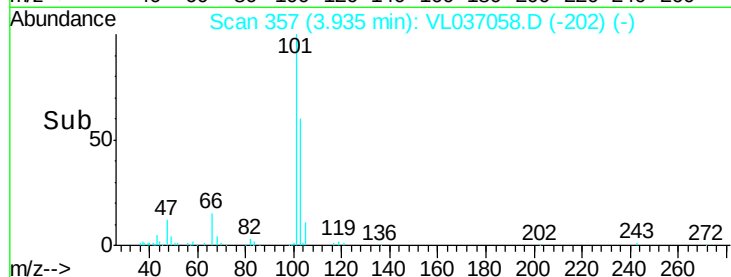
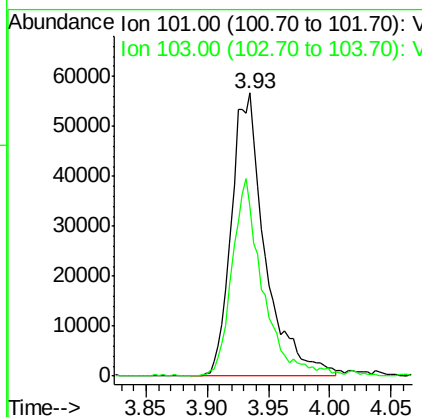
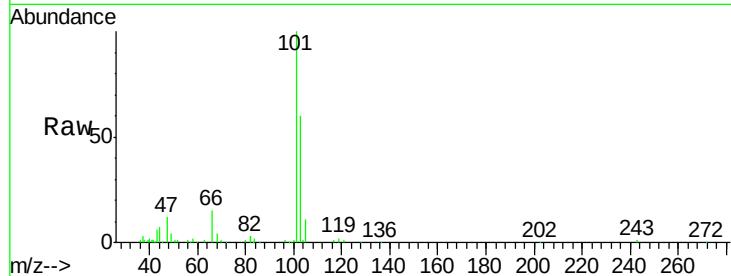
#11  
 Trichlorofluoromethane  
 Concen: 0.622 ppbv  
 RT: 3.93 min Scan# 357  
 Delta R.T. -0.00 min  
 Lab File: VL037058.D  
 Acq: 25 May 2021 13:22

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL-AIR-03-QT2-2021

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 101     | 100   | 108828 |       |       |
| 103     | 59.9  | 52.6   | 79.0  |       |

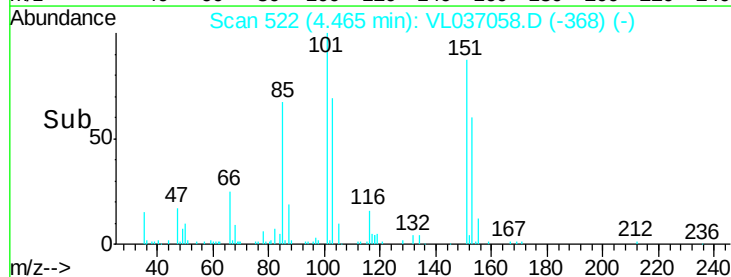
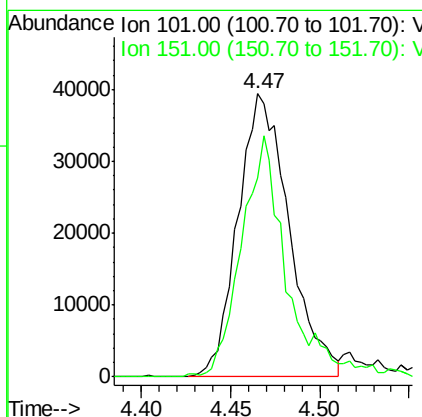
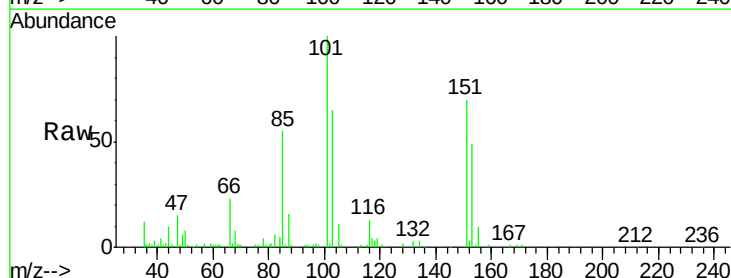
Manual Integrations  
 APPROVED

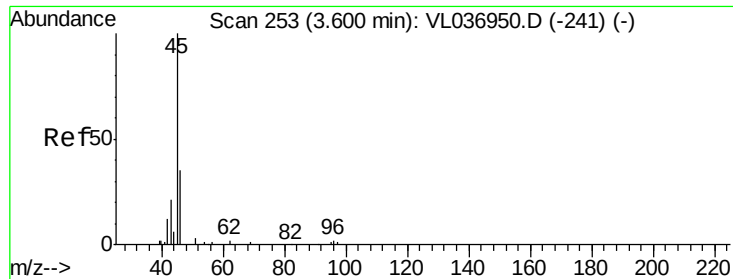
MMDadoda  
 5/27/2021 10:31:29 AM



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 0.634 ppbv  
 RT: 4.47 min Scan# 522  
 Delta R.T. -0.00 min  
 Lab File: VL037058.D  
 Acq: 25 May 2021 13:22

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 101     | 100   | 78999 |       |       |
| 151     | 76.6  | 57.7  | 86.5  |       |





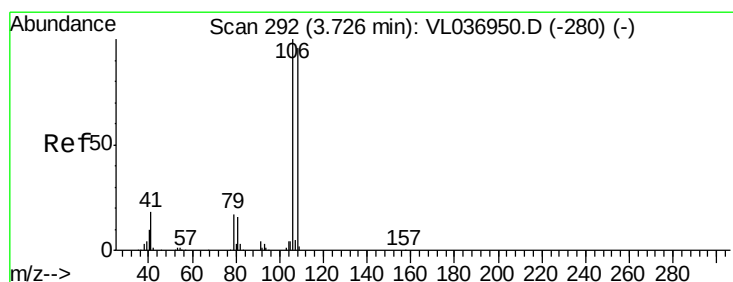
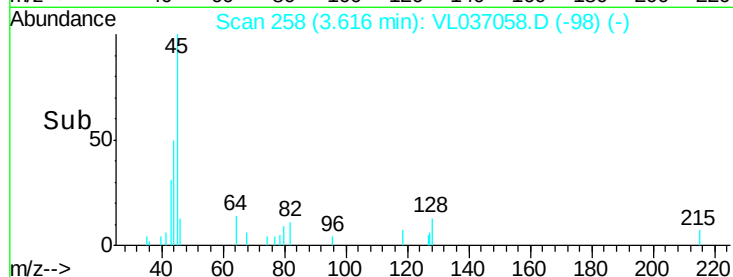
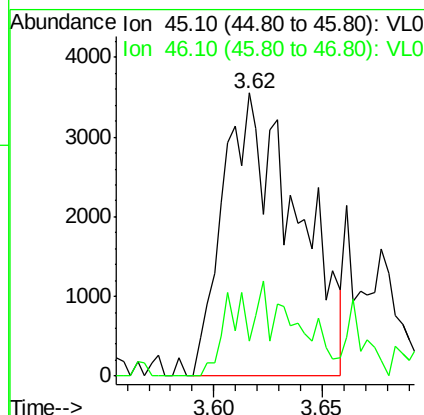
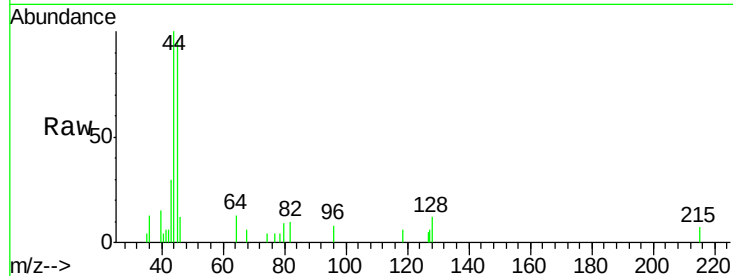
#13  
Ethanol  
Concen: 0.866 ppbv m  
RT: 3.62 min Scan# 258  
Delta R.T. 0.02 min  
Lab File: VL037058.D  
Acq: 25 May 2021 13:22

Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT2-2021

Tgt Ion: 45 Resp: 8440  
Ion Ratio Lower Upper  
45 100  
46 0.0 16.3 65.3#

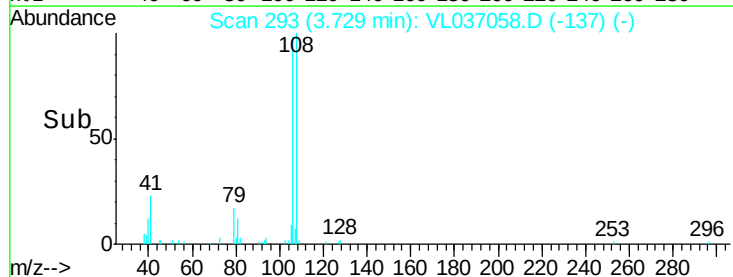
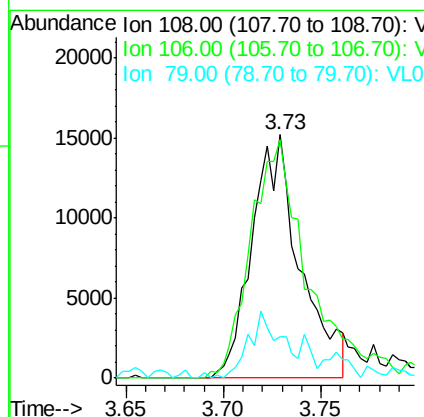
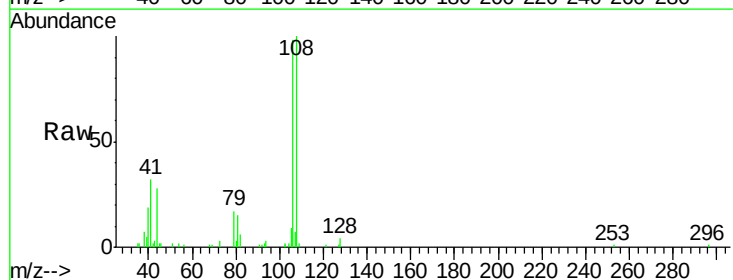
Manual Integrations  
APPROVED

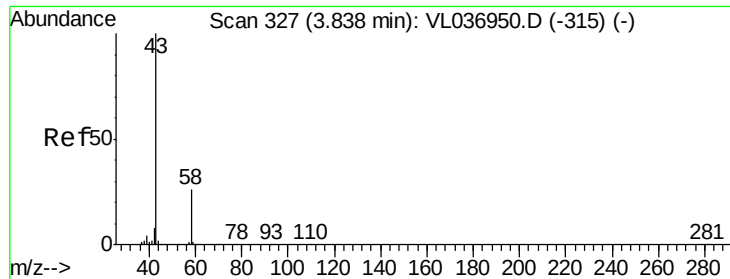
MMDadoda  
5/27/2021 10:31:29 AM



#14  
Bromoethene  
Concen: 0.475 ppbv m  
RT: 3.73 min Scan# 293  
Delta R.T. 0.00 min  
Lab File: VL037058.D  
Acq: 25 May 2021 13:22

Tgt Ion: 108 Resp: 26049  
Ion Ratio Lower Upper  
108 100  
106 120.1 86.5 129.7  
79 0.0 15.0 22.4#





#15

Acetone

Concen: 0.613 ppbv

RT: 3.86 min Scan# 335

Delta R.T. 0.03 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-03-QT2-2021

Tgt Ion: 43 Resp: 69919

Ion Ratio Lower Upper

43 100

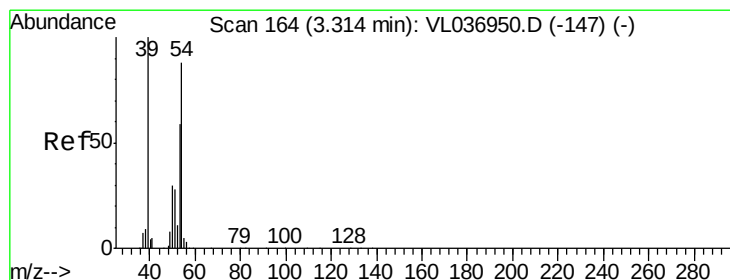
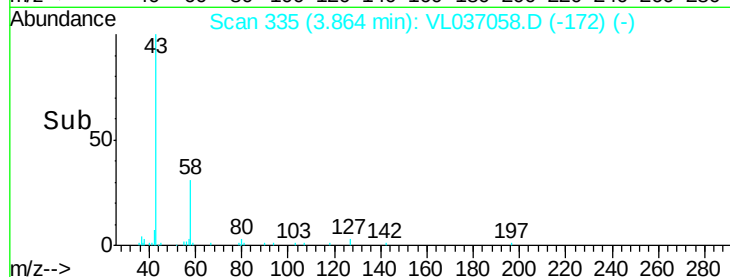
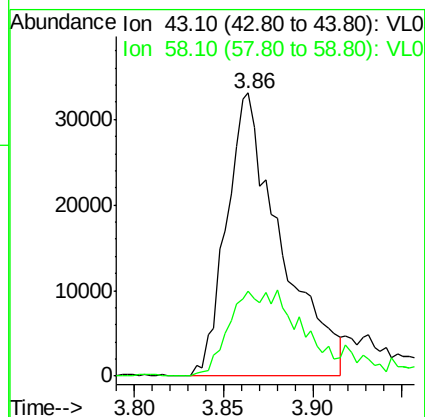
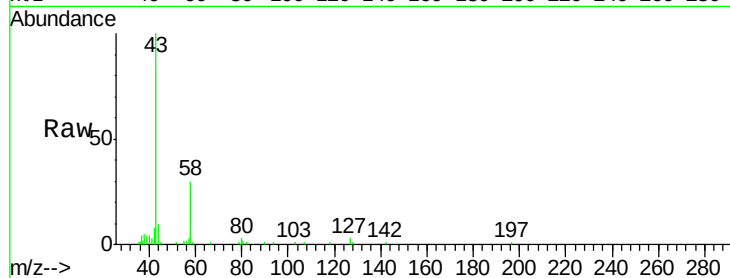
58 49.1 24.0 36.0#

Manual Integrations

APPROVED

MMDadoda

5/27/2021 10:31:29 AM



#16

1,3-Butadiene

Concen: 0.561 ppbv m

RT: 3.31 min Scan# 162

Delta R.T. -0.01 min

Lab File: VL037058.D

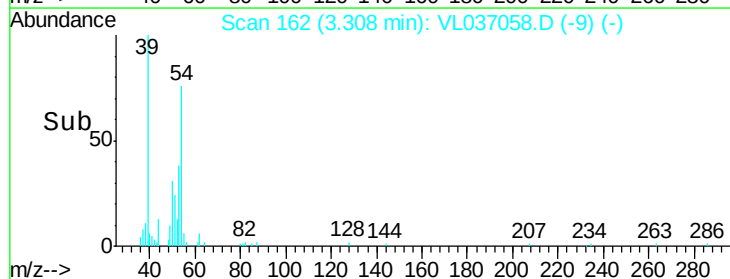
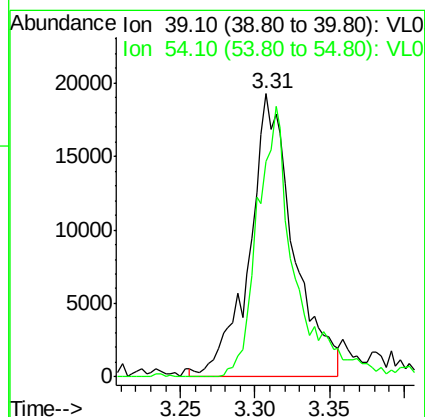
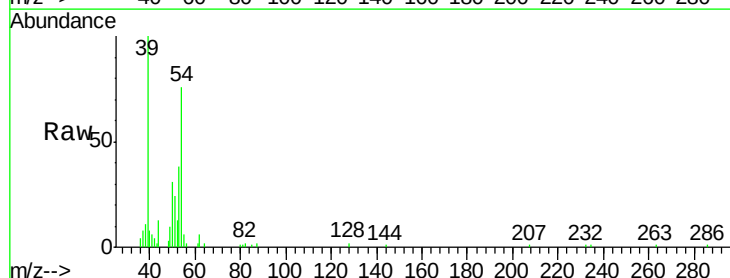
Acq: 25 May 2021 13:22

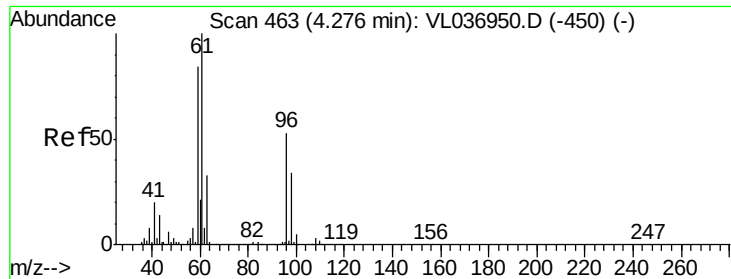
Tgt Ion: 39 Resp: 39733

Ion Ratio Lower Upper

39 100

54 83.7 63.2 94.8





#17

tert-Butyl alcohol

Concen: 0.583 ppbv m

RT: 4.32 min Scan# 478

Delta R.T. 0.05 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-03-QT2-2021

Tgt Ion: 59 Resp: 60927

Ion Ratio Lower Upper

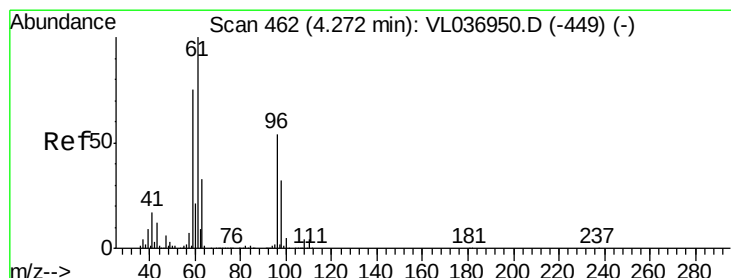
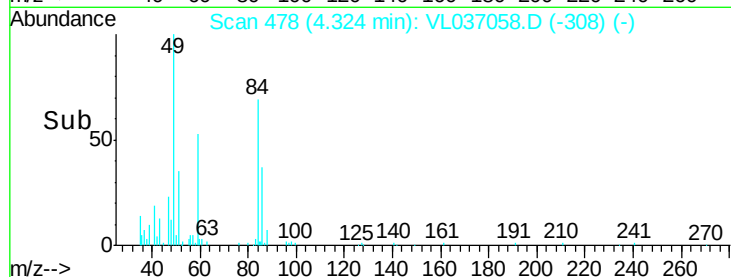
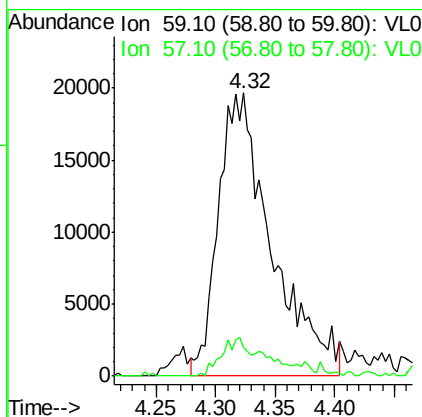
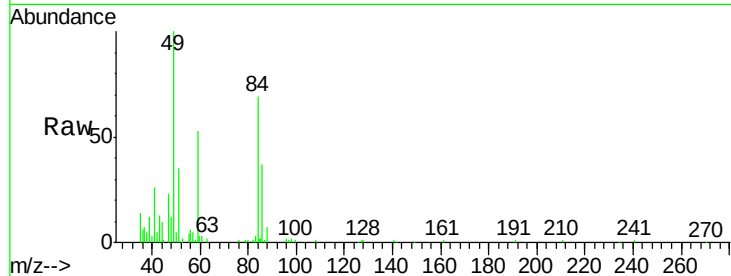
59 100

57 0.0 8.3 12.5#

Manual Integrations  
APPROVED

MMDadoda

5/27/2021 10:31:29 AM



#18

1,1-Dichloroethene

Concen: 0.581 ppbv m

RT: 4.28 min Scan# 464

Delta R.T. 0.01 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

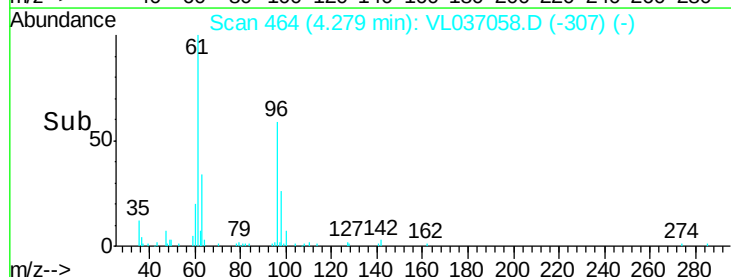
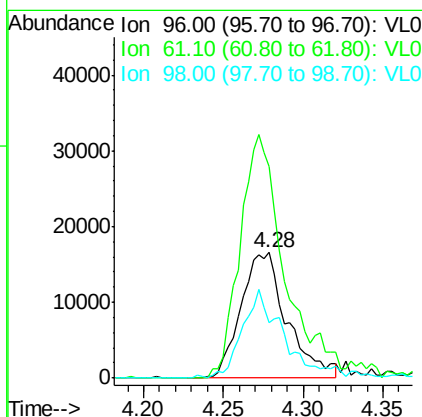
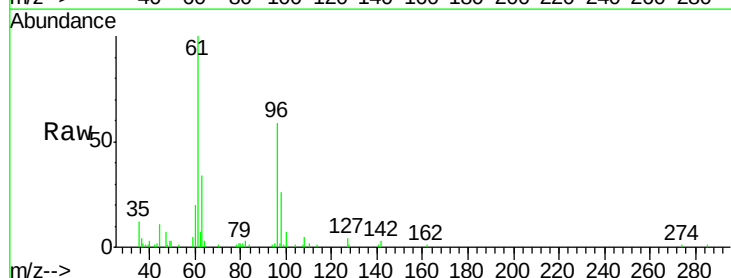
Tgt Ion: 96 Resp: 33484

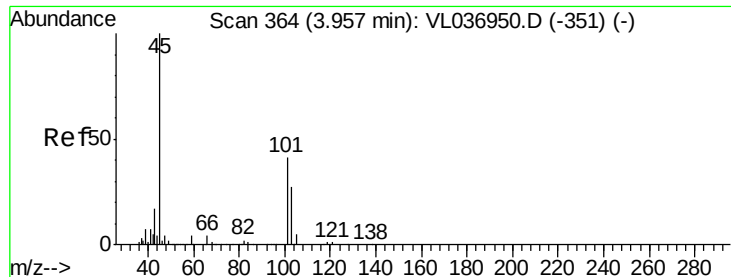
Ion Ratio Lower Upper

96 100

61 168.2 148.2 222.4

98 43.7 47.8 71.6#





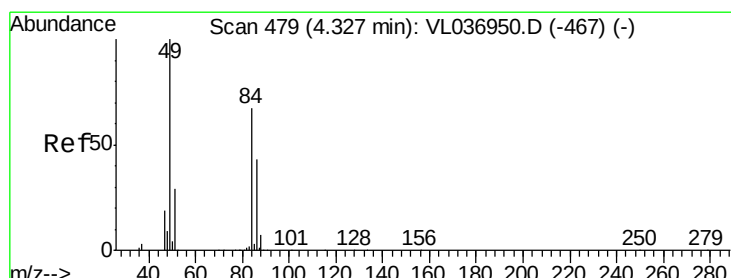
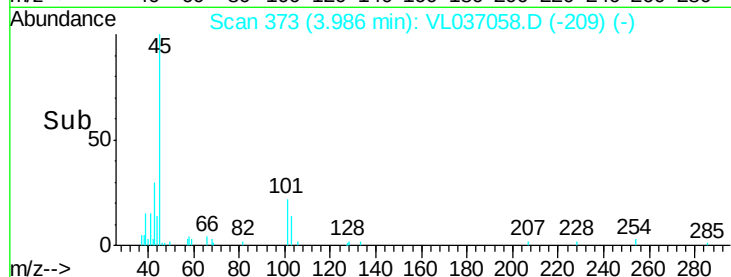
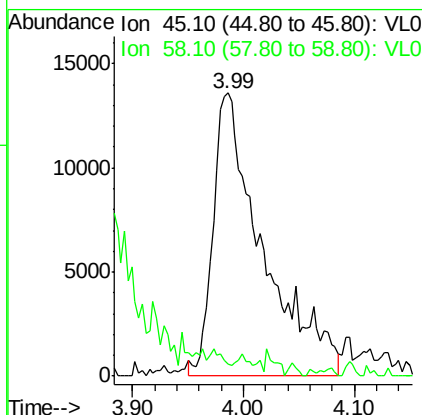
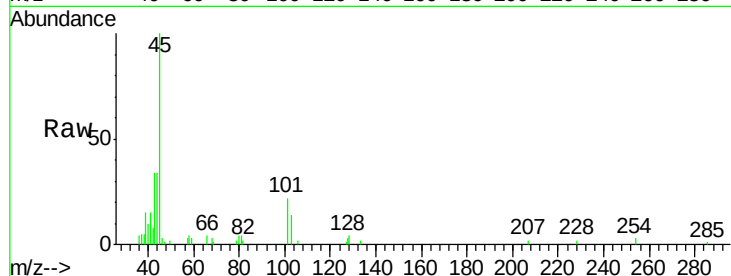
#19  
Isopropyl Alcohol  
Concen: 0.687 ppbv m  
RT: 3.99 min Scan# 373  
Delta R.T. 0.03 min  
Lab File: VL037058.D  
Acq: 25 May 2021 13:22

Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT2-2021

Tgt Ion: 45 Resp: 42130  
Ion Ratio Lower Upper  
45 100  
58 9.0 37.2 55.8#

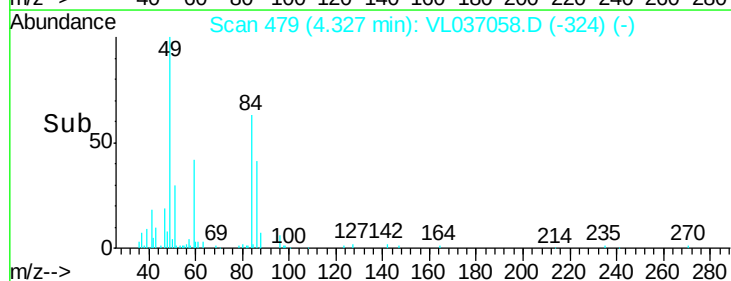
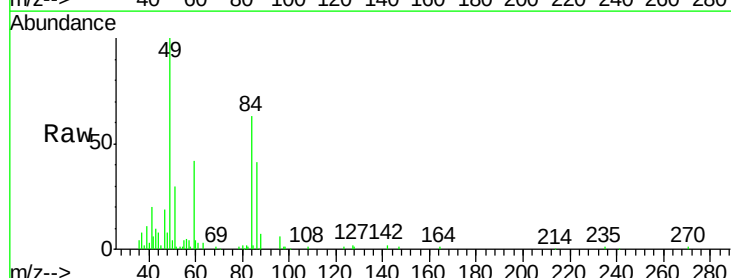
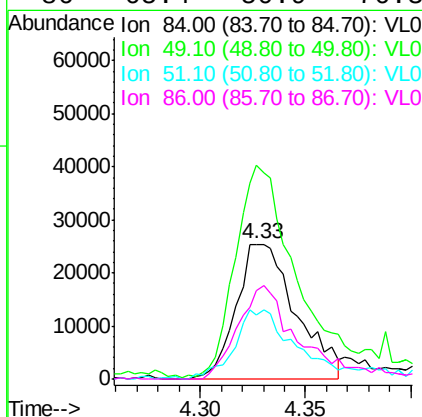
Manual Integrations  
APPROVED

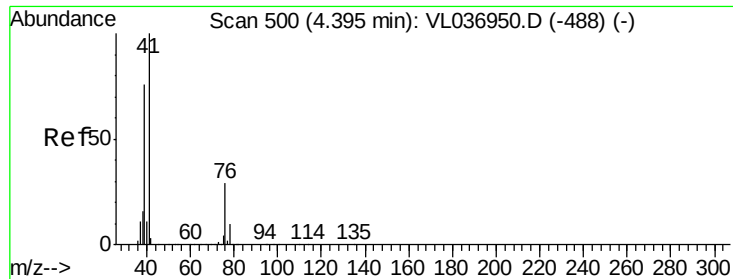
MMDadoda  
5/27/2021 10:31:29 AM



#20  
Methylene Chloride  
Concen: 0.817 ppbv  
RT: 4.33 min Scan# 479  
Delta R.T. -0.00 min  
Lab File: VL037058.D  
Acq: 25 May 2021 13:22

Tgt Ion: 84 Resp: 49991  
Ion Ratio Lower Upper  
84 100  
49 155.4 119.8 179.6  
51 47.6 35.1 52.7  
86 65.4 50.9 76.3





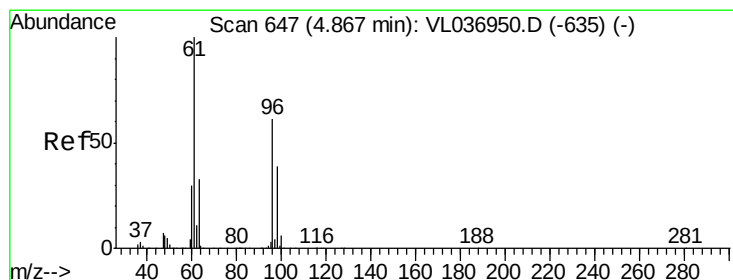
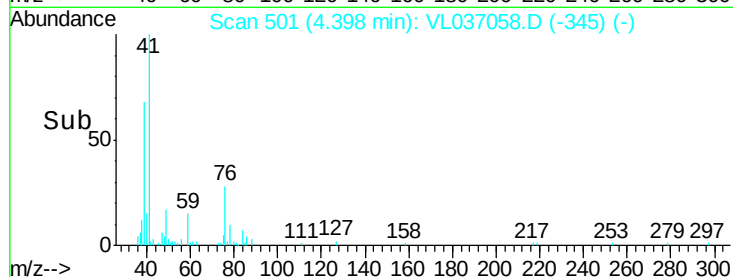
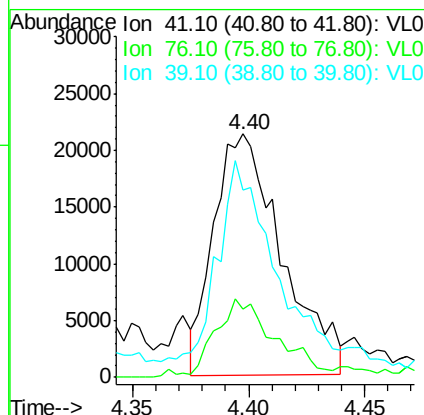
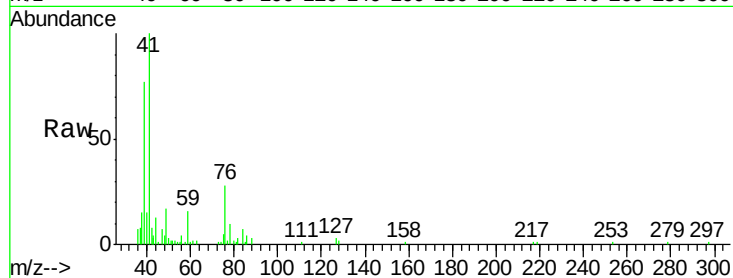
#21  
 Allyl Chloride  
 Concen: 0.505 ppbv  
 RT: 4.40 min Scan# 501  
 Delta R.T. 0.00 min  
 Lab File: VL037058.D  
 Acq: 25 May 2021 13:22

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL-AIR-03-QT2-2021

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 76      | 32.6  | 24.9  | 37.3  |
| 39      | 80.3  | 63.7  | 95.5  |

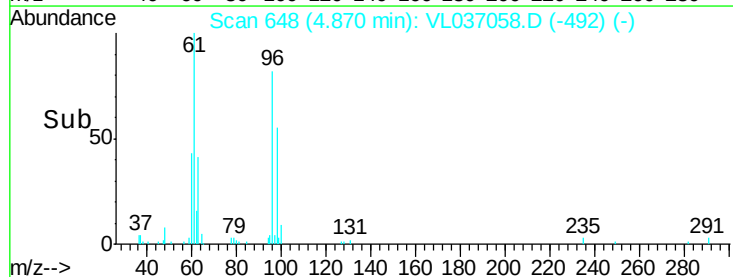
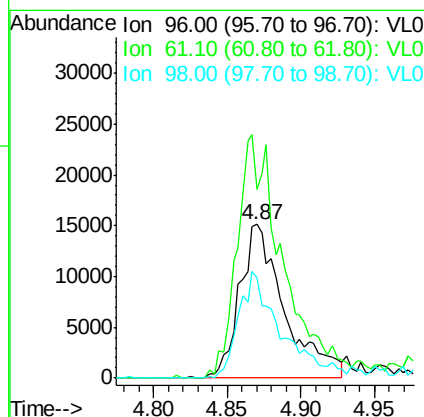
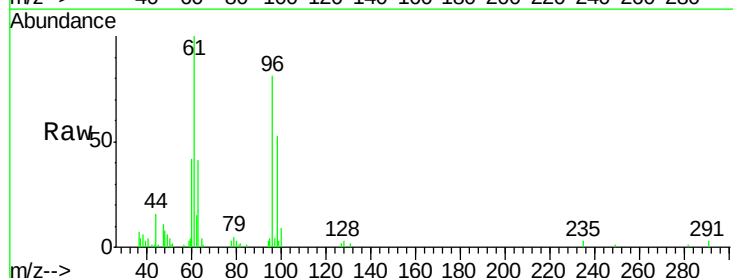
Manual Integrations  
 APPROVED

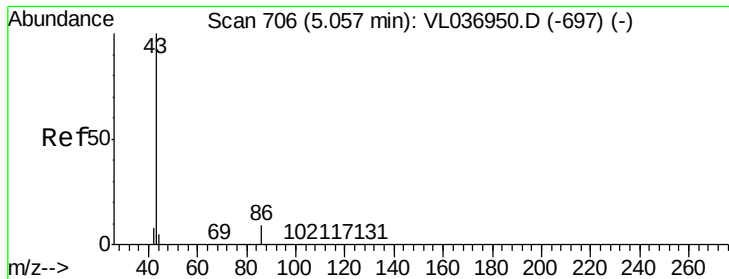
MMDadoda  
 5/27/2021 10:31:29 AM



#22  
 trans-1,2-Dichloroethene  
 Concen: 0.581 ppbv m  
 RT: 4.87 min Scan# 648  
 Delta R.T. 0.00 min  
 Lab File: VL037058.D  
 Acq: 25 May 2021 13:22

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 96      | 100   |       |        |
| 61      | 123.0 | 130.6 | 196.0# |
| 98      | 65.1  | 50.8  | 76.2   |





#23

Vinyl Acetate

Concen: 0.327 ppbv

RT: 5.07 min Scan# 711

Delta R.T. 0.02 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

Instrument :

MSVOA\_L

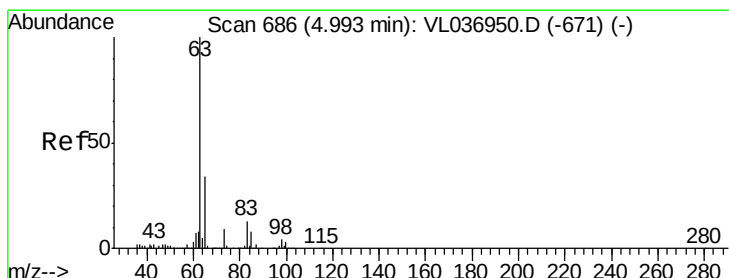
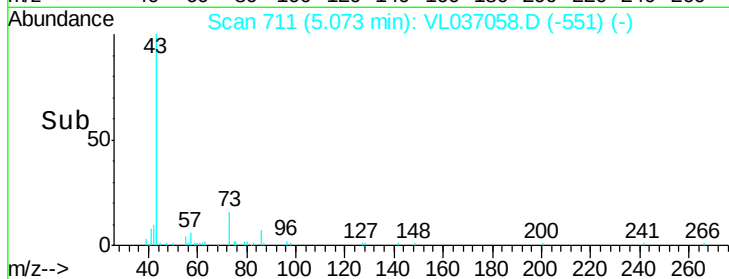
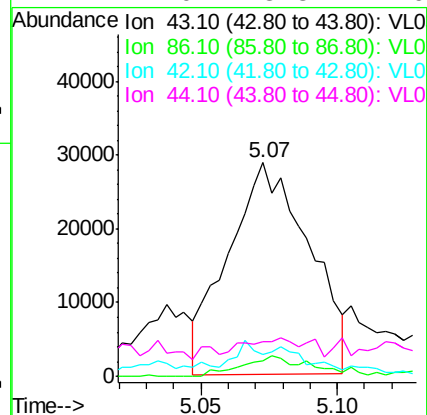
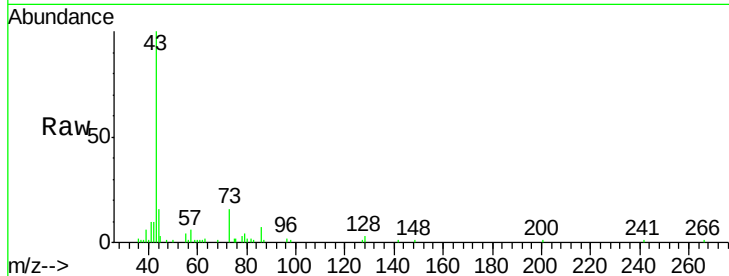
ClientSampleId :

MDL-AIR-03-QT2-2021

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 43      | 100   | 59151 |       |       |
| 86      | 10.1  | 5.8   | 8.8#  |       |
| 42      | 9.8   | 7.4   | 11.2  |       |
| 44      | 11.0  | 3.3   | 4.9#  |       |

Manual Integrations  
APPROVED

MMDadoda  
5/27/2021 10:31:29 AM



#24

1,1-Dichloroethane

Concen: 0.496 ppbv

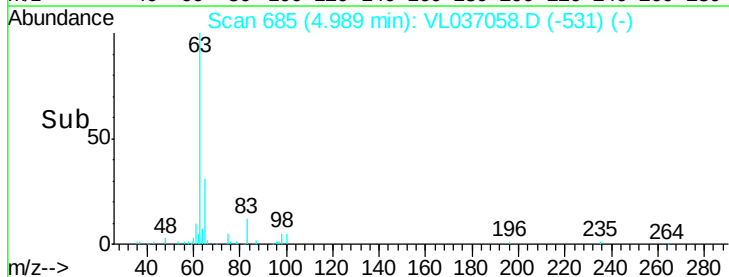
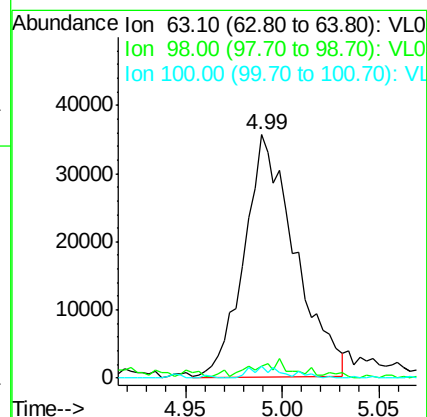
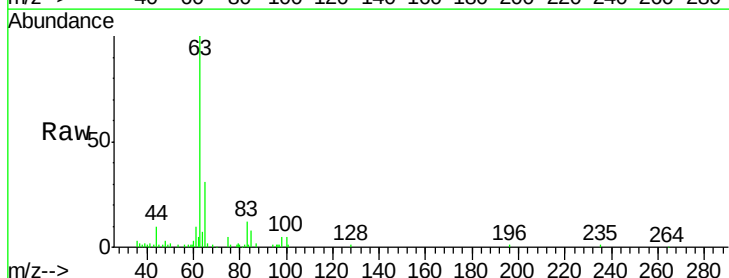
RT: 4.99 min Scan# 685

Delta R.T. -0.00 min

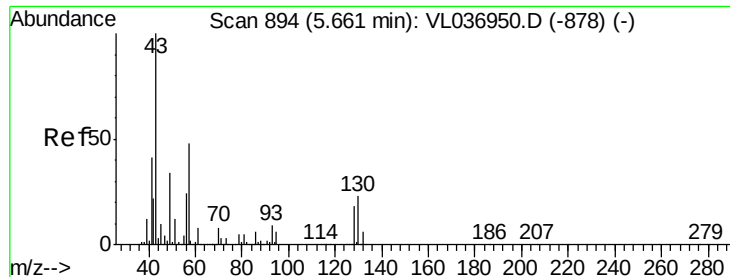
Lab File: VL037058.D

Acq: 25 May 2021 13:22

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 63      | 100   | 64620 |       |       |
| 98      | 2.7   | 2.3   | 6.9   |       |
| 100     | 4.8   | 1.4   | 4.0#  |       |







#25

Ethyl Acetate

Concen: 0.492 ppbv

RT: 5.67 min Scan# 897

Delta R.T. 0.01 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

Instrument :

MSVOA\_L

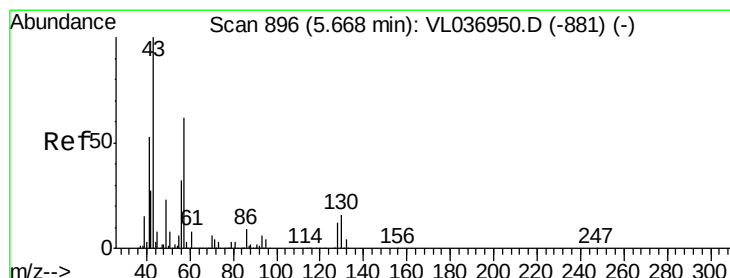
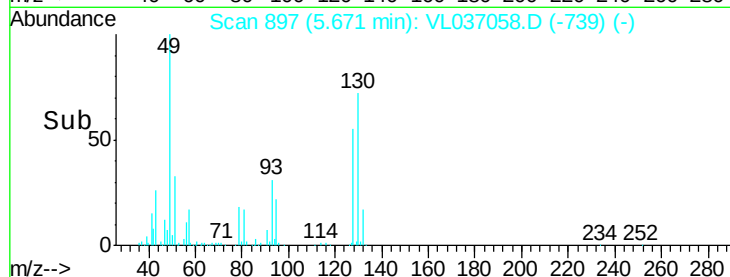
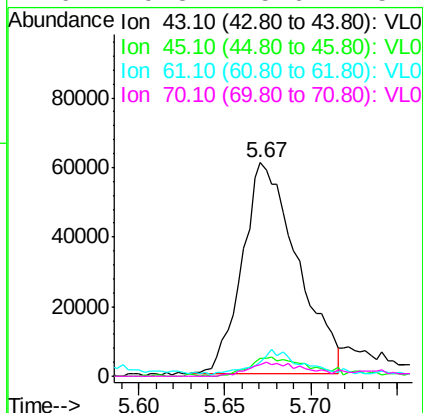
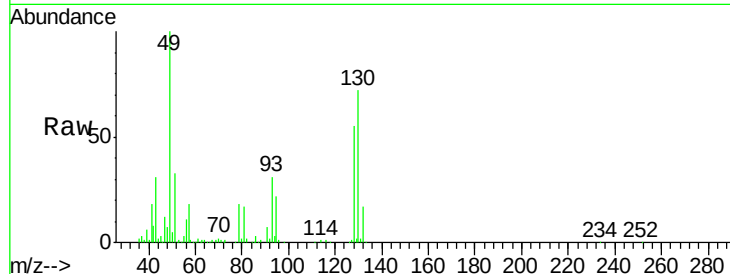
ClientSampleId :

MDL-AIR-03-QT2-2021

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 45      | 9.8   | 7.8   | 11.8  |
| 61      | 10.9  | 7.8   | 11.8  |
| 70      | 9.3   | 5.6   | 8.4   |

Manual Integrations  
APPROVED

MMDadoda  
5/27/2021 10:31:29 AM



#26

Hexane

Concen: 0.545 ppbv

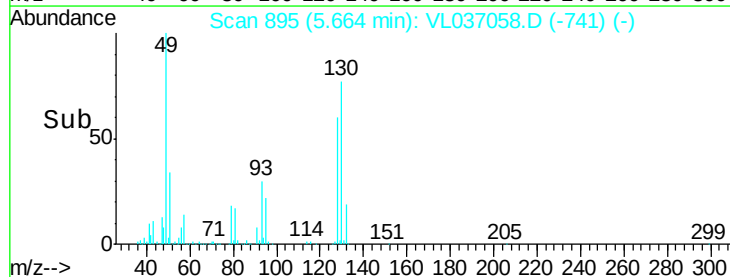
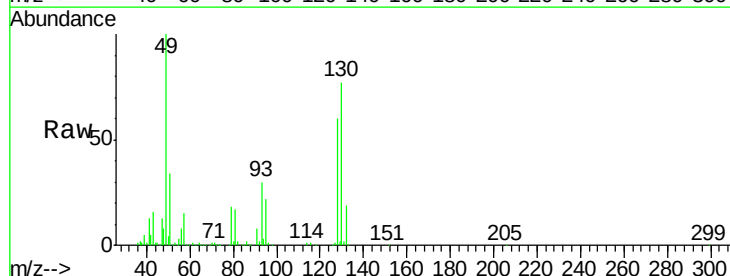
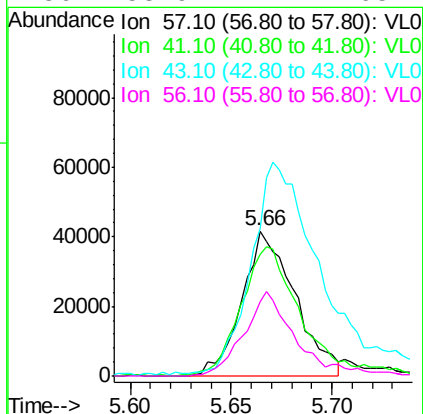
RT: 5.66 min Scan# 895

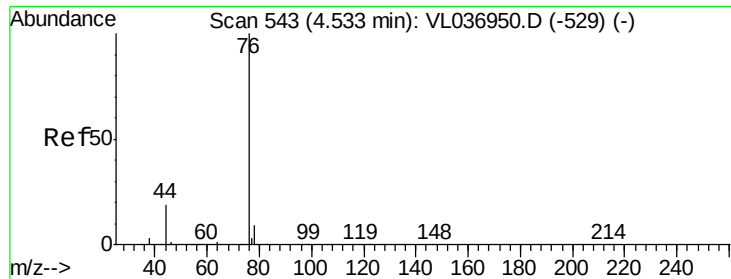
Delta R.T. -0.00 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 57      | 100   |       |       |
| 41      | 105.4 | 70.5  | 105.7 |
| 43      | 214.1 | 165.8 | 248.8 |
| 56      | 58.9  | 42.2  | 63.4  |





#27

Carbon Disulfide

Concen: 0.371 ppbv

RT: 4.53 min Scan# 543

Delta R.T. -0.00 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

Instrument :

MSVOA\_L

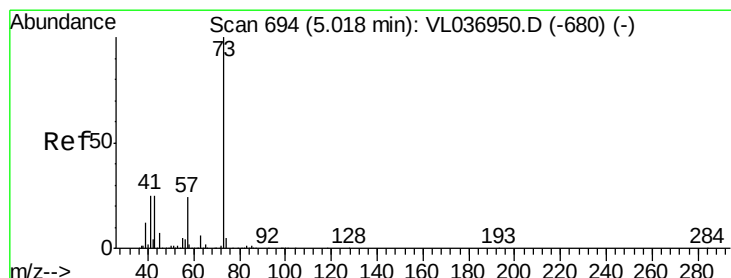
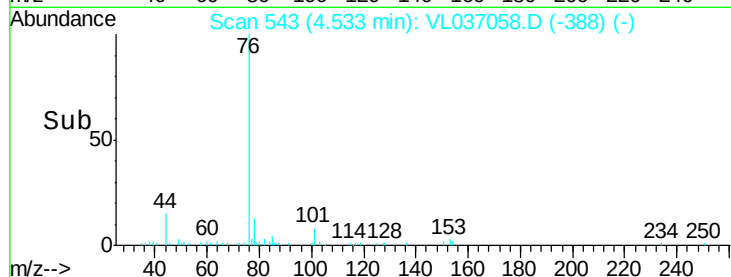
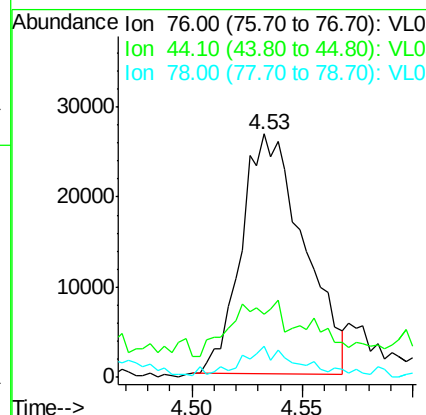
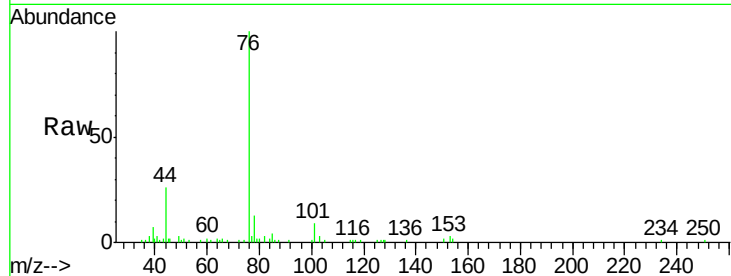
ClientSampleId :

MDL-AIR-03-QT2-2021

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 76    | Resp: | 52397 |
| Ion Ratio | Lower | Upper |       |
| 76        | 100   |       |       |
| 44        | 21.0  | 15.5  | 23.3  |
| 78        | 14.0  | 7.8   | 11.6# |

Manual Integrations  
APPROVED

MMDadoda  
5/27/2021 10:31:29 AM



#28

Methyl tert-Butyl Ether

Concen: 0.412 ppbv

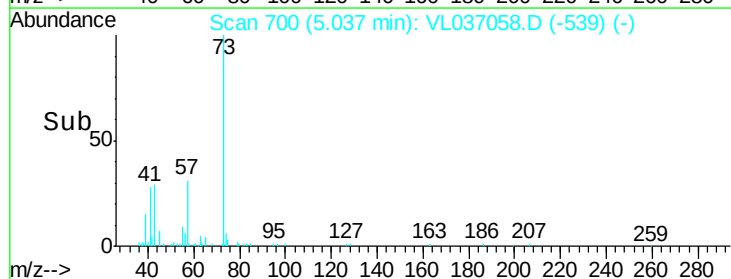
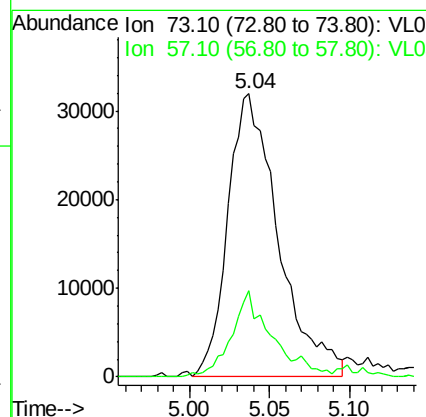
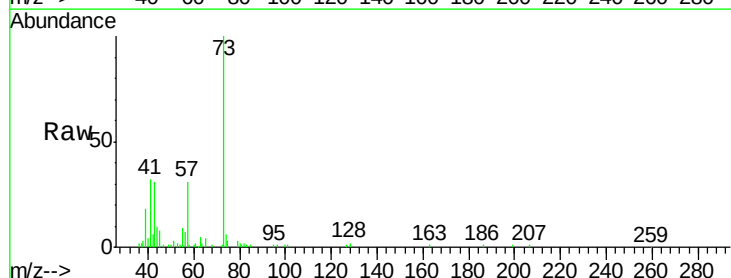
RT: 5.04 min Scan# 700

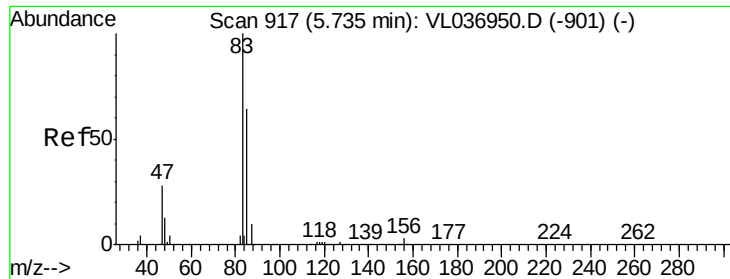
Delta R.T. 0.02 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 73    | Resp: | 69212 |
| Ion Ratio | Lower | Upper |       |
| 73        | 100   |       |       |
| 57        | 24.5  | 18.3  | 27.5  |





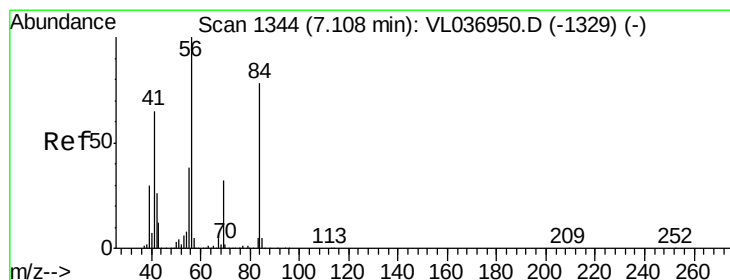
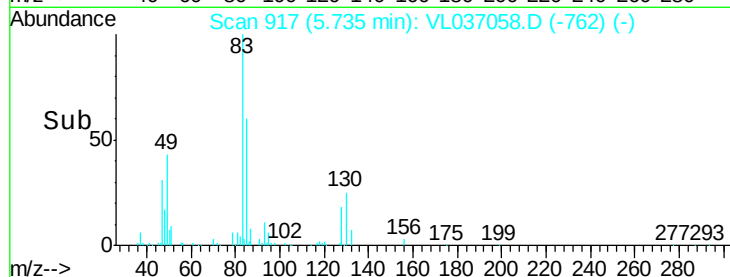
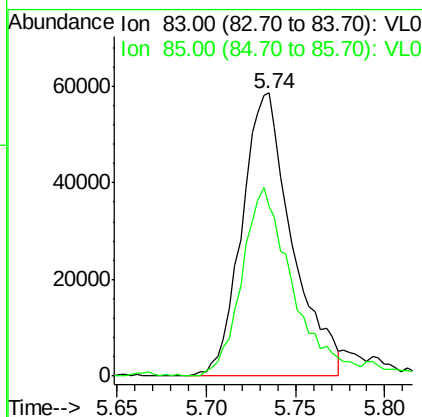
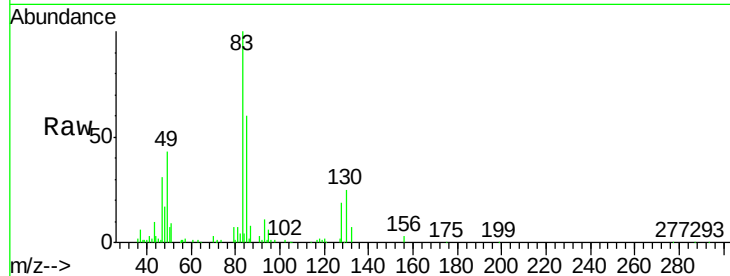
#29  
Chloroform  
Concen: 0.583 ppbv  
RT: 5.74 min Scan# 917  
Delta R.T. -0.00 min  
Lab File: VL037058.D  
Acq: 25 May 2021 13:22

Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT2-2021

Tgt Ion: 83 Resp: 115262  
Ion Ratio Lower Upper  
83 100  
85 59.9 51.1 76.7

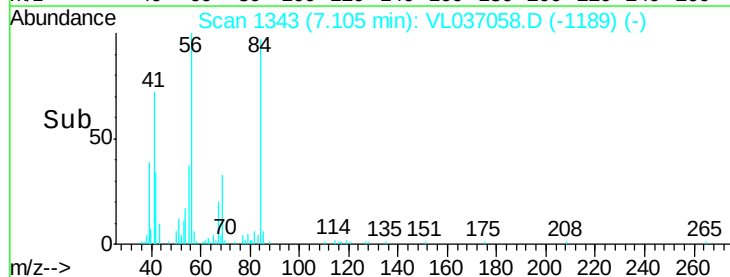
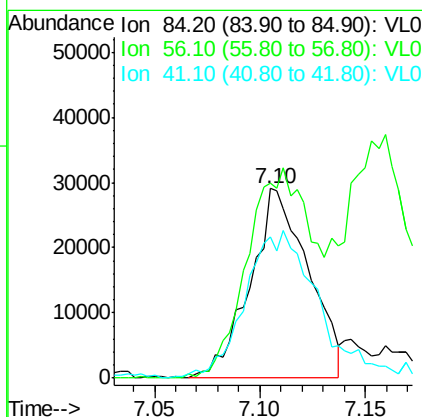
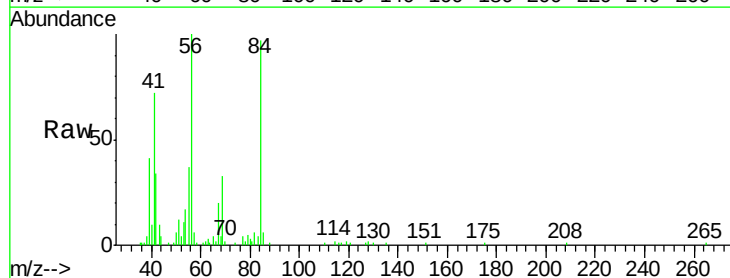
Manual Integrations  
APPROVED

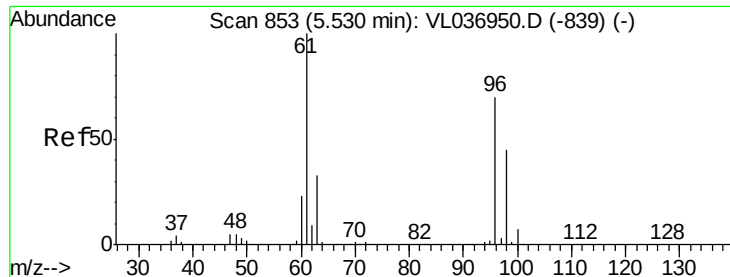
MMDadoda  
5/27/2021 10:31:29 AM



#30  
Cyclohexane  
Concen: 0.467 ppbv  
RT: 7.10 min Scan# 1343  
Delta R.T. -0.00 min  
Lab File: VL037058.D  
Acq: 25 May 2021 13:22

Tgt Ion: 84 Resp: 55625  
Ion Ratio Lower Upper  
84 100  
56 137.6 107.9 161.9  
41 99.3 65.5 98.3#





#31

cis-1,2-Dichloroethene

Concen: 0.500 ppbv

RT: 5.53 min Scan# 854

Delta R.T. 0.00 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

Instrument :

MSVOA\_L

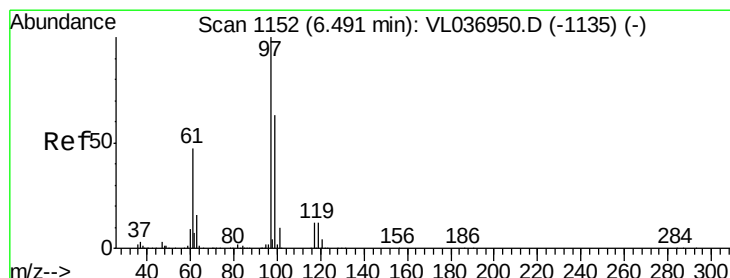
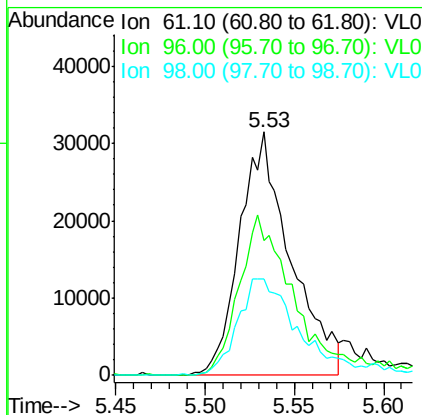
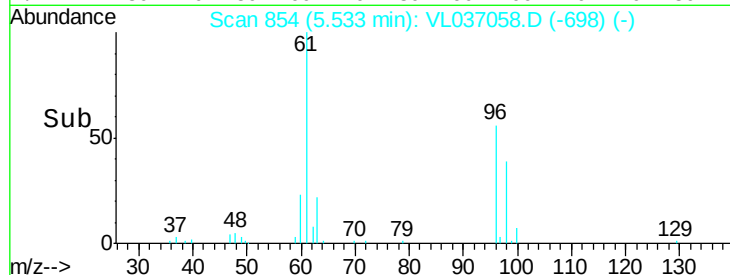
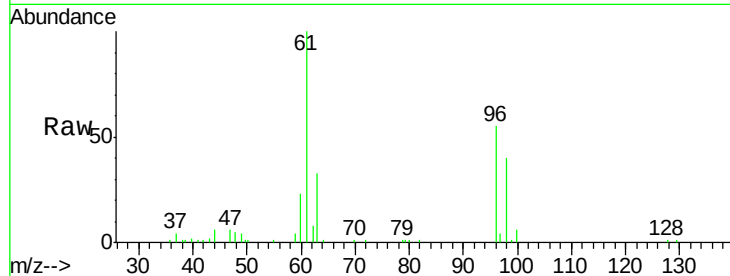
ClientSampleId :

MDL-AIR-03-QT2-2021

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 61    | Resp: | 62820 |
| Ion Ratio | Lower | Upper |       |
| 61        | 100   |       |       |
| 96        | 55.2  | 55.9  | 83.9# |
| 98        | 39.9  | 35.6  | 53.4  |

Manual Integrations  
APPROVED

MMDadoda  
5/27/2021 10:31:29 AM



#32

1,1,1-Trichloroethane

Concen: 0.499 ppbv

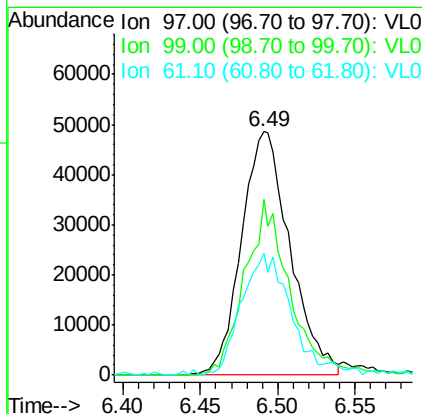
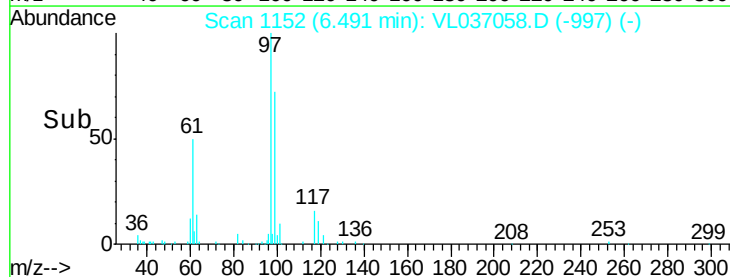
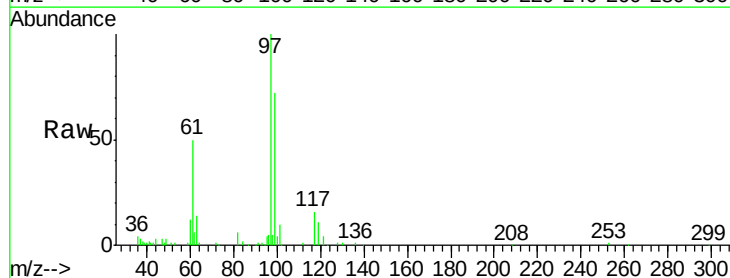
RT: 6.49 min Scan# 1152

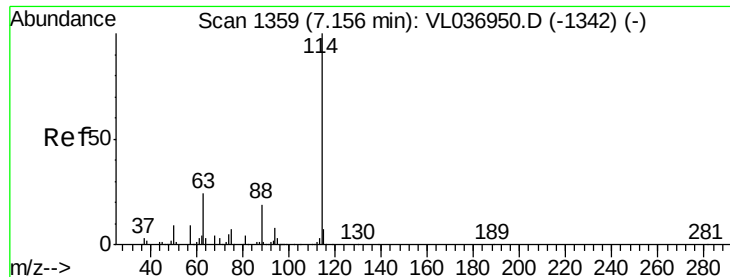
Delta R.T. -0.00 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 97    | Resp: | 106097 |
| Ion Ratio | Lower | Upper |        |
| 97        | 100   |       |        |
| 99        | 67.7  | 51.9  | 77.9   |
| 61        | 52.2  | 37.6  | 56.4   |





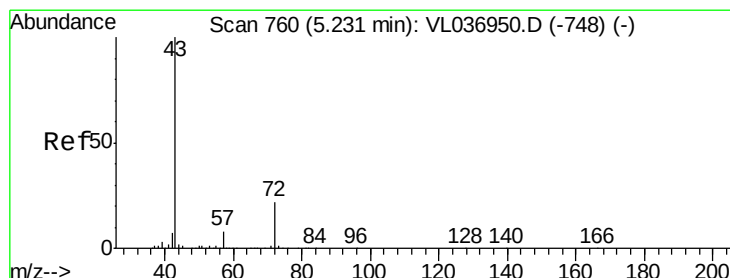
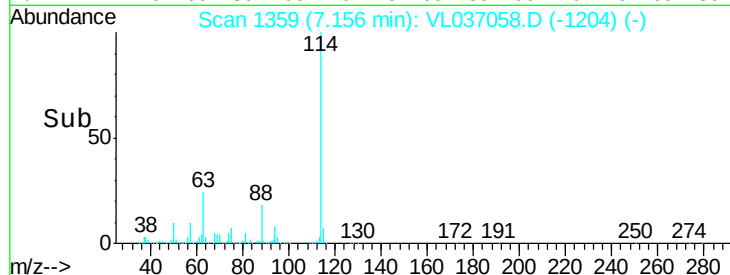
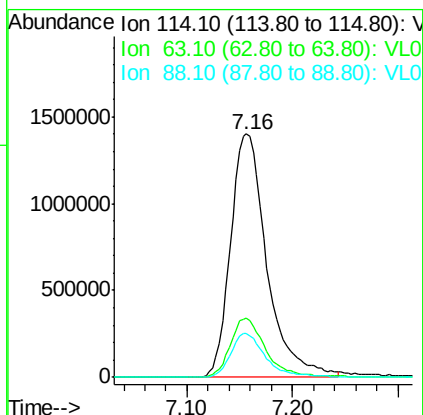
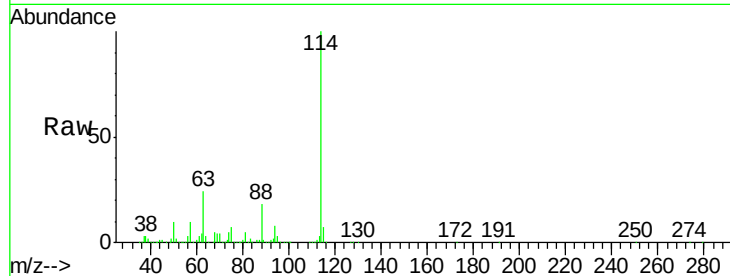
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.16 min Scan# 1359  
 Delta R.T. -0.00 min  
 Lab File: VL037058.D  
 Acq: 25 May 2021 13:22

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL-AIR-03-QT2-2021

Tgt Ion: 114 Resp: 3347017  
 Ion Ratio Lower Upper  
 114 100  
 63 24.3 19.6 29.4  
 88 17.6 14.6 21.8

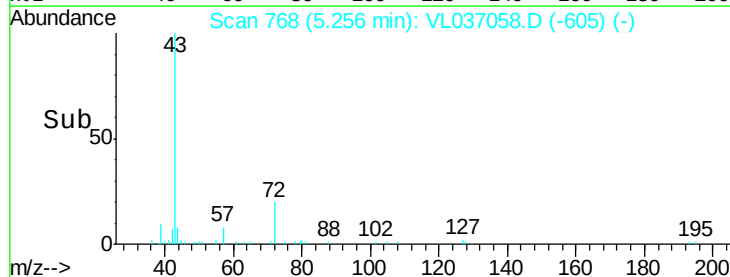
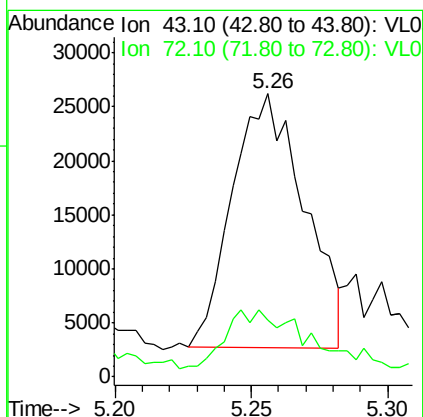
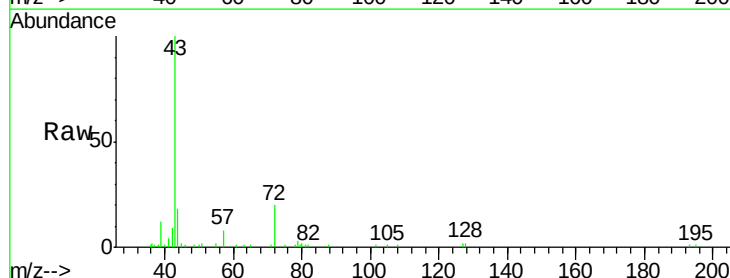
Manual Integrations  
 APPROVED

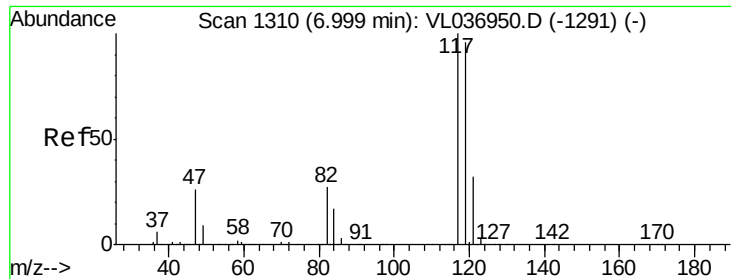
MMDadoda  
 5/27/2021 10:31:29 AM



#34  
 2-Butanone  
 Concen: 0.356 ppbv  
 RT: 5.26 min Scan# 768  
 Delta R.T. 0.03 min  
 Lab File: VL037058.D  
 Acq: 25 May 2021 13:22

Tgt Ion: 43 Resp: 43365  
 Ion Ratio Lower Upper  
 43 100  
 72 35.8 19.0 28.4#





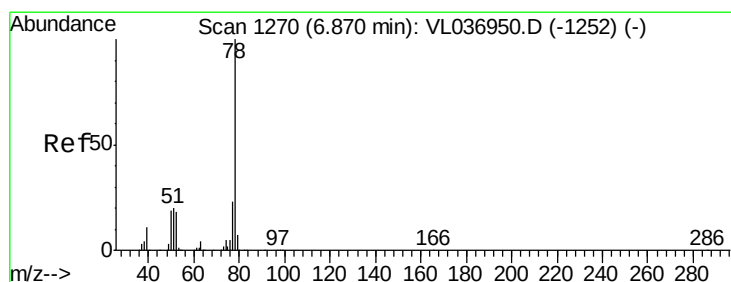
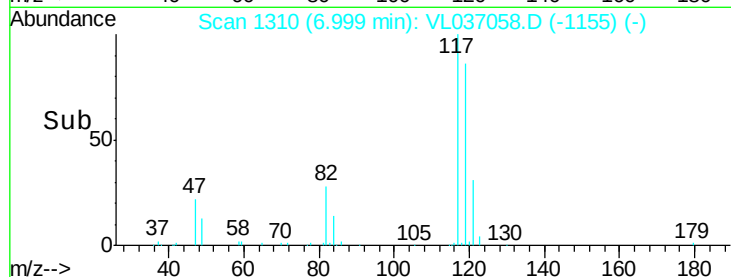
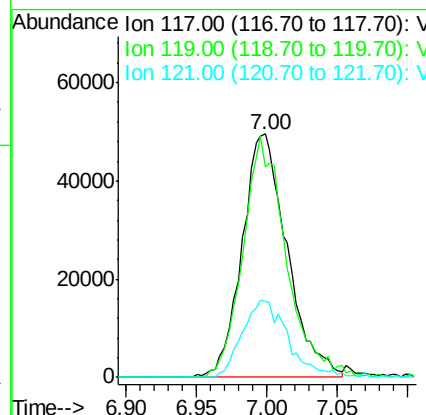
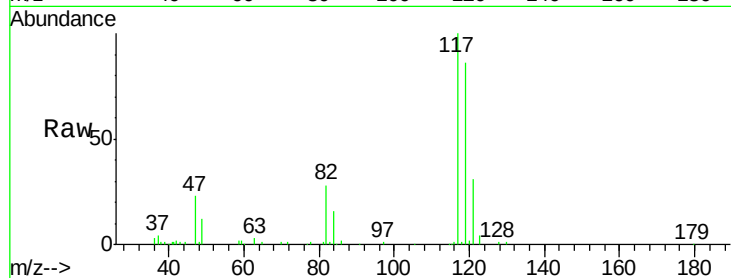
#35  
Carbon Tetrachloride  
Concen: 0.498 ppbv  
RT: 7.00 min Scan# 1310  
Delta R.T. -0.00 min  
Lab File: VL037058.D  
Acq: 25 May 2021 13:22

Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT2-2021

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 86.2  | 76.6  | 114.8 |
| 121     | 31.3  | 25.8  | 38.6  |

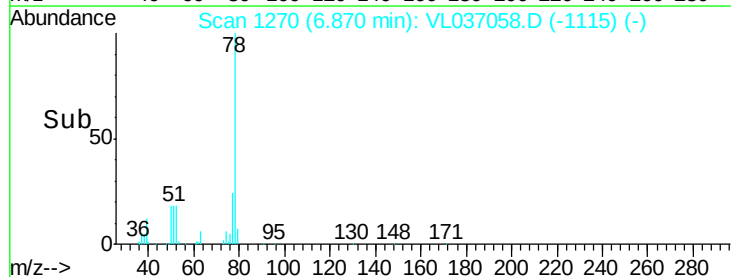
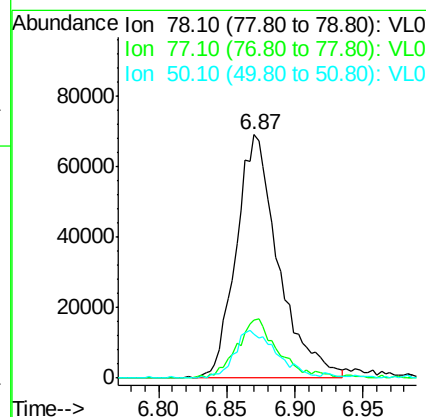
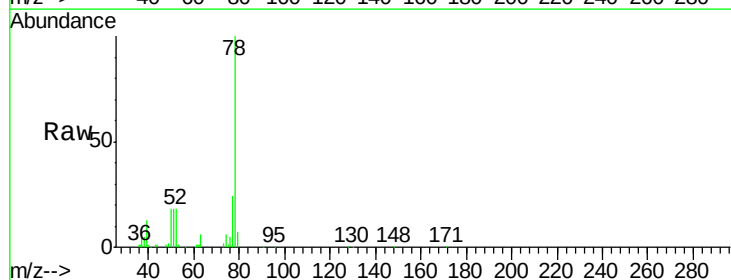
Manual Integrations  
APPROVED

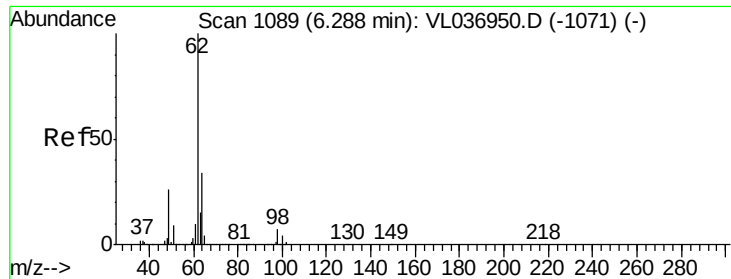
MMDadoda  
5/27/2021 10:31:29 AM



#36  
Benzene  
Concen: 0.516 ppbv  
RT: 6.87 min Scan# 1270  
Delta R.T. -0.00 min  
Lab File: VL037058.D  
Acq: 25 May 2021 13:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 23.5  | 18.6  | 28.0  |
| 50      | 18.0  | 15.0  | 22.4  |





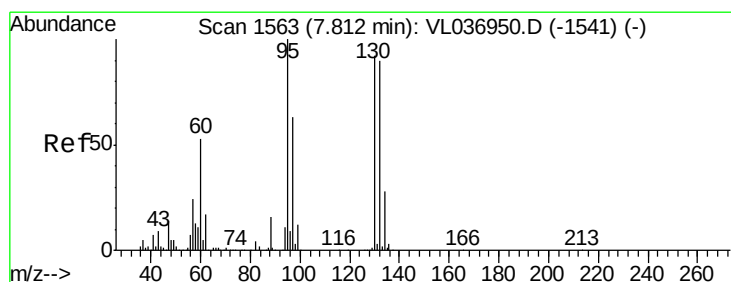
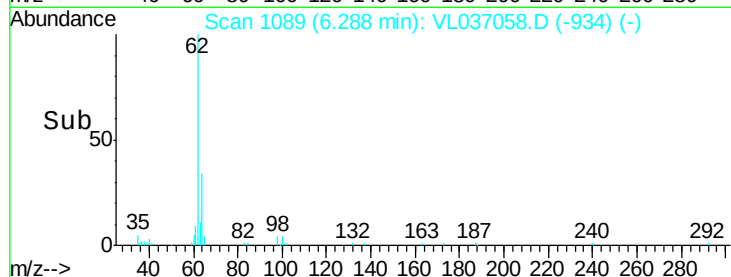
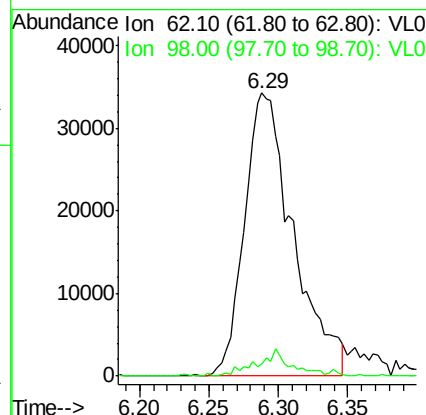
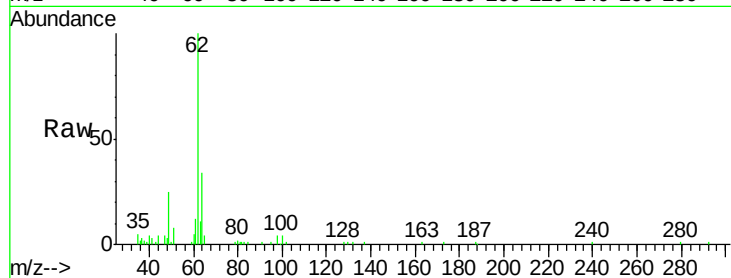
#37  
1,2-Dichloroethane  
Concen: 0.582 ppbv m  
RT: 6.29 min Scan# 1089  
Delta R.T. -0.00 min  
Lab File: VL037058.D  
Acq: 25 May 2021 13:22

Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT2-2021

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 62      | 100   |       |       |
| 98      | 0.0   | 5.5   | 8.3#  |

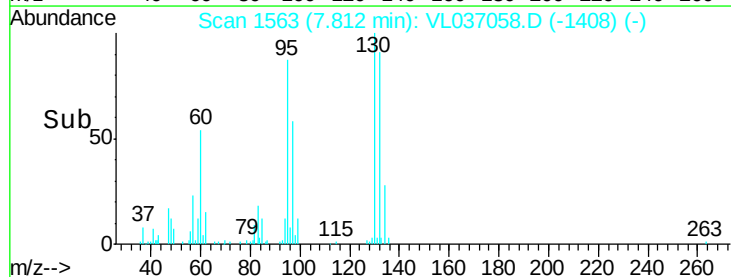
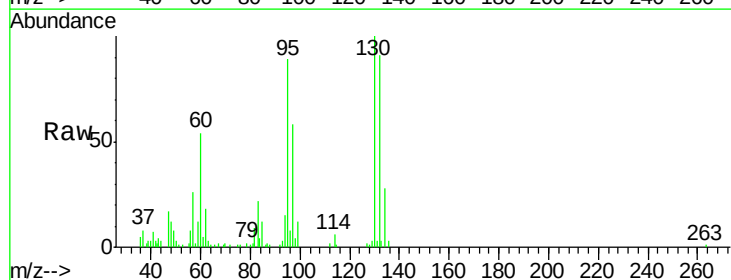
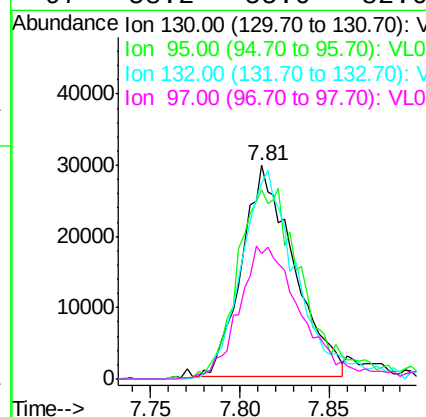
Manual Integrations  
APPROVED

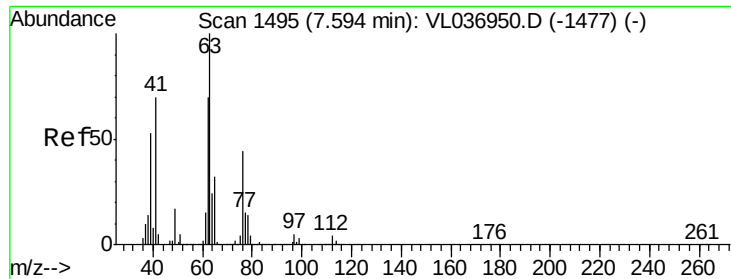
MMDadoda  
5/27/2021 10:31:29 AM



#38  
Trichloroethene  
Concen: 0.493 ppbv  
RT: 7.81 min Scan# 1563  
Delta R.T. -0.00 min  
Lab File: VL037058.D  
Acq: 25 May 2021 13:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 130     | 100   |       |       |
| 95      | 88.8  | 86.9  | 130.3 |
| 132     | 91.8  | 78.4  | 117.6 |
| 97      | 58.2  | 55.0  | 82.6  |





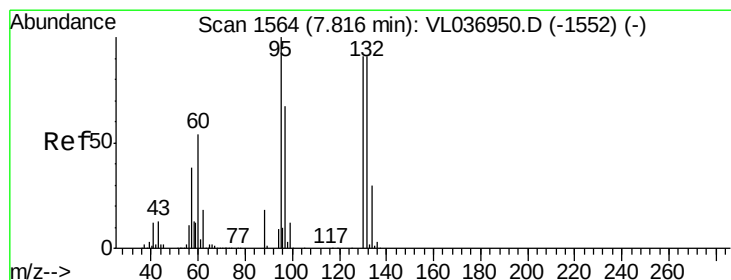
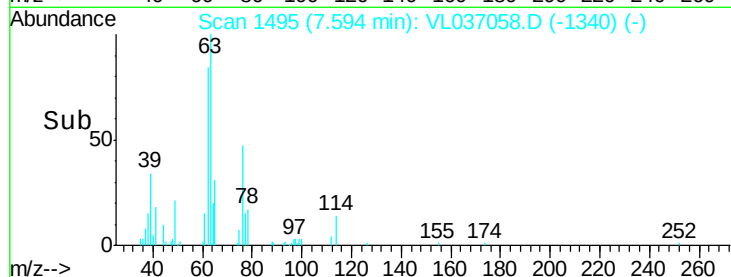
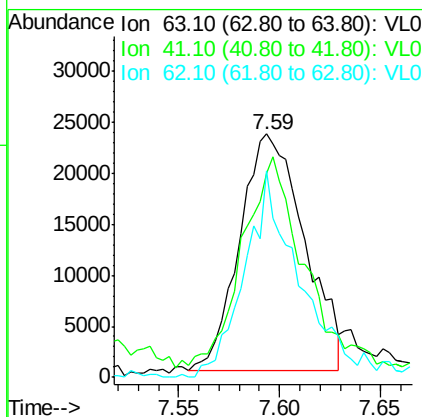
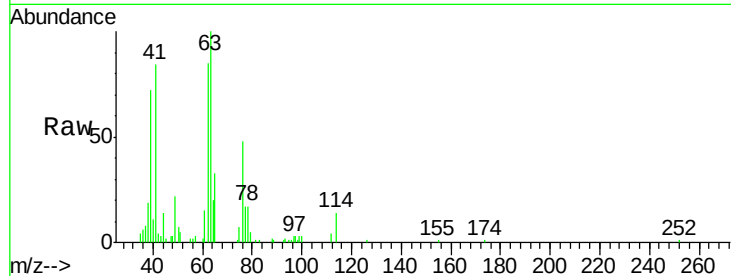
#39  
 1,2-Dichloropropane  
 Concen: 0.469 ppbv  
 RT: 7.59 min Scan# 1495  
 Delta R.T. -0.00 min  
 Lab File: VL037058.D  
 Acq: 25 May 2021 13:22

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL-AIR-03-QT2-2021

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 41      | 81.2  | 55.7  | 83.5  |
| 62      | 86.9  | 56.2  | 84.4  |

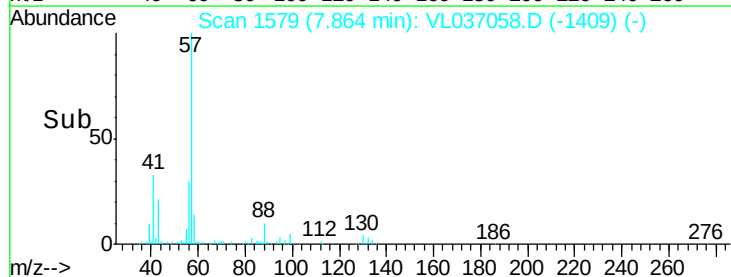
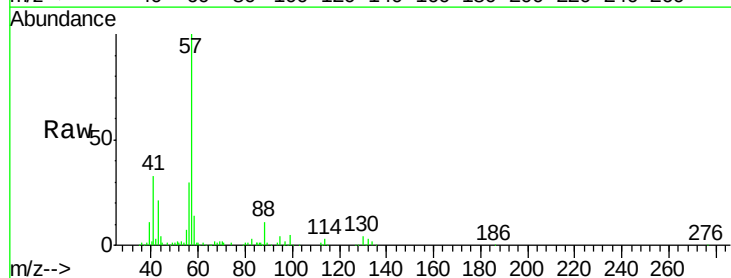
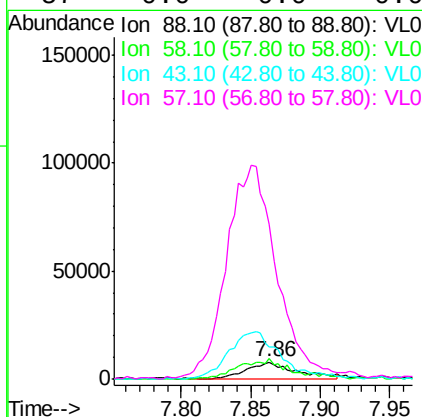
Manual Integrations  
 APPROVED

MMDadoda  
 5/27/2021 10:31:29 AM

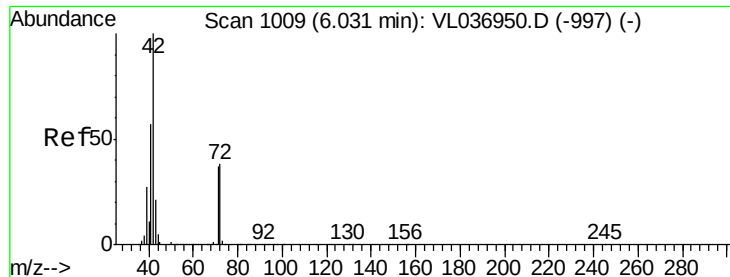


#40  
 1,4-Dioxane  
 Concen: 0.755 ppbv m  
 RT: 7.86 min Scan# 1579  
 Delta R.T. 0.05 min  
 Lab File: VL037058.D  
 Acq: 25 May 2021 13:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 58      | 0.0   | 0.0   | 0.0   |
| 43      | 0.0   | 0.0   | 0.0   |
| 57      | 0.0   | 0.0   | 0.0   |







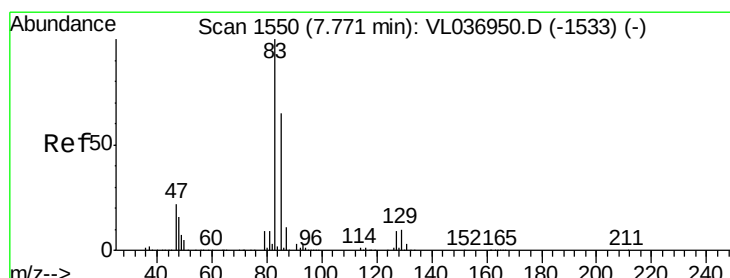
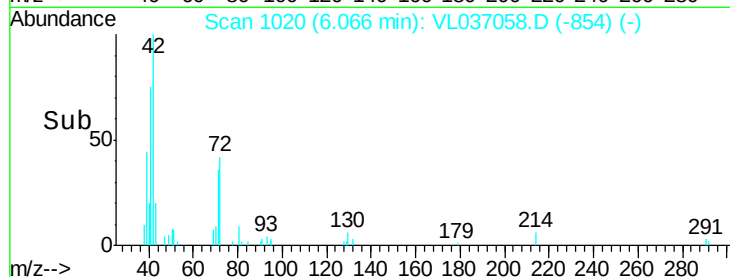
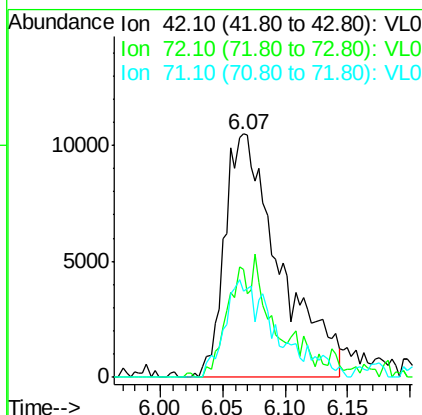
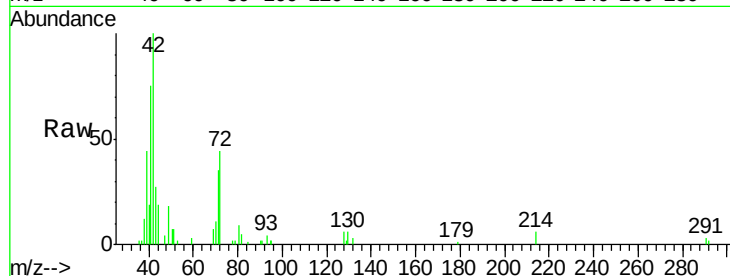
#41  
Tetrahydrofuran  
Concen: 0.464 ppbv m  
RT: 6.07 min Scan# 1020  
Delta R.T. 0.04 min  
Lab File: VL037058.D  
Acq: 25 May 2021 13:22

Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT2-2021

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 0.0   | 31.4  | 47.2# |
| 71      | 0.0   | 30.4  | 45.6# |

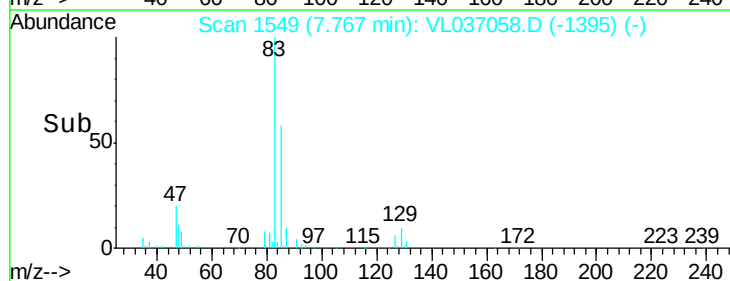
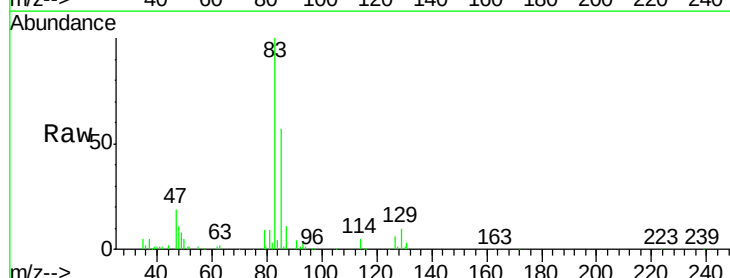
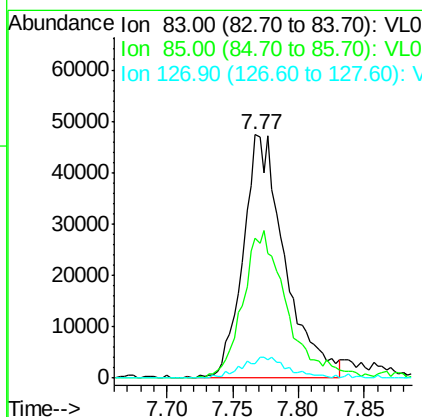
Manual Integrations  
APPROVED

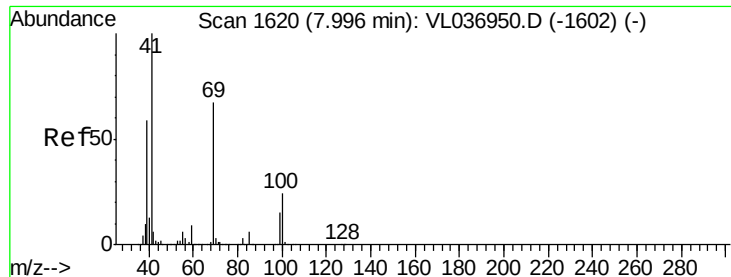
MMDadoda  
5/27/2021 10:31:29 AM



#42  
Bromodichloromethane  
Concen: 0.486 ppbv m  
RT: 7.77 min Scan# 1549  
Delta R.T. -0.00 min  
Lab File: VL037058.D  
Acq: 25 May 2021 13:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 57.3  | 51.7  | 77.5  |
| 127     | 6.0   | 6.9   | 10.3# |





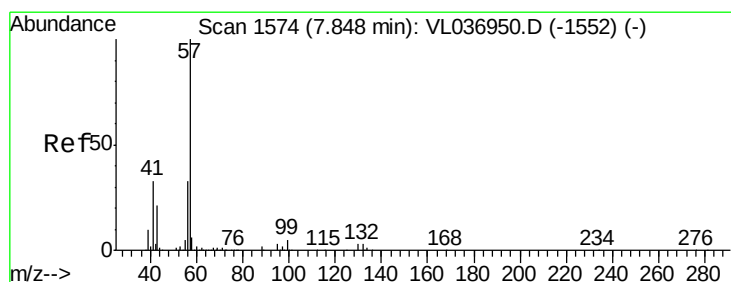
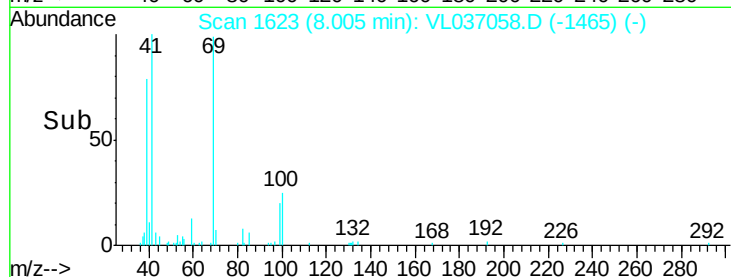
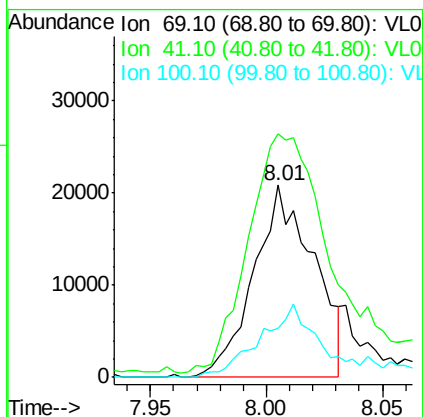
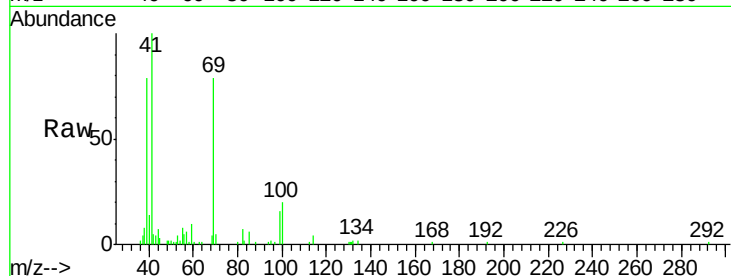
#43  
Methyl Methacrylate  
Concen: 0.376 ppbv  
RT: 8.01 min Scan# 1623  
Delta R.T. 0.01 min  
Lab File: VL037058.D  
Acq: 25 May 2021 13:22

Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT2-2021

Tgt Ion: 69 Resp: 37333  
Ion Ratio Lower Upper  
69 100  
41 173.6 118.6 178.0  
100 42.4 28.2 42.4

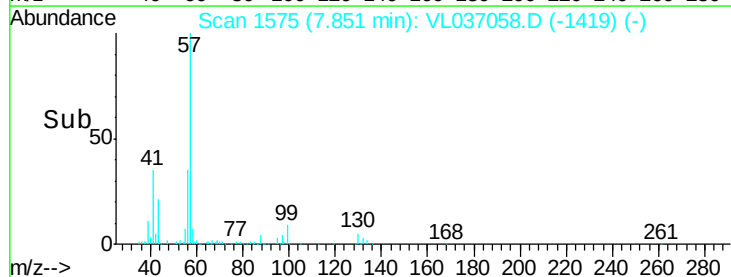
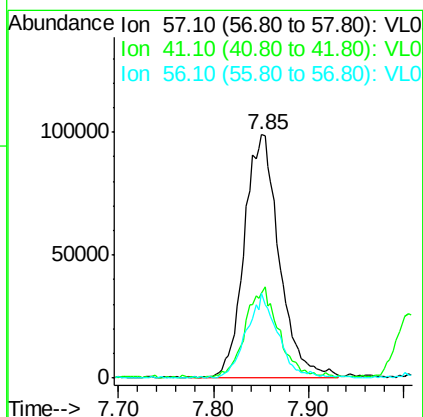
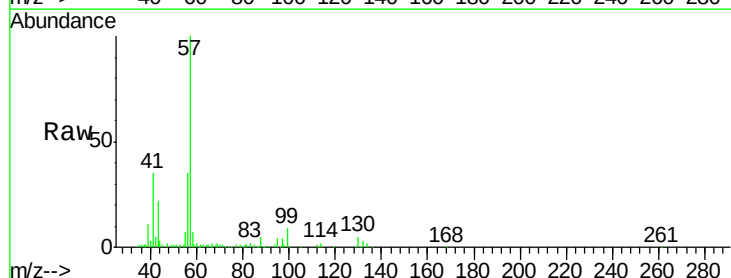
Manual Integrations  
APPROVED

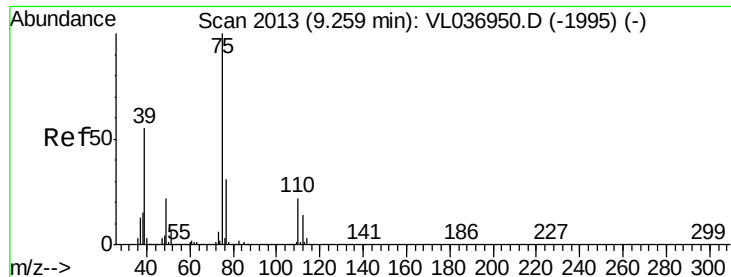
MMDadoda  
5/27/2021 10:31:29 AM



#44  
2,2,4-Trimethylpentane  
Concen: 0.514 ppbv m  
RT: 7.85 min Scan# 1575  
Delta R.T. 0.00 min  
Lab File: VL037058.D  
Acq: 25 May 2021 13:22

Tgt Ion: 57 Resp: 254278  
Ion Ratio Lower Upper  
57 100  
41 35.7 27.0 40.4  
56 31.8 25.4 38.2





#45

t-1,3-Dichloropropene

Concen: 0.334 ppbv m

RT: 9.26 min Scan# 2013

Delta R.T. -0.00 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-03-QT2-2021

Tgt Ion: 75 Resp: 25333

Ion Ratio Lower Upper

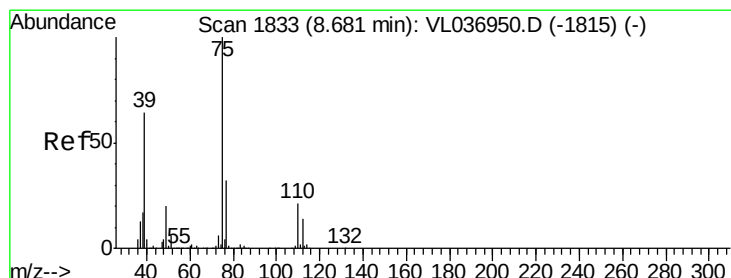
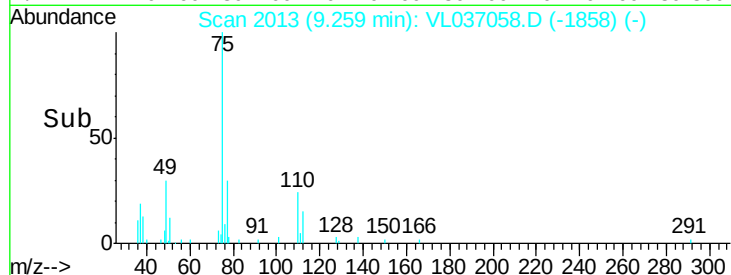
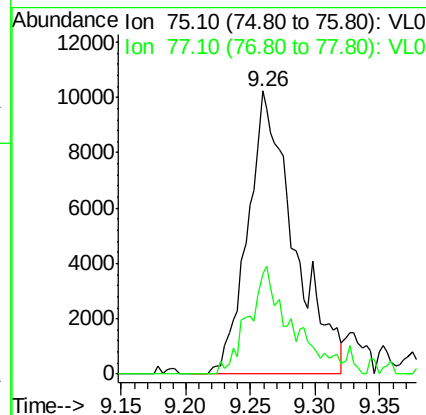
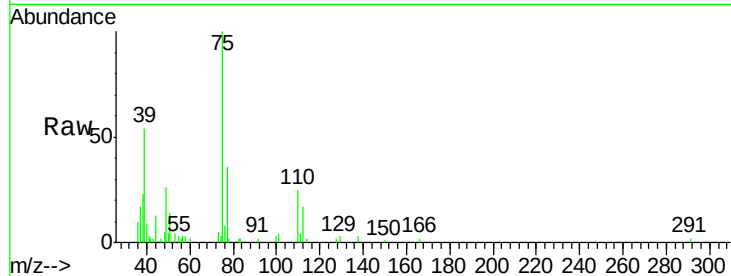
75 100

77 35.7 24.4 36.6

Manual Integrations  
APPROVED

MMDadoda

5/27/2021 10:31:29 AM



#46

cis-1,3-Dichloropropene

Concen: 0.376 ppbv

RT: 8.69 min Scan# 1836

Delta R.T. 0.01 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

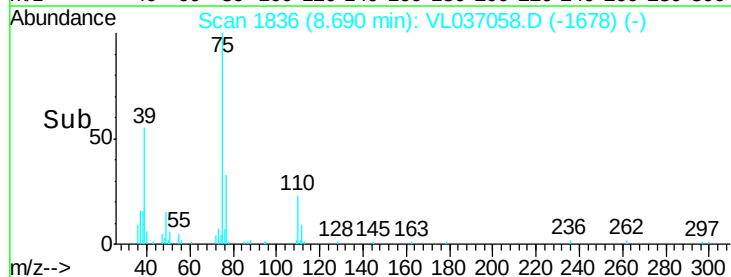
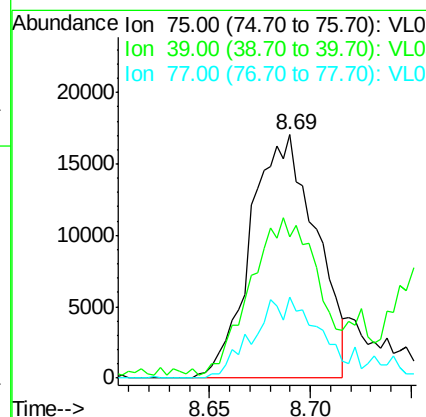
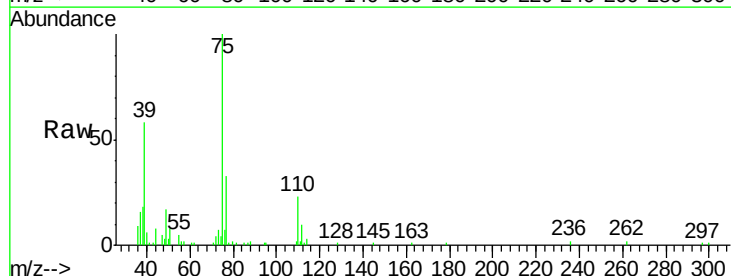
Tgt Ion: 75 Resp: 38379

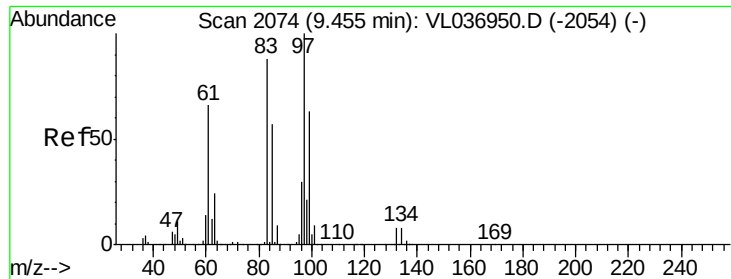
Ion Ratio Lower Upper

75 100

39 52.5 51.5 77.3

77 33.5 25.9 38.9





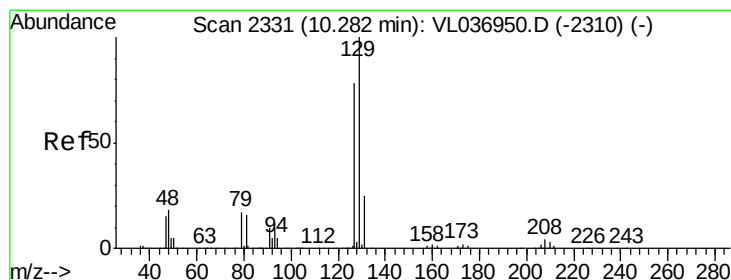
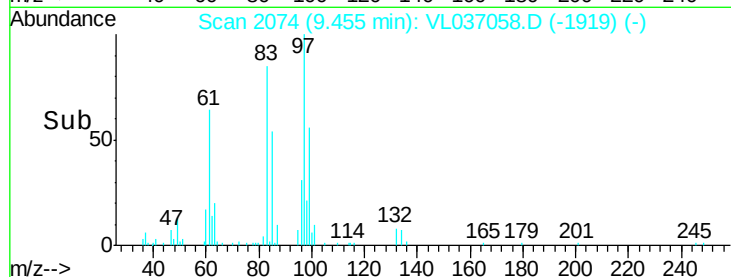
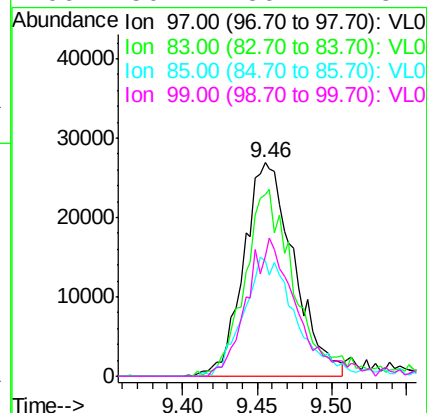
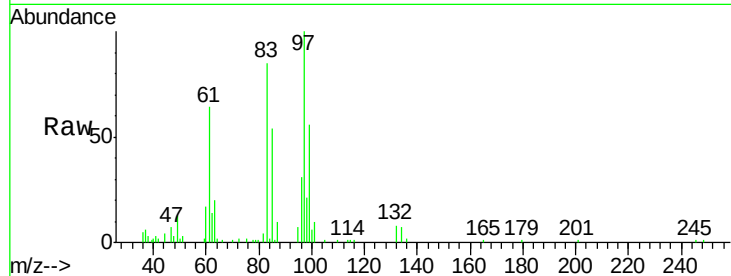
#47  
 1,1,2-Trichloroethane  
 Concen: 0.540 ppbv  
 RT: 9.46 min Scan# 2074  
 Delta R.T. -0.00 min  
 Lab File: VL037058.D  
 Acq: 25 May 2021 13:22

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL-AIR-03-QT2-2021

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 83      | 85.3  | 70.4  | 105.6 |
| 85      | 53.7  | 45.5  | 68.3  |
| 99      | 56.4  | 50.2  | 75.2  |

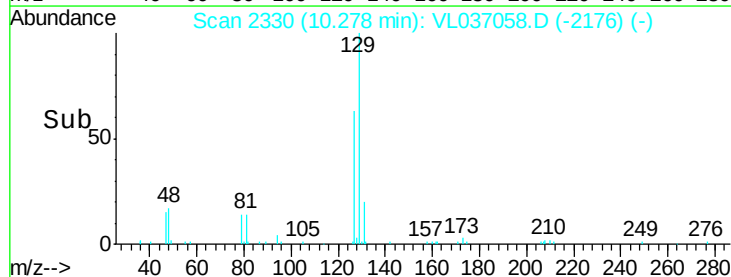
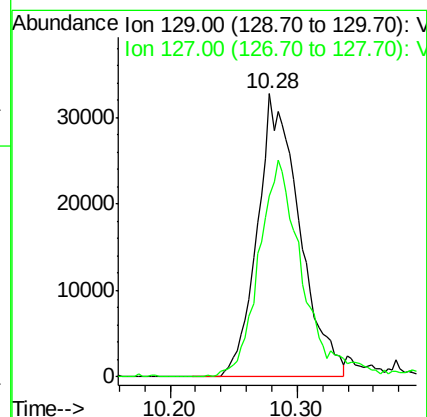
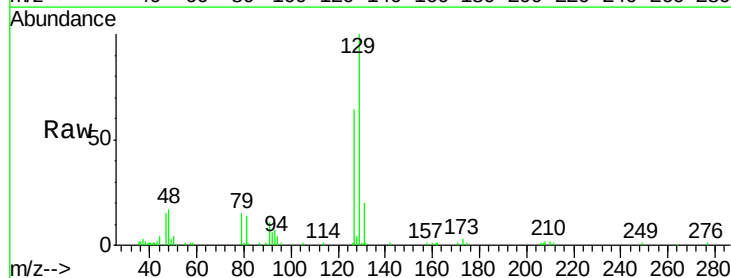
Manual Integrations  
 APPROVED

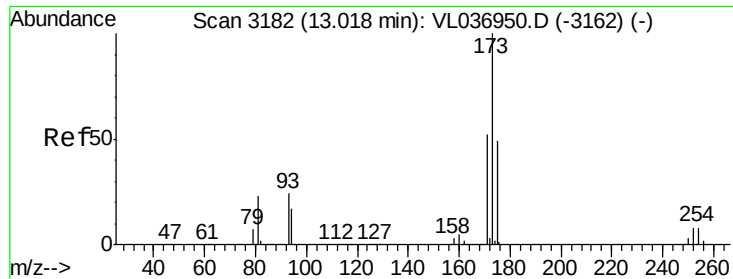
MMDadoda  
 5/27/2021 10:31:29 AM



#48  
 Dibromochloromethane  
 Concen: 0.401 ppbv m  
 RT: 10.28 min Scan# 2330  
 Delta R.T. -0.00 min  
 Lab File: VL037058.D  
 Acq: 25 May 2021 13:22

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 129     | 100   |       |        |
| 127     | 0.0   | 39.3  | 117.8# |





#49

Bromoform

Concen: 0.328 ppbv m

RT: 13.01 min Scan# 3181

Delta R.T. -0.00 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

Instrument :

MSVOA\_L

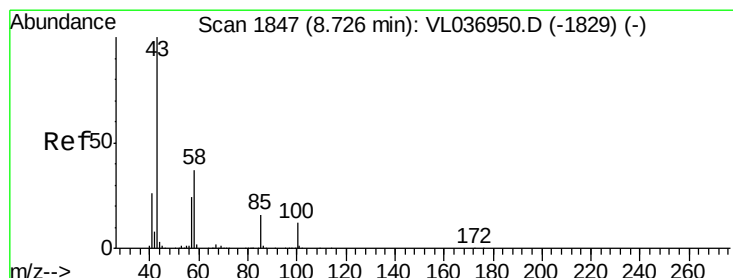
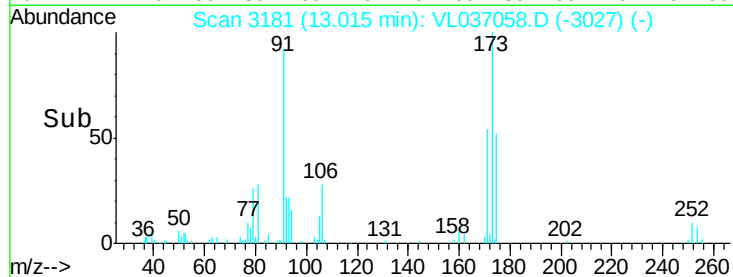
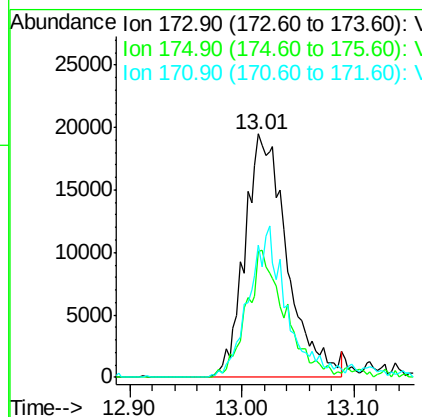
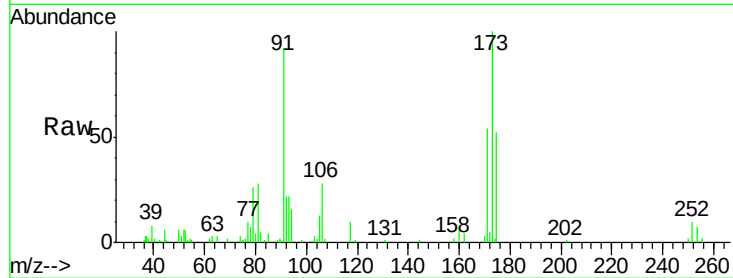
ClientSampleId :

MDL-AIR-03-QT2-2021

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 173     | 100   |       |       |
| 175     | 50.5  | 40.4  | 60.6  |
| 171     | 0.0   | 42.6  | 64.0  |

Manual Integrations  
APPROVED

MMDadoda  
5/27/2021 10:31:29 AM



#50

4-Methyl-2-Pentanone

Concen: 0.440 ppbv m

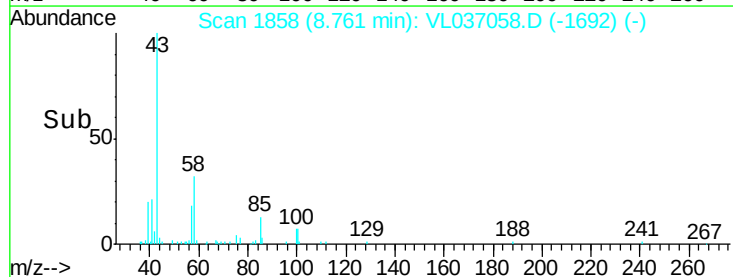
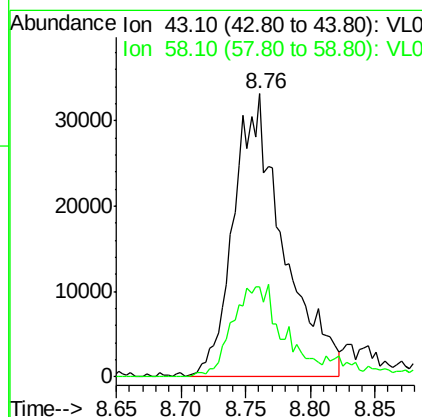
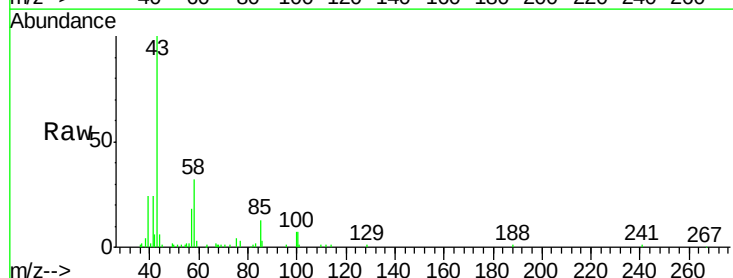
RT: 8.76 min Scan# 1858

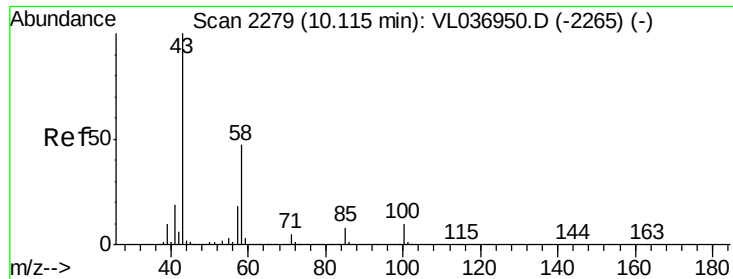
Delta R.T. 0.04 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 0.0   | 29.4  | 44.2  |





#51

2-Hexanone

Concen: 0.382 ppbv m

RT: 10.15 min Scan# 2291

Delta R.T. 0.04 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

Instrument :

MSVOA\_L

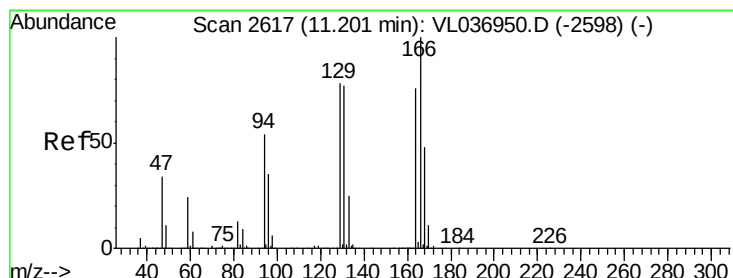
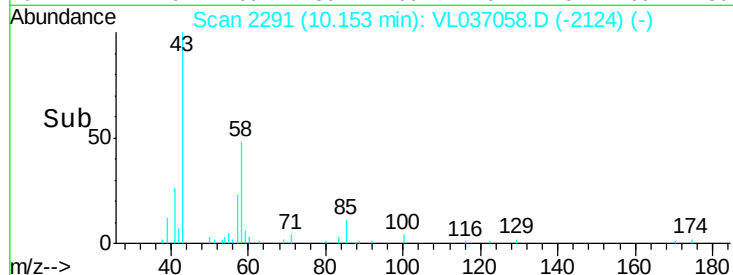
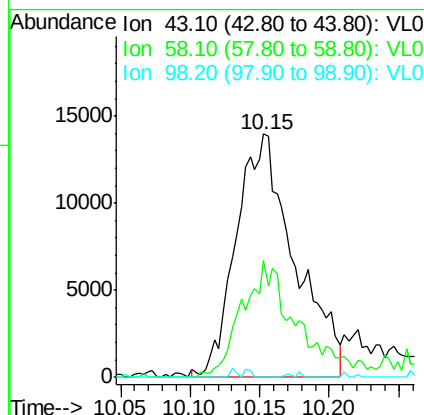
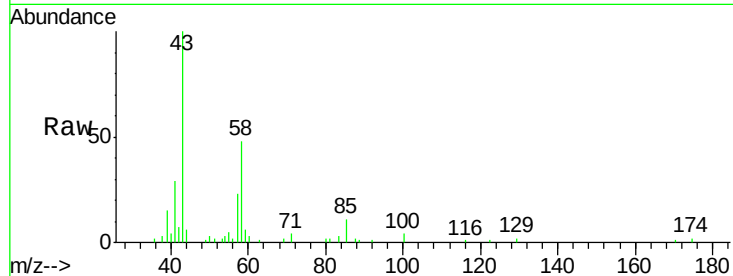
ClientSampleId :

MDL-AIR-03-QT2-2021

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 43    | Resp: | 40646 |
| Ion Ratio | Lower | Upper |       |
| 43        | 100   |       |       |
| 58        | 0.0   | 41.1  | 61.7# |
| 98        | 0.8   | 0.1   | 0.1#  |

Manual Integrations  
APPROVED

MMDadoda  
5/27/2021 10:31:29 AM



#52

Tetrachloroethene

Concen: 0.546 ppbv m

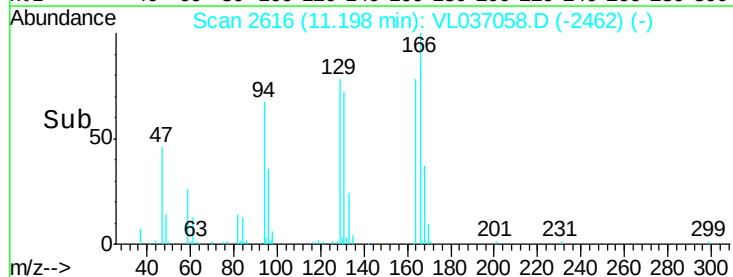
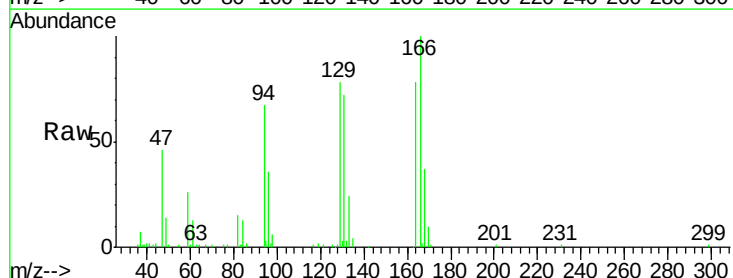
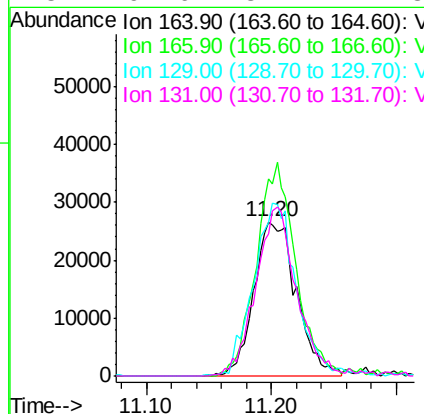
RT: 11.20 min Scan# 2616

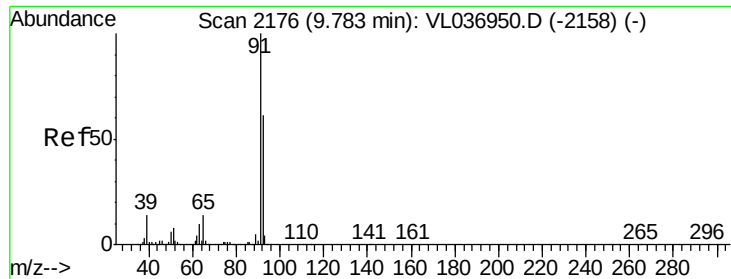
Delta R.T. -0.00 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 164   | Resp: | 62585 |
| Ion Ratio | Lower | Upper |       |
| 164       | 100   |       |       |
| 166       | 128.1 | 105.5 | 158.3 |
| 129       | 99.9  | 81.8  | 122.8 |
| 131       | 92.6  | 81.2  | 121.8 |





#53

Toluene

Concen: 0.449 ppbv

RT: 9.78 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-03-QT2-2021

Tgt Ion: 91 Resp: 154079

Ion Ratio Lower Upper

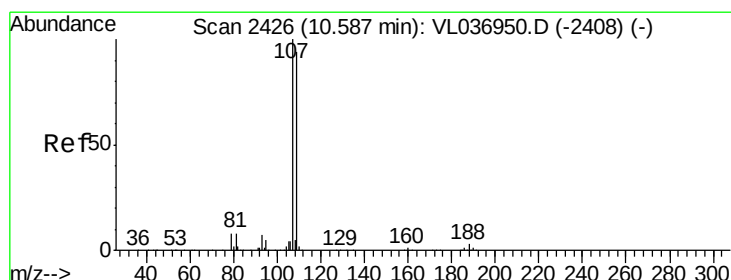
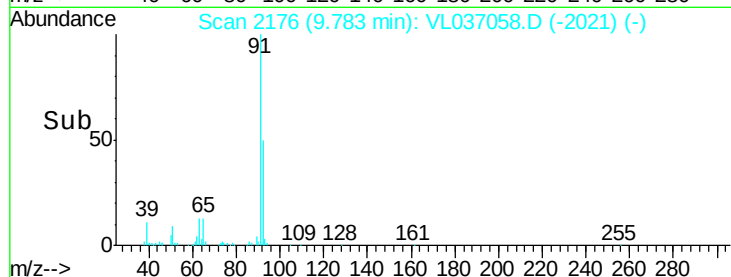
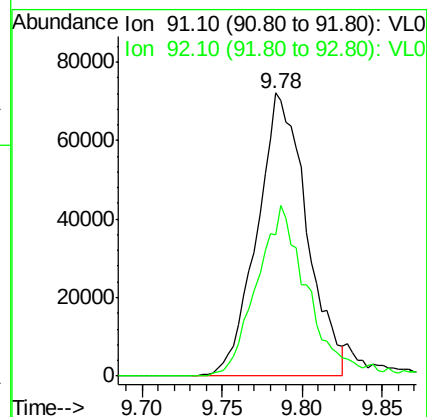
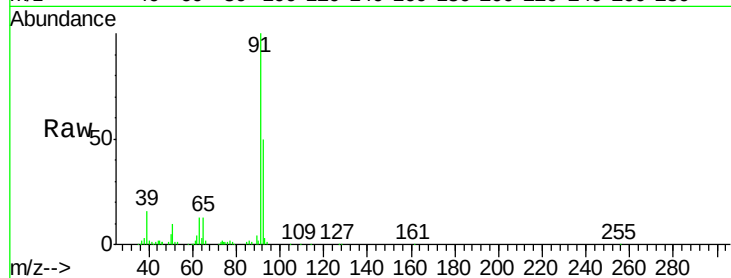
91 100

92 63.1 49.5 74.3

Manual Integrations  
APPROVED

MMDadoda

5/27/2021 10:31:29 AM



#54

1,2-Dibromoethane

Concen: 0.468 ppbv

RT: 10.59 min Scan# 2428

Delta R.T. 0.01 min

Lab File: VL037058.D

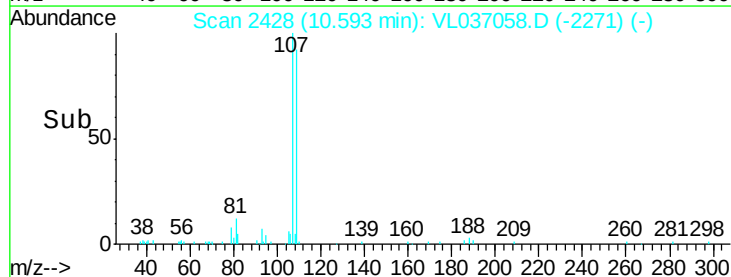
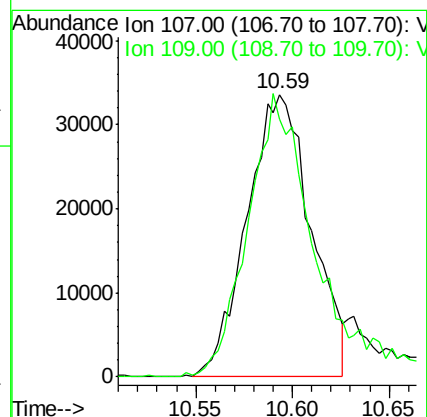
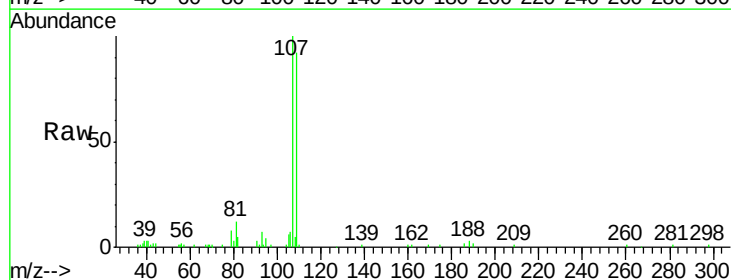
Acq: 25 May 2021 13:22

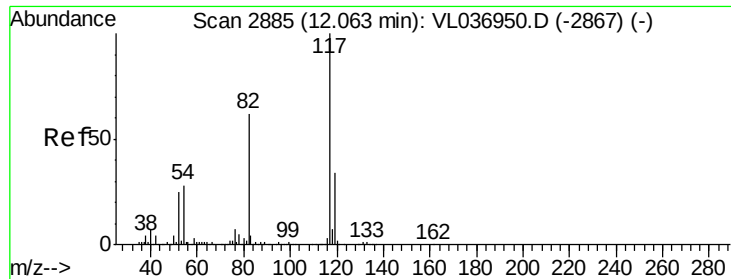
Tgt Ion: 107 Resp: 77307

Ion Ratio Lower Upper

107 100

109 91.0 75.0 112.4





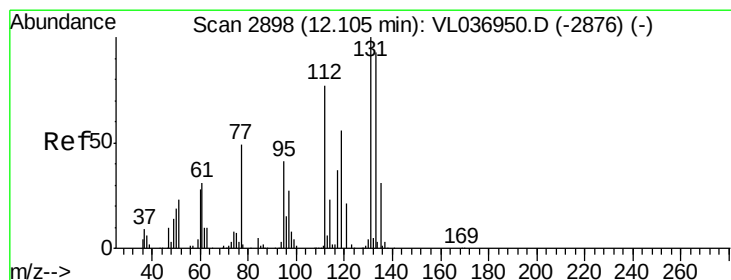
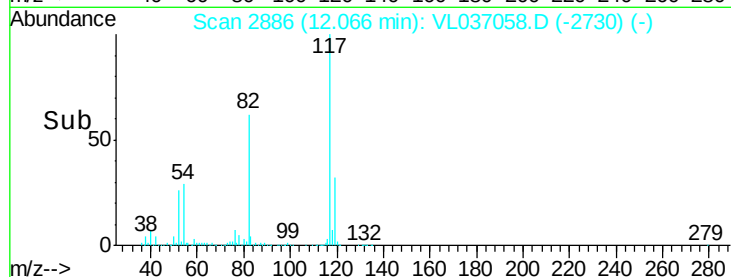
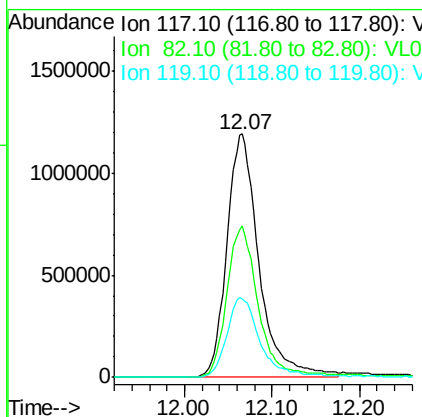
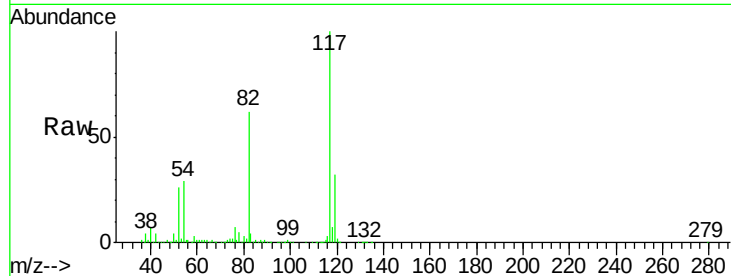
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.07 min Scan# 2886  
Delta R.T. 0.00 min  
Lab File: VL037058.D  
Acq: 25 May 2021 13:22

Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT2-2021

Tgt Ion:117 Resp: 3042723  
Ion Ratio Lower Upper  
117 100  
82 62.7 52.6 79.0  
119 34.3 46.6 70.0#

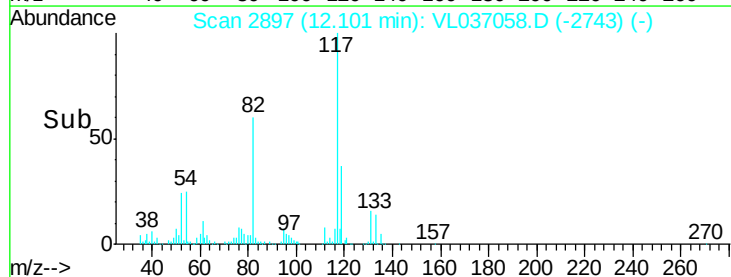
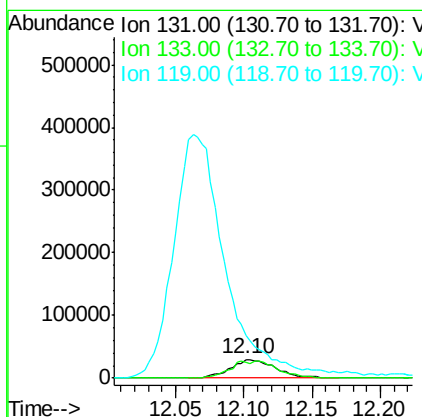
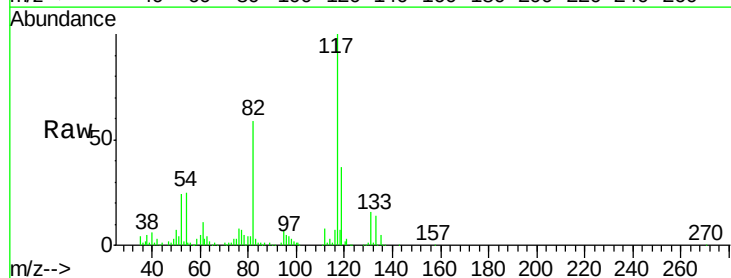
Manual Integrations  
APPROVED

MMDadoda  
5/27/2021 10:31:29 AM

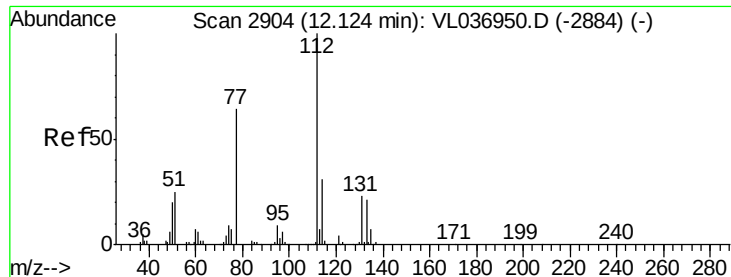


#56  
1,1,1,2-Tetrachloroethane  
Concen: 0.525 ppbv  
RT: 12.10 min Scan# 2897  
Delta R.T. -0.00 min  
Lab File: VL037058.D  
Acq: 25 May 2021 13:22

Tgt Ion:131 Resp: 67226  
Ion Ratio Lower Upper  
131 100  
133 101.6 76.9 115.3  
119 1554.9 120.2 180.4#







#57

Chlorobenzene

Concen: 0.594 ppbv

RT: 12.13 min Scan# 2906

Delta R.T. 0.01 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

Instrument :

MSVOA\_L

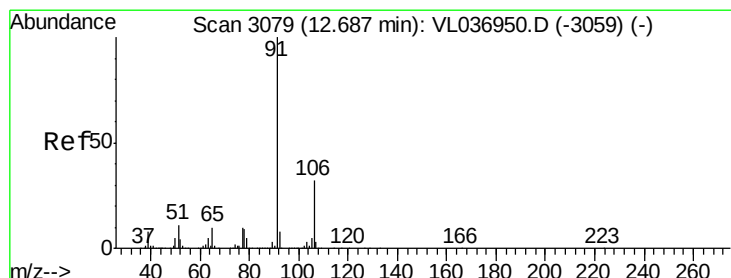
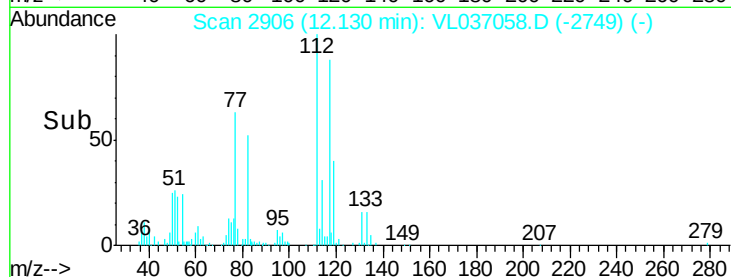
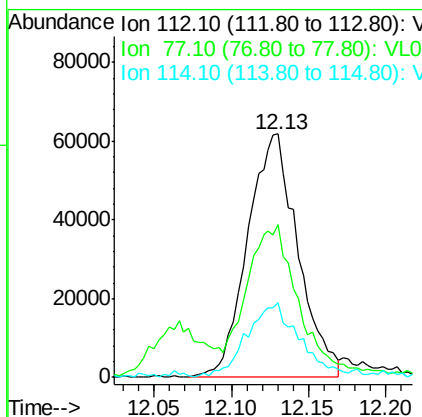
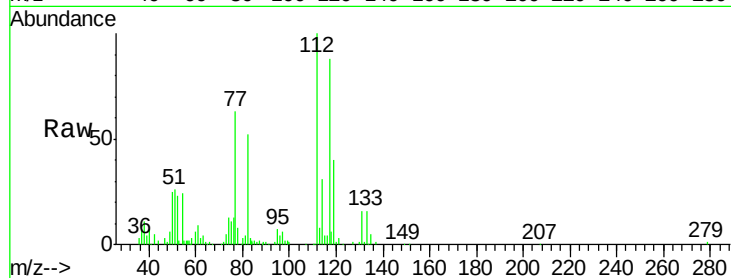
ClientSampleId :

MDL-AIR-03-QT2-2021

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 112   | Resp: | 140073 |
| Ion Ratio | Lower | Upper |        |
| 112       | 100   |       |        |
| 77        | 57.3  | 51.0  | 76.6   |
| 114       | 30.0  | 28.3  | 34.5   |

Manual Integrations  
APPROVED

MMDadoda  
5/27/2021 10:31:29 AM



#58

Ethyl Benzene

Concen: 0.511 ppbv

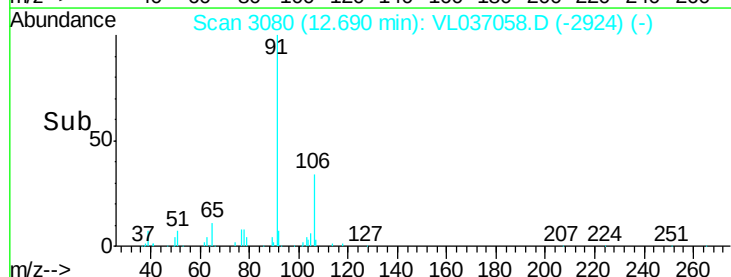
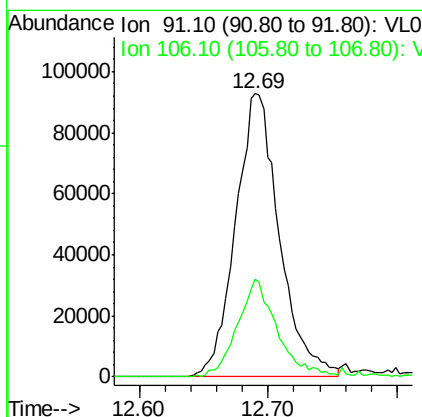
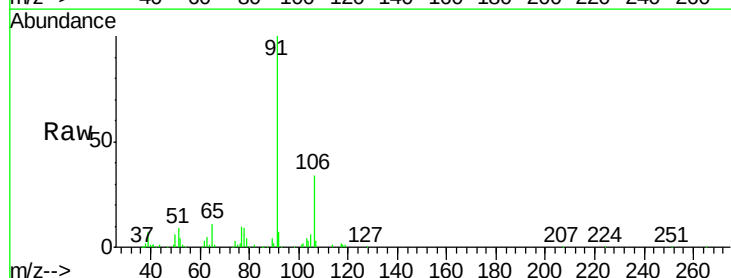
RT: 12.69 min Scan# 3080

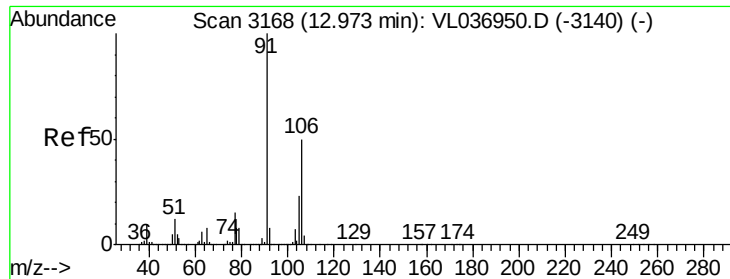
Delta R.T. 0.00 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 91    | Resp: | 219278 |
| Ion Ratio | Lower | Upper |        |
| 91        | 100   |       |        |
| 106       | 34.0  | 25.6  | 38.4   |





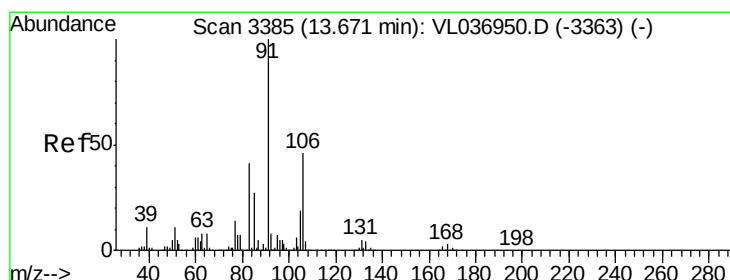
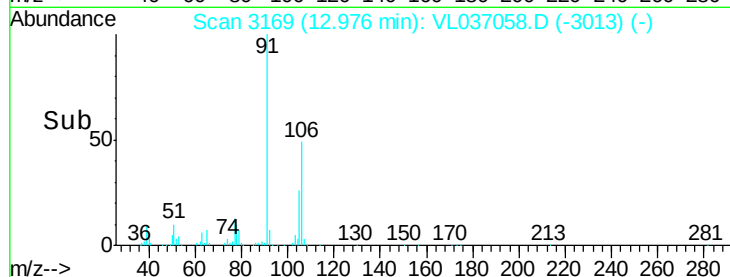
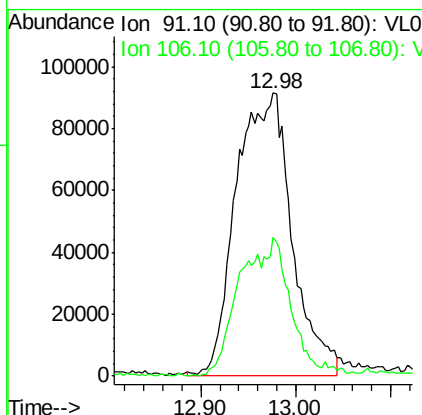
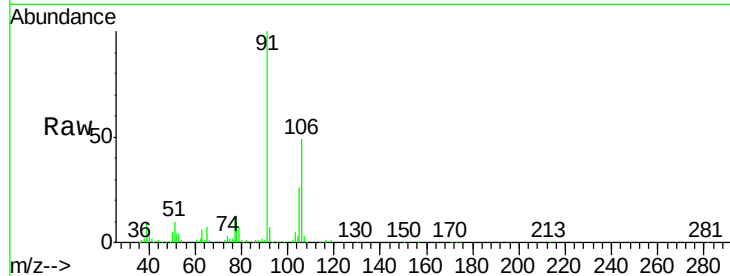
#59  
m/p-Xylene  
Concen: 1.053 ppbv m  
RT: 12.98 min Scan# 3169  
Delta R.T. 0.00 min  
Lab File: VL037058.D  
Acq: 25 May 2021 13:22

Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT2-2021

Tgt Ion: 91 Resp: 373723  
Ion Ratio Lower Upper  
91 100  
106 45.3 37.4 56.2

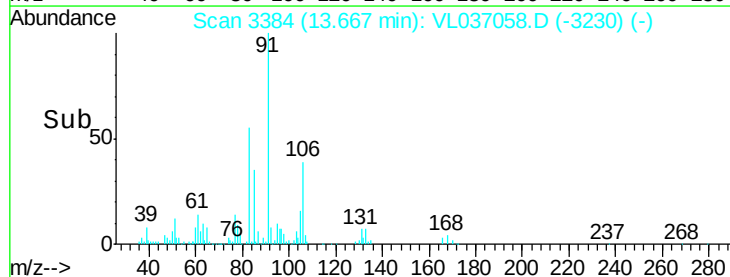
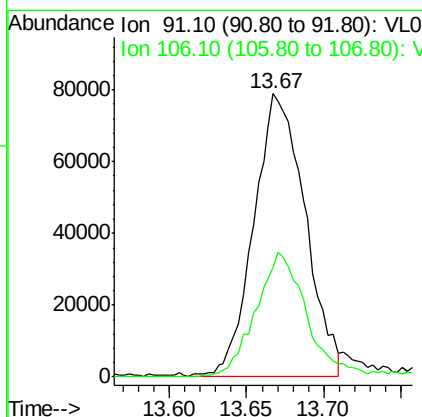
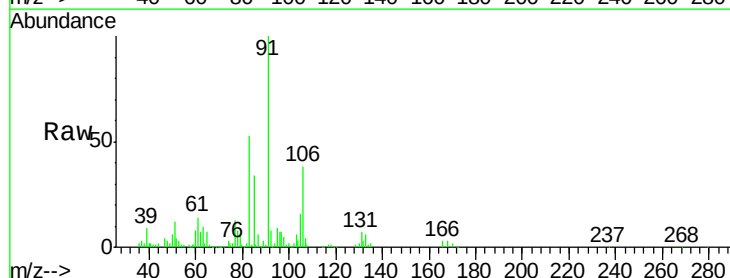
Manual Integrations  
APPROVED

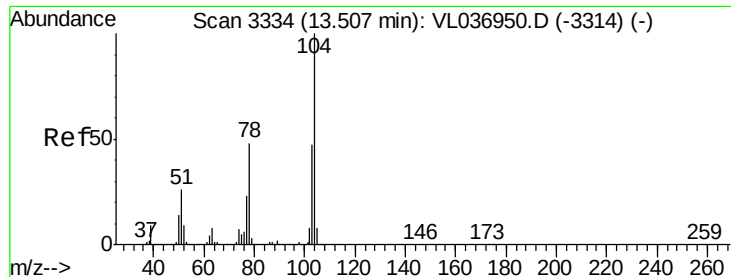
MMDadoda  
5/27/2021 10:31:29 AM



#60  
o-Xylene  
Concen: 0.535 ppbv  
RT: 13.67 min Scan# 3384  
Delta R.T. -0.00 min  
Lab File: VL037058.D  
Acq: 25 May 2021 13:22

Tgt Ion: 91 Resp: 181075  
Ion Ratio Lower Upper  
91 100  
106 45.4 23.4 70.3





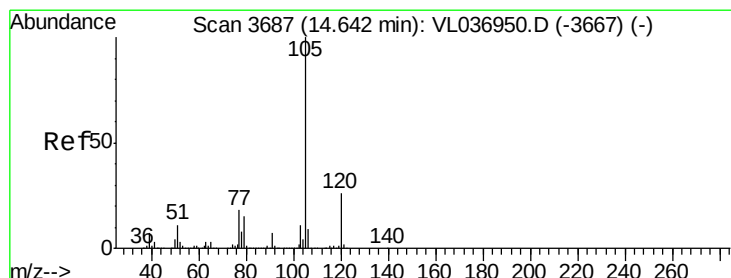
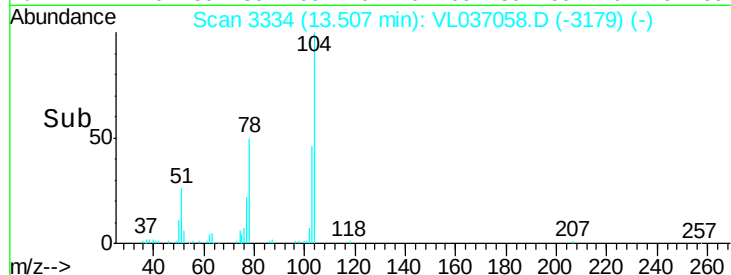
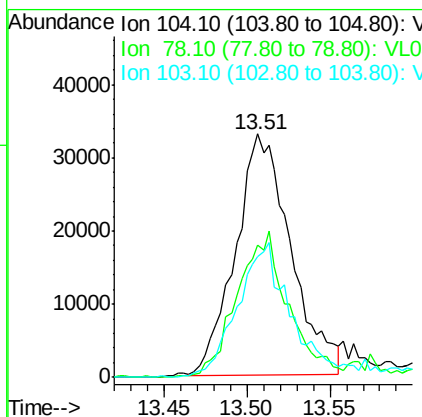
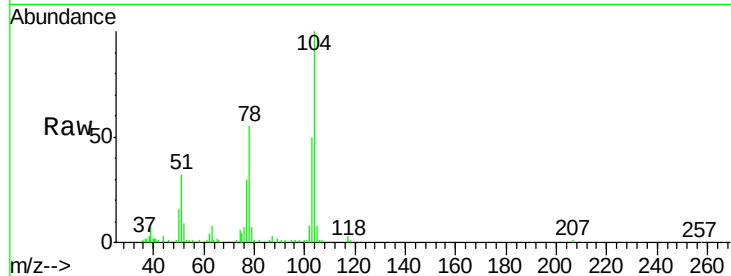
#61  
Styrene  
Concen: 0.403 ppbv  
RT: 13.51 min Scan# 3334  
Delta R.T. -0.00 min  
Lab File: VL037058.D  
Acq: 25 May 2021 13:22

Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT2-2021

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 104     | 100   |       |       |
| 78      | 59.1  | 39.0  | 58.6# |
| 103     | 57.7  | 38.0  | 57.0# |

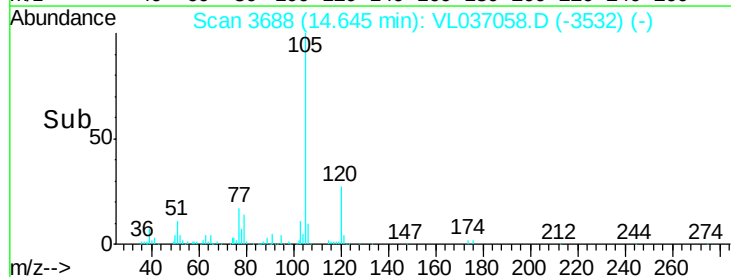
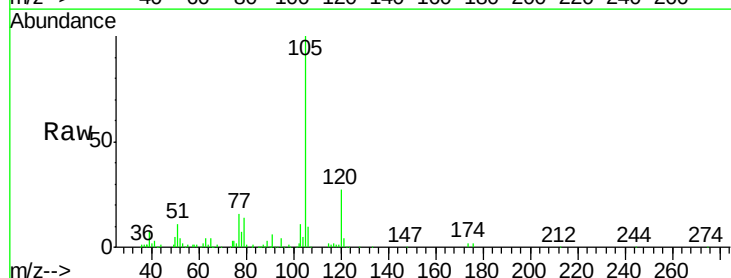
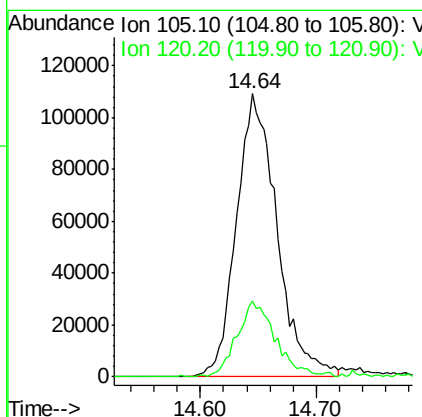
Manual Integrations  
APPROVED

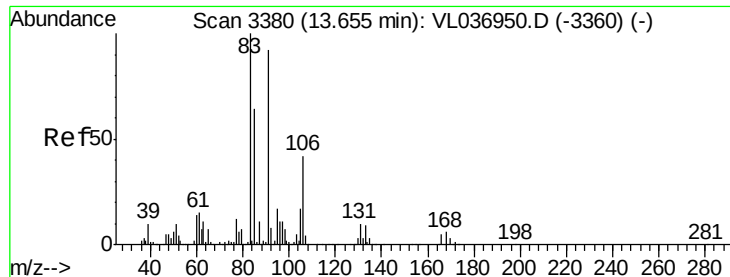
MMDadoda  
5/27/2021 10:31:29 AM



#62  
Isopropylbenzene  
Concen: 0.542 ppbv  
RT: 14.64 min Scan# 3688  
Delta R.T. 0.00 min  
Lab File: VL037058.D  
Acq: 25 May 2021 13:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 26.1  | 21.7  | 32.5  |





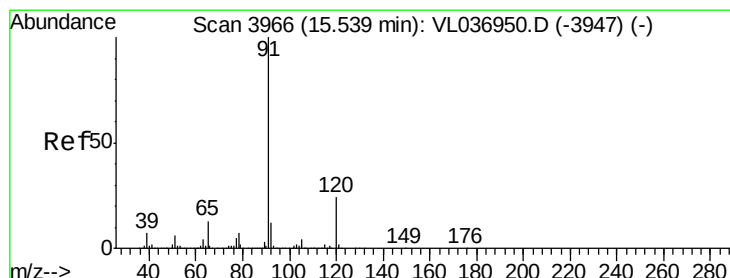
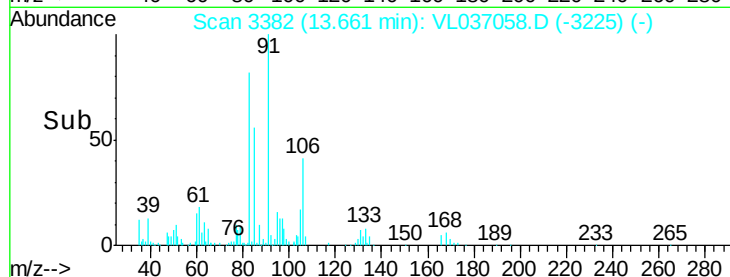
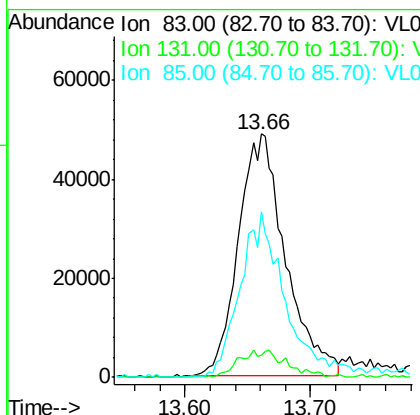
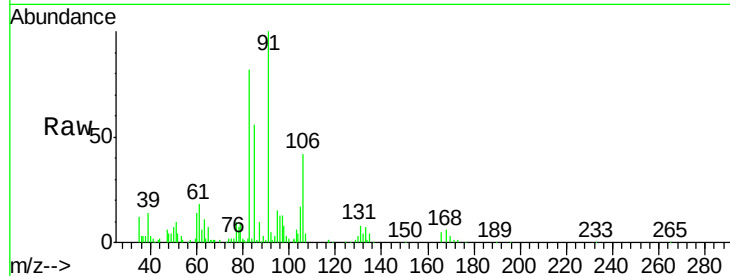
#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 0.502 ppbv  
 RT: 13.66 min Scan# 3382  
 Delta R.T. 0.01 min  
 Lab File: VL037058.D  
 Acq: 25 May 2021 13:22

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL-AIR-03-QT2-2021

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 131     | 11.7  | 5.0   | 15.0  |
| 85      | 67.6  | 32.9  | 98.6  |

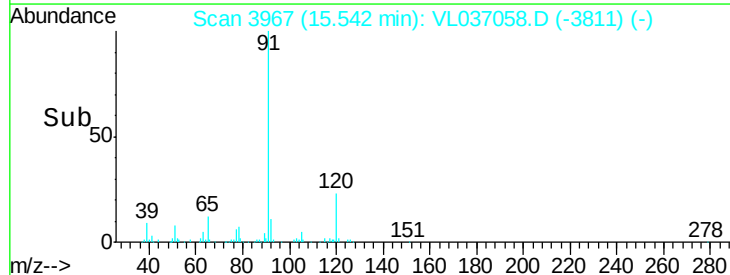
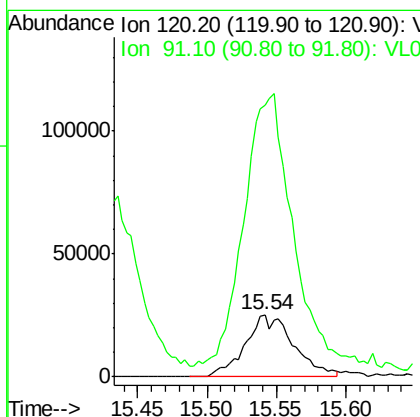
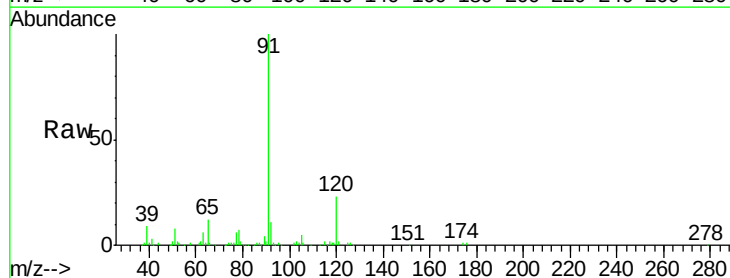
Manual Integrations  
 APPROVED

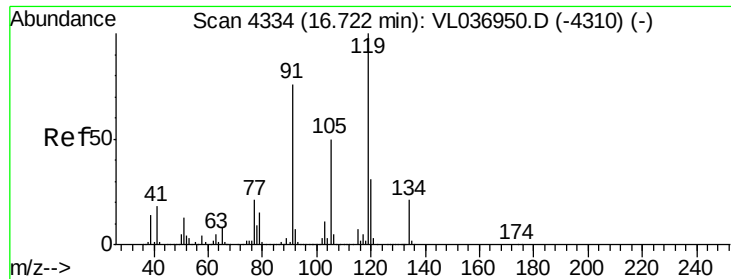
MMDadoda  
 5/27/2021 10:31:29 AM



#64  
 n-propylbenzene  
 Concen: 0.489 ppbv m  
 RT: 15.54 min Scan# 3967  
 Delta R.T. 0.00 min  
 Lab File: VL037058.D  
 Acq: 25 May 2021 13:22

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 120     | 100   |       |        |
| 91      | 517.9 | 343.8 | 515.6# |





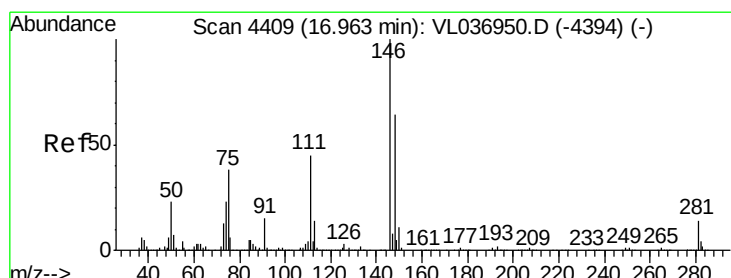
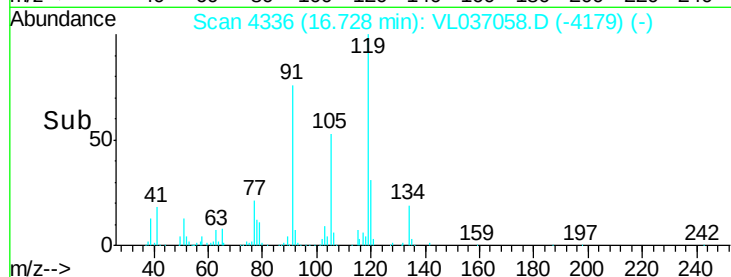
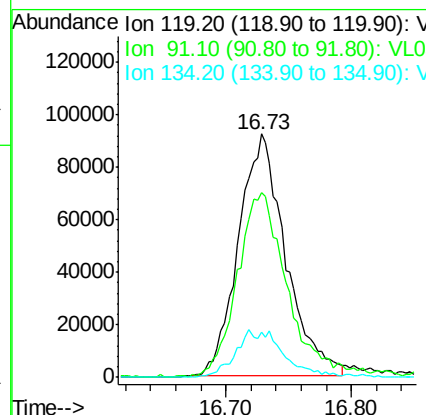
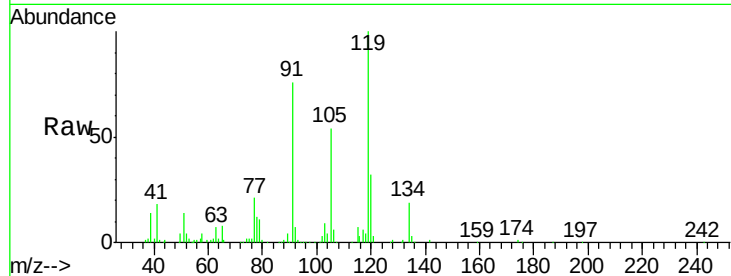
#65  
 tert-Butylbenzene  
 Concen: 0.548 ppbv  
 RT: 16.73 min Scan# 4336  
 Delta R.T. 0.01 min  
 Lab File: VL037058.D  
 Acq: 25 May 2021 13:22

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL-AIR-03-QT2-2021

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 119     | 100   | 240463 |       |       |
| 91      | 82.6  | 61.9   | 92.9  |       |
| 134     | 20.4  | 16.2   | 24.4  |       |

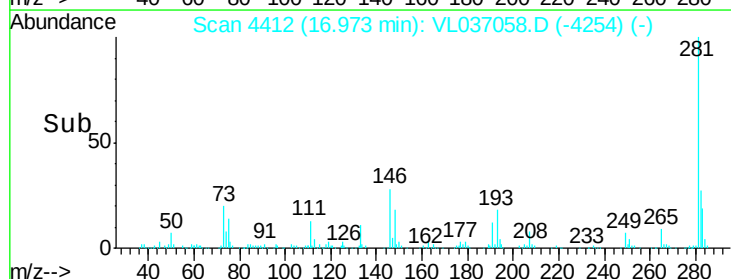
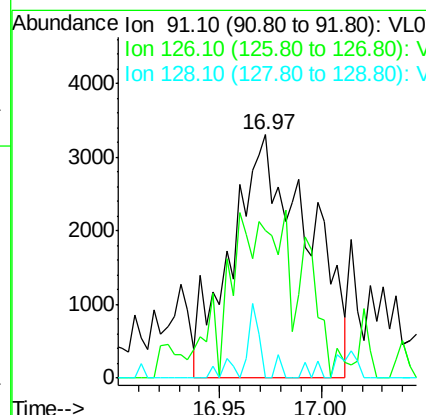
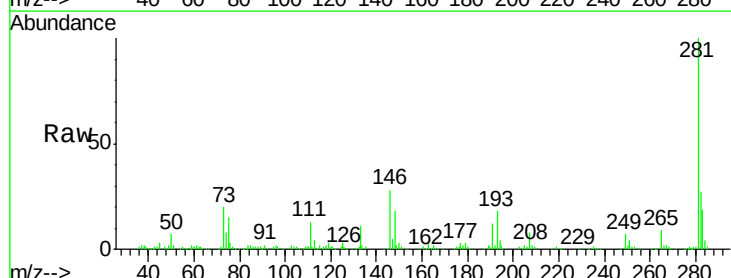
Manual Integrations  
 APPROVED

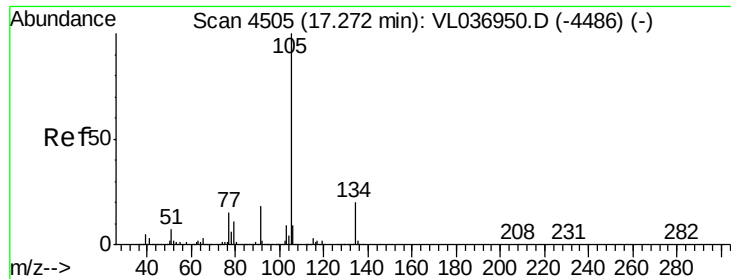
MMDadoda  
 5/27/2021 10:31:29 AM



#66  
 Benzyl Chloride  
 Concen: 0.357 ppbv m  
 RT: 16.97 min Scan# 4412  
 Delta R.T. 0.01 min  
 Lab File: VL037058.D  
 Acq: 25 May 2021 13:22

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 91      | 100   | 8695 |       |       |
| 126     | 71.8  | 16.5 | 24.7# |       |
| 128     | 5.8   | 5.5  | 8.3   |       |





#67

sec-Butylbenzene

Concen: 0.472 ppbv

RT: 17.28 min Scan# 4507

Delta R.T. 0.01 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-03-QT2-2021

Tgt Ion: 105 Resp: 282767

Ion Ratio Lower Upper

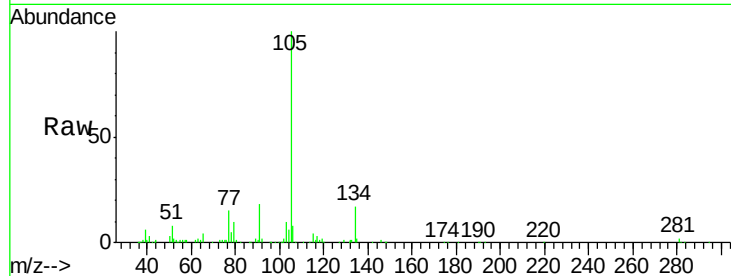
105 100

134 19.6 15.6 23.4

Manual Integrations  
APPROVED

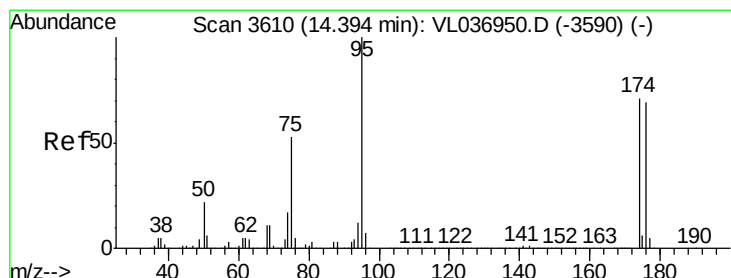
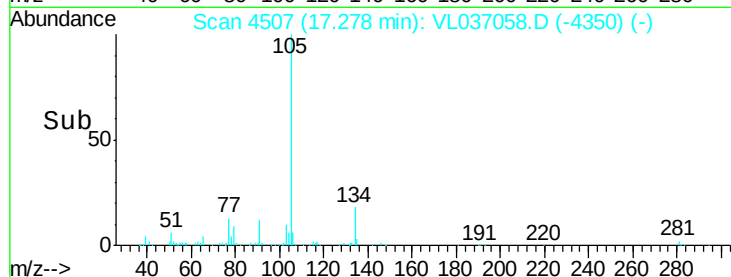
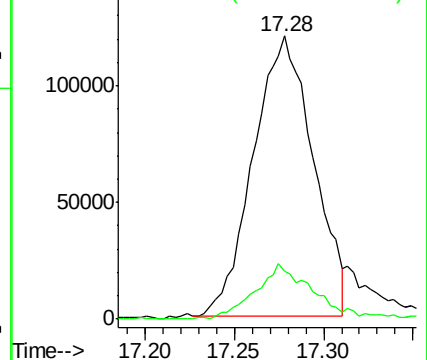
MMDadoda

5/27/2021 10:31:29 AM



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: 9.311 ppbv

RT: 14.39 min Scan# 3610

Delta R.T. -0.00 min

Lab File: VL037058.D

Acq: 25 May 2021 13:22

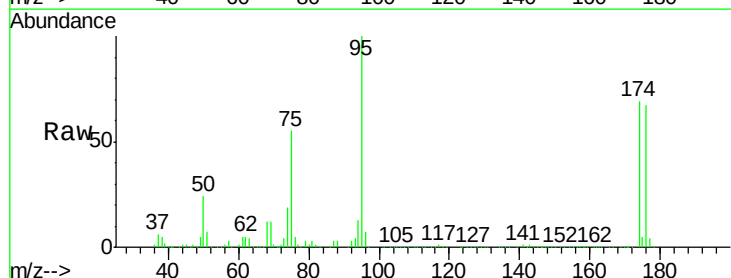
Tgt Ion: 95 Resp: 2128166

Ion Ratio Lower Upper

95 100

174 77.7 58.4 87.6

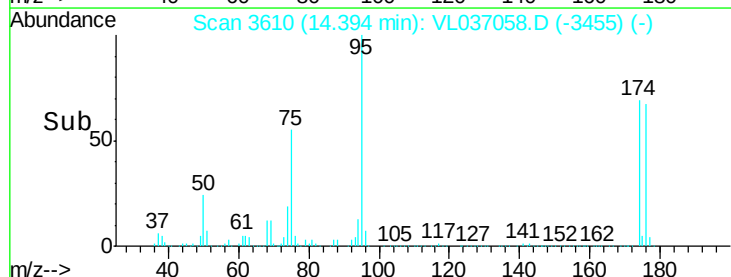
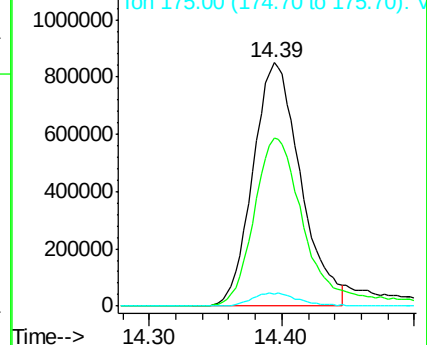
175 5.6 4.4 6.6

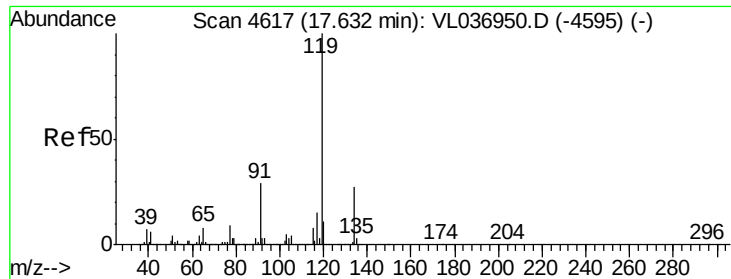


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





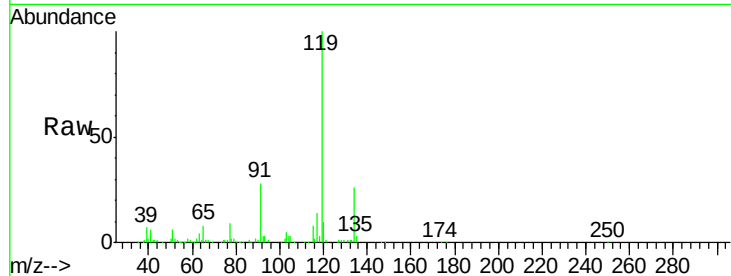
#69  
p-Isopropyltoluene  
Concen: 0.482 ppbv  
RT: 17.64 min Scan# 4619  
Delta R.T. 0.01 min  
Lab File: VL037058.D  
Acq: 25 May 2021 13:22

Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT2-2021

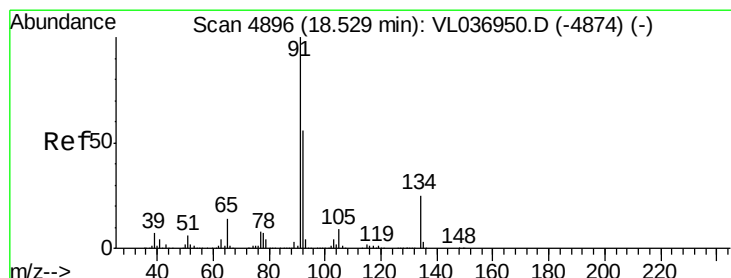
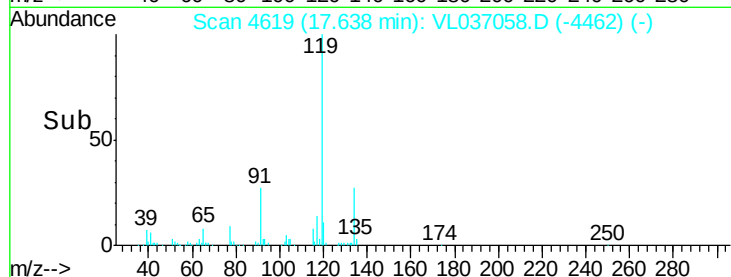
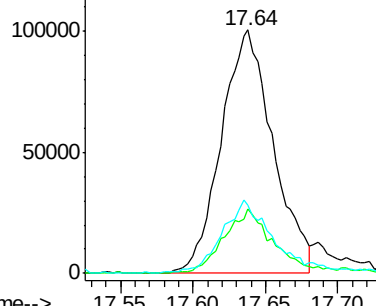
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 119     | 100   | 248334 |       |       |
| 134     | 27.1  | 21.2   | 31.8  |       |
| 91      | 31.2  | 22.2   | 33.4  |       |

Manual Integrations  
APPROVED

MMDadoda  
5/27/2021 10:31:29 AM

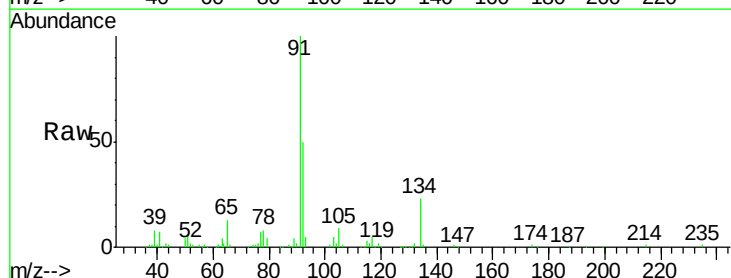


Abundance Ion 119.10 (118.80 to 119.80): V  
Ion 134.20 (133.90 to 134.90): V  
Ion 91.10 (90.80 to 91.80): V

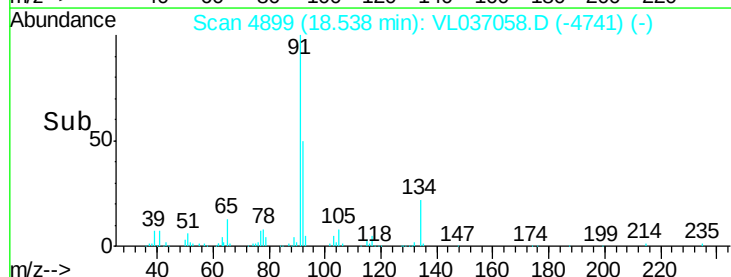
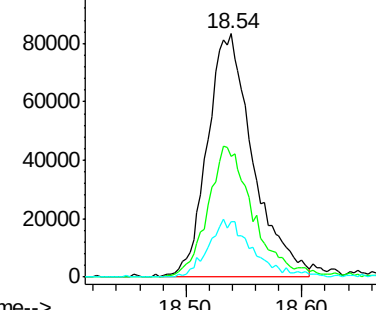


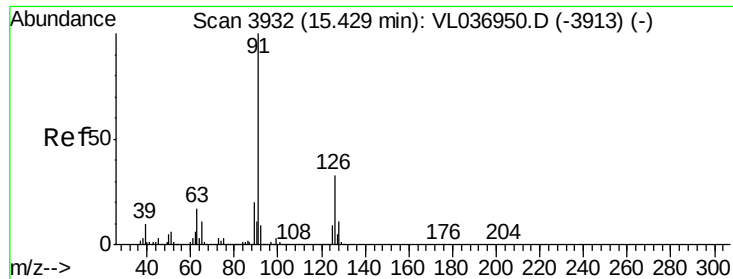
#70  
n-Butylbenzene  
Concen: 0.467 ppbv  
RT: 18.54 min Scan# 4899  
Delta R.T. 0.01 min  
Lab File: VL037058.D  
Acq: 25 May 2021 13:22

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 91      | 100   | 228218 |       |       |
| 92      | 54.5  | 44.6   | 66.8  |       |
| 134     | 22.9  | 20.2   | 30.2  |       |



Abundance Ion 91.10 (90.80 to 91.80): VL0  
Ion 92.10 (91.80 to 92.80): VL0  
Ion 134.20 (133.90 to 134.90): V





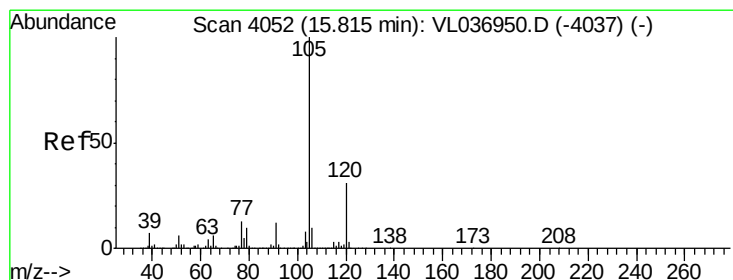
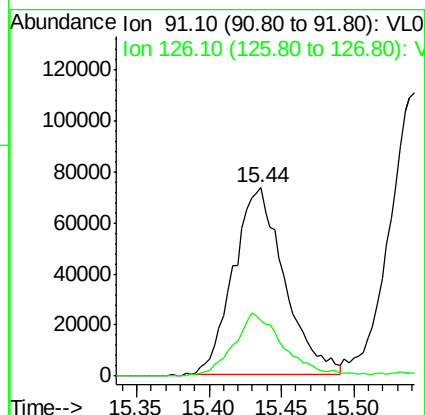
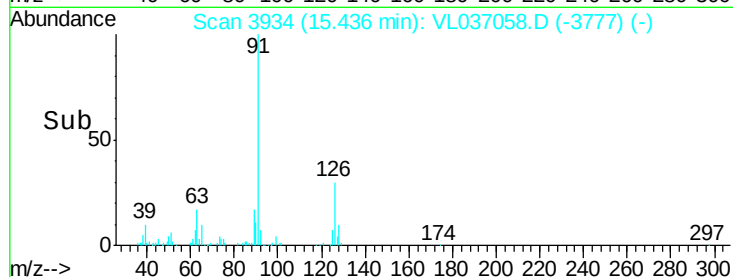
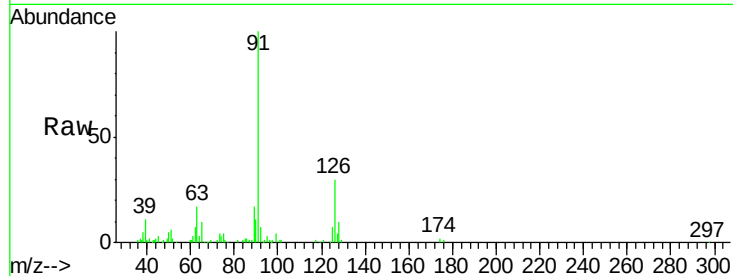
#71  
 2-Chlorotoluene  
 Concen: 0.506 ppbv  
 RT: 15.44 min Scan# 3934  
 Delta R.T. 0.01 min  
 Lab File: VL037058.D  
 Acq: 25 May 2021 13:22

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL-AIR-03-QT2-2021

Tgt Ion: 91 Resp: 177876  
 Ion Ratio Lower Upper  
 91 100  
 126 33.7 13.1 52.5

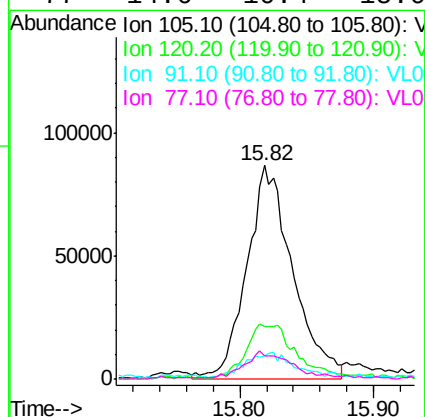
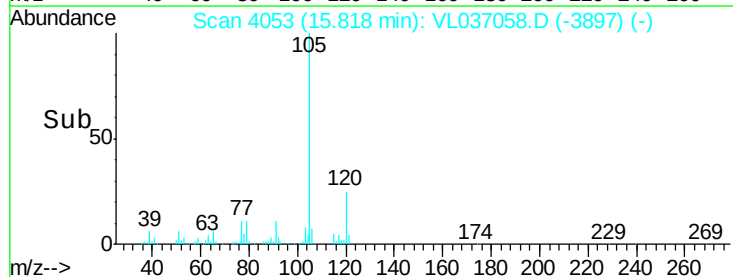
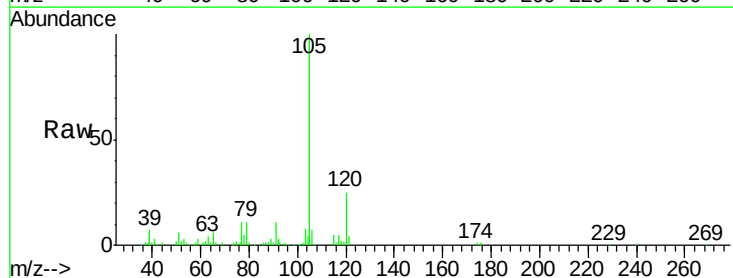
Manual Integrations  
 APPROVED

MMDadoda  
 5/27/2021 10:31:29 AM

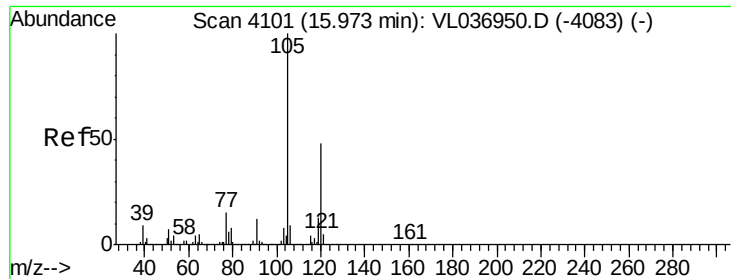


#72  
 4-Ethyltoluene  
 Concen: 0.514 ppbv m  
 RT: 15.82 min Scan# 4053  
 Delta R.T. 0.00 min  
 Lab File: VL037058.D  
 Acq: 25 May 2021 13:22

Tgt Ion: 105 Resp: 206569  
 Ion Ratio Lower Upper  
 105 100  
 120 27.6 24.6 37.0  
 91 0.0 9.8 14.6#  
 77 14.6 10.4 15.6







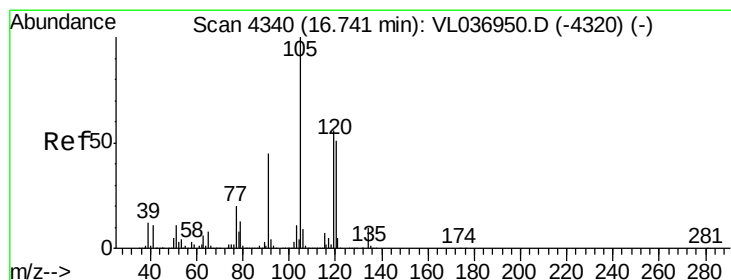
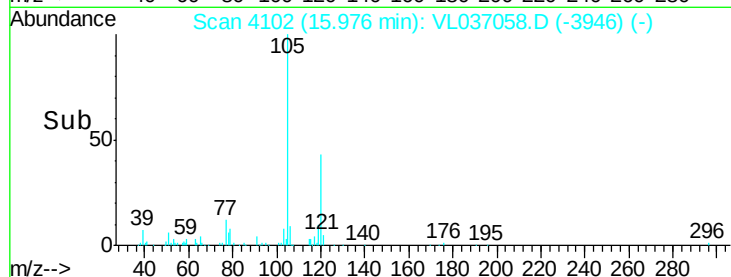
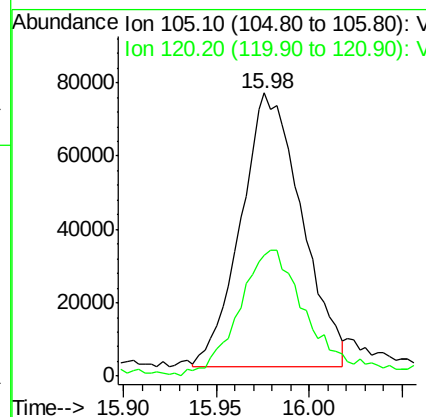
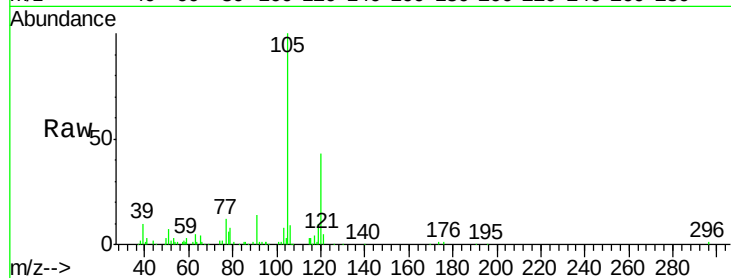
#73  
 1,3,5-Trimethylbenzene  
 Concen: 0.451 ppbv  
 RT: 15.98 min Scan# 4102  
 Delta R.T. 0.00 min  
 Lab File: VL037058.D  
 Acq: 25 May 2021 13:22

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL-AIR-03-QT2-2021

Tgt Ion:105 Resp: 170288  
 Ion Ratio Lower Upper  
 105 100  
 120 42.3 38.6 58.0

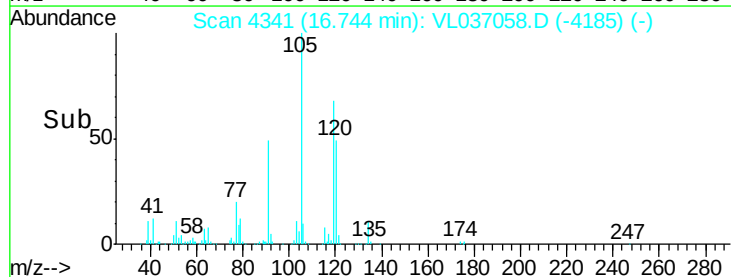
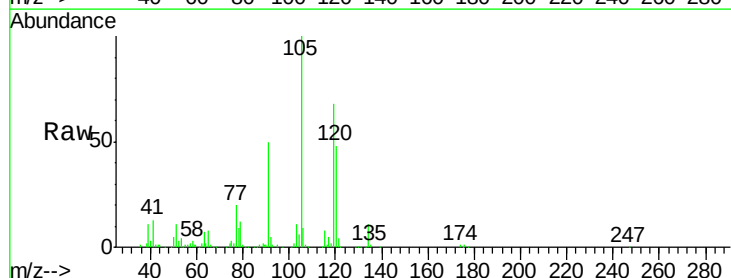
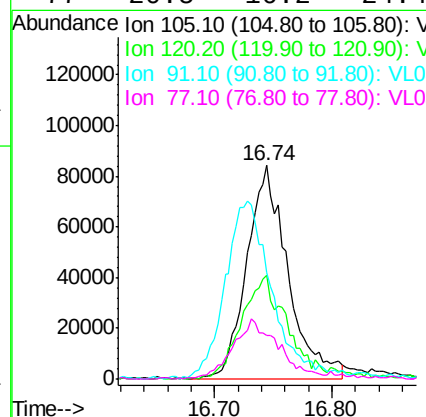
Manual Integrations  
 APPROVED

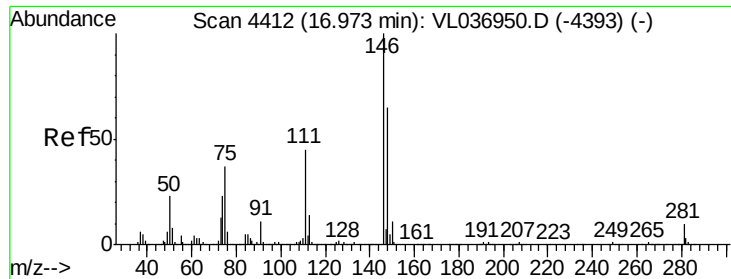
MMDadoda  
 5/27/2021 10:31:29 AM



#74  
 1,2,4-Trimethylbenzene  
 Concen: 0.522 ppbv m  
 RT: 16.74 min Scan# 4341  
 Delta R.T. 0.00 min  
 Lab File: VL037058.D  
 Acq: 25 May 2021 13:22

Tgt Ion:105 Resp: 203581  
 Ion Ratio Lower Upper  
 105 100  
 120 48.4 40.6 61.0  
 91 49.9 37.4 56.0  
 77 20.5 16.2 24.4





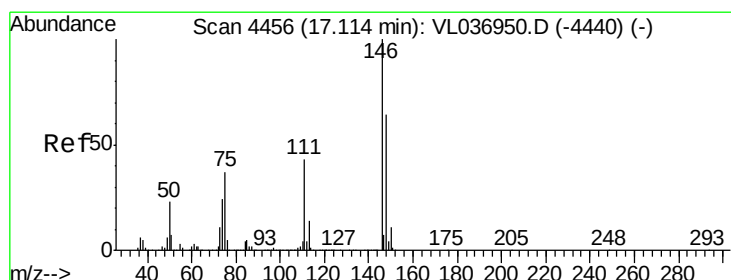
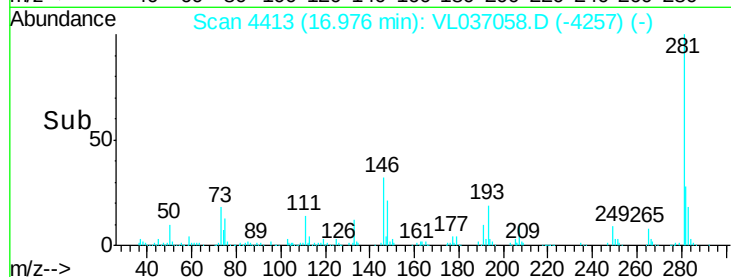
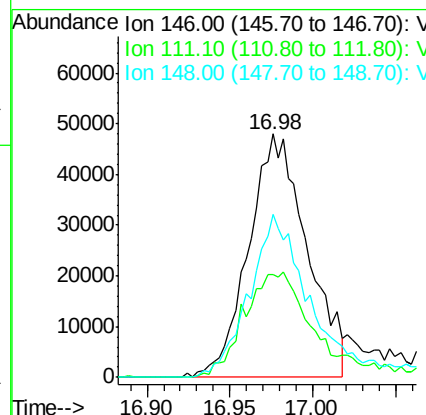
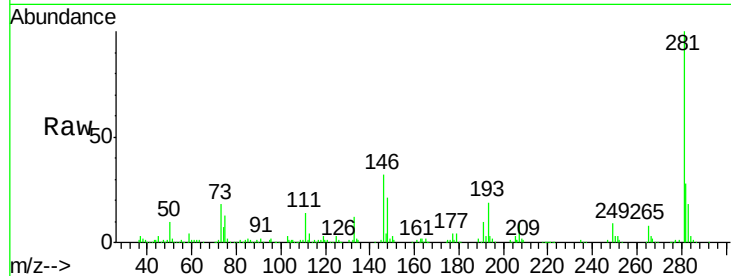
#75  
 1,3-Dichlorobenzene  
 Concen: 0.495 ppbv  
 RT: 16.98 min Scan# 4413  
 Delta R.T. 0.00 min  
 Lab File: VL037058.D  
 Acq: 25 May 2021 13:22

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL-AIR-03-QT2-2021

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 52.0  | 22.2  | 66.6  |
| 148     | 71.0  | 32.3  | 96.8  |

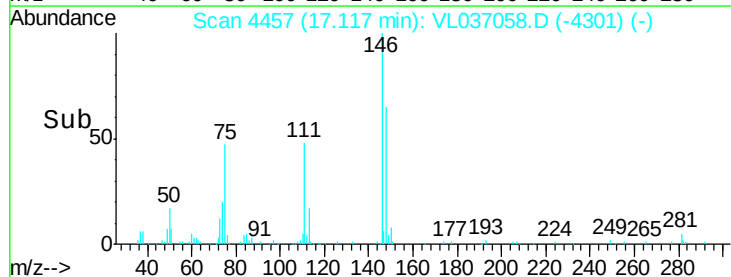
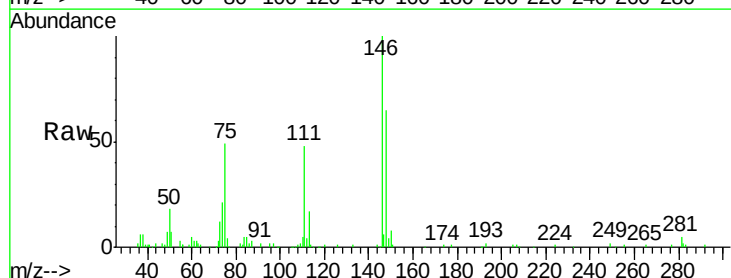
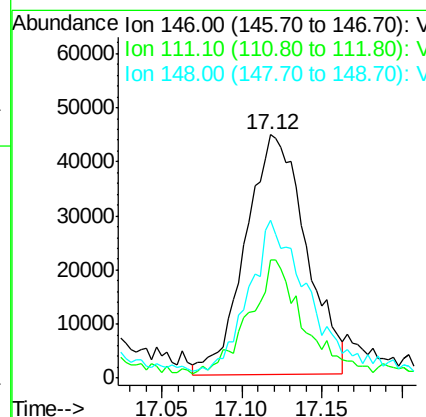
Manual Integrations  
 APPROVED

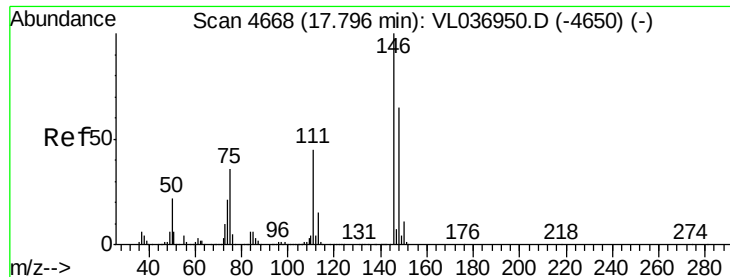
MMDadoda  
 5/27/2021 10:31:29 AM



#76  
 1,4-Dichlorobenzene  
 Concen: 0.480 ppbv  
 RT: 17.12 min Scan# 4457  
 Delta R.T. 0.00 min  
 Lab File: VL037058.D  
 Acq: 25 May 2021 13:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 50.6  | 22.6  | 67.7  |
| 148     | 74.8  | 33.5  | 100.5 |





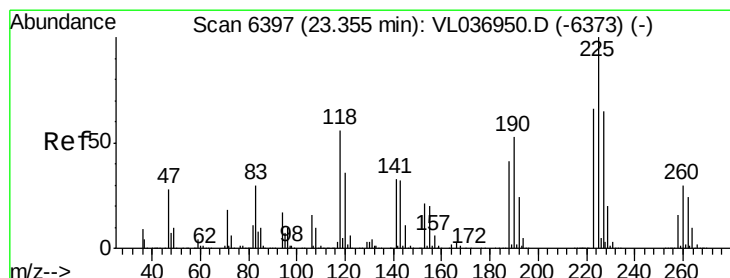
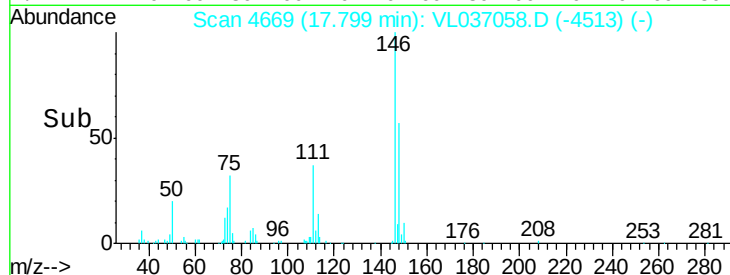
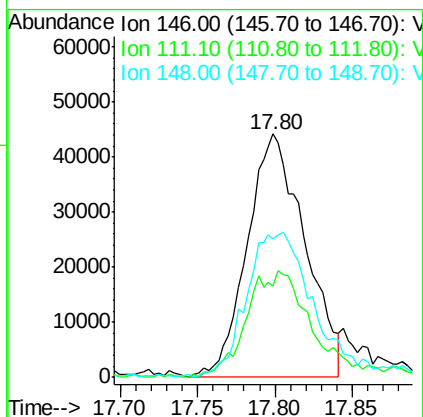
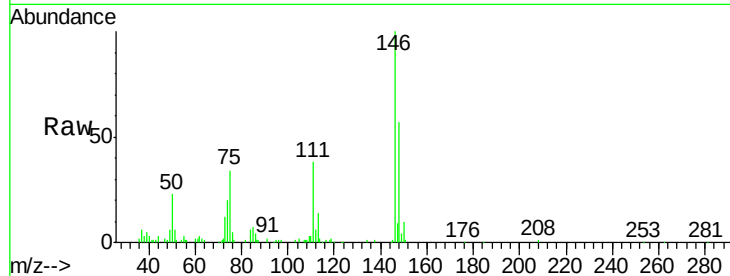
#77  
 1,2-Dichlorobenzene  
 Concen: 0.476 ppbv  
 RT: 17.80 min Scan# 4669  
 Delta R.T. 0.00 min  
 Lab File: VL037058.D  
 Acq: 25 May 2021 13:22

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL-AIR-03-QT2-2021

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 53.0  | 23.1  | 69.2  |
| 148     | 72.0  | 32.5  | 97.4  |

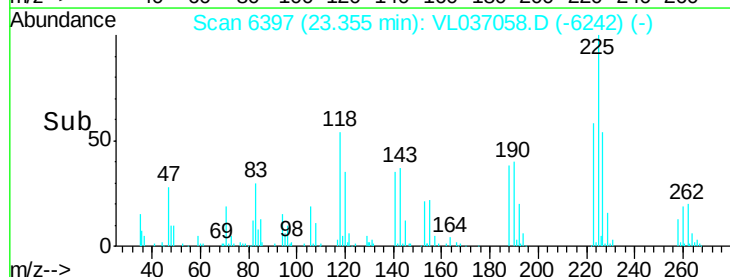
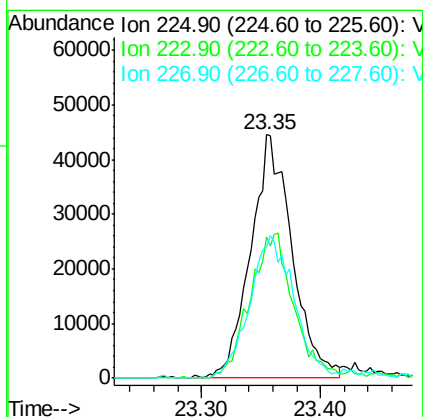
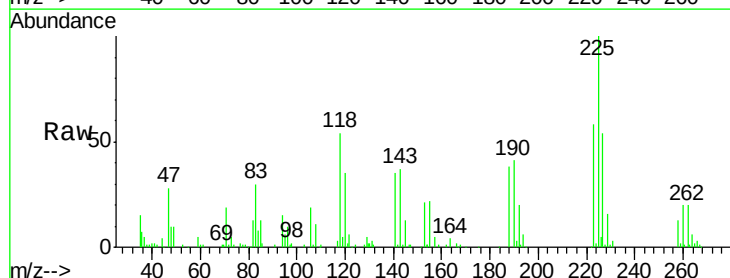
Manual Integrations  
 APPROVED

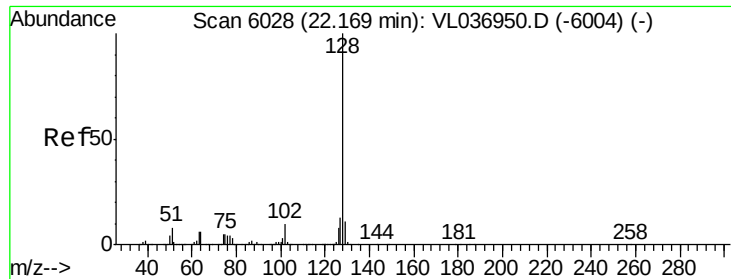
MMDadoda  
 5/27/2021 10:31:29 AM



#78  
 Hexachloro-1,3-Butadiene  
 Concen: 0.560 ppbv  
 RT: 23.35 min Scan# 6397  
 Delta R.T. -0.00 min  
 Lab File: VL037058.D  
 Acq: 25 May 2021 13:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 0.0   | 51.9  | 77.9# |
| 227     | 64.7  | 51.8  | 77.6  |





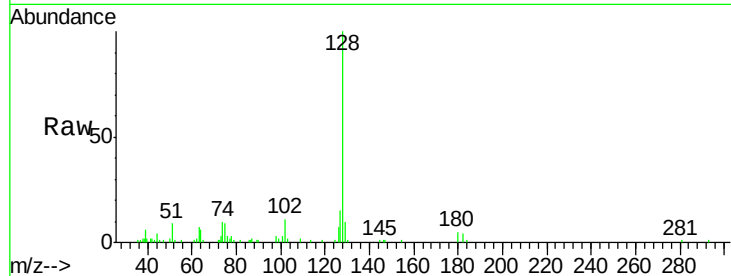
#79  
Naphthalene  
Concen: 0.288 ppbv m  
RT: 22.18 min Scan# 6032  
Delta R.T. 0.01 min  
Lab File: VL037058.D  
Acq: 25 May 2021 13:22

Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT2-2021

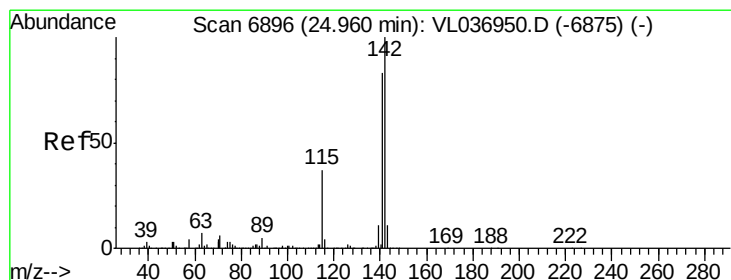
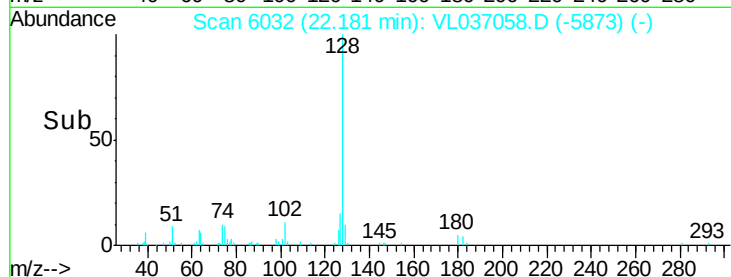
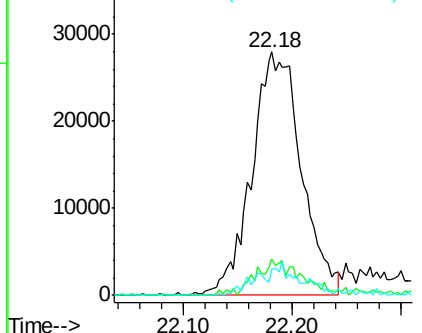
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 128     | 100   | 88121 |       |       |
| 127     | 14.7  | 10.4  | 15.6  |       |
| 129     | 10.4  | 9.0   | 13.6  |       |

Manual Integrations  
APPROVED

MMDadoda  
5/27/2021 10:31:29 AM

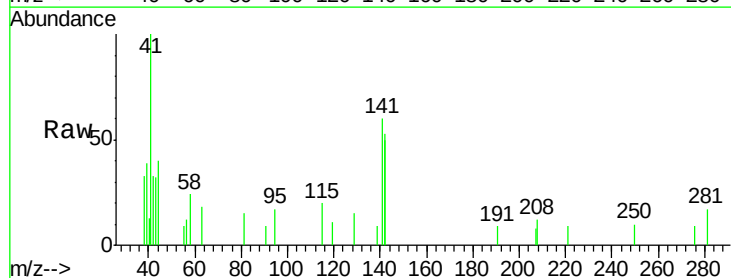


Abundance Ion 128.10 (127.80 to 128.80): V  
Ion 127.10 (126.80 to 127.80): V  
Ion 129.10 (128.80 to 129.80): V

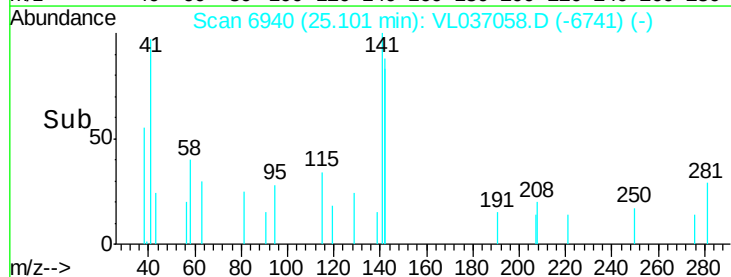
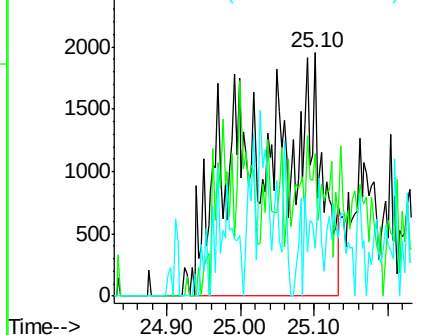


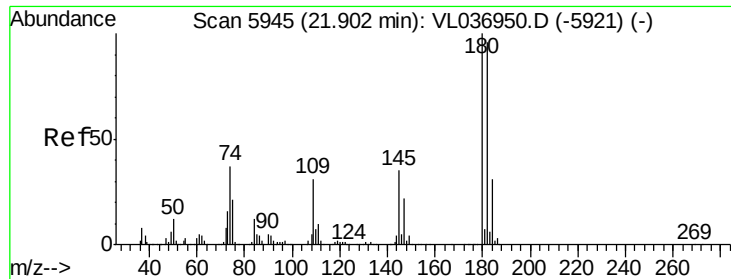
#80  
Naphthalene, 2-methyl-  
Concen: 0.184 ppbv m  
RT: 25.10 min Scan# 6940  
Delta R.T. 0.14 min  
Lab File: VL037058.D  
Acq: 25 May 2021 13:22

| Tgt Ion | Ratio | Resp  | Lower  | Upper |
|---------|-------|-------|--------|-------|
| 142     | 100   | 12231 |        |       |
| 141     | 14.3  | 69.3  | 103.9# |       |
| 115     | 0.0   | 29.1  | 43.7#  |       |



Abundance Ion 142.00 (141.70 to 142.70): V  
Ion 141.00 (140.70 to 141.70): V  
Ion 115.00 (114.70 to 115.70): V





#81  
 1,2,4-Trichlorobenzene  
 Concen: 0.368 ppbv m  
 RT: 21.91 min Scan# 5948  
 Delta R.T. 0.01 min  
 Lab File: VL037058.D  
 Acq: 25 May 2021 13:22

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL-AIR-03-QT2-2021

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 180     | 100   |       |        |
| 182     | 0.0   | 81.7  | 122.5# |
| 184     | 0.0   | 24.9  | 37.3#  |

Manual Integrations  
 APPROVED

MMDadoda  
 5/27/2021 10:31:29 AM

