

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081921\  
 Data File : VL037513.D  
 Acq On : 20 Aug 2021 8:43  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleID :  
 VSTDCCC010EC

Manual Integrations  
 APPROVED

MMDadoda  
 8/20/2021 6:31:46 PM

Quant Time: Aug 20 10:48:10 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Aug 1  
 QLast Update : Mon Aug 16 14:55:18 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.67  | 49   | 1420198  | 10.00 | ppbv  | 0.02     |
| 33) 1,4-Difluorobenzene | 7.18  | 114  | 4236077  | 10.00 | ppbv  | 0.02     |
| 55) Chlorobenzene-d5    | 12.09 | 117  | 4052553m | 10.00 | ppbv  | 0.03     |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 68) 1-Bromo-4-Fluorobenzene | 14.42  | 95    | 2709512  | 9.41     | ppbv | 0.02   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 94.10% |

| Target Compounds               |      |     |         |        | Ovalue     |
|--------------------------------|------|-----|---------|--------|------------|
| 2) Dichlorodifluoromethane     | 3.05 | 85  | 1783899 | 7.828  | ppbv 97    |
| 3) Chlorodifluoromethane       | 2.99 | 51  | 2607097 | 9.587  | ppbv 99    |
| 4) Chloromethane               | 3.14 | 50  | 983634  | 10.122 | ppbv 94    |
| 5) Vinyl Chloride              | 3.26 | 62  | 956052  | 9.603  | ppbv 95    |
| 6) Bromomethane                | 3.48 | 94  | 530157  | 9.721  | ppbv 99    |
| 7) Chloroethane                | 3.56 | 64  | 342570  | 10.081 | ppbv # 87  |
| 8) Dichlorotetrafluoroethane   | 3.19 | 85  | 2213634 | 9.410  | ppbv 100   |
| 9) Propene                     | 3.01 | 41  | 975916  | 10.030 | ppbv 99    |
| 10) Heptane                    | 8.12 | 43  | 2393673 | 10.688 | ppbv 98    |
| 11) Trichlorofluoromethane     | 3.95 | 101 | 2050453 | 9.586  | ppbv 99    |
| 12) 1,1,2-Trichlorotrifluoroet | 4.49 | 101 | 1499449 | 9.553  | ppbv 99    |
| 13) Ethanol                    | 3.61 | 45  | 101755  | 10.747 | ppbv 88    |
| 14) Bromoethene                | 3.74 | 108 | 695455  | 9.760  | ppbv 97    |
| 15) Acetone                    | 3.85 | 43  | 1229372 | 8.506  | ppbv 100   |
| 16) 1,3-Butadiene              | 3.33 | 39  | 960155  | 10.356 | ppbv 98    |
| 17) tert-Butyl alcohol         | 4.29 | 59  | 1362067 | 10.316 | ppbv 99    |
| 18) 1,1-Dichloroethene         | 4.29 | 96  | 694792  | 9.745  | ppbv 94    |
| 19) Isopropyl Alcohol          | 3.97 | 45  | 820736  | 9.912  | ppbv # 95  |
| 20) Methylene Chloride         | 4.35 | 84  | 582309  | 8.047  | ppbv 96    |
| 21) Allyl Chloride             | 4.41 | 41  | 1144683 | 9.751  | ppbv 98    |
| 22) trans-1,2-Dichloroethene   | 4.89 | 96  | 701630  | 9.864  | ppbv 97    |
| 23) Vinyl Acetate              | 5.08 | 43  | 2453498 | 11.516 | ppbv 99    |
| 24) 1,1-Dichloroethane         | 5.01 | 63  | 1528803 | 9.894  | ppbv 100   |
| 25) Ethyl Acetate              | 5.68 | 43  | 3636847 | 9.912  | ppbv 100   |
| 26) Hexane                     | 5.69 | 57  | 1755065 | 9.783  | ppbv 99    |
| 27) Carbon Disulfide           | 4.56 | 76  | 1660314 | 10.385 | ppbv 99    |
| 28) Methyl tert-Butyl Ether    | 5.04 | 73  | 1837915 | 10.667 | ppbv 100   |
| 29) Chloroform                 | 5.75 | 83  | 2482729 | 9.765  | ppbv 99    |
| 30) Cyclohexane                | 7.13 | 84  | 1487961 | 9.954  | ppbv 99    |
| 31) cis-1,2-Dichloroethene     | 5.55 | 61  | 1647488 | 10.147 | ppbv 98    |
| 32) 1,1,1-Trichloroethane      | 6.51 | 97  | 2344252 | 9.384  | ppbv 98    |
| 34) 2-Butanone                 | 5.25 | 43  | 1638251 | 10.087 | ppbv 98    |
| 35) Carbon Tetrachloride       | 7.02 | 117 | 2453766 | 9.801  | ppbv 99    |
| 36) Benzene                    | 6.89 | 78  | 3637921 | 10.216 | ppbv 99    |
| 37) 1,2-Dichloroethane         | 6.31 | 62  | 1751742 | 9.931  | ppbv 100   |
| 38) Trichloroethene            | 7.84 | 130 | 1433312 | 9.810  | ppbv 96    |
| 39) 1,2-Dichloropropane        | 7.62 | 63  | 1390051 | 10.159 | ppbv 97    |
| 40) 1,4-Dioxane                | 7.84 | 88  | 344025  | 10.262 | ppbv # 100 |
| 41) Tetrahydrofuran            | 6.05 | 42  | 875118  | 10.502 | ppbv 99    |
| 42) Bromodichloromethane       | 7.80 | 83  | 2634278 | 10.213 | ppbv 98    |
| 43) Methyl Methacrylate        | 8.02 | 69  | 1326861 | 10.691 | ppbv 100   |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081921\  
 Data File : VL037513.D  
 Acq On : 20 Aug 2021 8:43  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleID :  
 VSTDCCC010EC

Manual Integrations  
 APPROVED

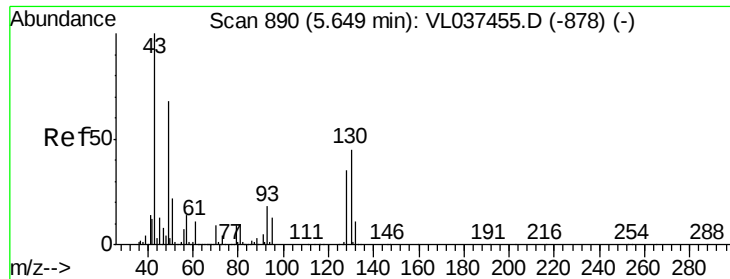
MMDadoda  
 8/20/2021 6:31:46 PM

Quant Time: Aug 20 10:48:10 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Aug 1  
 QLast Update : Mon Aug 16 14:55:18 2021  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.87  | 57   | 6053766  | 10.101 | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 9.28  | 75   | 1161580  | 12.432 | ppbv   | 100      |
| 46) cis-1,3-Dichloropropene   | 8.71  | 75   | 1498839  | 11.500 | ppbv   | 99       |
| 47) 1,1,2-Trichloroethane     | 9.48  | 97   | 1470722  | 9.947  | ppbv   | 98       |
| 48) Dibromochloromethane      | 10.30 | 129  | 2296105  | 10.791 | ppbv   | 99       |
| 49) Bromoform                 | 13.04 | 173  | 1904878  | 11.358 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.74  | 43   | 2456849  | 10.887 | ppbv   | 99       |
| 51) 2-Hexanone                | 10.14 | 43   | 1159528  | 11.171 | ppbv # | 100      |
| 52) Tetrachloroethene         | 11.23 | 164  | 1348909  | 9.244  | ppbv   | 97       |
| 53) Toluene                   | 9.81  | 91   | 4236489  | 10.419 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 10.61 | 107  | 2107681  | 10.211 | ppbv   | 97       |
| 56) 1,1,1,2-Tetrachloroethane | 12.13 | 131  | 1584028  | 9.380  | ppbv   | 99       |
| 57) Chlorobenzene             | 12.15 | 112  | 3019357  | 8.978  | ppbv   | 100      |
| 58) Ethyl Benzene             | 12.71 | 91   | 5381669  | 9.569  | ppbv   | 99       |
| 59) m/p-Xylene                | 13.00 | 91   | 9100386m | 18.666 | ppbv   |          |
| 60) o-Xylene                  | 13.70 | 91   | 4094322  | 8.998  | ppbv   | 98       |
| 61) Styrene                   | 13.53 | 104  | 2451490  | 10.371 | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.67 | 105  | 5871406  | 9.142  | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.68 | 83   | 3041123  | 8.992  | ppbv   | 99       |
| 64) n-propylbenzene           | 15.56 | 120  | 1574150  | 9.631  | ppbv   | 99       |
| 65) tert-Butylbenzene         | 16.75 | 119  | 5306598  | 9.073  | ppbv   | 99       |
| 66) Benzyl Chloride           | 16.99 | 91   | 377369m  | 14.263 | ppbv   |          |
| 67) sec-Butylbenzene          | 17.29 | 105  | 7414504  | 9.072  | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 17.65 | 119  | 6256104  | 9.394  | ppbv   | 99       |
| 70) n-Butylbenzene            | 18.55 | 91   | 6164169  | 9.685  | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 15.45 | 91   | 4320689  | 9.174  | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 15.84 | 105  | 5191943  | 9.592  | ppbv   | 100      |
| 73) 1,3,5-Trimethylbenzene    | 16.00 | 105  | 4603072  | 9.136  | ppbv   | 98       |
| 74) 1,2,4-Trimethylbenzene    | 16.77 | 105  | 4895050  | 9.143  | ppbv # | 90       |
| 75) 1,3-Dichlorobenzene       | 17.00 | 146  | 3036013  | 9.421  | ppbv   | 98       |
| 76) 1,4-Dichlorobenzene       | 17.14 | 146  | 2926342  | 9.014  | ppbv   | 97       |
| 77) 1,2-Dichlorobenzene       | 17.82 | 146  | 2970433  | 9.361  | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.37 | 225  | 2245685  | 8.511  | ppbv   | 99       |
| 79) Naphthalene               | 22.19 | 128  | 3971186  | 11.084 | ppbv   | 99       |
| 80) Naphthalene, 2-methyl-    | 24.97 | 142  | 1273411  | 12.758 | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 21.92 | 180  | 2365650  | 10.522 | ppbv   | 98       |

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





#1

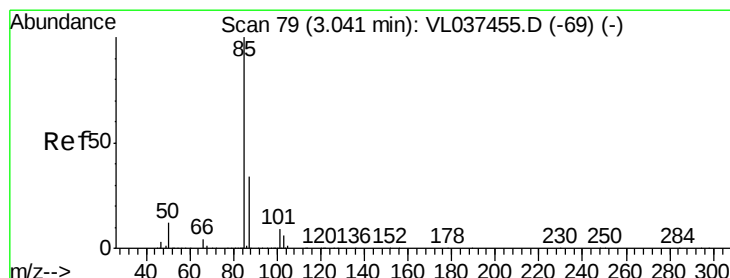
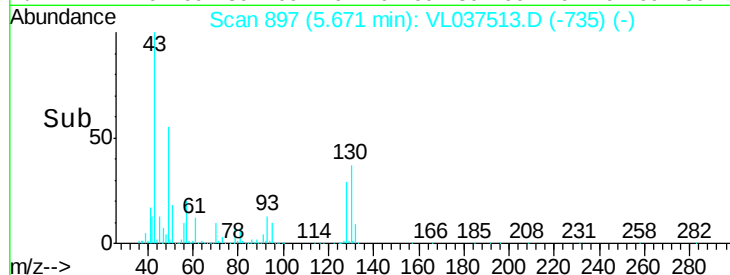
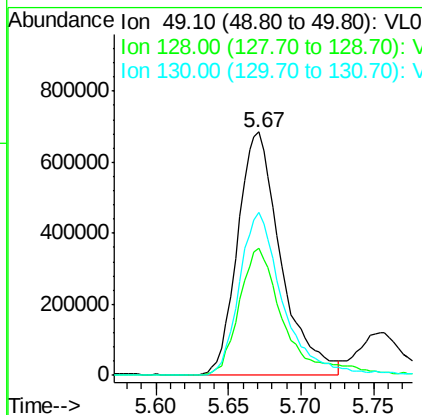
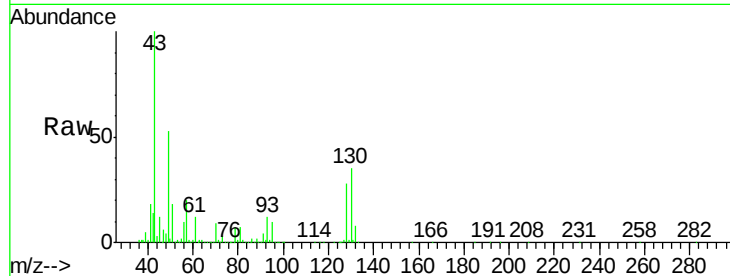
Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 5.67 min Scan# 897  
 Delta R.T. 0.02 min  
 Lab File: VL037513.D  
 Acq: 20 Aug 2021 8:43

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Tot Ion: 49 Resp: 1420198  
 Ion Ratio Lower Upper  
 49 100  
 128 54.8 27.5 82.4  
 130 68.7 34.0 101.8

Manual Integrations  
 APPROVED

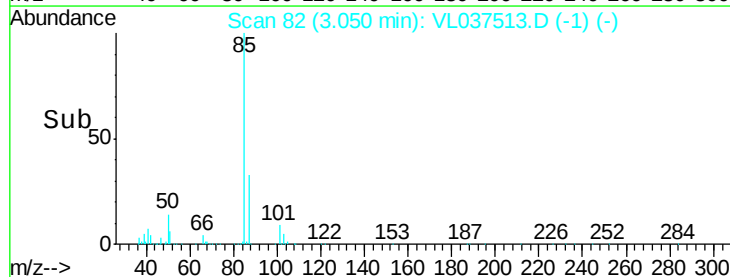
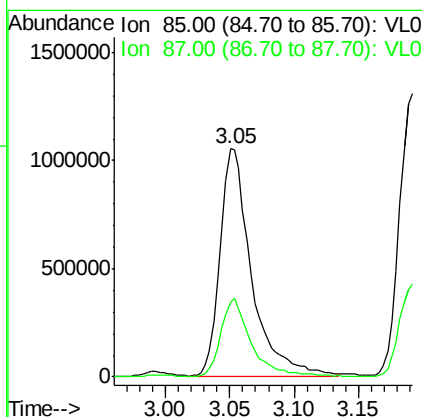
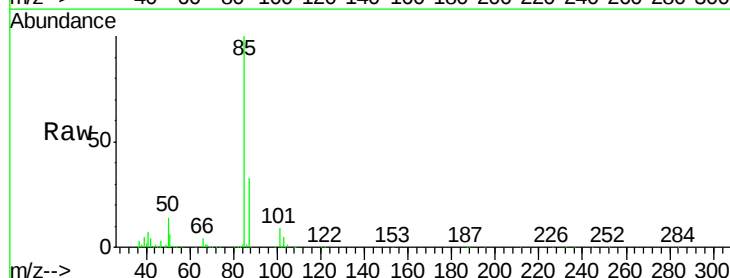
MMDadoda  
 8/20/2021 6:31:46 PM

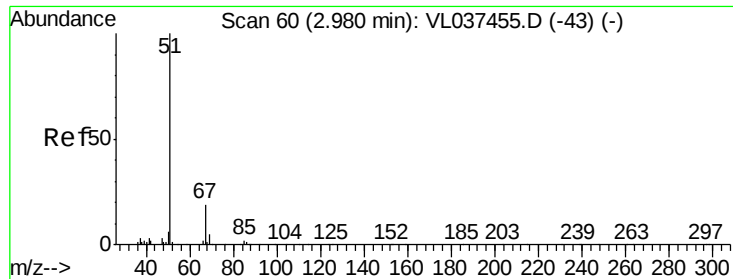


#2

Dichlorodifluoromethane  
 Concen: 7.828 ppbv  
 RT: 3.05 min Scan# 82  
 Delta R.T. 0.01 min  
 Lab File: VL037513.D  
 Acq: 20 Aug 2021 8:43

Tgt Ion: 85 Resp: 1783899  
 Ion Ratio Lower Upper  
 85 100  
 87 32.7 27.6 41.4





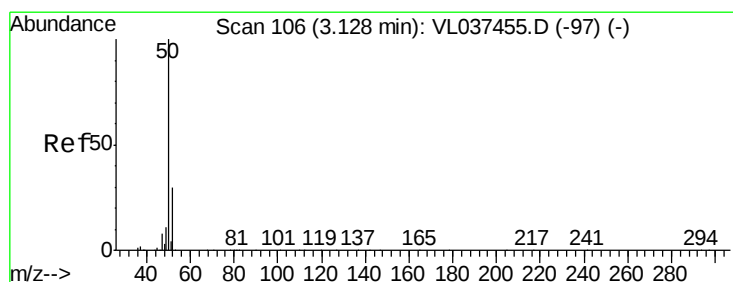
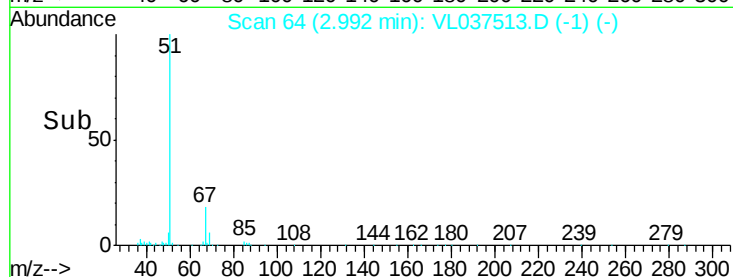
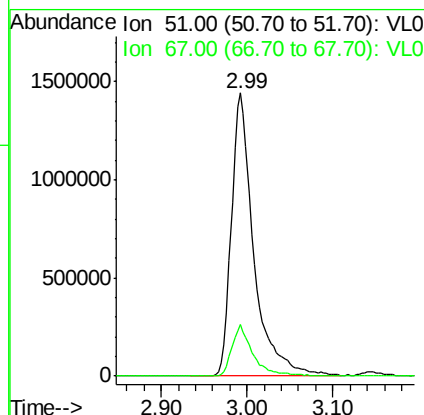
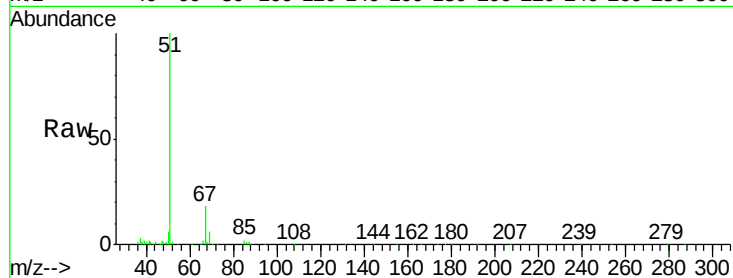
#3  
Chlorodifluoromethane  
Concen: 9.587 ppbv  
RT: 2.99 min Scan# 64  
Delta R.T. 0.01 min  
Lab File: VL037513.D  
Acq: 20 Aug 2021 8:43

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

Tot Ion: 51 Resp: 2607097  
Ion Ratio Lower Upper  
51 100  
67 17.2 14.2 21.2

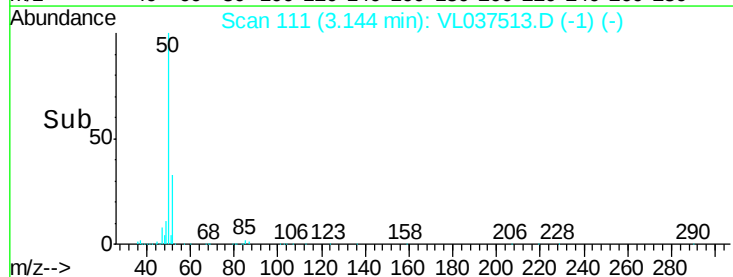
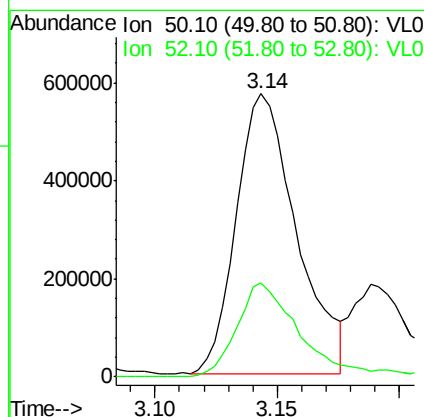
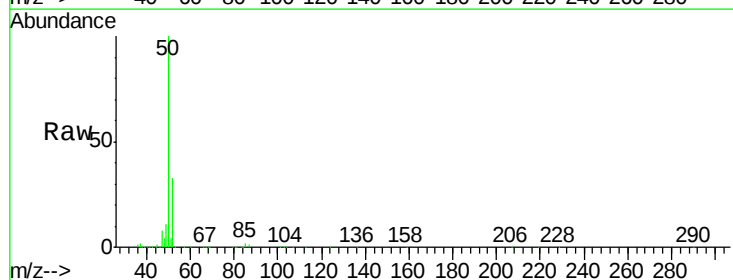
Manual Integrations  
APPROVED

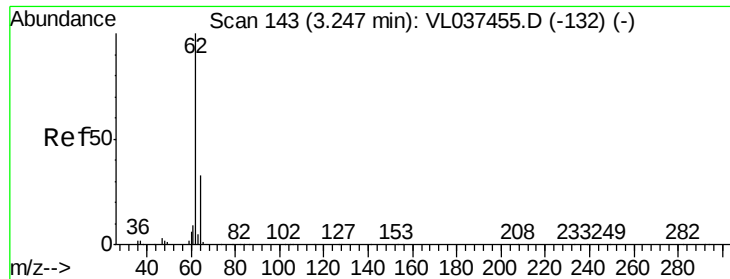
MMDadoda  
8/20/2021 6:31:46 PM



#4  
Chloromethane  
Concen: 10.122 ppbv  
RT: 3.14 min Scan# 111  
Delta R.T. 0.02 min  
Lab File: VL037513.D  
Acq: 20 Aug 2021 8:43

Tgt Ion: 50 Resp: 983634  
Ion Ratio Lower Upper  
50 100  
52 33.5 24.0 36.0





#5

Vinyl Chloride

Concen: 9.603 ppbv

RT: 3.26 min Scan# 148

Delta R.T. 0.02 min

Lab File: VL037513.D

Acq: 20 Aug 2021 8:43

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 956052

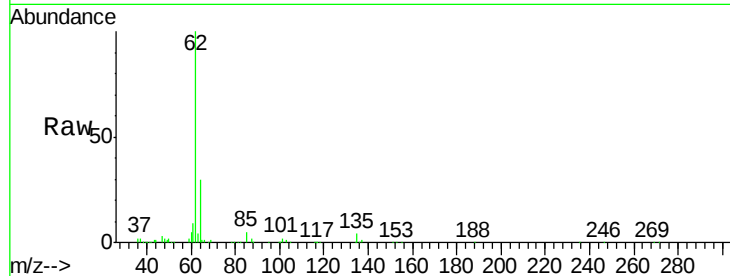
Ion Ratio Lower Upper

62 100

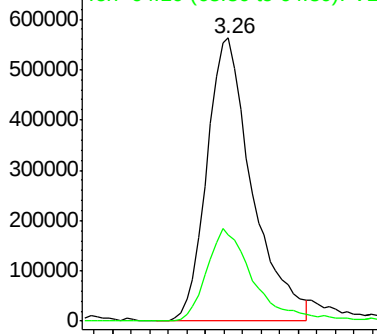
64 30.4 26.5 39.7

Manual Integrations  
APPROVED

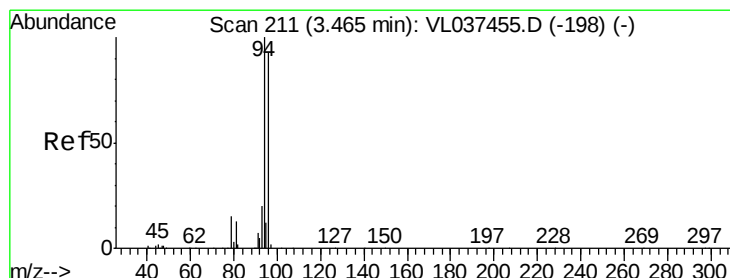
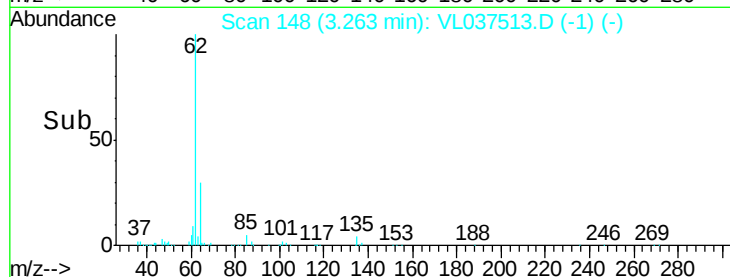
MMDadoda  
8/20/2021 6:31:46 PM



Abundance Ion 62.10 (61.80 to 62.80): VL0  
Ion 64.10 (63.80 to 64.80): VL0



Time-->



#6

Bromomethane

Concen: 9.721 ppbv

RT: 3.48 min Scan# 215

Delta R.T. 0.01 min

Lab File: VL037513.D

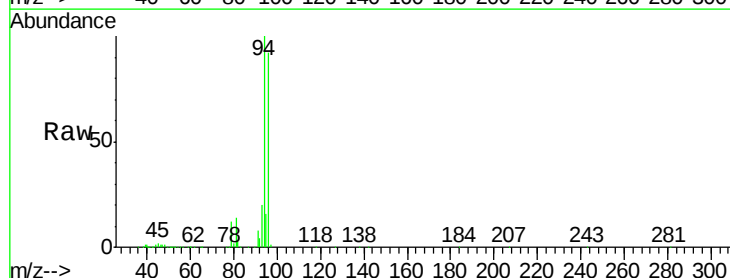
Acq: 20 Aug 2021 8:43

Tgt Ion: 94 Resp: 530157

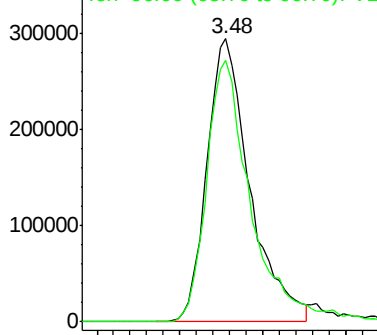
Ion Ratio Lower Upper

94 100

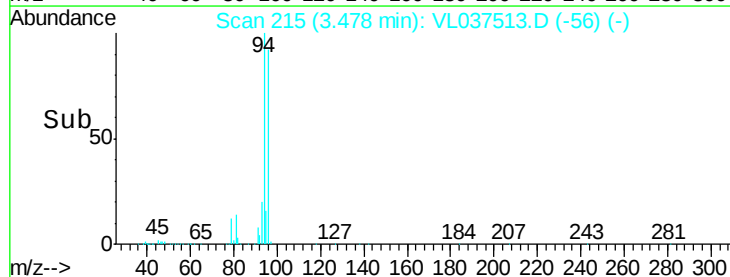
96 92.5 74.5 111.7

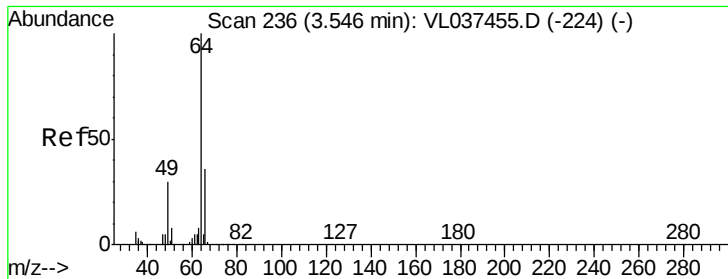


Abundance Ion 94.00 (93.70 to 94.70): VL0  
Ion 96.00 (95.70 to 96.70): VL0



Time-->





#7

Chloroethane

Concen: 10.081 ppbv

RT: 3.56 min Scan# 241

Delta R.T. 0.02 min

Lab File: VL037513.D

Acq: 20 Aug 2021 8:43

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 342570

Ion Ratio Lower Upper

64 100

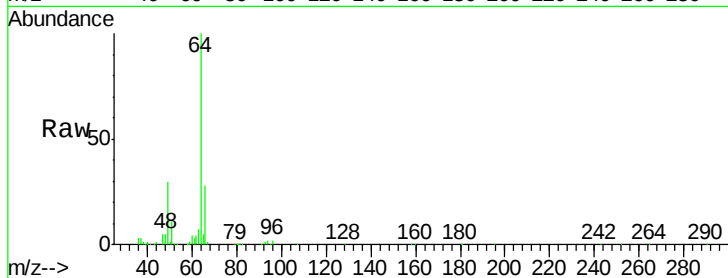
66 28.1 28.6 43.0#

Manual Integrations

APPROVED

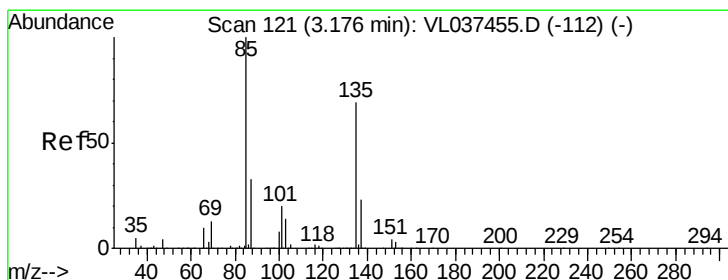
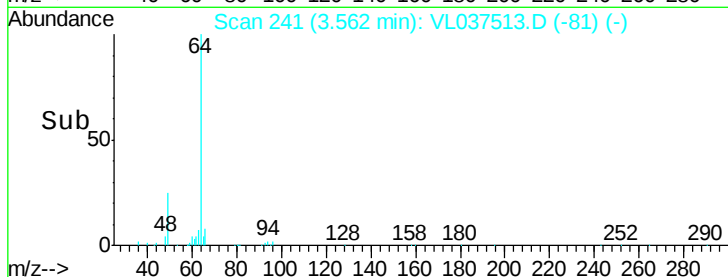
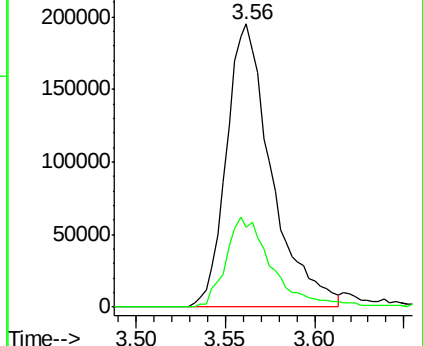
MMDadoda

8/20/2021 6:31:46 PM



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 9.410 ppbv

RT: 3.19 min Scan# 126

Delta R.T. 0.02 min

Lab File: VL037513.D

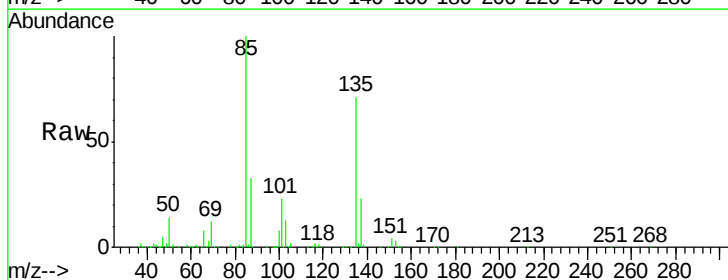
Acq: 20 Aug 2021 8:43

Tgt Ion: 85 Resp: 2213634

Ion Ratio Lower Upper

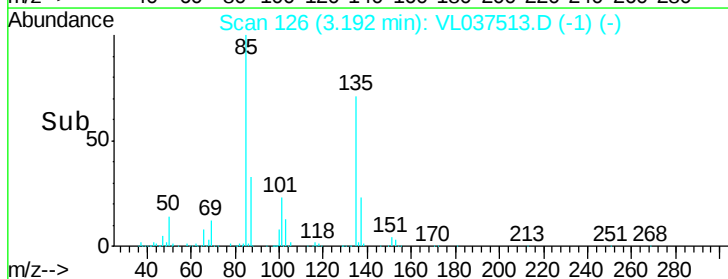
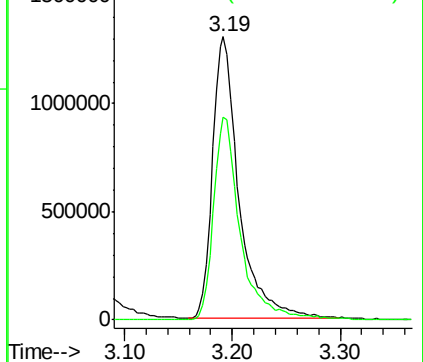
85 100

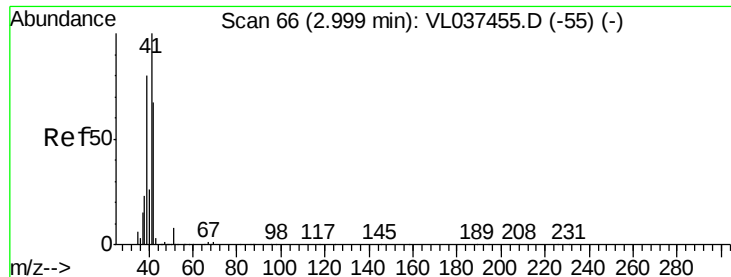
135 73.7 58.8 88.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 10.030 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.01 min

Lab File: VL037513.D

Acq: 20 Aug 2021 8:43

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 975916

Ion Ratio Lower Upper

41 100

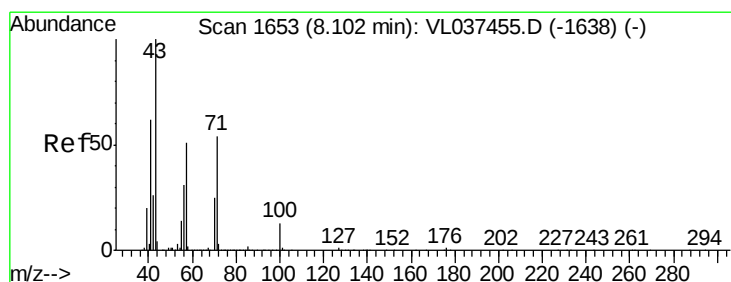
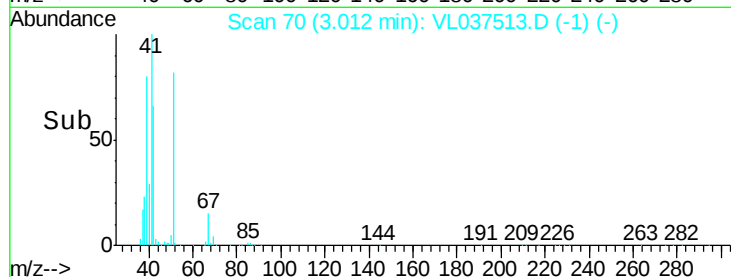
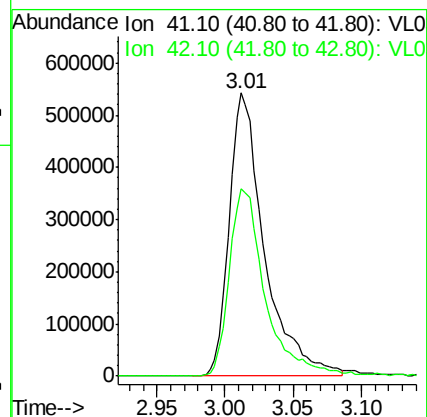
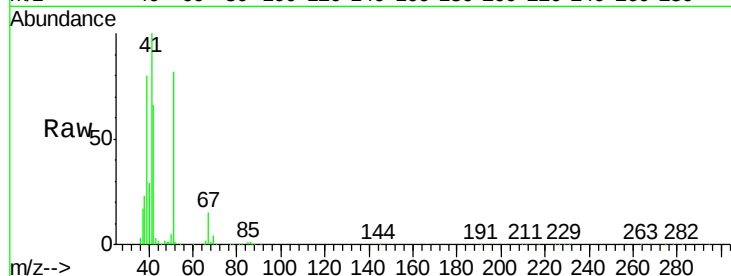
42 67.9 53.7 80.5

Manual Integrations

APPROVED

MMDadoda

8/20/2021 6:31:46 PM



#10

Heptane

Concen: 10.688 ppbv

RT: 8.12 min Scan# 1660

Delta R.T. 0.02 min

Lab File: VL037513.D

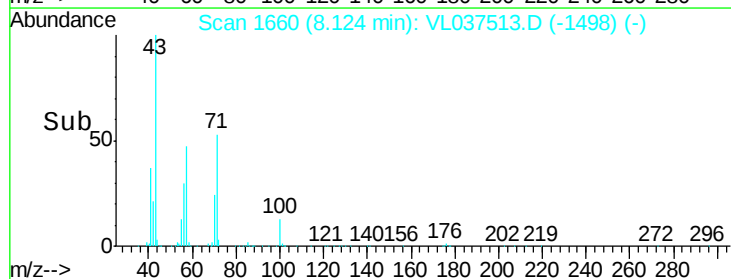
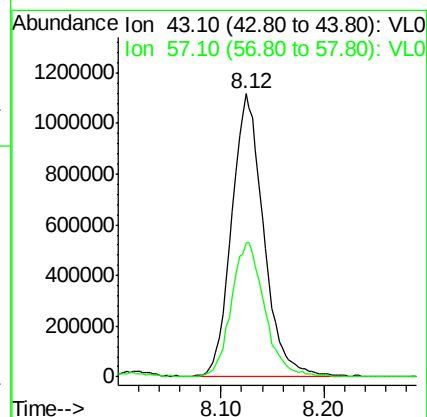
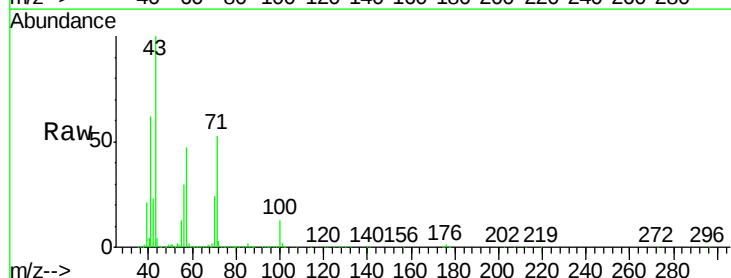
Acq: 20 Aug 2021 8:43

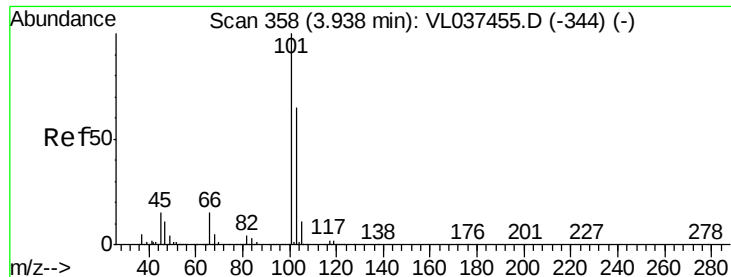
Tgt Ion: 43 Resp: 2393673

Ion Ratio Lower Upper

43 100

57 49.6 41.0 61.6





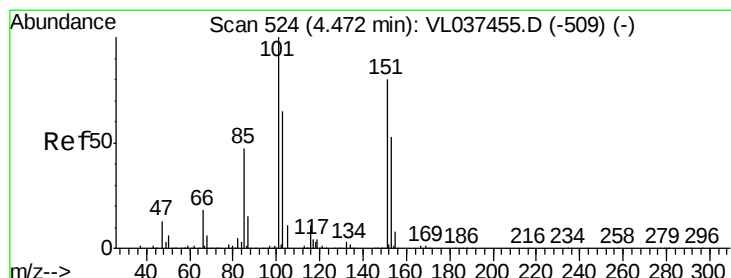
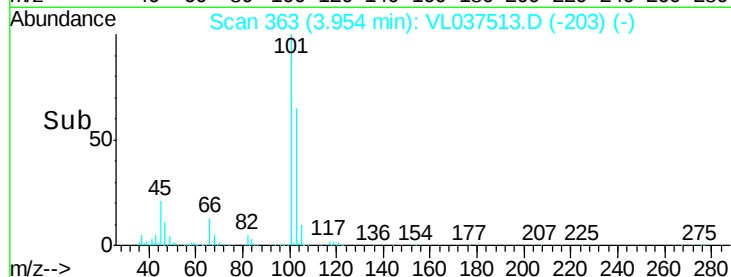
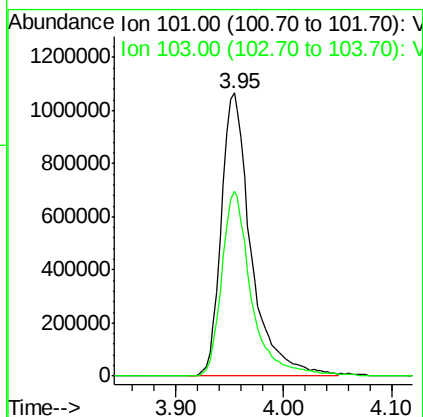
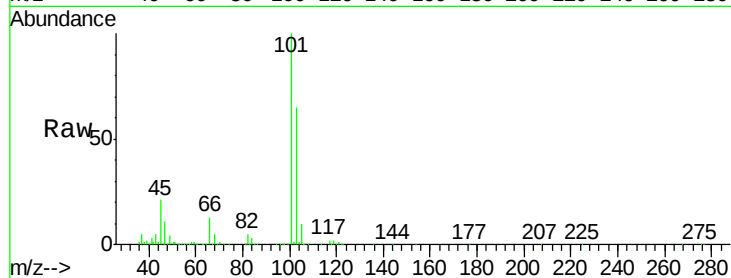
#11  
 Trichlorofluoromethane  
 Concen: 9.586 ppbv  
 RT: 3.95 min Scan# 363  
 Delta R.T. 0.02 min  
 Lab File: VL037513.D  
 Acq: 20 Aug 2021 8:43

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Tot Ion:101 Resp: 2050453  
 Ion Ratio Lower Upper  
 101 100  
 103 65.3 51.8 77.6

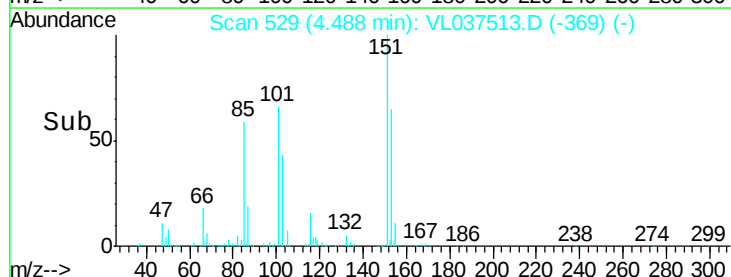
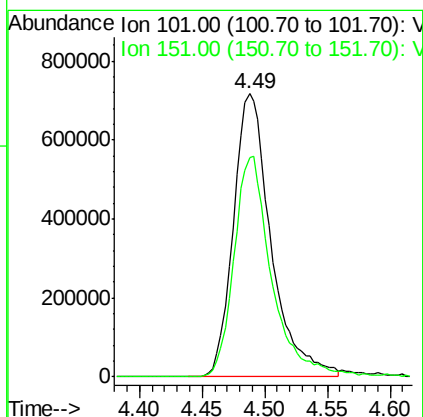
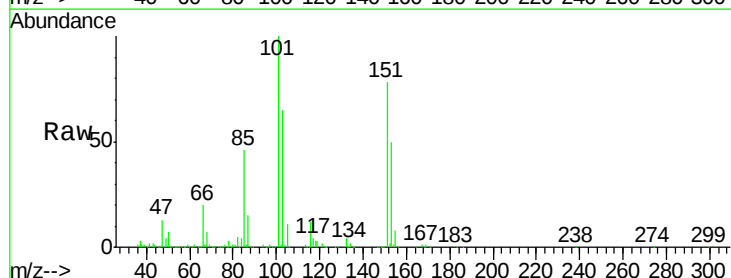
Manual Integrations  
 APPROVED

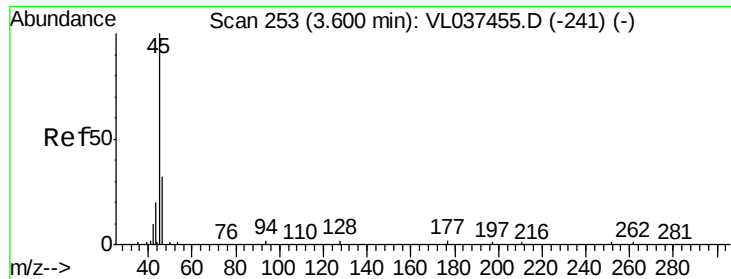
MMDadoda  
 8/20/2021 6:31:46 PM



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 9.553 ppbv  
 RT: 4.49 min Scan# 529  
 Delta R.T. 0.02 min  
 Lab File: VL037513.D  
 Acq: 20 Aug 2021 8:43

Tgt Ion:101 Resp: 1499449  
 Ion Ratio Lower Upper  
 101 100  
 151 78.6 63.7 95.5





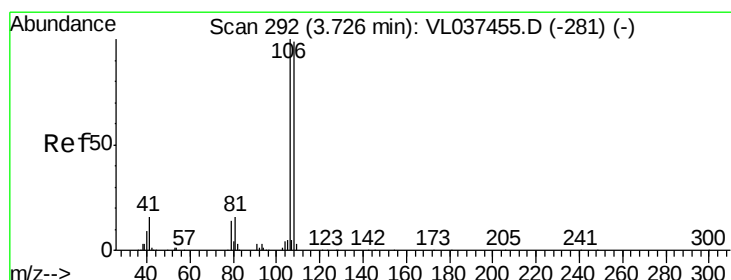
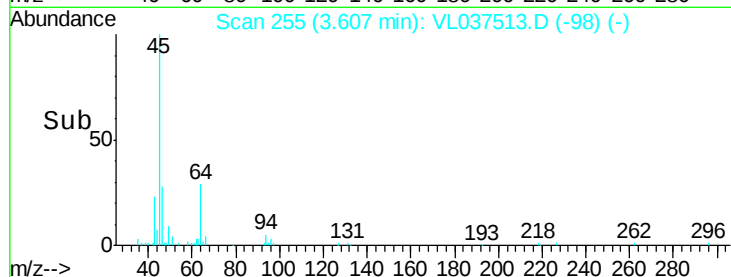
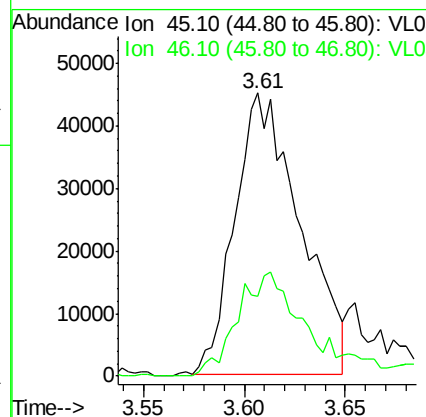
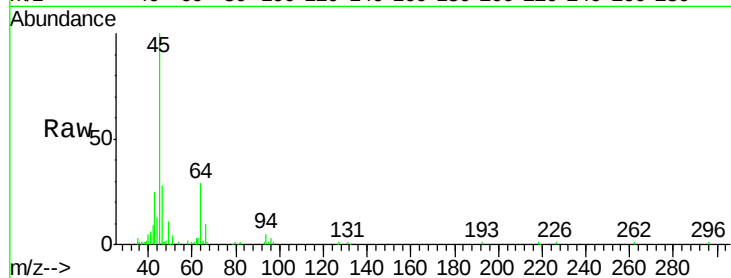
#13  
Ethanol  
Concen: 10.747 ppbv  
RT: 3.61 min Scan# 255  
Delta R.T. 0.01 min  
Lab File: VL037513.D  
Acq: 20 Aug 2021 8:43

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 45      | 100   |       |       |
| 46      | 42.4  | 14.1  | 56.5  |

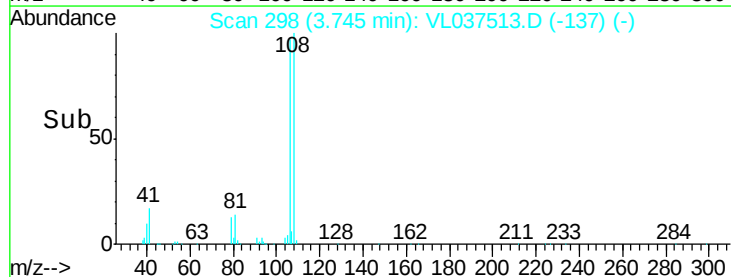
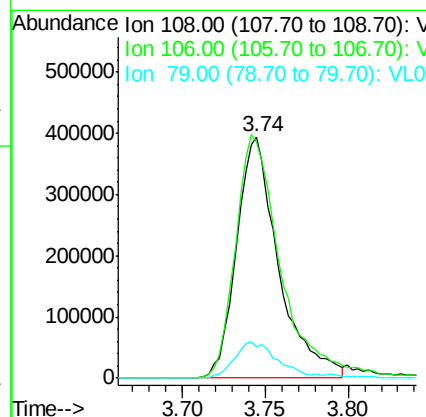
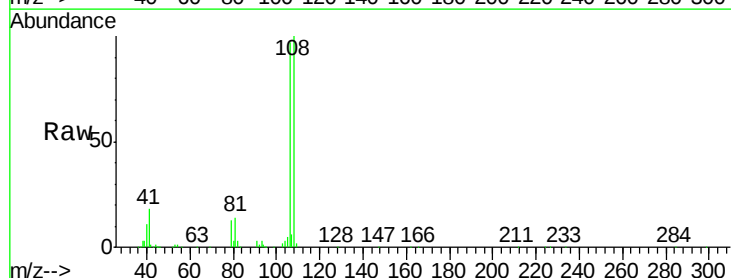
Manual Integrations  
APPROVED

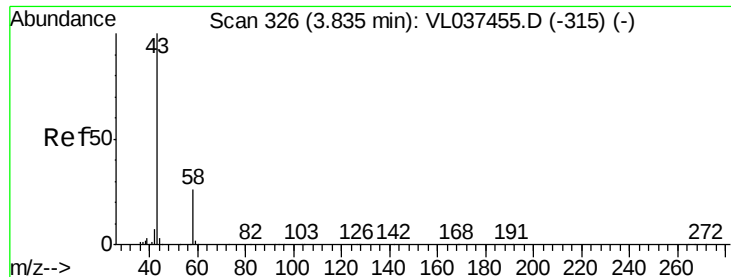
MMDadoda  
8/20/2021 6:31:46 PM



#14  
Bromoethene  
Concen: 9.760 ppbv  
RT: 3.74 min Scan# 298  
Delta R.T. 0.02 min  
Lab File: VL037513.D  
Acq: 20 Aug 2021 8:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 108     | 100   |       |       |
| 106     | 110.7 | 85.8  | 128.8 |
| 79      | 16.4  | 12.6  | 18.8  |





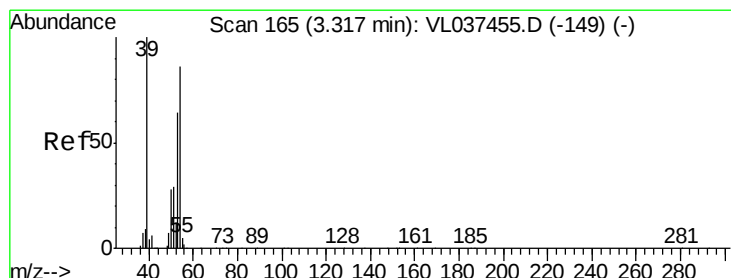
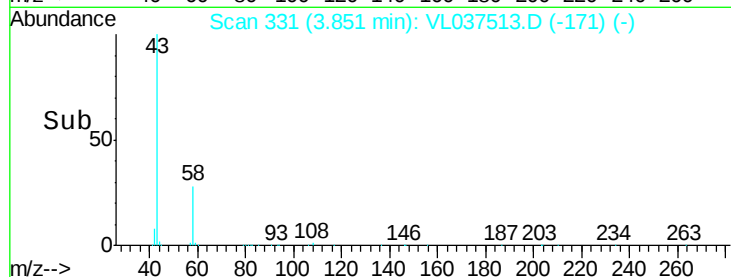
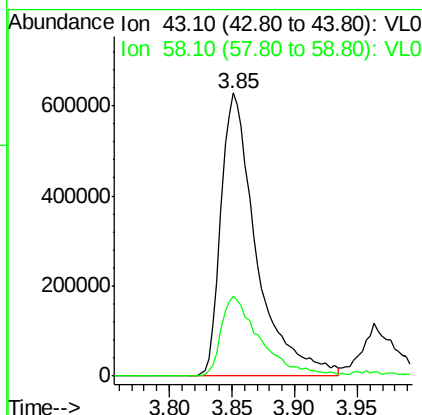
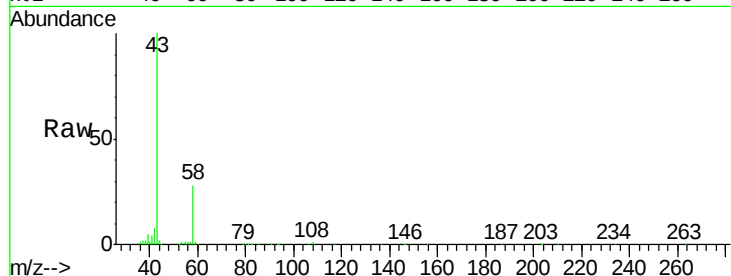
#15  
Acetone  
Concen: 8.506 ppbv  
RT: 3.85 min Scan# 331  
Delta R.T. 0.02 min  
Lab File: VL037513.D  
Acq: 20 Aug 2021 8:43

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

Tot Ion: 43 Resp: 1229372  
Ion Ratio Lower Upper  
43 100  
58 31.1 24.8 37.2

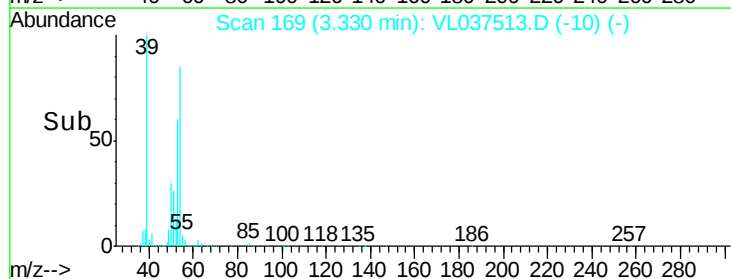
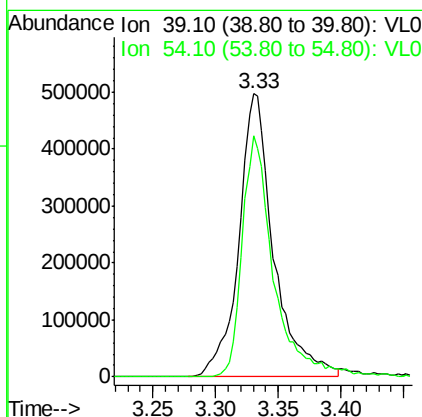
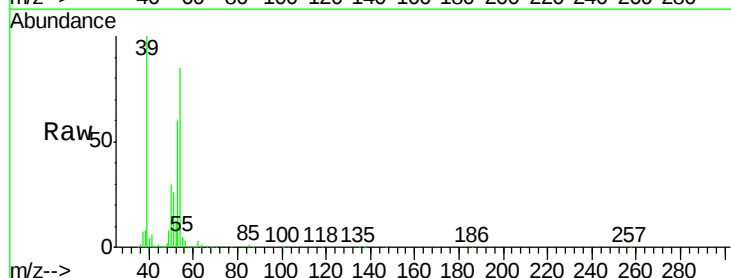
Manual Integrations  
APPROVED

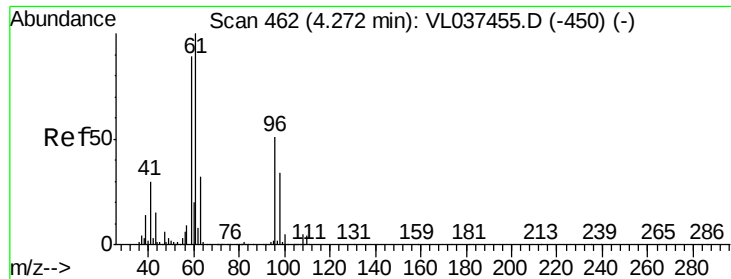
MMDadoda  
8/20/2021 6:31:46 PM



#16  
1,3-Butadiene  
Concen: 10.356 ppbv  
RT: 3.33 min Scan# 169  
Delta R.T. 0.01 min  
Lab File: VL037513.D  
Acq: 20 Aug 2021 8:43

Tgt Ion: 39 Resp: 960155  
Ion Ratio Lower Upper  
39 100  
54 77.5 63.7 95.5





#17

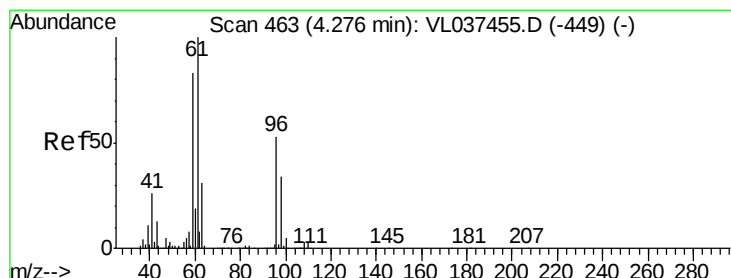
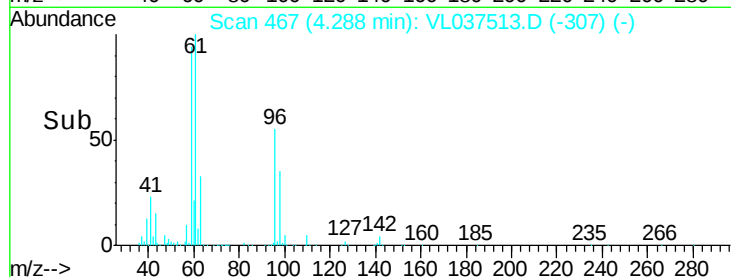
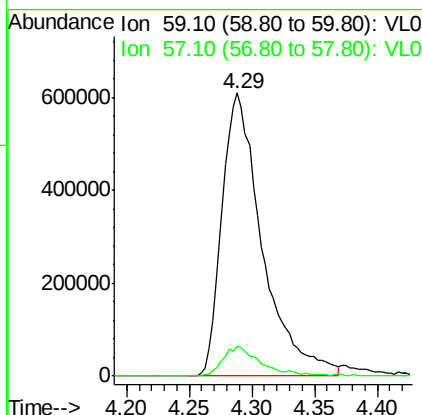
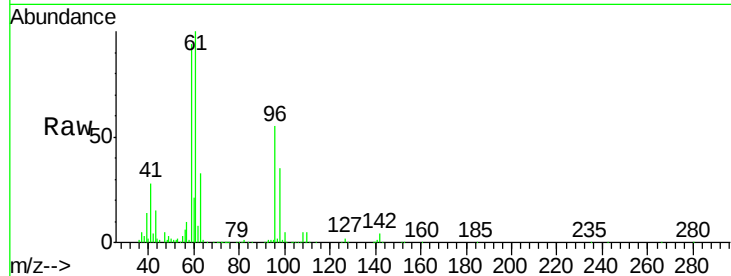
tert-Butyl alcohol  
Concen: 10.316 ppbv  
RT: 4.29 min Scan# 467  
Delta R.T. 0.02 min  
Lab File: VL037513.D  
Acq: 20 Aug 2021 8:43

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

Tot Ion: 59 Resp: 1362067  
Ion Ratio Lower Upper  
59 100  
57 10.2 8.3 12.5

Manual Integrations  
APPROVED

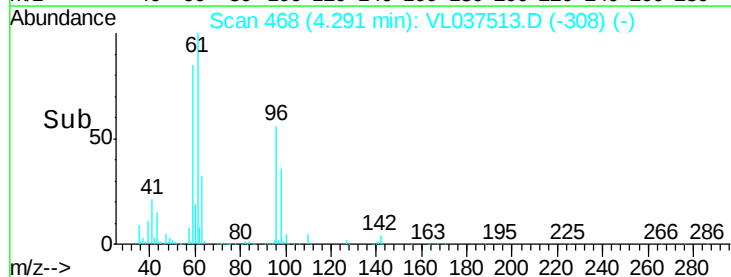
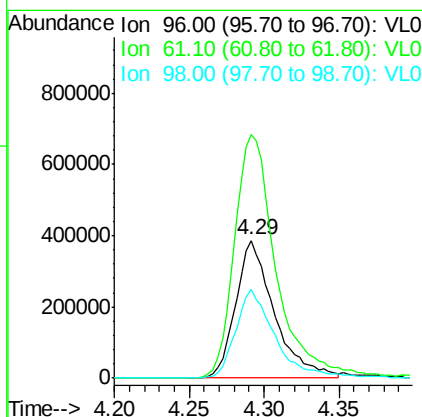
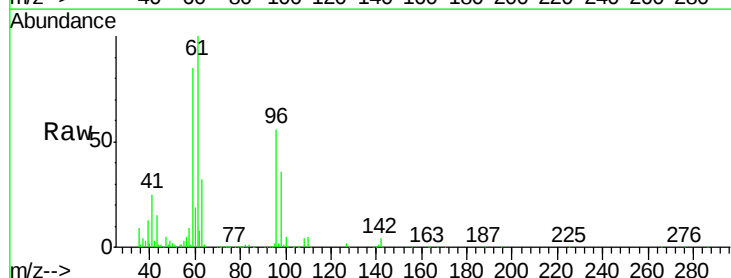
MMDadoda  
8/20/2021 6:31:46 PM

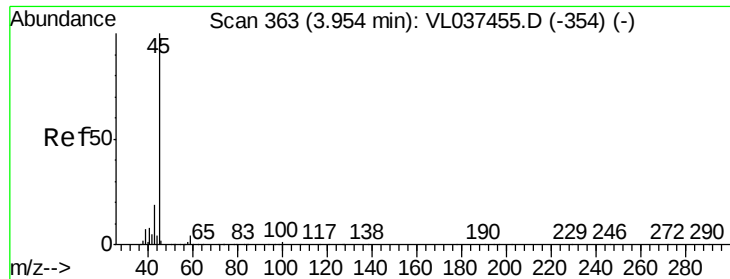


#18

1,1-Dichloroethene  
Concen: 9.745 ppbv  
RT: 4.29 min Scan# 468  
Delta R.T. 0.02 min  
Lab File: VL037513.D  
Acq: 20 Aug 2021 8:43

Tgt Ion: 96 Resp: 694792  
Ion Ratio Lower Upper  
96 100  
61 177.2 151.1 226.7  
98 64.3 51.8 77.8





#19

Isopropyl Alcohol

Concen: 9.912 ppbv

RT: 3.97 min Scan# 367

Delta R.T. 0.01 min

Lab File: VL037513.D

Acq: 20 Aug 2021 8:43

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 820736

Ion Ratio Lower Upper

45 100

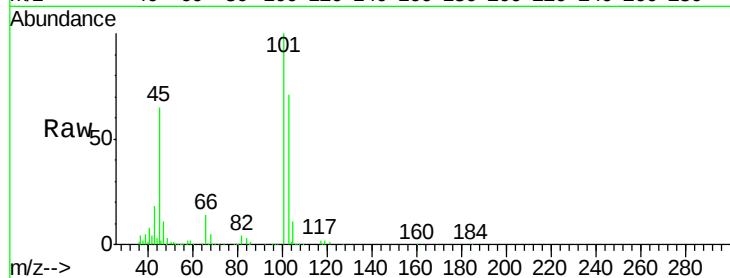
58 3.7 1.4 2.2#

Manual Integrations

APPROVED

MMDadoda

8/20/2021 6:31:46 PM



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.97

400000

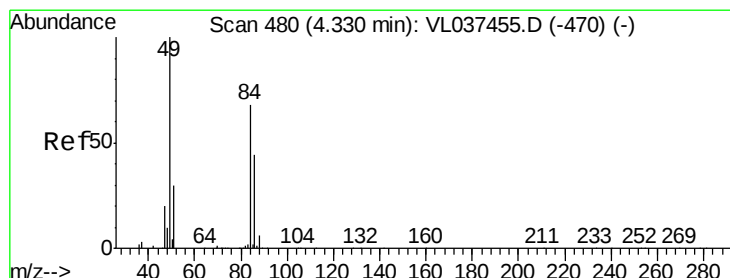
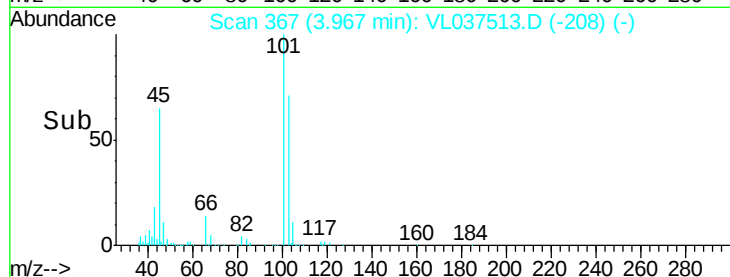
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 8.047 ppbv

RT: 4.35 min Scan# 485

Delta R.T. 0.02 min

Lab File: VL037513.D

Acq: 20 Aug 2021 8:43

Tgt Ion: 84 Resp: 582309

Ion Ratio Lower Upper

84 100

49 154.4 118.2 177.2

51 48.0 36.6 55.0

86 64.2 51.8 77.6

Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

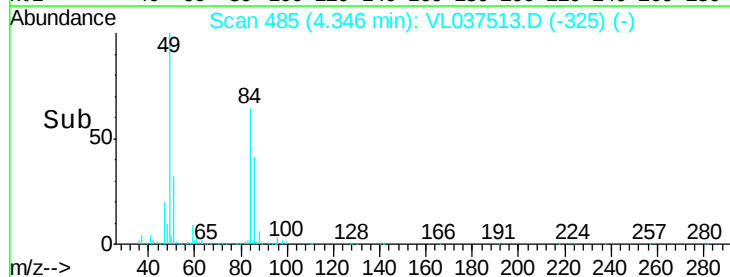
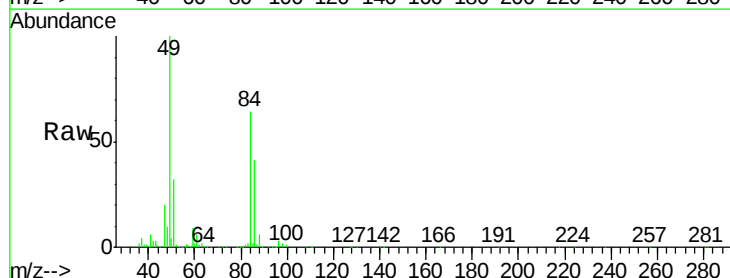
600000

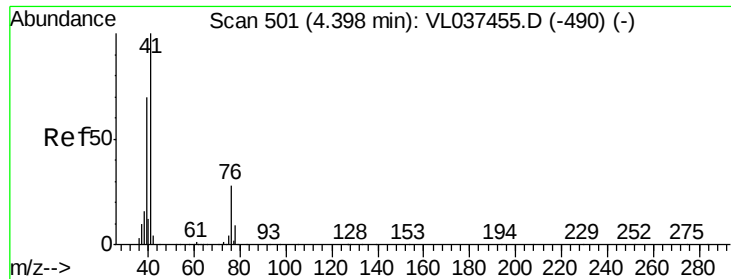
400000

200000

0

Time-->





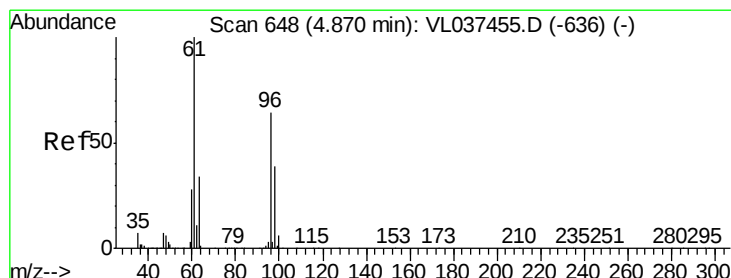
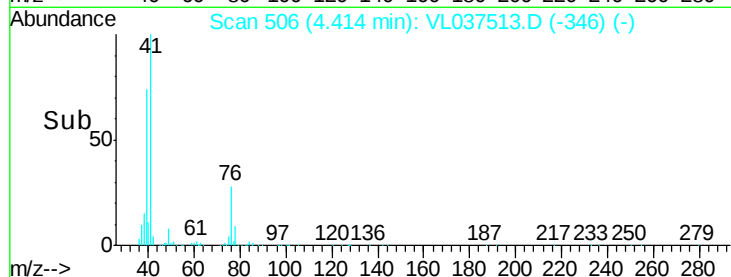
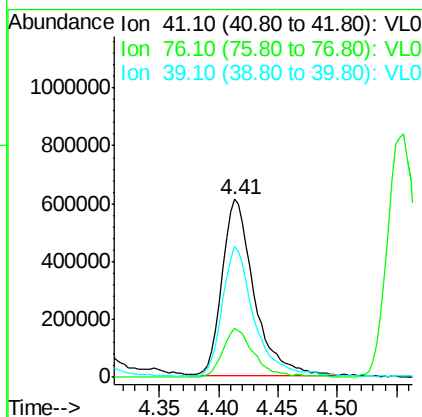
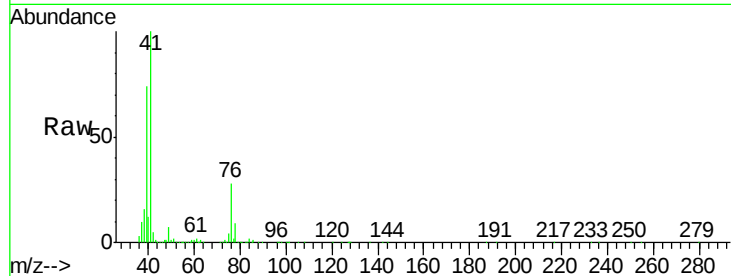
#21  
Allvl Chloride  
Concen: 9.751 ppbv  
RT: 4.41 min Scan# 506  
Delta R.T. 0.02 min  
Lab File: VL037513.D  
Acq: 20 Aug 2021 8:43

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

Tot Ion: 41 Resp: 1144683  
Ion Ratio Lower Upper  
41 100  
76 27.7 21.8 32.6  
39 73.2 56.8 85.2

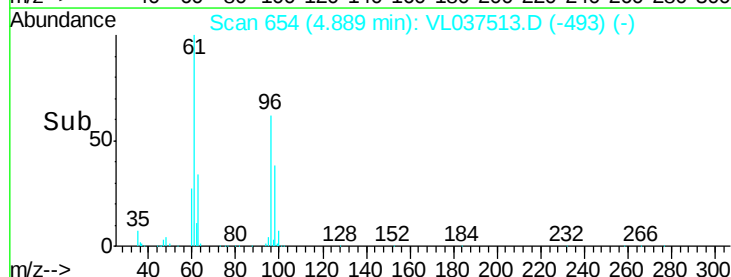
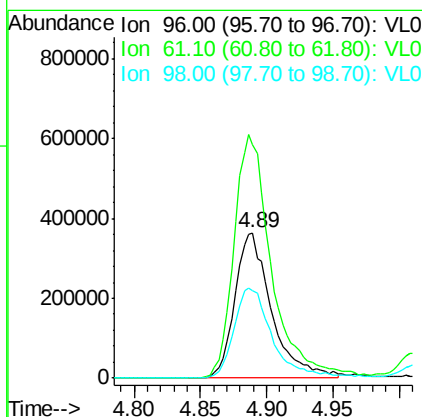
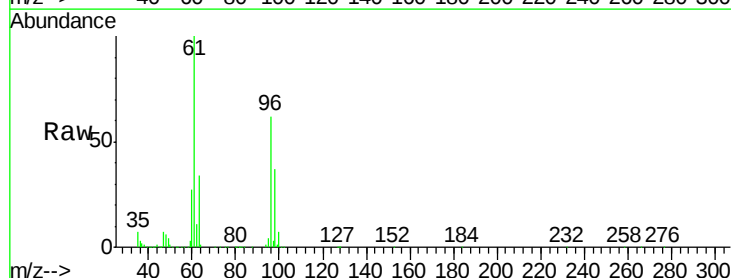
Manual Integrations  
APPROVED

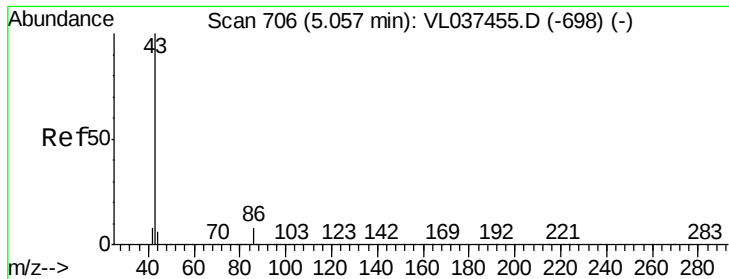
MMDadoda  
8/20/2021 6:31:46 PM



#22  
trans-1,2-Dichloroethene  
Concen: 9.864 ppbv  
RT: 4.89 min Scan# 654  
Delta R.T. 0.02 min  
Lab File: VL037513.D  
Acq: 20 Aug 2021 8:43

Tgt Ion: 96 Resp: 701630  
Ion Ratio Lower Upper  
96 100  
61 160.9 125.5 188.3  
98 60.3 49.0 73.4





#23

Vinyl Acetate

Concen: 11.516 ppbv

RT: 5.08 min Scan# 712

Delta R.T. 0.02 min

Lab File: VL037513.D

Acq: 20 Aug 2021 8:43

Tot Ion: 43 Resp: 2453498

Ion Ratio Lower Upper

43 100

86 7.8 5.7 8.5

42 9.1 7.4 11.2

44 4.8 4.3 6.5

Instrument :

MSVOA\_L

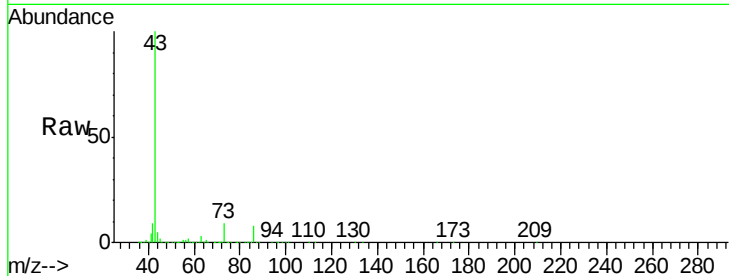
ClientSampleId :

VSTDCCC010EC

Manual Integrations  
APPROVED

MMDadoda

8/20/2021 6:31:46 PM

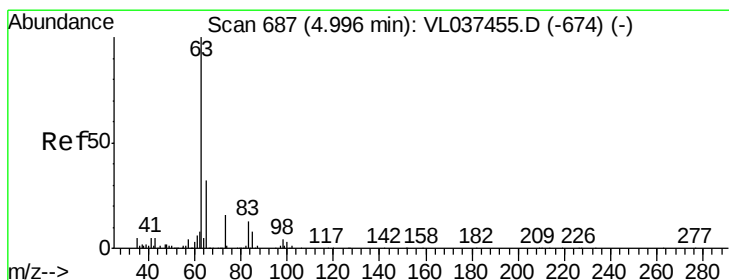
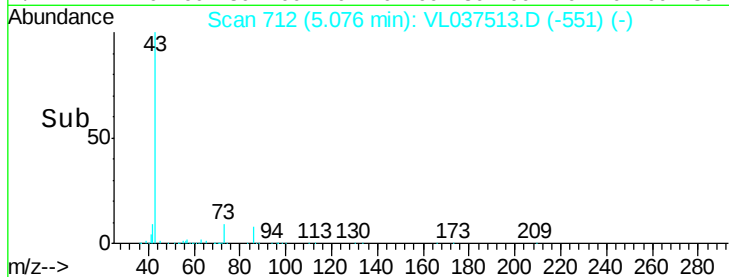
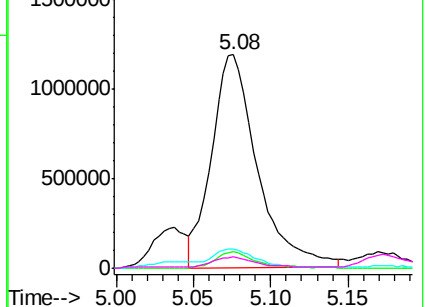


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.894 ppbv

RT: 5.01 min Scan# 693

Delta R.T. 0.02 min

Lab File: VL037513.D

Acq: 20 Aug 2021 8:43

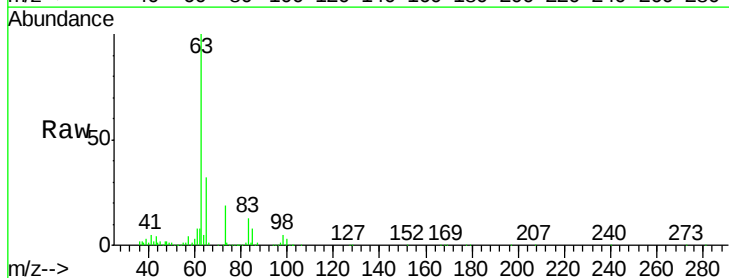
Tgt Ion: 63 Resp: 1528803

Ion Ratio Lower Upper

63 100

98 4.2 2.1 6.3

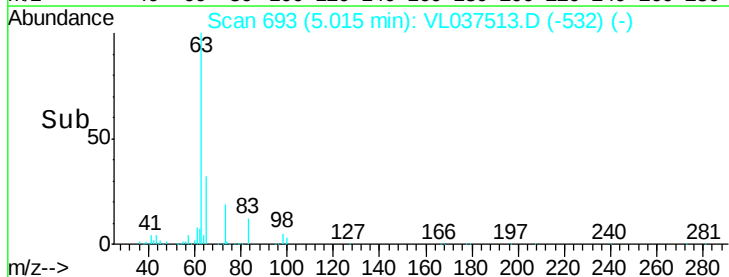
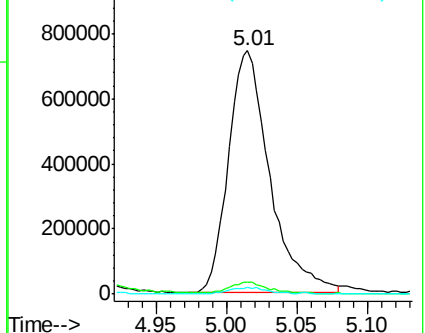
100 2.8 1.6 4.7

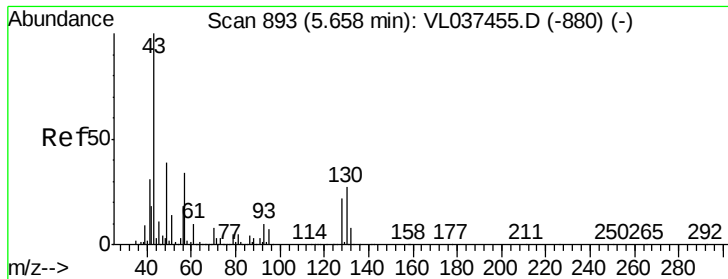


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





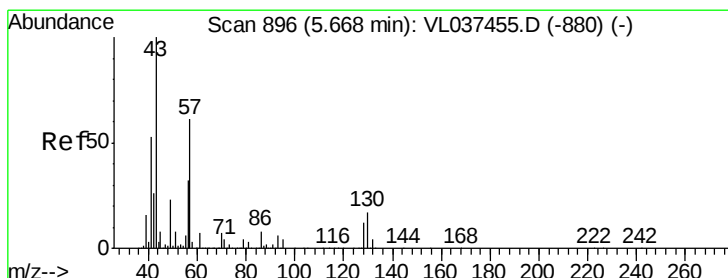
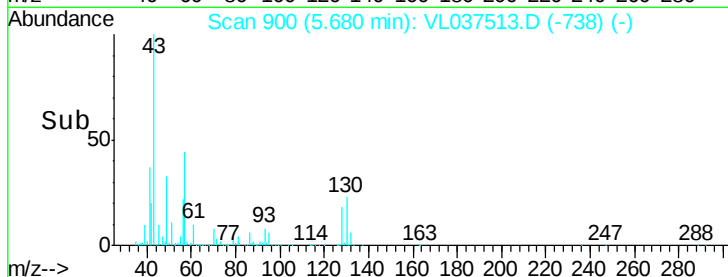
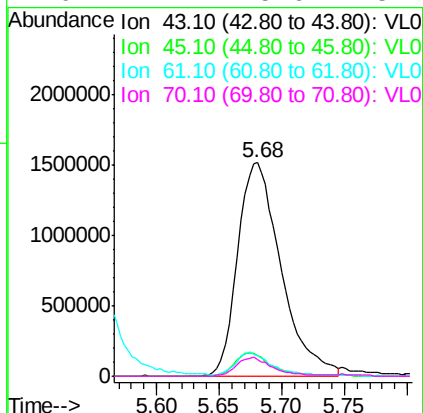
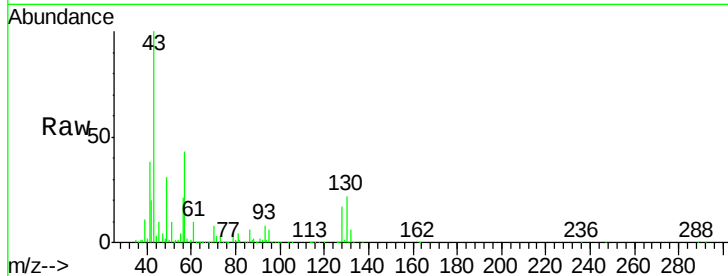
#25  
Ethyl Acetate  
Concen: 9.912 ppbv  
RT: 5.68 min Scan# 900  
Delta R.T. 0.02 min  
Lab File: VL037513.D  
Acq: 20 Aug 2021 8:43

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 45      | 10.1  | 8.0   | 12.0  |
| 61      | 10.0  | 8.0   | 12.0  |
| 70      | 7.4   | 5.6   | 8.4   |

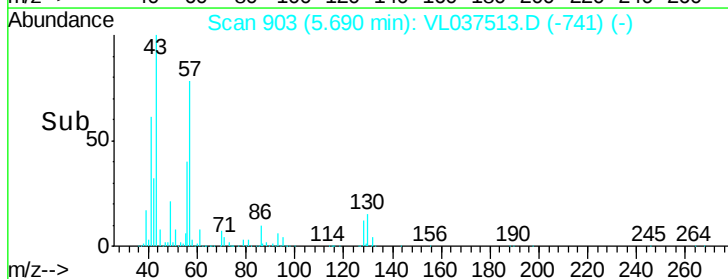
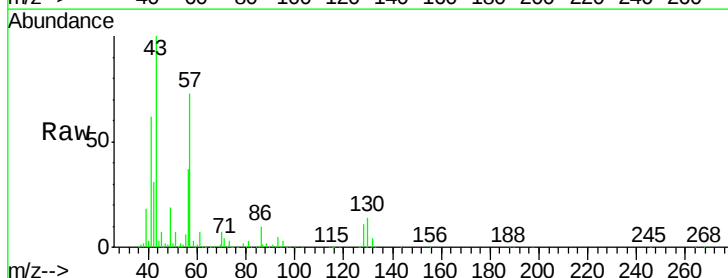
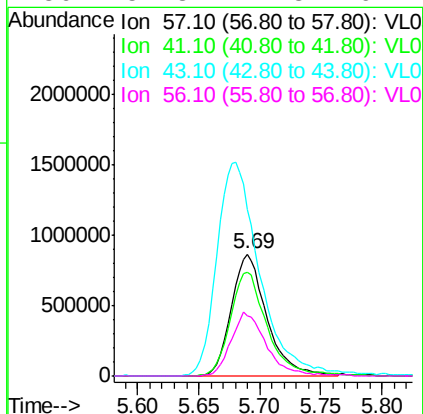
Manual Integrations  
APPROVED

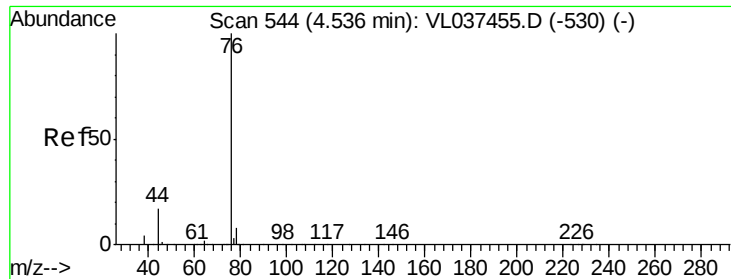
MMDadoda  
8/20/2021 6:31:46 PM



#26  
Hexane  
Concen: 9.783 ppbv  
RT: 5.69 min Scan# 903  
Delta R.T. 0.02 min  
Lab File: VL037513.D  
Acq: 20 Aug 2021 8:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 57      | 100   |       |       |
| 41      | 88.4  | 72.3  | 108.5 |
| 43      | 214.2 | 172.3 | 258.5 |
| 56      | 52.3  | 42.8  | 64.2  |





#27

Carbon Disulfide

Concen: 10.385 ppbv

RT: 4.56 min Scan# 550

Delta R.T. 0.02 min

Lab File: VL037513.D

Acq: 20 Aug 2021 8:43

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1660314

Ion Ratio Lower Upper

76 100

44 18.0 13.9 20.9

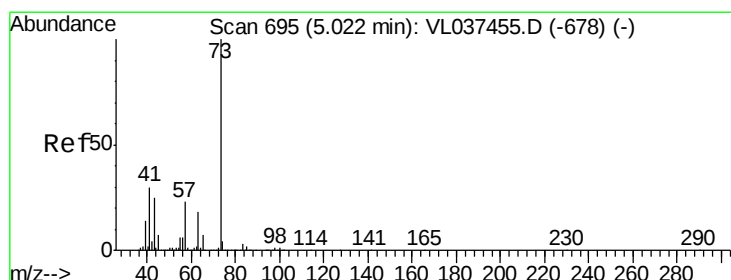
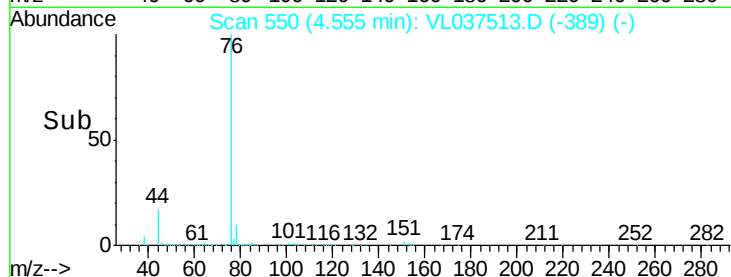
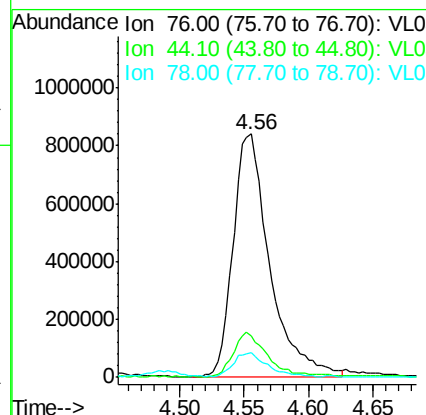
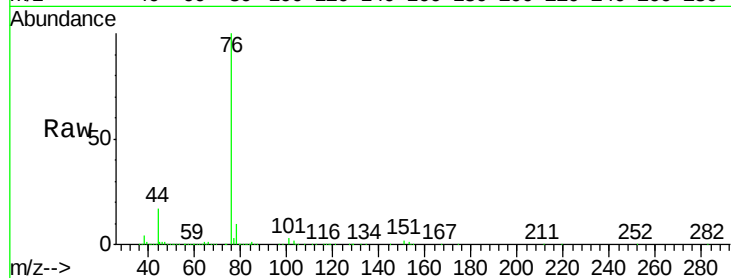
78 9.2 7.9 11.9

Manual Integrations

APPROVED

MMDadoda

8/20/2021 6:31:46 PM



#28

Methyl tert-Butyl Ether

Concen: 10.667 ppbv

RT: 5.04 min Scan# 700

Delta R.T. 0.02 min

Lab File: VL037513.D

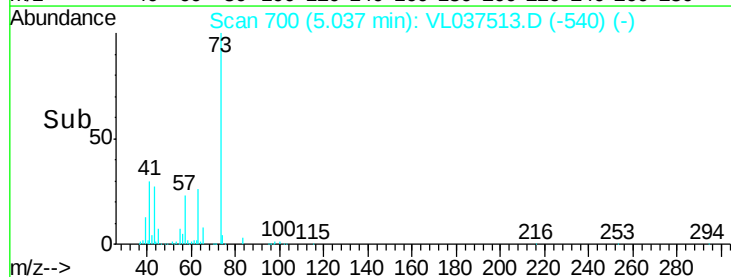
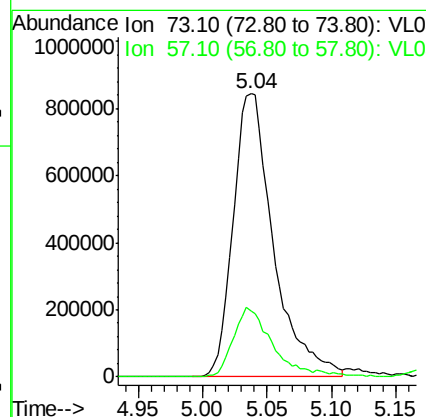
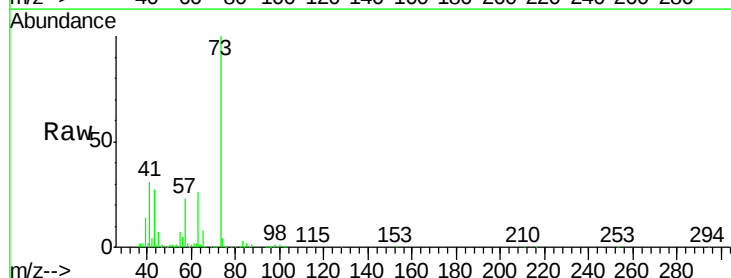
Acq: 20 Aug 2021 8:43

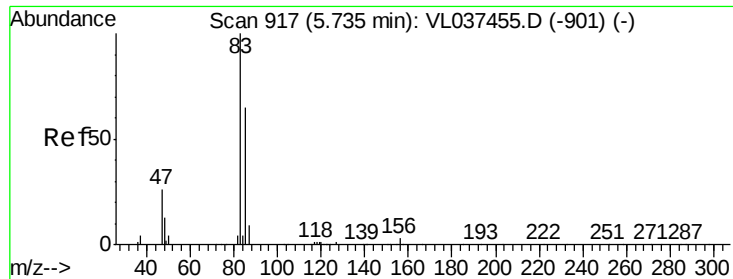
Tgt Ion: 73 Resp: 1837915

Ion Ratio Lower Upper

73 100

57 24.2 19.4 29.2





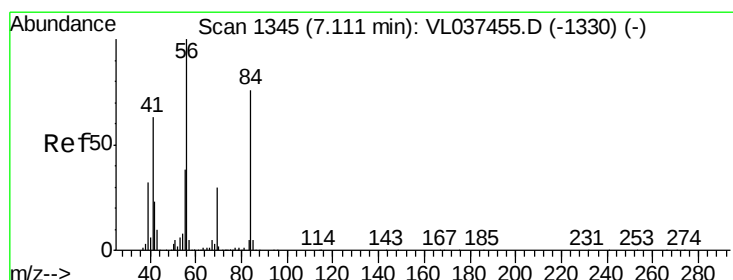
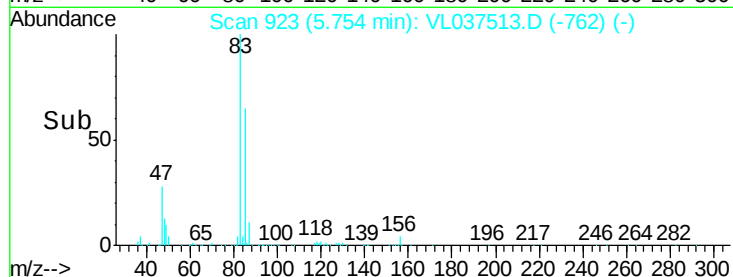
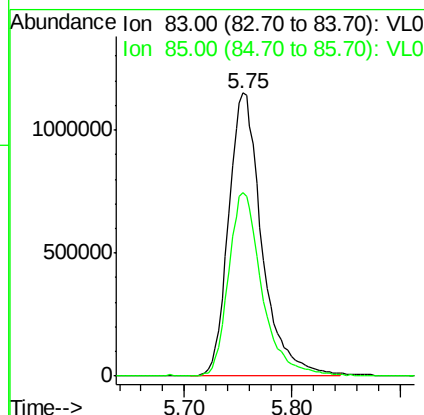
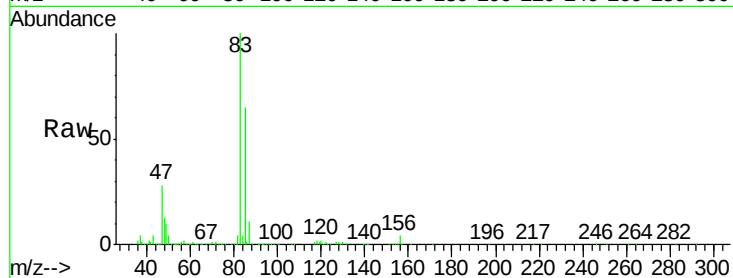
#29  
Chloroform  
Concen: 9.765 ppbv  
RT: 5.75 min Scan# 923  
Delta R.T. 0.02 min  
Lab File: VL037513.D  
Acq: 20 Aug 2021 8:43

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

Tot Ion: 83 Resp: 2482729  
Ion Ratio Lower Upper  
83 100  
85 64.6 52.3 78.5

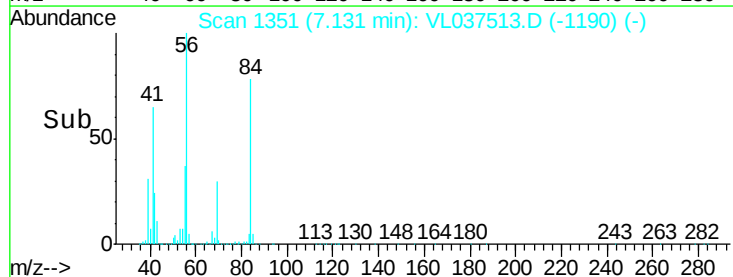
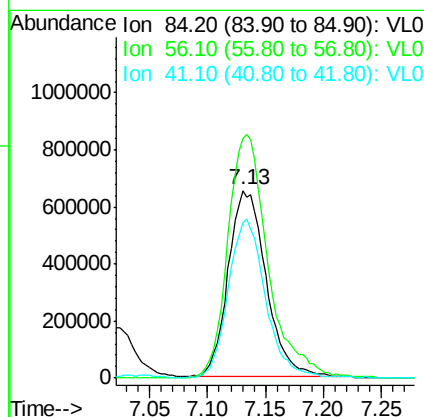
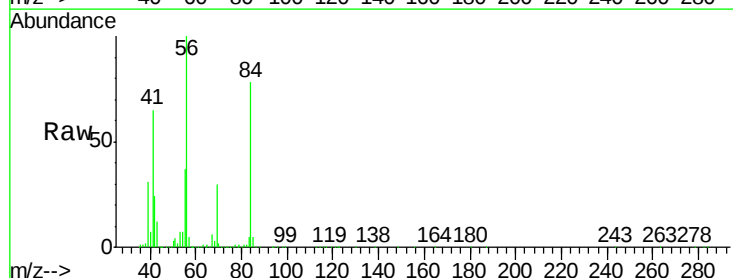
Manual Integrations  
APPROVED

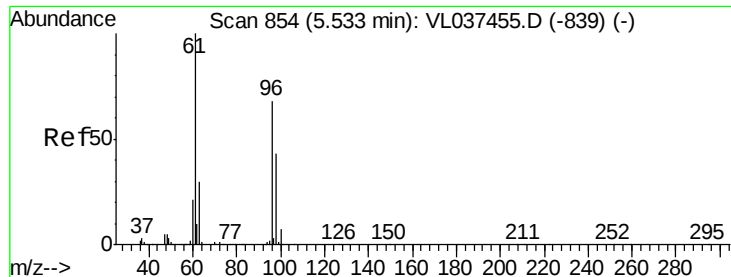
MMDadoda  
8/20/2021 6:31:46 PM



#30  
Cyclohexane  
Concen: 9.954 ppbv  
RT: 7.13 min Scan# 1351  
Delta R.T. 0.02 min  
Lab File: VL037513.D  
Acq: 20 Aug 2021 8:43

Tgt Ion: 84 Resp: 1487961  
Ion Ratio Lower Upper  
84 100  
56 139.1 110.6 165.8  
41 84.7 67.0 100.6





#31

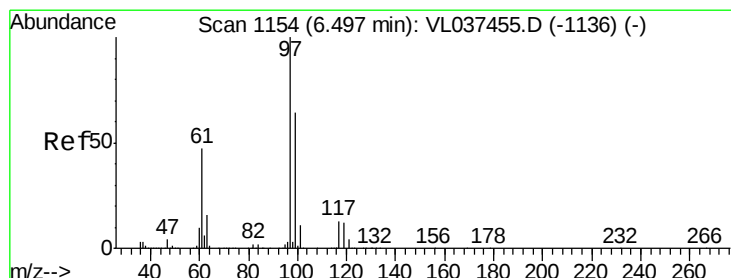
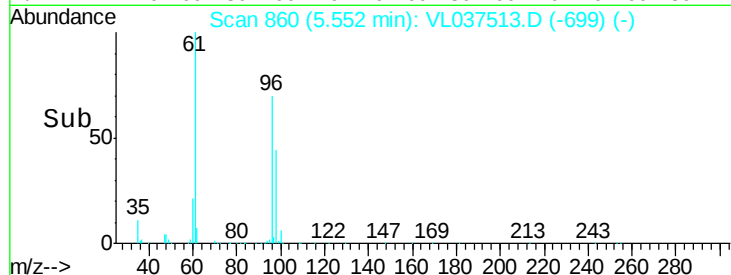
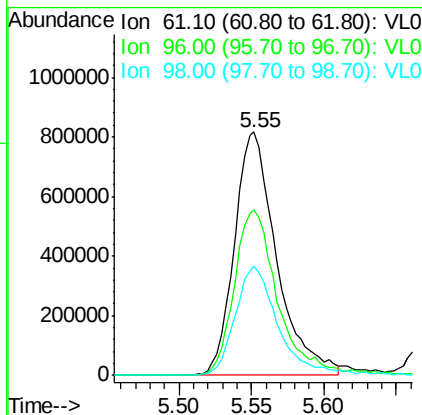
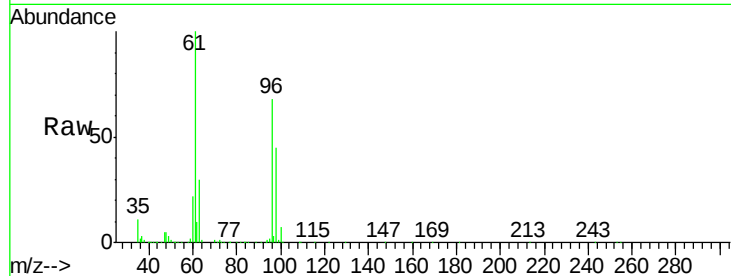
cis-1,2-Dichloroethene  
Concen: 10.147 ppbv  
RT: 5.55 min Scan# 860  
Delta R.T. 0.02 min  
Lab File: VL037513.D  
Acq: 20 Aug 2021 8:43

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 61      | 100   |       |       |
| 96      | 67.9  | 54.8  | 82.2  |
| 98      | 44.8  | 34.2  | 51.2  |

Manual Integrations  
APPROVED

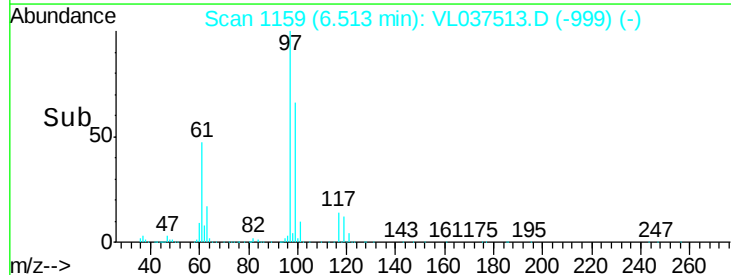
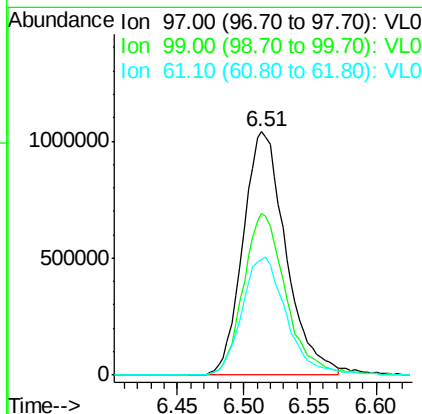
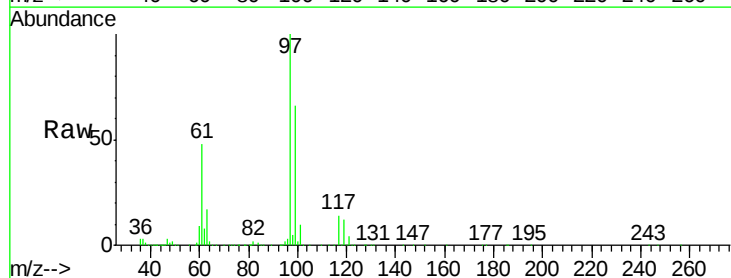
MMDadoda  
8/20/2021 6:31:46 PM

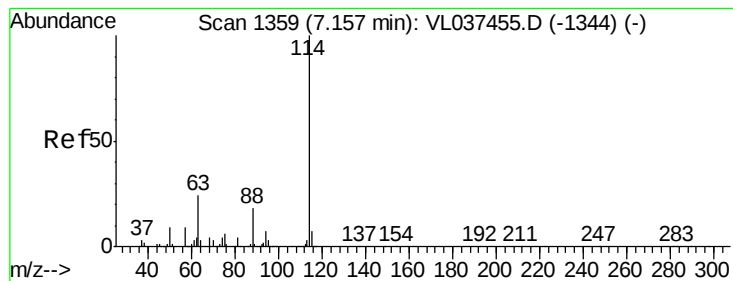


#32

1,1,1-Trichloroethane  
Concen: 9.384 ppbv  
RT: 6.51 min Scan# 1159  
Delta R.T. 0.02 min  
Lab File: VL037513.D  
Acq: 20 Aug 2021 8:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 66.2  | 51.8  | 77.6  |
| 61      | 50.3  | 39.6  | 59.4  |





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1366

Delta R.T. 0.02 min

Lab File: VL037513.D

Acq: 20 Aug 2021 8:43

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:114 Resp: 4236077

Ion Ratio Lower Upper

114 100

63 23.9 19.3 28.9

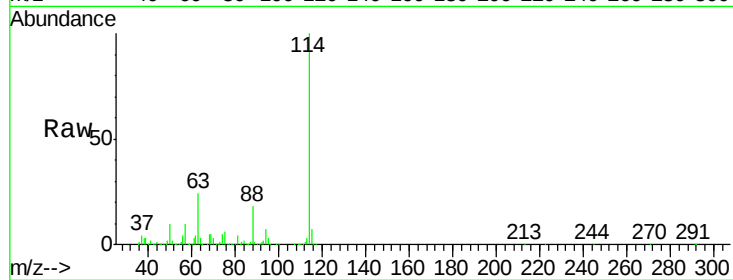
88 17.9 14.2 21.4

Manual Integrations

APPROVED

MMDadoda

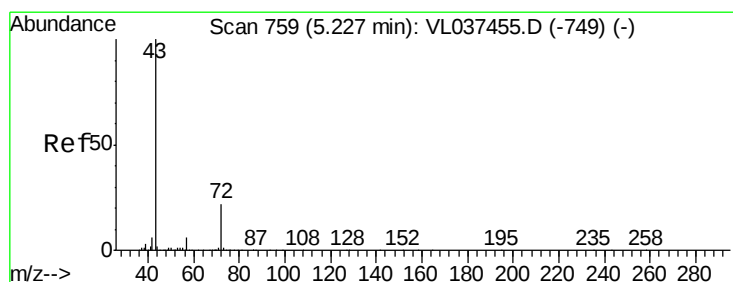
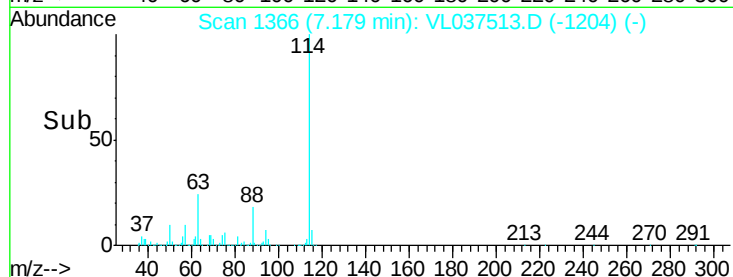
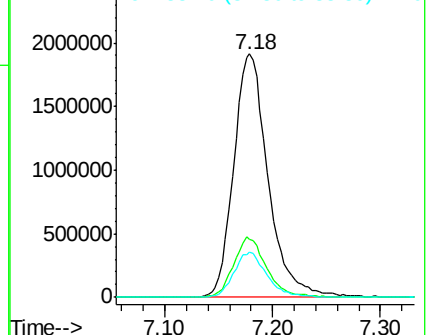
8/20/2021 6:31:46 PM



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 10.087 ppbv

RT: 5.25 min Scan# 765

Delta R.T. 0.02 min

Lab File: VL037513.D

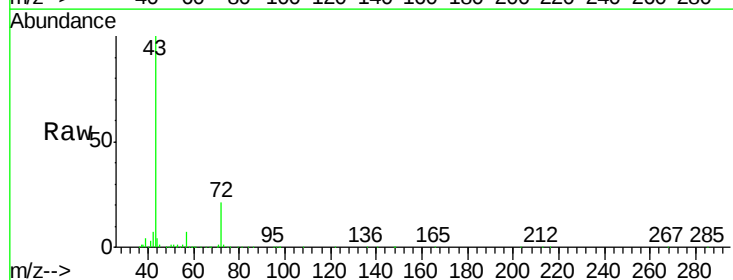
Acq: 20 Aug 2021 8:43

Tgt Ion: 43 Resp: 1638251

Ion Ratio Lower Upper

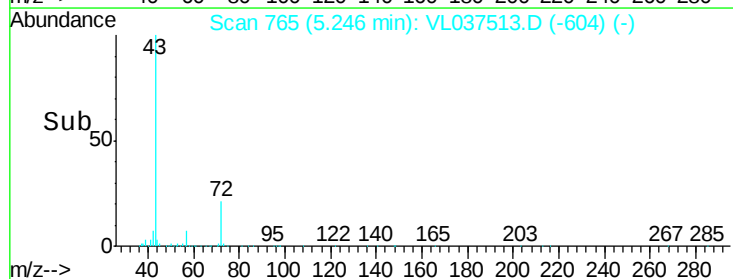
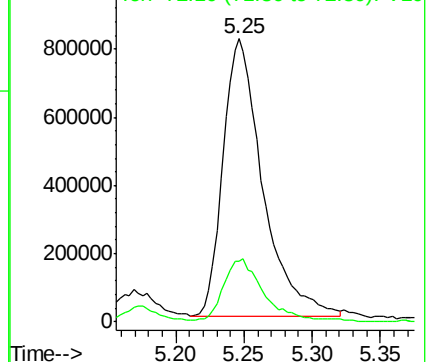
43 100

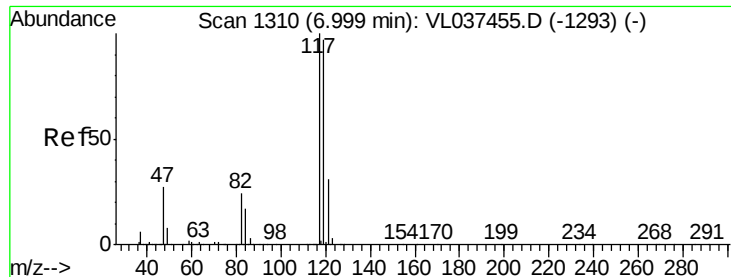
72 22.7 17.4 26.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





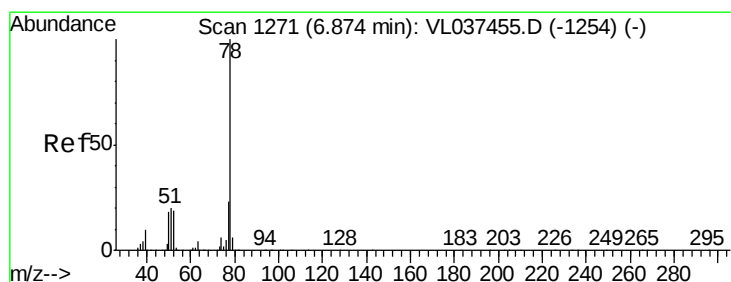
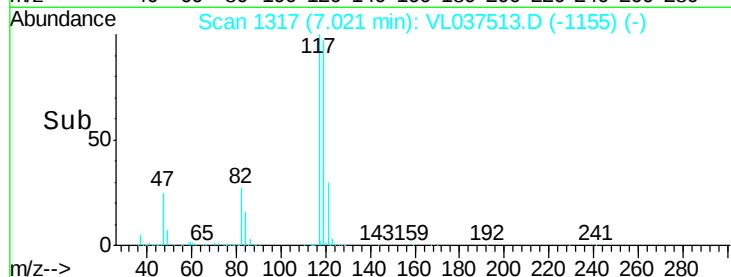
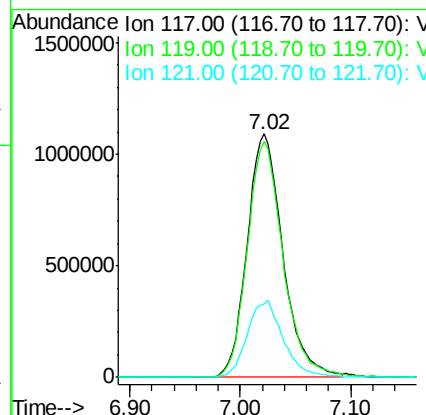
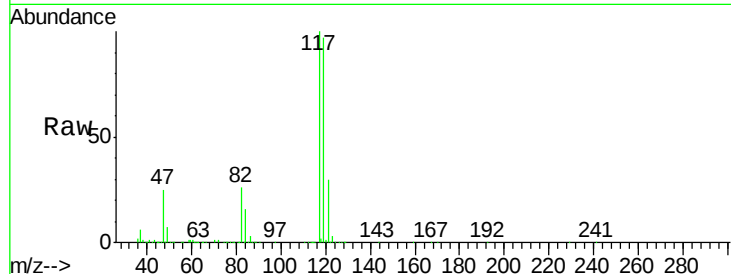
#35  
Carbon Tetrachloride  
Concen: 9.801 ppbv  
RT: 7.02 min Scan# 1317  
Delta R.T. 0.02 min  
Lab File: VL037513.D  
Acq: 20 Aug 2021 8:43

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 96.9  | 77.3  | 115.9 |
| 121     | 30.3  | 25.2  | 37.8  |

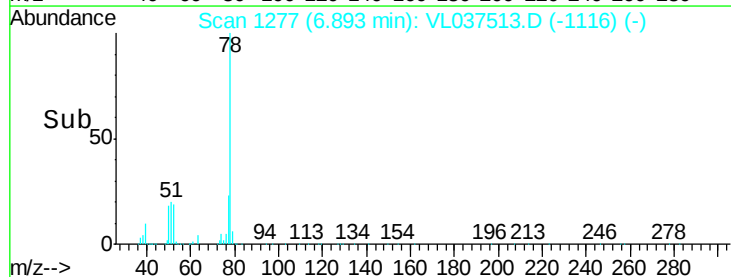
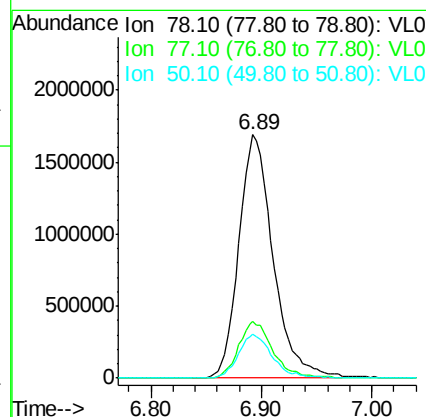
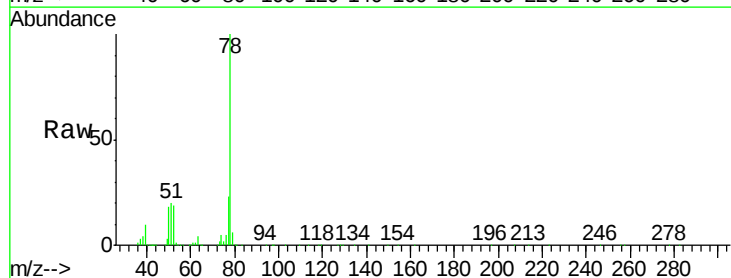
Manual Integrations  
APPROVED

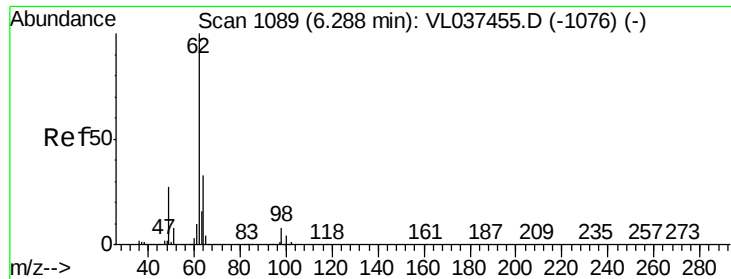
MMDadoda  
8/20/2021 6:31:46 PM



#36  
Benzene  
Concen: 10.216 ppbv  
RT: 6.89 min Scan# 1277  
Delta R.T. 0.02 min  
Lab File: VL037513.D  
Acq: 20 Aug 2021 8:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 23.1  | 18.2  | 27.4  |
| 50      | 17.7  | 14.6  | 21.8  |





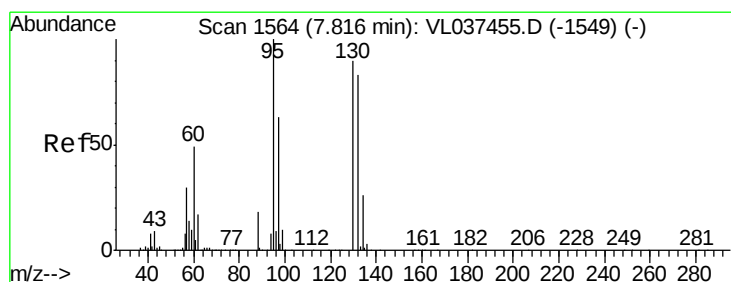
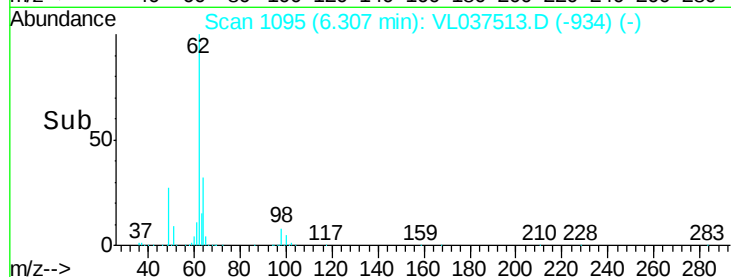
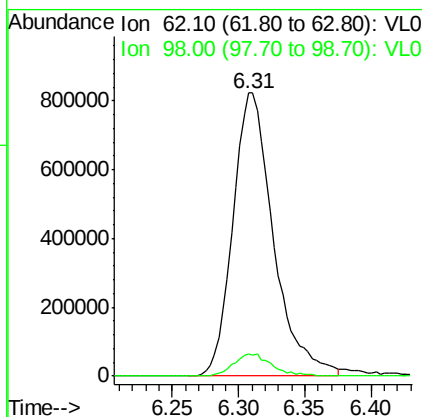
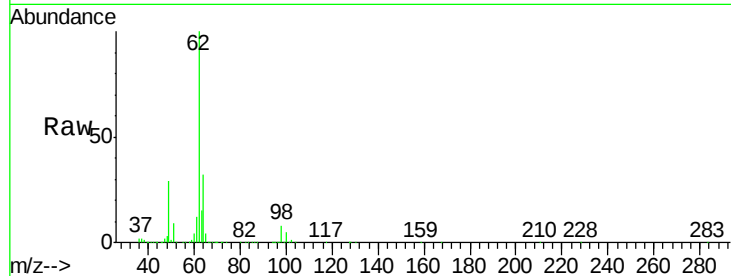
#37  
 1,2-Dichloroethane  
 Concen: 9.931 ppbv  
 RT: 6.31 min Scan# 1095  
 Delta R.T. 0.02 min  
 Lab File: VL037513.D  
 Acq: 20 Aug 2021 8:43

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Tot Ion: 62 Resp: 1751742  
 Ion Ratio Lower Upper  
 62 100  
 98 7.6 6.0 9.0

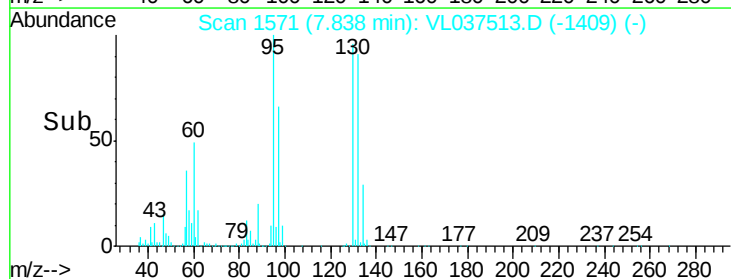
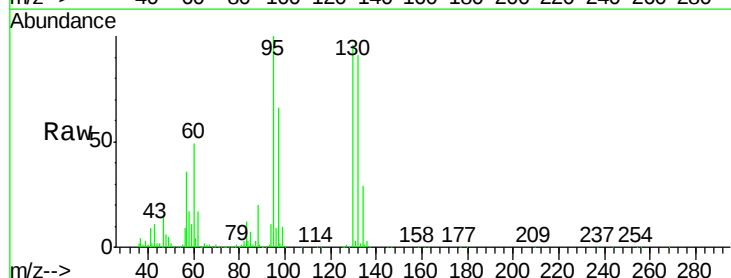
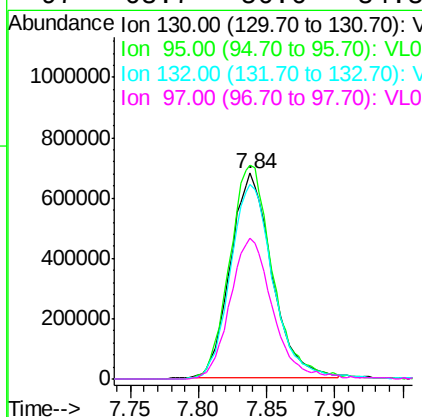
Manual Integrations  
 APPROVED

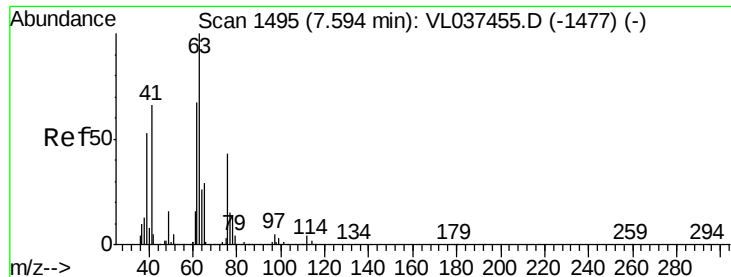
MMDadoda  
 8/20/2021 6:31:46 PM



#38  
 Trichloroethene  
 Concen: 9.810 ppbv  
 RT: 7.84 min Scan# 1571  
 Delta R.T. 0.02 min  
 Lab File: VL037513.D  
 Acq: 20 Aug 2021 8:43

Tgt Ion:130 Resp: 1433312  
 Ion Ratio Lower Upper  
 130 100  
 95 103.9 89.2 133.8  
 132 94.8 74.0 111.0  
 97 68.7 56.6 84.8





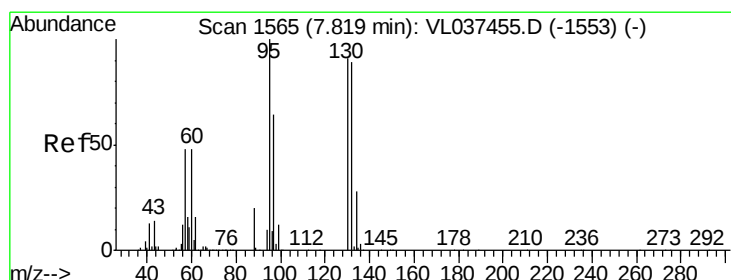
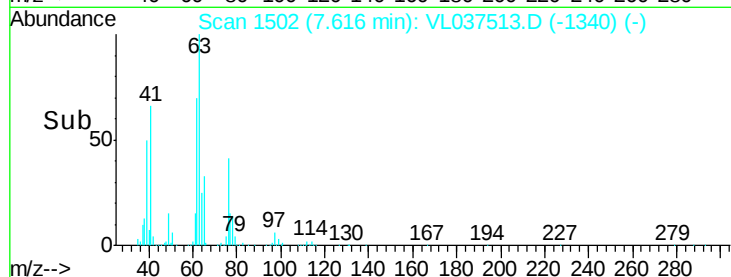
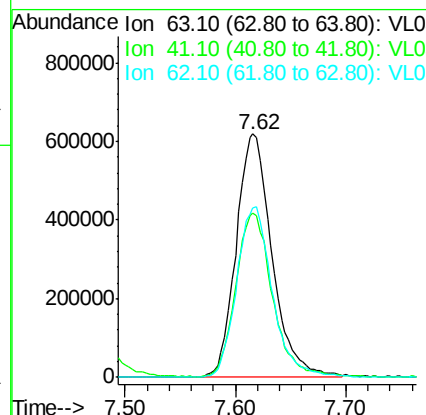
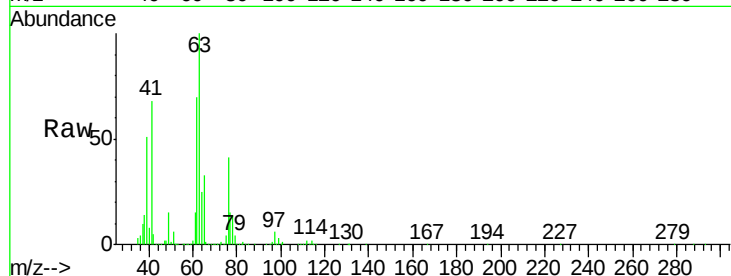
#39  
 1,2-Dichloropropane  
 Concen: 10.159 ppbv  
 RT: 7.62 min Scan# 1502  
 Delta R.T. 0.02 min  
 Lab File: VL037513.D  
 Acq: 20 Aug 2021 8:43

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 41      | 67.6  | 52.4  | 78.6  |
| 62      | 69.6  | 53.6  | 80.4  |

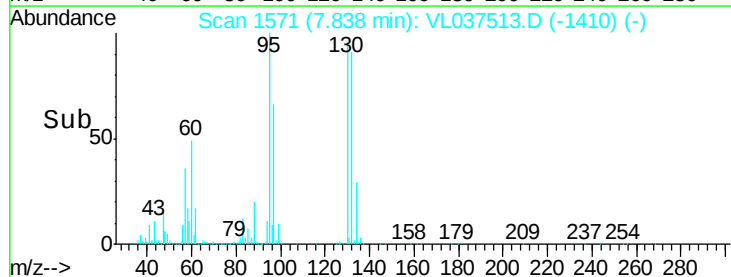
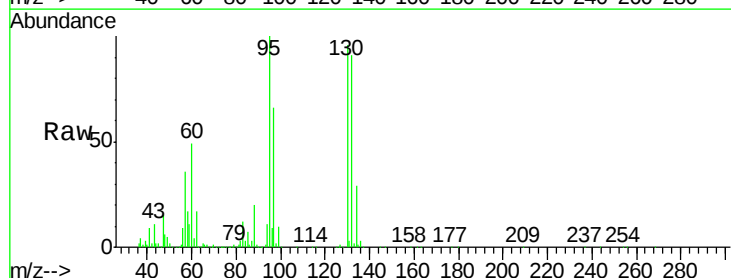
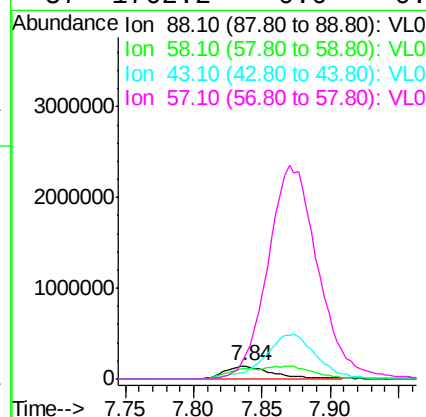
Manual Integrations  
 APPROVED

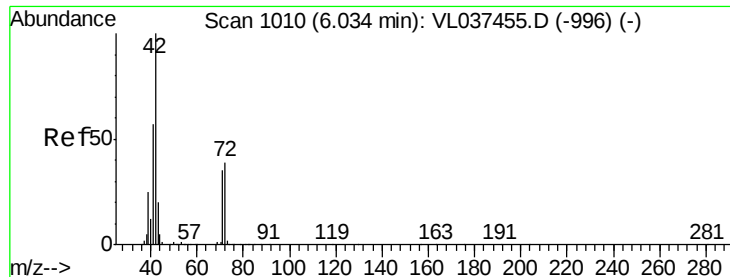
MMDadoda  
 8/20/2021 6:31:46 PM



#40  
 1,4-Dioxane  
 Concen: 10.262 ppbv  
 RT: 7.84 min Scan# 1571  
 Delta R.T. 0.02 min  
 Lab File: VL037513.D  
 Acq: 20 Aug 2021 8:43

| Tgt Ion | Ratio  | Lower | Upper |
|---------|--------|-------|-------|
| 88      | 100    |       |       |
| 58      | 159.3  | 0.0   | 0.0#  |
| 43      | 387.1  | 0.0   | 0.0#  |
| 57      | 1762.2 | 0.0   | 0.0#  |





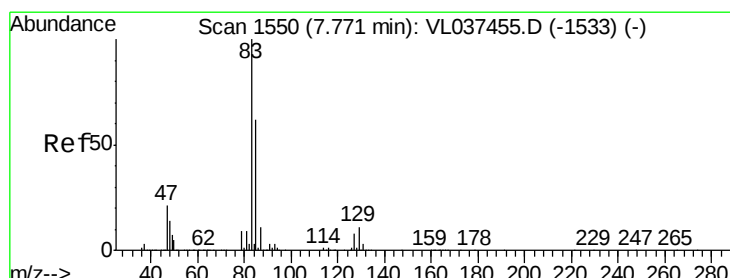
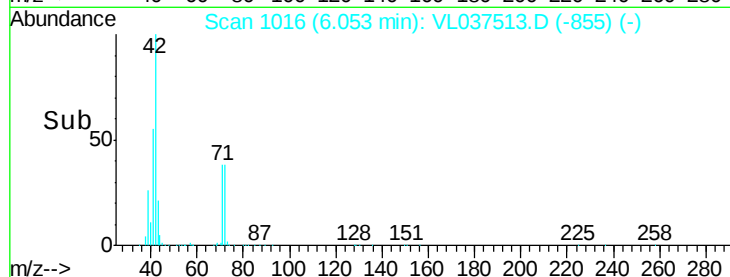
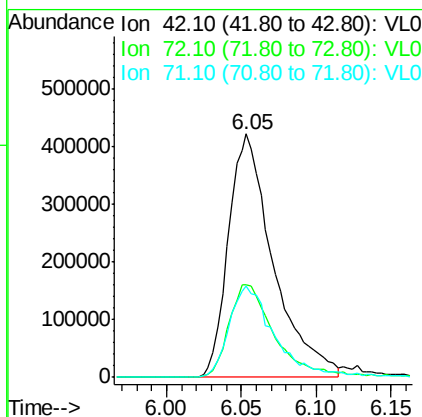
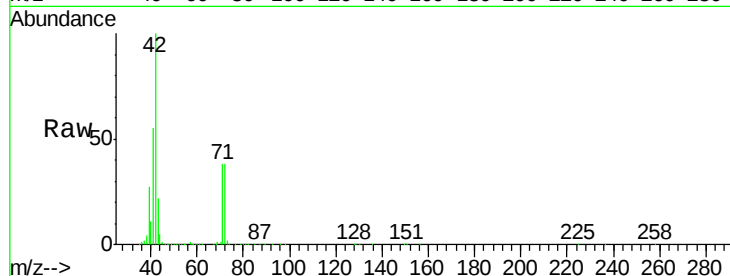
#41  
Tetrahydrofuran  
Concen: 10.502 ppbv  
RT: 6.05 min Scan# 1016  
Delta R.T. 0.02 min  
Lab File: VL037513.D  
Acq: 20 Aug 2021 8:43

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 40.3  | 32.2  | 48.4  |
| 71      | 39.2  | 30.5  | 45.7  |

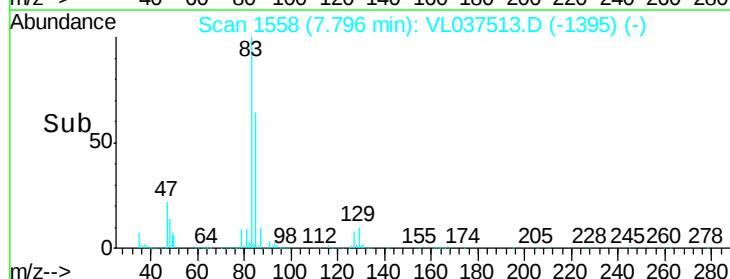
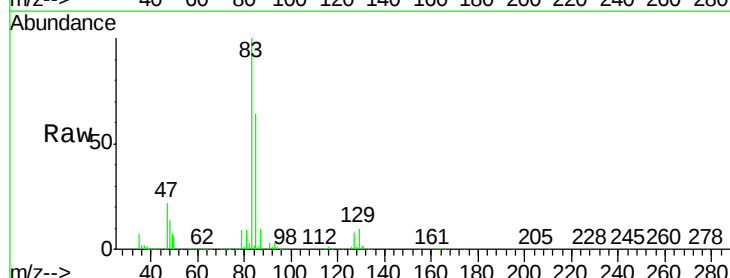
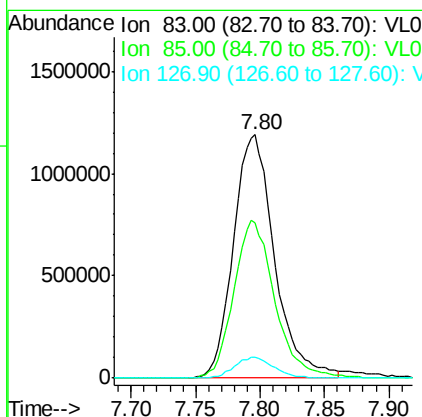
Manual Integrations  
APPROVED

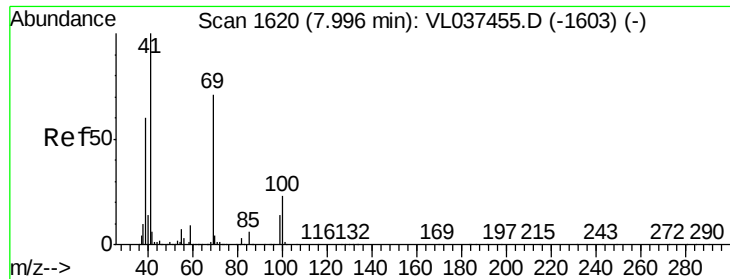
MMDadoda  
8/20/2021 6:31:46 PM



#42  
Bromodichloromethane  
Concen: 10.213 ppbv  
RT: 7.80 min Scan# 1558  
Delta R.T. 0.03 min  
Lab File: VL037513.D  
Acq: 20 Aug 2021 8:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 63.7  | 49.5  | 74.3  |
| 127     | 8.5   | 6.3   | 9.5   |





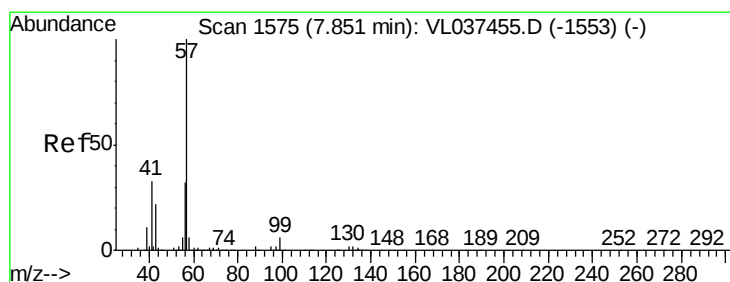
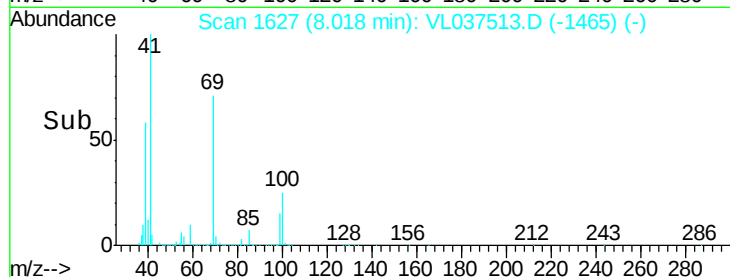
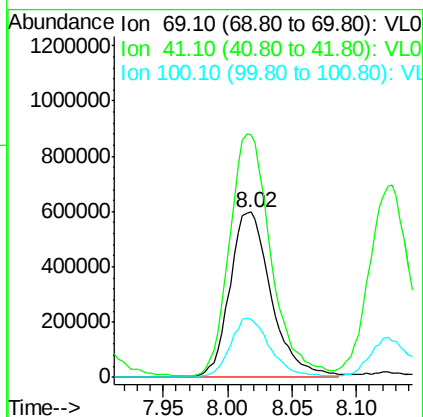
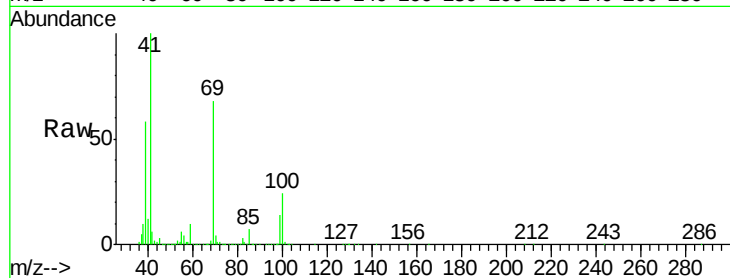
#43  
Methvl Methacrylate  
Concen: 10.691 ppbv  
RT: 8.02 min Scan# 1627  
Delta R.T. 0.02 min  
Lab File: VL037513.D  
Acq: 20 Aug 2021 8:43

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

Tot Ion: 69 Resp: 1326861  
Ion Ratio Lower Upper  
69 100  
41 148.4 118.6 178.0  
100 35.2 27.4 41.0

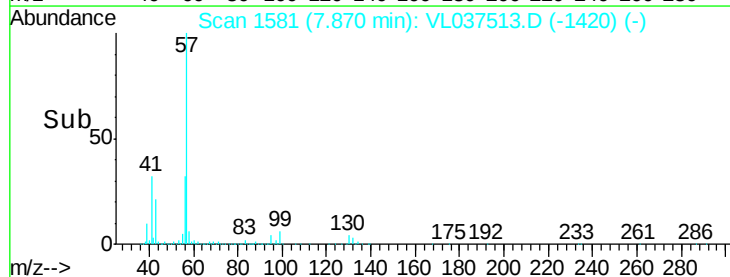
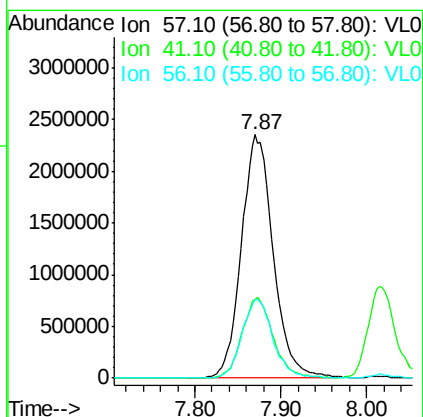
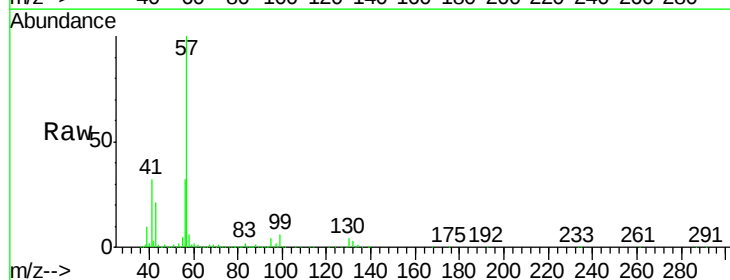
Manual Integrations  
APPROVED

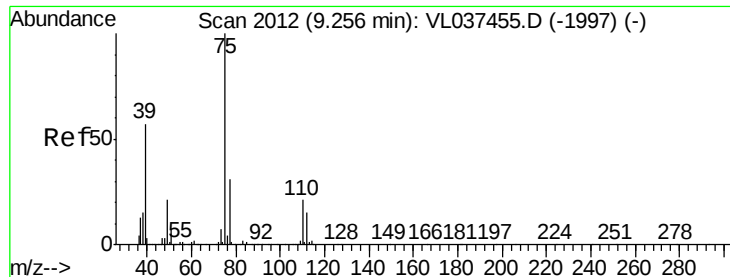
MMDadoda  
8/20/2021 6:31:46 PM



#44  
2,2,4-Trimethylpentane  
Concen: 10.101 ppbv  
RT: 7.87 min Scan# 1581  
Delta R.T. 0.02 min  
Lab File: VL037513.D  
Acq: 20 Aug 2021 8:43

Tgt Ion: 57 Resp: 6053766  
Ion Ratio Lower Upper  
57 100  
41 32.3 26.2 39.4  
56 31.3 25.4 38.2





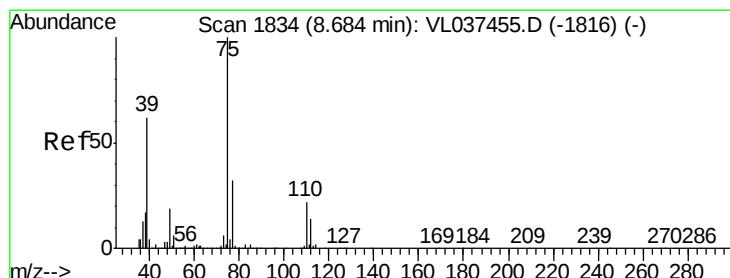
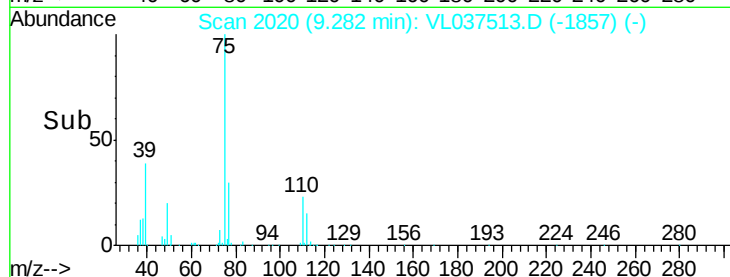
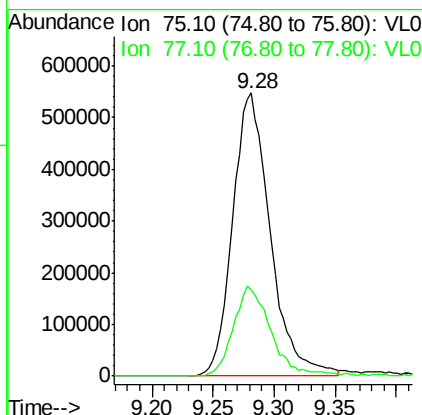
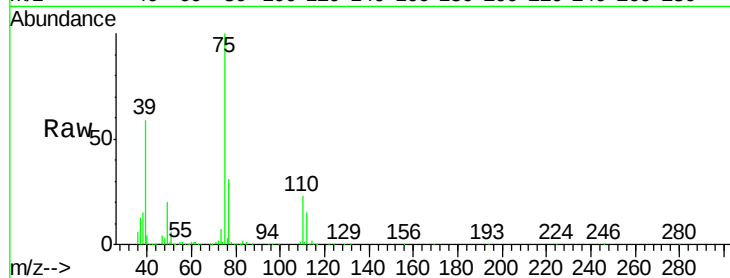
#45  
t-1,3-Dichloropropene  
Concen: 12.432 ppbv  
RT: 9.28 min Scan# 2020  
Delta R.T. 0.03 min  
Lab File: VL037513.D  
Acq: 20 Aug 2021 8:43

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

Tot Ion: 75 Resp: 1161580  
Ion Ratio Lower Upper  
75 100  
77 30.5 24.5 36.7

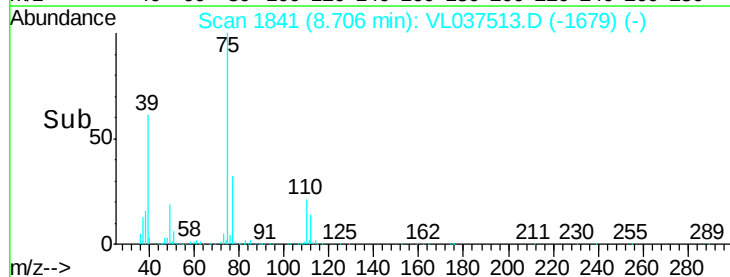
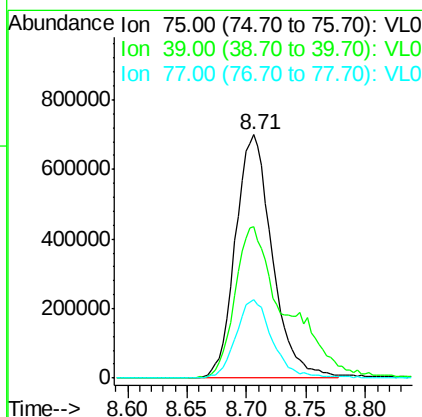
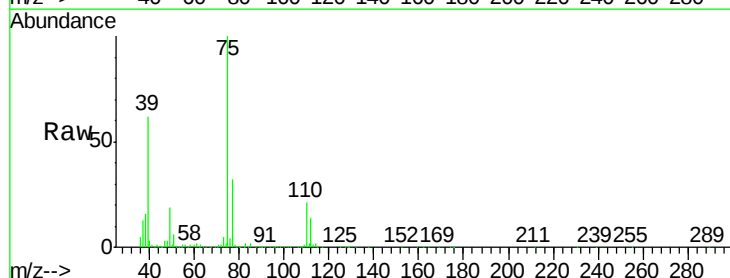
Manual Integrations  
APPROVED

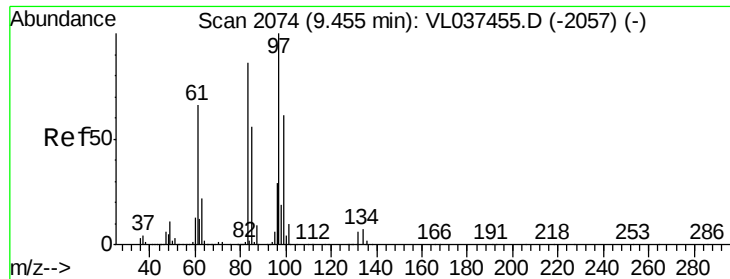
MMDadoda  
8/20/2021 6:31:46 PM



#46  
cis-1,3-Dichloropropene  
Concen: 11.500 ppbv  
RT: 8.71 min Scan# 1841  
Delta R.T. 0.02 min  
Lab File: VL037513.D  
Acq: 20 Aug 2021 8:43

Tgt Ion: 75 Resp: 1498839  
Ion Ratio Lower Upper  
75 100  
39 61.8 49.7 74.5  
77 32.2 25.4 38.0





#47  
 1,1,2-Trichloroethane  
 Concen: 9.947 ppbv  
 RT: 9.48 min Scan# 2081  
 Delta R.T. 0.02 min  
 Lab File: VL037513.D  
 Acq: 20 Aug 2021 8:43

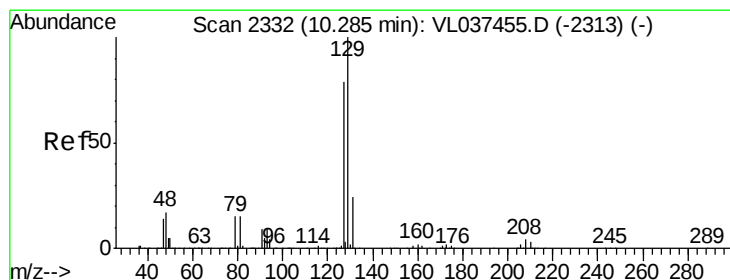
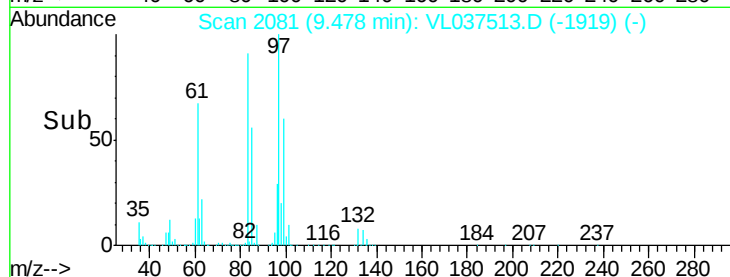
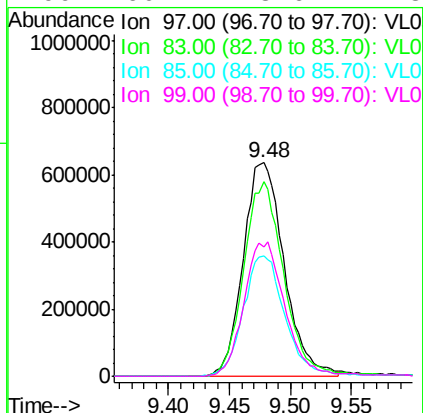
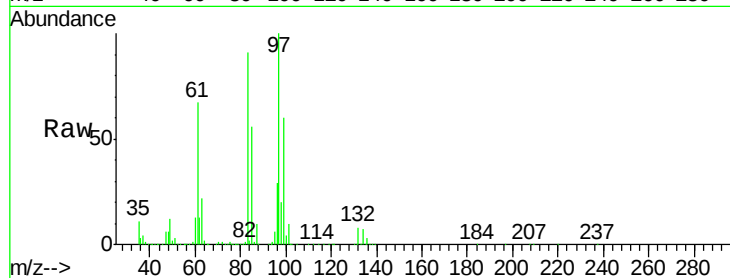
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Tot Ion: 97 Resp: 1470722

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 90.8  | 68.7  | 103.1 |
| 85  | 56.1  | 44.7  | 67.1  |
| 99  | 60.4  | 48.6  | 72.8  |

Manual Integrations  
 APPROVED

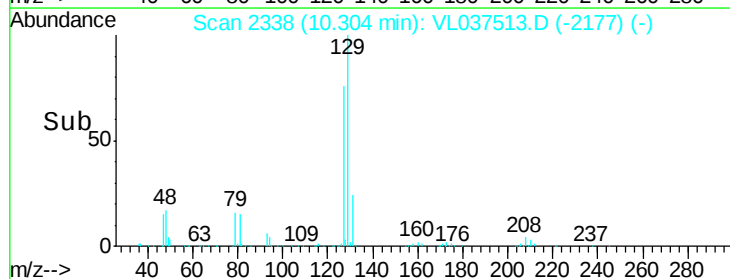
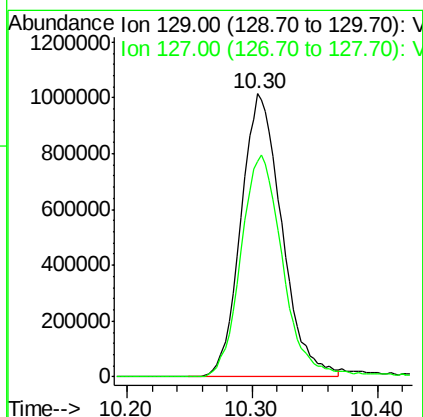
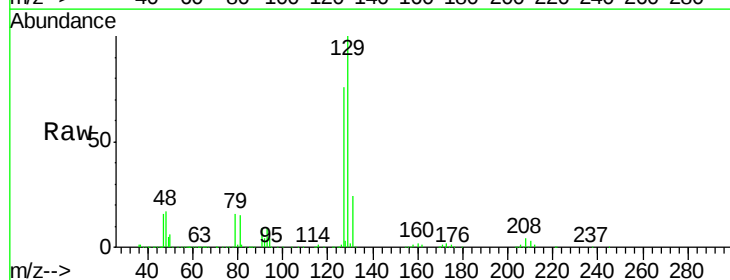
MMDadoda  
 8/20/2021 6:31:46 PM

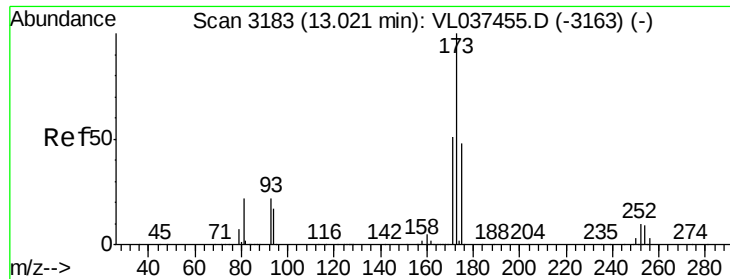


#48  
 Dibromochloromethane  
 Concen: 10.791 ppbv  
 RT: 10.30 min Scan# 2338  
 Delta R.T. 0.02 min  
 Lab File: VL037513.D  
 Acq: 20 Aug 2021 8:43

Tgt Ion: 129 Resp: 2296105

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 81.1  | 40.0  | 120.0 |





#49

Bromoform

Concen: 11.358 ppbv

RT: 13.04 min Scan# 3189

Delta R.T. 0.02 min

Lab File: VL037513.D

Acq: 20 Aug 2021 8:43

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:173 Resp: 1904878

Ion Ratio Lower Upper

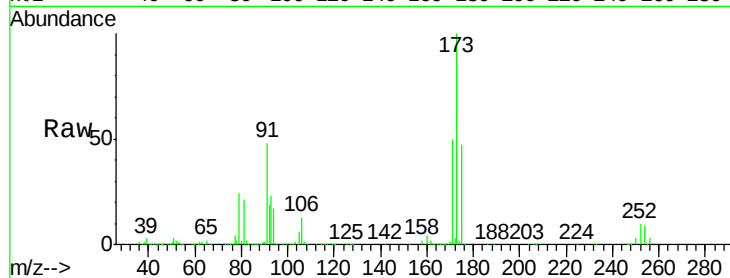
173 100

175 52.8 41.9 62.9

171 56.1 44.2 66.4

Manual Integrations  
APPROVED

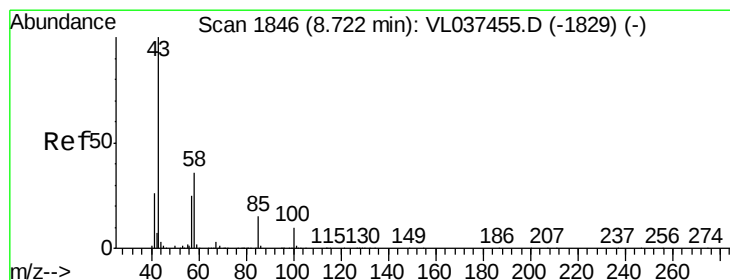
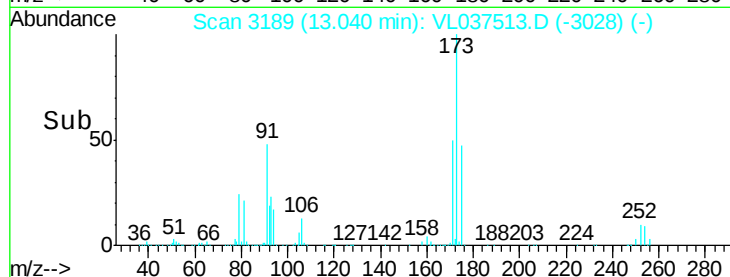
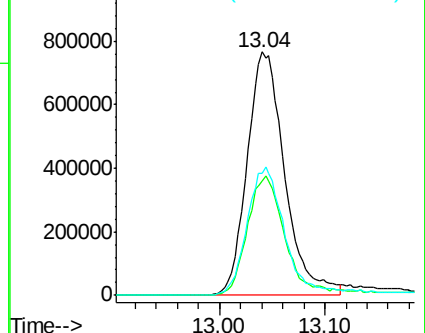
MMDadoda  
8/20/2021 6:31:46 PM



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 10.887 ppbv

RT: 8.74 min Scan# 1853

Delta R.T. 0.02 min

Lab File: VL037513.D

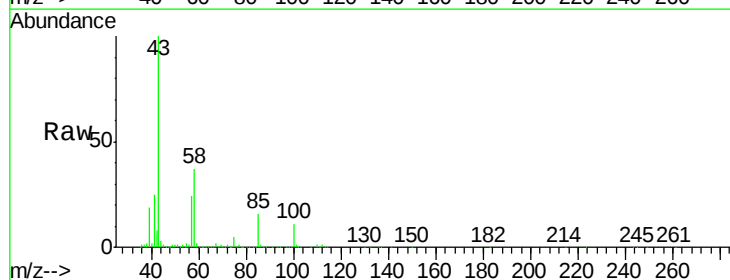
Acq: 20 Aug 2021 8:43

Tgt Ion: 43 Resp: 2456849

Ion Ratio Lower Upper

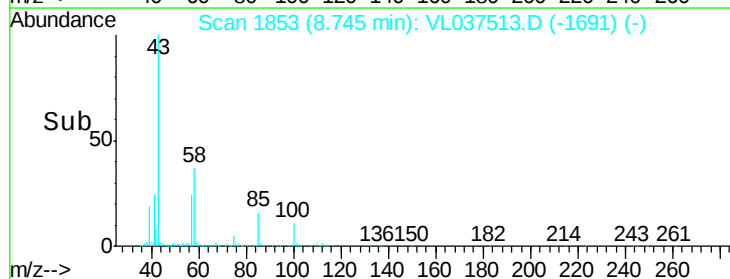
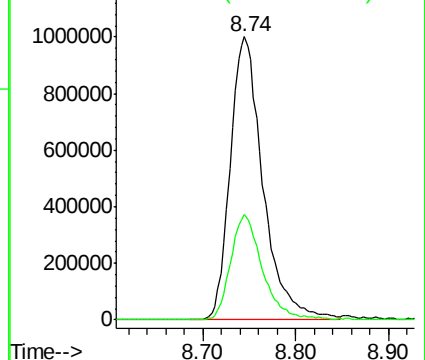
43 100

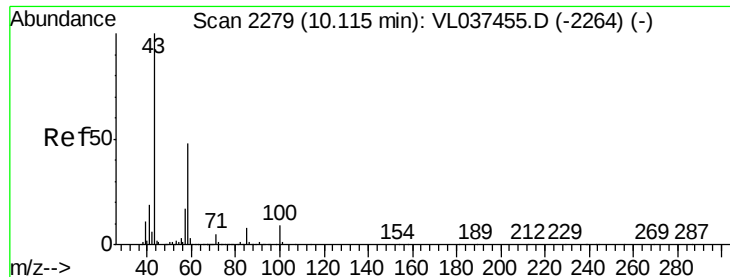
58 36.6 29.9 44.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 11.171 ppbv

RT: 10.14 min Scan# 2287

Delta R.T. 0.03 min

Lab File: VL037513.D

Acq: 20 Aug 2021 8:43

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1159528

Ion Ratio Lower Upper

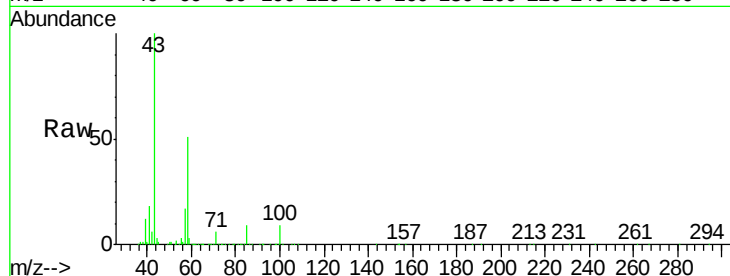
43 100

58 51.0 41.0 61.6

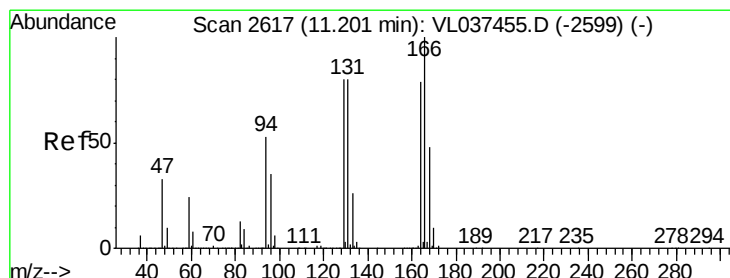
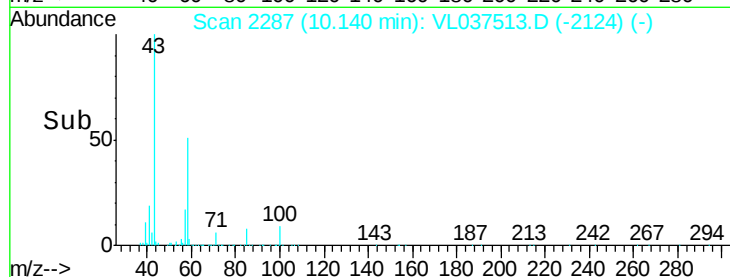
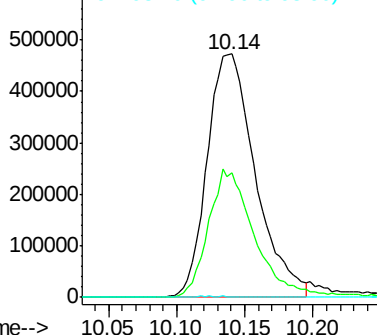
98 0.7 0.3 0.5#

Manual Integrations  
APPROVED

MMDadoda  
8/20/2021 6:31:46 PM



Abundance Ion 43.10 (42.80 to 43.80): VL0  
Ion 58.10 (57.80 to 58.80): VL0  
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 9.244 ppbv

RT: 11.23 min Scan# 2625

Delta R.T. 0.03 min

Lab File: VL037513.D

Acq: 20 Aug 2021 8:43

Tgt Ion: 164 Resp: 1348909

Ion Ratio Lower Upper

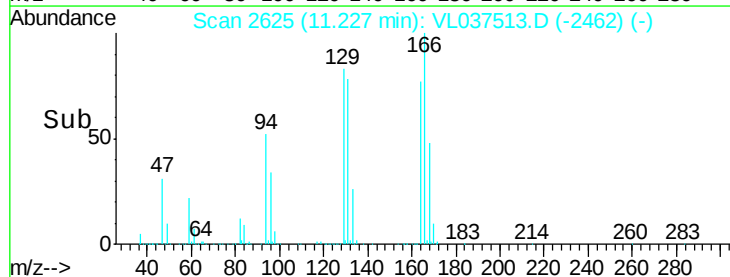
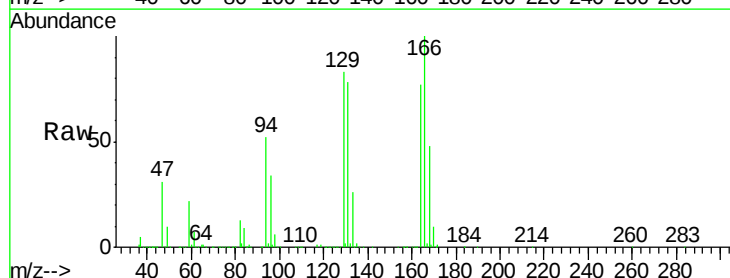
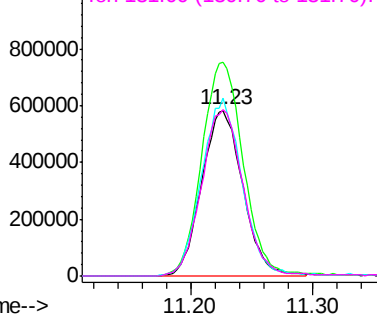
164 100

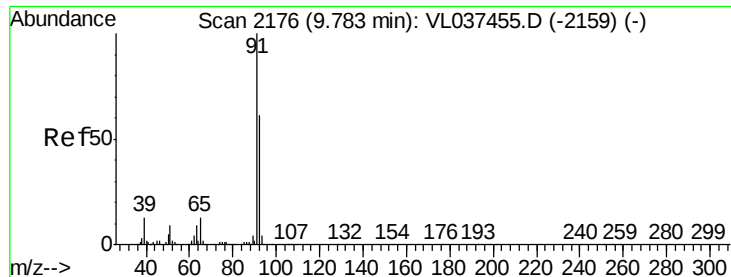
166 129.2 100.7 151.1

129 107.3 80.9 121.3

131 101.0 80.2 120.4

Abundance Ion 163.90 (163.60 to 164.60): V  
Ion 165.90 (165.60 to 166.60): V  
Ion 129.00 (128.70 to 129.70): V  
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 10.419 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. 0.03 min

Lab File: VL037513.D

Acq: 20 Aug 2021 8:43

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 4236489

Ion Ratio Lower Upper

91 100

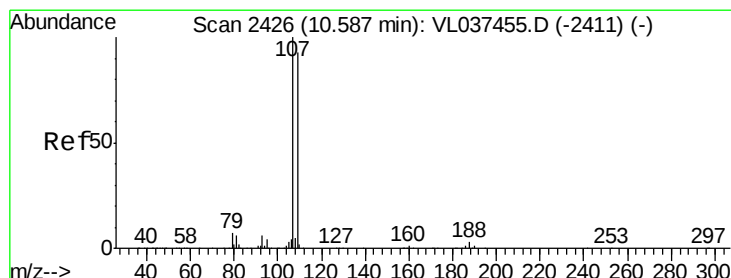
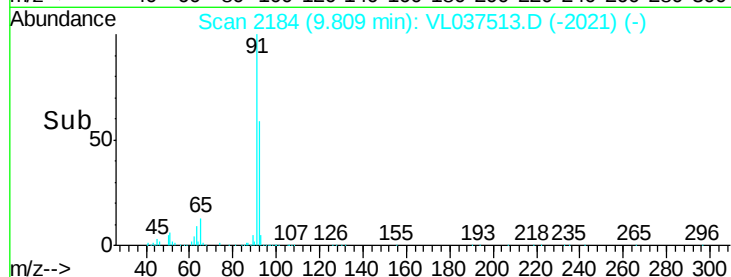
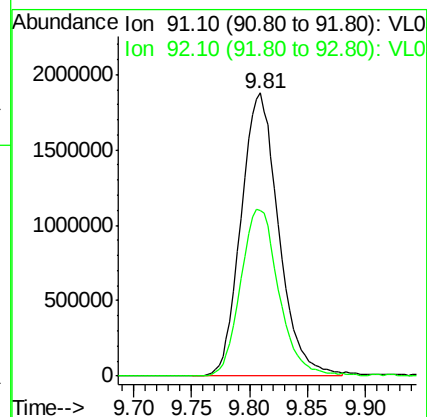
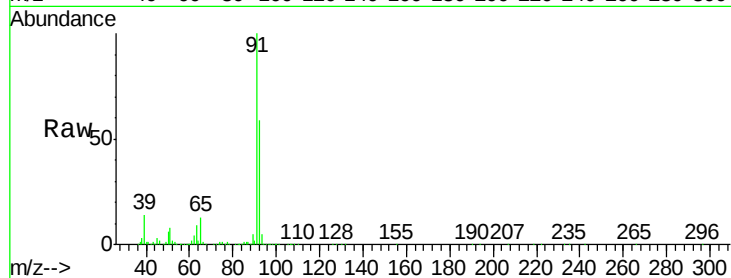
92 60.9 48.8 73.2

Manual Integrations

APPROVED

MMDadoda

8/20/2021 6:31:46 PM



#54

1,2-Dibromoethane

Concen: 10.211 ppbv

RT: 10.61 min Scan# 2434

Delta R.T. 0.03 min

Lab File: VL037513.D

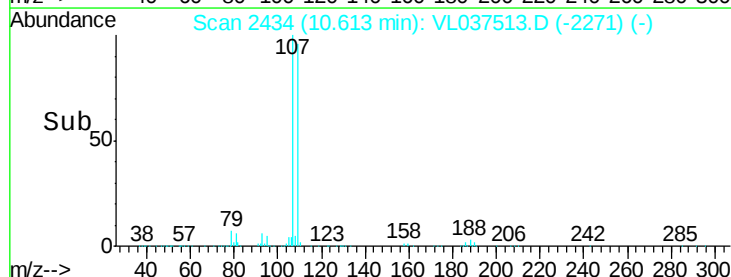
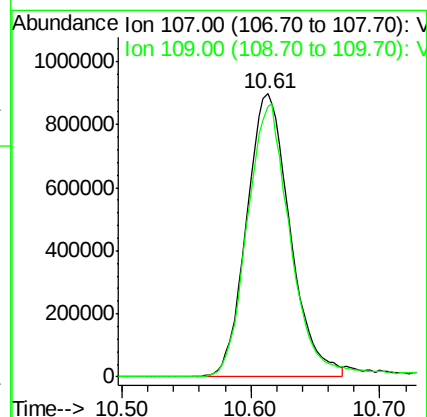
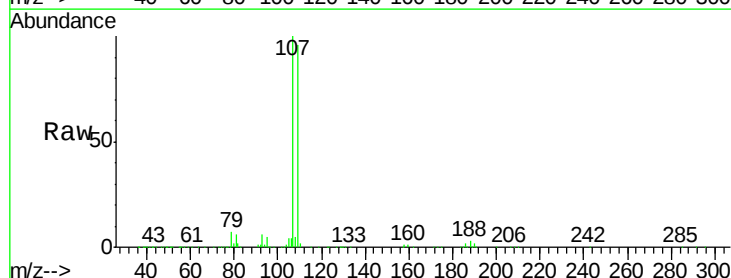
Acq: 20 Aug 2021 8:43

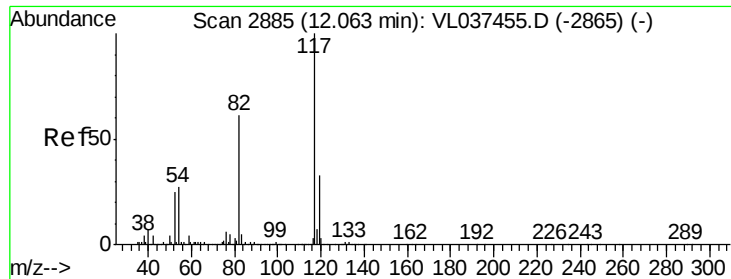
Tgt Ion: 107 Resp: 2107681

Ion Ratio Lower Upper

107 100

109 95.8 74.2 111.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv m

RT: 12.09 min Scan# 2893

Delta R.T. 0.03 min

Lab File: VL037513.D

Acq: 20 Aug 2021 8:43

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 4052553

Ion Ratio Lower Upper

117 100

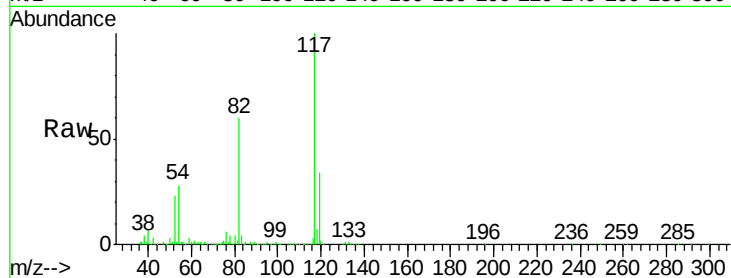
82 58.9 52.9 79.3

119 30.3 24.8 37.2

Manual Integrations  
APPROVED

MMDadoda

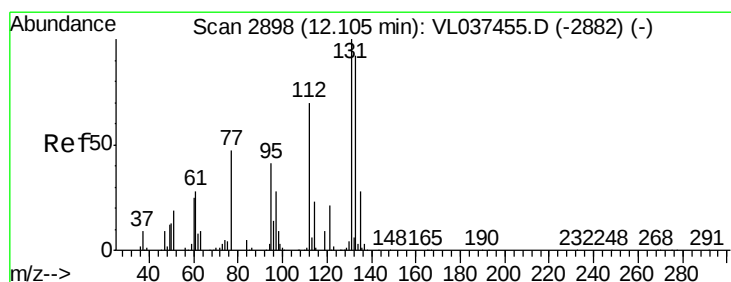
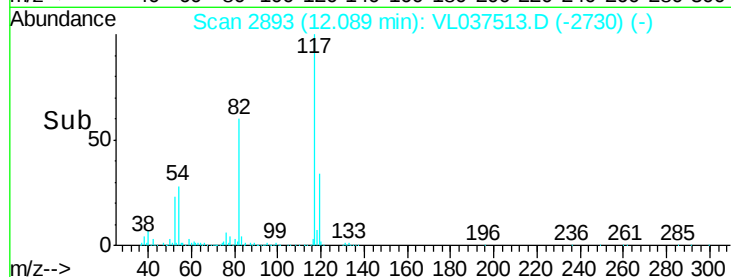
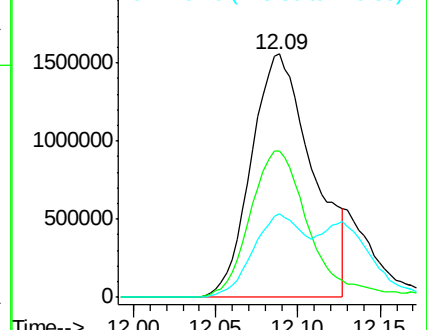
8/20/2021 6:31:46 PM



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 9.380 ppbv

RT: 12.13 min Scan# 2905

Delta R.T. 0.02 min

Lab File: VL037513.D

Acq: 20 Aug 2021 8:43

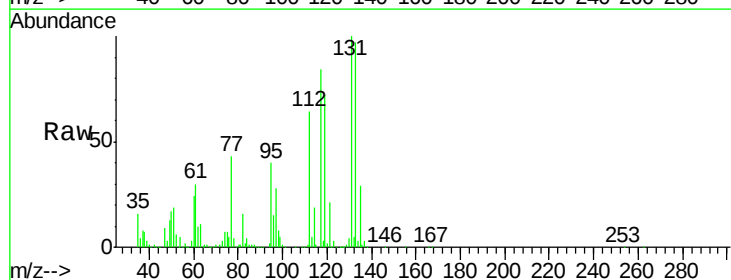
Tgt Ion:131 Resp: 1584028

Ion Ratio Lower Upper

131 100

133 100.5 78.7 118.1

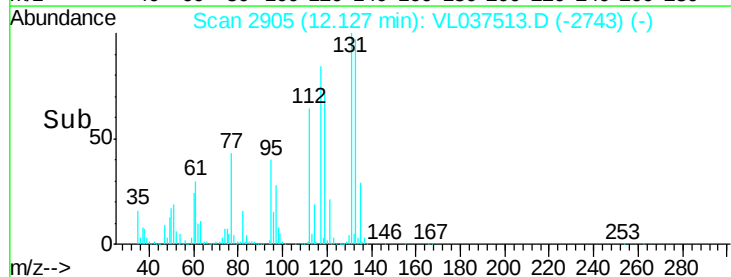
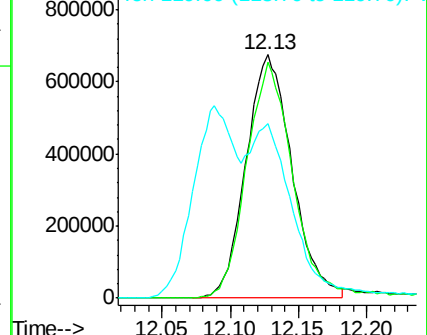
119 70.6 56.6 85.0

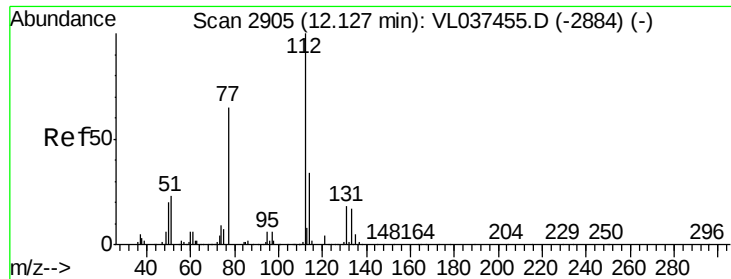


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





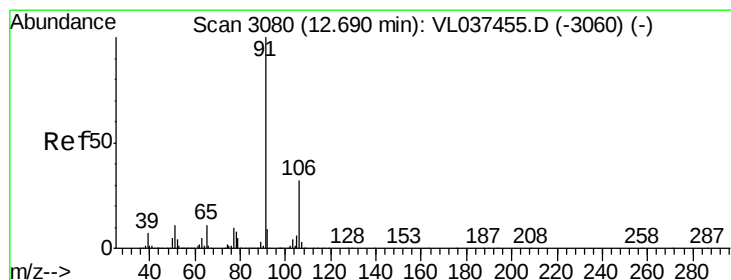
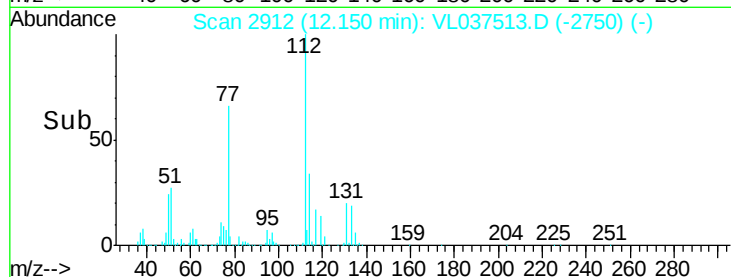
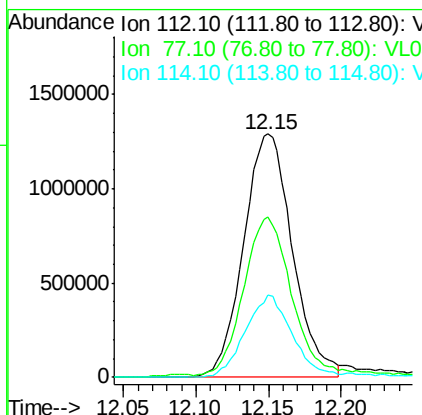
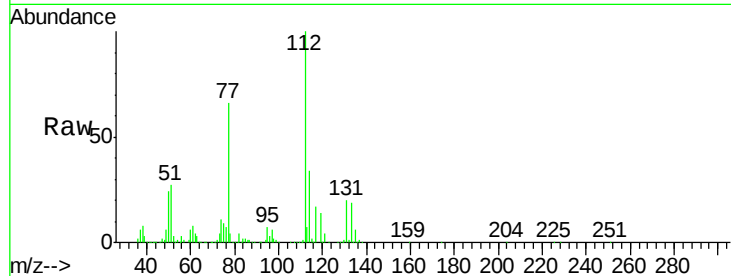
#57  
Chlorobenzene  
Concen: 8.978 ppbv  
RT: 12.15 min Scan# 2912  
Delta R.T. 0.02 min  
Lab File: VL037513.D  
Acq: 20 Aug 2021 8:43

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 77      | 64.7  | 51.6  | 77.4  |
| 114     | 33.9  | 30.7  | 37.5  |

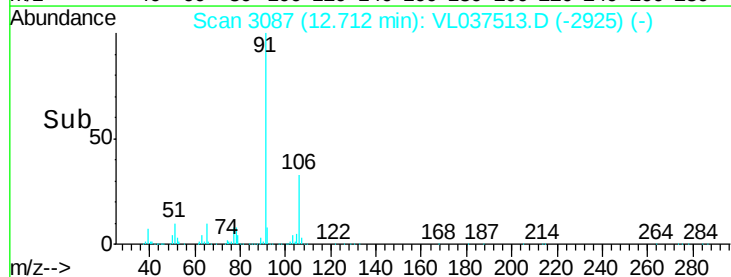
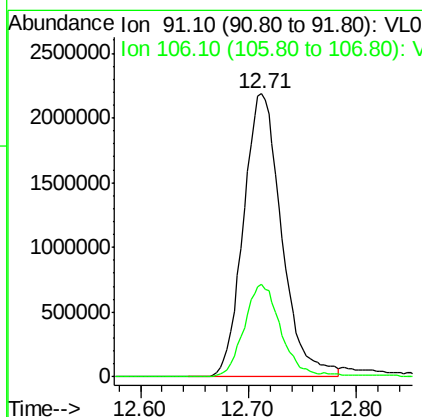
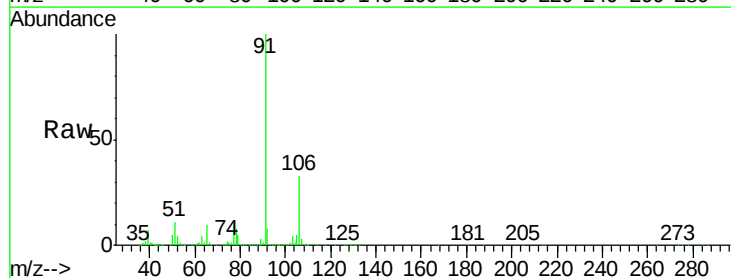
Manual Integrations  
APPROVED

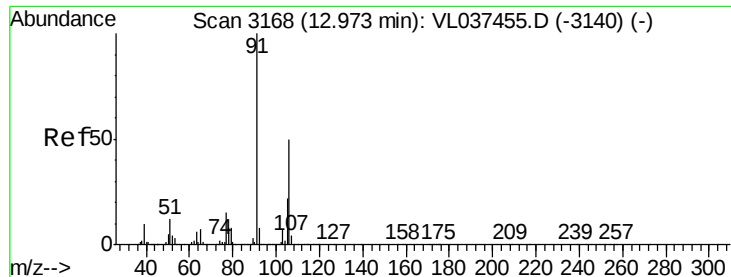
MMDadoda  
8/20/2021 6:31:46 PM



#58  
Ethyl Benzene  
Concen: 9.569 ppbv  
RT: 12.71 min Scan# 3087  
Delta R.T. 0.02 min  
Lab File: VL037513.D  
Acq: 20 Aug 2021 8:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 106     | 32.6  | 25.7  | 38.5  |





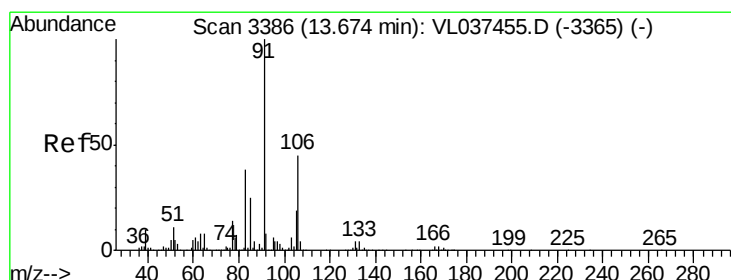
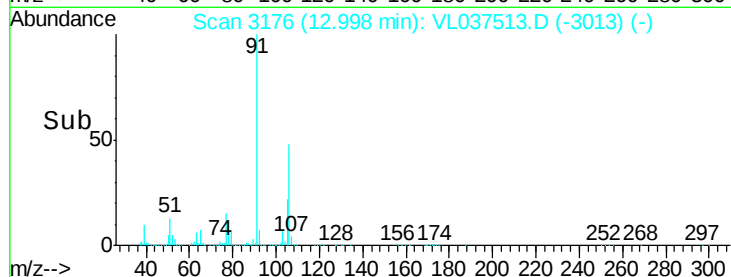
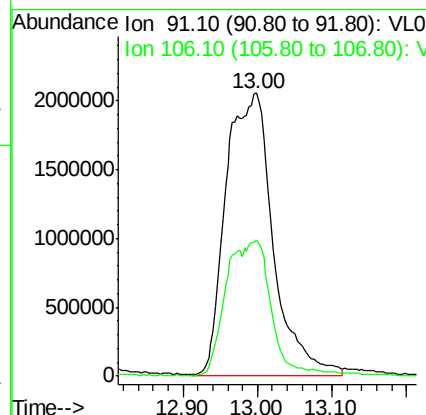
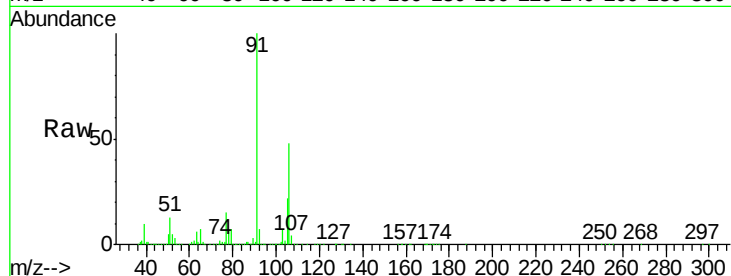
#59  
m/p-Xylene  
Concen: 18.666 ppbv m  
RT: 13.00 min Scan# 3176  
Delta R.T. 0.03 min  
Lab File: VL037513.D  
Acq: 20 Aug 2021 8:43

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

Tot Ion: 91 Resp: 9100386  
Ion Ratio Lower Upper  
91 100  
106 46.5 36.9 55.3

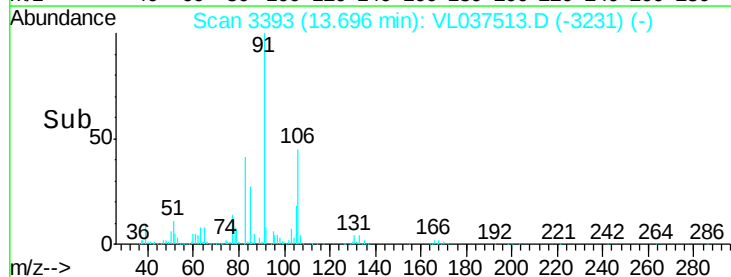
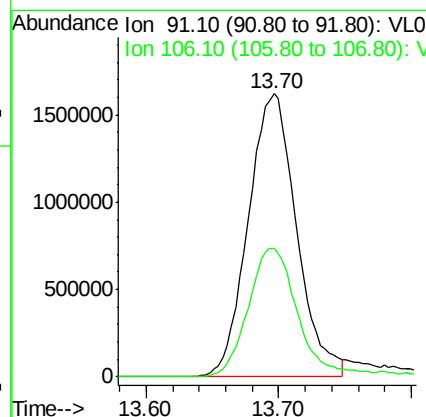
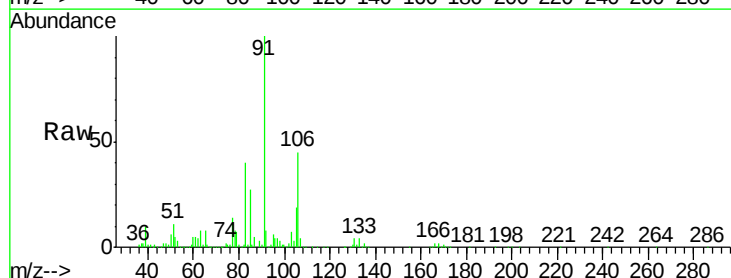
Manual Integrations  
APPROVED

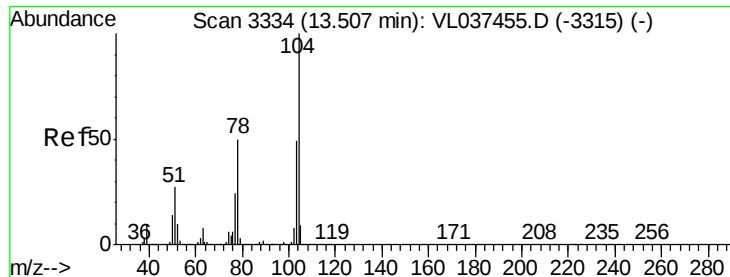
MMDadoda  
8/20/2021 6:31:46 PM



#60  
o-Xylene  
Concen: 8.998 ppbv  
RT: 13.70 min Scan# 3393  
Delta R.T. 0.02 min  
Lab File: VL037513.D  
Acq: 20 Aug 2021 8:43

Tgt Ion: 91 Resp: 4094322  
Ion Ratio Lower Upper  
91 100  
106 48.9 23.7 71.1





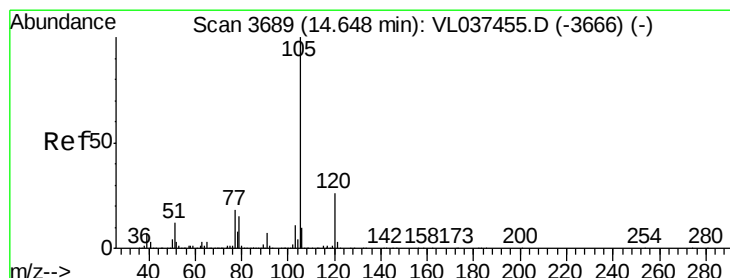
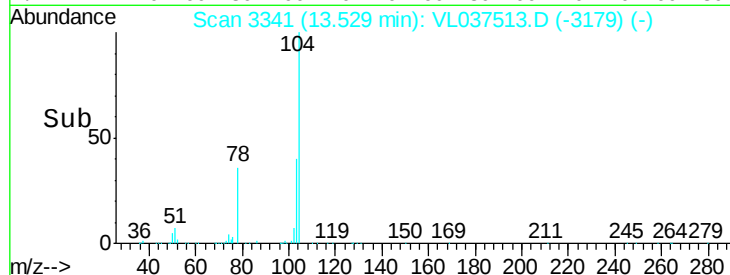
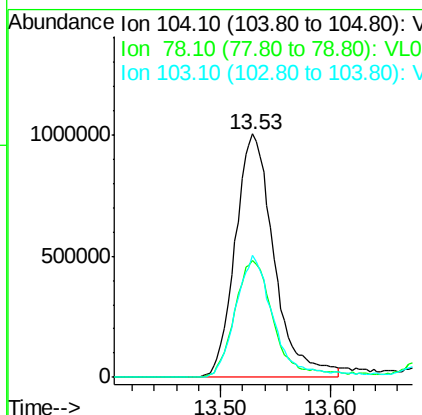
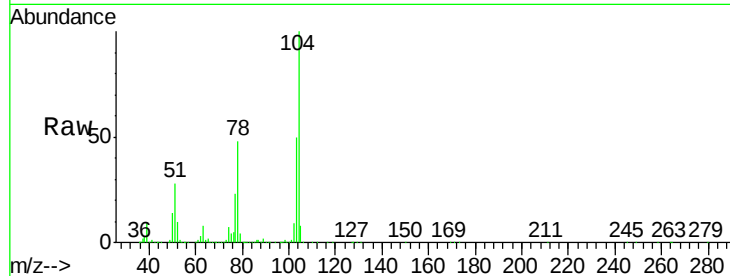
#61  
Stvrene  
Concen: 10.371 ppbv  
RT: 13.53 min Scan# 3341  
Delta R.T. 0.02 min  
Lab File: VL037513.D  
Acq: 20 Aug 2021 8:43

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 104     | 100   |       |       |
| 78      | 49.7  | 41.3  | 61.9  |
| 103     | 49.3  | 39.4  | 59.0  |

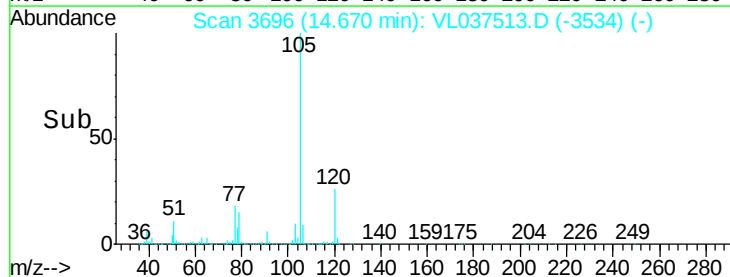
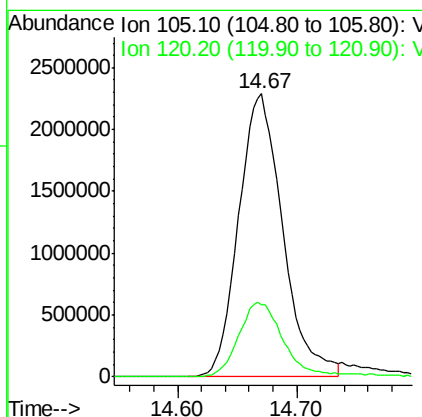
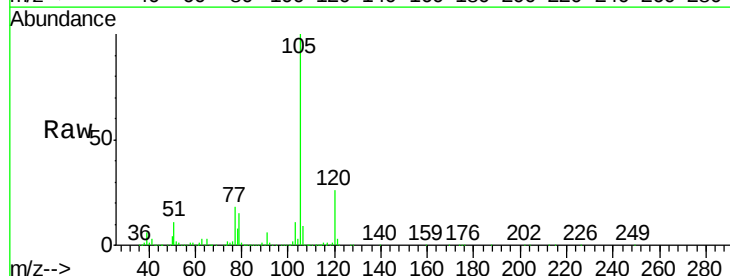
Manual Integrations  
APPROVED

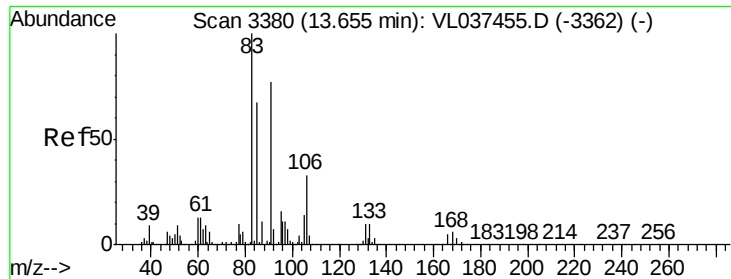
MMDadoda  
8/20/2021 6:31:46 PM



#62  
Isopropylbenzene  
Concen: 9.142 ppbv  
RT: 14.67 min Scan# 3696  
Delta R.T. 0.02 min  
Lab File: VL037513.D  
Acq: 20 Aug 2021 8:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 27.5  | 21.5  | 32.3  |





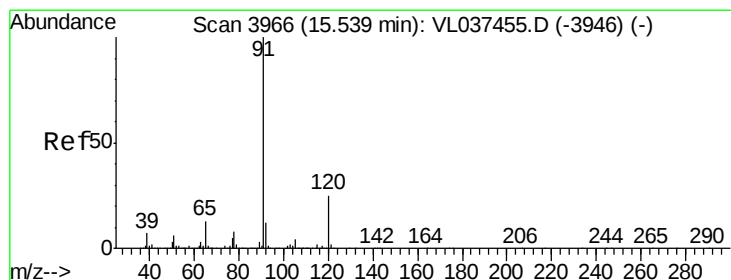
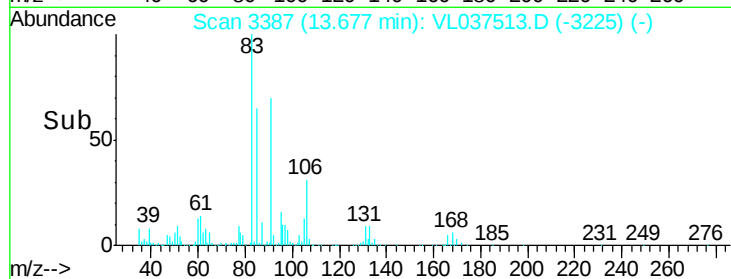
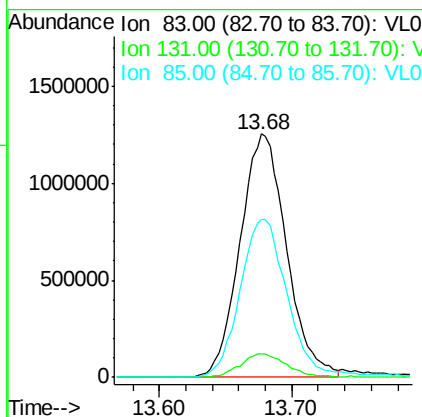
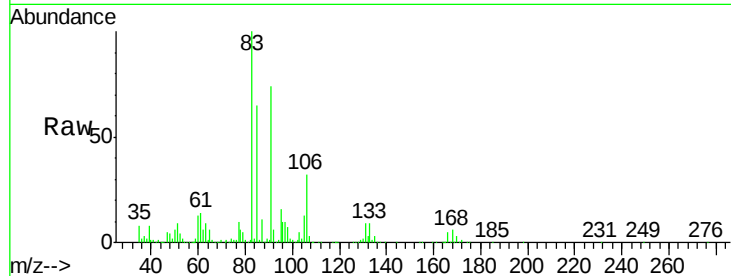
#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 8.992 ppbv  
 RT: 13.68 min Scan# 3387  
 Delta R.T. 0.02 min  
 Lab File: VL037513.D  
 Acq: 20 Aug 2021 8:43

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Tot Ion: 83 Resp: 3041123  
 Ion Ratio Lower Upper  
 83 100  
 131 10.1 5.0 15.0  
 85 68.0 33.8 101.3

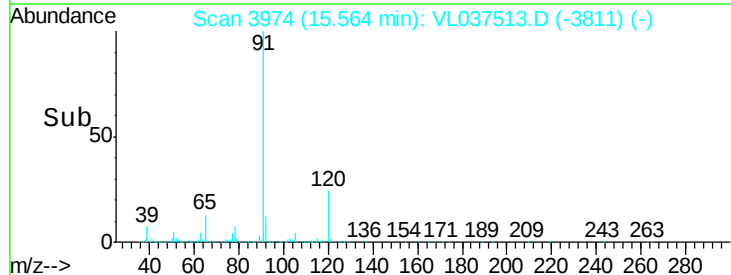
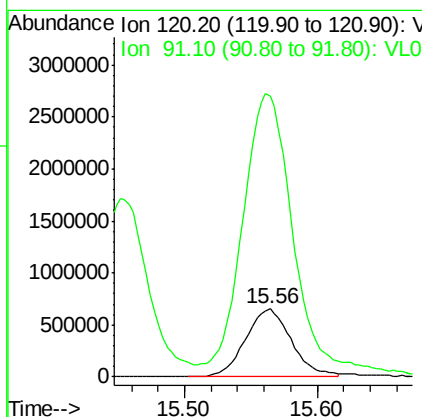
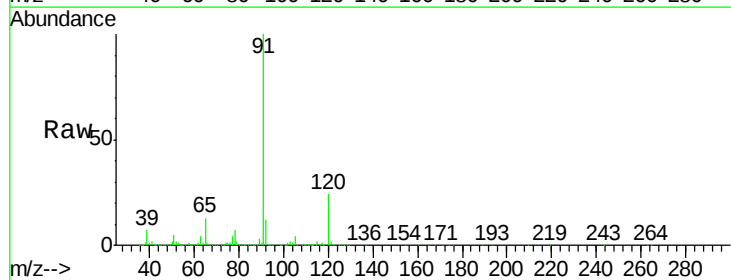
Manual Integrations  
 APPROVED

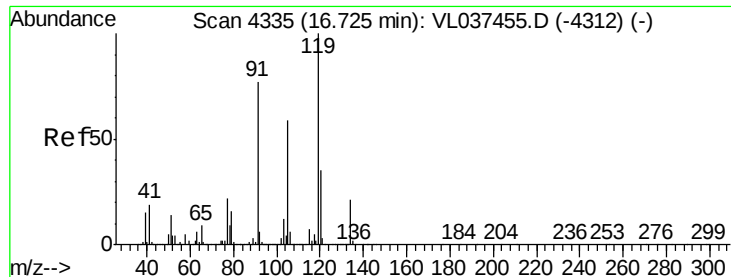
MMDadoda  
 8/20/2021 6:31:46 PM



#64  
 n-propylbenzene  
 Concen: 9.631 ppbv  
 RT: 15.56 min Scan# 3974  
 Delta R.T. 0.03 min  
 Lab File: VL037513.D  
 Acq: 20 Aug 2021 8:43

Tgt Ion: 120 Resp: 1574150  
 Ion Ratio Lower Upper  
 120 100  
 91 468.9 373.8 560.6





#65

tert-Butylbenzene

Concen: 9.073 ppbv

RT: 16.75 min Scan# 4342

Delta R.T. 0.02 min

Lab File: VL037513.D

Acq: 20 Aug 2021 8:43

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:119 Resp: 5306598

Ion Ratio Lower Upper

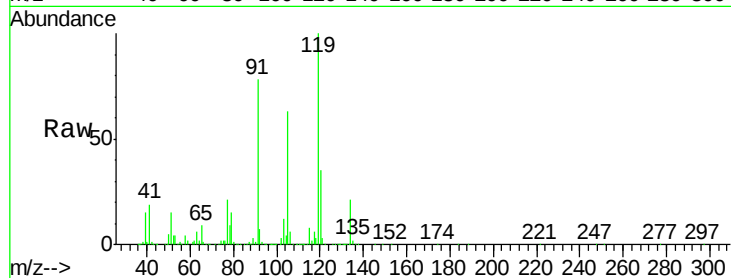
119 100

91 77.6 62.9 94.3

134 20.8 16.4 24.6

Manual Integrations  
APPROVED

MMDadoda  
8/20/2021 6:31:46 PM



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V

2500000

2000000

1500000

1000000

500000

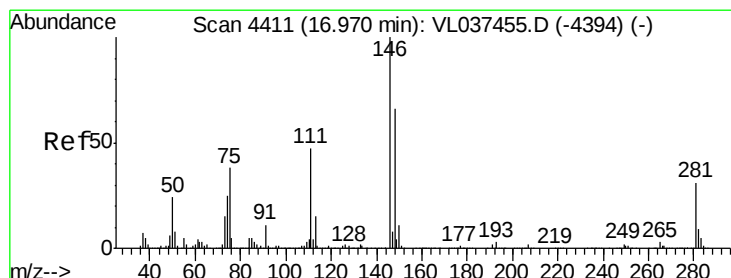
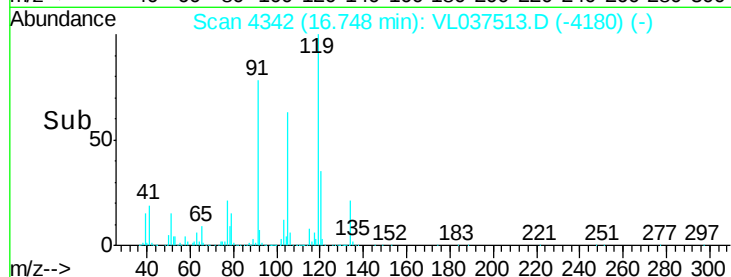
0

16.75

16.70

16.80

Time-->



#66

Benzyl Chloride

Concen: 14.263 ppbv m

RT: 16.99 min Scan# 4418

Delta R.T. 0.02 min

Lab File: VL037513.D

Acq: 20 Aug 2021 8:43

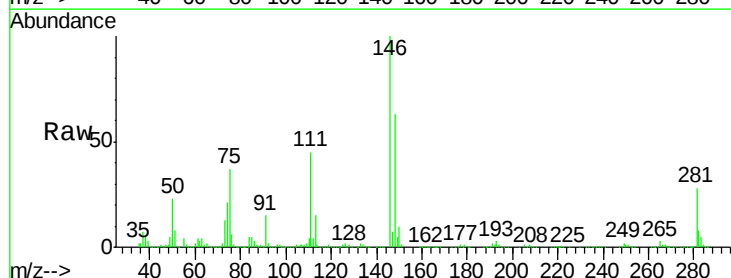
Tgt Ion: 91 Resp: 377369

Ion Ratio Lower Upper

91 100

126 20.1 15.9 23.9

128 7.3 5.4 8.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V

200000

150000

100000

50000

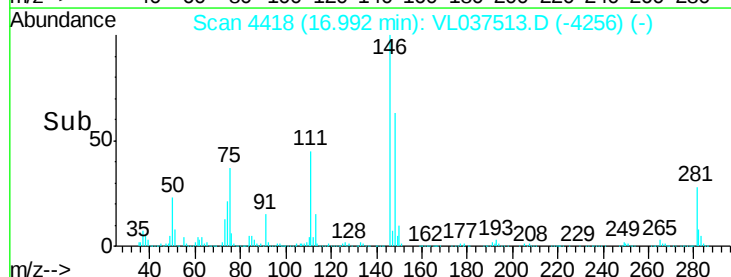
0

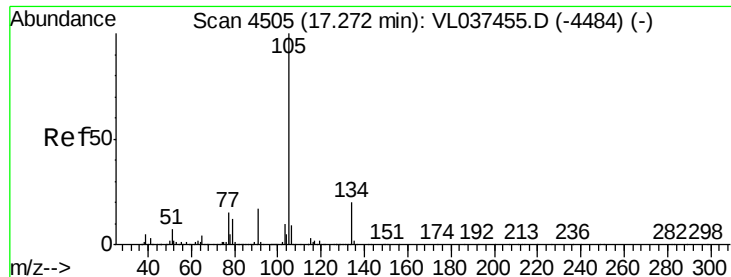
16.99

16.95

17.00

Time-->





#67

sec-Butylbenzene

Concen: 9.072 ppbv

RT: 17.29 min Scan# 4512

Delta R.T. 0.02 min

Lab File: VL037513.D

Acq: 20 Aug 2021 8:43

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 105 Resp: 7414504

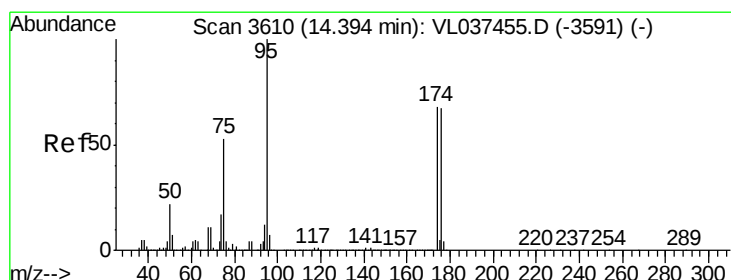
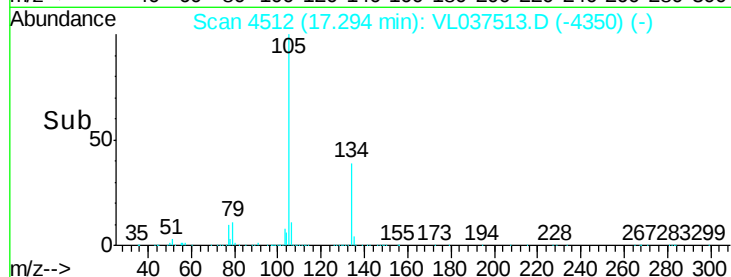
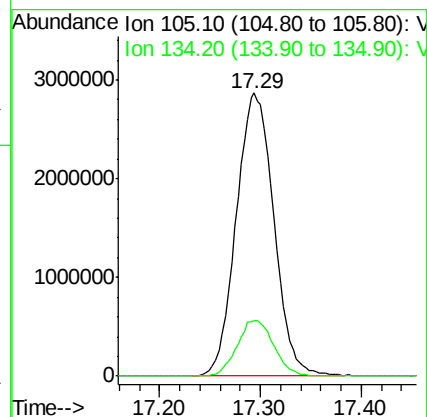
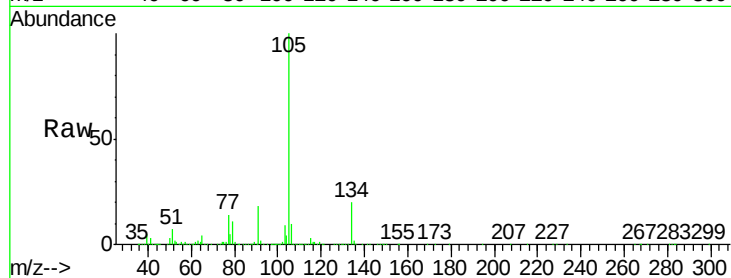
Ion Ratio Lower Upper

105 100

134 19.3 15.2 22.8

Manual Integrations  
APPROVED

MMDadoda  
8/20/2021 6:31:46 PM



#68

1-Bromo-4-Fluorobenzene

Concen: 9.411 ppbv

RT: 14.42 min Scan# 3617

Delta R.T. 0.02 min

Lab File: VL037513.D

Acq: 20 Aug 2021 8:43

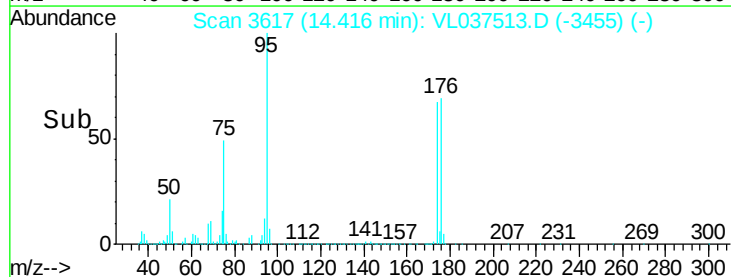
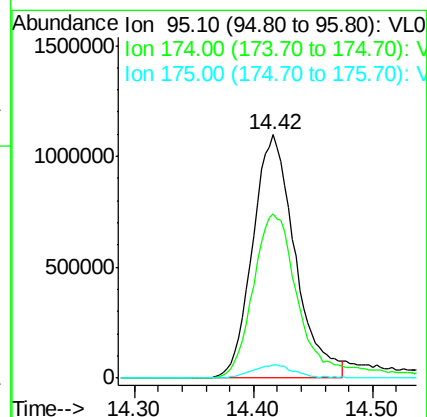
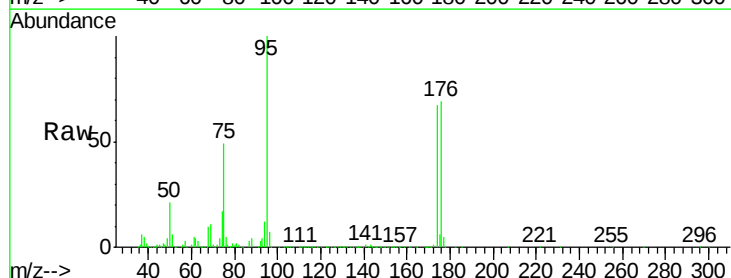
Tgt Ion: 95 Resp: 2709512

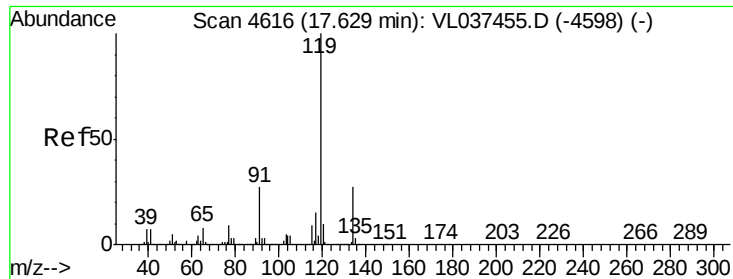
Ion Ratio Lower Upper

95 100

174 75.7 59.6 89.4

175 5.4 4.6 7.0





#69

p-Isopropyltoluene

Concen: 9.394 ppbv

RT: 17.65 min Scan# 4623

Delta R.T. 0.02 min

Lab File: VL037513.D

Acq: 20 Aug 2021 8:43

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 119 Resp: 6256104

Ion Ratio Lower Upper

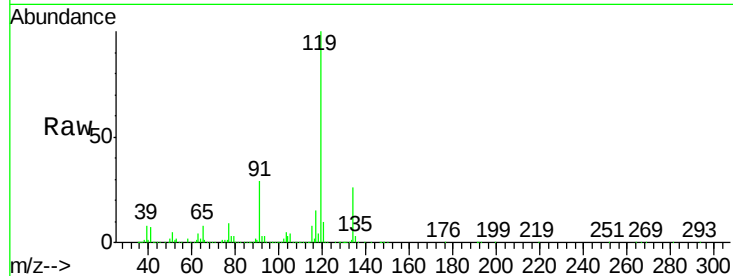
119 100

134 26.2 21.1 31.7

91 27.4 22.4 33.6

Manual Integrations  
APPROVED

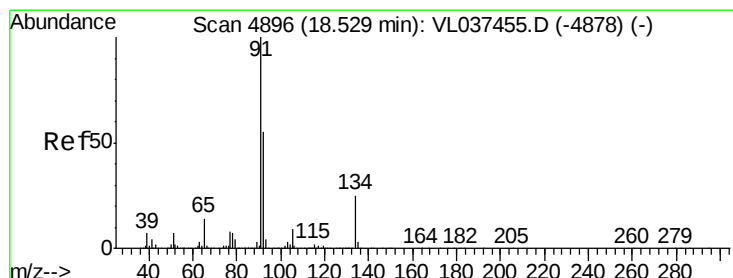
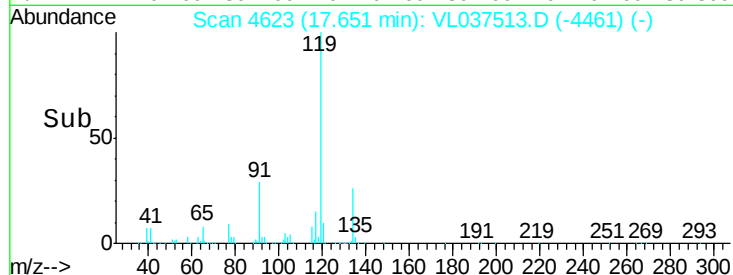
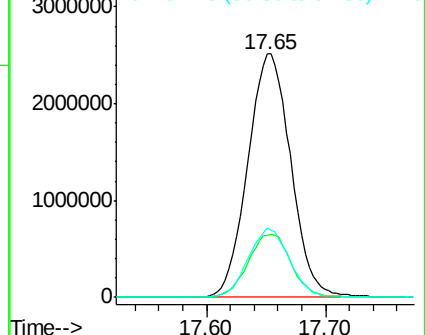
MMDadoda  
8/20/2021 6:31:46 PM



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: 9.685 ppbv

RT: 18.55 min Scan# 4903

Delta R.T. 0.02 min

Lab File: VL037513.D

Acq: 20 Aug 2021 8:43

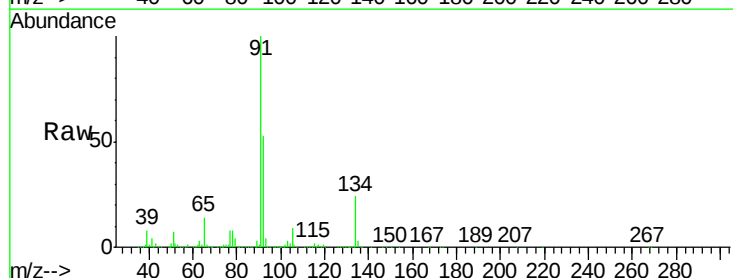
Tgt Ion: 91 Resp: 6164169

Ion Ratio Lower Upper

91 100

92 54.5 44.0 66.0

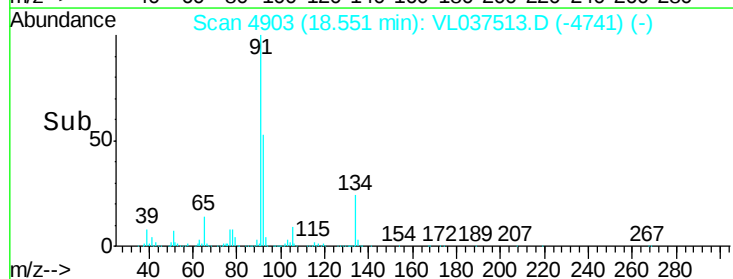
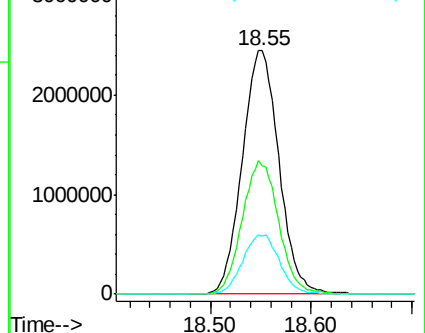
134 24.5 19.5 29.3

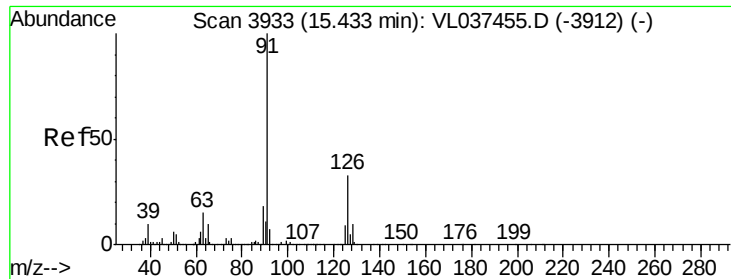


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V





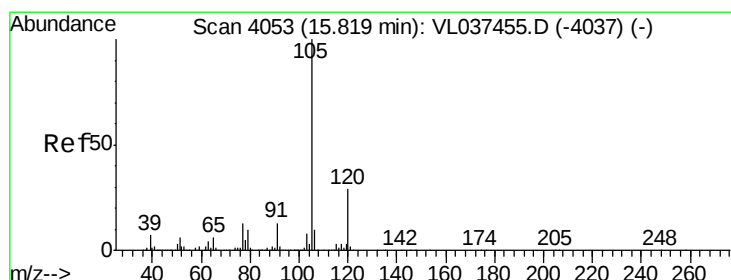
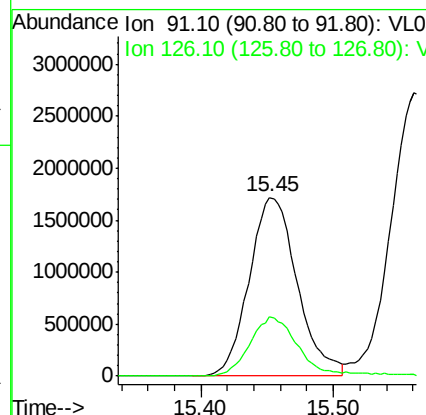
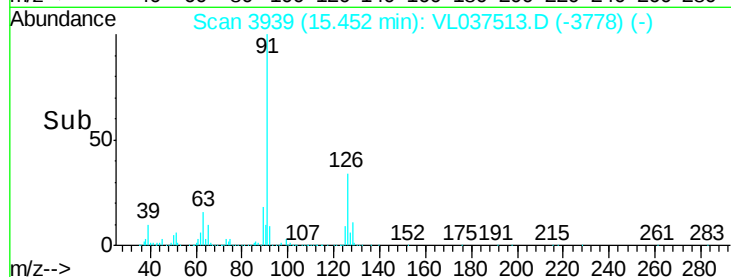
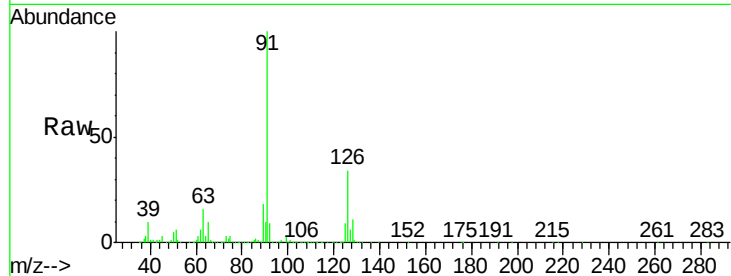
#71  
2-Chlorotoluene  
Concen: 9.174 ppbv  
RT: 15.45 min Scan# 3939  
Delta R.T. 0.02 min  
Lab File: VL037513.D  
Acq: 20 Aug 2021 8:43

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

Tot Ion: 91 Resp: 4320689  
Ion Ratio Lower Upper  
91 100  
126 34.5 13.6 54.4

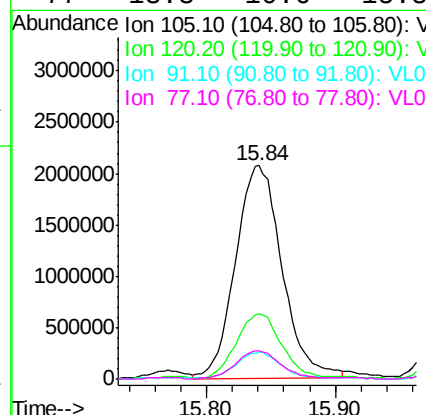
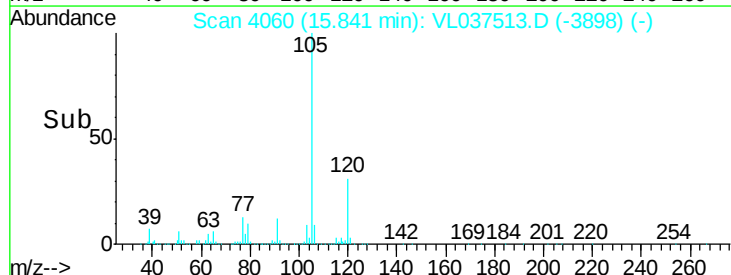
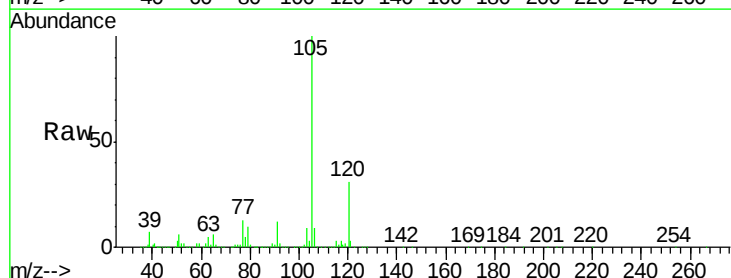
Manual Integrations  
APPROVED

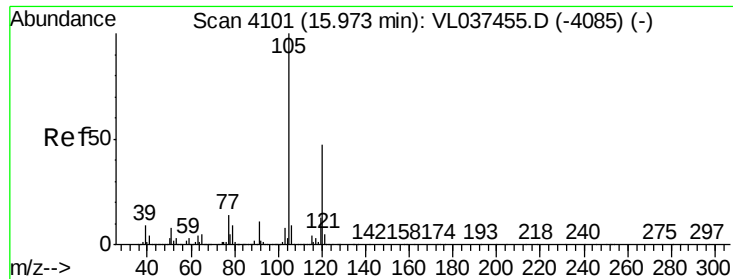
MMDadoda  
8/20/2021 6:31:46 PM



#72  
4-Ethyltoluene  
Concen: 9.592 ppbv  
RT: 15.84 min Scan# 4060  
Delta R.T. 0.02 min  
Lab File: VL037513.D  
Acq: 20 Aug 2021 8:43

Tgt Ion: 105 Resp: 5191943  
Ion Ratio Lower Upper  
105 100  
120 30.8 24.7 37.1  
91 12.1 9.8 14.8  
77 13.3 10.6 15.8





#73

1,3,5-Trimethylbenzene

Concen: 9.136 ppbv

RT: 16.00 min Scan# 4109

Delta R.T. 0.03 min

Lab File: VL037513.D

Acq: 20 Aug 2021 8:43

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 4603072

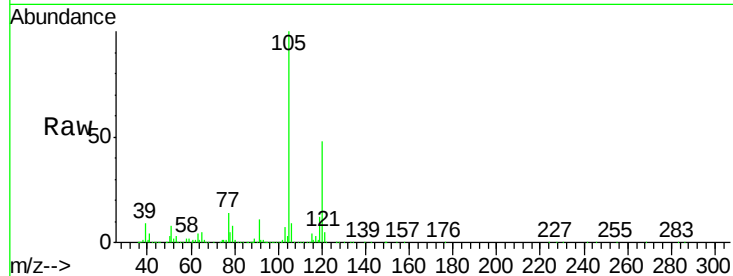
Ion Ratio Lower Upper

105 100

120 48.0 37.6 56.4

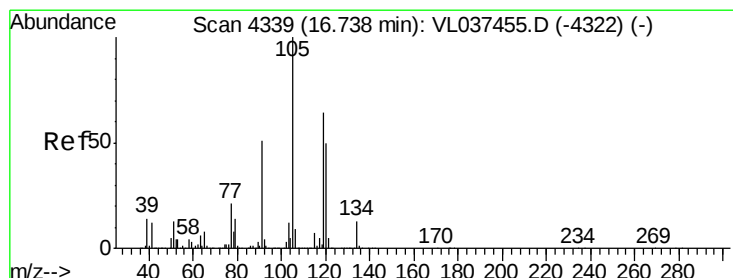
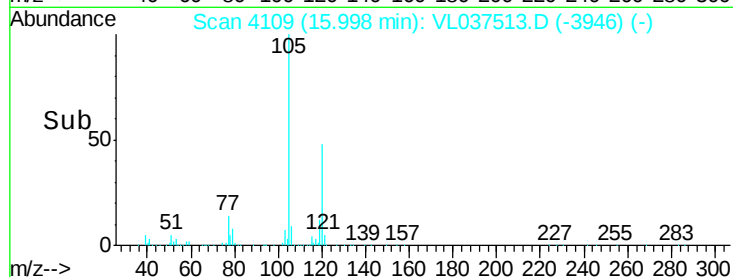
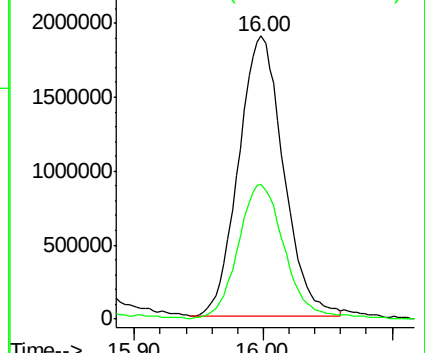
Manual Integrations  
APPROVED

MMDadoda  
8/20/2021 6:31:46 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 9.143 ppbv

RT: 16.77 min Scan# 4348

Delta R.T. 0.03 min

Lab File: VL037513.D

Acq: 20 Aug 2021 8:43

Tgt Ion:105 Resp: 4895050

Ion Ratio Lower Upper

105 100

120 49.3 40.4 60.6

91 41.3 44.6 67.0#

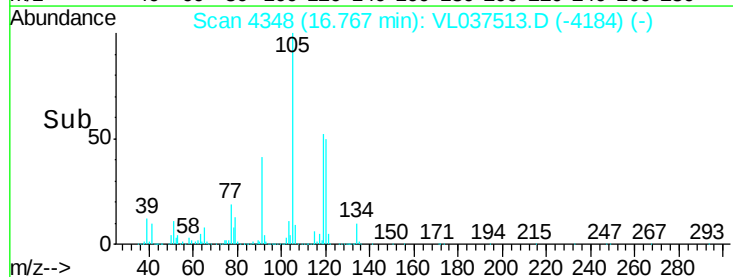
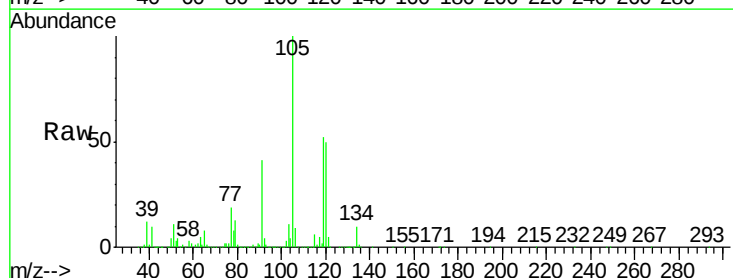
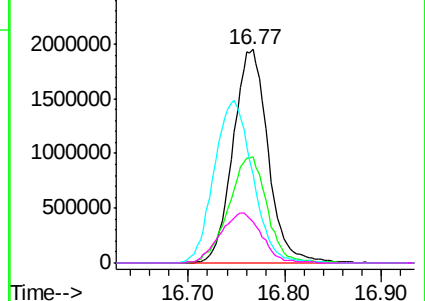
77 19.0 17.8 26.6

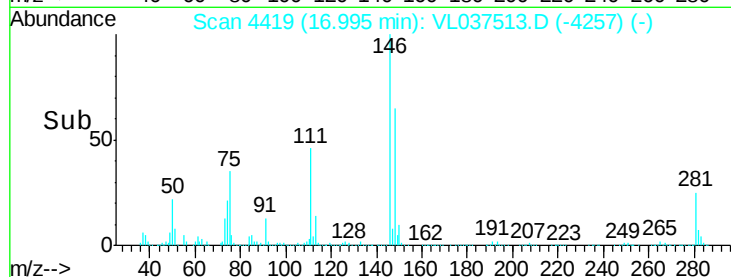
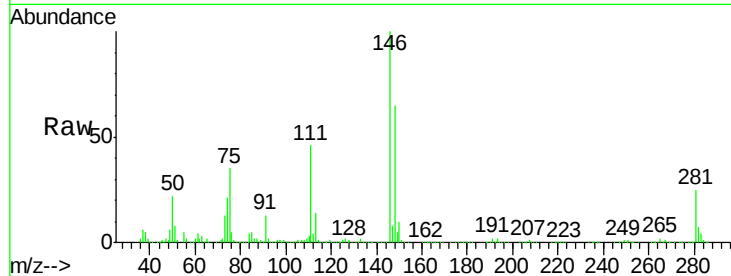
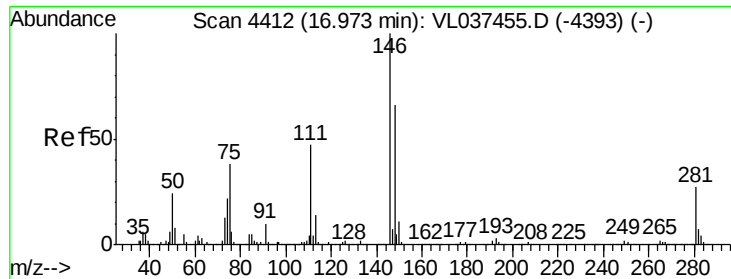
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





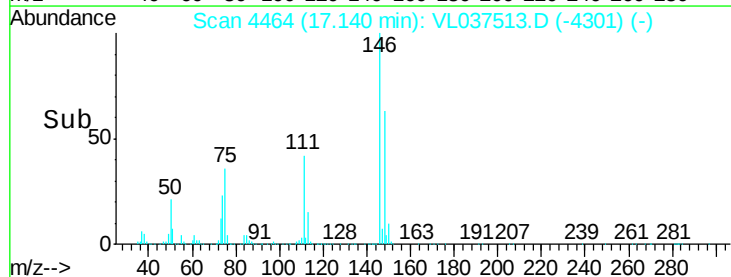
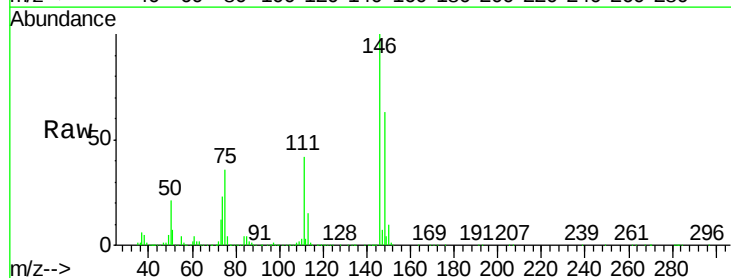
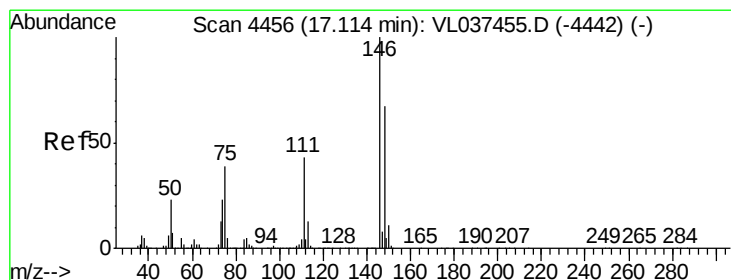
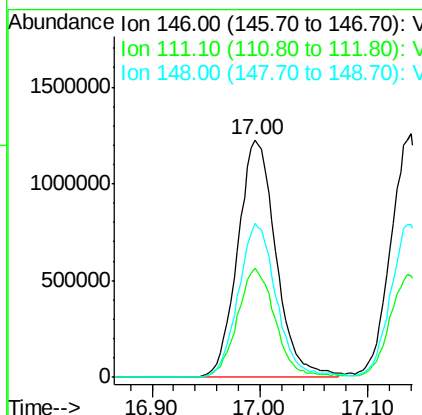
#75  
1,3-Dichlorobenzene  
Concen: 9.421 ppbv  
RT: 17.00 min Scan# 4419  
Delta R.T. 0.02 min  
Lab File: VL037513.D  
Acq: 20 Aug 2021 8:43

Tot Ion:146 Resp: 3036013  
Ion Ratio Lower Upper  
146 100  
111 45.5 23.4 70.0  
148 64.6 33.1 99.5

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

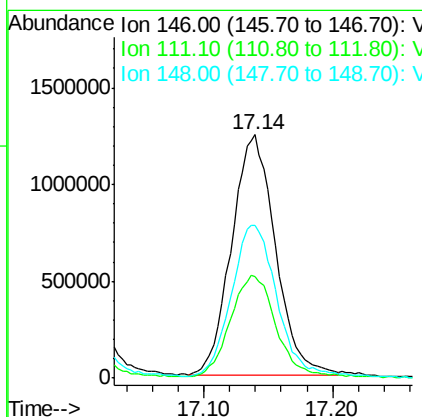
Manual Integrations  
APPROVED

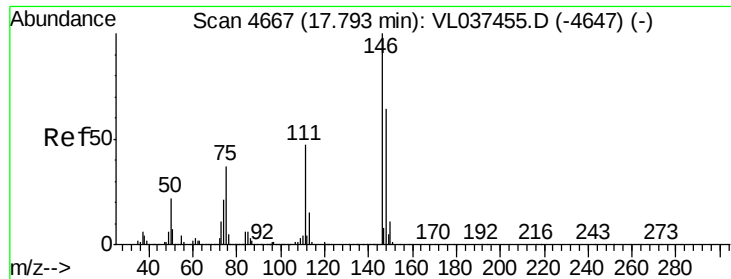
MMDadoda  
8/20/2021 6:31:46 PM



#76  
1,4-Dichlorobenzene  
Concen: 9.014 ppbv  
RT: 17.14 min Scan# 4464  
Delta R.T. 0.03 min  
Lab File: VL037513.D  
Acq: 20 Aug 2021 8:43

Tgt Ion:146 Resp: 2926342  
Ion Ratio Lower Upper  
146 100  
111 45.5 22.1 66.5  
148 67.5 32.4 97.0





#77

1,2-Dichlorobenzene

Concen: 9.361 ppbv

RT: 17.82 min Scan# 4675

Delta R.T. 0.03 min

Lab File: VL037513.D

Acq: 20 Aug 2021 8:43

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 2970433

Ion Ratio Lower Upper

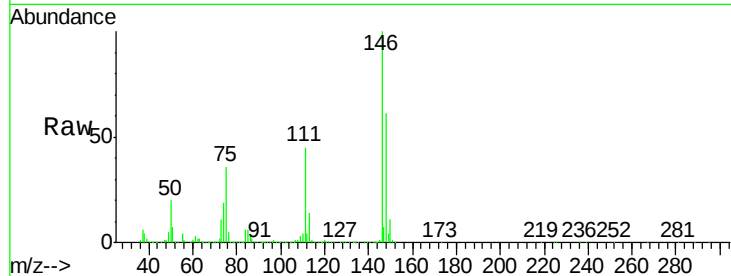
146 100

111 46.7 23.4 70.3

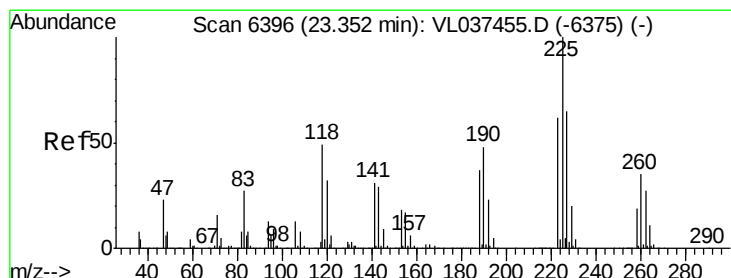
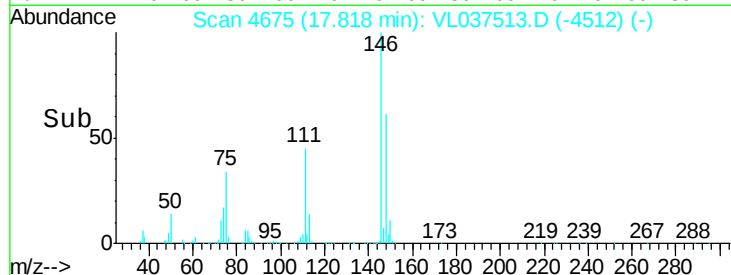
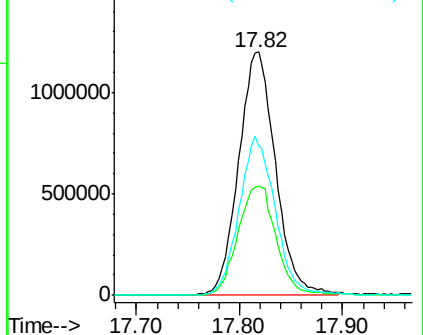
148 64.1 32.5 97.5

Manual Integrations  
APPROVED

MMDadoda  
8/20/2021 6:31:46 PM



Abundance Ion 146.00 (145.70 to 146.70): V  
Ion 111.10 (110.80 to 111.80): V  
Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 8.511 ppbv

RT: 23.37 min Scan# 6403

Delta R.T. 0.02 min

Lab File: VL037513.D

Acq: 20 Aug 2021 8:43

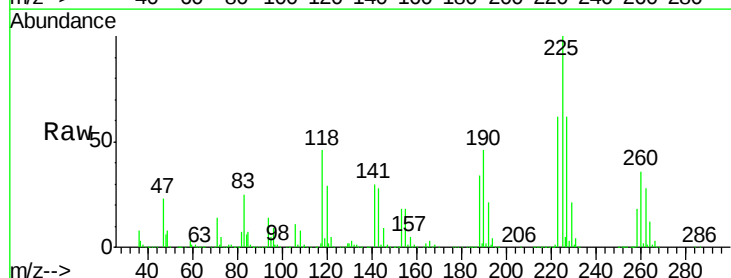
Tgt Ion:225 Resp: 2245685

Ion Ratio Lower Upper

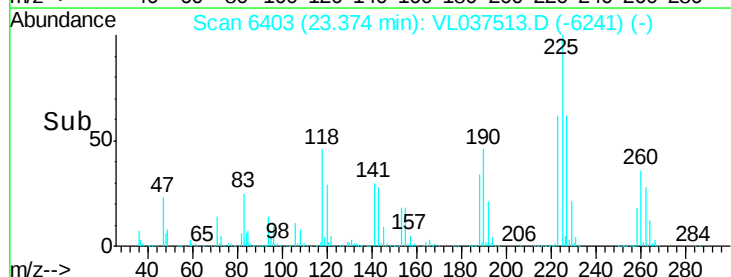
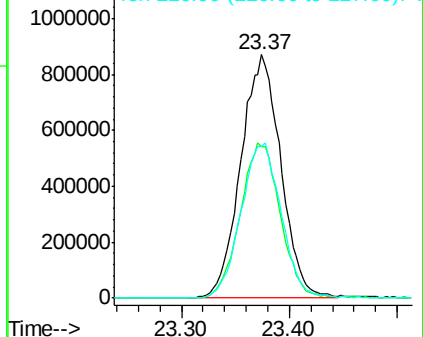
225 100

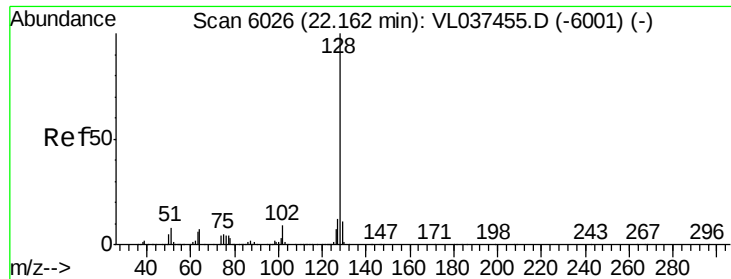
223 64.0 51.4 77.0

227 64.0 52.9 79.3



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





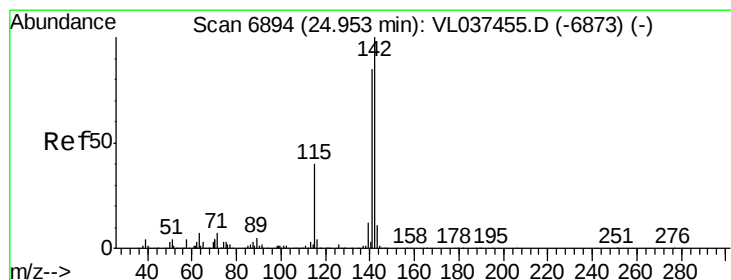
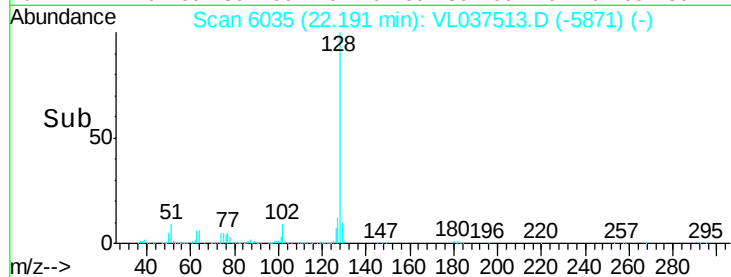
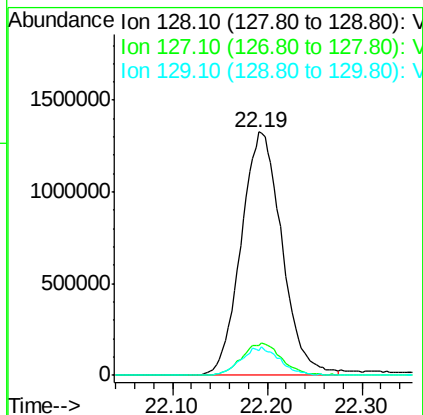
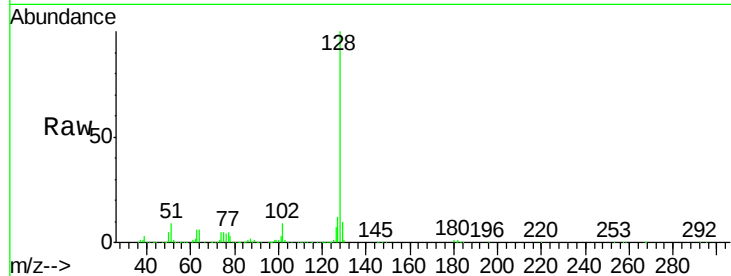
#79  
Naphthalene  
Concen: 11.084 ppbv  
RT: 22.19 min Scan# 6035  
Delta R.T. 0.03 min  
Lab File: VL037513.D  
Acq: 20 Aug 2021 8:43

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 12.2  | 9.4   | 14.2  |
| 129     | 10.4  | 8.8   | 13.2  |

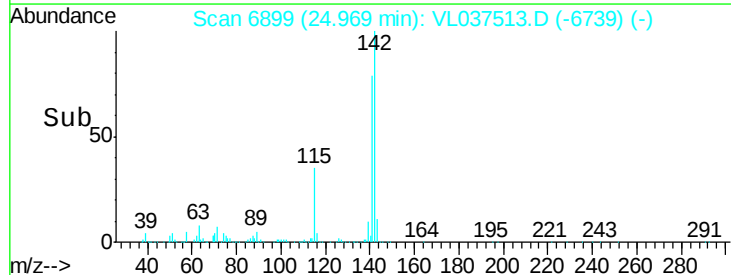
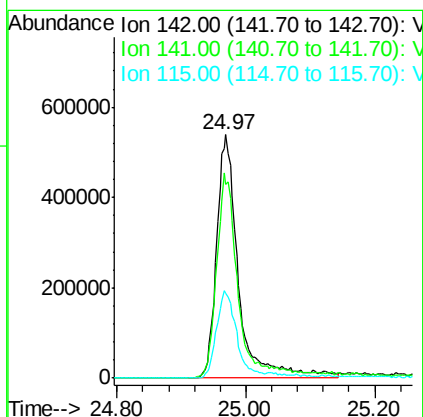
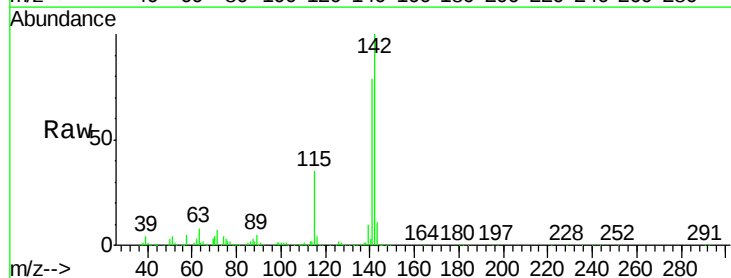
Manual Integrations  
APPROVED

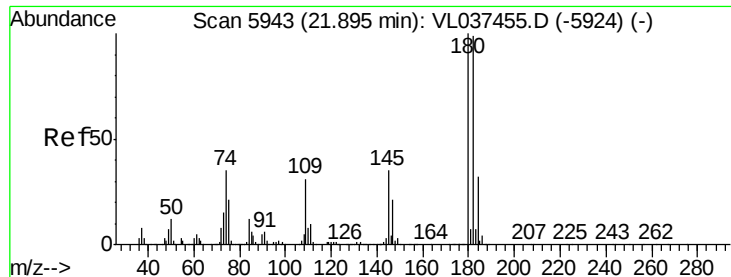
MMDadoda  
8/20/2021 6:31:46 PM



#80  
Naphthalene, 2-methyl-  
Concen: 12.758 ppbv  
RT: 24.97 min Scan# 6899  
Delta R.T. 0.02 min  
Lab File: VL037513.D  
Acq: 20 Aug 2021 8:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 83.0  | 64.7  | 97.1  |
| 115     | 35.4  | 28.4  | 42.6  |





#81  
 1,2,4-Trichlorobenzene  
 Concen: 10.522 ppbv  
 RT: 21.92 min Scan# 5951  
 Delta R.T. 0.03 min  
 Lab File: VL037513.D  
 Acq: 20 Aug 2021 8:43

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 97.0  | 79.6  | 119.4 |
| 184     | 31.3  | 25.4  | 38.2  |

Manual Integrations  
 APPROVED

MMDadoda  
 8/20/2021 6:31:46 PM

