

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL011321\  
 Data File : VL036217.D  
 Acq On : 13 Jan 2021 7:41  
 Operator : SY/AP  
 Sample : VSTDICV010  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL011321

Manual Integrations  
 APPROVED

MMDadoda  
 1/18/2021 3:49:04 PM

Quant Time: Jan 14 16:16:46 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Jan 14 16:16:46 2021  
 QLast Update : Thu Jan 14 16:13:38 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.66  | 49   | 1452193  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.18  | 114  | 3318156  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.08 | 117  | 3189122m | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.41  | 95    | 2653095  | 10.05    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 100.50% |

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 3.04 | 85   | 1765678  | 9.070  | ppbv  | 99     |
| 3) Chlorodifluoromethane       | 2.98 | 51   | 1645674  | 9.227  | ppbv  | 100    |
| 4) Chloromethane               | 3.13 | 50   | 807742   | 9.164  | ppbv  | 95     |
| 5) Vinyl Chloride              | 3.25 | 62   | 783596   | 9.394  | ppbv  | 97     |
| 6) Bromomethane                | 3.47 | 94   | 430983   | 9.242  | ppbv  | 99     |
| 7) Chloroethane                | 3.55 | 64   | 270320   | 9.411  | ppbv  | 99     |
| 8) Dichlorotetrafluoroethane   | 3.18 | 85   | 1719990  | 9.120  | ppbv  | 98     |
| 9) Propene                     | 3.00 | 41   | 766318   | 9.023  | ppbv  | 98     |
| 10) Heptane                    | 8.12 | 43   | 1993201  | 9.455  | ppbv  | 99     |
| 11) Trichlorofluoromethane     | 3.94 | 101  | 1801618  | 9.104  | ppbv  | 99     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.48 | 101  | 1132480  | 9.439  | ppbv  | 98     |
| 13) Ethanol                    | 3.60 | 45   | 119178m  | 8.937  | ppbv  |        |
| 14) Bromoethene                | 3.73 | 108  | 522908   | 9.571  | ppbv  | 95     |
| 15) Acetone                    | 3.84 | 43   | 1448783  | 8.146  | ppbv  | 100    |
| 16) 1,3-Butadiene              | 3.32 | 39   | 826637   | 9.541  | ppbv  | 97     |
| 17) tert-Butyl alcohol         | 4.29 | 59   | 1384336  | 9.433  | ppbv  | 100    |
| 18) 1,1-Dichloroethene         | 4.28 | 96   | 521752   | 9.380  | ppbv  | 95     |
| 19) Isopropyl Alcohol          | 3.96 | 45   | 983547m  | 9.173  | ppbv  |        |
| 20) Methylene Chloride         | 4.34 | 84   | 478551m  | 8.430  | ppbv  |        |
| 21) Allyl Chloride             | 4.40 | 41   | 977552   | 10.098 | ppbv  | 97     |
| 22) trans-1,2-Dichloroethene   | 4.88 | 96   | 495645   | 9.644  | ppbv  | 99     |
| 23) Vinyl Acetate              | 5.07 | 43   | 2128542  | 9.877  | ppbv  | 99     |
| 24) 1,1-Dichloroethane         | 5.01 | 63   | 1477592  | 9.465  | ppbv  | 100    |
| 25) Ethyl Acetate              | 5.67 | 43   | 3350539  | 9.383  | ppbv  | 99     |
| 26) Hexane                     | 5.68 | 57   | 1330116  | 8.947  | ppbv  | 99     |
| 27) Carbon Disulfide           | 4.54 | 76   | 1314574  | 11.059 | ppbv  | 99     |
| 28) Methyl tert-Butyl Ether    | 5.02 | 73   | 1948607  | 9.692  | ppbv  | 96     |
| 29) Chloroform                 | 5.75 | 83   | 1998135  | 9.387  | ppbv  | 95     |
| 30) Cyclohexane                | 7.13 | 84   | 1109899  | 9.770  | ppbv  | 99     |
| 31) cis-1,2-Dichloroethene     | 5.54 | 61   | 1368929  | 9.634  | ppbv  | 95     |
| 32) 1,1,1-Trichloroethane      | 6.51 | 97   | 1982549  | 9.630  | ppbv  | 99     |
| 34) 2-Butanone                 | 5.24 | 43   | 2120835  | 8.679  | ppbv  | 100    |
| 35) Carbon Tetrachloride       | 7.01 | 117  | 2001185  | 9.545  | ppbv  | 97     |
| 36) Benzene                    | 6.89 | 78   | 2704184  | 8.894  | ppbv  | 96     |
| 37) 1,2-Dichloroethane         | 6.30 | 62   | 1631371  | 8.917  | ppbv  | 100    |
| 38) Trichloroethene            | 7.83 | 130  | 903475   | 8.023  | ppbv  | 95     |
| 39) 1,2-Dichloropropane        | 7.61 | 63   | 1122518  | 9.093  | ppbv  | 98     |
| 40) 1,4-Dioxane                | 7.83 | 88   | 354933m  | 7.948  | ppbv  |        |
| 41) Tetrahydrofuran            | 6.04 | 42   | 1316150  | 9.320  | ppbv  | 96     |
| 42) Bromodichloromethane       | 7.79 | 83   | 2179163  | 9.477  | ppbv  | 96     |
| 43) Methyl Methacrylate        | 8.01 | 69   | 1236648  | 9.571  | ppbv  | 99     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL011321\  
 Data File : VL036217.D  
 Acq On : 13 Jan 2021 7:41  
 Operator : SY/AP  
 Sample : VSTDICV010  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL011321

Manual Integrations  
 APPROVED

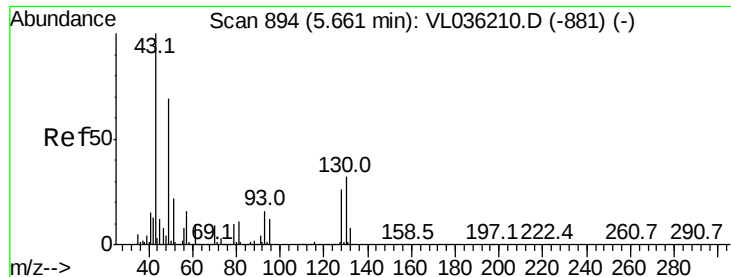
MMDadoda  
 1/18/2021 3:49:04 PM

Quant Time: Jan 14 16:16:46 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Jan 14 16:13:38 2021  
 QLast Update : Thu Jan 14 16:13:38 2021  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| 44) 2,2,4-Trimethylpentane    | 7.87  | 57   | 4776296  | 8.553  | ppbv   | 100      |
| 45) t-1,3-Dichloropropene     | 9.28  | 75   | 1355120  | 11.042 | ppbv   | 98       |
| 46) cis-1,3-Dichloropropene   | 8.70  | 75   | 1613004  | 10.228 | ppbv   | 99       |
| 47) 1,1,2-Trichloroethane     | 9.47  | 97   | 1090466  | 9.234  | ppbv   | 95       |
| 48) Dibromochloromethane      | 10.30 | 129  | 1755600  | 10.161 | ppbv   | 99       |
| 49) Bromoform                 | 13.04 | 173  | 1478377  | 10.251 | ppbv   | 98       |
| 50) 4-Methyl-2-Pentanone      | 8.73  | 43   | 3341057  | 9.170  | ppbv   | 100      |
| 51) 2-Hexanone                | 10.13 | 43   | 2811389  | 9.781  | ppbv # | 99       |
| 52) Tetrachloroethene         | 11.22 | 164  | 901808   | 8.049  | ppbv   | 97       |
| 53) Toluene                   | 9.80  | 91   | 3072301  | 9.033  | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.61 | 107  | 1613315  | 9.216  | ppbv   | 97       |
| 56) 1,1,1,2-Tetrachloroethane | 12.13 | 131  | 1298001  | 9.120  | ppbv # | 57       |
| 57) Chlorobenzene             | 12.14 | 112  | 2161369  | 8.638  | ppbv   | 96       |
| 58) Ethyl Benzene             | 12.71 | 91   | 4208241  | 8.892  | ppbv   | 100      |
| 59) m/p-Xylene                | 12.99 | 91   | 6989464m | 17.188 | ppbv   |          |
| 60) o-Xylene                  | 13.69 | 91   | 3245819  | 8.281  | ppbv   | 99       |
| 61) Styrene                   | 13.53 | 104  | 2396946  | 9.684  | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.67 | 105  | 4946166  | 8.487  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.68 | 83   | 2295995  | 7.867  | ppbv   | 99       |
| 64) n-propylbenzene           | 15.56 | 120  | 1282749  | 8.958  | ppbv   | 97       |
| 65) tert-Butylbenzene         | 16.75 | 119  | 4159736  | 8.423  | ppbv   | 99       |
| 66) Benzyl Chloride           | 16.99 | 91   | 1486755  | 11.784 | ppbv   | 99       |
| 67) sec-Butylbenzene          | 17.30 | 105  | 6021875  | 8.215  | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 17.65 | 119  | 4910593  | 8.447  | ppbv   | 100      |
| 70) n-Butylbenzene            | 18.55 | 91   | 5244045  | 8.466  | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 15.45 | 91   | 3911500  | 8.539  | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 15.84 | 105  | 3903046  | 8.824  | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene    | 16.00 | 105  | 3687428  | 8.745  | ppbv   | 97       |
| 74) 1,2,4-Trimethylbenzene    | 16.77 | 105  | 3644115  | 8.425  | ppbv   | 95       |
| 75) 1,3-Dichlorobenzene       | 17.00 | 146  | 1993606  | 8.594  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.14 | 146  | 1968086  | 8.588  | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 17.82 | 146  | 1947265  | 8.594  | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 23.37 | 225  | 1485789  | 8.199  | ppbv   | 98       |
| 79) Naphthalene               | 22.20 | 128  | 2843507m | 11.247 | ppbv   |          |
| 80) Naphthalene, 2-methyl-    | 24.98 | 142  | 1013944  | 18.796 | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 21.92 | 180  | 1442868  | 9.775  | ppbv   | 99       |
| -----                         |       |      |          |        |        |          |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.00 min

Lab File: VL036217.D

Acq: 13 Jan 2021 7:41

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL011321

Tot Ion: 49 Resp: 1452193

Ion Ratio Lower Upper

49 100

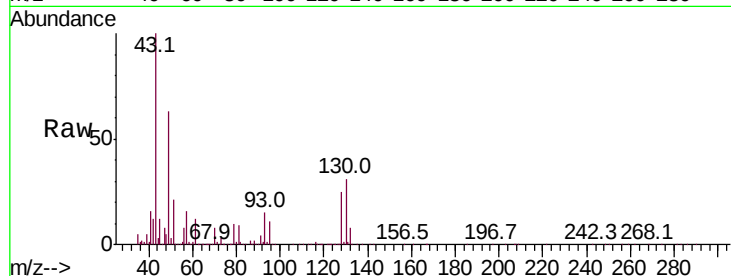
128 41.4 20.1 60.2

130 53.7 25.3 75.9

Manual Integrations  
APPROVED

MMDadoda

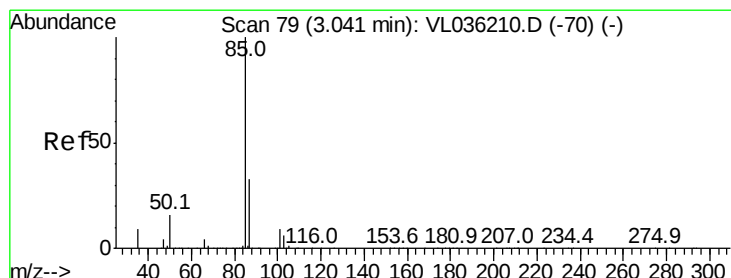
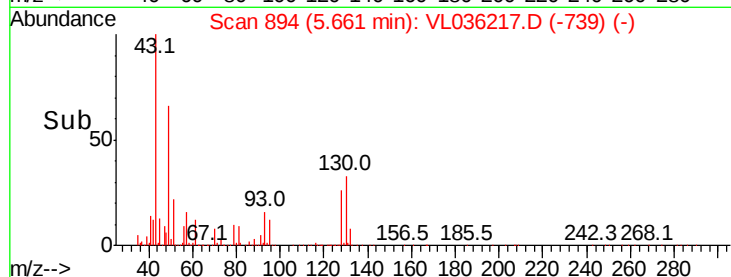
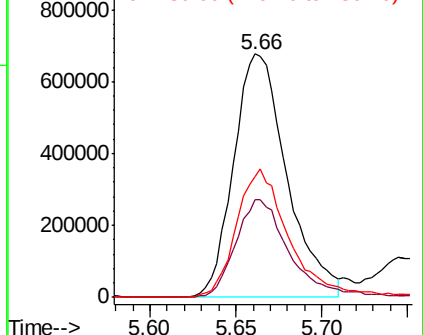
1/18/2021 3:49:04 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 9.070 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.00 min

Lab File: VL036217.D

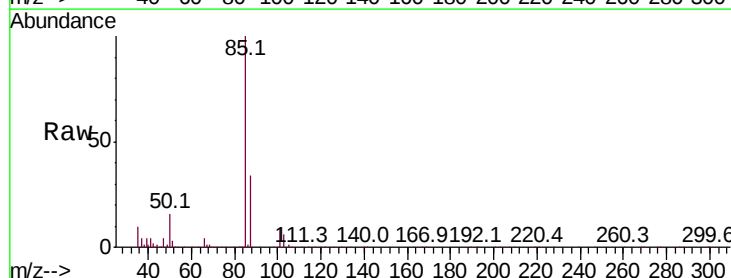
Acq: 13 Jan 2021 7:41

Tgt Ion: 85 Resp: 1765678

Ion Ratio Lower Upper

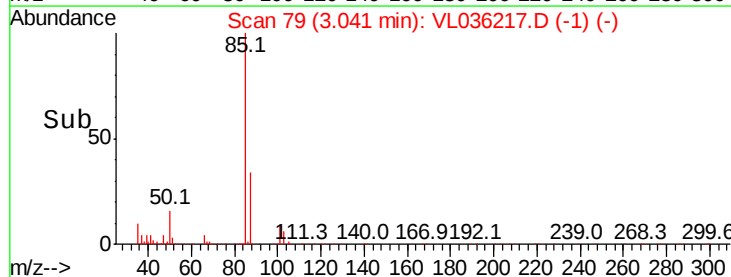
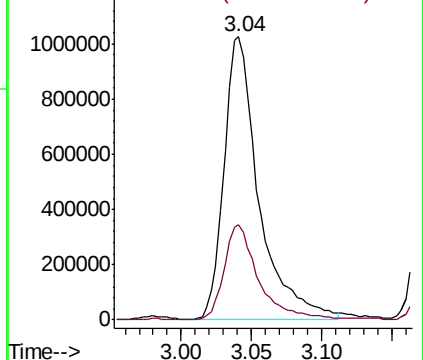
85 100

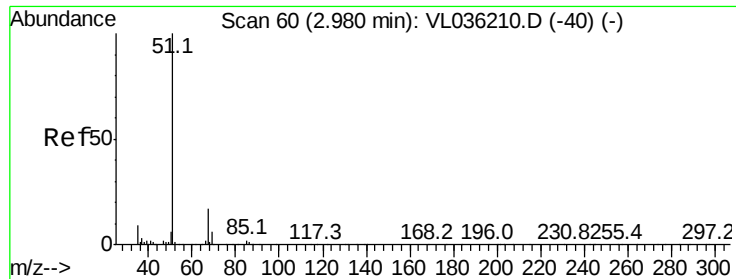
87 33.6 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





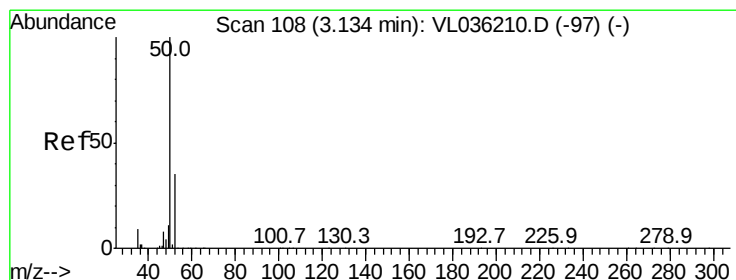
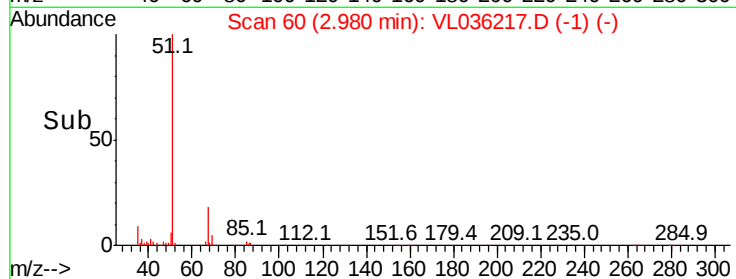
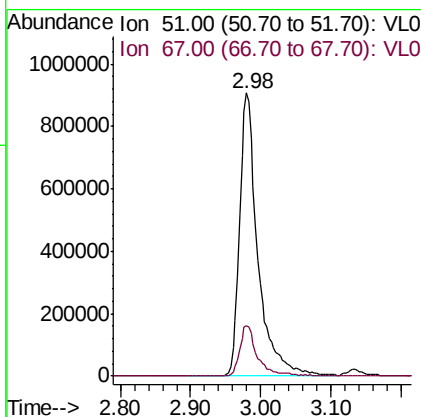
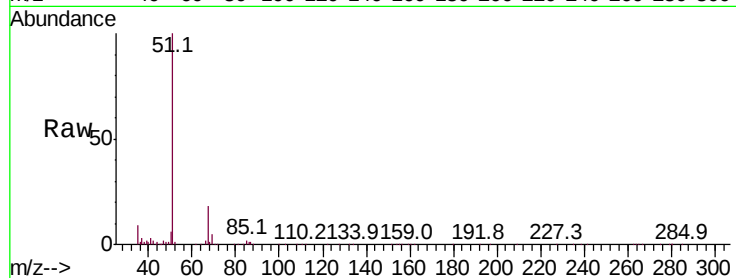
#3  
Chlorodifluoromethane  
Concen: 9.227 ppbv  
RT: 2.98 min Scan# 60  
Delta R.T. -0.00 min  
Lab File: VL036217.D  
Acq: 13 Jan 2021 7:41

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL011321

Tot Ion: 51 Resp: 1645674  
Ion Ratio Lower Upper  
51 100  
67 17.7 14.0 21.0

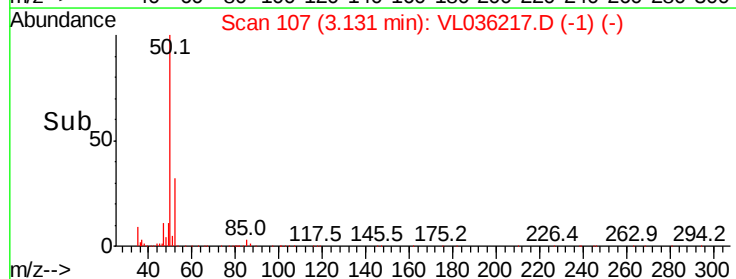
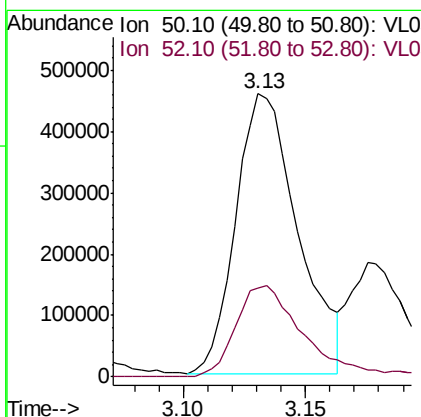
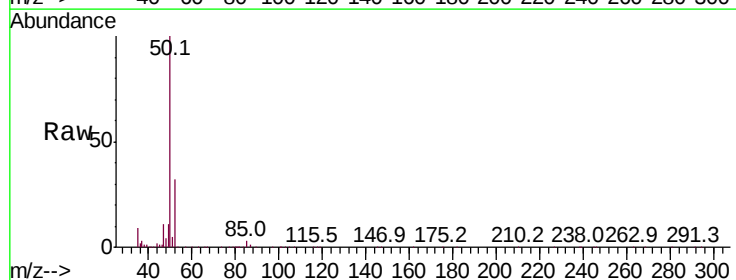
Manual Integrations  
APPROVED

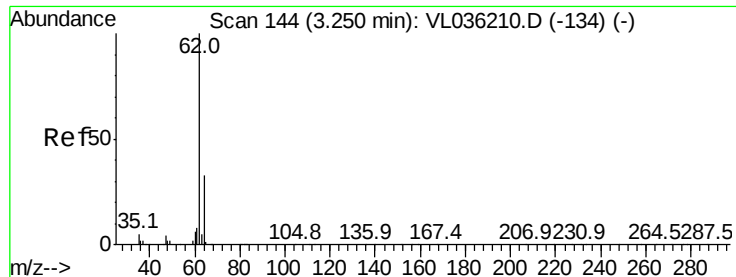
MMDadoda  
1/18/2021 3:49:04 PM



#4  
Chloromethane  
Concen: 9.164 ppbv  
RT: 3.13 min Scan# 107  
Delta R.T. -0.00 min  
Lab File: VL036217.D  
Acq: 13 Jan 2021 7:41

Tgt Ion: 50 Resp: 807742  
Ion Ratio Lower Upper  
50 100  
52 31.6 27.8 41.8





#5

Vinyl Chloride

Concen: 9.394 ppbv

RT: 3.25 min Scan# 144

Delta R.T. -0.00 min

Lab File: VL036217.D

Acq: 13 Jan 2021 7:41

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL011321

Tot Ion: 62 Resp: 783596

Ion Ratio Lower Upper

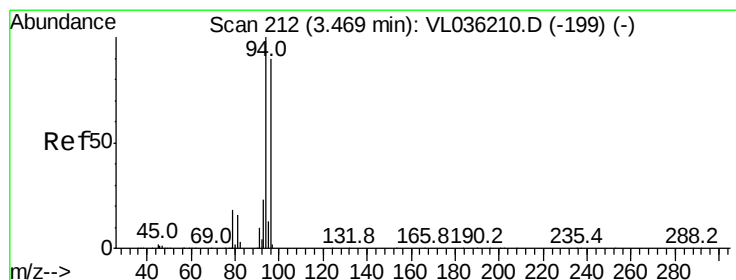
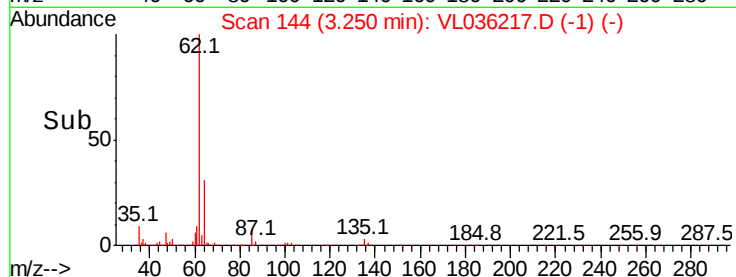
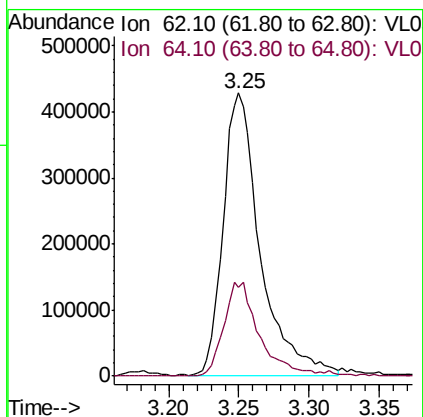
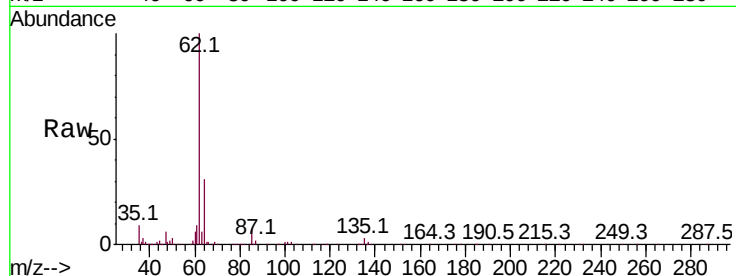
62 100

64 31.3 26.2 39.2

Manual Integrations  
APPROVED

MMDadoda

1/18/2021 3:49:04 PM



#6

Bromomethane

Concen: 9.242 ppbv

RT: 3.47 min Scan# 211

Delta R.T. -0.00 min

Lab File: VL036217.D

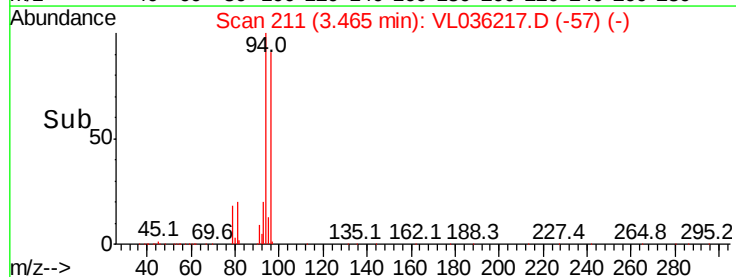
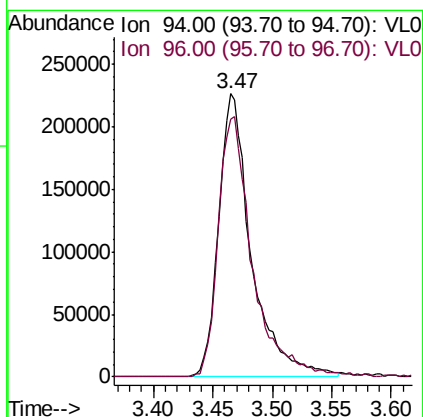
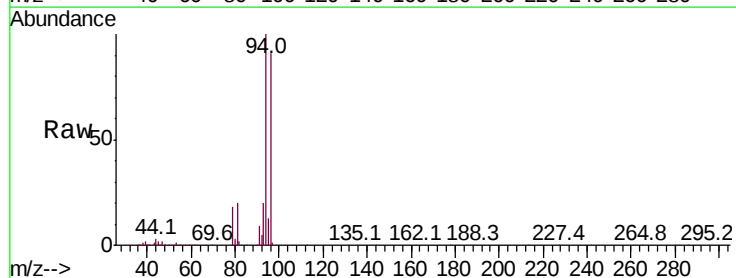
Acq: 13 Jan 2021 7:41

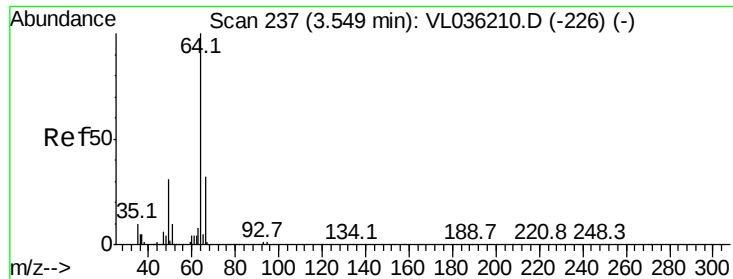
Tgt Ion: 94 Resp: 430983

Ion Ratio Lower Upper

94 100

96 91.1 71.9 107.9





#7

Chloroethane

Concen: 9.411 ppbv

RT: 3.55 min Scan# 238

Delta R.T. 0.00 min

Lab File: VL036217.D

Acq: 13 Jan 2021 7:41

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL011321

Tot Ion: 64 Resp: 270320

Ion Ratio Lower Upper

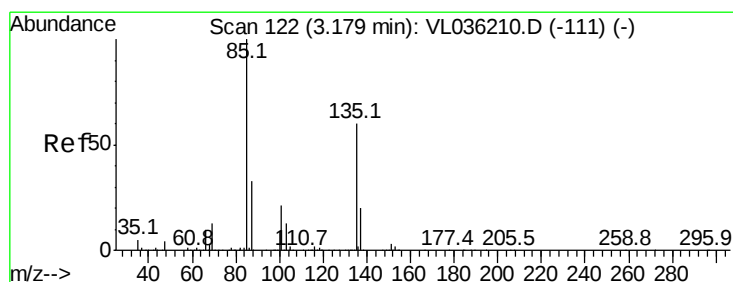
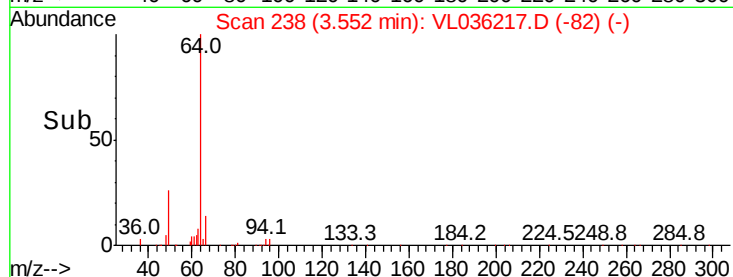
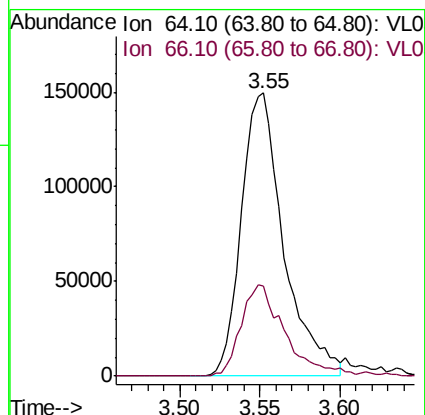
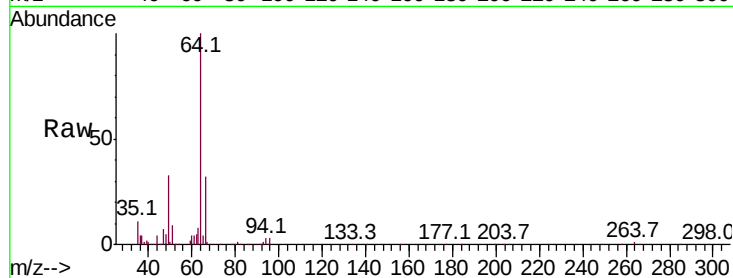
64 100

66 32.0 25.2 37.8

Manual Integrations  
APPROVED

MMDadoda

1/18/2021 3:49:04 PM



#8

Dichlorotetrafluoroethane

Concen: 9.120 ppbv

RT: 3.18 min Scan# 122

Delta R.T. -0.00 min

Lab File: VL036217.D

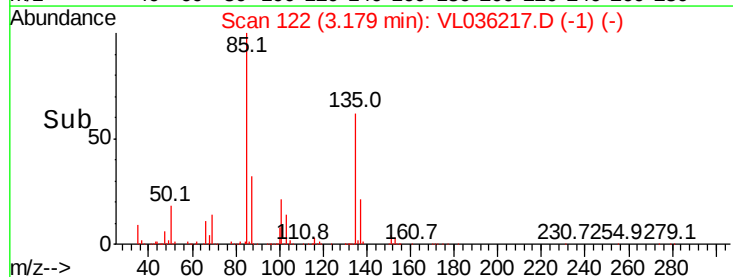
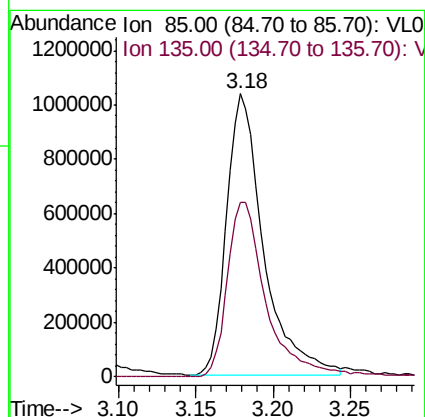
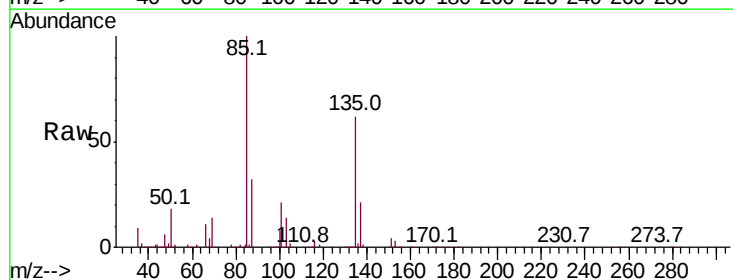
Acq: 13 Jan 2021 7:41

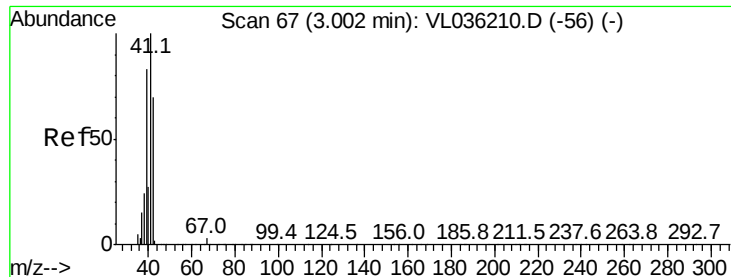
Tgt Ion: 85 Resp: 1719990

Ion Ratio Lower Upper

85 100

135 66.2 51.5 77.3





#9

Propene

Concen: 9.023 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.00 min

Lab File: VL036217.D

Acq: 13 Jan 2021 7:41

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL011321

Tot Ion: 41 Resp: 766318

Ion Ratio Lower Upper

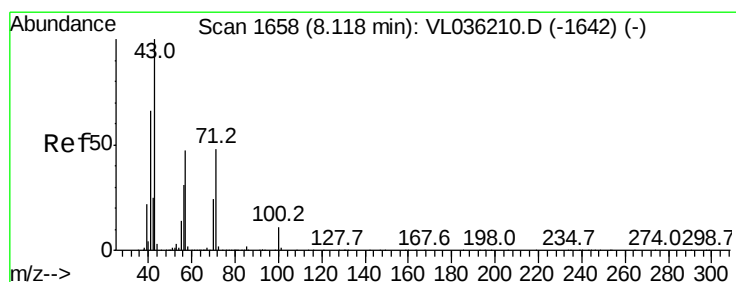
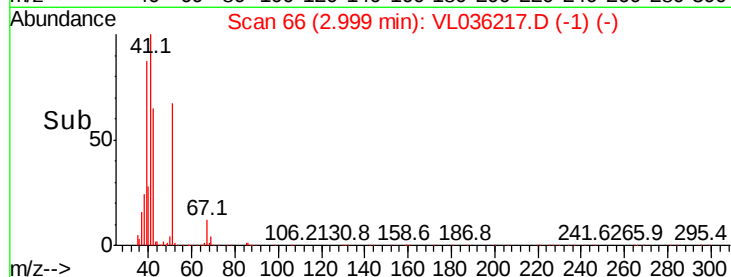
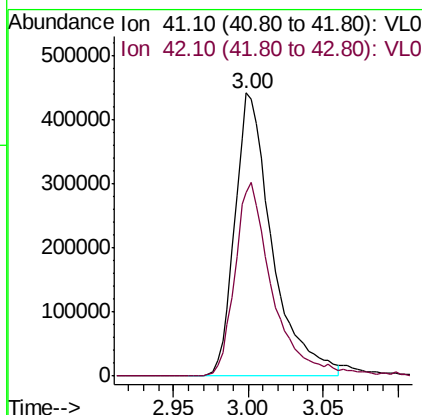
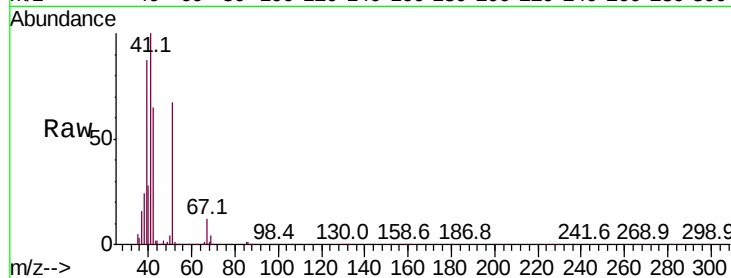
41 100

42 70.1 57.1 85.7

Manual Integrations  
APPROVED

MMDadoda

1/18/2021 3:49:04 PM



#10

Heptane

Concen: 9.455 ppbv

RT: 8.12 min Scan# 1659

Delta R.T. 0.00 min

Lab File: VL036217.D

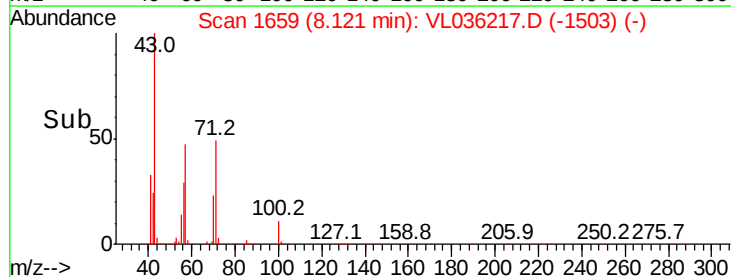
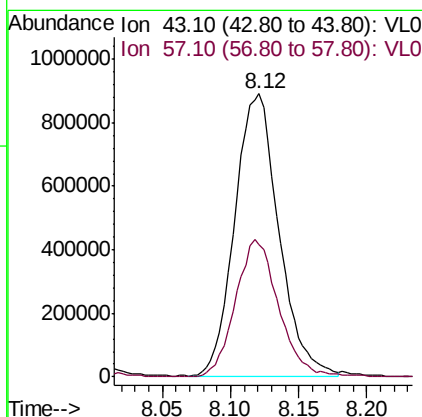
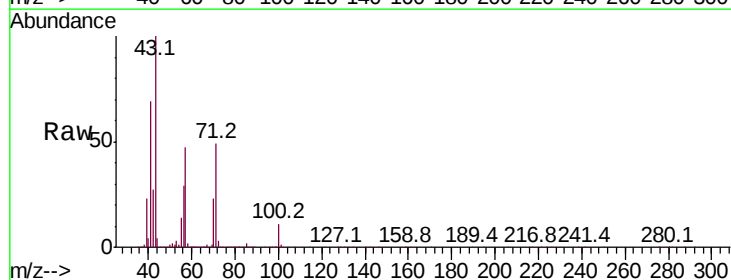
Acq: 13 Jan 2021 7:41

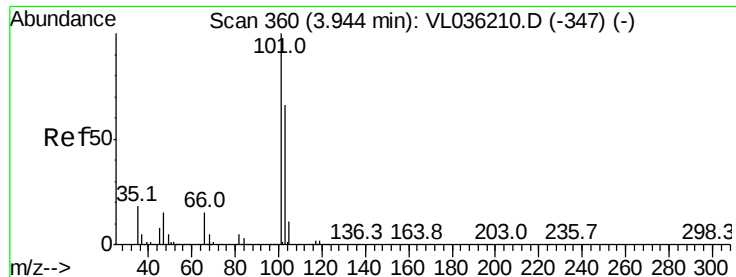
Tgt Ion: 43 Resp: 1993201

Ion Ratio Lower Upper

43 100

57 48.1 38.1 57.1





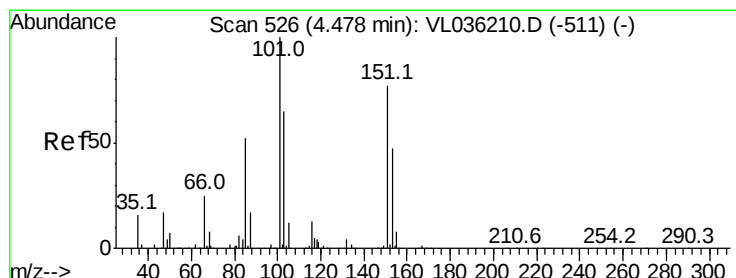
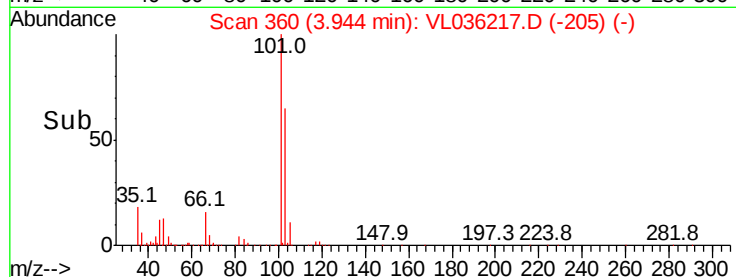
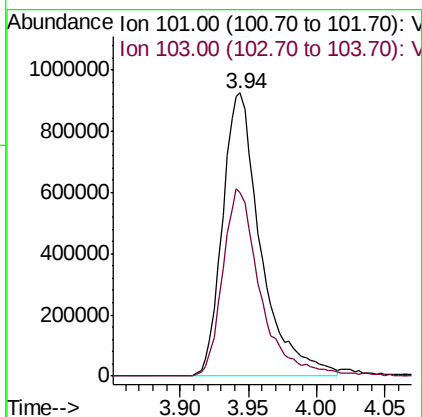
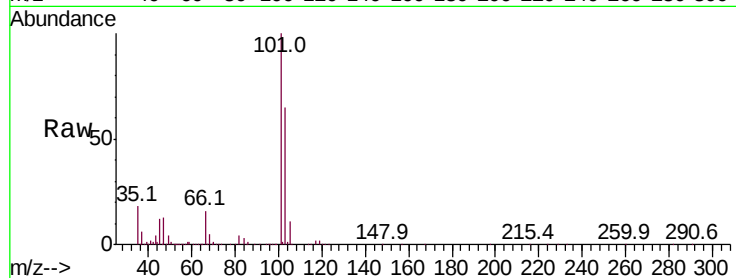
#11  
 Trichlorofluoromethane  
 Concen: 9.104 ppbv  
 RT: 3.94 min Scan# 360  
 Delta R.T. -0.00 min  
 Lab File: VL036217.D  
 Acq: 13 Jan 2021 7:41

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL011321

Tot Ion:101 Resp: 1801618  
 Ion Ratio Lower Upper  
 101 100  
 103 64.9 52.6 78.8

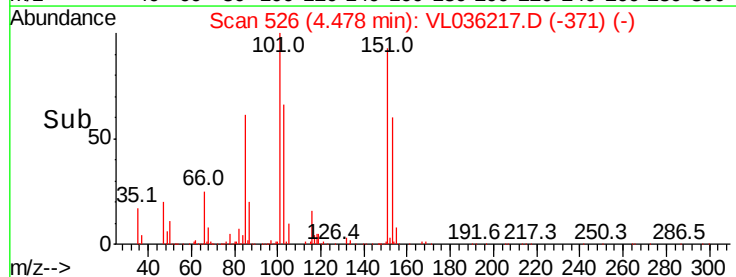
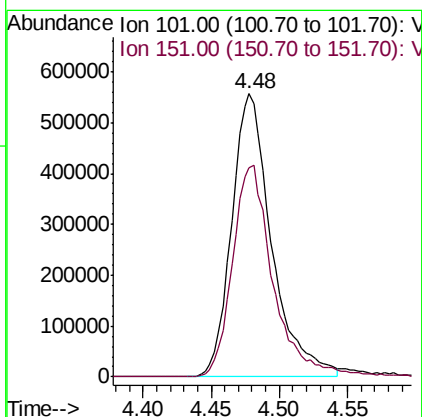
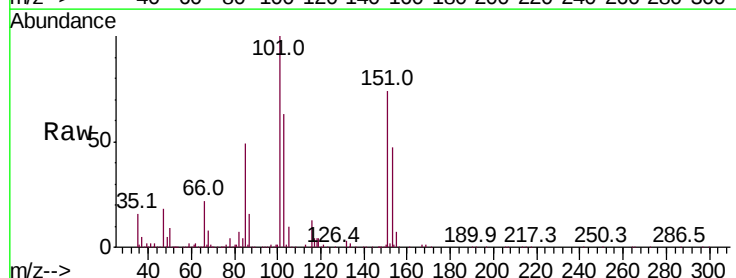
Manual Integrations  
 APPROVED

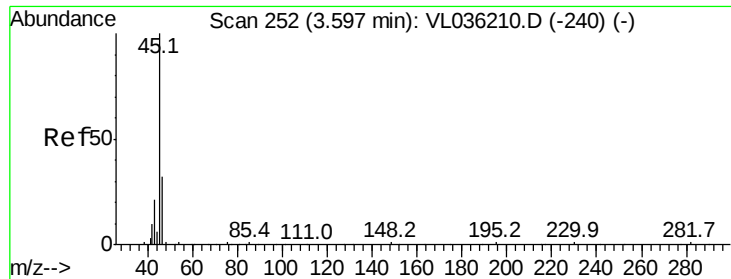
MMDadoda  
 1/18/2021 3:49:04 PM



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 9.439 ppbv  
 RT: 4.48 min Scan# 526  
 Delta R.T. -0.00 min  
 Lab File: VL036217.D  
 Acq: 13 Jan 2021 7:41

Tgt Ion:101 Resp: 1132480  
 Ion Ratio Lower Upper  
 101 100  
 151 76.7 59.8 89.6





#13

Ethanol

Concen: 8.937 ppbv m

RT: 3.60 min Scan# 252

Delta R.T. -0.00 min

Lab File: VL036217.D

Acq: 13 Jan 2021 7:41

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL011321

Tot Ion: 45 Resp: 119178

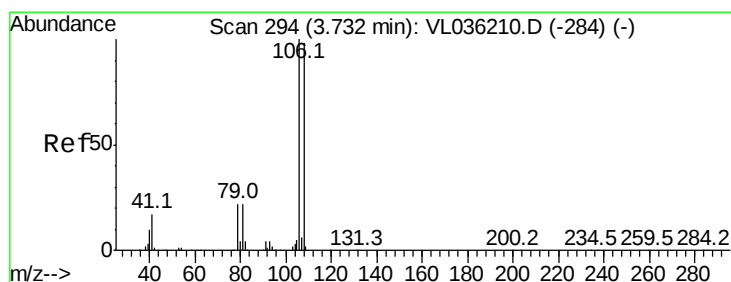
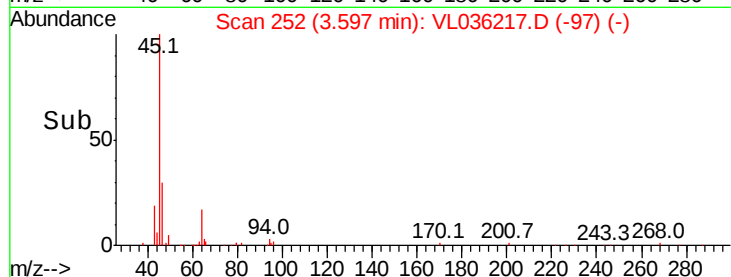
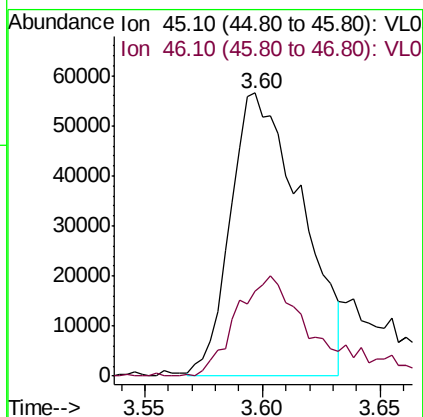
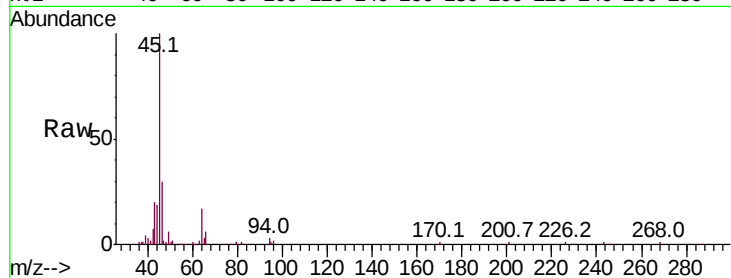
Ion Ratio Lower Upper

45 100

46 40.2 19.2 77.0

Manual Integrations  
APPROVED

MMDadoda  
1/18/2021 3:49:04 PM



#14

Bromoethene

Concen: 9.571 ppbv

RT: 3.73 min Scan# 294

Delta R.T. -0.00 min

Lab File: VL036217.D

Acq: 13 Jan 2021 7:41

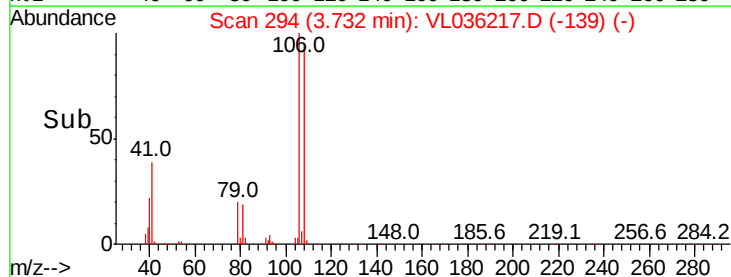
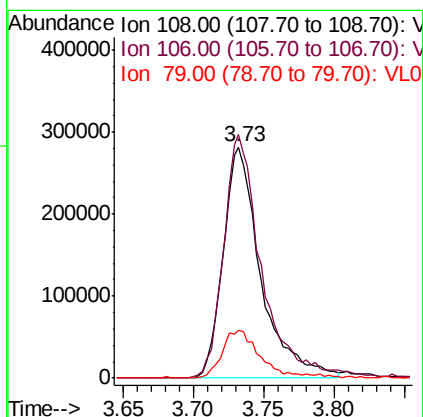
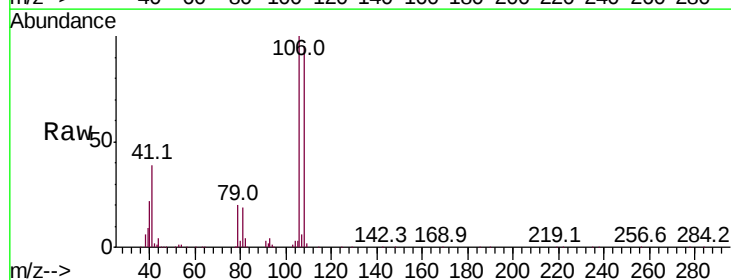
Tgt Ion: 108 Resp: 522908

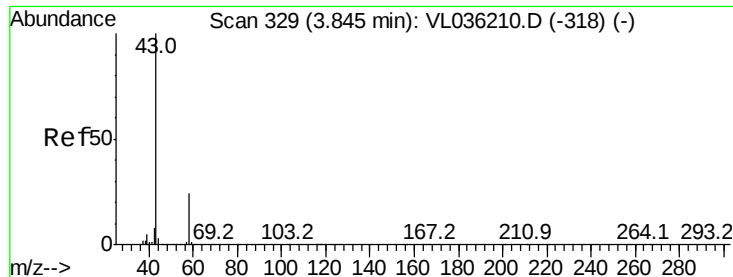
Ion Ratio Lower Upper

108 100

106 107.5 91.4 137.2

79 22.3 18.3 27.5





#15

Acetone

Concen: 8.146 ppbv

RT: 3.84 min Scan# 328

Delta R.T. -0.00 min

Lab File: VL036217.D

Acq: 13 Jan 2021 7:41

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL011321

Tot Ion: 43 Resp: 1448783

Ion Ratio Lower Upper

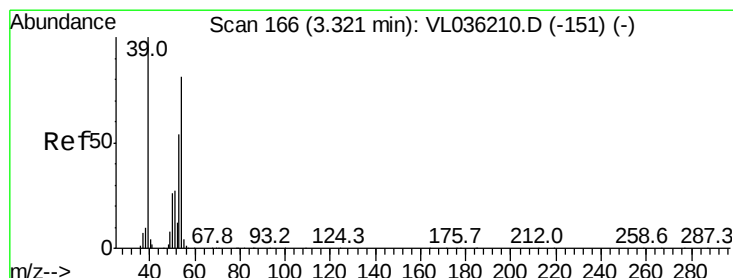
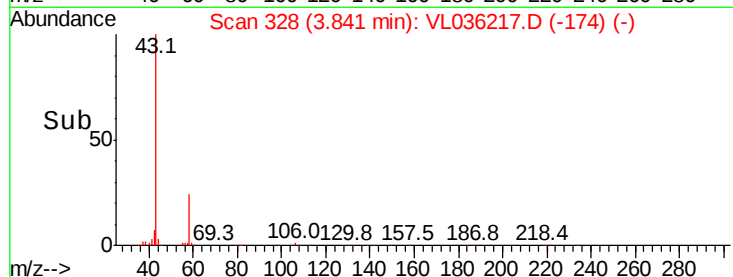
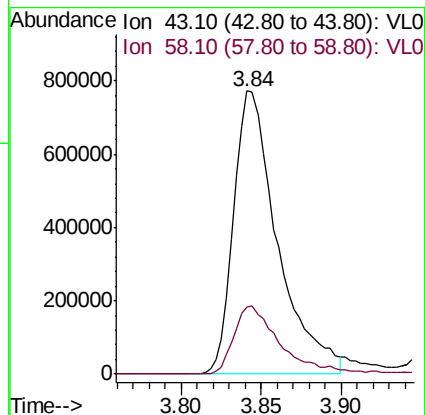
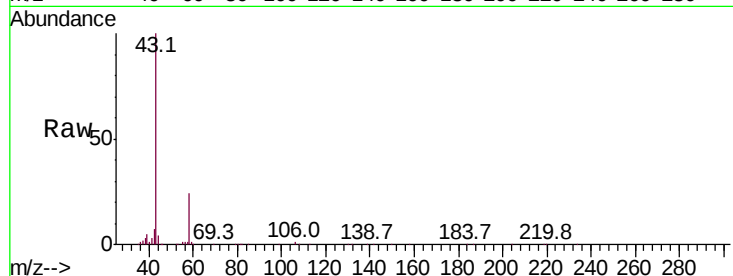
43 100

58 26.2 20.9 31.3

Manual Integrations  
APPROVED

MMDadoda

1/18/2021 3:49:04 PM



#16

1,3-Butadiene

Concen: 9.541 ppbv

RT: 3.32 min Scan# 165

Delta R.T. -0.00 min

Lab File: VL036217.D

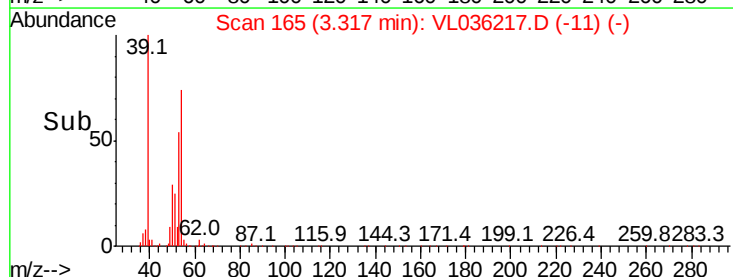
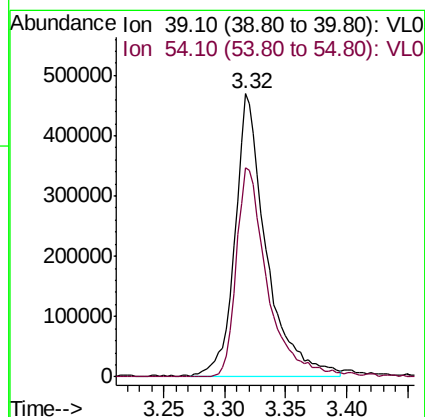
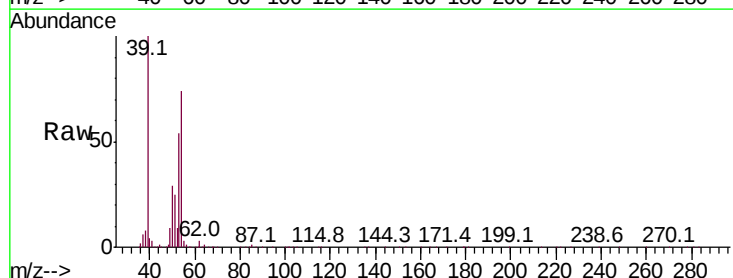
Acq: 13 Jan 2021 7:41

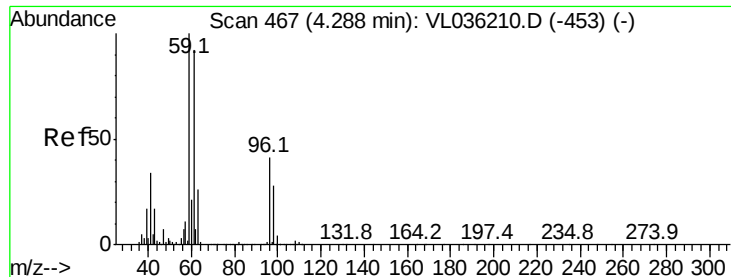
Tgt Ion: 39 Resp: 826637

Ion Ratio Lower Upper

39 100

54 75.5 62.5 93.7





#17

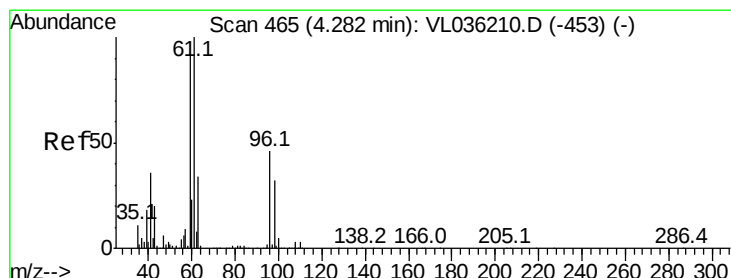
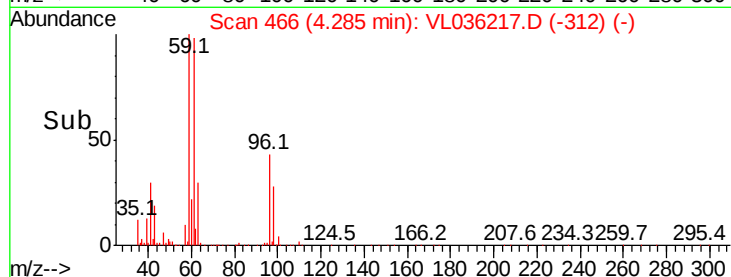
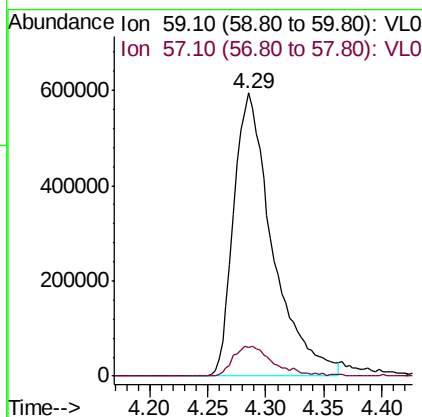
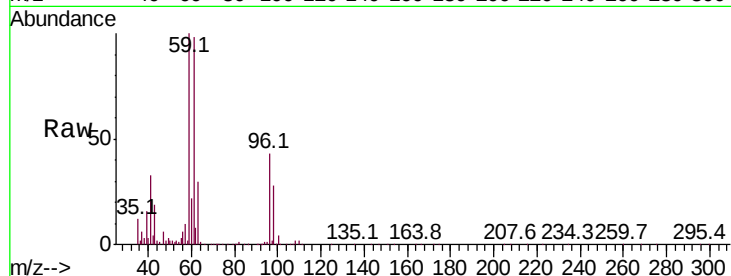
tert-Butyl alcohol  
Concen: 9.433 ppbv  
RT: 4.29 min Scan# 466  
Delta R.T. -0.00 min  
Lab File: VL036217.D  
Acq: 13 Jan 2021 7:41

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL011321

Tot Ion: 59 Resp: 1384336  
Ion Ratio Lower Upper  
59 100  
57 11.3 9.2 13.8

Manual Integrations  
APPROVED

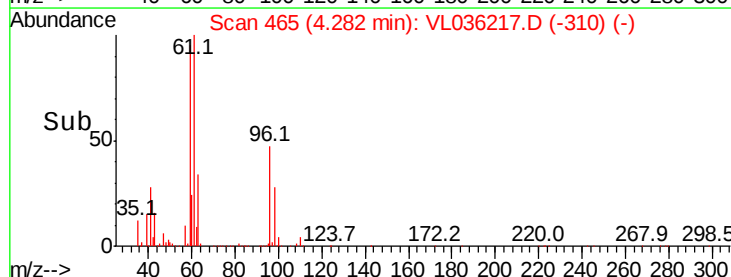
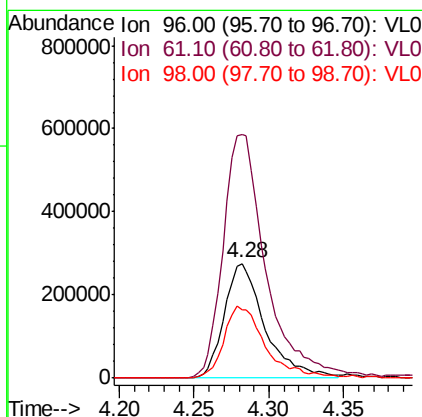
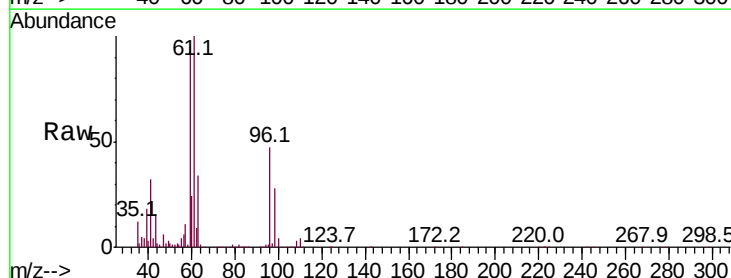
MMDadoda  
1/18/2021 3:49:04 PM

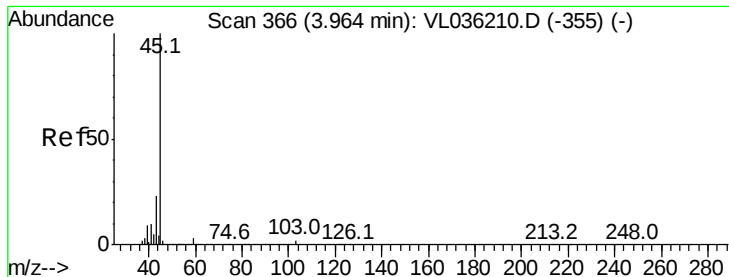


#18

1,1-Dichloroethene  
Concen: 9.380 ppbv  
RT: 4.28 min Scan# 465  
Delta R.T. -0.00 min  
Lab File: VL036217.D  
Acq: 13 Jan 2021 7:41

Tgt Ion: 96 Resp: 521752  
Ion Ratio Lower Upper  
96 100  
61 211.4 173.4 260.0  
98 59.9 54.9 82.3





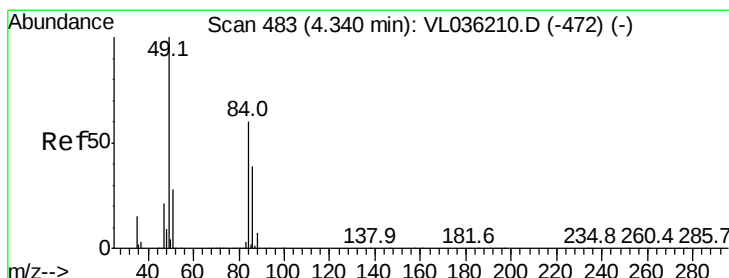
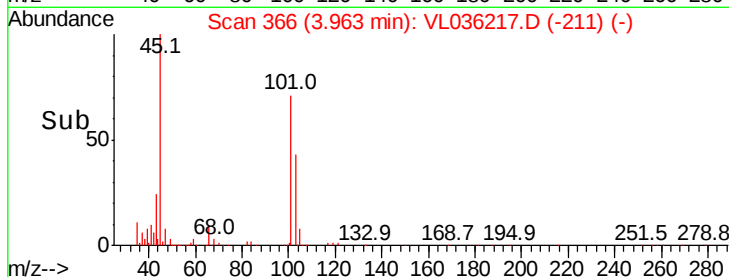
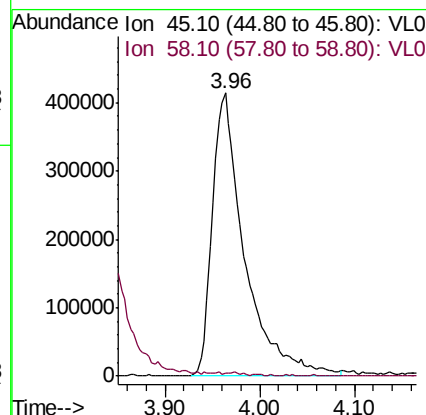
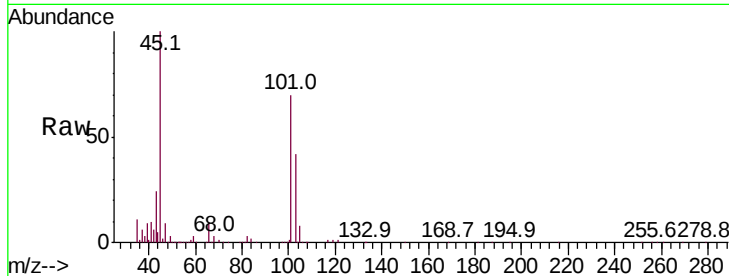
#19  
Isopropyl Alcohol  
Concen: 9.173 ppbv m  
RT: 3.96 min Scan# 366  
Delta R.T. -0.00 min  
Lab File: VL036217.D  
Acq: 13 Jan 2021 7:41

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL011321

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 45      | 100   |       |       |
| 58      | 1.2   | 1.9   | 2.9#  |

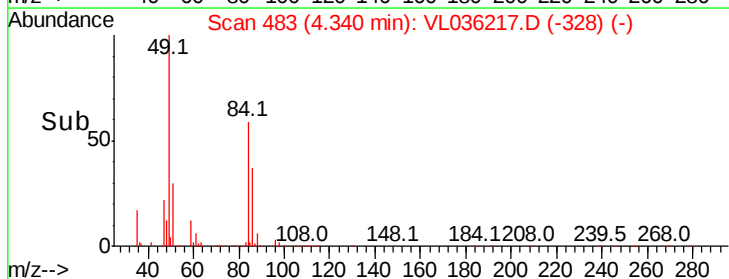
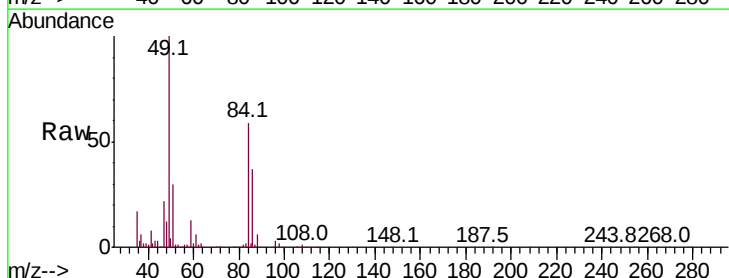
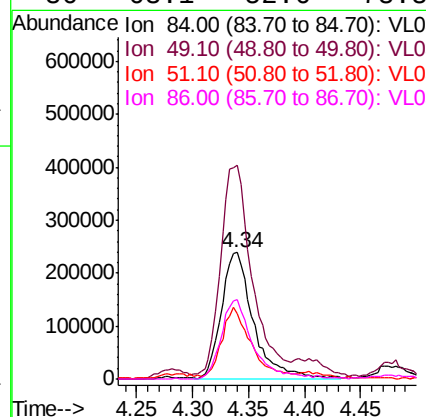
Manual Integrations  
APPROVED

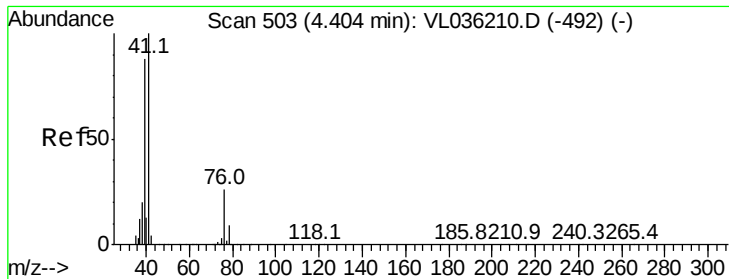
MMDadoda  
1/18/2021 3:49:04 PM



#20  
Methylene Chloride  
Concen: 8.430 ppbv m  
RT: 4.34 min Scan# 483  
Delta R.T. -0.00 min  
Lab File: VL036217.D  
Acq: 13 Jan 2021 7:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 84      | 100   |       |       |
| 49      | 169.2 | 134.1 | 201.1 |
| 51      | 51.4  | 37.4  | 56.0  |
| 86      | 63.1  | 52.6  | 78.8  |





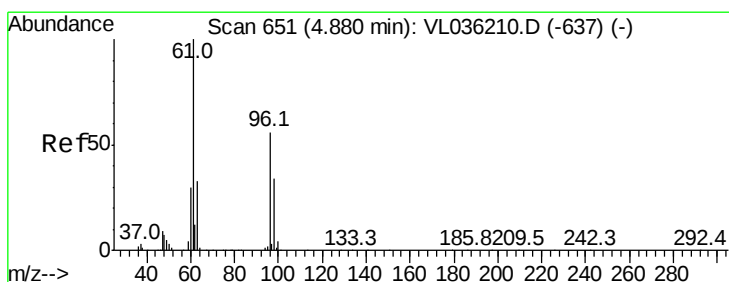
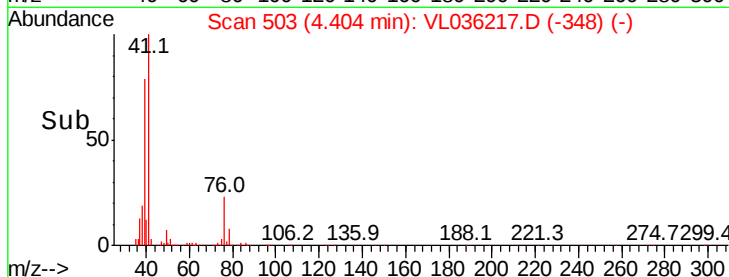
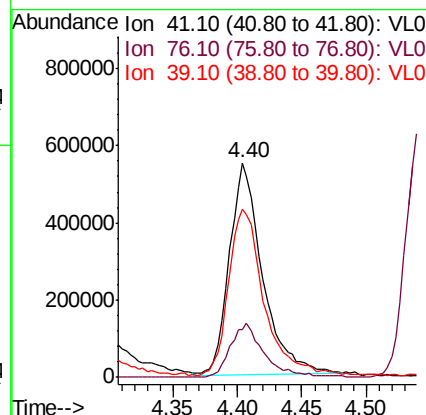
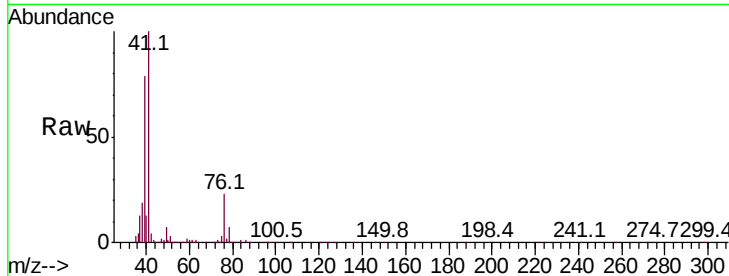
#21  
Allvl Chloride  
Concen: 10.098 ppbv  
RT: 4.40 min Scan# 503  
Delta R.T. -0.00 min  
Lab File: VL036217.D  
Acq: 13 Jan 2021 7:41

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL011321

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 76      | 26.0  | 20.5  | 30.7  |
| 39      | 88.6  | 67.8  | 101.8 |

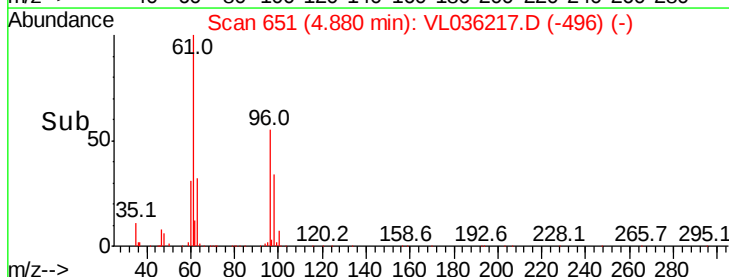
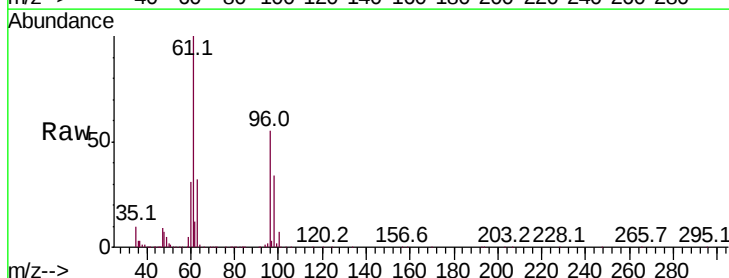
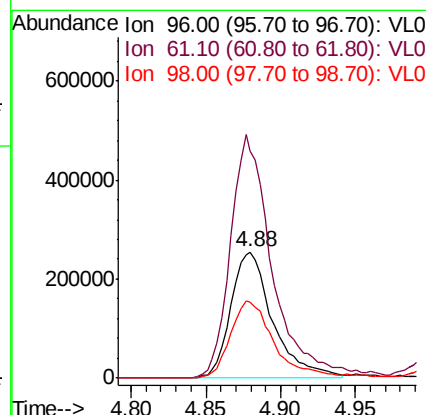
Manual Integrations  
APPROVED

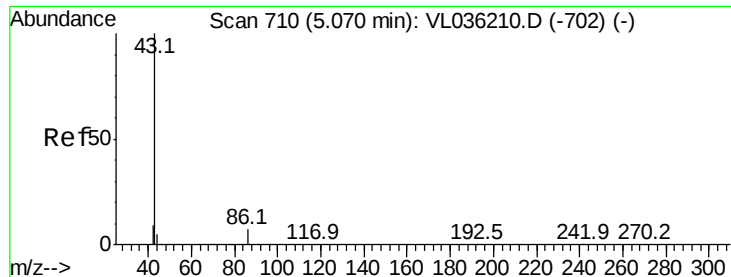
MMDadoda  
1/18/2021 3:49:04 PM



#22  
trans-1,2-Dichloroethene  
Concen: 9.644 ppbv  
RT: 4.88 min Scan# 651  
Delta R.T. -0.00 min  
Lab File: VL036217.D  
Acq: 13 Jan 2021 7:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 180.5 | 142.7 | 214.1 |
| 98      | 60.8  | 48.7  | 73.1  |





#23

Vinyl Acetate

Concen: 9.877 ppbv

RT: 5.07 min Scan# 710

Delta R.T. -0.00 min

Lab File: VL036217.D

Acq: 13 Jan 2021 7:41

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL011321

Tot Ion: 43 Resp: 2128542

Ion Ratio Lower Upper

43 100

86 6.1 4.9 7.3

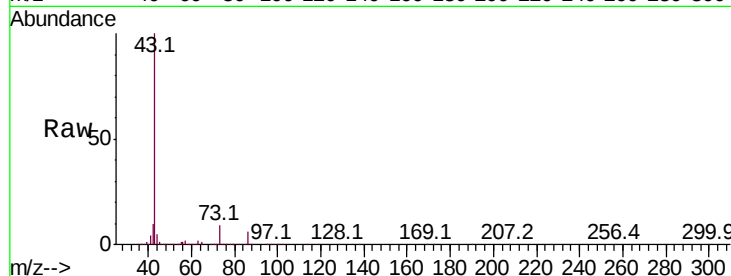
42 10.3 7.8 11.6

44 4.8 3.7 5.5

Manual Integrations  
APPROVED

MMDadoda

1/18/2021 3:49:04 PM

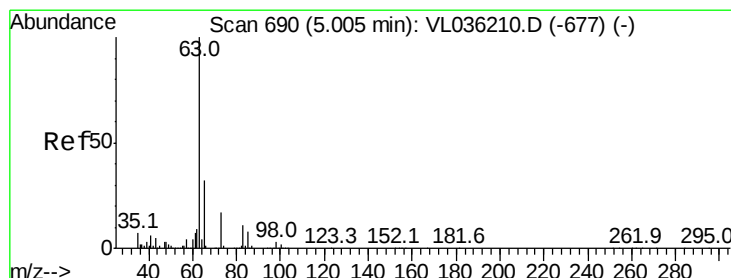
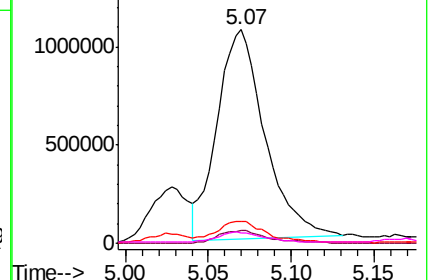
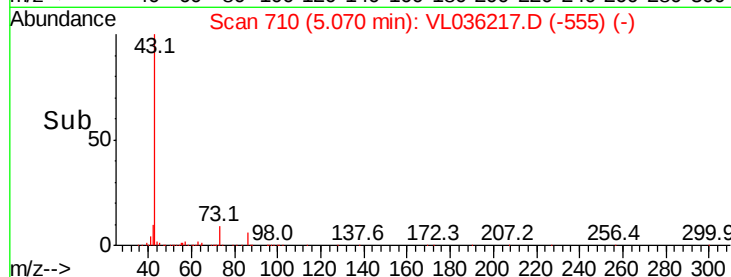


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.465 ppbv

RT: 5.01 min Scan# 690

Delta R.T. -0.00 min

Lab File: VL036217.D

Acq: 13 Jan 2021 7:41

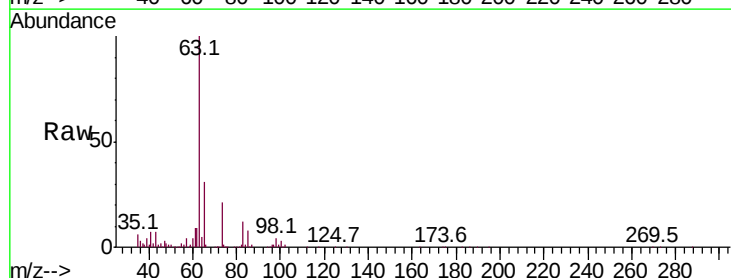
Tgt Ion: 63 Resp: 1477592

Ion Ratio Lower Upper

63 100

98 3.4 1.7 5.1

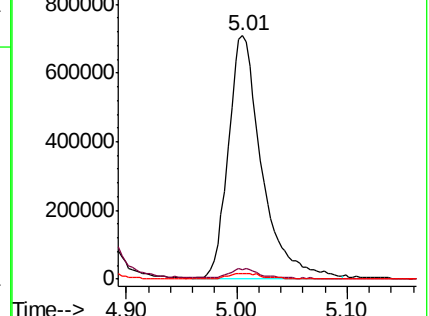
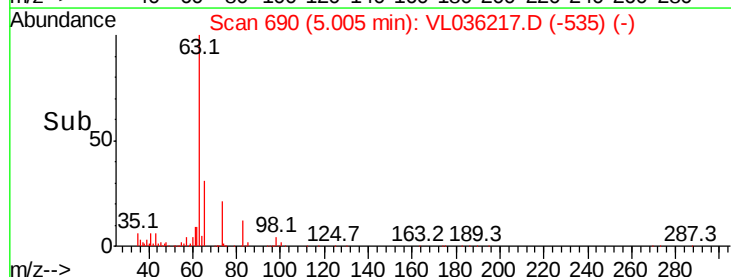
100 2.5 1.1 3.1

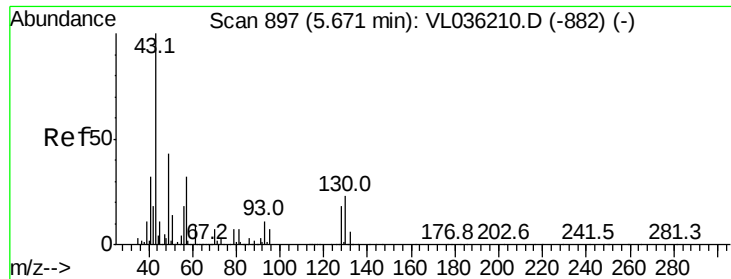


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





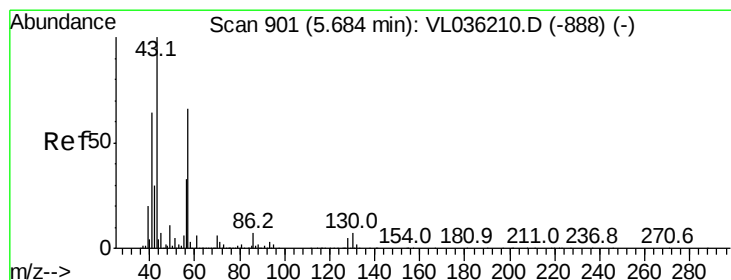
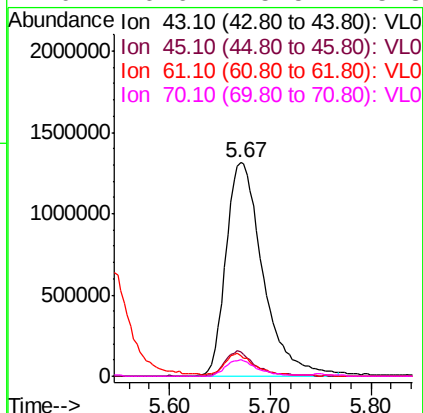
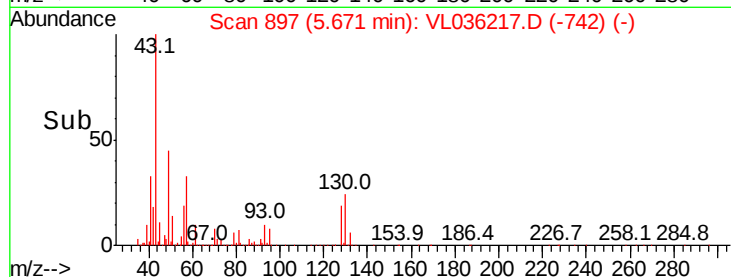
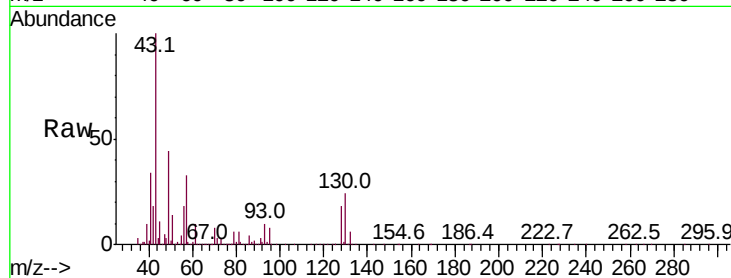
#25  
Ethyl Acetate  
Concen: 9.383 ppbv  
RT: 5.67 min Scan# 897  
Delta R.T. -0.00 min  
Lab File: VL036217.D  
Acq: 13 Jan 2021 7:41

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL011321

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 45      | 10.2  | 8.3   | 12.5  |
| 61      | 9.4   | 7.4   | 11.2  |
| 70      | 6.6   | 5.5   | 8.3   |

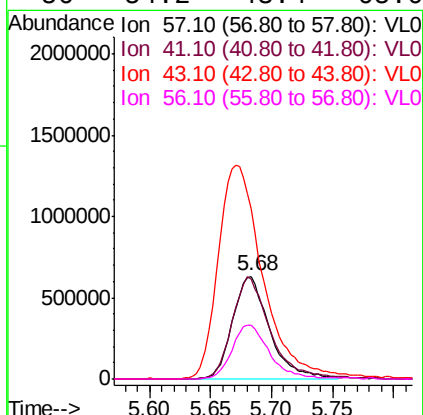
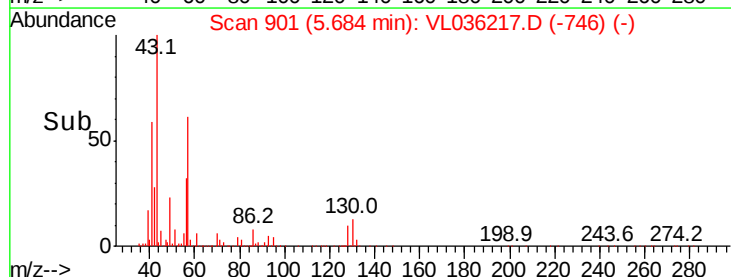
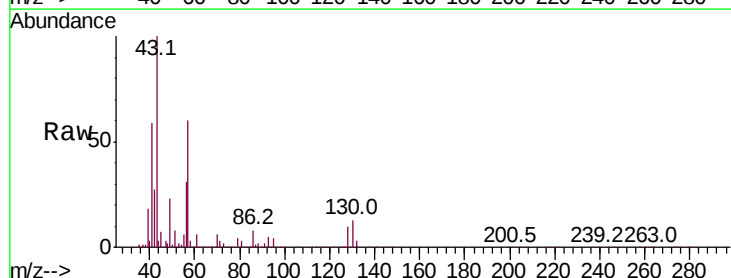
Manual Integrations  
APPROVED

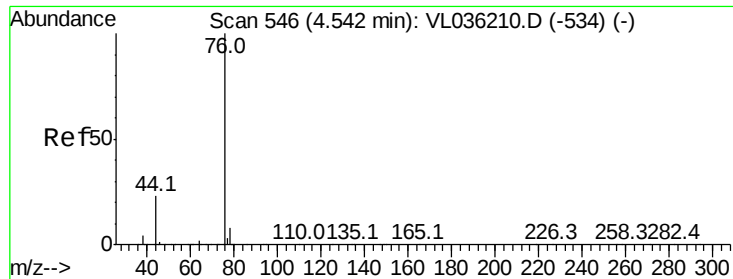
MMDadoda  
1/18/2021 3:49:04 PM



#26  
Hexane  
Concen: 8.947 ppbv  
RT: 5.68 min Scan# 901  
Delta R.T. -0.00 min  
Lab File: VL036217.D  
Acq: 13 Jan 2021 7:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 57      | 100   |       |       |
| 41      | 103.1 | 83.0  | 124.6 |
| 43      | 254.5 | 202.4 | 303.6 |
| 56      | 54.2  | 43.4  | 65.0  |





#27

Carbon Disulfide

Concen: 11.059 ppbv

RT: 4.54 min Scan# 546

Delta R.T. -0.00 min

Lab File: VL036217.D

Acq: 13 Jan 2021 7:41

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL011321

Tot Ion: 76 Resp: 1314574

Ion Ratio Lower Upper

76 100

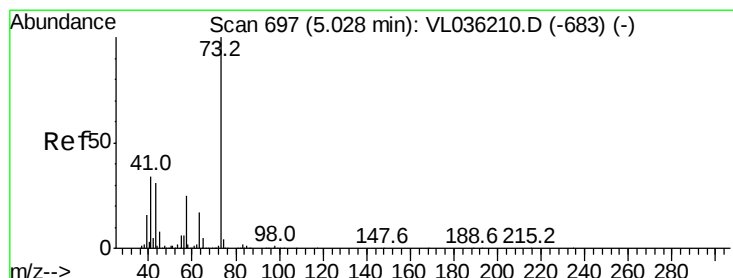
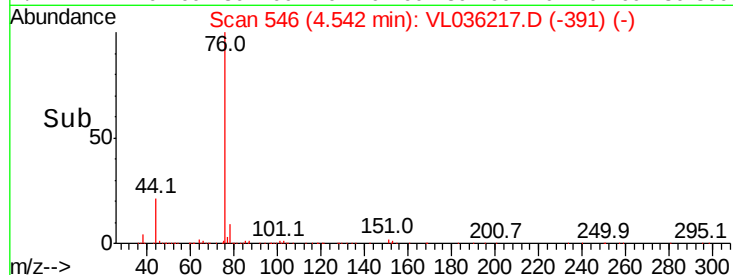
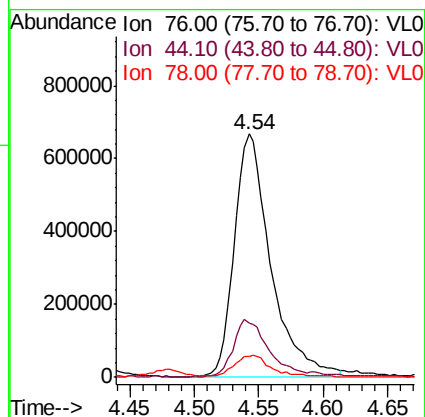
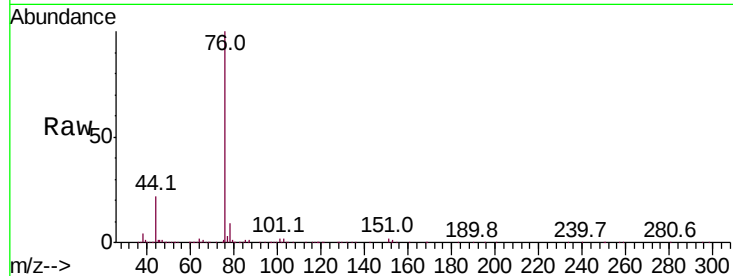
44 23.6 19.0 28.6

78 9.4 8.0 12.0

Manual Integrations  
APPROVED

MMDadoda

1/18/2021 3:49:04 PM



#28

Methyl tert-Butyl Ether

Concen: 9.692 ppbv

RT: 5.02 min Scan# 696

Delta R.T. -0.00 min

Lab File: VL036217.D

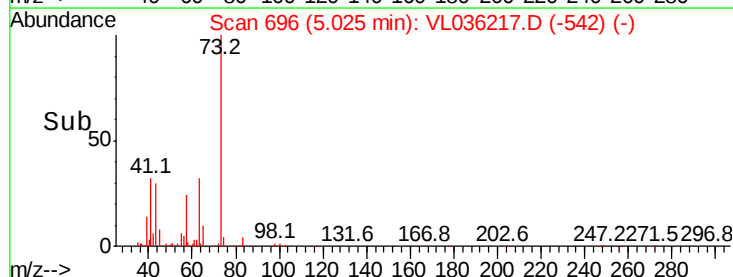
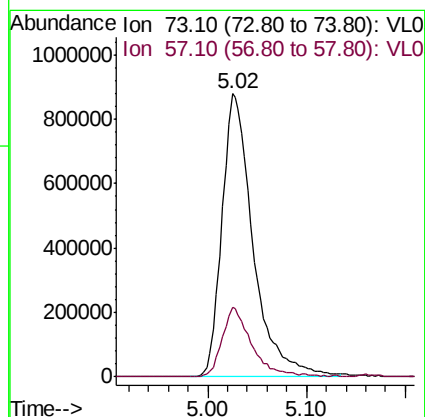
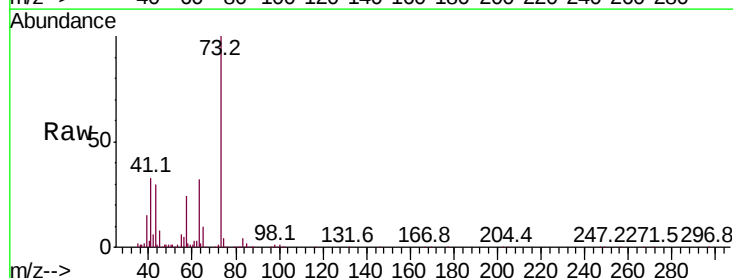
Acq: 13 Jan 2021 7:41

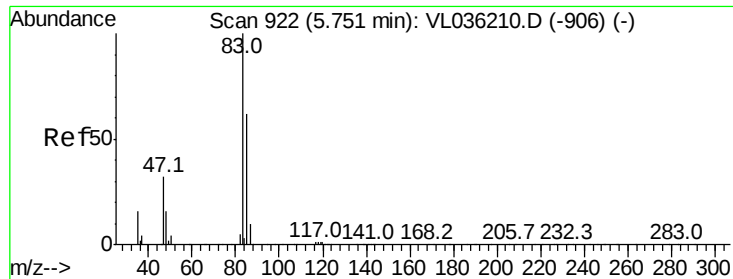
Tgt Ion: 73 Resp: 1948607

Ion Ratio Lower Upper

73 100

57 23.7 20.4 30.6





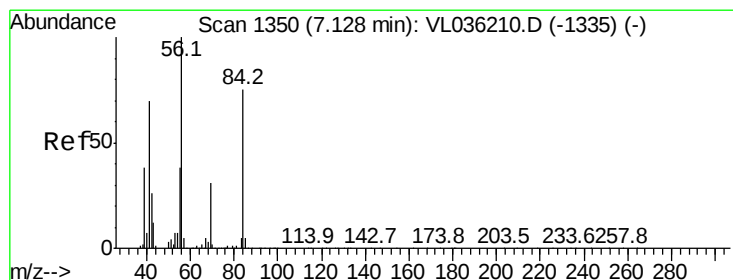
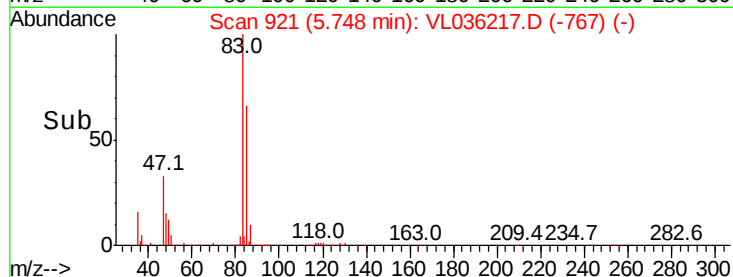
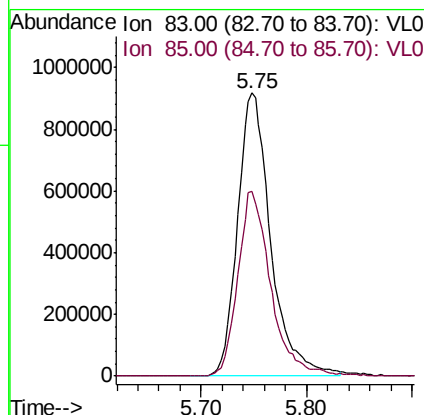
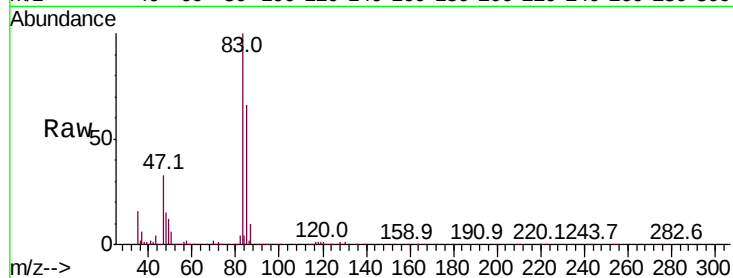
#29  
Chloroform  
Concen: 9.387 ppbv  
RT: 5.75 min Scan# 921  
Delta R.T. -0.00 min  
Lab File: VL036217.D  
Acq: 13 Jan 2021 7:41

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL011321

Tot Ion: 83 Resp: 1998135  
Ion Ratio Lower Upper  
83 100  
85 65.3 49.3 73.9

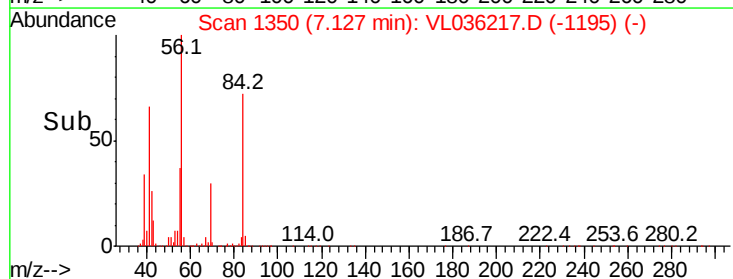
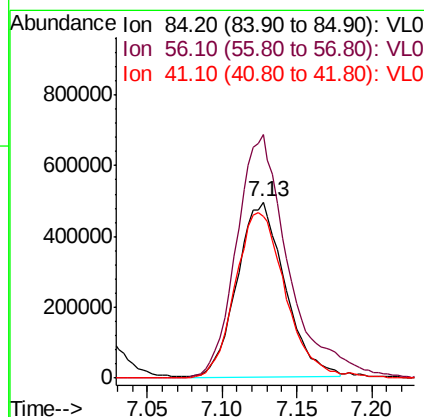
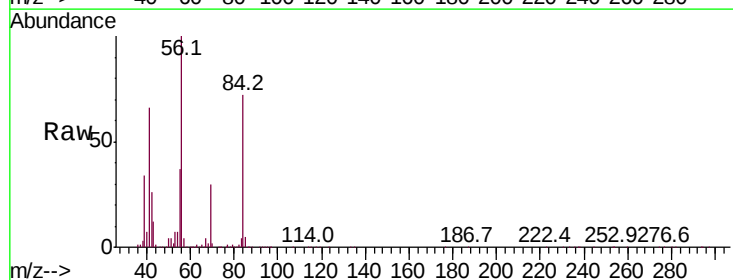
Manual Integrations  
APPROVED

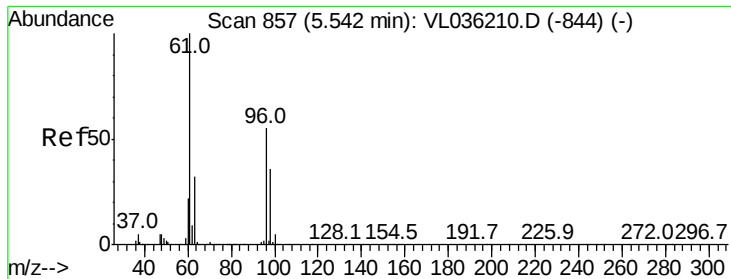
MMDadoda  
1/18/2021 3:49:04 PM



#30  
Cyclohexane  
Concen: 9.770 ppbv  
RT: 7.13 min Scan# 1350  
Delta R.T. -0.00 min  
Lab File: VL036217.D  
Acq: 13 Jan 2021 7:41

Tgt Ion: 84 Resp: 1109899  
Ion Ratio Lower Upper  
84 100  
56 151.7 119.4 179.0  
41 98.5 79.4 119.0





#31

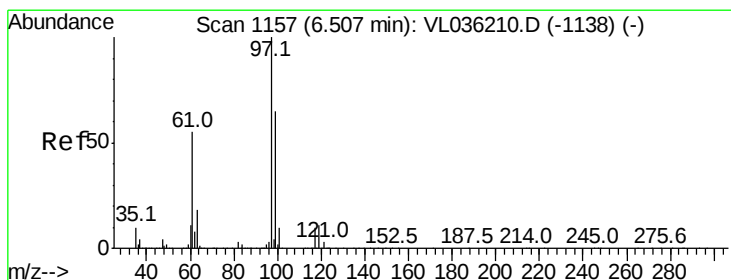
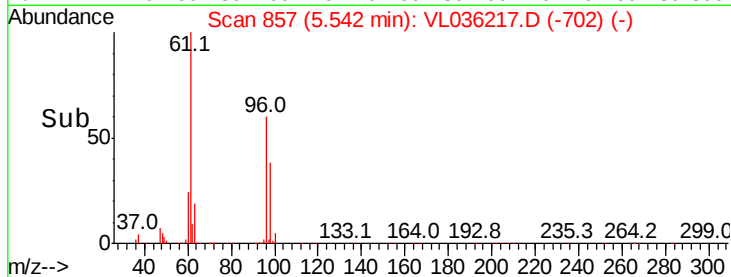
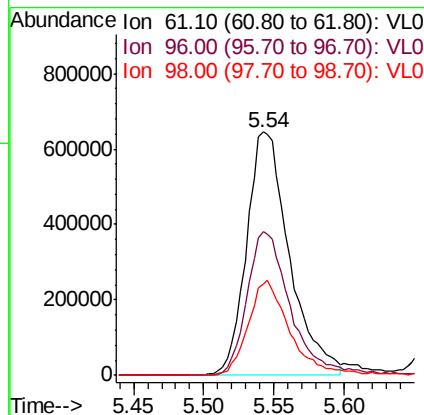
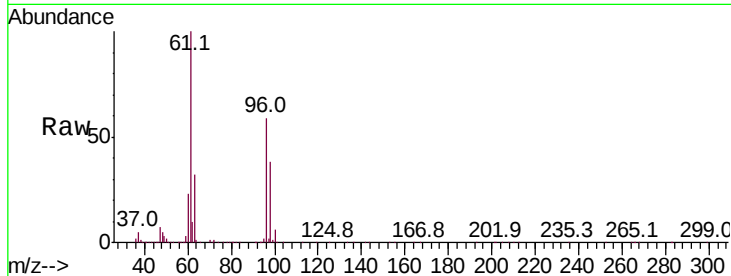
cis-1,2-Dichloroethene  
Concen: 9.634 ppbv  
RT: 5.54 min Scan# 857  
Delta R.T. -0.00 min  
Lab File: VL036217.D  
Acq: 13 Jan 2021 7:41

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL011321

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 61      | 100   |       |       |
| 96      | 59.2  | 44.1  | 66.1  |
| 98      | 37.4  | 28.6  | 42.8  |

Manual Integrations  
APPROVED

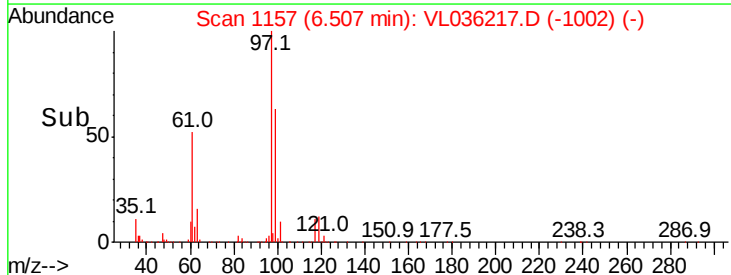
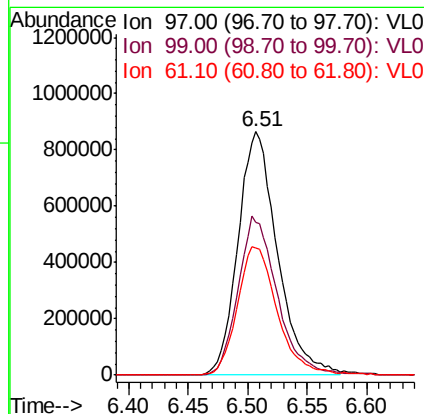
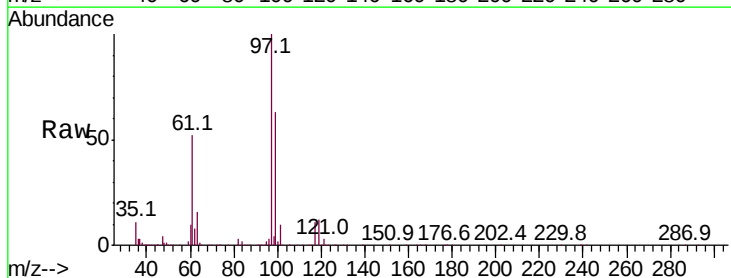
MMDadoda  
1/18/2021 3:49:04 PM

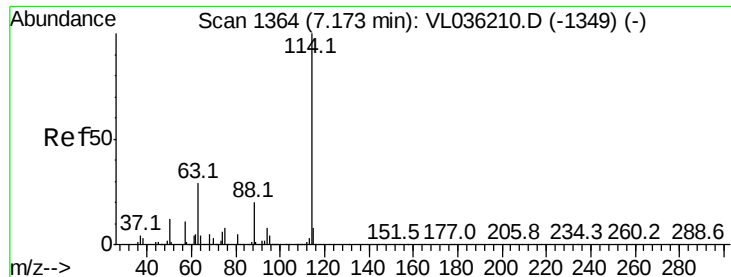


#32

1,1,1-Trichloroethane  
Concen: 9.630 ppbv  
RT: 6.51 min Scan# 1157  
Delta R.T. -0.00 min  
Lab File: VL036217.D  
Acq: 13 Jan 2021 7:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 65.0  | 52.0  | 78.0  |
| 61      | 53.6  | 43.6  | 65.4  |





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. 0.00 min

Lab File: VL036217.D

Acq: 13 Jan 2021 7:41

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL011321

Tot Ion:114 Resp: 3318156

Ion Ratio Lower Upper

114 100

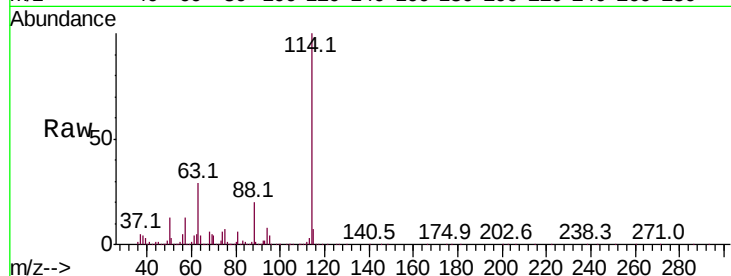
63 30.5 24.7 37.1

88 20.6 16.6 24.8

Manual Integrations  
APPROVED

MMDadoda

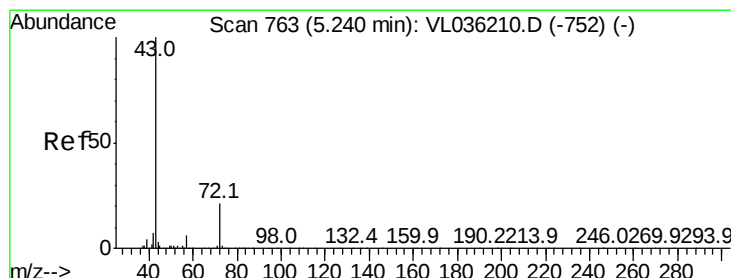
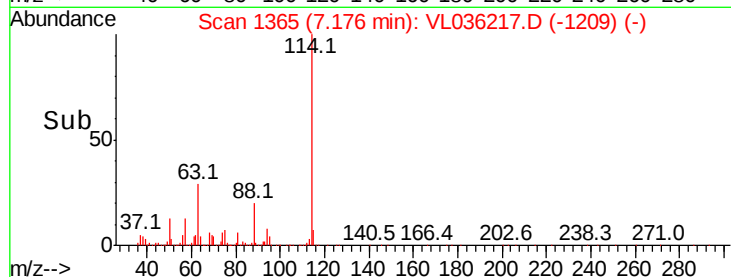
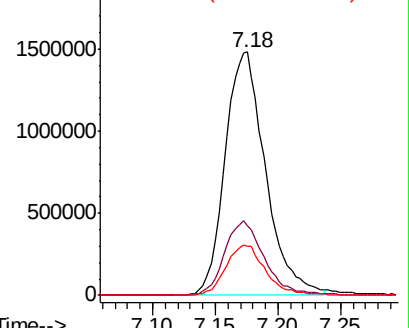
1/18/2021 3:49:04 PM



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 8.679 ppbv

RT: 5.24 min Scan# 763

Delta R.T. -0.00 min

Lab File: VL036217.D

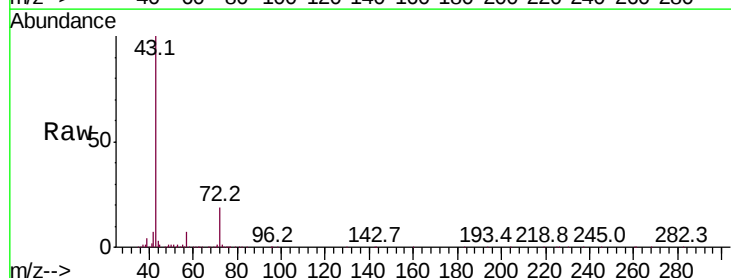
Acq: 13 Jan 2021 7:41

Tgt Ion: 43 Resp: 2120835

Ion Ratio Lower Upper

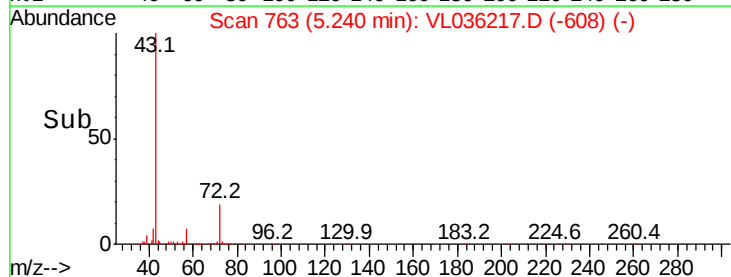
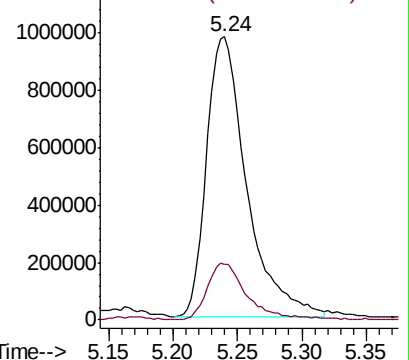
43 100

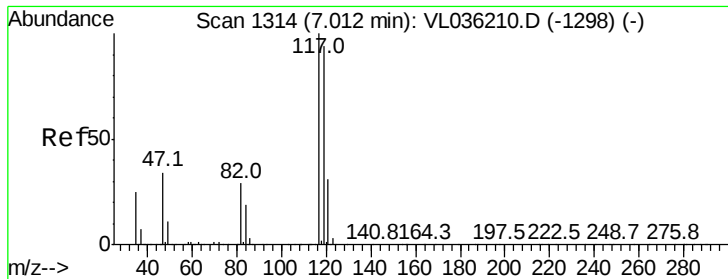
72 20.3 16.1 24.1



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 9.545 ppbv

RT: 7.01 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VL036217.D

Acq: 13 Jan 2021 7:41

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL011321

Tot Ion: 117 Resp: 2001185

Ion Ratio Lower Upper

117 100

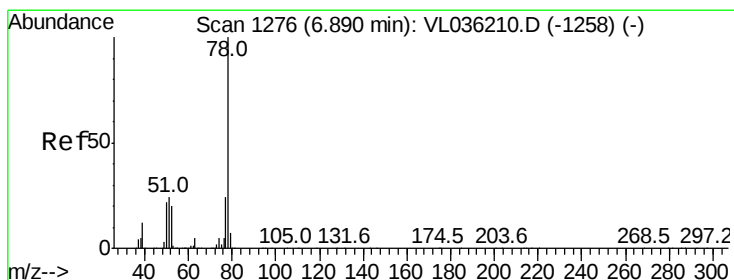
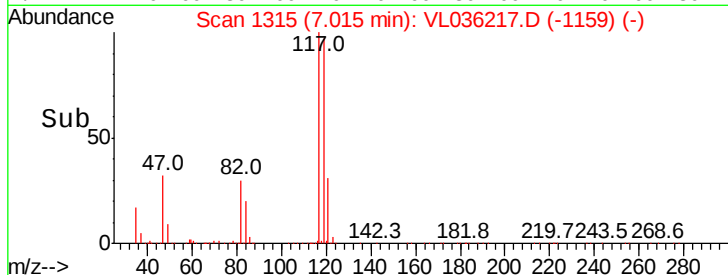
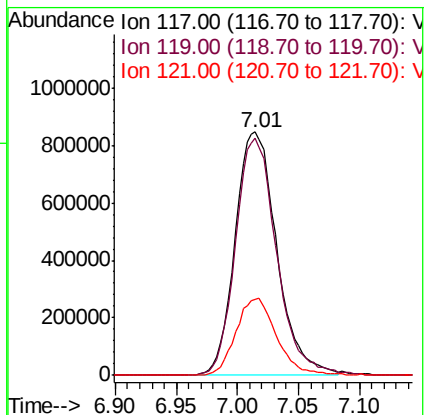
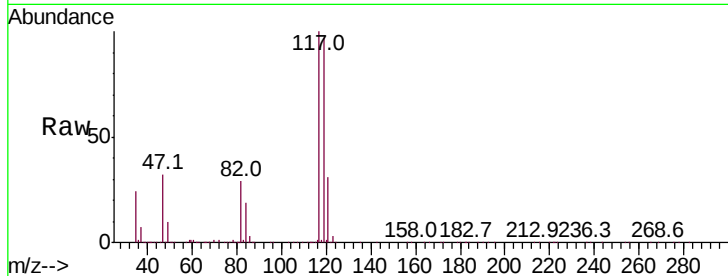
119 97.4 74.9 112.3

121 31.1 25.0 37.6

Manual Integrations  
APPROVED

MMDadoda

1/18/2021 3:49:04 PM



#36

Benzene

Concen: 8.894 ppbv

RT: 6.89 min Scan# 1275

Delta R.T. -0.00 min

Lab File: VL036217.D

Acq: 13 Jan 2021 7:41

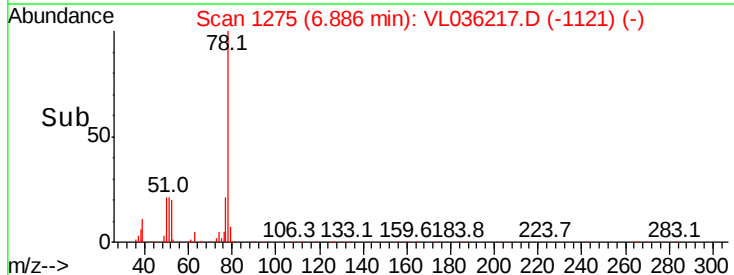
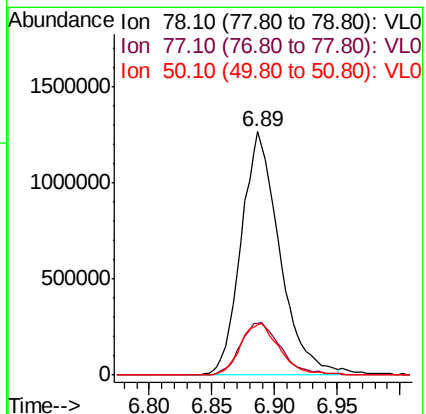
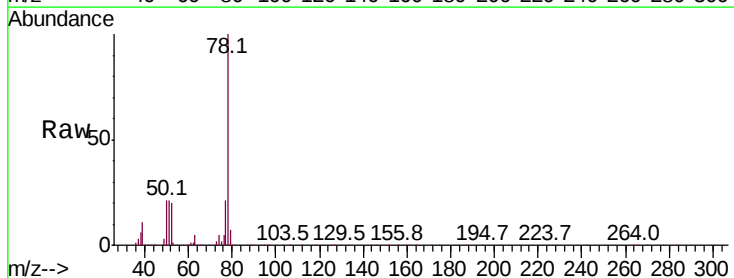
Tgt Ion: 78 Resp: 2704184

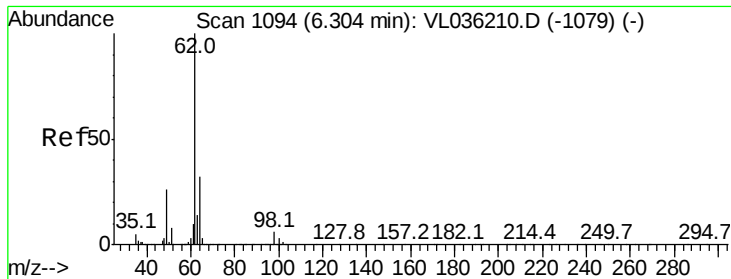
Ion Ratio Lower Upper

78 100

77 21.3 19.4 29.0

50 20.8 17.4 26.2





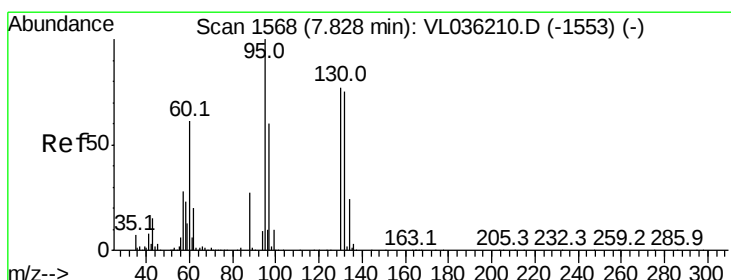
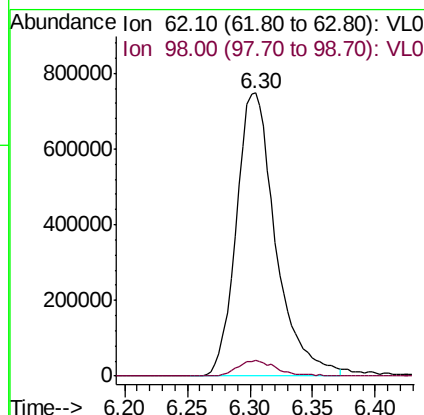
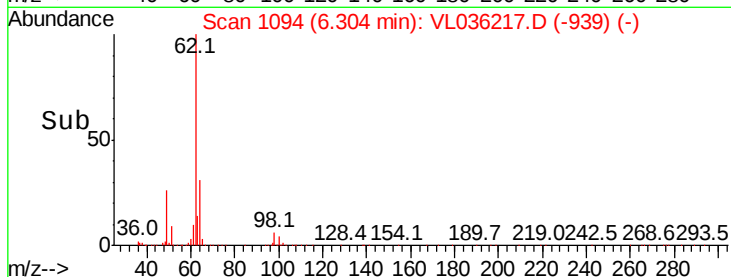
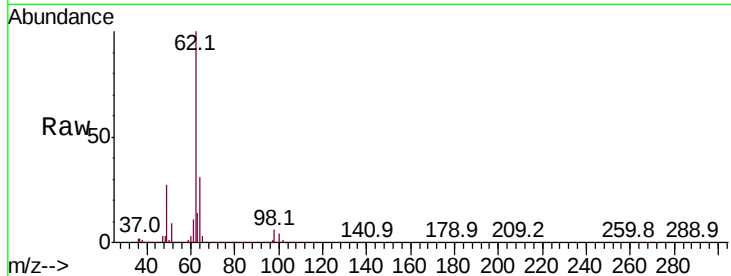
#37  
1,2-Dichloroethane  
Concen: 8.917 ppbv  
RT: 6.30 min Scan# 1094  
Delta R.T. -0.00 min  
Lab File: VL036217.D  
Acq: 13 Jan 2021 7:41

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL011321

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 62      | 100   |       |       |
| 98      | 5.6   | 4.4   | 6.6   |

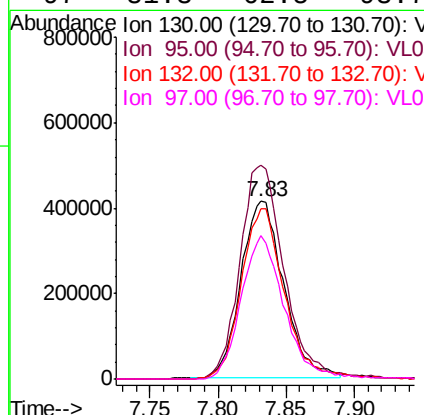
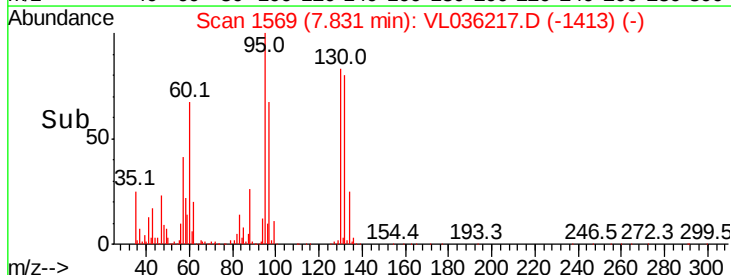
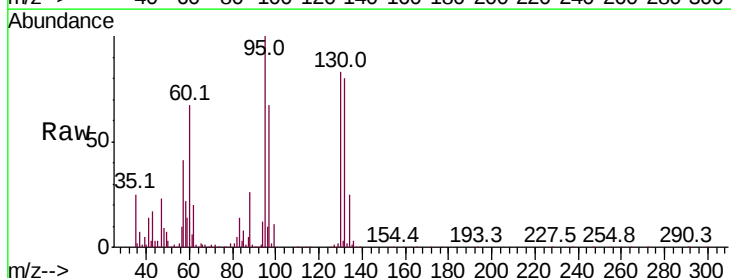
Manual Integrations  
APPROVED

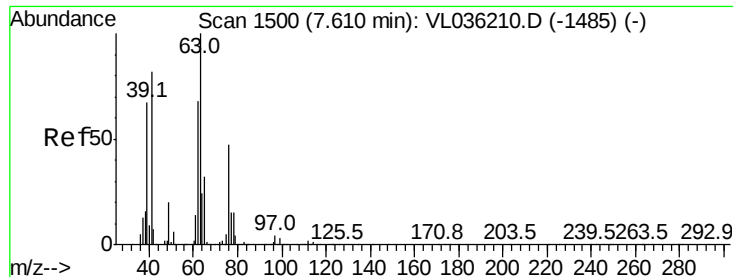
MMDadoda  
1/18/2021 3:49:04 PM



#38  
Trichloroethene  
Concen: 8.023 ppbv  
RT: 7.83 min Scan# 1569  
Delta R.T. 0.00 min  
Lab File: VL036217.D  
Acq: 13 Jan 2021 7:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 130     | 100   |       |       |
| 95      | 120.6 | 103.9 | 155.9 |
| 132     | 96.1  | 77.4  | 116.2 |
| 97      | 81.3  | 62.5  | 93.7  |





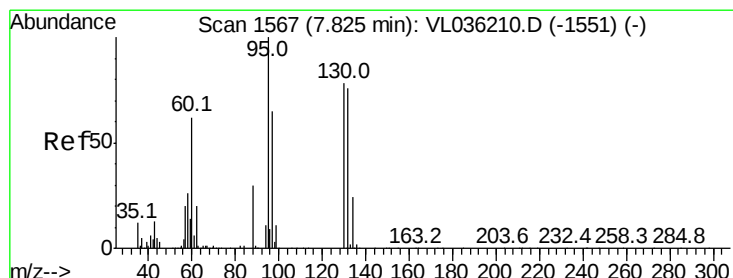
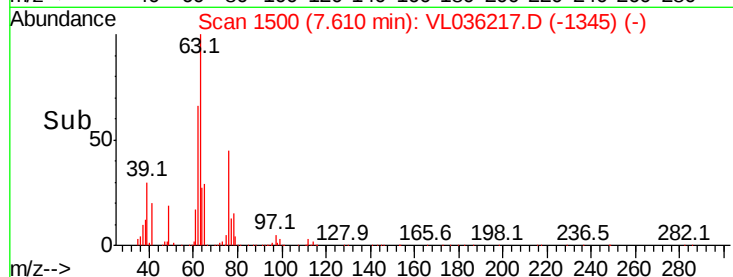
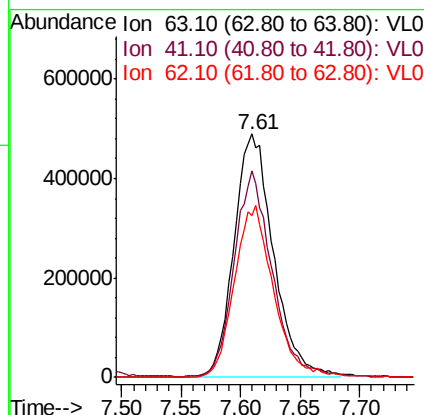
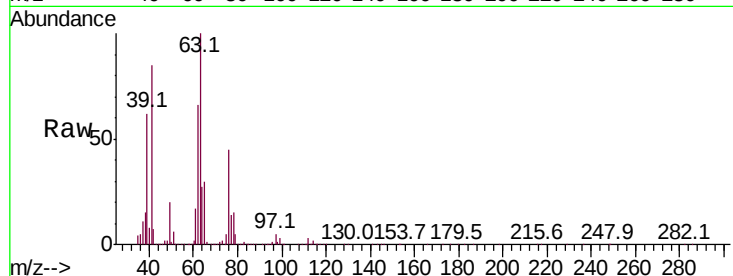
#39  
 1,2-Dichloropropane  
 Concen: 9.093 ppbv  
 RT: 7.61 min Scan# 1500  
 Delta R.T. -0.00 min  
 Lab File: VL036217.D  
 Acq: 13 Jan 2021 7:41

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL011321

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 41      | 84.2  | 66.1  | 99.1  |
| 62      | 66.0  | 54.8  | 82.2  |

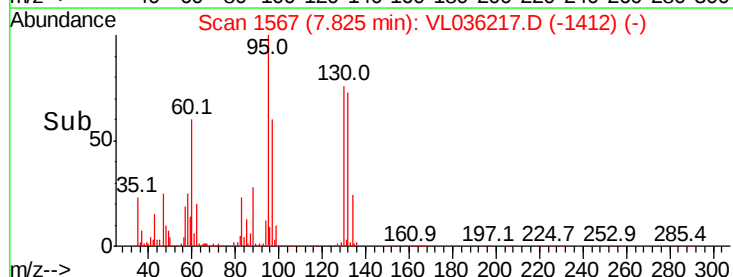
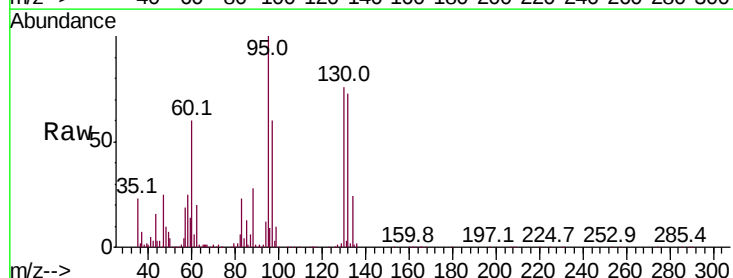
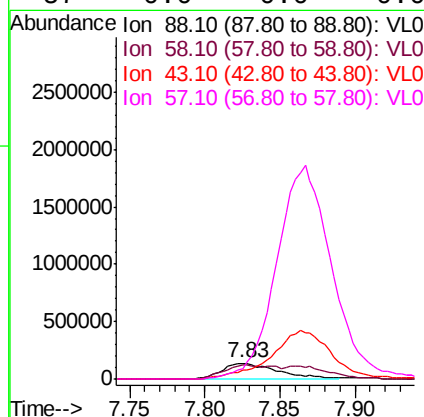
Manual Integrations  
 APPROVED

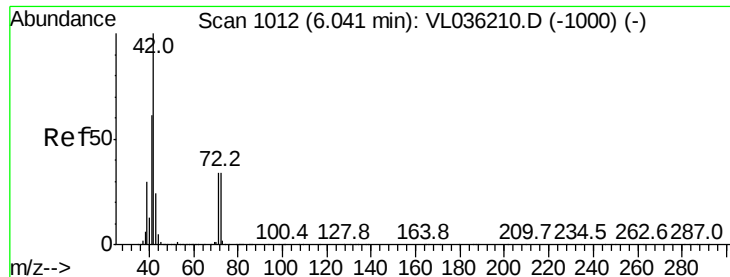
MMDadoda  
 1/18/2021 3:49:04 PM



#40  
 1,4-Dioxane  
 Concen: 7.948 ppbv m  
 RT: 7.83 min Scan# 1567  
 Delta R.T. -0.00 min  
 Lab File: VL036217.D  
 Acq: 13 Jan 2021 7:41

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 88      | 100   |       |        |
| 58      | 80.6  | 123.0 | 184.6# |
| 43      | 0.0   | 0.0   | 0.0    |
| 57      | 0.0   | 0.0   | 0.0    |





#41

Tetrahydrofuran

Concen: 9.320 ppbv

RT: 6.04 min Scan# 1012

Delta R.T. -0.00 min

Lab File: VL036217.D

Acq: 13 Jan 2021 7:41

Instrument :

MSVOA\_L

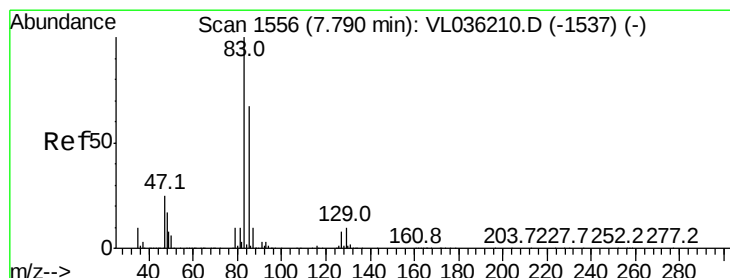
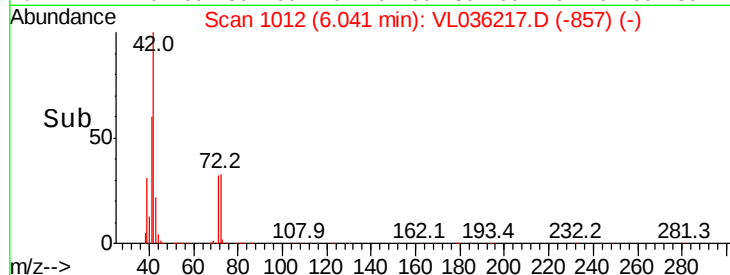
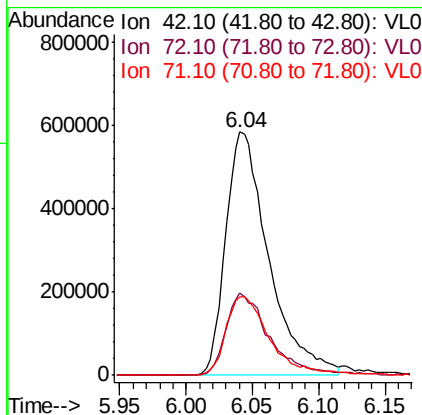
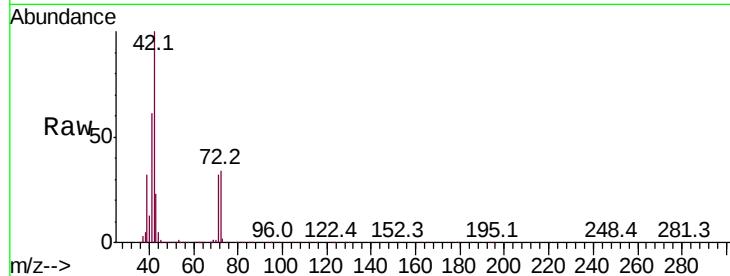
ClientSampleId :

ICVVL011321

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 34.8  | 29.5  | 44.3  |
| 71      | 33.7  | 29.1  | 43.7  |

Manual Integrations  
APPROVED

MMDadoda  
1/18/2021 3:49:04 PM



#42

Bromodichloromethane

Concen: 9.477 ppbv

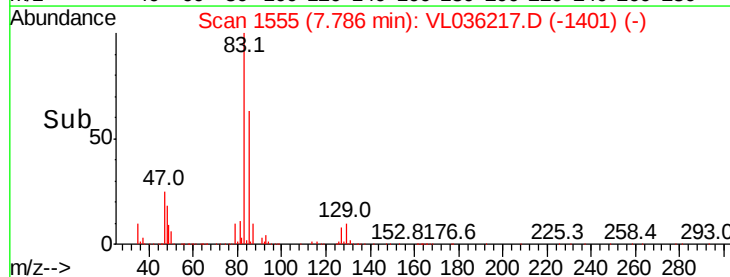
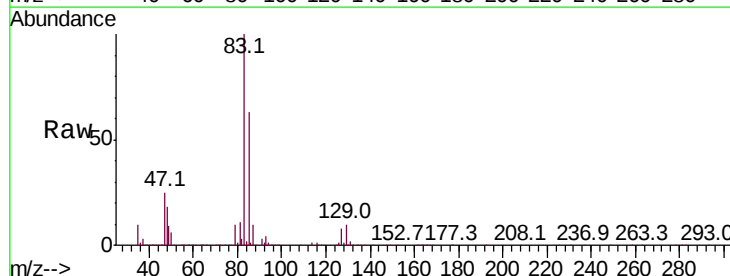
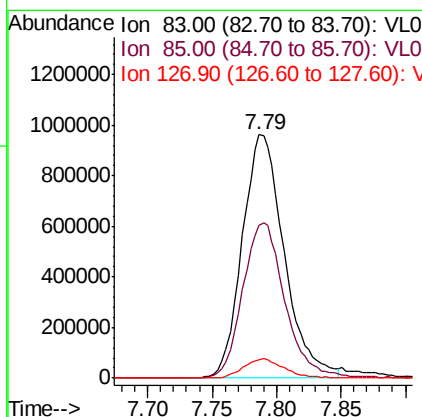
RT: 7.79 min Scan# 1555

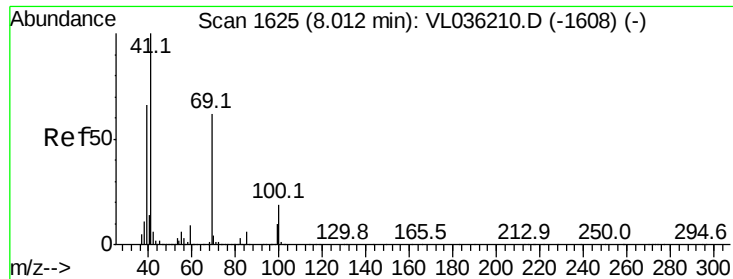
Delta R.T. -0.00 min

Lab File: VL036217.D

Acq: 13 Jan 2021 7:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 62.9  | 53.4  | 80.2  |
| 127     | 7.7   | 6.2   | 9.2   |





#43

Methvl Methacrylate

Concen: 9.571 ppbv

RT: 8.01 min Scan# 1624

Delta R.T. -0.00 min

Lab File: VL036217.D

Acq: 13 Jan 2021 7:41

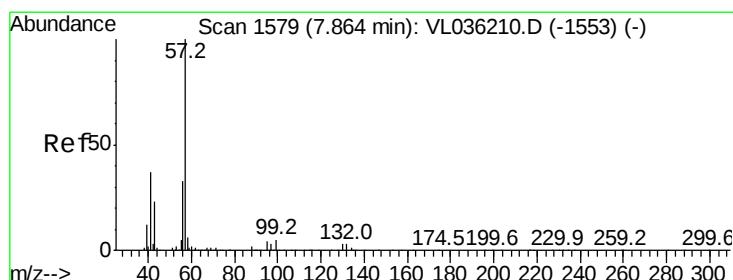
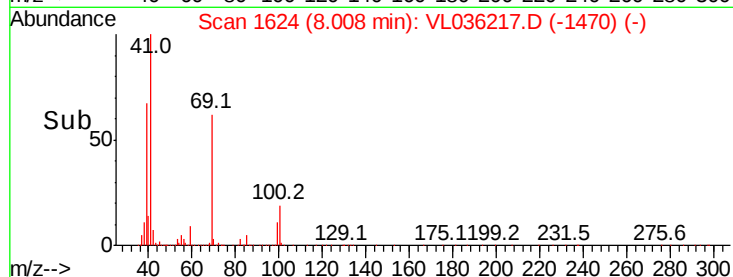
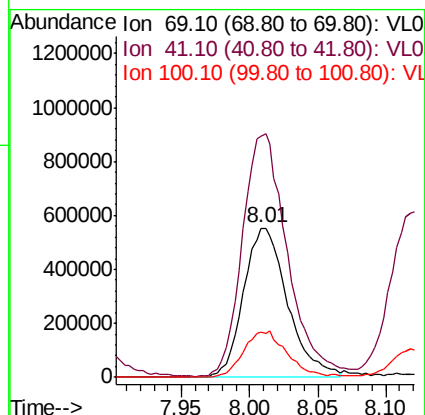
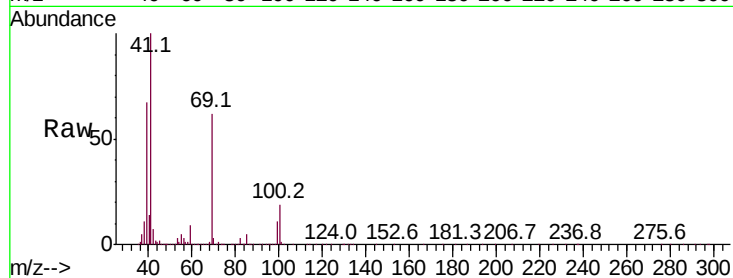
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL011321

Tot Ion: 69 Resp: 1236648

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 69  | 100   |       |       |
| 41  | 167.9 | 133.4 | 200.2 |
| 100 | 31.0  | 24.3  | 36.5  |

Manual Integrations  
APPROVED

MMDadoda  
1/18/2021 3:49:04 PM



#44

2,2,4-Trimethylpentane

Concen: 8.553 ppbv

RT: 7.87 min Scan# 1580

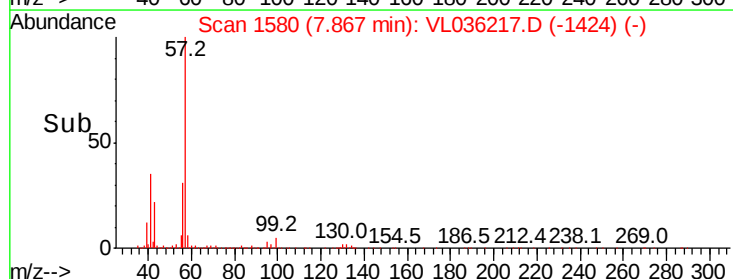
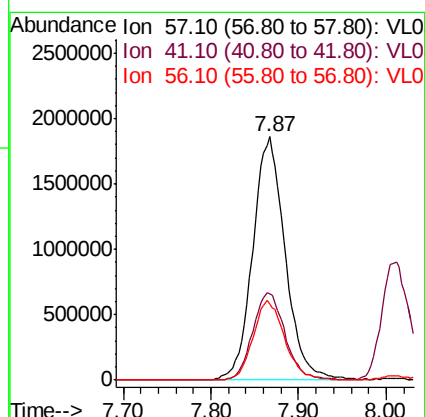
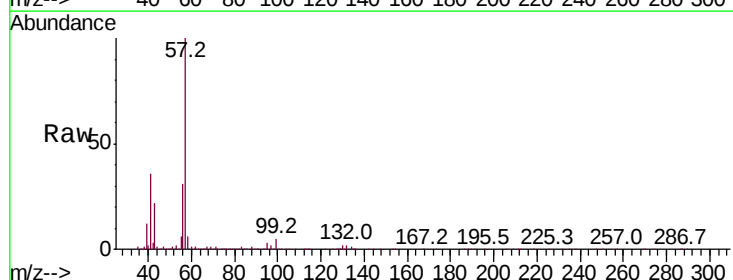
Delta R.T. 0.00 min

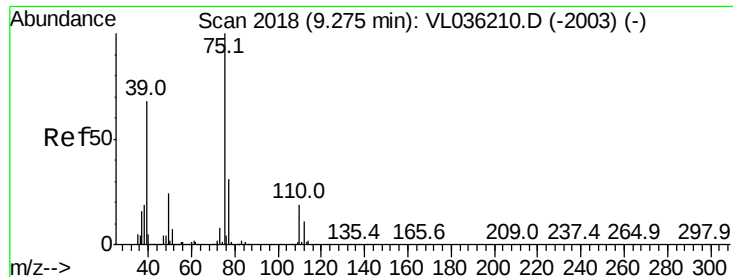
Lab File: VL036217.D

Acq: 13 Jan 2021 7:41

Tgt Ion: 57 Resp: 4776296

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 35.9  | 28.5  | 42.7  |
| 56  | 31.9  | 25.5  | 38.3  |





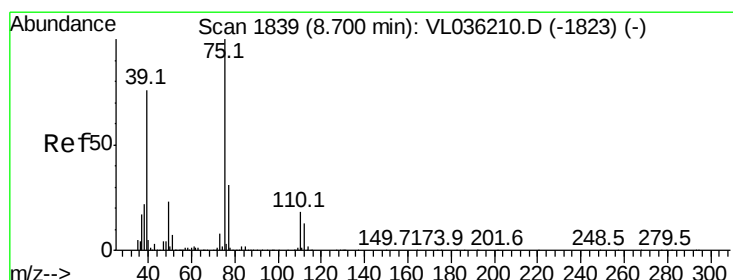
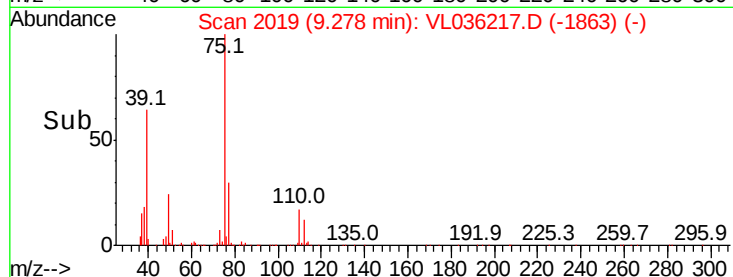
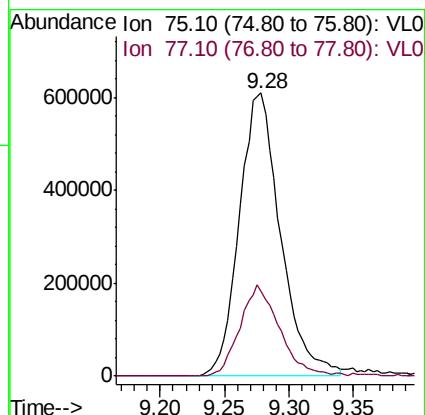
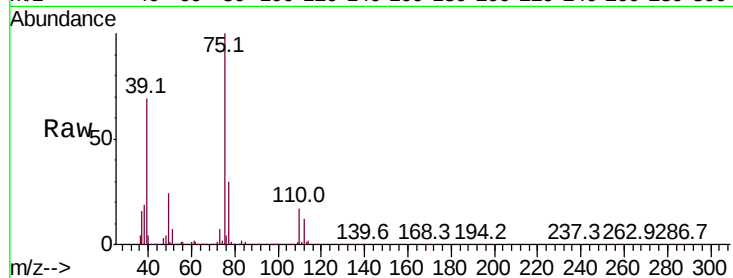
#45  
t-1,3-Dichloropropene  
Concen: 11.042 ppbv  
RT: 9.28 min Scan# 2019  
Delta R.T. 0.00 min  
Lab File: VL036217.D  
Acq: 13 Jan 2021 7:41

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL011321

Tot Ion: 75 Resp: 1355120  
Ion Ratio Lower Upper  
75 100  
77 29.9 24.7 37.1

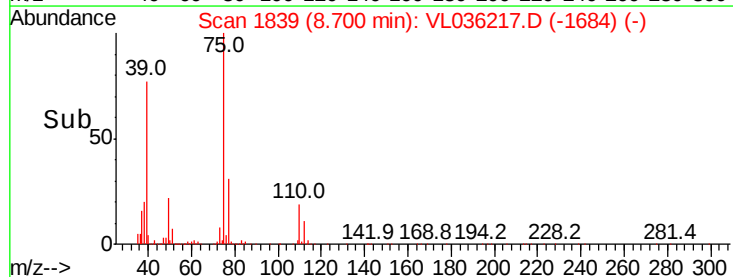
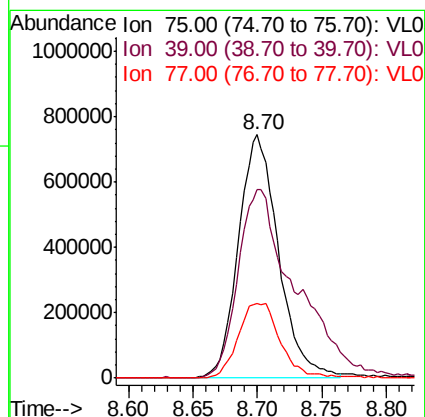
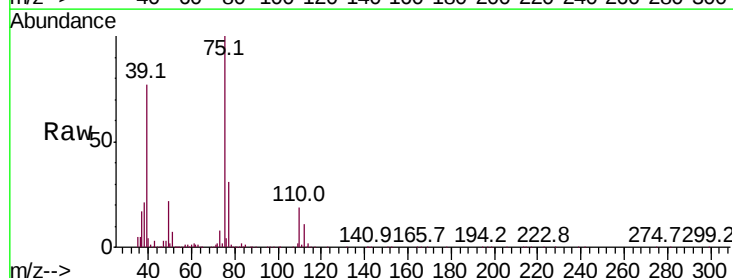
Manual Integrations  
APPROVED

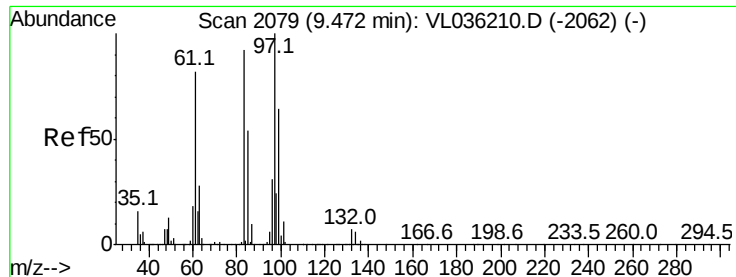
MMDadoda  
1/18/2021 3:49:04 PM



#46  
cis-1,3-Dichloropropene  
Concen: 10.228 ppbv  
RT: 8.70 min Scan# 1839  
Delta R.T. -0.00 min  
Lab File: VL036217.D  
Acq: 13 Jan 2021 7:41

Tgt Ion: 75 Resp: 1613004  
Ion Ratio Lower Upper  
75 100  
39 77.1 61.2 91.8  
77 30.7 24.6 37.0





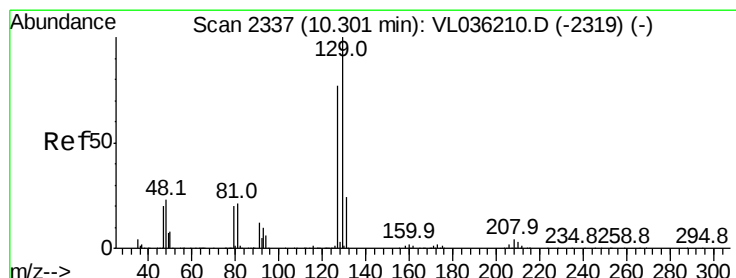
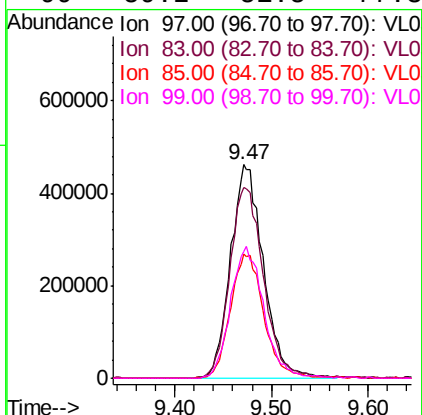
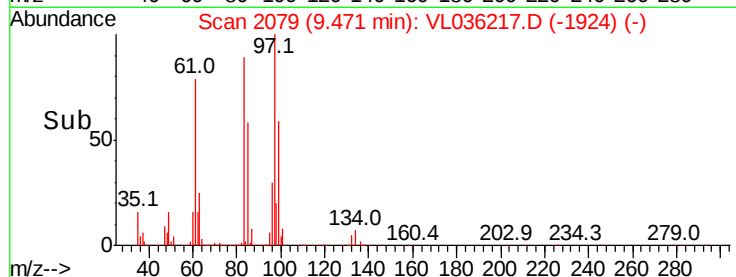
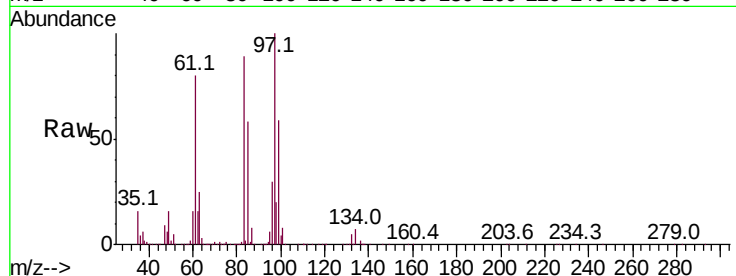
#47  
 1,1,2-Trichloroethane  
 Concen: 9.234 ppbv  
 RT: 9.47 min Scan# 2079  
 Delta R.T. -0.00 min  
 Lab File: VL036217.D  
 Acq: 13 Jan 2021 7:41

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL011321

| Tot Ion | 97    | Resp  | 1090466 |
|---------|-------|-------|---------|
| Ion     | Ratio | Lower | Upper   |
| 97      | 100   |       |         |
| 83      | 89.0  | 73.3  | 109.9   |
| 85      | 58.2  | 43.2  | 64.8    |
| 99      | 59.2  | 51.5  | 77.3    |

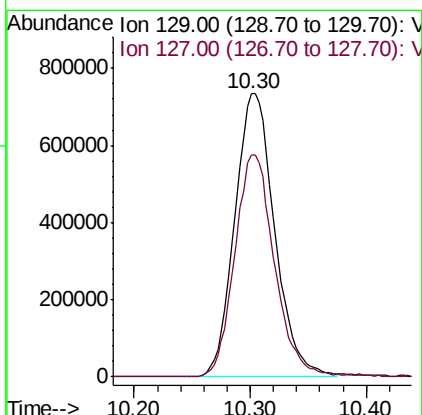
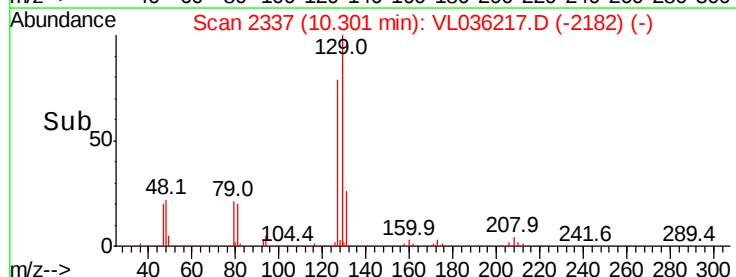
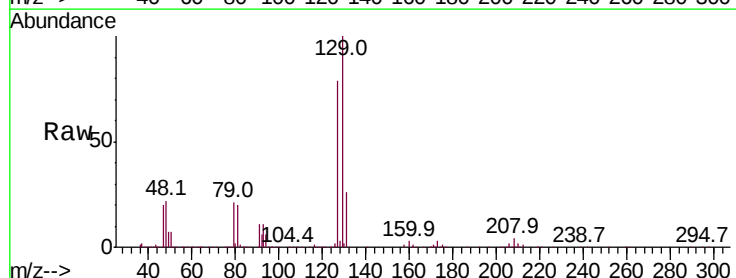
Manual Integrations  
 APPROVED

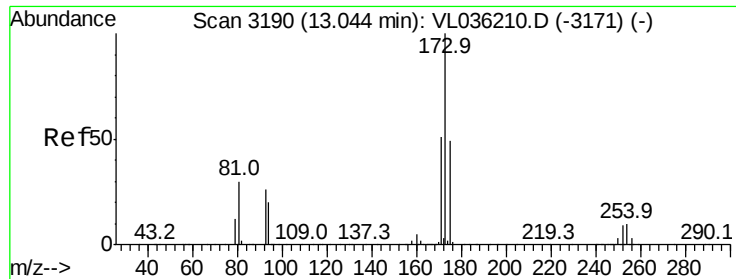
MMDadoda  
 1/18/2021 3:49:04 PM



#48  
 Dibromochloromethane  
 Concen: 10.161 ppbv  
 RT: 10.30 min Scan# 2337  
 Delta R.T. -0.00 min  
 Lab File: VL036217.D  
 Acq: 13 Jan 2021 7:41

| Tgt Ion | 129   | Resp  | 1755600 |
|---------|-------|-------|---------|
| Ion     | Ratio | Lower | Upper   |
| 129     | 100   |       |         |
| 127     | 78.7  | 39.6  | 118.8   |





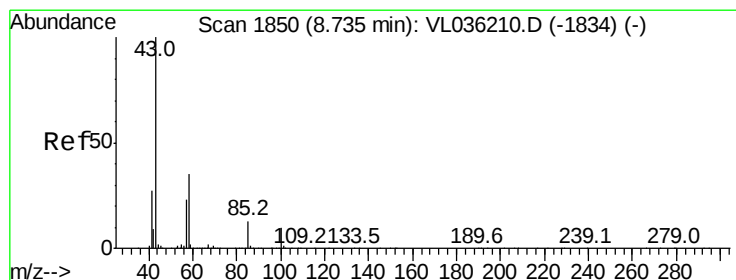
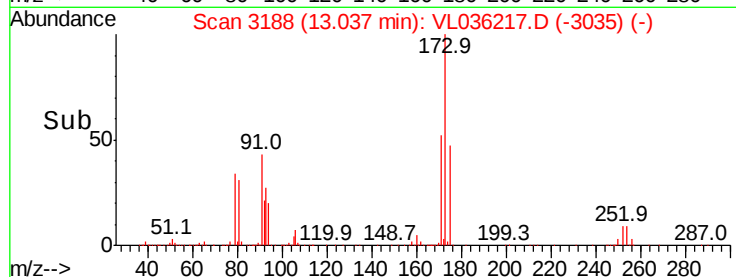
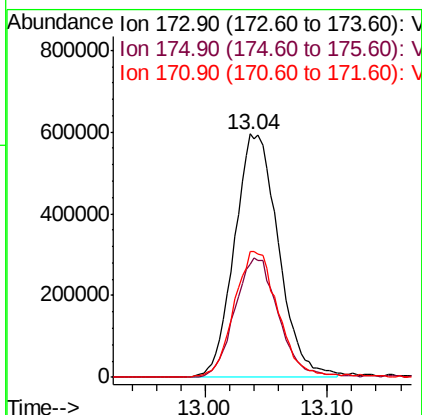
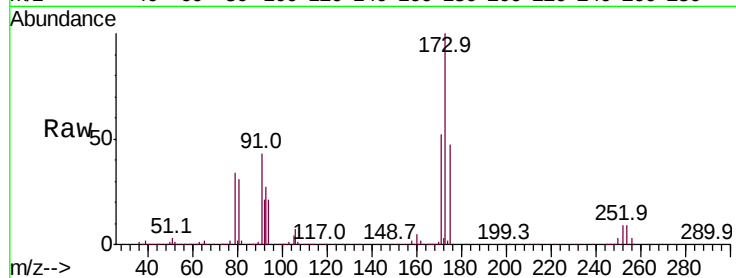
#49  
Bromoform  
Concen: 10.251 ppbv  
RT: 13.04 min Scan# 3188  
Delta R.T. -0.01 min  
Lab File: VL036217.D  
Acq: 13 Jan 2021 7:41

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL011321

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 173     | 100   |       |       |
| 175     | 48.8  | 40.7  | 61.1  |
| 171     | 53.0  | 43.0  | 64.6  |

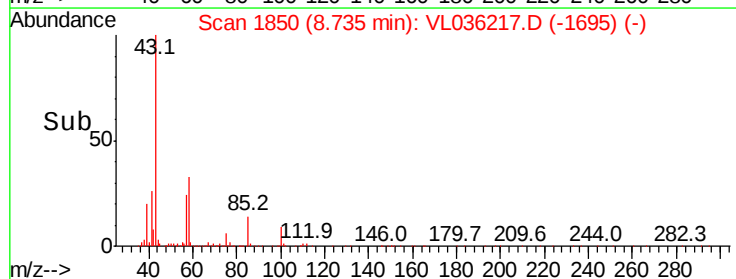
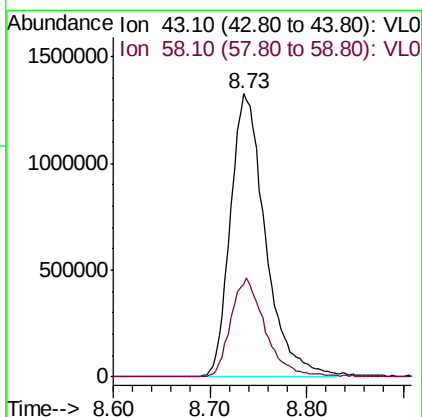
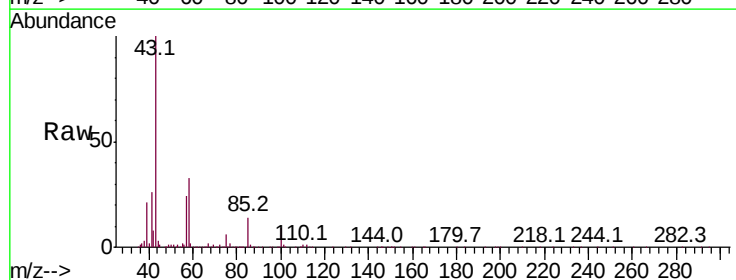
Manual Integrations  
APPROVED

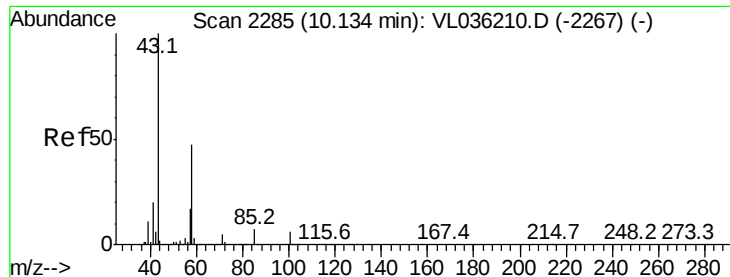
MMDadoda  
1/18/2021 3:49:04 PM



#50  
4-Methyl-2-Pentanone  
Concen: 9.170 ppbv  
RT: 8.73 min Scan# 1850  
Delta R.T. -0.00 min  
Lab File: VL036217.D  
Acq: 13 Jan 2021 7:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 34.6  | 27.6  | 41.4  |





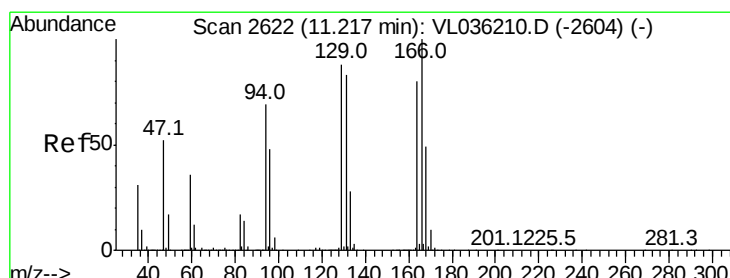
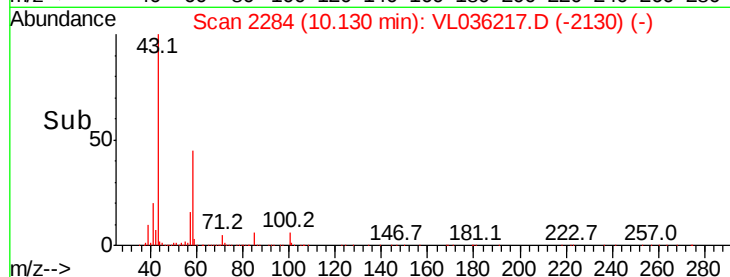
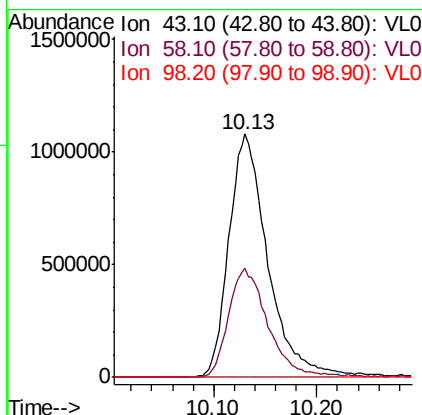
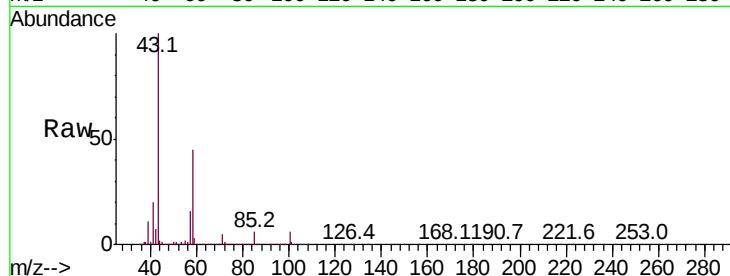
#51  
2-Hexanone  
Concen: 9.781 ppbv  
RT: 10.13 min Scan# 2284  
Delta R.T. -0.00 min  
Lab File: VL036217.D  
Acq: 13 Jan 2021 7:41

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL011321

Tot Ion: 43 Resp: 2811389  
Ion Ratio Lower Upper  
43 100  
58 46.1 37.4 56.0  
98 0.1 0.2 0.2#

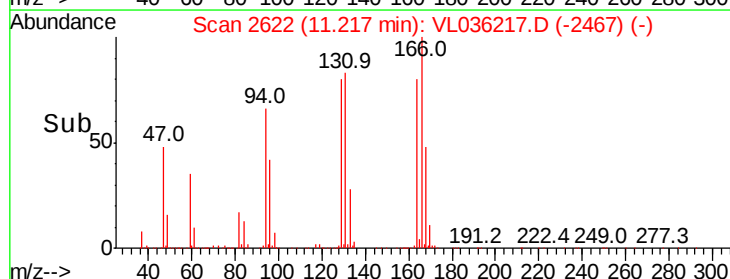
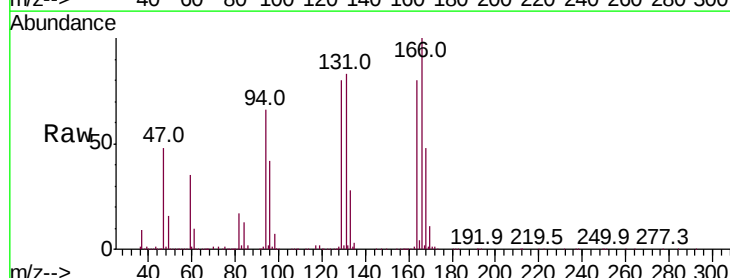
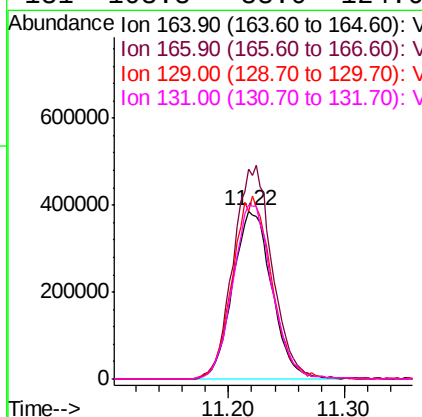
Manual Integrations  
APPROVED

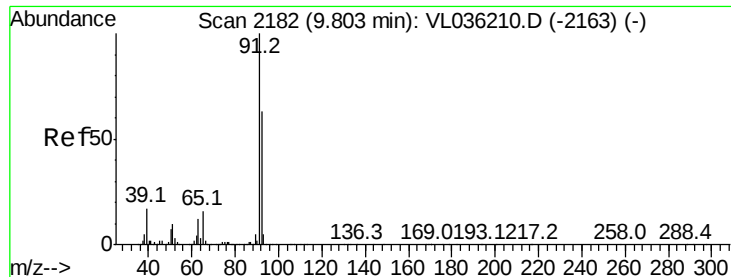
MMDadoda  
1/18/2021 3:49:04 PM



#52  
Tetrachloroethene  
Concen: 8.049 ppbv  
RT: 11.22 min Scan# 2622  
Delta R.T. -0.00 min  
Lab File: VL036217.D  
Acq: 13 Jan 2021 7:41

Tgt Ion: 164 Resp: 901808  
Ion Ratio Lower Upper  
164 100  
166 124.5 99.9 149.9  
129 99.4 88.2 132.4  
131 103.8 83.0 124.6





#53

Toluene

Concen: 9.033 ppbv

RT: 9.80 min Scan# 2182

Delta R.T. -0.00 min

Lab File: VL036217.D

Acq: 13 Jan 2021 7:41

Tot Ion: 91 Resp: 3072301

Ion Ratio Lower Upper

91 100

92 61.4 48.5 72.7

Instrument :

MSVOA\_L

ClientSampleId :

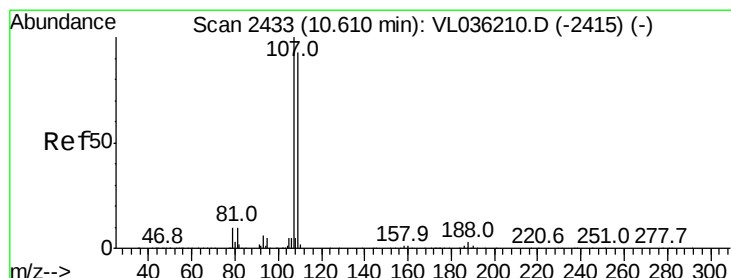
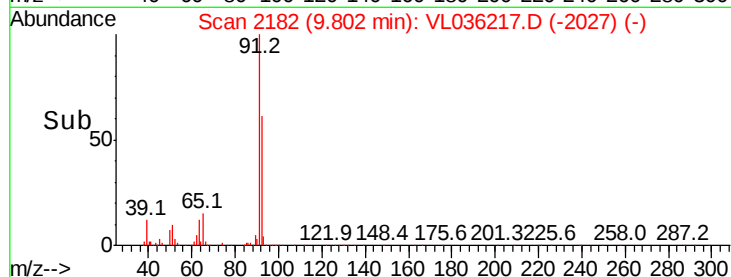
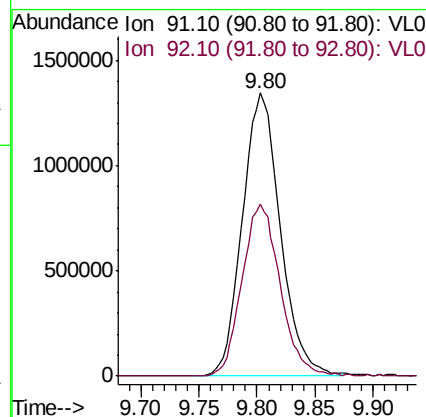
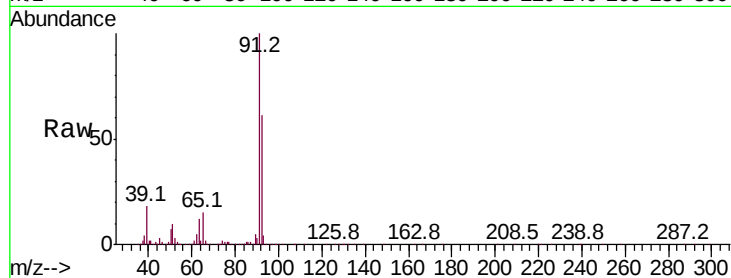
ICVVL011321

Manual Integrations

APPROVED

MMDadoda

1/18/2021 3:49:04 PM



#54

1,2-Dibromoethane

Concen: 9.216 ppbv

RT: 10.61 min Scan# 2433

Delta R.T. -0.00 min

Lab File: VL036217.D

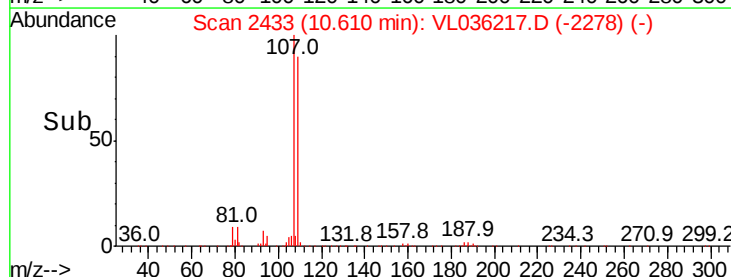
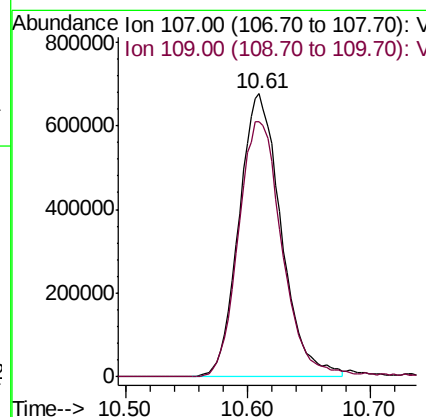
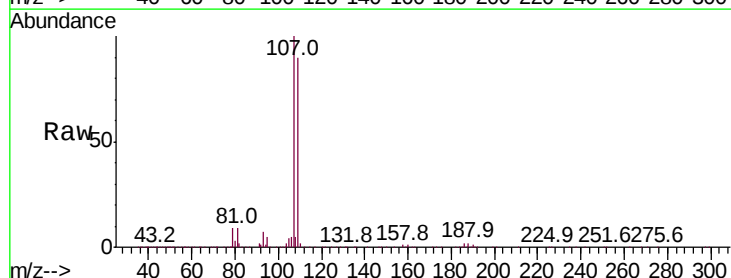
Acq: 13 Jan 2021 7:41

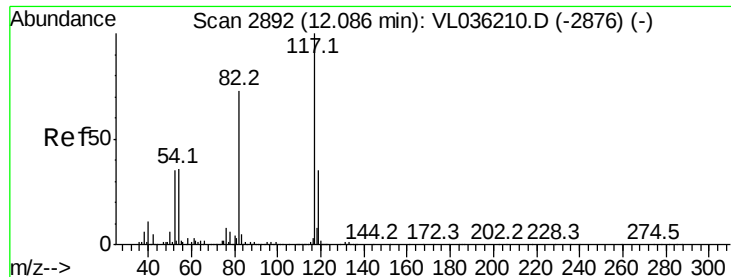
Tgt Ion: 107 Resp: 1613315

Ion Ratio Lower Upper

107 100

109 90.2 74.5 111.7





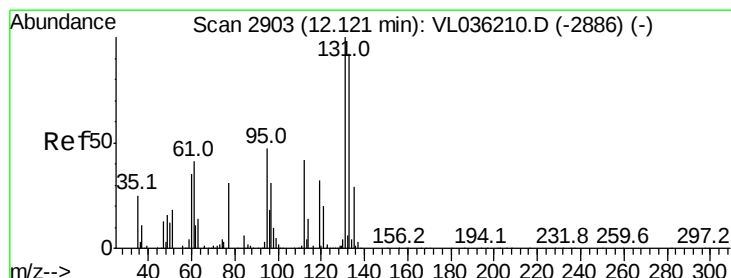
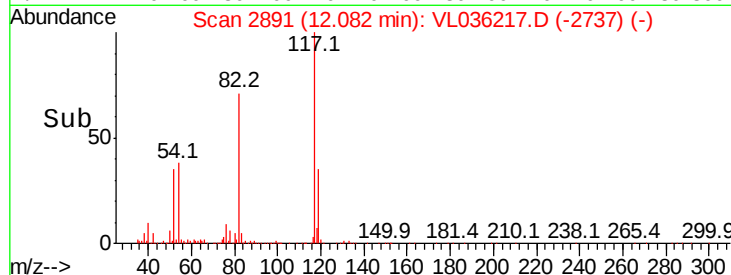
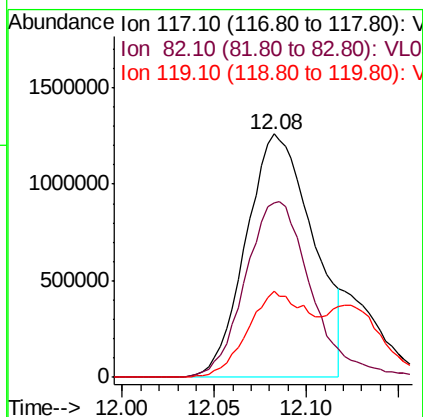
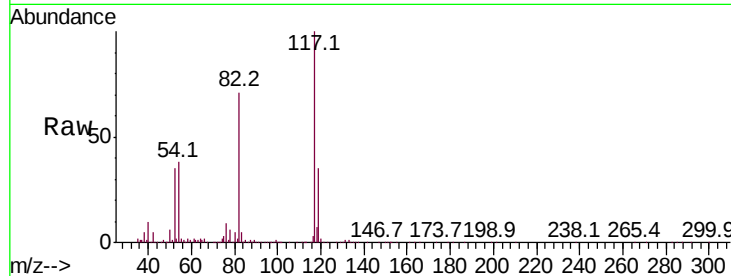
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv m  
RT: 12.08 min Scan# 2891  
Delta R.T. -0.00 min  
Lab File: VL036217.D  
Acq: 13 Jan 2021 7:41

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL011321

Tot Ion:117 Resp: 3189122  
Ion Ratio Lower Upper  
117 100  
82 72.4 59.7 89.5  
119 57.4 28.6 43.0#

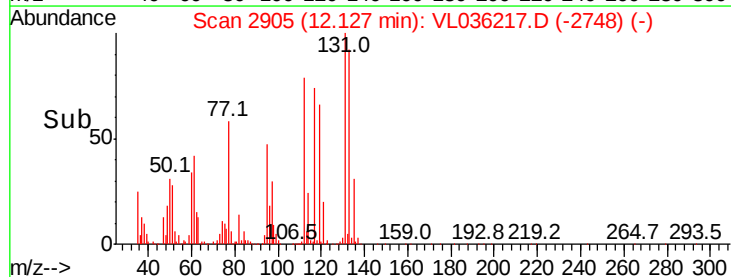
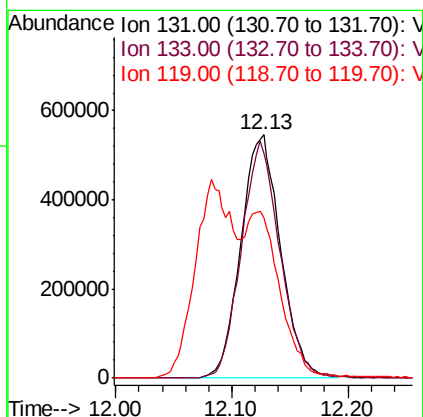
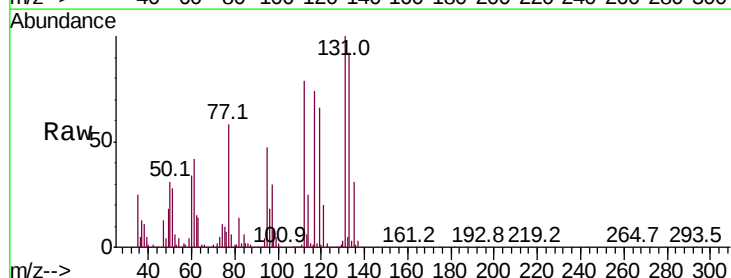
Manual Integrations  
APPROVED

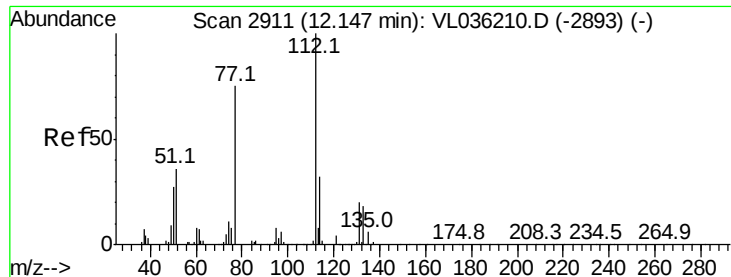
MMDadoda  
1/18/2021 3:49:04 PM



#56  
1,1,1,2-Tetrachloroethane  
Concen: 9.120 ppbv  
RT: 12.13 min Scan# 2905  
Delta R.T. 0.01 min  
Lab File: VL036217.D  
Acq: 13 Jan 2021 7:41

Tgt Ion:131 Resp: 1298001  
Ion Ratio Lower Upper  
131 100  
133 95.0 76.5 114.7  
119 141.1 45.4 68.0#





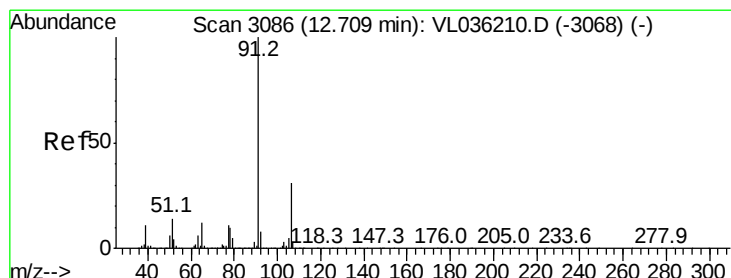
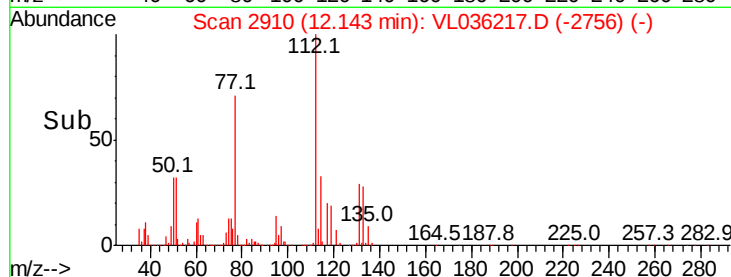
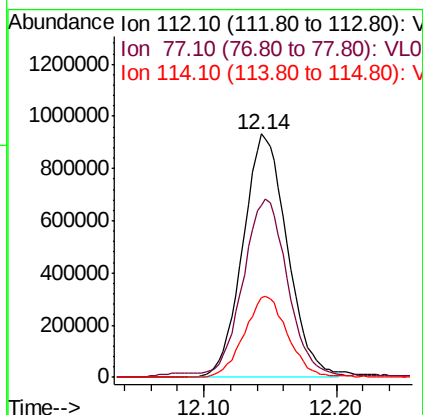
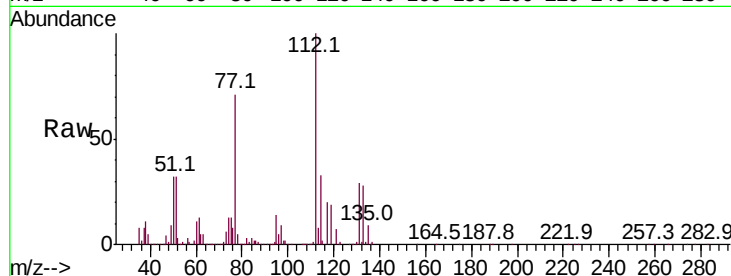
#57  
Chlorobenzene  
Concen: 8.638 ppbv  
RT: 12.14 min Scan# 2910  
Delta R.T. -0.00 min  
Lab File: VL036217.D  
Acq: 13 Jan 2021 7:41

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL011321

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 77      | 69.5  | 59.6  | 89.4  |
| 114     | 32.4  | 28.7  | 35.1  |

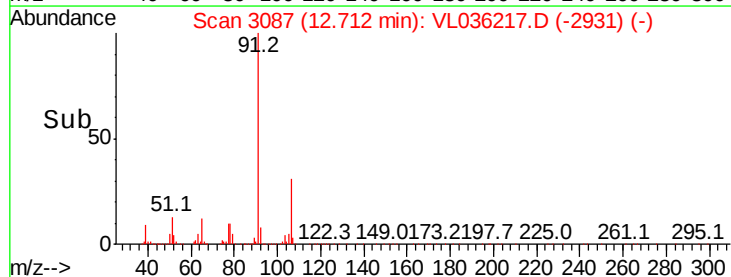
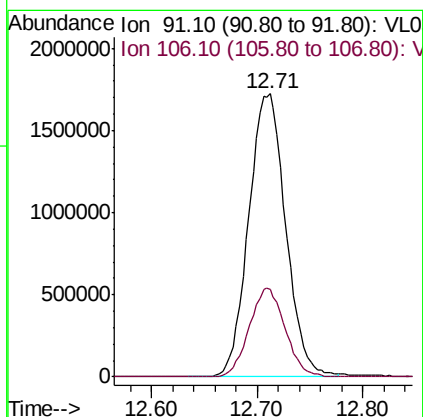
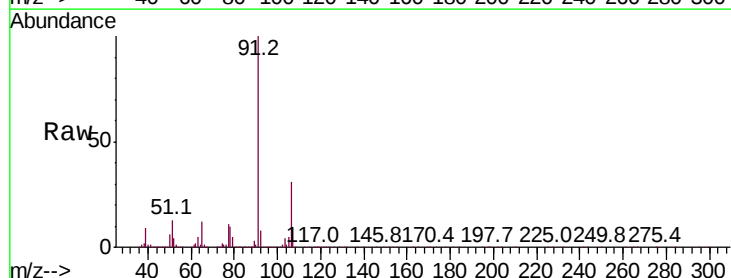
Manual Integrations  
APPROVED

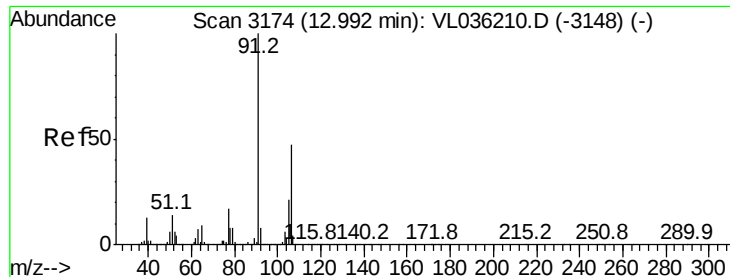
MMDadoda  
1/18/2021 3:49:04 PM



#58  
Ethyl Benzene  
Concen: 8.892 ppbv  
RT: 12.71 min Scan# 3087  
Delta R.T. 0.00 min  
Lab File: VL036217.D  
Acq: 13 Jan 2021 7:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 106     | 30.9  | 24.8  | 37.2  |





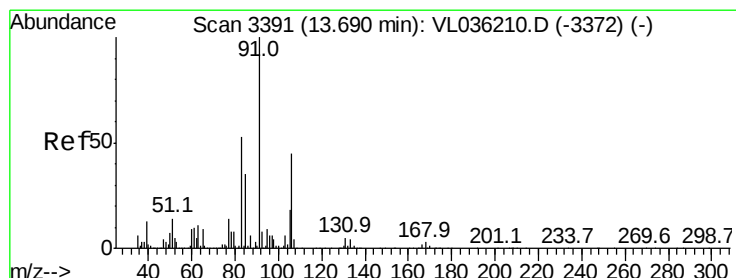
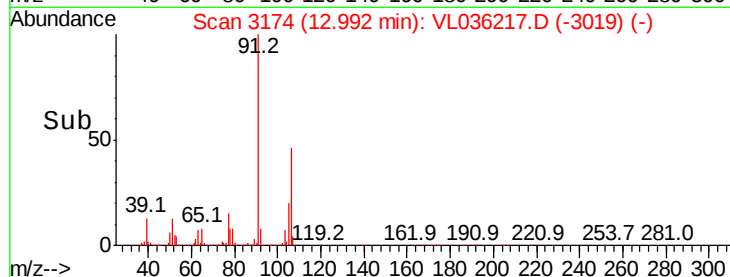
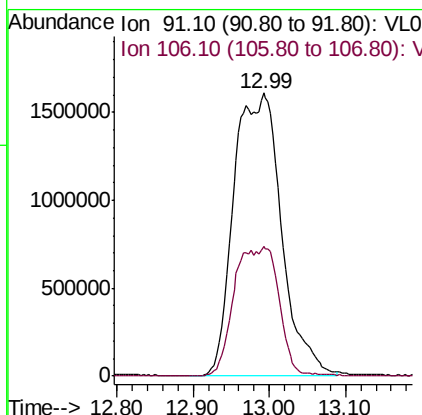
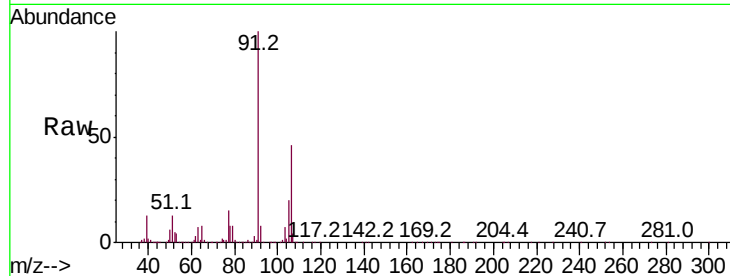
#59  
m/p-Xylene  
Concen: 17.188 ppbv m  
RT: 12.99 min Scan# 3174  
Delta R.T. -0.00 min  
Lab File: VL036217.D  
Acq: 13 Jan 2021 7:41

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL011321

Tot Ion: 91 Resp: 6989464  
Ion Ratio Lower Upper  
91 100  
106 43.0 34.6 51.8

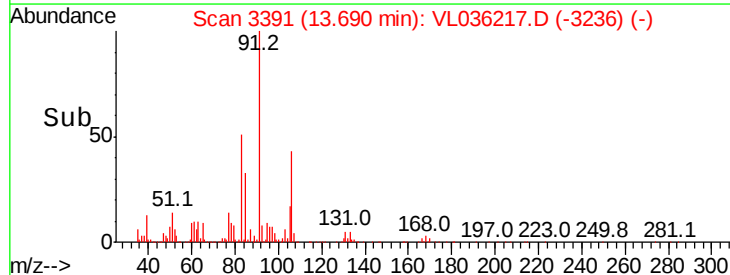
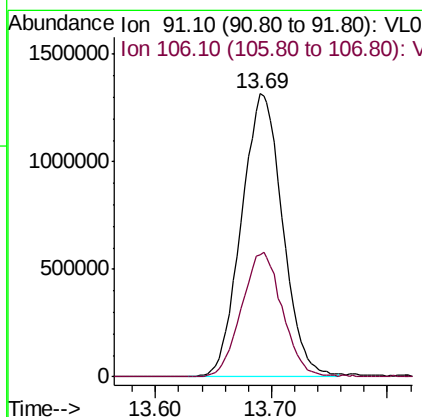
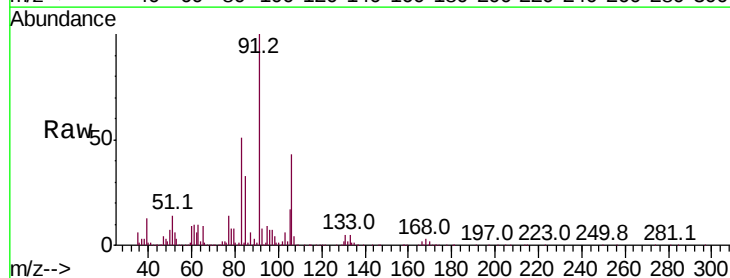
Manual Integrations  
APPROVED

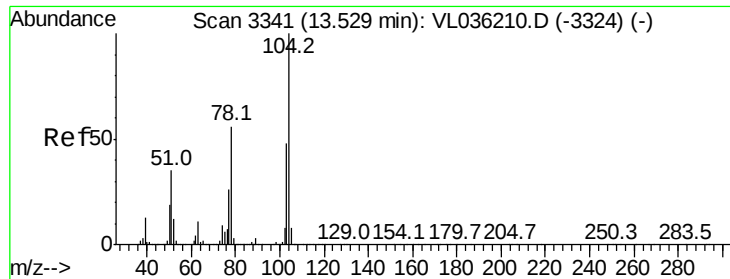
MMDadoda  
1/18/2021 3:49:04 PM



#60  
o-Xylene  
Concen: 8.281 ppbv  
RT: 13.69 min Scan# 3391  
Delta R.T. -0.00 min  
Lab File: VL036217.D  
Acq: 13 Jan 2021 7:41

Tgt Ion: 91 Resp: 3245819  
Ion Ratio Lower Upper  
91 100  
106 44.3 21.9 65.8





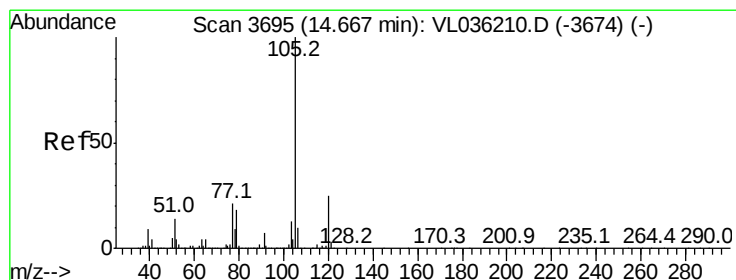
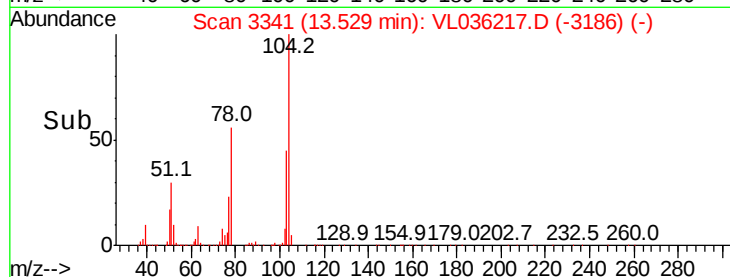
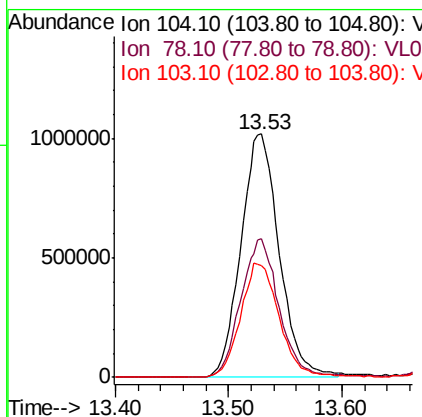
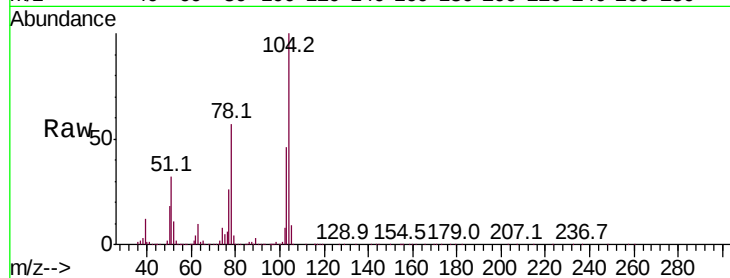
#61  
Stvrene  
Concen: 9.684 ppbv  
RT: 13.53 min Scan# 3341  
Delta R.T. -0.00 min  
Lab File: VL036217.D  
Acq: 13 Jan 2021 7:41

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL011321

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 104     | 100   |       |       |
| 78      | 57.1  | 46.8  | 70.2  |
| 103     | 47.7  | 38.4  | 57.6  |

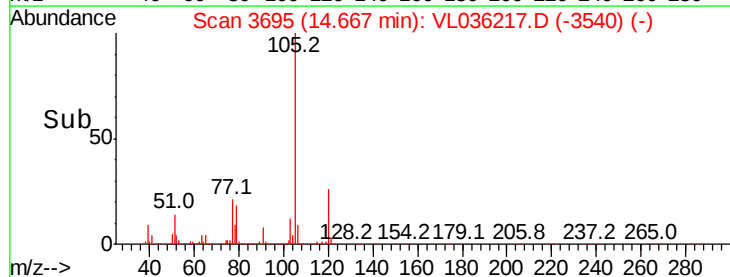
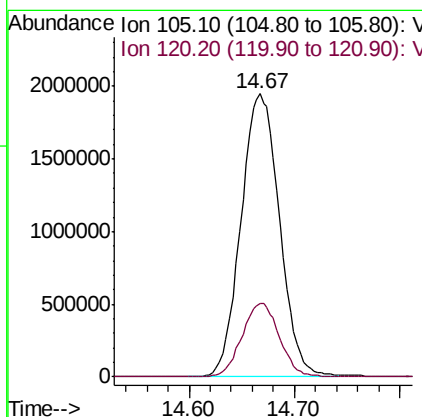
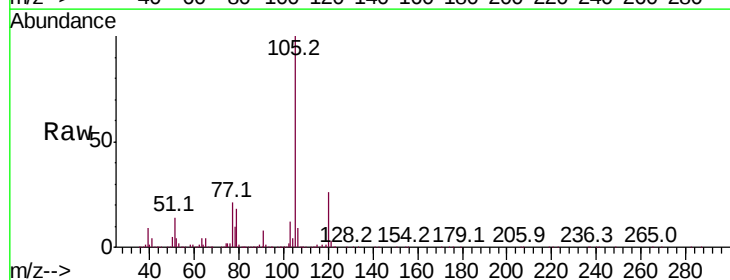
Manual Integrations  
APPROVED

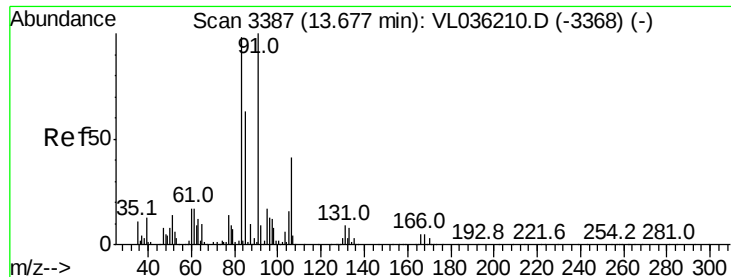
MMDadoda  
1/18/2021 3:49:04 PM



#62  
Isopropylbenzene  
Concen: 8.487 ppbv  
RT: 14.67 min Scan# 3695  
Delta R.T. -0.00 min  
Lab File: VL036217.D  
Acq: 13 Jan 2021 7:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 25.4  | 20.3  | 30.5  |





#63

1,1,2,2-Tetrachloroethane

Concen: 7.867 ppbv

RT: 13.68 min Scan# 3387

Delta R.T. -0.00 min

Lab File: VL036217.D

Acq: 13 Jan 2021 7:41

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL011321

Tot Ion: 83 Resp: 2295995

Ion Ratio Lower Upper

83 100

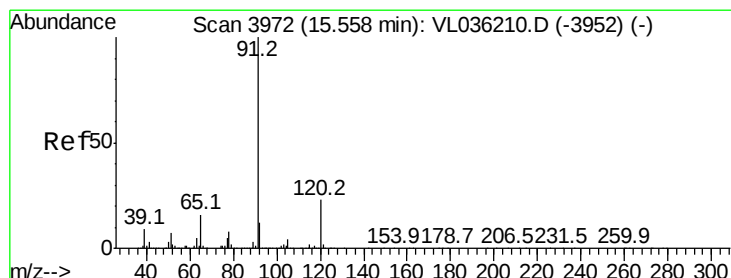
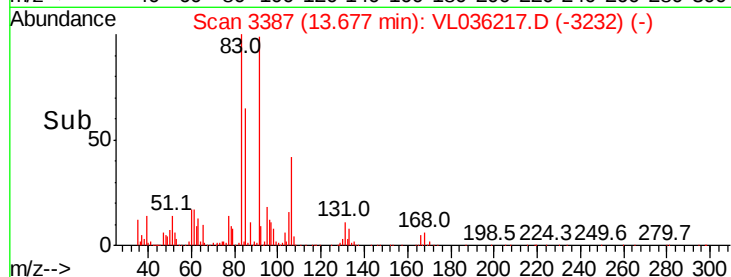
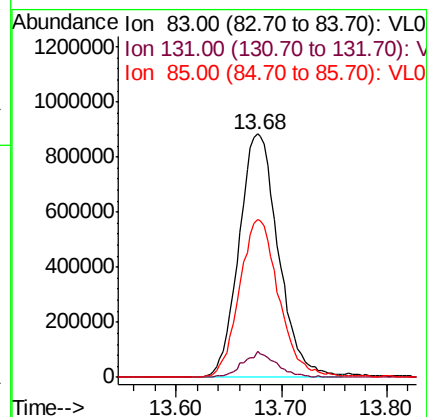
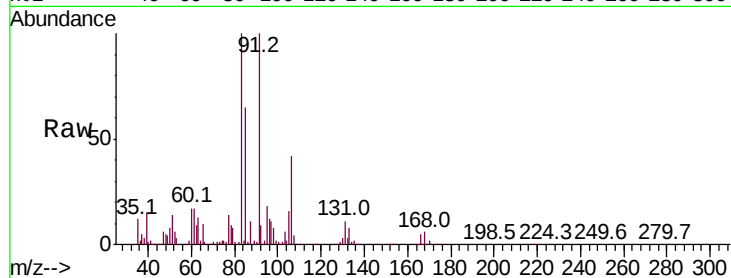
131 9.2 4.5 13.5

85 65.3 33.1 99.3

Manual Integrations  
APPROVED

MMDadoda

1/18/2021 3:49:04 PM



#64

n-propylbenzene

Concen: 8.958 ppbv

RT: 15.56 min Scan# 3973

Delta R.T. 0.00 min

Lab File: VL036217.D

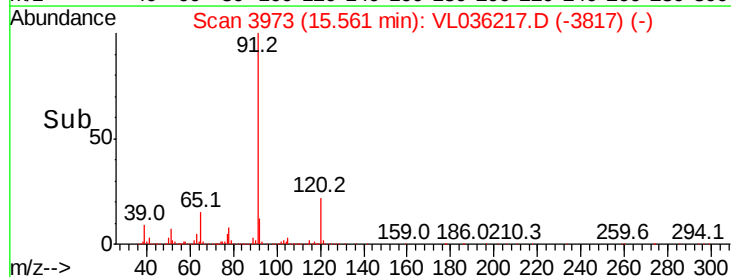
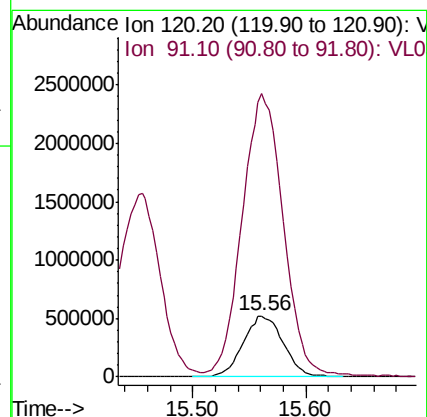
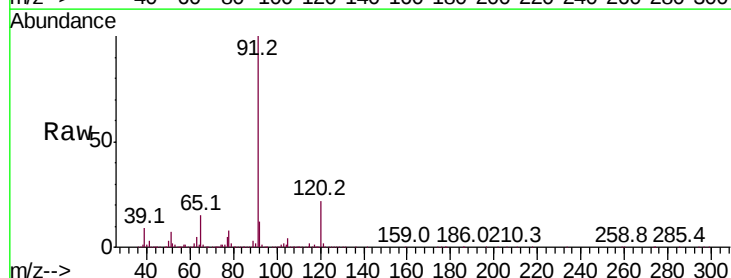
Acq: 13 Jan 2021 7:41

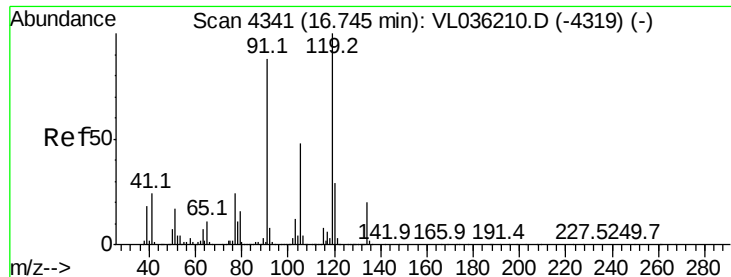
Tgt Ion: 120 Resp: 1282749

Ion Ratio Lower Upper

120 100

91 481.4 391.8 587.6





#65

tert-Butylbenzene

Concen: 8.423 ppbv

RT: 16.75 min Scan# 4342

Delta R.T. 0.00 min

Lab File: VL036217.D

Acq: 13 Jan 2021 7:41

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL011321

Tot Ion:119 Resp: 4159736

Ion Ratio Lower Upper

119 100

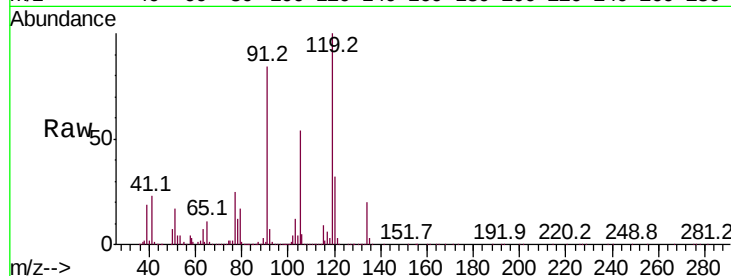
91 87.7 71.0 106.6

134 19.7 15.8 23.6

Manual Integrations  
APPROVED

MMDadoda

1/18/2021 3:49:04 PM



Abundance Ion 119.20 (118.90 to 119.90): V

2000000 Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V

1500000

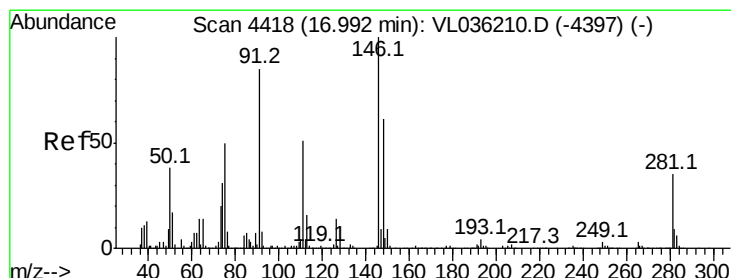
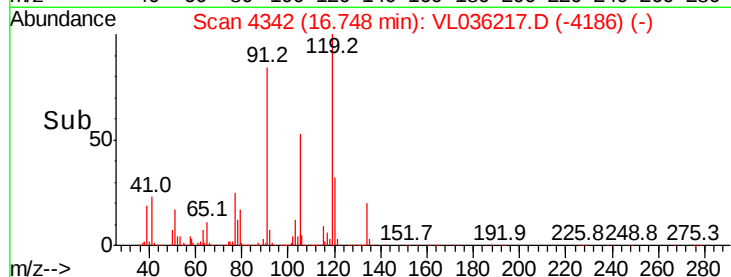
1000000

500000

0

16.70 16.75 16.80

Time-->



#66

Benzyl Chloride

Concen: 11.784 ppbv

RT: 16.99 min Scan# 4417

Delta R.T. -0.00 min

Lab File: VL036217.D

Acq: 13 Jan 2021 7:41

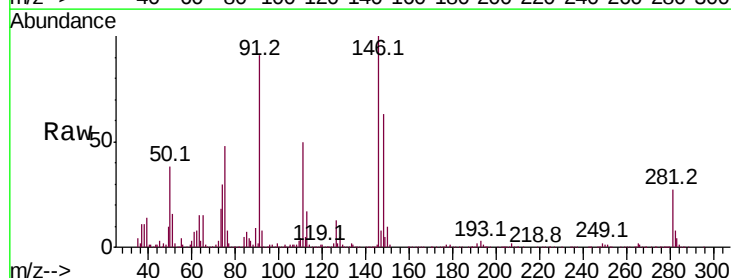
Tgt Ion: 91 Resp: 1486755

Ion Ratio Lower Upper

91 100

126 16.1 12.6 19.0

128 5.0 3.8 5.6



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

800000

600000

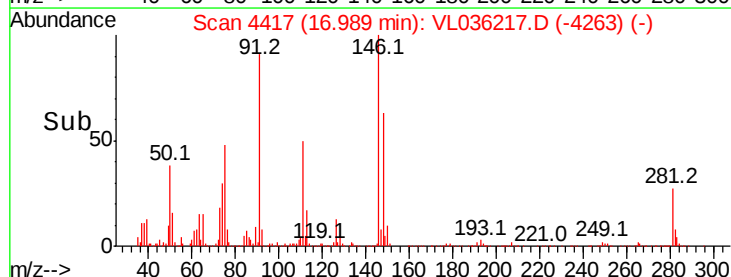
400000

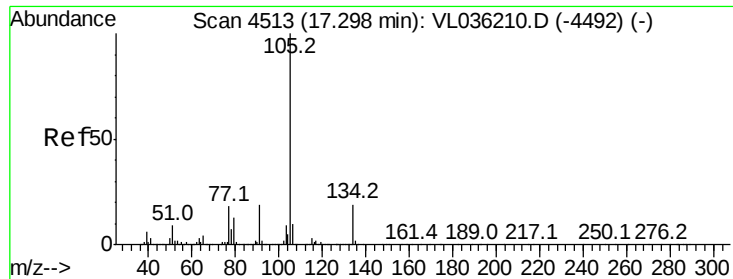
200000

0

16.90 16.99 17.00

Time-->





#67

sec-Butylbenzene

Concen: 8.215 ppbv

RT: 17.30 min Scan# 4513

Delta R.T. -0.00 min

Lab File: VL036217.D

Acq: 13 Jan 2021 7:41

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL011321

Tot Ion:105 Resp: 6021875

Ion Ratio Lower Upper

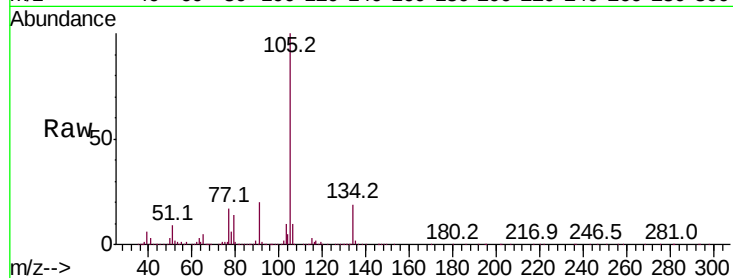
105 100

134 17.7 14.2 21.4

Manual Integrations  
APPROVED

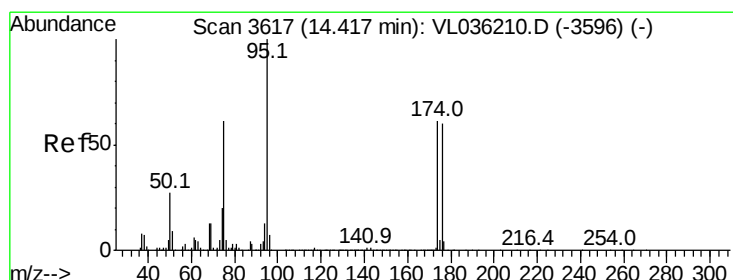
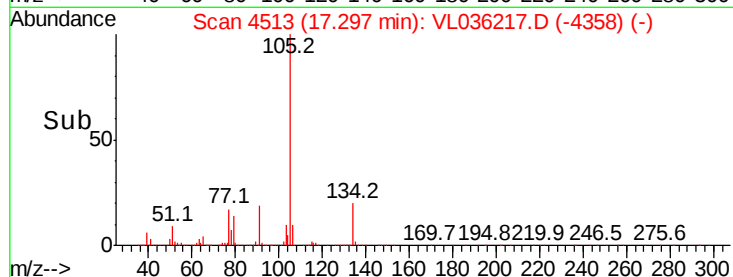
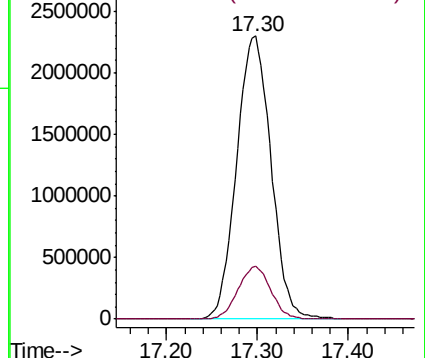
MMDadoda

1/18/2021 3:49:04 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.051 ppbv

RT: 14.41 min Scan# 3616

Delta R.T. -0.00 min

Lab File: VL036217.D

Acq: 13 Jan 2021 7:41

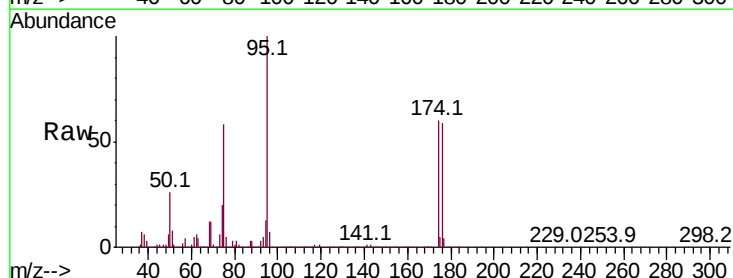
Tgt Ion: 95 Resp: 2653095

Ion Ratio Lower Upper

95 100

174 61.9 49.4 74.0

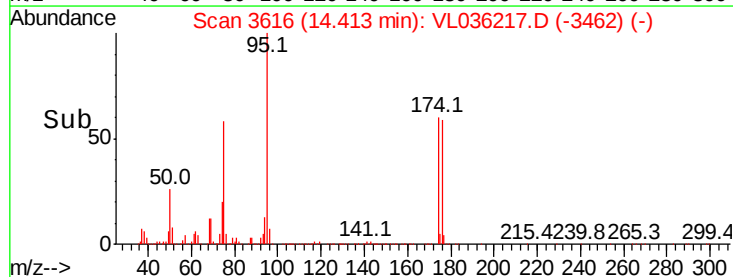
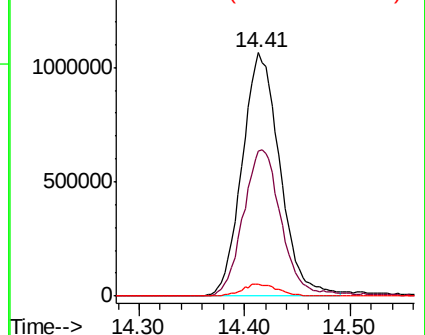
175 4.8 3.8 5.8

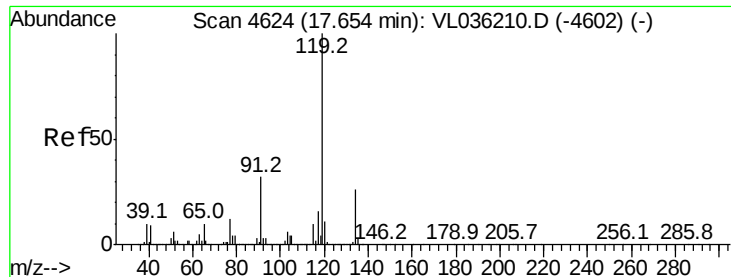


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#69

p-Isopropyltoluene

Concen: 8.447 ppbv

RT: 17.65 min Scan# 4624

Delta R.T. -0.00 min

Lab File: VL036217.D

Acq: 13 Jan 2021 7:41

Instrument :

MSVOA\_L

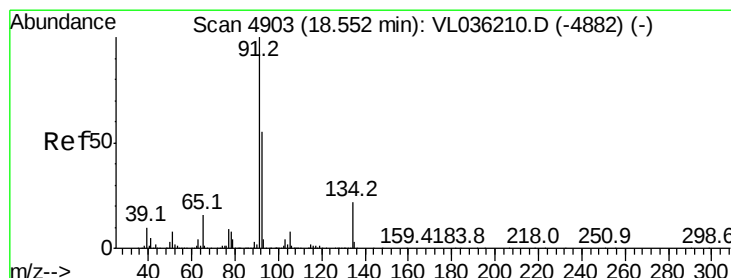
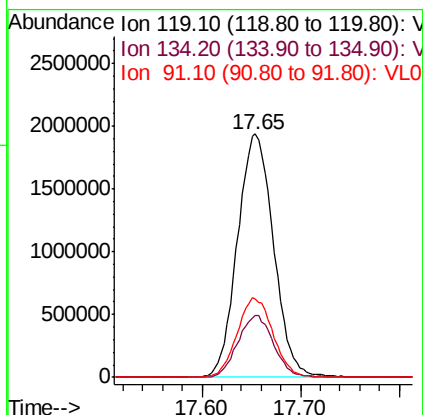
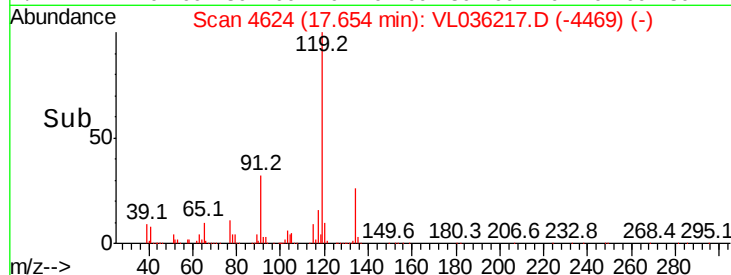
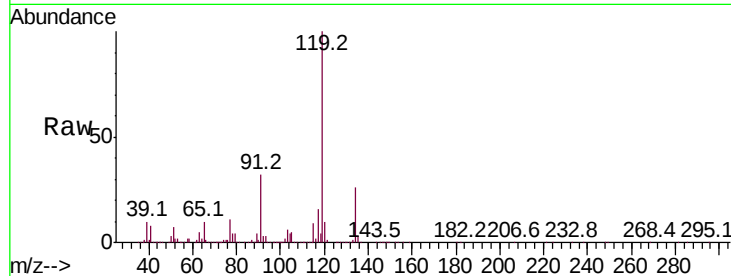
ClientSampleId :

ICVVL011321

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 119   | Resp: | 4910593 |
| Ion      | Ratio | Lower | Upper   |
| 119      | 100   |       |         |
| 134      | 25.1  | 20.2  | 30.4    |
| 91       | 32.7  | 26.0  | 39.0    |

Manual Integrations  
APPROVED

MMDadoda  
1/18/2021 3:49:04 PM



#70

n-Butylbenzene

Concen: 8.466 ppbv

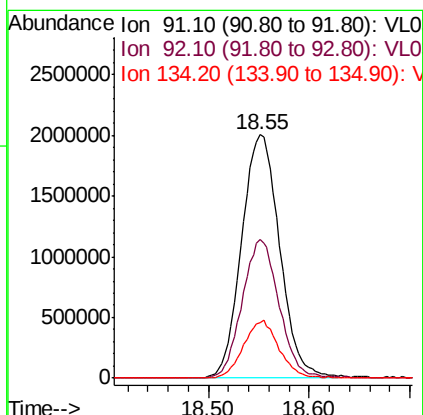
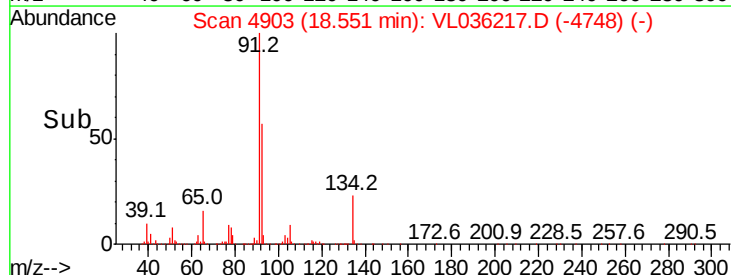
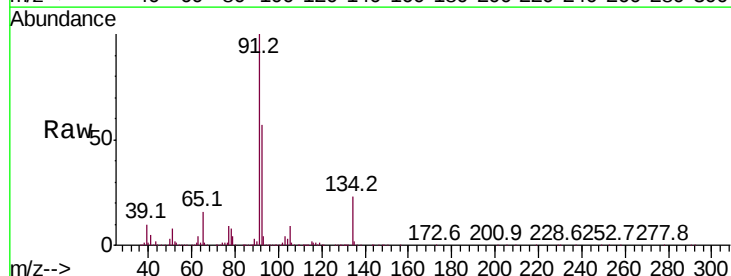
RT: 18.55 min Scan# 4903

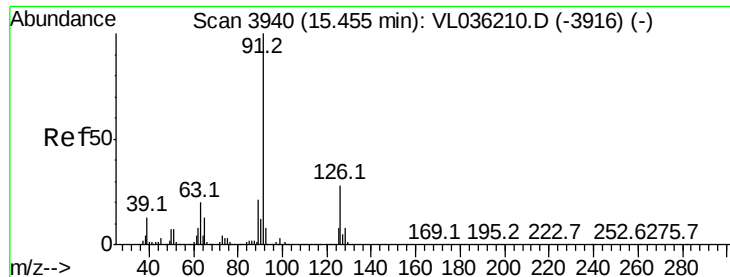
Delta R.T. -0.00 min

Lab File: VL036217.D

Acq: 13 Jan 2021 7:41

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 91    | Resp: | 5244045 |
| Ion      | Ratio | Lower | Upper   |
| 91       | 100   |       |         |
| 92       | 55.5  | 44.0  | 66.0    |
| 134      | 22.1  | 17.0  | 25.4    |





#71

2-Chlorotoluene

Concen: 8.539 ppbv

RT: 15.45 min Scan# 3940

Delta R.T. -0.00 min

Lab File: VL036217.D

Acq: 13 Jan 2021 7:41

Instrument :

MSVOA\_L

ClientSampled :

ICVVL011321

Tot Ion: 91 Resp: 3911500

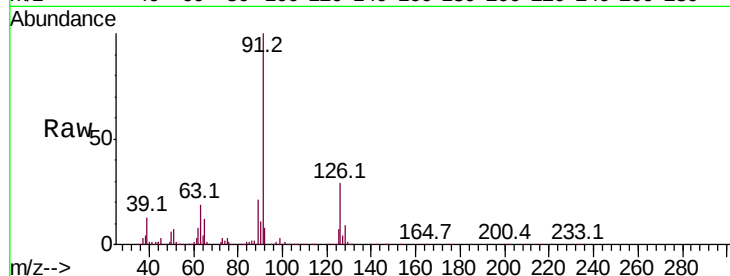
Ion Ratio Lower Upper

91 100

126 29.0 11.5 45.9

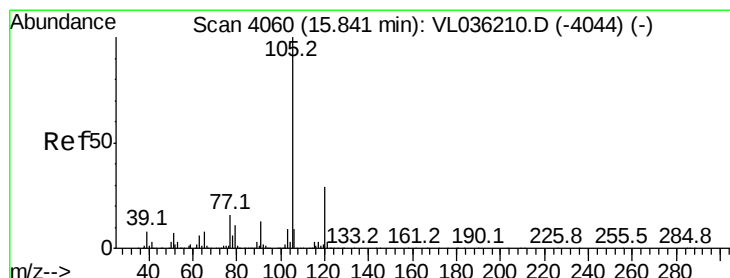
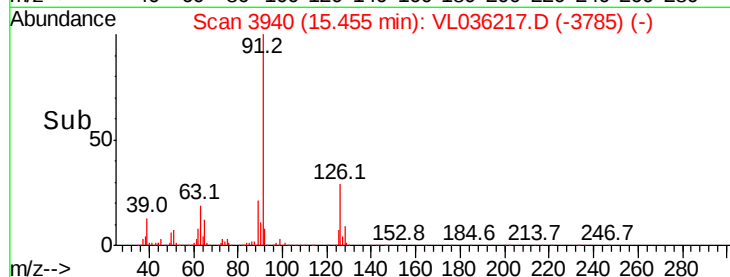
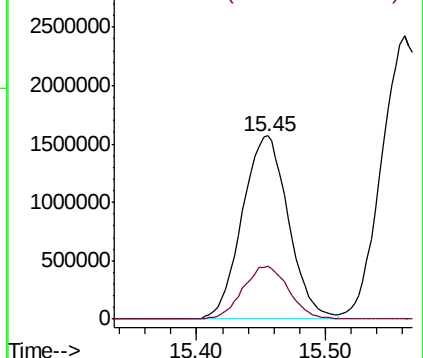
Manual Integrations  
APPROVED

MMDadoda  
1/18/2021 3:49:04 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 8.824 ppbv

RT: 15.84 min Scan# 4061

Delta R.T. 0.00 min

Lab File: VL036217.D

Acq: 13 Jan 2021 7:41

Tgt Ion:105 Resp: 3903046

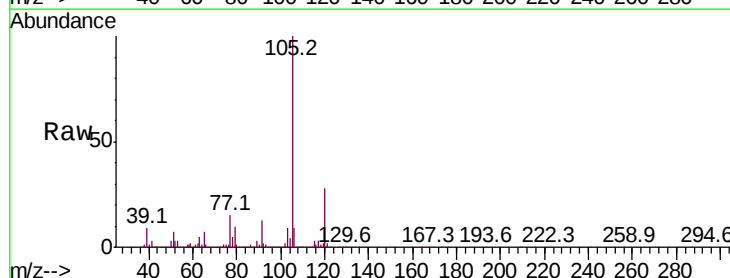
Ion Ratio Lower Upper

105 100

120 28.9 23.7 35.5

91 13.8 11.9 17.9

77 15.1 12.6 18.8

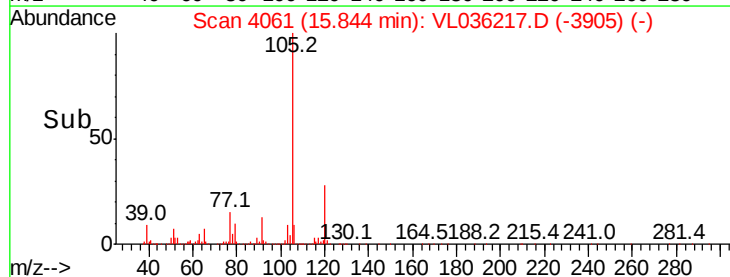
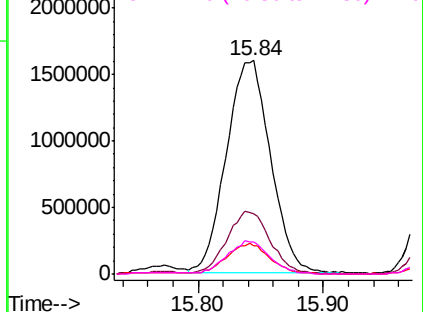


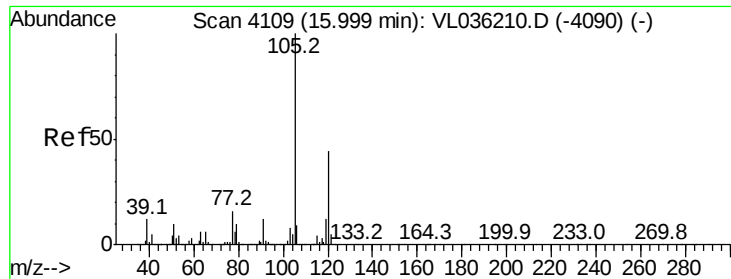
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 8.745 ppbv

RT: 16.00 min Scan# 4109

Delta R.T. -0.00 min

Lab File: VL036217.D

Acq: 13 Jan 2021 7:41

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL011321

Tot Ion:105 Resp: 3687428

Ion Ratio Lower Upper

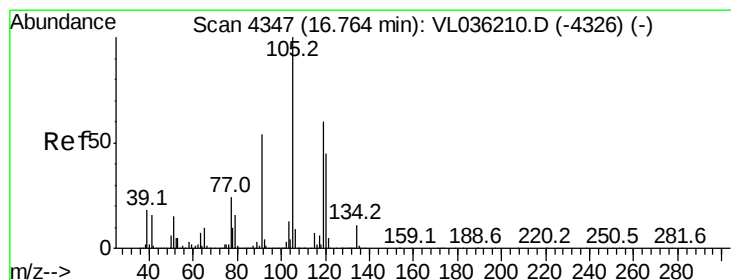
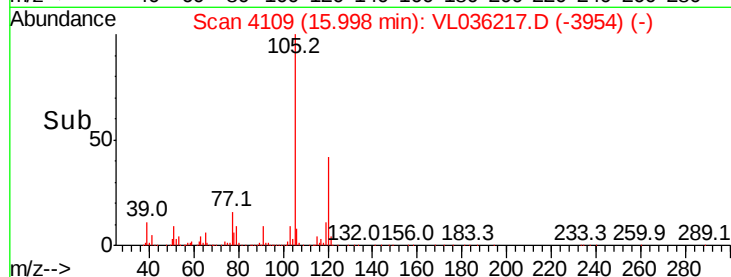
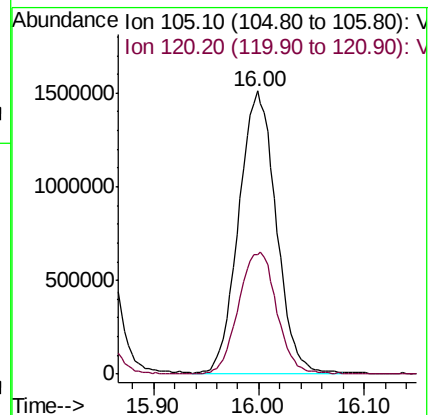
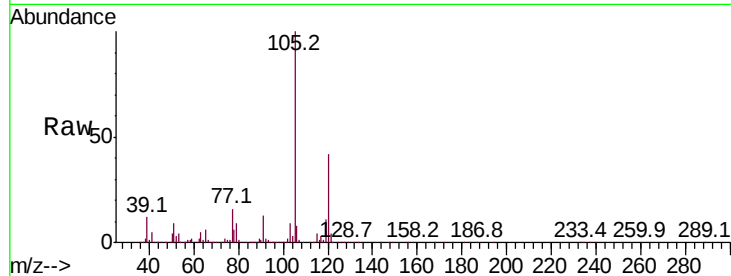
105 100

120 42.4 35.5 53.3

Manual Integrations  
APPROVED

MMDadoda

1/18/2021 3:49:04 PM



#74

1,2,4-Trimethylbenzene

Concen: 8.425 ppbv

RT: 16.77 min Scan# 4348

Delta R.T. 0.00 min

Lab File: VL036217.D

Acq: 13 Jan 2021 7:41

Tgt Ion:105 Resp: 3644115

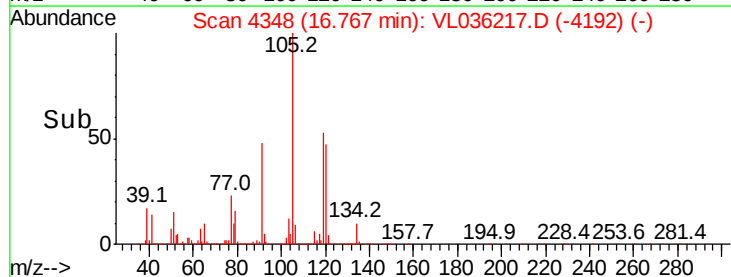
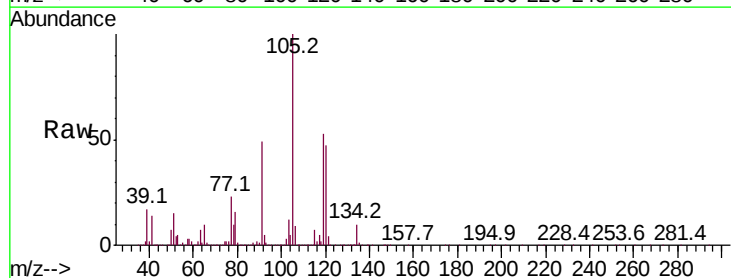
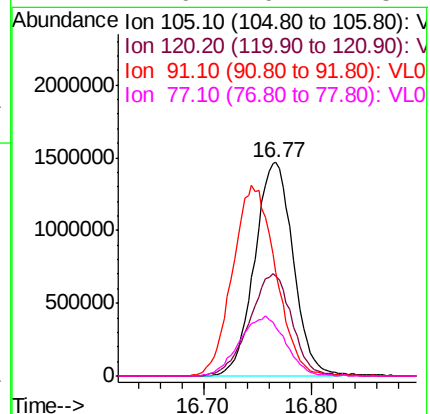
Ion Ratio Lower Upper

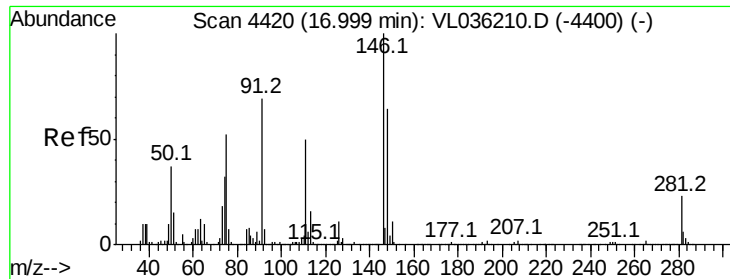
105 100

120 46.6 36.2 54.2

91 48.2 43.3 64.9

77 22.9 19.1 28.7





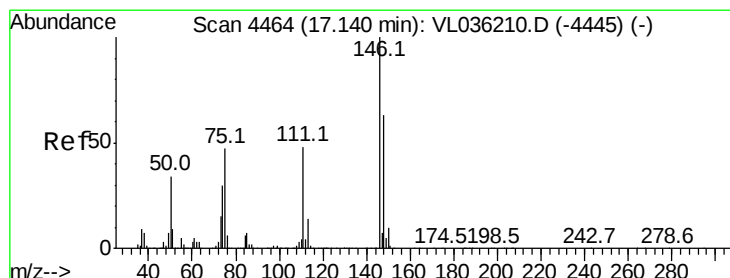
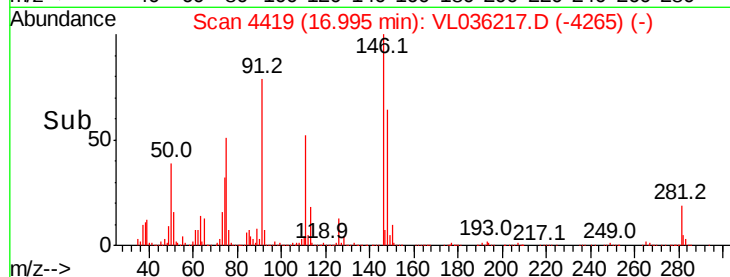
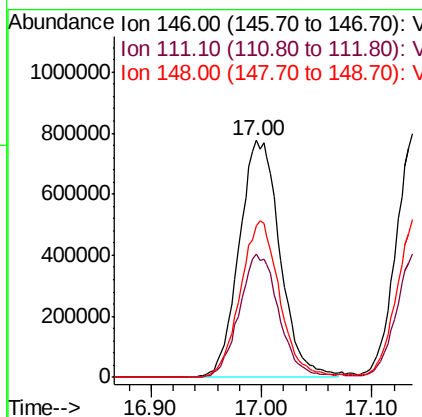
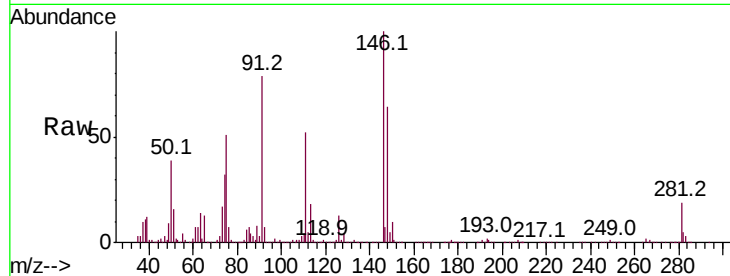
#75  
 1,3-Dichlorobenzene  
 Concen: 8.594 ppbv  
 RT: 17.00 min Scan# 4419  
 Delta R.T. -0.00 min  
 Lab File: VL036217.D  
 Acq: 13 Jan 2021 7:41

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL011321

Tot Ion:146 Resp: 1993606  
 Ion Ratio Lower Upper  
 146 100  
 111 50.5 25.5 76.5  
 148 63.4 32.4 97.2

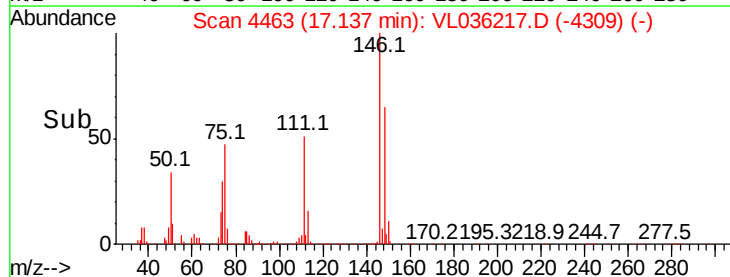
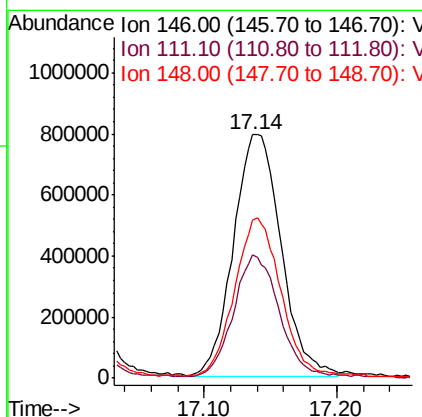
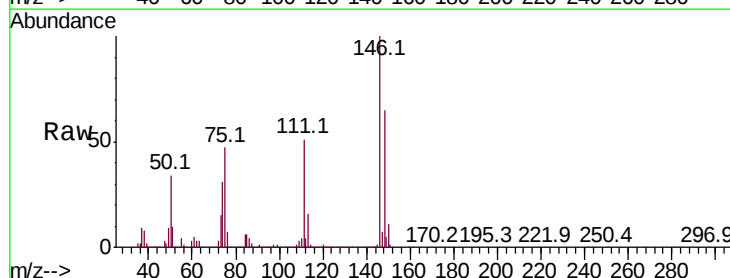
Manual Integrations  
 APPROVED

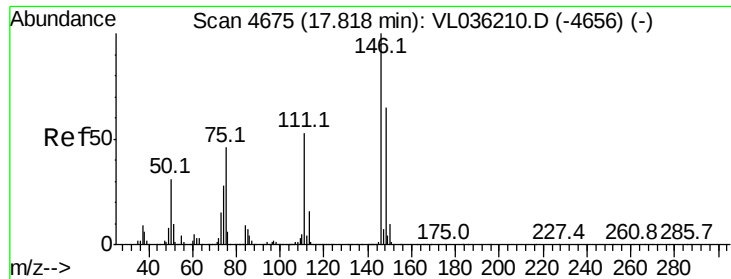
MMDadoda  
 1/18/2021 3:49:04 PM



#76  
 1,4-Dichlorobenzene  
 Concen: 8.588 ppbv  
 RT: 17.14 min Scan# 4463  
 Delta R.T. -0.00 min  
 Lab File: VL036217.D  
 Acq: 13 Jan 2021 7:41

Tgt Ion:146 Resp: 1968086  
 Ion Ratio Lower Upper  
 146 100  
 111 49.9 25.4 76.0  
 148 66.3 33.3 99.9





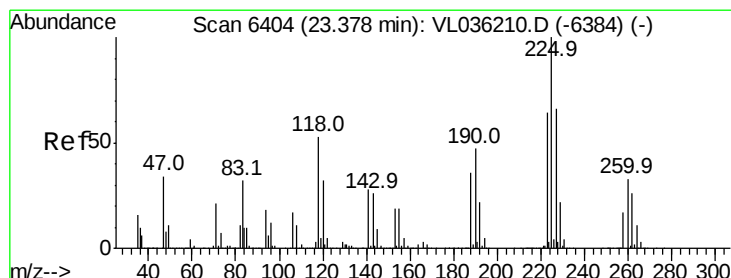
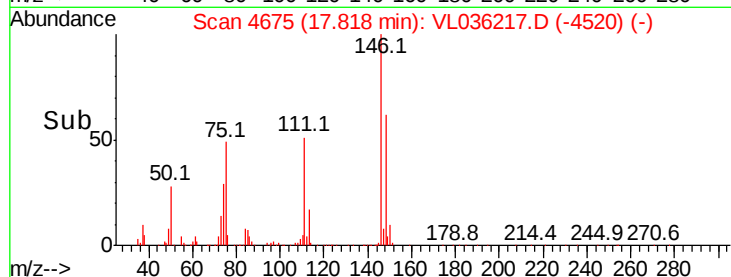
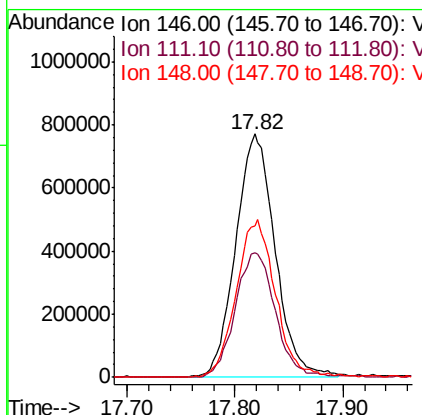
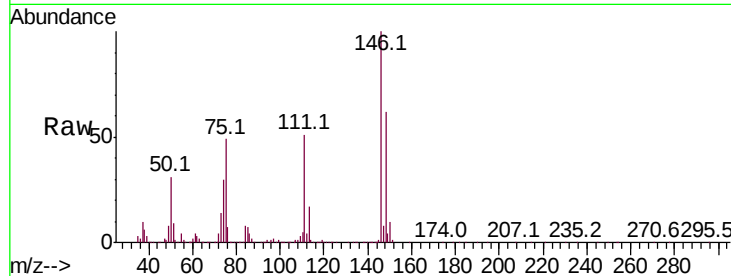
#77  
 1,2-Dichlorobenzene  
 Concen: 8.594 ppbv  
 RT: 17.82 min Scan# 4675  
 Delta R.T. -0.00 min  
 Lab File: VL036217.D  
 Acq: 13 Jan 2021 7:41

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL011321

Tot Ion:146 Resp: 1947265  
 Ion Ratio Lower Upper  
 146 100  
 111 52.5 26.5 79.4  
 148 65.8 32.8 98.4

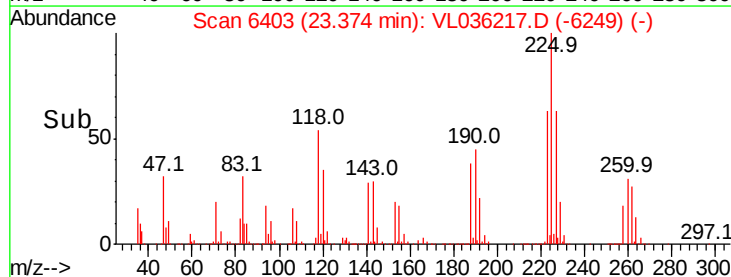
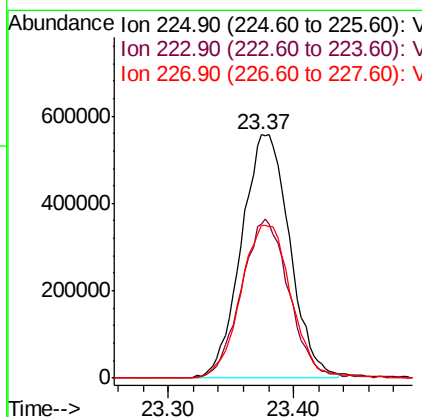
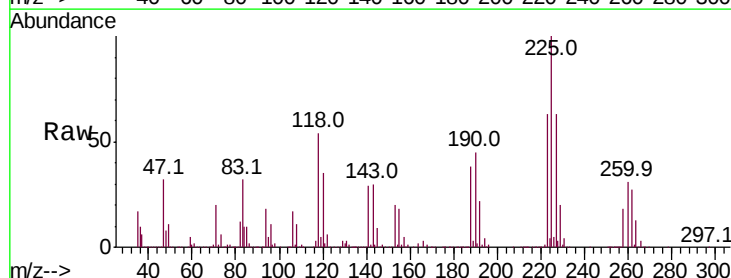
Manual Integrations  
 APPROVED

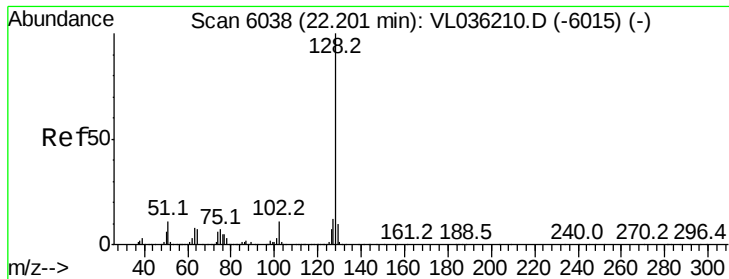
MMDadoda  
 1/18/2021 3:49:04 PM



#78  
 Hexachloro-1,3-Butadiene  
 Concen: 8.199 ppbv  
 RT: 23.37 min Scan# 6403  
 Delta R.T. -0.00 min  
 Lab File: VL036217.D  
 Acq: 13 Jan 2021 7:41

Tgt Ion:225 Resp: 1485789  
 Ion Ratio Lower Upper  
 225 100  
 223 65.1 50.5 75.7  
 227 65.8 51.7 77.5





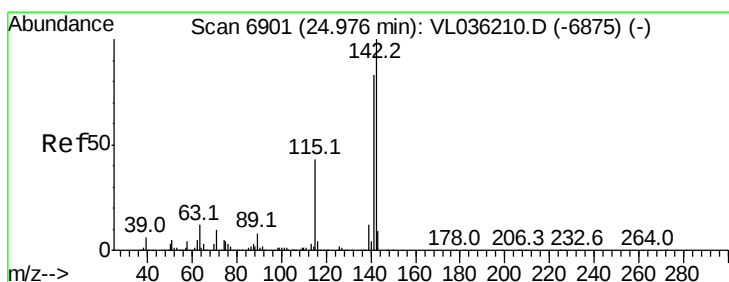
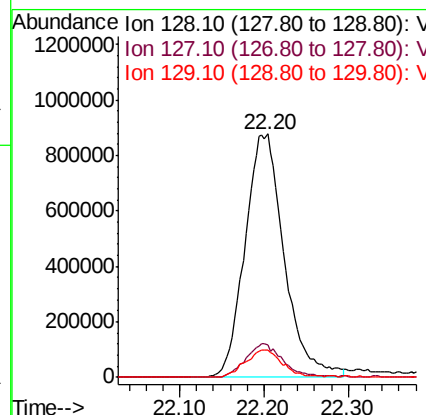
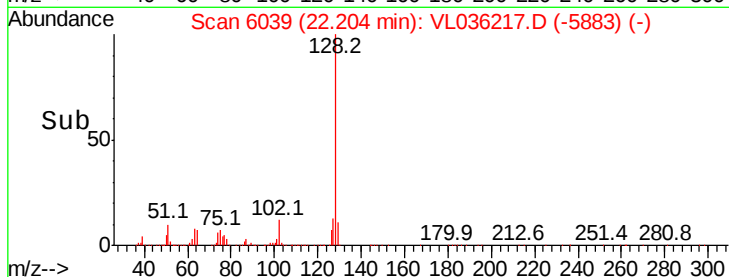
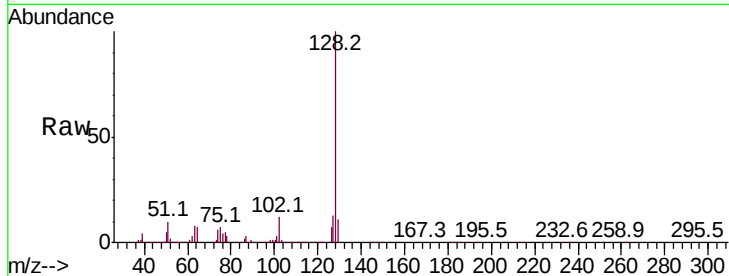
#79  
Naphthalene  
Concen: 11.247 ppbv m  
RT: 22.20 min Scan# 6039  
Delta R.T. 0.00 min  
Lab File: VL036217.D  
Acq: 13 Jan 2021 7:41

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL011321

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 13.1  | 9.9   | 14.9  |
| 129     | 11.1  | 8.4   | 12.6  |

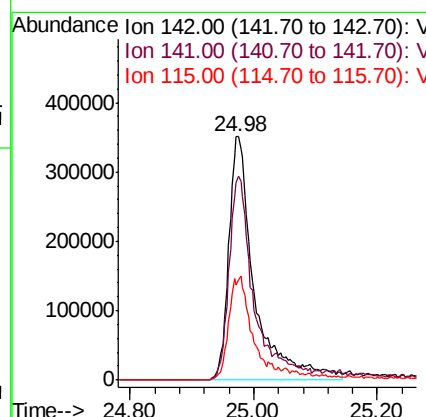
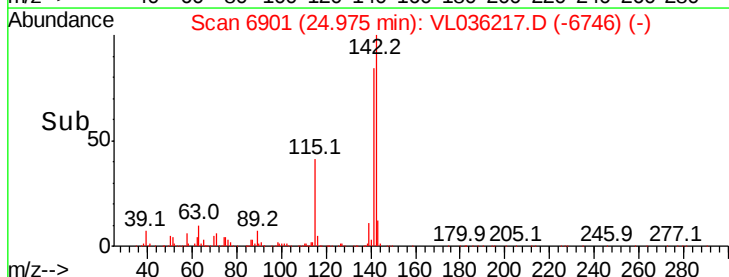
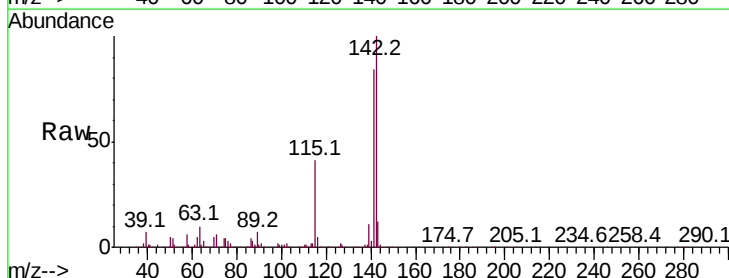
Manual Integrations  
APPROVED

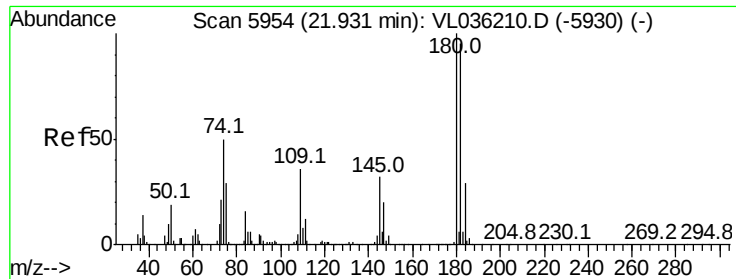
MMDadoda  
1/18/2021 3:49:04 PM



#80  
Naphthalene, 2-methyl-  
Concen: 18.796 ppbv  
RT: 24.98 min Scan# 6901  
Delta R.T. -0.00 min  
Lab File: VL036217.D  
Acq: 13 Jan 2021 7:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 85.2  | 68.6  | 102.8 |
| 115     | 43.4  | 32.9  | 49.3  |





#81  
 1,2,4-Trichlorobenzene  
 Concen: 9.775 ppbv  
 RT: 21.92 min Scan# 5952  
 Delta R.T. -0.01 min  
 Lab File: VL036217.D  
 Acq: 13 Jan 2021 7:41

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL011321

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 101.0 | 79.9  | 119.9 |
| 184     | 32.1  | 25.6  | 38.4  |

Manual Integrations  
 APPROVED

MMDadoda  
 1/18/2021 3:49:04 PM

