

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091620\  
 Data File : VL035629.D  
 Acq On : 16 Sep 2020 14:28  
 Operator : SY/AP  
 Sample : VL0916ABS01  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0916ABS01

Manual Integrations  
 APPROVED

MMDadoda  
 9/17/2020 1:52:23 PM

Quant Time: Sep 17 07:18:54 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Sep 14 2020  
 QLast Update : Mon Sep 14 15:19:50 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.66  | 49   | 1094229  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.18  | 114  | 4521756  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.09 | 117  | 4722184m | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.43  | 95    | 3370151  | 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   | 1627289  | 8.581  | ppbv  | 98     |
| 3) Chlorodifluoromethane       | 2.98 | 51   | 1219723  | 10.079 | ppbv  | 99     |
| 4) Chloromethane               | 3.13 | 50   | 657763   | 10.145 | ppbv  | 100    |
| 5) Vinyl Chloride              | 3.25 | 62   | 785877   | 9.831  | ppbv  | 100    |
| 6) Bromomethane                | 3.46 | 94   | 680576   | 10.136 | ppbv  | 98     |
| 7) Chloroethane                | 3.55 | 64   | 295601   | 10.460 | ppbv  | 97     |
| 8) Dichlorotetrafluoroethane   | 3.18 | 85   | 2246943  | 9.784  | ppbv  | 95     |
| 9) Propene                     | 3.00 | 41   | 462754   | 9.919  | ppbv  | 99     |
| 10) Heptane                    | 8.12 | 43   | 1335361  | 10.656 | ppbv  | 100    |
| 11) Trichlorofluoromethane     | 3.94 | 101  | 2706216  | 9.786  | ppbv  | 99     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.48 | 101  | 2059368  | 9.867  | ppbv  | 94     |
| 13) Ethanol                    | 3.59 | 45   | 105178   | 9.092  | ppbv  | 96     |
| 14) Bromoethene                | 3.73 | 108  | 926527   | 10.313 | ppbv  | 99     |
| 15) Acetone                    | 3.84 | 43   | 1085596  | 8.995  | ppbv  | 100    |
| 16) 1,3-Butadiene              | 3.32 | 39   | 480990   | 10.706 | ppbv  | 98     |
| 17) tert-Butyl alcohol         | 4.29 | 59   | 1385306  | 9.430  | ppbv  | 100    |
| 18) 1,1-Dichloroethene         | 4.28 | 96   | 962126   | 10.468 | ppbv  | 98     |
| 19) Isopropyl Alcohol          | 3.96 | 45   | 677979   | 9.417  | ppbv  | 100    |
| 20) Methylene Chloride         | 4.34 | 84   | 855907   | 9.522  | ppbv  | 97     |
| 21) Allyl Chloride             | 4.40 | 41   | 642918   | 11.371 | ppbv  | 98     |
| 22) trans-1,2-Dichloroethene   | 4.88 | 96   | 1008123  | 10.303 | ppbv  | 97     |
| 23) Vinyl Acetate              | 5.07 | 43   | 1681058  | 10.853 | ppbv  | 99     |
| 24) 1,1-Dichloroethane         | 5.01 | 63   | 1641402  | 10.297 | ppbv  | 99     |
| 25) Ethyl Acetate              | 5.67 | 43   | 2205738  | 10.346 | ppbv  | 100    |
| 26) Hexane                     | 5.68 | 57   | 1272728  | 10.536 | ppbv  | 98     |
| 27) Carbon Disulfide           | 4.54 | 76   | 2074683  | 11.968 | ppbv  | 100    |
| 28) Methyl tert-Butyl Ether    | 5.03 | 73   | 2226321  | 10.574 | ppbv  | 99     |
| 29) Chloroform                 | 5.75 | 83   | 2524945  | 10.259 | ppbv  | 100    |
| 30) Cyclohexane                | 7.13 | 84   | 1398543  | 10.807 | ppbv  | 98     |
| 31) cis-1,2-Dichloroethene     | 5.54 | 61   | 1338797  | 10.802 | ppbv  | 97     |
| 32) 1,1,1-Trichloroethane      | 6.51 | 97   | 2491995  | 10.437 | ppbv  | 99     |
| 34) 2-Butanone                 | 5.24 | 43   | 1508855  | 11.244 | ppbv  | 99     |
| 35) Carbon Tetrachloride       | 7.01 | 117  | 2584256  | 11.371 | ppbv  | 100    |
| 36) Benzene                    | 6.89 | 78   | 3205181  | 10.950 | ppbv  | 99     |
| 37) 1,2-Dichloroethane         | 6.30 | 62   | 1557320  | 11.160 | ppbv  | 99     |
| 38) Trichloroethene            | 7.83 | 130  | 1642586  | 9.661  | ppbv  | 95     |
| 39) 1,2-Dichloropropane        | 7.61 | 63   | 1086106  | 10.984 | ppbv  | 98     |
| 40) 1,4-Dioxane                | 7.83 | 88   | 536396   | 10.860 | ppbv  | 80     |
| 41) Tetrahydrofuran            | 6.04 | 42   | 843249   | 11.850 | ppbv  | 99     |
| 42) Bromodichloromethane       | 7.79 | 83   | 2669695  | 11.830 | ppbv  | 99     |
| 43) Methyl Methacrylate        | 8.01 | 69   | 1349173  | 11.921 | ppbv  | 98     |

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 Data File : VL035629.D  
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 Operator : SY/AP  
 Sample : VL0916ABS01  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0916ABS01

Manual Integrations  
 APPROVED

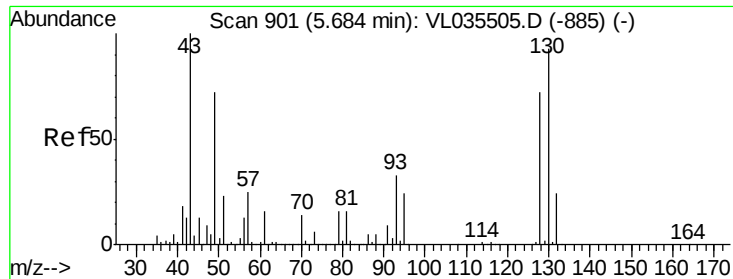
MMDadoda  
 9/17/2020 1:52:23 PM

Quant Time: Sep 17 07:18:54 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Sep 14 2020  
 QLast Update : Mon Sep 14 15:19:50 2020  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.87  | 57   | 4179664  | 10.853 | ppbv  | 99       |
| 45) t-1,3-Dichloropropene     | 9.28  | 75   | 1509998  | 13.170 | ppbv  | 99       |
| 46) cis-1,3-Dichloropropene   | 8.71  | 75   | 1792265  | 12.590 | ppbv  | 98       |
| 47) 1,1,2-Trichloroethane     | 9.48  | 97   | 1591814  | 10.910 | ppbv  | 98       |
| 48) Dibromochloromethane      | 10.31 | 129  | 2707520  | 11.791 | ppbv  | 100      |
| 49) Bromoform                 | 13.05 | 173  | 2484593  | 11.939 | ppbv  | 100      |
| 50) 4-Methyl-2-Pentanone      | 8.74  | 43   | 2261214  | 11.637 | ppbv  | 100      |
| 51) 2-Hexanone                | 10.14 | 43   | 1952625  | 12.250 | ppbv  | 99       |
| 52) Tetrachloroethene         | 11.23 | 164  | 1609338  | 9.412  | ppbv  | 97       |
| 53) Toluene                   | 9.81  | 91   | 4067784  | 11.051 | ppbv  | 100      |
| 54) 1,2-Dibromoethane         | 10.62 | 107  | 2510719  | 10.891 | ppbv  | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 12.13 | 131  | 2106656  | 10.964 | ppbv  | 96       |
| 57) Chlorobenzene             | 12.15 | 112  | 3461350  | 9.960  | ppbv  | 97       |
| 58) Ethyl Benzene             | 12.72 | 91   | 5313228  | 10.911 | ppbv  | 100      |
| 59) m/p-Xylene                | 13.01 | 91   | 9048468m | 22.238 | ppbv  |          |
| 60) o-Xylene                  | 13.70 | 91   | 4442234  | 10.840 | ppbv  | 99       |
| 61) Styrene                   | 13.54 | 104  | 3571200  | 11.394 | ppbv  | 99       |
| 62) Isopropylbenzene          | 14.68 | 105  | 6711117  | 10.195 | ppbv  | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.69 | 83   | 3240727  | 10.200 | ppbv  | 99       |
| 64) n-propylbenzene           | 15.57 | 120  | 2126197  | 10.584 | ppbv  | 94       |
| 65) tert-Butylbenzene         | 16.76 | 119  | 6339546  | 10.360 | ppbv  | 97       |
| 66) Benzyl Chloride           | 17.00 | 91   | 2262292  | 14.875 | ppbv  | 98       |
| 67) sec-Butylbenzene          | 17.31 | 105  | 8357964  | 10.251 | ppbv  | 98       |
| 69) p-Isopropyltoluene        | 17.67 | 119  | 7257977  | 10.149 | ppbv  | 98       |
| 70) n-Butylbenzene            | 18.56 | 91   | 7227228  | 10.491 | ppbv  | 99       |
| 71) 2-Chlorotoluene           | 15.46 | 91   | 5204928  | 10.857 | ppbv  | 97       |
| 72) 4-Ethyltoluene            | 15.85 | 105  | 5573459  | 10.698 | ppbv  | 99       |
| 73) 1,3,5-Trimethylbenzene    | 16.01 | 105  | 5197659  | 10.786 | ppbv  | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.78 | 105  | 5449439  | 10.298 | ppbv  | 97       |
| 75) 1,3-Dichlorobenzene       | 17.01 | 146  | 3771000  | 9.620  | ppbv  | 99       |
| 76) 1,4-Dichlorobenzene       | 17.15 | 146  | 3812909  | 9.863  | ppbv  | 98       |
| 77) 1,2-Dichlorobenzene       | 17.83 | 146  | 3740766  | 9.850  | ppbv  | 98       |
| 78) Hexachloro-1,3-Butadiene  | 23.39 | 225  | 2290118  | 9.445  | ppbv  | 100      |
| 79) Naphthalene               | 22.22 | 128  | 6376327  | 10.859 | ppbv  | 99       |
| 80) Naphthalene, 2-methyl-    | 24.99 | 142  | 2242430  | 11.189 | ppbv  | 99       |
| 81) 1,2,4-Trichlorobenzene    | 21.95 | 180  | 3488754  | 9.921  | ppbv  | 100      |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.00 min

Lab File: VL035629.D

Acq: 16 Sep 2020 14:28

Instrument :

MSVOA\_L

ClientSampleId :

VL0916ABS01

Tot Ion: 49 Resp: 1094229

Ion Ratio Lower Upper

49 100

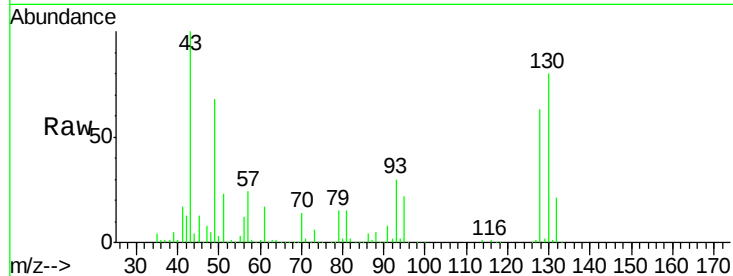
128 91.5 50.0 150.1

130 116.8 64.4 193.2

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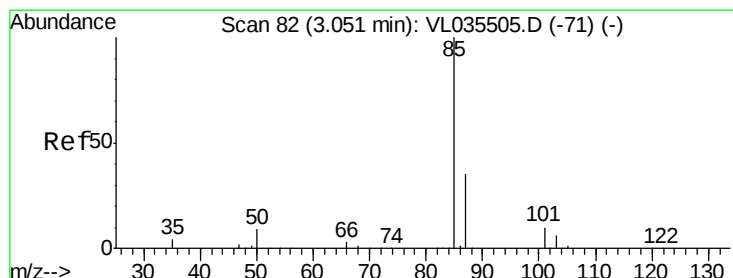
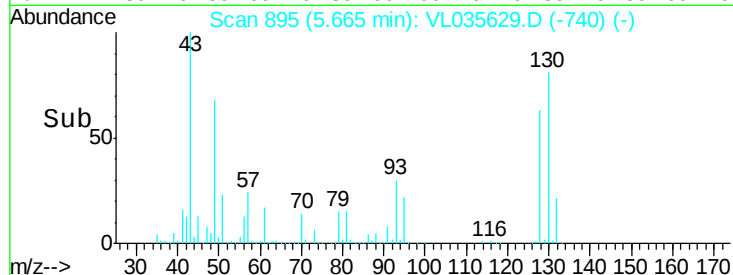
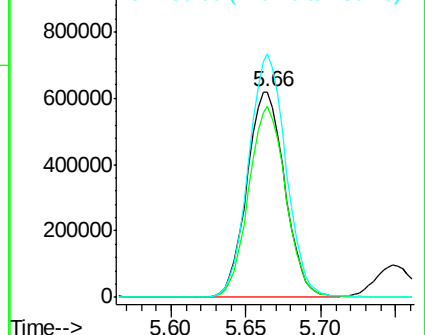
9/17/2020 1:52:23 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 8.581 ppbv

RT: 3.04 min Scan# 78

Delta R.T. 0.00 min

Lab File: VL035629.D

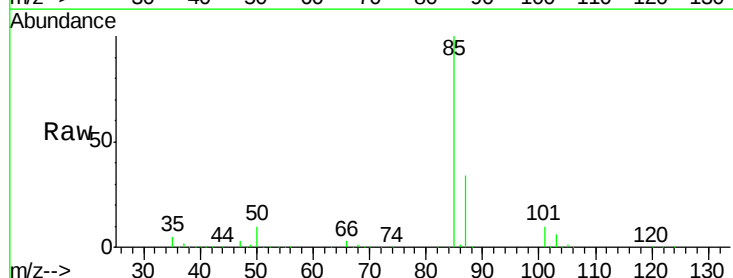
Acq: 16 Sep 2020 14:28

Tgt Ion: 85 Resp: 1627289

Ion Ratio Lower Upper

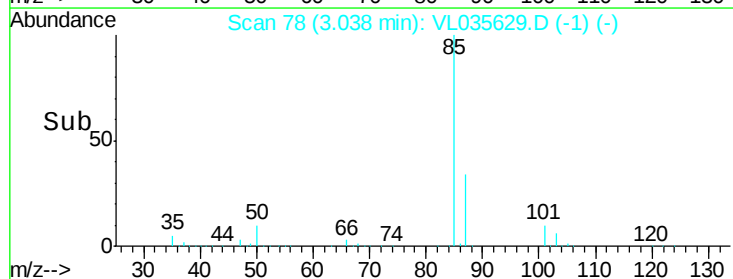
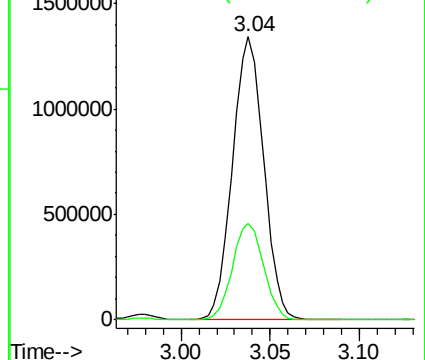
85 100

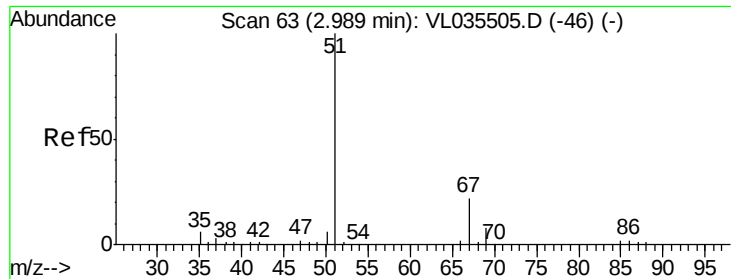
87 33.9 28.0 42.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 10.079 ppbv

RT: 2.98 min Scan# 59

Delta R.T. 0.00 min

Lab File: VL035629.D

Acq: 16 Sep 2020 14:28

Tot Ion: 51 Resp: 1219723

Ion Ratio Lower Upper

51 100

67 22.6 17.8 26.8

Instrument :

MSVOA\_L

ClientSampleId :

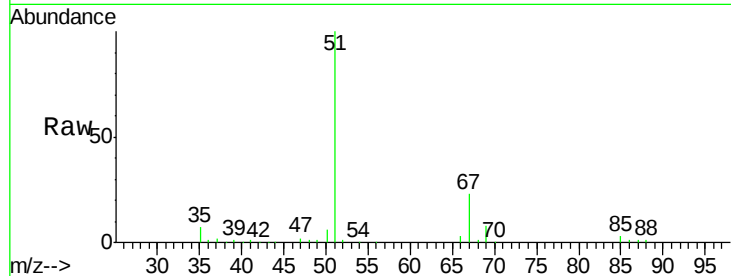
VL0916ABS01

Manual Integrations

APPROVED

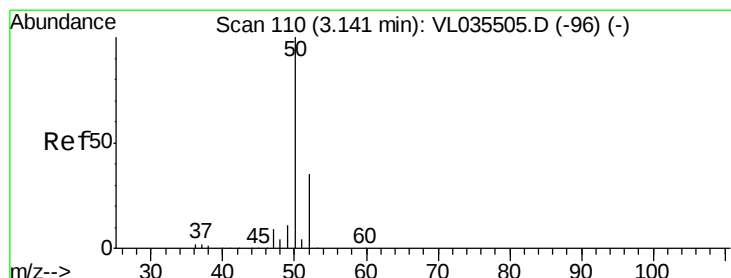
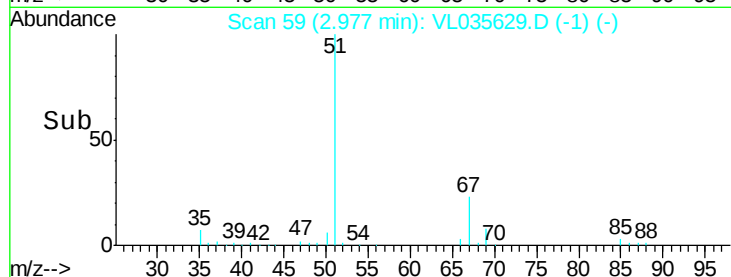
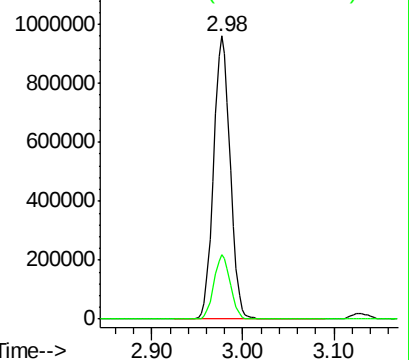
MMDadoda

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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 10.145 ppbv

RT: 3.13 min Scan# 106

Delta R.T. -0.00 min

Lab File: VL035629.D

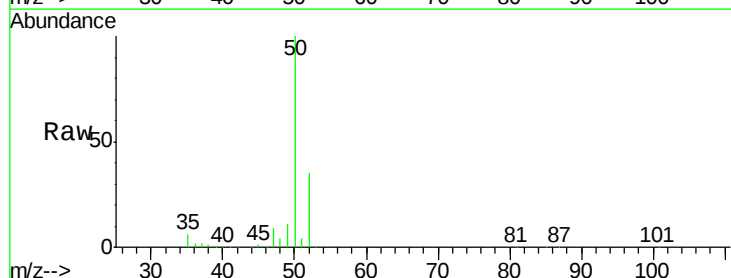
Acq: 16 Sep 2020 14:28

Tgt Ion: 50 Resp: 657763

Ion Ratio Lower Upper

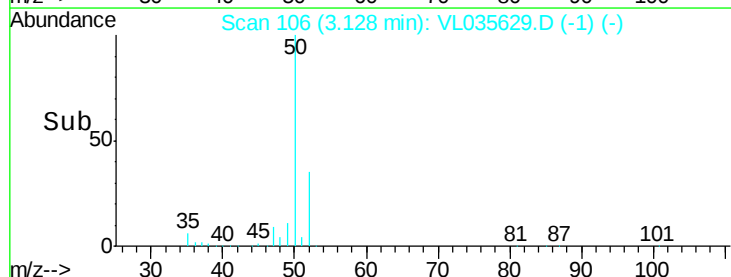
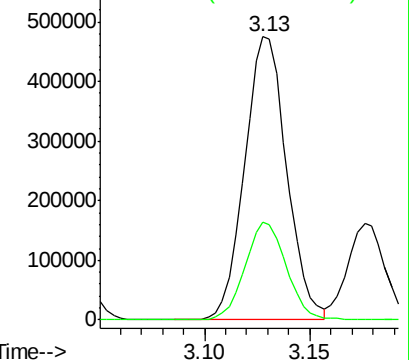
50 100

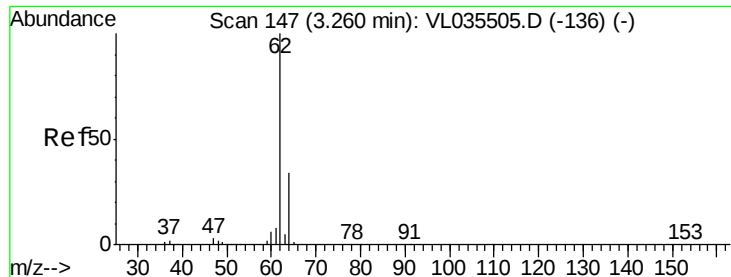
52 34.7 27.7 41.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.831 ppbv

RT: 3.25 min Scan# 143

Delta R.T. 0.00 min

Lab File: VL035629.D

Acq: 16 Sep 2020 14:28

Instrument :

MSVOA\_L

ClientSampleId :

VL0916ABS01

Tot Ion: 62 Resp: 785877

Ion Ratio Lower Upper

62 100

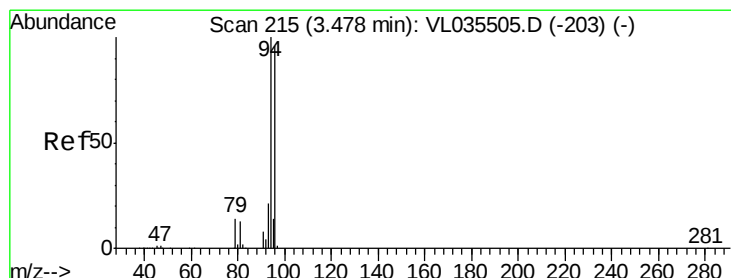
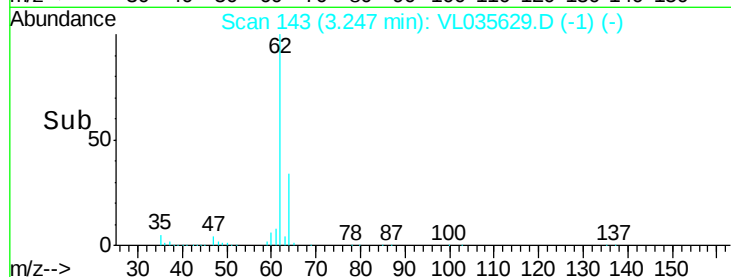
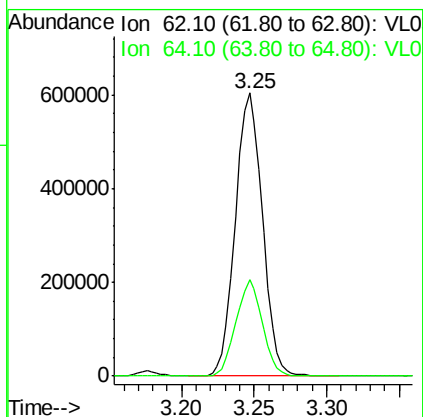
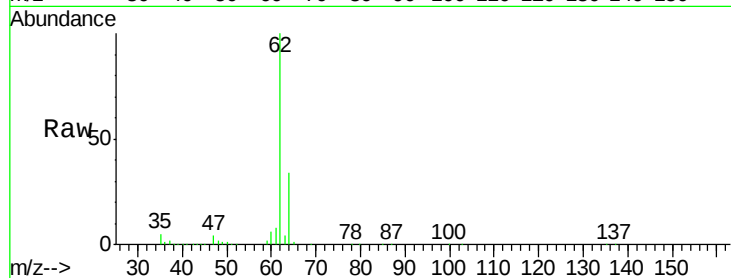
64 34.1 27.4 41.2

Manual Integrations

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#6

Bromomethane

Concen: 10.136 ppbv

RT: 3.46 min Scan# 210

Delta R.T. -0.00 min

Lab File: VL035629.D

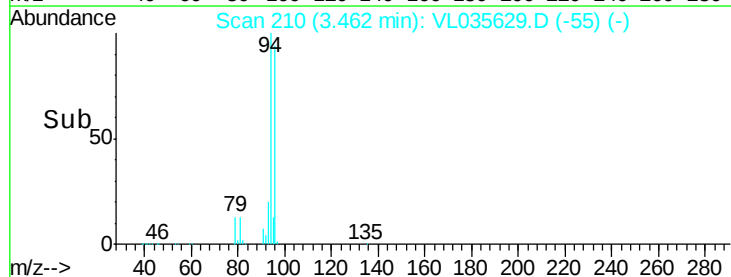
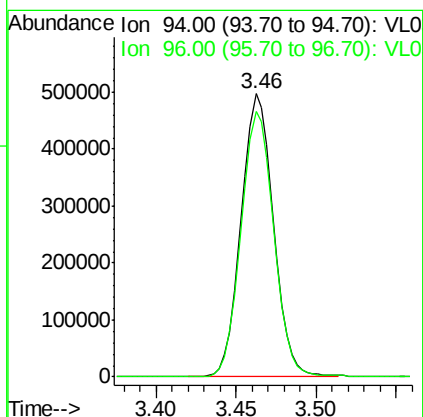
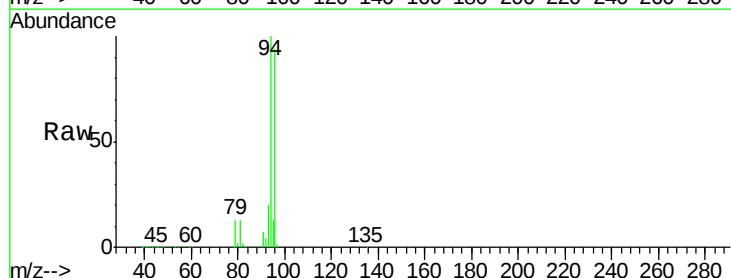
Acq: 16 Sep 2020 14:28

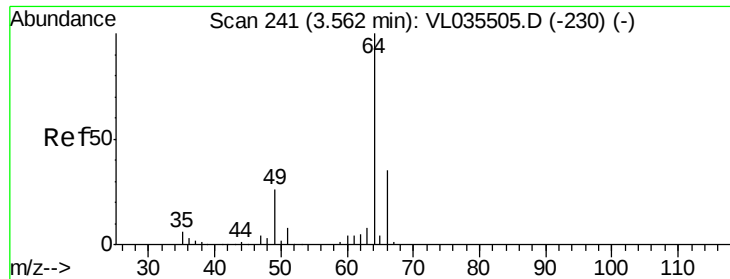
Tgt Ion: 94 Resp: 680576

Ion Ratio Lower Upper

94 100

96 94.0 77.1 115.7





#7

Chloroethane

Concen: 10.460 ppbv

RT: 3.55 min Scan# 236

Delta R.T. -0.00 min

Lab File: VL035629.D

Acq: 16 Sep 2020 14:28

Instrument :

MSVOA\_L

ClientSampleId :

VL0916ABS01

Tot Ion: 64 Resp: 295601

Ion Ratio Lower Upper

64 100

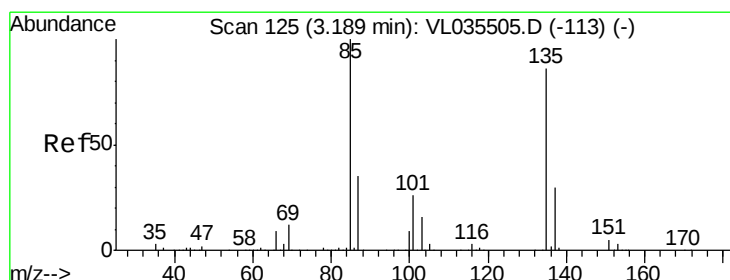
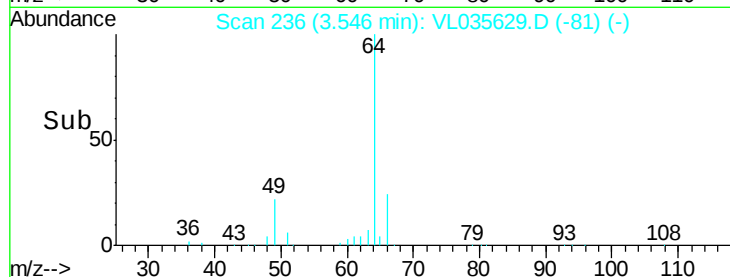
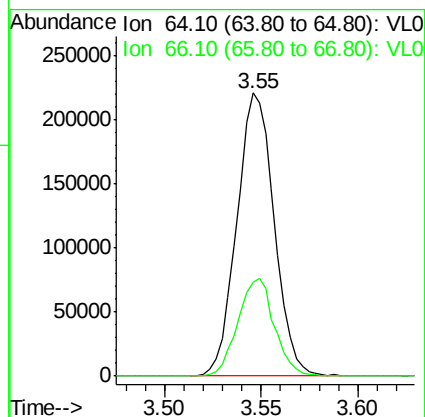
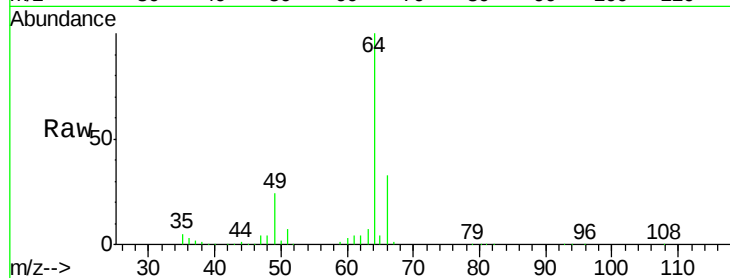
66 33.1 27.7 41.5

Manual Integrations

APPROVED

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#8

Dichlorotetrafluoroethane

Concen: 9.784 ppbv

RT: 3.18 min Scan# 121

Delta R.T. -0.00 min

Lab File: VL035629.D

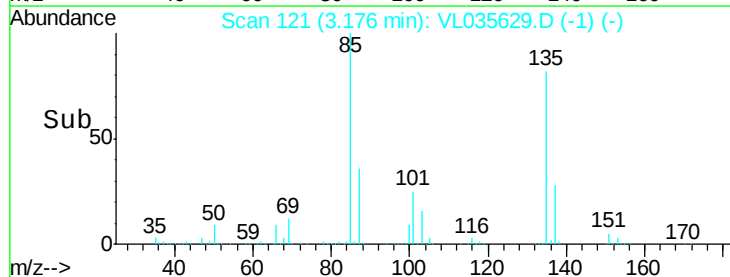
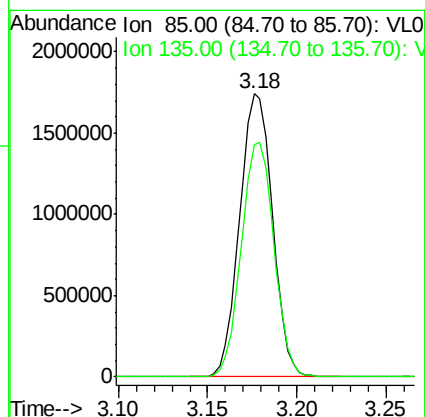
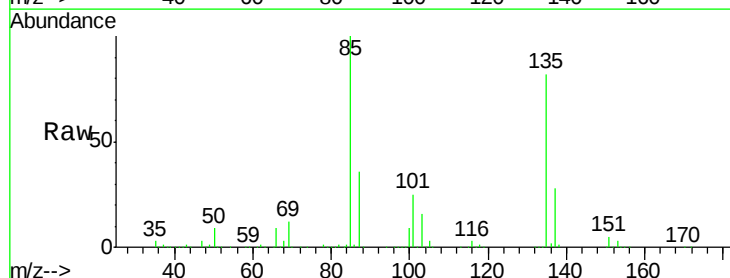
Acq: 16 Sep 2020 14:28

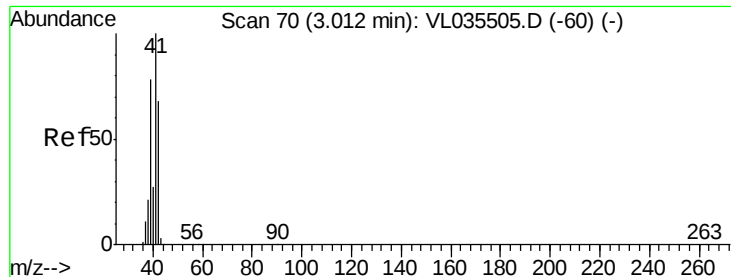
Tgt Ion: 85 Resp: 2246943

Ion Ratio Lower Upper

85 100

135 83.0 70.4 105.6





#9

Propene

Concen: 9.919 ppbv

RT: 3.00 min Scan# 66

Delta R.T. 0.00 min

Lab File: VL035629.D

Acq: 16 Sep 2020 14:28

Instrument :

MSVOA\_L

ClientSampleId :

VL0916ABS01

Tot Ion: 41 Resp: 462754

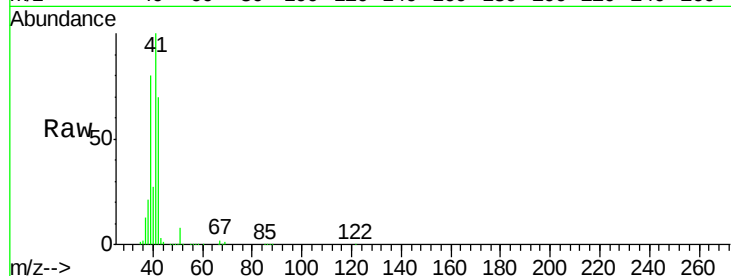
Ion Ratio Lower Upper

41 100

42 71.1 56.3 84.5

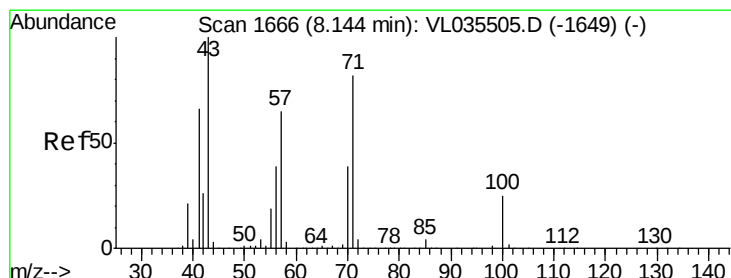
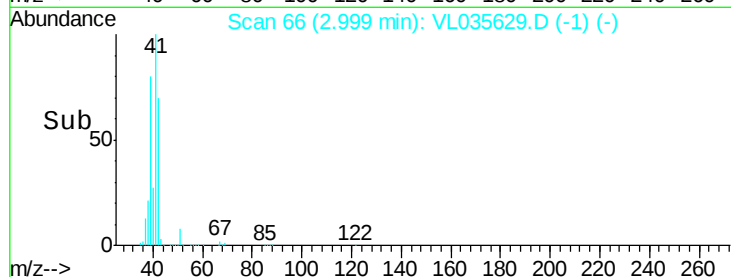
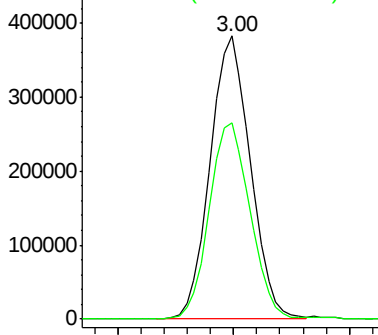
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 10.656 ppbv

RT: 8.12 min Scan# 1660

Delta R.T. -0.00 min

Lab File: VL035629.D

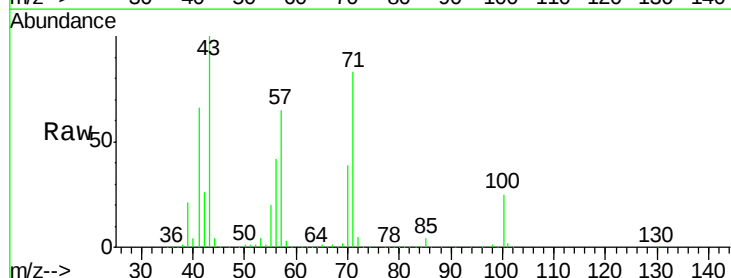
Acq: 16 Sep 2020 14:28

Tgt Ion: 43 Resp: 1335361

Ion Ratio Lower Upper

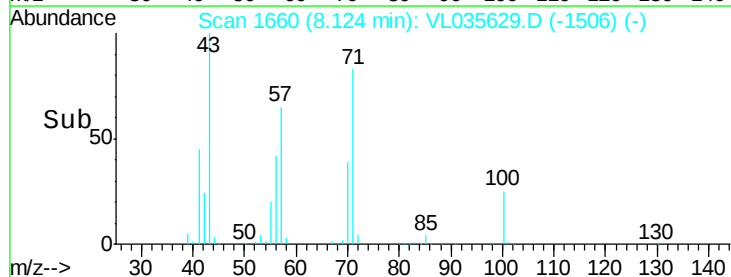
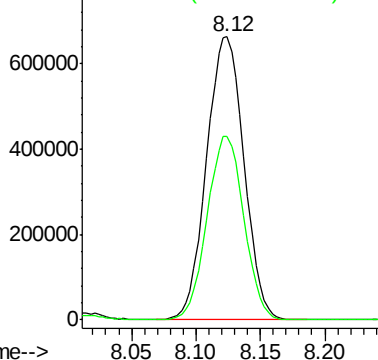
43 100

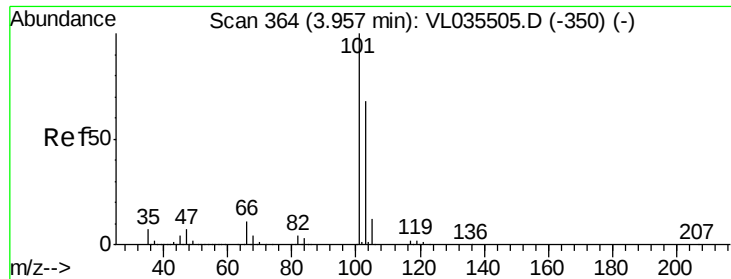
57 64.0 51.4 77.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





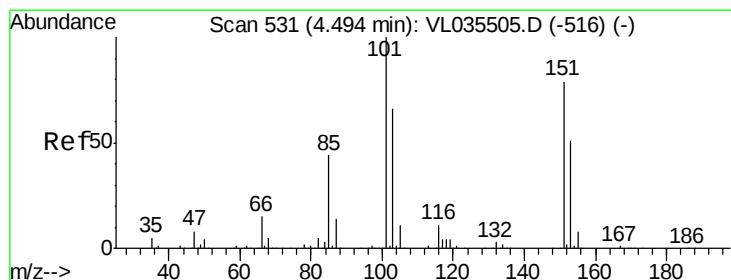
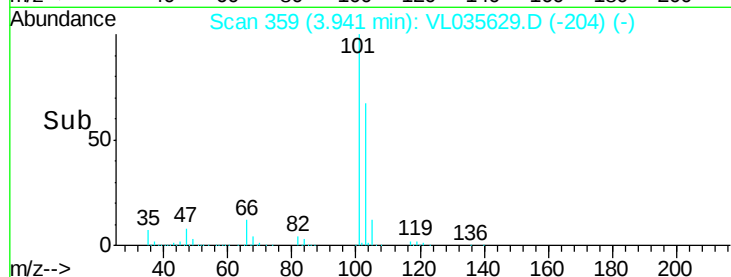
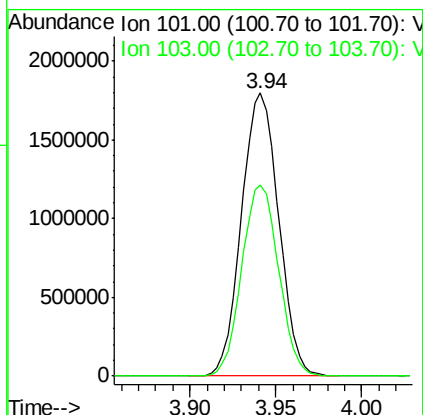
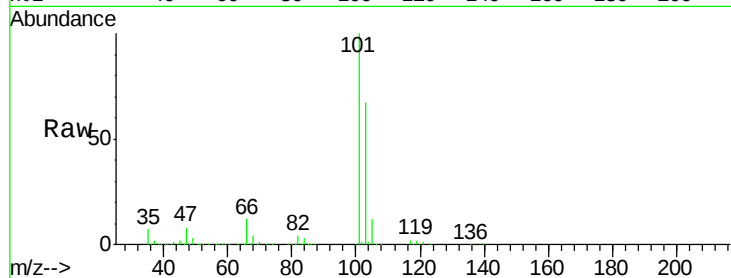
#11  
 Trichlorofluoromethane  
 Concen: 9.786 ppbv  
 RT: 3.94 min Scan# 359  
 Delta R.T. -0.00 min  
 Lab File: VL035629.D  
 Acq: 16 Sep 2020 14:28

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0916ABS01

Tot Ion:101 Resp: 2706216  
 Ion Ratio Lower Upper  
 101 100  
 103 67.4 54.5 81.7

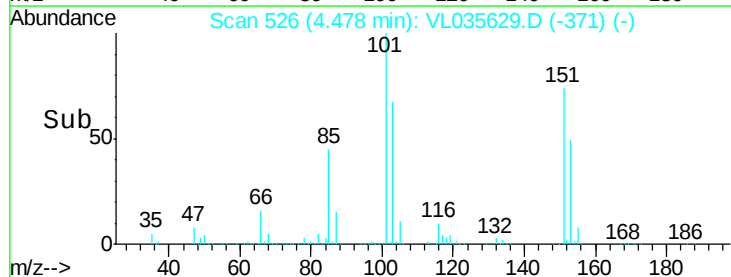
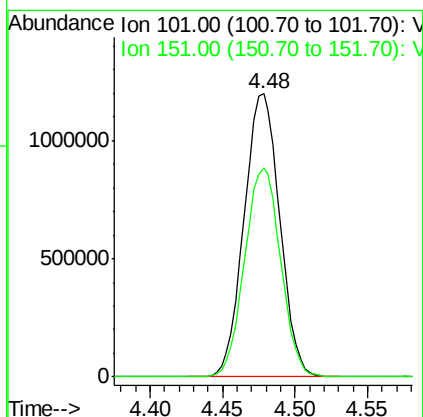
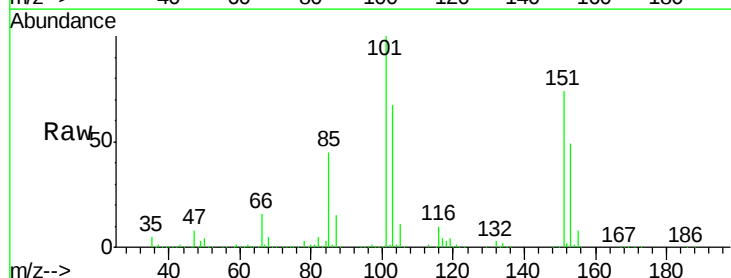
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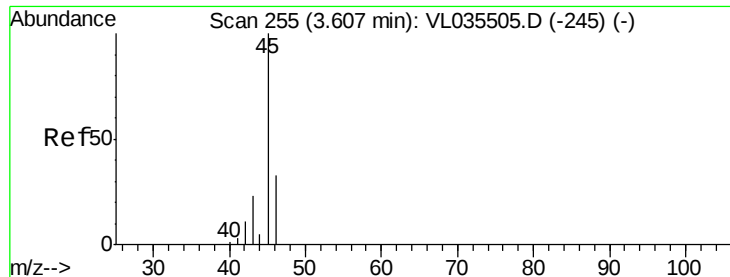
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#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 9.867 ppbv  
 RT: 4.48 min Scan# 526  
 Delta R.T. -0.00 min  
 Lab File: VL035629.D  
 Acq: 16 Sep 2020 14:28

Tgt Ion:101 Resp: 2059368  
 Ion Ratio Lower Upper  
 101 100  
 151 74.5 63.5 95.3





#13

Ethanol

Concen: 9.092 ppbv

RT: 3.59 min Scan# 251

Delta R.T. -0.00 min

Lab File: VL035629.D

Acq: 16 Sep 2020 14:28

Instrument :

MSVOA\_L

ClientSampleId :

VL0916ABS01

Tot Ion: 45 Resp: 105178

Ion Ratio Lower Upper

45 100

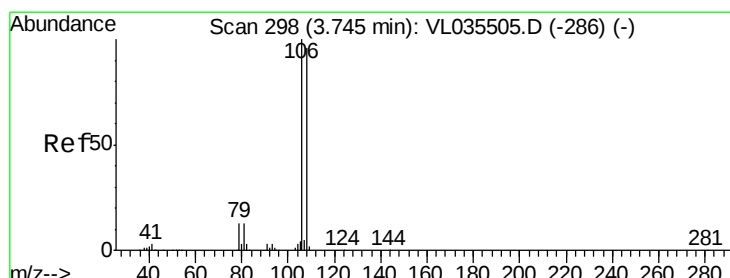
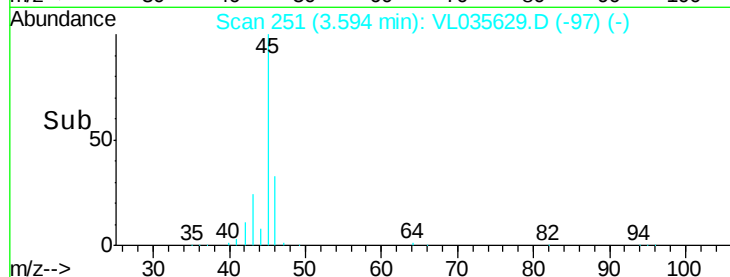
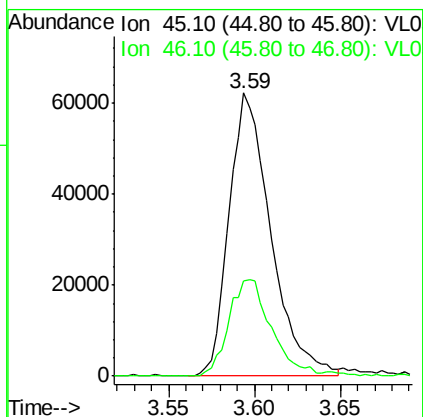
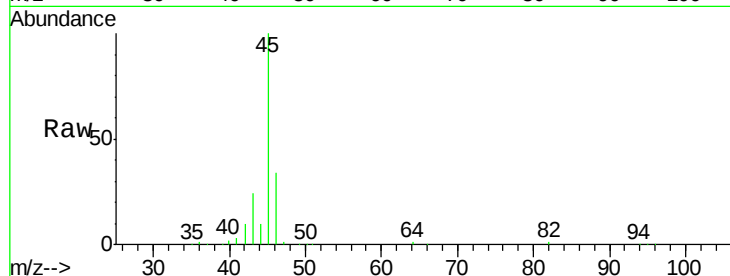
46 35.7 15.2 60.6

Manual Integrations

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#14

Bromoethene

Concen: 10.313 ppbv

RT: 3.73 min Scan# 293

Delta R.T. -0.00 min

Lab File: VL035629.D

Acq: 16 Sep 2020 14:28

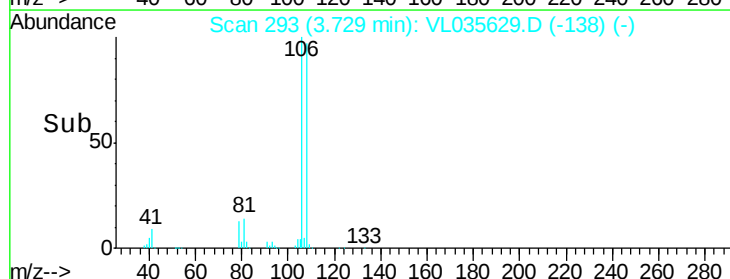
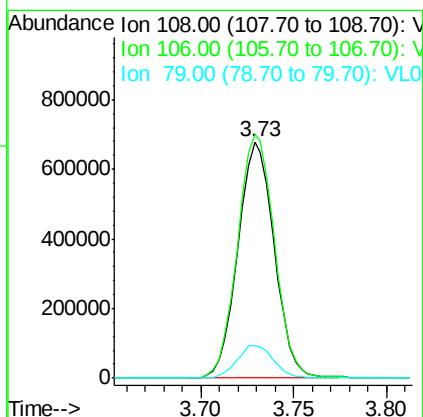
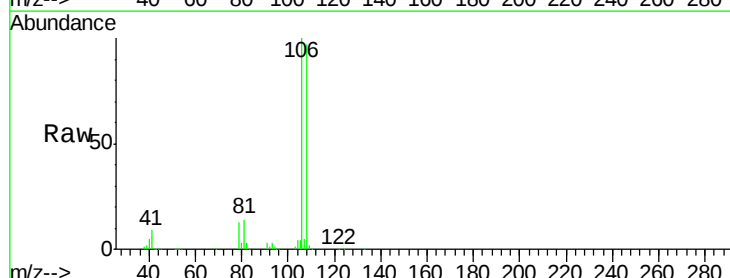
Tgt Ion: 108 Resp: 926527

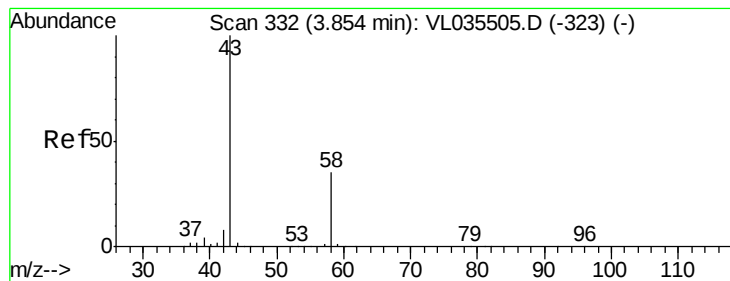
Ion Ratio Lower Upper

108 100

106 105.6 84.9 127.3

79 14.1 10.8 16.2





#15

Acetone

Concen: 8.995 ppbv

RT: 3.84 min Scan# 328

Delta R.T. 0.00 min

Lab File: VL035629.D

Acq: 16 Sep 2020 14:28

Instrument :

MSVOA\_L

ClientSampleId :

VL0916ABS01

Tot Ion: 43 Resp: 1085596

Ion Ratio Lower Upper

43 100

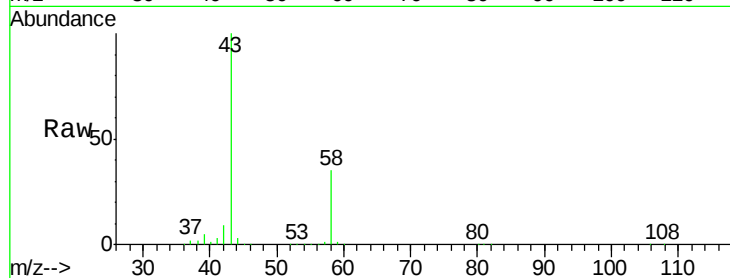
58 35.2 28.4 42.6

Manual Integrations

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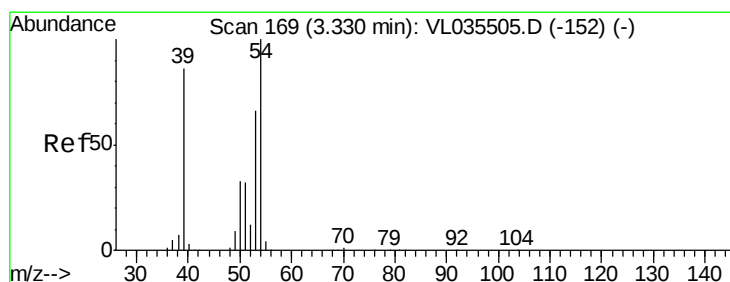
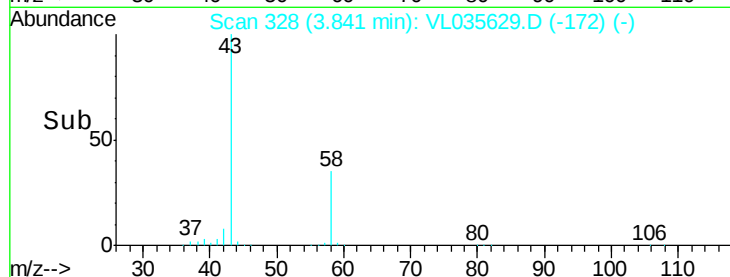
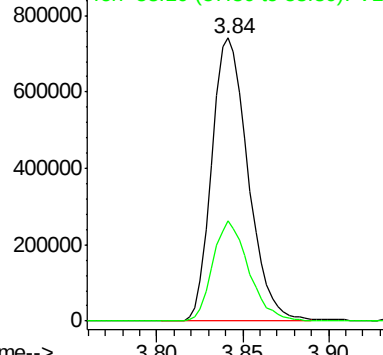
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 10.706 ppbv

RT: 3.32 min Scan# 165

Delta R.T. -0.00 min

Lab File: VL035629.D

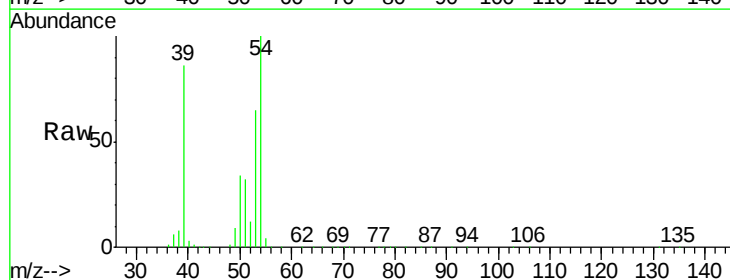
Acq: 16 Sep 2020 14:28

Tgt Ion: 39 Resp: 480990

Ion Ratio Lower Upper

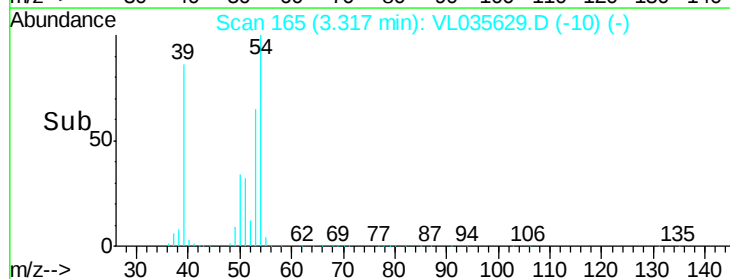
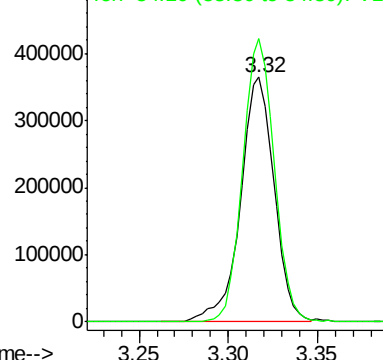
39 100

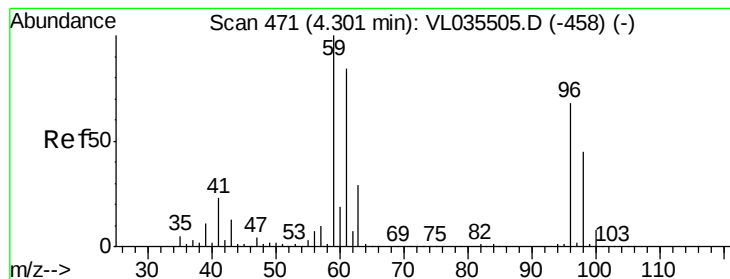
54 108.8 88.4 132.6



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

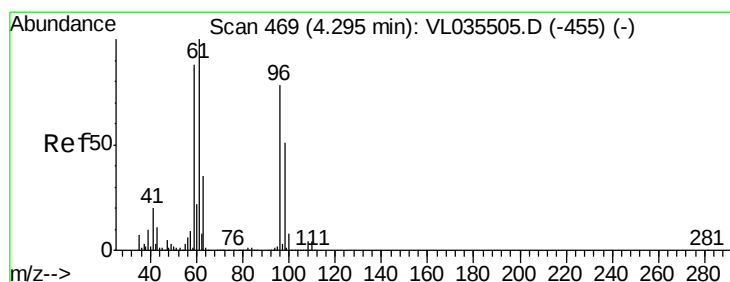
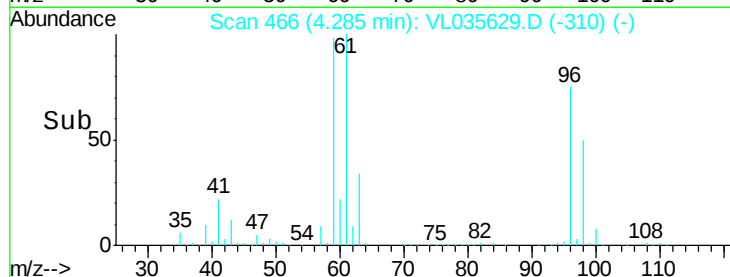
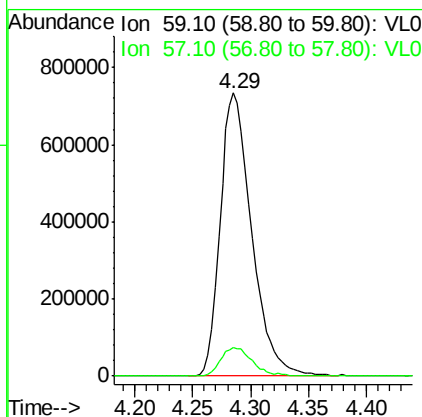
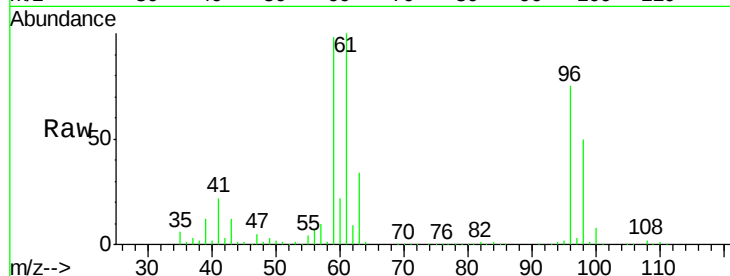
tert-Butyl alcohol  
 Concen: 9.430 ppbv  
 RT: 4.29 min Scan# 466  
 Delta R.T. 0.00 min  
 Lab File: VL035629.D  
 Acq: 16 Sep 2020 14:28

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0916ABS01

Tot Ion: 59 Resp: 1385306  
 Ion Ratio Lower Upper  
 59 100  
 57 10.4 8.4 12.6

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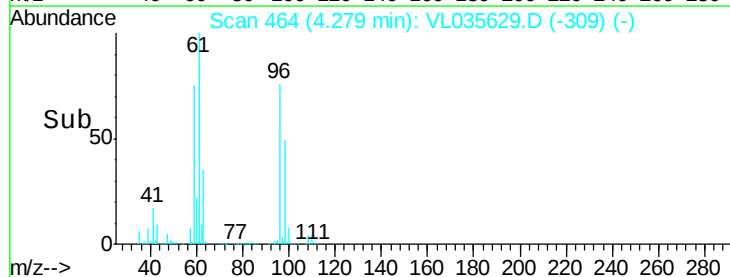
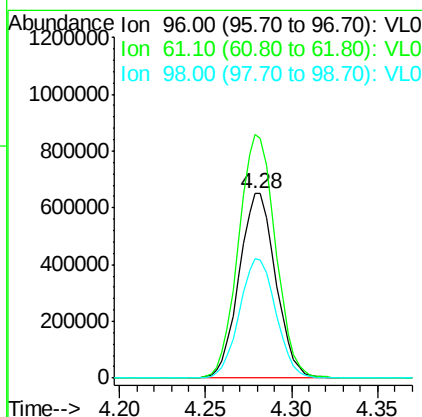
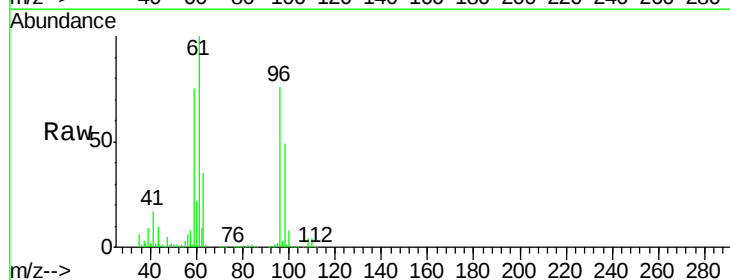
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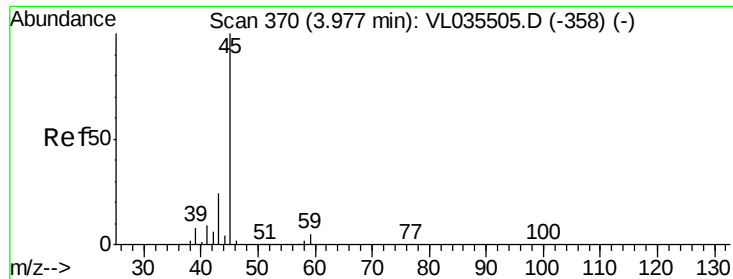


#18

1,1-Dichloroethene  
 Concen: 10.468 ppbv  
 RT: 4.28 min Scan# 464  
 Delta R.T. -0.00 min  
 Lab File: VL035629.D  
 Acq: 16 Sep 2020 14:28

Tgt Ion: 96 Resp: 962126  
 Ion Ratio Lower Upper  
 96 100  
 61 131.9 103.0 154.6  
 98 64.7 52.8 79.2





#19

Isopropyl Alcohol

Concen: 9.417 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.00 min

Lab File: VL035629.D

Acq: 16 Sep 2020 14:28

Instrument :

MSVOA\_L

ClientSampleId :

VL0916ABS01

Tot Ion: 45 Resp: 677979

Ion Ratio Lower Upper

45 100

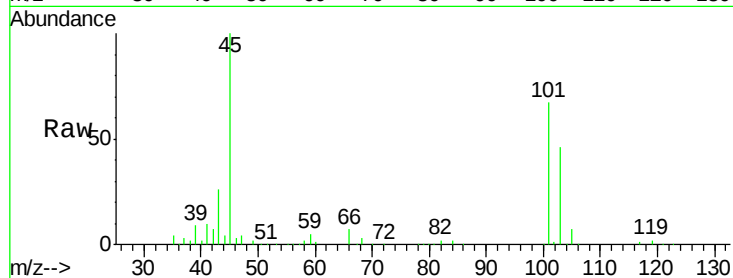
58 2.5 2.0 3.0

Manual Integrations

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.96

400000

300000

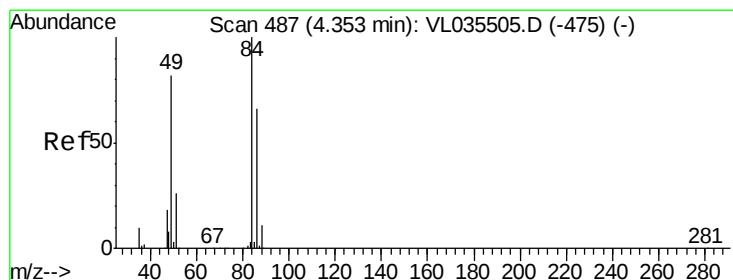
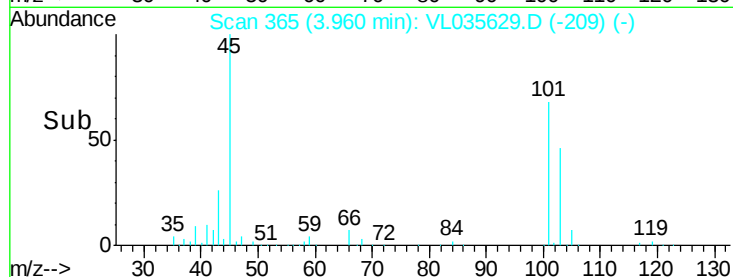
200000

100000

0

3.90 3.95 4.00 4.05

Time-->



#20

Methylene Chloride

Concen: 9.522 ppbv

RT: 4.34 min Scan# 482

Delta R.T. -0.00 min

Lab File: VL035629.D

Acq: 16 Sep 2020 14:28

Tgt Ion: 84 Resp: 855907

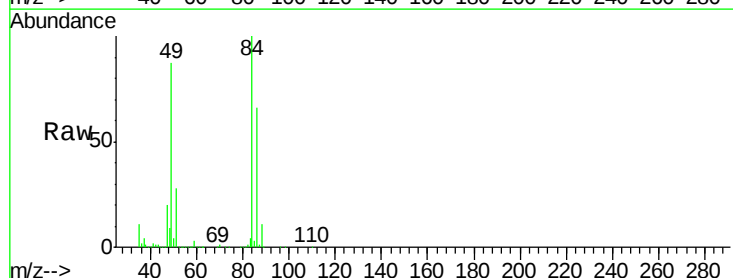
Ion Ratio Lower Upper

84 100

49 86.8 65.4 98.0

51 28.0 21.5 32.3

86 66.5 52.9 79.3



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

4.34

800000

600000

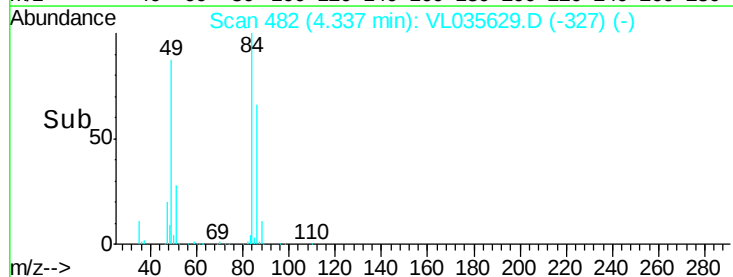
400000

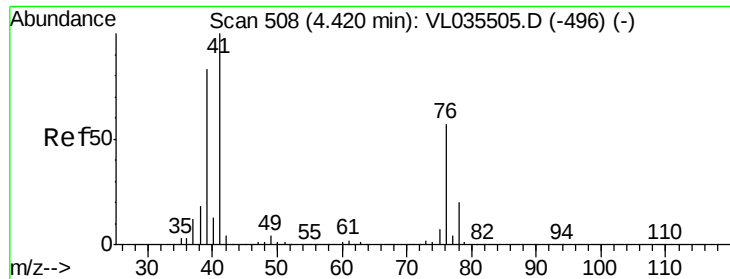
200000

0

4.30 4.35 4.40

Time-->





#21

Allvl Chloride

Concen: 11.371 ppbv

RT: 4.40 min Scan# 503

Delta R.T. -0.00 min

Lab File: VL035629.D

Acq: 16 Sep 2020 14:28

Instrument :

MSVOA\_L

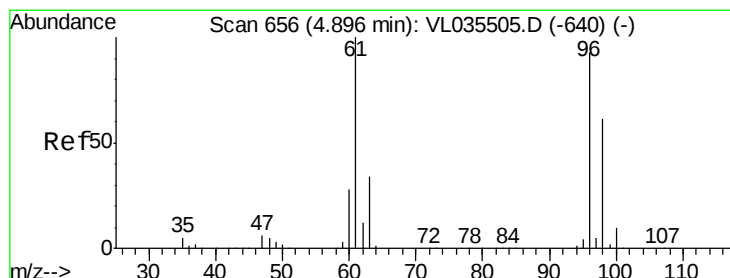
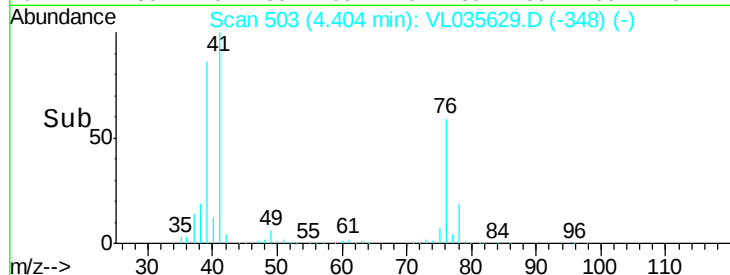
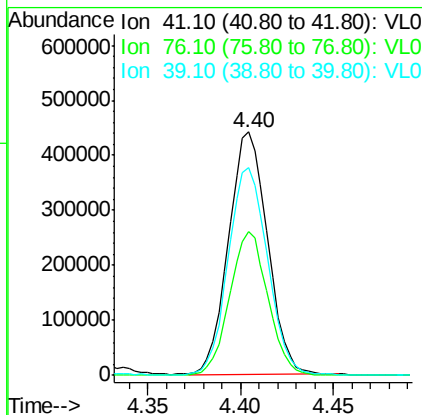
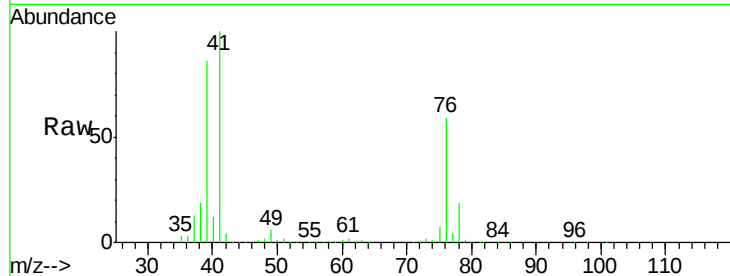
ClientSampleId :

VL0916ABS01

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 41    | Resp: | 642918 |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 76       | 58.3  | 46.2  | 69.2   |
| 39       | 87.2  | 67.8  | 101.6  |

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#22

trans-1,2-Dichloroethene

Concen: 10.303 ppbv

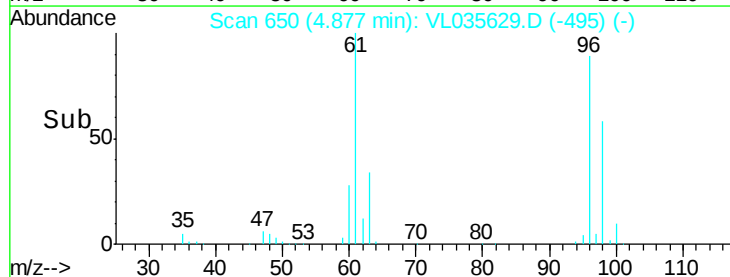
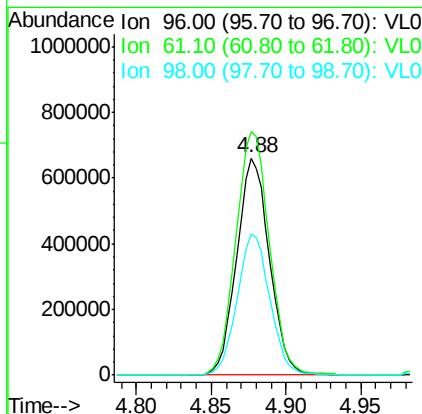
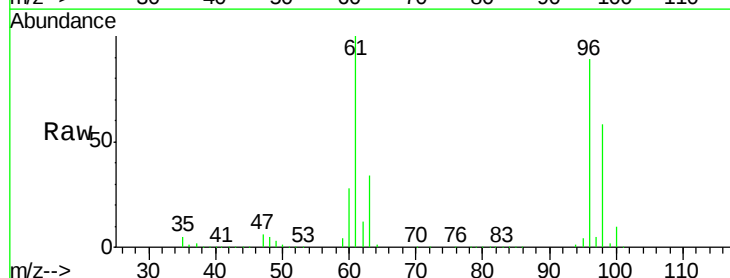
RT: 4.88 min Scan# 650

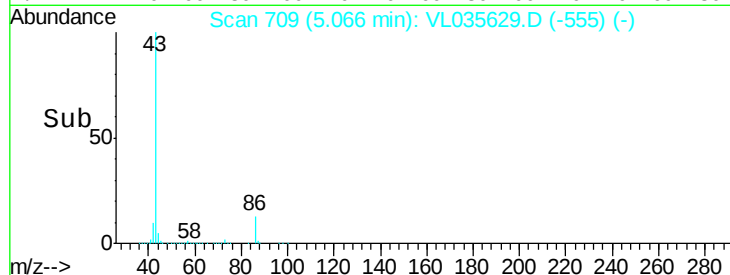
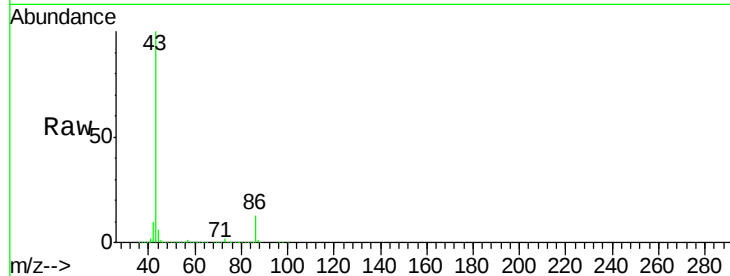
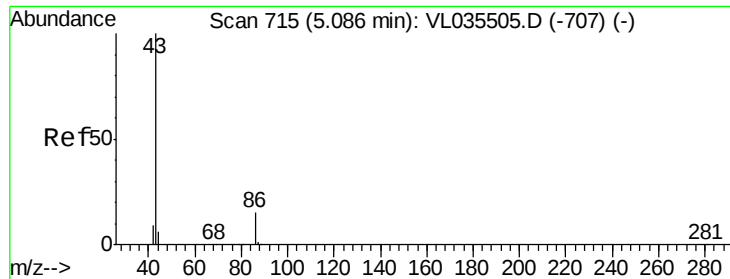
Delta R.T. -0.00 min

Lab File: VL035629.D

Acq: 16 Sep 2020 14:28

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 96    | Resp: | 1008123 |
| Ion      | Ratio | Lower | Upper   |
| 96       | 100   |       |         |
| 61       | 112.3 | 86.0  | 129.0   |
| 98       | 65.3  | 52.3  | 78.5    |





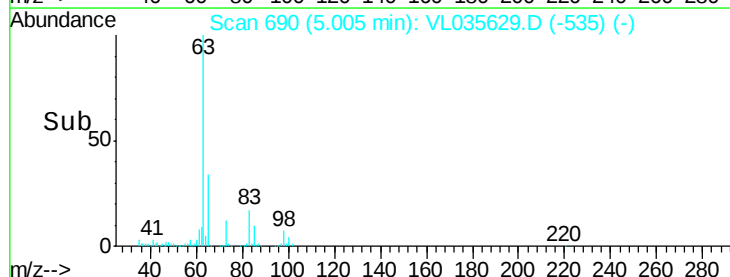
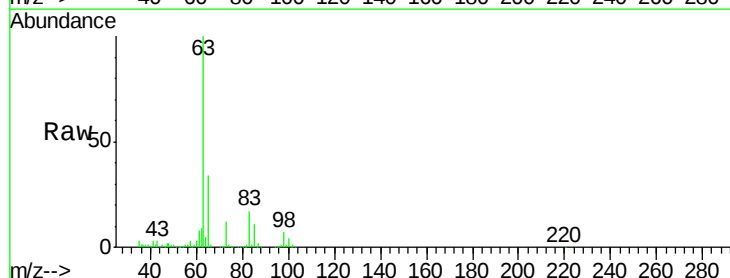
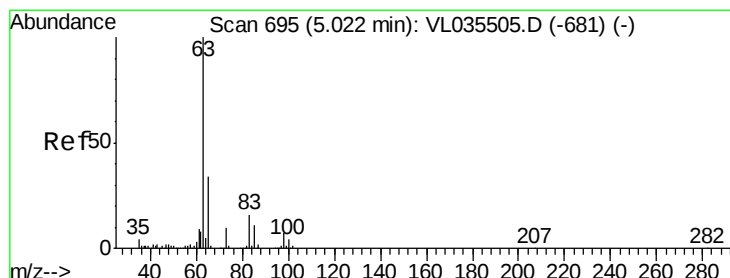
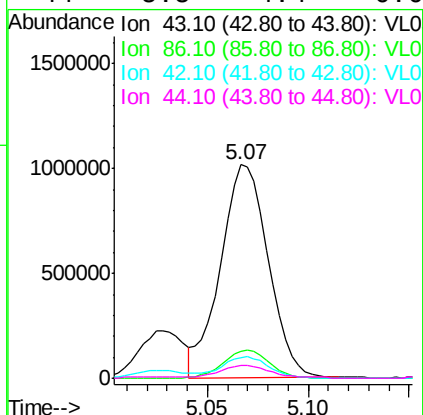
#23  
 Vinyl Acetate  
 Concen: 10.853 ppbv  
 RT: 5.07 min Scan# 709  
 Delta R.T. -0.00 min  
 Lab File: VL035629.D  
 Acq: 16 Sep 2020 14:28

| Tot Ion | 43    | Resp  | 1681058 |
|---------|-------|-------|---------|
| Ion     | Ratio | Lower | Upper   |
| 43      | 100   |       |         |
| 86      | 12.6  | 10.6  | 16.0    |
| 42      | 9.7   | 7.5   | 11.3    |
| 44      | 5.5   | 4.4   | 6.6     |

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0916ABS01

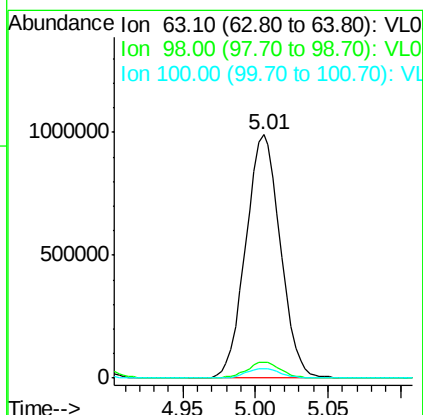
Manual Integrations  
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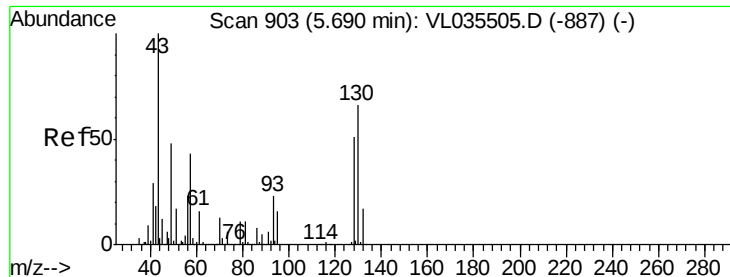
MMDadoda  
 9/17/2020 1:52:23 PM



#24  
 1,1-Dichloroethane  
 Concen: 10.297 ppbv  
 RT: 5.01 min Scan# 690  
 Delta R.T. -0.00 min  
 Lab File: VL035629.D  
 Acq: 16 Sep 2020 14:28

| Tgt Ion | 63    | Resp  | 1641402 |
|---------|-------|-------|---------|
| Ion     | Ratio | Lower | Upper   |
| 63      | 100   |       |         |
| 98      | 6.5   | 3.4   | 10.1    |
| 100     | 4.0   | 2.1   | 6.5     |





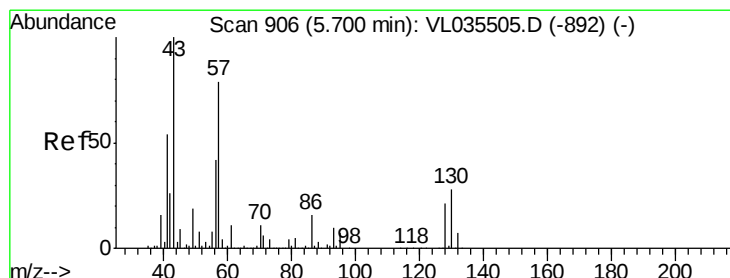
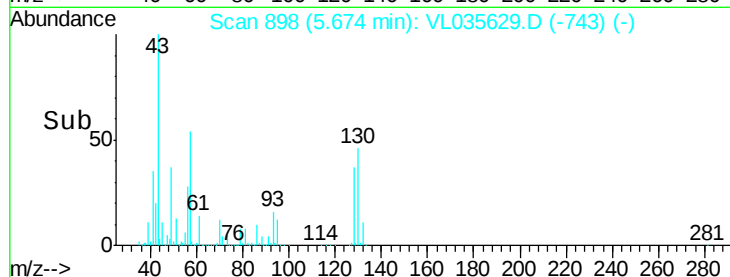
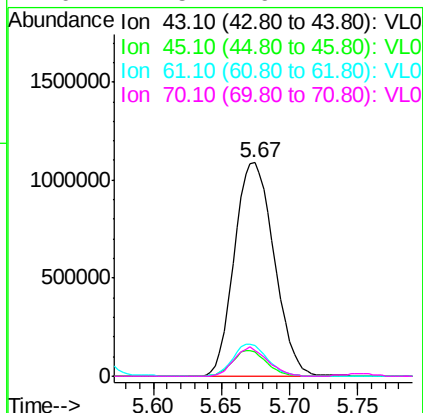
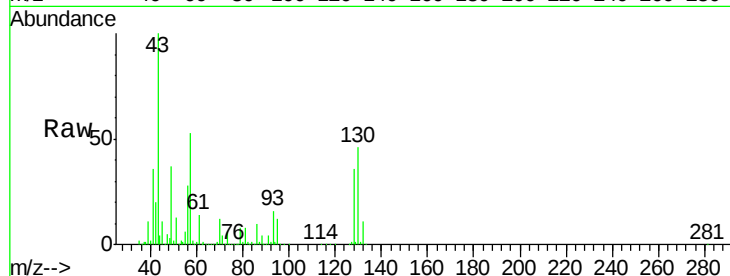
#25  
Ethyl Acetate  
Concen: 10.346 ppbv  
RT: 5.67 min Scan# 898  
Delta R.T. -0.00 min  
Lab File: VL035629.D  
Acq: 16 Sep 2020 14:28

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0916ABS01

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 43      | 100  |       |       |       |
| 45      | 10.6 | 8.4   | 12.6  |       |
| 61      | 13.4 | 10.6  | 16.0  |       |
| 70      | 11.5 | 9.4   | 14.2  |       |

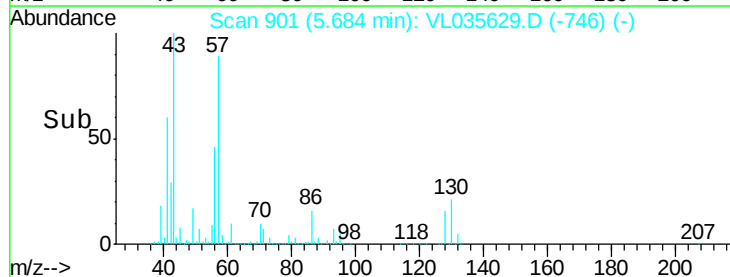
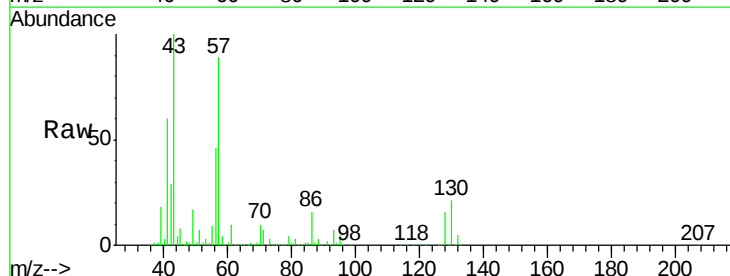
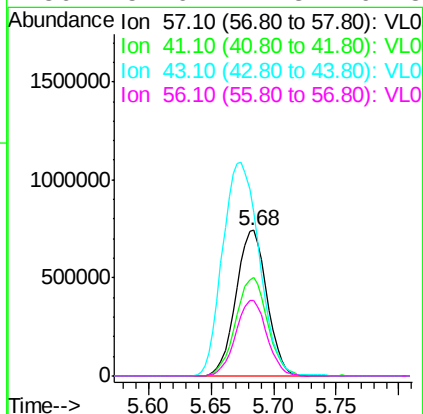
Manual Integrations  
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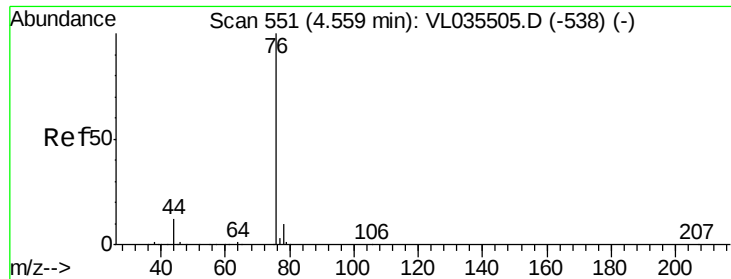
MMDadoda  
9/17/2020 1:52:23 PM



#26  
Hexane  
Concen: 10.536 ppbv  
RT: 5.68 min Scan# 901  
Delta R.T. -0.00 min  
Lab File: VL035629.D  
Acq: 16 Sep 2020 14:28

| Tgt Ion | Ion   | Ratio | Lower | Upper |
|---------|-------|-------|-------|-------|
| 57      | 100   |       |       |       |
| 41      | 70.5  | 55.9  | 83.9  |       |
| 43      | 173.9 | 141.8 | 212.8 |       |
| 56      | 52.6  | 41.8  | 62.8  |       |





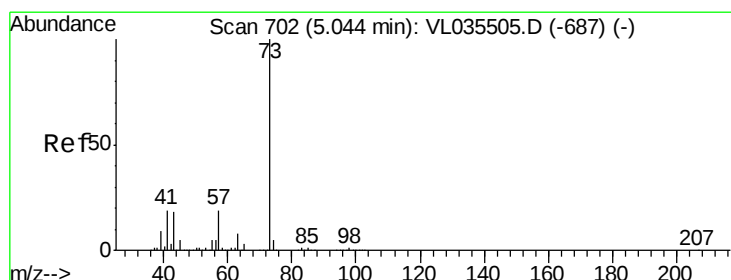
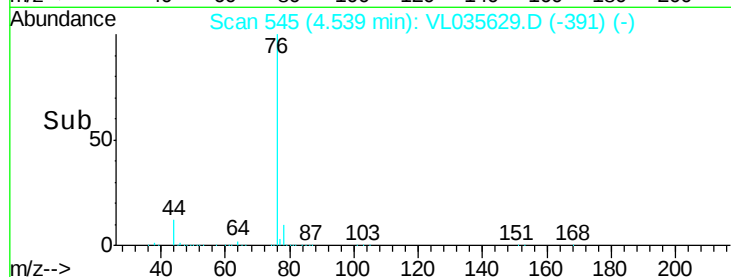
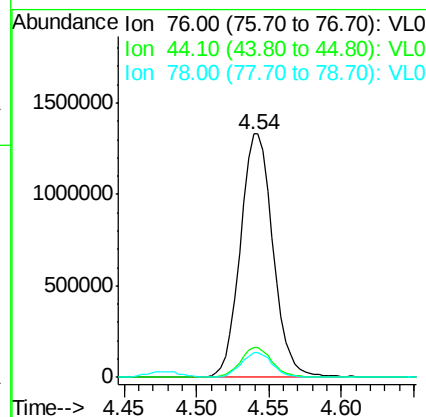
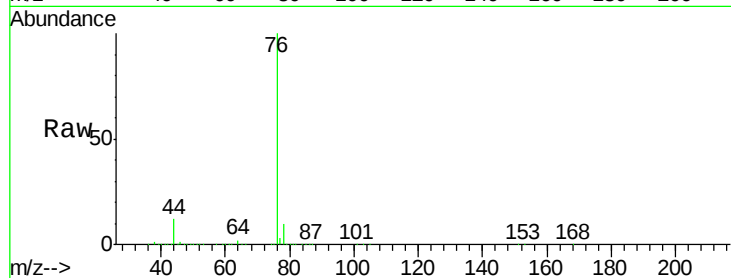
#27  
Carbon Disulfide  
Concen: 11.968 ppbv  
RT: 4.54 min Scan# 545  
Delta R.T. -0.00 min  
Lab File: VL035629.D  
Acq: 16 Sep 2020 14:28

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0916ABS01

Tot Ion: 76 Resp: 2074683  
Ion Ratio Lower Upper  
76 100  
44 11.8 9.3 13.9  
78 9.9 7.8 11.6

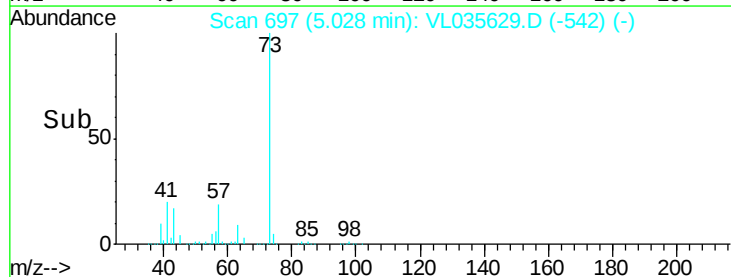
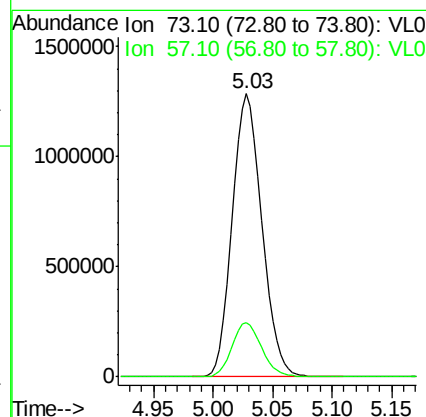
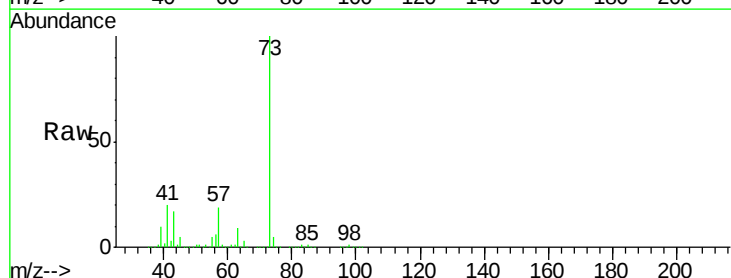
Manual Integrations  
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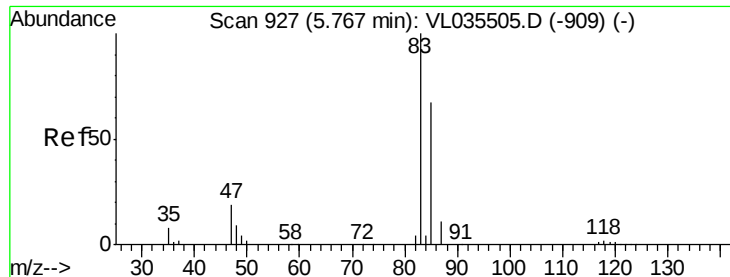
MMDadoda  
9/17/2020 1:52:23 PM



#28  
Methyl tert-Butyl Ether  
Concen: 10.574 ppbv  
RT: 5.03 min Scan# 697  
Delta R.T. -0.00 min  
Lab File: VL035629.D  
Acq: 16 Sep 2020 14:28

Tgt Ion: 73 Resp: 2226321  
Ion Ratio Lower Upper  
73 100  
57 19.2 15.2 22.8





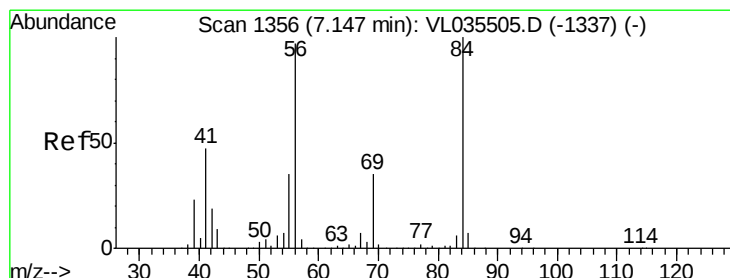
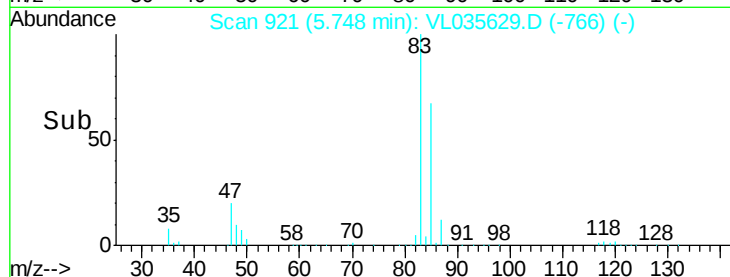
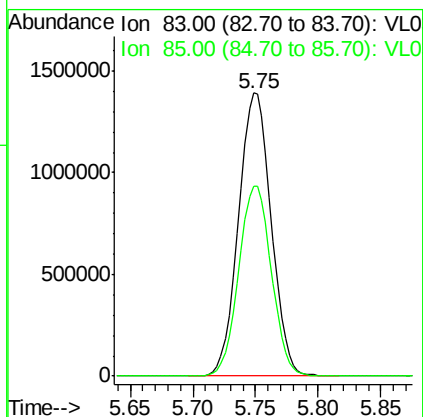
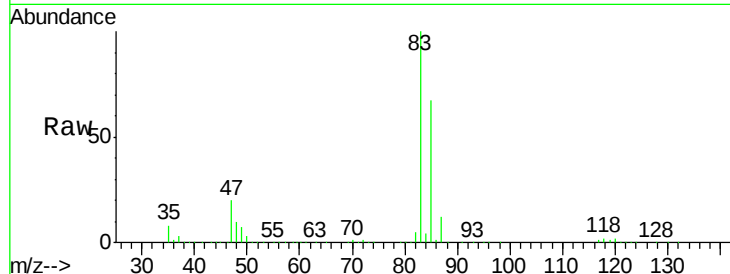
#29  
Chloroform  
Concen: 10.259 ppbv  
RT: 5.75 min Scan# 921  
Delta R.T. -0.00 min  
Lab File: VL035629.D  
Acq: 16 Sep 2020 14:28

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0916ABS01

Tot Ion: 83 Resp: 2524945  
Ion Ratio Lower Upper  
83 100  
85 67.2 53.9 80.9

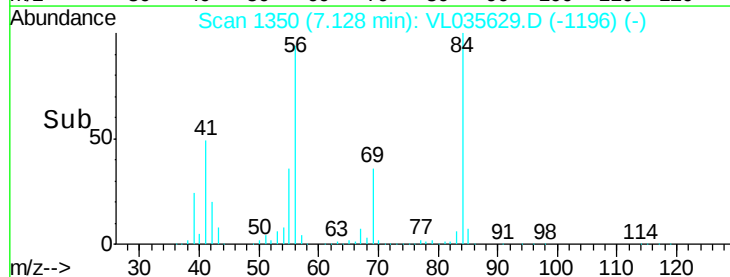
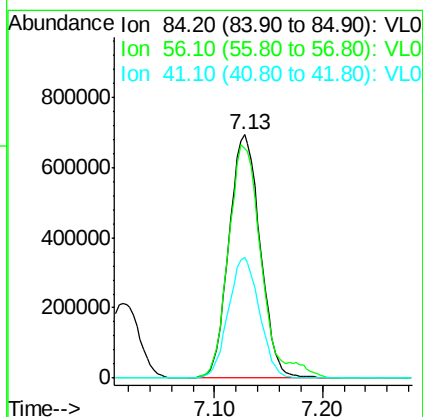
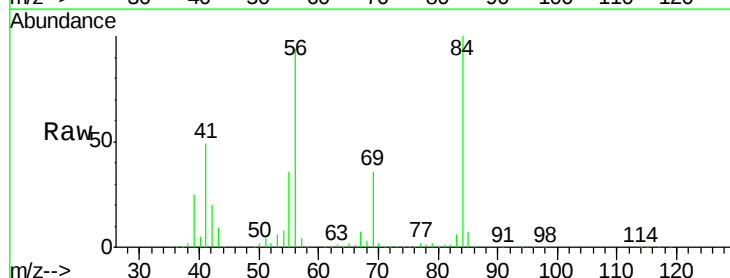
Manual Integrations  
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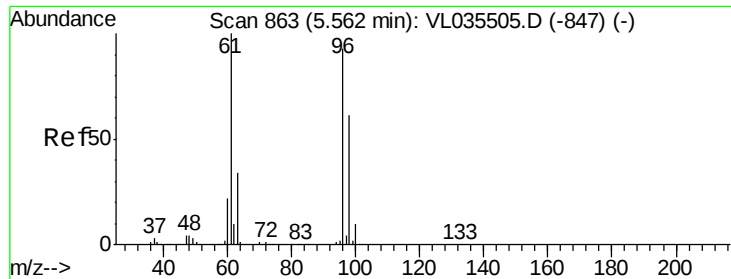
MMDadoda  
9/17/2020 1:52:23 PM



#30  
Cyclohexane  
Concen: 10.807 ppbv  
RT: 7.13 min Scan# 1350  
Delta R.T. -0.00 min  
Lab File: VL035629.D  
Acq: 16 Sep 2020 14:28

Tgt Ion: 84 Resp: 1398543  
Ion Ratio Lower Upper  
84 100  
56 101.5 80.1 120.1  
41 49.4 38.1 57.1





#31

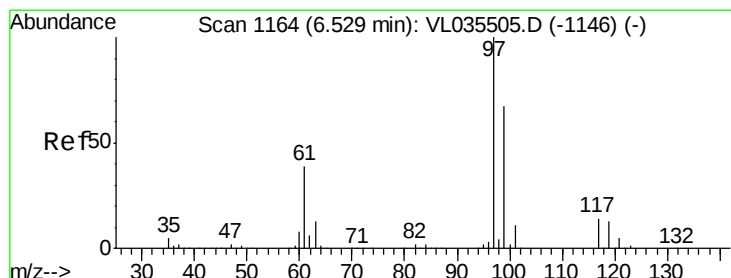
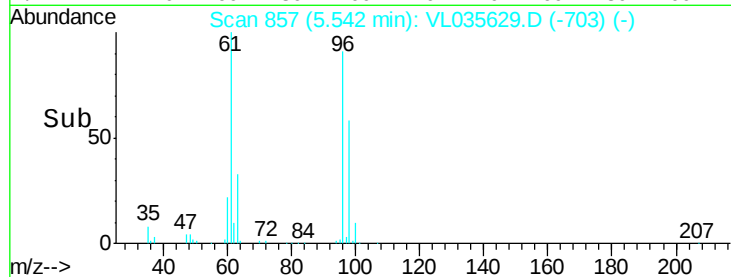
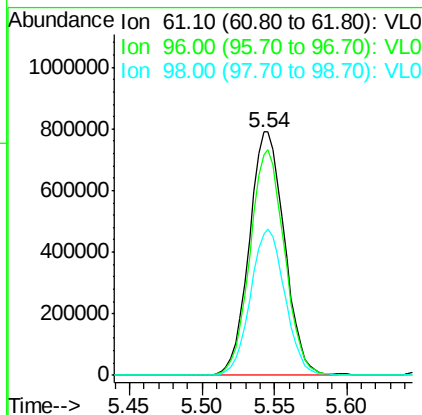
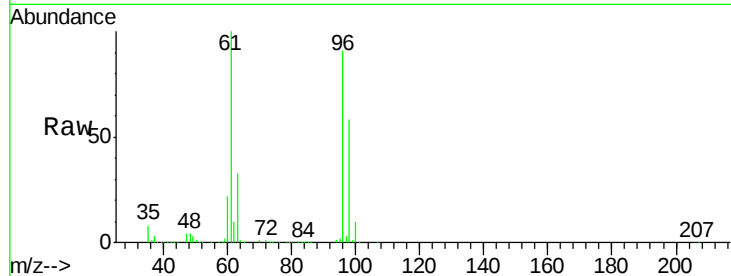
cis-1,2-Dichloroethene  
 Concen: 10.802 ppbv  
 RT: 5.54 min Scan# 857  
 Delta R.T. -0.00 min  
 Lab File: VL035629.D  
 Acq: 16 Sep 2020 14:28

Instrument :  
 MSVOA\_L  
 ClientSampleID :  
 VL0916ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 61      | 100   |       |       |
| 96      | 90.6  | 74.4  | 111.6 |
| 98      | 58.2  | 49.2  | 73.8  |

Manual Integrations  
 APPROVED

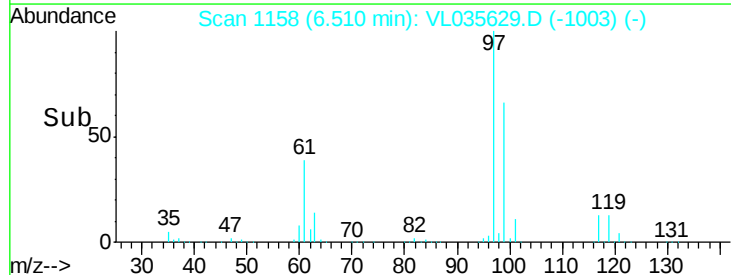
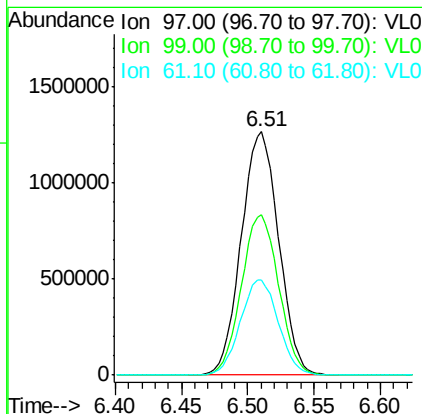
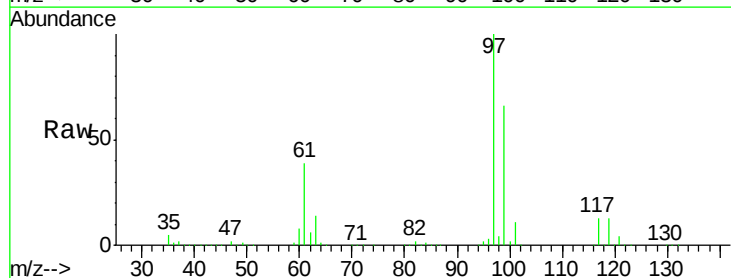
MMDadoda  
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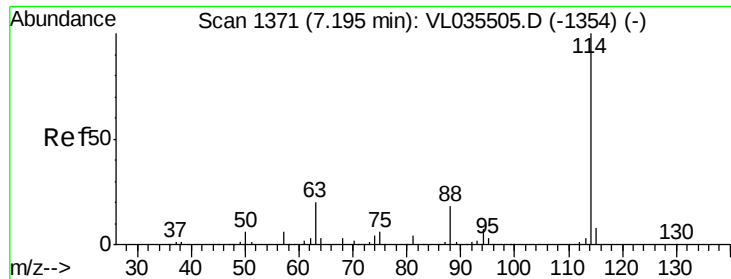


#32

1,1,1-Trichloroethane  
 Concen: 10.437 ppbv  
 RT: 6.51 min Scan# 1158  
 Delta R.T. -0.00 min  
 Lab File: VL035629.D  
 Acq: 16 Sep 2020 14:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 65.9  | 53.3  | 79.9  |
| 61      | 39.8  | 30.6  | 46.0  |





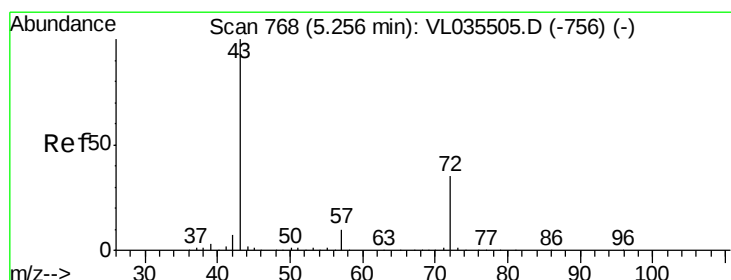
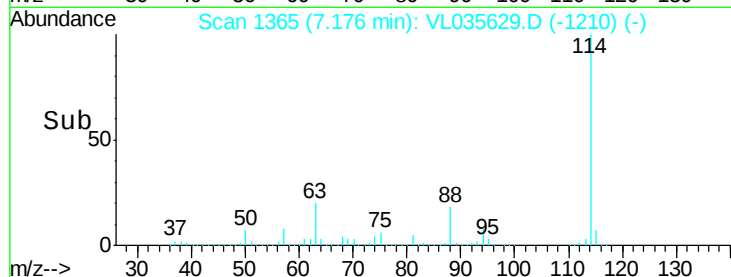
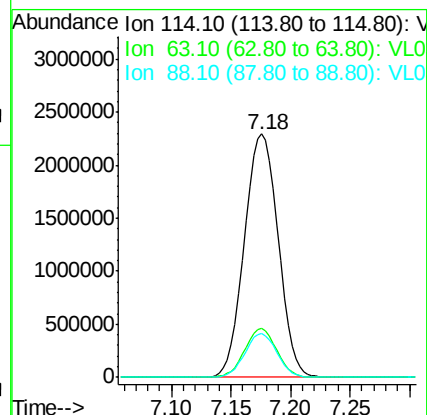
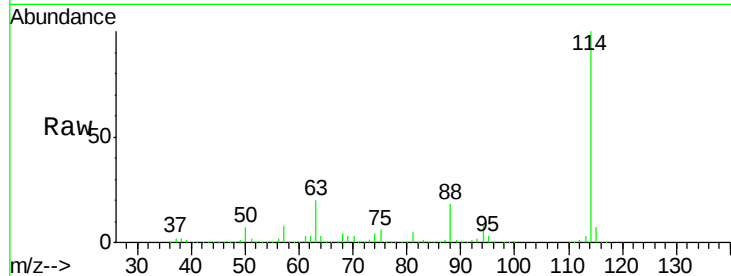
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.18 min Scan# 1365  
 Delta R.T. -0.00 min  
 Lab File: VL035629.D  
 Acq: 16 Sep 2020 14:28

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0916ABS01

Tot Ion:114 Resp: 4521756  
 Ion Ratio Lower Upper  
 114 100  
 63 19.3 14.7 22.1  
 88 17.2 13.4 20.2

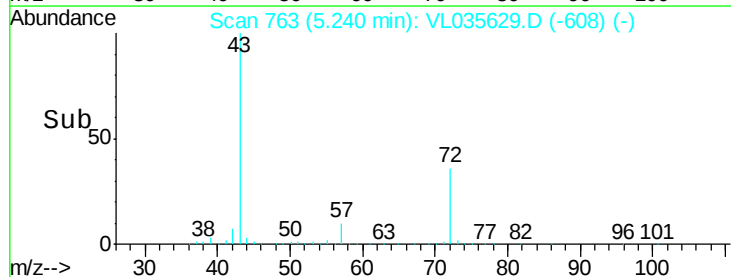
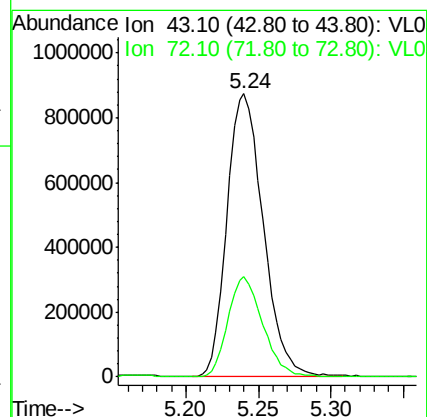
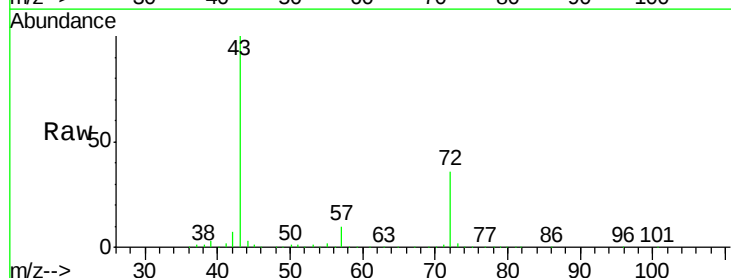
Manual Integrations  
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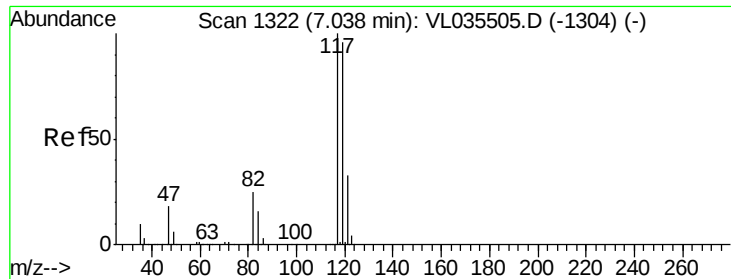
MMDadoda  
 9/17/2020 1:52:23 PM



#34  
 2-Butanone  
 Concen: 11.244 ppbv  
 RT: 5.24 min Scan# 763  
 Delta R.T. -0.00 min  
 Lab File: VL035629.D  
 Acq: 16 Sep 2020 14:28

Tgt Ion: 43 Resp: 1508855  
 Ion Ratio Lower Upper  
 43 100  
 72 34.2 27.7 41.5





#35

Carbon Tetrachloride

Concen: 11.371 ppbv

RT: 7.01 min Scan# 1315

Delta R.T. -0.00 min

Lab File: VL035629.D

Acq: 16 Sep 2020 14:28

Instrument :

MSVOA\_L

ClientSampleId :

VL0916ABS01

Tot Ion:117 Resp: 2584256

Ion Ratio Lower Upper

117 100

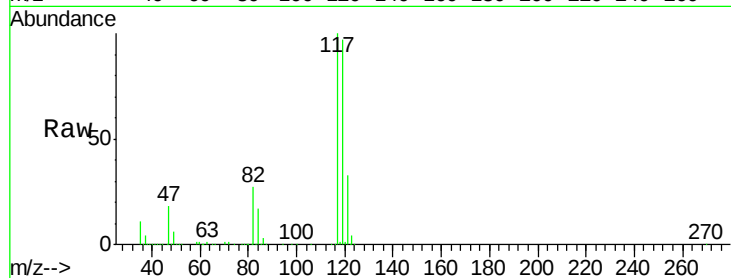
119 96.8 77.2 115.8

121 32.9 26.1 39.1

Manual Integrations  
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MMDadoda

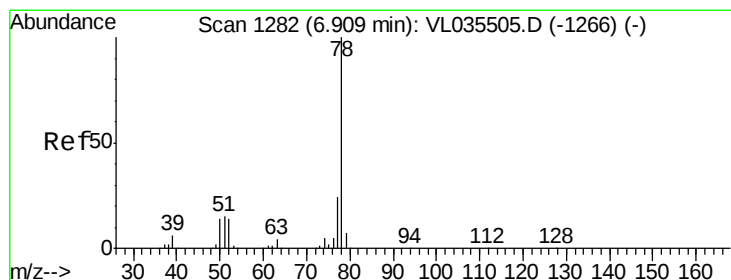
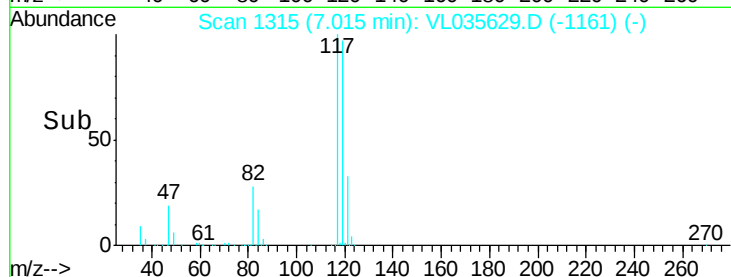
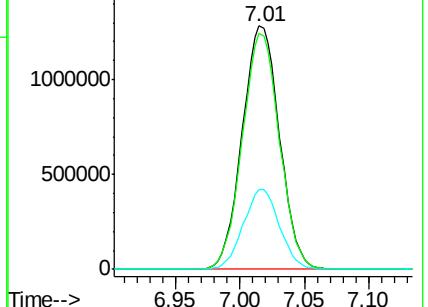
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 10.950 ppbv

RT: 6.89 min Scan# 1276

Delta R.T. -0.00 min

Lab File: VL035629.D

Acq: 16 Sep 2020 14:28

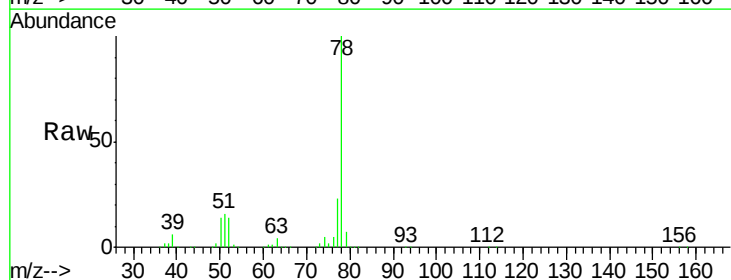
Tgt Ion: 78 Resp: 3205181

Ion Ratio Lower Upper

78 100

77 23.3 19.3 28.9

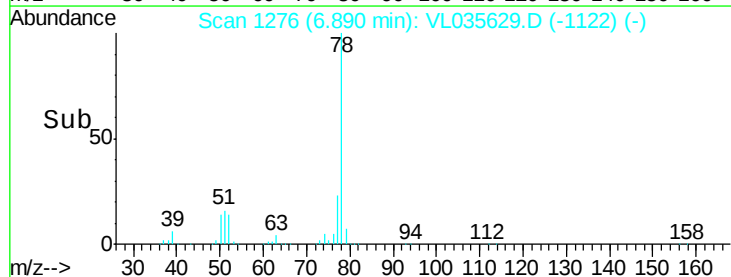
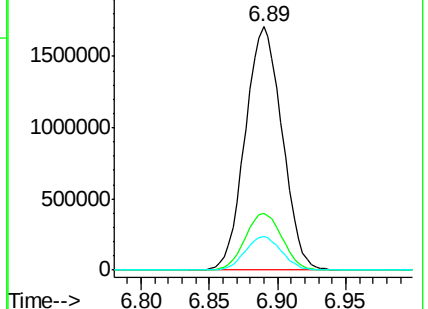
50 13.8 11.0 16.6

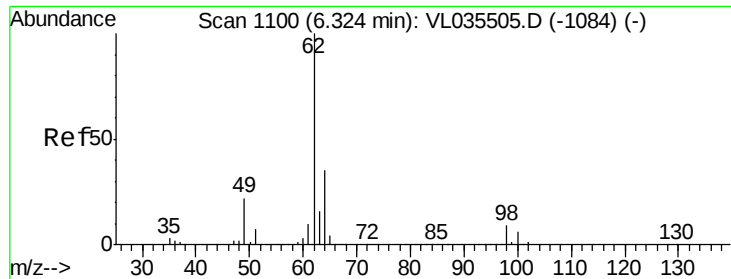


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





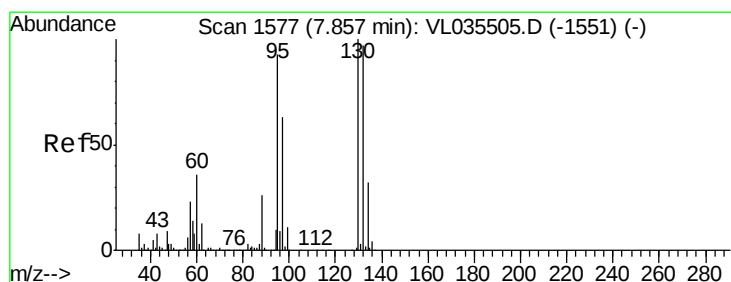
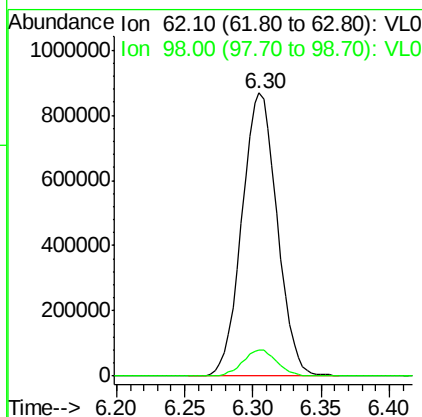
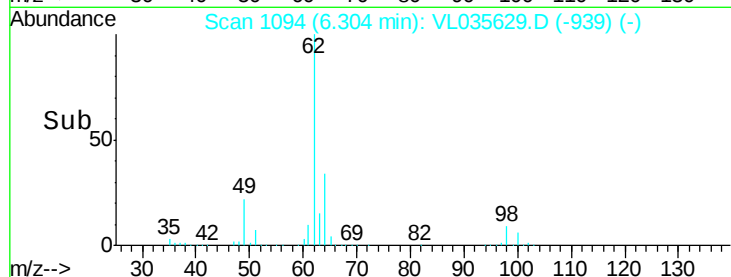
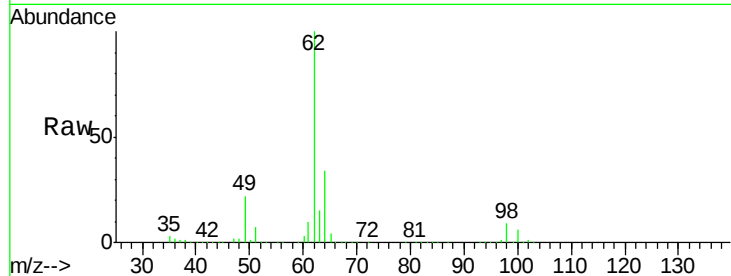
#37  
 1,2-Dichloroethane  
 Concen: 11.160 ppbv  
 RT: 6.30 min Scan# 1094  
 Delta R.T. -0.00 min  
 Lab File: VL035629.D  
 Acq: 16 Sep 2020 14:28

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0916ABS01

Tot Ion: 62 Resp: 1557320  
 Ion Ratio Lower Upper  
 62 100  
 98 9.0 7.4 11.0

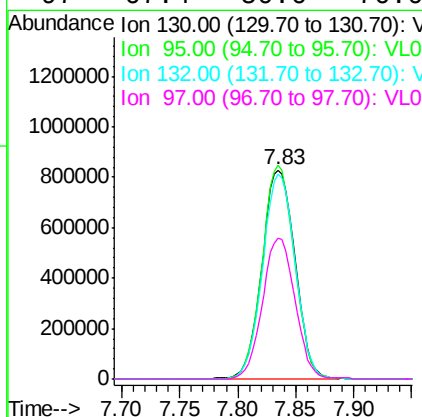
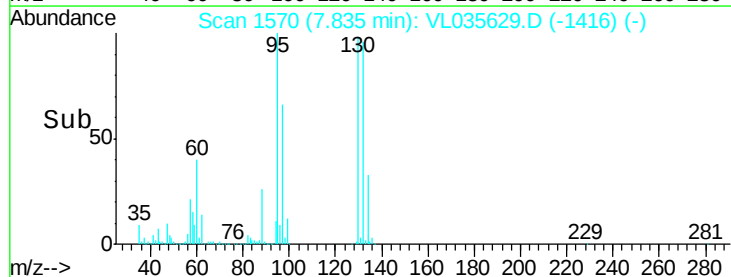
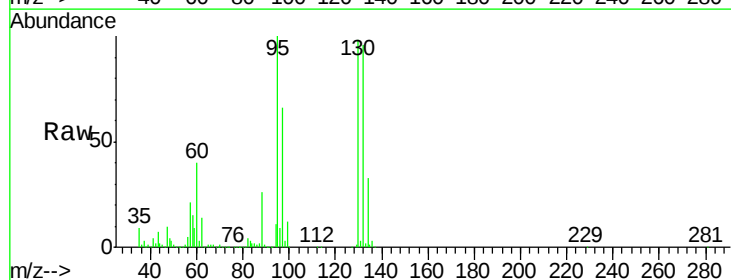
Manual Integrations  
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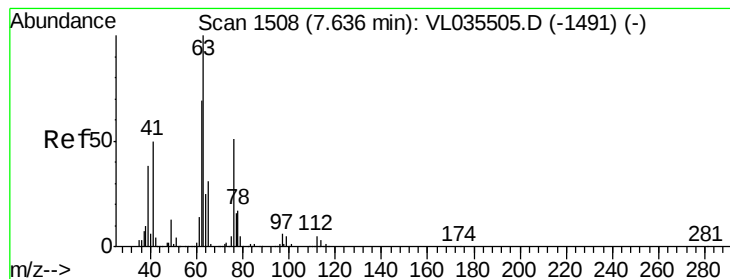
MMDadoda  
 9/17/2020 1:52:23 PM



#38  
 Trichloroethene  
 Concen: 9.661 ppbv  
 RT: 7.83 min Scan# 1570  
 Delta R.T. -0.00 min  
 Lab File: VL035629.D  
 Acq: 16 Sep 2020 14:28

Tgt Ion:130 Resp: 1642586  
 Ion Ratio Lower Upper  
 130 100  
 95 102.3 74.6 112.0  
 132 98.1 77.6 116.4  
 97 67.4 50.6 76.0





#39

1,2-Dichloropropane

Concen: 10.984 ppbv

RT: 7.61 min Scan# 1501

Delta R.T. -0.00 min

Lab File: VL035629.D

Acq: 16 Sep 2020 14:28

Instrument :

MSVOA\_L

ClientSampleId :

VL0916ABS01

Tot Ion: 63 Resp: 1086106

Ion Ratio Lower Upper

63 100

41 52.7 40.0 60.0

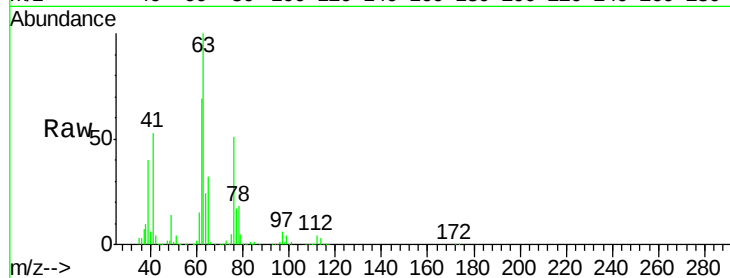
62 68.8 55.4 83.0

Manual Integrations

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MMDadoda

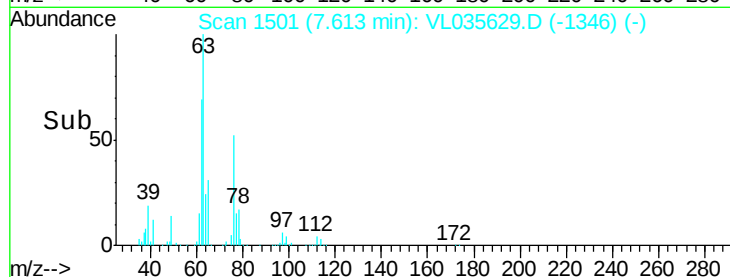
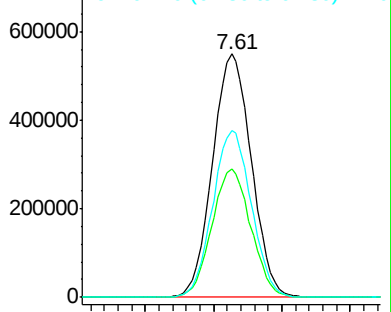
9/17/2020 1:52:23 PM



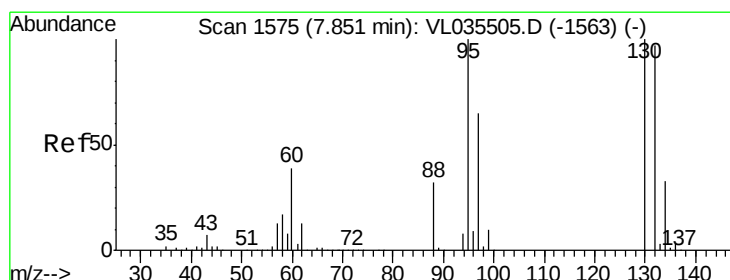
Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



Time-->



#40

1,4-Dioxane

Concen: 10.860 ppbv

RT: 7.83 min Scan# 1568

Delta R.T. -0.00 min

Lab File: VL035629.D

Acq: 16 Sep 2020 14:28

Tgt Ion: 88 Resp: 536396

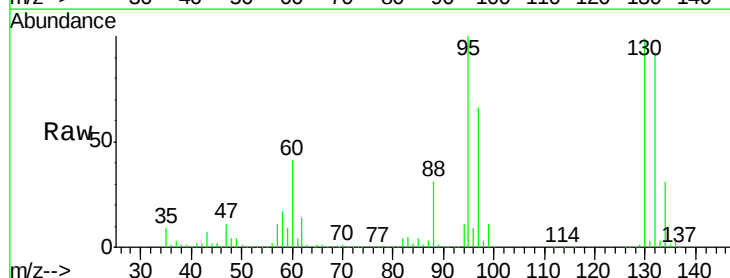
Ion Ratio Lower Upper

88 100

58 91.5 68.7 103.1

43 144.3 104.3 156.5

57 779.8 560.7 841.1

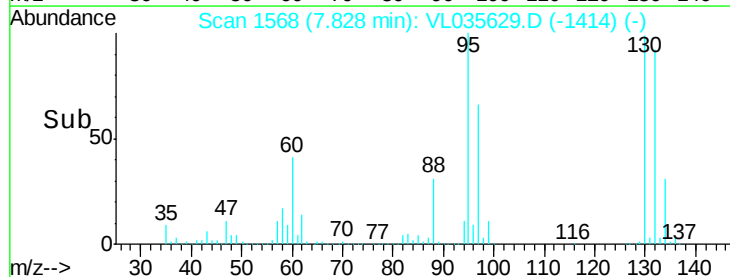
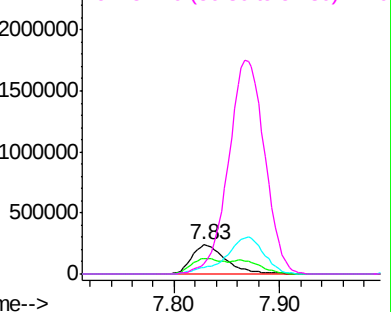


Abundance Ion 88.10 (87.80 to 88.80): VL0

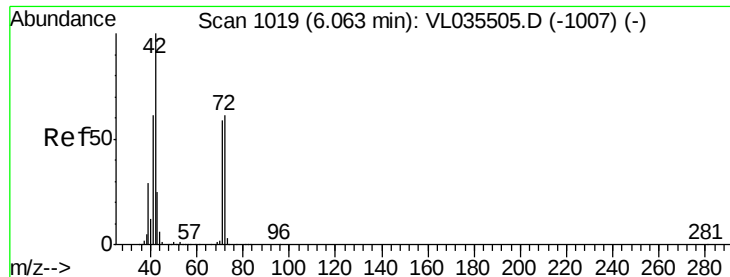
Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



Time-->



#41

Tetrahydrofuran

Concen: 11.850 ppbv

RT: 6.04 min Scan# 1013

Delta R.T. -0.00 min

Lab File: VL035629.D

Acq: 16 Sep 2020 14:28

Instrument :

MSVOA\_L

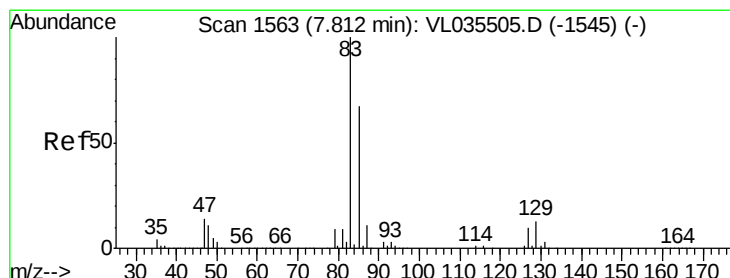
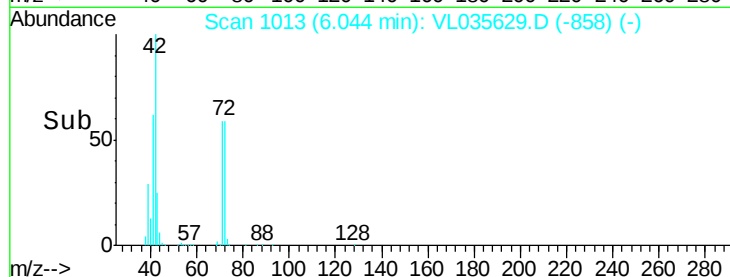
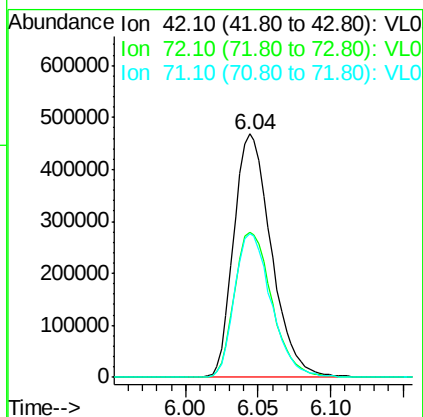
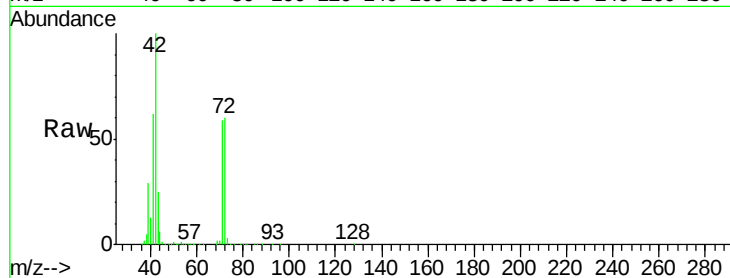
ClientSampleId :

VL0916ABS01

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 42    | Resp: | 843249 |
| Ion      | Ratio | Lower | Upper  |
| 42       | 100   |       |        |
| 72       | 60.0  | 48.6  | 73.0   |
| 71       | 58.4  | 46.1  | 69.1   |

Manual Integrations  
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#42

Bromodichloromethane

Concen: 11.830 ppbv

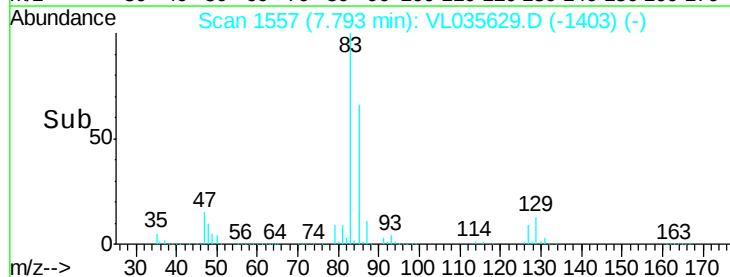
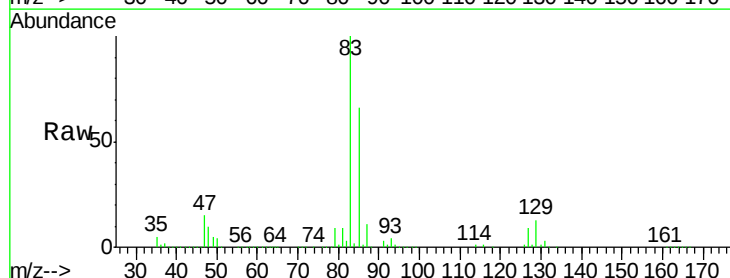
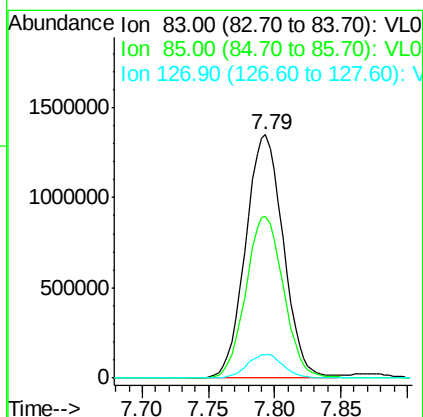
RT: 7.79 min Scan# 1557

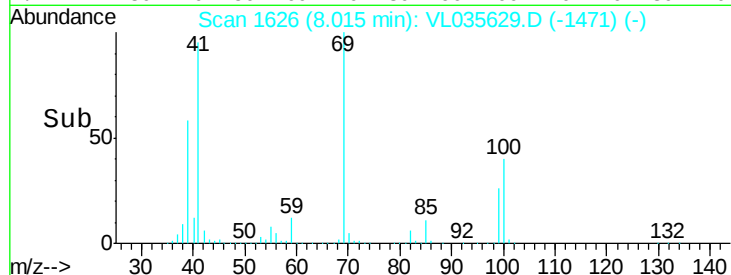
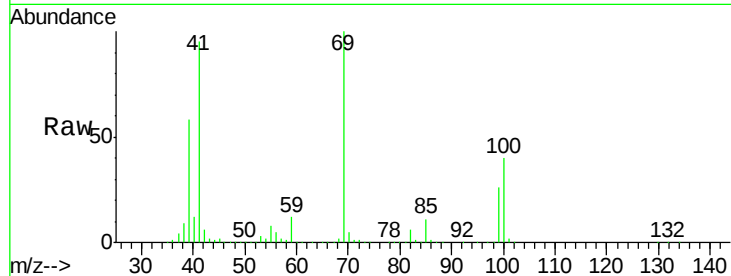
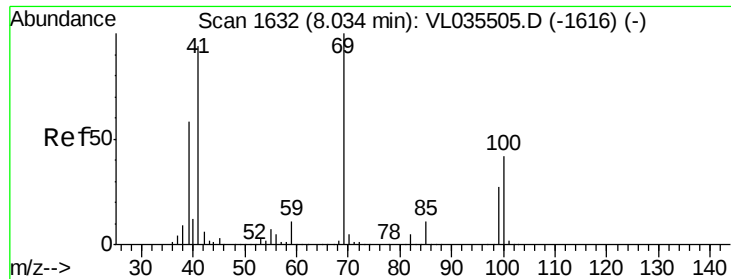
Delta R.T. -0.00 min

Lab File: VL035629.D

Acq: 16 Sep 2020 14:28

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 83    | Resp: | 2669695 |
| Ion      | Ratio | Lower | Upper   |
| 83       | 100   |       |         |
| 85       | 66.4  | 53.7  | 80.5    |
| 127      | 9.4   | 8.1   | 12.1    |





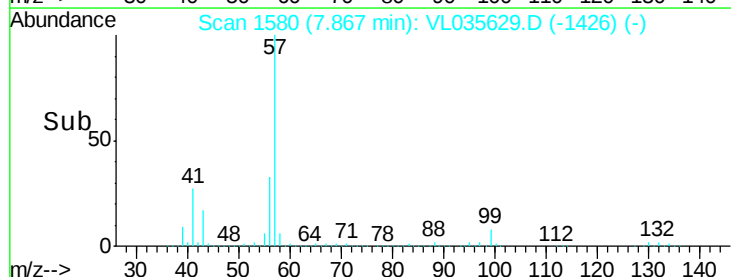
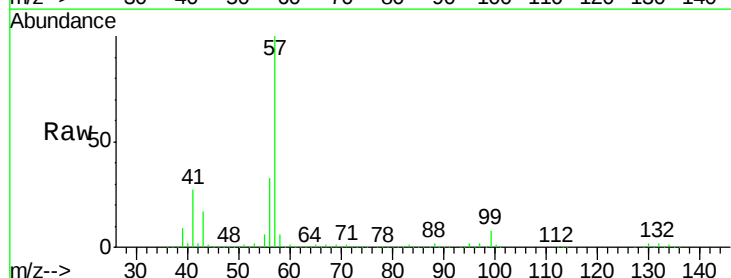
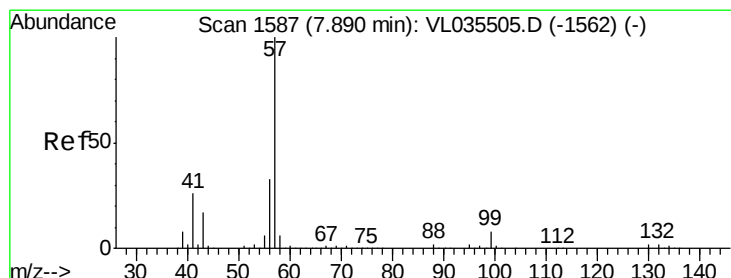
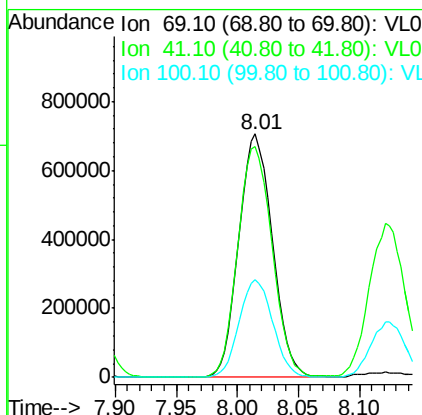
#43  
Methvl Methacrylate  
Concen: 11.921 ppbv  
RT: 8.01 min Scan# 1626  
Delta R.T. -0.00 min  
Lab File: VL035629.D  
Acq: 16 Sep 2020 14:28

Tot Ion: 69 Resp: 1349173  
Ion Ratio Lower Upper  
69 100  
41 96.8 76.6 114.8  
100 40.1 33.8 50.6

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0916ABS01

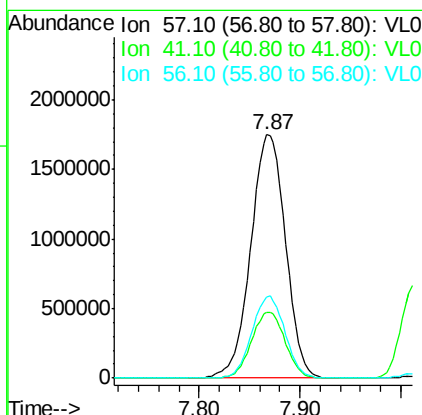
Manual Integrations  
APPROVED

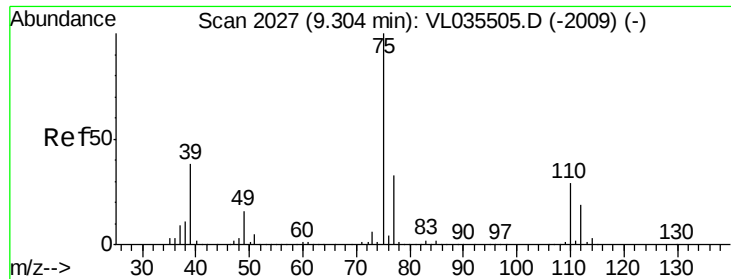
MMDadoda  
9/17/2020 1:52:23 PM



#44  
2,2,4-Trimethylpentane  
Concen: 10.853 ppbv  
RT: 7.87 min Scan# 1580  
Delta R.T. -0.00 min  
Lab File: VL035629.D  
Acq: 16 Sep 2020 14:28

Tgt Ion: 57 Resp: 4179664  
Ion Ratio Lower Upper  
57 100  
41 26.2 20.5 30.7  
56 32.0 25.3 37.9





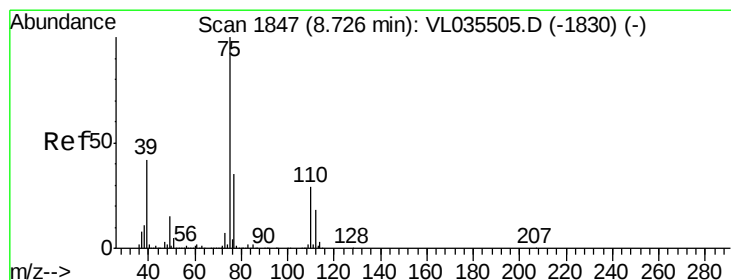
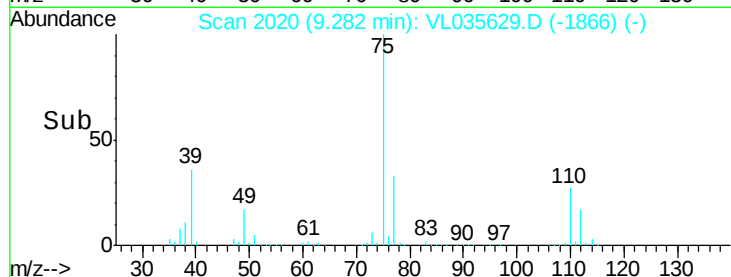
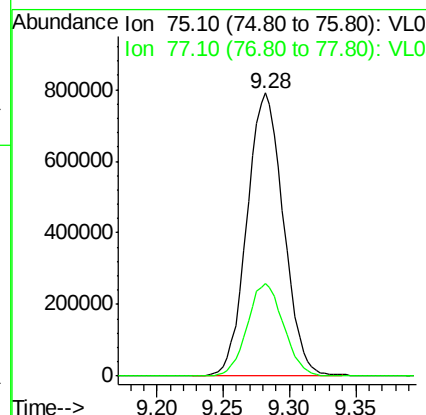
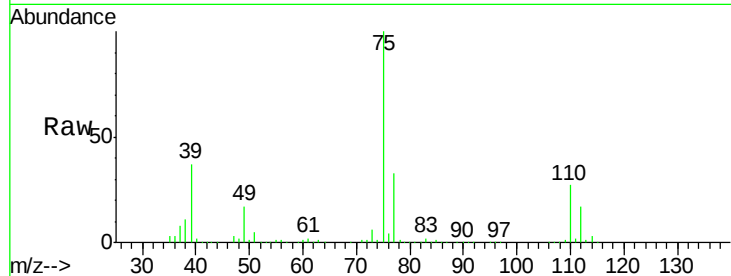
#45  
t-1,3-Dichloropropene  
Concen: 13.170 ppbv  
RT: 9.28 min Scan# 2020  
Delta R.T. -0.00 min  
Lab File: VL035629.D  
Acq: 16 Sep 2020 14:28

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0916ABS01

Tot Ion: 75 Resp: 1509998  
Ion Ratio Lower Upper  
75 100  
77 32.6 26.5 39.7

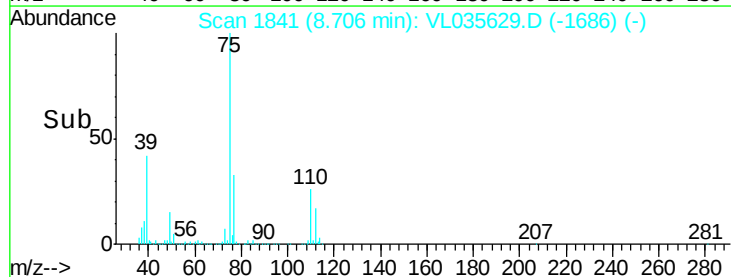
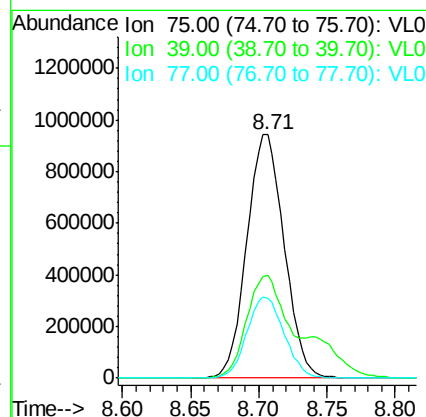
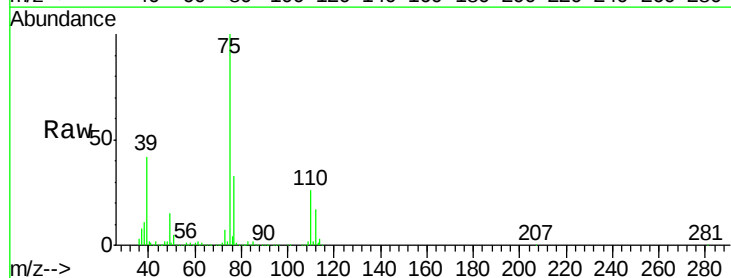
Manual Integrations  
APPROVED

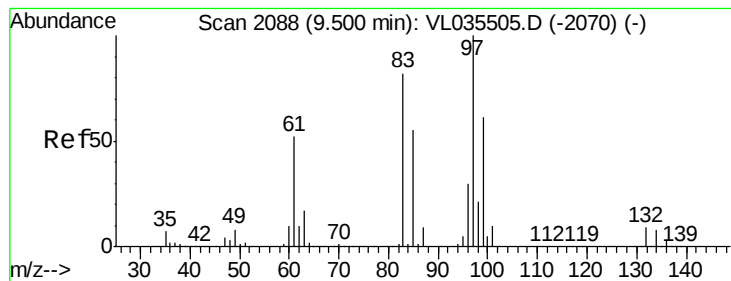
MMDadoda  
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#46  
cis-1,3-Dichloropropene  
Concen: 12.590 ppbv  
RT: 8.71 min Scan# 1841  
Delta R.T. -0.00 min  
Lab File: VL035629.D  
Acq: 16 Sep 2020 14:28

Tgt Ion: 75 Resp: 1792265  
Ion Ratio Lower Upper  
75 100  
39 42.0 33.7 50.5  
77 32.9 27.8 41.6





#47

1,1,2-Trichloroethane

Concen: 10.910 ppbv

RT: 9.48 min Scan# 2081

Delta R.T. -0.00 min

Lab File: VL035629.D

Acq: 16 Sep 2020 14:28

Instrument :

MSVOA\_L

ClientSampleId :

VL0916ABS01

Tot Ion: 97 Resp: 1591814

Ion Ratio Lower Upper

97 100

83 82.9 65.4 98.2

85 55.2 43.7 65.5

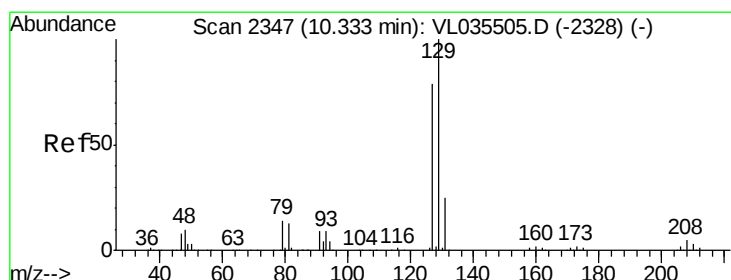
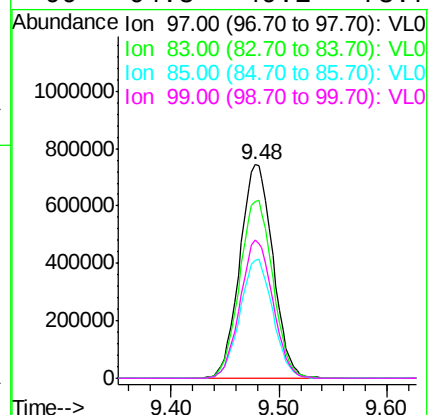
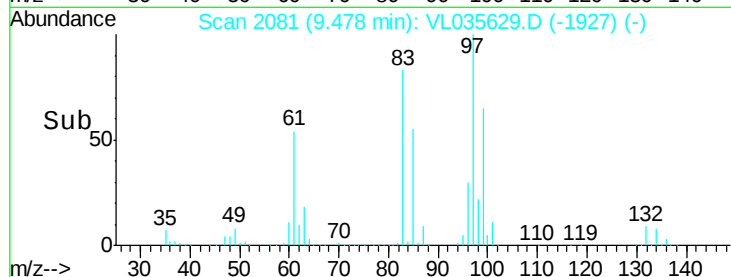
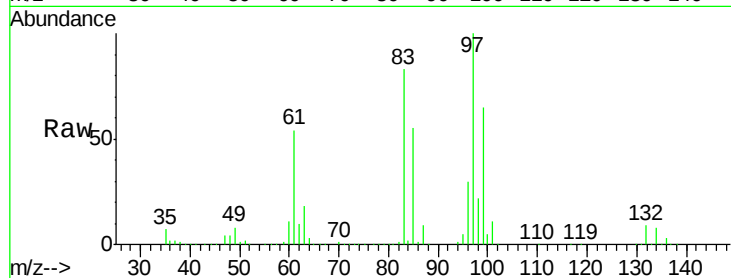
99 64.8 49.1 73.7

Manual Integrations

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#48

Dibromochloromethane

Concen: 11.791 ppbv

RT: 10.31 min Scan# 2339

Delta R.T. -0.00 min

Lab File: VL035629.D

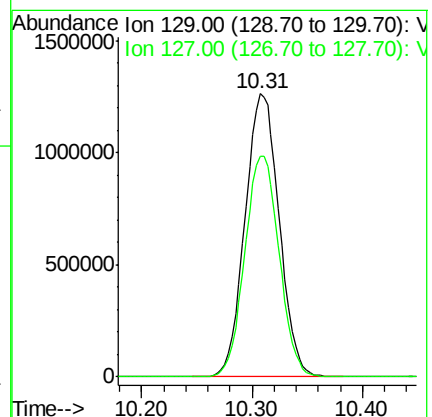
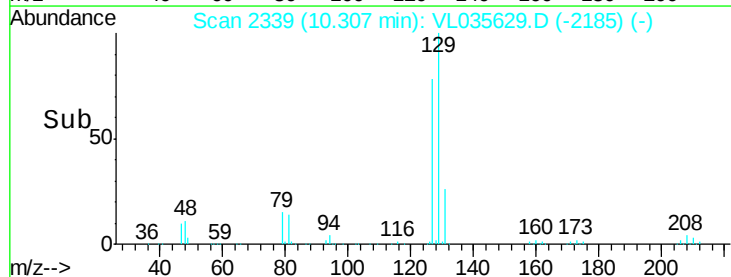
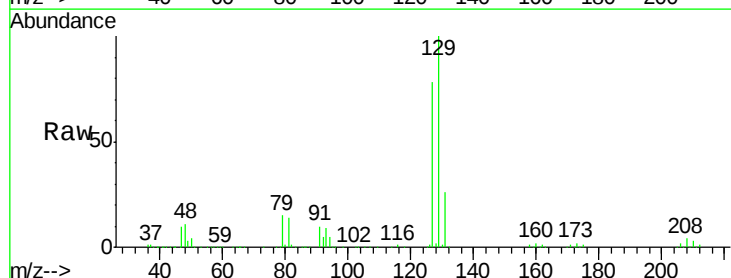
Acq: 16 Sep 2020 14:28

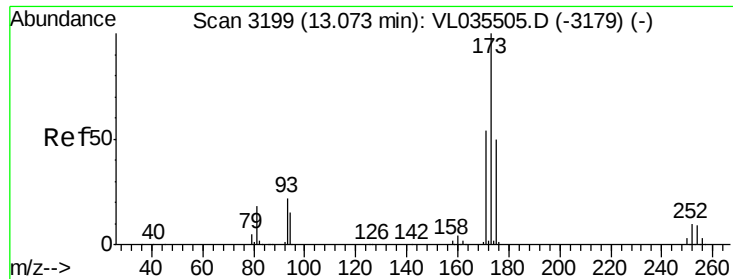
Tgt Ion: 129 Resp: 2707520

Ion Ratio Lower Upper

129 100

127 78.6 39.3 117.8





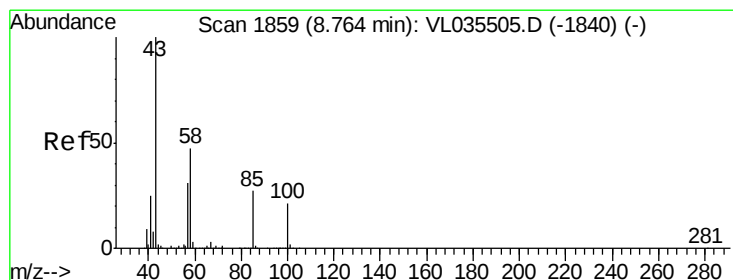
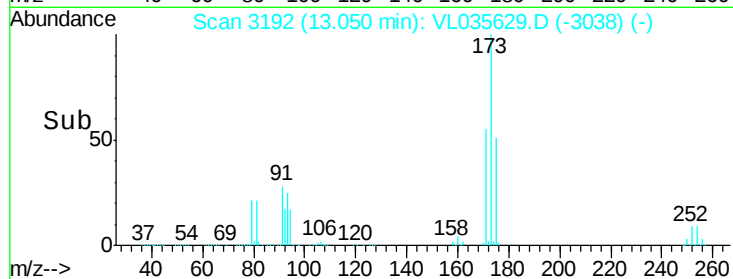
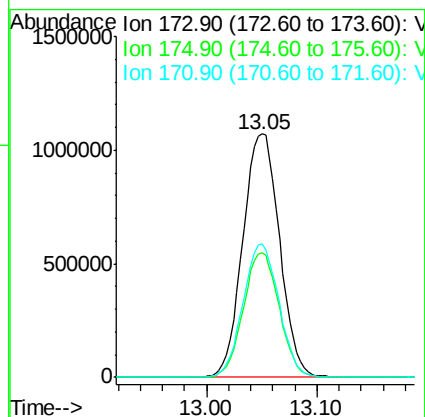
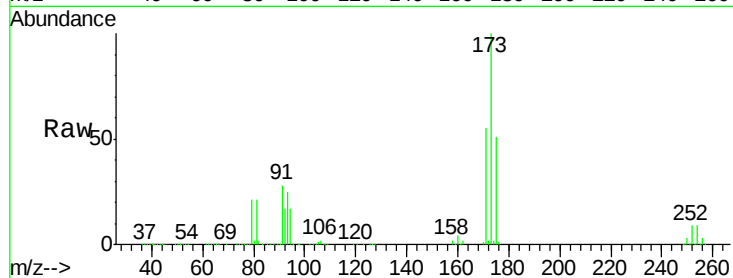
#49  
Bromoform  
Concen: 11.939 ppbv  
RT: 13.05 min Scan# 3192  
Delta R.T. -0.00 min  
Lab File: VL035629.D  
Acq: 16 Sep 2020 14:28

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0916ABS01

Tot Ion:173 Resp: 2484593  
Ion Ratio Lower Upper  
173 100  
175 50.0 39.8 59.8  
171 53.5 42.4 63.6

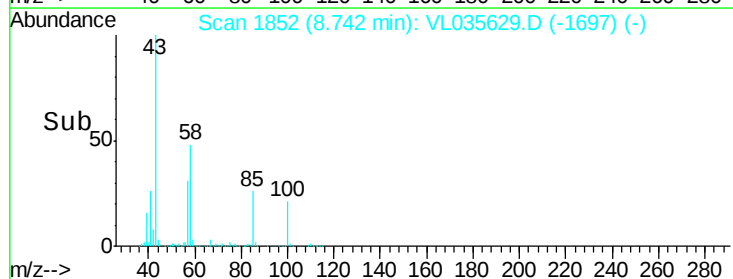
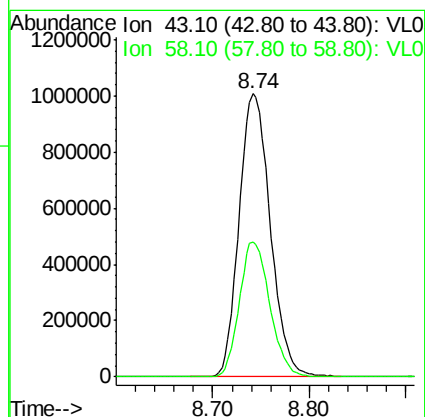
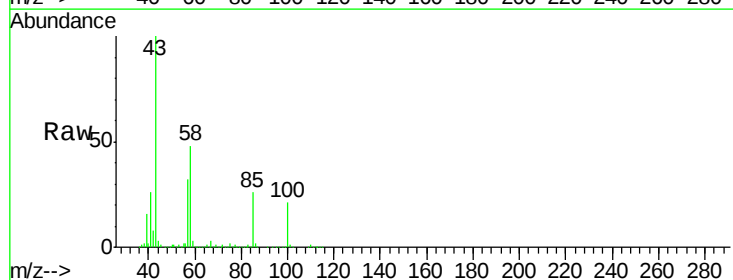
Manual Integrations  
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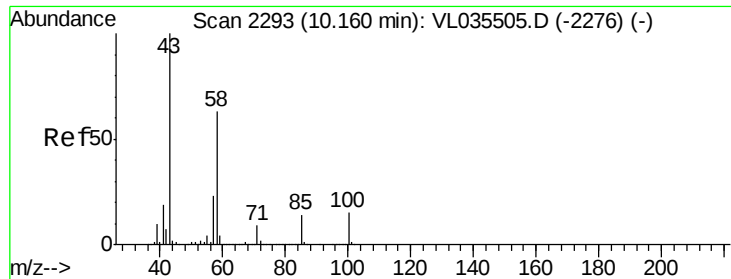
MMDadoda  
9/17/2020 1:52:23 PM



#50  
4-Methyl-2-Pentanone  
Concen: 11.637 ppbv  
RT: 8.74 min Scan# 1852  
Delta R.T. -0.00 min  
Lab File: VL035629.D  
Acq: 16 Sep 2020 14:28

Tgt Ion: 43 Resp: 2261214  
Ion Ratio Lower Upper  
43 100  
58 46.8 37.4 56.0





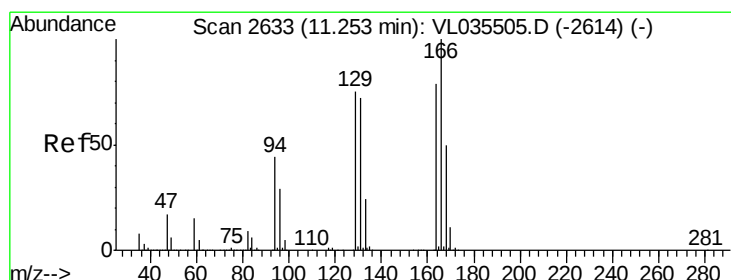
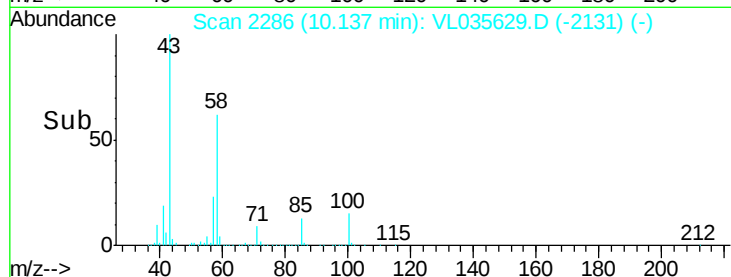
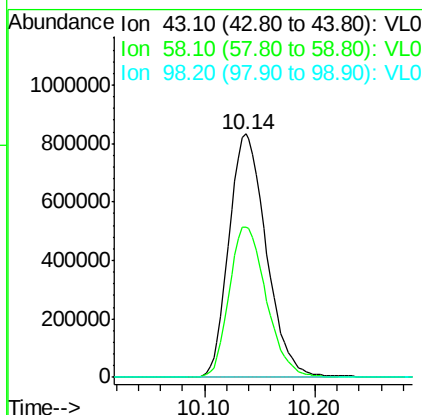
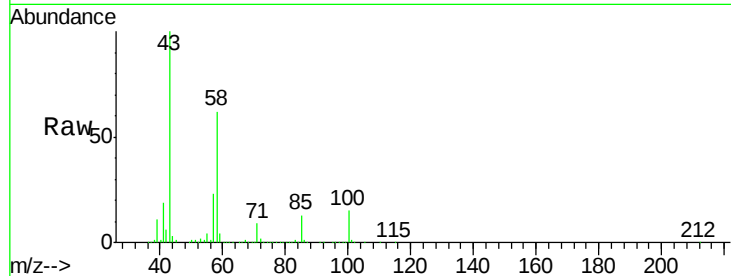
#51  
2-Hexanone  
Concen: 12.250 ppbv  
RT: 10.14 min Scan# 2286  
Delta R.T. -0.00 min  
Lab File: VL035629.D  
Acq: 16 Sep 2020 14:28

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0916ABS01

Tot Ion: 43 Resp: 1952625  
Ion Ratio Lower Upper  
43 100  
58 61.9 50.2 75.4  
98 0.6 0.4 0.6

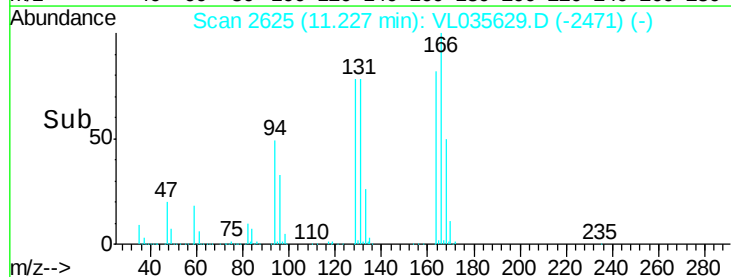
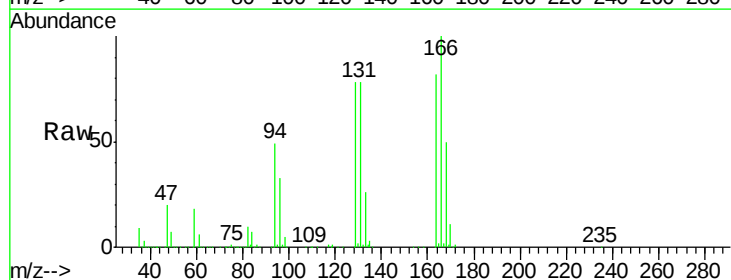
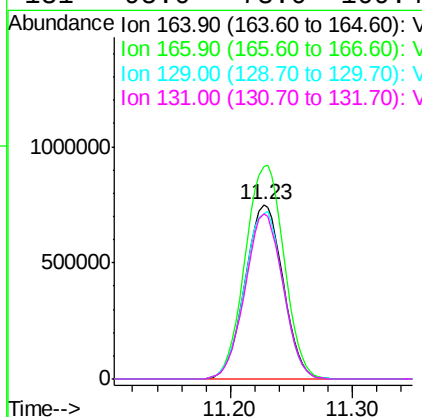
Manual Integrations  
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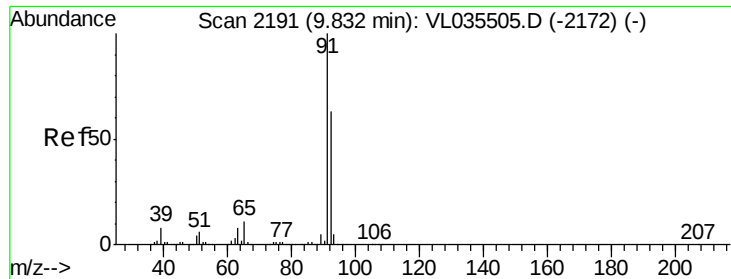
MMDadoda  
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#52  
Tetrachloroethene  
Concen: 9.412 ppbv  
RT: 11.23 min Scan# 2625  
Delta R.T. -0.00 min  
Lab File: VL035629.D  
Acq: 16 Sep 2020 14:28

Tgt Ion: 164 Resp: 1609338  
Ion Ratio Lower Upper  
164 100  
166 122.0 100.9 151.3  
129 94.7 75.3 112.9  
131 95.0 73.0 109.4





#53

Toluene

Concen: 11.051 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. -0.00 min

Lab File: VL035629.D

Acq: 16 Sep 2020 14:28

Instrument :

MSVOA\_L

ClientSampleId :

VL0916ABS01

Tot Ion: 91 Resp: 4067784

Ion Ratio Lower Upper

91 100

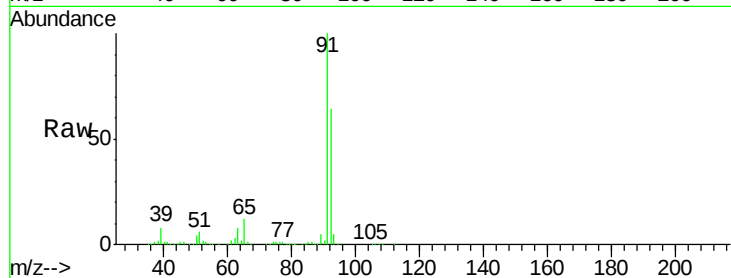
92 62.5 49.8 74.8

Manual Integrations

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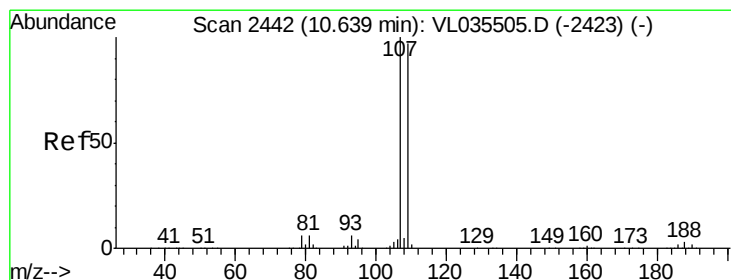
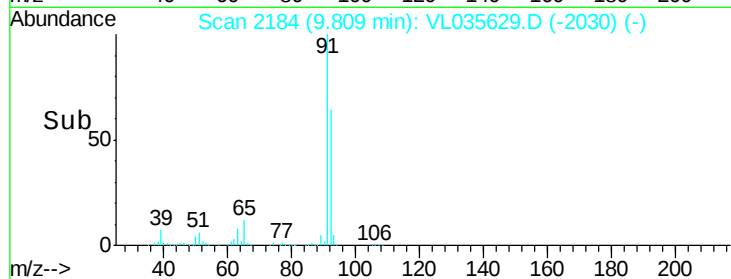
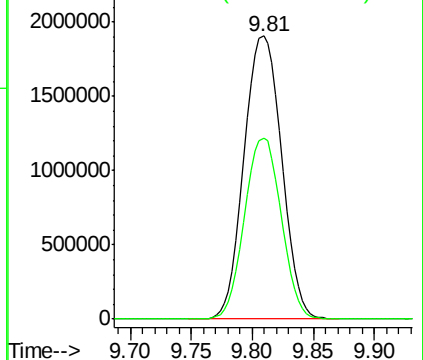
MMDadoda

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 10.891 ppbv

RT: 10.62 min Scan# 2435

Delta R.T. -0.00 min

Lab File: VL035629.D

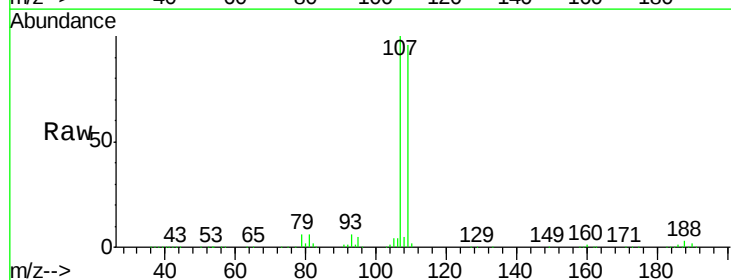
Acq: 16 Sep 2020 14:28

Tgt Ion: 107 Resp: 2510719

Ion Ratio Lower Upper

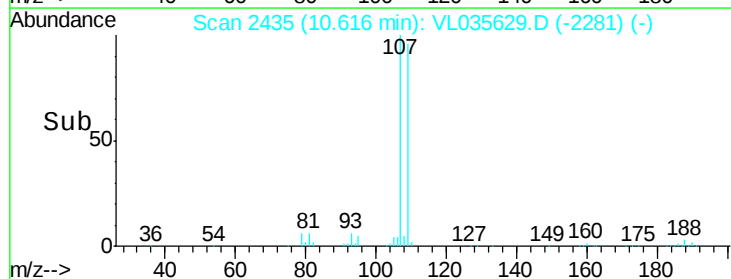
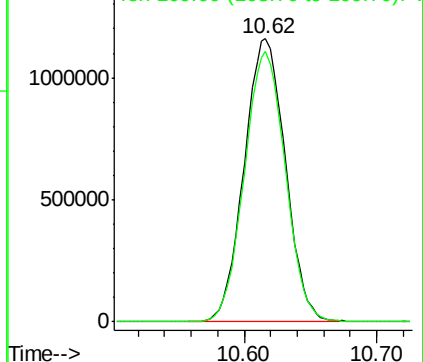
107 100

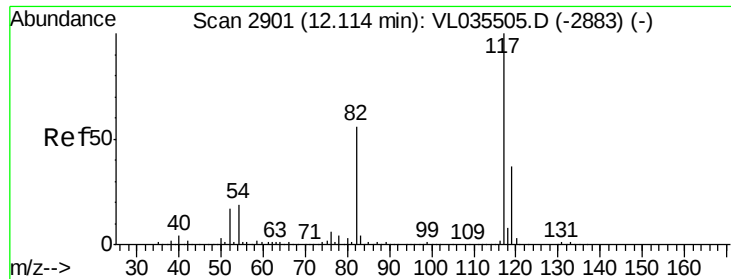
109 95.7 77.8 116.8



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





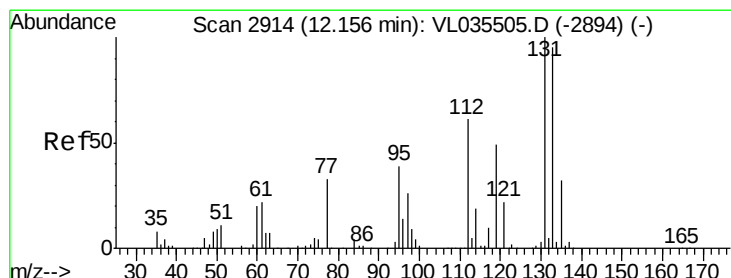
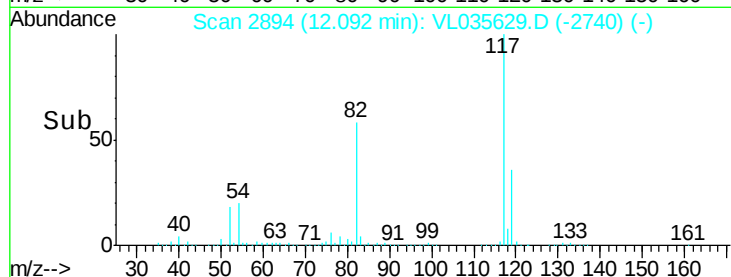
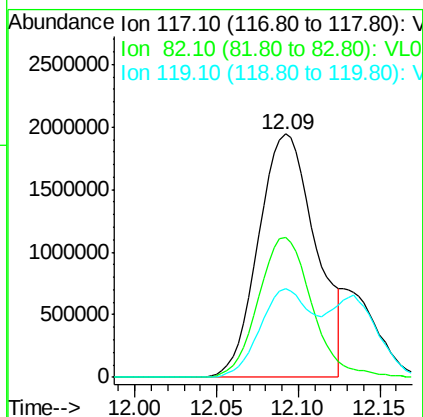
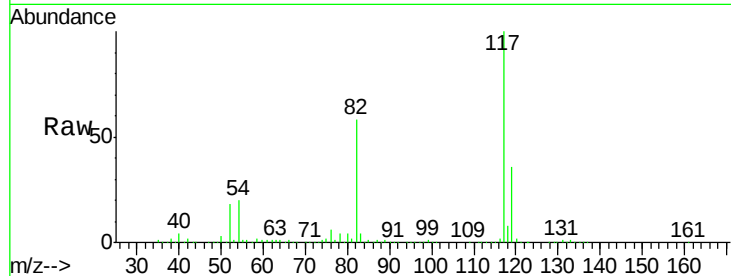
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv m  
RT: 12.09 min Scan# 2894  
Delta R.T. -0.00 min  
Lab File: VL035629.D  
Acq: 16 Sep 2020 14:28

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0916ABS01

Tot Ion:117 Resp: 4722184  
Ion Ratio Lower Upper  
117 100  
82 54.4 41.6 62.4  
119 33.7 29.3 43.9

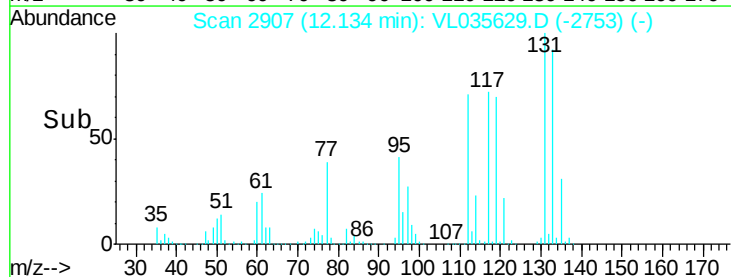
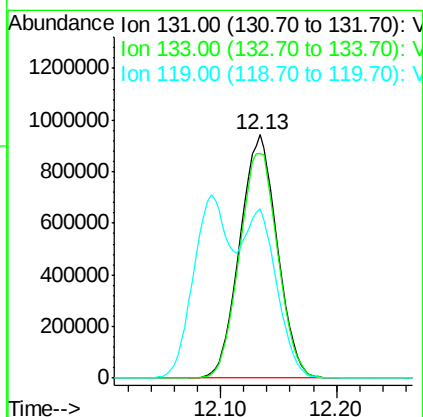
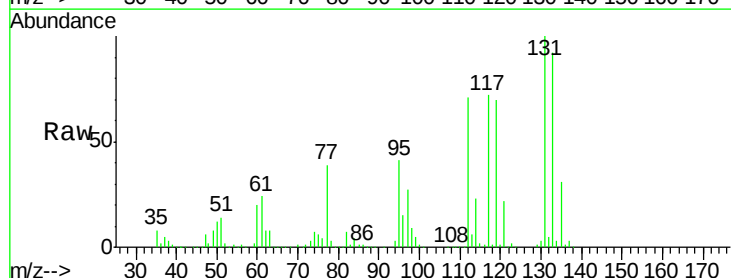
Manual Integrations  
APPROVED

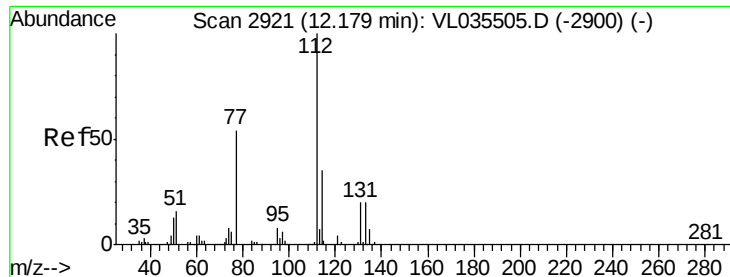
MMDadoda  
9/17/2020 1:52:23 PM



#56  
1,1,1,2-Tetrachloroethane  
Concen: 10.964 ppbv  
RT: 12.13 min Scan# 2907  
Delta R.T. -0.00 min  
Lab File: VL035629.D  
Acq: 16 Sep 2020 14:28

Tgt Ion:131 Resp: 2106656  
Ion Ratio Lower Upper  
131 100  
133 95.6 76.6 115.0  
119 71.5 51.6 77.4





#57

Chlorobenzene

Concen: 9.960 ppbv

RT: 12.15 min Scan# 2913

Delta R.T. -0.00 min

Lab File: VL035629.D

Acq: 16 Sep 2020 14:28

Instrument :

MSVOA\_L

ClientSampleId :

VL0916ABS01

Tot Ion: 112 Resp: 3461350

Ion Ratio Lower Upper

112 100

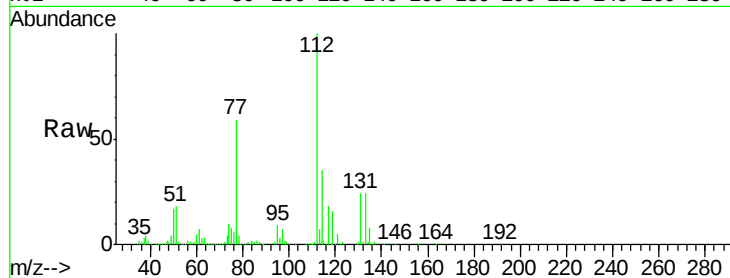
77 58.9 44.2 66.4

114 34.9 31.6 38.6

Manual Integrations  
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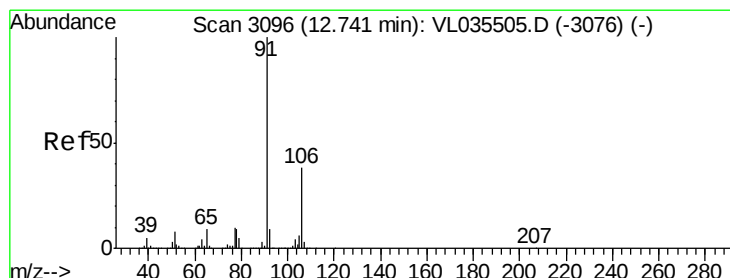
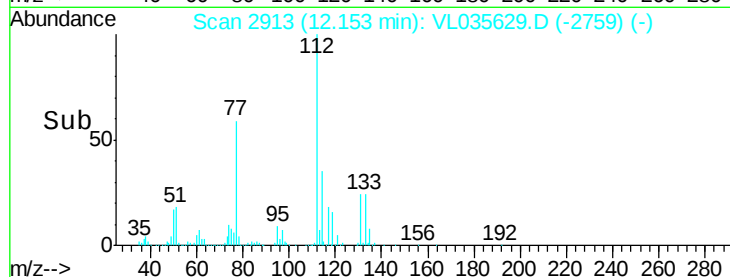
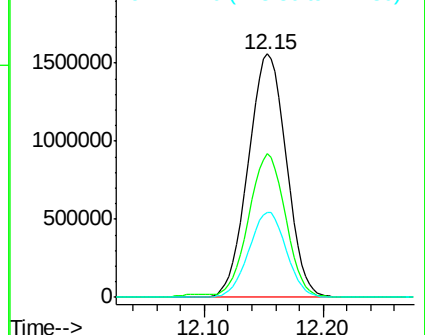
9/17/2020 1:52:23 PM



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.911 ppbv

RT: 12.72 min Scan# 3089

Delta R.T. -0.00 min

Lab File: VL035629.D

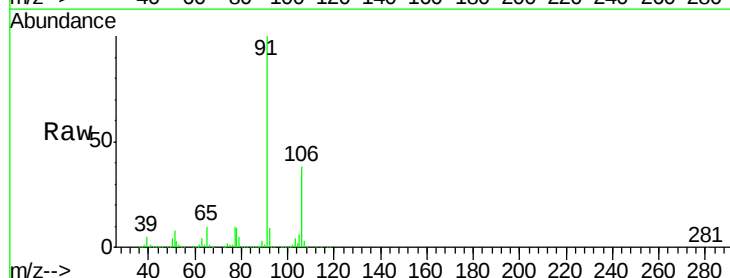
Acq: 16 Sep 2020 14:28

Tgt Ion: 91 Resp: 5313228

Ion Ratio Lower Upper

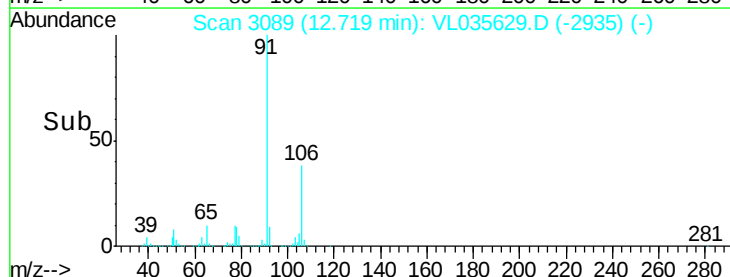
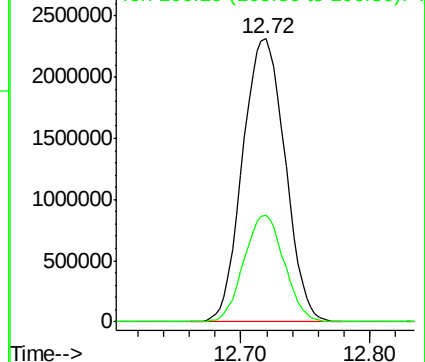
91 100

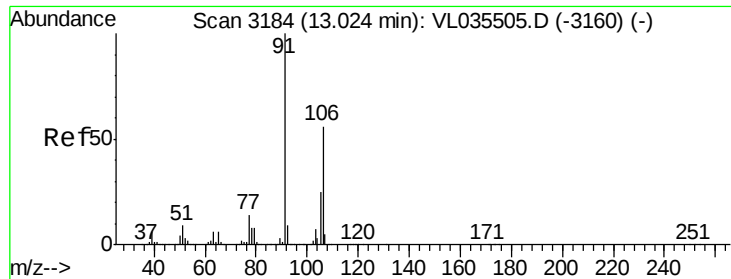
106 37.8 30.3 45.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





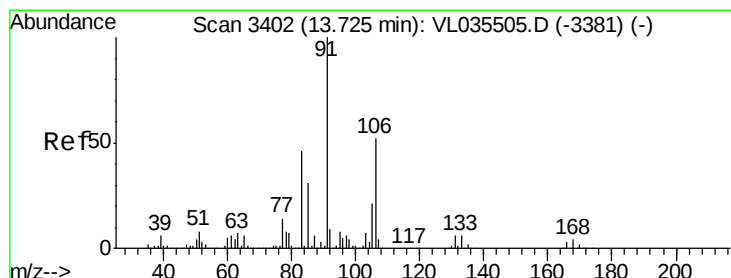
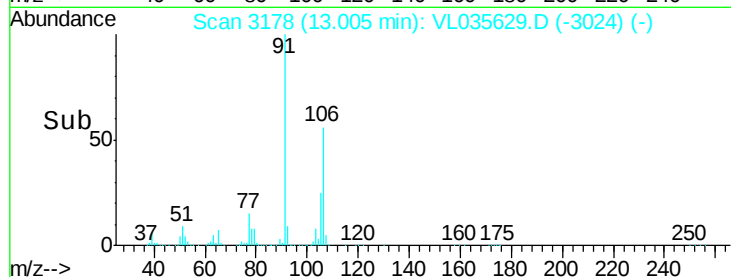
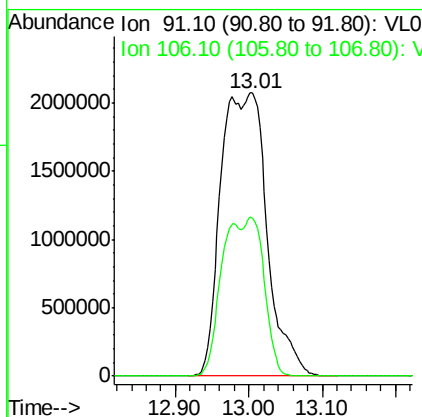
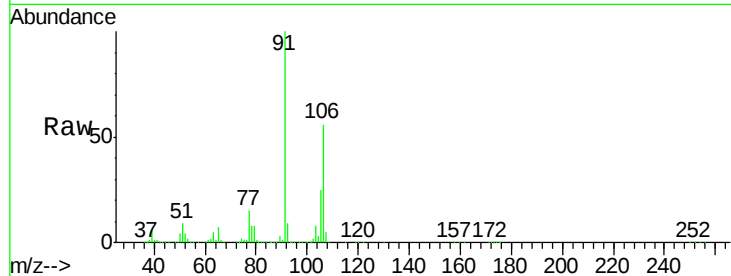
#59  
m/p-Xylene  
Concen: 22.238 ppbv m  
RT: 13.01 min Scan# 3178  
Delta R.T. -0.00 min  
Lab File: VL035629.D  
Acq: 16 Sep 2020 14:28

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0916ABS01

Tot Ion: 91 Resp: 9048468  
Ion Ratio Lower Upper  
91 100  
106 50.7 43.4 65.2

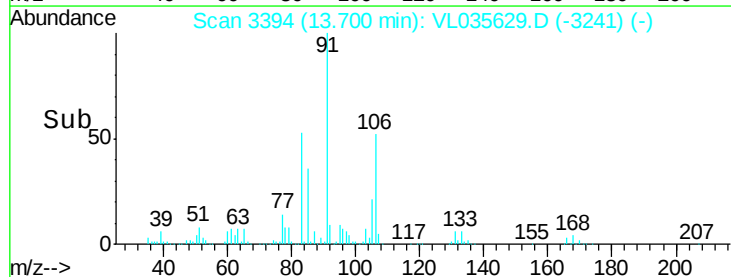
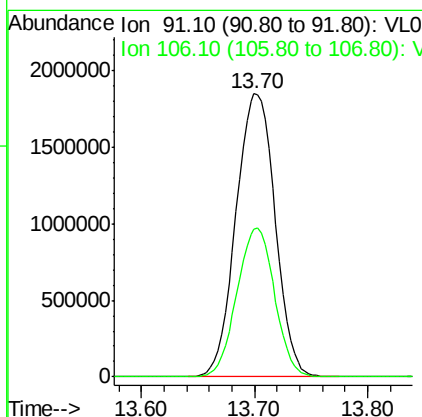
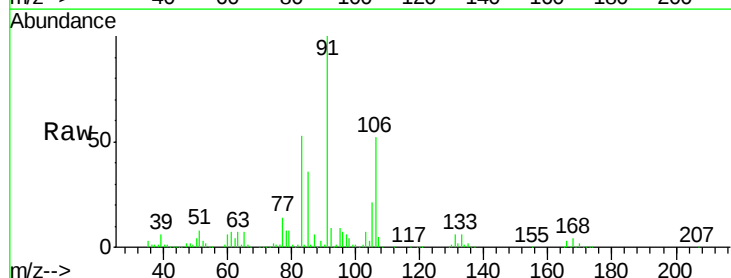
Manual Integrations  
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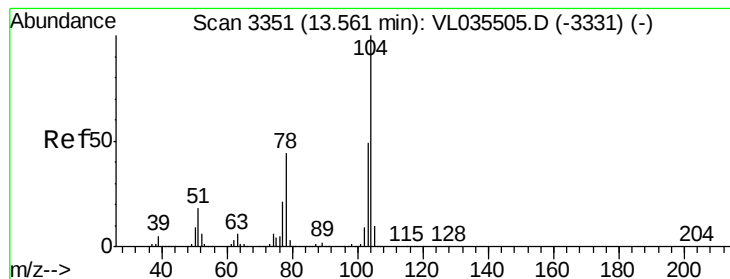
MMDadoda  
9/17/2020 1:52:23 PM



#60  
o-Xylene  
Concen: 10.840 ppbv  
RT: 13.70 min Scan# 3394  
Delta R.T. -0.01 min  
Lab File: VL035629.D  
Acq: 16 Sep 2020 14:28

Tgt Ion: 91 Resp: 4442234  
Ion Ratio Lower Upper  
91 100  
106 50.8 25.8 77.4





#61

Stvrene

Concen: 11.394 ppbv

RT: 13.54 min Scan# 3343

Delta R.T. -0.00 min

Lab File: VL035629.D

Acq: 16 Sep 2020 14:28

Instrument :

MSVOA\_L

ClientSampleId :

VL0916ABS01

Tot Ion:104 Resp: 3571200

Ion Ratio Lower Upper

104 100

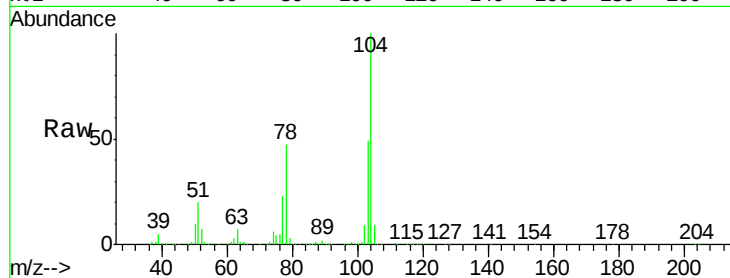
78 45.2 34.8 52.2

103 47.7 38.2 57.4

Manual Integrations  
APPROVED

MMDadoda

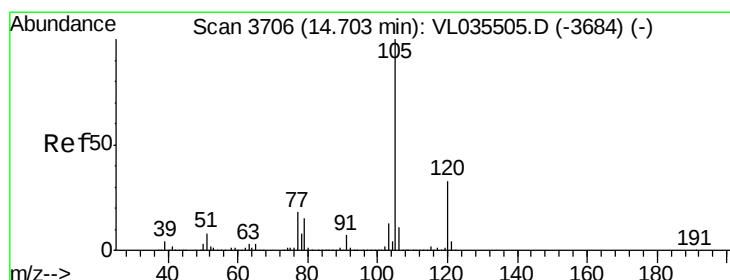
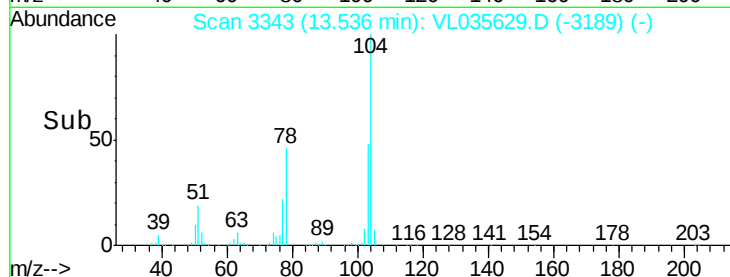
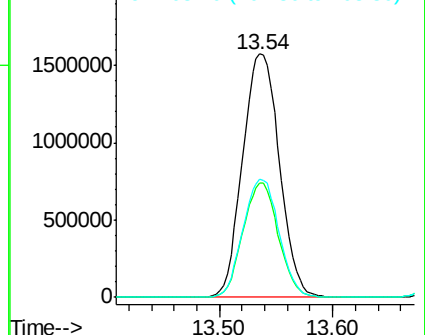
9/17/2020 1:52:23 PM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 10.195 ppbv

RT: 14.68 min Scan# 3698

Delta R.T. -0.00 min

Lab File: VL035629.D

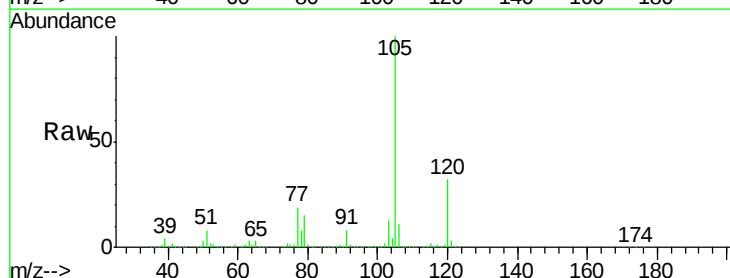
Acq: 16 Sep 2020 14:28

Tgt Ion:105 Resp: 6711117

Ion Ratio Lower Upper

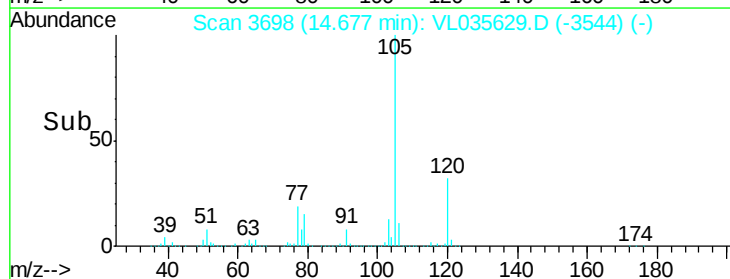
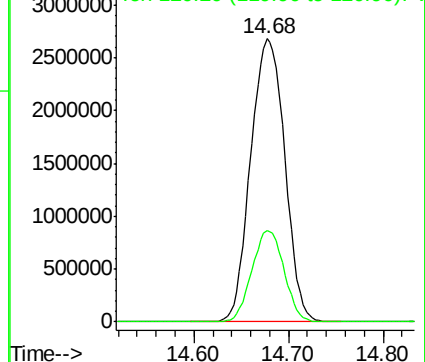
105 100

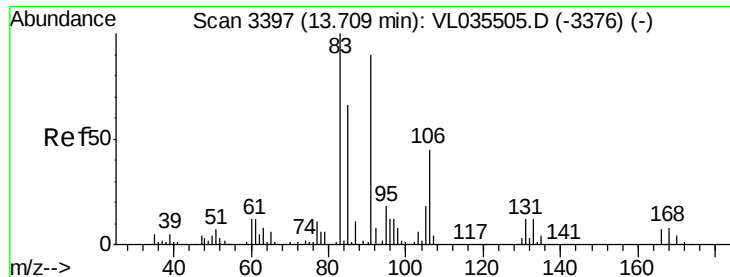
120 30.5 25.0 37.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





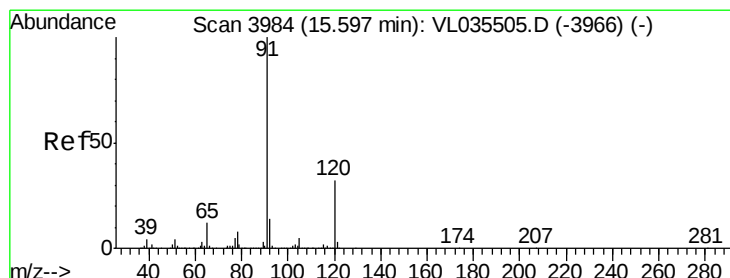
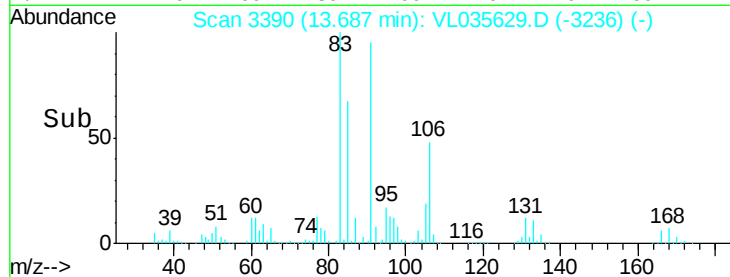
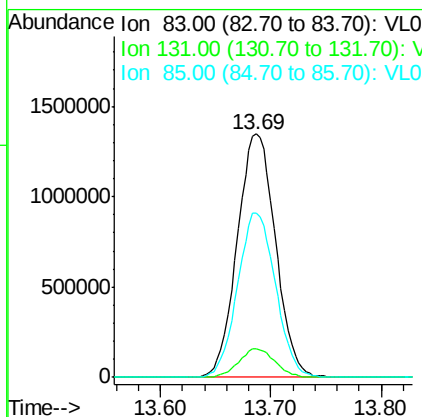
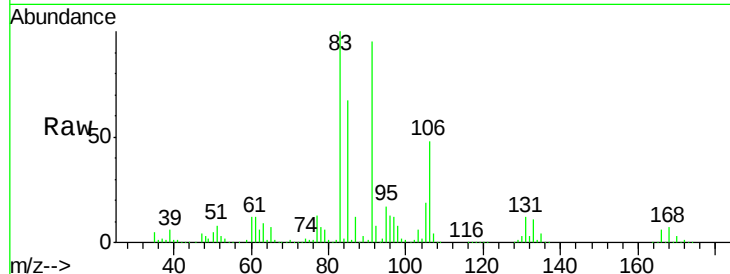
#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 10.200 ppbv  
 RT: 13.69 min Scan# 3390  
 Delta R.T. -0.00 min  
 Lab File: VL035629.D  
 Acq: 16 Sep 2020 14:28

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0916ABS01

Tot Ion: 83 Resp: 3240727  
 Ion Ratio Lower Upper  
 83 100  
 131 11.2 6.0 18.0  
 85 67.1 33.4 100.2

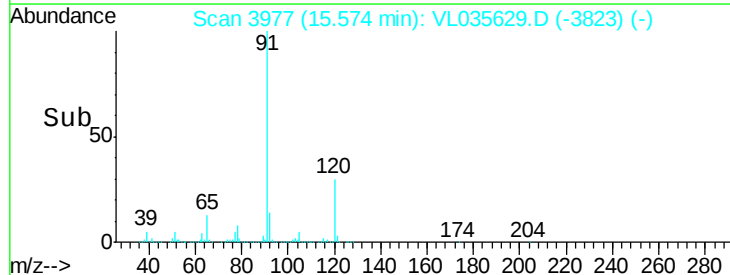
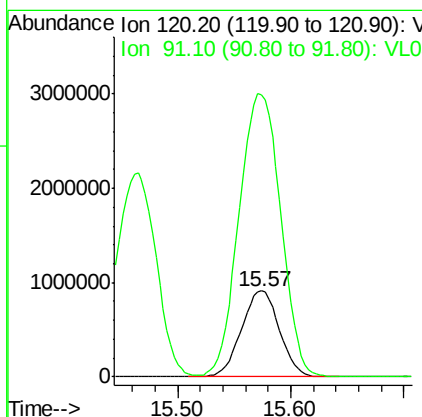
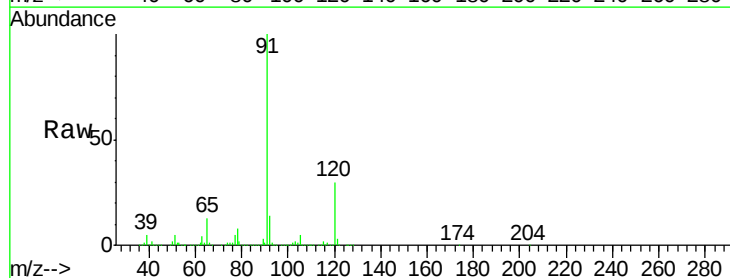
Manual Integrations  
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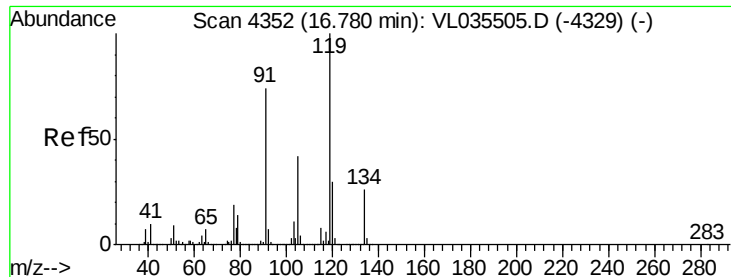
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#64  
 n-propylbenzene  
 Concen: 10.584 ppbv  
 RT: 15.57 min Scan# 3977  
 Delta R.T. -0.00 min  
 Lab File: VL035629.D  
 Acq: 16 Sep 2020 14:28

Tgt Ion:120 Resp: 2126197  
 Ion Ratio Lower Upper  
 120 100  
 91 362.8 279.4 419.0





#65

tert-Butylbenzene

Concen: 10.360 ppbv

RT: 16.76 min Scan# 4345

Delta R.T. -0.00 min

Lab File: VL035629.D

Acq: 16 Sep 2020 14:28

Instrument :

MSVOA\_L

ClientSampleId :

VL0916ABS01

Tot Ion:119 Resp: 6339546

Ion Ratio Lower Upper

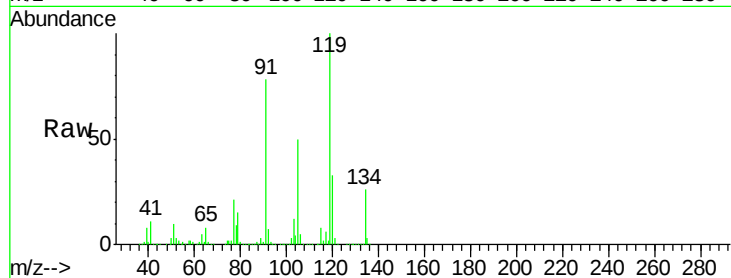
119 100

91 76.6 58.6 87.8

134 23.1 18.9 28.3

Manual Integrations  
APPROVED

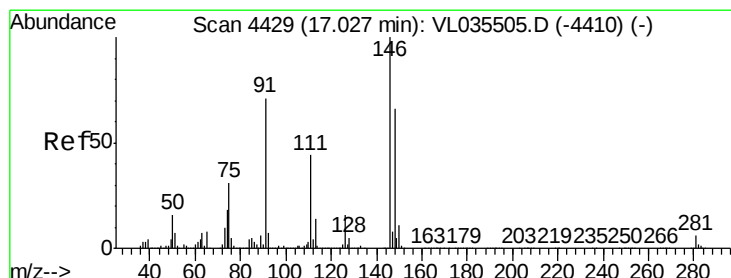
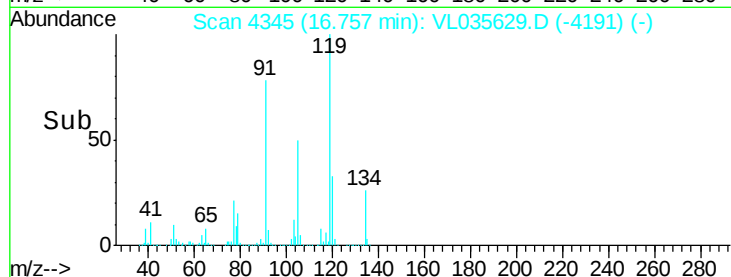
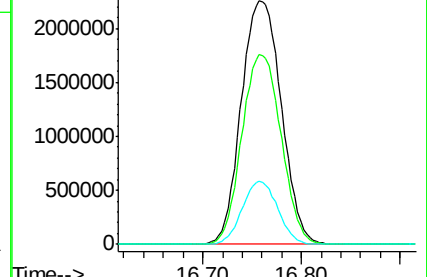
MMDadoda  
9/17/2020 1:52:23 PM



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 14.875 ppbv

RT: 17.00 min Scan# 4421

Delta R.T. -0.00 min

Lab File: VL035629.D

Acq: 16 Sep 2020 14:28

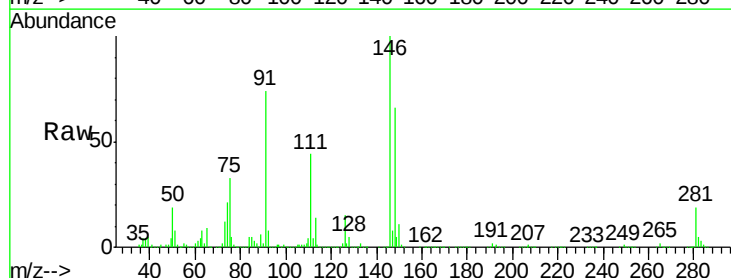
Tgt Ion: 91 Resp: 2262292

Ion Ratio Lower Upper

91 100

126 20.2 17.2 25.8

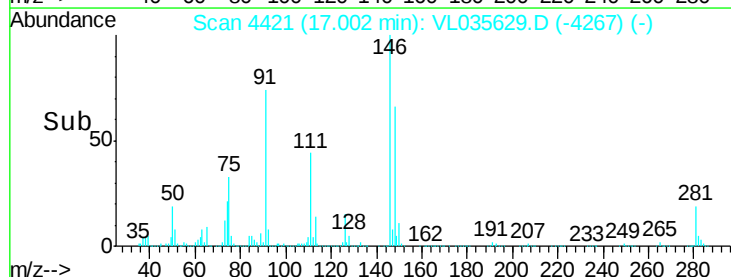
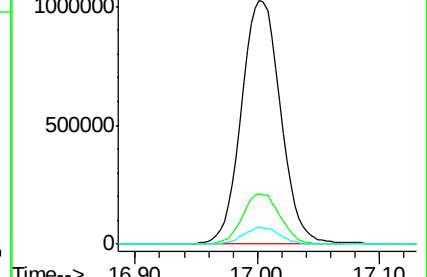
128 6.4 5.5 8.3

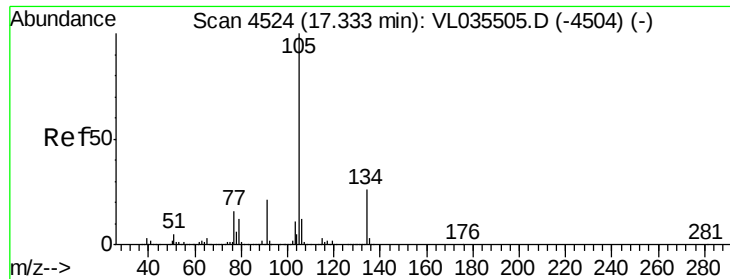


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





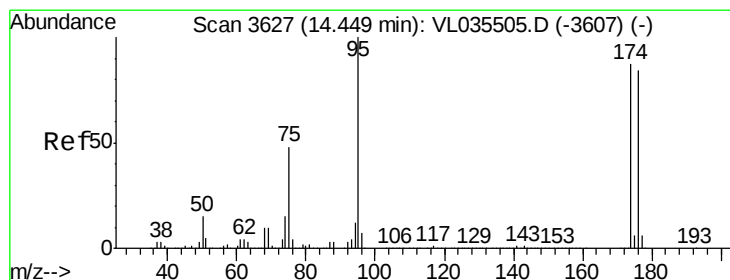
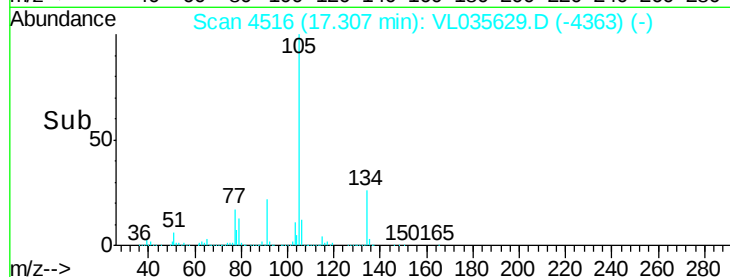
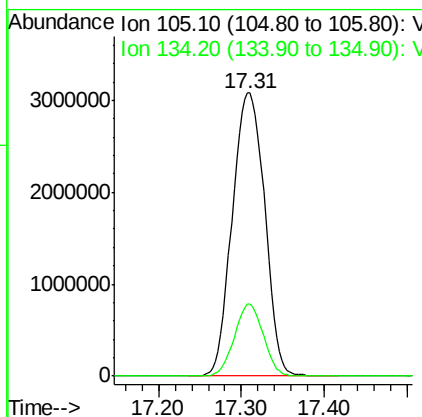
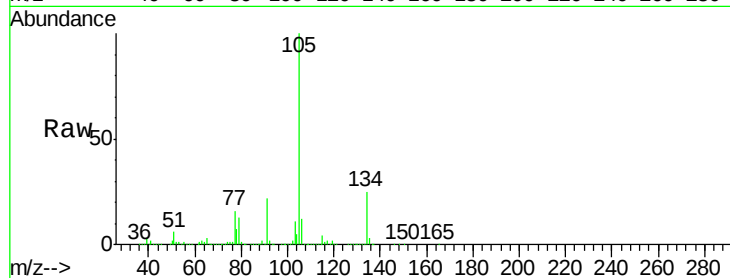
#67  
 sec-Butylbenzene  
 Concen: 10.251 ppbv  
 RT: 17.31 min Scan# 4516  
 Delta R.T. -0.01 min  
 Lab File: VL035629.D  
 Acq: 16 Sep 2020 14:28

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0916ABS01

Tot Ion:105 Resp: 8357964  
 Ion Ratio Lower Upper  
 105 100  
 134 22.7 19.1 28.7

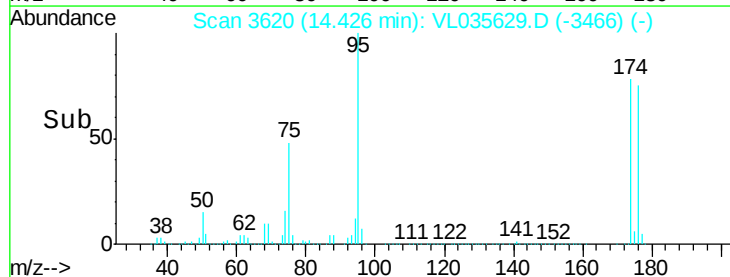
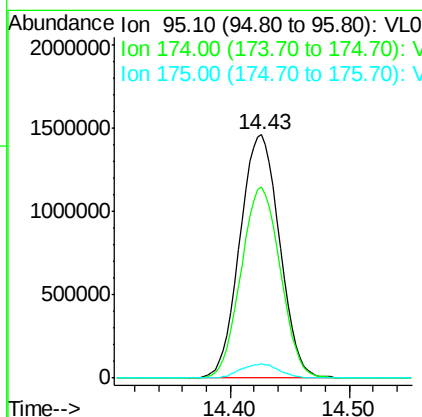
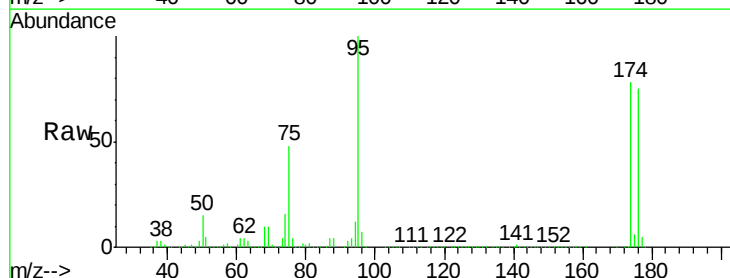
Manual Integrations  
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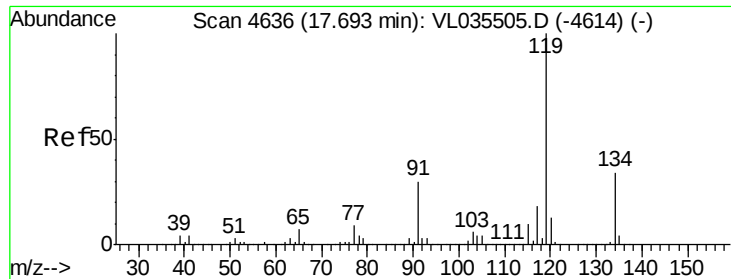
MMDadoda  
 9/17/2020 1:52:23 PM



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.050 ppbv  
 RT: 14.43 min Scan# 3620  
 Delta R.T. -0.00 min  
 Lab File: VL035629.D  
 Acq: 16 Sep 2020 14:28

Tgt Ion: 95 Resp: 3370151  
 Ion Ratio Lower Upper  
 95 100  
 174 78.1 69.6 104.4  
 175 5.7 5.1 7.7





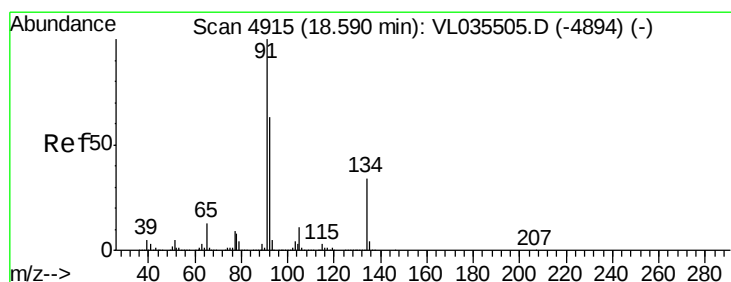
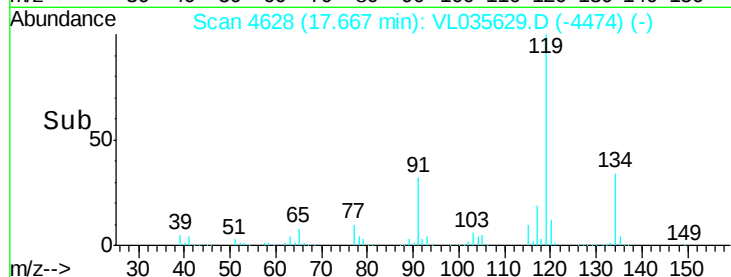
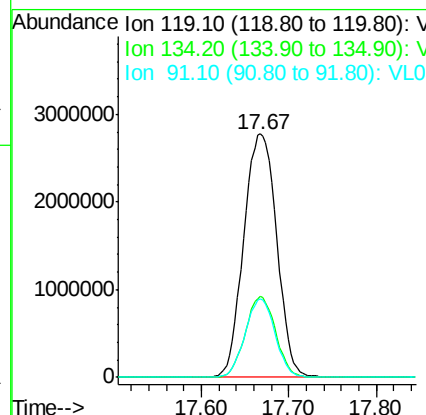
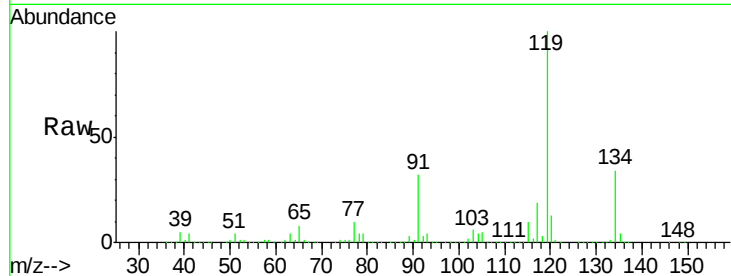
#69  
 p-Isopropyltoluene  
 Concen: 10.149 ppbv  
 RT: 17.67 min Scan# 4628  
 Delta R.T. -0.00 min  
 Lab File: VL035629.D  
 Acq: 16 Sep 2020 14:28

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0916ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 30.4  | 25.0  | 37.4  |
| 91      | 29.2  | 22.3  | 33.5  |

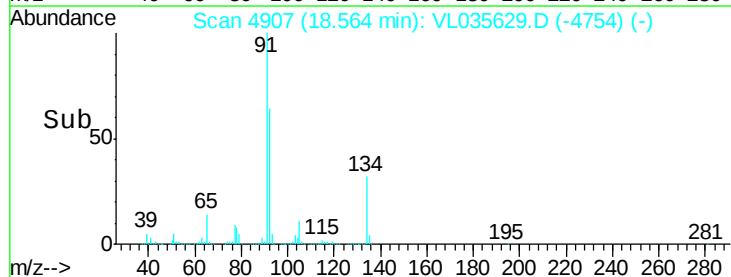
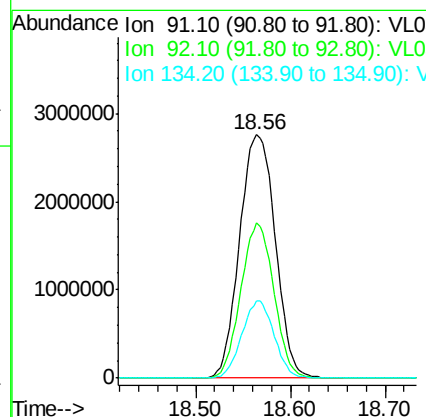
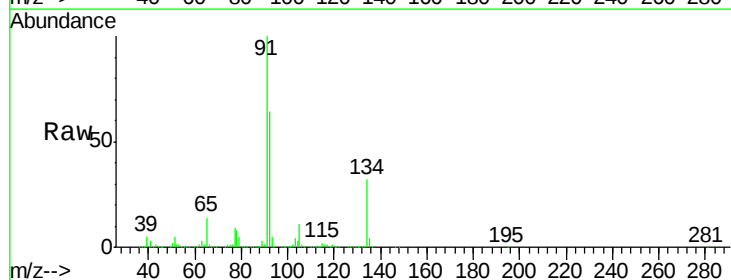
Manual Integrations  
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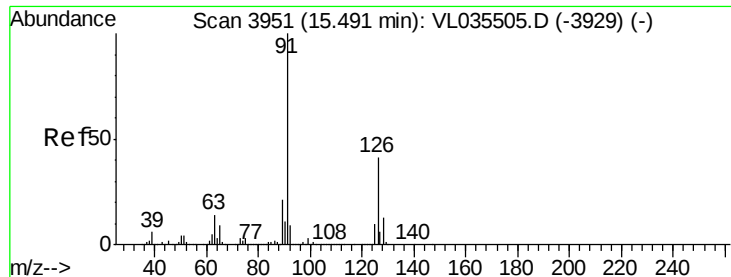
MMDadoda  
 9/17/2020 1:52:23 PM



#70  
 n-Butylbenzene  
 Concen: 10.491 ppbv  
 RT: 18.56 min Scan# 4907  
 Delta R.T. -0.01 min  
 Lab File: VL035629.D  
 Acq: 16 Sep 2020 14:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 59.2  | 47.3  | 70.9  |
| 134     | 28.8  | 24.6  | 37.0  |





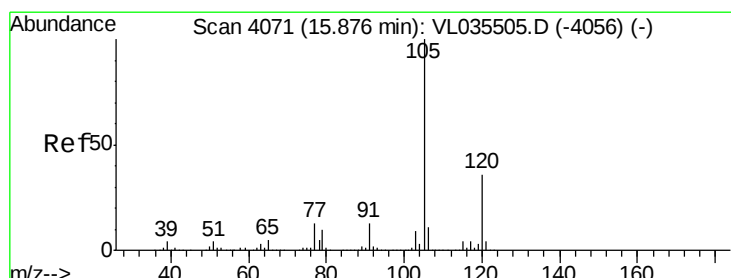
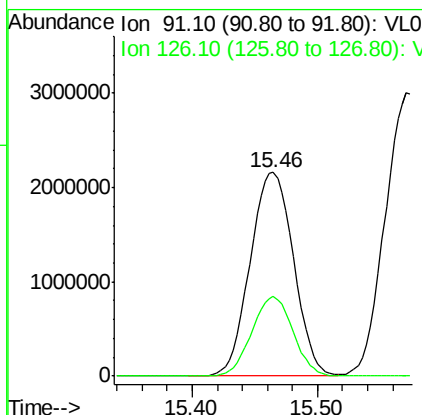
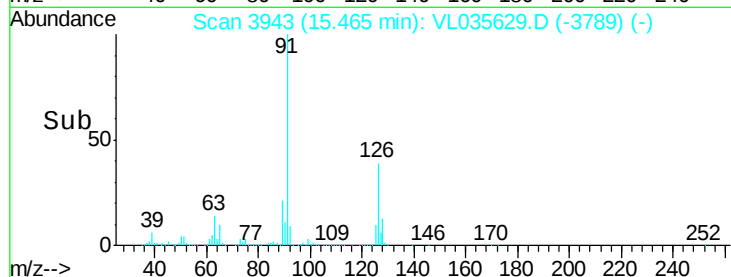
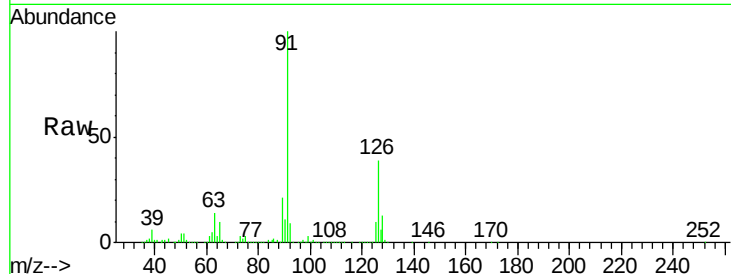
#71  
 2-Chlorotoluene  
 Concen: 10.857 ppbv  
 RT: 15.46 min Scan# 3943  
 Delta R.T. -0.00 min  
 Lab File: VL035629.D  
 Acq: 16 Sep 2020 14:28

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0916ABS01

Tot Ion: 91 Resp: 5204928  
 Ion Ratio Lower Upper  
 91 100  
 126 37.2 15.6 62.6

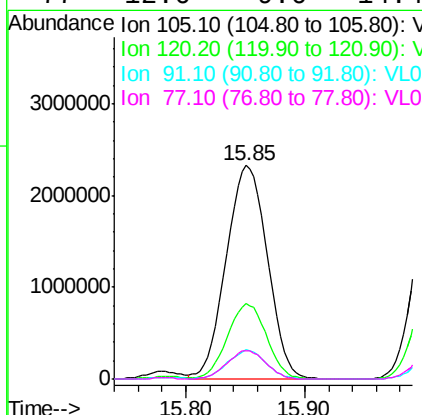
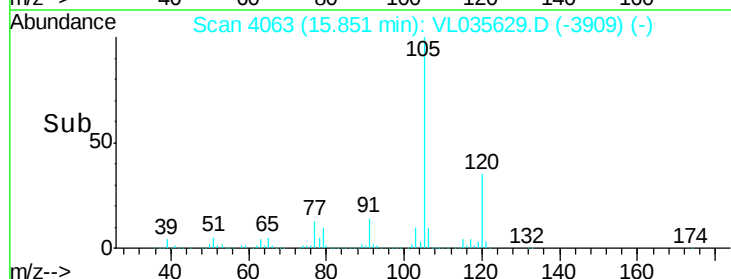
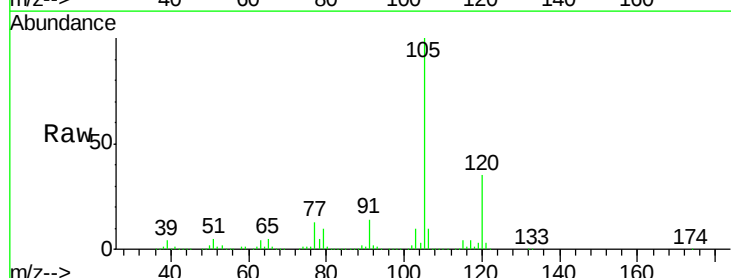
Manual Integrations  
 APPROVED

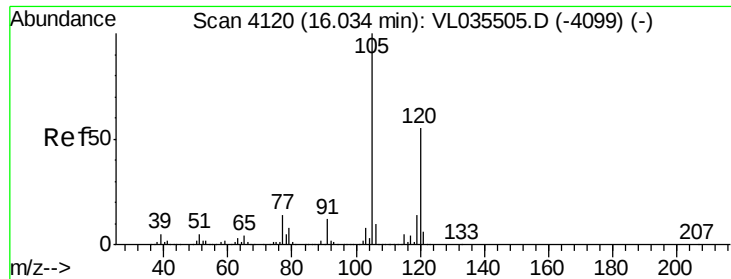
MMDadoda  
 9/17/2020 1:52:23 PM



#72  
 4-Ethyltoluene  
 Concen: 10.698 ppbv  
 RT: 15.85 min Scan# 4063  
 Delta R.T. -0.00 min  
 Lab File: VL035629.D  
 Acq: 16 Sep 2020 14:28

Tgt Ion:105 Resp: 5573459  
 Ion Ratio Lower Upper  
 105 100  
 120 33.7 27.4 41.2  
 91 12.6 9.7 14.5  
 77 12.6 9.6 14.4





#73

1,3,5-Trimethylbenzene

Concen: 10.786 ppbv

RT: 16.01 min Scan# 4112

Delta R.T. -0.01 min

Lab File: VL035629.D

Acq: 16 Sep 2020 14:28

Instrument :

MSVOA\_L

ClientSampleId :

VL0916ABS01

Tot Ion:105 Resp: 5197659

Ion Ratio Lower Upper

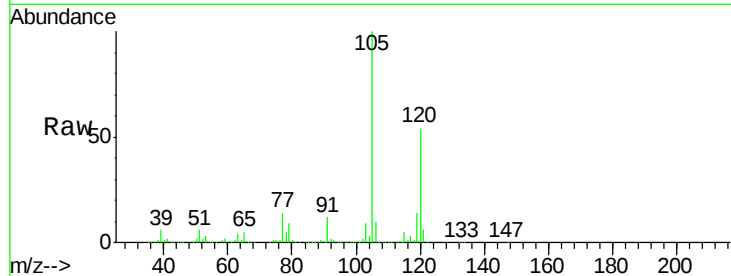
105 100

120 54.2 44.2 66.2

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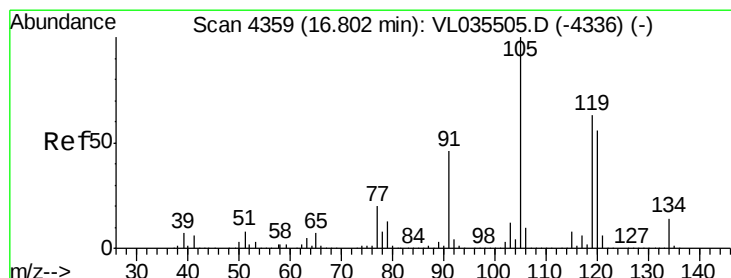
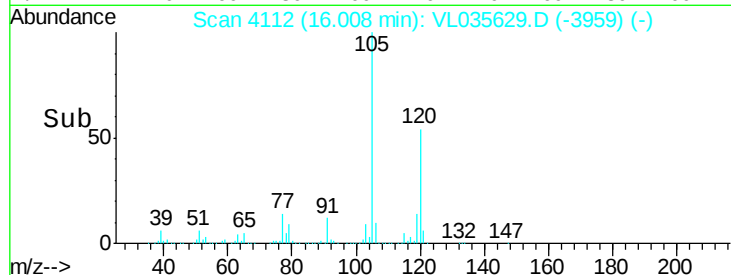
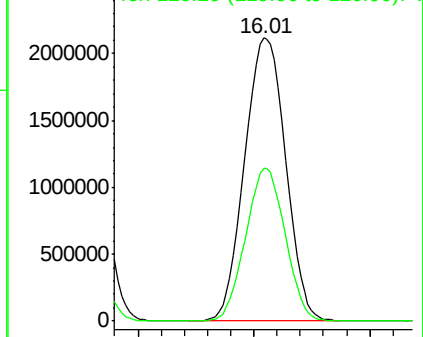
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 10.298 ppbv

RT: 16.78 min Scan# 4351

Delta R.T. -0.00 min

Lab File: VL035629.D

Acq: 16 Sep 2020 14:28

Tgt Ion:105 Resp: 5449439

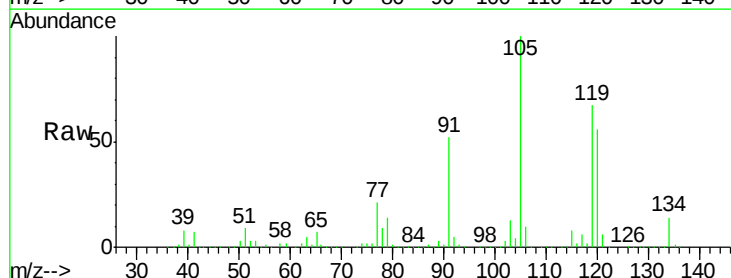
Ion Ratio Lower Upper

105 100

120 55.5 44.4 66.6

91 51.6 37.1 55.7

77 21.4 16.0 24.0

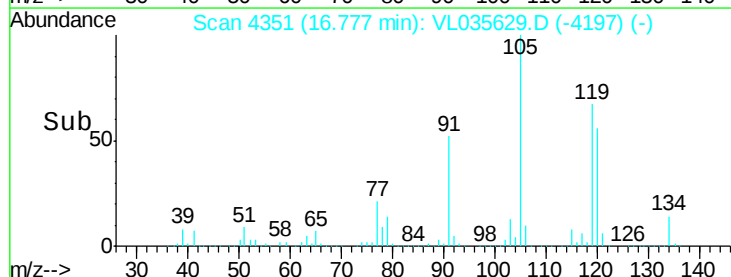
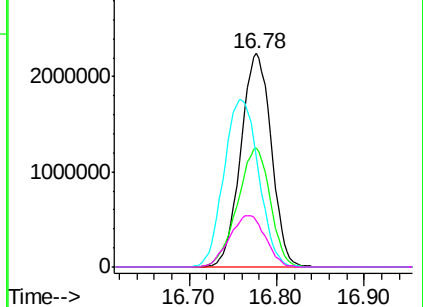


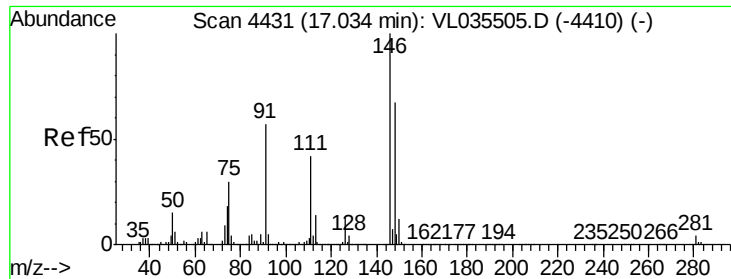
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





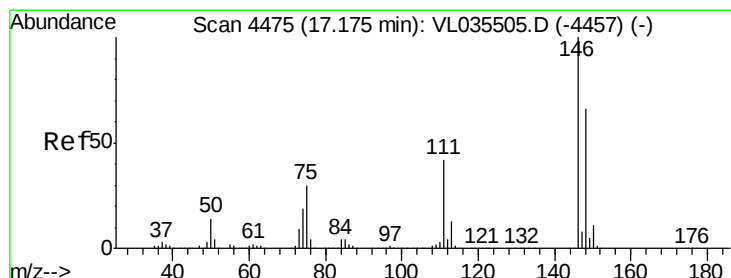
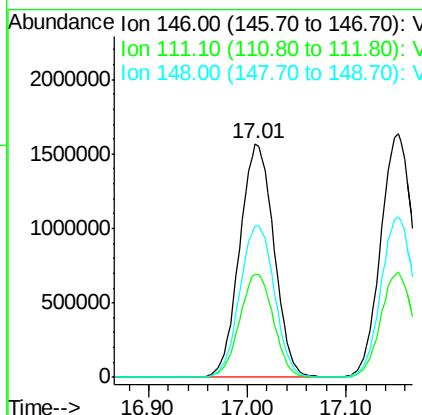
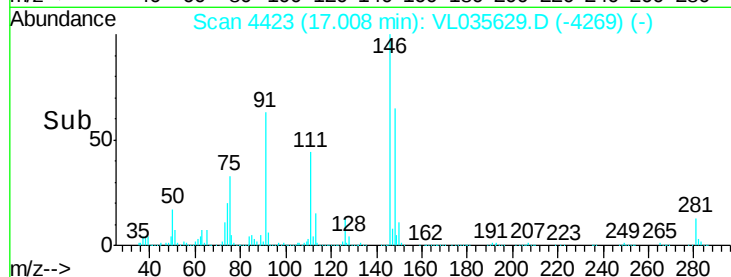
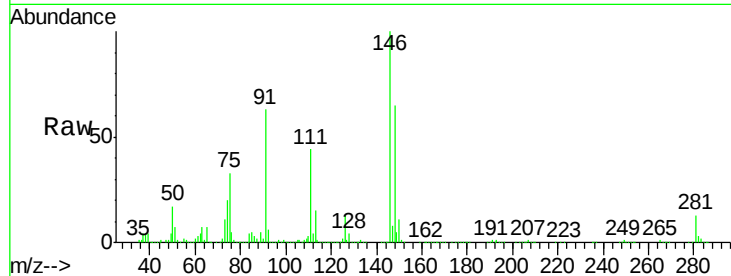
#75  
 1,3-Dichlorobenzene  
 Concen: 9.620 ppbv  
 RT: 17.01 min Scan# 4423  
 Delta R.T. -0.00 min  
 Lab File: VL035629.D  
 Acq: 16 Sep 2020 14:28

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0916ABS01

Tot Ion:146 Resp: 3771000  
 Ion Ratio Lower Upper  
 146 100  
 111 43.5 20.7 62.1  
 148 65.7 33.0 98.9

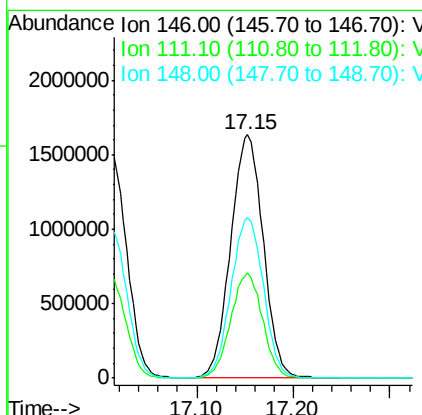
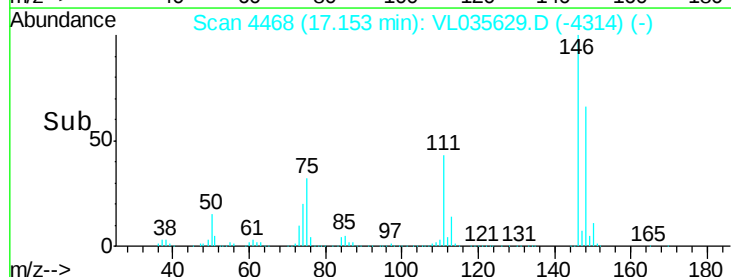
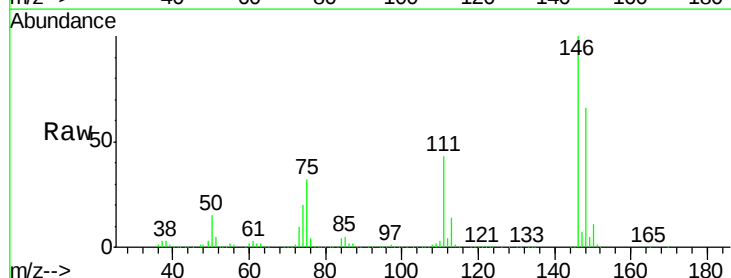
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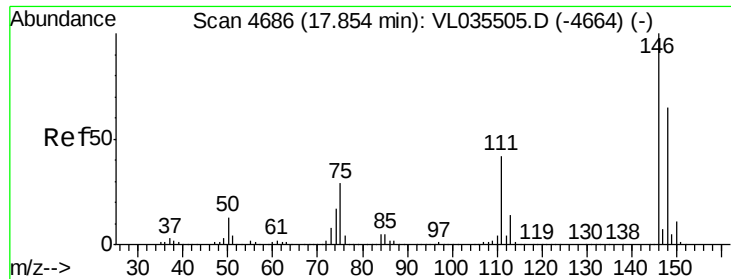
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#76  
 1,4-Dichlorobenzene  
 Concen: 9.863 ppbv  
 RT: 17.15 min Scan# 4468  
 Delta R.T. -0.00 min  
 Lab File: VL035629.D  
 Acq: 16 Sep 2020 14:28

Tgt Ion:146 Resp: 3812909  
 Ion Ratio Lower Upper  
 146 100  
 111 42.2 20.0 60.0  
 148 66.1 33.2 99.6





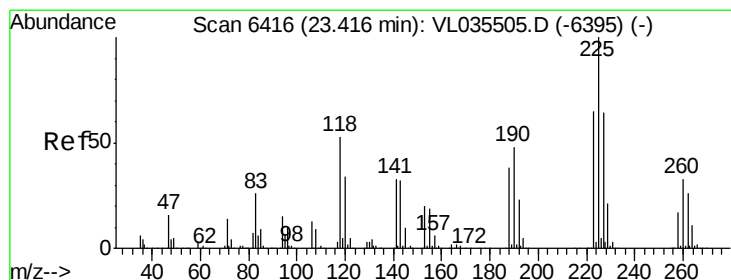
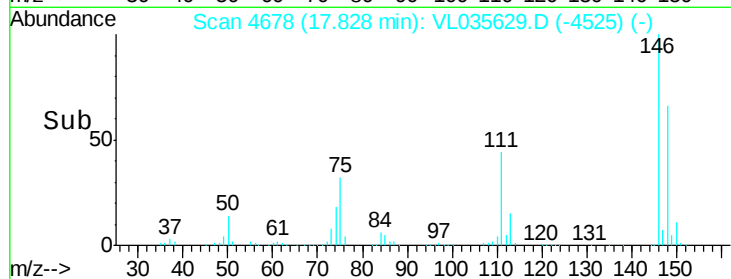
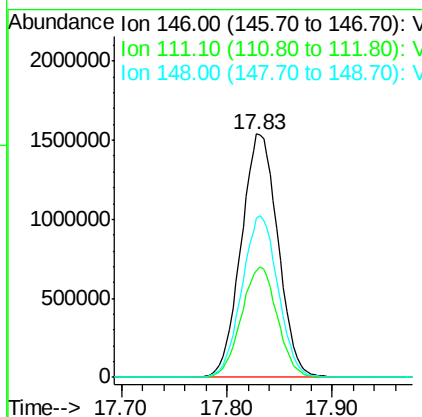
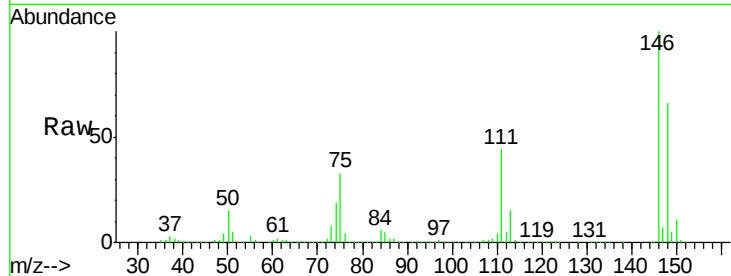
#77  
 1,2-Dichlorobenzene  
 Concen: 9.850 ppbv  
 RT: 17.83 min Scan# 4678  
 Delta R.T. -0.01 min  
 Lab File: VL035629.D  
 Acq: 16 Sep 2020 14:28

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0916ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 44.3  | 21.1  | 63.3  |
| 148     | 65.3  | 32.9  | 98.7  |

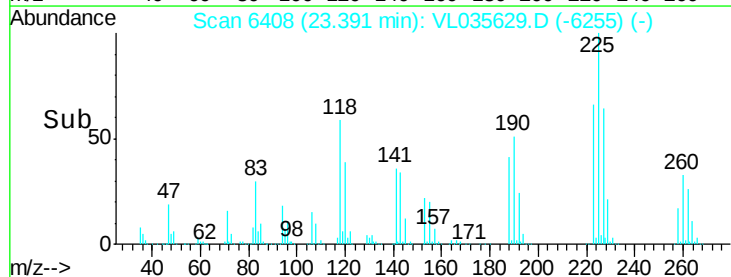
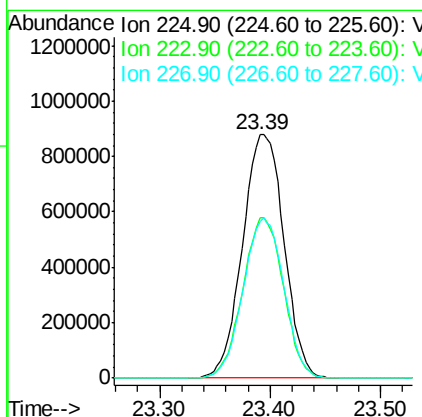
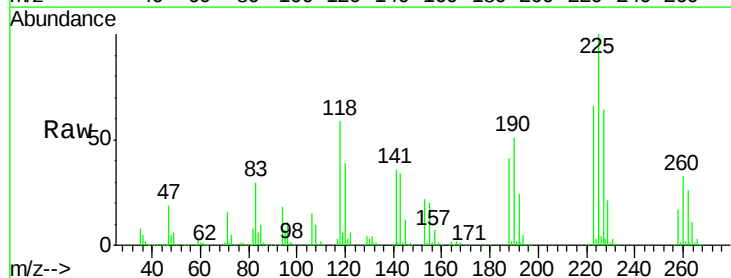
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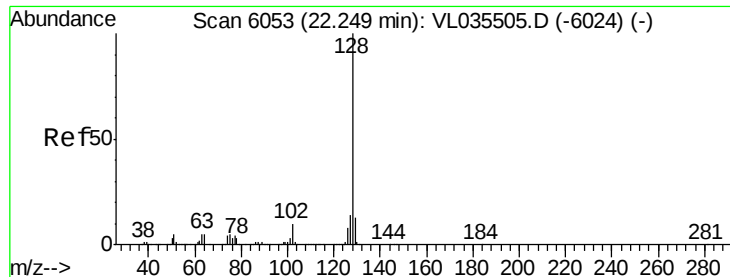
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#78  
 Hexachloro-1,3-Butadiene  
 Concen: 9.445 ppbv  
 RT: 23.39 min Scan# 6408  
 Delta R.T. -0.01 min  
 Lab File: VL035629.D  
 Acq: 16 Sep 2020 14:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 64.6  | 51.7  | 77.5  |
| 227     | 64.5  | 51.5  | 77.3  |





#79

Naphthalene

Concen: 10.859 ppbv

RT: 22.22 min Scan# 6044

Delta R.T. -0.00 min

Lab File: VL035629.D

Acq: 16 Sep 2020 14:28

Instrument :

MSVOA\_L

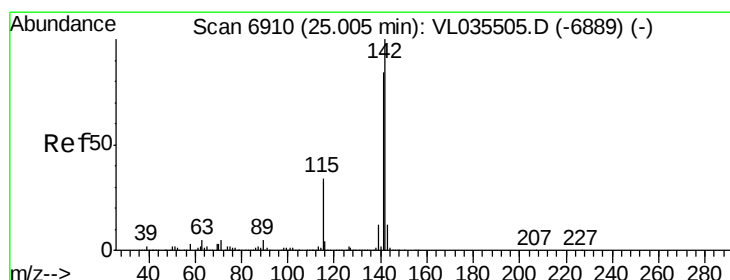
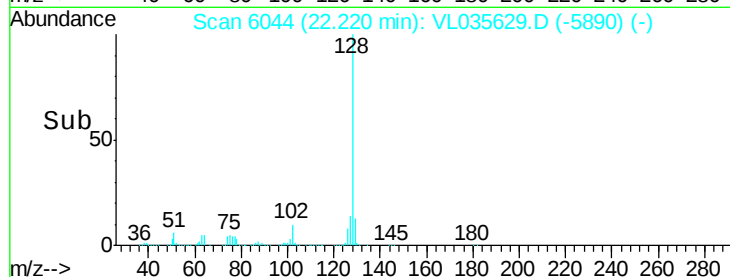
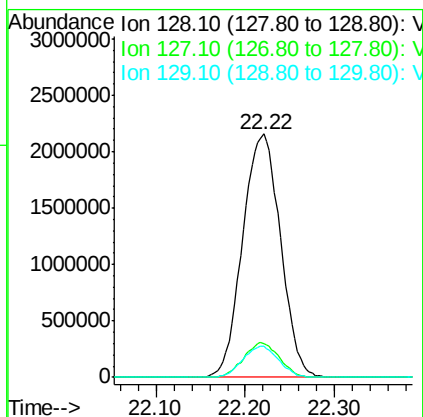
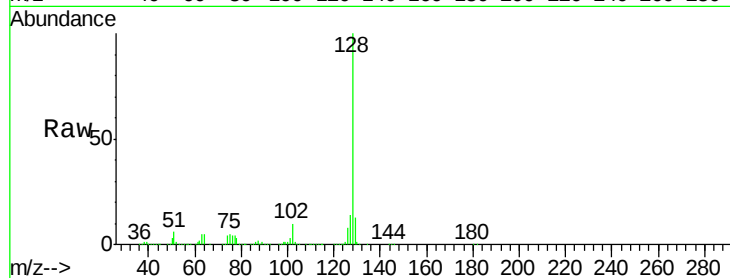
ClientSampleId :

VL0916ABS01

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 128   | Resp: | 6376327 |
| Ion      | Ratio | Lower | Upper   |
| 128      | 100   |       |         |
| 127      | 14.1  | 11.4  | 17.2    |
| 129      | 12.5  | 10.5  | 15.7    |

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#80

Naphthalene, 2-methyl-

Concen: 11.189 ppbv

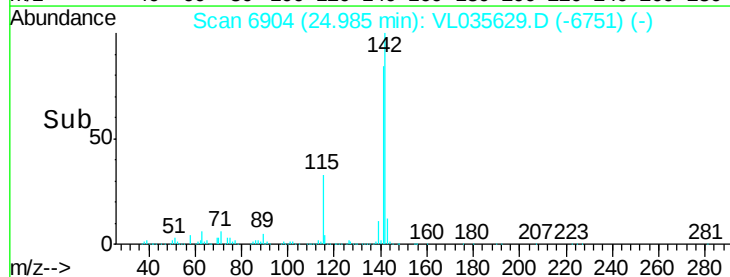
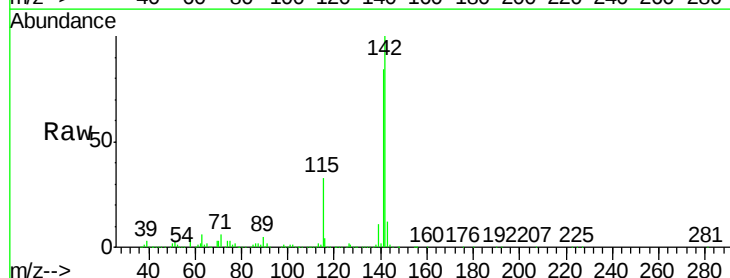
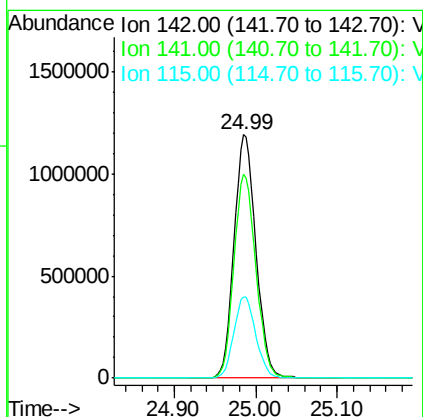
RT: 24.99 min Scan# 6904

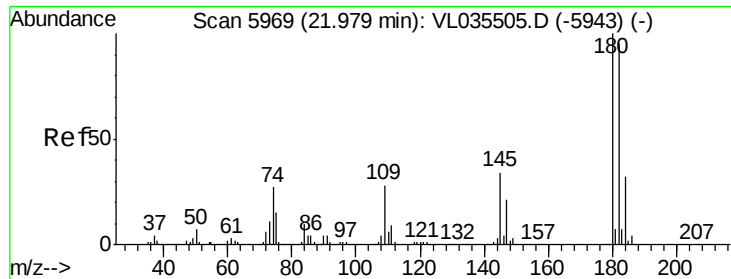
Delta R.T. -0.01 min

Lab File: VL035629.D

Acq: 16 Sep 2020 14:28

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 142   | Resp: | 2242430 |
| Ion      | Ratio | Lower | Upper   |
| 142      | 100   |       |         |
| 141      | 84.5  | 67.6  | 101.4   |
| 115      | 33.6  | 25.8  | 38.8    |





#81  
 1,2,4-Trichlorobenzene  
 Concen: 9.921 ppbv  
 RT: 21.95 min Scan# 5969  
 Delta R.T. -0.00 min  
 Lab File: VL035629.D  
 Acq: 16 Sep 2020 14:28

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0916ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.4  | 76.3  | 114.5 |
| 184     | 31.2  | 25.3  | 37.9  |

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