

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092120\  
 Data File : VL035682.D  
 Acq On : 21 Sep 2020 10:36  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Manual Integrations  
 APPROVED

MMDadoda  
 9/22/2020 2:05:54 PM

Quant Time: Sep 22 01:36:31 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   | 5.63  | 49   | 1001287  | 10.00 | ppbv  | -0.03    |
| 33) 1,4-Difluorobenzene | 7.14  | 114  | 4013475  | 10.00 | ppbv  | -0.03    |
| 55) Chlorobenzene-d5    | 12.06 | 117  | 4180232  | 10.00 | ppbv  | -0.04    |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 68) 1-Bromo-4-Fluorobenzene | 14.39  | 95    | 2928975  | 9.87     | ppbv | -0.04  |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 98.70% |

| Target Compounds               | R.T. | QIon | Response | Conc   | Units  | Ovalue |
|--------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.02 | 85   | 1510161  | 8.703  | ppbv   | 99     |
| 3) Chlorodifluoromethane       | 2.95 | 51   | 1090616  | 9.848  | ppbv   | 100    |
| 4) Chloromethane               | 3.11 | 50   | 581399   | 9.799  | ppbv   | 100    |
| 5) Vinyl Chloride              | 3.22 | 62   | 691232   | 9.450  | ppbv   | 100    |
| 6) Bromomethane                | 3.44 | 94   | 611888   | 9.959  | ppbv   | 96     |
| 7) Chloroethane                | 3.52 | 64   | 261623   | 10.117 | ppbv   | 99     |
| 8) Dichlorotetrafluoroethane   | 3.16 | 85   | 2006665  | 9.549  | ppbv   | 92     |
| 9) Propene                     | 2.98 | 41   | 409431   | 9.590  | ppbv   | 98     |
| 10) Heptane                    | 8.09 | 43   | 1207105  | 10.527 | ppbv   | 100    |
| 11) Trichlorofluoromethane     | 3.92 | 101  | 2433509  | 9.617  | ppbv   | 99     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.45 | 101  | 1846541  | 9.668  | ppbv   | 92     |
| 13) Ethanol                    | 3.57 | 45   | 98535    | 9.309  | ppbv   | 96     |
| 14) Bromoethene                | 3.71 | 108  | 816592   | 9.933  | ppbv   | 99     |
| 15) Acetone                    | 3.82 | 43   | 959920   | 8.692  | ppbv   | 98     |
| 16) 1,3-Butadiene              | 3.29 | 39   | 430015   | 10.460 | ppbv   | 99     |
| 17) tert-Butyl alcohol         | 4.26 | 59   | 1390449  | 10.344 | ppbv   | 100    |
| 18) 1,1-Dichloroethene         | 4.25 | 96   | 861667   | 10.245 | ppbv   | 98     |
| 19) Isopropyl Alcohol          | 3.93 | 45   | 669645   | 10.165 | ppbv # | 97     |
| 20) Methylene Chloride         | 4.31 | 84   | 698729   | 8.495  | ppbv   | 96     |
| 21) Allyl Chloride             | 4.38 | 41   | 582887   | 11.266 | ppbv   | 98     |
| 22) trans-1,2-Dichloroethene   | 4.85 | 96   | 894003   | 9.985  | ppbv   | 93     |
| 23) Vinyl Acetate              | 5.04 | 43   | 1428183  | 10.076 | ppbv   | 99     |
| 24) 1,1-Dichloroethane         | 4.98 | 63   | 1460954  | 10.016 | ppbv   | 99     |
| 25) Ethyl Acetate              | 5.64 | 43   | 1981501  | 10.157 | ppbv   | 99     |
| 26) Hexane                     | 5.65 | 57   | 1110744  | 10.048 | ppbv   | 98     |
| 27) Carbon Disulfide           | 4.51 | 76   | 1874021  | 11.814 | ppbv   | 99     |
| 28) Methyl tert-Butyl Ether    | 5.00 | 73   | 1913530  | 9.932  | ppbv   | 100    |
| 29) Chloroform                 | 5.72 | 83   | 2279674  | 10.122 | ppbv   | 98     |
| 30) Cyclohexane                | 7.10 | 84   | 1220463  | 10.306 | ppbv   | 96     |
| 31) cis-1,2-Dichloroethene     | 5.51 | 61   | 1167508  | 10.295 | ppbv   | 97     |
| 32) 1,1,1-Trichloroethane      | 6.48 | 97   | 2221284  | 10.167 | ppbv   | 99     |
| 34) 2-Butanone                 | 5.21 | 43   | 1340141  | 11.251 | ppbv   | 98     |
| 35) Carbon Tetrachloride       | 6.98 | 117  | 2320293  | 11.503 | ppbv   | 98     |
| 36) Benzene                    | 6.86 | 78   | 2809078  | 10.813 | ppbv   | 99     |
| 37) 1,2-Dichloroethane         | 6.27 | 62   | 1391915  | 11.238 | ppbv   | 98     |
| 38) Trichloroethene            | 7.80 | 130  | 1435256  | 9.511  | ppbv   | 95     |
| 39) 1,2-Dichloropropane        | 7.58 | 63   | 951575   | 10.843 | ppbv   | 98     |
| 40) 1,4-Dioxane                | 7.80 | 88   | 506297   | 11.548 | ppbv   | 88     |
| 41) Tetrahydrofuran            | 6.02 | 42   | 750292   | 11.879 | ppbv   | 98     |
| 42) Bromodichloromethane       | 7.76 | 83   | 2373608  | 11.850 | ppbv   | 98     |
| 43) Methyl Methacrylate        | 7.98 | 69   | 1182899  | 11.775 | ppbv   | 97     |

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 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Manual Integrations  
 APPROVED

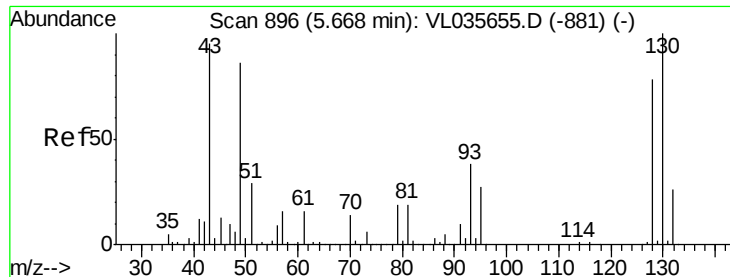
MMDadoda  
 9/22/2020 2:05:54 PM

Quant Time: Sep 22 01:36:31 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    | 7.83  | 57   | 3781984  | 11.064 | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 9.25  | 75   | 1333730  | 13.106 | ppbv   | 99       |
| 46) cis-1,3-Dichloropropene   | 8.67  | 75   | 1578600  | 12.494 | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 9.45  | 97   | 1392041  | 10.749 | ppbv   | 97       |
| 48) Dibromochloromethane      | 10.28 | 129  | 2359373  | 11.576 | ppbv   | 100      |
| 49) Bromoform                 | 13.01 | 173  | 2111464  | 11.431 | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 8.71  | 43   | 2009455  | 11.651 | ppbv   | 99       |
| 51) 2-Hexanone                | 10.10 | 43   | 1661983  | 11.747 | ppbv # | 98       |
| 52) Tetrachloroethene         | 11.19 | 164  | 1332698  | 8.781  | ppbv   | 96       |
| 53) Toluene                   | 9.77  | 91   | 3548682  | 10.862 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 10.58 | 107  | 2178168  | 10.645 | ppbv   | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 12.10 | 131  | 1838716  | 10.810 | ppbv   | 96       |
| 57) Chlorobenzene             | 12.12 | 112  | 3006975  | 9.774  | ppbv   | 97       |
| 58) Ethyl Benzene             | 12.68 | 91   | 4660190  | 10.811 | ppbv   | 98       |
| 59) m/p-Xylene                | 12.97 | 91   | 8049193m | 22.347 | ppbv   |          |
| 60) o-Xylene                  | 13.67 | 91   | 3924439  | 10.818 | ppbv   | 97       |
| 61) Styrene                   | 13.50 | 104  | 3042762  | 10.967 | ppbv   | 98       |
| 62) Isopropylbenzene          | 14.64 | 105  | 5926194  | 10.169 | ppbv   | 97       |
| 63) 1,1,2,2-Tetrachloroethane | 13.65 | 83   | 2874637  | 10.221 | ppbv   | 99       |
| 64) n-propylbenzene           | 15.54 | 120  | 1796382  | 10.101 | ppbv   | 85       |
| 65) tert-Butylbenzene         | 16.72 | 119  | 5460798  | 10.080 | ppbv   | 95       |
| 66) Benzyl Chloride           | 16.97 | 91   | 1905141  | 14.151 | ppbv   | 96       |
| 67) sec-Butylbenzene          | 17.28 | 105  | 7357576  | 10.194 | ppbv   | 95       |
| 69) p-Isopropyltoluene        | 17.63 | 119  | 6196446  | 9.788  | ppbv   | 97       |
| 70) n-Butylbenzene            | 18.53 | 91   | 6156930  | 10.097 | ppbv   | 96       |
| 71) 2-Chlorotoluene           | 15.43 | 91   | 4523141  | 10.658 | ppbv   | 95       |
| 72) 4-Ethyltoluene            | 15.82 | 105  | 4833360  | 10.480 | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene    | 15.98 | 105  | 4493770  | 10.534 | ppbv   | 95       |
| 74) 1,2,4-Trimethylbenzene    | 16.74 | 105  | 4693900  | 10.020 | ppbv   | 97       |
| 75) 1,3-Dichlorobenzene       | 16.98 | 146  | 3101445  | 8.938  | ppbv   | 98       |
| 76) 1,4-Dichlorobenzene       | 17.12 | 146  | 3116326  | 9.106  | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 17.80 | 146  | 3046604  | 9.062  | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 23.36 | 225  | 1732779  | 8.073  | ppbv   | 99       |
| 79) Naphthalene               | 22.18 | 128  | 4734411  | 9.108  | ppbv   | 97       |
| 80) Naphthalene, 2-methyl-    | 24.96 | 142  | 1335643  | 7.528  | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 21.91 | 180  | 2505056  | 8.048  | ppbv   | 99       |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.63 min Scan# 885

Delta R.T. -0.03 min

Lab File: VL035682.D

Acq: 21 Sep 2020 10:36

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion: 49 Resp: 1001287

Ion Ratio Lower Upper

49 100

128 87.7 50.0 150.1

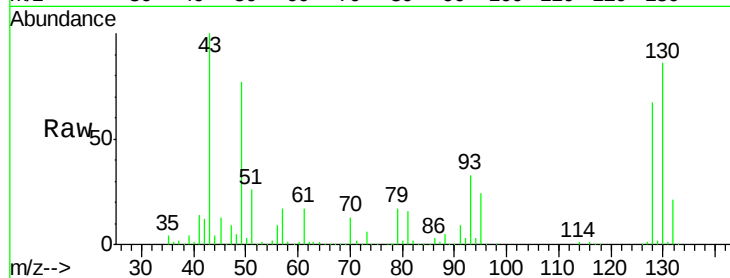
130 111.9 64.4 193.2

Manual Integrations

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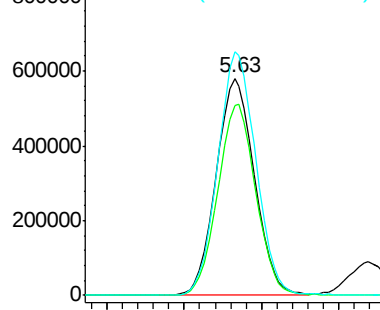
9/22/2020 2:05:54 PM



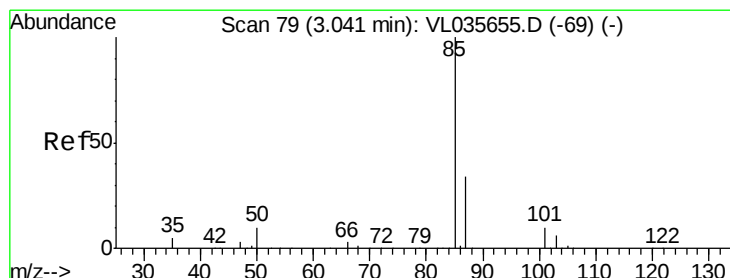
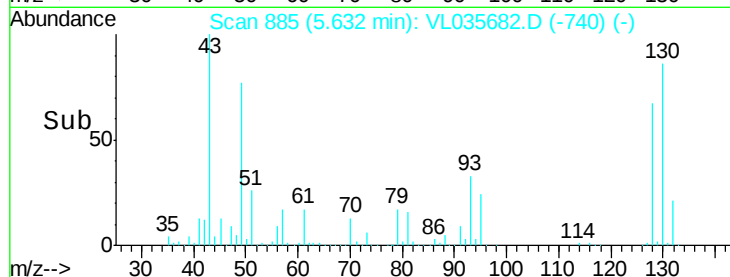
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



Time-->



#2

Dichlorodifluoromethane

Concen: 8.703 ppbv

RT: 3.02 min Scan# 71

Delta R.T. -0.02 min

Lab File: VL035682.D

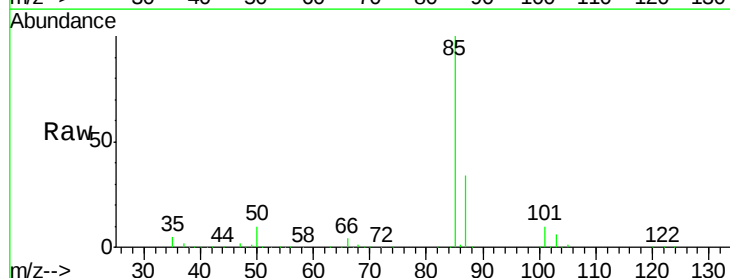
Acq: 21 Sep 2020 10:36

Tgt Ion: 85 Resp: 1510161

Ion Ratio Lower Upper

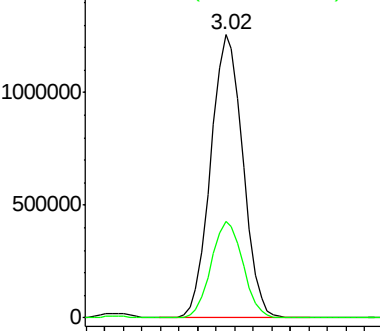
85 100

87 34.2 28.0 42.0

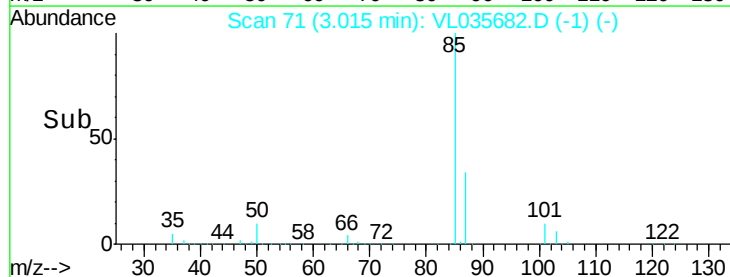


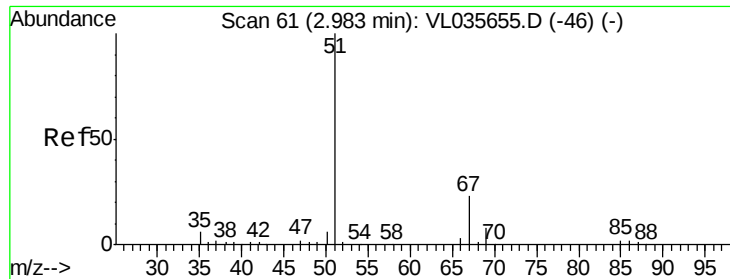
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0



Time-->





#3

Chlorodifluoromethane

Concen: 9.848 ppbv

RT: 2.95 min Scan# 52

Delta R.T. -0.02 min

Lab File: VL035682.D

Acq: 21 Sep 2020 10:36

Tot Ion: 51 Resp: 1090616

Ion Ratio Lower Upper

51 100

67 22.5 17.8 26.8

Instrument :

MSVOA\_L

ClientSampleId :

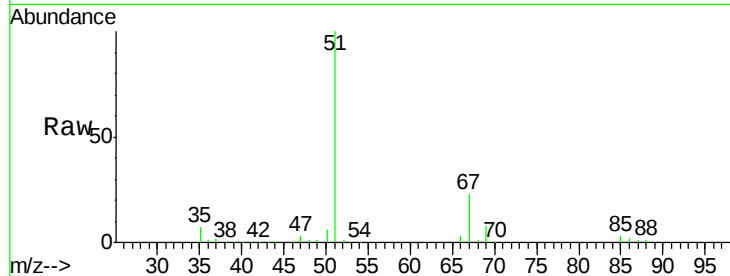
VSTDCCC010

Manual Integrations

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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

1000000

800000

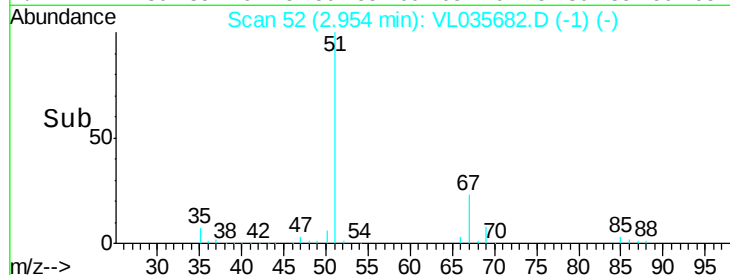
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400000

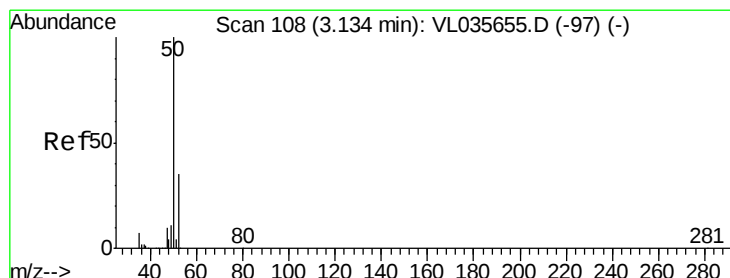
200000

0

Time-->



Time-->



#4

Chloromethane

Concen: 9.799 ppbv

RT: 3.11 min Scan# 99

Delta R.T. -0.02 min

Lab File: VL035682.D

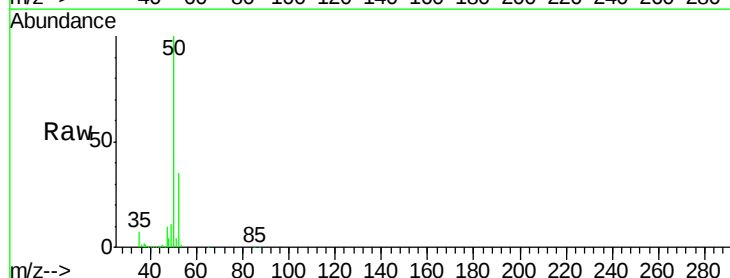
Acq: 21 Sep 2020 10:36

Tgt Ion: 50 Resp: 581399

Ion Ratio Lower Upper

50 100

52 34.9 27.7 41.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

500000

400000

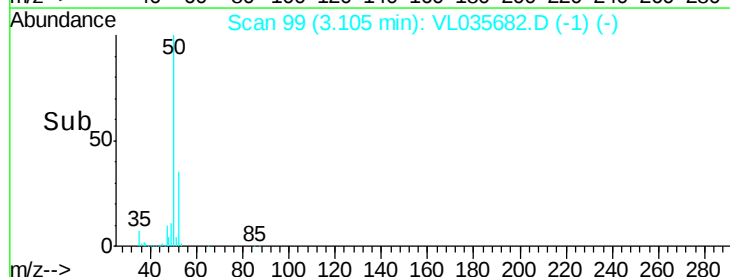
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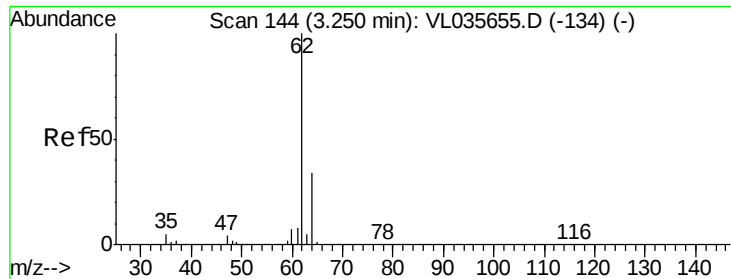
200000

100000

0

Time-->





#5

Vinyl Chloride

Concen: 9.450 ppbv

RT: 3.22 min Scan# 136

Delta R.T. -0.02 min

Lab File: VL035682.D

Acq: 21 Sep 2020 10:36

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 691232

Ion Ratio Lower Upper

62 100

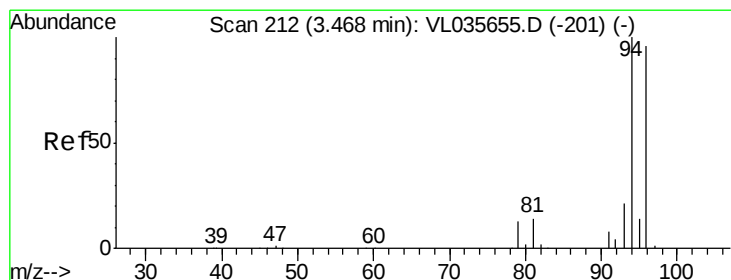
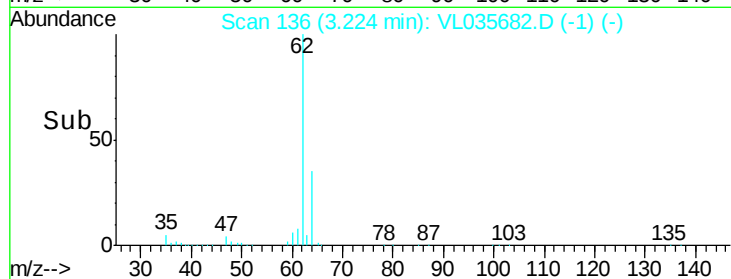
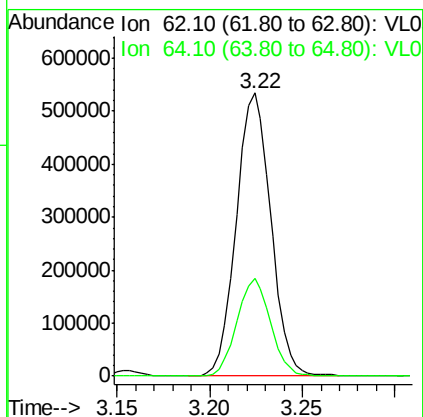
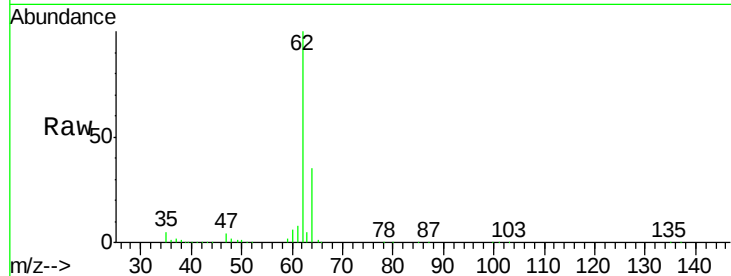
64 34.6 27.4 41.2

Manual Integrations

APPROVED

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#6

Bromomethane

Concen: 9.959 ppbv

RT: 3.44 min Scan# 203

Delta R.T. -0.02 min

Lab File: VL035682.D

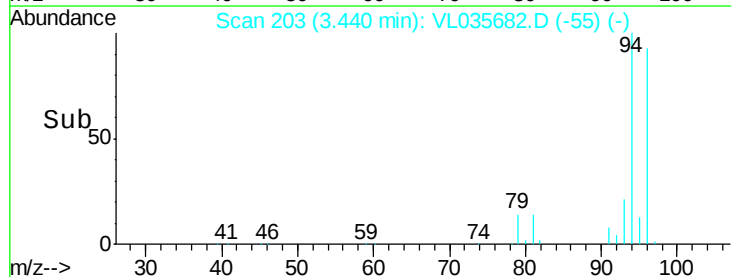
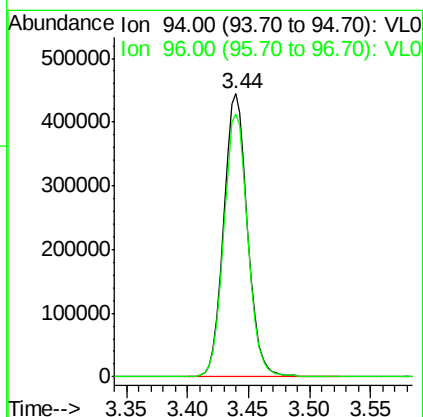
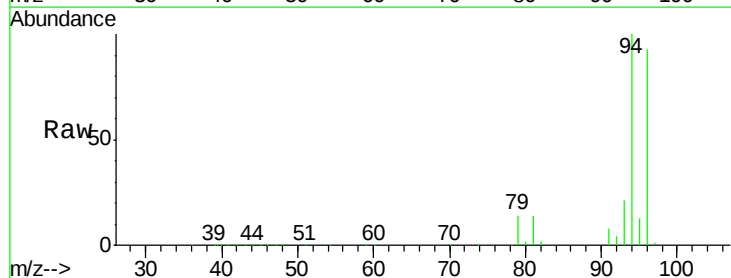
Acq: 21 Sep 2020 10:36

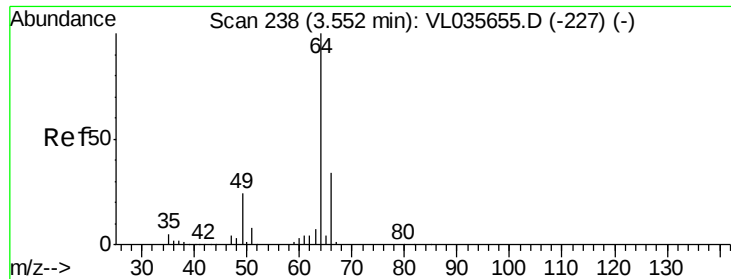
Tgt Ion: 94 Resp: 611888

Ion Ratio Lower Upper

94 100

96 92.9 77.1 115.7





#7

Chloroethane

Concen: 10.117 ppbv

RT: 3.52 min Scan# 229

Delta R.T. -0.02 min

Lab File: VL035682.D

Acq: 21 Sep 2020 10:36

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 261623

Ion Ratio Lower Upper

64 100

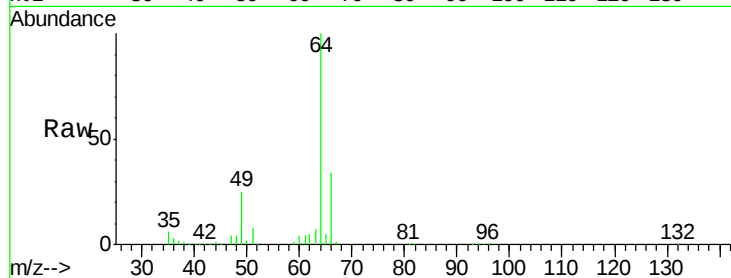
66 34.2 27.7 41.5

Manual Integrations

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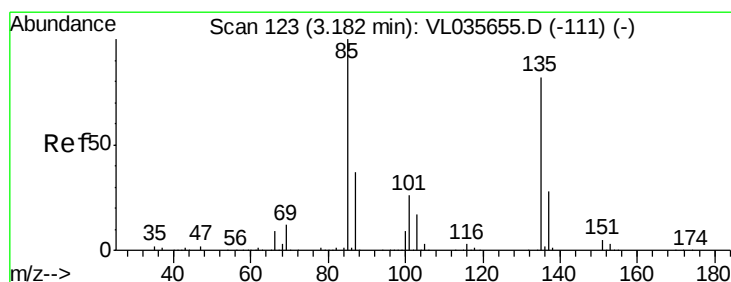
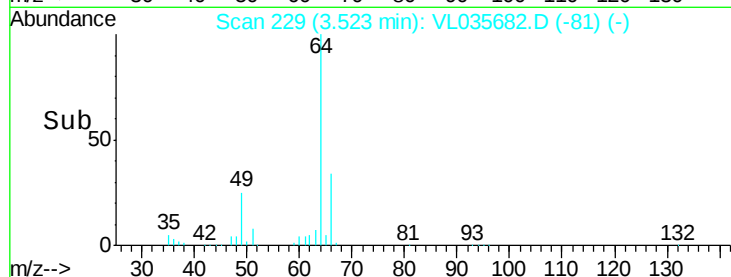
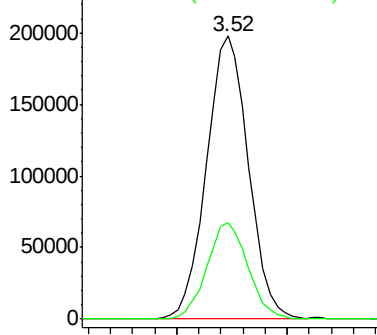
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 9.549 ppbv

RT: 3.16 min Scan# 115

Delta R.T. -0.02 min

Lab File: VL035682.D

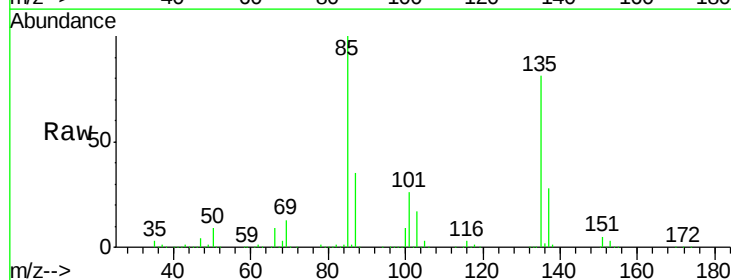
Acq: 21 Sep 2020 10:36

Tgt Ion: 85 Resp: 2006665

Ion Ratio Lower Upper

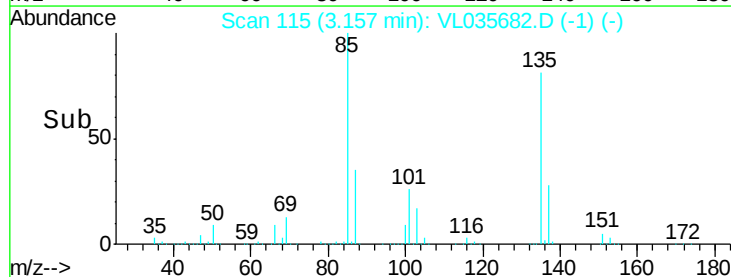
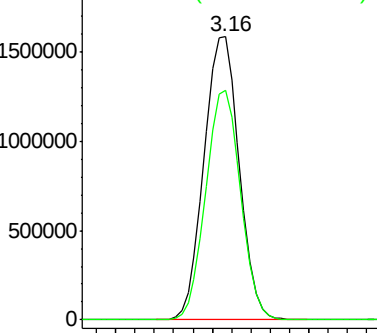
85 100

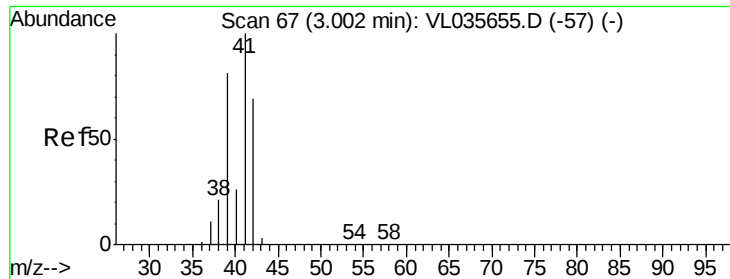
135 80.6 70.4 105.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 9.590 ppbv

RT: 2.98 min Scan# 59

Delta R.T. -0.02 min

Lab File: VL035682.D

Acq: 21 Sep 2020 10:36

Instrument :

MSVOA\_L

ClientSampleId :

VSTDC0010

Tot Ion: 41 Resp: 409431

Ion Ratio Lower Upper

41 100

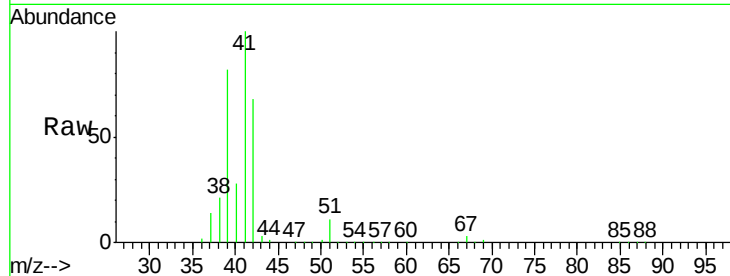
42 68.9 56.3 84.5

Manual Integrations

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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

2.98

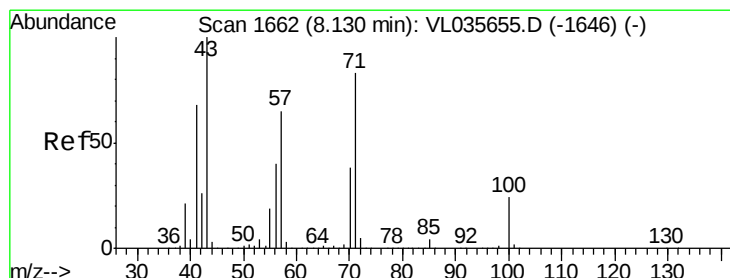
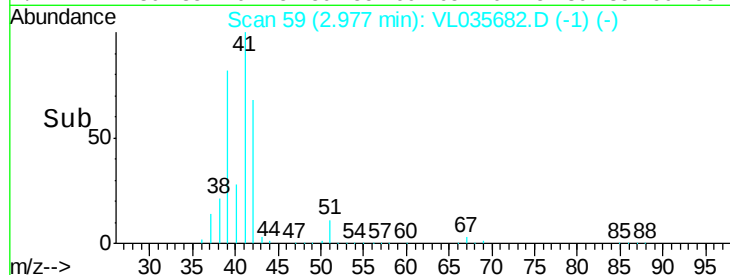
300000

200000

100000

0

Time-->



#10

Heptane

Concen: 10.527 ppbv

RT: 8.09 min Scan# 1649

Delta R.T. -0.04 min

Lab File: VL035682.D

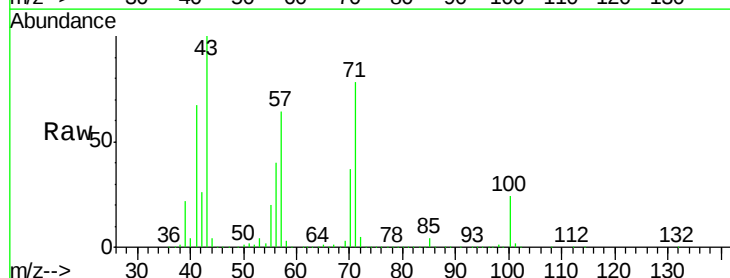
Acq: 21 Sep 2020 10:36

Tgt Ion: 43 Resp: 1207105

Ion Ratio Lower Upper

43 100

57 63.9 51.4 77.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

8.09

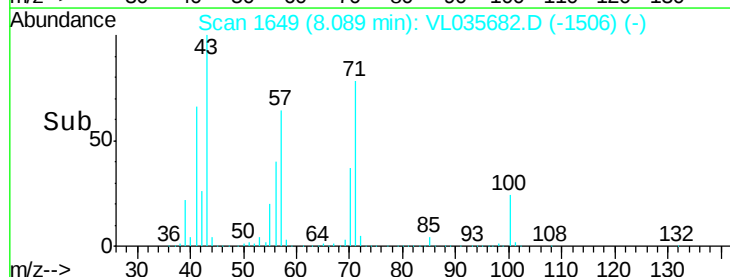
600000

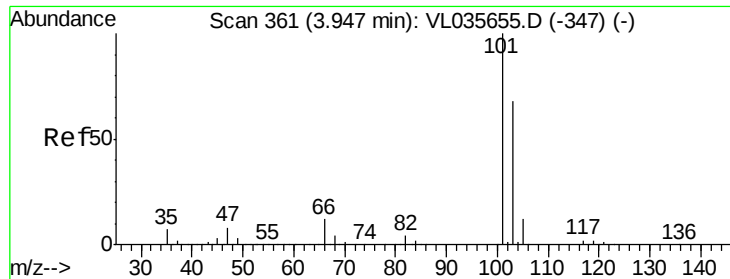
400000

200000

0

Time-->





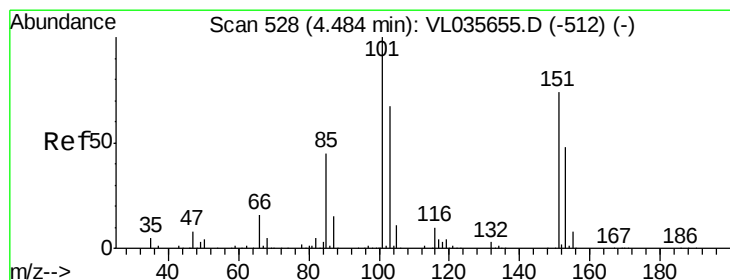
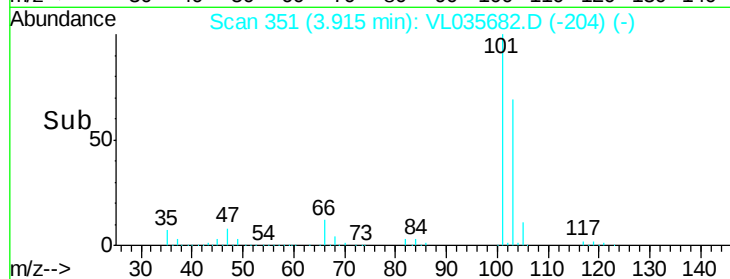
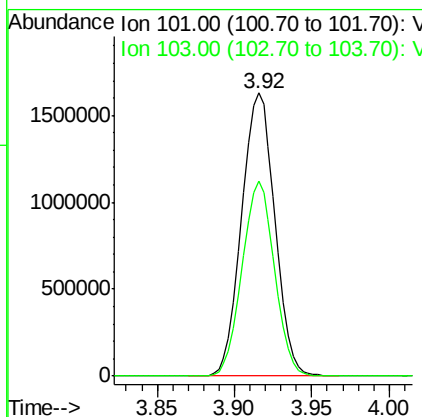
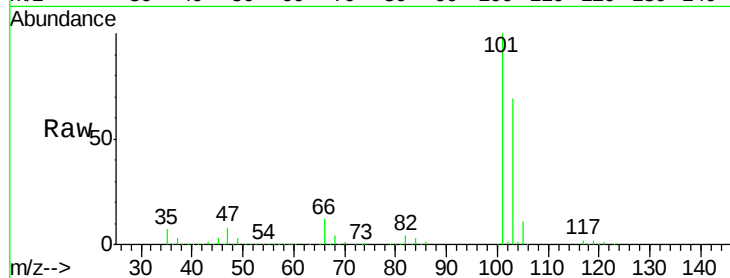
#11  
 Trichlorofluoromethane  
 Concen: 9.617 ppbv  
 RT: 3.92 min Scan# 351  
 Delta R.T. -0.03 min  
 Lab File: VL035682.D  
 Acq: 21 Sep 2020 10:36

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tot Ion:101 Resp: 2433509  
 Ion Ratio Lower Upper  
 101 100  
 103 68.9 54.5 81.7

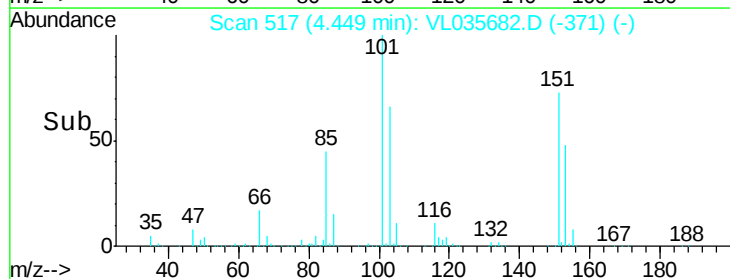
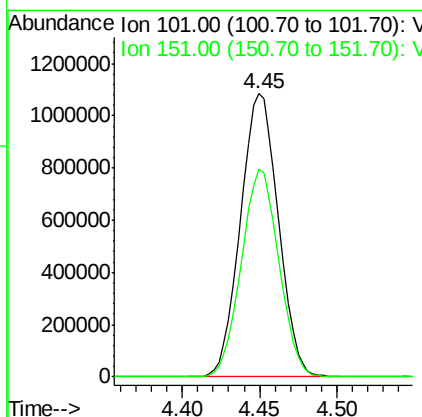
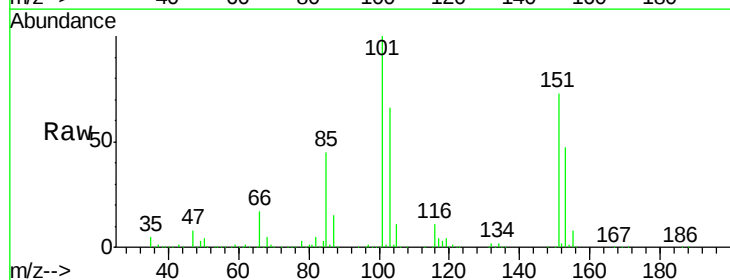
Manual Integrations  
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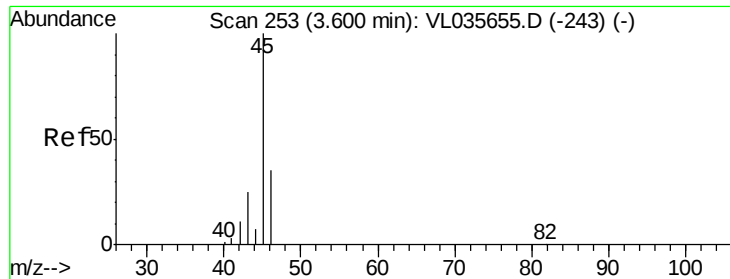
MMDadoda  
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#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 9.668 ppbv  
 RT: 4.45 min Scan# 517  
 Delta R.T. -0.03 min  
 Lab File: VL035682.D  
 Acq: 21 Sep 2020 10:36

Tgt Ion:101 Resp: 1846541  
 Ion Ratio Lower Upper  
 101 100  
 151 72.8 63.5 95.3





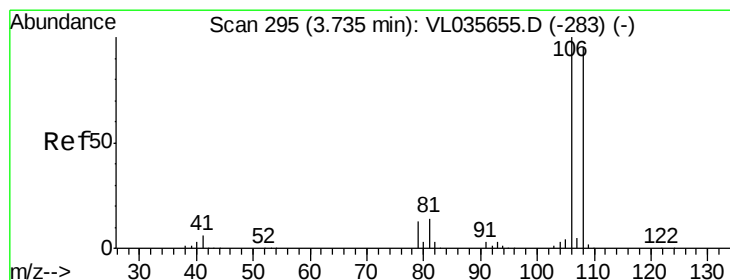
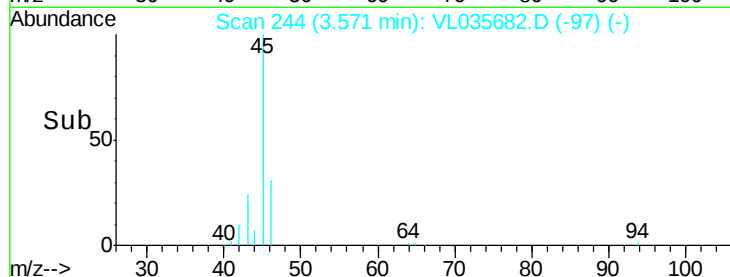
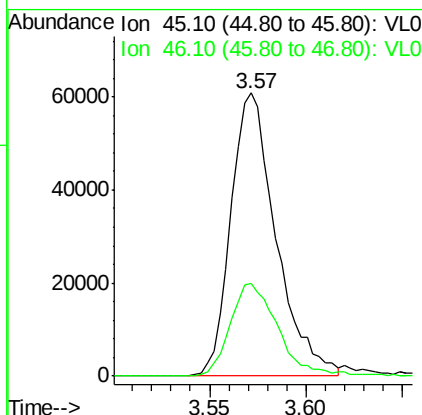
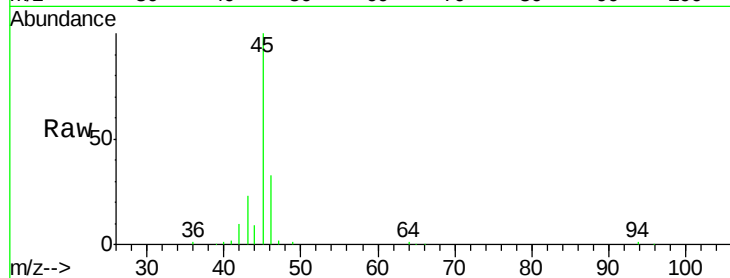
#13  
Ethanol  
Concen: 9.309 ppbv  
RT: 3.57 min Scan# 244  
Delta R.T. -0.03 min  
Lab File: VL035682.D  
Acq: 21 Sep 2020 10:36

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tot Ion: 45 Resp: 98535  
Ion Ratio Lower Upper  
45 100  
46 35.5 15.2 60.6

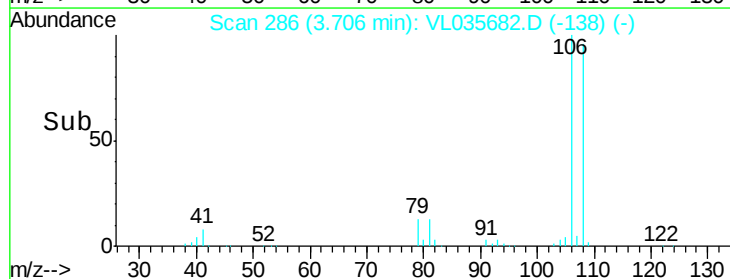
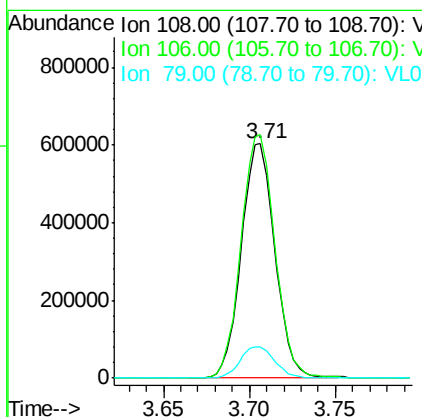
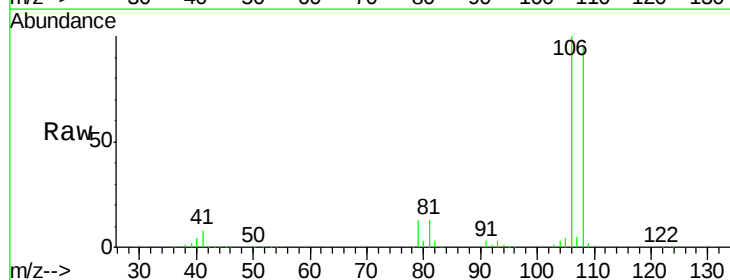
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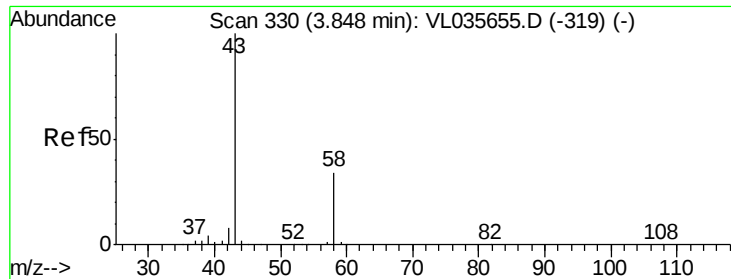
MMDadoda  
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#14  
Bromoethene  
Concen: 9.933 ppbv  
RT: 3.71 min Scan# 286  
Delta R.T. -0.02 min  
Lab File: VL035682.D  
Acq: 21 Sep 2020 10:36

Tgt Ion: 108 Resp: 816592  
Ion Ratio Lower Upper  
108 100  
106 105.6 84.9 127.3  
79 13.9 10.8 16.2





#15

Acetone

Concen: 8.692 ppbv

RT: 3.82 min Scan# 320

Delta R.T. -0.02 min

Lab File: VL035682.D

Acq: 21 Sep 2020 10:36

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 959920

Ion Ratio Lower Upper

43 100

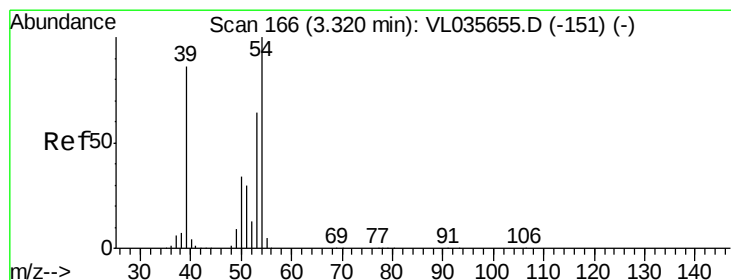
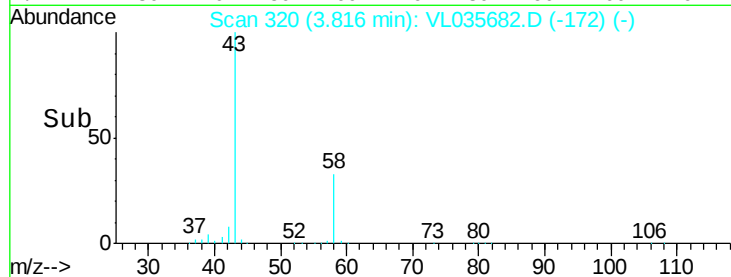
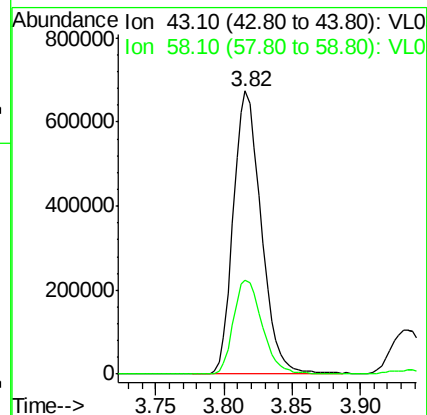
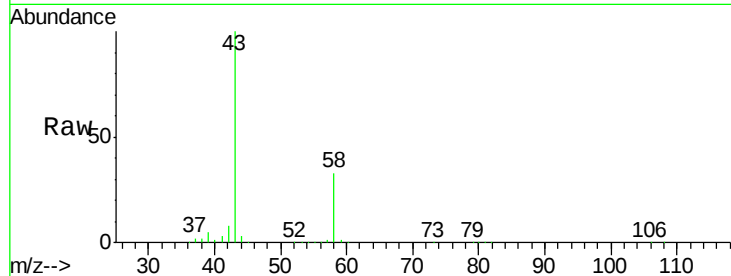
58 34.5 28.4 42.6

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#16

1,3-Butadiene

Concen: 10.460 ppbv

RT: 3.29 min Scan# 158

Delta R.T. -0.02 min

Lab File: VL035682.D

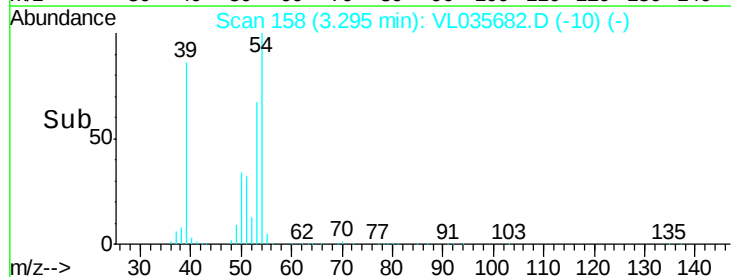
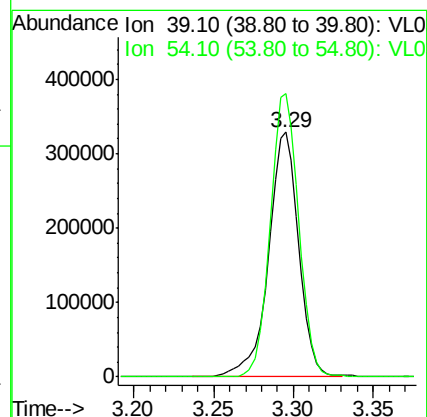
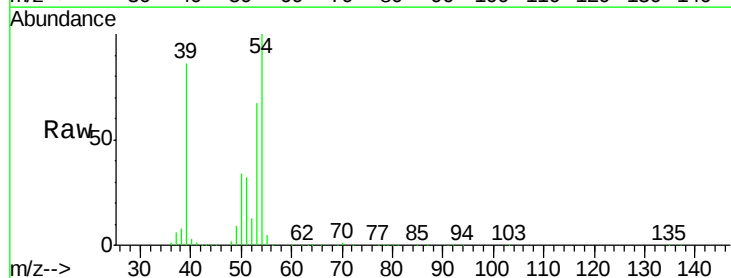
Acq: 21 Sep 2020 10:36

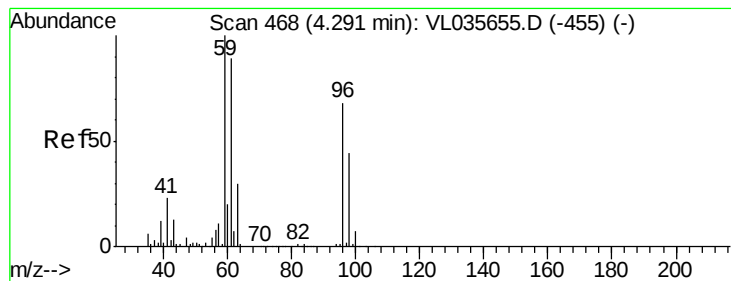
Tgt Ion: 39 Resp: 430015

Ion Ratio Lower Upper

39 100

54 110.0 88.4 132.6





#17

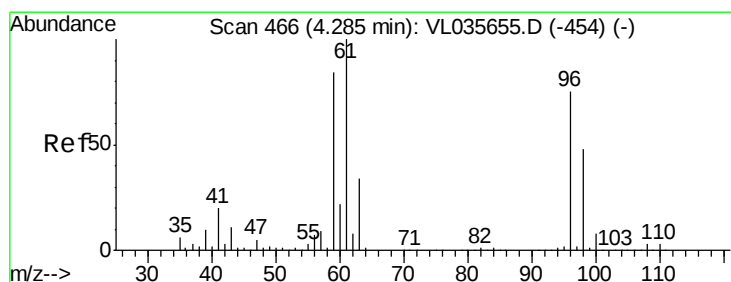
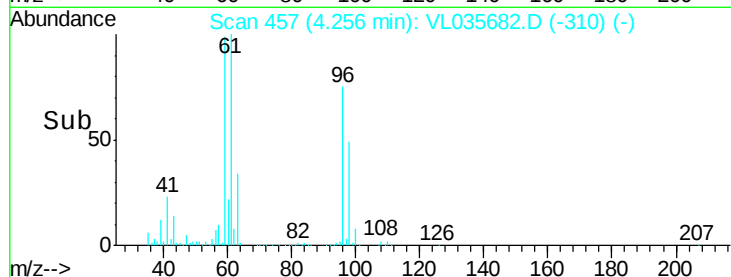
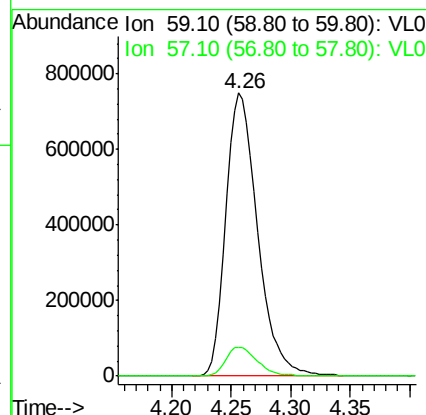
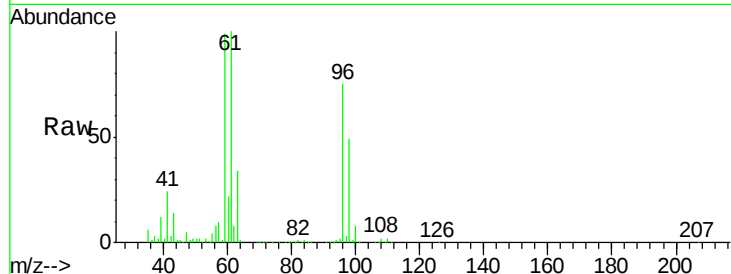
tert-Butyl alcohol  
 Concen: 10.344 ppbv  
 RT: 4.26 min Scan# 457  
 Delta R.T. -0.03 min  
 Lab File: VL035682.D  
 Acq: 21 Sep 2020 10:36

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tot Ion: 59 Resp: 1390449  
 Ion Ratio Lower Upper  
 59 100  
 57 10.3 8.4 12.6

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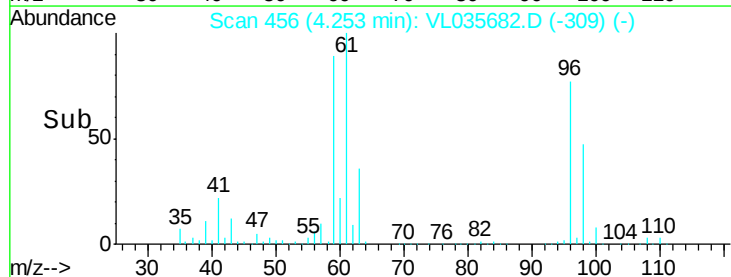
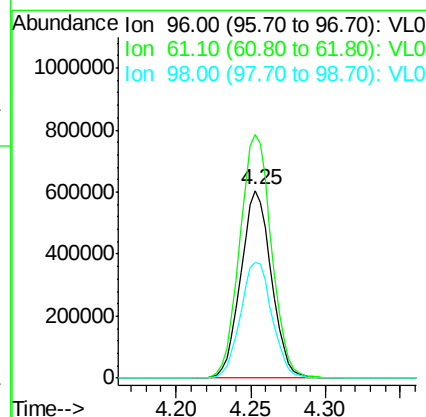
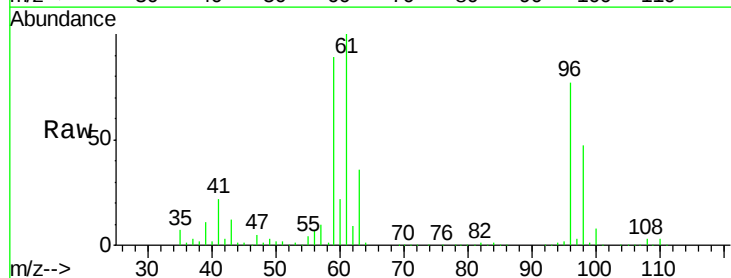
MMDadoda  
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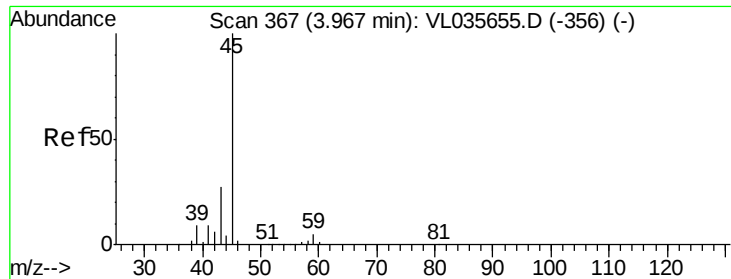


#18

1,1-Dichloroethene  
 Concen: 10.245 ppbv  
 RT: 4.25 min Scan# 456  
 Delta R.T. -0.03 min  
 Lab File: VL035682.D  
 Acq: 21 Sep 2020 10:36

Tgt Ion: 96 Resp: 861667  
 Ion Ratio Lower Upper  
 96 100  
 61 129.9 103.0 154.6  
 98 61.7 52.8 79.2





#19

Isopropyl Alcohol

Concen: 10.165 ppbv

RT: 3.93 min Scan# 357

Delta R.T. -0.02 min

Lab File: VL035682.D

Acq: 21 Sep 2020 10:36

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion: 45 Resp: 669645

Ion Ratio Lower Upper

45 100

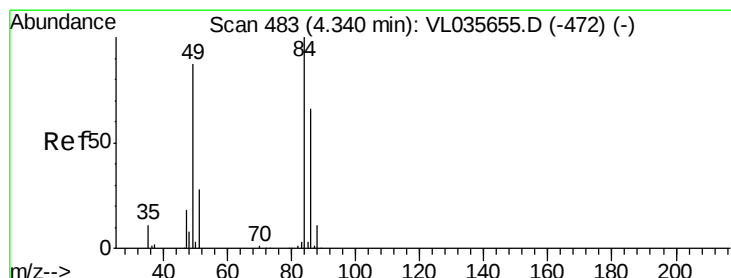
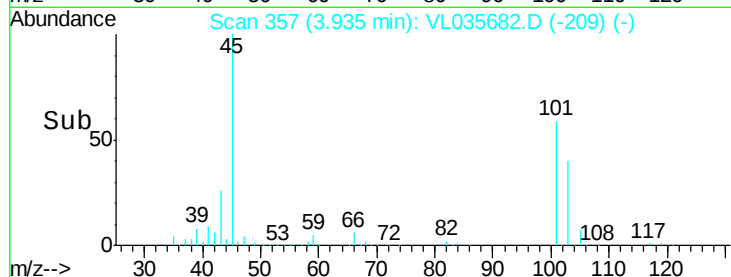
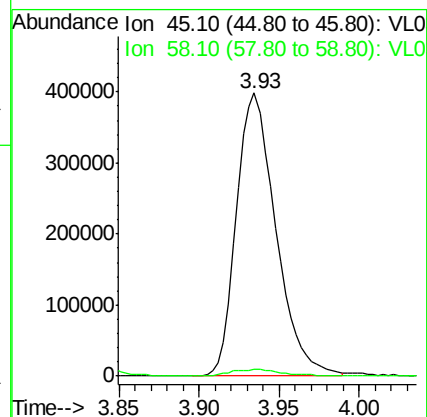
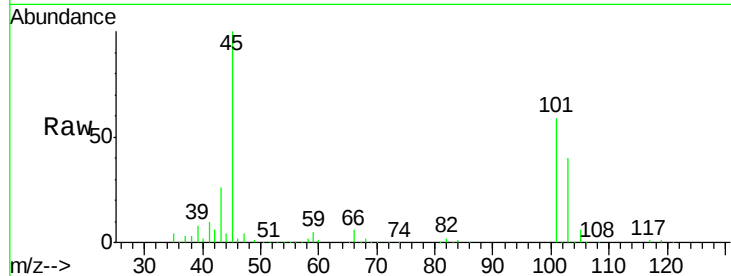
58 3.6 2.0 3.0#

Manual Integrations

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#20

Methylene Chloride

Concen: 8.495 ppbv

RT: 4.31 min Scan# 473

Delta R.T. -0.03 min

Lab File: VL035682.D

Acq: 21 Sep 2020 10:36

Tgt Ion: 84 Resp: 698729

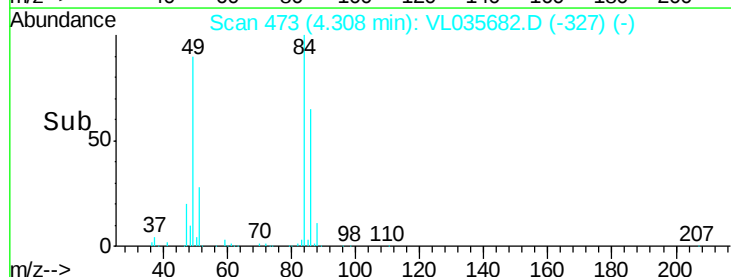
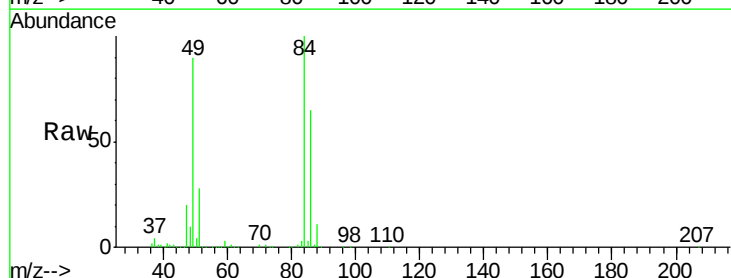
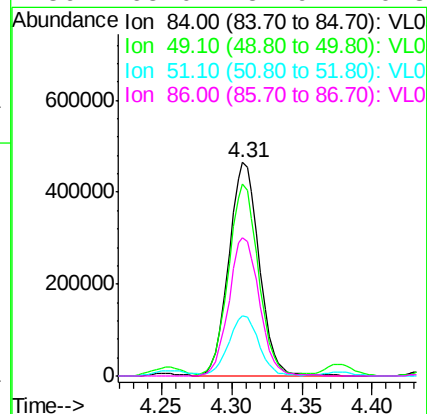
Ion Ratio Lower Upper

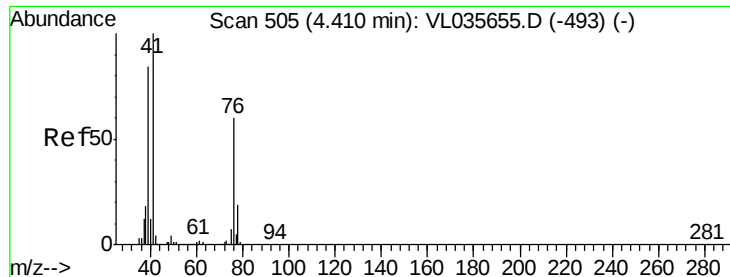
84 100

49 88.9 65.4 98.0

51 27.0 21.5 32.3

86 65.0 52.9 79.3





#21

Allvl Chloride

Concen: 11.266 ppbv

RT: 4.38 min Scan# 494

Delta R.T. -0.03 min

Lab File: VL035682.D

Acq: 21 Sep 2020 10:36

Instrument :

MSVOA\_L

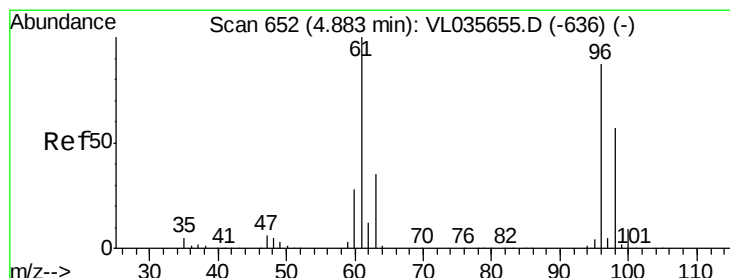
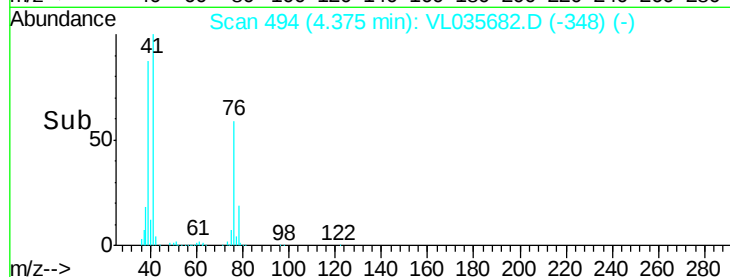
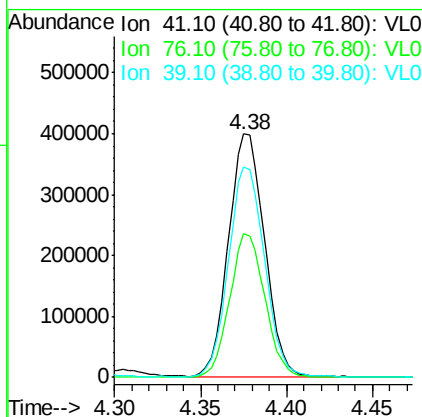
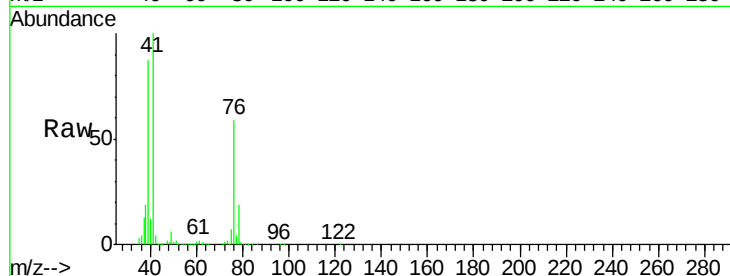
ClientSampleId :

VSTDCCC010

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 41    | Resp: | 582887 |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 76       | 57.7  | 46.2  | 69.2   |
| 39       | 87.1  | 67.8  | 101.6  |

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#22

trans-1,2-Dichloroethene

Concen: 9.985 ppbv

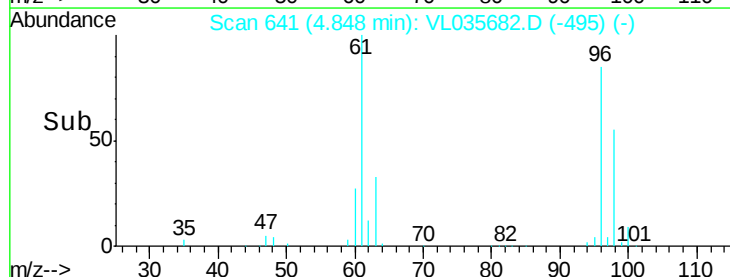
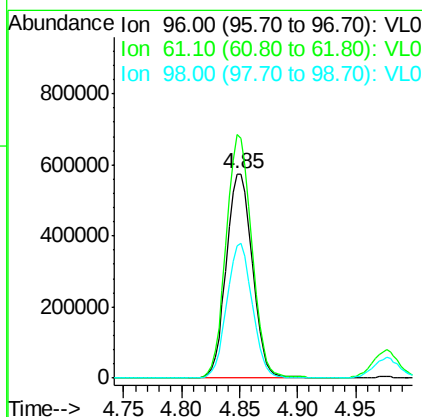
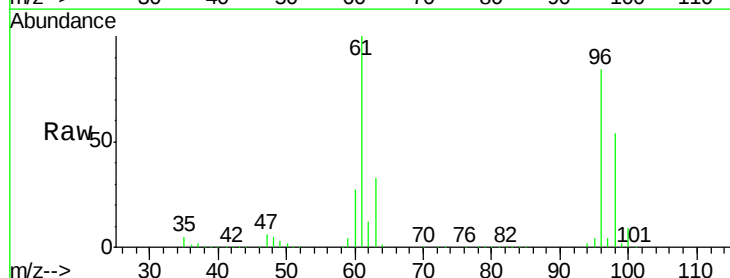
RT: 4.85 min Scan# 641

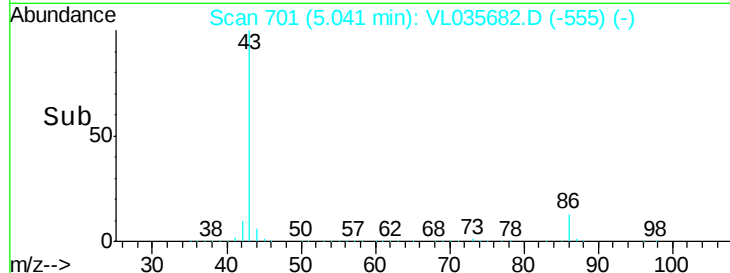
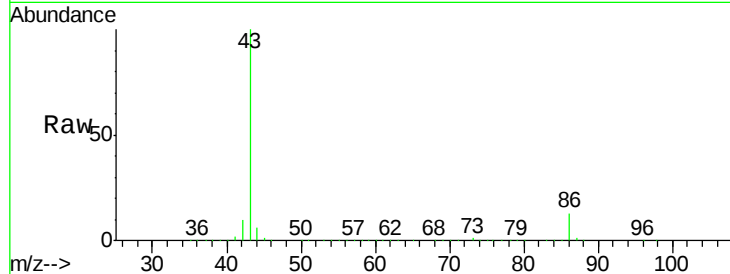
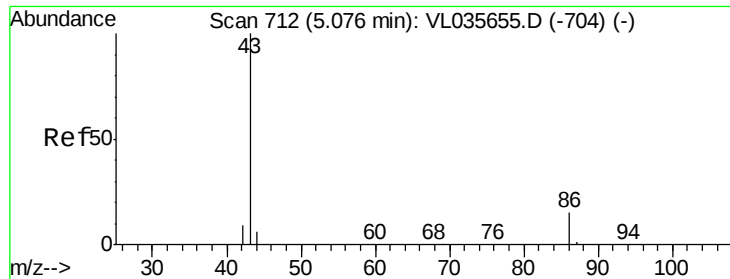
Delta R.T. -0.03 min

Lab File: VL035682.D

Acq: 21 Sep 2020 10:36

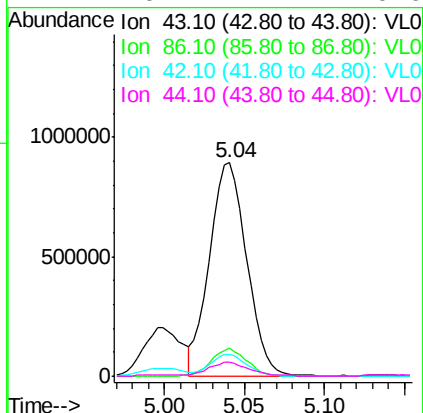
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 96    | Resp: | 894003 |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 119.0 | 86.0  | 129.0  |
| 98       | 64.8  | 52.3  | 78.5   |





#23  
 Vinyl Acetate  
 Concen: 10.076 ppbv  
 RT: 5.04 min Scan# 701  
 Delta R.T. -0.03 min  
 Lab File: VL035682.D  
 Acq: 21 Sep 2020 10:36

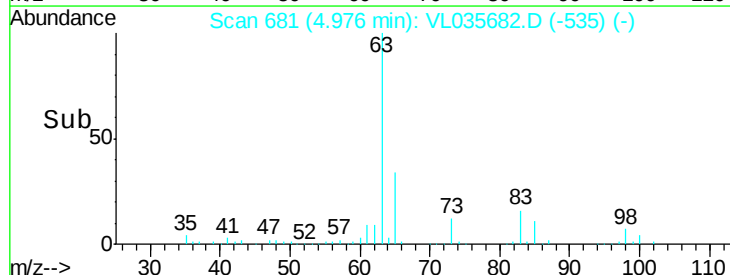
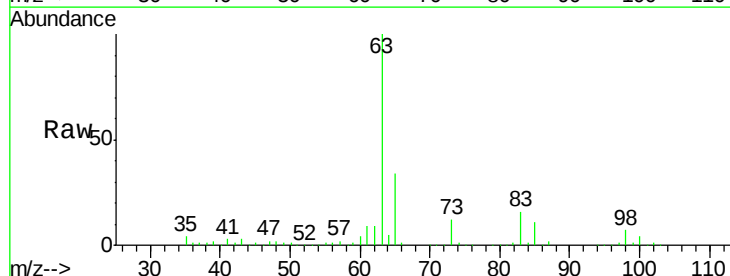
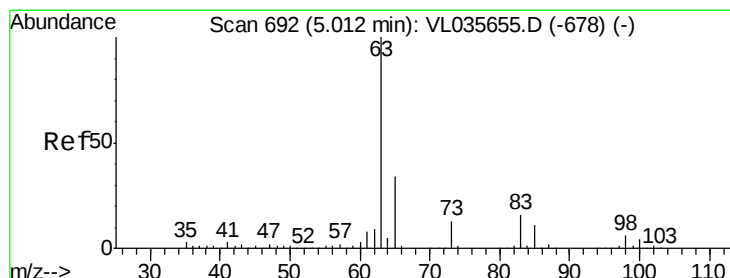
| Tot Ion: | 43    | Resp: | 1428183 |
|----------|-------|-------|---------|
| Ion      | Ratio | Lower | Upper   |
| 43       | 100   |       |         |
| 86       | 13.3  | 10.6  | 16.0    |
| 42       | 10.0  | 7.5   | 11.3    |
| 44       | 6.2   | 4.4   | 6.6     |



Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

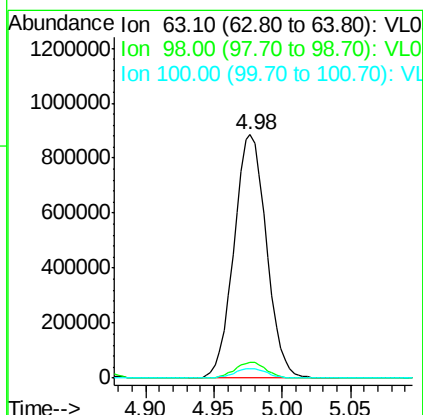
Manual Integrations  
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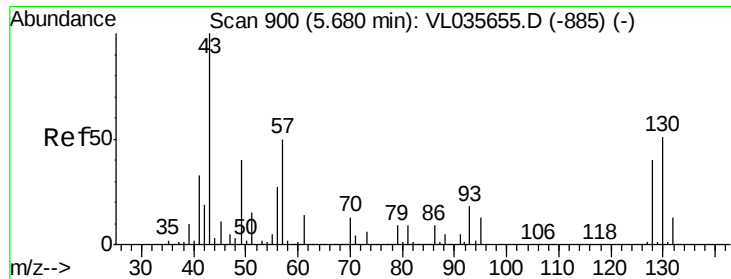
MMDadoda  
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#24  
 1,1-Dichloroethane  
 Concen: 10.016 ppbv  
 RT: 4.98 min Scan# 681  
 Delta R.T. -0.03 min  
 Lab File: VL035682.D  
 Acq: 21 Sep 2020 10:36

| Tgt Ion: | 63    | Resp: | 1460954 |
|----------|-------|-------|---------|
| Ion      | Ratio | Lower | Upper   |
| 63       | 100   |       |         |
| 98       | 6.5   | 3.4   | 10.1    |
| 100      | 4.0   | 2.1   | 6.5     |





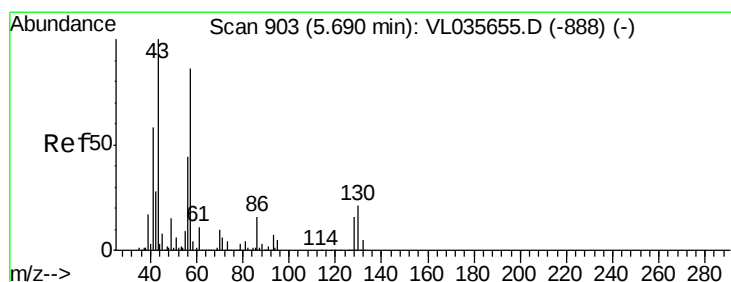
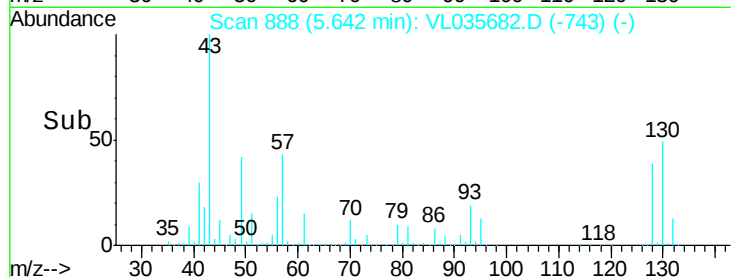
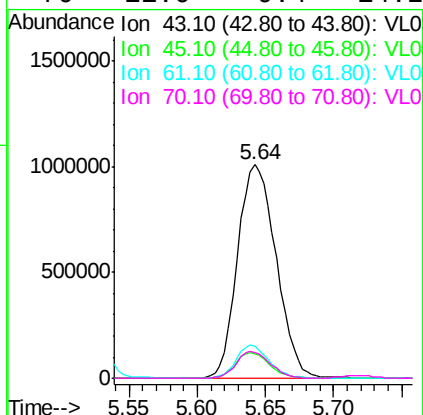
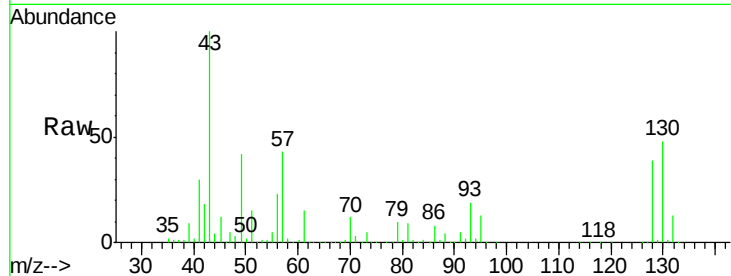
#25  
Ethyl Acetate  
Concen: 10.157 ppbv  
RT: 5.64 min Scan# 888  
Delta R.T. -0.03 min  
Lab File: VL035682.D  
Acq: 21 Sep 2020 10:36

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 43      | 100  |       |       |       |
| 45      | 10.6 | 8.4   | 12.6  |       |
| 61      | 13.2 | 10.6  | 16.0  |       |
| 70      | 11.0 | 9.4   | 14.2  |       |

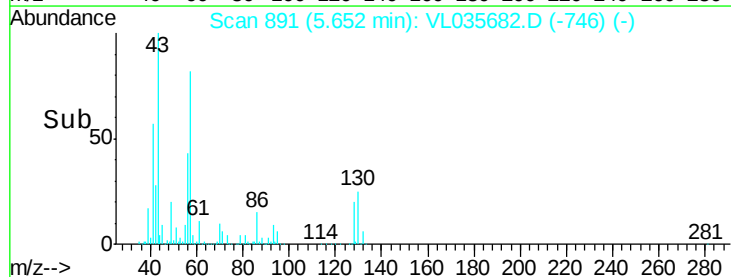
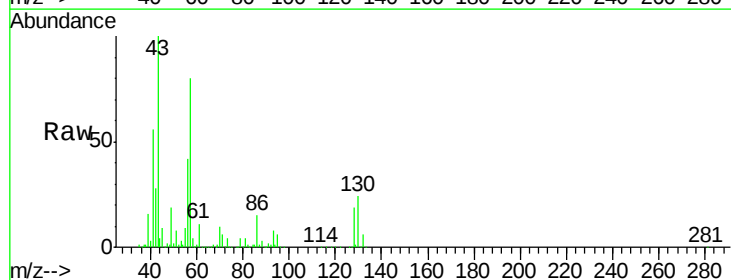
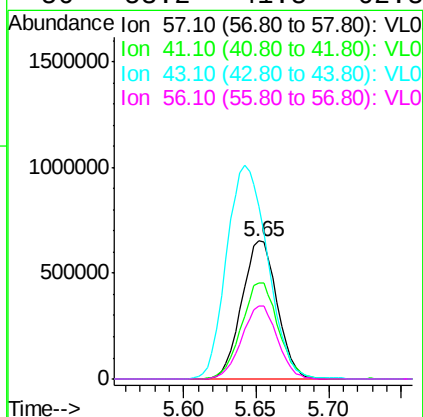
Manual Integrations  
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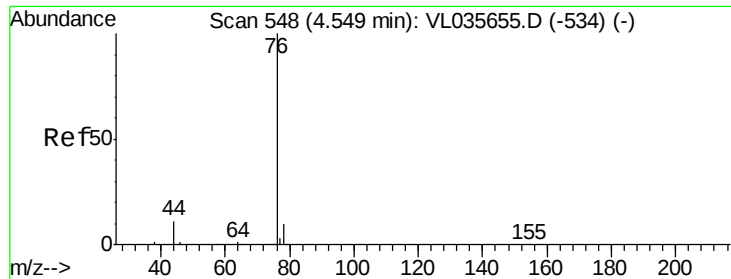
MMDadoda  
9/22/2020 2:05:54 PM



#26  
Hexane  
Concen: 10.048 ppbv  
RT: 5.65 min Scan# 891  
Delta R.T. -0.03 min  
Lab File: VL035682.D  
Acq: 21 Sep 2020 10:36

| Tgt Ion | Ion   | Ratio | Lower | Upper |
|---------|-------|-------|-------|-------|
| 57      | 100   |       |       |       |
| 41      | 73.3  | 55.9  | 83.9  |       |
| 43      | 179.0 | 141.8 | 212.8 |       |
| 56      | 53.2  | 41.8  | 62.8  |       |





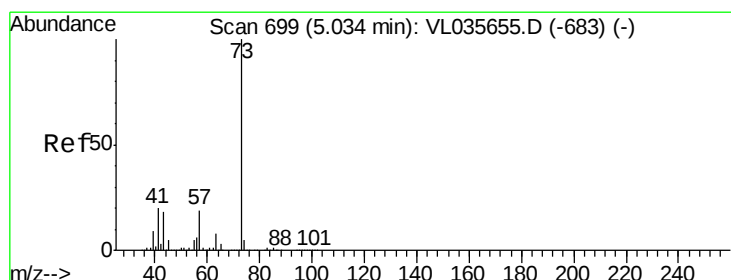
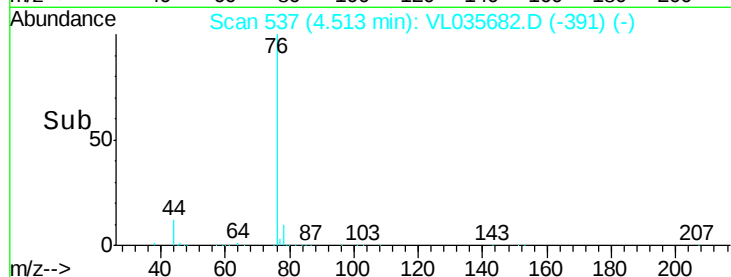
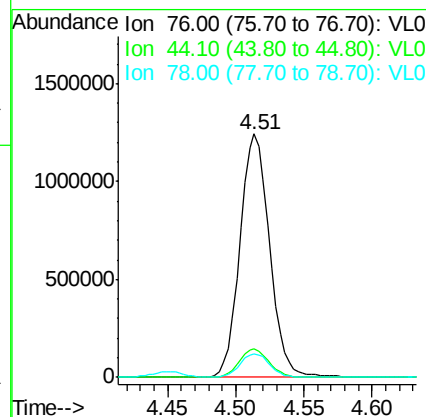
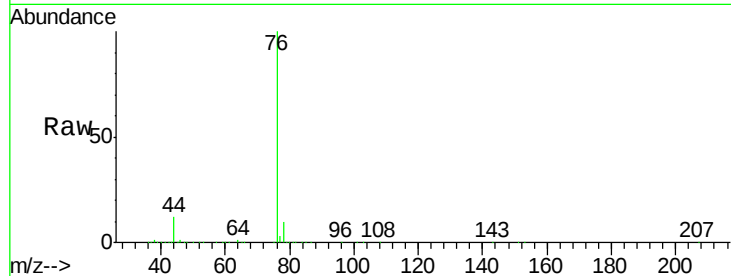
#27  
Carbon Disulfide  
Concen: 11.814 ppbv  
RT: 4.51 min Scan# 537  
Delta R.T. -0.03 min  
Lab File: VL035682.D  
Acq: 21 Sep 2020 10:36

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

| Tot Ion | Ion | Ratio | Lower | Upper |
|---------|-----|-------|-------|-------|
| 76      | 76  | 100   |       |       |
| 44      | 44  | 12.0  | 9.3   | 13.9  |
| 78      | 78  | 9.7   | 7.8   | 11.6  |

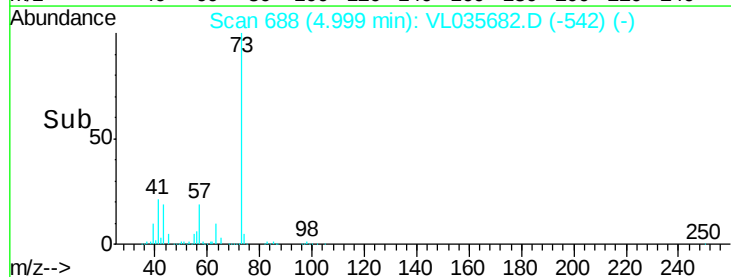
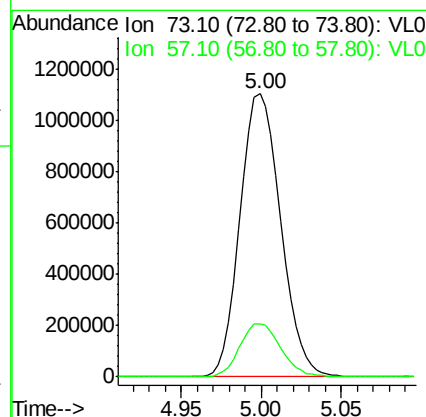
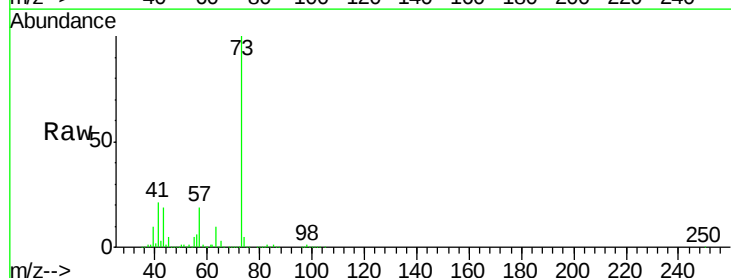
Manual Integrations  
APPROVED

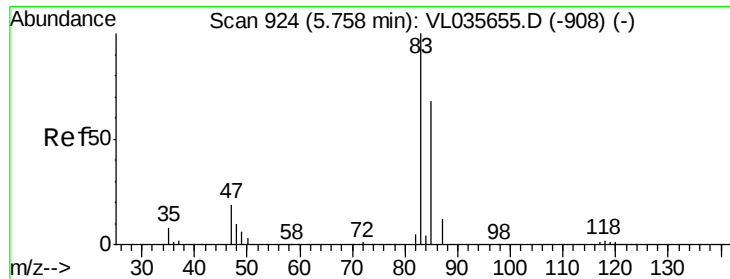
MMDadoda  
9/22/2020 2:05:54 PM



#28  
Methyl tert-Butyl Ether  
Concen: 9.932 ppbv  
RT: 5.00 min Scan# 688  
Delta R.T. -0.03 min  
Lab File: VL035682.D  
Acq: 21 Sep 2020 10:36

| Tgt Ion | Ion | Ratio | Lower | Upper |
|---------|-----|-------|-------|-------|
| 73      | 73  | 100   |       |       |
| 57      | 57  | 19.1  | 15.2  | 22.8  |





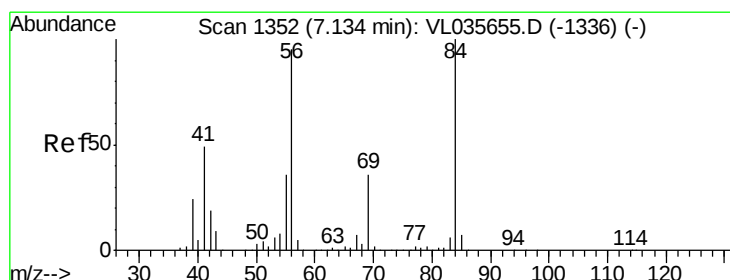
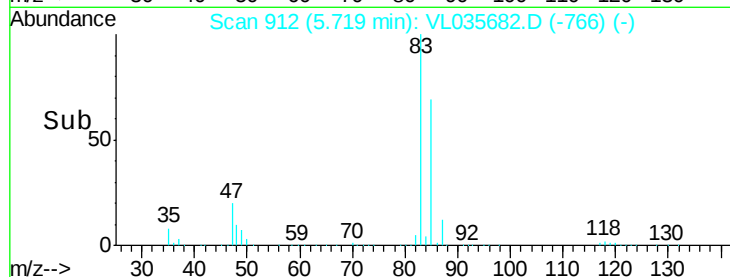
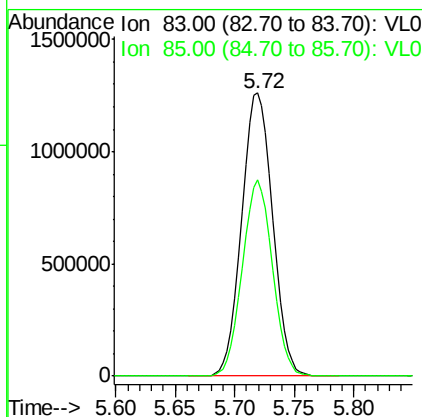
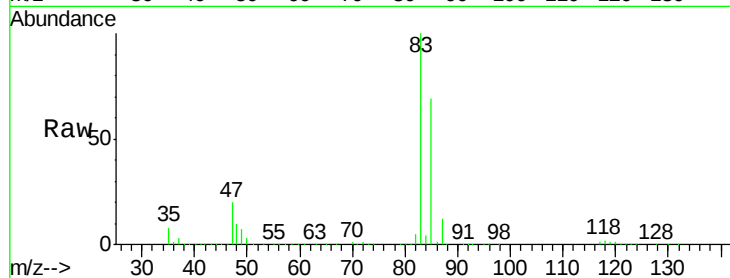
#29  
Chloroform  
Concen: 10.122 ppbv  
RT: 5.72 min Scan# 912  
Delta R.T. -0.03 min  
Lab File: VL035682.D  
Acq: 21 Sep 2020 10:36

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tot Ion: 83 Resp: 2279674  
Ion Ratio Lower Upper  
83 100  
85 69.3 53.9 80.9

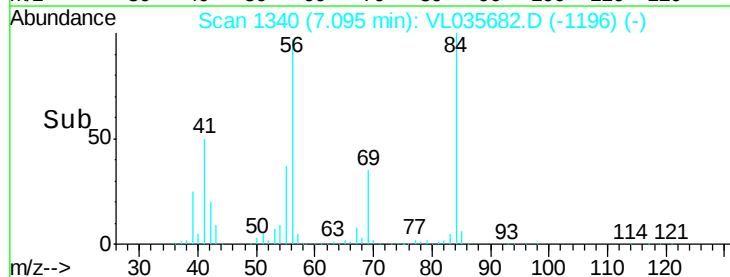
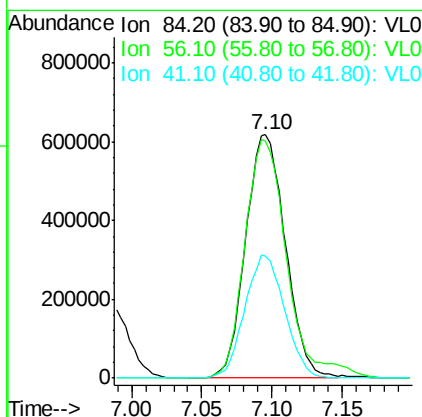
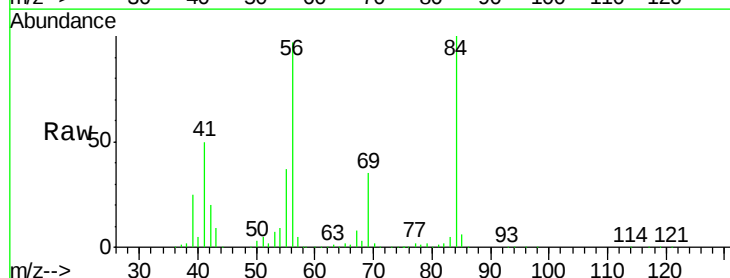
Manual Integrations  
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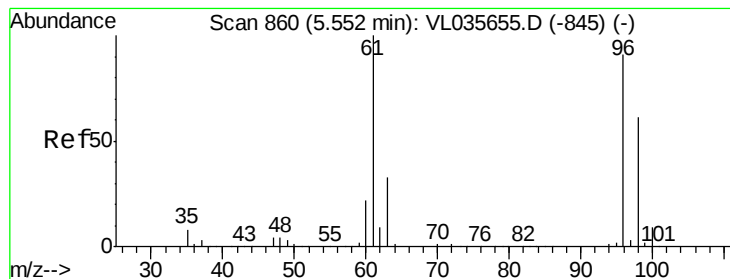
MMDadoda  
9/22/2020 2:05:54 PM



#30  
Cyclohexane  
Concen: 10.306 ppbv  
RT: 7.10 min Scan# 1340  
Delta R.T. -0.04 min  
Lab File: VL035682.D  
Acq: 21 Sep 2020 10:36

Tgt Ion: 84 Resp: 1220463  
Ion Ratio Lower Upper  
84 100  
56 103.5 80.1 120.1  
41 50.8 38.1 57.1





#31

cis-1,2-Dichloroethene

Concen: 10.295 ppbv

RT: 5.51 min Scan# 848

Delta R.T. -0.03 min

Lab File: VL035682.D

Acq: 21 Sep 2020 10:36

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion: 61 Resp: 1167508

Ion Ratio Lower Upper

61 100

96 90.1 74.4 111.6

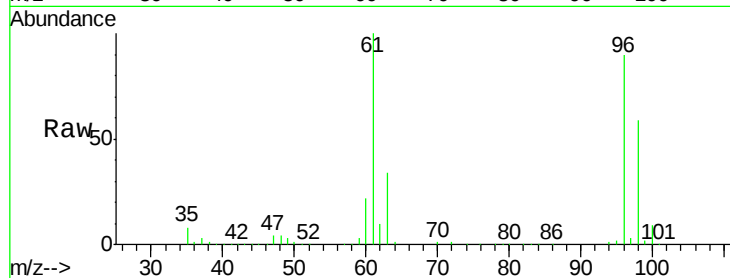
98 59.2 49.2 73.8

Manual Integrations

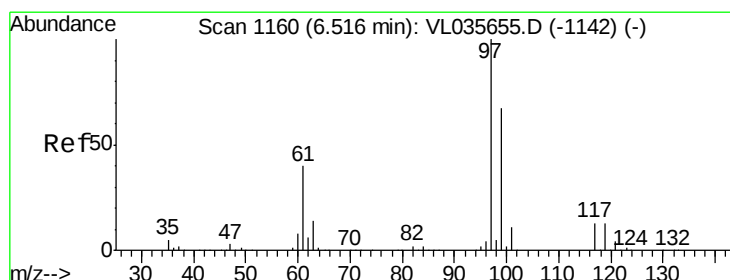
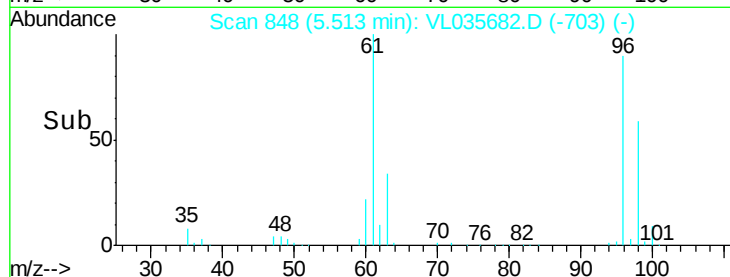
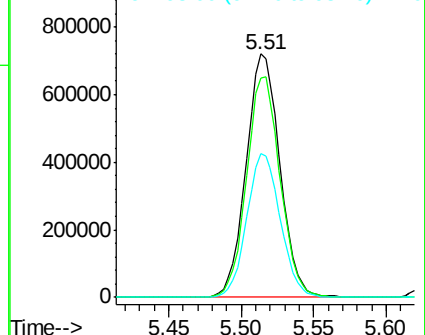
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Abundance Ion 61.10 (60.80 to 61.80): VL0  
Ion 96.00 (95.70 to 96.70): VL0  
Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 10.167 ppbv

RT: 6.48 min Scan# 1148

Delta R.T. -0.03 min

Lab File: VL035682.D

Acq: 21 Sep 2020 10:36

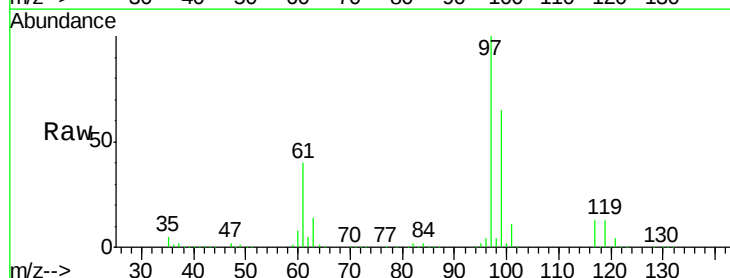
Tgt Ion: 97 Resp: 2221284

Ion Ratio Lower Upper

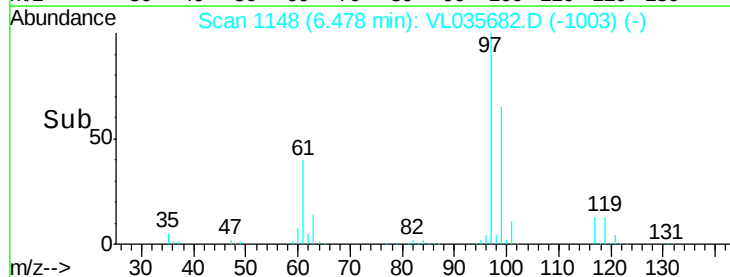
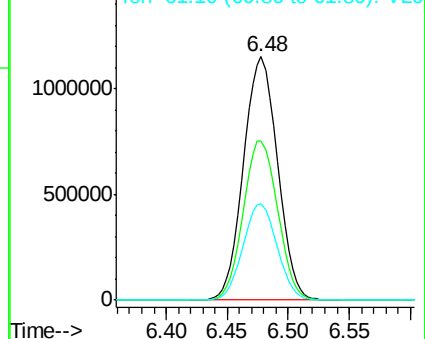
97 100

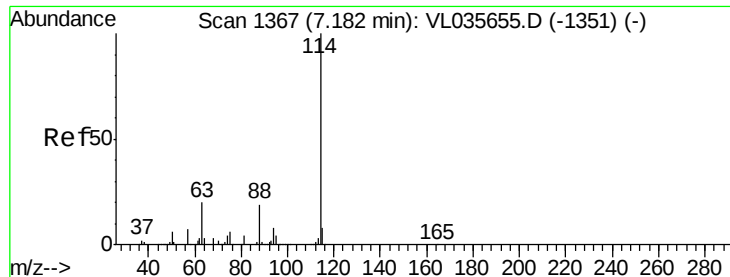
99 66.1 53.3 79.9

61 39.9 30.6 46.0



Abundance Ion 97.00 (96.70 to 97.70): VL0  
Ion 99.00 (98.70 to 99.70): VL0  
Ion 61.10 (60.80 to 61.80): VL0





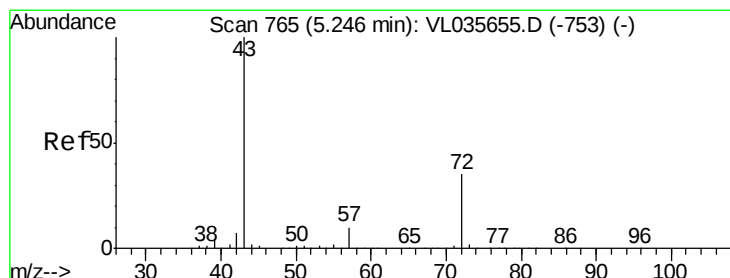
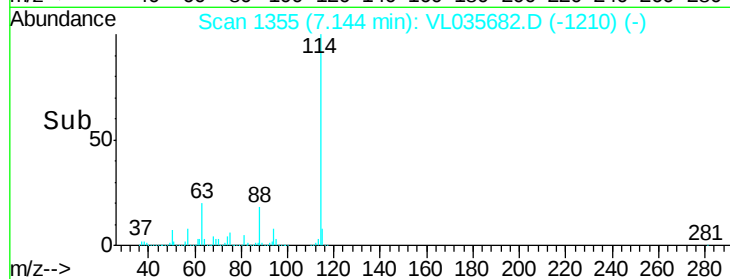
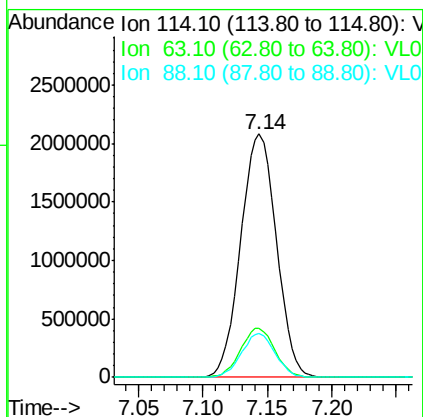
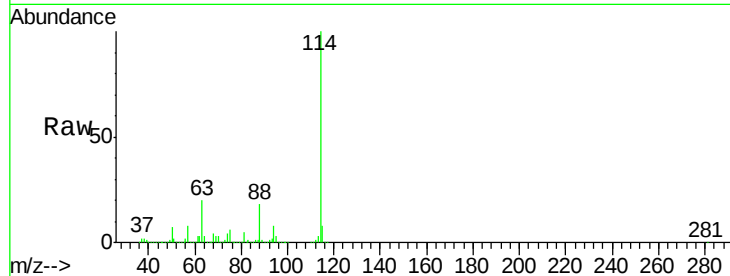
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.14 min Scan# 1355  
 Delta R.T. -0.03 min  
 Lab File: VL035682.D  
 Acq: 21 Sep 2020 10:36

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tot Ion:114 Resp: 4013475  
 Ion Ratio Lower Upper  
 114 100  
 63 19.5 14.7 22.1  
 88 17.1 13.4 20.2

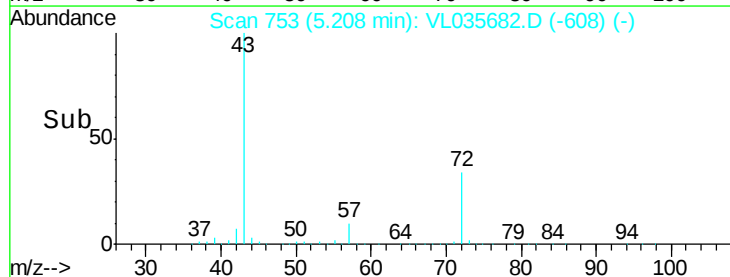
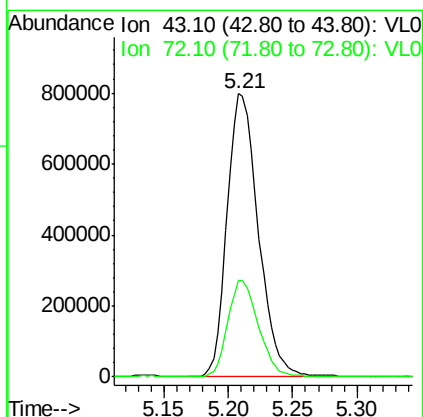
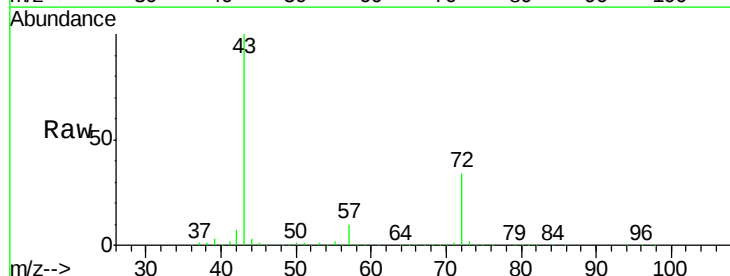
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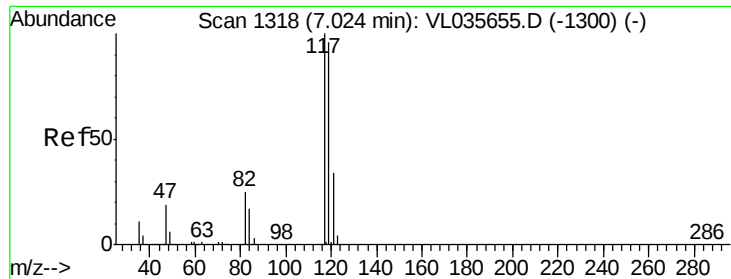
MMDadoda  
 9/22/2020 2:05:54 PM



#34  
 2-Butanone  
 Concen: 11.251 ppbv  
 RT: 5.21 min Scan# 753  
 Delta R.T. -0.03 min  
 Lab File: VL035682.D  
 Acq: 21 Sep 2020 10:36

Tgt Ion: 43 Resp: 1340141  
 Ion Ratio Lower Upper  
 43 100  
 72 33.6 27.7 41.5





#35

Carbon Tetrachloride

Concen: 11.503 ppbv

RT: 6.98 min Scan# 1305

Delta R.T. -0.04 min

Lab File: VL035682.D

Acq: 21 Sep 2020 10:36

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion:117 Resp: 2320293

Ion Ratio Lower Upper

117 100

119 94.7 77.2 115.8

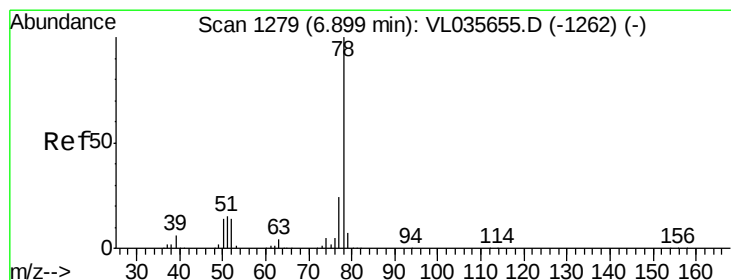
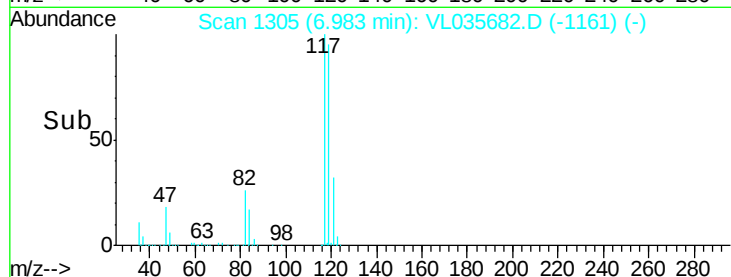
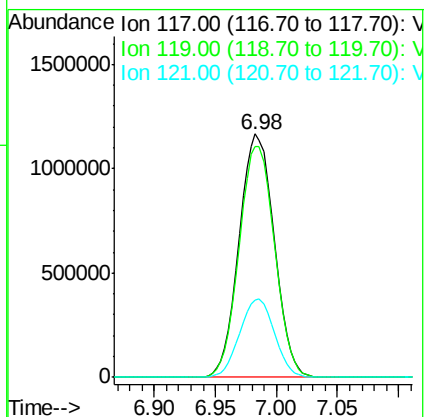
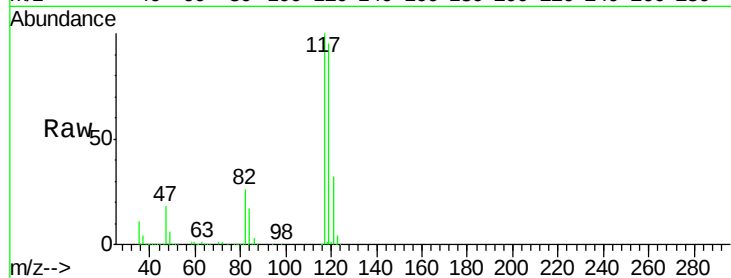
121 31.6 26.1 39.1

Manual Integrations

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#36

Benzene

Concen: 10.813 ppbv

RT: 6.86 min Scan# 1266

Delta R.T. -0.04 min

Lab File: VL035682.D

Acq: 21 Sep 2020 10:36

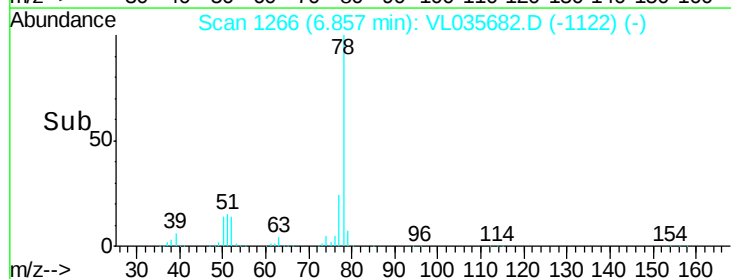
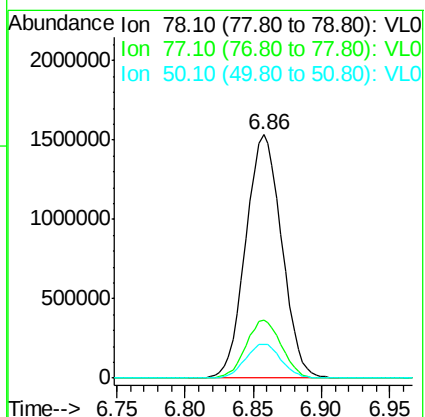
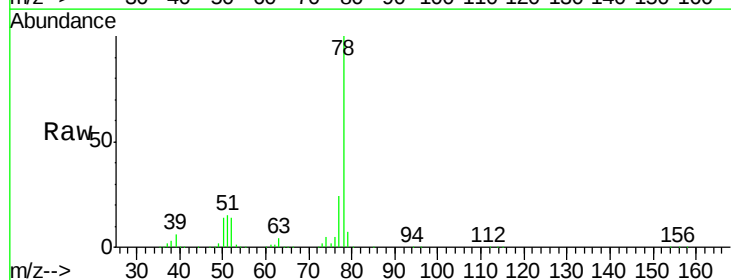
Tgt Ion: 78 Resp: 2809078

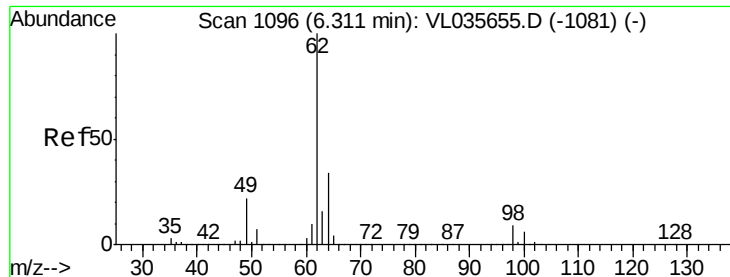
Ion Ratio Lower Upper

78 100

77 23.8 19.3 28.9

50 14.0 11.0 16.6





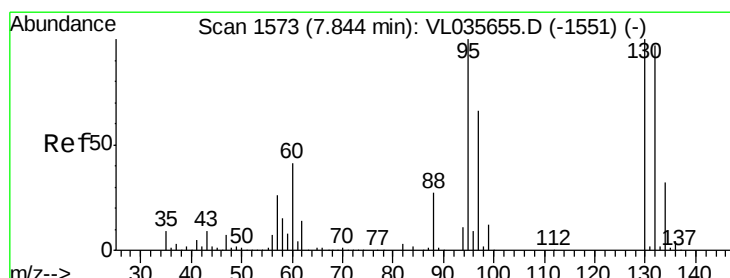
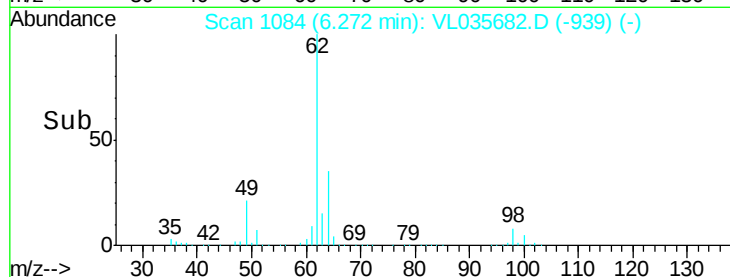
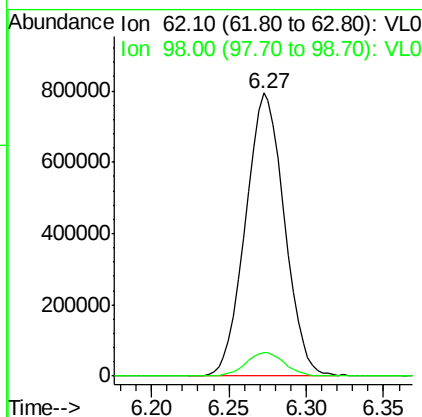
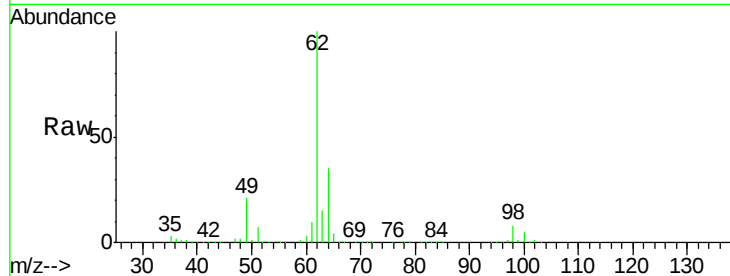
#37  
 1,2-Dichloroethane  
 Concen: 11.238 ppbv  
 RT: 6.27 min Scan# 1084  
 Delta R.T. -0.03 min  
 Lab File: VL035682.D  
 Acq: 21 Sep 2020 10:36

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tot Ion: 62 Resp: 1391915  
 Ion Ratio Lower Upper  
 62 100  
 98 8.4 7.4 11.0

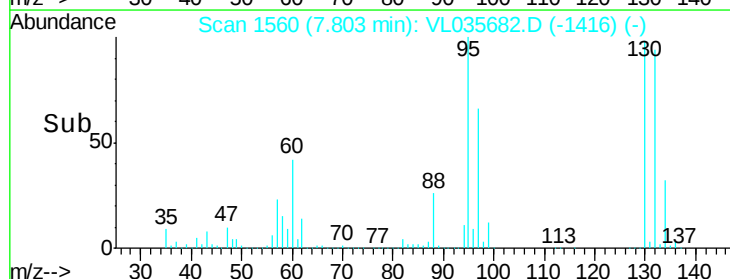
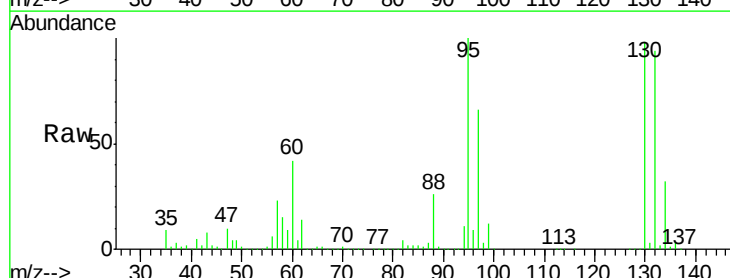
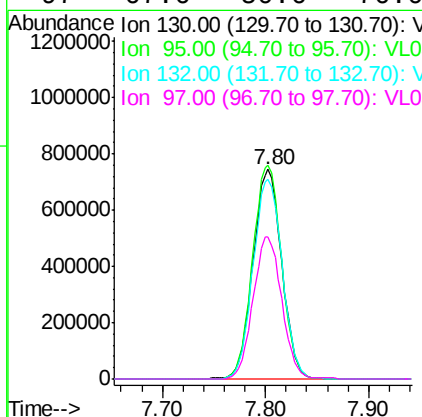
Manual Integrations  
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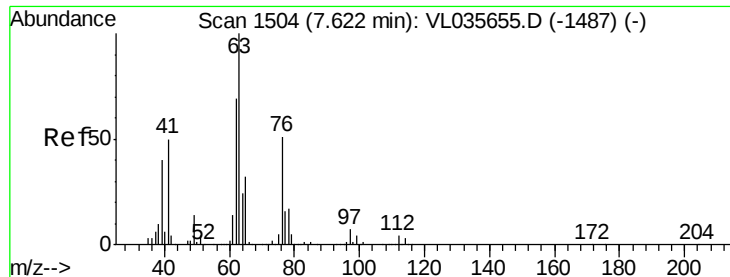
MMDadoda  
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#38  
 Trichloroethene  
 Concen: 9.511 ppbv  
 RT: 7.80 min Scan# 1560  
 Delta R.T. -0.04 min  
 Lab File: VL035682.D  
 Acq: 21 Sep 2020 10:36

Tgt Ion:130 Resp: 1435256  
 Ion Ratio Lower Upper  
 130 100  
 95 101.9 74.6 112.0  
 132 95.5 77.6 116.4  
 97 67.6 50.6 76.0





#39

1,2-Dichloropropane

Concen: 10.843 ppbv

RT: 7.58 min Scan# 1491

Delta R.T. -0.03 min

Lab File: VL035682.D

Acq: 21 Sep 2020 10:36

Instrument :

MSVOA\_L

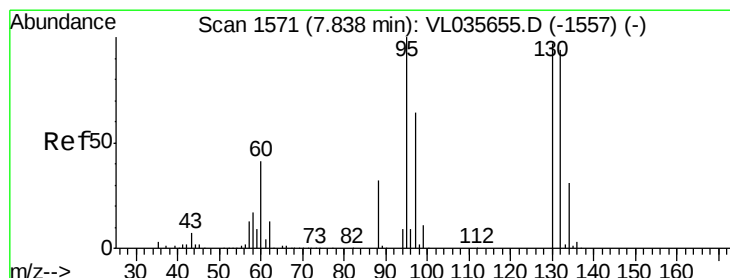
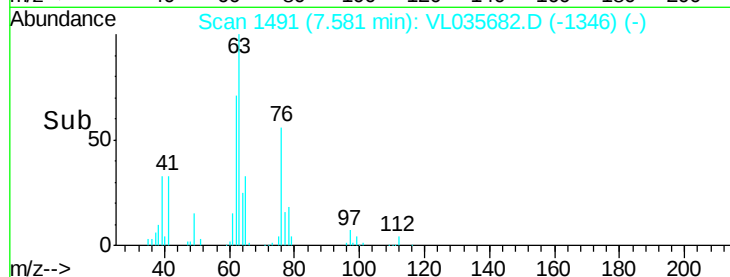
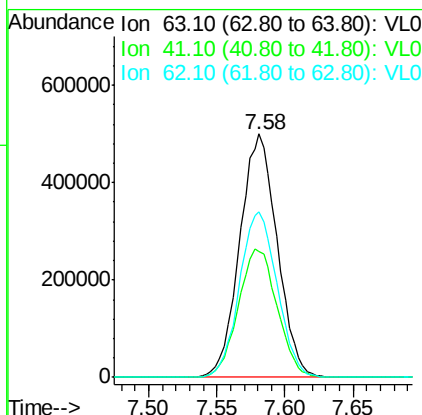
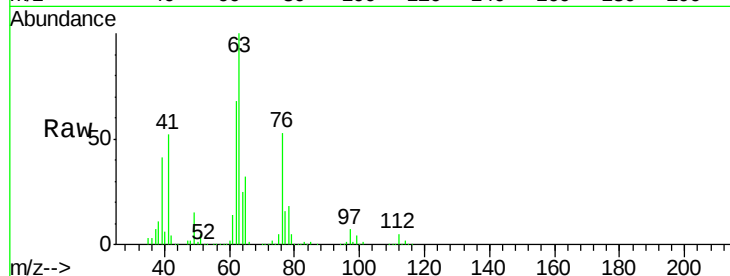
ClientSampleId :

VSTDCCC010

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 63    | Resp: | 951575 |
| Ion Ratio | Lower | Upper |        |
| 63        | 100   |       |        |
| 41        | 51.9  | 40.0  | 60.0   |
| 62        | 68.0  | 55.4  | 83.0   |

Manual Integrations  
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#40

1,4-Dioxane

Concen: 11.548 ppbv

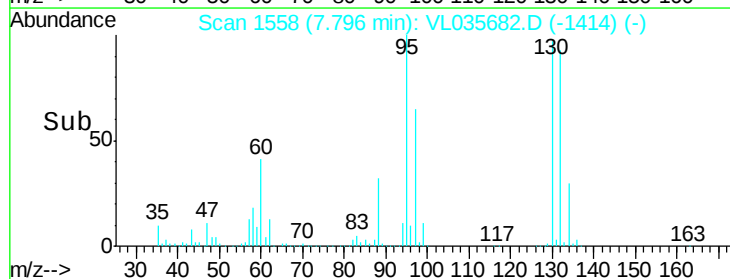
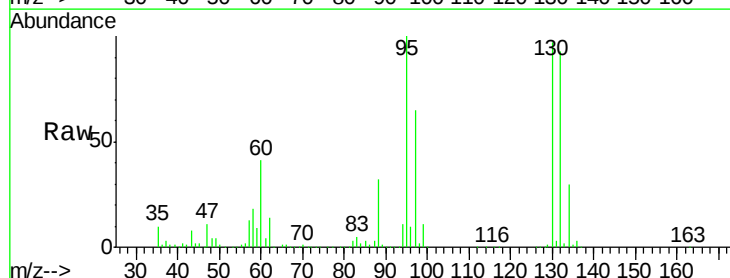
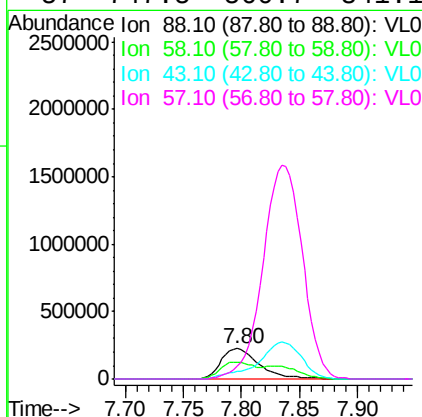
RT: 7.80 min Scan# 1558

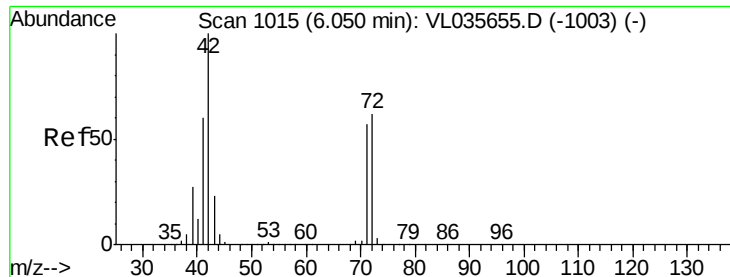
Delta R.T. -0.04 min

Lab File: VL035682.D

Acq: 21 Sep 2020 10:36

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 88    | Resp: | 506297 |
| Ion Ratio | Lower | Upper |        |
| 88        | 100   |       |        |
| 58        | 91.6  | 68.7  | 103.1  |
| 43        | 140.7 | 104.3 | 156.5  |
| 57        | 747.5 | 560.7 | 841.1  |





#41

Tetrahydrofuran

Concen: 11.879 ppbv

RT: 6.02 min Scan# 1004

Delta R.T. -0.03 min

Lab File: VL035682.D

Acq: 21 Sep 2020 10:36

Instrument :

MSVOA\_L

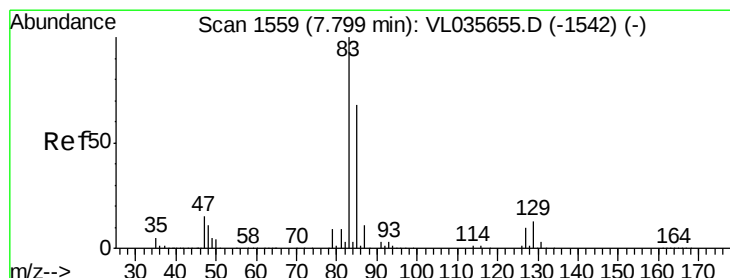
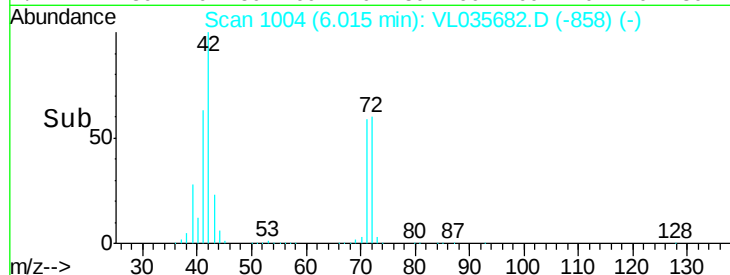
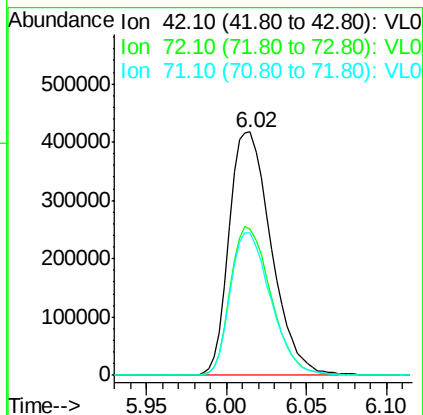
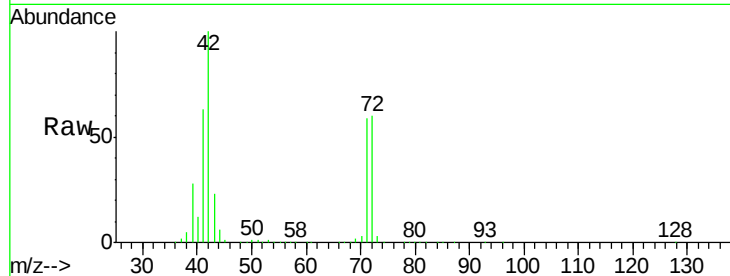
ClientSampleId :

VSTDCCC010

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 42    | Resp: | 750292 |
| Ion Ratio | Lower | Upper |        |
| 42        | 100   |       |        |
| 72        | 58.9  | 48.6  | 73.0   |
| 71        | 56.8  | 46.1  | 69.1   |

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#42

Bromodichloromethane

Concen: 11.850 ppbv

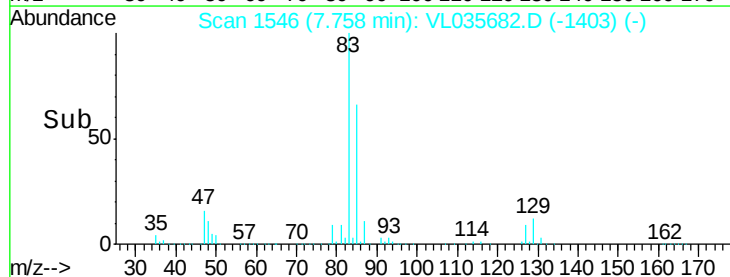
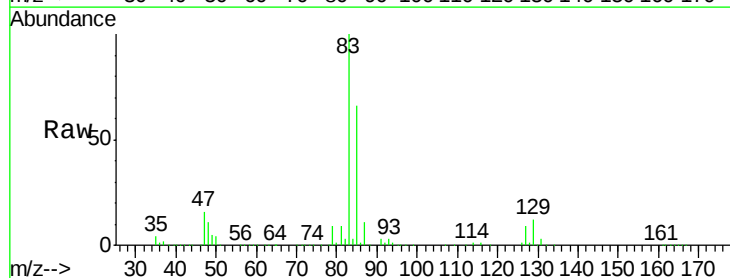
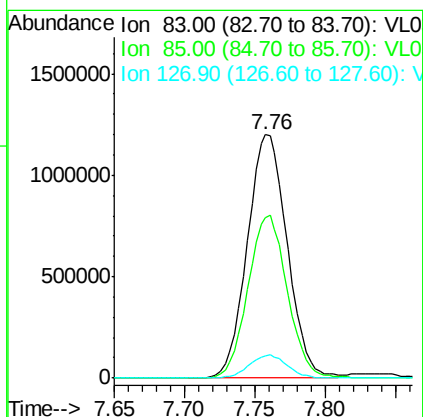
RT: 7.76 min Scan# 1546

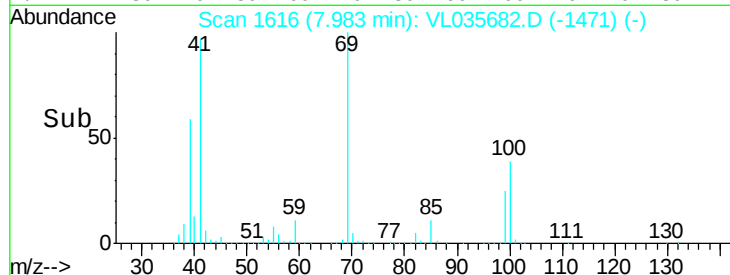
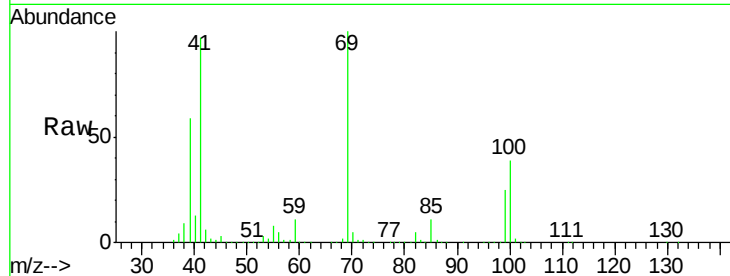
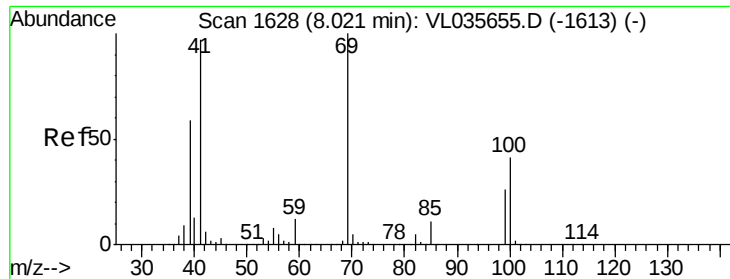
Delta R.T. -0.04 min

Lab File: VL035682.D

Acq: 21 Sep 2020 10:36

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 83    | Resp: | 2373608 |
| Ion Ratio | Lower | Upper |         |
| 83        | 100   |       |         |
| 85        | 65.8  | 53.7  | 80.5    |
| 127       | 9.4   | 8.1   | 12.1    |





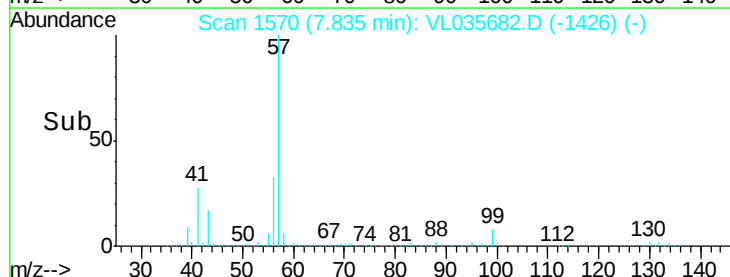
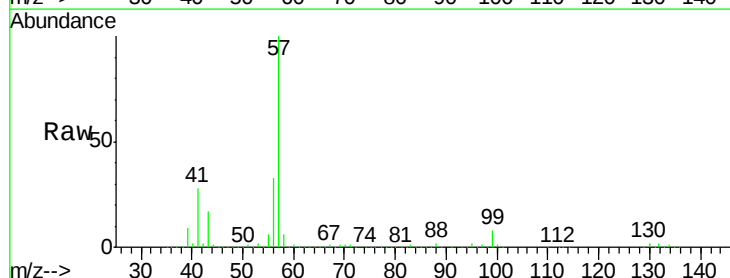
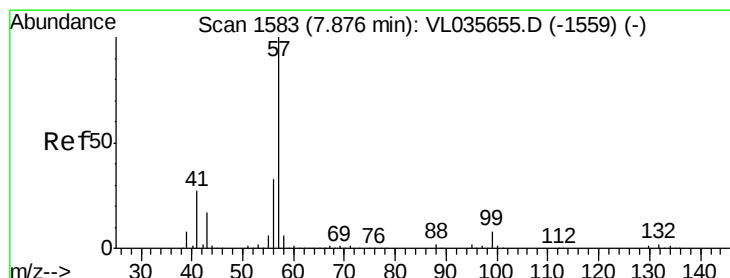
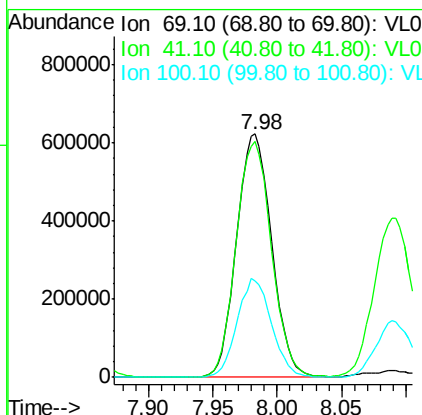
#43  
Methvl Methacrilate  
Concen: 11.775 ppbv  
RT: 7.98 min Scan# 1616  
Delta R.T. -0.03 min  
Lab File: VL035682.D  
Acq: 21 Sep 2020 10:36

Tot Ion: 69 Resp: 1182899  
Ion Ratio Lower Upper  
69 100  
41 97.7 76.6 114.8  
100 39.5 33.8 50.6

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

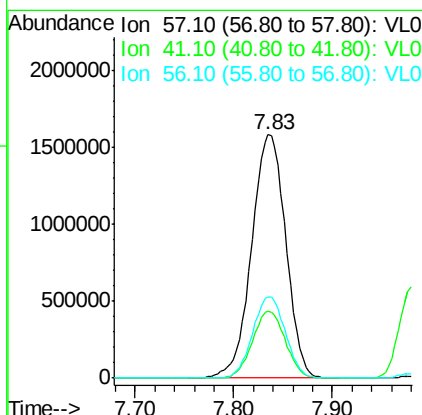
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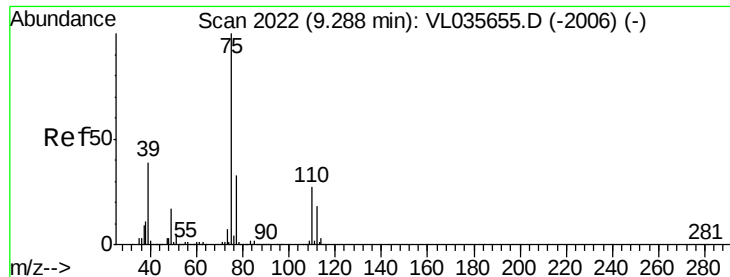
MMDadoda  
9/22/2020 2:05:54 PM



#44  
2,2,4-Trimethylpentane  
Concen: 11.064 ppbv  
RT: 7.83 min Scan# 1570  
Delta R.T. -0.04 min  
Lab File: VL035682.D  
Acq: 21 Sep 2020 10:36

Tgt Ion: 57 Resp: 3781984  
Ion Ratio Lower Upper  
57 100  
41 26.5 20.5 30.7  
56 32.0 25.3 37.9





#45

t-1,3-Dichloropropene

Concen: 13.106 ppbv

RT: 9.25 min Scan# 2009

Delta R.T. -0.04 min

Lab File: VL035682.D

Acq: 21 Sep 2020 10:36

Tot Ion: 75 Resp: 1333730

Ion Ratio Lower Upper

75 100

77 32.7 26.5 39.7

Instrument :

MSVOA\_L

ClientSampleId :

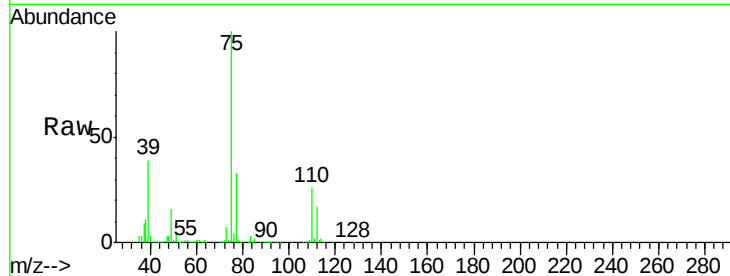
VSTDCCC010

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.25

800000

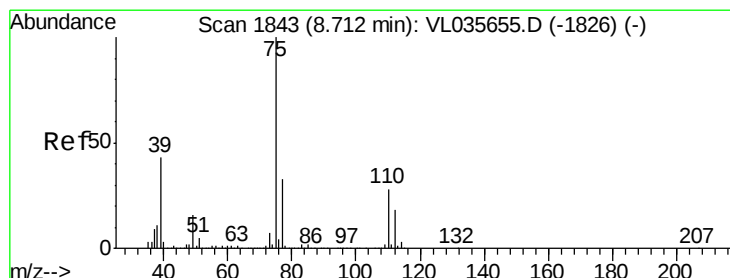
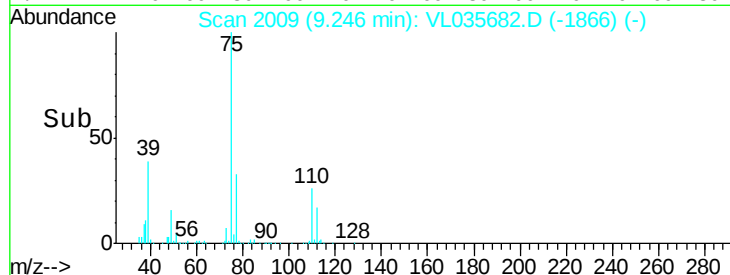
600000

400000

200000

0

Time--> 9.15 9.20 9.25 9.30 9.35



#46

cis-1,3-Dichloropropene

Concen: 12.494 ppbv

RT: 8.67 min Scan# 1830

Delta R.T. -0.04 min

Lab File: VL035682.D

Acq: 21 Sep 2020 10:36

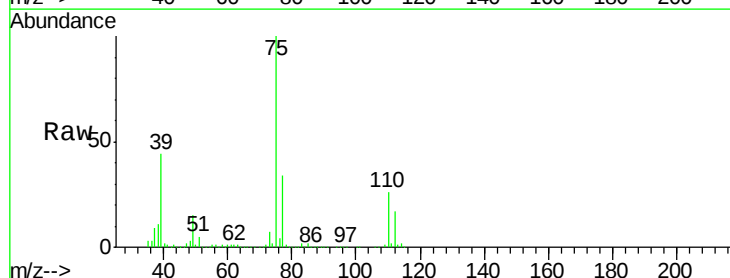
Tgt Ion: 75 Resp: 1578600

Ion Ratio Lower Upper

75 100

39 43.6 33.7 50.5

77 34.1 27.8 41.6



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

8.67

1000000

800000

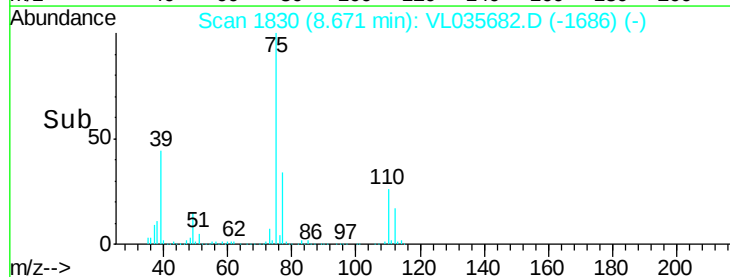
600000

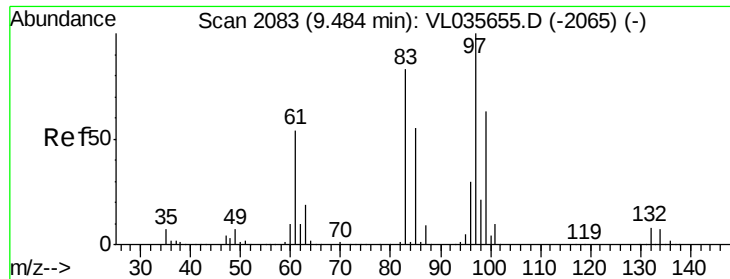
400000

200000

0

Time--> 8.60 8.65 8.70 8.75





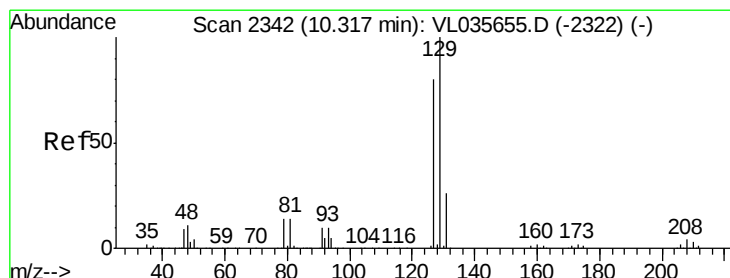
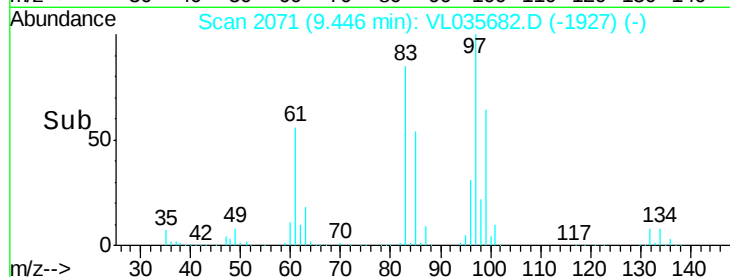
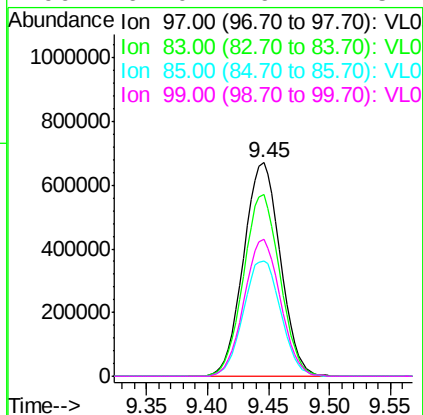
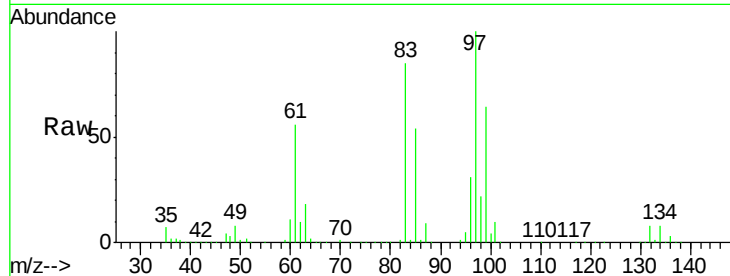
#47  
 1,1,2-Trichloroethane  
 Concen: 10.749 ppbv  
 RT: 9.45 min Scan# 2071  
 Delta R.T. -0.04 min  
 Lab File: VL035682.D  
 Acq: 21 Sep 2020 10:36

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 97      | 100  |       |       |       |
| 83      | 85.2 | 65.4  | 98.2  |       |
| 85      | 54.1 | 43.7  | 65.5  |       |
| 99      | 64.0 | 49.1  | 73.7  |       |

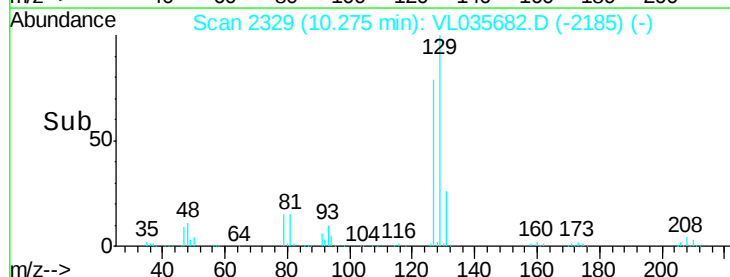
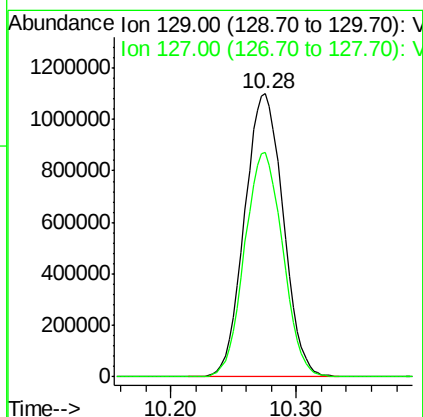
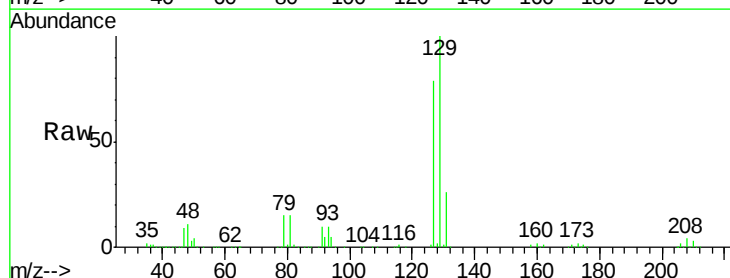
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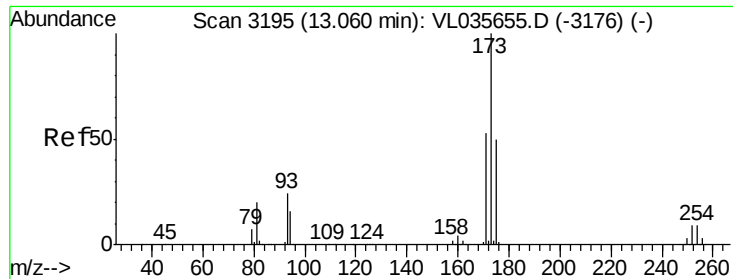
MMDadoda  
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#48  
 Dibromochloromethane  
 Concen: 11.576 ppbv  
 RT: 10.28 min Scan# 2329  
 Delta R.T. -0.04 min  
 Lab File: VL035682.D  
 Acq: 21 Sep 2020 10:36

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 129     | 100  |       |       |       |
| 127     | 78.4 | 39.3  | 117.8 |       |





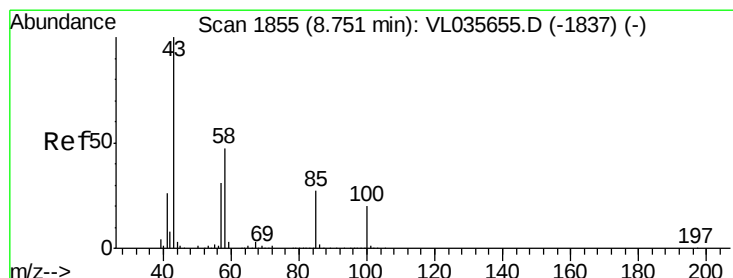
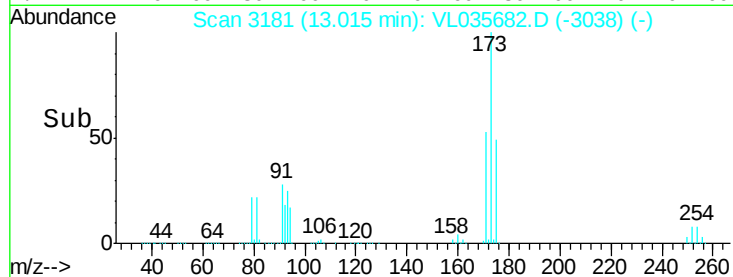
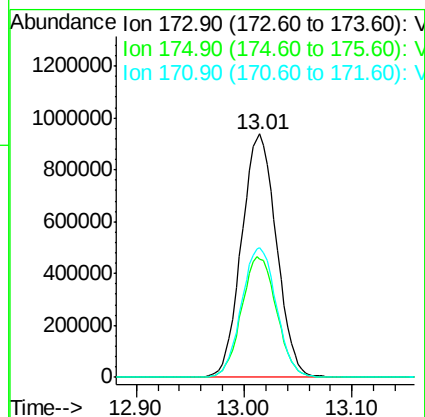
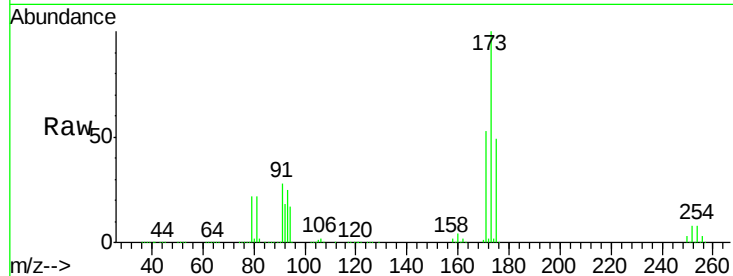
#49  
Bromoform  
Concen: 11.431 ppbv  
RT: 13.01 min Scan# 3181  
Delta R.T. -0.04 min  
Lab File: VL035682.D  
Acq: 21 Sep 2020 10:36

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tot Ion:173 Resp: 2111464  
Ion Ratio Lower Upper  
173 100  
175 49.8 39.8 59.8  
171 53.3 42.4 63.6

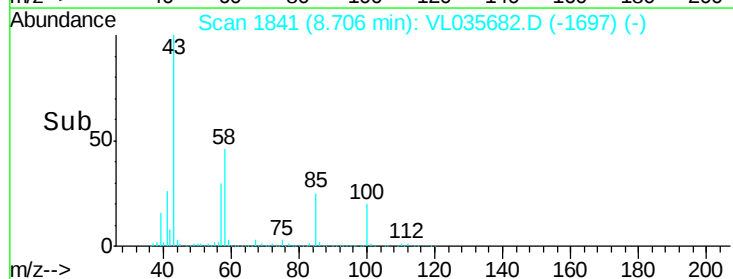
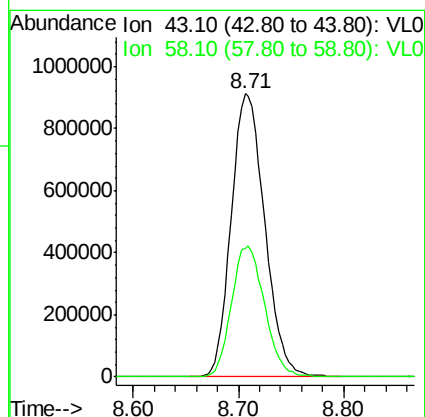
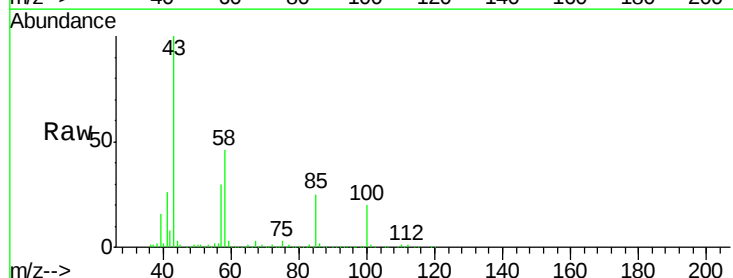
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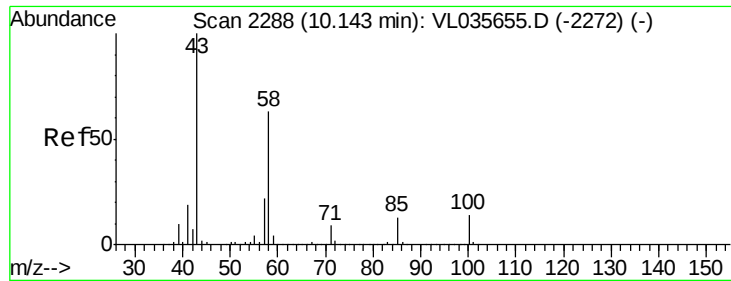
MMDadoda  
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#50  
4-Methyl-2-Pentanone  
Concen: 11.651 ppbv  
RT: 8.71 min Scan# 1841  
Delta R.T. -0.04 min  
Lab File: VL035682.D  
Acq: 21 Sep 2020 10:36

Tgt Ion: 43 Resp: 2009455  
Ion Ratio Lower Upper  
43 100  
58 45.9 37.4 56.0





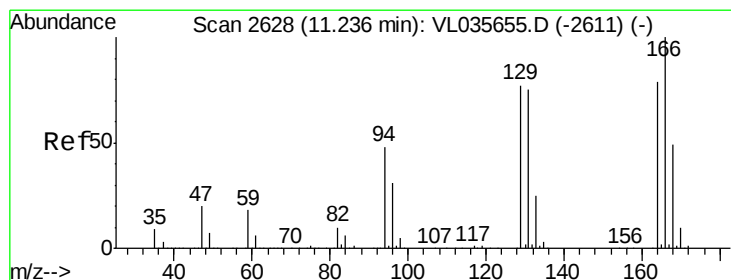
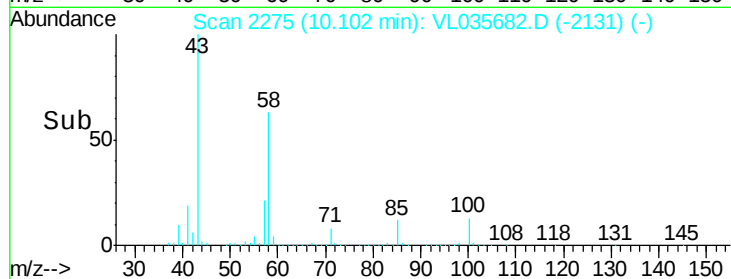
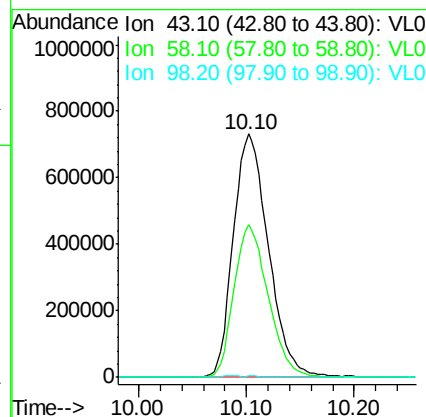
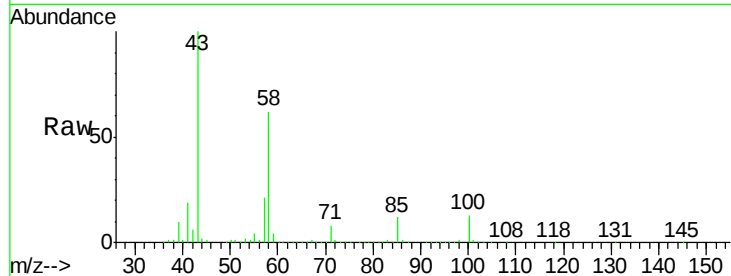
#51  
2-Hexanone  
Concen: 11.747 ppbv  
RT: 10.10 min Scan# 2275  
Delta R.T. -0.04 min  
Lab File: VL035682.D  
Acq: 21 Sep 2020 10:36

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tot Ion: 43 Resp: 1661983  
Ion Ratio Lower Upper  
43 100  
58 61.1 50.2 75.4  
98 0.8 0.4 0.6#

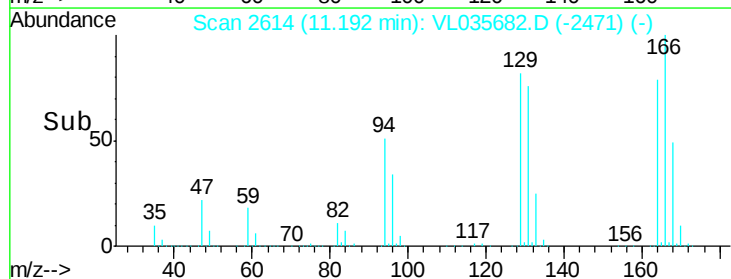
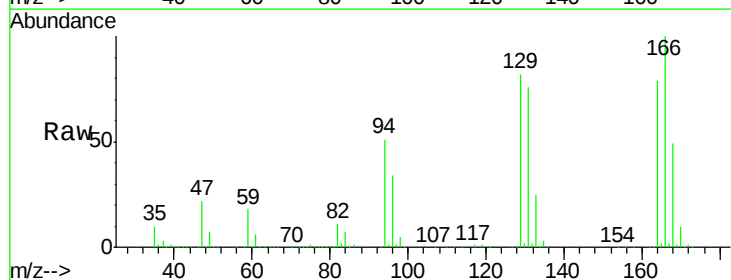
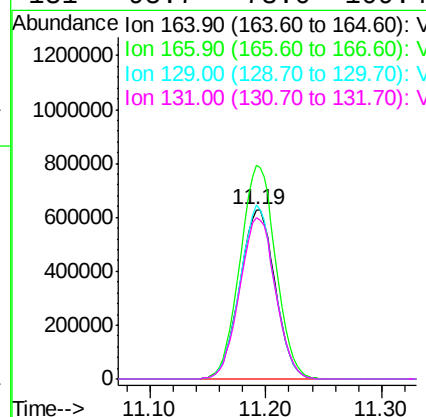
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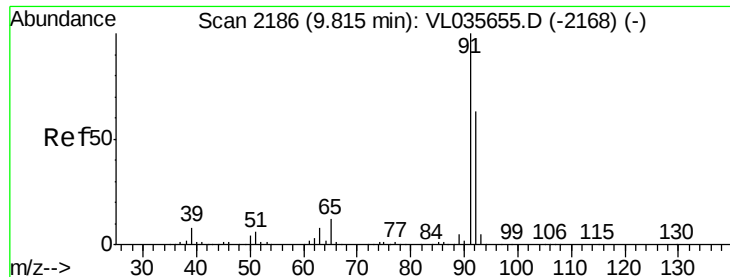
MMDadoda  
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#52  
Tetrachloroethene  
Concen: 8.781 ppbv  
RT: 11.19 min Scan# 2614  
Delta R.T. -0.04 min  
Lab File: VL035682.D  
Acq: 21 Sep 2020 10:36

Tgt Ion: 164 Resp: 1332698  
Ion Ratio Lower Upper  
164 100  
166 126.4 100.9 151.3  
129 103.2 75.3 112.9  
131 95.7 73.0 109.4





#53

Toluene

Concen: 10.862 ppbv

RT: 9.77 min Scan# 2173

Delta R.T. -0.04 min

Lab File: VL035682.D

Acq: 21 Sep 2020 10:36

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 3548682

Ion Ratio Lower Upper

91 100

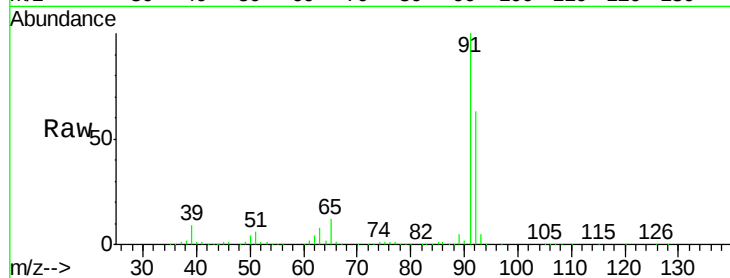
92 62.2 49.8 74.8

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

2000000

1500000

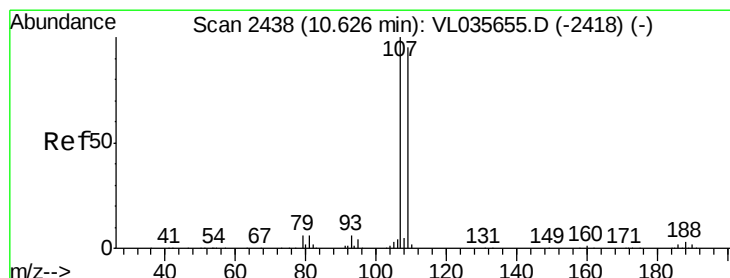
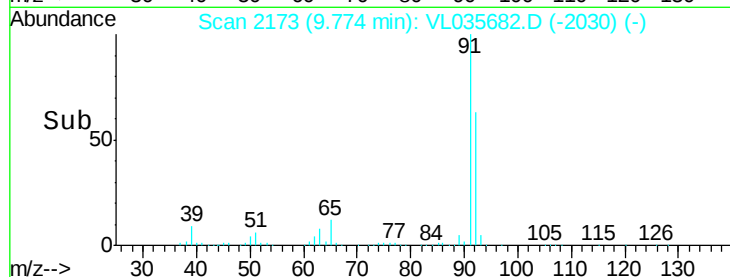
1000000

500000

0

9.70 9.75 9.80 9.85

Time-->



#54

1,2-Dibromoethane

Concen: 10.645 ppbv

RT: 10.58 min Scan# 2424

Delta R.T. -0.04 min

Lab File: VL035682.D

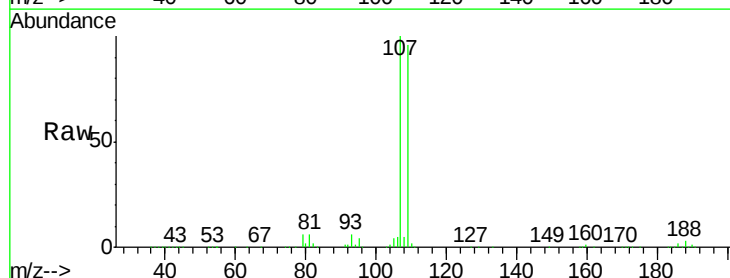
Acq: 21 Sep 2020 10:36

Tgt Ion: 107 Resp: 2178168

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

1200000

1000000

800000

600000

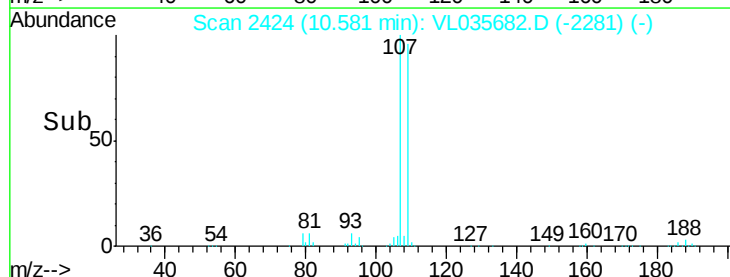
400000

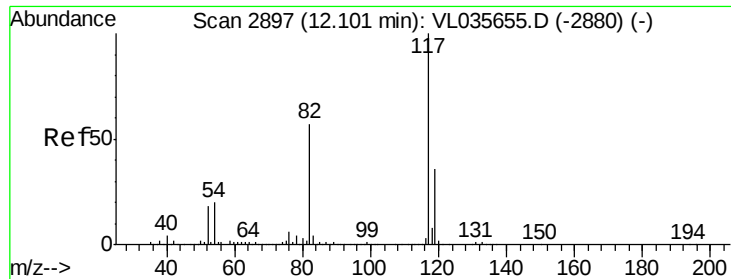
200000

0

10.50 10.55 10.60 10.65

Time-->





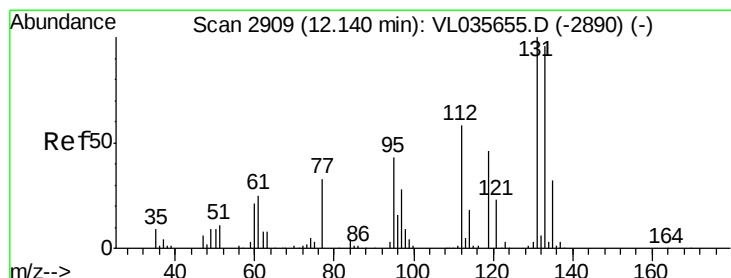
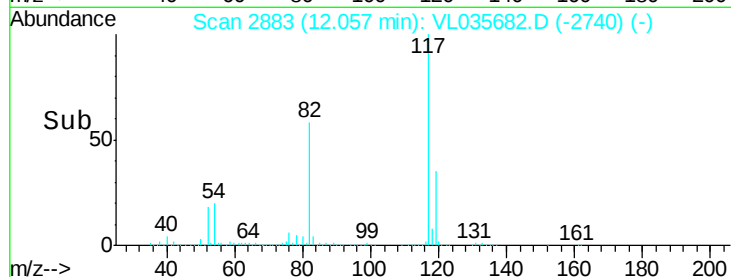
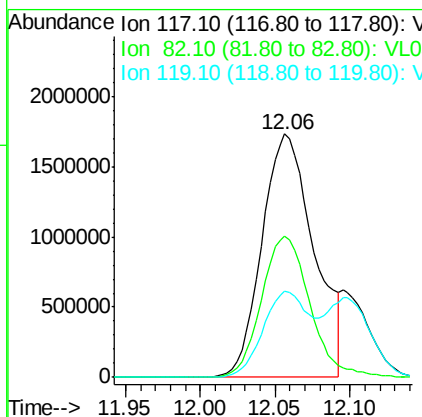
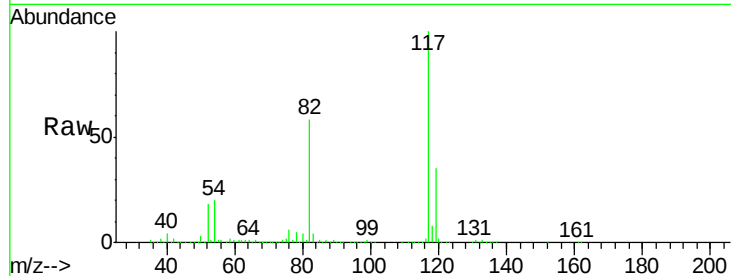
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.06 min Scan# 2883  
Delta R.T. -0.04 min  
Lab File: VL035682.D  
Acq: 21 Sep 2020 10:36

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tot Ion:117 Resp: 4180232  
Ion Ratio Lower Upper  
117 100  
82 54.2 41.6 62.4  
119 34.4 29.3 43.9

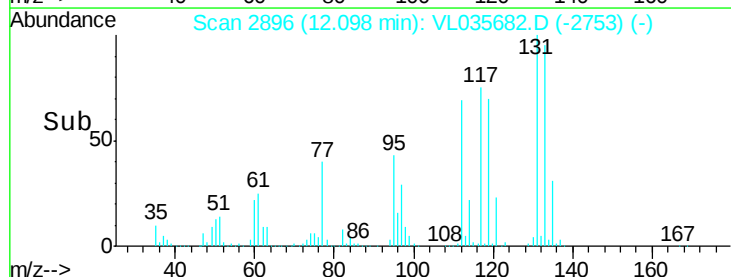
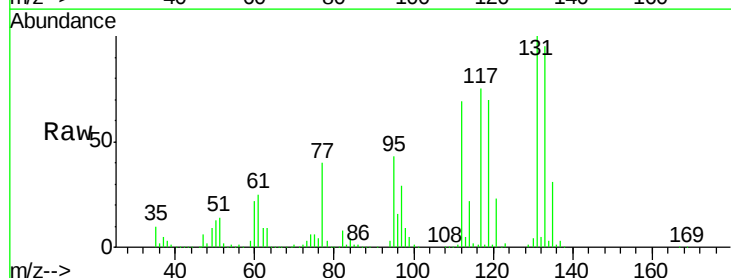
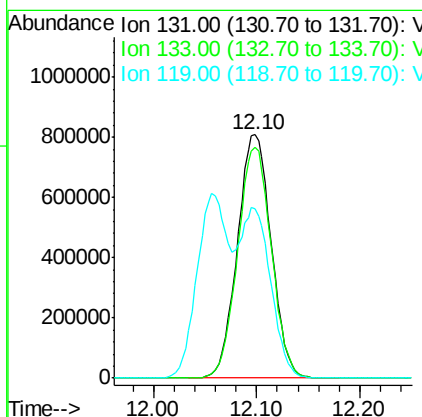
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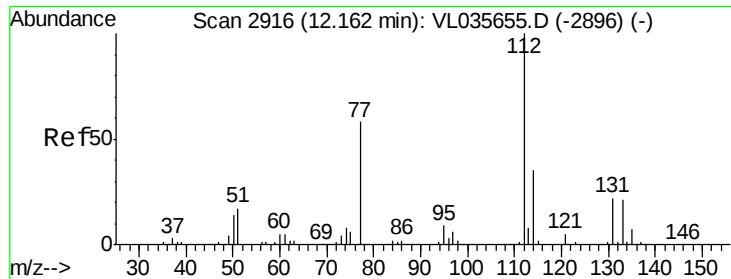
MMDadoda  
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#56  
1,1,1,2-Tetrachloroethane  
Concen: 10.810 ppbv  
RT: 12.10 min Scan# 2896  
Delta R.T. -0.04 min  
Lab File: VL035682.D  
Acq: 21 Sep 2020 10:36

Tgt Ion:131 Resp: 1838716  
Ion Ratio Lower Upper  
131 100  
133 94.9 76.6 115.0  
119 58.2 51.6 77.4





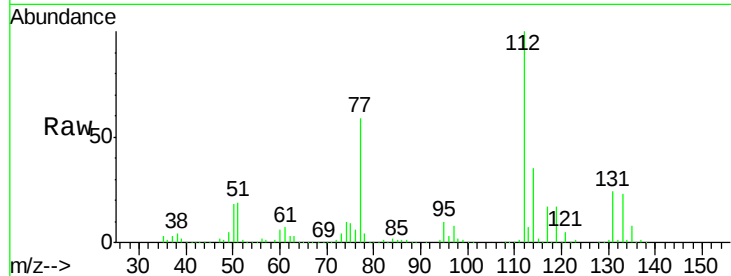
#57  
Chlorobenzene  
Concen: 9.774 ppbv  
RT: 12.12 min Scan# 2902  
Delta R.T. -0.04 min  
Lab File: VL035682.D  
Acq: 21 Sep 2020 10:36

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

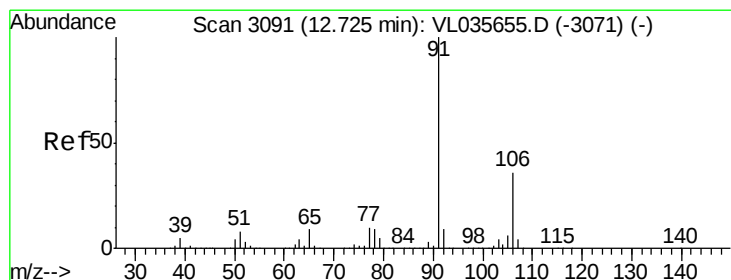
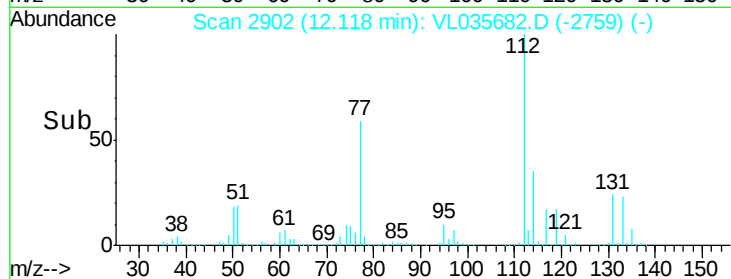
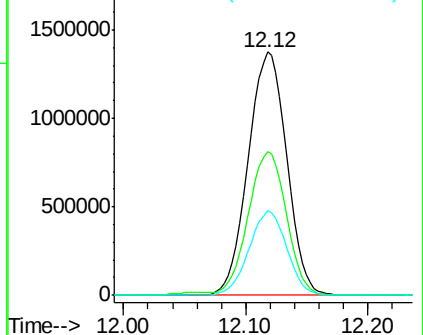
Tot Ion: 112 Resp: 3006975  
Ion Ratio Lower Upper  
112 100  
77 58.7 44.2 66.4  
114 34.8 31.6 38.6

Manual Integrations  
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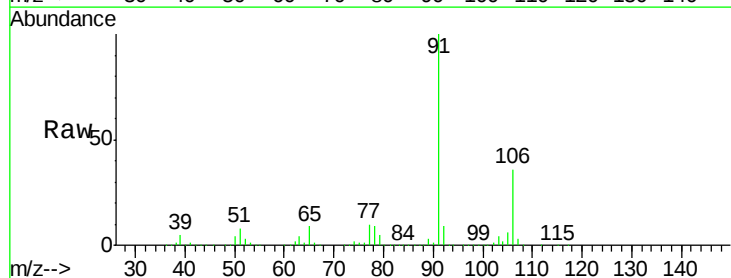


Abundance Ion 112.10 (111.80 to 112.80): V  
Ion 77.10 (76.80 to 77.80): VL0  
Ion 114.10 (113.80 to 114.80): V

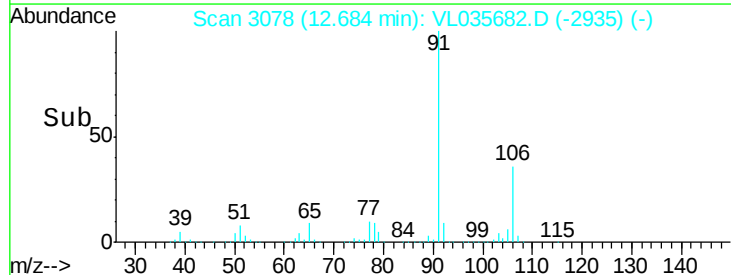
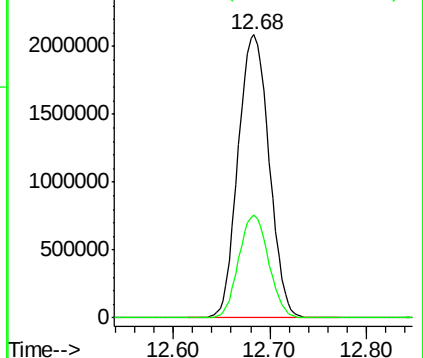


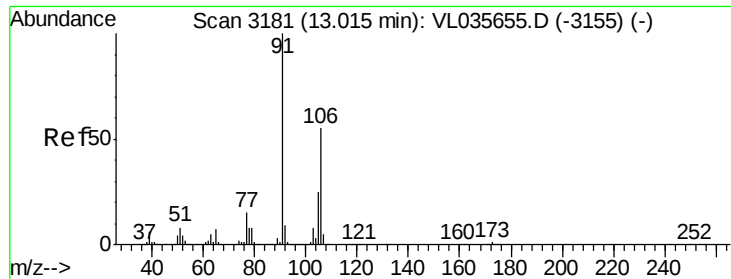
#58  
Ethyl Benzene  
Concen: 10.811 ppbv  
RT: 12.68 min Scan# 3078  
Delta R.T. -0.04 min  
Lab File: VL035682.D  
Acq: 21 Sep 2020 10:36

Tgt Ion: 91 Resp: 4660190  
Ion Ratio Lower Upper  
91 100  
106 36.5 30.3 45.5



Abundance Ion 91.10 (90.80 to 91.80): VL0  
Ion 106.10 (105.80 to 106.80): V





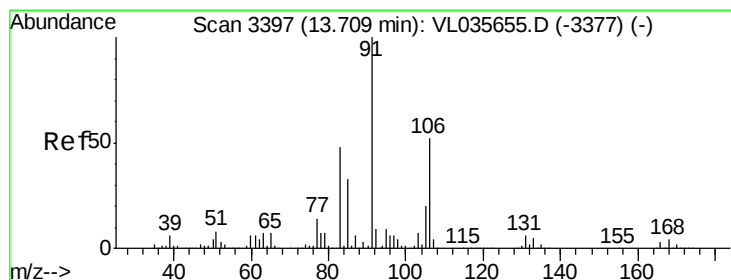
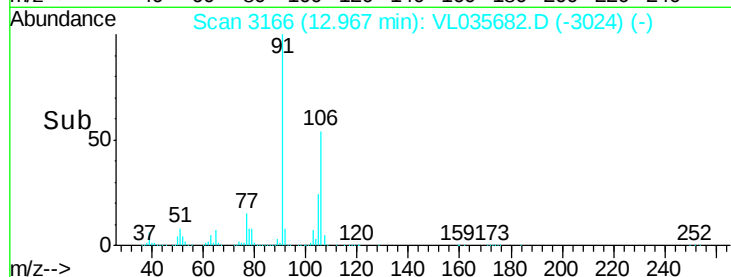
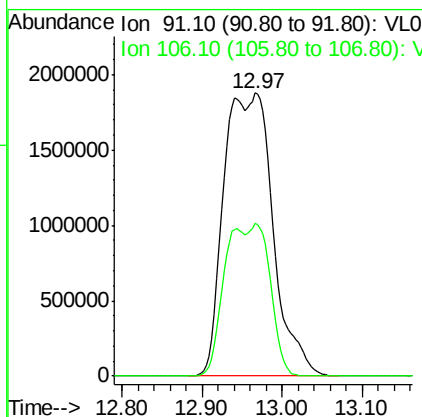
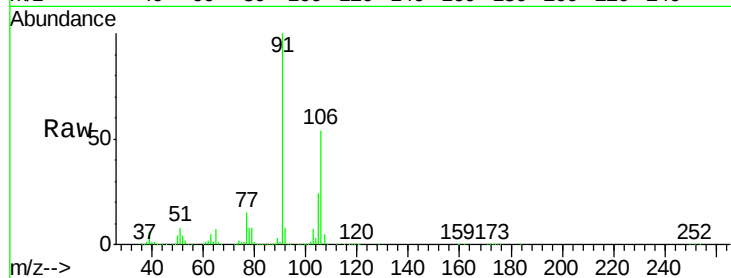
#59  
m/p-Xylene  
Concen: 22.347 ppbv m  
RT: 12.97 min Scan# 3166  
Delta R.T. -0.04 min  
Lab File: VL035682.D  
Acq: 21 Sep 2020 10:36

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tot Ion: 91 Resp: 8049193  
Ion Ratio Lower Upper  
91 100  
106 49.5 43.4 65.2

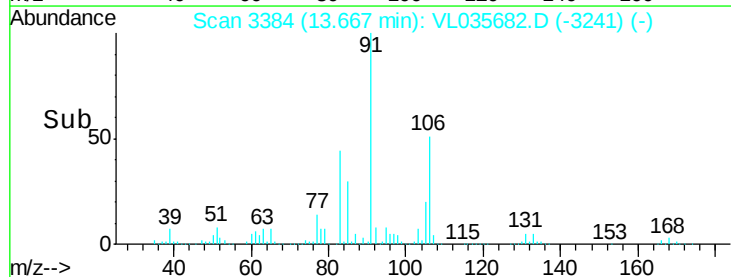
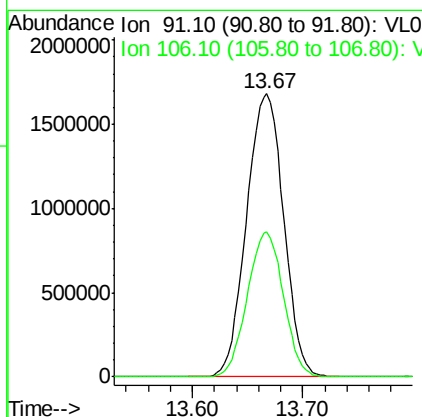
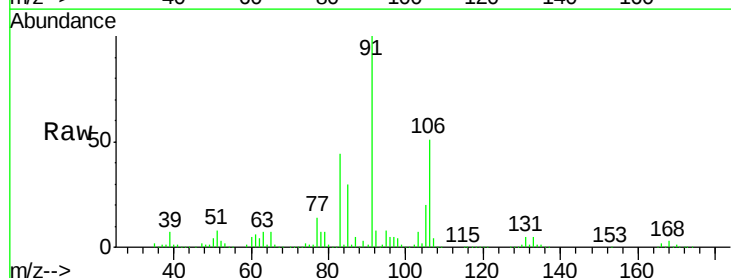
Manual Integrations  
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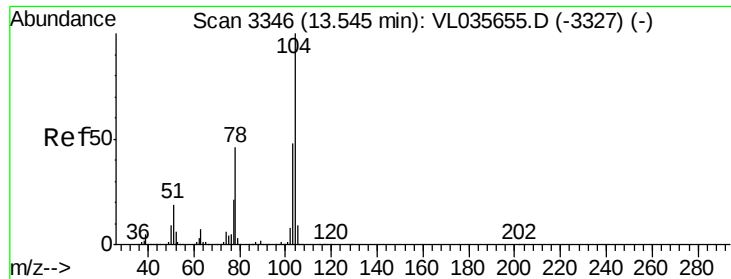
MMDadoda  
9/22/2020 2:05:54 PM



#60  
o-Xylene  
Concen: 10.818 ppbv  
RT: 13.67 min Scan# 3384  
Delta R.T. -0.04 min  
Lab File: VL035682.D  
Acq: 21 Sep 2020 10:36

Tgt Ion: 91 Resp: 3924439  
Ion Ratio Lower Upper  
91 100  
106 49.8 25.8 77.4





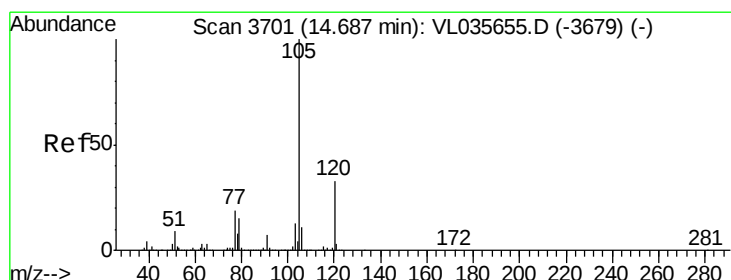
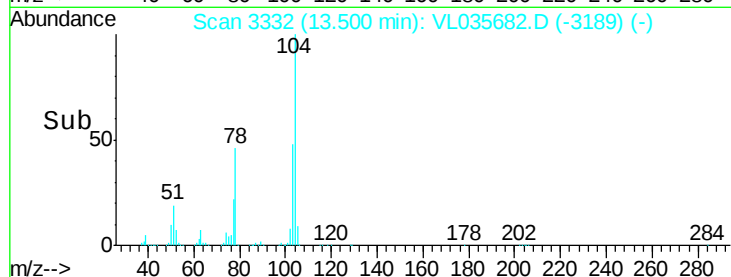
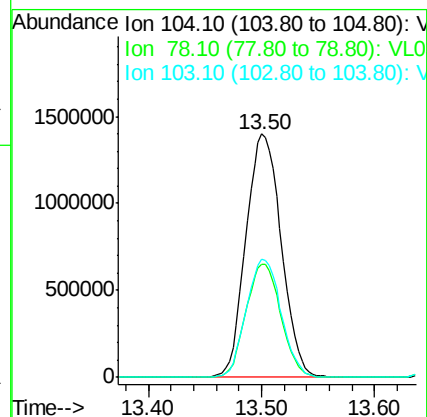
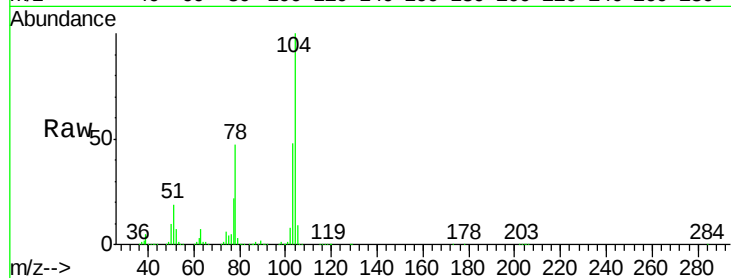
#61  
Stvrene  
Concen: 10.967 ppbv  
RT: 13.50 min Scan# 3332  
Delta R.T. -0.04 min  
Lab File: VL035682.D  
Acq: 21 Sep 2020 10:36

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 104     | 100   |       |       |
| 78      | 46.1  | 34.8  | 52.2  |
| 103     | 47.9  | 38.2  | 57.4  |

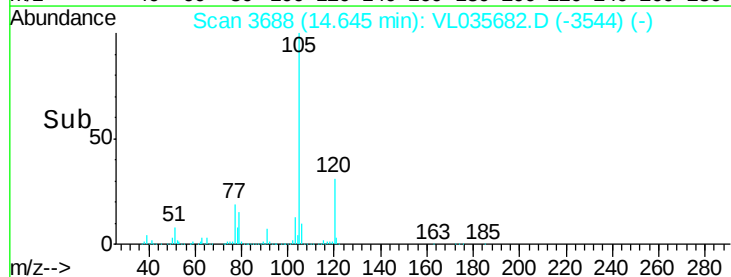
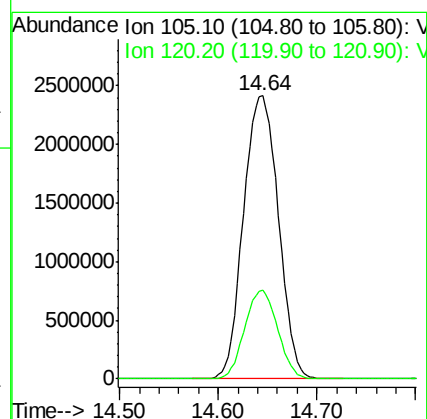
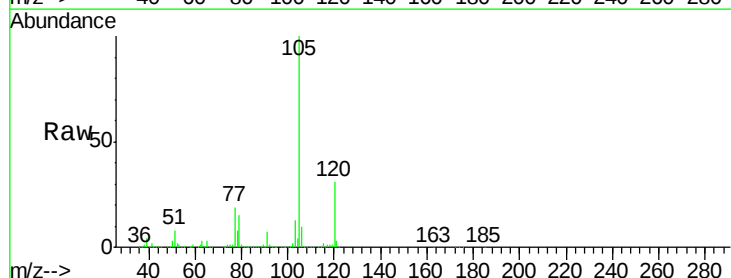
Manual Integrations  
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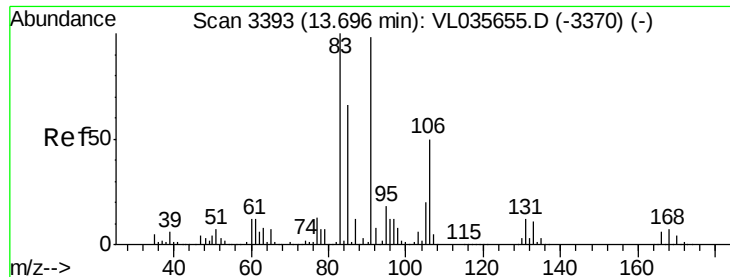
MMDadoda  
9/22/2020 2:05:54 PM



#62  
Isopropylbenzene  
Concen: 10.169 ppbv  
RT: 14.64 min Scan# 3688  
Delta R.T. -0.04 min  
Lab File: VL035682.D  
Acq: 21 Sep 2020 10:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 29.5  | 25.0  | 37.4  |





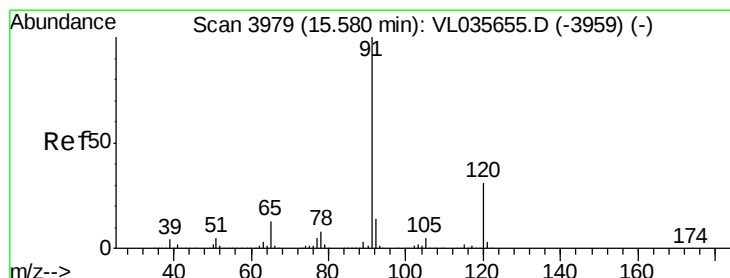
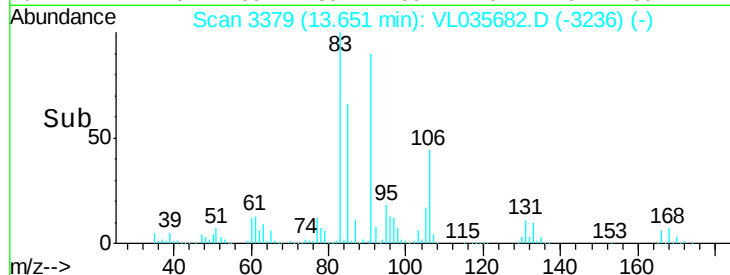
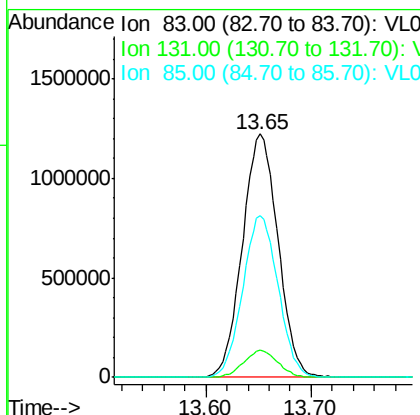
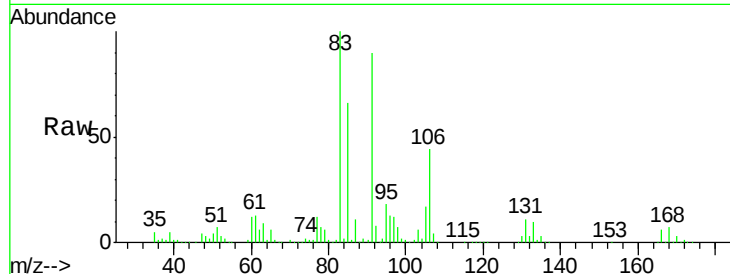
#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 10.221 ppbv  
 RT: 13.65 min Scan# 3379  
 Delta R.T. -0.04 min  
 Lab File: VL035682.D  
 Acq: 21 Sep 2020 10:36

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tot Ion: 83 Resp: 2874637  
 Ion Ratio Lower Upper  
 83 100  
 131 10.7 6.0 18.0  
 85 66.2 33.4 100.2

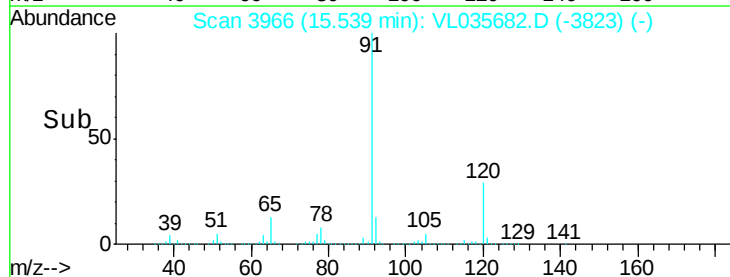
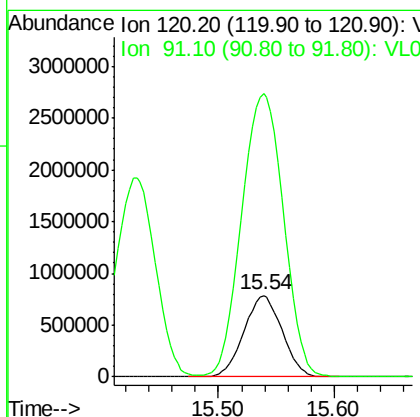
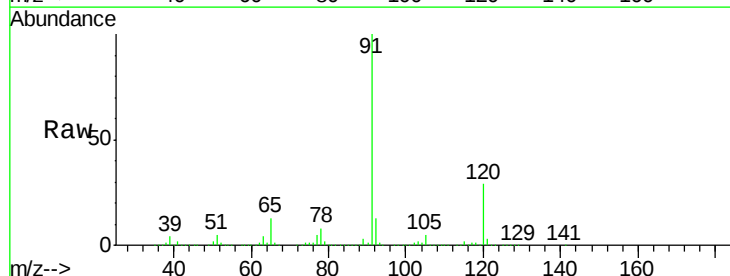
Manual Integrations  
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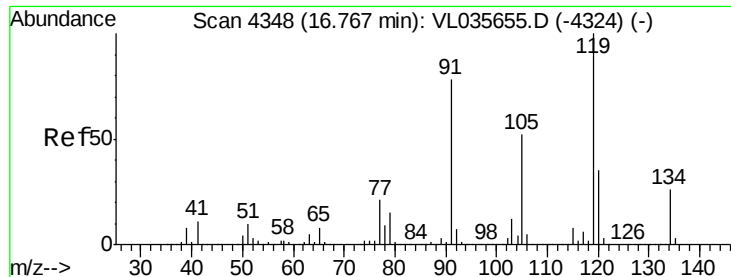
MMDadoda  
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#64  
 n-propylbenzene  
 Concen: 10.101 ppbv  
 RT: 15.54 min Scan# 3966  
 Delta R.T. -0.04 min  
 Lab File: VL035682.D  
 Acq: 21 Sep 2020 10:36

Tgt Ion:120 Resp: 1796382  
 Ion Ratio Lower Upper  
 120 100  
 91 382.0 279.4 419.0





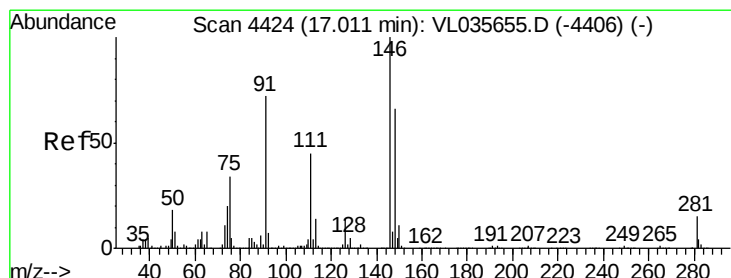
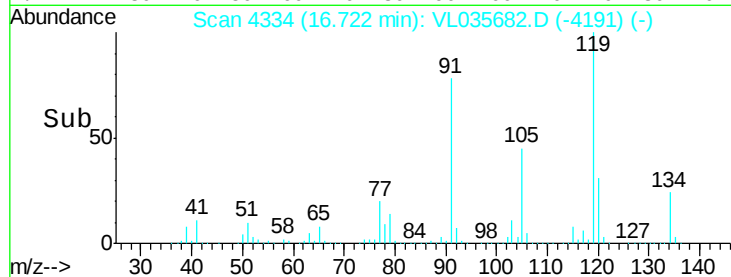
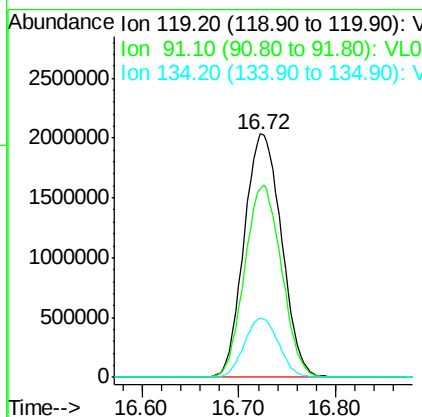
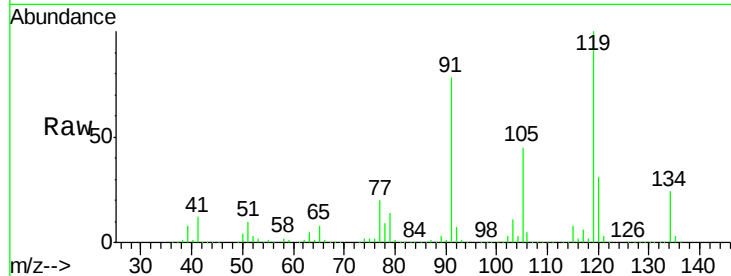
#65  
tert-Butylbenzene  
Concen: 10.080 ppbv  
RT: 16.72 min Scan# 4334  
Delta R.T. -0.04 min  
Lab File: VL035682.D  
Acq: 21 Sep 2020 10:36

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tot Ion:119 Resp: 5460798  
Ion Ratio Lower Upper  
119 100  
91 77.8 58.6 87.8  
134 22.4 18.9 28.3

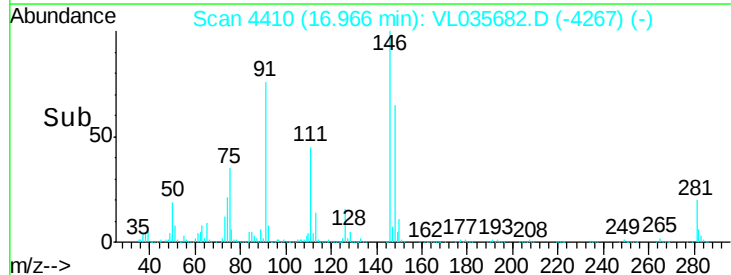
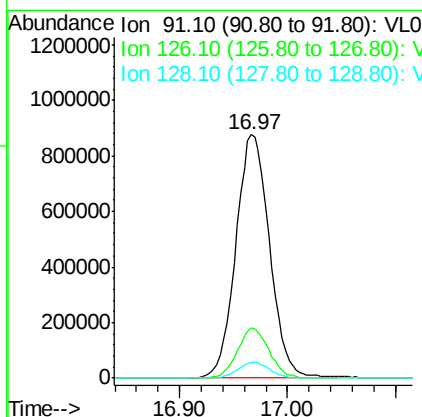
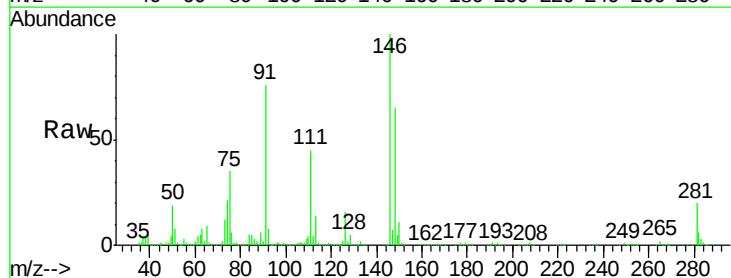
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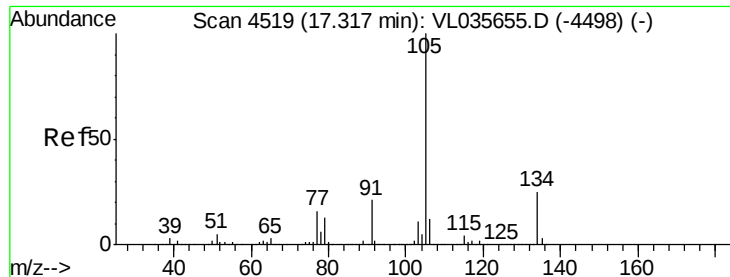
MMDadoda  
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#66  
Benzyl Chloride  
Concen: 14.151 ppbv  
RT: 16.97 min Scan# 4410  
Delta R.T. -0.04 min  
Lab File: VL035682.D  
Acq: 21 Sep 2020 10:36

Tgt Ion: 91 Resp: 1905141  
Ion Ratio Lower Upper  
91 100  
126 19.4 17.2 25.8  
128 6.2 5.5 8.3





#67

sec-Butylbenzene

Concen: 10.194 ppbv

RT: 17.28 min Scan# 4506

Delta R.T. -0.04 min

Lab File: VL035682.D

Acq: 21 Sep 2020 10:36

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 7357576

Ion Ratio Lower Upper

105 100

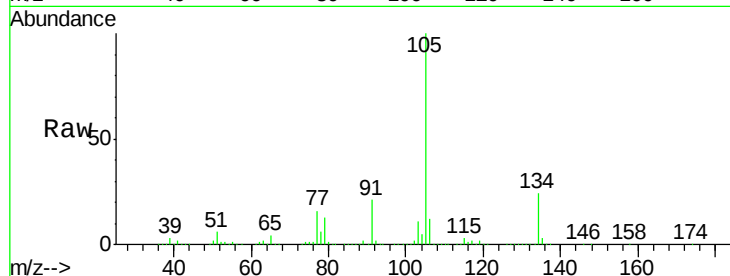
134 21.5 19.1 28.7

Manual Integrations

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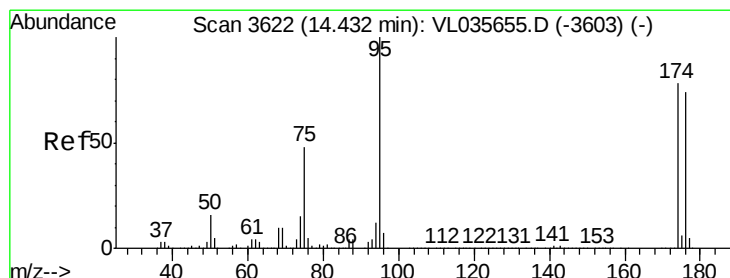
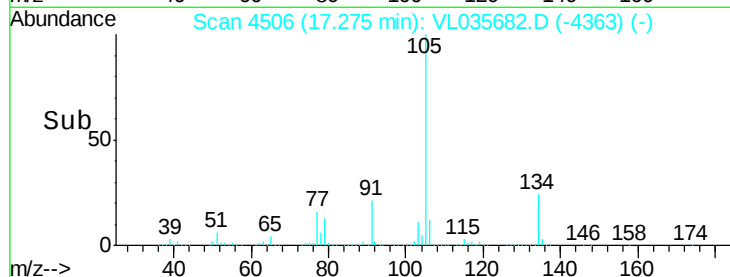
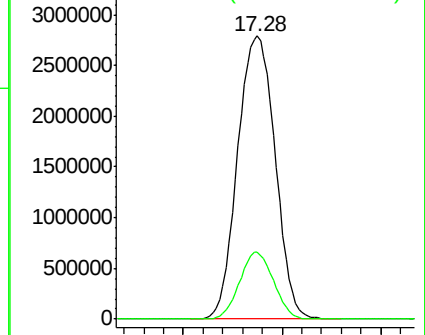
MMDadoda

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.867 ppbv

RT: 14.39 min Scan# 3609

Delta R.T. -0.04 min

Lab File: VL035682.D

Acq: 21 Sep 2020 10:36

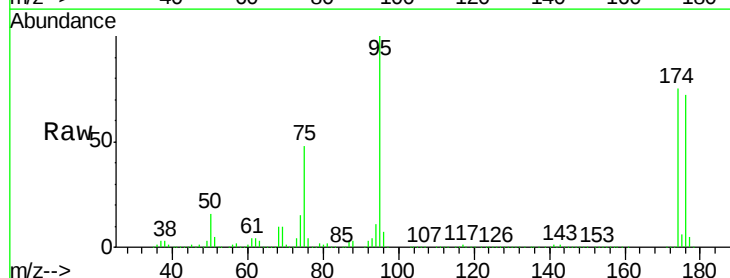
Tgt Ion: 95 Resp: 2928975

Ion Ratio Lower Upper

95 100

174 74.9 69.6 104.4

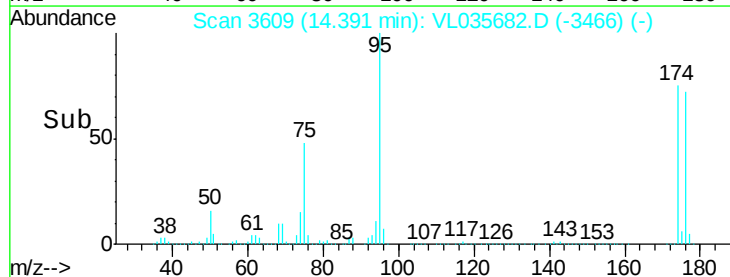
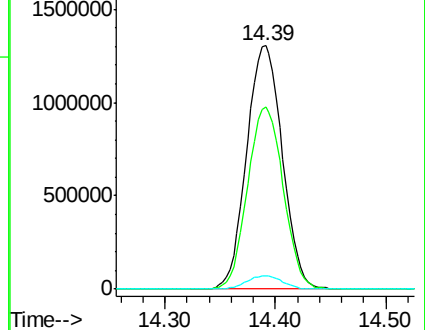
175 5.4 5.1 7.7

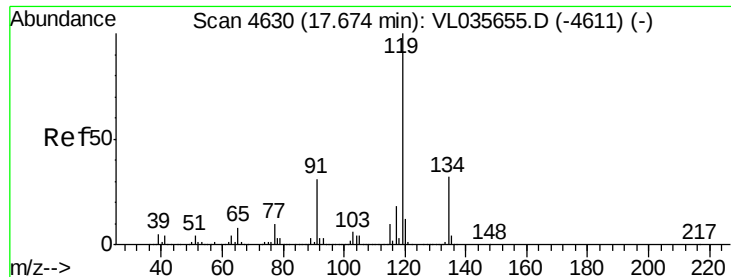


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





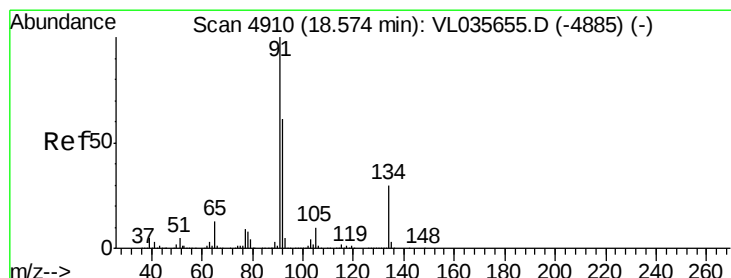
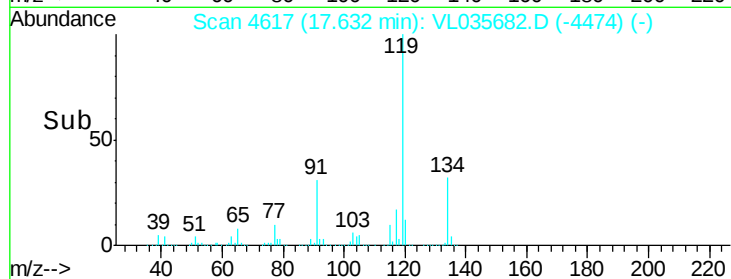
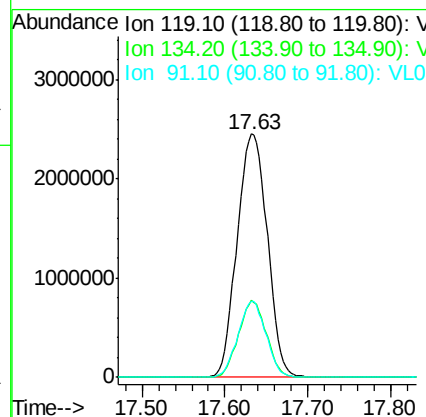
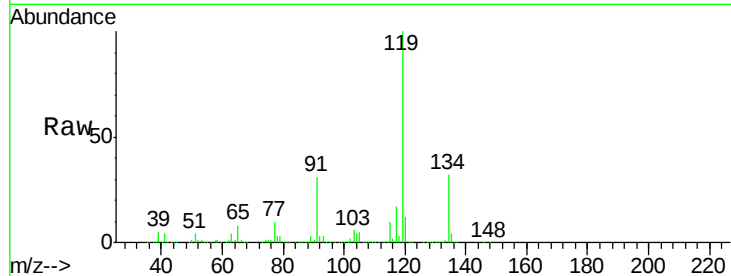
#69  
 p-Isopropyltoluene  
 Concen: 9.788 ppbv  
 RT: 17.63 min Scan# 4617  
 Delta R.T. -0.04 min  
 Lab File: VL035682.D  
 Acq: 21 Sep 2020 10:36

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 29.2  | 25.0  | 37.4  |
| 91      | 29.1  | 22.3  | 33.5  |

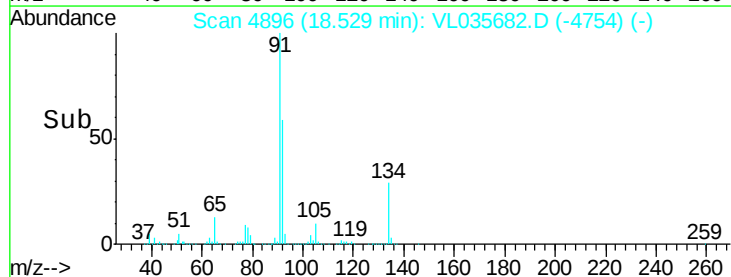
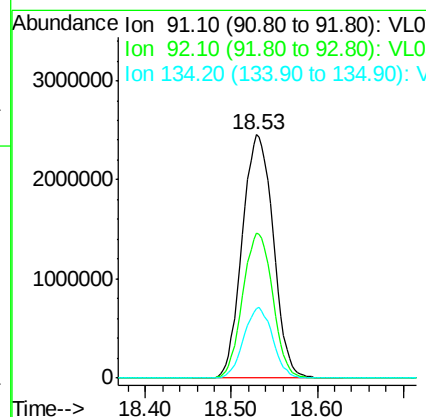
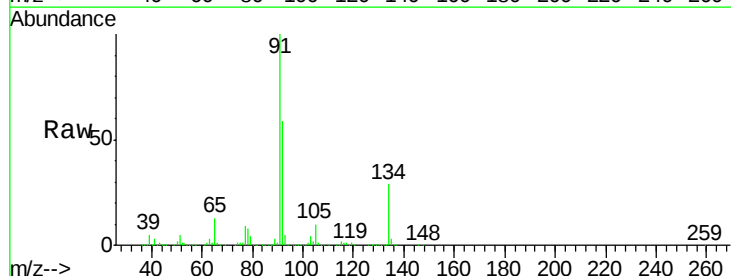
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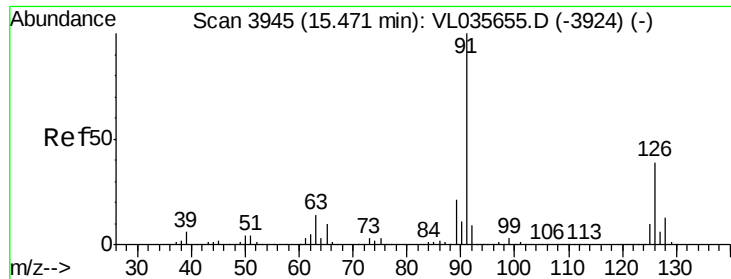
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#70  
 n-Butylbenzene  
 Concen: 10.097 ppbv  
 RT: 18.53 min Scan# 4896  
 Delta R.T. -0.04 min  
 Lab File: VL035682.D  
 Acq: 21 Sep 2020 10:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 57.6  | 47.3  | 70.9  |
| 134     | 27.1  | 24.6  | 37.0  |





#71

2-Chlorotoluene

Concen: 10.658 ppbv

RT: 15.43 min Scan# 3932

Delta R.T. -0.04 min

Lab File: VL035682.D

Acq: 21 Sep 2020 10:36

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 4523141

Ion Ratio Lower Upper

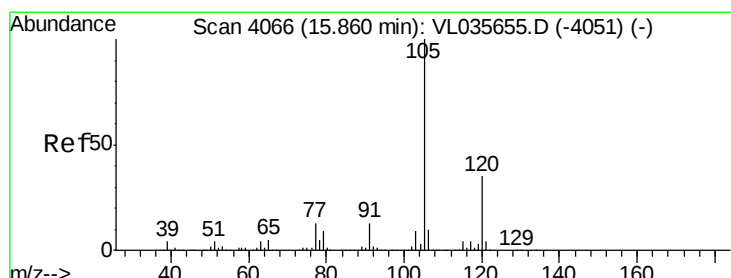
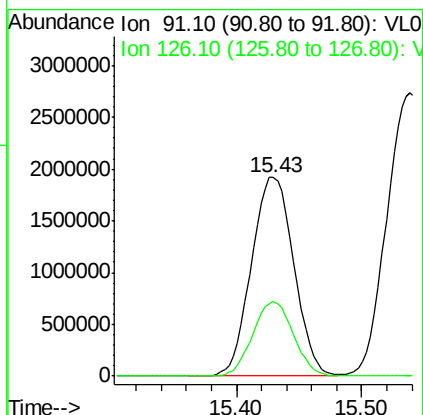
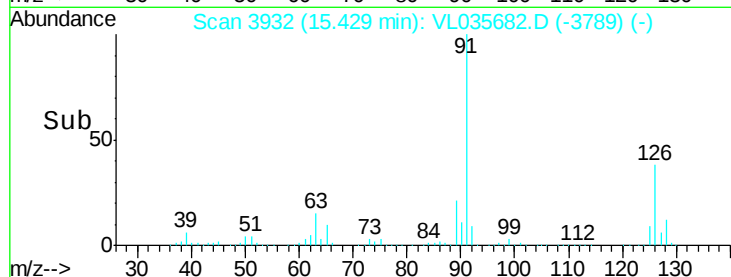
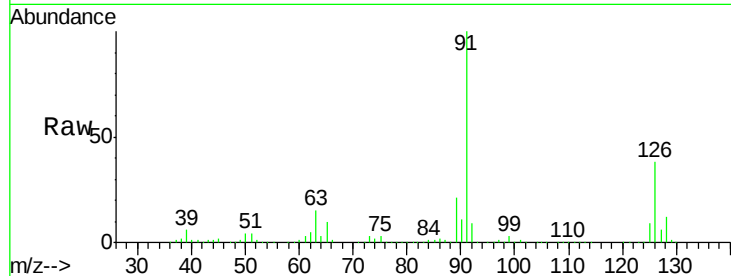
91 100

126 36.0 15.6 62.6

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#72

4-Ethyltoluene

Concen: 10.480 ppbv

RT: 15.82 min Scan# 4052

Delta R.T. -0.04 min

Lab File: VL035682.D

Acq: 21 Sep 2020 10:36

Tgt Ion: 105 Resp: 4833360

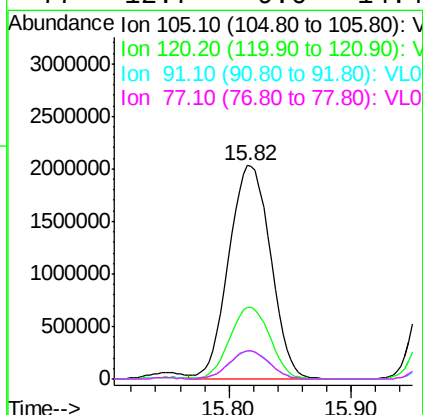
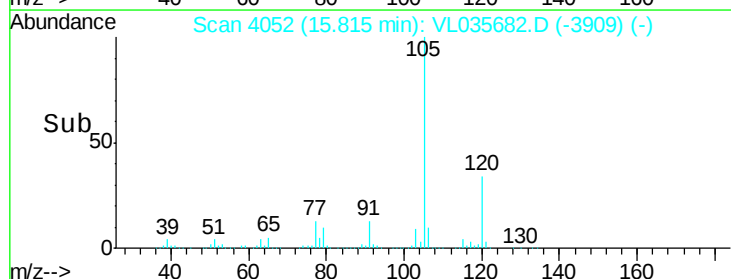
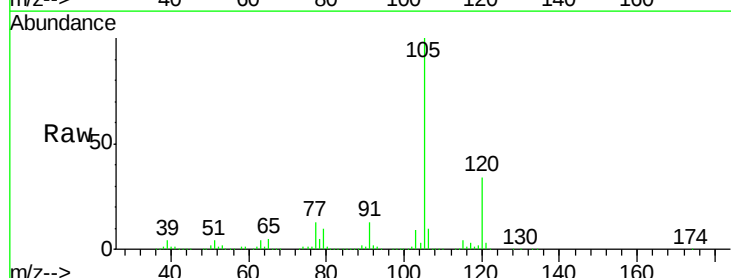
Ion Ratio Lower Upper

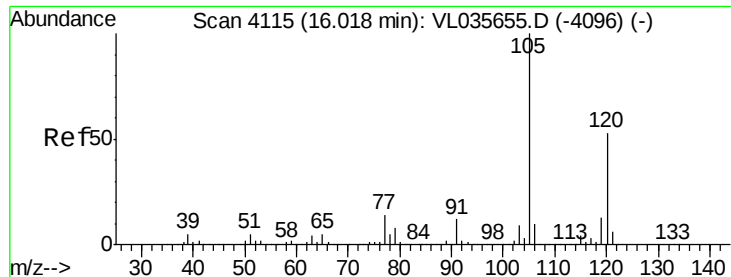
105 100

120 32.5 27.4 41.2

91 12.5 9.7 14.5

77 12.7 9.6 14.4





#73

1,3,5-Trimethylbenzene

Concen: 10.534 ppbv

RT: 15.98 min Scan# 4102

Delta R.T. -0.04 min

Lab File: VL035682.D

Acq: 21 Sep 2020 10:36

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 4493770

Ion Ratio Lower Upper

105 100

120 51.8

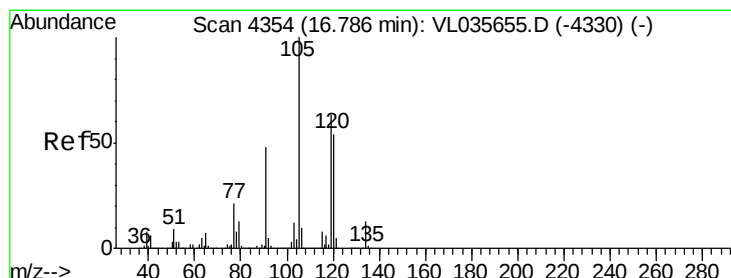
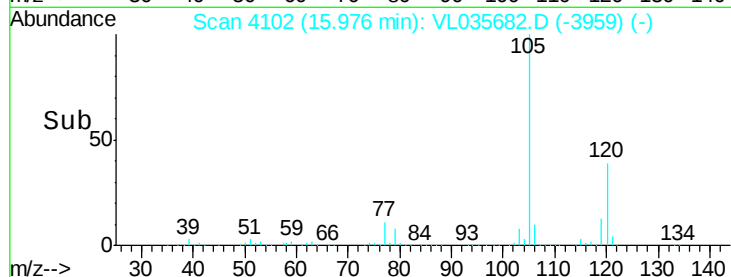
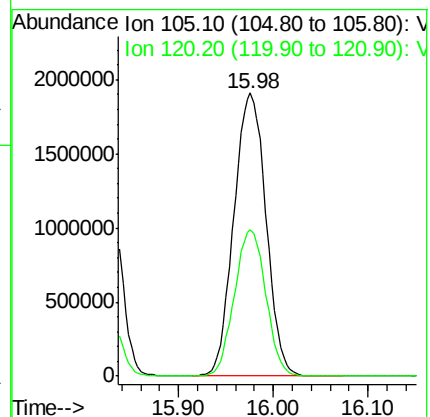
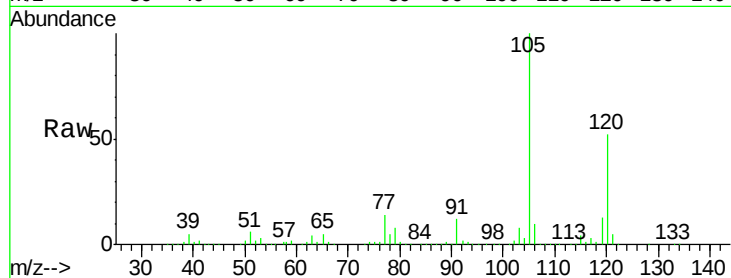
44.2

66.2

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#74

1,2,4-Trimethylbenzene

Concen: 10.020 ppbv

RT: 16.74 min Scan# 4341

Delta R.T. -0.04 min

Lab File: VL035682.D

Acq: 21 Sep 2020 10:36

Tgt Ion:105 Resp: 4693900

Ion Ratio Lower Upper

105 100

120 52.5

44.4

66.6

91 44.7

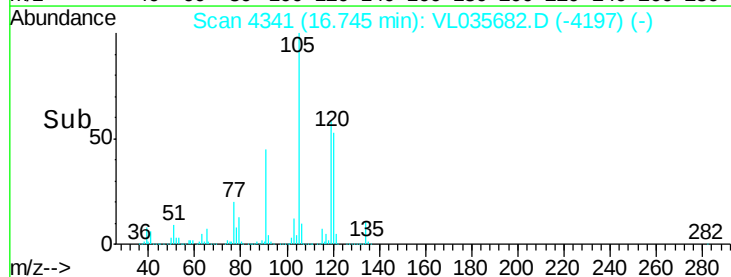
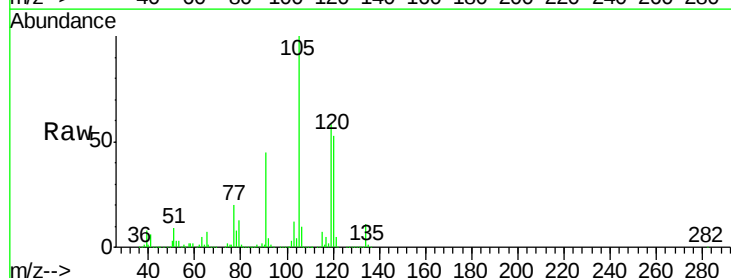
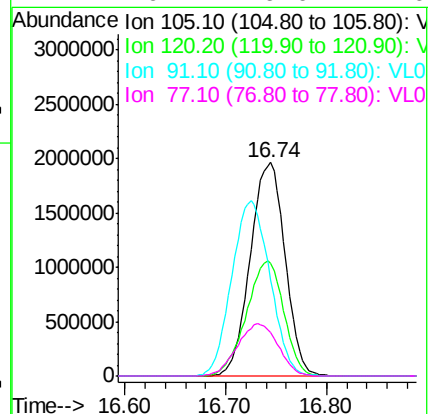
37.1

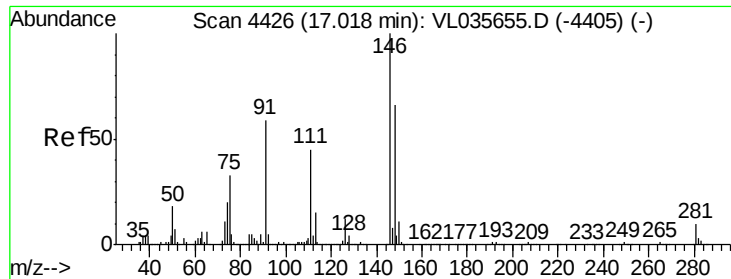
55.7

77 20.2

16.0

24.0





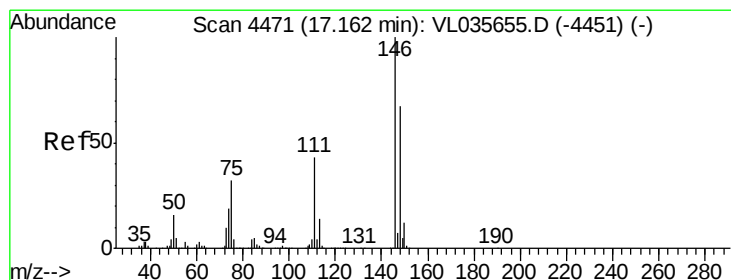
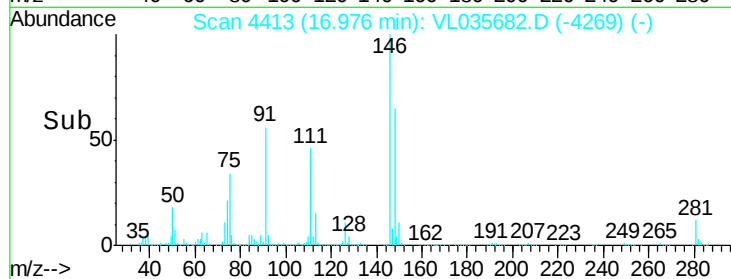
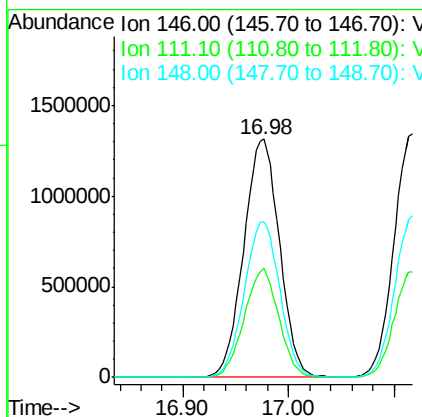
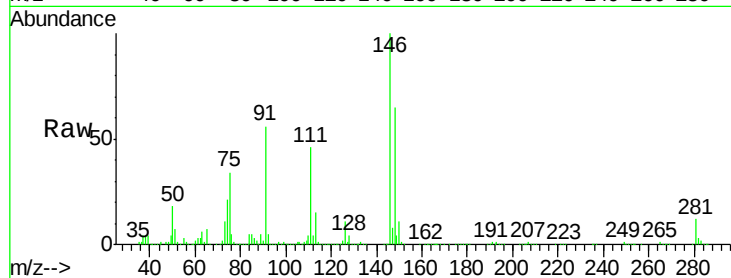
#75  
 1,3-Dichlorobenzene  
 Concen: 8.938 ppbv  
 RT: 16.98 min Scan# 4413  
 Delta R.T. -0.04 min  
 Lab File: VL035682.D  
 Acq: 21 Sep 2020 10:36

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tot Ion:146 Resp: 3101445  
 Ion Ratio Lower Upper  
 146 100  
 111 44.0 20.7 62.1  
 148 65.2 33.0 98.9

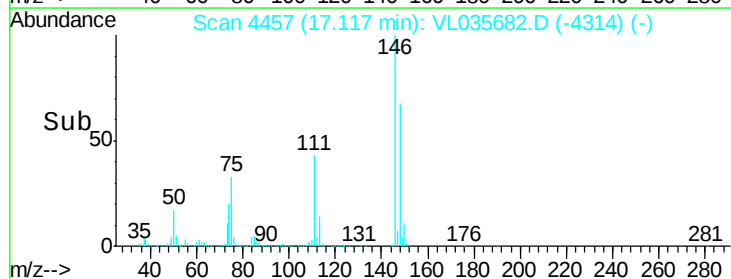
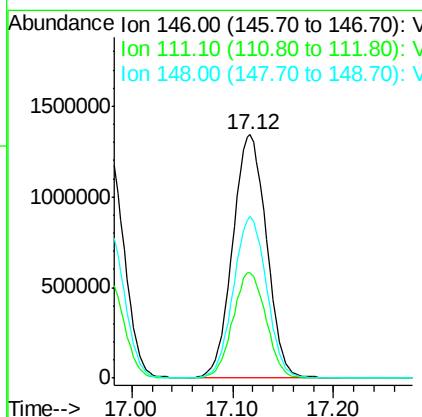
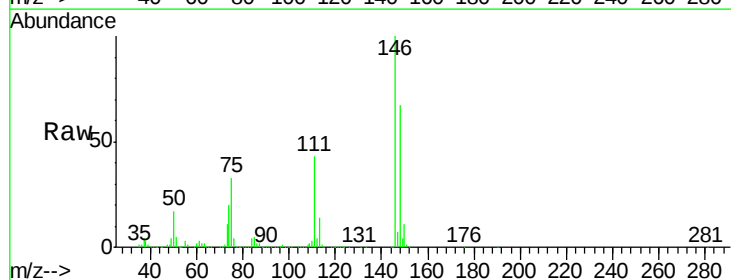
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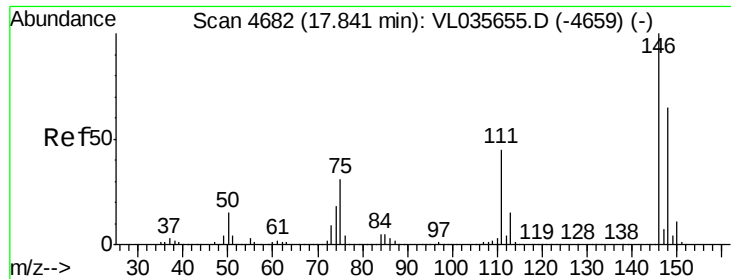
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#76  
 1,4-Dichlorobenzene  
 Concen: 9.106 ppbv  
 RT: 17.12 min Scan# 4457  
 Delta R.T. -0.04 min  
 Lab File: VL035682.D  
 Acq: 21 Sep 2020 10:36

Tgt Ion:146 Resp: 3116326  
 Ion Ratio Lower Upper  
 146 100  
 111 42.6 20.0 60.0  
 148 65.3 33.2 99.6





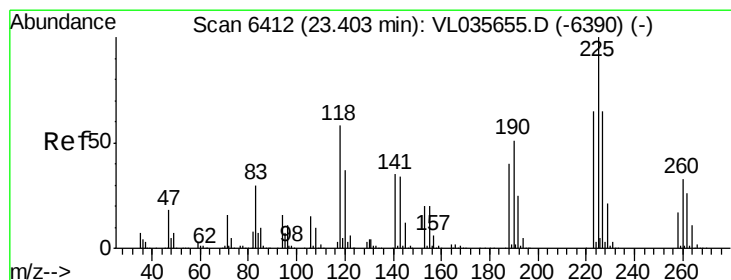
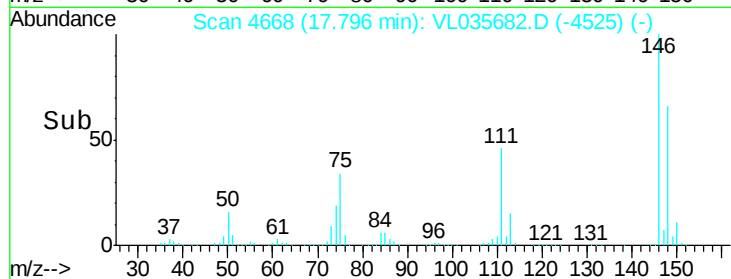
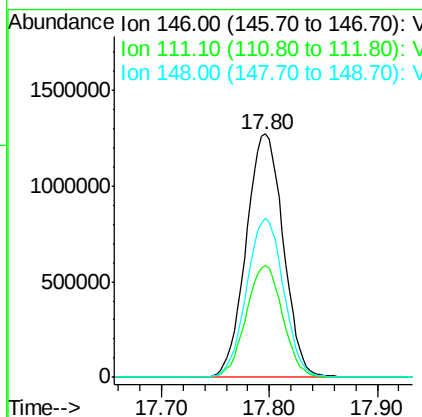
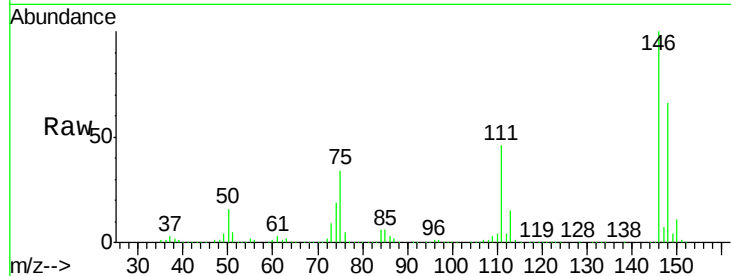
#77  
 1,2-Dichlorobenzene  
 Concen: 9.062 ppbv  
 RT: 17.80 min Scan# 4668  
 Delta R.T. -0.04 min  
 Lab File: VL035682.D  
 Acq: 21 Sep 2020 10:36

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 45.2  | 21.1  | 63.3  |
| 148     | 65.0  | 32.9  | 98.7  |

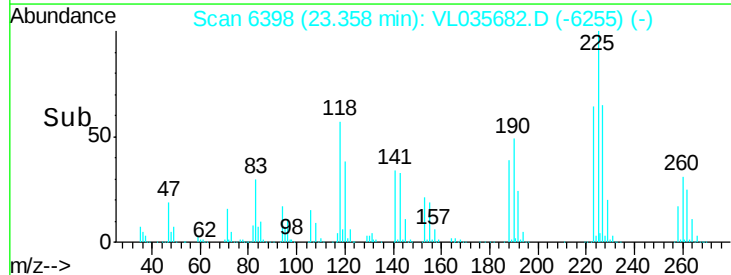
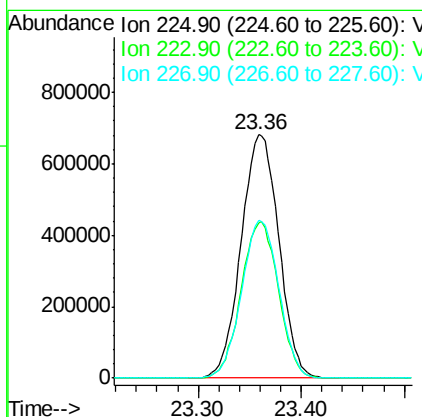
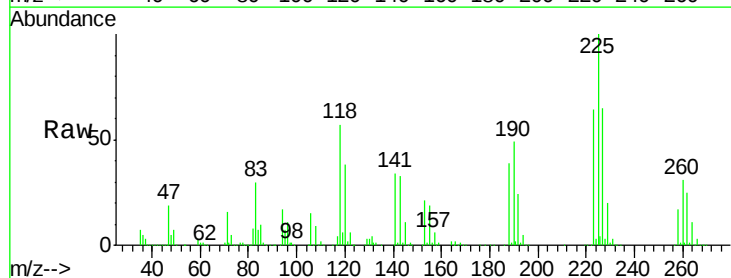
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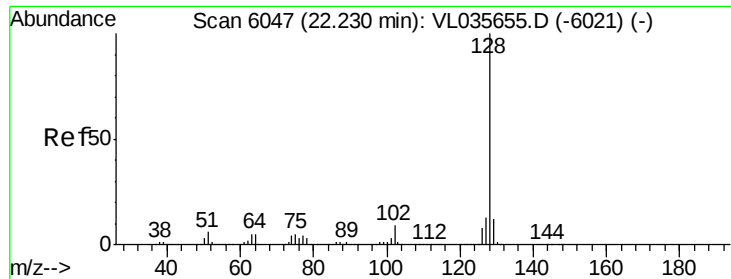
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#78  
 Hexachloro-1,3-Butadiene  
 Concen: 8.073 ppbv  
 RT: 23.36 min Scan# 6398  
 Delta R.T. -0.04 min  
 Lab File: VL035682.D  
 Acq: 21 Sep 2020 10:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 63.7  | 51.7  | 77.5  |
| 227     | 64.1  | 51.5  | 77.3  |





#79

Naphthalene

Concen: 9.108 ppbv

RT: 22.18 min Scan# 6031

Delta R.T. -0.05 min

Lab File: VL035682.D

Acq: 21 Sep 2020 10:36

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tot Ion:128 Resp: 4734411

Ion Ratio Lower Upper

128 100

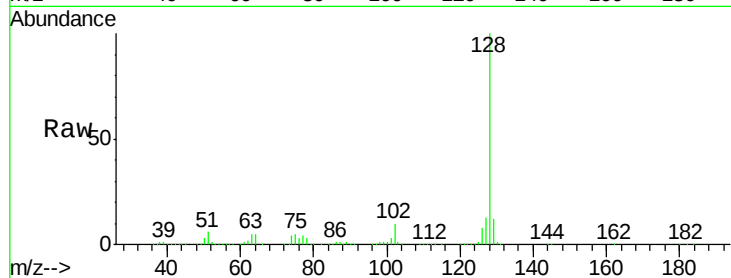
127 13.3 11.4 17.2

129 11.7 10.5 15.7

Manual Integrations  
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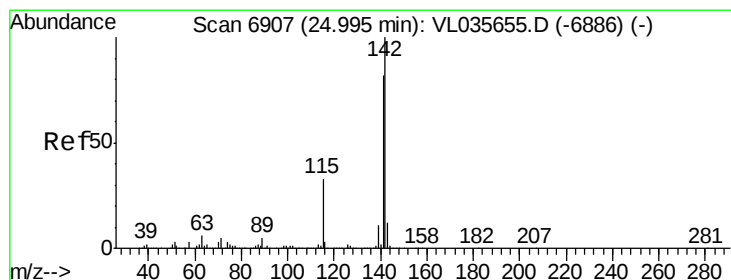
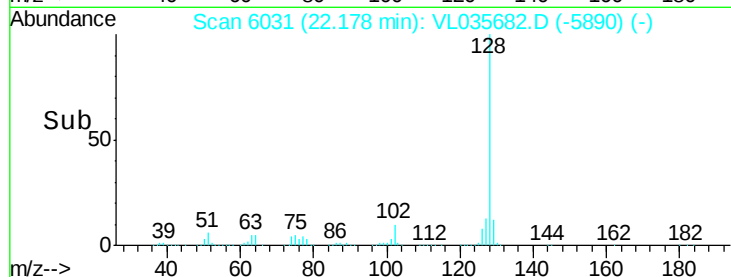
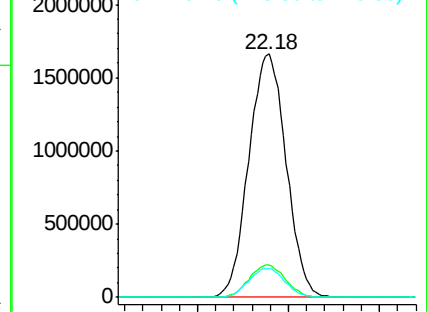
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Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 7.528 ppbv

RT: 24.96 min Scan# 6896

Delta R.T. -0.03 min

Lab File: VL035682.D

Acq: 21 Sep 2020 10:36

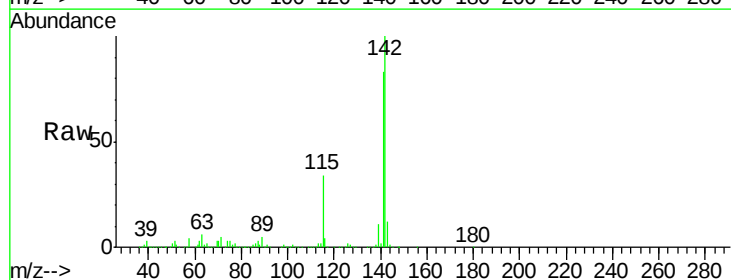
Tgt Ion:142 Resp: 1335643

Ion Ratio Lower Upper

142 100

141 84.2 67.6 101.4

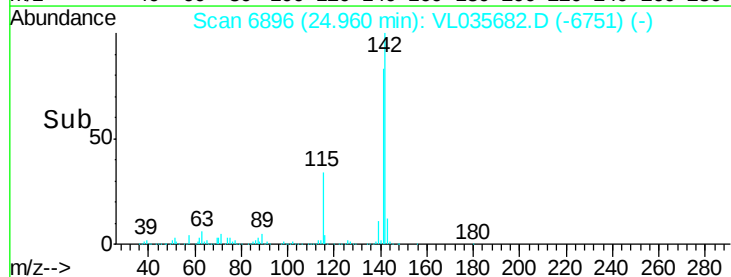
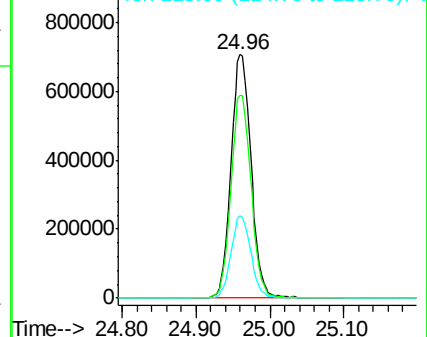
115 33.6 25.8 38.8

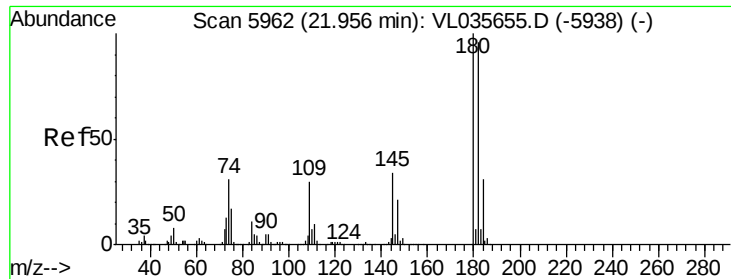


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81  
 1,2,4-Trichlorobenzene  
 Concen: 8.048 ppbv  
 RT: 21.91 min Scan# 5946  
 Delta R.T. -0.05 min  
 Lab File: VL035682.D  
 Acq: 21 Sep 2020 10:36

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.1  | 76.3  | 114.5 |
| 184     | 30.9  | 25.3  | 37.9  |

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