

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL072320\  
 Data File : VL035223.D  
 Acq On : 23 Jul 2020 9:18  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400ml/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Manual Integrations  
 APPROVED

MMDadoda  
 7/27/2020 12:29:27 PM

Quant Time: Jul 25 11:18:37 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL070820AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Jul 08 07:05:23 2020  
 QLast Update : Wed Jul 08 07:05:23 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.65  | 49   | 1194112  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.18  | 114  | 2859067  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.11 | 117  | 2901703m | 10.00 | ppbv  | 0.00     |

## System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.45  | 95    | 2188653  | 9.28     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 92.80% |

## Target Compounds

|                                |      |     |         |        |      | Qvalue |
|--------------------------------|------|-----|---------|--------|------|--------|
| 2) Dichlorodifluoromethane     | 3.00 | 85  | 1185462 | 7.084  | ppbv | 99     |
| 3) Chlorodifluoromethane       | 2.94 | 51  | 1288635 | 9.770  | ppbv | 99     |
| 4) Chloromethane               | 3.09 | 50  | 725257  | 9.756  | ppbv | 96     |
| 5) Vinyl Chloride              | 3.21 | 62  | 749180  | 9.431  | ppbv | 99     |
| 6) Bromomethane                | 3.43 | 94  | 470904  | 10.445 | ppbv | 98     |
| 7) Chloroethane                | 3.51 | 64  | 281129  | 10.010 | ppbv | 97     |
| 8) Dichlorotetrafluoroethane   | 3.14 | 85  | 1690162 | 9.215  | ppbv | 99     |
| 9) Propene                     | 2.96 | 41  | 500204  | 10.035 | ppbv | 98     |
| 10) Heptane                    | 8.13 | 43  | 1455817 | 11.376 | ppbv | 99     |
| 11) Trichlorofluoromethane     | 3.91 | 101 | 1850711 | 9.793  | ppbv | 99     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.45 | 101 | 1306976 | 9.848  | ppbv | 99     |
| 13) Ethanol                    | 3.56 | 45  | 127980m | 8.064  | ppbv |        |
| 14) Bromoethene                | 3.70 | 108 | 566954  | 10.380 | ppbv | 99     |
| 15) Acetone                    | 3.81 | 43  | 1402757 | 8.677  | ppbv | 99     |
| 16) 1,3-Butadiene              | 3.28 | 39  | 668223  | 10.768 | ppbv | 100    |
| 17) tert-Butyl alcohol         | 4.26 | 59  | 1582799 | 11.065 | ppbv | 100    |
| 18) 1,1-Dichloroethene         | 4.25 | 96  | 603626  | 10.272 | ppbv | 93     |
| 19) Isopropyl Alcohol          | 3.93 | 45  | 1038110 | 10.644 | ppbv | 99     |
| 20) Methylene Chloride         | 4.31 | 84  | 541511  | 7.698  | ppbv | 99     |
| 21) Allyl Chloride             | 4.38 | 41  | 959635  | 10.199 | ppbv | 100    |
| 22) trans-1,2-Dichloroethene   | 4.86 | 96  | 586429  | 9.996  | ppbv | 96     |
| 23) Vinyl Acetate              | 5.05 | 43  | 1846938 | 10.554 | ppbv | 97     |
| 24) 1,1-Dichloroethane         | 4.99 | 63  | 1521111 | 10.122 | ppbv | 99     |
| 25) Ethyl Acetate              | 5.66 | 43  | 2592313 | 10.333 | ppbv | 100    |
| 26) Hexane                     | 5.67 | 57  | 1148787 | 10.385 | ppbv | 99     |
| 27) Carbon Disulfide           | 4.52 | 76  | 1620304 | 10.490 | ppbv | 99     |
| 28) Methyl tert-Butyl Ether    | 5.01 | 73  | 1778142 | 10.551 | ppbv | 99     |
| 29) Chloroform                 | 5.74 | 83  | 1839098 | 9.917  | ppbv | 97     |
| 30) Cyclohexane                | 7.13 | 84  | 958270  | 11.708 | ppbv | 99     |
| 31) cis-1,2-Dichloroethene     | 5.53 | 61  | 1128927 | 10.790 | ppbv | 98     |
| 32) 1,1,1-Trichloroethane      | 6.51 | 97  | 1834108 | 9.868  | ppbv | 99     |
| 34) 2-Butanone                 | 5.22 | 43  | 1595048 | 10.452 | ppbv | 100    |
| 35) Carbon Tetrachloride       | 7.02 | 117 | 1883645 | 10.149 | ppbv | 96     |
| 36) Benzene                    | 6.89 | 78  | 2239242 | 10.822 | ppbv | 100    |
| 37) 1,2-Dichloroethane         | 6.30 | 62  | 1417974 | 10.211 | ppbv | 100    |
| 38) Trichloroethene            | 7.84 | 130 | 920118  | 10.913 | ppbv | 94     |
| 39) 1,2-Dichloropropane        | 7.62 | 63  | 890031  | 10.816 | ppbv | 100    |
| 40) 1,4-Dioxane                | 7.83 | 88  | 349799  | 10.678 | ppbv | 94     |
| 41) Tetrahydrofuran            | 6.03 | 42  | 858657  | 11.245 | ppbv | 99     |
| 42) Bromodichloromethane       | 7.80 | 83  | 1963463 | 10.588 | ppbv | 99     |
| 43) Methyl Methacrylate        | 8.02 | 69  | 1044571 | 11.942 | ppbv | 98     |

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 Acq On : 23 Jul 2020 9:18  
 Operator : SY/AP  
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 Misc : 400ml/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Manual Integrations  
 APPROVED

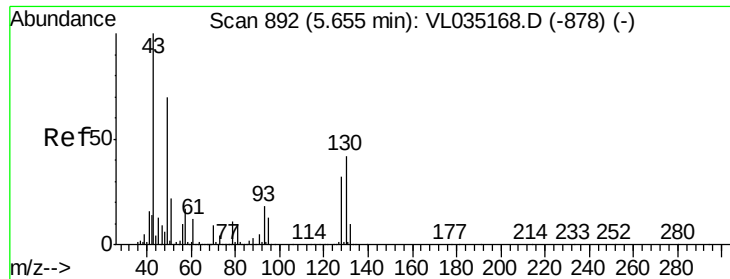
MMDadoda  
 7/27/2020 12:29:27 PM

Quant Time: Jul 25 11:18:37 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL070820AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Jul 08 07:05:23 2020  
 QLast Update : Wed Jul 08 07:05:23 2020  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.87  | 57   | 3920215  | 10.975 | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 9.29  | 75   | 1156349  | 12.583 | ppbv   | 95       |
| 46) cis-1,3-Dichloropropene   | 8.71  | 75   | 1387434  | 12.735 | ppbv   | 97       |
| 47) 1,1,2-Trichloroethane     | 9.49  | 97   | 971253   | 10.783 | ppbv   | 98       |
| 48) Dibromochloromethane      | 10.33 | 129  | 1660898  | 11.333 | ppbv   | 99       |
| 49) Bromoform                 | 13.07 | 173  | 1472182  | 11.483 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.74  | 43   | 2467657  | 11.267 | ppbv   | 100      |
| 51) 2-Hexanone                | 10.15 | 43   | 1975934  | 11.832 | ppbv # | 99       |
| 52) Tetrachloroethene         | 11.25 | 164  | 828354   | 10.718 | ppbv   | 98       |
| 53) Toluene                   | 9.82  | 91   | 2658433  | 12.173 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.63 | 107  | 1485460  | 11.113 | ppbv   | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 12.15 | 131  | 1282140  | 9.973  | ppbv # | 92       |
| 57) Chlorobenzene             | 12.17 | 112  | 2101176  | 9.825  | ppbv   | 99       |
| 58) Ethyl Benzene             | 12.74 | 91   | 3602043  | 11.231 | ppbv   | 99       |
| 59) m/p-Xylene                | 13.02 | 91   | 6007846m | 21.018 | ppbv   |          |
| 60) o-Xylene                  | 13.72 | 91   | 3034014  | 10.639 | ppbv   | 99       |
| 61) Styrene                   | 13.56 | 104  | 2149612  | 12.198 | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.70 | 105  | 4478142  | 10.594 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.71 | 83   | 2209462  | 9.271  | ppbv   | 99       |
| 64) n-propylbenzene           | 15.60 | 120  | 1197749  | 10.969 | ppbv   | 98       |
| 65) tert-Butylbenzene         | 16.78 | 119  | 3988484  | 10.505 | ppbv   | 100      |
| 66) Benzyl Chloride           | 17.03 | 91   | 1653663  | 12.226 | ppbv   | 100      |
| 67) sec-Butylbenzene          | 17.33 | 105  | 5685016  | 10.271 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 17.69 | 119  | 4741788  | 10.931 | ppbv   | 100      |
| 70) n-Butylbenzene            | 18.59 | 91   | 4962078  | 10.788 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 15.48 | 91   | 3487267  | 10.902 | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 15.87 | 105  | 3597911  | 11.197 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 16.03 | 105  | 3363725  | 10.855 | ppbv   | 96       |
| 74) 1,2,4-Trimethylbenzene    | 16.80 | 105  | 3532895  | 10.317 | ppbv   | 96       |
| 75) 1,3-Dichlorobenzene       | 17.03 | 146  | 2052855  | 9.466  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.18 | 146  | 2064816  | 10.245 | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 17.85 | 146  | 1980388  | 10.143 | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.41 | 225  | 1383957  | 8.970  | ppbv   | 99       |
| 79) Naphthalene               | 22.26 | 128  | 2975296  | 13.427 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 25.01 | 142  | 1081076  | 20.654 | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 21.99 | 180  | 1661420  | 11.835 | ppbv   | 100      |

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





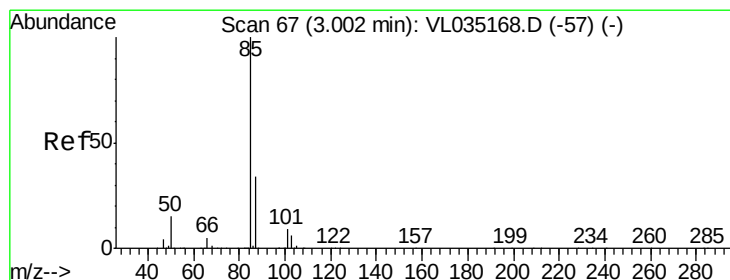
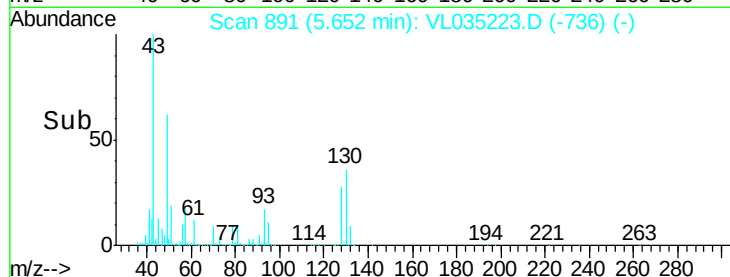
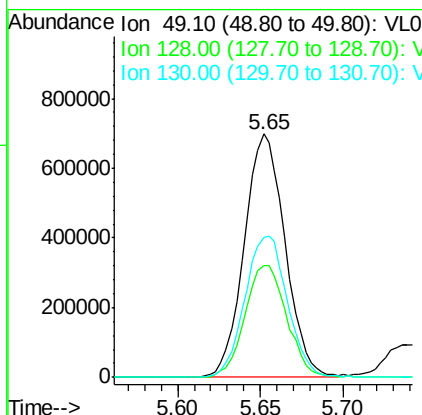
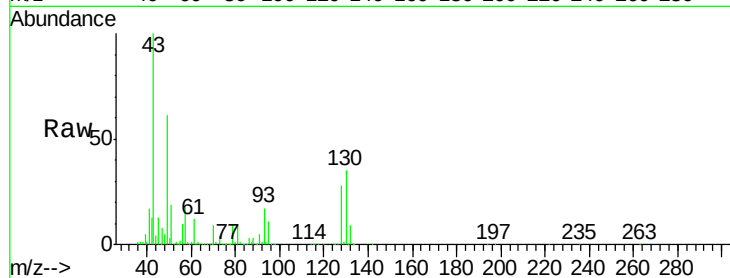
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 Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 5.65 min Scan# 891  
 Delta R.T. -0.00 min  
 Lab File: VL035223.D  
 Acq: 23 Jul 2020 9:18

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tgt Ion: 49 Resp: 1194112  
 Ion Ratio Lower Upper  
 49 100  
 128 47.4 23.8 71.4  
 130 60.8 29.9 89.8

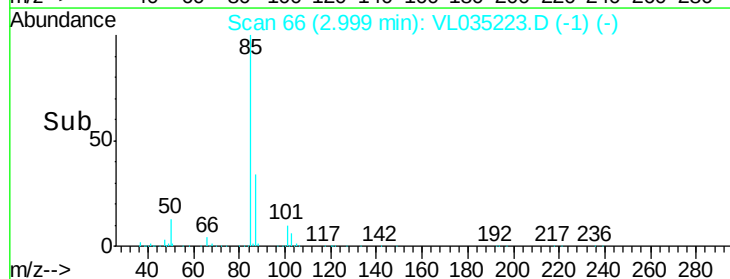
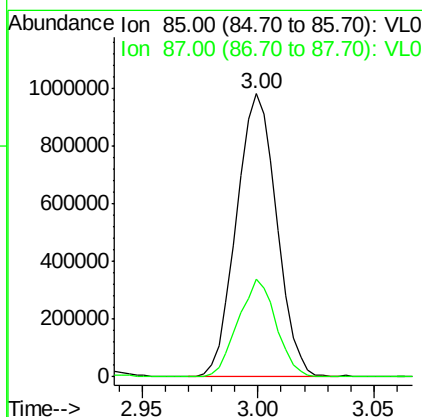
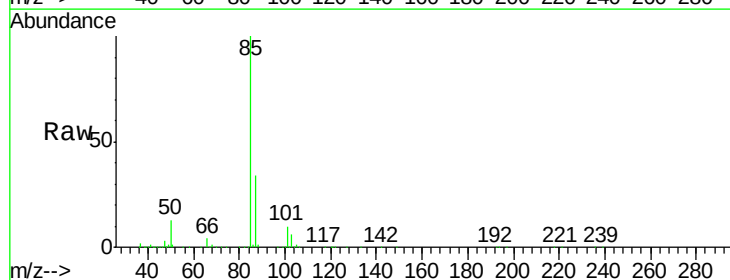
Manual Integrations  
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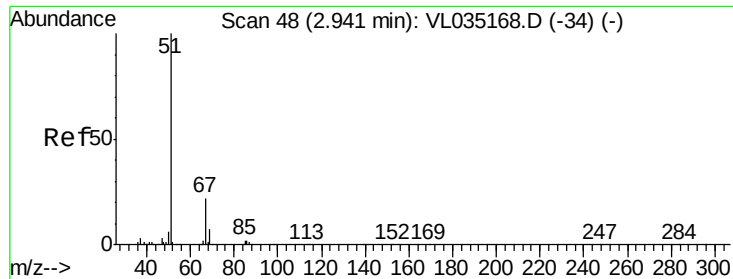
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#2  
 Dichlorodifluoromethane  
 Concen: 7.084 ppbv  
 RT: 3.00 min Scan# 66  
 Delta R.T. -0.00 min  
 Lab File: VL035223.D  
 Acq: 23 Jul 2020 9:18

Tgt Ion: 85 Resp: 1185462  
 Ion Ratio Lower Upper  
 85 100  
 87 34.3 27.0 40.6





#3

Chlorodifluoromethane

Concen: 9.770 ppbv

RT: 2.94 min Scan# 47

Delta R.T. -0.00 min

Lab File: VL035223.D

Acq: 23 Jul 2020 9:18

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 51 Resp: 1288635

Ion Ratio Lower Upper

51 100

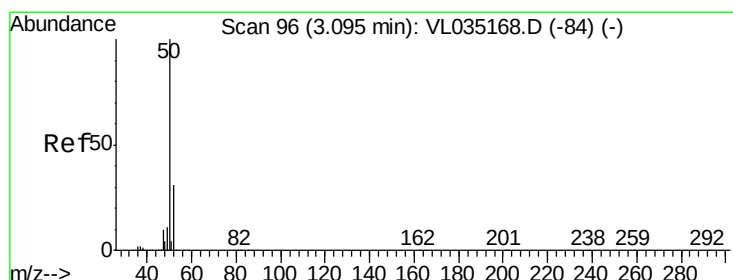
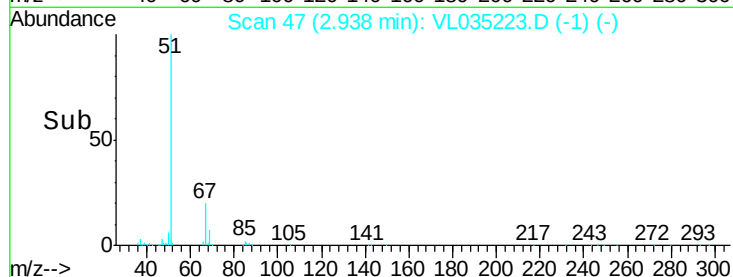
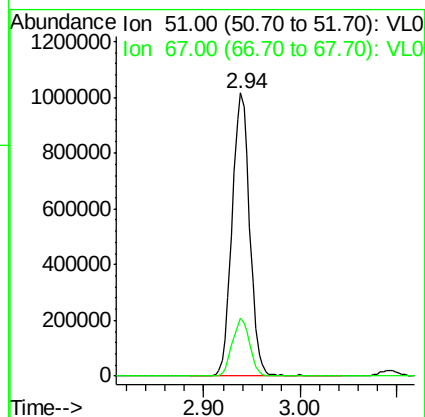
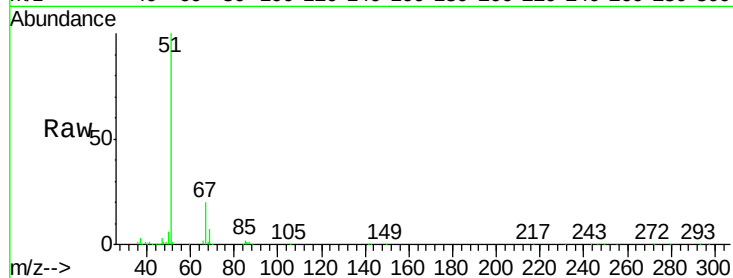
67 20.1 16.6 24.8

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#4

Chloromethane

Concen: 9.756 ppbv

RT: 3.09 min Scan# 95

Delta R.T. -0.00 min

Lab File: VL035223.D

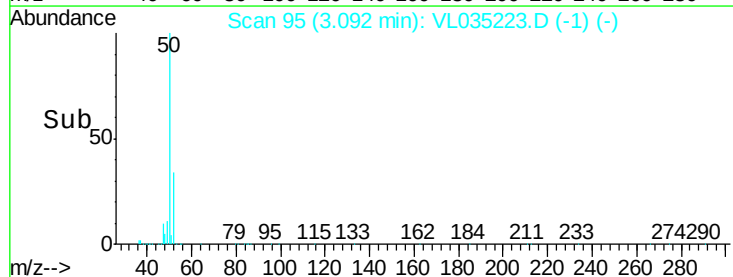
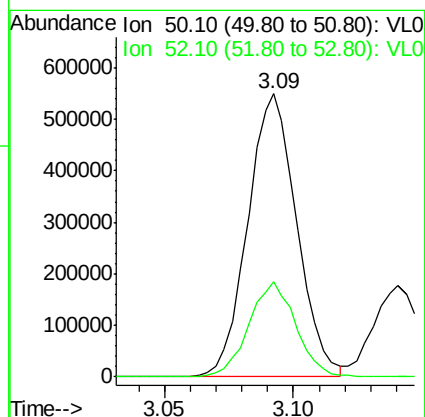
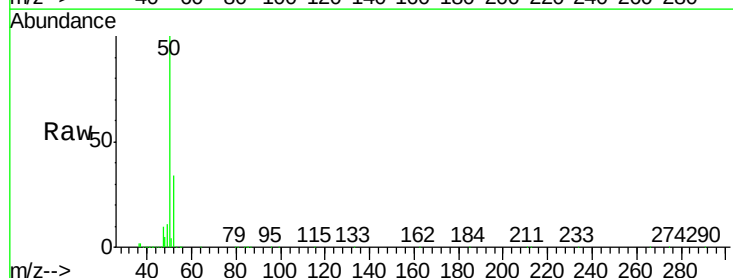
Acq: 23 Jul 2020 9:18

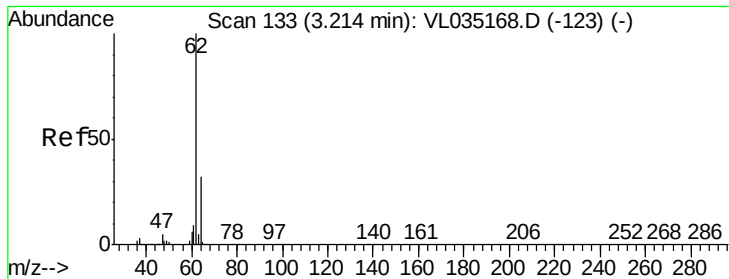
Tgt Ion: 50 Resp: 725257

Ion Ratio Lower Upper

50 100

52 33.7 25.0 37.6





#5

Vinyl Chloride

Concen: 9.431 ppbv

RT: 3.21 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL035223.D

Acq: 23 Jul 2020 9:18

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 62 Resp: 749180

Ion Ratio Lower Upper

62 100

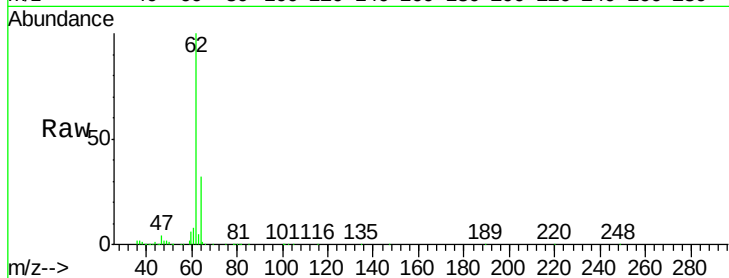
64 31.6 25.9 38.9

Manual Integrations

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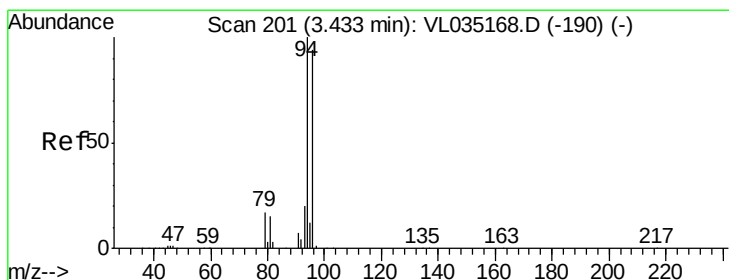
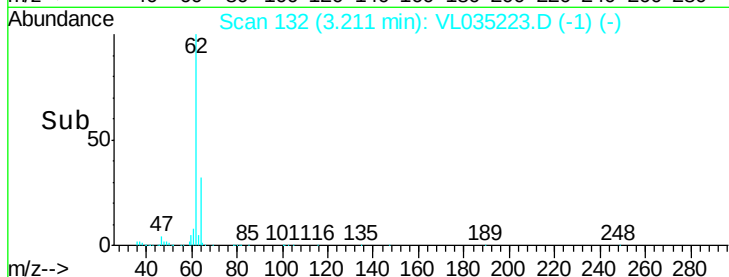
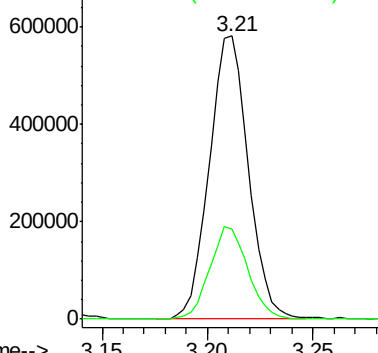
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 10.445 ppbv

RT: 3.43 min Scan# 200

Delta R.T. -0.00 min

Lab File: VL035223.D

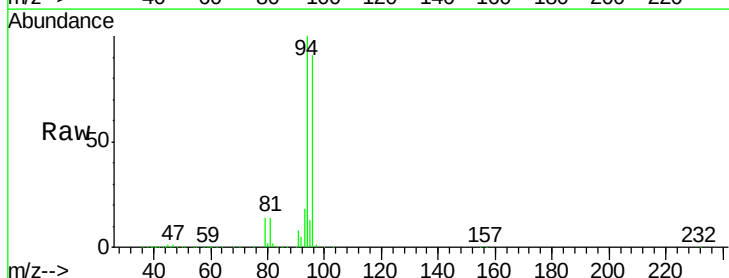
Acq: 23 Jul 2020 9:18

Tgt Ion: 94 Resp: 470904

Ion Ratio Lower Upper

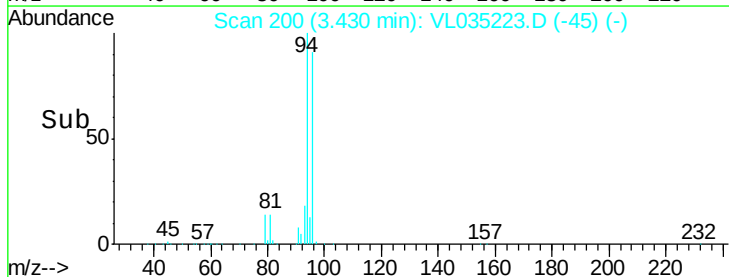
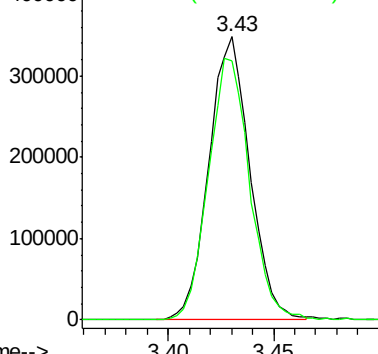
94 100

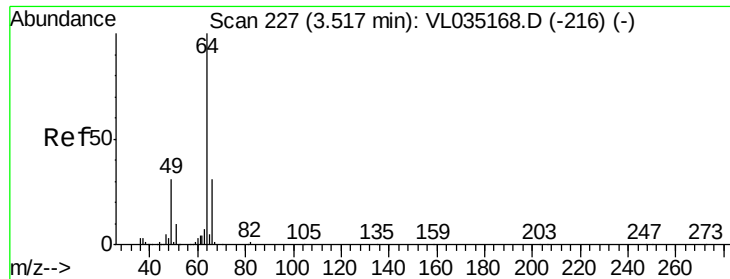
96 91.4 74.8 112.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 10.010 ppbv

RT: 3.51 min Scan# 226

Delta R.T. -0.00 min

Lab File: VL035223.D

Acq: 23 Jul 2020 9:18

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 64 Resp: 281129

Ion Ratio Lower Upper

64 100

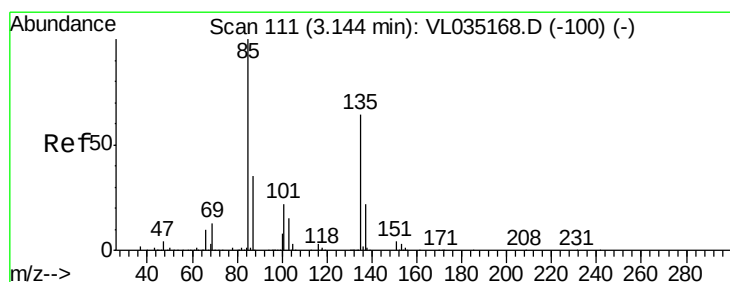
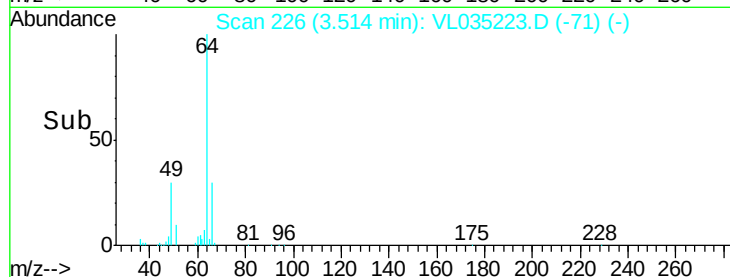
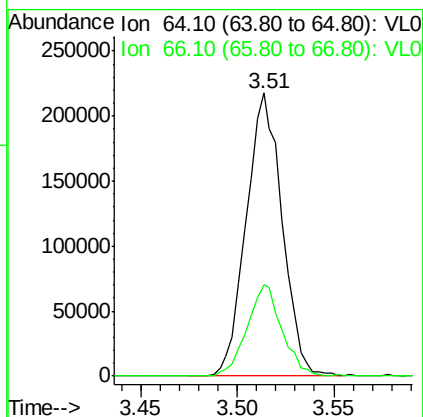
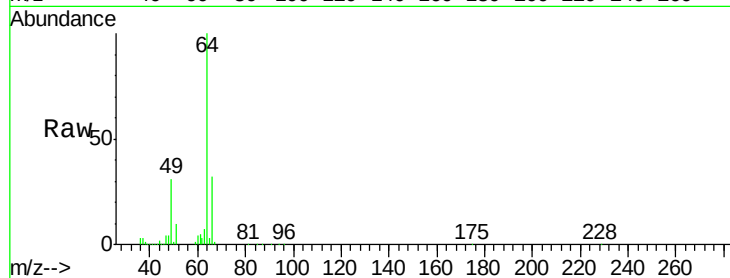
66 32.4 24.6 36.8

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 9.215 ppbv

RT: 3.14 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL035223.D

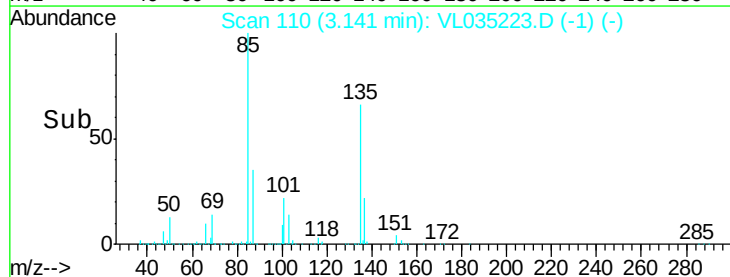
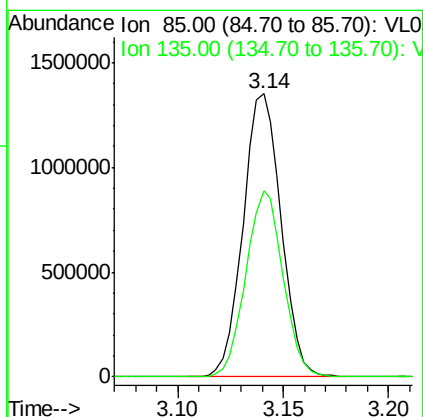
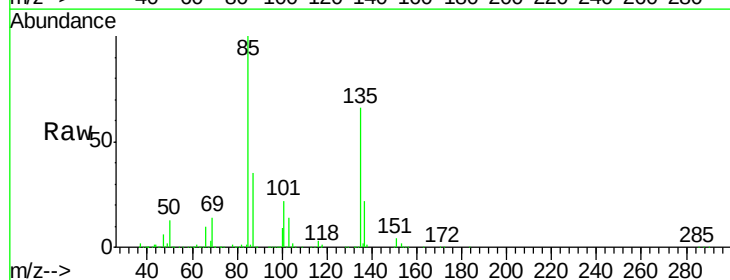
Acq: 23 Jul 2020 9:18

Tgt Ion: 85 Resp: 1690162

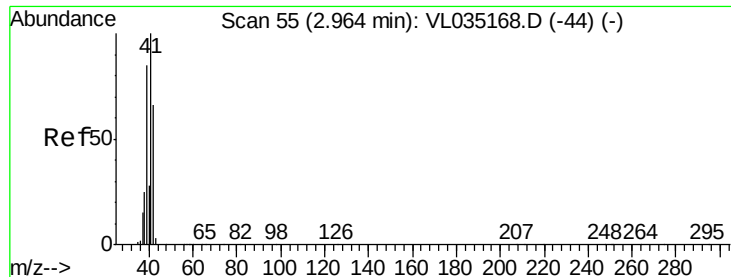
Ion Ratio Lower Upper

85 100

135 64.4 52.1 78.1







#9

Propene

Concen: 10.035 ppbv

RT: 2.96 min Scan# 54

Delta R.T. -0.00 min

Lab File: VL035223.D

Acq: 23 Jul 2020 9:18

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 41 Resp: 500204

Ion Ratio Lower Upper

41 100

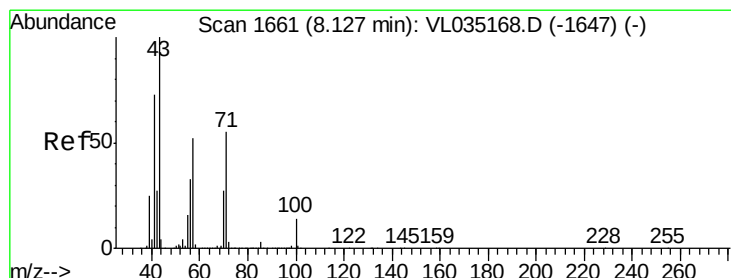
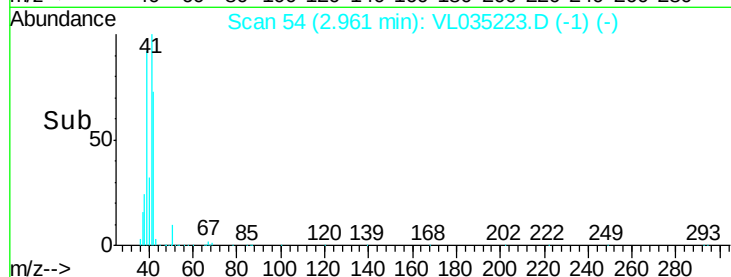
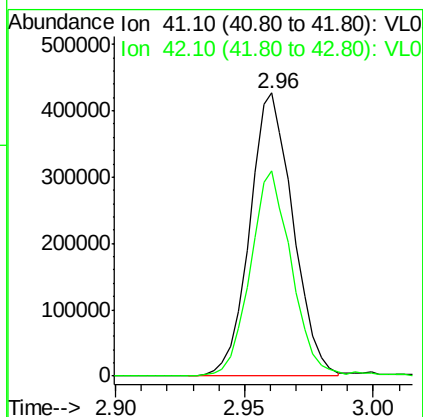
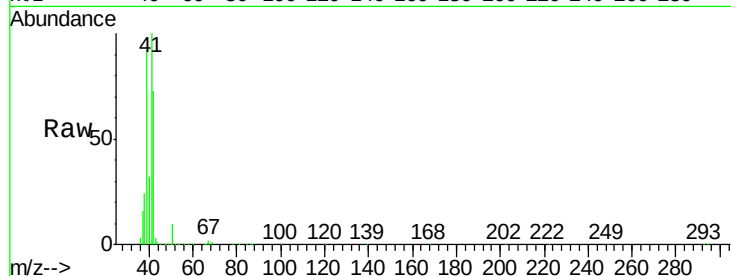
42 70.1 54.6 81.8

Manual Integrations

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#10

Heptane

Concen: 11.376 ppbv

RT: 8.13 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VL035223.D

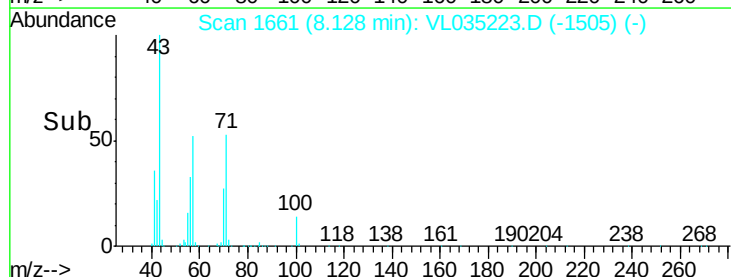
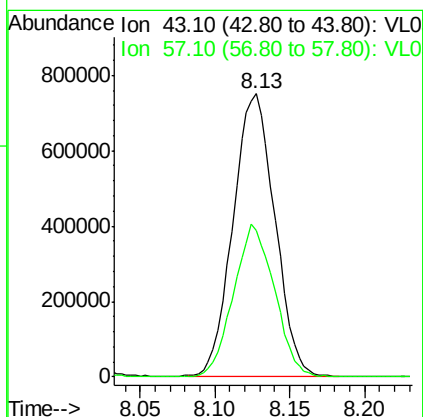
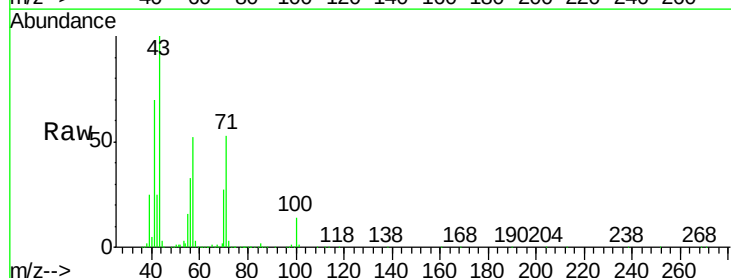
Acq: 23 Jul 2020 9:18

Tgt Ion: 43 Resp: 1455817

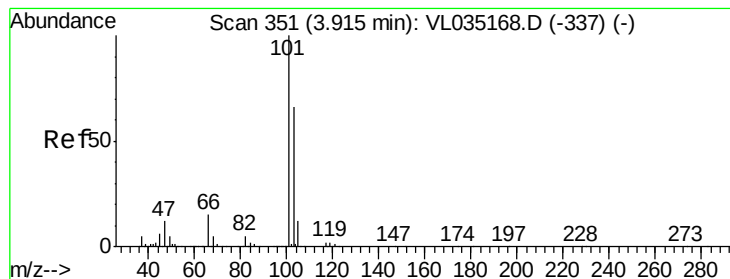
Ion Ratio Lower Upper

43 100

57 52.9 41.8 62.6







#11

Trichlorofluoromethane

Concen: 9.793 ppbv

RT: 3.91 min Scan# 350

Delta R.T. -0.00 min

Lab File: VL035223.D

Acq: 23 Jul 2020 9:18

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion:101 Resp: 1850711

Ion Ratio Lower Upper

101 100

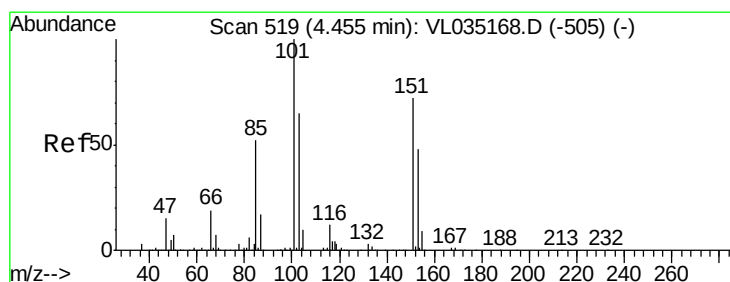
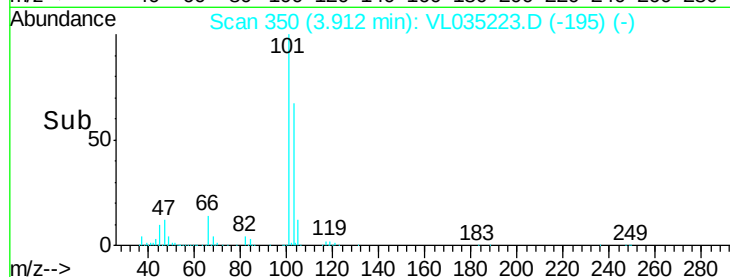
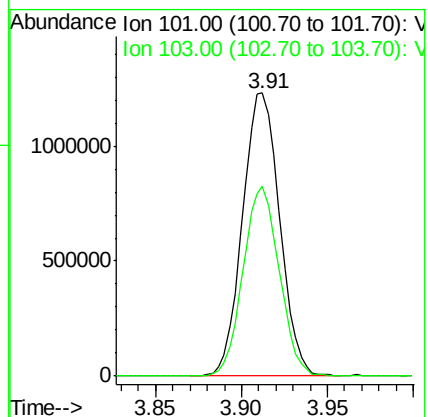
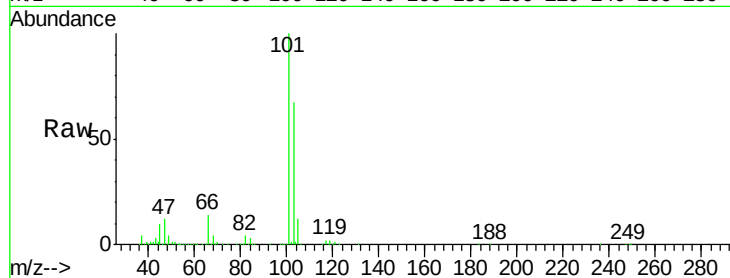
103 67.1 53.1 79.7

Manual Integrations

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#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.848 ppbv

RT: 4.45 min Scan# 518

Delta R.T. -0.00 min

Lab File: VL035223.D

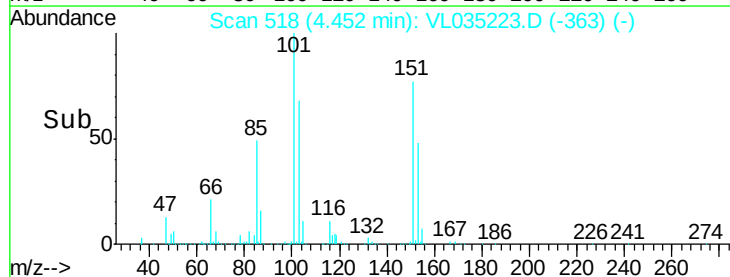
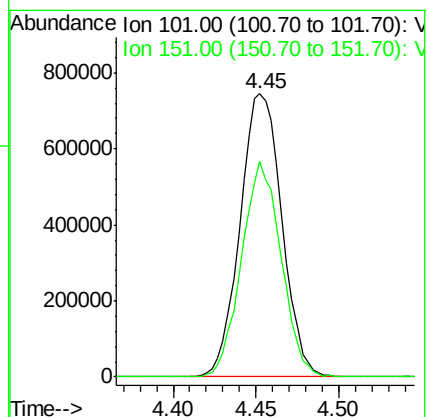
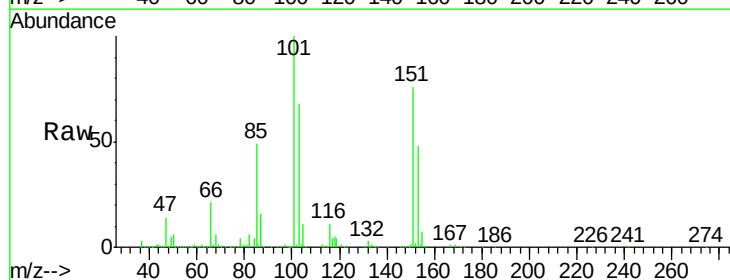
Acq: 23 Jul 2020 9:18

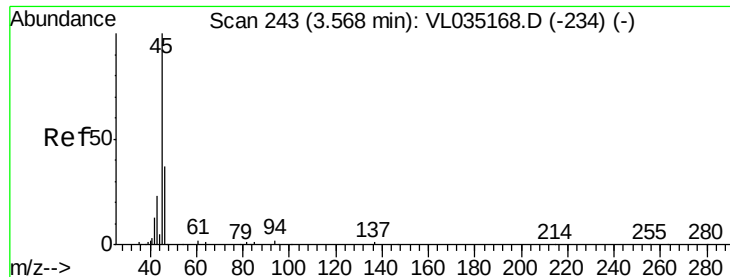
Tgt Ion:101 Resp: 1306976

Ion Ratio Lower Upper

101 100

151 71.9 57.0 85.4





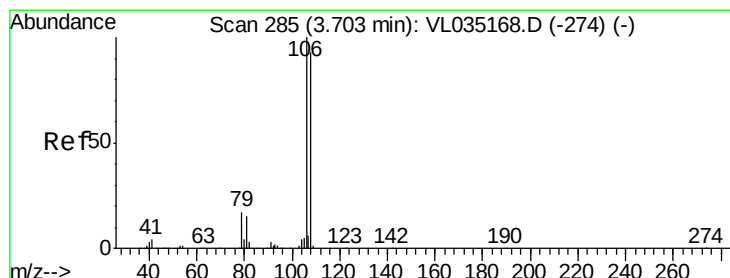
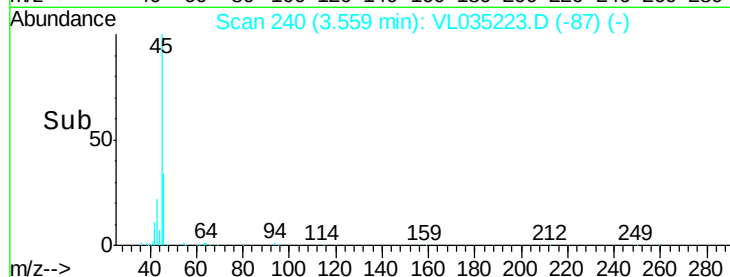
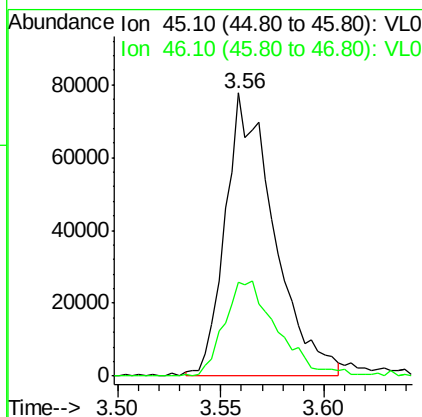
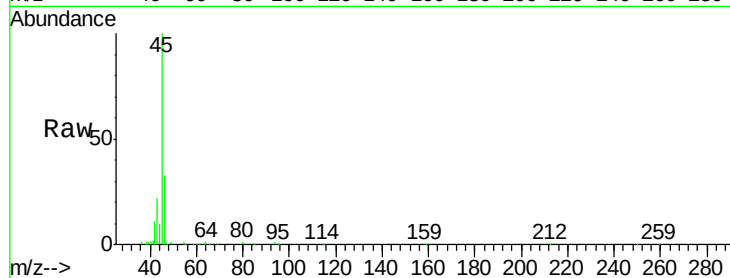
#13  
Ethanol  
Concen: 8.064 ppbv m  
RT: 3.56 min Scan# 240  
Delta R.T. -0.01 min  
Lab File: VL035223.D  
Acq: 23 Jul 2020 9:18

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 45 Resp: 127980  
Ion Ratio Lower Upper  
45 100  
46 37.1 16.2 65.0

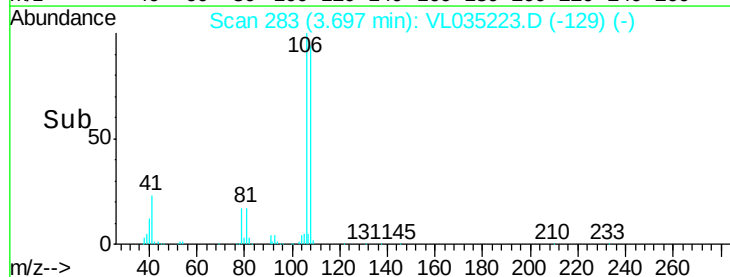
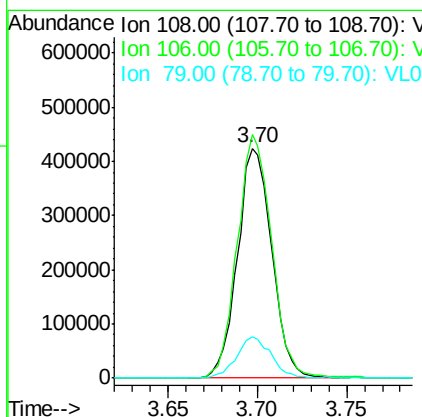
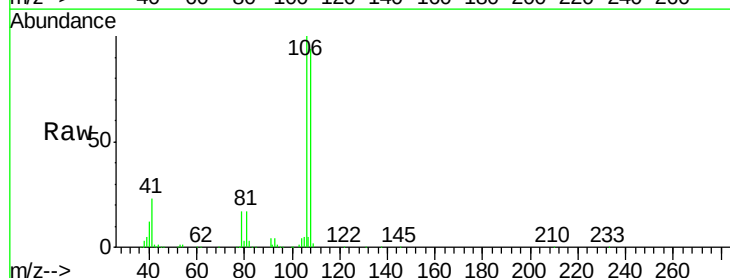
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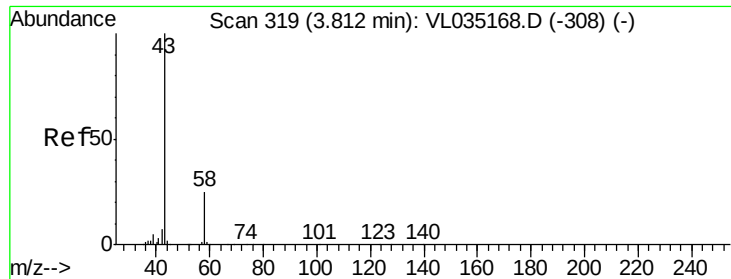
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#14  
Bromoethene  
Concen: 10.380 ppbv  
RT: 3.70 min Scan# 283  
Delta R.T. -0.01 min  
Lab File: VL035223.D  
Acq: 23 Jul 2020 9:18

Tgt Ion: 108 Resp: 566954  
Ion Ratio Lower Upper  
108 100  
106 106.5 86.2 129.2  
79 18.3 15.0 22.6





#15

Acetone

Concen: 8.677 ppbv

RT: 3.81 min Scan# 318

Delta R.T. -0.00 min

Lab File: VL035223.D

Acq: 23 Jul 2020 9:18

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 43 Resp: 1402757

Ion Ratio Lower Upper

43 100

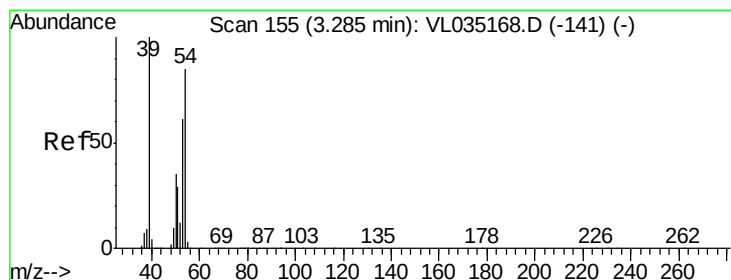
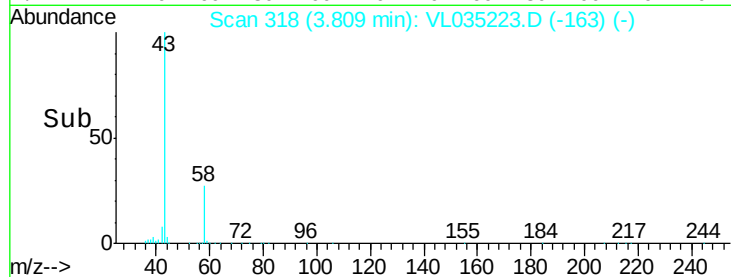
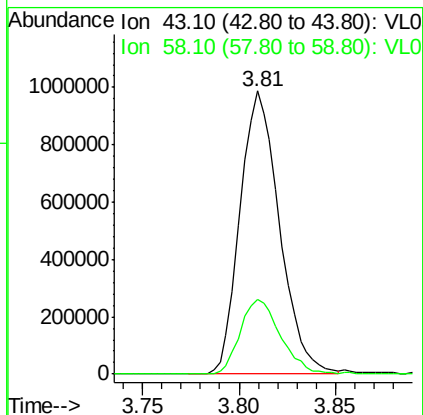
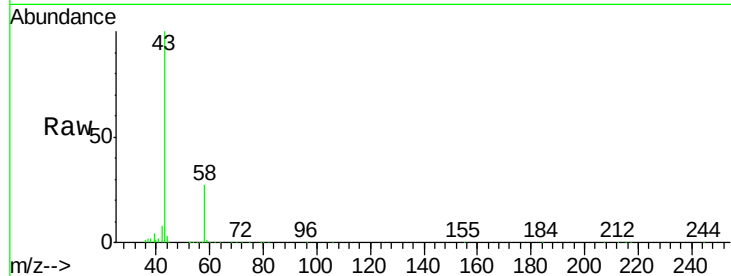
58 27.3 21.3 31.9

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#16

1,3-Butadiene

Concen: 10.768 ppbv

RT: 3.28 min Scan# 154

Delta R.T. -0.00 min

Lab File: VL035223.D

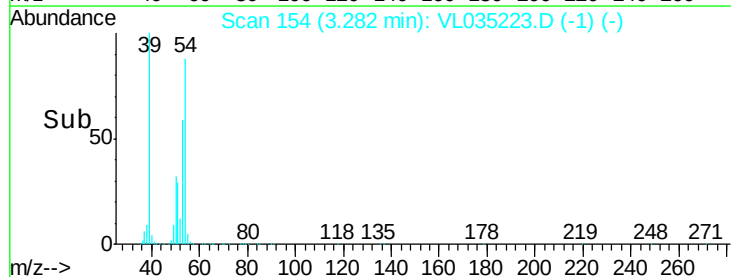
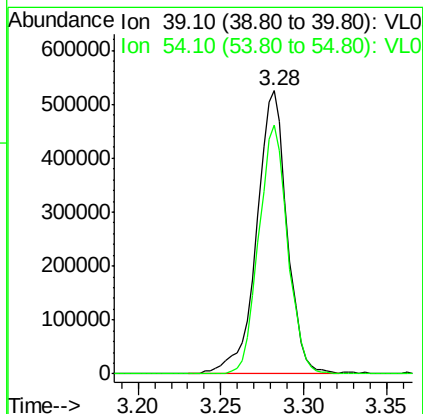
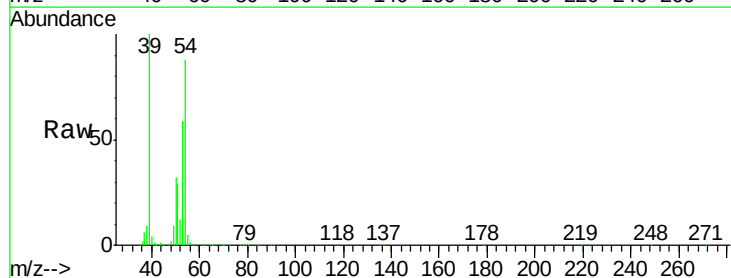
Acq: 23 Jul 2020 9:18

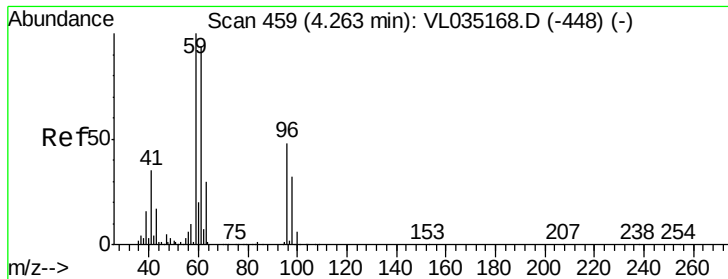
Tgt Ion: 39 Resp: 668223

Ion Ratio Lower Upper

39 100

54 83.9 67.2 100.8





#17

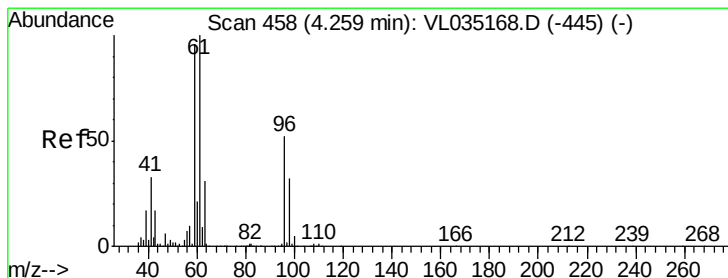
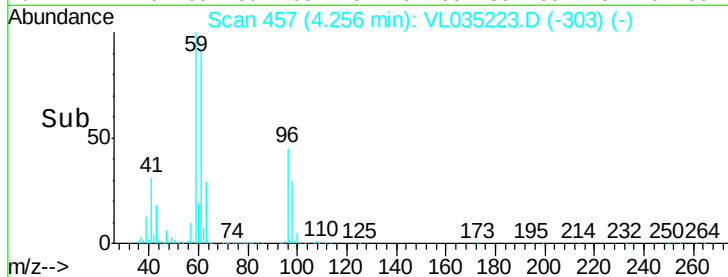
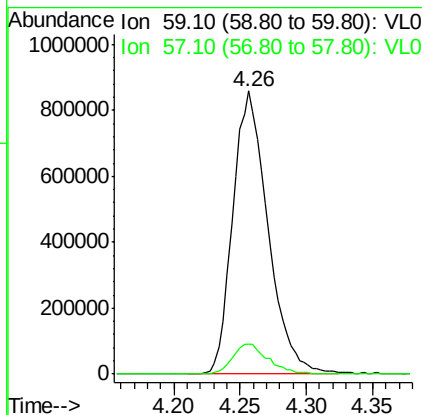
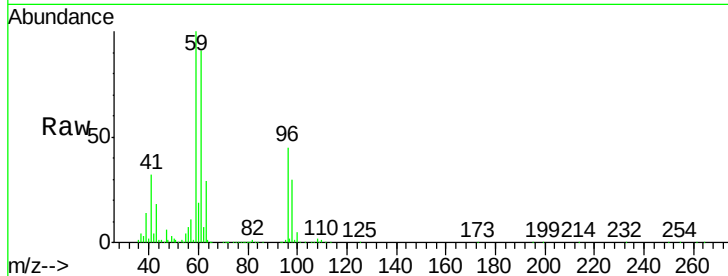
tert-Butyl alcohol  
Concen: 11.065 ppbv  
RT: 4.26 min Scan# 457  
Delta R.T. -0.01 min  
Lab File: VL035223.D  
Acq: 23 Jul 2020 9:18

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 59 Resp: 1582799  
Ion Ratio Lower Upper  
59 100  
57 10.8 8.6 12.8

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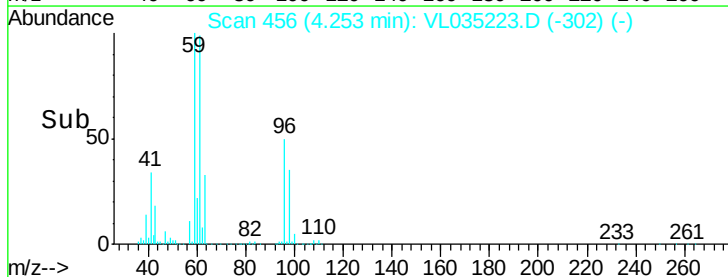
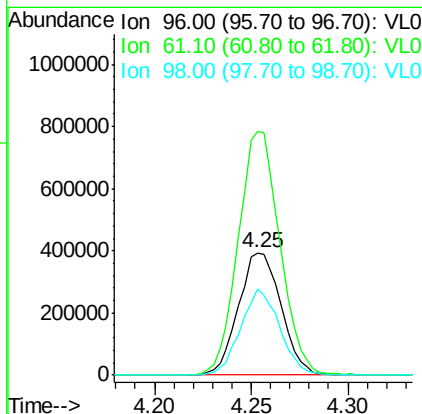
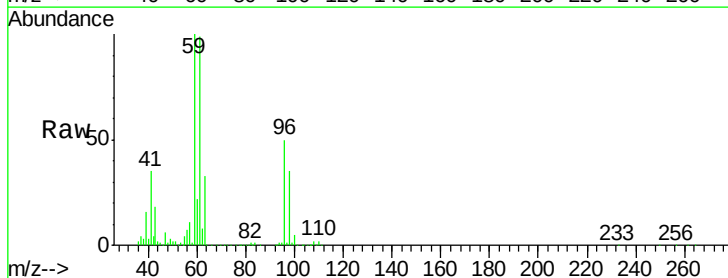
MMDadoda  
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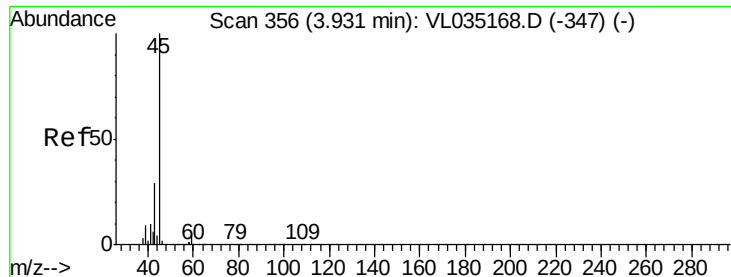


#18

1,1-Dichloroethene  
Concen: 10.272 ppbv  
RT: 4.25 min Scan# 456  
Delta R.T. -0.01 min  
Lab File: VL035223.D  
Acq: 23 Jul 2020 9:18

Tgt Ion: 96 Resp: 603626  
Ion Ratio Lower Upper  
96 100  
61 199.1 152.9 229.3  
98 70.5 48.7 73.1





#19

Isopropyl Alcohol

Concen: 10.644 ppbv

RT: 3.93 min Scan# 355

Delta R.T. -0.00 min

Lab File: VL035223.D

Acq: 23 Jul 2020 9:18

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 45 Resp: 1038110

Ion Ratio Lower Upper

45 100

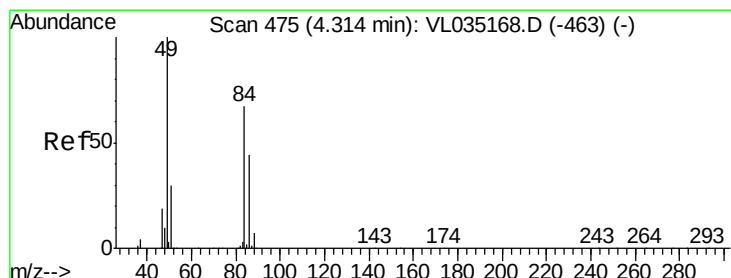
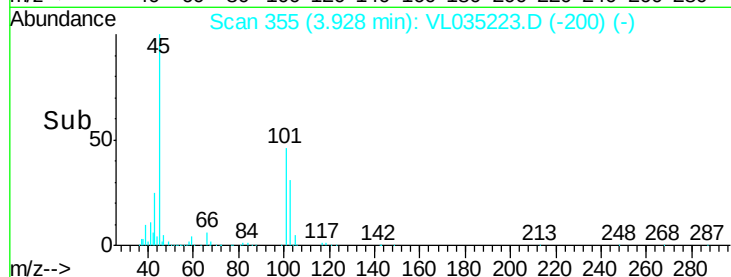
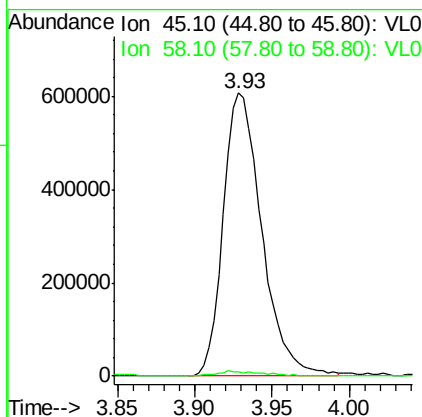
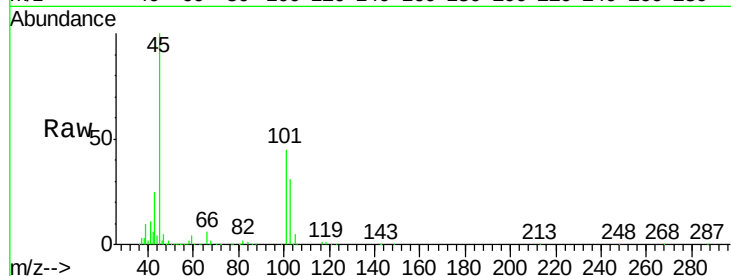
58 2.2 2.1 3.1

Manual Integrations

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#20

Methylene Chloride

Concen: 7.698 ppbv

RT: 4.31 min Scan# 474

Delta R.T. -0.00 min

Lab File: VL035223.D

Acq: 23 Jul 2020 9:18

Tgt Ion: 84 Resp: 541511

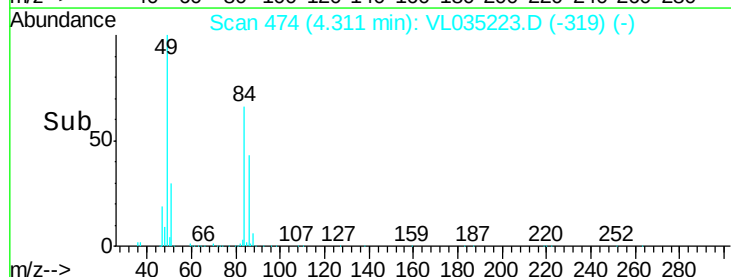
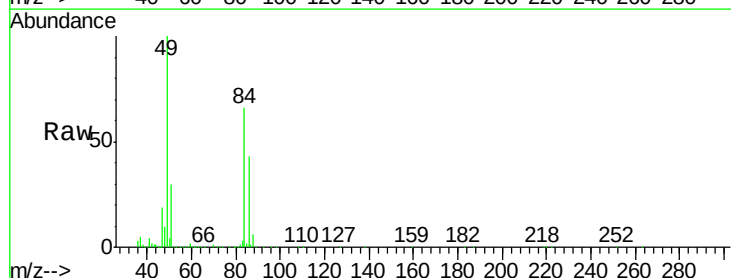
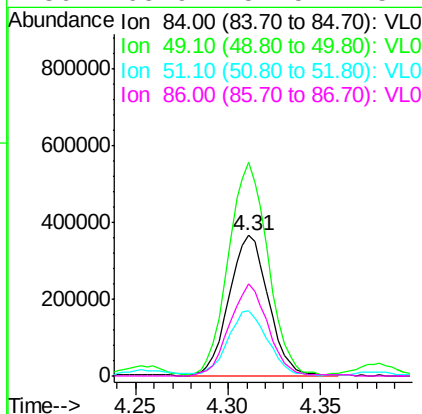
Ion Ratio Lower Upper

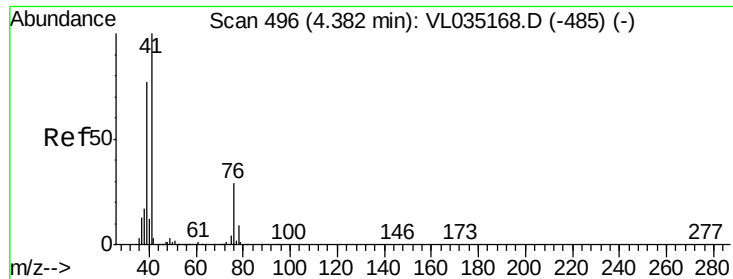
84 100

49 151.4 119.4 179.0

51 45.4 36.6 55.0

86 65.9 52.5 78.7





#21

Allyl Chloride

Concen: 10.199 ppbv

RT: 4.38 min Scan# 496

Delta R.T. 0.00 min

Lab File: VL035223.D

Acq: 23 Jul 2020 9:18

Instrument :

MSVOA\_L

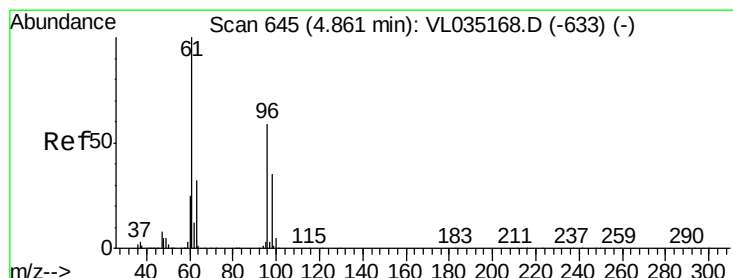
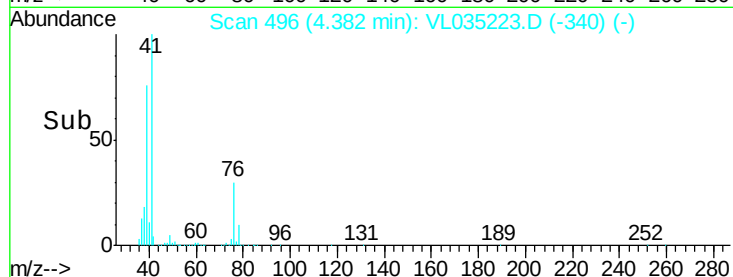
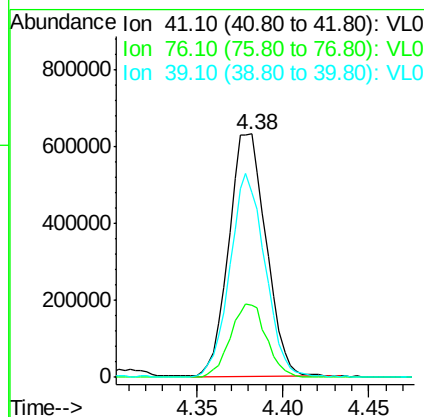
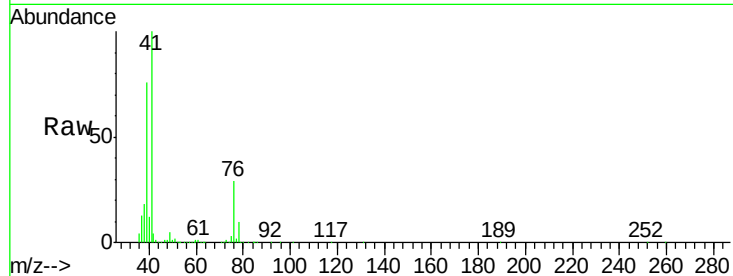
ClientSampleId :

VSTDCCC010

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 41    | Resp: | 959635 |
| Ion Ratio | Lower | Upper |        |
| 41        | 100   |       |        |
| 76        | 29.3  | 23.5  | 35.3   |
| 39        | 79.0  | 63.4  | 95.0   |

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#22

trans-1,2-Dichloroethene

Concen: 9.996 ppbv

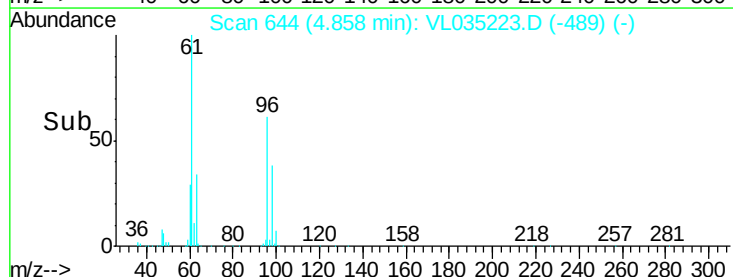
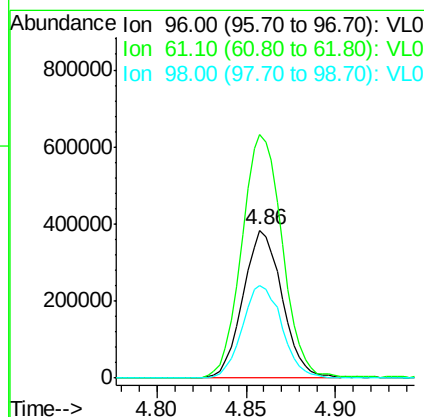
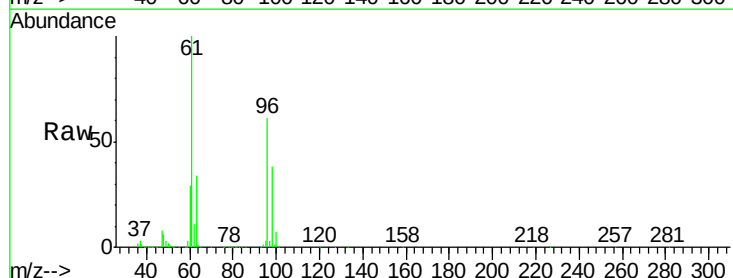
RT: 4.86 min Scan# 644

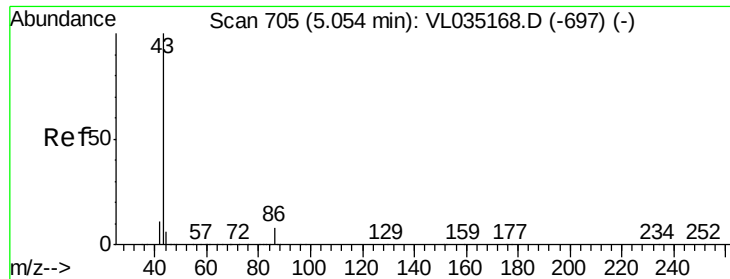
Delta R.T. -0.00 min

Lab File: VL035223.D

Acq: 23 Jul 2020 9:18

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 96    | Resp: | 586429 |
| Ion Ratio | Lower | Upper |        |
| 96        | 100   |       |        |
| 61        | 164.4 | 136.5 | 204.7  |
| 98        | 62.7  | 47.5  | 71.3   |





#23

Vinyl Acetate

Concen: 10.554 ppbv

RT: 5.05 min Scan# 704

Delta R.T. -0.00 min

Lab File: VL035223.D

Acq: 23 Jul 2020 9:18

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 43 Resp: 1846938

Ion Ratio Lower Upper

43 100

86 9.0 6.2 9.2

42 10.3 9.1 13.7

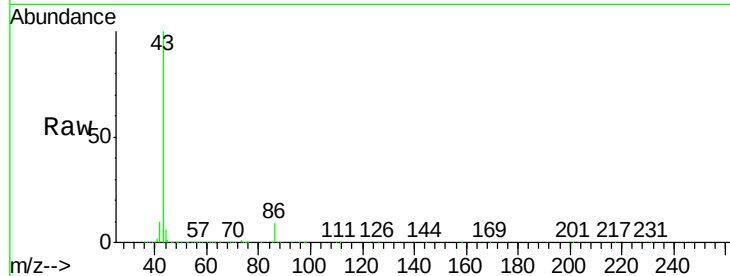
44 5.8 4.6 6.8

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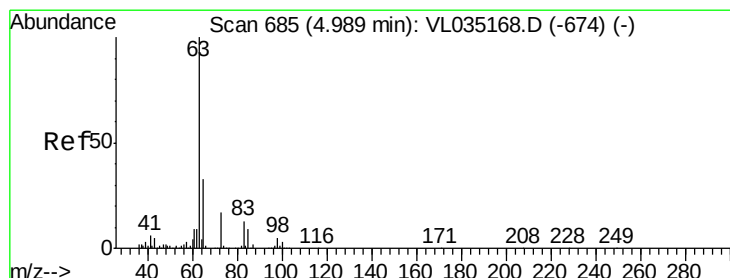
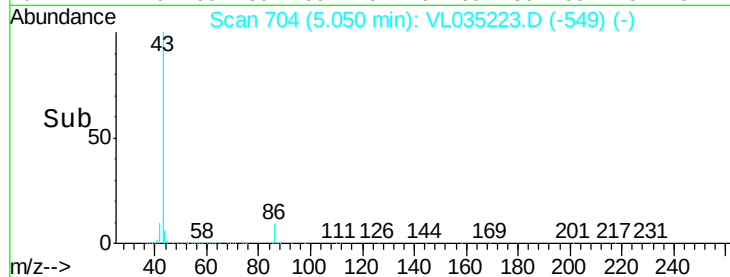
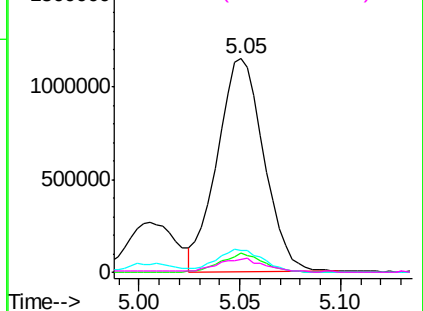


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 10.122 ppbv

RT: 4.99 min Scan# 684

Delta R.T. -0.00 min

Lab File: VL035223.D

Acq: 23 Jul 2020 9:18

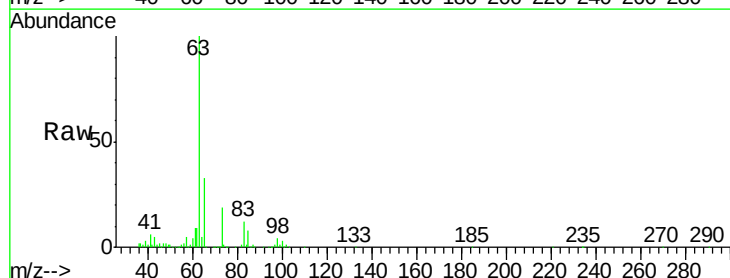
Tgt Ion: 63 Resp: 1521111

Ion Ratio Lower Upper

63 100

98 4.1 2.4 7.1

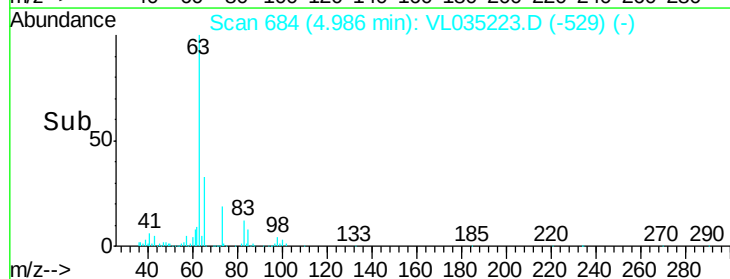
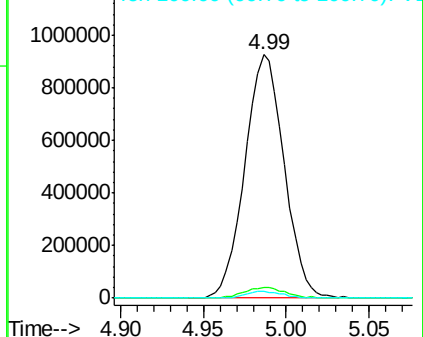
100 2.8 1.4 4.0



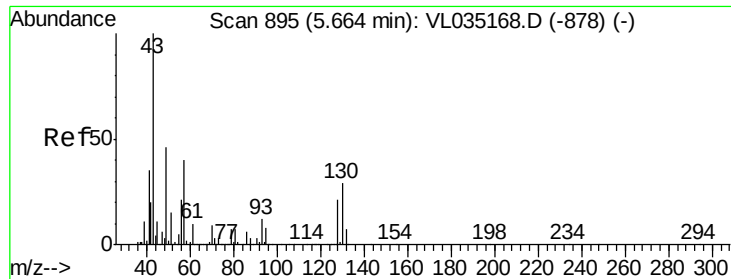
Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0







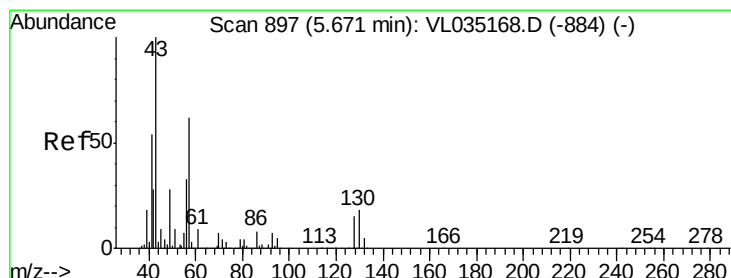
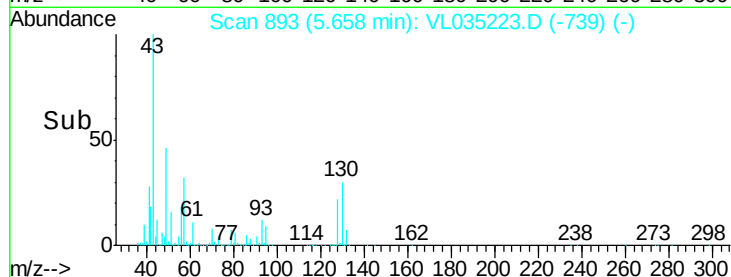
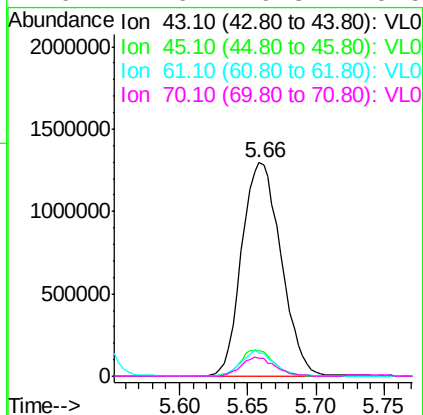
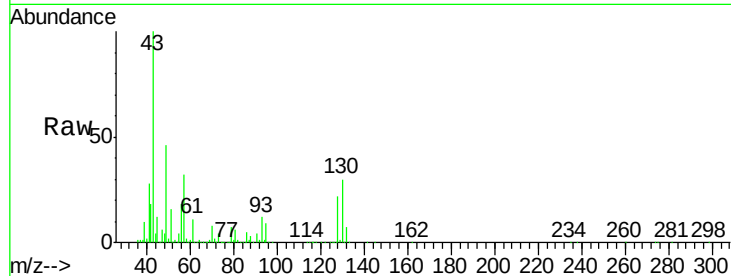
#25  
Ethyl Acetate  
Concen: 10.333 ppbv  
RT: 5.66 min Scan# 893  
Delta R.T. -0.01 min  
Lab File: VL035223.D  
Acq: 23 Jul 2020 9:18

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 45      | 10.4  | 8.5   | 12.7  |
| 61      | 10.1  | 8.1   | 12.1  |
| 70      | 7.6   | 6.3   | 9.5   |

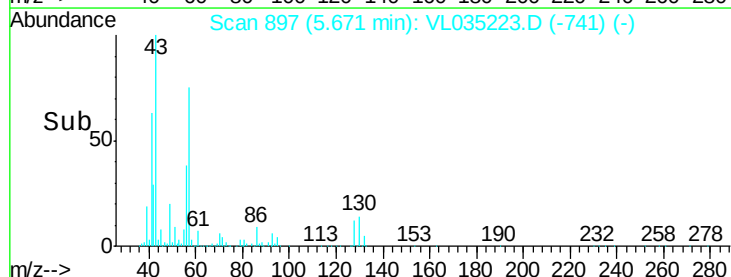
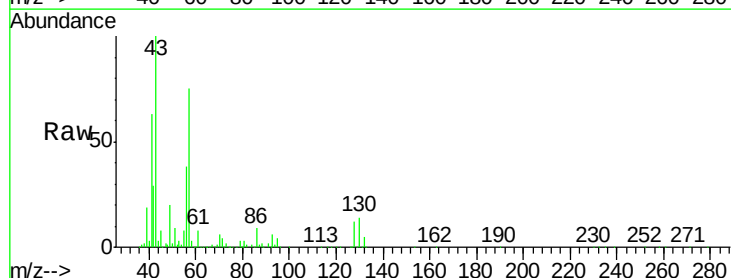
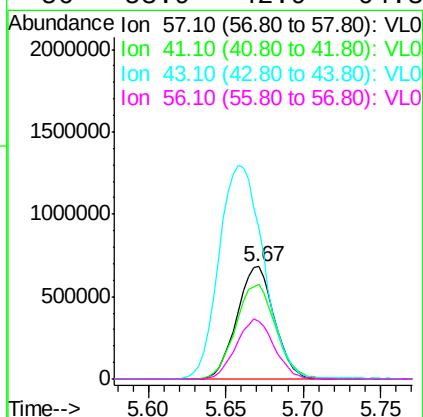
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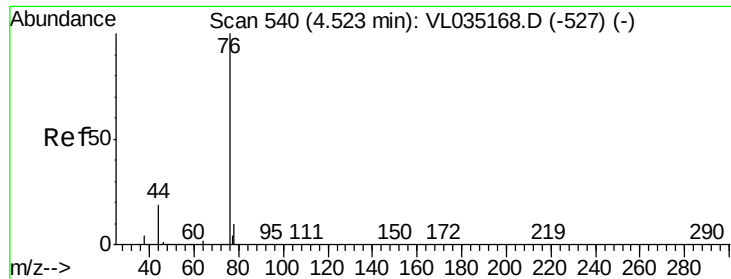
MMDadoda  
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#26  
Hexane  
Concen: 10.385 ppbv  
RT: 5.67 min Scan# 897  
Delta R.T. 0.00 min  
Lab File: VL035223.D  
Acq: 23 Jul 2020 9:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 57      | 100   |       |       |
| 41      | 91.1  | 72.9  | 109.3 |
| 43      | 226.5 | 179.5 | 269.3 |
| 56      | 53.9  | 42.9  | 64.3  |





#27

Carbon Disulfide

Concen: 10.490 ppbv

RT: 4.52 min Scan# 538

Delta R.T. -0.01 min

Lab File: VL035223.D

Acq: 23 Jul 2020 9:18

Instrument :

MSVOA\_L

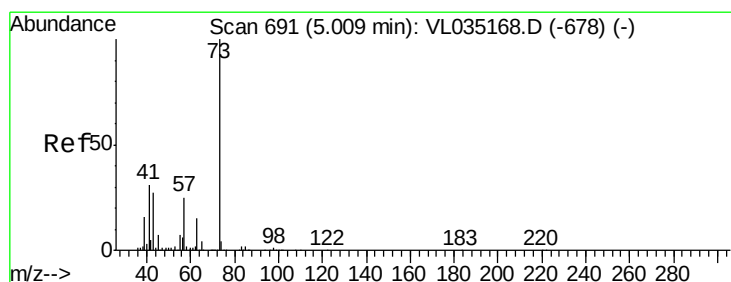
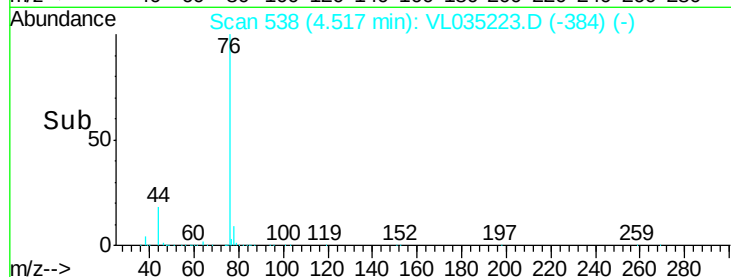
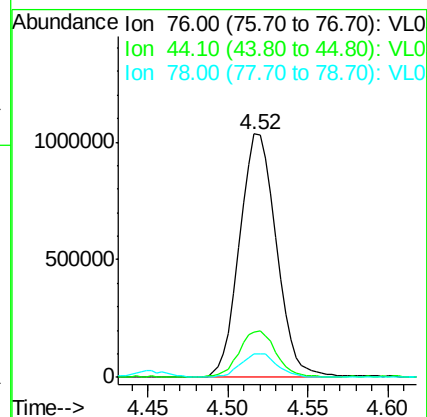
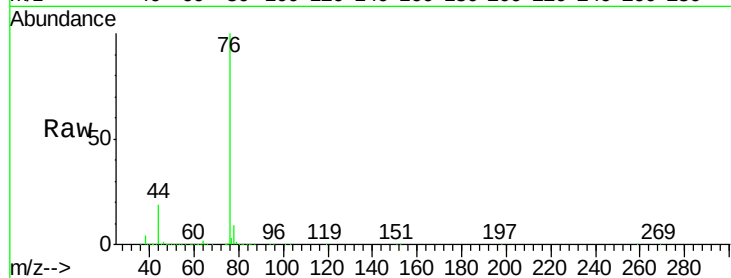
ClientSampleId :

VSTDCCC010

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 76    | Resp: | 1620304 |
| Ion      | Ratio | Lower | Upper   |
| 76       | 100   |       |         |
| 44       | 19.0  | 14.9  | 22.3    |
| 78       | 9.7   | 7.5   | 11.3    |

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#28

Methyl tert-Butyl Ether

Concen: 10.551 ppbv

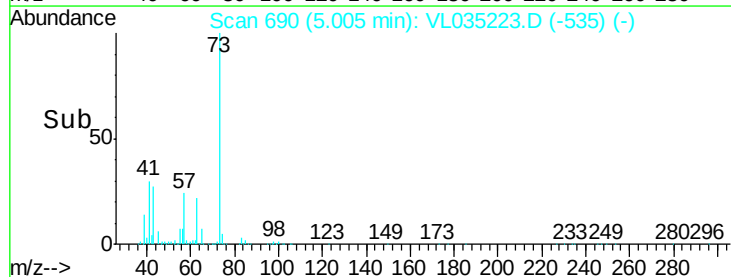
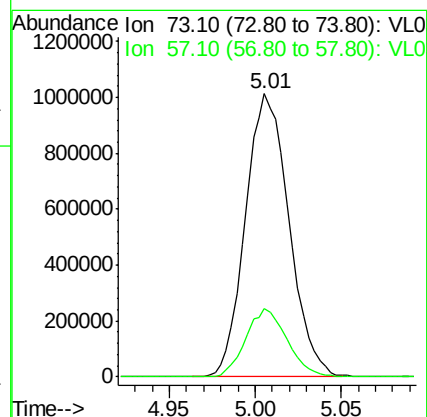
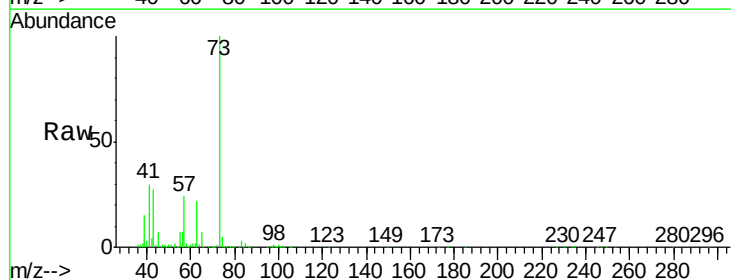
RT: 5.01 min Scan# 690

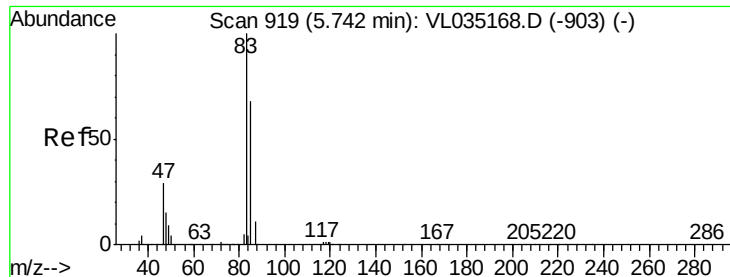
Delta R.T. -0.00 min

Lab File: VL035223.D

Acq: 23 Jul 2020 9:18

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 73    | Resp: | 1778142 |
| Ion      | Ratio | Lower | Upper   |
| 73       | 100   |       |         |
| 57       | 23.1  | 18.1  | 27.1    |





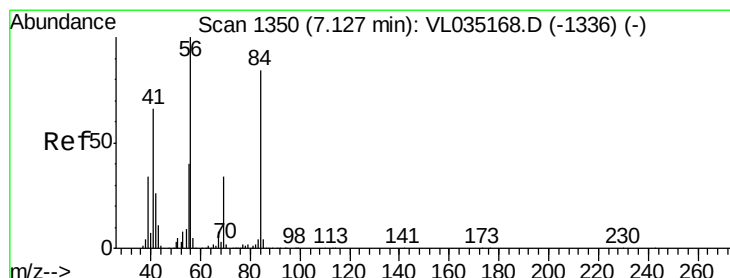
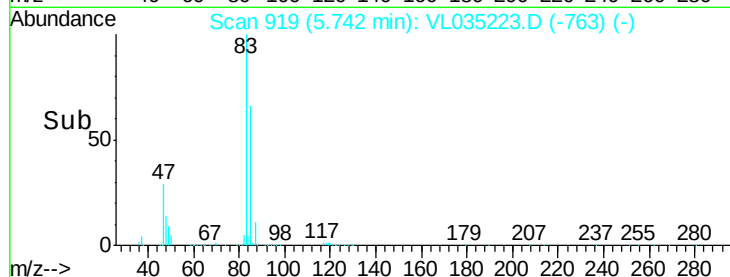
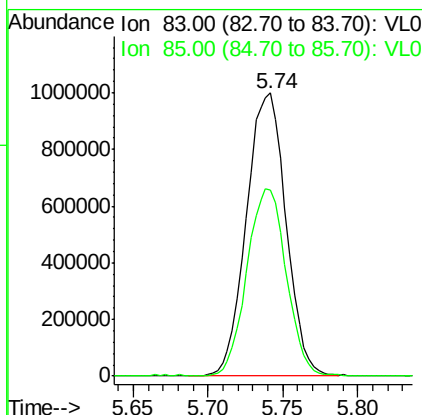
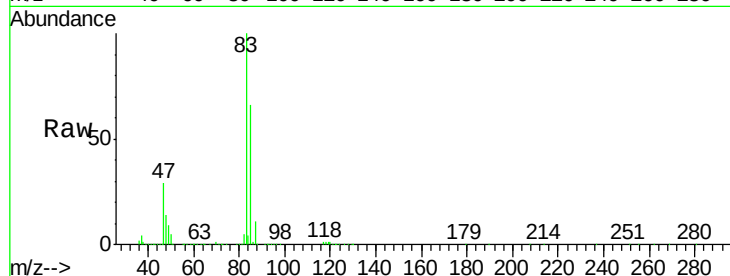
#29  
Chloroform  
Concen: 9.917 ppbv  
RT: 5.74 min Scan# 919  
Delta R.T. 0.00 min  
Lab File: VL035223.D  
Acq: 23 Jul 2020 9:18

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 83 Resp: 1839098  
Ion Ratio Lower Upper  
83 100  
85 65.9 54.3 81.5

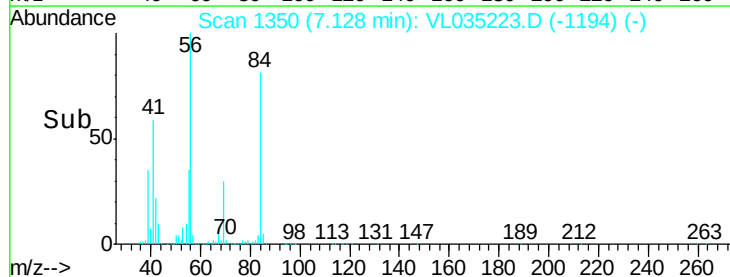
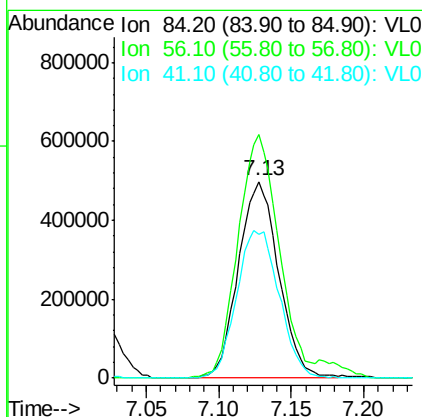
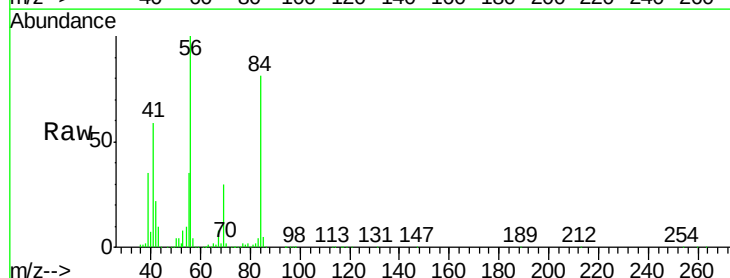
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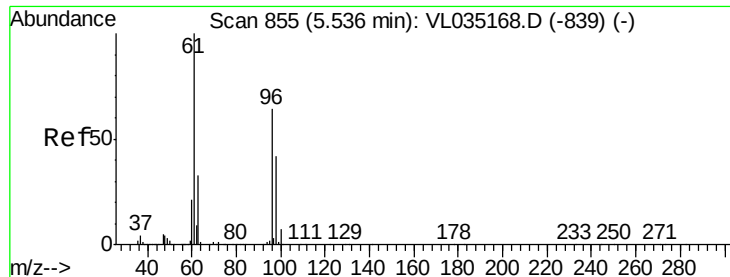
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#30  
Cyclohexane  
Concen: 11.708 ppbv  
RT: 7.13 min Scan# 1350  
Delta R.T. 0.00 min  
Lab File: VL035223.D  
Acq: 23 Jul 2020 9:18

Tgt Ion: 84 Resp: 958270  
Ion Ratio Lower Upper  
84 100  
56 133.1 105.6 158.4  
41 80.0 64.9 97.3





#31

cis-1,2-Dichloroethene

Concen: 10.790 ppbv

RT: 5.53 min Scan# 854

Delta R.T. -0.00 min

Lab File: VL035223.D

Acq: 23 Jul 2020 9:18

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 61 Resp: 1128927

Ion Ratio Lower Upper

61 100

96 61.8 51.3 76.9

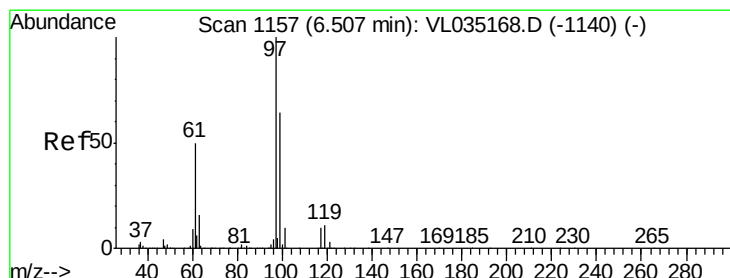
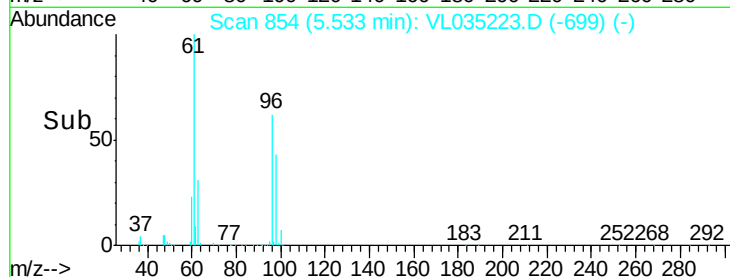
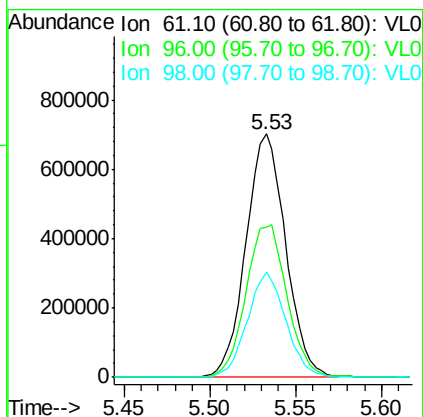
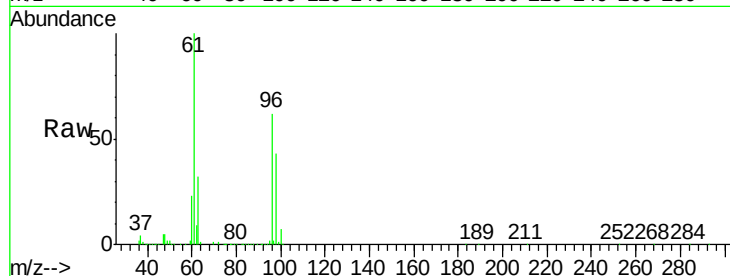
98 43.1 33.8 50.8

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#32

1,1,1-Trichloroethane

Concen: 9.868 ppbv

RT: 6.51 min Scan# 1157

Delta R.T. 0.00 min

Lab File: VL035223.D

Acq: 23 Jul 2020 9:18

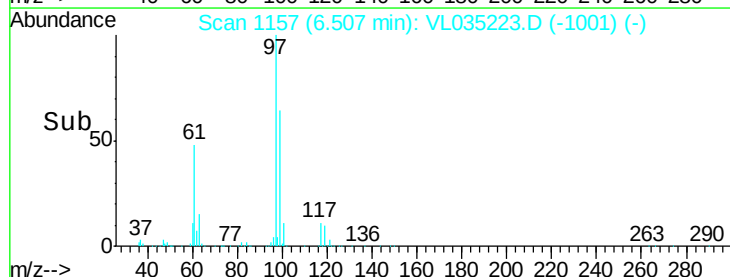
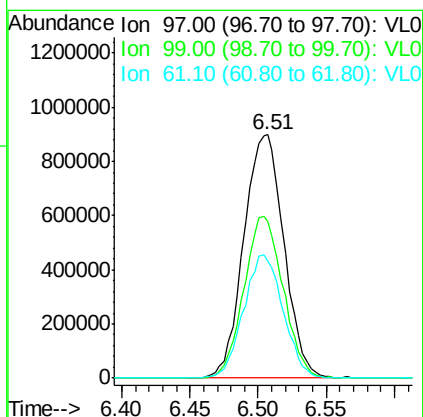
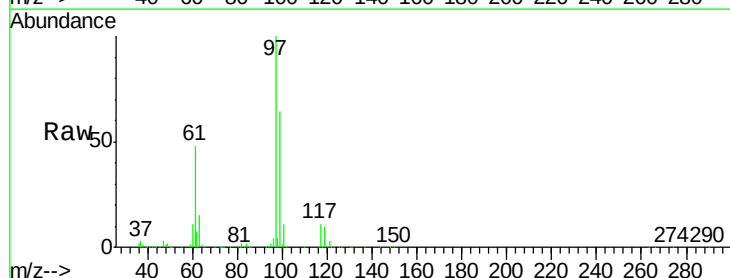
Tgt Ion: 97 Resp: 1834108

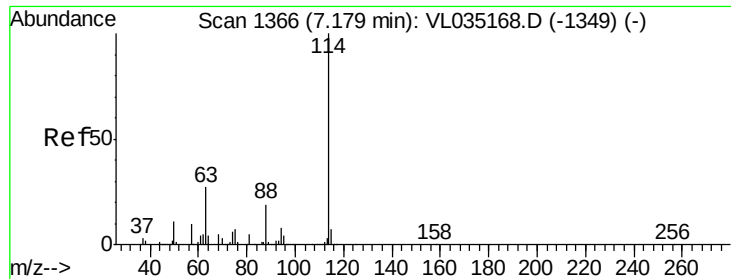
Ion Ratio Lower Upper

97 100

99 65.1 51.2 76.8

61 50.2 40.9 61.3





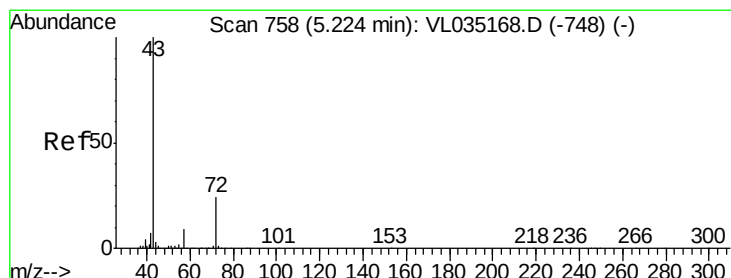
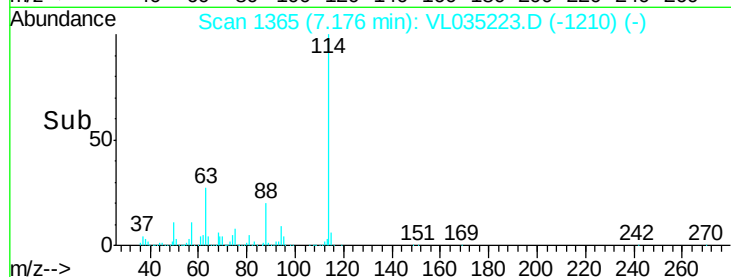
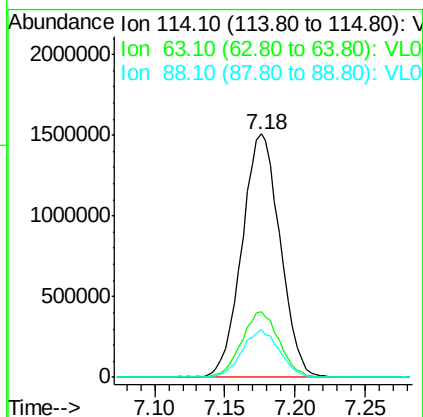
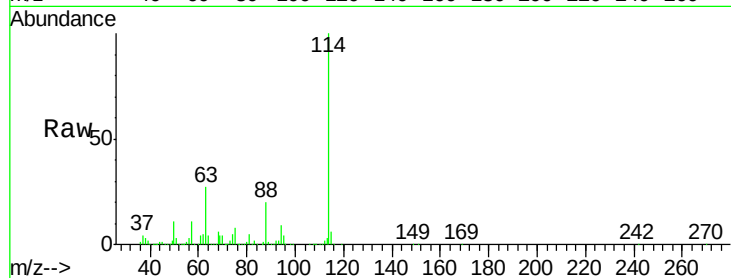
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.18 min Scan# 1365  
 Delta R.T. -0.00 min  
 Lab File: VL035223.D  
 Acq: 23 Jul 2020 9:18

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tgt Ion: 114 Resp: 2859067  
 Ion Ratio Lower Upper  
 114 100  
 63 27.1 22.0 33.0  
 88 19.1 15.4 23.0

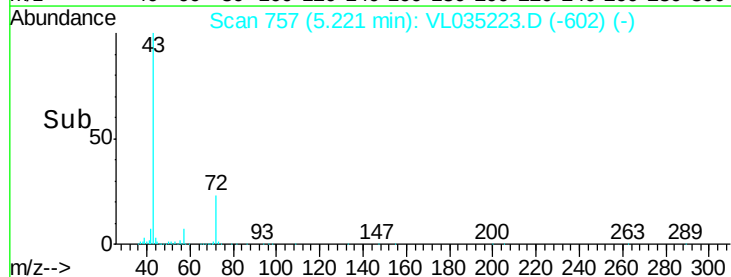
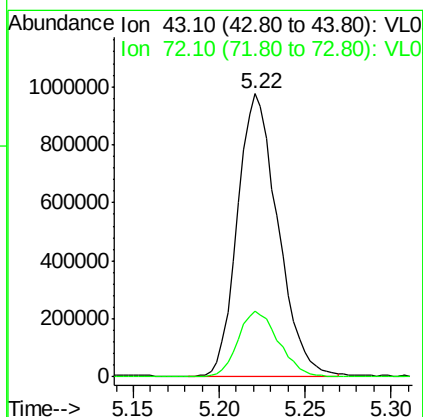
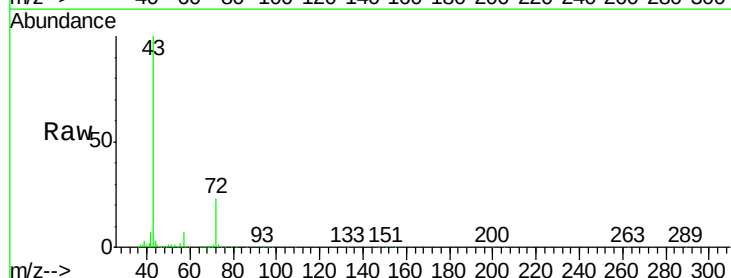
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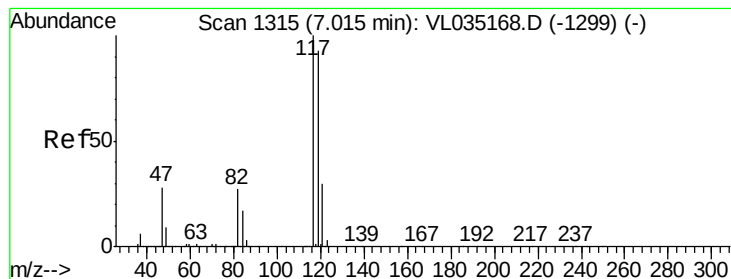
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#34  
 2-Butanone  
 Concen: 10.452 ppbv  
 RT: 5.22 min Scan# 757  
 Delta R.T. -0.00 min  
 Lab File: VL035223.D  
 Acq: 23 Jul 2020 9:18

Tgt Ion: 43 Resp: 1595048  
 Ion Ratio Lower Upper  
 43 100  
 72 23.5 18.6 28.0





#35

Carbon Tetrachloride

Concen: 10.149 ppbv

RT: 7.02 min Scan# 1316

Delta R.T. 0.00 min

Lab File: VL035223.D

Acq: 23 Jul 2020 9:18

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 117 Resp: 1883645

Ion Ratio Lower Upper

117 100

119 97.8 74.8 112.2

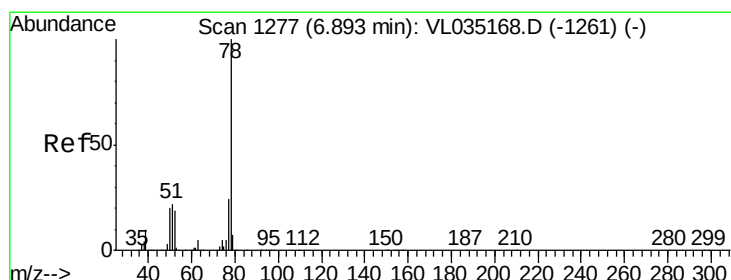
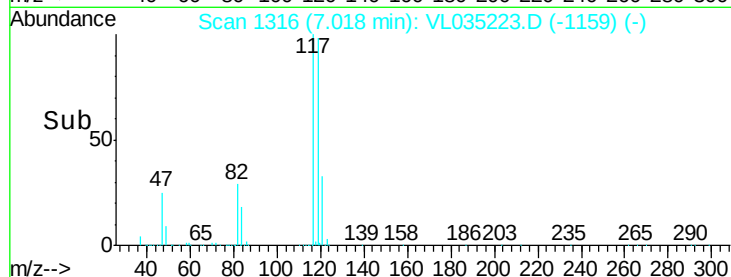
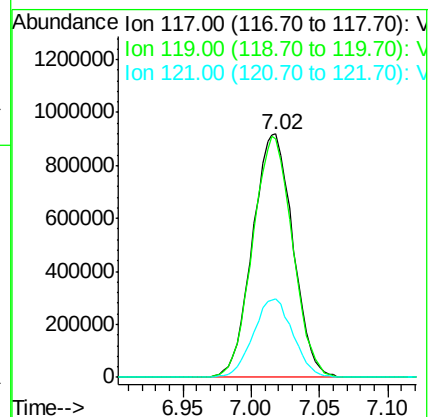
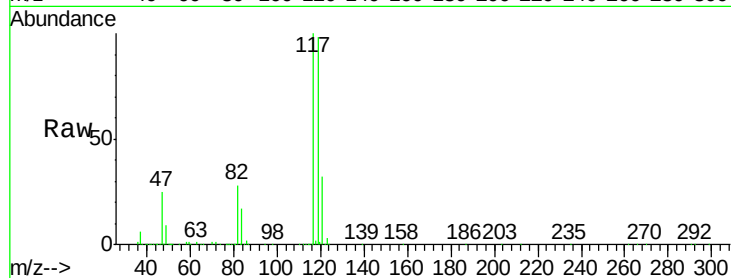
121 32.5 24.2 36.2

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#36

Benzene

Concen: 10.822 ppbv

RT: 6.89 min Scan# 1275

Delta R.T. -0.01 min

Lab File: VL035223.D

Acq: 23 Jul 2020 9:18

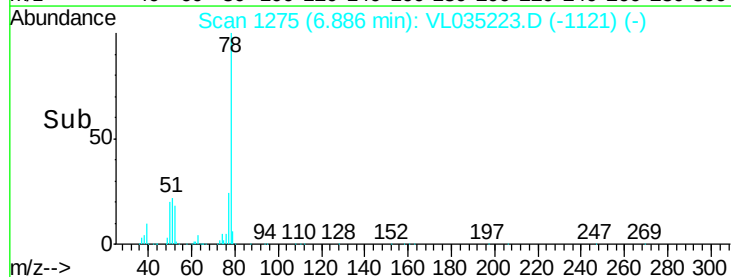
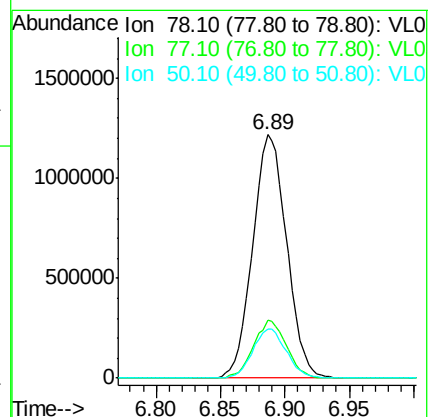
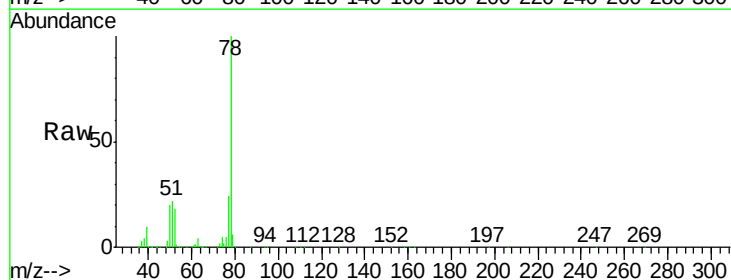
Tgt Ion: 78 Resp: 2239242

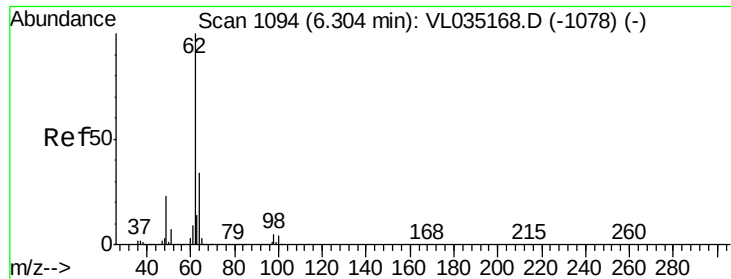
Ion Ratio Lower Upper

78 100

77 24.0 19.3 28.9

50 20.3 16.0 24.0





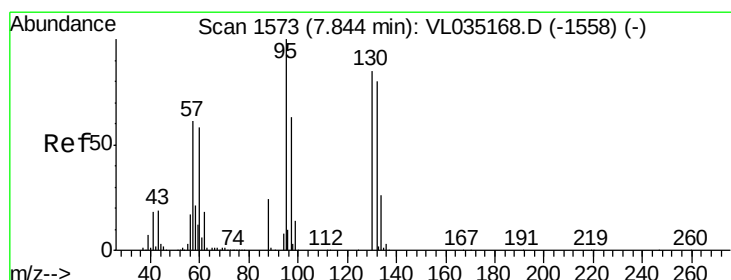
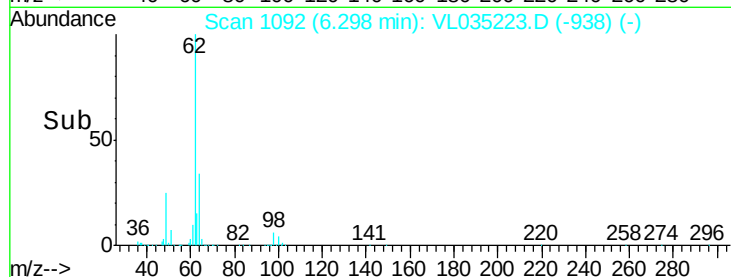
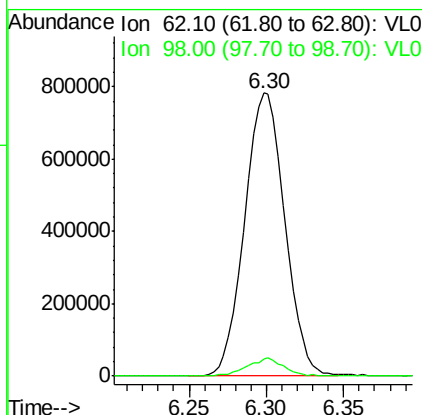
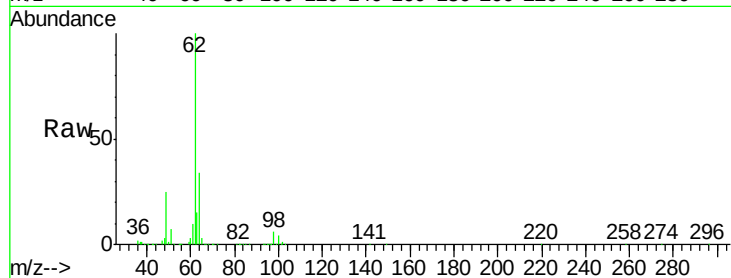
#37  
 1,2-Dichloroethane  
 Concen: 10.211 ppbv  
 RT: 6.30 min Scan# 1092  
 Delta R.T. -0.01 min  
 Lab File: VL035223.D  
 Acq: 23 Jul 2020 9:18

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tgt Ion: 62 Resp: 1417974  
 Ion Ratio Lower Upper  
 62 100  
 98 5.8 4.6 6.8

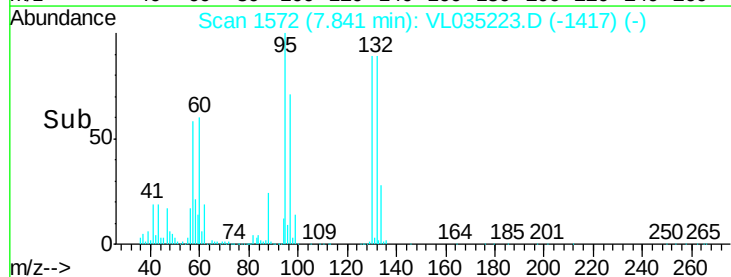
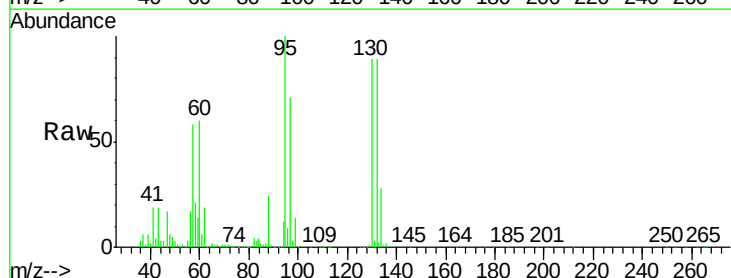
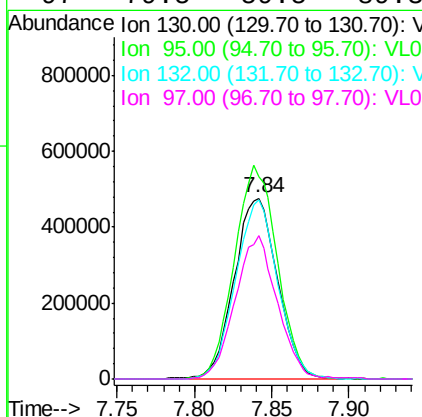
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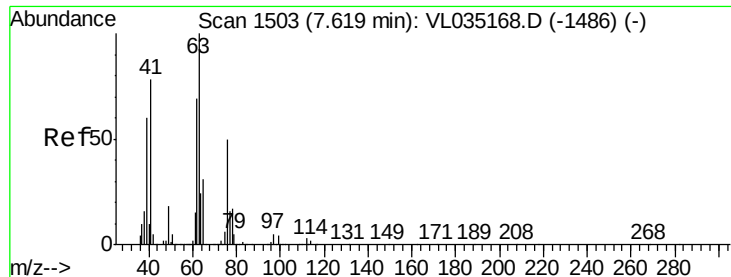
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#38  
 Trichloroethene  
 Concen: 10.913 ppbv  
 RT: 7.84 min Scan# 1572  
 Delta R.T. -0.00 min  
 Lab File: VL035223.D  
 Acq: 23 Jul 2020 9:18

Tgt Ion: 130 Resp: 920118  
 Ion Ratio Lower Upper  
 130 100  
 95 111.7 93.8 140.8  
 132 99.7 75.0 112.4  
 97 79.5 59.5 89.3





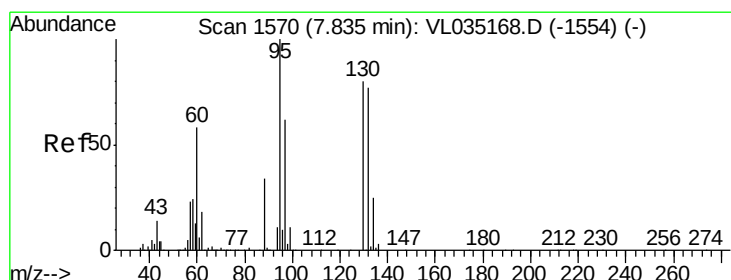
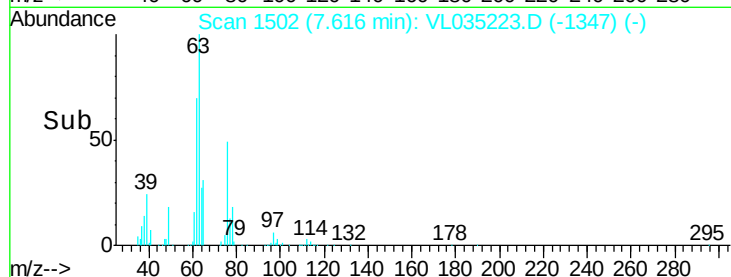
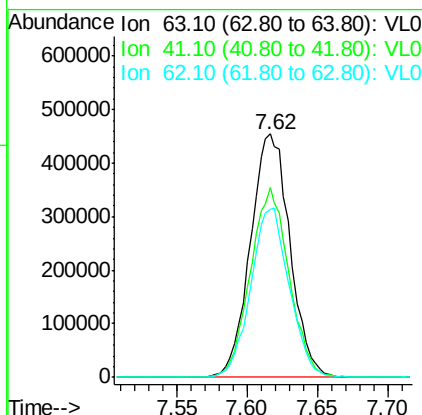
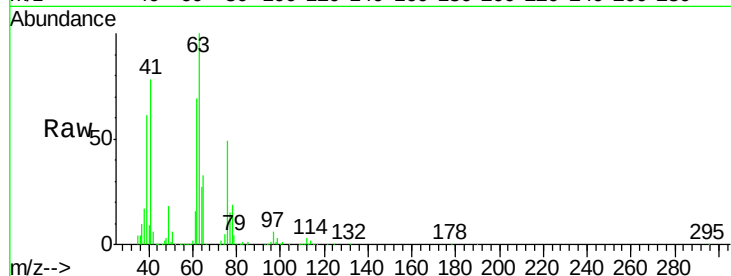
#39  
 1,2-Dichloropropane  
 Concen: 10.816 ppbv  
 RT: 7.62 min Scan# 1502  
 Delta R.T. -0.00 min  
 Lab File: VL035223.D  
 Acq: 23 Jul 2020 9:18

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 41      | 77.7  | 62.6  | 94.0  |
| 62      | 69.0  | 55.0  | 82.6  |

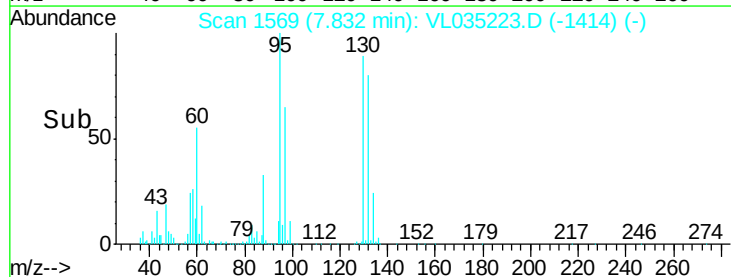
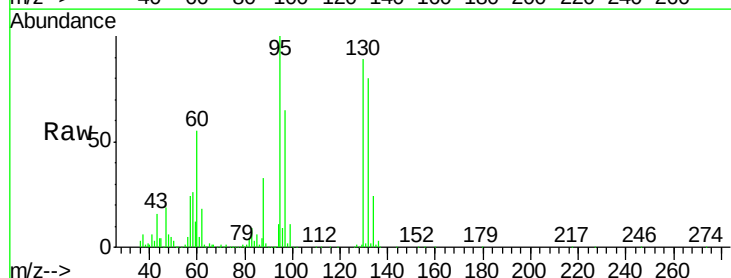
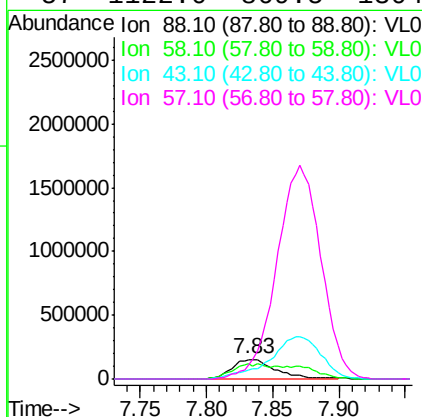
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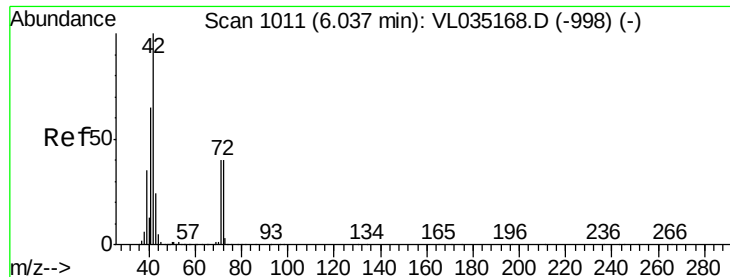


#40  
 1,4-Dioxane  
 Concen: 10.678 ppbv  
 RT: 7.83 min Scan# 1569  
 Delta R.T. -0.00 min  
 Lab File: VL035223.D  
 Acq: 23 Jul 2020 9:18

| Tgt Ion | Ratio  | Lower | Upper  |
|---------|--------|-------|--------|
| 88      | 100    |       |        |
| 58      | 129.3  | 100.2 | 150.4  |
| 43      | 255.1  | 199.8 | 299.8  |
| 57      | 1122.0 | 869.5 | 1304.3 |







#41

Tetrahydrofuran

Concen: 11.245 ppbv

RT: 6.03 min Scan# 1010

Delta R.T. -0.00 min

Lab File: VL035223.D

Acq: 23 Jul 2020 9:18

Instrument :

MSVOA\_L

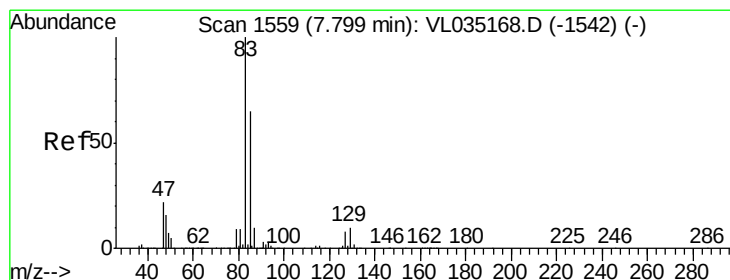
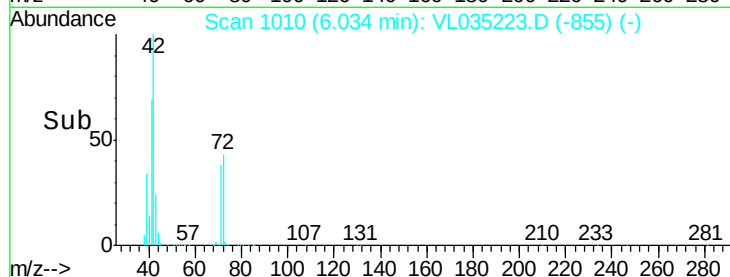
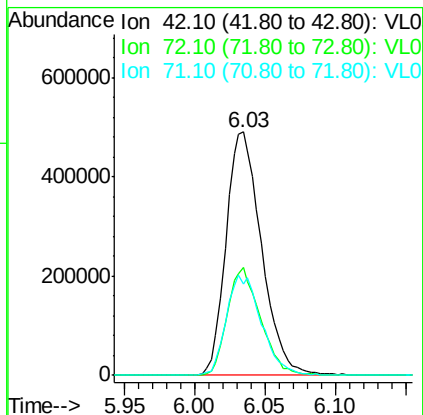
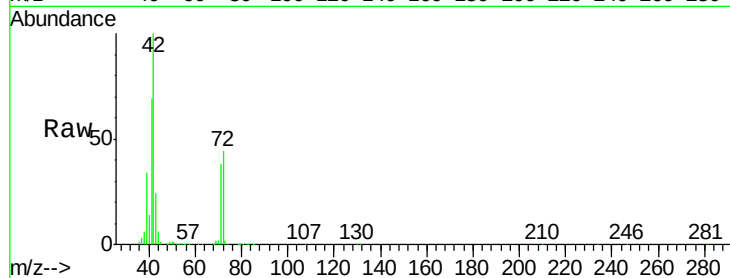
ClientSampleId :

VSTDCCC010

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 42   | Resp: | 858657 |
| Ion Ratio |      | Lower | Upper  |
| 42        | 100  |       |        |
| 72        | 41.7 | 33.4  | 50.2   |
| 71        | 41.1 | 31.9  | 47.9   |

Manual Integrations  
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#42

Bromodichloromethane

Concen: 10.588 ppbv

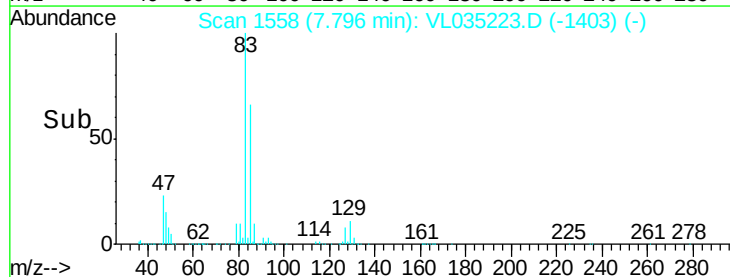
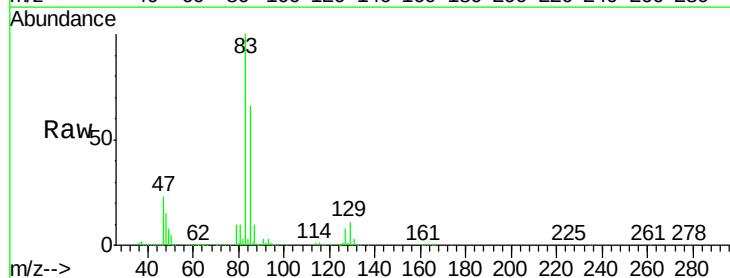
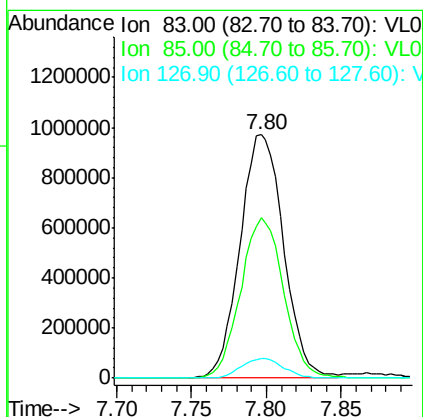
RT: 7.80 min Scan# 1558

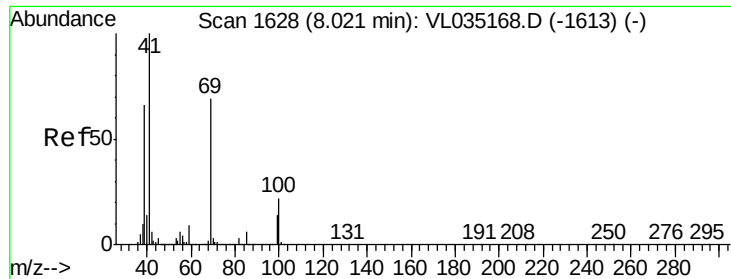
Delta R.T. -0.00 min

Lab File: VL035223.D

Acq: 23 Jul 2020 9:18

|           |      |       |         |
|-----------|------|-------|---------|
| Tgt Ion:  | 83   | Resp: | 1963463 |
| Ion Ratio |      | Lower | Upper   |
| 83        | 100  |       |         |
| 85        | 66.0 | 52.2  | 78.4    |
| 127       | 8.3  | 6.3   | 9.5     |





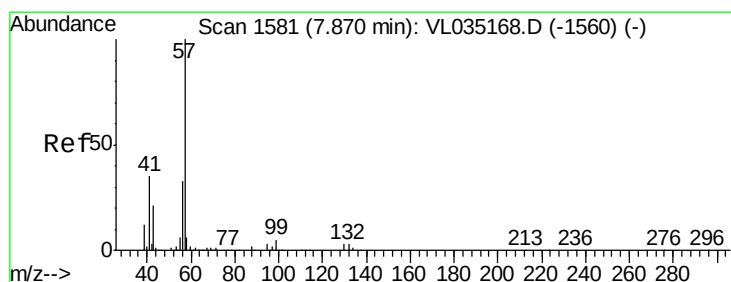
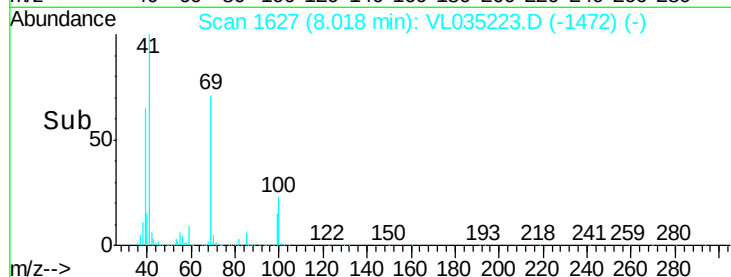
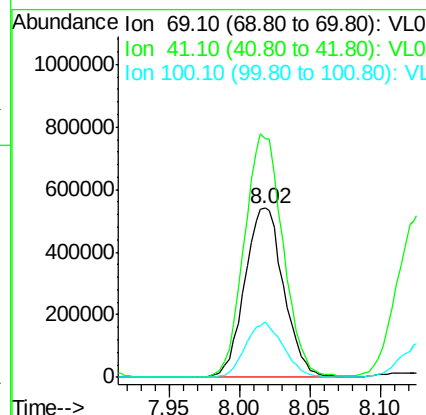
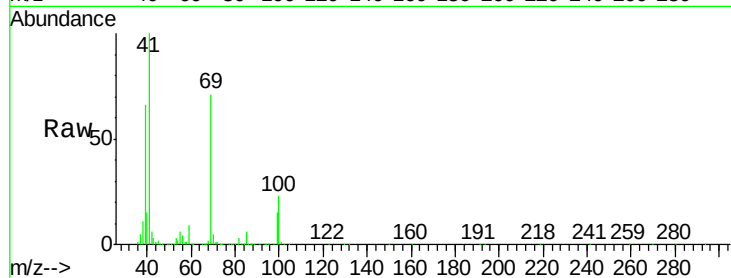
#43  
Methyl Methacrylate  
Concen: 11.942 ppbv  
RT: 8.02 min Scan# 1627  
Delta R.T. -0.00 min  
Lab File: VL035223.D  
Acq: 23 Jul 2020 9:18

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 69 Resp: 1044571  
Ion Ratio Lower Upper  
69 100  
41 143.0 116.3 174.5  
100 31.7 25.6 38.4

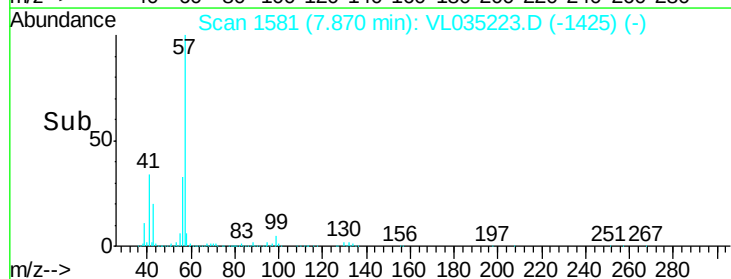
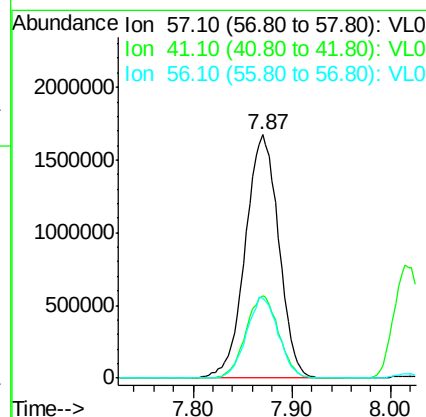
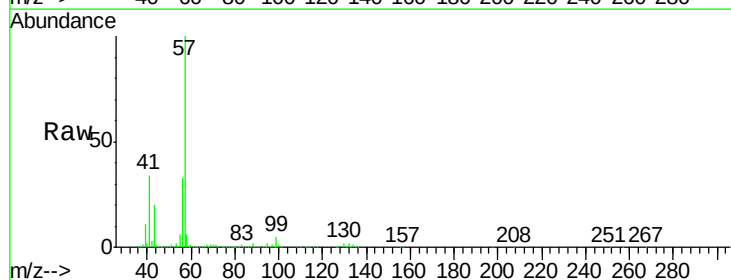
Manual Integrations  
APPROVED

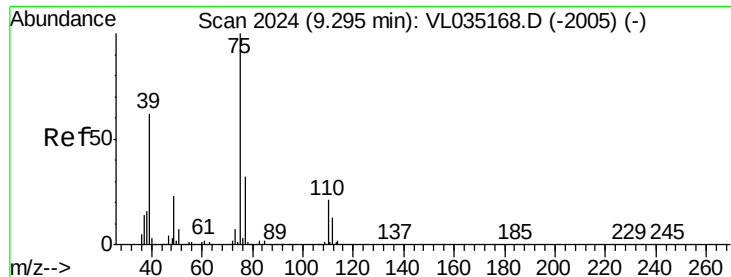
MMDadoda  
7/27/2020 12:29:27 PM



#44  
2,2,4-Trimethylpentane  
Concen: 10.975 ppbv  
RT: 7.87 min Scan# 1581  
Delta R.T. 0.00 min  
Lab File: VL035223.D  
Acq: 23 Jul 2020 9:18

Tgt Ion: 57 Resp: 3920215  
Ion Ratio Lower Upper  
57 100  
41 33.3 27.0 40.6  
56 31.7 25.5 38.3





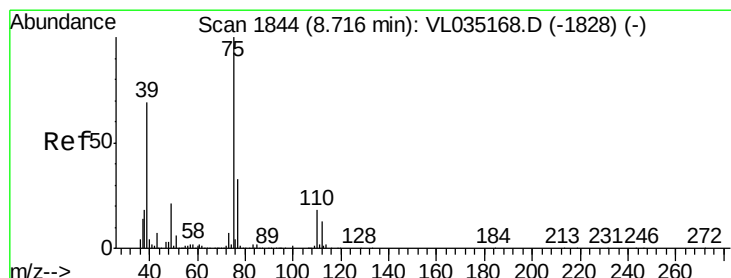
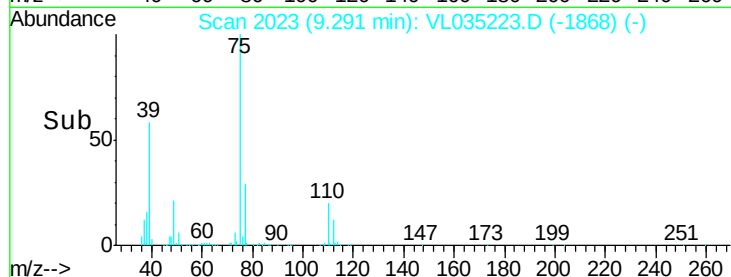
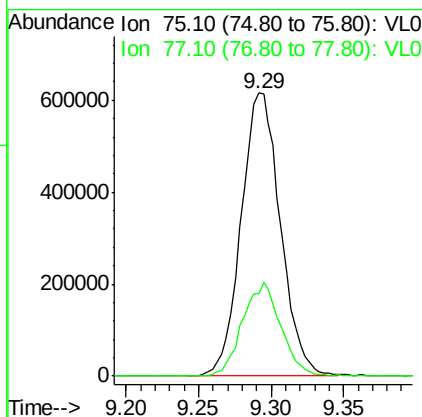
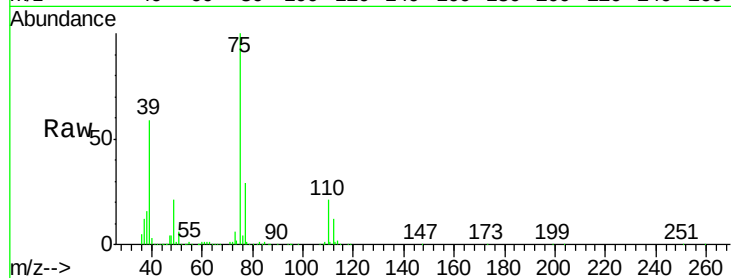
#45  
t-1,3-Dichloropropene  
Concen: 12.583 ppbv  
RT: 9.29 min Scan# 2023  
Delta R.T. -0.00 min  
Lab File: VL035223.D  
Acq: 23 Jul 2020 9:18

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 75 Resp: 1156349  
Ion Ratio Lower Upper  
75 100  
77 29.3 25.8 38.8

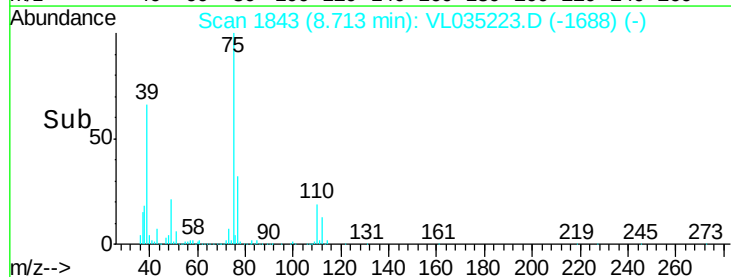
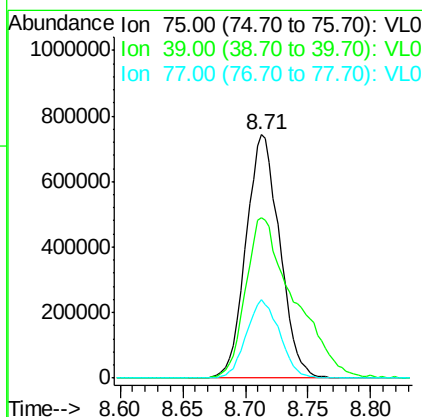
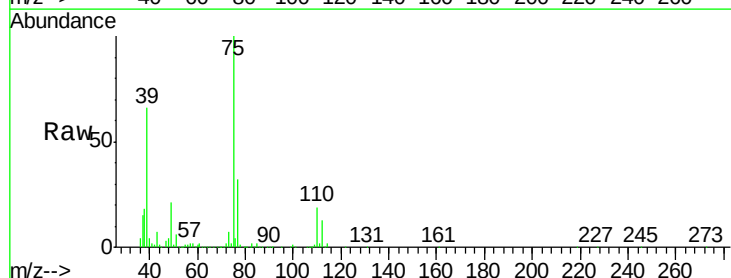
Manual Integrations  
APPROVED

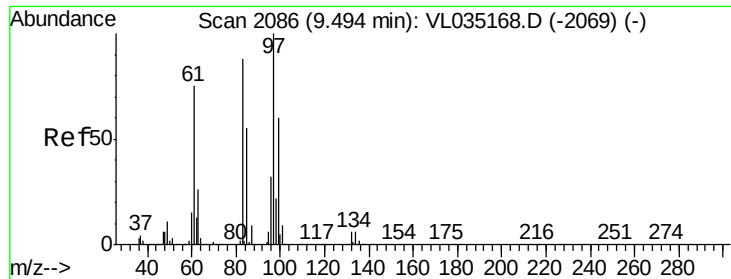
MMDadoda  
7/27/2020 12:29:27 PM



#46  
cis-1,3-Dichloropropene  
Concen: 12.735 ppbv  
RT: 8.71 min Scan# 1843  
Delta R.T. -0.00 min  
Lab File: VL035223.D  
Acq: 23 Jul 2020 9:18

Tgt Ion: 75 Resp: 1387434  
Ion Ratio Lower Upper  
75 100  
39 65.9 55.2 82.8  
77 32.2 26.0 39.0





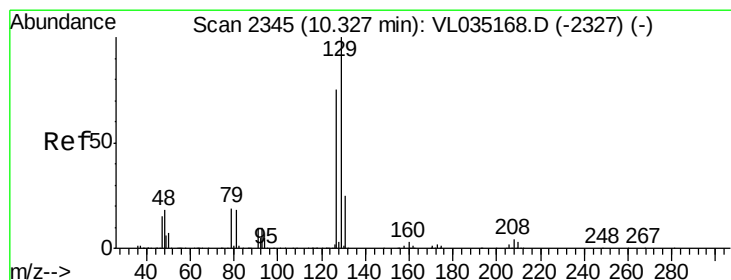
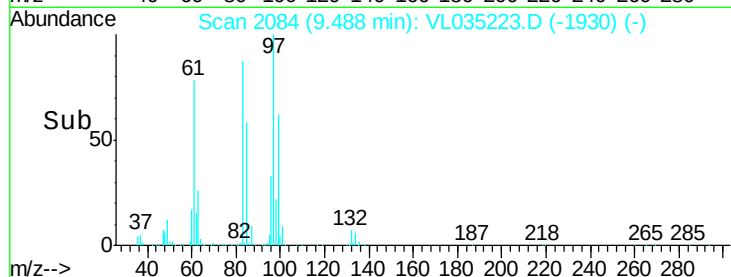
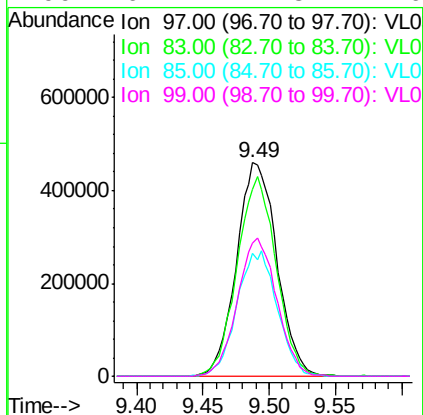
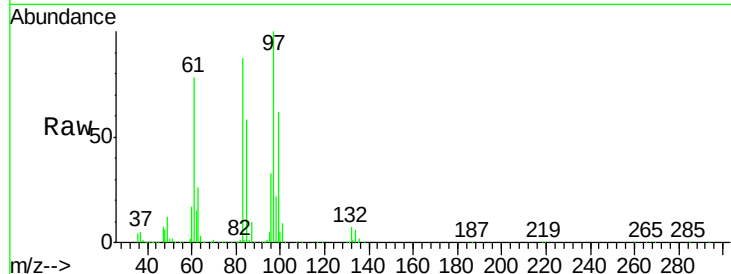
#47  
 1,1,2-Trichloroethane  
 Concen: 10.783 ppbv  
 RT: 9.49 min Scan# 2084  
 Delta R.T. -0.01 min  
 Lab File: VL035223.D  
 Acq: 23 Jul 2020 9:18

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 83      | 87.2  | 70.3  | 105.5 |
| 85      | 57.8  | 44.3  | 66.5  |
| 99      | 62.4  | 47.8  | 71.6  |

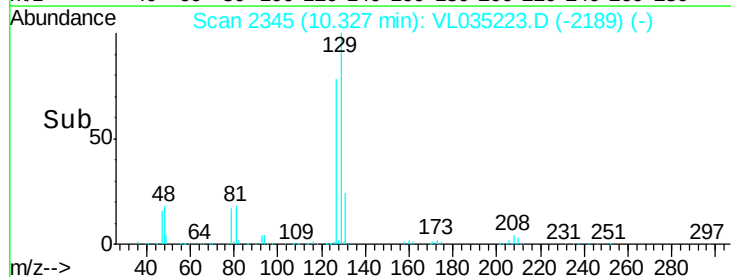
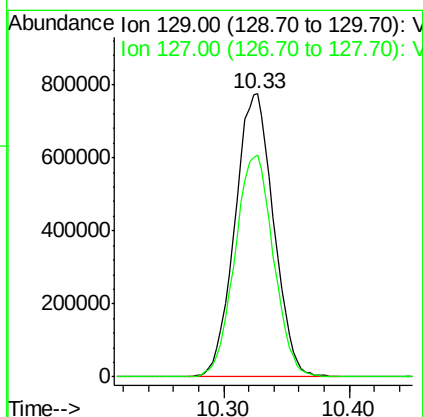
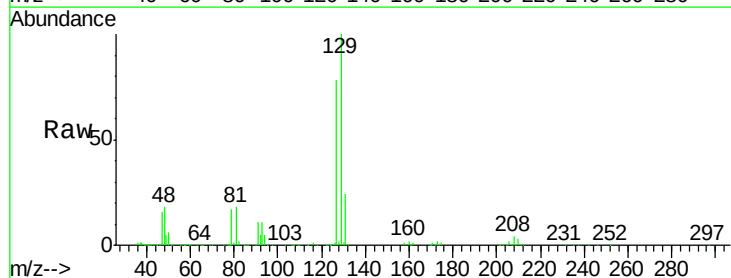
Manual Integrations  
 APPROVED

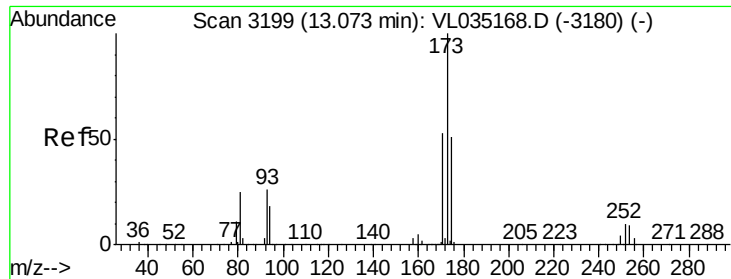
MMDadoda  
 7/27/2020 12:29:27 PM



#48  
 Dibromochloromethane  
 Concen: 11.333 ppbv  
 RT: 10.33 min Scan# 2345  
 Delta R.T. 0.00 min  
 Lab File: VL035223.D  
 Acq: 23 Jul 2020 9:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 129     | 100   |       |       |
| 127     | 78.1  | 38.8  | 116.3 |





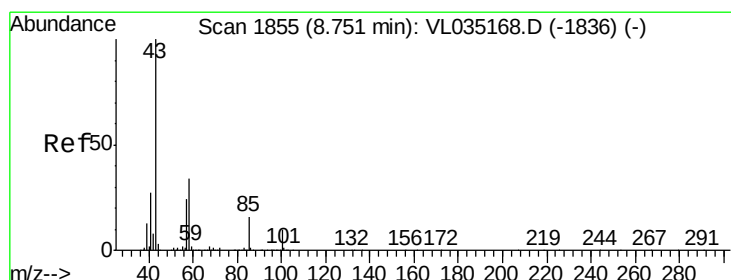
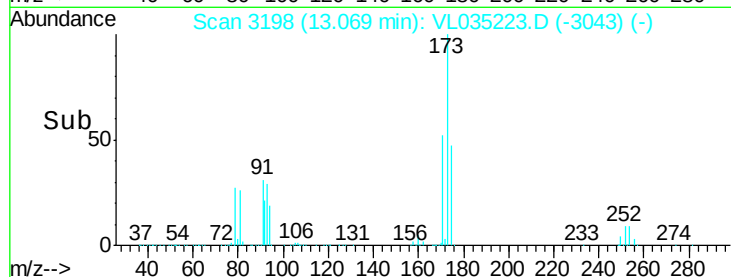
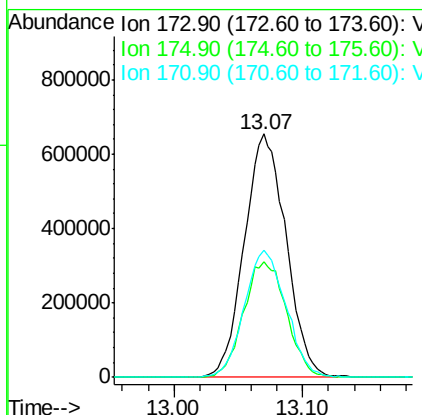
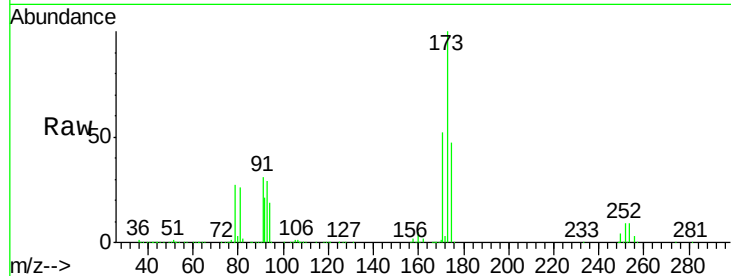
#49  
Bromoform  
Concen: 11.483 ppbv  
RT: 13.07 min Scan# 3198  
Delta R.T. -0.00 min  
Lab File: VL035223.D  
Acq: 23 Jul 2020 9:18

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 173 Resp: 1472182  
Ion Ratio Lower Upper  
173 100  
175 49.0 39.7 59.5  
171 52.2 41.6 62.4

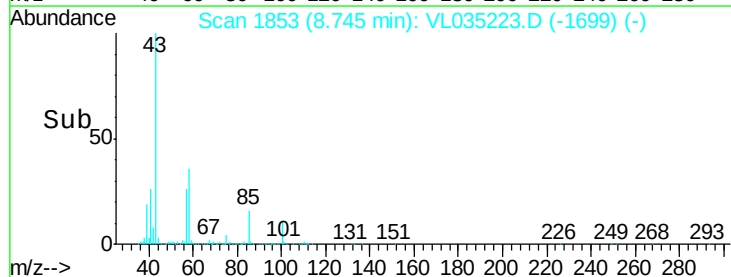
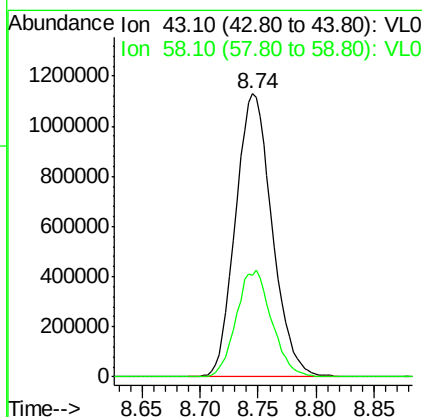
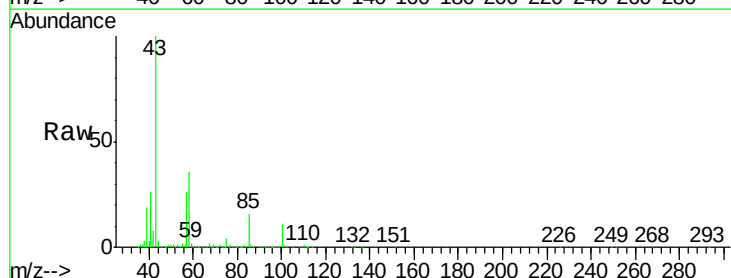
Manual Integrations  
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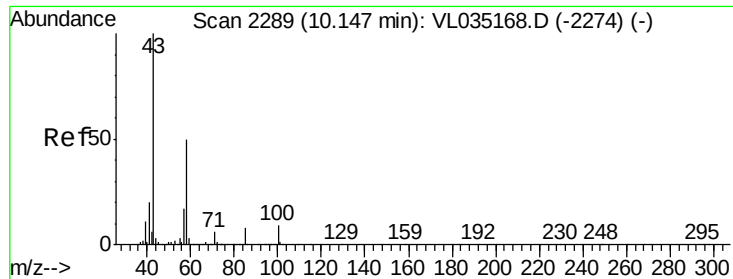
MMDadoda  
7/27/2020 12:29:27 PM



#50  
4-Methyl-2-Pentanone  
Concen: 11.267 ppbv  
RT: 8.74 min Scan# 1853  
Delta R.T. -0.01 min  
Lab File: VL035223.D  
Acq: 23 Jul 2020 9:18

Tgt Ion: 43 Resp: 2467657  
Ion Ratio Lower Upper  
43 100  
58 36.7 29.4 44.2





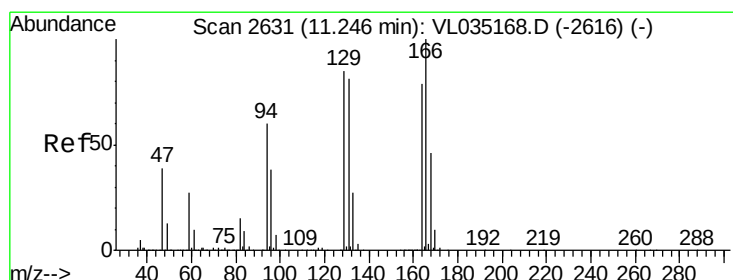
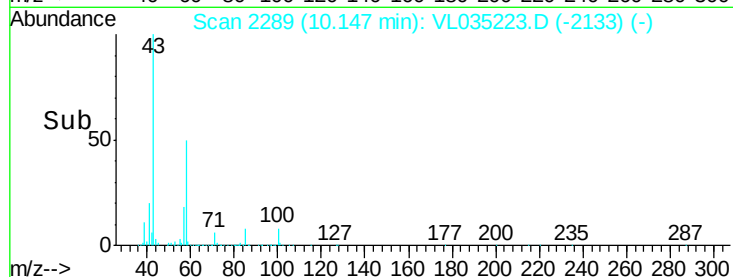
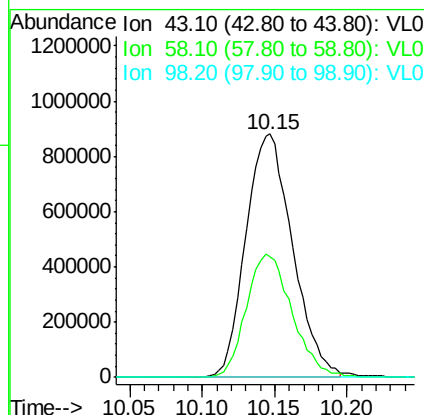
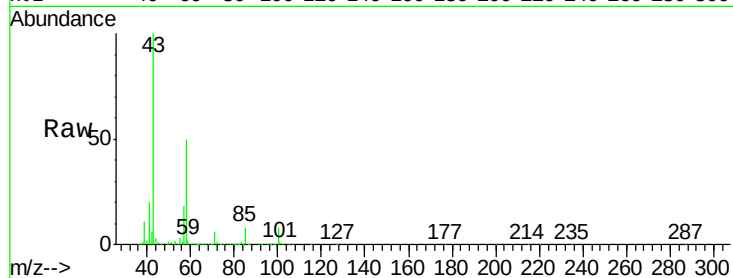
#51  
2-Hexanone  
Concen: 11.832 ppbv  
RT: 10.15 min Scan# 2289  
Delta R.T. 0.00 min  
Lab File: VL035223.D  
Acq: 23 Jul 2020 9:18

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 43 Resp: 1975934  
Ion Ratio Lower Upper  
43 100  
58 49.7 39.4 59.0  
98 0.5 0.3 0.5#

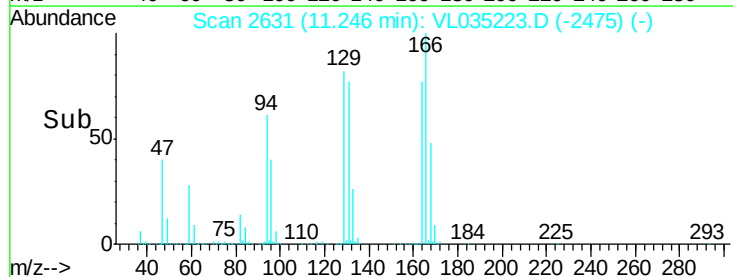
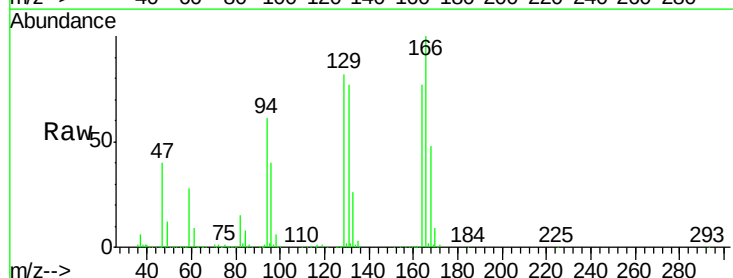
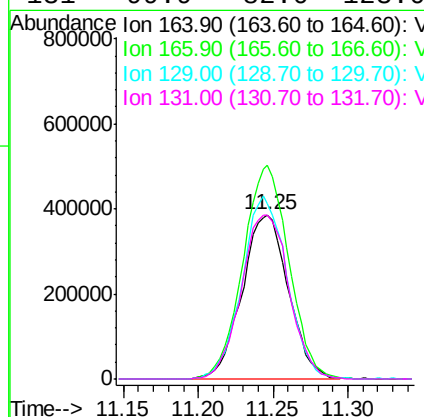
Manual Integrations  
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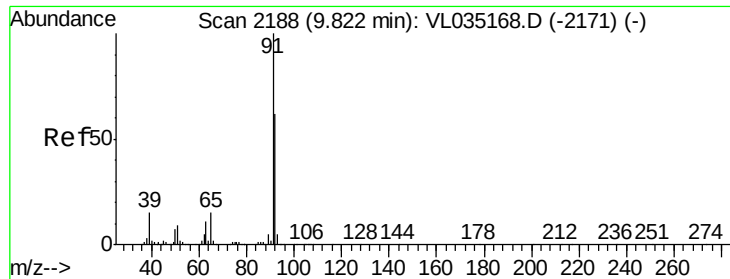
MMDadoda  
7/27/2020 12:29:27 PM



#52  
Tetrachloroethene  
Concen: 10.718 ppbv  
RT: 11.25 min Scan# 2631  
Delta R.T. 0.00 min  
Lab File: VL035223.D  
Acq: 23 Jul 2020 9:18

Tgt Ion: 164 Resp: 828354  
Ion Ratio Lower Upper  
164 100  
166 130.1 100.7 151.1  
129 106.2 85.8 128.6  
131 99.9 82.0 123.0





#53

Toluene

Concen: 12.173 ppbv

RT: 9.82 min Scan# 2187

Delta R.T. -0.00 min

Lab File: VL035223.D

Acq: 23 Jul 2020 9:18

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 91 Resp: 2658433

Ion Ratio Lower Upper

91 100

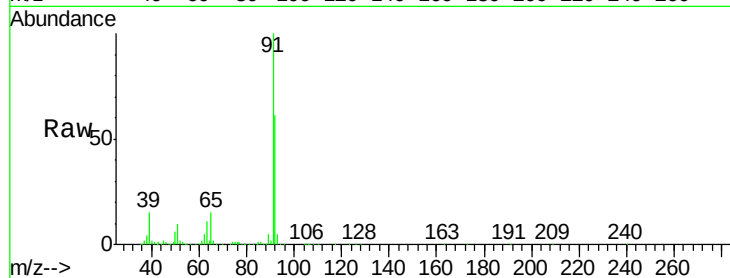
92 59.9 48.4 72.6

Manual Integrations

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

1500000

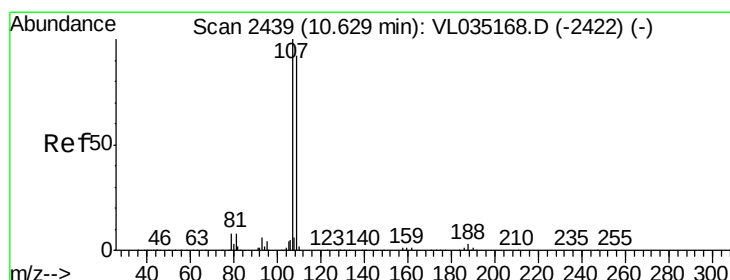
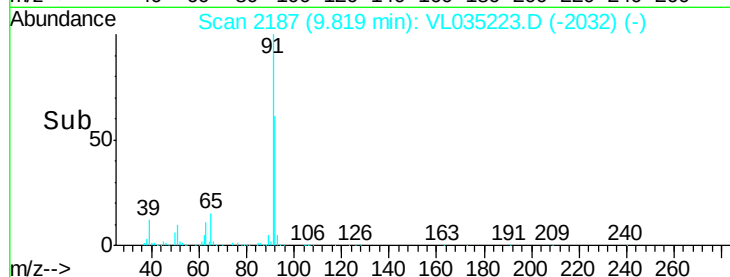
1000000

500000

0

9.75 9.80 9.85 9.90

Time-->



#54

1,2-Dibromoethane

Concen: 11.113 ppbv

RT: 10.63 min Scan# 2440

Delta R.T. 0.00 min

Lab File: VL035223.D

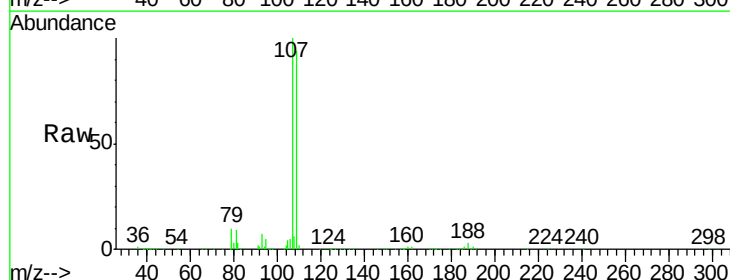
Acq: 23 Jul 2020 9:18

Tgt Ion: 107 Resp: 1485460

Ion Ratio Lower Upper

107 100

109 94.0 74.0 111.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

800000

600000

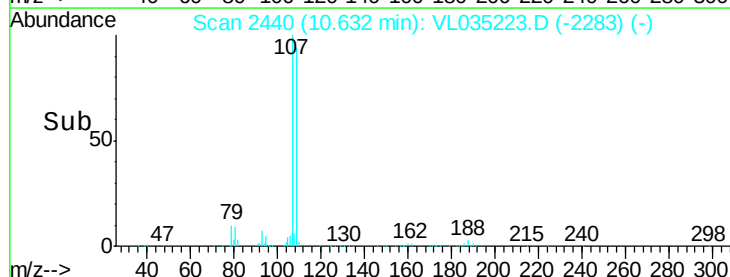
400000

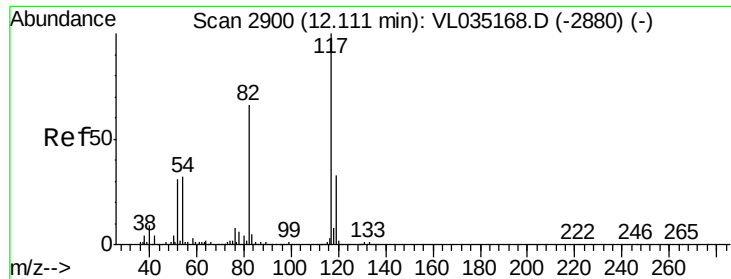
200000

0

10.60 10.63 10.67 10.70

Time-->





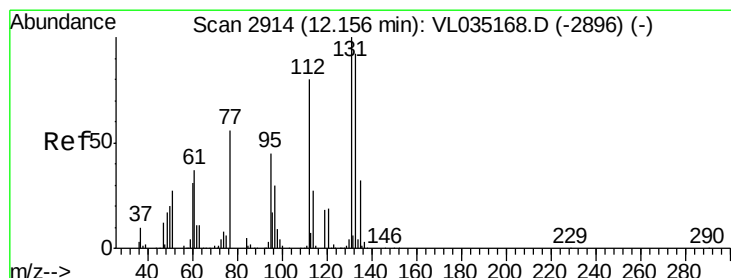
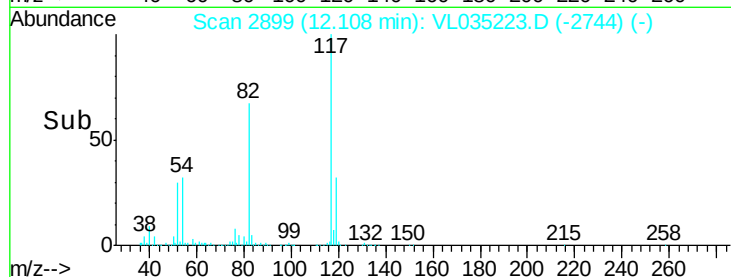
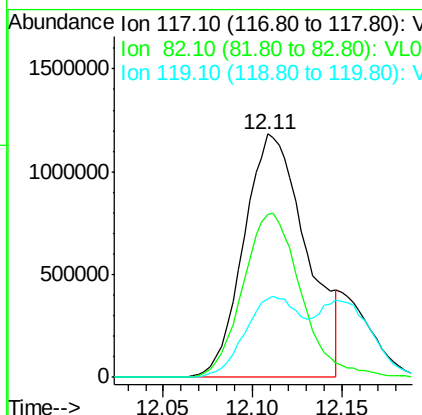
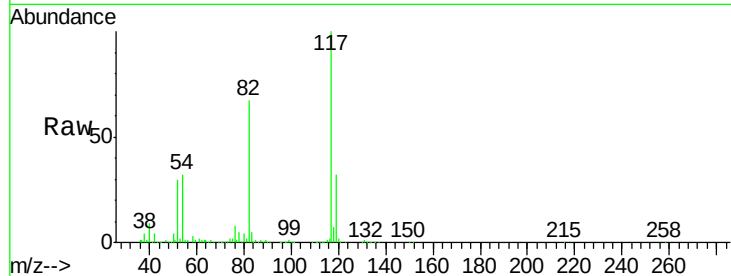
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv m  
RT: 12.11 min Scan# 2899  
Delta R.T. -0.00 min  
Lab File: VL035223.D  
Acq: 23 Jul 2020 9:18

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion:117 Resp: 2901703  
Ion Ratio Lower Upper  
117 100  
82 62.9 52.3 78.5  
119 27.5 24.9 37.3

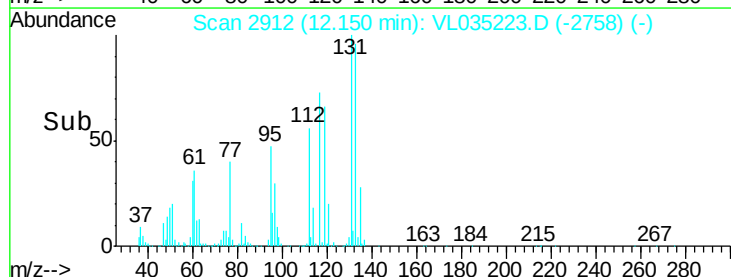
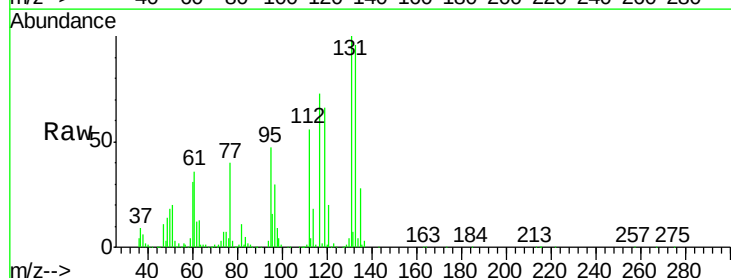
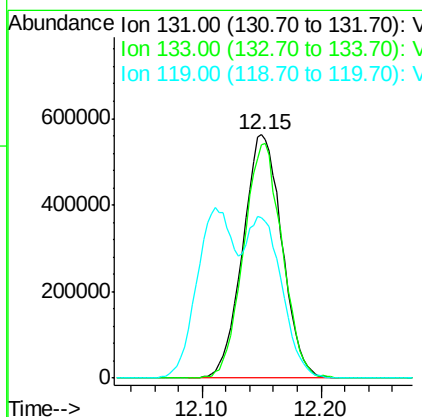
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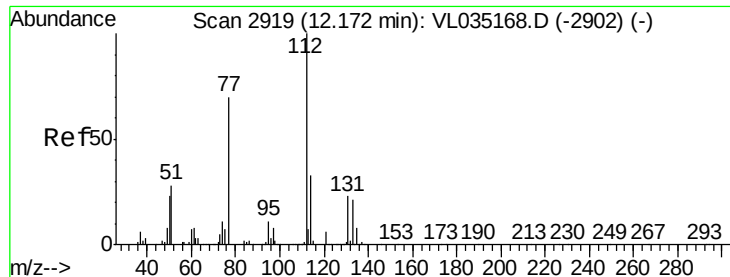


#56  
1,1,1,2-Tetrachloroethane  
Concen: 9.973 ppbv  
RT: 12.15 min Scan# 2912  
Delta R.T. -0.01 min  
Lab File: VL035223.D  
Acq: 23 Jul 2020 9:18

Tgt Ion:131 Resp: 1282140  
Ion Ratio Lower Upper  
131 100  
133 94.9 75.4 113.2  
119 67.5 42.4 63.6#







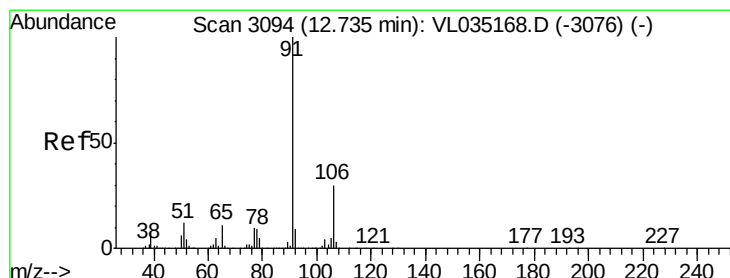
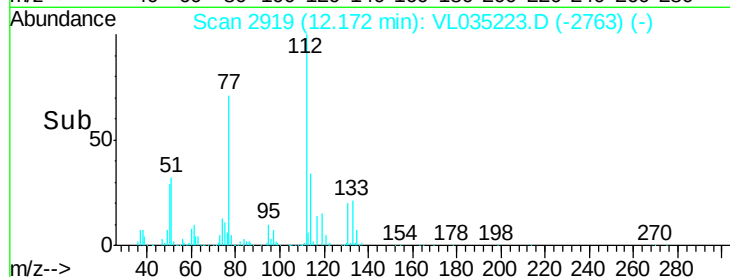
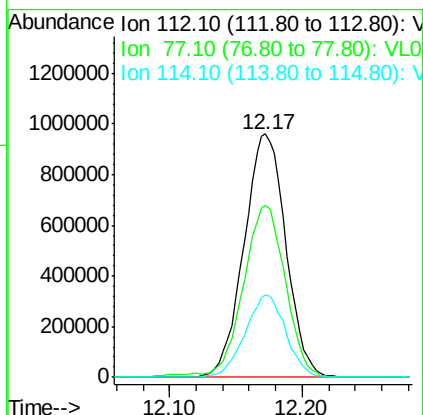
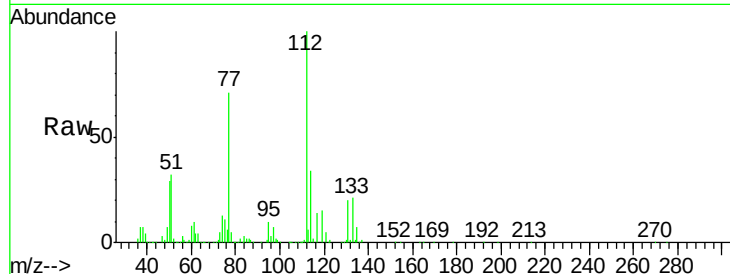
#57  
Chlorobenzene  
Concen: 9.825 ppbv  
RT: 12.17 min Scan# 2919  
Delta R.T. 0.00 min  
Lab File: VL035223.D  
Acq: 23 Jul 2020 9:18

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 112 Resp: 2101176  
Ion Ratio Lower Upper  
112 100  
77 70.6 57.0 85.4  
114 33.7 30.2 37.0

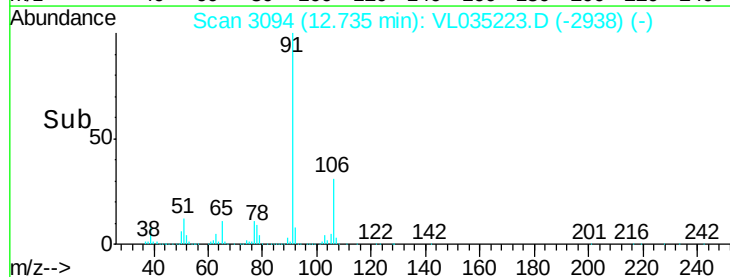
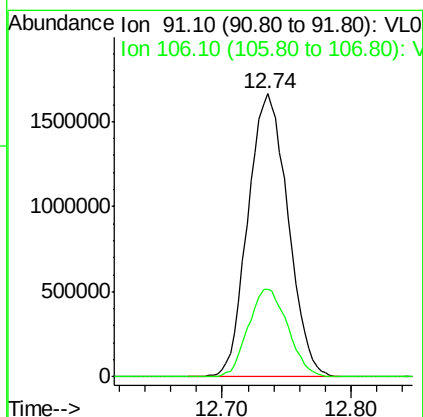
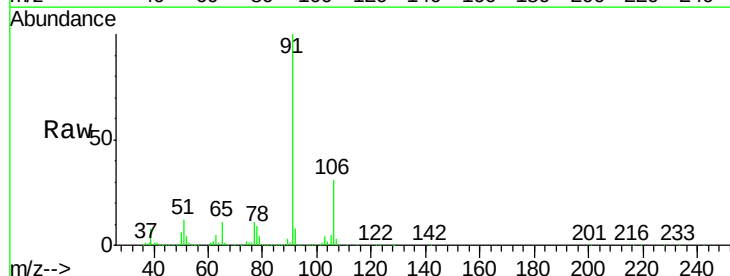
Manual Integrations  
APPROVED

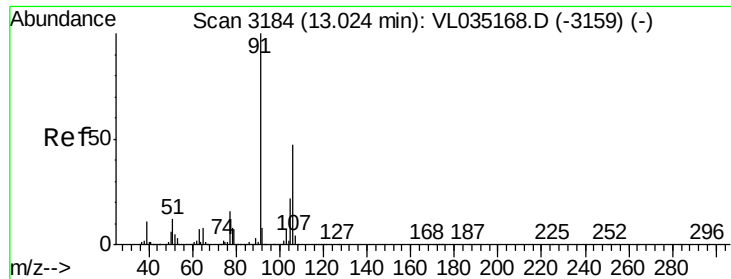
MMDadoda  
7/27/2020 12:29:27 PM



#58  
Ethyl Benzene  
Concen: 11.231 ppbv  
RT: 12.74 min Scan# 3094  
Delta R.T. 0.00 min  
Lab File: VL035223.D  
Acq: 23 Jul 2020 9:18

Tgt Ion: 91 Resp: 3602043  
Ion Ratio Lower Upper  
91 100  
106 30.8 24.2 36.2





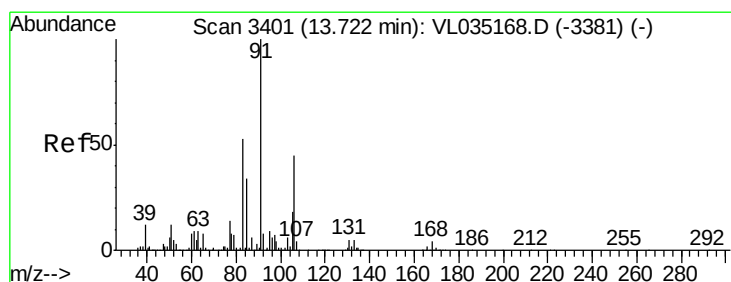
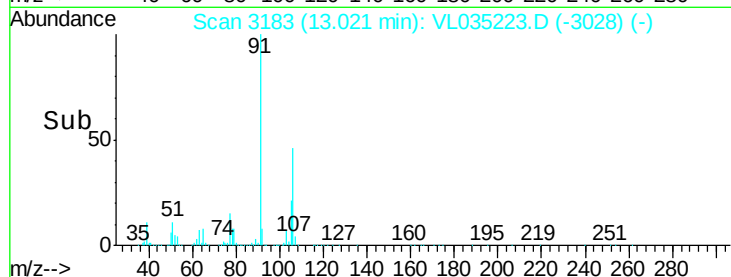
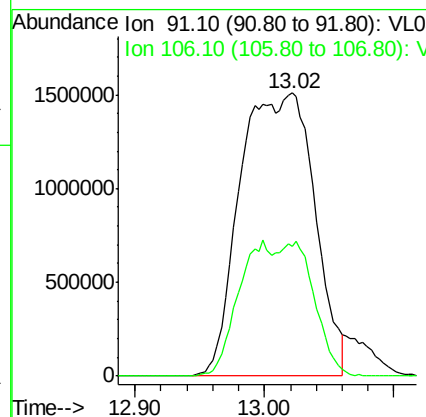
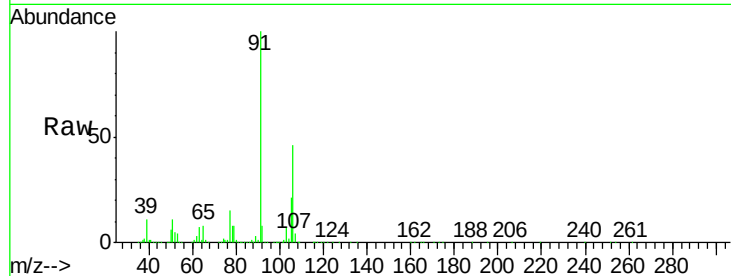
#59  
m/p-Xylene  
Concen: 21.018 ppbv m  
RT: 13.02 min Scan# 3183  
Delta R.T. -0.00 min  
Lab File: VL035223.D  
Acq: 23 Jul 2020 9:18

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 91 Resp: 6007846  
Ion Ratio Lower Upper  
91 100  
106 0.0 36.2 54.2#

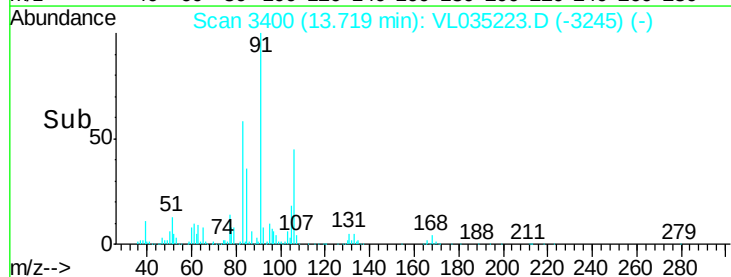
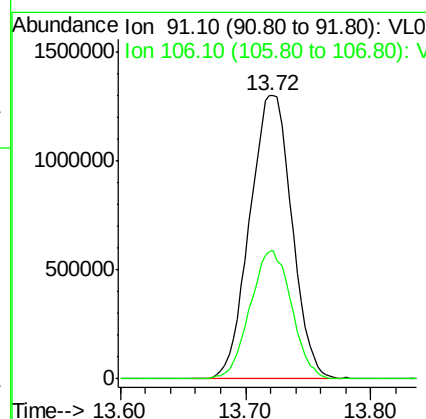
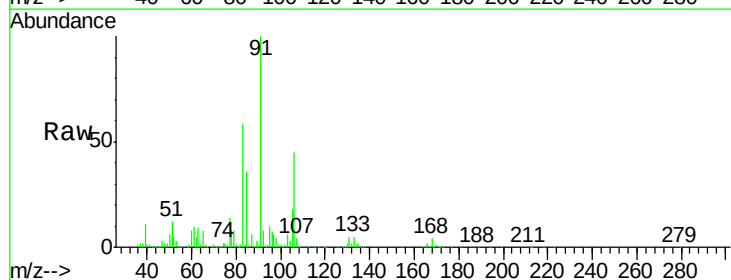
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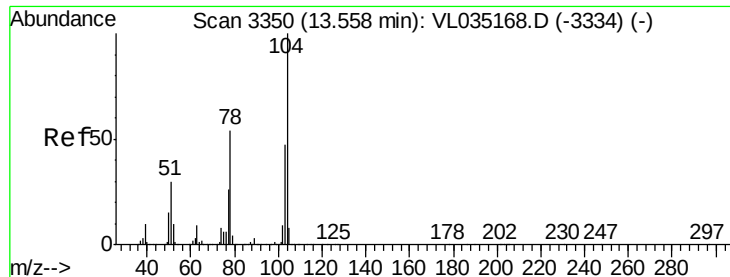
MMDadoda  
7/27/2020 12:29:27 PM



#60  
o-Xylene  
Concen: 10.639 ppbv  
RT: 13.72 min Scan# 3400  
Delta R.T. -0.00 min  
Lab File: VL035223.D  
Acq: 23 Jul 2020 9:18

Tgt Ion: 91 Resp: 3034014  
Ion Ratio Lower Upper  
91 100  
106 44.6 22.1 66.3





#61

Styrene

Concen: 12.198 ppbv

RT: 13.56 min Scan# 3350

Delta R.T. 0.00 min

Lab File: VL035223.D

Acq: 23 Jul 2020 9:18

Instrument :

MSVOA\_L

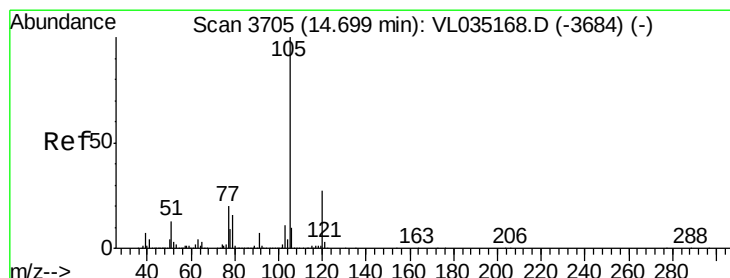
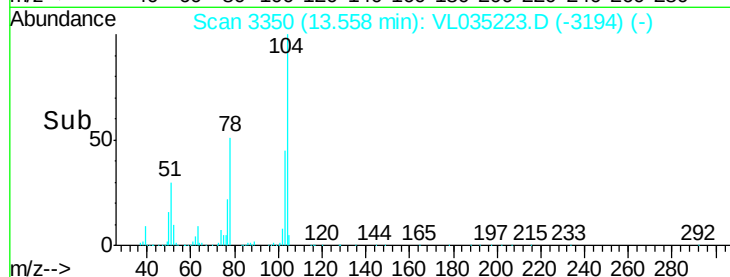
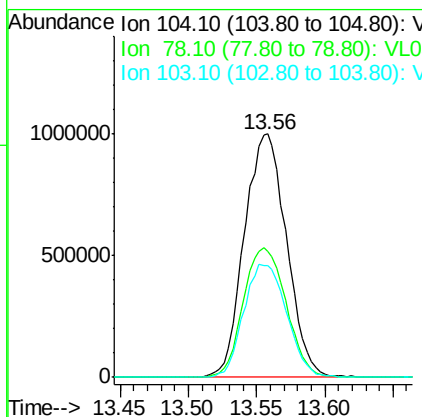
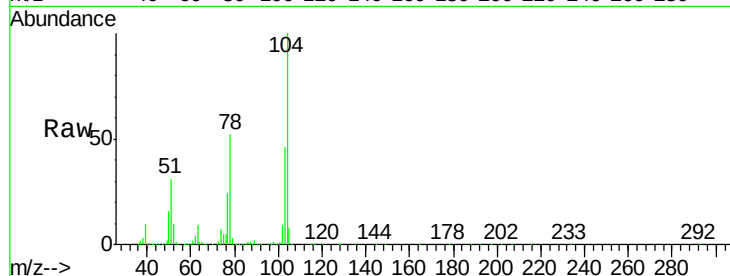
ClientSampleId :

VSTDCCC010

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 104   | Resp: | 2149612 |
| Ion      | Ratio | Lower | Upper   |
| 104      | 100   |       |         |
| 78       | 54.3  | 43.4  | 65.0    |
| 103      | 47.3  | 37.4  | 56.0    |

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#62

Isopropylbenzene

Concen: 10.594 ppbv

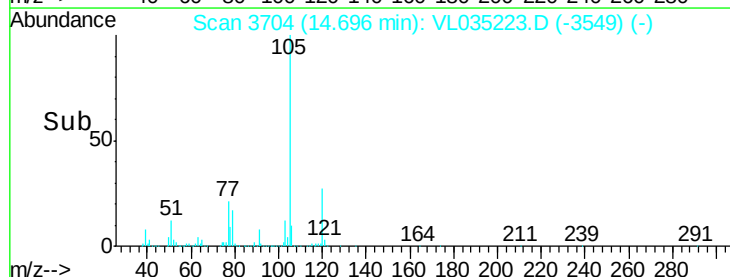
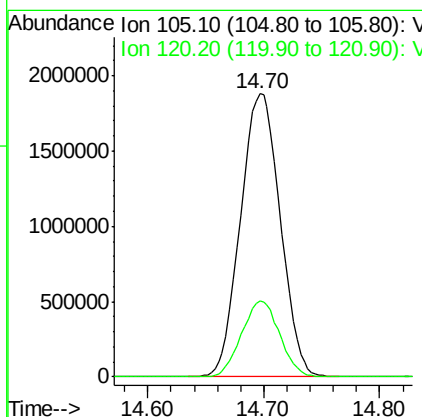
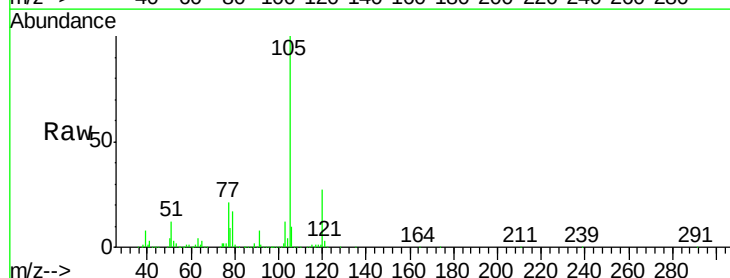
RT: 14.70 min Scan# 3704

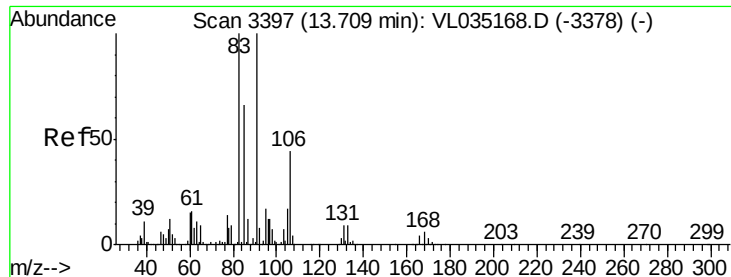
Delta R.T. -0.00 min

Lab File: VL035223.D

Acq: 23 Jul 2020 9:18

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 105   | Resp: | 4478142 |
| Ion      | Ratio | Lower | Upper   |
| 105      | 100   |       |         |
| 120      | 25.8  | 20.7  | 31.1    |





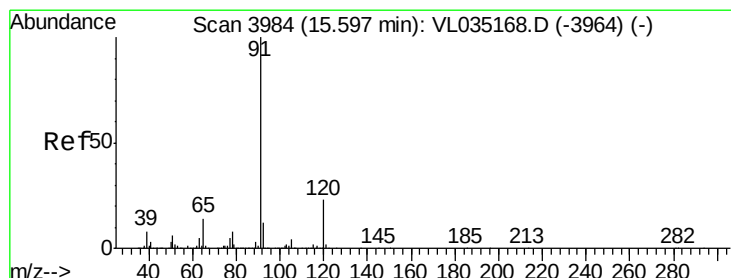
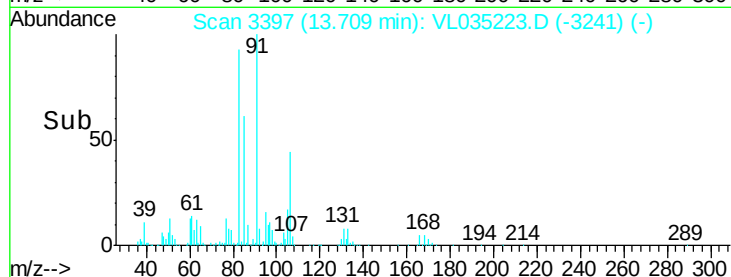
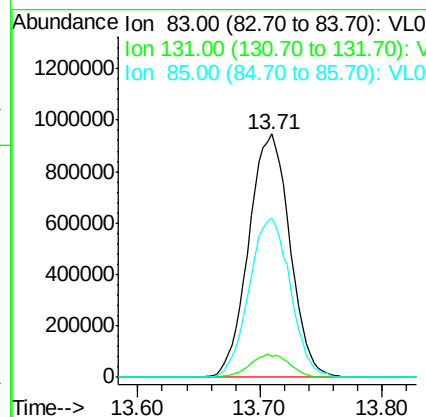
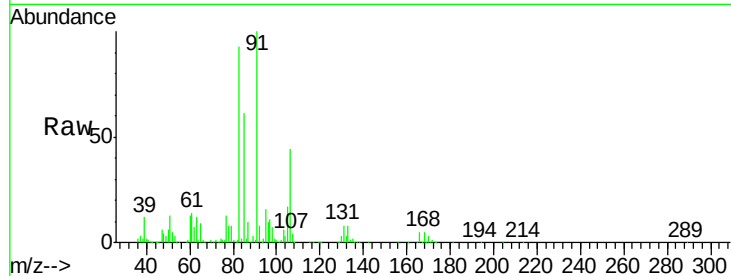
#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 9.271 ppbv  
 RT: 13.71 min Scan# 3397  
 Delta R.T. 0.00 min  
 Lab File: VL035223.D  
 Acq: 23 Jul 2020 9:18

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tgt Ion: 83 Resp: 2209462  
 Ion Ratio Lower Upper  
 83 100  
 131 9.2 4.7 14.0  
 85 65.3 33.0 99.0

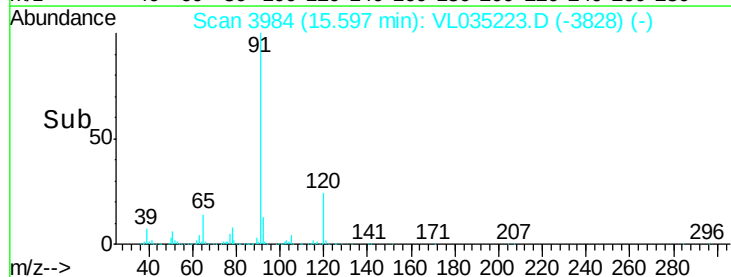
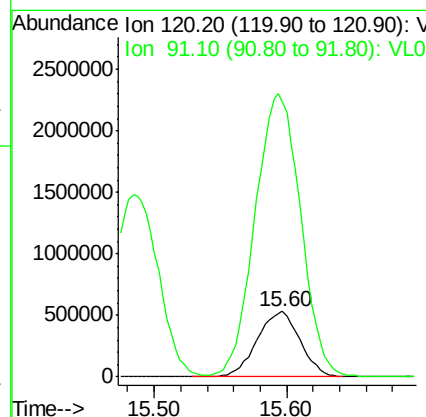
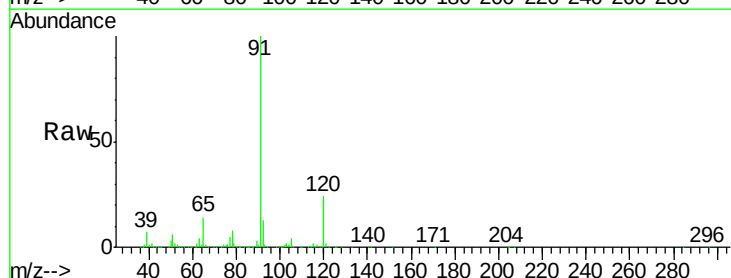
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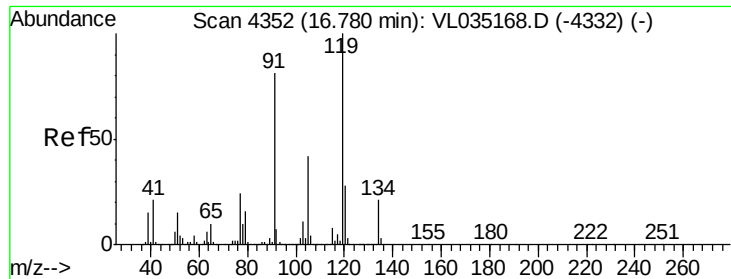
MMDadoda  
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#64  
 n-propylbenzene  
 Concen: 10.969 ppbv  
 RT: 15.60 min Scan# 3984  
 Delta R.T. 0.00 min  
 Lab File: VL035223.D  
 Acq: 23 Jul 2020 9:18

Tgt Ion: 120 Resp: 1197749  
 Ion Ratio Lower Upper  
 120 100  
 91 460.8 372.4 558.6





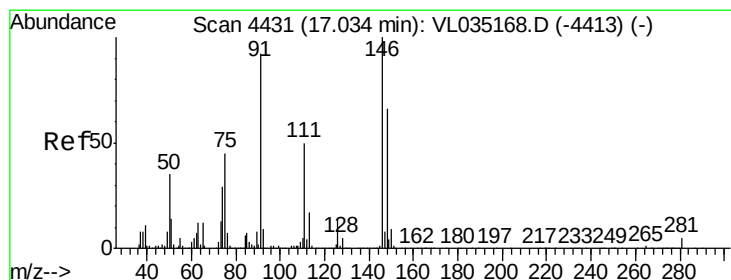
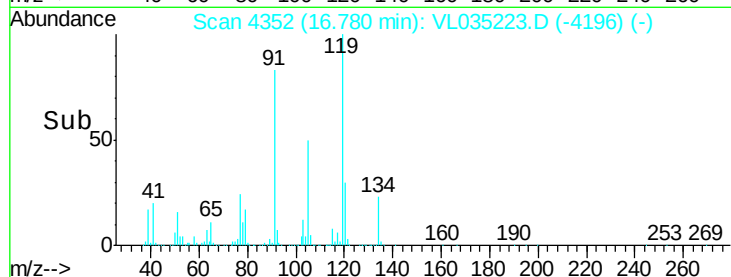
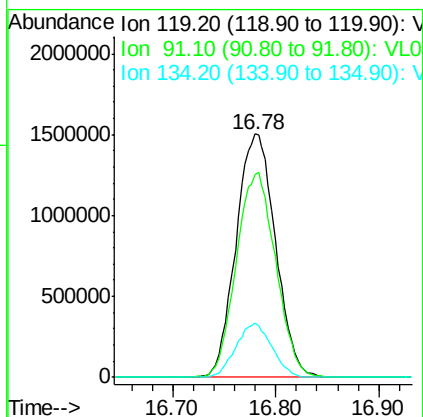
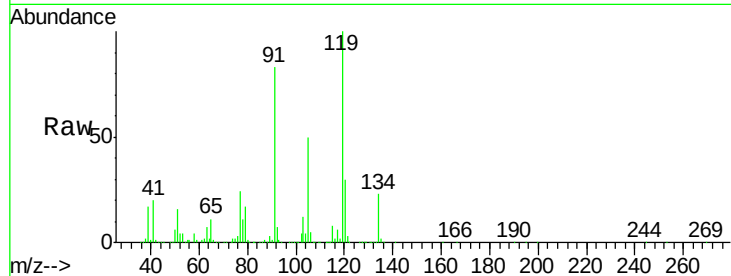
#65  
 tert-Butylbenzene  
 Concen: 10.505 ppbv  
 RT: 16.78 min Scan# 4352  
 Delta R.T. 0.00 min  
 Lab File: VL035223.D  
 Acq: 23 Jul 2020 9:18

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tgt Ion: 119 Resp: 3988484  
 Ion Ratio Lower Upper  
 119 100  
 91 84.4 67.5 101.3  
 134 20.3 16.0 24.0

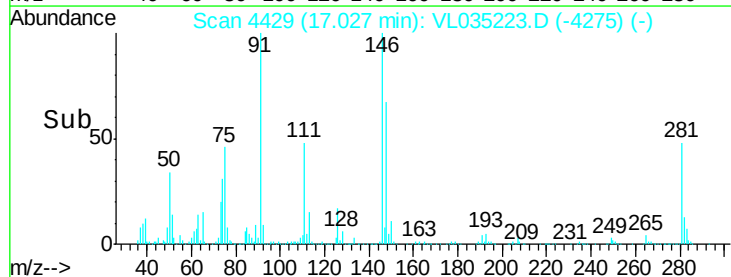
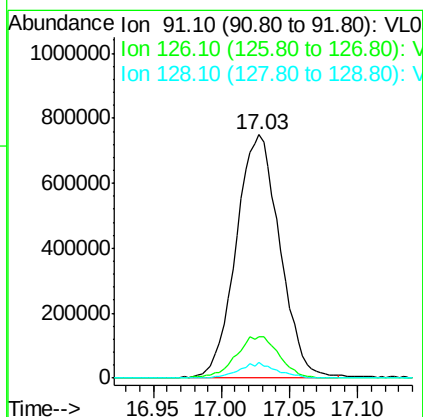
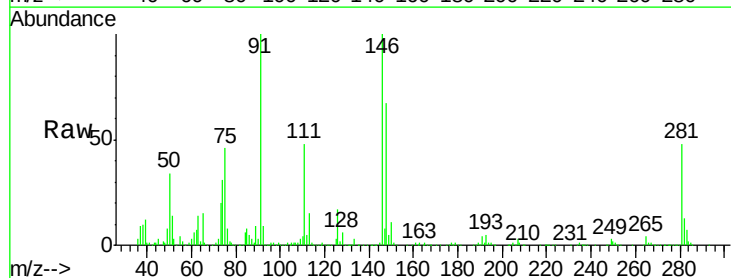
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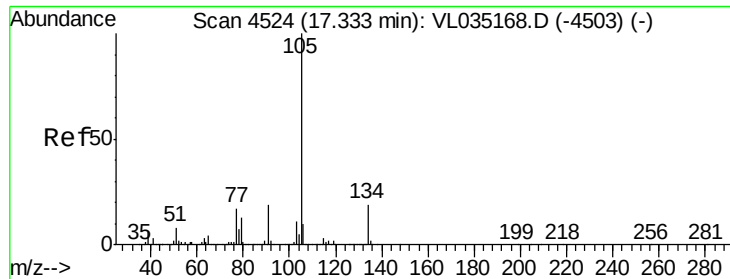
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#66  
 Benzyl Chloride  
 Concen: 12.226 ppbv  
 RT: 17.03 min Scan# 4429  
 Delta R.T. -0.01 min  
 Lab File: VL035223.D  
 Acq: 23 Jul 2020 9:18

Tgt Ion: 91 Resp: 1653663  
 Ion Ratio Lower Upper  
 91 100  
 126 17.3 13.9 20.9  
 128 5.5 4.2 6.4





#67

sec-Butylbenzene

Concen: 10.271 ppbv

RT: 17.33 min Scan# 4523

Delta R.T. -0.00 min

Lab File: VL035223.D

Acq: 23 Jul 2020 9:18

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 105 Resp: 5685016

Ion Ratio Lower Upper

105 100

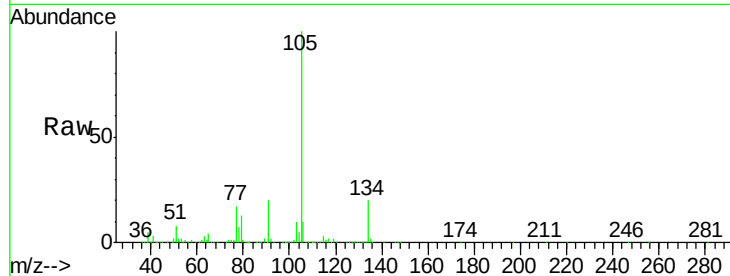
134 18.5 14.6 21.8

Manual Integrations

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.33

2500000

2000000

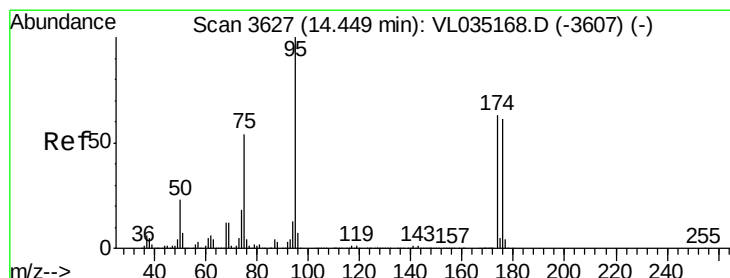
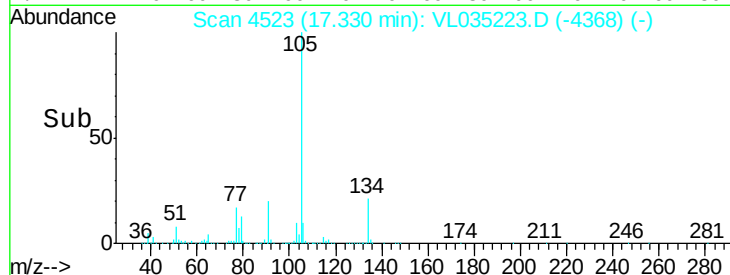
1500000

1000000

500000

0

Time--> 17.20 17.30 17.40



#68

1-Bromo-4-Fluorobenzene

Concen: 9.285 ppbv

RT: 14.45 min Scan# 3626

Delta R.T. -0.00 min

Lab File: VL035223.D

Acq: 23 Jul 2020 9:18

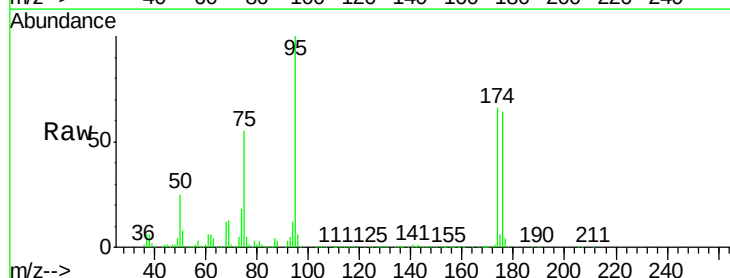
Tgt Ion: 95 Resp: 2188653

Ion Ratio Lower Upper

95 100

174 64.5 52.2 78.2

175 4.9 4.0 6.0



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

14.45

1200000

1000000

800000

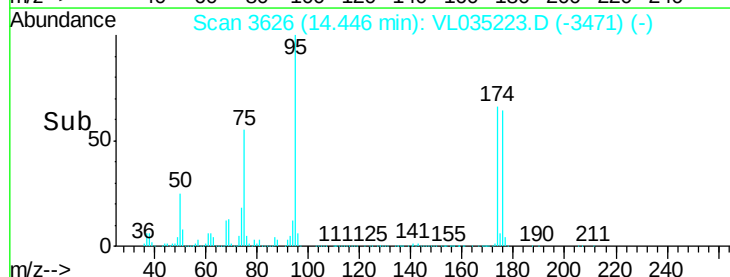
600000

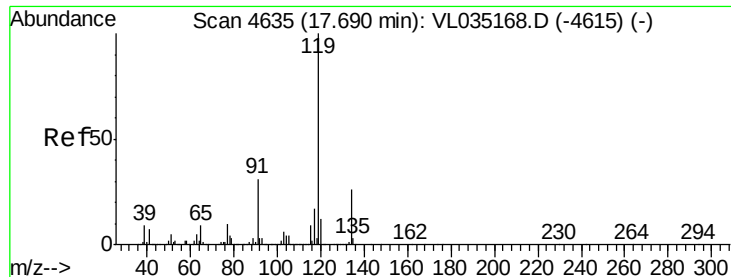
400000

200000

0

Time--> 14.40 14.50





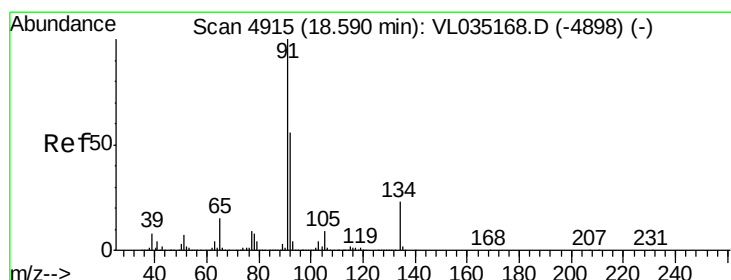
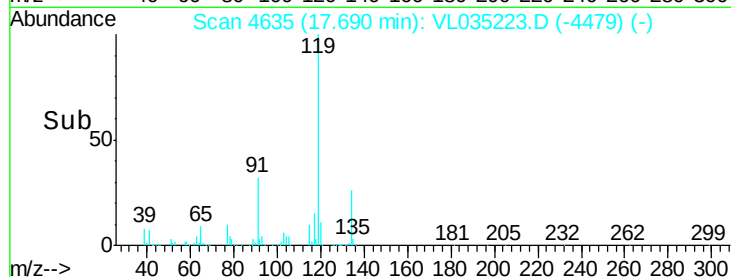
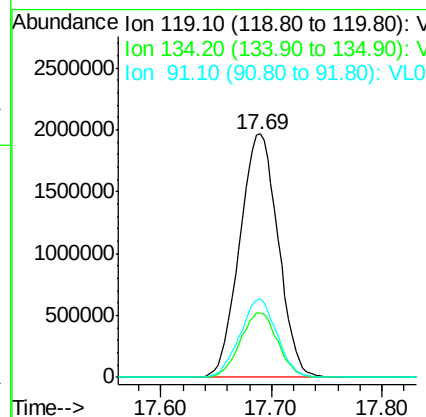
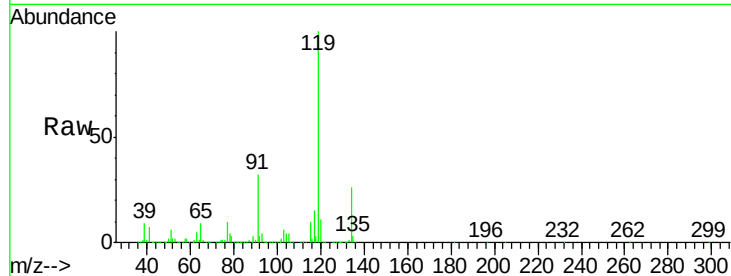
#69  
 p-Isopropyltoluene  
 Concen: 10.931 ppbv  
 RT: 17.69 min Scan# 4635  
 Delta R.T. 0.00 min  
 Lab File: VL035223.D  
 Acq: 23 Jul 2020 9:18

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tgt Ion: 119 Resp: 4741788  
 Ion Ratio Lower Upper  
 119 100  
 134 25.8 20.8 31.2  
 91 30.8 24.9 37.3

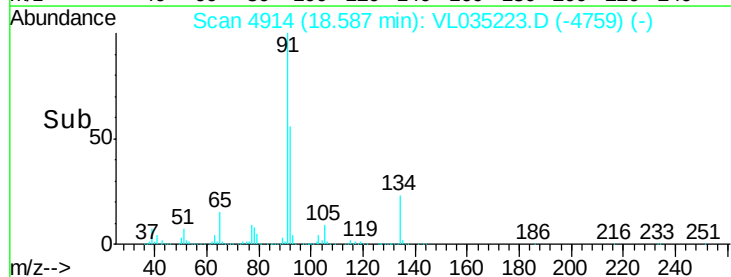
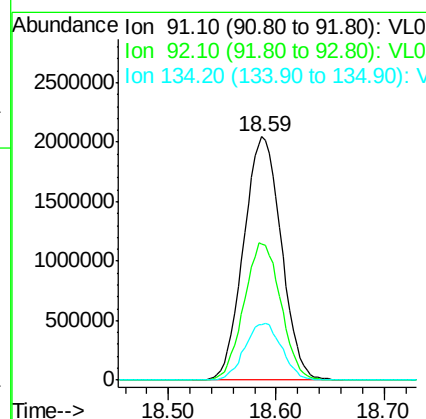
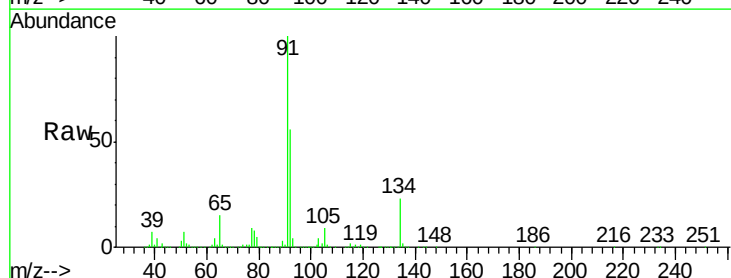
Manual Integrations  
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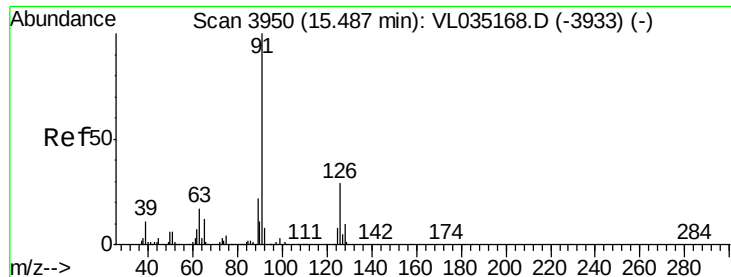
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 7/27/2020 12:29:27 PM



#70  
 n-Butylbenzene  
 Concen: 10.788 ppbv  
 RT: 18.59 min Scan# 4914  
 Delta R.T. -0.00 min  
 Lab File: VL035223.D  
 Acq: 23 Jul 2020 9:18

Tgt Ion: 91 Resp: 4962078  
 Ion Ratio Lower Upper  
 91 100  
 92 55.3 44.0 66.0  
 134 23.0 18.0 27.0





#71

2-Chlorotoluene

Concen: 10.902 ppbv

RT: 15.48 min Scan# 3949

Delta R.T. -0.00 min

Lab File: VL035223.D

Acq: 23 Jul 2020 9:18

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 91 Resp: 3487267

Ion Ratio Lower Upper

91 100

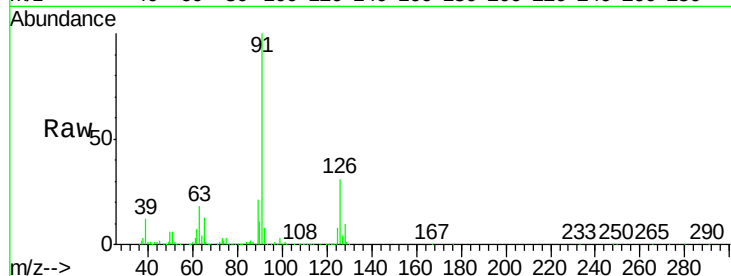
126 30.0 12.0 48.0

Manual Integrations

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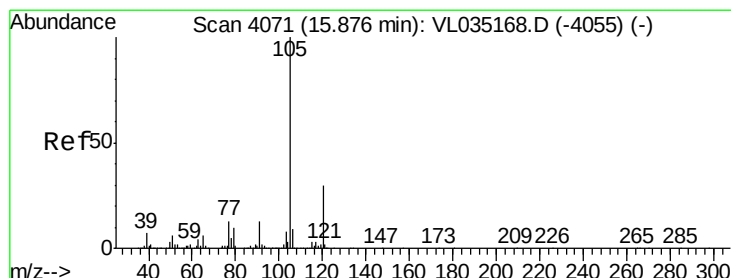
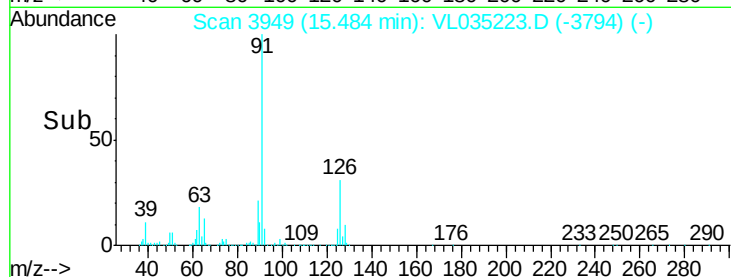
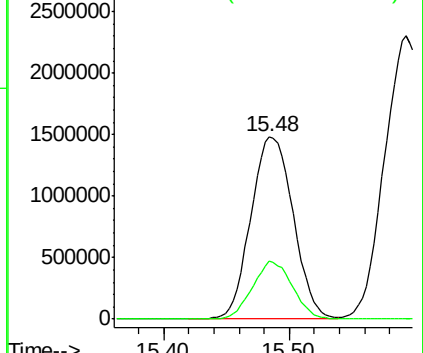
MMDadoda

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 11.197 ppbv

RT: 15.87 min Scan# 4069

Delta R.T. -0.01 min

Lab File: VL035223.D

Acq: 23 Jul 2020 9:18

Tgt Ion: 105 Resp: 3597911

Ion Ratio Lower Upper

105 100

120 29.6 23.2 34.8

91 13.4 10.9 16.3

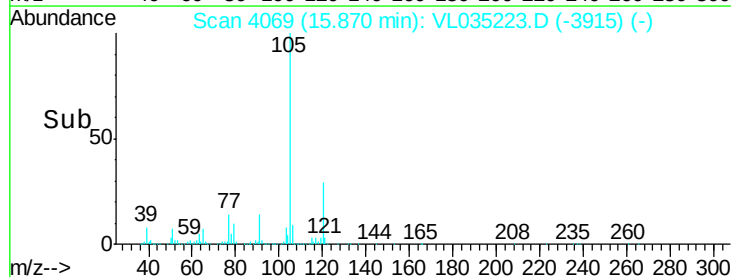
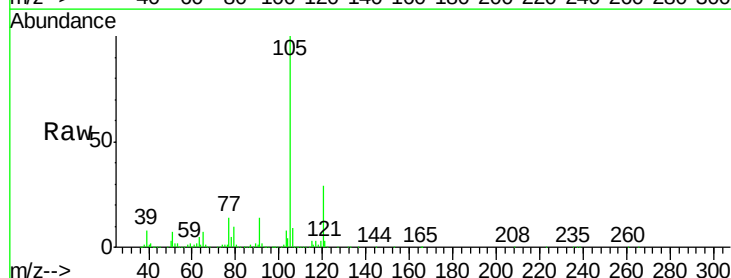
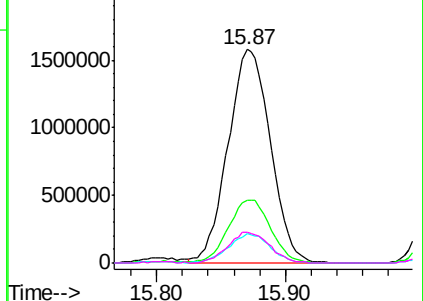
77 14.3 11.8 17.6

Abundance Ion 105.10 (104.80 to 105.80): V

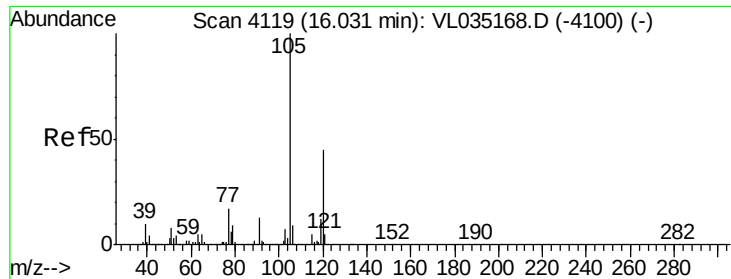
Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0







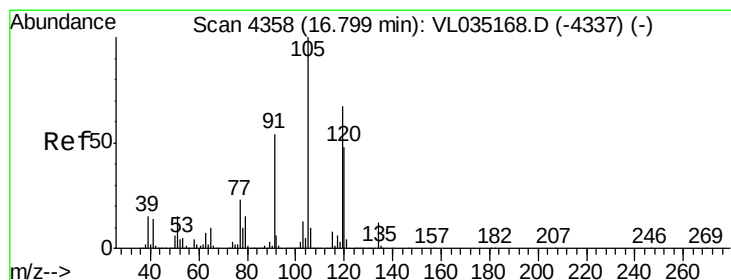
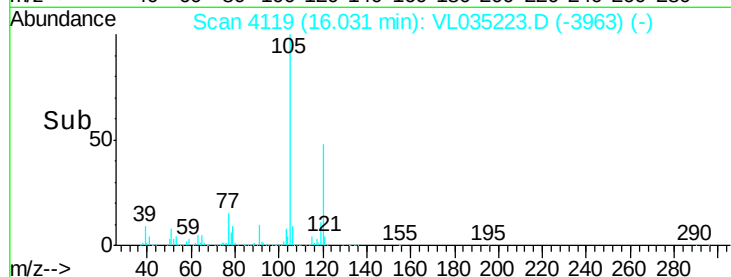
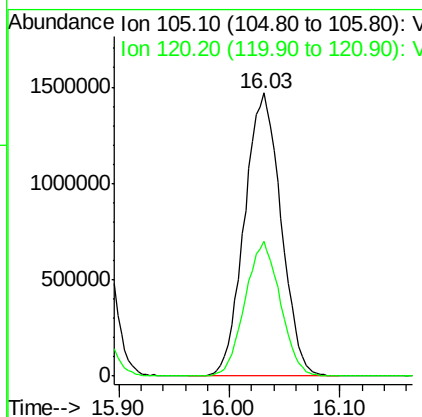
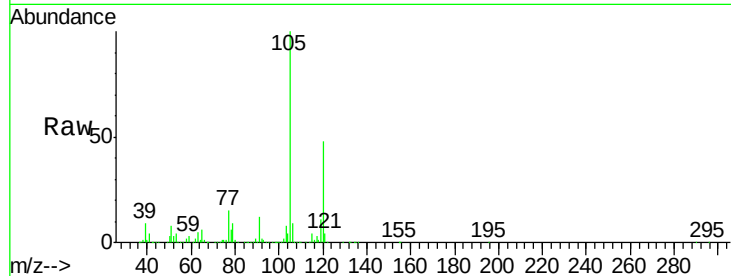
#73  
 1,3,5-Trimethylbenzene  
 Concen: 10.855 ppbv  
 RT: 16.03 min Scan# 4119  
 Delta R.T. 0.00 min  
 Lab File: VL035223.D  
 Acq: 23 Jul 2020 9:18

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tgt Ion:105 Resp: 3363725  
 Ion Ratio Lower Upper  
 105 100  
 120 47.9 36.2 54.2

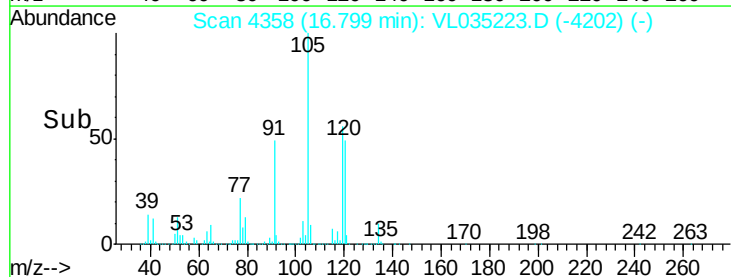
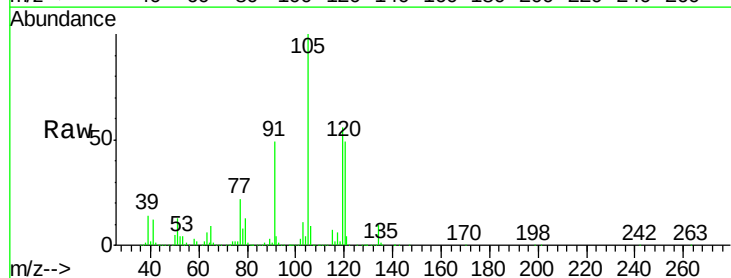
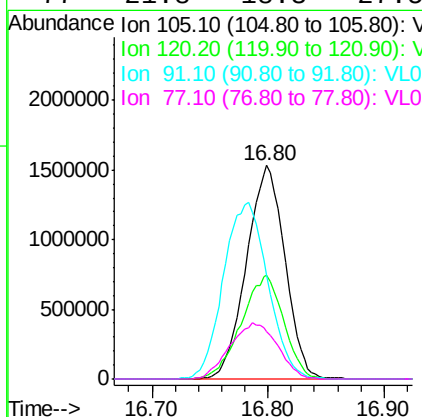
Manual Integrations  
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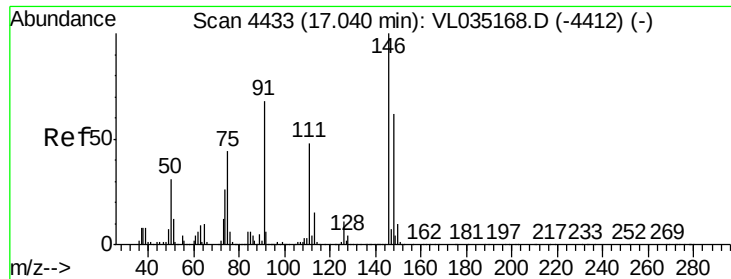
MMDadoda  
 7/27/2020 12:29:27 PM



#74  
 1,2,4-Trimethylbenzene  
 Concen: 10.317 ppbv  
 RT: 16.80 min Scan# 4358  
 Delta R.T. 0.00 min  
 Lab File: VL035223.D  
 Acq: 23 Jul 2020 9:18

Tgt Ion:105 Resp: 3532895  
 Ion Ratio Lower Upper  
 105 100  
 120 48.6 38.6 57.8  
 91 48.6 43.6 65.4  
 77 21.8 18.3 27.5





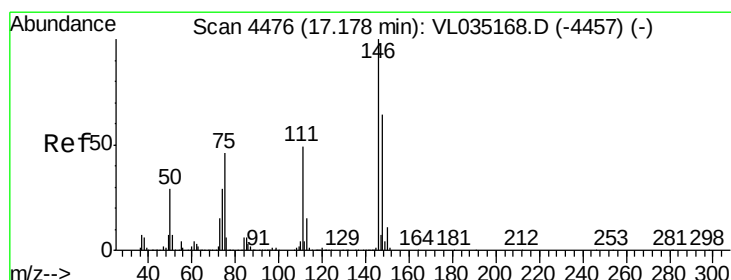
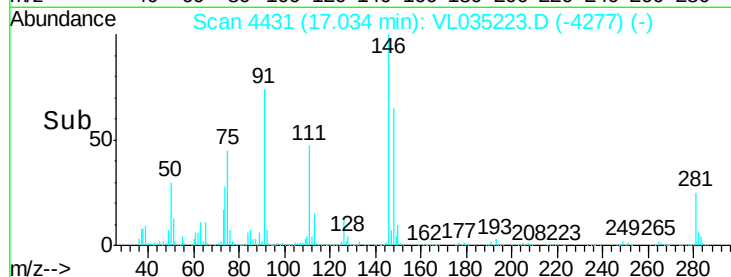
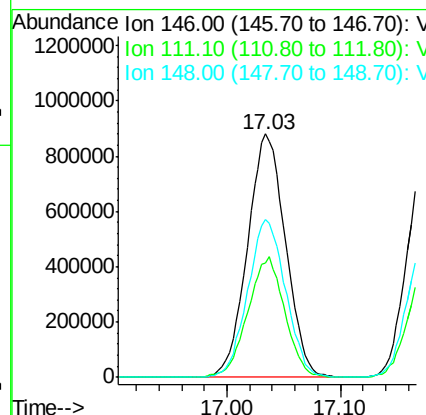
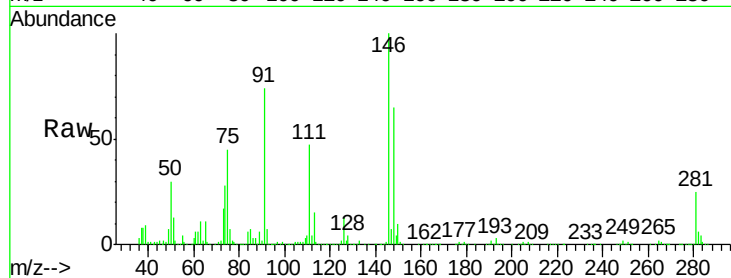
#75  
 1,3-Dichlorobenzene  
 Concen: 9.466 ppbv  
 RT: 17.03 min Scan# 4431  
 Delta R.T. -0.01 min  
 Lab File: VL035223.D  
 Acq: 23 Jul 2020 9:18

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 48.3  | 24.7  | 74.1  |
| 148     | 64.9  | 32.4  | 97.0  |

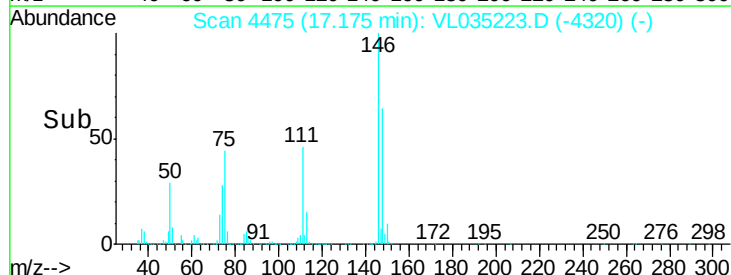
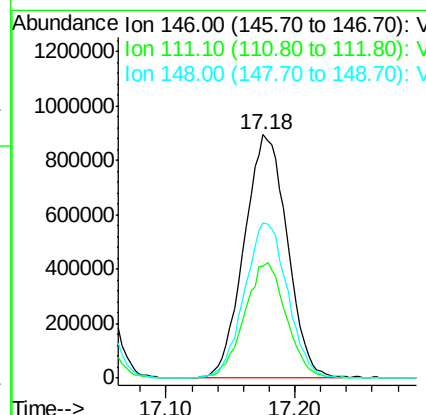
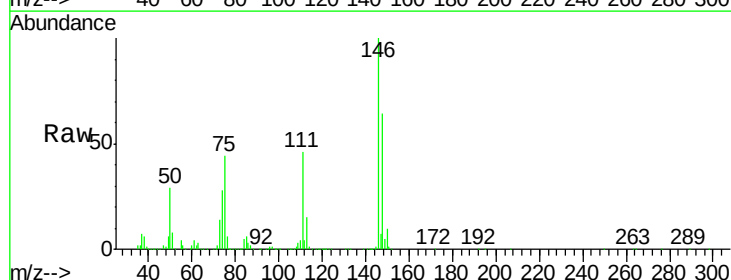
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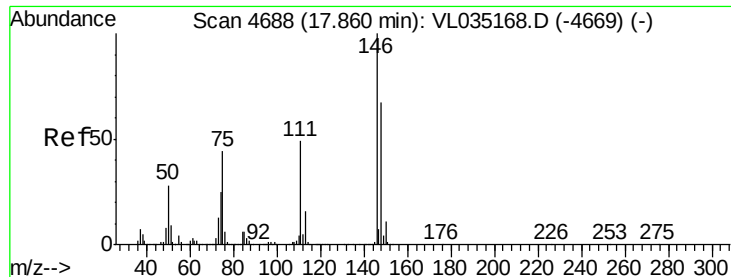
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#76  
 1,4-Dichlorobenzene  
 Concen: 10.245 ppbv  
 RT: 17.18 min Scan# 4475  
 Delta R.T. -0.00 min  
 Lab File: VL035223.D  
 Acq: 23 Jul 2020 9:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 46.4  | 23.8  | 71.2  |
| 148     | 64.3  | 32.3  | 96.9  |





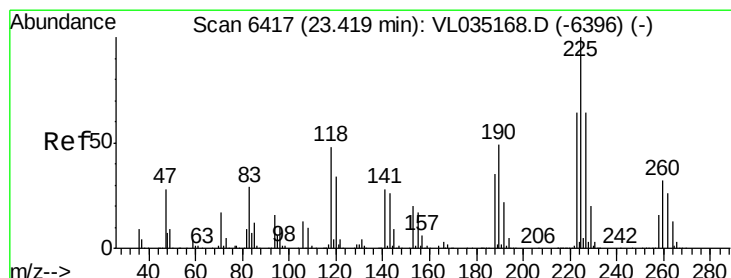
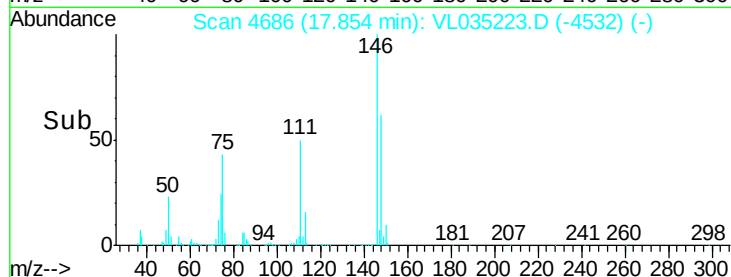
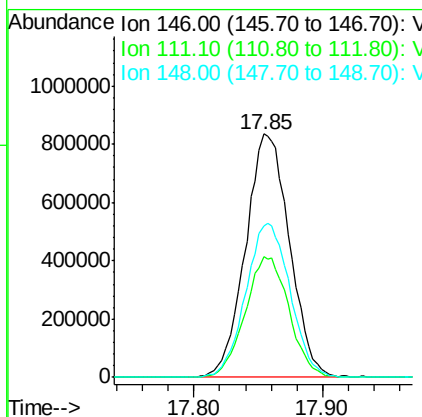
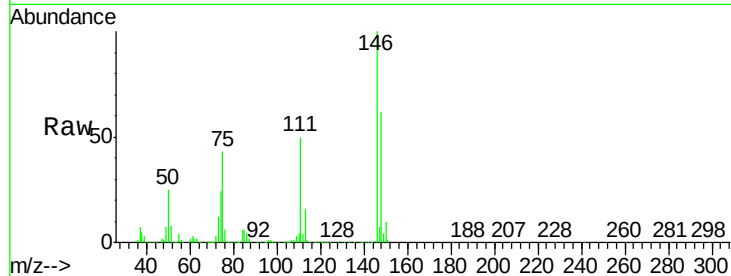
#77  
 1,2-Dichlorobenzene  
 Concen: 10.143 ppbv  
 RT: 17.85 min Scan# 4686  
 Delta R.T. -0.01 min  
 Lab File: VL035223.D  
 Acq: 23 Jul 2020 9:18

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tgt Ion:146 Resp: 1980388  
 Ion Ratio Lower Upper  
 146 100  
 111 49.5 25.1 75.2  
 148 63.9 32.4 97.0

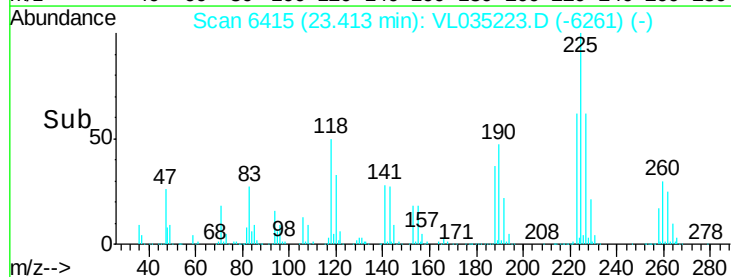
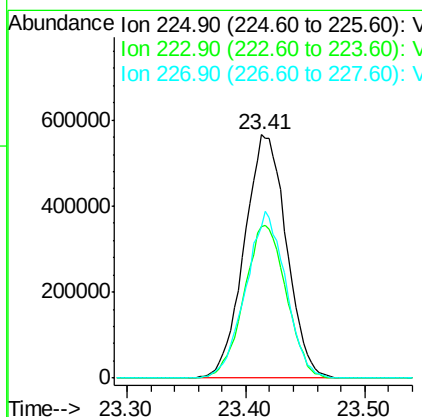
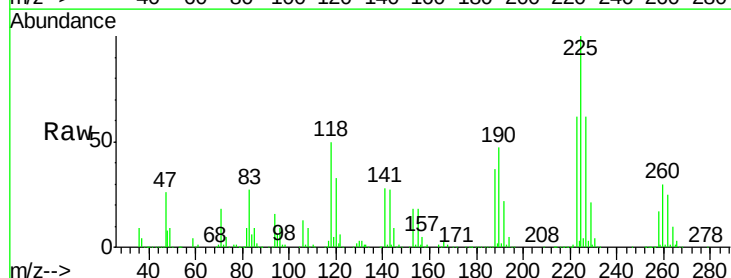
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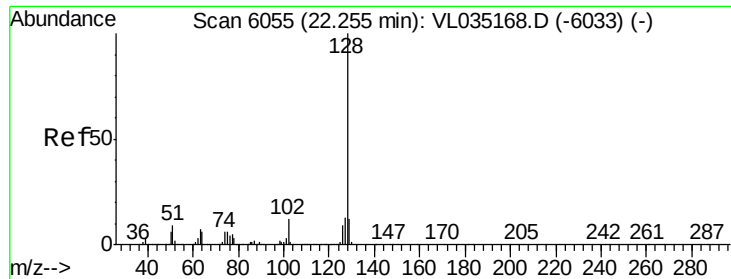
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#78  
 Hexachloro-1,3-Butadiene  
 Concen: 8.970 ppbv  
 RT: 23.41 min Scan# 6415  
 Delta R.T. -0.01 min  
 Lab File: VL035223.D  
 Acq: 23 Jul 2020 9:18

Tgt Ion:225 Resp: 1383957  
 Ion Ratio Lower Upper  
 225 100  
 223 62.8 50.2 75.2  
 227 65.3 51.2 76.8





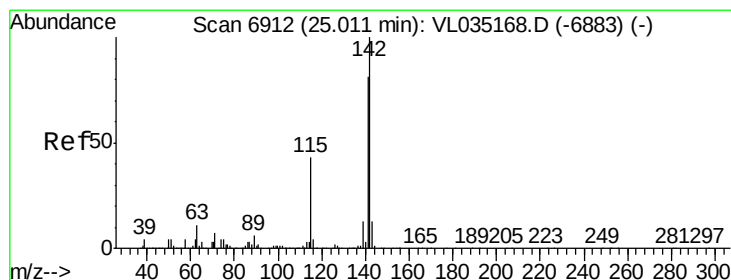
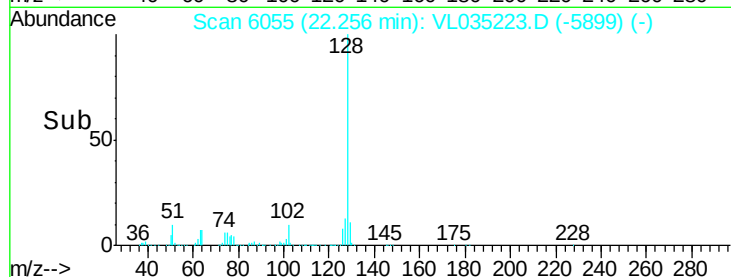
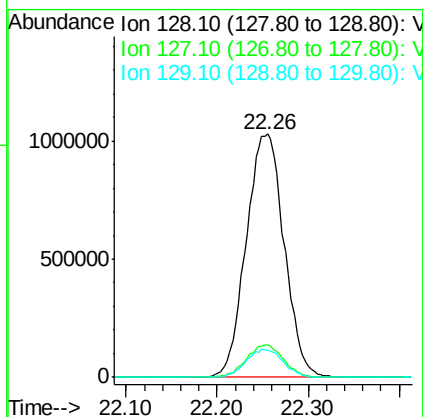
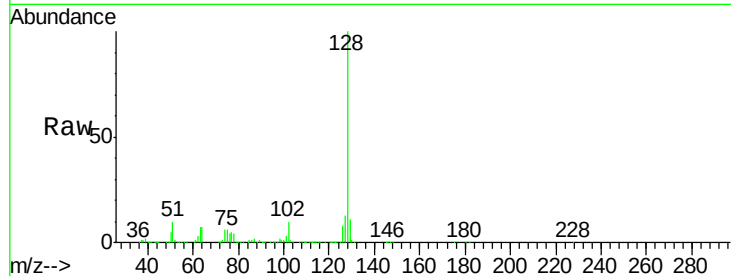
#79  
Naphthalene  
Concen: 13.427 ppbv  
RT: 22.26 min Scan# 6055  
Delta R.T. 0.00 min  
Lab File: VL035223.D  
Acq: 23 Jul 2020 9:18

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 13.4  | 10.8  | 16.2  |
| 129     | 11.5  | 9.4   | 14.2  |

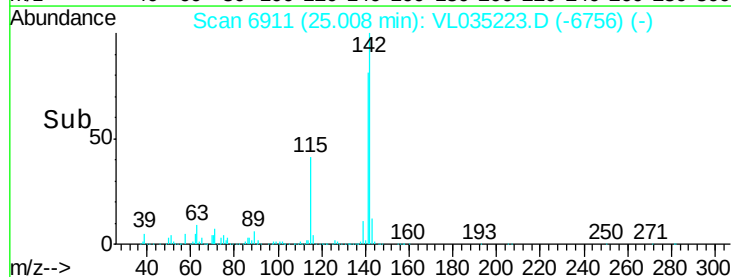
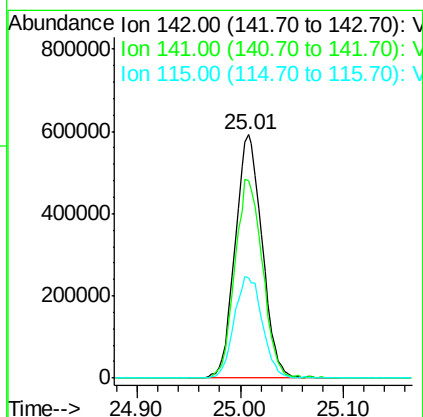
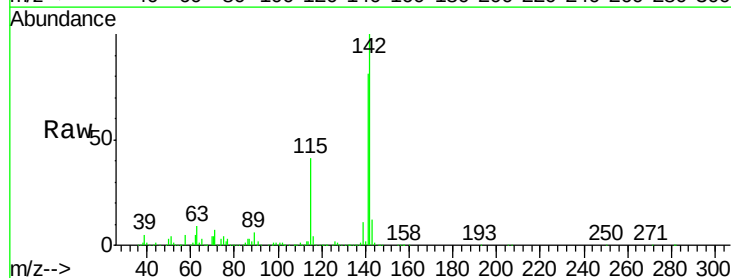
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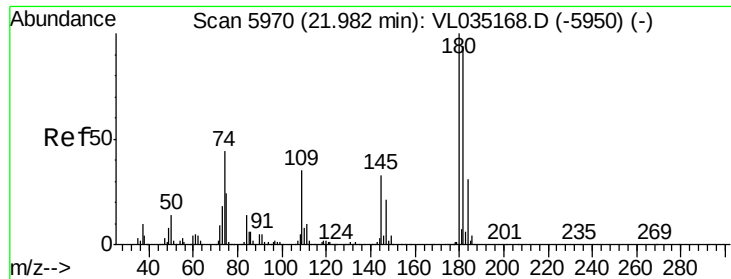
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#80  
Naphthalene, 2-methyl-  
Concen: 20.654 ppbv  
RT: 25.01 min Scan# 6911  
Delta R.T. -0.00 min  
Lab File: VL035223.D  
Acq: 23 Jul 2020 9:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 83.5  | 68.2  | 102.4 |
| 115     | 43.4  | 34.4  | 51.6  |





#81  
 1,2,4-Trichlorobenzene  
 Concen: 11.835 ppbv  
 RT: 21.99 min Scan# 5971  
 Delta R.T. 0.00 min  
 Lab File: VL035223.D  
 Acq: 23 Jul 2020 9:18

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tgt Ion:180 Resp: 1661420  
 Ion Ratio Lower Upper  
 180 100  
 182 95.5 76.7 115.1  
 184 31.2 25.0 37.6

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