

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081020\  
 Data File : VL035373.D  
 Acq On : 10 Aug 2020 14:18  
 Operator : SY/AP  
 Sample : VL0810ABS01  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0810ABS01

Manual Integrations  
 APPROVED

MMDadoda  
 8/12/2020 3:58:22 PM

Quant Time: Aug 11 04:46:31 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080520AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Aug 0  
 QLast Update : Wed Aug 05 13:04:46 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.65  | 49   | 1305977  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.18  | 114  | 3232204  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.11 | 117  | 3422118  | 10.00 | ppbv  | 0.00     |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 68) 1-Bromo-4-Fluorobenzene | 14.45  | 95    | 2610738  | 9.15     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 91.50% |

| Target Compounds               |      |     |         |        | Ovalue    |
|--------------------------------|------|-----|---------|--------|-----------|
| 2) Dichlorodifluoromethane     | 3.00 | 85  | 1519675 | 8.748  | ppbv 99   |
| 3) Chlorodifluoromethane       | 2.94 | 51  | 1448462 | 9.716  | ppbv 99   |
| 4) Chloromethane               | 3.10 | 50  | 808609  | 9.580  | ppbv 99   |
| 5) Vinyl Chloride              | 3.21 | 62  | 827541  | 9.532  | ppbv 98   |
| 6) Bromomethane                | 3.43 | 94  | 536963  | 10.096 | ppbv 98   |
| 7) Chloroethane                | 3.52 | 64  | 306666  | 9.511  | ppbv # 87 |
| 8) Dichlorotetrafluoroethane   | 3.14 | 85  | 2009557 | 9.787  | ppbv 99   |
| 9) Propene                     | 2.96 | 41  | 562565  | 10.590 | ppbv 99   |
| 10) Heptane                    | 8.13 | 43  | 1601285 | 11.801 | ppbv 98   |
| 11) Trichlorofluoromethane     | 3.92 | 101 | 2174883 | 9.664  | ppbv 99   |
| 12) 1,1,2-Trichlorotrifluoroet | 4.46 | 101 | 1573094 | 9.779  | ppbv 99   |
| 13) Ethanol                    | 3.56 | 45  | 171050m | 9.336  | ppbv      |
| 14) Bromoethene                | 3.70 | 108 | 666386  | 10.331 | ppbv 99   |
| 15) Acetone                    | 3.81 | 43  | 1628625 | 8.782  | ppbv 98   |
| 16) 1,3-Butadiene              | 3.29 | 39  | 754936  | 10.576 | ppbv 98   |
| 17) tert-Butyl alcohol         | 4.26 | 59  | 1839556 | 10.807 | ppbv 100  |
| 18) 1,1-Dichloroethene         | 4.26 | 96  | 697376  | 10.096 | ppbv 97   |
| 19) Isopropyl Alcohol          | 3.93 | 45  | 1209034 | 10.285 | ppbv 99   |
| 20) Methylene Chloride         | 4.31 | 84  | 662654  | 8.762  | ppbv 96   |
| 21) Allyl Chloride             | 4.38 | 41  | 1102976 | 10.380 | ppbv 99   |
| 22) trans-1,2-Dichloroethene   | 4.86 | 96  | 697459  | 10.413 | ppbv 97   |
| 23) Vinyl Acetate              | 5.06 | 43  | 1989623 | 11.188 | ppbv 98   |
| 24) 1,1-Dichloroethane         | 4.99 | 63  | 1682754 | 10.069 | ppbv 98   |
| 25) Ethyl Acetate              | 5.66 | 43  | 2924133 | 10.377 | ppbv 99   |
| 26) Hexane                     | 5.67 | 57  | 1318251 | 10.785 | ppbv 98   |
| 27) Carbon Disulfide           | 4.52 | 76  | 1829638 | 10.705 | ppbv 99   |
| 28) Methyl tert-Butyl Ether    | 5.01 | 73  | 1989025 | 11.191 | ppbv 100  |
| 29) Chloroform                 | 5.74 | 83  | 2091205 | 9.924  | ppbv 98   |
| 30) Cyclohexane                | 7.13 | 84  | 1085787 | 11.715 | ppbv 99   |
| 31) cis-1,2-Dichloroethene     | 5.54 | 61  | 1256586 | 11.564 | ppbv 97   |
| 32) 1,1,1-Trichloroethane      | 6.51 | 97  | 2090573 | 9.439  | ppbv 99   |
| 34) 2-Butanone                 | 5.22 | 43  | 1760662 | 11.063 | ppbv 99   |
| 35) Carbon Tetrachloride       | 7.02 | 117 | 2215195 | 9.959  | ppbv 99   |
| 36) Benzene                    | 6.89 | 78  | 2527006 | 11.578 | ppbv 99   |
| 37) 1,2-Dichloroethane         | 6.30 | 62  | 1607332 | 10.541 | ppbv 100  |
| 38) Trichloroethene            | 7.84 | 130 | 1093265 | 10.859 | ppbv 98   |
| 39) 1,2-Dichloropropane        | 7.62 | 63  | 967640  | 10.951 | ppbv 97   |
| 40) 1,4-Dioxane                | 7.83 | 88  | 431393  | 11.401 | ppbv # 1  |
| 41) Tetrahydrofuran            | 6.04 | 42  | 958900  | 12.278 | ppbv 99   |
| 42) Bromodichloromethane       | 7.80 | 83  | 2261522 | 11.045 | ppbv 96   |
| 43) Methyl Methacrylate        | 8.02 | 69  | 1151612 | 12.542 | ppbv 99   |

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Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0810ABS01

Manual Integrations  
 APPROVED

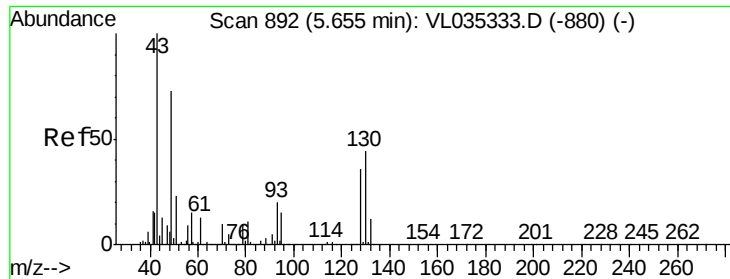
MMDadoda  
 8/12/2020 3:58:22 PM

Quant Time: Aug 11 04:46:31 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080520AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Aug 0  
 QLast Update : Wed Aug 05 13:04:46 2020  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.87  | 57   | 4380885  | 11.298 | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 9.30  | 75   | 1278151  | 13.419 | ppbv   | 100      |
| 46) cis-1,3-Dichloropropene   | 8.72  | 75   | 1515965  | 13.178 | ppbv   | 99       |
| 47) 1,1,2-Trichloroethane     | 9.49  | 97   | 1115472  | 10.500 | ppbv   | 97       |
| 48) Dibromochloromethane      | 10.33 | 129  | 1956940  | 11.245 | ppbv   | 99       |
| 49) Bromoform                 | 13.08 | 173  | 1806852  | 11.394 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.75  | 43   | 2765993  | 11.383 | ppbv   | 100      |
| 51) 2-Hexanone                | 10.15 | 43   | 2277925  | 11.958 | ppbv # | 99       |
| 52) Tetrachloroethene         | 11.25 | 164  | 981042   | 11.337 | ppbv   | 99       |
| 53) Toluene                   | 9.82  | 91   | 3041769  | 12.811 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 10.64 | 107  | 1704208  | 11.181 | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 12.16 | 131  | 1523823  | 9.434  | ppbv # | 89       |
| 57) Chlorobenzene             | 12.18 | 112  | 2494119  | 9.679  | ppbv   | 98       |
| 58) Ethyl Benzene             | 12.74 | 91   | 4110289  | 11.543 | ppbv   | 95       |
| 59) m/p-Xylene                | 13.02 | 91   | 7092160m | 21.389 | ppbv   |          |
| 60) o-Xylene                  | 13.73 | 91   | 3535807  | 10.746 | ppbv   | 99       |
| 61) Styrene                   | 13.56 | 104  | 2492503  | 12.404 | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.70 | 105  | 5251557  | 10.600 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.71 | 83   | 2567573  | 9.147  | ppbv   | 99       |
| 64) n-propylbenzene           | 15.60 | 120  | 1435161  | 10.779 | ppbv   | 99       |
| 65) tert-Butylbenzene         | 16.78 | 119  | 4811461  | 10.606 | ppbv   | 99       |
| 66) Benzyl Chloride           | 17.03 | 91   | 2027643  | 11.292 | ppbv   | 99       |
| 67) sec-Butylbenzene          | 17.34 | 105  | 6622559  | 10.320 | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 17.69 | 119  | 5688574  | 10.874 | ppbv   | 99       |
| 70) n-Butylbenzene            | 18.59 | 91   | 5892732  | 10.530 | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 15.49 | 91   | 4077622  | 11.236 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 15.87 | 105  | 4220585  | 11.250 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 16.03 | 105  | 3995840  | 11.100 | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.80 | 105  | 4270692  | 10.380 | ppbv   | 98       |
| 75) 1,3-Dichlorobenzene       | 17.04 | 146  | 2559076  | 9.508  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.18 | 146  | 2513027  | 10.082 | ppbv   | 100      |
| 77) 1,2-Dichlorobenzene       | 17.86 | 146  | 2432658  | 9.794  | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.42 | 225  | 1950425  | 9.229  | ppbv   | 99       |
| 79) Naphthalene               | 22.26 | 128  | 4072411  | 12.869 | ppbv   | 100      |
| 80) Naphthalene, 2-methyl-    | 25.01 | 142  | 1398718  | 19.431 | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 21.99 | 180  | 2294157  | 11.504 | ppbv   | 99       |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. 0.00 min

Lab File: VL035373.D

Acq: 10 Aug 2020 14:18

Instrument :

MSVOA\_L

ClientSampleId :

VL0810ABS01

Tot Ion: 49 Resp: 1305977

Ion Ratio Lower Upper

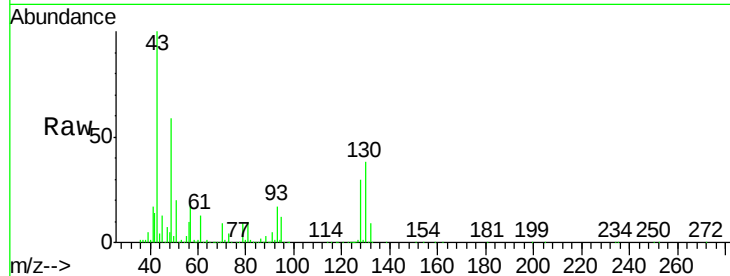
49 100

128 50.0 25.4 76.0

130 63.6 32.1 96.3

Manual Integrations  
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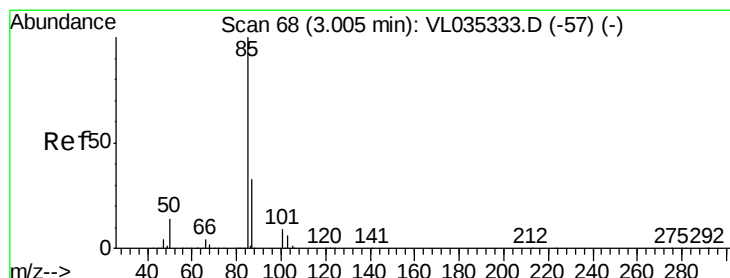
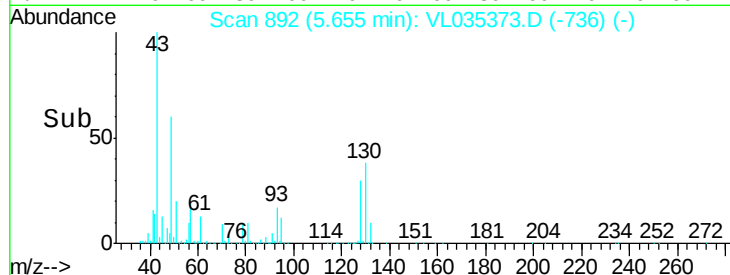
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.65

Time-->



#2

Dichlorodifluoromethane

Concen: 8.748 ppbv

RT: 3.00 min Scan# 67

Delta R.T. -0.00 min

Lab File: VL035373.D

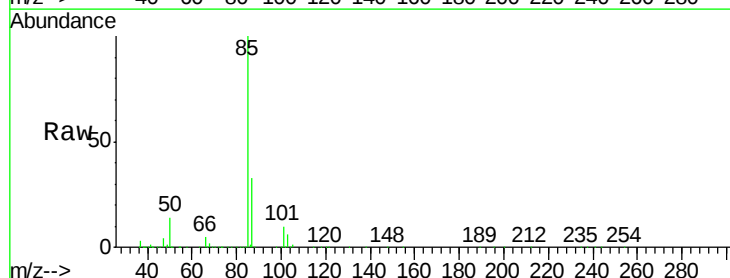
Acq: 10 Aug 2020 14:18

Tgt Ion: 85 Resp: 1519675

Ion Ratio Lower Upper

85 100

87 33.1 26.7 40.1

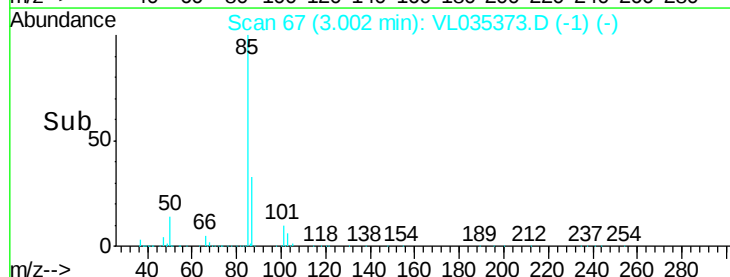


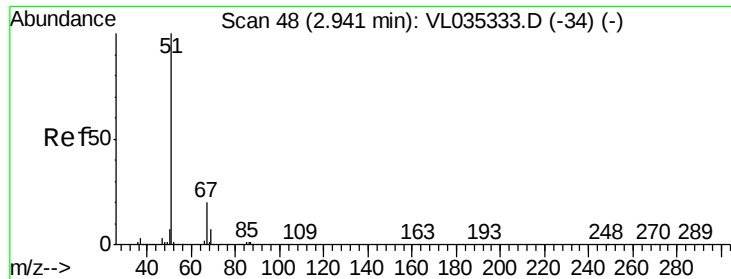
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.00

Time-->





#3

Chlorodifluoromethane

Concen: 9.716 ppbv

RT: 2.94 min Scan# 48

Delta R.T. 0.00 min

Lab File: VL035373.D

Acq: 10 Aug 2020 14:18

Instrument :

MSVOA\_L

ClientSampleId :

VL0810ABS01

Tot Ion: 51 Resp: 1448462

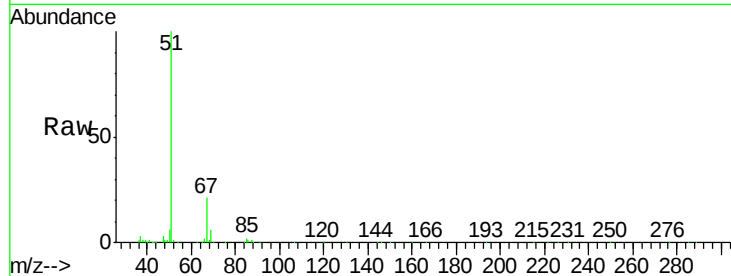
Ion Ratio Lower Upper

51 100

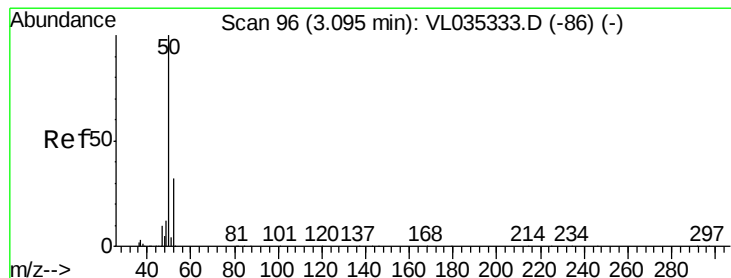
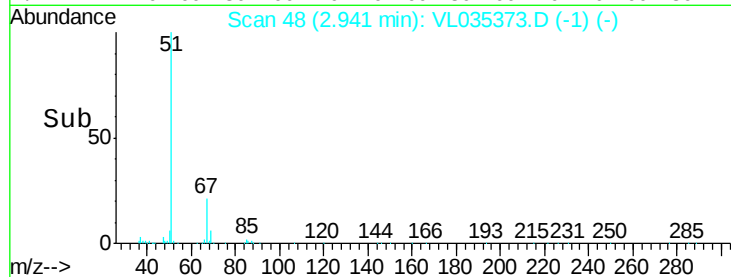
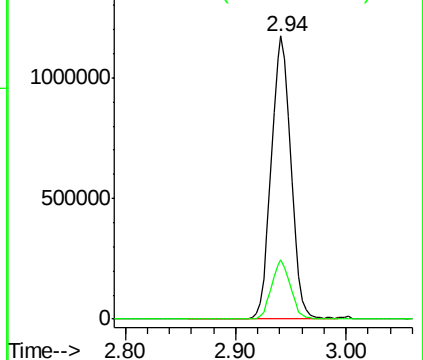
67 20.3 16.6 25.0

Manual Integrations  
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Abundance Ion 51.00 (50.70 to 51.70): VL0  
Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.580 ppbv

RT: 3.10 min Scan# 96

Delta R.T. 0.00 min

Lab File: VL035373.D

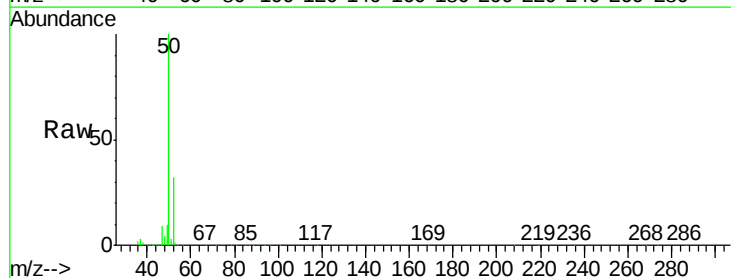
Acq: 10 Aug 2020 14:18

Tgt Ion: 50 Resp: 808609

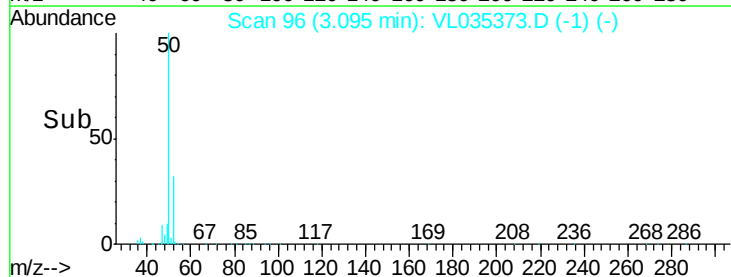
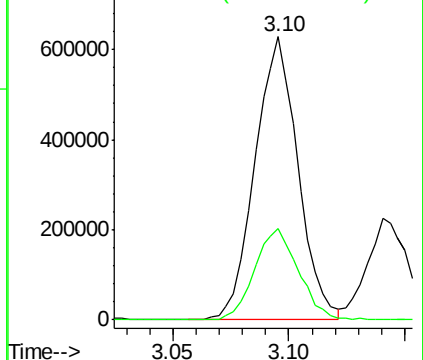
Ion Ratio Lower Upper

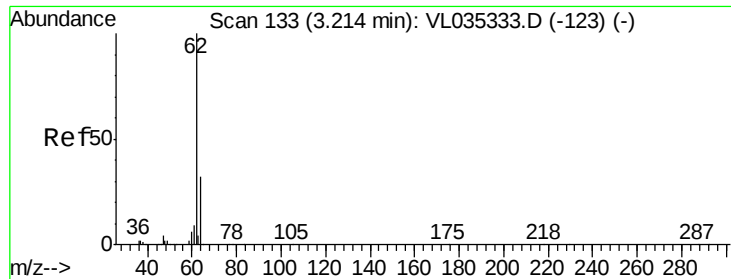
50 100

52 32.2 26.0 39.0



Abundance Ion 50.10 (49.80 to 50.80): VL0  
Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.532 ppbv

RT: 3.21 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL035373.D

Acq: 10 Aug 2020 14:18

Instrument :

MSVOA\_L

ClientSampleId :

VL0810ABS01

Tot Ion: 62 Resp: 827541

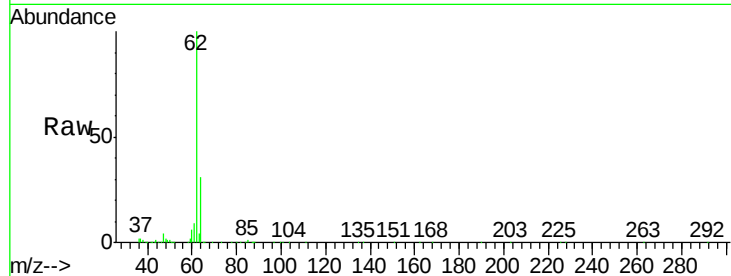
Ion Ratio Lower Upper

62 100

64 30.8 25.8 38.6

Manual Integrations  
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8/12/2020 3:58:22 PM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.21

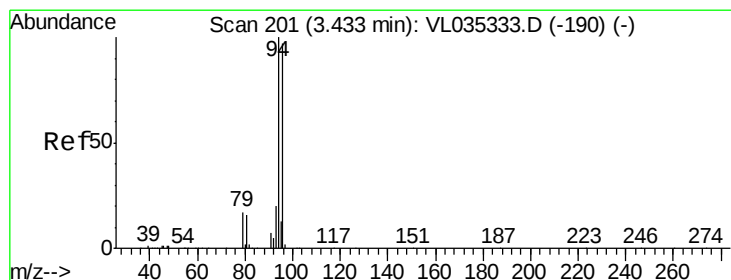
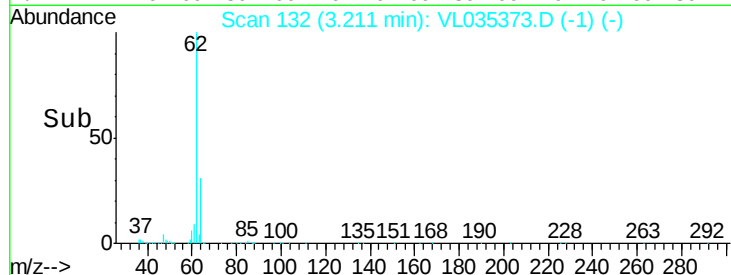
600000

400000

200000

0

Time-->



#6

Bromomethane

Concen: 10.096 ppbv

RT: 3.43 min Scan# 200

Delta R.T. -0.00 min

Lab File: VL035373.D

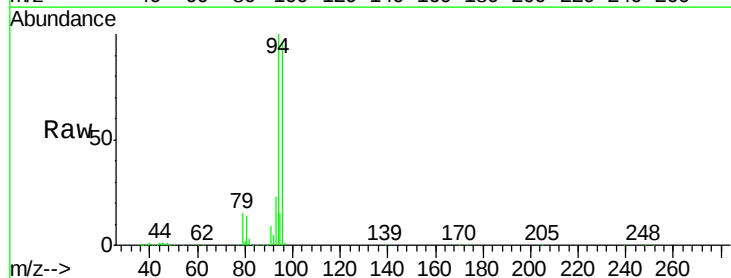
Acq: 10 Aug 2020 14:18

Tgt Ion: 94 Resp: 536963

Ion Ratio Lower Upper

94 100

96 95.0 77.3 115.9



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.43

400000

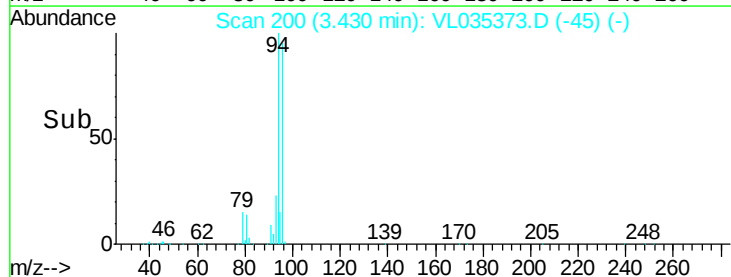
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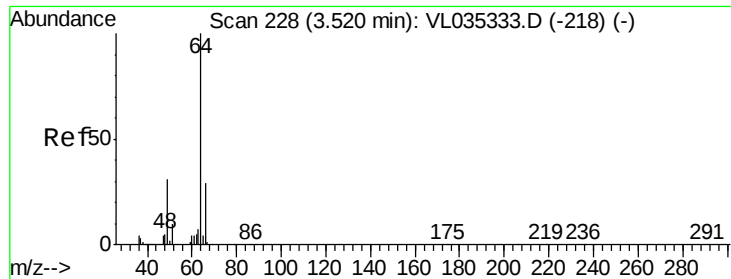
200000

100000

0

Time-->





#7

Chloroethane

Concen: 9.511 ppbv

RT: 3.52 min Scan# 227

Delta R.T. -0.00 min

Lab File: VL035373.D

Acq: 10 Aug 2020 14:18

Instrument :

MSVOA\_L

ClientSampleId :

VL0810ABS01

Tot Ion: 64 Resp: 306666

Ion Ratio Lower Upper

64 100

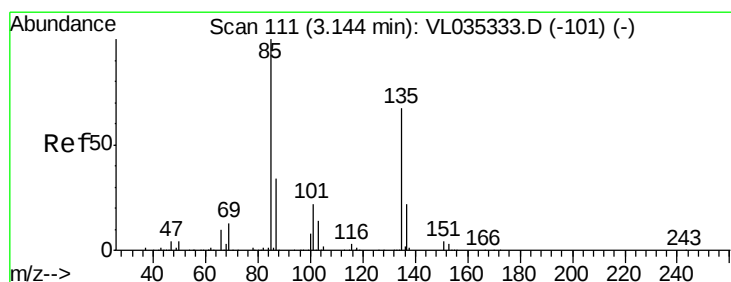
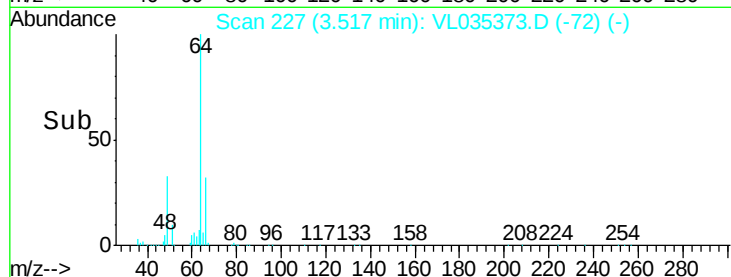
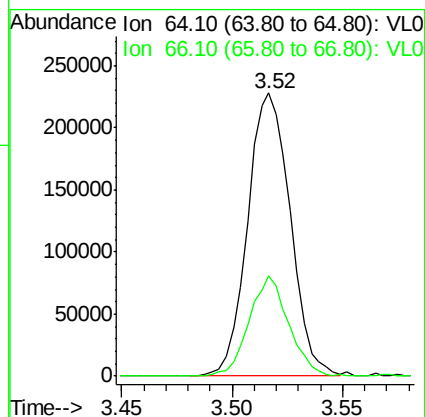
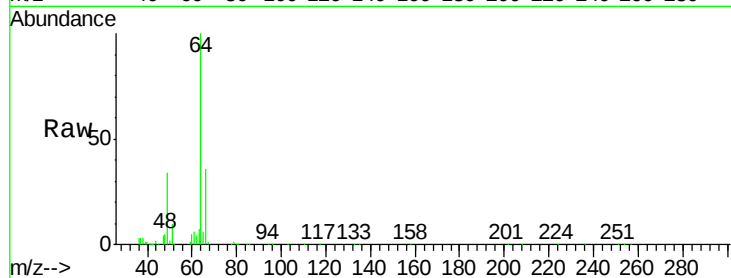
66 35.5 23.0 34.6#

Manual Integrations

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8/12/2020 3:58:22 PM



#8

Dichlorotetrafluoroethane

Concen: 9.787 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL035373.D

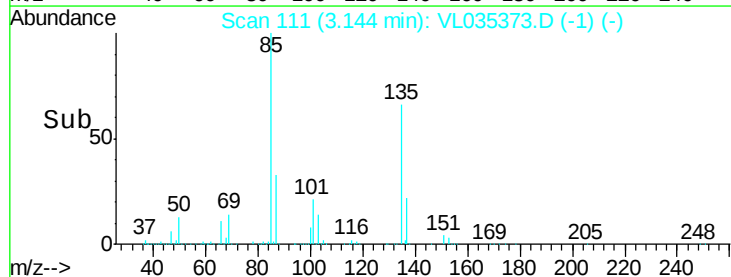
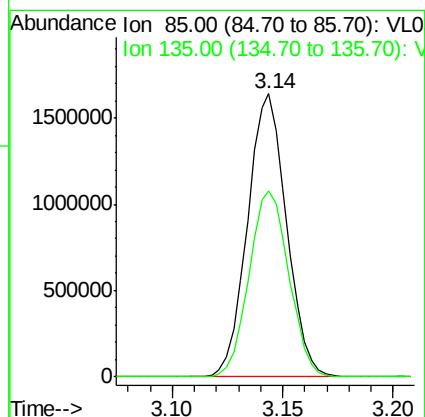
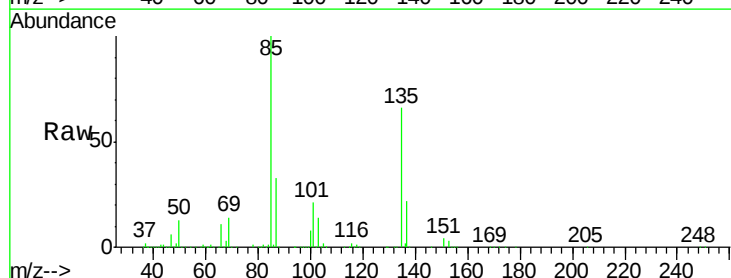
Acq: 10 Aug 2020 14:18

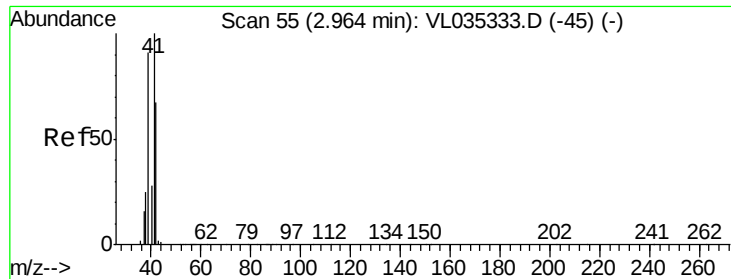
Tgt Ion: 85 Resp: 2009557

Ion Ratio Lower Upper

85 100

135 67.2 54.5 81.7





#9

Propene

Concen: 10.590 ppbv

RT: 2.96 min Scan# 54

Delta R.T. -0.00 min

Lab File: VL035373.D

Acq: 10 Aug 2020 14:18

Instrument :

MSVOA\_L

ClientSampleId :

VL0810ABS01

Tot Ion: 41 Resp: 562565

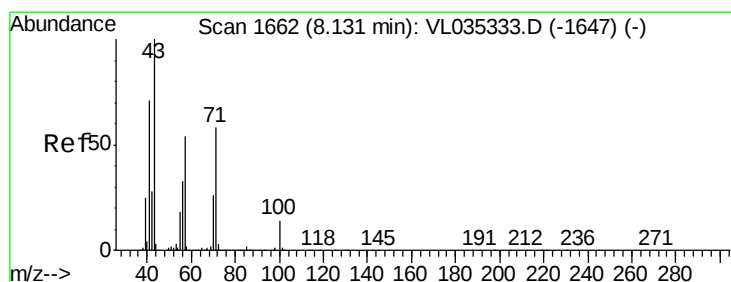
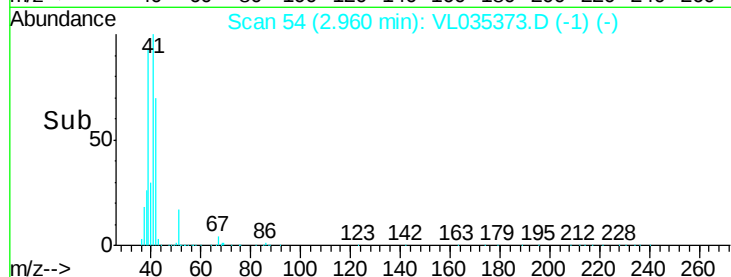
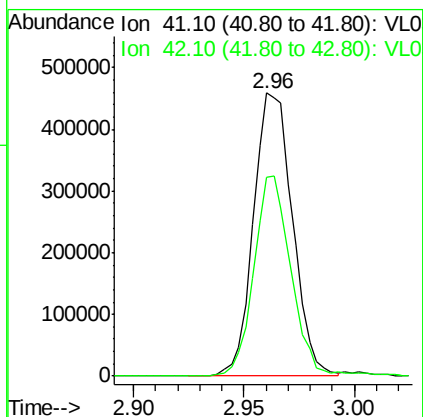
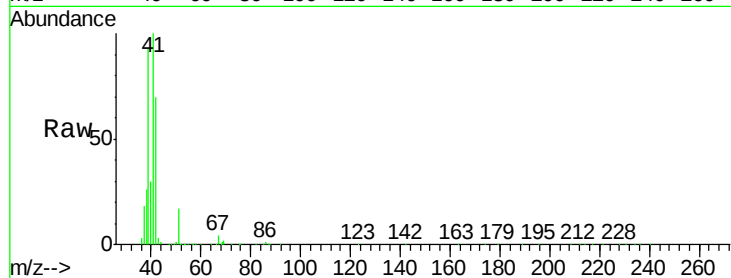
Ion Ratio Lower Upper

41 100

42 68.0 55.3 82.9

Manual Integrations  
APPROVED

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8/12/2020 3:58:22 PM



#10

Heptane

Concen: 11.801 ppbv

RT: 8.13 min Scan# 1661

Delta R.T. -0.00 min

Lab File: VL035373.D

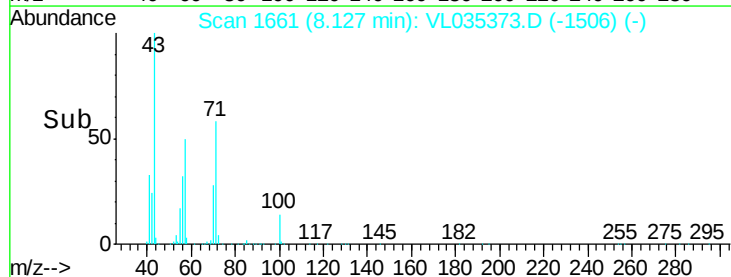
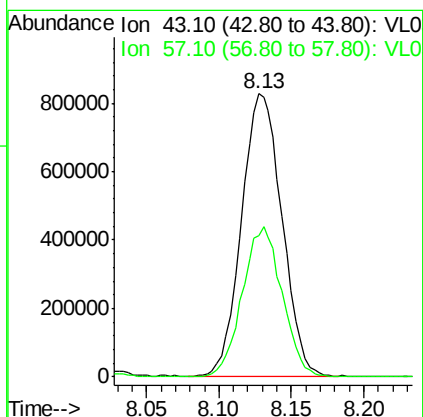
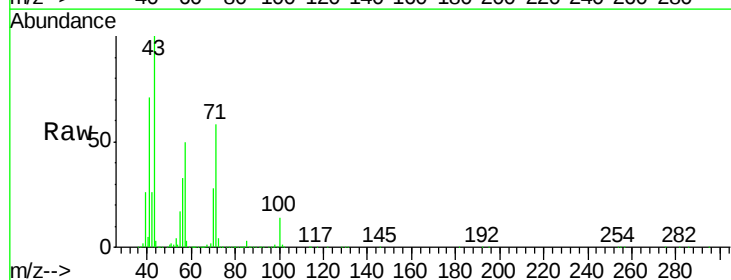
Acq: 10 Aug 2020 14:18

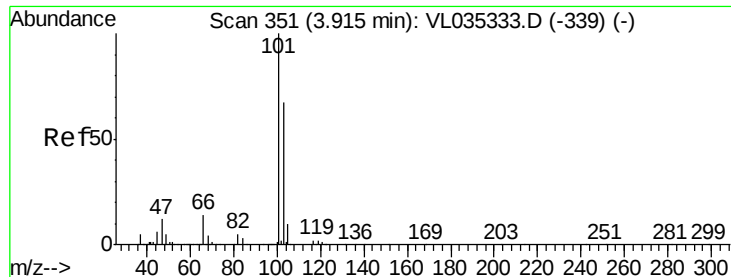
Tgt Ion: 43 Resp: 1601285

Ion Ratio Lower Upper

43 100

57 52.6 43.0 64.6





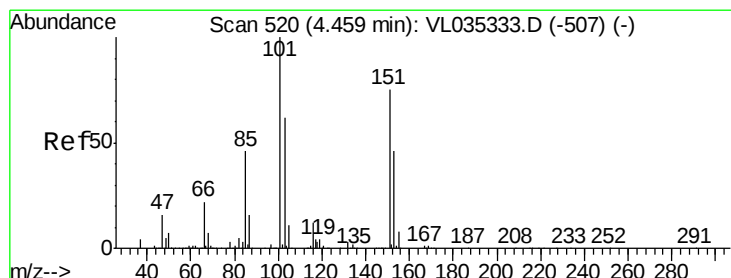
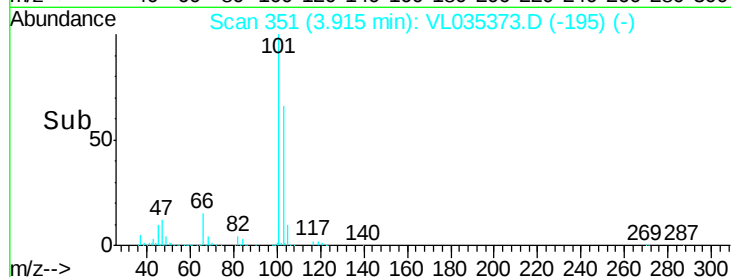
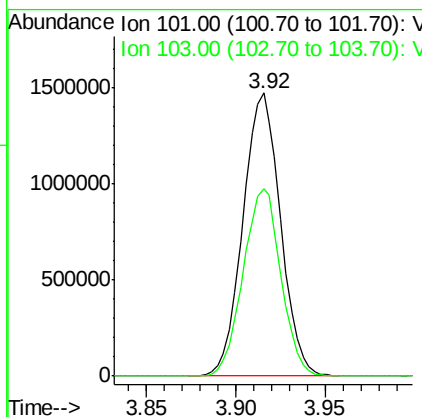
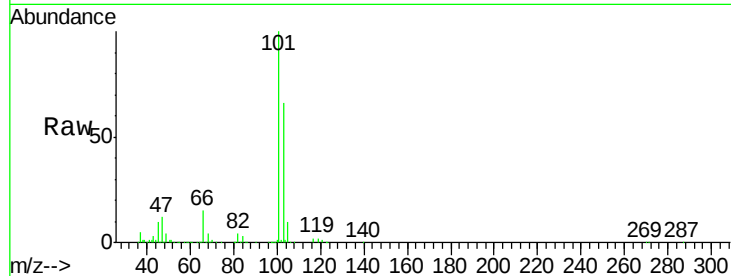
#11  
 Trichlorofluoromethane  
 Concen: 9.664 ppbv  
 RT: 3.92 min Scan# 351  
 Delta R.T. 0.00 min  
 Lab File: VL035373.D  
 Acq: 10 Aug 2020 14:18

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0810ABS01

Tot Ion:101 Resp: 2174883  
 Ion Ratio Lower Upper  
 101 100  
 103 66.1 53.8 80.8

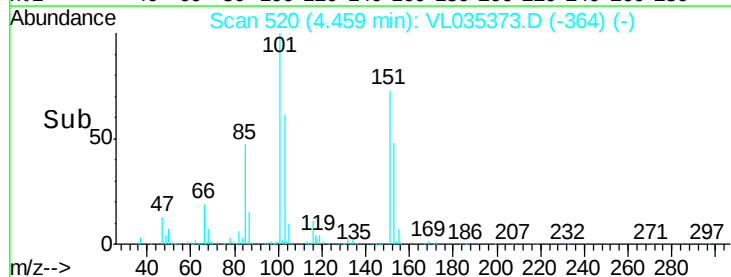
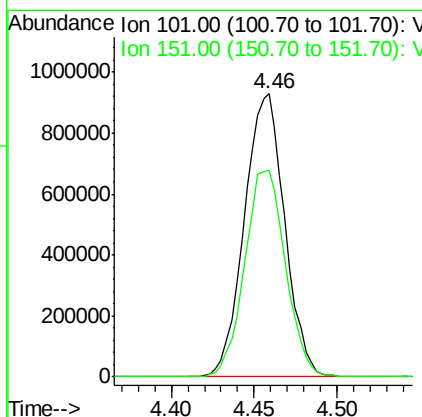
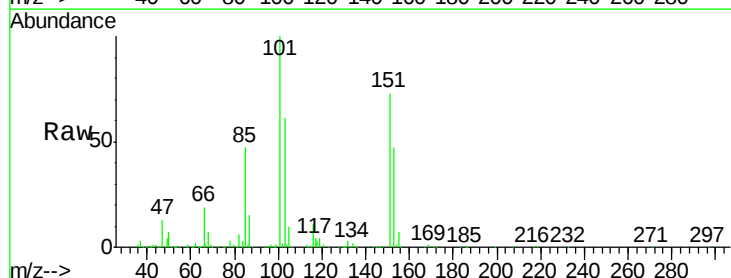
Manual Integrations  
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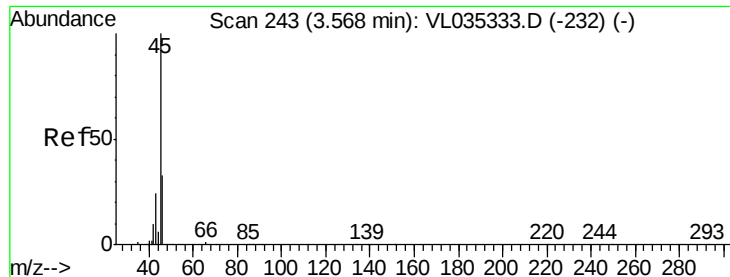
MMDadoda  
 8/12/2020 3:58:22 PM



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 9.779 ppbv  
 RT: 4.46 min Scan# 520  
 Delta R.T. 0.00 min  
 Lab File: VL035373.D  
 Acq: 10 Aug 2020 14:18

Tgt Ion:101 Resp: 1573094  
 Ion Ratio Lower Upper  
 101 100  
 151 74.0 59.5 89.3





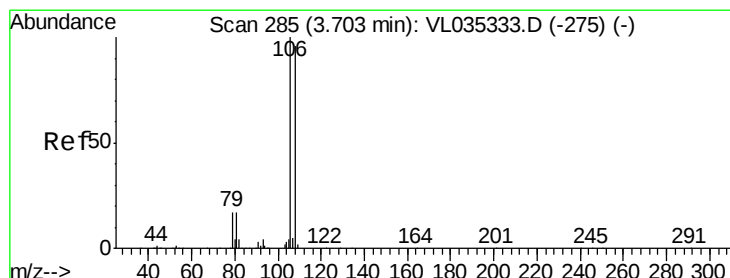
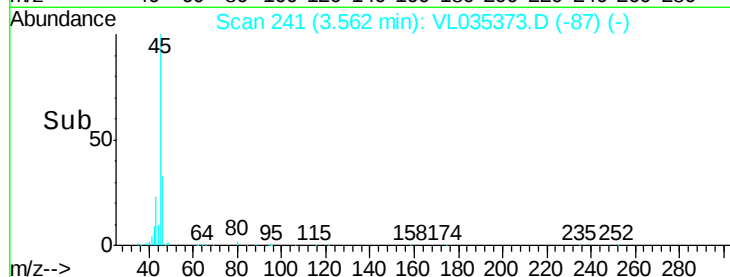
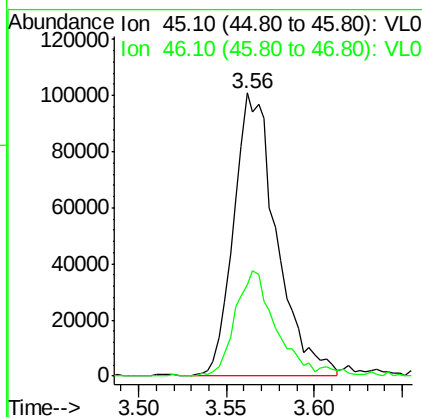
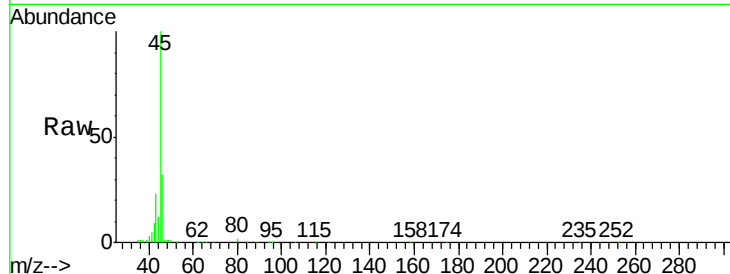
#13  
Ethanol  
Concen: 9.336 ppbv m  
RT: 3.56 min Scan# 241  
Delta R.T. -0.01 min  
Lab File: VL035373.D  
Acq: 10 Aug 2020 14:18

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0810ABS01

Tot Ion: 45 Resp: 171050  
Ion Ratio Lower Upper  
45 100  
46 0.0 15.2 61.0#

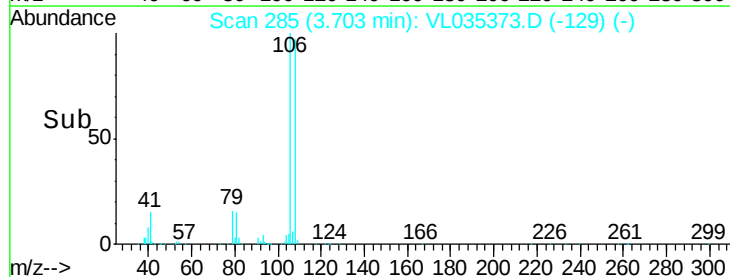
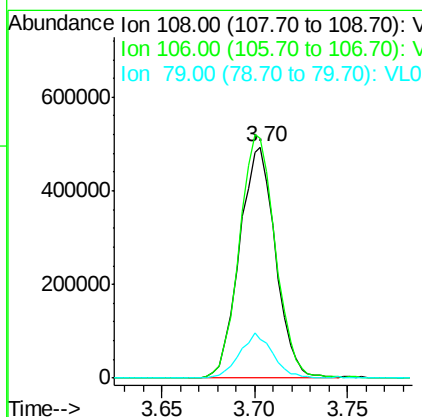
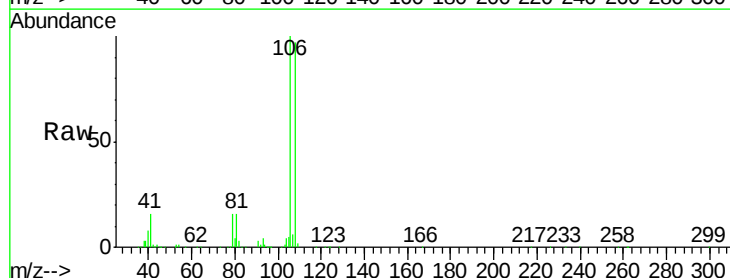
Manual Integrations  
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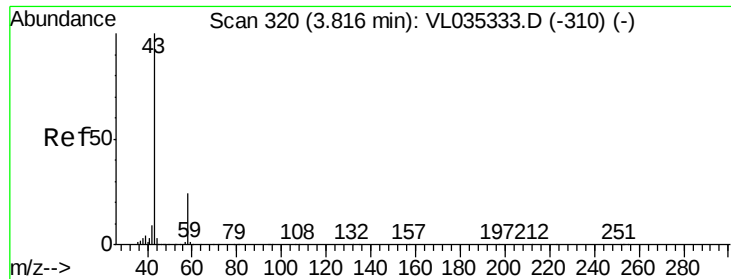
MMDadoda  
8/12/2020 3:58:22 PM



#14  
Bromoethene  
Concen: 10.331 ppbv  
RT: 3.70 min Scan# 285  
Delta R.T. 0.00 min  
Lab File: VL035373.D  
Acq: 10 Aug 2020 14:18

Tgt Ion: 108 Resp: 666386  
Ion Ratio Lower Upper  
108 100  
106 105.8 85.0 127.6  
79 18.3 15.0 22.6





#15

Acetone

Concen: 8.782 ppbv

RT: 3.81 min Scan# 319

Delta R.T. -0.00 min

Lab File: VL035373.D

Acq: 10 Aug 2020 14:18

Instrument :

MSVOA\_L

ClientSampleId :

VL0810ABS01

Tot Ion: 43 Resp: 1628625

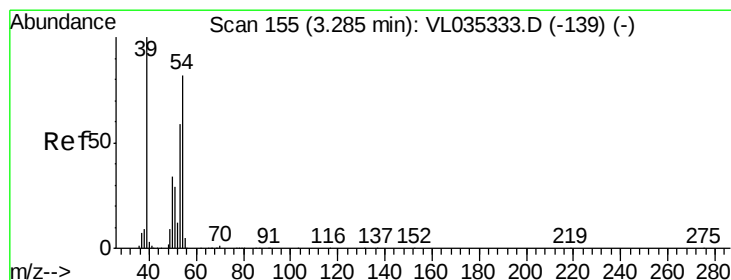
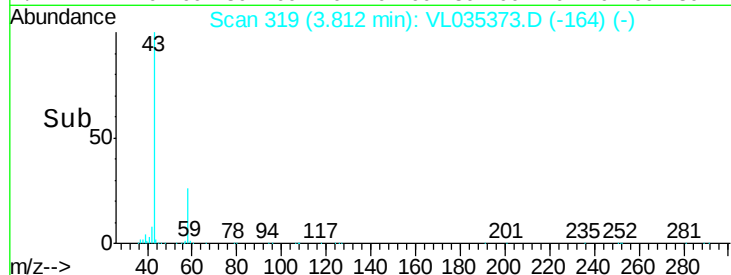
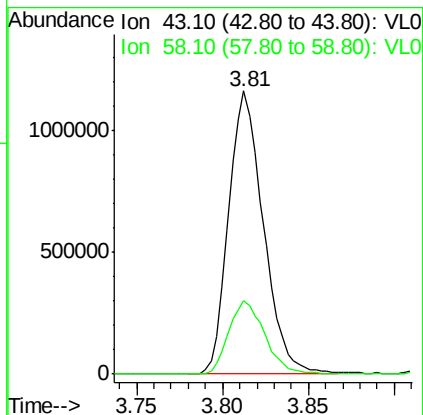
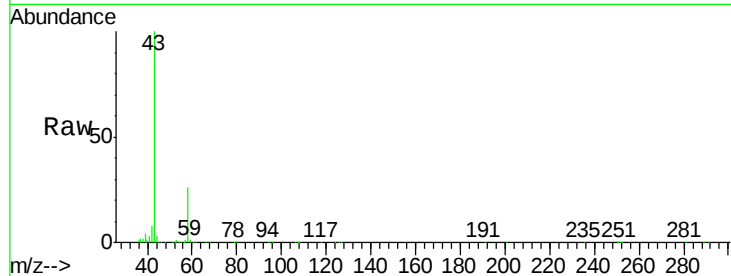
Ion Ratio Lower Upper

43 100

58 27.1 21.0 31.4

Manual Integrations  
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8/12/2020 3:58:22 PM



#16

1,3-Butadiene

Concen: 10.576 ppbv

RT: 3.29 min Scan# 155

Delta R.T. 0.00 min

Lab File: VL035373.D

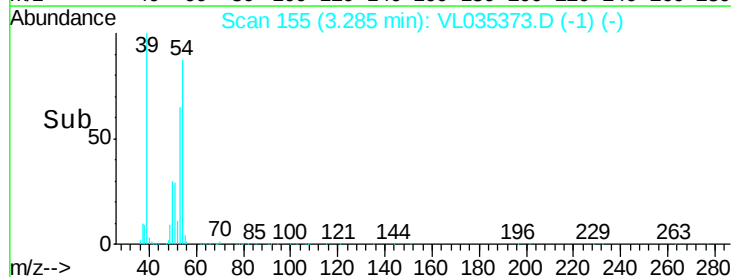
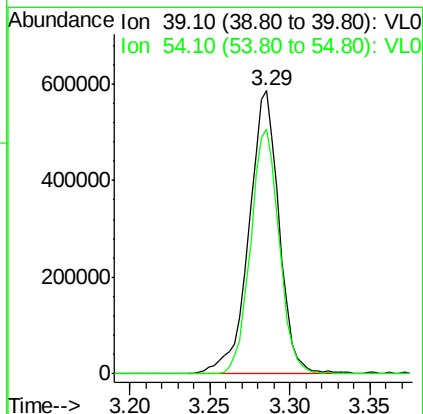
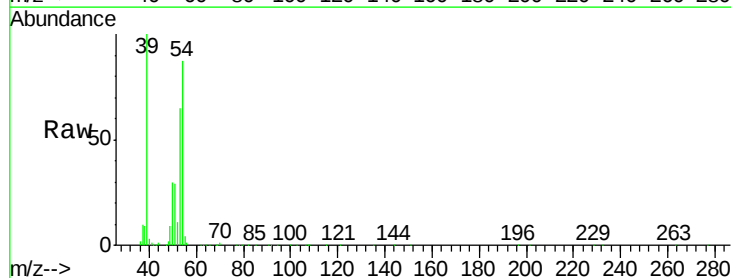
Acq: 10 Aug 2020 14:18

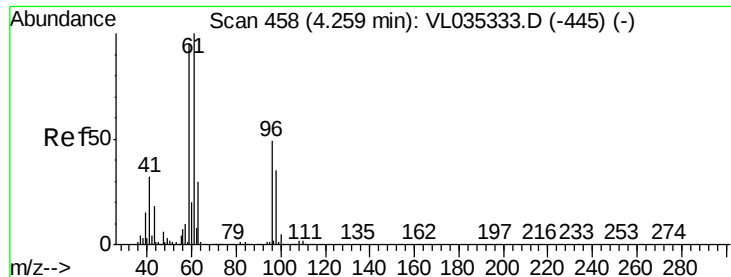
Tgt Ion: 39 Resp: 754936

Ion Ratio Lower Upper

39 100

54 82.2 64.4 96.6





#17

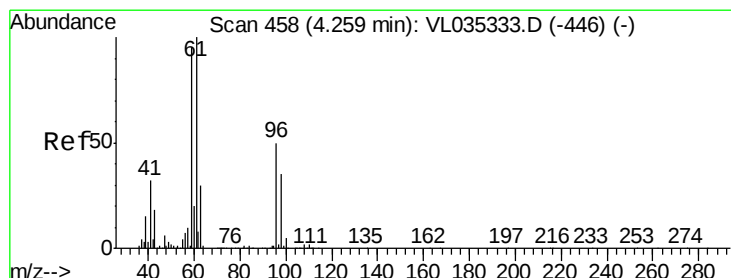
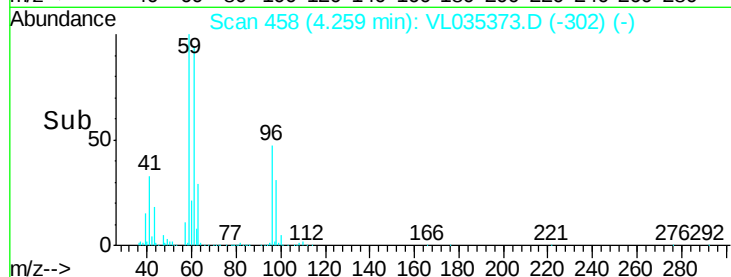
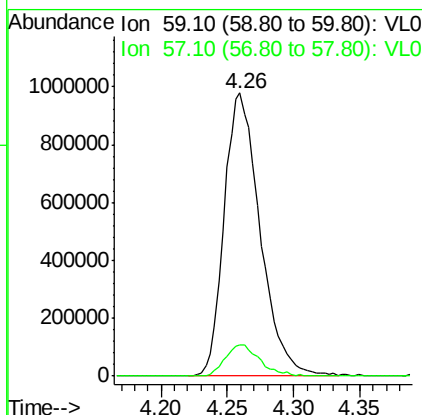
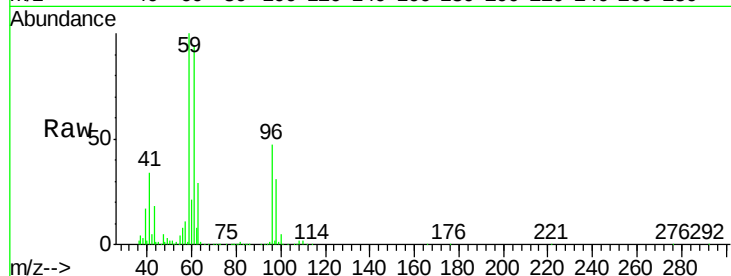
tert-Butyl alcohol  
Concen: 10.807 ppbv  
RT: 4.26 min Scan# 458  
Delta R.T. 0.00 min  
Lab File: VL035373.D  
Acq: 10 Aug 2020 14:18

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0810ABS01

Tot Ion: 59 Resp: 1839556  
Ion Ratio Lower Upper  
59 100  
57 10.9 8.8 13.2

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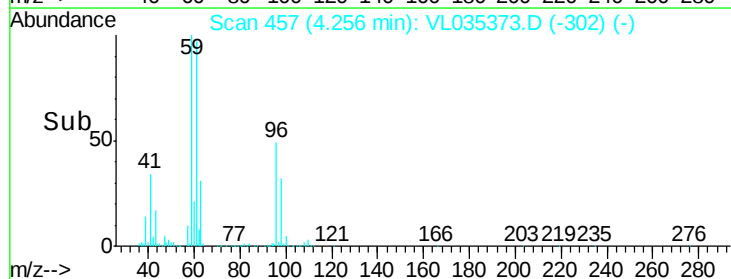
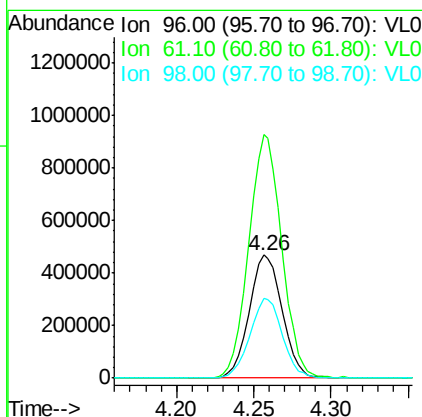
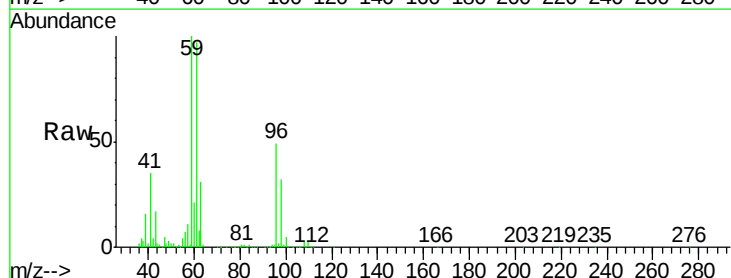
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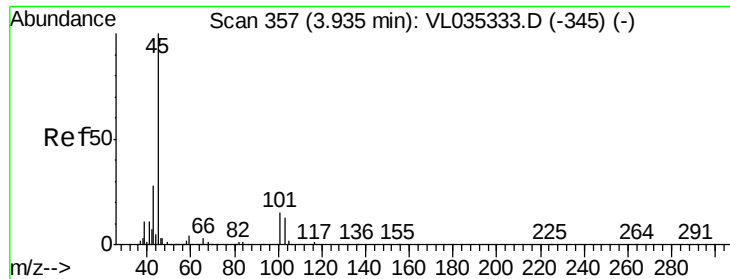


#18

1,1-Dichloroethene  
Concen: 10.096 ppbv  
RT: 4.26 min Scan# 457  
Delta R.T. -0.00 min  
Lab File: VL035373.D  
Acq: 10 Aug 2020 14:18

Tgt Ion: 96 Resp: 697376  
Ion Ratio Lower Upper  
96 100  
61 198.4 161.4 242.2  
98 64.9 56.0 84.0





#19

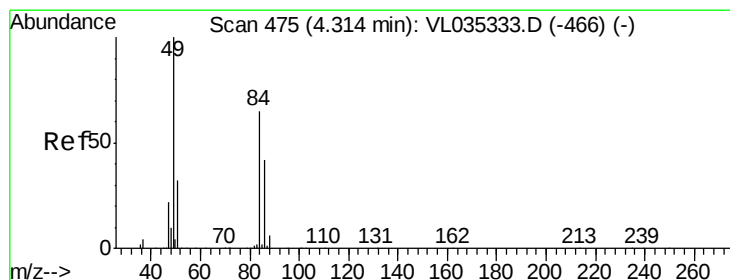
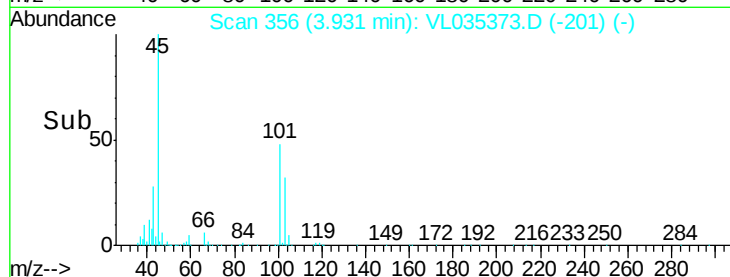
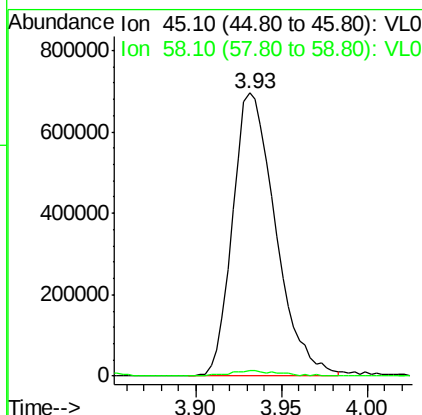
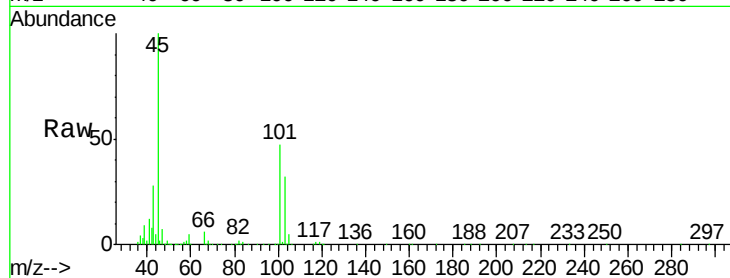
Isopropyl Alcohol  
 Concen: 10.285 ppbv  
 RT: 3.93 min Scan# 356  
 Delta R.T. -0.00 min  
 Lab File: VL035373.D  
 Acq: 10 Aug 2020 14:18

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0810ABS01

Tot Ion: 45 Resp: 1209034  
 Ion Ratio Lower Upper  
 45 100  
 58 2.7 1.9 2.9

Manual Integrations  
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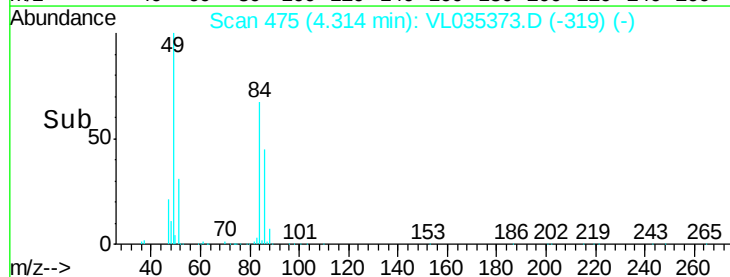
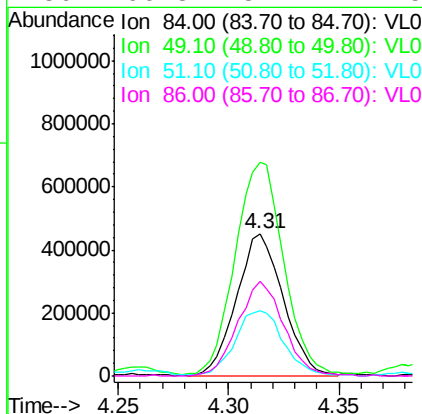
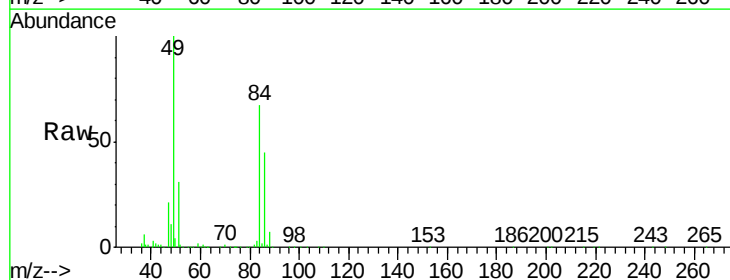
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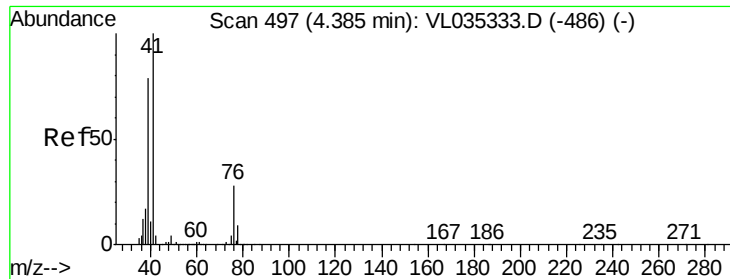


#20

Methylene Chloride  
 Concen: 8.762 ppbv  
 RT: 4.31 min Scan# 475  
 Delta R.T. 0.00 min  
 Lab File: VL035373.D  
 Acq: 10 Aug 2020 14:18

Tgt Ion: 84 Resp: 662654  
 Ion Ratio Lower Upper  
 84 100  
 49 149.0 122.8 184.2  
 51 45.2 40.1 60.1  
 86 66.8 51.7 77.5





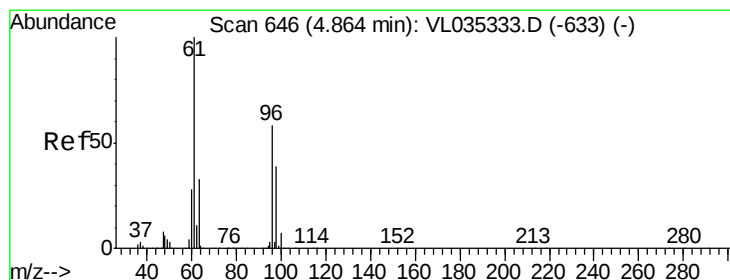
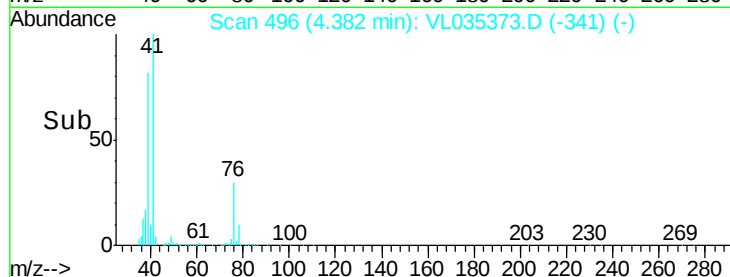
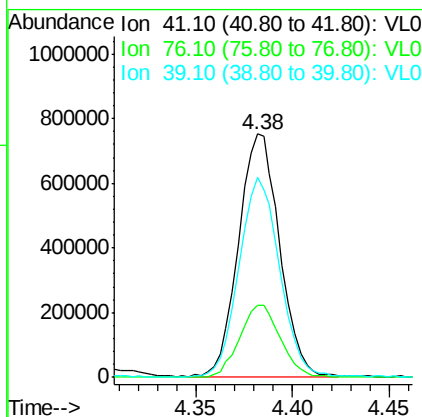
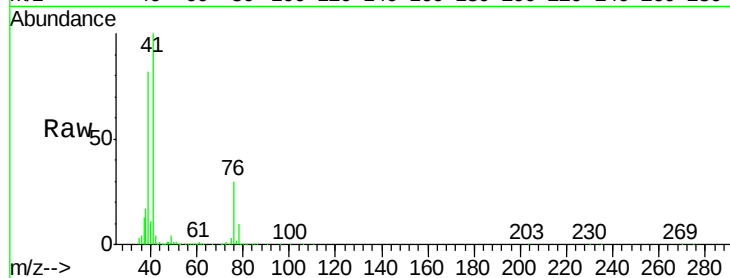
#21  
Allvl Chloride  
Concen: 10.380 ppbv  
RT: 4.38 min Scan# 496  
Delta R.T. -0.00 min  
Lab File: VL035373.D  
Acq: 10 Aug 2020 14:18

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0810ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 76      | 29.7  | 23.8  | 35.6  |
| 39      | 82.2  | 65.0  | 97.6  |

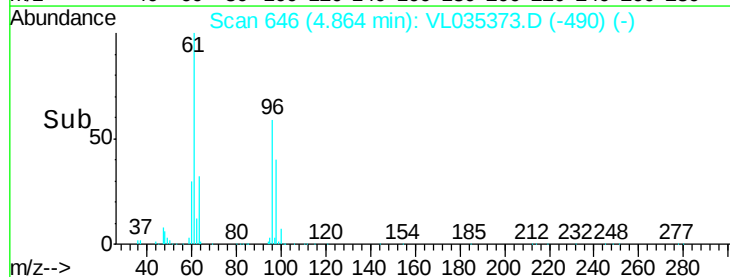
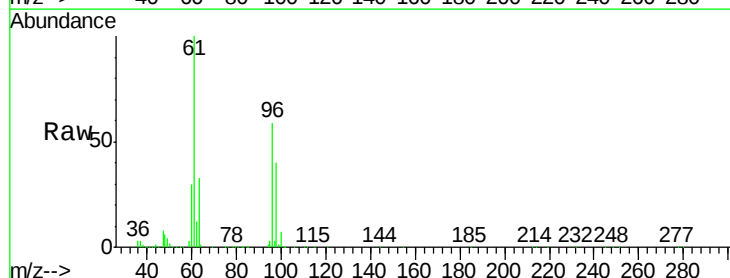
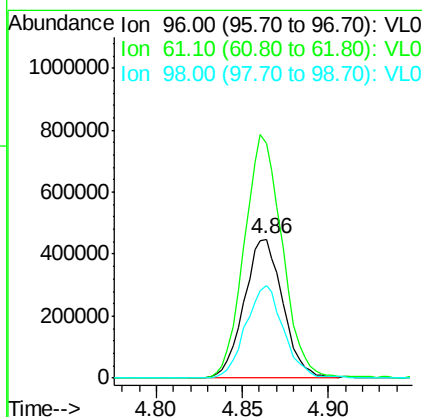
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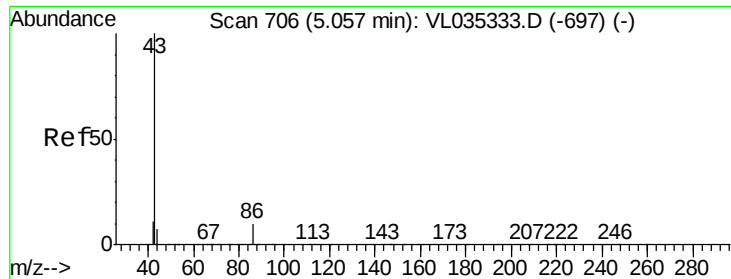
MMDadoda  
8/12/2020 3:58:22 PM



#22  
trans-1,2-Dichloroethene  
Concen: 10.413 ppbv  
RT: 4.86 min Scan# 646  
Delta R.T. 0.00 min  
Lab File: VL035373.D  
Acq: 10 Aug 2020 14:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 168.7 | 138.5 | 207.7 |
| 98      | 67.0  | 54.3  | 81.5  |





#23

Vinyl Acetate

Concen: 11.188 ppbv

RT: 5.06 min Scan# 706

Delta R.T. 0.00 min

Lab File: VL035373.D

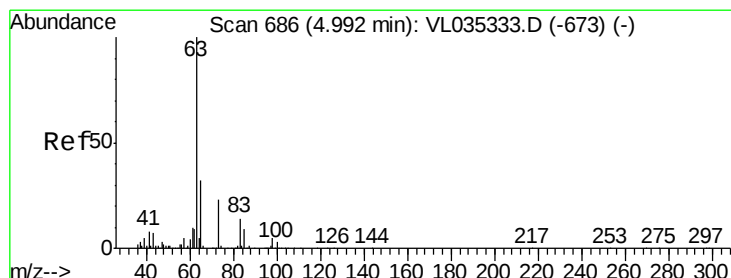
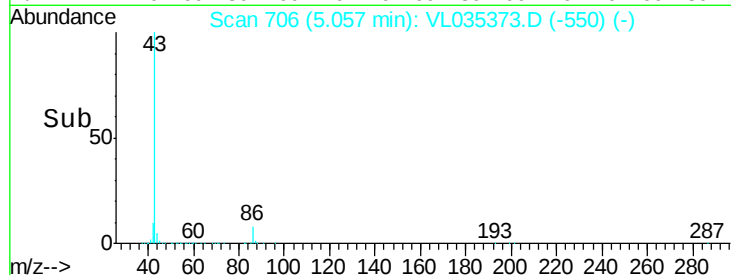
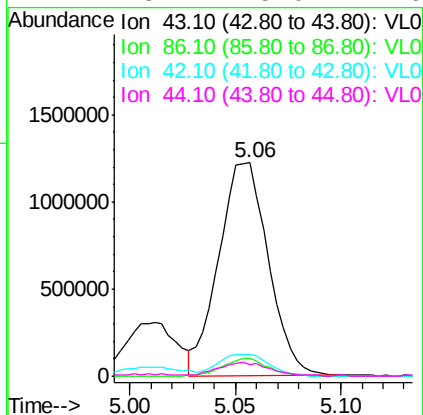
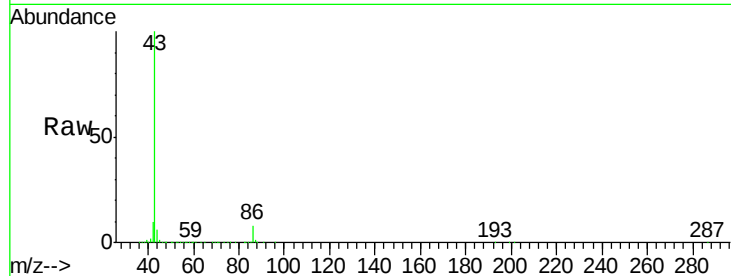
Acq: 10 Aug 2020 14:18

| Tot Ion | 43    | Resp  | 1989623 |
|---------|-------|-------|---------|
| Ion     | Ratio | Lower | Upper   |
| 43      | 100   |       |         |
| 86      | 8.4   | 6.9   | 10.3    |
| 42      | 9.9   | 8.8   | 13.2    |
| 44      | 5.2   | 5.0   | 7.6     |

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0810ABS01

Manual Integrations  
APPROVED

MMDadoda  
8/12/2020 3:58:22 PM



#24

1,1-Dichloroethane

Concen: 10.069 ppbv

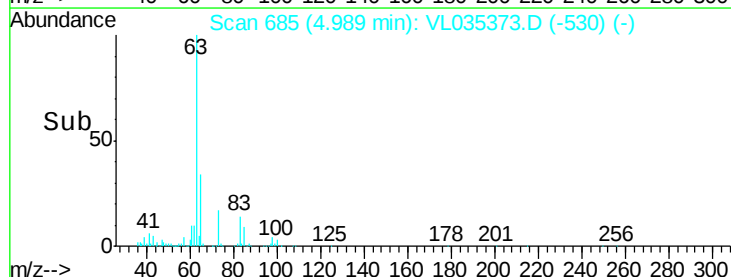
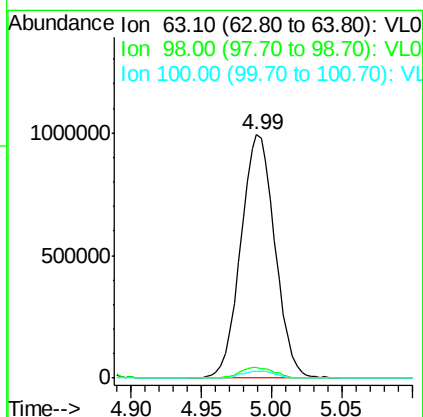
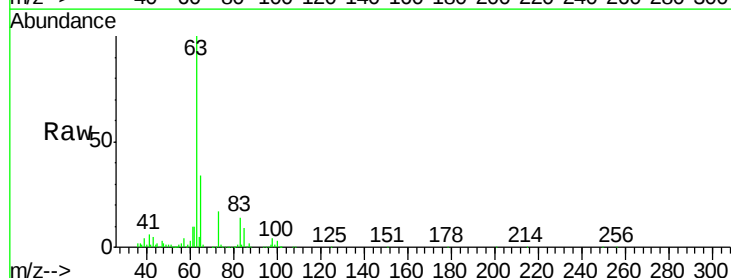
RT: 4.99 min Scan# 685

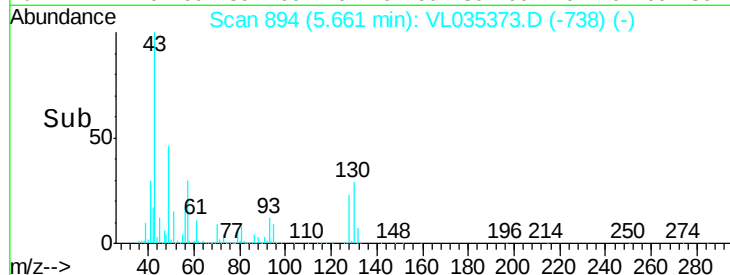
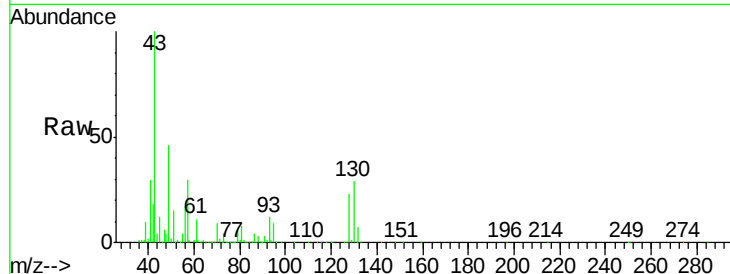
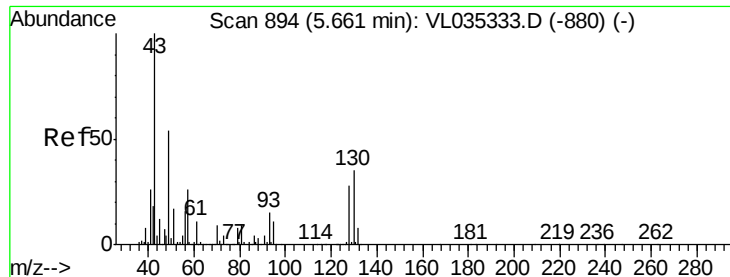
Delta R.T. -0.00 min

Lab File: VL035373.D

Acq: 10 Aug 2020 14:18

| Tgt Ion | 63    | Resp  | 1682754 |
|---------|-------|-------|---------|
| Ion     | Ratio | Lower | Upper   |
| 63      | 100   |       |         |
| 98      | 4.1   | 2.5   | 7.5     |
| 100     | 3.0   | 1.4   | 4.2     |





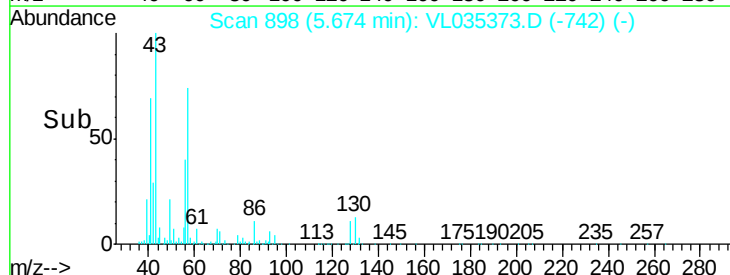
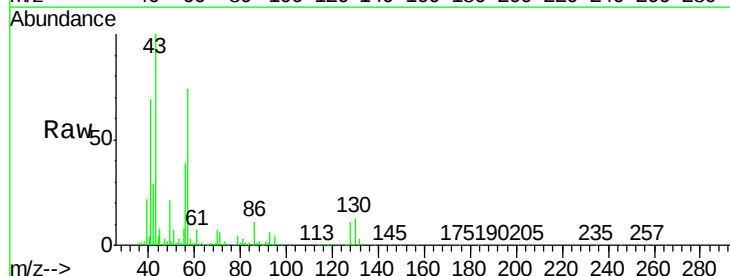
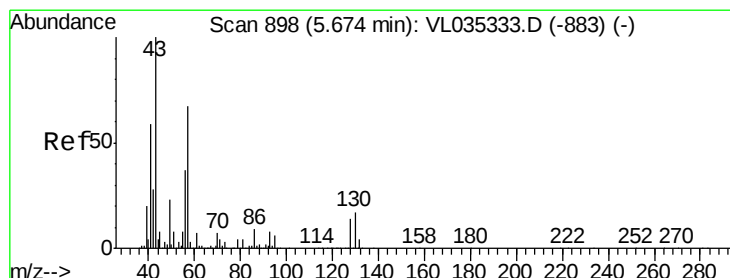
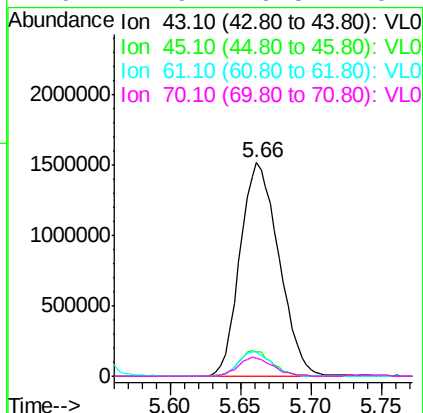
#25  
Ethyl Acetate  
Concen: 10.377 ppbv  
RT: 5.66 min Scan# 894  
Delta R.T. 0.00 min  
Lab File: VL035373.D  
Acq: 10 Aug 2020 14:18

| Tot Ion | 43    | Resp  | 2924133 |
|---------|-------|-------|---------|
| Ion     | Ratio | Lower | Upper   |
| 43      | 100   |       |         |
| 45      | 10.4  | 8.5   | 12.7    |
| 61      | 9.8   | 8.1   | 12.1    |
| 70      | 7.9   | 6.5   | 9.7     |

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0810ABS01

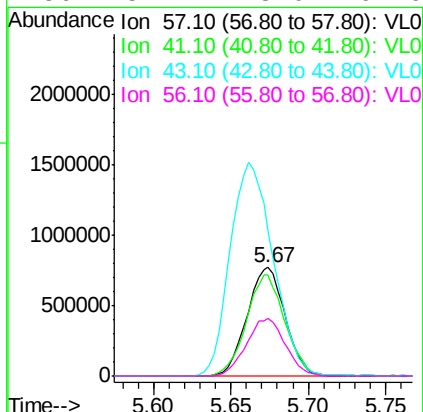
Manual Integrations  
APPROVED

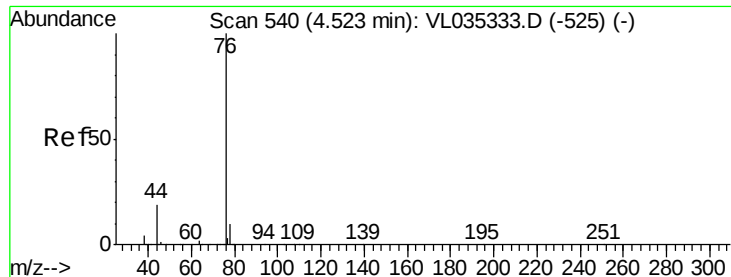
MMDadoda  
8/12/2020 3:58:22 PM



#26  
Hexane  
Concen: 10.785 ppbv  
RT: 5.67 min Scan# 898  
Delta R.T. 0.00 min  
Lab File: VL035373.D  
Acq: 10 Aug 2020 14:18

| Tgt Ion | 57    | Resp  | 1318251 |
|---------|-------|-------|---------|
| Ion     | Ratio | Lower | Upper   |
| 57      | 100   |       |         |
| 41      | 96.0  | 75.2  | 112.8   |
| 43      | 223.1 | 180.6 | 270.8   |
| 56      | 54.1  | 43.0  | 64.6    |





#27

Carbon Disulfide

Concen: 10.705 ppbv

RT: 4.52 min Scan# 539

Delta R.T. -0.00 min

Lab File: VL035373.D

Acq: 10 Aug 2020 14:18

Instrument :

MSVOA\_L

ClientSampleId :

VL0810ABS01

Tot Ion: 76 Resp: 1829638

Ion Ratio Lower Upper

76 100

44 18.8 15.4 23.2

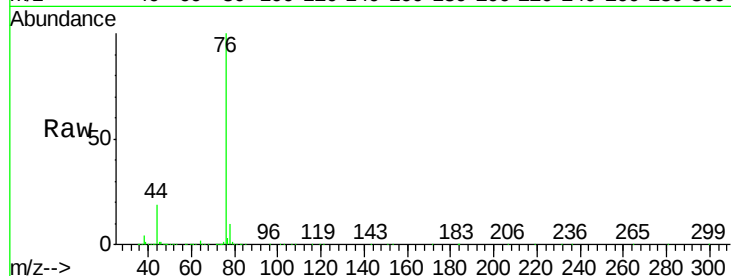
78 9.5 7.7 11.5

Manual Integrations

APPROVED

MMDadoda

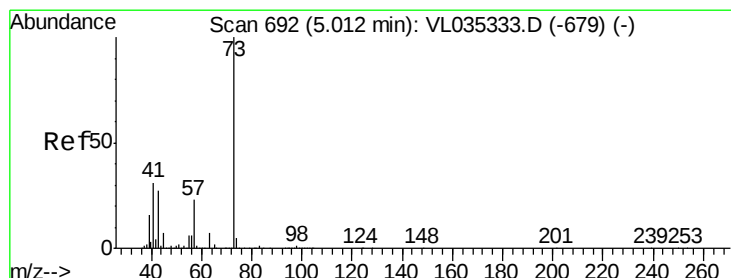
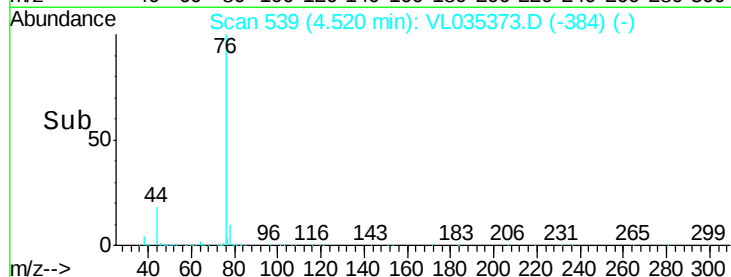
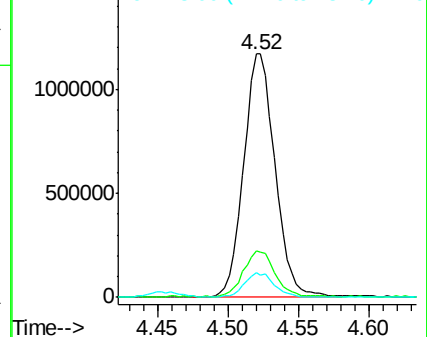
8/12/2020 3:58:22 PM



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 11.191 ppbv

RT: 5.01 min Scan# 691

Delta R.T. -0.00 min

Lab File: VL035373.D

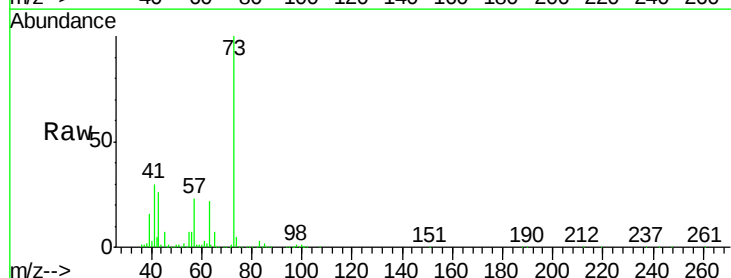
Acq: 10 Aug 2020 14:18

Tgt Ion: 73 Resp: 1989025

Ion Ratio Lower Upper

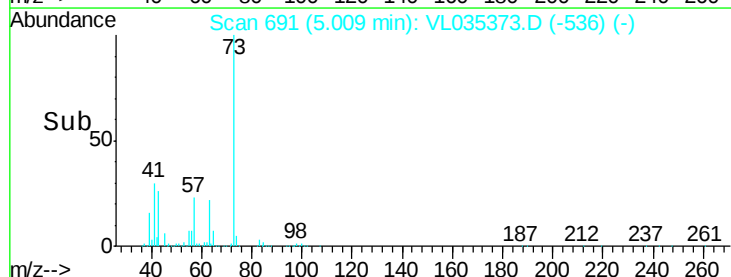
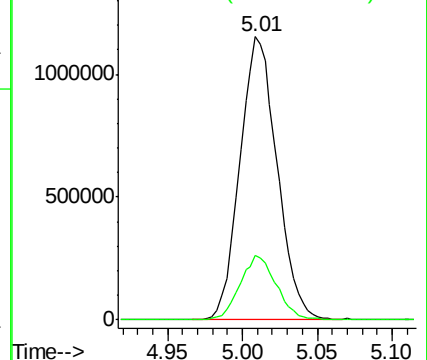
73 100

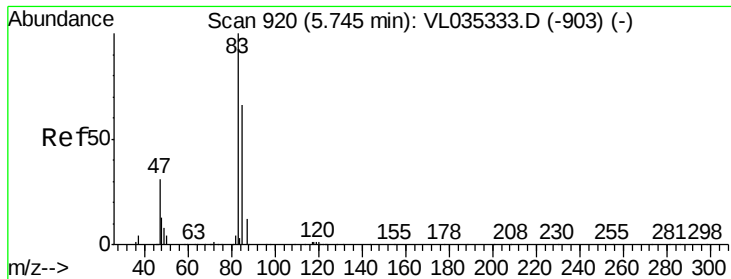
57 22.3 17.9 26.9



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





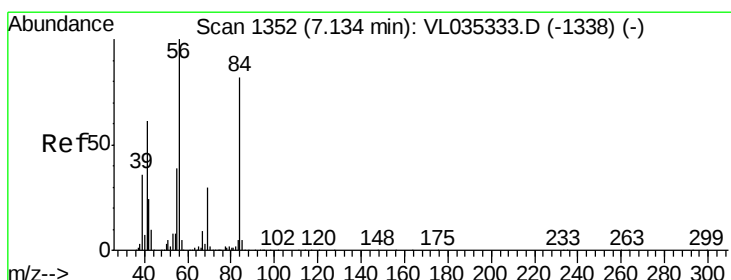
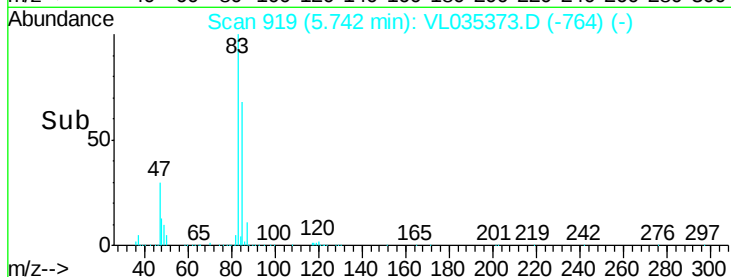
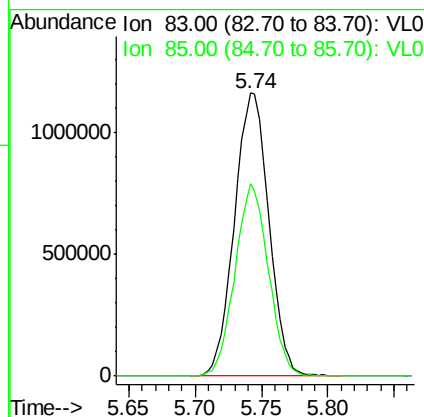
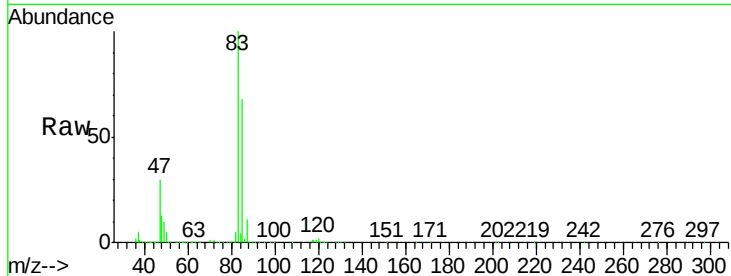
#29  
Chloroform  
Concen: 9.924 ppbv  
RT: 5.74 min Scan# 919  
Delta R.T. -0.00 min  
Lab File: VL035373.D  
Acq: 10 Aug 2020 14:18

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0810ABS01

Tot Ion: 83 Resp: 2091205  
Ion Ratio Lower Upper  
83 100  
85 68.1 52.9 79.3

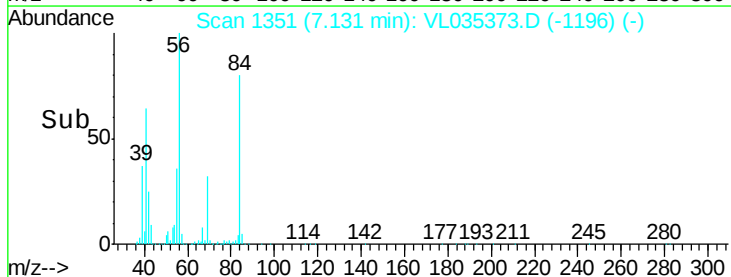
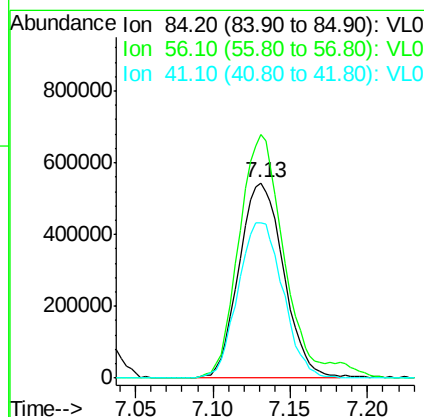
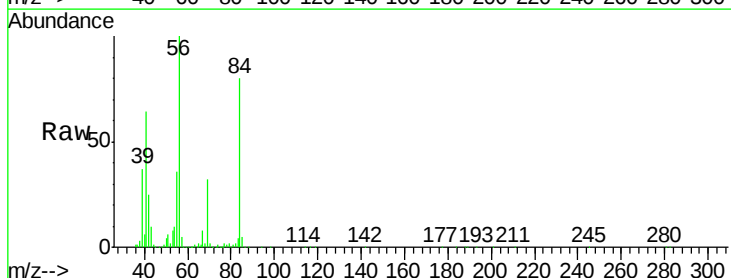
Manual Integrations  
APPROVED

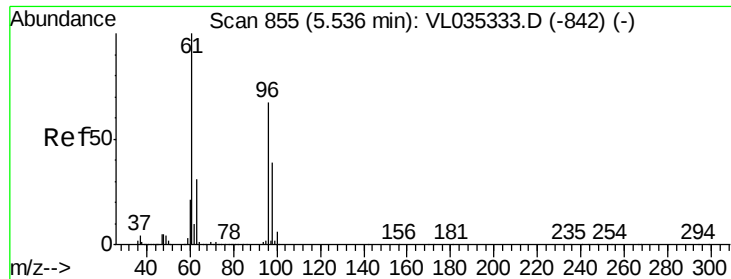
MMDadoda  
8/12/2020 3:58:22 PM



#30  
Cyclohexane  
Concen: 11.715 ppbv  
RT: 7.13 min Scan# 1351  
Delta R.T. -0.00 min  
Lab File: VL035373.D  
Acq: 10 Aug 2020 14:18

Tgt Ion: 84 Resp: 1085787  
Ion Ratio Lower Upper  
84 100  
56 129.2 104.7 157.1  
41 80.7 64.2 96.2





#31

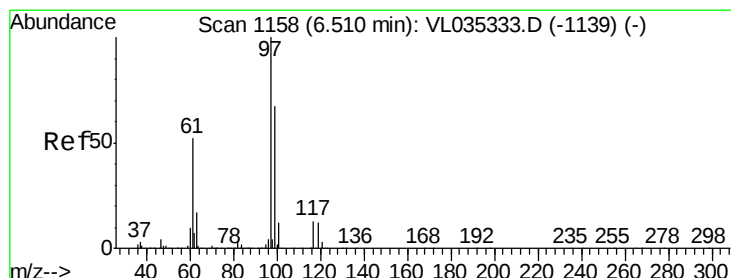
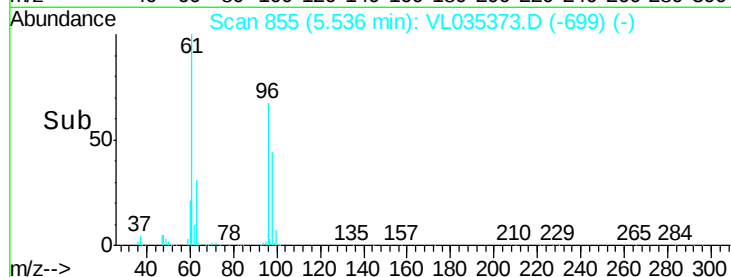
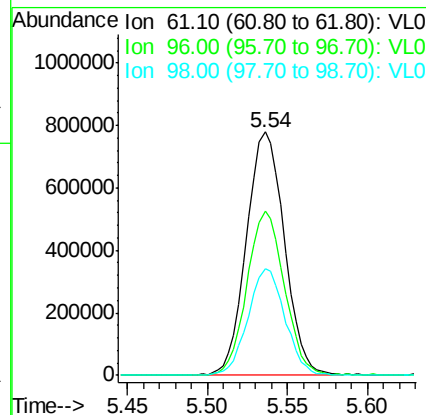
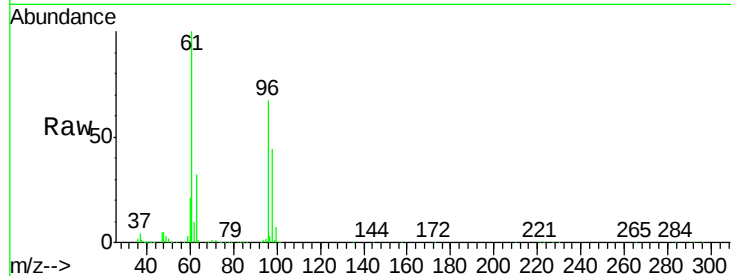
cis-1,2-Dichloroethene  
Concen: 11.564 ppbv  
RT: 5.54 min Scan# 855  
Delta R.T. 0.00 min  
Lab File: VL035373.D  
Acq: 10 Aug 2020 14:18

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0810ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 61      | 100   |       |       |
| 96      | 67.3  | 53.6  | 80.4  |
| 98      | 43.9  | 31.0  | 46.4  |

Manual Integrations  
APPROVED

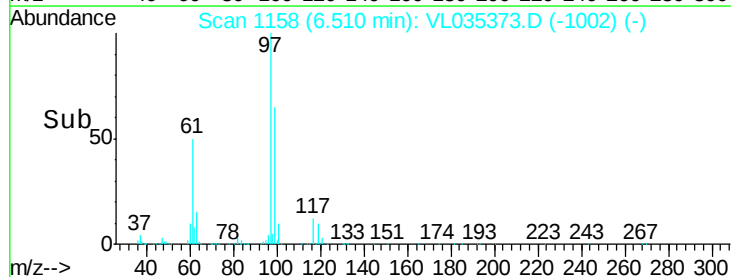
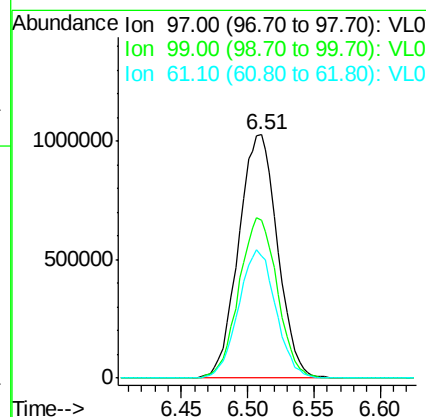
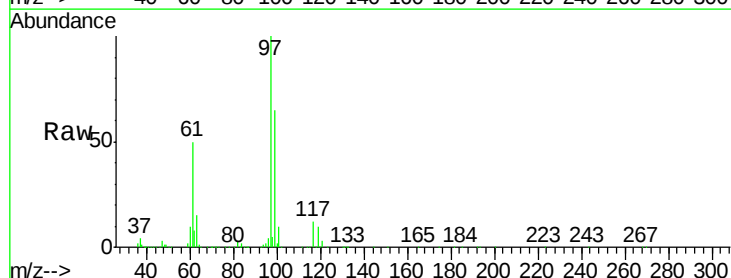
MMDadoda  
8/12/2020 3:58:22 PM

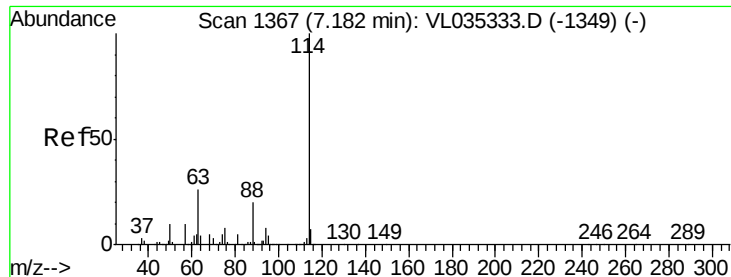


#32

1,1,1-Trichloroethane  
Concen: 9.439 ppbv  
RT: 6.51 min Scan# 1158  
Delta R.T. 0.00 min  
Lab File: VL035373.D  
Acq: 10 Aug 2020 14:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 64.9  | 52.2  | 78.4  |
| 61      | 50.6  | 40.9  | 61.3  |





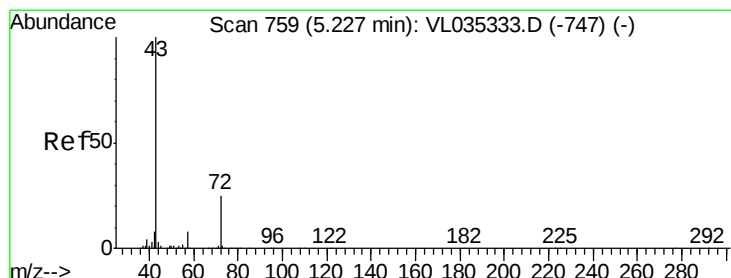
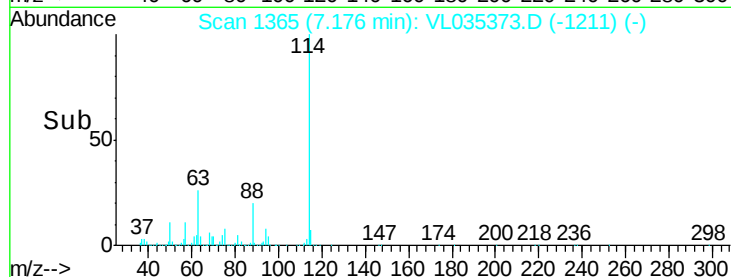
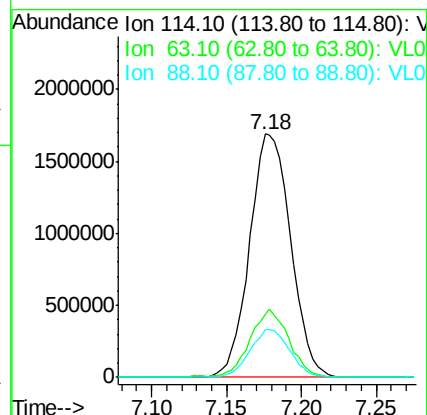
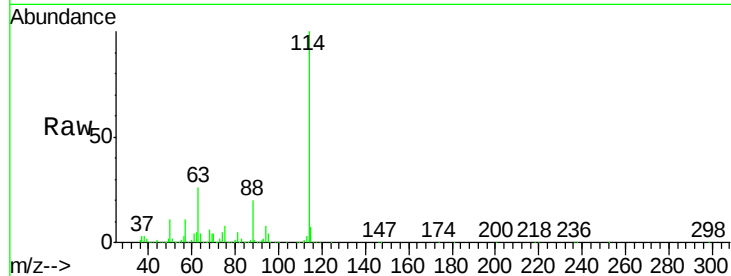
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.18 min Scan# 1365  
 Delta R.T. -0.01 min  
 Lab File: VL035373.D  
 Acq: 10 Aug 2020 14:18

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0810ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 26.6  | 21.3  | 31.9  |
| 88      | 19.1  | 15.3  | 22.9  |

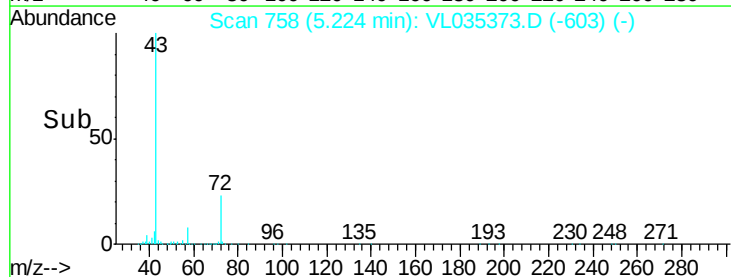
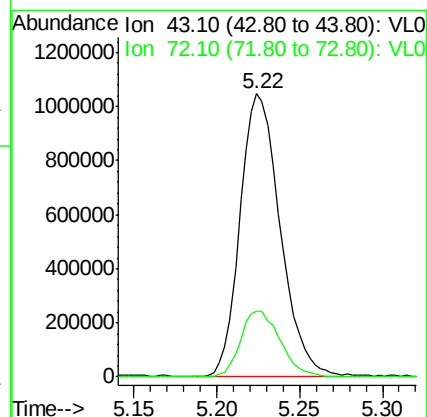
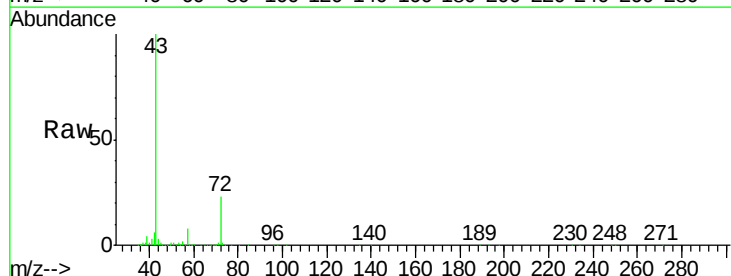
Manual Integrations  
 APPROVED

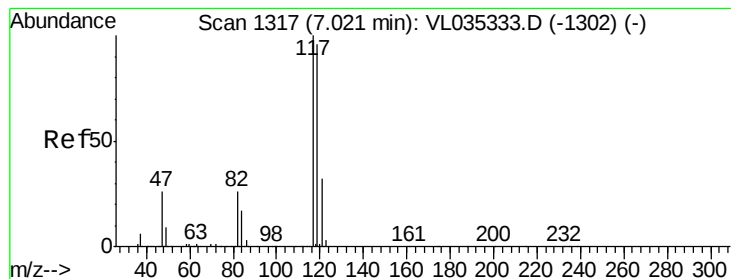
MMDadoda  
 8/12/2020 3:58:22 PM



#34  
 2-Butanone  
 Concen: 11.063 ppbv  
 RT: 5.22 min Scan# 758  
 Delta R.T. -0.00 min  
 Lab File: VL035373.D  
 Acq: 10 Aug 2020 14:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 23.3  | 18.9  | 28.3  |





#35

Carbon Tetrachloride

Concen: 9.959 ppbv

RT: 7.02 min Scan# 1316

Delta R.T. -0.00 min

Lab File: VL035373.D

Acq: 10 Aug 2020 14:18

Instrument :

MSVOA\_L

ClientSampleId :

VL0810ABS01

Tot Ion:117 Resp: 2215195

Ion Ratio Lower Upper

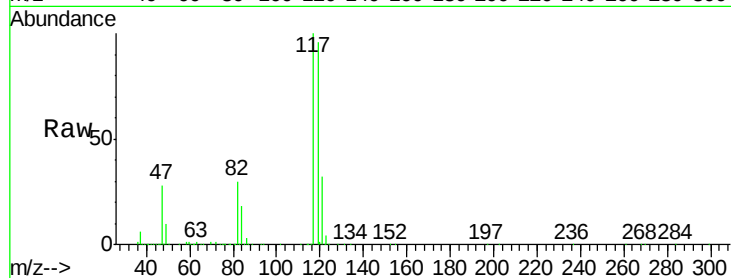
117 100

119 96.5 77.0 115.6

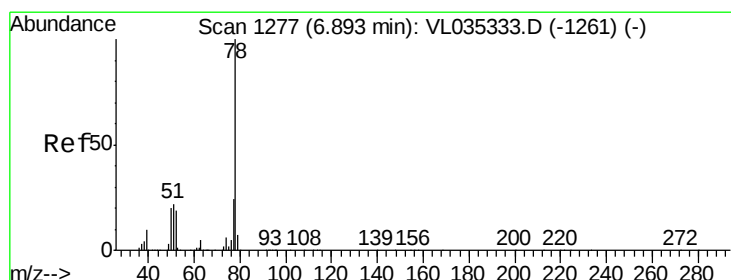
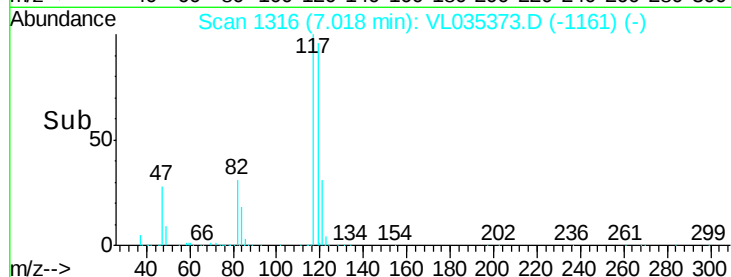
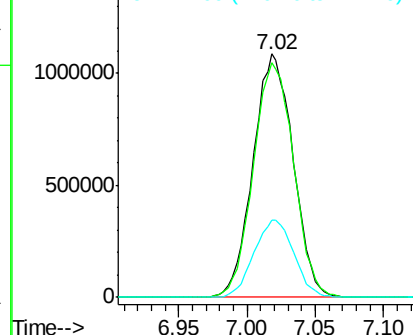
121 31.5 26.0 39.0

Manual Integrations  
APPROVED

MMDadoda  
8/12/2020 3:58:22 PM



Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 119.00 (118.70 to 119.70): V  
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 11.578 ppbv

RT: 6.89 min Scan# 1277

Delta R.T. 0.00 min

Lab File: VL035373.D

Acq: 10 Aug 2020 14:18

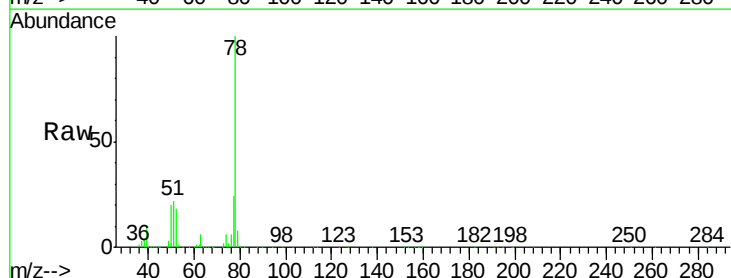
Tgt Ion: 78 Resp: 2527006

Ion Ratio Lower Upper

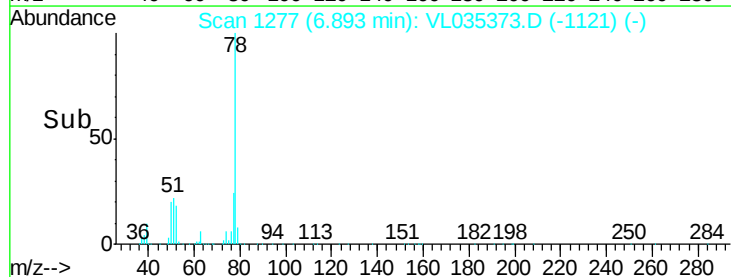
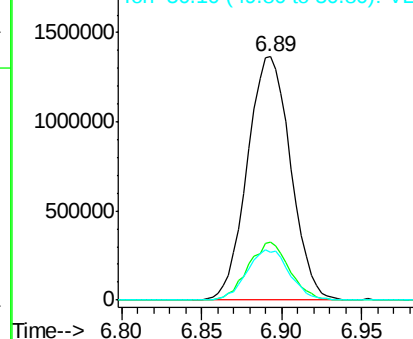
78 100

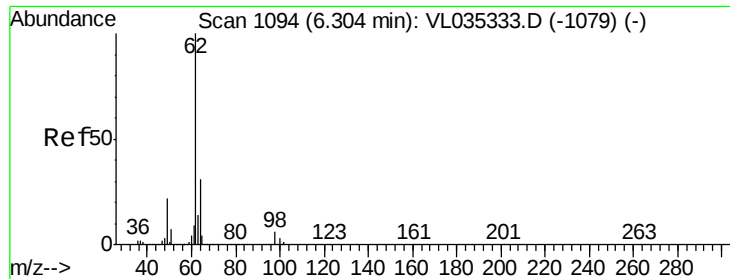
77 23.6 19.3 28.9

50 19.8 16.3 24.5



Abundance Ion 78.10 (77.80 to 78.80): VL0  
Ion 77.10 (76.80 to 77.80): VL0  
Ion 50.10 (49.80 to 50.80): VL0





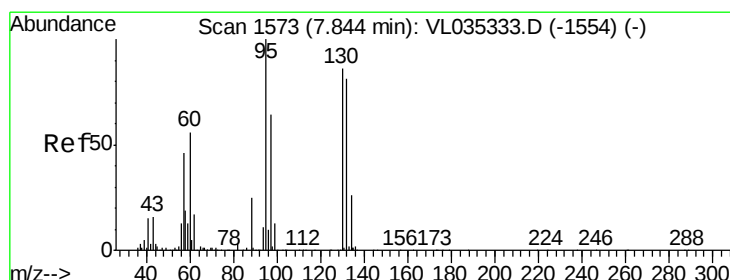
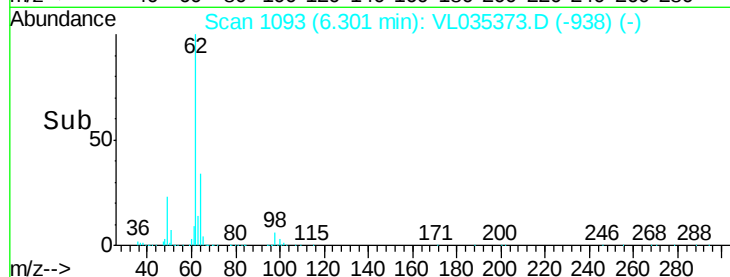
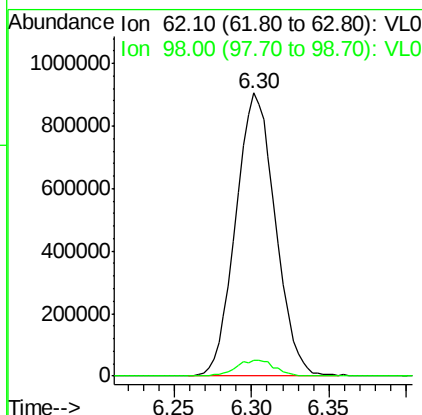
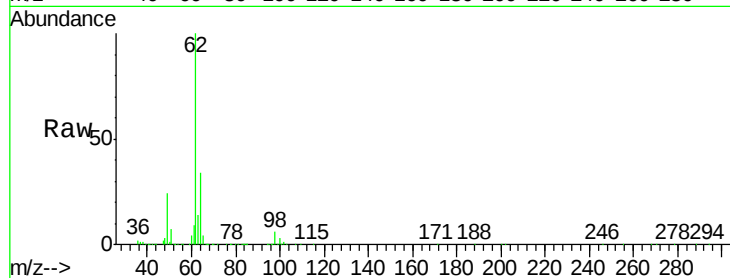
#37  
 1,2-Dichloroethane  
 Concen: 10.541 ppbv  
 RT: 6.30 min Scan# 1093  
 Delta R.T. -0.00 min  
 Lab File: VL035373.D  
 Acq: 10 Aug 2020 14:18

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0810ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 62      | 100   |       |       |
| 98      | 5.7   | 4.6   | 7.0   |

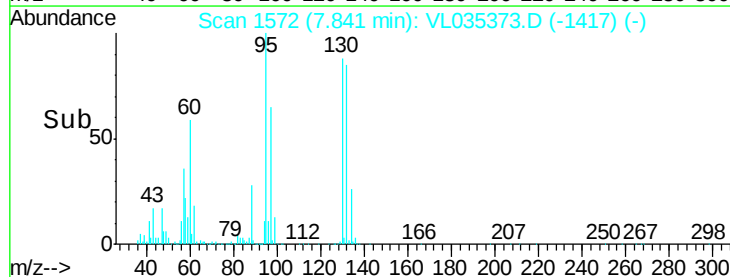
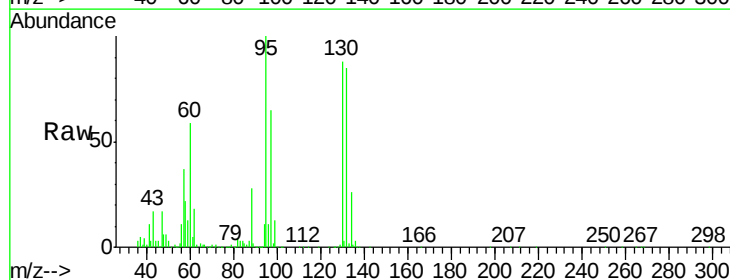
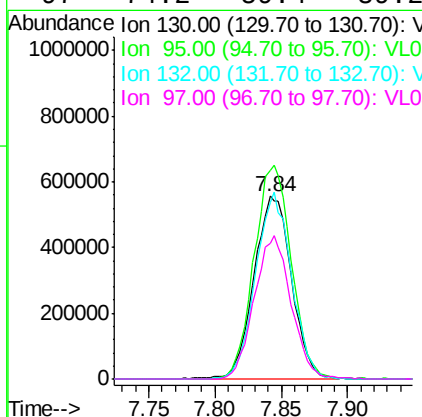
Manual Integrations  
 APPROVED

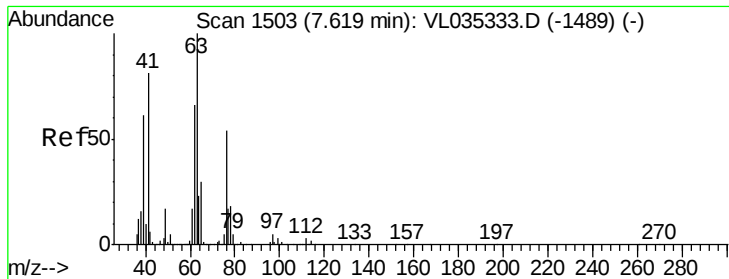
MMDadoda  
 8/12/2020 3:58:22 PM



#38  
 Trichloroethene  
 Concen: 10.859 ppbv  
 RT: 7.84 min Scan# 1572  
 Delta R.T. -0.00 min  
 Lab File: VL035373.D  
 Acq: 10 Aug 2020 14:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 130     | 100   |       |       |
| 95      | 114.3 | 93.4  | 140.2 |
| 132     | 97.2  | 76.1  | 114.1 |
| 97      | 74.2  | 59.4  | 89.2  |





#39

1,2-Dichloropropane

Concen: 10.951 ppbv

RT: 7.62 min Scan# 1504

Delta R.T. 0.00 min

Lab File: VL035373.D

Acq: 10 Aug 2020 14:18

Instrument :

MSVOA\_L

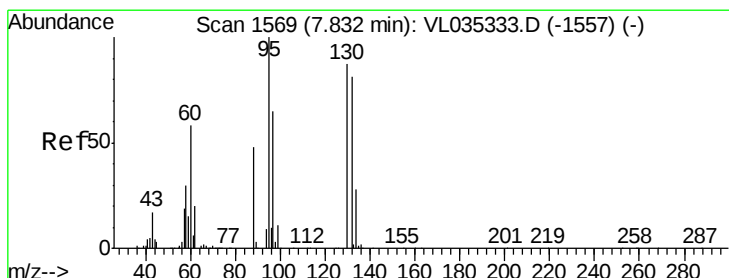
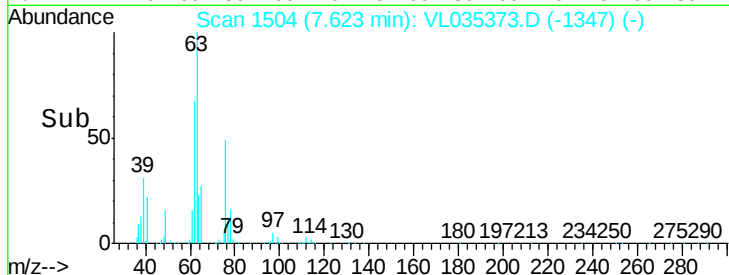
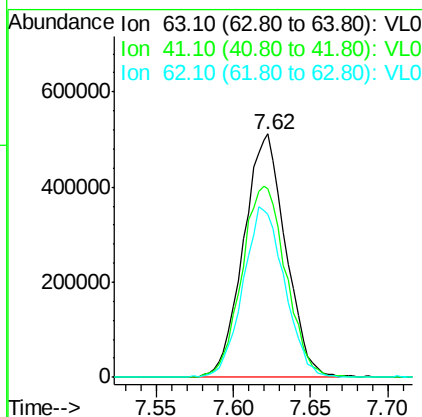
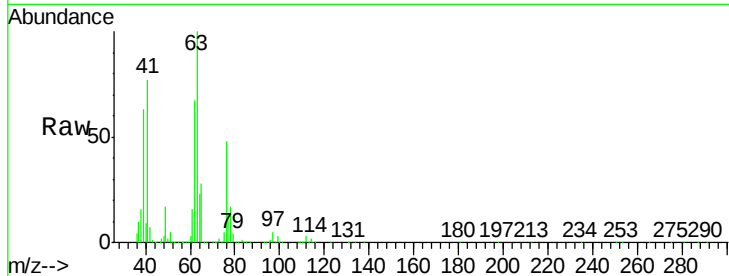
ClientSampleId :

VL0810ABS01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 63    | Resp: | 967640 |
| Ion Ratio | Lower | Upper |        |
| 63        | 100   |       |        |
| 41        | 77.3  | 64.4  | 96.6   |
| 62        | 66.9  | 52.6  | 78.8   |

Manual Integrations  
APPROVED

MMDadoda  
8/12/2020 3:58:22 PM



#40

1,4-Dioxane

Concen: 11.401 ppbv

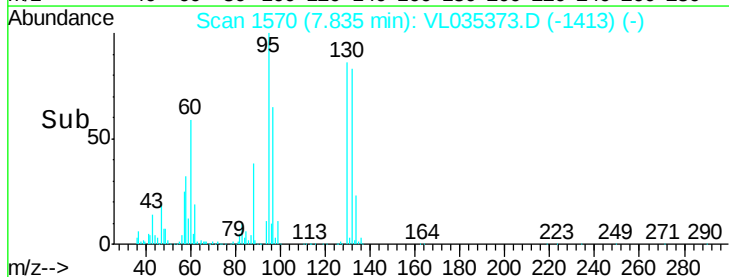
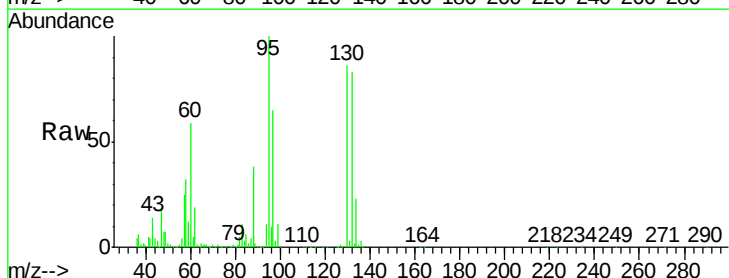
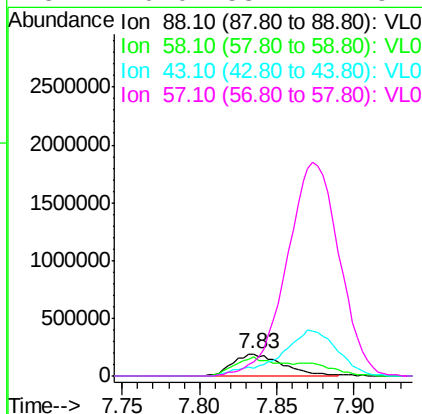
RT: 7.83 min Scan# 1570

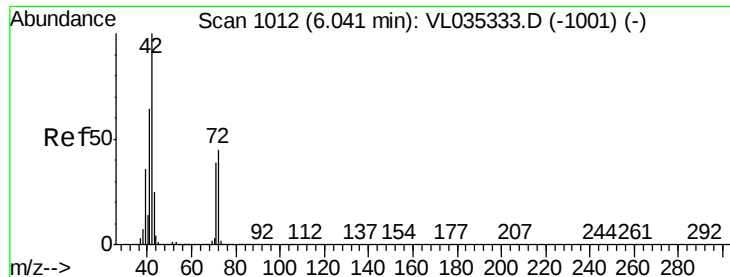
Delta R.T. 0.00 min

Lab File: VL035373.D

Acq: 10 Aug 2020 14:18

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 88    | Resp: | 431393  |
| Ion Ratio | Lower | Upper |         |
| 88        | 100   |       |         |
| 58        | 123.5 | 96.7  | 145.1   |
| 43        | 0.0   | 190.7 | 286.1#  |
| 57        | 0.0   | 834.1 | 1251.1# |





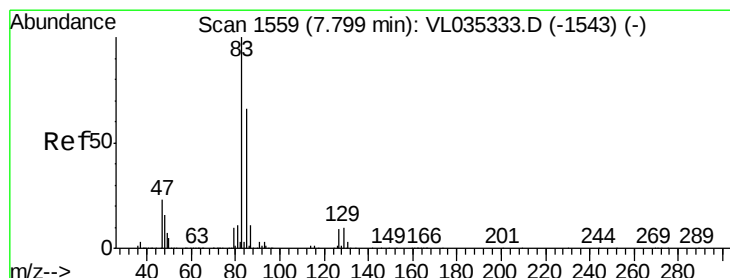
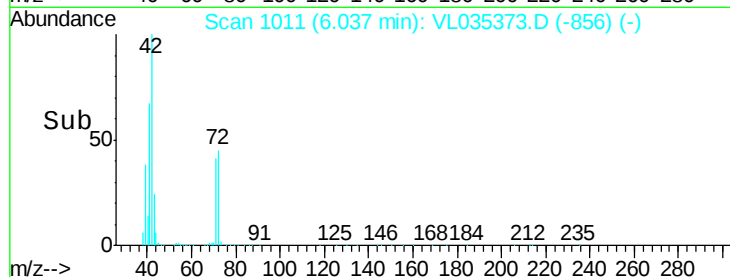
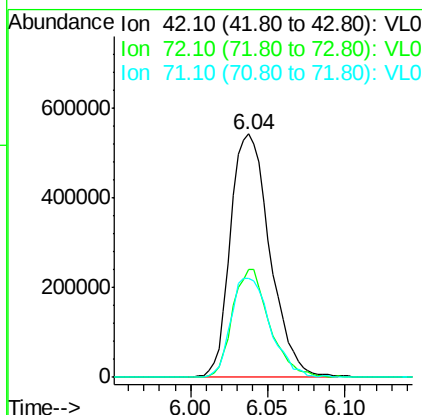
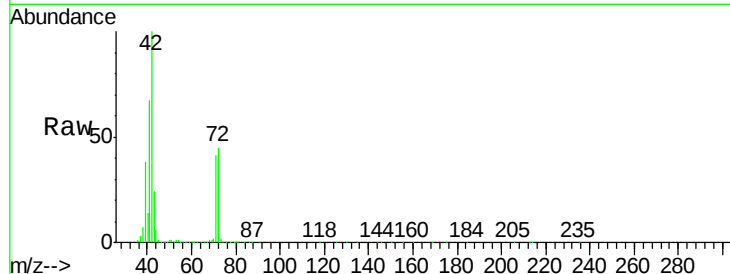
#41  
Tetrahydrofuran  
Concen: 12.278 ppbv  
RT: 6.04 min Scan# 1011  
Delta R.T. -0.00 min  
Lab File: VL035373.D  
Acq: 10 Aug 2020 14:18

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0810ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 41.7  | 33.6  | 50.4  |
| 71      | 40.9  | 33.1  | 49.7  |

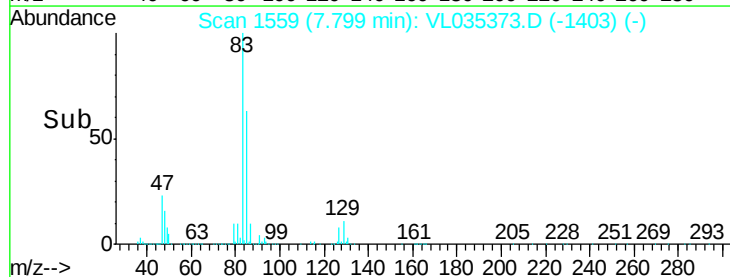
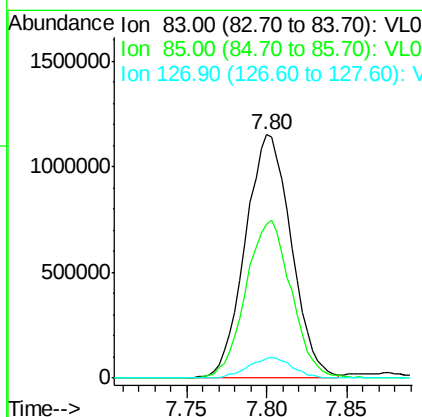
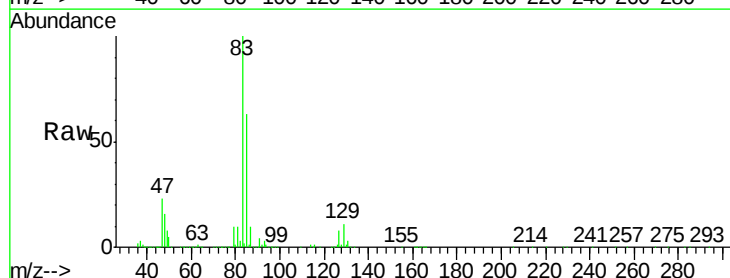
Manual Integrations  
APPROVED

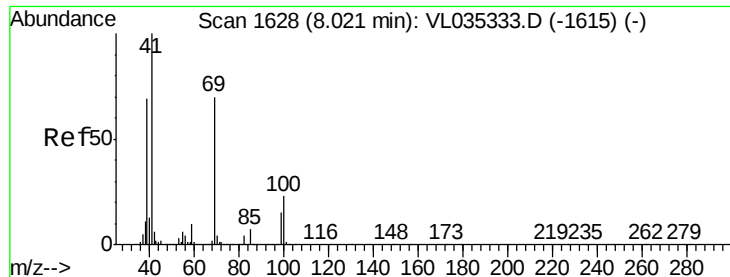
MMDadoda  
8/12/2020 3:58:22 PM



#42  
Bromodichloromethane  
Concen: 11.045 ppbv  
RT: 7.80 min Scan# 1559  
Delta R.T. 0.00 min  
Lab File: VL035373.D  
Acq: 10 Aug 2020 14:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 63.2  | 53.1  | 79.7  |
| 127     | 7.9   | 6.8   | 10.2  |





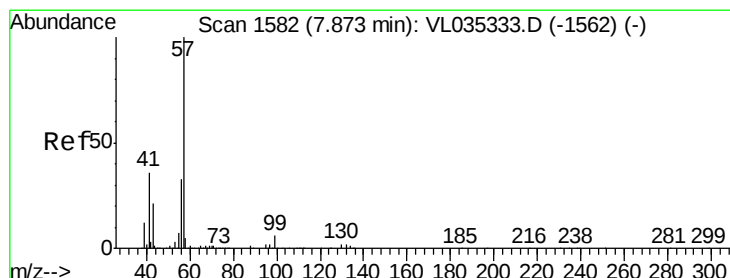
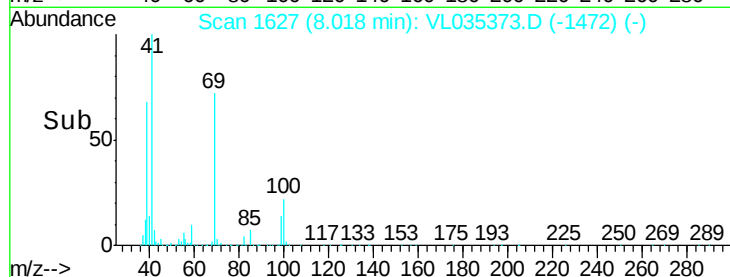
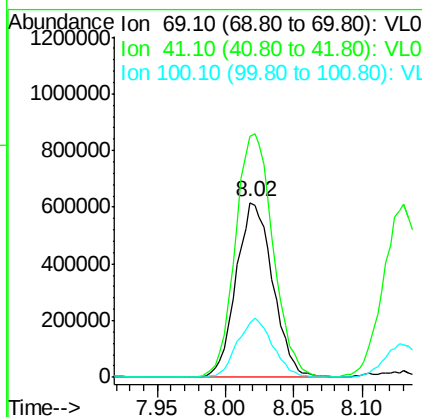
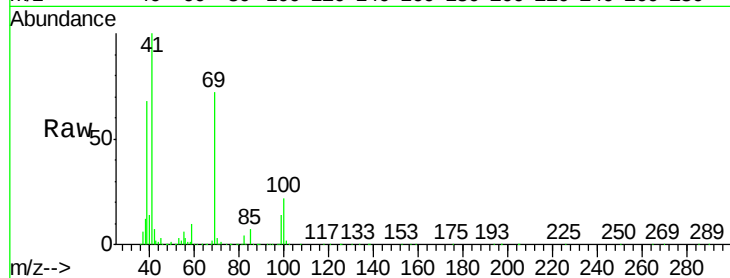
#43  
Methvl Methacrilate  
Concen: 12.542 ppbv  
RT: 8.02 min Scan# 1627  
Delta R.T. -0.00 min  
Lab File: VL035373.D  
Acq: 10 Aug 2020 14:18

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0810ABS01

| Tot Ion | Ion   | Ratio | Lower | Upper |
|---------|-------|-------|-------|-------|
| 69      | 100   |       |       |       |
| 41      | 142.8 | 115.8 | 173.6 |       |
| 100     | 32.8  | 26.7  | 40.1  |       |

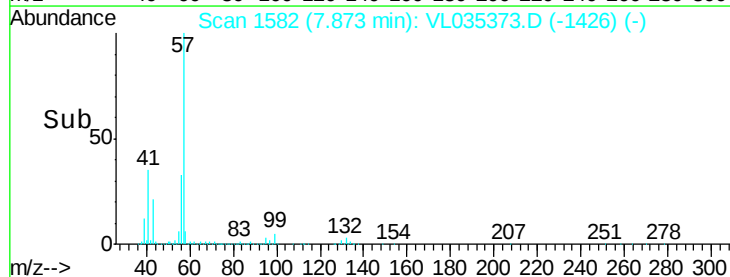
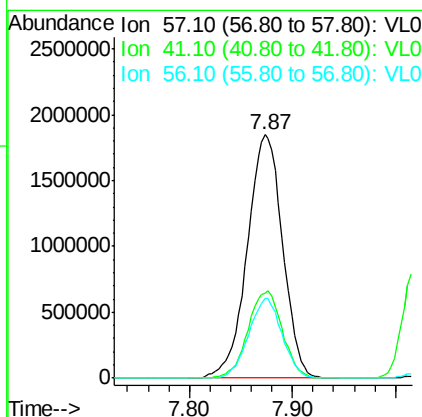
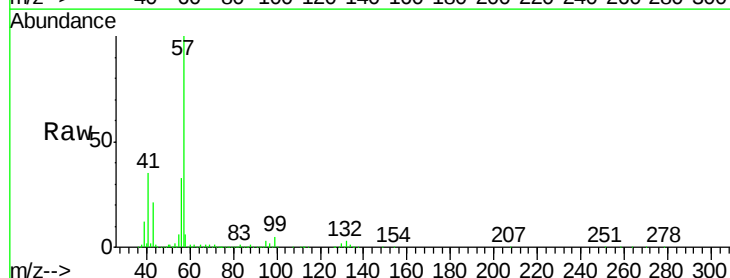
Manual Integrations  
APPROVED

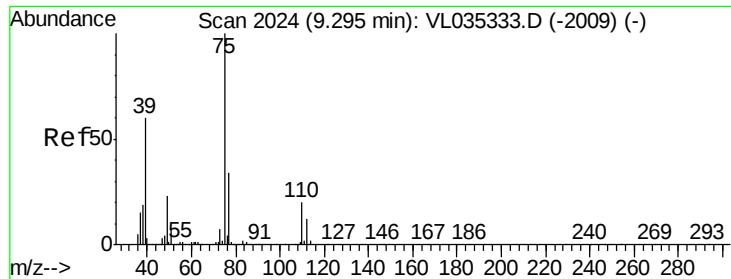
MMDadoda  
8/12/2020 3:58:22 PM



#44  
2,2,4-Trimethylpentane  
Concen: 11.298 ppbv  
RT: 7.87 min Scan# 1582  
Delta R.T. 0.00 min  
Lab File: VL035373.D  
Acq: 10 Aug 2020 14:18

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 57      | 100  |       |       |       |
| 41      | 34.9 | 27.9  | 41.9  |       |
| 56      | 31.1 | 25.4  | 38.0  |       |





#45

t-1,3-Dichloropropene

Concen: 13.419 ppbv

RT: 9.30 min Scan# 2025

Delta R.T. 0.00 min

Lab File: VL035373.D

Acq: 10 Aug 2020 14:18

Instrument :

MSVOA\_L

ClientSampleId :

VL0810ABS01

Tot Ion: 75 Resp: 1278151

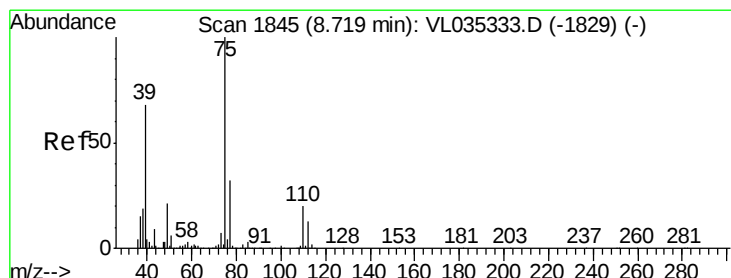
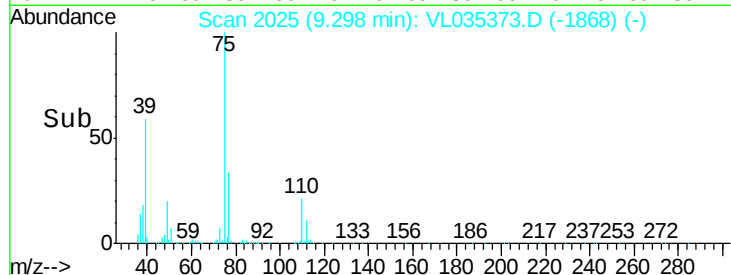
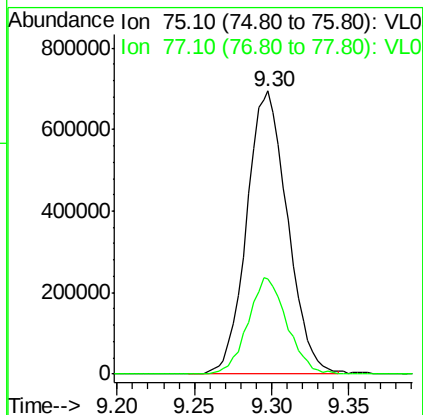
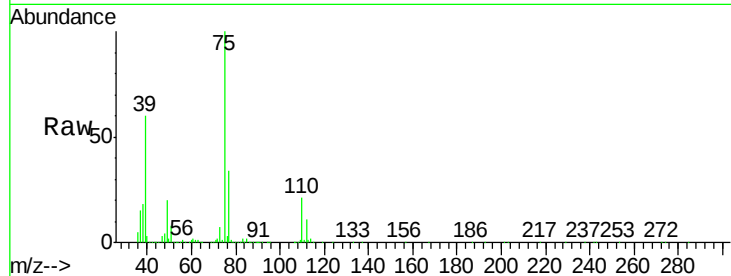
Ion Ratio Lower Upper

75 100

77 33.5 27.0 40.6

Manual Integrations  
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8/12/2020 3:58:22 PM



#46

cis-1,3-Dichloropropene

Concen: 13.178 ppbv

RT: 8.72 min Scan# 1845

Delta R.T. 0.00 min

Lab File: VL035373.D

Acq: 10 Aug 2020 14:18

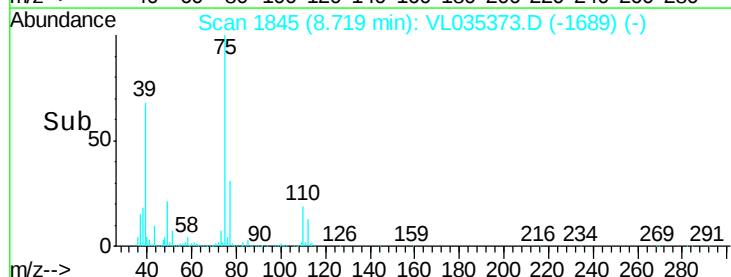
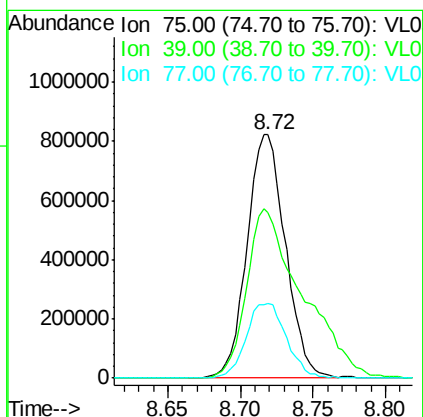
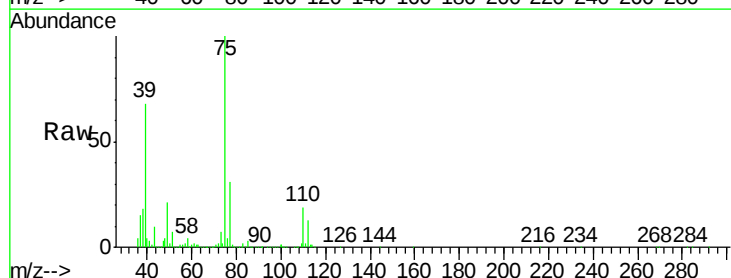
Tgt Ion: 75 Resp: 1515965

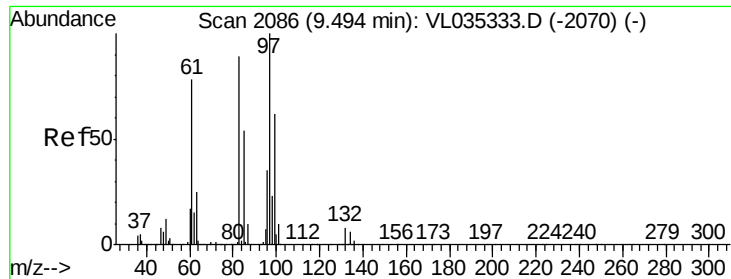
Ion Ratio Lower Upper

75 100

39 67.7 54.2 81.2

77 30.5 25.4 38.2





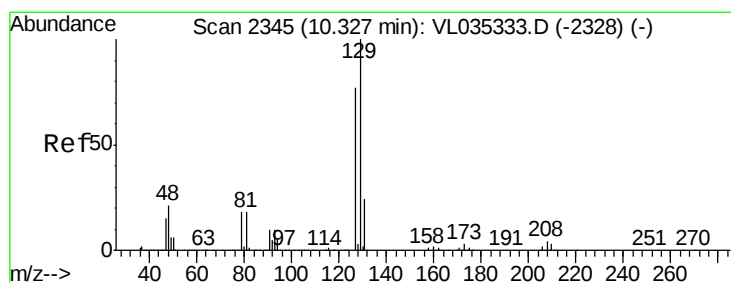
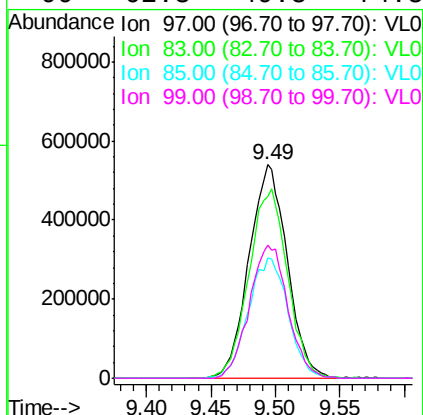
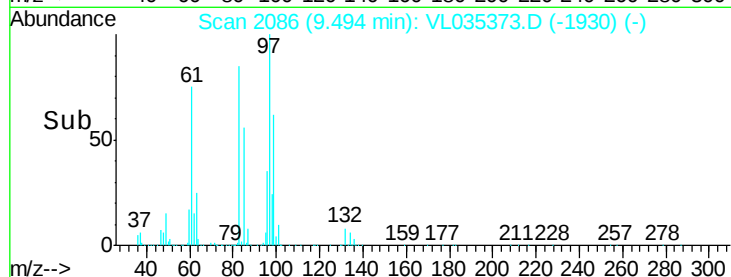
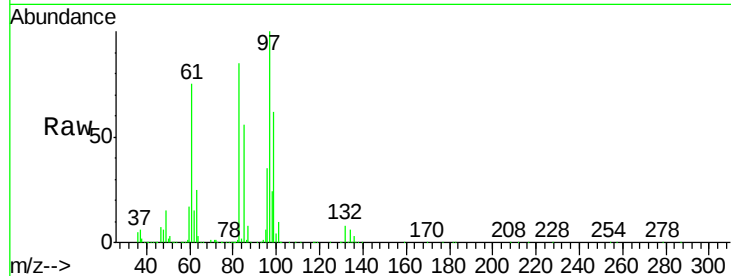
#47  
 1,1,2-Trichloroethane  
 Concen: 10.500 ppbv  
 RT: 9.49 min Scan# 2086  
 Delta R.T. 0.00 min  
 Lab File: VL035373.D  
 Acq: 10 Aug 2020 14:18

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0810ABS01

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 97      | 100  |       |       |       |
| 83      | 85.0 | 71.3  | 106.9 |       |
| 85      | 56.5 | 43.3  | 64.9  |       |
| 99      | 62.3 | 49.8  | 74.8  |       |

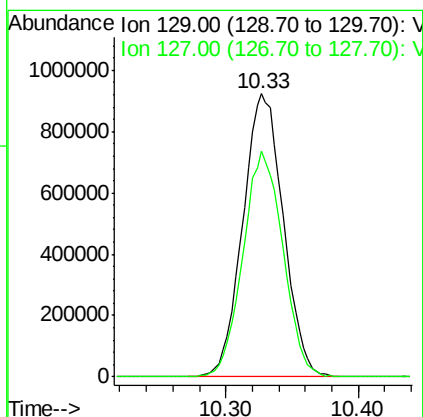
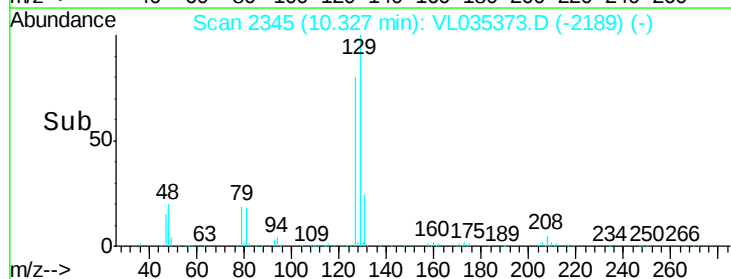
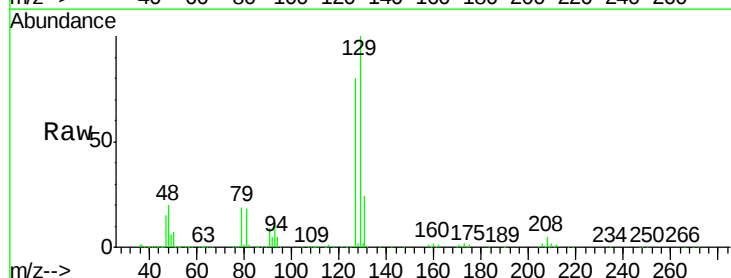
Manual Integrations  
 APPROVED

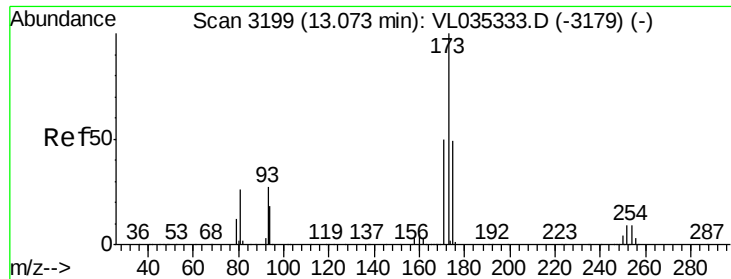
MMDadoda  
 8/12/2020 3:58:22 PM



#48  
 Dibromochloromethane  
 Concen: 11.245 ppbv  
 RT: 10.33 min Scan# 2345  
 Delta R.T. 0.00 min  
 Lab File: VL035373.D  
 Acq: 10 Aug 2020 14:18

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 129     | 100  |       |       |       |
| 127     | 78.8 | 39.1  | 117.2 |       |





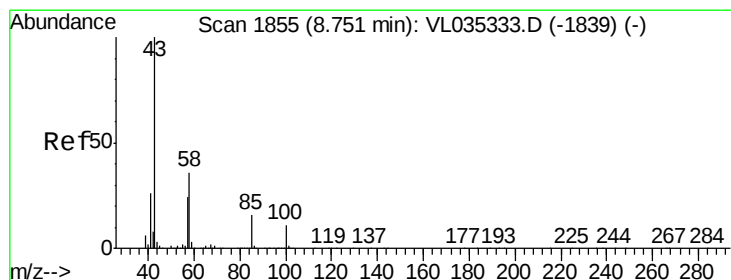
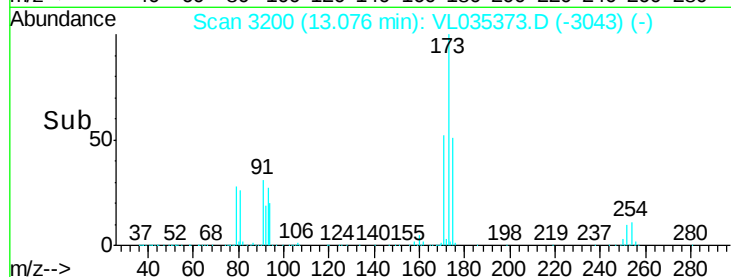
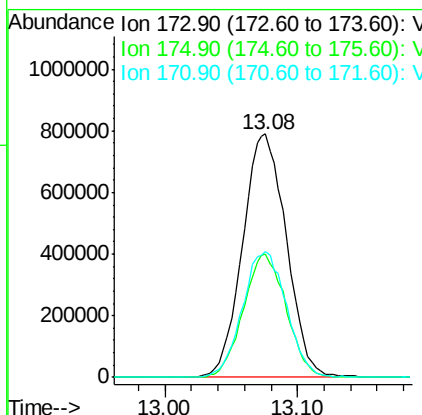
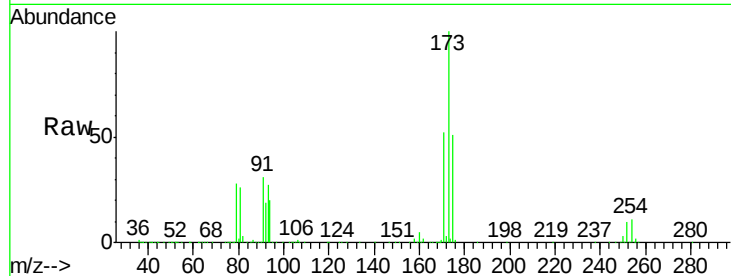
#49  
Bromoform  
Concen: 11.394 ppbv  
RT: 13.08 min Scan# 3200  
Delta R.T. 0.00 min  
Lab File: VL035373.D  
Acq: 10 Aug 2020 14:18

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0810ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 173     | 100   |       |       |
| 175     | 49.6  | 39.3  | 58.9  |
| 171     | 52.2  | 41.2  | 61.8  |

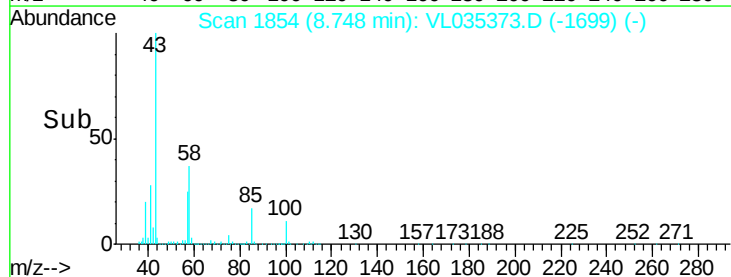
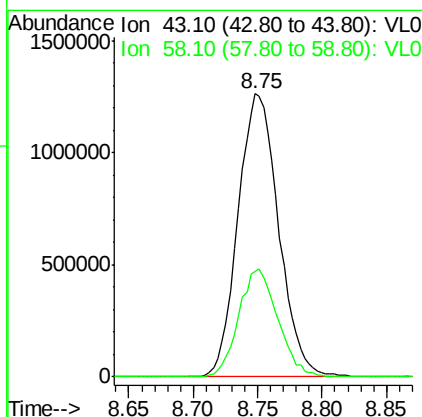
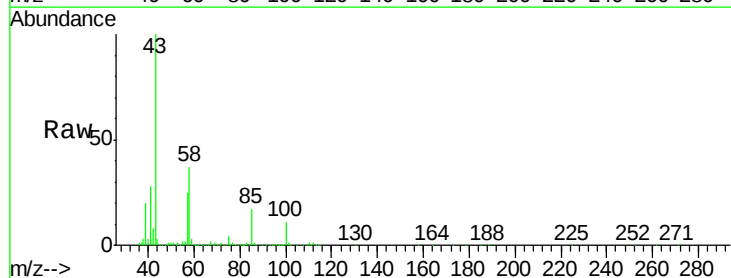
Manual Integrations  
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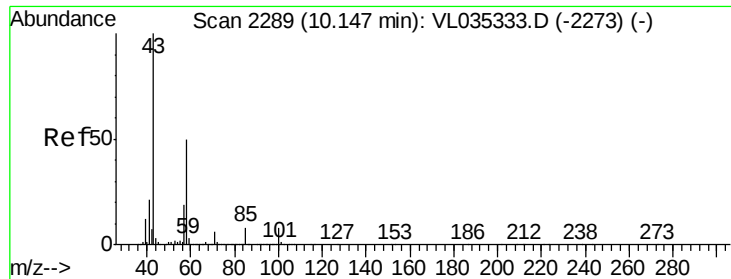
MMDadoda  
8/12/2020 3:58:22 PM



#50  
4-Methyl-2-Pentanone  
Concen: 11.383 ppbv  
RT: 8.75 min Scan# 1854  
Delta R.T. -0.00 min  
Lab File: VL035373.D  
Acq: 10 Aug 2020 14:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 36.8  | 29.2  | 43.8  |





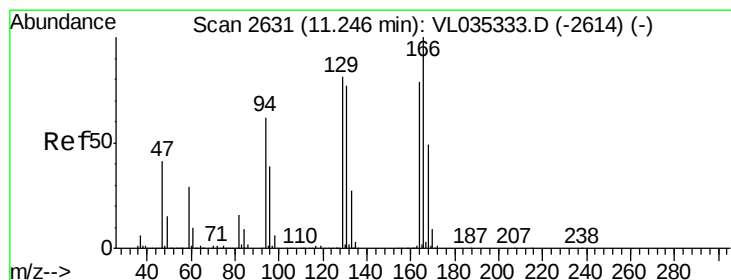
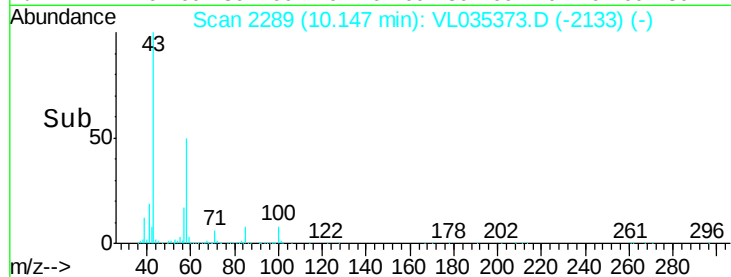
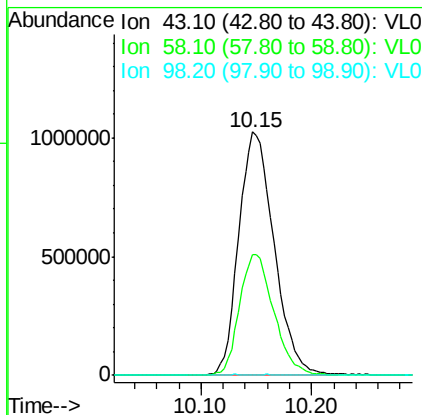
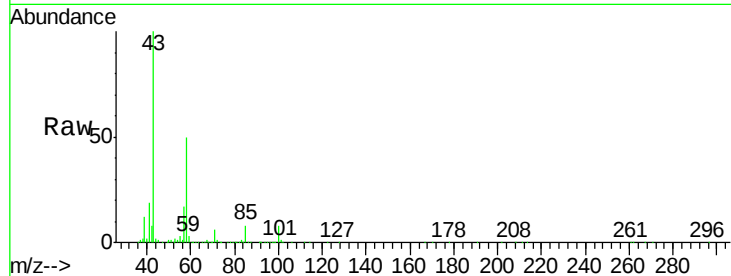
#51  
2-Hexanone  
Concen: 11.958 ppbv  
RT: 10.15 min Scan# 2289  
Delta R.T. 0.00 min  
Lab File: VL035373.D  
Acq: 10 Aug 2020 14:18

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0810ABS01

Tot Ion: 43 Resp: 2277925  
Ion Ratio Lower Upper  
43 100  
58 48.4 39.4 59.2  
98 0.5 0.2 0.4#

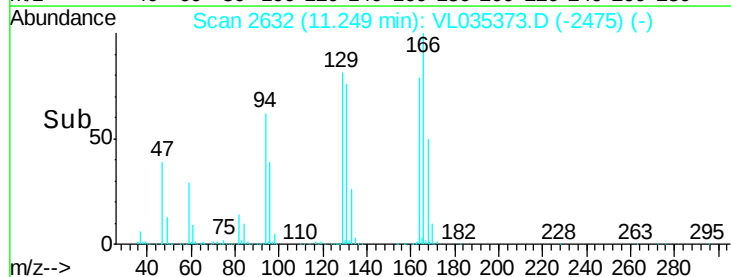
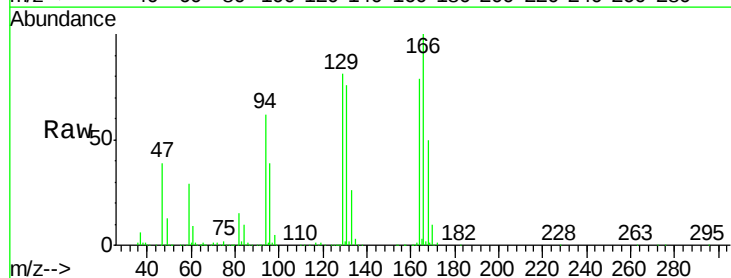
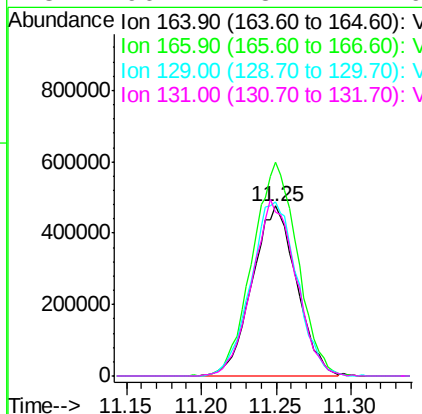
Manual Integrations  
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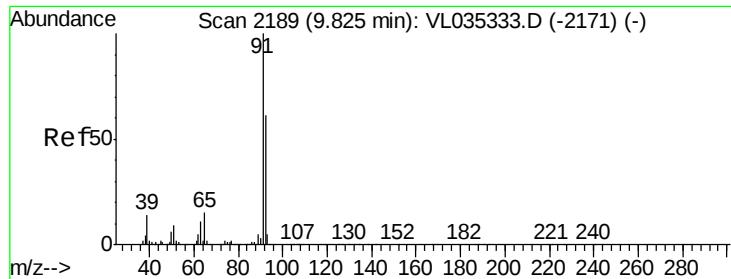
MMDadoda  
8/12/2020 3:58:22 PM



#52  
Tetrachloroethene  
Concen: 11.337 ppbv  
RT: 11.25 min Scan# 2632  
Delta R.T. 0.00 min  
Lab File: VL035373.D  
Acq: 10 Aug 2020 14:18

Tgt Ion: 164 Resp: 981042  
Ion Ratio Lower Upper  
164 100  
166 125.8 101.4 152.0  
129 102.4 82.1 123.1  
131 96.2 78.4 117.6





#53

Toluene

Concen: 12.811 ppbv

RT: 9.82 min Scan# 2188

Delta R.T. -0.00 min

Lab File: VL035373.D

Acq: 10 Aug 2020 14:18

Instrument :

MSVOA\_L

ClientSampleId :

VL0810ABS01

Tot Ion: 91 Resp: 3041769

Ion Ratio Lower Upper

91 100

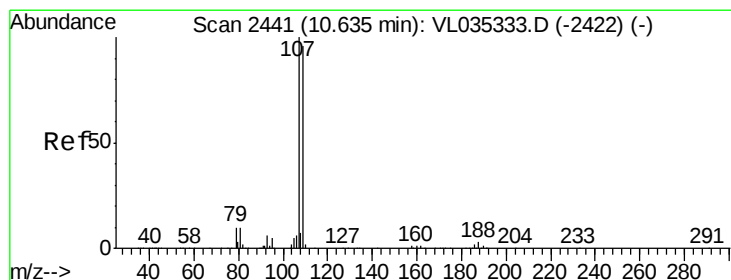
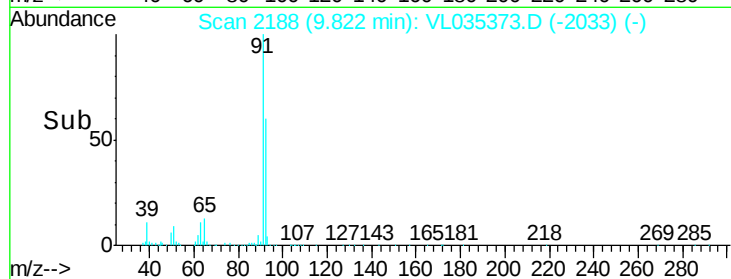
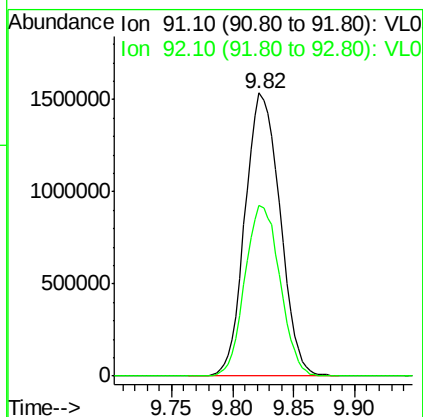
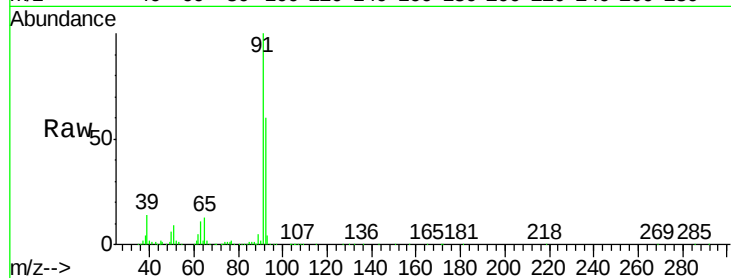
92 60.3 48.5 72.7

Manual Integrations

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MMDadoda

8/12/2020 3:58:22 PM



#54

1,2-Dibromoethane

Concen: 11.181 ppbv

RT: 10.64 min Scan# 2441

Delta R.T. 0.00 min

Lab File: VL035373.D

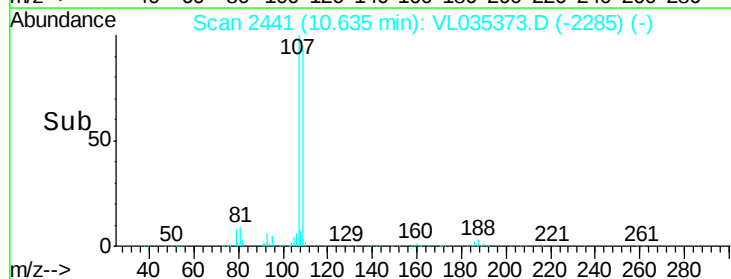
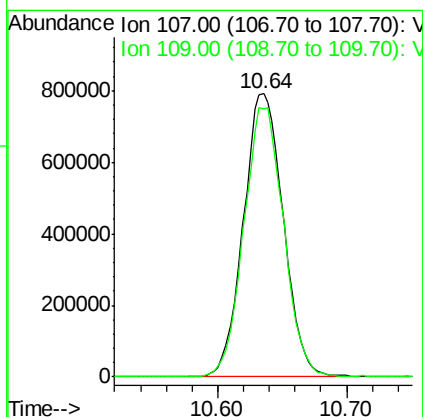
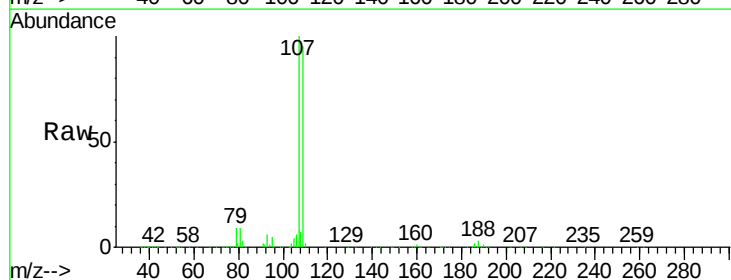
Acq: 10 Aug 2020 14:18

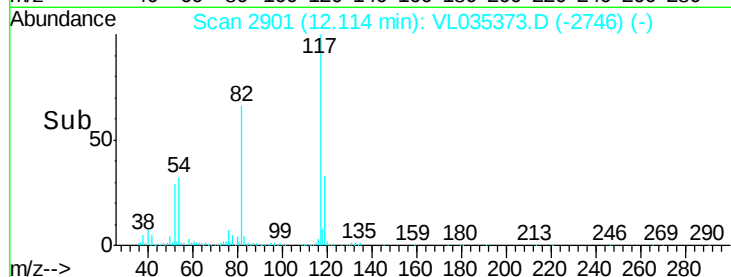
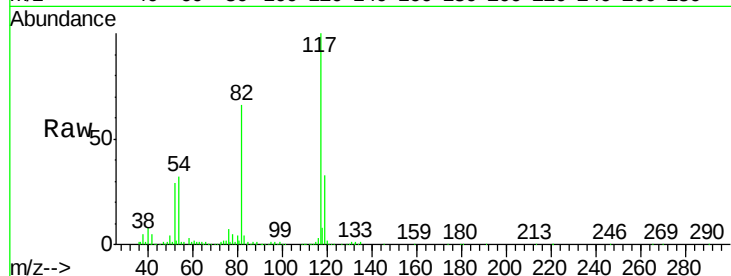
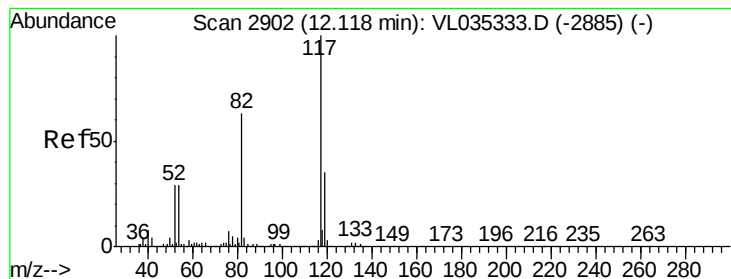
Tgt Ion: 107 Resp: 1704208

Ion Ratio Lower Upper

107 100

109 94.8 76.8 115.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2901

Delta R.T. -0.00 min

Lab File: VL035373.D

Acq: 10 Aug 2020 14:18

Tot Ion:117 Resp: 3422118

Ion Ratio Lower Upper

117 100

82 61.3 51.0 76.4

119 24.6 24.7 37.1#

Instrument :

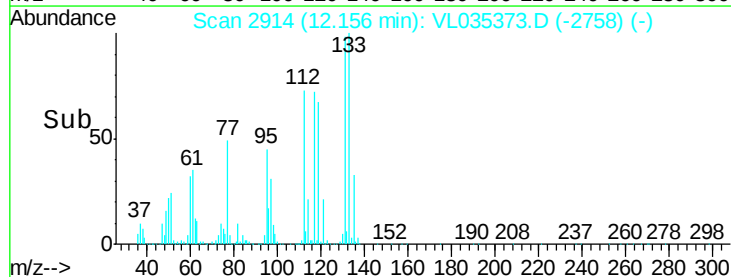
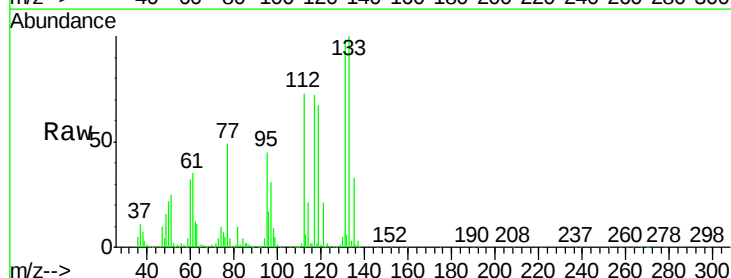
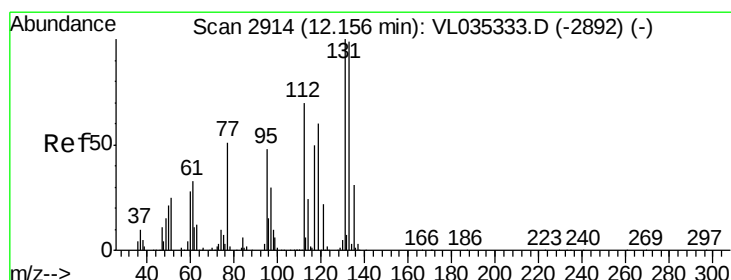
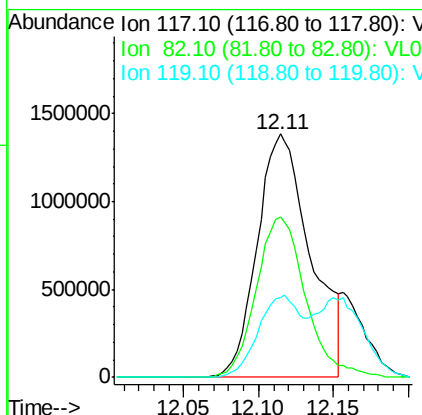
MSVOA\_L

ClientSampleId :

VL0810ABS01

Manual Integrations  
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#56

1,1,1,2-Tetrachloroethane

Concen: 9.434 ppbv

RT: 12.16 min Scan# 2914

Delta R.T. 0.00 min

Lab File: VL035373.D

Acq: 10 Aug 2020 14:18

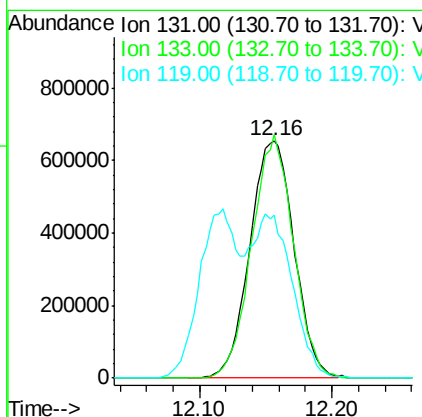
Tgt Ion:131 Resp: 1523823

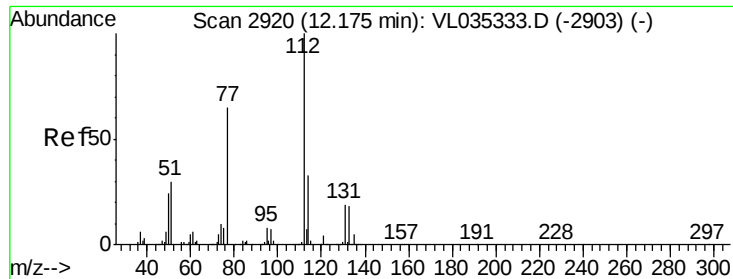
Ion Ratio Lower Upper

131 100

133 96.8 75.4 113.2

119 72.9 43.7 65.5#





#57

Chlorobenzene

Concen: 9.679 ppbv

RT: 12.18 min Scan# 2921

Delta R.T. 0.00 min

Lab File: VL035373.D

Acq: 10 Aug 2020 14:18

Instrument :

MSVOA\_L

ClientSampleId :

VL0810ABS01

Tot Ion: 112 Resp: 2494119

Ion Ratio Lower Upper

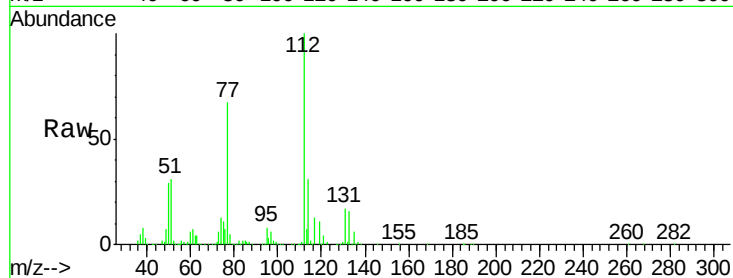
112 100

77 67.2 53.3 79.9

114 31.3 29.8 36.4

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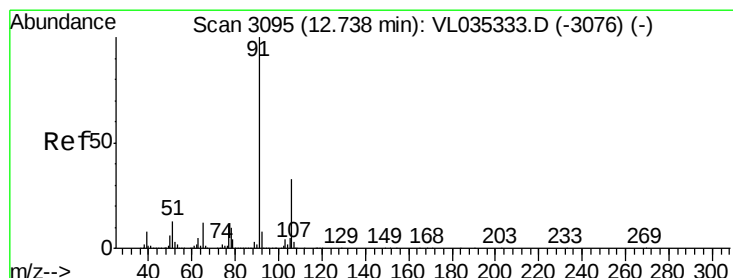
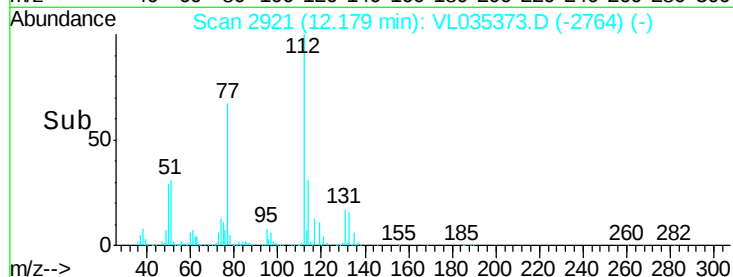
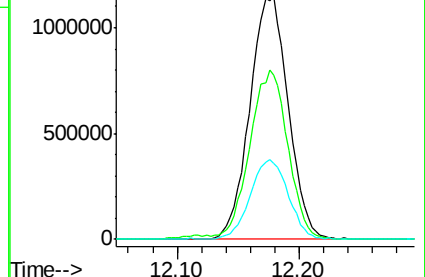
MMDadoda  
8/12/2020 3:58:22 PM



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 11.543 ppbv

RT: 12.74 min Scan# 3095

Delta R.T. 0.00 min

Lab File: VL035373.D

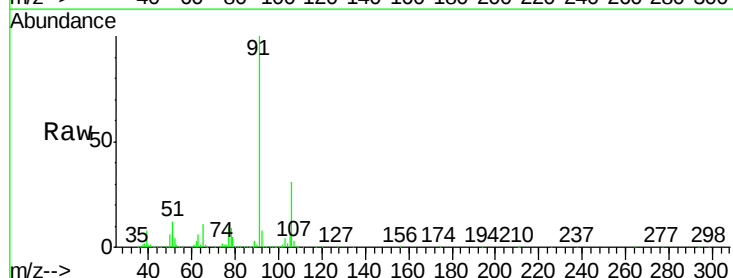
Acq: 10 Aug 2020 14:18

Tgt Ion: 91 Resp: 4110289

Ion Ratio Lower Upper

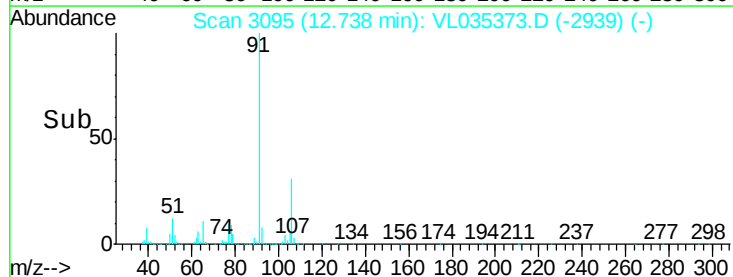
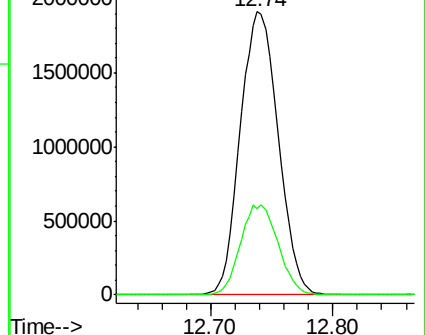
91 100

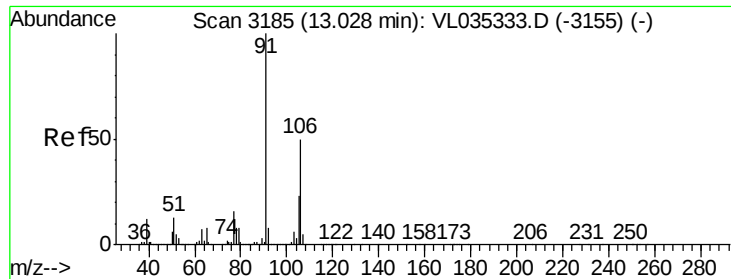
106 30.7 26.8 40.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





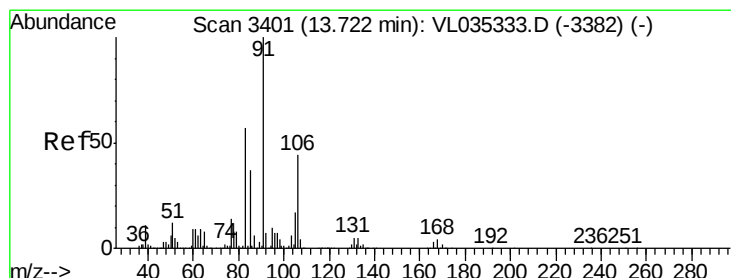
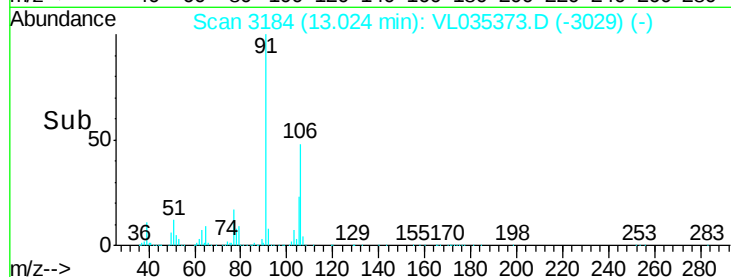
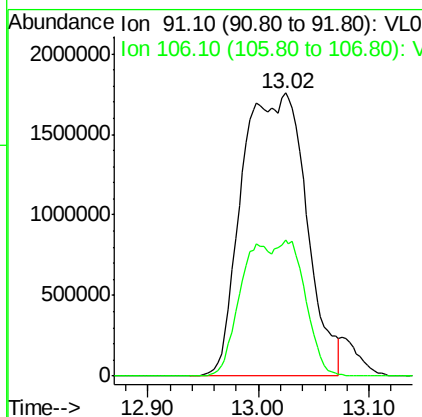
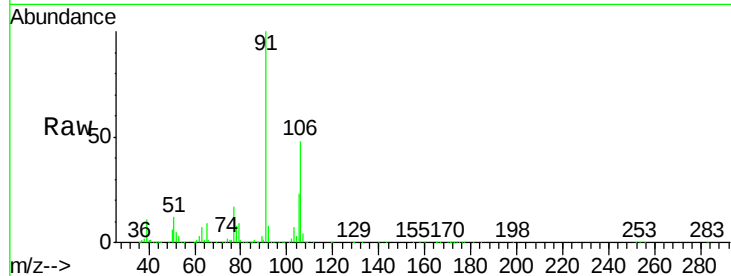
#59  
m/p-Xylene  
Concen: 21.389 ppbv m  
RT: 13.02 min Scan# 3184  
Delta R.T. -0.00 min  
Lab File: VL035373.D  
Acq: 10 Aug 2020 14:18

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0810ABS01

Tot Ion: 91 Resp: 7092160  
Ion Ratio Lower Upper  
91 100  
106 45.9 37.8 56.8

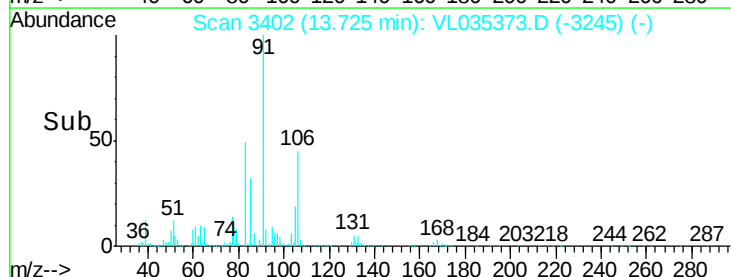
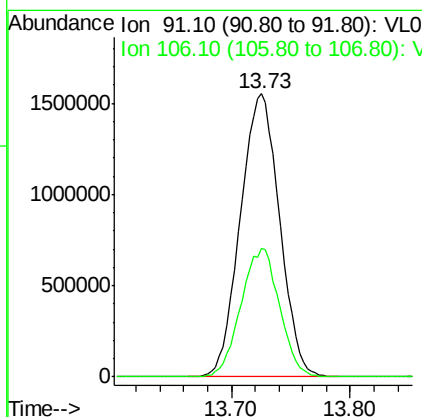
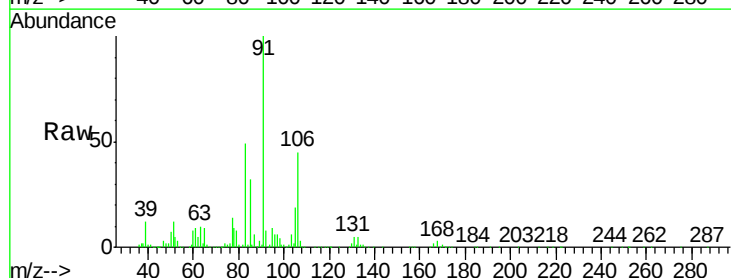
Manual Integrations  
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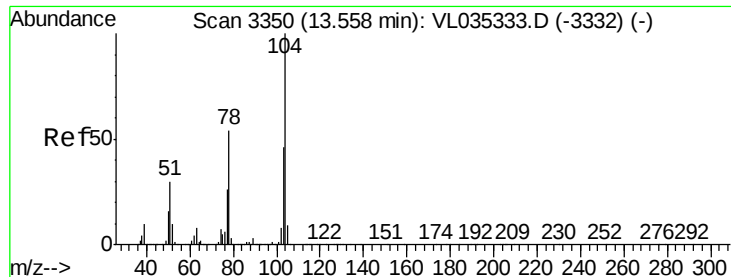
MMDadoda  
8/12/2020 3:58:22 PM



#60  
o-Xylene  
Concen: 10.746 ppbv  
RT: 13.73 min Scan# 3402  
Delta R.T. 0.00 min  
Lab File: VL035373.D  
Acq: 10 Aug 2020 14:18

Tgt Ion: 91 Resp: 3535807  
Ion Ratio Lower Upper  
91 100  
106 44.8 22.7 68.0





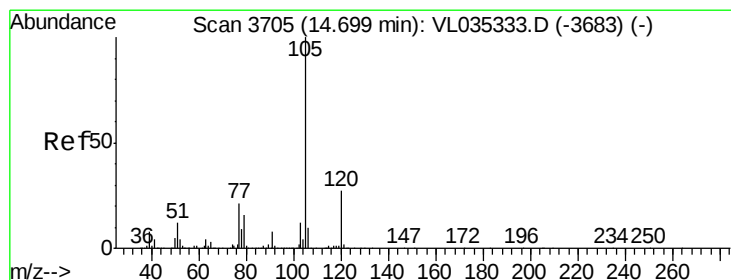
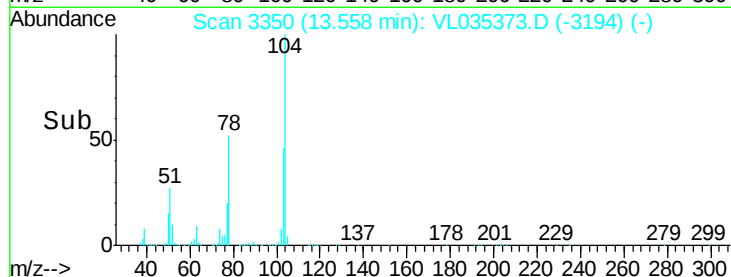
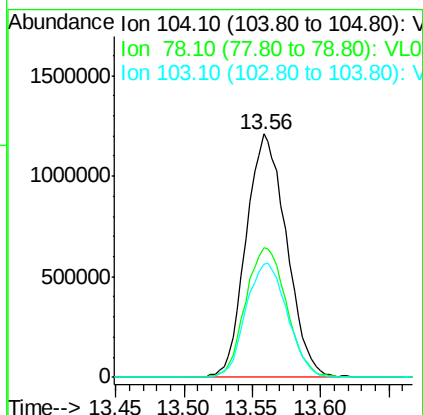
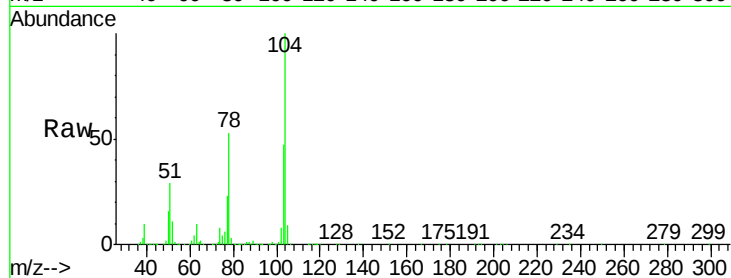
#61  
Stvrene  
Concen: 12.404 ppbv  
RT: 13.56 min Scan# 3350  
Delta R.T. 0.00 min  
Lab File: VL035373.D  
Acq: 10 Aug 2020 14:18

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0810ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 104     | 100   |       |       |
| 78      | 54.4  | 42.6  | 63.8  |
| 103     | 48.1  | 38.1  | 57.1  |

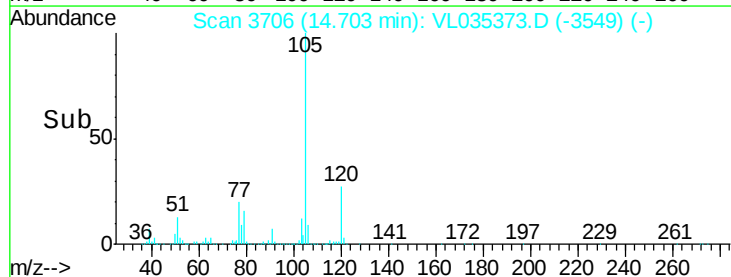
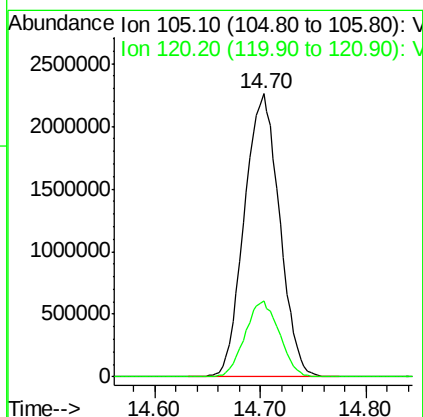
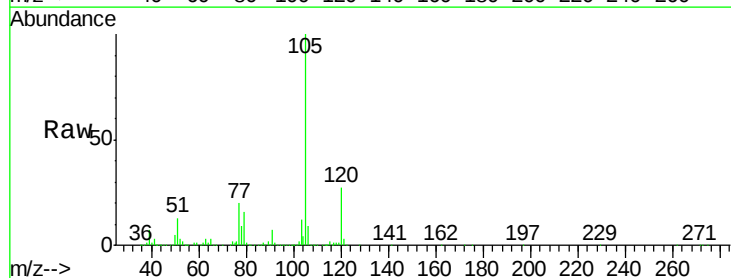
Manual Integrations  
APPROVED

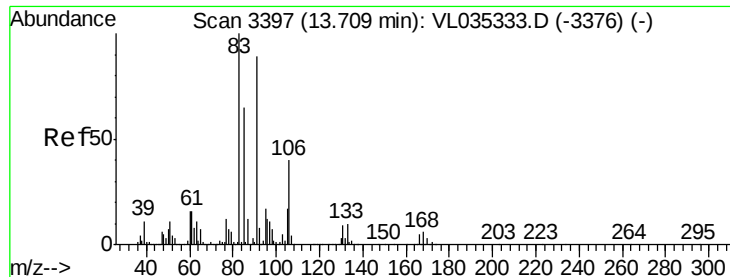
MMDadoda  
8/12/2020 3:58:22 PM



#62  
Isopropylbenzene  
Concen: 10.600 ppbv  
RT: 14.70 min Scan# 3706  
Delta R.T. 0.00 min  
Lab File: VL035373.D  
Acq: 10 Aug 2020 14:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 26.1  | 21.1  | 31.7  |





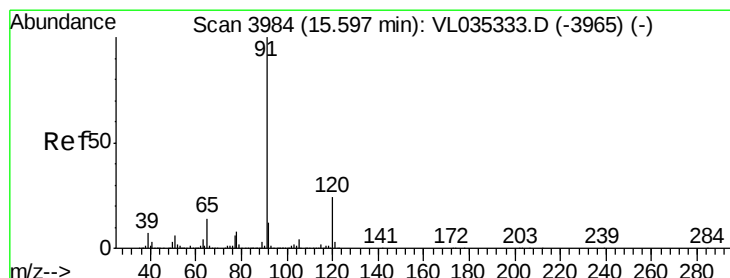
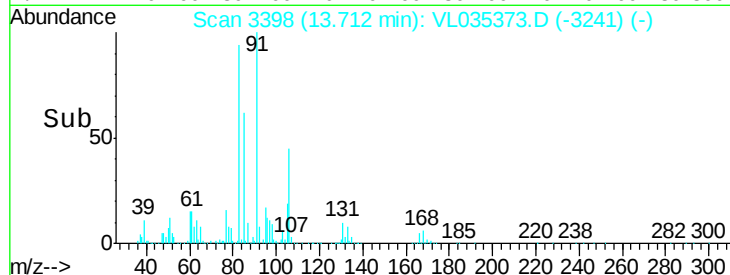
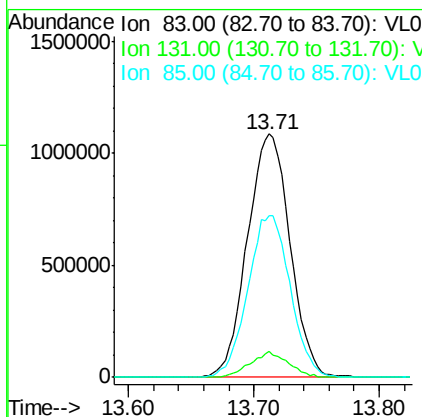
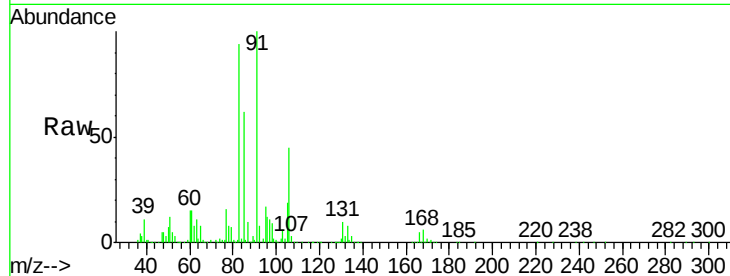
#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 9.147 ppbv  
 RT: 13.71 min Scan# 3398  
 Delta R.T. 0.00 min  
 Lab File: VL035373.D  
 Acq: 10 Aug 2020 14:18

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0810ABS01

| Tot Ion   | 83   | Resp  | 2567573 |
|-----------|------|-------|---------|
| Ion Ratio | 100  | Lower | Upper   |
| 83        | 100  |       |         |
| 131       | 9.6  | 5.0   | 14.9    |
| 85        | 66.0 | 32.6  | 98.0    |

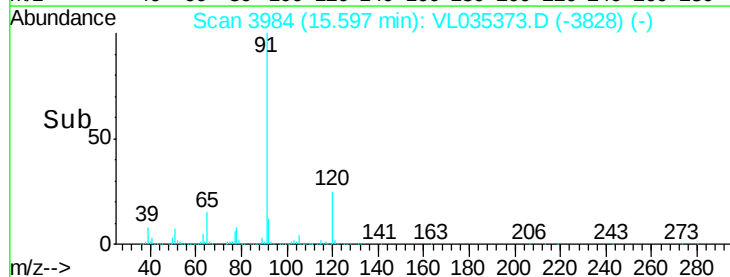
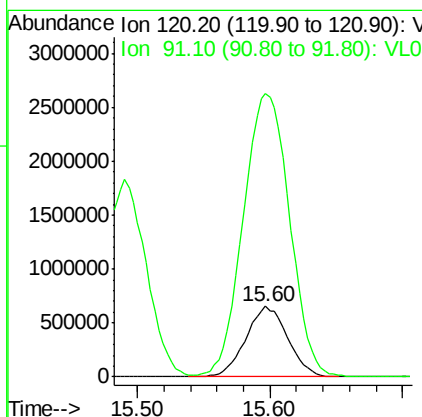
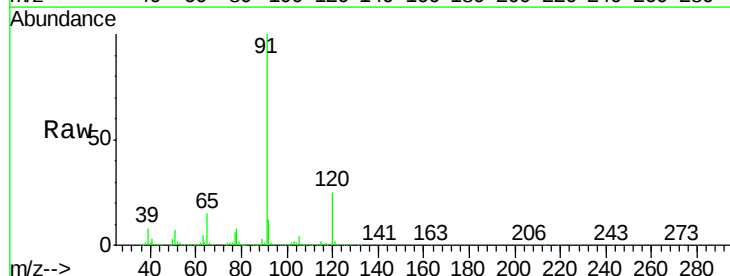
Manual Integrations  
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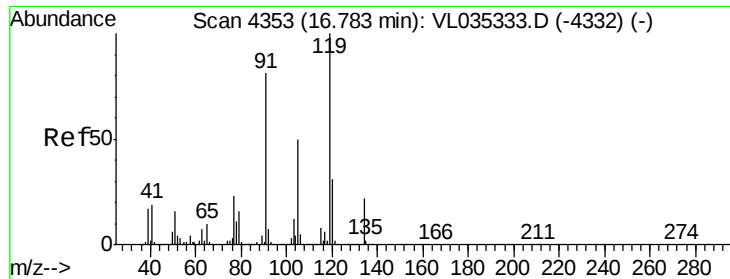
MMDadoda  
 8/12/2020 3:58:22 PM



#64  
 n-propylbenzene  
 Concen: 10.779 ppbv  
 RT: 15.60 min Scan# 3984  
 Delta R.T. 0.00 min  
 Lab File: VL035373.D  
 Acq: 10 Aug 2020 14:18

| Tgt Ion   | 120   | Resp  | 1435161 |
|-----------|-------|-------|---------|
| Ion Ratio | 100   | Lower | Upper   |
| 120       | 100   |       |         |
| 91        | 443.9 | 357.2 | 535.8   |





#65

tert-Butylbenzene

Concen: 10.606 ppbv

RT: 16.78 min Scan# 4353

Delta R.T. 0.00 min

Lab File: VL035373.D

Acq: 10 Aug 2020 14:18

Instrument :

MSVOA\_L

ClientSampleId :

VL0810ABS01

Tot Ion: 119 Resp: 4811461

Ion Ratio Lower Upper

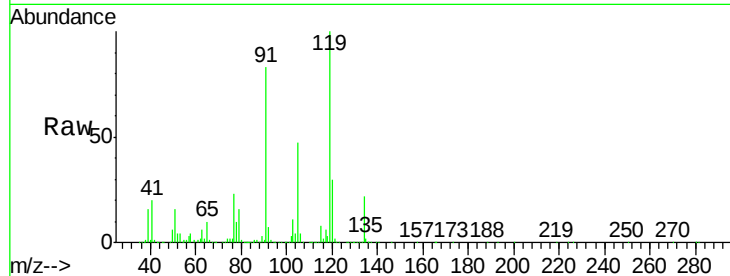
119 100

91 84.0 66.3 99.5

134 20.5 16.2 24.2

Manual Integrations  
APPROVED

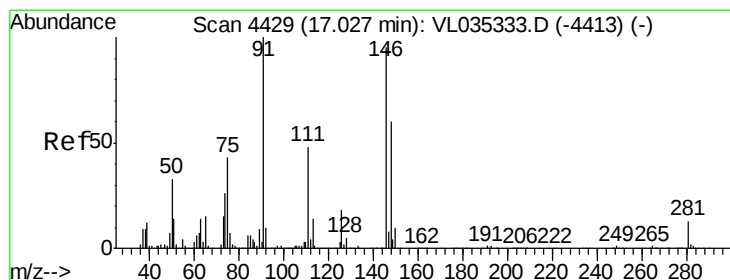
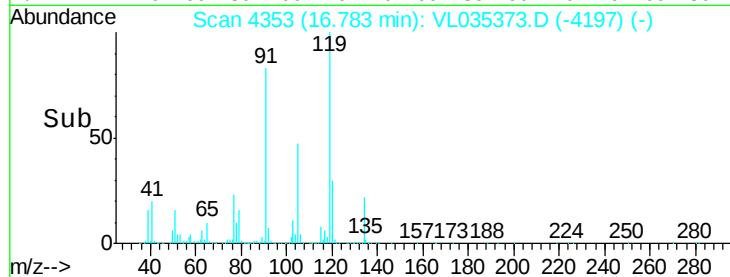
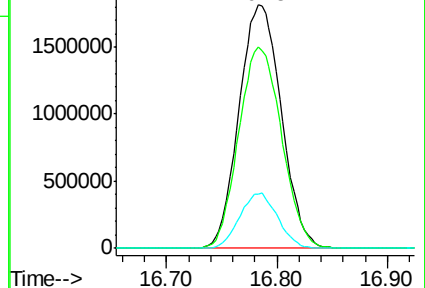
MMDadoda  
8/12/2020 3:58:22 PM



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 11.292 ppbv

RT: 17.03 min Scan# 4430

Delta R.T. 0.00 min

Lab File: VL035373.D

Acq: 10 Aug 2020 14:18

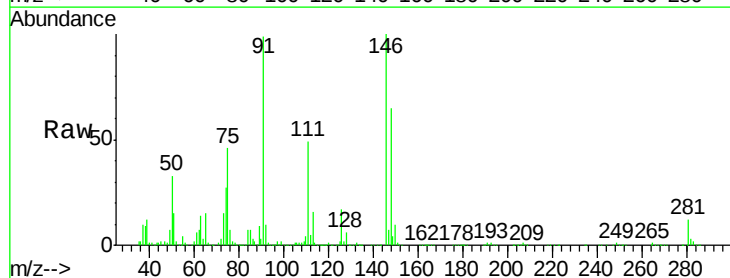
Tgt Ion: 91 Resp: 2027643

Ion Ratio Lower Upper

91 100

126 17.0 14.1 21.1

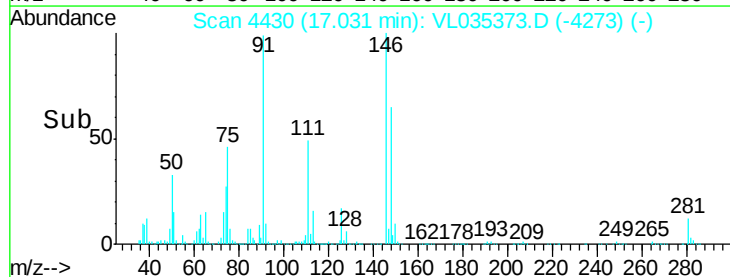
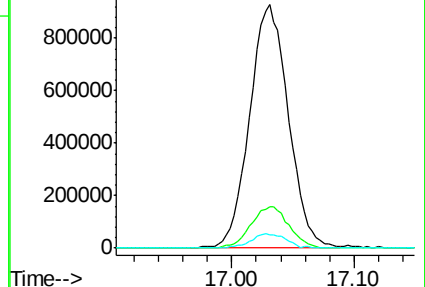
128 5.5 4.5 6.7

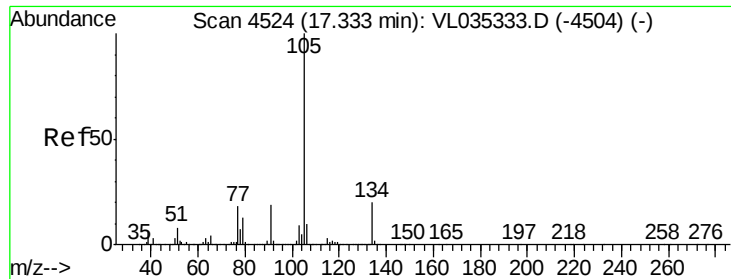


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





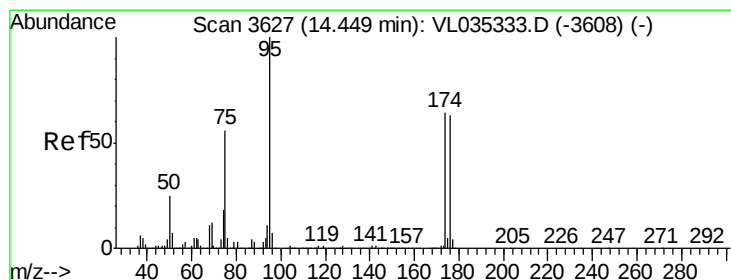
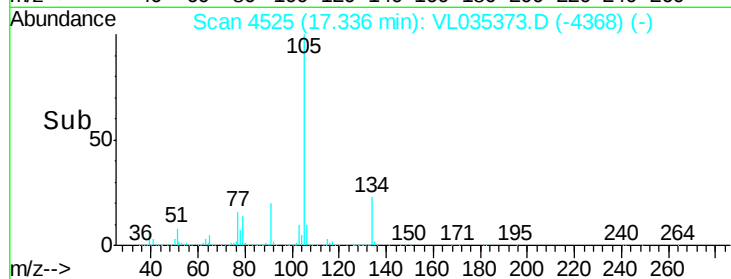
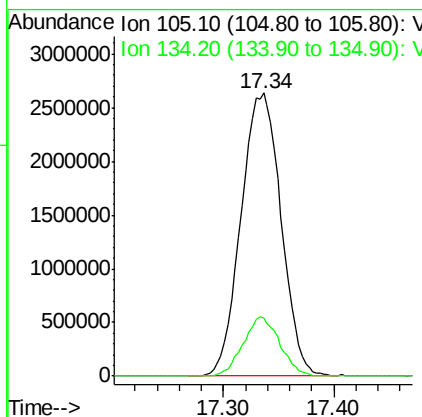
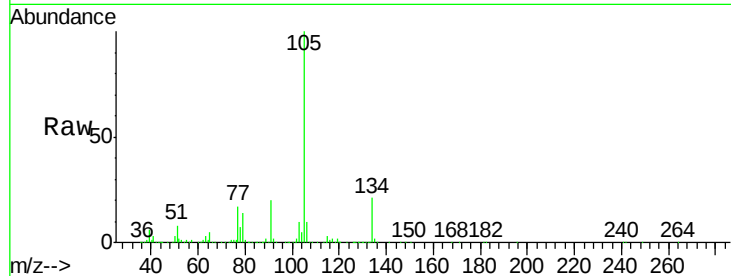
#67  
 sec-Butylbenzene  
 Concen: 10.320 ppbv  
 RT: 17.34 min Scan# 4525  
 Delta R.T. 0.00 min  
 Lab File: VL035373.D  
 Acq: 10 Aug 2020 14:18

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0810ABS01

Tot Ion:105 Resp: 6622559  
 Ion Ratio Lower Upper  
 105 100  
 134 19.2 15.4 23.2

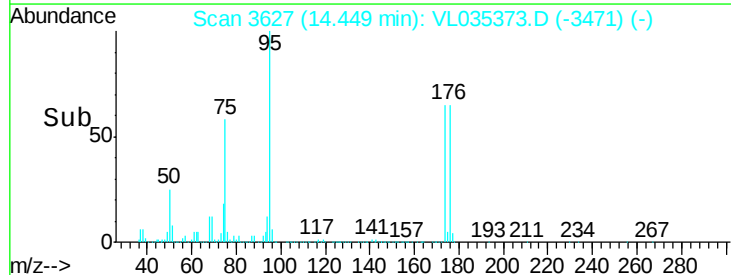
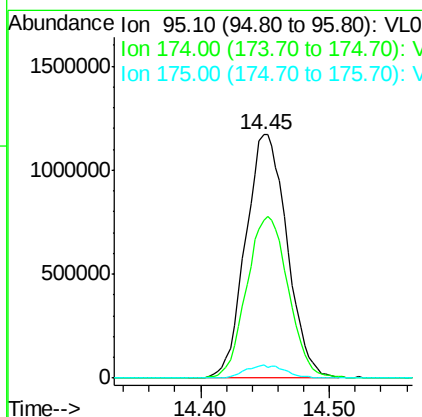
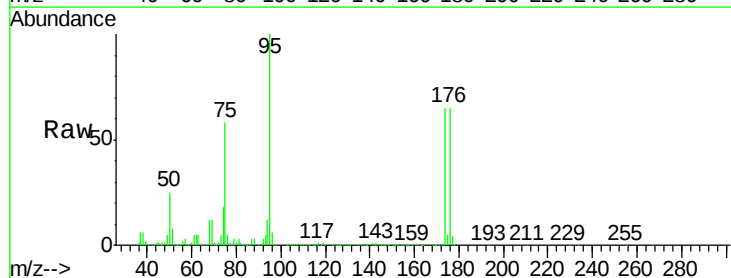
Manual Integrations  
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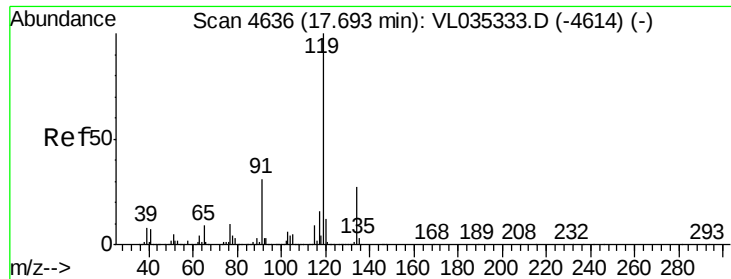
MMDadoda  
 8/12/2020 3:58:22 PM



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.148 ppbv  
 RT: 14.45 min Scan# 3627  
 Delta R.T. 0.00 min  
 Lab File: VL035373.D  
 Acq: 10 Aug 2020 14:18

Tgt Ion: 95 Resp: 2610738  
 Ion Ratio Lower Upper  
 95 100  
 174 67.2 53.5 80.3  
 175 5.1 4.2 6.2





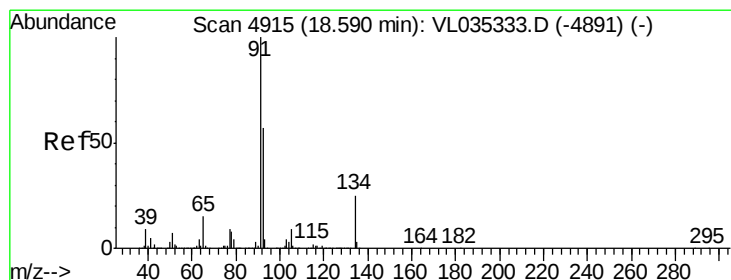
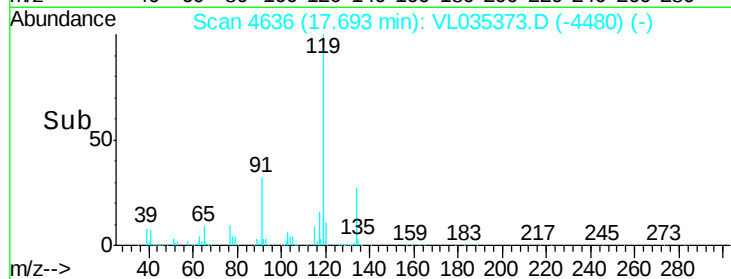
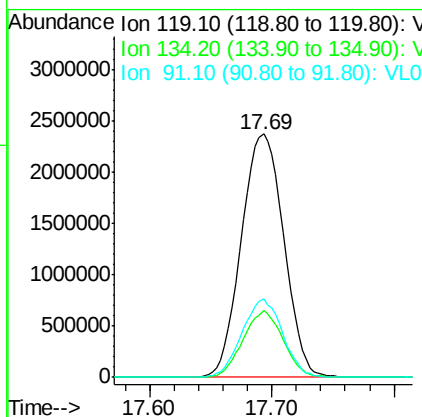
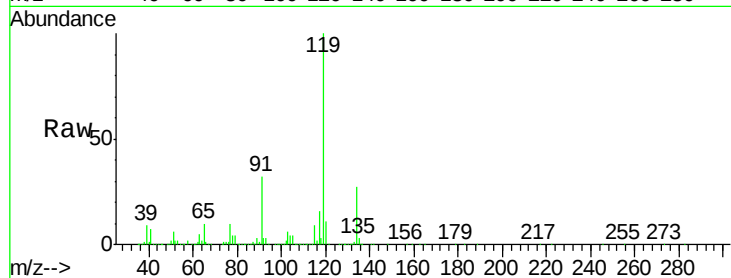
#69  
 p-Isopropyltoluene  
 Concen: 10.874 ppbv  
 RT: 17.69 min Scan# 4636  
 Delta R.T. 0.00 min  
 Lab File: VL035373.D  
 Acq: 10 Aug 2020 14:18

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0810ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 26.0  | 21.1  | 31.7  |
| 91      | 31.0  | 24.5  | 36.7  |

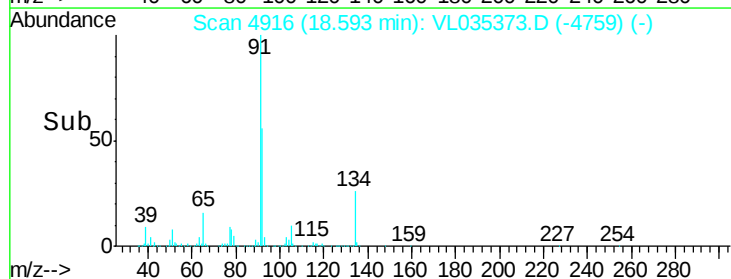
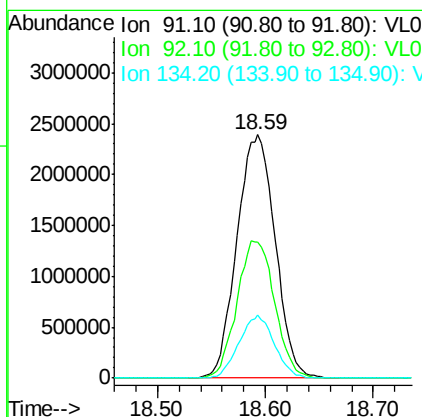
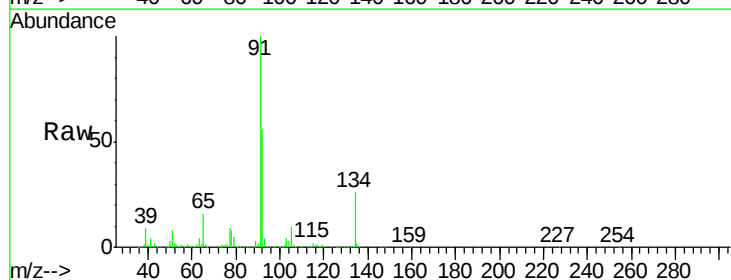
Manual Integrations  
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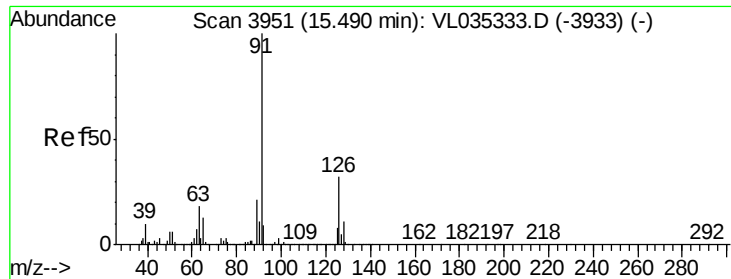
MMDadoda  
 8/12/2020 3:58:22 PM



#70  
 n-Butylbenzene  
 Concen: 10.530 ppbv  
 RT: 18.59 min Scan# 4916  
 Delta R.T. 0.00 min  
 Lab File: VL035373.D  
 Acq: 10 Aug 2020 14:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 55.5  | 44.2  | 66.2  |
| 134     | 23.9  | 19.0  | 28.6  |





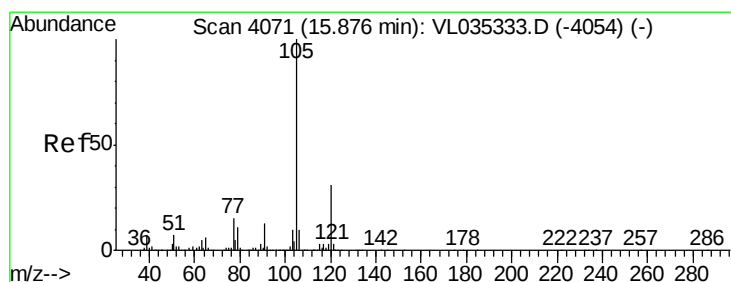
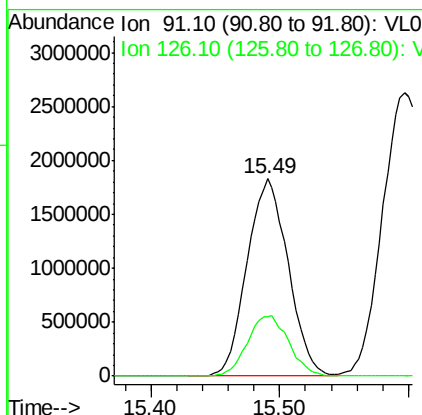
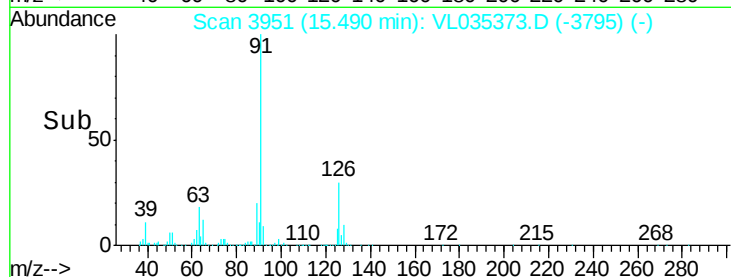
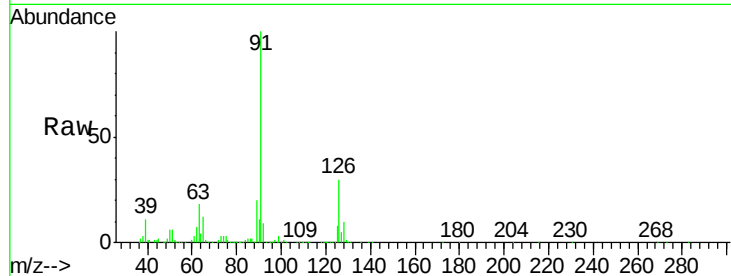
#71  
 2-Chlorotoluene  
 Concen: 11.236 ppbv  
 RT: 15.49 min Scan# 3951  
 Delta R.T. 0.00 min  
 Lab File: VL035373.D  
 Acq: 10 Aug 2020 14:18

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0810ABS01

Tot Ion: 91 Resp: 4077622  
 Ion Ratio Lower Upper  
 91 100  
 126 30.7 12.5 50.1

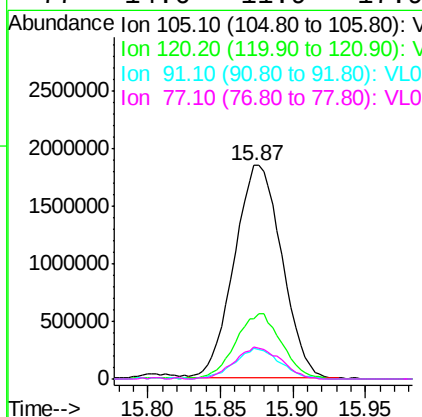
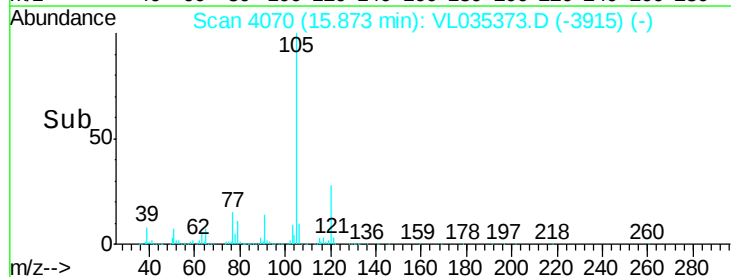
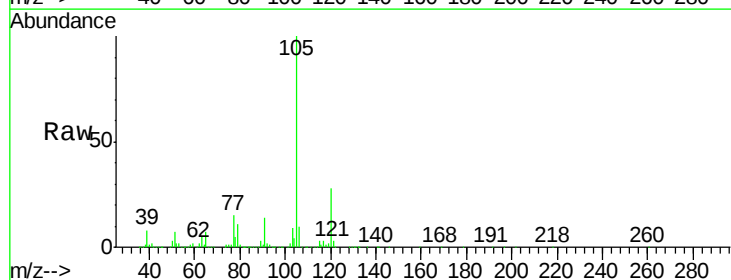
Manual Integrations  
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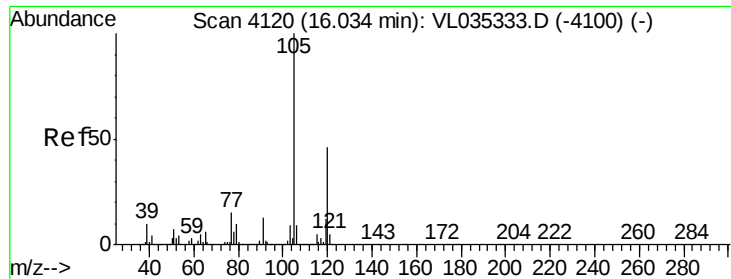
MMDadoda  
 8/12/2020 3:58:22 PM



#72  
 4-Ethyltoluene  
 Concen: 11.250 ppbv  
 RT: 15.87 min Scan# 4070  
 Delta R.T. -0.00 min  
 Lab File: VL035373.D  
 Acq: 10 Aug 2020 14:18

Tgt Ion: 105 Resp: 4220585  
 Ion Ratio Lower Upper  
 105 100  
 120 30.3 24.0 36.0  
 91 14.1 10.8 16.2  
 77 14.6 11.9 17.9





#73

1,3,5-Trimethylbenzene

Concen: 11.100 ppbv

RT: 16.03 min Scan# 4120

Delta R.T. 0.00 min

Lab File: VL035373.D

Acq: 10 Aug 2020 14:18

Instrument :

MSVOA\_L

ClientSampleId :

VL0810ABS01

Tot Ion:105 Resp: 3995840

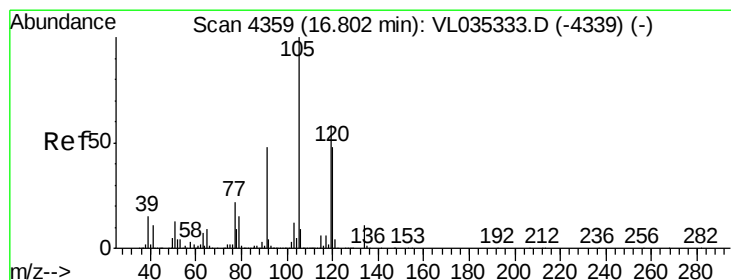
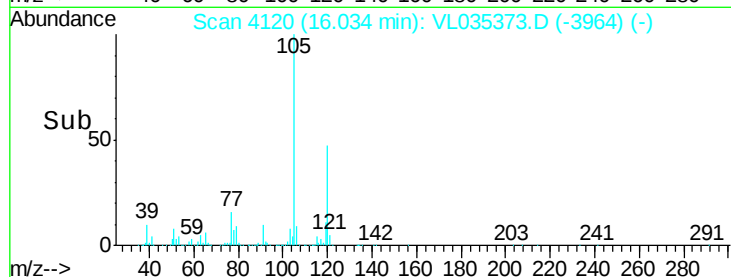
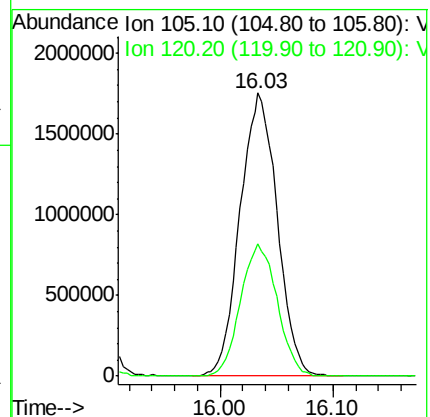
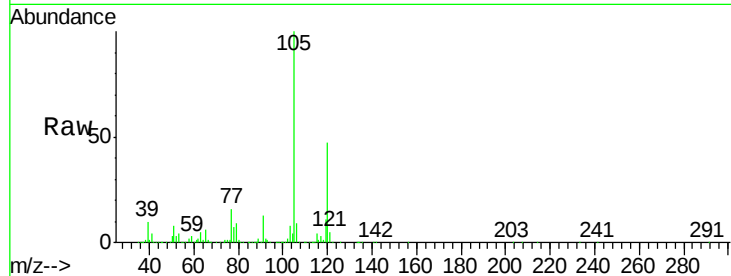
Ion Ratio Lower Upper

105 100

120 46.7 36.9 55.3

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#74

1,2,4-Trimethylbenzene

Concen: 10.380 ppbv

RT: 16.80 min Scan# 4359

Delta R.T. 0.00 min

Lab File: VL035373.D

Acq: 10 Aug 2020 14:18

Tgt Ion:105 Resp: 4270692

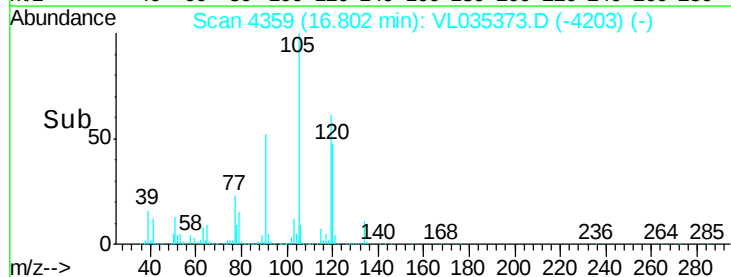
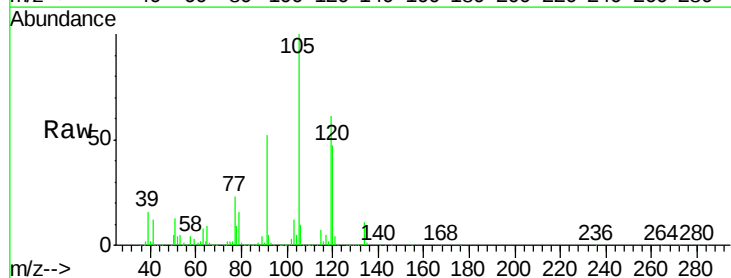
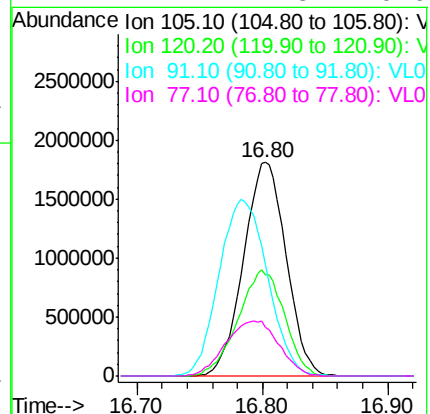
Ion Ratio Lower Upper

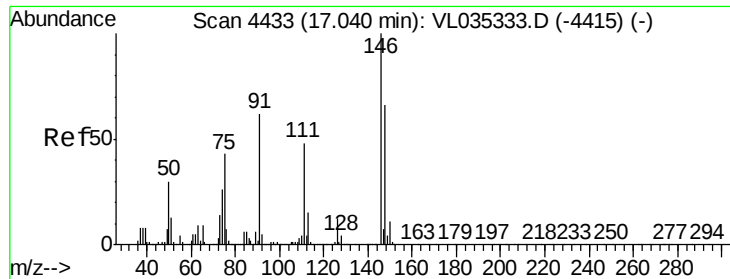
105 100

120 47.4 38.5 57.7

91 51.8 39.0 58.6

77 22.4 17.8 26.6





#75

1,3-Dichlorobenzene

Concen: 9.508 ppbv

RT: 17.04 min Scan# 4432

Delta R.T. -0.00 min

Lab File: VL035373.D

Acq: 10 Aug 2020 14:18

Instrument :

MSVOA\_L

ClientSampleId :

VL0810ABS01

Tot Ion:146 Resp: 2559076

Ion Ratio Lower Upper

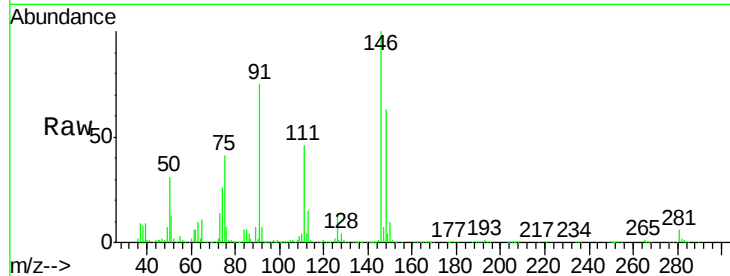
146 100

111 48.1 24.2 72.6

148 64.5 32.6 98.0

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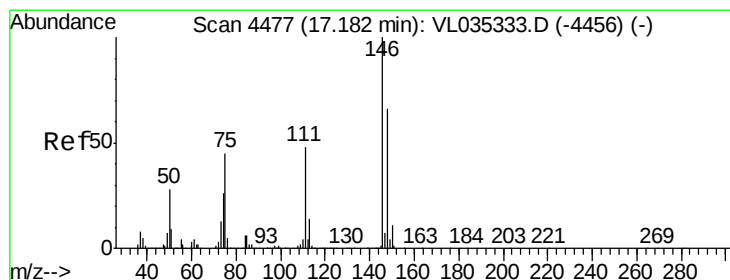
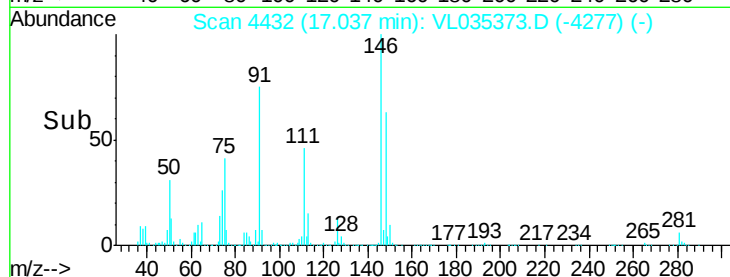
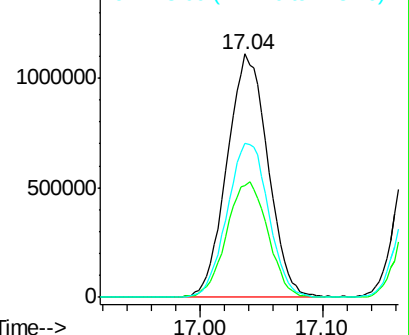
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Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 10.082 ppbv

RT: 17.18 min Scan# 4477

Delta R.T. 0.00 min

Lab File: VL035373.D

Acq: 10 Aug 2020 14:18

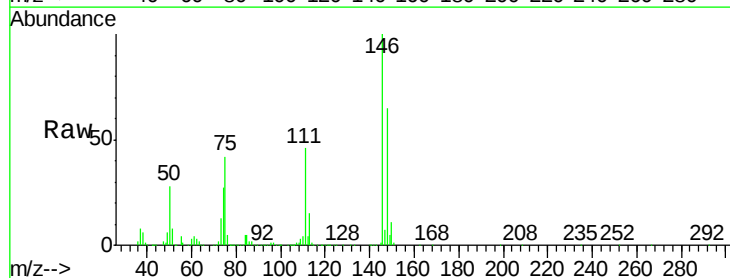
Tgt Ion:146 Resp: 2513027

Ion Ratio Lower Upper

146 100

111 46.8 23.3 69.9

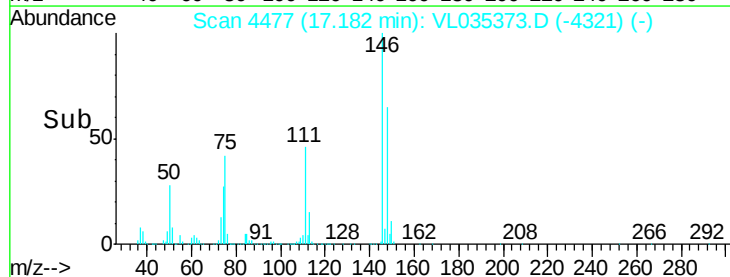
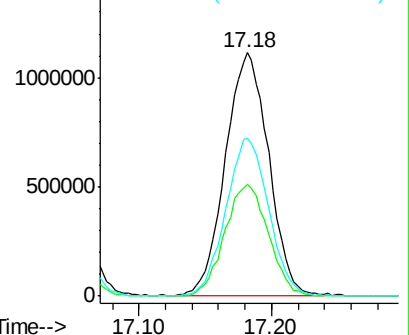
148 64.4 32.1 96.5

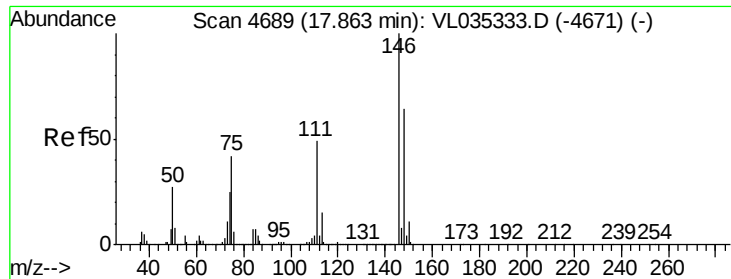


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





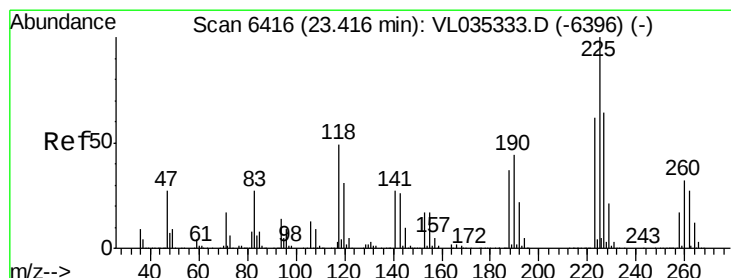
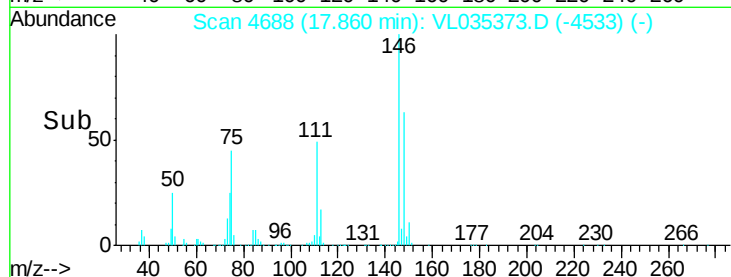
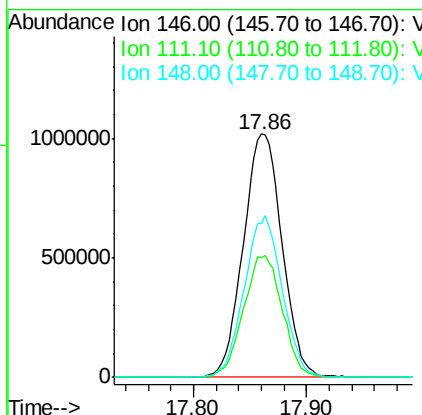
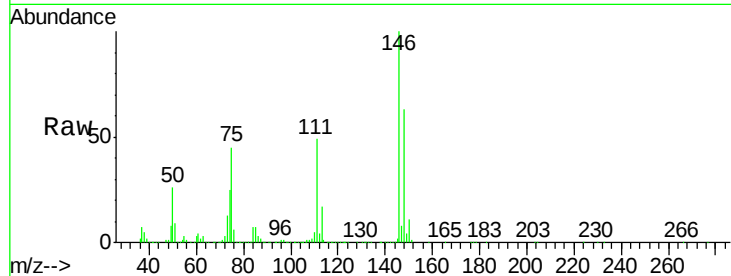
#77  
 1,2-Dichlorobenzene  
 Concen: 9.794 ppbv  
 RT: 17.86 min Scan# 4688  
 Delta R.T. -0.00 min  
 Lab File: VL035373.D  
 Acq: 10 Aug 2020 14:18

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0810ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 50.1  | 24.9  | 74.7  |
| 148     | 65.0  | 31.9  | 95.9  |

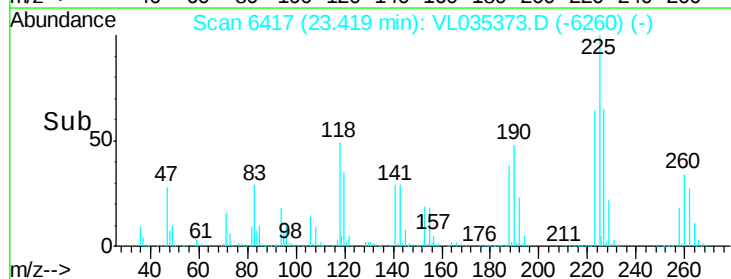
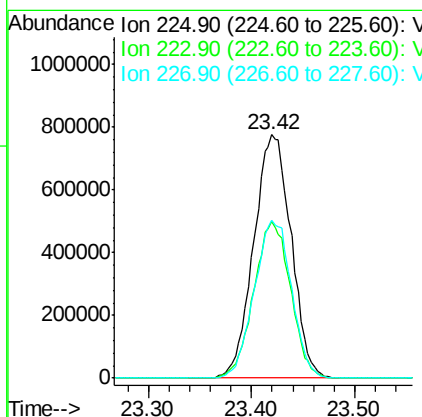
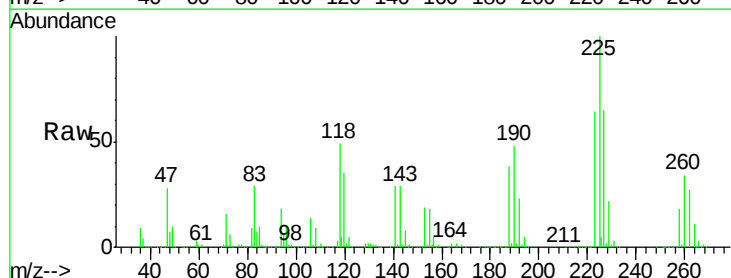
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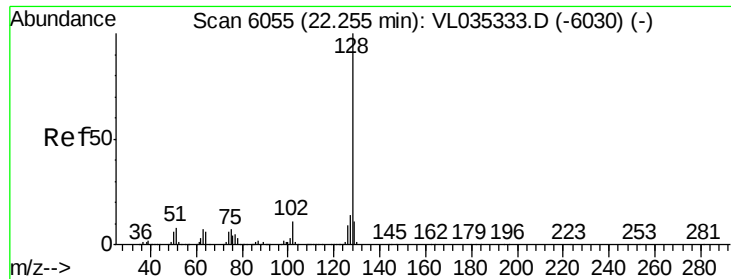
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#78  
 Hexachloro-1,3-Butadiene  
 Concen: 9.229 ppbv  
 RT: 23.42 min Scan# 6417  
 Delta R.T. 0.00 min  
 Lab File: VL035373.D  
 Acq: 10 Aug 2020 14:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 63.2  | 50.3  | 75.5  |
| 227     | 64.6  | 52.7  | 79.1  |





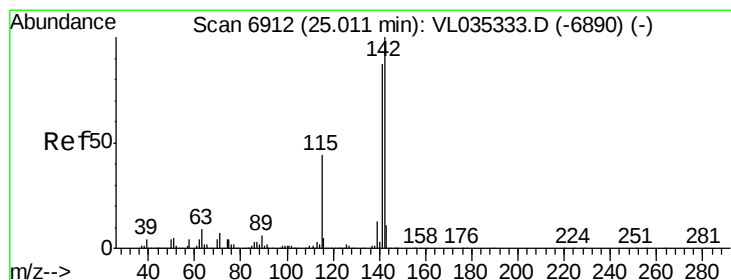
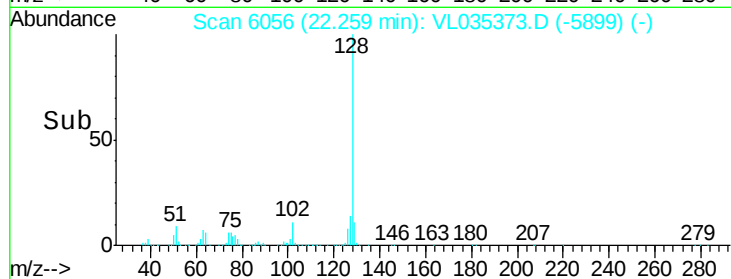
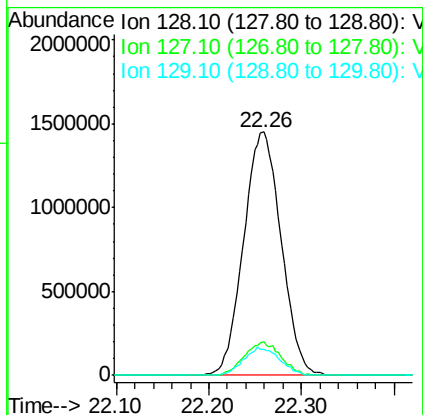
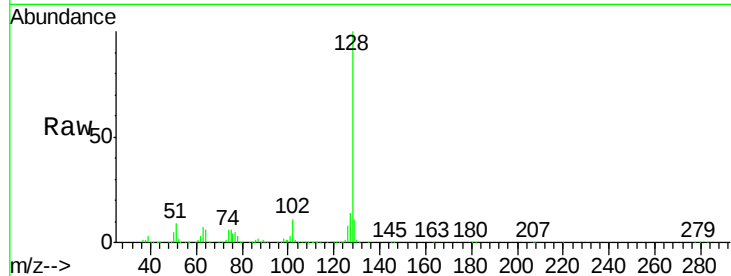
#79  
Naphthalene  
Concen: 12.869 ppbv  
RT: 22.26 min Scan# 6056  
Delta R.T. 0.00 min  
Lab File: VL035373.D  
Acq: 10 Aug 2020 14:18

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0810ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 13.6  | 11.1  | 16.7  |
| 129     | 10.9  | 8.7   | 13.1  |

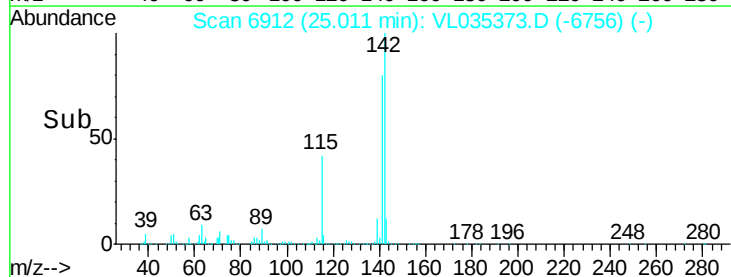
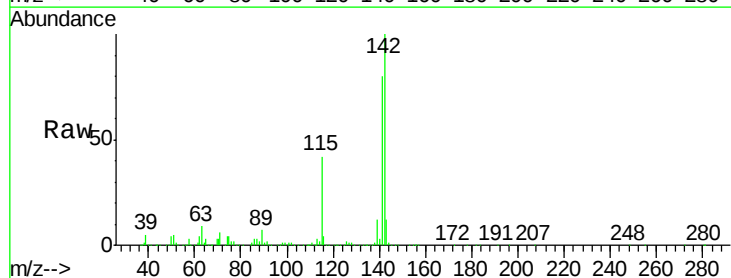
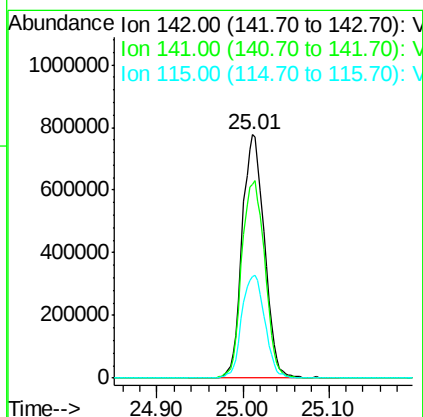
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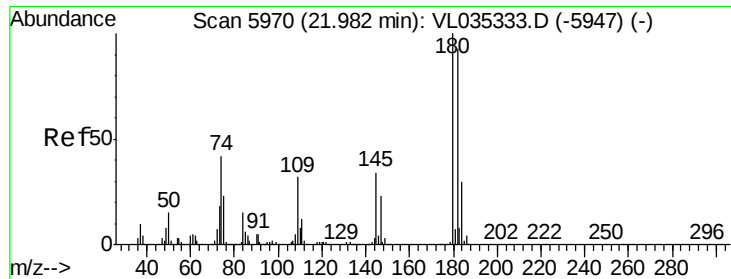
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#80  
Naphthalene, 2-methyl-  
Concen: 19.431 ppbv  
RT: 25.01 min Scan# 6912  
Delta R.T. 0.00 min  
Lab File: VL035373.D  
Acq: 10 Aug 2020 14:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 84.1  | 69.0  | 103.6 |
| 115     | 43.9  | 35.5  | 53.3  |





#81  
 1,2,4-Trichlorobenzene  
 Concen: 11.504 ppbv  
 RT: 21.99 min Scan# 5971  
 Delta R.T. 0.00 min  
 Lab File: VL035373.D  
 Acq: 10 Aug 2020 14:18

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0810ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.3  | 77.2  | 115.8 |
| 184     | 30.9  | 25.1  | 37.7  |

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