

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073021\  
 Data File : VL037295.D  
 Acq On : 30 Jul 2021 21:52  
 Operator : SY/AP  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL073021

Manual Integrations  
 APPROVED

MMDadoda  
 8/2/2021 8:57:57 AM

Quant Time: Jul 31 01:36:11 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL073021AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Jul 30 2021  
 QLast Update : Fri Jul 30 23:19:30 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.66  | 49   | 1288711  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.18  | 114  | 3995600  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.09 | 117  | 3869937m | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.42  | 95    | 2833711  | 10.06    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 100.60% |

| Target Compounds               |      |     |         |        | Ovalue   |
|--------------------------------|------|-----|---------|--------|----------|
| 2) Dichlorodifluoromethane     | 3.04 | 85  | 1493613 | 8.053  | ppbv 99  |
| 3) Chlorodifluoromethane       | 2.98 | 51  | 2445574 | 9.470  | ppbv 100 |
| 4) Chloromethane               | 3.13 | 50  | 876128  | 9.729  | ppbv 99  |
| 5) Vinyl Chloride              | 3.25 | 62  | 950062  | 9.764  | ppbv 94  |
| 6) Bromomethane                | 3.46 | 94  | 498718  | 9.038  | ppbv 98  |
| 7) Chloroethane                | 3.55 | 64  | 338544  | 9.872  | ppbv 98  |
| 8) Dichlorotetrafluoroethane   | 3.18 | 85  | 2080478 | 9.434  | ppbv 100 |
| 9) Propene                     | 3.00 | 41  | 840508  | 9.675  | ppbv 98  |
| 10) Heptane                    | 8.12 | 43  | 2077419 | 10.046 | ppbv 99  |
| 11) Trichlorofluoromethane     | 3.94 | 101 | 2205688 | 9.574  | ppbv 97  |
| 12) 1,1,2-Trichlorotrifluoroet | 4.48 | 101 | 1628270 | 9.501  | ppbv 98  |
| 13) Ethanol                    | 3.60 | 45  | 113324m | 5.935  | ppbv     |
| 14) Bromoethene                | 3.73 | 108 | 708188  | 9.779  | ppbv 97  |
| 15) Acetone                    | 3.84 | 43  | 1267112 | 5.459  | ppbv 100 |
| 16) 1,3-Butadiene              | 3.32 | 39  | 839987  | 9.647  | ppbv 97  |
| 17) tert-Butyl alcohol         | 4.28 | 59  | 1498546 | 10.153 | ppbv 99  |
| 18) 1,1-Dichloroethene         | 4.28 | 96  | 744098  | 9.879  | ppbv 98  |
| 19) Isopropyl Alcohol          | 3.96 | 45  | 871531  | 9.705  | ppbv 99  |
| 20) Methylene Chloride         | 4.34 | 84  | 659284  | 7.340  | ppbv 96  |
| 21) Allyl Chloride             | 4.41 | 41  | 1079120 | 10.442 | ppbv 97  |
| 22) trans-1,2-Dichloroethene   | 4.88 | 96  | 751522  | 10.454 | ppbv 99  |
| 23) Vinyl Acetate              | 5.07 | 43  | 1849701 | 9.444  | ppbv 98  |
| 24) 1,1-Dichloroethane         | 5.01 | 63  | 1463534 | 9.624  | ppbv 99  |
| 25) Ethyl Acetate              | 5.67 | 43  | 3290217 | 9.769  | ppbv 99  |
| 26) Hexane                     | 5.68 | 57  | 1626440 | 9.036  | ppbv 95  |
| 27) Carbon Disulfide           | 4.54 | 76  | 1711692 | 11.545 | ppbv 99  |
| 28) Methyl tert-Butyl Ether    | 5.03 | 73  | 1591250 | 9.152  | ppbv 99  |
| 29) Chloroform                 | 5.75 | 83  | 2466950 | 9.565  | ppbv 99  |
| 30) Cyclohexane                | 7.13 | 84  | 1453496 | 10.327 | ppbv 97  |
| 31) cis-1,2-Dichloroethene     | 5.54 | 61  | 1546444 | 10.138 | ppbv 97  |
| 32) 1,1,1-Trichloroethane      | 6.51 | 97  | 2537986 | 9.896  | ppbv 99  |
| 34) 2-Butanone                 | 5.24 | 43  | 1527685 | 8.911  | ppbv 98  |
| 35) Carbon Tetrachloride       | 7.01 | 117 | 2657008 | 10.493 | ppbv 99  |
| 36) Benzene                    | 6.89 | 78  | 3401891 | 10.056 | ppbv 98  |
| 37) 1,2-Dichloroethane         | 6.30 | 62  | 1812363 | 10.284 | ppbv 99  |
| 38) Trichloroethene            | 7.83 | 130 | 1493368 | 9.782  | ppbv 98  |
| 39) 1,2-Dichloropropane        | 7.61 | 63  | 1281162 | 10.071 | ppbv 99  |
| 40) 1,4-Dioxane                | 7.83 | 88  | 317827  | 8.672  | ppbv 84  |
| 41) Tetrahydrofuran            | 6.05 | 42  | 768408  | 11.154 | ppbv 100 |
| 42) Bromodichloromethane       | 7.79 | 83  | 2625053 | 10.678 | ppbv 96  |
| 43) Methyl Methacrylate        | 8.01 | 69  | 1227874 | 10.920 | ppbv 99  |

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Instrument :  
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Manual Integrations  
 APPROVED

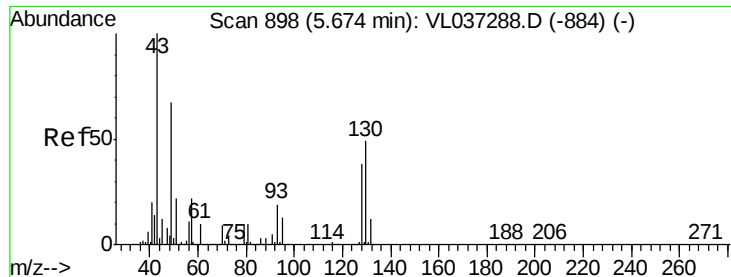
MMDadoda  
 8/2/2021 8:57:57 AM

Quant Time: Jul 31 01:36:11 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL073021AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Jul 30 2021  
 QLast Update : Fri Jul 30 23:19:30 2021  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.87  | 57   | 5465619  | 9.883  | ppbv  | 100      |
| 45) t-1,3-Dichloropropene     | 9.28  | 75   | 1014827  | 10.770 | ppbv  | 96       |
| 46) cis-1,3-Dichloropropene   | 8.70  | 75   | 1358680  | 10.691 | ppbv  | 99       |
| 47) 1,1,2-Trichloroethane     | 9.47  | 97   | 1432371  | 10.037 | ppbv  | 99       |
| 48) Dibromochloromethane      | 10.30 | 129  | 2462401  | 11.270 | ppbv  | 100      |
| 49) Bromoform                 | 13.04 | 173  | 2084636  | 12.282 | ppbv  | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.74  | 43   | 2341097  | 10.783 | ppbv  | 99       |
| 51) 2-Hexanone                | 10.14 | 43   | 1225931  | 12.230 | ppbv  | 99       |
| 52) Tetrachloroethene         | 11.22 | 164  | 1427977  | 9.576  | ppbv  | 97       |
| 53) Toluene                   | 9.81  | 91   | 4083335  | 10.267 | ppbv  | 100      |
| 54) 1,2-Dibromoethane         | 10.61 | 107  | 2074187  | 10.280 | ppbv  | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 12.13 | 131  | 1715698  | 10.128 | ppbv  | 96       |
| 57) Chlorobenzene             | 12.15 | 112  | 3141919  | 9.706  | ppbv  | 99       |
| 58) Ethyl Benzene             | 12.71 | 91   | 5400279  | 10.150 | ppbv  | 99       |
| 59) m/p-Xylene                | 13.00 | 91   | 8998630m | 19.646 | ppbv  |          |
| 60) o-Xylene                  | 13.70 | 91   | 4297698  | 9.818  | ppbv  | 100      |
| 61) Styrene                   | 13.53 | 104  | 2520277  | 11.264 | ppbv  | 100      |
| 62) Isopropylbenzene          | 14.67 | 105  | 6097906  | 9.863  | ppbv  | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.68 | 83   | 2954494  | 9.570  | ppbv  | 100      |
| 64) n-propylbenzene           | 15.56 | 120  | 1656444  | 10.332 | ppbv  | 98       |
| 65) tert-Butylbenzene         | 16.75 | 119  | 5571402  | 9.736  | ppbv  | 100      |
| 66) Benzyl Chloride           | 17.00 | 91   | 246891m  | 8.780  | ppbv  |          |
| 67) sec-Butylbenzene          | 17.30 | 105  | 7403547  | 9.785  | ppbv  | 100      |
| 69) p-Isopropyltoluene        | 17.66 | 119  | 6456510  | 9.968  | ppbv  | 100      |
| 70) n-Butylbenzene            | 18.55 | 91   | 6067533  | 9.926  | ppbv  | 100      |
| 71) 2-Chlorotoluene           | 15.46 | 91   | 4394652  | 9.973  | ppbv  | 100      |
| 72) 4-Ethyltoluene            | 15.84 | 105  | 5359605  | 10.340 | ppbv  | 100      |
| 73) 1,3,5-Trimethylbenzene    | 16.00 | 105  | 4794133  | 10.014 | ppbv  | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.77 | 105  | 5002894  | 9.479  | ppbv  | 99       |
| 75) 1,3-Dichlorobenzene       | 17.00 | 146  | 3130014  | 9.863  | ppbv  | 99       |
| 76) 1,4-Dichlorobenzene       | 17.14 | 146  | 3121673  | 9.527  | ppbv  | 99       |
| 77) 1,2-Dichlorobenzene       | 17.82 | 146  | 3018467  | 9.908  | ppbv  | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.38 | 225  | 1944960  | 8.511  | ppbv  | 100      |
| 79) Naphthalene               | 22.20 | 128  | 3722511  | 9.006  | ppbv  | 98       |
| 80) Naphthalene, 2-methyl-    | 24.98 | 142  | 1248945  | 10.507 | ppbv  | 99       |
| 81) 1,2,4-Trichlorobenzene    | 21.93 | 180  | 2248094m | 9.012  | ppbv  |          |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.01 min

Lab File: VL037295.D

Acq: 30 Jul 2021 21:52

Instrument :

MSVOA\_L

ClientSampleId :

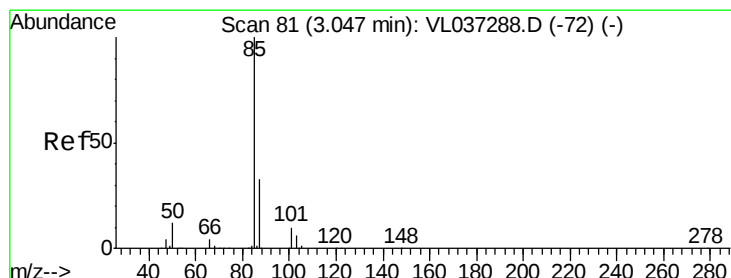
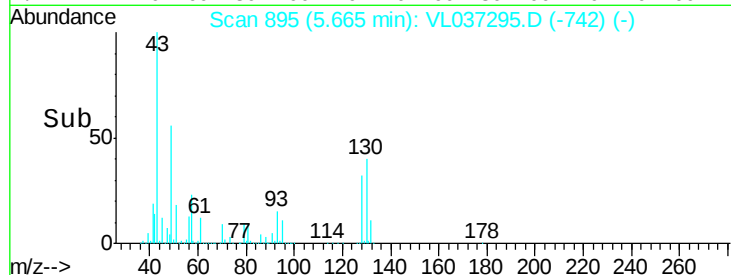
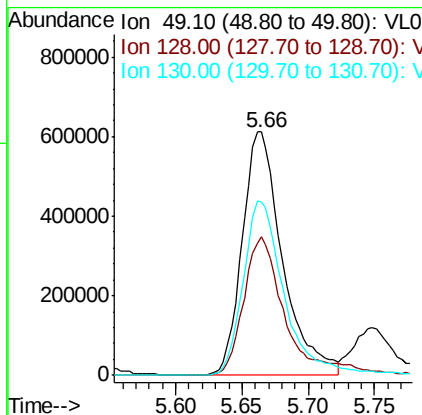
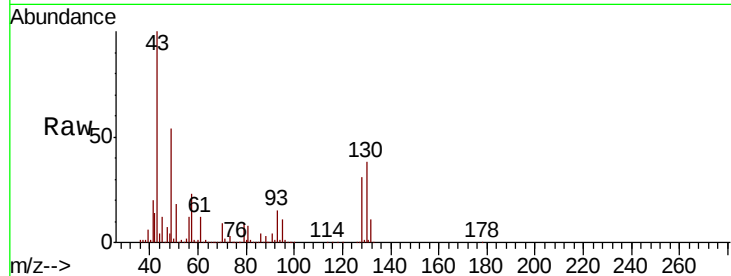
ICVVL073021

Tot Ion: 49 Resp: 1288711

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 49  | 100   |       |       |
| 128 | 60.4  | 30.6  | 92.0  |
| 130 | 74.8  | 37.8  | 113.4 |

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#2

Dichlorodifluoromethane

Concen: 8.053 ppbv

RT: 3.04 min Scan# 78

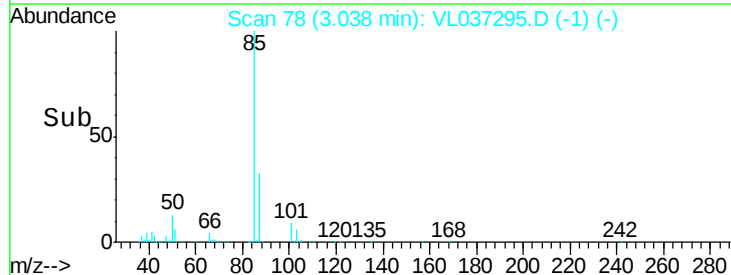
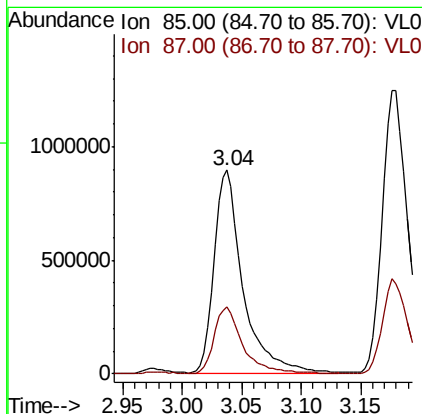
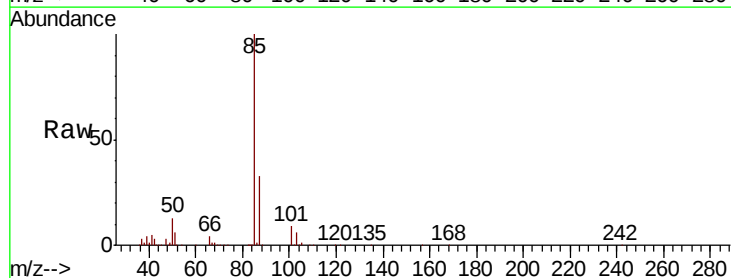
Delta R.T. -0.01 min

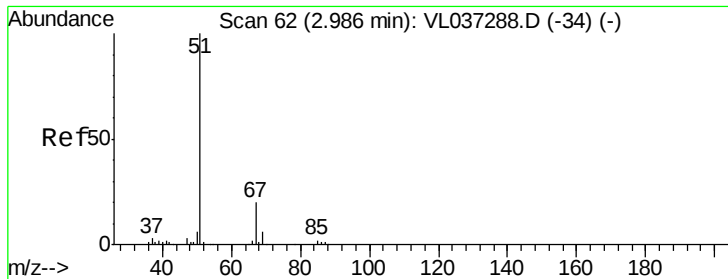
Lab File: VL037295.D

Acq: 30 Jul 2021 21:52

Tgt Ion: 85 Resp: 1493613

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 85  | 100   |       |       |
| 87  | 32.9  | 26.6  | 40.0  |





#3

Chlorodifluoromethane

Concen: 9.470 ppbv

RT: 2.98 min Scan# 59

Delta R.T. -0.01 min

Lab File: VL037295.D

Acq: 30 Jul 2021 21:52

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL073021

Tot Ion: 51 Resp: 2445574

Ion Ratio Lower Upper

51 100

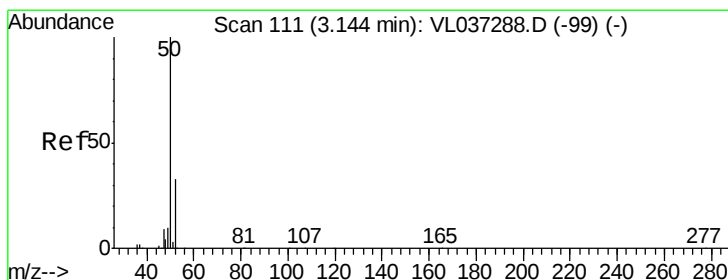
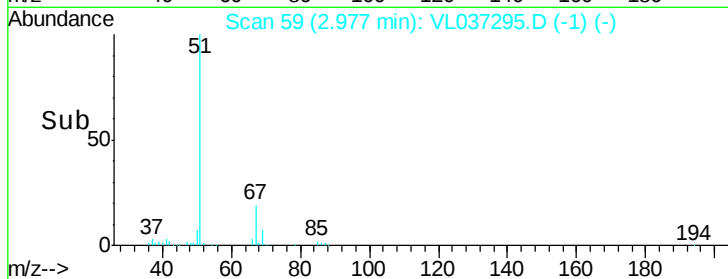
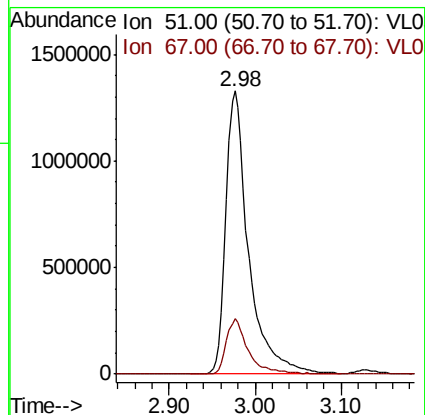
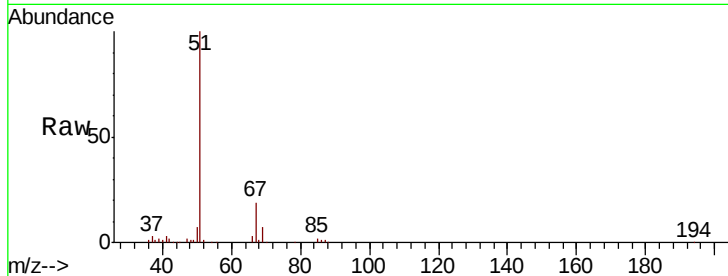
67 19.0 15.2 22.8

Manual Integrations

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#4

Chloromethane

Concen: 9.729 ppbv

RT: 3.13 min Scan# 107

Delta R.T. -0.01 min

Lab File: VL037295.D

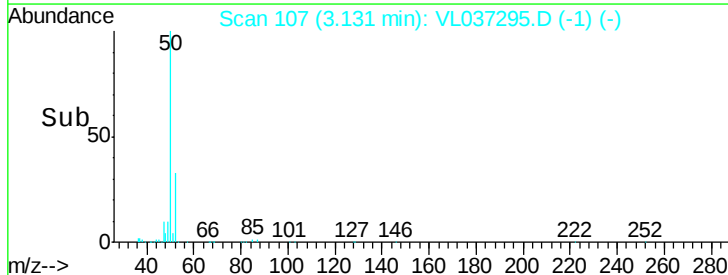
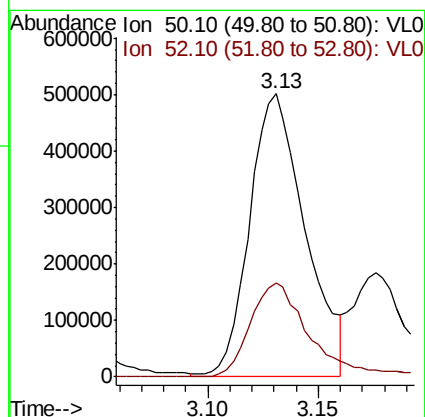
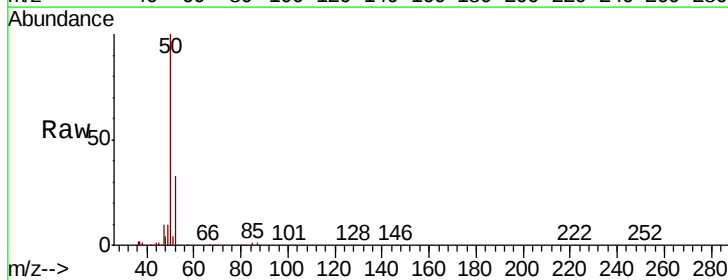
Acq: 30 Jul 2021 21:52

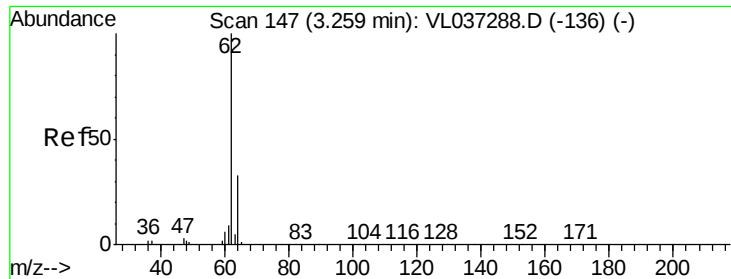
Tgt Ion: 50 Resp: 876128

Ion Ratio Lower Upper

50 100

52 33.5 26.2 39.4





#5

Vinyl Chloride

Concen: 9.764 ppbv

RT: 3.25 min Scan# 143

Delta R.T. -0.01 min

Lab File: VL037295.D

Acq: 30 Jul 2021 21:52

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL073021

Tot Ion: 62 Resp: 950062

Ion Ratio Lower Upper

62 100

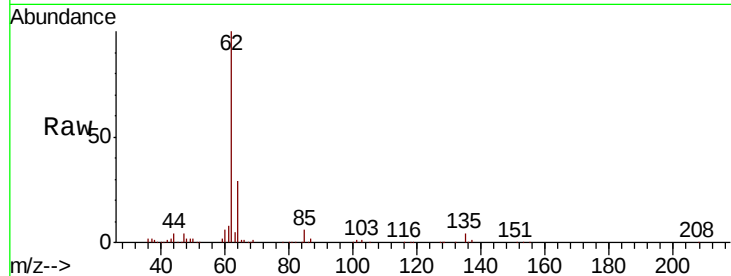
64 29.2 26.1 39.1

Manual Integrations

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.25

500000

400000

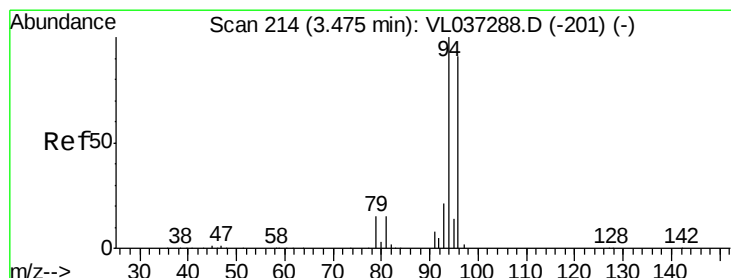
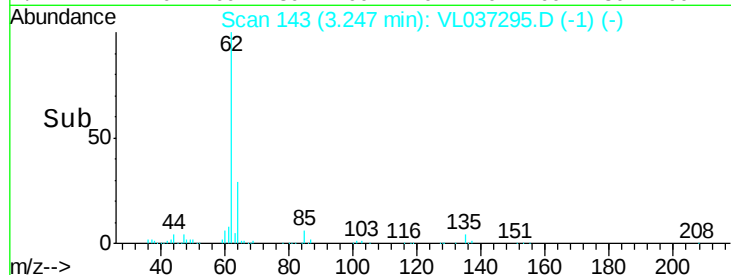
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 9.038 ppbv

RT: 3.46 min Scan# 210

Delta R.T. -0.01 min

Lab File: VL037295.D

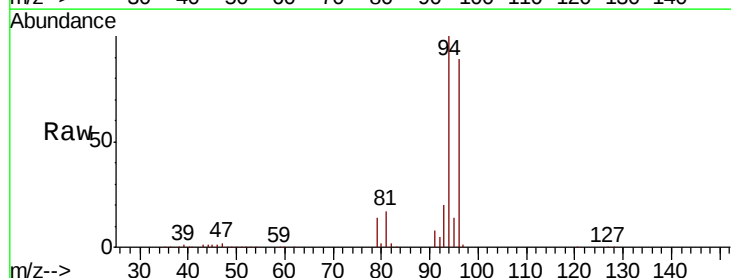
Acq: 30 Jul 2021 21:52

Tgt Ion: 94 Resp: 498718

Ion Ratio Lower Upper

94 100

96 88.7 72.7 109.1



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.46

300000

250000

200000

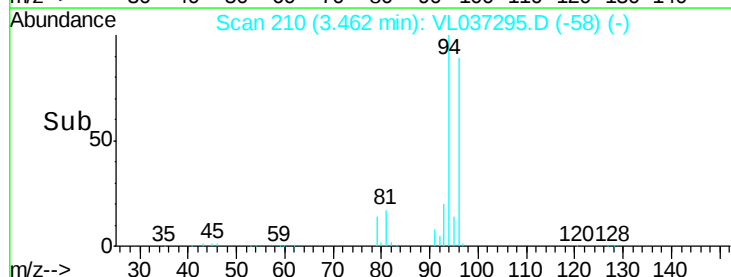
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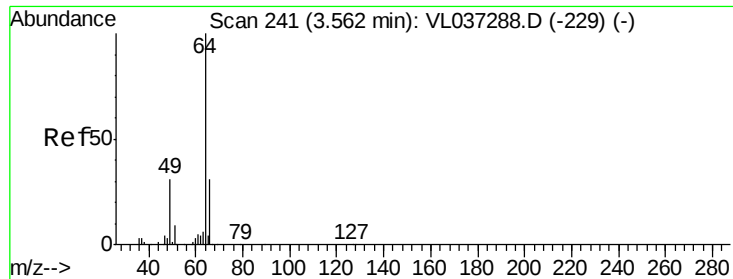
100000

50000

0

Time-->





#7

Chloroethane

Concen: 9.872 ppbv

RT: 3.55 min Scan# 237

Delta R.T. -0.01 min

Lab File: VL037295.D

Acq: 30 Jul 2021 21:52

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL073021

Tot Ion: 64 Resp: 338544

Ion Ratio Lower Upper

64 100

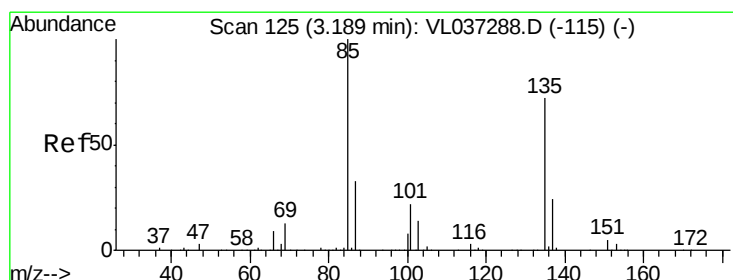
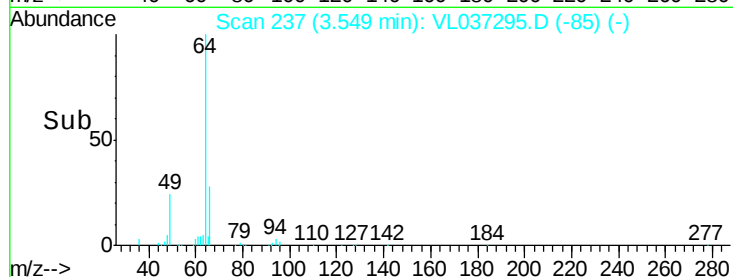
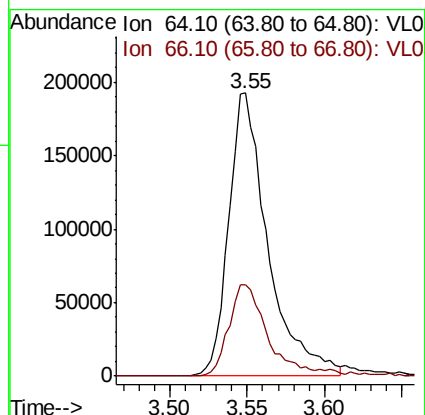
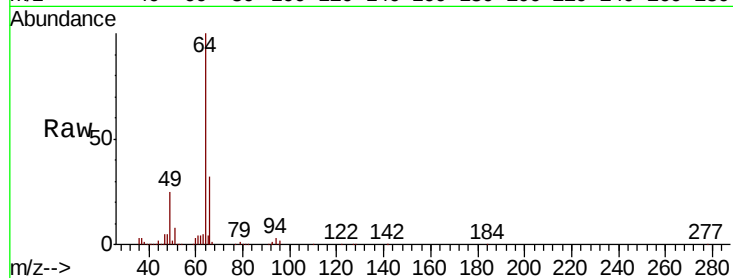
66 32.2 24.9 37.3

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 9.434 ppbv

RT: 3.18 min Scan# 121

Delta R.T. -0.01 min

Lab File: VL037295.D

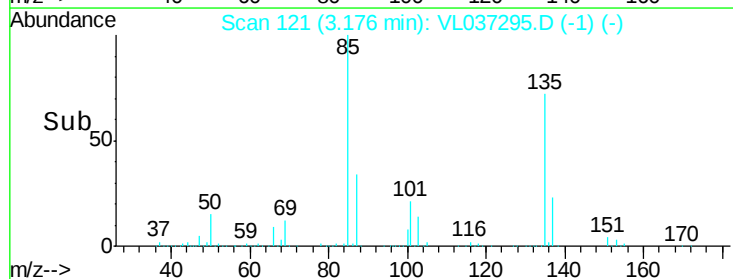
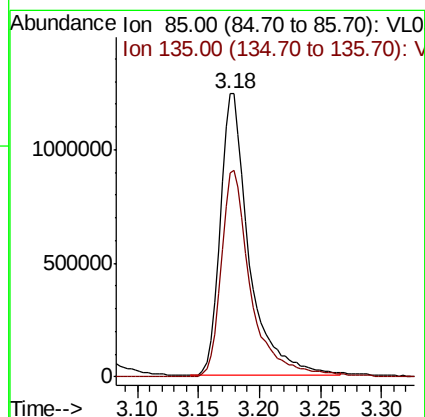
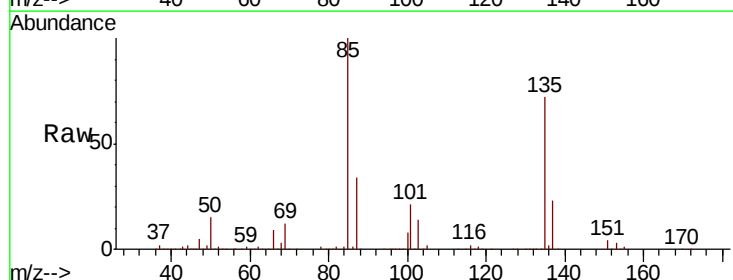
Acq: 30 Jul 2021 21:52

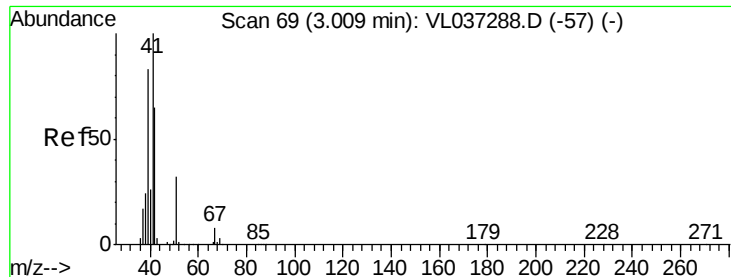
Tgt Ion: 85 Resp: 2080478

Ion Ratio Lower Upper

85 100

135 76.0 61.0 91.4





#9

Propene

Concen: 9.675 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.01 min

Lab File: VL037295.D

Acq: 30 Jul 2021 21:52

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL073021

Tot Ion: 41 Resp: 840508

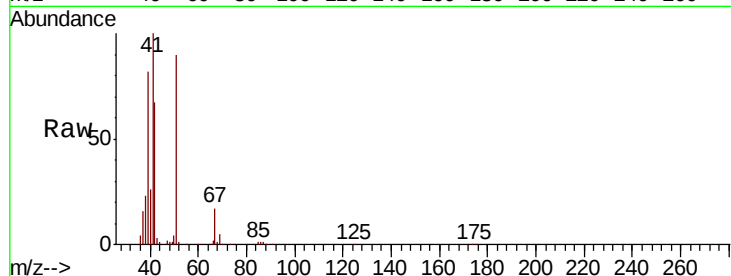
Ion Ratio Lower Upper

41 100

42 65.9 54.0 81.0

Manual Integrations  
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.00

500000

400000

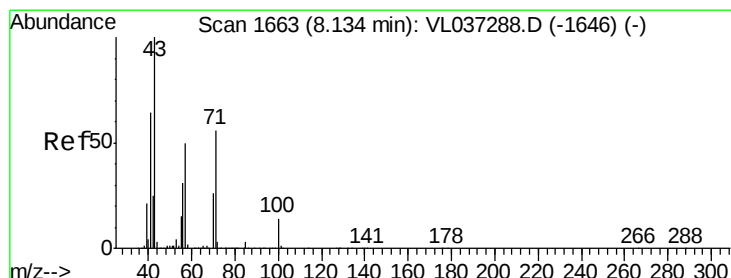
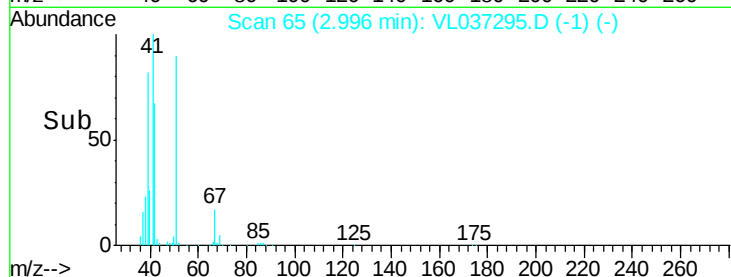
300000

200000

100000

0

Time--> 2.90 3.00 3.10



#10

Heptane

Concen: 10.046 ppbv

RT: 8.12 min Scan# 1659

Delta R.T. -0.01 min

Lab File: VL037295.D

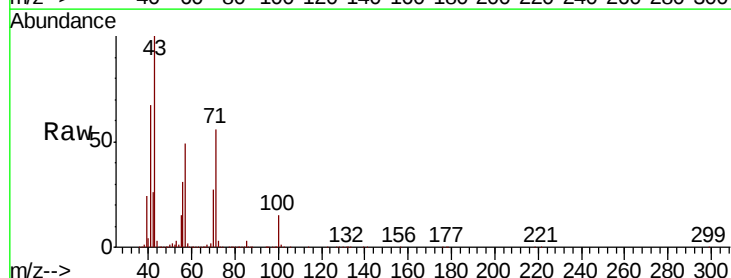
Acq: 30 Jul 2021 21:52

Tgt Ion: 43 Resp: 2077419

Ion Ratio Lower Upper

43 100

57 51.9 40.9 61.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

8.12

1000000

800000

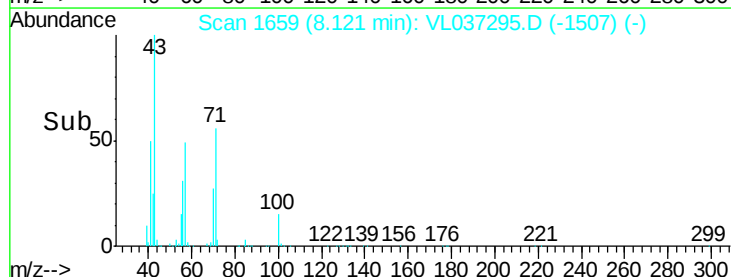
600000

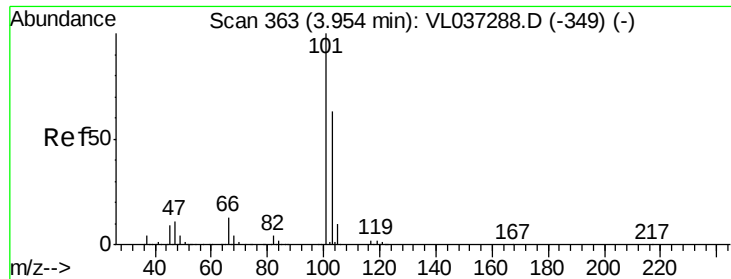
400000

200000

0

Time--> 8.05 8.10 8.15 8.20





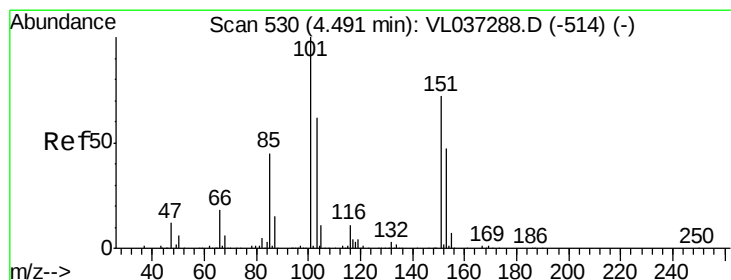
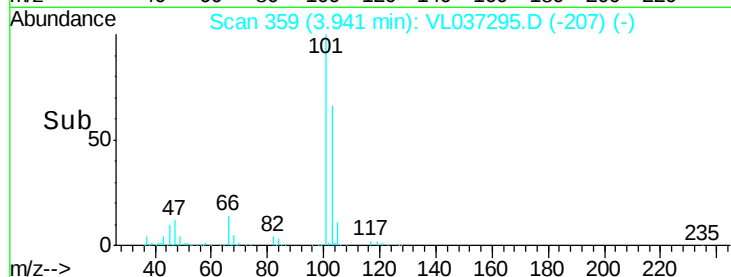
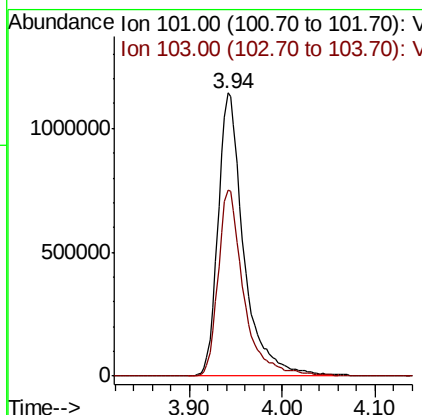
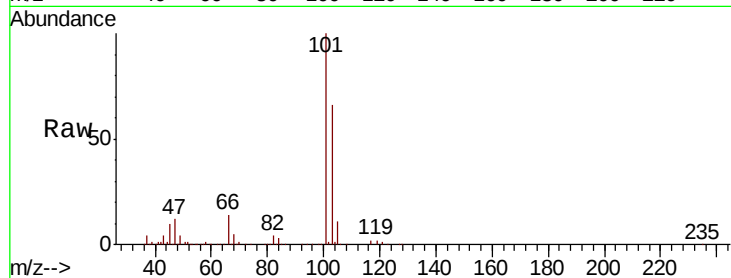
#11  
 Trichlorofluoromethane  
 Concen: 9.574 ppbv  
 RT: 3.94 min Scan# 359  
 Delta R.T. -0.01 min  
 Lab File: VL037295.D  
 Acq: 30 Jul 2021 21:52

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL073021

Tot Ion:101 Resp: 2205688  
 Ion Ratio Lower Upper  
 101 100  
 103 65.9 50.6 75.8

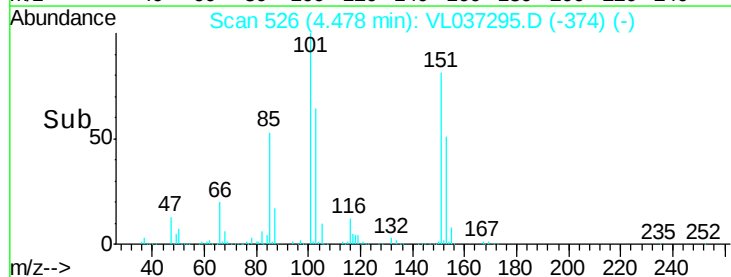
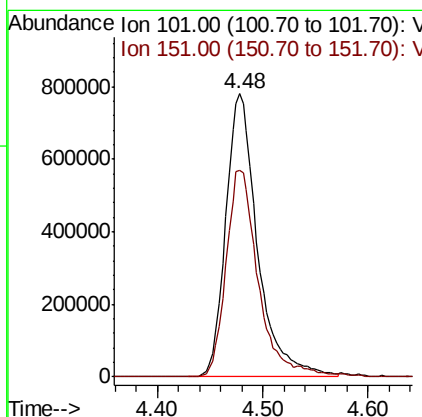
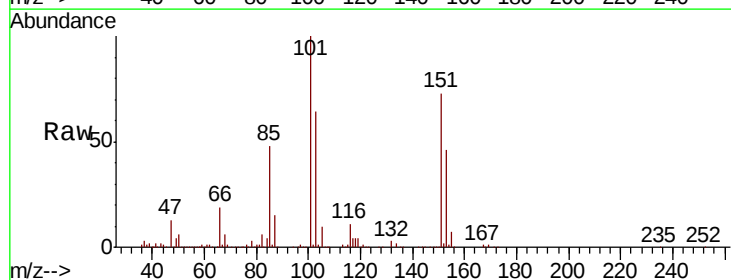
Manual Integrations  
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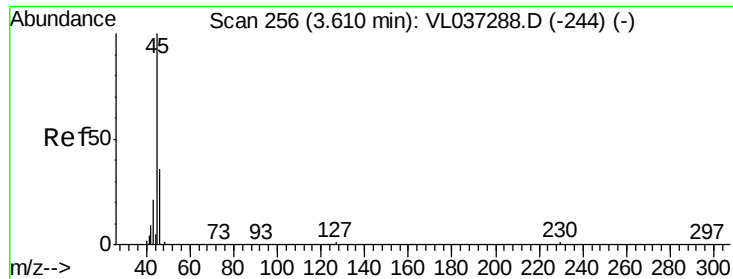
MMDadoda  
 8/2/2021 8:57:57 AM



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 9.501 ppbv  
 RT: 4.48 min Scan# 526  
 Delta R.T. -0.01 min  
 Lab File: VL037295.D  
 Acq: 30 Jul 2021 21:52

Tgt Ion:101 Resp: 1628270  
 Ion Ratio Lower Upper  
 101 100  
 151 74.7 61.4 92.0





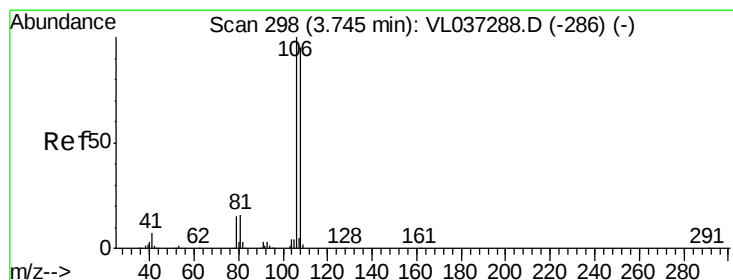
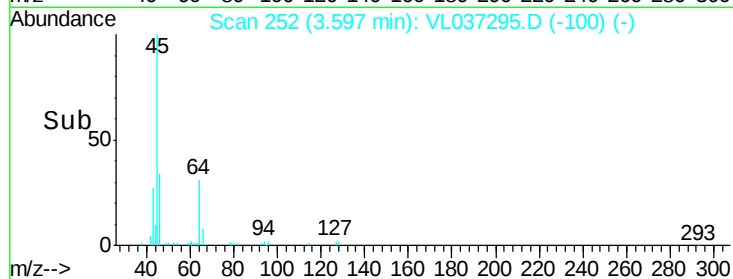
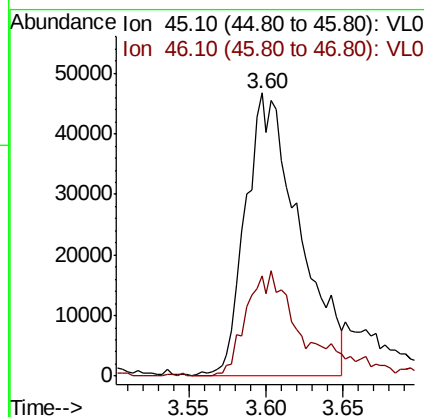
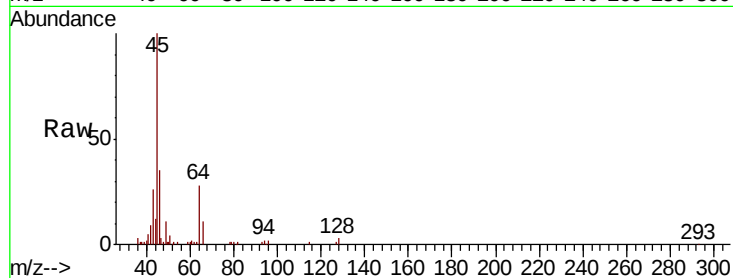
#13  
Ethanol  
Concen: 5.935 ppbv m  
RT: 3.60 min Scan# 252  
Delta R.T. -0.01 min  
Lab File: VL037295.D  
Acq: 30 Jul 2021 21:52

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL073021

| Tot Ion   | 45   | Resp  | 113324 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 46        | 39.7 | 16.2  | 64.8   |

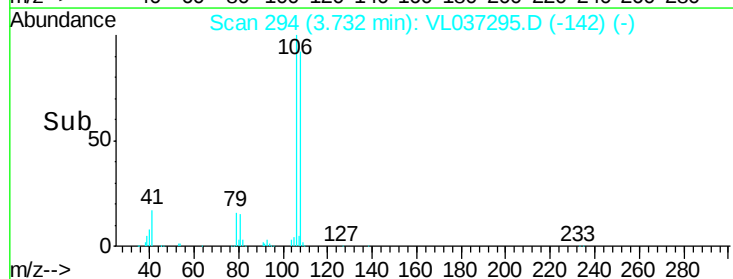
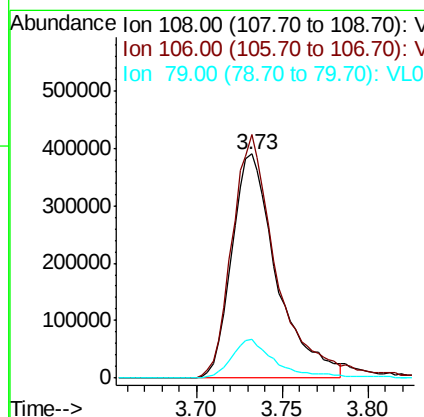
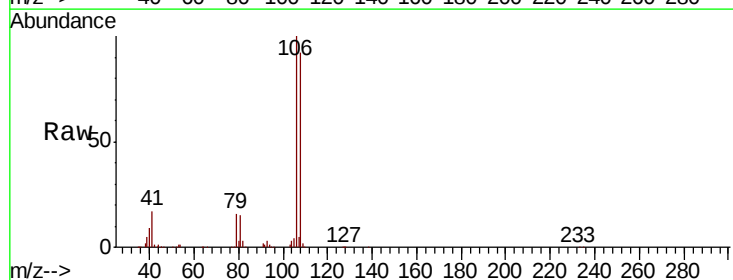
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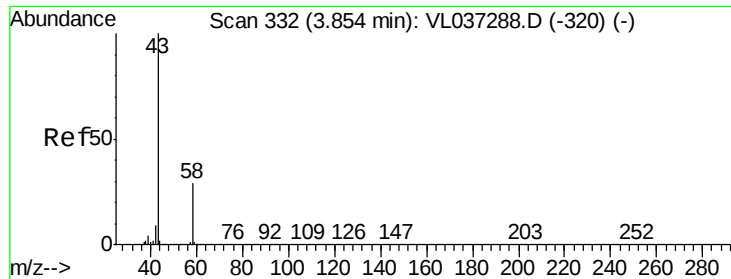
MMDadoda  
8/2/2021 8:57:57 AM



#14  
Bromoethene  
Concen: 9.779 ppbv  
RT: 3.73 min Scan# 294  
Delta R.T. -0.01 min  
Lab File: VL037295.D  
Acq: 30 Jul 2021 21:52

| Tgt Ion   | 108   | Resp  | 708188 |
|-----------|-------|-------|--------|
| Ion Ratio | 100   | Lower | Upper  |
| 106       | 110.9 | 86.2  | 129.2  |
| 79        | 17.7  | 13.3  | 19.9   |





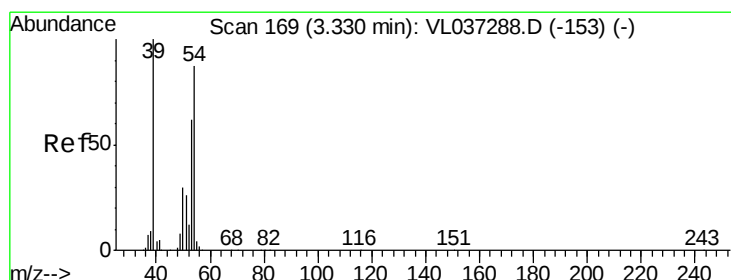
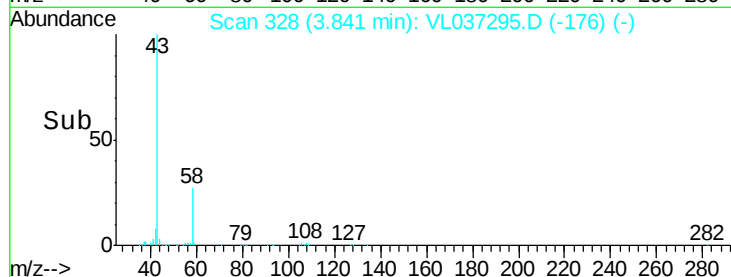
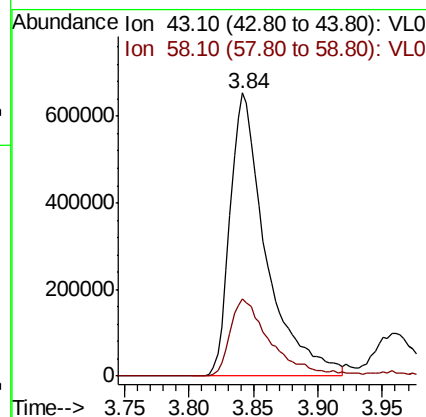
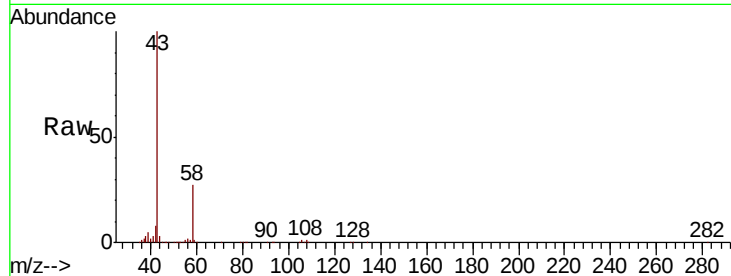
#15  
Acetone  
Concen: 5.459 ppbv  
RT: 3.84 min Scan# 328  
Delta R.T. -0.01 min  
Lab File: VL037295.D  
Acq: 30 Jul 2021 21:52

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL073021

Tot Ion: 43 Resp: 1267112  
Ion Ratio Lower Upper  
43 100  
58 30.5 24.2 36.4

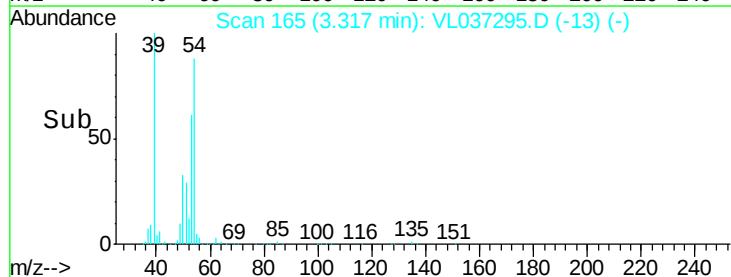
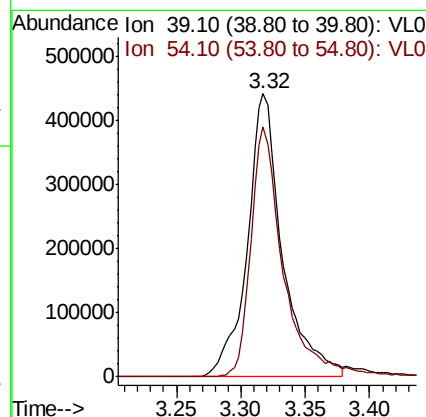
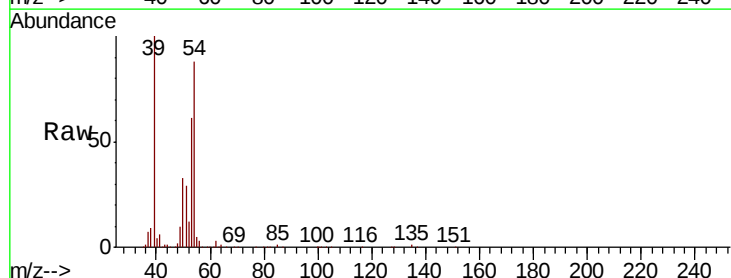
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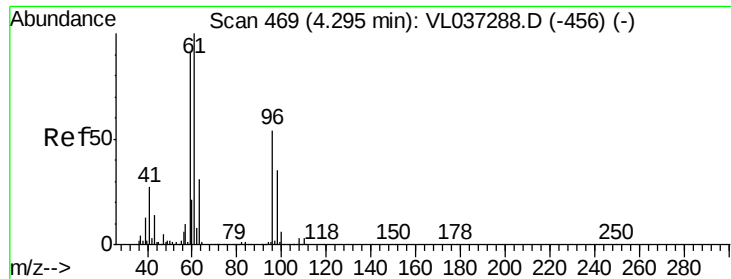
MMDadoda  
8/2/2021 8:57:57 AM



#16  
1,3-Butadiene  
Concen: 9.647 ppbv  
RT: 3.32 min Scan# 165  
Delta R.T. -0.01 min  
Lab File: VL037295.D  
Acq: 30 Jul 2021 21:52

Tgt Ion: 39 Resp: 839987  
Ion Ratio Lower Upper  
39 100  
54 82.3 63.9 95.9





#17

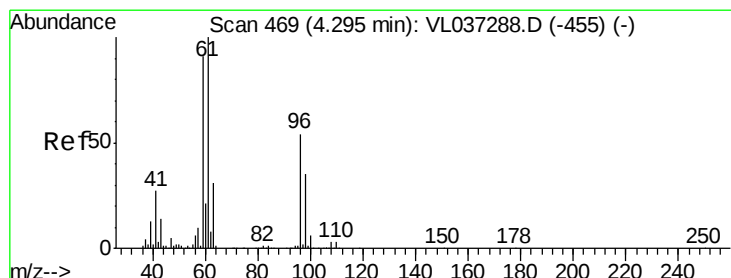
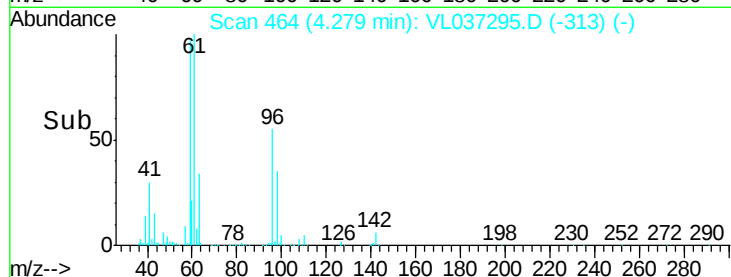
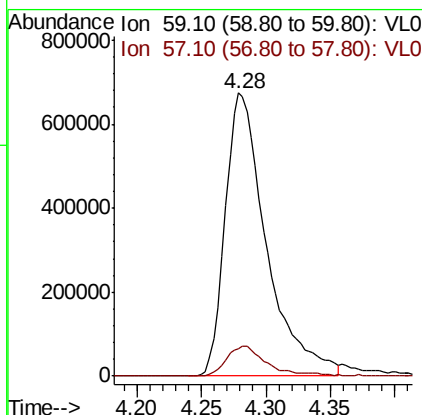
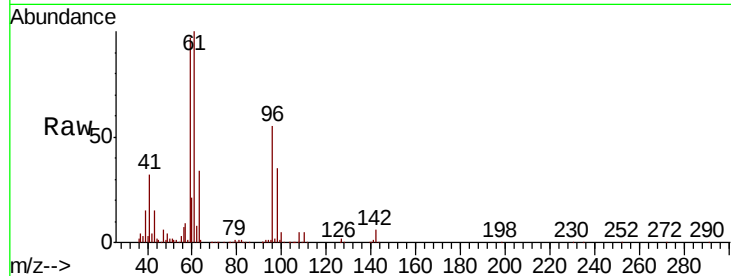
tert-Butyl alcohol  
 Concen: 10.153 ppbv  
 RT: 4.28 min Scan# 464  
 Delta R.T. -0.02 min  
 Lab File: VL037295.D  
 Acq: 30 Jul 2021 21:52

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL073021

Tot Ion: 59 Resp: 1498546  
 Ion Ratio Lower Upper  
 59 100  
 57 11.0 8.6 13.0

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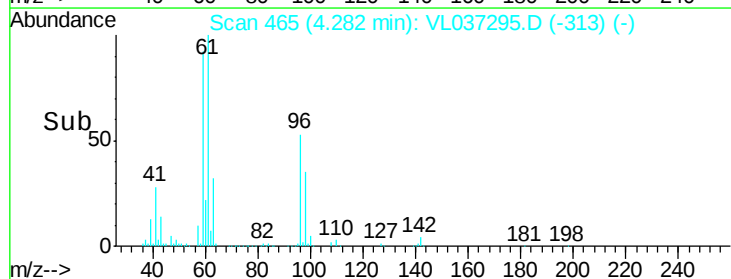
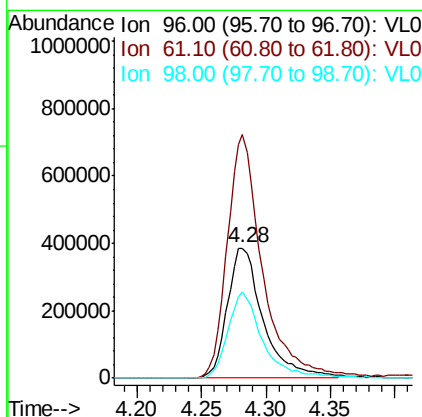
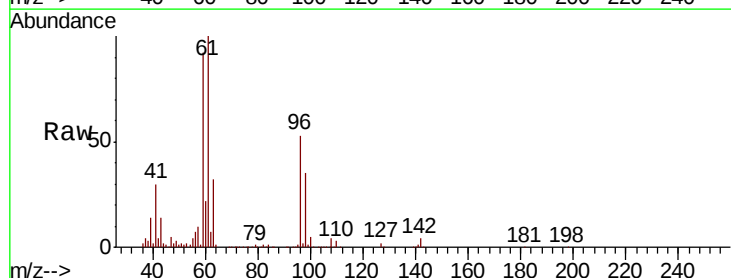
MMDadoda  
 8/2/2021 8:57:57 AM

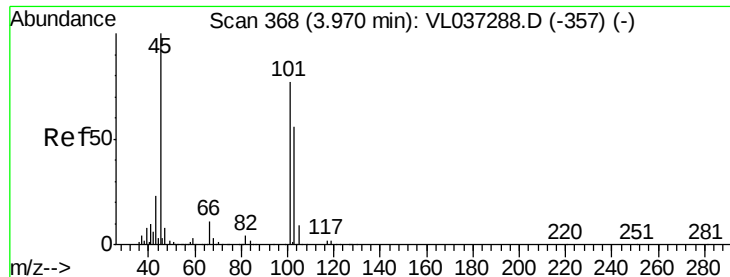


#18

1,1-Dichloroethene  
 Concen: 9.879 ppbv  
 RT: 4.28 min Scan# 465  
 Delta R.T. -0.01 min  
 Lab File: VL037295.D  
 Acq: 30 Jul 2021 21:52

Tgt Ion: 96 Resp: 744098  
 Ion Ratio Lower Upper  
 96 100  
 61 187.7 148.3 222.5  
 98 66.0 51.4 77.0





#19

Isopropyl Alcohol

Concen: 9.705 ppbv

RT: 3.96 min Scan# 364

Delta R.T. -0.01 min

Lab File: VL037295.D

Acq: 30 Jul 2021 21:52

Tot Ion: 45 Resp: 871531

Ion Ratio Lower Upper

45 100

58 3.0 2.2 3.2

Instrument :

MSVOA\_L

ClientSampleId :

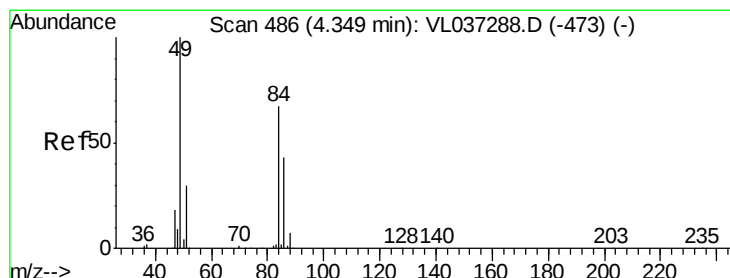
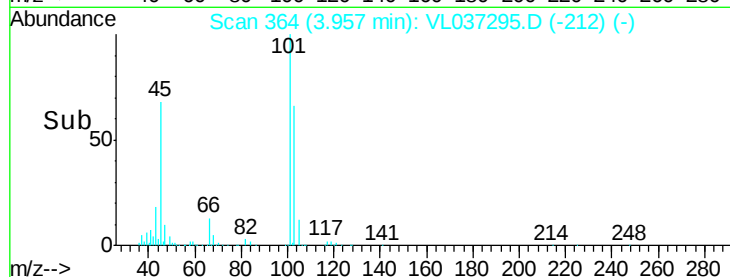
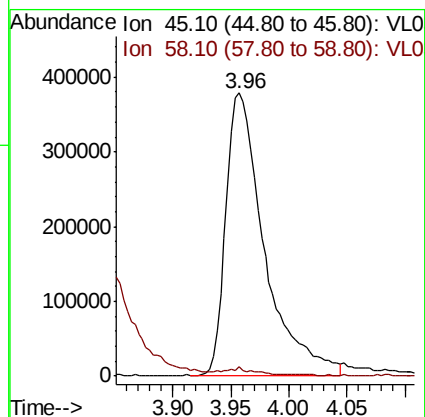
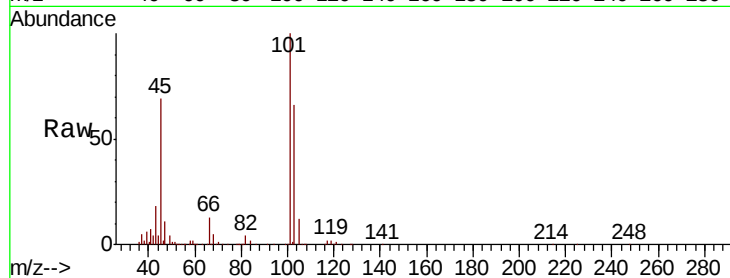
ICVVL073021

Manual Integrations

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#20

Methylene Chloride

Concen: 7.340 ppbv

RT: 4.34 min Scan# 482

Delta R.T. -0.01 min

Lab File: VL037295.D

Acq: 30 Jul 2021 21:52

Tgt Ion: 84 Resp: 659284

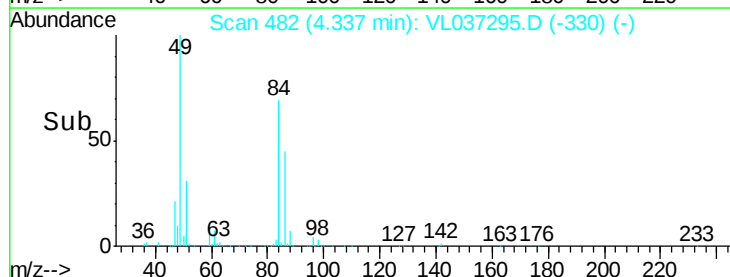
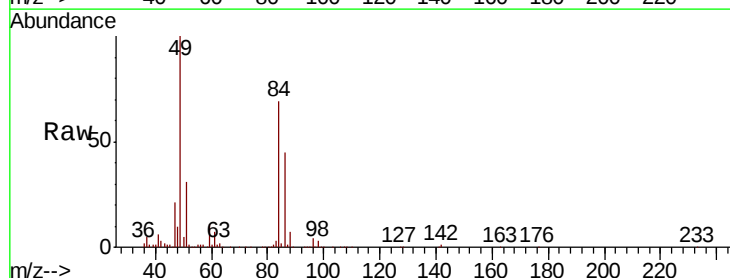
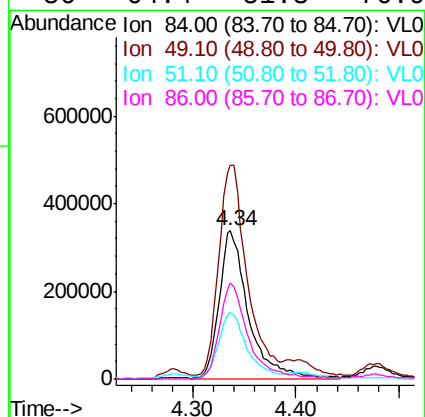
Ion Ratio Lower Upper

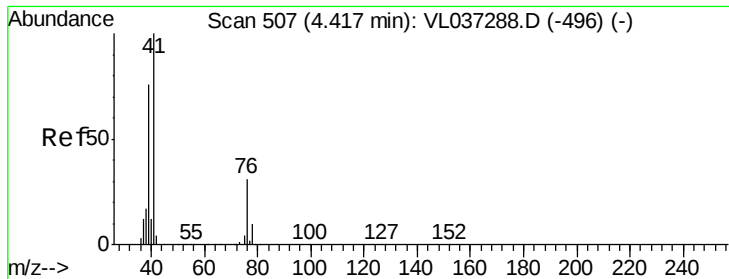
84 100

49 141.8 120.2 180.4

51 44.1 36.5 54.7

86 64.4 51.3 76.9





#21

Allvl Chloride

Concen: 10.442 ppbv

RT: 4.41 min Scan# 504

Delta R.T. -0.01 min

Lab File: VL037295.D

Acq: 30 Jul 2021 21:52

Instrument :

MSVOA\_L

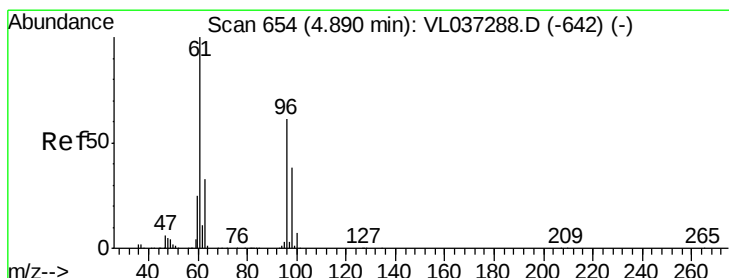
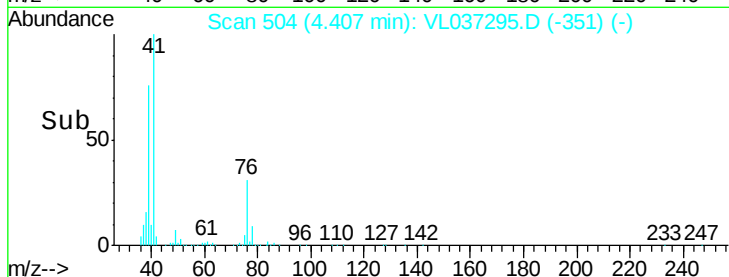
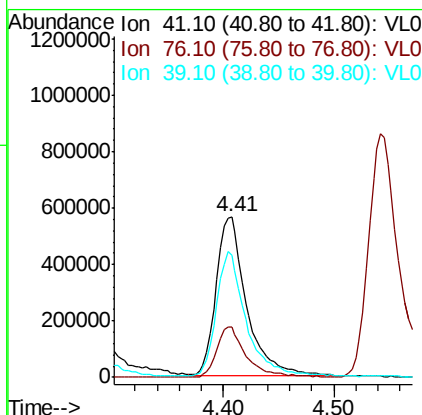
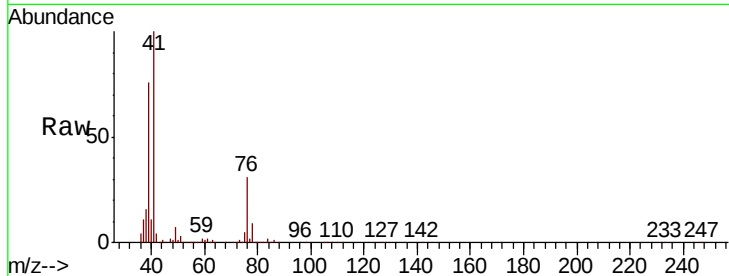
ClientSampleId :

ICVVL073021

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 41    | Resp: | 1079120 |
| Ion      | Ratio | Lower | Upper   |
| 41       | 100   |       |         |
| 76       | 31.0  | 24.7  | 37.1    |
| 39       | 77.1  | 64.5  | 96.7    |

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#22

trans-1,2-Dichloroethene

Concen: 10.454 ppbv

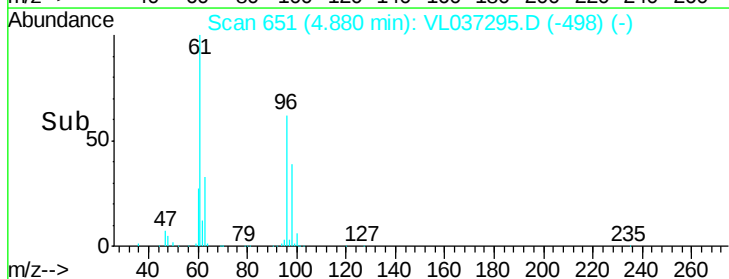
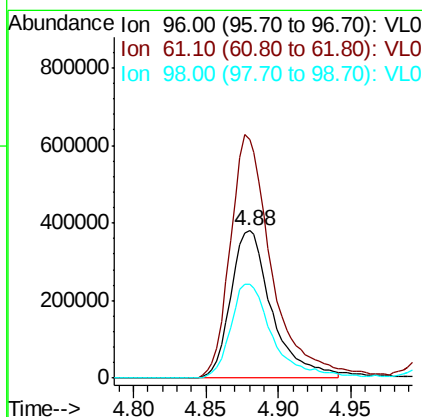
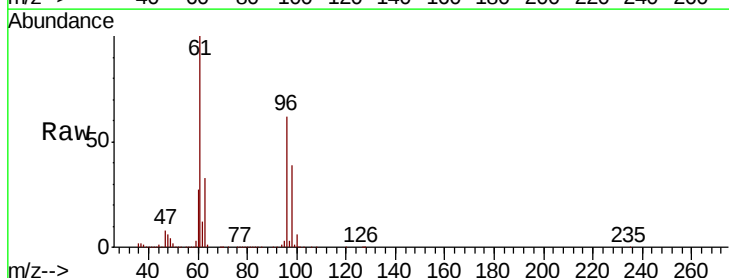
RT: 4.88 min Scan# 651

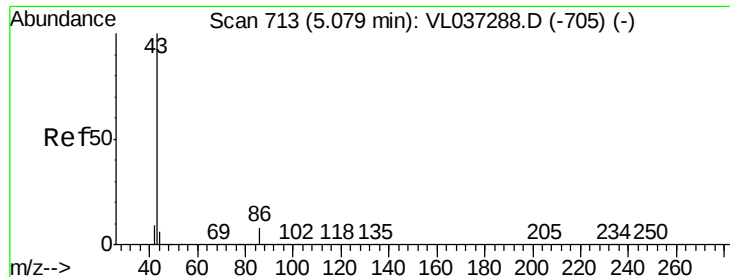
Delta R.T. -0.01 min

Lab File: VL037295.D

Acq: 30 Jul 2021 21:52

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 96    | Resp: | 751522 |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 162.3 | 131.1 | 196.7  |
| 98       | 63.7  | 49.9  | 74.9   |





#23

Vinyl Acetate

Concen: 9.444 ppbv

RT: 5.07 min Scan# 709

Delta R.T. -0.01 min

Lab File: VL037295.D

Acq: 30 Jul 2021 21:52

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL073021

Tot Ion: 43 Resp: 1849701

Ion Ratio Lower Upper

43 100

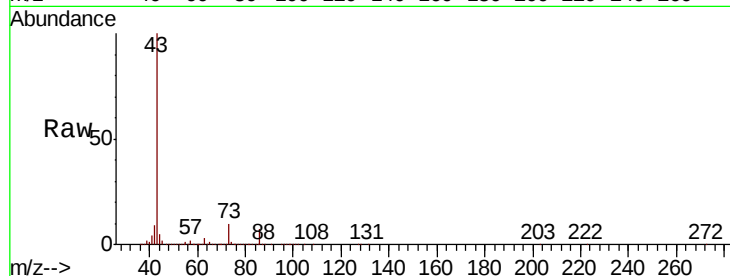
86 7.3 5.7 8.5

42 9.0 8.1 12.1

44 4.8 4.1 6.1

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MMDadoda  
8/2/2021 8:57:57 AM

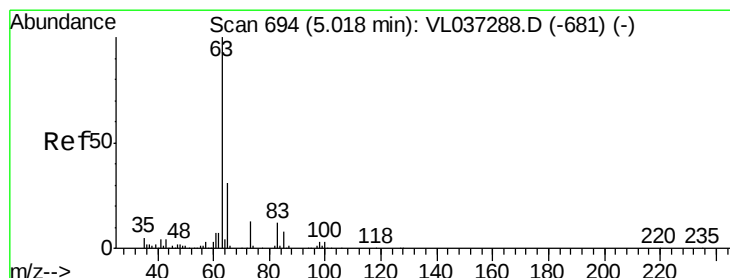
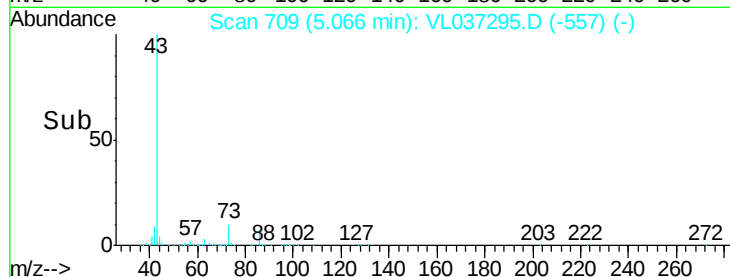
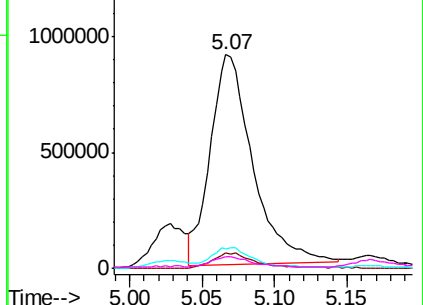


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.624 ppbv

RT: 5.01 min Scan# 690

Delta R.T. -0.01 min

Lab File: VL037295.D

Acq: 30 Jul 2021 21:52

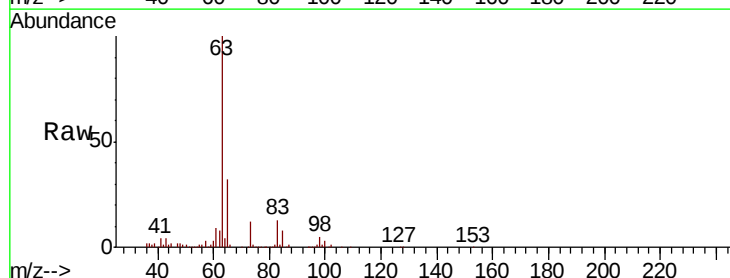
Tgt Ion: 63 Resp: 1463534

Ion Ratio Lower Upper

63 100

98 4.5 2.0 5.8

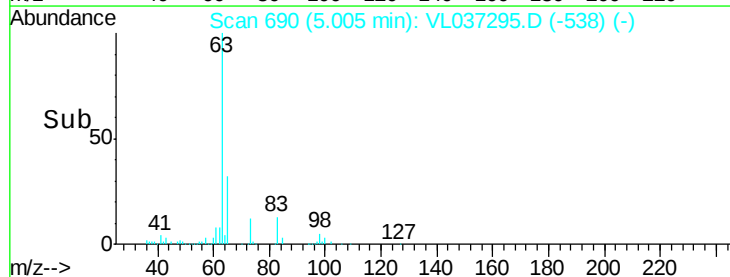
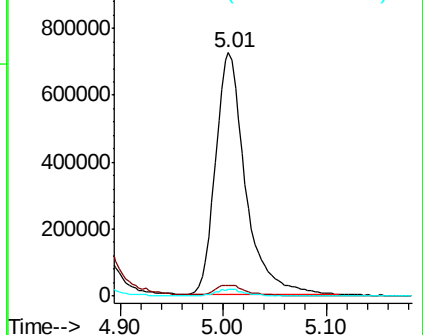
100 2.7 1.4 4.2

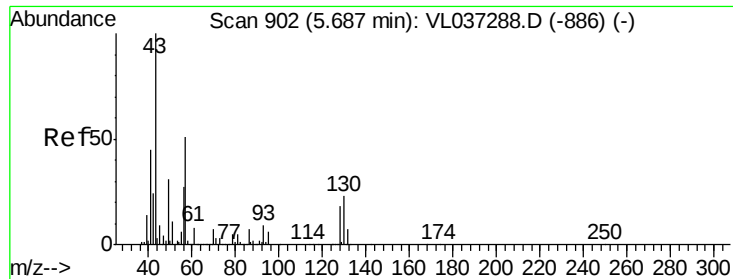


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





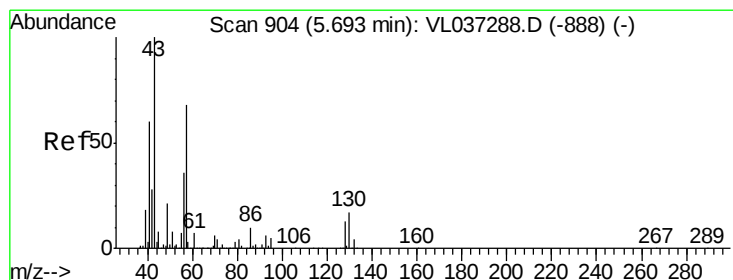
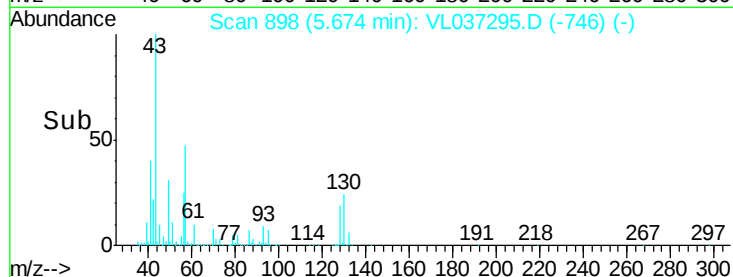
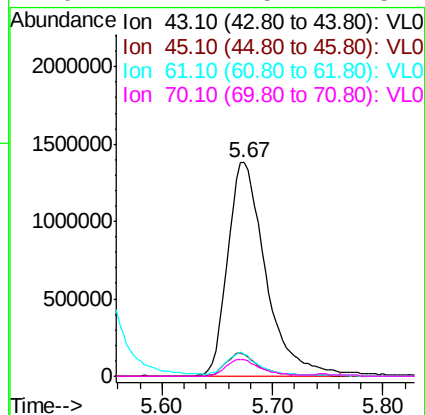
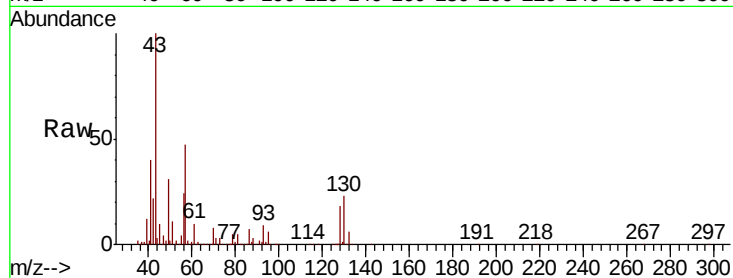
#25  
Ethyl Acetate  
Concen: 9.769 ppbv  
RT: 5.67 min Scan# 898  
Delta R.T. -0.01 min  
Lab File: VL037295.D  
Acq: 30 Jul 2021 21:52

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL073021

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 45      | 9.8   | 7.4   | 11.2  |
| 61      | 9.9   | 7.8   | 11.6  |
| 70      | 7.1   | 5.4   | 8.2   |

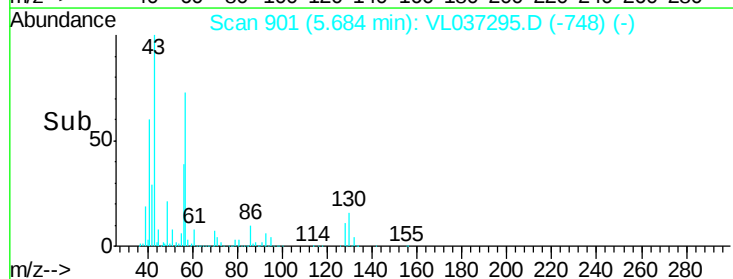
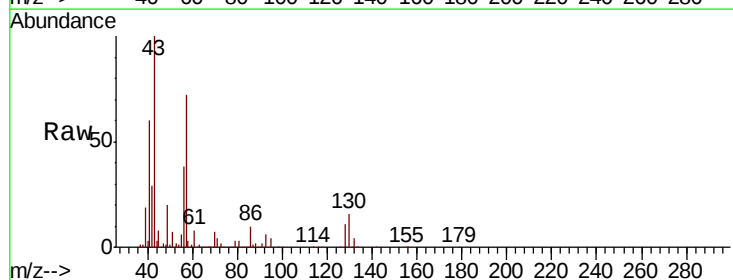
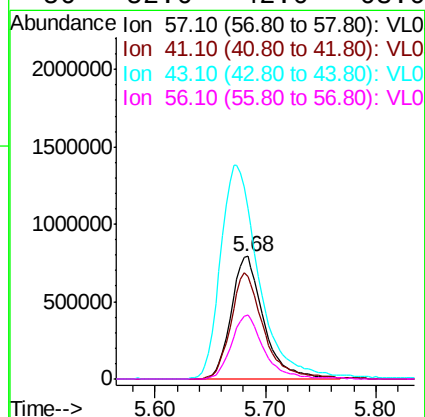
Manual Integrations  
APPROVED

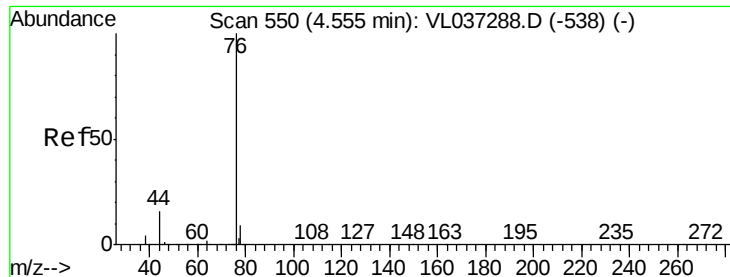
MMDadoda  
8/2/2021 8:57:57 AM



#26  
Hexane  
Concen: 9.036 ppbv  
RT: 5.68 min Scan# 901  
Delta R.T. -0.01 min  
Lab File: VL037295.D  
Acq: 30 Jul 2021 21:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 57      | 100   |       |       |
| 41      | 87.8  | 71.0  | 106.6 |
| 43      | 205.5 | 155.0 | 232.4 |
| 56      | 52.6  | 42.0  | 63.0  |





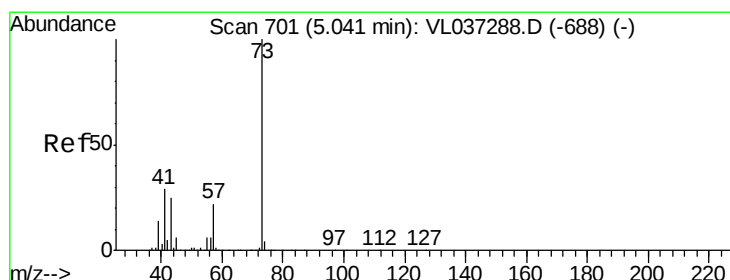
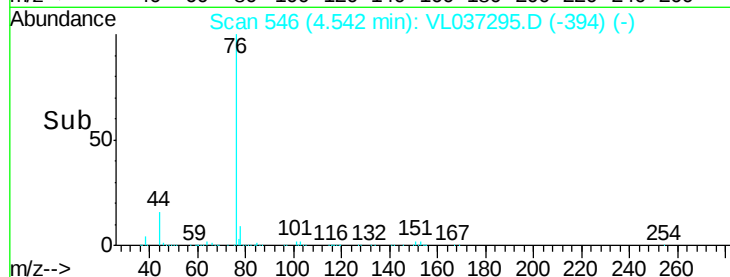
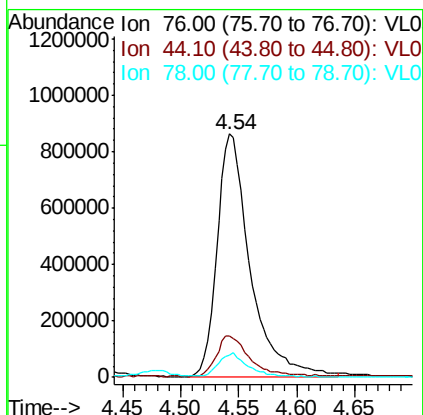
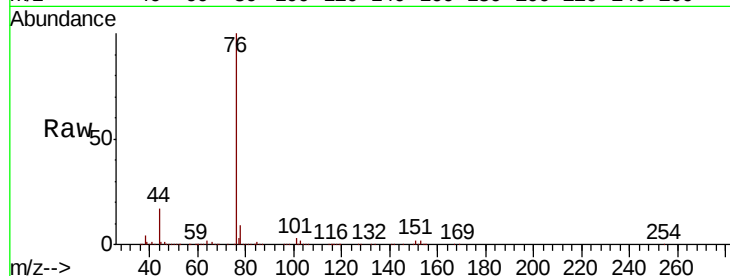
#27  
Carbon Disulfide  
Concen: 11.545 ppbv  
RT: 4.54 min Scan# 546  
Delta R.T. -0.01 min  
Lab File: VL037295.D  
Acq: 30 Jul 2021 21:52

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL073021

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 44      | 17.4  | 14.1  | 21.1  |
| 78      | 9.7   | 8.0   | 12.0  |

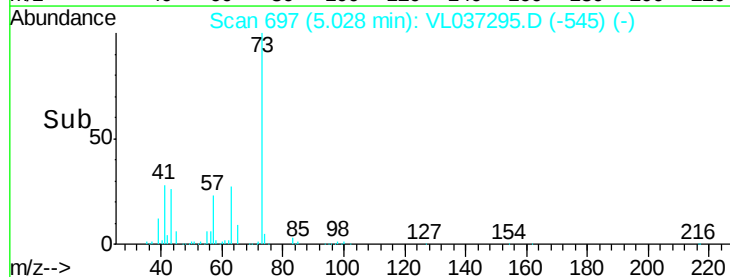
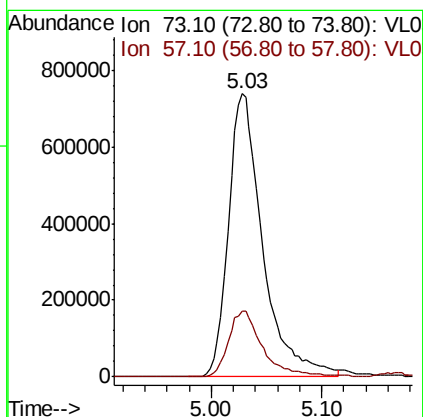
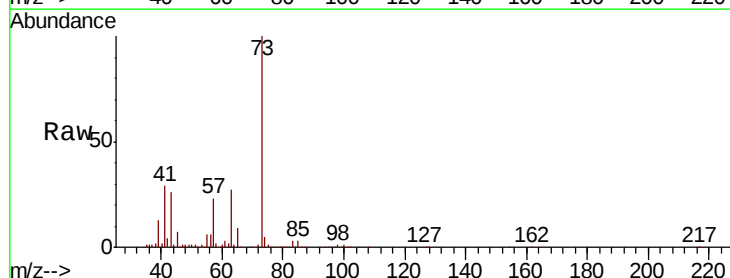
Manual Integrations  
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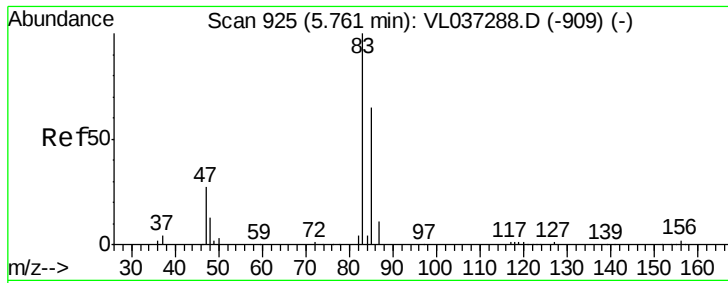
MMDadoda  
8/2/2021 8:57:57 AM



#28  
Methyl tert-Butyl Ether  
Concen: 9.152 ppbv  
RT: 5.03 min Scan# 697  
Delta R.T. -0.01 min  
Lab File: VL037295.D  
Acq: 30 Jul 2021 21:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 57      | 23.5  | 19.0  | 28.6  |





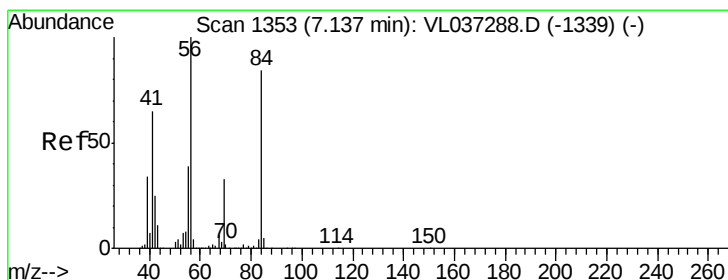
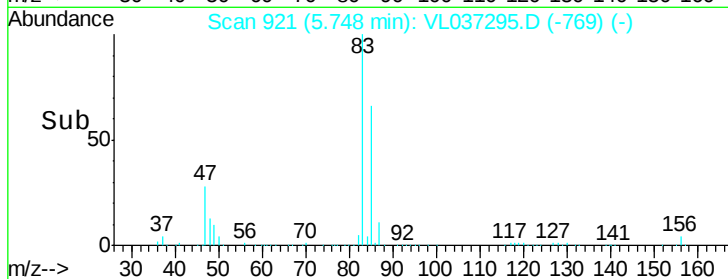
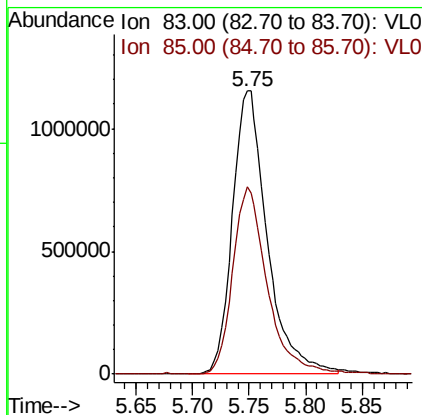
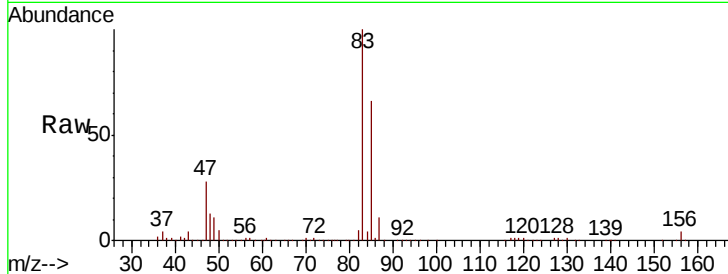
#29  
Chloroform  
Concen: 9.565 ppbv  
RT: 5.75 min Scan# 921  
Delta R.T. -0.01 min  
Lab File: VL037295.D  
Acq: 30 Jul 2021 21:52

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL073021

Tot Ion: 83 Resp: 2466950  
Ion Ratio Lower Upper  
83 100  
85 65.9 51.9 77.9

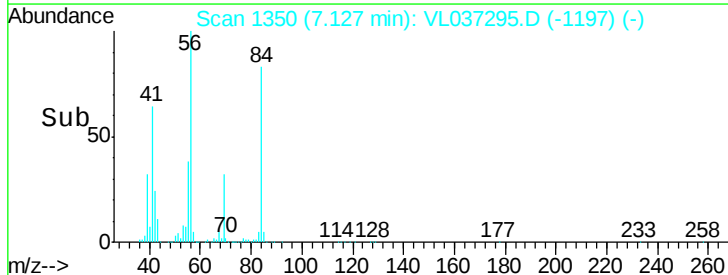
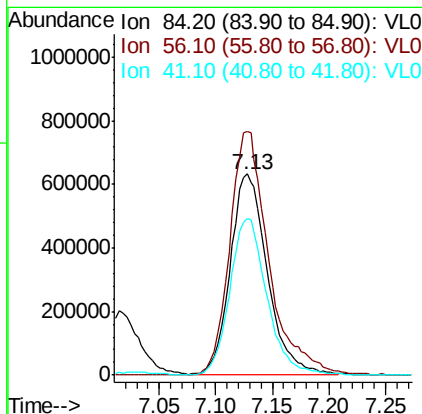
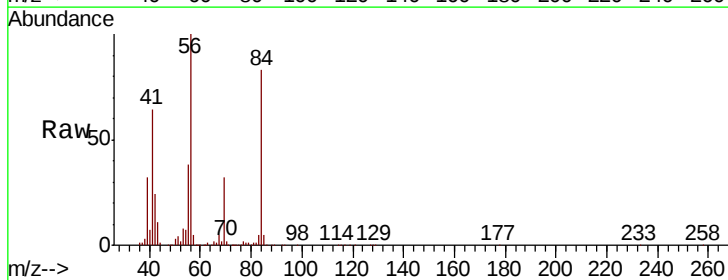
Manual Integrations  
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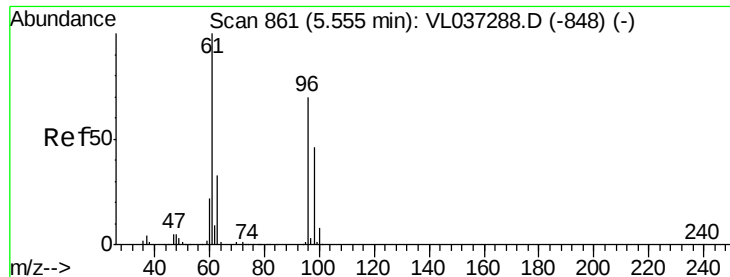
MMDadoda  
8/2/2021 8:57:57 AM



#30  
Cyclohexane  
Concen: 10.327 ppbv  
RT: 7.13 min Scan# 1350  
Delta R.T. -0.01 min  
Lab File: VL037295.D  
Acq: 30 Jul 2021 21:52

Tgt Ion: 84 Resp: 1453496  
Ion Ratio Lower Upper  
84 100  
56 127.5 104.1 156.1  
41 77.0 64.7 97.1





#31

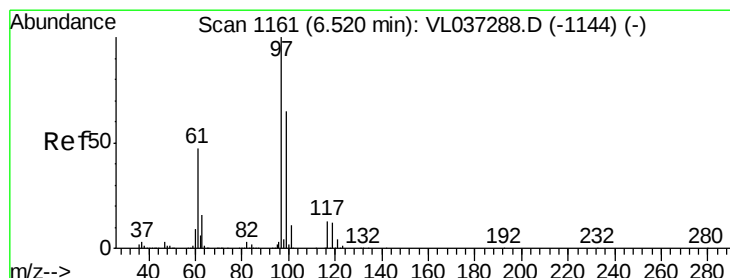
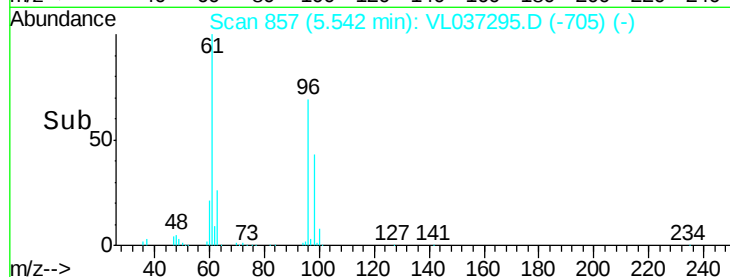
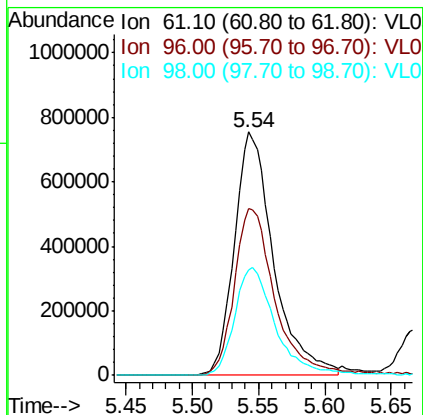
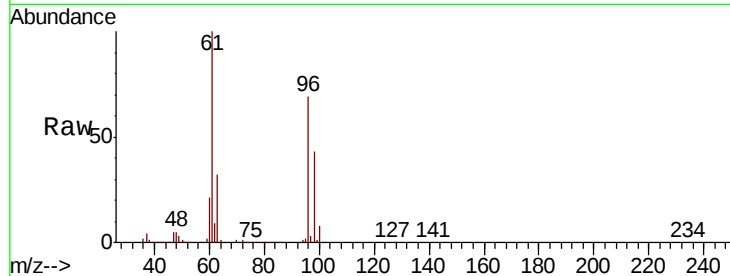
cis-1,2-Dichloroethene  
Concen: 10.138 ppbv  
RT: 5.54 min Scan# 857  
Delta R.T. -0.01 min  
Lab File: VL037295.D  
Acq: 30 Jul 2021 21:52

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL073021

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 61      | 100   |       |       |
| 96      | 68.7  | 55.9  | 83.9  |
| 98      | 43.2  | 37.1  | 55.7  |

Manual Integrations  
APPROVED

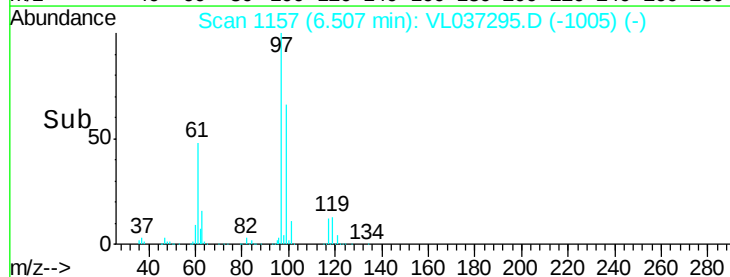
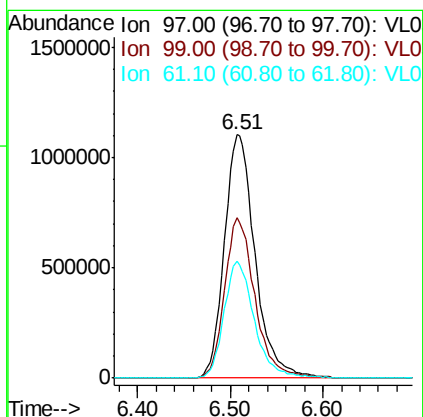
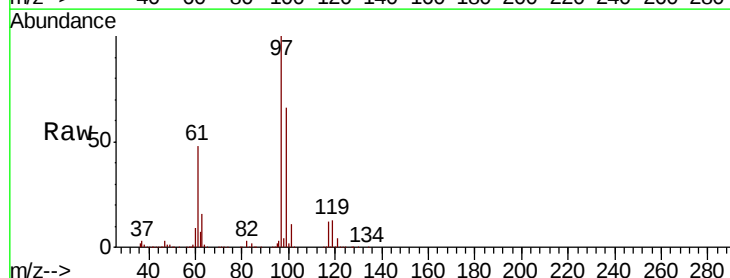
MMDadoda  
8/2/2021 8:57:57 AM

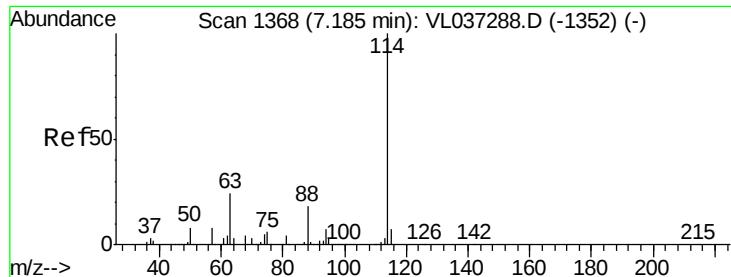


#32

1,1,1-Trichloroethane  
Concen: 9.896 ppbv  
RT: 6.51 min Scan# 1157  
Delta R.T. -0.01 min  
Lab File: VL037295.D  
Acq: 30 Jul 2021 21:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 65.0  | 52.5  | 78.7  |
| 61      | 47.6  | 38.2  | 57.4  |





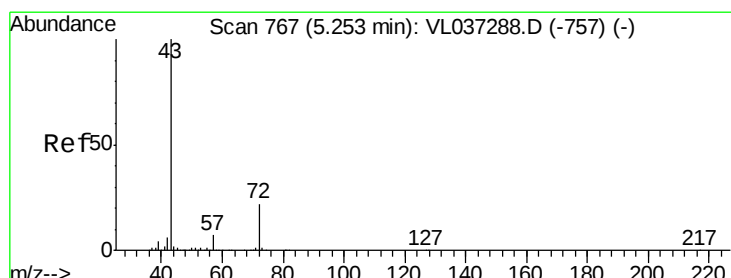
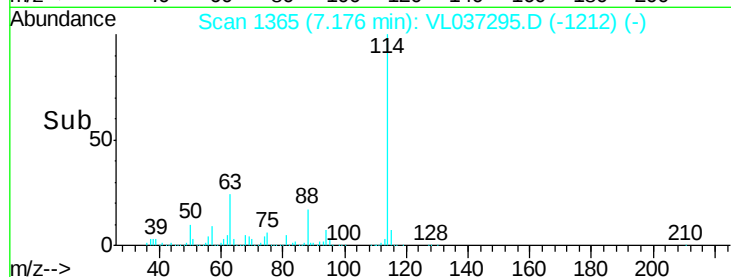
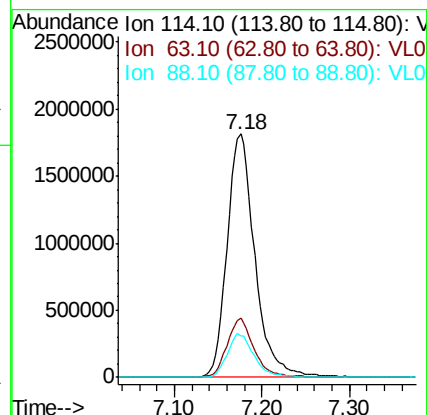
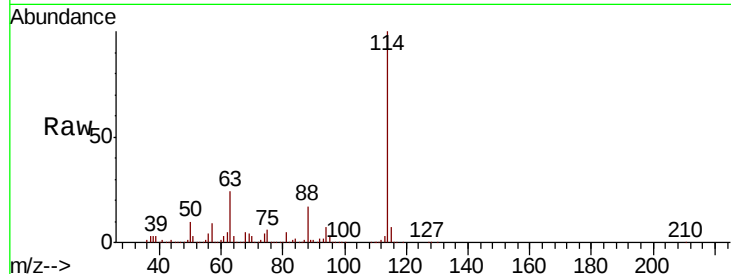
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.18 min Scan# 1365  
 Delta R.T. -0.01 min  
 Lab File: VL037295.D  
 Acq: 30 Jul 2021 21:52

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL073021

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 23.8  | 19.0  | 28.4  |
| 88      | 17.5  | 14.0  | 21.0  |

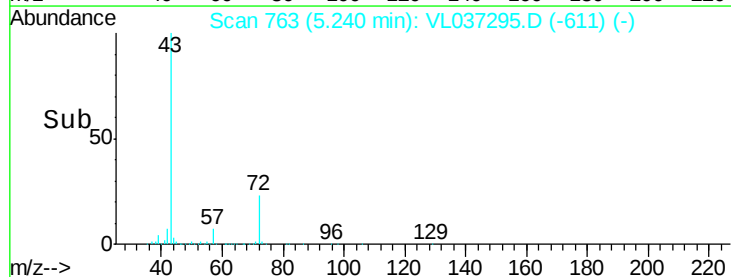
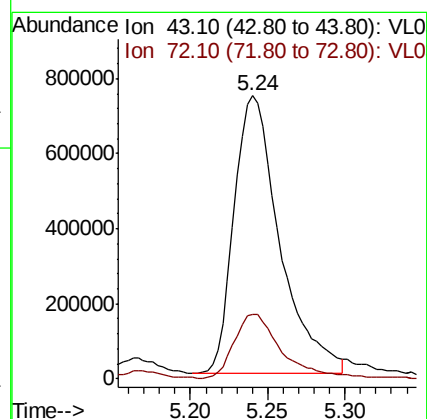
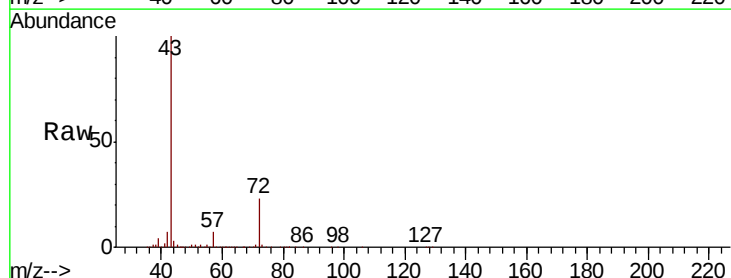
Manual Integrations  
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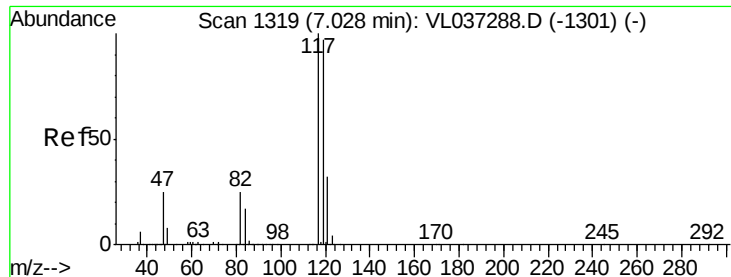
MMDadoda  
 8/2/2021 8:57:57 AM



#34  
 2-Butanone  
 Concen: 8.911 ppbv  
 RT: 5.24 min Scan# 763  
 Delta R.T. -0.01 min  
 Lab File: VL037295.D  
 Acq: 30 Jul 2021 21:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 24.3  | 18.5  | 27.7  |





#35

Carbon Tetrachloride

Concen: 10.493 ppbv

RT: 7.01 min Scan# 1315

Delta R.T. -0.01 min

Lab File: VL037295.D

Acq: 30 Jul 2021 21:52

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL073021

Tot Ion:117 Resp: 2657008

Ion Ratio Lower Upper

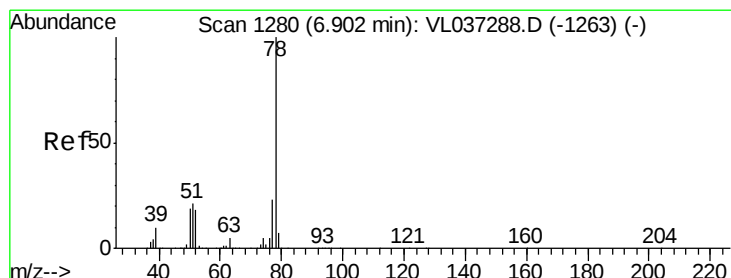
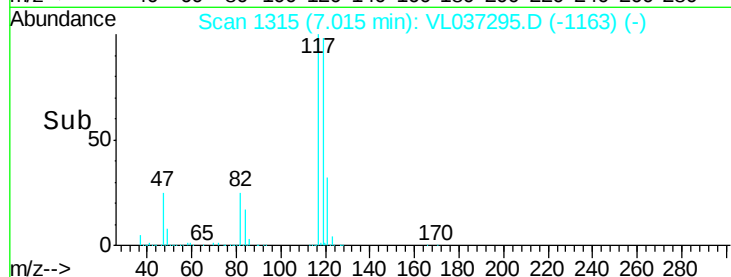
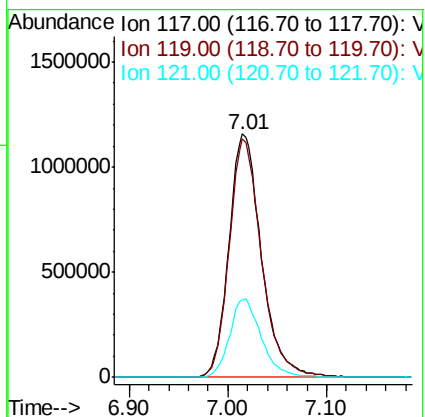
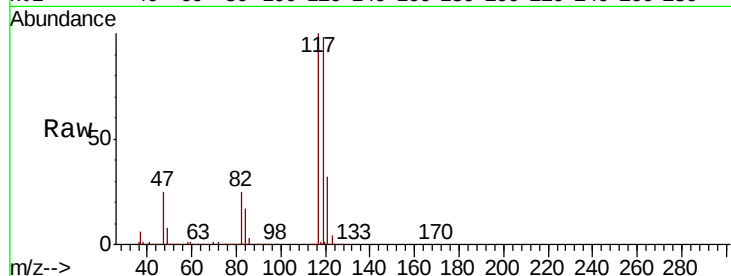
117 100

119 97.8 77.4 116.2

121 31.9 25.8 38.8

Manual Integrations  
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8/2/2021 8:57:57 AM



#36

Benzene

Concen: 10.056 ppbv

RT: 6.89 min Scan# 1276

Delta R.T. -0.01 min

Lab File: VL037295.D

Acq: 30 Jul 2021 21:52

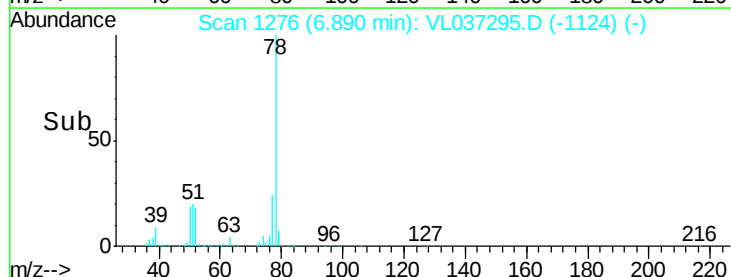
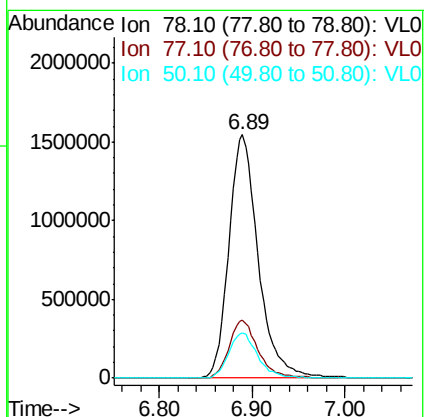
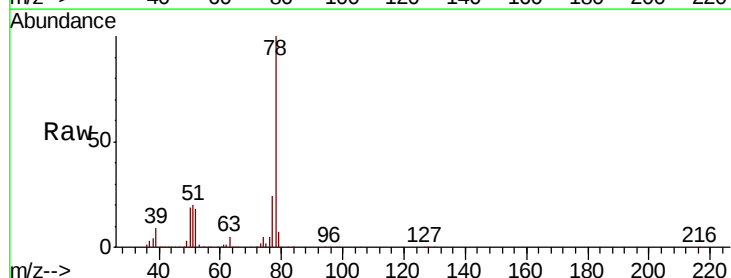
Tgt Ion: 78 Resp: 3401891

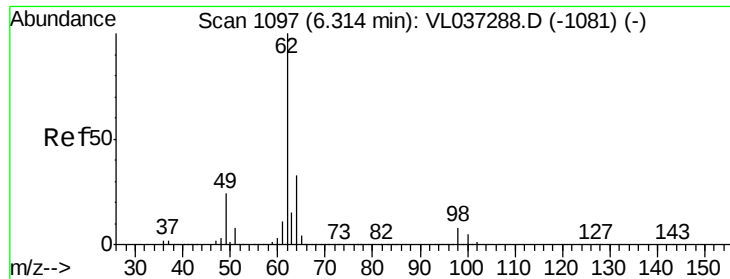
Ion Ratio Lower Upper

78 100

77 24.0 18.3 27.5

50 18.5 15.5 23.3





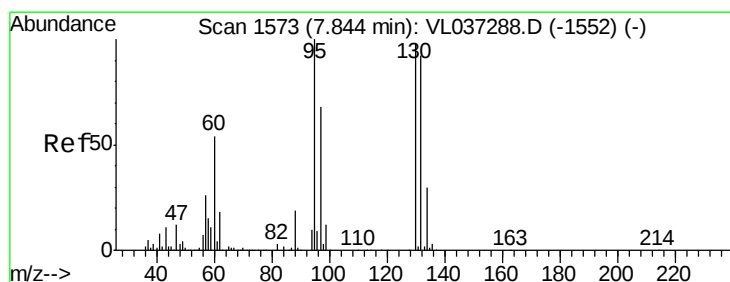
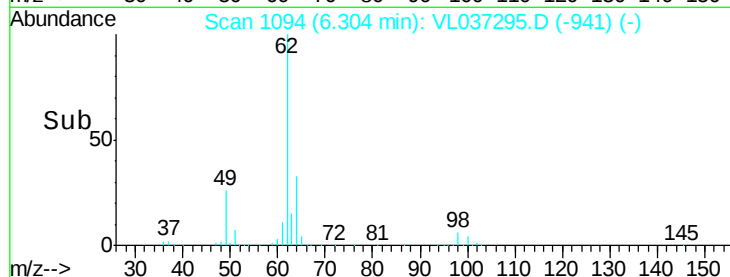
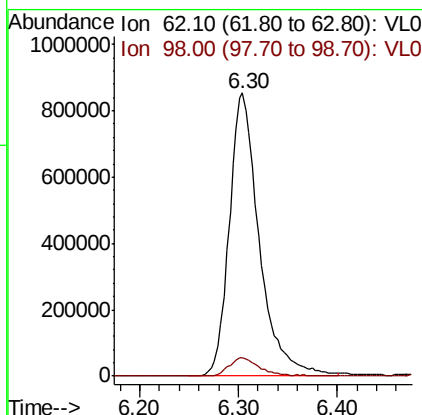
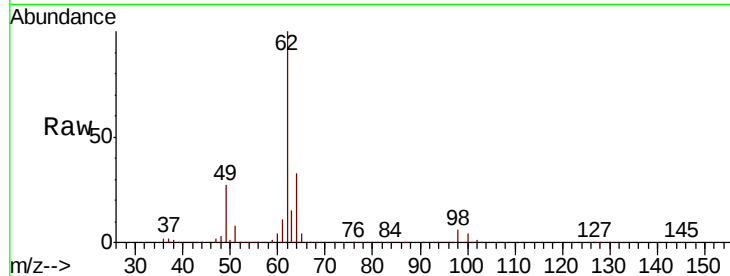
#37  
 1,2-Dichloroethane  
 Concen: 10.284 ppbv  
 RT: 6.30 min Scan# 1094  
 Delta R.T. -0.01 min  
 Lab File: VL037295.D  
 Acq: 30 Jul 2021 21:52

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL073021

Tot Ion: 62 Resp: 1812363  
 Ion Ratio Lower Upper  
 62 100  
 98 6.8 5.8 8.6

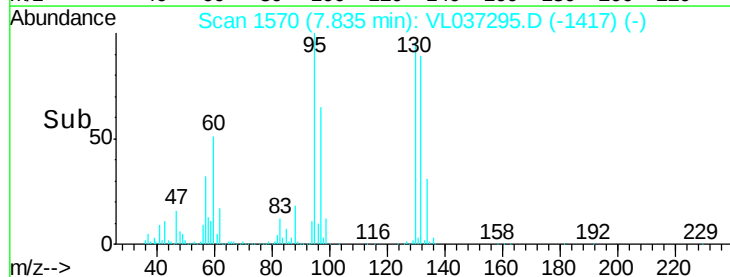
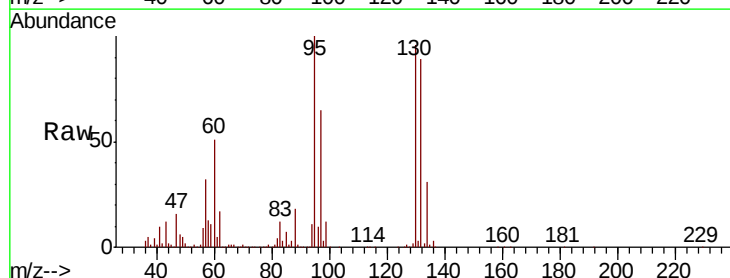
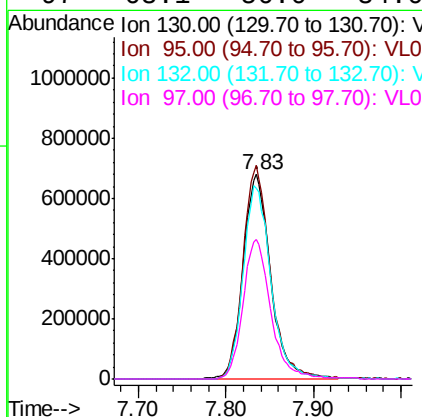
Manual Integrations  
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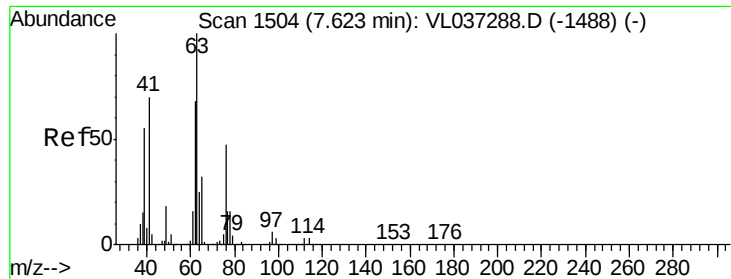
MMDadoda  
 8/2/2021 8:57:57 AM



#38  
 Trichloroethene  
 Concen: 9.782 ppbv  
 RT: 7.83 min Scan# 1570  
 Delta R.T. -0.01 min  
 Lab File: VL037295.D  
 Acq: 30 Jul 2021 21:52

Tgt Ion: 130 Resp: 1493368  
 Ion Ratio Lower Upper  
 130 100  
 95 104.3 82.0 123.0  
 132 92.9 75.0 112.6  
 97 68.1 56.0 84.0





#39

1,2-Dichloropropane

Concen: 10.071 ppbv

RT: 7.61 min Scan# 1501

Delta R.T. -0.01 min

Lab File: VL037295.D

Acq: 30 Jul 2021 21:52

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL073021

Tot Ion: 63 Resp: 1281162

Ion Ratio Lower Upper

63 100

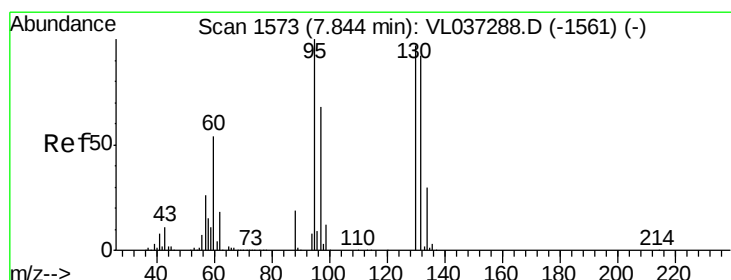
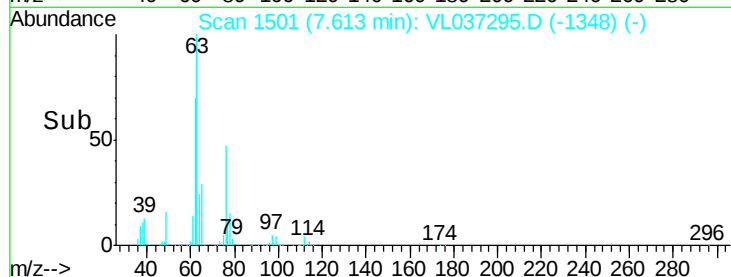
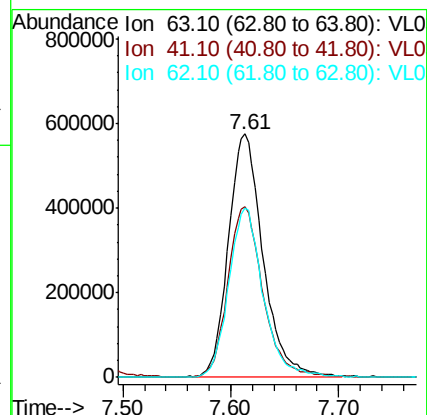
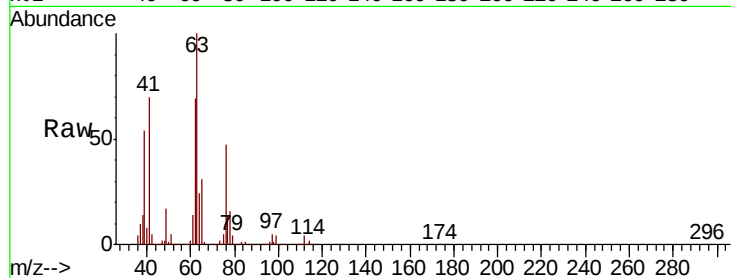
41 70.1 56.4 84.6

62 69.4 54.6 82.0

Manual Integrations  
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8/2/2021 8:57:57 AM



#40

1,4-Dioxane

Concen: 8.672 ppbv

RT: 7.83 min Scan# 1570

Delta R.T. -0.01 min

Lab File: VL037295.D

Acq: 30 Jul 2021 21:52

Tgt Ion: 88 Resp: 317827

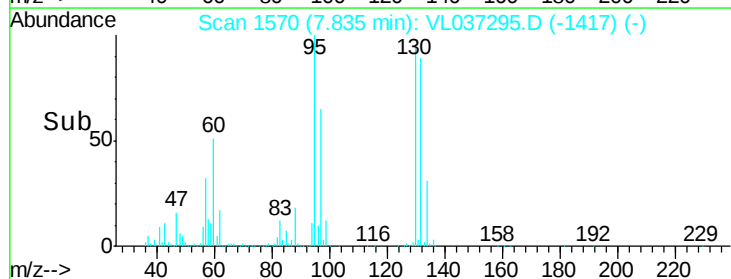
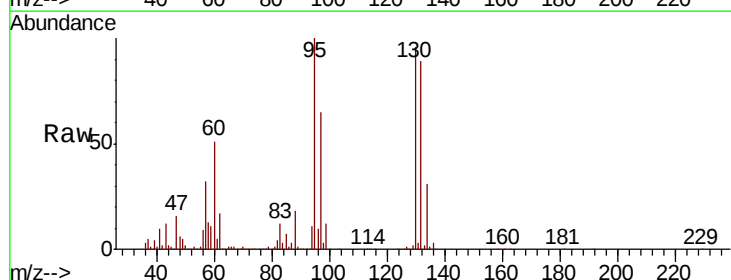
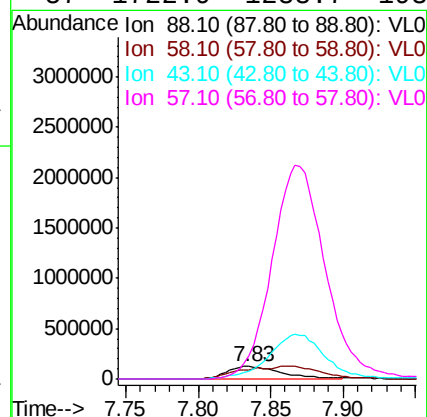
Ion Ratio Lower Upper

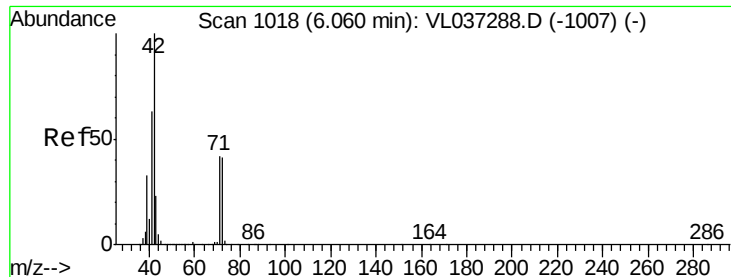
88 100

58 155.4 119.2 178.8

43 383.8 282.2 423.2

57 1722.9 1288.7 1933.1





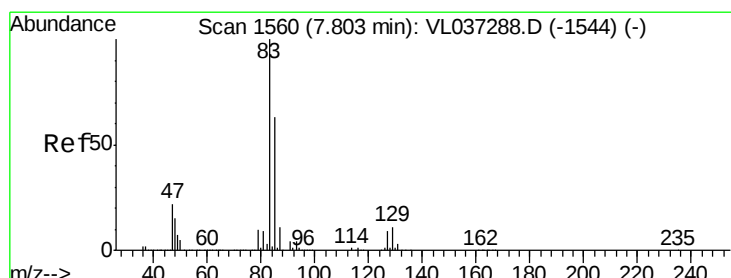
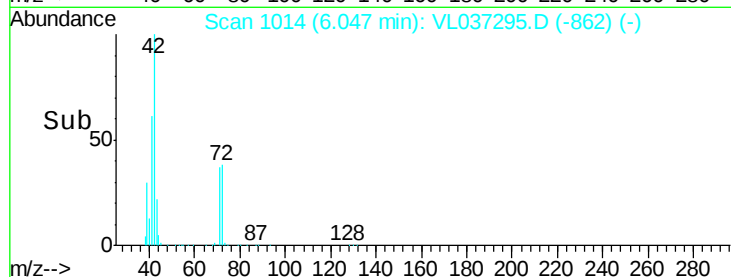
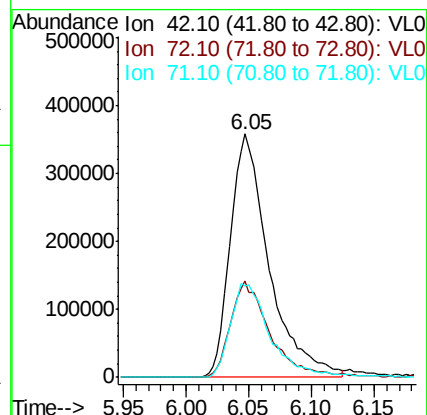
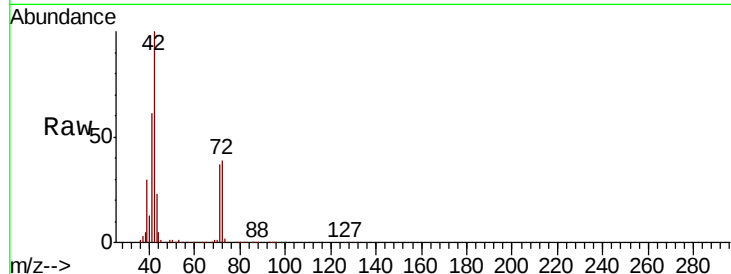
#41  
Tetrahydrofuran  
Concen: 11.154 ppbv  
RT: 6.05 min Scan# 1014  
Delta R.T. -0.01 min  
Lab File: VL037295.D  
Acq: 30 Jul 2021 21:52

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL073021

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 41.2  | 33.0  | 49.6  |
| 71      | 40.6  | 32.7  | 49.1  |

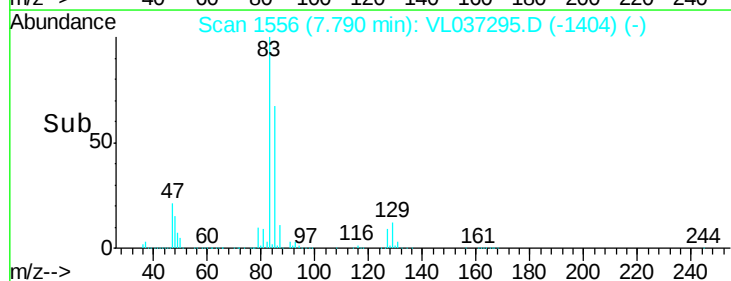
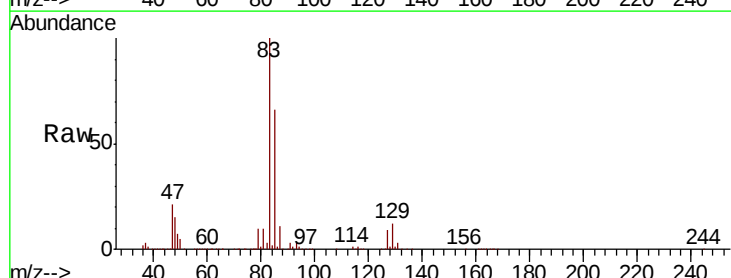
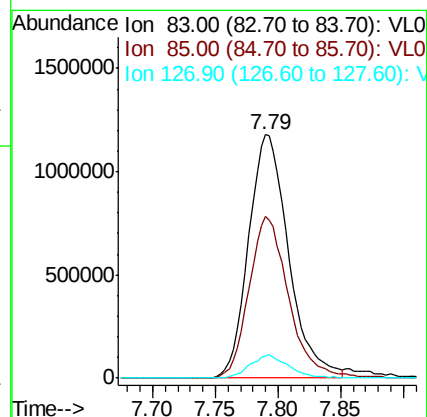
Manual Integrations  
APPROVED

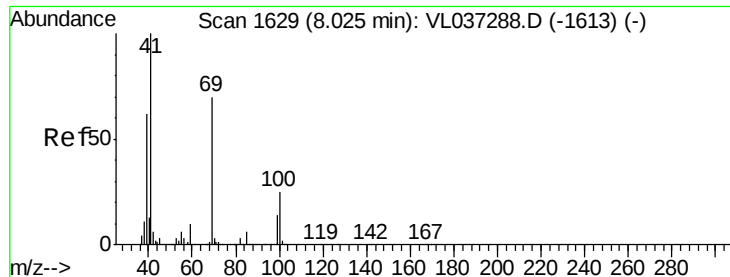
MMDadoda  
8/2/2021 8:57:57 AM



#42  
Bromodichloromethane  
Concen: 10.678 ppbv  
RT: 7.79 min Scan# 1556  
Delta R.T. -0.01 min  
Lab File: VL037295.D  
Acq: 30 Jul 2021 21:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 66.5  | 50.5  | 75.7  |
| 127     | 9.2   | 7.0   | 10.6  |





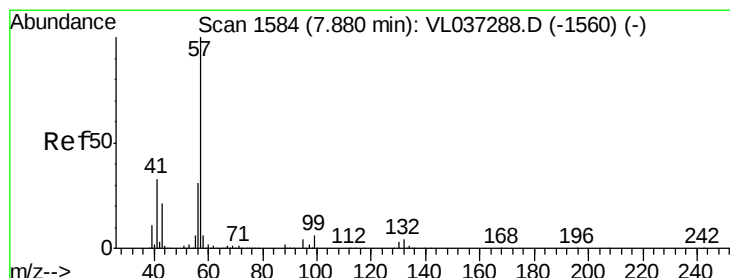
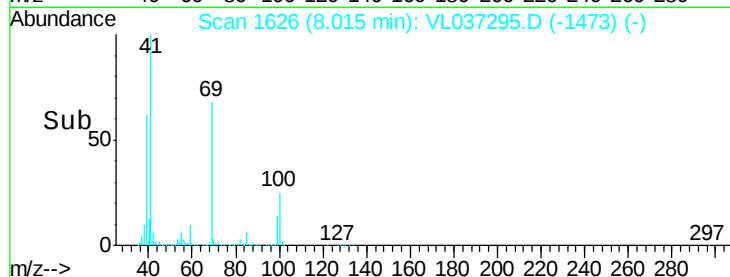
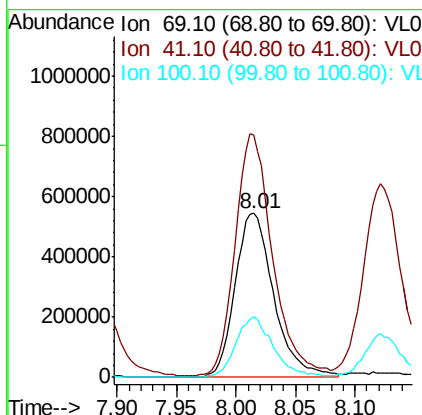
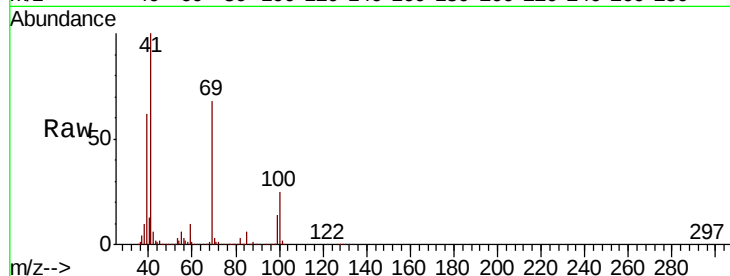
#43  
Methvl Methacrilate  
Concen: 10.920 ppbv  
RT: 8.01 min Scan# 1626  
Delta R.T. -0.01 min  
Lab File: VL037295.D  
Acq: 30 Jul 2021 21:52

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL073021

Tot Ion: 69 Resp: 1227874  
Ion Ratio Lower Upper  
69 100  
41 144.5 116.5 174.7  
100 35.9 28.7 43.1

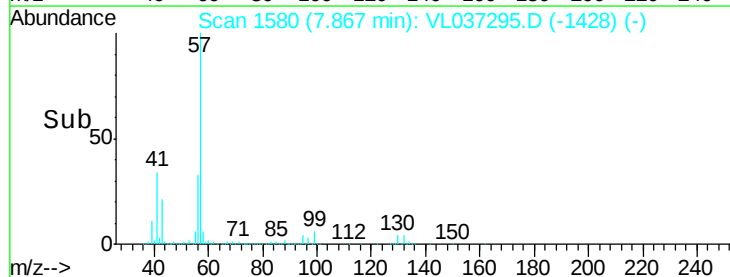
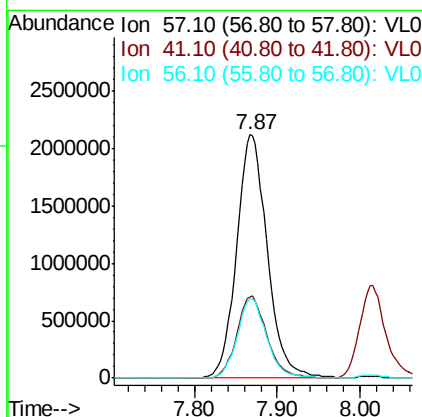
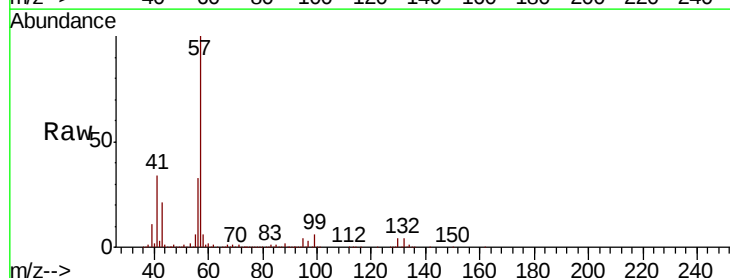
Manual Integrations  
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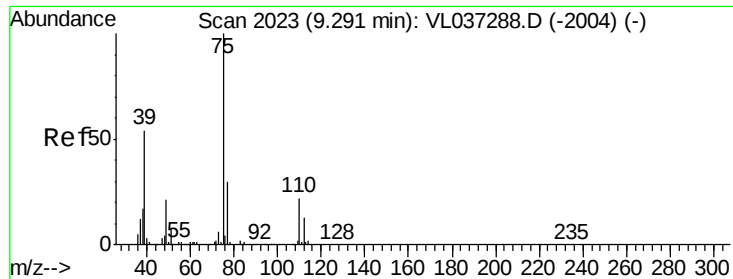
MMDadoda  
8/2/2021 8:57:57 AM



#44  
2,2,4-Trimethylpentane  
Concen: 9.883 ppbv  
RT: 7.87 min Scan# 1580  
Delta R.T. -0.01 min  
Lab File: VL037295.D  
Acq: 30 Jul 2021 21:52

Tgt Ion: 57 Resp: 5465619  
Ion Ratio Lower Upper  
57 100  
41 32.9 26.6 40.0  
56 31.6 25.3 37.9





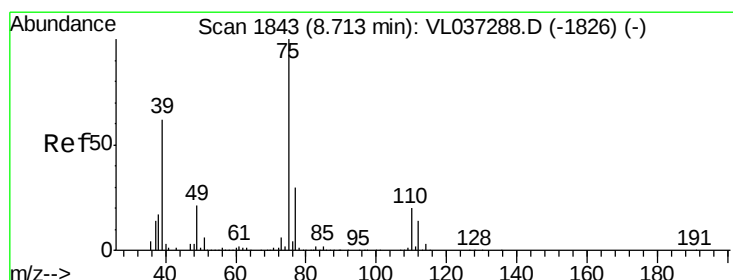
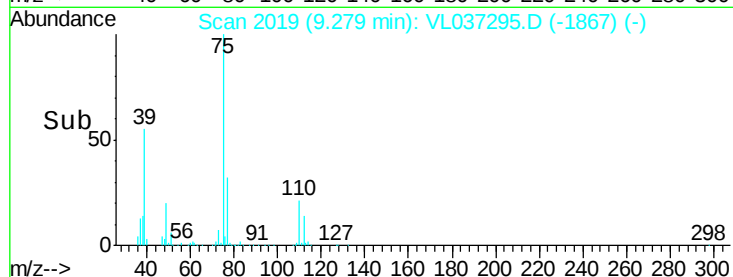
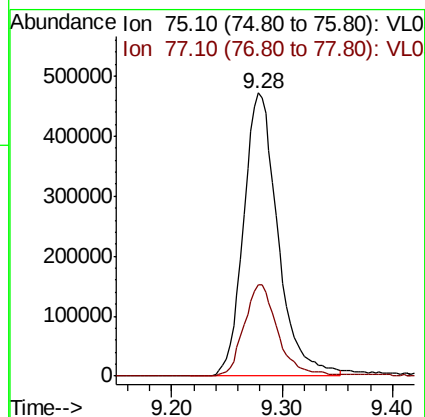
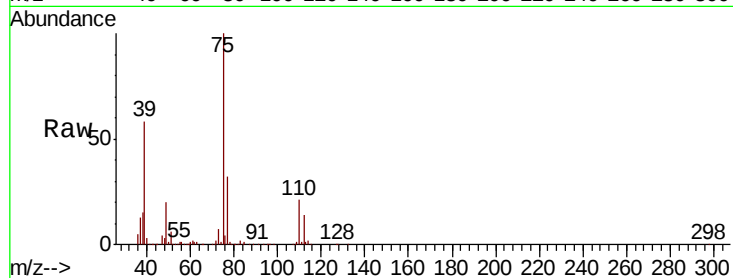
#45  
t-1,3-Dichloropropene  
Concen: 10.770 ppbv  
RT: 9.28 min Scan# 2019  
Delta R.T. -0.01 min  
Lab File: VL037295.D  
Acq: 30 Jul 2021 21:52

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL073021

Tot Ion: 75 Resp: 1014827  
Ion Ratio Lower Upper  
75 100  
77 32.4 24.3 36.5

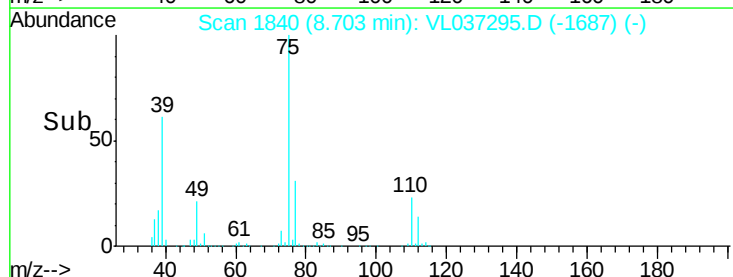
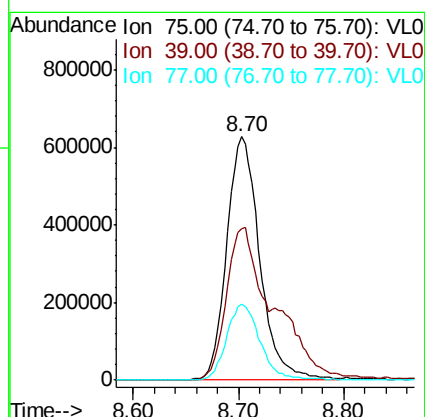
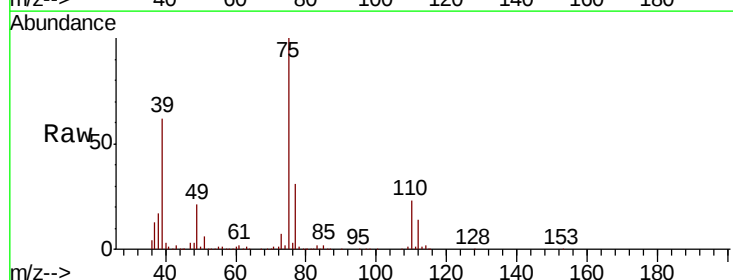
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APPROVED

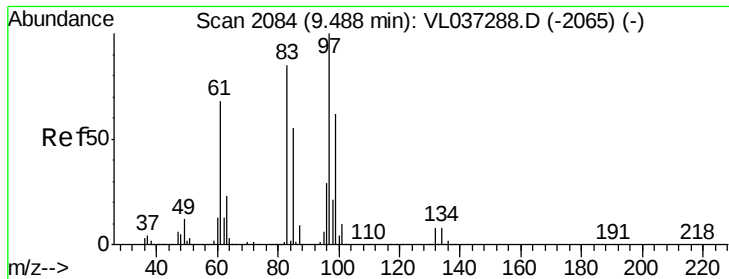
MMDadoda  
8/2/2021 8:57:57 AM



#46  
cis-1,3-Dichloropropene  
Concen: 10.691 ppbv  
RT: 8.70 min Scan# 1840  
Delta R.T. -0.01 min  
Lab File: VL037295.D  
Acq: 30 Jul 2021 21:52

Tgt Ion: 75 Resp: 1358680  
Ion Ratio Lower Upper  
75 100  
39 61.8 49.8 74.6  
77 31.4 24.3 36.5





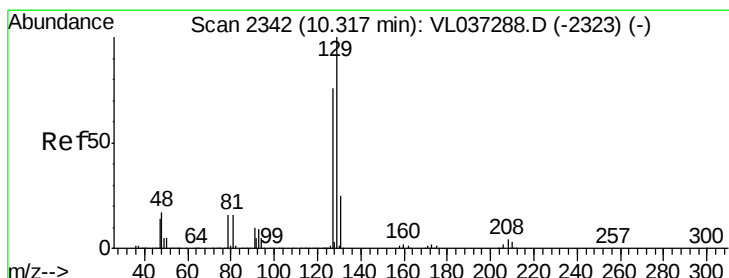
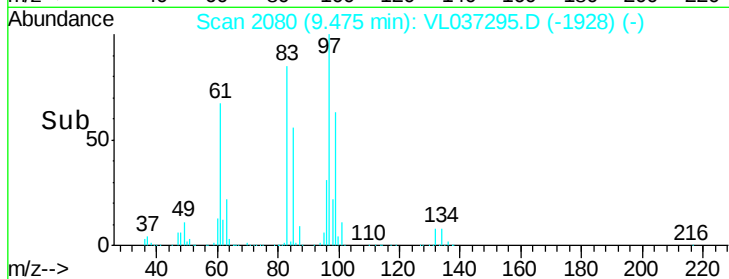
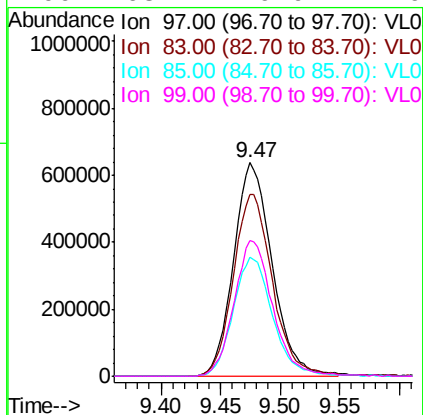
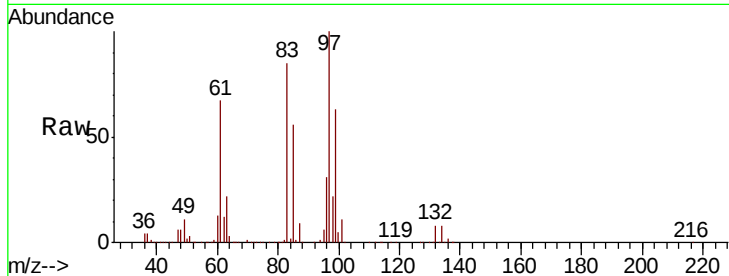
#47  
 1,1,2-Trichloroethane  
 Concen: 10.037 ppbv  
 RT: 9.47 min Scan# 2080  
 Delta R.T. -0.01 min  
 Lab File: VL037295.D  
 Acq: 30 Jul 2021 21:52

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL073021

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 97      | 100  |       |       |       |
| 83      | 85.2 | 67.7  | 101.5 |       |
| 85      | 55.7 | 43.8  | 65.6  |       |
| 99      | 63.4 | 49.9  | 74.9  |       |

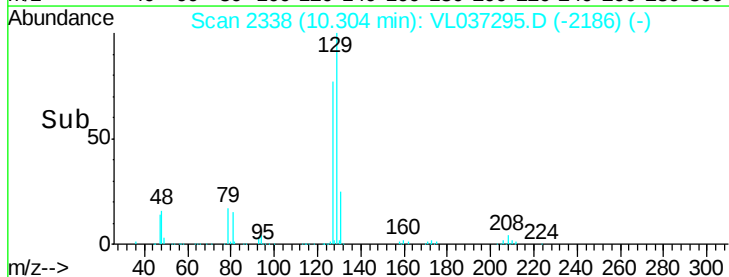
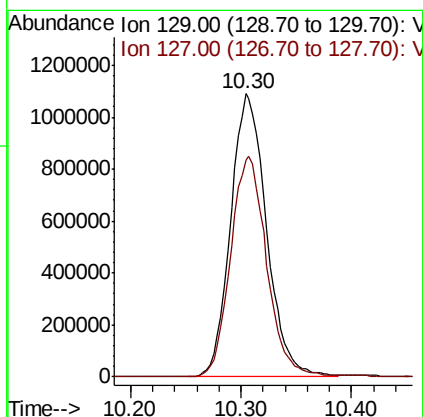
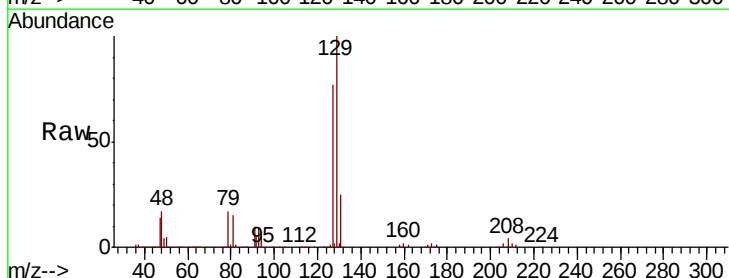
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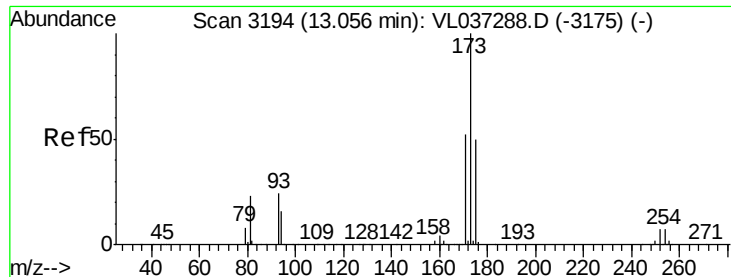
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 8/2/2021 8:57:57 AM



#48  
 Dibromochloromethane  
 Concen: 11.270 ppbv  
 RT: 10.30 min Scan# 2338  
 Delta R.T. -0.01 min  
 Lab File: VL037295.D  
 Acq: 30 Jul 2021 21:52

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 129     | 100  |       |       |       |
| 127     | 78.8 | 39.5  | 118.3 |       |





#49

Bromoform

Concen: 12.282 ppbv

RT: 13.04 min Scan# 3190

Delta R.T. -0.01 min

Lab File: VL037295.D

Acq: 30 Jul 2021 21:52

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL073021

Tot Ion:173 Resp: 2084636

Ion Ratio Lower Upper

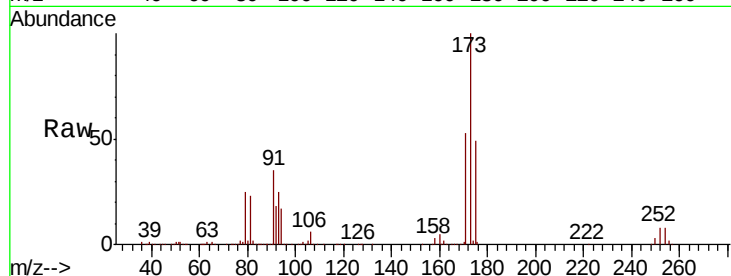
173 100

175 50.6 40.4 60.6

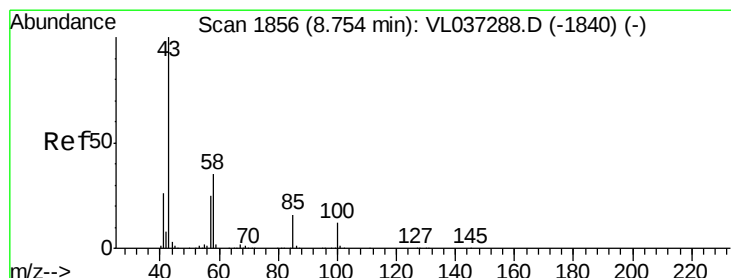
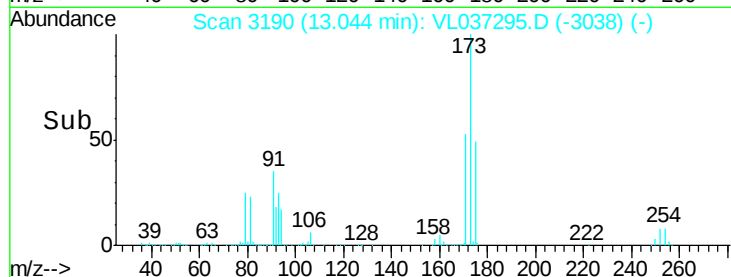
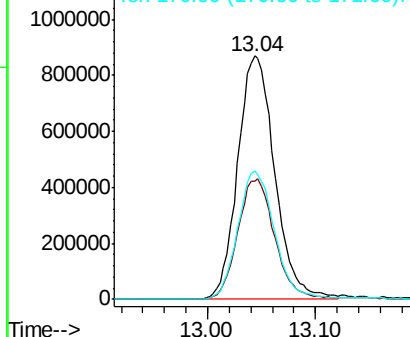
171 53.3 43.3 64.9

Manual Integrations  
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8/2/2021 8:57:57 AM



Abundance Ion 172.90 (172.60 to 173.60): V  
Ion 174.90 (174.60 to 175.60): V  
Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 10.783 ppbv

RT: 8.74 min Scan# 1853

Delta R.T. -0.01 min

Lab File: VL037295.D

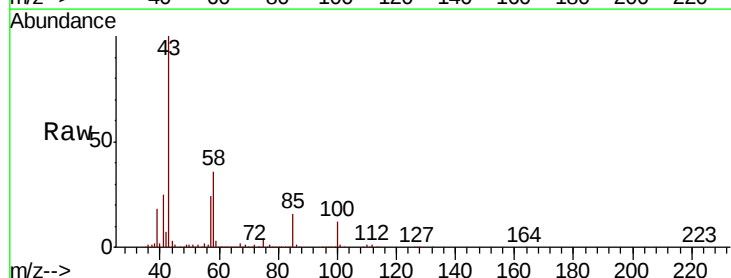
Acq: 30 Jul 2021 21:52

Tgt Ion: 43 Resp: 2341097

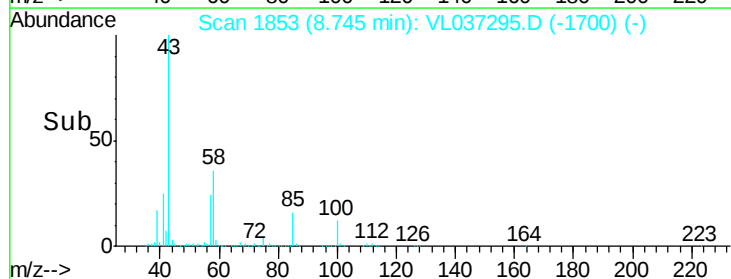
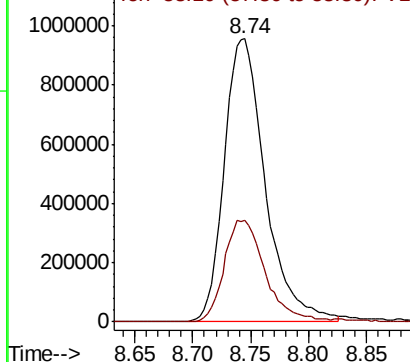
Ion Ratio Lower Upper

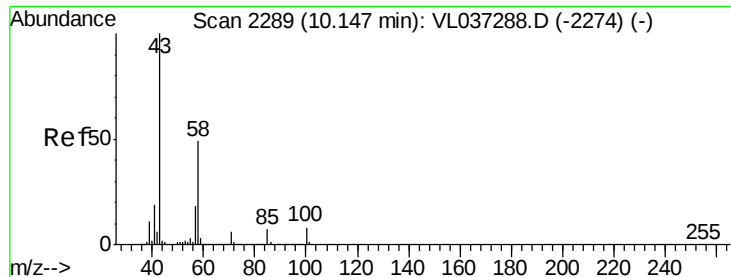
43 100

58 37.0 29.2 43.8



Abundance Ion 43.10 (42.80 to 43.80): VL0  
Ion 58.10 (57.80 to 58.80): VL0





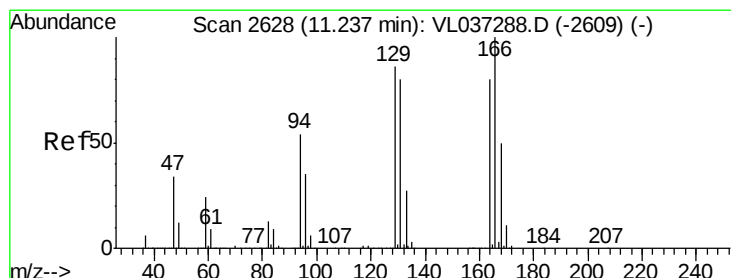
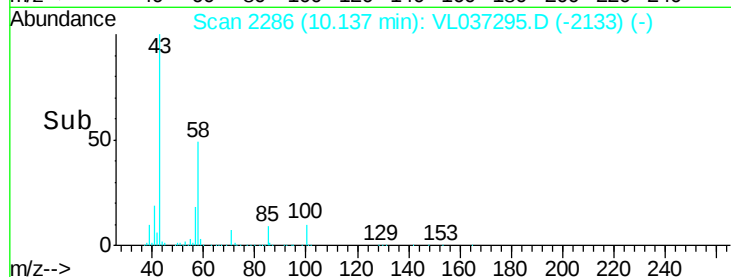
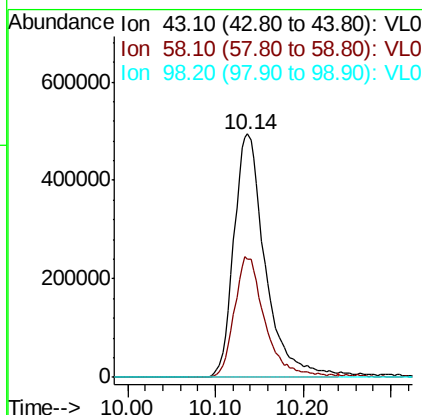
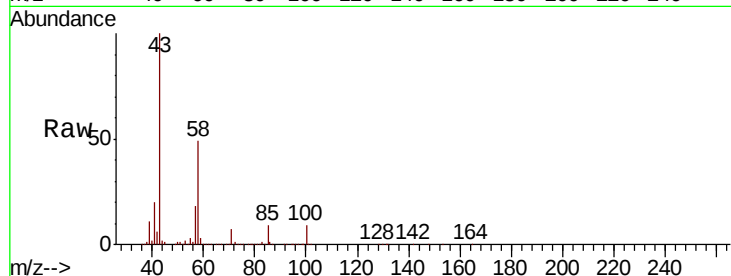
#51  
2-Hexanone  
Concen: 12.230 ppbv  
RT: 10.14 min Scan# 2286  
Delta R.T. -0.01 min  
Lab File: VL037295.D  
Acq: 30 Jul 2021 21:52

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL073021

Tot Ion: 43 Resp: 1225931  
Ion Ratio Lower Upper  
43 100  
58 49.6 39.0 58.4  
98 0.4 0.4 0.6

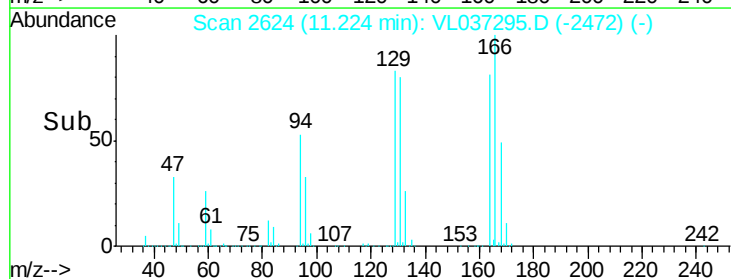
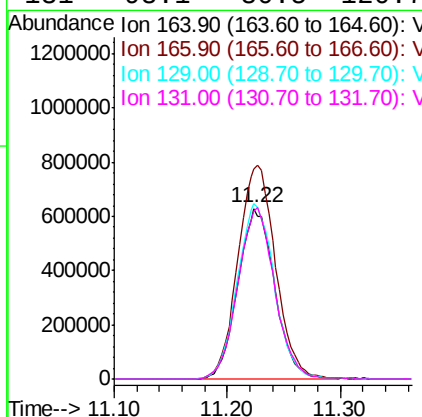
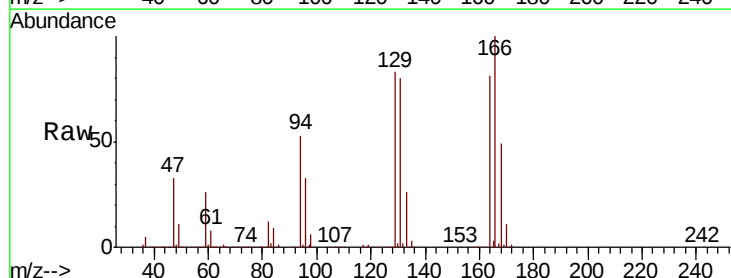
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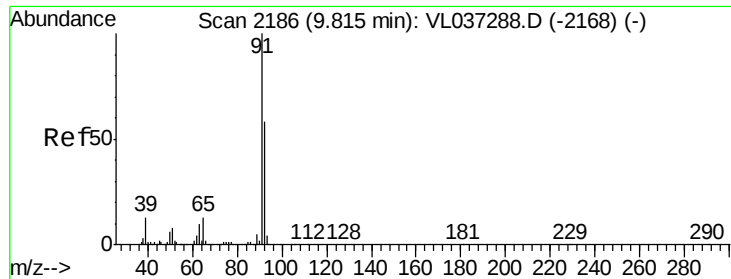
MMDadoda  
8/2/2021 8:57:57 AM



#52  
Tetrachloroethene  
Concen: 9.576 ppbv  
RT: 11.22 min Scan# 2624  
Delta R.T. -0.01 min  
Lab File: VL037295.D  
Acq: 30 Jul 2021 21:52

Tgt Ion: 164 Resp: 1427977  
Ion Ratio Lower Upper  
164 100  
166 123.2 100.4 150.6  
129 102.4 86.2 129.4  
131 98.1 80.5 120.7





#53

Toluene

Concen: 10.267 ppbv

RT: 9.81 min Scan# 2183

Delta R.T. -0.01 min

Lab File: VL037295.D

Acq: 30 Jul 2021 21:52

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL073021

Tot Ion: 91 Resp: 4083335

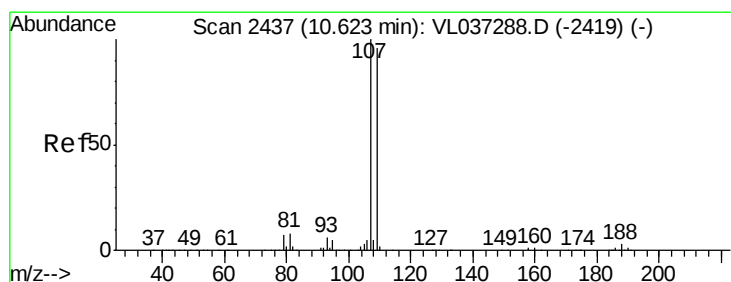
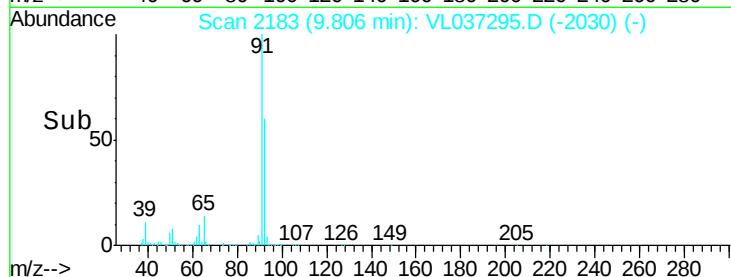
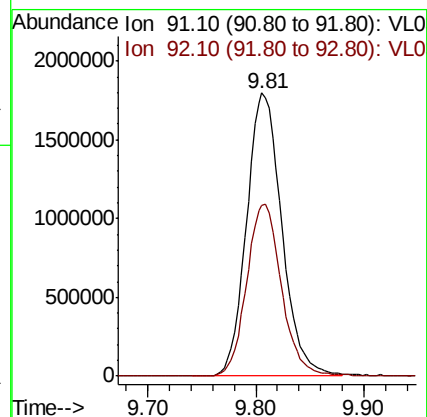
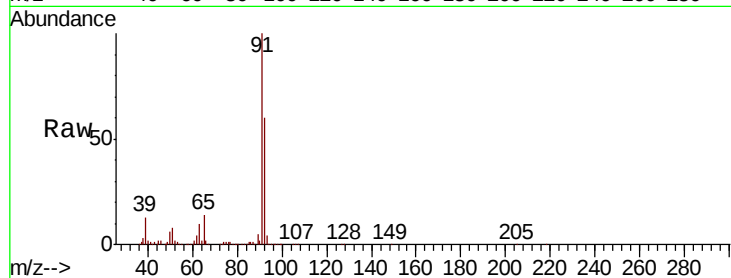
Ion Ratio Lower Upper

91 100

92 60.4 48.2 72.2

Manual Integrations  
APPROVED

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8/2/2021 8:57:57 AM



#54

1,2-Dibromoethane

Concen: 10.280 ppbv

RT: 10.61 min Scan# 2434

Delta R.T. -0.01 min

Lab File: VL037295.D

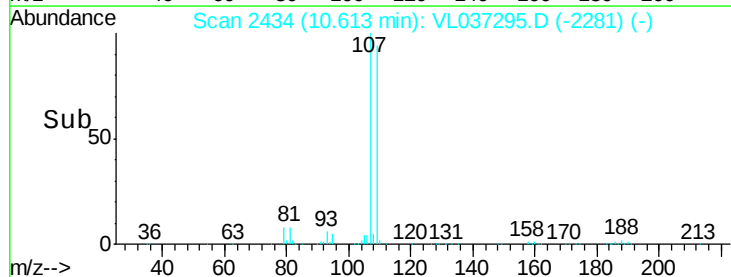
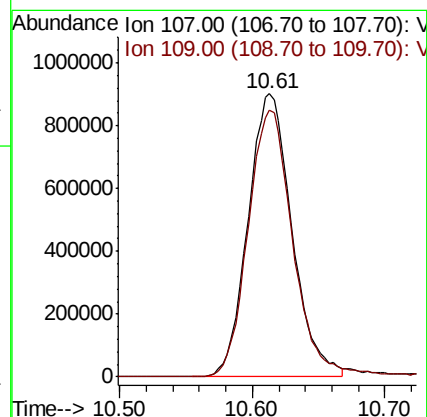
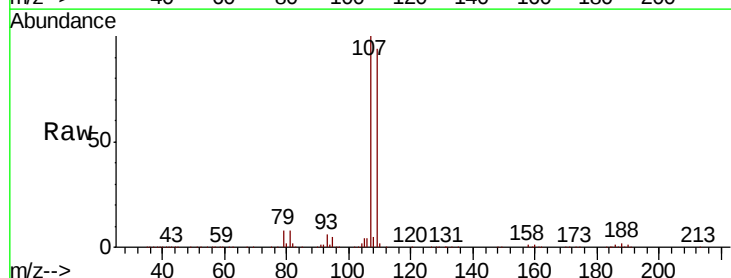
Acq: 30 Jul 2021 21:52

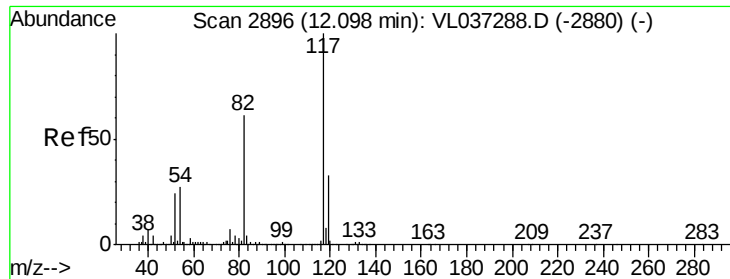
Tgt Ion: 107 Resp: 2074187

Ion Ratio Lower Upper

107 100

109 94.1 77.0 115.4





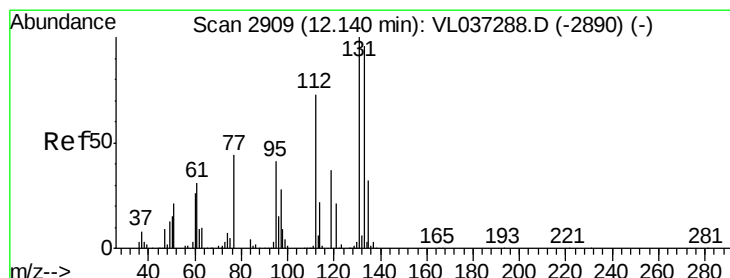
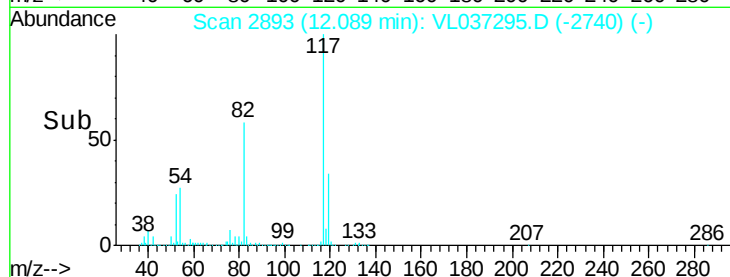
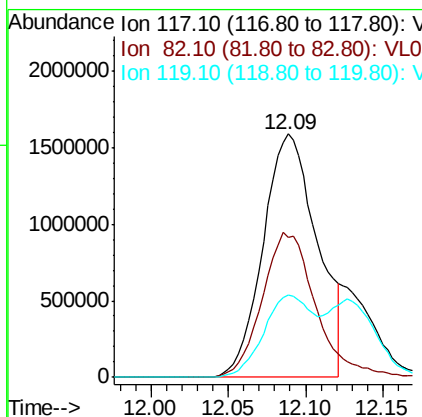
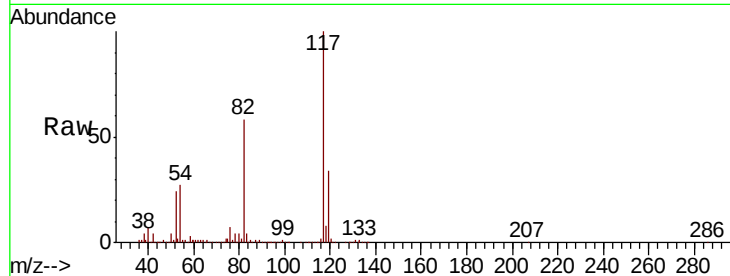
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv m  
RT: 12.09 min Scan# 2893  
Delta R.T. -0.01 min  
Lab File: VL037295.D  
Acq: 30 Jul 2021 21:52

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL073021

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 59.8  | 47.2  | 70.8  |
| 119     | 28.4  | 45.8  | 68.8# |

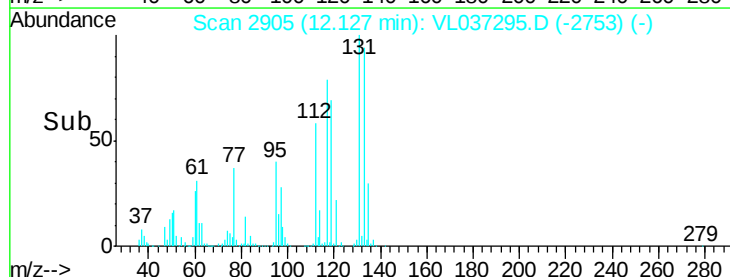
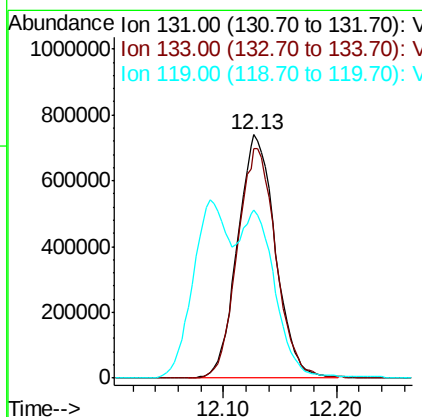
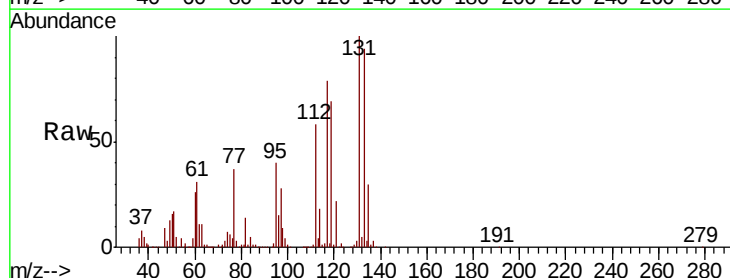
Manual Integrations  
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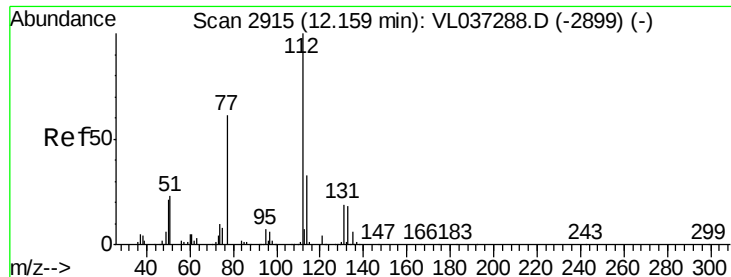
MMDadoda  
8/2/2021 8:57:57 AM



#56  
1,1,1,2-Tetrachloroethane  
Concen: 10.128 ppbv  
RT: 12.13 min Scan# 2905  
Delta R.T. -0.01 min  
Lab File: VL037295.D  
Acq: 30 Jul 2021 21:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 131     | 100   |       |       |
| 133     | 96.8  | 77.4  | 116.2 |
| 119     | 71.2  | 51.0  | 76.4  |





#57

Chlorobenzene

Concen: 9.706 ppbv

RT: 12.15 min Scan# 2912

Delta R.T. -0.01 min

Lab File: VL037295.D

Acq: 30 Jul 2021 21:52

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL073021

Tot Ion: 112 Resp: 3141919

Ion Ratio Lower Upper

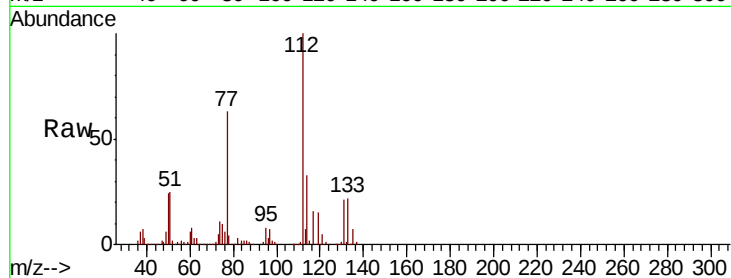
112 100

77 61.8 49.0 73.6

114 33.1 29.3 35.9

Manual Integrations  
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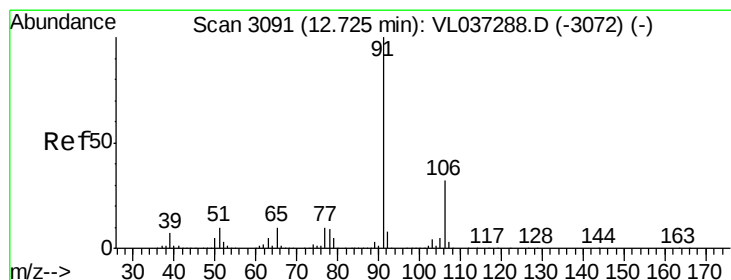
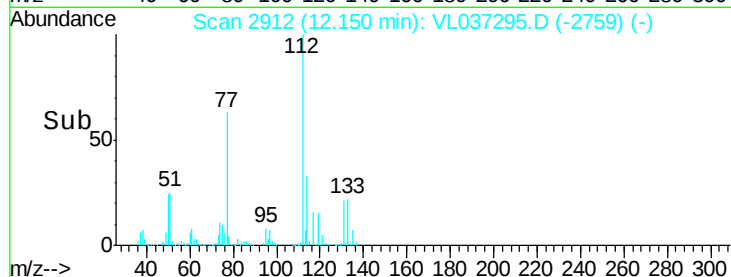
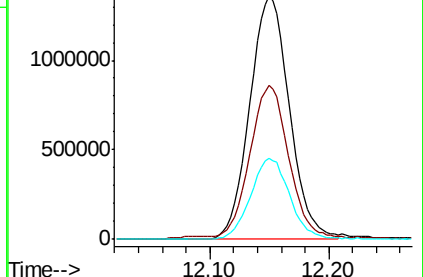
MMDadoda  
8/2/2021 8:57:57 AM



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.150 ppbv

RT: 12.71 min Scan# 3087

Delta R.T. -0.01 min

Lab File: VL037295.D

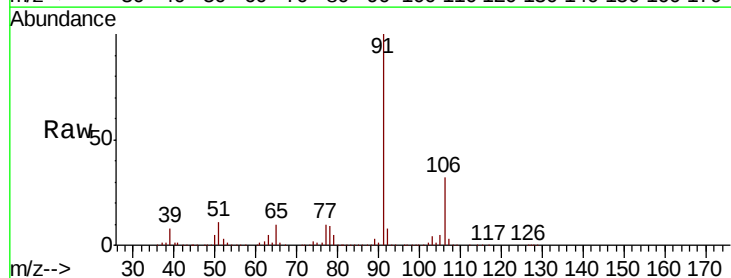
Acq: 30 Jul 2021 21:52

Tgt Ion: 91 Resp: 5400279

Ion Ratio Lower Upper

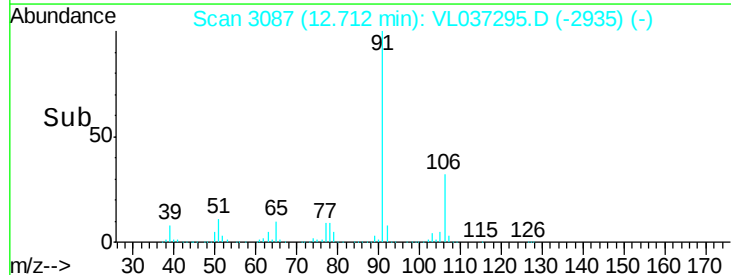
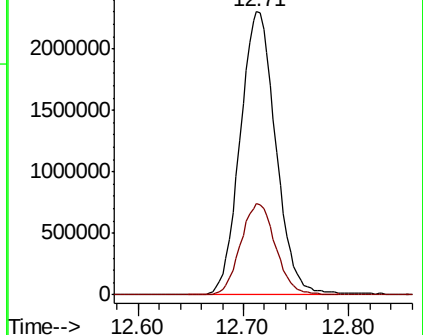
91 100

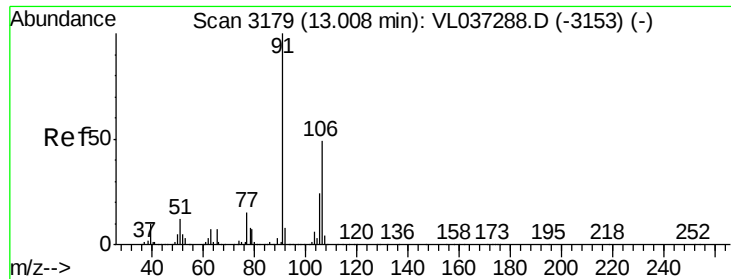
106 32.3 25.4 38.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





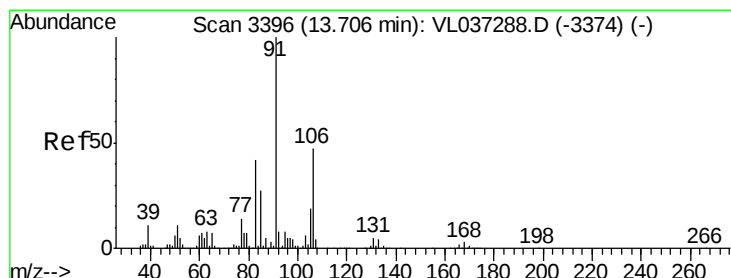
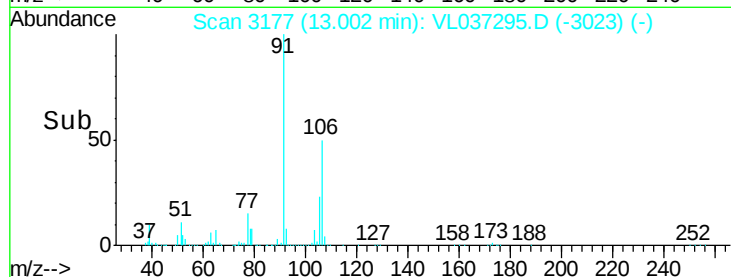
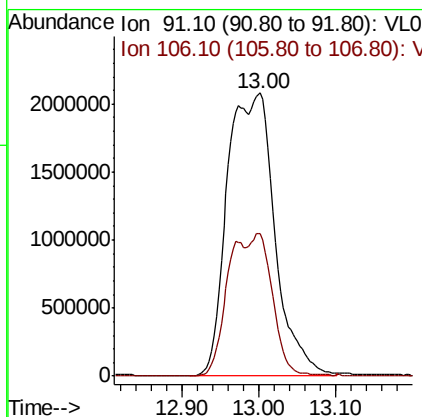
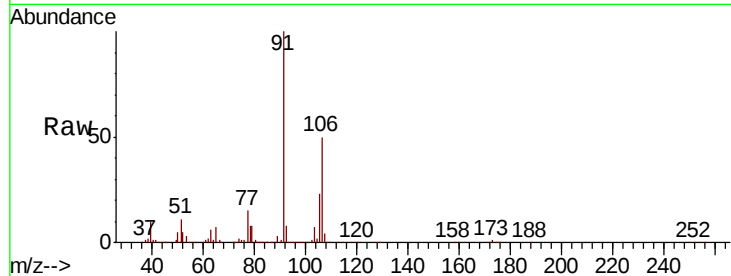
#59  
m/p-Xylene  
Concen: 19.646 ppbv m  
RT: 13.00 min Scan# 3177  
Delta R.T. -0.01 min  
Lab File: VL037295.D  
Acq: 30 Jul 2021 21:52

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL073021

Tot Ion: 91 Resp: 8998630  
Ion Ratio Lower Upper  
91 100  
106 46.9 37.3 55.9

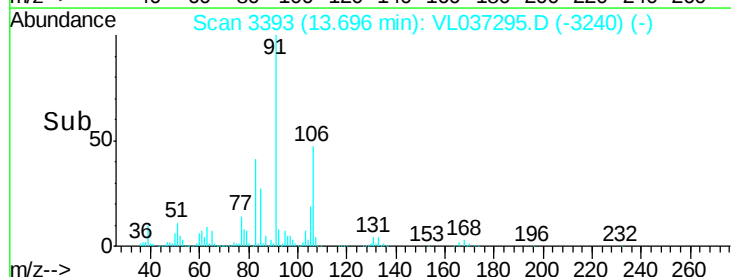
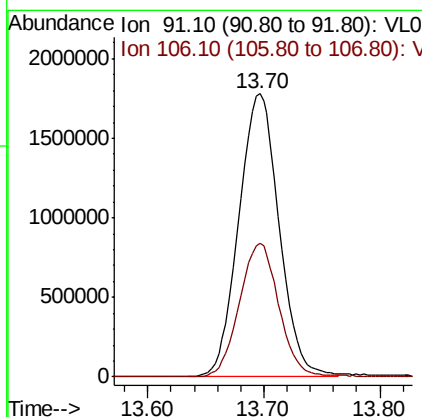
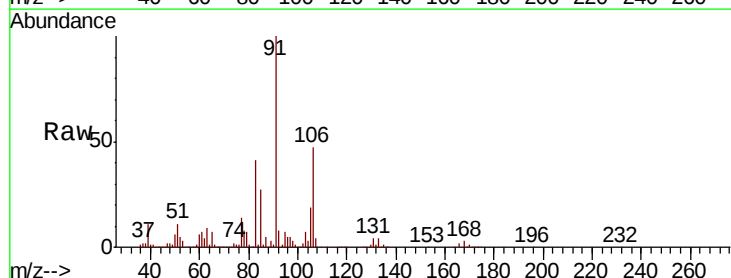
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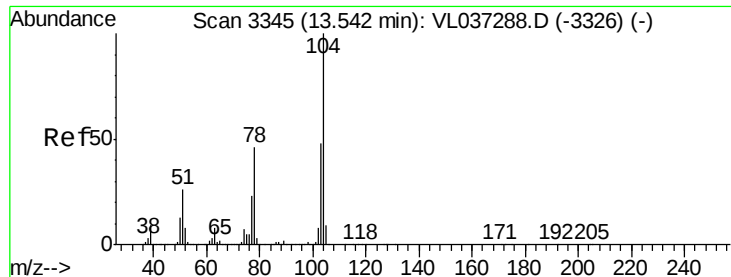
MMDadoda  
8/2/2021 8:57:57 AM



#60  
o-Xylene  
Concen: 9.818 ppbv  
RT: 13.70 min Scan# 3393  
Delta R.T. -0.01 min  
Lab File: VL037295.D  
Acq: 30 Jul 2021 21:52

Tgt Ion: 91 Resp: 4297698  
Ion Ratio Lower Upper  
91 100  
106 46.6 23.4 70.0





#61

Stvrene

Concen: 11.264 ppbv

RT: 13.53 min Scan# 3342

Delta R.T. -0.01 min

Lab File: VL037295.D

Acq: 30 Jul 2021 21:52

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL073021

Tot Ion:104 Resp: 2520277

Ion Ratio Lower Upper

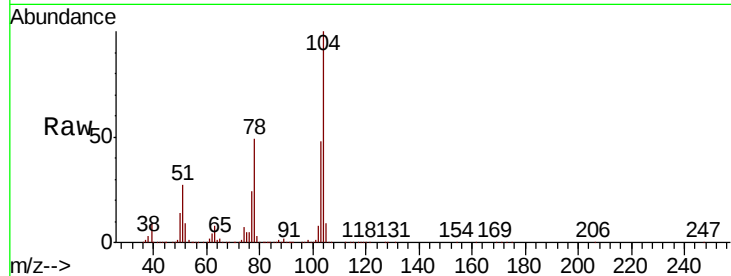
104 100

78 48.4 39.0 58.6

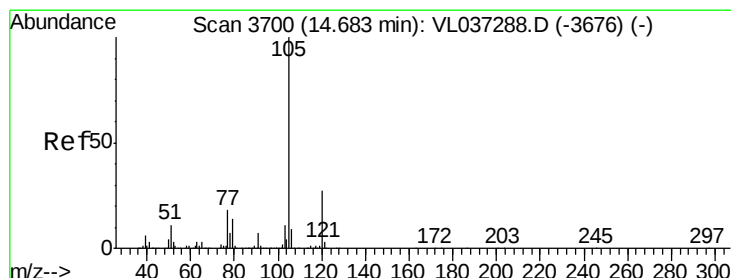
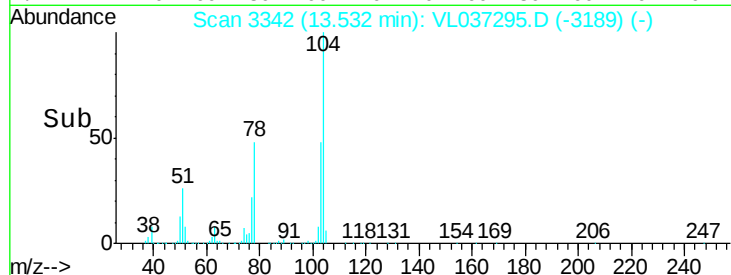
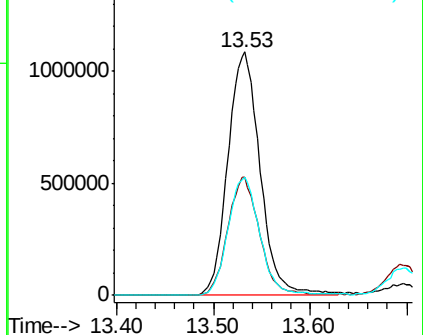
103 48.2 38.6 58.0

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8/2/2021 8:57:57 AM



Abundance Ion 104.10 (103.80 to 104.80): V  
Ion 78.10 (77.80 to 78.80): VL0  
Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 9.863 ppbv

RT: 14.67 min Scan# 3696

Delta R.T. -0.01 min

Lab File: VL037295.D

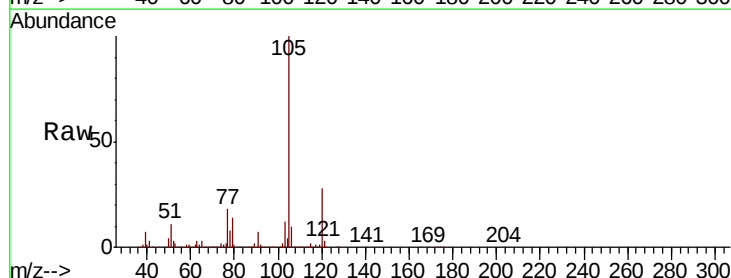
Acq: 30 Jul 2021 21:52

Tgt Ion:105 Resp: 6097906

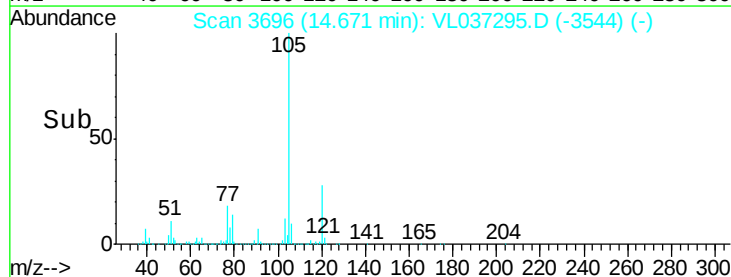
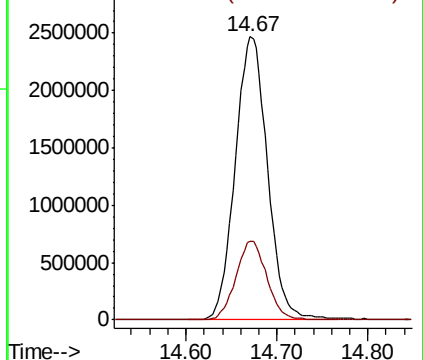
Ion Ratio Lower Upper

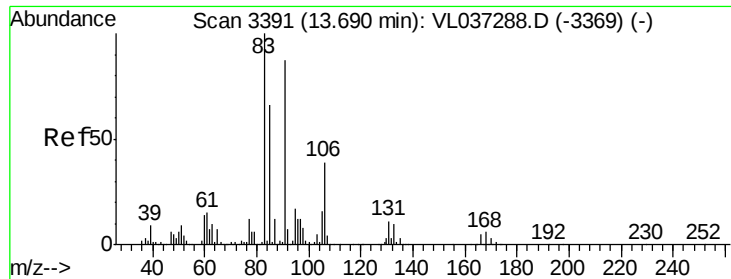
105 100

120 27.0 21.8 32.6



Abundance Ion 105.10 (104.80 to 105.80): V  
Ion 120.20 (119.90 to 120.90): V





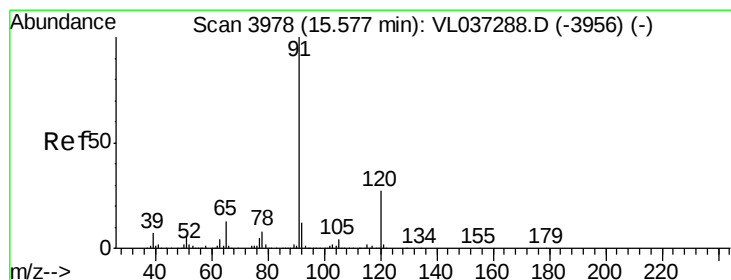
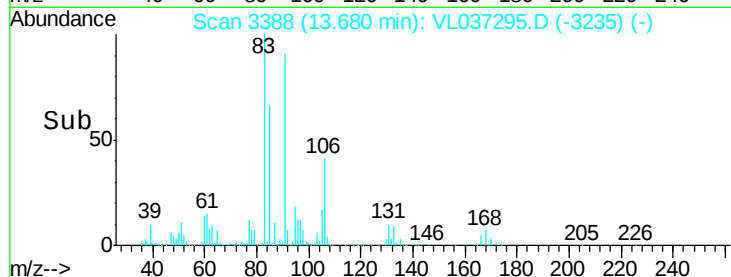
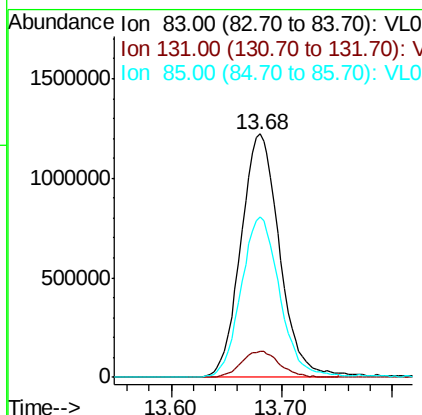
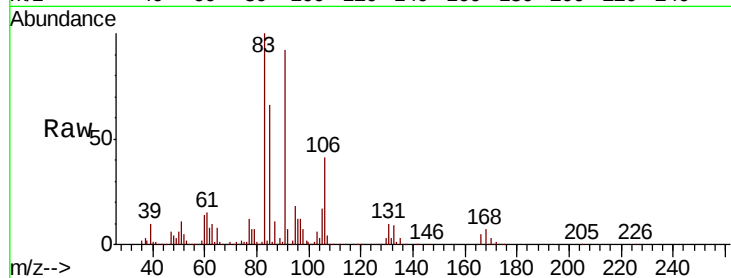
#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 9.570 ppbv  
 RT: 13.68 min Scan# 3388  
 Delta R.T. -0.01 min  
 Lab File: VL037295.D  
 Acq: 30 Jul 2021 21:52

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL073021

Tot Ion: 83 Resp: 2954494  
 Ion Ratio Lower Upper  
 83 100  
 131 10.9 5.5 16.5  
 85 67.4 33.6 100.8

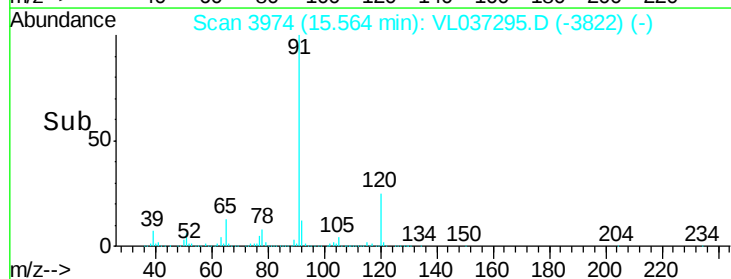
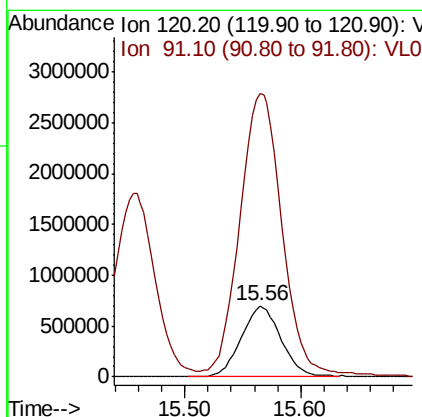
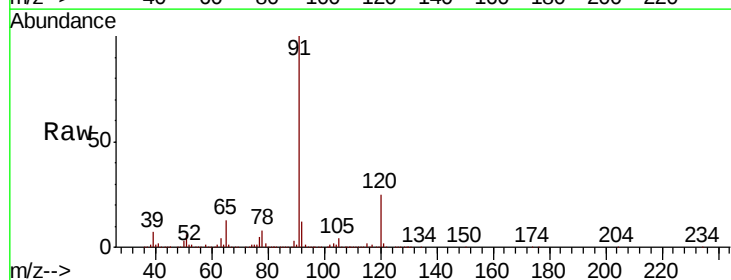
Manual Integrations  
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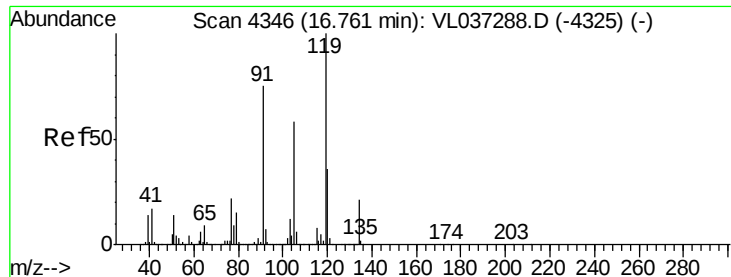
MMDadoda  
 8/2/2021 8:57:57 AM



#64  
 n-propylbenzene  
 Concen: 10.332 ppbv  
 RT: 15.56 min Scan# 3974  
 Delta R.T. -0.01 min  
 Lab File: VL037295.D  
 Acq: 30 Jul 2021 21:52

Tgt Ion: 120 Resp: 1656444  
 Ion Ratio Lower Upper  
 120 100  
 91 429.9 347.0 520.4





#65

tert-Butylbenzene

Concen: 9.736 ppbv

RT: 16.75 min Scan# 4343

Delta R.T. -0.01 min

Lab File: VL037295.D

Acq: 30 Jul 2021 21:52

Instrument :

MSVOA\_L

ClientSampled :

ICVVL073021

Tot Ion:119 Resp: 5571402

Ion Ratio Lower Upper

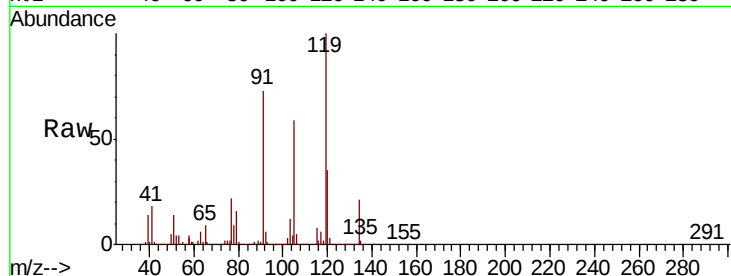
119 100

91 75.3 60.5 90.7

134 20.4 16.2 24.4

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APPROVED

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8/2/2021 8:57:57 AM



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

2500000

2000000

1500000

1000000

500000

0

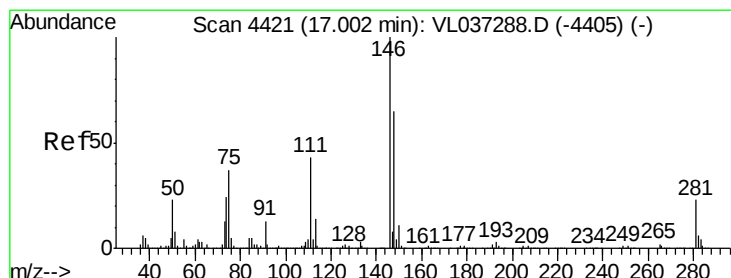
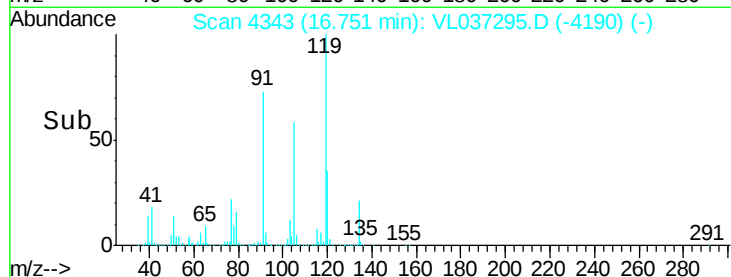
16.75

16.70

16.80

16.90

Time-->



#66

Benzyl Chloride

Concen: 8.780 ppbv m

RT: 17.00 min Scan# 4419

Delta R.T. -0.01 min

Lab File: VL037295.D

Acq: 30 Jul 2021 21:52

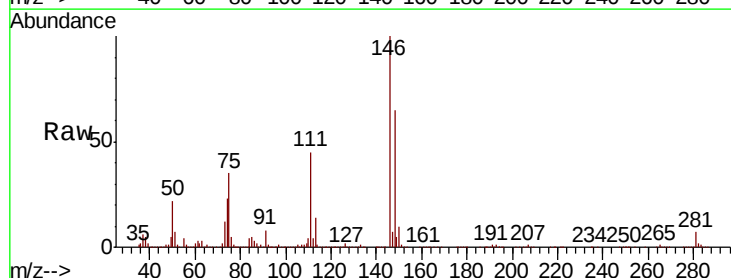
Tgt Ion: 91 Resp: 246891

Ion Ratio Lower Upper

91 100

126 15.7 15.4 23.0

128 5.9 5.0 7.4



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

120000

100000

80000

60000

40000

20000

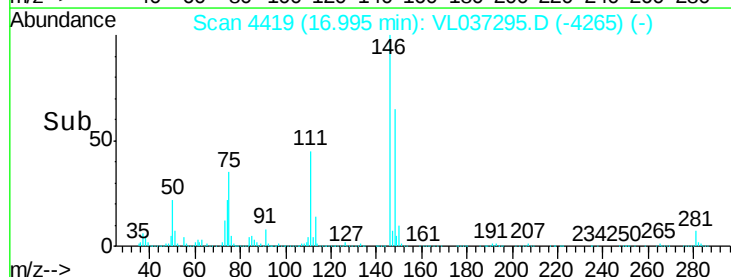
0

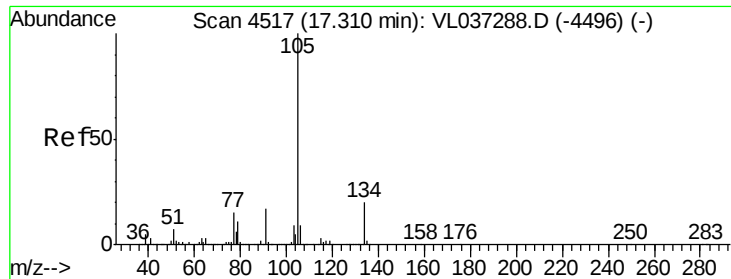
17.00

16.90

17.10

Time-->





#67

sec-Butylbenzene

Concen: 9.785 ppbv

RT: 17.30 min Scan# 4513

Delta R.T. -0.01 min

Lab File: VL037295.D

Acq: 30 Jul 2021 21:52

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL073021

Tot Ion: 105 Resp: 7403547

Ion Ratio Lower Upper

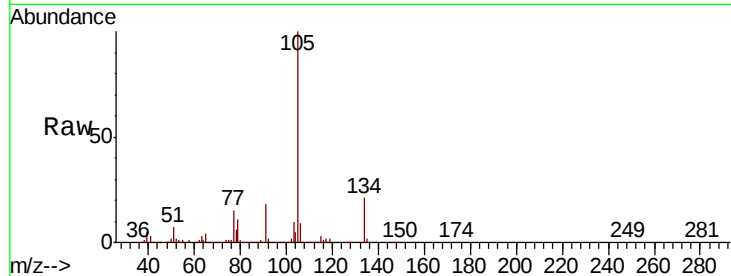
105 100

134 19.8 15.8 23.6

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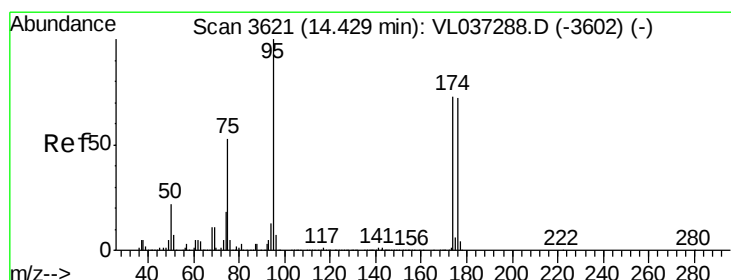
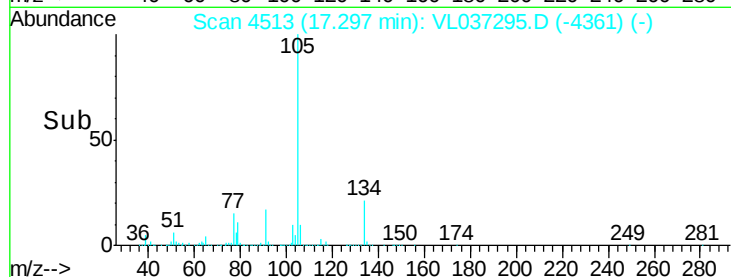
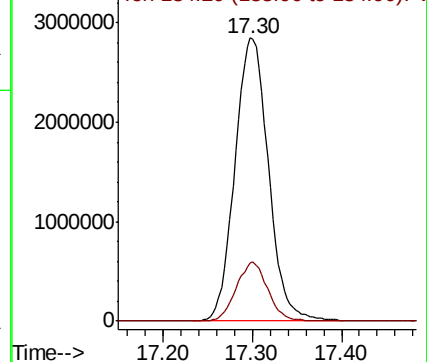
MMDadoda

8/2/2021 8:57:57 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.065 ppbv

RT: 14.42 min Scan# 3618

Delta R.T. -0.01 min

Lab File: VL037295.D

Acq: 30 Jul 2021 21:52

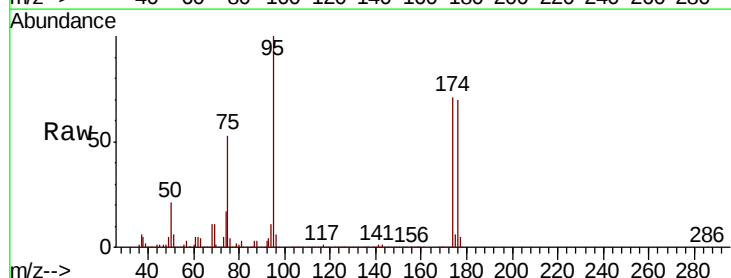
Tgt Ion: 95 Resp: 2833711

Ion Ratio Lower Upper

95 100

174 74.5 59.8 89.6

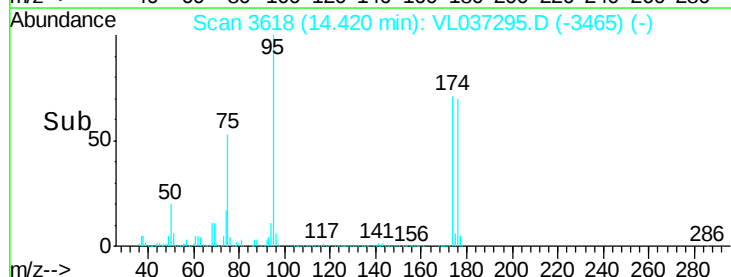
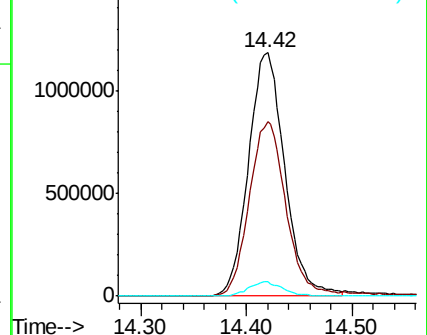
175 5.6 4.5 6.7

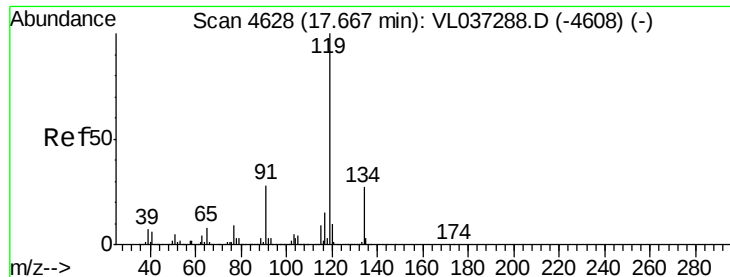


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





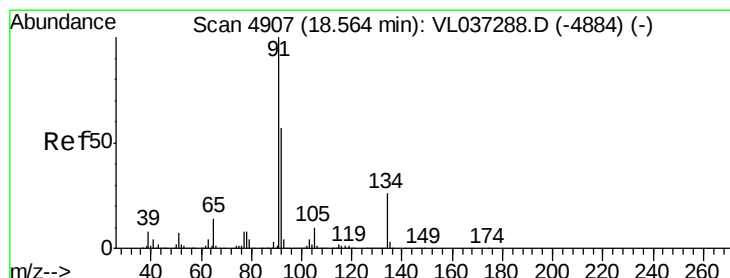
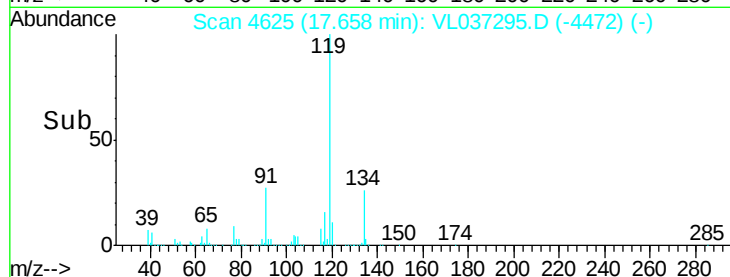
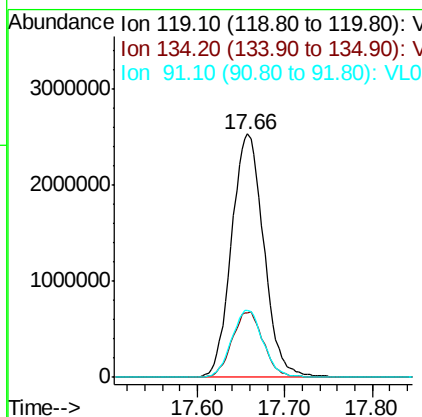
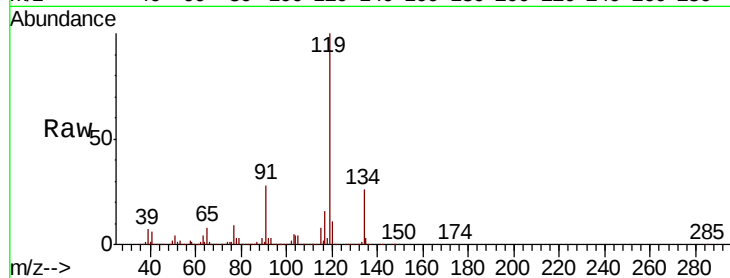
#69  
 p-Isopropyltoluene  
 Concen: 9.968 ppbv  
 RT: 17.66 min Scan# 4625  
 Delta R.T. -0.01 min  
 Lab File: VL037295.D  
 Acq: 30 Jul 2021 21:52

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL073021

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 26.3  | 21.1  | 31.7  |
| 91      | 27.1  | 21.8  | 32.6  |

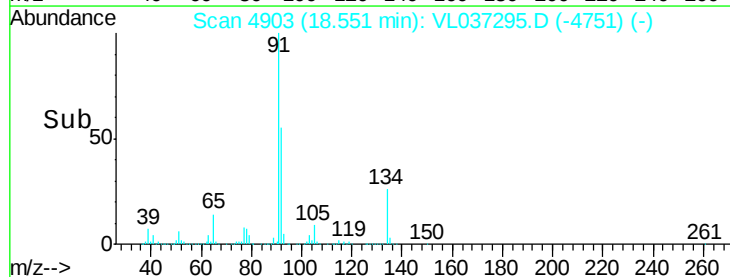
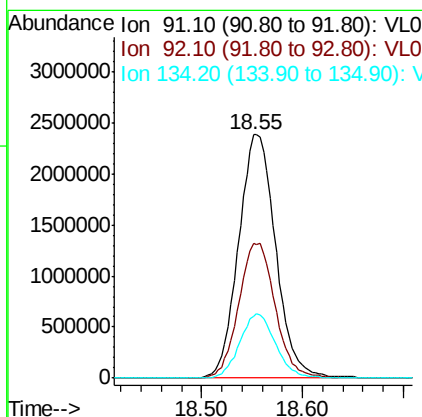
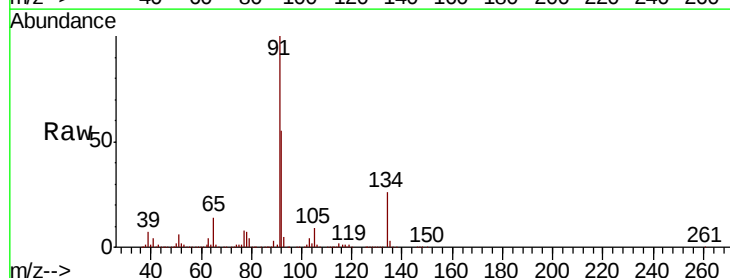
Manual Integrations  
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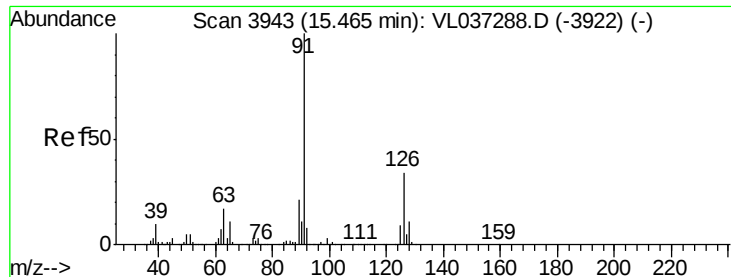
MMDadoda  
 8/2/2021 8:57:57 AM



#70  
 n-Butylbenzene  
 Concen: 9.926 ppbv  
 RT: 18.55 min Scan# 4903  
 Delta R.T. -0.01 min  
 Lab File: VL037295.D  
 Acq: 30 Jul 2021 21:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 54.8  | 43.6  | 65.4  |
| 134     | 25.5  | 20.3  | 30.5  |





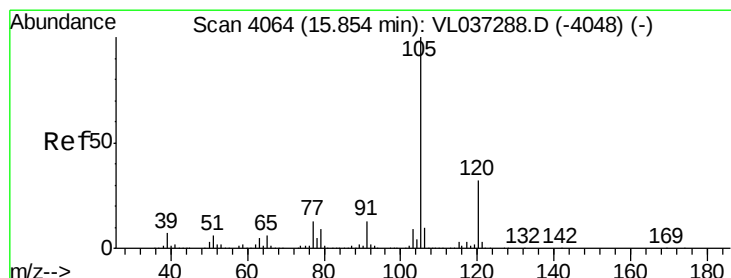
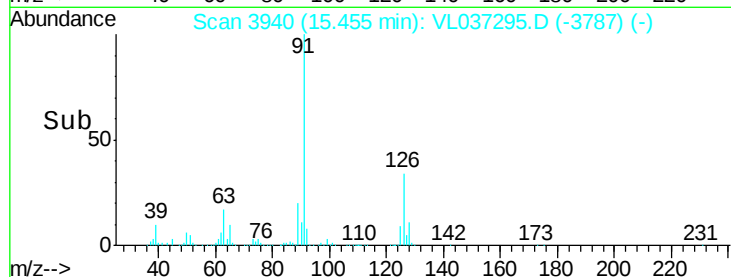
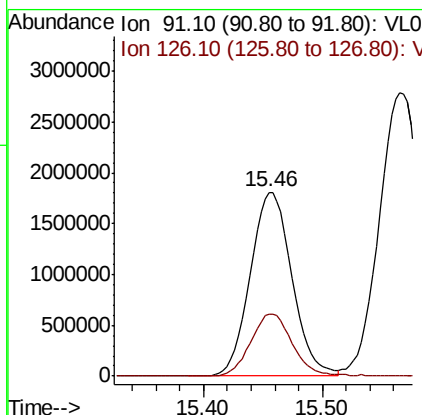
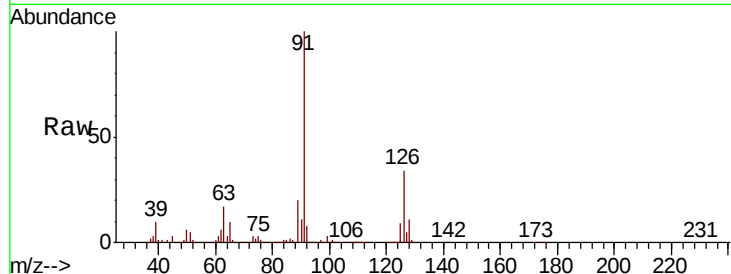
#71  
 2-Chlorotoluene  
 Concen: 9.973 ppbv  
 RT: 15.46 min Scan# 3940  
 Delta R.T. -0.01 min  
 Lab File: VL037295.D  
 Acq: 30 Jul 2021 21:52

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL073021

Tot Ion: 91 Resp: 4394652  
 Ion Ratio Lower Upper  
 91 100  
 126 34.4 13.8 55.2

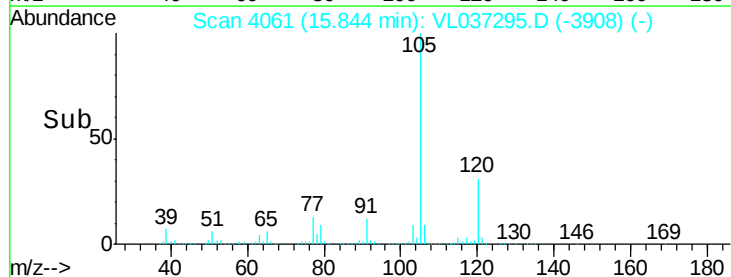
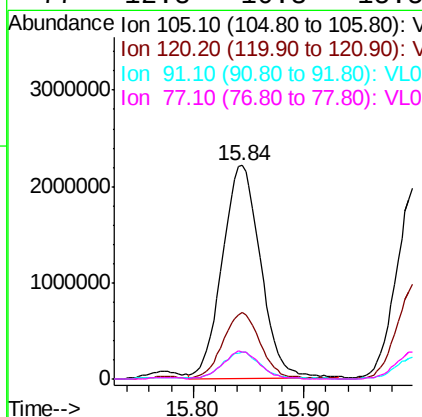
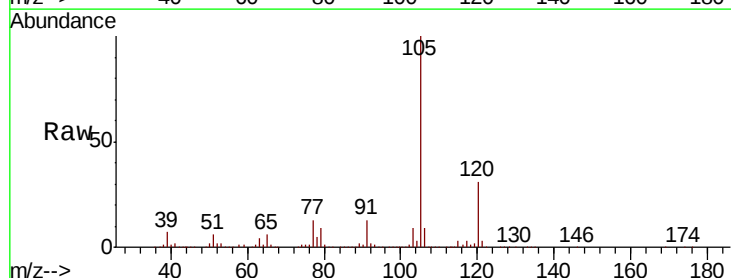
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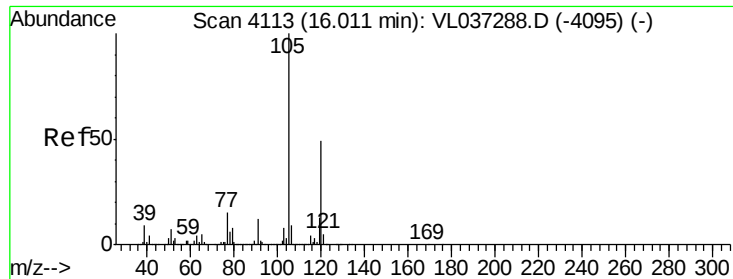
MMDadoda  
 8/2/2021 8:57:57 AM



#72  
 4-Ethyltoluene  
 Concen: 10.340 ppbv  
 RT: 15.84 min Scan# 4061  
 Delta R.T. -0.01 min  
 Lab File: VL037295.D  
 Acq: 30 Jul 2021 21:52

Tgt Ion: 105 Resp: 5359605  
 Ion Ratio Lower Upper  
 105 100  
 120 30.5 24.3 36.5  
 91 12.0 9.6 14.4  
 77 12.8 10.3 15.5





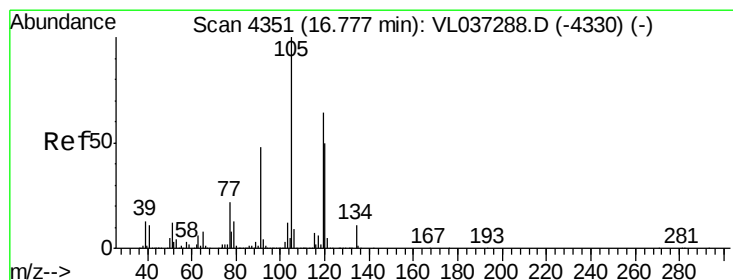
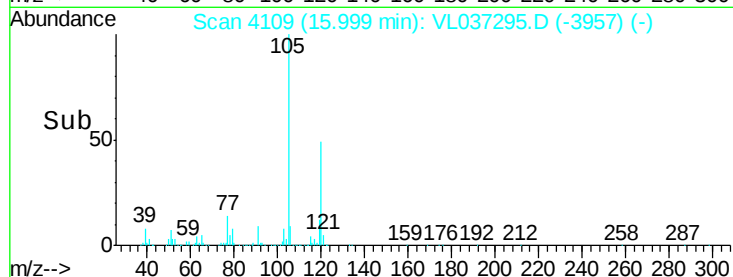
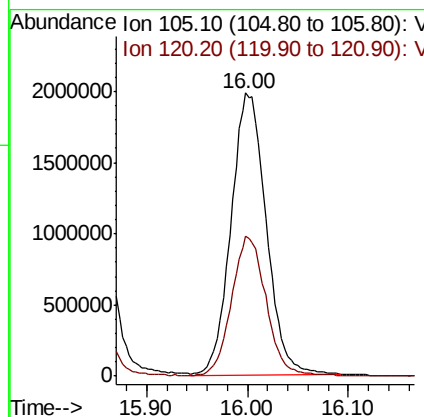
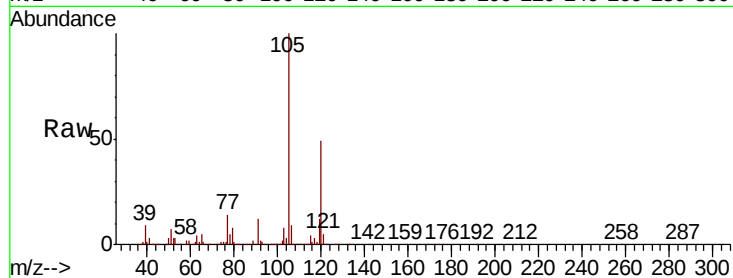
#73  
 1,3,5-Trimethylbenzene  
 Concen: 10.014 ppbv  
 RT: 16.00 min Scan# 4109  
 Delta R.T. -0.01 min  
 Lab File: VL037295.D  
 Acq: 30 Jul 2021 21:52

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL073021

Tot Ion:105 Resp: 4794133  
 Ion Ratio Lower Upper  
 105 100  
 120 49.3 39.0 58.6

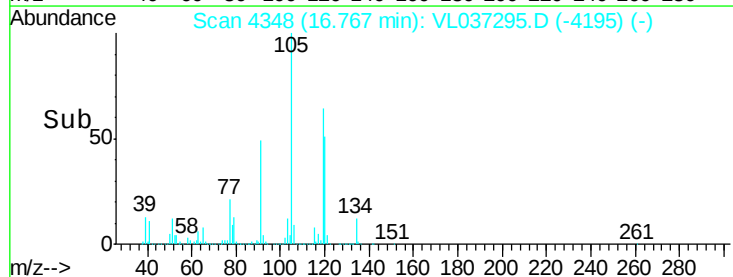
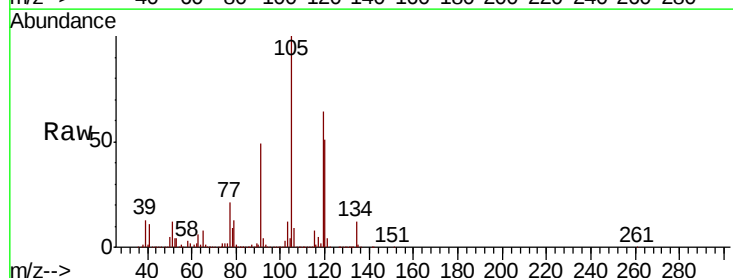
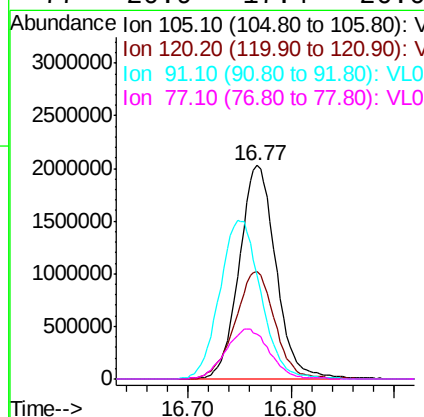
Manual Integrations  
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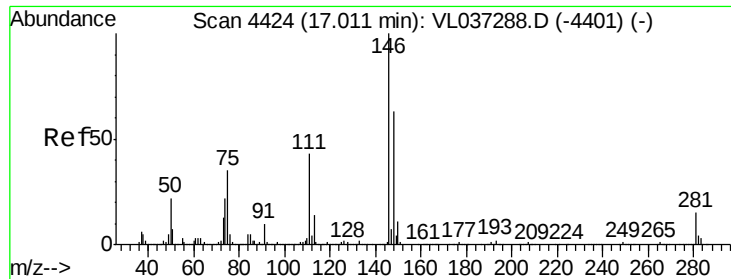
MMDadoda  
 8/2/2021 8:57:57 AM



#74  
 1,2,4-Trimethylbenzene  
 Concen: 9.479 ppbv  
 RT: 16.77 min Scan# 4348  
 Delta R.T. -0.01 min  
 Lab File: VL037295.D  
 Acq: 30 Jul 2021 21:52

Tgt Ion:105 Resp: 5002894  
 Ion Ratio Lower Upper  
 105 100  
 120 50.3 40.2 60.4  
 91 48.4 39.0 58.6  
 77 20.9 17.4 26.0





#75

1,3-Dichlorobenzene

Concen: 9.863 ppbv

RT: 17.00 min Scan# 4420

Delta R.T. -0.01 min

Lab File: VL037295.D

Acq: 30 Jul 2021 21:52

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL073021

Tot Ion:146 Resp: 3130014

Ion Ratio Lower Upper

146 100

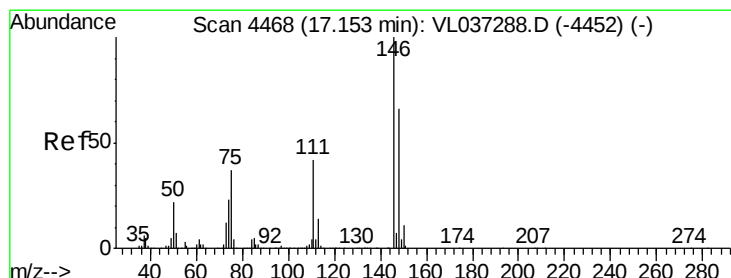
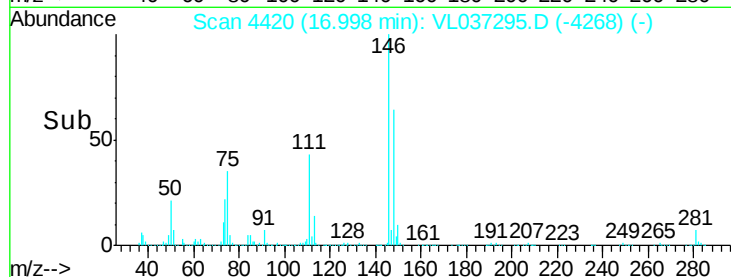
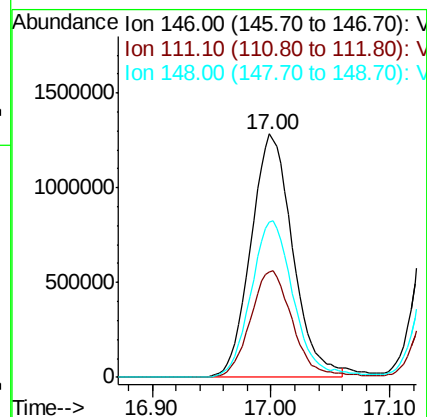
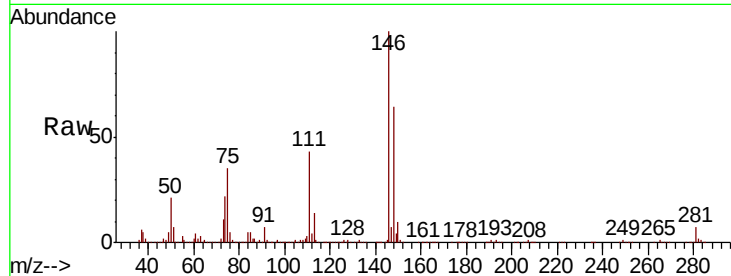
111 44.2 21.7 65.1

148 65.4 32.3 96.9

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#76

1,4-Dichlorobenzene

Concen: 9.527 ppbv

RT: 17.14 min Scan# 4464

Delta R.T. -0.01 min

Lab File: VL037295.D

Acq: 30 Jul 2021 21:52

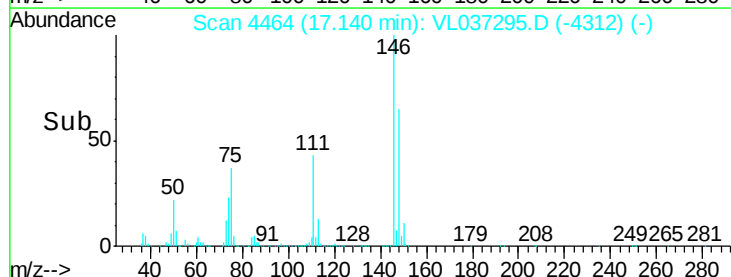
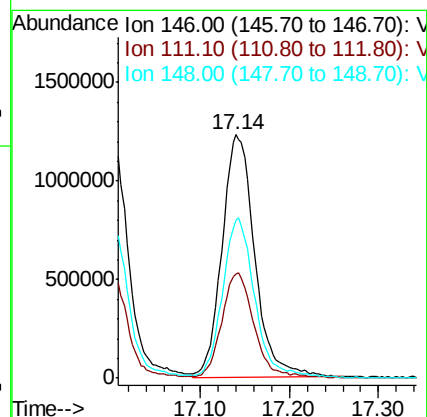
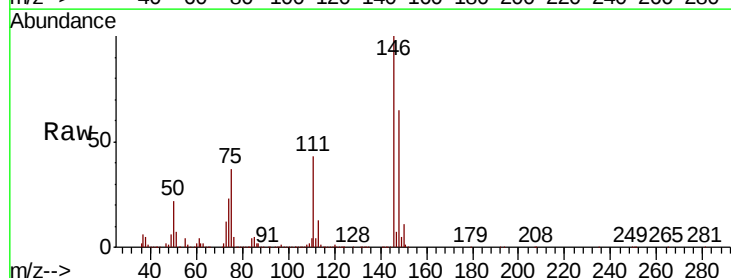
Tgt Ion:146 Resp: 3121673

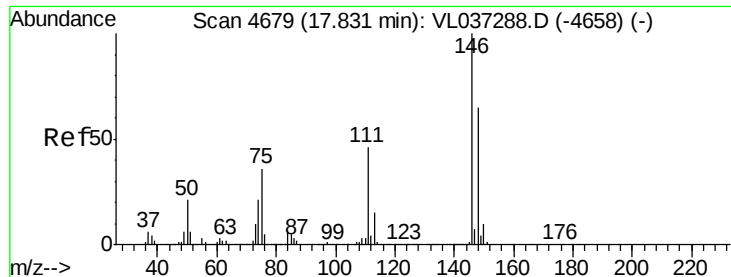
Ion Ratio Lower Upper

146 100

111 42.8 21.2 63.6

148 65.2 32.9 98.6





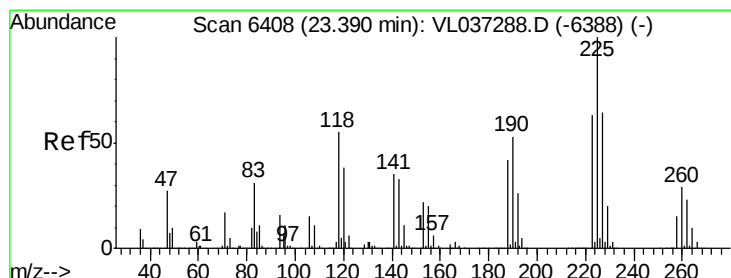
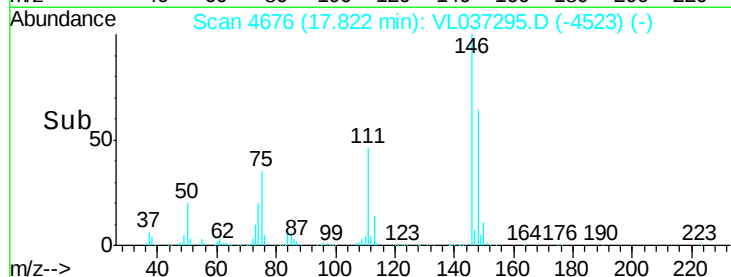
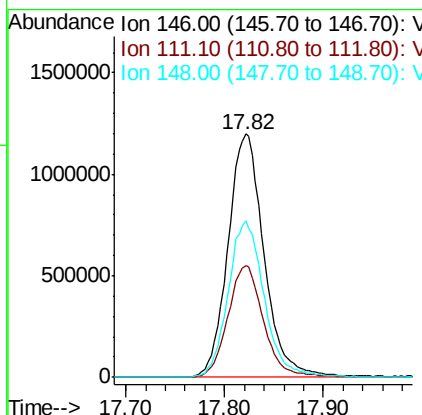
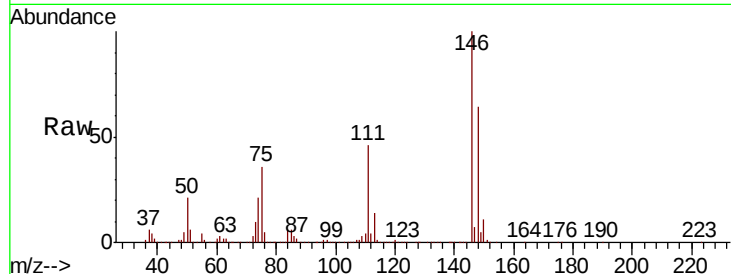
#77  
 1,2-Dichlorobenzene  
 Concen: 9.908 ppbv  
 RT: 17.82 min Scan# 4676  
 Delta R.T. -0.01 min  
 Lab File: VL037295.D  
 Acq: 30 Jul 2021 21:52

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL073021

Tot Ion:146 Resp: 3018467  
 Ion Ratio Lower Upper  
 146 100  
 111 45.8 22.6 67.7  
 148 64.8 32.5 97.4

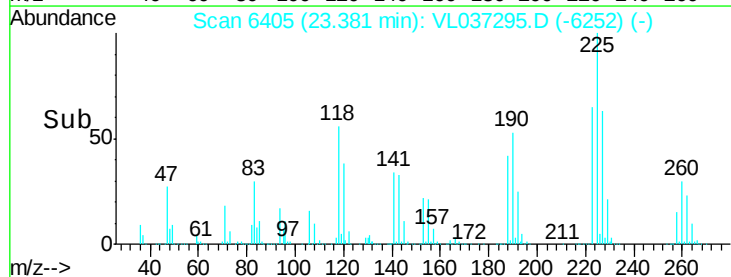
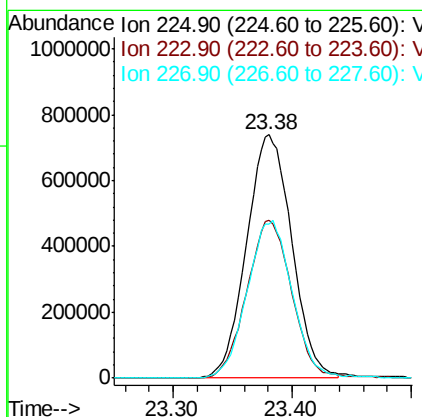
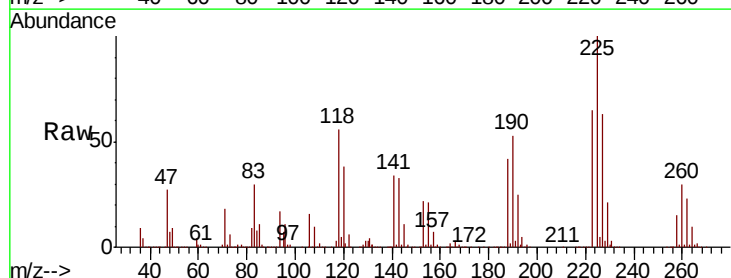
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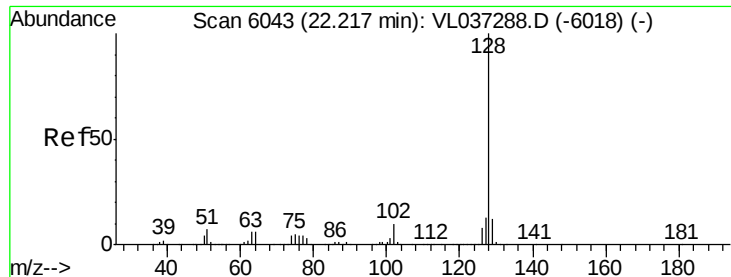
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#78  
 Hexachloro-1,3-Butadiene  
 Concen: 8.511 ppbv  
 RT: 23.38 min Scan# 6405  
 Delta R.T. -0.01 min  
 Lab File: VL037295.D  
 Acq: 30 Jul 2021 21:52

Tgt Ion:225 Resp: 1944960  
 Ion Ratio Lower Upper  
 225 100  
 223 64.9 51.7 77.5  
 227 64.9 51.8 77.8





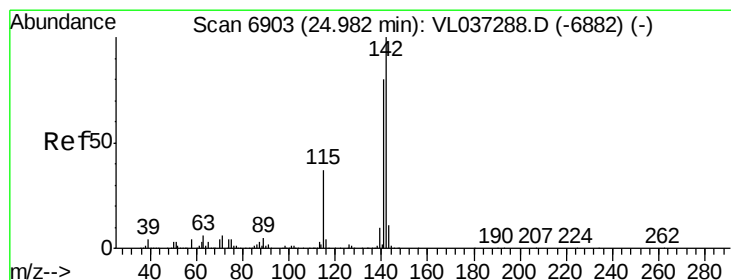
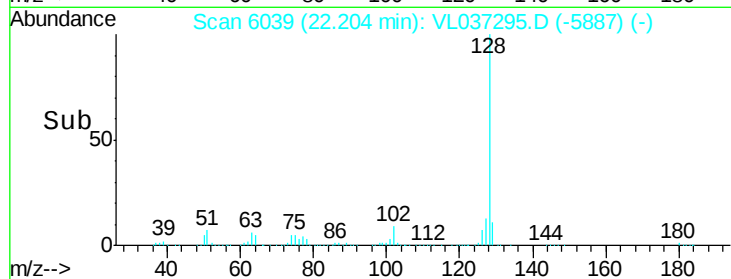
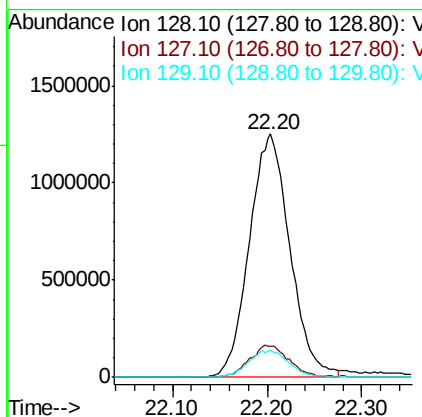
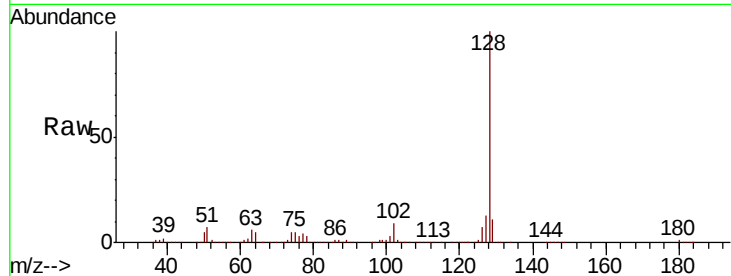
#79  
Naphthalene  
Concen: 9.006 ppbv  
RT: 22.20 min Scan# 6039  
Delta R.T. -0.01 min  
Lab File: VL037295.D  
Acq: 30 Jul 2021 21:52

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL073021

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 12.7  | 10.7  | 16.1  |
| 129     | 11.0  | 9.4   | 14.2  |

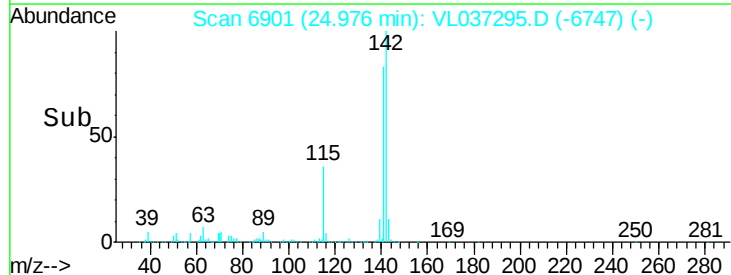
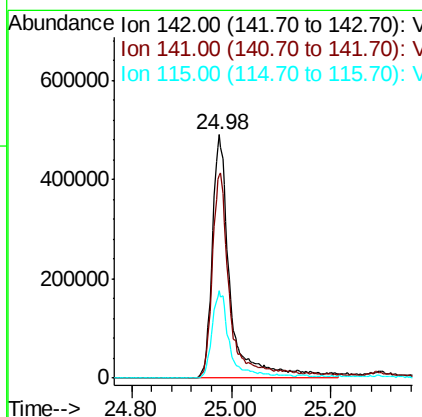
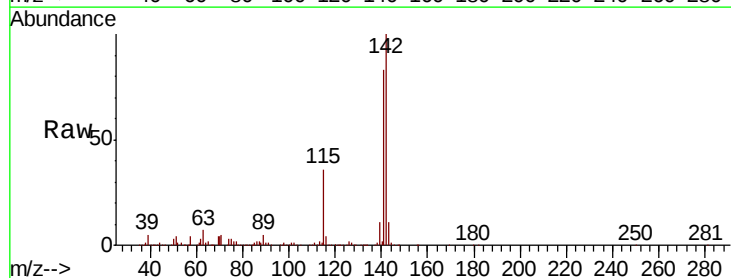
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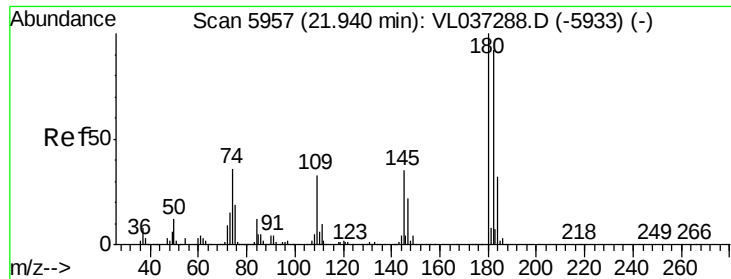
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#80  
Naphthalene, 2-methyl-  
Concen: 10.507 ppbv  
RT: 24.98 min Scan# 6901  
Delta R.T. -0.01 min  
Lab File: VL037295.D  
Acq: 30 Jul 2021 21:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 83.4  | 67.0  | 100.6 |
| 115     | 35.3  | 28.6  | 42.8  |





#81  
 1,2,4-Trichlorobenzene  
 Concen: 9.012 ppbv m  
 RT: 21.93 min Scan# 5953  
 Delta R.T. -0.01 min  
 Lab File: VL037295.D  
 Acq: 30 Jul 2021 21:52

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL073021

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 180     | 100   |       |        |
| 182     | 0.0   | 80.8  | 121.2# |
| 184     | 0.0   | 25.4  | 38.2#  |

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