

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091219\  
 Data File : VL034162.D  
 Acq On : 12 Sep 2019 17:49  
 Operator : SY/AP  
 Sample : VL0912ABS01  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0912ABS01

Manual Integrations  
 APPROVED

MMDadoda  
 9/14/2019 12:09:47 AM

Quant Time: Sep 13 02:04:13 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL090519AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Sep 0  
 QLast Update : Thu Sep 05 10:21:45 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.70  | 49   | 1252600  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.23  | 114  | 2231974  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.17 | 117  | 2465706m | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.51  | 95    | 1916339  | 9.51     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 95.10% |

| Target Compounds               | R.T. | QIon | Response | Conc   | Units  | Ovalue |
|--------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.03 | 85   | 1486022  | 7.192  | ppbv   | 97     |
| 3) Chlorodifluoromethane       | 2.97 | 51   | 1456608  | 10.432 | ppbv   | 99     |
| 4) Chloromethane               | 3.13 | 50   | 800548   | 9.171  | ppbv   | 94     |
| 5) Vinyl Chloride              | 3.25 | 62   | 724217   | 9.108  | ppbv   | 99     |
| 6) Bromomethane                | 3.47 | 94   | 363293   | 9.258  | ppbv   | 99     |
| 7) Chloroethane                | 3.55 | 64   | 258281   | 9.534  | ppbv   | 89     |
| 8) Dichlorotetrafluoroethane   | 3.18 | 85   | 1487861  | 8.947  | ppbv   | 99     |
| 9) Propene                     | 3.00 | 41   | 700074   | 8.961  | ppbv   | 99     |
| 10) Heptane                    | 8.18 | 43   | 1851229  | 9.131  | ppbv   | 99     |
| 11) Trichlorofluoromethane     | 3.95 | 101  | 1561025  | 9.265  | ppbv   | 97     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.50 | 101  | 1050159  | 9.316  | ppbv   | 98     |
| 13) Ethanol                    | 3.60 | 45   | 173252   | 11.321 | ppbv   | 98     |
| 14) Bromoethene                | 3.74 | 108  | 434490   | 8.903  | ppbv   | 99     |
| 15) Acetone                    | 3.85 | 43   | 1327113  | 8.791  | ppbv   | 99     |
| 16) 1,3-Butadiene              | 3.32 | 39   | 719091   | 9.406  | ppbv   | 97     |
| 17) tert-Butyl alcohol         | 4.30 | 59   | 1178269  | 10.751 | ppbv   | 99     |
| 18) 1,1-Dichloroethene         | 4.30 | 96   | 475293   | 9.229  | ppbv   | 98     |
| 19) Isopropyl Alcohol          | 3.97 | 45   | 1101088  | 10.806 | ppbv   | 100    |
| 20) Methylene Chloride         | 4.35 | 84   | 432389   | 8.663  | ppbv   | 96     |
| 21) Allyl Chloride             | 4.42 | 41   | 912339   | 9.167  | ppbv   | 100    |
| 22) trans-1,2-Dichloroethene   | 4.91 | 96   | 464456   | 9.010  | ppbv   | 90     |
| 23) Vinyl Acetate              | 5.10 | 43   | 2383101  | 9.305  | ppbv   | 99     |
| 24) 1,1-Dichloroethane         | 5.03 | 63   | 1558779  | 9.170  | ppbv   | 98     |
| 25) Ethyl Acetate              | 5.71 | 43   | 2809155  | 8.477  | ppbv   | 100    |
| 26) Hexane                     | 5.72 | 57   | 1248521  | 8.474  | ppbv   | 97     |
| 27) Carbon Disulfide           | 4.56 | 76   | 1237783  | 9.309  | ppbv   | 99     |
| 28) Methyl tert-Butyl Ether    | 5.05 | 73   | 1933190  | 8.955  | ppbv   | 99     |
| 29) Chloroform                 | 5.79 | 83   | 1810321  | 9.110  | ppbv   | 97     |
| 30) Cyclohexane                | 7.18 | 84   | 962883   | 9.040  | ppbv   | 96     |
| 31) cis-1,2-Dichloroethene     | 5.58 | 61   | 1313541  | 9.310  | ppbv   | 95     |
| 32) 1,1,1-Trichloroethane      | 6.56 | 97   | 1701128  | 9.061  | ppbv   | 97     |
| 34) 2-Butanone                 | 5.27 | 43   | 2038259  | 9.499  | ppbv   | 98     |
| 35) Carbon Tetrachloride       | 7.07 | 117  | 1667507  | 9.583  | ppbv   | 98     |
| 36) Benzene                    | 6.94 | 78   | 2329315  | 9.130  | ppbv   | 98     |
| 37) 1,2-Dichloroethane         | 6.35 | 62   | 1565871  | 10.005 | ppbv   | 99     |
| 38) Trichloroethene            | 7.90 | 130  | 773237   | 8.122  | ppbv   | 93     |
| 39) 1,2-Dichloropropane        | 7.67 | 63   | 1041590  | 9.540  | ppbv   | 96     |
| 40) 1,4-Dioxane                | 7.89 | 88   | 357884   | 8.920  | ppbv # | 99     |
| 41) Tetrahydrofuran            | 6.09 | 42   | 1235882  | 9.607  | ppbv   | 98     |
| 42) Bromodichloromethane       | 7.85 | 83   | 1992020  | 9.766  | ppbv   | 100    |
| 43) Methyl Methacrylate        | 8.07 | 69   | 1029576  | 9.796  | ppbv   | 95     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091219\  
 Data File : VL034162.D  
 Acq On : 12 Sep 2019 17:49  
 Operator : SY/AP  
 Sample : VL0912ABS01  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0912ABS01

Manual Integrations  
 APPROVED

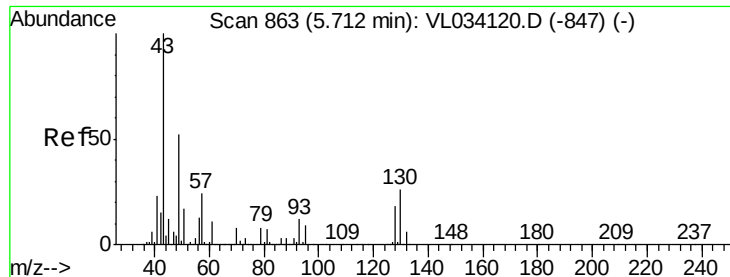
MMDadoda  
 9/14/2019 12:09:47 AM

Quant Time: Sep 13 02:04:13 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL090519AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Sep 0  
 QLast Update : Thu Sep 05 10:21:45 2019  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.92  | 57   | 4215967  | 8.963  | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 9.35  | 75   | 1226343  | 9.928  | ppbv   | 99       |
| 46) cis-1,3-Dichloropropene   | 8.77  | 75   | 1432304  | 9.531  | ppbv   | 99       |
| 47) 1,1,2-Trichloroethane     | 9.55  | 97   | 929873   | 9.348  | ppbv   | 95       |
| 48) Dibromochloromethane      | 10.38 | 129  | 1496238  | 10.081 | ppbv   | 97       |
| 49) Bromoform                 | 13.13 | 173  | 1249772  | 9.604  | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.80  | 43   | 2995993  | 9.150  | ppbv   | 99       |
| 51) 2-Hexanone                | 10.20 | 43   | 2579408  | 9.119  | ppbv # | 98       |
| 52) Tetrachloroethene         | 11.30 | 164  | 736935m  | 8.192  | ppbv   |          |
| 53) Toluene                   | 9.88  | 91   | 2581834  | 9.150  | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.69 | 107  | 1424924  | 9.616  | ppbv   | 97       |
| 56) 1,1,1,2-Tetrachloroethane | 12.21 | 131  | 992078   | 9.381  | ppbv # | 59       |
| 57) Chlorobenzene             | 12.23 | 112  | 1830304  | 8.629  | ppbv   | 100      |
| 58) Ethyl Benzene             | 12.79 | 91   | 3492793  | 8.639  | ppbv   | 100      |
| 59) m/p-Xylene                | 13.05 | 91   | 5632851m | 17.078 | ppbv   |          |
| 60) o-Xylene                  | 13.78 | 91   | 2845334  | 8.661  | ppbv   | 99       |
| 61) Styrene                   | 13.62 | 104  | 2111141  | 8.591  | ppbv   | 98       |
| 62) Isopropylbenzene          | 14.75 | 105  | 3700034  | 8.656  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.77 | 83   | 2117581  | 7.910  | ppbv   | 100      |
| 64) n-propylbenzene           | 15.65 | 120  | 976519   | 9.120  | ppbv   | 97       |
| 65) tert-Butylbenzene         | 16.84 | 119  | 3137297  | 8.505  | ppbv   | 98       |
| 66) Benzyl Chloride           | 17.09 | 91   | 1237479  | 9.099  | ppbv   | 98       |
| 67) sec-Butylbenzene          | 17.39 | 105  | 4584957  | 8.643  | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 17.74 | 119  | 3712039  | 8.746  | ppbv   | 99       |
| 70) n-Butylbenzene            | 18.65 | 91   | 4254253m | 8.810  | ppbv   |          |
| 71) 2-Chlorotoluene           | 15.55 | 91   | 3084591  | 8.834  | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 15.93 | 105  | 3250088  | 8.769  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 16.09 | 105  | 3142459  | 8.723  | ppbv   | 100      |
| 74) 1,2,4-Trimethylbenzene    | 16.86 | 105  | 3116131  | 8.401  | ppbv   | 96       |
| 75) 1,3-Dichlorobenzene       | 17.09 | 146  | 1685421  | 8.575  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.23 | 146  | 1744770  | 8.470  | ppbv   | 100      |
| 77) 1,2-Dichlorobenzene       | 17.91 | 146  | 1723835m | 8.567  | ppbv   |          |
| 78) Hexachloro-1,3-Butadiene  | 23.47 | 225  | 1121754  | 8.172  | ppbv   | 99       |
| 79) Naphthalene               | 22.32 | 128  | 2987772  | 8.910  | ppbv   | 98       |
| 80) Naphthalene, 2-methyl-    | 25.05 | 142  | 555823   | 4.775  | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 22.05 | 180  | 1506652  | 8.257  | ppbv   | 100      |

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





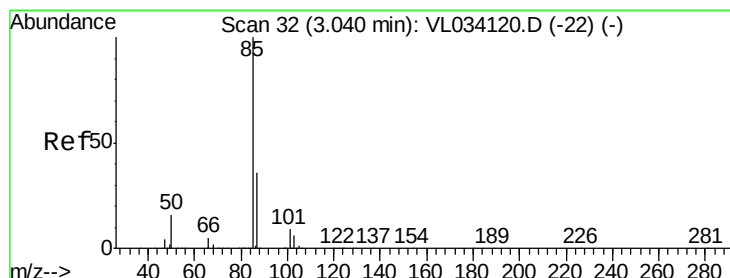
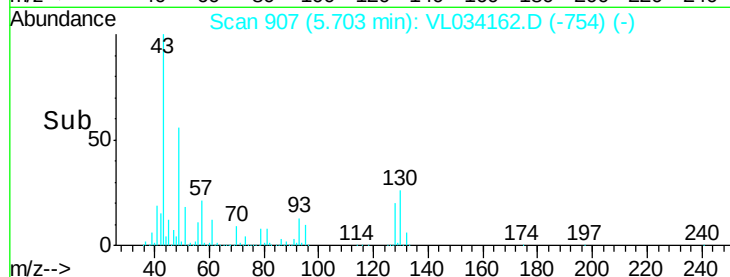
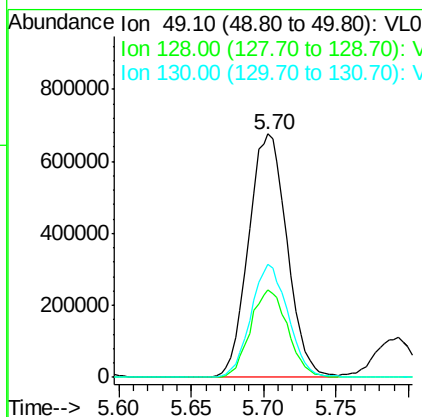
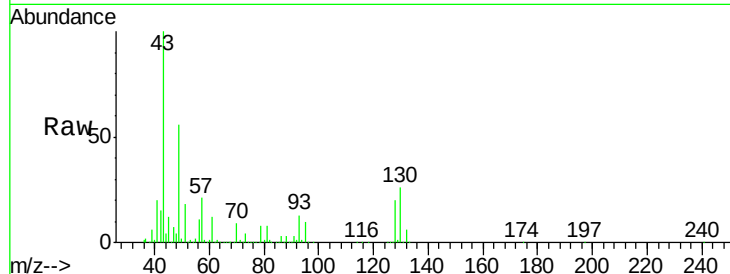
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Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.70 min Scan# 907  
Delta R.T. -0.01 min  
Lab File: VL034162.D  
Acq: 12 Sep 2019 17:49

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0912ABS01

Tot Ion: 49 Resp: 1252600  
Ion Ratio Lower Upper  
49 100  
128 35.0 18.4 55.0  
130 44.8 23.5 70.6

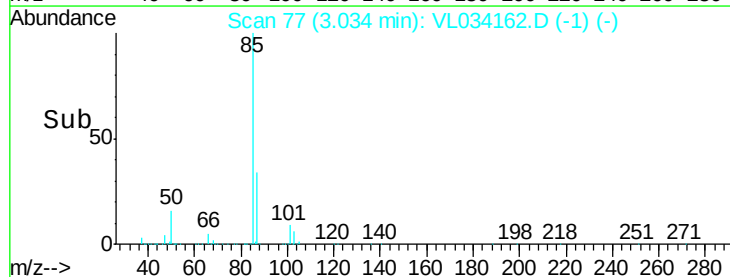
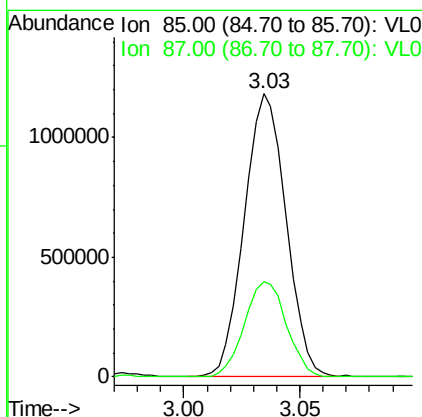
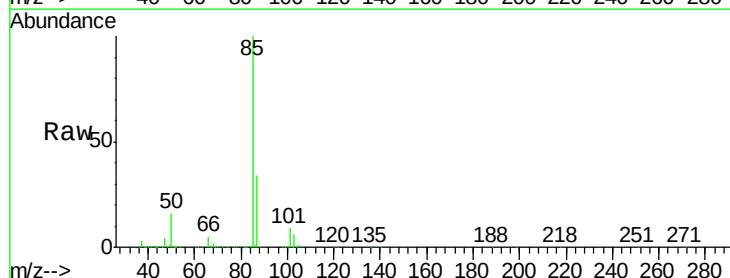
Manual Integrations  
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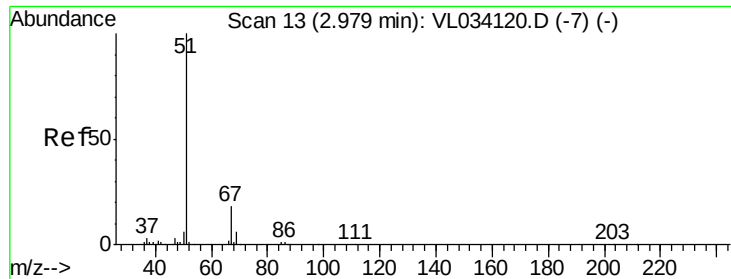
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9/14/2019 12:09:47 AM



#2  
Dichlorodifluoromethane  
Concen: 7.192 ppbv  
RT: 3.03 min Scan# 77  
Delta R.T. -0.01 min  
Lab File: VL034162.D  
Acq: 12 Sep 2019 17:49

Tgt Ion: 85 Resp: 1486022  
Ion Ratio Lower Upper  
85 100  
87 33.8 28.6 43.0





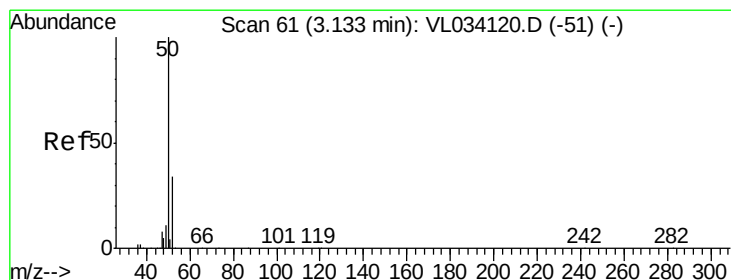
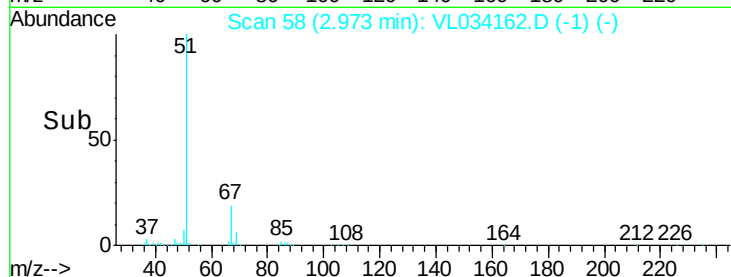
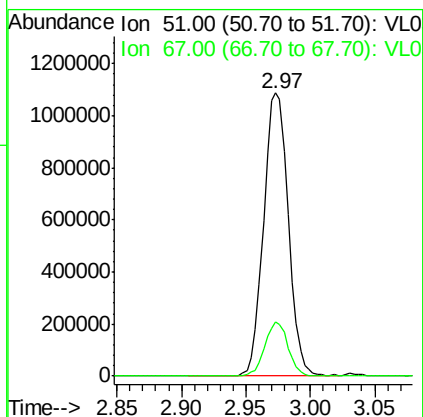
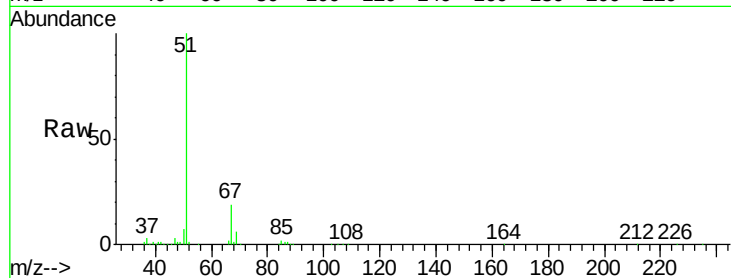
#3  
Chlorodifluoromethane  
Concen: 10.432 ppbv  
RT: 2.97 min Scan# 58  
Delta R.T. -0.01 min  
Lab File: VL034162.D  
Acq: 12 Sep 2019 17:49

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0912ABS01

Tot Ion: 51 Resp: 1456608  
Ion Ratio Lower Upper  
51 100  
67 18.1 14.2 21.4

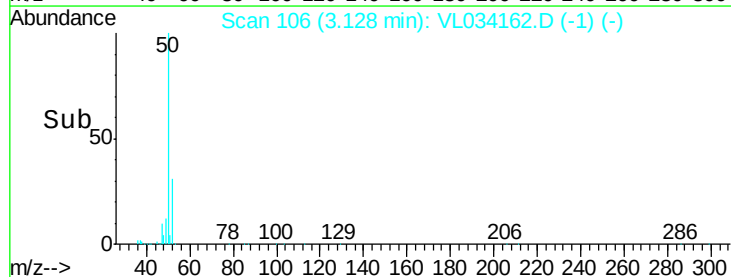
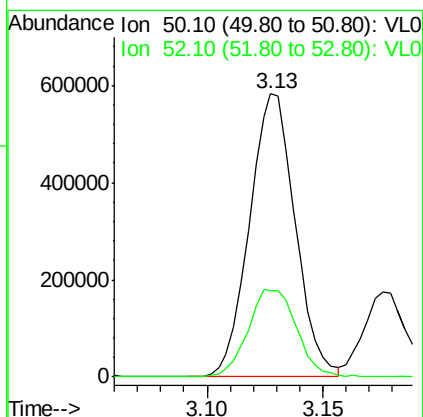
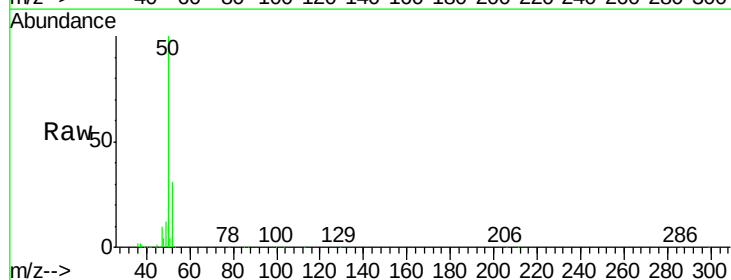
Manual Integrations  
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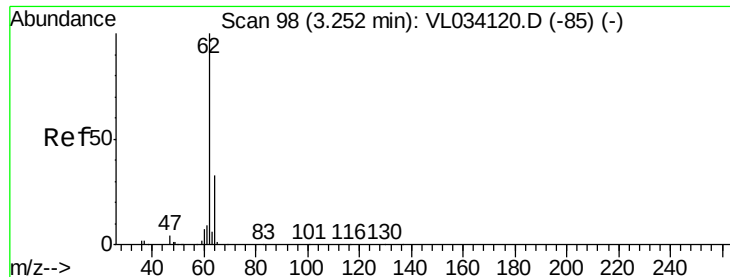
MMDadoda  
9/14/2019 12:09:47 AM



#4  
Chloromethane  
Concen: 9.171 ppbv  
RT: 3.13 min Scan# 106  
Delta R.T. -0.01 min  
Lab File: VL034162.D  
Acq: 12 Sep 2019 17:49

Tgt Ion: 50 Resp: 800548  
Ion Ratio Lower Upper  
50 100  
52 30.6 27.4 41.2





#5

Vinyl Chloride

Concen: 9.108 ppbv

RT: 3.25 min Scan# 143

Delta R.T. -0.01 min

Lab File: VL034162.D

Acq: 12 Sep 2019 17:49

Instrument :

MSVOA\_L

ClientSampleId :

VL0912ABS01

Tot Ion: 62 Resp: 724217

Ion Ratio Lower Upper

62 100

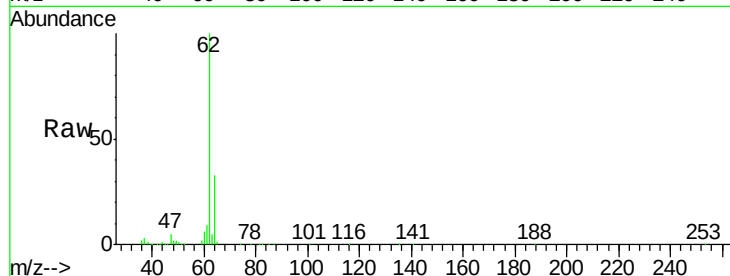
64 32.6 26.6 39.8

Manual Integrations

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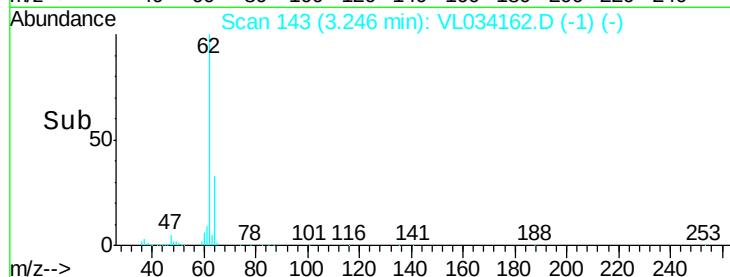
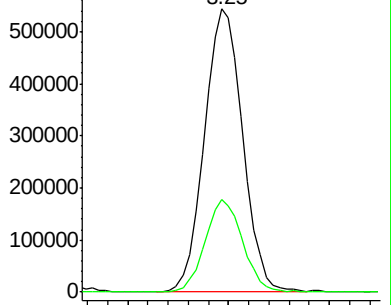
MMDadoda

9/14/2019 12:09:47 AM

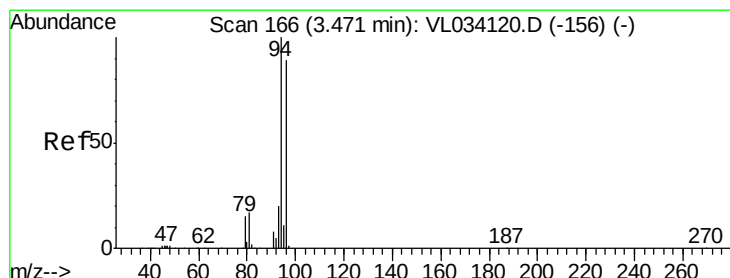


Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



Time-->



#6

Bromomethane

Concen: 9.258 ppbv

RT: 3.47 min Scan# 211

Delta R.T. -0.01 min

Lab File: VL034162.D

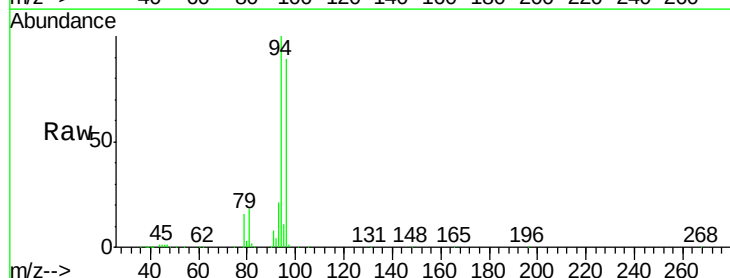
Acq: 12 Sep 2019 17:49

Tgt Ion: 94 Resp: 363293

Ion Ratio Lower Upper

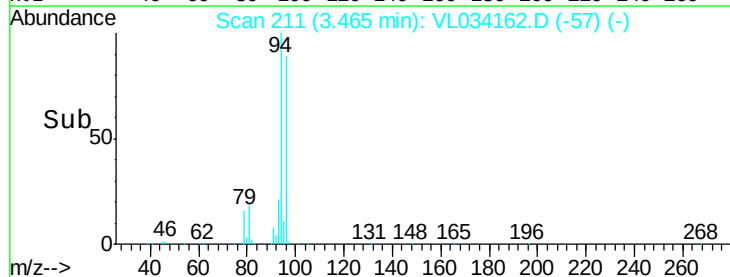
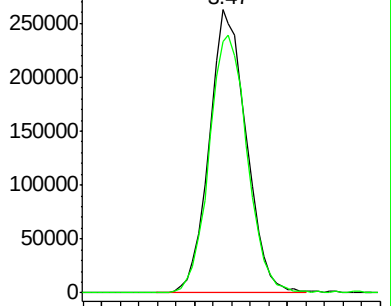
94 100

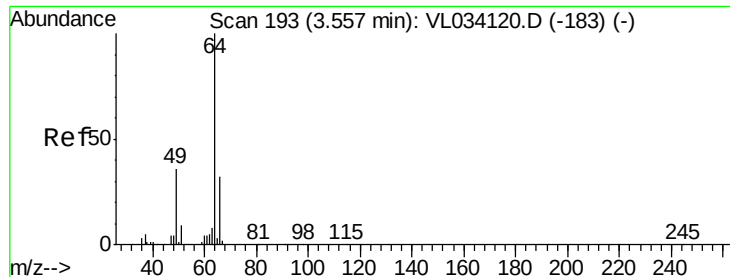
96 88.7 71.4 107.0



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.534 ppbv

RT: 3.55 min Scan# 238

Delta R.T. -0.01 min

Lab File: VL034162.D

Acq: 12 Sep 2019 17:49

Instrument :

MSVOA\_L

ClientSampleId :

VL0912ABS01

Tot Ion: 64 Resp: 258281

Ion Ratio Lower Upper

64 100

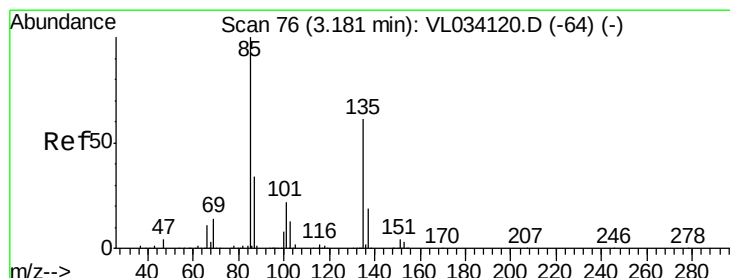
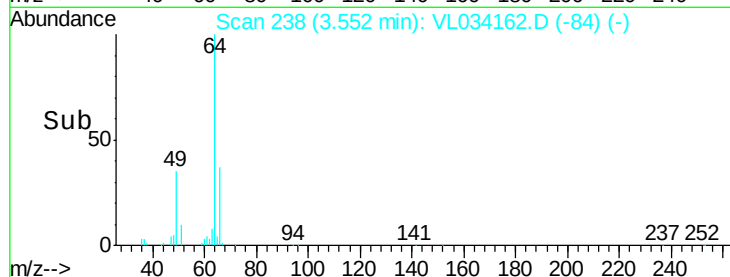
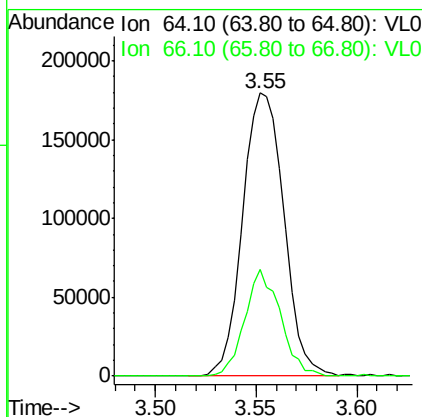
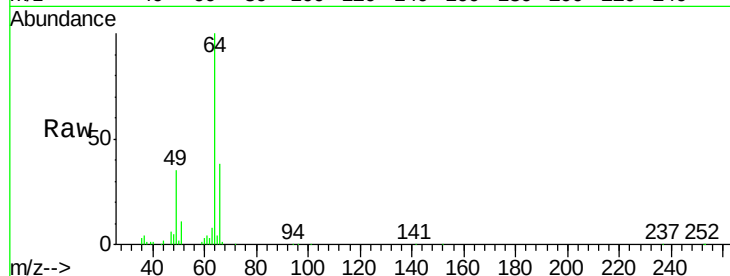
66 37.7 25.4 38.2

Manual Integrations

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9/14/2019 12:09:47 AM



#8

Dichlorotetrafluoroethane

Concen: 8.947 ppbv

RT: 3.18 min Scan# 121

Delta R.T. -0.01 min

Lab File: VL034162.D

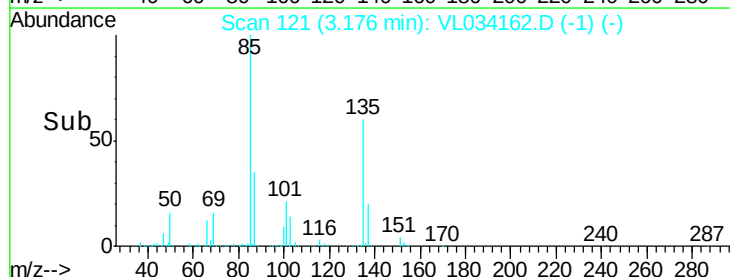
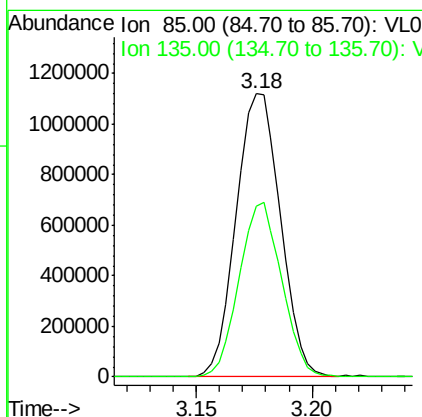
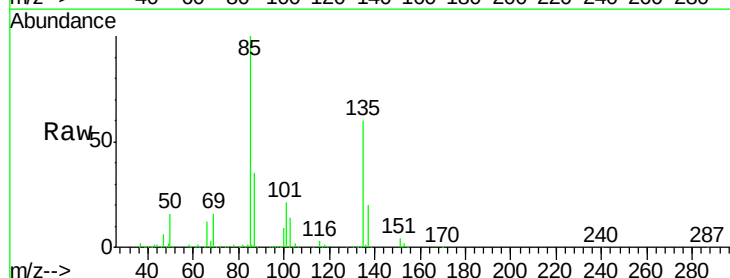
Acq: 12 Sep 2019 17:49

Tgt Ion: 85 Resp: 1487861

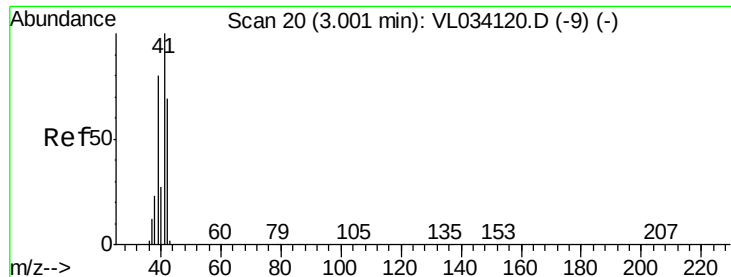
Ion Ratio Lower Upper

85 100

135 59.4 48.0 72.0







#9

Propene

Concen: 8.961 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.01 min

Lab File: VL034162.D

Acq: 12 Sep 2019 17:49

Instrument :

MSVOA\_L

ClientSampleId :

VL0912ABS01

Tot Ion: 41 Resp: 700074

Ion Ratio Lower Upper

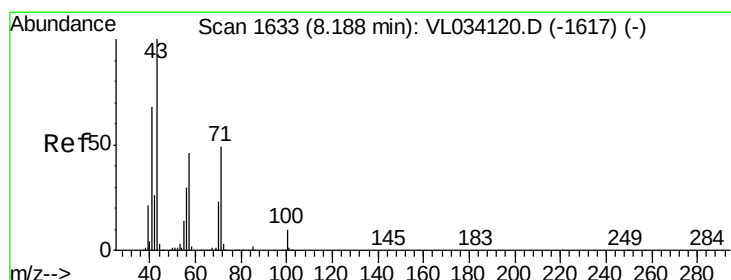
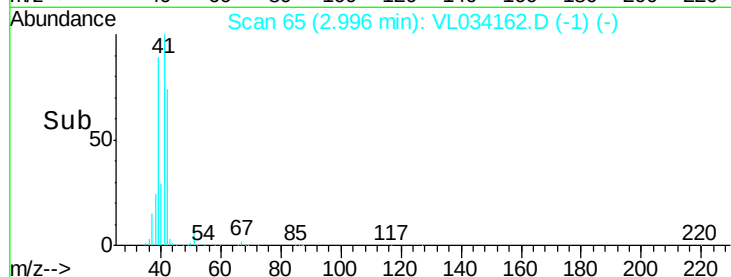
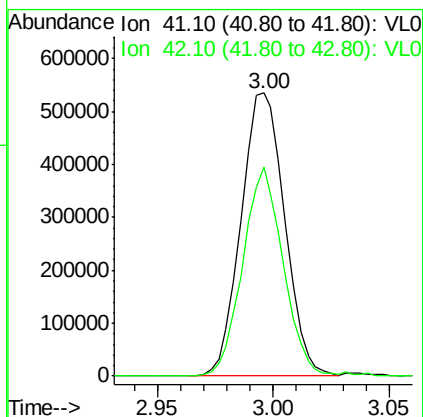
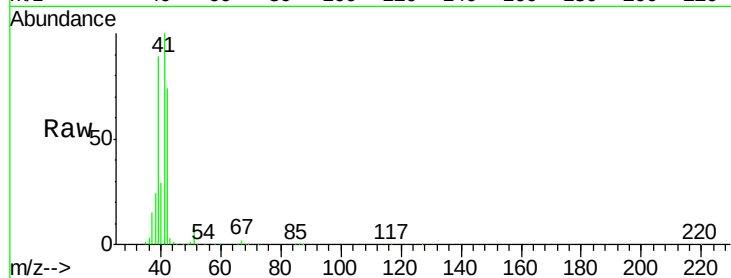
41 100

42 69.0 54.6 81.8

Manual Integrations  
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#10

Heptane

Concen: 9.131 ppbv

RT: 8.18 min Scan# 1678

Delta R.T. -0.01 min

Lab File: VL034162.D

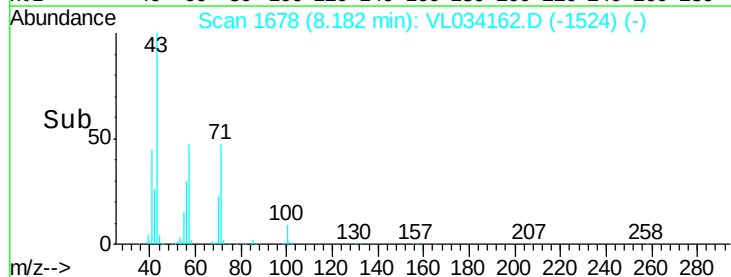
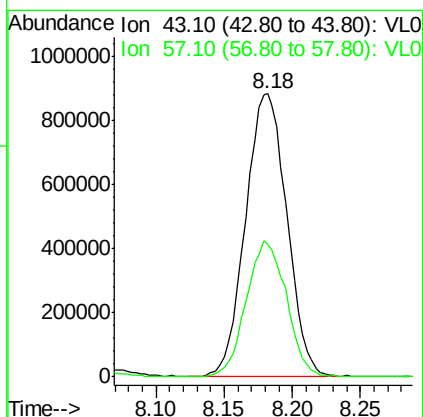
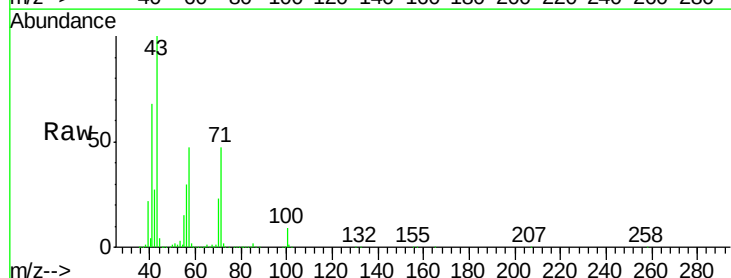
Acq: 12 Sep 2019 17:49

Tgt Ion: 43 Resp: 1851229

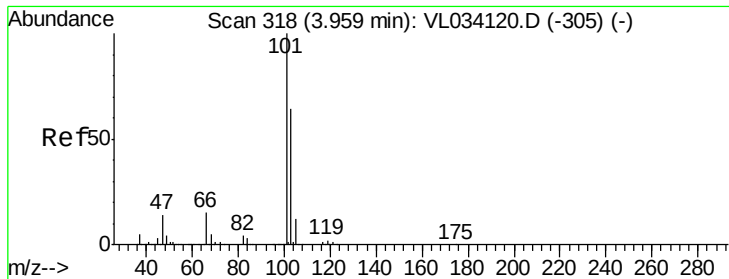
Ion Ratio Lower Upper

43 100

57 46.9 38.1 57.1







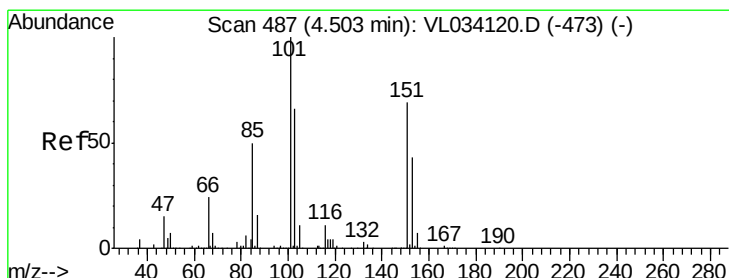
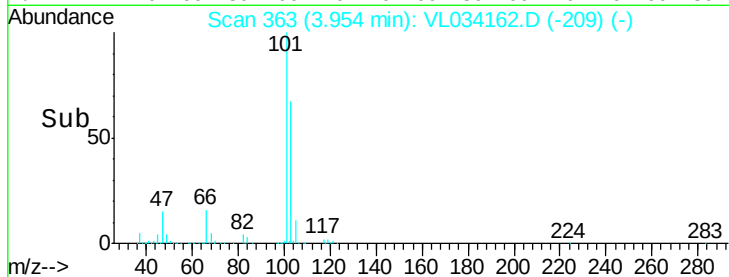
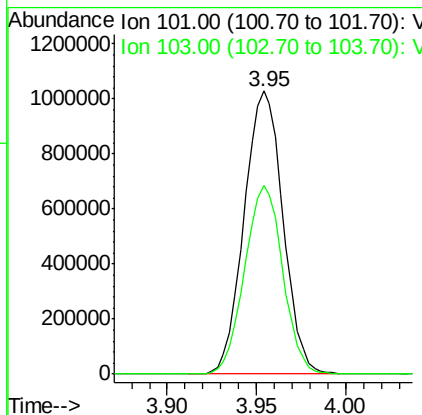
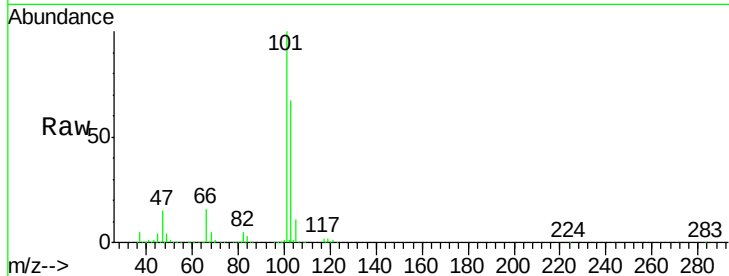
#11  
 Trichlorofluoromethane  
 Concen: 9.265 ppbv  
 RT: 3.95 min Scan# 363  
 Delta R.T. -0.01 min  
 Lab File: VL034162.D  
 Acq: 12 Sep 2019 17:49

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0912ABS01

Tot Ion:101 Resp: 1561025  
 Ion Ratio Lower Upper  
 101 100  
 103 66.5 51.4 77.2

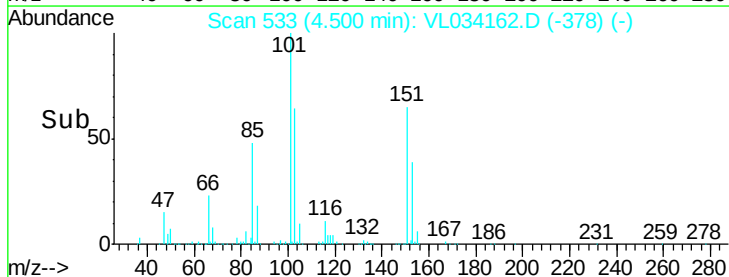
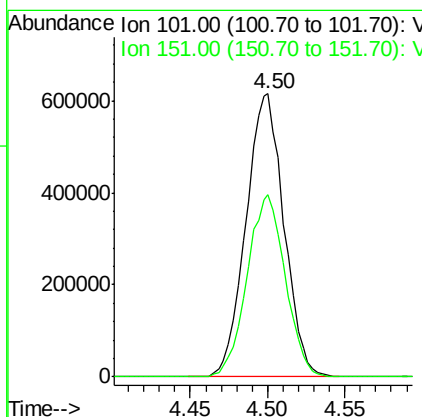
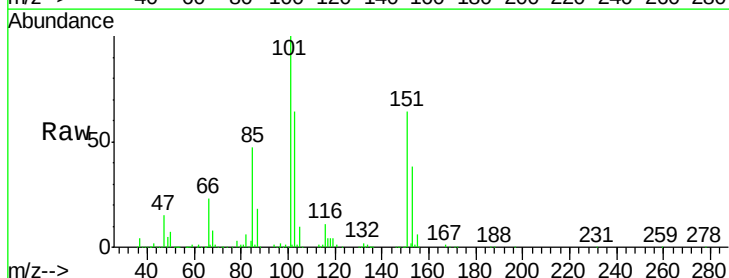
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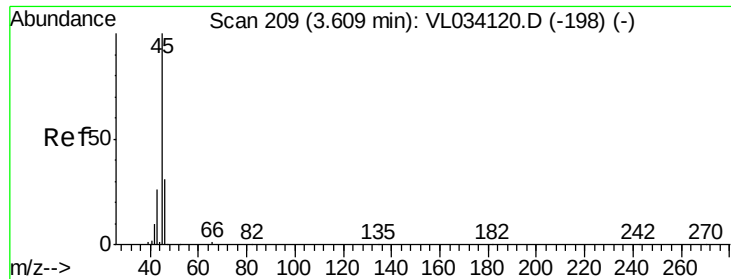
MMDadoda  
 9/14/2019 12:09:47 AM



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 9.316 ppbv  
 RT: 4.50 min Scan# 533  
 Delta R.T. -0.00 min  
 Lab File: VL034162.D  
 Acq: 12 Sep 2019 17:49

Tgt Ion:101 Resp: 1050159  
 Ion Ratio Lower Upper  
 101 100  
 151 64.6 53.0 79.6





#13

Ethanol

Concen: 11.321 ppbv

RT: 3.60 min Scan# 254

Delta R.T. -0.01 min

Lab File: VL034162.D

Acq: 12 Sep 2019 17:49

Instrument :

MSVOA\_L

ClientSampleId :

VL0912ABS01

Tot Ion: 45 Resp: 173252

Ion Ratio Lower Upper

45 100

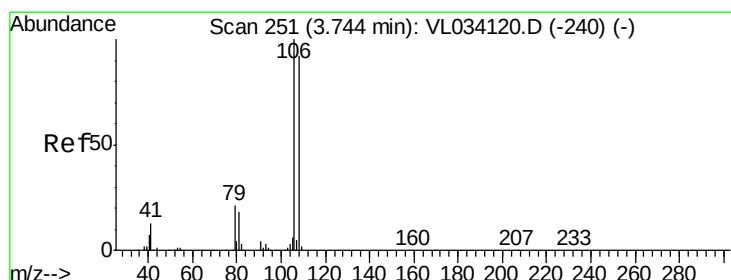
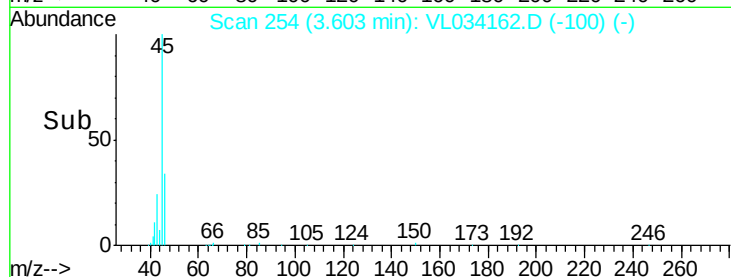
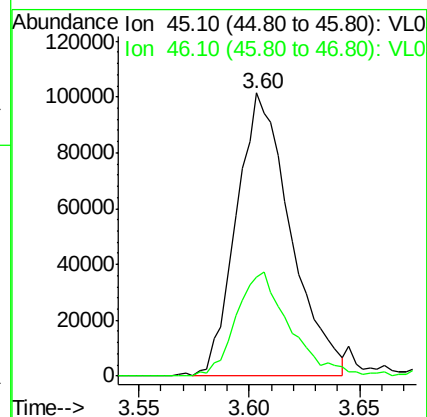
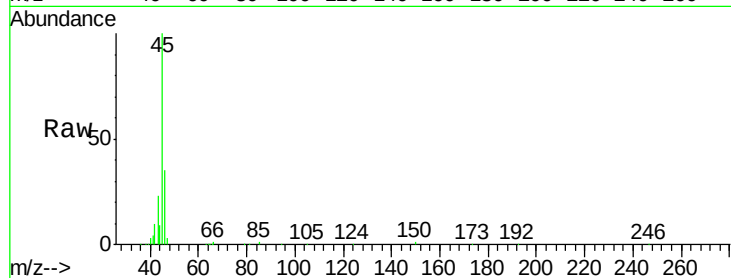
46 36.4 15.0 60.0

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#14

Bromoethene

Concen: 8.903 ppbv

RT: 3.74 min Scan# 296

Delta R.T. -0.01 min

Lab File: VL034162.D

Acq: 12 Sep 2019 17:49

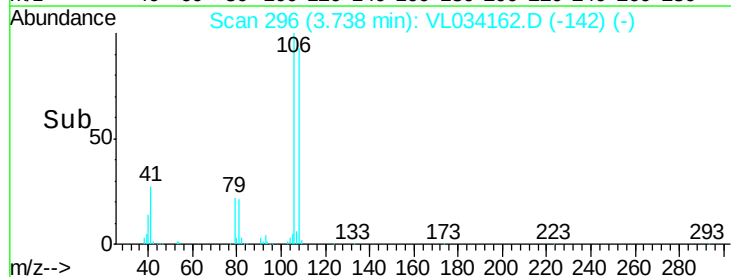
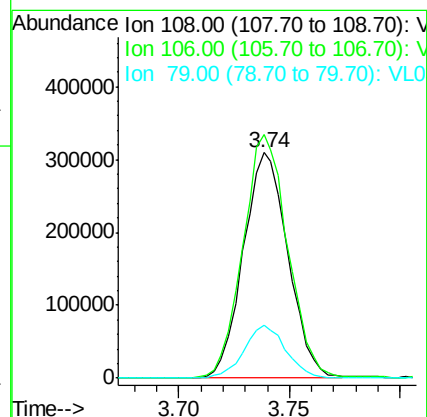
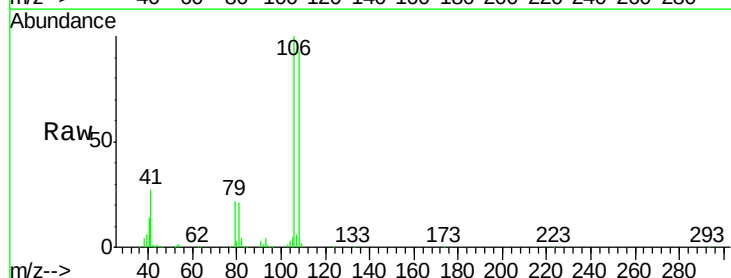
Tgt Ion: 108 Resp: 434490

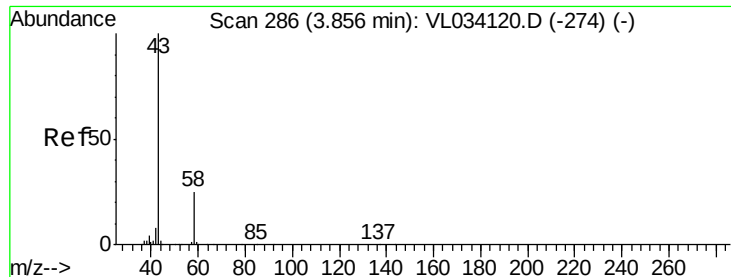
Ion Ratio Lower Upper

108 100

106 109.4 87.2 130.8

79 22.3 16.5 24.7





#15

Acetone

Concen: 8.791 ppbv

RT: 3.85 min Scan# 331

Delta R.T. -0.01 min

Lab File: VL034162.D

Acq: 12 Sep 2019 17:49

Tot Ion: 43 Resp: 1327113

Ion Ratio Lower Upper

43 100

58 25.3 20.6 30.8

Instrument :

MSVOA\_L

ClientSampleId :

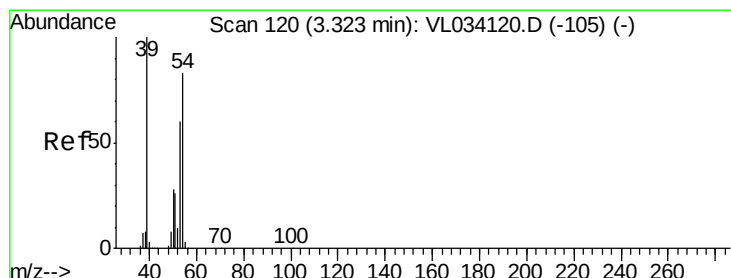
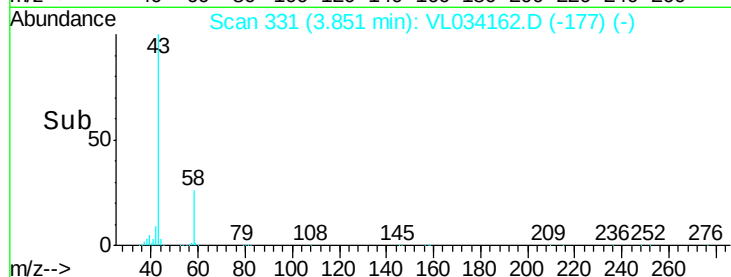
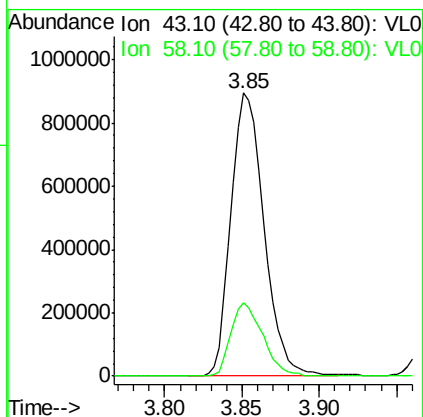
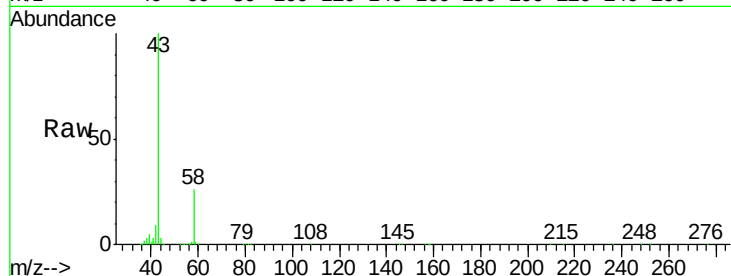
VL0912ABS01

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#16

1,3-Butadiene

Concen: 9.406 ppbv

RT: 3.32 min Scan# 166

Delta R.T. -0.00 min

Lab File: VL034162.D

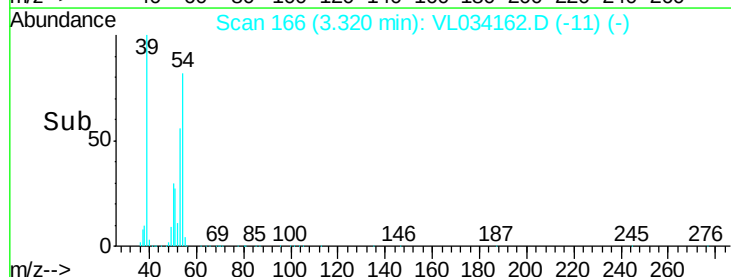
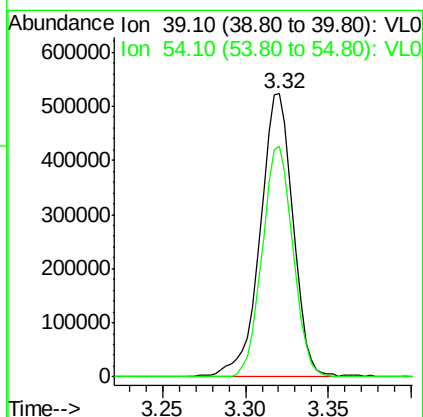
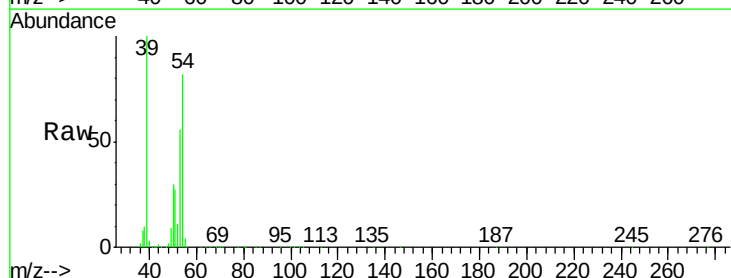
Acq: 12 Sep 2019 17:49

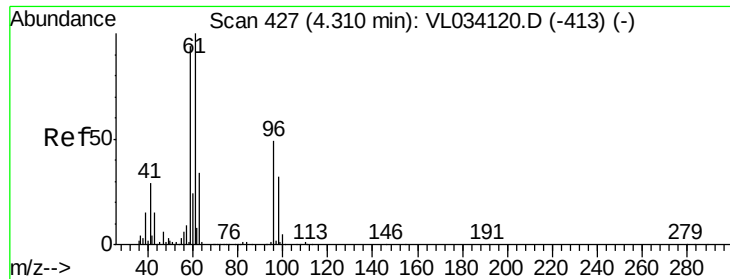
Tgt Ion: 39 Resp: 719091

Ion Ratio Lower Upper

39 100

54 77.1 63.5 95.3





#17

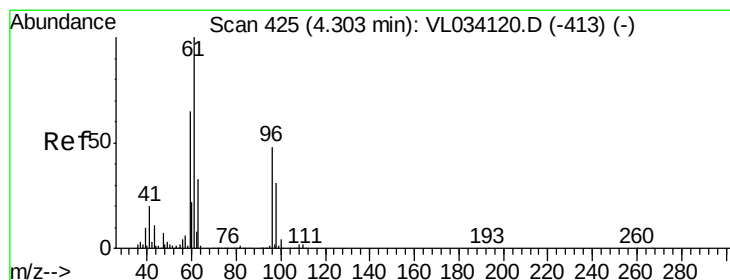
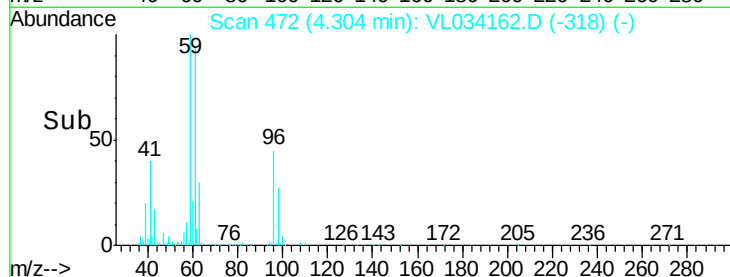
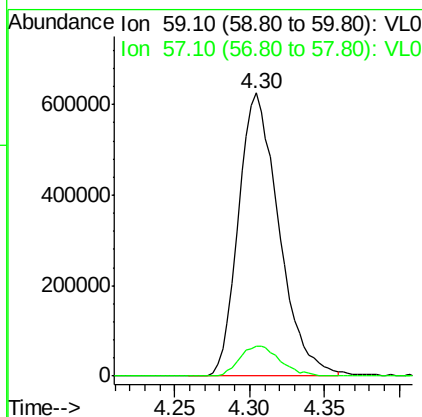
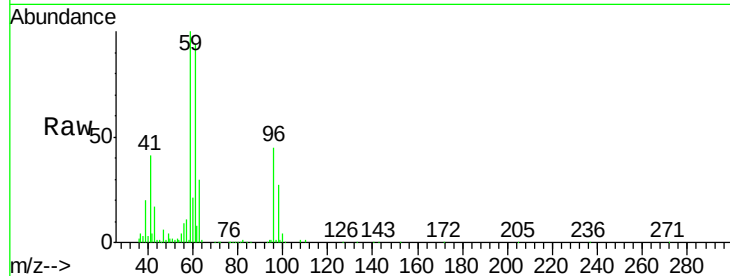
tert-Butyl alcohol  
Concen: 10.751 ppbv  
RT: 4.30 min Scan# 472  
Delta R.T. -0.01 min  
Lab File: VL034162.D  
Acq: 12 Sep 2019 17:49

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0912ABS01

Tot Ion: 59 Resp: 1178269  
Ion Ratio Lower Upper  
59 100  
57 11.0 8.6 12.8

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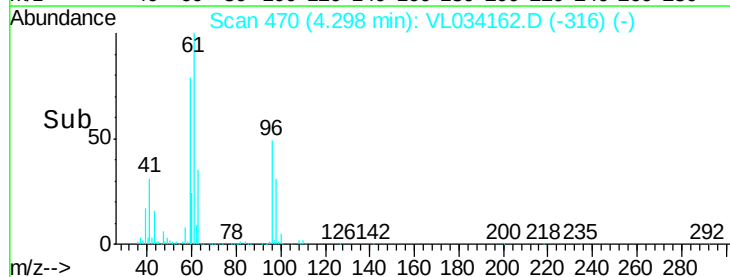
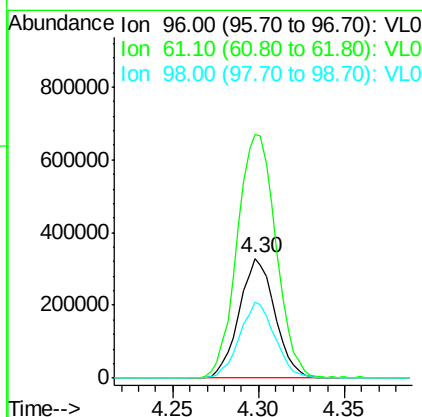
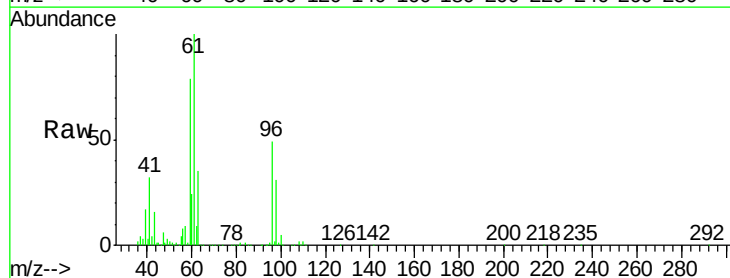
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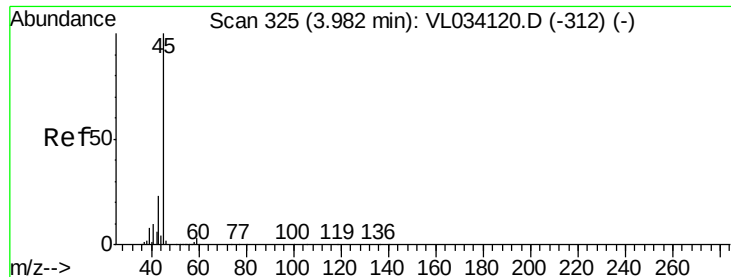


#18

1,1-Dichloroethene  
Concen: 9.229 ppbv  
RT: 4.30 min Scan# 470  
Delta R.T. -0.01 min  
Lab File: VL034162.D  
Acq: 12 Sep 2019 17:49

Tgt Ion: 96 Resp: 475293  
Ion Ratio Lower Upper  
96 100  
61 203.4 165.8 248.8  
98 63.2 50.8 76.2





#19

Isopropyl Alcohol

Concen: 10.806 ppbv

RT: 3.97 min Scan# 369

Delta R.T. -0.01 min

Lab File: VL034162.D

Acq: 12 Sep 2019 17:49

Tot Ion: 45 Resp: 1101088

Ion Ratio Lower Upper

45 100

58 1.2 1.0 1.6

Instrument :

MSVOA\_L

ClientSampleId :

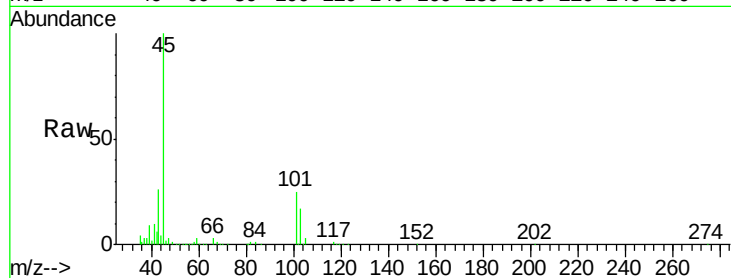
VL0912ABS01

Manual Integrations

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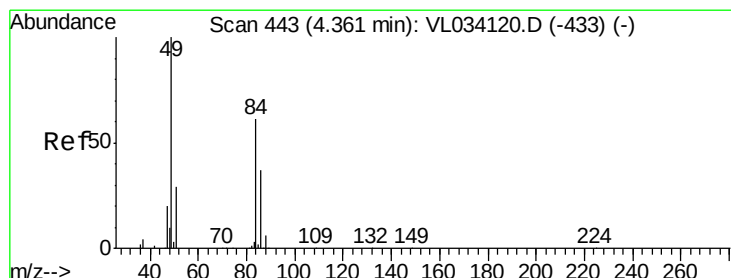
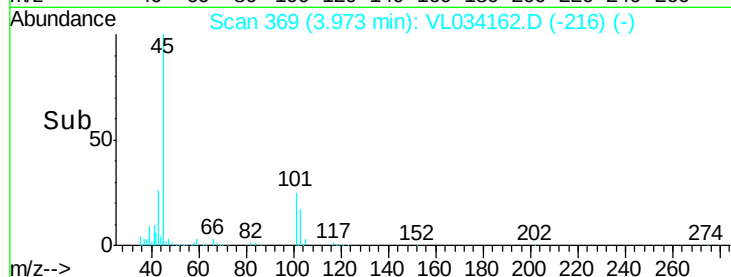
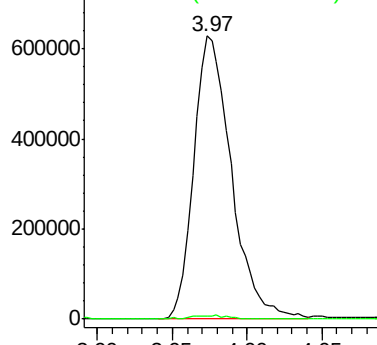
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 8.663 ppbv

RT: 4.35 min Scan# 487

Delta R.T. -0.01 min

Lab File: VL034162.D

Acq: 12 Sep 2019 17:49

Tgt Ion: 84 Resp: 432389

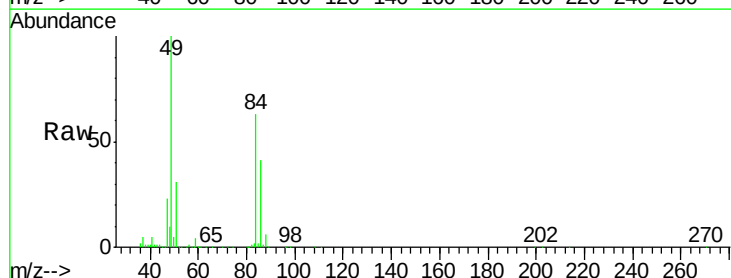
Ion Ratio Lower Upper

84 100

49 157.3 131.0 196.6

51 48.5 38.1 57.1

86 64.1 49.0 73.6

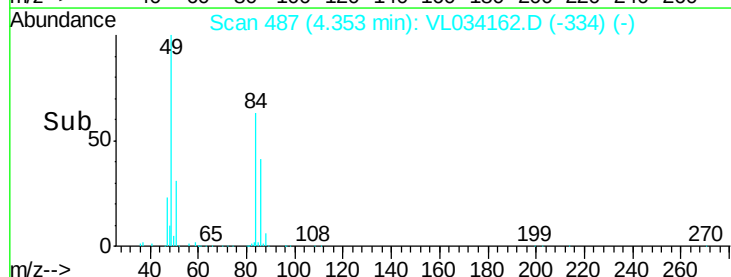
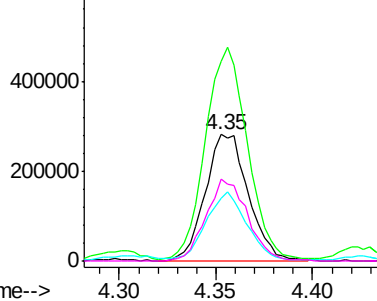


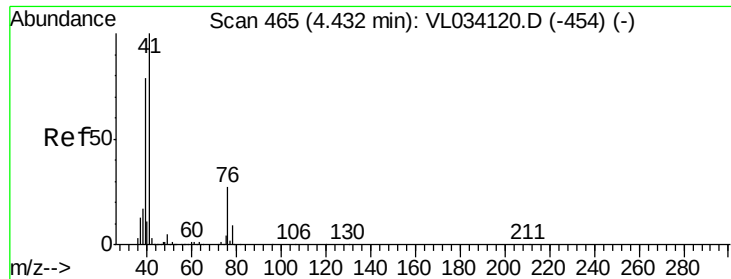
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





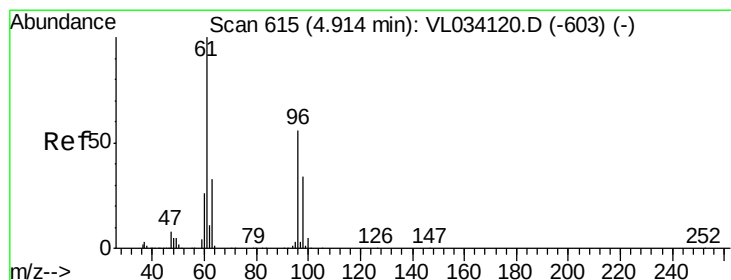
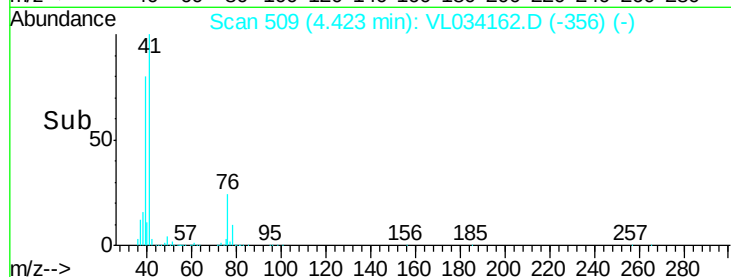
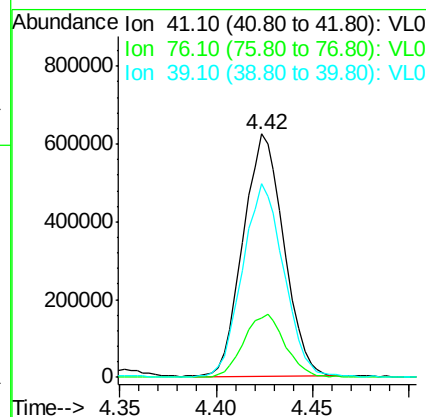
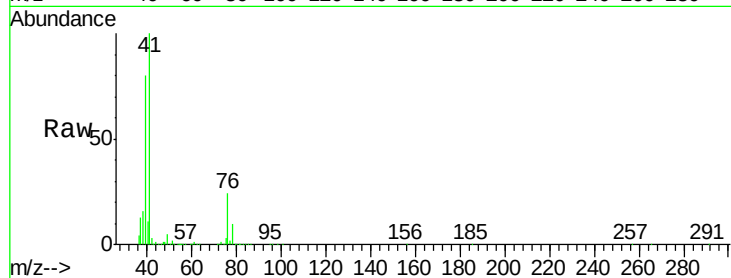
#21  
Allvl Chloride  
Concen: 9.167 ppbv  
RT: 4.42 min Scan# 509  
Delta R.T. -0.01 min  
Lab File: VL034162.D  
Acq: 12 Sep 2019 17:49

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0912ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 76      | 26.5  | 21.6  | 32.4  |
| 39      | 81.0  | 65.0  | 97.4  |

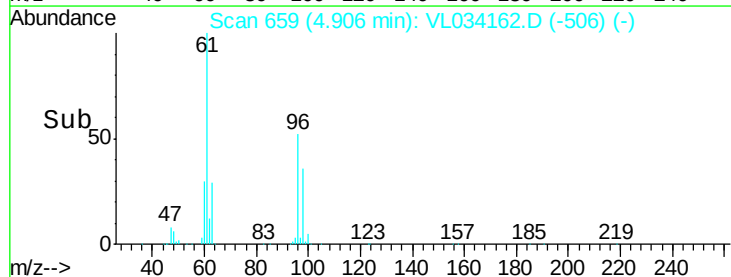
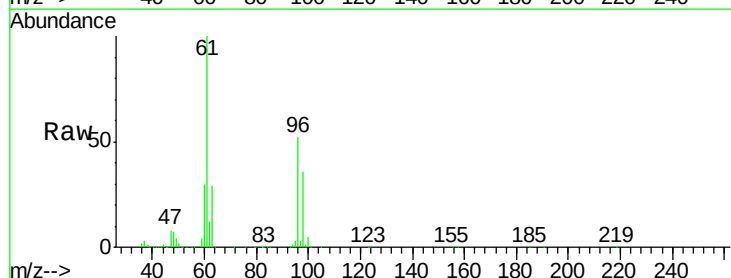
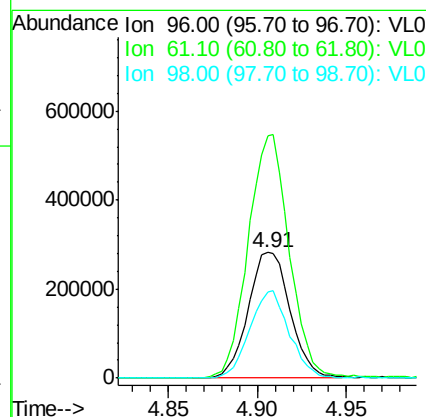
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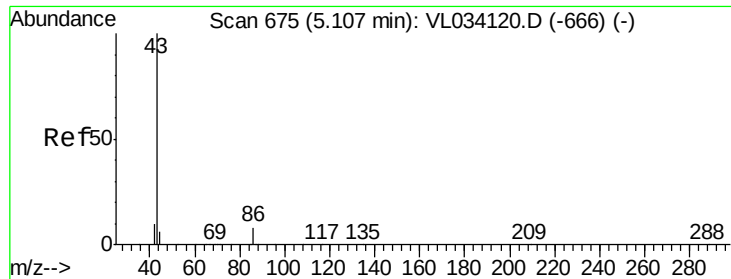
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#22  
trans-1,2-Dichloroethene  
Concen: 9.010 ppbv  
RT: 4.91 min Scan# 659  
Delta R.T. -0.01 min  
Lab File: VL034162.D  
Acq: 12 Sep 2019 17:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 192.7 | 143.1 | 214.7 |
| 98      | 69.0  | 49.0  | 73.4  |





#23

Vinyl Acetate

Concen: 9.305 ppbv

RT: 5.10 min Scan# 719

Delta R.T. -0.01 min

Lab File: VL034162.D

Acq: 12 Sep 2019 17:49

Instrument :

MSVOA\_L

ClientSampleId :

VL0912ABS01

Tot Ion: 43 Resp: 2383101

Ion Ratio Lower Upper

43 100

86 6.3 5.5 8.3

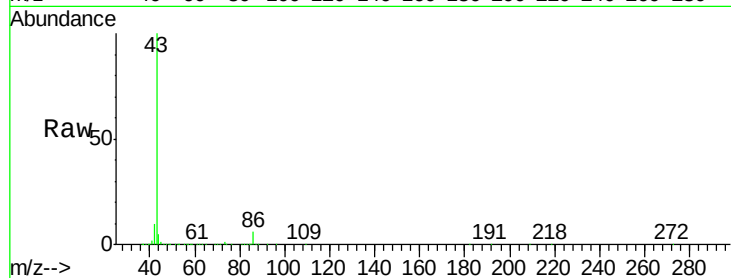
42 10.4 8.2 12.4

44 5.3 4.3 6.5

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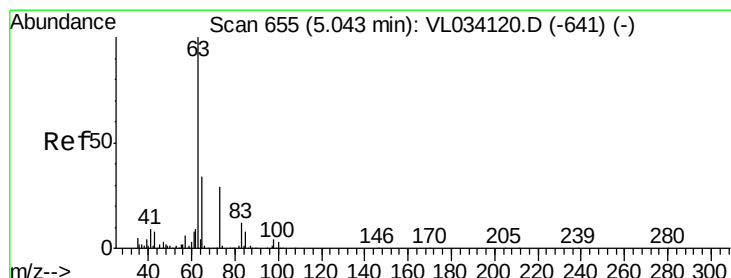
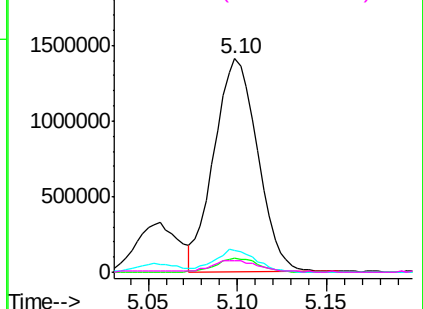
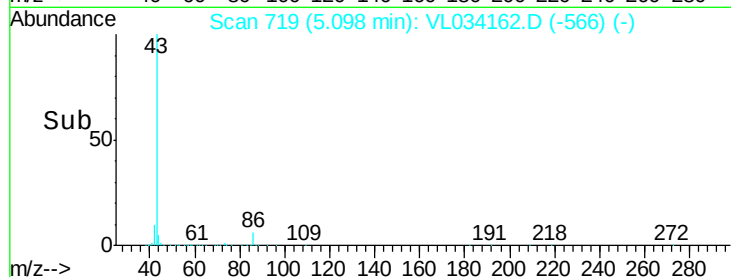


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.170 ppbv

RT: 5.03 min Scan# 699

Delta R.T. -0.01 min

Lab File: VL034162.D

Acq: 12 Sep 2019 17:49

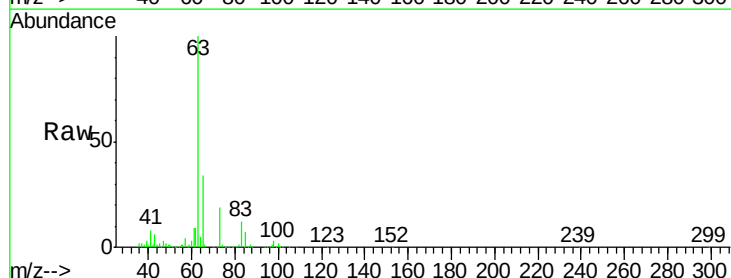
Tgt Ion: 63 Resp: 1558779

Ion Ratio Lower Upper

63 100

98 3.4 2.1 6.2

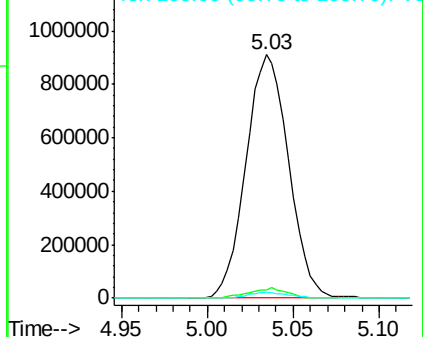
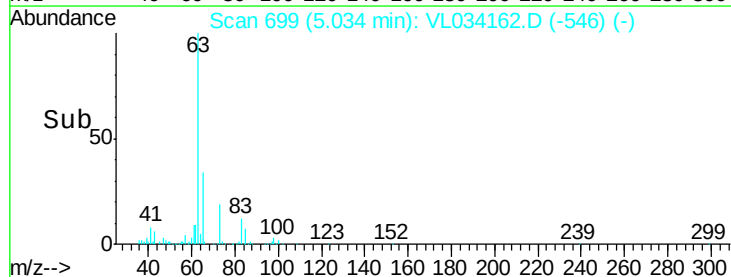
100 2.2 1.4 4.0



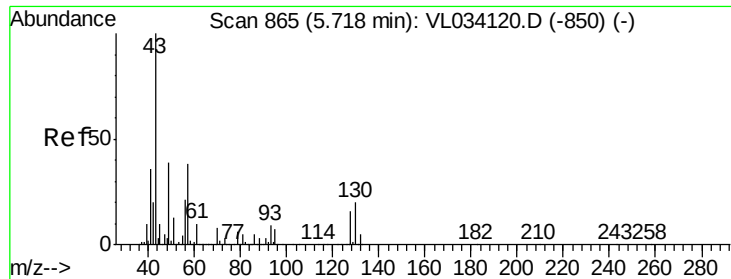
Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0







#25

Ethyl Acetate

Concen: 8.477 ppbv

RT: 5.71 min Scan# 909

Delta R.T. -0.01 min

Lab File: VL034162.D

Acq: 12 Sep 2019 17:49

Tot Ion: 43 Resp: 2809155

Ion Ratio Lower Upper

43 100

45 10.2 8.2 12.4

61 9.1 7.4 11.2

70 6.9 5.6 8.4

Instrument :

MSVOA\_L

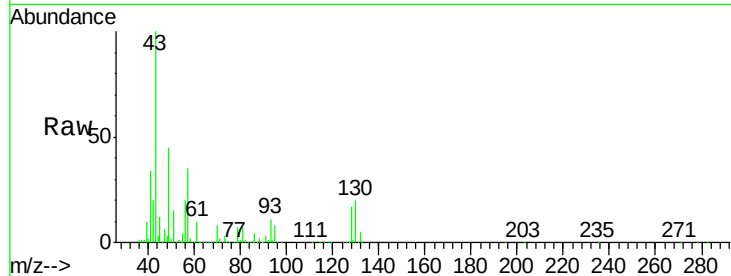
ClientSampleId :

VL0912ABS01

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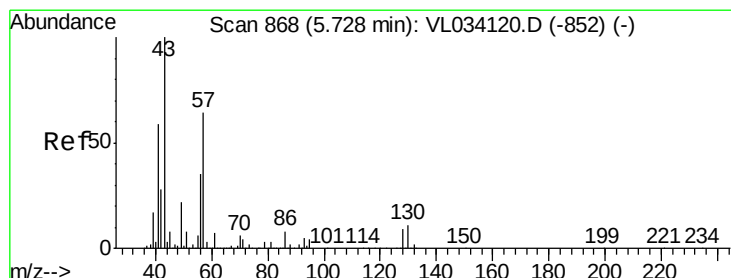
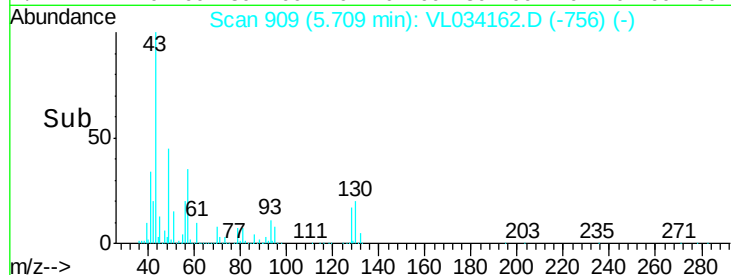
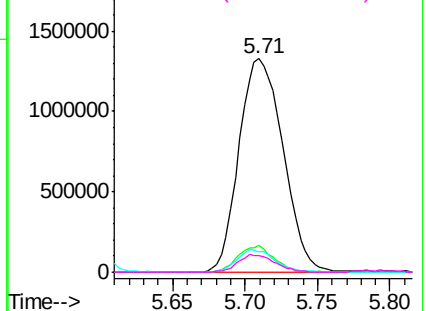


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 8.474 ppbv

RT: 5.72 min Scan# 913

Delta R.T. -0.01 min

Lab File: VL034162.D

Acq: 12 Sep 2019 17:49

Tgt Ion: 57 Resp: 1248521

Ion Ratio Lower Upper

57 100

41 95.9 76.6 115.0

43 227.3 189.2 283.8

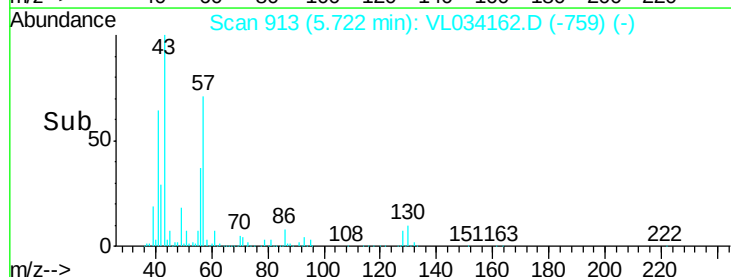
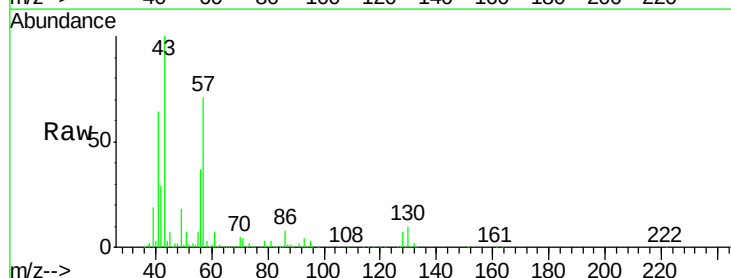
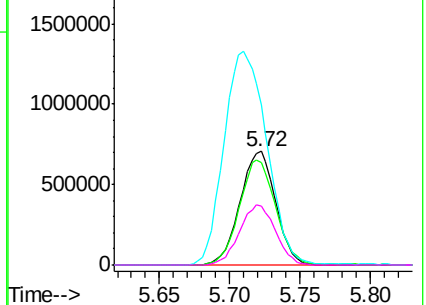
56 53.6 43.0 64.4

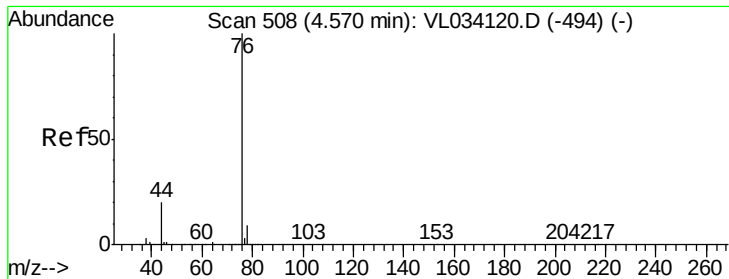
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 9.309 ppbv

RT: 4.56 min Scan# 553

Delta R.T. -0.01 min

Lab File: VL034162.D

Acq: 12 Sep 2019 17:49

Instrument :

MSVOA\_L

ClientSampleId :

VL0912ABS01

Tot Ion: 76 Resp: 1237783

Ion Ratio Lower Upper

76 100

44 21.9 17.6 26.4

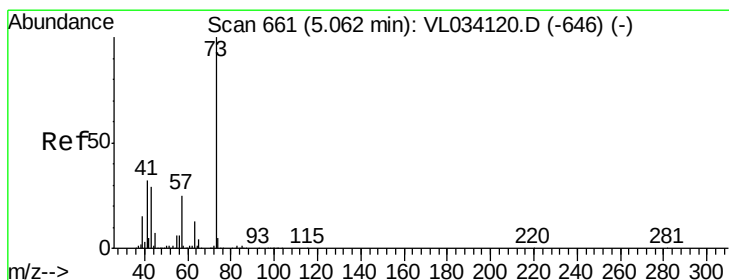
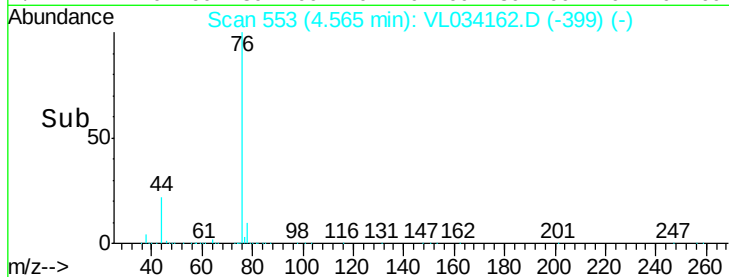
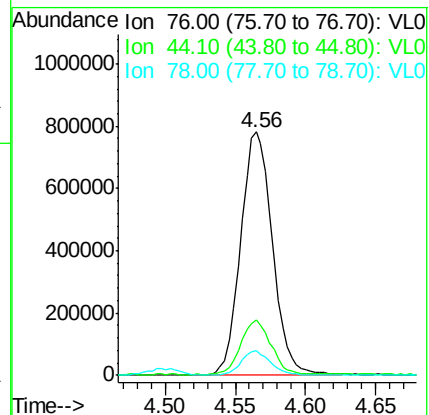
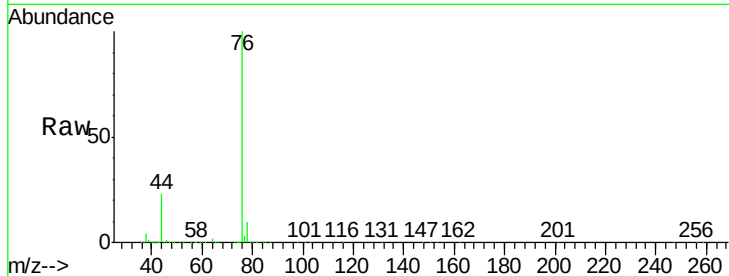
78 9.5 7.3 10.9

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#28

Methyl tert-Butyl Ether

Concen: 8.955 ppbv

RT: 5.05 min Scan# 705

Delta R.T. -0.01 min

Lab File: VL034162.D

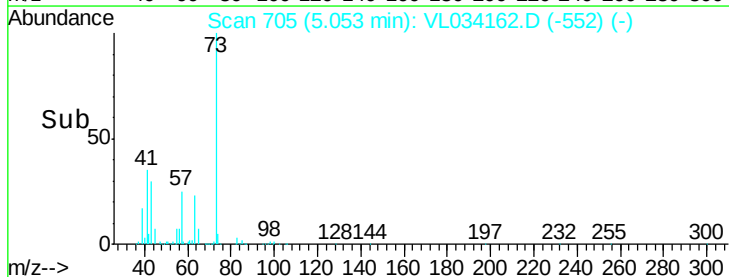
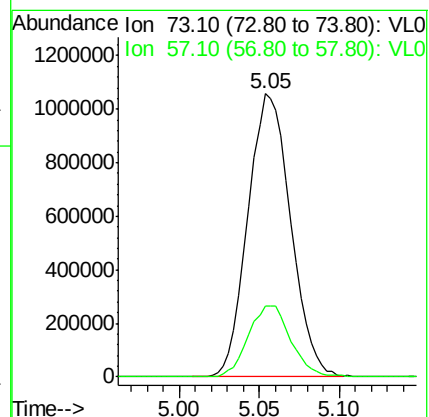
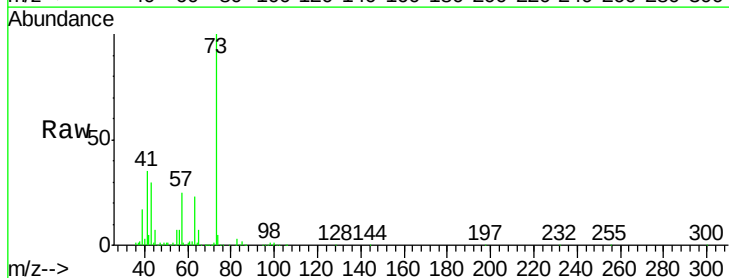
Acq: 12 Sep 2019 17:49

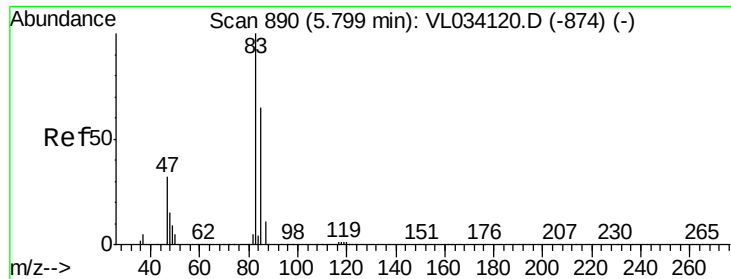
Tgt Ion: 73 Resp: 1933190

Ion Ratio Lower Upper

73 100

57 25.2 19.8 29.8





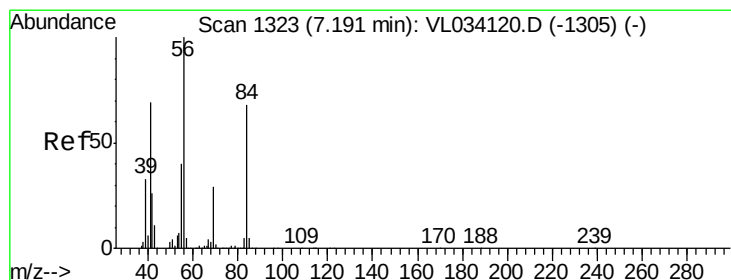
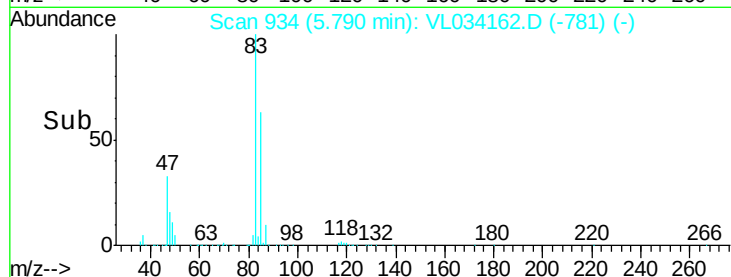
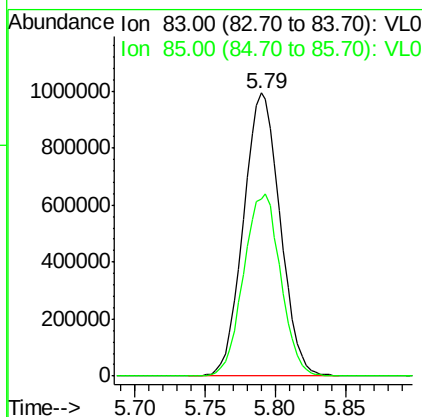
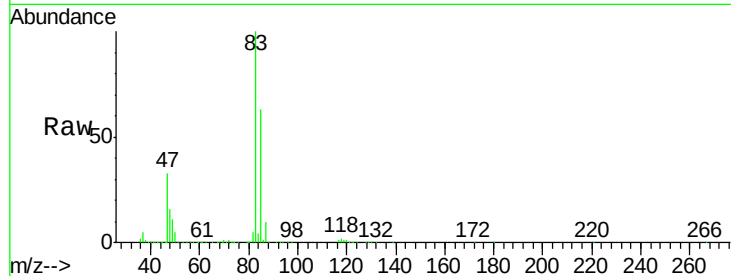
#29  
Chloroform  
Concen: 9.110 ppbv  
RT: 5.79 min Scan# 934  
Delta R.T. -0.01 min  
Lab File: VL034162.D  
Acq: 12 Sep 2019 17:49

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0912ABS01

Tot Ion: 83 Resp: 1810321  
Ion Ratio Lower Upper  
83 100  
85 62.6 51.8 77.6

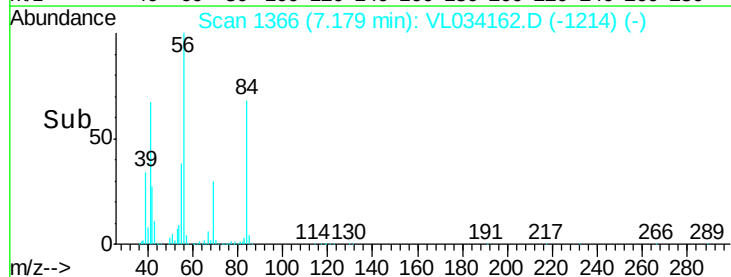
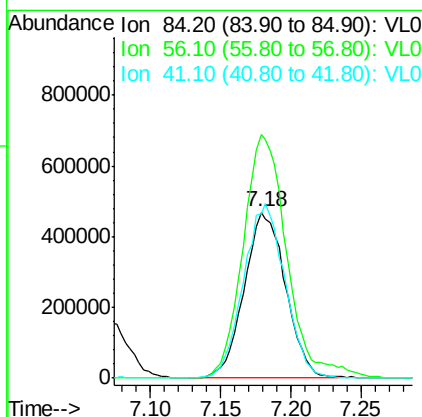
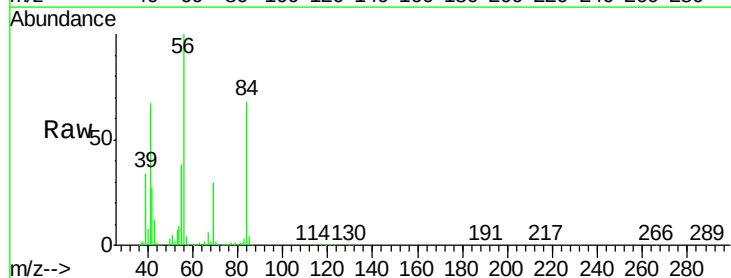
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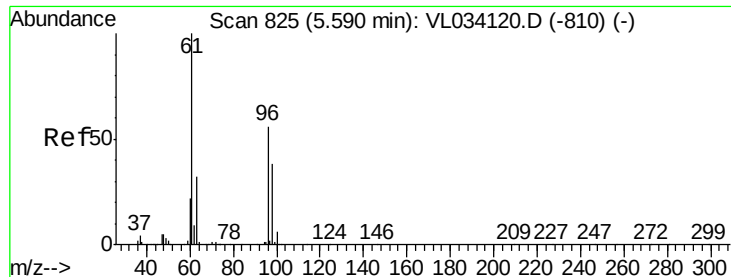
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#30  
Cyclohexane  
Concen: 9.040 ppbv  
RT: 7.18 min Scan# 1366  
Delta R.T. -0.01 min  
Lab File: VL034162.D  
Acq: 12 Sep 2019 17:49

Tgt Ion: 84 Resp: 962883  
Ion Ratio Lower Upper  
84 100  
56 156.3 122.6 183.8  
41 105.8 79.1 118.7





#31

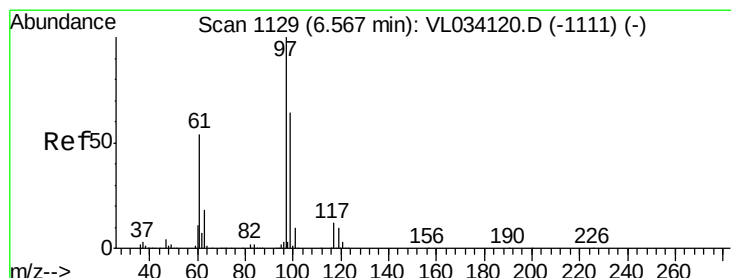
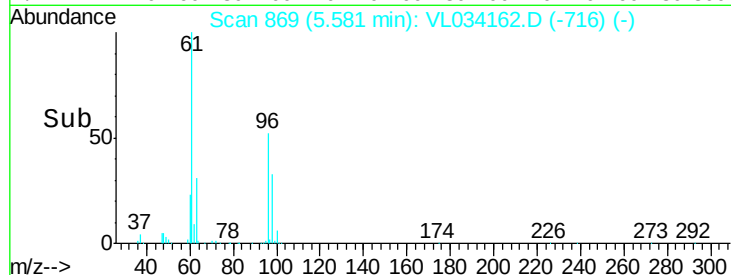
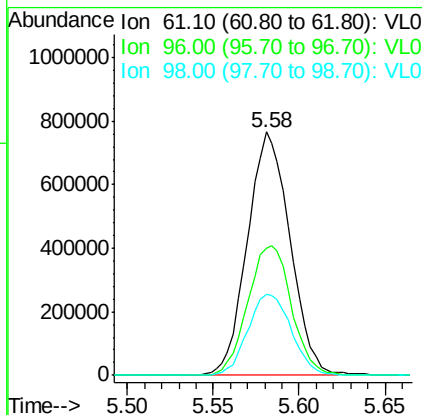
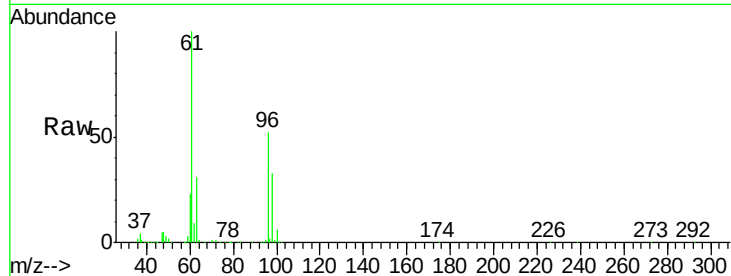
cis-1,2-Dichloroethene  
 Concen: 9.310 ppbv  
 RT: 5.58 min Scan# 869  
 Delta R.T. -0.01 min  
 Lab File: VL034162.D  
 Acq: 12 Sep 2019 17:49

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0912ABS01

| Tot Ion | 61    | Resp  | 1313541 |
|---------|-------|-------|---------|
| Ion     | Ratio | Lower | Upper   |
| 61      | 100   |       |         |
| 96      | 52.4  | 44.4  | 66.6    |
| 98      | 33.2  | 30.0  | 45.0    |

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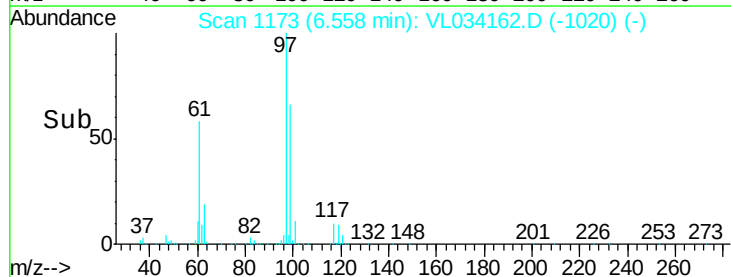
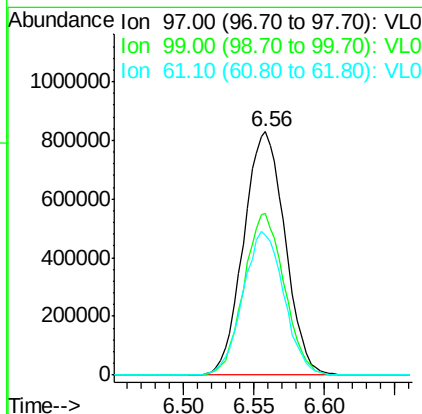
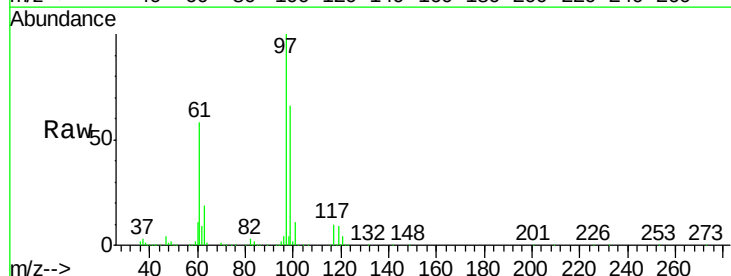
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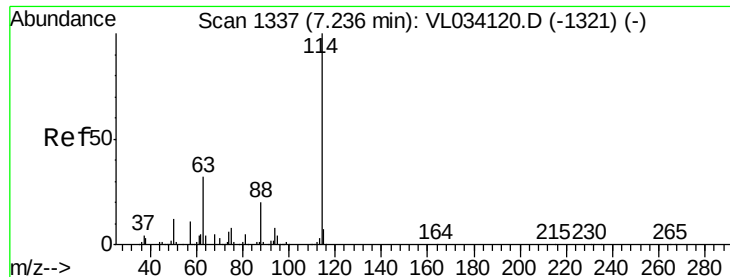


#32

1,1,1-Trichloroethane  
 Concen: 9.061 ppbv  
 RT: 6.56 min Scan# 1173  
 Delta R.T. -0.01 min  
 Lab File: VL034162.D  
 Acq: 12 Sep 2019 17:49

| Tgt Ion | 97    | Resp  | 1701128 |
|---------|-------|-------|---------|
| Ion     | Ratio | Lower | Upper   |
| 97      | 100   |       |         |
| 99      | 65.1  | 51.7  | 77.5    |
| 61      | 58.9  | 44.0  | 66.0    |





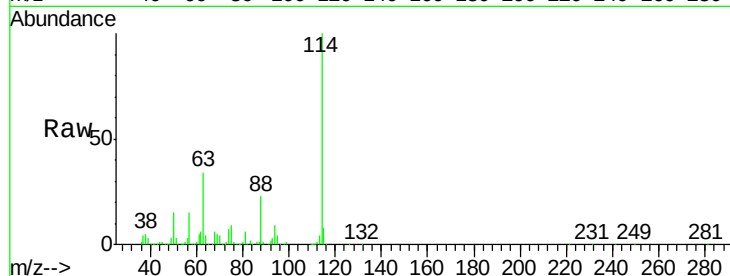
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.23 min Scan# 1382  
 Delta R.T. -0.01 min  
 Lab File: VL034162.D  
 Acq: 12 Sep 2019 17:49

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0912ABS01

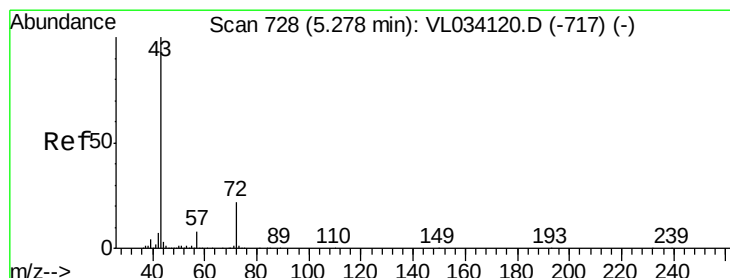
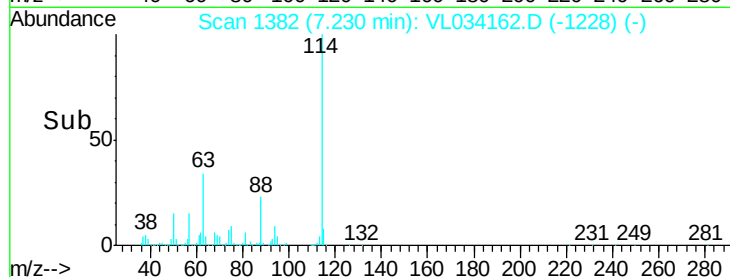
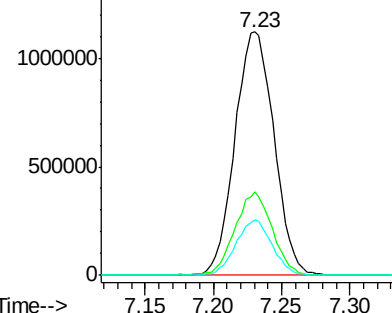
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 33.2  | 25.5  | 38.3  |
| 88      | 21.1  | 16.8  | 25.2  |

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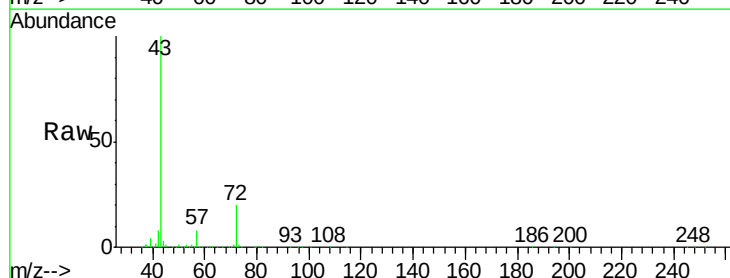


Abundance Ion 114.10 (113.80 to 114.80): VL0  
 Ion 63.10 (62.80 to 63.80): VL0  
 Ion 88.10 (87.80 to 88.80): VL0

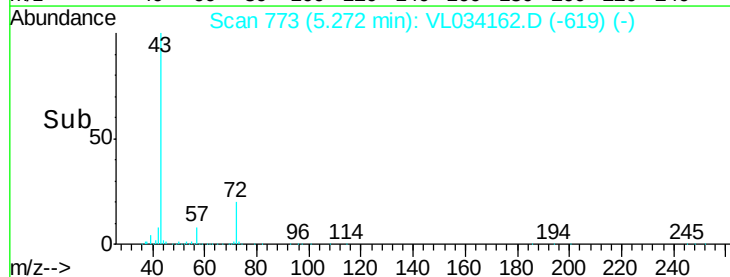
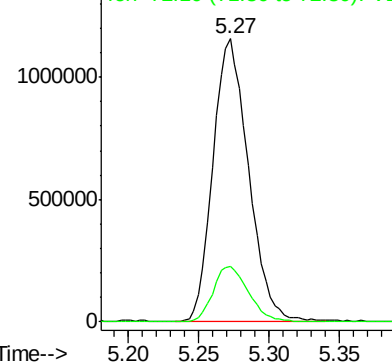


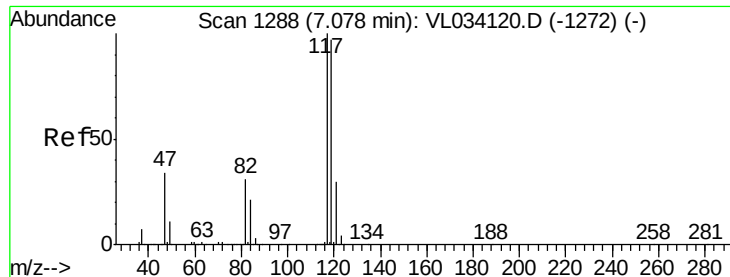
#34  
 2-Butanone  
 Concen: 9.499 ppbv  
 RT: 5.27 min Scan# 773  
 Delta R.T. -0.01 min  
 Lab File: VL034162.D  
 Acq: 12 Sep 2019 17:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 19.7  | 16.5  | 24.7  |



Abundance Ion 43.10 (42.80 to 43.80): VL0  
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 9.583 ppbv

RT: 7.07 min Scan# 1333

Delta R.T. -0.01 min

Lab File: VL034162.D

Acq: 12 Sep 2019 17:49

Instrument :

MSVOA\_L

ClientSampleId :

VL0912ABS01

Tot Ion:117 Resp: 1667507

Ion Ratio Lower Upper

117 100

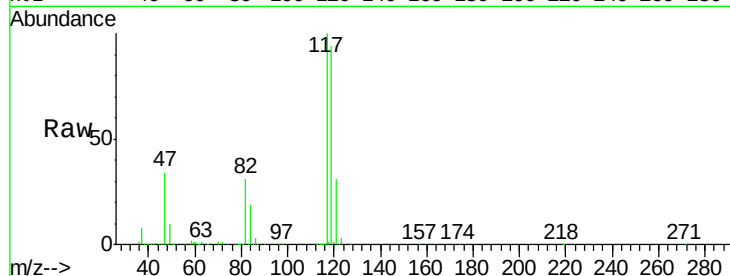
119 93.7 77.2 115.8

121 30.9 24.2 36.4

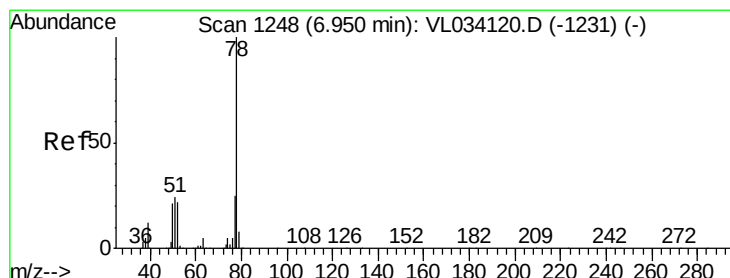
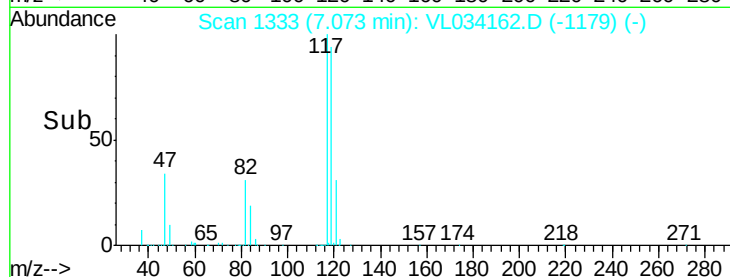
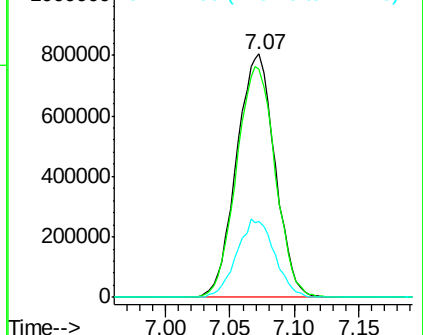
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Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 119.00 (118.70 to 119.70): V  
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.130 ppbv

RT: 6.94 min Scan# 1292

Delta R.T. -0.01 min

Lab File: VL034162.D

Acq: 12 Sep 2019 17:49

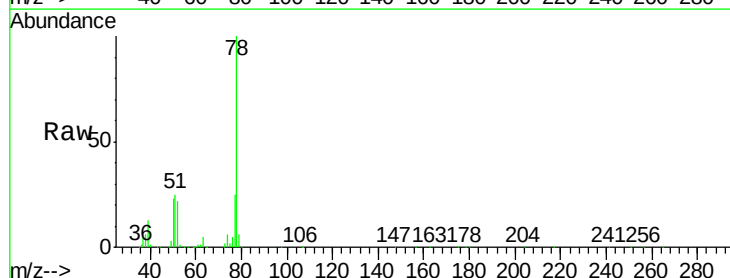
Tgt Ion: 78 Resp: 2329315

Ion Ratio Lower Upper

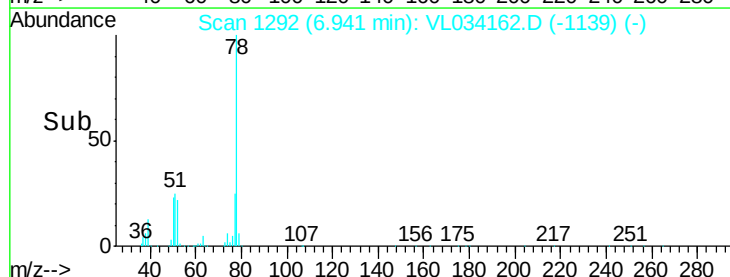
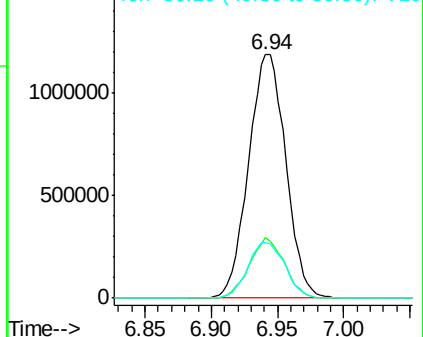
78 100

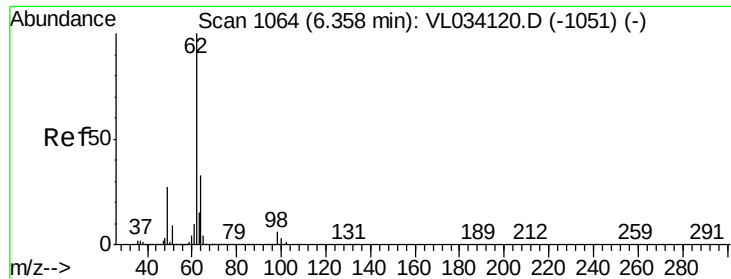
77 24.7 20.3 30.5

50 22.8 16.9 25.3



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





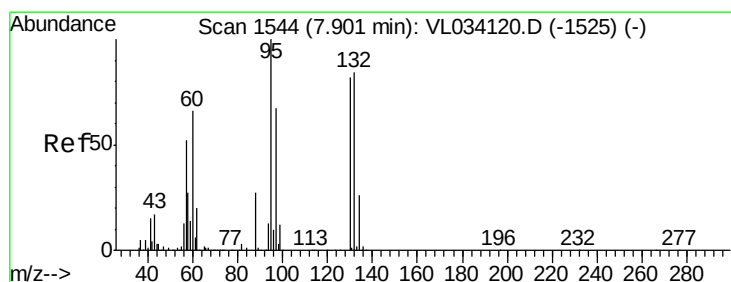
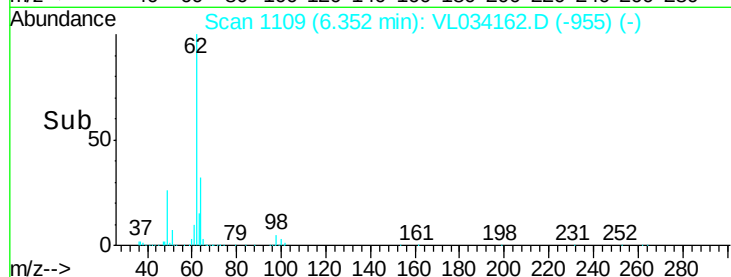
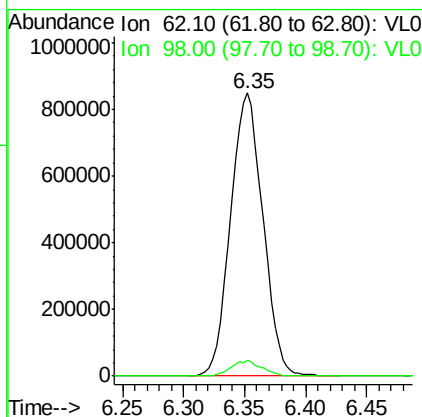
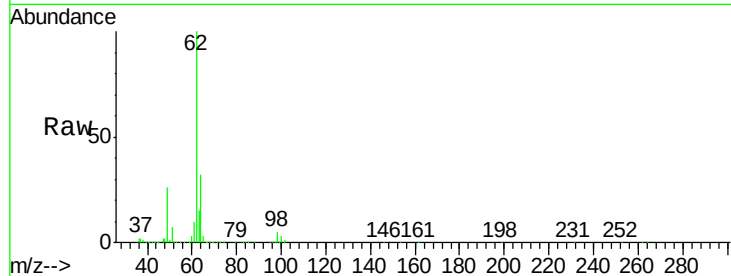
#37  
 1,2-Dichloroethane  
 Concen: 10.005 ppbv  
 RT: 6.35 min Scan# 1109  
 Delta R.T. -0.01 min  
 Lab File: VL034162.D  
 Acq: 12 Sep 2019 17:49

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0912ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 62      | 100   |       |       |
| 98      | 5.2   | 4.4   | 6.6   |

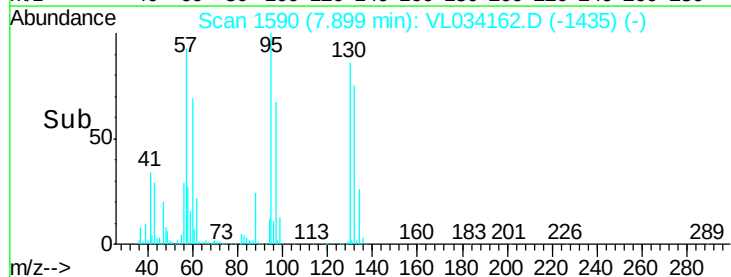
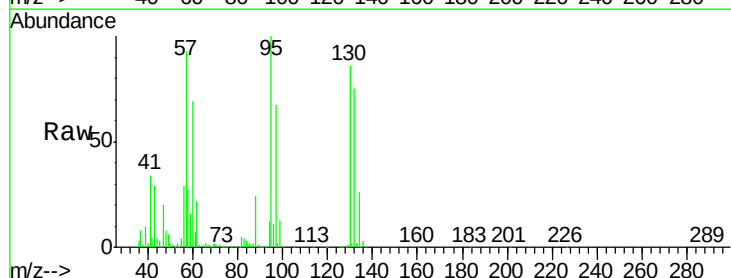
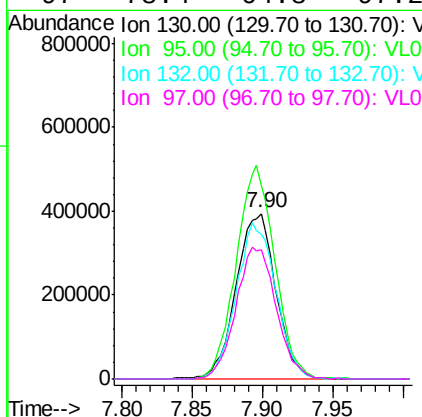
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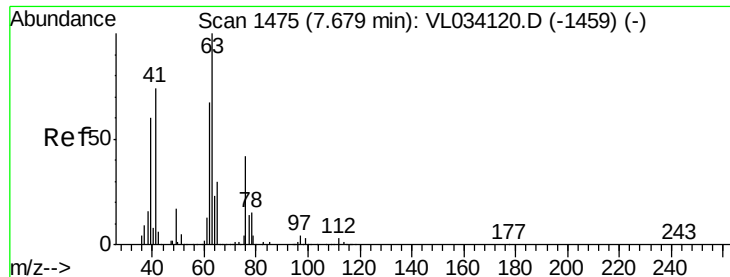
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#38  
 Trichloroethene  
 Concen: 8.122 ppbv  
 RT: 7.90 min Scan# 1590  
 Delta R.T. -0.00 min  
 Lab File: VL034162.D  
 Acq: 12 Sep 2019 17:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 130     | 100   |       |       |
| 95      | 116.7 | 97.2  | 145.8 |
| 132     | 87.1  | 81.4  | 122.2 |
| 97      | 78.4  | 64.8  | 97.2  |





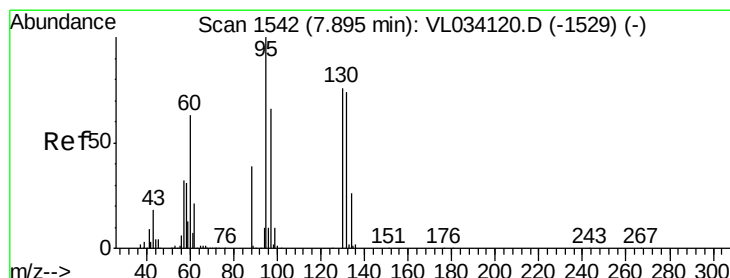
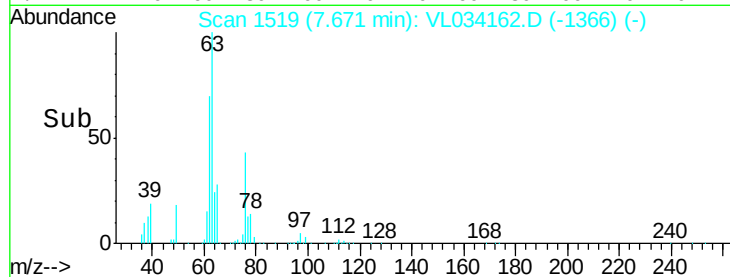
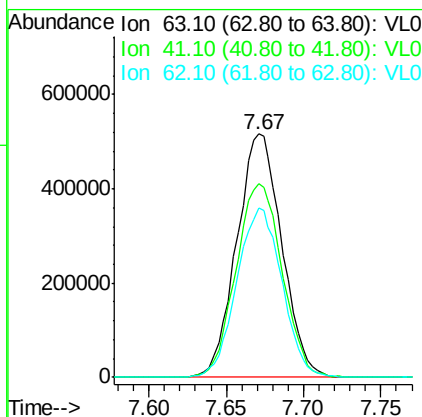
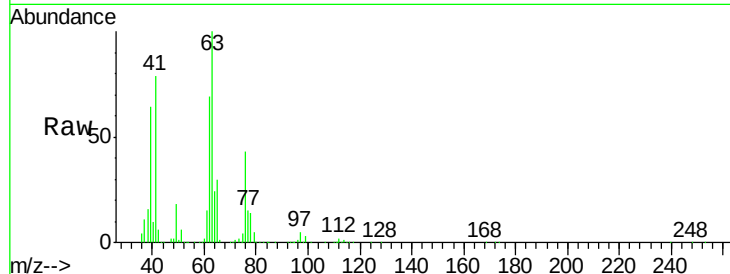
#39  
 1,2-Dichloropropane  
 Concen: 9.540 ppbv  
 RT: 7.67 min Scan# 1519  
 Delta R.T. -0.01 min  
 Lab File: VL034162.D  
 Acq: 12 Sep 2019 17:49

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0912ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 41      | 79.1  | 59.3  | 88.9  |
| 62      | 69.4  | 53.8  | 80.6  |

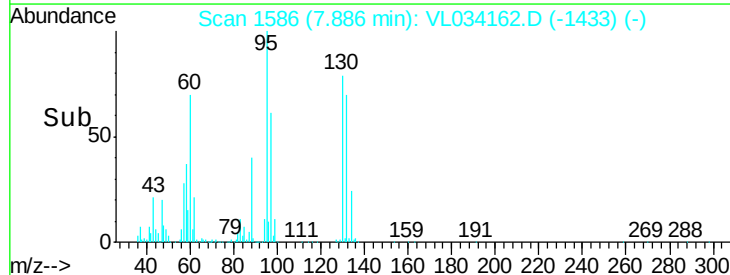
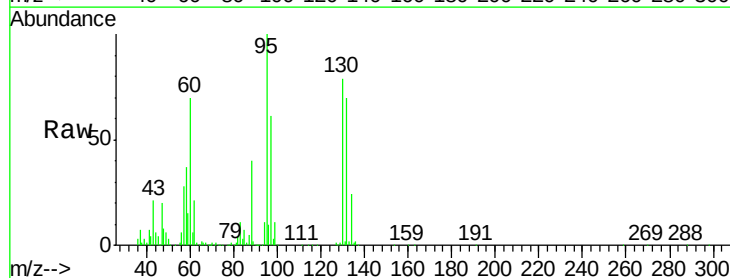
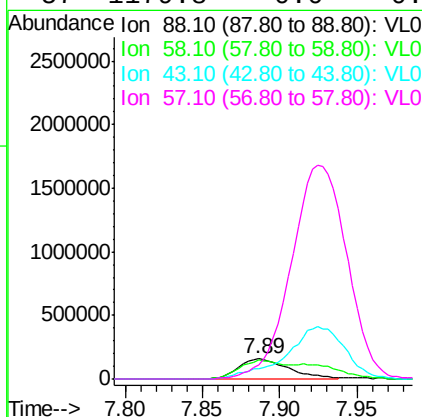
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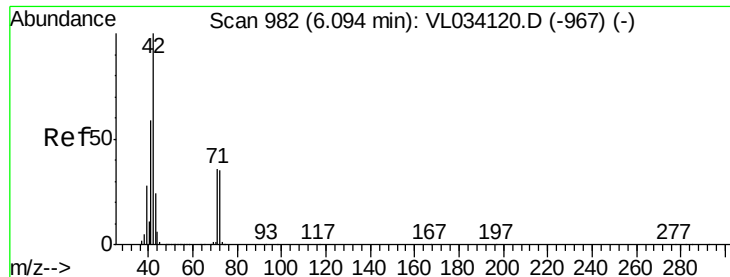


#40  
 1,4-Dioxane  
 Concen: 8.920 ppbv  
 RT: 7.89 min Scan# 1586  
 Delta R.T. -0.01 min  
 Lab File: VL034162.D  
 Acq: 12 Sep 2019 17:49

| Tgt Ion | Ratio  | Lower | Upper |
|---------|--------|-------|-------|
| 88      | 100    |       |       |
| 58      | 150.3  | 121.7 | 182.5 |
| 43      | 302.2  | 0.0   | 0.0#  |
| 57      | 1179.8 | 0.0   | 0.0#  |







#41

Tetrahydrofuran

Concen: 9.607 ppbv

RT: 6.09 min Scan# 1026

Delta R.T. -0.01 min

Lab File: VL034162.D

Acq: 12 Sep 2019 17:49

Instrument :

MSVOA\_L

ClientSampleId :

VL0912ABS01

Tot Ion: 42 Resp: 1235882

Ion Ratio Lower Upper

42 100

72 33.5 27.7 41.5

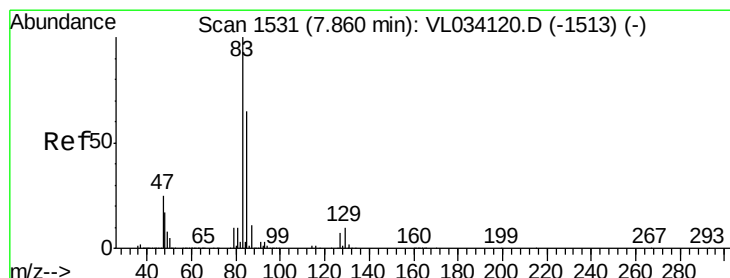
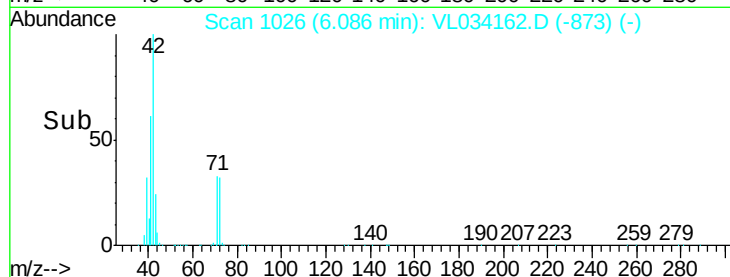
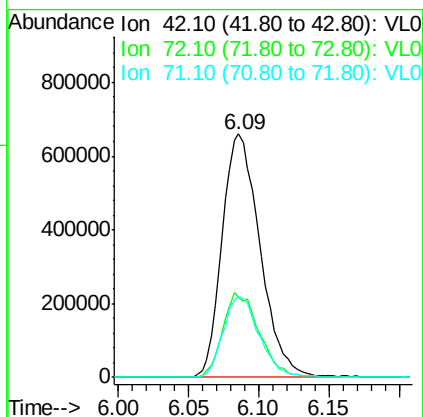
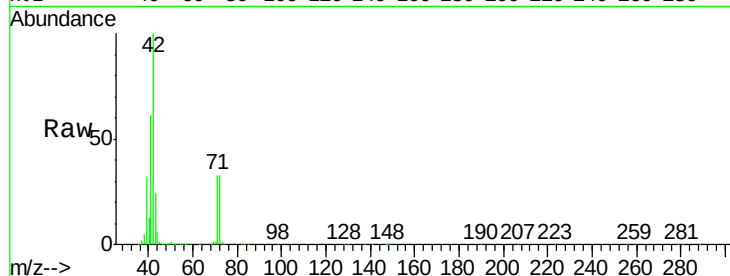
71 32.1 26.7 40.1

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#42

Bromodichloromethane

Concen: 9.766 ppbv

RT: 7.85 min Scan# 1575

Delta R.T. -0.01 min

Lab File: VL034162.D

Acq: 12 Sep 2019 17:49

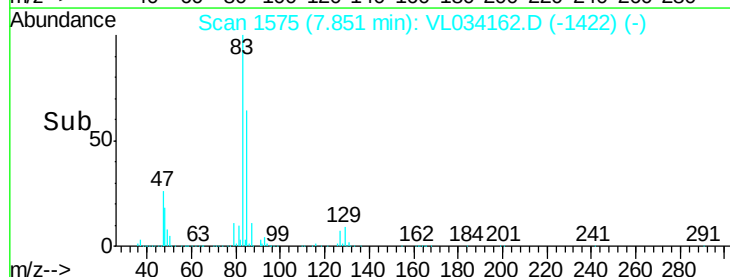
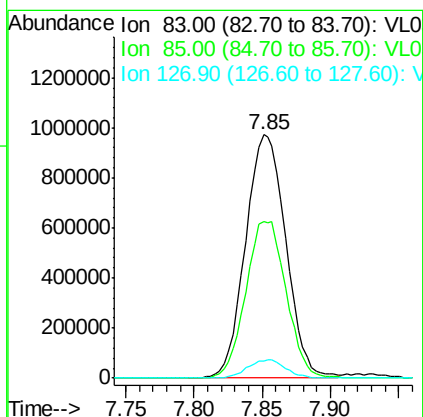
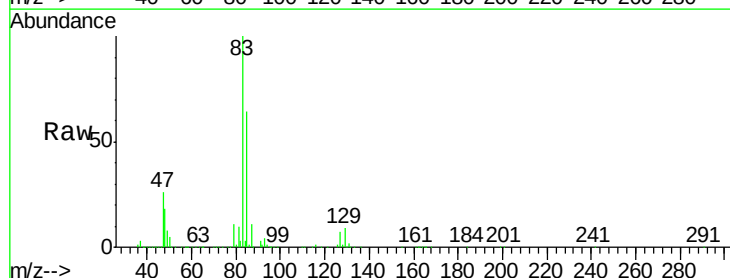
Tgt Ion: 83 Resp: 1992020

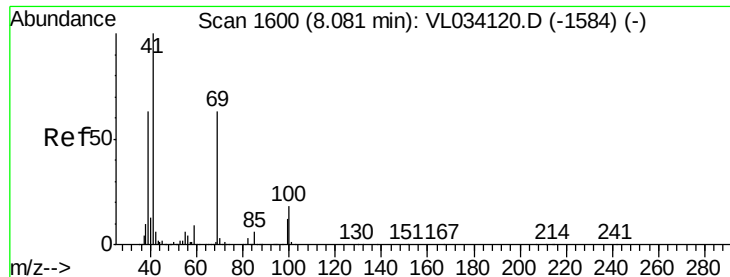
Ion Ratio Lower Upper

83 100

85 64.5 51.6 77.4

127 7.2 5.4 8.0





#43

Methyl Methacrylate

Concen: 9.796 ppbv

RT: 8.07 min Scan# 1644

Delta R.T. -0.01 min

Lab File: VL034162.D

Acq: 12 Sep 2019 17:49

Instrument :

MSVOA\_L

ClientSampleID :

VL0912ABS01

Tot Ion: 69 Resp: 1029576

Ion Ratio Lower Upper

69 100

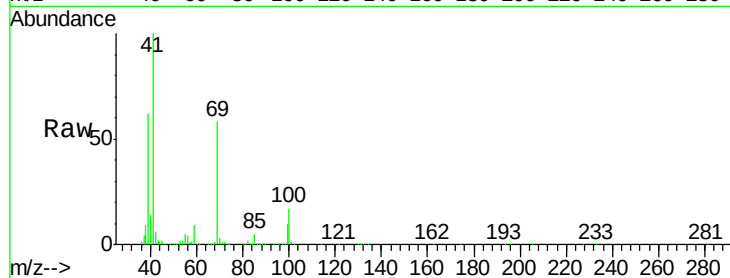
41 170.9 131.0 196.6

100 27.1 22.6 33.8

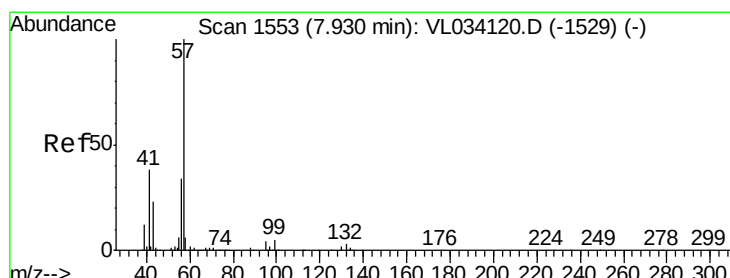
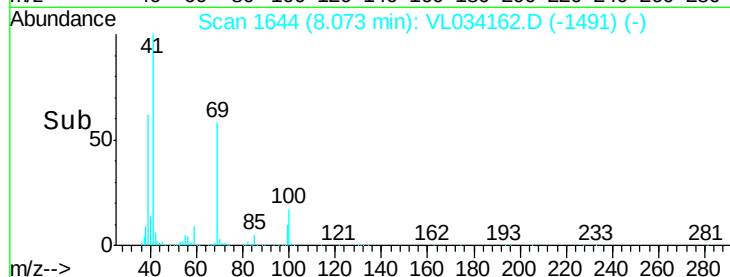
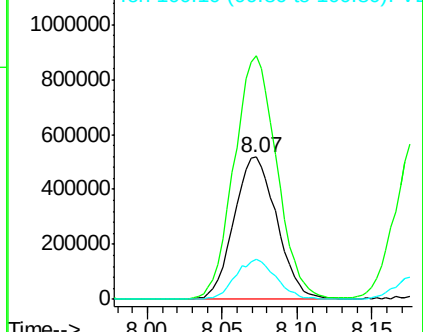
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Abundance Ion 69.10 (68.80 to 69.80): VL0  
Ion 41.10 (40.80 to 41.80): VL0  
Ion 100.10 (99.80 to 100.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 8.963 ppbv

RT: 7.92 min Scan# 1598

Delta R.T. -0.01 min

Lab File: VL034162.D

Acq: 12 Sep 2019 17:49

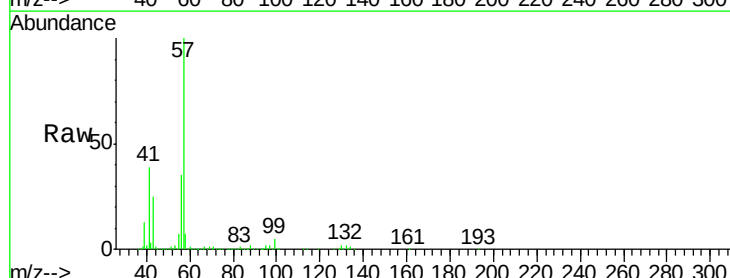
Tgt Ion: 57 Resp: 4215967

Ion Ratio Lower Upper

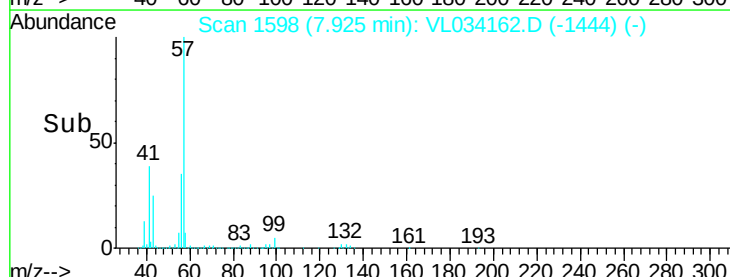
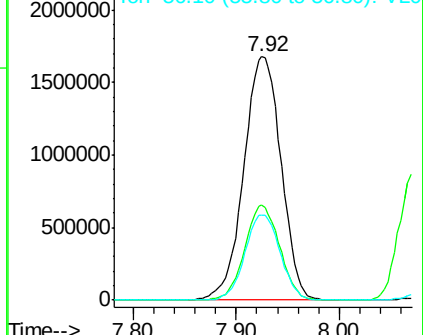
57 100

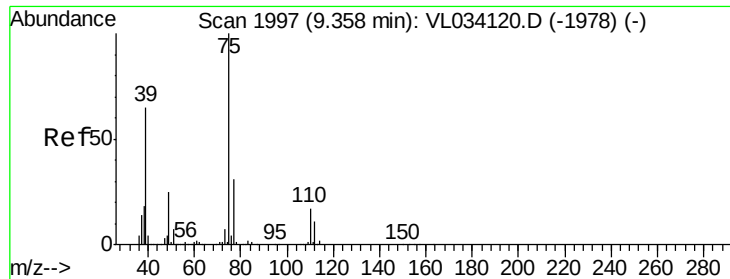
41 36.4 28.4 42.6

56 33.0 26.3 39.5



Abundance Ion 57.10 (56.80 to 57.80): VL0  
Ion 41.10 (40.80 to 41.80): VL0  
Ion 56.10 (55.80 to 56.80): VL0





#45

t-1,3-Dichloropropene

Concen: 9.928 ppbv

RT: 9.35 min Scan# 2041

Delta R.T. -0.01 min

Lab File: VL034162.D

Acq: 12 Sep 2019 17:49

Instrument :

MSVOA\_L

ClientSampleId :

VL0912ABS01

Tot Ion: 75 Resp: 1226343

Ion Ratio Lower Upper

75 100

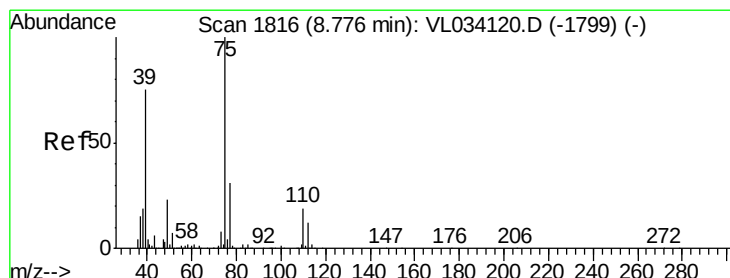
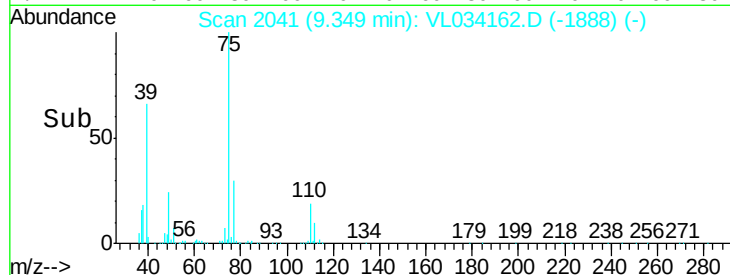
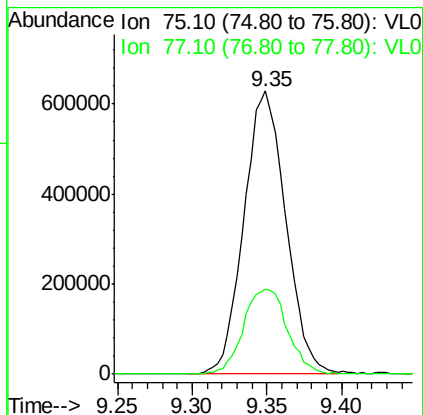
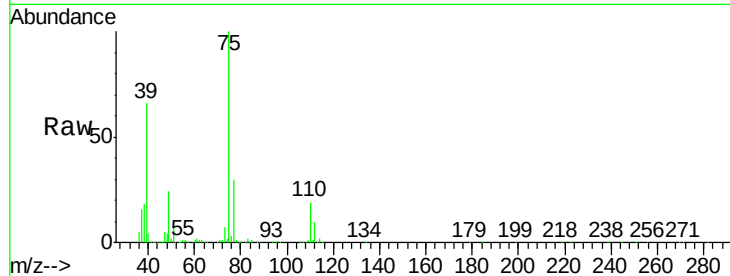
77 30.1 24.6 36.8

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#46

cis-1,3-Dichloropropene

Concen: 9.531 ppbv

RT: 8.77 min Scan# 1860

Delta R.T. -0.01 min

Lab File: VL034162.D

Acq: 12 Sep 2019 17:49

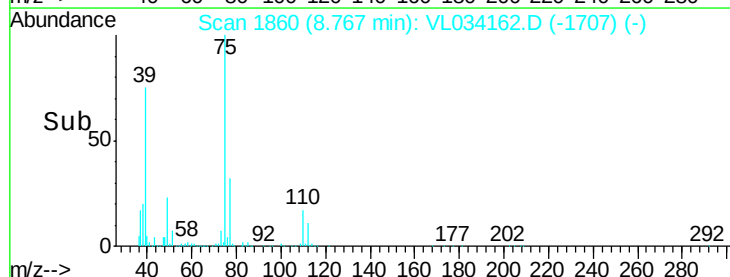
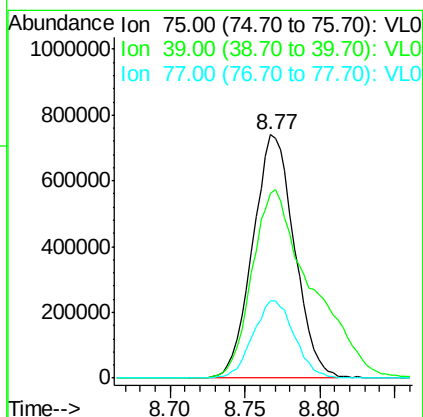
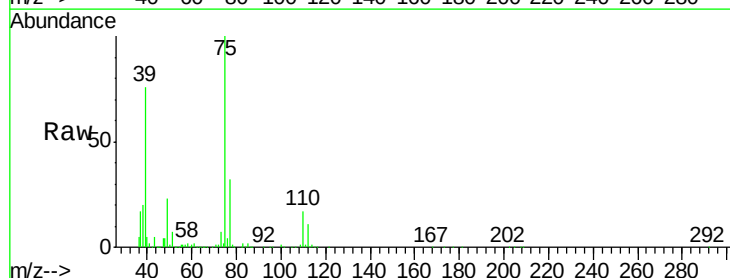
Tgt Ion: 75 Resp: 1432304

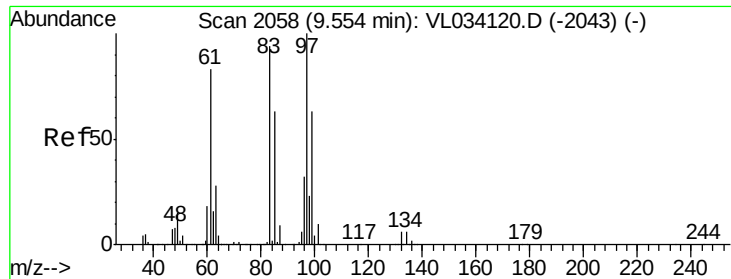
Ion Ratio Lower Upper

75 100

39 75.7 60.0 90.0

77 31.9 24.8 37.2





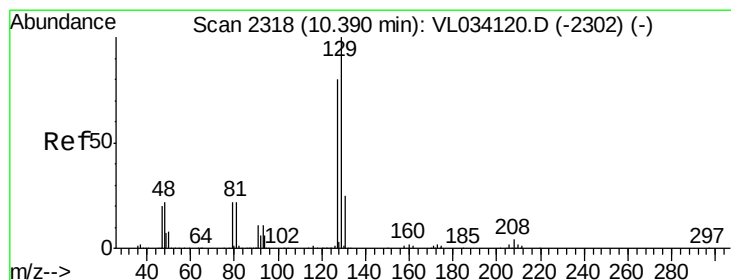
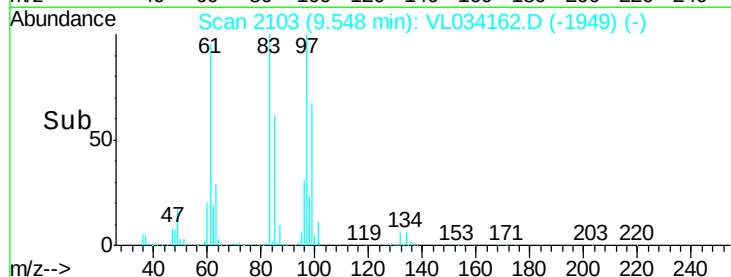
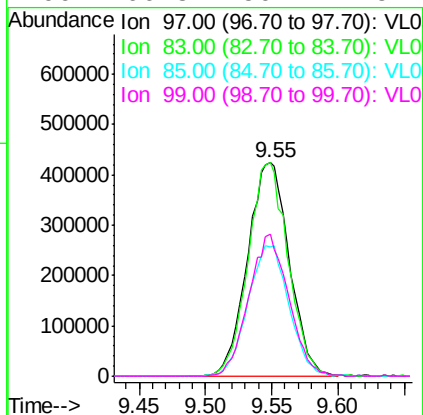
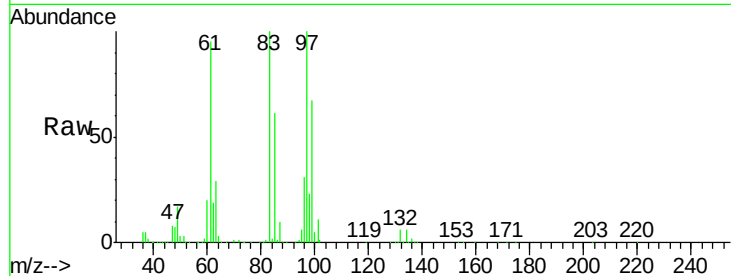
#47  
 1,1,2-Trichloroethane  
 Concen: 9.348 ppbv  
 RT: 9.55 min Scan# 2103  
 Delta R.T. -0.01 min  
 Lab File: VL034162.D  
 Acq: 12 Sep 2019 17:49

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0912ABS01

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 97      | 100  |       | 929873 |       |       |
| 83      | 99.9 | 74.9  | 112.3  |       |       |
| 85      | 60.7 | 50.6  | 75.8   |       |       |
| 99      | 66.8 | 50.2  | 75.2   |       |       |

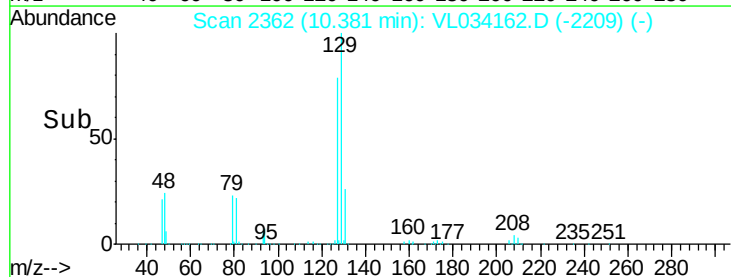
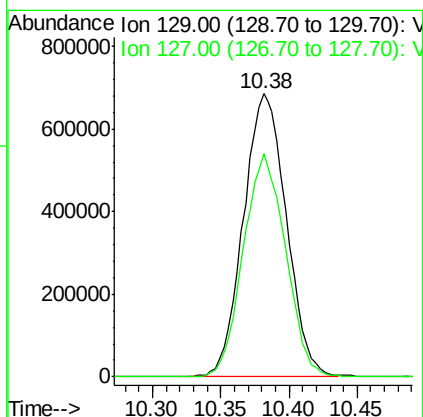
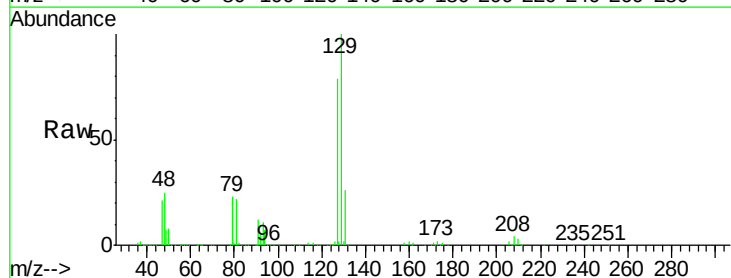
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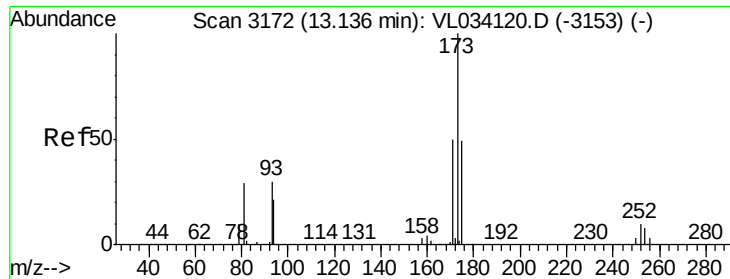
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#48  
 Dibromochloromethane  
 Concen: 10.081 ppbv  
 RT: 10.38 min Scan# 2362  
 Delta R.T. -0.01 min  
 Lab File: VL034162.D  
 Acq: 12 Sep 2019 17:49

| Tgt Ion | Ion  | Ratio | Resp    | Lower | Upper |
|---------|------|-------|---------|-------|-------|
| 129     | 100  |       | 1496238 |       |       |
| 127     | 78.0 | 40.2  | 120.6   |       |       |





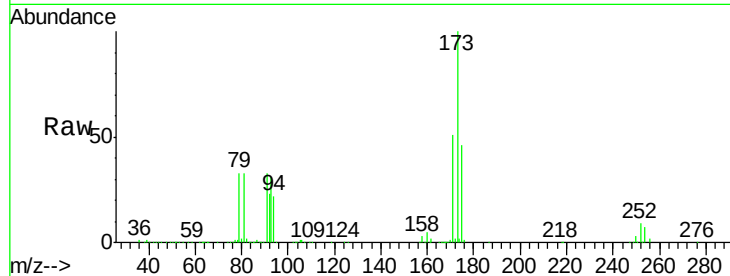
#49  
Bromoform  
Concen: 9.604 ppbv  
RT: 13.13 min Scan# 3217  
Delta R.T. -0.01 min  
Lab File: VL034162.D  
Acq: 12 Sep 2019 17:49

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0912ABS01

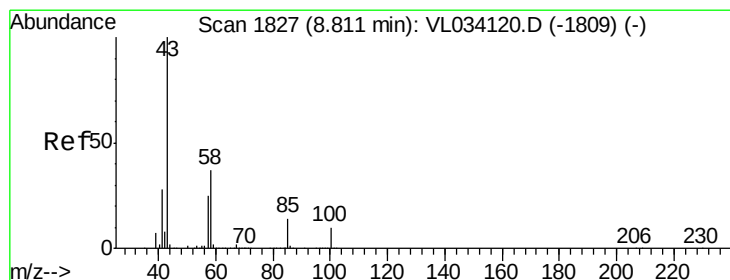
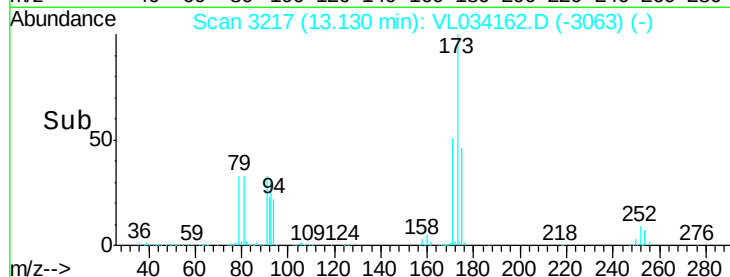
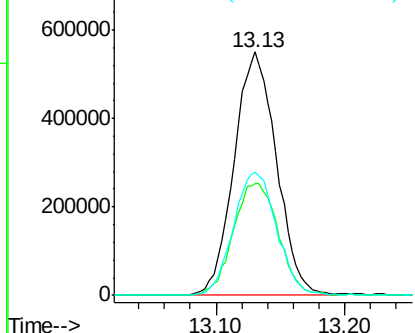
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 173     | 100   |       |       |
| 175     | 49.7  | 40.0  | 60.0  |
| 171     | 52.1  | 42.2  | 63.2  |

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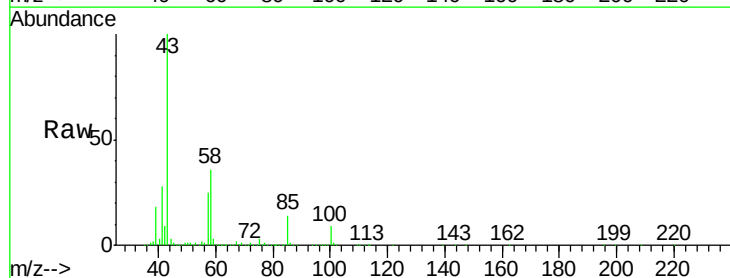


Abundance Ion 172.90 (172.60 to 173.60): V  
Ion 174.90 (174.60 to 175.60): V  
Ion 170.90 (170.60 to 171.60): V

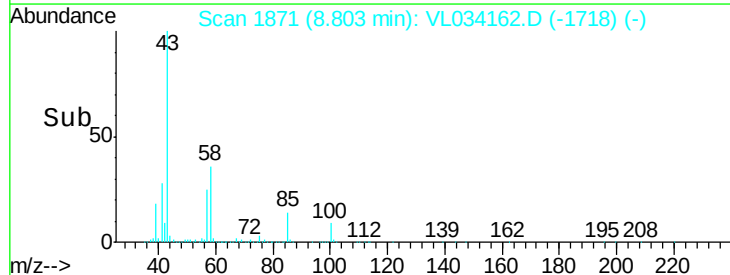
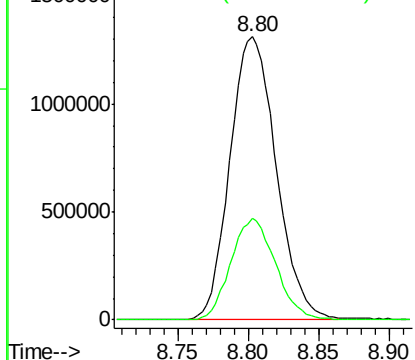


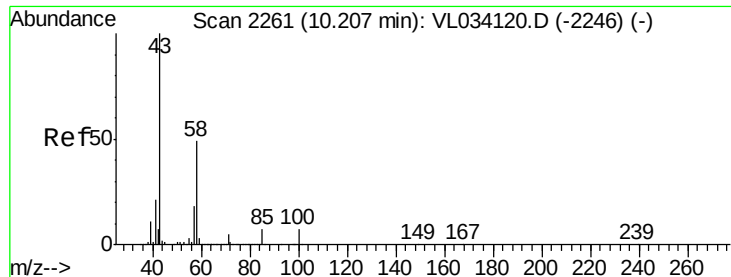
#50  
4-Methyl-2-Pentanone  
Concen: 9.150 ppbv  
RT: 8.80 min Scan# 1871  
Delta R.T. -0.01 min  
Lab File: VL034162.D  
Acq: 12 Sep 2019 17:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 34.9  | 28.5  | 42.7  |



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





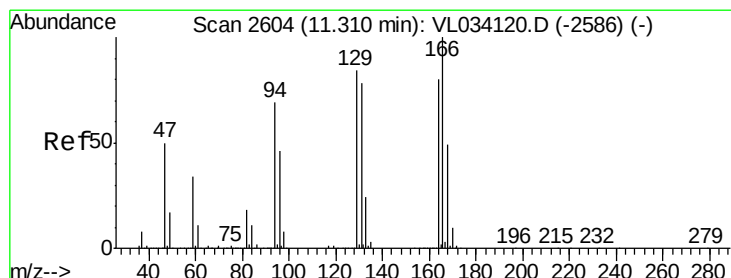
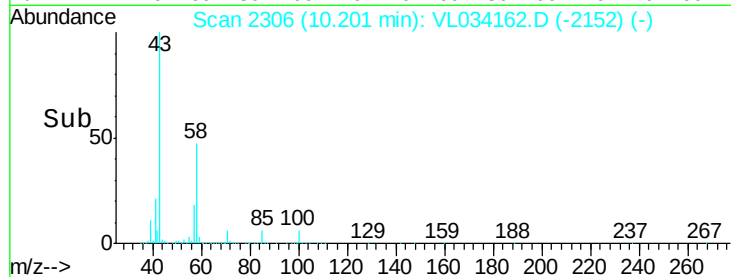
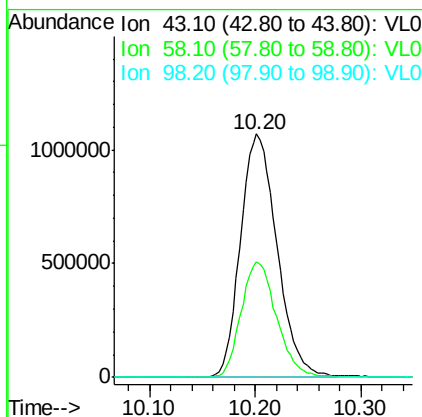
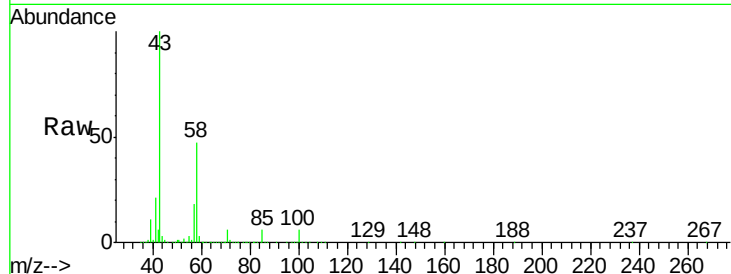
#51  
2-Hexanone  
Concen: 9.119 ppbv  
RT: 10.20 min Scan# 2306  
Delta R.T. -0.01 min  
Lab File: VL034162.D  
Acq: 12 Sep 2019 17:49

Instrument :  
MSVOA\_L  
ClientSampled :  
VL0912ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 46.2  | 38.2  | 57.2  |
| 98      | 0.1   | 0.1   | 0.1#  |

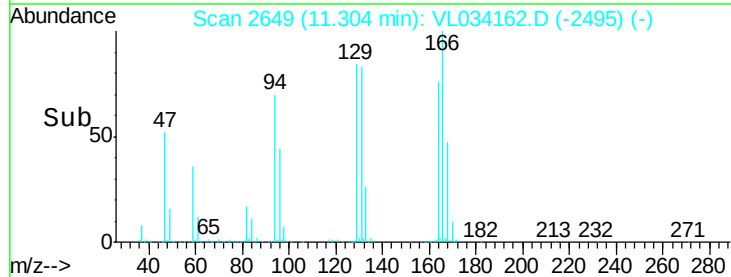
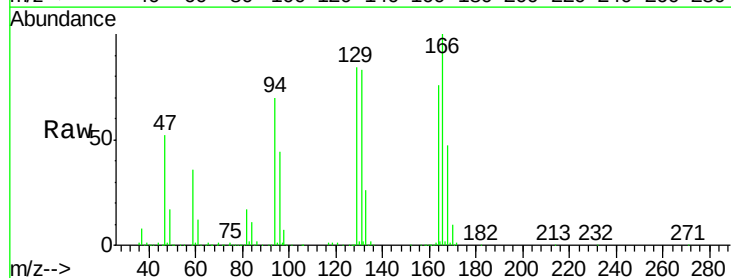
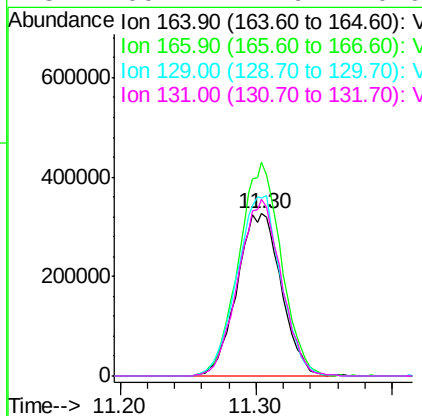
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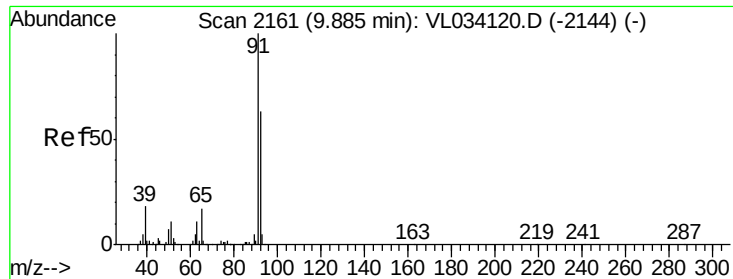
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#52  
Tetrachloroethene  
Concen: 8.192 ppbv m  
RT: 11.30 min Scan# 2649  
Delta R.T. -0.01 min  
Lab File: VL034162.D  
Acq: 12 Sep 2019 17:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 131.8 | 99.5  | 149.3 |
| 129     | 110.1 | 83.6  | 125.4 |
| 131     | 109.4 | 77.9  | 116.9 |





#53

Toluene

Concen: 9.150 ppbv

RT: 9.88 min Scan# 2205

Delta R.T. -0.01 min

Lab File: VL034162.D

Acq: 12 Sep 2019 17:49

Instrument :

MSVOA\_L

ClientSampleId :

VL0912ABS01

Tot Ion: 91 Resp: 2581834

Ion Ratio Lower Upper

91 100

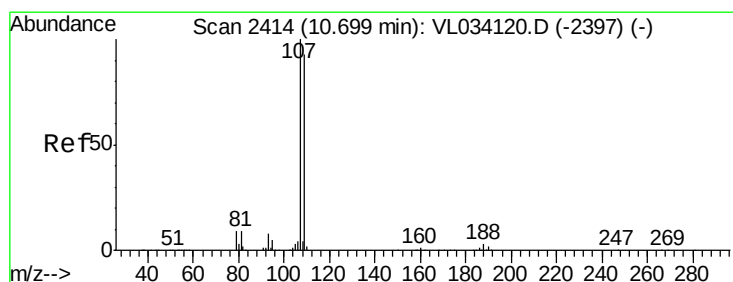
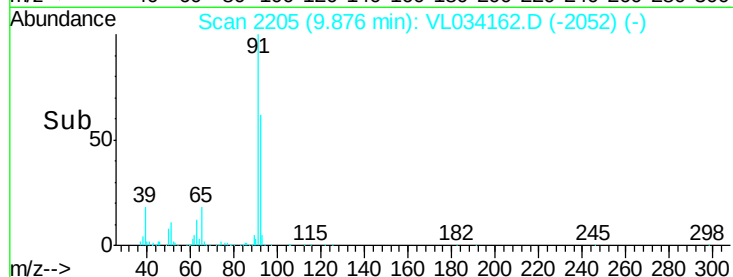
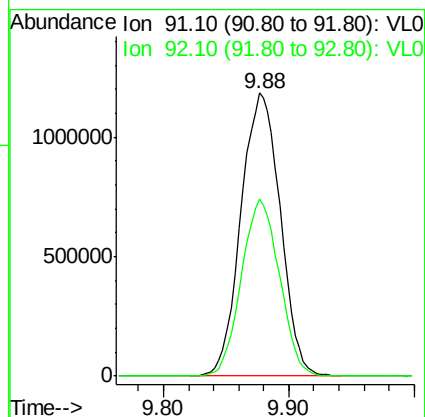
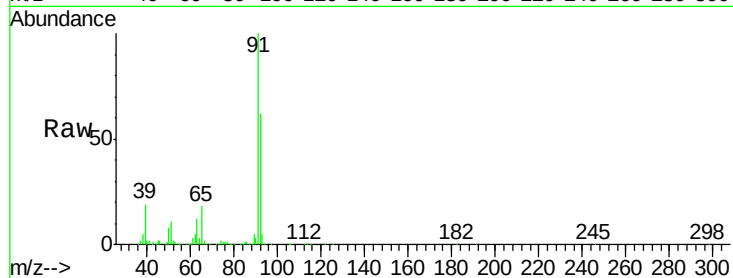
92 60.5 49.3 73.9

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#54

1,2-Dibromoethane

Concen: 9.616 ppbv

RT: 10.69 min Scan# 2458

Delta R.T. -0.01 min

Lab File: VL034162.D

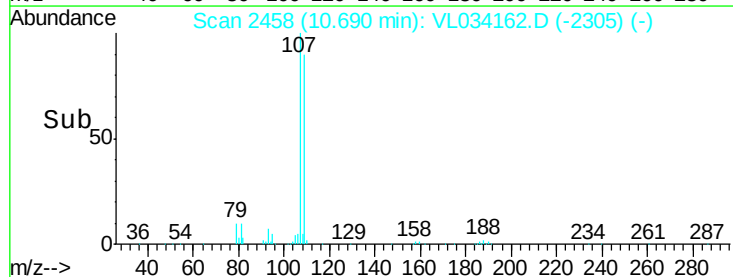
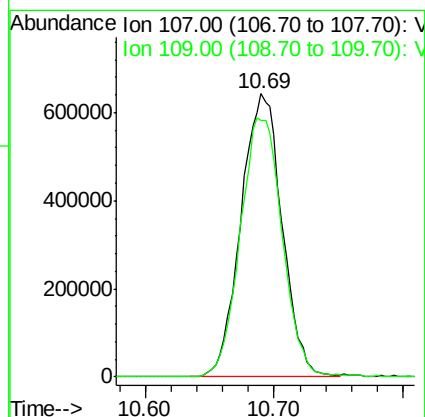
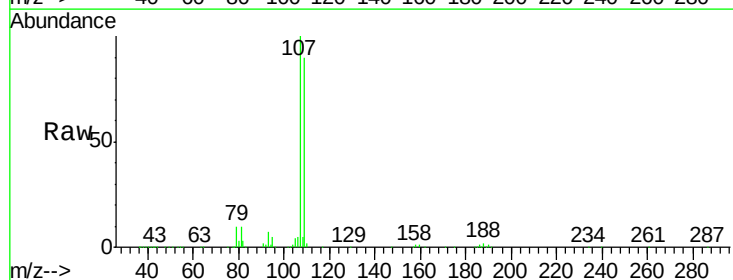
Acq: 12 Sep 2019 17:49

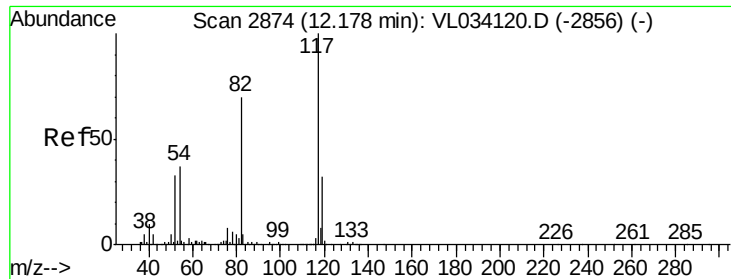
Tgt Ion: 107 Resp: 1424924

Ion Ratio Lower Upper

107 100

109 90.3 74.5 111.7





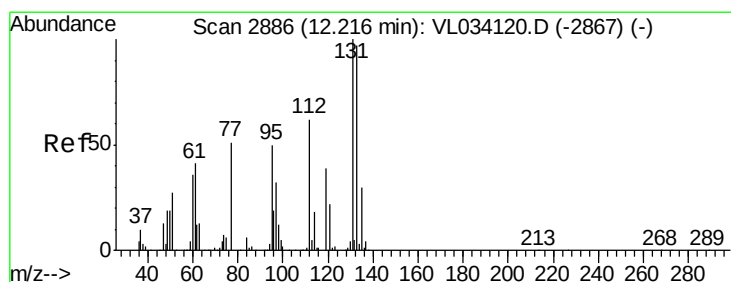
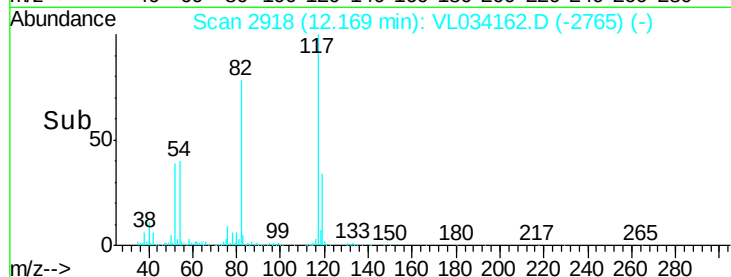
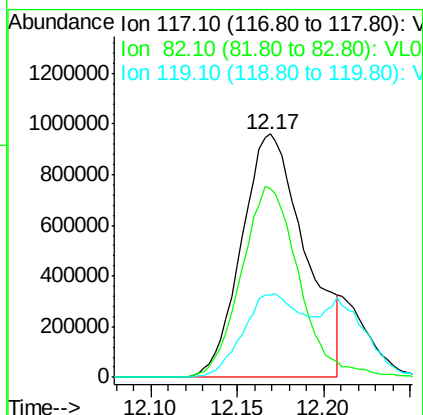
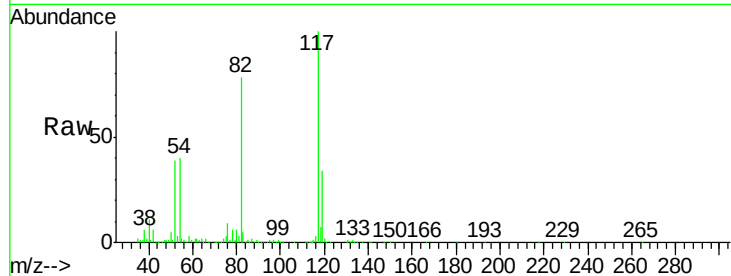
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv m  
RT: 12.17 min Scan# 2918  
Delta R.T. -0.01 min  
Lab File: VL034162.D  
Acq: 12 Sep 2019 17:49

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0912ABS01

Tot Ion:117 Resp: 2465706  
Ion Ratio Lower Upper  
117 100  
82 71.6 55.8 83.6  
119 35.0 43.1 64.7#

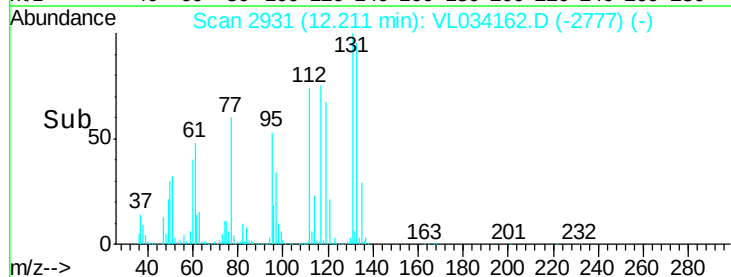
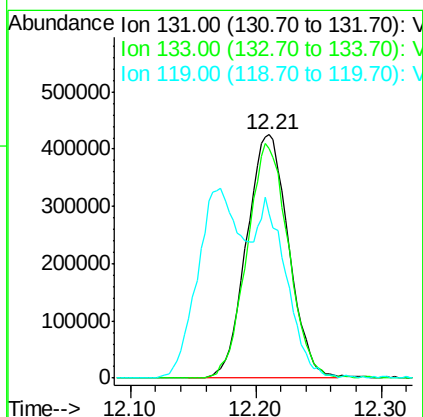
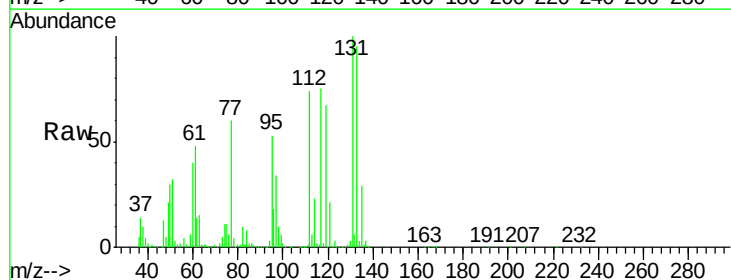
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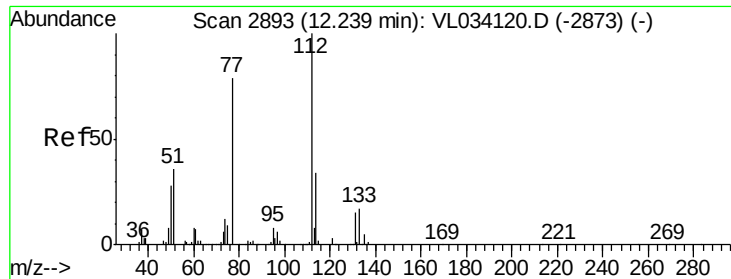


#56  
1,1,1,2-Tetrachloroethane  
Concen: 9.381 ppbv  
RT: 12.21 min Scan# 2931  
Delta R.T. -0.01 min  
Lab File: VL034162.D  
Acq: 12 Sep 2019 17:49

Tgt Ion:131 Resp: 992078  
Ion Ratio Lower Upper  
131 100  
133 95.5 75.8 113.6  
119 60.1 114.7 172.1#







#57

Chlorobenzene

Concen: 8.629 ppbv

RT: 12.23 min Scan# 2937

Delta R.T. -0.01 min

Lab File: VL034162.D

Acq: 12 Sep 2019 17:49

Instrument :

MSVOA\_L

ClientSampleId :

VL0912ABS01

Tot Ion:112 Resp: 1830304

Ion Ratio Lower Upper

112 100

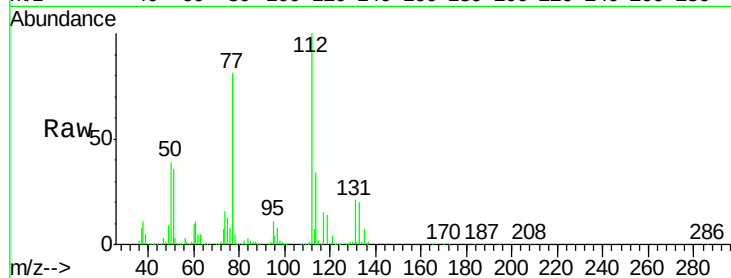
77 80.5 64.4 96.6

114 34.0 30.3 37.1

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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V

1000000

800000

600000

400000

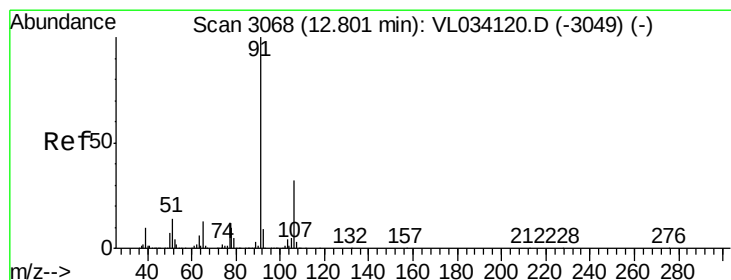
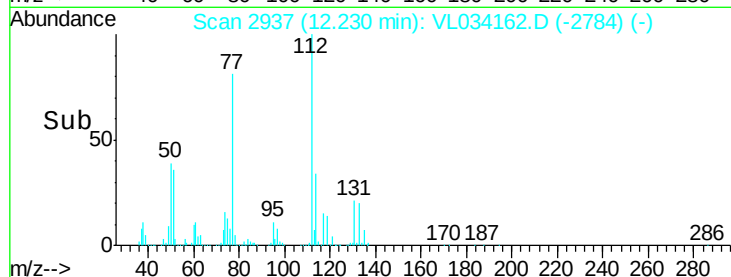
200000

0

12.20

12.30

Time-->



#58

Ethyl Benzene

Concen: 8.639 ppbv

RT: 12.79 min Scan# 3112

Delta R.T. -0.01 min

Lab File: VL034162.D

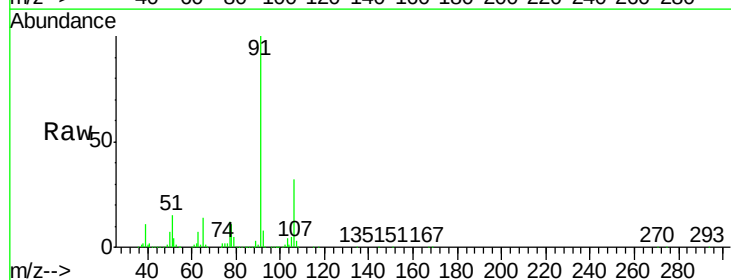
Acq: 12 Sep 2019 17:49

Tgt Ion: 91 Resp: 3492793

Ion Ratio Lower Upper

91 100

106 31.8 25.3 37.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

1500000

1000000

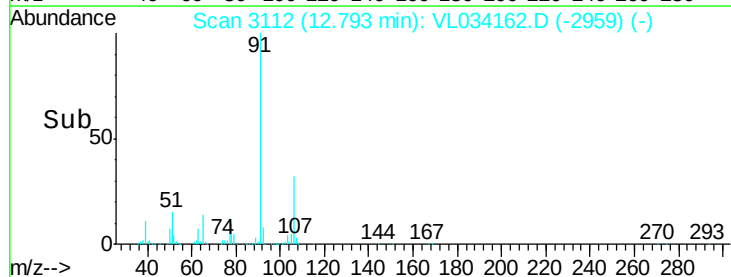
500000

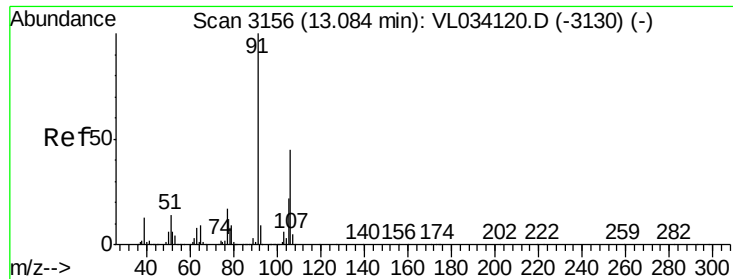
0

12.70

12.80

Time-->





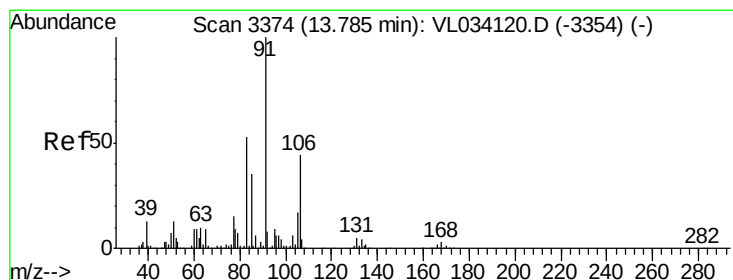
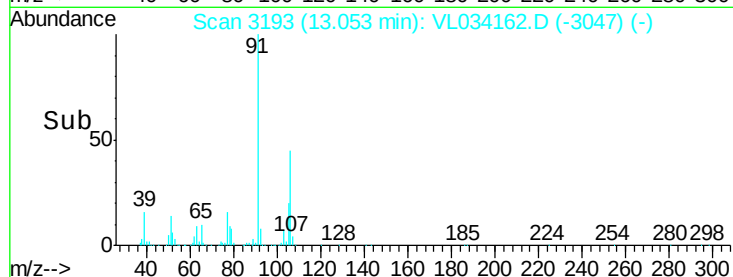
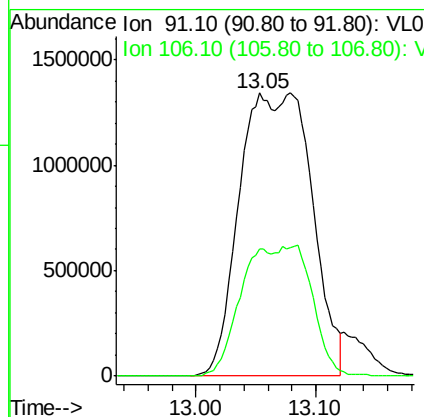
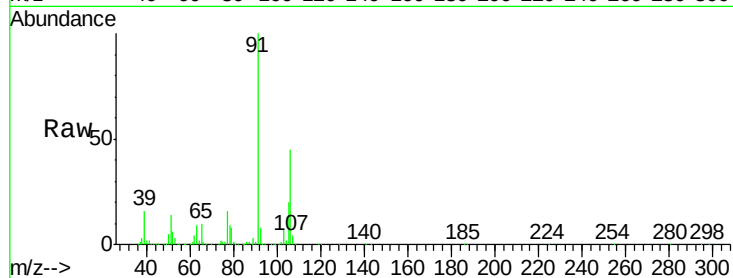
#59  
m/p-Xylene  
Concen: 17.078 ppbv m  
RT: 13.05 min Scan# 3193  
Delta R.T. -0.03 min  
Lab File: VL034162.D  
Acq: 12 Sep 2019 17:49

Instrument :  
MSVOA\_L  
ClientSampled :  
VL0912ABS01

Tot Ion: 91 Resp: 5632851  
Ion Ratio Lower Upper  
91 100  
106 44.7 35.4 53.2

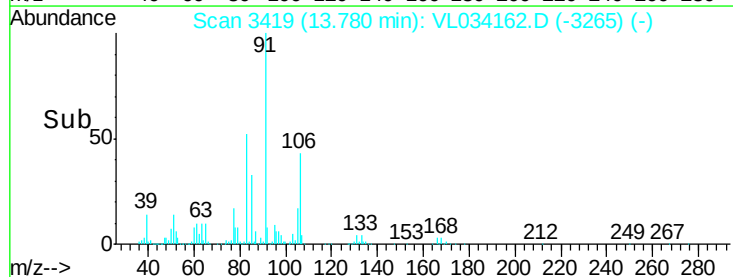
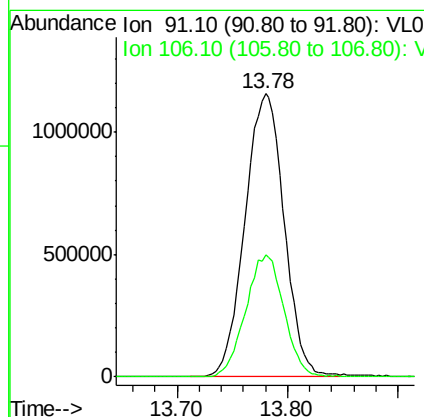
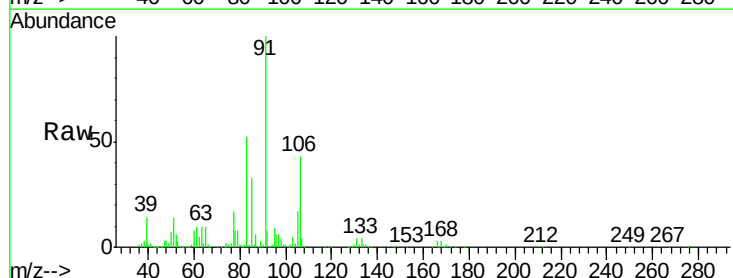
Manual Integrations  
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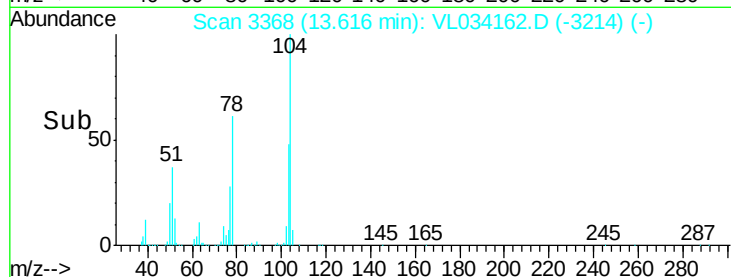
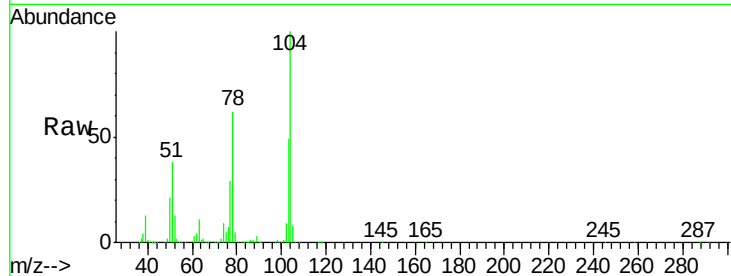
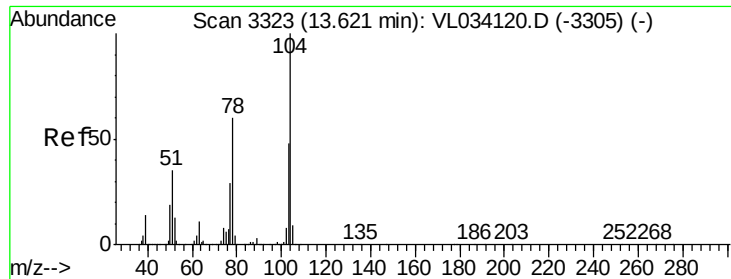
MMDadoda  
9/14/2019 12:09:47 AM



#60  
o-Xylene  
Concen: 8.661 ppbv  
RT: 13.78 min Scan# 3419  
Delta R.T. -0.01 min  
Lab File: VL034162.D  
Acq: 12 Sep 2019 17:49

Tgt Ion: 91 Resp: 2845334  
Ion Ratio Lower Upper  
91 100  
106 42.3 21.4 64.3





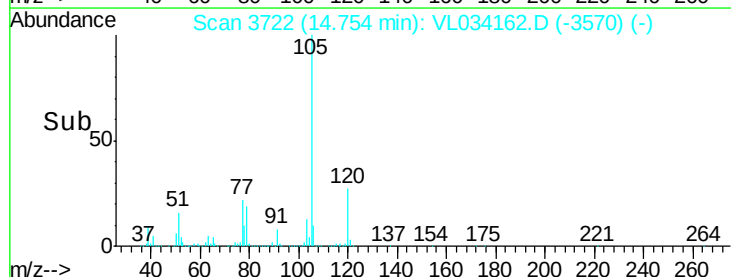
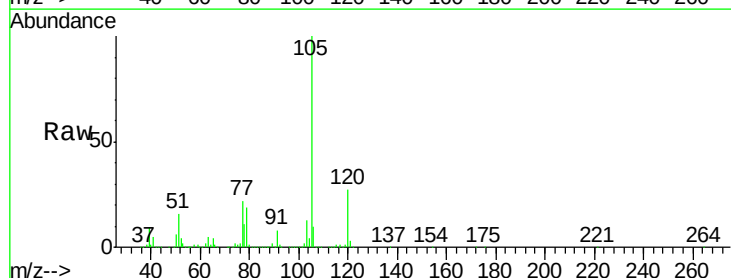
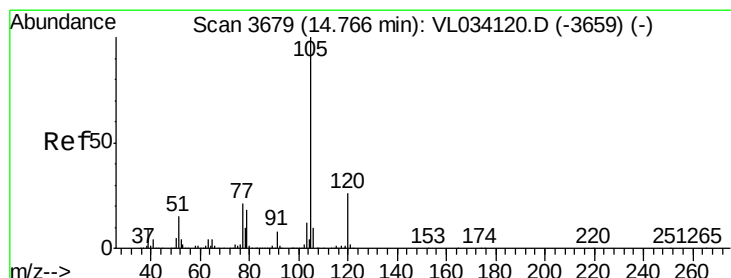
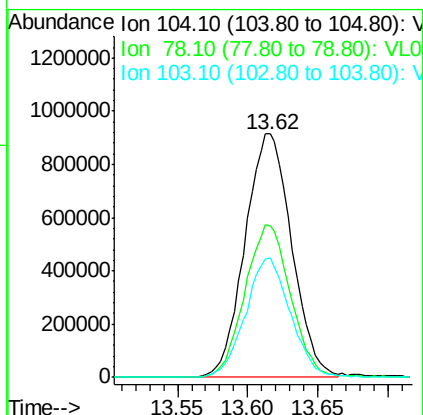
#61  
Stvrene  
Concen: 8.591 ppbv  
RT: 13.62 min Scan# 3368  
Delta R.T. -0.01 min  
Lab File: VL034162.D  
Acq: 12 Sep 2019 17:49

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0912ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 104     | 100   |       |       |
| 78      | 61.9  | 47.8  | 71.6  |
| 103     | 47.6  | 38.7  | 58.1  |

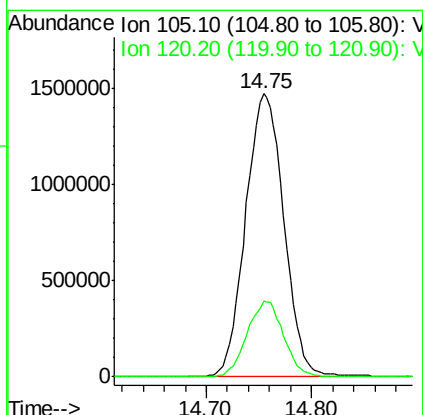
Manual Integrations  
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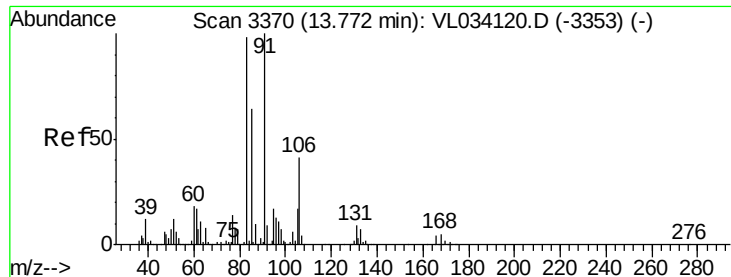
MMDadoda  
9/14/2019 12:09:47 AM



#62  
Isopropylbenzene  
Concen: 8.656 ppbv  
RT: 14.75 min Scan# 3722  
Delta R.T. -0.01 min  
Lab File: VL034162.D  
Acq: 12 Sep 2019 17:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 25.8  | 20.6  | 31.0  |





#63

1,1,2,2-Tetrachloroethane

Concen: 7.910 ppbv

RT: 13.77 min Scan# 3415

Delta R.T. -0.01 min

Lab File: VL034162.D

Acq: 12 Sep 2019 17:49

Instrument :

MSVOA\_L

ClientSampleId :

VL0912ABS01

Tot Ion: 83 Resp: 2117581

Ion Ratio Lower Upper

83 100

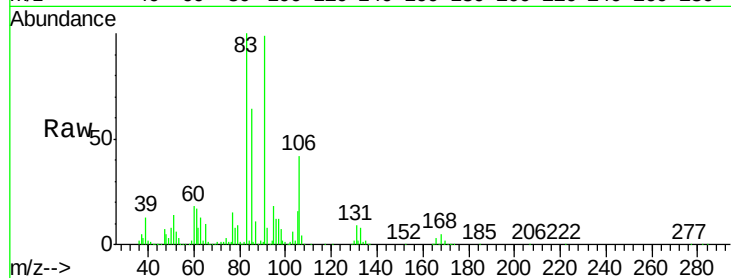
131 8.5 4.3 12.8

85 64.7 32.5 97.5

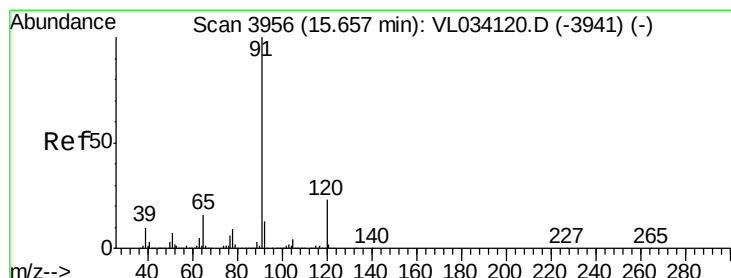
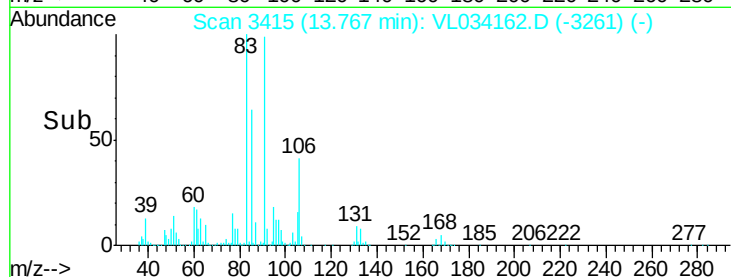
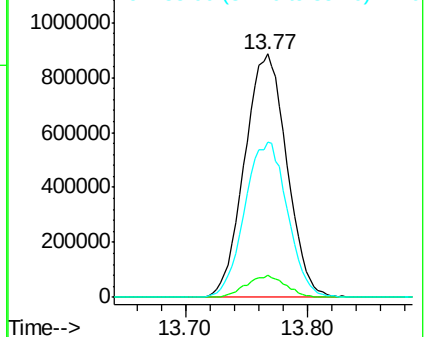
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Abundance Ion 83.00 (82.70 to 83.70): VL0  
Ion 131.00 (130.70 to 131.70): V  
Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 9.120 ppbv

RT: 15.65 min Scan# 4002

Delta R.T. -0.00 min

Lab File: VL034162.D

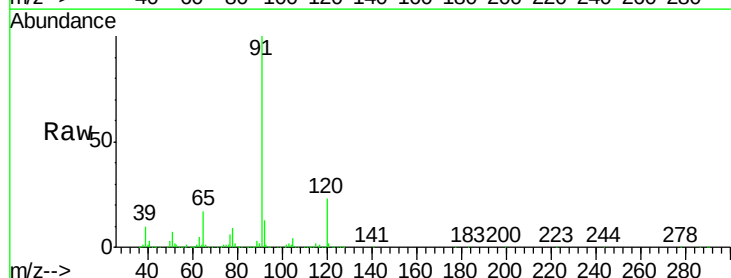
Acq: 12 Sep 2019 17:49

Tgt Ion:120 Resp: 976519

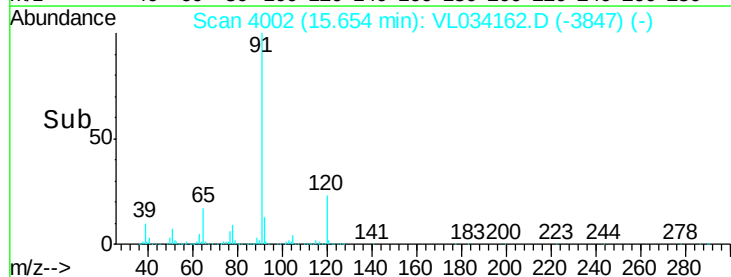
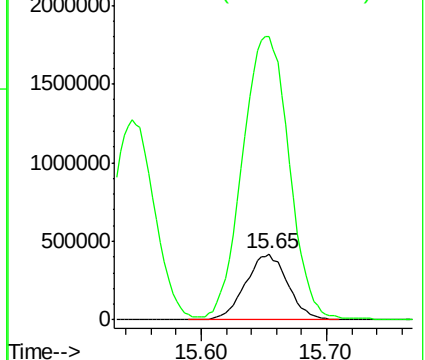
Ion Ratio Lower Upper

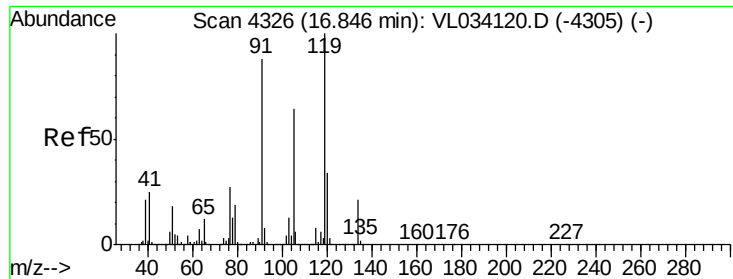
120 100

91 479.1 376.8 565.2



Abundance Ion 120.20 (119.90 to 120.90): V  
Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 8.505 ppbv

RT: 16.84 min Scan# 4371

Delta R.T. -0.01 min

Lab File: VL034162.D

Acq: 12 Sep 2019 17:49

Instrument :

MSVOA\_L

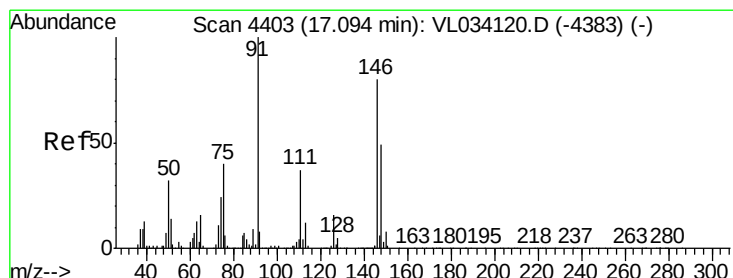
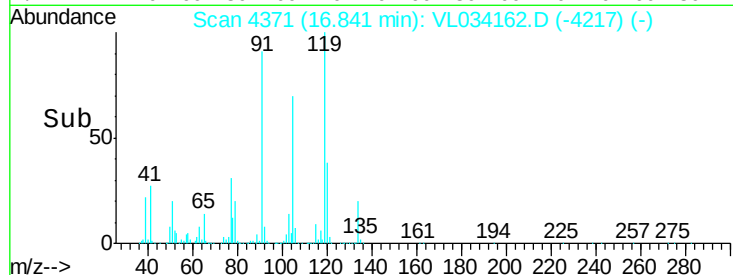
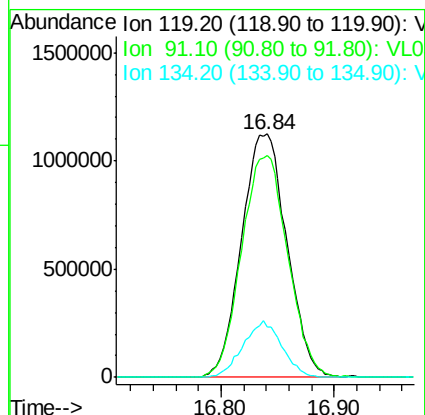
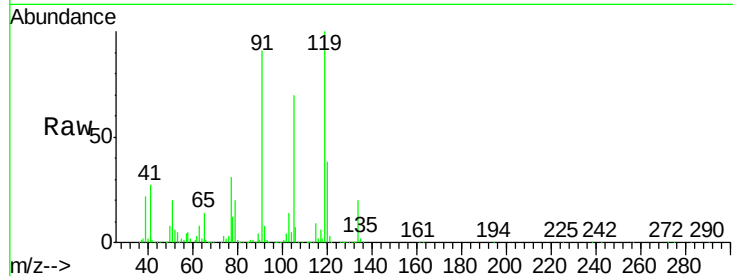
ClientSampleId :

VL0912ABS01

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 119   | Resp: | 3137297 |
| Ion      | Ratio | Lower | Upper   |
| 119      | 100   |       |         |
| 91       | 93.1  | 72.8  | 109.2   |
| 134      | 20.0  | 15.8  | 23.8    |

Manual Integrations  
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9/14/2019 12:09:47 AM



#66

Benzyl Chloride

Concen: 9.099 ppbv

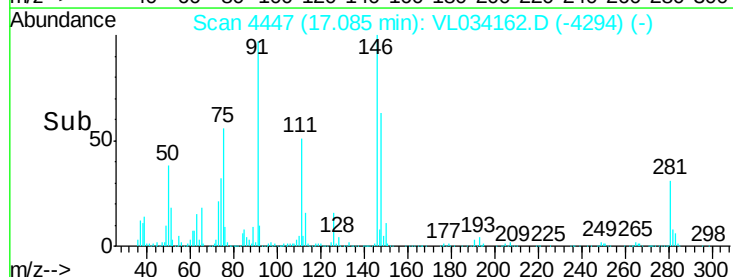
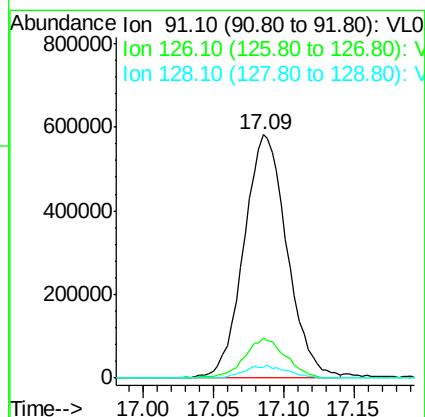
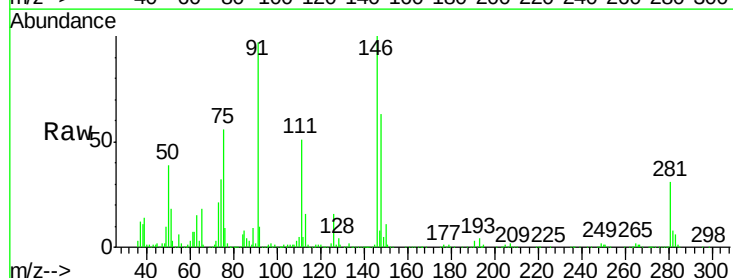
RT: 17.09 min Scan# 4447

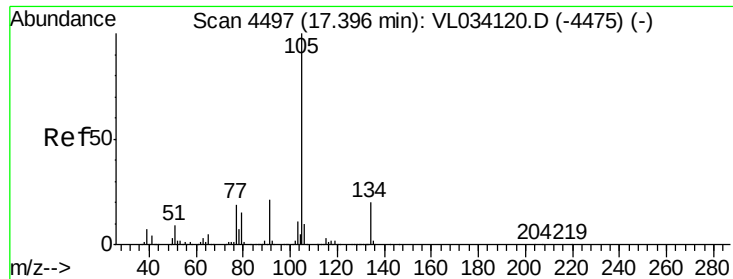
Delta R.T. -0.01 min

Lab File: VL034162.D

Acq: 12 Sep 2019 17:49

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 91    | Resp: | 1237479 |
| Ion      | Ratio | Lower | Upper   |
| 91       | 100   |       |         |
| 126      | 16.2  | 13.7  | 20.5    |
| 128      | 5.1   | 4.2   | 6.4     |





#67

sec-Butylbenzene

Concen: 8.643 ppbv

RT: 17.39 min Scan# 4542

Delta R.T. -0.01 min

Lab File: VL034162.D

Acq: 12 Sep 2019 17:49

Instrument :

MSVOA\_L

ClientSampleId :

VL0912ABS01

Tot Ion: 105 Resp: 4584957

Ion Ratio Lower Upper

105 100

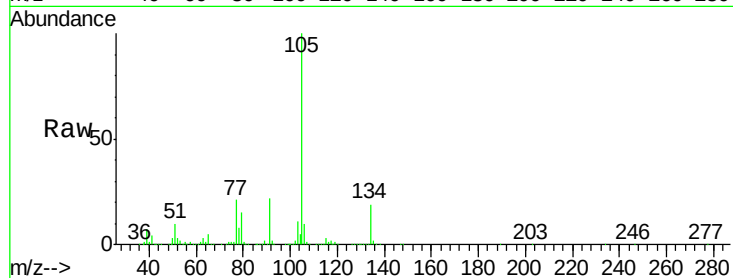
134 18.2 15.0 22.4

Manual Integrations

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

2000000

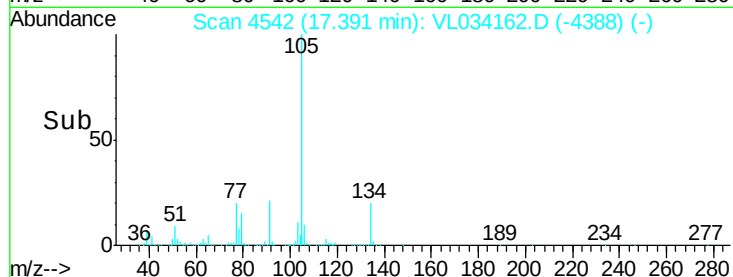
1500000

1000000

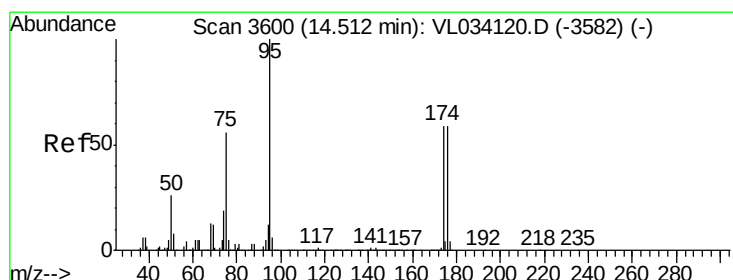
500000

0

Time-->



Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.507 ppbv

RT: 14.51 min Scan# 3645

Delta R.T. -0.01 min

Lab File: VL034162.D

Acq: 12 Sep 2019 17:49

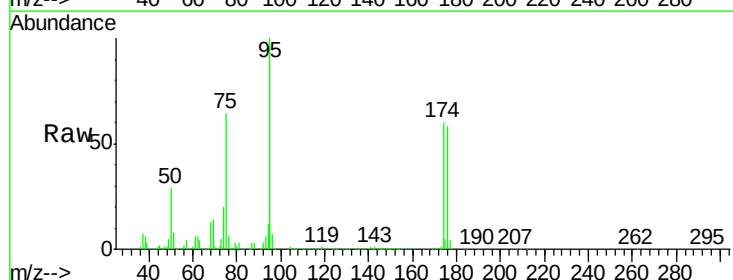
Tgt Ion: 95 Resp: 1916339

Ion Ratio Lower Upper

95 100

174 59.2 48.1 72.1

175 4.4 3.5 5.3



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

1000000

800000

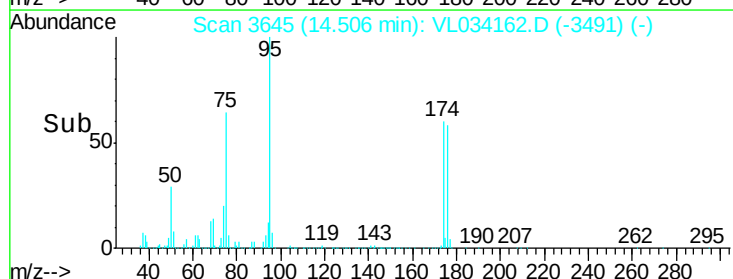
600000

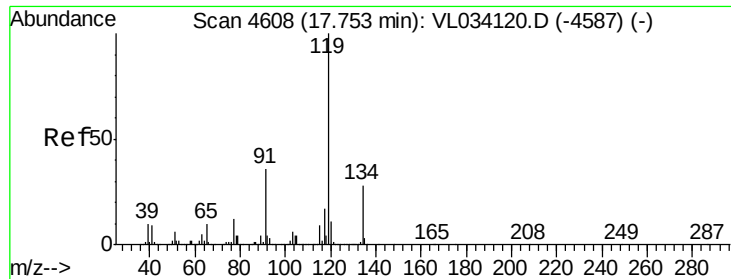
400000

200000

0

Time-->





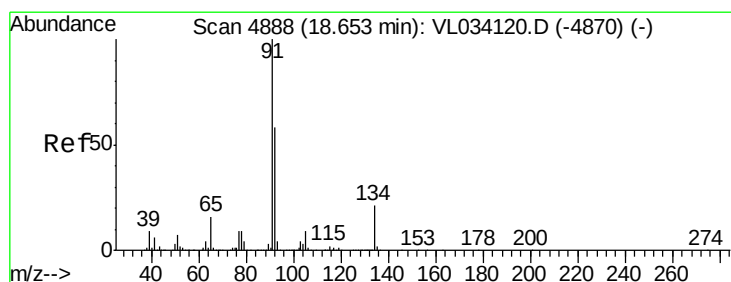
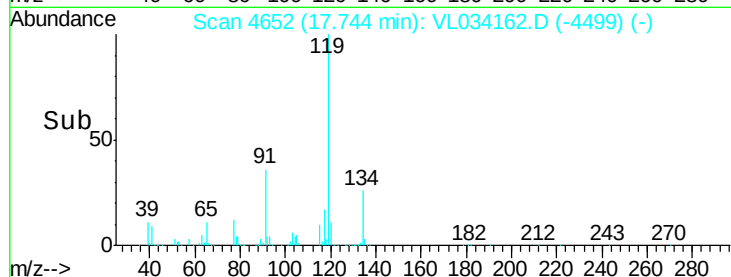
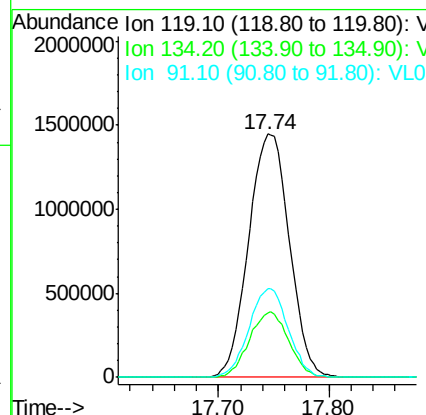
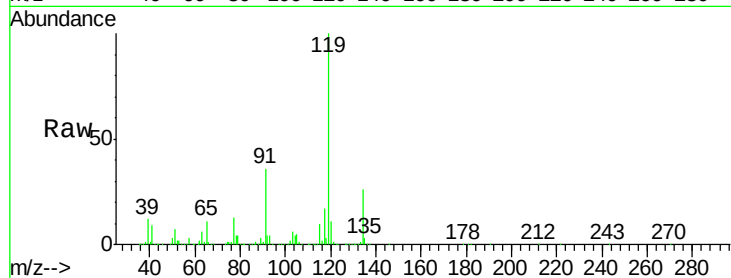
#69  
 p-Isopropyltoluene  
 Concen: 8.746 ppbv  
 RT: 17.74 min Scan# 4652  
 Delta R.T. -0.01 min  
 Lab File: VL034162.D  
 Acq: 12 Sep 2019 17:49

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0912ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 26.0  | 20.8  | 31.2  |
| 91      | 35.0  | 27.2  | 40.8  |

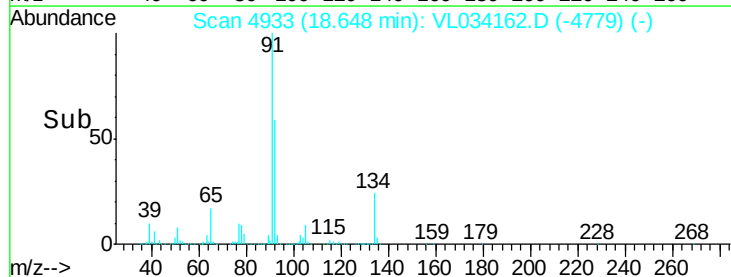
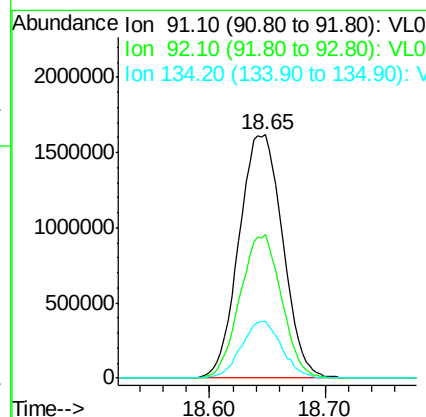
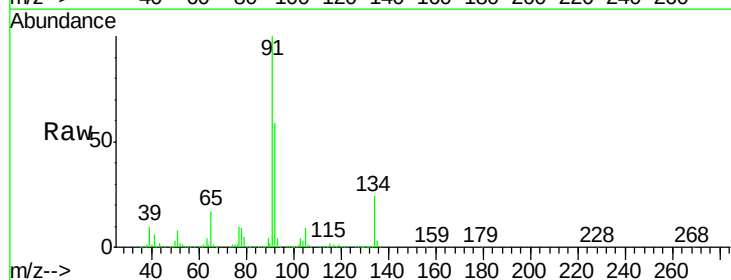
Manual Integrations  
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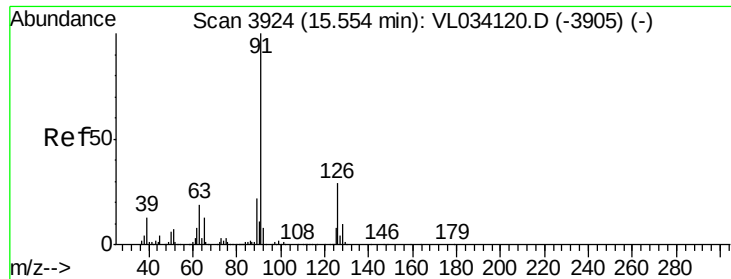
MMDadoda  
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#70  
 n-Butylbenzene  
 Concen: 8.810 ppbv m  
 RT: 18.65 min Scan# 4933  
 Delta R.T. -0.01 min  
 Lab File: VL034162.D  
 Acq: 12 Sep 2019 17:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 0.0   | 45.3  | 67.9# |
| 134     | 0.0   | 17.4  | 26.0# |





#71

2-Chlorotoluene

Concen: 8.834 ppbv

RT: 15.55 min Scan# 3968

Delta R.T. -0.01 min

Lab File: VL034162.D

Acq: 12 Sep 2019 17:49

Instrument :

MSVOA\_L

ClientSampleId :

VL0912ABS01

Tot Ion: 91 Resp: 3084591

Ion Ratio Lower Upper

91 100

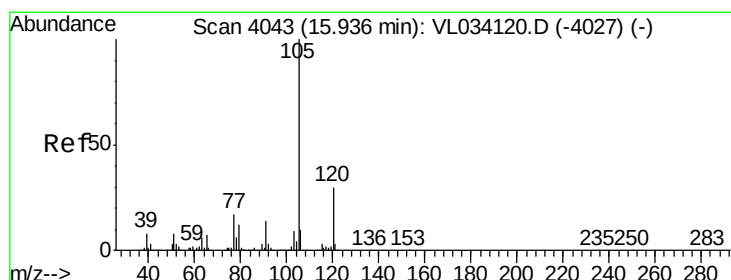
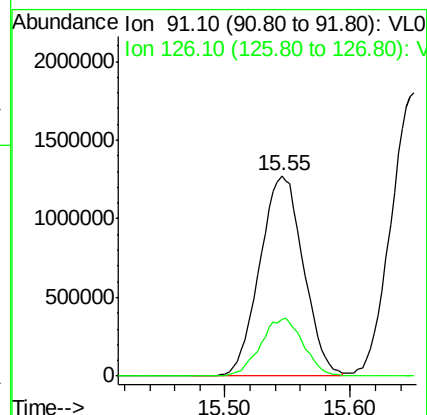
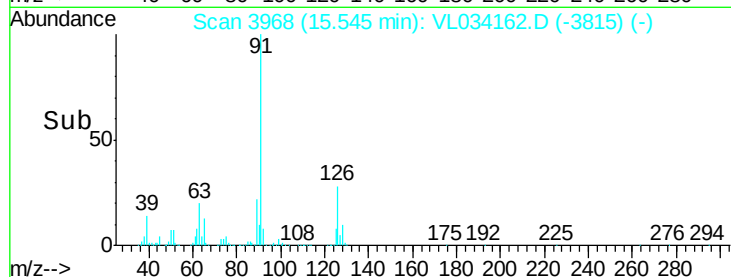
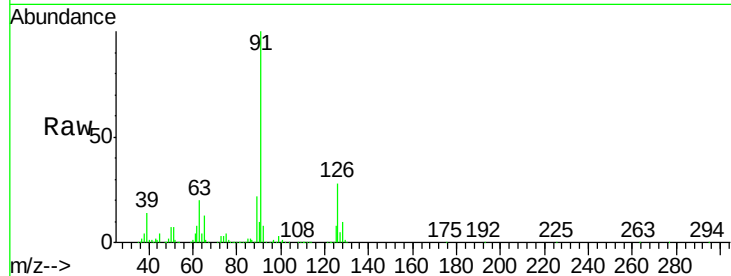
126 28.5 11.4 45.4

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#72

4-Ethyltoluene

Concen: 8.769 ppbv

RT: 15.93 min Scan# 4089

Delta R.T. -0.00 min

Lab File: VL034162.D

Acq: 12 Sep 2019 17:49

Tgt Ion: 105 Resp: 3250088

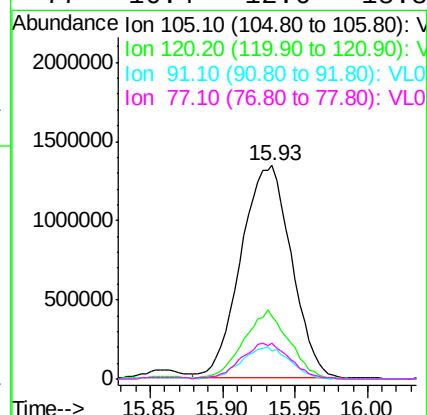
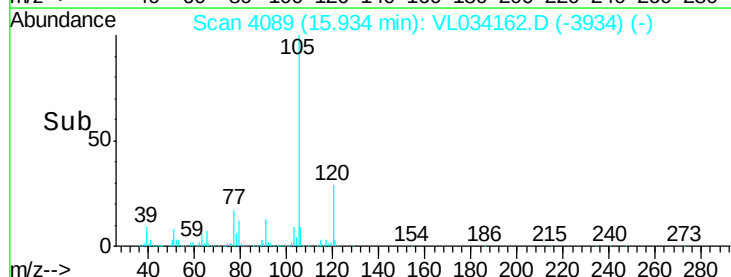
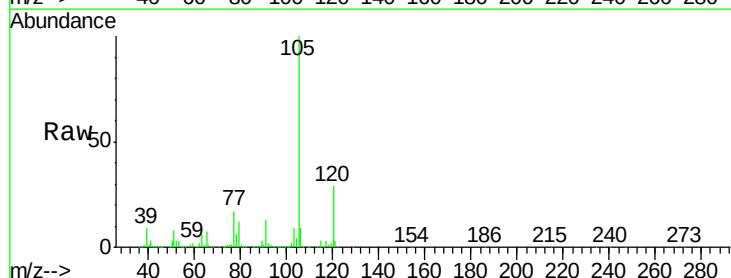
Ion Ratio Lower Upper

105 100

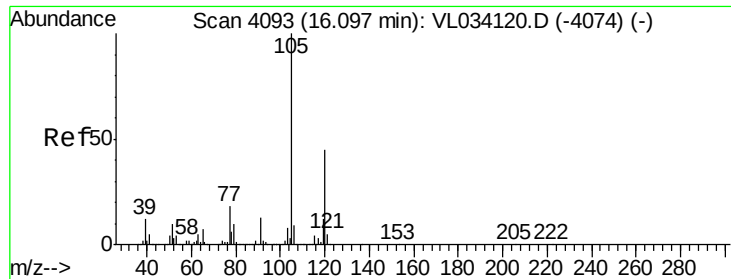
120 29.2 23.8 35.6

91 14.3 11.4 17.0

77 16.4 12.6 18.8







#73

1,3,5-Trimethylbenzene

Concen: 8.723 ppbv

RT: 16.09 min Scan# 4137

Delta R.T. -0.01 min

Lab File: VL034162.D

Acq: 12 Sep 2019 17:49

Instrument :

MSVOA\_L

ClientSampled :

VL0912ABS01

Tot Ion:105 Resp: 3142459

Ion Ratio Lower Upper

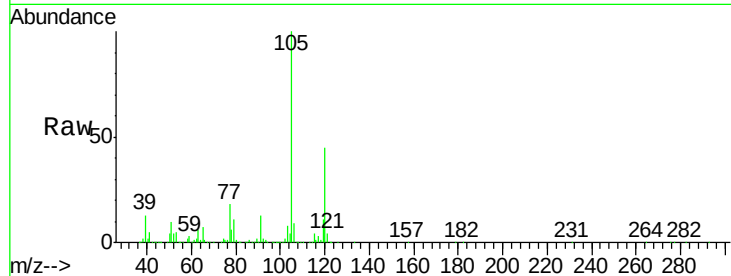
105 100

120 44.8 35.8 53.8

Manual Integrations  
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

1500000

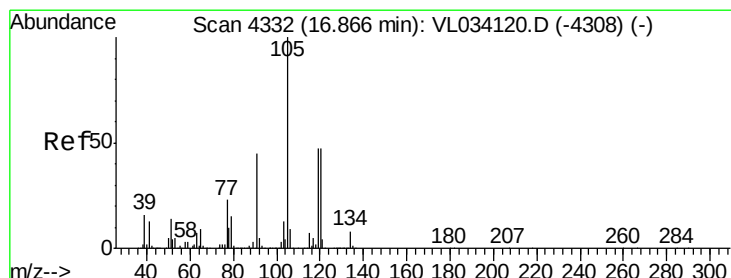
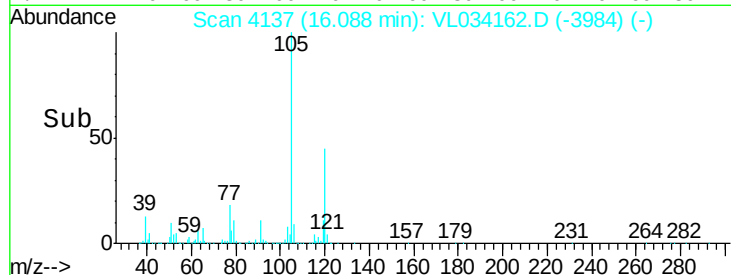
1000000

500000

0

16.09

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 8.401 ppbv

RT: 16.86 min Scan# 4376

Delta R.T. -0.01 min

Lab File: VL034162.D

Acq: 12 Sep 2019 17:49

Tgt Ion:105 Resp: 3116131

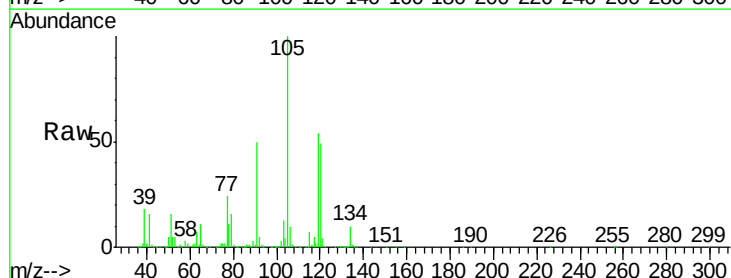
Ion Ratio Lower Upper

105 100

120 48.4 37.7 56.5

91 49.7 36.2 54.2

77 24.0 18.5 27.7



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

2000000

1500000

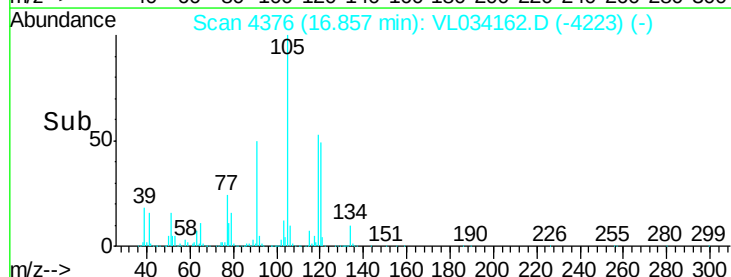
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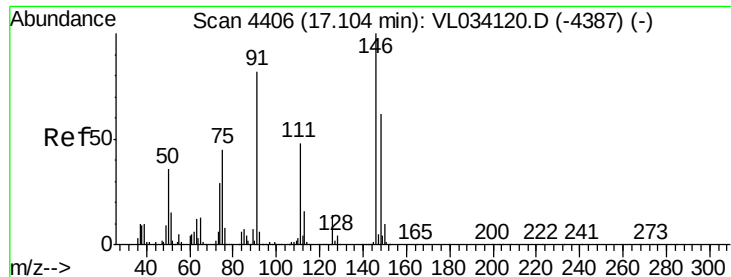
500000

0

16.86

Time-->





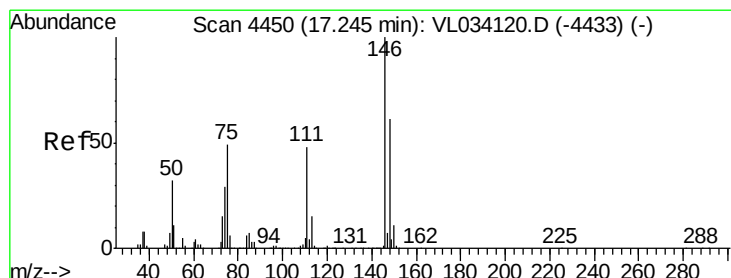
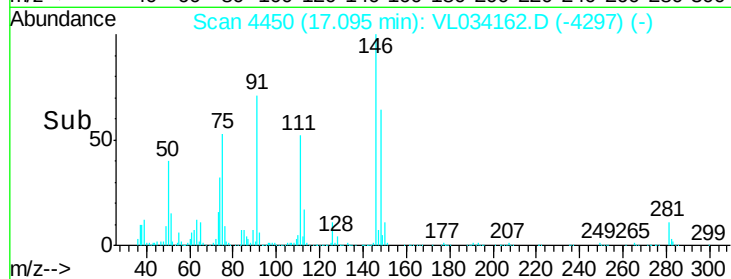
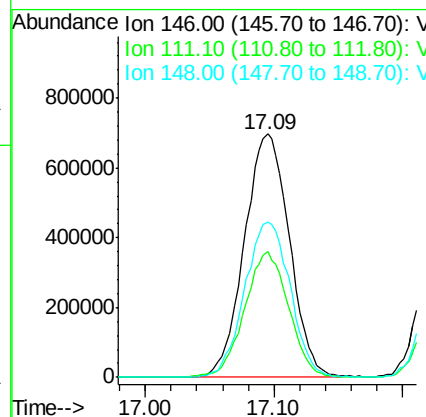
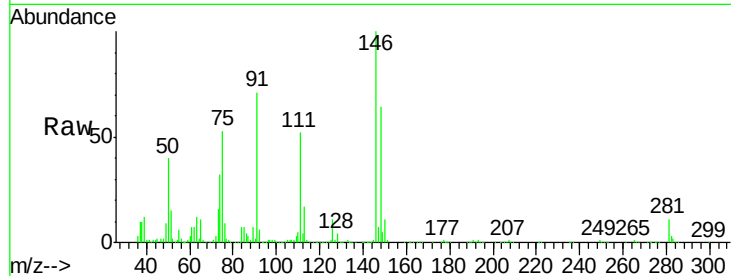
#75  
 1,3-Dichlorobenzene  
 Concen: 8.575 ppbv  
 RT: 17.09 min Scan# 4450  
 Delta R.T. -0.01 min  
 Lab File: VL034162.D  
 Acq: 12 Sep 2019 17:49

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0912ABS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 50.9  | 24.9  | 74.7  |
| 148     | 65.2  | 32.5  | 97.5  |

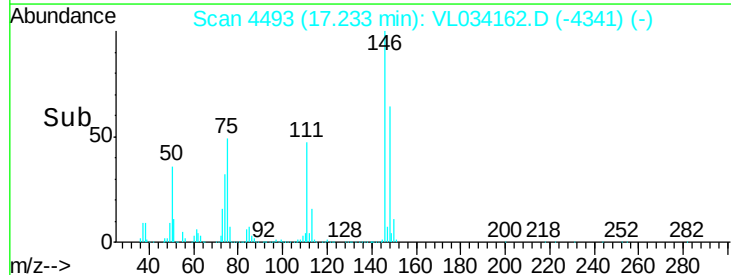
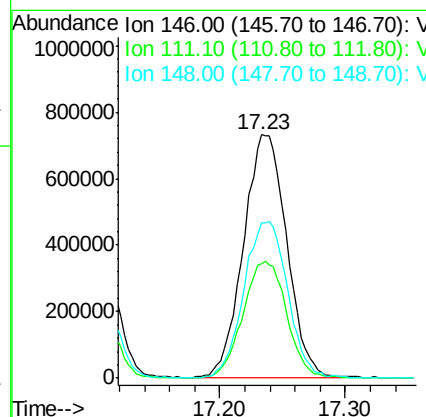
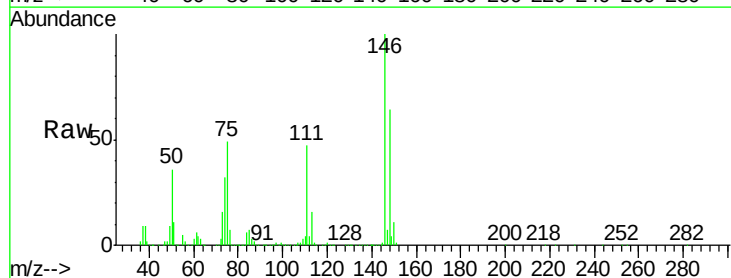
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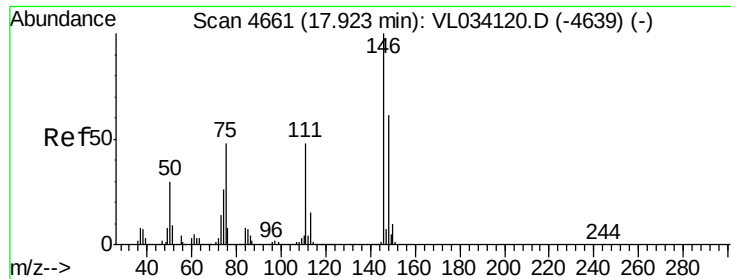
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#76  
 1,4-Dichlorobenzene  
 Concen: 8.470 ppbv  
 RT: 17.23 min Scan# 4493  
 Delta R.T. -0.01 min  
 Lab File: VL034162.D  
 Acq: 12 Sep 2019 17:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 48.6  | 24.3  | 72.8  |
| 148     | 65.8  | 32.6  | 98.0  |





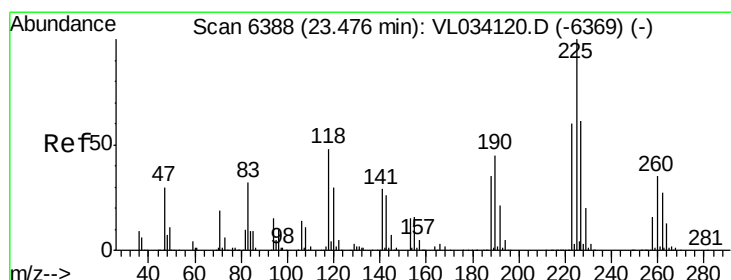
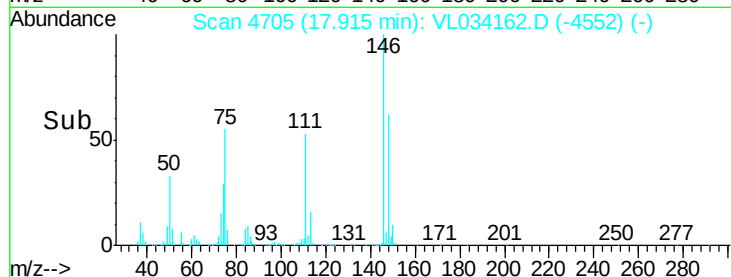
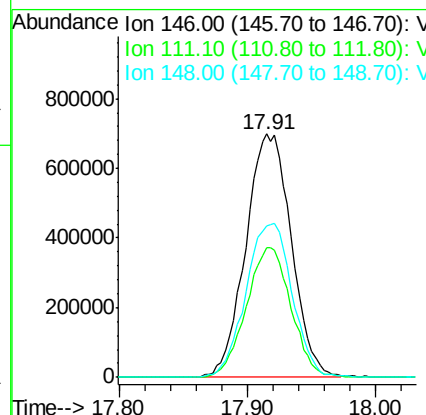
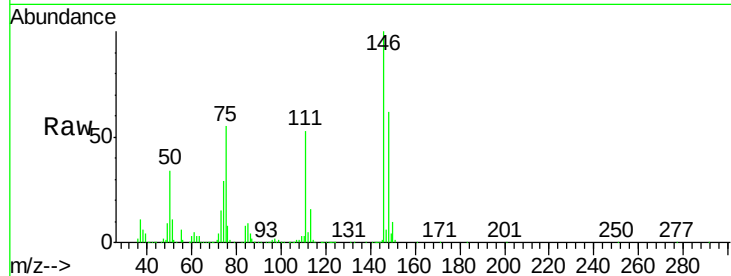
#77  
 1,2-Dichlorobenzene  
 Concen: 8.567 ppbv m  
 RT: 17.91 min Scan# 4705  
 Delta R.T. -0.01 min  
 Lab File: VL034162.D  
 Acq: 12 Sep 2019 17:49

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0912ABS01

Tot Ion:146 Resp: 1723835  
 Ion Ratio Lower Upper  
 146 100  
 111 52.3 25.1 75.4  
 148 0.0 32.0 96.2#

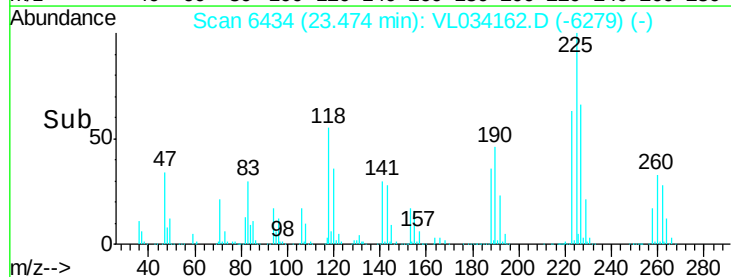
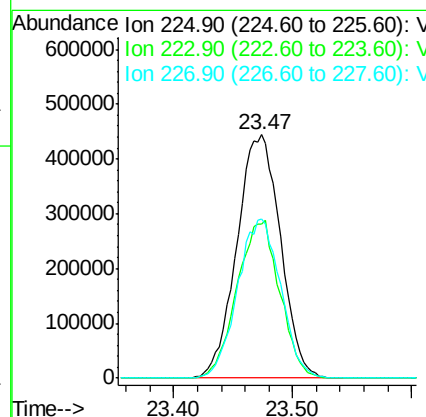
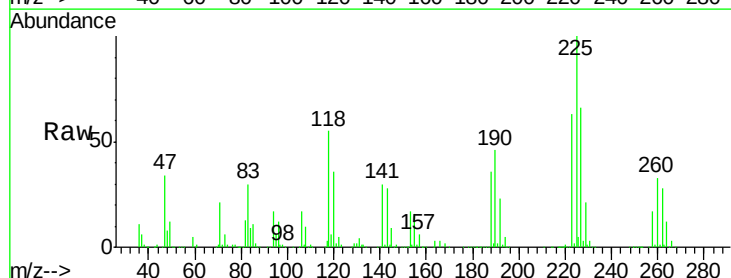
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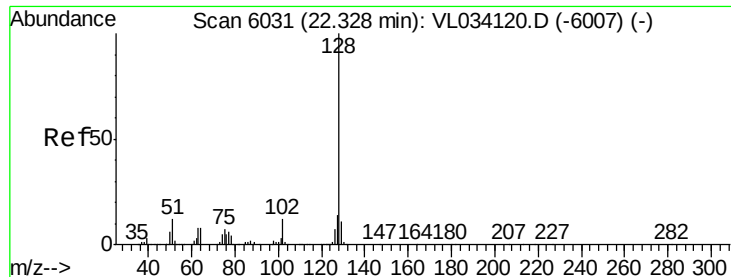
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#78  
 Hexachloro-1,3-Butadiene  
 Concen: 8.172 ppbv  
 RT: 23.47 min Scan# 6434  
 Delta R.T. -0.00 min  
 Lab File: VL034162.D  
 Acq: 12 Sep 2019 17:49

Tgt Ion:225 Resp: 1121754  
 Ion Ratio Lower Upper  
 225 100  
 223 63.6 50.3 75.5  
 227 64.9 50.9 76.3





#79

Naphthalene

Concen: 8.910 ppbv

RT: 22.32 min Scan# 6076

Delta R.T. -0.01 min

Lab File: VL034162.D

Acq: 12 Sep 2019 17:49

Instrument :

MSVOA\_L

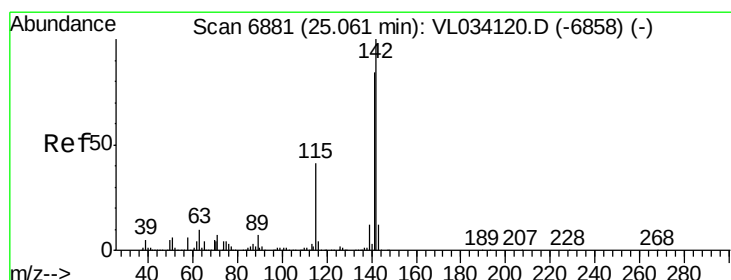
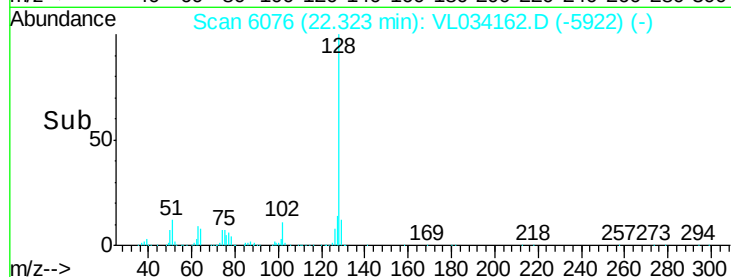
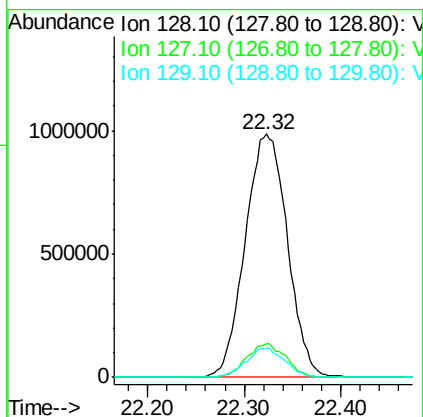
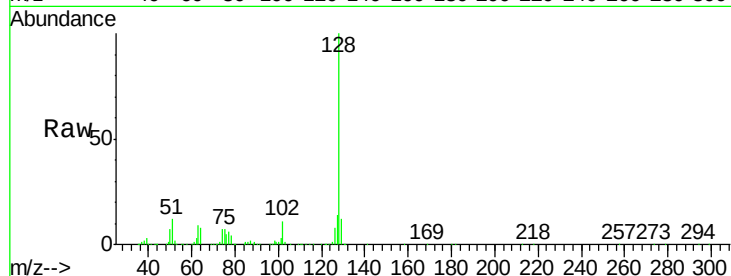
ClientSampleId :

VL0912ABS01

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 128   | Resp: | 2987772 |
| Ion      | Ratio | Lower | Upper   |
| 128      | 100   |       |         |
| 127      | 14.0  | 10.9  | 16.3    |
| 129      | 11.6  | 8.5   | 12.7    |

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#80

Naphthalene, 2-methyl-

Concen: 4.775 ppbv

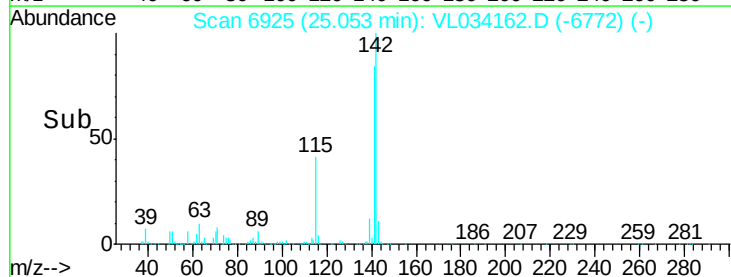
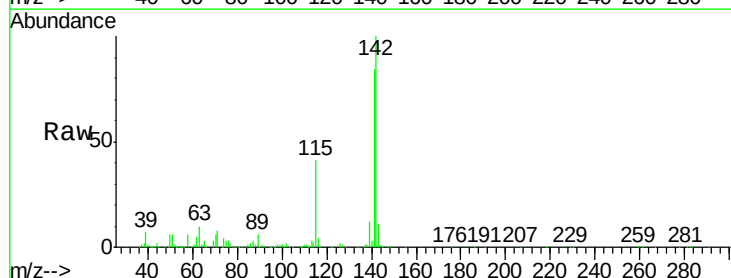
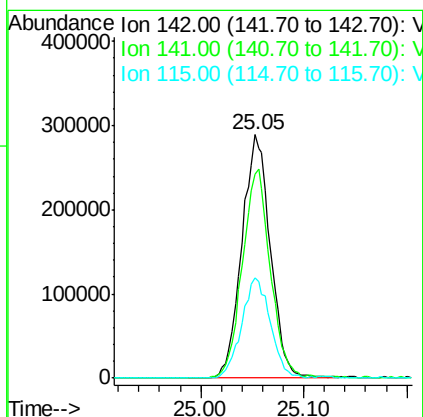
RT: 25.05 min Scan# 6925

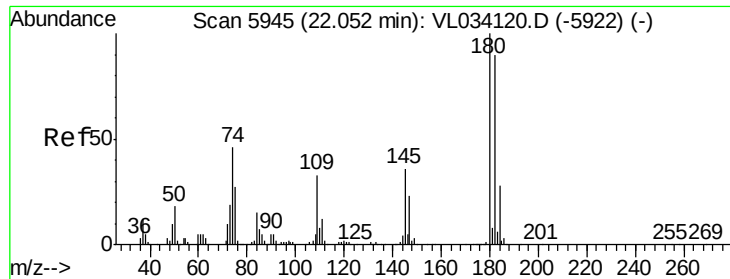
Delta R.T. -0.01 min

Lab File: VL034162.D

Acq: 12 Sep 2019 17:49

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 142   | Resp: | 555823 |
| Ion      | Ratio | Lower | Upper  |
| 142      | 100   |       |        |
| 141      | 84.9  | 67.6  | 101.4  |
| 115      | 42.0  | 34.6  | 52.0   |





#81  
 1,2,4-Trichlorobenzene  
 Concen: 8.257 ppbv  
 RT: 22.05 min Scan# 5991  
 Delta R.T. -0.00 min  
 Lab File: VL034162.D  
 Acq: 12 Sep 2019 17:49

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0912ABS01

|           |       |       |         |
|-----------|-------|-------|---------|
| Tot Ion:  | 180   | Resp: | 1506652 |
| Ion Ratio | Lower | Upper |         |
| 180       | 100   |       |         |
| 182       | 96.2  | 77.0  | 115.4   |
| 184       | 31.2  | 25.5  | 38.3    |

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