

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL031219\  
 Data File : VL033280.D  
 Acq On : 12 Mar 2019 10:04  
 Operator : SY/AP  
 Sample : VSTDICV010  
 Misc : 400ml/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL031219

Manual Integrations  
 APPROVED

MMDadoda  
 3/14/2019 5:05:56 AM

Quant Time: Mar 13 08:04:36 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL031219AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Mar 14 08:04:36 2019  
 QLast Update : Wed Mar 13 07:17:55 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.76  | 49   | 908463   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.29  | 114  | 2139836  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.24 | 117  | 2230681m | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.58  | 95    | 1723968  | 10.01    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 100.10% |

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 3.08 | 85   | 1633194  | 8.902  | ppbv  | 99     |
| 3) Chlorodifluoromethane       | 3.01 | 51   | 1021806  | 8.480  | ppbv  | 100    |
| 4) Chloromethane               | 3.17 | 50   | 552684   | 8.579  | ppbv  | 100    |
| 5) Vinyl Chloride              | 3.29 | 62   | 525237   | 8.348  | ppbv  | 97     |
| 6) Bromomethane                | 3.51 | 94   | 336858   | 8.765  | ppbv  | 98     |
| 7) Chloroethane                | 3.60 | 64   | 200154   | 8.797  | ppbv  | 99     |
| 8) Dichlorotetrafluoroethane   | 3.22 | 85   | 1291485  | 8.327  | ppbv  | 100    |
| 9) Propene                     | 3.04 | 41   | 464870   | 8.462  | ppbv  | 99     |
| 10) Heptane                    | 8.25 | 43   | 1184033  | 9.569  | ppbv  | 100    |
| 11) Trichlorofluoromethane     | 4.00 | 101  | 1505511  | 8.290  | ppbv  | 97     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.55 | 101  | 974529   | 9.376  | ppbv  | 100    |
| 13) Ethanol                    | 3.65 | 45   | 96627    | 5.765  | ppbv  | 95     |
| 14) Bromoethene                | 3.79 | 108  | 423682   | 8.740  | ppbv  | 99     |
| 15) Acetone                    | 3.90 | 43   | 1084517  | 7.782  | ppbv  | 100    |
| 16) 1,3-Butadiene              | 3.36 | 39   | 438123   | 8.707  | ppbv  | 99     |
| 17) tert-Butyl alcohol         | 4.36 | 59   | 180125   | 9.632  | ppbv  | 100    |
| 18) 1,1-Dichloroethene         | 4.35 | 96   | 439603   | 9.555  | ppbv  | 94     |
| 19) Isopropyl Alcohol          | 4.02 | 45   | 629487   | 7.474  | ppbv  | 100    |
| 20) Methylene Chloride         | 4.41 | 84   | 378466   | 8.168  | ppbv  | 96     |
| 21) Allyl Chloride             | 4.48 | 41   | 696402   | 10.052 | ppbv  | 100    |
| 22) trans-1,2-Dichloroethene   | 4.96 | 96   | 452692   | 9.227  | ppbv  | 96     |
| 23) Vinyl Acetate              | 5.15 | 43   | 1730278  | 9.909  | ppbv  | 98     |
| 24) 1,1-Dichloroethane         | 5.09 | 63   | 1156647  | 9.134  | ppbv  | 99     |
| 25) Ethyl Acetate              | 5.77 | 43   | 1970892  | 9.178  | ppbv  | 100    |
| 26) Hexane                     | 5.78 | 57   | 887427   | 8.804  | ppbv  | 99     |
| 27) Carbon Disulfide           | 4.62 | 76   | 1102058  | 10.305 | ppbv  | 99     |
| 28) Methyl tert-Butyl Ether    | 5.11 | 73   | 1368935  | 9.570  | ppbv  | 100    |
| 29) Chloroform                 | 5.85 | 83   | 1468180  | 9.574  | ppbv  | 99     |
| 30) Cyclohexane                | 7.25 | 84   | 752650   | 9.631  | ppbv  | 98     |
| 31) cis-1,2-Dichloroethene     | 5.64 | 61   | 927816   | 9.602  | ppbv  | 99     |
| 32) 1,1,1-Trichloroethane      | 6.62 | 97   | 1437635  | 9.621  | ppbv  | 99     |
| 34) 2-Butanone                 | 5.33 | 43   | 1316837  | 9.306  | ppbv  | 99     |
| 35) Carbon Tetrachloride       | 7.13 | 117  | 1492275  | 9.544  | ppbv  | 99     |
| 36) Benzene                    | 7.00 | 78   | 1856800  | 9.409  | ppbv  | 99     |
| 37) 1,2-Dichloroethane         | 6.41 | 62   | 1107117  | 9.354  | ppbv  | 100    |
| 38) Trichloroethene            | 7.96 | 130  | 698860   | 9.085  | ppbv  | 99     |
| 39) 1,2-Dichloropropane        | 7.74 | 63   | 712359   | 9.592  | ppbv  | 97     |
| 40) 1,4-Dioxane                | 7.95 | 88   | 224977   | 8.049  | ppbv  | # 1    |
| 41) Tetrahydrofuran            | 6.14 | 42   | 751942   | 9.572  | ppbv  | 99     |
| 42) Bromodichloromethane       | 7.92 | 83   | 1614215  | 9.906  | ppbv  | 98     |
| 43) Methyl Methacrylate        | 8.14 | 69   | 767908   | 9.983  | ppbv  | 98     |

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 Sample : VSTDICV010  
 Misc : 400ml/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL031219

Manual Integrations  
 APPROVED

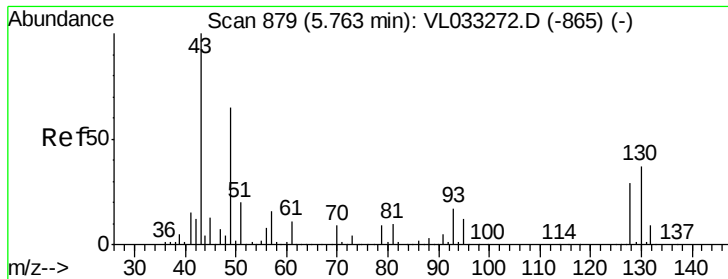
MMDadoda  
 3/14/2019 5:05:56 AM

Quant Time: Mar 13 08:04:36 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL031219AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Mar 13 2019  
 QLast Update : Wed Mar 13 07:17:55 2019  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.99  | 57   | 3075963  | 9.176  | ppbv   | 100      |
| 45) t-1,3-Dichloropropene     | 9.42  | 75   | 1027856  | 10.870 | ppbv   | 97       |
| 46) cis-1,3-Dichloropropene   | 8.84  | 75   | 1204993  | 10.872 | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 9.62  | 97   | 753108   | 9.497  | ppbv   | 98       |
| 48) Dibromochloromethane      | 10.45 | 129  | 1346820  | 10.358 | ppbv   | 99       |
| 49) Bromoform                 | 13.20 | 173  | 1184123  | 11.236 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.87  | 43   | 1952355  | 9.668  | ppbv   | 99       |
| 51) 2-Hexanone                | 10.27 | 43   | 1591787  | 10.326 | ppbv   | 99       |
| 52) Tetrachloroethene         | 11.37 | 164  | 681365   | 9.419  | ppbv   | 98       |
| 53) Toluene                   | 9.95  | 91   | 2246585  | 9.876  | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 10.76 | 107  | 1215340  | 9.971  | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 12.28 | 131  | 945580   | 9.972  | ppbv # | 60       |
| 57) Chlorobenzene             | 12.30 | 112  | 1612625  | 9.586  | ppbv   | 98       |
| 58) Ethyl Benzene             | 12.86 | 91   | 3038532  | 9.912  | ppbv   | 98       |
| 59) m/p-Xylene                | 13.13 | 91   | 5069120m | 19.774 | ppbv   |          |
| 60) o-Xylene                  | 13.85 | 91   | 2437354  | 9.890  | ppbv   | 99       |
| 61) Styrene                   | 13.69 | 104  | 1863062  | 10.614 | ppbv   | 100      |
| 62) Isopropylbenzene          | 14.83 | 105  | 3420746  | 9.961  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.84 | 83   | 1653207  | 10.007 | ppbv   | 99       |
| 64) n-propylbenzene           | 15.72 | 120  | 863919   | 10.224 | ppbv   | 98       |
| 65) tert-Butylbenzene         | 16.91 | 119  | 2954474  | 10.193 | ppbv   | 99       |
| 66) Benzyl Chloride           | 17.16 | 91   | 1526591  | 13.597 | ppbv   | 99       |
| 67) sec-Butylbenzene          | 17.46 | 105  | 4201881  | 10.185 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 17.82 | 119  | 3436458  | 10.311 | ppbv   | 100      |
| 70) n-Butylbenzene            | 18.72 | 91   | 3650363  | 10.200 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 15.62 | 91   | 2650815  | 10.240 | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 16.00 | 105  | 2825510  | 10.614 | ppbv   | 100      |
| 73) 1,3,5-Trimethylbenzene    | 16.16 | 105  | 2661523  | 10.610 | ppbv   | 96       |
| 74) 1,2,4-Trimethylbenzene    | 16.93 | 105  | 2713127  | 10.620 | ppbv   | 97       |
| 75) 1,3-Dichlorobenzene       | 17.17 | 146  | 1562599  | 10.205 | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 17.31 | 146  | 1565492  | 10.339 | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 17.99 | 146  | 1503606  | 9.864  | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 23.55 | 225  | 1215107  | 9.568  | ppbv   | 100      |
| 79) Naphthalene               | 22.42 | 128  | 2977090  | 10.764 | ppbv   | 98       |
| 80) Naphthalene,2-methyl-     | 25.12 | 142  | 1671495  | 22.058 | ppbv   | 100      |
| 81) 1,2,4-Trichlorobenzene    | 22.14 | 180  | 1417404  | 9.735  | ppbv   | 100      |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. 0.00 min

Lab File: VL033280.D

Acq: 12 Mar 2019 10:04

Instrument :

MSVOA\_L

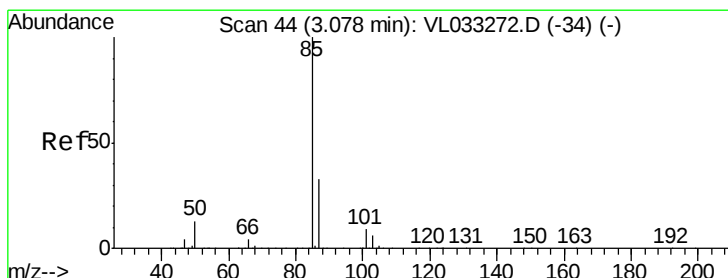
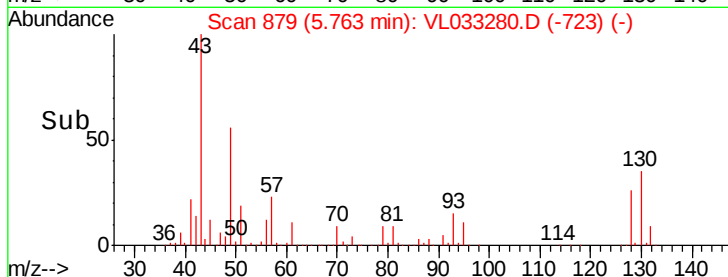
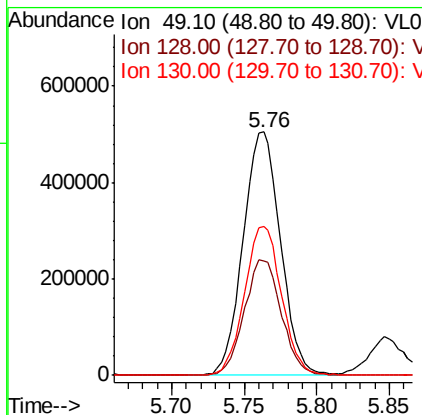
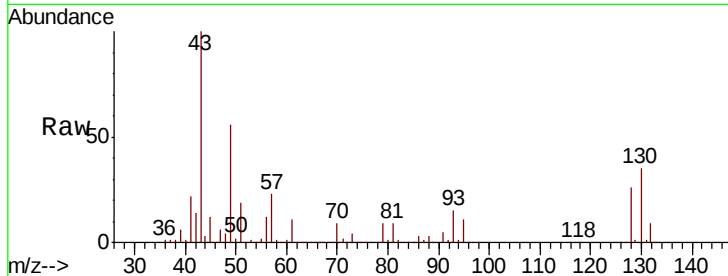
ClientSampleId :

ICVVL031219

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 49      | 100   |       |       |
| 128     | 47.3  | 23.3  | 69.9  |
| 130     | 61.0  | 30.0  | 90.1  |

Manual Integrations  
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#2

Dichlorodifluoromethane

Concen: 8.902 ppbv

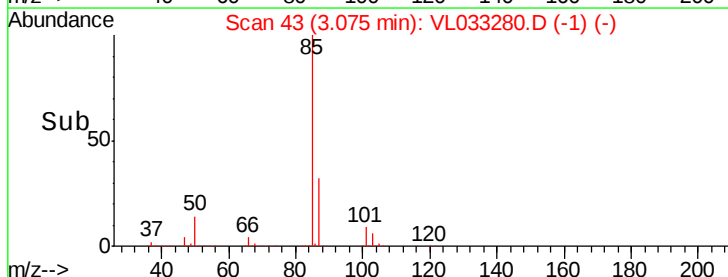
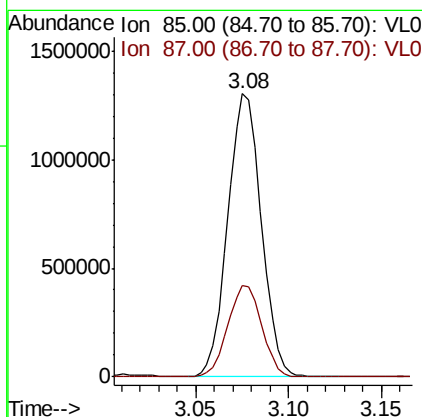
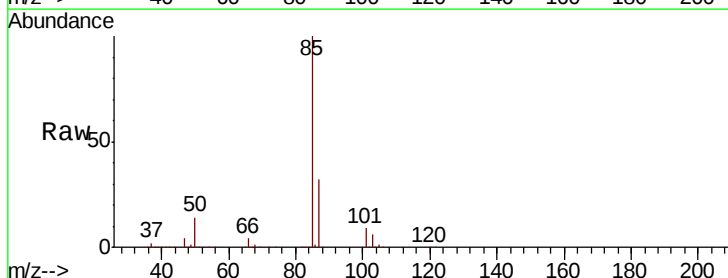
RT: 3.08 min Scan# 43

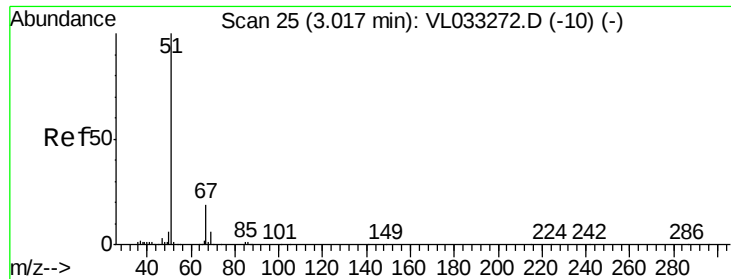
Delta R.T. -0.00 min

Lab File: VL033280.D

Acq: 12 Mar 2019 10:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 85      | 100   |       |       |
| 87      | 32.4  | 26.4  | 39.6  |





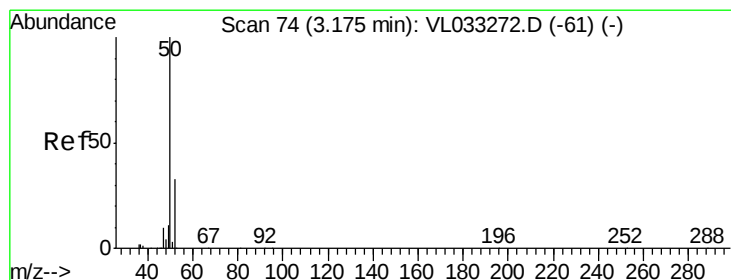
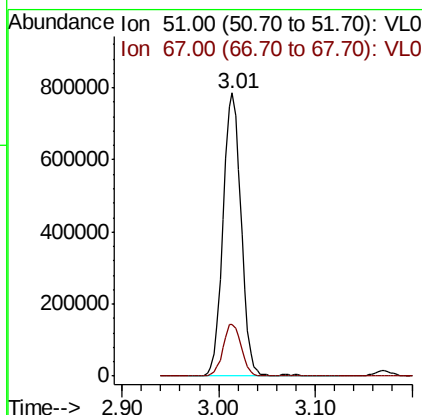
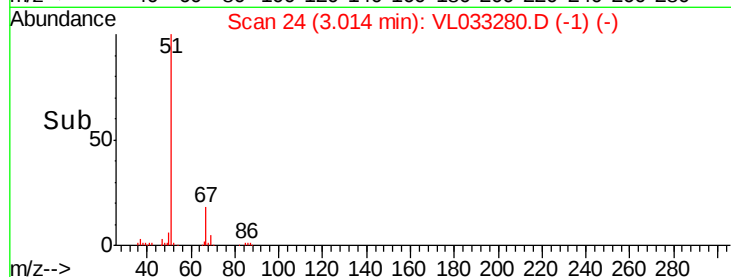
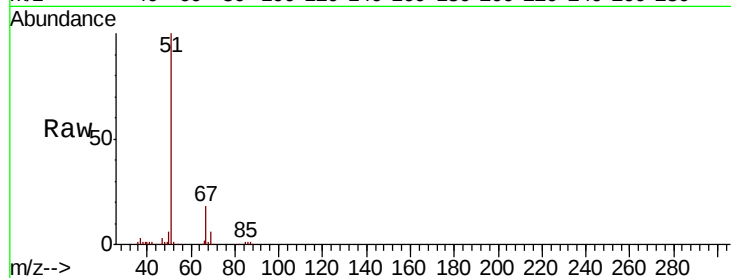
#3  
Chlorodifluoromethane  
Concen: 8.480 ppbv  
RT: 3.01 min Scan# 24  
Delta R.T. -0.00 min  
Lab File: VL033280.D  
Acq: 12 Mar 2019 10:04

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL031219

Tgt Ion: 51 Resp: 1021806  
Ion Ratio Lower Upper  
51 100  
67 18.5 15.0 22.4

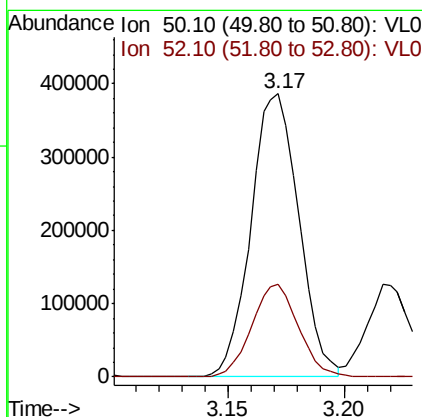
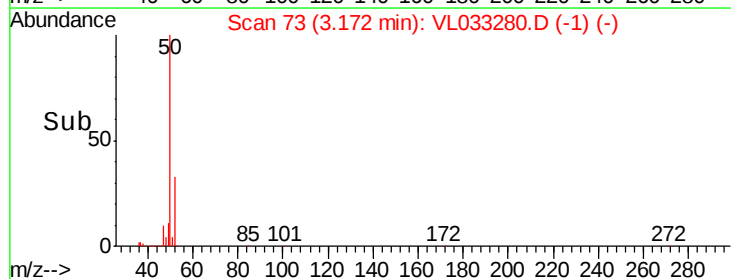
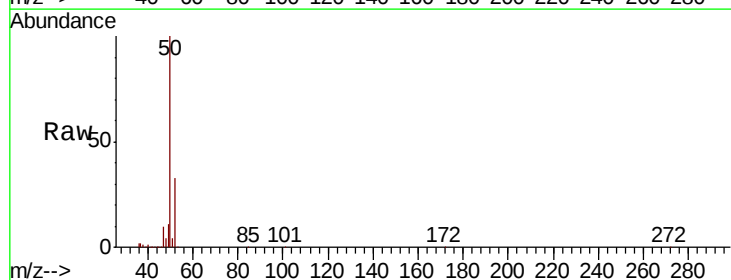
Manual Integrations  
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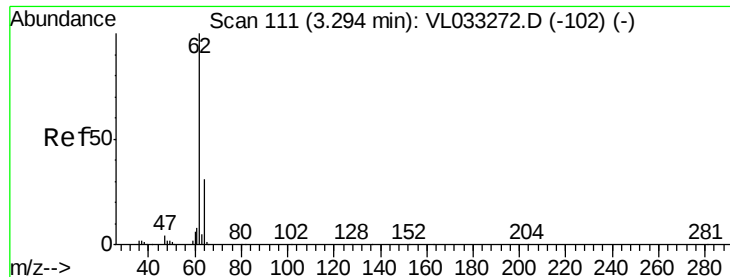
MMDadoda  
3/14/2019 5:05:56 AM



#4  
Chloromethane  
Concen: 8.579 ppbv  
RT: 3.17 min Scan# 73  
Delta R.T. -0.00 min  
Lab File: VL033280.D  
Acq: 12 Mar 2019 10:04

Tgt Ion: 50 Resp: 552684  
Ion Ratio Lower Upper  
50 100  
52 32.9 26.6 39.8





#5

Vinyl Chloride

Concen: 8.348 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033280.D

Acq: 12 Mar 2019 10:04

Instrument :

MSVOA\_L

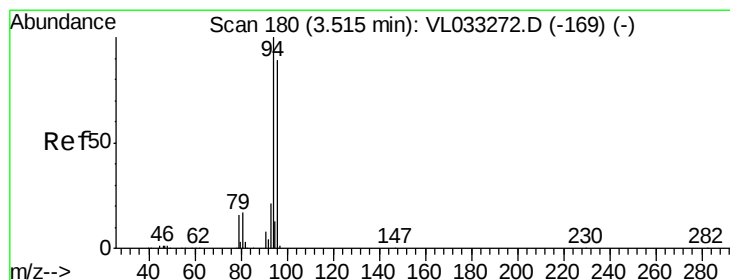
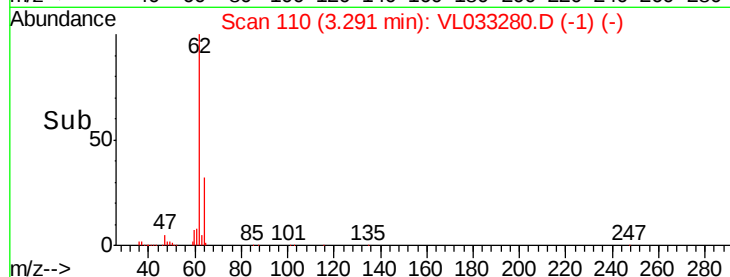
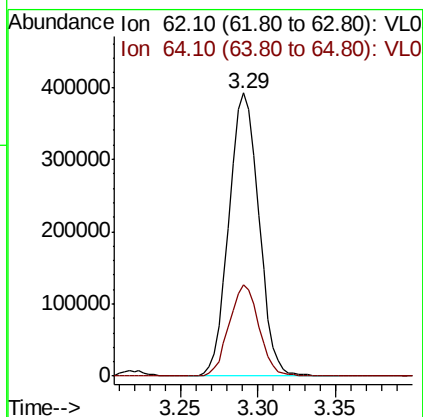
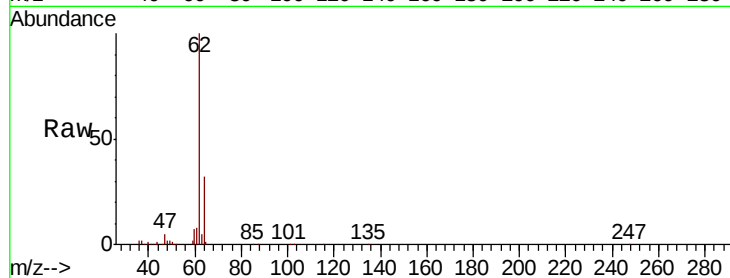
ClientSampleId :

ICVVL031219

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 62      | 100   |       |       |
| 64      | 32.5  | 24.5  | 36.7  |

Manual Integrations  
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3/14/2019 5:05:56 AM



#6

Bromomethane

Concen: 8.765 ppbv

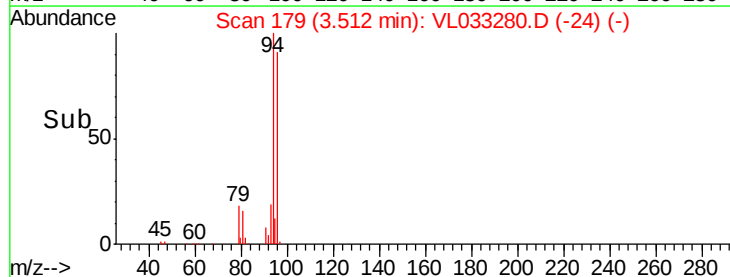
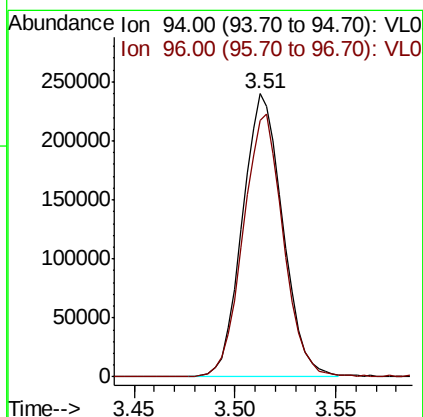
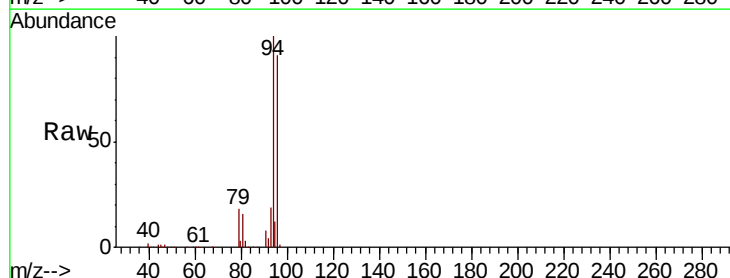
RT: 3.51 min Scan# 179

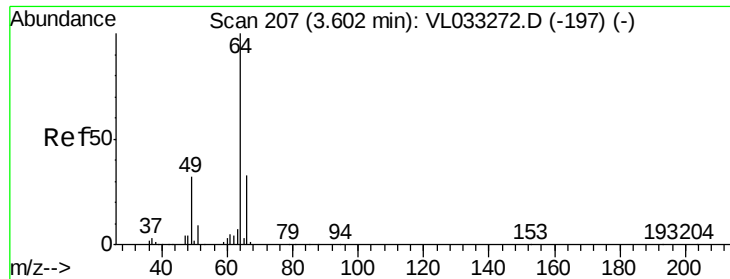
Delta R.T. -0.00 min

Lab File: VL033280.D

Acq: 12 Mar 2019 10:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 94      | 100   |       |       |
| 96      | 90.6  | 71.3  | 106.9 |





#7

Chloroethane

Concen: 8.797 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL033280.D

Acq: 12 Mar 2019 10:04

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL031219

Tgt Ion: 64 Resp: 200154

Ion Ratio Lower Upper

64 100

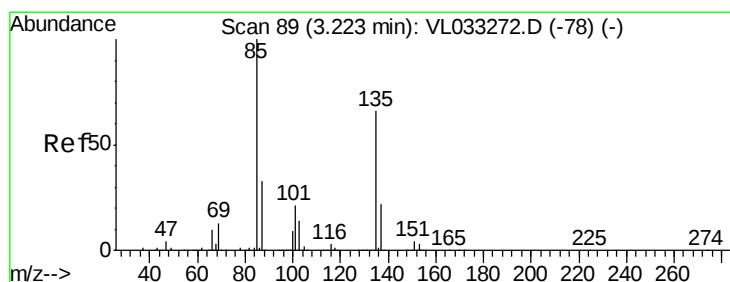
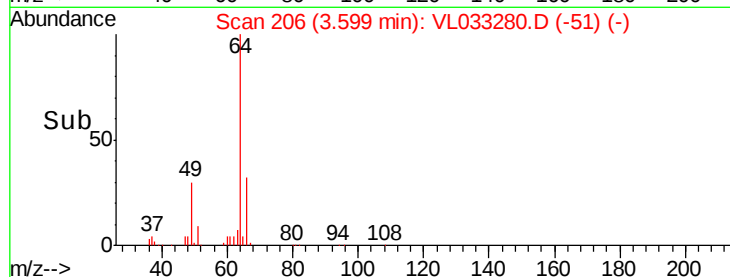
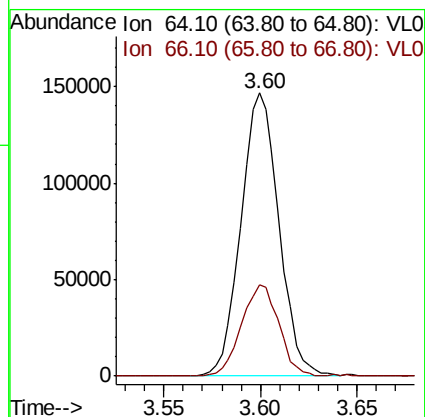
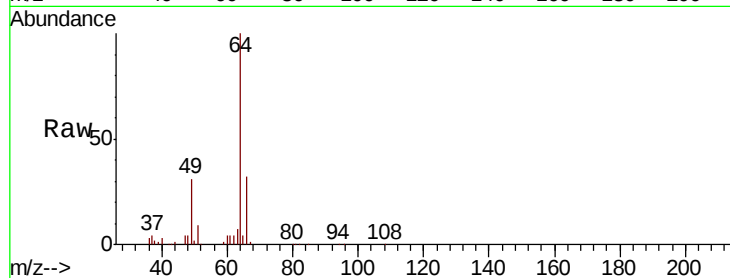
66 32.1 26.2 39.2

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 8.327 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033280.D

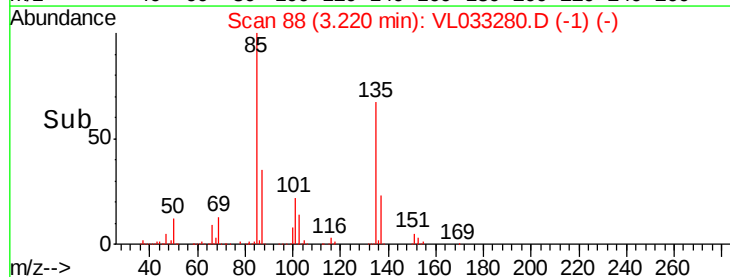
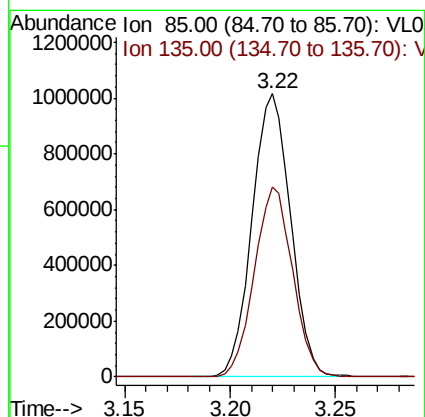
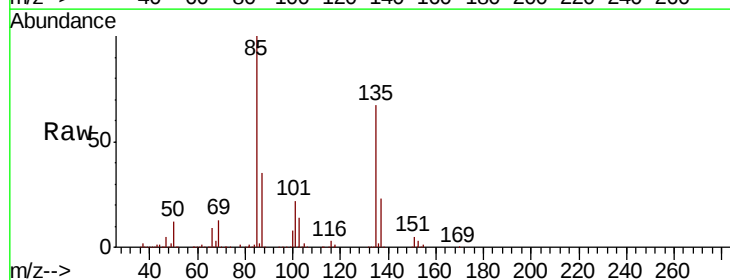
Acq: 12 Mar 2019 10:04

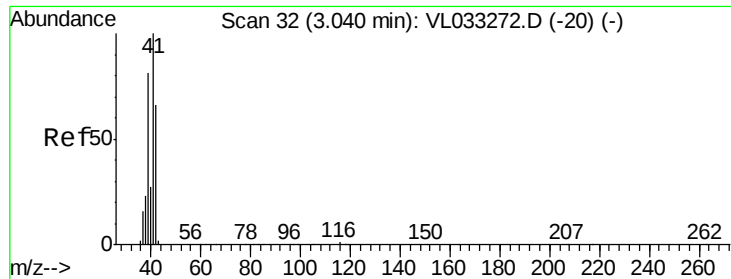
Tgt Ion: 85 Resp: 1291485

Ion Ratio Lower Upper

85 100

135 66.8 53.4 80.2





#9

Propene

Concen: 8.462 ppbv

RT: 3.04 min Scan# 31

Delta R.T. -0.00 min

Lab File: VL033280.D

Acq: 12 Mar 2019 10:04

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL031219

Tgt Ion: 41 Resp: 464870

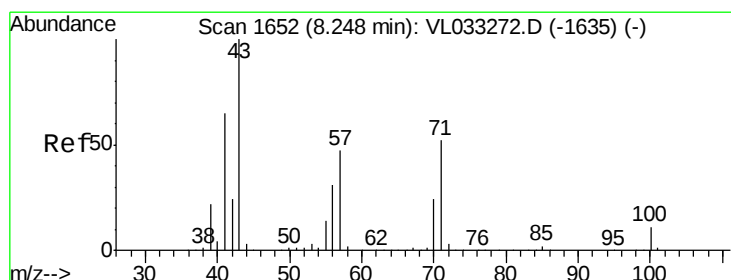
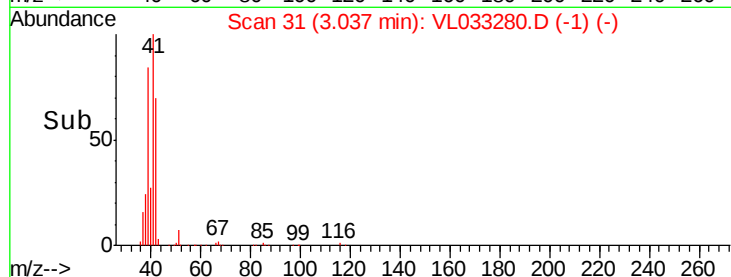
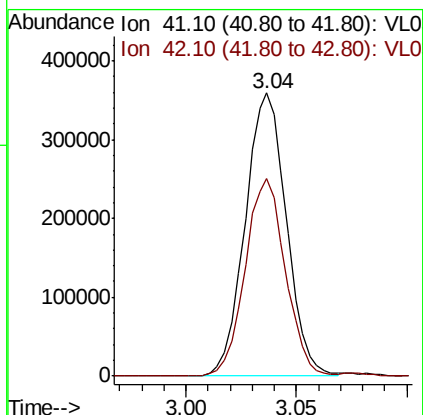
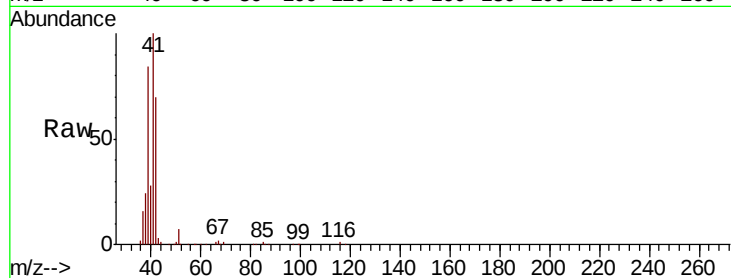
Ion Ratio Lower Upper

41 100

42 69.2 54.6 82.0

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#10

Heptane

Concen: 9.569 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. -0.00 min

Lab File: VL033280.D

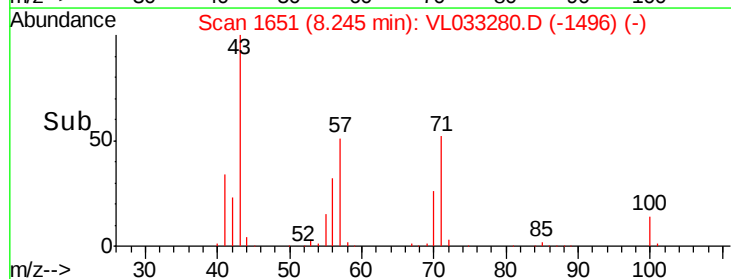
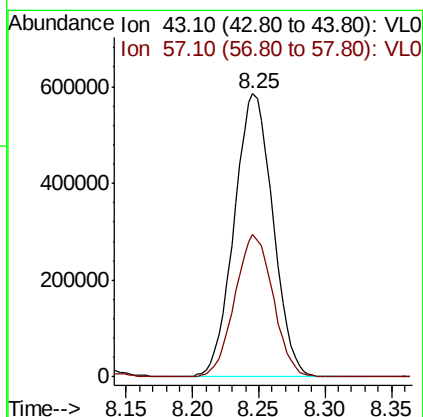
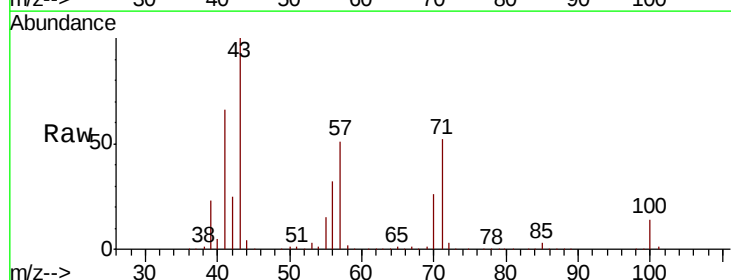
Acq: 12 Mar 2019 10:04

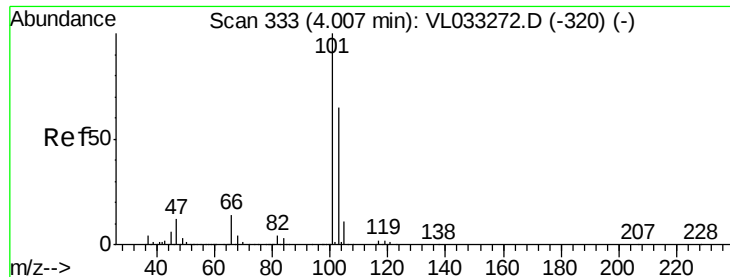
Tgt Ion: 43 Resp: 1184033

Ion Ratio Lower Upper

43 100

57 49.7 39.8 59.8





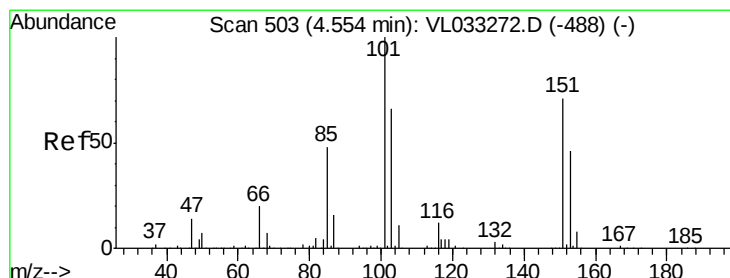
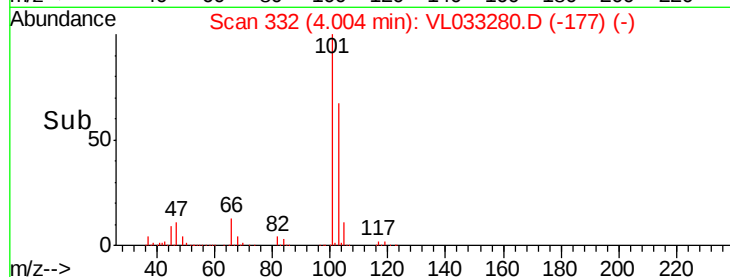
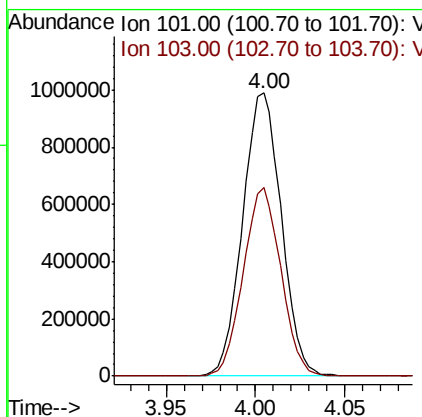
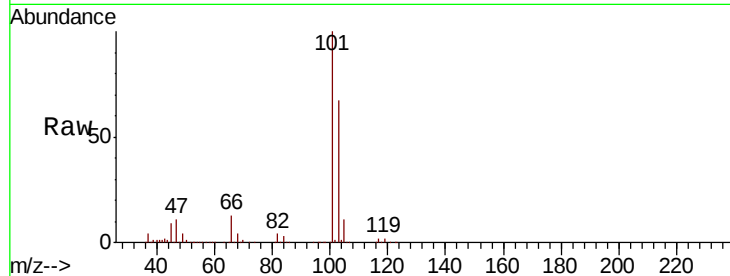
#11  
 Trichlorofluoromethane  
 Concen: 8.290 ppbv  
 RT: 4.00 min Scan# 332  
 Delta R.T. -0.00 min  
 Lab File: VL033280.D  
 Acq: 12 Mar 2019 10:04

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL031219

Tgt Ion:101 Resp: 1505511  
 Ion Ratio Lower Upper  
 101 100  
 103 66.8 51.8 77.8

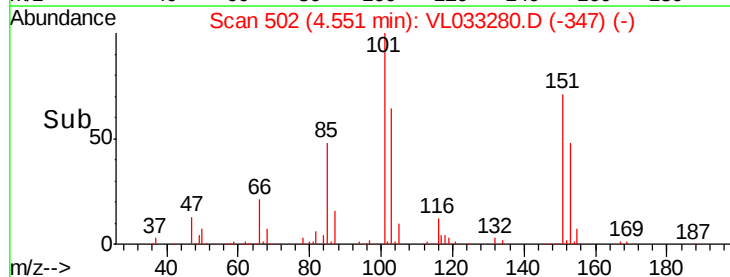
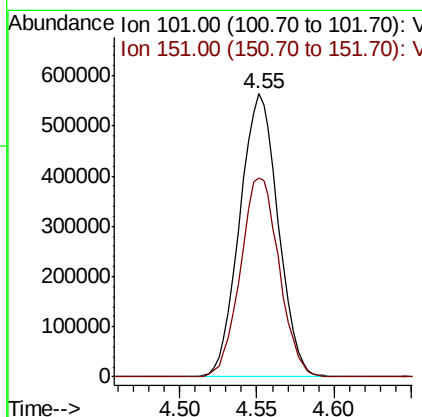
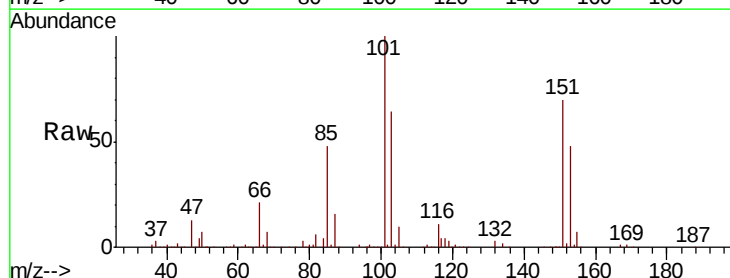
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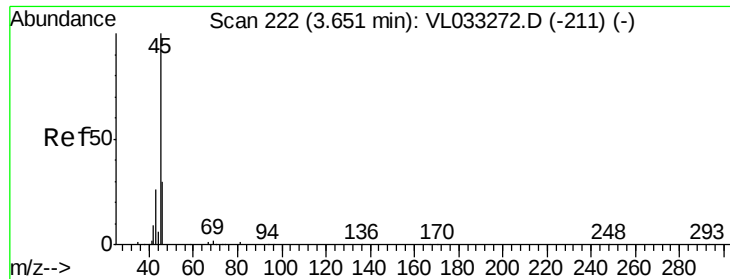
MMDadoda  
 3/14/2019 5:05:56 AM



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 9.376 ppbv  
 RT: 4.55 min Scan# 502  
 Delta R.T. -0.00 min  
 Lab File: VL033280.D  
 Acq: 12 Mar 2019 10:04

Tgt Ion:101 Resp: 974529  
 Ion Ratio Lower Upper  
 101 100  
 151 71.1 56.9 85.3





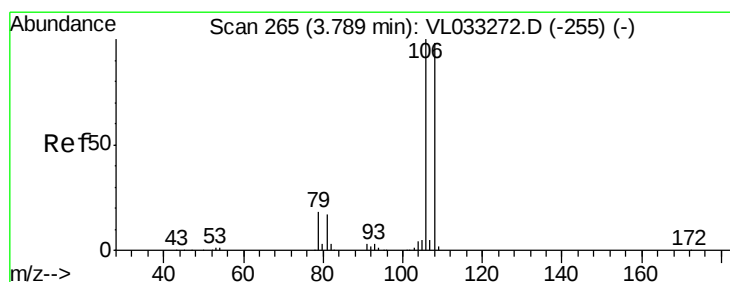
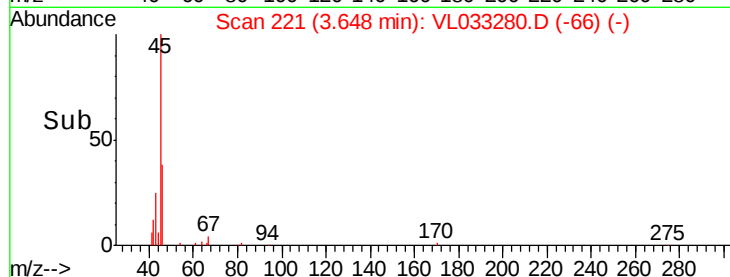
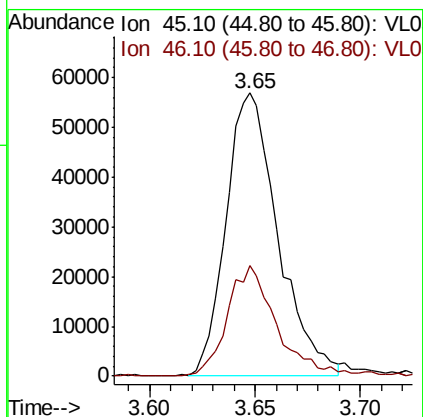
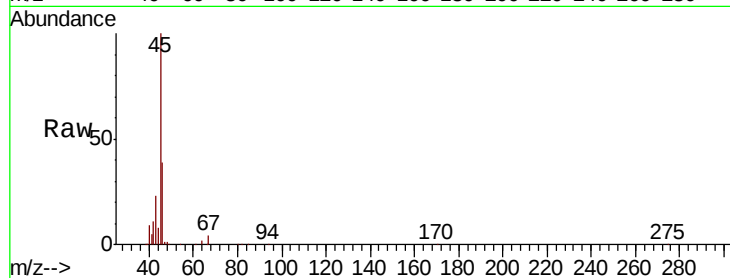
#13  
Ethanol  
Concen: 5.765 ppbv  
RT: 3.65 min Scan# 221  
Delta R.T. -0.00 min  
Lab File: VL033280.D  
Acq: 12 Mar 2019 10:04

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL031219

Tgt Ion: 45 Resp: 96627  
Ion Ratio Lower Upper  
45 100  
46 37.8 13.9 55.7

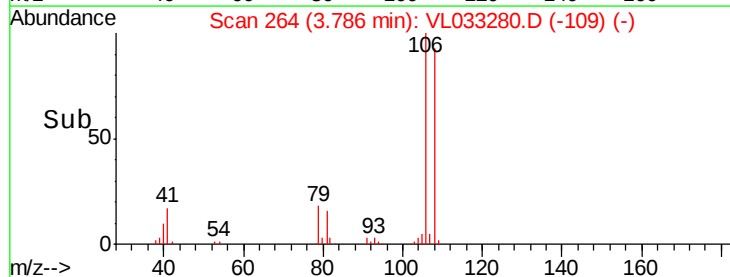
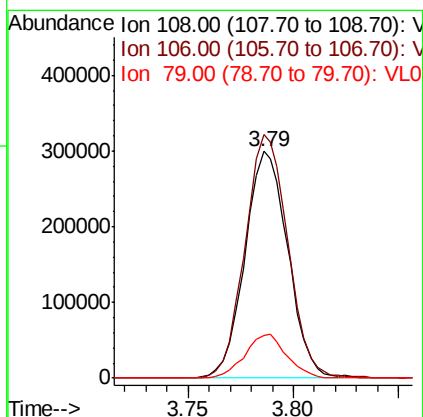
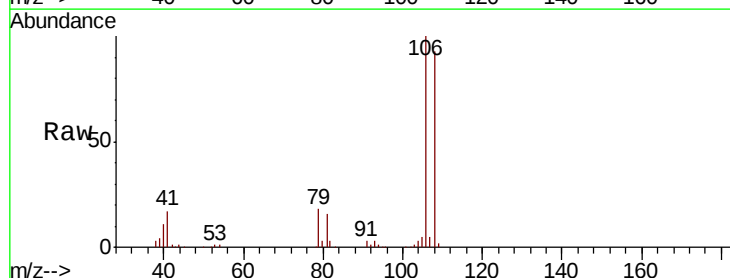
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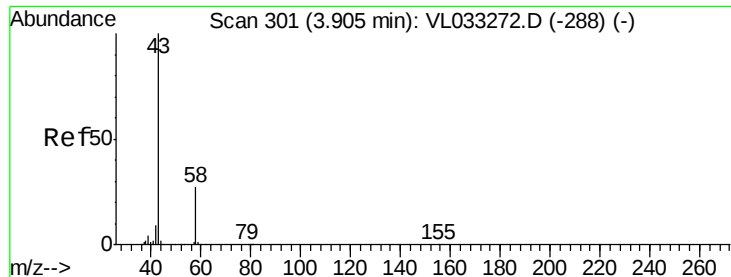
MMDadoda  
3/14/2019 5:05:56 AM



#14  
Bromoethene  
Concen: 8.740 ppbv  
RT: 3.79 min Scan# 264  
Delta R.T. -0.00 min  
Lab File: VL033280.D  
Acq: 12 Mar 2019 10:04

Tgt Ion: 108 Resp: 423682  
Ion Ratio Lower Upper  
108 100  
106 108.1 85.9 128.9  
79 19.0 14.9 22.3





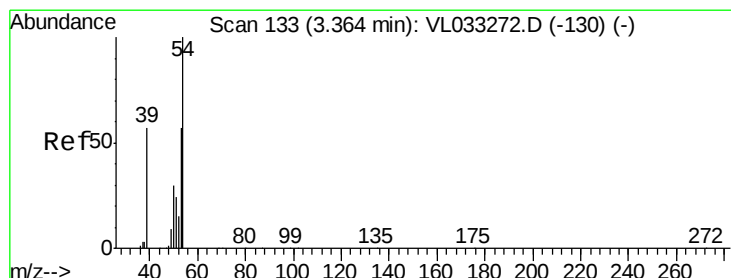
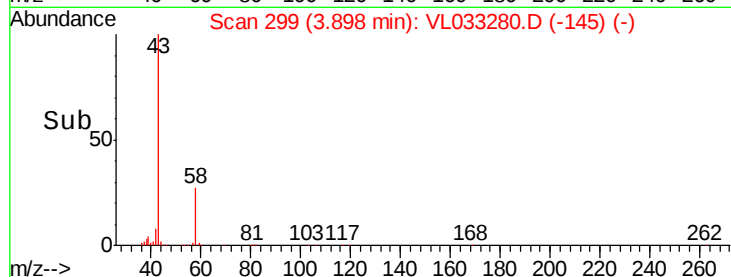
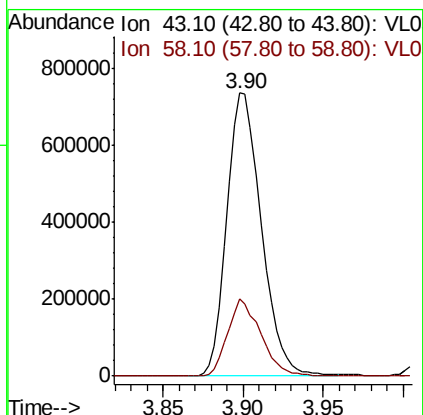
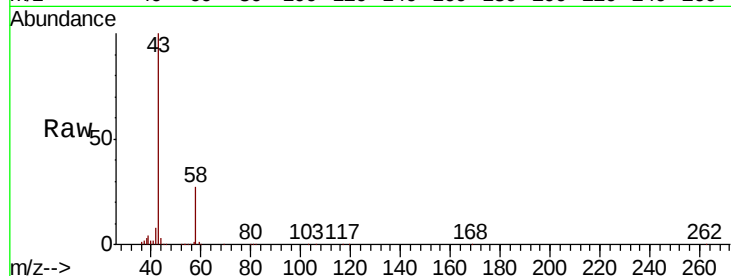
#15  
Acetone  
Concen: 7.782 ppbv  
RT: 3.90 min Scan# 299  
Delta R.T. -0.01 min  
Lab File: VL033280.D  
Acq: 12 Mar 2019 10:04

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL031219

Tgt Ion: 43 Resp: 1084517  
Ion Ratio Lower Upper  
43 100  
58 26.2 21.1 31.7

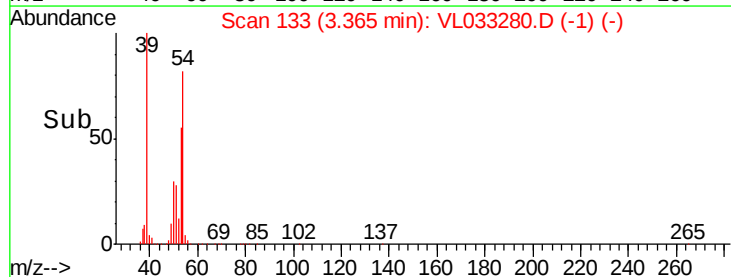
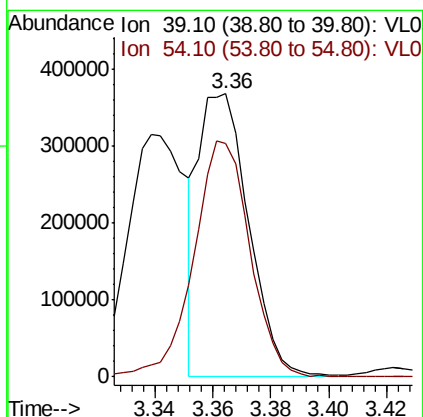
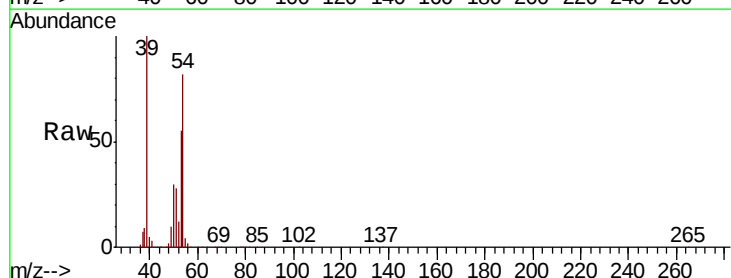
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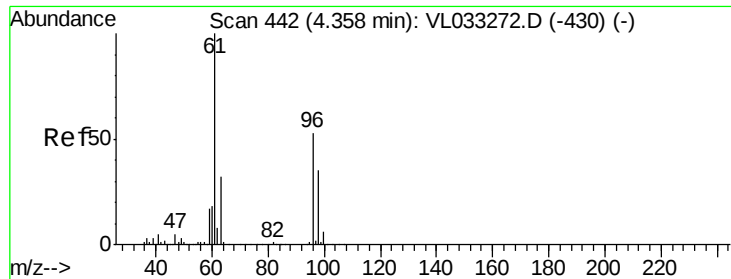
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#16  
1,3-Butadiene  
Concen: 8.707 ppbv  
RT: 3.36 min Scan# 133  
Delta R.T. 0.00 min  
Lab File: VL033280.D  
Acq: 12 Mar 2019 10:04

Tgt Ion: 39 Resp: 438123  
Ion Ratio Lower Upper  
39 100  
54 94.9 76.6 114.8





#17

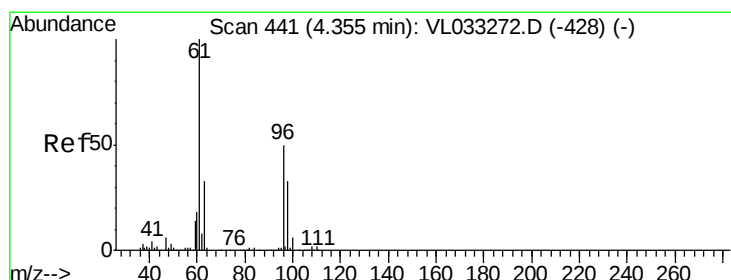
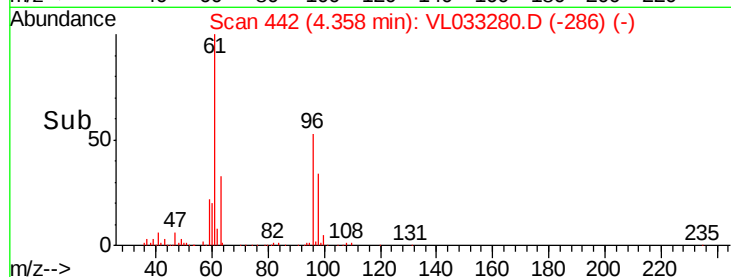
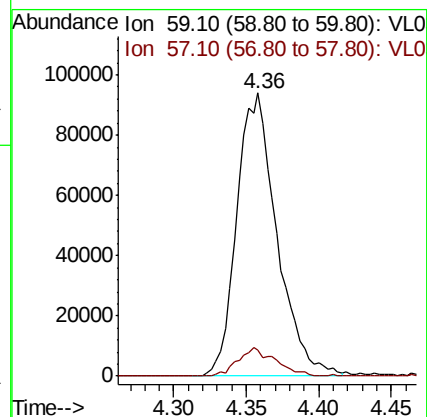
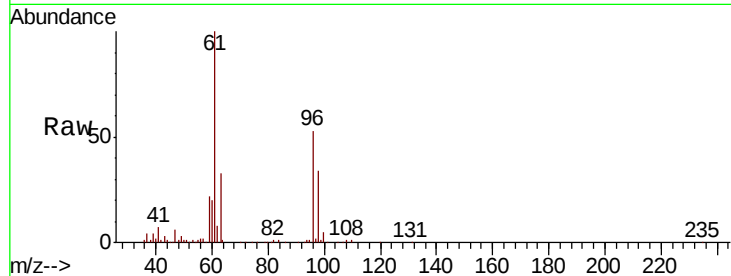
tert-Butyl alcohol  
Concen: 9.632 ppbv  
RT: 4.36 min Scan# 442  
Delta R.T. 0.00 min  
Lab File: VL033280.D  
Acq: 12 Mar 2019 10:04

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL031219

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 59      | 100   | 180125 |       |       |
| 57      | 9.6   | 7.5    | 11.3  |       |

Manual Integrations  
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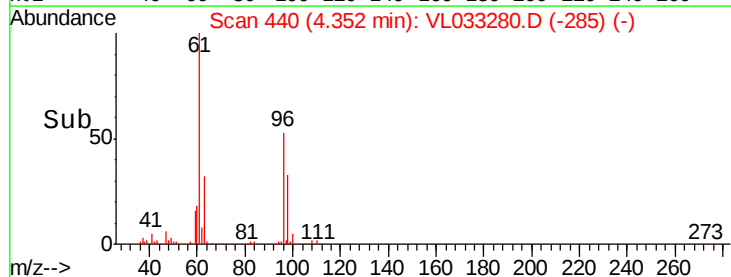
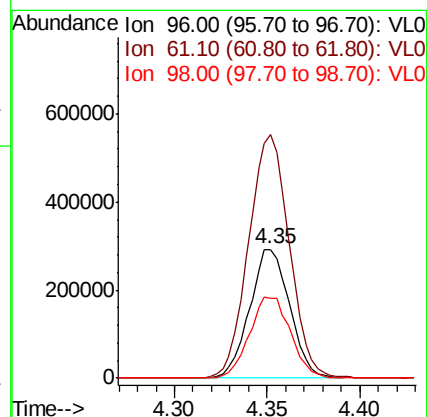
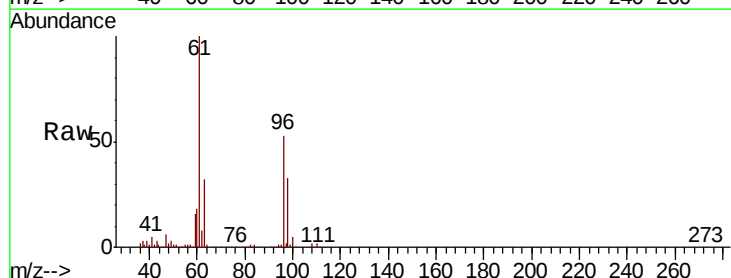
MMDadoda  
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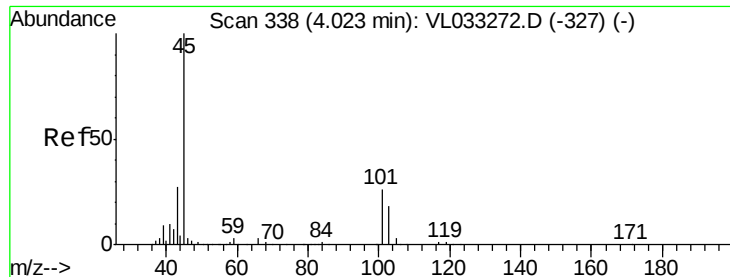


#18

1,1-Dichloroethene  
Concen: 9.555 ppbv  
RT: 4.35 min Scan# 440  
Delta R.T. -0.00 min  
Lab File: VL033280.D  
Acq: 12 Mar 2019 10:04

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 96      | 100   | 439603 |       |       |
| 61      | 189.5 | 158.9  | 238.3 |       |
| 98      | 62.2  | 52.4   | 78.6  |       |





#19

Isopropyl Alcohol

Concen: 7.474 ppbv

RT: 4.02 min Scan# 337

Delta R.T. -0.00 min

Lab File: VL033280.D

Acq: 12 Mar 2019 10:04

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL031219

Tgt Ion: 45 Resp: 629487

Ion Ratio Lower Upper

45 100

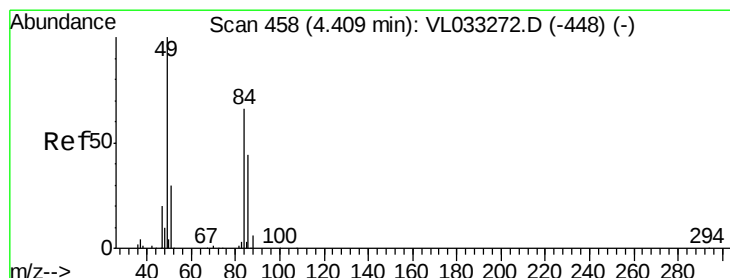
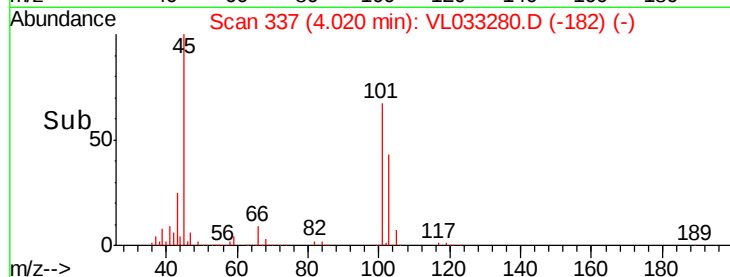
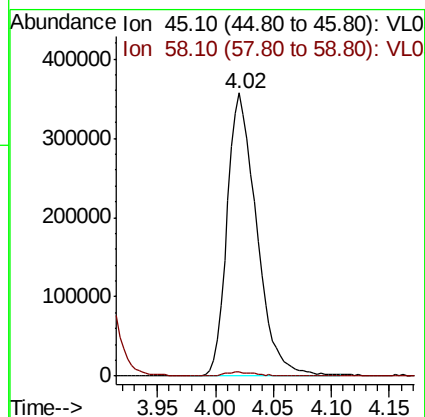
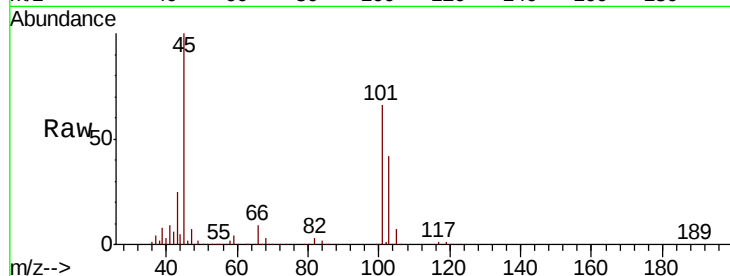
58 1.7 1.4 2.2

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#20

Methylene Chloride

Concen: 8.168 ppbv

RT: 4.41 min Scan# 457

Delta R.T. -0.00 min

Lab File: VL033280.D

Acq: 12 Mar 2019 10:04

Tgt Ion: 84 Resp: 378466

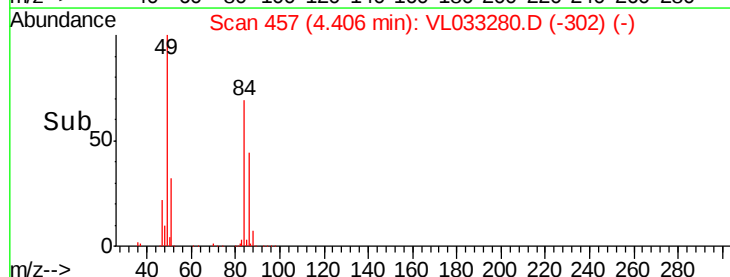
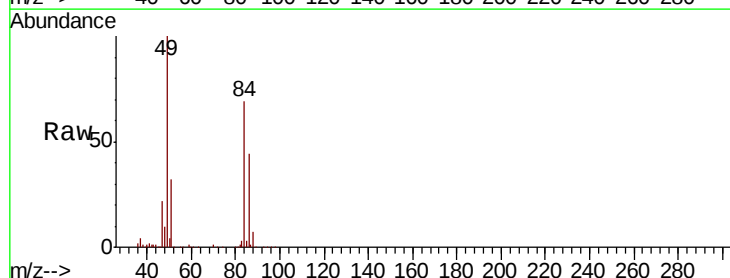
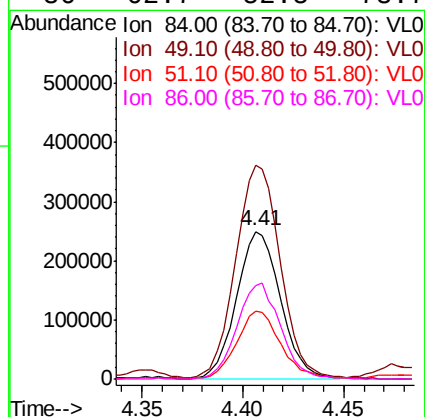
Ion Ratio Lower Upper

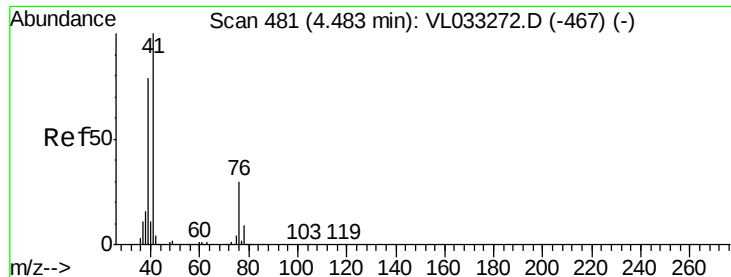
84 100

49 143.6 120.3 180.5

51 45.2 36.2 54.4

86 62.7 52.5 78.7





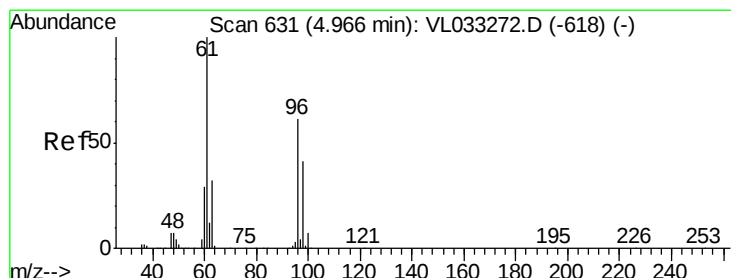
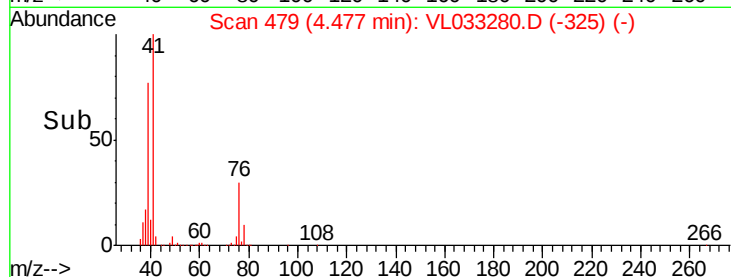
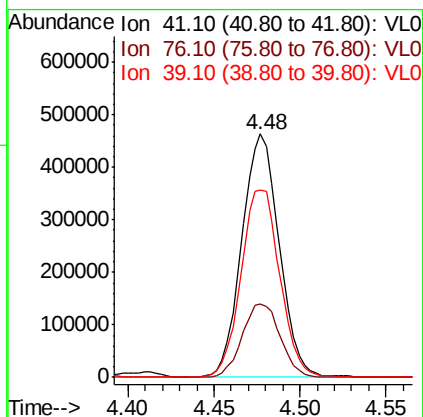
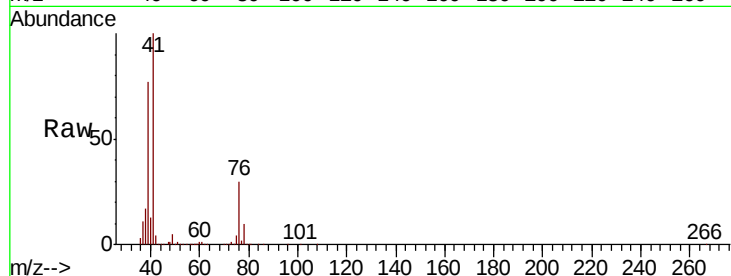
#21  
 Allyl Chloride  
 Concen: 10.052 ppbv  
 RT: 4.48 min Scan# 479  
 Delta R.T. -0.01 min  
 Lab File: VL033280.D  
 Acq: 12 Mar 2019 10:04

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL031219

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 76      | 30.9  | 25.0  | 37.4  |
| 39      | 80.5  | 64.2  | 96.4  |

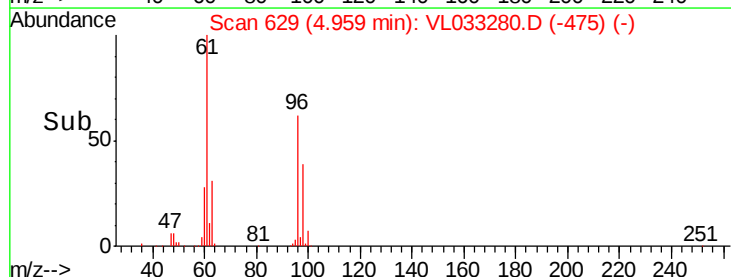
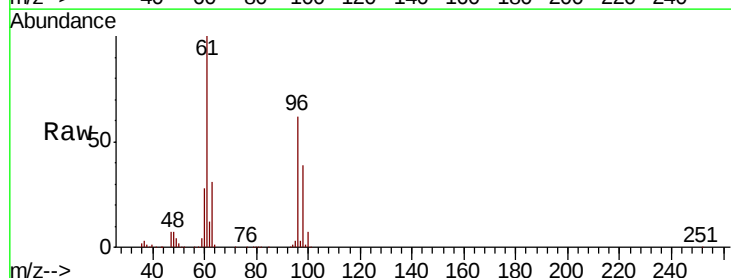
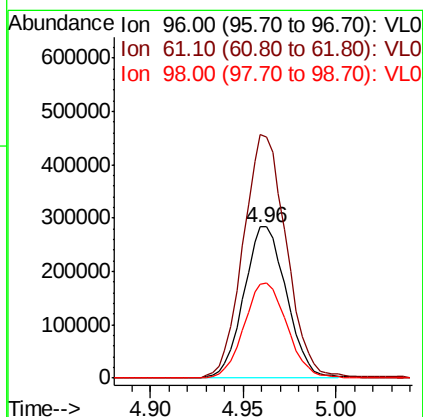
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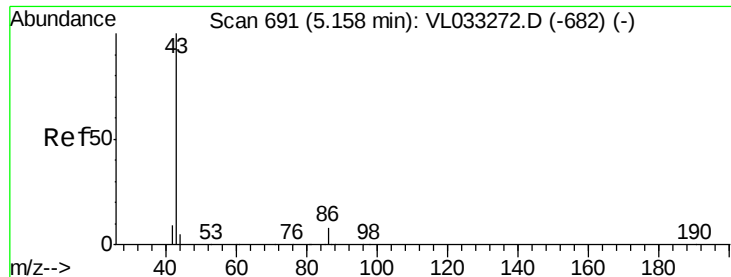
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#22  
 trans-1,2-Dichloroethene  
 Concen: 9.227 ppbv  
 RT: 4.96 min Scan# 629  
 Delta R.T. -0.01 min  
 Lab File: VL033280.D  
 Acq: 12 Mar 2019 10:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 160.9 | 131.6 | 197.4 |
| 98      | 62.4  | 54.1  | 81.1  |





#23  
 Vinyl Acetate  
 Concen: 9.909 ppbv  
 RT: 5.15 min Scan# 689  
 Delta R.T. -0.01 min  
 Lab File: VL033280.D  
 Acq: 12 Mar 2019 10:04

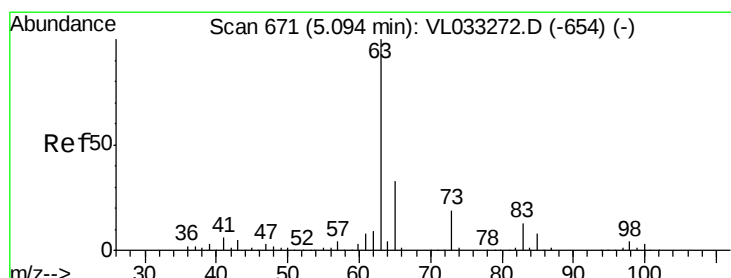
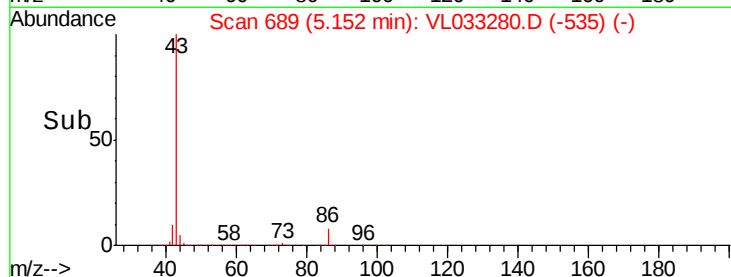
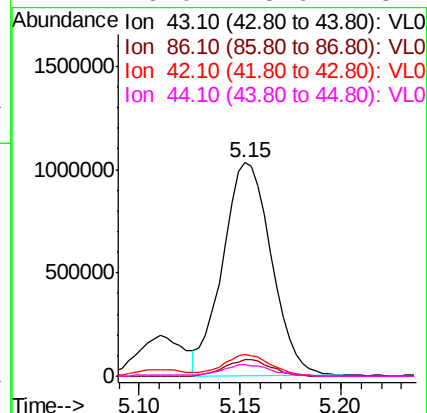
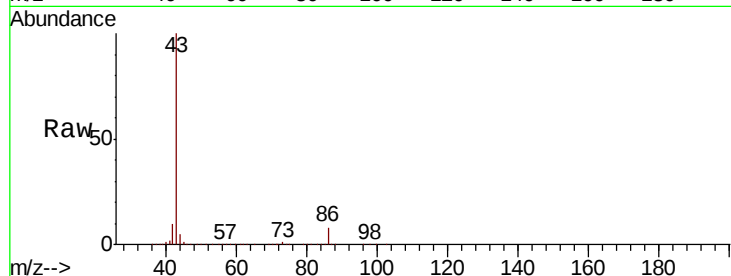
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL031219

Tgt Ion: 43 Resp: 1730278

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 7.7   | 5.5   | 8.3   |
| 42  | 10.4  | 7.8   | 11.6  |
| 44  | 5.0   | 3.6   | 5.4   |

Manual Integrations  
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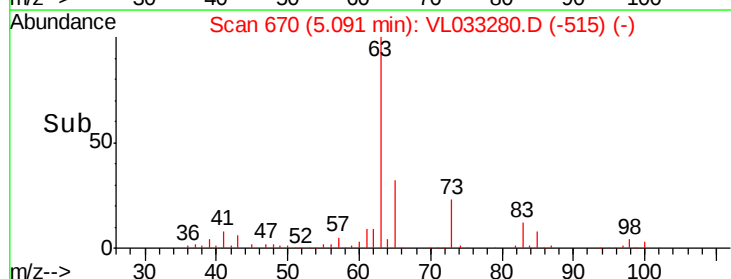
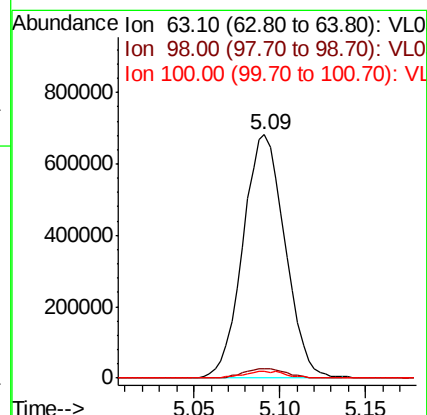
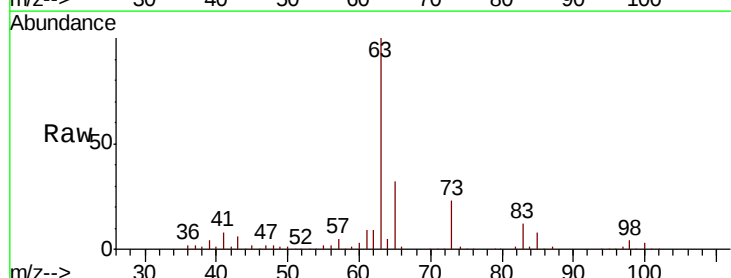
MMDadoda  
 3/14/2019 5:05:56 AM

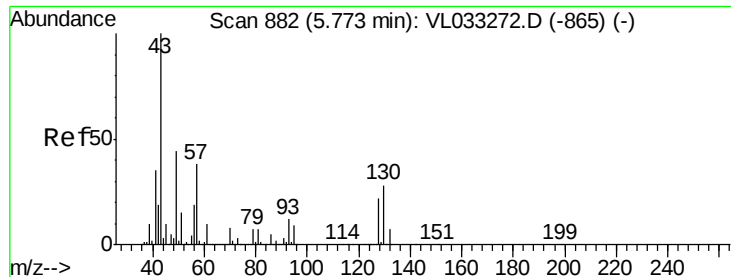


#24  
 1,1-Dichloroethane  
 Concen: 9.134 ppbv  
 RT: 5.09 min Scan# 670  
 Delta R.T. -0.00 min  
 Lab File: VL033280.D  
 Acq: 12 Mar 2019 10:04

Tgt Ion: 63 Resp: 1156647

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 3.9   | 2.2   | 6.6   |
| 100 | 2.8   | 1.5   | 4.4   |





#25

Ethyl Acetate

Concen: 9.178 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.01 min

Lab File: VL033280.D

Acq: 12 Mar 2019 10:04

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL031219

Tgt Ion: 43 Resp: 1970892

Ion Ratio Lower Upper

43 100

45 9.7 7.8 11.6

61 9.1 7.3 10.9

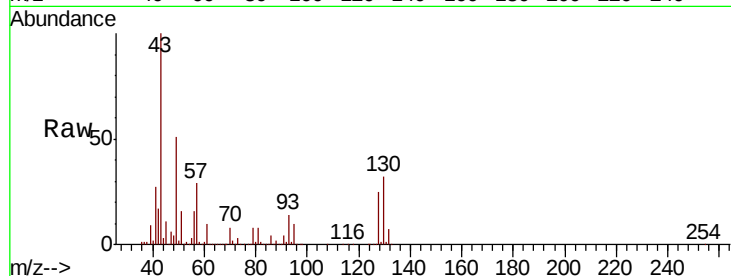
70 7.2 5.8 8.6

Manual Integrations

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MMDadoda

3/14/2019 5:05:56 AM



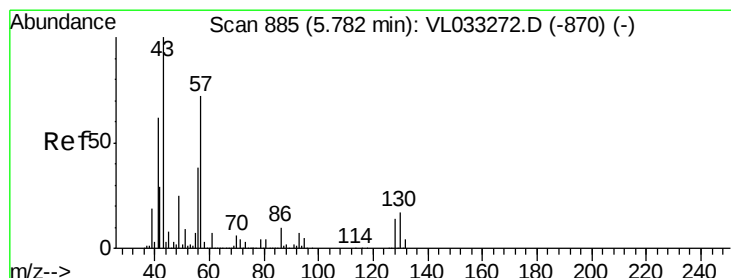
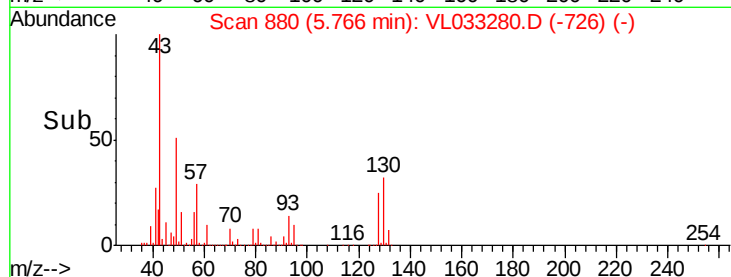
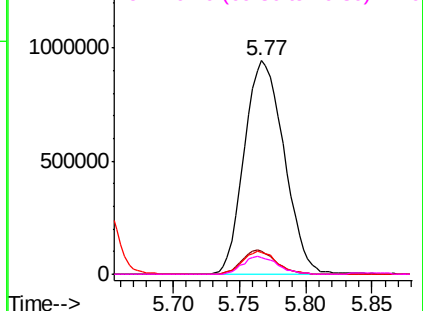
Abundance

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: 8.804 ppbv

RT: 5.78 min Scan# 884

Delta R.T. -0.00 min

Lab File: VL033280.D

Acq: 12 Mar 2019 10:04

Tgt Ion: 57 Resp: 887427

Ion Ratio Lower Upper

57 100

41 89.2 70.7 106.1

43 223.6 178.6 267.8

56 52.8 41.3 61.9

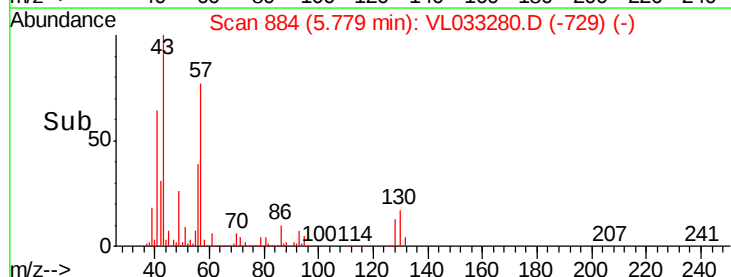
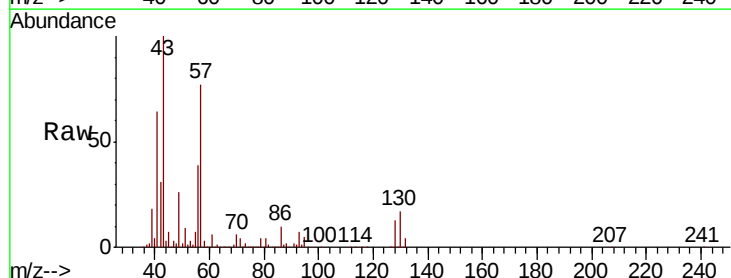
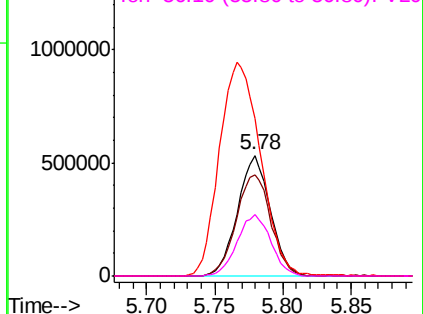
Abundance

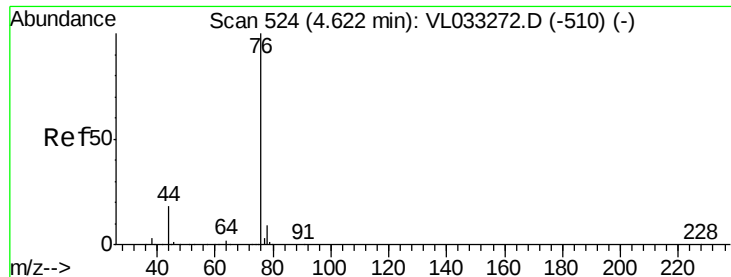
Ion 57.10 (56.80 to 57.80): VL0

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: 10.305 ppbv

RT: 4.62 min Scan# 523

Delta R.T. -0.00 min

Lab File: VL033280.D

Acq: 12 Mar 2019 10:04

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL031219

Tgt Ion: 76 Resp: 1102058

Ion Ratio Lower Upper

76 100

44 19.6 15.1 22.7

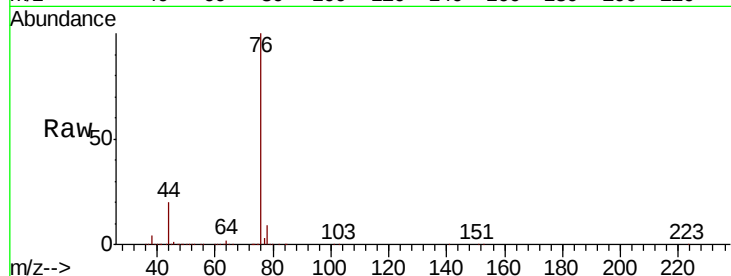
78 9.3 7.4 11.0

Manual Integrations

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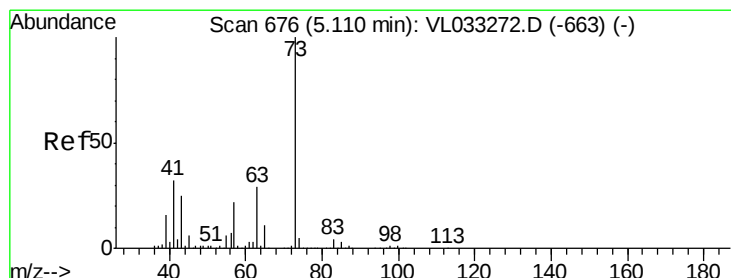
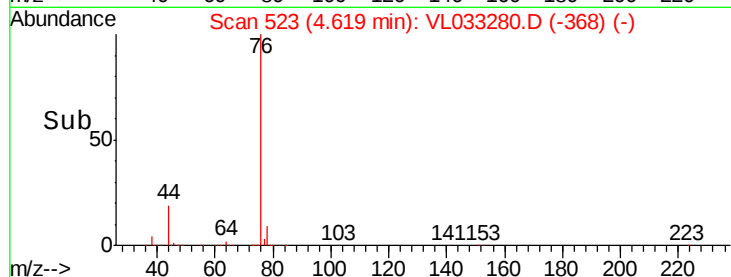
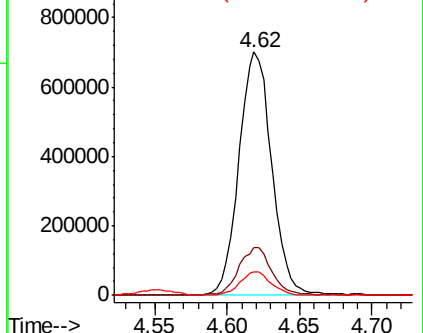
3/14/2019 5:05:56 AM



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.570 ppbv

RT: 5.11 min Scan# 676

Delta R.T. 0.00 min

Lab File: VL033280.D

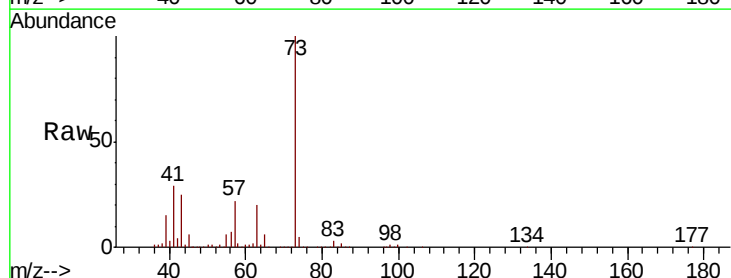
Acq: 12 Mar 2019 10:04

Tgt Ion: 73 Resp: 1368935

Ion Ratio Lower Upper

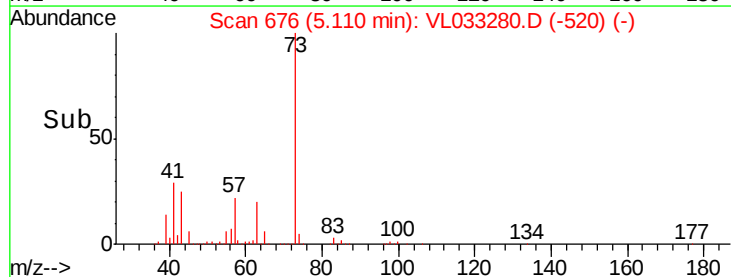
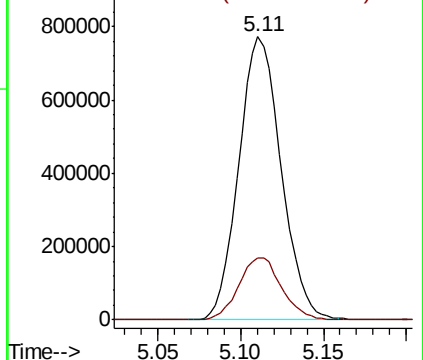
73 100

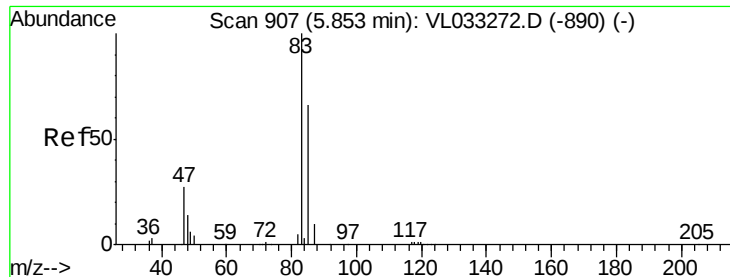
57 22.4 17.9 26.9



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





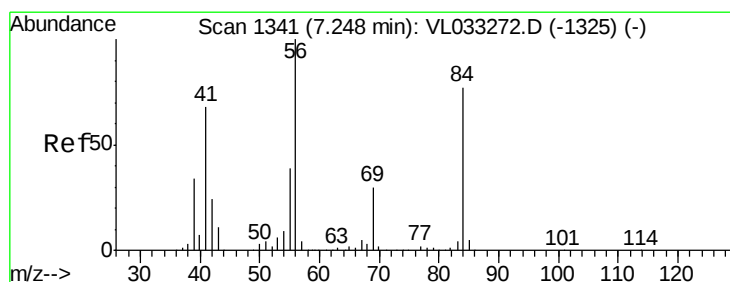
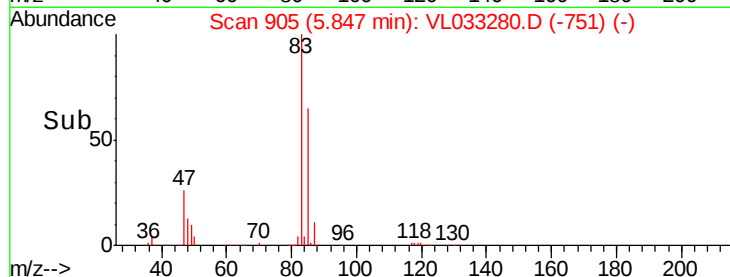
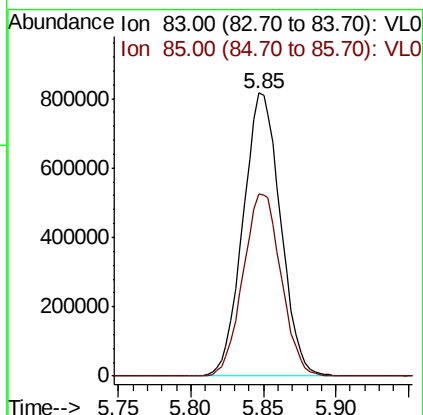
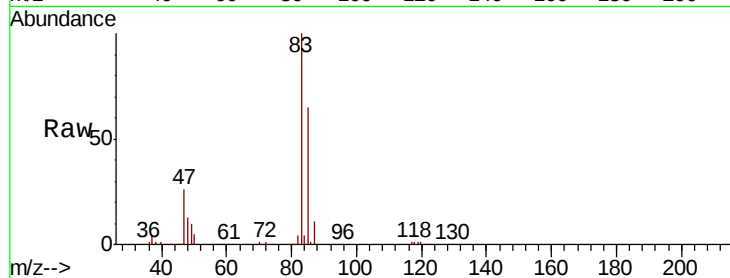
#29  
Chloroform  
Concen: 9.574 ppbv  
RT: 5.85 min Scan# 905  
Delta R.T. -0.01 min  
Lab File: VL033280.D  
Acq: 12 Mar 2019 10:04

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL031219

Tgt Ion: 83 Resp: 1468180  
Ion Ratio Lower Upper  
83 100  
85 64.5 52.5 78.7

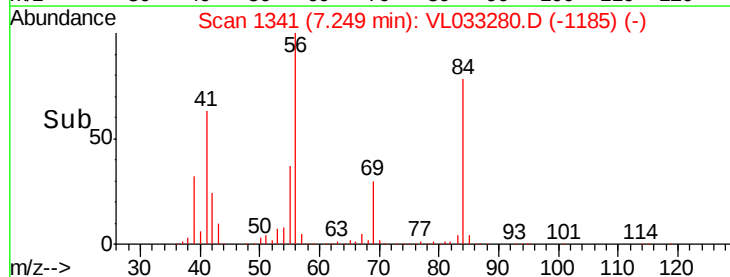
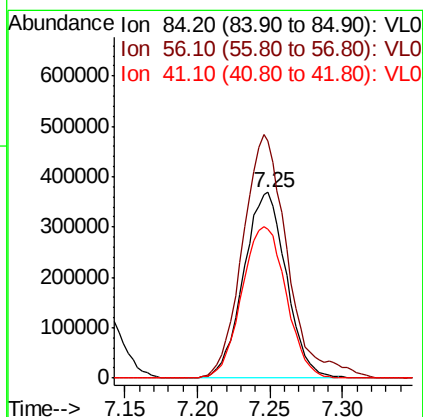
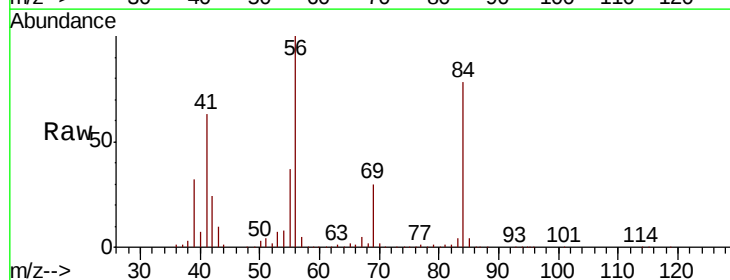
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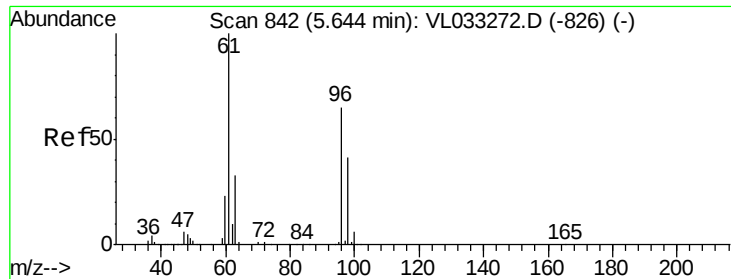
MMDadoda  
3/14/2019 5:05:56 AM



#30  
Cyclohexane  
Concen: 9.631 ppbv  
RT: 7.25 min Scan# 1341  
Delta R.T. 0.00 min  
Lab File: VL033280.D  
Acq: 12 Mar 2019 10:04

Tgt Ion: 84 Resp: 752650  
Ion Ratio Lower Upper  
84 100  
56 138.3 112.0 168.0  
41 85.0 69.9 104.9





#31

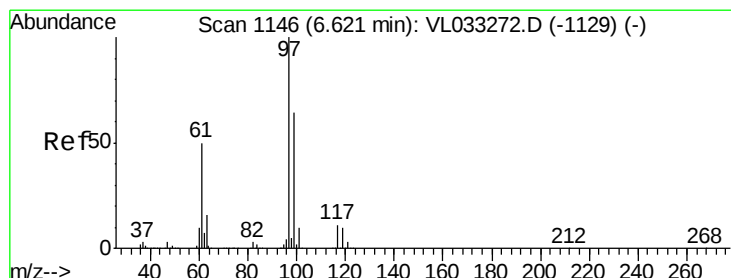
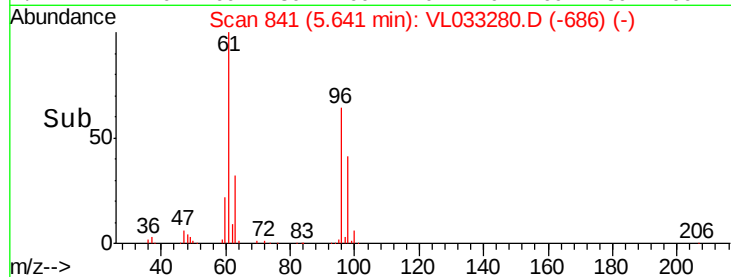
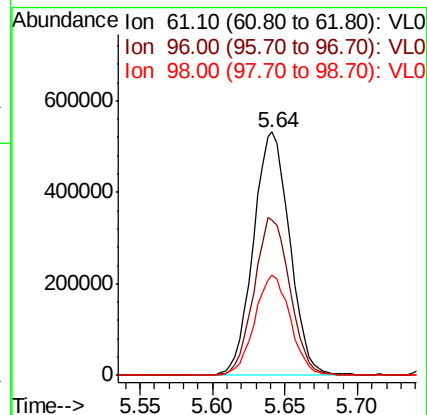
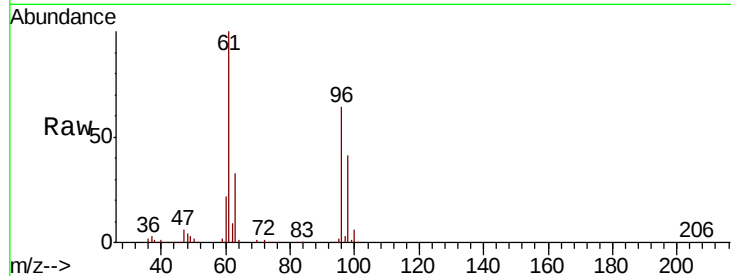
cis-1,2-Dichloroethene  
 Concen: 9.602 ppbv  
 RT: 5.64 min Scan# 841  
 Delta R.T. -0.00 min  
 Lab File: VL033280.D  
 Acq: 12 Mar 2019 10:04

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL031219

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 61      | 100   |       |       |
| 96      | 63.8  | 51.8  | 77.8  |
| 98      | 41.4  | 32.9  | 49.3  |

Manual Integrations  
 APPROVED

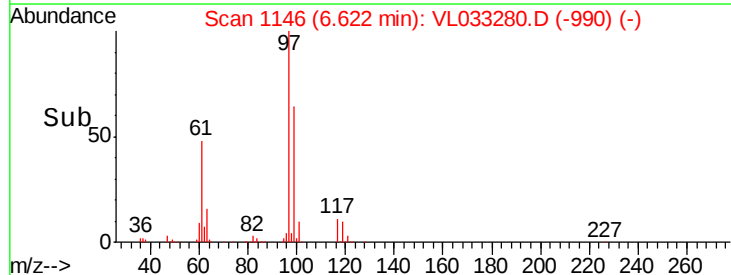
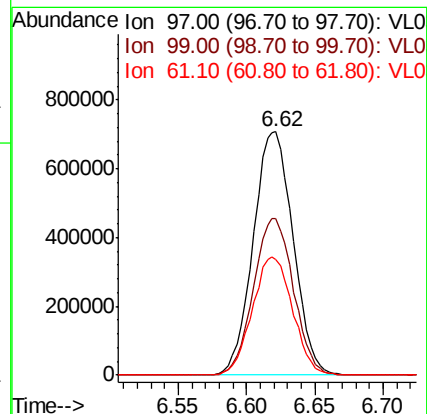
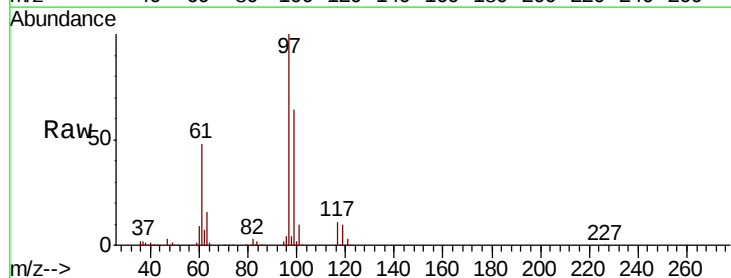
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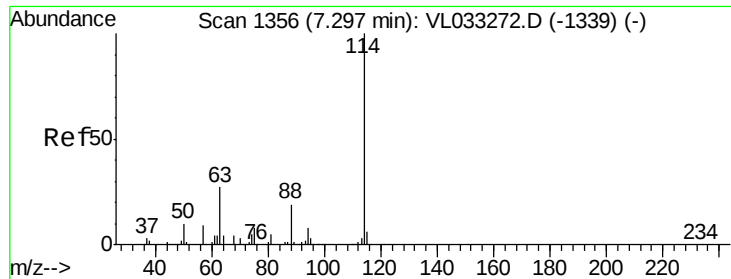


#32

1,1,1-Trichloroethane  
 Concen: 9.621 ppbv  
 RT: 6.62 min Scan# 1146  
 Delta R.T. 0.00 min  
 Lab File: VL033280.D  
 Acq: 12 Mar 2019 10:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 64.2  | 51.7  | 77.5  |
| 61      | 49.0  | 39.7  | 59.5  |





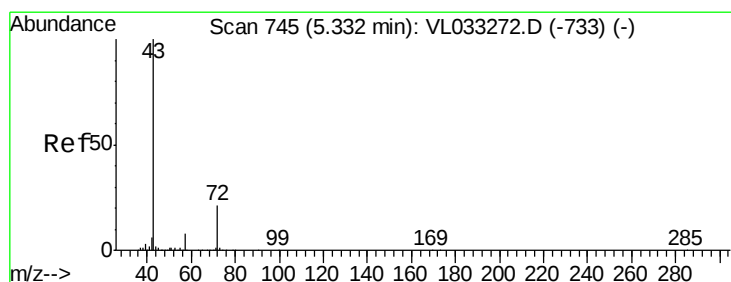
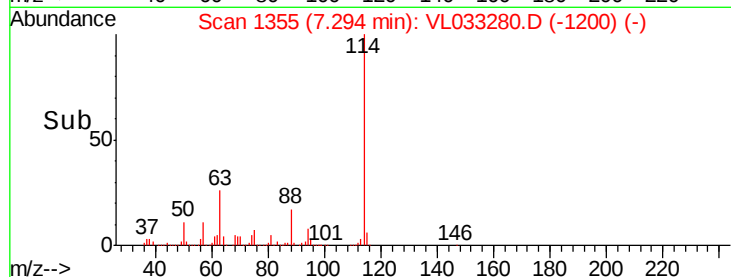
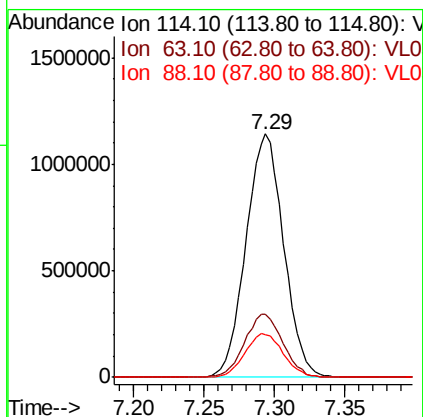
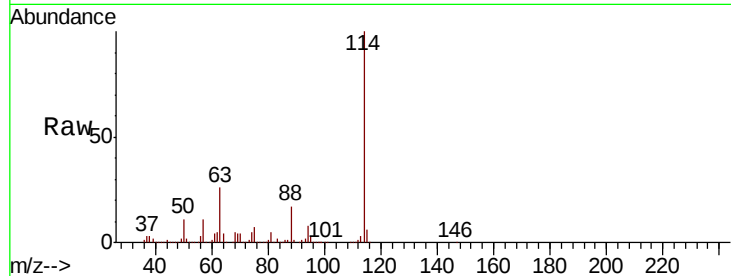
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.29 min Scan# 1355  
 Delta R.T. -0.00 min  
 Lab File: VL033280.D  
 Acq: 12 Mar 2019 10:04

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL031219

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 26.7  | 21.5  | 32.3  |
| 88      | 18.3  | 14.6  | 22.0  |

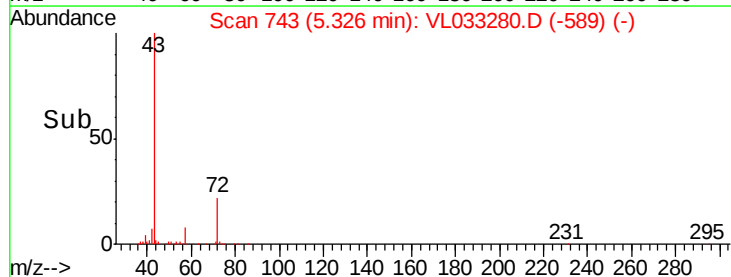
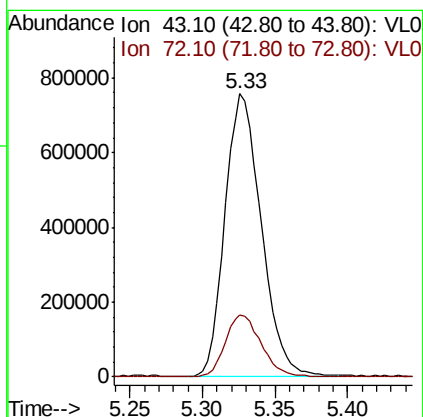
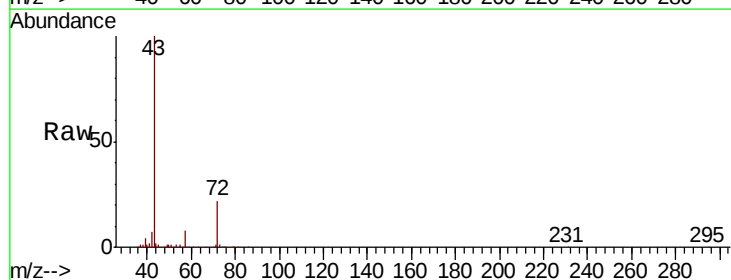
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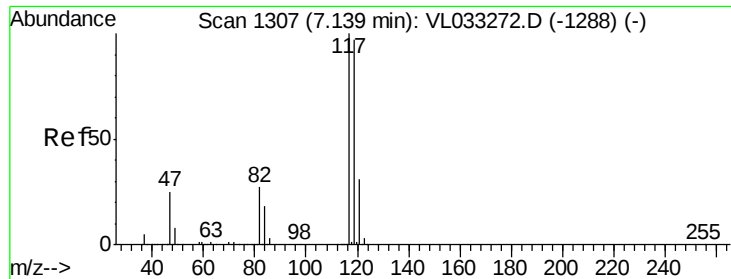
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 3/14/2019 5:05:56 AM



#34  
 2-Butanone  
 Concen: 9.306 ppbv  
 RT: 5.33 min Scan# 743  
 Delta R.T. -0.01 min  
 Lab File: VL033280.D  
 Acq: 12 Mar 2019 10:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 21.5  | 17.0  | 25.6  |





#35

Carbon Tetrachloride

Concen: 9.544 ppbv

RT: 7.13 min Scan# 1305

Delta R.T. -0.01 min

Lab File: VL033280.D

Acq: 12 Mar 2019 10:04

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL031219

Tgt Ion: 117 Resp: 1492275

Ion Ratio Lower Upper

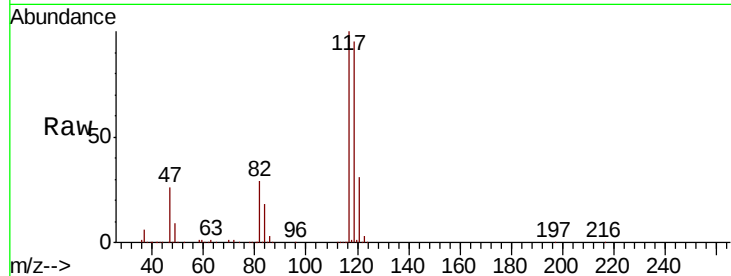
117 100

119 95.0 77.4 116.0

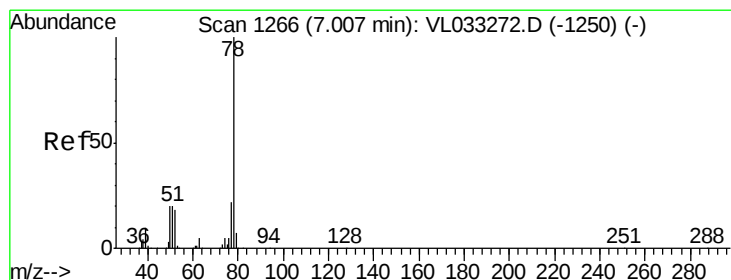
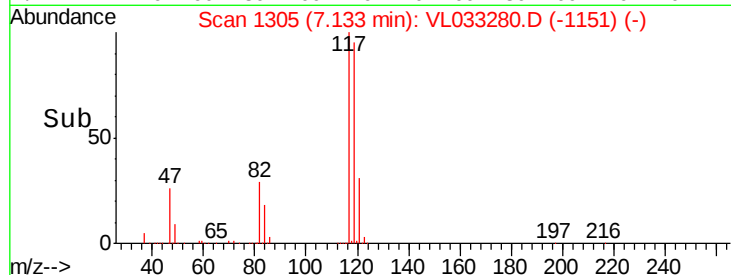
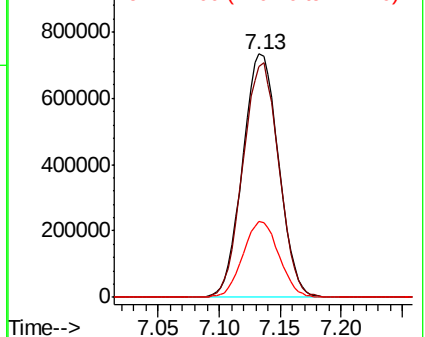
121 31.4 24.9 37.3

Manual Integrations  
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MMDadoda  
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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: 9.409 ppbv

RT: 7.00 min Scan# 1265

Delta R.T. -0.00 min

Lab File: VL033280.D

Acq: 12 Mar 2019 10:04

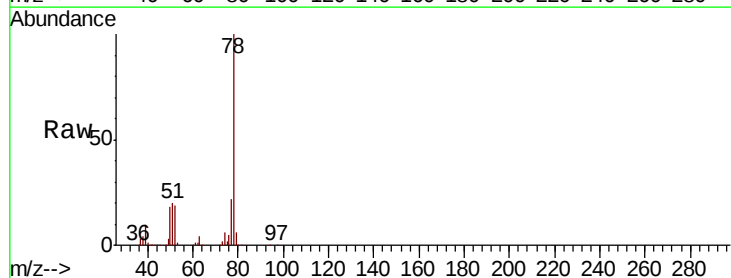
Tgt Ion: 78 Resp: 1856800

Ion Ratio Lower Upper

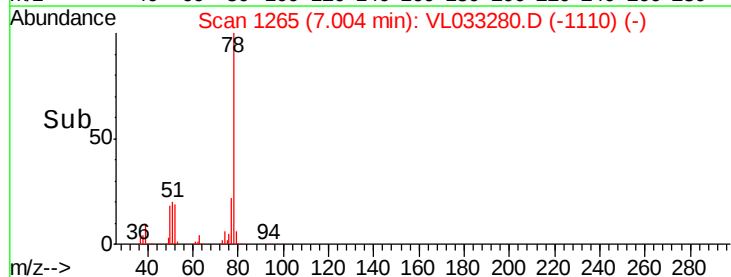
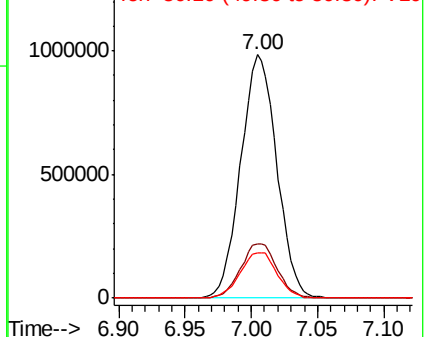
78 100

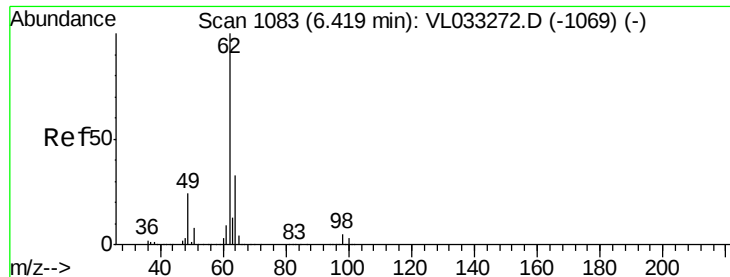
77 22.4 17.7 26.5

50 18.5 15.7 23.5



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





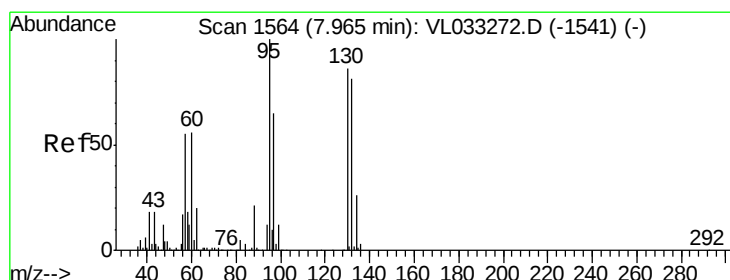
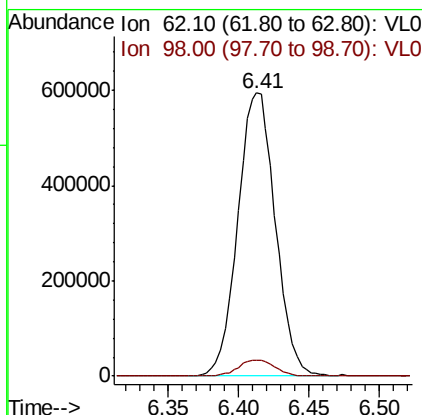
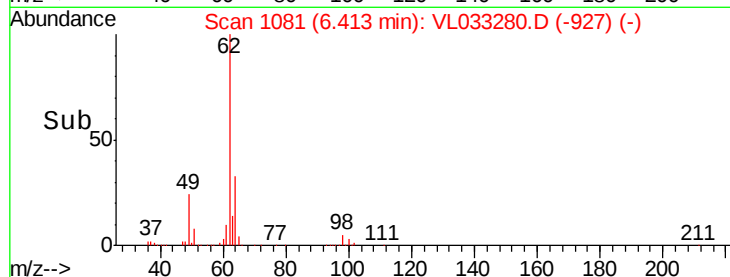
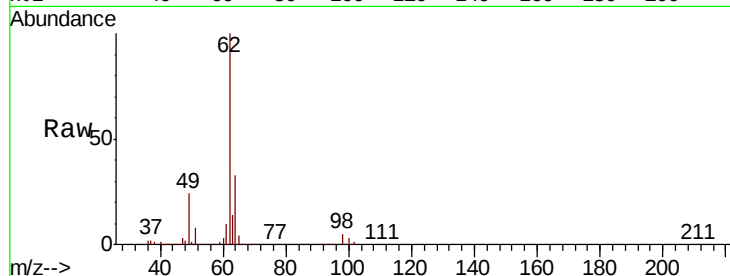
#37  
 1,2-Dichloroethane  
 Concen: 9.354 ppbv  
 RT: 6.41 min Scan# 1081  
 Delta R.T. -0.01 min  
 Lab File: VL033280.D  
 Acq: 12 Mar 2019 10:04

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL031219

Tgt Ion: 62 Resp: 1107117  
 Ion Ratio Lower Upper  
 62 100  
 98 5.7 4.5 6.7

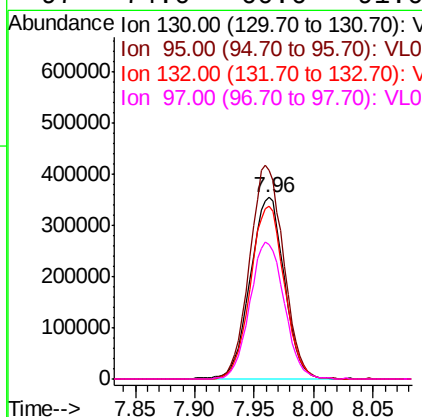
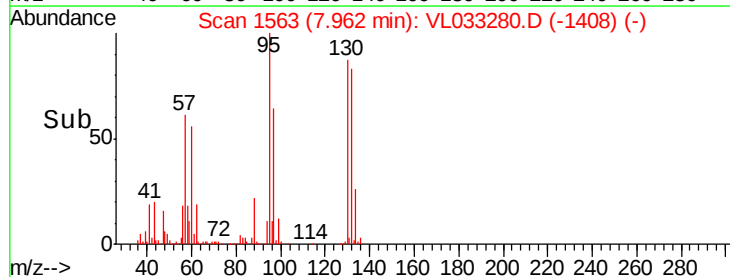
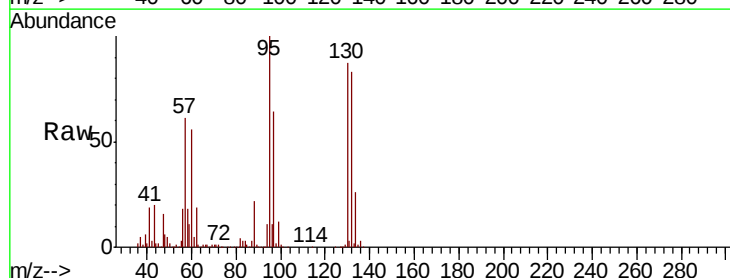
Manual Integrations  
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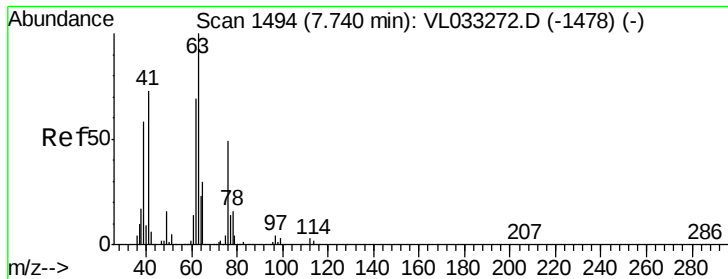
MMDadoda  
 3/14/2019 5:05:56 AM



#38  
 Trichloroethene  
 Concen: 9.085 ppbv  
 RT: 7.96 min Scan# 1563  
 Delta R.T. -0.00 min  
 Lab File: VL033280.D  
 Acq: 12 Mar 2019 10:04

Tgt Ion: 130 Resp: 698860  
 Ion Ratio Lower Upper  
 130 100  
 95 114.9 93.3 139.9  
 132 94.9 75.4 113.2  
 97 74.0 60.6 91.0





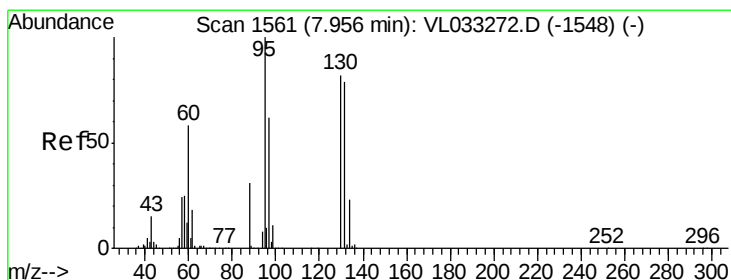
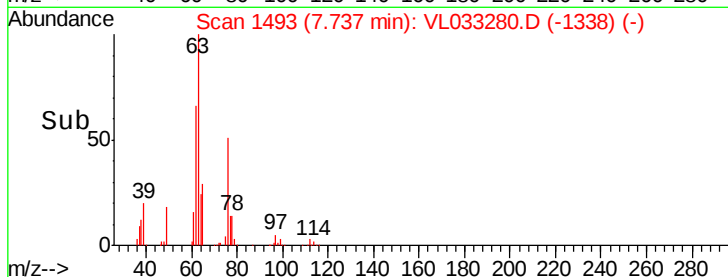
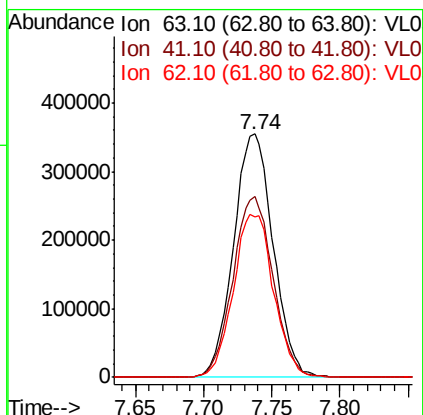
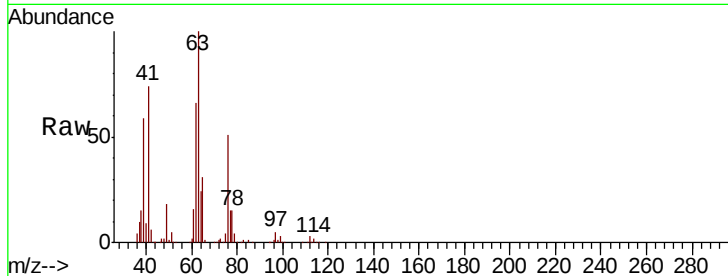
#39  
 1,2-Dichloropropane  
 Concen: 9.592 ppbv  
 RT: 7.74 min Scan# 1493  
 Delta R.T. -0.00 min  
 Lab File: VL033280.D  
 Acq: 12 Mar 2019 10:04

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL031219

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 63    | Resp: | 712359 |
| Ion      | Ratio | Lower | Upper  |
| 63       | 100   |       |        |
| 41       | 74.0  | 58.3  | 87.5   |
| 62       | 66.0  | 55.3  | 82.9   |

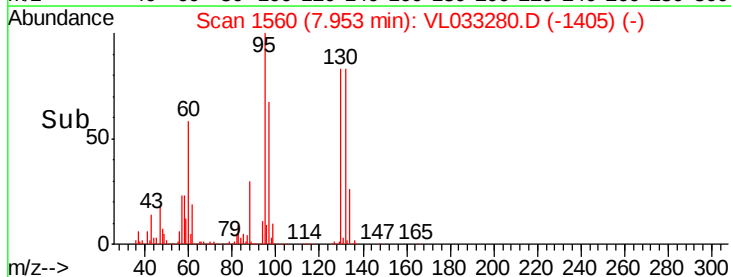
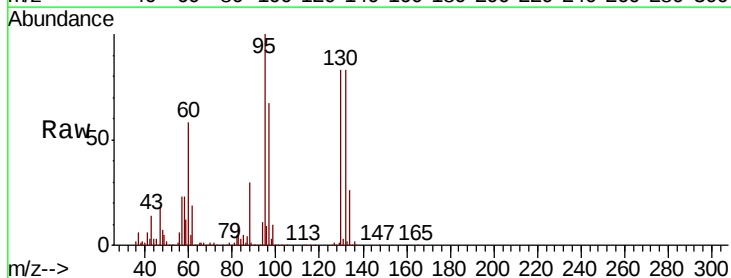
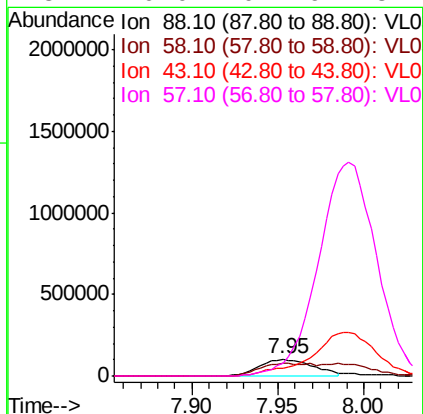
Manual Integrations  
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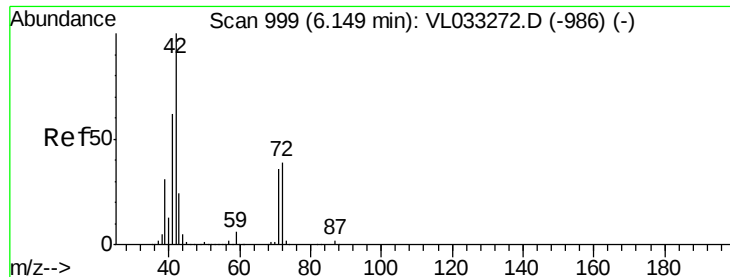
MMDadoda  
 3/14/2019 5:05:56 AM



#40  
 1,4-Dioxane  
 Concen: 8.049 ppbv  
 RT: 7.95 min Scan# 1560  
 Delta R.T. -0.00 min  
 Lab File: VL033280.D  
 Acq: 12 Mar 2019 10:04

|          |       |        |         |
|----------|-------|--------|---------|
| Tgt Ion: | 88    | Resp:  | 224977  |
| Ion      | Ratio | Lower  | Upper   |
| 88       | 100   |        |         |
| 58       | 144.0 | 107.0  | 160.6   |
| 43       | 0.0   | 230.2  | 345.4#  |
| 57       | 0.0   | 1014.9 | 1522.3# |





#41

Tetrahydrofuran

Concen: 9.572 ppbv

RT: 6.14 min Scan# 997

Delta R.T. -0.01 min

Lab File: VL033280.D

Acq: 12 Mar 2019 10:04

Instrument :

MSVOA\_L

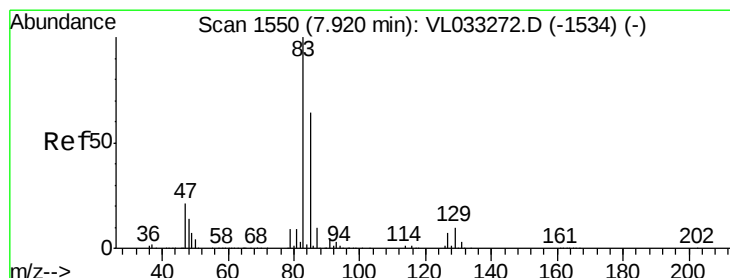
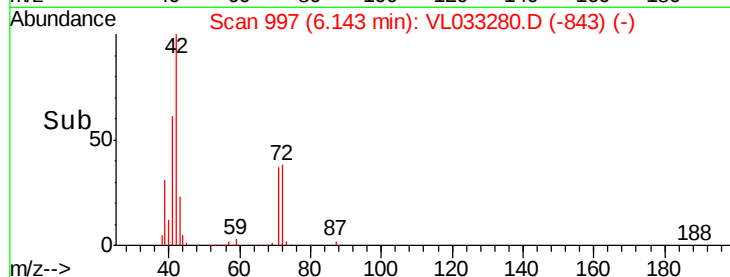
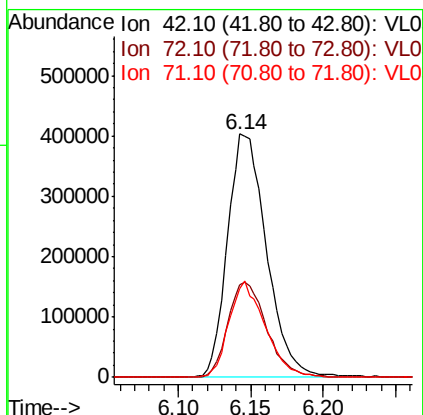
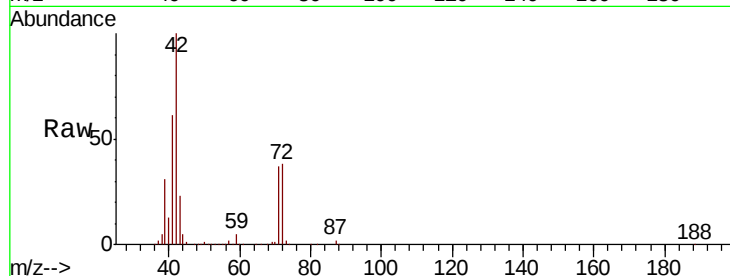
ClientSampleId :

ICVVL031219

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 42    | Resp: | 751942 |
| Ion      | Ratio | Lower | Upper  |
| 42       | 100   |       |        |
| 72       | 39.2  | 30.6  | 46.0   |
| 71       | 36.9  | 29.7  | 44.5   |

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#42

Bromodichloromethane

Concen: 9.906 ppbv

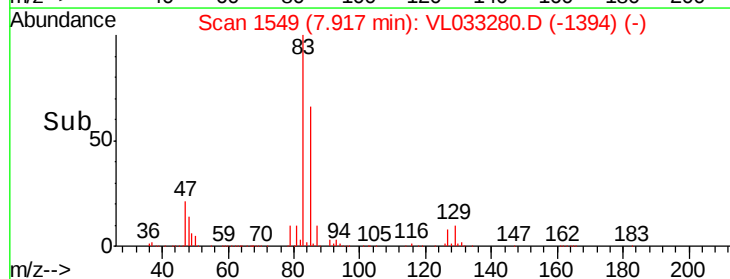
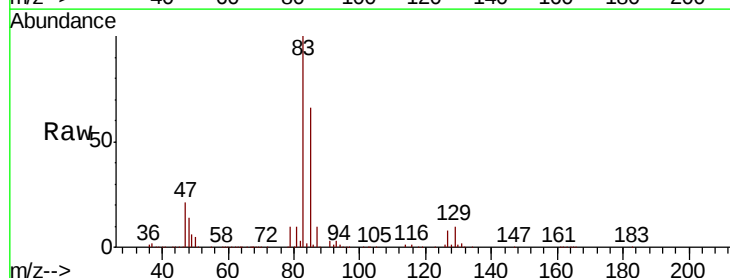
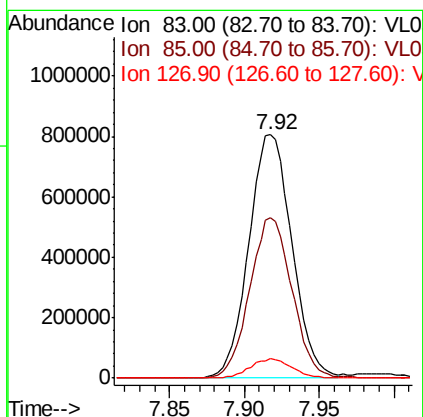
RT: 7.92 min Scan# 1549

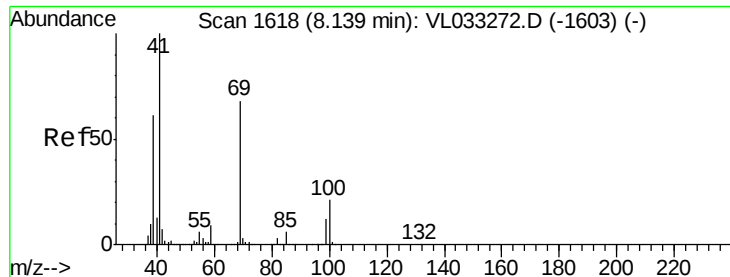
Delta R.T. -0.00 min

Lab File: VL033280.D

Acq: 12 Mar 2019 10:04

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 83    | Resp: | 1614215 |
| Ion      | Ratio | Lower | Upper   |
| 83       | 100   |       |         |
| 85       | 65.7  | 51.0  | 76.4    |
| 127      | 7.8   | 6.0   | 9.0     |





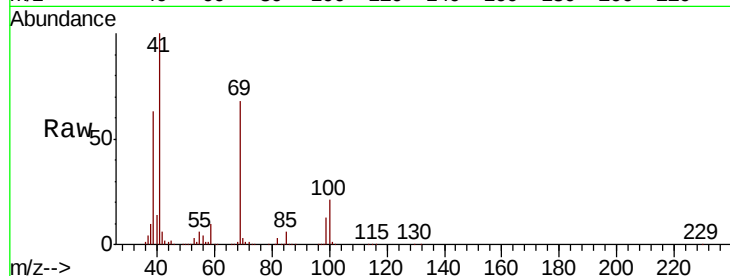
#43  
Methyl Methacrylate  
Concen: 9.983 ppbv  
RT: 8.14 min Scan# 1617  
Delta R.T. -0.00 min  
Lab File: VL033280.D  
Acq: 12 Mar 2019 10:04

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL031219

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 69      | 100   |       |       |
| 41      | 148.3 | 121.0 | 181.4 |
| 100     | 31.0  | 24.4  | 36.6  |

Manual Integrations  
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3/14/2019 5:05:56 AM

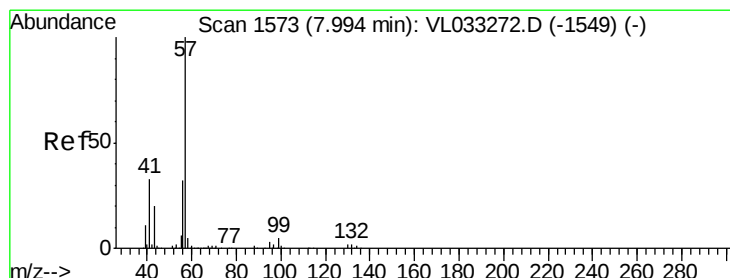
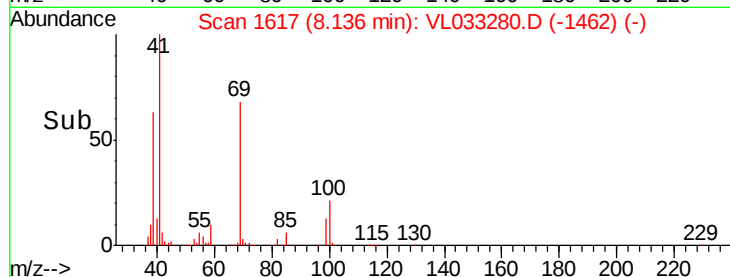
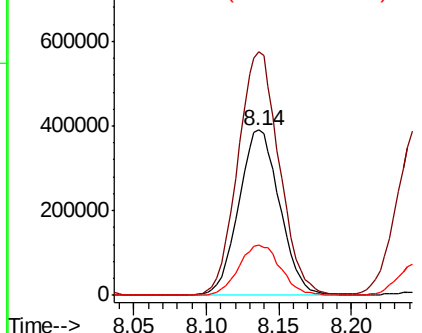


Abundance

Ion 69.10 (68.80 to 69.80): VL0

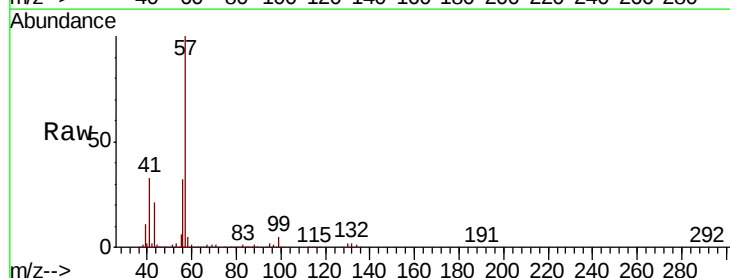
Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0



#44  
2,2,4-Trimethylpentane  
Concen: 9.176 ppbv  
RT: 7.99 min Scan# 1572  
Delta R.T. -0.00 min  
Lab File: VL033280.D  
Acq: 12 Mar 2019 10:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 57      | 100   |       |       |
| 41      | 32.4  | 26.2  | 39.2  |
| 56      | 31.2  | 24.8  | 37.2  |

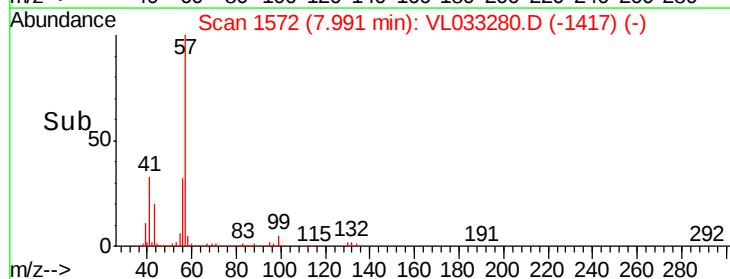
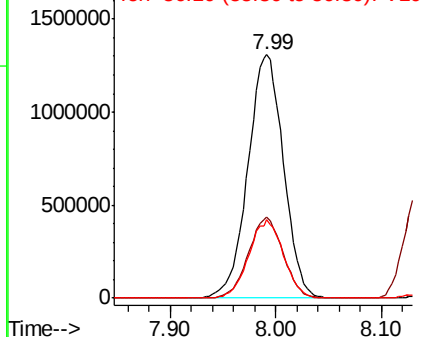


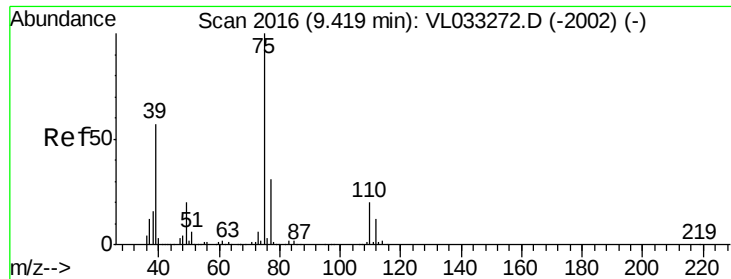
Abundance

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





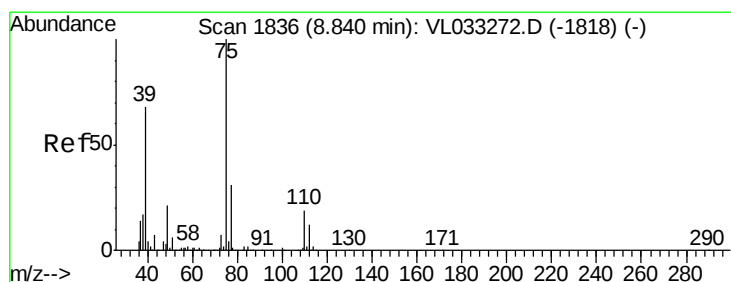
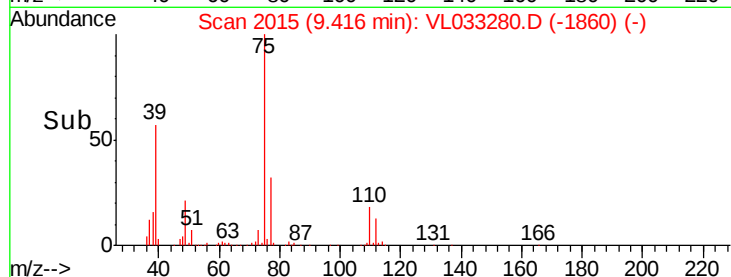
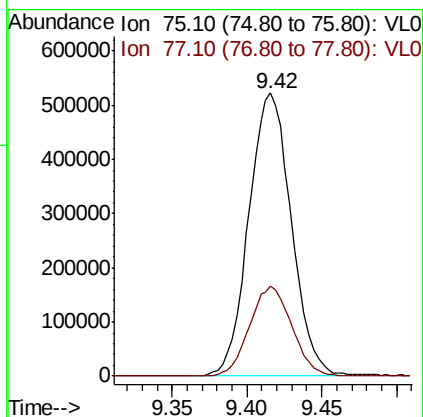
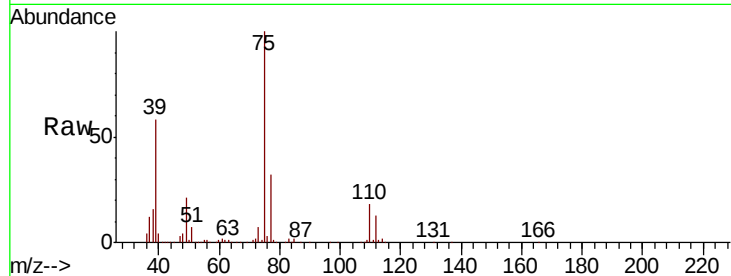
#45  
t-1,3-Dichloropropene  
Concen: 10.870 ppbv  
RT: 9.42 min Scan# 2015  
Delta R.T. -0.00 min  
Lab File: VL033280.D  
Acq: 12 Mar 2019 10:04

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL031219

Tgt Ion: 75 Resp: 1027856  
Ion Ratio Lower Upper  
75 100  
77 32.0 24.4 36.6

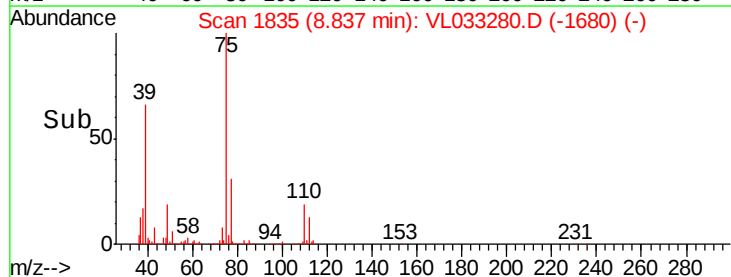
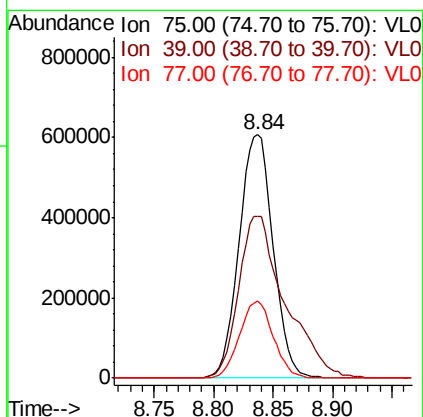
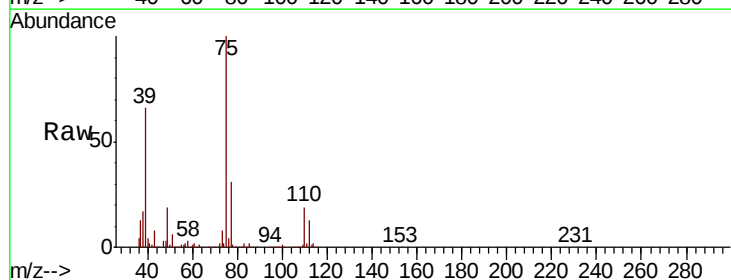
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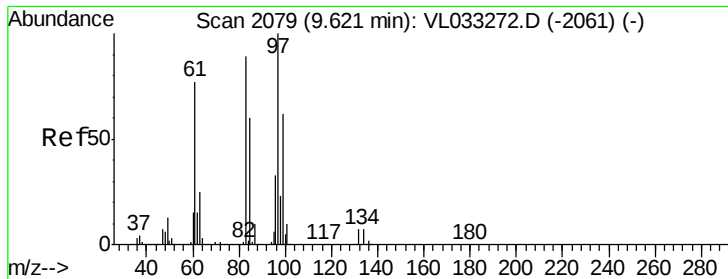
MMDadoda  
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#46  
cis-1,3-Dichloropropene  
Concen: 10.872 ppbv  
RT: 8.84 min Scan# 1835  
Delta R.T. -0.00 min  
Lab File: VL033280.D  
Acq: 12 Mar 2019 10:04

Tgt Ion: 75 Resp: 1204993  
Ion Ratio Lower Upper  
75 100  
39 66.3 54.2 81.2  
77 31.5 24.5 36.7





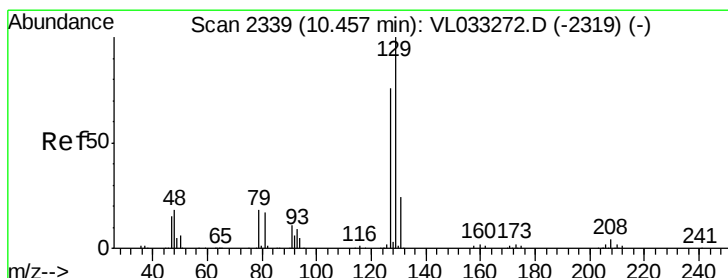
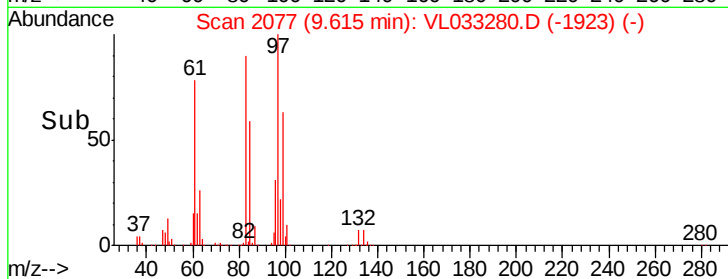
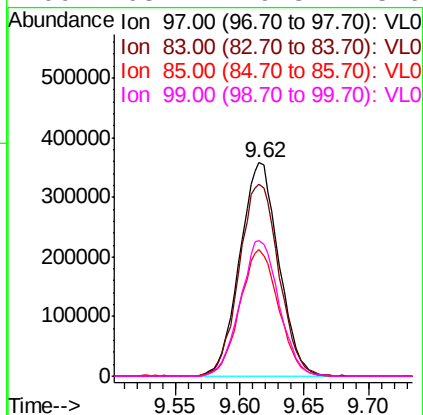
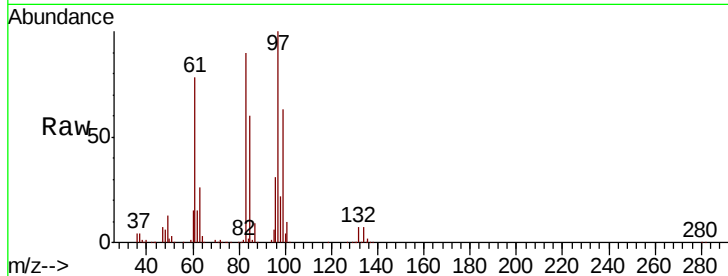
#47  
 1,1,2-Trichloroethane  
 Concen: 9.497 ppbv  
 RT: 9.62 min Scan# 2077  
 Delta R.T. -0.01 min  
 Lab File: VL033280.D  
 Acq: 12 Mar 2019 10:04

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL031219

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 83      | 90.1  | 71.0  | 106.4 |
| 85      | 59.4  | 48.2  | 72.4  |
| 99      | 63.4  | 49.3  | 73.9  |

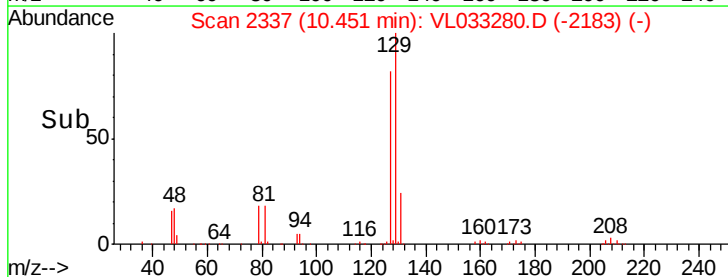
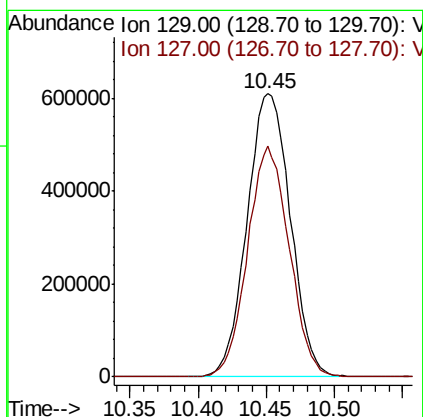
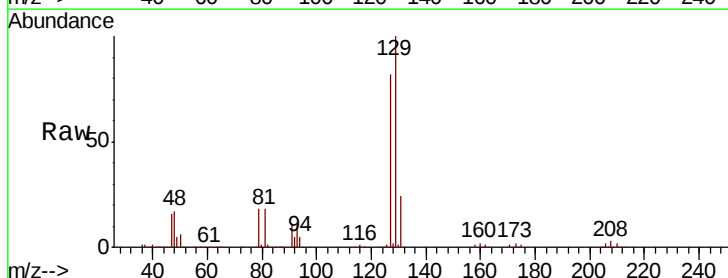
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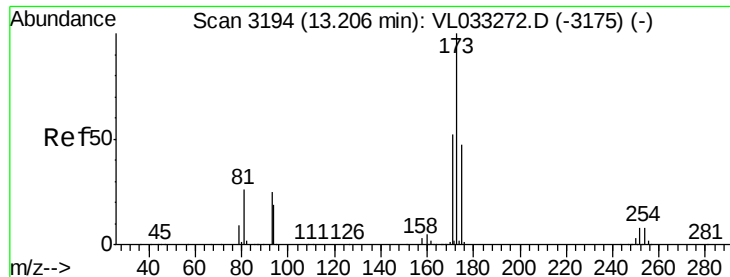
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#48  
 Dibromochloromethane  
 Concen: 10.358 ppbv  
 RT: 10.45 min Scan# 2337  
 Delta R.T. -0.01 min  
 Lab File: VL033280.D  
 Acq: 12 Mar 2019 10:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 129     | 100   |       |       |
| 127     | 78.5  | 38.9  | 116.6 |





#49

Bromoform

Concen: 11.236 ppbv

RT: 13.20 min Scan# 3193

Delta R.T. -0.00 min

Lab File: VL033280.D

Acq: 12 Mar 2019 10:04

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL031219

Tgt Ion:173 Resp: 1184123

Ion Ratio Lower Upper

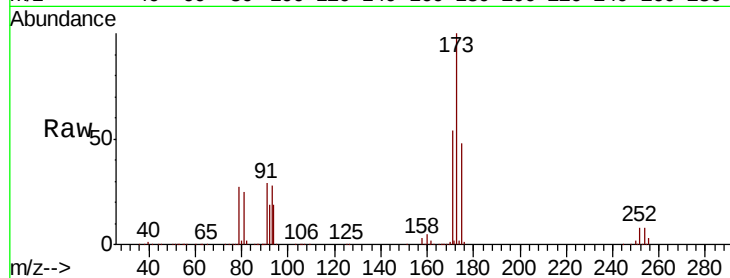
173 100

175 48.1 39.0 58.6

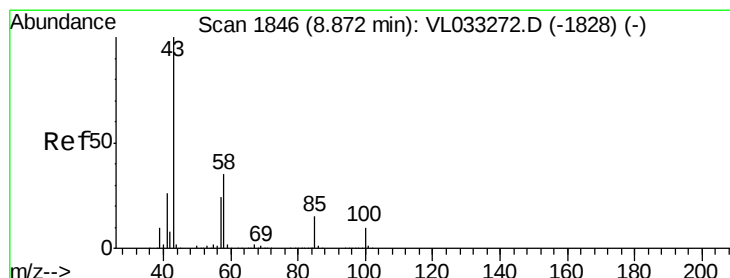
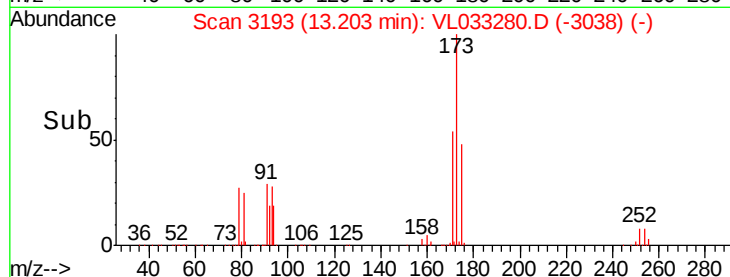
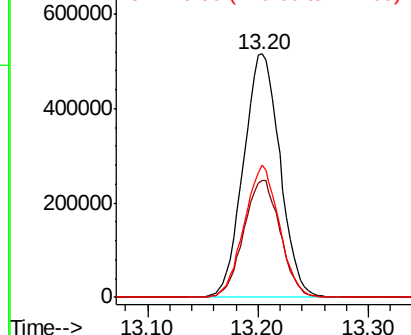
171 52.1 41.2 61.8

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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: 9.668 ppbv

RT: 8.87 min Scan# 1845

Delta R.T. -0.00 min

Lab File: VL033280.D

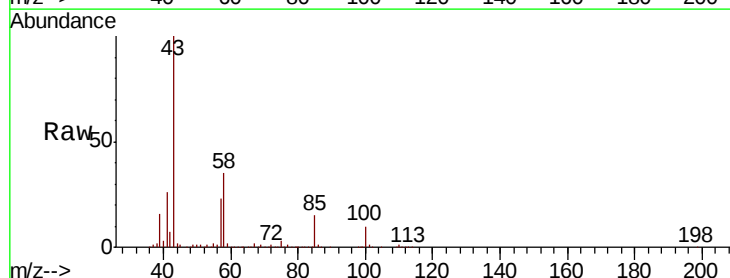
Acq: 12 Mar 2019 10:04

Tgt Ion: 43 Resp: 1952355

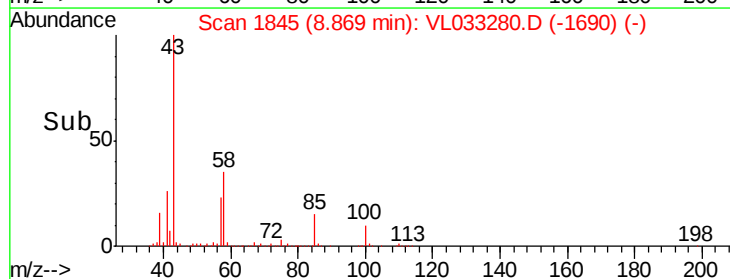
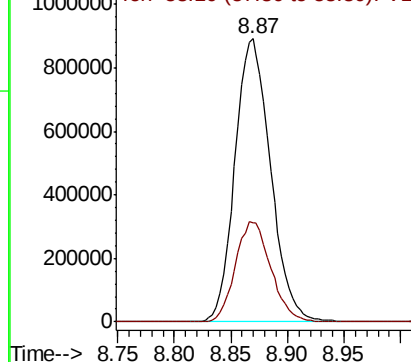
Ion Ratio Lower Upper

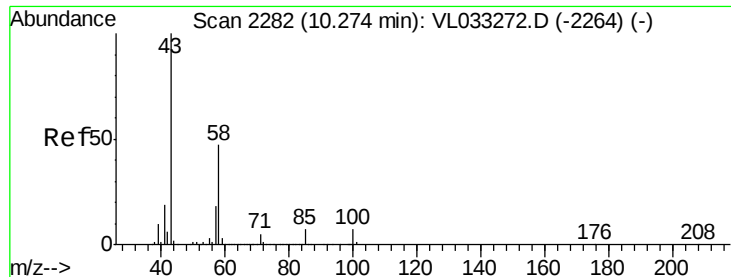
43 100

58 35.4 28.0 42.0



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





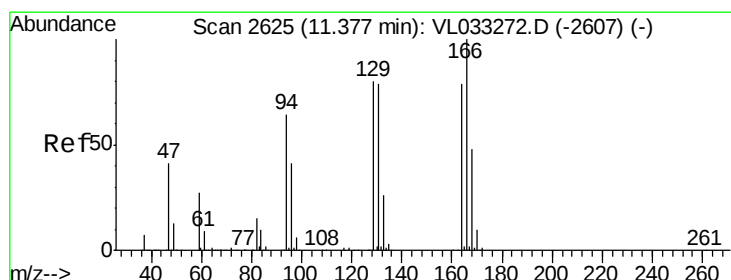
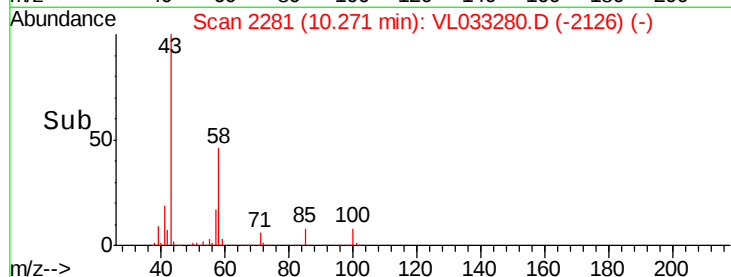
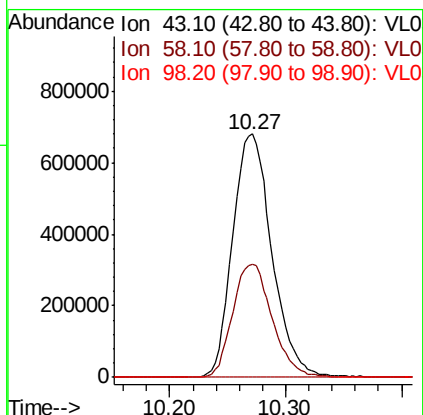
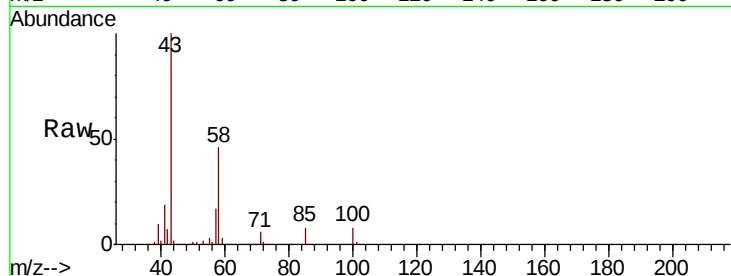
#51  
2-Hexanone  
Concen: 10.326 ppbv  
RT: 10.27 min Scan# 2281  
Delta R.T. -0.00 min  
Lab File: VL033280.D  
Acq: 12 Mar 2019 10:04

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL031219

Tgt Ion: 43 Resp: 1591787  
Ion Ratio Lower Upper  
43 100  
58 47.0 38.1 57.1  
98 0.1 0.1 0.1

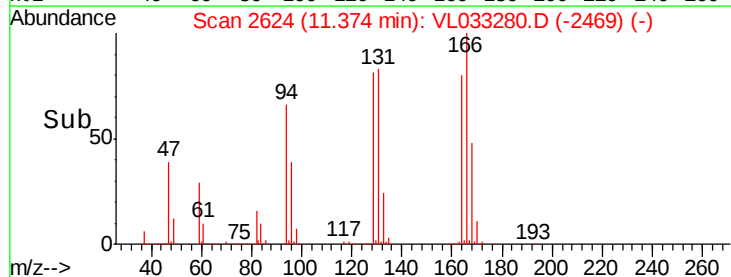
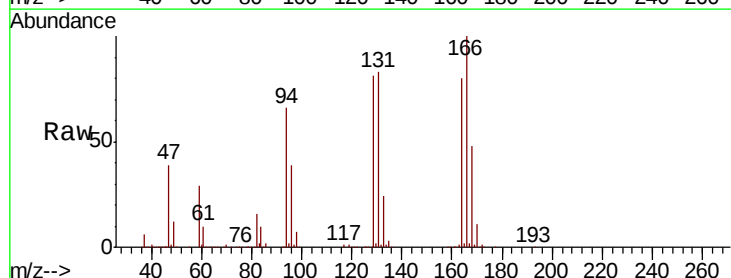
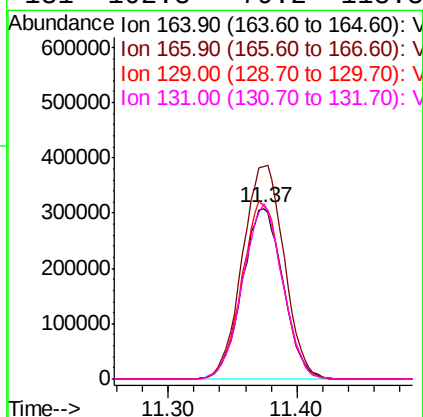
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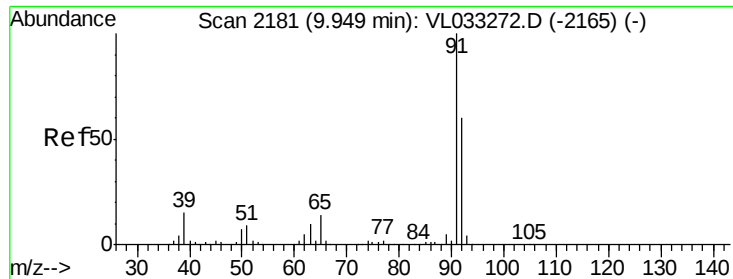
MMDadoda  
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#52  
Tetrachloroethene  
Concen: 9.419 ppbv  
RT: 11.37 min Scan# 2624  
Delta R.T. -0.00 min  
Lab File: VL033280.D  
Acq: 12 Mar 2019 10:04

Tgt Ion: 164 Resp: 681365  
Ion Ratio Lower Upper  
164 100  
166 124.5 100.8 151.2  
129 101.2 80.6 121.0  
131 102.8 79.2 118.8





#53

Toluene

Concen: 9.876 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.00 min

Lab File: VL033280.D

Acq: 12 Mar 2019 10:04

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL031219

Tgt Ion: 91 Resp: 2246585

Ion Ratio Lower Upper

91 100

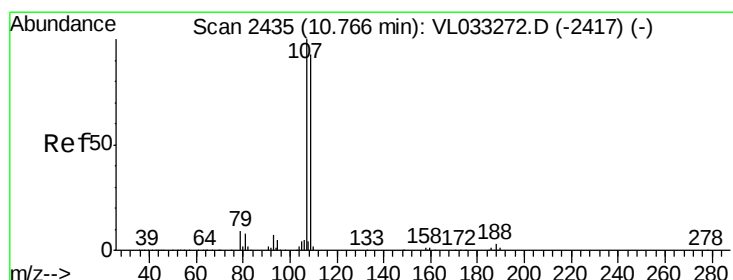
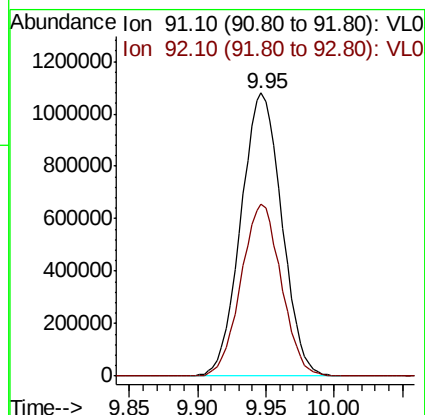
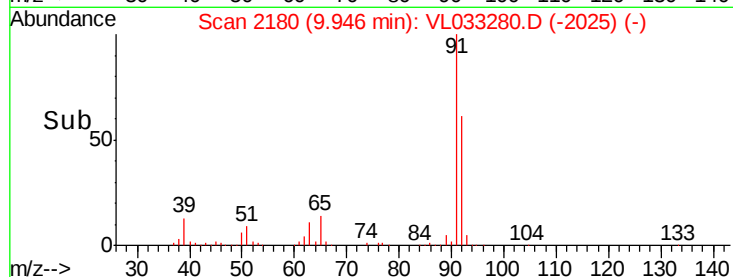
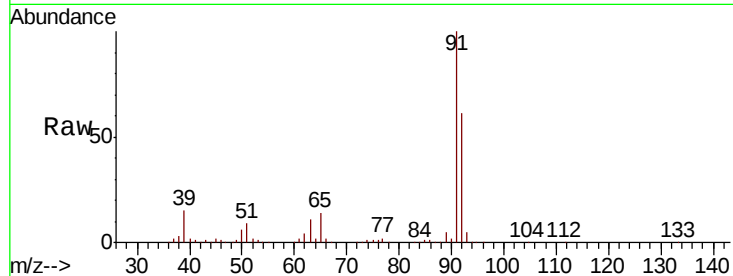
92 59.9 47.8 71.8

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 9.971 ppbv

RT: 10.76 min Scan# 2433

Delta R.T. -0.01 min

Lab File: VL033280.D

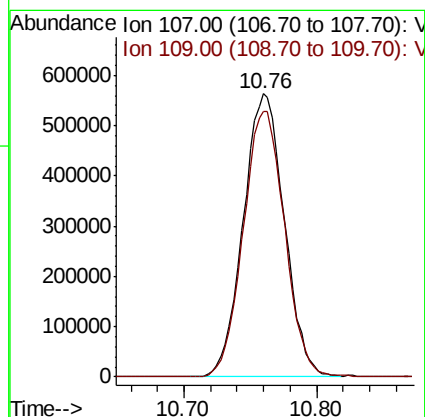
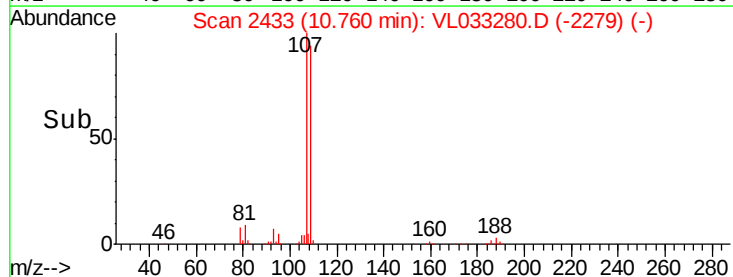
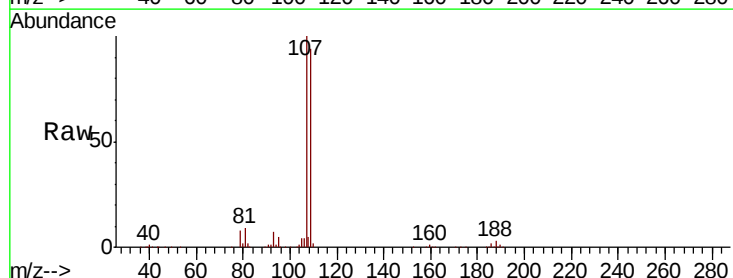
Acq: 12 Mar 2019 10:04

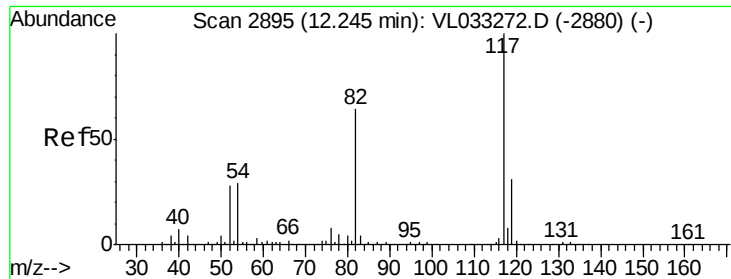
Tgt Ion: 107 Resp: 1215340

Ion Ratio Lower Upper

107 100

109 93.8 74.2 111.2





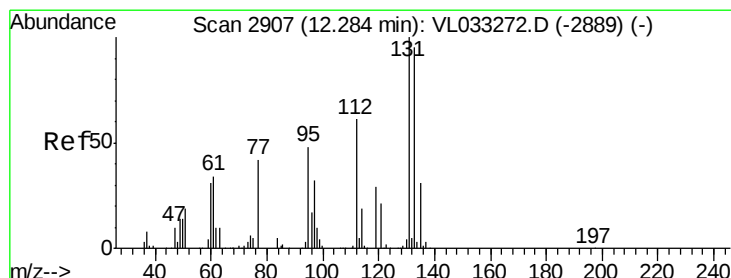
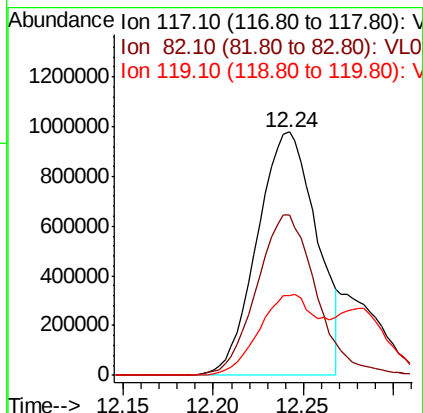
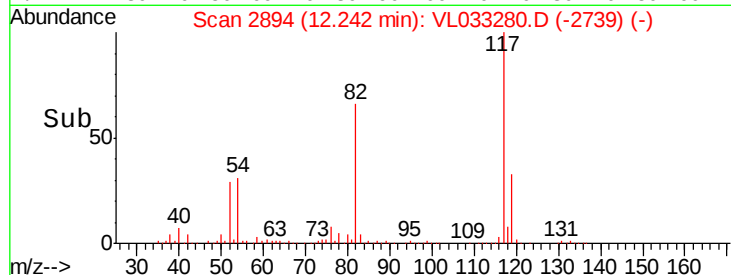
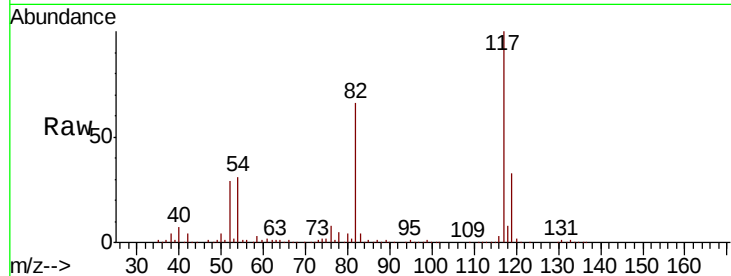
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv m  
RT: 12.24 min Scan# 2894  
Delta R.T. -0.00 min  
Lab File: VL033280.D  
Acq: 12 Mar 2019 10:04

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL031219

Tgt Ion:117 Resp: 2230681  
Ion Ratio Lower Upper  
117 100  
82 66.9 51.1 76.7  
119 32.0 43.6 65.4#

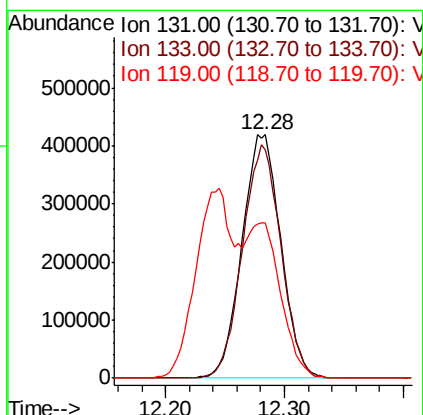
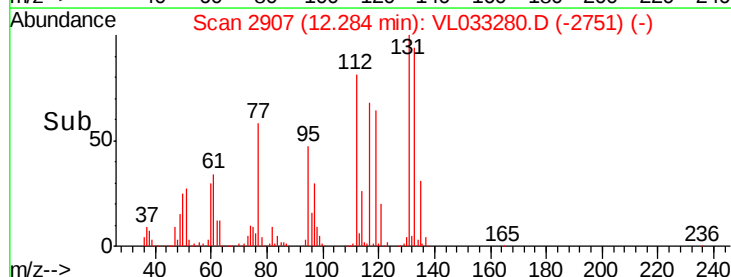
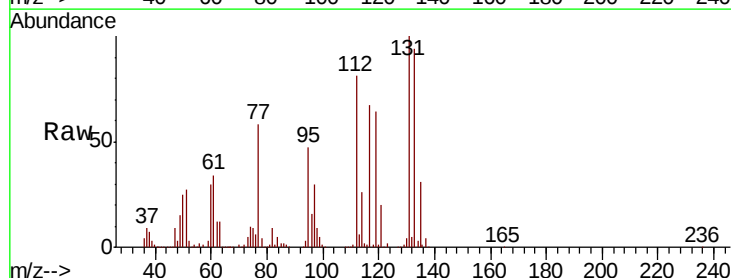
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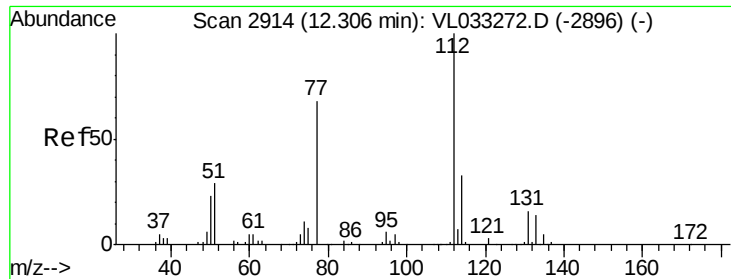
MMDadoda  
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#56  
1,1,1,2-Tetrachloroethane  
Concen: 9.972 ppbv  
RT: 12.28 min Scan# 2907  
Delta R.T. 0.00 min  
Lab File: VL033280.D  
Acq: 12 Mar 2019 10:04

Tgt Ion:131 Resp: 945580  
Ion Ratio Lower Upper  
131 100  
133 95.3 76.2 114.4  
119 55.5 110.3 165.5#





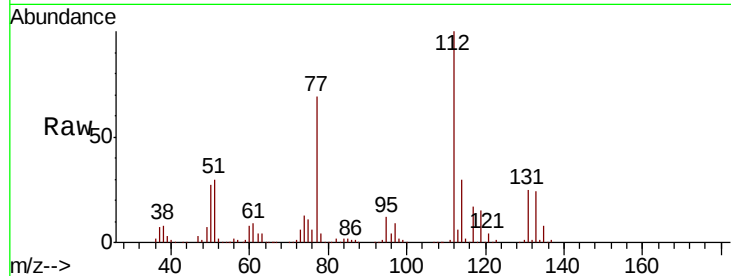
#57  
Chlorobenzene  
Concen: 9.586 ppbv  
RT: 12.30 min Scan# 2912  
Delta R.T. -0.01 min  
Lab File: VL033280.D  
Acq: 12 Mar 2019 10:04

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL031219

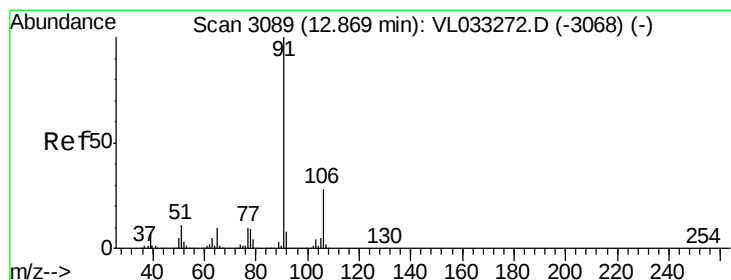
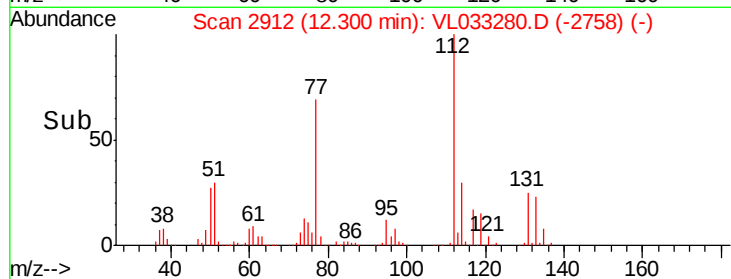
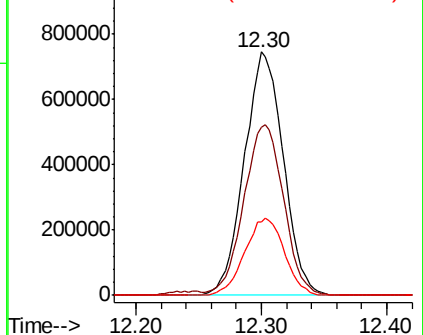
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 77      | 69.0  | 55.8  | 83.8  |
| 114     | 30.2  | 29.5  | 36.1  |

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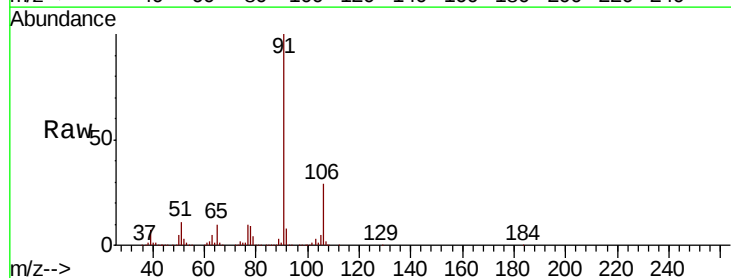


Abundance Ion 112.10 (111.80 to 112.80): V  
Ion 77.10 (76.80 to 77.80): VL0  
Ion 114.10 (113.80 to 114.80): V

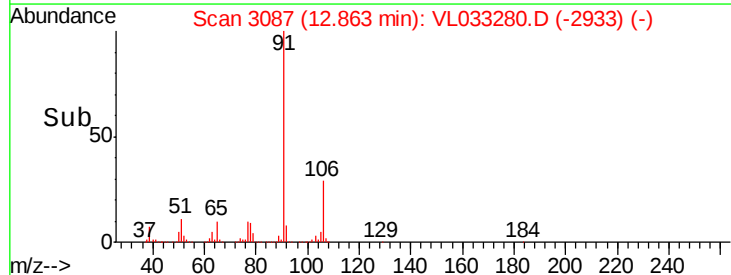
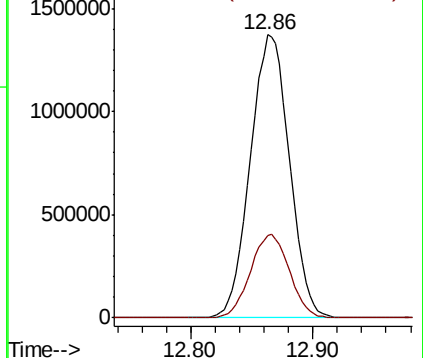


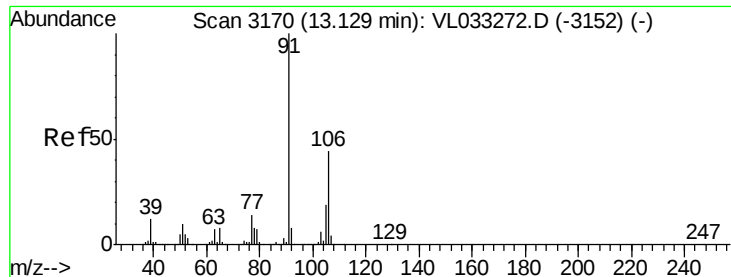
#58  
Ethyl Benzene  
Concen: 9.912 ppbv  
RT: 12.86 min Scan# 3087  
Delta R.T. -0.01 min  
Lab File: VL033280.D  
Acq: 12 Mar 2019 10:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 106     | 28.9  | 22.5  | 33.7  |



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





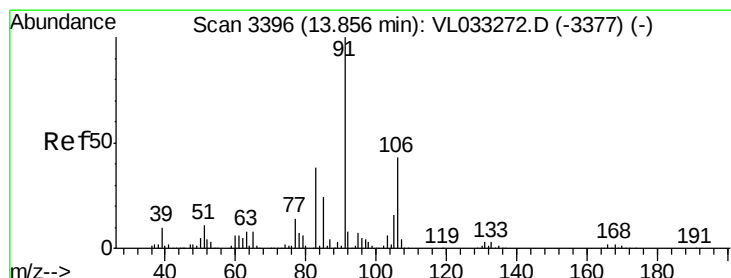
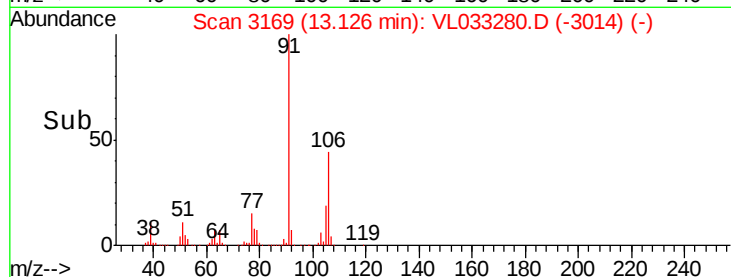
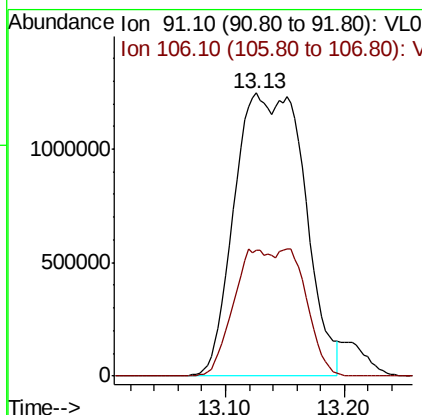
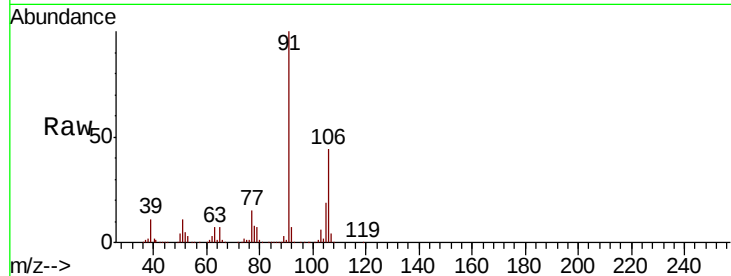
#59  
m/p-Xylene  
Concen: 19.774 ppbv m  
RT: 13.13 min Scan# 3169  
Delta R.T. -0.00 min  
Lab File: VL033280.D  
Acq: 12 Mar 2019 10:04

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL031219

Tgt Ion: 91 Resp: 5069120  
Ion Ratio Lower Upper  
91 100  
106 0.0 35.5 53.3#

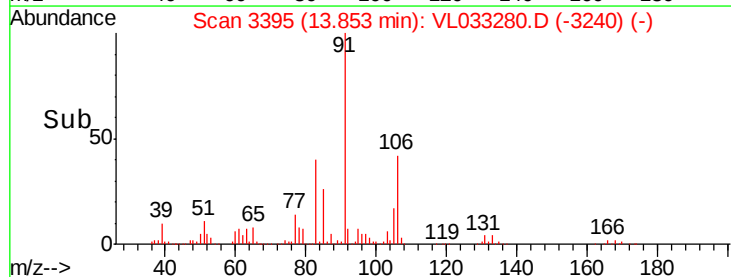
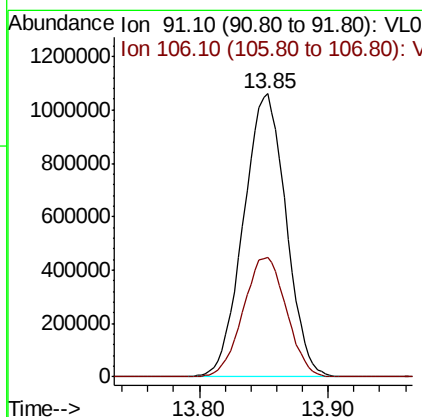
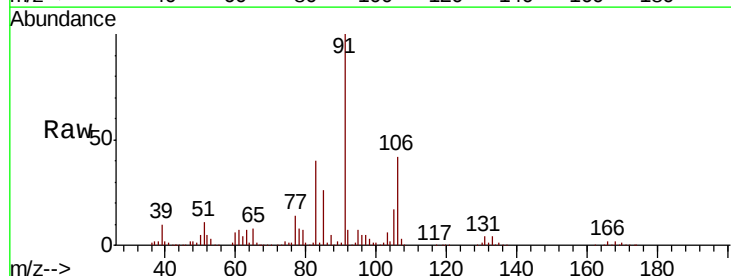
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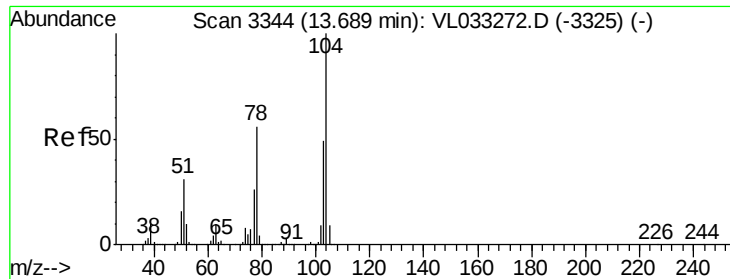
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#60  
o-Xylene  
Concen: 9.890 ppbv  
RT: 13.85 min Scan# 3395  
Delta R.T. -0.00 min  
Lab File: VL033280.D  
Acq: 12 Mar 2019 10:04

Tgt Ion: 91 Resp: 2437354  
Ion Ratio Lower Upper  
91 100  
106 42.9 21.3 63.7





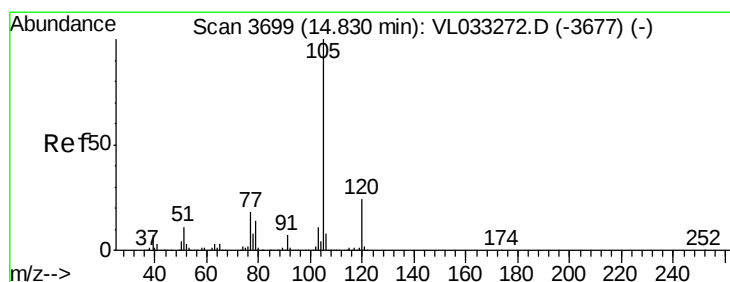
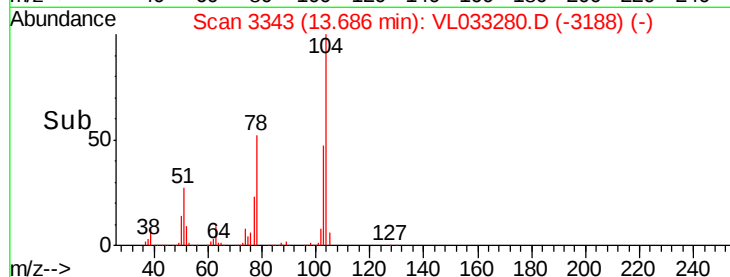
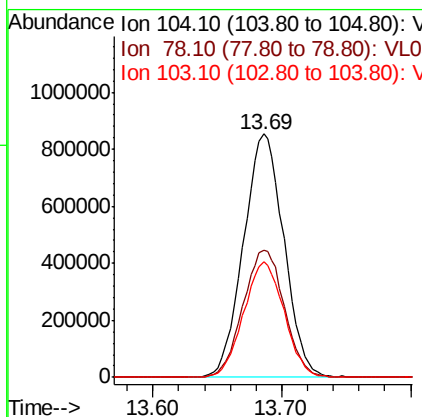
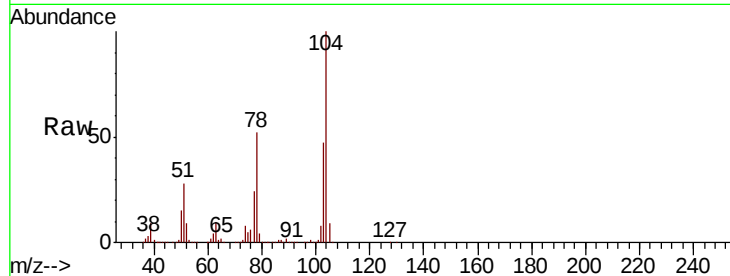
#61  
Styrene  
Concen: 10.614 ppbv  
RT: 13.69 min Scan# 3343  
Delta R.T. -0.00 min  
Lab File: VL033280.D  
Acq: 12 Mar 2019 10:04

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL031219

Tgt Ion:104 Resp: 1863062  
Ion Ratio Lower Upper  
104 100  
78 53.5 43.3 64.9  
103 47.5 38.0 57.0

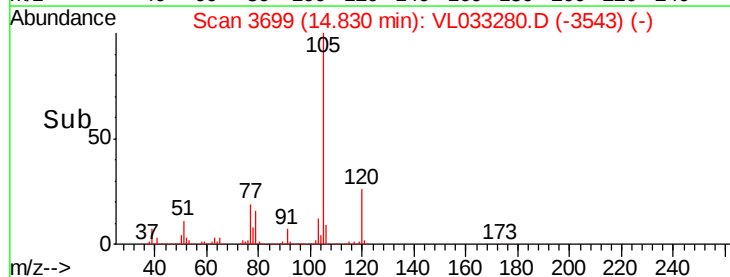
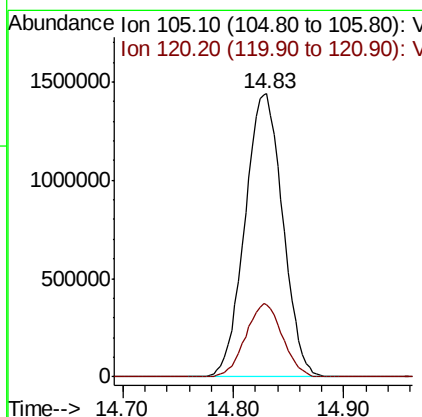
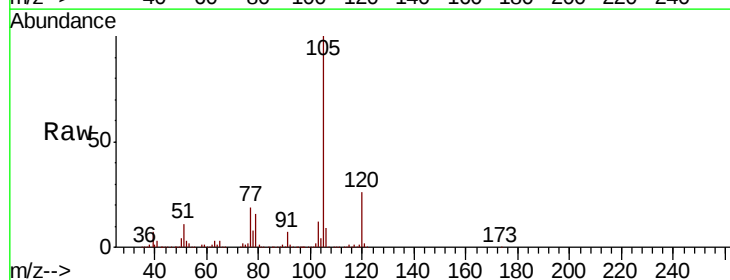
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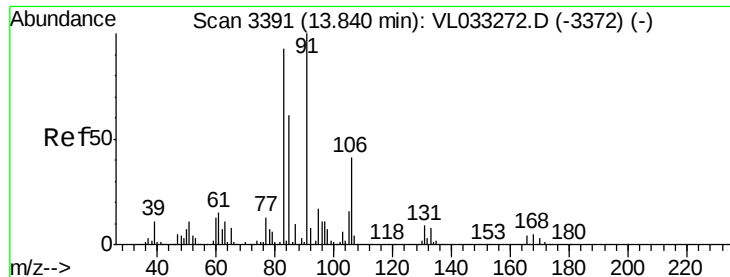
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#62  
Isopropylbenzene  
Concen: 9.961 ppbv  
RT: 14.83 min Scan# 3699  
Delta R.T. 0.00 min  
Lab File: VL033280.D  
Acq: 12 Mar 2019 10:04

Tgt Ion:105 Resp: 3420746  
Ion Ratio Lower Upper  
105 100  
120 25.2 20.0 30.0





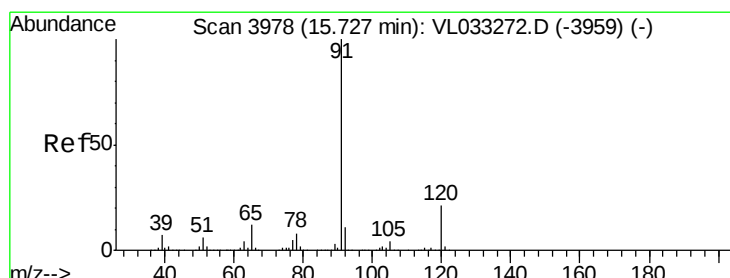
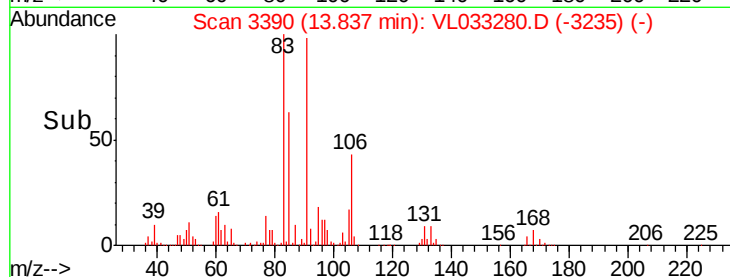
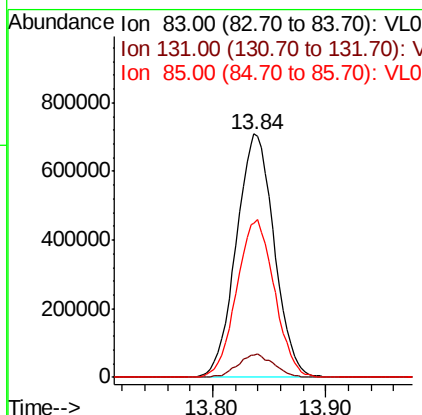
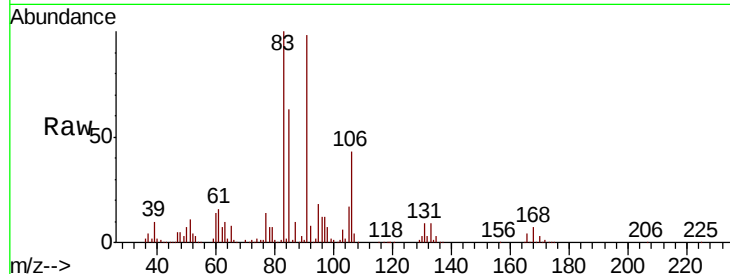
#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 10.007 ppbv  
 RT: 13.84 min Scan# 3390  
 Delta R.T. -0.00 min  
 Lab File: VL033280.D  
 Acq: 12 Mar 2019 10:04

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL031219

Tgt Ion: 83 Resp: 1653207  
 Ion Ratio Lower Upper  
 83 100  
 131 9.2 4.5 13.7  
 85 64.8 32.2 96.6

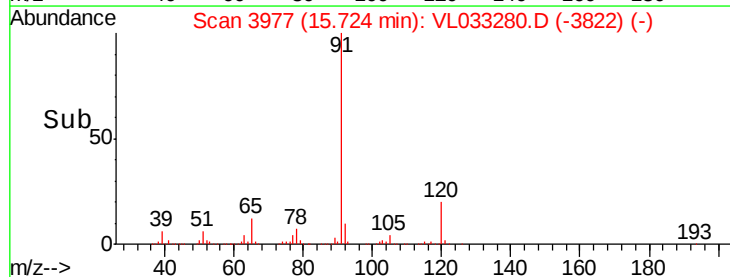
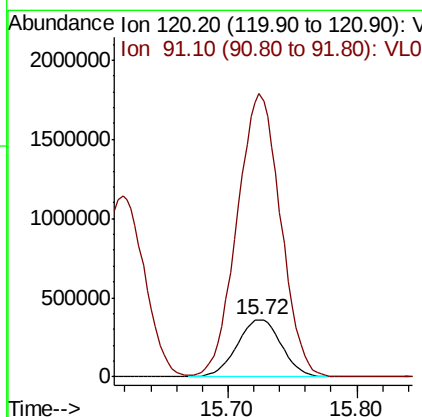
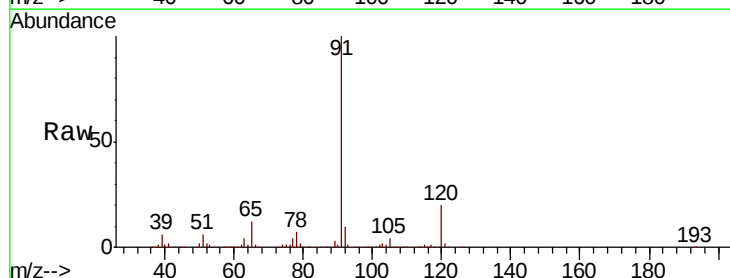
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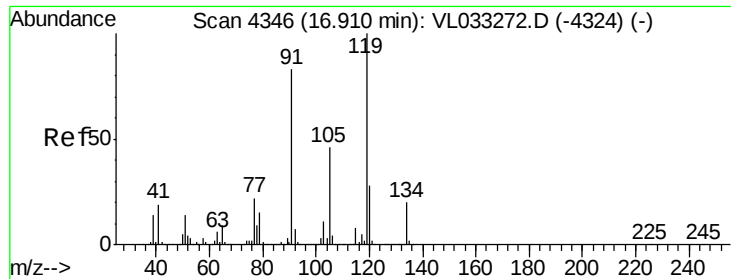
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#64  
 n-propylbenzene  
 Concen: 10.224 ppbv  
 RT: 15.72 min Scan# 3977  
 Delta R.T. -0.00 min  
 Lab File: VL033280.D  
 Acq: 12 Mar 2019 10:04

Tgt Ion: 120 Resp: 863919  
 Ion Ratio Lower Upper  
 120 100  
 91 487.8 385.8 578.8





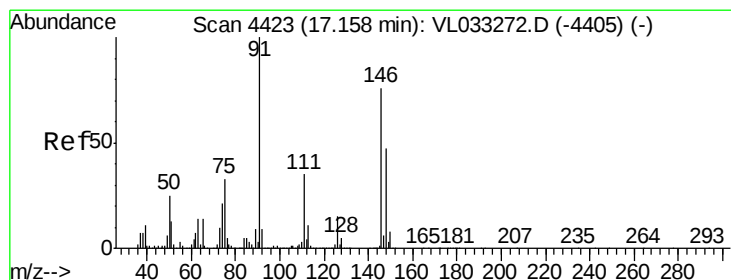
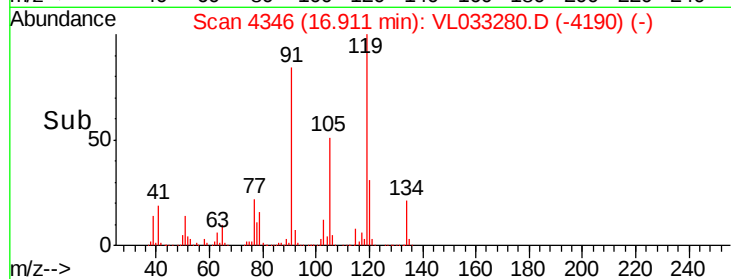
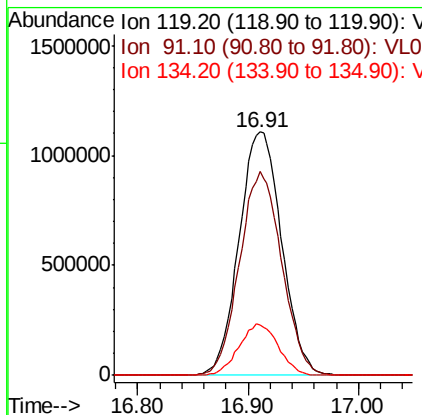
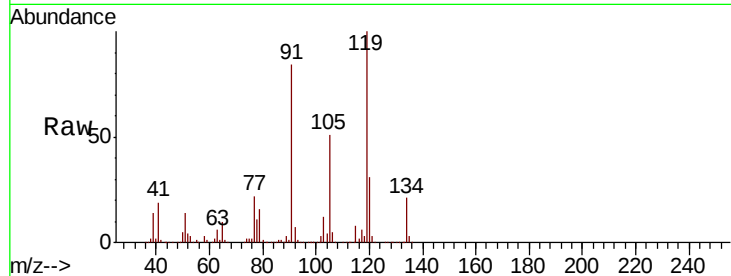
#65  
 tert-Butylbenzene  
 Concen: 10.193 ppbv  
 RT: 16.91 min Scan# 4346  
 Delta R.T. 0.00 min  
 Lab File: VL033280.D  
 Acq: 12 Mar 2019 10:04

Instrument :  
 MSVOA\_L  
 ClientSampled :  
 ICVVL031219

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 91      | 83.1  | 67.3  | 100.9 |
| 134     | 19.5  | 15.4  | 23.2  |

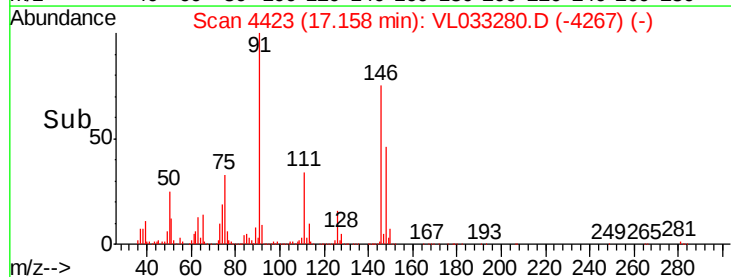
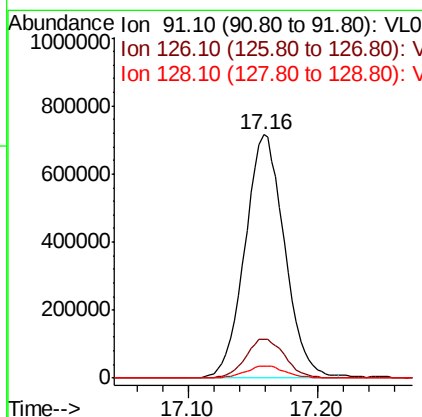
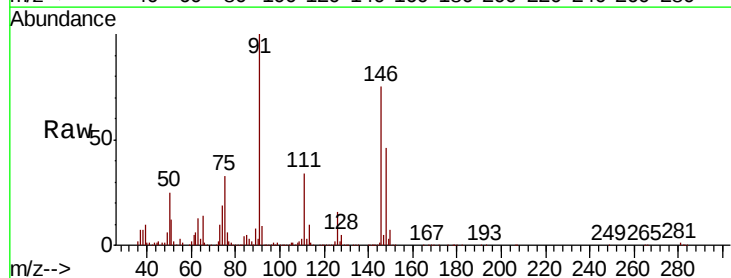
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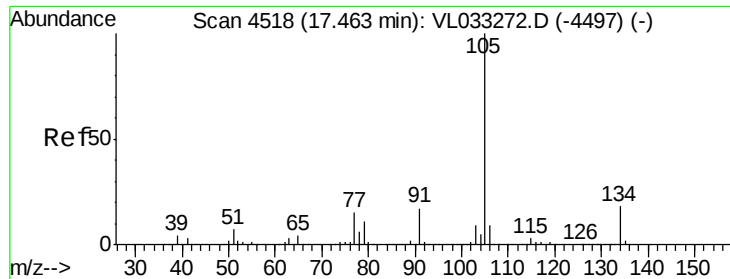
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#66  
 Benzyl Chloride  
 Concen: 13.597 ppbv  
 RT: 17.16 min Scan# 4423  
 Delta R.T. 0.00 min  
 Lab File: VL033280.D  
 Acq: 12 Mar 2019 10:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 126     | 16.1  | 13.0  | 19.6  |
| 128     | 5.2   | 4.3   | 6.5   |





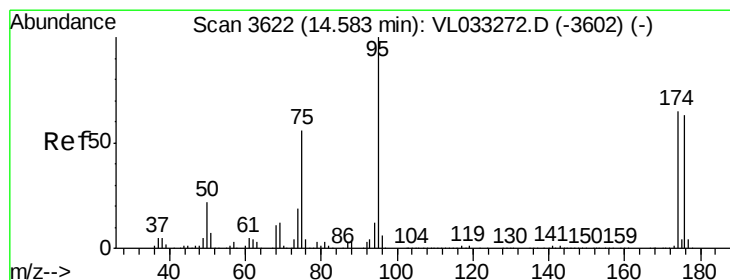
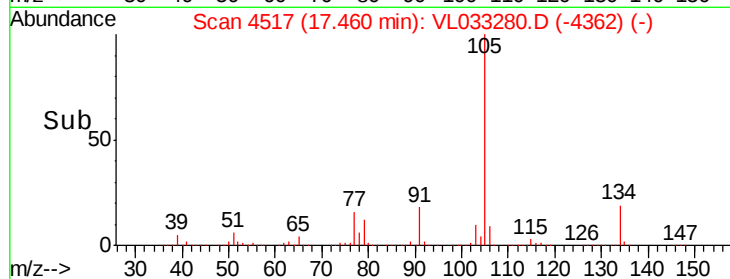
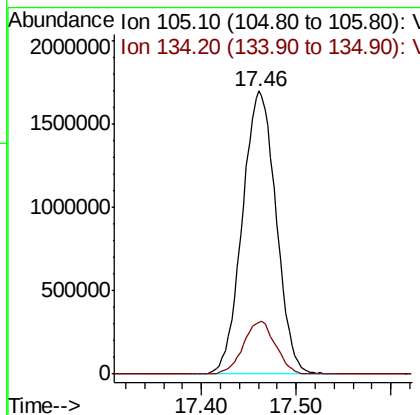
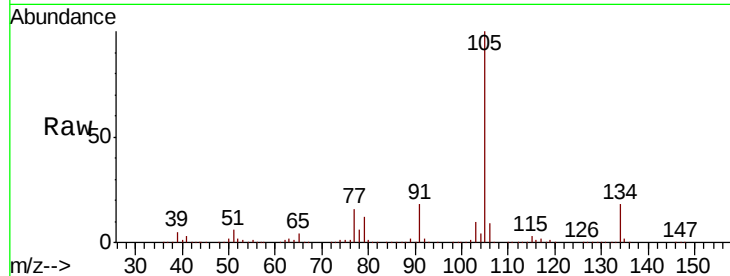
#67  
 sec-Butylbenzene  
 Concen: 10.185 ppbv  
 RT: 17.46 min Scan# 4517  
 Delta R.T. -0.00 min  
 Lab File: VL033280.D  
 Acq: 12 Mar 2019 10:04

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL031219

Tgt Ion: 105 Resp: 4201881  
 Ion Ratio Lower Upper  
 105 100  
 134 17.9 14.2 21.2

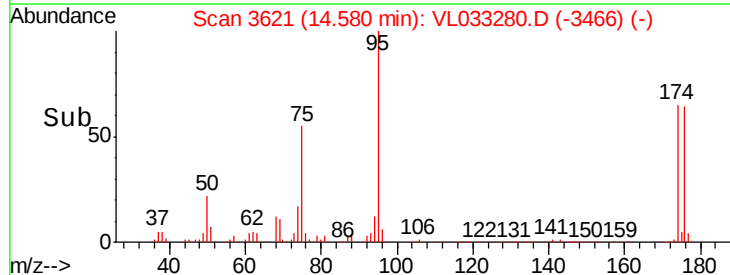
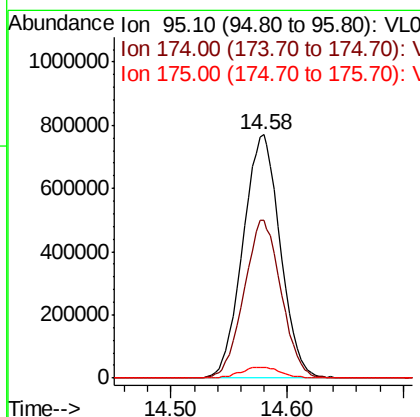
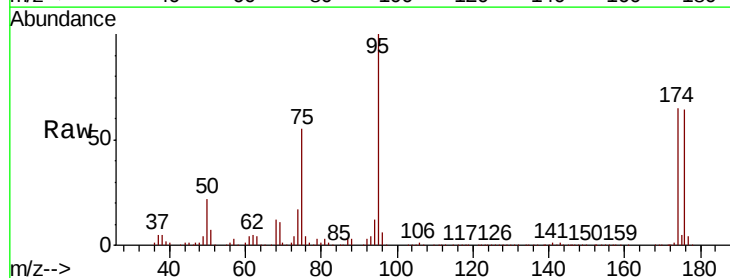
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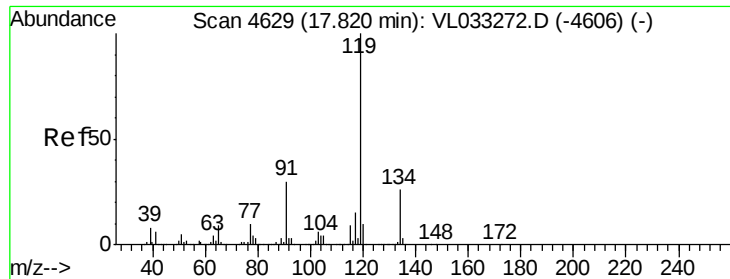
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#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.008 ppbv  
 RT: 14.58 min Scan# 3621  
 Delta R.T. -0.00 min  
 Lab File: VL033280.D  
 Acq: 12 Mar 2019 10:04

Tgt Ion: 95 Resp: 1723968  
 Ion Ratio Lower Upper  
 95 100  
 174 64.7 51.7 77.5  
 175 4.7 3.7 5.5





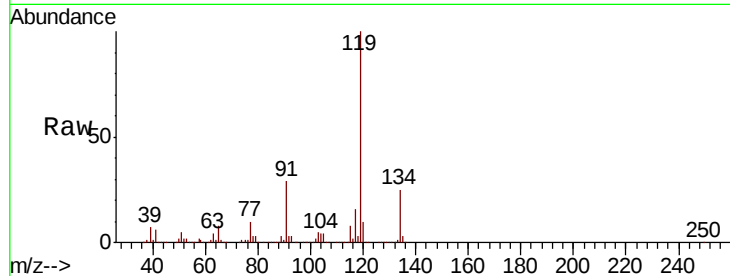
#69  
p-Isopropyltoluene  
Concen: 10.311 ppbv  
RT: 17.82 min Scan# 4628  
Delta R.T. -0.00 min  
Lab File: VL033280.D  
Acq: 12 Mar 2019 10:04

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL031219

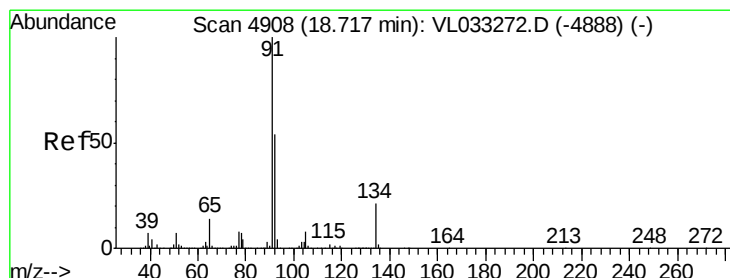
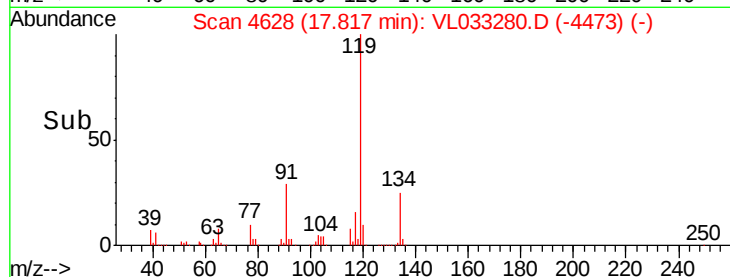
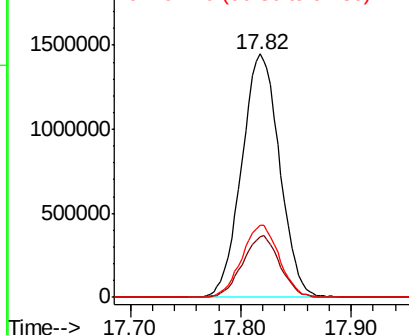
Tgt Ion: 119 Resp: 3436458  
Ion Ratio Lower Upper  
119 100  
134 25.0 19.7 29.5  
91 29.4 23.5 35.3

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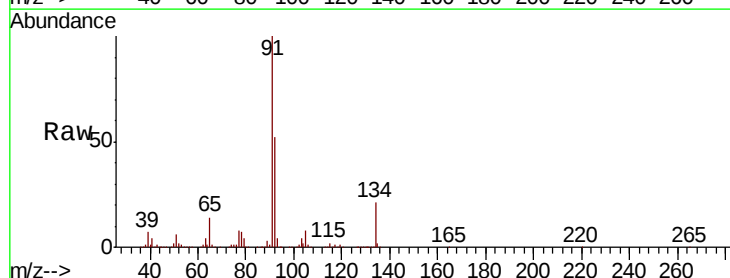


Abundance Ion 119.10 (118.80 to 119.80): V  
2000000 Ion 134.20 (133.90 to 134.90): V  
Ion 91.10 (90.80 to 91.80): V

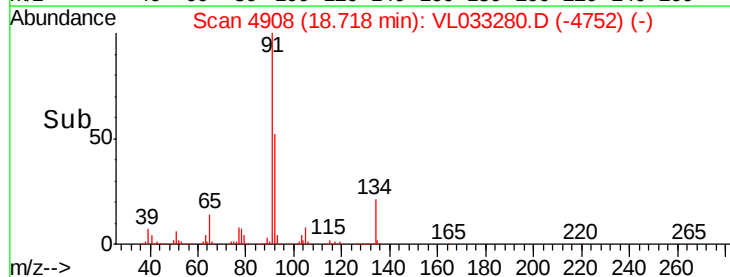
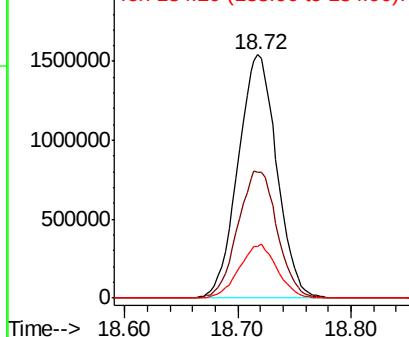


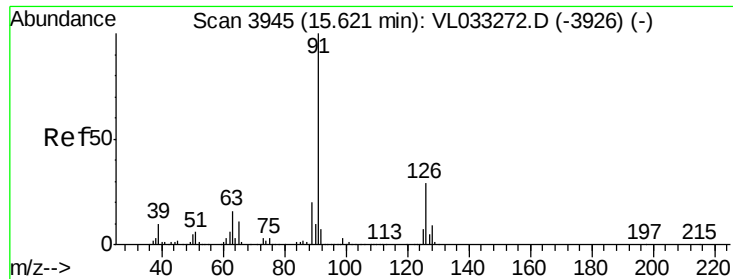
#70  
n-Butylbenzene  
Concen: 10.200 ppbv  
RT: 18.72 min Scan# 4908  
Delta R.T. 0.00 min  
Lab File: VL033280.D  
Acq: 12 Mar 2019 10:04

Tgt Ion: 91 Resp: 3650363  
Ion Ratio Lower Upper  
91 100  
92 53.5 42.4 63.6  
134 21.7 17.1 25.7



Abundance Ion 91.10 (90.80 to 91.80): VL0  
2000000 Ion 92.10 (91.80 to 92.80): VL0  
Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 10.240 ppbv

RT: 15.62 min Scan# 3944

Delta R.T. -0.00 min

Lab File: VL033280.D

Acq: 12 Mar 2019 10:04

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL031219

Tgt Ion: 91 Resp: 2650815

Ion Ratio Lower Upper

91 100

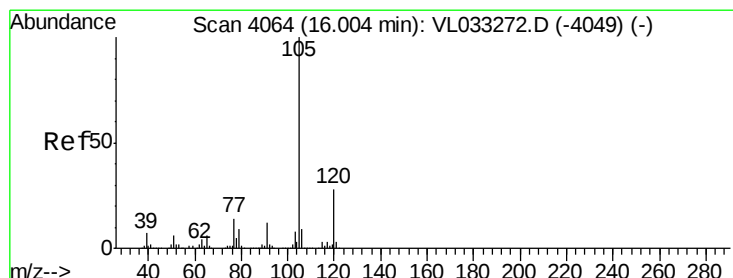
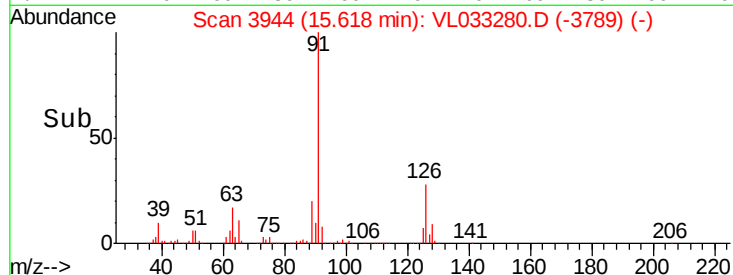
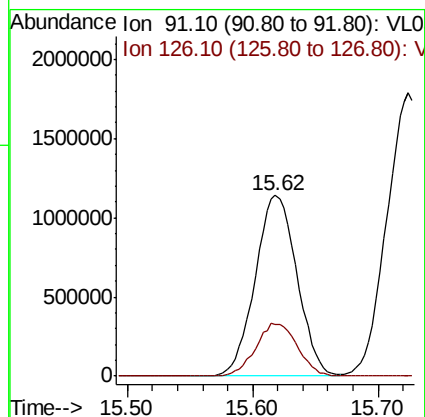
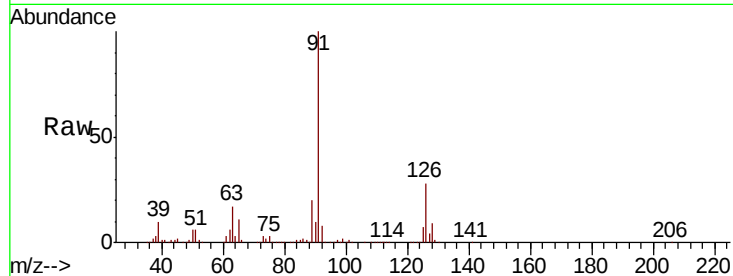
126 29.1 11.7 46.7

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#72

4-Ethyltoluene

Concen: 10.614 ppbv

RT: 16.00 min Scan# 4063

Delta R.T. -0.00 min

Lab File: VL033280.D

Acq: 12 Mar 2019 10:04

Tgt Ion: 105 Resp: 2825510

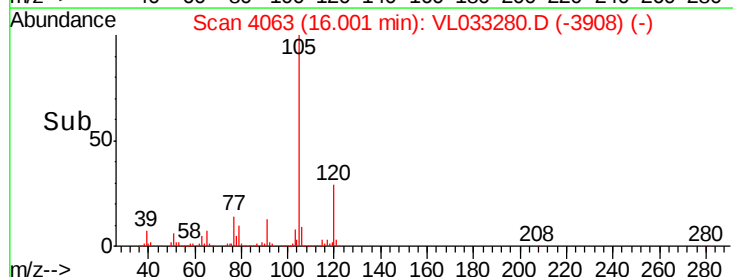
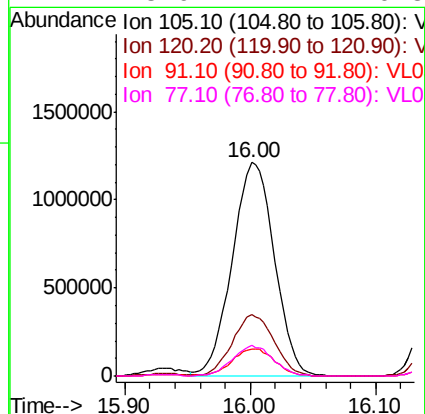
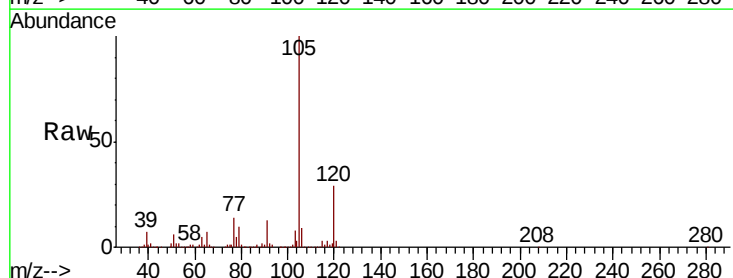
Ion Ratio Lower Upper

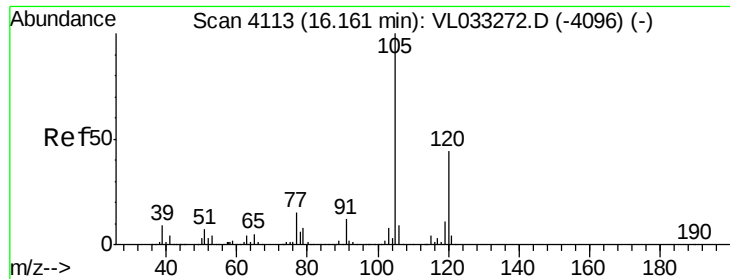
105 100

120 28.5 22.9 34.3

91 12.7 10.2 15.2

77 13.9 11.2 16.8





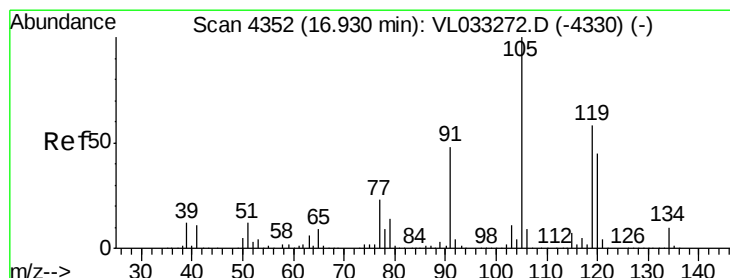
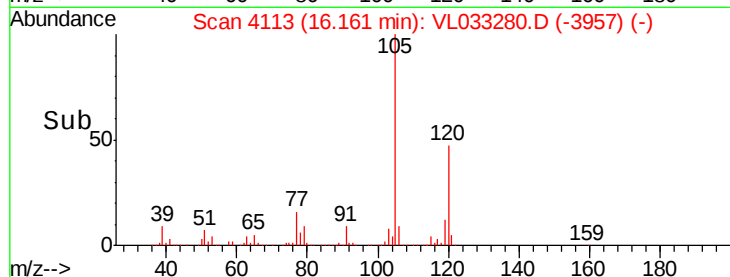
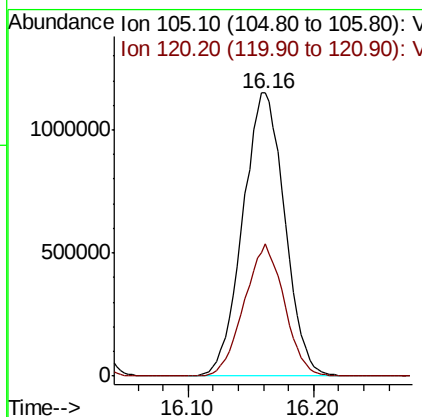
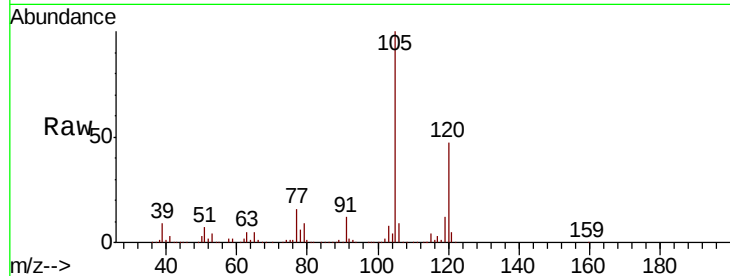
#73  
 1,3,5-Trimethylbenzene  
 Concen: 10.610 ppbv  
 RT: 16.16 min Scan# 4113  
 Delta R.T. 0.00 min  
 Lab File: VL033280.D  
 Acq: 12 Mar 2019 10:04

Instrument :  
 MSVOA\_L  
 ClientSampled :  
 ICVVL031219

Tgt Ion:105 Resp: 2661523  
 Ion Ratio Lower Upper  
 105 100  
 120 46.7 35.1 52.7

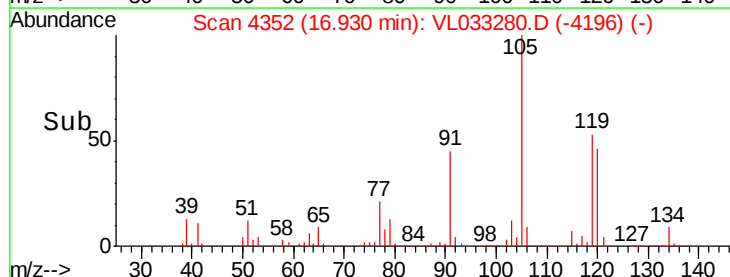
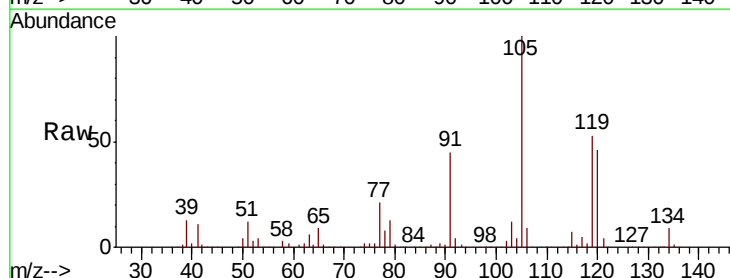
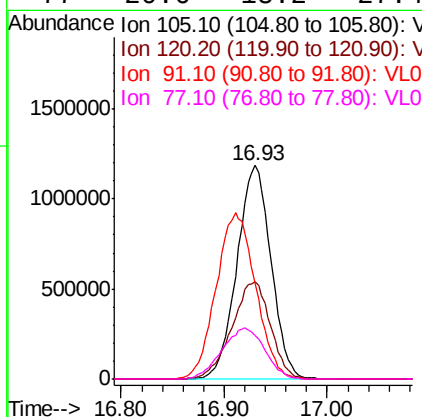
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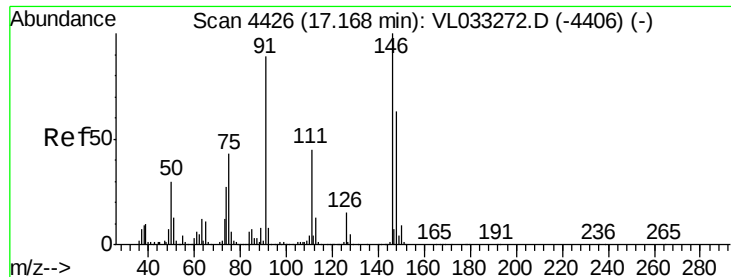
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#74  
 1,2,4-Trimethylbenzene  
 Concen: 10.620 ppbv  
 RT: 16.93 min Scan# 4352  
 Delta R.T. 0.00 min  
 Lab File: VL033280.D  
 Acq: 12 Mar 2019 10:04

Tgt Ion:105 Resp: 2713127  
 Ion Ratio Lower Upper  
 105 100  
 120 45.6 36.1 54.1  
 91 45.2 38.6 58.0  
 77 20.6 18.2 27.4





#75

1,3-Dichlorobenzene

Concen: 10.205 ppbv

RT: 17.17 min Scan# 4426

Delta R.T. 0.00 min

Lab File: VL033280.D

Acq: 12 Mar 2019 10:04

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL031219

Tgt Ion:146 Resp: 1562599

Ion Ratio Lower Upper

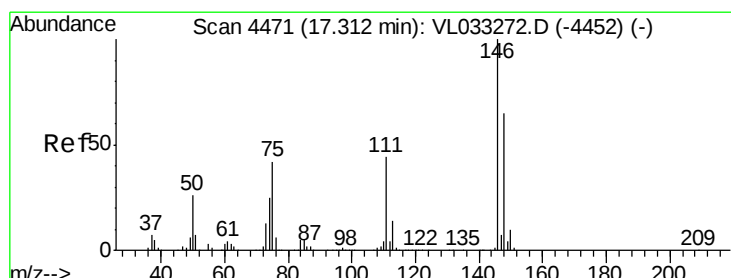
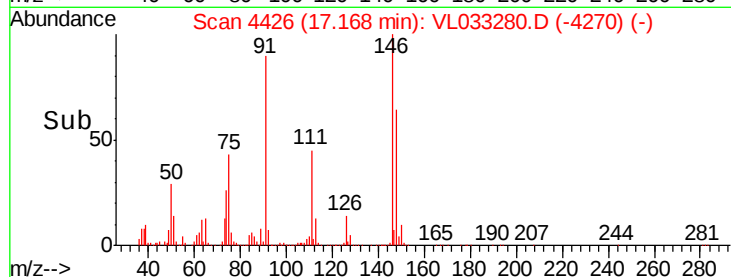
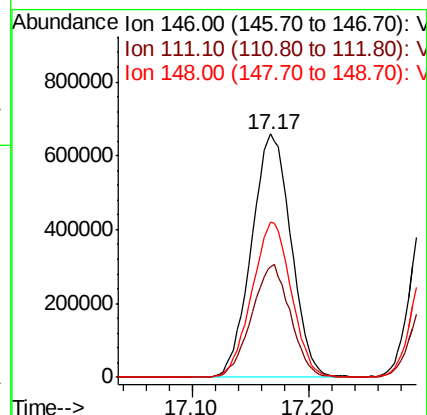
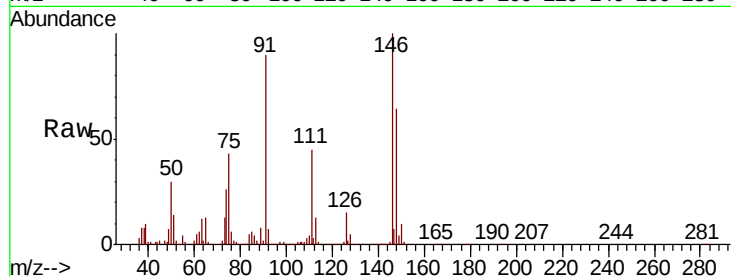
146 100

111 45.5 22.8 68.4

148 63.6 31.8 95.3

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#76

1,4-Dichlorobenzene

Concen: 10.339 ppbv

RT: 17.31 min Scan# 4471

Delta R.T. 0.00 min

Lab File: VL033280.D

Acq: 12 Mar 2019 10:04

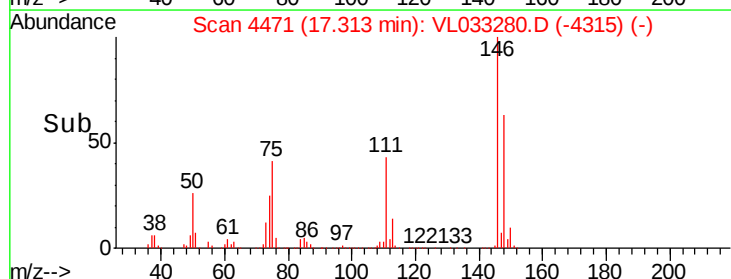
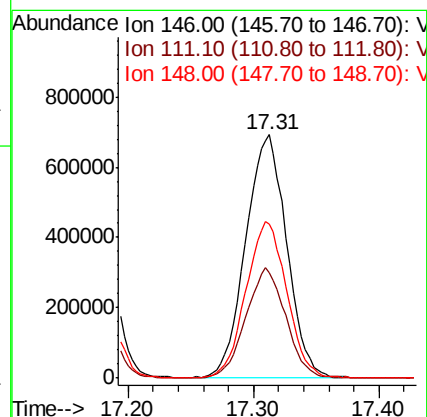
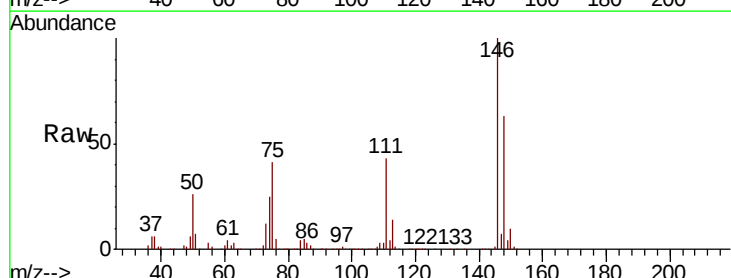
Tgt Ion:146 Resp: 1565492

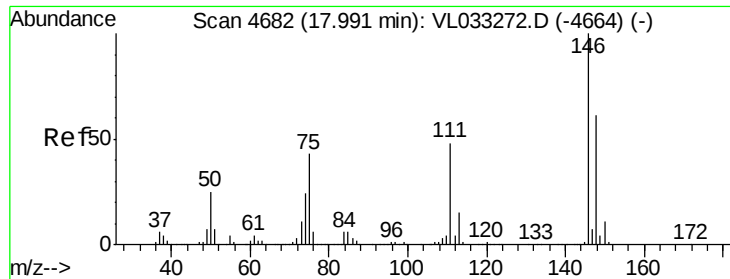
Ion Ratio Lower Upper

146 100

111 44.4 22.1 66.1

148 64.3 31.8 95.3





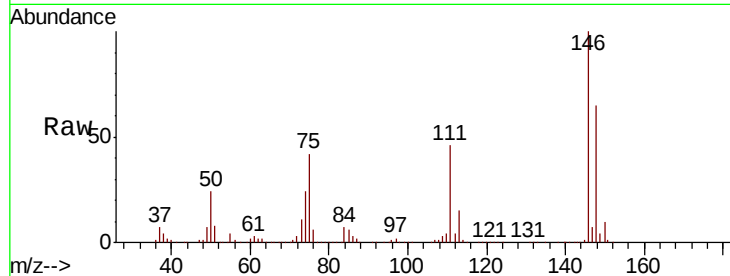
#77  
 1,2-Dichlorobenzene  
 Concen: 9.864 ppbv  
 RT: 17.99 min Scan# 4682  
 Delta R.T. 0.00 min  
 Lab File: VL033280.D  
 Acq: 12 Mar 2019 10:04

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL031219

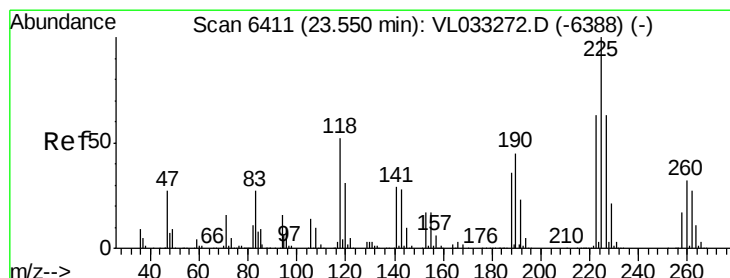
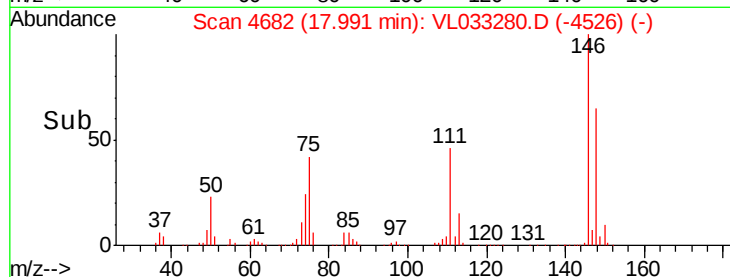
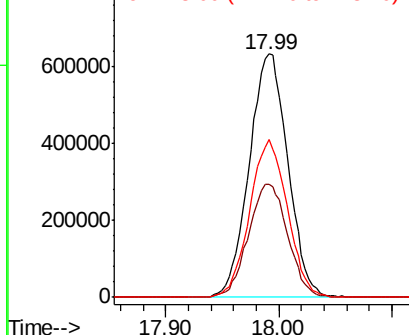
Tgt Ion:146 Resp: 1503606  
 Ion Ratio Lower Upper  
 146 100  
 111 47.2 23.5 70.5  
 148 63.6 31.7 95.1

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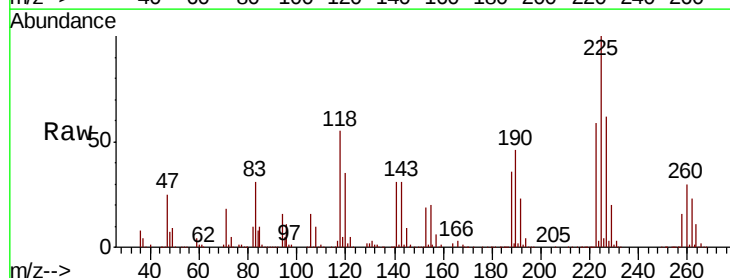


Abundance Ion 146.00 (145.70 to 146.70): V  
 Ion 111.10 (110.80 to 111.80): V  
 Ion 148.00 (147.70 to 148.70): V

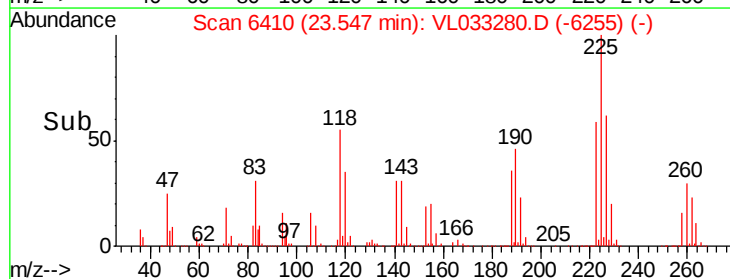
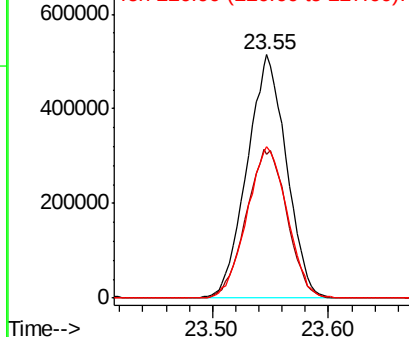


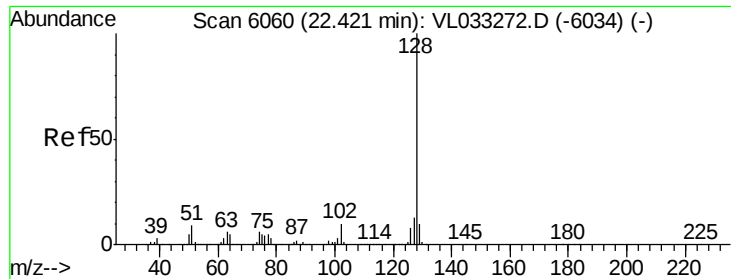
#78  
 Hexachloro-1,3-Butadiene  
 Concen: 9.568 ppbv  
 RT: 23.55 min Scan# 6410  
 Delta R.T. -0.00 min  
 Lab File: VL033280.D  
 Acq: 12 Mar 2019 10:04

Tgt Ion:225 Resp: 1215107  
 Ion Ratio Lower Upper  
 225 100  
 223 63.2 50.3 75.5  
 227 63.4 51.1 76.7



Abundance Ion 224.90 (224.60 to 225.60): V  
 Ion 222.90 (222.60 to 223.60): V  
 Ion 226.90 (226.60 to 227.60): V





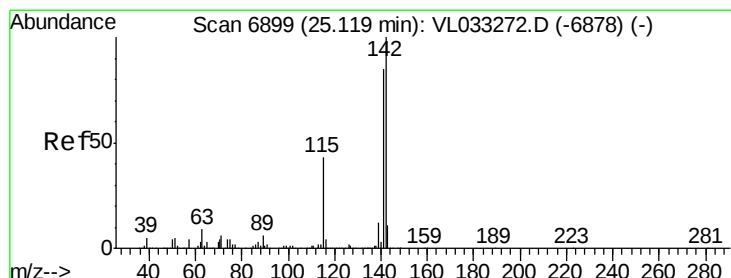
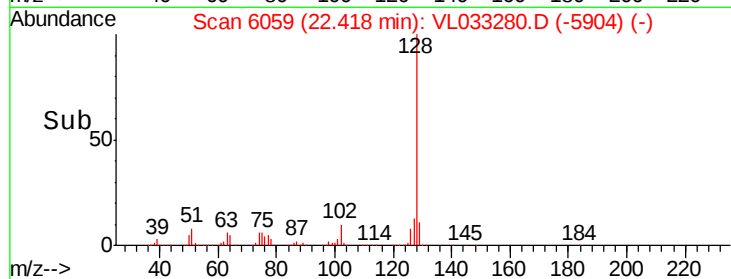
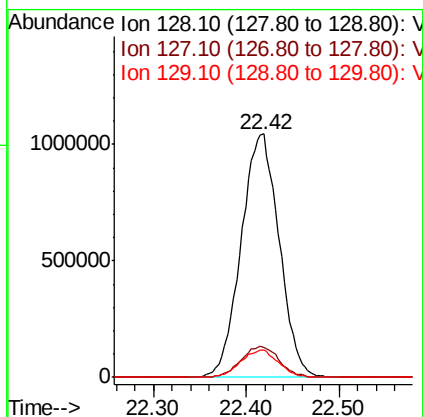
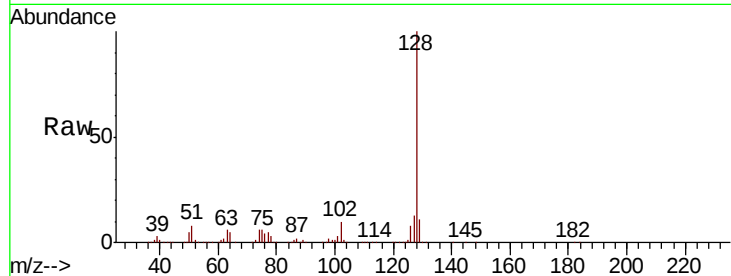
#79  
Naphthalene  
Concen: 10.764 ppbv  
RT: 22.42 min Scan# 6059  
Delta R.T. -0.00 min  
Lab File: VL033280.D  
Acq: 12 Mar 2019 10:04

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL031219

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 12.5  | 10.5  | 15.7  |
| 129     | 11.2  | 8.4   | 12.6  |

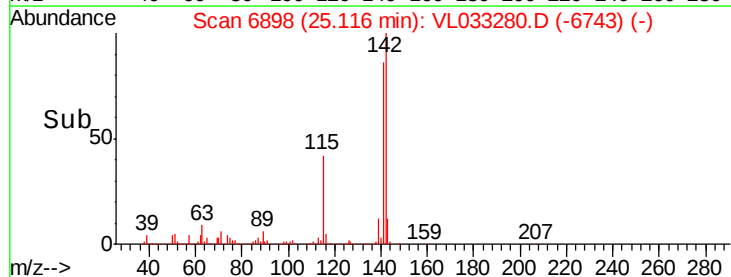
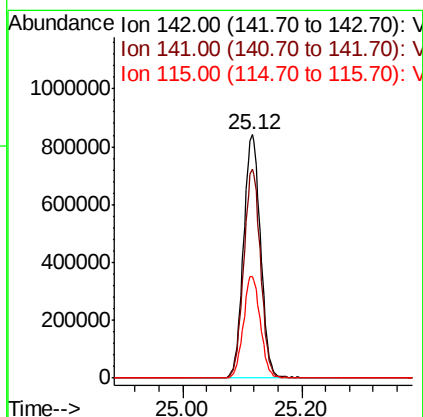
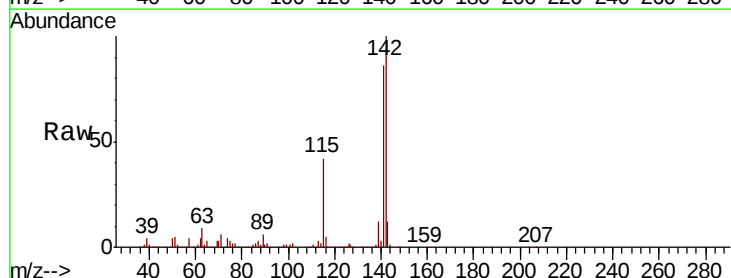
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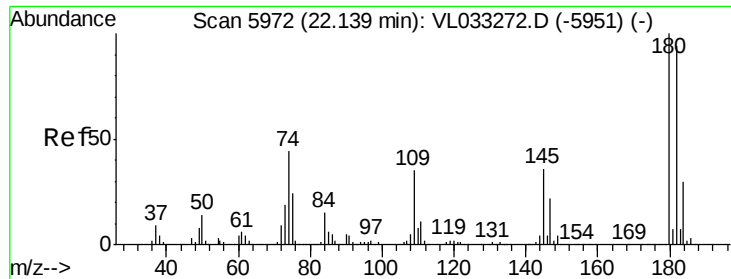
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#80  
Naphthalene, 2-methyl-  
Concen: 22.058 ppbv  
RT: 25.12 min Scan# 6898  
Delta R.T. -0.00 min  
Lab File: VL033280.D  
Acq: 12 Mar 2019 10:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 85.0  | 68.0  | 102.0 |
| 115     | 41.5  | 33.8  | 50.6  |





#81  
 1,2,4-Trichlorobenzene  
 Concen: 9.735 ppbv  
 RT: 22.14 min Scan# 5971  
 Delta R.T. -0.00 min  
 Lab File: VL033280.D  
 Acq: 12 Mar 2019 10:04

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL031219

Tgt Ion:180 Resp: 1417404  
 Ion Ratio Lower Upper  
 180 100  
 182 95.4 76.6 114.8  
 184 30.7 24.2 36.4

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