

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092519\  
 Data File : VU034815.D  
 Acq On : 25 Sep 2019 20:20  
 Operator : JC/SP  
 Sample : K4983-05  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BFDM0

## Integration Parameters: LSCINT.P

Integrator: RTE  
 Smoothing : OFF  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 0 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091919WMA.M  
 Title : VOC Analysis

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1      | 1.177    | 23         | 27       | 34        | rVB3  | 8623        | 8878       | 0.33%        | 0.036%     |
| 2      | 1.392    | 87         | 94       | 104       | rBV   | 314603      | 329070     | 12.32%       | 1.352%     |
| 3      | 1.540    | 134        | 140      | 150       | rVB4  | 27027       | 34545      | 1.29%        | 0.142%     |
| 4      | 1.672    | 173        | 181      | 193       | rBV   | 262714      | 326849     | 12.24%       | 1.343%     |
| 5      | 2.257    | 354        | 363      | 373       | rBV   | 450432      | 679550     | 25.45%       | 2.793%     |
| 6      | 2.306    | 373        | 378      | 393       | rVB   | 76461       | 118229     | 4.43%        | 0.486%     |
| 7      | 2.415    | 410        | 412      | 414       | rBV3  | 1539        | 848        | 0.03%        | 0.003%     |
| 8      | 2.537    | 443        | 450      | 456       | rVB8  | 2438        | 2717       | 0.10%        | 0.011%     |
| 9      | 2.685    | 483        | 496      | 512       | rBV   | 105534      | 191478     | 7.17%        | 0.787%     |
| 10     | 2.778    | 521        | 525      | 527       | rBV3  | 1811        | 1468       | 0.05%        | 0.006%     |
| 11     | 2.926    | 567        | 571      | 573       | rBV5  | 1036        | 1006       | 0.04%        | 0.004%     |
| 12     | 3.084    | 615        | 620      | 624       | rVB6  | 1936        | 1538       | 0.06%        | 0.006%     |
| 13     | 3.113    | 624        | 629      | 631       | rBV4  | 2072        | 1671       | 0.06%        | 0.007%     |
| 14     | 3.164    | 637        | 645      | 652       | rBV9  | 2690        | 4346       | 0.16%        | 0.018%     |
| 15     | 3.318    | 690        | 693      | 695       | rBV3  | 1327        | 826        | 0.03%        | 0.003%     |
| 16     | 3.360    | 704        | 706      | 711       | rVB3  | 1143        | 886        | 0.03%        | 0.004%     |
| 17     | 3.408    | 717        | 721      | 726       | rVV7  | 1247        | 1553       | 0.06%        | 0.006%     |
| 18     | 3.495    | 744        | 748      | 753       | rVB6  | 1166        | 1036       | 0.04%        | 0.004%     |
| 19     | 3.733    | 820        | 822      | 828       | rVB5  | 1044        | 864        | 0.03%        | 0.004%     |
| 20     | 3.846    | 853        | 857      | 861       | rVB6  | 1310        | 1237       | 0.05%        | 0.005%     |
| 21     | 3.916    | 876        | 879      | 884       | rVB4  | 1251        | 849        | 0.03%        | 0.003%     |
| 22     | 3.987    | 897        | 901      | 906       | rBV4  | 979         | 1003       | 0.04%        | 0.004%     |
| 23     | 4.151    | 939        | 952      | 975       | rBV2  | 223110      | 602217     | 22.55%       | 2.475%     |
| 24     | 4.473    | 1048       | 1052     | 1055      | rBV6  | 1285        | 1084       | 0.04%        | 0.004%     |
| 25     | 4.621    | 1081       | 1098     | 1122      | rBV   | 353586      | 835520     | 31.29%       | 3.434%     |
| 26     | 4.855    | 1169       | 1171     | 1176      | rBV5  | 2038        | 1399       | 0.05%        | 0.006%     |
| 27     | 4.974    | 1203       | 1208     | 1211      | rBV7  | 2087        | 2038       | 0.08%        | 0.008%     |
| 28     | 5.035    | 1225       | 1227     | 1231      | rVB3  | 1233        | 961        | 0.04%        | 0.004%     |
| 29     | 5.064    | 1231       | 1236     | 1241      | rVB7  | 1074        | 1284       | 0.05%        | 0.005%     |
| 30     | 5.103    | 1244       | 1248     | 1250      | rVV4  | 1260        | 951        | 0.04%        | 0.004%     |
| 31     | 5.167    | 1264       | 1268     | 1270      | rBV4  | 1574        | 925        | 0.03%        | 0.004%     |
| 32     | 5.315    | 1290       | 1314     | 1350      | rBV2  | 742555      | 2230293    | 83.51%       | 9.165%     |
| 33     | 5.530    | 1370       | 1381     | 1396      | rBV2  | 72761       | 153209     | 5.74%        | 0.630%     |
| 34     | 5.630    | 1410       | 1412     | 1415      | rVB4  | 2002        | 1049       | 0.04%        | 0.004%     |

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 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091919WMA.M  
 Title : VOC Analysis

|    |        |      |      |      |      |         |         |         |         |
|----|--------|------|------|------|------|---------|---------|---------|---------|
| 35 | 5.736  | 1442 | 1445 | 1447 | rBV4 | 1874    | 1047    | 0.04%   | 0.004%  |
| 36 | 5.775  | 1453 | 1457 | 1458 | rBV4 | 2159    | 1418    | 0.05%   | 0.006%  |
| 37 | 5.865  | 1471 | 1485 | 1506 | rBV  | 530992  | 1083934 | 40.59%  | 4.454%  |
| 38 | 6.309  | 1609 | 1623 | 1643 | rBV  | 514652  | 1033909 | 38.71%  | 4.249%  |
| 39 | 6.563  | 1694 | 1702 | 1706 | rBV  | 14750   | 25057   | 0.94%   | 0.103%  |
| 40 | 6.682  | 1728 | 1739 | 1768 | rBV  | 1450831 | 2670636 | 100.00% | 10.975% |
| 41 | 7.206  | 1889 | 1902 | 1922 | rBV  | 292730  | 533147  | 19.96%  | 2.191%  |
| 42 | 7.399  | 1951 | 1962 | 1991 | rVB  | 198701  | 373950  | 14.00%  | 1.537%  |
| 43 | 7.543  | 1992 | 2007 | 2022 | rBV  | 1015822 | 1803187 | 67.52%  | 7.410%  |
| 44 | 7.617  | 2025 | 2030 | 2043 | rVB  | 46895   | 81224   | 3.04%   | 0.334%  |
| 45 | 7.829  | 2084 | 2096 | 2120 | rBV2 | 220827  | 410946  | 15.39%  | 1.689%  |
| 46 | 8.061  | 2165 | 2168 | 2172 | rVB6 | 1706    | 1191    | 0.04%   | 0.005%  |
| 47 | 8.135  | 2178 | 2191 | 2208 | rBV  | 370492  | 626776  | 23.47%  | 2.576%  |
| 48 | 8.218  | 2208 | 2217 | 2218 | rBV3 | 20463   | 26454   | 0.99%   | 0.109%  |
| 49 | 8.289  | 2229 | 2239 | 2262 | rBV  | 850754  | 1465893 | 54.89%  | 6.024%  |
| 50 | 8.395  | 2263 | 2272 | 2291 | rVB  | 522196  | 830827  | 31.11%  | 3.414%  |
| 51 | 8.791  | 2392 | 2395 | 2397 | rBV3 | 1611    | 953     | 0.04%   | 0.004%  |
| 52 | 8.804  | 2397 | 2399 | 2404 | rVB5 | 1355    | 1044    | 0.04%   | 0.004%  |
| 53 | 8.884  | 2412 | 2424 | 2454 | rBV  | 733687  | 1180520 | 44.20%  | 4.851%  |
| 54 | 9.067  | 2461 | 2481 | 2509 | rBV  | 805943  | 1397496 | 52.33%  | 5.743%  |
| 55 | 9.228  | 2524 | 2531 | 2545 | rVB2 | 23915   | 40611   | 1.52%   | 0.167%  |
| 56 | 9.283  | 2546 | 2548 | 2551 | rBV3 | 1329    | 927     | 0.03%   | 0.004%  |
| 57 | 9.353  | 2558 | 2570 | 2583 | rBV  | 78410   | 136637  | 5.12%   | 0.561%  |
| 58 | 9.588  | 2635 | 2643 | 2653 | rBV  | 17360   | 29627   | 1.11%   | 0.122%  |
| 59 | 9.704  | 2677 | 2679 | 2681 | rBV2 | 1403    | 841     | 0.03%   | 0.003%  |
| 60 | 9.752  | 2683 | 2694 | 2712 | rVV4 | 111297  | 218249  | 8.17%   | 0.897%  |
| 61 | 10.013 | 2772 | 2775 | 2776 | rBV2 | 1197    | 812     | 0.03%   | 0.003%  |
| 62 | 10.067 | 2788 | 2792 | 2794 | rBV3 | 1131    | 930     | 0.03%   | 0.004%  |
| 63 | 10.109 | 2800 | 2805 | 2807 | rBV4 | 1574    | 1573    | 0.06%   | 0.006%  |
| 64 | 10.144 | 2810 | 2816 | 2826 | rVV7 | 4763    | 8301    | 0.31%   | 0.034%  |
| 65 | 10.199 | 2831 | 2833 | 2836 | rVB3 | 1220    | 855     | 0.03%   | 0.004%  |
| 66 | 10.408 | 2886 | 2898 | 2916 | rVV  | 675111  | 1095588 | 41.02%  | 4.502%  |
| 67 | 10.572 | 2940 | 2949 | 2959 | rVB2 | 7668    | 15355   | 0.57%   | 0.063%  |
| 68 | 10.662 | 2966 | 2977 | 2992 | rBV  | 35595   | 79424   | 2.97%   | 0.326%  |
| 69 | 10.749 | 2996 | 3004 | 3014 | rVB2 | 31283   | 47872   | 1.79%   | 0.197%  |
| 70 | 10.852 | 3031 | 3036 | 3042 | rBV7 | 1178    | 1468    | 0.05%   | 0.006%  |
| 71 | 10.900 | 3045 | 3051 | 3056 | rBV6 | 2328    | 2987    | 0.11%   | 0.012%  |

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Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091919WMA.M  
 Title : VOC Analysis

|     |        |      |      |      |      |        |         |        |        |
|-----|--------|------|------|------|------|--------|---------|--------|--------|
| 72  | 10.951 | 3056 | 3067 | 3076 | rBV  | 24691  | 39083   | 1.46%  | 0.161% |
| 73  | 11.048 | 3093 | 3097 | 3101 | rBV6 | 1889   | 1962    | 0.07%  | 0.008% |
| 74  | 11.125 | 3111 | 3121 | 3135 | rBV  | 93265  | 147489  | 5.52%  | 0.606% |
| 75  | 11.460 | 3214 | 3225 | 3244 | rBV  | 756168 | 1246039 | 46.66% | 5.120% |
| 76  | 11.550 | 3245 | 3253 | 3265 | rVB2 | 51398  | 85797   | 3.21%  | 0.353% |
| 77  | 11.662 | 3283 | 3288 | 3296 | rVB7 | 4021   | 5129    | 0.19%  | 0.021% |
| 78  | 11.742 | 3305 | 3313 | 3323 | rBV2 | 24050  | 43581   | 1.63%  | 0.179% |
| 79  | 11.836 | 3331 | 3342 | 3371 | rVB  | 906099 | 1544647 | 57.84% | 6.348% |
| 80  | 12.080 | 3416 | 3418 | 3422 | rVB3 | 2510   | 1385    | 0.05%  | 0.006% |
| 81  | 12.125 | 3422 | 3432 | 3438 | rBV6 | 12191  | 22734   | 0.85%  | 0.093% |
| 82  | 12.231 | 3460 | 3465 | 3475 | rBV3 | 9940   | 12456   | 0.47%  | 0.051% |
| 83  | 12.334 | 3489 | 3497 | 3509 | rBV4 | 14721  | 26558   | 0.99%  | 0.109% |
| 84  | 12.459 | 3533 | 3536 | 3544 | rVB7 | 3281   | 3852    | 0.14%  | 0.016% |
| 85  | 12.527 | 3551 | 3557 | 3567 | rVB9 | 6109   | 10198   | 0.38%  | 0.042% |
| 86  | 12.595 | 3572 | 3578 | 3584 | rBV6 | 8834   | 12930   | 0.48%  | 0.053% |
| 87  | 12.681 | 3598 | 3605 | 3618 | rVB2 | 18916  | 31714   | 1.19%  | 0.130% |
| 88  | 12.865 | 3659 | 3662 | 3665 | rBV5 | 2203   | 1399    | 0.05%  | 0.006% |
| 89  | 12.948 | 3681 | 3688 | 3699 | rBV6 | 8824   | 13965   | 0.52%  | 0.057% |
| 90  | 13.103 | 3726 | 3736 | 3745 | rBV4 | 35870  | 61582   | 2.31%  | 0.253% |
| 91  | 13.270 | 3782 | 3788 | 3801 | rVB4 | 19363  | 31572   | 1.18%  | 0.130% |
| 92  | 13.379 | 3813 | 3822 | 3830 | rVB4 | 9864   | 17352   | 0.65%  | 0.071% |
| 93  | 13.437 | 3830 | 3840 | 3851 | rBV4 | 4719   | 10137   | 0.38%  | 0.042% |
| 94  | 13.488 | 3853 | 3856 | 3863 | rVB8 | 6056   | 7815    | 0.29%  | 0.032% |
| 95  | 13.730 | 3921 | 3931 | 3951 | rBV  | 55701  | 127304  | 4.77%  | 0.523% |
| 96  | 14.138 | 4053 | 4058 | 4067 | rVB9 | 3152   | 4775    | 0.18%  | 0.020% |
| 97  | 14.623 | 4201 | 4209 | 4211 | rBV8 | 4452   | 5250    | 0.20%  | 0.022% |
| 98  | 14.871 | 4279 | 4286 | 4288 | rBV6 | 9049   | 11531   | 0.43%  | 0.047% |
| 99  | 14.993 | 4322 | 4324 | 4326 | rBV3 | 1765   | 910     | 0.03%  | 0.004% |
| 100 | 15.051 | 4334 | 4342 | 4358 | rVB6 | 16765  | 32146   | 1.20%  | 0.132% |

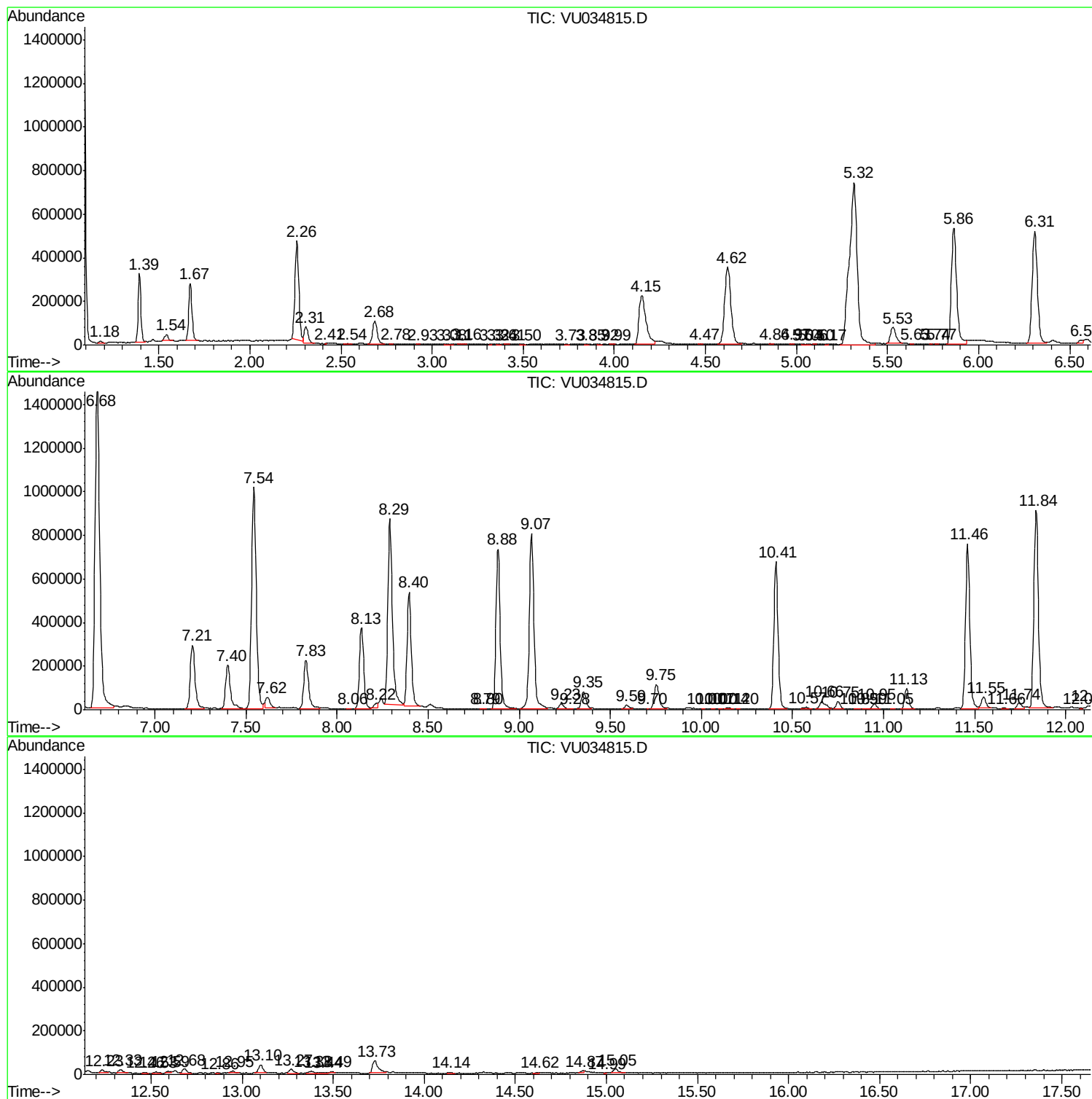
Sum of corrected areas: 24334335

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091919WMA.M  
Quant Title : VOC Analysis

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P



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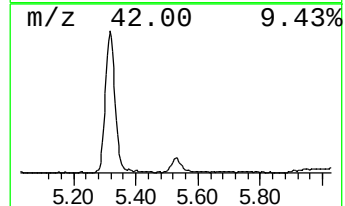
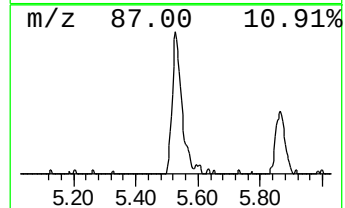
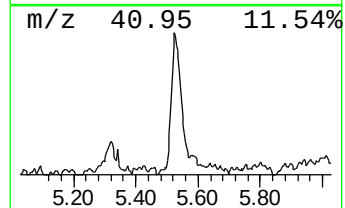
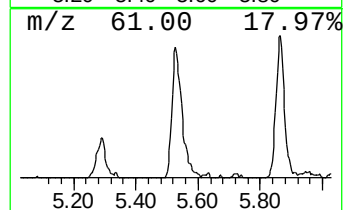
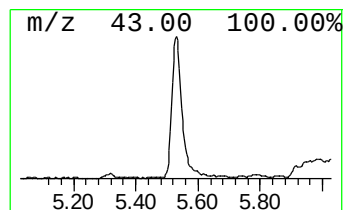
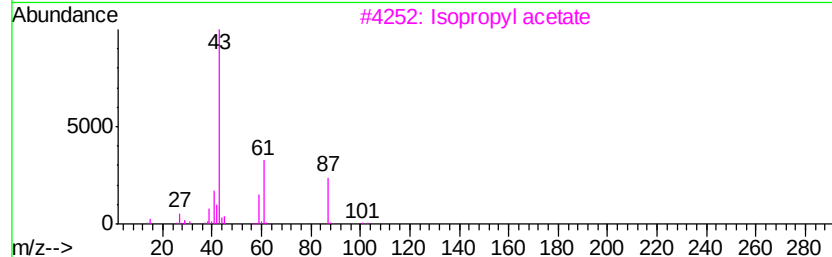
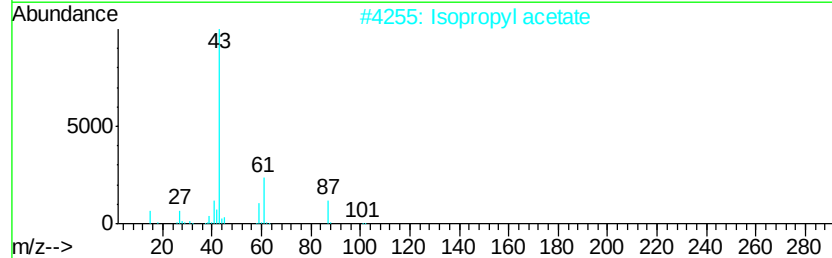
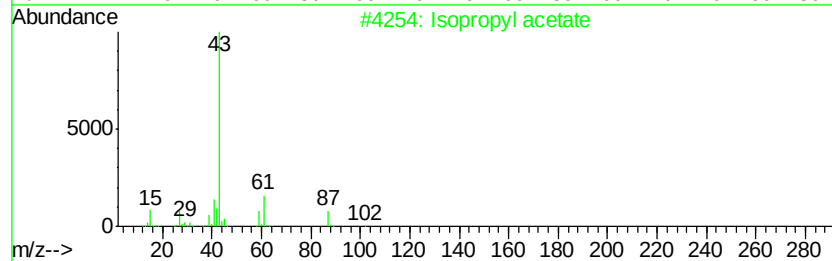
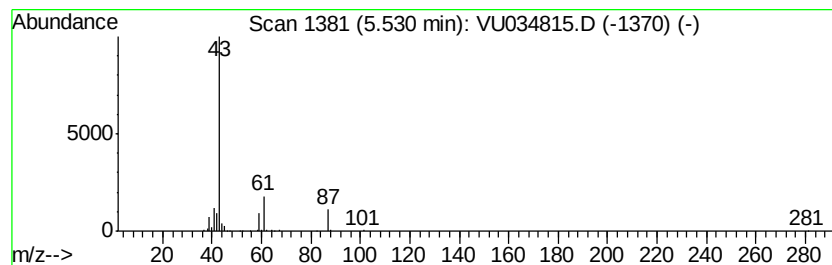
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Isopropyl acetate Concentration Rank 7

| R.T. | EstConc   | Area   | Relative to ISTD    | R.T. |
|------|-----------|--------|---------------------|------|
| 5.53 | 7.07 ug/L | 153209 | 1,4-Difluorobenzene | 5.86 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#         | Qual |
|------|----|-----------------------------|-----|---------|--------------|------|
| 1    | 5  | Isopropyl acetate           | 102 | C5H10O2 | 000108-21-4  | 78   |
| 2    |    | Isopropyl acetate           | 102 | C5H10O2 | 000108-21-4  | 64   |
| 3    |    | Isopropyl acetate           | 102 | C5H10O2 | 000108-21-4  | 53   |
| 4    |    | Isopropyl acetate           | 102 | C5H10O2 | 000108-21-4  | 53   |
| 5    |    | Acetaldehyde, O-ethyloxime- | 87  | C4H9NO  | 1000288-34-6 | 9    |



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Quant Title : VOC Analysis

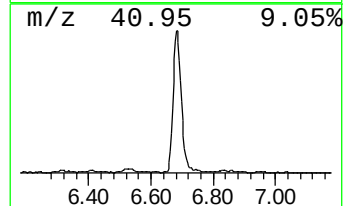
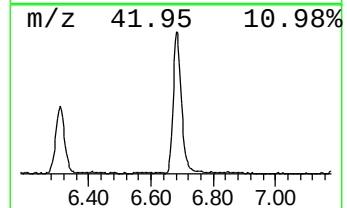
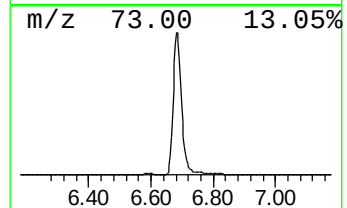
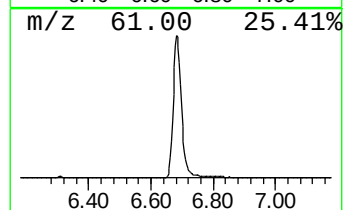
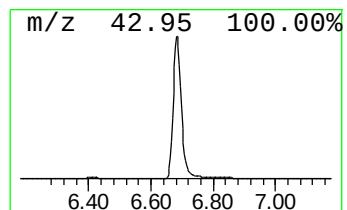
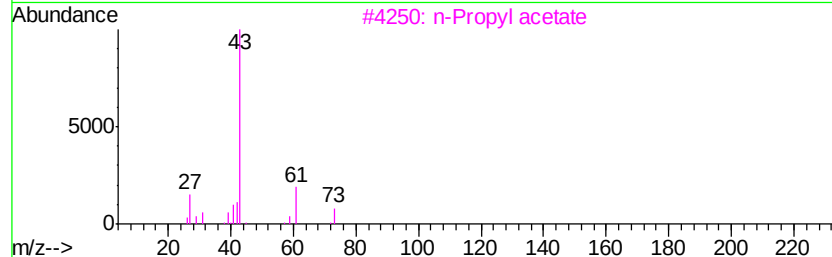
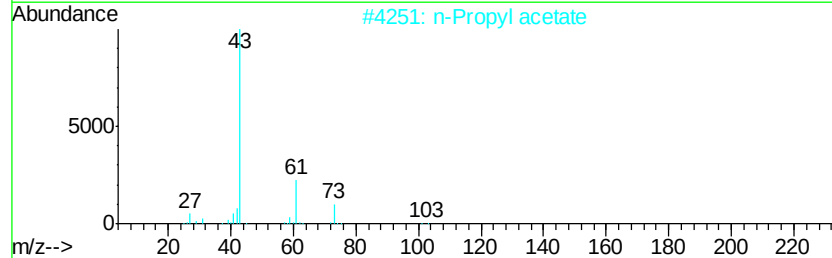
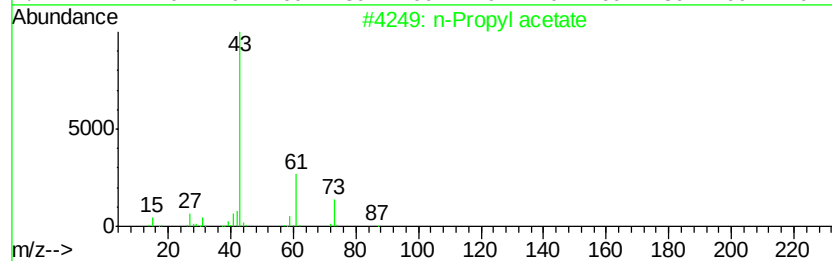
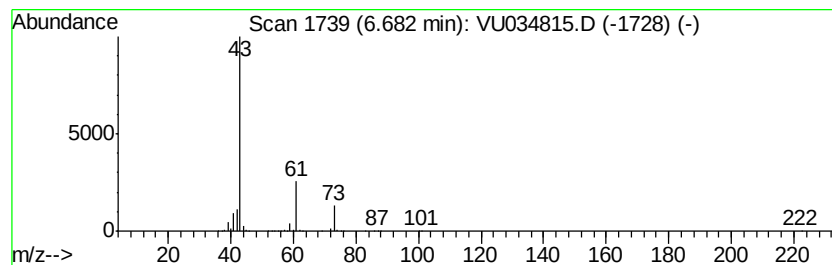
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 n-Propyl acetate Concentration Rank 1

| R.T. | EstConc     | Area    | Relative to ISTD    | R.T. |
|------|-------------|---------|---------------------|------|
| 6.68 | 123.19 ug/L | 2670640 | 1,4-Difluorobenzene | 5.86 |

| Hit# | of | Tentative ID      | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------|-----|---------|-------------|------|
| 1    | 5  | n-Propyl acetate  | 102 | C5H10O2 | 000109-60-4 | 83   |
| 2    |    | n-Propyl acetate  | 102 | C5H10O2 | 000109-60-4 | 78   |
| 3    |    | n-Propyl acetate  | 102 | C5H10O2 | 000109-60-4 | 72   |
| 4    |    | Isopropyl acetate | 102 | C5H10O2 | 000108-21-4 | 38   |
| 5    |    | Isopropyl acetate | 102 | C5H10O2 | 000108-21-4 | 9    |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU092519\  
Data File : VU034815.D  
Acq On : 25 Sep 2019 20:20  
Operator : JC/SP  
Sample : K4983-05  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BFDM0

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091919WMA.M  
Quant Title : VOC Analysis

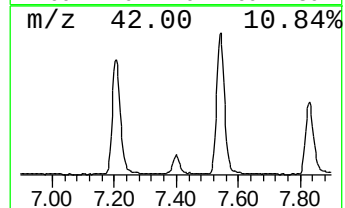
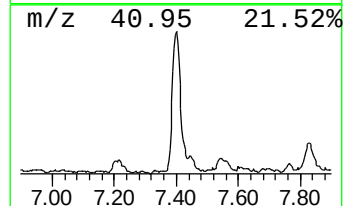
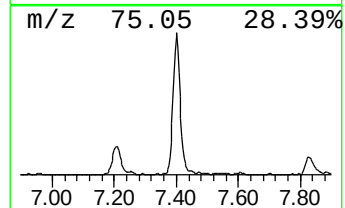
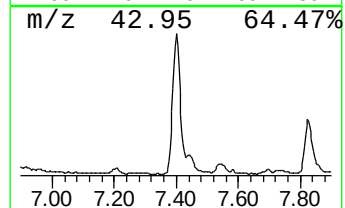
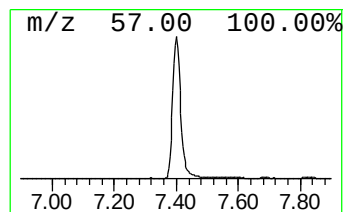
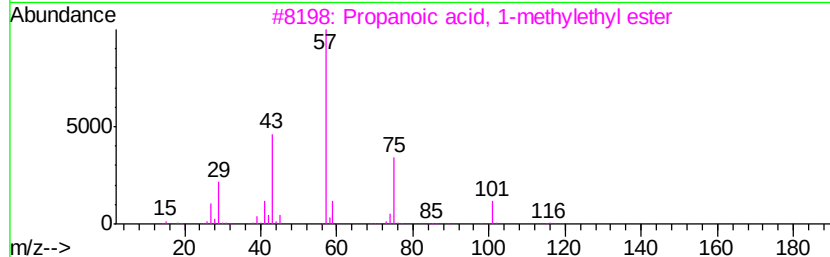
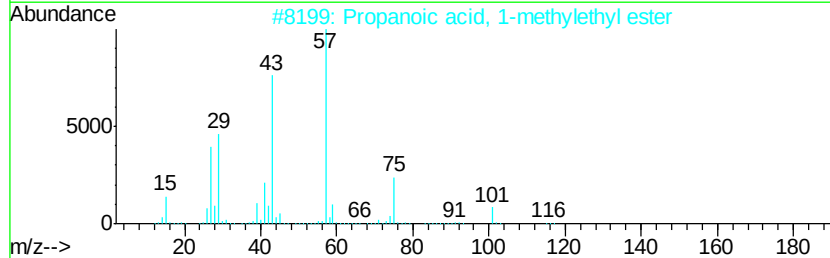
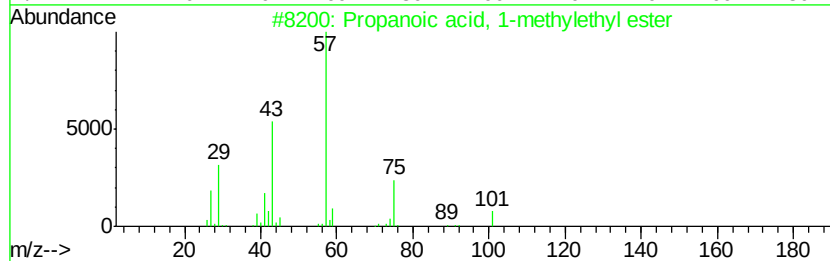
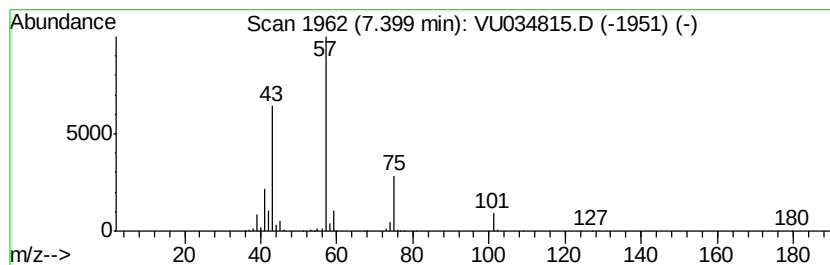
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Propanoic acid, 1-methyleth... Concentration Rank 6

| R.T. | EstConc    | Area   | Relative to ISTD    | R.T. |
|------|------------|--------|---------------------|------|
| 7.40 | 17.25 ug/L | 373950 | 1,4-Difluorobenzene | 5.86 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Propanoic acid, 1-methylethyl ester | 116 | C6H12O2 | 000637-78-5 | 90   |
| 2    |    | Propanoic acid, 1-methylethyl ester | 116 | C6H12O2 | 000637-78-5 | 83   |
| 3    |    | Propanoic acid, 1-methylethyl ester | 116 | C6H12O2 | 000637-78-5 | 72   |
| 4    |    | Propanoic acid, propyl ester        | 116 | C6H12O2 | 000106-36-5 | 56   |
| 5    |    | Propanoic acid, 1-methylethyl ester | 116 | C6H12O2 | 000637-78-5 | 40   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU092519\  
Data File : VU034815.D  
Acq On : 25 Sep 2019 20:20  
Operator : JC/SP  
Sample : K4983-05  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BFDM0

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091919WMA.M  
Quant Title : VOC Analysis

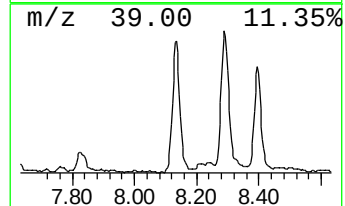
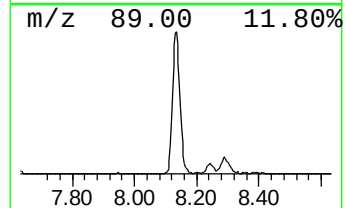
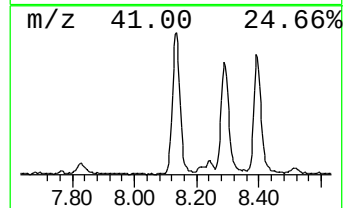
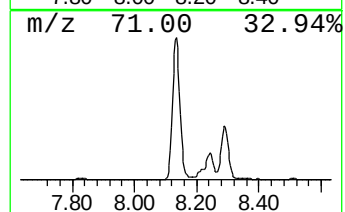
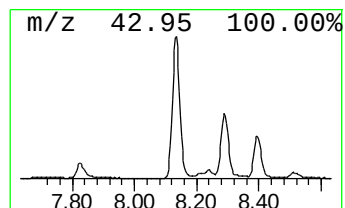
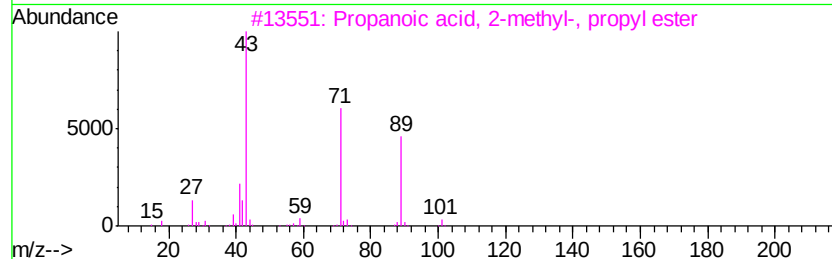
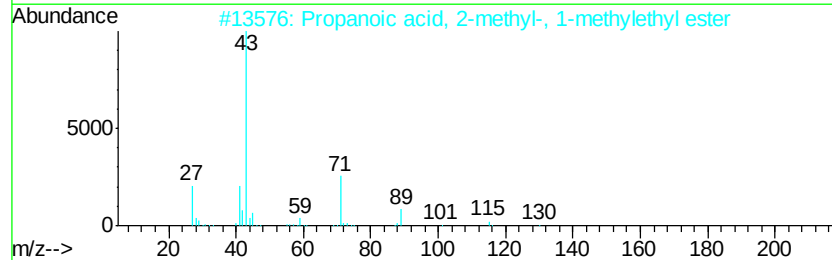
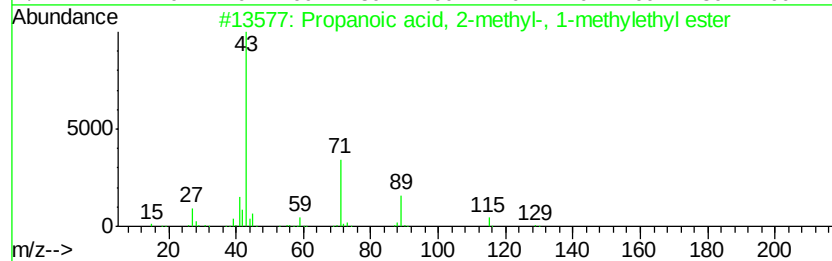
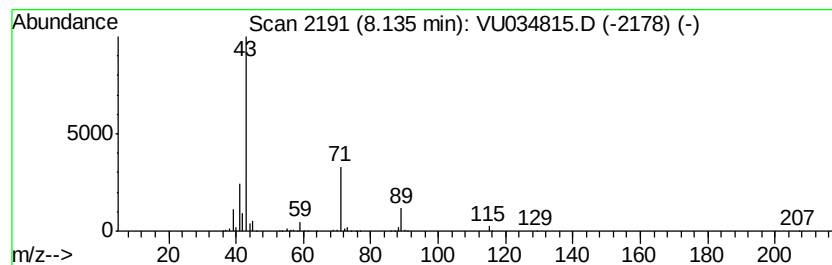
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Propanoic acid, 2-methyl-, ... Concentration Rank 5

| R.T. | EstConc    | Area   | Relative to ISTD | R.T. |
|------|------------|--------|------------------|------|
| 8.13 | 22.43 ug/L | 626776 | Chlorobenzene-d5 | 9.07 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Propanoic acid, 2-methyl-, 1-met... | 130 | C7H14O2 | 000617-50-5 | 83   |
| 2    |    | Propanoic acid, 2-methyl-, 1-met... | 130 | C7H14O2 | 000617-50-5 | 83   |
| 3    |    | Propanoic acid, 2-methyl-, propv... | 130 | C7H14O2 | 000644-49-5 | 78   |
| 4    |    | Propanoic acid, 2-methyl-, 1-met... | 130 | C7H14O2 | 000617-50-5 | 78   |
| 5    |    | Propanoic acid, 2-methyl-, 1-met... | 130 | C7H14O2 | 000617-50-5 | 56   |





Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU092519\  
Data File : VU034815.D  
Acq On : 25 Sep 2019 20:20  
Operator : JC/SP  
Sample : K4983-05  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BFDM0

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091919WMA.M  
Quant Title : VOC Analysis

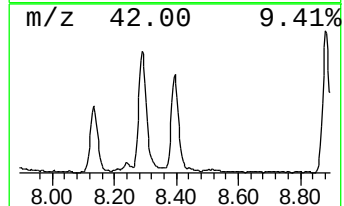
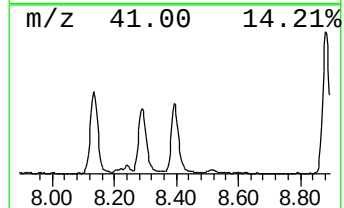
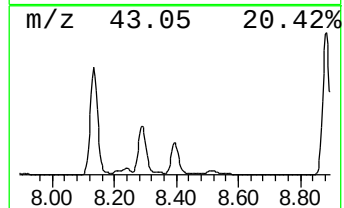
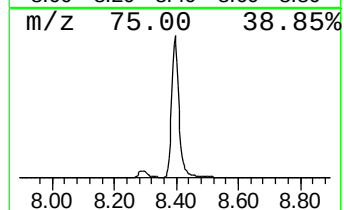
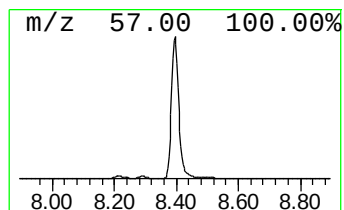
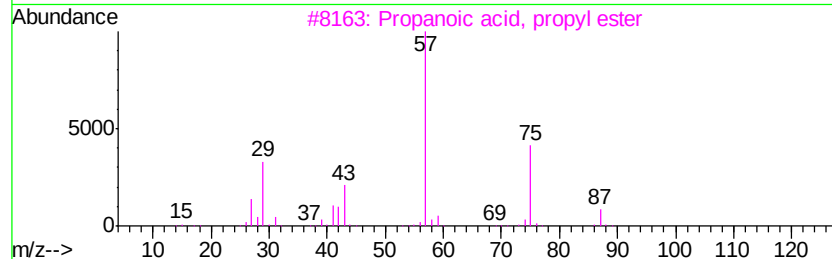
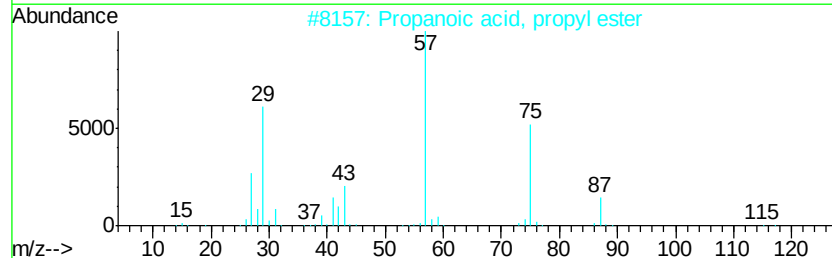
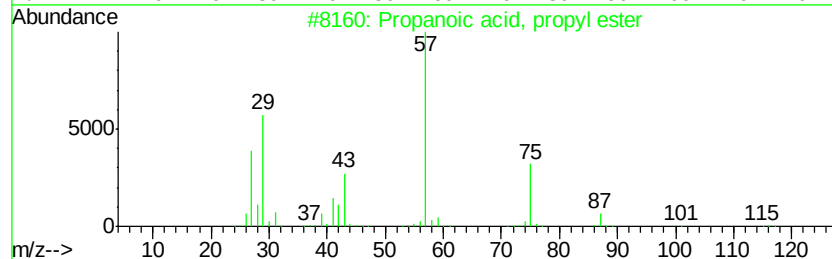
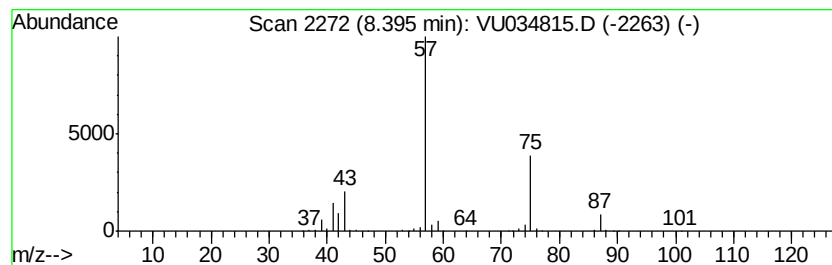
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 Propanoic acid, propyl ester Concentration Rank 3

| R.T. | EstConc    | Area   | Relative to ISTD | R.T. |
|------|------------|--------|------------------|------|
| 8.40 | 29.73 ug/L | 830827 | Chlorobenzene-d5 | 9.07 |

| Hit# | of | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------|-----|---------|-------------|------|
| 1    | 5  | Propanoic acid, propyl ester | 116 | C6H12O2 | 000106-36-5 | 83   |
| 2    |    | Propanoic acid, propyl ester | 116 | C6H12O2 | 000106-36-5 | 83   |
| 3    |    | Propanoic acid, propyl ester | 116 | C6H12O2 | 000106-36-5 | 83   |
| 4    |    | Propanoic acid, propyl ester | 116 | C6H12O2 | 000106-36-5 | 78   |
| 5    |    | Propanoic acid, butyl ester  | 130 | C7H14O2 | 000590-01-2 | 45   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU092519\  
Data File : VU034815.D  
Acq On : 25 Sep 2019 20:20  
Operator : JC/SP  
Sample : K4983-05  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BFDM0

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091919WMA.M  
Quant Title : VOC Analysis

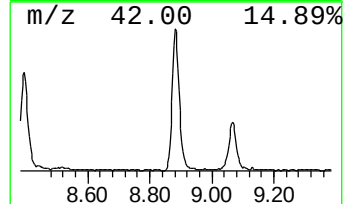
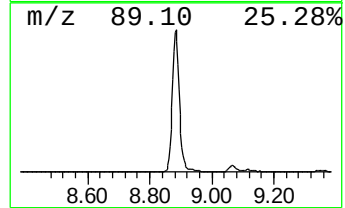
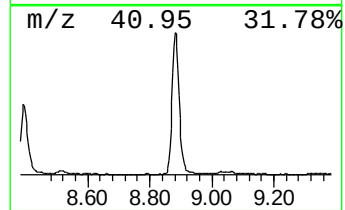
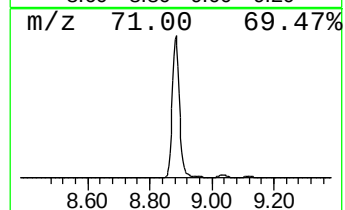
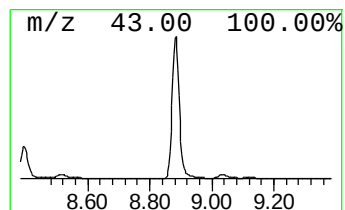
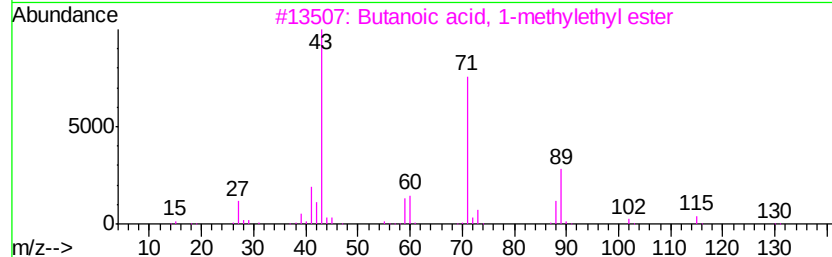
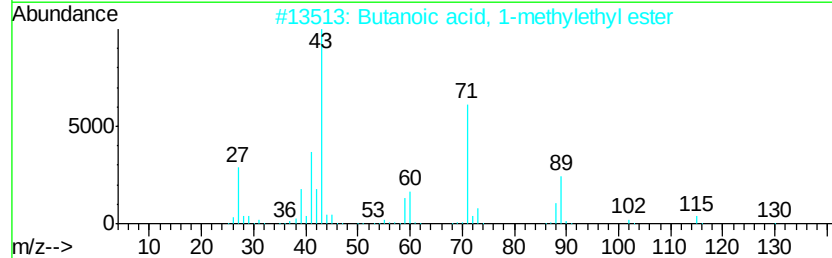
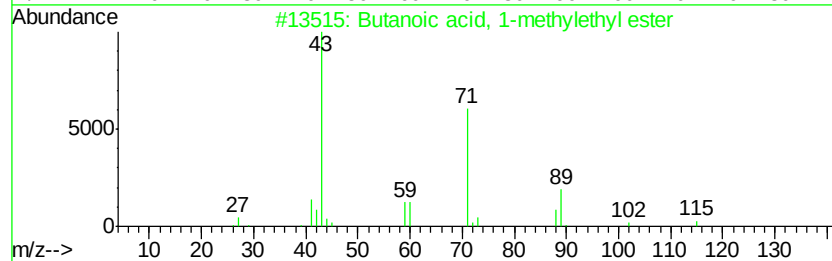
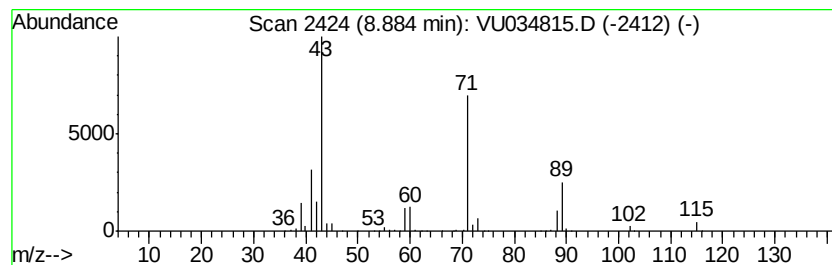
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Butanoic acid, 1-methylethy... Concentration Rank 2

| R.T. | EstConc    | Area    | Relative to ISTD | R.T. |
|------|------------|---------|------------------|------|
| 8.88 | 42.24 ug/L | 1180520 | Chlorobenzene-d5 | 9.07 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Butanoic acid, 1-methylethyl ester  | 130 | C7H14O2 | 000638-11-9 | 90   |
| 2    |    | Butanoic acid, 1-methylethyl ester  | 130 | C7H14O2 | 000638-11-9 | 90   |
| 3    |    | Butanoic acid, 1-methylethyl ester  | 130 | C7H14O2 | 000638-11-9 | 90   |
| 4    |    | Butanoic acid, 1-methylethyl ester  | 130 | C7H14O2 | 000638-11-9 | 86   |
| 5    |    | Propanoic acid, 2-methyl-, 1-met... | 130 | C7H14O2 | 000617-50-5 | 72   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU092519\  
Data File : VU034815.D  
Acq On : 25 Sep 2019 20:20  
Operator : JC/SP  
Sample : K4983-05  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampled :  
BFDM0

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091919WMA.M  
Quant Title : VOC Analysis

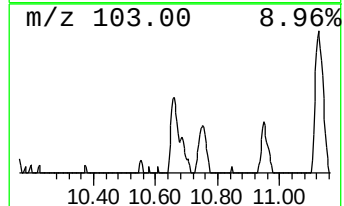
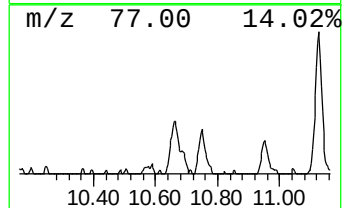
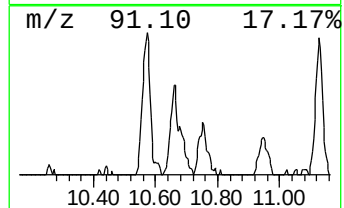
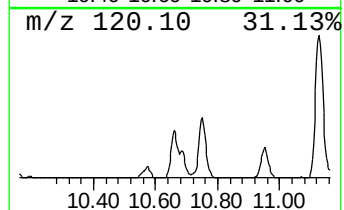
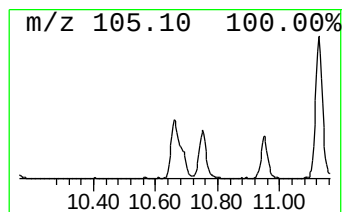
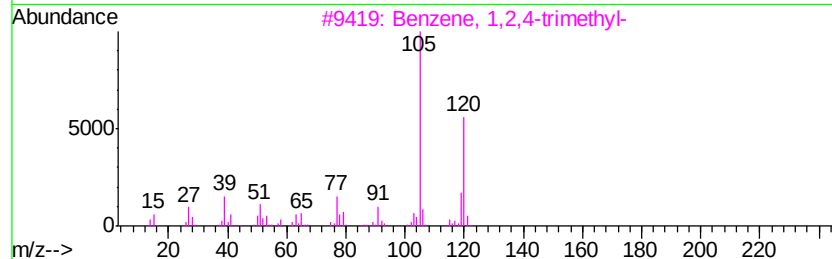
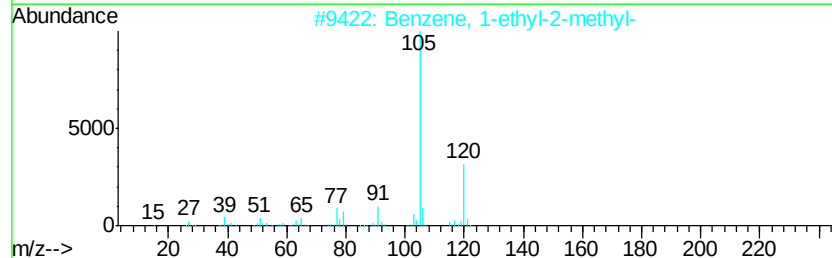
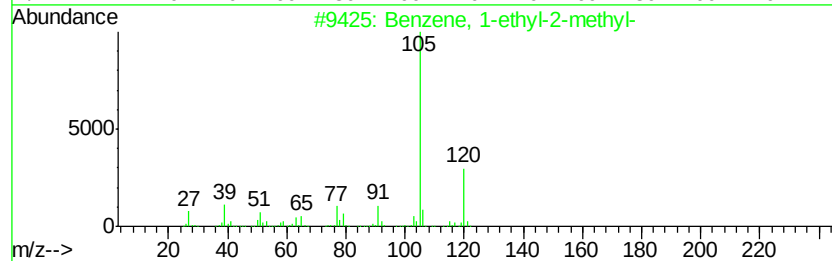
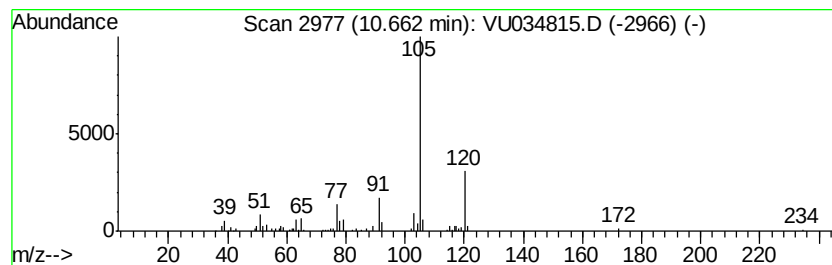
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 Benzene, 1-ethyl-2-methyl- Concentration Rank 11

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 10.66 | 3.19 ug/L | 79424 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-2-methyl- | 120 | C9H12   | 000611-14-3 | 83   |
| 2    |    | Benzene, 1-ethyl-2-methyl- | 120 | C9H12   | 000611-14-3 | 83   |
| 3    |    | Benzene, 1,2,4-trimethyl-  | 120 | C9H12   | 000095-63-6 | 83   |
| 4    |    | Benzene, 1-ethyl-3-methyl- | 120 | C9H12   | 000620-14-4 | 83   |
| 5    |    | Benzene, 1-ethyl-3-methyl- | 120 | C9H12   | 000620-14-4 | 80   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU092519\  
Data File : VU034815.D  
Acq On : 25 Sep 2019 20:20  
Operator : JC/SP  
Sample : K4983-05  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BFDM0

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091919WMA.M  
Quant Title : VOC Analysis

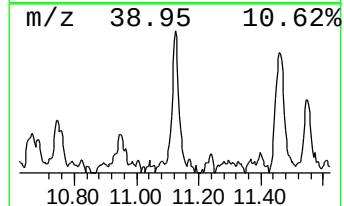
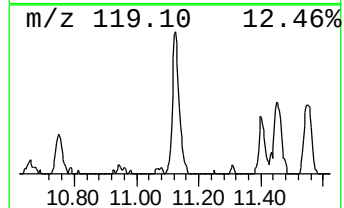
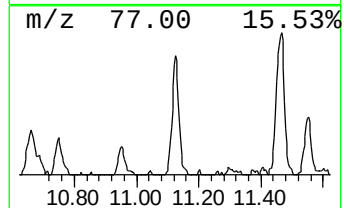
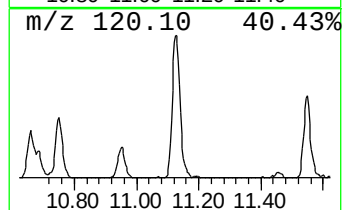
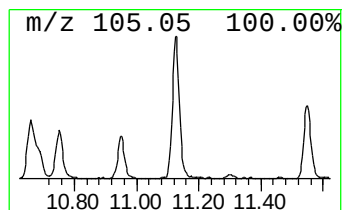
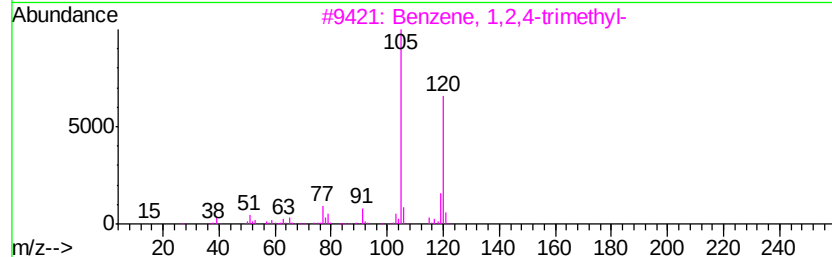
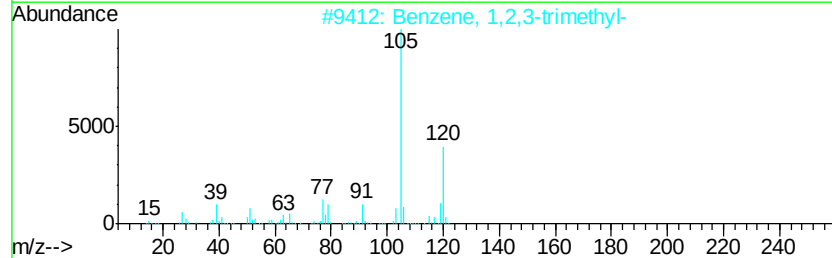
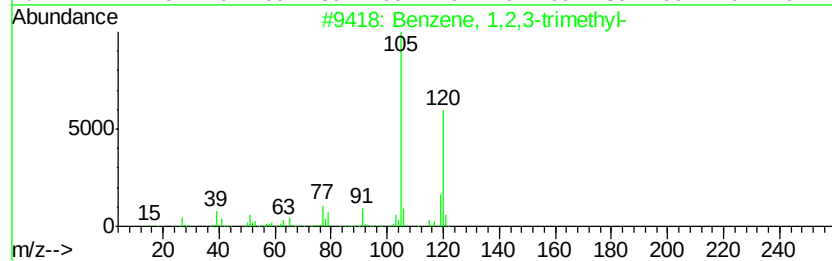
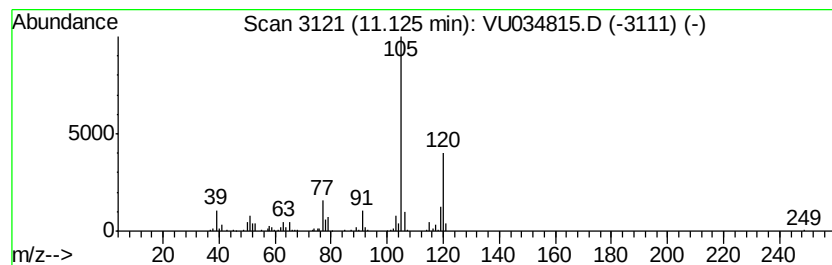
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 Benzene, 1,2,3-trimethyl- Concentration Rank 8

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 11.13 | 5.92 ug/L | 147489 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# | of | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,2,3-trimethyl- | 120 | C9H12   | 000526-73-8 | 95   |
| 2    |    | Benzene, 1,2,3-trimethyl- | 120 | C9H12   | 000526-73-8 | 95   |
| 3    |    | Benzene, 1,2,4-trimethyl- | 120 | C9H12   | 000095-63-6 | 94   |
| 4    |    | Mesitylene                | 120 | C9H12   | 000108-67-8 | 91   |
| 5    |    | Mesitylene                | 120 | C9H12   | 000108-67-8 | 91   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU092519\  
Data File : VU034815.D  
Acq On : 25 Sep 2019 20:20  
Operator : JC/SP  
Sample : K4983-05  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BFDM0

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091919WMA.M  
Quant Title : VOC Analysis

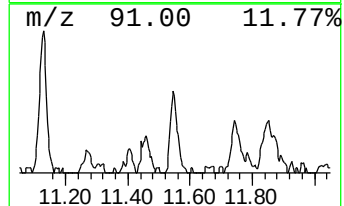
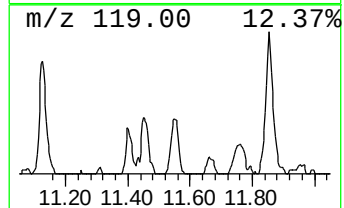
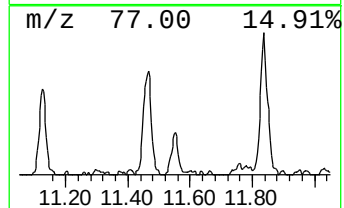
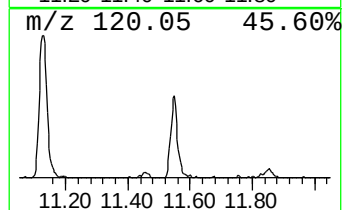
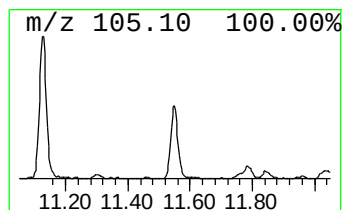
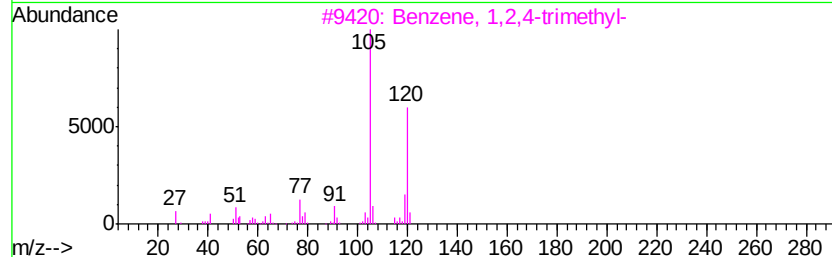
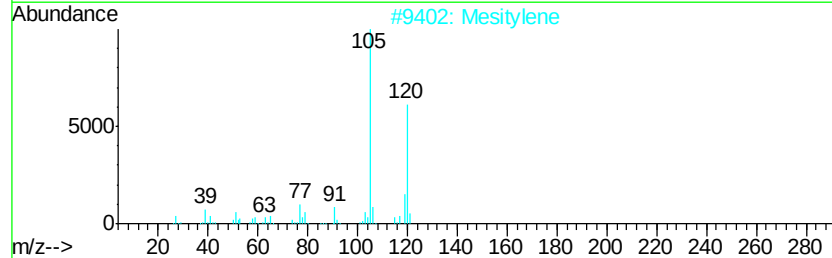
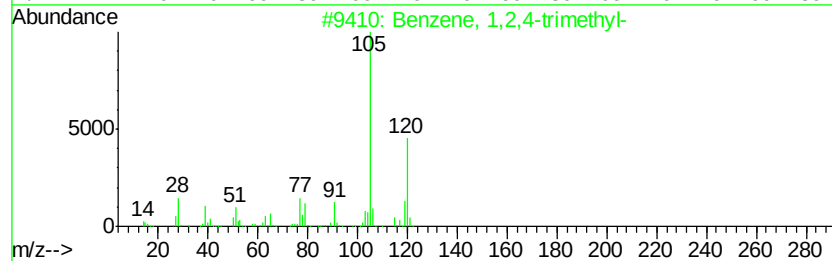
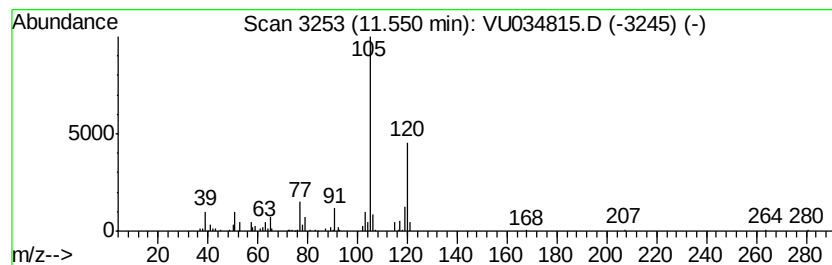
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 Benzene, 1,2,4-trimethyl- Concentration Rank 10

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 11.55 | 3.44 ug/L | 85797 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# | of | 5 | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---|---------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 1,2,4-trimethyl- | 120 | C9H12   | 000095-63-6 | 94   |
| 2    |    |   | Mesitylene                | 120 | C9H12   | 000108-67-8 | 91   |
| 3    |    |   | Benzene, 1,2,4-trimethyl- | 120 | C9H12   | 000095-63-6 | 91   |
| 4    |    |   | Benzene, 1,2,3-trimethyl- | 120 | C9H12   | 000526-73-8 | 91   |
| 5    |    |   | Mesitylene                | 120 | C9H12   | 000108-67-8 | 91   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU092519\  
Data File : VU034815.D  
Acq On : 25 Sep 2019 20:20  
Operator : JC/SP  
Sample : K4983-05  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BFDM0

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091919WMA.M  
Quant Title : VOC Analysis

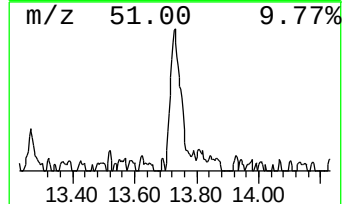
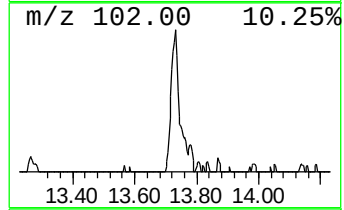
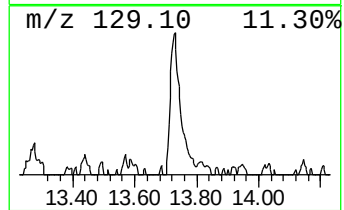
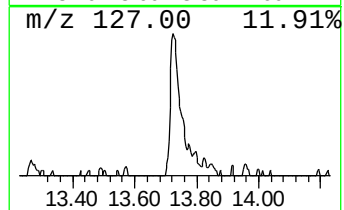
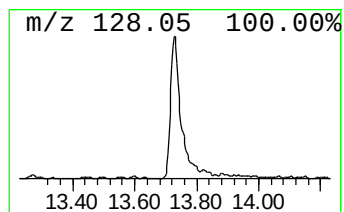
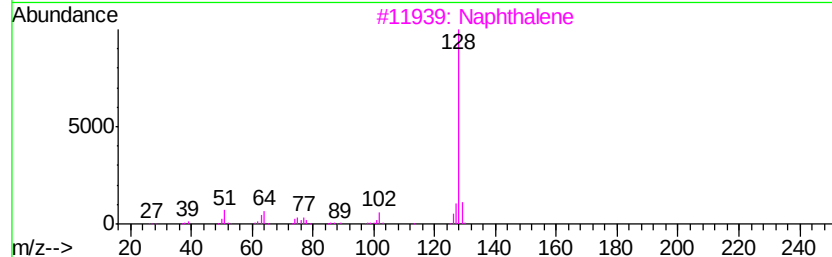
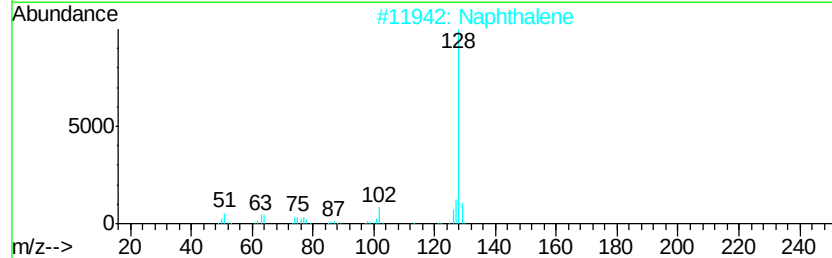
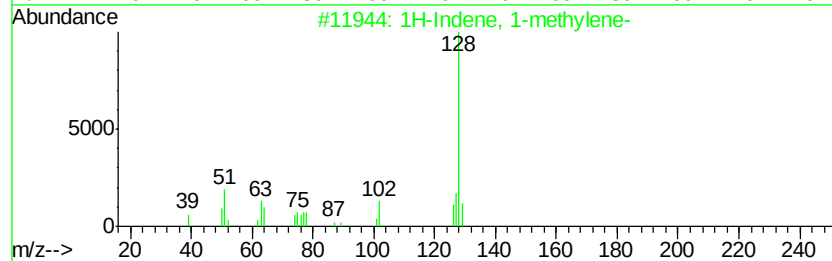
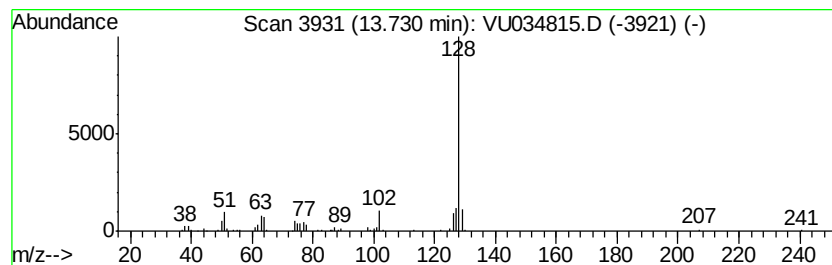
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 1H-Indene, 1-methylene- Concentration Rank 9

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 13.73 | 5.11 ug/L | 127304 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# | of | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1    | 5  | 1H-Indene, 1-methylene- | 128 | C10H8   | 002471-84-3 | 95   |
| 2    |    | Naphthalene             | 128 | C10H8   | 000091-20-3 | 94   |
| 3    |    | Naphthalene             | 128 | C10H8   | 000091-20-3 | 94   |
| 4    |    | Azulene                 | 128 | C10H8   | 000275-51-4 | 94   |
| 5    |    | Azulene                 | 128 | C10H8   | 000275-51-4 | 94   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU092519\  
Data File : VU034815.D  
Acq On : 25 Sep 2019 20:20  
Operator : JC/SP  
Sample : K4983-05  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BFDM0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091919WMA.M  
Quant Title : VOC Analysis

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| Isopropyl acetate    | 5.53  | 7.1     | ug/L  | 153209   | 1                     | 5.86  | 1083930 | 50.0 |
| n-Propyl acetate     | 6.68  | 123.2   | ug/L  | 2670640  | 1                     | 5.86  | 1083930 | 50.0 |
| Propanoic acid, 1... | 7.40  | 17.2    | ug/L  | 373950   | 1                     | 5.86  | 1083930 | 50.0 |
| Propanoic acid, 2... | 8.13  | 22.4    | ug/L  | 626776   | 2                     | 9.07  | 1397500 | 50.0 |
| Propanoic acid, p... | 8.40  | 29.7    | ug/L  | 830827   | 2                     | 9.07  | 1397500 | 50.0 |
| Butanoic acid, 1-... | 8.88  | 42.2    | ug/L  | 1180520  | 2                     | 9.07  | 1397500 | 50.0 |
| Benzene, 1-ethyl-... | 10.66 | 3.2     | ug/L  | 79424    | 3                     | 11.46 | 1246040 | 50.0 |
| Benzene, 1,2,3-tr... | 11.13 | 5.9     | ug/L  | 147489   | 3                     | 11.46 | 1246040 | 50.0 |
| Benzene, 1,2,4-tr... | 11.55 | 3.4     | ug/L  | 85797    | 3                     | 11.46 | 1246040 | 50.0 |
| 1H-Indene, 1-meth... | 13.73 | 5.1     | ug/L  | 127304   | 3                     | 11.46 | 1246040 | 50.0 |