

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW052523\  
 Data File : VW026048.D  
 Acq On : 25 May 2023 18:14  
 Operator : SY/MD  
 Sample : 02950-11  
 Misc : 4.70g/10mL/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 EW989

Integration Parameters: LSCINT.P

Integrator: RTE

Smoothing : OFF

Filtering: 5

Sampling : 1

Min Area: 0 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM050123SMA.M  
 Title : SFAM01.0

Signal : TIC: VW026048.D\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 2.143       | 40            | 42          | 44           | rVB3     | 3216           | 2644          | 0.64%           | 0.057%        |
| 2         | 2.168       | 44            | 46          | 48           | rBV3     | 1846           | 2343          | 0.57%           | 0.051%        |
| 3         | 2.235       | 49            | 57          | 60           | rBV9     | 9006           | 24588         | 5.96%           | 0.531%        |
| 4         | 2.289       | 64            | 66          | 67           | rVV2     | 2522           | 1648          | 0.40%           | 0.036%        |
| 5         | 2.357       | 73            | 77          | 84           | rVB      | 24995          | 45444         | 11.02%          | 0.981%        |
| 6         | 2.887       | 159           | 164         | 176          | rVB2     | 40575          | 105862        | 25.67%          | 2.285%        |
| 7         | 3.241       | 219           | 222         | 223          | rBV3     | 2141           | 1695          | 0.41%           | 0.037%        |
| 8         | 3.332       | 235           | 237         | 241          | rVB5     | 1290           | 1441          | 0.35%           | 0.031%        |
| 9         | 3.478       | 260           | 261         | 263          | rVV2     | 1721           | 1446          | 0.35%           | 0.031%        |
| 10        | 3.539       | 267           | 271         | 273          | rBV5     | 1723           | 2290          | 0.56%           | 0.049%        |
| 11        | 3.637       | 284           | 287         | 290          | rVV5     | 1588           | 1756          | 0.43%           | 0.038%        |
| 12        | 3.801       | 311           | 314         | 315          | rBV3     | 1519           | 1665          | 0.40%           | 0.036%        |
| 13        | 4.021       | 337           | 350         | 361          | rBV2     | 45230          | 127512        | 30.92%          | 2.752%        |
| 14        | 4.131       | 361           | 368         | 377          | rVV4     | 3316           | 10425         | 2.53%           | 0.225%        |
| 15        | 4.216       | 379           | 382         | 383          | rBV3     | 1616           | 1498          | 0.36%           | 0.032%        |
| 16        | 4.283       | 390           | 393         | 394          | rBV3     | 1353           | 1583          | 0.38%           | 0.034%        |
| 17        | 4.387       | 408           | 410         | 413          | rVV4     | 2230           | 1666          | 0.40%           | 0.036%        |
| 18        | 4.411       | 413           | 414         | 417          | rVB3     | 2121           | 1776          | 0.43%           | 0.038%        |
| 19        | 4.612       | 445           | 447         | 450          | rVB4     | 1928           | 1789          | 0.43%           | 0.039%        |
| 20        | 4.649       | 450           | 453         | 455          | rBV4     | 1208           | 1794          | 0.43%           | 0.039%        |
| 21        | 4.722       | 463           | 465         | 468          | rVB4     | 2121           | 1833          | 0.44%           | 0.040%        |
| 22        | 4.752       | 468           | 470         | 473          | rVB4     | 2104           | 1873          | 0.45%           | 0.040%        |
| 23        | 4.795       | 475           | 477         | 481          | rVB5     | 2106           | 3177          | 0.77%           | 0.069%        |
| 24        | 4.923       | 487           | 498         | 509          | rBV2     | 28694          | 94062         | 22.81%          | 2.030%        |
| 25        | 5.411       | 575           | 578         | 580          | rBV4     | 1187           | 1522          | 0.37%           | 0.033%        |
| 26        | 5.704       | 624           | 626         | 630          | rBV5     | 1297           | 1705          | 0.41%           | 0.037%        |
| 27        | 5.740       | 630           | 632         | 635          | rVB4     | 1498           | 1504          | 0.36%           | 0.032%        |
| 28        | 5.789       | 635           | 640         | 642          | rBV6     | 1681           | 2839          | 0.69%           | 0.061%        |
| 29        | 5.911       | 657           | 660         | 661          | rBV3     | 2522           | 2436          | 0.59%           | 0.053%        |
| 30        | 5.947       | 661           | 666         | 674          | rVV10    | 5357           | 13209         | 3.20%           | 0.285%        |
| 31        | 6.252       | 713           | 716         | 719          | rVB5     | 1376           | 1535          | 0.37%           | 0.033%        |
| 32        | 6.557       | 763           | 766         | 768          | rBV4     | 1752           | 2174          | 0.53%           | 0.047%        |
| 33        | 6.575       | 768           | 769         | 772          | rVB3     | 2053           | 1828          | 0.44%           | 0.039%        |
| 34        | 6.624       | 772           | 777         | 778          | rBV5     | 2071           | 3183          | 0.77%           | 0.069%        |
| 35        | 6.783       | 802           | 803         | 805          | rBV2     | 1612           | 1498          | 0.36%           | 0.032%        |
| 36        | 6.807       | 805           | 807         | 812          | rVV6     | 1085           | 1704          | 0.41%           | 0.037%        |

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Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM050123SMA.M  
 Title : SFAM01.0

|    |       |      |      |      |      |        |        |         |        |
|----|-------|------|------|------|------|--------|--------|---------|--------|
| 37 | 6.868 | 813  | 817  | 820  | rVB6 | 1228   | 1924   | 0.47%   | 0.042% |
| 38 | 6.935 | 820  | 828  | 830  | rBV8 | 1511   | 3492   | 0.85%   | 0.075% |
| 39 | 6.965 | 830  | 833  | 836  | rVV5 | 1475   | 1939   | 0.47%   | 0.042% |
| 40 | 7.002 | 836  | 839  | 842  | rVV5 | 1161   | 1891   | 0.46%   | 0.041% |
| 41 | 7.081 | 846  | 852  | 867  | rVV3 | 12247  | 48702  | 11.81%  | 1.051% |
| 42 | 7.179 | 867  | 868  | 870  | rVV2 | 2750   | 2222   | 0.54%   | 0.048% |
| 43 | 7.197 | 870  | 871  | 874  | rVV3 | 2595   | 2595   | 0.63%   | 0.056% |
| 44 | 7.228 | 874  | 876  | 879  | rVV4 | 2283   | 1991   | 0.48%   | 0.043% |
| 45 | 7.276 | 881  | 884  | 886  | rVV4 | 1165   | 1539   | 0.37%   | 0.033% |
| 46 | 7.325 | 889  | 892  | 893  | rBV3 | 1692   | 1482   | 0.36%   | 0.032% |
| 47 | 7.343 | 893  | 895  | 898  | rVV4 | 1340   | 1487   | 0.36%   | 0.032% |
| 48 | 7.386 | 900  | 902  | 905  | rVV4 | 1119   | 1562   | 0.38%   | 0.034% |
| 49 | 7.423 | 907  | 908  | 915  | rVV6 | 1562   | 2456   | 0.60%   | 0.053% |
| 50 | 7.502 | 918  | 921  | 924  | rVB5 | 1445   | 1946   | 0.47%   | 0.042% |
| 51 | 7.569 | 924  | 932  | 933  | rBV7 | 1305   | 3505   | 0.85%   | 0.076% |
| 52 | 7.648 | 933  | 945  | 957  | rVV  | 70377  | 178306 | 43.23%  | 3.848% |
| 53 | 7.758 | 959  | 963  | 966  | rVV5 | 993    | 2047   | 0.50%   | 0.044% |
| 54 | 7.789 | 966  | 968  | 971  | rVV4 | 1414   | 1555   | 0.38%   | 0.034% |
| 55 | 7.819 | 971  | 973  | 977  | rVB5 | 1828   | 1954   | 0.47%   | 0.042% |
| 56 | 7.953 | 991  | 995  | 996  | rVV4 | 1315   | 1661   | 0.40%   | 0.036% |
| 57 | 8.014 | 1003 | 1005 | 1009 | rVB5 | 1842   | 1718   | 0.42%   | 0.037% |
| 58 | 8.166 | 1029 | 1030 | 1033 | rBV3 | 1146   | 1498   | 0.36%   | 0.032% |
| 59 | 8.276 | 1040 | 1048 | 1063 | rVV2 | 132550 | 412431 | 100.00% | 8.902% |
| 60 | 8.374 | 1063 | 1064 | 1066 | rVV2 | 1750   | 1677   | 0.41%   | 0.036% |
| 61 | 8.423 | 1070 | 1072 | 1075 | rVV4 | 1361   | 1862   | 0.45%   | 0.040% |
| 62 | 8.453 | 1075 | 1077 | 1081 | rVB4 | 1734   | 2194   | 0.53%   | 0.047% |
| 63 | 8.490 | 1081 | 1083 | 1086 | rBV4 | 2105   | 2268   | 0.55%   | 0.049% |
| 64 | 8.642 | 1106 | 1108 | 1111 | rVB4 | 1894   | 1889   | 0.46%   | 0.041% |
| 65 | 8.691 | 1115 | 1116 | 1120 | rBV4 | 1647   | 1576   | 0.38%   | 0.034% |
| 66 | 8.843 | 1132 | 1141 | 1155 | rBV  | 133518 | 280319 | 67.97%  | 6.050% |
| 67 | 9.148 | 1188 | 1191 | 1193 | rBV4 | 1912   | 1826   | 0.44%   | 0.039% |
| 68 | 9.276 | 1202 | 1212 | 1221 | rBV  | 103837 | 214626 | 52.04%  | 4.632% |
| 69 | 9.422 | 1233 | 1236 | 1239 | rVB5 | 1829   | 2582   | 0.63%   | 0.056% |
| 70 | 9.453 | 1239 | 1241 | 1243 | rBV3 | 2081   | 2336   | 0.57%   | 0.050% |
| 71 | 9.483 | 1243 | 1246 | 1248 | rVV4 | 1951   | 2527   | 0.61%   | 0.055% |
| 72 | 9.556 | 1255 | 1258 | 1259 | rVV3 | 2593   | 1858   | 0.45%   | 0.040% |
| 73 | 9.611 | 1262 | 1267 | 1268 | rVV5 | 1462   | 2078   | 0.50%   | 0.045% |
| 74 | 9.630 | 1268 | 1270 | 1272 | rVV3 | 1403   | 1493   | 0.36%   | 0.032% |
| 75 | 9.678 | 1277 | 1278 | 1283 | rVV5 | 1640   | 1800   | 0.44%   | 0.039% |
| 76 | 9.721 | 1283 | 1285 | 1289 | rVV5 | 1512   | 2130   | 0.52%   | 0.046% |

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Integration Parameters: LSCINT.P

Integrator: RTE

Smoothing : OFF

Filtering: 5

Sampling : 1

Min Area: 0 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM050123SMA.M  
 Title : SFAM01.0

|     |        |      |      |      |      |        |        |        |        |
|-----|--------|------|------|------|------|--------|--------|--------|--------|
| 77  | 10.038 | 1330 | 1337 | 1344 | rBV2 | 42043  | 82354  | 19.97% | 1.777% |
| 78  | 10.105 | 1346 | 1348 | 1351 | rBV4 | 2032   | 1592   | 0.39%  | 0.034% |
| 79  | 10.203 | 1360 | 1364 | 1366 | rBV5 | 2238   | 2200   | 0.53%  | 0.047% |
| 80  | 10.319 | 1376 | 1383 | 1391 | rBV  | 148923 | 278265 | 67.47% | 6.006% |
| 81  | 10.581 | 1417 | 1426 | 1432 | rBV  | 25480  | 50500  | 12.24% | 1.090% |
| 82  | 10.690 | 1442 | 1444 | 1450 | rBV4 | 3241   | 5871   | 1.42%  | 0.127% |
| 83  | 10.800 | 1459 | 1462 | 1464 | rBV4 | 2132   | 2528   | 0.61%  | 0.055% |
| 84  | 10.843 | 1467 | 1469 | 1471 | rVB3 | 2424   | 1636   | 0.40%  | 0.035% |
| 85  | 10.928 | 1477 | 1483 | 1490 | rBV  | 32094  | 63000  | 15.28% | 1.360% |
| 86  | 11.068 | 1501 | 1506 | 1512 | rBV6 | 4304   | 11020  | 2.67%  | 0.238% |
| 87  | 11.227 | 1529 | 1532 | 1533 | rBV3 | 3442   | 4055   | 0.98%  | 0.088% |
| 88  | 11.629 | 1592 | 1598 | 1605 | rBV  | 173550 | 292683 | 70.97% | 6.317% |
| 89  | 11.830 | 1627 | 1631 | 1637 | rBV2 | 13278  | 26368  | 6.39%  | 0.569% |
| 90  | 12.385 | 1714 | 1722 | 1736 | rVB4 | 18414  | 74456  | 18.05% | 1.607% |
| 91  | 12.599 | 1755 | 1757 | 1764 | rVB2 | 13106  | 21655  | 5.25%  | 0.467% |
| 92  | 12.690 | 1767 | 1772 | 1778 | rBV  | 76215  | 126659 | 30.71% | 2.734% |
| 93  | 13.281 | 1860 | 1869 | 1882 | rBV2 | 92527  | 324887 | 78.77% | 7.012% |
| 94  | 13.556 | 1909 | 1914 | 1920 | rVB2 | 115625 | 188614 | 45.73% | 4.071% |
| 95  | 13.848 | 1956 | 1962 | 1968 | rBV  | 126383 | 252421 | 61.20% | 5.448% |
| 96  | 14.513 | 2064 | 2071 | 2081 | rVB7 | 34550  | 110960 | 26.90% | 2.395% |
| 97  | 14.927 | 2131 | 2139 | 2150 | rBV2 | 110852 | 355645 | 86.23% | 7.676% |
| 98  | 15.049 | 2153 | 2159 | 2167 | rVB4 | 75147  | 212820 | 51.60% | 4.593% |
| 99  | 15.598 | 2241 | 2249 | 2263 | rVB7 | 85591  | 325375 | 78.89% | 7.023% |
| 100 | 16.098 | 2324 | 2331 | 2337 | rBV3 | 44036  | 135745 | 32.91% | 2.930% |

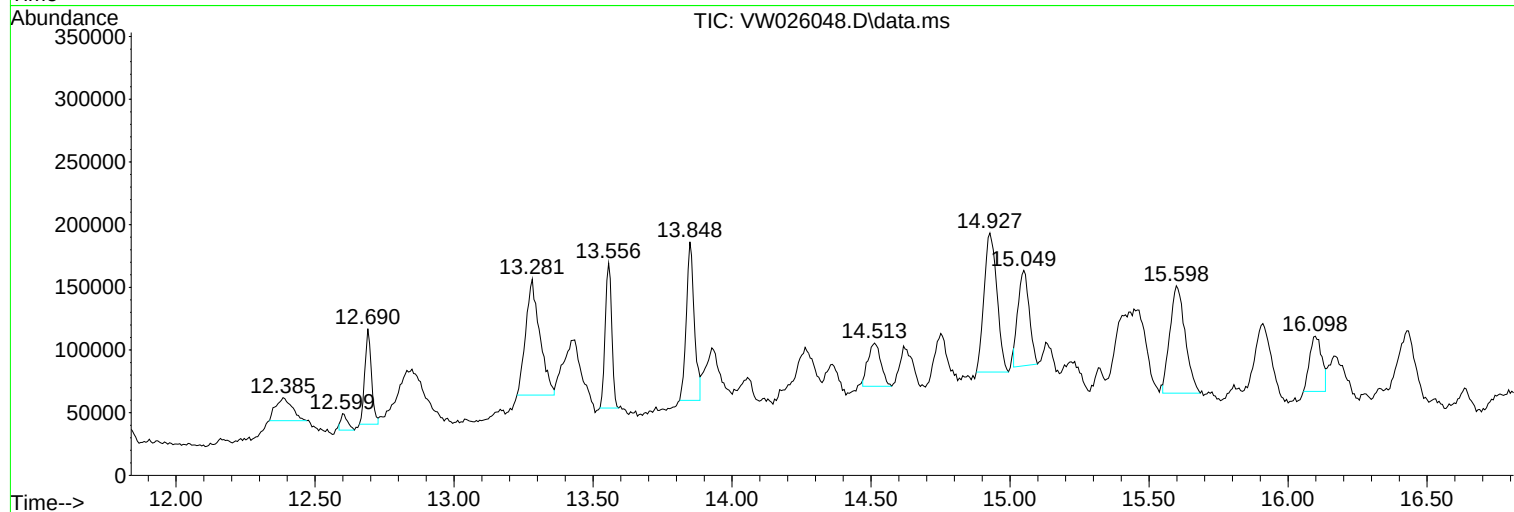
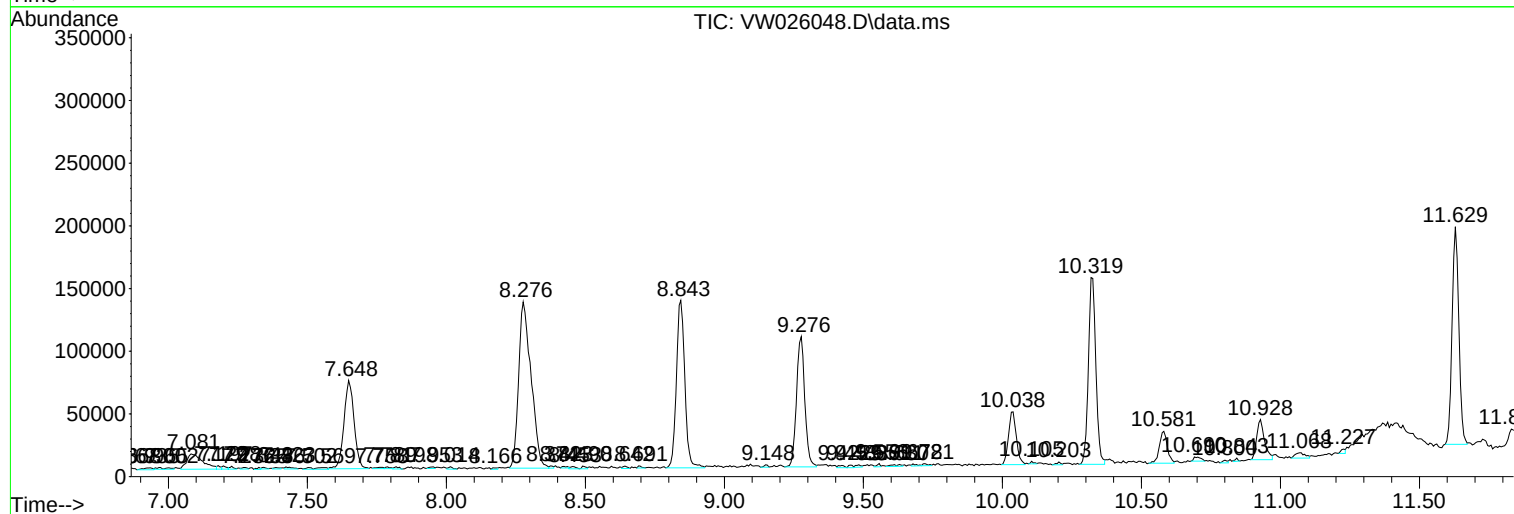
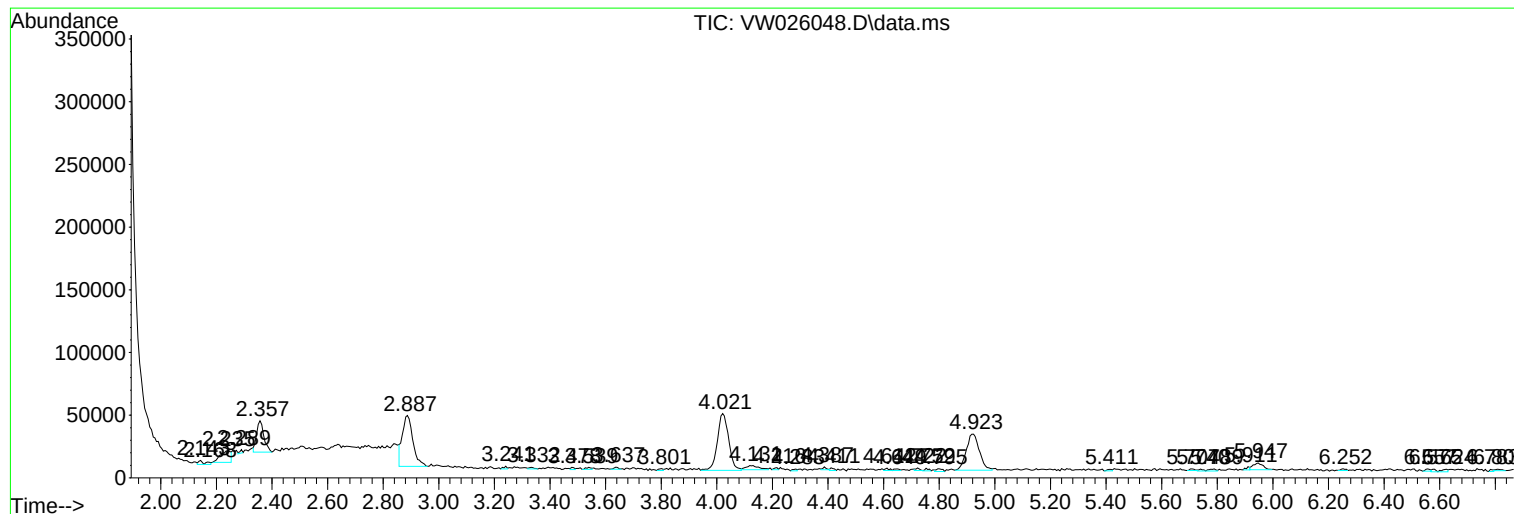
Sum of corrected areas: 4633200

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM050123SMA.M  
Quant Title : SFAM01.0

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW052523\  
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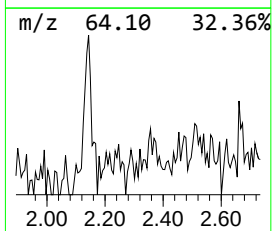
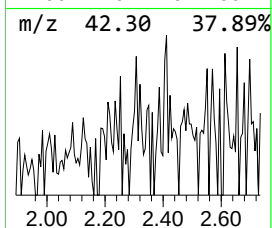
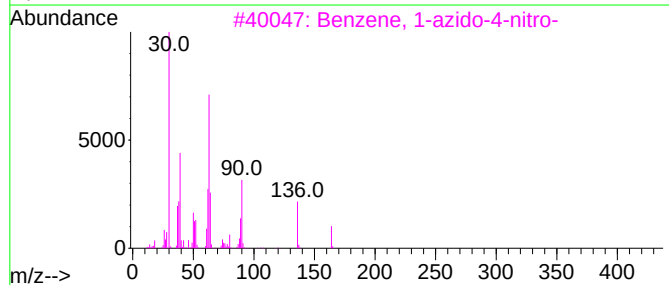
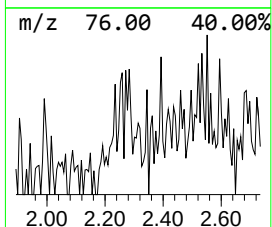
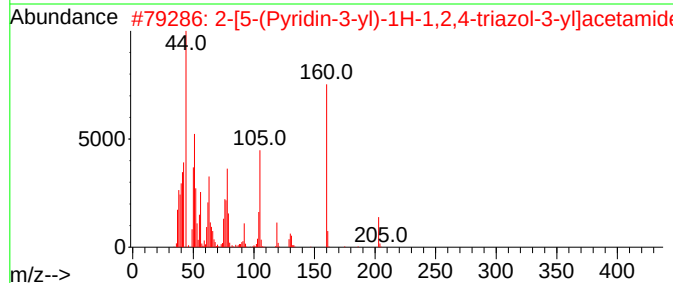
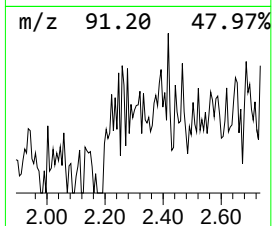
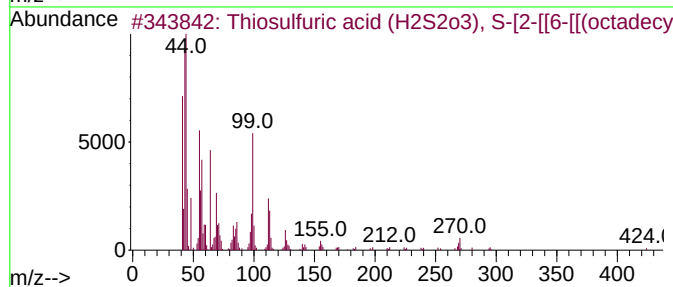
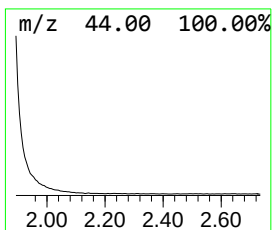
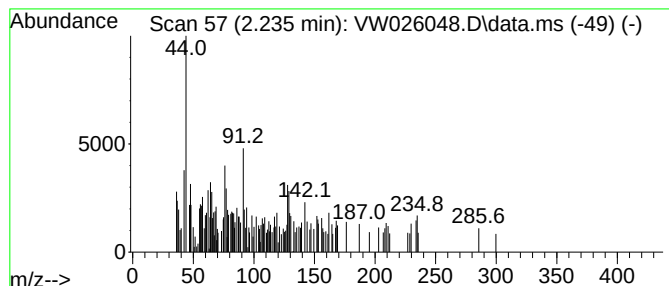
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM050123SMA.M  
Quant Title : SFAM01.0

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 unknown-01 Concentration Rank 10

| R.T.  | EstConc   | Area  | Relative to ISTD    | R.T.  |
|-------|-----------|-------|---------------------|-------|
| 2.235 | 2.19 ug/L | 24588 | 1,4-Difluorobenzene | 8.843 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm      | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|--------------|--------------|------|
| 1    |    |   | Thiosulfuric acid (H2S2O3), S-[2... | 551 | C27H57N3O4S2 | 062228-37-9  | 37   |
| 2    |    |   | 2-[5-(Pyridin-3-yl)-1H-1,2,4-tri... | 203 | C9H9N5O      | 1000410-33-9 | 30   |
| 3    |    |   | Benzene, 1-azido-4-nitro-           | 164 | C6H4N4O2     | 001516-60-5  | 27   |
| 4    |    |   | Ethanethiol, 2-(5-phthalimidopen... | 372 | C15H20N2O5S2 | 031792-45-7  | 23   |
| 5    |    |   | N,N'-Octamethylenebis[s-3-aminop... | 452 | C14H32N2O6S4 | 035871-57-9  | 16   |



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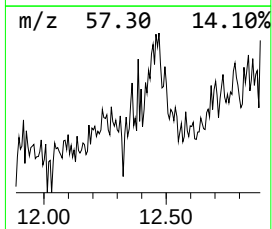
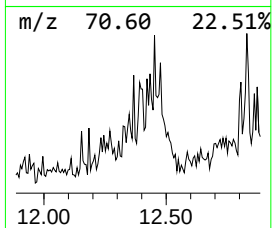
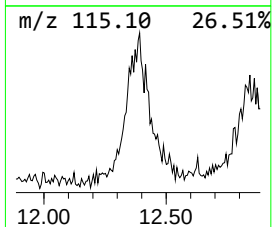
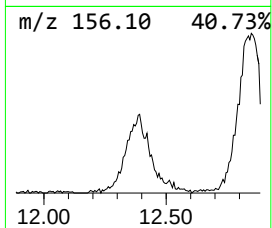
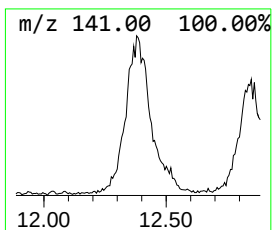
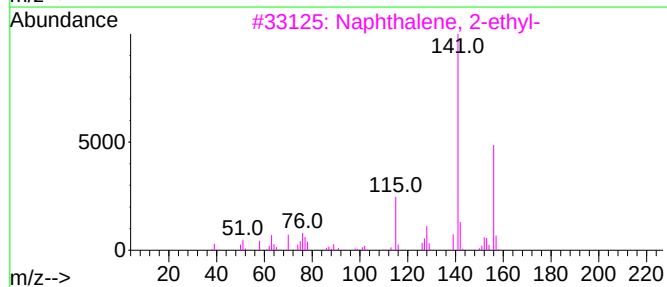
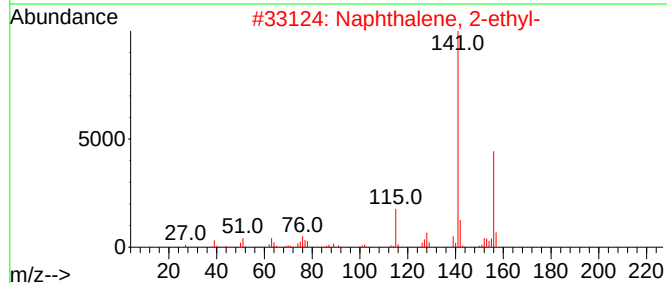
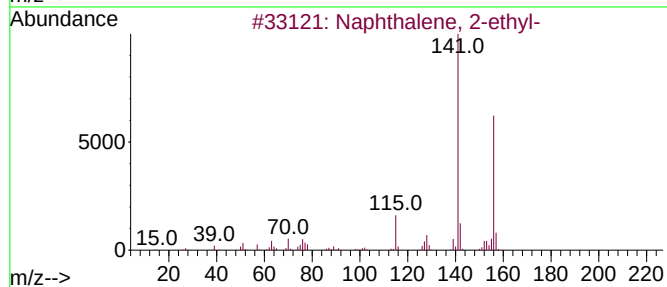
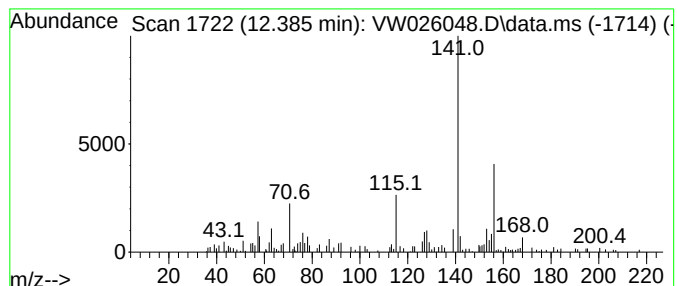
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM050123SMA.M  
Quant Title : SFAM01.0

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 Naphthalene, 2-ethyl- Concentration Rank 8

| R.T.   | EstConc   | Area  | Relative to ISTD | R.T.   |
|--------|-----------|-------|------------------|--------|
| 12.385 | 6.36 ug/L | 74456 | Chlorobenzene-d5 | 11.629 |

| Hit# | of | 5 | Tentative ID                      | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 2-ethyl-             | 156 | C12H12  | 000939-27-5 | 72   |
| 2    |    |   | Naphthalene, 2-ethyl-             | 156 | C12H12  | 000939-27-5 | 59   |
| 3    |    |   | Naphthalene, 2-ethyl-             | 156 | C12H12  | 000939-27-5 | 59   |
| 4    |    |   | 3',4'-Difluoroacetophenone        | 156 | C8H6F2O | 000369-33-5 | 47   |
| 5    |    |   | Ethanone, 1-(2,4-difluorophenyl)- | 156 | C8H6F2O | 000364-83-0 | 46   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW052523\  
Data File : VW026048.D  
Acq On : 25 May 2023 18:14  
Operator : SY/MD  
Sample : 02950-11  
Misc : 4.70g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
EW989

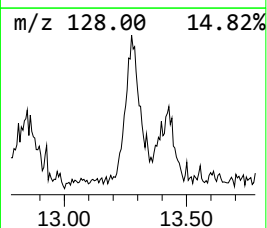
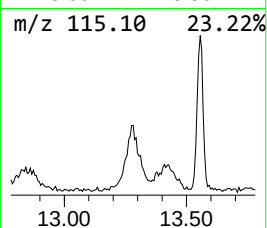
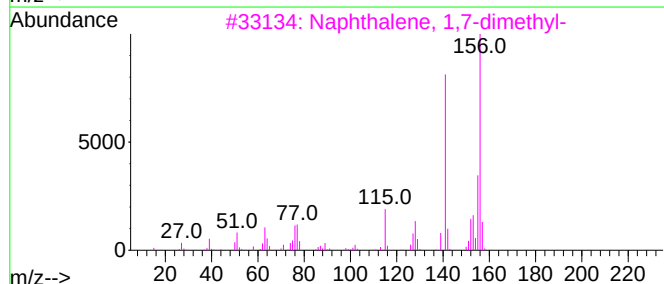
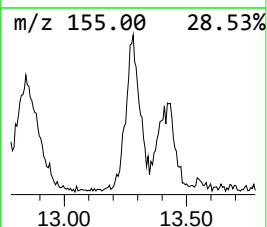
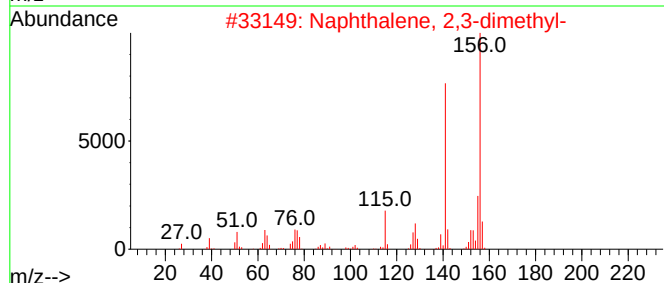
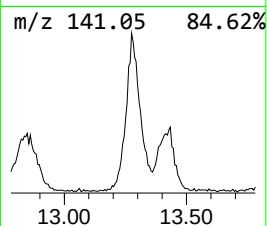
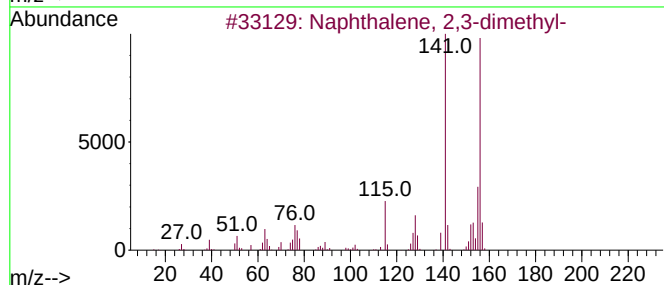
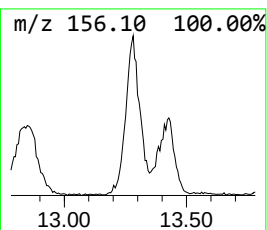
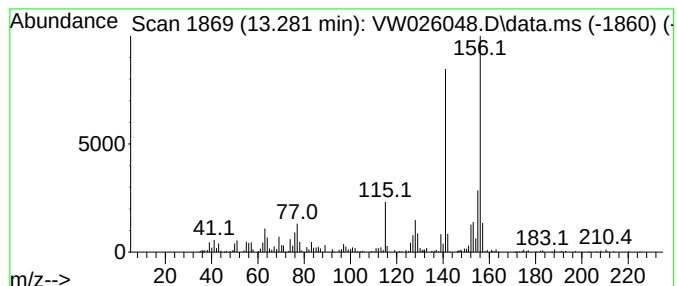
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Quant Title : SFAM01.0

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Naphthalene, 2,3-dimethyl- Concentration Rank 3

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 13.281 | 43.06 ug/L | 324887 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 98   |
| 2    |    |   | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 97   |
| 3    |    |   | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 97   |
| 4    |    |   | Naphthalene, 2,6-dimethyl- | 156 | C12H12  | 000581-42-0 | 96   |
| 5    |    |   | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 96   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW052523\  
Data File : VW026048.D  
Acq On : 25 May 2023 18:14  
Operator : SY/MD  
Sample : 02950-11  
Misc : 4.70g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
EW989

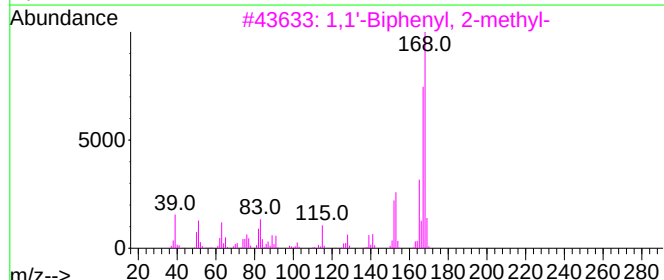
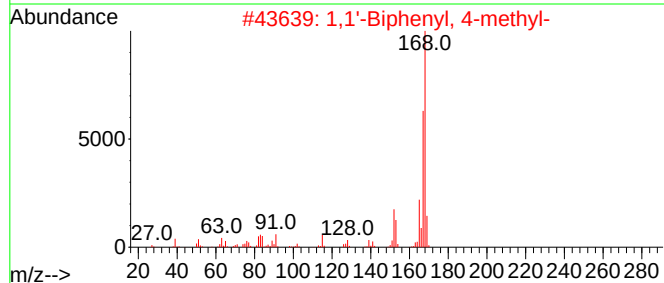
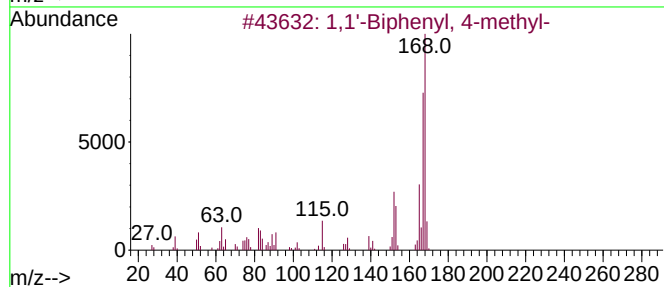
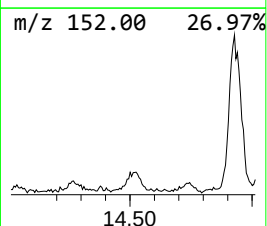
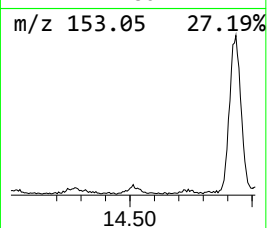
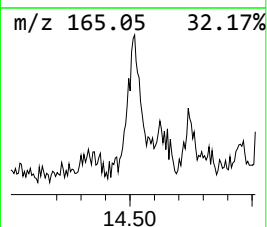
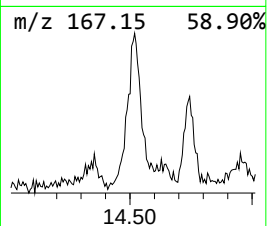
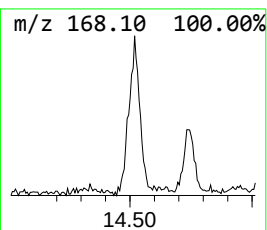
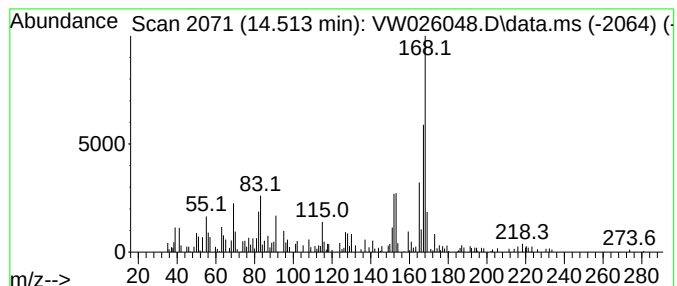
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Quant Title : SFAM01.0

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 1,1'-Biphenyl, 4-methyl- Concentration Rank 6

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 14.513 | 14.71 ug/L | 110960 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of                       | 5   | Tentative ID | MW          | MolForm | CAS# | Qual |
|------|--------------------------|-----|--------------|-------------|---------|------|------|
| 1    | 1,1'-Biphenyl, 4-methyl- | 168 | C13H12       | 000644-08-6 | 83      |      |      |
| 2    | 1,1'-Biphenyl, 4-methyl- | 168 | C13H12       | 000644-08-6 | 81      |      |      |
| 3    | 1,1'-Biphenyl, 2-methyl- | 168 | C13H12       | 000643-58-3 | 74      |      |      |
| 4    | 1,1'-Biphenyl, 3-methyl- | 168 | C13H12       | 000643-93-6 | 74      |      |      |
| 5    | 1,1'-Biphenyl, 4-methyl- | 168 | C13H12       | 000644-08-6 | 72      |      |      |





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW052523\  
Data File : VW026048.D  
Acq On : 25 May 2023 18:14  
Operator : SY/MD  
Sample : 02950-11  
Misc : 4.70g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
EW989

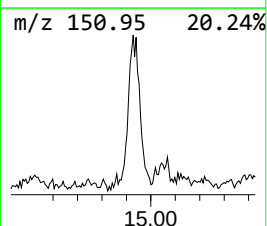
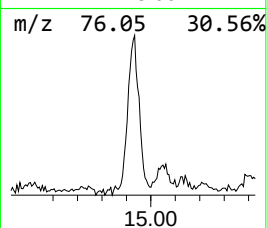
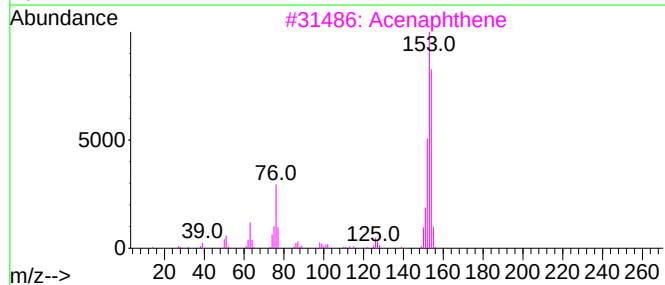
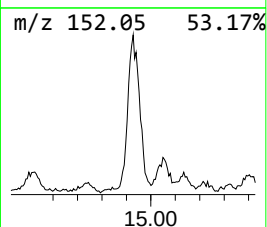
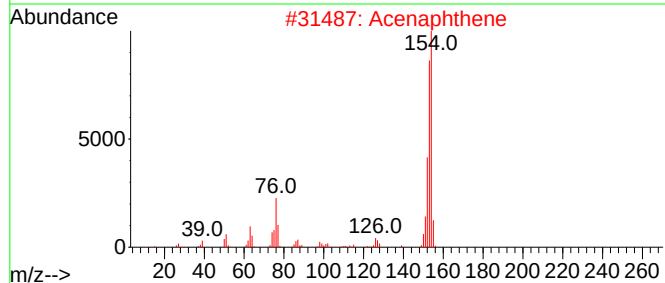
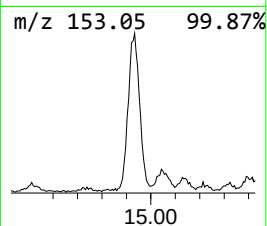
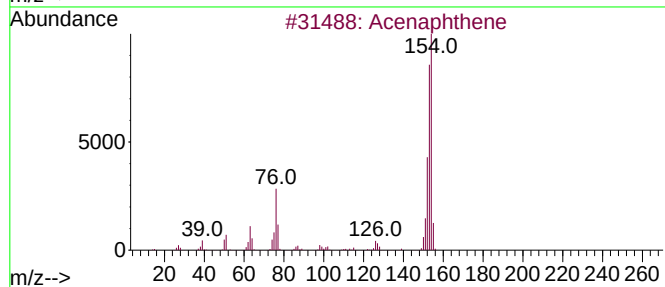
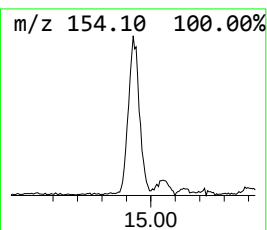
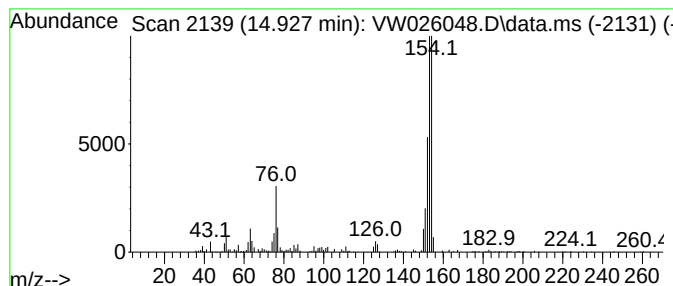
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Quant Title : SFAM01.0

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 unknown-02 Concentration Rank 1

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 14.928 | 47.14 ug/L | 355645 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------------|-----|---------|-------------|------|
| 1    |    |   | Acenaphthene                     | 154 | C12H10  | 000083-32-9 | 90   |
| 2    |    |   | Acenaphthene                     | 154 | C12H10  | 000083-32-9 | 90   |
| 3    |    |   | Acenaphthene                     | 154 | C12H10  | 000083-32-9 | 86   |
| 4    |    |   | Acenaphthene                     | 154 | C12H10  | 000083-32-9 | 64   |
| 5    |    |   | Thieno[2,3-b]thiophene,2-methyl- | 154 | C7H6S2  | 013393-75-4 | 47   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW052523\  
Data File : VW026048.D  
Acq On : 25 May 2023 18:14  
Operator : SY/MD  
Sample : 02950-11  
Misc : 4.70g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
EW989

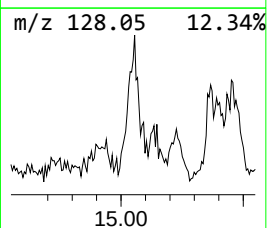
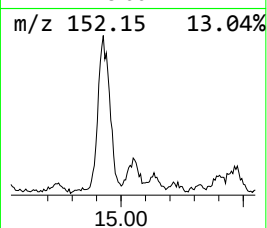
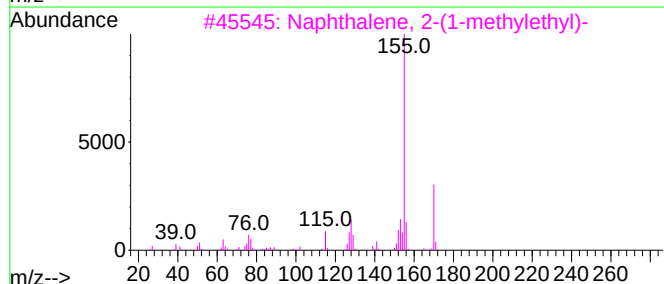
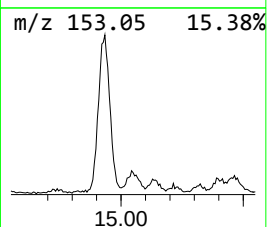
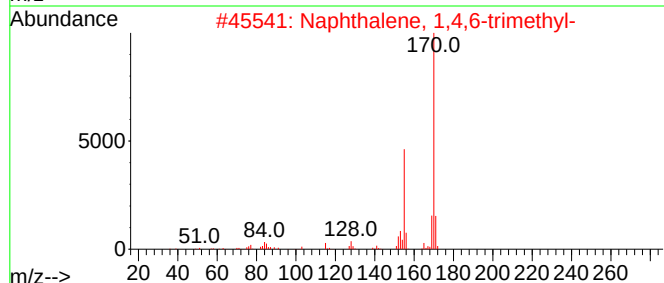
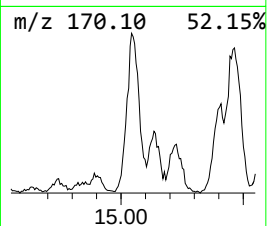
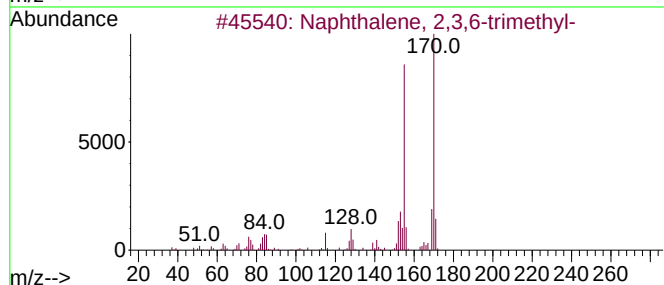
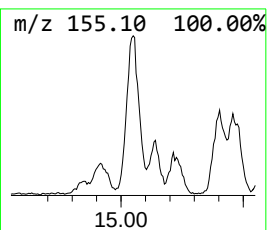
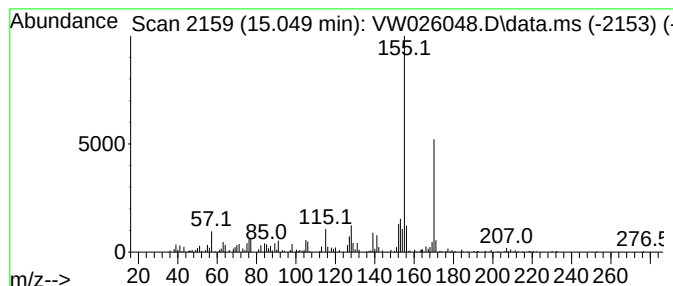
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Quant Title : SFAM01.0

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Naphthalene, 2,3,6-trimethyl- Concentration Rank 4

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 15.049 | 28.21 ug/L | 212820 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                    | MW  | MolForm | CAS#         | Qual |
|------|----|---|---------------------------------|-----|---------|--------------|------|
| 1    |    |   | Naphthalene, 2,3,6-trimethyl-   | 170 | C13H14  | 000829-26-5  | 91   |
| 2    |    |   | Naphthalene, 1,4,6-trimethyl-   | 170 | C13H14  | 002131-42-2  | 91   |
| 3    |    |   | Naphthalene, 2-(1-methylethyl)- | 170 | C13H14  | 002027-17-0  | 91   |
| 4    |    |   | 3-(2-Methyl-propenyl)-1H-indene | 170 | C13H14  | 1000187-78-5 | 87   |
| 5    |    |   | Naphthalene, 2-(1-methylethyl)- | 170 | C13H14  | 002027-17-0  | 87   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW052523\  
Data File : VW026048.D  
Acq On : 25 May 2023 18:14  
Operator : SY/MD  
Sample : 02950-11  
Misc : 4.70g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
EW989

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM050123SMA.M  
Quant Title : SFAM01.0

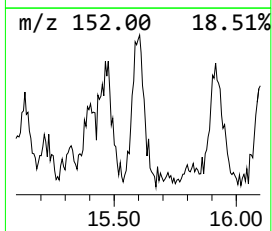
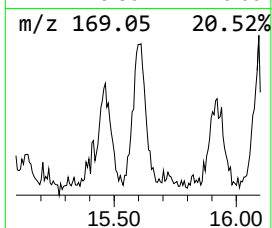
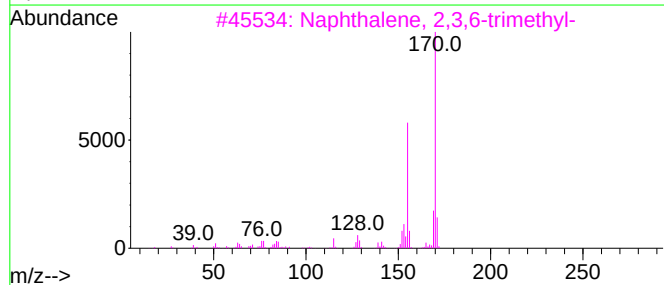
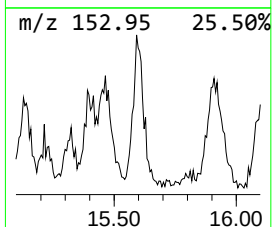
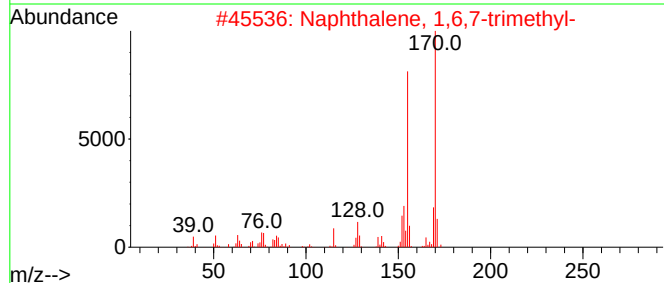
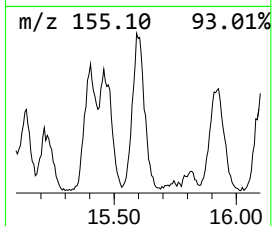
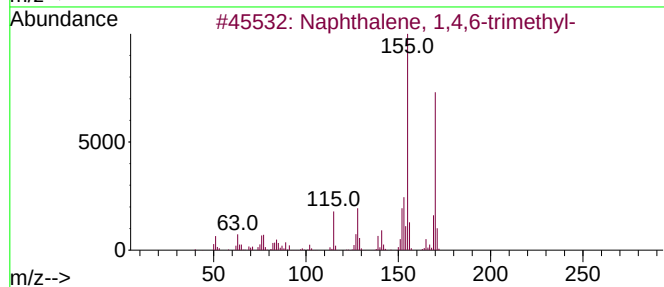
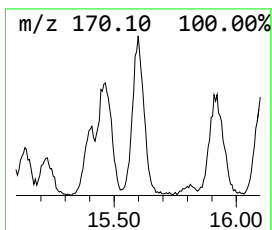
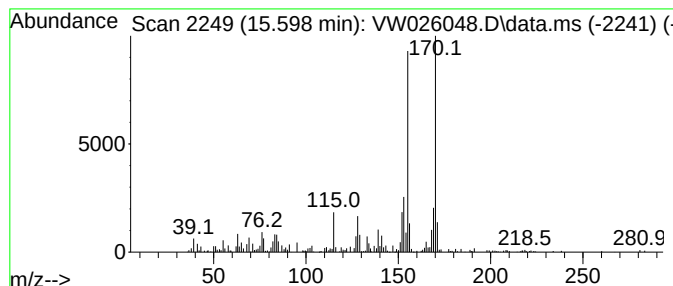
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TIC Integration Parameters: LSCINT.P

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Peak Number 9 Naphthalene, 1,4,6-trimethyl- Concentration Rank 2

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 15.598 | 43.13 ug/L | 325375 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 1,4,6-trimethyl- | 170 | C13H14  | 002131-42-2 | 97   |
| 2    |    |   | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14  | 002245-38-7 | 97   |
| 3    |    |   | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14  | 000829-26-5 | 95   |
| 4    |    |   | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14  | 000829-26-5 | 95   |
| 5    |    |   | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14  | 002245-38-7 | 94   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW052523\  
Data File : VW026048.D  
Acq On : 25 May 2023 18:14  
Operator : SY/MD  
Sample : 02950-11  
Misc : 4.70g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
EW989

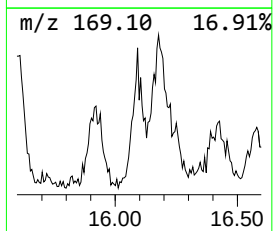
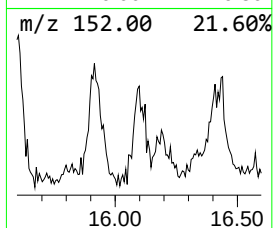
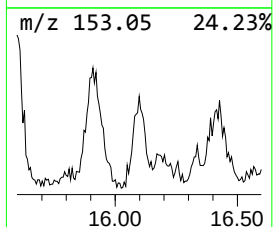
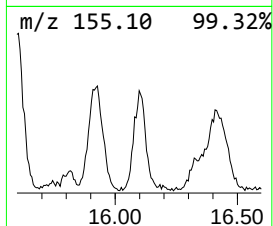
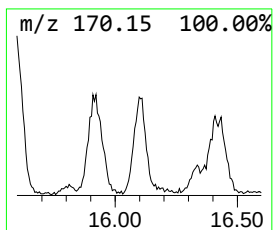
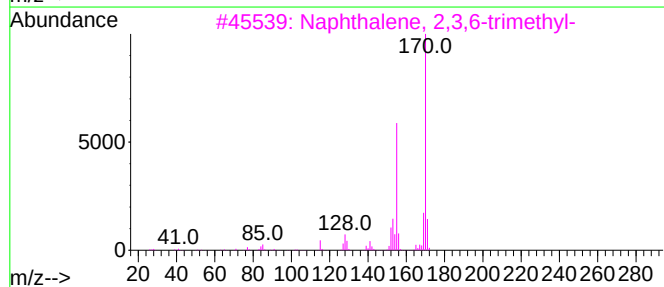
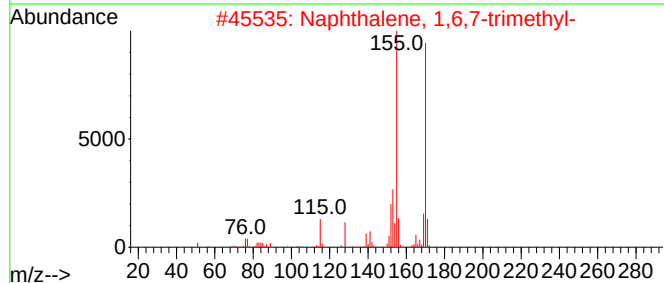
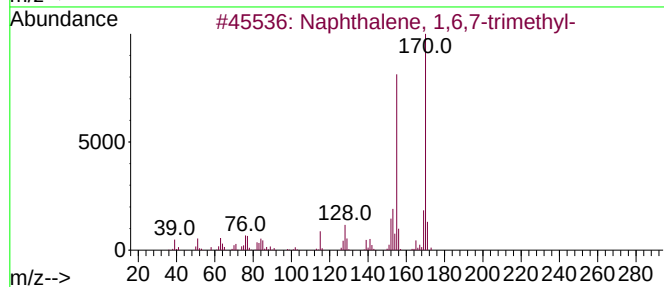
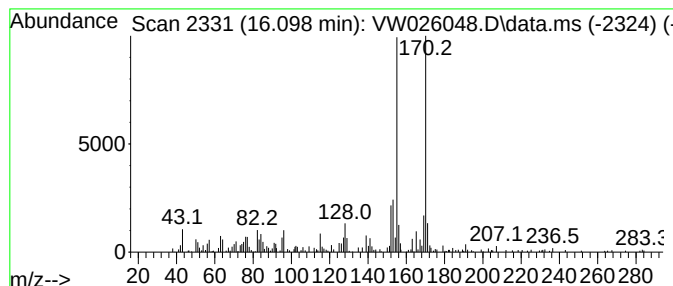
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Quant Title : SFAM01.0

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 Naphthalene, 1,6,7-trimethyl- Concentration Rank 5

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 16.098 | 17.99 ug/L | 135745 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14  | 002245-38-7 | 97   |
| 2    |    |   | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14  | 002245-38-7 | 93   |
| 3    |    |   | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14  | 000829-26-5 | 93   |
| 4    |    |   | Naphthalene, 1,4,5-trimethyl- | 170 | C13H14  | 002131-41-1 | 91   |
| 5    |    |   | 4,6,8-Trimethylazulene        | 170 | C13H14  | 000941-81-1 | 91   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW052523\  
Data File : VW026048.D  
Acq On : 25 May 2023 18:14  
Operator : SY/MD  
Sample : 02950-11  
Misc : 4.70g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
EW989

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM050123SMA.M  
Quant Title : SFAM01.0

TIC Library : C:\Database\NIST0.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name   | RT     | EstConc | Units | Response | --Internal Standard-- |        |        |      |
|--------------------|--------|---------|-------|----------|-----------------------|--------|--------|------|
|                    |        |         |       |          | #                     | RT     | Resp   | Conc |
| unknown-01         | 2.235  | 2.2     | ug/L  | 24588    | 1                     | 8.843  | 280319 | 25.0 |
| Naphthalene, 2-... | 12.385 | 6.4     | ug/L  | 74456    | 2                     | 11.629 | 292683 | 25.0 |
| Naphthalene, 2,... | 13.281 | 43.1    | ug/L  | 324887   | 3                     | 13.556 | 188614 | 25.0 |
| 1,1'-Biphenyl, ... | 14.513 | 14.7    | ug/L  | 110960   | 3                     | 13.556 | 188614 | 25.0 |
| unknown-02         | 14.928 | 47.1    | ug/L  | 355645   | 3                     | 13.556 | 188614 | 25.0 |
| Naphthalene, 2,... | 15.049 | 28.2    | ug/L  | 212820   | 3                     | 13.556 | 188614 | 25.0 |
| Naphthalene, 1,... | 15.598 | 43.1    | ug/L  | 325375   | 3                     | 13.556 | 188614 | 25.0 |
| Naphthalene, 1,... | 16.098 | 18.0    | ug/L  | 135745   | 3                     | 13.556 | 188614 | 25.0 |