

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
 Data File : VW026507.D  
 Acq On : 01 Jul 2023 06:00  
 Operator : SY/MD  
 Sample : 03501-05  
 Misc : 4.61g/10mL/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 A46W2

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\SFAMWLM062923SMA.M  
 Title : SFAM01.0

Signal : TIC: VW026507.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         | 2.119       | 36            | 38          | 40           | rBV3     | 2033           | 2245          | 0.03%           | 0.024%        |
| 2         | 2.149       | 40            | 43          | 45           | rVV2     | 3769           | 4515          | 0.06%           | 0.049%        |
| 3         | 2.247       | 52            | 59          | 60           | rBV7     | 7405           | 16399         | 0.23%           | 0.177%        |
| 4         | 2.357       | 73            | 77          | 81           | rBV      | 7877           | 11629         | 0.16%           | 0.126%        |
| 5         | 2.698       | 131           | 133         | 135          | rBV3     | 1527           | 1217          | 0.02%           | 0.013%        |
| 6         | 2.795       | 147           | 149         | 150          | rBV2     | 1404           | 926           | 0.01%           | 0.010%        |
| 7         | 2.863       | 157           | 160         | 161          | rBV2     | 1513           | 1429          | 0.02%           | 0.015%        |
| 8         | 2.893       | 161           | 165         | 169          | rBV      | 8693           | 16884         | 0.24%           | 0.183%        |
| 9         | 3.033       | 185           | 188         | 189          | rBV3     | 1960           | 1980          | 0.03%           | 0.021%        |
| 10        | 3.052       | 189           | 191         | 194          | rVV4     | 1942           | 1748          | 0.02%           | 0.019%        |
| 11        | 3.082       | 194           | 196         | 199          | rVB4     | 1229           | 1163          | 0.02%           | 0.013%        |
| 12        | 3.149       | 204           | 207         | 210          | rVB5     | 2159           | 3394          | 0.05%           | 0.037%        |
| 13        | 3.180       | 210           | 212         | 213          | rBV2     | 1555           | 1116          | 0.02%           | 0.012%        |
| 14        | 3.198       | 213           | 215         | 216          | rBV2     | 1197           | 996           | 0.01%           | 0.011%        |
| 15        | 3.253       | 222           | 224         | 227          | rVB4     | 1920           | 2176          | 0.03%           | 0.024%        |
| 16        | 3.289       | 227           | 230         | 233          | rVB5     | 1137           | 1428          | 0.02%           | 0.015%        |
| 17        | 3.405       | 246           | 249         | 251          | rVB4     | 1526           | 1380          | 0.02%           | 0.015%        |
| 18        | 3.460       | 256           | 258         | 267          | rVB9     | 1539           | 2859          | 0.04%           | 0.031%        |
| 19        | 3.594       | 278           | 280         | 282          | rVB3     | 1454           | 1009          | 0.01%           | 0.011%        |
| 20        | 3.649       | 285           | 289         | 290          | rVV4     | 1736           | 1822          | 0.03%           | 0.020%        |
| 21        | 3.686       | 293           | 295         | 298          | rBV4     | 1602           | 1847          | 0.03%           | 0.020%        |
| 22        | 3.734       | 301           | 303         | 304          | rBV2     | 1177           | 1096          | 0.02%           | 0.012%        |
| 23        | 3.747       | 304           | 305         | 308          | rVV3     | 1889           | 1363          | 0.02%           | 0.015%        |
| 24        | 3.808       | 313           | 315         | 318          | rVV3     | 1624           | 1844          | 0.03%           | 0.020%        |
| 25        | 3.838       | 318           | 320         | 323          | rVV4     | 1493           | 2162          | 0.03%           | 0.023%        |
| 26        | 3.917       | 330           | 333         | 337          | rBV6     | 1079           | 1946          | 0.03%           | 0.021%        |
| 27        | 3.966       | 337           | 341         | 343          | rBV5     | 1283           | 1617          | 0.02%           | 0.017%        |
| 28        | 4.033       | 343           | 352         | 359          | rVV2     | 19161          | 53822         | 0.76%           | 0.582%        |
| 29        | 4.112       | 361           | 365         | 367          | rVV5     | 4926           | 8336          | 0.12%           | 0.090%        |
| 30        | 4.131       | 367           | 368         | 372          | rVV2     | 6089           | 8913          | 0.13%           | 0.096%        |
| 31        | 4.167       | 372           | 374         | 379          | rVV6     | 3442           | 5260          | 0.07%           | 0.057%        |
| 32        | 4.204       | 379           | 380         | 381          | rVV      | 2067           | 992           | 0.01%           | 0.011%        |
| 33        | 4.222       | 381           | 383         | 384          | rVV2     | 1374           | 1234          | 0.02%           | 0.013%        |
| 34        | 4.234       | 384           | 385         | 390          | rVV5     | 1849           | 2606          | 0.04%           | 0.028%        |
| 35        | 4.307       | 394           | 397         | 402          | rVB7     | 1085           | 1979          | 0.03%           | 0.021%        |
| 36        | 4.356       | 402           | 405         | 406          | rBV3     | 1625           | 1589          | 0.02%           | 0.017%        |

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 MSVOA\_W  
 ClientSampleId :  
 A46W2

Integration Parameters: LSCINT.P

Integrator: RTE

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Filtering: 5

Sampling : 1

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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\SFAMWLM062923SMA.M  
 Title : SFAM01.0

|    |       |     |     |     |      |      |      |       |        |
|----|-------|-----|-----|-----|------|------|------|-------|--------|
| 37 | 4.374 | 406 | 408 | 410 | rVB2 | 2129 | 2104 | 0.03% | 0.023% |
| 38 | 4.454 | 420 | 421 | 426 | rVB5 | 1273 | 1755 | 0.02% | 0.019% |
| 39 | 4.496 | 426 | 428 | 430 | rBV3 | 1129 | 1066 | 0.02% | 0.012% |
| 40 | 4.673 | 456 | 457 | 462 | rVB5 | 612  | 999  | 0.01% | 0.011% |
| 41 | 4.759 | 467 | 471 | 472 | rBV4 | 890  | 1308 | 0.02% | 0.014% |
| 42 | 4.984 | 506 | 508 | 509 | rBV2 | 1374 | 1063 | 0.01% | 0.012% |
| 43 | 5.015 | 509 | 513 | 514 | rVV4 | 2180 | 3096 | 0.04% | 0.034% |
| 44 | 5.033 | 514 | 516 | 523 | rVB7 | 3129 | 4666 | 0.07% | 0.050% |
| 45 | 5.161 | 536 | 537 | 539 | rBV2 | 1149 | 940  | 0.01% | 0.010% |
| 46 | 5.191 | 541 | 542 | 547 | rVB5 | 1185 | 1468 | 0.02% | 0.016% |
| 47 | 5.319 | 561 | 563 | 566 | rVB4 | 1100 | 1048 | 0.01% | 0.011% |
| 48 | 5.350 | 566 | 568 | 569 | rBV2 | 1555 | 1403 | 0.02% | 0.015% |
| 49 | 5.374 | 569 | 572 | 575 | rVB5 | 945  | 1187 | 0.02% | 0.013% |
| 50 | 5.417 | 576 | 579 | 580 | rVV3 | 1055 | 1034 | 0.01% | 0.011% |
| 51 | 5.447 | 582 | 584 | 585 | rVV2 | 1873 | 1223 | 0.02% | 0.013% |
| 52 | 5.466 | 585 | 587 | 590 | rVB4 | 1925 | 1671 | 0.02% | 0.018% |
| 53 | 5.533 | 597 | 598 | 601 | rBV3 | 1032 | 935  | 0.01% | 0.010% |
| 54 | 5.582 | 605 | 606 | 609 | rBV3 | 1085 | 1144 | 0.02% | 0.012% |
| 55 | 5.630 | 611 | 614 | 616 | rBV3 | 1820 | 2489 | 0.04% | 0.027% |
| 56 | 5.673 | 620 | 621 | 625 | rVB4 | 1530 | 1370 | 0.02% | 0.015% |
| 57 | 5.862 | 650 | 652 | 657 | rVB6 | 1582 | 1484 | 0.02% | 0.016% |
| 58 | 5.905 | 657 | 659 | 663 | rBV5 | 1341 | 1444 | 0.02% | 0.016% |
| 59 | 5.947 | 663 | 666 | 667 | rBV3 | 1659 | 1565 | 0.02% | 0.017% |
| 60 | 5.990 | 670 | 673 | 674 | rBV3 | 772  | 950  | 0.01% | 0.010% |
| 61 | 6.027 | 677 | 679 | 683 | rVB5 | 1333 | 1790 | 0.03% | 0.019% |
| 62 | 6.088 | 686 | 689 | 691 | rBV4 | 919  | 1078 | 0.02% | 0.012% |
| 63 | 6.118 | 691 | 694 | 698 | rVB6 | 1972 | 3215 | 0.05% | 0.035% |
| 64 | 6.167 | 698 | 702 | 703 | rBV4 | 1862 | 2760 | 0.04% | 0.030% |
| 65 | 6.203 | 705 | 708 | 709 | rBV3 | 2265 | 2585 | 0.04% | 0.028% |
| 66 | 6.399 | 737 | 740 | 741 | rVV3 | 1408 | 1358 | 0.02% | 0.015% |
| 67 | 6.435 | 741 | 746 | 748 | rBV6 | 1759 | 2258 | 0.03% | 0.024% |
| 68 | 6.520 | 756 | 760 | 763 | rBV6 | 1959 | 3565 | 0.05% | 0.039% |
| 69 | 6.648 | 779 | 781 | 783 | rBV3 | 898  | 955  | 0.01% | 0.010% |
| 70 | 6.679 | 783 | 786 | 788 | rVV3 | 1505 | 1580 | 0.02% | 0.017% |
| 71 | 6.703 | 788 | 790 | 793 | rVV4 | 1829 | 1828 | 0.03% | 0.020% |
| 72 | 6.746 | 793 | 797 | 798 | rVV4 | 1442 | 1960 | 0.03% | 0.021% |
| 73 | 6.776 | 800 | 802 | 803 | rVV2 | 1461 | 996  | 0.01% | 0.011% |
| 74 | 6.795 | 803 | 805 | 808 | rVV3 | 1835 | 2204 | 0.03% | 0.024% |
| 75 | 6.844 | 811 | 813 | 814 | rVB2 | 1430 | 996  | 0.01% | 0.011% |
| 76 | 6.886 | 814 | 820 | 823 | rBV8 | 2450 | 5441 | 0.08% | 0.059% |

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 MSVOA\_W  
 ClientSampleId :  
 A46W2

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\SFAMWLM062923SMA.M  
 Title : SFAM01.0

|     |        |      |      |      |      |         |         |         |         |
|-----|--------|------|------|------|------|---------|---------|---------|---------|
| 77  | 6.941  | 828  | 829  | 832  | rBV3 | 1573    | 1208    | 0.02%   | 0.013%  |
| 78  | 7.008  | 838  | 840  | 842  | rVB3 | 1500    | 1294    | 0.02%   | 0.014%  |
| 79  | 7.026  | 842  | 843  | 845  | rBV2 | 1222    | 1235    | 0.02%   | 0.013%  |
| 80  | 7.112  | 847  | 857  | 858  | rBV7 | 5012    | 11261   | 0.16%   | 0.122%  |
| 81  | 7.252  | 878  | 880  | 881  | rBV2 | 1473    | 1154    | 0.02%   | 0.012%  |
| 82  | 7.289  | 884  | 886  | 888  | rVB3 | 2242    | 1786    | 0.03%   | 0.019%  |
| 83  | 7.471  | 914  | 916  | 918  | rVB3 | 1609    | 1005    | 0.01%   | 0.011%  |
| 84  | 7.648  | 939  | 945  | 953  | rBV  | 27616   | 66753   | 0.94%   | 0.722%  |
| 85  | 7.728  | 956  | 958  | 959  | rVB2 | 2096    | 1371    | 0.02%   | 0.015%  |
| 86  | 7.953  | 993  | 995  | 996  | rBV2 | 1969    | 1057    | 0.01%   | 0.011%  |
| 87  | 8.069  | 1011 | 1014 | 1016 | rBV4 | 2421    | 3328    | 0.05%   | 0.036%  |
| 88  | 8.276  | 1041 | 1048 | 1059 | rBV3 | 57407   | 182695  | 2.58%   | 1.977%  |
| 89  | 8.843  | 1134 | 1141 | 1151 | rBV  | 66322   | 148647  | 2.10%   | 1.609%  |
| 90  | 9.276  | 1206 | 1212 | 1219 | rBV  | 44276   | 97272   | 1.37%   | 1.053%  |
| 91  | 10.325 | 1380 | 1384 | 1390 | rVB2 | 77887   | 135654  | 1.91%   | 1.468%  |
| 92  | 13.873 | 1962 | 1966 | 1970 | rBV4 | 144070  | 235655  | 3.32%   | 2.550%  |
| 93  | 13.976 | 1980 | 1983 | 1986 | rBV4 | 62967   | 84894   | 1.20%   | 0.919%  |
| 94  | 14.190 | 2014 | 2018 | 2022 | rBV5 | 66310   | 107402  | 1.51%   | 1.162%  |
| 95  | 14.257 | 2026 | 2029 | 2034 | rVV4 | 99349   | 156001  | 2.20%   | 1.688%  |
| 96  | 14.312 | 2035 | 2038 | 2042 | rVV4 | 43304   | 71434   | 1.01%   | 0.773%  |
| 97  | 14.379 | 2045 | 2049 | 2054 | rVB2 | 214641  | 368989  | 5.20%   | 3.993%  |
| 98  | 14.854 | 2113 | 2127 | 2143 | rVB2 | 2017162 | 7092671 | 100.00% | 76.759% |
| 99  | 15.318 | 2200 | 2203 | 2210 | rVB2 | 86264   | 144640  | 2.04%   | 1.565%  |
| 100 | 16.275 | 2356 | 2360 | 2368 | rVB2 | 42601   | 77893   | 1.10%   | 0.843%  |

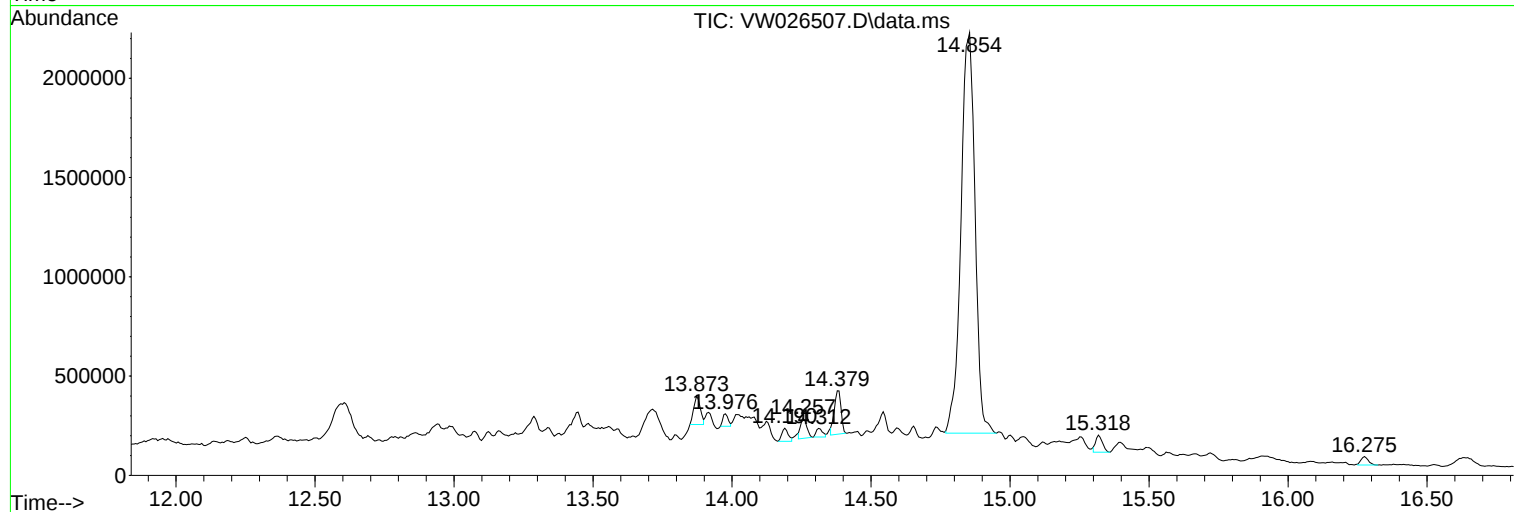
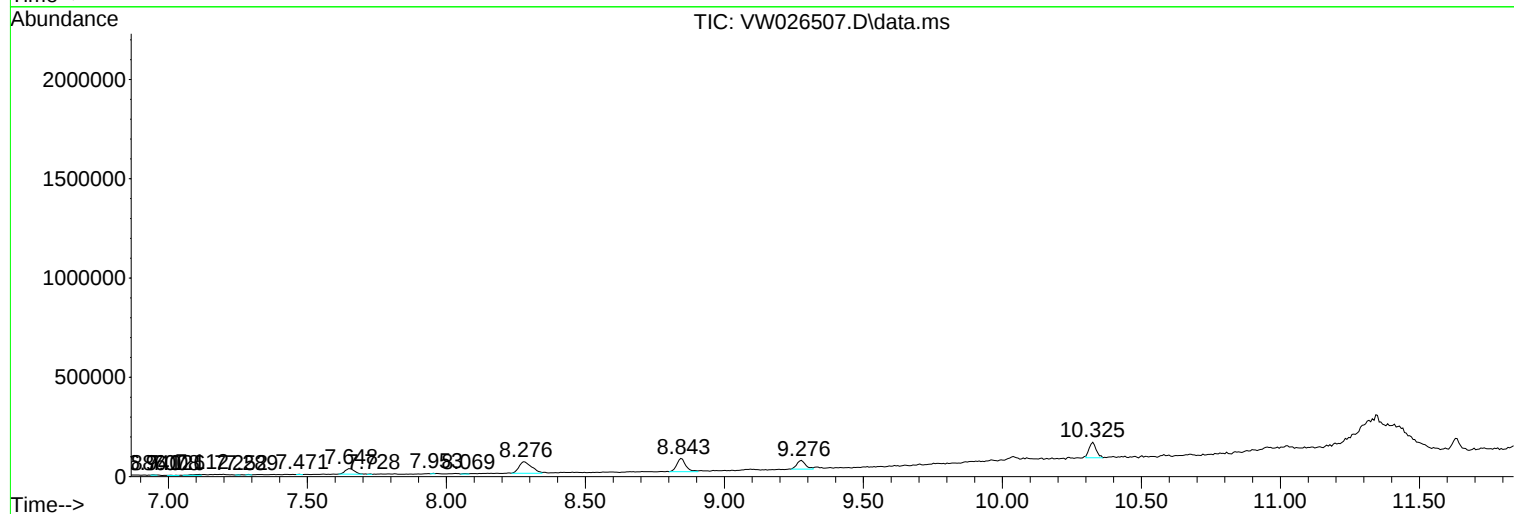
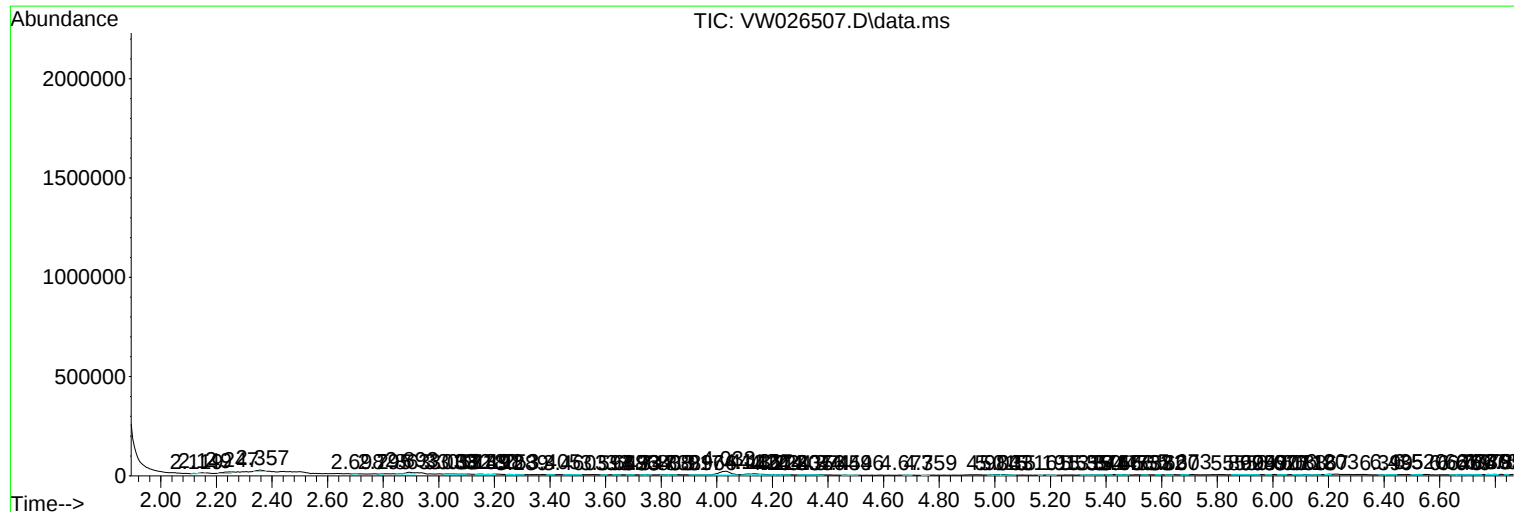
Sum of corrected areas: 9240201

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM062923SMA.M  
Quant Title : SFAM01.0

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
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MSVOA\_W  
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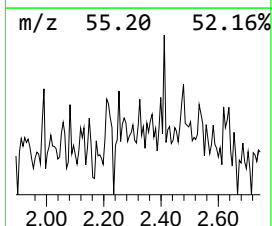
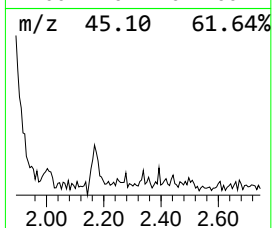
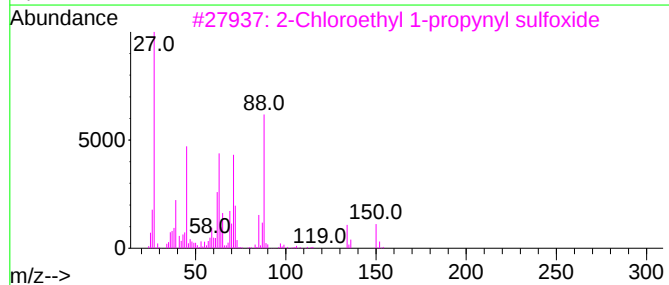
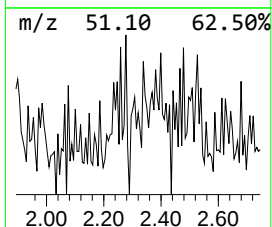
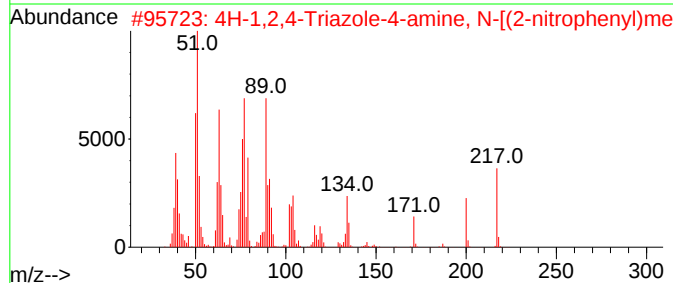
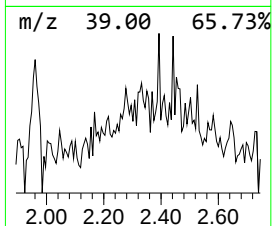
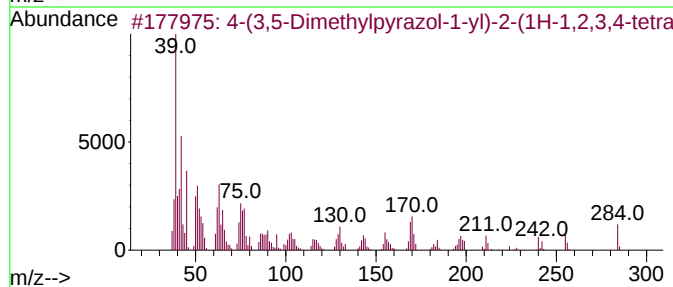
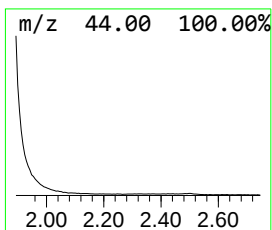
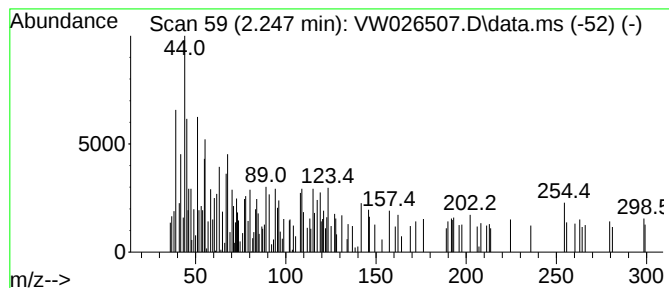
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM062923SMA.M  
Quant Title : SFAM01.0

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

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Peak Number 1 unknown-01 Concentration Rank 9

| R.T.  | EstConc   | Area  | Relative to ISTD    | R.T.  |
|-------|-----------|-------|---------------------|-------|
| 2.247 | 2.76 ug/L | 16399 | 1,4-Difluorobenzene | 8.843 |

| Hit# | of                                  | 5   | Tentative ID | MW           | MolForm | CAS# | Qual |
|------|-------------------------------------|-----|--------------|--------------|---------|------|------|
| 1    | 4-(3,5-Dimethylpyrazol-1-yl)-2-(... | 284 | C13H12N6O2   | 1000409-64-1 | 37      |      |      |
| 2    | 4H-1,2,4-Triazole-4-amine, N-[(2... | 217 | C9H7N5O2     | 035548-91-5  | 20      |      |      |
| 3    | 2-Chloroethyl 1-propynyl sulfoxide  | 150 | C5H7ClOS     | 1000250-50-5 | 12      |      |      |
| 4    | Propanenitrile, 3-[1-(5-nitro-2-... | 236 | C9H8N4O4     | 023326-60-5  | 12      |      |      |
| 5    | Phenol, 3-chloro-5-nitro-           | 173 | C6H4ClNO3    | 000618-63-3  | 12      |      |      |



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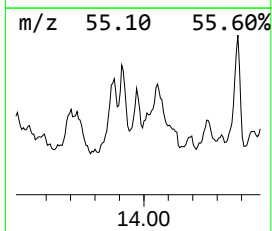
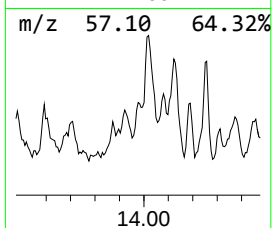
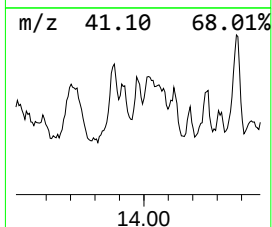
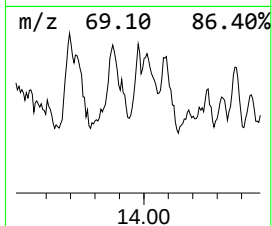
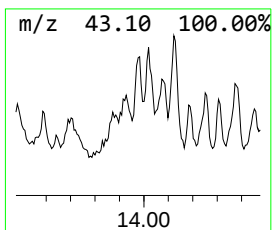
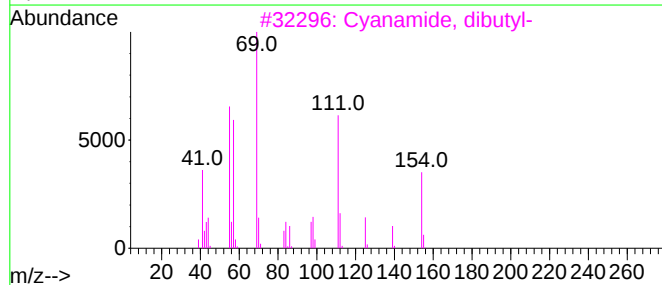
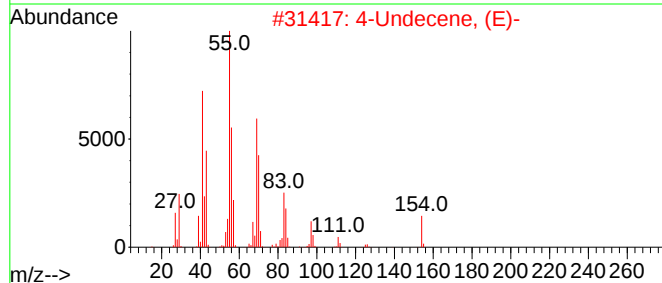
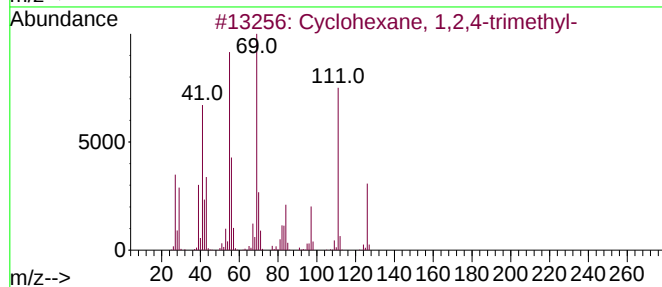
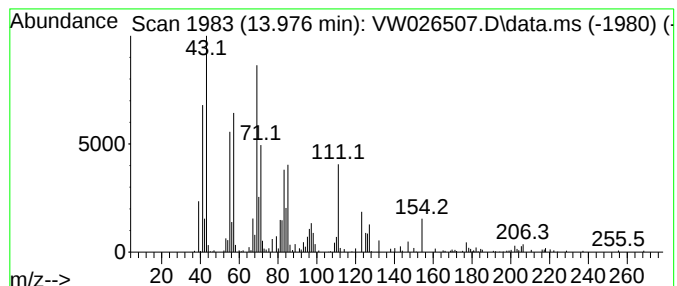
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM062923SMA.M  
Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 2 (DEL) Alkane: Cyclic13.976 Concentration Rank 6

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 13.976 | 9.01 ug/L | 84894 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of 5 | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|------|-------------------------------|-----|---------|-------------|------|
| 1    |      | Cyclohexane, 1,2,4-trimethyl- | 126 | C9H18   | 002234-75-5 | 50   |
| 2    |      | 4-Undecene, (E)-              | 154 | C11H22  | 000693-62-9 | 46   |
| 3    |      | Cyanamide, dibutyl-           | 154 | C9H18N2 | 002050-54-6 | 41   |
| 4    |      | Cyclopentane, hexyl-          | 154 | C11H22  | 004457-00-5 | 38   |
| 5    |      | Cyclohexane, 1,1,2-trimethyl- | 126 | C9H18   | 007094-26-0 | 38   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
Data File : VW026507.D  
Acq On : 01 Jul 2023 06:00  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.61g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

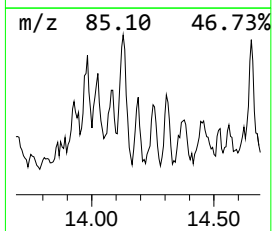
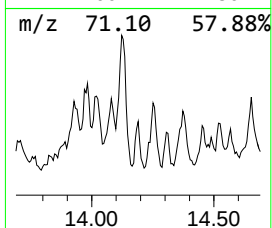
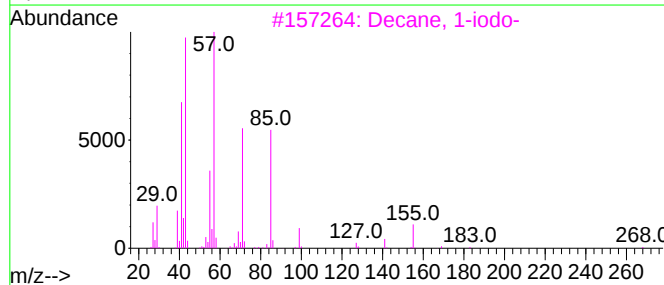
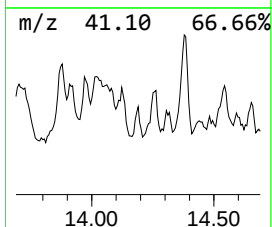
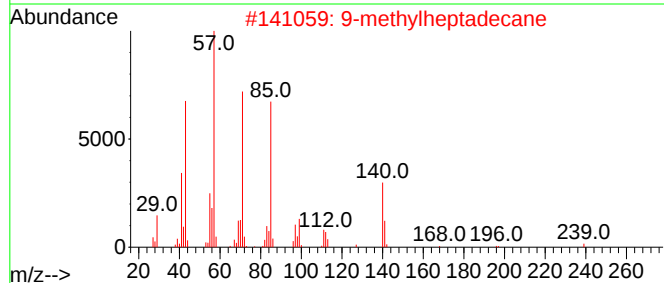
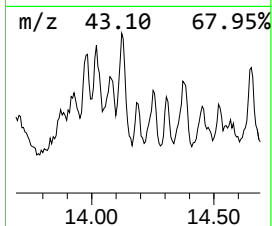
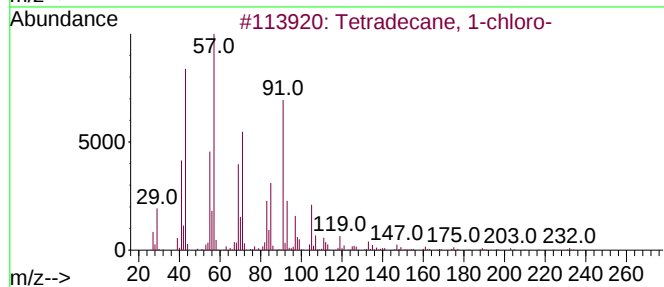
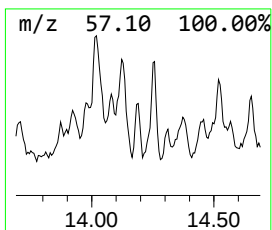
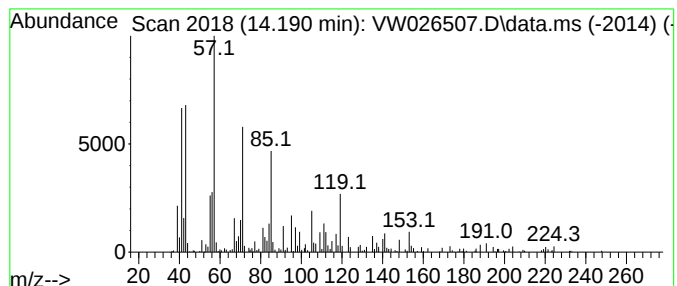
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 3 unknown-02 Concentration Rank 5

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 14.190 | 11.39 ug/L | 107402 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID            | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------|-----|----------|-------------|------|
| 1    |    |   | Tetradecane, 1-chloro-  | 232 | C14H29Cl | 002425-54-9 | 46   |
| 2    |    |   | 9-methylheptadecane     | 254 | C18H38   | 026741-18-4 | 43   |
| 3    |    |   | Decane, 1-iodo-         | 268 | C10H21I  | 002050-77-3 | 43   |
| 4    |    |   | Decane, 2,9-dimethyl-   | 170 | C12H26   | 001002-17-1 | 38   |
| 5    |    |   | Undecane, 5,7-dimethyl- | 184 | C13H28   | 017312-83-3 | 38   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
Data File : VW026507.D  
Acq On : 01 Jul 2023 06:00  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.61g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

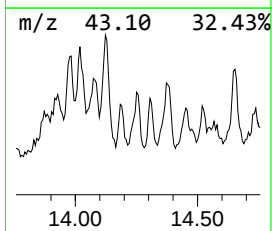
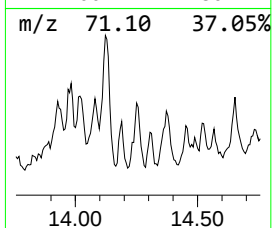
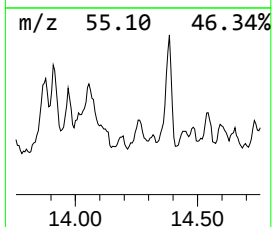
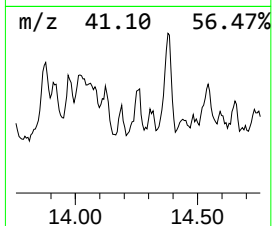
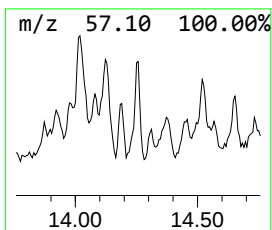
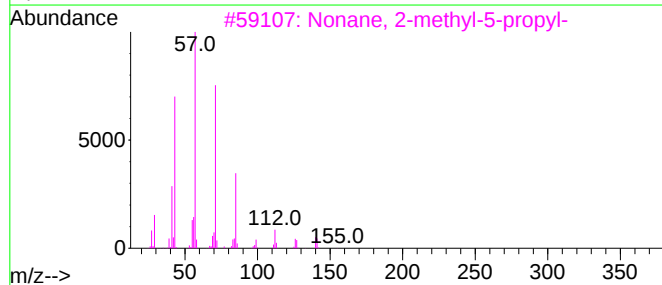
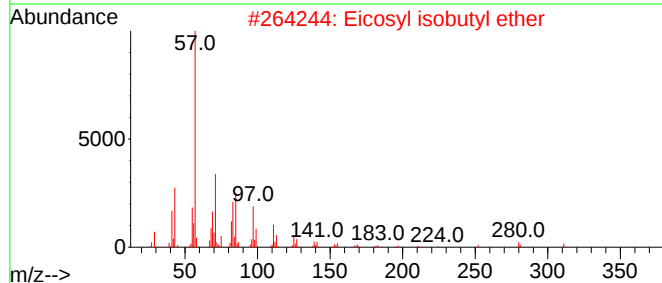
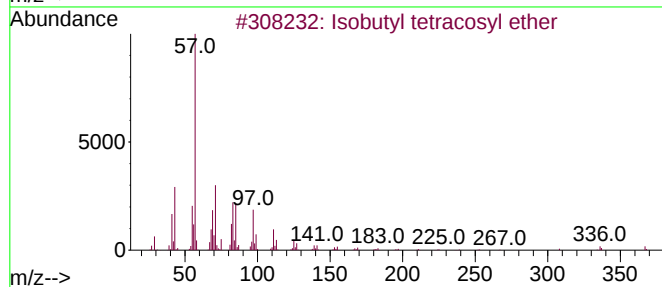
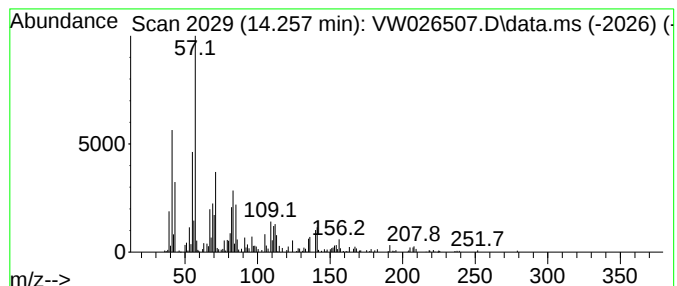
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 4 unknown-03 Concentration Rank 3

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 14.257 | 16.55 ug/L | 156001 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID               | MW  | MolForm | CAS#         | Qual |
|------|----|---|----------------------------|-----|---------|--------------|------|
| 1    |    |   | Isobutyl tetracosyl ether  | 410 | C28H58O | 1000406-33-2 | 47   |
| 2    |    |   | Eicosyl isobutyl ether     | 354 | C24H50O | 1000406-33-0 | 38   |
| 3    |    |   | Nonane, 2-methyl-5-propyl- | 184 | C13H28  | 031081-17-1  | 35   |
| 4    |    |   | Isobutyl octadecyl ether   | 326 | C22H46O | 1000406-32-9 | 35   |
| 5    |    |   | 9-methylheptadecane        | 254 | C18H38  | 026741-18-4  | 27   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
Data File : VW026507.D  
Acq On : 01 Jul 2023 06:00  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.61g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

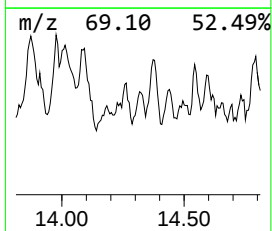
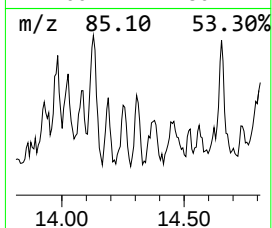
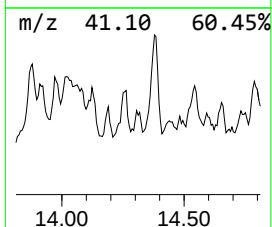
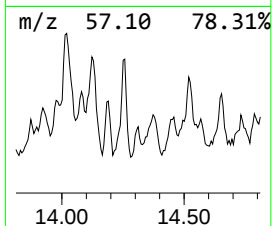
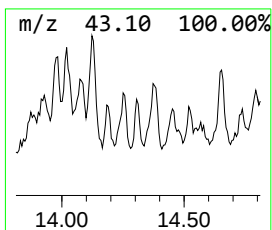
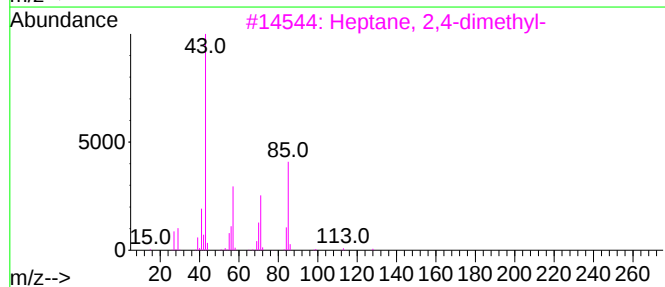
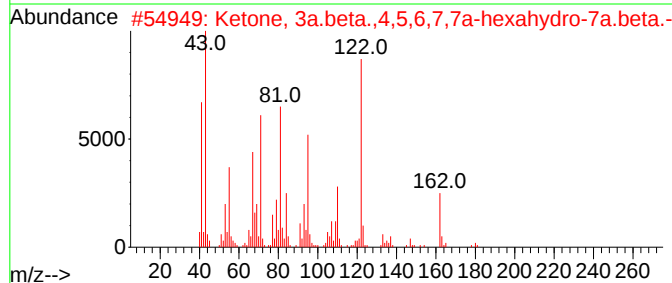
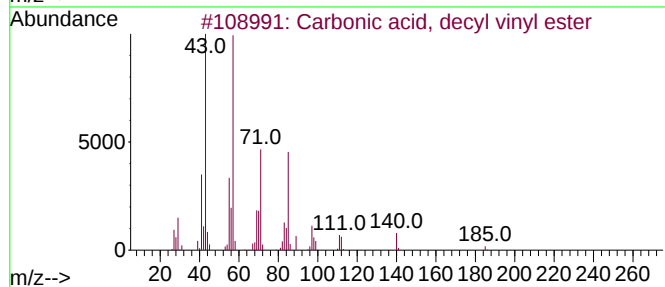
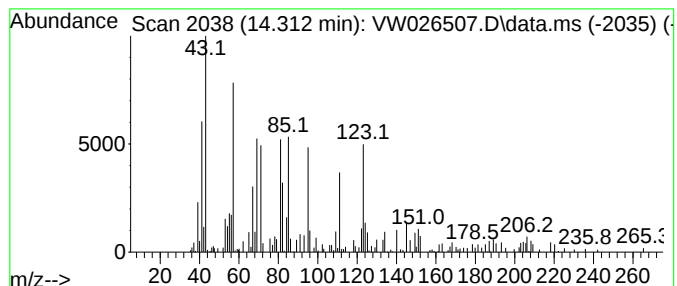
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 5 unknown-04 Concentration Rank 8

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 14.312 | 7.58 ug/L | 71434 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|----------|--------------|------|
| 1    |    |   | Carbonic acid, decyl vinyl ester    | 228 | C13H24O3 | 1000383-25-7 | 27   |
| 2    |    |   | Ketone, 3a.beta.,4,5,6,7,7a-hexa... | 180 | C12H20O  | 017986-97-9  | 27   |
| 3    |    |   | Heptane, 2,4-dimethyl-              | 128 | C9H20    | 002213-23-2  | 22   |
| 4    |    |   | 4-Methyl-5-nonanone                 | 156 | C10H20O  | 035900-26-6  | 22   |
| 5    |    |   | Decane, 4-ethyl-                    | 170 | C12H26   | 001636-44-8  | 22   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
Data File : VW026507.D  
Acq On : 01 Jul 2023 06:00  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.61g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

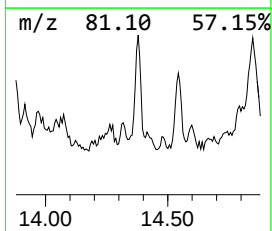
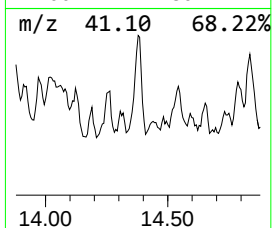
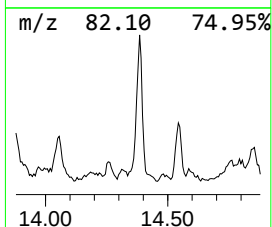
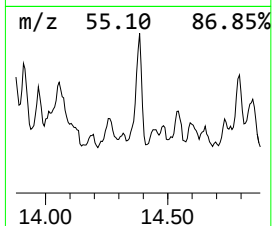
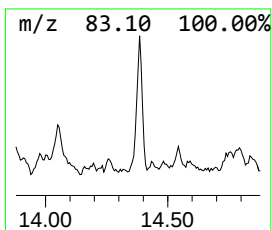
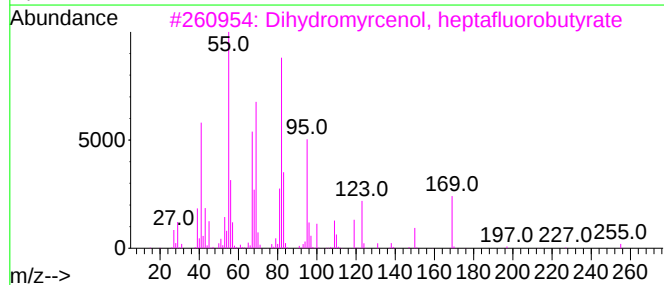
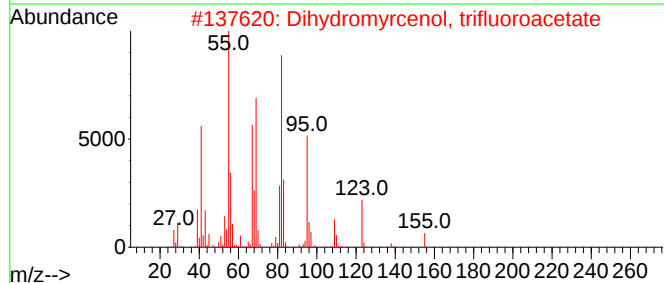
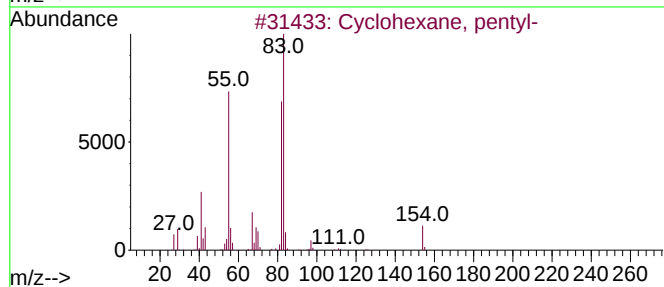
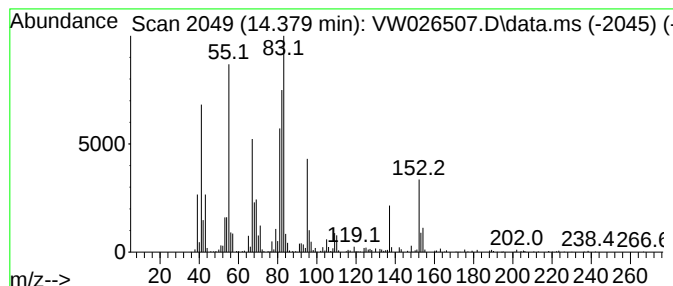
Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM062923SMA.M  
Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 6 (DEL) Alkane: Cyclic14.379 Concentration Rank 2

| R.T.      | EstConc                             | Area   | Relative to ISTD       |            | R.T.         |      |
|-----------|-------------------------------------|--------|------------------------|------------|--------------|------|
| 14.379    | 39.15 ug/L                          | 368989 | 1,4-Dichlorobenzene-d4 |            | 13.556       |      |
| Hit# of 5 | Tentative ID                        |        | MW                     | MolForm    | CAS#         | Qual |
| 1         | Cyclohexane, pentyl-                |        | 154                    | C11H22     | 004292-92-6  | 55   |
| 2         | Dihydromyrcenol, trifluoroacetate   |        | 252                    | C12H19F3O2 | 1000463-72-2 | 52   |
| 3         | Dihydromyrcenol, heptafluorobuty... |        | 352                    | C14H19F7O2 | 1000463-72-0 | 52   |
| 4         | Cyclohexane, 1,1'-(1,4-butanedi...  |        | 222                    | C16H30     | 006165-44-2  | 49   |
| 5         | Cyclohexane, pentyl-                |        | 154                    | C11H22     | 004292-92-6  | 49   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
Data File : VW026507.D  
Acq On : 01 Jul 2023 06:00  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.61g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

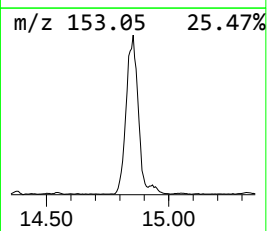
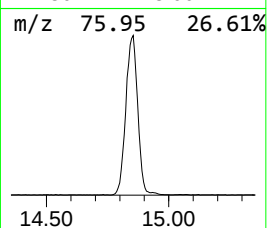
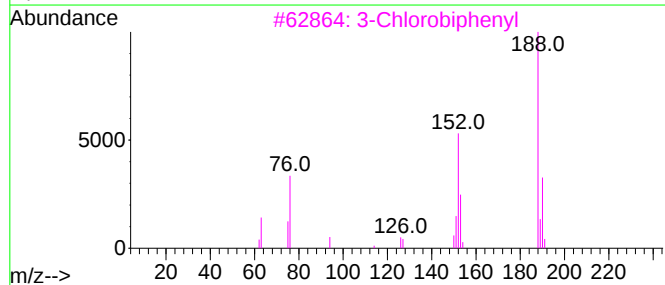
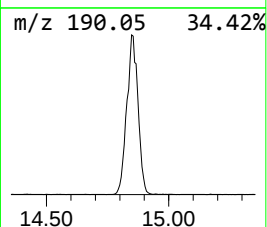
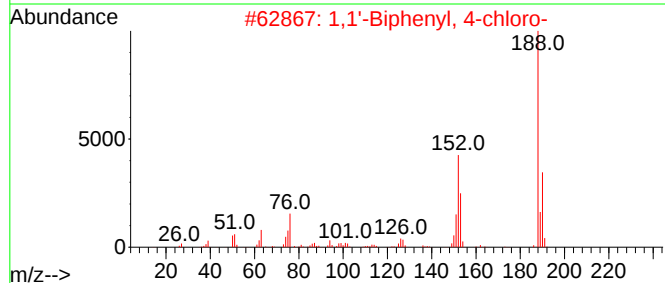
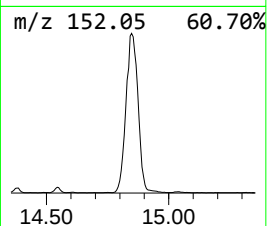
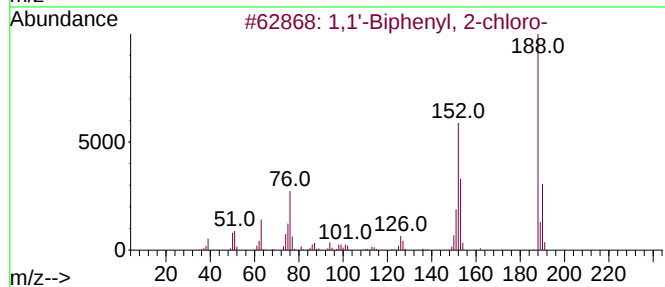
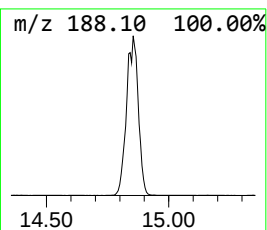
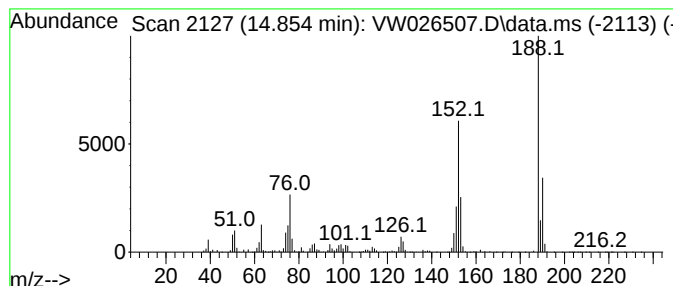
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 7 1,1'-Biphenyl, 2-chloro- Concentration Rank 1

| R.T.   | EstConc     | Area    | Relative to ISTD       | R.T.   |
|--------|-------------|---------|------------------------|--------|
| 14.854 | 752.44 ug/L | 7092670 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of                       | 5 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|--------------------------|---|--------------|-----|---------|-------------|------|
| 1    | 1,1'-Biphenyl, 2-chloro- |   |              | 188 | C12H9Cl | 002051-60-7 | 99   |
| 2    | 1,1'-Biphenyl, 4-chloro- |   |              | 188 | C12H9Cl | 002051-62-9 | 97   |
| 3    | 3-Chlorobiphenyl         |   |              | 188 | C12H9Cl | 002051-61-8 | 96   |
| 4    | 1,1'-Biphenyl, 2-chloro- |   |              | 188 | C12H9Cl | 002051-60-7 | 95   |
| 5    | 1,1'-Biphenyl, 4-chloro- |   |              | 188 | C12H9Cl | 002051-62-9 | 94   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
Data File : VW026507.D  
Acq On : 01 Jul 2023 06:00  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.61g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

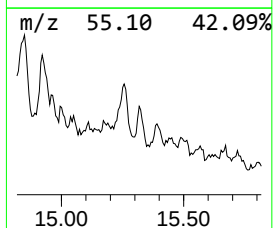
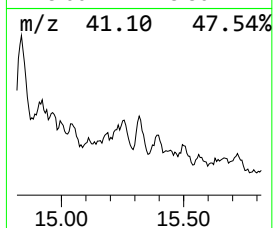
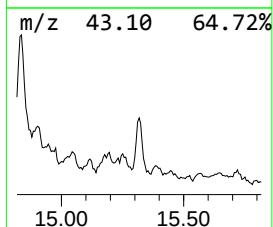
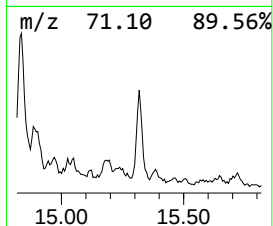
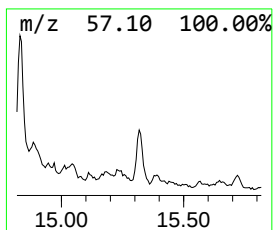
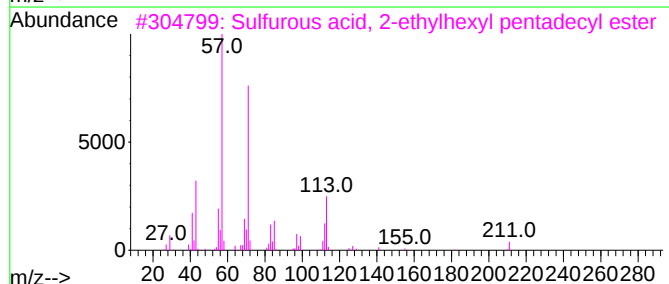
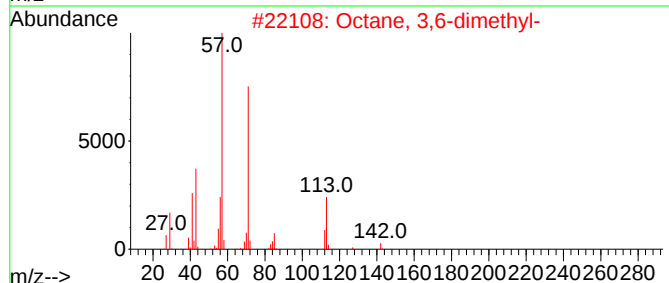
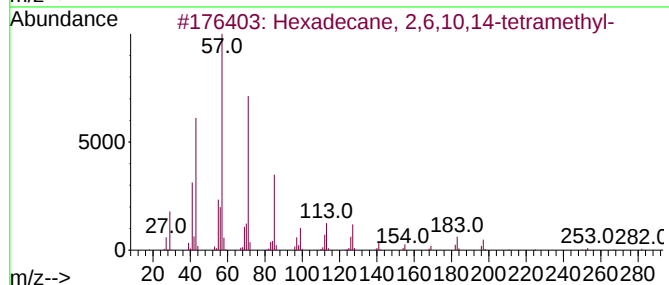
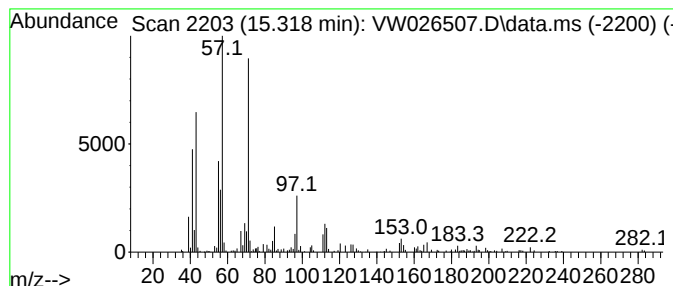
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Quant Title : SFAM01.0

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

\*\*\*\*\*  
Peak Number 8 (DEL) Alkane: Straight-Chai... Concentration Rank 4

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 15.318 | 15.34 ug/L | 144640 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Hexadecane, 2,6,10,14-tetramethyl-  | 282 | C20H42    | 000638-36-8  | 64   |
| 2    |    |   | Octane, 3,6-dimethyl-               | 142 | C10H22    | 015869-94-0  | 59   |
| 3    |    |   | Sulfurous acid, 2-ethylhexyl pen... | 404 | C23H48O3S | 1000309-19-8 | 58   |
| 4    |    |   | 1-Pentanol, 3-methyl-2-propyl-      | 144 | C9H20O    | 054004-40-9  | 53   |
| 5    |    |   | Decane, 5-propyl-                   | 184 | C13H28    | 017312-62-8  | 52   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
Data File : VW026507.D  
Acq On : 01 Jul 2023 06:00  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.61g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM062923SMA.M  
Quant Title : SFAM01.0

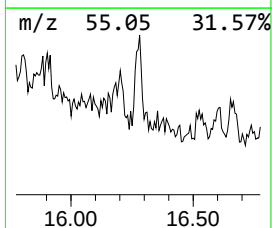
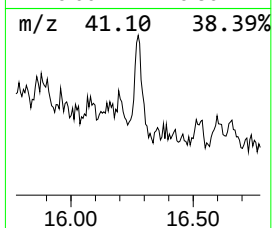
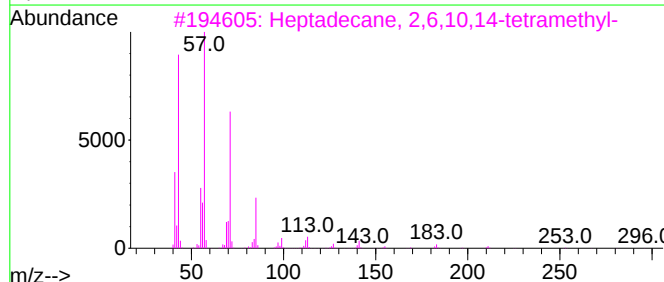
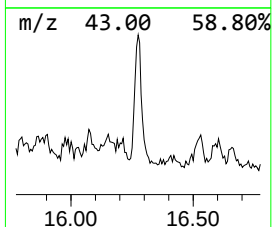
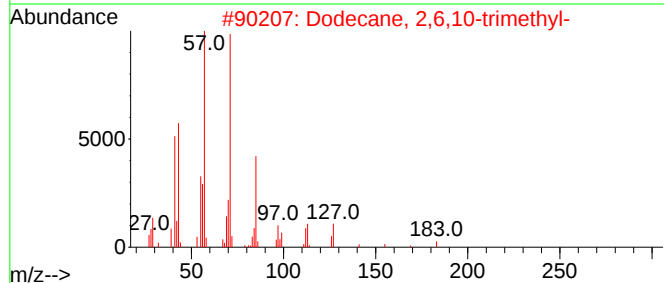
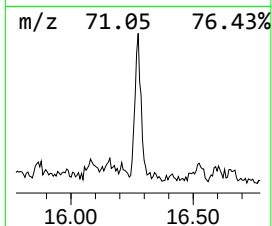
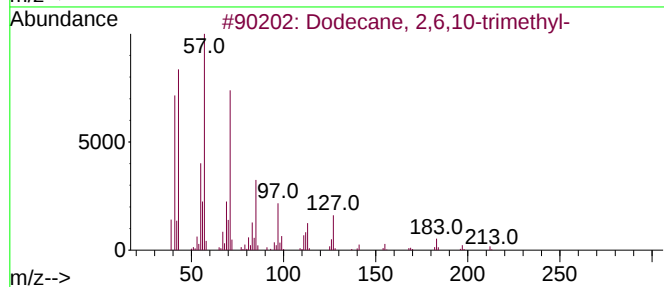
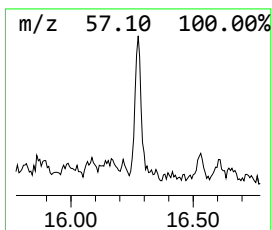
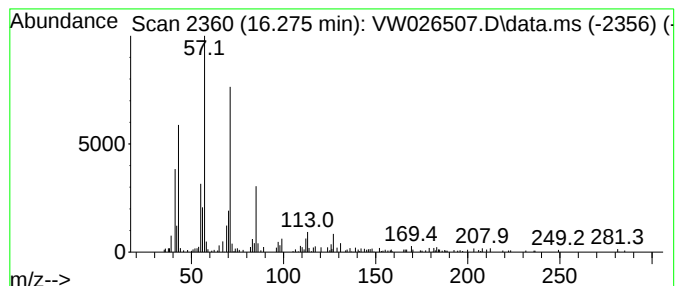
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 (DEL) Alkane: Straight-Chai... Concentration Rank 7

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 16.275 | 8.26 ug/L | 77893 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# | of 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|------|-------------------------------------|-----|---------|-------------|------|
| 1    |      | Dodecane, 2,6,10-trimethyl-         | 212 | C15H32  | 003891-98-3 | 91   |
| 2    |      | Dodecane, 2,6,10-trimethyl-         | 212 | C15H32  | 003891-98-3 | 90   |
| 3    |      | Heptadecane, 2,6,10,14-tetramethyl- | 296 | C21H44  | 018344-37-1 | 86   |
| 4    |      | Decane, 2-methyl-                   | 156 | C11H24  | 006975-98-0 | 80   |
| 5    |      | Decane, 3,6-dimethyl-               | 170 | C12H26  | 017312-53-7 | 68   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW063023\  
Data File : VW026507.D  
Acq On : 01 Jul 2023 06:00  
Operator : SY/MD  
Sample : 03501-05  
Misc : 4.61g/10mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A46W2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM062923SMA.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         | 2.247  | 2.8     | ug/L  | 16399    | 1                     | 8.843  | 148647 | 25.0 |
| (DEL) Alkane: C... | 13.976 | 9.0     | ug/L  | 84894    | 3                     | 13.556 | 235655 | 25.0 |
| unknown-02         | 14.190 | 11.4    | ug/L  | 107402   | 3                     | 13.556 | 235655 | 25.0 |
| unknown-03         | 14.257 | 16.6    | ug/L  | 156001   | 3                     | 13.556 | 235655 | 25.0 |
| unknown-04         | 14.312 | 7.6     | ug/L  | 71434    | 3                     | 13.556 | 235655 | 25.0 |
| (DEL) Alkane: C... | 14.379 | 39.1    | ug/L  | 368989   | 3                     | 13.556 | 235655 | 25.0 |
| 1,1'-Biphenyl, ... | 14.854 | 752.4   | ug/L  | 7092670  | 3                     | 13.556 | 235655 | 25.0 |
| (DEL) Alkane: S... | 15.318 | 15.3    | ug/L  | 144640   | 3                     | 13.556 | 235655 | 25.0 |
| (DEL) Alkane: S... | 16.275 | 8.3     | ug/L  | 77893    | 3                     | 13.556 | 235655 | 25.0 |