LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG082016\
Data File : BG023807.D
Acq On : 20 Aug 2016 8:25
Operator : UM/SJ
Sample : H4496-04
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** JHPW9

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG081816.M
Title : SVOA CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 3.279 | 73 | 75 | 78 | rBV3 | 6449 | 5740 | 0.19% | 0.016% |
| 2 | 3.408 | 95 | 97 | 100 | rVB2 | 4934 | 4365 | 0.15% | 0.012% |
| 3 | 3.461 | 101 | 106 | 113 | rVB4 | 25953 | 51557 | 1.72% | 0.141% |
| 4 | 3.526 | 115 | 117 | 121 | rVB4 | 3706 | 4290 | 0.14% | 0.012% |
| 5 | 3.843 | 168 | 171 | 175 | rVB3 | 5726 | 7774 | 0.26% | 0.021% |
| 6 | 4.225 | 232 | 236 | 242 | rBV4 | 8044 | 14848 | 0.49% | 0.041% |
| 7 | 4.431 | 268 | 271 | 272 | rVB2 | 5245 | 4328 | 0.14% | 0.012% |
| 8 | 4.595 | 295 | 299 | 305 | rVB4 | 22379 | 34864 | 1.16% | 0.096% |
| 9 | 5.459 | 444 | 446 | 448 | rBV3 | 6144 | 5622 | 0.19% | 0.015% |
| 10 | 5.688 | 481 | 485 | 486 | rBV3 | 3201 | 4195 | 0.14% | 0.012% |
| 11 | 5.940 | 526 | 528 | 533 | rVB4 | 3467 | 4587 | 0.15% | 0.013% |
| 12 | 6.017 | 537 | 541 | 542 | rBV3 | 4188 | 5670 | 0.19% | 0.016% |
| 13 | 6.146 | 558 | 563 | 565 | rBV4 | 6104 | 6054 | 0.20% | 0.017% |
| 14 | 6.281 | 581 | 586 | 589 | rBV5 | 5219 | 8228 | 0.27% | 0.023% |
| 15 | 6.381 | 599 | 603 | 606 | rVB5 | 3163 | 4244 | 0.14% | 0.012% |
| 16 | 6.528 | 623 | 628 | 633 | rBV5 | 10654 | 17661 | 0.59% | 0.048% |
| 17 | 6.851 | 681 | 683 | 687 | rBV | 3812 | 4349 | 0.14% | 0.012% |
| 18 | 7.115 | 724 | 728 | 733 | rVB6 | 3063 | 4836 | 0.16% | 0.013% |
| 19 | 7.250 | 744 | 751 | 762 | rBV | 545840 | 1011440 | 33.66% | 2.773% |
| 20 | 7.409 | 771 | 778 | 786 | rBV | 418008 | 703892 | 23.42% | 1.930% |
| 21 | 7.620 | 807 | 814 | 824 | rBV | 526255 | 914837 | 30.44% | 2.508% |
| 22 | 7.820 | 845 | 848 | 851 | rBV3 | 3016 | 4996 | 0.17% | 0.014% |
| 23 | 8.090 | 885 | 894 | 902 | rBV | 455621 | 798547 | 26.57% | 2.189% |
| 24 | 8.190 | 906 | 911 | 912 | rBV3 | 4661 | 5346 | 0.18% | 0.015% |
| 25 | 8.343 | 934 | 937 | 938 | rBV3 | 5083 | 4400 | 0.15% | 0.012% |
| 26 | 8.807 | 1010 | 1016 | 1026 | rBV | 607760 | 1104906 | 36.77% | 3.029% |
| 27 | 9.271 | 1087 | 1095 | 1107 | rBV | 492460 | 926169 | 30.82% | 2.539% |
| 28 | 9.400 | 1110 | 1117 | 1118 | rBV6 | 8763 | 17848 | 0.59% | 0.049% |
| 29 | 9.641 | 1156 | 1158 | 1165 | rVB3 | 9961 | 13368 | 0.44% | 0.037% |
| 30 | 9.999 | 1211 | 1219 | 1232 | rBV | 449694 | 824023 | 27.42% | 2.259% |
| 31 | 10.264 | 1259 | 1264 | 1266 | rBV5 | 4181 | 6013 | 0.20% | 0.016% |
| 32 | 10.552 | 1306 | 1313 | 1325 | rBV | 609514 | 1174858 | 39.09% | 3.221% |
| 33 | 10.775 | 1350 | 1351 | 1355 | rBV4 | 4365 | 5488 | 0.18% | 0.015% |
| 34 | 10.869 | 1365 | 1367 | 1369 | rBV2 | 5202 | 4500 | 0.15% | 0.012% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG082016\
Data File : BG023807.D
Acq On : 20 Aug 2016 8:25
Operator : UM/SJ
Sample : H4496-04
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** JHPW9

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG081816.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 10.928 | 1370 | 1377 | 1385 | rVV | 604590 | 1109472 | 36.92% | 3.042% |
| 36 | 11.069 | 1392 | 1401 | 1414 | rBV | 481564 | 919456 | 30.59% | 2.521% |
| 37 | 11.386 | 1452 | 1455 | 1456 | rBV2 | 4852 | 4055 | 0.13% | 0.011% |
| 38 | 11.650 | 1497 | 1500 | 1501 | rBV | 4482 | 4455 | 0.15% | 0.012% |
| 39 | 11.744 | 1511 | 1516 | 1517 | rBV5 | 8488 | 11578 | 0.39% | 0.032% |
| 40 | 12.155 | 1583 | 1586 | 1589 | rVB4 | 3709 | 5640 | 0.19% | 0.015% |
| 41 | 12.326 | 1612 | 1615 | 1616 | rBV2 | 5325 | 4053 | 0.13% | 0.011% |
| 42 | 12.414 | 1626 | 1630 | 1632 | rBV3 | 6203 | 7630 | 0.25% | 0.021% |
| 43 | 12.525 | 1643 | 1649 | 1653 | rVV5 | 12488 | 25716 | 0.86% | 0.071% |
| 44 | 12.561 | 1653 | 1655 | 1658 | rVB4 | 4789 | 4889 | 0.16% | 0.013% |
| 45 | 12.749 | 1685 | 1687 | 1690 | rVB4 | 4220 | 4057 | 0.13% | 0.011% |
| 46 | 12.931 | 1715 | 1718 | 1719 | rBV3 | 3504 | 4070 | 0.14% | 0.011% |
| 47 | 13.054 | 1736 | 1739 | 1742 | rBV5 | 4415 | 5536 | 0.18% | 0.015% |
| 48 | 13.113 | 1745 | 1749 | 1750 | rBV4 | 8147 | 8572 | 0.29% | 0.024% |
| 49 | 13.272 | 1773 | 1776 | 1779 | rVB3 | 4500 | 4698 | 0.16% | 0.013% |
| 50 | 13.354 | 1786 | 1790 | 1796 | rBV4 | 10554 | 16135 | 0.54% | 0.044% |
| 51 | 13.559 | 1820 | 1825 | 1829 | rBV8 | 9243 | 16622 | 0.55% | 0.046% |
| 52 | 13.636 | 1834 | 1838 | 1844 | rVB6 | 14184 | 20409 | 0.68% | 0.056% |
| 53 | 13.700 | 1848 | 1849 | 1853 | rBV4 | 4689 | 6070 | 0.20% | 0.017% |
| 54 | 13.953 | 1890 | 1892 | 1894 | rBV3 | 4915 | 4789 | 0.16% | 0.013% |
| 55 | 14.164 | 1921 | 1928 | 1932 | rBV | 1123392 | 1713044 | 57.00% | 4.697% |
| 56 | 14.211 | 1932 | 1936 | 1943 | rVB | 750890 | 1065883 | 35.47% | 2.922% |
| 57 | 14.458 | 1971 | 1978 | 1985 | rBV | 1196680 | 1951100 | 64.92% | 5.349% |
| 58 | 14.634 | 2004 | 2008 | 2012 | rVB | 40195 | 45684 | 1.52% | 0.125% |
| 59 | 14.769 | 2024 | 2031 | 2041 | rVB2 | 941532 | 1525865 | 50.77% | 4.184% |
| 60 | 14.946 | 2060 | 2061 | 2063 | rBV2 | 6332 | 5402 | 0.18% | 0.015% |
| 61 | 14.993 | 2063 | 2069 | 2080 | rBV | 347476 | 771026 | 25.66% | 2.114% |
| 62 | 15.251 | 2109 | 2113 | 2117 | rBV7 | 15271 | 23087 | 0.77% | 0.063% |
| 63 | 15.398 | 2136 | 2138 | 2142 | rBV4 | 13347 | 15700 | 0.52% | 0.043% |
| 64 | 15.586 | 2166 | 2170 | 2177 | rVB2 | 75243 | 99845 | 3.32% | 0.274% |
| 65 | 15.762 | 2193 | 2200 | 2207 | rBV | 1689603 | 2499747 | 83.18% | 6.854% |
| 66 | 15.891 | 2217 | 2222 | 2230 | rBV | 480829 | 762995 | 25.39% | 2.092% |
| 67 | 15.997 | 2237 | 2240 | 2248 | rVB7 | 37924 | 69718 | 2.32% | 0.191% |
| 68 | 16.215 | 2275 | 2277 | 2281 | rVB5 | 17791 | 18910 | 0.63% | 0.052% |
| 69 | 16.455 | 2314 | 2318 | 2327 | rVB | 84296 | 161907 | 5.39% | 0.444% |
| 70 | 17.254 | 2450 | 2454 | 2459 | rBV4 | 49248 | 80983 | 2.69% | 0.222% |
| 71 | 17.530 | 2495 | 2501 | 2511 | rBV2 | 1208713 | 1780939 | 59.26% | 4.883% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG082016\
Data File : BG023807.D
Acq On : 20 Aug 2016 8:25
Operator : UM/SJ
Sample : H4496-04
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** JHPW9

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG081816.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 17.630 | 2512 | 2518 | 2525 | rVB2 | 1683724 | 2590756 | 86.21% | 7.103% |
| 73 | 18.341 | 2636 | 2639 | 2645 | rBV6 | 53671 | 77839 | 2.59% | 0.213% |
| 74 | 18.400 | 2645 | 2649 | 2656 | rVV2 | 283726 | 389476 | 12.96% | 1.068% |
| 75 | 19.551 | 2843 | 2845 | 2857 | rVB5 | 109397 | 204529 | 6.81% | 0.561% |
| 76 | 19.669 | 2862 | 2865 | 2873 | rVB6 | 97120 | 130302 | 4.34% | 0.357% |
| 77 | 19.921 | 2902 | 2908 | 2914 | rBV | 1996989 | 3005275 | 100.00% | 8.240% |
| 78 | 20.168 | 2946 | 2950 | 2957 | rVB | 140278 | 210520 | 7.01% | 0.577% |
| 79 | 21.443 | 3163 | 3167 | 3179 | rVB2 | 250286 | 497653 | 16.56% | 1.364% |
| 80 | 21.842 | 3229 | 3235 | 3243 | rVB | 1171602 | 2021261 | 67.26% | 5.542% |
| 81 | 22.641 | 3367 | 3371 | 3374 | rBV2 | 143749 | 210021 | 6.99% | 0.576% |
| 82 | 24.991 | 3762 | 3771 | 3782 | rVB2 | 909977 | 2654006 | 88.31% | 7.277% |
| 83 | 25.226 | 3803 | 3811 | 3822 | rVB | 633233 | 1987774 | 66.14% | 5.450% |

Sum of corrected areas: 36472992

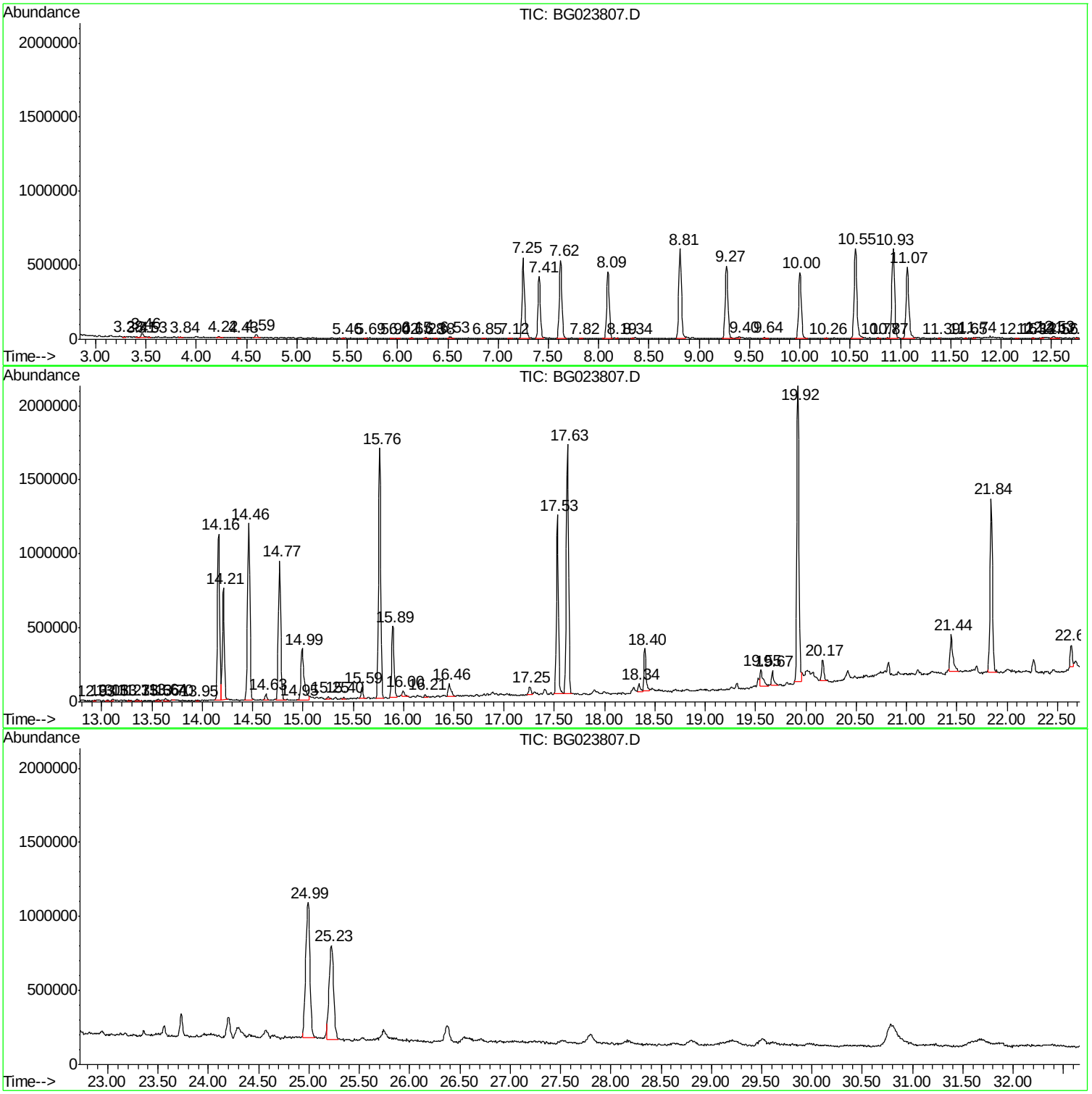
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG082016\
Data File : BG023807.D
Acq On : 20 Aug 2016 8:25
Operator : UM/SJ
Sample : H4496-04
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** JHPW9

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG081816.M
Quant Title : SVOA CALIBRATION

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



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG082016\
Data File : BG023807.D
Acq On : 20 Aug 2016 8:25
Operator : UM/SJ
Sample : H4496-04
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** JHPW9

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG081816.M
Quant Title : SVOA CALIBRATION

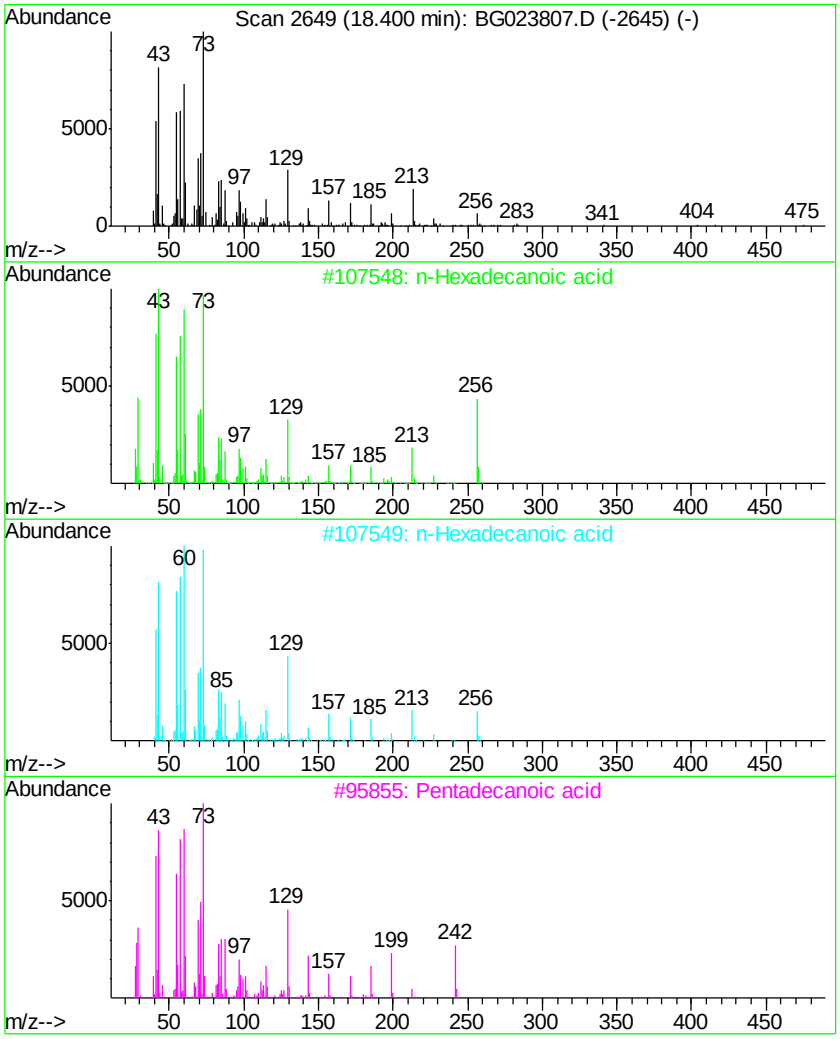
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

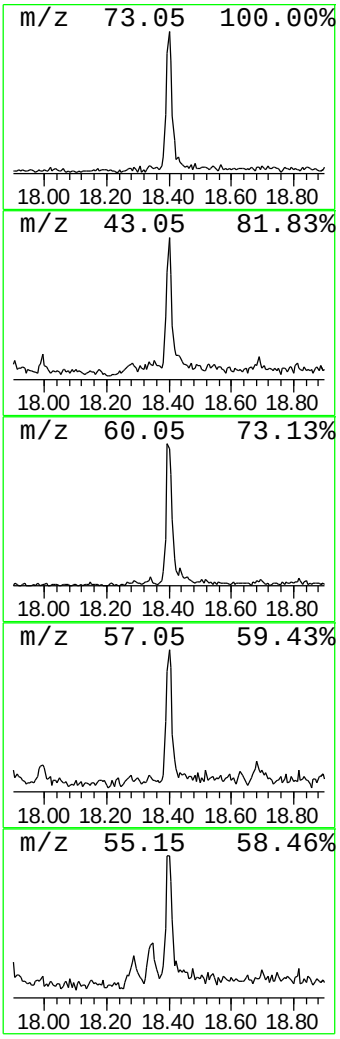
**********

Peak Number 1 n-Hexadecanoic acid Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.40 | 4.37 ng/ul | 389476 | Phenanthrene-d10 | 17.53 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 98 |
| 2 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 96 |
| 3 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 95 |
| 4 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 93 |
| 5 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 91 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG082016\
Data File : BG023807.D
Acq On : 20 Aug 2016 8:25
Operator : UM/SJ
Sample : H4496-04
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** JHPW9

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG081816.M
Quant Title : SVOA CALIBRATION

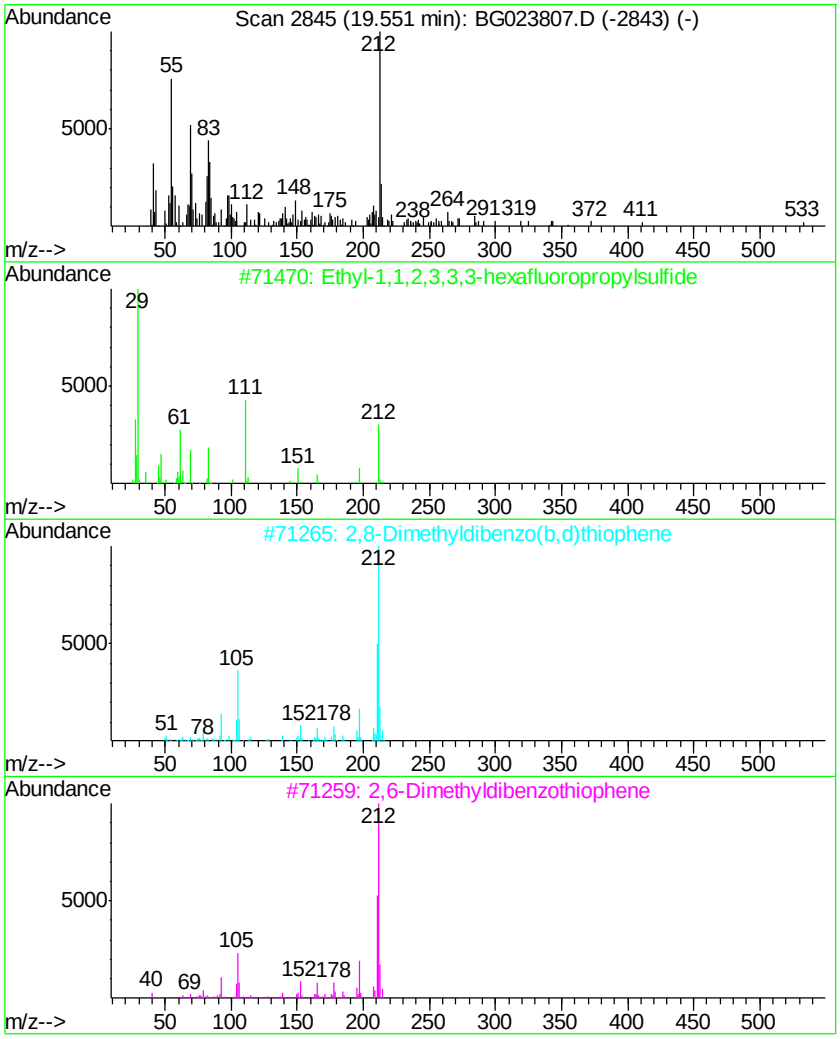
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

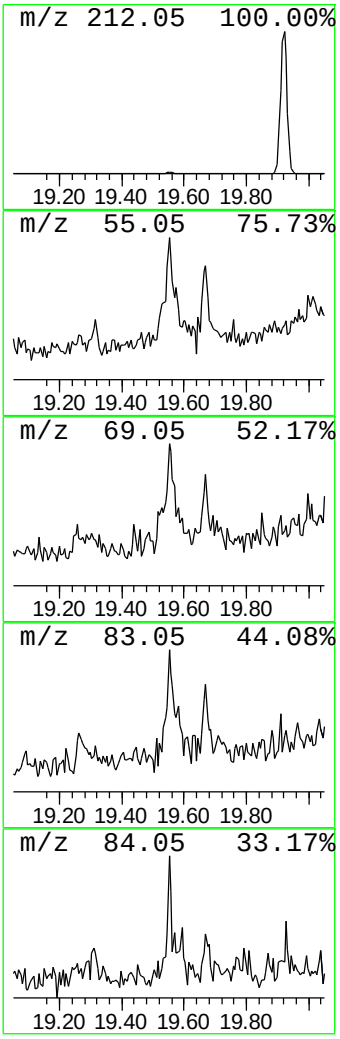
**********

Peak Number 2 unknown-01 Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.55 | 2.30 ng/ul | 204529 | Phenanthrene-d10 | 17.53 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Ethyl-1,1,2,3,3,3-hexafluoroprop... | 212 | C5H6F6S | 000380-35-8 | 47 |
| 2 | 2,8-Dimethyldibenzo(b,d)thiophene | 212 | C14H12S | 001207-15-4 | 46 |
| 3 | 2,6-Dimethyldibenzothiophene | 212 | C14H12S | 089816-75-1 | 46 |
| 4 | Dibenzothiophene, 4,6-dimethyl- | 212 | C14H12S | 001207-12-1 | 46 |
| 5 | Naphtho[2,3-b]thiophene, 4,9-dim... | 212 | C14H12S | 016587-34-1 | 43 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG082016\
Data File : BG023807.D
Acq On : 20 Aug 2016 8:25
Operator : UM/SJ
Sample : H4496-04
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** JHPW9

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG081816.M
Quant Title : SVOA CALIBRATION

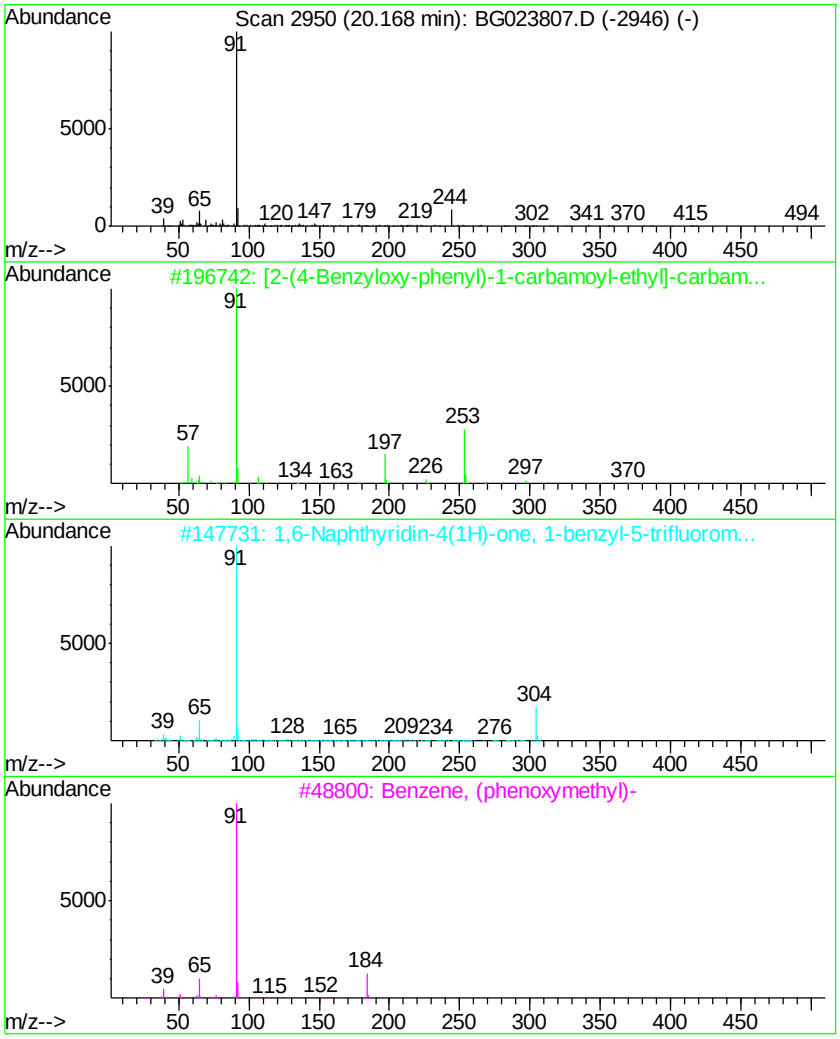
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

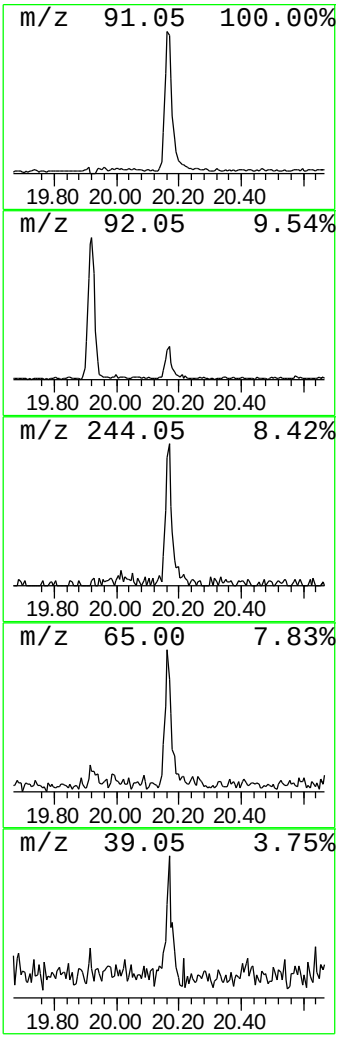
**********

Peak Number 3 unknown-02 Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.17 | 2.08 ng/ul | 210520 | Chrysene-d12 | 21.84 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | [2-(4-Benzyloxy-phenyl)-1-carbam... | 370 | C21H26N2O4 | 1000285-97-0 | 47 |
| 2 | 1,6-Naphthyridin-4(1H)-one, 1-be... | 304 | C16H11F3N2O | 161014-24-0 | 47 |
| 3 | Benzene, (phenoxymethyl)- | 184 | C13H12O | 000946-80-5 | 43 |
| 4 | Pyridine, 4-(2-phenylethyl)- | 183 | C13H13N | 002116-64-5 | 43 |
| 5 | Benzonitrile, 3-benzyloxy- | 209 | C14H11NO | 061147-43-1 | 43 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG082016\
Data File : BG023807.D
Acq On : 20 Aug 2016 8:25
Operator : UM/SJ
Sample : H4496-04
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** JHPW9

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG081816.M
Quant Title : SVOA CALIBRATION

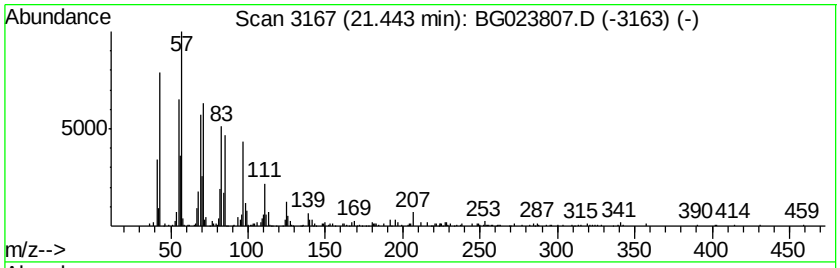
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

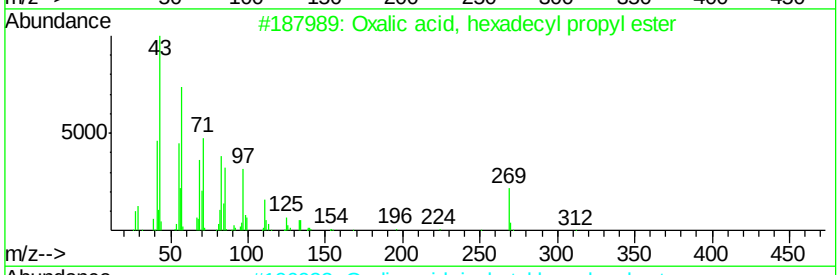
**********

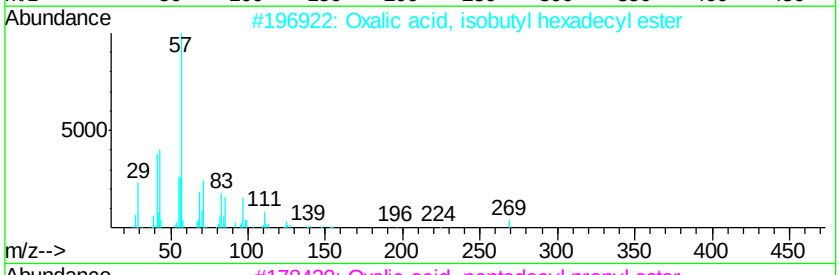
Peak Number 4 Oxalic acid, hexadecyl prop... Concentration Rank 1

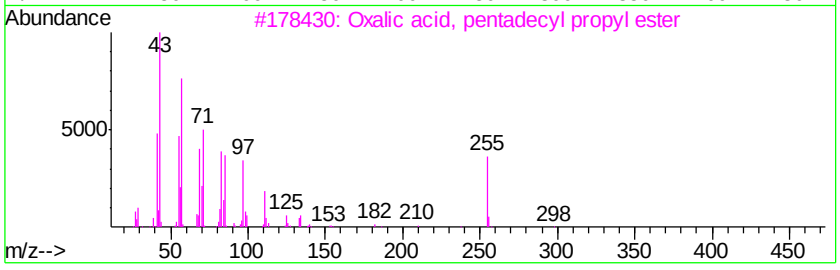
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.44 | 4.92 ng/ul | 497653 | Chrysene-d12 | 21.84 |

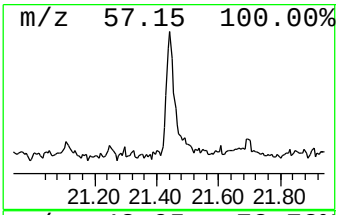
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Oxalic acid, hexadecyl propyl ester | 356 | C21H40O4 | 1000309-26-9 | 91 |
| 2 | Oxalic acid, isobutyl hexadecyl ... | 370 | C22H42O4 | 1000309-38-1 | 91 |
| 3 | Oxalic acid, pentadecyl propyl e... | 342 | C20H38O4 | 1000309-26-8 | 91 |
| 4 | Octadecane, 1-(ethenyloxy)- | 296 | C20H40O | 000930-02-9 | 89 |
| 5 | Docosyl pentafluoropropionate | 472 | C25H45F5O2 | 1000351-80-9 | 87 |

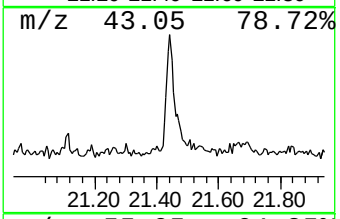


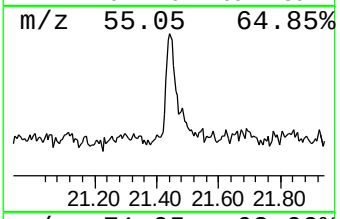



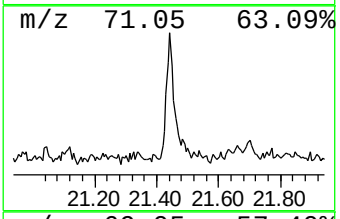



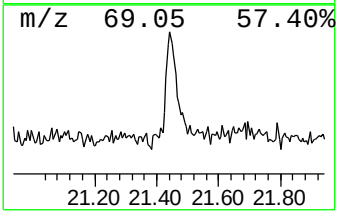



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG082016\
Data File : BG023807.D
Acq On : 20 Aug 2016 8:25
Operator : UM/SJ
Sample : H4496-04
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** JHPW9

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG081816.M
Quant Title : SVOA CALIBRATION

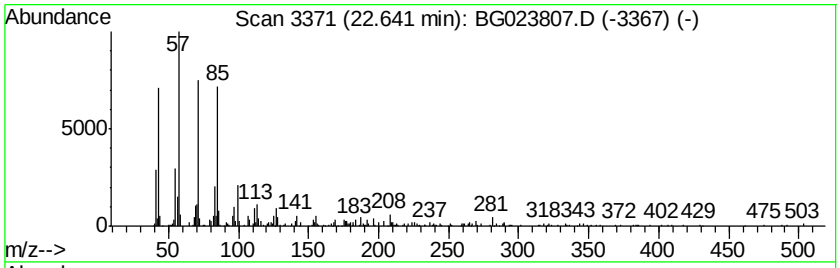
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

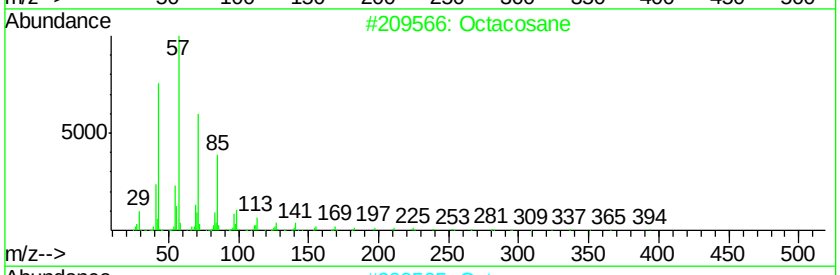
**********

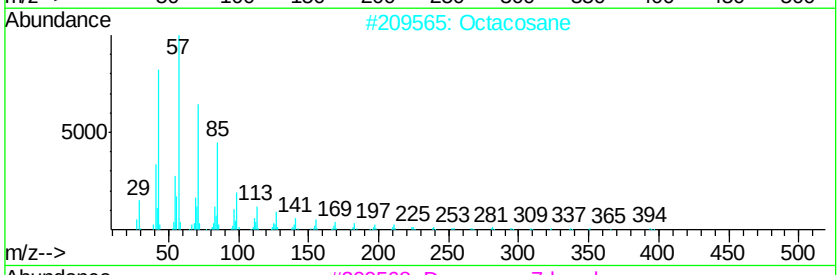
Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 5

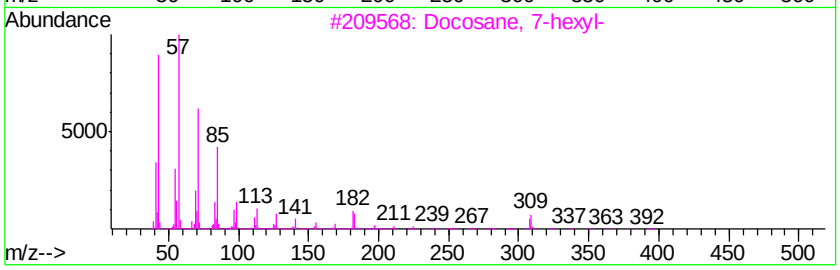
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 22.64 | 2.08 ng/ul | 210021 | Chrysene-d12 | 21.84 |

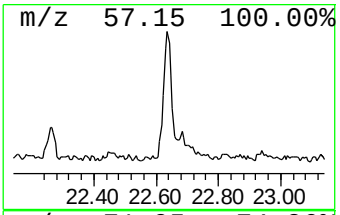
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octacosane | 394 | C28H58 | 000630-02-4 | 90 |
| 2 | Octacosane | 394 | C28H58 | 000630-02-4 | 89 |
| 3 | Docosane, 7-hexyl- | 394 | C28H58 | 055373-86-9 | 80 |
| 4 | Heptadecane | 240 | C17H36 | 000629-78-7 | 80 |
| 5 | 2-methyloctacosane | 408 | C29H60 | 1000376-72-8 | 74 |

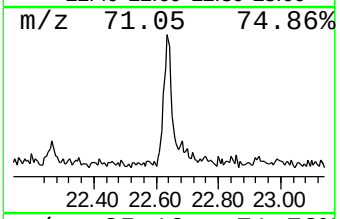


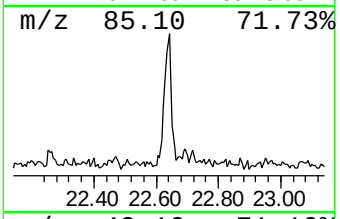



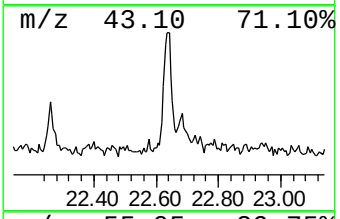



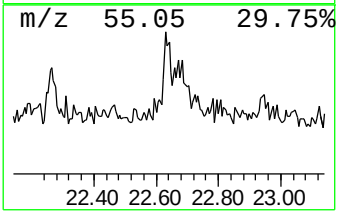



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG082016\
Data File : BG023807.D
Acq On : 20 Aug 2016 8:25
Operator : UM/SJ
Sample : H4496-04
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** JHPW9

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG081816.M
Quant Title : SVOA CALIBRATION

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

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| n-Hexadecanoic acid | 18.40 | 4.4 | ng/ul | 389476 | 4 | 17.53 | 1780940 | 20.0 |
| unknown-01 | 19.55 | 2.3 | ng/ul | 204529 | 4 | 17.53 | 1780940 | 20.0 |
| unknown-02 | 20.17 | 2.1 | ng/ul | 210520 | 5 | 21.84 | 2021260 | 20.0 |
| Oxalic acid, hexa... | 21.44 | 4.9 | ng/ul | 497653 | 5 | 21.84 | 2021260 | 20.0 |
| (DEL) Alkane: Str... | 22.64 | 2.1 | ng/ul | 210021 | 5 | 21.84 | 2021260 | 20.0 |