LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM030518\
Data File : BM014470.D
Acq On : 05 Mar 2018 13:23
Operator : SJ/JU
Sample : J1678-22
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE5Z5

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 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_M\METHODS\SOM-EPA-BM021418.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 | 4.663 | 282 | 285 | 288 | rBV | 38638 | 42221 | 1.48% | 0.110% |
| 2 | 6.728 | 630 | 636 | 653 | rVB | 347657 | 718779 | 25.20% | 1.866% |
| 3 | 6.863 | 653 | 659 | 670 | rBV | 343196 | 538898 | 18.89% | 1.399% |
| 4 | 7.057 | 686 | 692 | 700 | rBV | 475980 | 772771 | 27.09% | 2.006% |
| 5 | 7.510 | 763 | 769 | 777 | rBV | 340945 | 556933 | 19.53% | 1.446% |
| 6 | 7.798 | 813 | 818 | 824 | rVB6 | 14206 | 29854 | 1.05% | 0.078% |
| 7 | 8.251 | 889 | 895 | 908 | rBV | 373972 | 750643 | 26.32% | 1.949% |
| 8 | 8.675 | 960 | 967 | 977 | rBV | 501665 | 879803 | 30.84% | 2.284% |
| 9 | 9.392 | 1082 | 1089 | 1106 | rBV | 446338 | 846885 | 29.69% | 2.199% |
| 10 | 9.945 | 1176 | 1183 | 1203 | rBV | 402632 | 1062191 | 37.24% | 2.758% |
| 11 | 10.286 | 1233 | 1241 | 1247 | rBV | 453780 | 804304 | 28.20% | 2.088% |
| 12 | 10.451 | 1263 | 1269 | 1283 | rBV | 240352 | 616445 | 21.61% | 1.600% |
| 13 | 12.980 | 1693 | 1699 | 1704 | rBV5 | 26630 | 42451 | 1.49% | 0.110% |
| 14 | 13.145 | 1721 | 1727 | 1733 | rBV9 | 12839 | 29955 | 1.05% | 0.078% |
| 15 | 13.469 | 1777 | 1782 | 1788 | rBV4 | 78326 | 126768 | 4.44% | 0.329% |
| 16 | 13.598 | 1798 | 1804 | 1809 | rBV | 1158251 | 1653983 | 57.99% | 4.294% |
| 17 | 13.645 | 1809 | 1812 | 1824 | rVB | 216292 | 339476 | 11.90% | 0.881% |
| 18 | 13.863 | 1842 | 1849 | 1860 | rBV | 1230497 | 1983380 | 69.53% | 5.149% |
| 19 | 14.069 | 1880 | 1884 | 1889 | rBV2 | 62090 | 86358 | 3.03% | 0.224% |
| 20 | 14.174 | 1895 | 1902 | 1909 | rBV2 | 655770 | 1053502 | 36.93% | 2.735% |
| 21 | 14.239 | 1909 | 1913 | 1919 | rVB5 | 22253 | 42519 | 1.49% | 0.110% |
| 22 | 14.492 | 1949 | 1956 | 1969 | rBV2 | 174543 | 530696 | 18.61% | 1.378% |
| 23 | 14.621 | 1975 | 1978 | 1984 | rVV8 | 20890 | 36748 | 1.29% | 0.095% |
| 24 | 15.033 | 2041 | 2048 | 2053 | rVB2 | 75717 | 111754 | 3.92% | 0.290% |
| 25 | 15.180 | 2066 | 2073 | 2080 | rBV | 1557103 | 2277707 | 79.85% | 5.913% |
| 26 | 15.239 | 2081 | 2083 | 2088 | rVB4 | 22772 | 37862 | 1.33% | 0.098% |
| 27 | 15.357 | 2097 | 2103 | 2111 | rBV | 389582 | 667672 | 23.41% | 1.733% |
| 28 | 15.898 | 2190 | 2195 | 2204 | rVB | 68094 | 118645 | 4.16% | 0.308% |
| 29 | 16.363 | 2270 | 2274 | 2276 | rBV5 | 18651 | 32543 | 1.14% | 0.084% |
| 30 | 16.692 | 2325 | 2330 | 2335 | rBV7 | 34672 | 62002 | 2.17% | 0.161% |
| 31 | 16.851 | 2349 | 2357 | 2364 | rBV6 | 53862 | 98376 | 3.45% | 0.255% |
| 32 | 16.939 | 2364 | 2372 | 2376 | rVV2 | 879042 | 1335146 | 46.81% | 3.466% |
| 33 | 16.980 | 2376 | 2379 | 2384 | rVV | 430974 | 628960 | 22.05% | 1.633% |
| 34 | 17.039 | 2384 | 2389 | 2400 | rVB2 | 1636735 | 2470054 | 86.60% | 6.413% |

LSC Area Percent Report

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Operator : SJ/JU
Sample : J1678-22
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE5Z5

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 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_M\METHODS\SOM-EPA-BM021418.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 17.333 | 2434 | 2439 | 2441 | rBV6 | 39778 | 60767 | 2.13% | 0.158% |
| 36 | 17.368 | 2442 | 2445 | 2453 | rVB3 | 46045 | 75563 | 2.65% | 0.196% |
| 37 | 17.662 | 2490 | 2495 | 2499 | rBV8 | 15578 | 30214 | 1.06% | 0.078% |
| 38 | 17.727 | 2499 | 2506 | 2511 | rBV9 | 57661 | 107715 | 3.78% | 0.280% |
| 39 | 17.821 | 2518 | 2522 | 2523 | rBV | 53031 | 68343 | 2.40% | 0.177% |
| 40 | 17.851 | 2523 | 2527 | 2536 | rVB2 | 366130 | 637959 | 22.37% | 1.656% |
| 41 | 17.951 | 2541 | 2544 | 2547 | rVB5 | 28305 | 39409 | 1.38% | 0.102% |
| 42 | 18.009 | 2549 | 2554 | 2558 | rBV2 | 86751 | 150276 | 5.27% | 0.390% |
| 43 | 18.051 | 2559 | 2561 | 2568 | rVB3 | 59701 | 76832 | 2.69% | 0.199% |
| 44 | 18.151 | 2571 | 2578 | 2579 | rBV7 | 35929 | 65593 | 2.30% | 0.170% |
| 45 | 18.268 | 2594 | 2598 | 2600 | rBV4 | 38034 | 52333 | 1.83% | 0.136% |
| 46 | 18.327 | 2604 | 2608 | 2614 | rVV3 | 52574 | 101748 | 3.57% | 0.264% |
| 47 | 18.386 | 2615 | 2618 | 2625 | rVB8 | 52718 | 103279 | 3.62% | 0.268% |
| 48 | 18.580 | 2644 | 2651 | 2653 | rVB7 | 23722 | 39915 | 1.40% | 0.104% |
| 49 | 18.633 | 2655 | 2660 | 2662 | rBV5 | 29158 | 47038 | 1.65% | 0.122% |
| 50 | 18.768 | 2677 | 2683 | 2686 | rVV3 | 126034 | 187618 | 6.58% | 0.487% |
| 51 | 18.904 | 2704 | 2706 | 2710 | rVB4 | 36472 | 35848 | 1.26% | 0.093% |
| 52 | 19.015 | 2715 | 2725 | 2731 | rBV | 829735 | 1204238 | 42.22% | 3.126% |
| 53 | 19.139 | 2742 | 2746 | 2751 | rBV3 | 182882 | 256149 | 8.98% | 0.665% |
| 54 | 19.251 | 2762 | 2765 | 2768 | rBV5 | 38033 | 58412 | 2.05% | 0.152% |
| 55 | 19.351 | 2777 | 2782 | 2786 | rBV | 1898504 | 2852367 | 100.00% | 7.405% |
| 56 | 19.380 | 2786 | 2787 | 2796 | rVV | 693880 | 623910 | 21.87% | 1.620% |
| 57 | 19.451 | 2798 | 2799 | 2806 | rVB7 | 46091 | 70678 | 2.48% | 0.183% |
| 58 | 19.586 | 2816 | 2822 | 2827 | rBV2 | 110320 | 176381 | 6.18% | 0.458% |
| 59 | 19.715 | 2839 | 2844 | 2845 | rBV5 | 55027 | 90007 | 3.16% | 0.234% |
| 60 | 19.780 | 2849 | 2855 | 2863 | rVV | 763105 | 1077673 | 37.78% | 2.798% |
| 61 | 19.886 | 2866 | 2873 | 2878 | rVB4 | 117849 | 334528 | 11.73% | 0.868% |
| 62 | 19.980 | 2887 | 2889 | 2893 | rVB2 | 45562 | 53987 | 1.89% | 0.140% |
| 63 | 20.186 | 2921 | 2924 | 2928 | rBV5 | 47962 | 60411 | 2.12% | 0.157% |
| 64 | 20.762 | 3019 | 3022 | 3026 | rBV4 | 115898 | 136979 | 4.80% | 0.356% |
| 65 | 20.798 | 3026 | 3028 | 3032 | rBV3 | 67363 | 77852 | 2.73% | 0.202% |
| 66 | 20.862 | 3035 | 3039 | 3046 | rVB2 | 665118 | 827125 | 29.00% | 2.147% |
| 67 | 21.062 | 3071 | 3073 | 3079 | rVB2 | 107010 | 121205 | 4.25% | 0.315% |
| 68 | 21.156 | 3083 | 3089 | 3093 | rVV2 | 1025532 | 1722301 | 60.38% | 4.471% |
| 69 | 21.192 | 3093 | 3095 | 3100 | rVB | 328795 | 378797 | 13.28% | 0.983% |
| 70 | 22.650 | 3340 | 3343 | 3347 | rBV | 453726 | 573426 | 20.10% | 1.489% |
| 71 | 22.697 | 3347 | 3351 | 3363 | rVB | 344465 | 866759 | 30.39% | 2.250% |

LSC Area Percent Report

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Acq On : 05 Mar 2018 13:23
Operator : SJ/JU
Sample : J1678-22
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE5Z5

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 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_M\METHODS\SOM-EPA-BM021418.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 23.203 | 3432 | 3437 | 3442 | rBV2 | 901973 | 1567971 | 54.97% | 4.071% |
| 73 | 23.339 | 3455 | 3460 | 3466 | rBV2 | 494394 | 838237 | 29.39% | 2.176% |
| 74 | 23.803 | 3534 | 3539 | 3547 | rVB | 729349 | 1282128 | 44.95% | 3.329% |

Sum of corrected areas: 38518255

Data Path : Z:\HPCHEM1\BNA M\DATA\BM030518\
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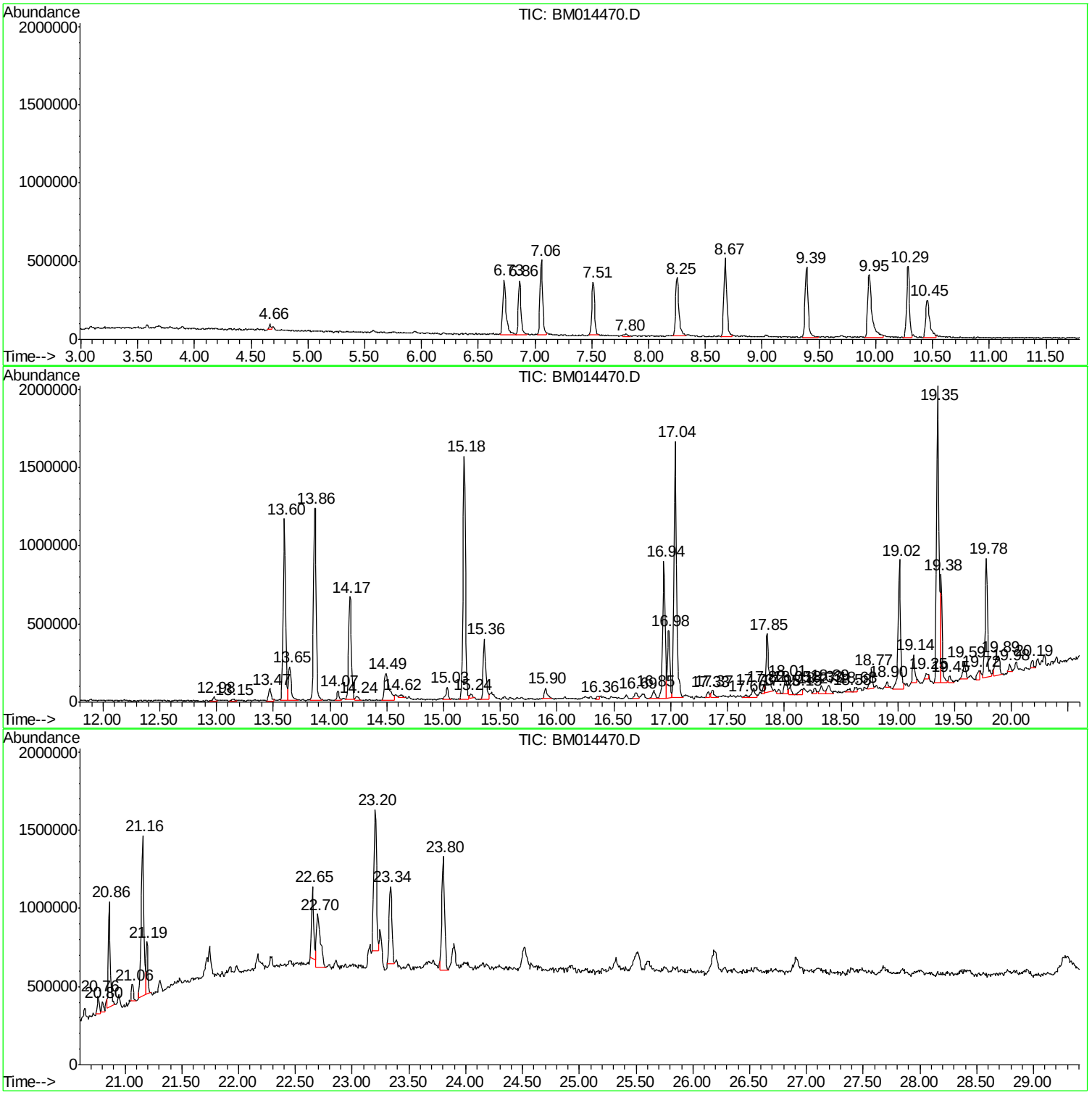
Sample : J1678-22
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE5Z5

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.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 M\DATA\BM030518\
Data File : BM014470.D
Acq On : 05 Mar 2018 13:23
Operator : SJ/JU
Sample : J1678-22
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE5Z5

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

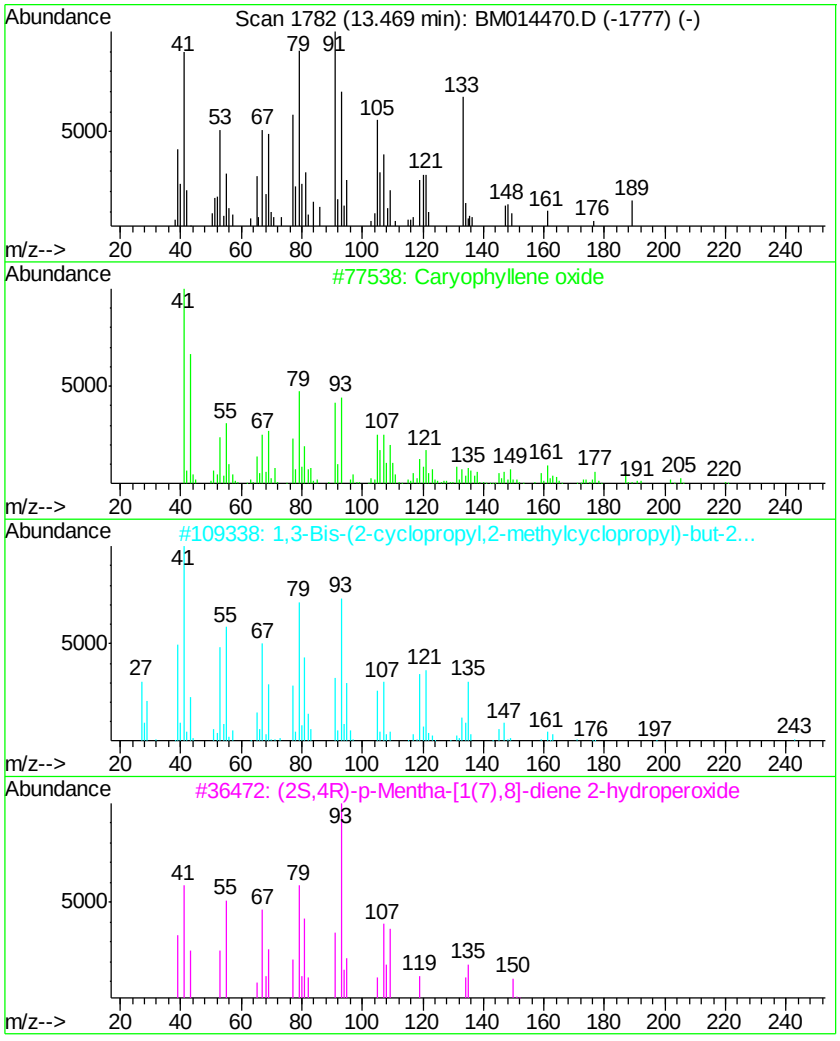
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

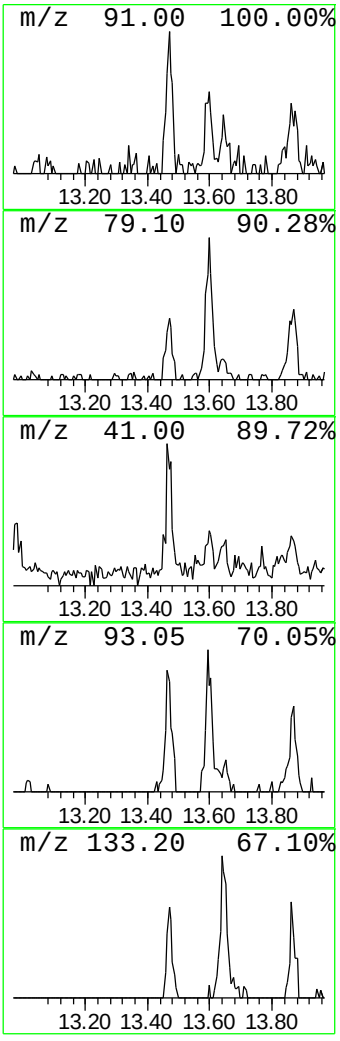
**********

Peak Number 1 Caryophyllene oxide Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.47 | 2.41 ng/ul | 126768 | Acenaphthene-d10 | 14.17 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Caryophyllene oxide | 220 | C15H24O | 001139-30-6 | 59 |
| 2 | 1,3-Bis-(2-cyclopropyl,2-methylc... | 258 | C18H26O | 1000222-08-6 | 52 |
| 3 | (2S,4R)-p-Mentha-[1(7),8]-diene ... | 168 | C10H16O2 | 1000292-74-4 | 50 |
| 4 | 1,3,7-Octatriene, 3,7-dimethyl- | 136 | C10H16 | 000502-99-8 | 38 |
| 5 | 4-Tridecen-6-yne, (E)- | 178 | C13H22 | 074744-43-7 | 27 |



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Data File : BM014470.D
Acq On : 05 Mar 2018 13:23
Operator : SJ/JU
Sample : J1678-22
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE5Z5

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

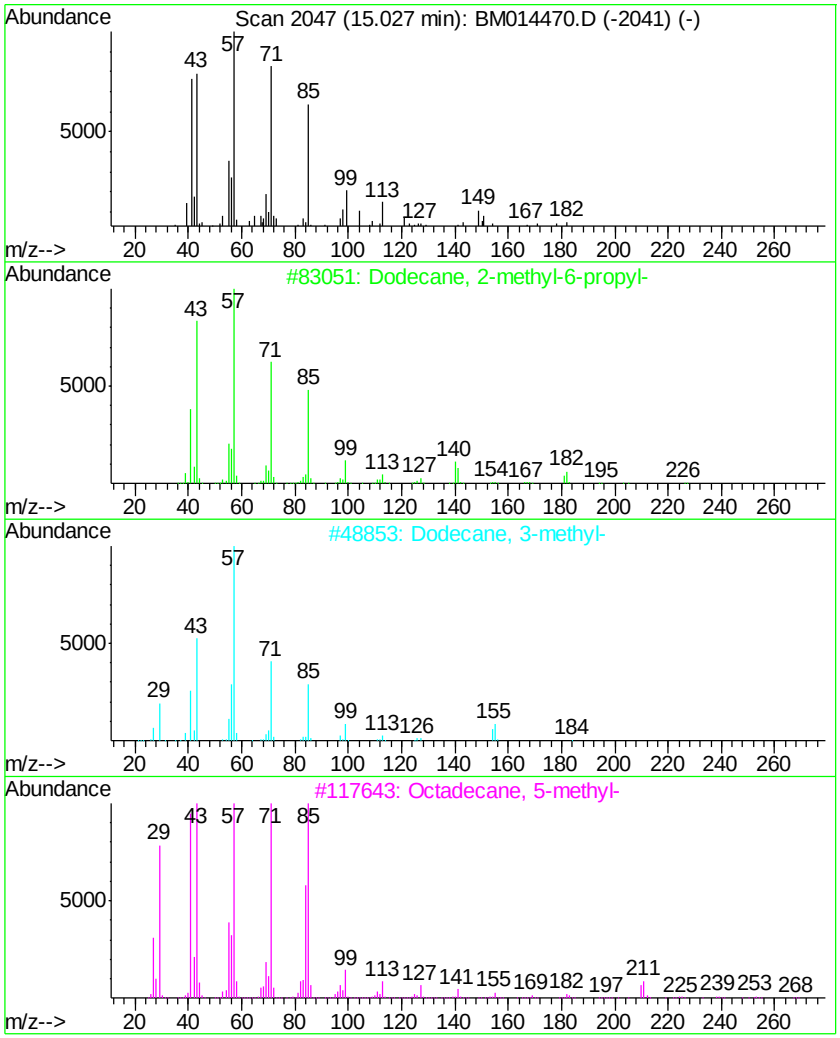
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

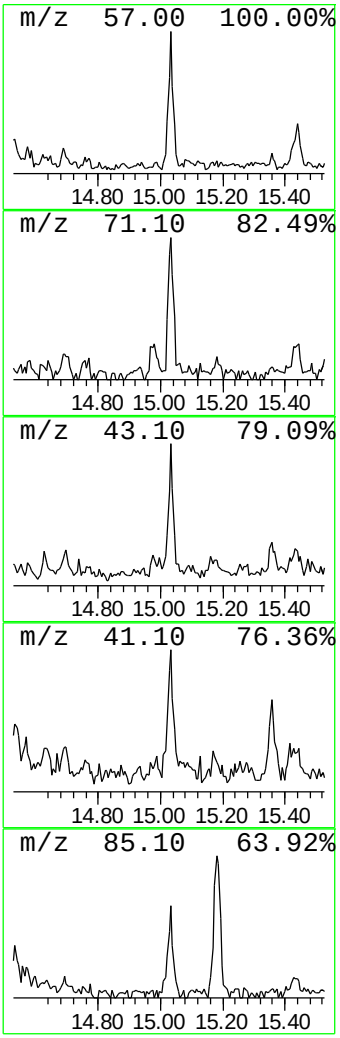
**********

Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.03 | 2.12 ng/ul | 111754 | Acenaphthene-d10 | 14.17 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dodecane, 2-methyl-6-propyl- | 226 | C16H34 | 055045-08-4 | 78 |
| 2 | Dodecane, 3-methyl- | 184 | C13H28 | 017312-57-1 | 72 |
| 3 | Octadecane, 5-methyl- | 268 | C19H40 | 025117-35-5 | 72 |
| 4 | Dodecane, 5-methyl- | 184 | C13H28 | 017453-93-9 | 64 |
| 5 | 1-Iodo-2-methylundecane | 296 | C12H25I | 073105-67-6 | 59 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM030518\
Data File : BM014470.D
Acq On : 05 Mar 2018 13:23
Operator : SJ/JU
Sample : J1678-22
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE5Z5

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

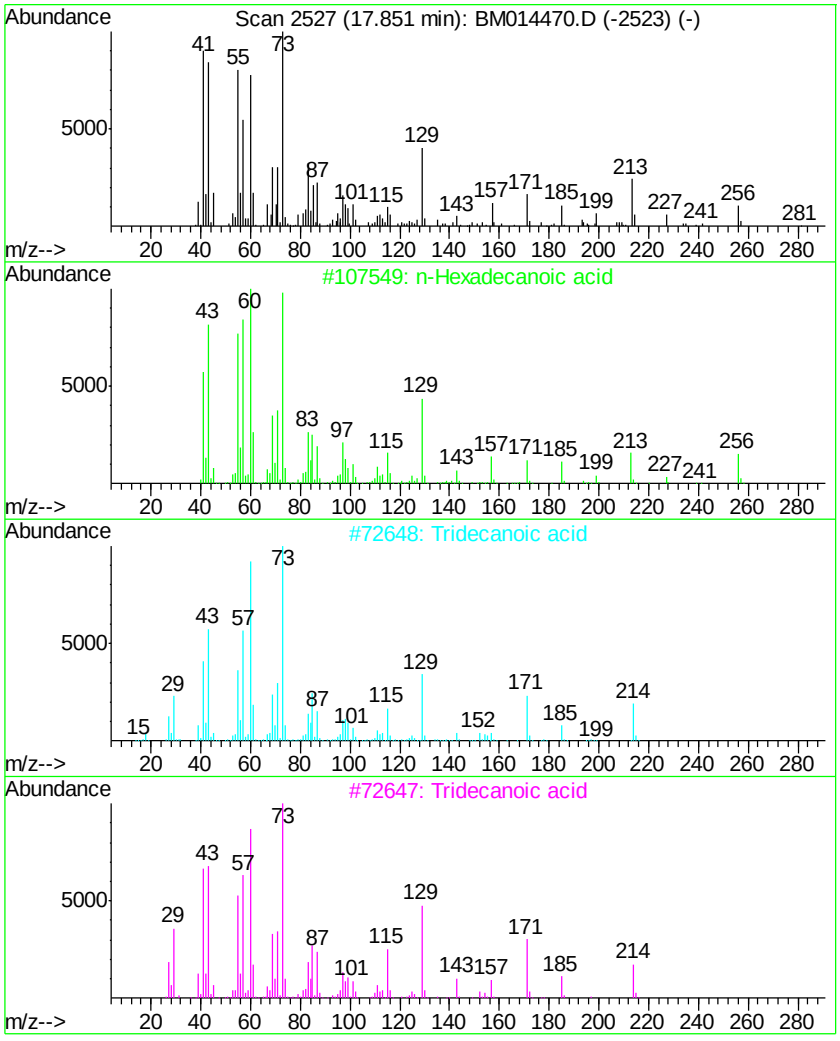
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

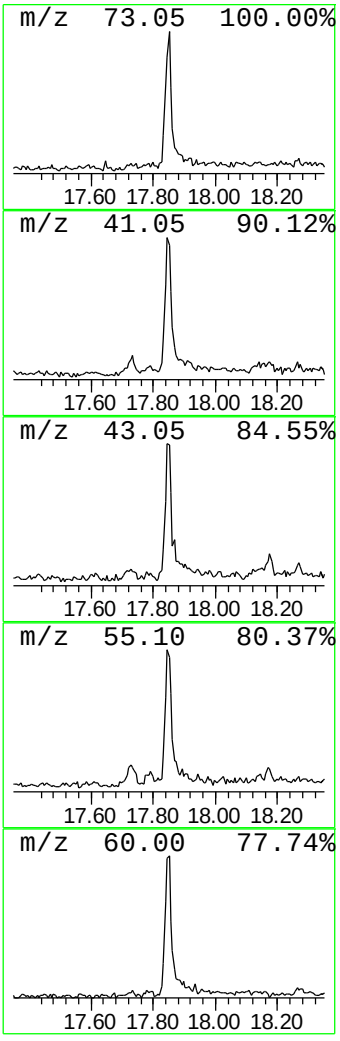
**********

Peak Number 3 n-Hexadecanoic acid Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.85 | 9.56 ng/ul | 637959 | Phenanthrene-d10 | 16.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 98 |
| 2 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 93 |
| 3 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 93 |
| 4 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 90 |
| 5 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 74 |



# Library Search Compound Report

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Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE5Z5

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

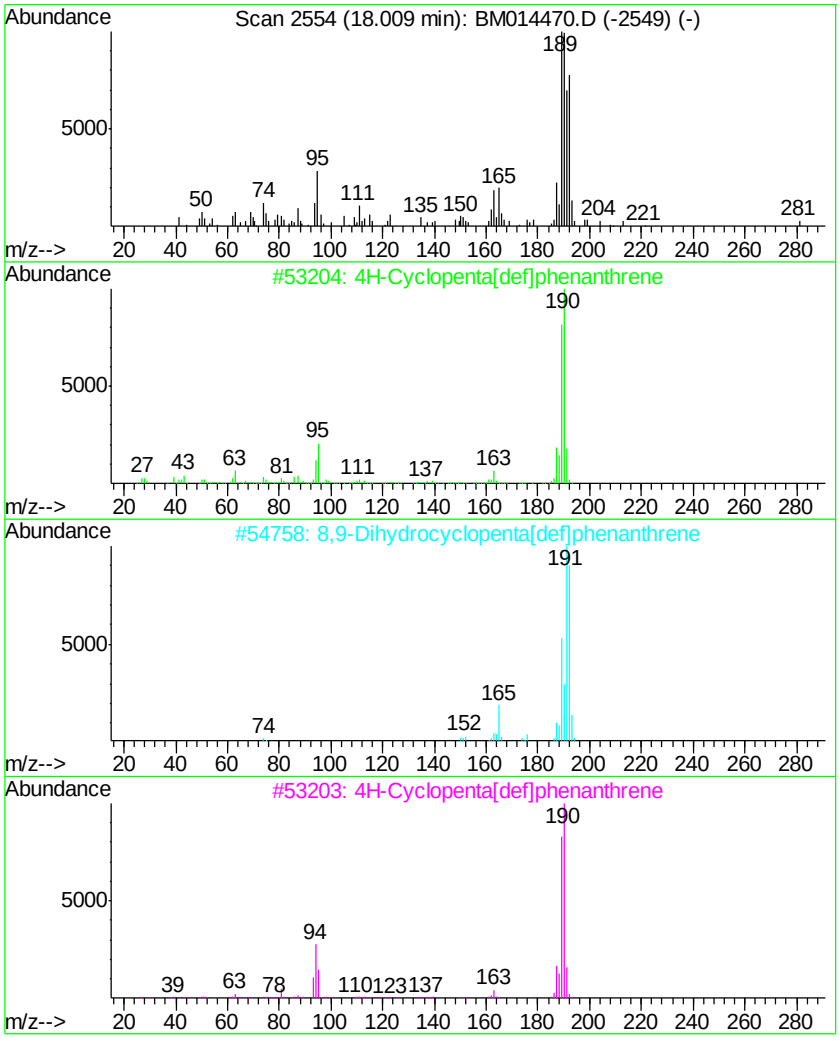
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

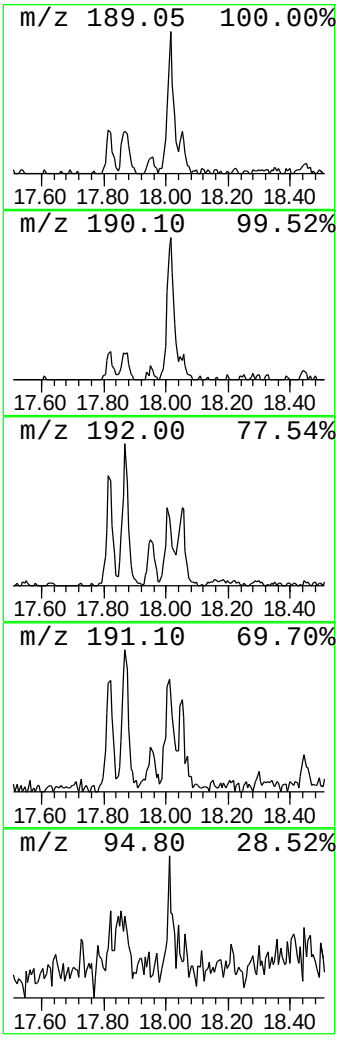
**********

Peak Number 4 unknown-01 Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.01 | 2.25 ng/ul | 150276 | Phenanthrene-d10 | 16.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 49 |
| 2 | 8,9-Dihydrocyclopenta[def]phenan... | 192 | C15H12 | 027410-55-5 | 46 |
| 3 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 46 |
| 4 | Benzene, 1,1'-(2-cyclopropen-1-y... | 192 | C15H12 | 022825-21-4 | 41 |
| 5 | Phenanthrene, 4-methyl- | 192 | C15H12 | 000832-64-4 | 38 |



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Acq On : 05 Mar 2018 13:23
Operator : SJ/JU
Sample : J1678-22
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE5Z5

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

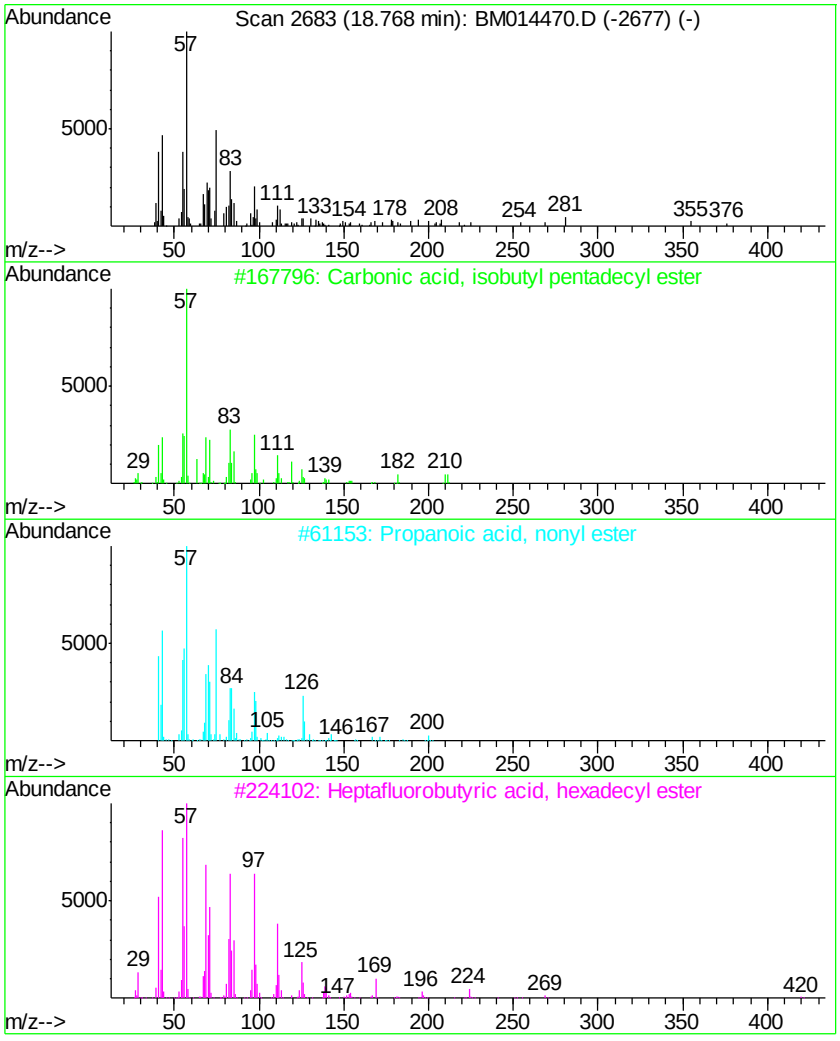
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

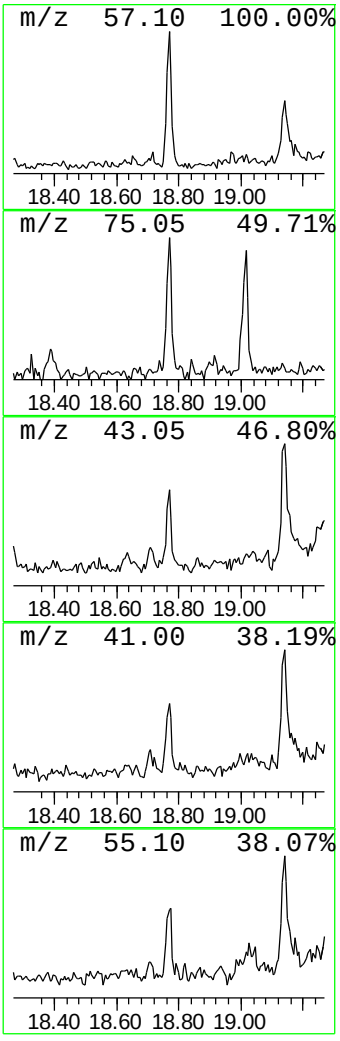
**********

Peak Number 5 Carbonic acid, isobutyl pen... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.77 | 2.81 ng/ul | 187618 | Phenanthrene-d10 | 16.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Carbonic acid, isobutyl pentadec... | 328 | C20H40O3 | 1000314-61-2 | 53 |
| 2 | Propanoic acid, nonyl ester | 200 | C12H24O2 | 053184-67-1 | 53 |
| 3 | Heptafluorobutyric acid, hexadec... | 438 | C20H33F7O2 | 006385-15-5 | 47 |
| 4 | Heptafluorobutyric acid, n-octad... | 466 | C22H37F7O2 | 000400-57-7 | 47 |
| 5 | Pentafluoropropionic acid, hepta... | 402 | C20H35F5O2 | 959218-78-1 | 47 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM030518\
Data File : BM014470.D
Acq On : 05 Mar 2018 13:23
Operator : SJ/JU
Sample : J1678-22
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE5Z5

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

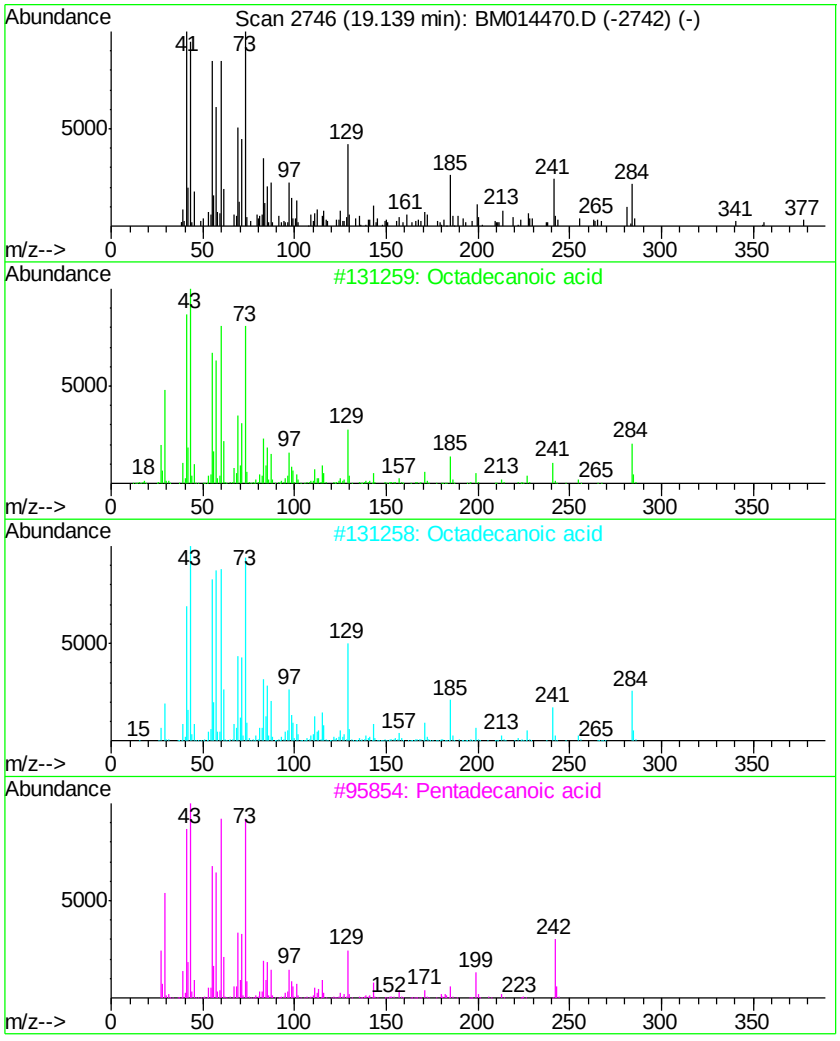
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

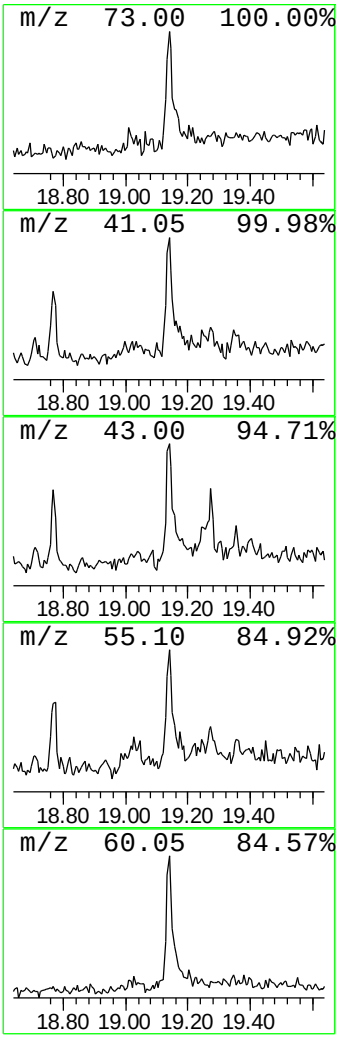
**********

Peak Number 6 Octadecanoic acid Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.14 | 2.97 ng/ul | 256149 | Chrysene-d12 | 21.16 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octadecanoic acid | 284 | C18H36O2 | 000057-11-4 | 96 |
| 2 | Octadecanoic acid | 284 | C18H36O2 | 000057-11-4 | 93 |
| 3 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 92 |
| 4 | Octadecanoic acid | 284 | C18H36O2 | 000057-11-4 | 91 |
| 5 | Octadecanoic acid | 284 | C18H36O2 | 000057-11-4 | 86 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM030518\
Data File : BM014470.D
Acq On : 05 Mar 2018 13:23
Operator : SJ/JU
Sample : J1678-22
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE5Z5

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

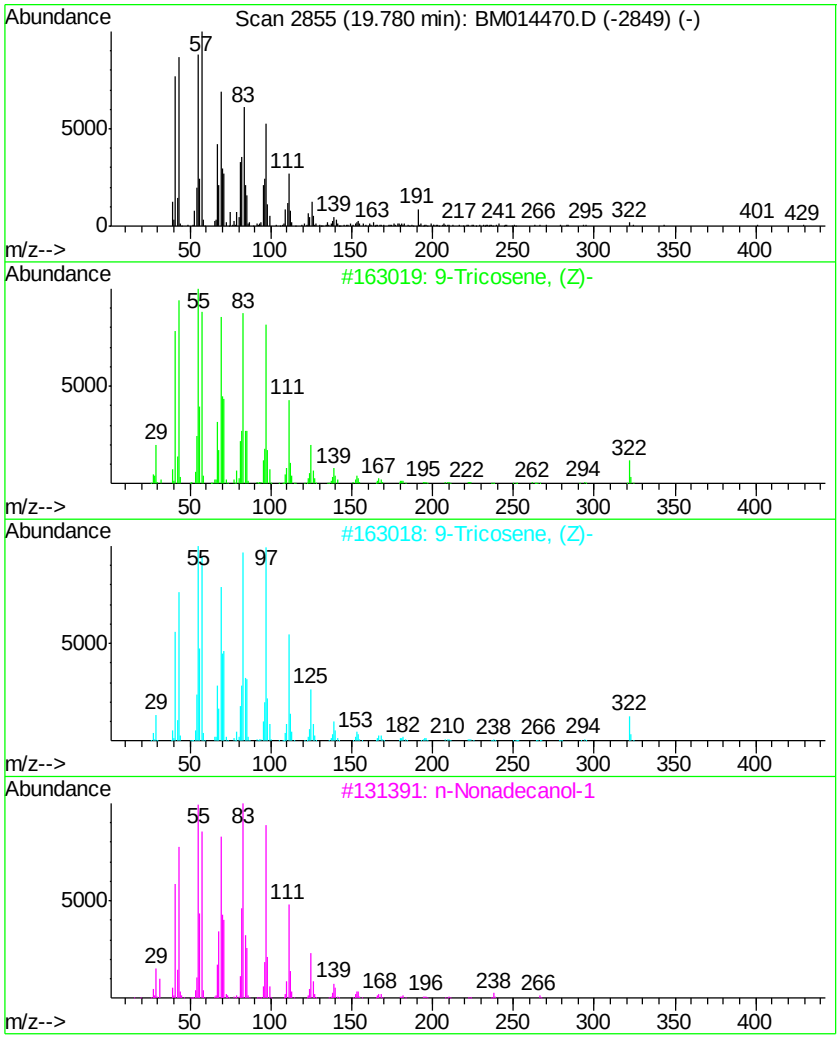
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

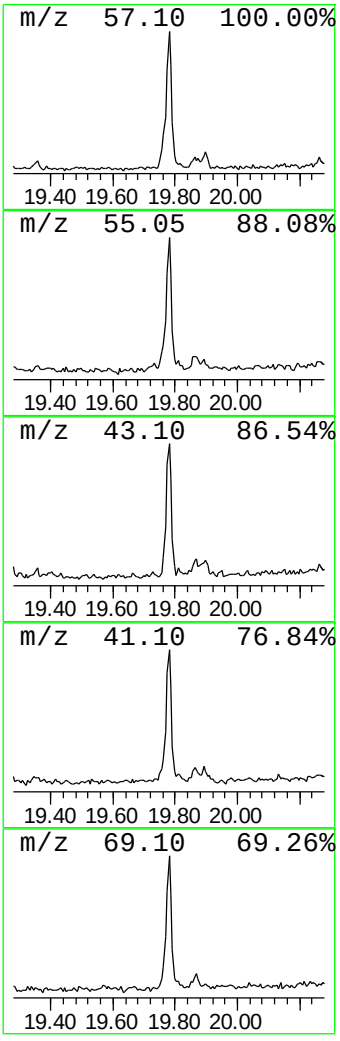
**********

Peak Number 8 (DEL) Alkane: Cyclic19.78 Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.78 | 12.51 ng/ul | 1077670 | Chrysene-d12 | 21.16 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9-Tricosene, (Z)- | 322 | C23H46 | 027519-02-4 | 92 |
| 2 | 9-Tricosene, (Z)- | 322 | C23H46 | 027519-02-4 | 68 |
| 3 | n-Nonadecanol-1 | 284 | C19H40O | 001454-84-8 | 64 |
| 4 | Bromoacetic acid, octadecyl ester | 390 | C20H39BrO2 | 018992-03-5 | 64 |
| 5 | 1-Eicosanol | 298 | C20H42O | 000629-96-9 | 64 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM030518\
Data File : BM014470.D
Acq On : 05 Mar 2018 13:23
Operator : SJ/JU
Sample : J1678-22
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE5Z5

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

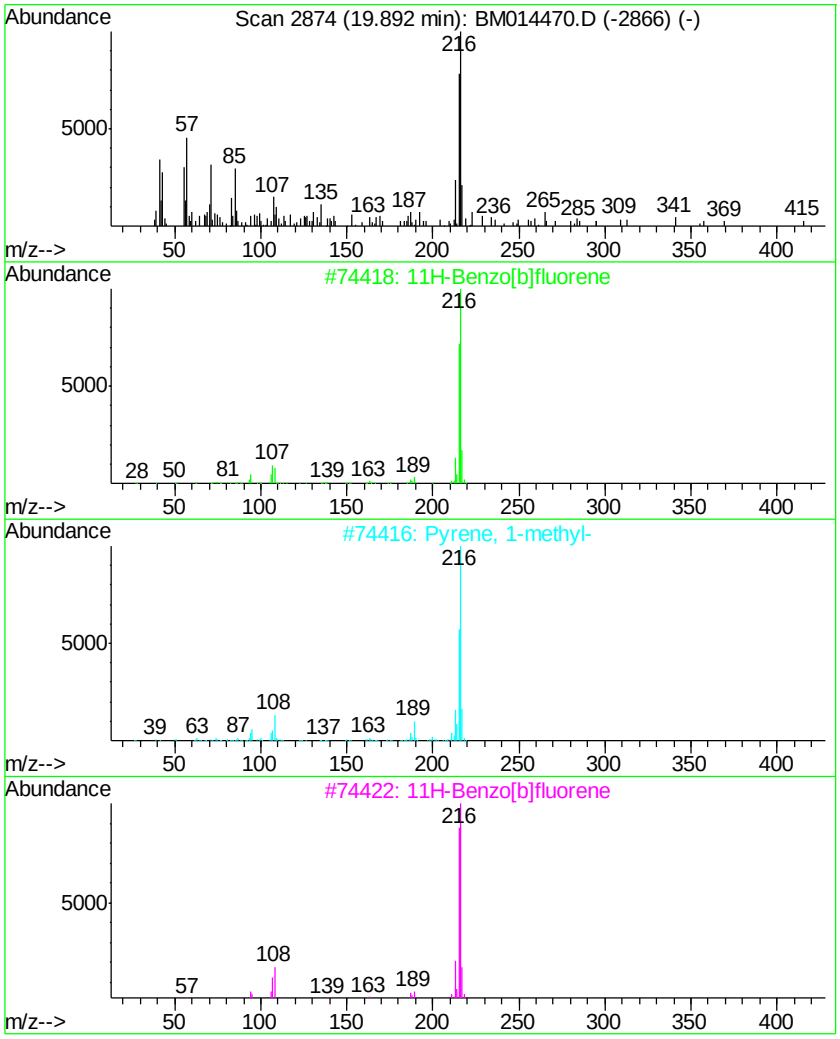
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

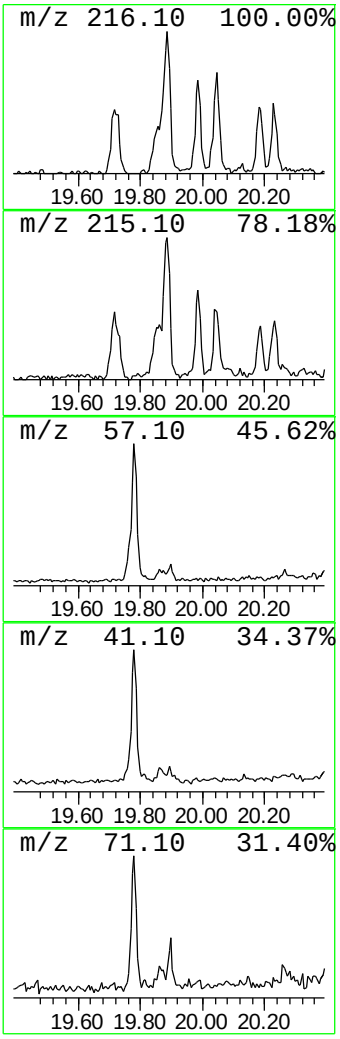
**********

Peak Number 9 11H-Benzo[b]fluorene Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.89 | 3.88 ng/ul | 334528 | Chrysene-d12 | 21.16 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 87 |
| 2 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 83 |
| 3 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 76 |
| 4 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 76 |
| 5 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 74 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM030518\
Data File : BM014470.D
Acq On : 05 Mar 2018 13:23
Operator : SJ/JU
Sample : J1678-22
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE5Z5

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

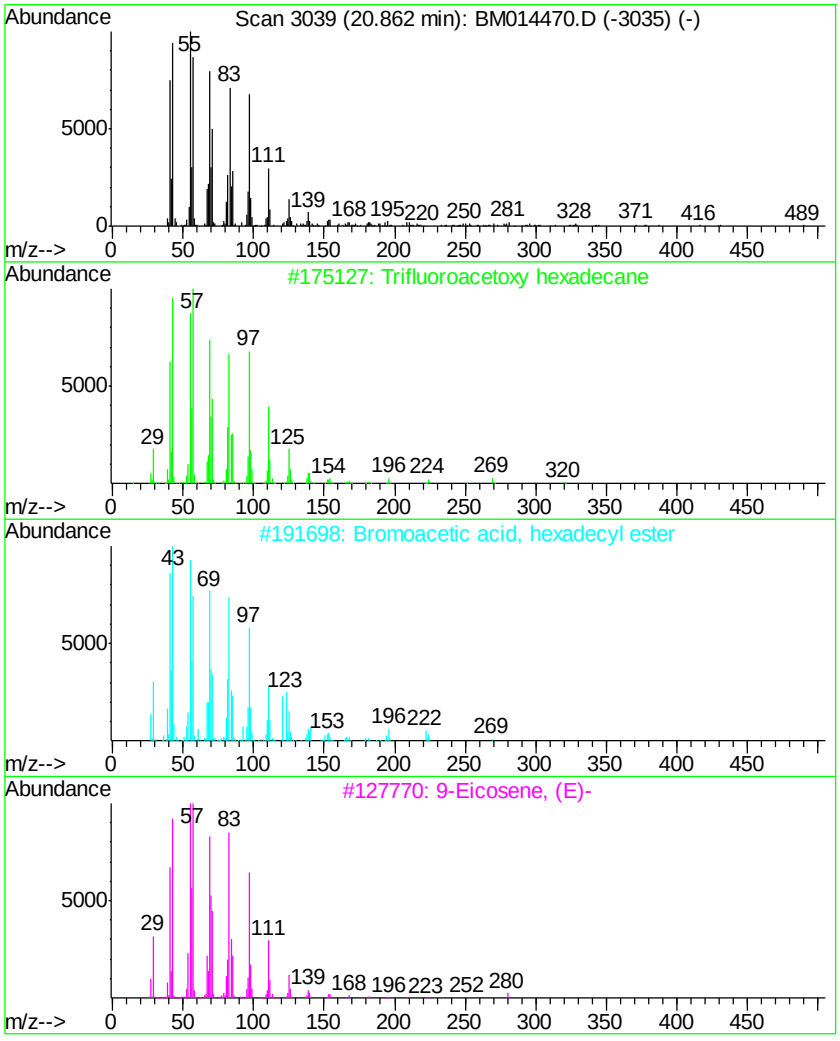
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

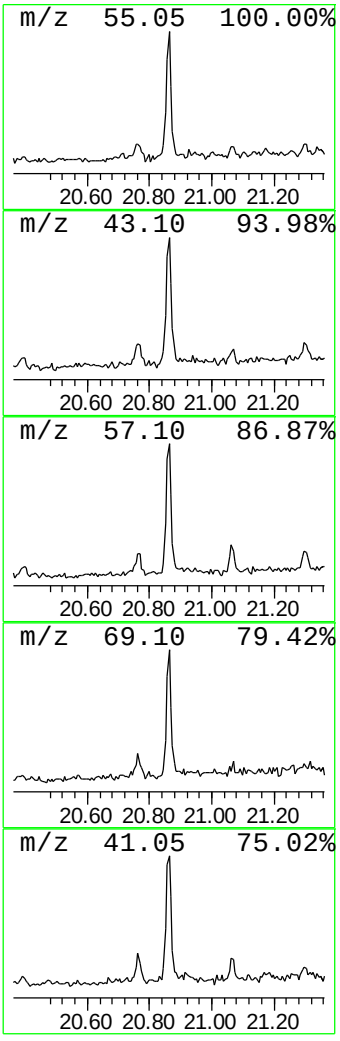
**********

Peak Number 10 Trifluoroacetoxy hexadecane Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.86 | 9.60 ng/ul | 827125 | Chrysene-d12 | 21.16 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Trifluoroacetoxy hexadecane | 338 | C18H33F3O2 | 006222-03-3 | 91 |
| 2 | Bromoacetic acid, hexadecyl ester | 362 | C18H35BrO2 | 005454-48-8 | 90 |
| 3 | 9-Eicosene, (E)- | 280 | C20H40 | 074685-29-3 | 87 |
| 4 | n-Tetracosanol-1 | 354 | C24H50O | 000506-51-4 | 83 |
| 5 | Trichloroacetic acid, hexadecyl ... | 386 | C18H33Cl3O2 | 074339-54-1 | 70 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM030518\
Data File : BM014470.D
Acq On : 05 Mar 2018 13:23
Operator : SJ/JU
Sample : J1678-22
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE5Z5

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

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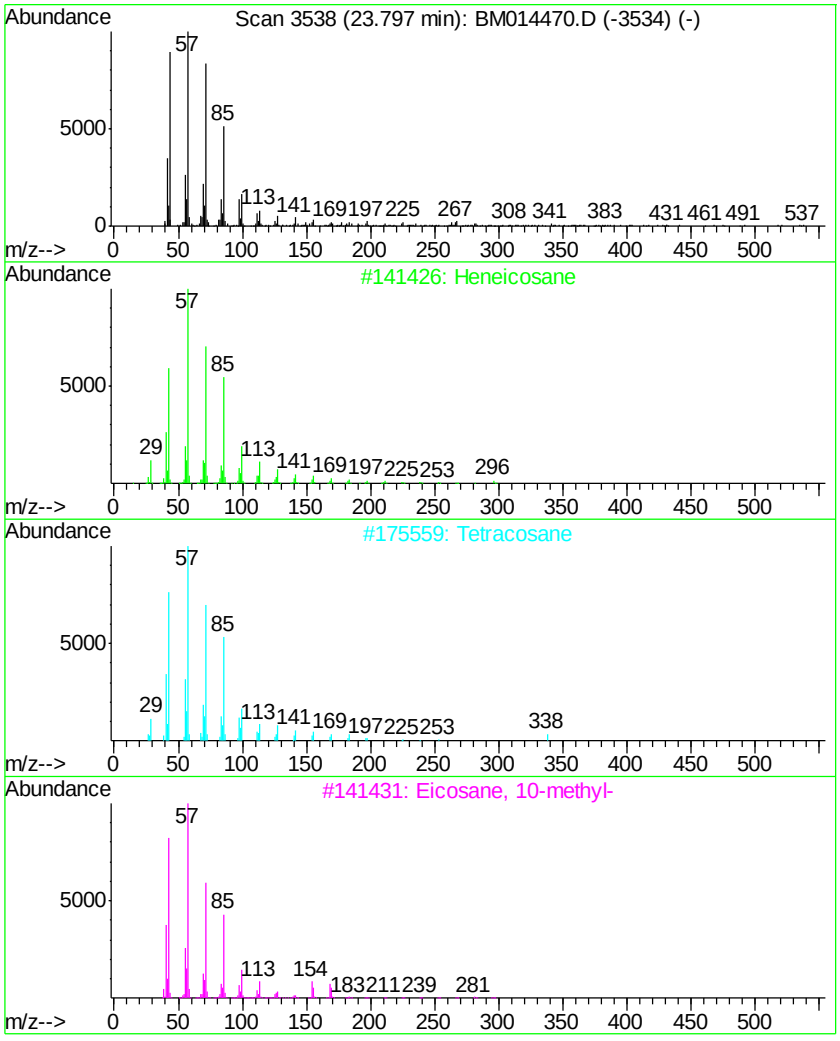
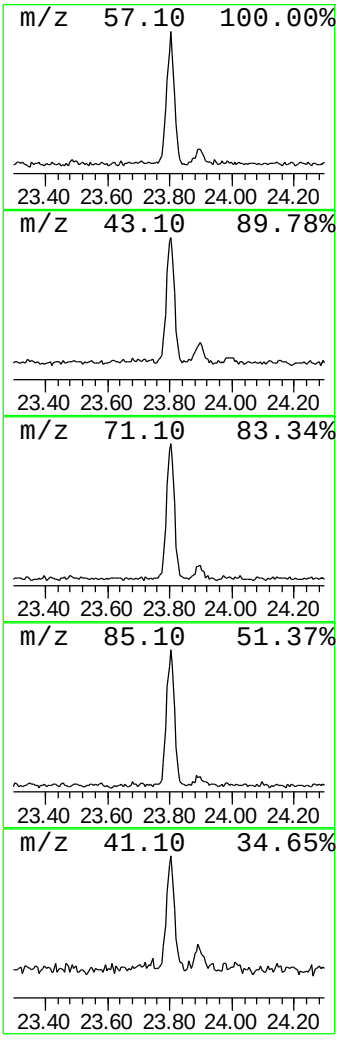
Peak Number 11 (DEL) Alkane: Straight-Chai... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 23.80 | 30.59 ng/ul | 1282130 | Perylene-d12 | 23.34 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heneicosane | 296 | C21H44 | 000629-94-7 | 97 |
| 2 | Tetracosane | 338 | C24H50 | 000646-31-1 | 94 |
| 3 | Eicosane, 10-methyl- | 296 | C21H44 | 054833-23-7 | 93 |
| 4 | Heneicosane | 296 | C21H44 | 000629-94-7 | 91 |
| 5 | Tetracosane, 11-decyl- | 479 | C34H70 | 055429-84-0 | 90 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM030518\
Data File : BM014470.D
Acq On : 05 Mar 2018 13:23
Operator : SJ/JU
Sample : J1678-22
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** BE5Z5

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.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 |
| Caryophyllene oxide | 13.47 | 2.4 | ng/ul | 126768 | 3 | 14.17 | 1053500 | 20.0 |
| (DEL) Alkane: Str... | 15.03 | 2.1 | ng/ul | 111754 | 3 | 14.17 | 1053500 | 20.0 |
| n-Hexadecanoic acid | 17.85 | 9.6 | ng/ul | 637959 | 4 | 16.94 | 1335150 | 20.0 |
| unknown-01 | 18.01 | 2.3 | ng/ul | 150276 | 4 | 16.94 | 1335150 | 20.0 |
| Carbonic acid, is... | 18.77 | 2.8 | ng/ul | 187618 | 4 | 16.94 | 1335150 | 20.0 |
| Octadecanoic acid | 19.14 | 3.0 | ng/ul | 256149 | 5 | 21.16 | 1722300 | 20.0 |
| (DEL) Alkane: Cyc... | 19.78 | 12.5 | ng/ul | 1077670 | 5 | 21.16 | 1722300 | 20.0 |
| 11H-Benzo[b]fluorene | 19.89 | 3.9 | ng/ul | 334528 | 5 | 21.16 | 1722300 | 20.0 |
| Trifluoroacetoxy ... | 20.86 | 9.6 | ng/ul | 827125 | 5 | 21.16 | 1722300 | 20.0 |
| (DEL) Alkane: Str... | 23.80 | 30.6 | ng/ul | 1282130 | 6 | 23.34 | 838237 | 20.0 |