LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061017\
Data File : BM010483.D
Acq On : 10 Jun 2017 13:46
Operator : SJ/MA
Sample : I3521-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5C18

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-BM052717.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 | 7.081 | 672 | 679 | 689 | rBV | 365623 | 641884 | 8.74% | 0.963% |
| 2 | 7.240 | 700 | 706 | 714 | rBV | 242276 | 387195 | 5.27% | 0.581% |
| 3 | 7.434 | 733 | 739 | 747 | rBV | 431922 | 673937 | 9.18% | 1.011% |
| 4 | 7.892 | 809 | 817 | 828 | rBV | 716287 | 1157686 | 15.77% | 1.737% |
| 5 | 8.616 | 931 | 940 | 950 | rBV2 | 453006 | 762679 | 10.39% | 1.144% |
| 6 | 9.081 | 1012 | 1019 | 1027 | rBV | 367601 | 600217 | 8.17% | 0.900% |
| 7 | 9.792 | 1132 | 1140 | 1147 | rBV | 376187 | 653335 | 8.90% | 0.980% |
| 8 | 10.322 | 1223 | 1230 | 1241 | rBV | 582108 | 991662 | 13.51% | 1.488% |
| 9 | 10.698 | 1287 | 1294 | 1300 | rBV | 876969 | 1498776 | 20.41% | 2.248% |
| 10 | 10.863 | 1312 | 1322 | 1333 | rBV | 390626 | 717220 | 9.77% | 1.076% |
| 11 | 13.945 | 1840 | 1846 | 1850 | rBV | 1126155 | 1504717 | 20.49% | 2.257% |
| 12 | 13.992 | 1850 | 1854 | 1861 | rVB | 386573 | 588480 | 8.01% | 0.883% |
| 13 | 14.233 | 1887 | 1895 | 1906 | rBV | 1070015 | 1823645 | 24.84% | 2.736% |
| 14 | 14.439 | 1925 | 1930 | 1936 | rVB5 | 54582 | 121316 | 1.65% | 0.182% |
| 15 | 14.533 | 1939 | 1946 | 1953 | rBV2 | 1390702 | 2081758 | 28.35% | 3.123% |
| 16 | 14.780 | 1982 | 1988 | 1995 | rBV | 310996 | 508945 | 6.93% | 0.763% |
| 17 | 15.527 | 2107 | 2115 | 2121 | rBV | 1422941 | 2099398 | 28.59% | 3.149% |
| 18 | 15.651 | 2131 | 2136 | 2143 | rBV2 | 412765 | 583817 | 7.95% | 0.876% |
| 19 | 15.757 | 2150 | 2154 | 2160 | rBV9 | 57759 | 102217 | 1.39% | 0.153% |
| 20 | 15.910 | 2175 | 2180 | 2186 | rBV | 284330 | 389890 | 5.31% | 0.585% |
| 21 | 16.151 | 2217 | 2221 | 2229 | rBV | 149161 | 234864 | 3.20% | 0.352% |
| 22 | 17.280 | 2407 | 2413 | 2418 | rBV | 2000210 | 2772557 | 37.76% | 4.159% |
| 23 | 17.321 | 2418 | 2420 | 2424 | rVB2 | 112279 | 116723 | 1.59% | 0.175% |
| 24 | 17.380 | 2424 | 2430 | 2434 | rBV | 1681138 | 2415209 | 32.89% | 3.623% |
| 25 | 17.698 | 2480 | 2484 | 2490 | rVB3 | 87633 | 141823 | 1.93% | 0.213% |
| 26 | 18.074 | 2543 | 2548 | 2552 | rBV6 | 109242 | 169650 | 2.31% | 0.255% |
| 27 | 18.127 | 2552 | 2557 | 2565 | rVV3 | 359868 | 551943 | 7.52% | 0.828% |
| 28 | 18.980 | 2698 | 2702 | 2704 | rBV5 | 51958 | 76986 | 1.05% | 0.115% |
| 29 | 19.056 | 2711 | 2715 | 2718 | rBV2 | 83649 | 114315 | 1.56% | 0.171% |
| 30 | 19.209 | 2738 | 2741 | 2747 | rVB | 142397 | 205554 | 2.80% | 0.308% |
| 31 | 19.333 | 2757 | 2762 | 2767 | rVB | 1467261 | 2010972 | 27.39% | 3.017% |
| 32 | 19.398 | 2770 | 2773 | 2784 | rVV10 | 206404 | 381915 | 5.20% | 0.573% |
| 33 | 19.480 | 2784 | 2787 | 2792 | rVV4 | 82803 | 96323 | 1.31% | 0.144% |
| 34 | 19.668 | 2813 | 2819 | 2821 | rBV | 2375316 | 3390476 | 46.17% | 5.086% |

LSC Area Percent Report

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Data File : BM010483.D
Acq On : 10 Jun 2017 13:46
Operator : SJ/MA
Sample : I3521-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5C18

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-BM052717.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 19.698 | 2821 | 2824 | 2830 | rVB | 2183827 | 2906615 | 39.58% | 4.360% |
| 36 | 19.874 | 2850 | 2854 | 2856 | rBV3 | 112142 | 138072 | 1.88% | 0.207% |
| 37 | 20.009 | 2872 | 2877 | 2885 | rVB5 | 261161 | 598640 | 8.15% | 0.898% |
| 38 | 20.339 | 2926 | 2933 | 2937 | rVV2 | 339196 | 683112 | 9.30% | 1.025% |
| 39 | 20.480 | 2954 | 2957 | 2961 | rBV | 313099 | 352964 | 4.81% | 0.530% |
| 40 | 20.927 | 3029 | 3033 | 3040 | rBV | 463769 | 736554 | 10.03% | 1.105% |
| 41 | 21.097 | 3058 | 3062 | 3065 | rBV2 | 379876 | 575870 | 7.84% | 0.864% |
| 42 | 21.133 | 3066 | 3068 | 3071 | rVB2 | 344545 | 330702 | 4.50% | 0.496% |
| 43 | 21.174 | 3071 | 3075 | 3079 | rBV2 | 407157 | 596724 | 8.13% | 0.895% |
| 44 | 21.227 | 3081 | 3084 | 3088 | rVB | 343164 | 429421 | 5.85% | 0.644% |
| 45 | 21.444 | 3115 | 3121 | 3125 | rBV2 | 3716837 | 6906579 | 94.06% | 10.361% |
| 46 | 21.486 | 3125 | 3128 | 3132 | rVB | 1615636 | 1947440 | 26.52% | 2.921% |
| 47 | 23.074 | 3392 | 3398 | 3404 | rBV | 3042359 | 7342731 | 100.00% | 11.015% |
| 48 | 23.580 | 3479 | 3484 | 3489 | rBV | 1453297 | 2711446 | 36.93% | 4.068% |
| 49 | 23.633 | 3489 | 3493 | 3498 | rVV2 | 1661810 | 3400000 | 46.30% | 5.101% |
| 50 | 23.680 | 3498 | 3501 | 3508 | rVB | 1794949 | 2991134 | 40.74% | 4.487% |
| 51 | 23.786 | 3514 | 3519 | 3524 | rBV2 | 1917163 | 3443541 | 46.90% | 5.166% |

Sum of corrected areas: 66659629

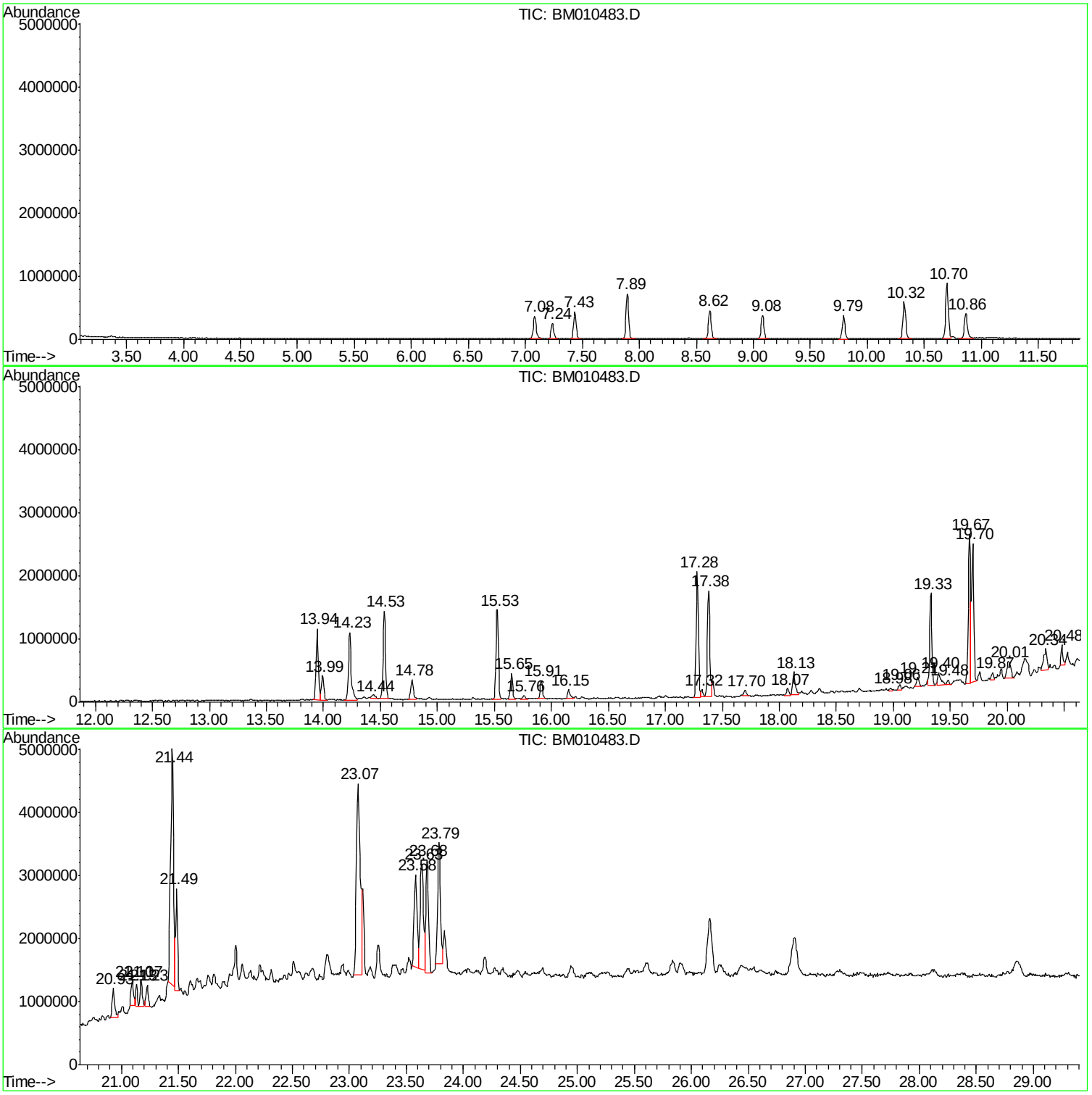
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061017\
Data File : BM010483.D
Acq On : 10 Jun 2017 13:46
Operator : SJ/MA
Sample : I3521-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5C18

Quant Method : Z:\HPCHEM1\BNA_M\Methods\SOM-EPA-BM052717.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\BM061017\
Data File : BM010483.D
Acq On : 10 Jun 2017 13:46
Operator : SJ/MA
Sample : I3521-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5C18

Quant Method : Z:\HPCHEM1\BNA_M\Methods\SOM-EPA-BM052717.M
Quant Title : SVOA CALIBRATION

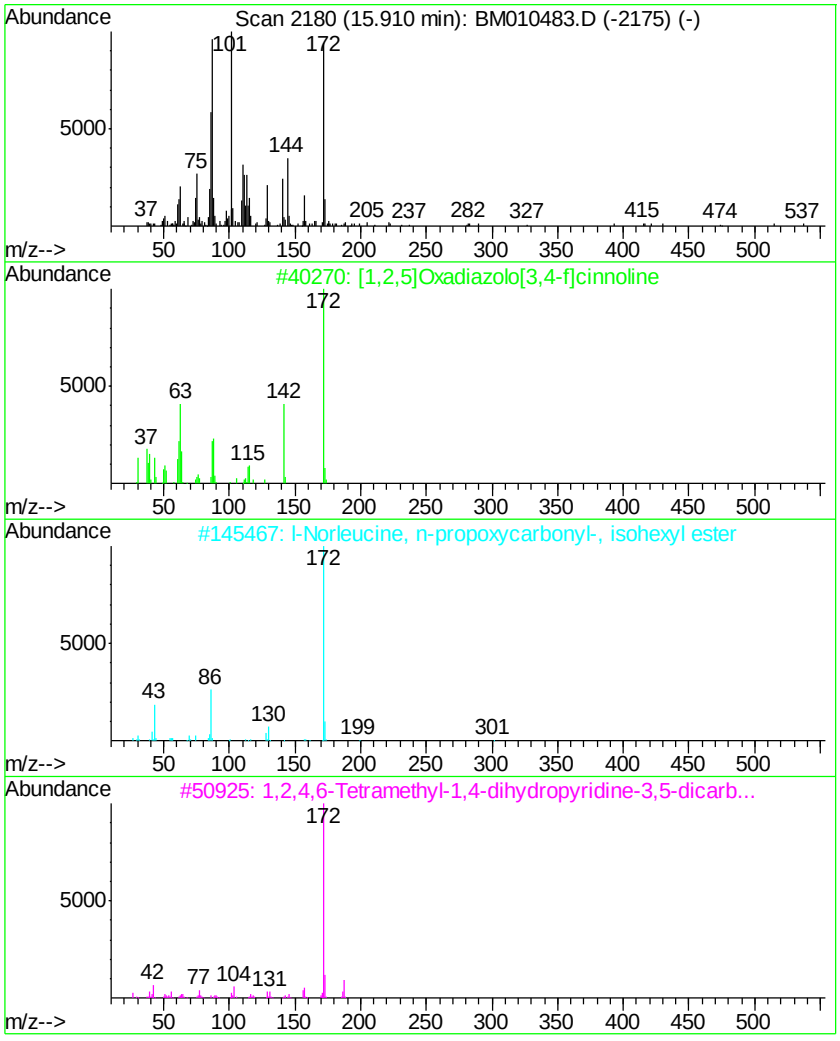
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

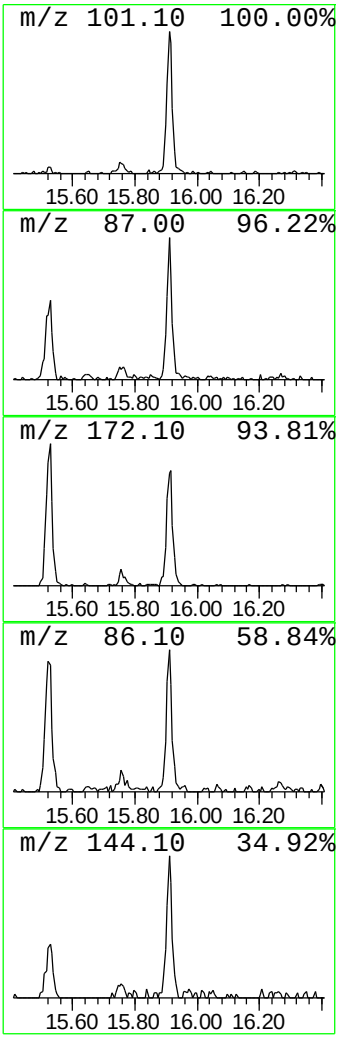
**********

Peak Number 1 unknown-01 Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.91 | 2.81 ng/ul | 389890 | Phenanthrene-d10 | 17.28 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | [1,2,5]Oxadiazolo[3,4-f]cinnoline | 172 | C8H4N4O | 217491-04-8 | 30 |
| 2 | l-Norleucine, n-propoxycarbonyl-... | 301 | C16H31NO4 | 1000329-54-1 | 14 |
| 3 | 1,2,4,6-Tetramethyl-1,4-dihydrop... | 187 | C11H13N3 | 014002-85-8 | 11 |
| 4 | Succinic acid, 3,7-dimethyloct-6... | 284 | C16H28O4 | 1000353-33-4 | 11 |
| 5 | Octanoic acid, 4-methyl-, ethyl ... | 186 | C11H22O2 | 054831-51-5 | 10 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061017\
Data File : BM010483.D
Acq On : 10 Jun 2017 13:46
Operator : SJ/MA
Sample : I3521-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5C18

Quant Method : Z:\HPCHEM1\BNA_M\Methods\SOM-EPA-BM052717.M
Quant Title : SVOA CALIBRATION

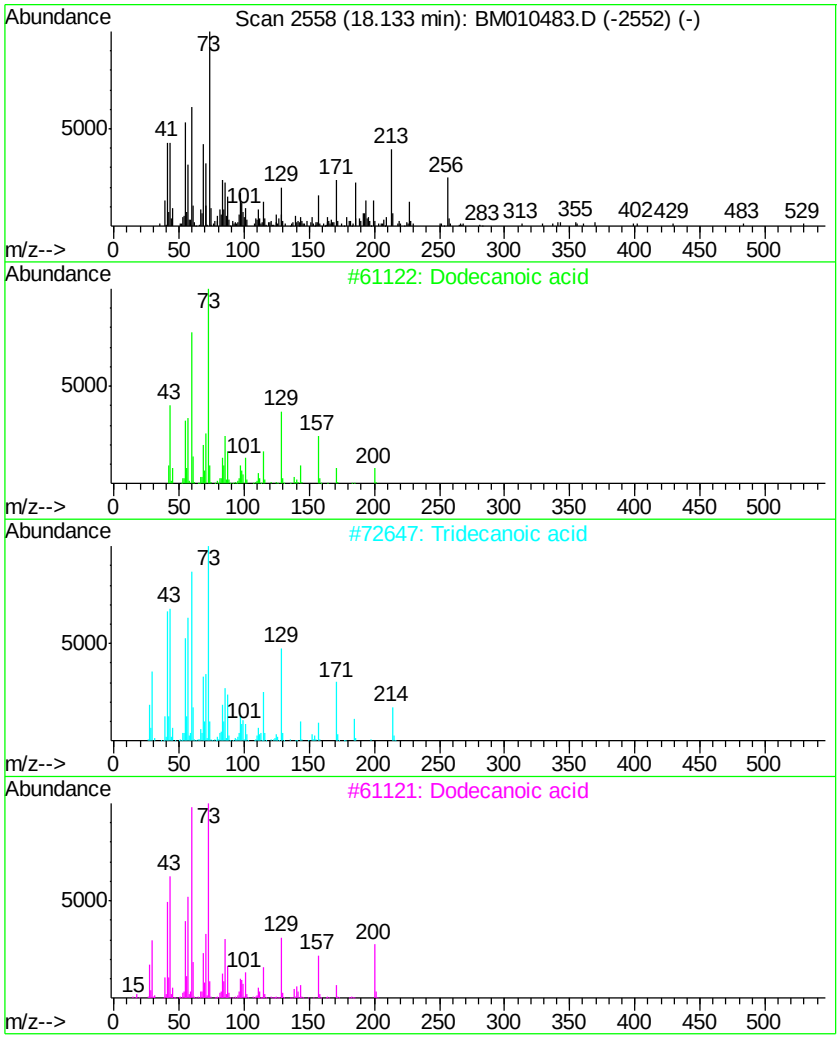
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

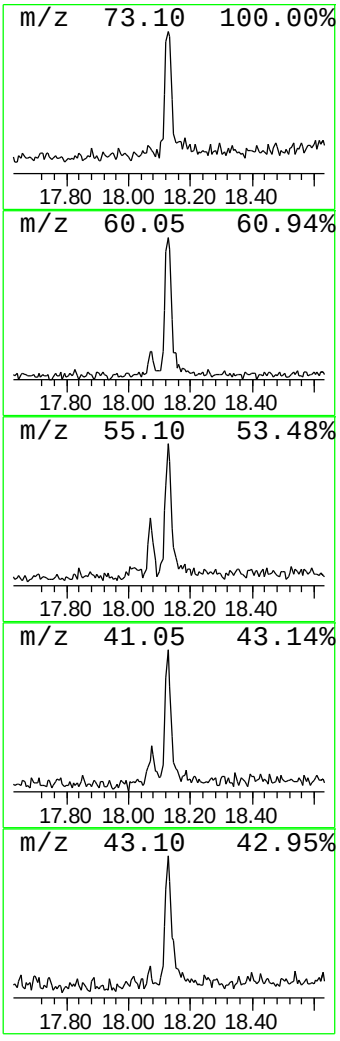
**********

Peak Number 2 Dodecanoic acid Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.13 | 3.98 ng/ul | 551943 | Phenanthrene-d10 | 17.28 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dodecanoic acid | 200 | C12H24O2 | 000143-07-7 | 52 |
| 2 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 50 |
| 3 | Dodecanoic acid | 200 | C12H24O2 | 000143-07-7 | 50 |
| 4 | Dodecanoic acid | 200 | C12H24O2 | 000143-07-7 | 46 |
| 5 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 45 |



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061017\
Data File : BM010483.D
Acq On : 10 Jun 2017 13:46
Operator : SJ/MA
Sample : I3521-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5C18

Quant Method : Z:\HPCHEM1\BNA_M\Methods\SOM-EPA-BM052717.M
Quant Title : SVOA CALIBRATION

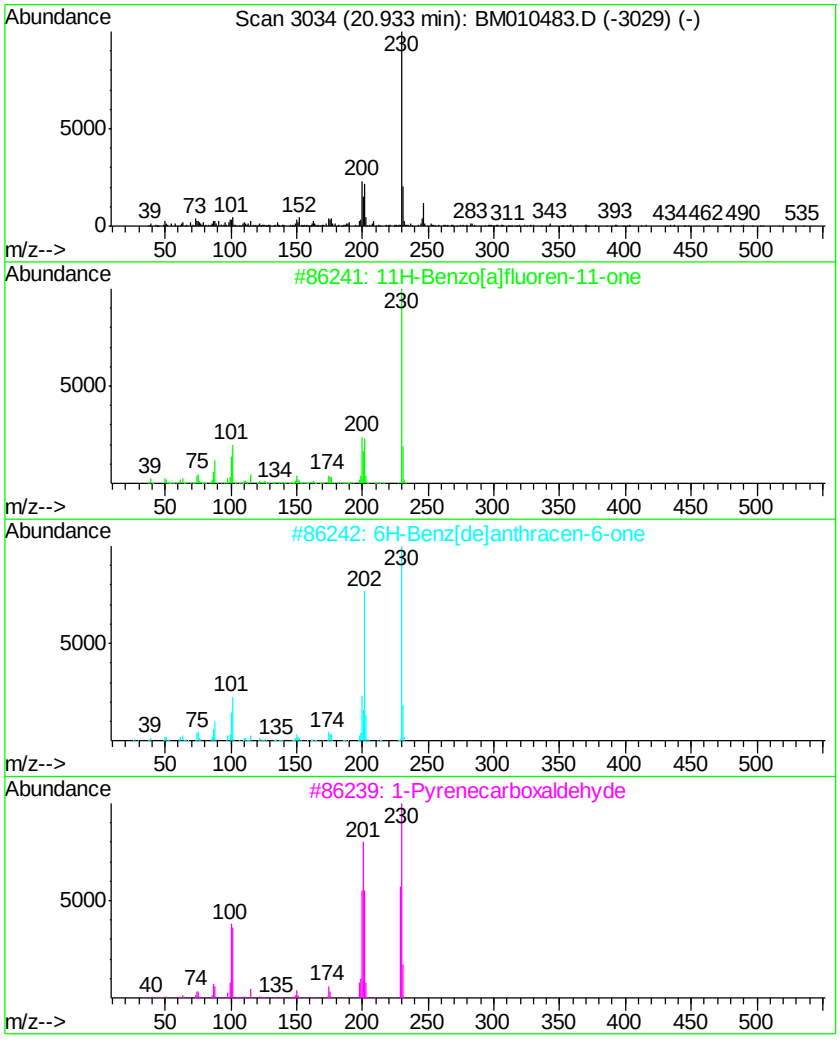
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

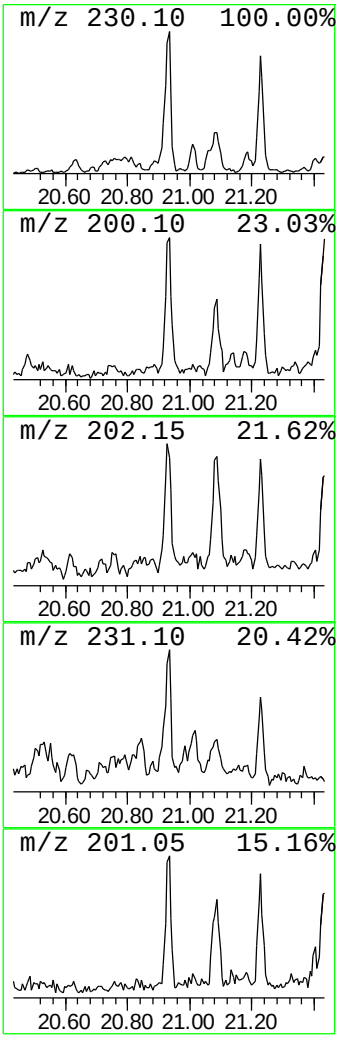
**********

Peak Number 3 11H-Benzo[a]fluoren-11-one Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.93 | 2.13 ng/ul | 736554 | Chrysene-d12 | 21.45 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[a]fluoren-11-one | 230 | C17H10O | 000479-79-8 | 91 |
| 2 | 6H-Benz[de]anthracen-6-one | 230 | C17H10O | 080252-14-8 | 86 |
| 3 | 1-Pyrenecarboxaldehyde | 230 | C17H10O | 003029-19-4 | 72 |
| 4 | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 70 |
| 5 | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 59 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061017\
Data File : BM010483.D
Acq On : 10 Jun 2017 13:46
Operator : SJ/MA
Sample : I3521-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5C18

Quant Method : Z:\HPCHEM1\BNA_M\Methods\SOM-EPA-BM052717.M
Quant Title : SVOA CALIBRATION

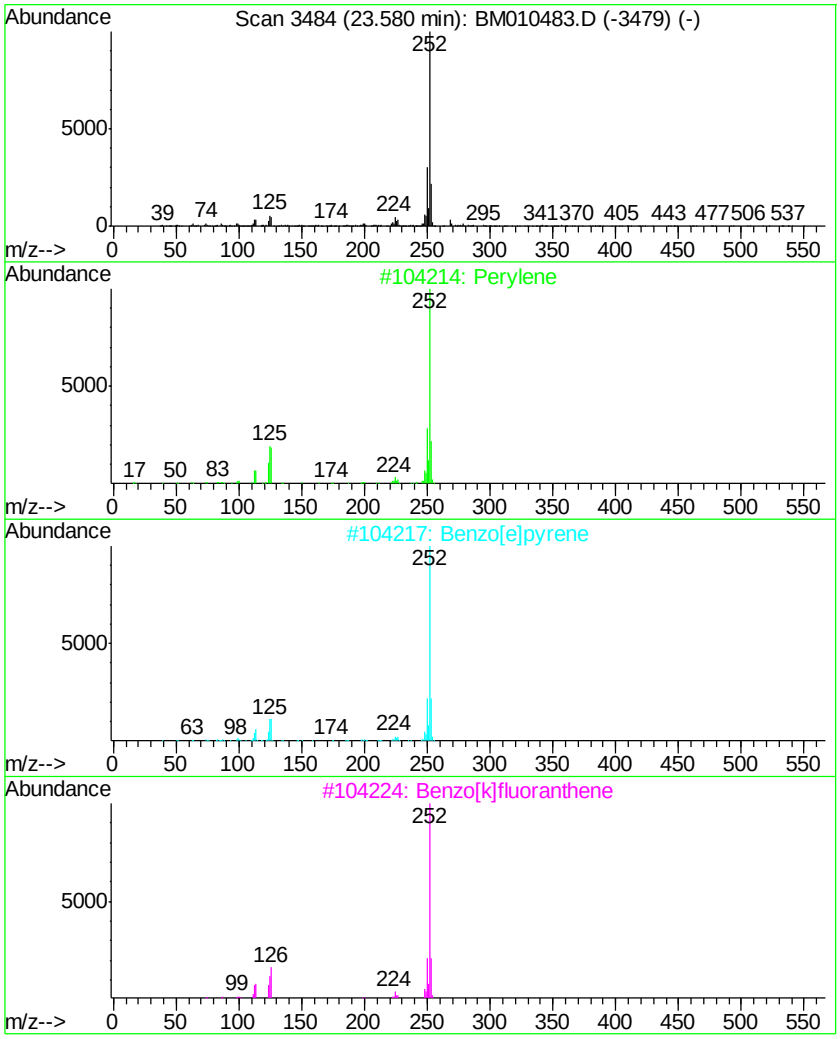
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

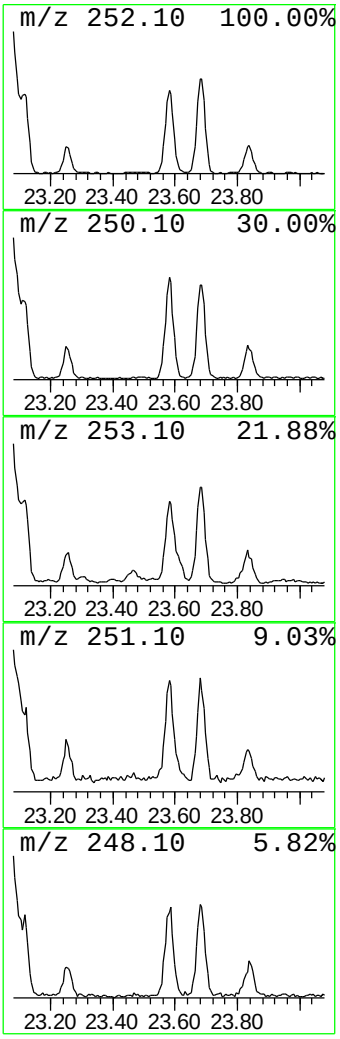
**********

Peak Number 4 Perylene Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 23.58 | 15.75 ng/ul | 2711450 | Perylene-d12 | 23.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Perylene | 252 | C20H12 | 000198-55-0 | 90 |
| 2 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 90 |
| 3 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 90 |
| 4 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 81 |
| 5 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 81 |



# Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061017\
Data File : BM010483.D
Acq On : 10 Jun 2017 13:46
Operator : SJ/MA
Sample : I3521-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5C18

Quant Method : Z:\HPCHEM1\BNA_M\Methods\SOM-EPA-BM052717.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 |
| unknown-01 | 15.91 | 2.8 | ng/ul | 389890 | 4 | 17.28 | 2772560 | 20.0 |
| Dodecanoic acid | 18.13 | 4.0 | ng/ul | 551943 | 4 | 17.28 | 2772560 | 20.0 |
| 11H-Benzo[a]fluor... | 20.93 | 2.1 | ng/ul | 736554 | 5 | 21.45 | 6906580 | 20.0 |
| Perylene | 23.58 | 15.8 | ng/ul | 2711450 | 6 | 23.79 | 3443540 | 20.0 |