LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM042018\
Data File : BM014772.D
Acq On : 20 Apr 2018 20:31
Operator : SJ/JU
Sample : J2434-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AC8

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-BM041918.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 | 3.322 | 4 | 6 | 10 | rVB | 426024 | 448043 | 1.54% | 0.145% |
| 2 | 3.369 | 10 | 14 | 20 | rVV | 621633 | 853669 | 2.93% | 0.276% |
| 3 | 4.263 | 162 | 166 | 176 | rVB | 363242 | 528539 | 1.81% | 0.171% |
| 4 | 7.663 | 737 | 744 | 759 | rVB2 | 1287877 | 2503610 | 8.58% | 0.809% |
| 5 | 7.845 | 767 | 775 | 783 | rBV | 1009844 | 1614762 | 5.53% | 0.522% |
| 6 | 8.063 | 804 | 812 | 819 | rBV | 1316877 | 2169740 | 7.44% | 0.701% |
| 7 | 8.545 | 887 | 894 | 906 | rVB | 1232491 | 2052342 | 7.03% | 0.663% |
| 8 | 9.239 | 1005 | 1012 | 1020 | rBV | 1468314 | 2380650 | 8.16% | 0.769% |
| 9 | 9.722 | 1086 | 1094 | 1102 | rBV | 1204161 | 2115156 | 7.25% | 0.684% |
| 10 | 10.457 | 1206 | 1219 | 1228 | rBV | 960982 | 1682931 | 5.77% | 0.544% |
| 11 | 10.992 | 1303 | 1310 | 1319 | rBV | 1611201 | 2717126 | 9.31% | 0.878% |
| 12 | 11.392 | 1370 | 1378 | 1384 | rBV | 1611904 | 2865124 | 9.82% | 0.926% |
| 13 | 11.510 | 1391 | 1398 | 1418 | rBV | 1114999 | 2101802 | 7.20% | 0.679% |
| 14 | 14.533 | 1905 | 1912 | 1916 | rBV | 2691197 | 3694516 | 12.66% | 1.194% |
| 15 | 14.580 | 1916 | 1920 | 1925 | rVB | 630131 | 893809 | 3.06% | 0.289% |
| 16 | 14.845 | 1958 | 1965 | 1978 | rBV | 3213835 | 4894330 | 16.77% | 1.582% |
| 17 | 15.145 | 2009 | 2016 | 2022 | rBV2 | 2257126 | 3452196 | 11.83% | 1.116% |
| 18 | 15.204 | 2022 | 2026 | 2032 | rVB | 227119 | 343780 | 1.18% | 0.111% |
| 19 | 15.298 | 2034 | 2042 | 2051 | rBV | 955768 | 1453959 | 4.98% | 0.470% |
| 20 | 15.933 | 2145 | 2150 | 2155 | rVB | 272304 | 380736 | 1.30% | 0.123% |
| 21 | 16.121 | 2175 | 2182 | 2187 | rBV | 3868926 | 5557048 | 19.04% | 1.796% |
| 22 | 16.221 | 2194 | 2199 | 2204 | rVB | 424480 | 594098 | 2.04% | 0.192% |
| 23 | 16.333 | 2209 | 2218 | 2229 | rVB4 | 102172 | 316685 | 1.09% | 0.102% |
| 24 | 16.780 | 2290 | 2294 | 2308 | rBV | 257138 | 496572 | 1.70% | 0.160% |
| 25 | 17.856 | 2470 | 2477 | 2480 | rBV | 2668876 | 3853917 | 13.21% | 1.246% |
| 26 | 17.898 | 2480 | 2484 | 2489 | rVV | 2610142 | 3722332 | 12.76% | 1.203% |
| 27 | 17.951 | 2489 | 2493 | 2498 | rVV2 | 3947529 | 5907623 | 20.25% | 1.909% |
| 28 | 17.986 | 2498 | 2499 | 2504 | rVB | 519114 | 462420 | 1.58% | 0.149% |
| 29 | 18.245 | 2536 | 2543 | 2548 | rBV2 | 474105 | 769975 | 2.64% | 0.249% |
| 30 | 18.680 | 2612 | 2617 | 2620 | rBV | 987747 | 1312265 | 4.50% | 0.424% |
| 31 | 18.709 | 2620 | 2622 | 2626 | rVV | 411370 | 513191 | 1.76% | 0.166% |
| 32 | 18.756 | 2626 | 2630 | 2637 | rVB2 | 677889 | 1010086 | 3.46% | 0.326% |
| 33 | 18.909 | 2649 | 2656 | 2659 | rBV3 | 657525 | 1210934 | 4.15% | 0.391% |
| 34 | 19.192 | 2699 | 2704 | 2707 | rBV | 252819 | 350491 | 1.20% | 0.113% |

LSC Area Percent Report

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Operator : SJ/JU
Sample : J2434-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AC8

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-BM041918.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 19.592 | 2768 | 2772 | 2778 | rVV | 170975 | 323648 | 1.11% | 0.105% |
| 36 | 19.739 | 2792 | 2797 | 2800 | rBV2 | 233877 | 408331 | 1.40% | 0.132% |
| 37 | 19.862 | 2812 | 2818 | 2823 | rVB | 11162028 | 14741404 | 50.52% | 4.764% |
| 38 | 19.921 | 2823 | 2828 | 2831 | rBV2 | 510506 | 716641 | 2.46% | 0.232% |
| 39 | 20.103 | 2856 | 2859 | 2867 | rVB | 306927 | 492813 | 1.69% | 0.159% |
| 40 | 20.192 | 2867 | 2874 | 2876 | rBV2 | 5630876 | 9617824 | 32.96% | 3.108% |
| 41 | 20.221 | 2876 | 2879 | 2885 | rVV | 11181891 | 14119489 | 48.39% | 4.563% |
| 42 | 20.274 | 2885 | 2888 | 2895 | rVB | 434762 | 605874 | 2.08% | 0.196% |
| 43 | 20.386 | 2903 | 2907 | 2912 | rVB | 663209 | 802284 | 2.75% | 0.259% |
| 44 | 20.450 | 2913 | 2918 | 2924 | rVB | 856666 | 1213936 | 4.16% | 0.392% |
| 45 | 20.527 | 2925 | 2931 | 2936 | rBV3 | 776793 | 1743167 | 5.97% | 0.563% |
| 46 | 20.580 | 2936 | 2940 | 2945 | rBV | 339343 | 402155 | 1.38% | 0.130% |
| 47 | 20.692 | 2946 | 2959 | 2964 | rBV | 2390221 | 5009404 | 17.17% | 1.619% |
| 48 | 20.786 | 2971 | 2975 | 2979 | rBV | 1810600 | 2448635 | 8.39% | 0.791% |
| 49 | 20.850 | 2979 | 2986 | 2989 | rVV2 | 1031208 | 1787503 | 6.13% | 0.578% |
| 50 | 20.880 | 2989 | 2991 | 2995 | rVB | 376938 | 391697 | 1.34% | 0.127% |
| 51 | 20.986 | 3005 | 3009 | 3013 | rBV | 1116562 | 1489189 | 5.10% | 0.481% |
| 52 | 21.033 | 3013 | 3017 | 3023 | rVB | 1064528 | 1572670 | 5.39% | 0.508% |
| 53 | 21.262 | 3053 | 3056 | 3058 | rBV4 | 298868 | 353747 | 1.21% | 0.114% |
| 54 | 21.374 | 3072 | 3075 | 3079 | rBV3 | 376592 | 599529 | 2.05% | 0.194% |
| 55 | 21.421 | 3079 | 3083 | 3089 | rVB | 832574 | 1372517 | 4.70% | 0.444% |
| 56 | 21.586 | 3107 | 3111 | 3114 | rBV2 | 1401339 | 1883909 | 6.46% | 0.609% |
| 57 | 21.621 | 3114 | 3117 | 3120 | rVB | 1174838 | 1420913 | 4.87% | 0.459% |
| 58 | 21.668 | 3120 | 3125 | 3129 | rBV2 | 1883088 | 2743328 | 9.40% | 0.887% |
| 59 | 21.803 | 3145 | 3148 | 3155 | rBV2 | 495704 | 1049957 | 3.60% | 0.339% |
| 60 | 21.927 | 3164 | 3169 | 3175 | rBV2 | 11552551 | 20848190 | 71.45% | 6.738% |
| 61 | 21.986 | 3175 | 3179 | 3184 | rVB | 10294492 | 13669009 | 46.85% | 4.418% |
| 62 | 22.109 | 3197 | 3200 | 3206 | rVB | 1339957 | 1886029 | 6.46% | 0.610% |
| 63 | 22.221 | 3216 | 3219 | 3223 | rVB | 1250506 | 1678020 | 5.75% | 0.542% |
| 64 | 22.280 | 3224 | 3229 | 3234 | rBV | 2041204 | 3393645 | 11.63% | 1.097% |
| 65 | 22.538 | 3269 | 3273 | 3278 | rVB | 1520706 | 2312377 | 7.92% | 0.747% |
| 66 | 22.591 | 3279 | 3282 | 3287 | rVB | 1106198 | 1617664 | 5.54% | 0.523% |
| 67 | 22.762 | 3307 | 3311 | 3314 | rBV2 | 972648 | 1597843 | 5.48% | 0.516% |
| 68 | 22.803 | 3315 | 3318 | 3324 | rVB3 | 1278484 | 2140701 | 7.34% | 0.692% |
| 69 | 22.862 | 3324 | 3328 | 3333 | rVB2 | 796177 | 1175993 | 4.03% | 0.380% |
| 70 | 23.691 | 3460 | 3469 | 3474 | rBV | 10753112 | 29178845 | 100.00% | 9.431% |
| 71 | 23.874 | 3495 | 3500 | 3507 | rBV | 1544800 | 2713989 | 9.30% | 0.877% |

LSC Area Percent Report

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Sample : J2434-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AC8

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-BM041918.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 24.021 | 3521 | 3525 | 3533 | rBV2 | 573110 | 1443817 | 4.95% | 0.467% |
| 73 | 24.233 | 3554 | 3561 | 3566 | rBV | 6951604 | 14621898 | 50.11% | 4.726% |
| 74 | 24.291 | 3566 | 3571 | 3574 | rVV2 | 3021084 | 6608346 | 22.65% | 2.136% |
| 75 | 24.344 | 3574 | 3580 | 3589 | rVV | 11153319 | 24374498 | 83.53% | 7.878% |
| 76 | 24.444 | 3593 | 3597 | 3602 | rVV | 1987777 | 4288411 | 14.70% | 1.386% |
| 77 | 24.503 | 3602 | 3607 | 3614 | rVB2 | 3229905 | 6856614 | 23.50% | 2.216% |
| 78 | 27.050 | 4029 | 4040 | 4051 | rVB | 5985487 | 19381946 | 66.42% | 6.264% |
| 79 | 27.862 | 4167 | 4178 | 4198 | rVB | 4782503 | 17082479 | 58.54% | 5.521% |

Sum of corrected areas: 309405335

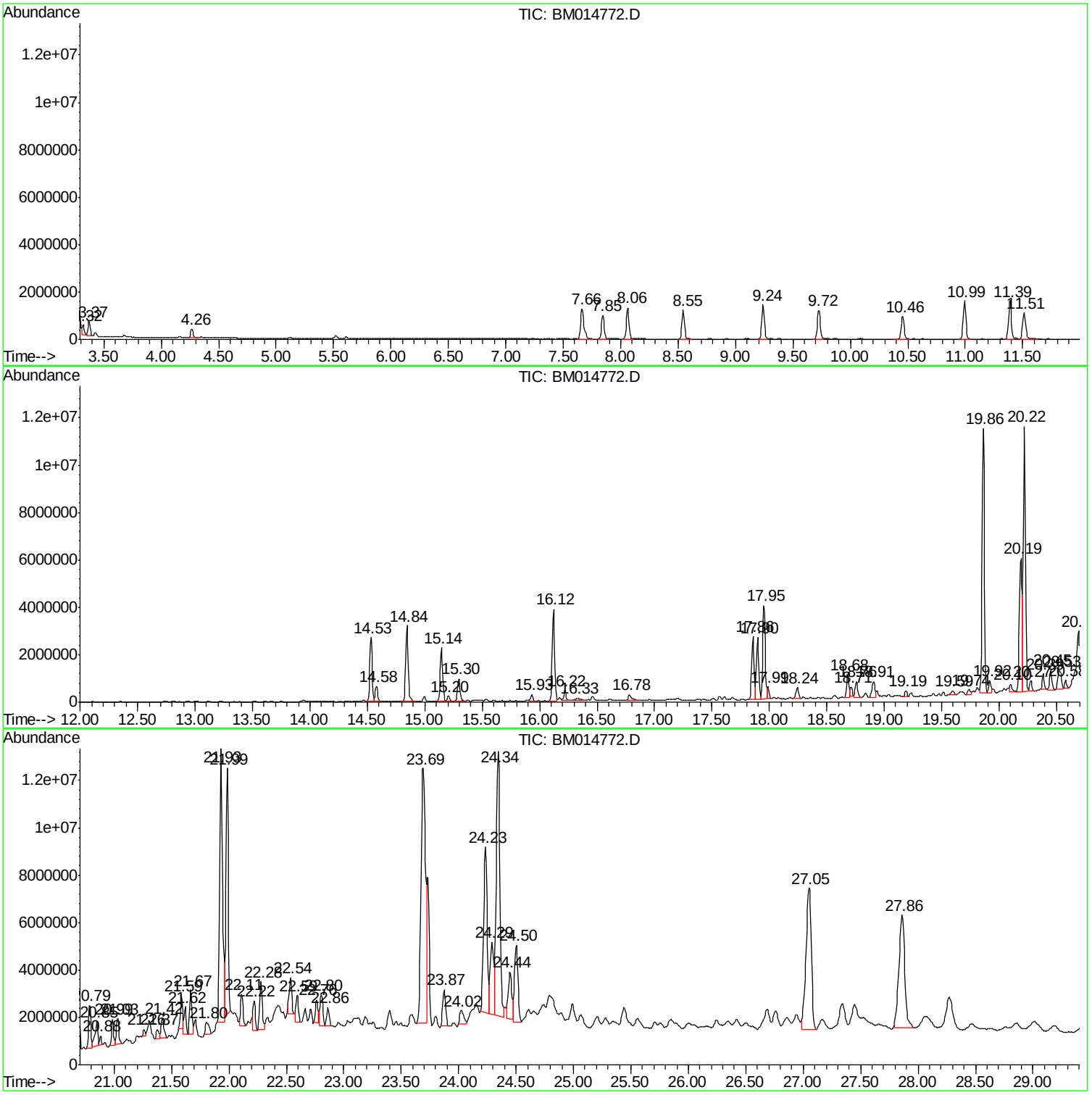
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA M\DATA\BM042018\
Data File : BM014772.D
Acq On : 20 Apr 2018 20:31
Operator : SJ/JU
Sample : J2434-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AC8

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.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\BM042018\
Data File : BM014772.D
Acq On : 20 Apr 2018 20:31
Operator : SJ/JU
Sample : J2434-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AC8

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

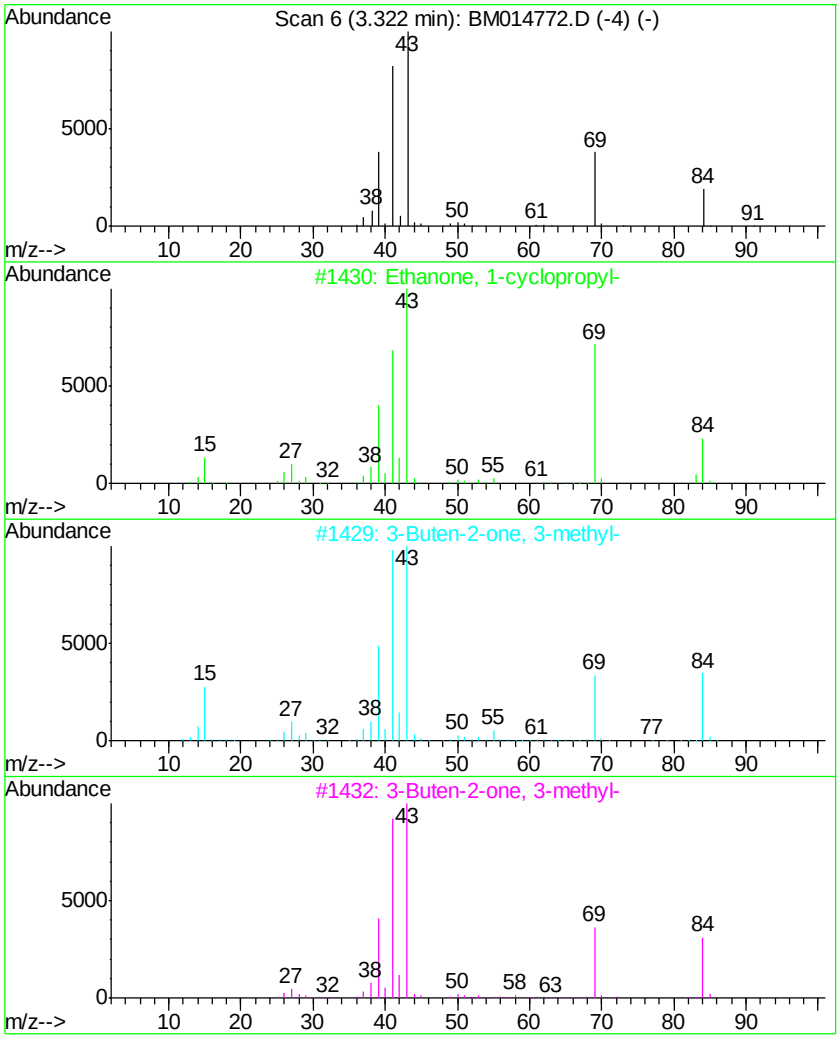
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

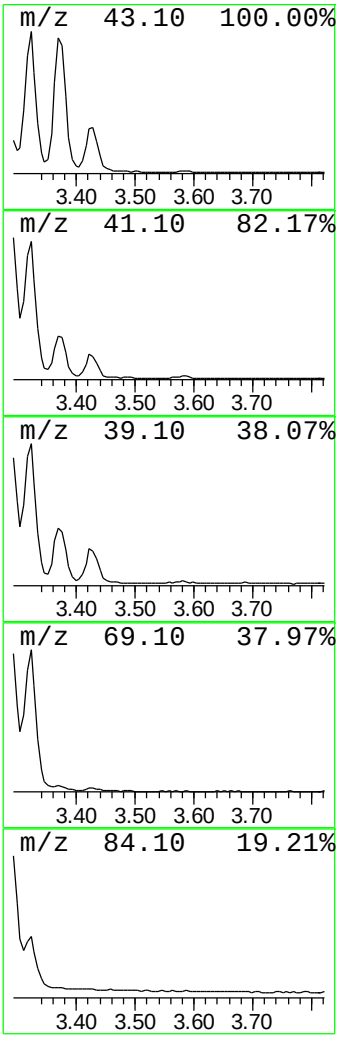
**********

Peak Number 1 Ethanone, 1-cyclopropyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.32 | 4.37 ng/ul | 448043 | 1,4-Dichlorobenzene-d4 | 8.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Ethanone, 1-cyclopropyl- | 84 | C5H8O | 000765-43-5 | 78 |
| 2 | 3-Buten-2-one, 3-methyl- | 84 | C5H8O | 000814-78-8 | 45 |
| 3 | 3-Buten-2-one, 3-methyl- | 84 | C5H8O | 000814-78-8 | 42 |
| 4 | 3-Penten-2-one | 84 | C5H8O | 000625-33-2 | 36 |
| 5 | 2-Butenal | 70 | C4H6O | 004170-30-3 | 28 |



Library Search Compound Report

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Data File : BM014772.D
Acq On : 20 Apr 2018 20:31
Operator : SJ/JU
Sample : J2434-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AC8

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

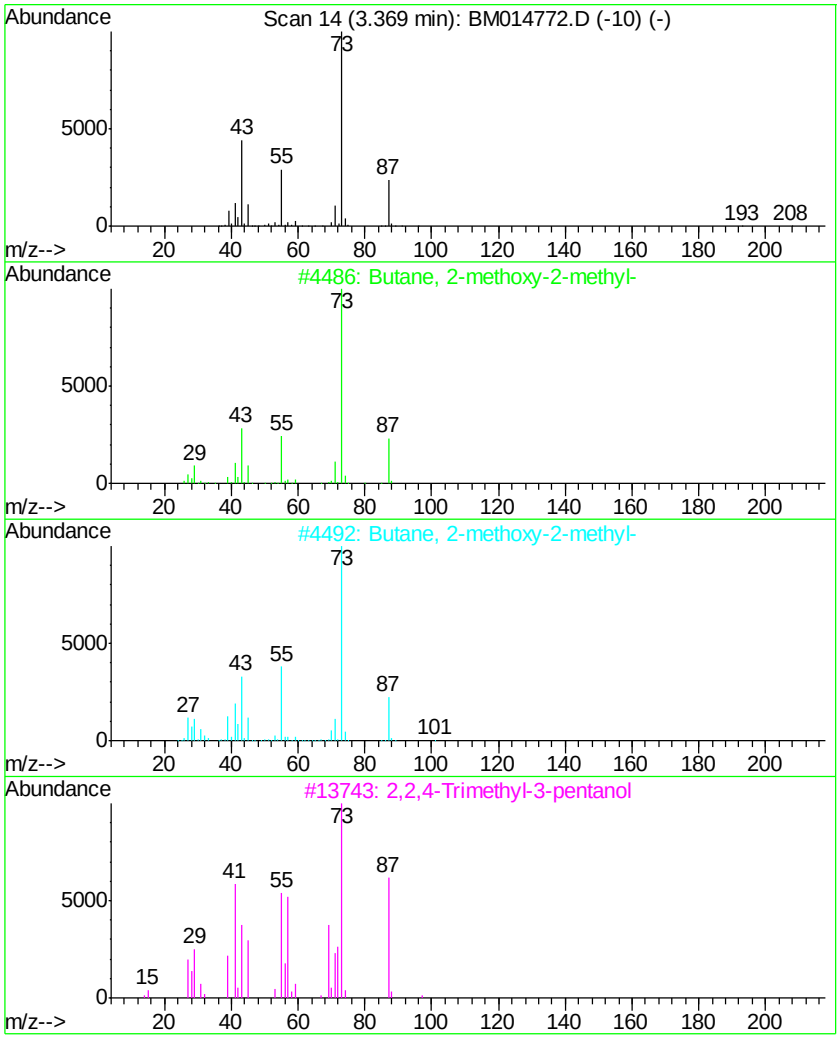
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

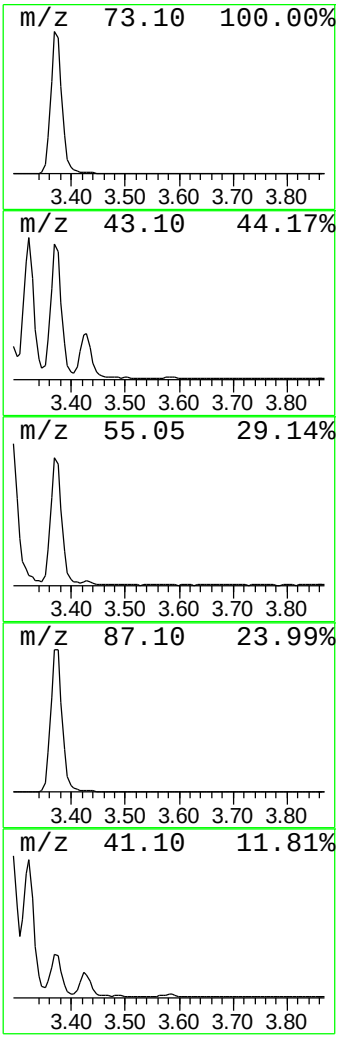
**********

Peak Number 2 Butane, 2-methoxy-2-methyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.37 | 8.32 ng/ul | 853669 | 1,4-Dichlorobenzene-d4 | 8.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methoxy-2-methyl- | 102 | C6H14O | 000994-05-8 | 83 |
| 2 | Butane, 2-methoxy-2-methyl- | 102 | C6H14O | 000994-05-8 | 64 |
| 3 | 2,2,4-Trimethyl-3-pentanol | 130 | C8H18O | 005162-48-1 | 43 |
| 4 | 2,2,4-Trimethyl-3-pentanol | 130 | C8H18O | 005162-48-1 | 40 |
| 5 | Silane, tetramethyl- | 88 | C4H12Si | 000075-76-3 | 38 |



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Sample : J2434-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AC8

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

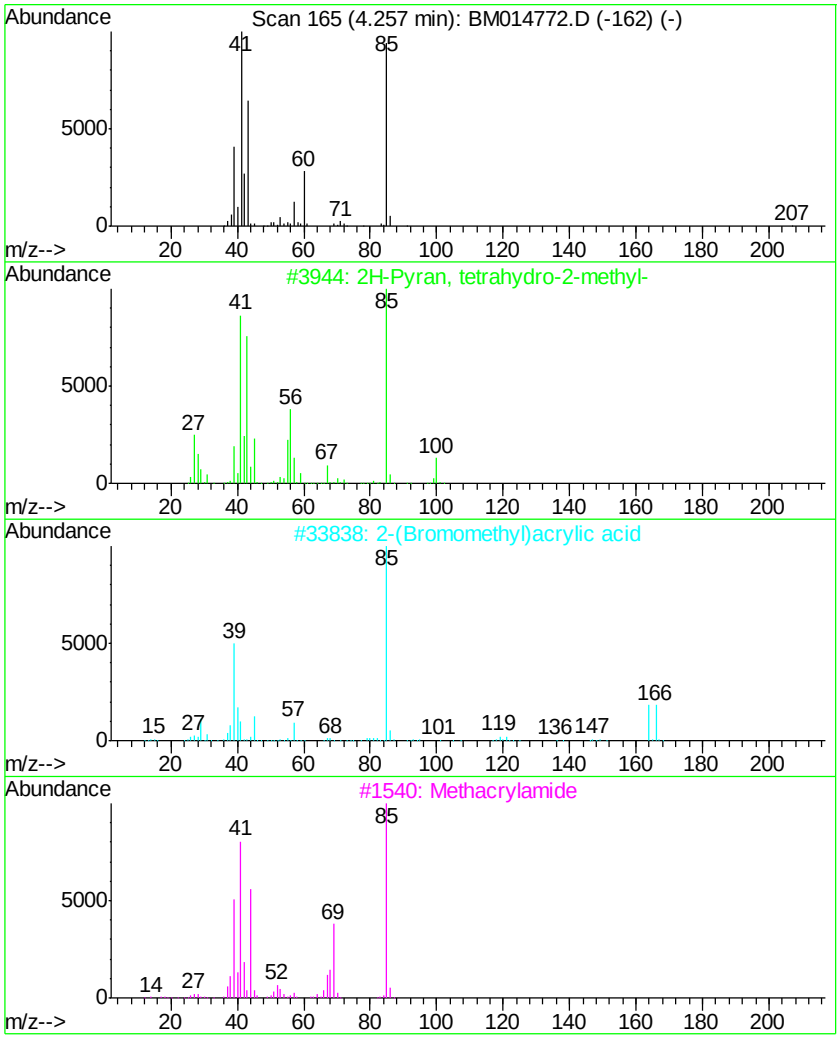
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

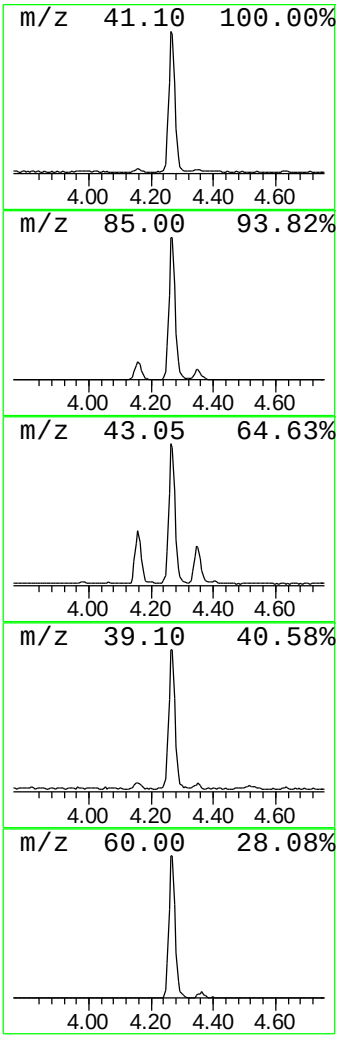
**********

Peak Number 3 2H-Pyran, tetrahydro-2-methyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.26 | 5.15 ng/ul | 528539 | 1,4-Dichlorobenzene-d4 | 8.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2H-Pyran, tetrahydro-2-methyl- | 100 | C6H12O | 010141-72-7 | 50 |
| 2 | 2-(Bromomethyl)acrylic acid | 164 | C4H5BrO2 | 072707-66-5 | 40 |
| 3 | Methacrylamide | 85 | C4H7NO | 000079-39-0 | 38 |
| 4 | 2H-Pyran, tetrahydro-2-methyl- | 100 | C6H12O | 010141-72-7 | 33 |
| 5 | Methacrylamide | 85 | C4H7NO | 000079-39-0 | 28 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM042018\
Data File : BM014772.D
Acq On : 20 Apr 2018 20:31
Operator : SJ/JU
Sample : J2434-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AC8

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

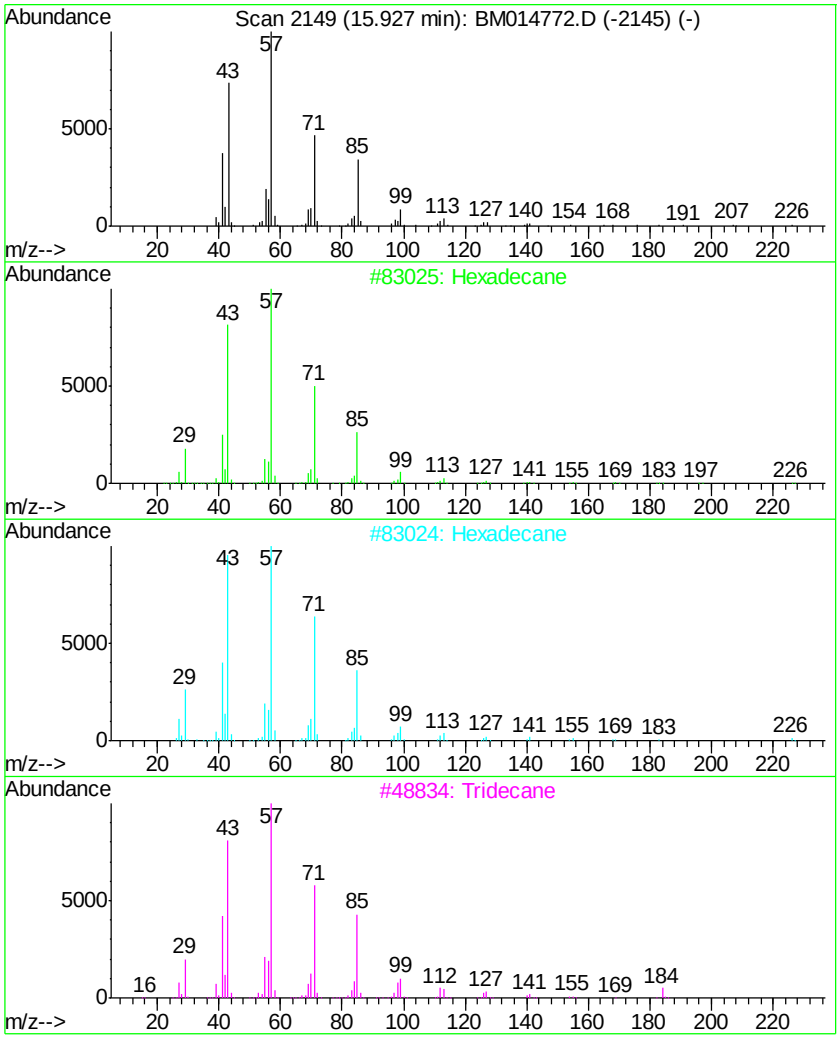
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

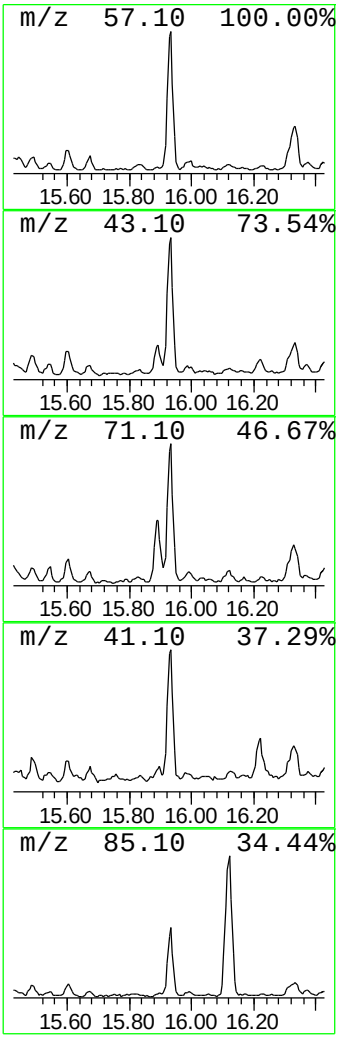
**********

Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.93 | 2.21 ng/ul | 380736 | Acenaphthene-d10 | 15.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecane | 226 | C16H34 | 000544-76-3 | 93 |
| 2 | Hexadecane | 226 | C16H34 | 000544-76-3 | 90 |
| 3 | Tridecane | 184 | C13H28 | 000629-50-5 | 90 |
| 4 | Tetradecane | 198 | C14H30 | 000629-59-4 | 90 |
| 5 | Eicosane | 282 | C20H42 | 000112-95-8 | 86 |



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Data File : BM014772.D
Acq On : 20 Apr 2018 20:31
Operator : SJ/JU
Sample : J2434-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AC8

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

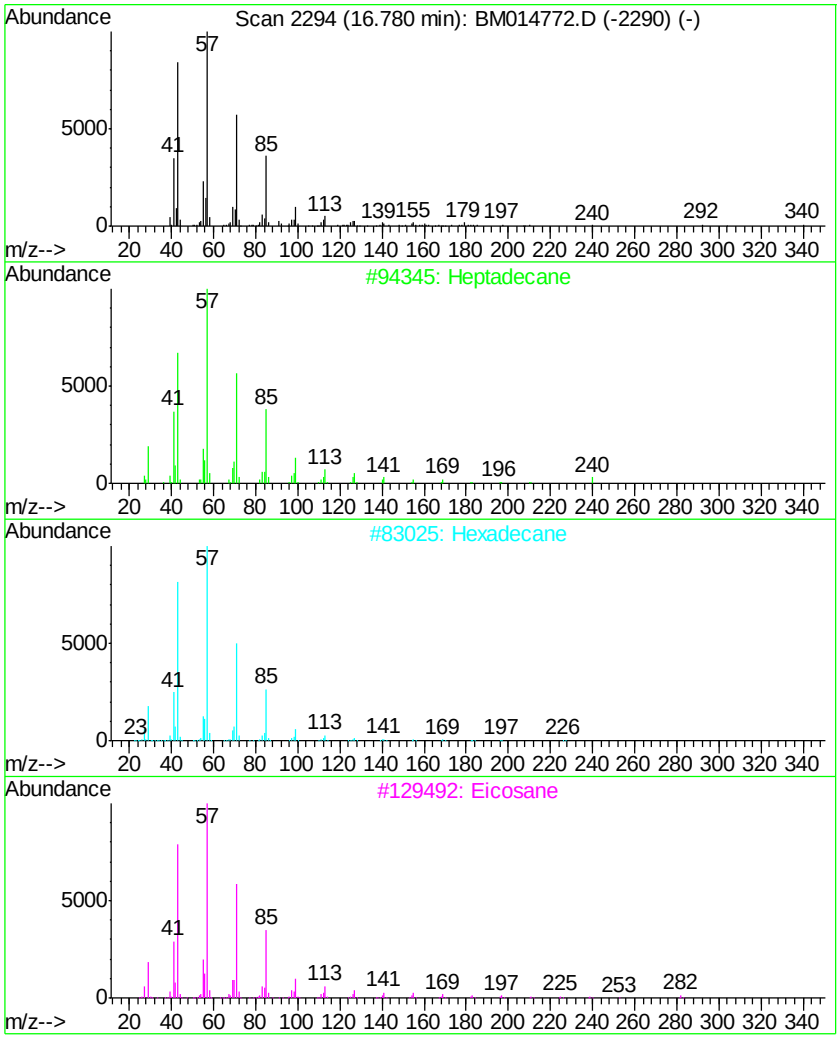
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

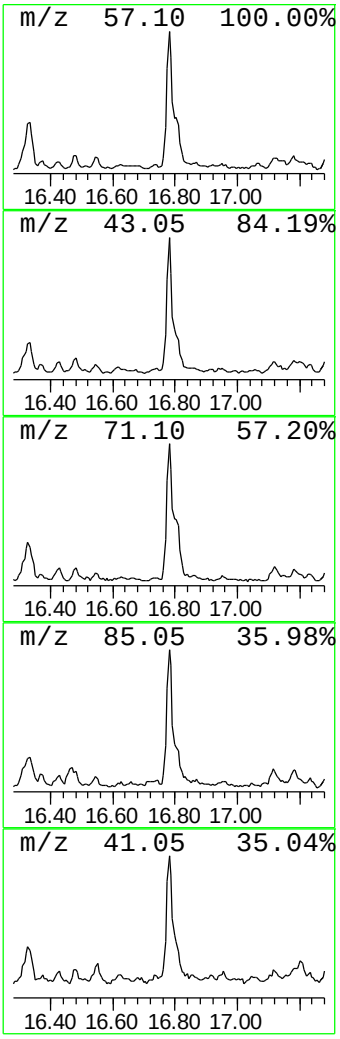
**********

Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.78 | 2.58 ng/ul | 496572 | Phenanthrene-d10 | 17.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptadecane | 240 | C17H36 | 000629-78-7 | 93 |
| 2 | Hexadecane | 226 | C16H34 | 000544-76-3 | 91 |
| 3 | Eicosane | 282 | C20H42 | 000112-95-8 | 86 |
| 4 | Heptadecane | 240 | C17H36 | 000629-78-7 | 86 |
| 5 | Sulfurous acid, 2-ethylhexyl iso... | 278 | C14H30O3S | 1000309-19-0 | 86 |



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Data Path : Z:\HPCHEM1\BNA M\DATA\BM042018\
Data File : BM014772.D
Acq On : 20 Apr 2018 20:31
Operator : SJ/JU
Sample : J2434-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AC8

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

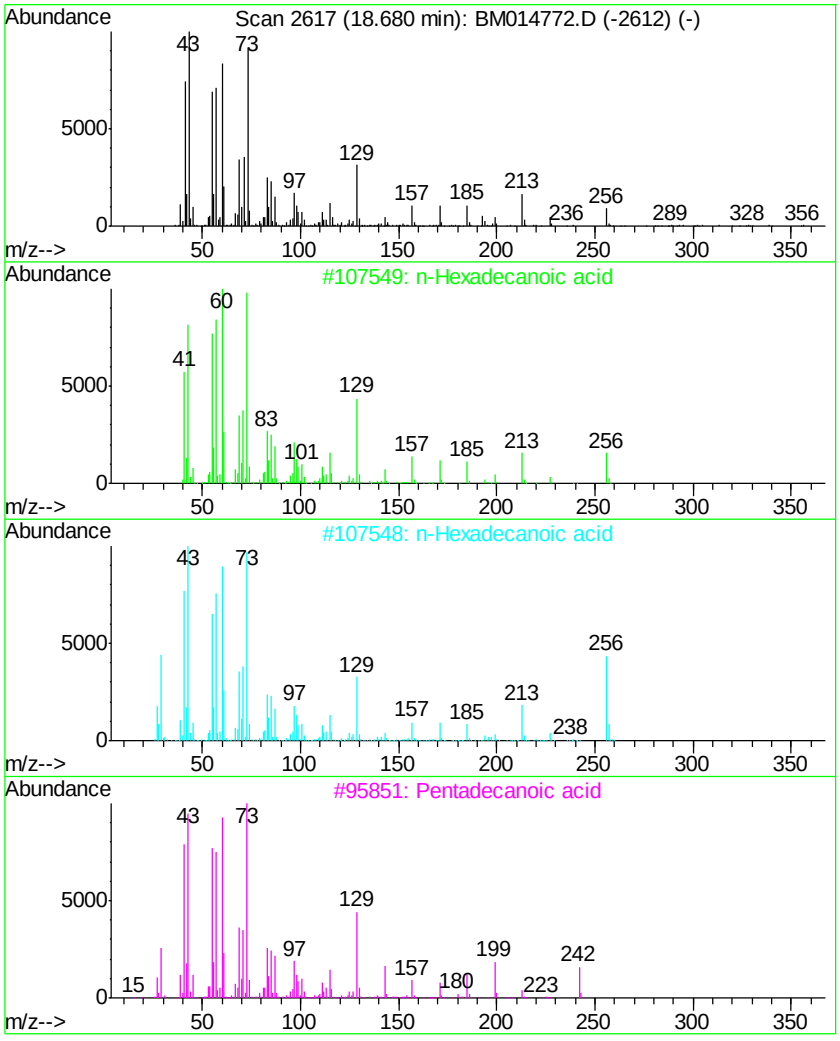
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

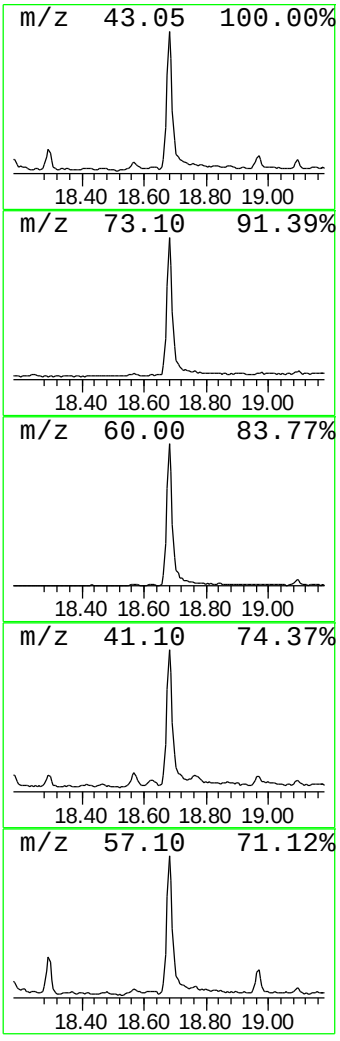
**********

Peak Number 6 n-Hexadecanoic acid Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.68 | 6.81 ng/ul | 1312270 | Phenanthrene-d10 | 17.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99 |
| 2 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 94 |
| 3 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 90 |
| 4 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 90 |
| 5 | Octadecanoic acid | 284 | C18H36O2 | 000057-11-4 | 87 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM042018\
Data File : BM014772.D
Acq On : 20 Apr 2018 20:31
Operator : SJ/JU
Sample : J2434-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AC8

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

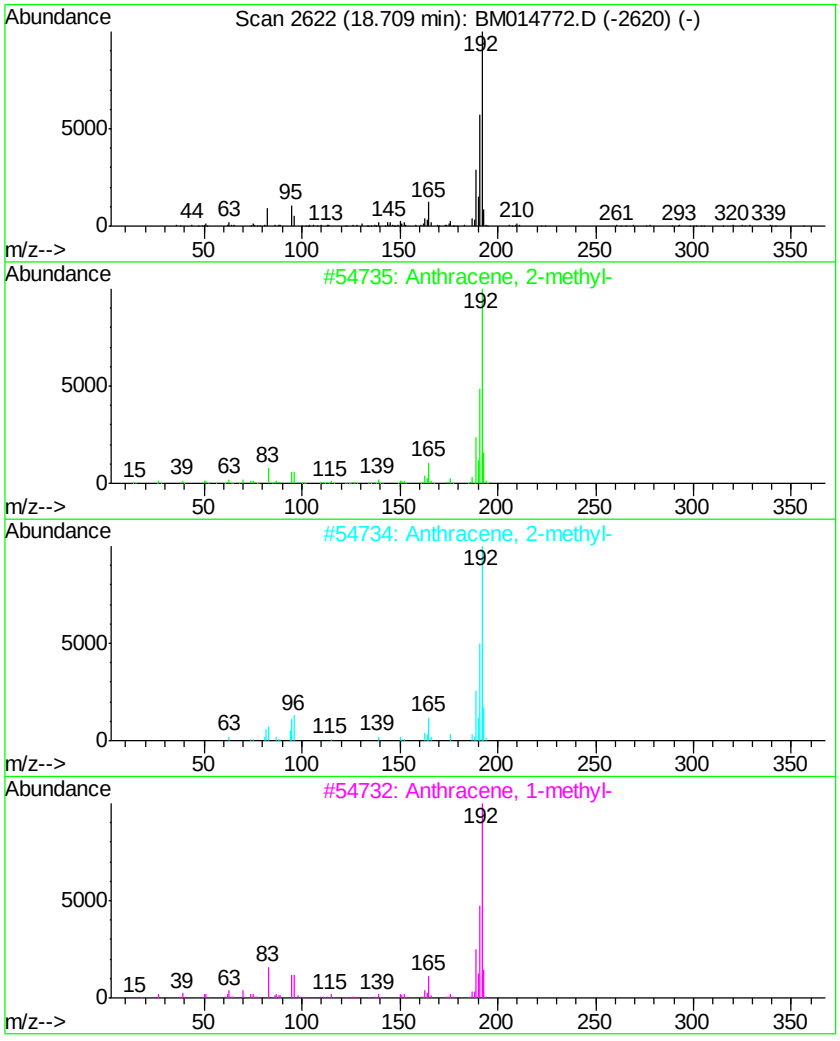
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

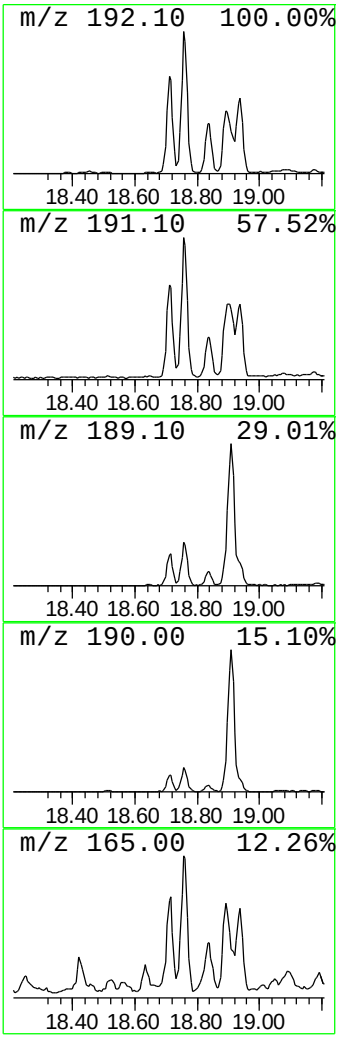
**********

Peak Number 7 Anthracene, 2-methyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.71 | 2.66 ng/ul | 513191 | Phenanthrene-d10 | 17.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 93 |
| 2 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 91 |
| 3 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 91 |
| 4 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 90 |
| 5 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 90 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM042018\
Data File : BM014772.D
Acq On : 20 Apr 2018 20:31
Operator : SJ/JU
Sample : J2434-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AC8

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

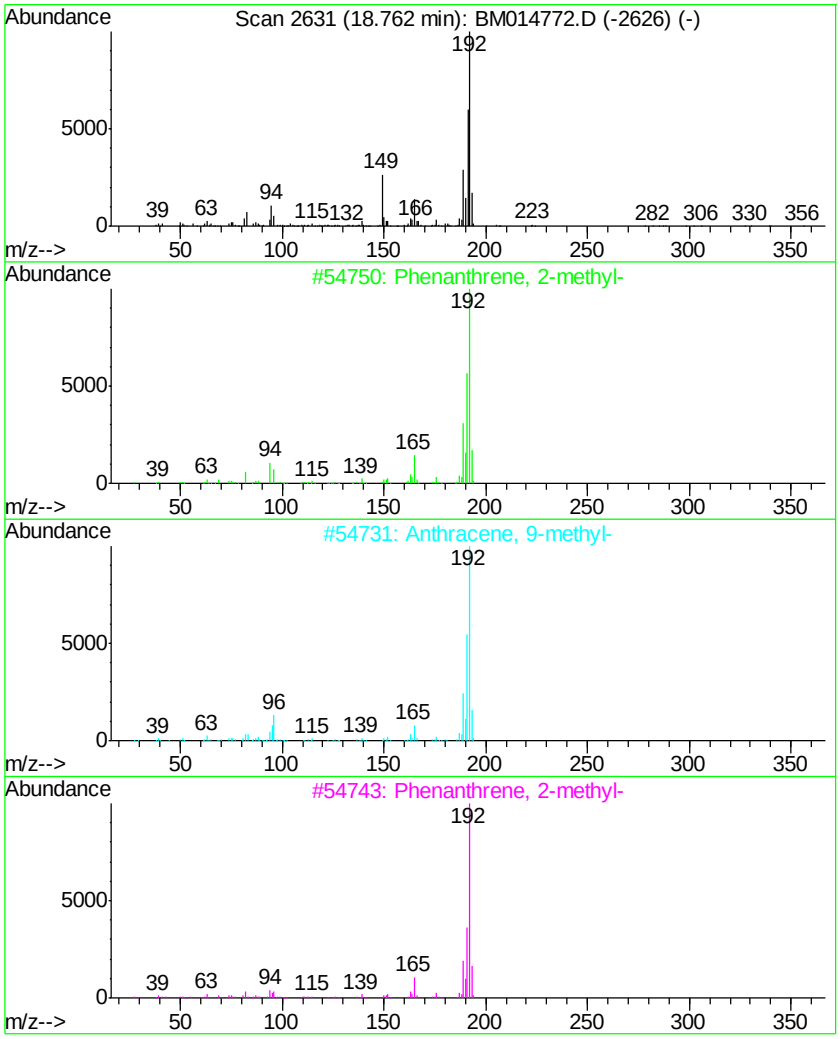
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

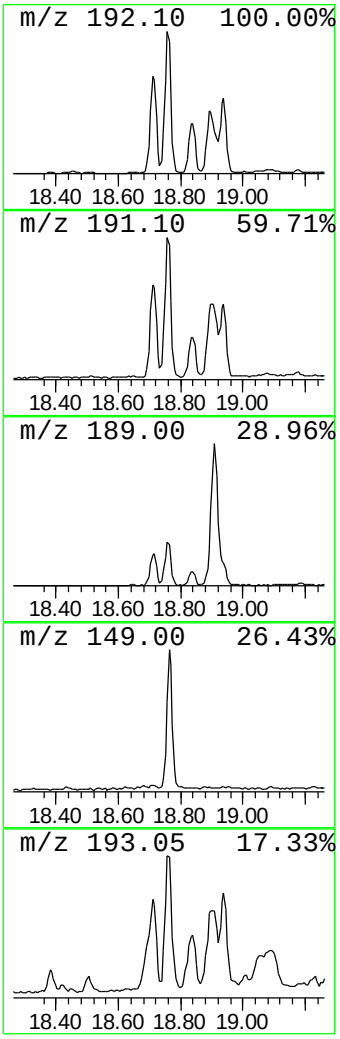
**********

Peak Number 8 Phenanthrene, 2-methyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.76 | 5.24 ng/ul | 1010090 | Phenanthrene-d10 | 17.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 98 |
| 2 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 95 |
| 3 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 95 |
| 4 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 94 |
| 5 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 94 |



# Library Search Compound Report

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Data File : BM014772.D
Acq On : 20 Apr 2018 20:31
Operator : SJ/JU
Sample : J2434-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AC8

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

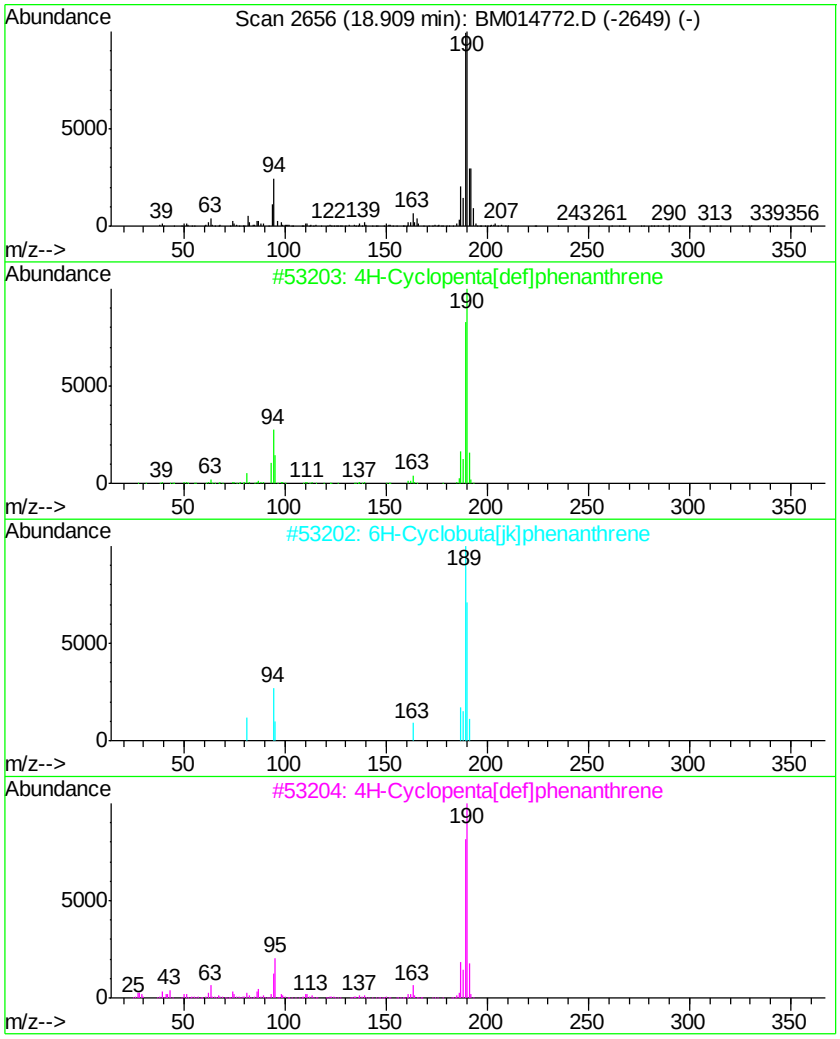
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

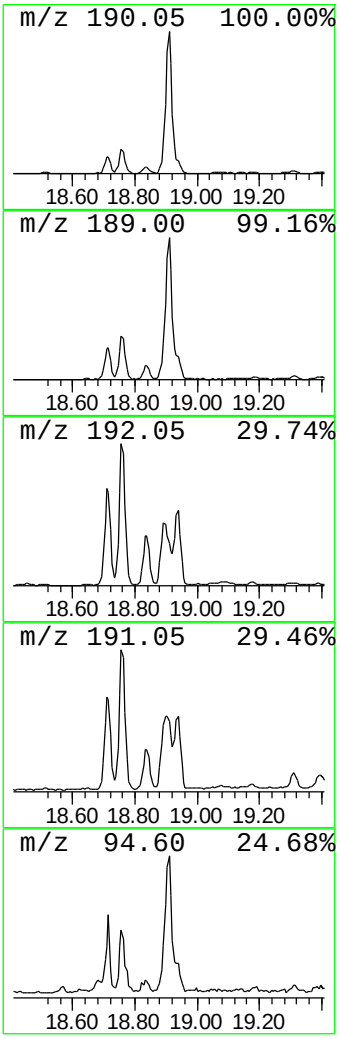
**********

Peak Number 9 4H-Cyclopenta[def]phenanthrene Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.91 | 6.28 ng/ul | 1210930 | Phenanthrene-d10 | 17.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 94 |
| 2 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 64 |
| 3 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 62 |
| 4 | Methyl diselenide | 190 | C2H6Se2 | 007101-31-7 | 49 |
| 5 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 49 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM042018\
Data File : BM014772.D
Acq On : 20 Apr 2018 20:31
Operator : SJ/JU
Sample : J2434-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AC8

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

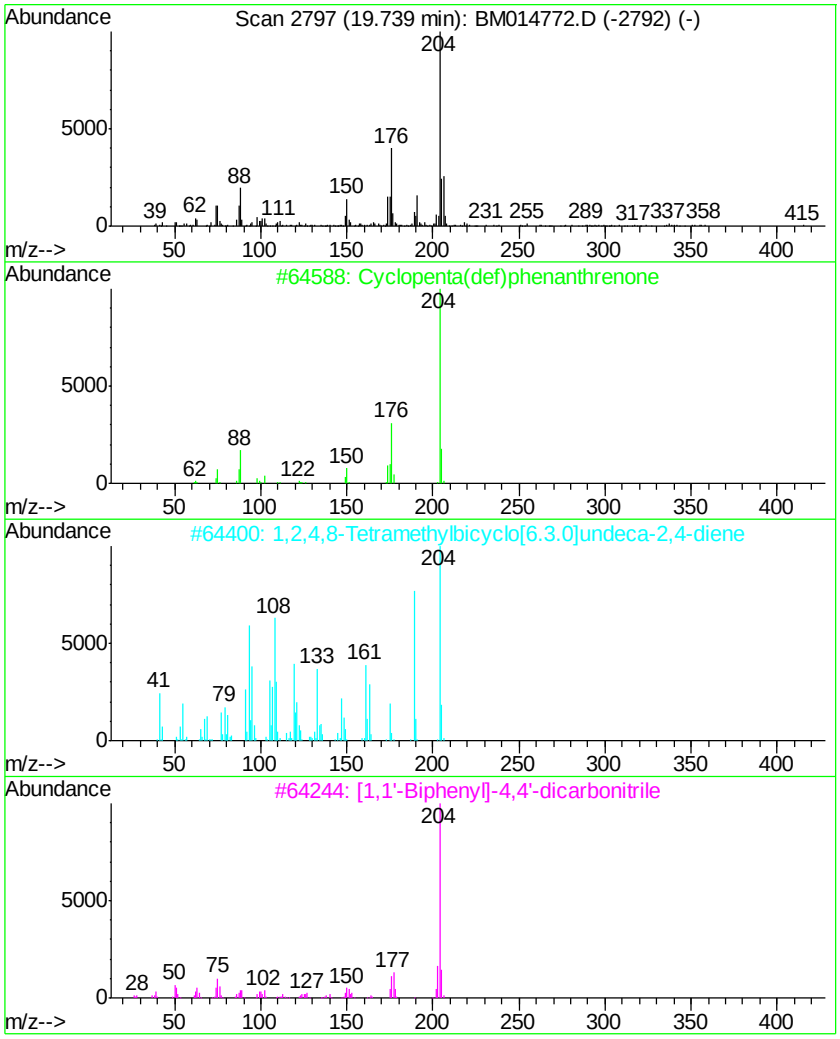
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

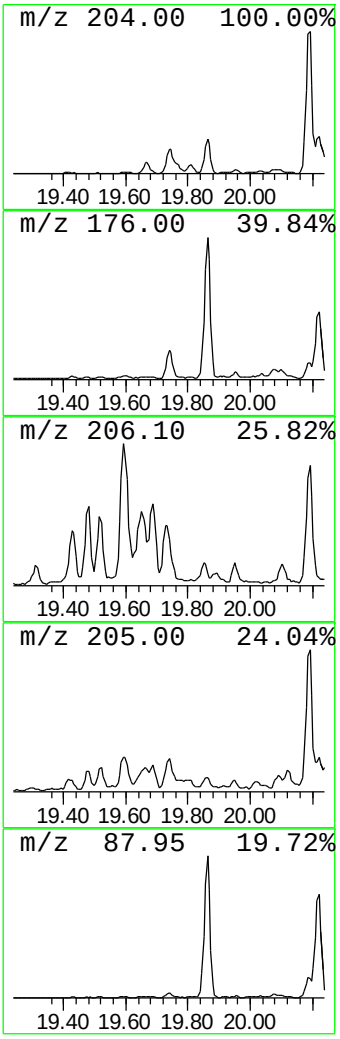
**********

Peak Number 10 Cyclopenta(def)phenanthrenone Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.74 | 2.12 ng/ul | 408331 | Phenanthrene-d10 | 17.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopenta(def)phenanthrenone | 204 | C15H8O | 005737-13-3 | 93 |
| 2 | 1,2,4,8-Tetramethylbicyclo[6.3.0... | 204 | C15H24 | 137235-51-9 | 41 |
| 3 | [1,1'-Biphenyl]-4,4'-dicarbonitrile | 204 | C14H8N2 | 001591-30-6 | 38 |
| 4 | [1,1'-Biphenyl]-2,2'-dicarbonitrile | 204 | C14H8N2 | 004341-02-0 | 37 |
| 5 | [1,1'-Biphenyl]-4-ol, 4'-chloro- | 204 | C12H9ClO | 028034-99-3 | 35 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM042018\
Data File : BM014772.D
Acq On : 20 Apr 2018 20:31
Operator : SJ/JU
Sample : J2434-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AC8

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

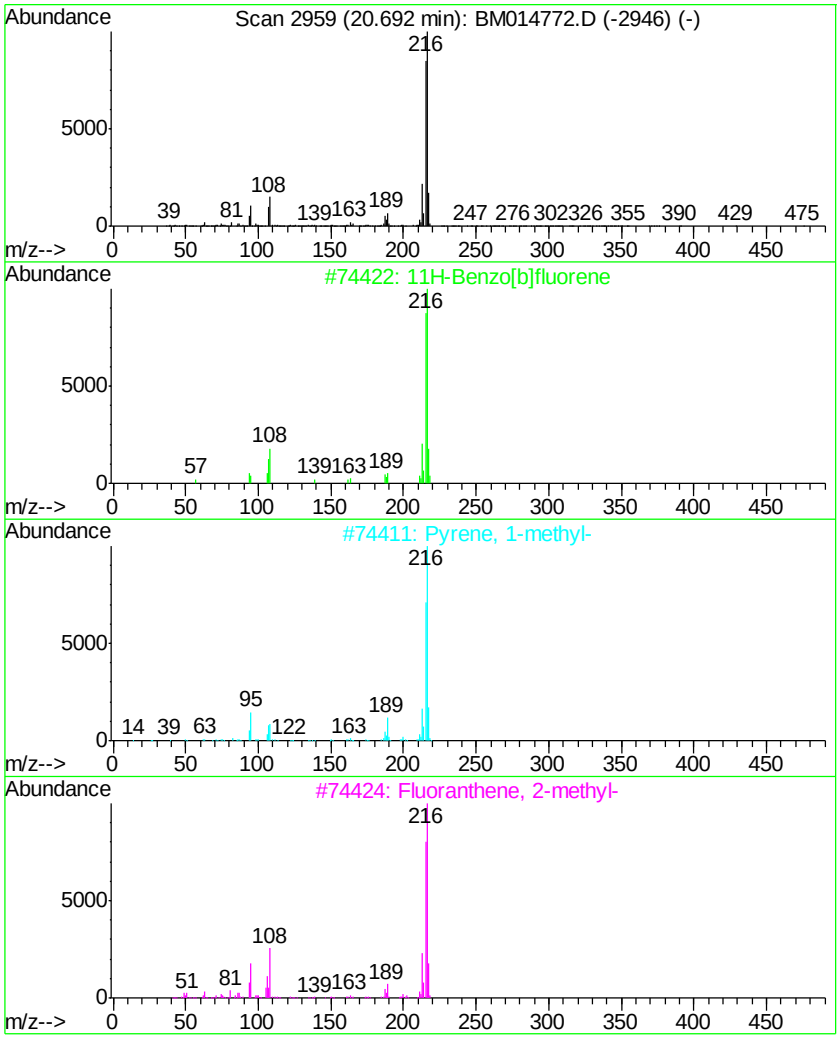
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

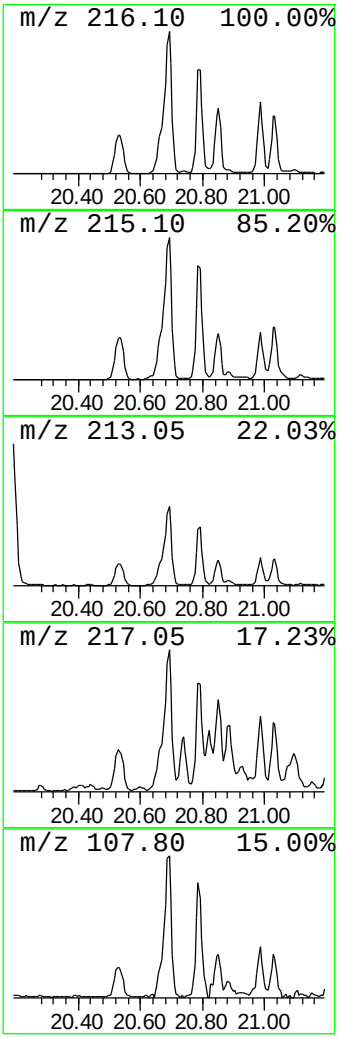
**********

Peak Number 11 11H-Benzo[b]fluorene Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.69 | 4.81 ng/ul | 5009400 | Chrysene-d12 | 21.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 94 |
| 2 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 94 |
| 3 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 91 |
| 4 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 91 |
| 5 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 91 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM042018\
Data File : BM014772.D
Acq On : 20 Apr 2018 20:31
Operator : SJ/JU
Sample : J2434-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AC8

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

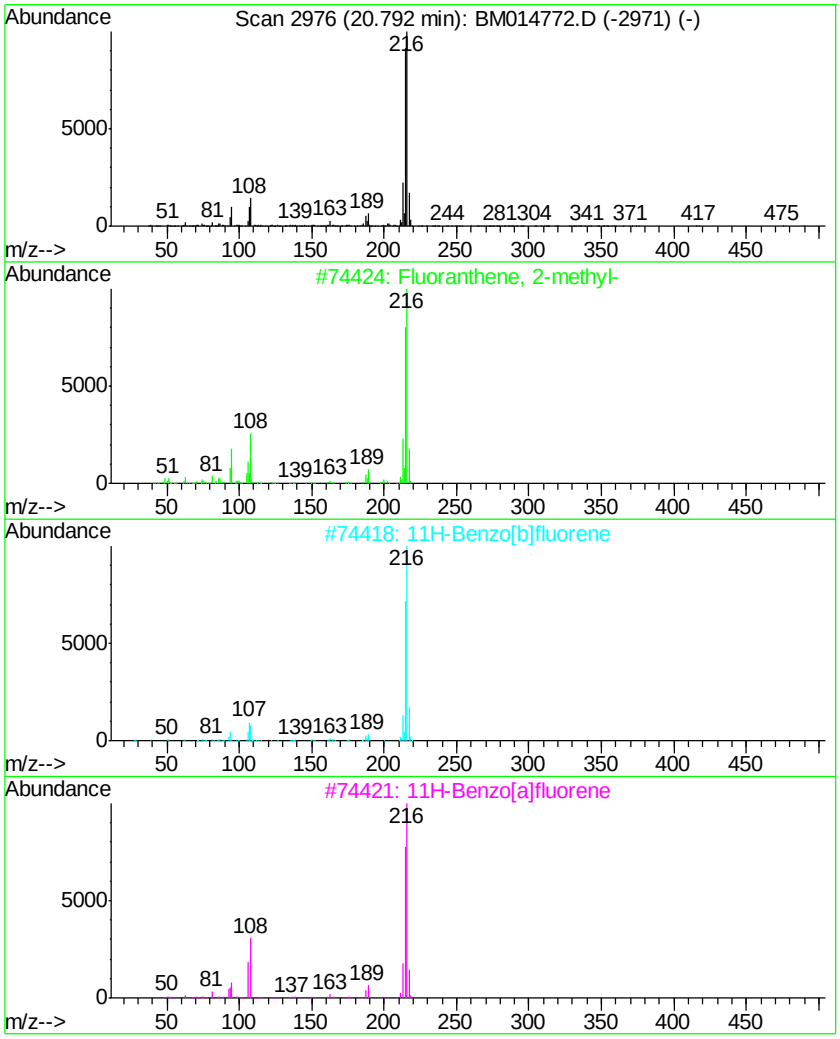
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

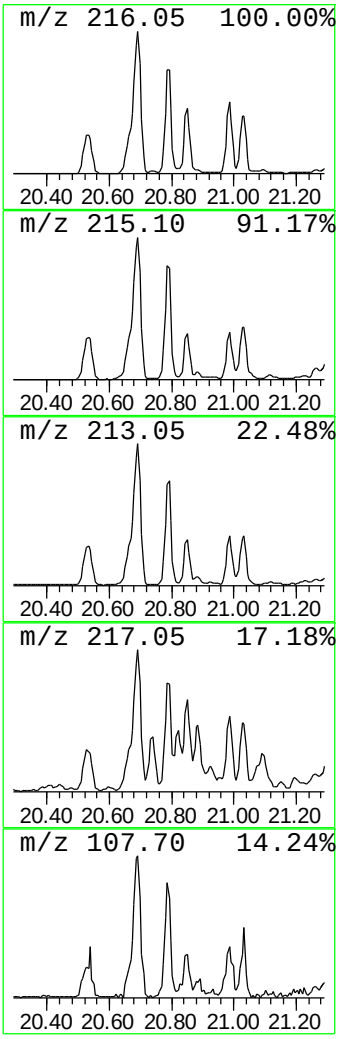
**********

Peak Number 12 Fluoranthene, 2-methyl- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.79 | 2.35 ng/ul | 2448640 | Chrysene-d12 | 21.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 94 |
| 2 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 94 |
| 3 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 87 |
| 4 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 87 |
| 5 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 81 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM042018\
Data File : BM014772.D
Acq On : 20 Apr 2018 20:31
Operator : SJ/JU
Sample : J2434-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AC8

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

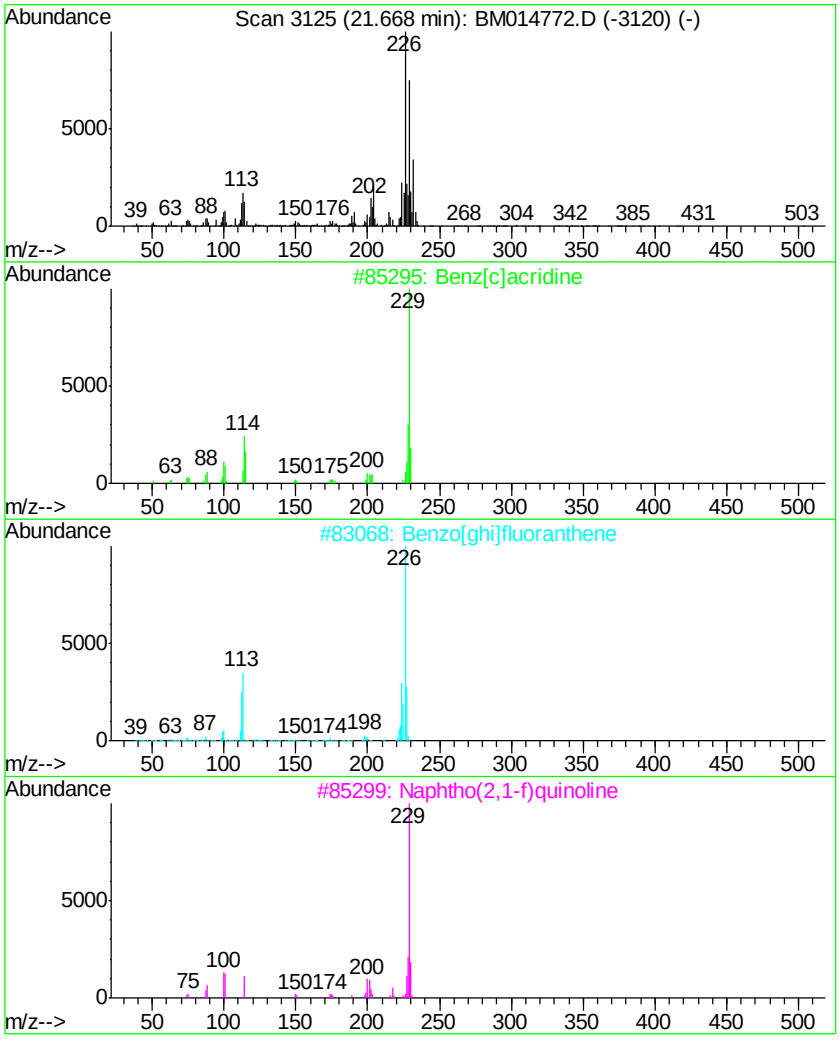
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

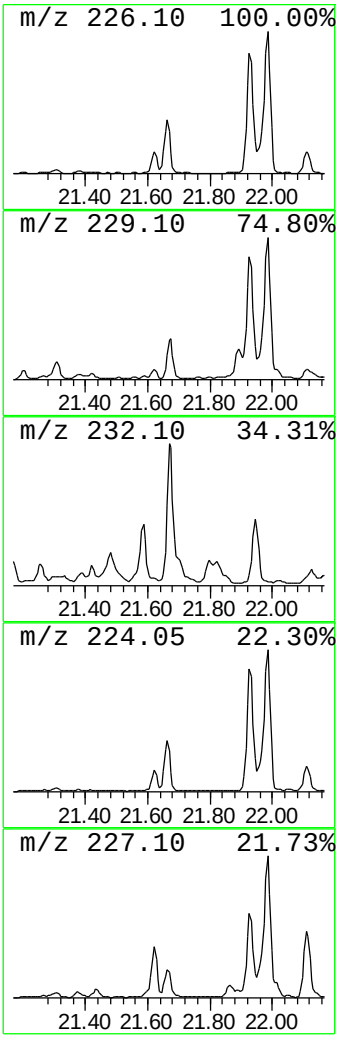
**********

Peak Number 13 unknown-01 Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.67 | 2.63 ng/ul | 2743330 | Chrysene-d12 | 21.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benz[c]acridine | 229 | C17H11N | 000225-51-4 | 42 |
| 2 | Benzo[ghi]fluoranthene | 226 | C18H10 | 000203-12-3 | 38 |
| 3 | Naphtho(2,1-f)quinoline | 229 | C17H11N | 000218-08-6 | 27 |
| 4 | 6,7-Methylenedioxy-thieno(2,3-b)... | 229 | C12H7NO2S | 062638-09-9 | 27 |
| 5 | Naphtho(2,3-h)quinoline | 229 | C17H11N | 000084-56-0 | 27 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM042018\
Data File : BM014772.D
Acq On : 20 Apr 2018 20:31
Operator : SJ/JU
Sample : J2434-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AC8

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

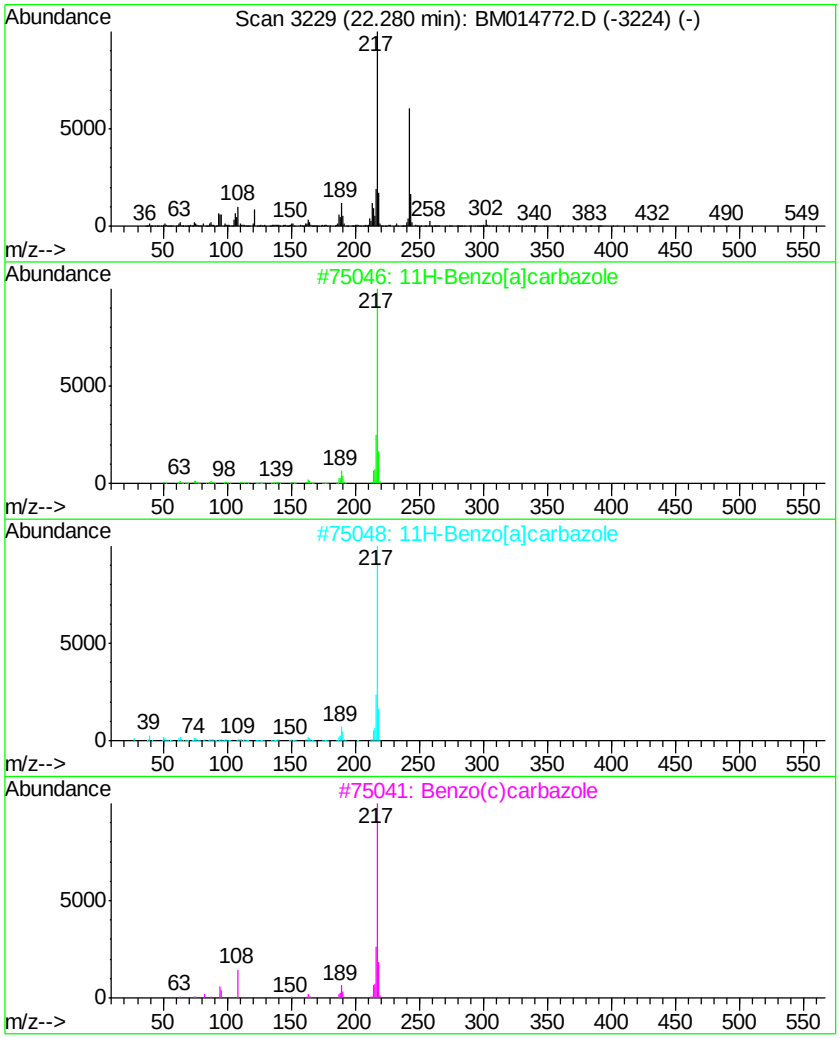
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

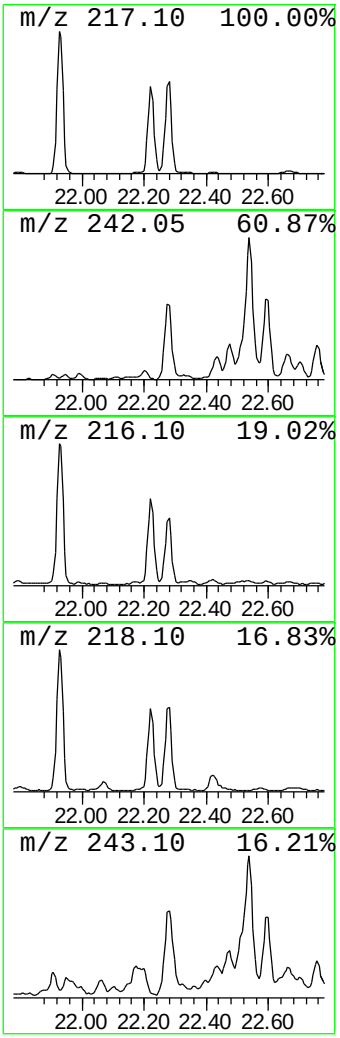
**********

Peak Number 14 11H-Benzo[a]carbazole Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 22.28 | 3.26 ng/ul | 3393650 | Chrysene-d12 | 21.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[a]carbazole | 217 | C16H11N | 000239-01-0 | 83 |
| 2 | 11H-Benzo[a]carbazole | 217 | C16H11N | 000239-01-0 | 78 |
| 3 | Benzo(c)carbazole | 217 | C16H11N | 034777-33-8 | 70 |
| 4 | 7H-Benzo[c]carbazole | 217 | C16H11N | 000205-25-4 | 64 |
| 5 | Benzo(b)carbazole | 217 | C16H11N | 000243-28-7 | 64 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM042018\
Data File : BM014772.D
Acq On : 20 Apr 2018 20:31
Operator : SJ/JU
Sample : J2434-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AC8

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

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

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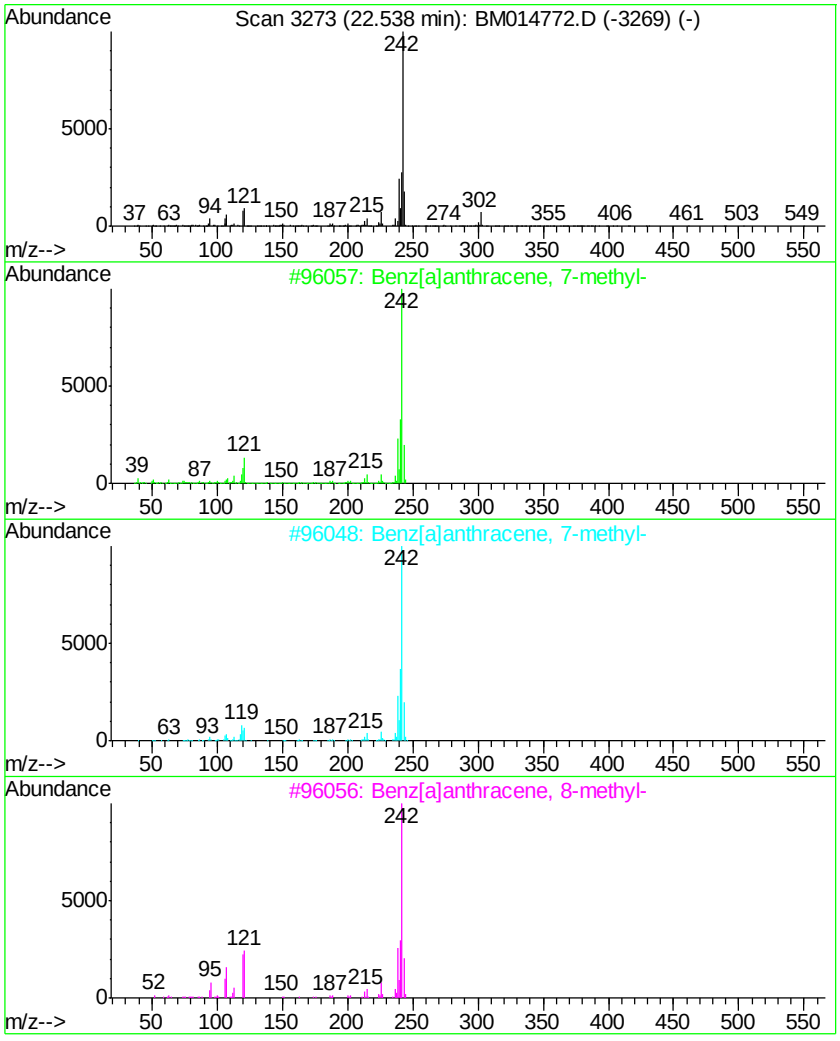
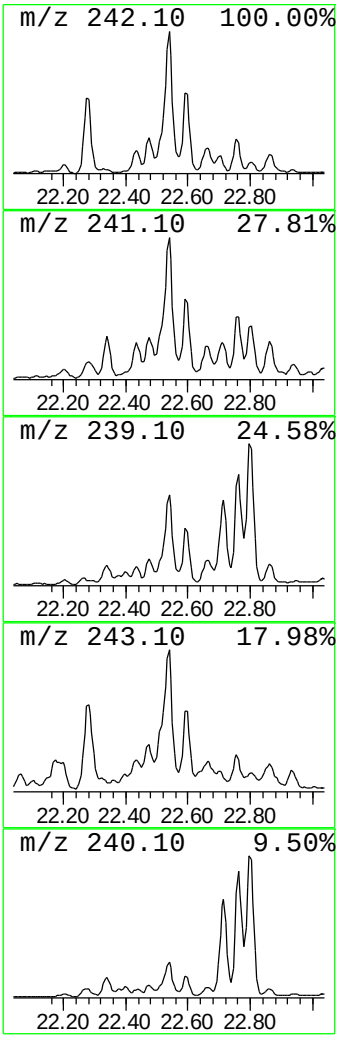
Peak Number 15 Benz[a]anthracene, 7-methyl- Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 22.54 | 2.22 ng/ul | 2312380 | Chrysene-d12 | 21.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benz[a]anthracene, 7-methyl- | 242 | C19H14 | 002541-69-7 | 93 |
| 2 | Benz[a]anthracene, 7-methyl- | 242 | C19H14 | 002541-69-7 | 90 |
| 3 | Benz[a]anthracene, 8-methyl- | 242 | C19H14 | 002381-31-9 | 90 |
| 4 | 1H-Benz[f]indene, 2-phenyl- | 242 | C19H14 | 1000305-22-4 | 90 |
| 5 | Triphenylene, 2-methyl- | 242 | C19H14 | 001705-84-6 | 89 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM042018\
Data File : BM014772.D
Acq On : 20 Apr 2018 20:31
Operator : SJ/JU
Sample : J2434-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AC8

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

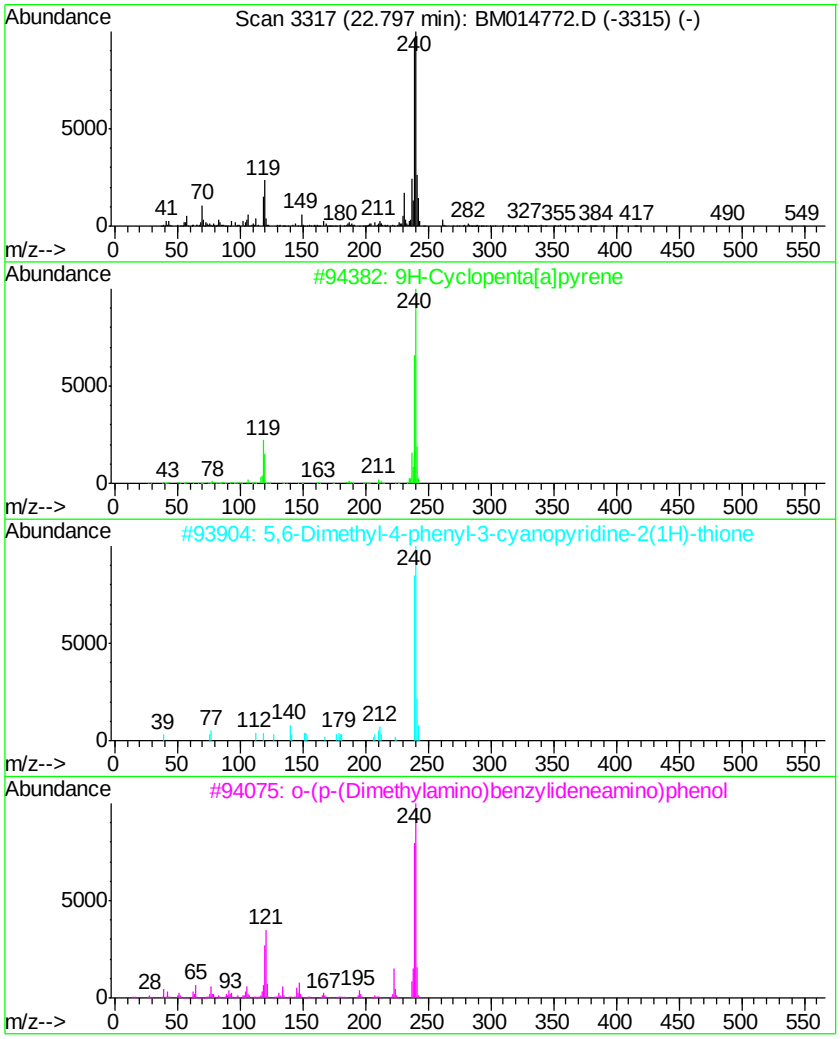
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

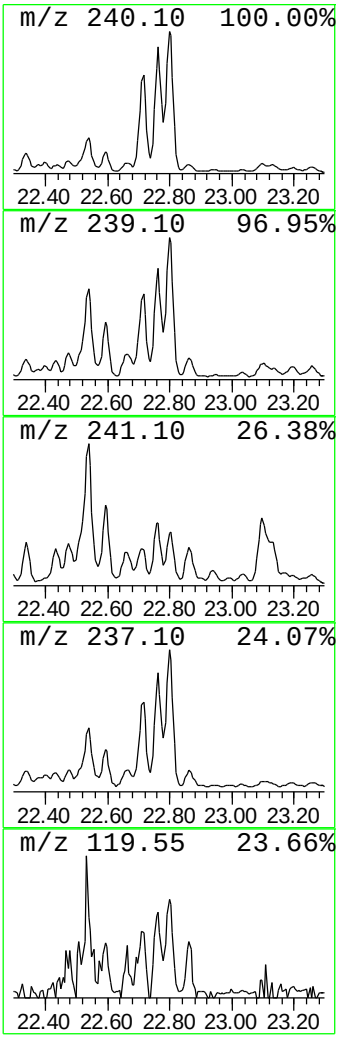
**********

Peak Number 16 9H-Cyclopenta[a]pyrene Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 22.80 | 2.05 ng/ul | 2140700 | Chrysene-d12 | 21.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9H-Cyclopenta[a]pyrene | 240 | C19H12 | 050861-05-7 | 87 |
| 2 | 5,6-Dimethyl-4-phenyl-3-cyanopyr... | 240 | C14H12N2S | 094639-18-6 | 58 |
| 3 | o-(p-(Dimethylamino)benzylidenea... | 240 | C15H16N2O | 023837-35-6 | 53 |
| 4 | Benzene, 1-thiobenzoyl-2,4,6-tri... | 240 | C16H16S | 001143-29-9 | 47 |
| 5 | 9-Amino-10,10-dimethyl-9,10-dihy... | 240 | C14H16N2Si | 092973-65-4 | 40 |



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM042018\
Data File : BM014772.D
Acq On : 20 Apr 2018 20:31
Operator : SJ/JU
Sample : J2434-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AC8

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

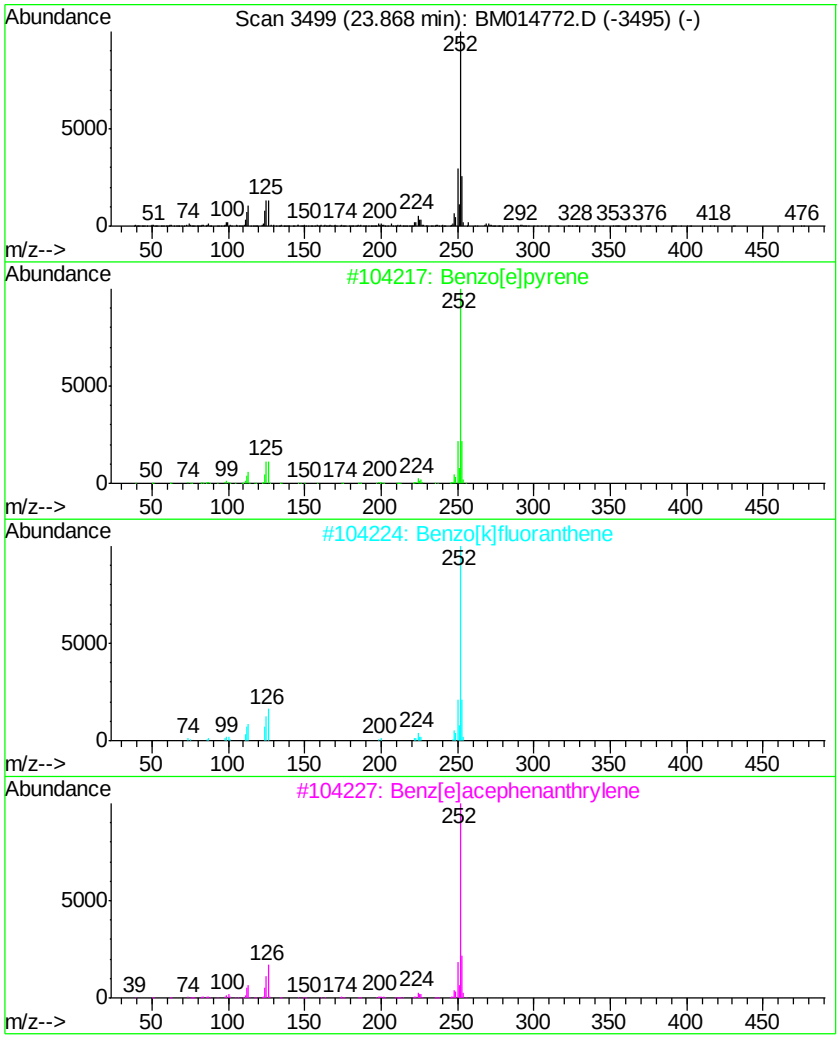
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

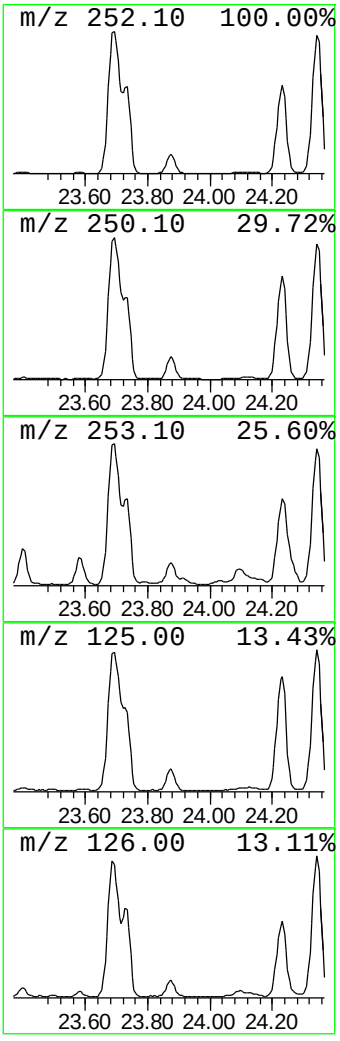
**********

Peak Number 17 Benzo[e]pyrene Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 23.87 | 12.66 ng/ul | 2713990 | Perylene-d12 | 24.44 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 98 |
| 2 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 98 |
| 3 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 94 |
| 4 | Perylene | 252 | C20H12 | 000198-55-0 | 93 |
| 5 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 91 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM042018\
Data File : BM014772.D
Acq On : 20 Apr 2018 20:31
Operator : SJ/JU
Sample : J2434-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AC8

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

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

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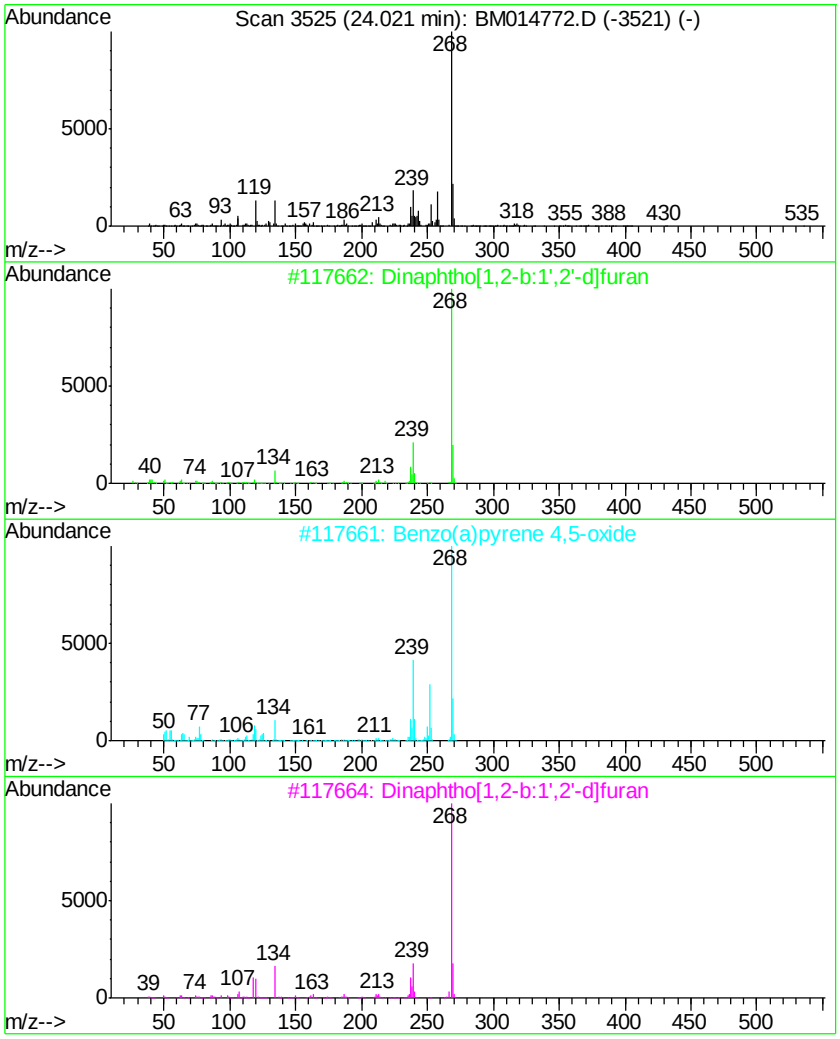
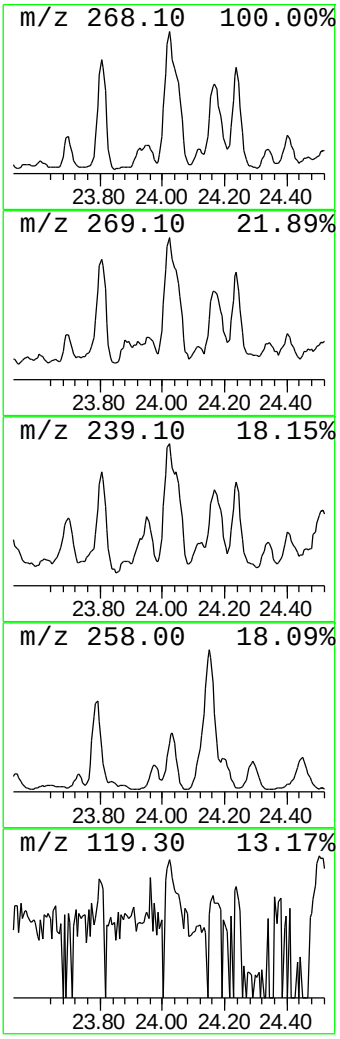
Peak Number 18 Dinaphtho[1,2-b:1',2'-d]furan Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 24.02 | 6.73 ng/ul | 1443820 | Perylene-d12 | 24.44 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dinaphtho[1,2-b:1',2'-d]furan | 268 | C20H12O | 000207-93-2 | 81 |
| 2 | Benzo(a)pyrene 4,5-oxide | 268 | C20H12O | 037574-47-3 | 80 |
| 3 | Dinaphtho[1,2-b:1',2'-d]furan | 268 | C20H12O | 000207-93-2 | 76 |
| 4 | Dinaphtho[2,1-b:1',2'-d]furan | 268 | C20H12O | 000194-63-8 | 72 |
| 5 | 9,10-Anthracenedione, 1,4,5,8-te... | 268 | C14H12N4O2 | 002475-45-8 | 58 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM042018\
Data File : BM014772.D
Acq On : 20 Apr 2018 20:31
Operator : SJ/JU
Sample : J2434-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AC8

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

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

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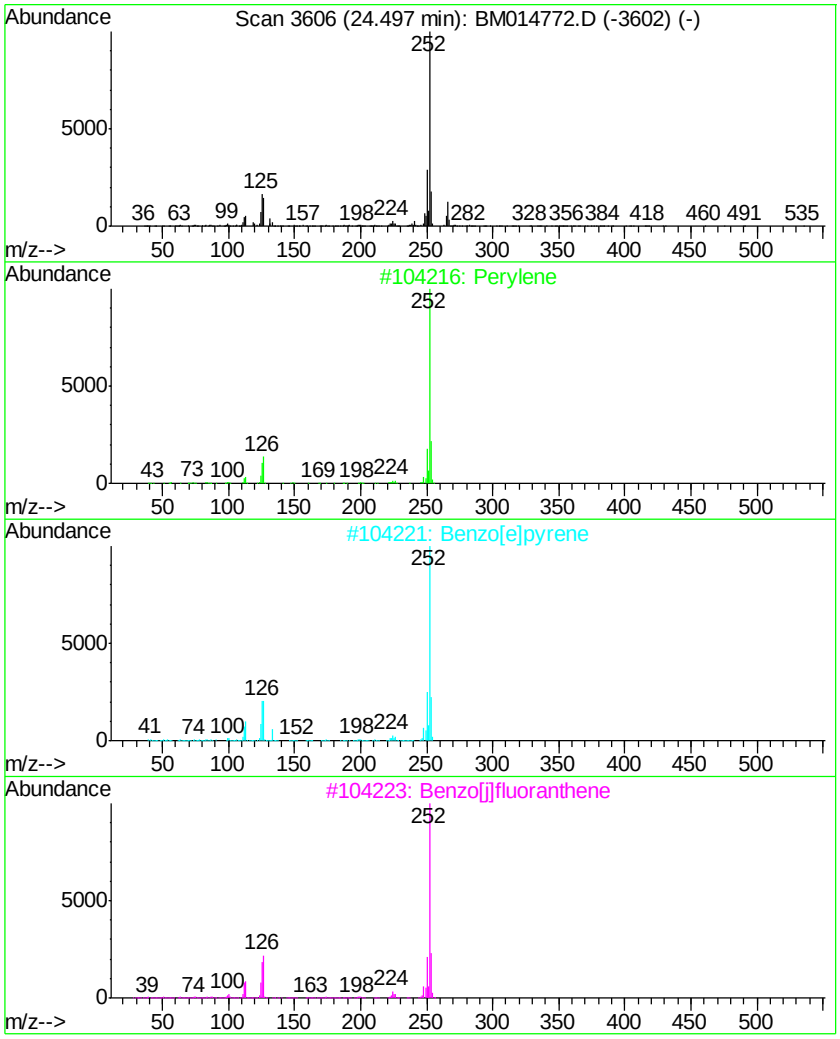
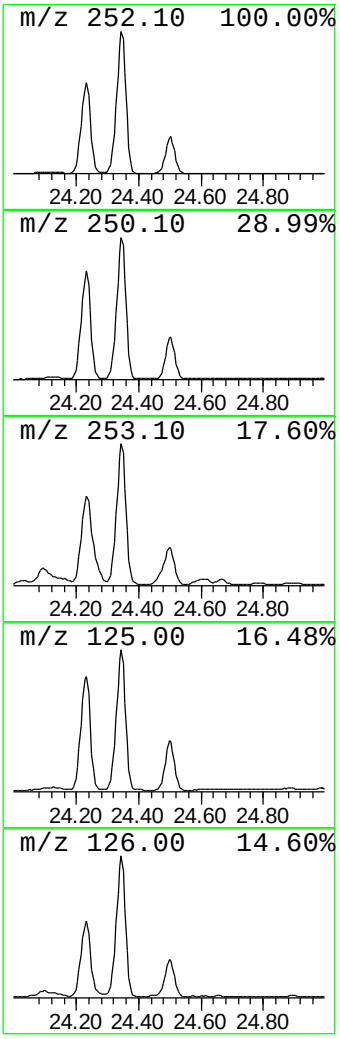
Peak Number 20 Perylene Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 24.50 | 31.98 ng/ul | 6856610 | Perylene-d12 | 24.44 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Perylene | 252 | C20H12 | 000198-55-0 | 96 |
| 2 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 89 |
| 3 | Benzo[j]fluoranthene | 252 | C20H12 | 000205-82-3 | 89 |
| 4 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 89 |
| 5 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 89 |



# Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM042018\
Data File : BM014772.D
Acq On : 20 Apr 2018 20:31
Operator : SJ/JU
Sample : J2434-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AC8

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.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 |
| Ethanone, 1-cyclo... | 3.32 | 4.4 | ng/ul | 448043 | 1 | 8.55 | 2052340 | 20.0 |
| Butane, 2-methoxy... | 3.37 | 8.3 | ng/ul | 853669 | 1 | 8.55 | 2052340 | 20.0 |
| 2H-Pyran, tetrahy... | 4.26 | 5.2 | ng/ul | 528539 | 1 | 8.55 | 2052340 | 20.0 |
| (DEL) Alkane: Str... | 15.93 | 2.2 | ng/ul | 380736 | 3 | 15.14 | 3452200 | 20.0 |
| (DEL) Alkane: Str... | 16.78 | 2.6 | ng/ul | 496572 | 4 | 17.86 | 3853920 | 20.0 |
| n-Hexadecanoic acid | 18.68 | 6.8 | ng/ul | 1312270 | 4 | 17.86 | 3853920 | 20.0 |
| Anthracene, 2-met... | 18.71 | 2.7 | ng/ul | 513191 | 4 | 17.86 | 3853920 | 20.0 |
| Phenanthrene, 2-m... | 18.76 | 5.2 | ng/ul | 1010090 | 4 | 17.86 | 3853920 | 20.0 |
| 4H-Cyclopenta[def... | 18.91 | 6.3 | ng/ul | 1210930 | 4 | 17.86 | 3853920 | 20.0 |
| Cyclopenta(def)ph... | 19.74 | 2.1 | ng/ul | 408331 | 4 | 17.86 | 3853920 | 20.0 |
| 11H-Benzo[b]fluorene | 20.69 | 4.8 | ng/ul | 5009400 | 5 | 21.94 | 20848200 | 20.0 |
| Fluoranthene, 2-m... | 20.79 | 2.4 | ng/ul | 2448640 | 5 | 21.94 | 20848200 | 20.0 |
| unknown-01 | 21.67 | 2.6 | ng/ul | 2743330 | 5 | 21.94 | 20848200 | 20.0 |
| 11H-Benzo[a]carba... | 22.28 | 3.3 | ng/ul | 3393650 | 5 | 21.94 | 20848200 | 20.0 |
| Benz[a]anthracene... | 22.54 | 2.2 | ng/ul | 2312380 | 5 | 21.94 | 20848200 | 20.0 |
| 9H-Cyclopenta[a]p... | 22.80 | 2.0 | ng/ul | 2140700 | 5 | 21.94 | 20848200 | 20.0 |
| Benzo[e]pyrene | 23.87 | 12.7 | ng/ul | 2713990 | 6 | 24.44 | 4288410 | 20.0 |
| Dinaphtho[1,2-b:1... | 24.02 | 6.7 | ng/ul | 1443820 | 6 | 24.44 | 4288410 | 20.0 |
| Perylene | 24.50 | 32.0 | ng/ul | 6856610 | 6 | 24.44 | 4288410 | 20.0 |