LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG052616\
Data File : BG022076.D
Acq On : 26 May 2016 11:40
Operator : UM/SJ
Sample : H3124-20DL 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** JHGJ3DL

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-BG052116.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 | 7.316 | 755 | 762 | 771 | rBV | 26962 | 58303 | 3.93% | 0.465% |
| 2 | 7.474 | 781 | 789 | 796 | rBV | 24089 | 49650 | 3.35% | 0.396% |
| 3 | 7.686 | 818 | 825 | 834 | rBV | 34073 | 68705 | 4.63% | 0.548% |
| 4 | 8.156 | 895 | 905 | 914 | rVV | 84822 | 167088 | 11.26% | 1.333% |
| 5 | 8.867 | 1019 | 1026 | 1036 | rBV2 | 40119 | 85859 | 5.79% | 0.685% |
| 6 | 9.325 | 1097 | 1104 | 1117 | rVV | 29448 | 70553 | 4.76% | 0.563% |
| 7 | 9.889 | 1192 | 1200 | 1204 | rVV5 | 3076 | 5852 | 0.39% | 0.047% |
| 8 | 10.048 | 1218 | 1227 | 1238 | rBV2 | 25484 | 59931 | 4.04% | 0.478% |
| 9 | 10.142 | 1241 | 1243 | 1249 | rVB4 | 3995 | 6082 | 0.41% | 0.049% |
| 10 | 10.600 | 1312 | 1321 | 1331 | rBV | 43862 | 92496 | 6.24% | 0.738% |
| 11 | 10.911 | 1370 | 1374 | 1375 | rBV2 | 3060 | 3662 | 0.25% | 0.029% |
| 12 | 10.976 | 1377 | 1385 | 1401 | rVB | 163531 | 350736 | 23.64% | 2.797% |
| 13 | 11.111 | 1401 | 1408 | 1416 | rBV3 | 27900 | 64105 | 4.32% | 0.511% |
| 14 | 11.387 | 1448 | 1455 | 1456 | rBV2 | 2273 | 4037 | 0.27% | 0.032% |
| 15 | 11.452 | 1462 | 1466 | 1470 | rVV5 | 2809 | 5158 | 0.35% | 0.041% |
| 16 | 11.628 | 1489 | 1496 | 1497 | rBV4 | 2786 | 3872 | 0.26% | 0.031% |
| 17 | 11.658 | 1497 | 1501 | 1507 | rVB7 | 3937 | 7349 | 0.50% | 0.059% |
| 18 | 11.781 | 1518 | 1522 | 1529 | rVV7 | 2591 | 4563 | 0.31% | 0.036% |
| 19 | 11.963 | 1545 | 1553 | 1558 | rBV2 | 10501 | 21129 | 1.42% | 0.169% |
| 20 | 11.998 | 1558 | 1559 | 1563 | rVV3 | 2988 | 4242 | 0.29% | 0.034% |
| 21 | 12.151 | 1579 | 1585 | 1590 | rBV6 | 3099 | 5322 | 0.36% | 0.042% |
| 22 | 12.222 | 1593 | 1597 | 1599 | rBV4 | 2743 | 3643 | 0.25% | 0.029% |
| 23 | 12.351 | 1614 | 1619 | 1623 | rBV6 | 3042 | 5166 | 0.35% | 0.041% |
| 24 | 12.621 | 1660 | 1665 | 1671 | rBV | 11382 | 20620 | 1.39% | 0.164% |
| 25 | 12.756 | 1683 | 1688 | 1690 | rBV5 | 2692 | 4762 | 0.32% | 0.038% |
| 26 | 12.833 | 1696 | 1701 | 1709 | rVB2 | 15907 | 27605 | 1.86% | 0.220% |
| 27 | 12.985 | 1722 | 1727 | 1731 | rBV5 | 4715 | 8444 | 0.57% | 0.067% |
| 28 | 13.056 | 1733 | 1739 | 1746 | rVB6 | 4462 | 8780 | 0.59% | 0.070% |
| 29 | 13.226 | 1762 | 1768 | 1772 | rBV8 | 2825 | 5525 | 0.37% | 0.044% |
| 30 | 13.297 | 1774 | 1780 | 1786 | rVB | 18103 | 29234 | 1.97% | 0.233% |
| 31 | 13.485 | 1808 | 1812 | 1817 | rBV7 | 2561 | 4645 | 0.31% | 0.037% |
| 32 | 13.579 | 1820 | 1828 | 1832 | rBV7 | 6923 | 18585 | 1.25% | 0.148% |
| 33 | 13.614 | 1832 | 1834 | 1838 | rVV4 | 5095 | 7437 | 0.50% | 0.059% |
| 34 | 13.820 | 1865 | 1869 | 1877 | rVB10 | 4880 | 10213 | 0.69% | 0.081% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG052616\
Data File : BG022076.D
Acq On : 26 May 2016 11:40
Operator : UM/SJ
Sample : H3124-20DL 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** JHGJ3DL

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-BG052116.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 13.961 | 1885 | 1893 | 1900 | rVB5 | 21514 | 55421 | 3.74% | 0.442% |
| 36 | 14.102 | 1911 | 1917 | 1922 | rBV2 | 38094 | 71089 | 4.79% | 0.567% |
| 37 | 14.172 | 1922 | 1929 | 1934 | rVV | 107780 | 209801 | 14.14% | 1.673% |
| 38 | 14.225 | 1934 | 1938 | 1946 | rVB2 | 60787 | 124745 | 8.41% | 0.995% |
| 39 | 14.337 | 1952 | 1957 | 1961 | rBV4 | 16710 | 26747 | 1.80% | 0.213% |
| 40 | 14.478 | 1974 | 1981 | 1993 | rVV | 131789 | 284390 | 19.17% | 2.268% |
| 41 | 14.601 | 1998 | 2002 | 2006 | rVB5 | 8046 | 13845 | 0.93% | 0.110% |
| 42 | 14.654 | 2006 | 2011 | 2018 | rBV8 | 7306 | 14661 | 0.99% | 0.117% |
| 43 | 14.777 | 2020 | 2032 | 2039 | rBV2 | 268662 | 509487 | 34.35% | 4.063% |
| 44 | 14.848 | 2040 | 2044 | 2050 | rVB4 | 22615 | 40724 | 2.75% | 0.325% |
| 45 | 14.901 | 2050 | 2053 | 2060 | rVB8 | 6329 | 11924 | 0.80% | 0.095% |
| 46 | 14.989 | 2063 | 2068 | 2076 | rBV10 | 16463 | 37916 | 2.56% | 0.302% |
| 47 | 15.171 | 2093 | 2099 | 2106 | rVB4 | 24313 | 53229 | 3.59% | 0.425% |
| 48 | 15.247 | 2106 | 2112 | 2120 | rBV5 | 20268 | 50439 | 3.40% | 0.402% |
| 49 | 15.388 | 2130 | 2136 | 2140 | rBV4 | 21131 | 40426 | 2.73% | 0.322% |
| 50 | 15.441 | 2141 | 2145 | 2149 | rVB3 | 12773 | 21301 | 1.44% | 0.170% |
| 51 | 15.547 | 2158 | 2163 | 2164 | rBV3 | 18716 | 27754 | 1.87% | 0.221% |
| 52 | 15.588 | 2168 | 2170 | 2175 | rVB5 | 15818 | 20729 | 1.40% | 0.165% |
| 53 | 15.647 | 2177 | 2180 | 2185 | rVB7 | 8302 | 12277 | 0.83% | 0.098% |
| 54 | 15.694 | 2185 | 2188 | 2189 | rBV3 | 7911 | 7957 | 0.54% | 0.063% |
| 55 | 15.770 | 2195 | 2201 | 2206 | rBV | 164255 | 266529 | 17.97% | 2.126% |
| 56 | 15.823 | 2206 | 2210 | 2217 | rVB | 68006 | 117009 | 7.89% | 0.933% |
| 57 | 15.888 | 2218 | 2221 | 2227 | rVV2 | 22616 | 35663 | 2.40% | 0.284% |
| 58 | 15.999 | 2234 | 2240 | 2244 | rBV2 | 34191 | 57091 | 3.85% | 0.455% |
| 59 | 16.258 | 2281 | 2284 | 2294 | rVB3 | 12466 | 25016 | 1.69% | 0.200% |
| 60 | 16.481 | 2315 | 2322 | 2334 | rVB | 105455 | 201894 | 13.61% | 1.610% |
| 61 | 16.822 | 2377 | 2380 | 2384 | rVB4 | 16809 | 25197 | 1.70% | 0.201% |
| 62 | 17.245 | 2449 | 2452 | 2457 | rBV7 | 16511 | 27400 | 1.85% | 0.219% |
| 63 | 17.298 | 2457 | 2461 | 2465 | rBV | 35666 | 52876 | 3.56% | 0.422% |
| 64 | 17.527 | 2493 | 2500 | 2503 | rBV | 279467 | 508600 | 34.29% | 4.056% |
| 65 | 17.568 | 2503 | 2507 | 2512 | rVV | 538909 | 871584 | 58.76% | 6.951% |
| 66 | 17.621 | 2512 | 2516 | 2520 | rVV | 158143 | 286961 | 19.35% | 2.289% |
| 67 | 17.656 | 2520 | 2522 | 2528 | rVB | 98745 | 130098 | 8.77% | 1.038% |
| 68 | 18.038 | 2583 | 2587 | 2592 | rVB | 27906 | 40429 | 2.73% | 0.322% |
| 69 | 18.397 | 2643 | 2648 | 2652 | rBV | 94968 | 147366 | 9.93% | 1.175% |
| 70 | 18.444 | 2652 | 2656 | 2663 | rVB | 113127 | 183464 | 12.37% | 1.463% |
| 71 | 18.526 | 2665 | 2670 | 2675 | rVB2 | 35705 | 59965 | 4.04% | 0.478% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG052616\
Data File : BG022076.D
Acq On : 26 May 2016 11:40
Operator : UM/SJ
Sample : H3124-20DL 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** JHGJ3DL

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-BG052116.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 18.591 | 2675 | 2681 | 2685 | rBV2 | 135831 | 280438 | 18.91% | 2.237% |
| 73 | 18.884 | 2727 | 2731 | 2736 | rBV | 55463 | 85376 | 5.76% | 0.681% |
| 74 | 18.937 | 2736 | 2740 | 2750 | rVB3 | 22818 | 43791 | 2.95% | 0.349% |
| 75 | 19.066 | 2759 | 2762 | 2766 | rBV5 | 11585 | 15793 | 1.06% | 0.126% |
| 76 | 19.125 | 2769 | 2772 | 2777 | rVB5 | 20242 | 35944 | 2.42% | 0.287% |
| 77 | 19.178 | 2778 | 2781 | 2786 | rVB3 | 11036 | 16899 | 1.14% | 0.135% |
| 78 | 19.301 | 2797 | 2802 | 2806 | rBV2 | 44727 | 81582 | 5.50% | 0.651% |
| 79 | 19.454 | 2822 | 2828 | 2834 | rVB5 | 25828 | 59900 | 4.04% | 0.478% |
| 80 | 19.566 | 2840 | 2847 | 2854 | rBV | 614576 | 948711 | 63.96% | 7.566% |
| 81 | 19.713 | 2868 | 2872 | 2877 | rBV | 32074 | 47217 | 3.18% | 0.377% |
| 82 | 19.930 | 2898 | 2909 | 2917 | rBV2 | 694360 | 1483365 | 100.00% | 11.830% |
| 83 | 19.995 | 2917 | 2920 | 2925 | rVB3 | 32417 | 48545 | 3.27% | 0.387% |
| 84 | 20.253 | 2958 | 2964 | 2970 | rVB3 | 37639 | 82288 | 5.55% | 0.656% |
| 85 | 20.324 | 2973 | 2976 | 2981 | rVV | 32618 | 46697 | 3.15% | 0.372% |
| 86 | 20.412 | 2982 | 2991 | 2997 | rVB | 83604 | 192712 | 12.99% | 1.537% |
| 87 | 20.512 | 3004 | 3008 | 3013 | rBV | 67052 | 94101 | 6.34% | 0.750% |
| 88 | 20.571 | 3015 | 3018 | 3023 | rVB | 48084 | 74830 | 5.04% | 0.597% |
| 89 | 20.712 | 3038 | 3042 | 3046 | rBV | 38165 | 59293 | 4.00% | 0.473% |
| 90 | 20.759 | 3046 | 3050 | 3056 | rVB2 | 42484 | 65661 | 4.43% | 0.524% |
| 91 | 21.411 | 3158 | 3161 | 3166 | rVB2 | 37331 | 56250 | 3.79% | 0.449% |
| 92 | 21.464 | 3167 | 3170 | 3175 | rVB2 | 29009 | 46117 | 3.11% | 0.368% |
| 93 | 21.799 | 3218 | 3227 | 3232 | rBV2 | 336075 | 890209 | 60.01% | 7.100% |
| 94 | 21.851 | 3232 | 3236 | 3249 | rVB | 195640 | 388848 | 26.21% | 3.101% |
| 95 | 22.010 | 3259 | 3263 | 3268 | rVB2 | 33400 | 53655 | 3.62% | 0.428% |
| 96 | 24.072 | 3606 | 3614 | 3621 | rBV3 | 85020 | 305463 | 20.59% | 2.436% |
| 97 | 24.819 | 3735 | 3741 | 3747 | rBV | 49814 | 141645 | 9.55% | 1.130% |
| 98 | 24.901 | 3750 | 3755 | 3760 | rVV3 | 77514 | 197153 | 13.29% | 1.572% |
| 99 | 24.977 | 3762 | 3768 | 3779 | rVB3 | 109292 | 317725 | 21.42% | 2.534% |
| 100 | 25.130 | 3785 | 3794 | 3803 | rBV2 | 133867 | 413265 | 27.86% | 3.296% |

Sum of corrected areas: 12538830

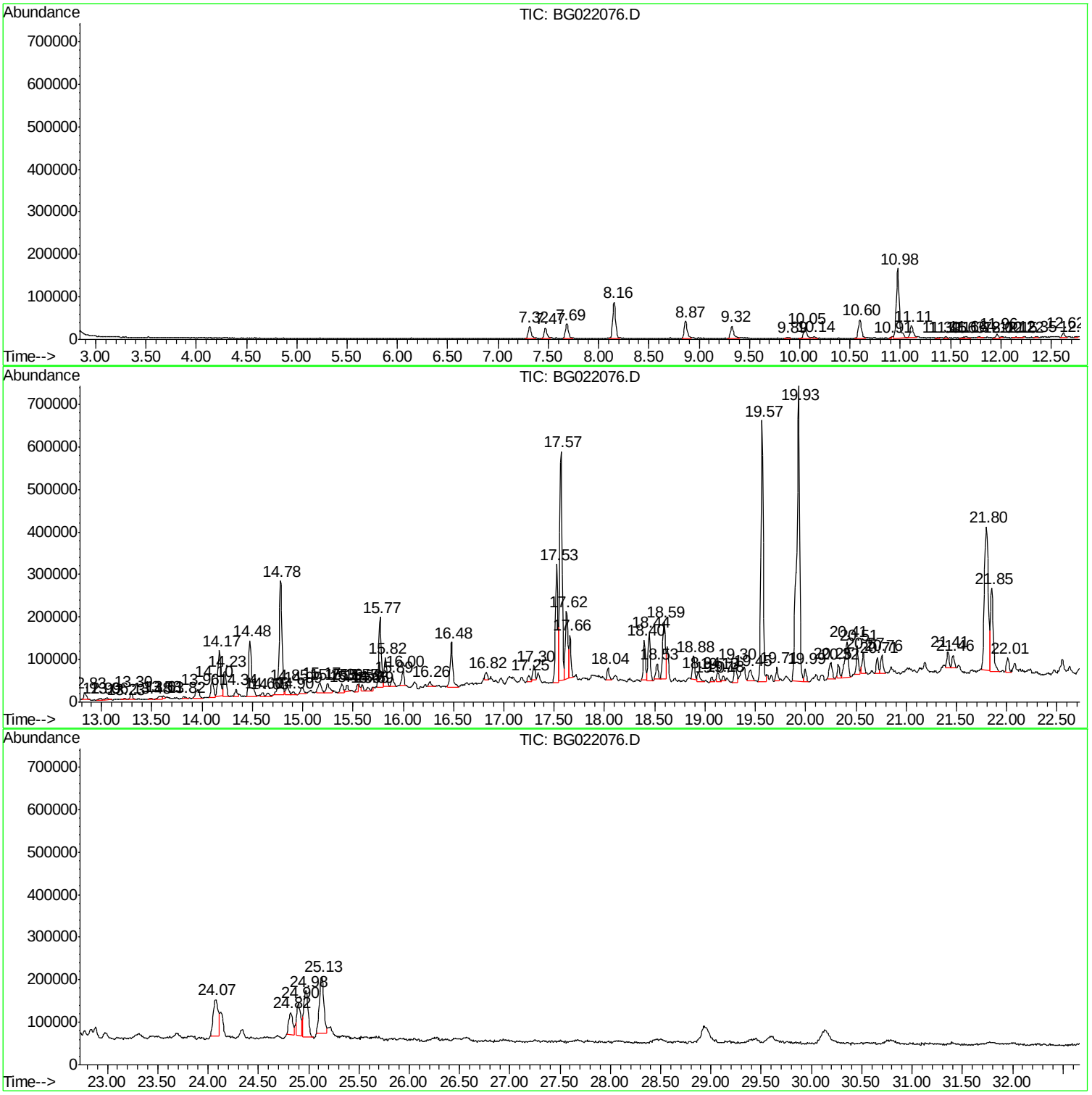
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA G\DATA\BG052616\
Data File : BG022076.D
Acq On : 26 May 2016 11:40
Operator : UM/SJ
Sample : H3124-20DL 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** JHGJ3DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG052116.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\BG052616\
Data File : BG022076.D
Acq On : 26 May 2016 11:40
Operator : UM/SJ
Sample : H3124-20DL 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** JHGJ3DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG052116.M
Quant Title : SVOA CALIBRATION

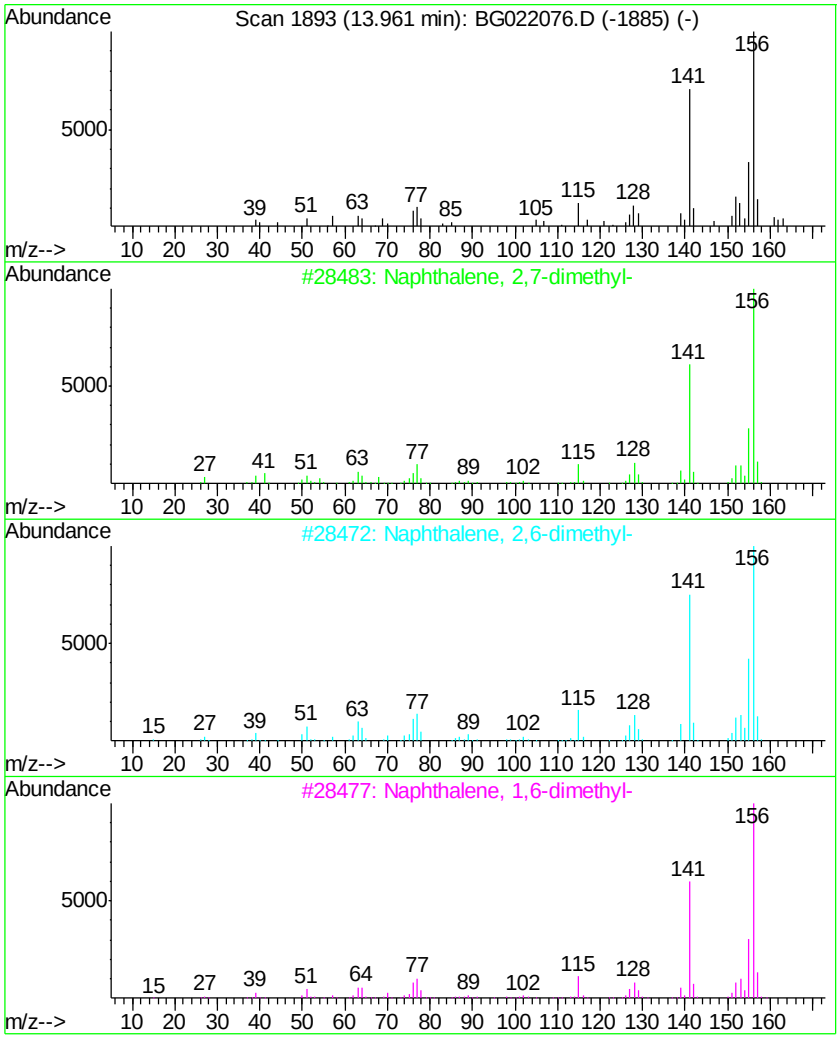
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

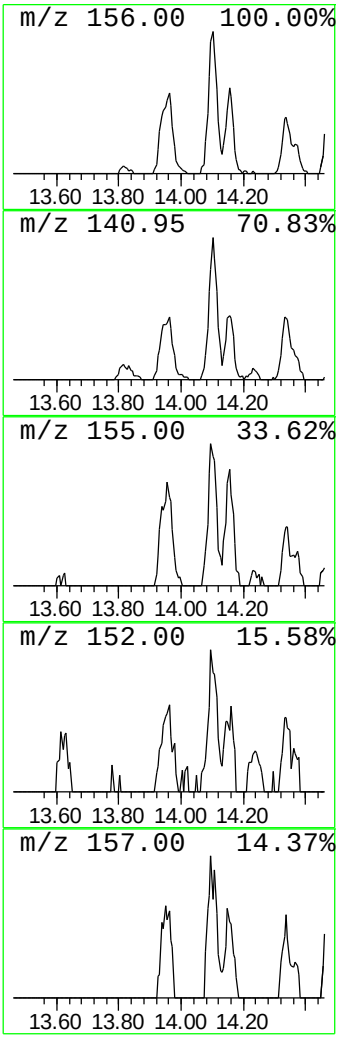
**********

Peak Number 1 Naphthalene, 2,7-dimethyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.96 | 2.18 ng/ul | 55421 | Acenaphthene-d10 | 14.78 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 97 |
| 2 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 97 |
| 3 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 97 |
| 4 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 96 |
| 5 | Naphthalene, 1,5-dimethyl- | 156 | C12H12 | 000571-61-9 | 96 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG052616\
Data File : BG022076.D
Acq On : 26 May 2016 11:40
Operator : UM/SJ
Sample : H3124-20DL 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** JHGJ3DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG052116.M
Quant Title : SVOA CALIBRATION

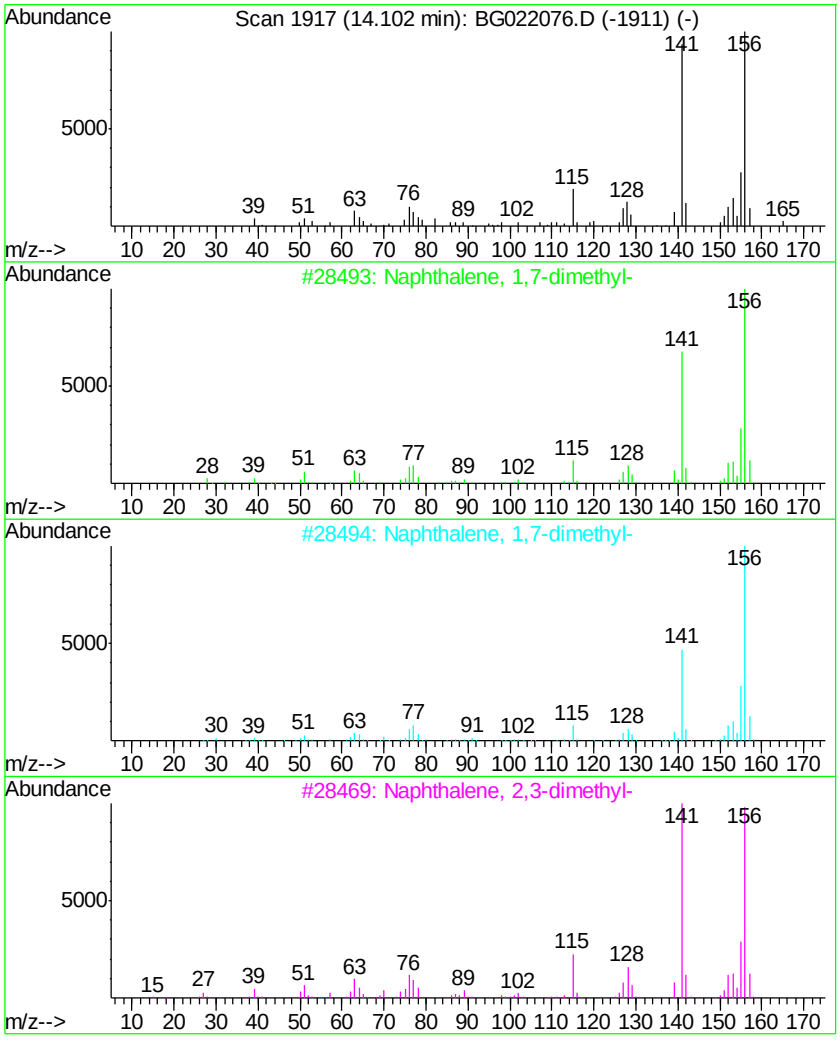
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

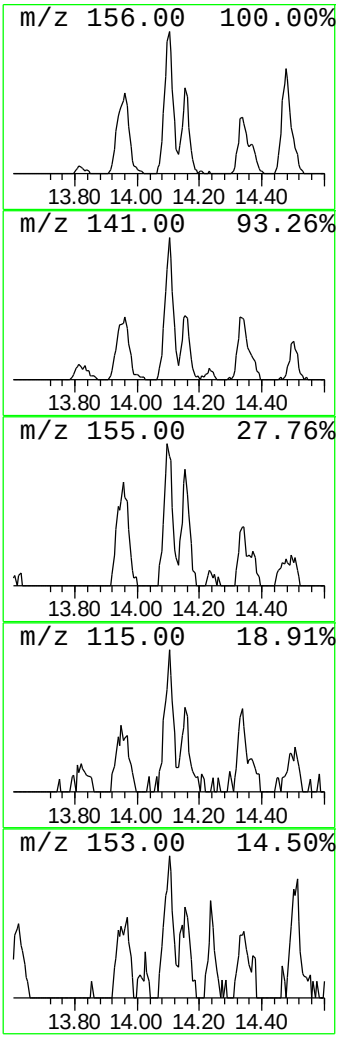
**********

Peak Number 2 Naphthalene, 1,7-dimethyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.10 | 2.79 ng/ul | 71089 | Acenaphthene-d10 | 14.78 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 97 |
| 2 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 97 |
| 3 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 96 |
| 4 | Naphthalene, 1,3-dimethyl- | 156 | C12H12 | 000575-41-7 | 96 |
| 5 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 96 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG052616\
Data File : BG022076.D
Acq On : 26 May 2016 11:40
Operator : UM/SJ
Sample : H3124-20DL 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** JHGJ3DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG052116.M
Quant Title : SVOA CALIBRATION

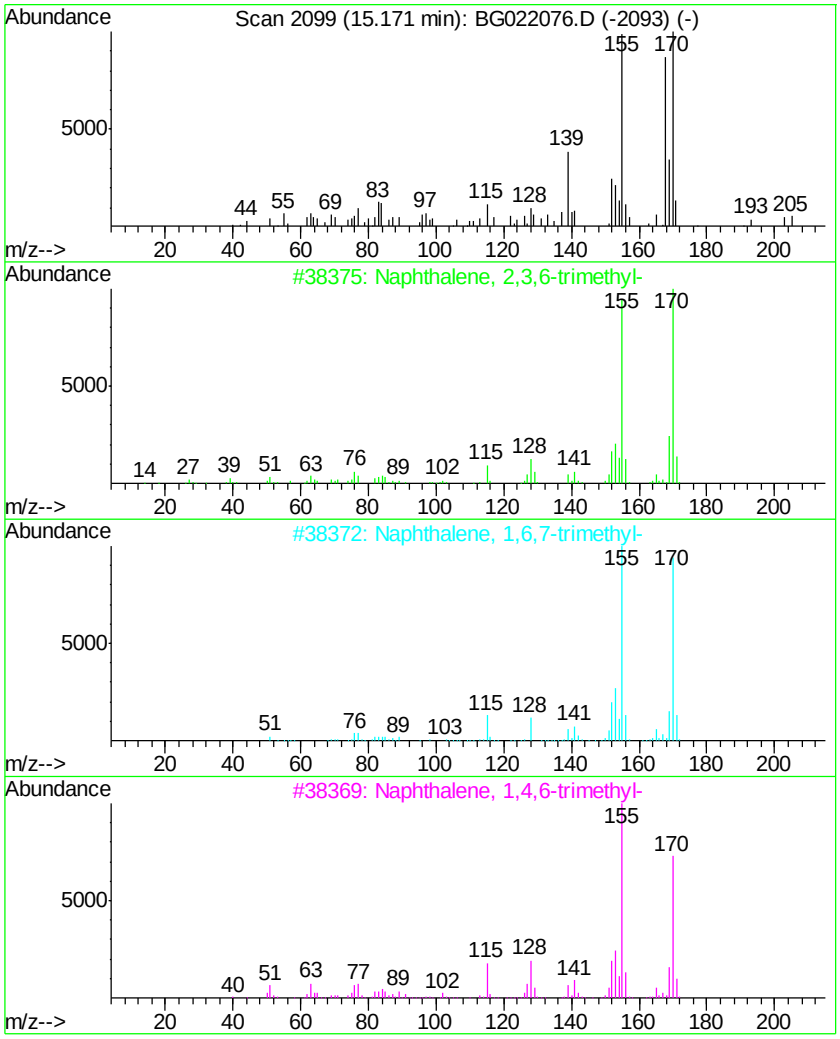
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

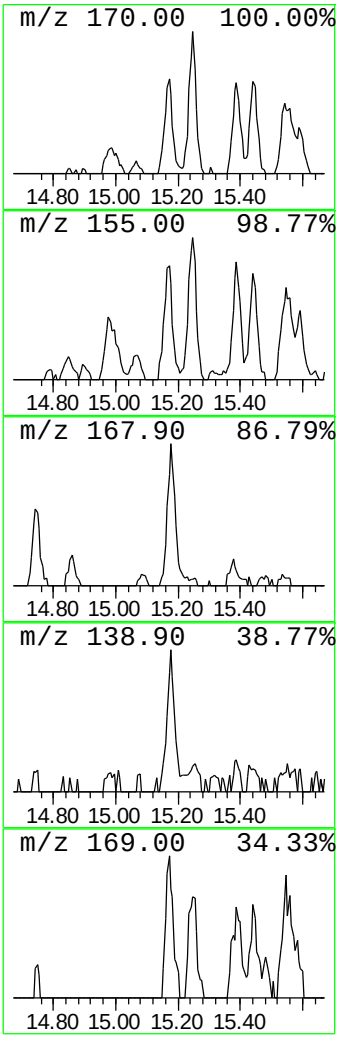
**********

Peak Number 3 Naphthalene, 2,3,6-trimethyl- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.17 | 2.09 ng/ul | 53229 | Acenaphthene-d10 | 14.78 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14 | 000829-26-5 | 83 |
| 2 | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14 | 002245-38-7 | 78 |
| 3 | Naphthalene, 1,4,6-trimethyl- | 170 | C13H14 | 002131-42-2 | 64 |
| 4 | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14 | 002245-38-7 | 60 |
| 5 | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14 | 000829-26-5 | 60 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG052616\
Data File : BG022076.D
Acq On : 26 May 2016 11:40
Operator : UM/SJ
Sample : H3124-20DL 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** JHGJ3DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG052116.M
Quant Title : SVOA CALIBRATION

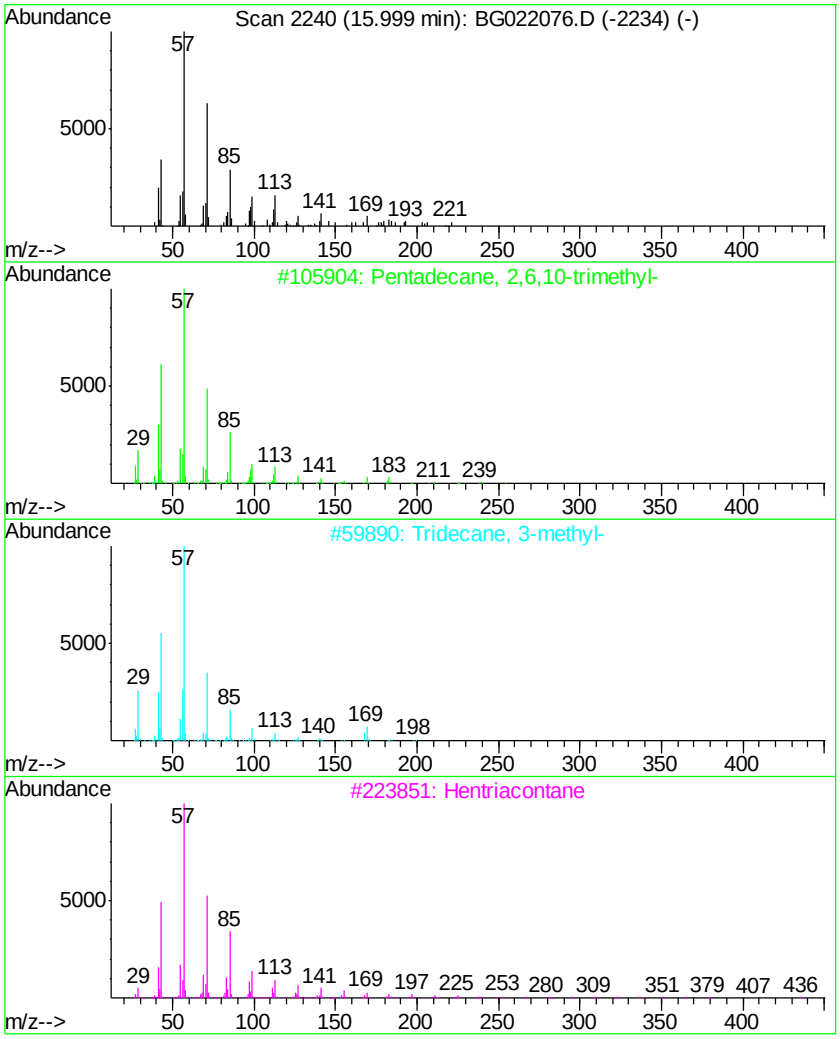
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

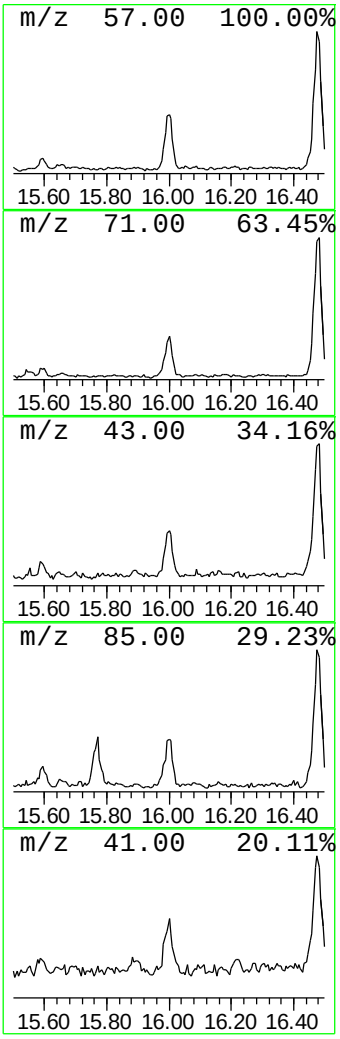
**********

Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.00 | 2.24 ng/ul | 57091 | Acenaphthene-d10 | 14.78 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentadecane, 2,6,10-trimethyl- | 254 | C18H38 | 003892-00-0 | 86 |
| 2 | Tridecane, 3-methyl- | 198 | C14H30 | 006418-41-3 | 80 |
| 3 | Hentriacontane | 437 | C31H64 | 000630-04-6 | 72 |
| 4 | Pentadecane, 2,6,10,14-tetramethyl- | 268 | C19H40 | 001921-70-6 | 72 |
| 5 | Hexadecane, 2,6,10,14-tetramethyl- | 282 | C20H42 | 000638-36-8 | 72 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG052616\
Data File : BG022076.D
Acq On : 26 May 2016 11:40
Operator : UM/SJ
Sample : H3124-20DL 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** JHGJ3DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG052116.M
Quant Title : SVOA CALIBRATION

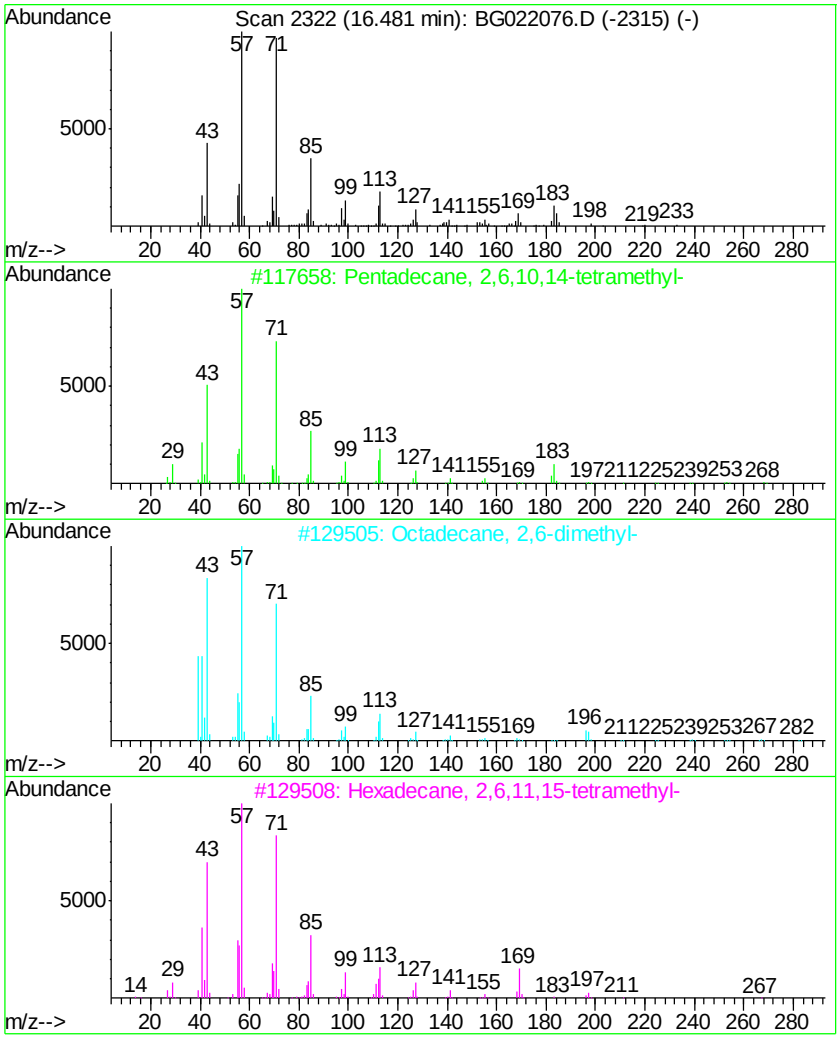
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

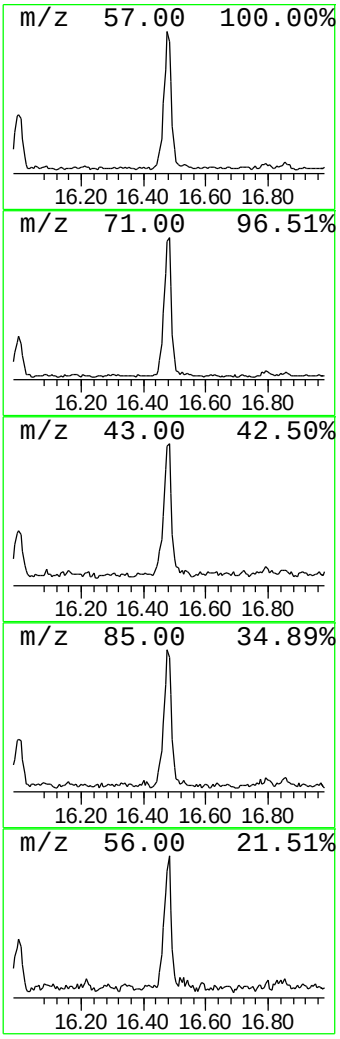
**********

Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.48 | 7.94 ng/ul | 201894 | Phenanthrene-d10 | 17.53 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentadecane, 2,6,10,14-tetramethyl- | 268 | C19H40 | 001921-70-6 | 91 |
| 2 | Octadecane, 2,6-dimethyl- | 282 | C20H42 | 075163-97-2 | 86 |
| 3 | Hexadecane, 2,6,11,15-tetramethyl- | 282 | C20H42 | 000504-44-9 | 86 |
| 4 | Decane, 2-methyl- | 156 | C11H24 | 006975-98-0 | 83 |
| 5 | Tridecane, 7-methyl- | 198 | C14H30 | 026730-14-3 | 76 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG052616\
Data File : BG022076.D
Acq On : 26 May 2016 11:40
Operator : UM/SJ
Sample : H3124-20DL 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** JHGJ3DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG052116.M
Quant Title : SVOA CALIBRATION

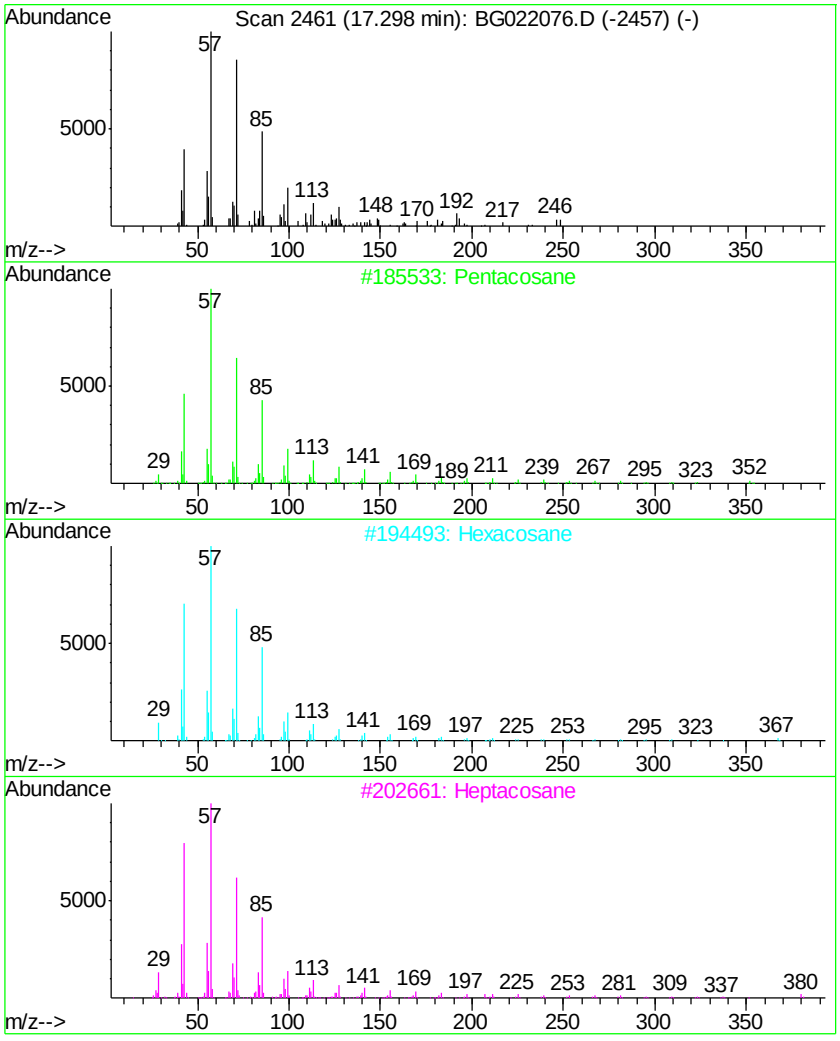
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

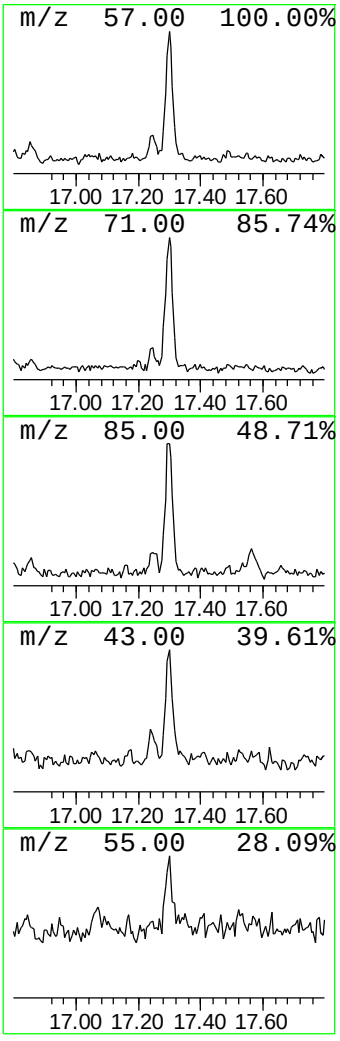
**********

Peak Number 6 (DEL) Alkane: Straight-Chai... Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.30 | 2.08 ng/ul | 52876 | Phenanthrene-d10 | 17.53 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentacosane | 352 | C25H52 | 000629-99-2 | 86 |
| 2 | Hexacosane | 366 | C26H54 | 000630-01-3 | 86 |
| 3 | Heptacosane | 380 | C27H56 | 000593-49-7 | 86 |
| 4 | Octacosane | 394 | C28H58 | 000630-02-4 | 78 |
| 5 | Hexacosane | 366 | C26H54 | 000630-01-3 | 78 |



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Data File : BG022076.D
Acq On : 26 May 2016 11:40
Operator : UM/SJ
Sample : H3124-20DL 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** JHGJ3DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG052116.M
Quant Title : SVOA CALIBRATION

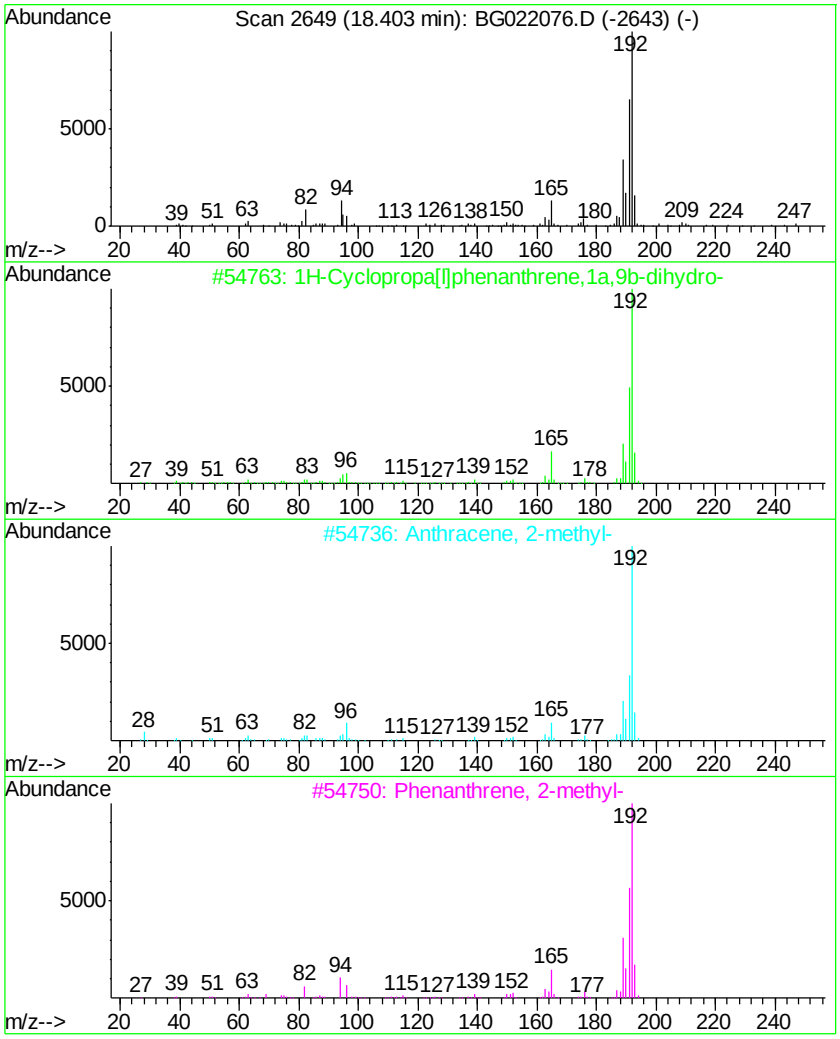
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

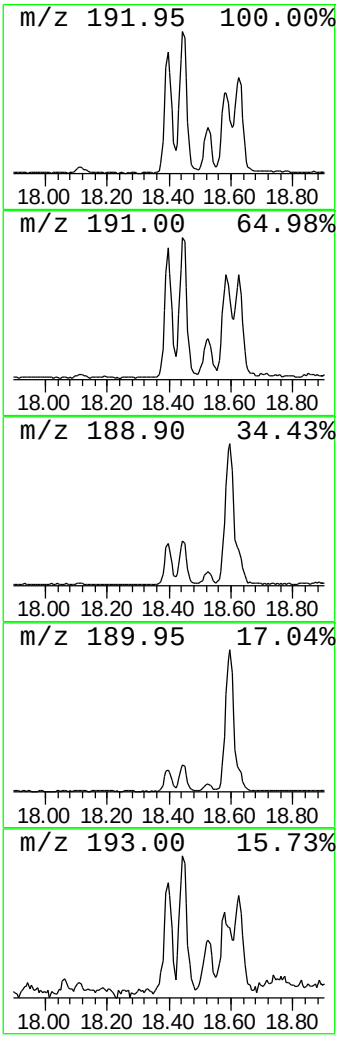
**********

Peak Number 7 1H-Cyclopropa[l]phenanthren... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.40 | 5.79 ng/ul | 147366 | Phenanthrene-d10 | 17.53 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 94 |
| 2 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 93 |
| 3 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 91 |
| 4 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 91 |
| 5 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 90 |



# Library Search Compound Report

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Data File : BG022076.D
Acq On : 26 May 2016 11:40
Operator : UM/SJ
Sample : H3124-20DL 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** JHGJ3DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG052116.M
Quant Title : SVOA CALIBRATION

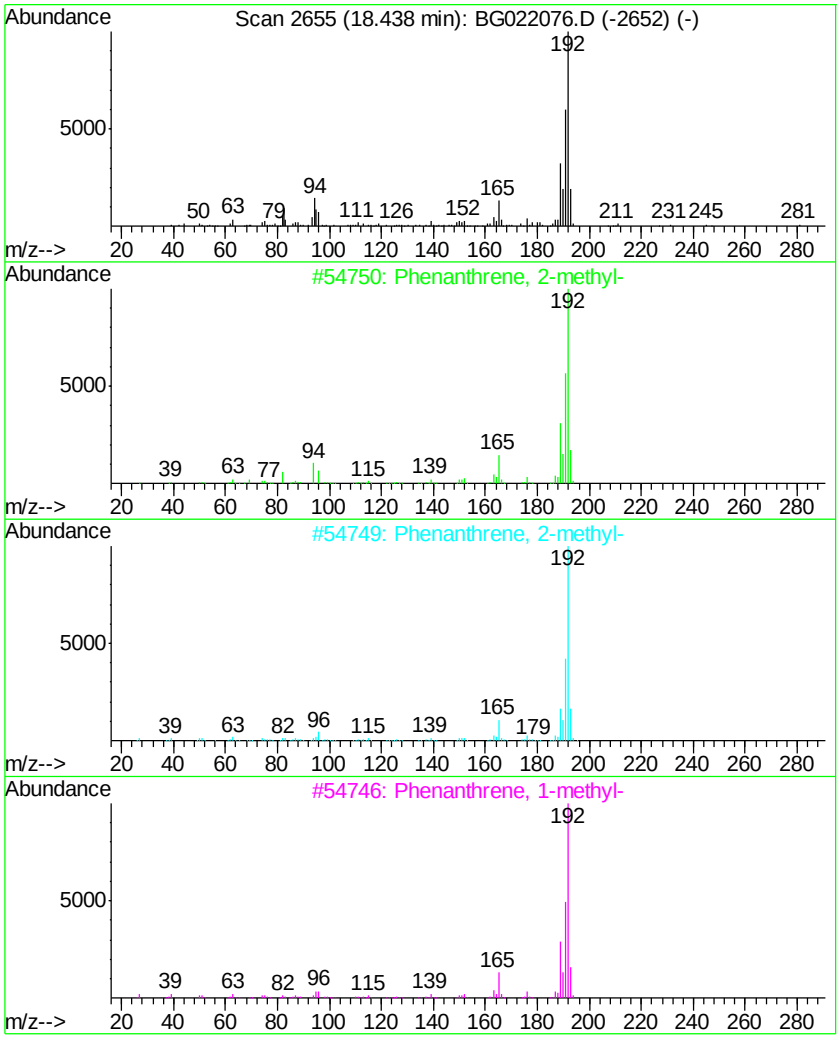
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

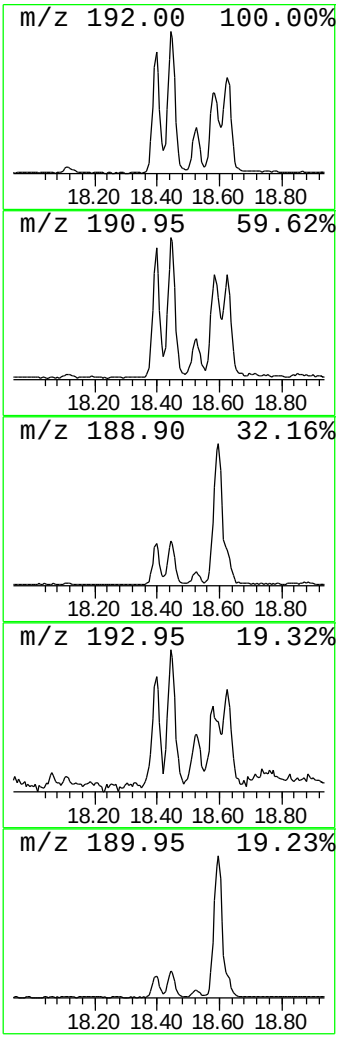
**********

Peak Number 8 Phenanthrene, 2-methyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.44 | 7.21 ng/ul | 183464 | Phenanthrene-d10 | 17.53 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 97 |
| 2 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 96 |
| 3 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 96 |
| 4 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 95 |
| 5 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 95 |



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Data File : BG022076.D
Acq On : 26 May 2016 11:40
Operator : UM/SJ
Sample : H3124-20DL 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** JHGJ3DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG052116.M
Quant Title : SVOA CALIBRATION

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

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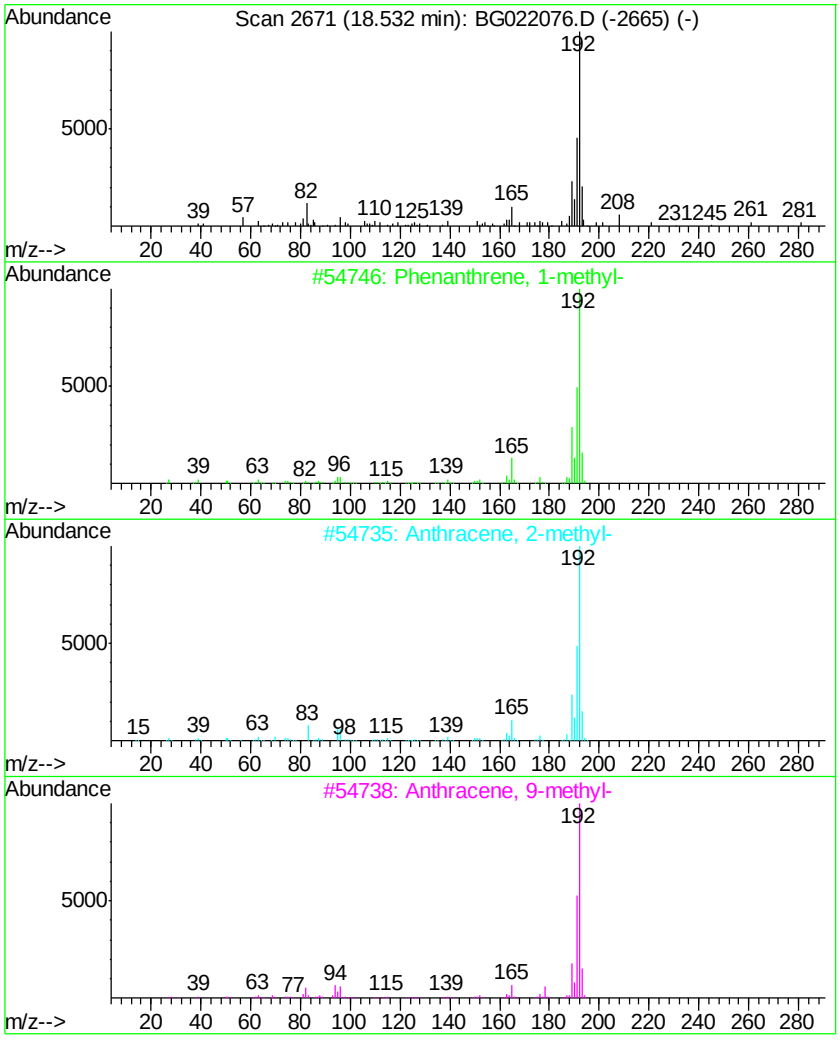
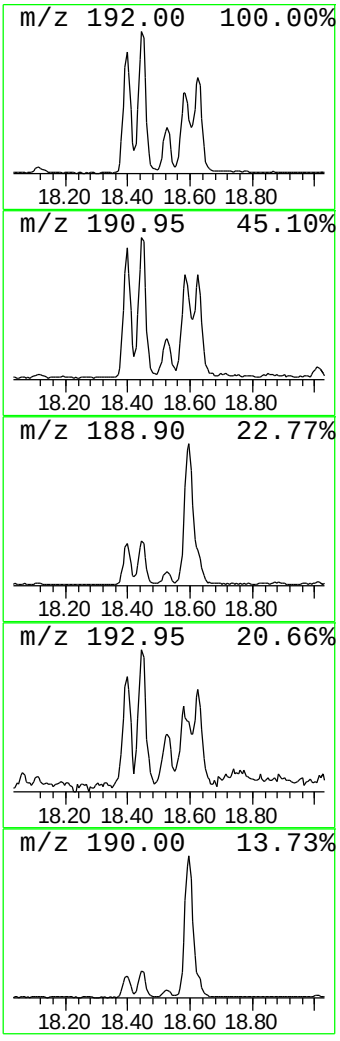
Peak Number 9 Phenanthrene, 1-methyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.53 | 2.36 ng/ul | 59965 | Phenanthrene-d10 | 17.53 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 93 |
| 2 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 90 |
| 3 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 87 |
| 4 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 87 |
| 5 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 87 |



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Data File : BG022076.D
Acq On : 26 May 2016 11:40
Operator : UM/SJ
Sample : H3124-20DL 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** JHGJ3DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG052116.M
Quant Title : SVOA CALIBRATION

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

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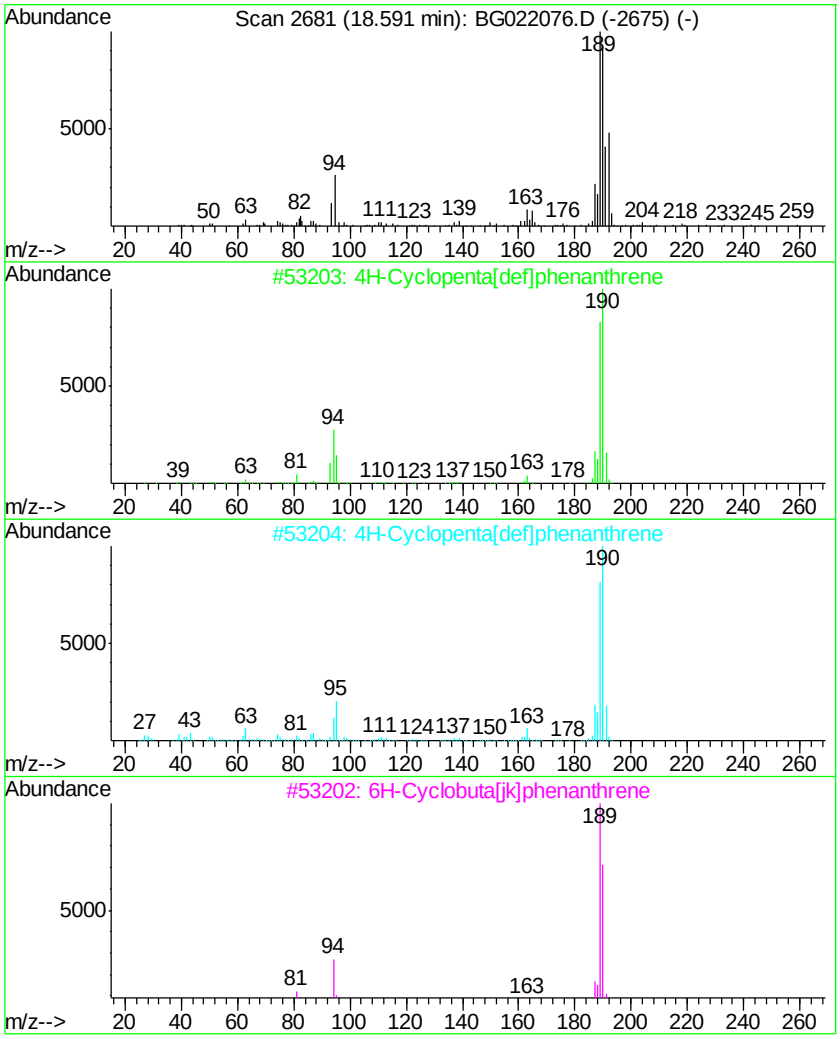
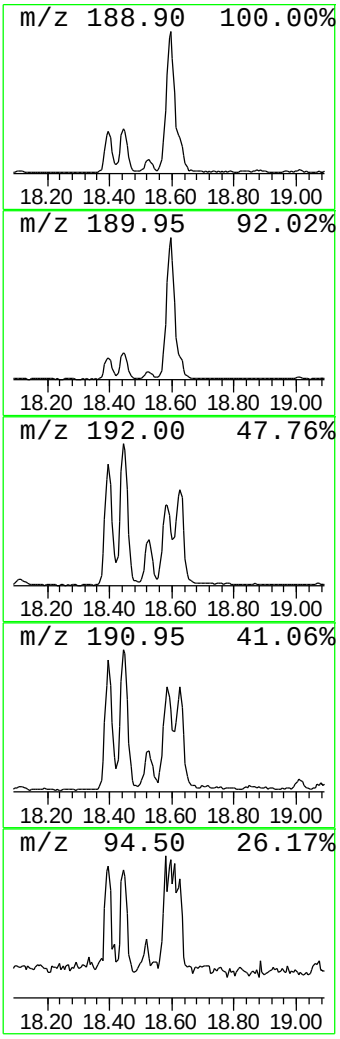
Peak Number 10 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.59 | 11.03 ng/ul | 280438 | Phenanthrene-d10 | 17.53 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 76 |
| 2 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 64 |
| 3 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 58 |
| 4 | 2,3,5,6-Tetramethylterephthalald... | 190 | C12H14O2 | 007072-01-7 | 43 |
| 5 | 2,2'-Bis(4,5-dimethylimidazole) | 190 | C10H14N4 | 069286-06-2 | 37 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG052616\
Data File : BG022076.D
Acq On : 26 May 2016 11:40
Operator : UM/SJ
Sample : H3124-20DL 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** JHGJ3DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG052116.M
Quant Title : SVOA CALIBRATION

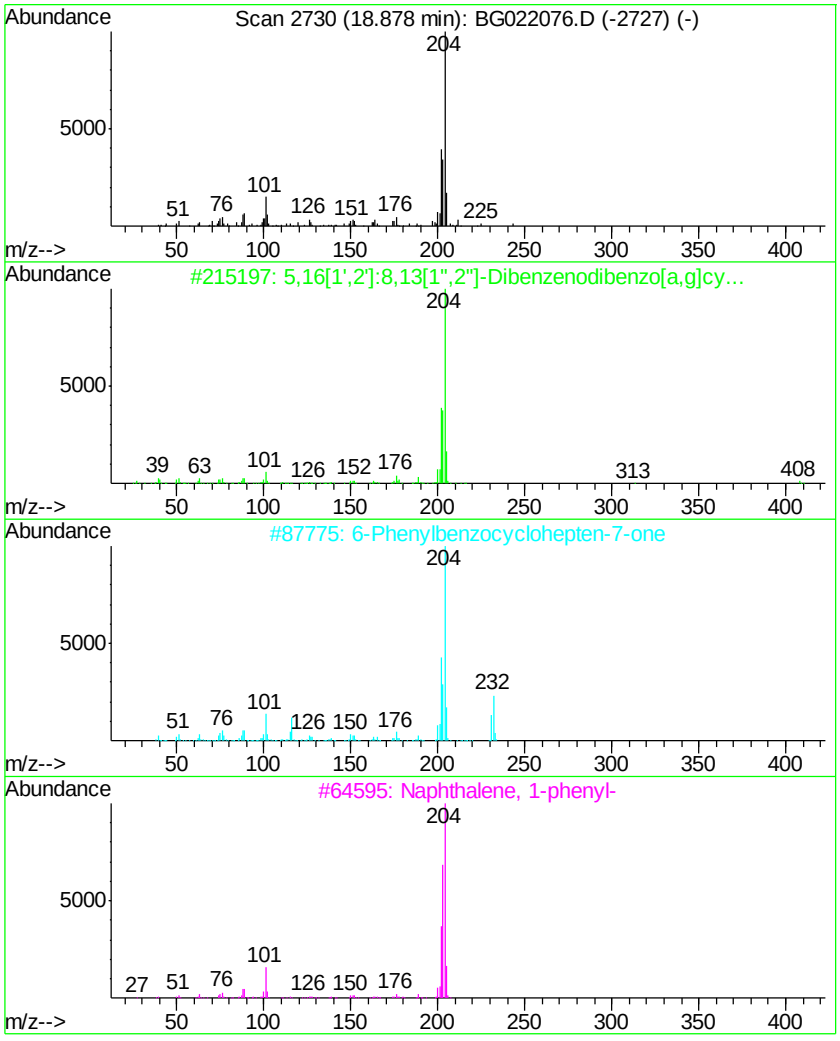
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

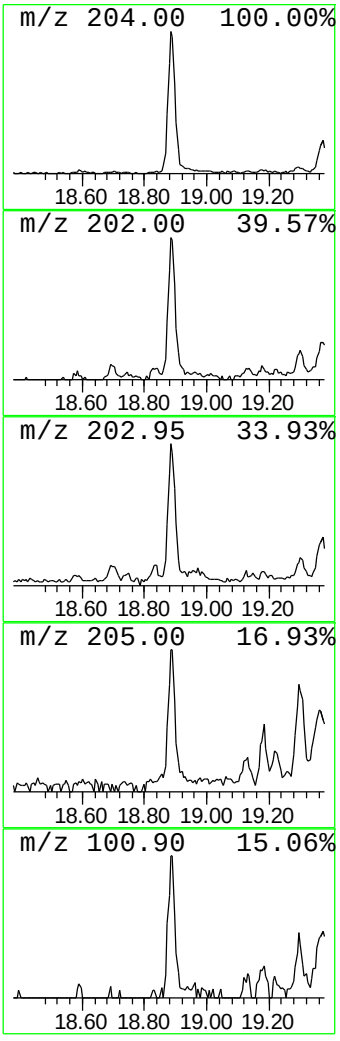
**********

Peak Number 11 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.88 | 3.36 ng/ul | 85376 | Phenanthrene-d10 | 17.53 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5,16[1',2']:8,13[1'',2'']-Dibenz... | 408 | C32H24 | 005672-97-9 | 90 |
| 2 | 6-Phenylbenzocyclohepten-7-one | 232 | C17H12O | 093327-56-1 | 83 |
| 3 | Naphthalene, 1-phenyl- | 204 | C16H12 | 000605-02-7 | 78 |
| 4 | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 | C16H12 | 006572-60-7 | 76 |
| 5 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 68 |



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Data File : BG022076.D
Acq On : 26 May 2016 11:40
Operator : UM/SJ
Sample : H3124-20DL 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** JHGJ3DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG052116.M
Quant Title : SVOA CALIBRATION

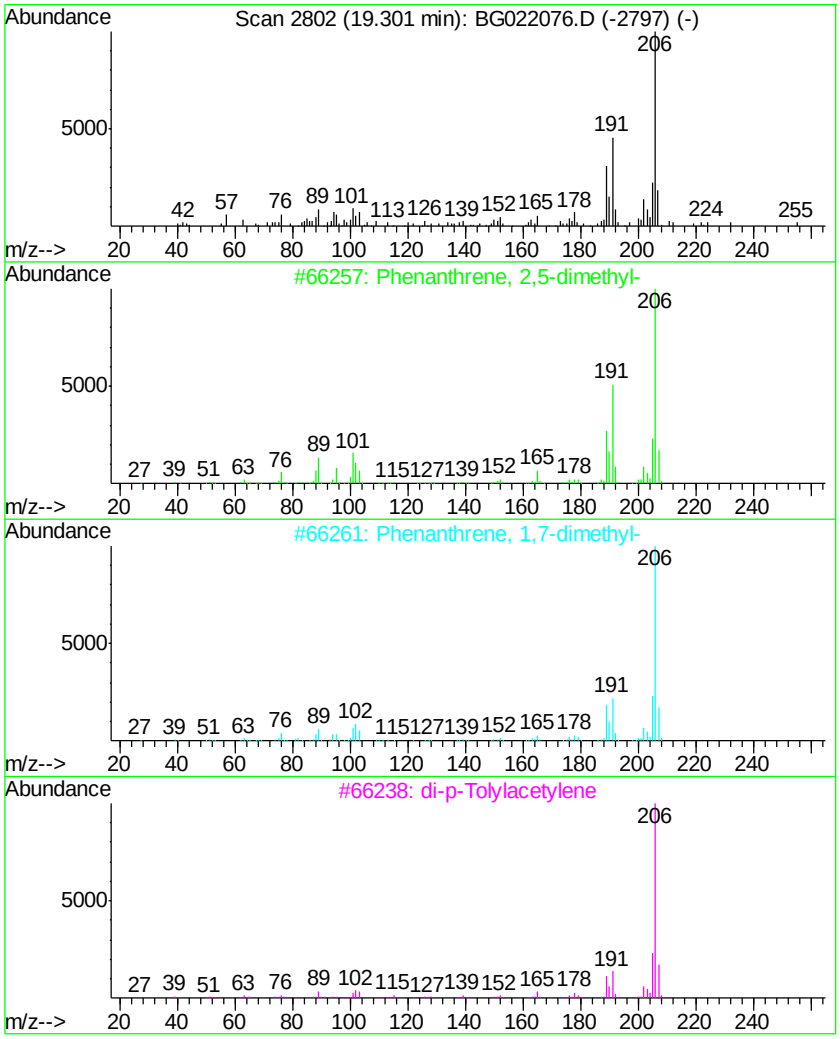
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

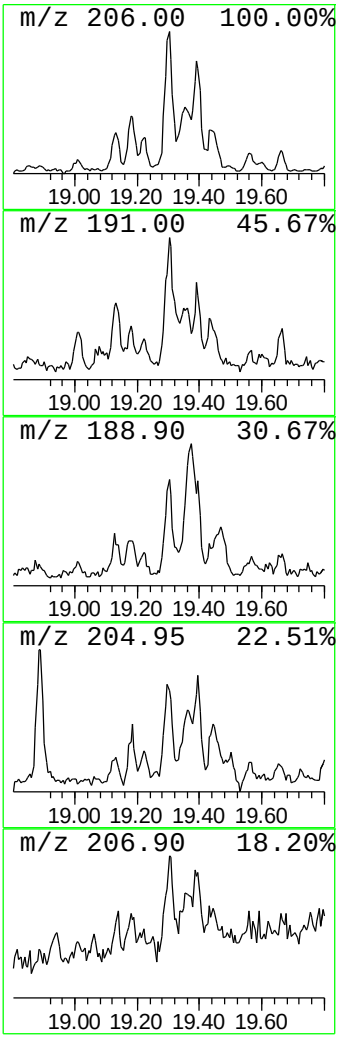
**********

Peak Number 12 Phenanthrene, 2,5-dimethyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.30 | 3.21 ng/ul | 81582 | Phenanthrene-d10 | 17.53 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 95 |
| 2 | Phenanthrene, 1,7-dimethyl- | 206 | C16H14 | 000483-87-4 | 94 |
| 3 | di-p-Tolylacetylene | 206 | C16H14 | 002789-88-0 | 94 |
| 4 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 93 |
| 5 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 91 |



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Data File : BG022076.D
Acq On : 26 May 2016 11:40
Operator : UM/SJ
Sample : H3124-20DL 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** JHGJ3DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG052116.M
Quant Title : SVOA CALIBRATION

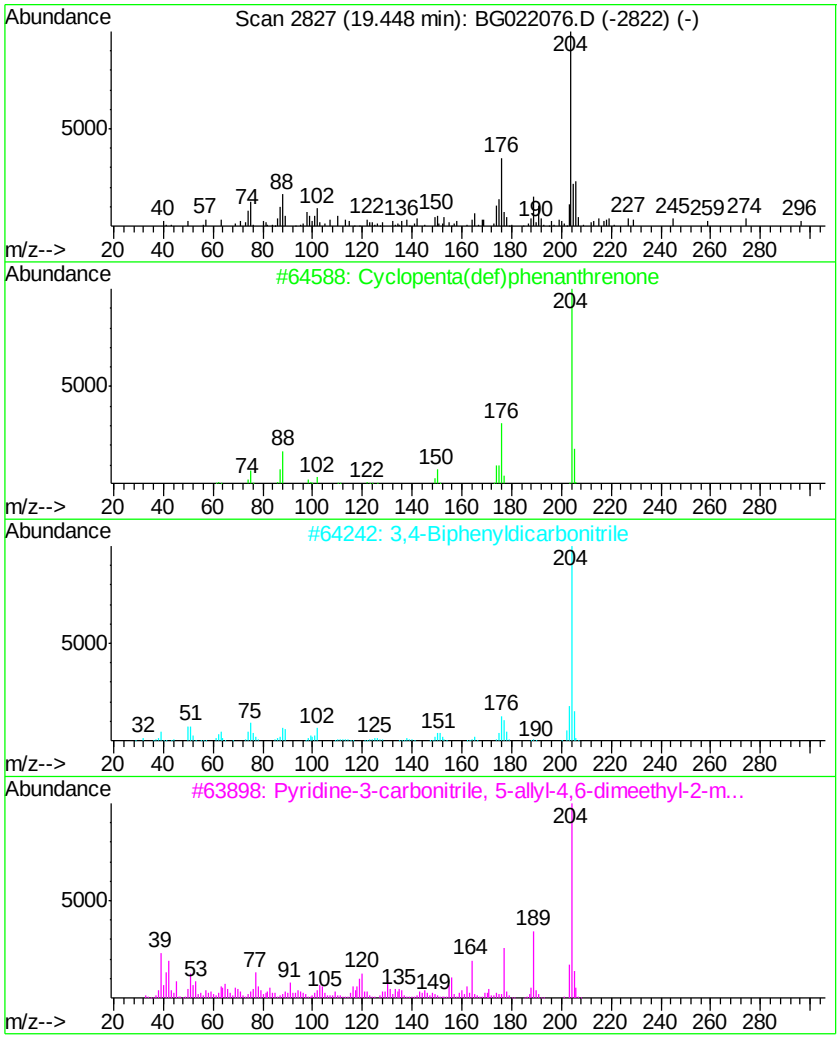
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

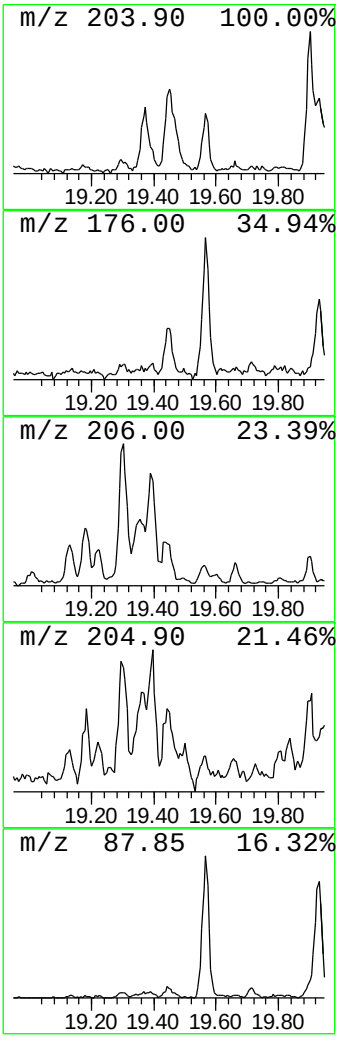
**********

Peak Number 13 Cyclopenta(def)phenanthrenone Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.45 | 2.36 ng/ul | 59900 | Phenanthrene-d10 | 17.53 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopenta(def)phenanthrenone | 204 | C15H8O | 005737-13-3 | 91 |
| 2 | 3,4-Biphenyldicarbonitrile | 204 | C14H8N2 | 004128-63-6 | 64 |
| 3 | Pyridine-3-carbonitrile, 5-allyl... | 204 | C11H12N2S | 186337-14-4 | 59 |
| 4 | 1,4-Naphthalenedione, 5,8-dihydr... | 204 | C11H8O4 | 014554-09-7 | 59 |
| 5 | 1,2,4-Triazolo[2,3-c]thieno[3,2-... | 204 | C9H8N4S | 113246-88-1 | 53 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG052616\
Data File : BG022076.D
Acq On : 26 May 2016 11:40
Operator : UM/SJ
Sample : H3124-20DL 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** JHGJ3DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG052116.M
Quant Title : SVOA CALIBRATION

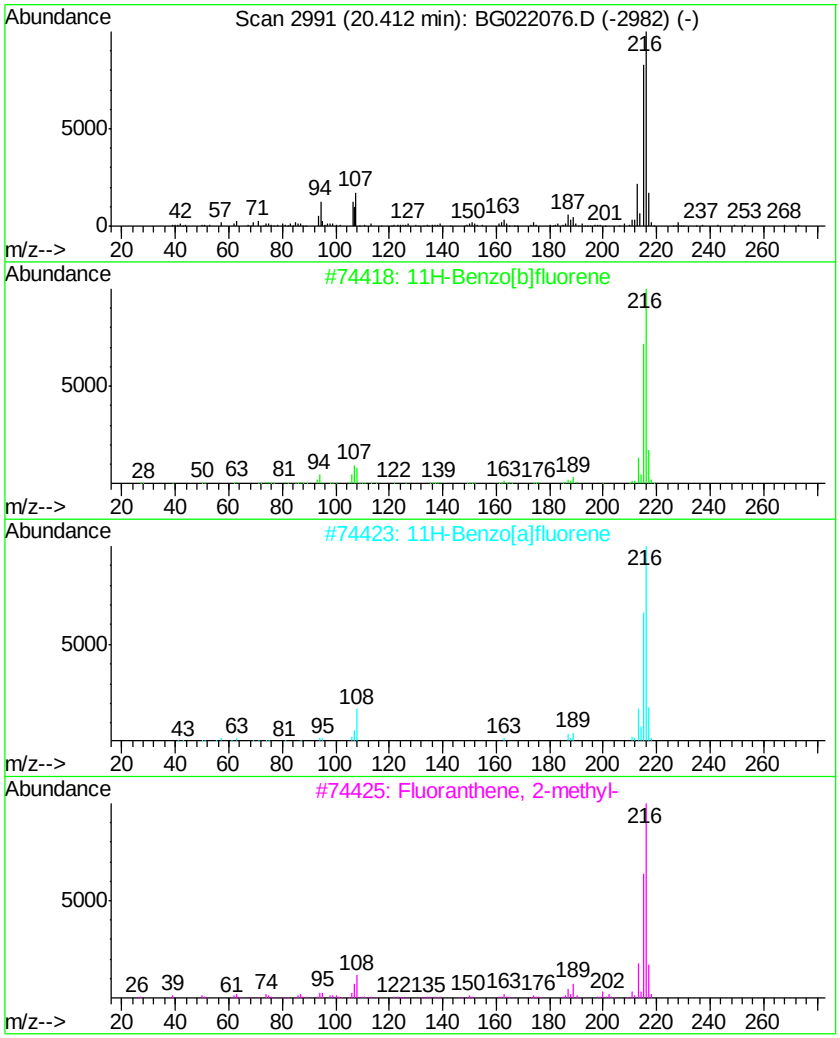
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

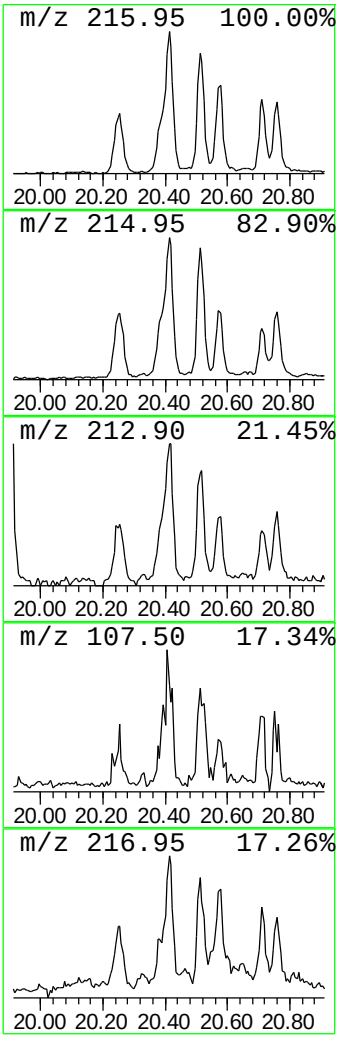
**********

Peak Number 14 11H-Benzo[b]fluorene Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.41 | 4.33 ng/ul | 192712 | Chrysene-d12 | 21.80 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 94 |
| 2 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 89 |
| 3 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 89 |
| 4 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 87 |
| 5 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 81 |



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Data File : BG022076.D
Acq On : 26 May 2016 11:40
Operator : UM/SJ
Sample : H3124-20DL 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** JHGJ3DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG052116.M
Quant Title : SVOA CALIBRATION

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

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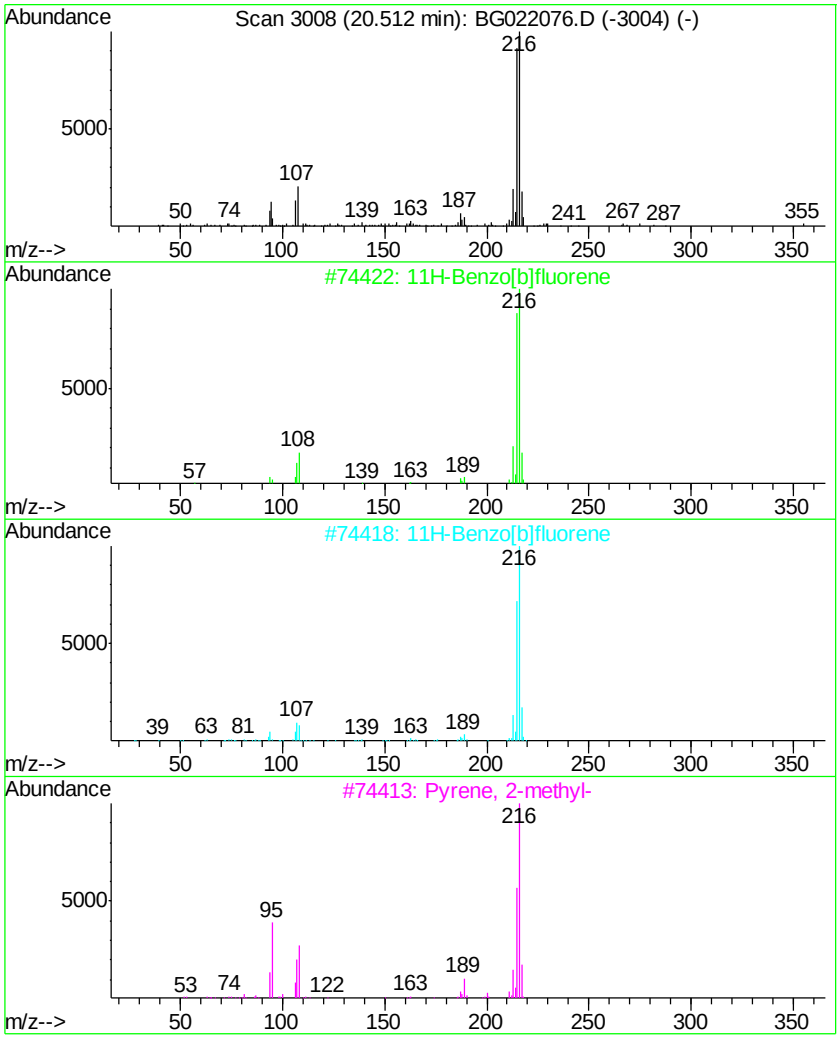
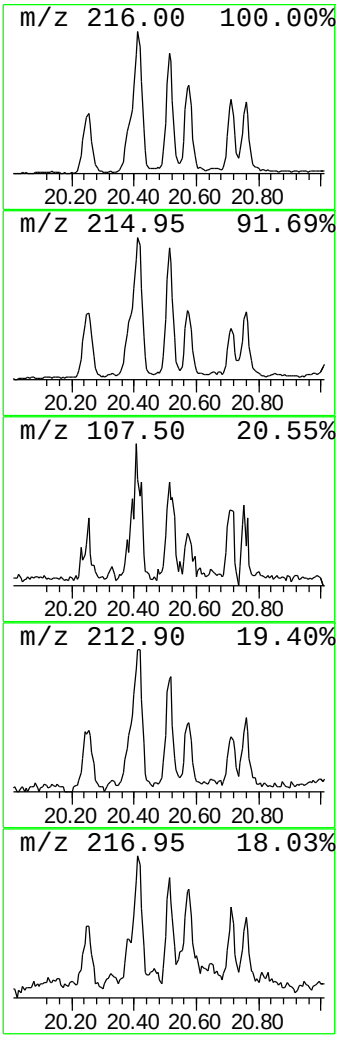
Peak Number 15 Pyrene, 2-methyl- Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.51 | 2.11 ng/ul | 94101 | Chrysene-d12 | 21.80 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 95 |
| 2 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 91 |
| 3 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 90 |
| 4 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 87 |
| 5 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 81 |



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Data File : BG022076.D
Acq On : 26 May 2016 11:40
Operator : UM/SJ
Sample : H3124-20DL 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** JHGJ3DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG052116.M
Quant Title : SVOA CALIBRATION

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

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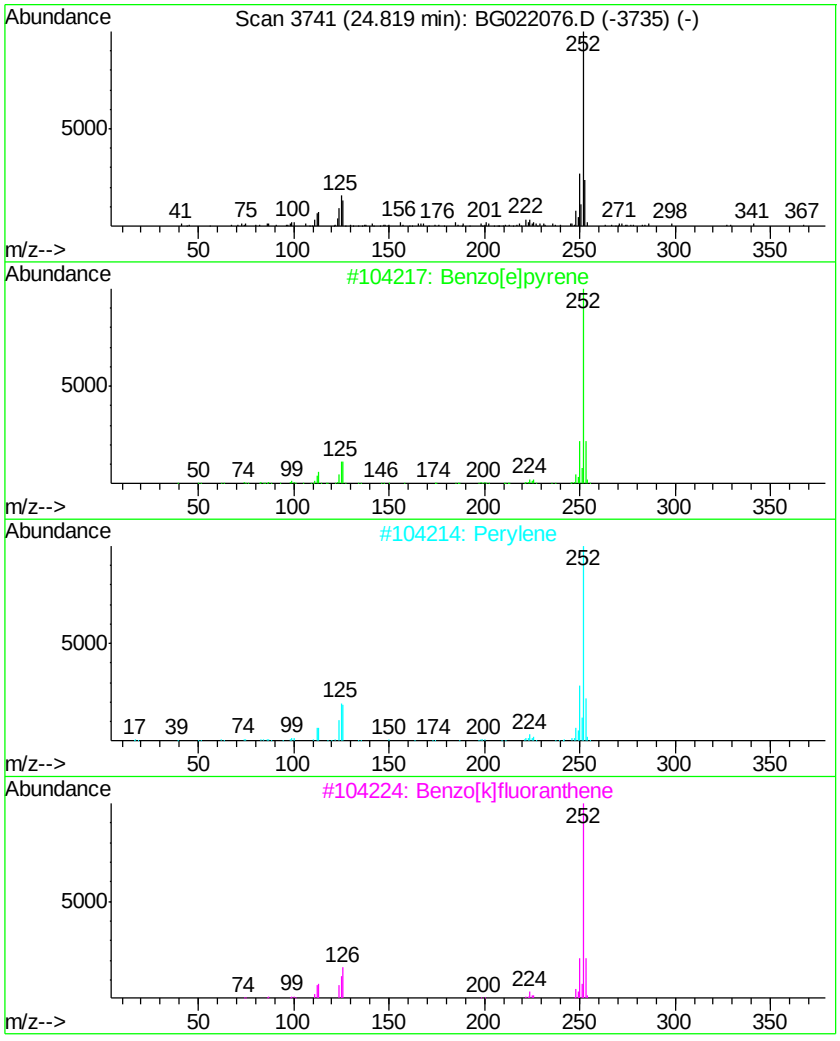
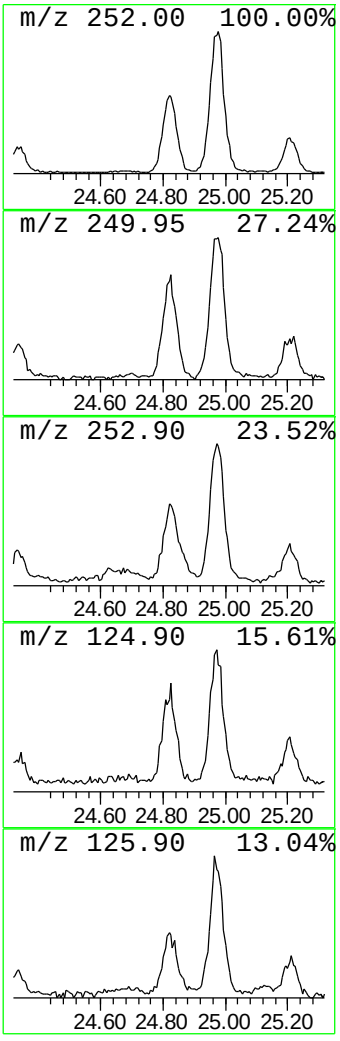
Peak Number 16 Benzo[e]pyrene Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 24.82 | 6.85 ng/ul | 141645 | Perylene-d12 | 25.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 98 |
| 2 | Perylene | 252 | C20H12 | 000198-55-0 | 97 |
| 3 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 93 |
| 4 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 93 |
| 5 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 90 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG052616\
Data File : BG022076.D
Acq On : 26 May 2016 11:40
Operator : UM/SJ
Sample : H3124-20DL 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** JHGJ3DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG052116.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 |
| Naphthalene, 2,7-... | 13.96 | 2.2 | ng/ul | 55421 | 3 | 14.78 | 509487 | 20.0 |
| Naphthalene, 1,7-... | 14.10 | 2.8 | ng/ul | 71089 | 3 | 14.78 | 509487 | 20.0 |
| Naphthalene, 2,3,... | 15.17 | 2.1 | ng/ul | 53229 | 3 | 14.78 | 509487 | 20.0 |
| (DEL) Alkane: Str... | 16.00 | 2.2 | ng/ul | 57091 | 3 | 14.78 | 509487 | 20.0 |
| (DEL) Alkane: Str... | 16.48 | 7.9 | ng/ul | 201894 | 4 | 17.53 | 508600 | 20.0 |
| (DEL) Alkane: Str... | 17.30 | 2.1 | ng/ul | 52876 | 4 | 17.53 | 508600 | 20.0 |
| 1H-Cyclopropa[l]p... | 18.40 | 5.8 | ng/ul | 147366 | 4 | 17.53 | 508600 | 20.0 |
| Phenanthrene, 2-m... | 18.44 | 7.2 | ng/ul | 183464 | 4 | 17.53 | 508600 | 20.0 |
| Phenanthrene, 1-m... | 18.53 | 2.4 | ng/ul | 59965 | 4 | 17.53 | 508600 | 20.0 |
| 4H-Cyclopenta[def... | 18.59 | 11.0 | ng/ul | 280438 | 4 | 17.53 | 508600 | 20.0 |
| 5,16[1',2']:8,13[... | 18.88 | 3.4 | ng/ul | 85376 | 4 | 17.53 | 508600 | 20.0 |
| Phenanthrene, 2,5... | 19.30 | 3.2 | ng/ul | 81582 | 4 | 17.53 | 508600 | 20.0 |
| Cyclopenta(def)ph... | 19.45 | 2.4 | ng/ul | 59900 | 4 | 17.53 | 508600 | 20.0 |
| 11H-Benzo[b]fluorene | 20.41 | 4.3 | ng/ul | 192712 | 5 | 21.80 | 890209 | 20.0 |
| Pyrene, 2-methyl- | 20.51 | 2.1 | ng/ul | 94101 | 5 | 21.80 | 890209 | 20.0 |
| Benzo[e]pyrene | 24.82 | 6.8 | ng/ul | 141645 | 6 | 25.14 | 413265 | 20.0 |