LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP030420\
Data File : BP002047.D
Acq On : 04 Mar 2020 12:53
Operator : CG/JU
Sample : L1616-14DL 2X
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :**

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:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP022720MA.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 | 2.917 | 3 | 5 | 20 | rVB | 835027 | 1166571 | 7.52% | 0.877% |
| 2 | 3.164 | 44 | 47 | 57 | rVB | 29536 | 47452 | 0.31% | 0.036% |
| 3 | 4.787 | 319 | 323 | 333 | rVB | 27761 | 44249 | 0.29% | 0.033% |
| 4 | 6.816 | 659 | 668 | 679 | rBV | 546377 | 902138 | 5.82% | 0.678% |
| 5 | 6.975 | 689 | 695 | 705 | rBV | 457190 | 732607 | 4.72% | 0.551% |
| 6 | 7.175 | 720 | 729 | 741 | rBV | 619838 | 975312 | 6.29% | 0.733% |
| 7 | 7.640 | 800 | 808 | 818 | rBV | 946760 | 1494468 | 9.64% | 1.123% |
| 8 | 8.175 | 890 | 899 | 911 | rBV | 97323 | 186673 | 1.20% | 0.140% |
| 9 | 8.346 | 921 | 928 | 937 | rBV | 654540 | 1076556 | 6.94% | 0.809% |
| 10 | 8.781 | 992 | 1002 | 1015 | rBV | 496157 | 817920 | 5.27% | 0.615% |
| 11 | 9.499 | 1116 | 1124 | 1133 | rBV | 381398 | 630415 | 4.07% | 0.474% |
| 12 | 10.034 | 1208 | 1215 | 1232 | rBV | 710052 | 1258643 | 8.12% | 0.946% |
| 13 | 10.410 | 1271 | 1279 | 1295 | rBV | 1316186 | 2177176 | 14.04% | 1.636% |
| 14 | 10.546 | 1295 | 1302 | 1321 | rBV | 345472 | 688495 | 4.44% | 0.517% |
| 15 | 11.916 | 1527 | 1535 | 1546 | rBV | 35800 | 85506 | 0.55% | 0.064% |
| 16 | 13.022 | 1717 | 1723 | 1732 | rBV4 | 23069 | 40343 | 0.26% | 0.030% |
| 17 | 13.687 | 1830 | 1836 | 1841 | rBV | 1244326 | 1744892 | 11.25% | 1.311% |
| 18 | 13.734 | 1841 | 1844 | 1850 | rVV | 112537 | 162630 | 1.05% | 0.122% |
| 19 | 13.963 | 1876 | 1883 | 1902 | rBV2 | 1537942 | 2596651 | 16.74% | 1.951% |
| 20 | 14.275 | 1929 | 1936 | 1943 | rBV | 2021966 | 2884611 | 18.60% | 2.168% |
| 21 | 14.475 | 1964 | 1970 | 1982 | rBV | 260936 | 505143 | 3.26% | 0.380% |
| 22 | 14.681 | 2001 | 2005 | 2017 | rVB | 19696 | 50993 | 0.33% | 0.038% |
| 23 | 15.269 | 2099 | 2105 | 2112 | rBV | 2011088 | 2930894 | 18.90% | 2.203% |
| 24 | 15.328 | 2112 | 2115 | 2121 | rVV | 40124 | 61619 | 0.40% | 0.046% |
| 25 | 15.392 | 2121 | 2126 | 2134 | rVV | 286325 | 406752 | 2.62% | 0.306% |
| 26 | 15.998 | 2223 | 2229 | 2237 | rBV | 58424 | 108027 | 0.70% | 0.081% |
| 27 | 16.610 | 2328 | 2333 | 2337 | rVB | 35431 | 50705 | 0.33% | 0.038% |
| 28 | 16.681 | 2341 | 2345 | 2354 | rVB | 47210 | 85931 | 0.55% | 0.065% |
| 29 | 16.945 | 2385 | 2390 | 2396 | rBV | 70830 | 102718 | 0.66% | 0.077% |
| 30 | 17.028 | 2398 | 2404 | 2408 | rBV | 2405934 | 3361743 | 21.68% | 2.526% |
| 31 | 17.069 | 2408 | 2411 | 2415 | rVV | 229201 | 311069 | 2.01% | 0.234% |
| 32 | 17.122 | 2415 | 2420 | 2424 | rVV | 2101403 | 3172547 | 20.46% | 2.384% |
| 33 | 17.157 | 2424 | 2426 | 2433 | rVV | 1116924 | 1393689 | 8.99% | 1.047% |
| 34 | 17.222 | 2433 | 2437 | 2448 | rVB | 61017 | 109889 | 0.71% | 0.083% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP030420\
Data File : BP002047.D
Acq On : 04 Mar 2020 12:53
Operator : CG/JU
Sample : L1616-14DL 2X
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :**

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:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP022720MA.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 17.428 | 2463 | 2472 | 2485 | rBV | 367221 | 723896 | 4.67% | 0.544% |
| 36 | 17.945 | 2556 | 2560 | 2568 | rBV2 | 223585 | 347815 | 2.24% | 0.261% |
| 37 | 18.028 | 2569 | 2574 | 2579 | rVV | 108653 | 167685 | 1.08% | 0.126% |
| 38 | 18.092 | 2579 | 2585 | 2596 | rVB3 | 181177 | 374584 | 2.42% | 0.282% |
| 39 | 18.192 | 2599 | 2602 | 2607 | rBV4 | 32611 | 69734 | 0.45% | 0.052% |
| 40 | 18.239 | 2607 | 2610 | 2613 | rVV5 | 42624 | 70208 | 0.45% | 0.053% |
| 41 | 18.275 | 2613 | 2616 | 2621 | rVB | 89755 | 134349 | 0.87% | 0.101% |
| 42 | 18.369 | 2627 | 2632 | 2637 | rBV3 | 171133 | 258587 | 1.67% | 0.194% |
| 43 | 18.422 | 2637 | 2641 | 2648 | rVB | 344292 | 453086 | 2.92% | 0.341% |
| 44 | 18.510 | 2654 | 2656 | 2663 | rVB5 | 36047 | 42857 | 0.28% | 0.032% |
| 45 | 18.716 | 2688 | 2691 | 2695 | rVB | 47402 | 57308 | 0.37% | 0.043% |
| 46 | 18.792 | 2700 | 2704 | 2710 | rBV3 | 109606 | 189034 | 1.22% | 0.142% |
| 47 | 18.857 | 2712 | 2715 | 2718 | rVV3 | 60034 | 79946 | 0.52% | 0.060% |
| 48 | 18.922 | 2722 | 2726 | 2735 | rVV | 338190 | 515674 | 3.33% | 0.388% |
| 49 | 19.045 | 2742 | 2747 | 2754 | rVB | 3287609 | 4340330 | 27.99% | 3.262% |
| 50 | 19.139 | 2760 | 2763 | 2767 | rVB | 106493 | 138083 | 0.89% | 0.104% |
| 51 | 19.192 | 2768 | 2772 | 2776 | rVB2 | 197704 | 268456 | 1.73% | 0.202% |
| 52 | 19.263 | 2780 | 2784 | 2786 | rBV | 118341 | 150459 | 0.97% | 0.113% |
| 53 | 19.369 | 2797 | 2802 | 2804 | rBV2 | 3157446 | 4154105 | 26.79% | 3.122% |
| 54 | 19.398 | 2804 | 2807 | 2816 | rVV | 4471847 | 6155605 | 39.69% | 4.626% |
| 55 | 19.474 | 2816 | 2820 | 2827 | rVB4 | 111239 | 200048 | 1.29% | 0.150% |
| 56 | 19.574 | 2834 | 2837 | 2841 | rBV | 181874 | 259394 | 1.67% | 0.195% |
| 57 | 19.633 | 2842 | 2847 | 2853 | rVB | 959932 | 1307934 | 8.43% | 0.983% |
| 58 | 19.722 | 2857 | 2862 | 2867 | rBV3 | 347529 | 732029 | 4.72% | 0.550% |
| 59 | 19.769 | 2867 | 2870 | 2874 | rVB | 131419 | 175415 | 1.13% | 0.132% |
| 60 | 19.851 | 2880 | 2884 | 2885 | rBV2 | 433131 | 499998 | 3.22% | 0.376% |
| 61 | 19.927 | 2894 | 2897 | 2901 | rBV | 272713 | 342360 | 2.21% | 0.257% |
| 62 | 19.980 | 2902 | 2906 | 2910 | rVV | 340044 | 447138 | 2.88% | 0.336% |
| 63 | 20.033 | 2910 | 2915 | 2919 | rVV2 | 558648 | 953557 | 6.15% | 0.717% |
| 64 | 20.074 | 2920 | 2922 | 2926 | rVB2 | 177930 | 211523 | 1.36% | 0.159% |
| 65 | 20.174 | 2935 | 2939 | 2943 | rBV | 396596 | 516172 | 3.33% | 0.388% |
| 66 | 20.221 | 2943 | 2947 | 2951 | rVV2 | 246723 | 395814 | 2.55% | 0.297% |
| 67 | 20.427 | 2979 | 2982 | 2986 | rBV5 | 130795 | 234814 | 1.51% | 0.176% |
| 68 | 20.616 | 3010 | 3014 | 3020 | rVB2 | 518679 | 782262 | 5.04% | 0.588% |
| 69 | 20.774 | 3036 | 3041 | 3045 | rBV2 | 549627 | 963510 | 6.21% | 0.724% |
| 70 | 20.816 | 3045 | 3048 | 3051 | rVV2 | 647257 | 805959 | 5.20% | 0.606% |
| 71 | 20.851 | 3051 | 3054 | 3059 | rVV2 | 1030710 | 1767029 | 11.39% | 1.328% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP030420\
Data File : BP002047.D
Acq On : 04 Mar 2020 12:53
Operator : CG/JU
Sample : L1616-14DL 2X
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :**

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:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP022720MA.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 20.904 | 3060 | 3063 | 3071 | rVB2 | 424600 | 624240 | 4.03% | 0.469% |
| 73 | 21.116 | 3094 | 3099 | 3104 | rBV2 | 3537495 | 8190709 | 52.82% | 6.155% |
| 74 | 21.157 | 3104 | 3106 | 3114 | rVB | 3132785 | 4057946 | 26.17% | 3.050% |
| 75 | 21.239 | 3118 | 3120 | 3123 | rBV3 | 144874 | 160887 | 1.04% | 0.121% |
| 76 | 21.274 | 3123 | 3126 | 3135 | rBV2 | 442718 | 908528 | 5.86% | 0.683% |
| 77 | 21.421 | 3148 | 3151 | 3157 | rBV2 | 516613 | 748053 | 4.82% | 0.562% |
| 78 | 21.480 | 3158 | 3161 | 3168 | rVB3 | 226282 | 375733 | 2.42% | 0.282% |
| 79 | 21.663 | 3190 | 3192 | 3196 | rVB | 450938 | 553847 | 3.57% | 0.416% |
| 80 | 21.721 | 3198 | 3202 | 3209 | rVV3 | 633358 | 983222 | 6.34% | 0.739% |
| 81 | 21.857 | 3221 | 3225 | 3229 | rBV2 | 503272 | 773755 | 4.99% | 0.581% |
| 82 | 21.963 | 3239 | 3243 | 3247 | rVB2 | 246813 | 395444 | 2.55% | 0.297% |
| 83 | 22.127 | 3268 | 3271 | 3275 | rBV | 285434 | 405790 | 2.62% | 0.305% |
| 84 | 22.316 | 3300 | 3303 | 3307 | rVB | 504907 | 649074 | 4.19% | 0.488% |
| 85 | 22.427 | 3314 | 3322 | 3332 | rVB3 | 425019 | 1378744 | 8.89% | 1.036% |
| 86 | 22.533 | 3335 | 3340 | 3345 | rVB2 | 512518 | 848569 | 5.47% | 0.638% |
| 87 | 22.674 | 3357 | 3364 | 3380 | rBV | 5155427 | 15508046 | 100.00% | 11.655% |
| 88 | 22.839 | 3388 | 3392 | 3403 | rVB | 690058 | 1098830 | 7.09% | 0.826% |
| 89 | 22.968 | 3410 | 3414 | 3422 | rBV | 327415 | 726193 | 4.68% | 0.546% |
| 90 | 23.145 | 3438 | 3444 | 3448 | rBV | 2601109 | 4842828 | 31.23% | 3.639% |
| 91 | 23.192 | 3448 | 3452 | 3456 | rVV | 1798210 | 3251881 | 20.97% | 2.444% |
| 92 | 23.239 | 3456 | 3460 | 3468 | rVV | 2043894 | 3941178 | 25.41% | 2.962% |
| 93 | 23.333 | 3469 | 3476 | 3481 | rVV | 2035626 | 3996086 | 25.77% | 3.003% |
| 94 | 23.380 | 3481 | 3484 | 3493 | rVB2 | 752173 | 1473597 | 9.50% | 1.107% |
| 95 | 23.915 | 3571 | 3575 | 3582 | rVB | 335280 | 605886 | 3.91% | 0.455% |
| 96 | 25.321 | 3809 | 3814 | 3824 | rVB4 | 499073 | 1231081 | 7.94% | 0.925% |
| 97 | 25.562 | 3845 | 3855 | 3869 | rVB3 | 1970844 | 7664103 | 49.42% | 5.760% |
| 98 | 25.868 | 3901 | 3907 | 3922 | rVB3 | 718529 | 2190374 | 14.12% | 1.646% |
| 99 | 26.239 | 3961 | 3970 | 3988 | rVB | 1001417 | 3181603 | 20.52% | 2.391% |
| 100 | 26.398 | 3992 | 3997 | 4014 | rVB | 171864 | 646355 | 4.17% | 0.486% |

Sum of corrected areas: 133064366

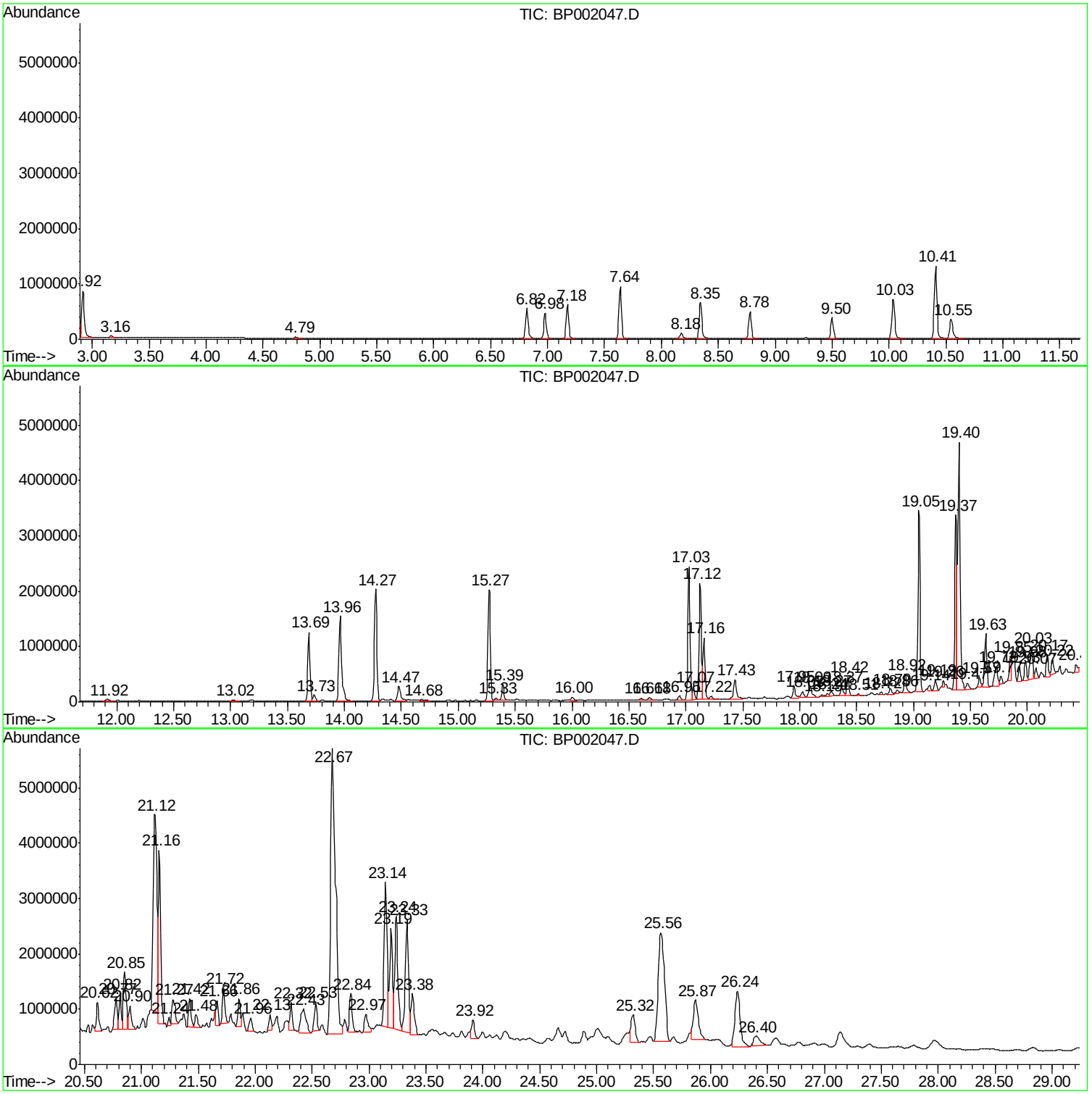
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP030420\
Data File : BP002047.D
Acq On : 04 Mar 2020 12:53
Operator : CG/JU
Sample : L1616-14DL 2X
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP022720MA.M
Quant Title : SVOA CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA_P\DATA\BP030420\
Data File : BP002047.D
Acq On : 04 Mar 2020 12:53
Operator : CG/JU
Sample : L1616-14DL 2X
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :**

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP022720MA.M
Quant Title : SVOA CALIBRATION

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

**********
Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.92 | 15.61 ng/ul | 1166570 | 1,4-Dichlorobenzene-d4 | 7.64 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methoxy-2-methyl- | 102 | C6H14O | 000994-05-8 | 78 |
| 2 | Butane, 2-methoxy-2-methyl- | 102 | C6H14O | 000994-05-8 | 74 |
| 3 | 2,2,4-Trimethyl-3-pentanol | 130 | C8H18O | 005162-48-1 | 39 |
| 4 | Pentane, 3-methoxy- | 102 | C6H14O | 036839-67-5 | 23 |
| 5 | Silane, tetramethyl- | 88 | C4H12Si | 000075-76-3 | 9 |

**********
Peak Number 2 Indene Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.18 | 2.50 ng/ul | 186673 | 1,4-Dichlorobenzene-d4 | 7.64 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Indene | 116 | C9H8 | 000095-13-6 | 97 |
| 2 | Benzene, 1-propynyl- | 116 | C9H8 | 000673-32-5 | 95 |
| 3 | 3-Methylphenylacetylene | 116 | C9H8 | 000766-82-5 | 94 |
| 4 | Benzene, 1-propynyl- | 116 | C9H8 | 000673-32-5 | 91 |
| 5 | Benzene, 1-ethynyl-4-methyl- | 116 | C9H8 | 000766-97-2 | 91 |

**********
Peak Number 3 n-Hexadecanoic acid Concentration Rank 21

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.95 | 2.07 ng/ul | 347815 | Phenanthrene-d10 | 17.03 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 98 |
| 2 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 98 |
| 3 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 70 |
| 4 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 64 |
| 5 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 64 |

**********
Peak Number 4 4H-Cyclopenta[def]phenanthrene Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|

Data Path : Z:\SVOASRV\HPCHEM1\BNA_P\DATA\BP030420\
Data File : BP002047.D
Acq On : 04 Mar 2020 12:53
Operator : CG/JU
Sample : L1616-14DL 2X
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :**

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP022720MA.M
Quant Title : SVOA CALIBRATION

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

| | | | | |
|---|---|---|---|---|
| 18.09 | 2.23 ng/ul | 374584 | Phenanthrene-d10 | 17.03 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 70 |
| 2 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 52 |
| 3 | 2,3,5,6-Tetramethylterephthalald... | 190 | C12H14O2 | 007072-01-7 | 47 |
| 4 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 46 |
| 5 | Methyl diselenide | 190 | C2H6Se2 | 007101-31-7 | 45 |

**********

Peak Number 5 9,10-Anthracenedione Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.42 | 2.70 ng/ul | 453086 | Phenanthrene-d10 | 17.03 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 97 |
| 2 | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 95 |
| 3 | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 94 |
| 4 | Benzo[c]cinnoline | 180 | C12H8N2 | 000230-17-1 | 70 |
| 5 | Benzo[c]cinnoline | 180 | C12H8N2 | 000230-17-1 | 70 |

**********

Peak Number 6 Spiro[cyclopropane-1,8'(1H'... Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.92 | 3.07 ng/ul | 515674 | Phenanthrene-d10 | 17.03 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Spiro[cyclopropane-1,8'(1H')[3a.... | 204 | C14H20O | 452049-62-6 | 95 |
| 2 | Cyclopenta(def)phenanthrenone | 204 | C15H8O | 005737-13-3 | 93 |
| 3 | 3'-Carboxybenzo[1',2',-b]-1,4-di... | 204 | C11H12N2O2 | 138023-41-3 | 53 |
| 4 | [1,1'-Biphenyl]-2,2'-dicarbonitrile | 204 | C14H8N2 | 004341-02-0 | 50 |
| 5 | Quinoline, 8-methoxy-5-nitro- | 204 | C10H8N2O3 | 1000298-88-7 | 49 |

**********

Peak Number 7 Indeno(1,2,3-ij)isoquinoline Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.63 | 3.19 ng/ul | 1307930 | Chrysene-d12 | 21.12 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|

Data Path : Z:\SVOASRV\HPCHEM1\BNA_P\DATA\BP030420\
Data File : BP002047.D
Acq On : 04 Mar 2020 12:53
Operator : CG/JU
Sample : L1616-14DL 2X
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :**

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP022720MA.M
Quant Title : SVOA CALIBRATION

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

| | | | | | |
|---|---|---|---|---|---|
| 1 | Indeno(1,2,3-ij)isoquinoline | 203 | C15H9N | 000206-56-4 | 97 |
| 2 | Naphtho(2,1,8-def)quinoline | 203 | C15H9N | 000313-80-4 | 97 |
| 3 | 9-Anthracenecarbonitrile | 203 | C15H9N | 001210-12-4 | 97 |
| 4 | Indeno(1,2,3-ij)isoquinoline | 203 | C15H9N | 000206-56-4 | 97 |
| 5 | 9-(Cyanomethylene)fluorene | 203 | C15H9N | 004425-74-5 | 96 |

**********

Peak Number 8 Pyrene, 1-methyl- Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.03 | 2.33 ng/ul | 953557 | Chrysene-d12 | 21.12 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 64 |
| 2 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 50 |
| 3 | 1-Pyrenemethanol | 232 | C17H12O | 024463-15-8 | 46 |
| 4 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 46 |
| 5 | Pyrene, 4-methyl- | 216 | C17H12 | 003353-12-6 | 46 |

**********

Peak Number 9 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.77 | 2.35 ng/ul | 963510 | Chrysene-d12 | 21.12 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[b]naphtho[2,1-d]thiophene | 234 | C16H10S | 000239-35-0 | 96 |
| 2 | Benzo[b]naphtho[2,3-d]thiophene | 234 | C16H10S | 000243-46-9 | 95 |
| 3 | Benzo[b]naphtho[2,3-d]thiophene | 234 | C16H10S | 000243-46-9 | 95 |
| 4 | Benzo[b]naphtho[2,1-d]thiophene | 234 | C16H10S | 000239-35-0 | 94 |
| 5 | Benzo[b]naphtho[2,1-d]thiophene | 234 | C16H10S | 000239-35-0 | 94 |

**********

Peak Number 10 Cyclopenta[cd]pyrene Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.85 | 4.31 ng/ul | 1767030 | Chrysene-d12 | 21.12 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopenta[cd]pyrene | 226 | C18H10 | 027208-37-3 | 94 |
| 2 | .beta.-Carboline, 7-methoxy-1,2-... | 226 | C14H14N2O | 006519-18-2 | 58 |
| 3 | 1,8-Diazacyclotetradecane-2,7-dione | 226 | C12H22N2O2 | 004266-66-4 | 38 |

Data Path : Z:\SVOASRV\HPCHEM1\BNA_P\DATA\BP030420\
Data File : BP002047.D
Acq On : 04 Mar 2020 12:53
Operator : CG/JU
Sample : L1616-14DL 2X
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP022720MA.M
Quant Title : SVOA CALIBRATION

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

| | | | | |
|---|---|---|---|---|
| 4 | 1,3-Diamino-5,6-dihydro-7-methyl... | 226 | C13H14N4 | 037436-37-6 33 |
| 5 | 9H-Xanthen-9-one, 2-methoxy- | 226 | C14H10O3 | 001214-20-6 33 |

**********

Peak Number 11 Cyclopenta(cd)pyrene, 3,4-d... Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.27 | 2.22 ng/ul | 908528 | Chrysene-d12 | 21.12 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopenta(cd)pyrene, 3,4-dihydro- | 228 | C18H12 | 025732-74-5 | 95 |
| 2 | Benzo[c]phenanthrene | 228 | C18H12 | 000195-19-7 | 55 |
| 3 | Dimethyl-[4-[2-(3-methylisoxazol... | 228 | C14H16N2O | 1000306-39-6 | 52 |
| 4 | Pyrazole-4-carboxaldehyde-, 3,5-... | 228 | C14H16N2O | 1000272-54-8 | 50 |
| 5 | Diphenylvinylphosphine oxide | 228 | C14H13OP | 002096-78-8 | 50 |

**********

Peak Number 12 Benz(a)anthracene-7,12-dione Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.72 | 2.40 ng/ul | 983222 | Chrysene-d12 | 21.12 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benz(a)anthracene-7,12-dione | 258 | C18H10O2 | 002498-66-0 | 94 |
| 2 | 5,12-Naphthacenedione | 258 | C18H10O2 | 001090-13-7 | 93 |
| 3 | 5,12-Naphthacenedione | 258 | C18H10O2 | 001090-13-7 | 86 |
| 4 | Benz(a)anthracene-7,12-dione | 258 | C18H10O2 | 002498-66-0 | 83 |
| 5 | Piperazine, 1-methyl-4-(1,2,3,4-... | 258 | C17H26N2 | 055591-14-5 | 56 |

**********

Peak Number 13 Supraene Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 22.32 | 3.25 ng/ul | 649074 | Perylene-d12 | 23.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Supraene | 410 | C30H50 | 007683-64-9 | 87 |
| 2 | Squalene | 410 | C30H50 | 000111-02-4 | 87 |
| 3 | Squalene | 410 | C30H50 | 000111-02-4 | 87 |
| 4 | Squalene | 410 | C30H50 | 000111-02-4 | 80 |
| 5 | Squalene | 410 | C30H50 | 000111-02-4 | 74 |

Data Path : Z:\SVOASRV\HPCHEM1\BNA_P\DATA\BP030420\
Data File : BP002047.D
Acq On : 04 Mar 2020 12:53
Operator : CG/JU
Sample : L1616-14DL 2X
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :**

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP022720MA.M
Quant Title : SVOA CALIBRATION

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

**********

Peak Number 14 Benz(a)anthracene-7-carboni... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 22.43 | 6.90 ng/ul | 1378740 | Perylene-d12 | 23.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benz(a)anthracene-7-carbonitrile | 253 | C19H11N | 007476-08-6 | 90 |
| 2 | Imidazole, 2-iodo-5-methyl-4-nitro- | 253 | C4H4IN3O2 | 149510-86-1 | 46 |
| 3 | 2(1H)-Quinolinone, 3-hydroxy-4-(... | 253 | C15H11NO3 | 014484-44-7 | 45 |
| 4 | Ethyl 4-(5-methyl-1,1-dioxido-4-... | 373 | C19H19NO5S | 1000294-64-6 | 40 |
| 5 | 1,2'-Binaphthalene | 254 | C20H14 | 004325-74-0 | 40 |

**********

Peak Number 15 Chrysin Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 22.53 | 4.25 ng/ul | 848569 | Perylene-d12 | 23.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Chrysin | 254 | C15H10O4 | 000480-40-0 | 52 |
| 2 | 2,6-Di(2-furylmethylidene)cycloh... | 254 | C16H14O3 | 000893-00-5 | 50 |
| 3 | 2,6-(Etheno[1,4]benzenoetheno)na... | 254 | C20H14 | 117054-70-3 | 50 |
| 4 | Chrysin | 254 | C15H10O4 | 000480-40-0 | 43 |
| 5 | 3-Phenylthio-2H-chromen-2-one | 254 | C15H10O2S | 072167-95-4 | 43 |

**********

Peak Number 16 Benzo[e]pyrene Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 22.84 | 5.50 ng/ul | 1098830 | Perylene-d12 | 23.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 97 |
| 2 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 95 |
| 3 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 93 |
| 4 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 91 |
| 5 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 90 |

**********

Peak Number 17 Dinaphtho[1,2-b:1',2'-d]furan Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|

Data Path : Z:\SVOASRV\HPCHEM1\BNA_P\DATA\BP030420\
Data File : BP002047.D
Acq On : 04 Mar 2020 12:53
Operator : CG/JU
Sample : L1616-14DL 2X
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :**

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP022720MA.M
Quant Title : SVOA CALIBRATION

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 22.97 | 3.63 ng/ul | 726193 | Perylene-d12 | 23.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dinaphtho[1,2-b:1',2'-d]furan | 268 | C20H12O | 000207-93-2 | 76 |
| 2 | Dinaphtho[2,1-b:1',2'-d]furan | 268 | C20H12O | 000194-63-8 | 68 |
| 3 | Dinaphtho[1,2-b:1',2'-d]furan | 268 | C20H12O | 000207-93-2 | 68 |
| 4 | Benzo(a)pyrene 4,5-oxide | 268 | C20H12O | 037574-47-3 | 64 |
| 5 | 10-Hydroxy-5-methoxy-2-methyl-1,... | 268 | C16H12O4 | 084542-45-0 | 58 |

**********

Peak Number 18 (DEL) Alkane: Straight-Chai... Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 23.92 | 3.03 ng/ul | 605886 | Perylene-d12 | 23.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heneicosane | 296 | C21H44 | 000629-94-7 | 95 |
| 2 | Heptadecane, 9-octyl- | 352 | C25H52 | 007225-64-1 | 93 |
| 3 | 2-methyloctacosane | 408 | C29H60 | 1000376-72-8 | 91 |
| 4 | 2-methyltetracosane | 352 | C25H52 | 1000376-72-6 | 90 |
| 5 | Heneicosane | 296 | C21H44 | 000629-94-7 | 87 |

**********

Peak Number 19 unknown-01 Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 25.87 | 10.96 ng/ul | 2190370 | Perylene-d12 | 23.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 8-Bromo-1,2,3,4-tetrahydro-1-met... | 342 | C17H15BrN2O | 063563-58-6 | 38 |
| 2 | 5-(p-Aminophenyl)-4-(4-biphenyly... | 343 | C21H17N3S | 094863-57-7 | 38 |
| 3 | 4-(4-Amino-6-piperidin-1-yl-[1,3... | 343 | C17H21N5O3 | 1000276-02-9 | 28 |
| 4 | Benzoic acid, 4-(3,4,5-trimethox... | 343 | C19H21NO5 | 304683-21-4 | 25 |
| 5 | 1,3,9,11,2,10-Parazabol, 2,2,10,... | 372 | C22H30B2N4 | 1000157-80-0 | 23 |

**********

Peak Number 20 .beta.-Sitosterol Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 26.40 | 3.23 ng/ul | 646355 | Perylene-d12 | 23.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|

Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_P\DATA\BP030420\
Data File : BP002047.D
Acq On : 04 Mar 2020 12:53
Operator : CG/JU
Sample : L1616-14DL 2X
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP022720MA.M
Quant Title : SVOA CALIBRATION

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

| | | | | | |
|---|---|---|---|---|---|
| 1 | .beta.-Sitosterol | 414 | C29H50O | 000083-46-5 | 83 |
| 2 | .gamma.-Sitosterol | 414 | C29H50O | 000083-47-6 | 64 |
| 3 | .gamma.-Sitosterol | 414 | C29H50O | 000083-47-6 | 60 |
| 4 | .beta.-Sitosterol acetate | 456 | C31H52O2 | 000915-05-9 | 46 |
| 5 | 22,26-Oxido-4,17-cholestadien-3.... | 414 | C27H42O3 | 1000252-80-4 | 25 |

Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_P\DATA\BP030420\
Data File : BP002047.D
Acq On : 04 Mar 2020 12:53
Operator : CG/JU
Sample : L1616-14DL 2X
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP022720MA.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 |
| Butane, 2-methoxy... | 2.92 | 15.6 | ng/ul | 1166570 | 1 | 7.64 | 1494470 | 20.0 |
| Indene | 8.18 | 2.5 | ng/ul | 186673 | 1 | 7.64 | 1494470 | 20.0 |
| n-Hexadecanoic acid | 17.95 | 2.1 | ng/ul | 347815 | 4 | 17.03 | 3361740 | 20.0 |
| 4H-Cyclopenta[def... | 18.09 | 2.2 | ng/ul | 374584 | 4 | 17.03 | 3361740 | 20.0 |
| 9,10-Anthracenedione | 18.42 | 2.7 | ng/ul | 453086 | 4 | 17.03 | 3361740 | 20.0 |
| Spiro[cyclopropan... | 18.92 | 3.1 | ng/ul | 515674 | 4 | 17.03 | 3361740 | 20.0 |
| Indeno(1,2,3-ij)i... | 19.63 | 3.2 | ng/ul | 1307930 | 5 | 21.12 | 8190710 | 20.0 |
| Pyrene, 1-methyl- | 20.03 | 2.3 | ng/ul | 953557 | 5 | 21.12 | 8190710 | 20.0 |
| Benzo[b]naphtho[2... | 20.77 | 2.4 | ng/ul | 963510 | 5 | 21.12 | 8190710 | 20.0 |
| Cyclopenta[cd]pyrene | 20.85 | 4.3 | ng/ul | 1767030 | 5 | 21.12 | 8190710 | 20.0 |
| Cyclopenta(cd)pyr... | 21.27 | 2.2 | ng/ul | 908528 | 5 | 21.12 | 8190710 | 20.0 |
| Benz(a)anthracene... | 21.72 | 2.4 | ng/ul | 983222 | 5 | 21.12 | 8190710 | 20.0 |
| Supraene | 22.32 | 3.3 | ng/ul | 649074 | 6 | 23.33 | 3996090 | 20.0 |
| Benz(a)anthracene... | 22.43 | 6.9 | ng/ul | 1378740 | 6 | 23.33 | 3996090 | 20.0 |
| Chrysin | 22.53 | 4.3 | ng/ul | 848569 | 6 | 23.33 | 3996090 | 20.0 |
| Benzo[e]pyrene | 22.84 | 5.5 | ng/ul | 1098830 | 6 | 23.33 | 3996090 | 20.0 |
| Dinaphtho[1,2-b:1... | 22.97 | 3.6 | ng/ul | 726193 | 6 | 23.33 | 3996090 | 20.0 |
| (DEL) Alkane: Str... | 23.92 | 3.0 | ng/ul | 605886 | 6 | 23.33 | 3996090 | 20.0 |
| unknown-01 | 25.87 | 11.0 | ng/ul | 2190370 | 6 | 23.33 | 3996090 | 20.0 |
| .beta.-Sitosterol | 26.40 | 3.2 | ng/ul | 646355 | 6 | 23.33 | 3996090 | 20.0 |