LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081920\
Data File : BG046368.D
Acq On : 20 Aug 2020 6:49
Operator : CG/JU
Sample : L3633-03
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMA1

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_G\METHODS\SOM-EPA-BG081320PAH.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 | 3.141 | 5 | 9 | 27 | rVB | 1265701 | 2010353 | 50.80% | 3.572% |
| 2 | 3.916 | 136 | 141 | 149 | rVV | 56710 | 83200 | 2.10% | 0.148% |
| 3 | 7.107 | 675 | 684 | 698 | rBV | 271524 | 495538 | 12.52% | 0.880% |
| 4 | 7.265 | 705 | 711 | 723 | rBV | 230936 | 384358 | 9.71% | 0.683% |
| 5 | 7.471 | 740 | 746 | 753 | rBV | 294690 | 517707 | 13.08% | 0.920% |
| 6 | 7.535 | 753 | 757 | 772 | rVB | 24820 | 56657 | 1.43% | 0.101% |
| 7 | 7.941 | 819 | 826 | 833 | rBV | 339561 | 562020 | 14.20% | 0.999% |
| 8 | 8.646 | 938 | 946 | 960 | rBV | 330173 | 576124 | 14.56% | 1.024% |
| 9 | 9.092 | 1014 | 1022 | 1033 | rBV | 278127 | 492914 | 12.46% | 0.876% |
| 10 | 9.815 | 1138 | 1145 | 1154 | rBV | 237842 | 414932 | 10.48% | 0.737% |
| 11 | 10.356 | 1230 | 1237 | 1253 | rBV | 375506 | 689609 | 17.43% | 1.225% |
| 12 | 10.738 | 1293 | 1302 | 1307 | rBV | 475088 | 858480 | 21.69% | 1.525% |
| 13 | 10.785 | 1307 | 1310 | 1316 | rVV2 | 28949 | 47704 | 1.21% | 0.085% |
| 14 | 10.867 | 1316 | 1324 | 1342 | rVV | 211714 | 421797 | 10.66% | 0.749% |
| 15 | 12.394 | 1578 | 1584 | 1590 | rVB | 22446 | 35905 | 0.91% | 0.064% |
| 16 | 12.612 | 1612 | 1621 | 1629 | rVB2 | 21134 | 37836 | 0.96% | 0.067% |
| 17 | 13.893 | 1832 | 1839 | 1843 | rBV2 | 20152 | 34907 | 0.88% | 0.062% |
| 18 | 13.969 | 1843 | 1852 | 1856 | rVV | 708195 | 1044526 | 26.39% | 1.856% |
| 19 | 14.016 | 1856 | 1860 | 1866 | rVV | 365170 | 529106 | 13.37% | 0.940% |
| 20 | 14.257 | 1892 | 1901 | 1917 | rBV | 812751 | 1425103 | 36.01% | 2.532% |
| 21 | 14.568 | 1945 | 1954 | 1960 | rBV | 791910 | 1255943 | 31.74% | 2.232% |
| 22 | 14.627 | 1960 | 1964 | 1972 | rVB | 52511 | 82544 | 2.09% | 0.147% |
| 23 | 14.762 | 1981 | 1987 | 2000 | rVV | 180104 | 337216 | 8.52% | 0.599% |
| 24 | 14.962 | 2016 | 2021 | 2030 | rVV2 | 53075 | 94800 | 2.40% | 0.168% |
| 25 | 15.561 | 2115 | 2123 | 2128 | rVV | 1104056 | 1724288 | 43.57% | 3.064% |
| 26 | 15.614 | 2128 | 2132 | 2136 | rVV3 | 70372 | 108220 | 2.73% | 0.192% |
| 27 | 15.673 | 2136 | 2142 | 2150 | rVV | 267911 | 425188 | 10.74% | 0.755% |
| 28 | 15.796 | 2157 | 2163 | 2166 | rVV3 | 16841 | 43361 | 1.10% | 0.077% |
| 29 | 15.908 | 2177 | 2182 | 2191 | rVV | 36767 | 65338 | 1.65% | 0.116% |
| 30 | 16.055 | 2201 | 2207 | 2215 | rVV | 36151 | 77610 | 1.96% | 0.138% |
| 31 | 16.290 | 2240 | 2247 | 2253 | rBV7 | 21989 | 42862 | 1.08% | 0.076% |
| 32 | 16.848 | 2333 | 2342 | 2345 | rBV3 | 30644 | 58830 | 1.49% | 0.105% |
| 33 | 16.960 | 2356 | 2361 | 2369 | rVB | 101354 | 170551 | 4.31% | 0.303% |
| 34 | 17.042 | 2369 | 2375 | 2385 | rBV8 | 29010 | 104537 | 2.64% | 0.186% |

LSC Area Percent Report

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Acq On : 20 Aug 2020 6:49
Operator : CG/JU
Sample : L3633-03
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMA1

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_G\METHODS\SOM-EPA-BG081320PAH.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 17.130 | 2385 | 2390 | 2399 | rVB | 54545 | 100254 | 2.53% | 0.178% |
| 36 | 17.306 | 2410 | 2420 | 2424 | rBV | 980121 | 1566098 | 39.57% | 2.783% |
| 37 | 17.353 | 2424 | 2428 | 2432 | rVB | 1000833 | 1360145 | 34.37% | 2.417% |
| 38 | 17.406 | 2432 | 2437 | 2442 | rBV | 1124611 | 1679349 | 42.43% | 2.984% |
| 39 | 17.494 | 2448 | 2452 | 2458 | rVB4 | 21906 | 38240 | 0.97% | 0.068% |
| 40 | 17.624 | 2470 | 2474 | 2479 | rVB2 | 24334 | 39898 | 1.01% | 0.071% |
| 41 | 17.706 | 2479 | 2488 | 2493 | rBV2 | 81770 | 158936 | 4.02% | 0.282% |
| 42 | 17.829 | 2504 | 2509 | 2515 | rVV4 | 42272 | 66942 | 1.69% | 0.119% |
| 43 | 17.888 | 2515 | 2519 | 2529 | rVB2 | 48108 | 77172 | 1.95% | 0.137% |
| 44 | 18.105 | 2552 | 2556 | 2560 | rBV2 | 24619 | 35501 | 0.90% | 0.063% |
| 45 | 18.188 | 2564 | 2570 | 2573 | rBV | 182878 | 282163 | 7.13% | 0.501% |
| 46 | 18.235 | 2573 | 2578 | 2583 | rVB | 254419 | 394865 | 9.98% | 0.702% |
| 47 | 18.311 | 2586 | 2591 | 2596 | rBV | 57268 | 85114 | 2.15% | 0.151% |
| 48 | 18.376 | 2596 | 2602 | 2606 | rBV3 | 226932 | 425044 | 10.74% | 0.755% |
| 49 | 18.417 | 2606 | 2609 | 2615 | rVB | 149861 | 198808 | 5.02% | 0.353% |
| 50 | 18.505 | 2617 | 2624 | 2626 | rBV5 | 26765 | 51585 | 1.30% | 0.092% |
| 51 | 18.681 | 2649 | 2654 | 2657 | rBV | 179905 | 252691 | 6.39% | 0.449% |
| 52 | 18.716 | 2657 | 2660 | 2668 | rVV | 202120 | 319224 | 8.07% | 0.567% |
| 53 | 18.810 | 2672 | 2676 | 2682 | rBV3 | 20418 | 45560 | 1.15% | 0.081% |
| 54 | 18.928 | 2688 | 2696 | 2700 | rBV3 | 71695 | 125638 | 3.17% | 0.223% |
| 55 | 18.981 | 2701 | 2705 | 2708 | rVV | 65734 | 96637 | 2.44% | 0.172% |
| 56 | 19.016 | 2708 | 2711 | 2715 | rVB | 56312 | 76801 | 1.94% | 0.136% |
| 57 | 19.098 | 2720 | 2725 | 2730 | rVV | 205682 | 331424 | 8.37% | 0.589% |
| 58 | 19.163 | 2730 | 2736 | 2738 | rVV5 | 78766 | 176187 | 4.45% | 0.313% |
| 59 | 19.192 | 2738 | 2741 | 2744 | rVV | 73716 | 98295 | 2.48% | 0.175% |
| 60 | 19.233 | 2744 | 2748 | 2756 | rVB | 176242 | 308446 | 7.79% | 0.548% |
| 61 | 19.363 | 2764 | 2770 | 2777 | rVB | 2015982 | 2779020 | 70.22% | 4.938% |
| 62 | 19.427 | 2777 | 2781 | 2783 | rBV | 48558 | 66530 | 1.68% | 0.118% |
| 63 | 19.463 | 2783 | 2787 | 2791 | rVB2 | 63460 | 98454 | 2.49% | 0.175% |
| 64 | 19.510 | 2791 | 2795 | 2799 | rBV | 106189 | 147941 | 3.74% | 0.263% |
| 65 | 19.557 | 2799 | 2803 | 2806 | rBV2 | 70091 | 97232 | 2.46% | 0.173% |
| 66 | 19.604 | 2808 | 2811 | 2814 | rVV | 43715 | 46440 | 1.17% | 0.083% |
| 67 | 19.692 | 2820 | 2826 | 2829 | rBV2 | 1698632 | 2823869 | 71.35% | 5.017% |
| 68 | 19.721 | 2829 | 2831 | 2839 | rVV | 1931954 | 2586966 | 65.37% | 4.596% |
| 69 | 19.798 | 2839 | 2844 | 2849 | rVB2 | 105954 | 192153 | 4.86% | 0.341% |
| 70 | 19.897 | 2857 | 2861 | 2867 | rBV | 107988 | 150857 | 3.81% | 0.268% |
| 71 | 19.956 | 2868 | 2871 | 2878 | rVB4 | 74423 | 119614 | 3.02% | 0.213% |

LSC Area Percent Report

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Operator : CG/JU
Sample : L3633-03
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMA1

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_G\METHODS\SOM-EPA-BG081320PAH.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 20.033 | 2878 | 2884 | 2893 | rBV4 | 318919 | 853130 | 21.56% | 1.516% |
| 73 | 20.179 | 2905 | 2909 | 2910 | rBV2 | 144742 | 180672 | 4.57% | 0.321% |
| 74 | 20.215 | 2912 | 2915 | 2919 | rVB | 256039 | 329912 | 8.34% | 0.586% |
| 75 | 20.315 | 2928 | 2932 | 2935 | rBV | 114372 | 156281 | 3.95% | 0.278% |
| 76 | 20.373 | 2936 | 2942 | 2946 | rVV2 | 272382 | 443513 | 11.21% | 0.788% |
| 77 | 20.450 | 2953 | 2955 | 2961 | rVB4 | 50918 | 77026 | 1.95% | 0.137% |
| 78 | 20.508 | 2961 | 2965 | 2969 | rBV | 189315 | 271124 | 6.85% | 0.482% |
| 79 | 20.555 | 2969 | 2973 | 2978 | rVB | 177522 | 240865 | 6.09% | 0.428% |
| 80 | 20.967 | 3039 | 3043 | 3050 | rVB | 293200 | 446331 | 11.28% | 0.793% |
| 81 | 21.143 | 3067 | 3073 | 3077 | rBV2 | 186302 | 410122 | 10.36% | 0.729% |
| 82 | 21.190 | 3077 | 3081 | 3084 | rVV | 241652 | 337418 | 8.53% | 0.600% |
| 83 | 21.231 | 3084 | 3088 | 3093 | rVV2 | 257201 | 463161 | 11.70% | 0.823% |
| 84 | 21.290 | 3094 | 3098 | 3107 | rVB2 | 257583 | 432234 | 10.92% | 0.768% |
| 85 | 21.548 | 3135 | 3142 | 3148 | rBV3 | 1552576 | 3957534 | 100.00% | 7.032% |
| 86 | 21.601 | 3148 | 3151 | 3163 | rVB | 1079794 | 1792965 | 45.31% | 3.186% |
| 87 | 21.754 | 3173 | 3177 | 3182 | rBV3 | 95058 | 212893 | 5.38% | 0.378% |
| 88 | 21.813 | 3183 | 3187 | 3194 | rVB3 | 132240 | 262934 | 6.64% | 0.467% |
| 89 | 21.948 | 3206 | 3210 | 3217 | rBV3 | 107320 | 215243 | 5.44% | 0.382% |
| 90 | 22.195 | 3249 | 3252 | 3256 | rBV4 | 51938 | 78996 | 2.00% | 0.140% |
| 91 | 22.265 | 3261 | 3264 | 3271 | rVV2 | 233088 | 410133 | 10.36% | 0.729% |
| 92 | 22.342 | 3272 | 3277 | 3283 | rVB2 | 184833 | 376114 | 9.50% | 0.668% |
| 93 | 22.530 | 3305 | 3309 | 3313 | rBV2 | 102493 | 161526 | 4.08% | 0.287% |
| 94 | 23.687 | 3497 | 3506 | 3513 | rBV2 | 853425 | 2758199 | 69.69% | 4.901% |
| 95 | 23.928 | 3542 | 3547 | 3558 | rVB | 169006 | 386852 | 9.78% | 0.687% |
| 96 | 24.380 | 3617 | 3624 | 3630 | rBV | 480619 | 1186893 | 29.99% | 2.109% |
| 97 | 24.457 | 3630 | 3637 | 3642 | rVV | 771357 | 1899974 | 48.01% | 3.376% |
| 98 | 24.521 | 3643 | 3648 | 3661 | rVB | 756031 | 1915757 | 48.41% | 3.404% |
| 99 | 24.662 | 3664 | 3672 | 3680 | rBV2 | 630874 | 1757523 | 44.41% | 3.123% |
| 100 | 28.182 | 4261 | 4271 | 4291 | rVB3 | 307297 | 1456757 | 36.81% | 2.588% |

Sum of corrected areas: 56282239

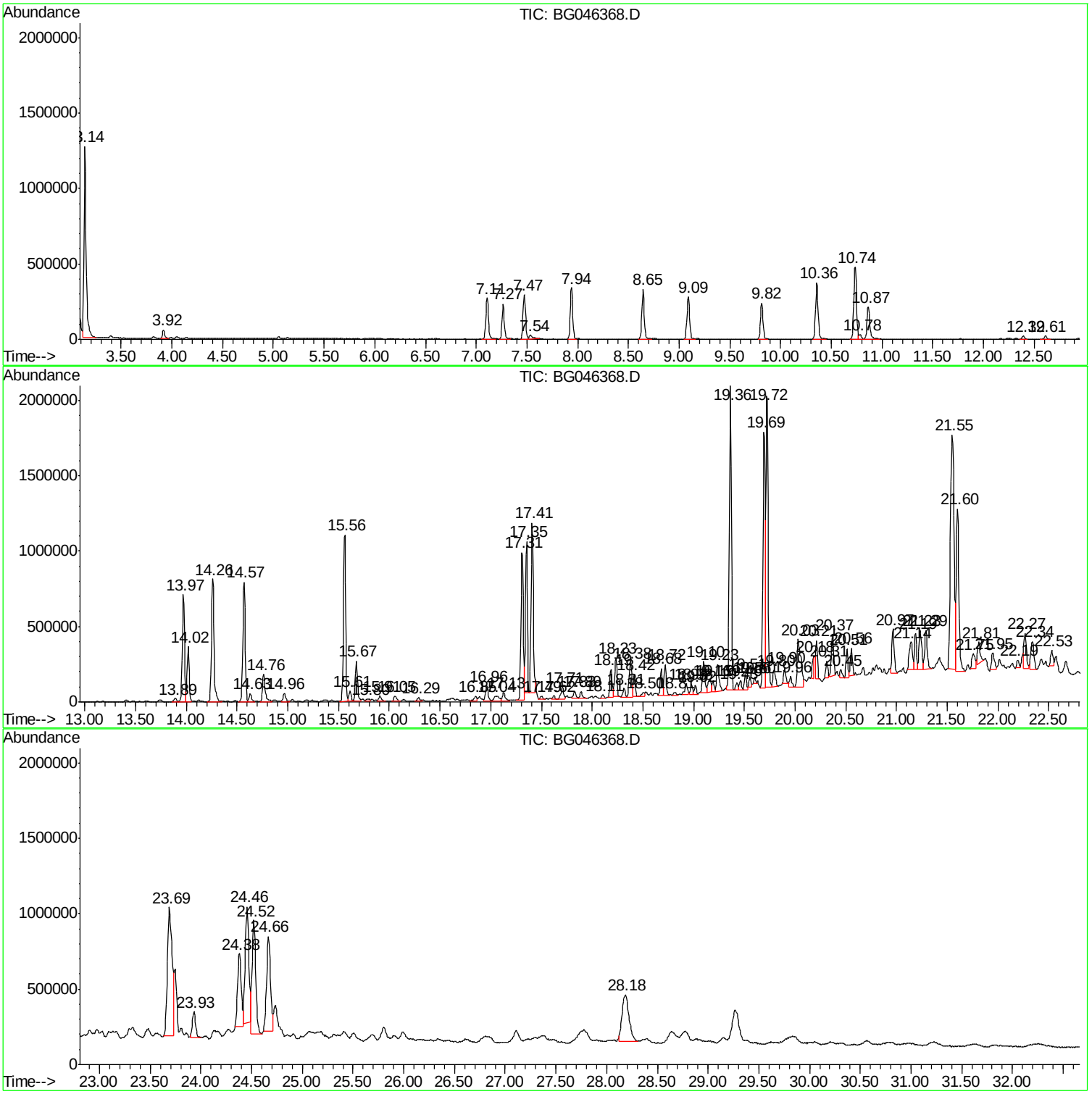
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081920\
Data File : BG046368.D
Acq On : 20 Aug 2020 6:49
Operator : CG/JU
Sample : L3633-03
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMA1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

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



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081920\
Data File : BG046368.D
Acq On : 20 Aug 2020 6:49
Operator : CG/JU
Sample : L3633-03
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMA1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

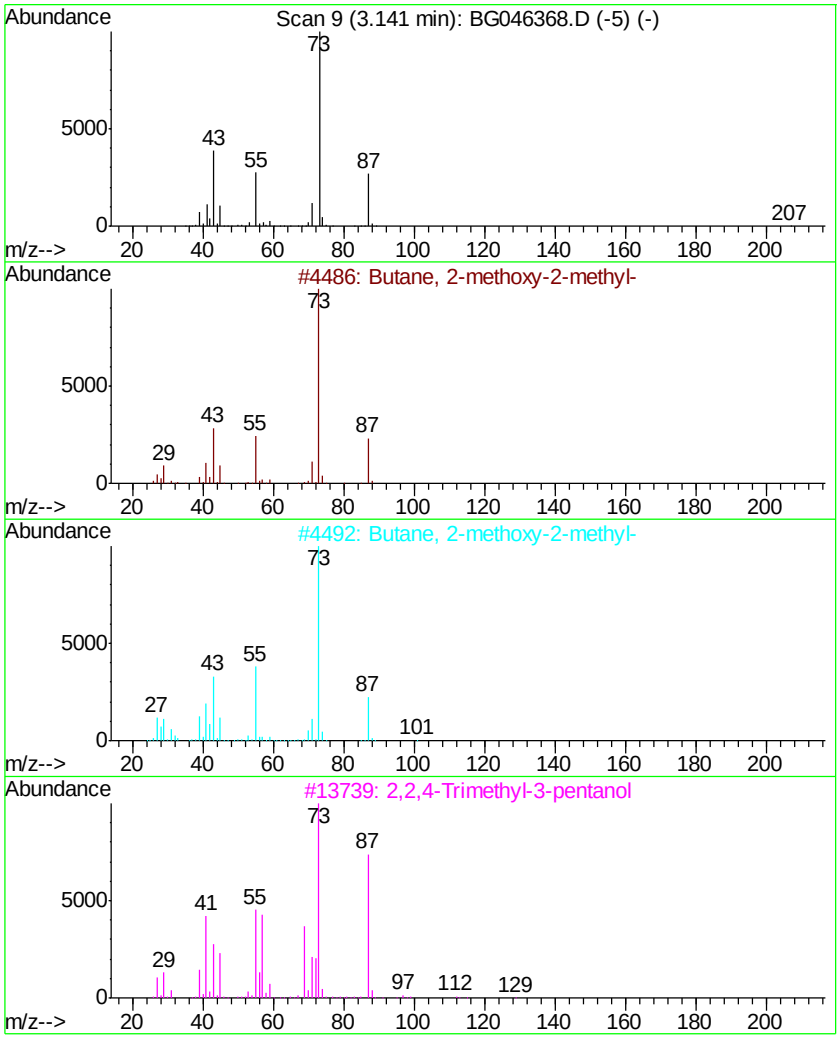
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

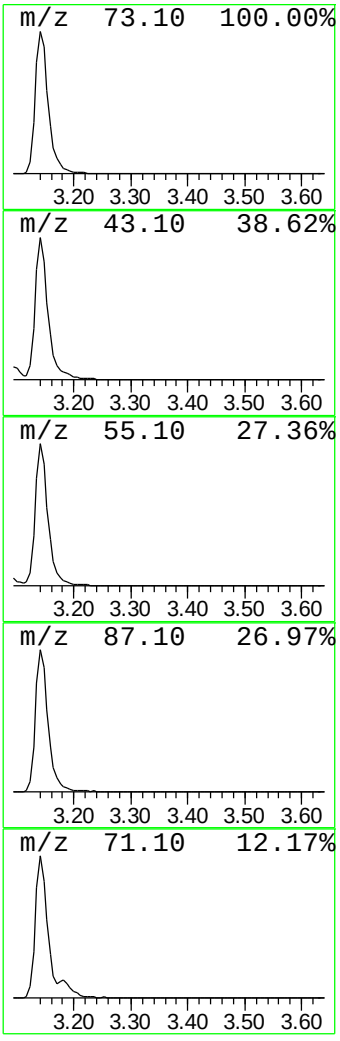
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.14 | 71.54 ng/ul | 2010350 | 1,4-Dichlorobenzene-d4 | 7.94 |

| 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 | 72 |
| 3 | 2,2,4-Trimethyl-3-pentanol | 130 | C8H18O | 005162-48-1 | 38 |
| 4 | 2,2,4-Trimethyl-3-pentanol | 130 | C8H18O | 005162-48-1 | 38 |
| 5 | 1,3-Dioxolane, 2-methyl- | 88 | C4H8O2 | 000497-26-7 | 38 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081920\
Data File : BG046368.D
Acq On : 20 Aug 2020 6:49
Operator : CG/JU
Sample : L3633-03
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMA1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

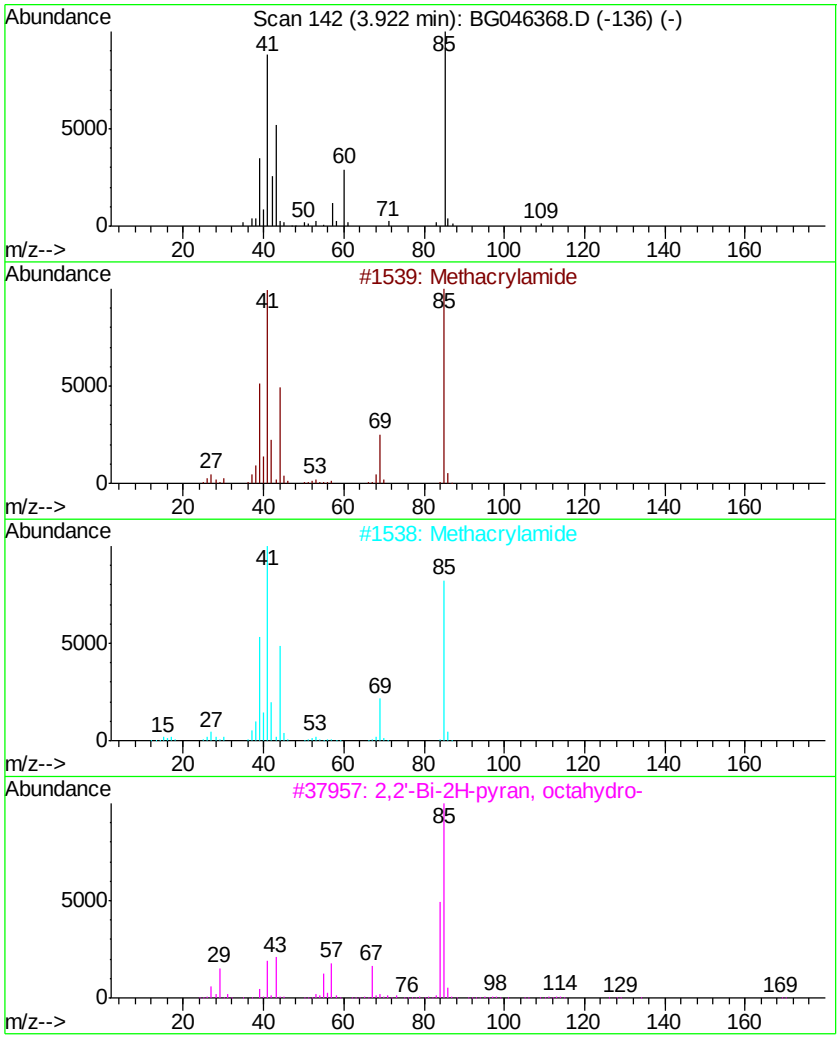
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

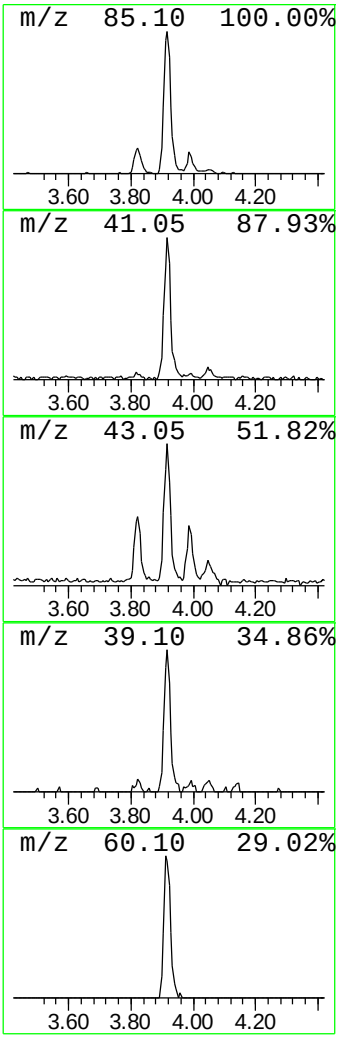
**********

Peak Number 2 unknown-01 Concentration Rank 23

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.92 | 2.96 ng/ul | 83200 | 1,4-Dichlorobenzene-d4 | 7.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Methacrylamide | 85 | C4H7NO | 000079-39-0 | 45 |
| 2 | Methacrylamide | 85 | C4H7NO | 000079-39-0 | 38 |
| 3 | 2,2'-Bi-2H-pyran, octahydro- | 170 | C10H18O2 | 016282-29-4 | 25 |
| 4 | (S)-(-)-1-Amino-2-(methoxymethyl... | 130 | C6H14N2O | 059983-39-0 | 25 |
| 5 | (R)-(+)-1-Amino-2-(methoxymethyl... | 130 | C6H14N2O | 072748-99-3 | 23 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081920\
Data File : BG046368.D
Acq On : 20 Aug 2020 6:49
Operator : CG/JU
Sample : L3633-03
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMA1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

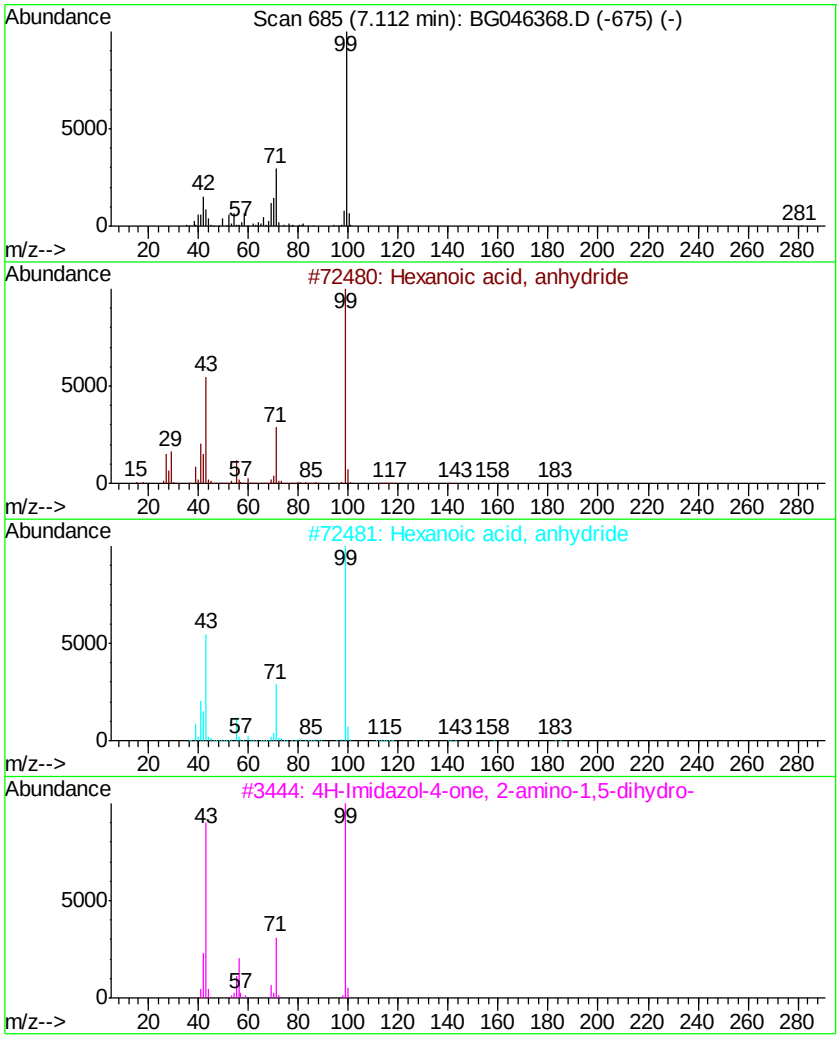
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

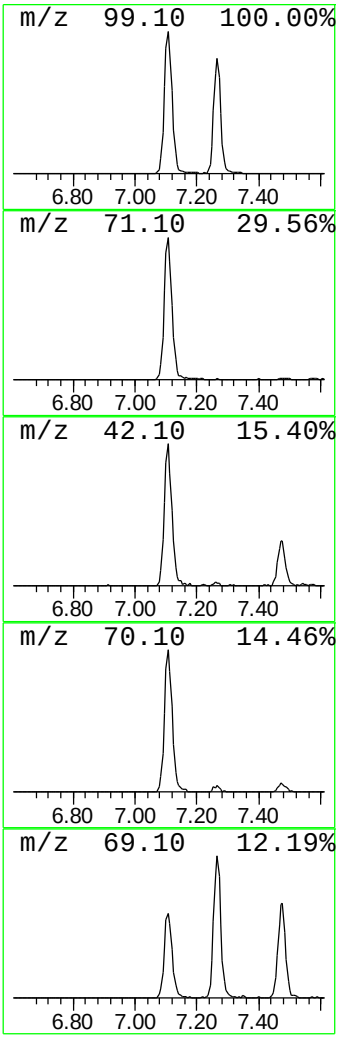
**********

Peak Number 3 Hexanoic acid, anhydride Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.11 | 17.63 ng/ul | 495538 | 1,4-Dichlorobenzene-d4 | 7.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexanoic acid, anhydride | 214 | C12H22O3 | 002051-49-2 | 50 |
| 2 | Hexanoic acid, anhydride | 214 | C12H22O3 | 002051-49-2 | 45 |
| 3 | 4H-Imidazol-4-one, 2-amino-1,5-d... | 99 | C3H5N3O | 000503-86-6 | 45 |
| 4 | Hexanoic acid, anhydride | 214 | C12H22O3 | 002051-49-2 | 42 |
| 5 | n-Heptyl methylphosphonofluoridate | 196 | C8H18FO2P | 162085-82-7 | 42 |



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Data File : BG046368.D
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Operator : CG/JU
Sample : L3633-03
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMA1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

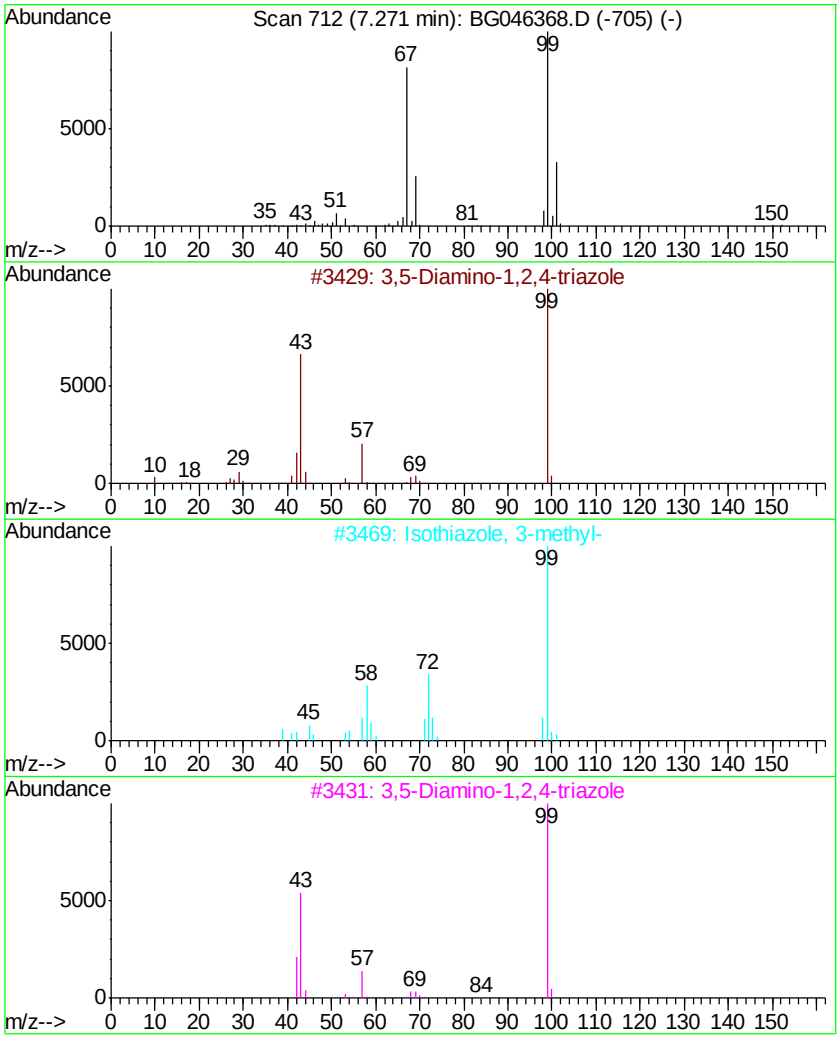
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

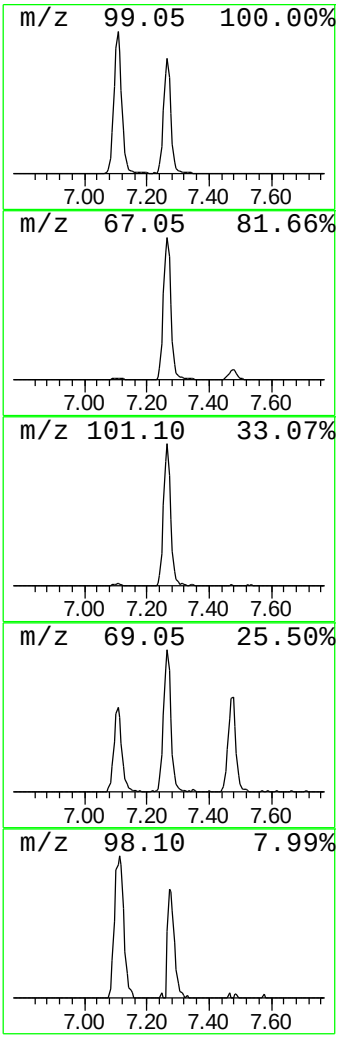
**********

Peak Number 4 unknown-02 Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.27 | 13.68 ng/ul | 384358 | 1,4-Dichlorobenzene-d4 | 7.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3,5-Diamino-1,2,4-triazole | 99 | C2H5N5 | 001455-77-2 | 9 |
| 2 | Isothiazole, 3-methyl- | 99 | C4H5NS | 000693-92-5 | 9 |
| 3 | 3,5-Diamino-1,2,4-triazole | 99 | C2H5N5 | 001455-77-2 | 7 |
| 4 | Isothiazole, 3-methyl- | 99 | C4H5NS | 000693-92-5 | 7 |
| 5 | Methyl 2-butynoate | 98 | C5H6O2 | 023326-27-4 | 5 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081920\
Data File : BG046368.D
Acq On : 20 Aug 2020 6:49
Operator : CG/JU
Sample : L3633-03
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMA1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

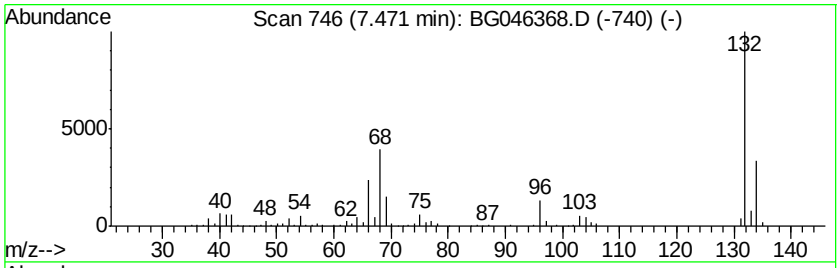
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

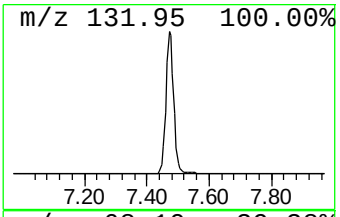
**********

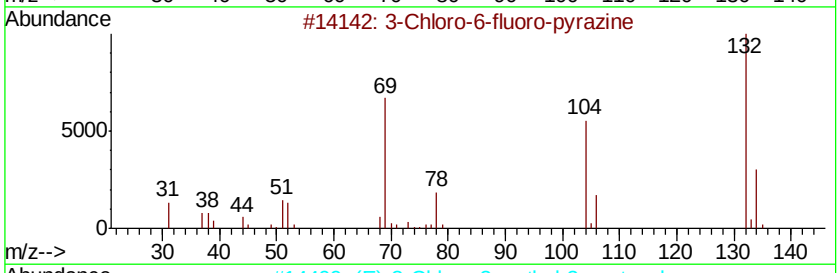
Peak Number 5 unknown-03 Concentration Rank 3

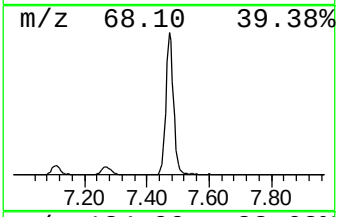
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.47 | 18.42 ng/ul | 517707 | 1,4-Dichlorobenzene-d4 | 7.94 |

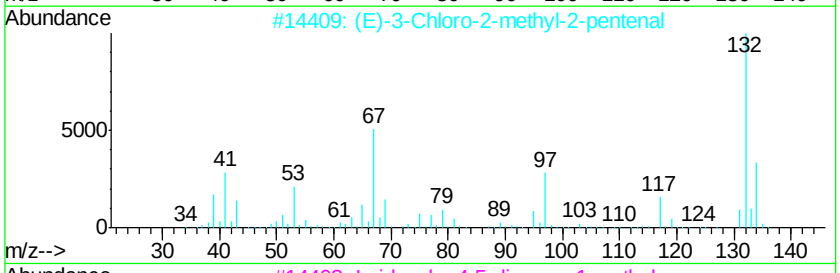
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 16 |
| 2 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 16 |
| 3 | Imidazole, 4,5-dicyano-1-methyl- | 132 | C6H4N4 | 019485-35-9 | 9 |
| 4 | Xenon | 132 | Xe | 007440-63-3 | 9 |
| 5 | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2 | 022291-85-6 | 9 |

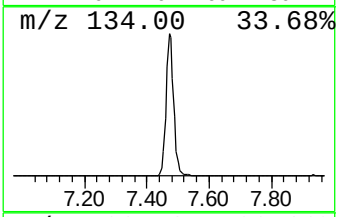


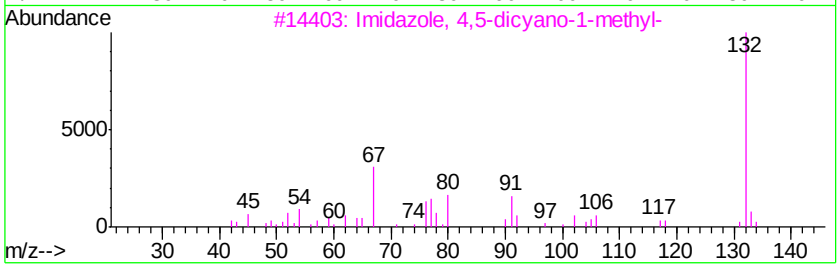



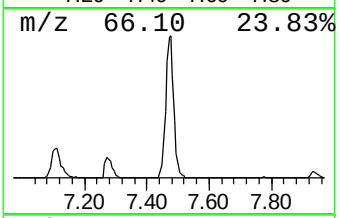



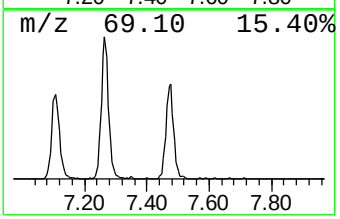



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081920\
Data File : BG046368.D
Acq On : 20 Aug 2020 6:49
Operator : CG/JU
Sample : L3633-03
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMA1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

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

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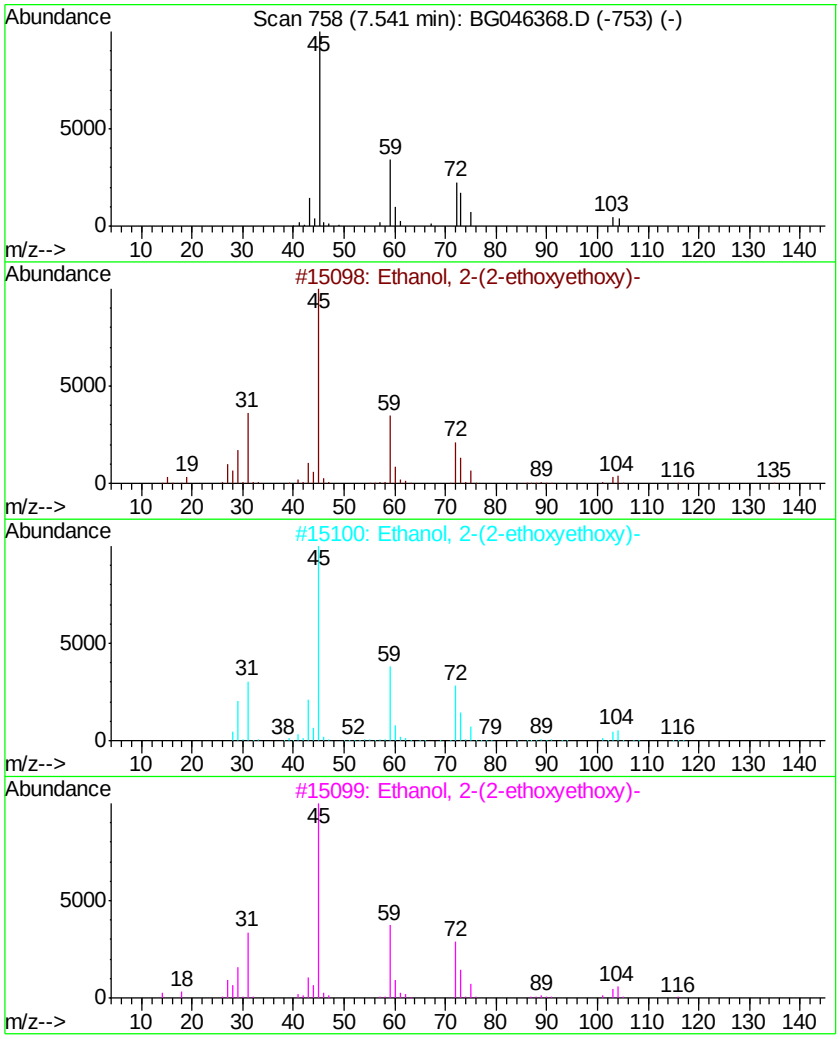
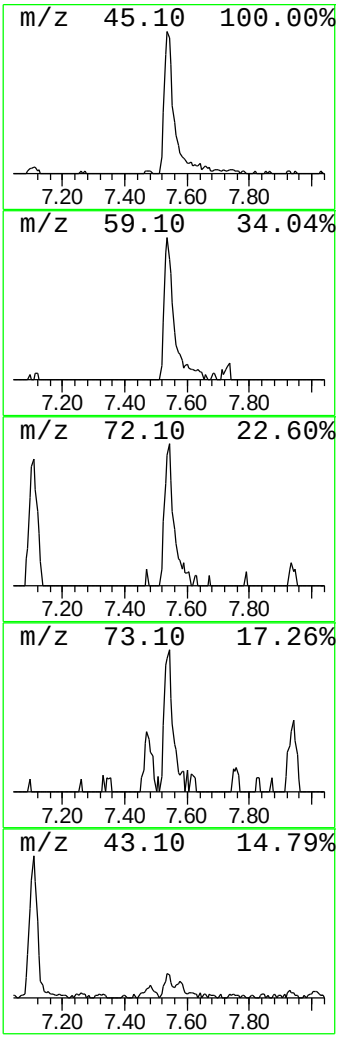
Peak Number 6 Ethanol, 2-(2-ethoxyethoxy)- Concentration Rank 34

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.54 | 2.02 ng/ul | 56657 | 1,4-Dichlorobenzene-d4 | 7.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Ethanol, 2-(2-ethoxyethoxy)- | 134 | C6H14O3 | 000111-90-0 | 83 |
| 2 | Ethanol, 2-(2-ethoxyethoxy)- | 134 | C6H14O3 | 000111-90-0 | 74 |
| 3 | Ethanol, 2-(2-ethoxyethoxy)- | 134 | C6H14O3 | 000111-90-0 | 72 |
| 4 | Ethanol, 2-(2-methoxyethoxy)- | 120 | C5H12O3 | 000111-77-3 | 59 |
| 5 | Ethanol, 2-(2-ethoxyethoxy)- | 134 | C6H14O3 | 000111-90-0 | 47 |



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Data File : BG046368.D
Acq On : 20 Aug 2020 6:49
Operator : CG/JU
Sample : L3633-03
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMA1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

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

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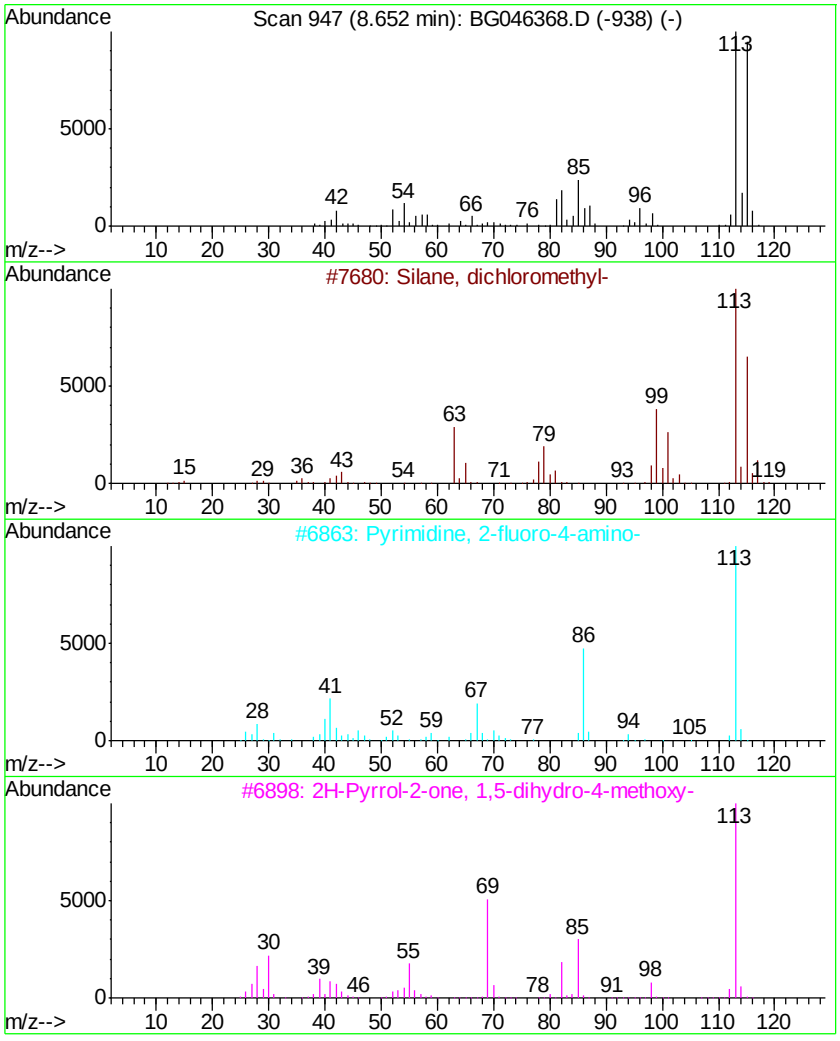
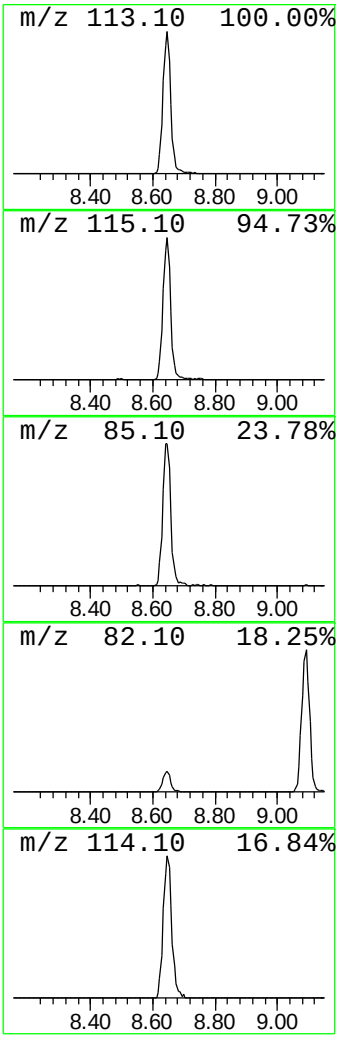
Peak Number 7 unknown-04 Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.65 | 20.50 ng/ul | 576124 | 1,4-Dichlorobenzene-d4 | 7.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Silane, dichloromethyl- | 114 | CH4Cl2Si | 000075-54-7 | 38 |
| 2 | Pyrimidine, 2-fluoro-4-amino- | 113 | C4H4FN3 | 096548-91-3 | 35 |
| 3 | 2H-Pyrrol-2-one, 1,5-dihydro-4-m... | 113 | C5H7NO2 | 069778-83-2 | 32 |
| 4 | Heptanoic acid, anhydride | 242 | C14H26O3 | 000626-27-7 | 32 |
| 5 | 4-Fluoro-6-aminopyrimidine | 113 | C4H4FN3 | 051421-96-6 | 30 |



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Data File : BG046368.D
Acq On : 20 Aug 2020 6:49
Operator : CG/JU
Sample : L3633-03
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMA1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

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

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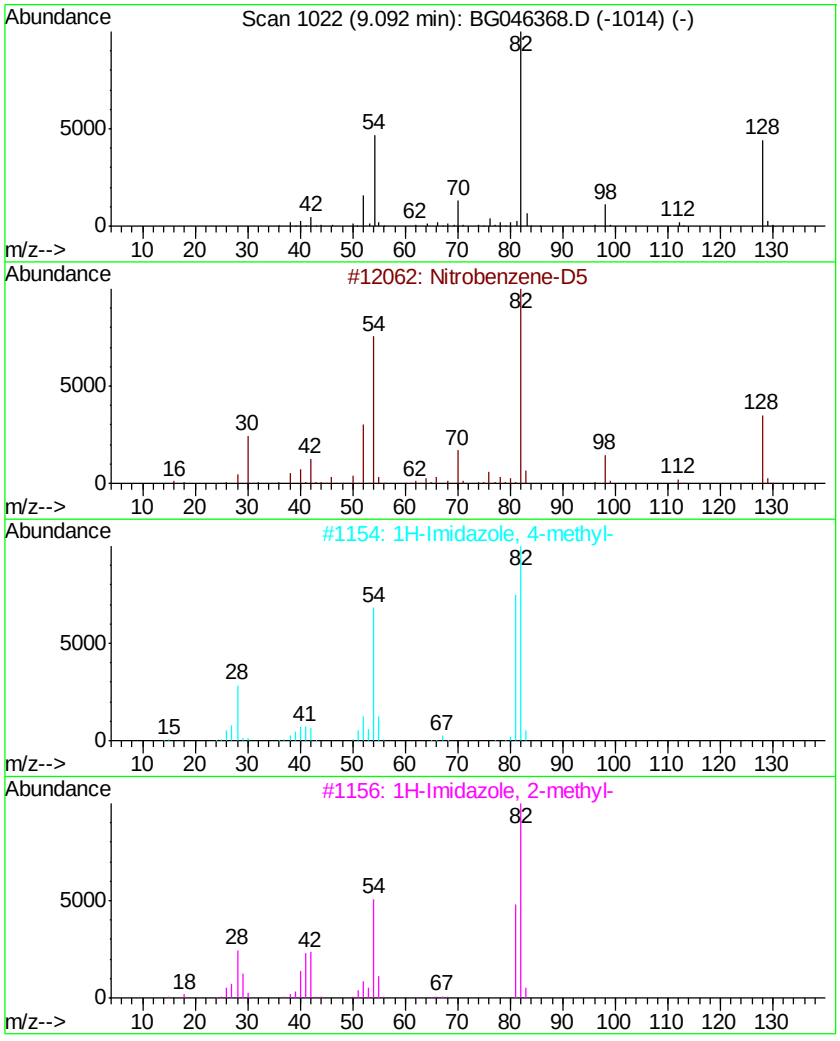
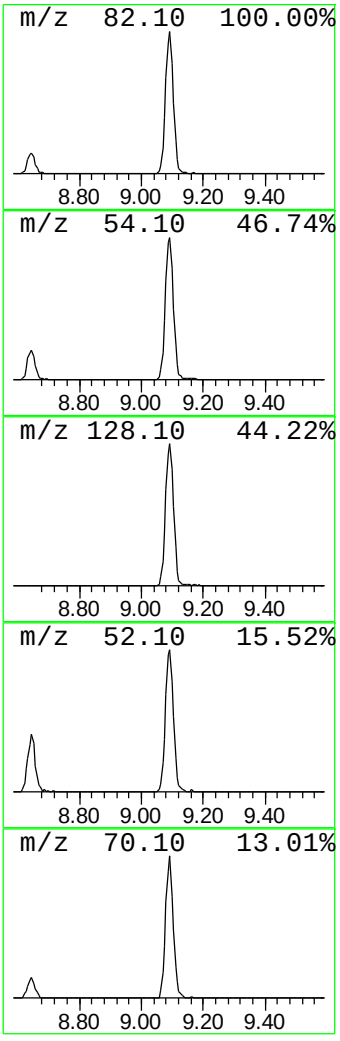
Peak Number 8 1H-Imidazole, 4-methyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.09 | 17.54 ng/ul | 492914 | 1,4-Dichlorobenzene-d4 | 7.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nitrobenzene-D5 | 128 | C6D5NO2 | 004165-60-0 | 64 |
| 2 | 1H-Imidazole, 4-methyl- | 82 | C4H6N2 | 000822-36-6 | 50 |
| 3 | 1H-Imidazole, 2-methyl- | 82 | C4H6N2 | 000693-98-1 | 40 |
| 4 | 1H-Imidazole, 2-methyl- | 82 | C4H6N2 | 000693-98-1 | 38 |
| 5 | Nitrobenzene-D5 | 128 | C6D5NO2 | 004165-60-0 | 35 |



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Data File : BG046368.D
Acq On : 20 Aug 2020 6:49
Operator : CG/JU
Sample : L3633-03
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMA1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

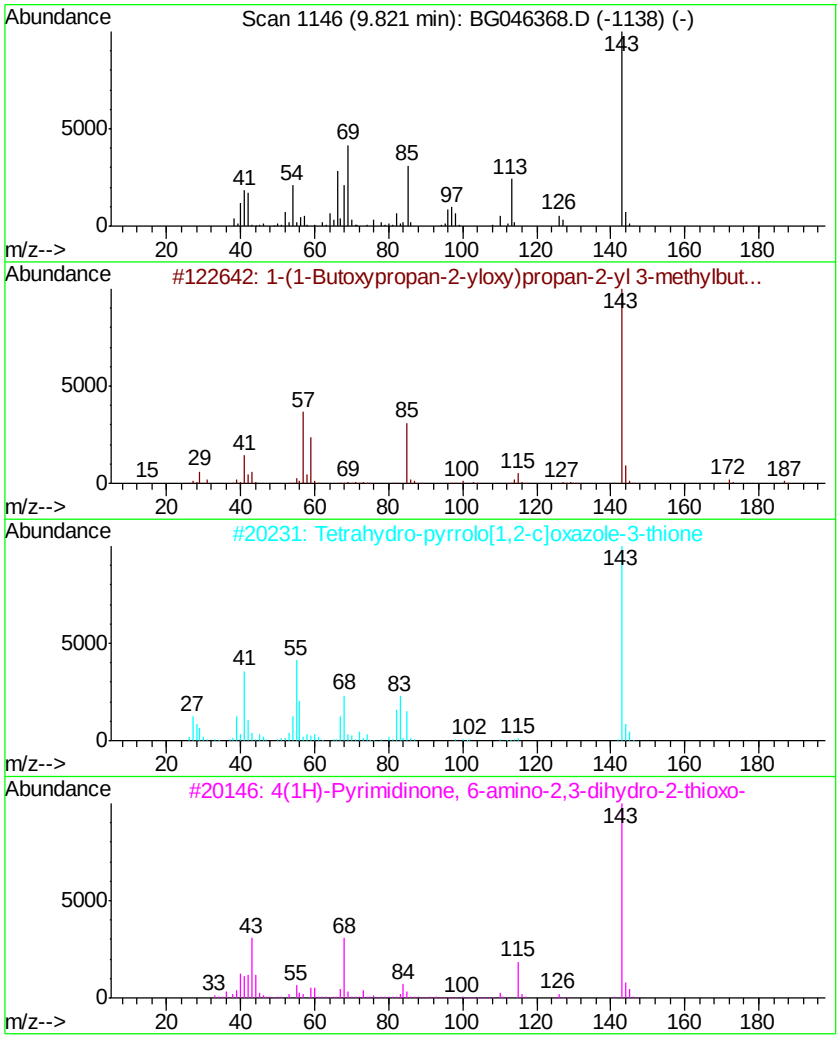
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

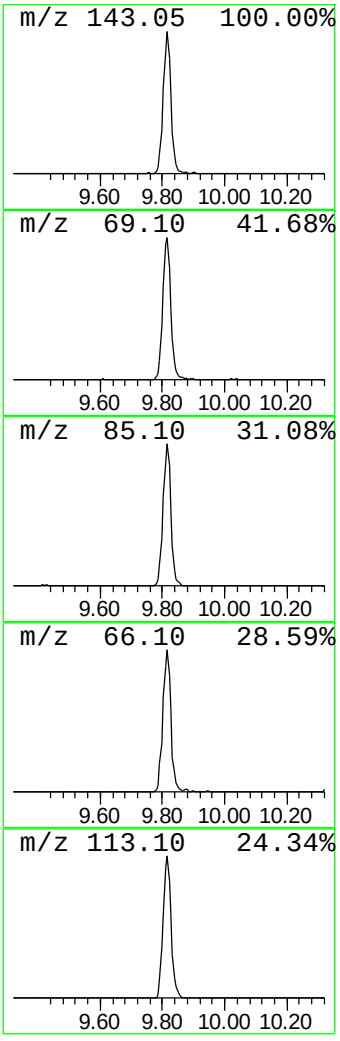
**********

Peak Number 9 unknown-05 Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.82 | 9.67 ng/ul | 414932 | Naphthalene-d8 | 10.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-(1-Butoxypropan-2-yloxy)propan... | 274 | C15H30O4 | 1000367-12-9 | 27 |
| 2 | Tetrahydro-pyrrolo[1,2-c]oxazole... | 143 | C6H9NOS | 1000190-53-6 | 17 |
| 3 | 4(1H)-Pyrimidinone, 6-amino-2,3-... | 143 | C4H5N3OS | 001004-40-6 | 16 |
| 4 | 1-(1-Butoxypropan-2-yloxy)propan... | 274 | C15H30O4 | 1000367-13-0 | 16 |
| 5 | 6-Chloro-N-methyl-3-pyridazinamine | 143 | C5H6ClN3 | 014959-32-1 | 12 |



# Library Search Compound Report

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Data File : BG046368.D
Acq On : 20 Aug 2020 6:49
Operator : CG/JU
Sample : L3633-03
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMA1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

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

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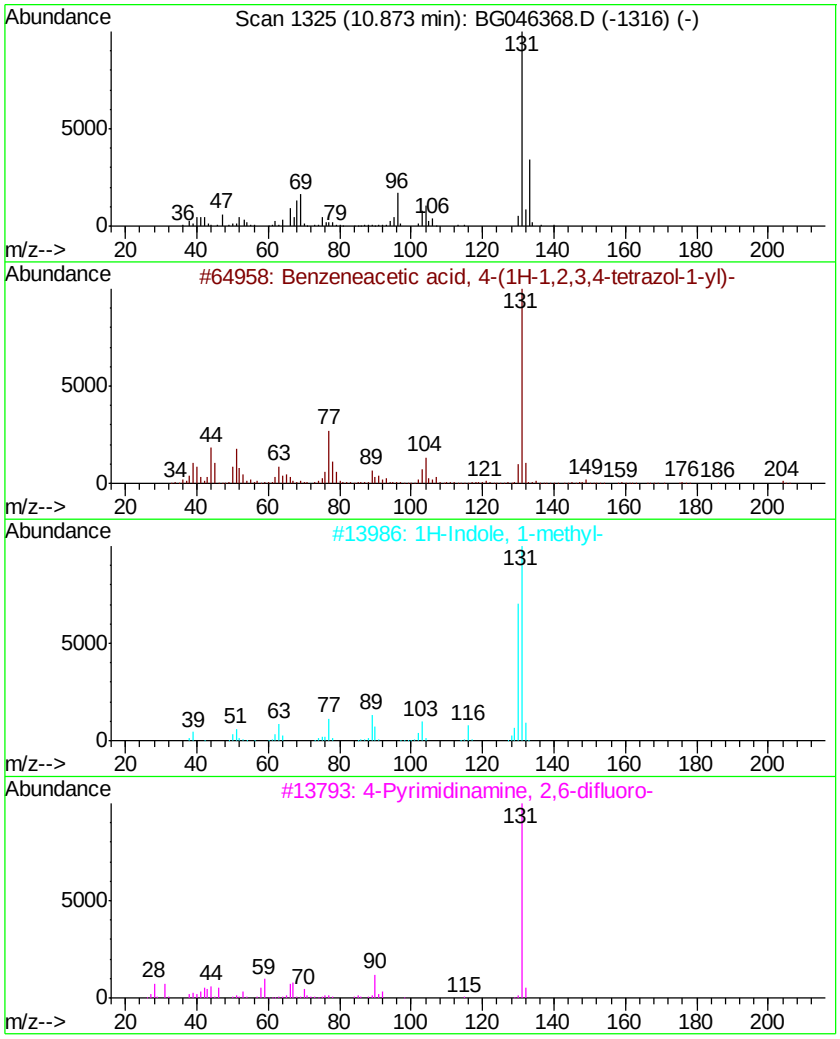
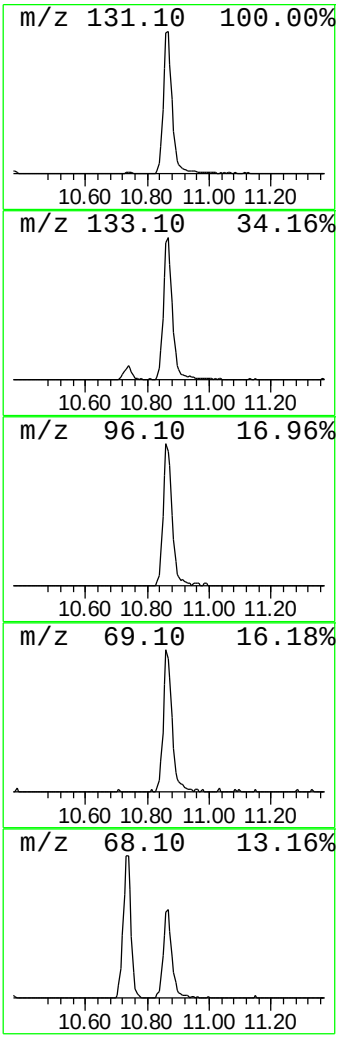
Peak Number 10 unknown-06 Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.87 | 9.83 ng/ul | 421797 | Naphthalene-d8 | 10.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzeneacetic acid, 4-(1H-1,2,3,... | 204 | C9H8N4O2 | 1000351-56-5 | 33 |
| 2 | 1H-Indole, 1-methyl- | 131 | C9H9N | 000603-76-9 | 9 |
| 3 | 4-Pyrimidinamine, 2,6-difluoro- | 131 | C4H3F2N3 | 000675-12-7 | 9 |
| 4 | 4-Aminobenzyl cyanide | 132 | C8H8N2 | 003544-25-0 | 9 |
| 5 | 4-Aminobenzyl cyanide | 132 | C8H8N2 | 003544-25-0 | 9 |



Library Search Compound Report

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Data File : BG046368.D
Acq On : 20 Aug 2020 6:49
Operator : CG/JU
Sample : L3633-03
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMA1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

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

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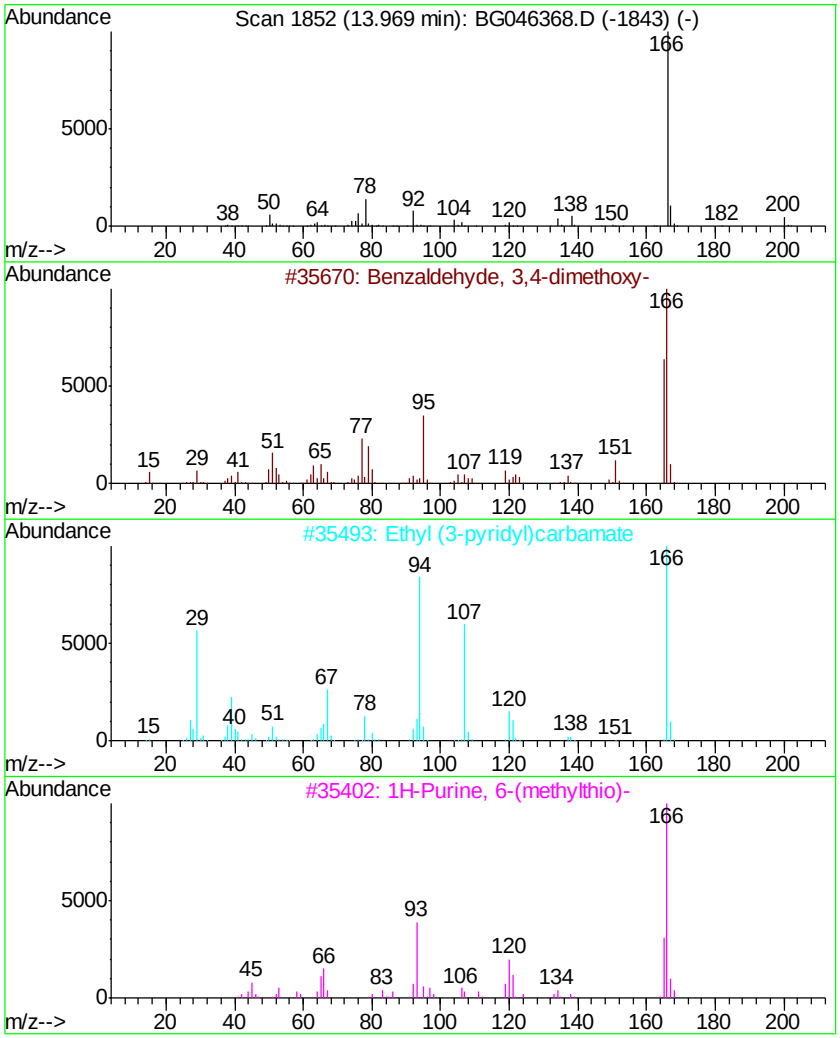
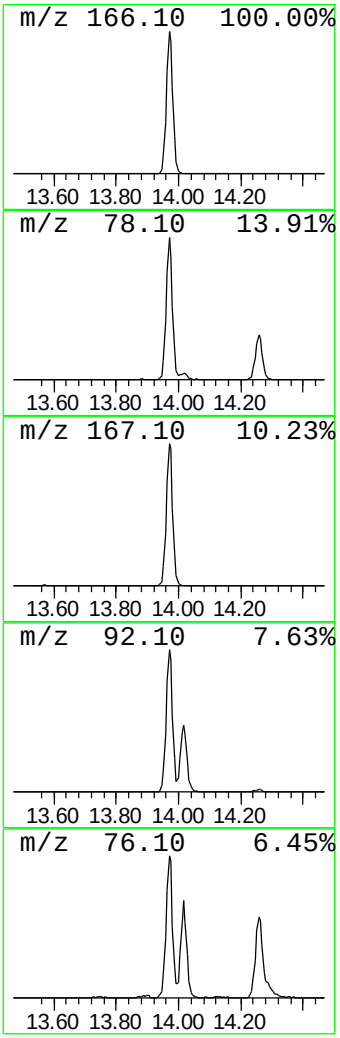
Peak Number 11 unknown-07 Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.97 | 16.63 ng/ul | 1044530 | Acenaphthene-d10 | 14.57 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzaldehyde, 3,4-dimethoxy- | 166 | C9H10O3 | 000120-14-9 | 45 |
| 2 | Ethyl (3-pyridyl)carbamate | 166 | C8H10N2O2 | 006276-11-5 | 39 |
| 3 | 1H-Purine, 6-(methylthio)- | 166 | C6H6N4S | 000050-66-8 | 38 |
| 4 | Benzenamine, N,N-dimethyl-4-nitro- | 166 | C8H10N2O2 | 000100-23-2 | 38 |
| 5 | 3,5-Diamino-2-methylbenzoic acid | 166 | C8H10N2O2 | 090007-30-0 | 36 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081920\
Data File : BG046368.D
Acq On : 20 Aug 2020 6:49
Operator : CG/JU
Sample : L3633-03
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMA1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

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

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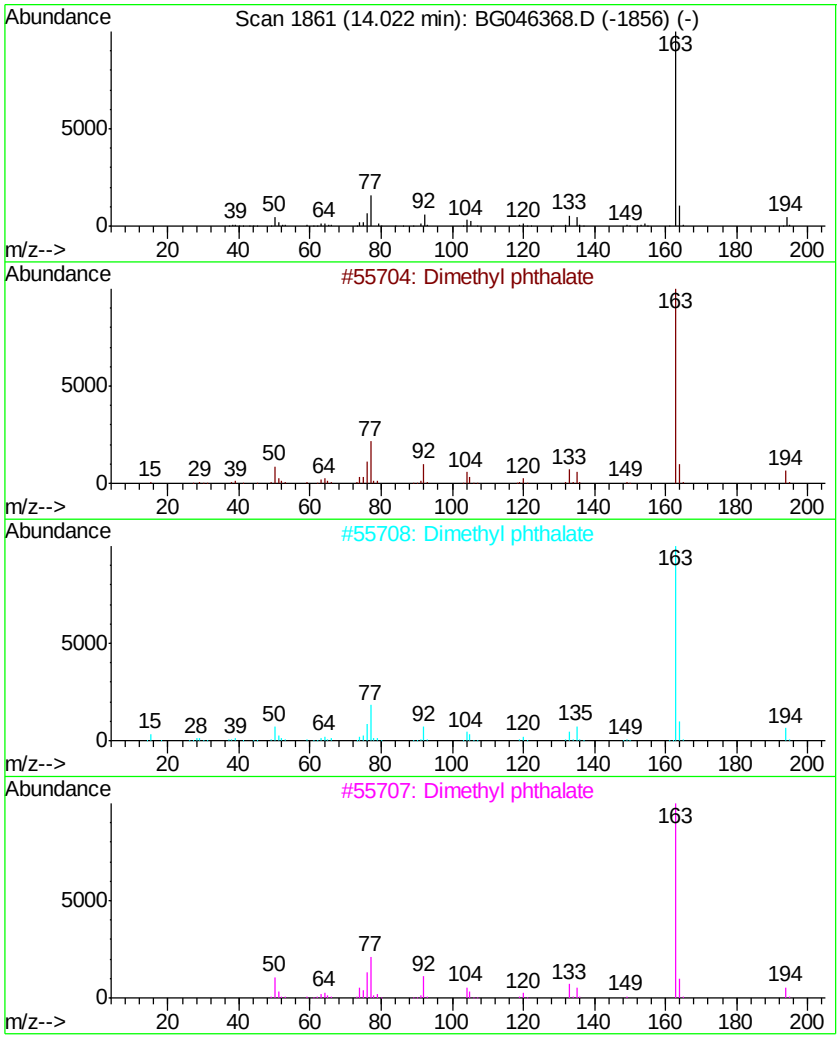
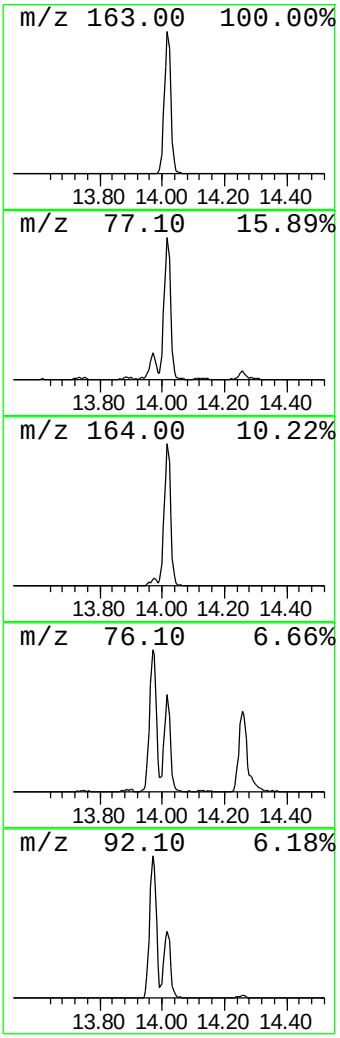
Peak Number 12 Dimethyl phthalate Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.02 | 8.43 ng/ul | 529106 | Acenaphthene-d10 | 14.57 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dimethyl phthalate | 194 | C10H10O4 | 000131-11-3 | 95 |
| 2 | Dimethyl phthalate | 194 | C10H10O4 | 000131-11-3 | 92 |
| 3 | Dimethyl phthalate | 194 | C10H10O4 | 000131-11-3 | 91 |
| 4 | Dimethyl phthalate | 194 | C10H10O4 | 000131-11-3 | 91 |
| 5 | Phthalic acid, 4-chloro-3-methyl... | 304 | C16H13ClO4 | 1000315-71-2 | 74 |



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Data File : BG046368.D
Acq On : 20 Aug 2020 6:49
Operator : CG/JU
Sample : L3633-03
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMA1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

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

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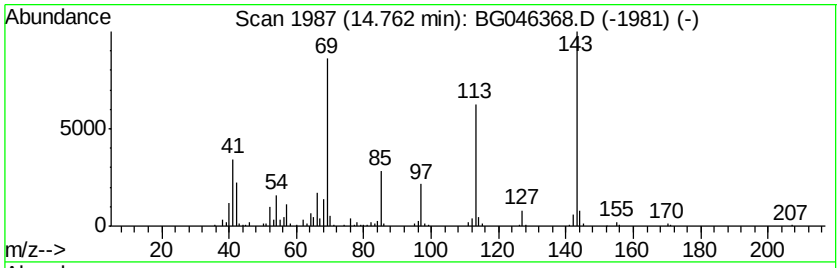
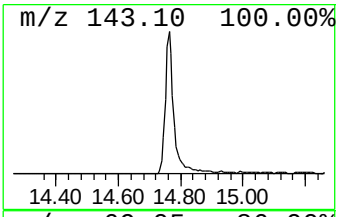
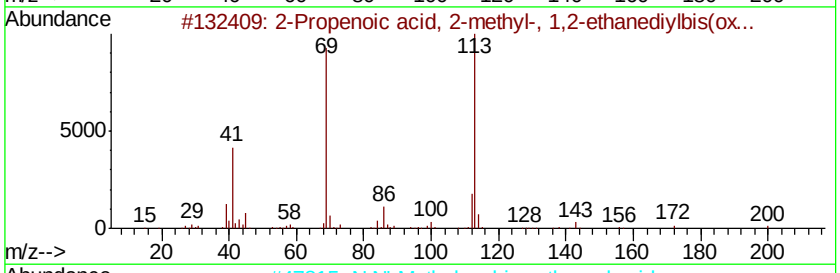
Peak Number 13 unknown-08 Concentration Rank 14

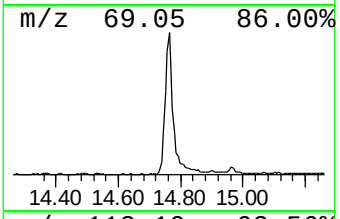
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.76 | 5.37 ng/ul | 337216 | Acenaphthene-d10 | 14.57 |

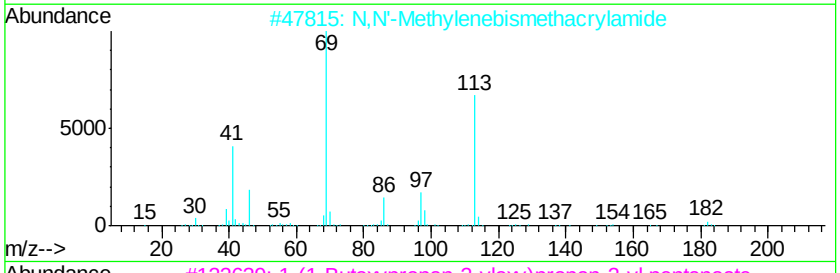
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Propenoic acid, 2-methyl-, 1,2... | 286 | C14H22O6 | 000109-16-0 | 35 |
| 2 | N,N'-Methylenebismethacrylamide | 182 | C9H14N2O2 | 002359-15-1 | 25 |
| 3 | 1-(1-Butoxypropan-2-yloxy)propan... | 274 | C15H30O4 | 1000367-13-0 | 22 |
| 4 | 6-Chloro-N-methyl-3-pyridazinamine | 143 | C5H6ClN3 | 014959-32-1 | 14 |
| 5 | 1,2-Benzenedicarbonitrile, 4-amino- | 143 | C8H5N3 | 056765-79-8 | 14 |

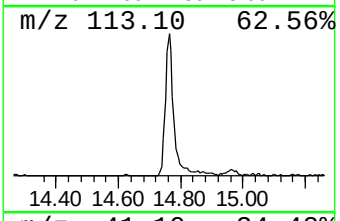


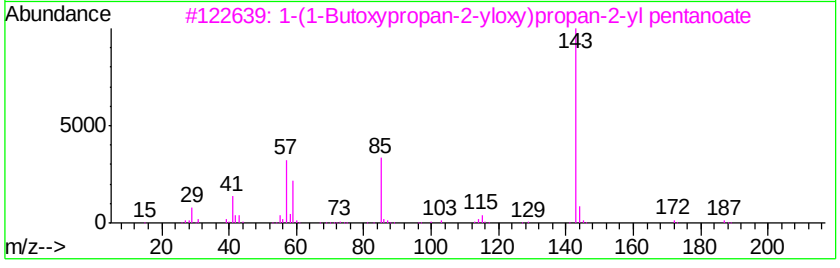



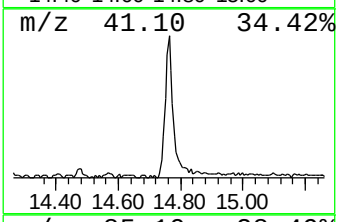



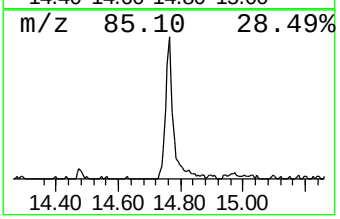



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Data File : BG046368.D
Acq On : 20 Aug 2020 6:49
Operator : CG/JU
Sample : L3633-03
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMA1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

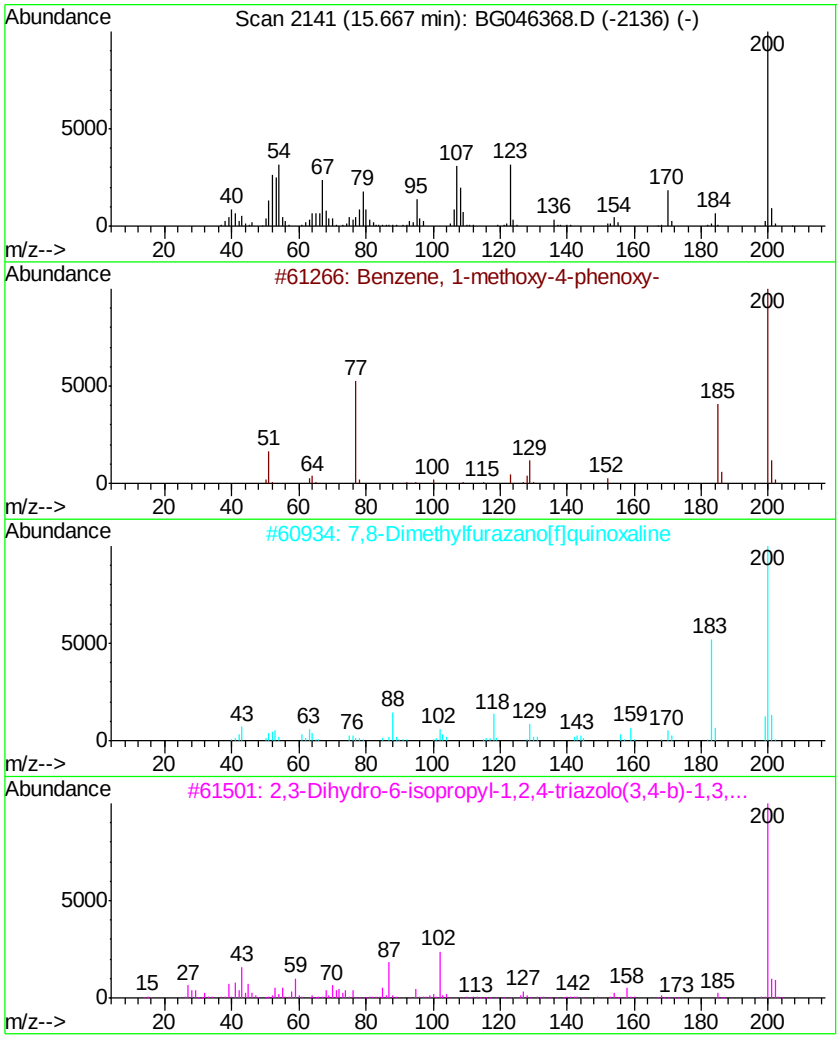
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

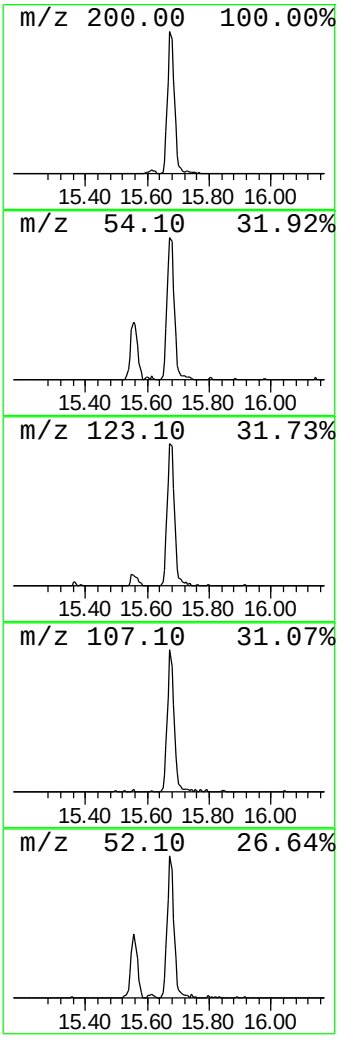
**********

Peak Number 14 unknown-09 Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.67 | 6.77 ng/ul | 425188 | Acenaphthene-d10 | 14.57 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-methoxy-4-phenoxy- | 200 | C13H12O2 | 001655-69-2 | 14 |
| 2 | 7,8-Dimethylfurazano[f]quinoxaline | 200 | C10H8N4O | 1000110-74-6 | 14 |
| 3 | 2,3-Dihydro-6-isopropyl-1,2,4-tr... | 200 | C6H8N4S2 | 014778-89-3 | 9 |
| 4 | Benzenamine, 4,4'-oxybis- | 200 | C12H12N2O | 000101-80-4 | 9 |
| 5 | 1-Hydroxy-4-hydrazonomethyl-2,2,... | 200 | C8H16N4O2 | 051973-32-1 | 9 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081920\
Data File : BG046368.D
Acq On : 20 Aug 2020 6:49
Operator : CG/JU
Sample : L3633-03
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMA1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

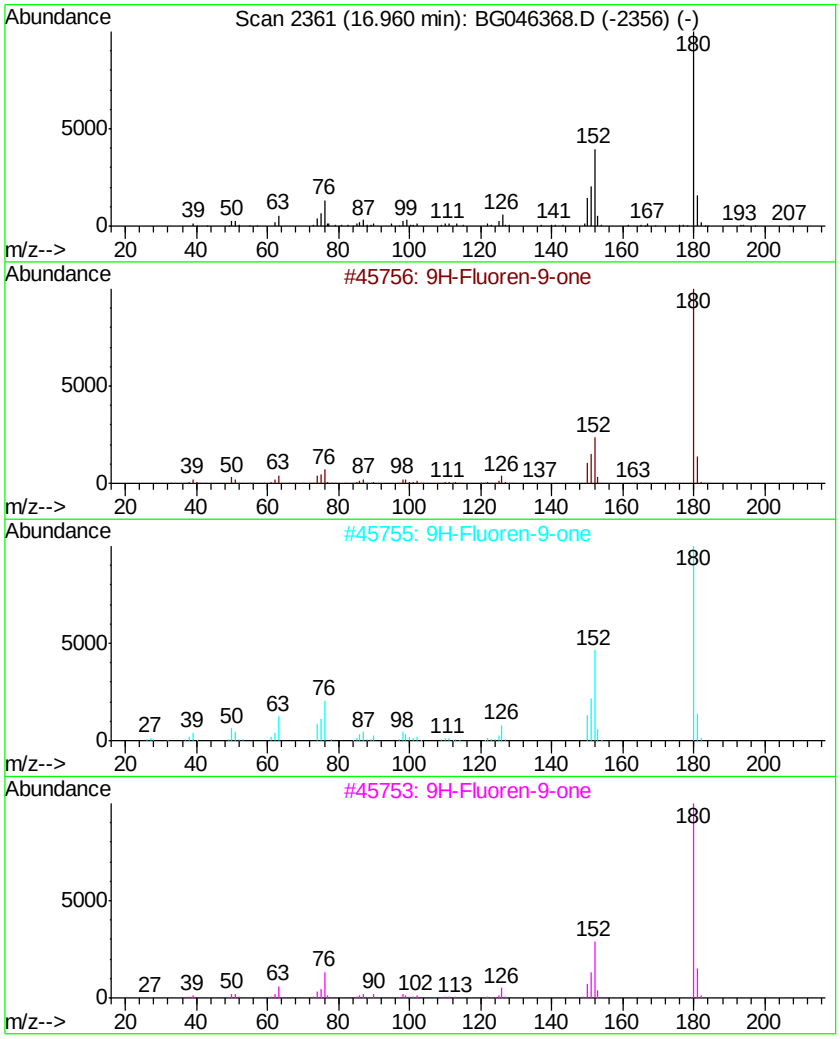
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

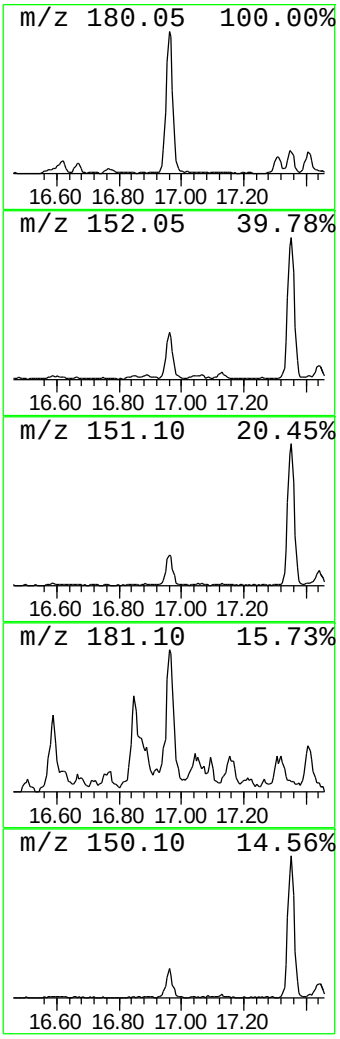
**********

Peak Number 15 9H-Fluoren-9-one Concentration Rank 30

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.96 | 2.18 ng/ul | 170551 | Phenanthrene-d10 | 17.31 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9H-Fluoren-9-one | 180 | C13H8O | 000486-25-9 | 95 |
| 2 | 9H-Fluoren-9-one | 180 | C13H8O | 000486-25-9 | 95 |
| 3 | 9H-Fluoren-9-one | 180 | C13H8O | 000486-25-9 | 94 |
| 4 | 9H-Fluoren-9-one | 180 | C13H8O | 000486-25-9 | 94 |
| 5 | Benzo[h]cinnoline | 180 | C12H8N2 | 000230-31-9 | 91 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081920\
Data File : BG046368.D
Acq On : 20 Aug 2020 6:49
Operator : CG/JU
Sample : L3633-03
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMA1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

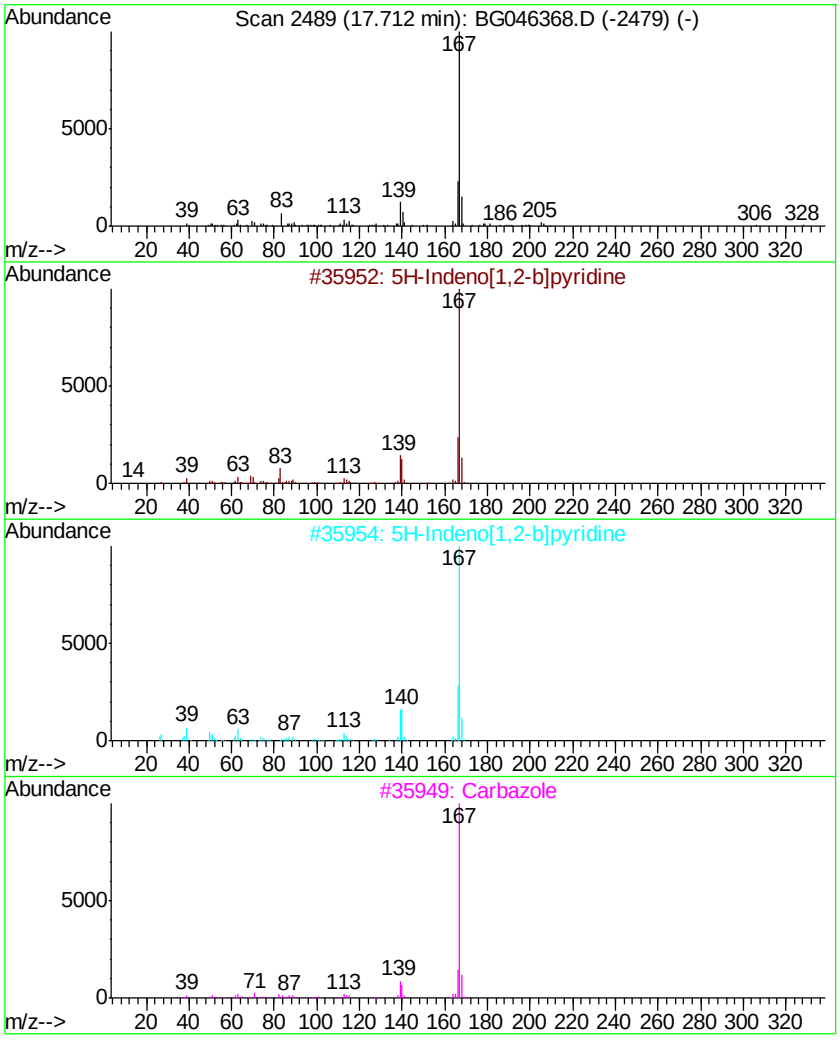
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

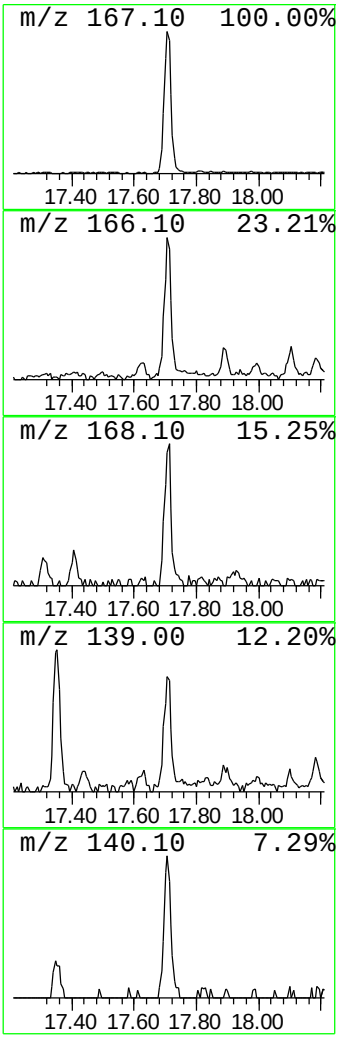
**********

Peak Number 16 5H-Indeno[1,2-b]pyridine Concentration Rank 33

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.71 | 2.03 ng/ul | 158936 | Phenanthrene-d10 | 17.31 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5H-Indeno[1,2-b]pyridine | 167 | C12H9N | 000244-99-5 | 93 |
| 2 | 5H-Indeno[1,2-b]pyridine | 167 | C12H9N | 000244-99-5 | 90 |
| 3 | Carbazole | 167 | C12H9N | 000086-74-8 | 87 |
| 4 | Carbazole | 167 | C12H9N | 000086-74-8 | 87 |
| 5 | 9H-Carbazole, 9-nitroso- | 196 | C12H8N2O | 002788-23-0 | 86 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081920\
Data File : BG046368.D
Acq On : 20 Aug 2020 6:49
Operator : CG/JU
Sample : L3633-03
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMA1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

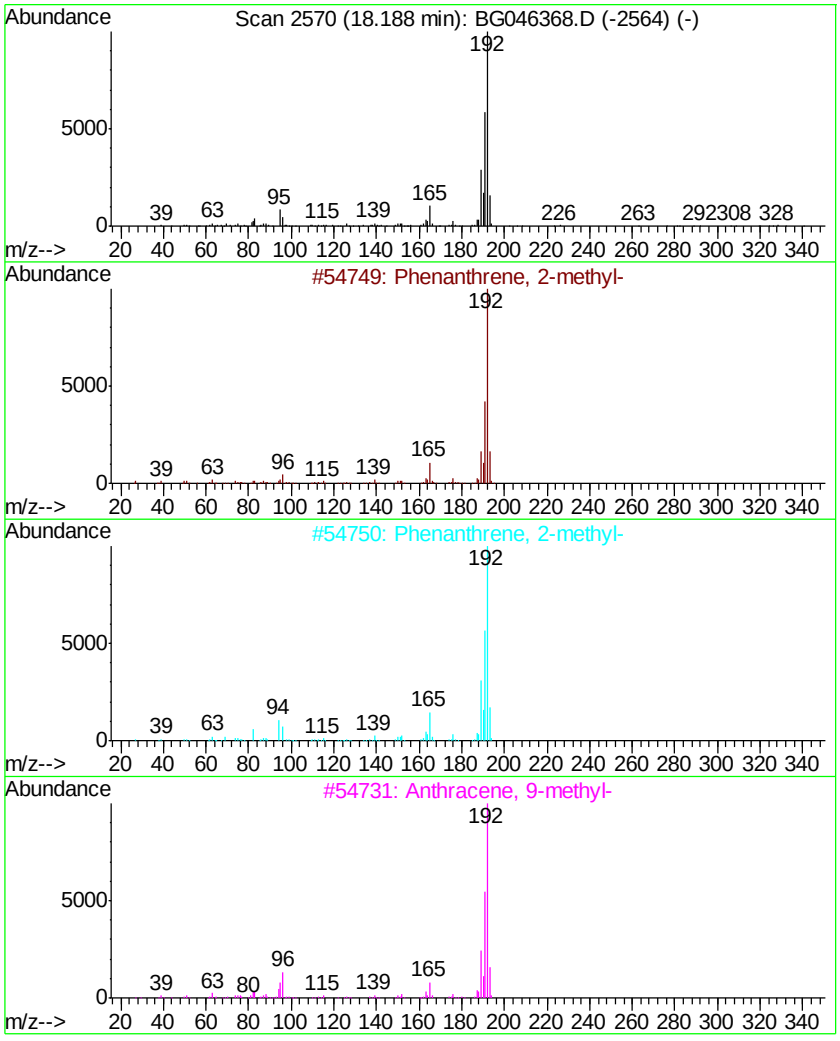
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

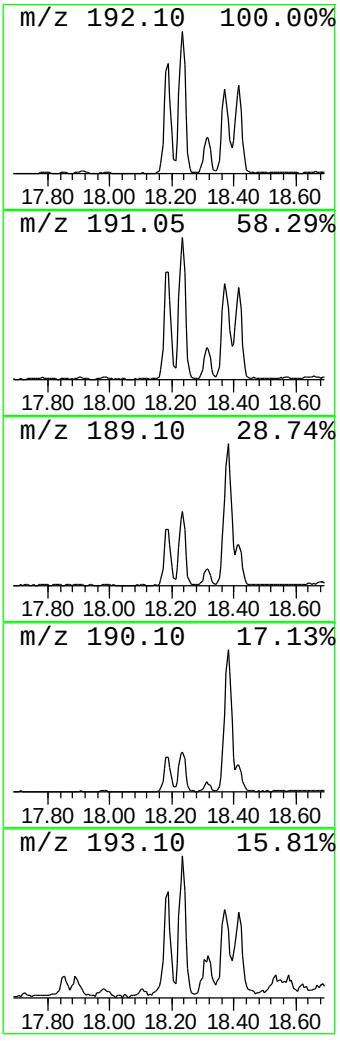
**********

Peak Number 17 Phenanthrene, 2-methyl- Concentration Rank 21

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.19 | 3.60 ng/ul | 282163 | Phenanthrene-d10 | 17.31 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 95 |
| 2 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 95 |
| 3 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 94 |
| 4 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 94 |
| 5 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 94 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081920\
Data File : BG046368.D
Acq On : 20 Aug 2020 6:49
Operator : CG/JU
Sample : L3633-03
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMA1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

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

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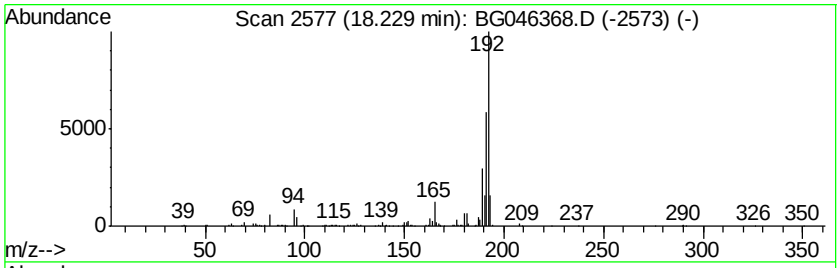
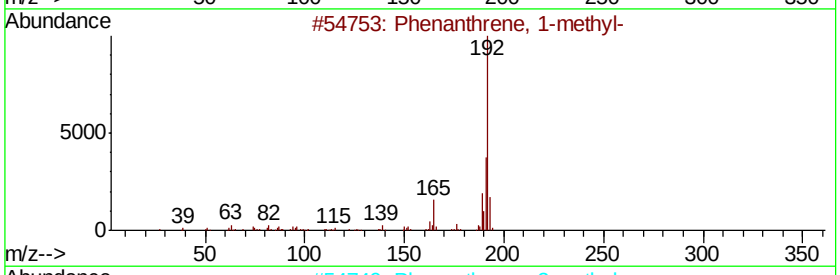
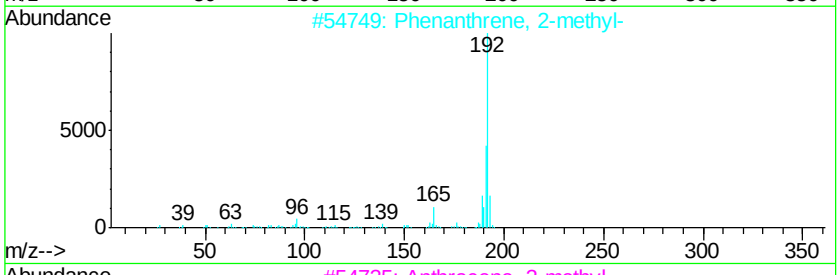
Peak Number 18 Phenanthrene, 1-methyl- Concentration Rank 15

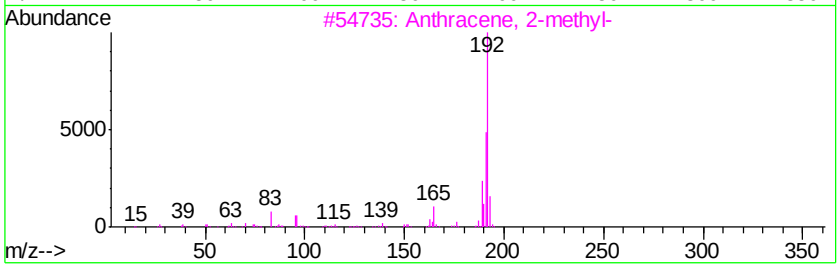
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.23 | 5.04 ng/ul | 394865 | Phenanthrene-d10 | 17.31 |

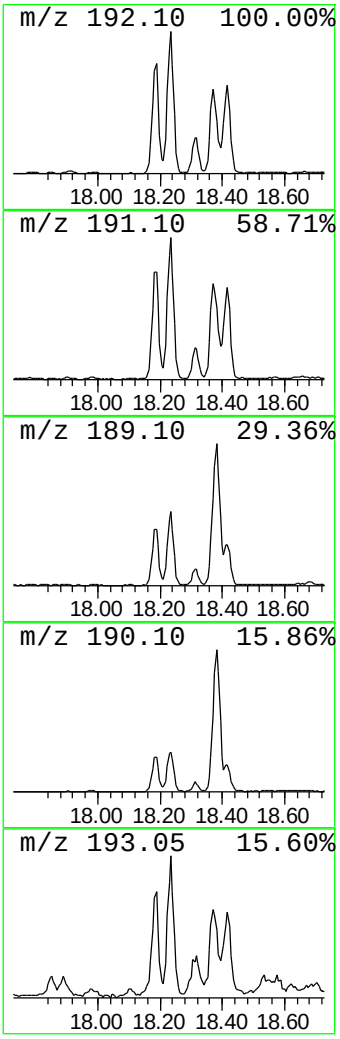
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 95 |
| 2 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 95 |
| 3 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 94 |
| 4 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 93 |
| 5 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 93 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081920\
Data File : BG046368.D
Acq On : 20 Aug 2020 6:49
Operator : CG/JU
Sample : L3633-03
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMA1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

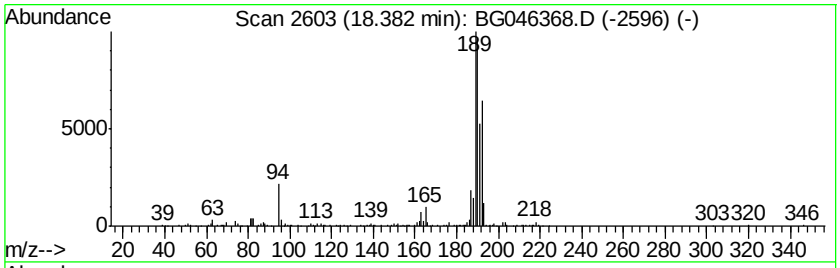
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

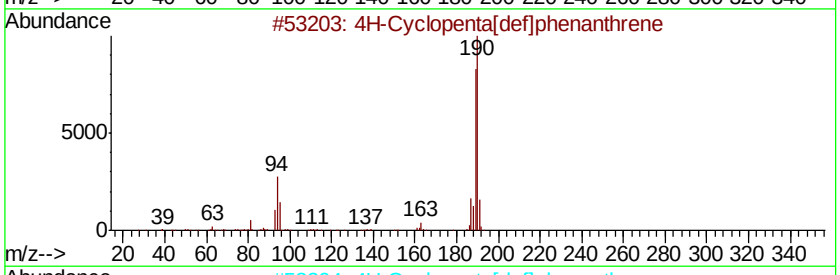
**********

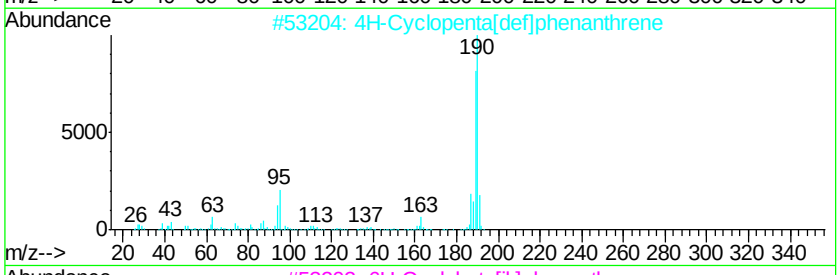
Peak Number 19 4H-Cyclopenta[def]phenanthrene Concentration Rank 13

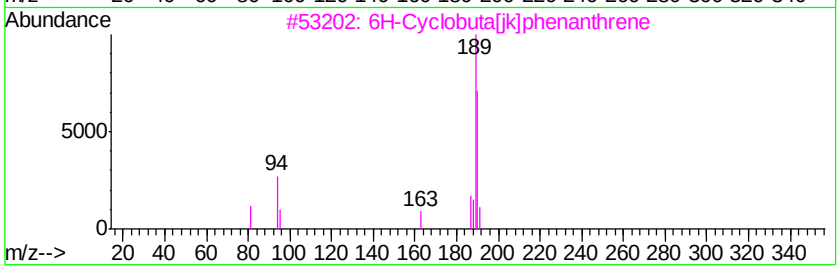
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.38 | 5.43 ng/ul | 425044 | Phenanthrene-d10 | 17.31 |

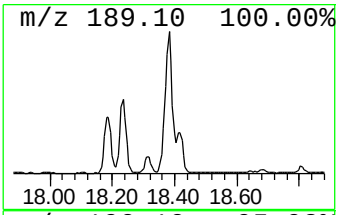
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 53 |
| 2 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 49 |
| 3 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 49 |
| 4 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 46 |
| 5 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 46 |

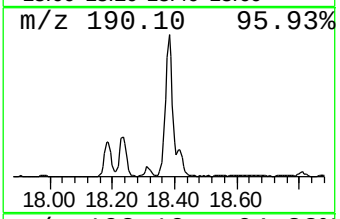


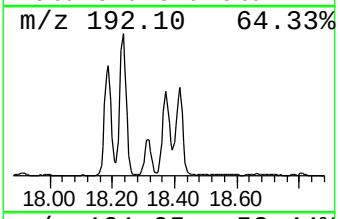



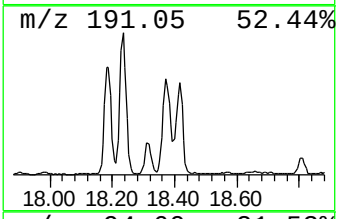



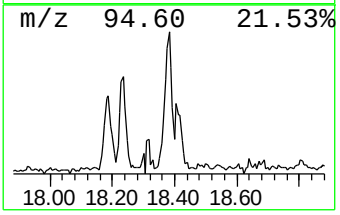



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081920\
Data File : BG046368.D
Acq On : 20 Aug 2020 6:49
Operator : CG/JU
Sample : L3633-03
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMA1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

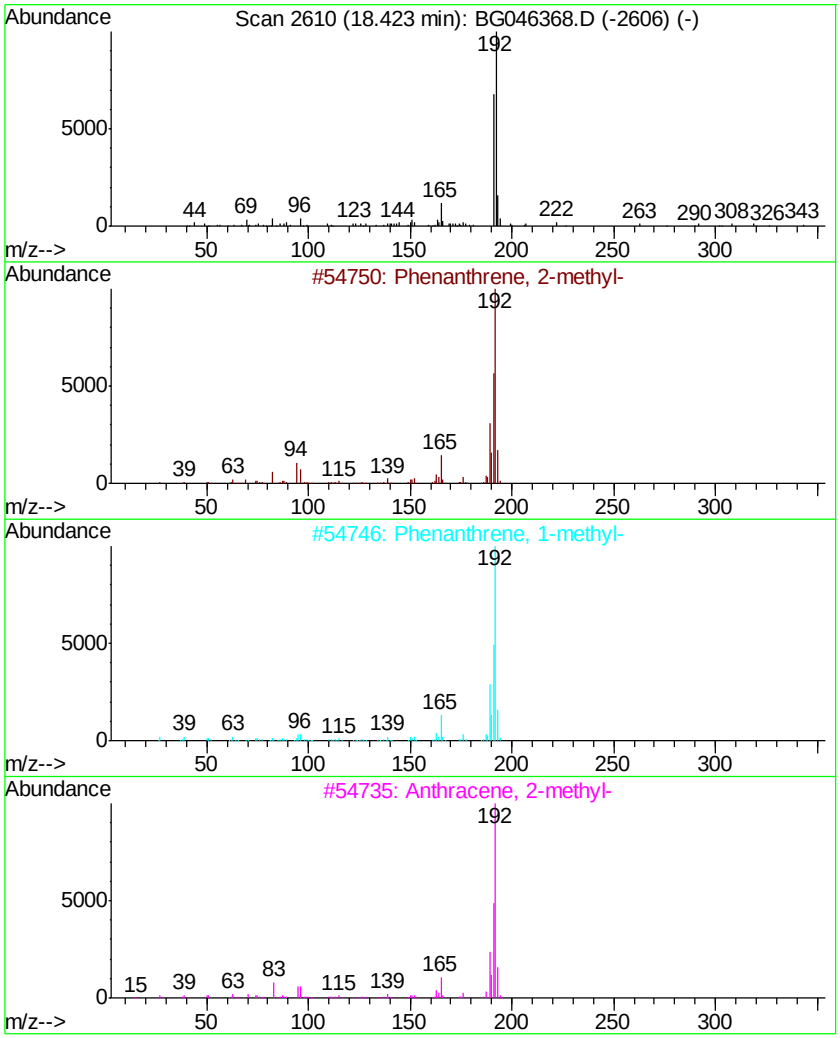
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

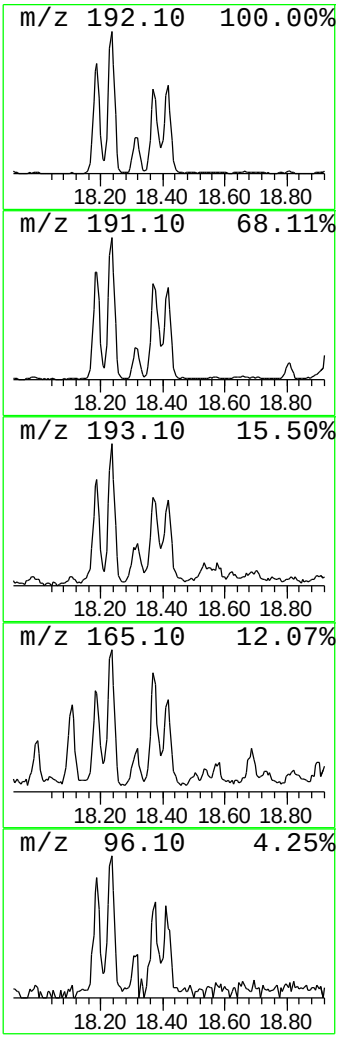
**********

Peak Number 20 Anthracene, 2-methyl- Concentration Rank 24

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.42 | 2.54 ng/ul | 198808 | Phenanthrene-d10 | 17.31 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 94 |
| 2 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 93 |
| 3 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 93 |
| 4 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 91 |
| 5 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 91 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081920\
Data File : BG046368.D
Acq On : 20 Aug 2020 6:49
Operator : CG/JU
Sample : L3633-03
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMA1

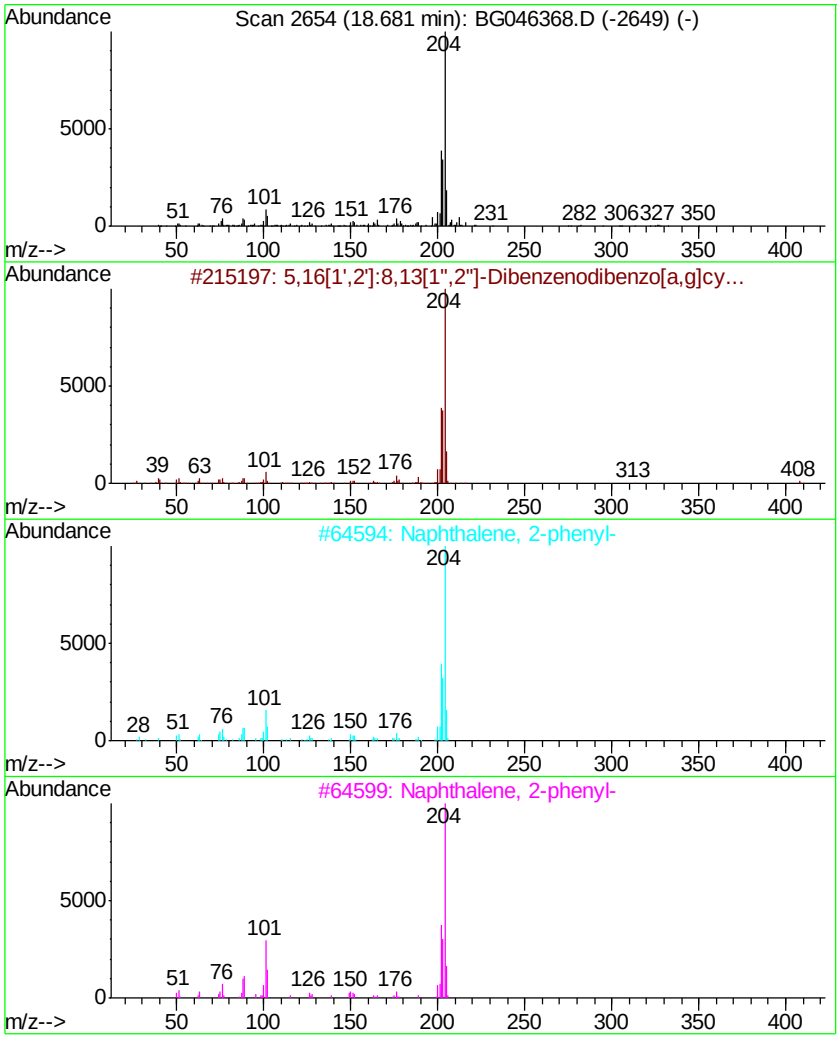
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

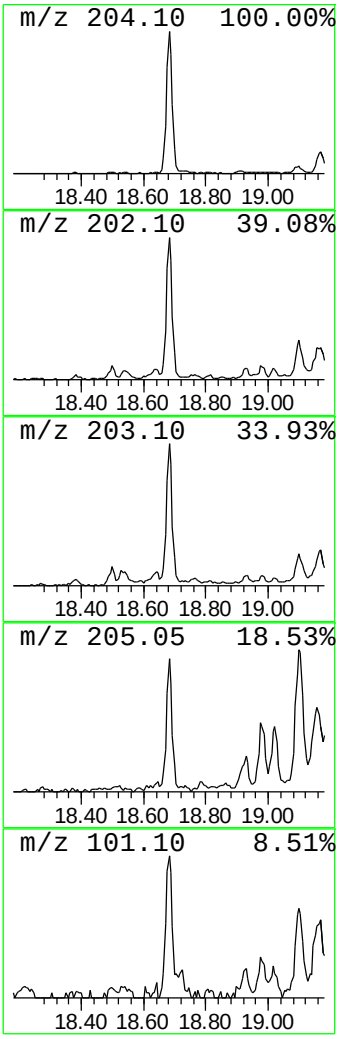
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 21 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 22

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.68 | 3.23 ng/ul | 252691 | Phenanthrene-d10 | 17.31 |

| 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 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 83 |
| 3 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 83 |
| 4 | 9,10-Bis(bromomethyl)anthracene | 362 | C16H12Br2 | 034373-96-1 | 72 |
| 5 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 64 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081920\
Data File : BG046368.D
Acq On : 20 Aug 2020 6:49
Operator : CG/JU
Sample : L3633-03
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMA1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

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

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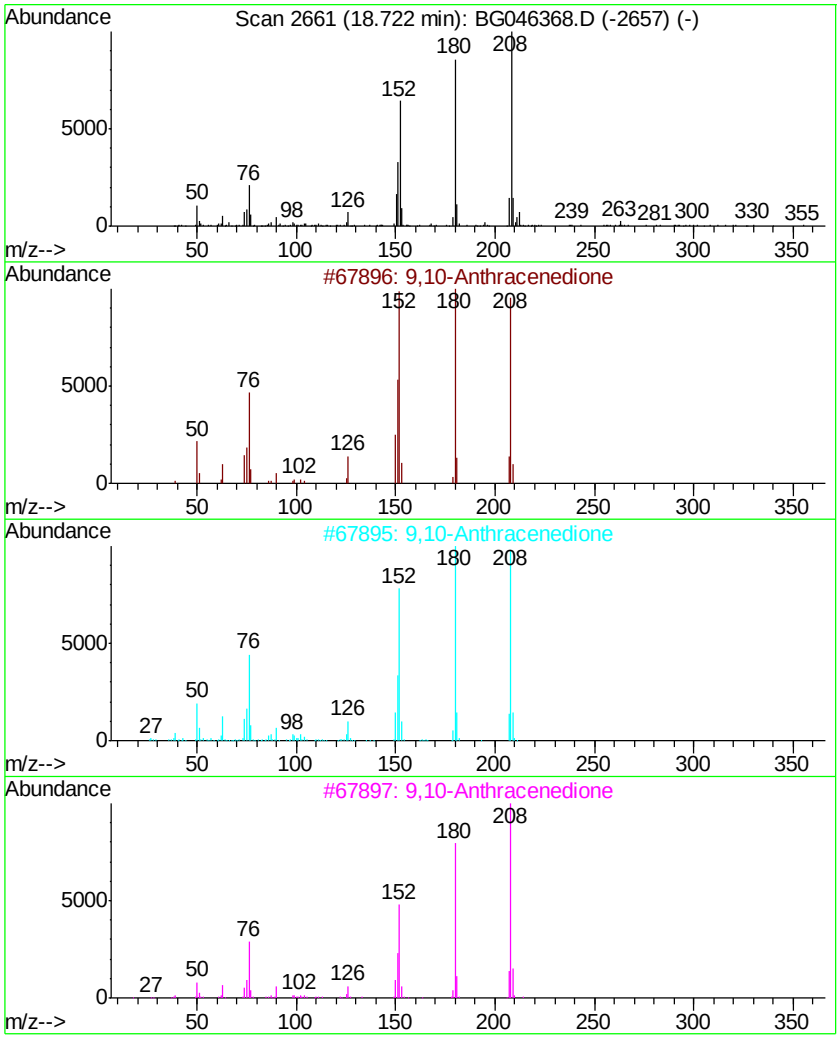
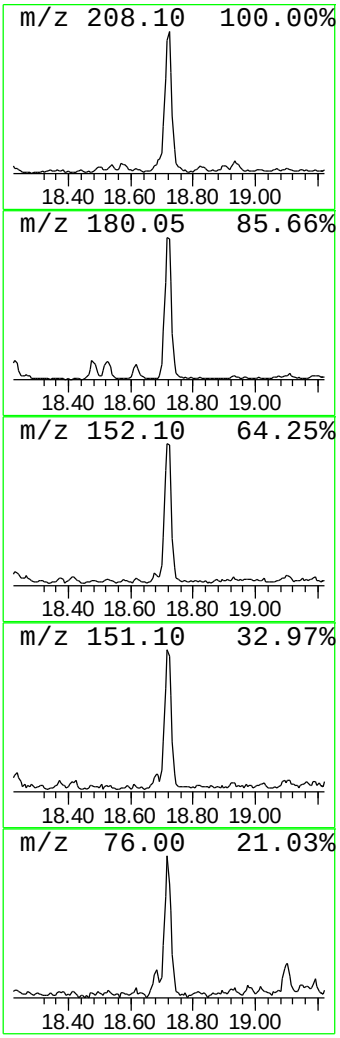
Peak Number 22 9,10-Anthracenedione Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.72 | 4.08 ng/ul | 319224 | Phenanthrene-d10 | 17.31 |

| 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 | 96 |
| 3 | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 94 |
| 4 | 1H-Phenalen-1-one | 180 | C13H8O | 000548-39-0 | 60 |
| 5 | 9H-Fluoren-9-one | 180 | C13H8O | 000486-25-9 | 53 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081920\
Data File : BG046368.D
Acq On : 20 Aug 2020 6:49
Operator : CG/JU
Sample : L3633-03
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMA1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

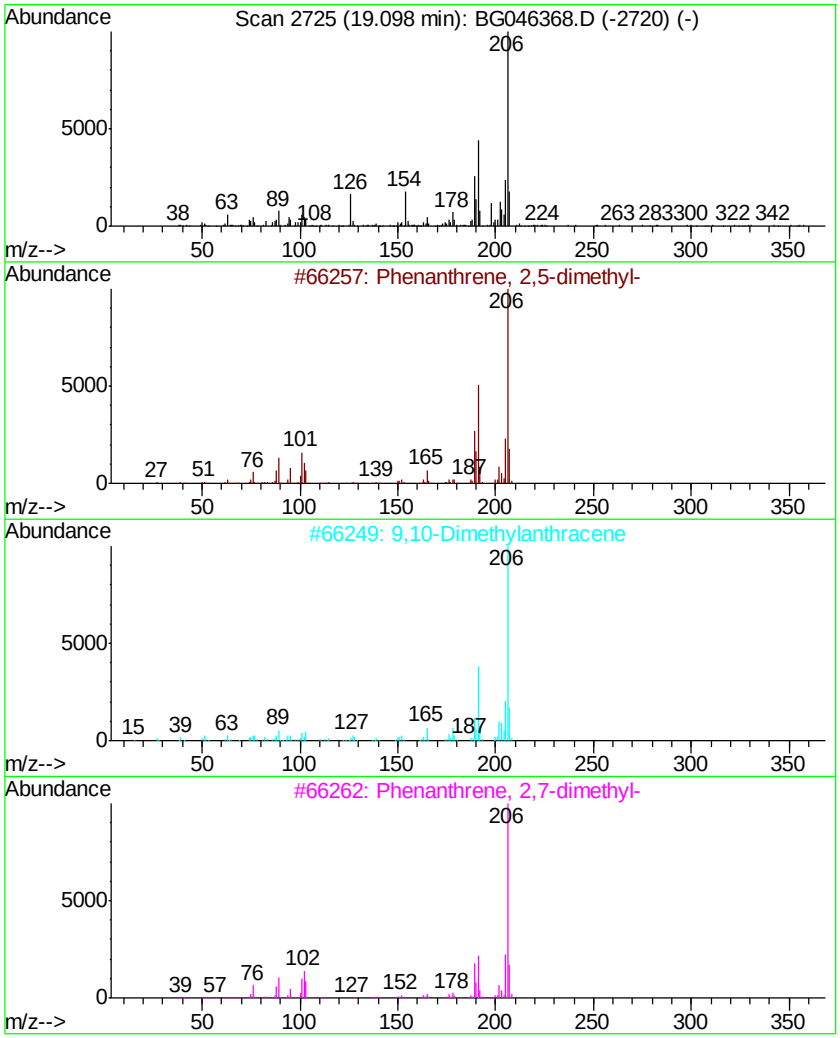
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

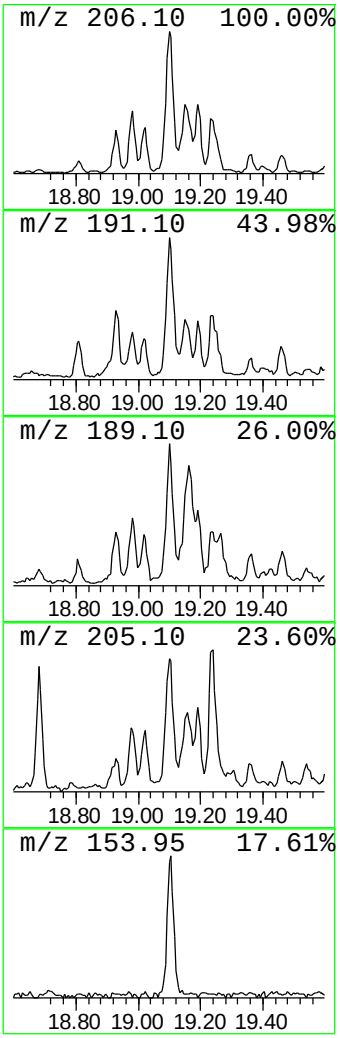
**********

Peak Number 23 Phenanthrene, 2,5-dimethyl- Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.10 | 4.23 ng/ul | 331424 | Phenanthrene-d10 | 17.31 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 95 |
| 2 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 90 |
| 3 | Phenanthrene, 2,7-dimethyl- | 206 | C16H14 | 001576-69-8 | 87 |
| 4 | di-p-Tolylacetylene | 206 | C16H14 | 002789-88-0 | 83 |
| 5 | Phenanthrene, 2,3-dimethyl- | 206 | C16H14 | 003674-65-5 | 81 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081920\
Data File : BG046368.D
Acq On : 20 Aug 2020 6:49
Operator : CG/JU
Sample : L3633-03
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMA1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

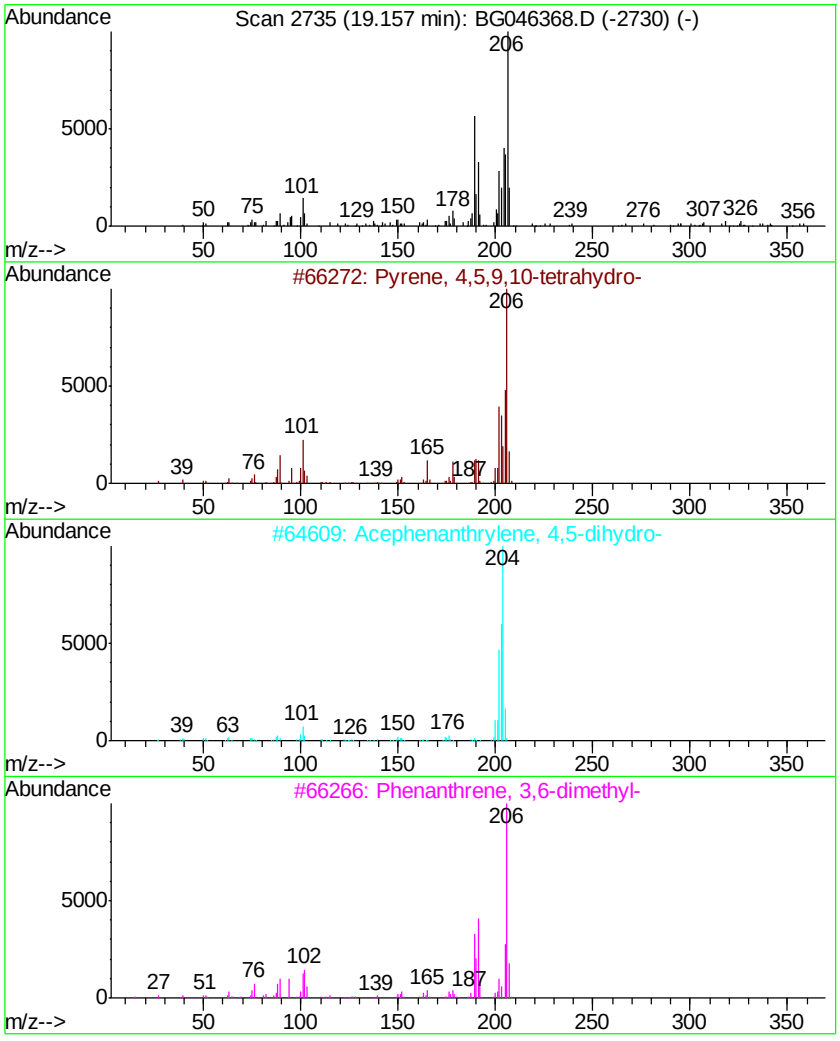
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

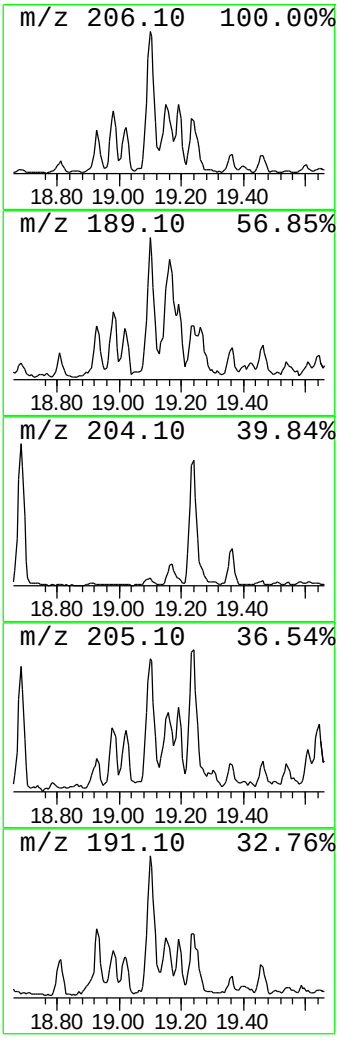
**********

Peak Number 24 Pyrene, 4,5,9,10-tetrahydro- Concentration Rank 27

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.16 | 2.25 ng/ul | 176187 | Phenanthrene-d10 | 17.31 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 4,5,9,10-tetrahydro- | 206 | C16H14 | 000781-17-9 | 62 |
| 2 | Acephenanthrylene, 4,5-dihydro- | 204 | C16H12 | 006232-48-0 | 62 |
| 3 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 46 |
| 4 | Naphthalene, 1,2-dihydro-1-phenyl- | 206 | C16H14 | 016606-46-5 | 41 |
| 5 | Naphthalene, 1,2-dihydro-4-phenyl- | 206 | C16H14 | 007469-40-1 | 38 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081920\
Data File : BG046368.D
Acq On : 20 Aug 2020 6:49
Operator : CG/JU
Sample : L3633-03
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMA1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

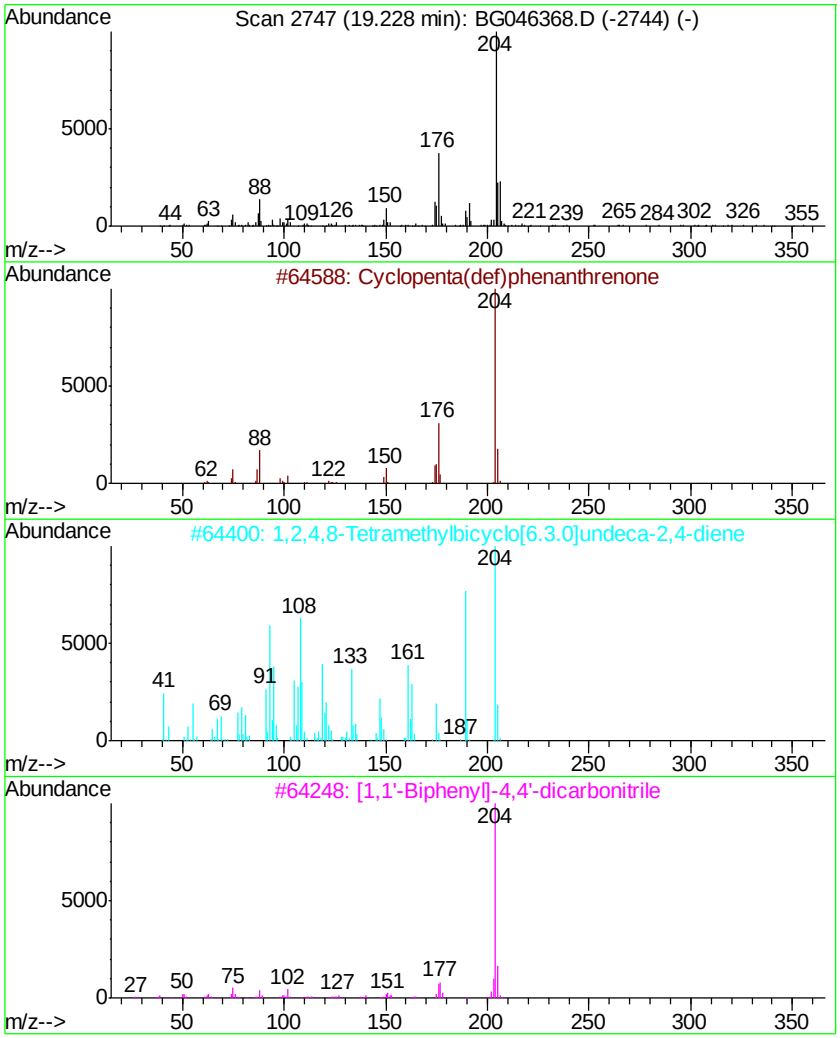
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

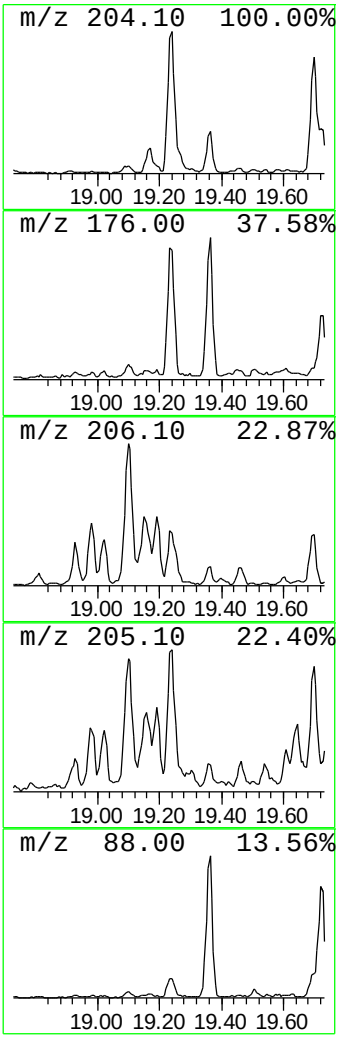
**********

Peak Number 25 Cyclopenta(def)phenanthrenone Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.23 | 3.94 ng/ul | 308446 | Phenanthrene-d10 | 17.31 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopenta(def)phenanthrenone | 204 | C15H8O | 005737-13-3 | 95 |
| 2 | 1,2,4,8-Tetramethylbicyclo[6.3.0... | 204 | C15H24 | 137235-51-9 | 87 |
| 3 | [1,1'-Biphenyl]-4,4'-dicarbonitrile | 204 | C14H8N2 | 001591-30-6 | 58 |
| 4 | [1,1'-Biphenyl]-2-ol, 5-chloro- | 204 | C12H9ClO | 000607-12-5 | 47 |
| 5 | Acephenanthrylene, 4,5-dihydro- | 204 | C16H12 | 006232-48-0 | 47 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081920\
Data File : BG046368.D
Acq On : 20 Aug 2020 6:49
Operator : CG/JU
Sample : L3633-03
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMA1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

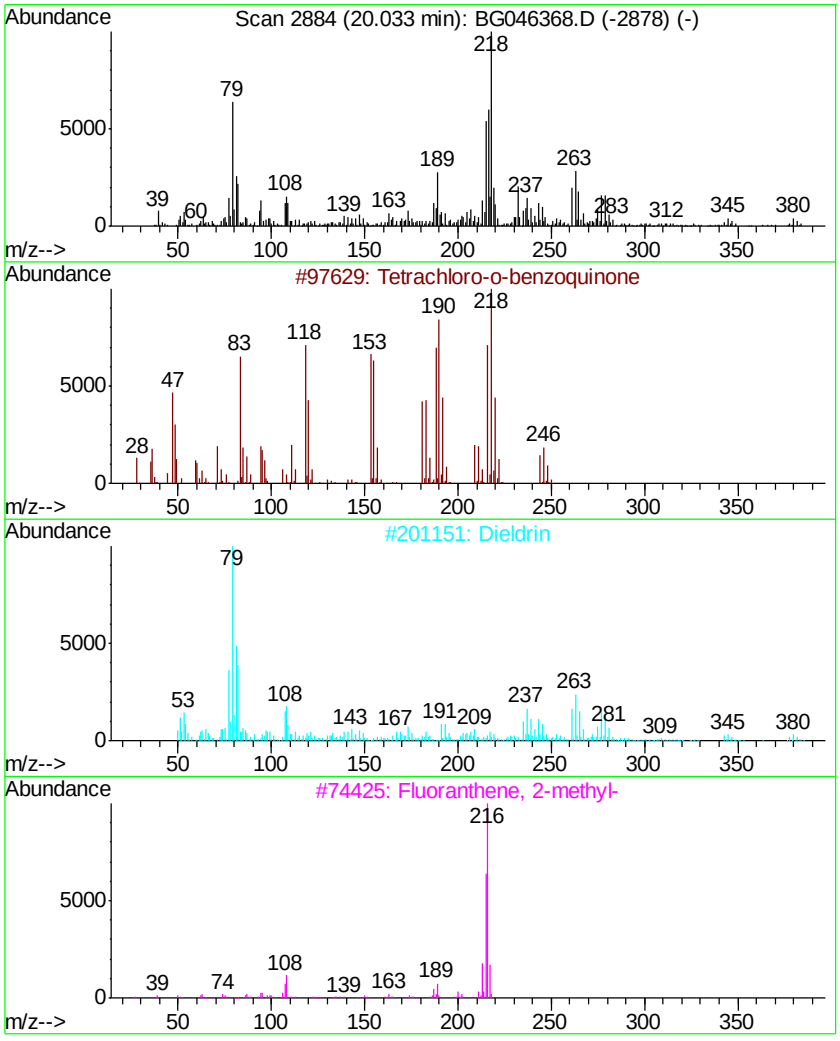
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

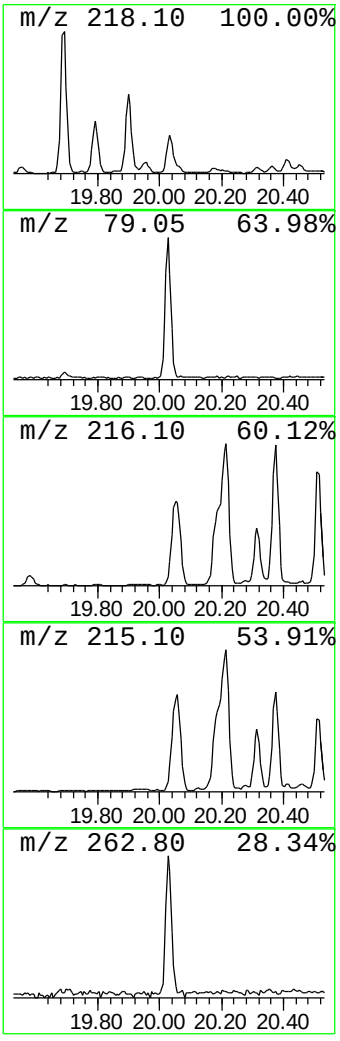
**********

Peak Number 26 Tetrachloro-o-benzoquinone Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.03 | 4.31 ng/ul | 853130 | Chrysene-d12 | 21.56 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetrachloro-o-benzoquinone | 244 | C6Cl4O2 | 002435-53-2 | 59 |
| 2 | Dieldrin | 378 | C12H8Cl6O | 000060-57-1 | 53 |
| 3 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 45 |
| 4 | Pyrene, 4-methyl- | 216 | C17H12 | 003353-12-6 | 45 |
| 5 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 45 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081920\
Data File : BG046368.D
Acq On : 20 Aug 2020 6:49
Operator : CG/JU
Sample : L3633-03
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMA1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

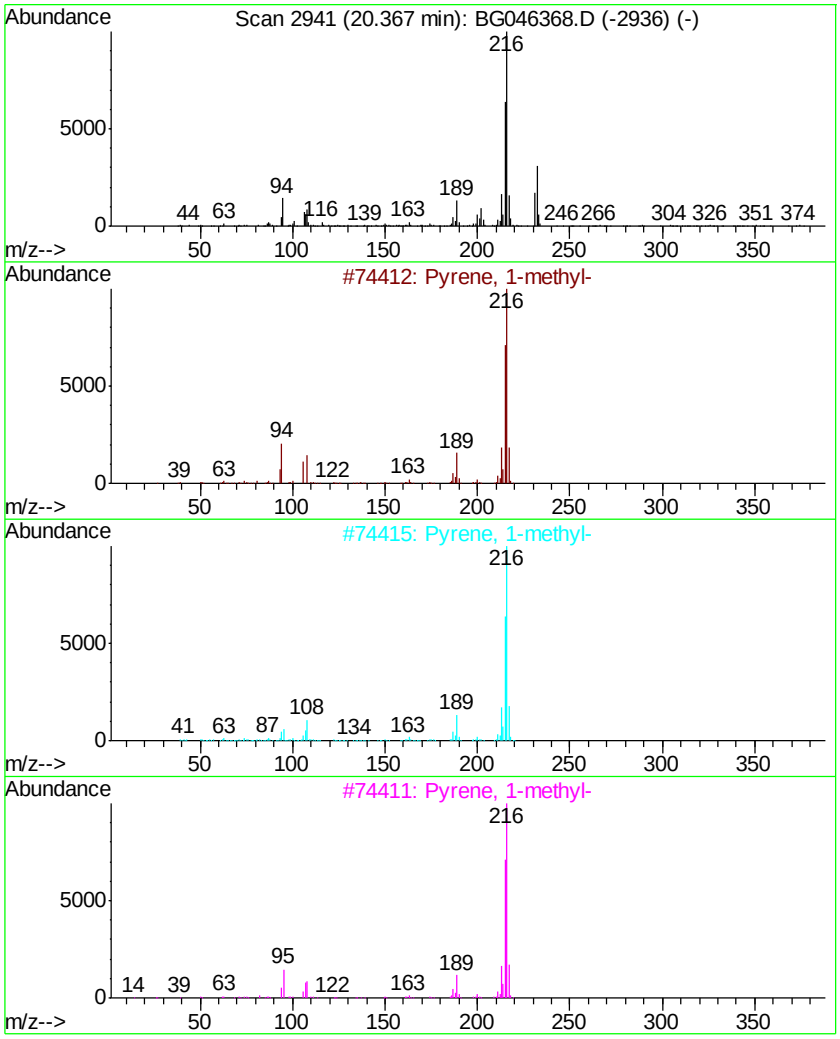
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

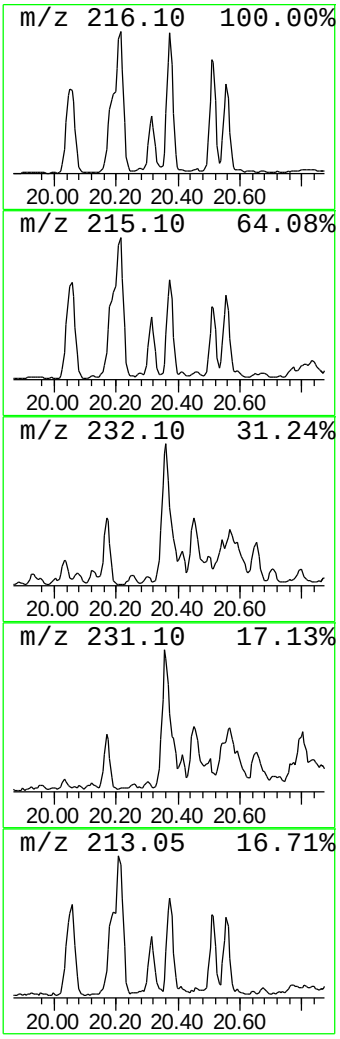
**********

Peak Number 27 Pyrene, 1-methyl- Concentration Rank 28

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.37 | 2.24 ng/ul | 443513 | Chrysene-d12 | 21.56 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 97 |
| 2 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 96 |
| 3 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 96 |
| 4 | Pyrene, 4-methyl- | 216 | C17H12 | 003353-12-6 | 95 |
| 5 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 94 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081920\
Data File : BG046368.D
Acq On : 20 Aug 2020 6:49
Operator : CG/JU
Sample : L3633-03
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMA1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

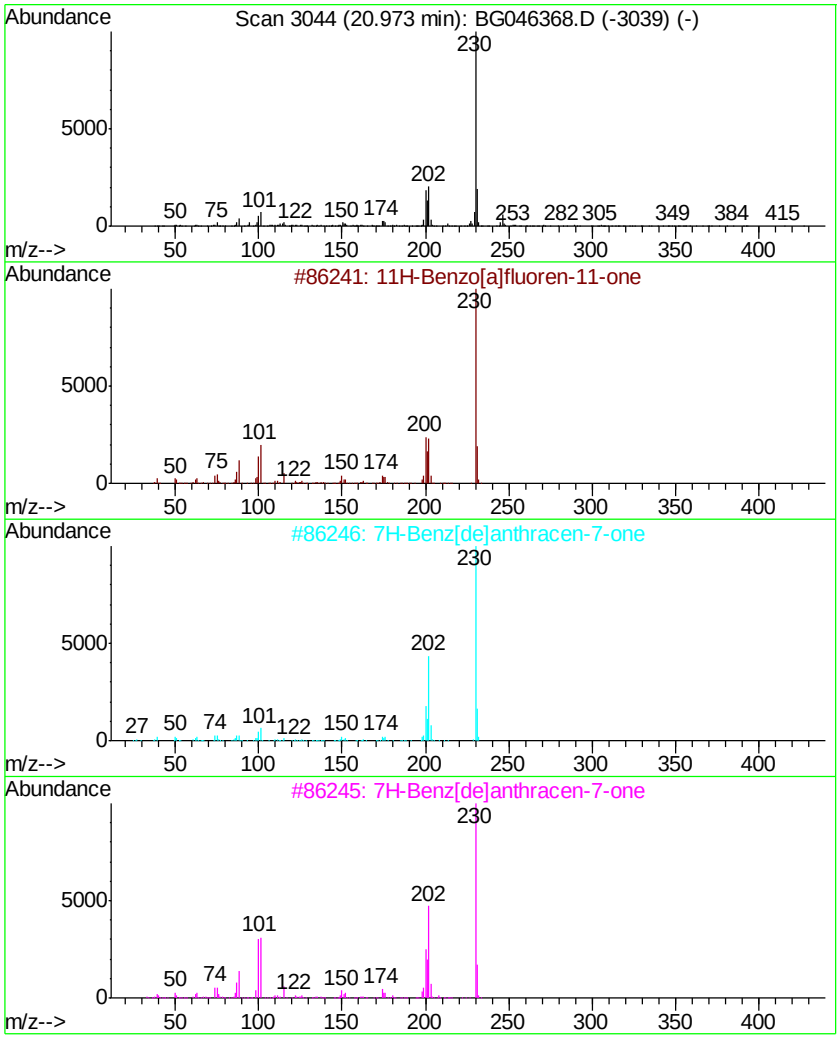
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

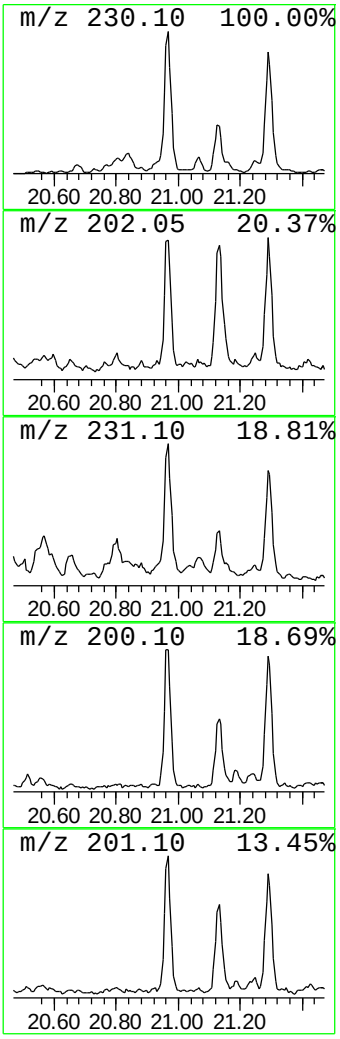
**********

Peak Number 28 11H-Benzo[a]fluoren-11-one Concentration Rank 26

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.97 | 2.26 ng/ul | 446331 | Chrysene-d12 | 21.56 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[a]fluoren-11-one | 230 | C17H10O | 000479-79-8 | 97 |
| 2 | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 91 |
| 3 | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 91 |
| 4 | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 83 |
| 5 | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 80 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081920\
Data File : BG046368.D
Acq On : 20 Aug 2020 6:49
Operator : CG/JU
Sample : L3633-03
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMA1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

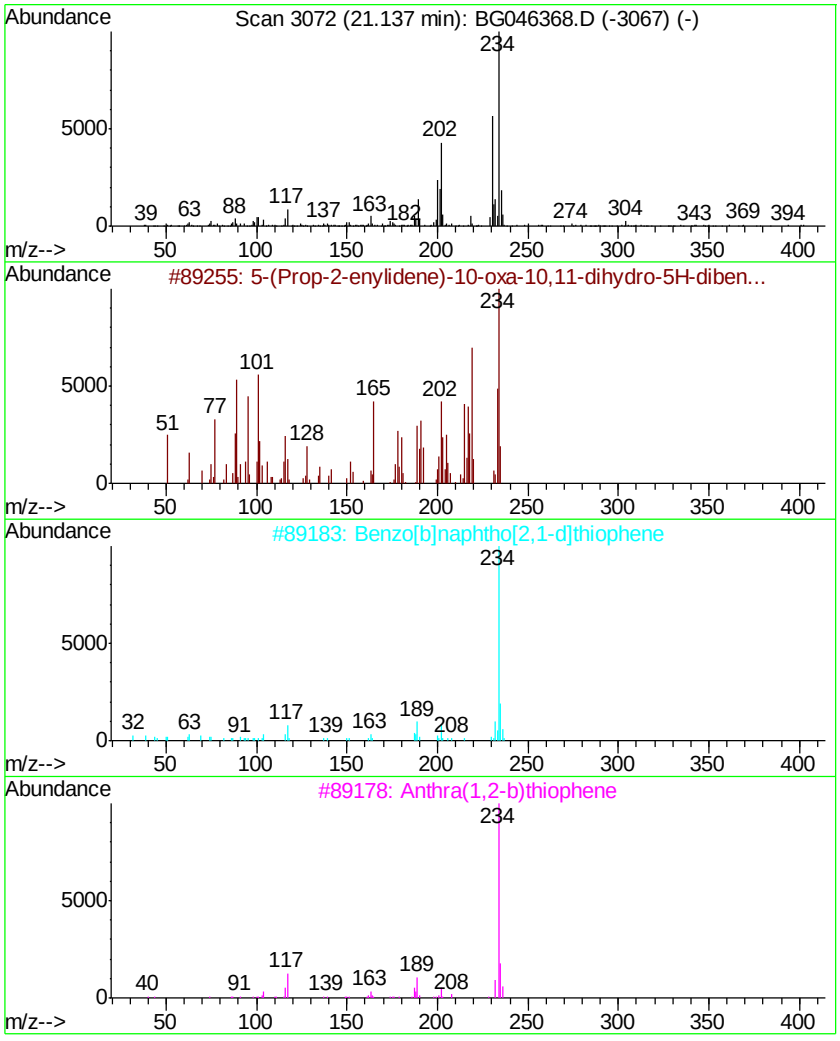
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

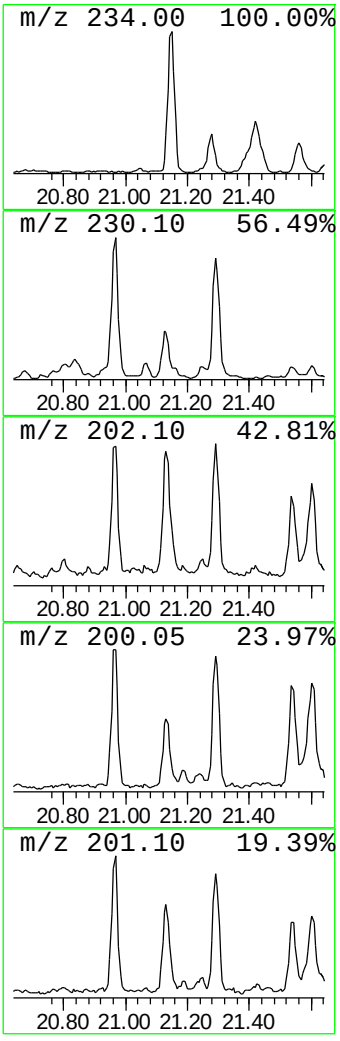
**********

Peak Number 29 5-(Prop-2-enylidene)-10-oxa... Concentration Rank 32

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.14 | 2.07 ng/ul | 410122 | Chrysene-d12 | 21.56 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5-(Prop-2-enylidene)-10-oxa-10,1... | 234 | C17H14O | 1000280-80-6 | 93 |
| 2 | Benzo[b]naphtho[2,1-d]thiophene | 234 | C16H10S | 000239-35-0 | 93 |
| 3 | Anthra(1,2-b)thiophene | 234 | C16H10S | 000227-86-1 | 91 |
| 4 | Benzo[b]naphtho[2,3-d]thiophene | 234 | C16H10S | 000243-46-9 | 87 |
| 5 | Benzo[b]naphtho[2,1-d]thiophene | 234 | C16H10S | 000239-35-0 | 87 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081920\
Data File : BG046368.D
Acq On : 20 Aug 2020 6:49
Operator : CG/JU
Sample : L3633-03
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMA1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

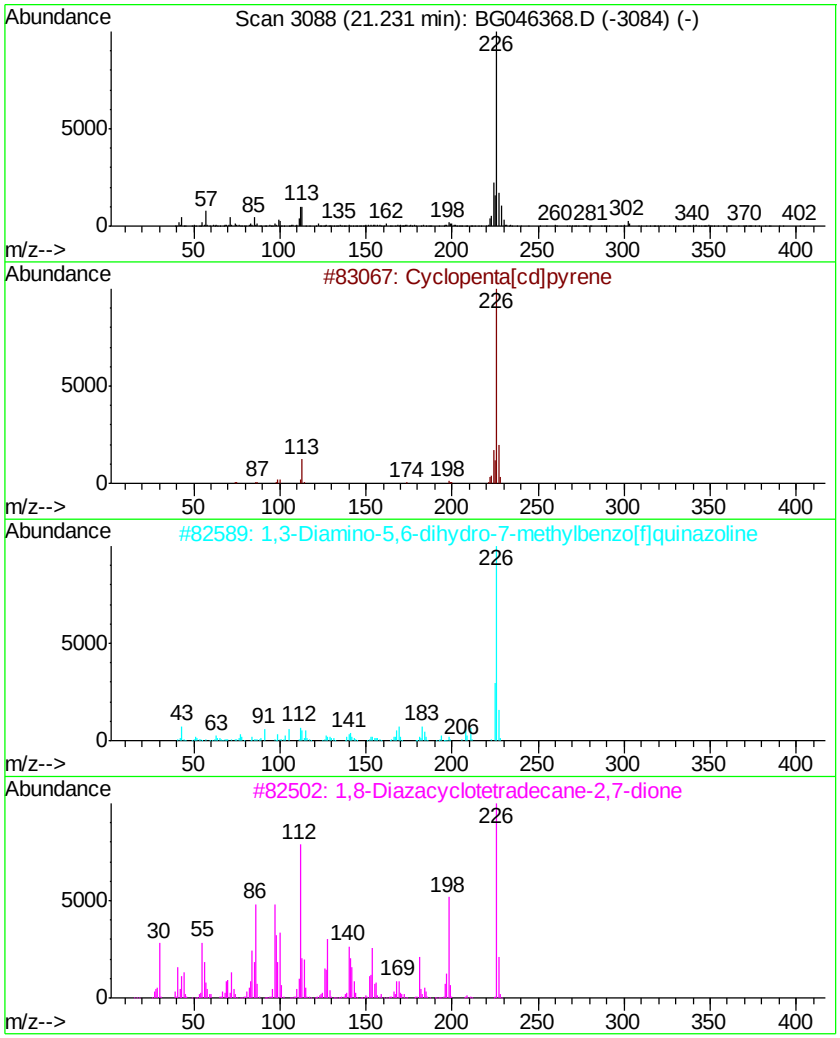
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

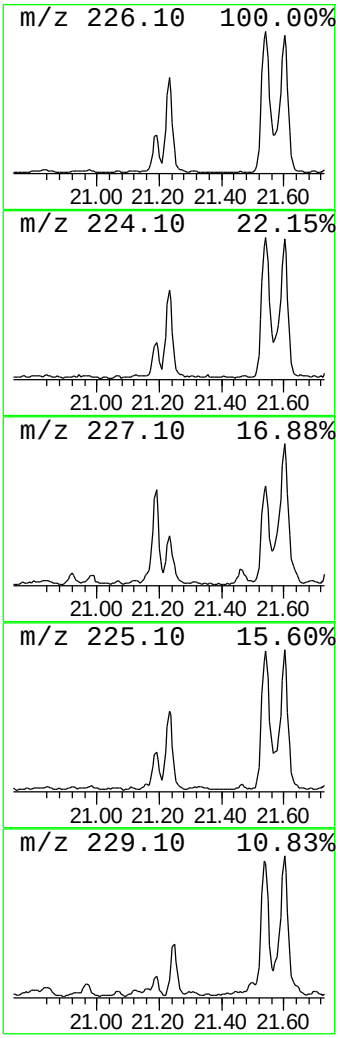
**********

Peak Number 30 Cyclopenta[cd]pyrene Concentration Rank 25

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.23 | 2.34 ng/ul | 463161 | Chrysene-d12 | 21.56 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopenta[cd]pyrene | 226 | C18H10 | 027208-37-3 | 70 |
| 2 | 1,3-Diamino-5,6-dihydro-7-methyl... | 226 | C13H14N4 | 037436-37-6 | 50 |
| 3 | 1,8-Diazacyclotetradecane-2,7-dione | 226 | C12H22N2O2 | 004266-66-4 | 47 |
| 4 | Benzene, 1-bromo-2,6-dichloro- | 224 | C6H3BrCl2 | 019393-92-1 | 45 |
| 5 | Benzo[ghi]fluoranthene | 226 | C18H10 | 000203-12-3 | 42 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG081920\
Data File : BG046368.D
Acq On : 20 Aug 2020 6:49
Operator : CG/JU
Sample : L3633-03
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMA1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.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... | 3.14 | 71.5 | ng/ul | 2010350 | 1 | 7.94 | 562020 | 20.0 |
| unknown-01 | 3.92 | 3.0 | ng/ul | 83200 | 1 | 7.94 | 562020 | 20.0 |
| Hexanoic acid, an... | 7.11 | 17.6 | ng/ul | 495538 | 1 | 7.94 | 562020 | 20.0 |
| unknown-02 | 7.27 | 13.7 | ng/ul | 384358 | 1 | 7.94 | 562020 | 20.0 |
| unknown-03 | 7.47 | 18.4 | ng/ul | 517707 | 1 | 7.94 | 562020 | 20.0 |
| Ethanol, 2-(2-eth... | 7.54 | 2.0 | ng/ul | 56657 | 1 | 7.94 | 562020 | 20.0 |
| unknown-04 | 8.65 | 20.5 | ng/ul | 576124 | 1 | 7.94 | 562020 | 20.0 |
| 1H-Imidazole, 4-m... | 9.09 | 17.5 | ng/ul | 492914 | 1 | 7.94 | 562020 | 20.0 |
| unknown-05 | 9.82 | 9.7 | ng/ul | 414932 | 2 | 10.74 | 858480 | 20.0 |
| unknown-06 | 10.87 | 9.8 | ng/ul | 421797 | 2 | 10.74 | 858480 | 20.0 |
| unknown-07 | 13.97 | 16.6 | ng/ul | 1044530 | 3 | 14.57 | 1255940 | 20.0 |
| Dimethyl phthalate | 14.02 | 8.4 | ng/ul | 529106 | 3 | 14.57 | 1255940 | 20.0 |
| unknown-08 | 14.76 | 5.4 | ng/ul | 337216 | 3 | 14.57 | 1255940 | 20.0 |
| unknown-09 | 15.67 | 6.8 | ng/ul | 425188 | 3 | 14.57 | 1255940 | 20.0 |
| 9H-Fluoren-9-one | 16.96 | 2.2 | ng/ul | 170551 | 4 | 17.31 | 1566100 | 20.0 |
| 5H-Indeno[1,2-b]p... | 17.71 | 2.0 | ng/ul | 158936 | 4 | 17.31 | 1566100 | 20.0 |
| Phenanthrene, 2-m... | 18.19 | 3.6 | ng/ul | 282163 | 4 | 17.31 | 1566100 | 20.0 |
| Phenanthrene, 1-m... | 18.23 | 5.0 | ng/ul | 394865 | 4 | 17.31 | 1566100 | 20.0 |
| 4H-Cyclopenta[def... | 18.38 | 5.4 | ng/ul | 425044 | 4 | 17.31 | 1566100 | 20.0 |
| Anthracene, 2-met... | 18.42 | 2.5 | ng/ul | 198808 | 4 | 17.31 | 1566100 | 20.0 |
| 5,16[1',2']:8,13[... | 18.68 | 3.2 | ng/ul | 252691 | 4 | 17.31 | 1566100 | 20.0 |
| 9,10-Anthracenedione | 18.72 | 4.1 | ng/ul | 319224 | 4 | 17.31 | 1566100 | 20.0 |
| Phenanthrene, 2,5... | 19.10 | 4.2 | ng/ul | 331424 | 4 | 17.31 | 1566100 | 20.0 |
| Pyrene, 4,5,9,10-... | 19.16 | 2.3 | ng/ul | 176187 | 4 | 17.31 | 1566100 | 20.0 |
| Cyclopenta(def)ph... | 19.23 | 3.9 | ng/ul | 308446 | 4 | 17.31 | 1566100 | 20.0 |
| Tetrachloro-o-ben... | 20.03 | 4.3 | ng/ul | 853130 | 5 | 21.56 | 3957530 | 20.0 |
| Pyrene, 1-methyl- | 20.37 | 2.2 | ng/ul | 443513 | 5 | 21.56 | 3957530 | 20.0 |
| 11H-Benzo[a]fluor... | 20.97 | 2.3 | ng/ul | 446331 | 5 | 21.56 | 3957530 | 20.0 |
| 5-(Prop-2-enylide... | 21.14 | 2.1 | ng/ul | 410122 | 5 | 21.56 | 3957530 | 20.0 |
| Cyclopenta[cd]pyrene | 21.23 | 2.3 | ng/ul | 463161 | 5 | 21.56 | 3957530 | 20.0 |