

Data Path : Z:\HPCHEM1\BNA M\DATA\BM102517\  
 Data File : BM012469.D  
 Acq On : 26 Oct 2017 12:23  
 Operator : SJ/JU  
 Sample : I5756-07DL 5X  
 Misc :  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 B0CN1DL

## Integration Parameters: LSCINT.P

Integrator: RTE  
 Smoothing : OFF  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 1 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102417.M  
 Title : SVOA CALIBRATION

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 7.045       | 665           | 673         | 682          | rBV2     | 388839         | 749368        | 7.92%           | 0.543%        |
| 2         | 7.210       | 694           | 701         | 706          | rBV      | 282504         | 440646        | 4.66%           | 0.320%        |
| 3         | 7.410       | 725           | 735         | 741          | rBV      | 390080         | 623715        | 6.59%           | 0.452%        |
| 4         | 7.881       | 806           | 815         | 822          | rBV      | 2122289        | 3385412       | 35.78%          | 2.455%        |
| 5         | 8.581       | 927           | 934         | 944          | rBV      | 411793         | 668540        | 7.07%           | 0.485%        |
| 6         | 9.034       | 1004          | 1011        | 1019         | rVB      | 350900         | 592992        | 6.27%           | 0.430%        |
| 7         | 9.751       | 1125          | 1133        | 1139         | rBV      | 279111         | 470922        | 4.98%           | 0.341%        |
| 8         | 9.992       | 1165          | 1174        | 1183         | rBV      | 188855         | 342017        | 3.61%           | 0.248%        |
| 9         | 10.292      | 1215          | 1225        | 1234         | rVB      | 460946         | 801289        | 8.47%           | 0.581%        |
| 10        | 10.669      | 1280          | 1289        | 1295         | rBV      | 2854282        | 4716705       | 49.85%          | 3.420%        |
| 11        | 12.327      | 1563          | 1571        | 1579         | rVB      | 431254         | 702710        | 7.43%           | 0.510%        |
| 12        | 12.545      | 1598          | 1608        | 1616         | rBV      | 539248         | 893316        | 9.44%           | 0.648%        |
| 13        | 12.786      | 1643          | 1649        | 1658         | rBV      | 207782         | 343588        | 3.63%           | 0.249%        |
| 14        | 13.539      | 1772          | 1777        | 1790         | rVB      | 128286         | 337316        | 3.57%           | 0.245%        |
| 15        | 13.669      | 1793          | 1799        | 1800         | rBV      | 380789         | 481770        | 5.09%           | 0.349%        |
| 16        | 13.827      | 1820          | 1826        | 1831         | rVV      | 853084         | 1461449       | 15.45%          | 1.060%        |
| 17        | 13.880      | 1831          | 1835        | 1838         | rVV      | 546151         | 867546        | 9.17%           | 0.629%        |
| 18        | 13.916      | 1838          | 1841        | 1845         | rVV      | 755621         | 1044037       | 11.03%          | 0.757%        |
| 19        | 13.963      | 1845          | 1849        | 1854         | rVB      | 319601         | 464450        | 4.91%           | 0.337%        |
| 20        | 14.063      | 1859          | 1866        | 1870         | rVV      | 427268         | 693510        | 7.33%           | 0.503%        |
| 21        | 14.198      | 1883          | 1889        | 1892         | rBV      | 862292         | 1378581       | 14.57%          | 1.000%        |
| 22        | 14.227      | 1892          | 1894        | 1904         | rVB      | 736832         | 1020364       | 10.78%          | 0.740%        |
| 23        | 14.510      | 1931          | 1942        | 1948         | rBV2     | 3720850        | 5940692       | 62.79%          | 4.308%        |
| 24        | 14.569      | 1948          | 1952        | 1960         | rVV2     | 325998         | 615031        | 6.50%           | 0.446%        |
| 25        | 14.710      | 1970          | 1976        | 1986         | rBV3     | 316834         | 859321        | 9.08%           | 0.623%        |
| 26        | 14.804      | 1986          | 1992        | 1998         | rVV3     | 129166         | 296230        | 3.13%           | 0.215%        |
| 27        | 14.904      | 1998          | 2009        | 2016         | rVV      | 485866         | 930463        | 9.83%           | 0.675%        |
| 28        | 14.980      | 2017          | 2022        | 2028         | rVB      | 507417         | 699140        | 7.39%           | 0.507%        |
| 29        | 15.127      | 2039          | 2047        | 2051         | rBV2     | 433872         | 857460        | 9.06%           | 0.622%        |
| 30        | 15.174      | 2051          | 2055        | 2060         | rVB      | 331716         | 430504        | 4.55%           | 0.312%        |
| 31        | 15.298      | 2067          | 2076        | 2079         | rBV3     | 294047         | 728348        | 7.70%           | 0.528%        |
| 32        | 15.327      | 2079          | 2081        | 2085         | rVB      | 217946         | 241900        | 2.56%           | 0.175%        |
| 33        | 15.498      | 2101          | 2110        | 2114         | rBV      | 1069451        | 1622821       | 17.15%          | 1.177%        |
| 34        | 15.551      | 2114          | 2119        | 2124         | rBV2     | 716223         | 1058937       | 11.19%          | 0.768%        |

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 Misc :  
 ALS Vial : 32 Sample Multiplier: 1

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 ClientSampleId :  
 B0CN1DL

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Integrator: RTE  
 Smoothing : OFF  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 1 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102417.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 15.674 | 2137 | 2140 | 2144 | rVV2 | 214261  | 332736  | 3.52%  | 0.241% |
| 36 | 15.763 | 2151 | 2155 | 2164 | rVV4 | 208067  | 404175  | 4.27%  | 0.293% |
| 37 | 15.863 | 2164 | 2172 | 2180 | rVB7 | 323640  | 844131  | 8.92%  | 0.612% |
| 38 | 15.998 | 2192 | 2195 | 2202 | rVV3 | 178427  | 324987  | 3.43%  | 0.236% |
| 39 | 16.068 | 2202 | 2207 | 2217 | rVB5 | 102602  | 274830  | 2.90%  | 0.199% |
| 40 | 16.227 | 2229 | 2234 | 2247 | rVB4 | 348792  | 648029  | 6.85%  | 0.470% |
| 41 | 16.363 | 2253 | 2257 | 2261 | rBV  | 162477  | 270707  | 2.86%  | 0.196% |
| 42 | 16.557 | 2281 | 2290 | 2294 | rBV2 | 511795  | 1182627 | 12.50% | 0.858% |
| 43 | 16.604 | 2294 | 2298 | 2304 | rVB  | 488270  | 675674  | 7.14%  | 0.490% |
| 44 | 16.704 | 2311 | 2315 | 2320 | rVB2 | 355401  | 544210  | 5.75%  | 0.395% |
| 45 | 16.904 | 2345 | 2349 | 2357 | rVB5 | 180014  | 359797  | 3.80%  | 0.261% |
| 46 | 16.986 | 2358 | 2363 | 2373 | rVV8 | 126602  | 412483  | 4.36%  | 0.299% |
| 47 | 17.068 | 2373 | 2377 | 2385 | rVB  | 371873  | 599789  | 6.34%  | 0.435% |
| 48 | 17.251 | 2402 | 2408 | 2411 | rBV2 | 3788798 | 5654706 | 59.77% | 4.100% |
| 49 | 17.292 | 2411 | 2415 | 2420 | rVV  | 3739287 | 5228496 | 55.26% | 3.791% |
| 50 | 17.345 | 2420 | 2424 | 2427 | rVV  | 1032193 | 1391482 | 14.71% | 1.009% |
| 51 | 17.380 | 2427 | 2430 | 2435 | rVB  | 720084  | 960763  | 10.15% | 0.697% |
| 52 | 17.445 | 2435 | 2441 | 2445 | rBV2 | 355634  | 710535  | 7.51%  | 0.515% |
| 53 | 17.662 | 2473 | 2478 | 2483 | rBV4 | 139663  | 387662  | 4.10%  | 0.281% |
| 54 | 17.827 | 2499 | 2506 | 2512 | rVB2 | 529586  | 778090  | 8.22%  | 0.564% |
| 55 | 17.974 | 2526 | 2531 | 2537 | rVB  | 273781  | 497790  | 5.26%  | 0.361% |
| 56 | 18.121 | 2551 | 2556 | 2560 | rVV  | 1664577 | 2476169 | 26.17% | 1.796% |
| 57 | 18.168 | 2560 | 2564 | 2572 | rVB  | 2024542 | 3049411 | 32.23% | 2.211% |
| 58 | 18.251 | 2573 | 2578 | 2583 | rBV2 | 638501  | 998622  | 10.55% | 0.724% |
| 59 | 18.309 | 2583 | 2588 | 2593 | rVV2 | 1889731 | 3715410 | 39.27% | 2.694% |
| 60 | 18.351 | 2593 | 2595 | 2602 | rVB  | 1379125 | 1860562 | 19.66% | 1.349% |
| 61 | 18.439 | 2606 | 2610 | 2613 | rBV2 | 184339  | 276992  | 2.93%  | 0.201% |
| 62 | 18.521 | 2619 | 2624 | 2628 | rVB3 | 242072  | 363740  | 3.84%  | 0.264% |
| 63 | 18.621 | 2636 | 2641 | 2645 | rBV2 | 648309  | 895577  | 9.47%  | 0.649% |
| 64 | 18.662 | 2645 | 2648 | 2654 | rVB3 | 245412  | 470805  | 4.98%  | 0.341% |
| 65 | 18.839 | 2674 | 2678 | 2680 | rBV2 | 242380  | 348470  | 3.68%  | 0.253% |
| 66 | 18.868 | 2680 | 2683 | 2687 | rVV  | 554866  | 785448  | 8.30%  | 0.570% |
| 67 | 18.915 | 2688 | 2691 | 2695 | rVV  | 686571  | 971406  | 10.27% | 0.704% |
| 68 | 18.956 | 2695 | 2698 | 2702 | rVB2 | 500599  | 630078  | 6.66%  | 0.457% |
| 69 | 19.039 | 2707 | 2712 | 2716 | rBV  | 1795327 | 2756998 | 29.14% | 1.999% |
| 70 | 19.098 | 2716 | 2722 | 2726 | rVV3 | 914649  | 2064021 | 21.82% | 1.497% |
| 71 | 19.133 | 2726 | 2728 | 2731 | rVB  | 541354  | 519371  | 5.49%  | 0.377% |

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## Integration Parameters: LSCINT.P

Integrator: RTE  
 Smoothing : OFF  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 1 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102417.M  
 Title : SVOA CALIBRATION

|     |        |      |      |      |      |         |         |         |        |
|-----|--------|------|------|------|------|---------|---------|---------|--------|
| 72  | 19.174 | 2731 | 2735 | 2749 | rBV4 | 701376  | 1974286 | 20.87%  | 1.432% |
| 73  | 19.303 | 2752 | 2757 | 2762 | rBV  | 3325766 | 4375161 | 46.24%  | 3.173% |
| 74  | 19.362 | 2764 | 2767 | 2770 | rBV  | 333609  | 403782  | 4.27%   | 0.293% |
| 75  | 19.403 | 2770 | 2774 | 2778 | rVB2 | 436601  | 598482  | 6.33%   | 0.434% |
| 76  | 19.451 | 2779 | 2782 | 2785 | rVB  | 261898  | 282536  | 2.99%   | 0.205% |
| 77  | 19.492 | 2787 | 2789 | 2793 | rVB3 | 234418  | 274259  | 2.90%   | 0.199% |
| 78  | 19.545 | 2794 | 2798 | 2800 | rBV3 | 307055  | 400046  | 4.23%   | 0.290% |
| 79  | 19.633 | 2808 | 2813 | 2814 | rBV2 | 1326905 | 1545076 | 16.33%  | 1.120% |
| 80  | 19.662 | 2814 | 2818 | 2827 | rVV  | 4850712 | 7378087 | 77.98%  | 5.350% |
| 81  | 19.739 | 2827 | 2831 | 2836 | rVB2 | 663505  | 1054083 | 11.14%  | 0.764% |
| 82  | 19.898 | 2855 | 2858 | 2864 | rVB2 | 443179  | 646338  | 6.83%   | 0.469% |
| 83  | 19.986 | 2868 | 2873 | 2883 | rBV4 | 791785  | 2101376 | 22.21%  | 1.524% |
| 84  | 20.074 | 2885 | 2888 | 2891 | rVV3 | 226273  | 300934  | 3.18%   | 0.218% |
| 85  | 20.127 | 2892 | 2897 | 2898 | rVV3 | 622267  | 973573  | 10.29%  | 0.706% |
| 86  | 20.156 | 2899 | 2902 | 2906 | rVB  | 1189909 | 1523023 | 16.10%  | 1.104% |
| 87  | 20.256 | 2916 | 2919 | 2924 | rVB2 | 650163  | 772126  | 8.16%   | 0.560% |
| 88  | 20.315 | 2925 | 2929 | 2934 | rVB  | 1375714 | 1715126 | 18.13%  | 1.244% |
| 89  | 20.456 | 2949 | 2953 | 2956 | rBV  | 1233785 | 1595582 | 16.86%  | 1.157% |
| 90  | 20.498 | 2956 | 2960 | 2964 | rVB  | 1192733 | 1531929 | 16.19%  | 1.111% |
| 91  | 20.903 | 3026 | 3029 | 3035 | rVB2 | 644800  | 1075983 | 11.37%  | 0.780% |
| 92  | 20.992 | 3041 | 3044 | 3048 | rVB  | 387476  | 439870  | 4.65%   | 0.319% |
| 93  | 21.045 | 3050 | 3053 | 3055 | rBV2 | 413986  | 562358  | 5.94%   | 0.408% |
| 94  | 21.415 | 3110 | 3116 | 3120 | rBV2 | 5320379 | 9461290 | 100.00% | 6.861% |
| 95  | 21.456 | 3120 | 3123 | 3133 | rVB  | 2278118 | 3146033 | 33.25%  | 2.281% |
| 96  | 21.980 | 3210 | 3212 | 3217 | rVB  | 1110269 | 1264930 | 13.37%  | 0.917% |
| 97  | 22.033 | 3218 | 3221 | 3227 | rVB  | 850762  | 1150473 | 12.16%  | 0.834% |
| 98  | 23.033 | 3387 | 3391 | 3396 | rBV2 | 1004154 | 1963104 | 20.75%  | 1.424% |
| 99  | 23.627 | 3488 | 3492 | 3499 | rVB  | 1537370 | 2728305 | 28.84%  | 1.978% |
| 100 | 23.727 | 3504 | 3509 | 3515 | rVB  | 2829973 | 5239834 | 55.38%  | 3.800% |

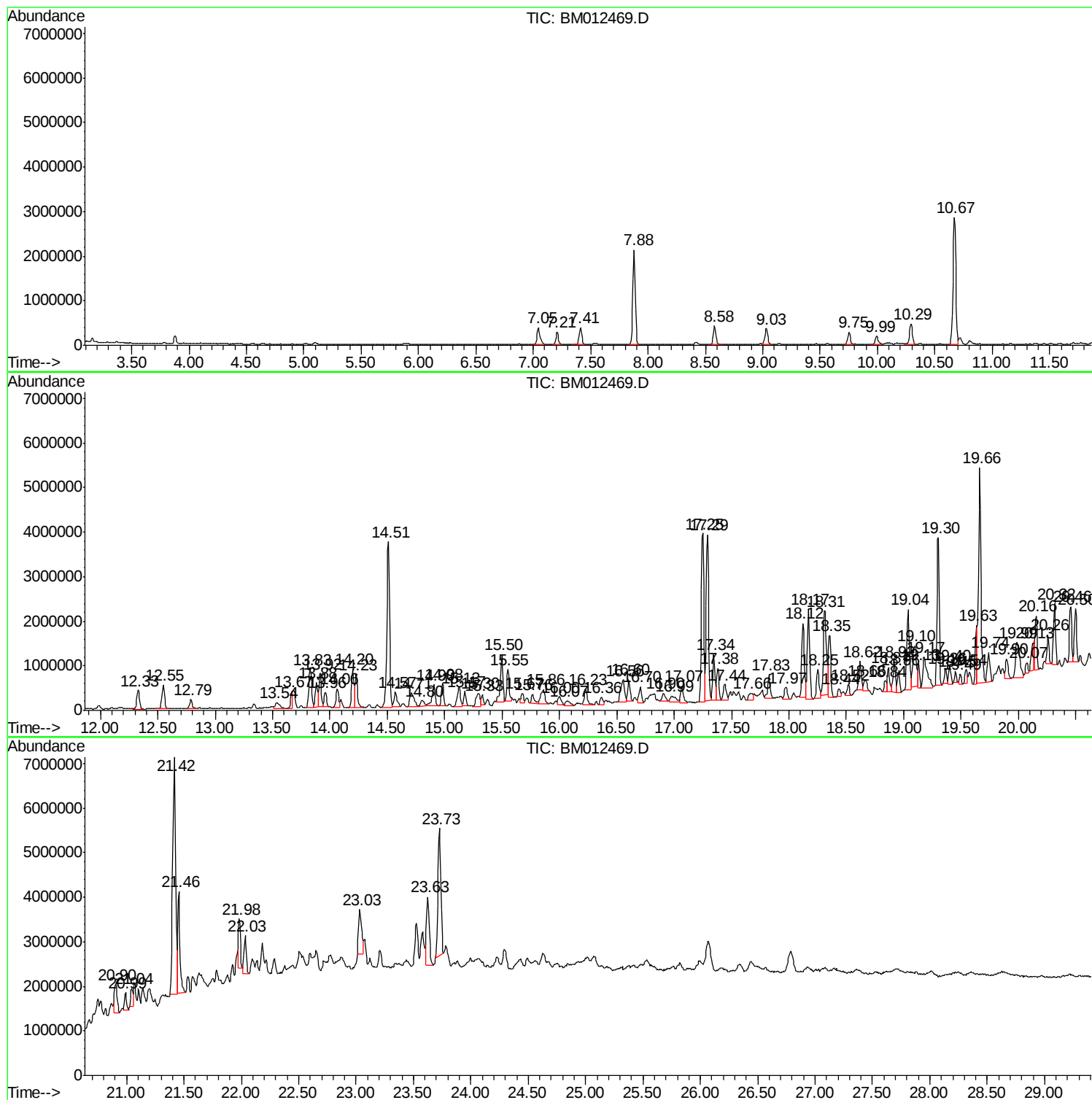
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Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM102417.M  
Quant Title : SVOA CALIBRATION

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



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Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM102417.M  
Quant Title : SVOA CALIBRATION

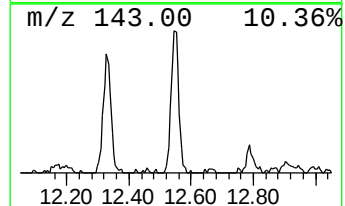
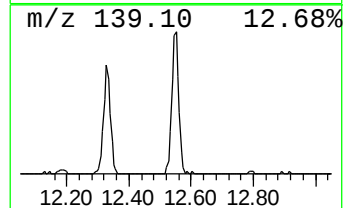
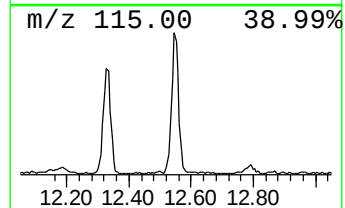
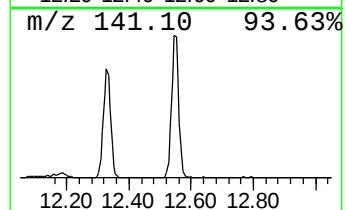
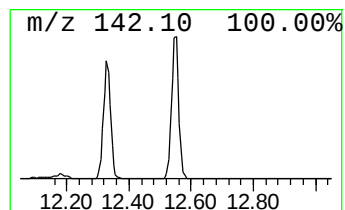
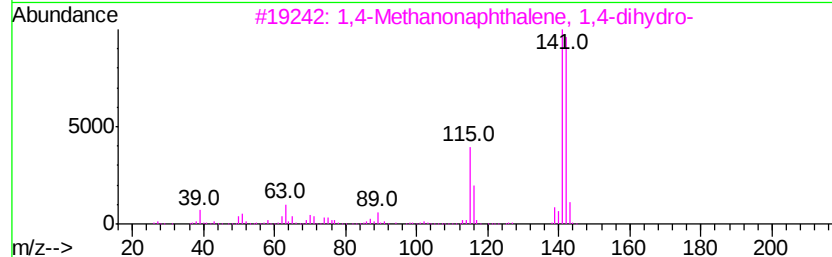
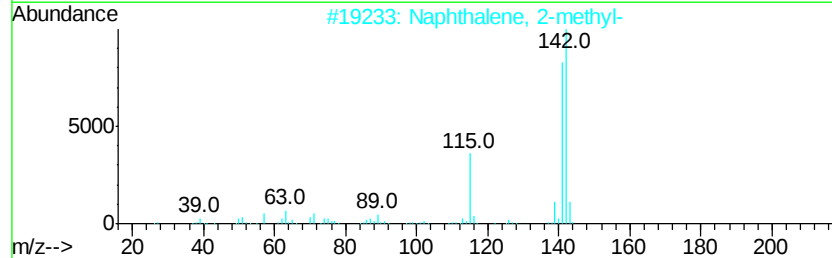
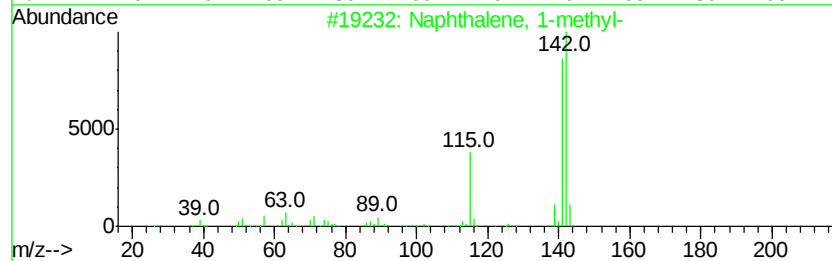
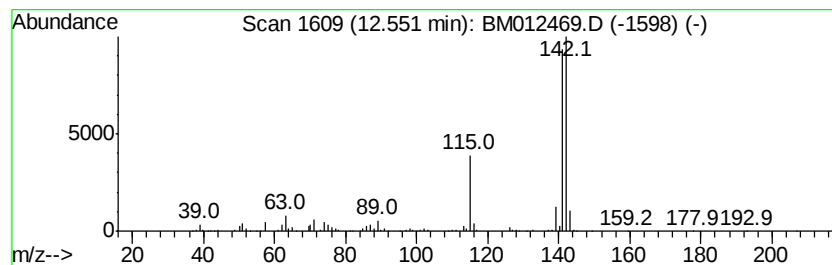
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 Naphthalene, 1-methyl- Concentration Rank 11

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 12.55 | 3.79 ng/ul | 893316 | Naphthalene-d8   | 10.67 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1-methyl-              | 142 | C11H10  | 000090-12-0 | 96   |
| 2    |    | Naphthalene, 2-methyl-              | 142 | C11H10  | 000091-57-6 | 96   |
| 3    |    | 1,4-Methanonaphthalene, 1,4-dihv... | 142 | C11H10  | 004453-90-1 | 94   |
| 4    |    | Naphthalene, 2-methyl-              | 142 | C11H10  | 000091-57-6 | 93   |
| 5    |    | Naphthalene, 1-methyl-              | 142 | C11H10  | 000090-12-0 | 91   |



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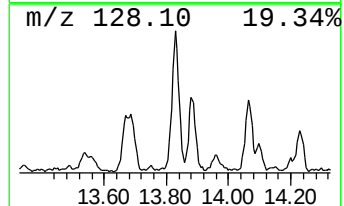
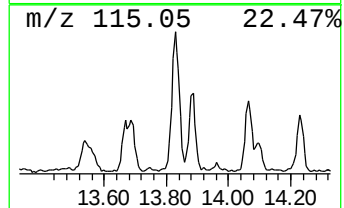
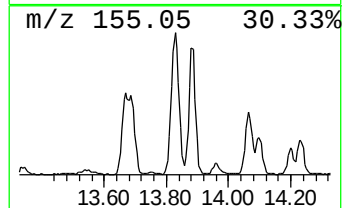
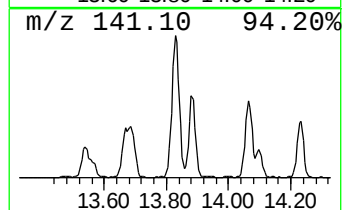
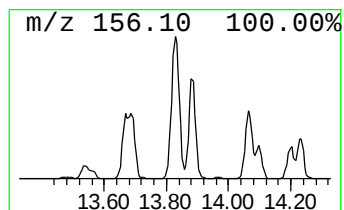
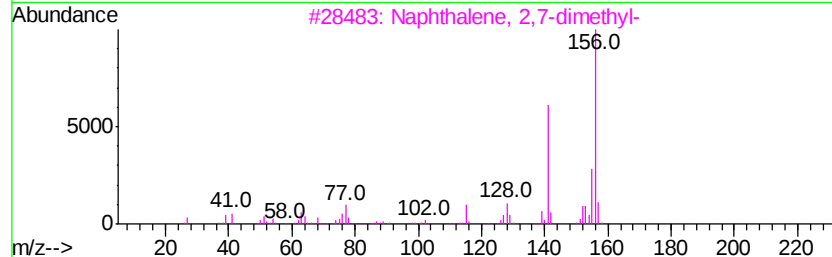
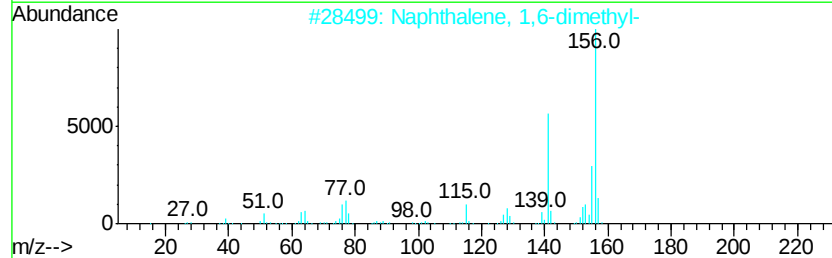
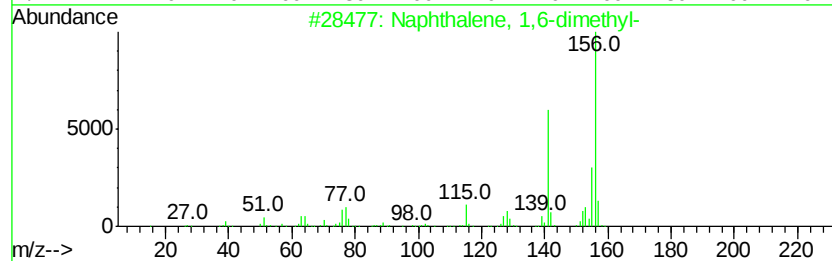
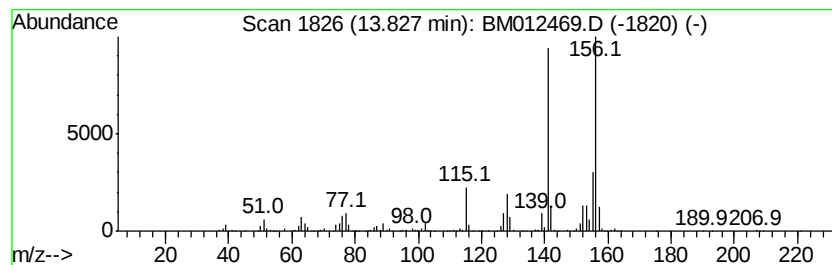
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 Naphthalene, 1,6-dimethyl- Concentration Rank 8

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 13.83 | 4.92 ng/ul | 1461450 | Acenaphthene-d10 | 14.51 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 97   |
| 2    |    | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 97   |
| 3    |    | Naphthalene, 2,7-dimethyl- | 156 | C12H12  | 000582-16-1 | 97   |
| 4    |    | Naphthalene, 1,3-dimethyl- | 156 | C12H12  | 000575-41-7 | 97   |
| 5    |    | Naphthalene, 2,6-dimethyl- | 156 | C12H12  | 000581-42-0 | 96   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM102517\  
Data File : BM012469.D  
Acq On : 26 Oct 2017 12:23  
Operator : SJ/JU  
Sample : I5756-07DL 5X  
Misc :  
ALS Vial : 32 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
B0CN1DL

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM102417.M  
Quant Title : SVOA CALIBRATION

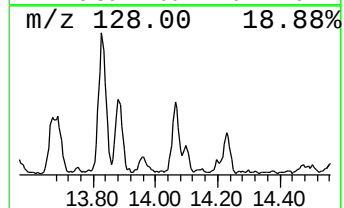
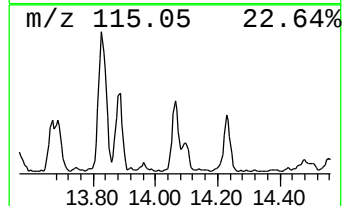
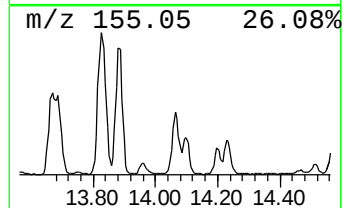
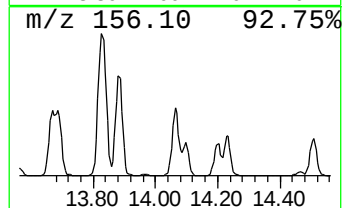
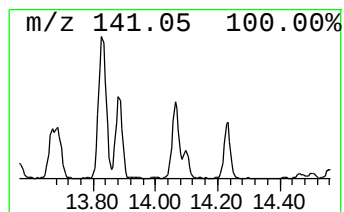
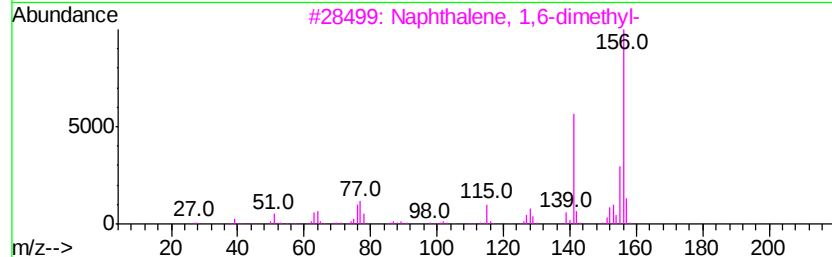
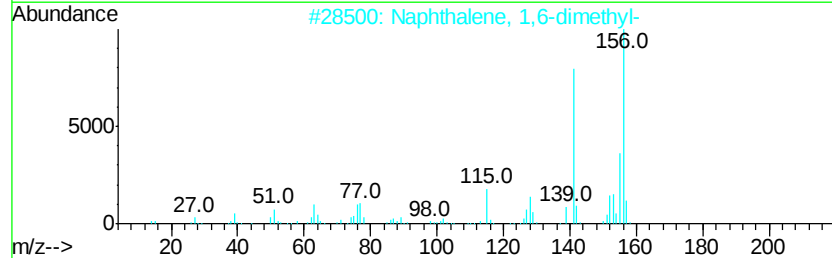
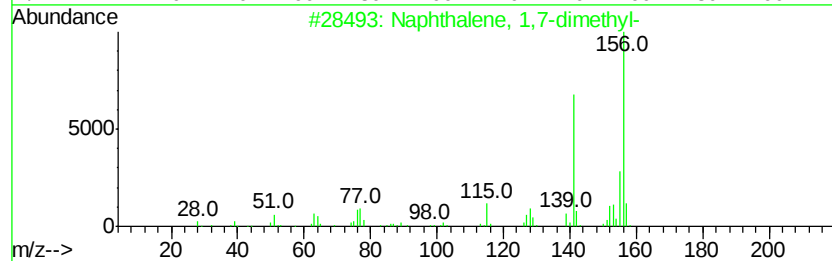
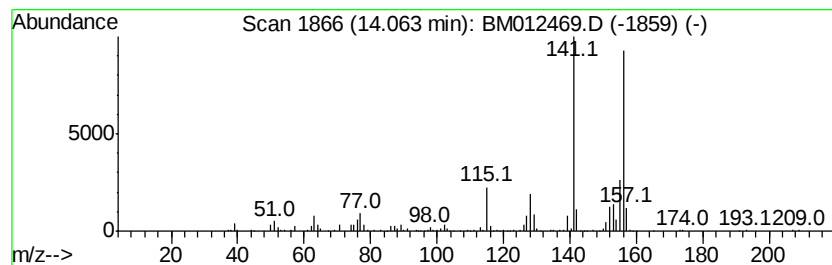
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Naphthalene, 1,7-dimethyl- Concentration Rank 30

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 14.06 | 2.33 ng/ul | 693510 | Acenaphthene-d10 | 14.51 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 96   |
| 2    |    | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 96   |
| 3    |    | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 96   |
| 4    |    | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 96   |
| 5    |    | Naphthalene, 2,6-dimethyl- | 156 | C12H12  | 000581-42-0 | 95   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM102517\  
Data File : BM012469.D  
Acq On : 26 Oct 2017 12:23  
Operator : SJ/JU  
Sample : I5756-07DL 5X  
Misc :  
ALS Vial : 32 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
B0CN1DL

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM102417.M  
Quant Title : SVOA CALIBRATION

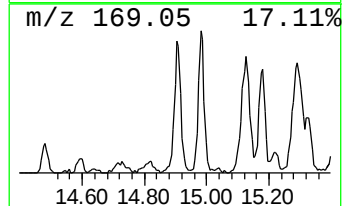
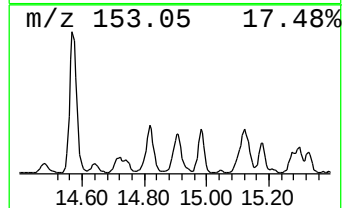
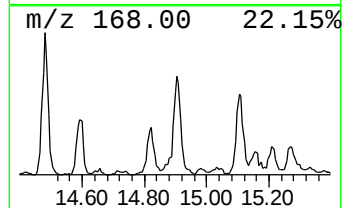
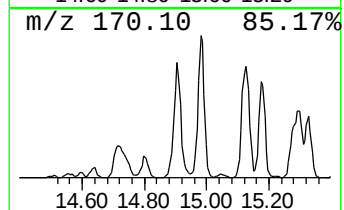
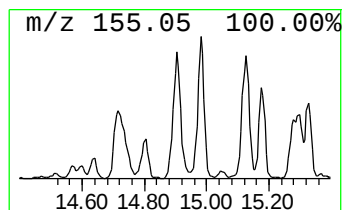
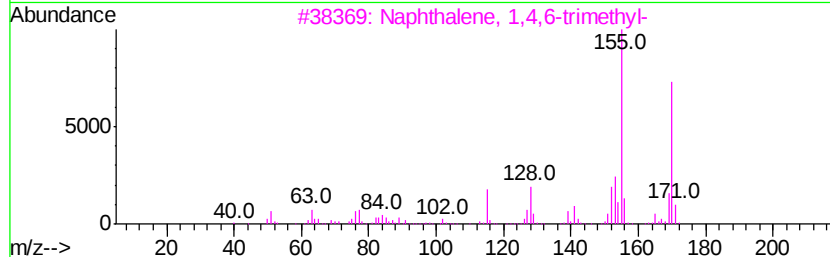
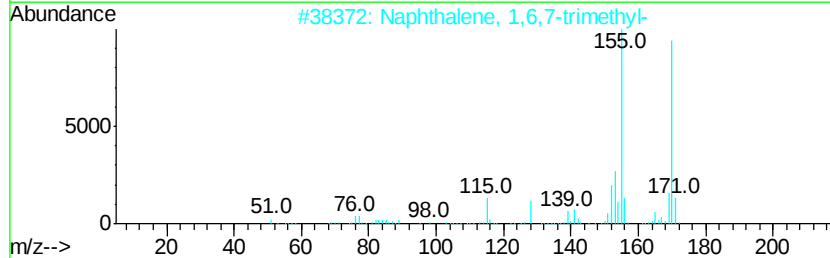
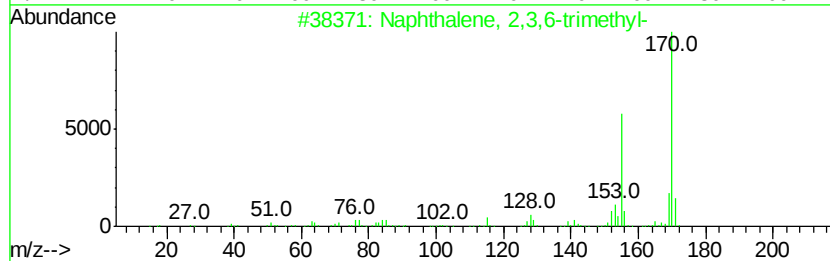
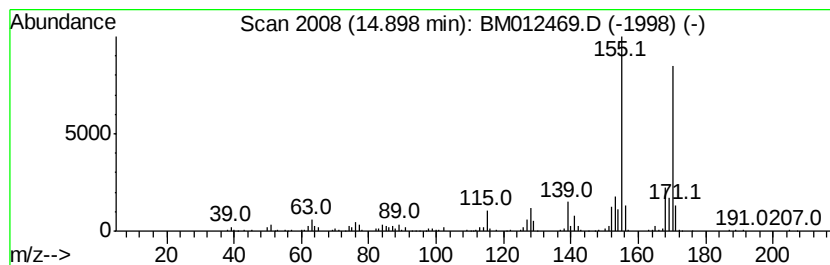
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Naphthalene, 2,3,6-trimethyl- Concentration Rank 19

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 14.90 | 3.13 ng/ul | 930463 | Acenaphthene-d10 | 14.51 |

| Hit# | of | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14  | 000829-26-5 | 97   |
| 2    |    | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14  | 002245-38-7 | 96   |
| 3    |    | Naphthalene, 1,4,6-trimethyl- | 170 | C13H14  | 002131-42-2 | 95   |
| 4    |    | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14  | 000829-26-5 | 95   |
| 5    |    | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14  | 002245-38-7 | 95   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM102517\  
Data File : BM012469.D  
Acq On : 26 Oct 2017 12:23  
Operator : SJ/JU  
Sample : I5756-07DL 5X  
Misc :  
ALS Vial : 32 Sample Multiplier: 1

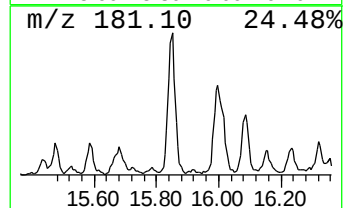
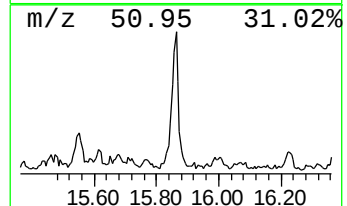
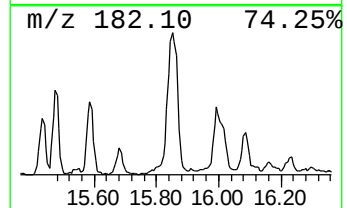
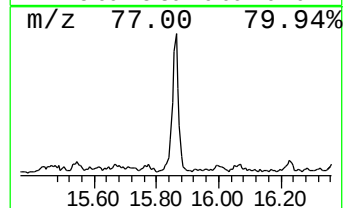
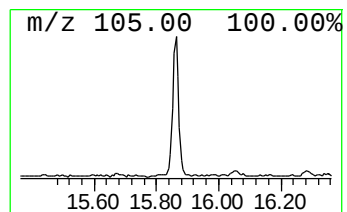
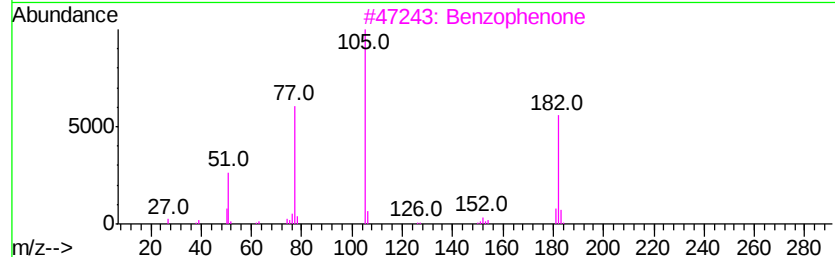
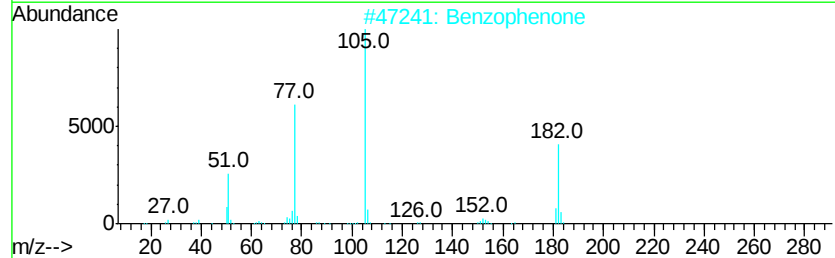
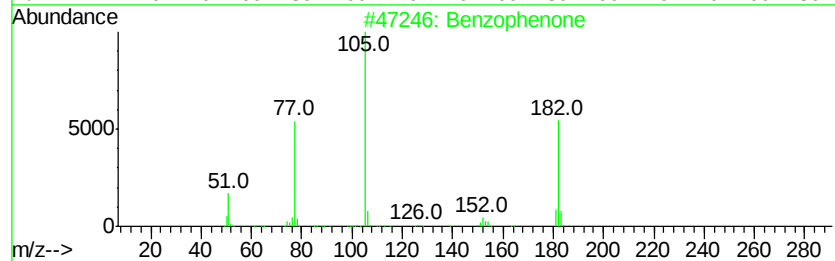
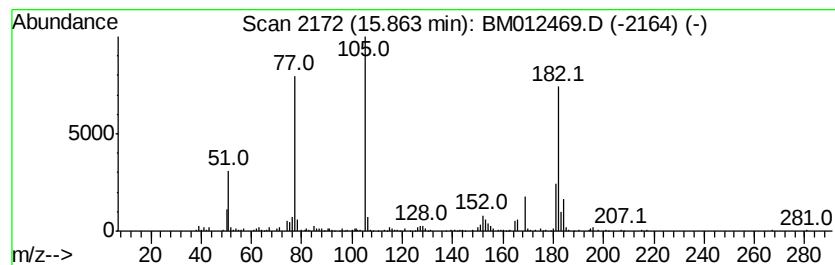
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ClientSampleId :  
B0CN1DL

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM102417.M  
Quant Title : SVOA CALIBRATION

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

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Peak Number 8 Benzophenone Concentration Rank 21

| R.T.    | EstConc      | Area         | Relative to ISTD | R.T.      |
|---------|--------------|--------------|------------------|-----------|
| 15.86   | 2.84 ng/ul   | 844131       | Acenaphthene-d10 | 14.51     |
| Hit# of | 5            | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Benzophenone | 182 C13H10O  | 000119-61-9      | 87        |
| 2       | Benzophenone | 182 C13H10O  | 000119-61-9      | 87        |
| 3       | Benzophenone | 182 C13H10O  | 000119-61-9      | 87        |
| 4       | Benzophenone | 182 C13H10O  | 000119-61-9      | 80        |
| 5       | Benzophenone | 182 C13H10O  | 000119-61-9      | 64        |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM102517\  
Data File : BM012469.D  
Acq On : 26 Oct 2017 12:23  
Operator : SJ/JU  
Sample : I5756-07DL 5X  
Misc :  
ALS Vial : 32 Sample Multiplier: 1

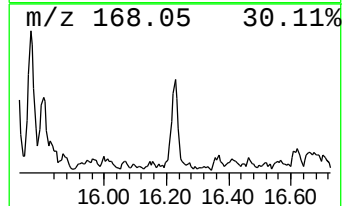
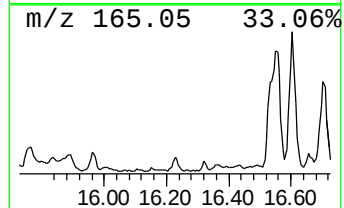
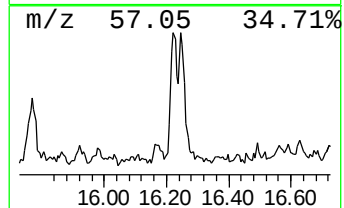
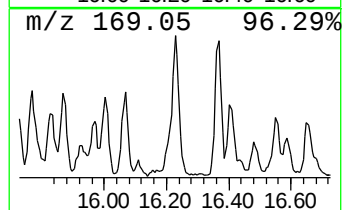
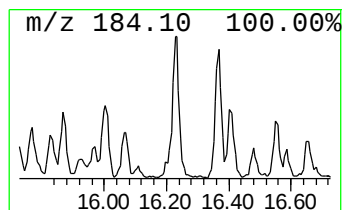
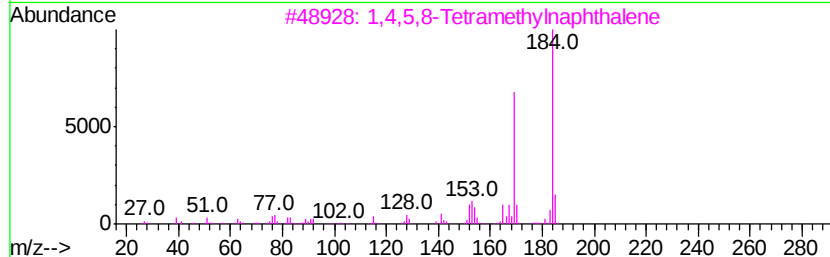
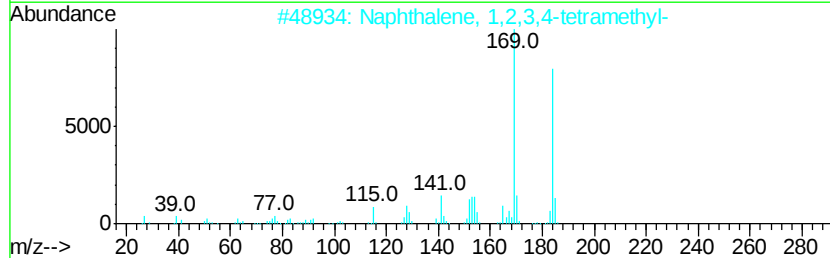
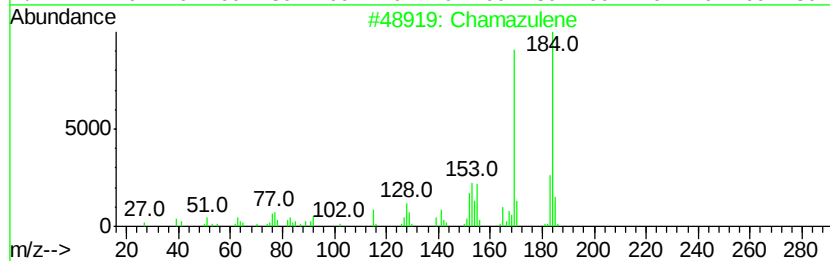
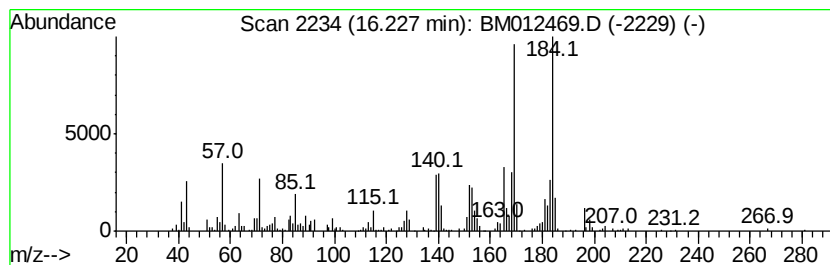
Instrument :  
BNA\_M  
ClientSampleId :  
B0CN1DL

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM102417.M  
Quant Title : SVOA CALIBRATION

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

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Peak Number 9 Chamazulene Concentration Rank 31

| R.T.    | EstConc                             | Area         | Relative to ISTD | R.T.      |
|---------|-------------------------------------|--------------|------------------|-----------|
| 16.23   | 2.29 ng/ul                          | 648029       | Phenanthrene-d10 | 17.25     |
| Hit# of | 5                                   | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Chamazulene                         | 184 C14H16   | 000529-05-5      | 93        |
| 2       | Naphthalene, 1,2,3,4-tetramethyl-   | 184 C14H16   | 003031-15-0      | 83        |
| 3       | 1,4,5,8-Tetramethylnaphthalene      | 184 C14H16   | 002717-39-7      | 68        |
| 4       | Naphthalene, 1-methyl-7-(1-methy... | 184 C14H16   | 000490-65-3      | 64        |
| 5       | Cyclopentene, 1,2-dimethyl-4-met... | 184 C14H16   | 1000152-22-4     | 58        |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM102517\  
Data File : BM012469.D  
Acq On : 26 Oct 2017 12:23  
Operator : SJ/JU  
Sample : I5756-07DL 5X  
Misc :  
ALS Vial : 32 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM102417.M  
Quant Title : SVOA CALIBRATION

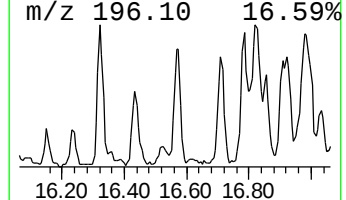
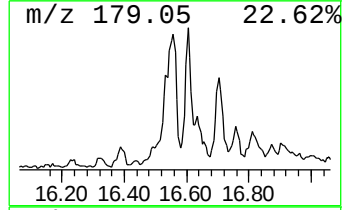
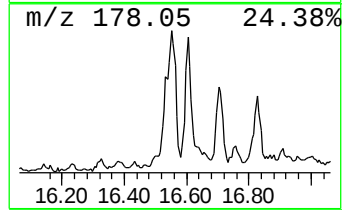
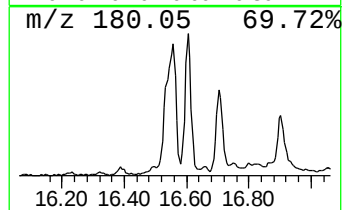
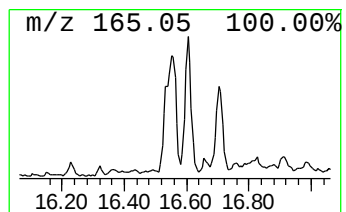
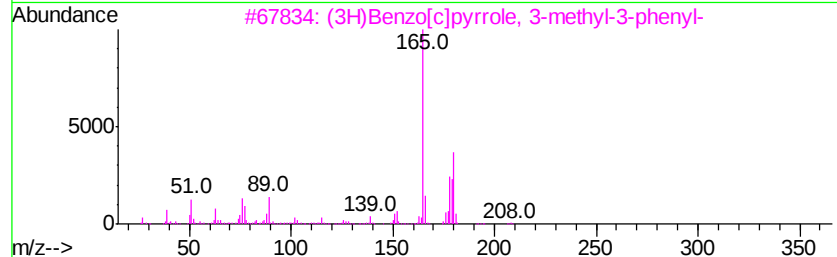
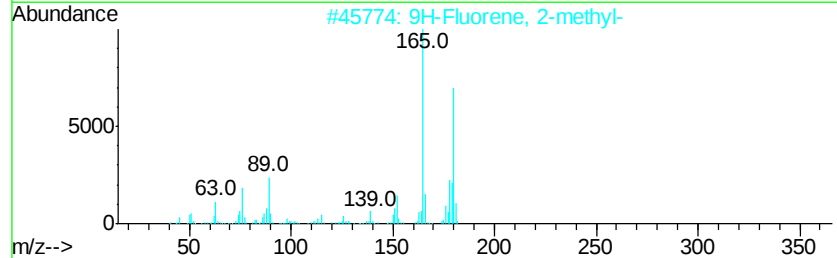
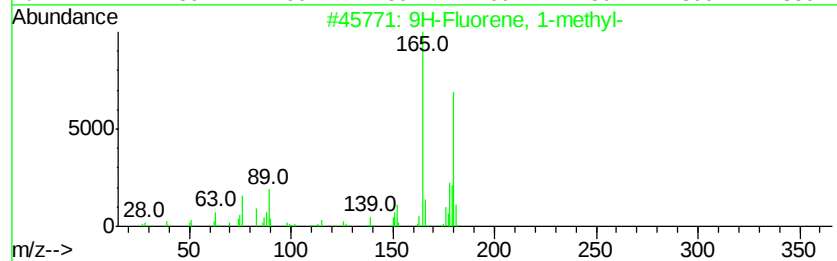
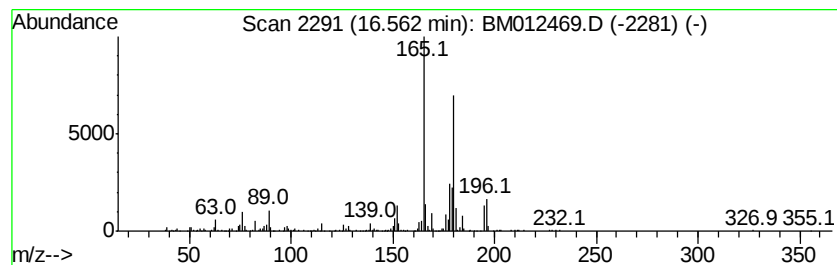
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 9H-Fluorene, 1-methyl- Concentration Rank 10

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 16.56 | 4.18 ng/ul | 1182630 | Phenanthrene-d10 | 17.25 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|----------|-------------|------|
| 1    |    |   | 9H-Fluorene, 1-methyl-              | 180 | C14H12   | 001730-37-6 | 96   |
| 2    |    |   | 9H-Fluorene, 2-methyl-              | 180 | C14H12   | 001430-97-3 | 96   |
| 3    |    |   | (3H)Benzo[c]pyrrole, 3-methyl-3-... | 208 | C14H12N2 | 059341-20-7 | 91   |
| 4    |    |   | 9H-Fluorene, 1-methyl-              | 180 | C14H12   | 001730-37-6 | 90   |
| 5    |    |   | 9H-Fluorene, 1-methyl-              | 180 | C14H12   | 001730-37-6 | 89   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM102517\  
Data File : BM012469.D  
Acq On : 26 Oct 2017 12:23  
Operator : SJ/JU  
Sample : I5756-07DL 5X  
Misc :  
ALS Vial : 32 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
B0CN1DL

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM102417.M  
Quant Title : SVOA CALIBRATION

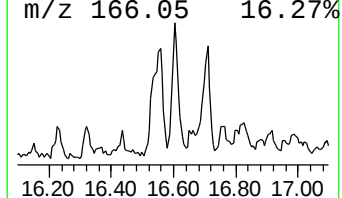
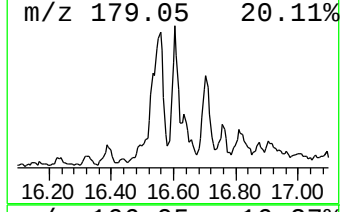
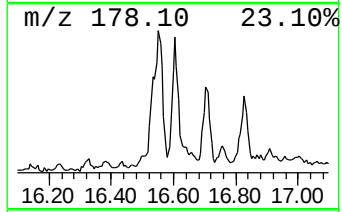
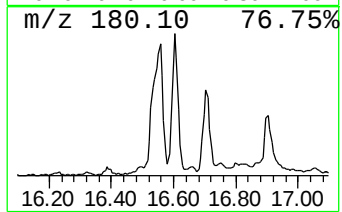
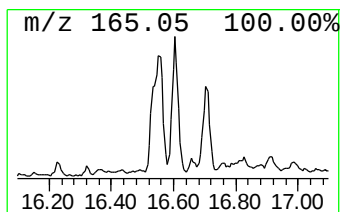
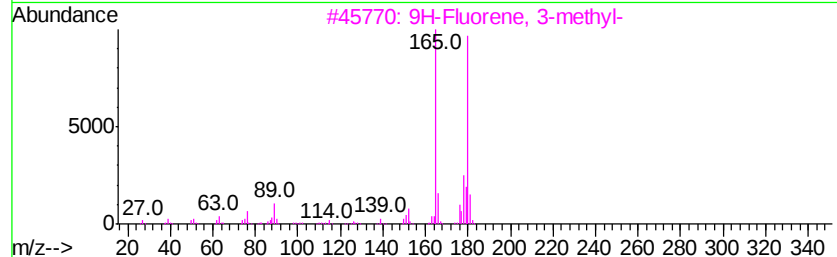
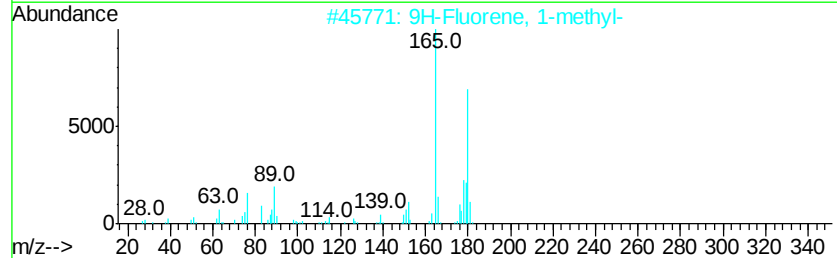
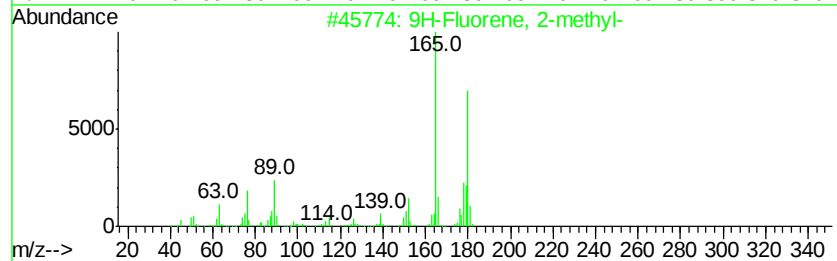
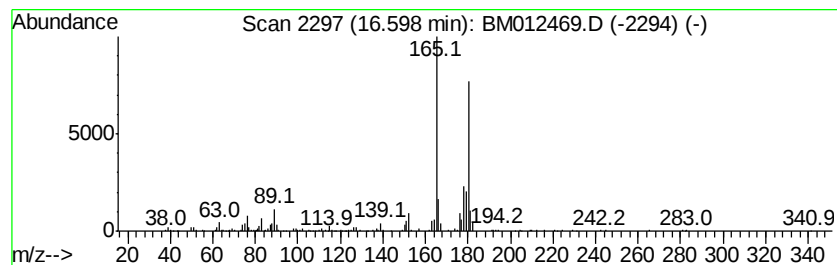
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 9H-Fluorene, 2-methyl- Concentration Rank 28

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 16.60 | 2.39 ng/ul | 675674 | Phenanthrene-d10 | 17.25 |

| Hit# | of | 5 | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------|-----|---------|-------------|------|
| 1    |    |   | 9H-Fluorene, 2-methyl- | 180 | C14H12  | 001430-97-3 | 96   |
| 2    |    |   | 9H-Fluorene, 1-methyl- | 180 | C14H12  | 001730-37-6 | 96   |
| 3    |    |   | 9H-Fluorene, 3-methyl- | 180 | C14H12  | 002523-39-9 | 95   |
| 4    |    |   | 9H-Fluorene, 2-methyl- | 180 | C14H12  | 001430-97-3 | 93   |
| 5    |    |   | 9H-Fluorene, 9-methyl- | 180 | C14H12  | 002523-37-7 | 91   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM102517\  
Data File : BM012469.D  
Acq On : 26 Oct 2017 12:23  
Operator : SJ/JU  
Sample : I5756-07DL 5X  
Misc :  
ALS Vial : 32 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
B0CN1DL

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM102417.M  
Quant Title : SVOA CALIBRATION

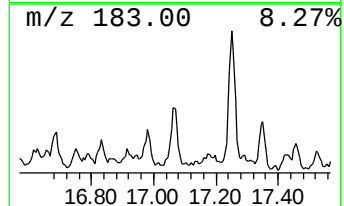
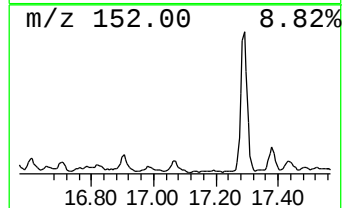
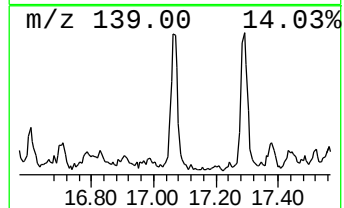
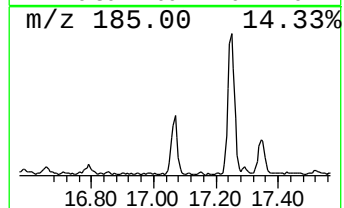
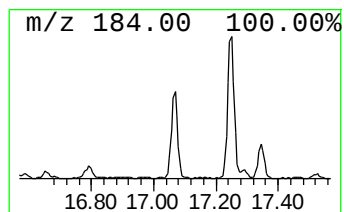
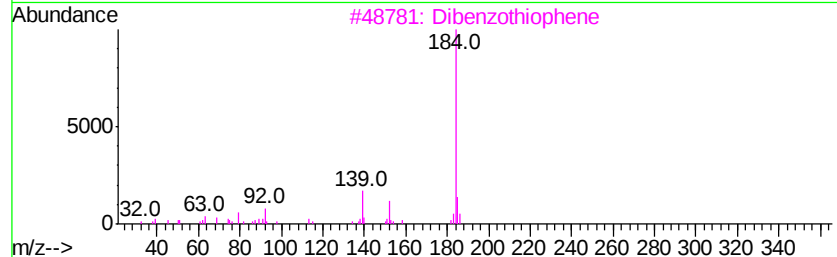
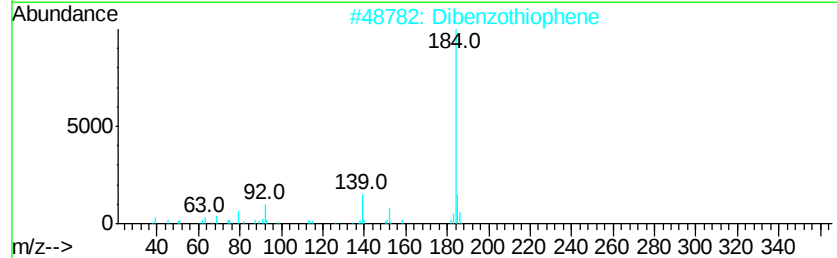
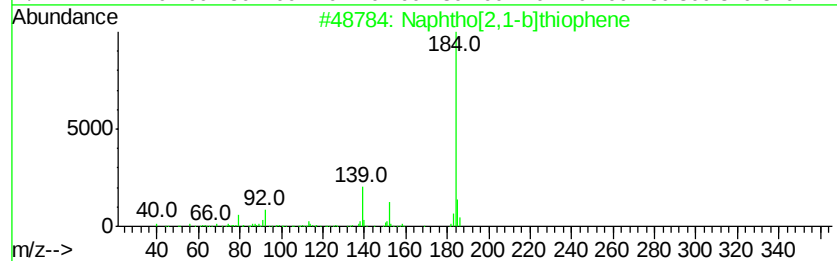
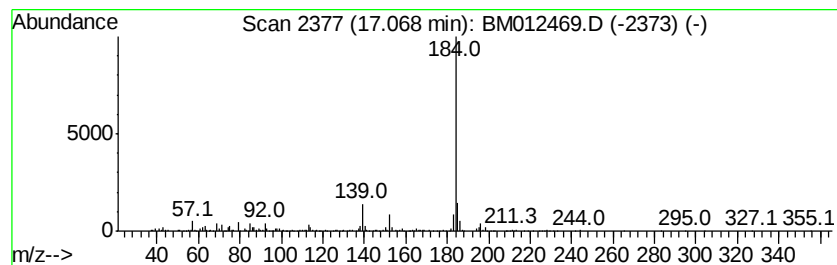
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 12 Naphtho[2,1-b]thiophene Concentration Rank 35

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 17.07 | 2.12 ng/ul | 599789 | Phenanthrene-d10 | 17.25 |

| Hit# | of | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphtho[2,1-b]thiophene | 184 | C12H8S  | 000233-02-3 | 93   |
| 2    |    | Dibenzothiophene        | 184 | C12H8S  | 000132-65-0 | 93   |
| 3    |    | Dibenzothiophene        | 184 | C12H8S  | 000132-65-0 | 93   |
| 4    |    | Naphtho[1,2-b]thiophene | 184 | C12H8S  | 000234-41-3 | 91   |
| 5    |    | Dibenzothiophene        | 184 | C12H8S  | 000132-65-0 | 90   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM102517\  
Data File : BM012469.D  
Acq On : 26 Oct 2017 12:23  
Operator : SJ/JU  
Sample : I5756-07DL 5X  
Misc :  
ALS Vial : 32 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
B0CN1DL

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM102417.M  
Quant Title : SVOA CALIBRATION

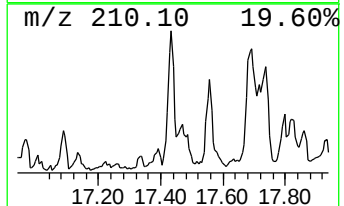
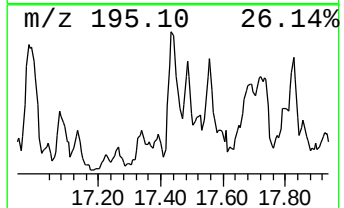
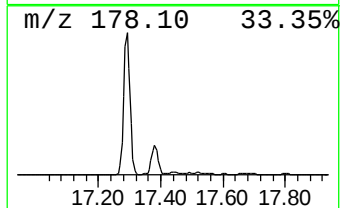
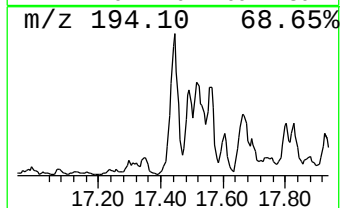
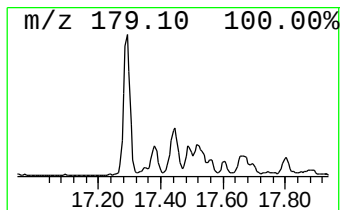
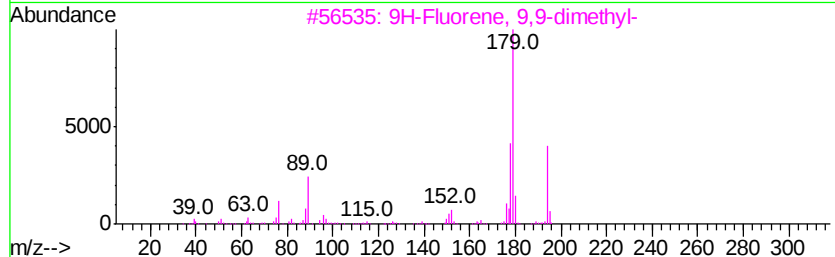
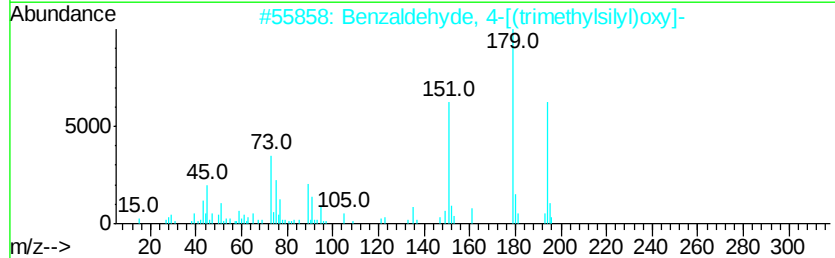
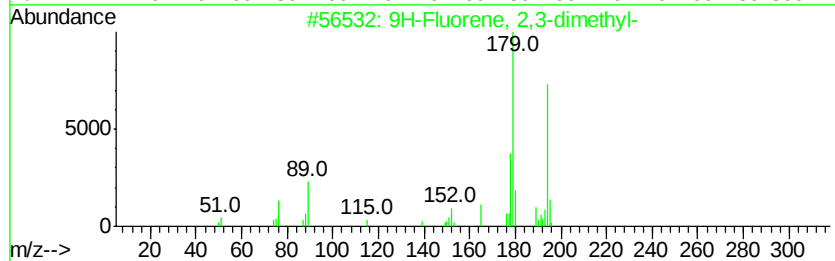
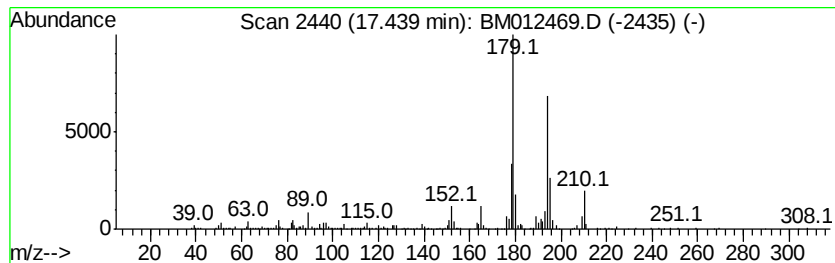
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 13 9H-Fluorene, 2,3-dimethyl- Concentration Rank 25

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 17.44 | 2.51 ng/ul | 710535 | Phenanthrene-d10 | 17.25 |

| Hit# | of | Tentative ID                           | MW  | MolForm    | CAS#        | Qual |
|------|----|----------------------------------------|-----|------------|-------------|------|
| 1    | 5  | 9H-Fluorene, 2,3-dimethyl-             | 194 | C15H14     | 004612-63-9 | 91   |
| 2    |    | Benzaldehyde, 4-[(trimethylsilyl)oxy]- | 194 | C10H14O2Si | 001012-12-0 | 64   |
| 3    |    | 9H-Fluorene, 9,9-dimethyl-             | 194 | C15H14     | 004569-45-3 | 64   |
| 4    |    | Benzo[h]quinoline                      | 179 | C13H9N     | 000230-27-3 | 55   |
| 5    |    | Silane, trimethyl(3,5-xilyloxy)-       | 194 | C11H18OSi  | 017994-05-7 | 52   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM102517\  
Data File : BM012469.D  
Acq On : 26 Oct 2017 12:23  
Operator : SJ/JU  
Sample : I5756-07DL 5X  
Misc :  
ALS Vial : 32 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
B0CN1DL

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM102417.M  
Quant Title : SVOA CALIBRATION

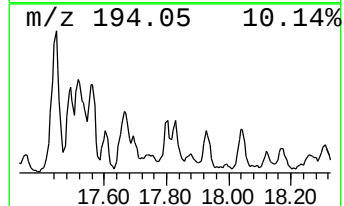
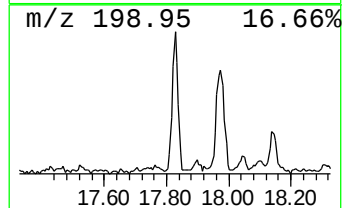
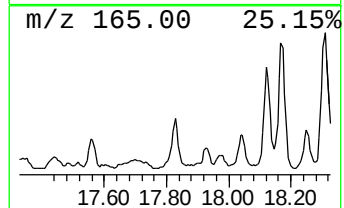
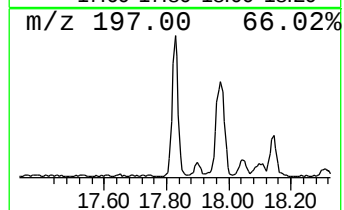
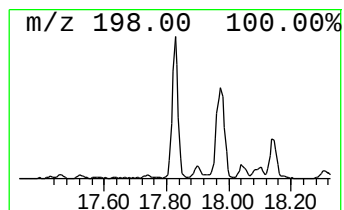
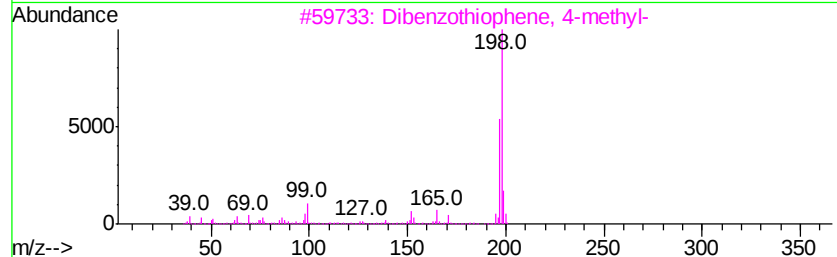
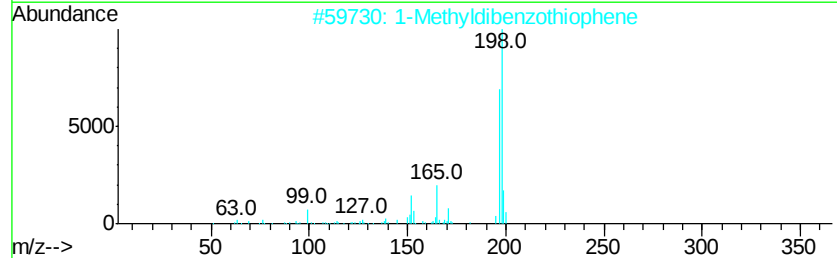
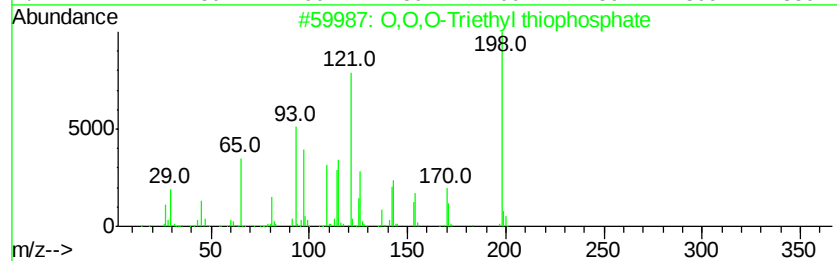
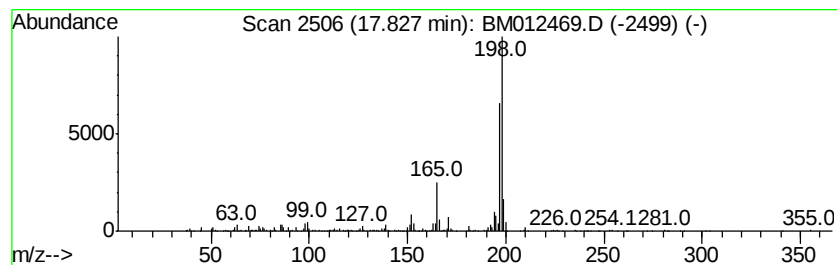
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 14 0,0,0-Triethyl thiophosphate Concentration Rank 23

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 17.83 | 2.75 ng/ul | 778090 | Phenanthrene-d10 | 17.25 |

| Hit# | of | Tentative ID                 | MW  | MolForm   | CAS#        | Qual |
|------|----|------------------------------|-----|-----------|-------------|------|
| 1    | 5  | 0,0,0-Triethyl thiophosphate | 198 | C6H15O3PS | 000126-68-1 | 86   |
| 2    |    | 1-Methyldibenzothiophene     | 198 | C13H10S   | 031317-07-4 | 83   |
| 3    |    | Dibenzothiophene, 4-methyl-  | 198 | C13H10S   | 007372-88-5 | 81   |
| 4    |    | Dibenzothiophene, 3-methyl-  | 198 | C13H10S   | 016587-52-3 | 81   |
| 5    |    | Thioxanthene                 | 198 | C13H10S   | 000261-31-4 | 64   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM102517\  
Data File : BM012469.D  
Acq On : 26 Oct 2017 12:23  
Operator : SJ/JU  
Sample : I5756-07DL 5X  
Misc :  
ALS Vial : 32 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
B0CN1DL

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM102417.M  
Quant Title : SVOA CALIBRATION

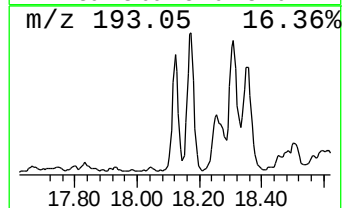
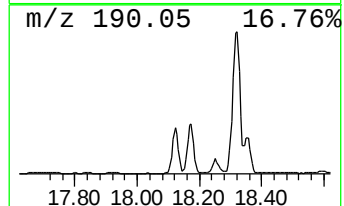
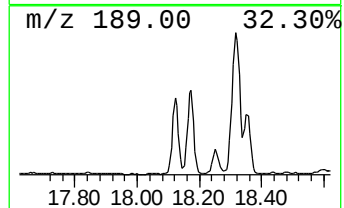
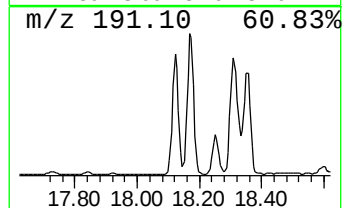
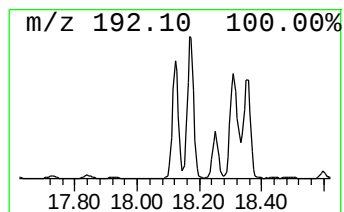
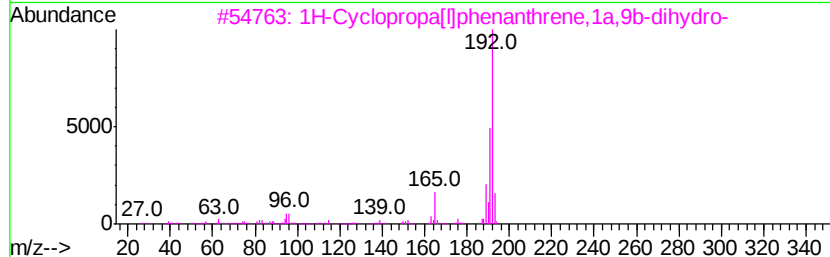
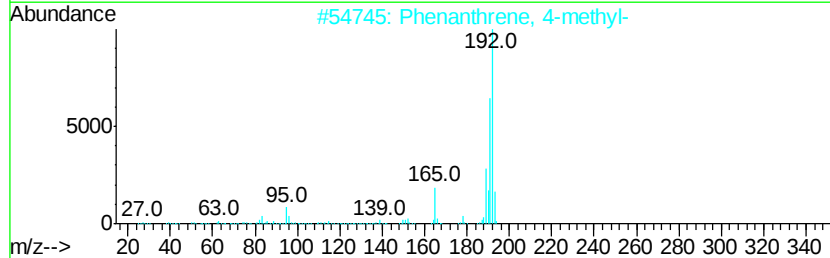
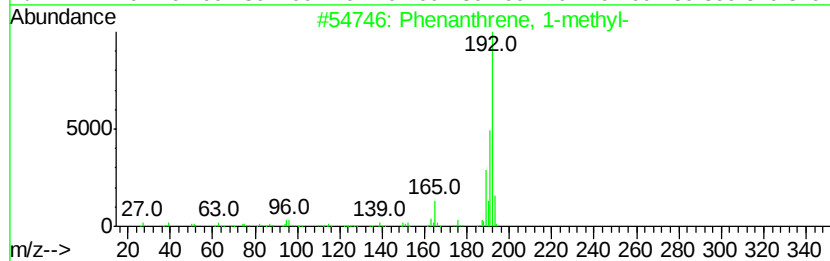
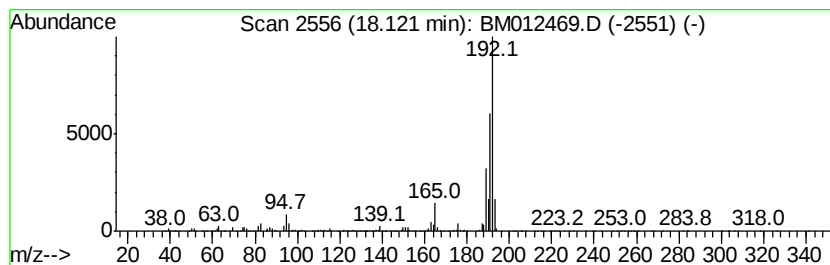
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 15 Phenanthrene, 1-methyl- Concentration Rank 4

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 18.12 | 8.76 ng/ul | 2476170 | Phenanthrene-d10 | 17.25 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Phenanthrene, 1-methyl-             | 192 | C15H12  | 000832-69-9 | 97   |
| 2    |    | Phenanthrene, 4-methyl-             | 192 | C15H12  | 000832-64-4 | 96   |
| 3    |    | 1H-Cyclopropa[1]phenanthrene,1a,... | 192 | C15H12  | 000949-41-7 | 95   |
| 4    |    | Phenanthrene, 2-methyl-             | 192 | C15H12  | 002531-84-2 | 95   |
| 5    |    | Phenanthrene, 1-methyl-             | 192 | C15H12  | 000832-69-9 | 95   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM102517\  
Data File : BM012469.D  
Acq On : 26 Oct 2017 12:23  
Operator : SJ/JU  
Sample : I5756-07DL 5X  
Misc :  
ALS Vial : 32 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
B0CN1DL

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM102417.M  
Quant Title : SVOA CALIBRATION

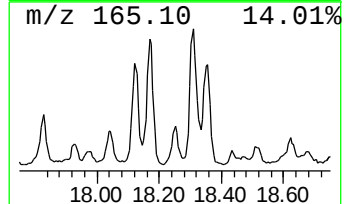
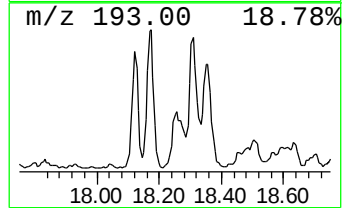
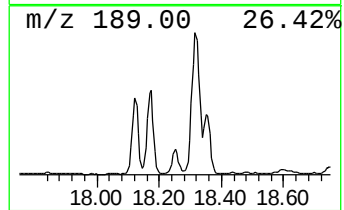
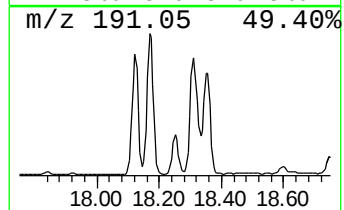
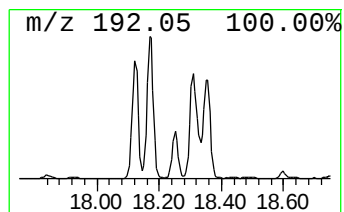
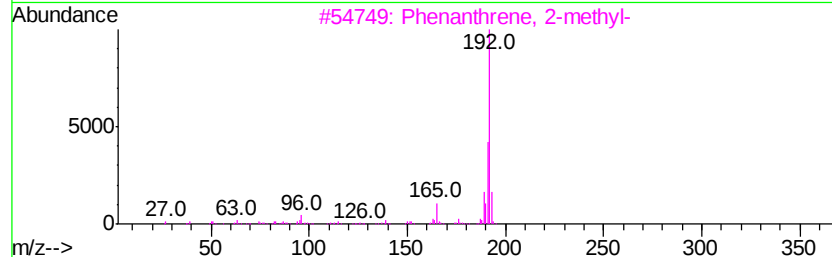
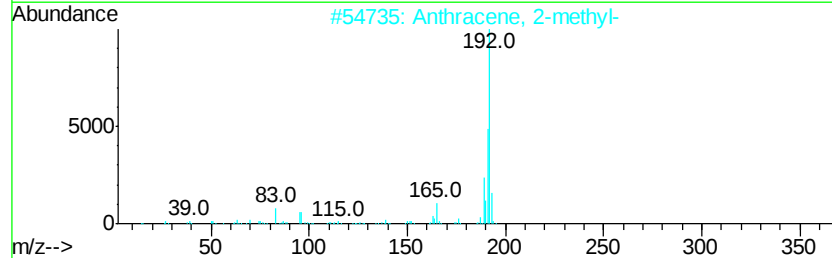
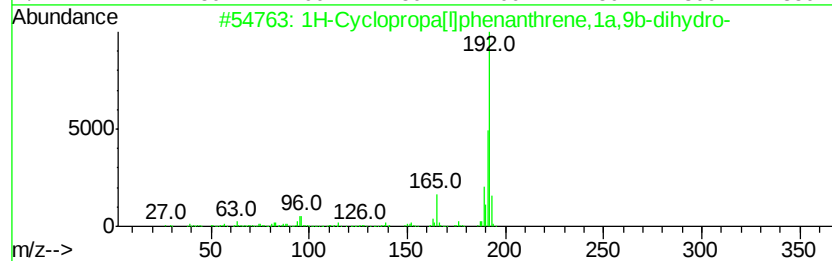
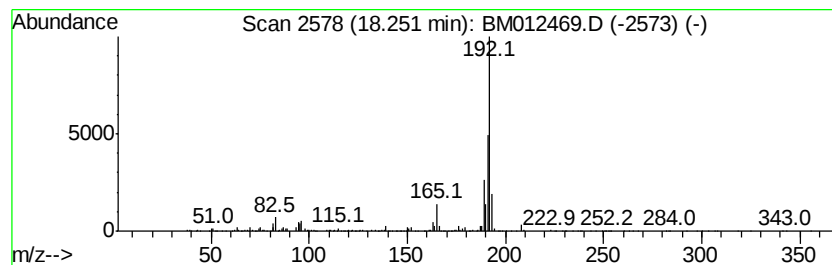
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 17 1H-Cyclopropa[l]phenanthren... Concentration Rank 13

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 18.25 | 3.53 ng/ul | 998622 | Phenanthrene-d10 | 17.25 |

| Hit# | of | 5 | Tentative ID                          | MW  | MolForm | CAS#        | Qual |
|------|----|---|---------------------------------------|-----|---------|-------------|------|
| 1    |    |   | 1H-Cyclopropa[l]phenanthrene, 1a, ... | 192 | C15H12  | 000949-41-7 | 98   |
| 2    |    |   | Anthracene, 2-methyl-                 | 192 | C15H12  | 000613-12-7 | 97   |
| 3    |    |   | Phenanthrene, 2-methyl-               | 192 | C15H12  | 002531-84-2 | 97   |
| 4    |    |   | Phenanthrene, 2-methyl-               | 192 | C15H12  | 002531-84-2 | 97   |
| 5    |    |   | Phenanthrene, 1-methyl-               | 192 | C15H12  | 000832-69-9 | 97   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM102517\  
Data File : BM012469.D  
Acq On : 26 Oct 2017 12:23  
Operator : SJ/JU  
Sample : I5756-07DL 5X  
Misc :  
ALS Vial : 32 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
B0CN1DL

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM102417.M  
Quant Title : SVOA CALIBRATION

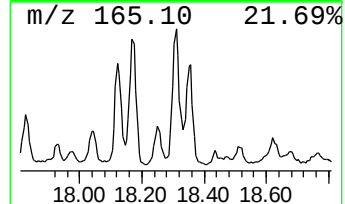
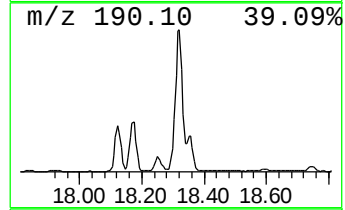
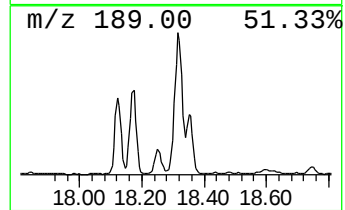
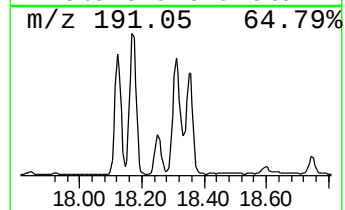
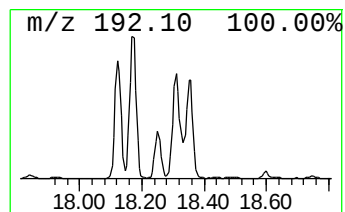
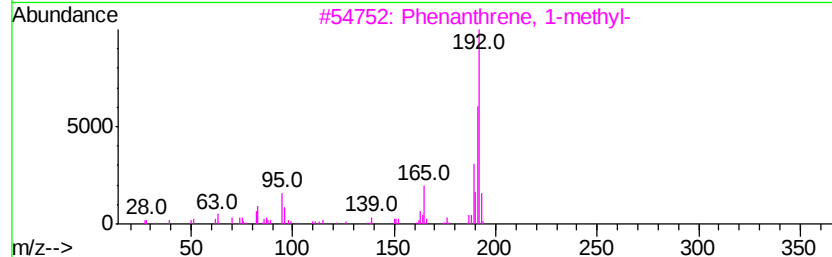
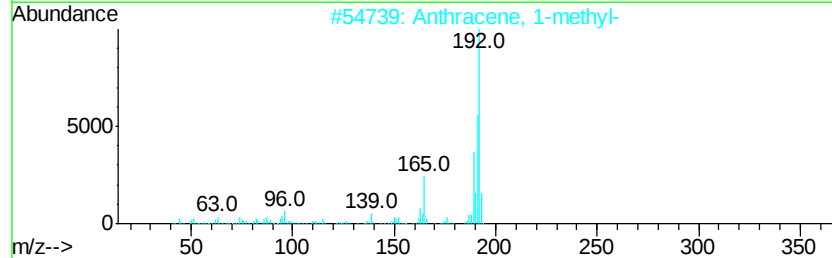
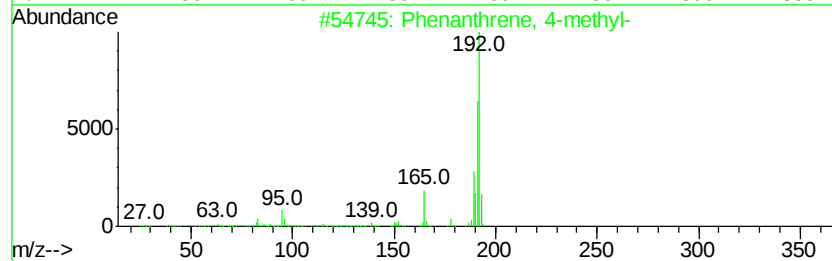
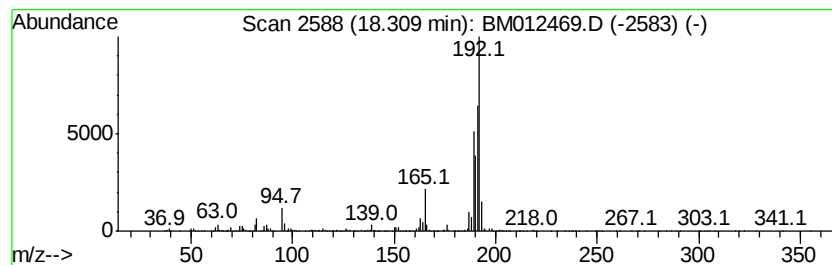
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 18 Phenanthrene, 4-methyl- Concentration Rank 1

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 18.31 | 13.14 ng/ul | 3715410 | Phenanthrene-d10 | 17.25 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Phenanthrene, 4-methyl-     | 192 | C15H12  | 000832-64-4 | 92   |
| 2    |    | Anthracene, 1-methyl-       | 192 | C15H12  | 000610-48-0 | 91   |
| 3    |    | Phenanthrene, 1-methyl-     | 192 | C15H12  | 000832-69-9 | 91   |
| 4    |    | Phenanthrene, 1-methyl-     | 192 | C15H12  | 000832-69-9 | 90   |
| 5    |    | Naphtho[2,3-b]norbornadiene | 192 | C15H12  | 107426-38-0 | 83   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM102517\  
Data File : BM012469.D  
Acq On : 26 Oct 2017 12:23  
Operator : SJ/JU  
Sample : I5756-07DL 5X  
Misc :  
ALS Vial : 32 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
B0CN1DL

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM102417.M  
Quant Title : SVOA CALIBRATION

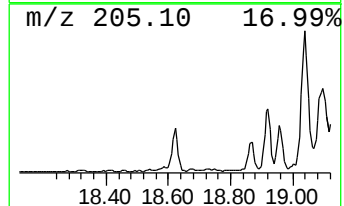
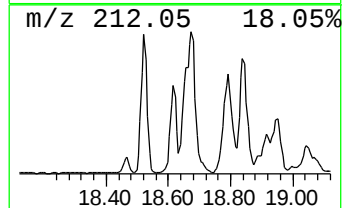
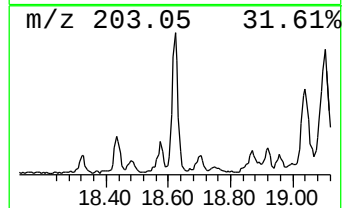
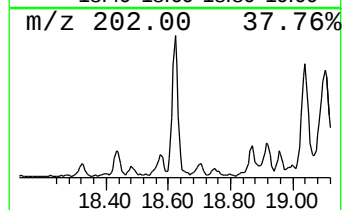
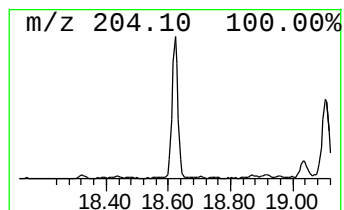
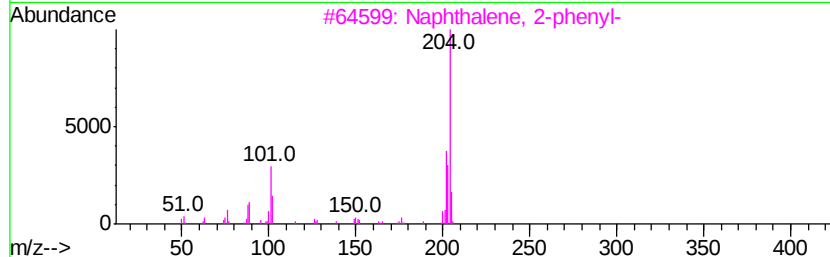
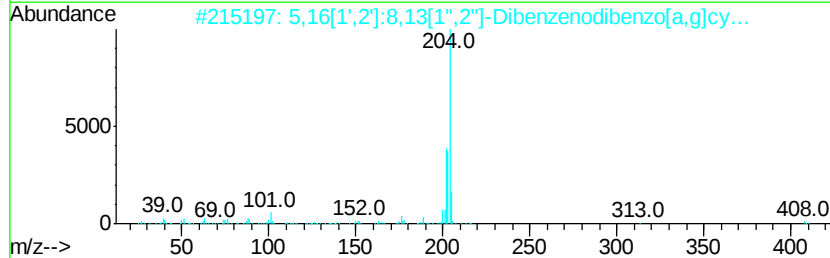
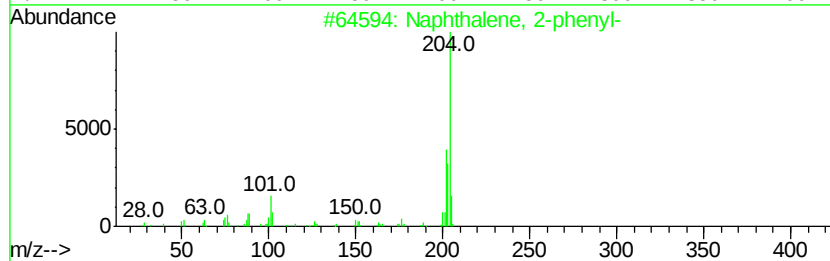
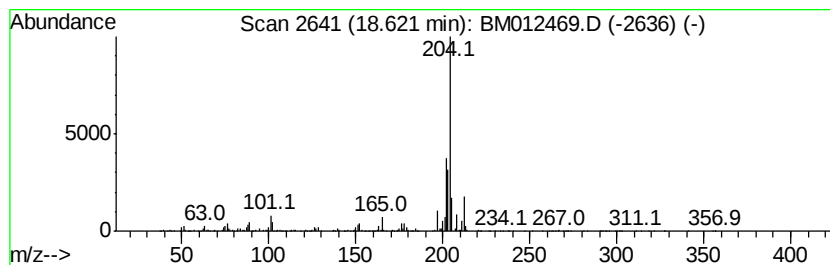
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 20 Naphthalene, 2-phenyl- Concentration Rank 18

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 18.62 | 3.17 ng/ul | 895577 | Phenanthrene-d10 | 17.25 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 2-phenyl-              | 204 | C16H12  | 000612-94-2 | 83   |
| 2    |    | 5,16[1',2']:8,13[1'',2'']-Dibenz... | 408 | C32H24  | 005672-97-9 | 72   |
| 3    |    | Naphthalene, 2-phenyl-              | 204 | C16H12  | 000612-94-2 | 64   |
| 4    |    | Naphthalene, 2-phenyl-              | 204 | C16H12  | 000612-94-2 | 58   |
| 5    |    | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 | C16H12  | 006572-60-7 | 58   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM102517\  
Data File : BM012469.D  
Acq On : 26 Oct 2017 12:23  
Operator : SJ/JU  
Sample : I5756-07DL 5X  
Misc :  
ALS Vial : 32 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
B0CN1DL

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM102417.M  
Quant Title : SVOA CALIBRATION

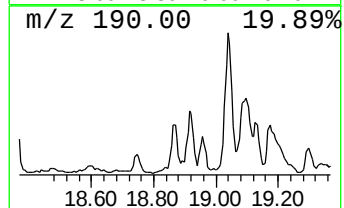
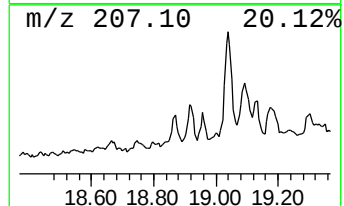
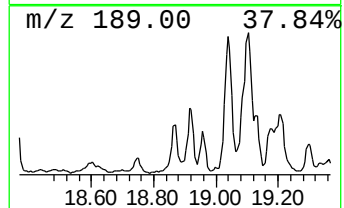
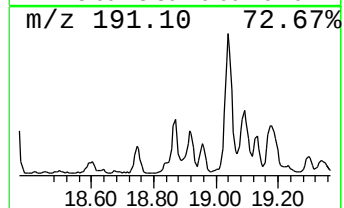
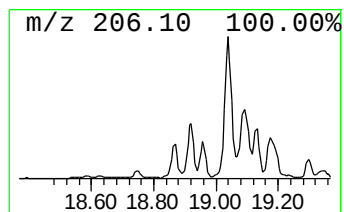
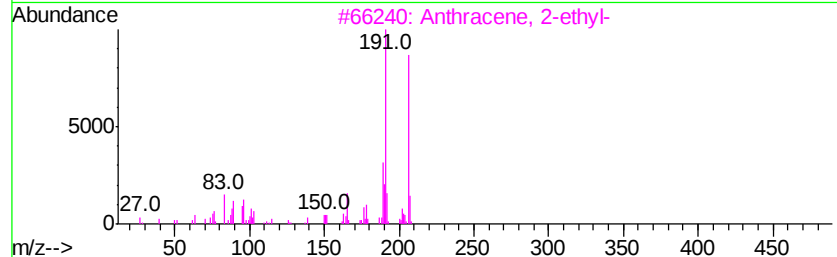
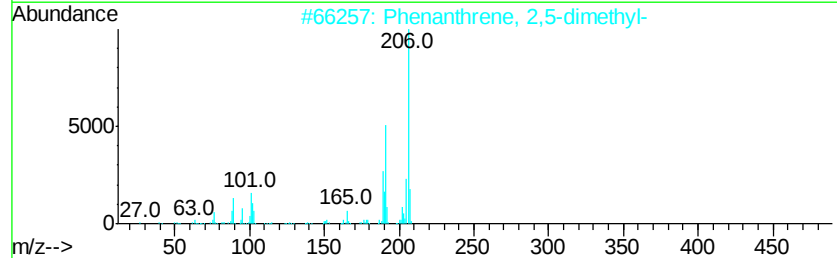
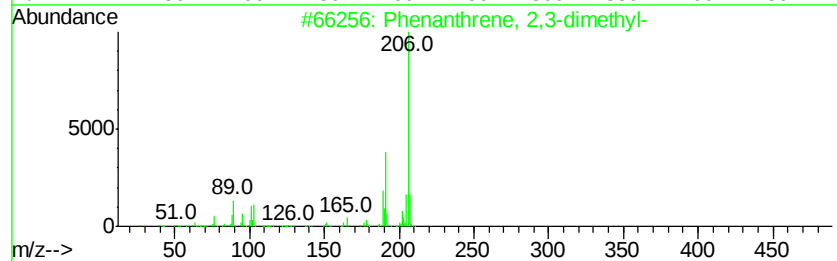
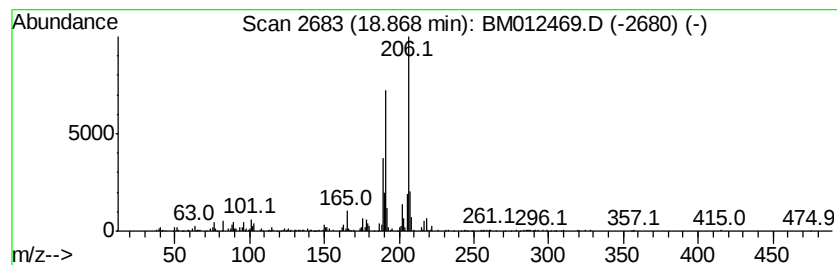
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 21 Phenanthrene, 2,3-dimethyl- Concentration Rank 22

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 18.87 | 2.78 ng/ul | 785448 | Phenanthrene-d10 | 17.25 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Phenanthrene, 2,3-dimethyl- | 206 | C16H14  | 003674-65-5 | 94   |
| 2    |    | Phenanthrene, 2,5-dimethyl- | 206 | C16H14  | 003674-66-6 | 93   |
| 3    |    | Anthracene, 2-ethyl-        | 206 | C16H14  | 052251-71-5 | 91   |
| 4    |    | Phenanthrene, 3,6-dimethyl- | 206 | C16H14  | 001576-67-6 | 90   |
| 5    |    | Phenanthrene, 4,5-dimethyl- | 206 | C16H14  | 003674-69-9 | 90   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM102517\  
Data File : BM012469.D  
Acq On : 26 Oct 2017 12:23  
Operator : SJ/JU  
Sample : I5756-07DL 5X  
Misc :  
ALS Vial : 32 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
B0CN1DL

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM102417.M  
Quant Title : SVOA CALIBRATION

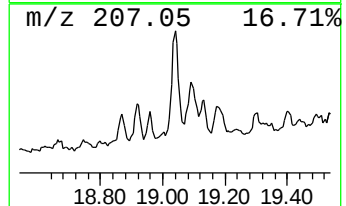
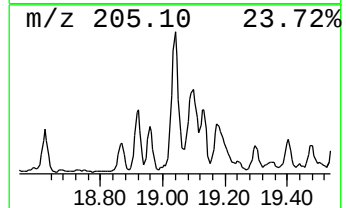
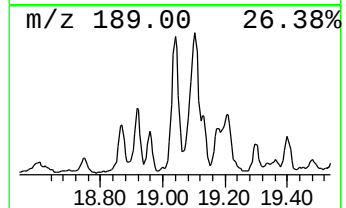
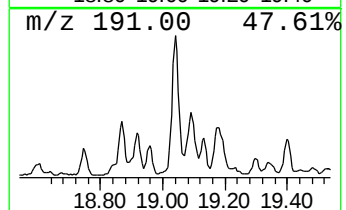
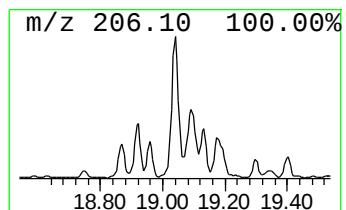
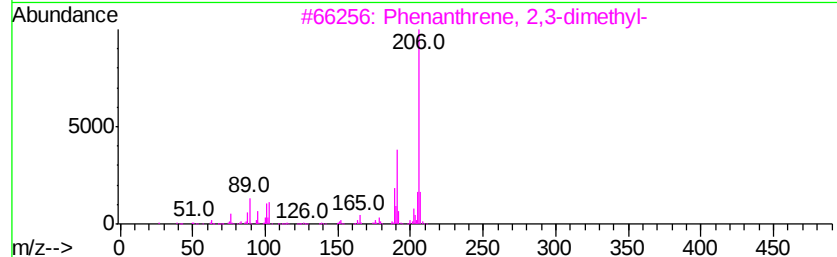
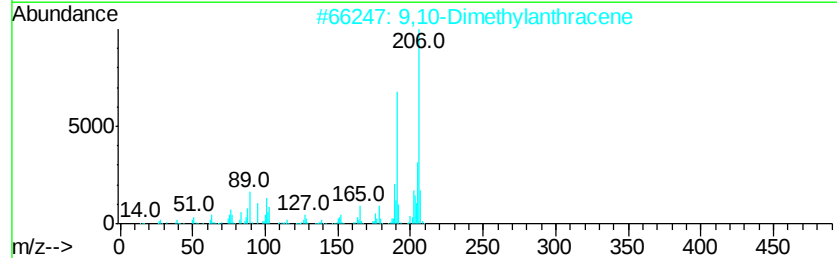
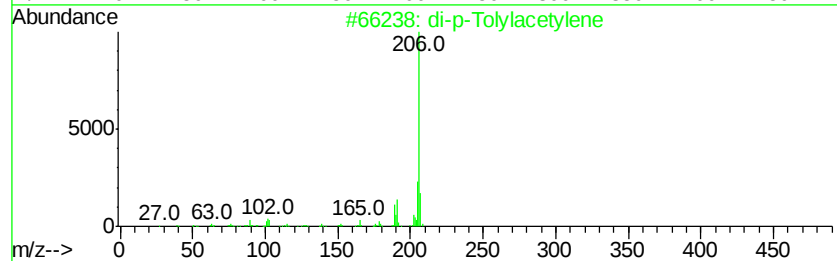
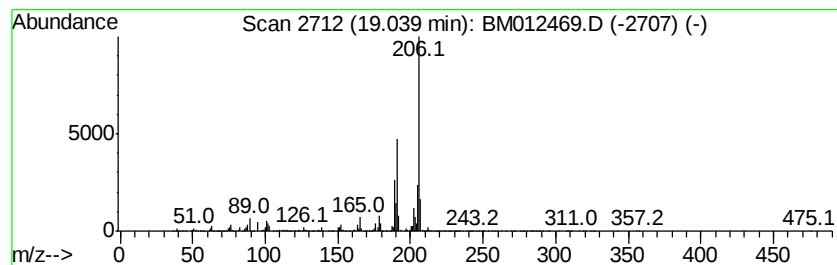
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 24 di-p-Tolylacetylene Concentration Rank 3

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 19.04 | 9.75 ng/ul | 2757000 | Phenanthrene-d10 | 17.25 |

| Hit# | of | Tentative ID                      | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------------|-----|---------|-------------|------|
| 1    | 5  | di-p-Tolylacetylene               | 206 | C16H14  | 002789-88-0 | 91   |
| 2    |    | 9,10-Dimethylantracene            | 206 | C16H14  | 000781-43-1 | 91   |
| 3    |    | Phenanthrene, 2,3-dimethyl-       | 206 | C16H14  | 003674-65-5 | 90   |
| 4    |    | Phenanthrene, 3,6-dimethyl-       | 206 | C16H14  | 001576-67-6 | 87   |
| 5    |    | 1,3-Diphenyl-3-methylcyclopropene | 206 | C16H14  | 086544-79-8 | 81   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM102517\  
Data File : BM012469.D  
Acq On : 26 Oct 2017 12:23  
Operator : SJ/JU  
Sample : I5756-07DL 5X  
Misc :  
ALS Vial : 32 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
B0CN1DL

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM102417.M  
Quant Title : SVOA CALIBRATION

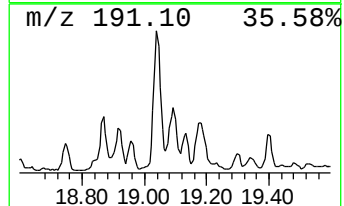
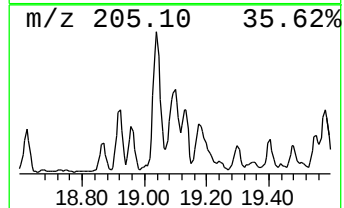
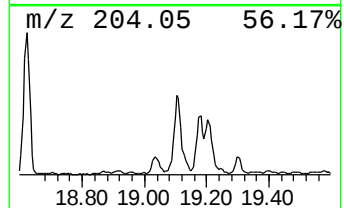
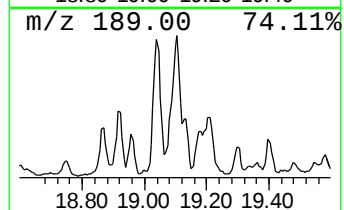
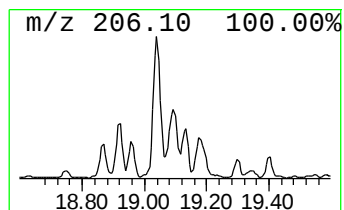
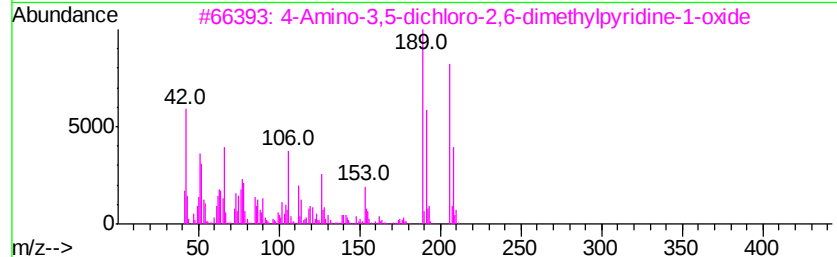
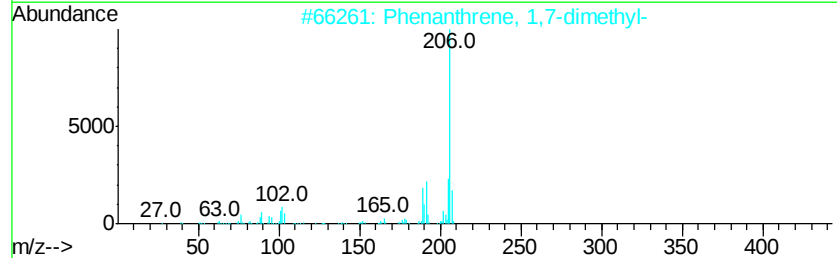
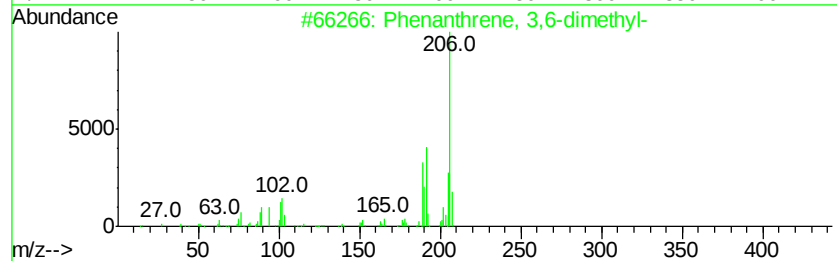
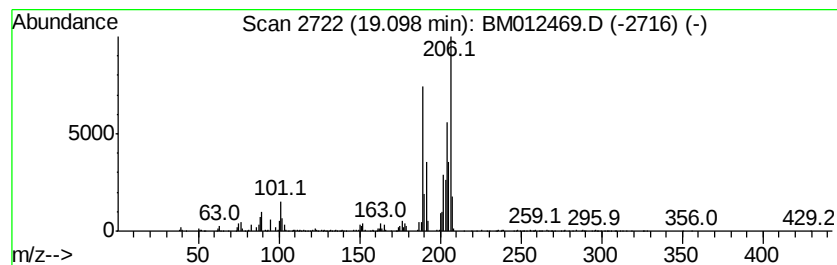
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 25 Phenanthrene, 3,6-dimethyl- Concentration Rank 5

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 19.10 | 7.30 ng/ul | 2064020 | Phenanthrene-d10 | 17.25 |

| Hit# | of | Tentative ID                                      | MW  | MolForm    | CAS#         | Qual |
|------|----|---------------------------------------------------|-----|------------|--------------|------|
| 1    | 5  | Phenanthrene, 3,6-dimethyl-                       | 206 | C16H14     | 001576-67-6  | 70   |
| 2    |    | Phenanthrene, 1,7-dimethyl-                       | 206 | C16H14     | 000483-87-4  | 55   |
| 3    |    | 4-Amino-3,5-dichloro-2,6-dimethylpyridine-1-oxide | 206 | C7H8Cl2N2O | 1000227-19-9 | 43   |
| 4    |    | 5H-Dibenzo[a,d]cycloheptene, 5-methyl-            | 204 | C16H12     | 002975-79-3  | 42   |
| 5    |    | Phenanthrene, 2,3-dimethyl-                       | 206 | C16H14     | 003674-65-5  | 42   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM102517\  
Data File : BM012469.D  
Acq On : 26 Oct 2017 12:23  
Operator : SJ/JU  
Sample : I5756-07DL 5X  
Misc :  
ALS Vial : 32 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
B0CN1DL

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM102417.M  
Quant Title : SVOA CALIBRATION

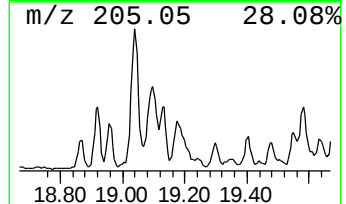
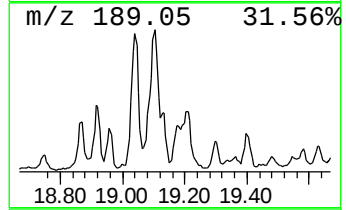
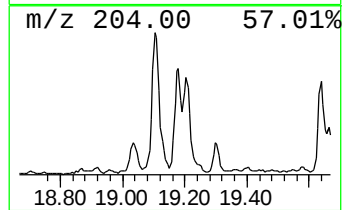
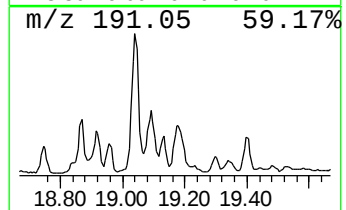
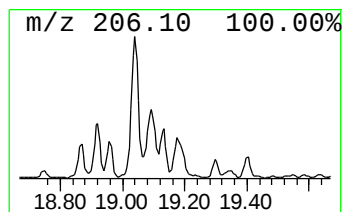
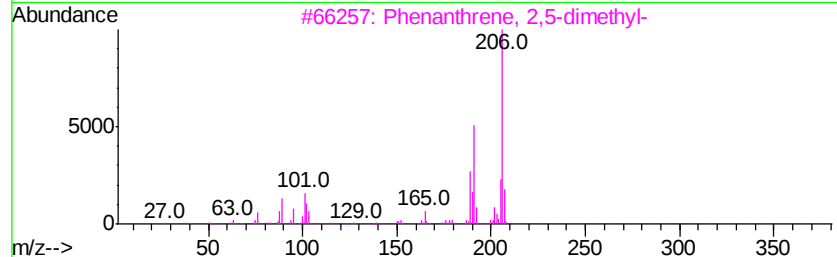
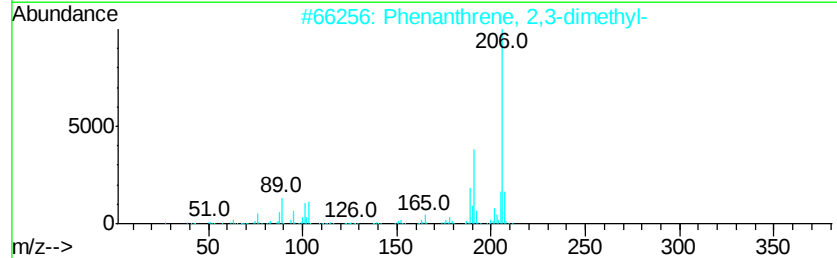
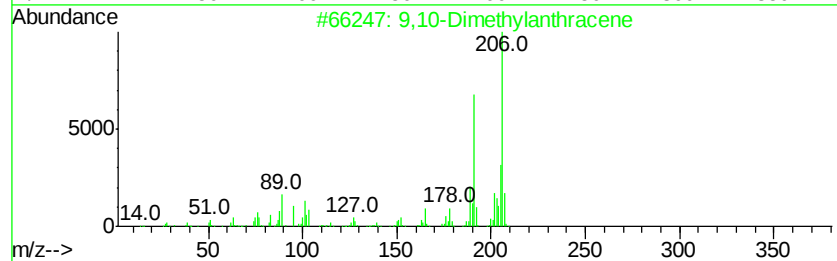
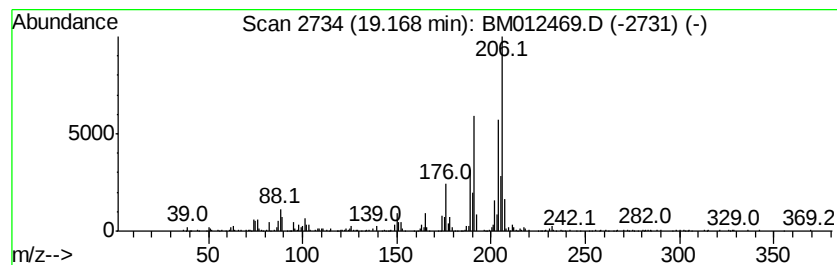
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 26 9,10-Dimethylantracene Concentration Rank 6

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 19.17 | 6.98 ng/ul | 1974290 | Phenanthrene-d10 | 17.25 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | 9,10-Dimethylantracene      | 206 | C16H14  | 000781-43-1 | 93   |
| 2    |    | Phenanthrene, 2,3-dimethyl- | 206 | C16H14  | 003674-65-5 | 83   |
| 3    |    | Phenanthrene, 2,5-dimethyl- | 206 | C16H14  | 003674-66-6 | 70   |
| 4    |    | Phenanthrene, 3,6-dimethyl- | 206 | C16H14  | 001576-67-6 | 64   |
| 5    |    | Anthracene, 2-ethyl-        | 206 | C16H14  | 052251-71-5 | 60   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM102517\  
Data File : BM012469.D  
Acq On : 26 Oct 2017 12:23  
Operator : SJ/JU  
Sample : I5756-07DL 5X  
Misc :  
ALS Vial : 32 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
B0CN1DL

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM102417.M  
Quant Title : SVOA CALIBRATION

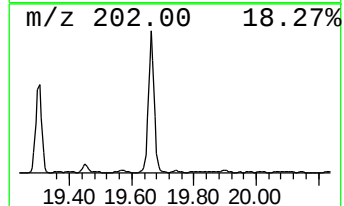
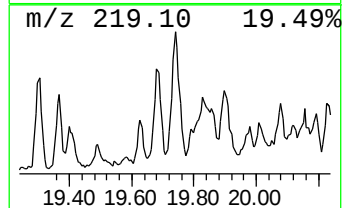
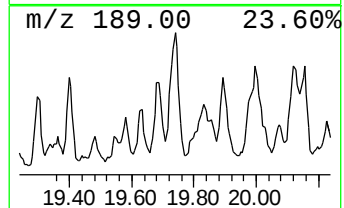
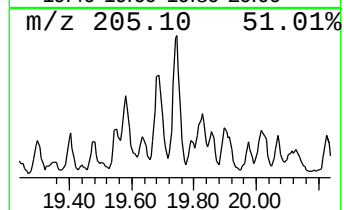
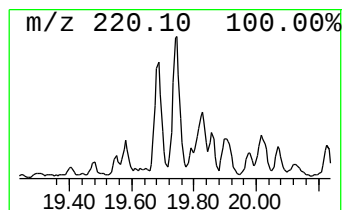
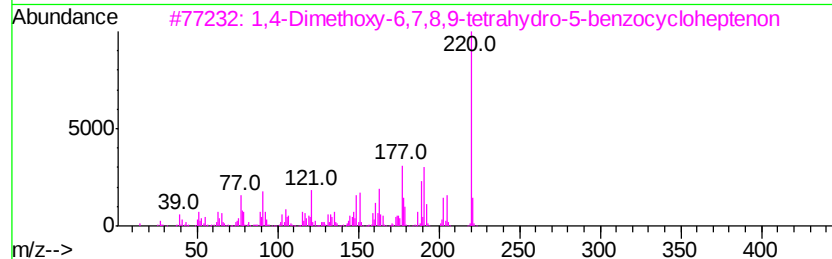
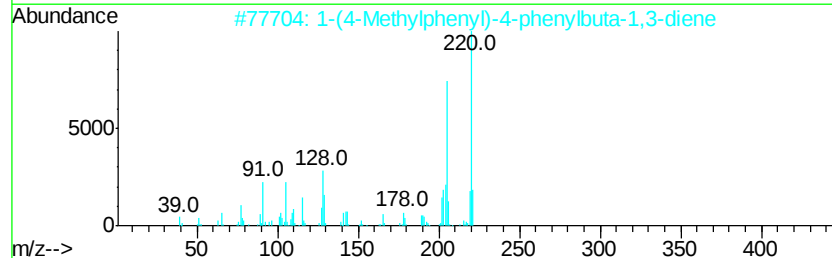
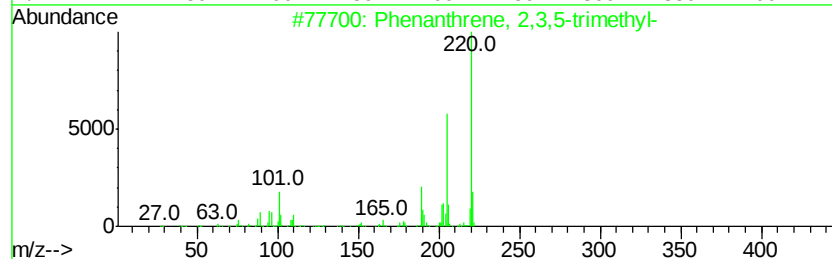
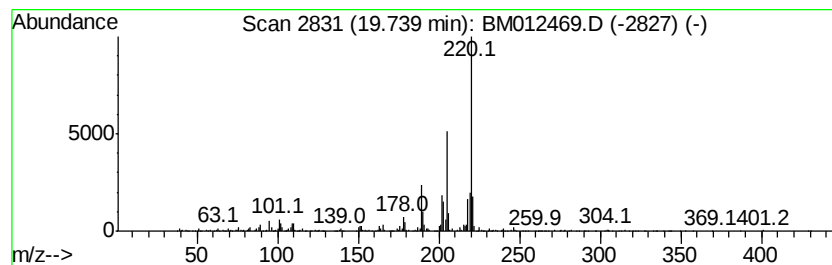
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 27 Phenanthrene, 2,3,5-trimethyl- Concentration Rank 34

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 19.74 | 2.23 ng/ul | 1054080 | Chrysene-d12     | 21.42 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Phenanthrene, 2,3,5-trimethyl-      | 220 | C17H16   | 003674-73-5 | 80   |
| 2    |    | 1-(4-Methylphenyl)-4-phenylbuta-... | 220 | C17H16   | 037985-11-8 | 72   |
| 3    |    | 1,4-Dimethoxy-6,7,8,9-tetrahydro... | 220 | C13H16O3 | 079381-09-2 | 47   |
| 4    |    | 3,5-Cyclohexadiene-1,2-dione, 3,... | 220 | C14H20O2 | 003383-21-9 | 47   |
| 5    |    | 9-Ethyl-10-methylantracene          | 220 | C17H16   | 019713-49-6 | 43   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM102517\  
Data File : BM012469.D  
Acq On : 26 Oct 2017 12:23  
Operator : SJ/JU  
Sample : I5756-07DL 5X  
Misc :  
ALS Vial : 32 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
B0CN1DL

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM102417.M  
Quant Title : SVOA CALIBRATION

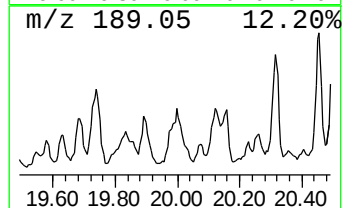
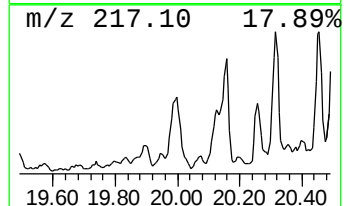
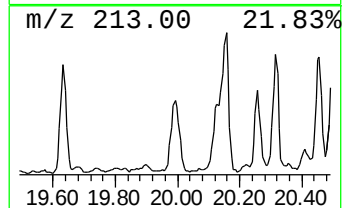
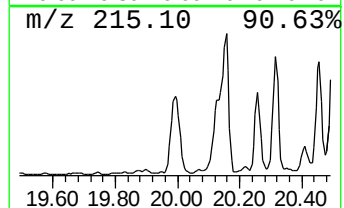
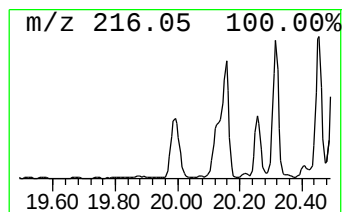
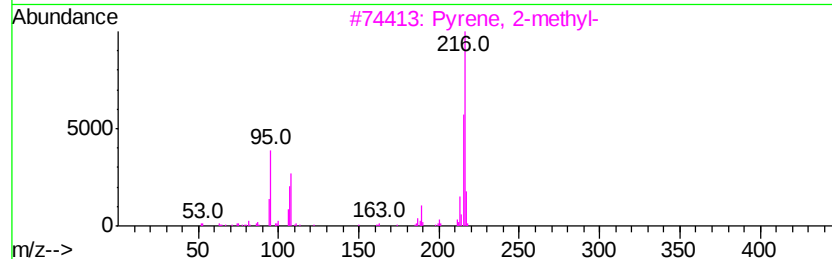
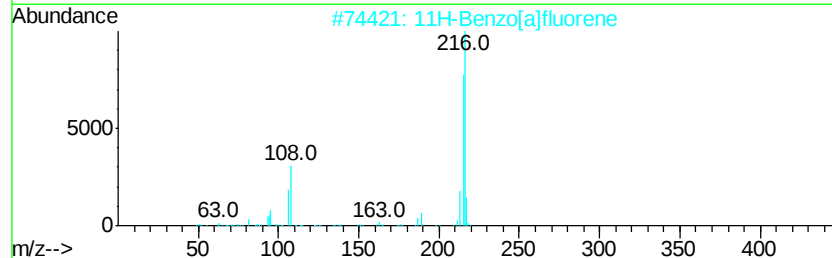
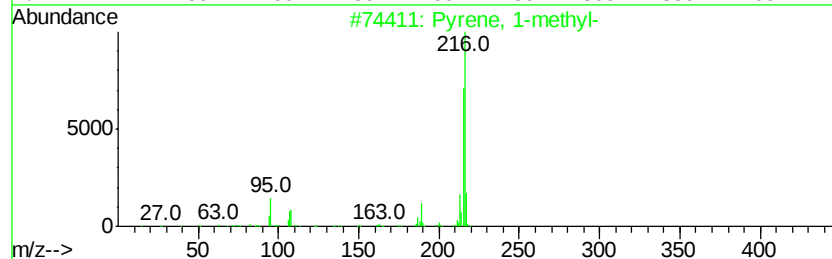
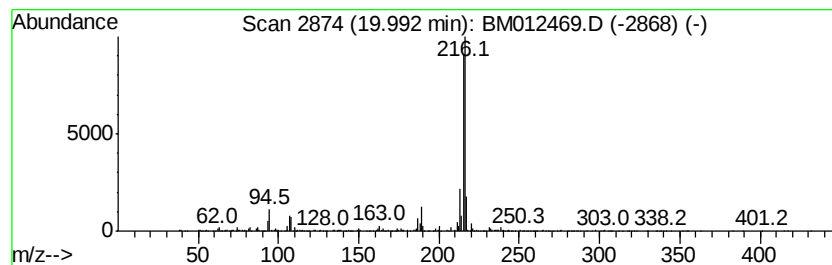
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 28 Pyrene, 1-methyl- Concentration Rank 9

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 19.99 | 4.44 ng/ul | 2101380 | Chrysene-d12     | 21.42 |

| Hit# | of | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1    | 5  | Pyrene, 1-methyl-       | 216 | C17H12  | 002381-21-7 | 94   |
| 2    |    | 11H-Benzo[a]fluorene    | 216 | C17H12  | 000238-84-6 | 93   |
| 3    |    | Pyrene, 2-methyl-       | 216 | C17H12  | 003442-78-2 | 92   |
| 4    |    | Fluoranthene, 2-methyl- | 216 | C17H12  | 033543-31-6 | 90   |
| 5    |    | Fluoranthene, 2-methyl- | 216 | C17H12  | 033543-31-6 | 89   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM102517\  
Data File : BM012469.D  
Acq On : 26 Oct 2017 12:23  
Operator : SJ/JU  
Sample : I5756-07DL 5X  
Misc :  
ALS Vial : 32 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
B0CN1DL

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM102417.M  
Quant Title : SVOA CALIBRATION

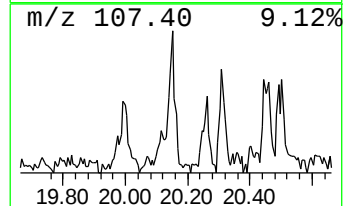
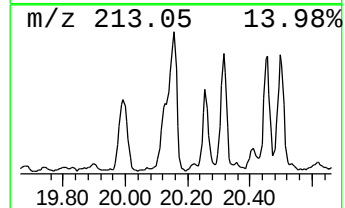
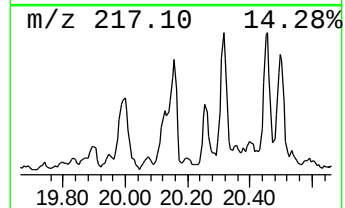
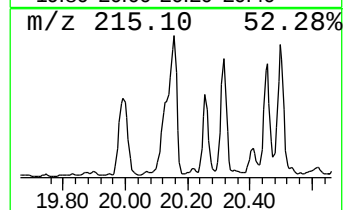
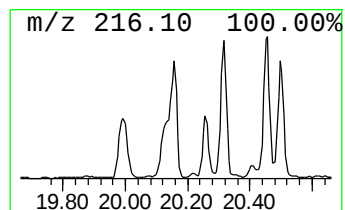
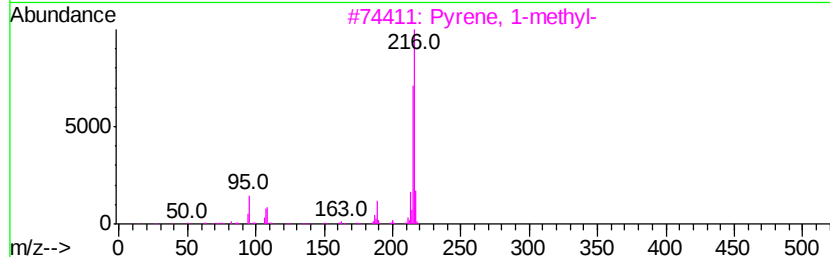
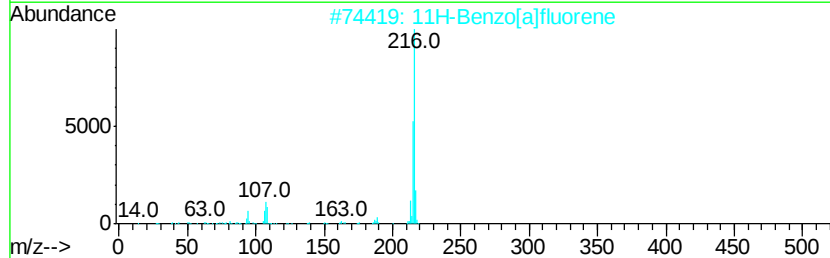
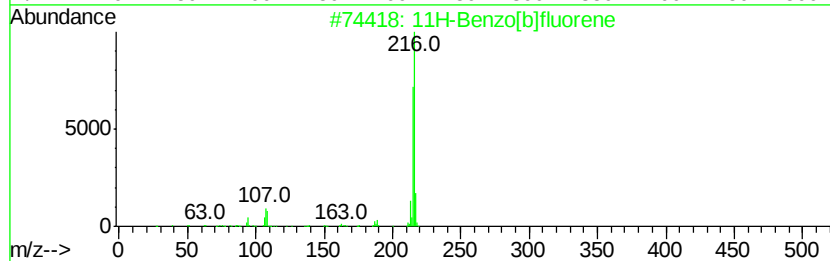
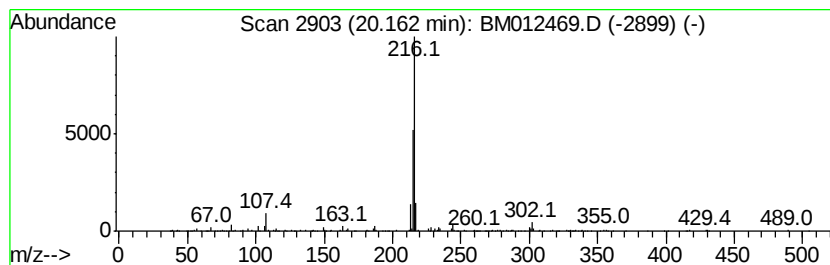
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 30 11H-Benzo[b]fluorene Concentration Rank 17

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 20.16 | 3.22 ng/ul | 1523020 | Chrysene-d12     | 21.42 |

| Hit# | of | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1    | 5  | 11H-Benzo[b]fluorene    | 216 | C17H12  | 000243-17-4 | 96   |
| 2    |    | 11H-Benzo[a]fluorene    | 216 | C17H12  | 000238-84-6 | 93   |
| 3    |    | Pvrene, 1-methyl-       | 216 | C17H12  | 002381-21-7 | 91   |
| 4    |    | Fluoranthene, 2-methyl- | 216 | C17H12  | 033543-31-6 | 87   |
| 5    |    | 11H-Benzo[b]fluorene    | 216 | C17H12  | 000243-17-4 | 83   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM102517\  
Data File : BM012469.D  
Acq On : 26 Oct 2017 12:23  
Operator : SJ/JU  
Sample : I5756-07DL 5X  
Misc :  
ALS Vial : 32 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
B0CN1DL

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM102417.M  
Quant Title : SVOA CALIBRATION

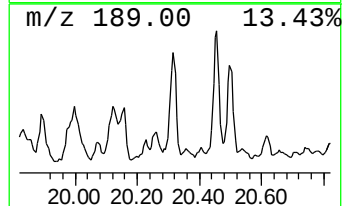
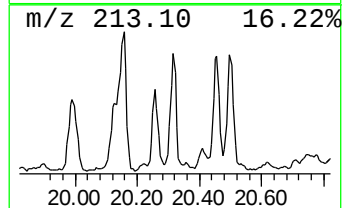
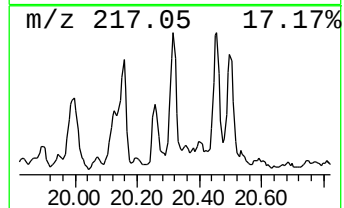
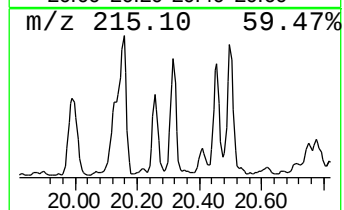
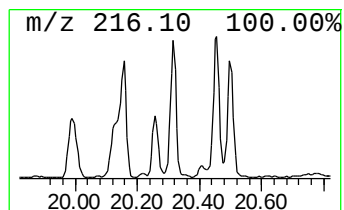
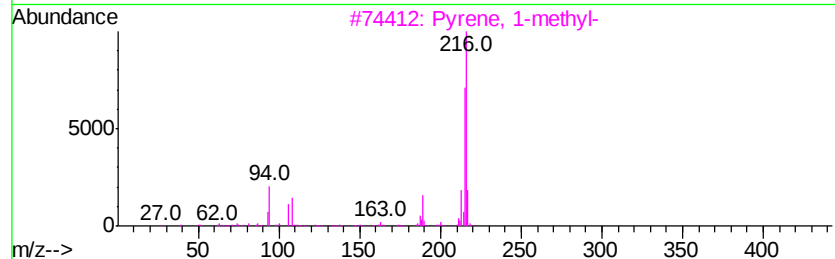
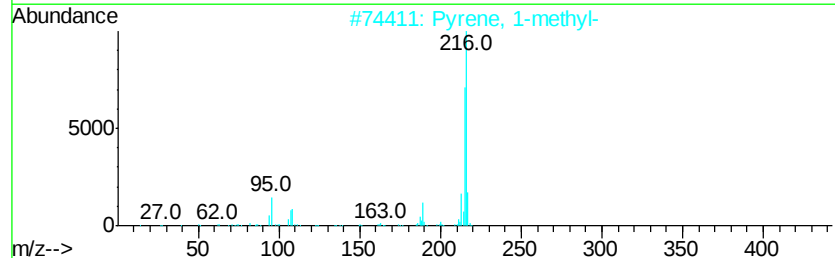
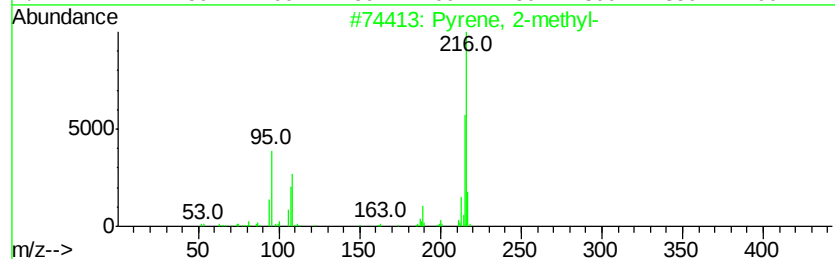
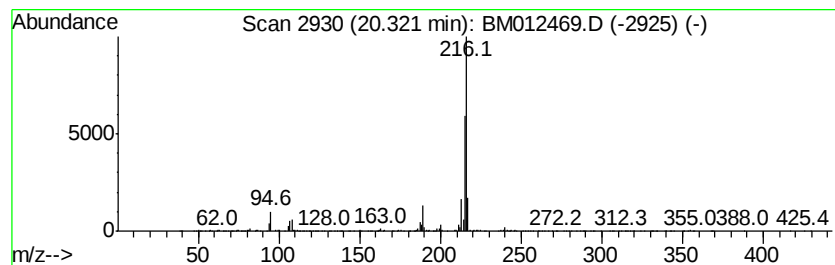
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 31 Pyrene, 2-methyl- Concentration Rank 12

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 20.32 | 3.63 ng/ul | 1715130 | Chrysene-d12     | 21.42 |

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



Data Path : Z:\HPCHEM1\BNA M\DATA\BM102517\  
Data File : BM012469.D  
Acq On : 26 Oct 2017 12:23  
Operator : SJ/JU  
Sample : I5756-07DL 5X  
Misc :  
ALS Vial : 32 Sample Multiplier: 1

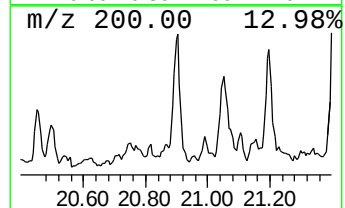
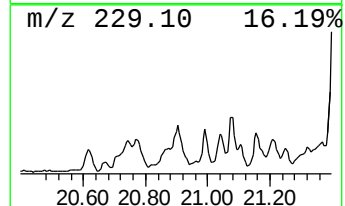
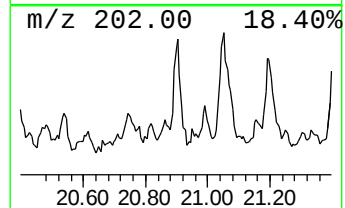
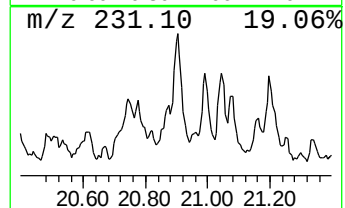
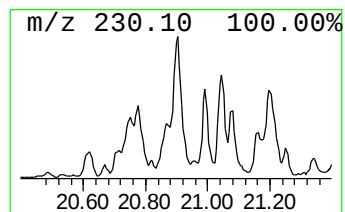
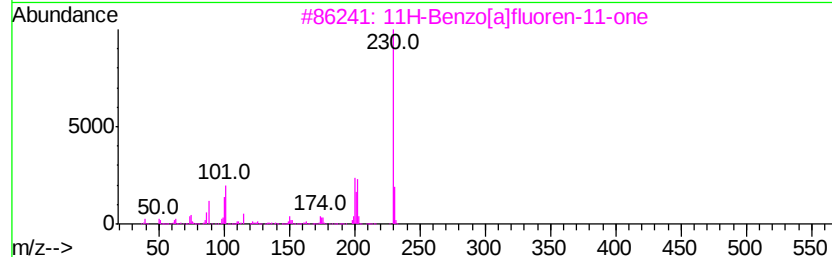
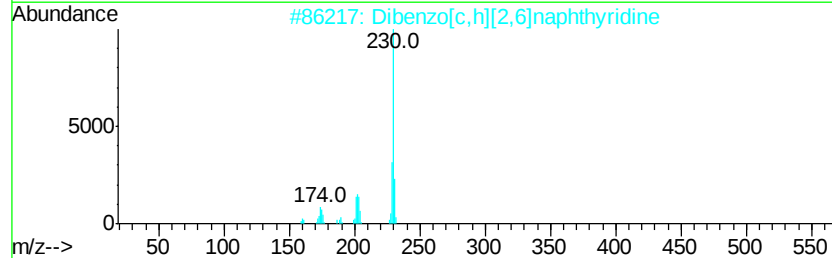
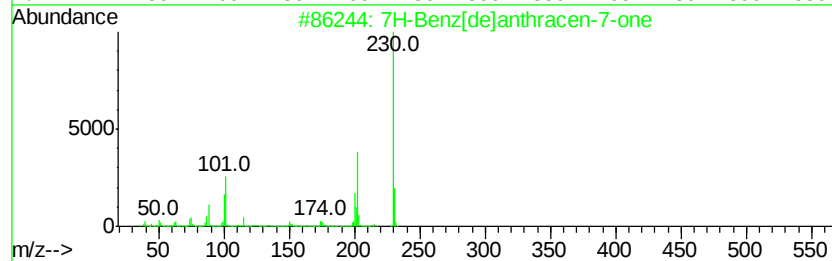
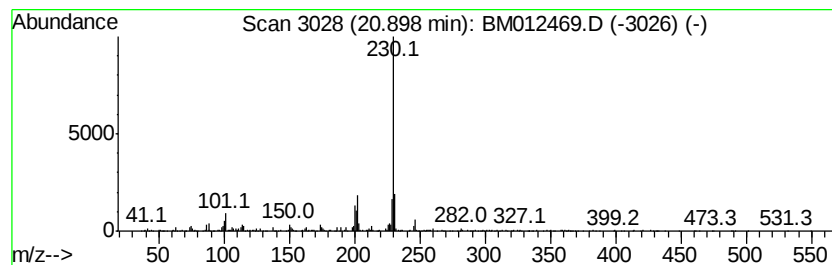
Instrument :  
BNA\_M  
ClientSampleId :  
B0CN1DL

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM102417.M  
Quant Title : SVOA CALIBRATION

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

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Peak Number 34 7H-Benz[de]anthracen-7-one Concentration Rank 32

| R.T.    | EstConc                        | Area         | Relative to ISTD | R.T.      |
|---------|--------------------------------|--------------|------------------|-----------|
| 20.90   | 2.27 ng/ul                     | 1075980      | Chrysene-d12     | 21.42     |
| Hit# of | 5                              | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | 7H-Benz[de]anthracen-7-one     | 230 C17H10O  | 000082-05-3      | 68        |
| 2       | Dibenzo[c,h][2,6]naphthylidene | 230 C16H10N2 | 000218-30-4      | 64        |
| 3       | 11H-Benzo[a]fluoren-11-one     | 230 C17H10O  | 000479-79-8      | 62        |
| 4       | m-Terphenyl                    | 230 C18H14   | 000092-06-8      | 62        |
| 5       | 7H-Benz[de]anthracen-7-one     | 230 C17H10O  | 000082-05-3      | 58        |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM102517\  
Data File : BM012469.D  
Acq On : 26 Oct 2017 12:23  
Operator : SJ/JU  
Sample : I5756-07DL 5X  
Misc :  
ALS Vial : 32 Sample Multiplier: 1

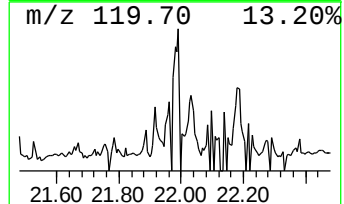
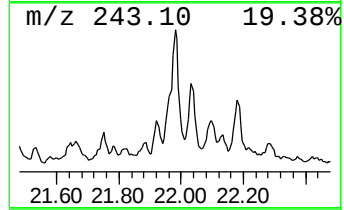
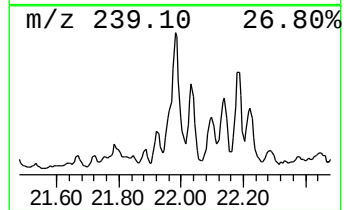
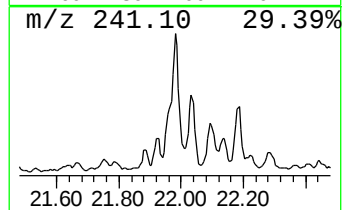
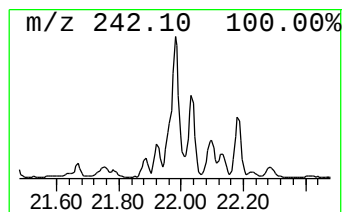
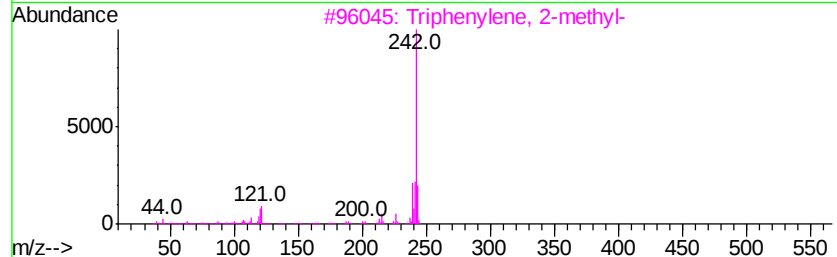
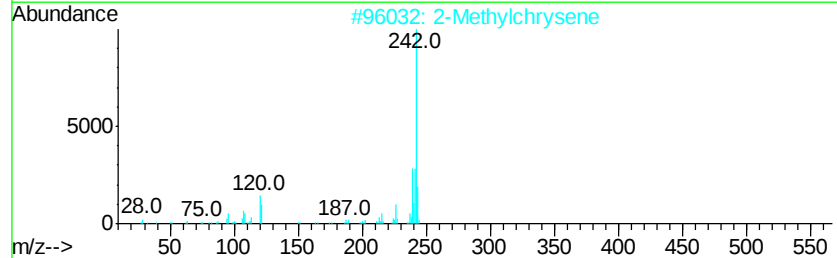
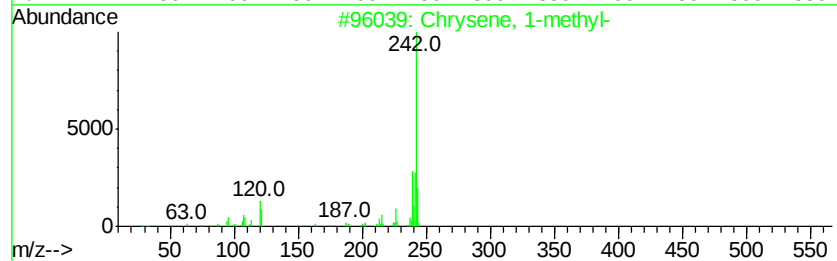
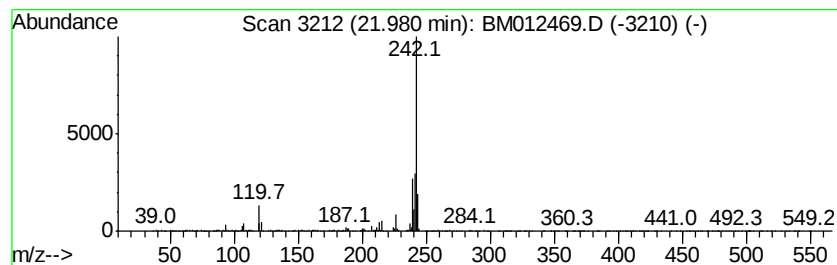
Instrument :  
BNA\_M  
ClientSampleId :  
B0CN1DL

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM102417.M  
Quant Title : SVOA CALIBRATION

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

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Peak Number 35 Chrysene, 1-methyl- Concentration Rank 24

| R.T.    | EstConc    | Area                                  | Relative to ISTD | R.T.           |
|---------|------------|---------------------------------------|------------------|----------------|
| 21.98   | 2.67 ng/ul | 1264930                               | Chrysene-d12     | 21.42          |
| Hit# of | 5          | Tentative ID                          | MW MolForm       | CAS# Qual      |
| 1       |            | Chrysene, 1-methyl-                   | 242 C19H14       | 003351-28-8 93 |
| 2       |            | 2-Methylchrysene                      | 242 C19H14       | 003351-32-4 93 |
| 3       |            | Triphenylene, 2-methyl-               | 242 C19H14       | 001705-84-6 93 |
| 4       |            | Benz[ <i>a</i> ]anthracene, 7-methyl- | 242 C19H14       | 002541-69-7 91 |
| 5       |            | Chrysene, 1-methyl-                   | 242 C19H14       | 003351-28-8 91 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM102517\  
Data File : BM012469.D  
Acq On : 26 Oct 2017 12:23  
Operator : SJ/JU  
Sample : I5756-07DL 5X  
Misc :  
ALS Vial : 32 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
B0CN1DL

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM102417.M  
Quant Title : SVOA CALIBRATION

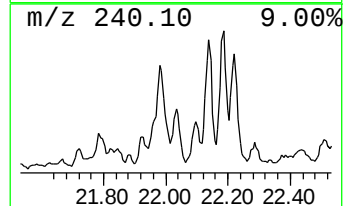
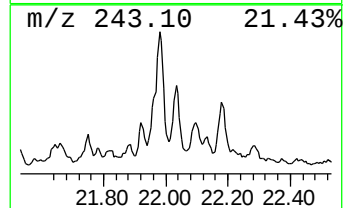
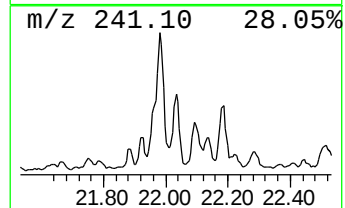
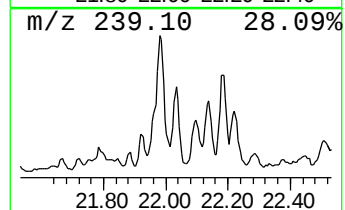
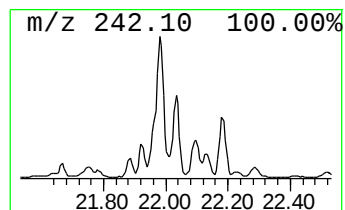
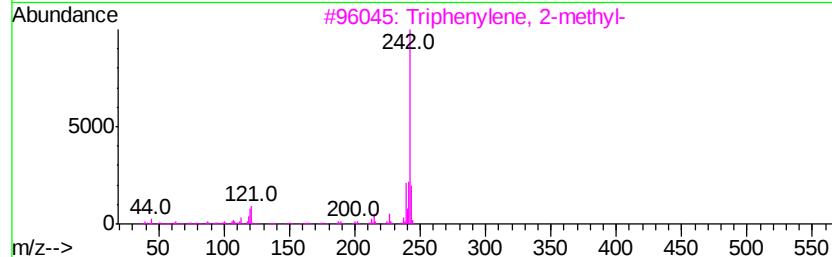
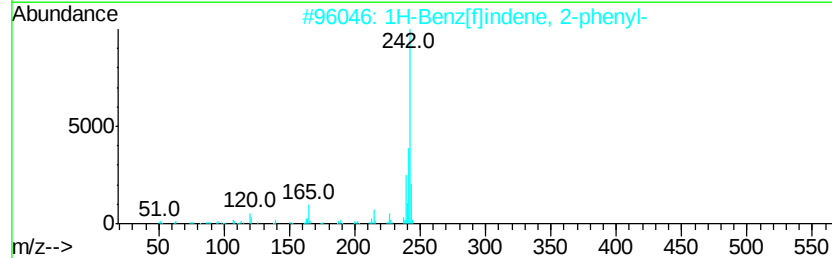
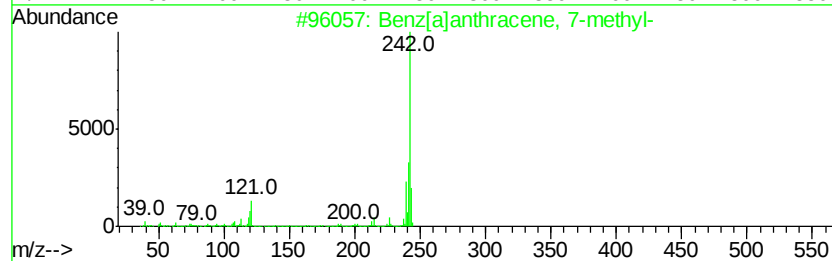
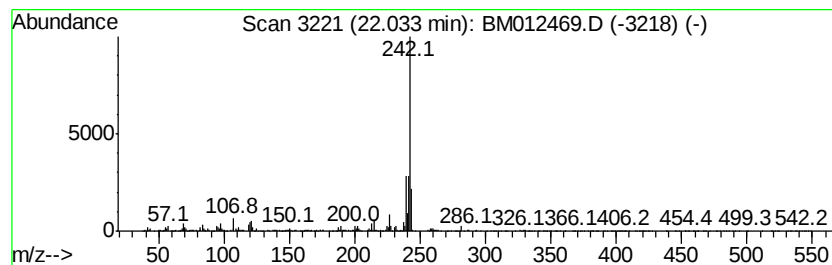
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 36 Benz[a]anthracene, 7-methyl- Concentration Rank 27

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 22.03 | 2.43 ng/ul | 1150470 | Chrysene-d12     | 21.42 |

| Hit# | of | Tentative ID                 | MW  | MolForm | CAS#         | Qual |
|------|----|------------------------------|-----|---------|--------------|------|
| 1    | 5  | Benz[a]anthracene, 7-methyl- | 242 | C19H14  | 002541-69-7  | 90   |
| 2    |    | 1H-Benz[flindene, 2-phenyl-  | 242 | C19H14  | 1000305-22-4 | 90   |
| 3    |    | Triphenylene, 2-methyl-      | 242 | C19H14  | 001705-84-6  | 90   |
| 4    |    | Benz[a]anthracene, 1-methyl- | 242 | C19H14  | 002498-77-3  | 89   |
| 5    |    | Chrysene, 1-methyl-          | 242 | C19H14  | 003351-28-8  | 89   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM102517\  
 Data File : BM012469.D  
 Acq On : 26 Oct 2017 12:23  
 Operator : SJ/JU  
 Sample : I5756-07DL 5X  
 Misc :  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 B0CN1DL

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102417.M  
 Quant Title : SVOA CALIBRATION

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| Naphthalene, 1-me... | 12.55 | 3.8     | ng/ul | 893316   | 2                     | 10.67 | 4716710 | 20.0 |
| Naphthalene, 1,6-... | 13.83 | 4.9     | ng/ul | 1461450  | 3                     | 14.51 | 5940690 | 20.0 |
| Naphthalene, 1,7-... | 14.06 | 2.3     | ng/ul | 693510   | 3                     | 14.51 | 5940690 | 20.0 |
| Naphthalene, 2,3,... | 14.90 | 3.1     | ng/ul | 930463   | 3                     | 14.51 | 5940690 | 20.0 |
| Benzophenone         | 15.86 | 2.8     | ng/ul | 844131   | 3                     | 14.51 | 5940690 | 20.0 |
| Chamazulene          | 16.23 | 2.3     | ng/ul | 648029   | 4                     | 17.25 | 5654710 | 20.0 |
| 9H-Fluorene, 1-me... | 16.56 | 4.2     | ng/ul | 1182630  | 4                     | 17.25 | 5654710 | 20.0 |
| 9H-Fluorene, 2-me... | 16.60 | 2.4     | ng/ul | 675674   | 4                     | 17.25 | 5654710 | 20.0 |
| Naphtho[2,1-b]thi... | 17.07 | 2.1     | ng/ul | 599789   | 4                     | 17.25 | 5654710 | 20.0 |
| 9H-Fluorene, 2,3-... | 17.44 | 2.5     | ng/ul | 710535   | 4                     | 17.25 | 5654710 | 20.0 |
| O,0,0-Triethyl th... | 17.83 | 2.8     | ng/ul | 778090   | 4                     | 17.25 | 5654710 | 20.0 |
| Phenanthrene, 1-m... | 18.12 | 8.8     | ng/ul | 2476170  | 4                     | 17.25 | 5654710 | 20.0 |
| 1H-Cyclopropa[l]p... | 18.25 | 3.5     | ng/ul | 998622   | 4                     | 17.25 | 5654710 | 20.0 |
| Phenanthrene, 4-m... | 18.31 | 13.1    | ng/ul | 3715410  | 4                     | 17.25 | 5654710 | 20.0 |
| Naphthalene, 2-ph... | 18.62 | 3.2     | ng/ul | 895577   | 4                     | 17.25 | 5654710 | 20.0 |
| Phenanthrene, 2,3... | 18.87 | 2.8     | ng/ul | 785448   | 4                     | 17.25 | 5654710 | 20.0 |
| di-p-Tolylacetylene  | 19.04 | 9.8     | ng/ul | 2757000  | 4                     | 17.25 | 5654710 | 20.0 |
| Phenanthrene, 3,6... | 19.10 | 7.3     | ng/ul | 2064020  | 4                     | 17.25 | 5654710 | 20.0 |
| 9,10-Dimethylantr... | 19.17 | 7.0     | ng/ul | 1974290  | 4                     | 17.25 | 5654710 | 20.0 |
| Phenanthrene, 2,3... | 19.74 | 2.2     | ng/ul | 1054080  | 5                     | 21.42 | 9461290 | 20.0 |
| Pyrene, 1-methyl-    | 19.99 | 4.4     | ng/ul | 2101380  | 5                     | 21.42 | 9461290 | 20.0 |
| 11H-Benzo[b]fluorene | 20.16 | 3.2     | ng/ul | 1523020  | 5                     | 21.42 | 9461290 | 20.0 |
| Pyrene, 2-methyl-    | 20.32 | 3.6     | ng/ul | 1715130  | 5                     | 21.42 | 9461290 | 20.0 |
| 7H-Benz[de]anthra... | 20.90 | 2.3     | ng/ul | 1075980  | 5                     | 21.42 | 9461290 | 20.0 |
| Chrysene, 1-methyl-  | 21.98 | 2.7     | ng/ul | 1264930  | 5                     | 21.42 | 9461290 | 20.0 |
| Benz[a]anthracene... | 22.03 | 2.4     | ng/ul | 1150470  | 5                     | 21.42 | 9461290 | 20.0 |