

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN030320\  
 Data File : BN010052.D  
 Acq On : 02 Mar 2020 22:27  
 Operator : CG/JU  
 Sample : L1619-07  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 DBDW1

## Integration Parameters: LSCINT.P

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

Filtering: 5  
 Min Area: 0.1 % 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:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.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         | 4.569       | 264           | 269         | 277          | rBV      | 19418          | 31957         | 1.06%           | 0.106%        |
| 2         | 6.581       | 606           | 611         | 626          | rBV2     | 99272          | 215486        | 7.14%           | 0.715%        |
| 3         | 6.734       | 631           | 637         | 650          | rBV      | 80628          | 150408        | 4.98%           | 0.499%        |
| 4         | 6.916       | 662           | 668         | 679          | rVV      | 118023         | 208938        | 6.92%           | 0.693%        |
| 5         | 7.369       | 738           | 745         | 758          | rVB      | 378332         | 627077        | 20.77%          | 2.080%        |
| 6         | 8.093       | 863           | 868         | 882          | rBV2     | 124031         | 245769        | 8.14%           | 0.815%        |
| 7         | 8.522       | 934           | 941         | 957          | rBV      | 108824         | 216641        | 7.18%           | 0.719%        |
| 8         | 9.228       | 1055          | 1061        | 1075         | rVV      | 87253          | 174583        | 5.78%           | 0.579%        |
| 9         | 9.775       | 1146          | 1154        | 1167         | rBV3     | 103476         | 237754        | 7.87%           | 0.789%        |
| 10        | 10.110      | 1205          | 1211        | 1217         | rBV      | 531803         | 911815        | 30.20%          | 3.025%        |
| 11        | 10.163      | 1217          | 1220        | 1226         | rVB2     | 46409          | 72526         | 2.40%           | 0.241%        |
| 12        | 10.287      | 1235          | 1241        | 1254         | rBV2     | 99103          | 228872        | 7.58%           | 0.759%        |
| 13        | 11.792      | 1489          | 1497        | 1508         | rBV      | 173140         | 339543        | 11.25%          | 1.126%        |
| 14        | 12.016      | 1526          | 1535        | 1544         | rBV      | 90143          | 161106        | 5.34%           | 0.534%        |
| 15        | 12.833      | 1668          | 1674        | 1682         | rBV      | 122149         | 188148        | 6.23%           | 0.624%        |
| 16        | 13.033      | 1702          | 1708        | 1718         | rVB      | 50947          | 85328         | 2.83%           | 0.283%        |
| 17        | 13.163      | 1725          | 1730        | 1731         | rBV      | 47523          | 53643         | 1.78%           | 0.178%        |
| 18        | 13.322      | 1751          | 1757        | 1763         | rBV      | 78790          | 143571        | 4.75%           | 0.476%        |
| 19        | 13.381      | 1763          | 1767        | 1771         | rVV2     | 43567          | 61031         | 2.02%           | 0.202%        |
| 20        | 13.439      | 1771          | 1777        | 1782         | rBV      | 279303         | 399876        | 13.24%          | 1.326%        |
| 21        | 13.486      | 1782          | 1785        | 1792         | rVB2     | 29259          | 44988         | 1.49%           | 0.149%        |
| 22        | 13.569      | 1794          | 1799        | 1802         | rBV2     | 29074          | 47722         | 1.58%           | 0.158%        |
| 23        | 13.692      | 1814          | 1820        | 1825         | rBV      | 305881         | 456212        | 15.11%          | 1.513%        |
| 24        | 13.733      | 1825          | 1827        | 1835         | rVB4     | 27121          | 36997         | 1.23%           | 0.123%        |
| 25        | 14.010      | 1867          | 1874        | 1879         | rVV      | 848589         | 1281759       | 42.45%          | 4.252%        |
| 26        | 14.069      | 1879          | 1884        | 1890         | rVV      | 862904         | 1273716       | 42.18%          | 4.225%        |
| 27        | 14.110      | 1890          | 1891        | 1896         | rVB      | 20187          | 18199         | 0.60%           | 0.060%        |
| 28        | 14.228      | 1906          | 1911        | 1915         | rBV2     | 10583          | 19304         | 0.64%           | 0.064%        |
| 29        | 14.322      | 1919          | 1927        | 1937         | rVV4     | 63148          | 167499        | 5.55%           | 0.556%        |
| 30        | 14.416      | 1937          | 1943        | 1951         | rVV      | 586282         | 881587        | 29.20%          | 2.924%        |
| 31        | 14.480      | 1951          | 1954        | 1963         | rVB6     | 27515          | 63156         | 2.09%           | 0.210%        |
| 32        | 14.639      | 1976          | 1981        | 1987         | rVB4     | 11889          | 18489         | 0.61%           | 0.061%        |
| 33        | 14.698      | 1987          | 1991        | 1996         | rVB2     | 11469          | 16119         | 0.53%           | 0.053%        |
| 34        | 15.016      | 2039          | 2045        | 2049         | rVV      | 407851         | 586377        | 19.42%          | 1.945%        |

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

Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |         |         |
|----|--------|------|------|------|------|---------|---------|---------|---------|
| 35 | 15.069 | 2049 | 2054 | 2061 | rVV  | 673075  | 964235  | 31.93%  | 3.199%  |
| 36 | 15.192 | 2067 | 2075 | 2079 | rVV3 | 101915  | 200710  | 6.65%   | 0.666%  |
| 37 | 15.233 | 2079 | 2082 | 2087 | rVV2 | 90194   | 133878  | 4.43%   | 0.444%  |
| 38 | 15.286 | 2087 | 2091 | 2094 | rVV3 | 16015   | 23842   | 0.79%   | 0.079%  |
| 39 | 15.322 | 2094 | 2097 | 2101 | rVV2 | 38048   | 50167   | 1.66%   | 0.166%  |
| 40 | 15.375 | 2101 | 2106 | 2112 | rVB  | 93407   | 123670  | 4.10%   | 0.410%  |
| 41 | 15.522 | 2125 | 2131 | 2139 | rVV  | 88497   | 178476  | 5.91%   | 0.592%  |
| 42 | 15.610 | 2139 | 2146 | 2152 | rVB5 | 18331   | 36017   | 1.19%   | 0.119%  |
| 43 | 15.763 | 2167 | 2172 | 2181 | rBV7 | 30639   | 55780   | 1.85%   | 0.185%  |
| 44 | 15.874 | 2186 | 2191 | 2195 | rVB2 | 22980   | 34538   | 1.14%   | 0.115%  |
| 45 | 16.080 | 2220 | 2226 | 2231 | rVV3 | 48914   | 94822   | 3.14%   | 0.315%  |
| 46 | 16.133 | 2231 | 2235 | 2239 | rVV2 | 16419   | 25763   | 0.85%   | 0.085%  |
| 47 | 16.227 | 2247 | 2251 | 2256 | rVV3 | 20827   | 29410   | 0.97%   | 0.098%  |
| 48 | 16.316 | 2263 | 2266 | 2268 | rVV4 | 14445   | 18304   | 0.61%   | 0.061%  |
| 49 | 16.351 | 2268 | 2272 | 2276 | rVV3 | 18574   | 31440   | 1.04%   | 0.104%  |
| 50 | 16.433 | 2282 | 2286 | 2293 | rVB5 | 14494   | 28128   | 0.93%   | 0.093%  |
| 51 | 16.510 | 2293 | 2299 | 2304 | rBV4 | 23949   | 48622   | 1.61%   | 0.161%  |
| 52 | 16.586 | 2304 | 2312 | 2323 | rVB  | 149262  | 236421  | 7.83%   | 0.784%  |
| 53 | 16.769 | 2337 | 2343 | 2346 | rBV  | 959042  | 1422482 | 47.11%  | 4.719%  |
| 54 | 16.810 | 2346 | 2350 | 2355 | rVV  | 2321667 | 3019372 | 100.00% | 10.016% |
| 55 | 16.869 | 2355 | 2360 | 2364 | rVV  | 450880  | 717339  | 23.76%  | 2.380%  |
| 56 | 16.904 | 2364 | 2366 | 2374 | rVB  | 175981  | 199969  | 6.62%   | 0.663%  |
| 57 | 17.186 | 2407 | 2414 | 2419 | rBV2 | 56585   | 101097  | 3.35%   | 0.335%  |
| 58 | 17.298 | 2427 | 2433 | 2439 | rBV3 | 31649   | 46923   | 1.55%   | 0.156%  |
| 59 | 17.645 | 2487 | 2492 | 2496 | rVV  | 96098   | 134099  | 4.44%   | 0.445%  |
| 60 | 17.698 | 2496 | 2501 | 2506 | rVV  | 164432  | 225729  | 7.48%   | 0.749%  |
| 61 | 17.745 | 2506 | 2509 | 2512 | rVV3 | 25845   | 41377   | 1.37%   | 0.137%  |
| 62 | 17.780 | 2512 | 2515 | 2519 | rVV  | 40812   | 57808   | 1.91%   | 0.192%  |
| 63 | 17.839 | 2519 | 2525 | 2529 | rVV  | 230096  | 352162  | 11.66%  | 1.168%  |
| 64 | 17.880 | 2529 | 2532 | 2539 | rVB  | 41101   | 60733   | 2.01%   | 0.201%  |
| 65 | 17.992 | 2549 | 2551 | 2557 | rVV5 | 9628    | 15767   | 0.52%   | 0.052%  |
| 66 | 18.157 | 2574 | 2579 | 2584 | rVV2 | 71783   | 102890  | 3.41%   | 0.341%  |
| 67 | 18.398 | 2614 | 2620 | 2626 | rBV3 | 80410   | 101842  | 3.37%   | 0.338%  |
| 68 | 18.574 | 2644 | 2650 | 2654 | rBV4 | 23551   | 40890   | 1.35%   | 0.136%  |
| 69 | 18.639 | 2657 | 2661 | 2665 | rBV5 | 18320   | 22308   | 0.74%   | 0.074%  |
| 70 | 18.733 | 2670 | 2677 | 2680 | rBV7 | 12947   | 27815   | 0.92%   | 0.092%  |
| 71 | 18.839 | 2690 | 2695 | 2706 | rVB  | 1177990 | 1508940 | 49.98%  | 5.005%  |

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## Integration Parameters: LSCINT.P

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

Filtering: 5  
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 Max Peaks: 100  
 Peak Location: TOP

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 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
 Title : SVOA CALIBRATION

|     |        |      |      |      |      |         |         |        |        |
|-----|--------|------|------|------|------|---------|---------|--------|--------|
| 72  | 19.086 | 2731 | 2737 | 2740 | rBV3 | 30167   | 41767   | 1.38%  | 0.139% |
| 73  | 19.174 | 2747 | 2752 | 2755 | rBV2 | 645777  | 1040006 | 34.44% | 3.450% |
| 74  | 19.204 | 2755 | 2757 | 2762 | rVB  | 728774  | 889945  | 29.47% | 2.952% |
| 75  | 19.292 | 2769 | 2772 | 2780 | rVB3 | 28594   | 42557   | 1.41%  | 0.141% |
| 76  | 19.398 | 2786 | 2790 | 2797 | rVB  | 36418   | 52792   | 1.75%  | 0.175% |
| 77  | 19.539 | 2809 | 2814 | 2816 | rBV4 | 23189   | 39476   | 1.31%  | 0.131% |
| 78  | 19.604 | 2822 | 2825 | 2831 | rBV2 | 15257   | 20231   | 0.67%  | 0.067% |
| 79  | 19.686 | 2834 | 2839 | 2840 | rBV3 | 21009   | 31316   | 1.04%  | 0.104% |
| 80  | 19.715 | 2841 | 2844 | 2849 | rVB2 | 83978   | 110023  | 3.64%  | 0.365% |
| 81  | 19.815 | 2857 | 2861 | 2866 | rBV2 | 93229   | 123266  | 4.08%  | 0.409% |
| 82  | 19.874 | 2866 | 2871 | 2874 | rBV3 | 36713   | 56807   | 1.88%  | 0.188% |
| 83  | 20.063 | 2900 | 2903 | 2906 | rBV4 | 13618   | 18015   | 0.60%  | 0.060% |
| 84  | 20.268 | 2932 | 2938 | 2941 | rBV4 | 26024   | 46407   | 1.54%  | 0.154% |
| 85  | 20.633 | 2997 | 3000 | 3003 | rBV  | 30702   | 39660   | 1.31%  | 0.132% |
| 86  | 20.680 | 3003 | 3008 | 3011 | rVV2 | 64630   | 116033  | 3.84%  | 0.385% |
| 87  | 20.727 | 3011 | 3016 | 3022 | rVV3 | 283180  | 439311  | 14.55% | 1.457% |
| 88  | 20.786 | 3022 | 3026 | 3033 | rVB  | 168407  | 225405  | 7.47%  | 0.748% |
| 89  | 20.986 | 3053 | 3060 | 3065 | rBV2 | 1196104 | 1819262 | 60.25% | 6.035% |
| 90  | 21.027 | 3065 | 3067 | 3074 | rVB  | 136577  | 160223  | 5.31%  | 0.531% |
| 91  | 21.115 | 3079 | 3082 | 3084 | rBV2 | 39233   | 45927   | 1.52%  | 0.152% |
| 92  | 21.168 | 3089 | 3091 | 3095 | rVB  | 96614   | 108321  | 3.59%  | 0.359% |
| 93  | 21.586 | 3159 | 3162 | 3167 | rVB  | 165636  | 187379  | 6.21%  | 0.622% |
| 94  | 22.015 | 3231 | 3235 | 3241 | rVB  | 245903  | 285488  | 9.46%  | 0.947% |
| 95  | 22.480 | 3309 | 3314 | 3324 | rVB  | 347649  | 546272  | 18.09% | 1.812% |
| 96  | 22.951 | 3389 | 3394 | 3398 | rBV  | 376723  | 653245  | 21.64% | 2.167% |
| 97  | 22.992 | 3398 | 3401 | 3408 | rVB  | 373657  | 520129  | 17.23% | 1.725% |
| 98  | 23.080 | 3410 | 3416 | 3430 | rVB  | 837424  | 1483679 | 49.14% | 4.922% |
| 99  | 23.568 | 3494 | 3499 | 3506 | rVB  | 257240  | 439457  | 14.55% | 1.458% |
| 100 | 24.233 | 3606 | 3612 | 3620 | rBV  | 196870  | 383558  | 12.70% | 1.272% |

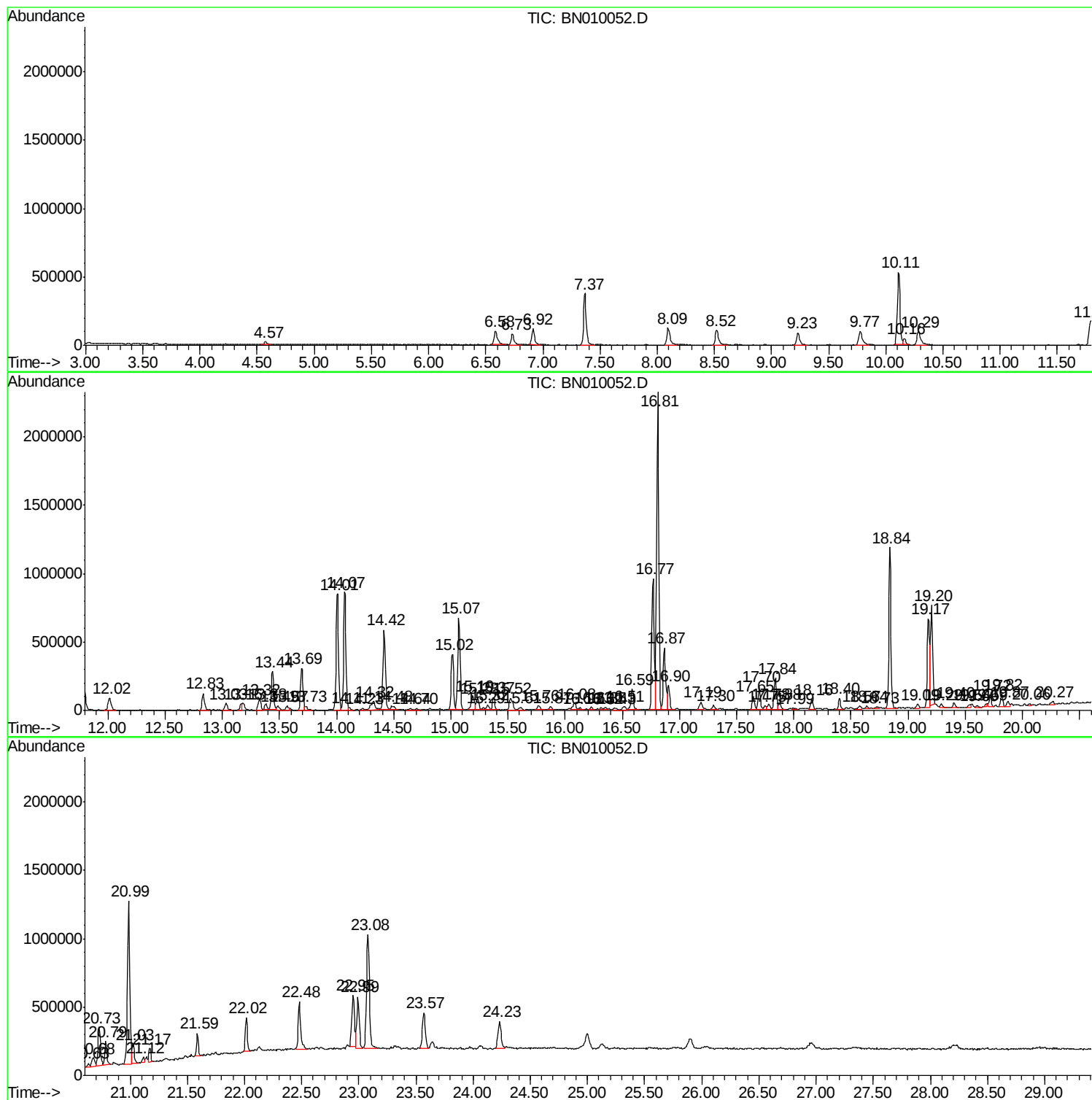
Sum of corrected areas: 30145918

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION

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



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Quant Title : SVOA CALIBRATION

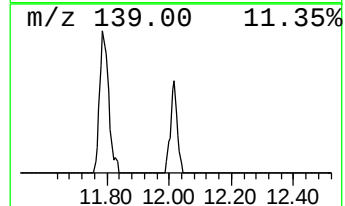
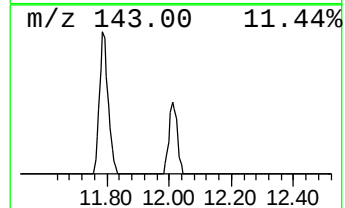
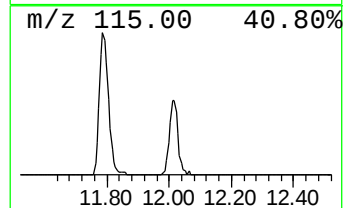
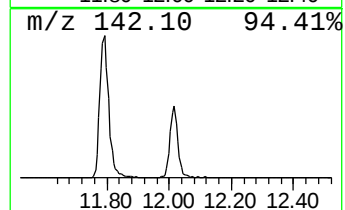
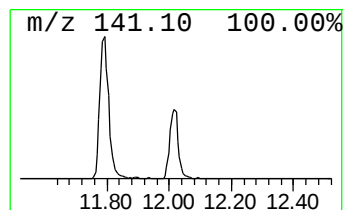
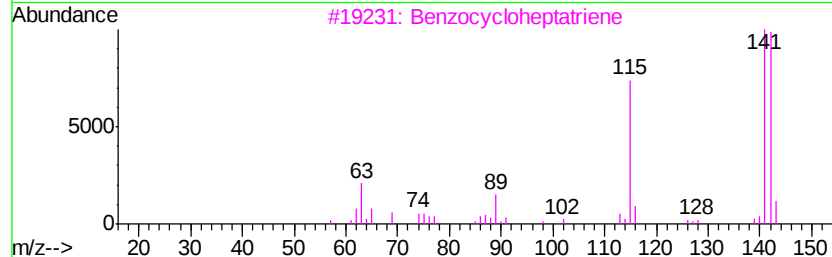
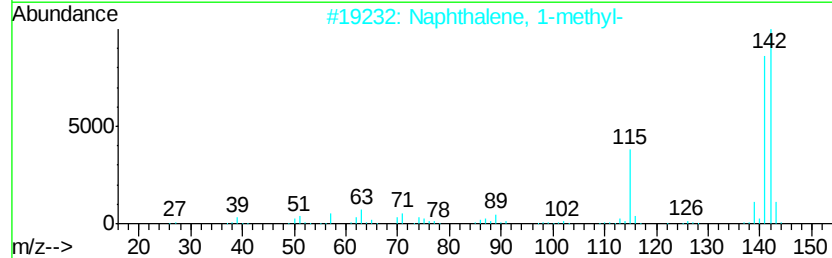
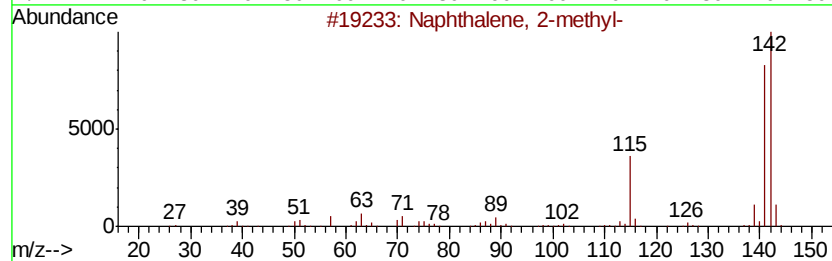
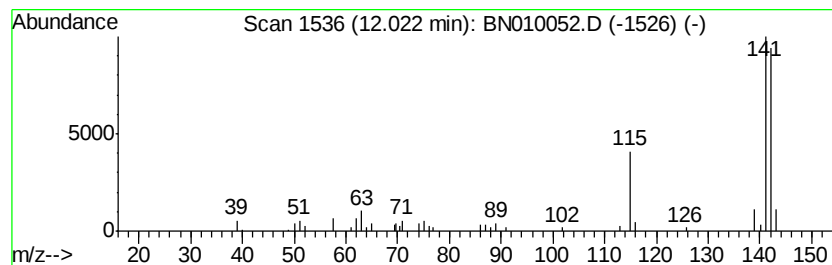
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 Naphthalene, 1-methyl- Concentration Rank 5

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 12.02 | 3.53 ng/ul | 161106 | Naphthalene-d8   | 10.11 |

| Hit# of | 5 | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|---------|---|------------------------|-----|---------|-------------|------|
| 1       |   | Naphthalene, 2-methyl- | 142 | C11H10  | 000091-57-6 | 95   |
| 2       |   | Naphthalene, 1-methyl- | 142 | C11H10  | 000090-12-0 | 95   |
| 3       |   | Benzocycloheptatriene  | 142 | C11H10  | 000264-09-5 | 94   |
| 4       |   | Benzocycloheptatriene  | 142 | C11H10  | 000264-09-5 | 91   |
| 5       |   | Naphthalene, 2-methyl- | 142 | C11H10  | 000091-57-6 | 91   |



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Quant Title : SVOA CALIBRATION

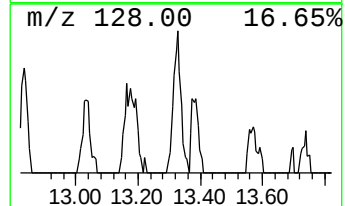
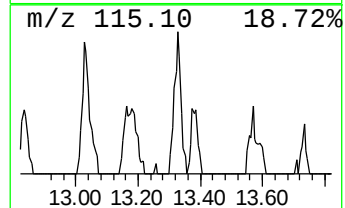
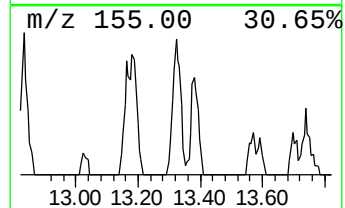
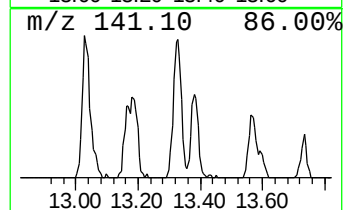
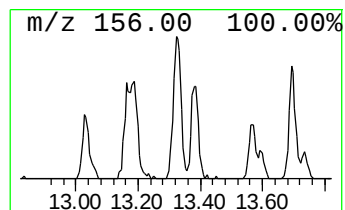
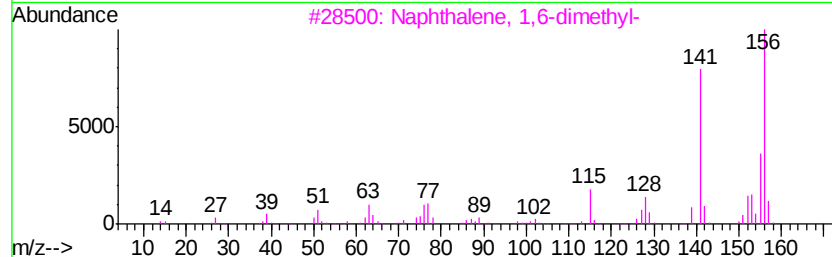
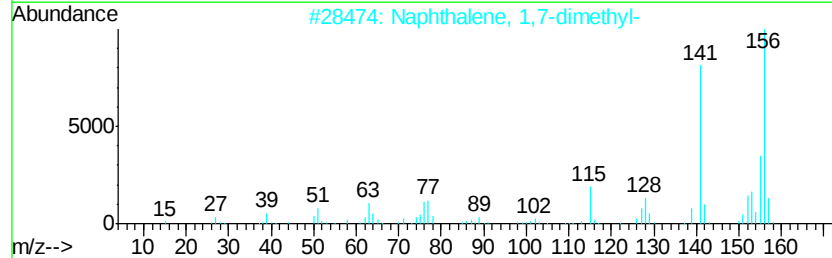
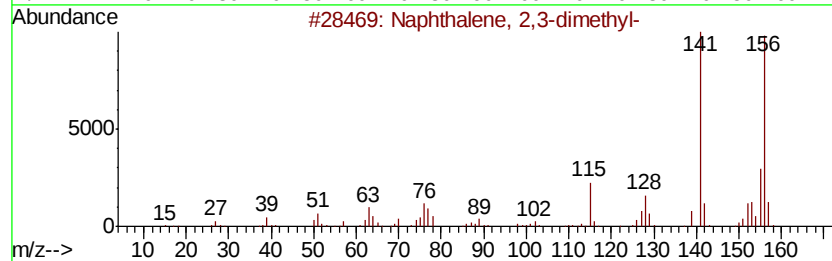
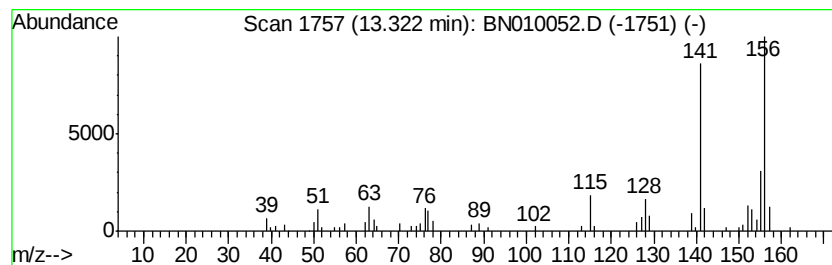
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 Naphthalene, 2,3-dimethyl- Concentration Rank 11

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 13.32 | 2.24 ng/ul | 143571 | Acenaphthene-d10 | 14.01 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 98   |
| 2    |    | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 98   |
| 3    |    | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 98   |
| 4    |    | Naphthalene, 1,5-dimethyl- | 156 | C12H12  | 000571-61-9 | 98   |
| 5    |    | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 97   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN030320\  
Data File : BN010052.D  
Acq On : 02 Mar 2020 22:27  
Operator : CG/JU  
Sample : L1619-07  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DBDW1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION

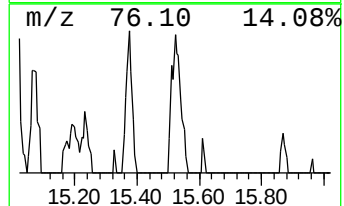
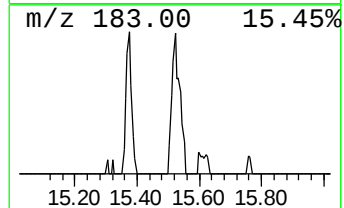
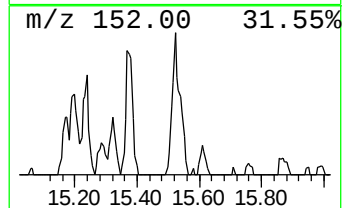
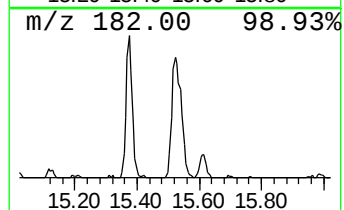
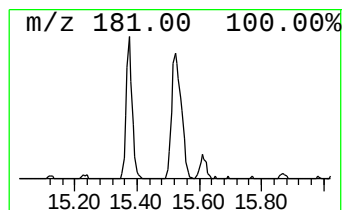
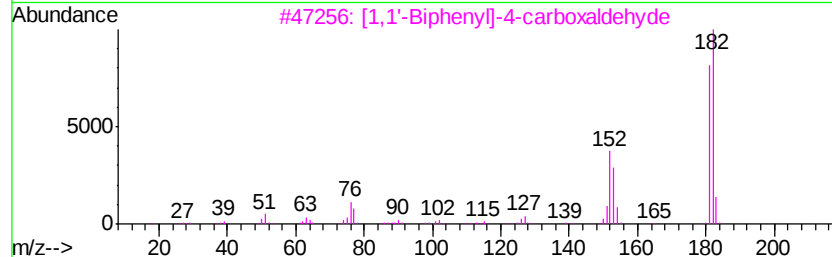
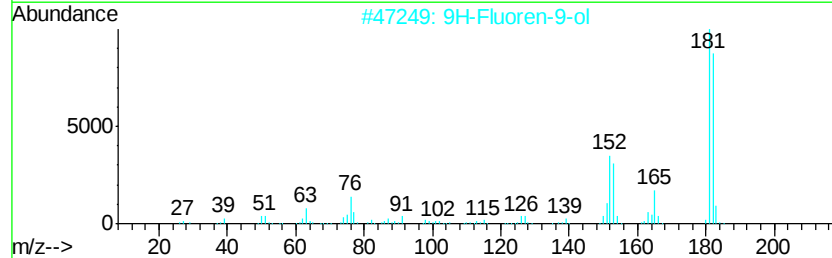
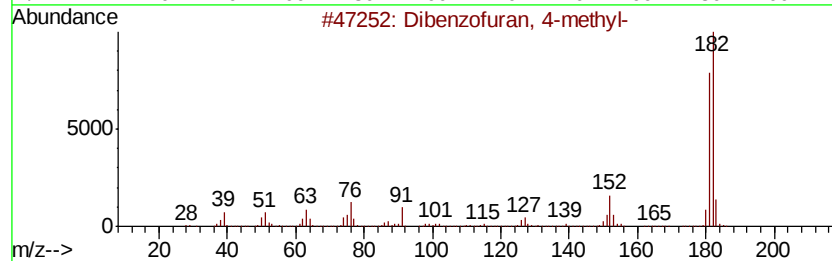
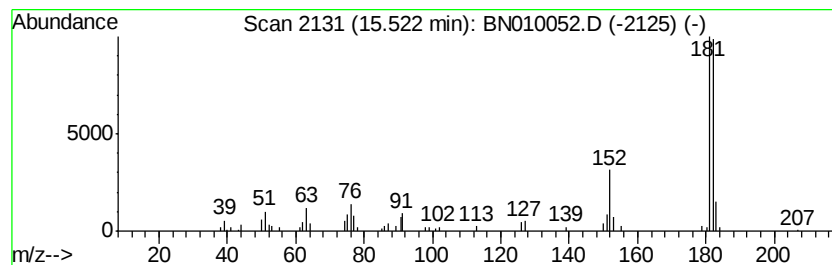
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Dibenzofuran, 4-methyl- Concentration Rank 9

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 15.52 | 2.51 ng/ul | 178476 | Phenanthrene-d10 | 16.77 |

| Hit# | of | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------------|-----|---------|-------------|------|
| 1    | 5  | Dibenzofuran, 4-methyl-          | 182 | C13H10O | 007320-53-8 | 94   |
| 2    |    | 9H-Fluoren-9-ol                  | 182 | C13H10O | 001689-64-1 | 94   |
| 3    |    | [1,1'-Biphenyl]-4-carboxaldehyde | 182 | C13H10O | 003218-36-8 | 94   |
| 4    |    | [1,1'-Biphenyl]-4-carboxaldehyde | 182 | C13H10O | 003218-36-8 | 91   |
| 5    |    | [1,1'-Biphenyl]-4-carboxaldehyde | 182 | C13H10O | 003218-36-8 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN030320\  
Data File : BN010052.D  
Acq On : 02 Mar 2020 22:27  
Operator : CG/JU  
Sample : L1619-07  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DBDW1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION

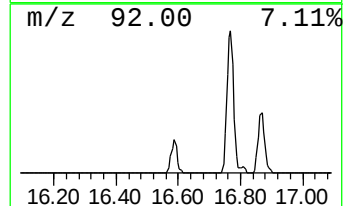
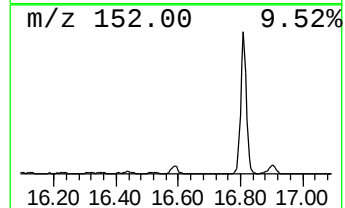
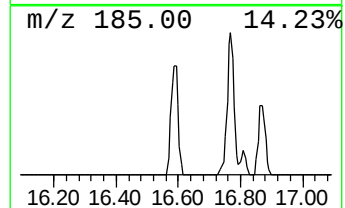
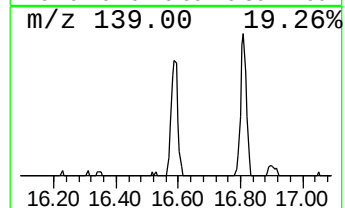
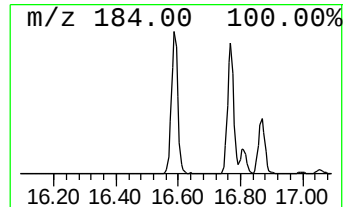
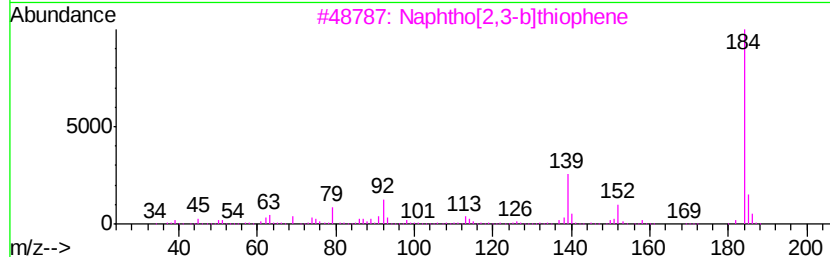
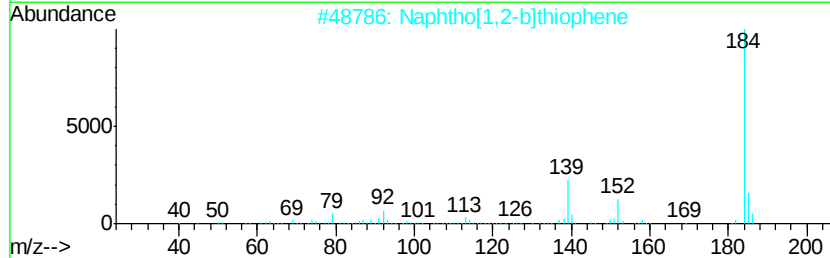
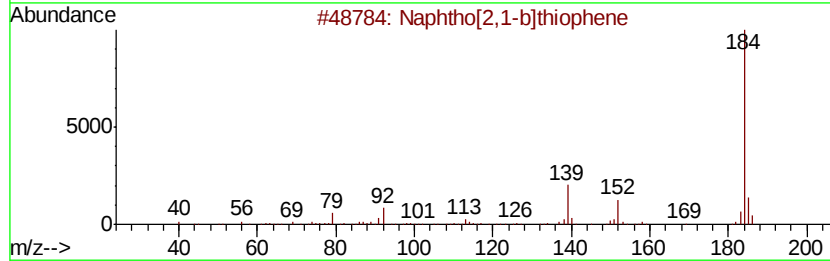
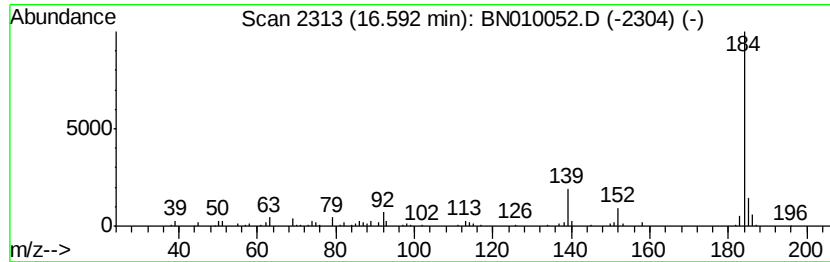
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Naphtho[2,1-b]thiophene Concentration Rank 6

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 16.59 | 3.32 ng/ul | 236421 | Phenanthrene-d10 | 16.77 |

| Hit# of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------|-----|---------|-------------|------|
| 1       |   | Naphtho[2,1-b]thiophene | 184 | C12H8S  | 000233-02-3 | 95   |
| 2       |   | Naphtho[1,2-b]thiophene | 184 | C12H8S  | 000234-41-3 | 95   |
| 3       |   | Naphtho[2,3-b]thiophene | 184 | C12H8S  | 000268-77-9 | 95   |
| 4       |   | Dibenzothiophene        | 184 | C12H8S  | 000132-65-0 | 93   |
| 5       |   | Dibenzothiophene        | 184 | C12H8S  | 000132-65-0 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN030320\  
Data File : BN010052.D  
Acq On : 02 Mar 2020 22:27  
Operator : CG/JU  
Sample : L1619-07  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DBDW1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION

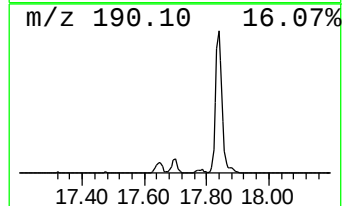
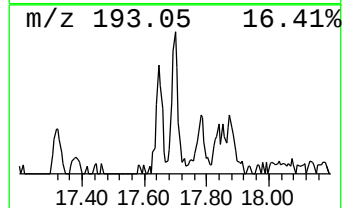
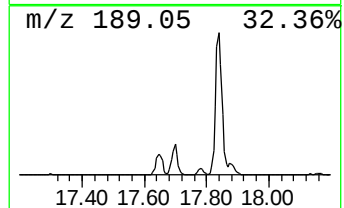
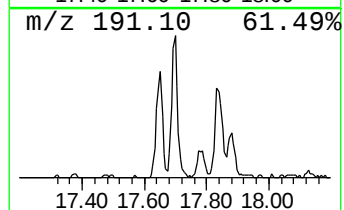
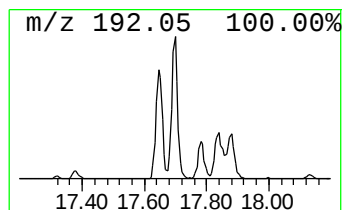
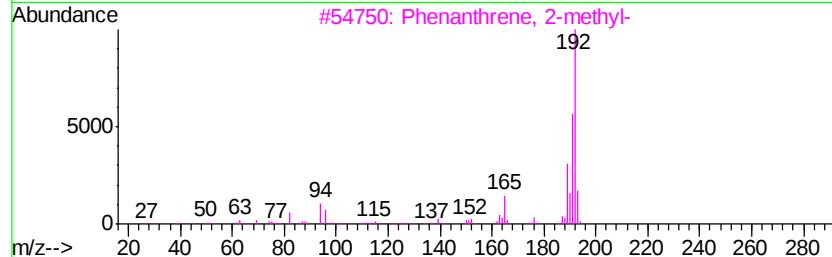
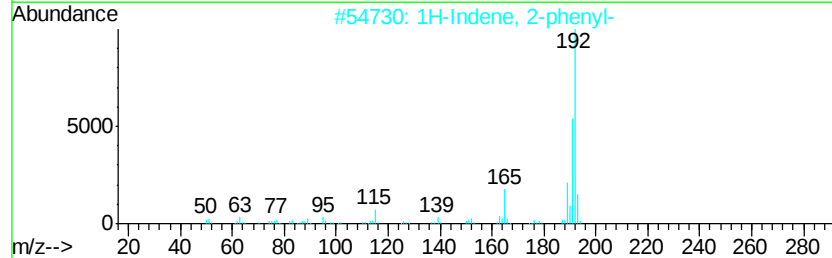
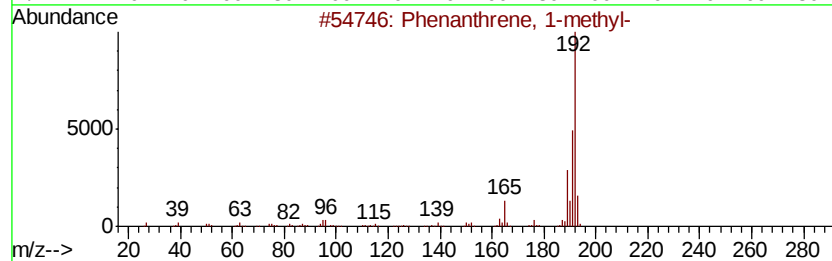
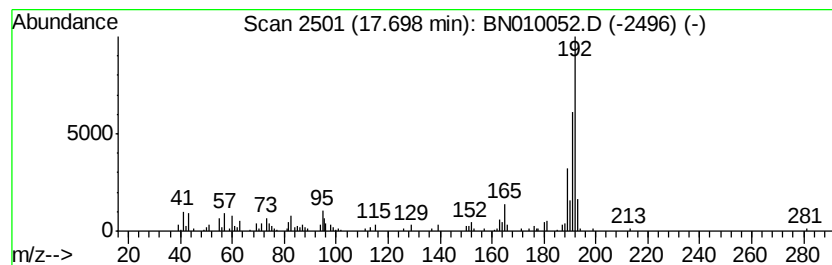
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Phenanthrene, 1-methyl- Concentration Rank 7

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 17.70 | 3.17 ng/ul | 225729 | Phenanthrene-d10 | 16.77 |

| Hit# of | 5                       | Tentative ID | MW     | MolForm     | CAS# | Qual |
|---------|-------------------------|--------------|--------|-------------|------|------|
| 1       | Phenanthrene, 1-methyl- | 192          | C15H12 | 000832-69-9 | 96   |      |
| 2       | 1H-Indene, 2-phenyl-    | 192          | C15H12 | 004505-48-0 | 95   |      |
| 3       | Phenanthrene, 2-methyl- | 192          | C15H12 | 002531-84-2 | 95   |      |
| 4       | Phenanthrene, 2-methyl- | 192          | C15H12 | 002531-84-2 | 94   |      |
| 5       | Phenanthrene, 1-methyl- | 192          | C15H12 | 000832-69-9 | 93   |      |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN030320\  
Data File : BN010052.D  
Acq On : 02 Mar 2020 22:27  
Operator : CG/JU  
Sample : L1619-07  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

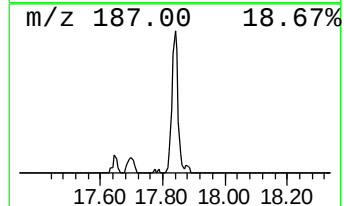
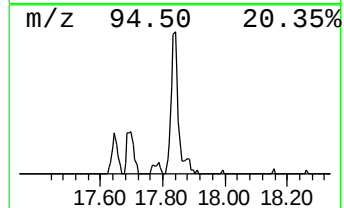
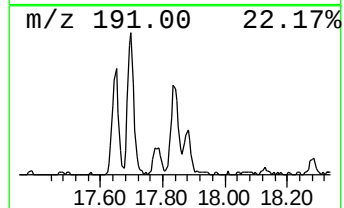
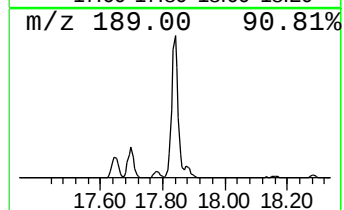
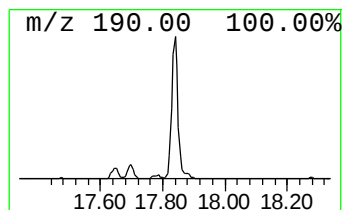
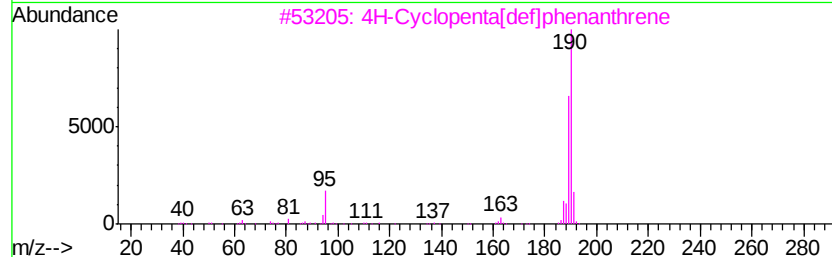
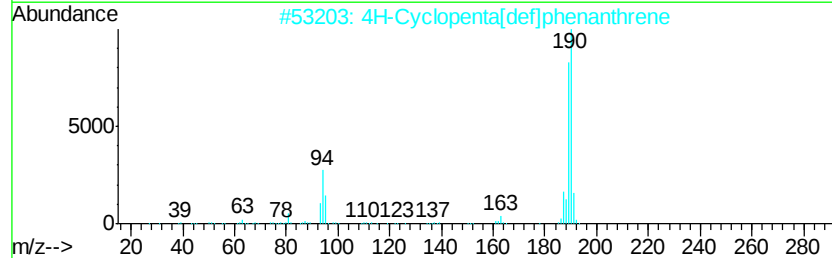
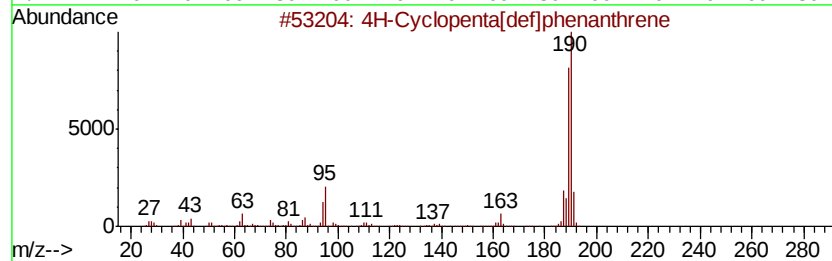
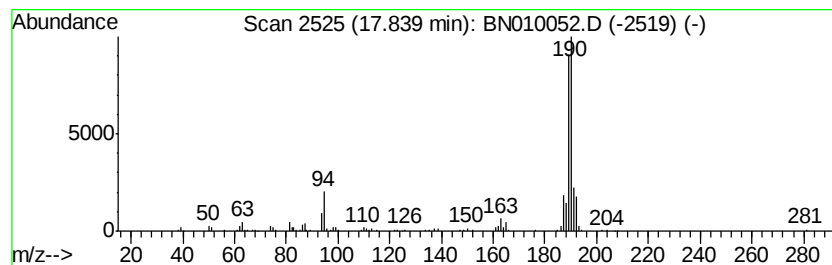
Instrument :  
BNA\_N  
ClientSampleId :  
DBDW1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION

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

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Peak Number 6 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

| R.T.    | EstConc                        | Area         | Relative to ISTD | R.T.        |      |      |
|---------|--------------------------------|--------------|------------------|-------------|------|------|
| 17.84   | 4.95 ng/ul                     | 352162       | Phenanthrene-d10 | 16.77       |      |      |
| Hit# of | 5                              | Tentative ID | MW               | MolForm     | CAS# | Qual |
| 1       | 4H-Cyclopenta[def]phenanthrene | 190          | C15H10           | 000203-64-5 | 91   |      |
| 2       | 4H-Cyclopenta[def]phenanthrene | 190          | C15H10           | 000203-64-5 | 91   |      |
| 3       | 4H-Cyclopenta[def]phenanthrene | 190          | C15H10           | 000203-64-5 | 83   |      |
| 4       | Phenol, 4-(2-thienylmethyl)-   | 190          | C11H10OS         | 091680-55-6 | 64   |      |
| 5       | Methyl diselenide              | 190          | C2H6Se2          | 007101-31-7 | 55   |      |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN030320\  
Data File : BN010052.D  
Acq On : 02 Mar 2020 22:27  
Operator : CG/JU  
Sample : L1619-07  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DBDW1

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Quant Title : SVOA CALIBRATION

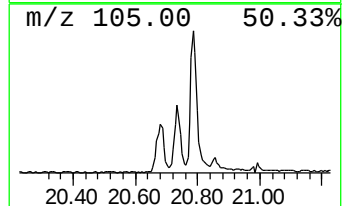
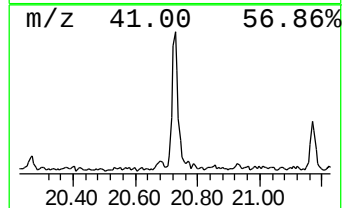
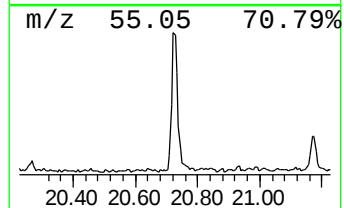
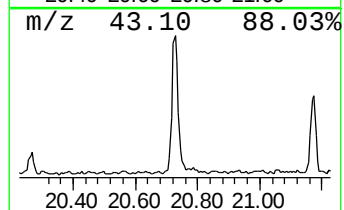
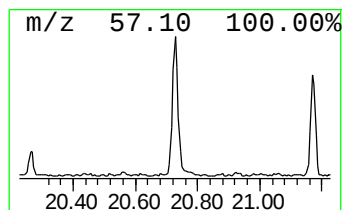
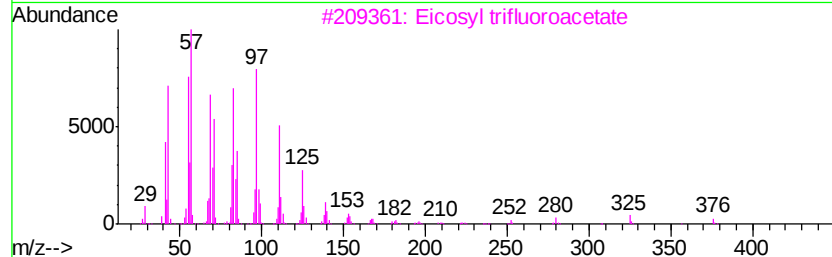
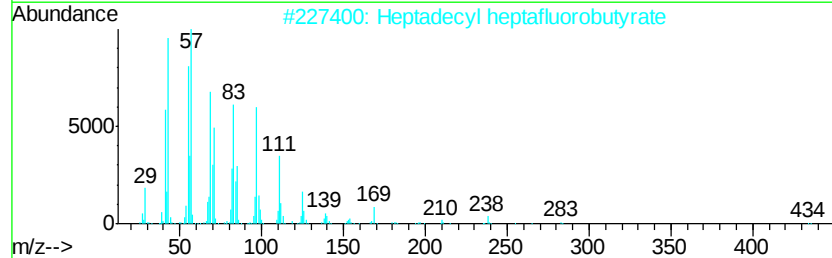
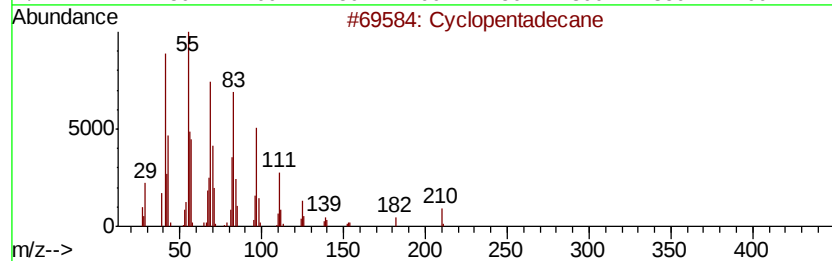
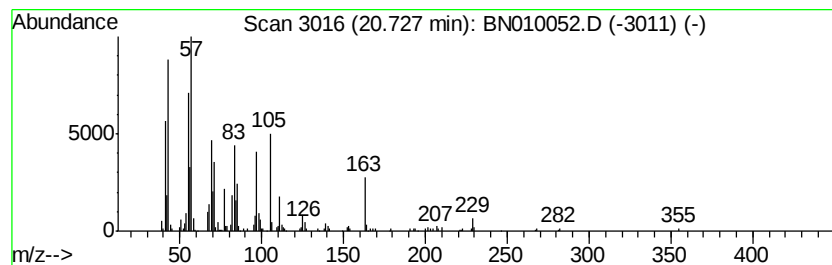
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 (DEL) Alkane: Cyclic20.73 Concentration Rank 4

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 20.73 | 4.83 ng/ul | 439311 | Chrysene-d12     | 20.99 |

| Hit# | of | Tentative ID                     | MW  | MolForm    | CAS#         | Qual |
|------|----|----------------------------------|-----|------------|--------------|------|
| 1    | 5  | Cyclopentadecane                 | 210 | C15H30     | 000295-48-7  | 91   |
| 2    |    | Heptadecyl heptafluorobutyrate   | 452 | C21H35F7O2 | 959085-66-6  | 81   |
| 3    |    | Eicosyl trifluoroacetate         | 394 | C22H41F3O2 | 1000351-75-2 | 74   |
| 4    |    | 17-Pentatriacontene              | 491 | C35H70     | 006971-40-0  | 74   |
| 5    |    | Heptacosyl pentafluoropropionate | 542 | C30H55F5O2 | 1000351-81-6 | 72   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN030320\  
Data File : BN010052.D  
Acq On : 02 Mar 2020 22:27  
Operator : CG/JU  
Sample : L1619-07  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleID :  
DBDW1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION

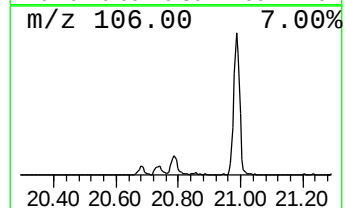
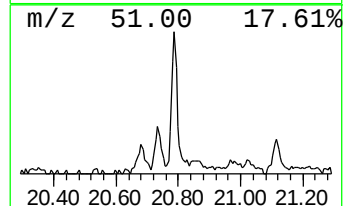
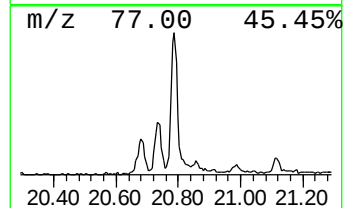
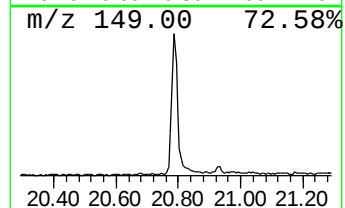
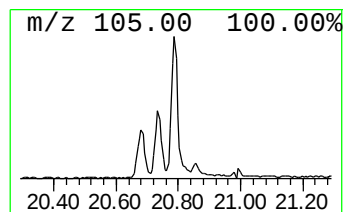
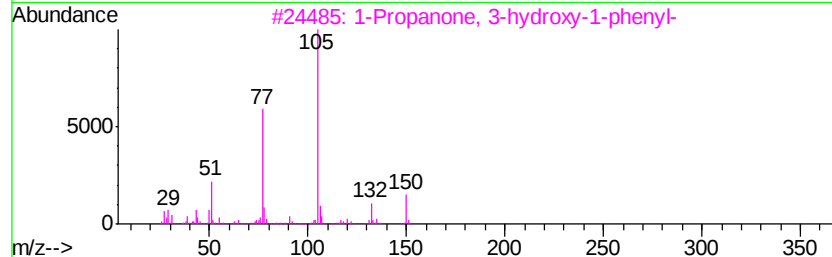
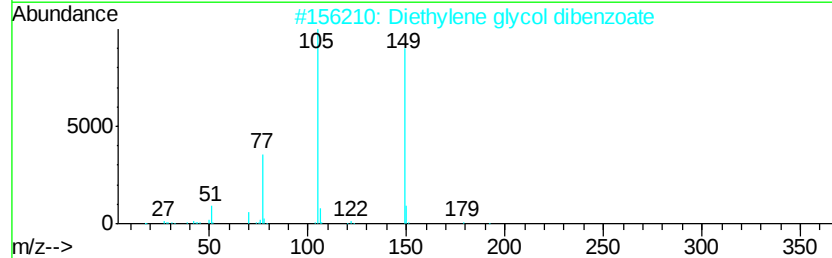
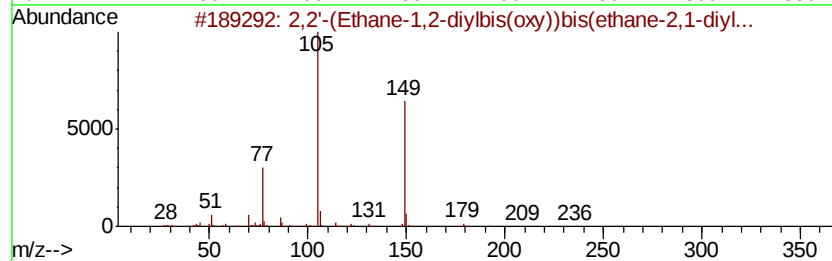
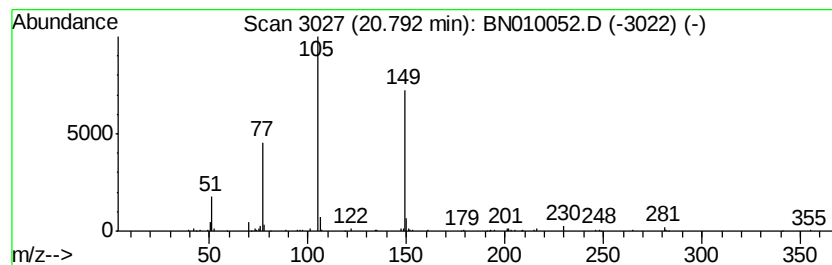
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 2,2'-(Ethane-1,2-diylbis(ox... Concentration Rank 10

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 20.79 | 2.48 ng/ul | 225405 | Chrysene-d12     | 20.99 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | 2,2'-(Ethane-1,2-diylbis(oxv))bi... | 358 | C20H22O6 | 1000366-99-4 | 83   |
| 2    |    | Diethylene glycol dibenzoate        | 314 | C18H18O5 | 000120-55-8  | 59   |
| 3    |    | 1-Propanone, 3-hydroxy-1-phenyl-    | 150 | C9H10O2  | 005650-41-9  | 35   |
| 4    |    | S-Benzoyl(thiohydroxylamine)        | 153 | C7H7NO5  | 025740-80-1  | 35   |
| 5    |    | Benzeneacetic acid, .alpha.-oxo-... | 164 | C9H8O3   | 015206-55-0  | 35   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN030320\  
Data File : BN010052.D  
Acq On : 02 Mar 2020 22:27  
Operator : CG/JU  
Sample : L1619-07  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DBDW1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION

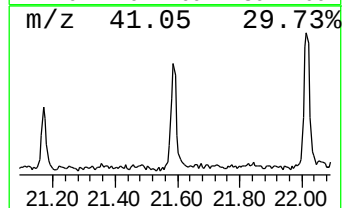
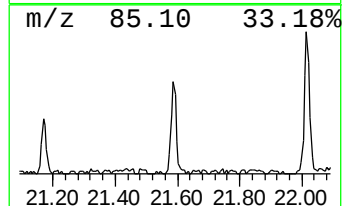
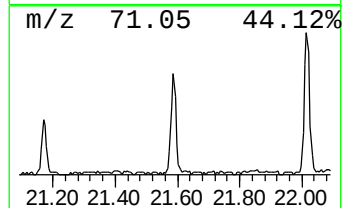
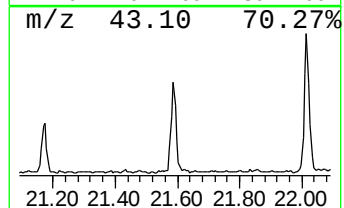
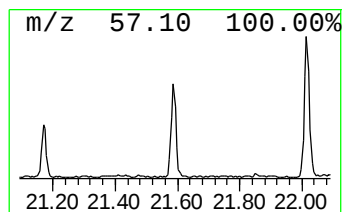
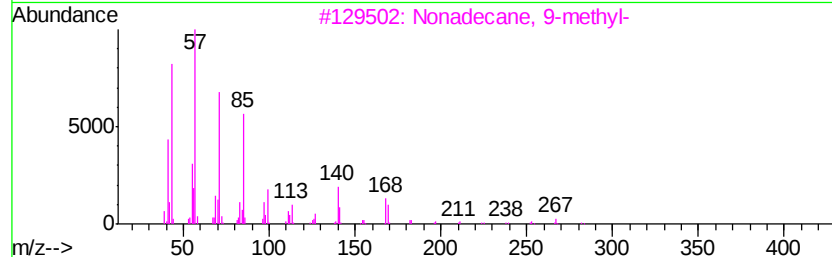
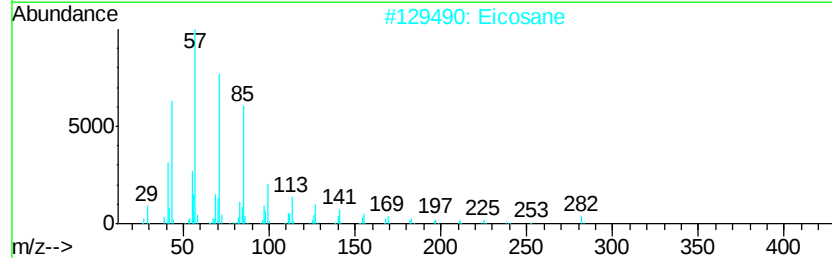
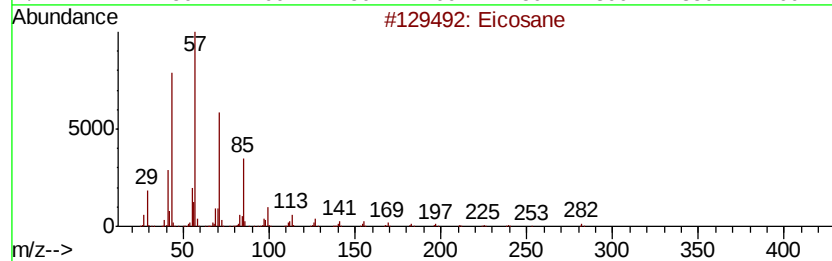
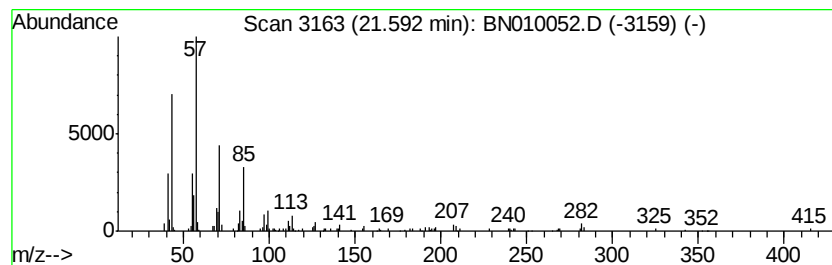
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 (DEL) Alkane: Straight-Chai... Concentration Rank 12

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 21.59 | 2.06 ng/ul | 187379 | Chrysene-d12     | 20.99 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Eicosane              | 282 | C20H42  | 000112-95-8 | 97   |
| 2    |    | Eicosane              | 282 | C20H42  | 000112-95-8 | 89   |
| 3    |    | Nonadecane, 9-methyl- | 282 | C20H42  | 013287-24-6 | 87   |
| 4    |    | Octacosane            | 394 | C28H58  | 000630-02-4 | 76   |
| 5    |    | Pentadecane           | 212 | C15H32  | 000629-62-9 | 72   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN030320\  
Data File : BN010052.D  
Acq On : 02 Mar 2020 22:27  
Operator : CG/JU  
Sample : L1619-07  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DBDW1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION

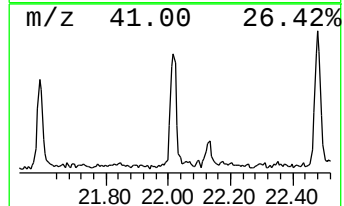
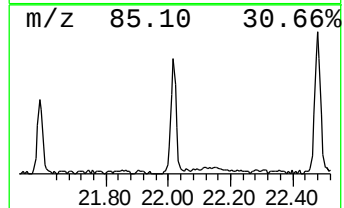
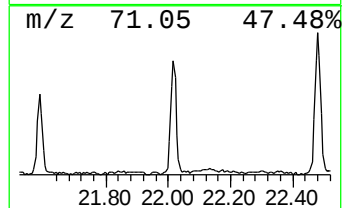
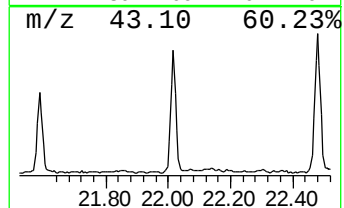
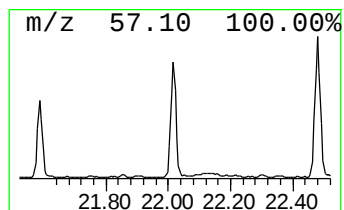
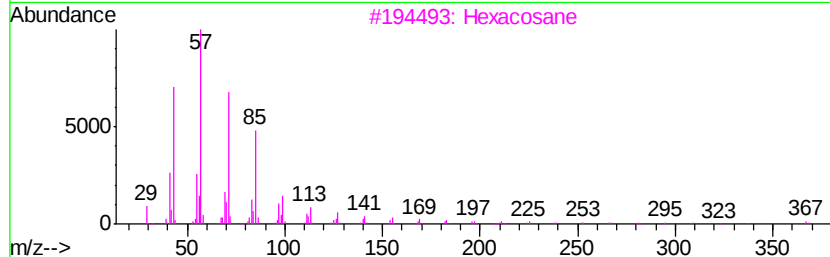
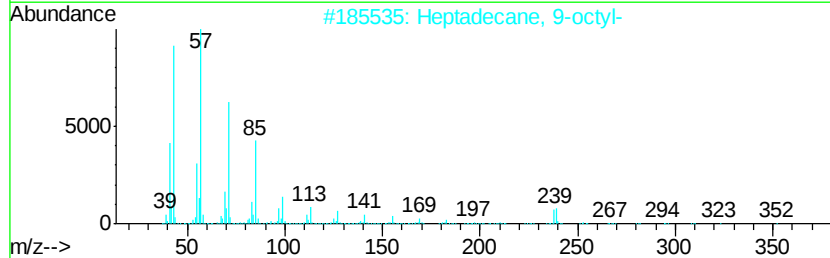
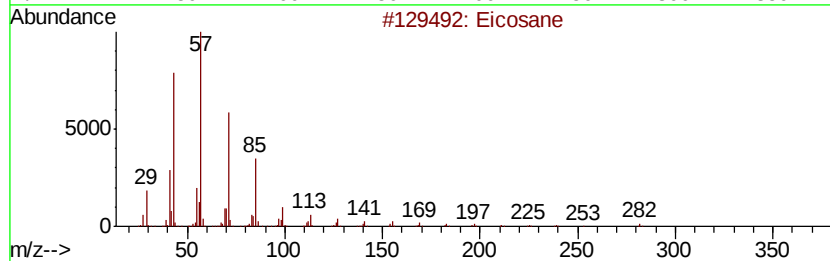
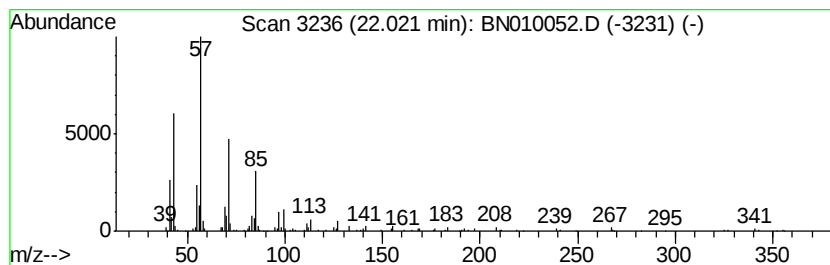
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 (DEL) Alkane: Straight-Chai... Concentration Rank 8

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 22.02 | 3.14 ng/ul | 285488 | Chrysene-d12     | 20.99 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Eicosane              | 282 | C20H42  | 000112-95-8 | 93   |
| 2    |    | Heptadecane, 9-octyl- | 352 | C25H52  | 007225-64-1 | 91   |
| 3    |    | Hexacosane            | 366 | C26H54  | 000630-01-3 | 90   |
| 4    |    | Pentacosane           | 352 | C25H52  | 000629-99-2 | 90   |
| 5    |    | Heptacosane           | 380 | C27H56  | 000593-49-7 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN030320\  
Data File : BN010052.D  
Acq On : 02 Mar 2020 22:27  
Operator : CG/JU  
Sample : L1619-07  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DBDW1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION

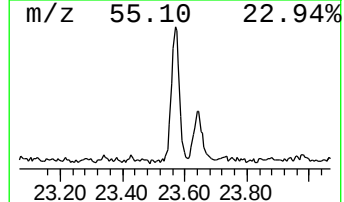
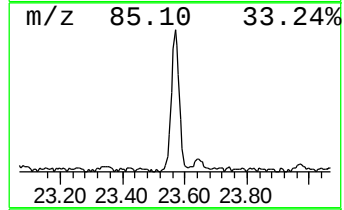
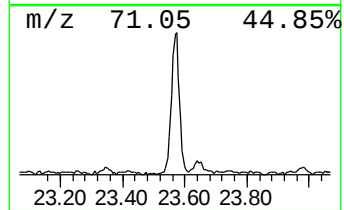
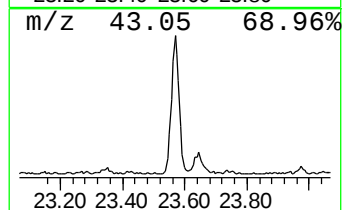
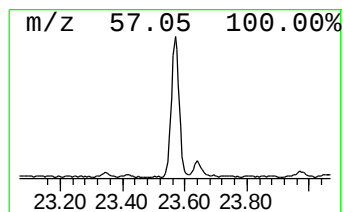
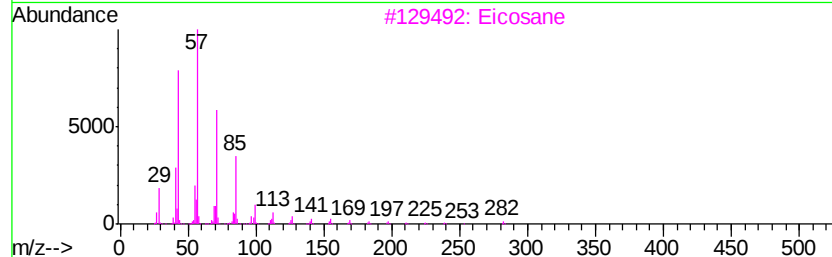
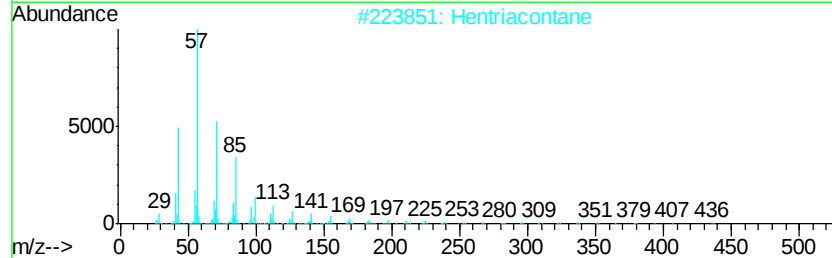
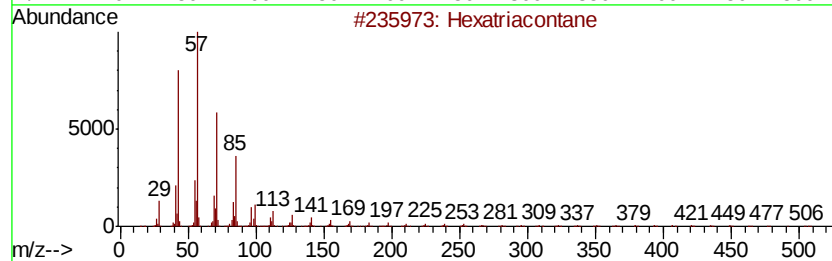
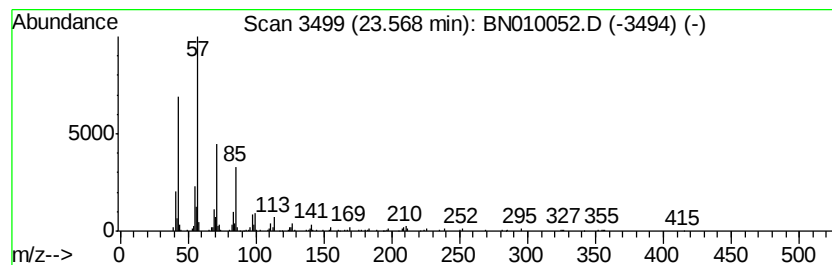
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 (DEL) Alkane: Straight-Chai... Concentration Rank 1

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 23.57 | 5.92 ng/ul | 439457 | Perylene-d12     | 23.08 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Hexatriacontane                     | 507 | C36H74    | 000630-06-8  | 90   |
| 2    |    | Hentriacontane                      | 437 | C31H64    | 000630-04-6  | 87   |
| 3    |    | Eicosane                            | 282 | C20H42    | 000112-95-8  | 87   |
| 4    |    | Docosane, 11-butyl-                 | 366 | C26H54    | 013475-76-8  | 87   |
| 5    |    | Sulfurous acid, butyl dodecyl ester | 306 | C16H34O3S | 1000309-17-9 | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN030320\  
Data File : BN010052.D  
Acq On : 02 Mar 2020 22:27  
Operator : CG/JU  
Sample : L1619-07  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DBDW1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION

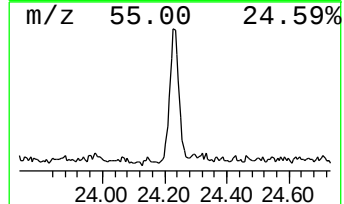
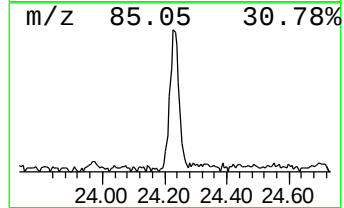
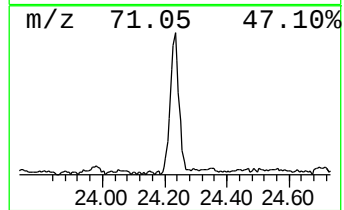
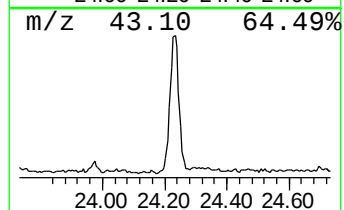
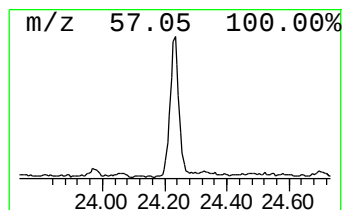
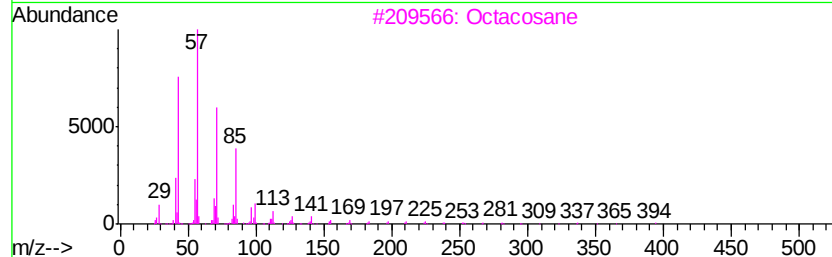
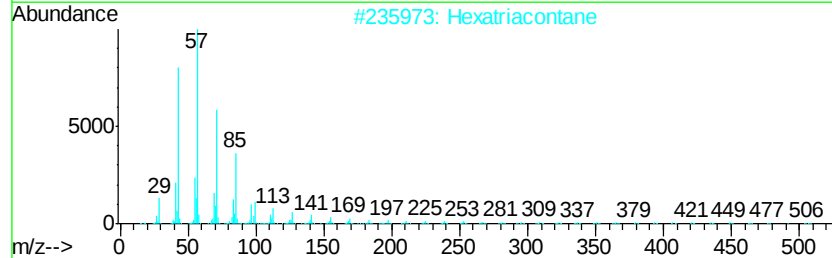
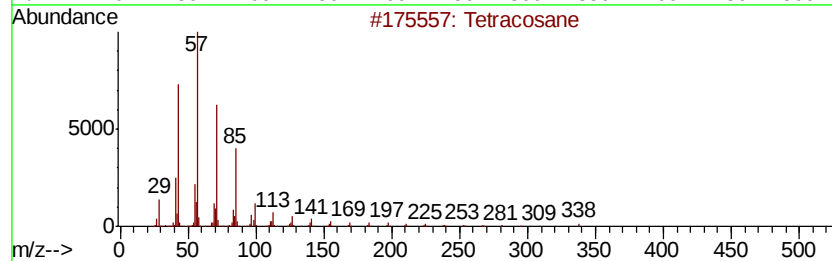
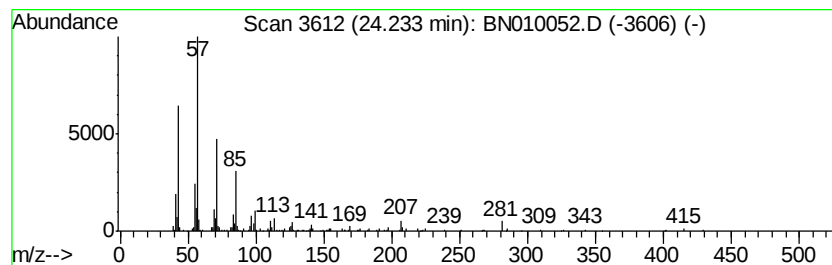
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 (DEL) Alkane: Straight-Chai... Concentration Rank 2

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 24.23 | 5.17 ng/ul | 383558 | Perylene-d12     | 23.08 |

| Hit# | of | Tentative ID      | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------|-----|---------|-------------|------|
| 1    | 5  | Tetracosane       | 338 | C24H50  | 000646-31-1 | 81   |
| 2    |    | Hexatriacontane   | 507 | C36H74  | 000630-06-8 | 81   |
| 3    |    | Octacosane        | 394 | C28H58  | 000630-02-4 | 81   |
| 4    |    | Tetratetracontane | 619 | C44H90  | 007098-22-8 | 74   |
| 5    |    | Eicosane          | 282 | C20H42  | 000112-95-8 | 74   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN030320\  
 Data File : BN010052.D  
 Acq On : 02 Mar 2020 22:27  
 Operator : CG/JU  
 Sample : L1619-07  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 DBDW1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.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... | 12.02 | 3.5     | ng/ul | 161106   | 2                     | 10.11 | 911815  | 20.0 |
| Naphthalene, 2,3-... | 13.32 | 2.2     | ng/ul | 143571   | 3                     | 14.01 | 1281760 | 20.0 |
| Dibenzofuran, 4-m... | 15.52 | 2.5     | ng/ul | 178476   | 4                     | 16.77 | 1422480 | 20.0 |
| Naphtho[2,1-b]thi... | 16.59 | 3.3     | ng/ul | 236421   | 4                     | 16.77 | 1422480 | 20.0 |
| Phenanthrene, 1-m... | 17.70 | 3.2     | ng/ul | 225729   | 4                     | 16.77 | 1422480 | 20.0 |
| 4H-Cyclopenta[def... | 17.84 | 5.0     | ng/ul | 352162   | 4                     | 16.77 | 1422480 | 20.0 |
| (DEL) Alkane: Cyc... | 20.73 | 4.8     | ng/ul | 439311   | 5                     | 20.99 | 1819260 | 20.0 |
| 2,2'-(Ethane-1,2-... | 20.79 | 2.5     | ng/ul | 225405   | 5                     | 20.99 | 1819260 | 20.0 |
| (DEL) Alkane: Str... | 21.59 | 2.1     | ng/ul | 187379   | 5                     | 20.99 | 1819260 | 20.0 |
| (DEL) Alkane: Str... | 22.02 | 3.1     | ng/ul | 285488   | 5                     | 20.99 | 1819260 | 20.0 |
| (DEL) Alkane: Str... | 23.57 | 5.9     | ng/ul | 439457   | 6                     | 23.08 | 1483680 | 20.0 |
| (DEL) Alkane: Str... | 24.23 | 5.2     | ng/ul | 383558   | 6                     | 23.08 | 1483680 | 20.0 |