

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN060519\  
 Data File : BN006132.D  
 Acq On : 06 Jun 2019 11:48  
 Operator : JU/SJ  
 Sample : K3016-26  
 Misc :  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A51H2

## 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-BN060419MA.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         | 3.152       | 24            | 28          | 30           | rBV      | 65964          | 80078         | 0.93%           | 0.038%        |
| 2         | 3.181       | 30            | 33          | 41           | rVB      | 272525         | 331306        | 3.83%           | 0.155%        |
| 3         | 3.422       | 72            | 74          | 81           | rVB2     | 21784          | 27826         | 0.32%           | 0.013%        |
| 4         | 3.599       | 100           | 104         | 110          | rBV      | 42849          | 52589         | 0.61%           | 0.025%        |
| 5         | 4.193       | 200           | 205         | 226          | rVB      | 3322396        | 4303168       | 49.73%          | 2.015%        |
| 6         | 4.781       | 299           | 305         | 318          | rBV      | 3247353        | 4322829       | 49.95%          | 2.025%        |
| 7         | 5.846       | 482           | 486         | 491          | rBV2     | 22710          | 31092         | 0.36%           | 0.015%        |
| 8         | 6.822       | 644           | 652         | 669          | rBV      | 1124665        | 1885139       | 21.78%          | 0.883%        |
| 9         | 6.981       | 673           | 679         | 689          | rVV      | 845091         | 1385409       | 16.01%          | 0.649%        |
| 10        | 7.075       | 689           | 695         | 706          | rVV      | 1359434        | 2012884       | 23.26%          | 0.943%        |
| 11        | 7.181       | 706           | 713         | 715          | rVV      | 1130702        | 1834987       | 21.20%          | 0.859%        |
| 12        | 7.210       | 715           | 718         | 736          | rVB      | 1471456        | 2227923       | 25.75%          | 1.043%        |
| 13        | 7.646       | 785           | 792         | 800          | rBV      | 1065783        | 1717905       | 19.85%          | 0.805%        |
| 14        | 7.710       | 800           | 803         | 812          | rVB2     | 22785          | 43118         | 0.50%           | 0.020%        |
| 15        | 8.181       | 873           | 883         | 888          | rBV2     | 825586         | 2047583       | 23.66%          | 0.959%        |
| 16        | 8.228       | 888           | 891         | 900          | rVB      | 95871          | 139201        | 1.61%           | 0.065%        |
| 17        | 8.357       | 906           | 913         | 922          | rBV      | 1325160        | 2207393       | 25.51%          | 1.034%        |
| 18        | 8.446       | 922           | 928         | 937          | rVB      | 841533         | 1281903       | 14.81%          | 0.600%        |
| 19        | 8.716       | 966           | 974         | 981          | rBV      | 1076986        | 1724241       | 19.92%          | 0.808%        |
| 20        | 8.799       | 981           | 988         | 992          | rBV      | 1014331        | 1733263       | 20.03%          | 0.812%        |
| 21        | 8.840       | 992           | 995         | 1013         | rVV      | 1172398        | 1927245       | 22.27%          | 0.903%        |
| 22        | 9.222       | 1054          | 1060        | 1065         | rBV      | 66158          | 91041         | 1.05%           | 0.043%        |
| 23        | 9.516       | 1103          | 1110        | 1128         | rBV      | 816106         | 1398165       | 16.16%          | 0.655%        |
| 24        | 9.851       | 1160          | 1167        | 1181         | rBV      | 1173806        | 1834227       | 21.20%          | 0.859%        |
| 25        | 10.057      | 1192          | 1202        | 1203         | rBV      | 1431612        | 2059906       | 23.80%          | 0.965%        |
| 26        | 10.081      | 1203          | 1206        | 1223         | rVV      | 1593103        | 2683680       | 31.01%          | 1.257%        |
| 27        | 10.428      | 1257          | 1265        | 1270         | rBV      | 1545142        | 2697220       | 31.17%          | 1.263%        |
| 28        | 10.481      | 1270          | 1274        | 1282         | rVV      | 1736713        | 2750469       | 31.78%          | 1.288%        |
| 29        | 10.569      | 1282          | 1289        | 1302         | rVV      | 1158959        | 2086052       | 24.11%          | 0.977%        |
| 30        | 10.763      | 1315          | 1322        | 1329         | rVB      | 1040014        | 1612743       | 18.64%          | 0.755%        |
| 31        | 11.963      | 1516          | 1526        | 1532         | rBV2     | 48035          | 90894         | 1.05%           | 0.043%        |
| 32        | 12.028      | 1532          | 1537        | 1545         | rVB3     | 17792          | 31520         | 0.36%           | 0.015%        |
| 33        | 12.234      | 1567          | 1572        | 1579         | rBV      | 129602         | 226359        | 2.62%           | 0.106%        |
| 34        | 12.322      | 1580          | 1587        | 1603         | rVB      | 2158188        | 3370413       | 38.95%          | 1.579%        |

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Integrator: RTE  
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 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-BN060419MA.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 12.457 | 1603 | 1610 | 1611 | rBV  | 752790  | 1097530 | 12.68% | 0.514% |
| 36 | 12.722 | 1648 | 1655 | 1661 | rBV  | 2207725 | 3377610 | 39.03% | 1.582% |
| 37 | 12.793 | 1661 | 1667 | 1681 | rVV  | 1350924 | 2206610 | 25.50% | 1.033% |
| 38 | 12.898 | 1681 | 1685 | 1690 | rVB4 | 16553   | 26004   | 0.30%  | 0.012% |
| 39 | 13.169 | 1719 | 1731 | 1744 | rBV  | 2093390 | 3581695 | 41.39% | 1.677% |
| 40 | 13.710 | 1817 | 1823 | 1827 | rBV  | 2161100 | 3056486 | 35.32% | 1.431% |
| 41 | 13.757 | 1827 | 1831 | 1840 | rVB  | 2572962 | 3647134 | 42.15% | 1.708% |
| 42 | 13.881 | 1847 | 1852 | 1861 | rBV  | 829495  | 1164424 | 13.46% | 0.545% |
| 43 | 13.992 | 1862 | 1871 | 1874 | rVV  | 2741159 | 4420398 | 51.08% | 2.070% |
| 44 | 14.022 | 1874 | 1876 | 1886 | rVB  | 1956051 | 2232364 | 25.80% | 1.046% |
| 45 | 14.304 | 1917 | 1924 | 1929 | rBV2 | 2077797 | 3156081 | 36.47% | 1.478% |
| 46 | 14.363 | 1929 | 1934 | 1943 | rVV  | 2022555 | 2931745 | 33.88% | 1.373% |
| 47 | 14.510 | 1953 | 1959 | 1966 | rBV  | 725121  | 1234105 | 14.26% | 0.578% |
| 48 | 14.581 | 1966 | 1971 | 1982 | rVV  | 1365423 | 2064560 | 23.86% | 0.967% |
| 49 | 14.704 | 1982 | 1992 | 2010 | rVB2 | 1931430 | 3765265 | 43.51% | 1.763% |
| 50 | 15.134 | 2057 | 2065 | 2075 | rBV  | 2136601 | 2769571 | 32.00% | 1.297% |
| 51 | 15.298 | 2087 | 2093 | 2098 | rBV  | 3226557 | 4520085 | 52.23% | 2.117% |
| 52 | 15.351 | 2098 | 2102 | 2110 | rVV  | 3203451 | 4781379 | 55.25% | 2.239% |
| 53 | 15.428 | 2110 | 2115 | 2130 | rVV2 | 738049  | 1208717 | 13.97% | 0.566% |
| 54 | 15.539 | 2130 | 2134 | 2139 | rVV  | 47001   | 84856   | 0.98%  | 0.040% |
| 55 | 16.028 | 2213 | 2217 | 2220 | rBV4 | 20520   | 31759   | 0.37%  | 0.015% |
| 56 | 16.245 | 2249 | 2254 | 2264 | rVV  | 1421616 | 2027655 | 23.43% | 0.950% |
| 57 | 16.363 | 2269 | 2274 | 2283 | rVB  | 1098931 | 1473944 | 17.03% | 0.690% |
| 58 | 16.710 | 2327 | 2333 | 2347 | rBV  | 1456620 | 2105876 | 24.34% | 0.986% |
| 59 | 17.057 | 2385 | 2392 | 2403 | rBV2 | 2465064 | 3581267 | 41.38% | 1.677% |
| 60 | 17.157 | 2403 | 2409 | 2412 | rVV2 | 3203038 | 5086727 | 58.78% | 2.382% |
| 61 | 17.192 | 2412 | 2415 | 2432 | rVB  | 3668617 | 5089733 | 58.82% | 2.384% |
| 62 | 17.351 | 2437 | 2442 | 2449 | rVB2 | 25442   | 52033   | 0.60%  | 0.024% |
| 63 | 17.463 | 2455 | 2461 | 2475 | rBV  | 3001808 | 4541563 | 52.48% | 2.127% |
| 64 | 17.963 | 2541 | 2546 | 2551 | rBV  | 377004  | 569340  | 6.58%  | 0.267% |
| 65 | 18.033 | 2551 | 2558 | 2571 | rVB  | 3236039 | 4155754 | 48.02% | 1.946% |
| 66 | 18.263 | 2593 | 2597 | 2600 | rBV2 | 29991   | 40764   | 0.47%  | 0.019% |
| 67 | 18.392 | 2616 | 2619 | 2624 | rVB4 | 22188   | 27662   | 0.32%  | 0.013% |
| 68 | 18.486 | 2630 | 2635 | 2645 | rBV  | 94907   | 169538  | 1.96%  | 0.079% |
| 69 | 18.833 | 2689 | 2694 | 2703 | rBV  | 752709  | 1305098 | 15.08% | 0.611% |
| 70 | 18.904 | 2703 | 2706 | 2711 | rVB4 | 78222   | 127253  | 1.47%  | 0.060% |
| 71 | 19.098 | 2735 | 2739 | 2742 | rBV  | 37464   | 56813   | 0.66%  | 0.027% |

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Filtering: 5  
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 Peak Location: TOP

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Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN060419MA.M  
 Title : SVOA CALIBRATION

|     |        |      |      |      |      |         |         |         |        |
|-----|--------|------|------|------|------|---------|---------|---------|--------|
| 72  | 19.157 | 2745 | 2749 | 2754 | rVB  | 193355  | 222954  | 2.58%   | 0.104% |
| 73  | 19.257 | 2762 | 2766 | 2774 | rBV4 | 100243  | 180855  | 2.09%   | 0.085% |
| 74  | 19.351 | 2778 | 2782 | 2786 | rBV  | 35468   | 54417   | 0.63%   | 0.025% |
| 75  | 19.410 | 2789 | 2792 | 2795 | rVB5 | 24598   | 28521   | 0.33%   | 0.013% |
| 76  | 19.469 | 2796 | 2802 | 2811 | rBV  | 4016476 | 5620961 | 64.95%  | 2.633% |
| 77  | 19.616 | 2822 | 2827 | 2832 | rVB8 | 47115   | 80108   | 0.93%   | 0.038% |
| 78  | 20.027 | 2889 | 2897 | 2902 | rBV  | 205395  | 372676  | 4.31%   | 0.175% |
| 79  | 20.333 | 2947 | 2949 | 2951 | rBV3 | 25920   | 30179   | 0.35%   | 0.014% |
| 80  | 20.416 | 2958 | 2963 | 2970 | rBV  | 4165110 | 4589473 | 53.04%  | 2.149% |
| 81  | 20.533 | 2979 | 2983 | 2987 | rBV  | 187375  | 216820  | 2.51%   | 0.102% |
| 82  | 21.010 | 3059 | 3064 | 3084 | rBV  | 1049555 | 1841277 | 21.28%  | 0.862% |
| 83  | 21.216 | 3094 | 3099 | 3104 | rBV  | 3194481 | 3525301 | 40.74%  | 1.651% |
| 84  | 21.280 | 3104 | 3110 | 3128 | rVV2 | 4355111 | 8653667 | 100.00% | 4.053% |
| 85  | 21.463 | 3137 | 3141 | 3149 | rBV  | 908586  | 1002969 | 11.59%  | 0.470% |
| 86  | 21.904 | 3212 | 3216 | 3230 | rBV  | 1777432 | 2256493 | 26.08%  | 1.057% |
| 87  | 22.074 | 3242 | 3245 | 3247 | rVB  | 74544   | 78251   | 0.90%   | 0.037% |
| 88  | 22.116 | 3247 | 3252 | 3258 | rVB  | 5538051 | 6618219 | 76.48%  | 3.100% |
| 89  | 22.374 | 3291 | 3296 | 3304 | rVB  | 2597032 | 3427426 | 39.61%  | 1.605% |
| 90  | 22.498 | 3313 | 3317 | 3323 | rVB  | 418379  | 536898  | 6.20%   | 0.251% |
| 91  | 22.880 | 3376 | 3382 | 3386 | rBV  | 4335806 | 6841561 | 79.06%  | 3.204% |
| 92  | 22.927 | 3386 | 3390 | 3402 | rVB  | 4142182 | 6663532 | 77.00%  | 3.121% |
| 93  | 23.410 | 3465 | 3472 | 3476 | rBV2 | 2894632 | 5758839 | 66.55%  | 2.697% |
| 94  | 23.451 | 3476 | 3479 | 3488 | rVV  | 2782684 | 4210093 | 48.65%  | 1.972% |
| 95  | 23.551 | 3489 | 3496 | 3505 | rVB2 | 1962957 | 3856435 | 44.56%  | 1.806% |
| 96  | 24.092 | 3581 | 3588 | 3596 | rBV  | 2057367 | 3937656 | 45.50%  | 1.844% |
| 97  | 24.833 | 3707 | 3714 | 3731 | rVB  | 1212305 | 2655235 | 30.68%  | 1.244% |
| 98  | 25.698 | 3854 | 3861 | 3877 | rVB  | 529609  | 1359854 | 15.71%  | 0.637% |
| 99  | 26.480 | 3985 | 3994 | 4011 | rVB  | 1354221 | 4193958 | 48.46%  | 1.964% |
| 100 | 26.715 | 4030 | 4034 | 4044 | rVB2 | 284118  | 683179  | 7.89%   | 0.320% |

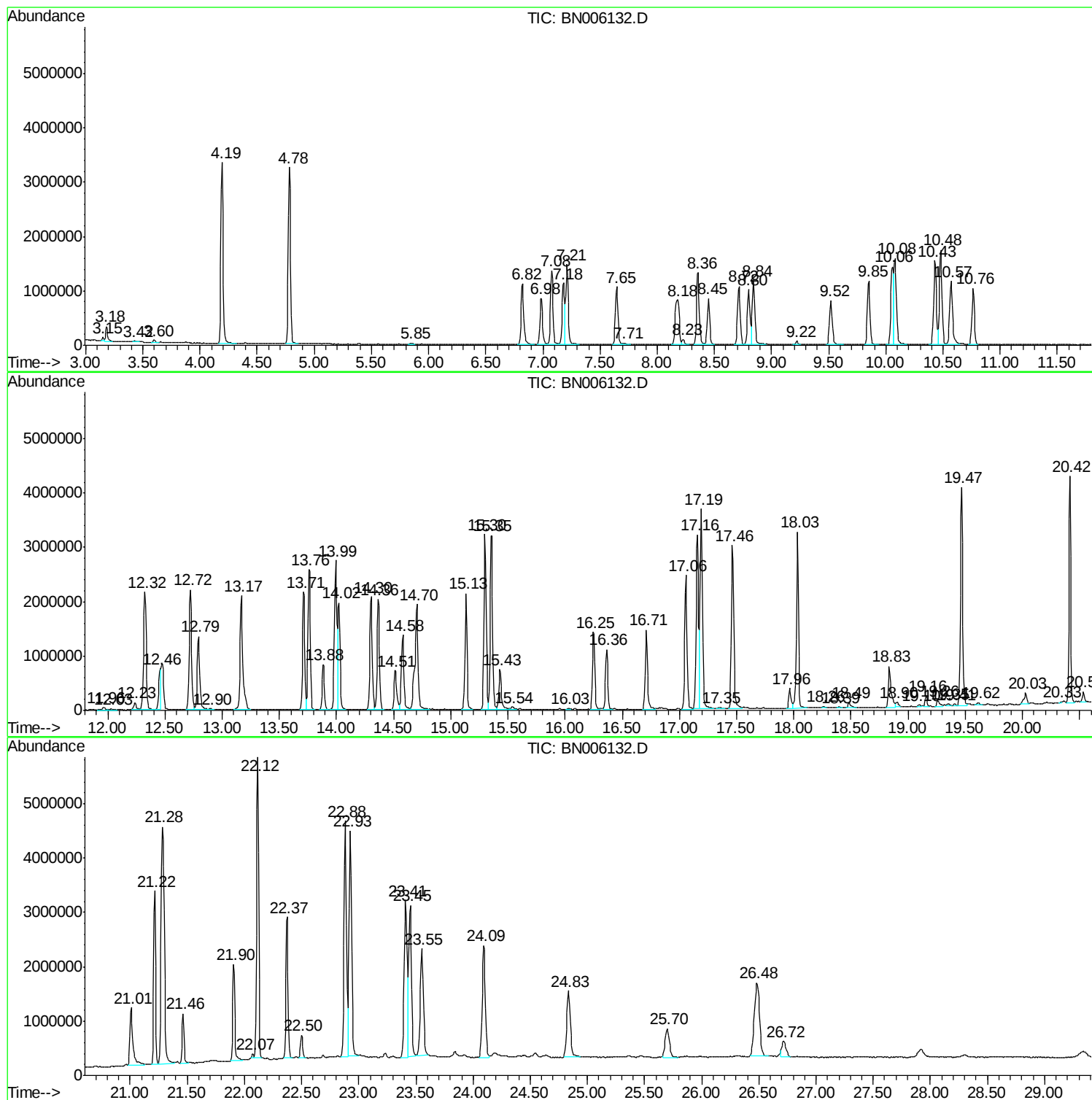
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN060419MA.M  
Quant Title : SVOA CALIBRATION

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



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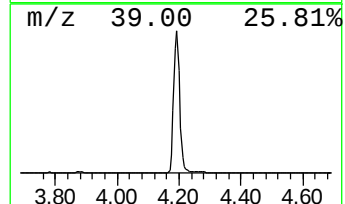
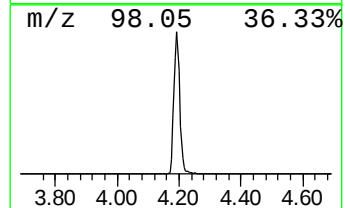
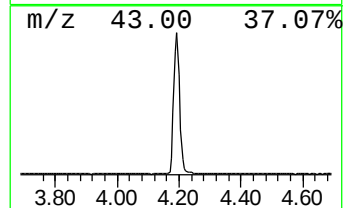
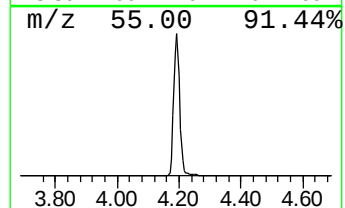
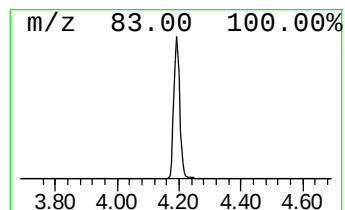
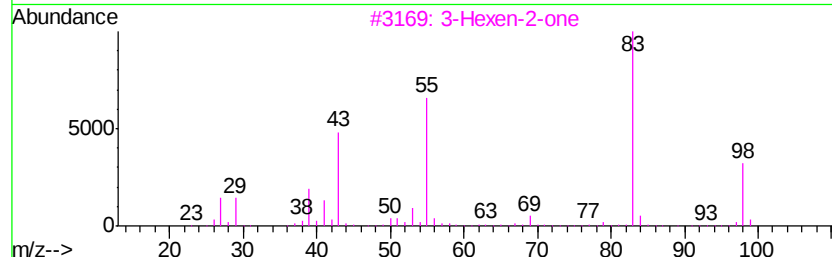
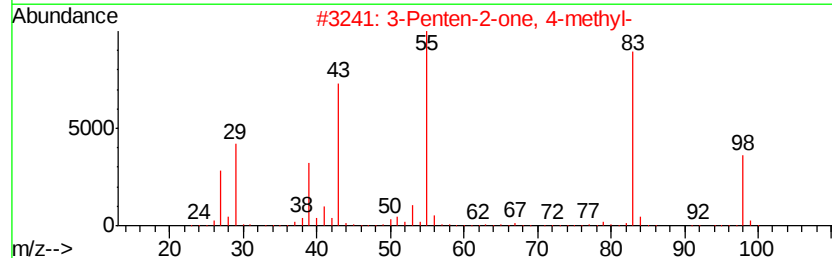
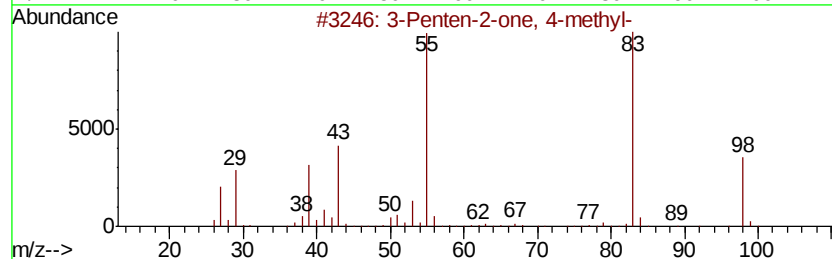
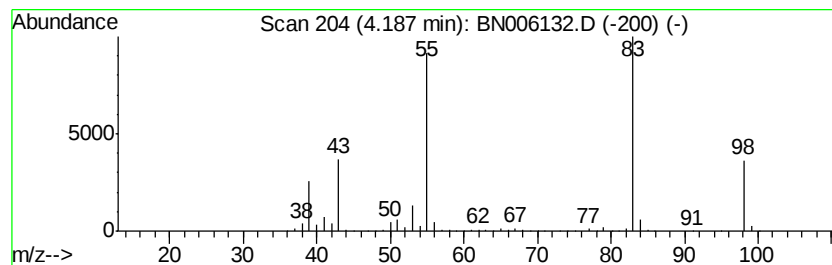
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN060419MA.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 1 3-Penten-2-one, 4-methyl- Concentration Rank 2

| R.T. | EstConc     | Area    | Relative to ISTD       | R.T. |
|------|-------------|---------|------------------------|------|
| 4.19 | 50.10 ng/ul | 4303170 | 1,4-Dichlorobenzene-d4 | 7.65 |

| Hit# | of | Tentative ID                   | MW | MolForm | CAS#        | Qual |
|------|----|--------------------------------|----|---------|-------------|------|
| 1    | 5  | 3-Penten-2-one, 4-methyl-      | 98 | C6H10O  | 000141-79-7 | 91   |
| 2    |    | 3-Penten-2-one, 4-methyl-      | 98 | C6H10O  | 000141-79-7 | 91   |
| 3    |    | 3-Hexen-2-one                  | 98 | C6H10O  | 000763-93-9 | 91   |
| 4    |    | 2-Pentene, 3,4-dimethyl-, (E)- | 98 | C7H14   | 004914-92-5 | 90   |
| 5    |    | 2-Pentene, 3,4-dimethyl-, (Z)- | 98 | C7H14   | 004914-91-4 | 86   |



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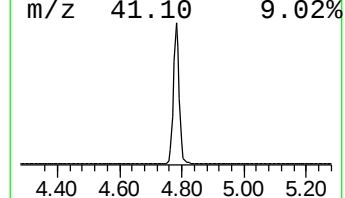
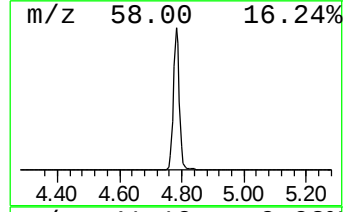
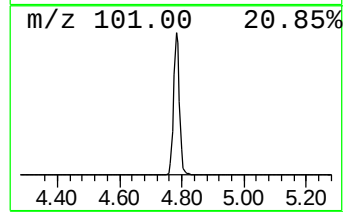
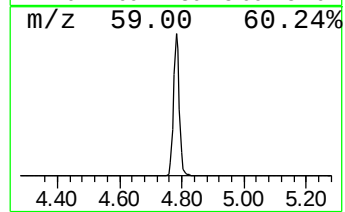
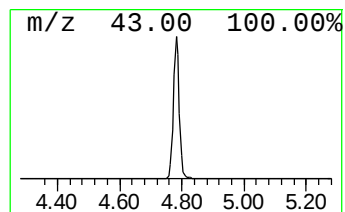
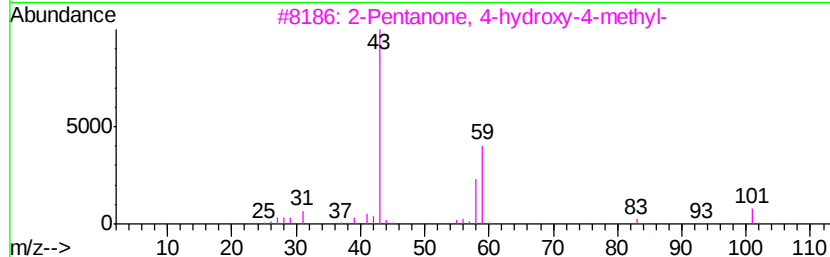
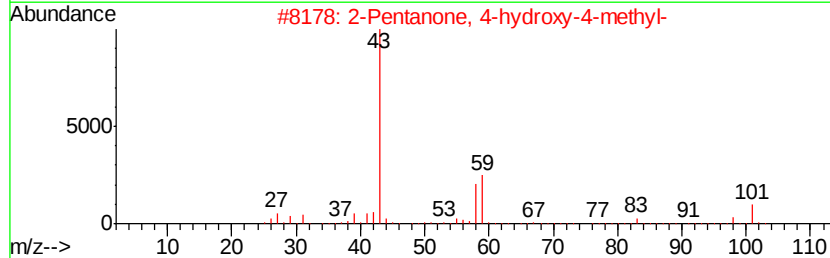
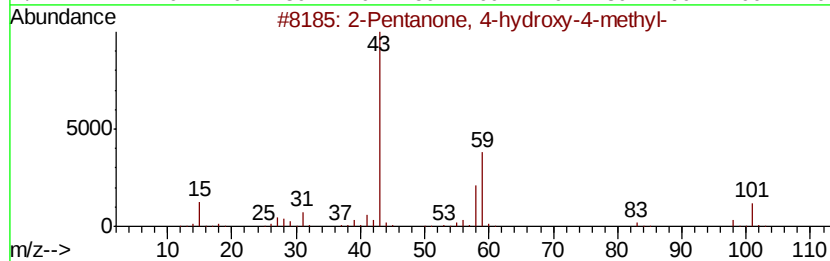
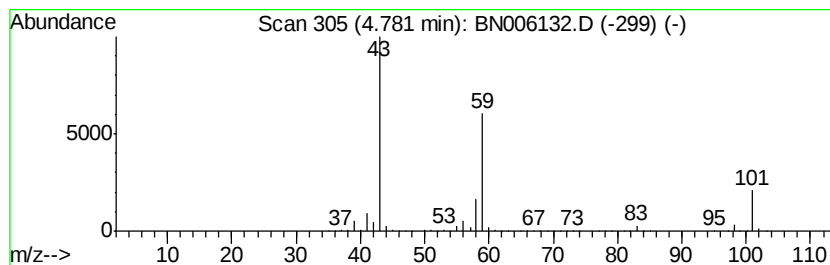
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

| R.T. | EstConc     | Area    | Relative to ISTD       | R.T. |
|------|-------------|---------|------------------------|------|
| 4.78 | 50.33 ng/ul | 4322830 | 1,4-Dichlorobenzene-d4 | 7.65 |

| Hit# | of | Tentative ID                         | MW  | MolForm  | CAS#        | Qual |
|------|----|--------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl-     | 116 | C6H12O2  | 000123-42-2 | 72   |
| 2    |    | 2-Pentanone, 4-hydroxy-4-methyl-     | 116 | C6H12O2  | 000123-42-2 | 50   |
| 3    |    | 2-Pentanone, 4-hydroxy-4-methyl-     | 116 | C6H12O2  | 000123-42-2 | 40   |
| 4    |    | Acetic acid, cyano-, 1,1-dimethyl... | 141 | C7H11NO2 | 001116-98-9 | 25   |
| 5    |    | Butane, 1-ethoxy-                    | 102 | C6H14O   | 000628-81-9 | 9    |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN060519\  
Data File : BN006132.D  
Acq On : 06 Jun 2019 11:48  
Operator : JU/SJ  
Sample : K3016-26  
Misc :  
ALS Vial : 41 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A51H2

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Quant Title : SVOA CALIBRATION

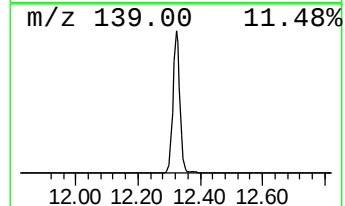
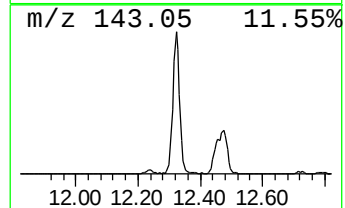
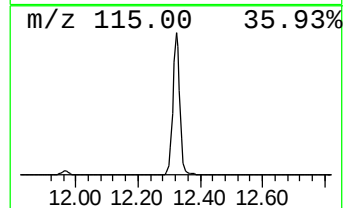
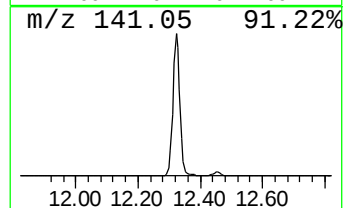
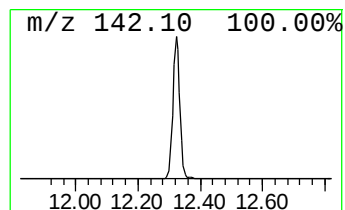
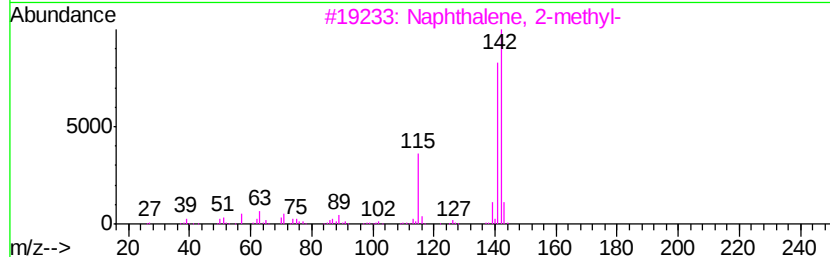
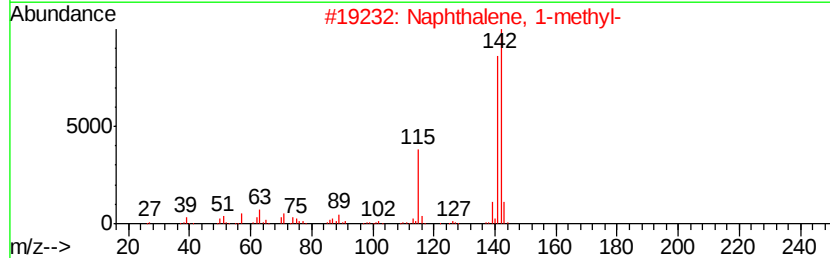
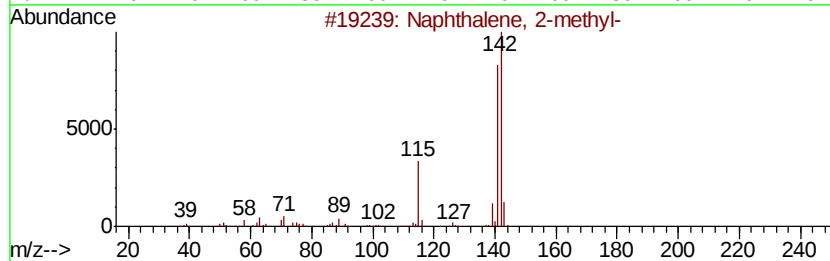
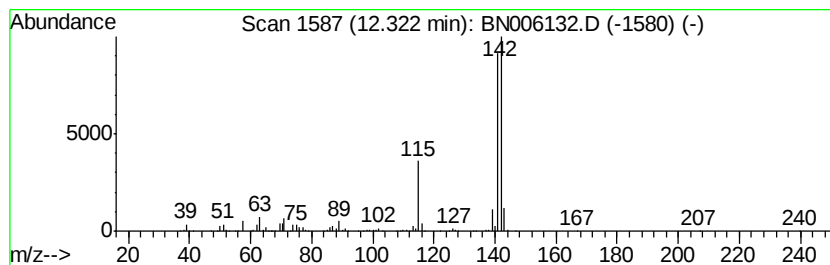
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Naphthalene, 1-methyl- Concentration Rank 3

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 12.32 | 24.99 ng/ul | 3370410 | Naphthalene-d8   | 10.43 |

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN060519\  
Data File : BN006132.D  
Acq On : 06 Jun 2019 11:48  
Operator : JU/SJ  
Sample : K3016-26  
Misc :  
ALS Vial : 41 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A51H2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN060419MA.M  
Quant Title : SVOA CALIBRATION

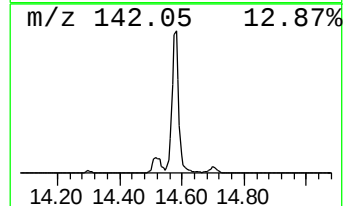
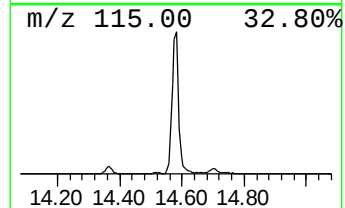
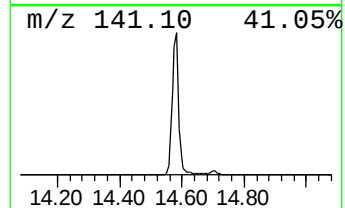
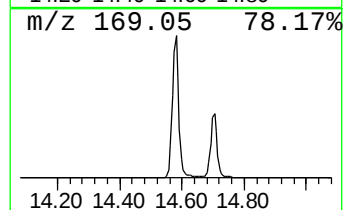
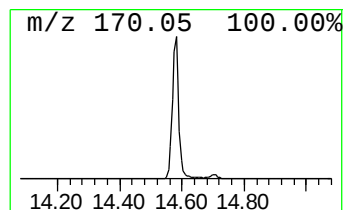
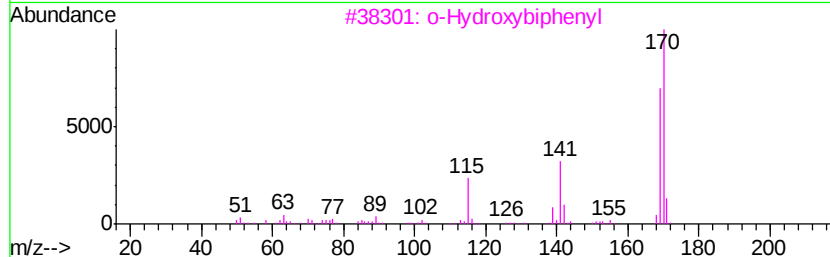
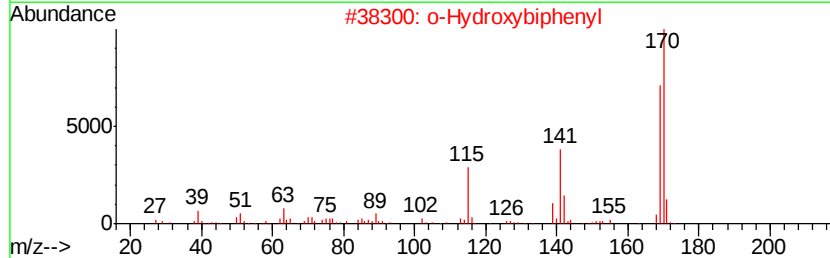
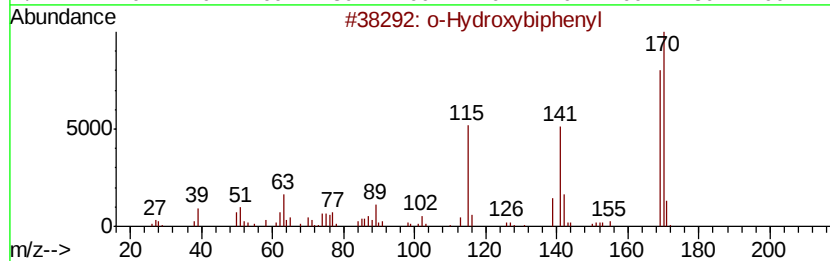
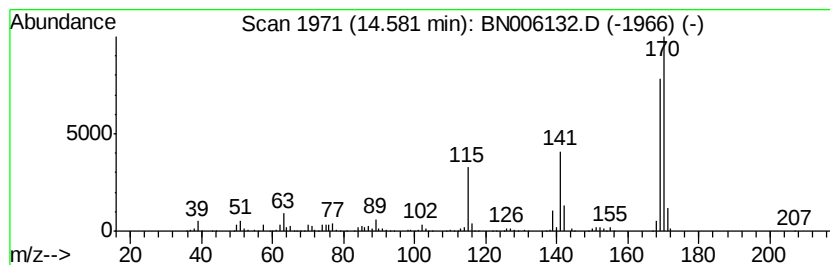
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 o-Hydroxybiphenyl Concentration Rank 6

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 14.58 | 13.08 ng/ul | 2064560 | Acenaphthene-d10 | 14.30 |

| Hit# | of | Tentative ID      | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------|-----|---------|-------------|------|
| 1    | 5  | o-Hydroxybiphenyl | 170 | C12H10O | 000090-43-7 | 97   |
| 2    |    | o-Hydroxybiphenyl | 170 | C12H10O | 000090-43-7 | 96   |
| 3    |    | o-Hydroxybiphenyl | 170 | C12H10O | 000090-43-7 | 96   |
| 4    |    | o-Hydroxybiphenyl | 170 | C12H10O | 000090-43-7 | 94   |
| 5    |    | o-Hydroxybiphenyl | 170 | C12H10O | 000090-43-7 | 94   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN060519\  
Data File : BN006132.D  
Acq On : 06 Jun 2019 11:48  
Operator : JU/SJ  
Sample : K3016-26  
Misc :  
ALS Vial : 41 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A51H2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN060419MA.M  
Quant Title : SVOA CALIBRATION

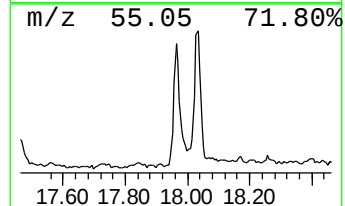
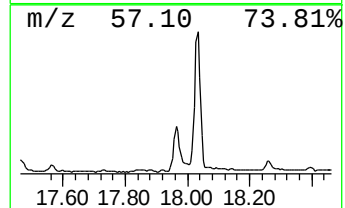
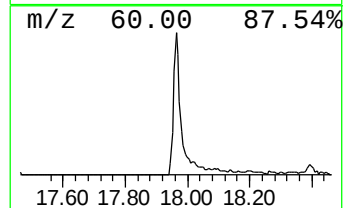
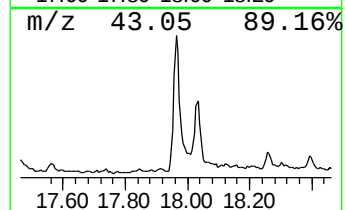
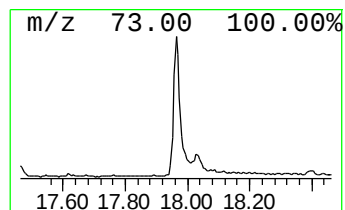
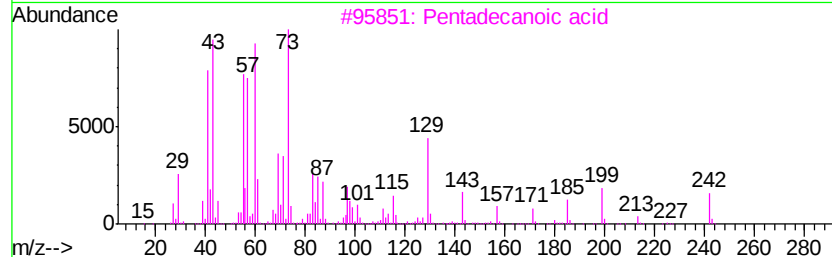
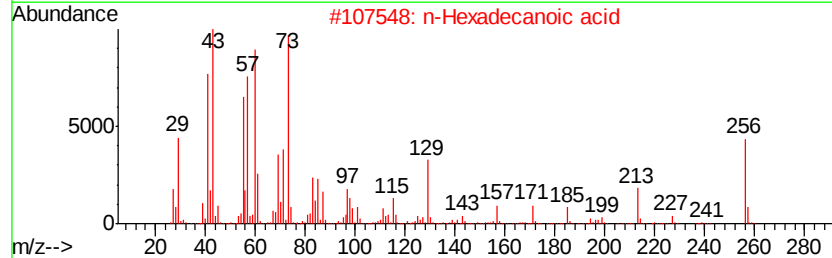
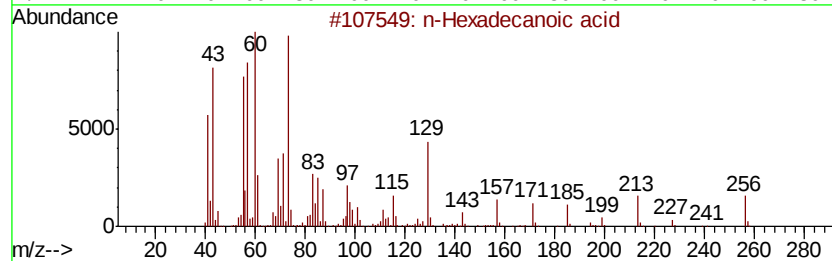
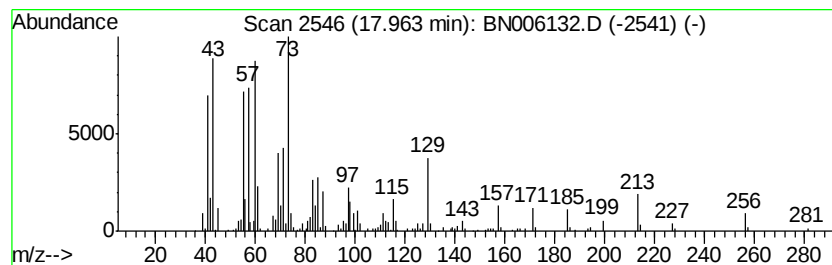
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 n-Hexadecanoic acid Concentration Rank 13

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 17.96 | 3.18 ng/ul | 569340 | Phenanthrene-d10 | 17.06 |

| Hit# of | 5 | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|---------|---|---------------------|-----|----------|-------------|------|
| 1       |   | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99   |
| 2       |   | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99   |
| 3       |   | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 94   |
| 4       |   | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 93   |
| 5       |   | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN060519\  
Data File : BN006132.D  
Acq On : 06 Jun 2019 11:48  
Operator : JU/SJ  
Sample : K3016-26  
Misc :  
ALS Vial : 41 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A51H2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN060419MA.M  
Quant Title : SVOA CALIBRATION

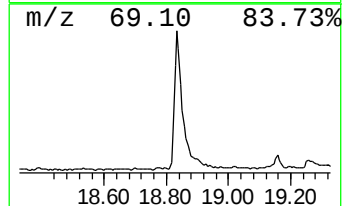
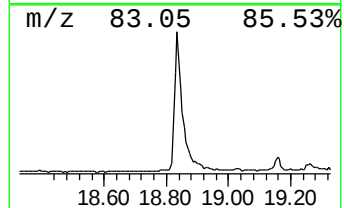
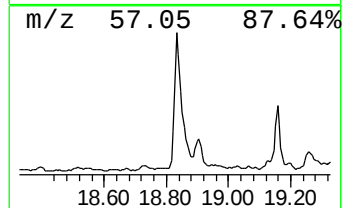
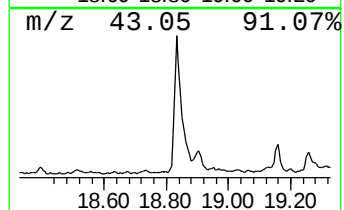
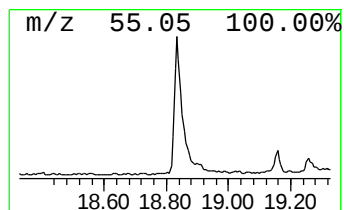
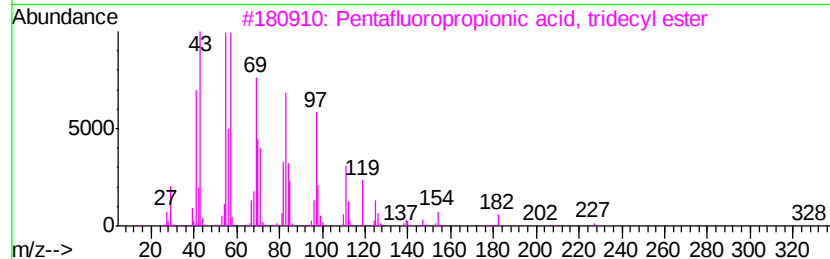
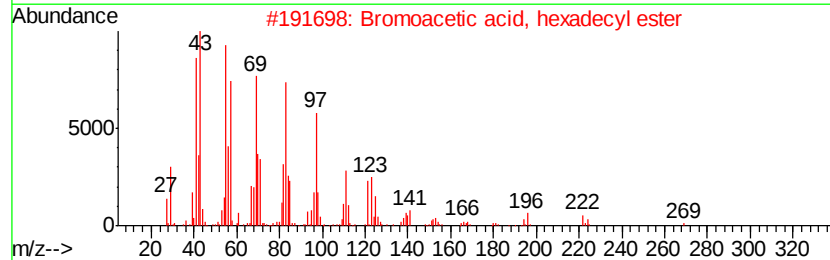
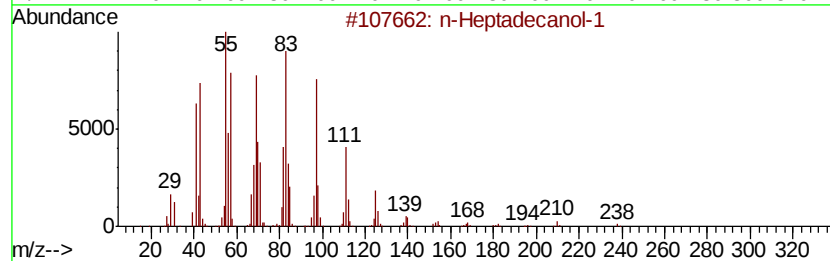
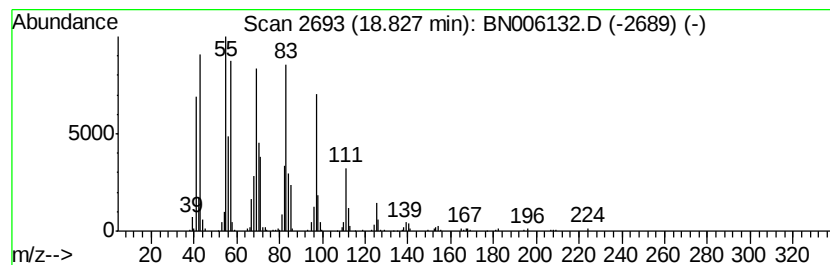
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 n-Heptadecanol-1 Concentration Rank 8

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 18.83 | 7.29 ng/ul | 1305100 | Phenanthrene-d10 | 17.06 |

| Hit# | of | Tentative ID                              | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------------|-----|------------|--------------|------|
| 1    | 5  | n-Heptadecanol-1                          | 256 | C17H36O    | 001454-85-9  | 94   |
| 2    |    | Bromoacetic acid, hexadecyl ester         | 362 | C18H35BrO2 | 005454-48-8  | 94   |
| 3    |    | Pentafluoropropionic acid, tridecyl ester | 346 | C16H27F5O2 | 959261-22-4  | 93   |
| 4    |    | 3-Eicosene, (E)-                          | 280 | C20H40     | 074685-33-9  | 91   |
| 5    |    | 4-Heptafluorobutyryloxyhexadecane         | 438 | C20H33F7O2 | 1000282-97-2 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN060519\  
Data File : BN006132.D  
Acq On : 06 Jun 2019 11:48  
Operator : JU/SJ  
Sample : K3016-26  
Misc :  
ALS Vial : 41 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A51H2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN060419MA.M  
Quant Title : SVOA CALIBRATION

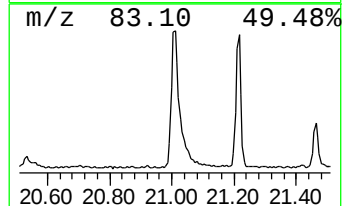
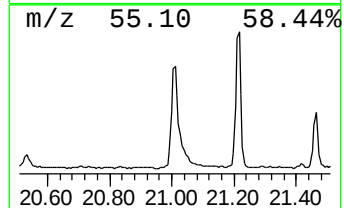
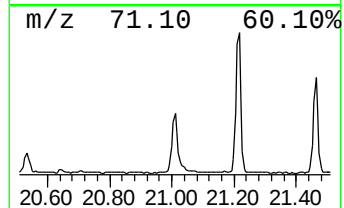
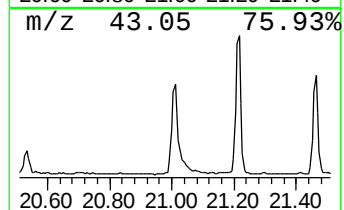
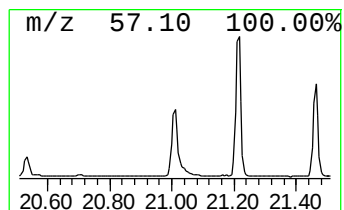
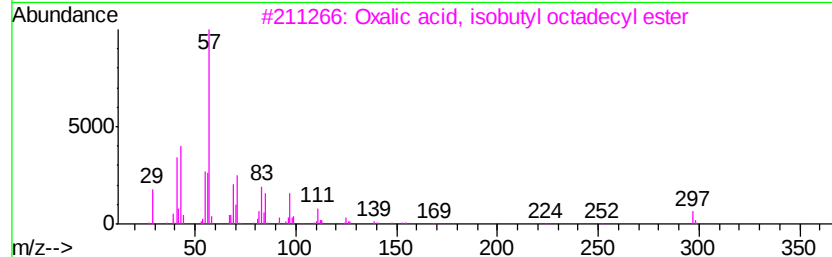
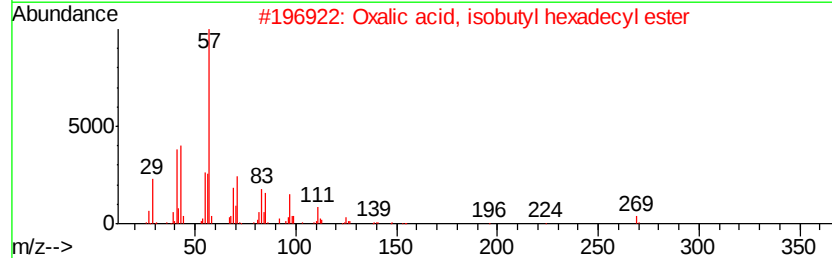
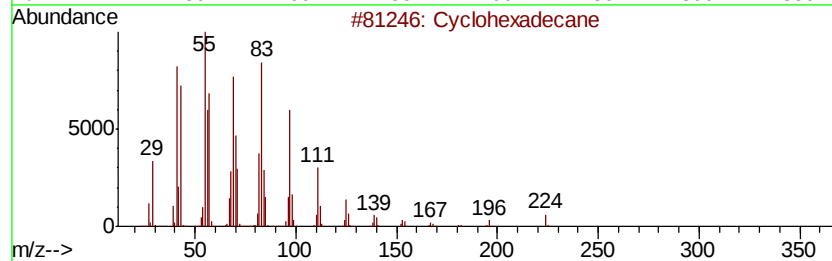
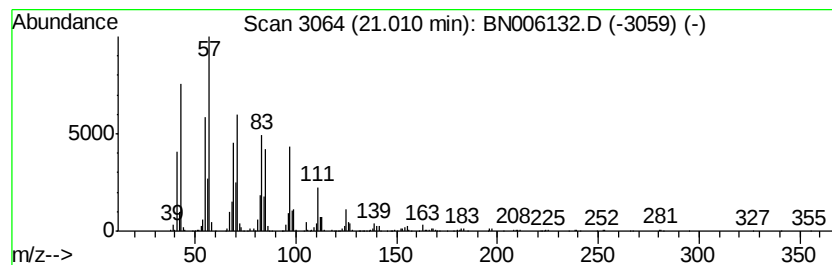
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 (DEL) Alkane: Cyclic21.01 Concentration Rank 11

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 21.01 | 4.26 ng/ul | 1841280 | Chrysene-d12     | 21.29 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | Cyclohexadecane                     | 224 | C16H32     | 000295-65-8  | 96   |
| 2    |    | Oxalic acid, isobutyl hexadecyl ... | 370 | C22H42O4   | 1000309-38-1 | 91   |
| 3    |    | Oxalic acid, isobutyl octadecyl ... | 398 | C24H46O4   | 1000309-38-3 | 91   |
| 4    |    | Ethanol, 2-(tetradecyloxy)-         | 258 | C16H34O2   | 002136-70-1  | 90   |
| 5    |    | Docosyl pentafluoropropionate       | 472 | C25H45F5O2 | 1000351-80-9 | 83   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN060519\  
Data File : BN006132.D  
Acq On : 06 Jun 2019 11:48  
Operator : JU/SJ  
Sample : K3016-26  
Misc :  
ALS Vial : 41 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A51H2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN060419MA.M  
Quant Title : SVOA CALIBRATION

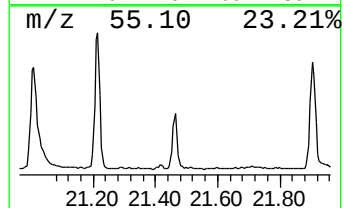
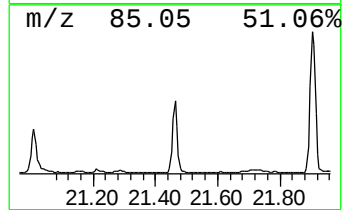
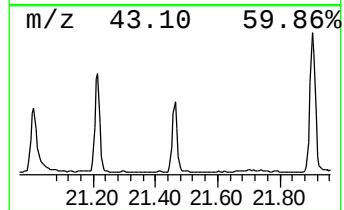
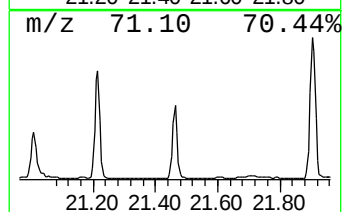
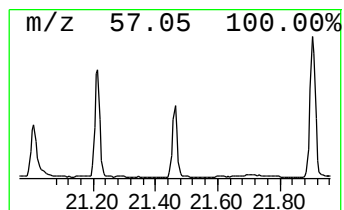
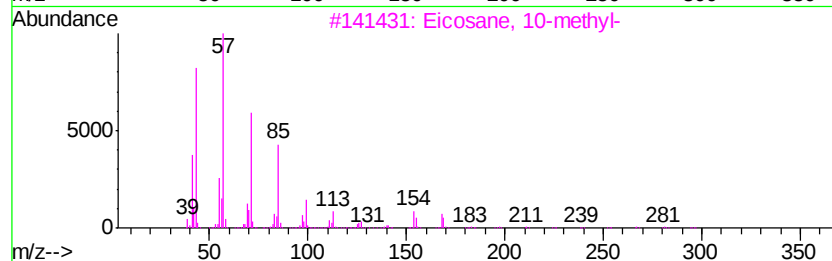
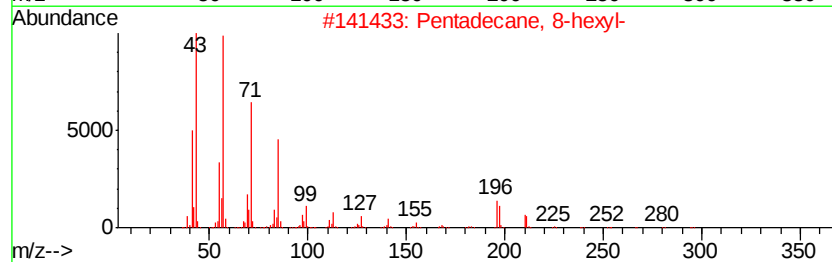
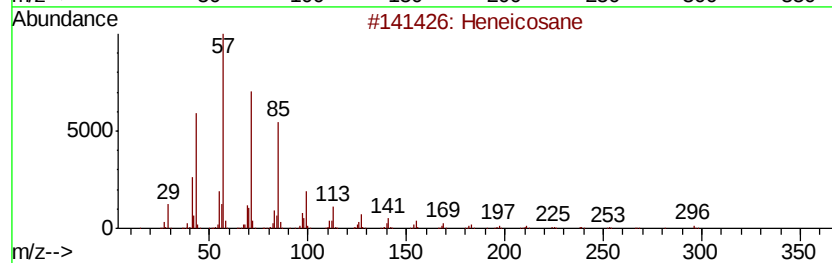
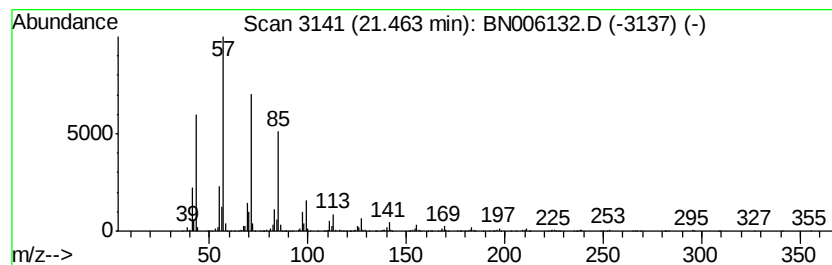
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 (DEL) Alkane: Straight-Chai... Concentration Rank 15

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 21.46 | 2.32 ng/ul | 1002970 | Chrysene-d12     | 21.29 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#         | Qual |
|------|----|-----------------------|-----|---------|--------------|------|
| 1    | 5  | Heneicosane           | 296 | C21H44  | 000629-94-7  | 98   |
| 2    |    | Pentadecane, 8-hexyl- | 296 | C21H44  | 013475-75-7  | 94   |
| 3    |    | Eicosane, 10-methyl-  | 296 | C21H44  | 054833-23-7  | 94   |
| 4    |    | Octacosane            | 394 | C28H58  | 000630-02-4  | 91   |
| 5    |    | 2-methyloctacosane    | 408 | C29H60  | 1000376-72-8 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN060519\  
Data File : BN006132.D  
Acq On : 06 Jun 2019 11:48  
Operator : JU/SJ  
Sample : K3016-26  
Misc :  
ALS Vial : 41 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A51H2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN060419MA.M  
Quant Title : SVOA CALIBRATION

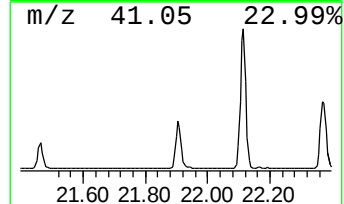
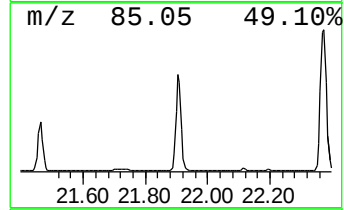
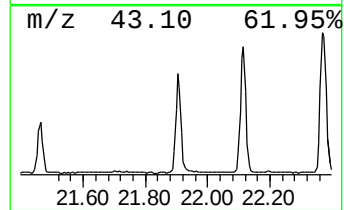
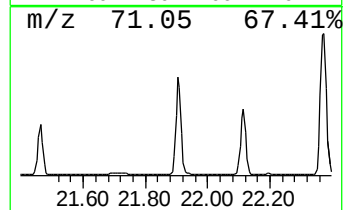
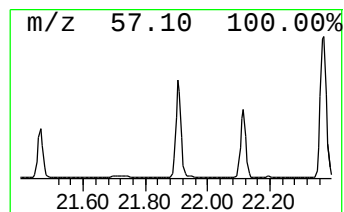
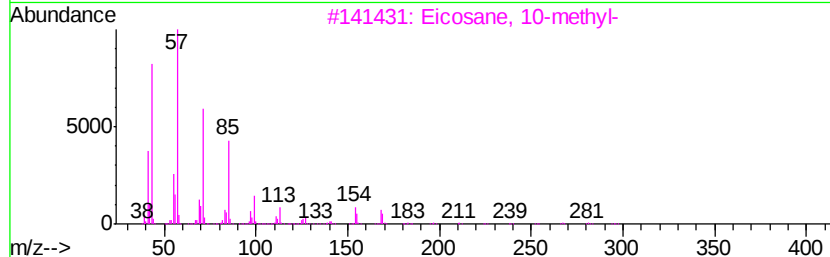
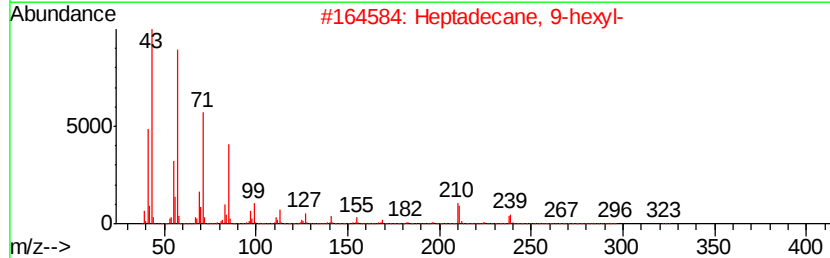
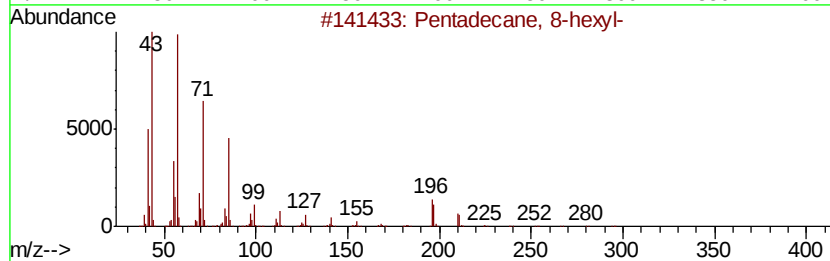
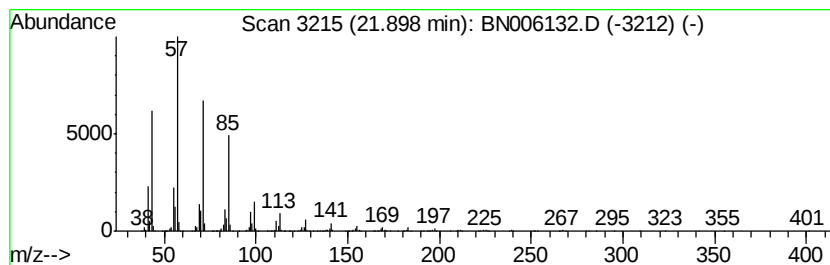
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 (DEL) Alkane: Straight-Chai... Concentration Rank 10

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 21.90 | 5.22 ng/ul | 2256490 | Chrysene-d12     | 21.29 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Pentadecane, 8-hexyl- | 296 | C21H44  | 013475-75-7 | 94   |
| 2    |    | Heptadecane, 9-hexyl- | 324 | C23H48  | 055124-79-3 | 94   |
| 3    |    | Eicosane, 10-methyl-  | 296 | C21H44  | 054833-23-7 | 94   |
| 4    |    | Triacontane           | 422 | C30H62  | 000638-68-6 | 91   |
| 5    |    | Octacosane            | 394 | C28H58  | 000630-02-4 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN060519\  
Data File : BN006132.D  
Acq On : 06 Jun 2019 11:48  
Operator : JU/SJ  
Sample : K3016-26  
Misc :  
ALS Vial : 41 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A51H2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN060419MA.M  
Quant Title : SVOA CALIBRATION

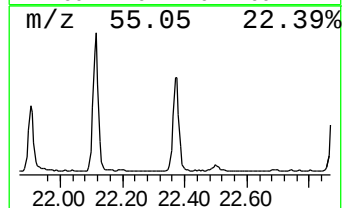
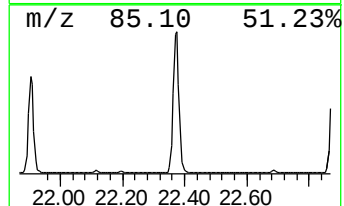
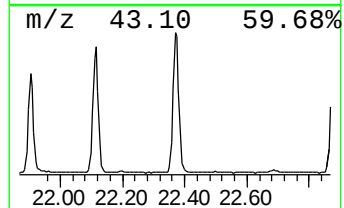
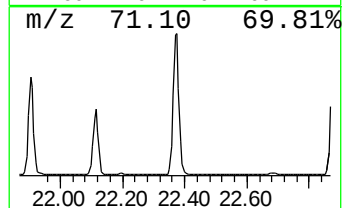
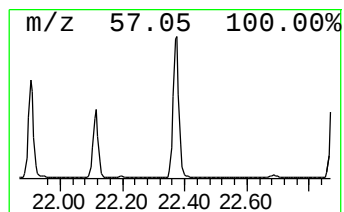
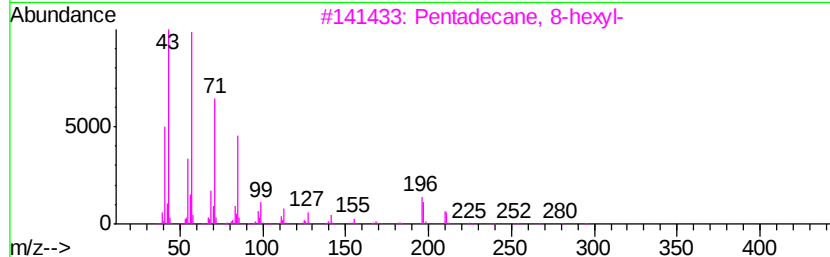
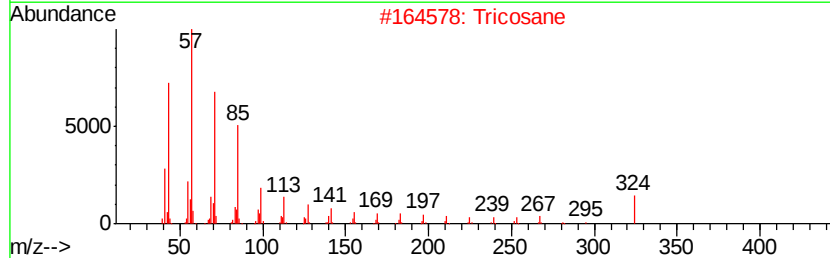
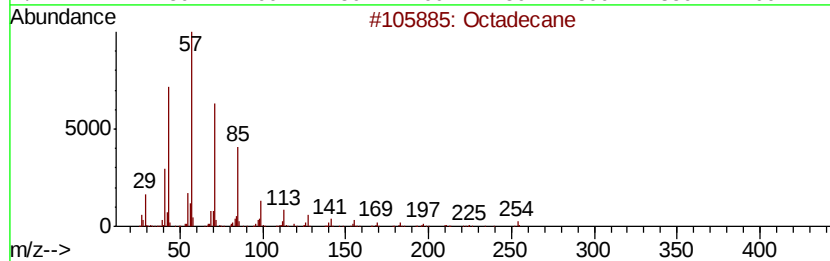
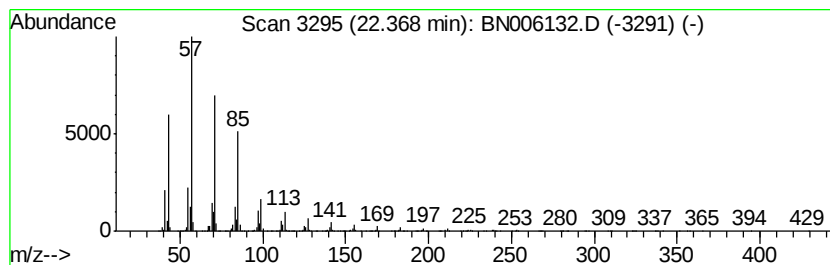
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 (DEL) Alkane: Straight-Chai... Concentration Rank 7

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 22.37 | 7.92 ng/ul | 3427430 | Chrysene-d12     | 21.29 |

| Hit# | of | 5 | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------|-----|---------|-------------|------|
| 1    |    |   | Octadecane            | 254 | C18H38  | 000593-45-3 | 96   |
| 2    |    |   | Tricosane             | 324 | C23H48  | 000638-67-5 | 95   |
| 3    |    |   | Pentadecane, 8-hexyl- | 296 | C21H44  | 013475-75-7 | 94   |
| 4    |    |   | Eicosane, 10-methyl-  | 296 | C21H44  | 054833-23-7 | 93   |
| 5    |    |   | Heneicosane           | 296 | C21H44  | 000629-94-7 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN060519\  
Data File : BN006132.D  
Acq On : 06 Jun 2019 11:48  
Operator : JU/SJ  
Sample : K3016-26  
Misc :  
ALS Vial : 41 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A51H2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN060419MA.M  
Quant Title : SVOA CALIBRATION

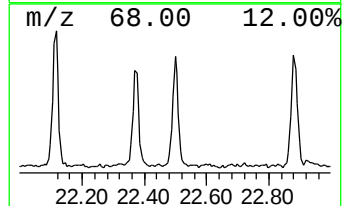
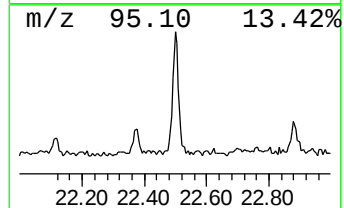
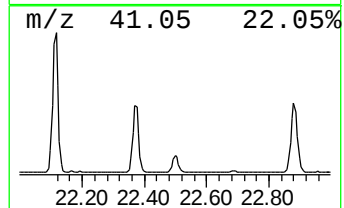
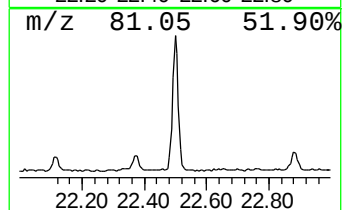
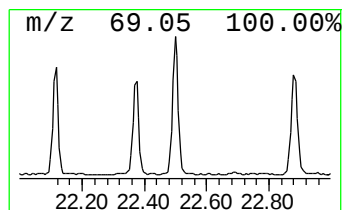
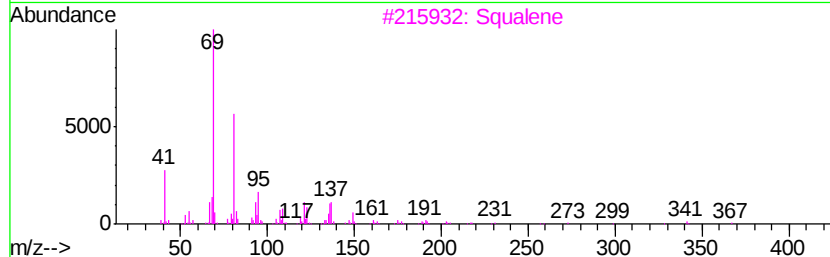
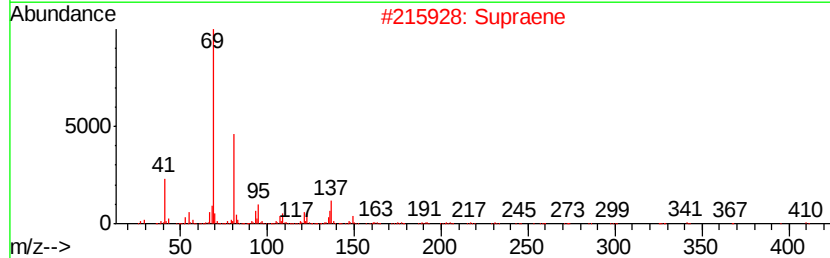
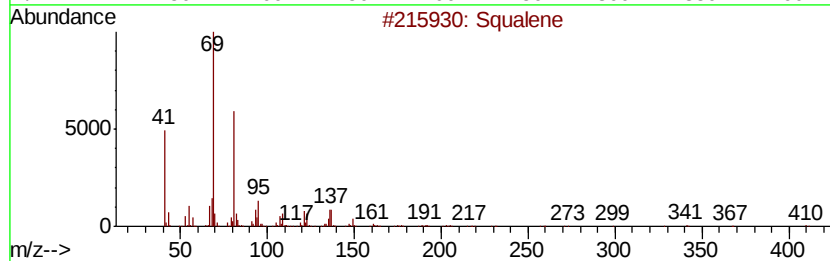
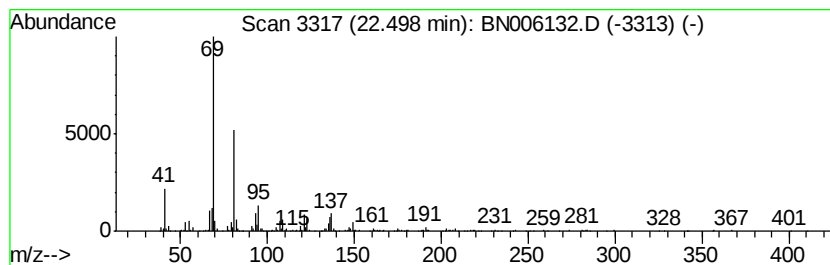
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 Squalene Concentration Rank 14

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 22.50 | 2.78 ng/ul | 536898 | Perylene-d12     | 23.55 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Squalene     | 410 | C30H50  | 000111-02-4 | 99   |
| 2    |    | Supraene     | 410 | C30H50  | 007683-64-9 | 98   |
| 3    |    | Squalene     | 410 | C30H50  | 000111-02-4 | 90   |
| 4    |    | Squalene     | 410 | C30H50  | 000111-02-4 | 87   |
| 5    |    | Squalene     | 410 | C30H50  | 000111-02-4 | 81   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN060519\  
Data File : BN006132.D  
Acq On : 06 Jun 2019 11:48  
Operator : JU/SJ  
Sample : K3016-26  
Misc :  
ALS Vial : 41 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A51H2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN060419MA.M  
Quant Title : SVOA CALIBRATION

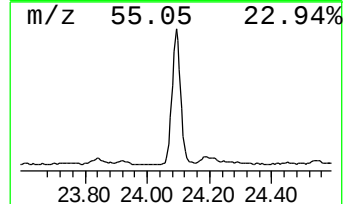
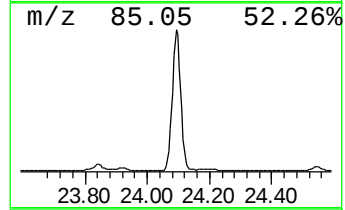
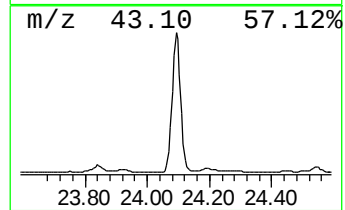
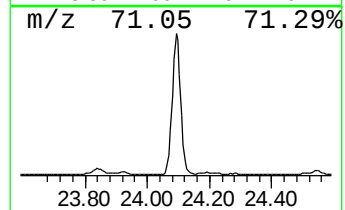
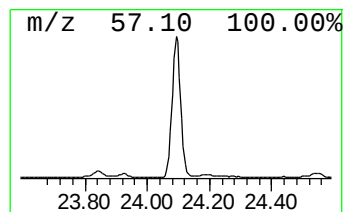
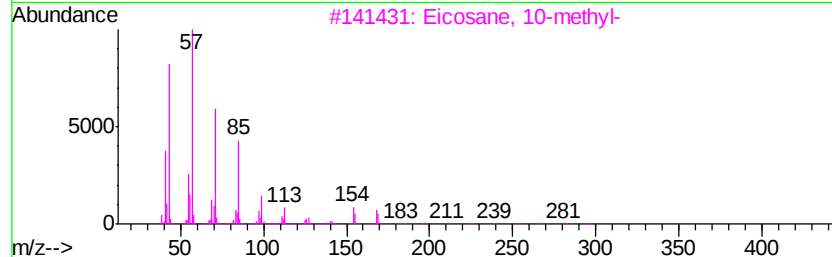
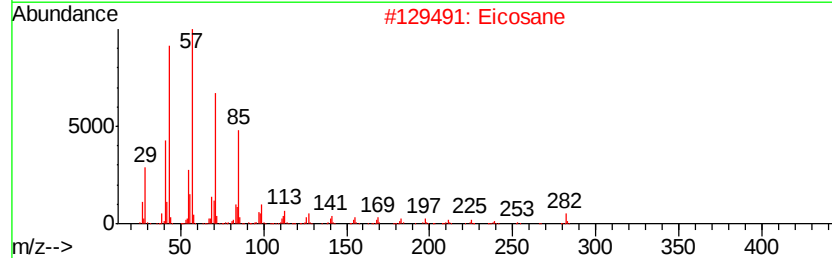
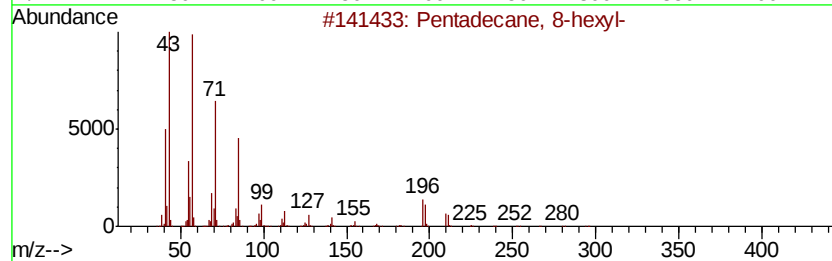
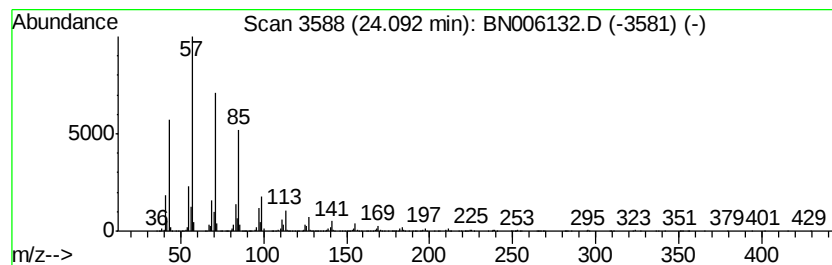
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 24.09 | 20.42 ng/ul | 3937660 | Perylene-d12     | 23.55 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Pentadecane, 8-hexyl- | 296 | C21H44  | 013475-75-7 | 94   |
| 2    |    | Eicosane              | 282 | C20H42  | 000112-95-8 | 93   |
| 3    |    | Eicosane, 10-methyl-  | 296 | C21H44  | 054833-23-7 | 93   |
| 4    |    | Heneicosane           | 296 | C21H44  | 000629-94-7 | 91   |
| 5    |    | Octacosane            | 394 | C28H58  | 000630-02-4 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN060519\  
Data File : BN006132.D  
Acq On : 06 Jun 2019 11:48  
Operator : JU/SJ  
Sample : K3016-26  
Misc :  
ALS Vial : 41 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A51H2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN060419MA.M  
Quant Title : SVOA CALIBRATION

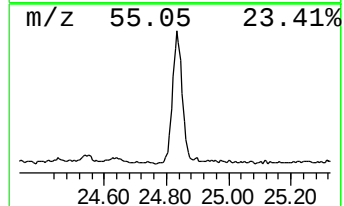
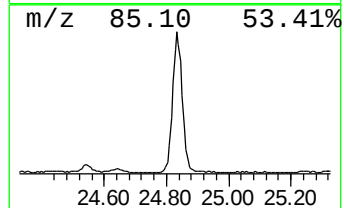
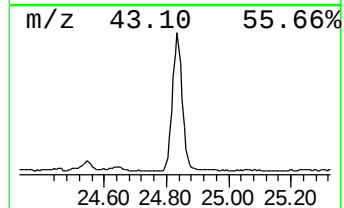
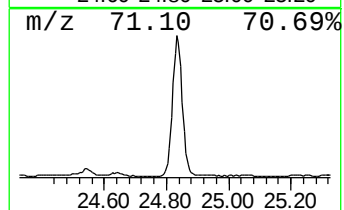
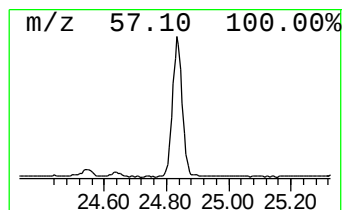
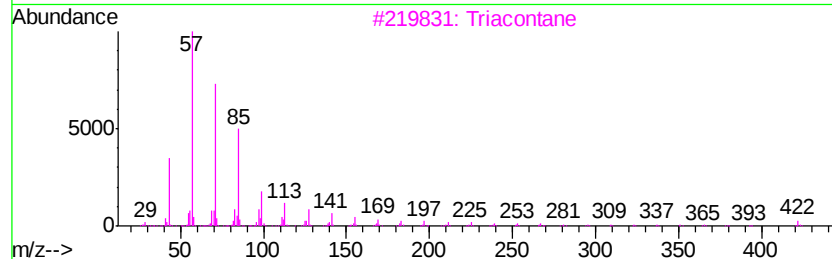
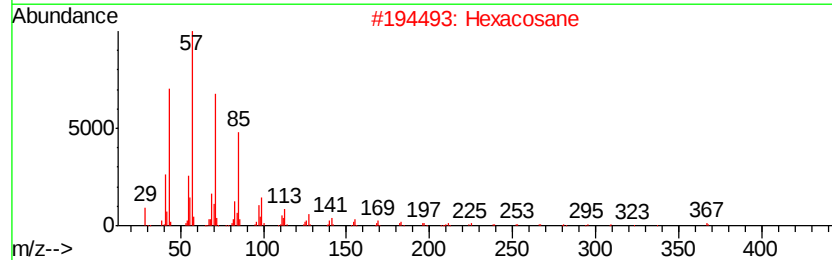
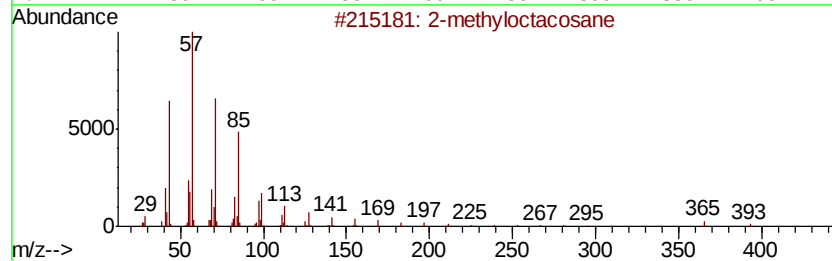
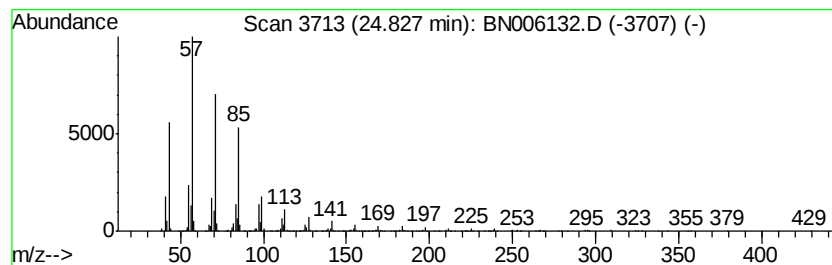
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 13 (DEL) Alkane: Straight-Chai... Concentration Rank 5

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 24.83 | 13.77 ng/ul | 2655240 | Perylene-d12     | 23.55 |

| Hit# | of | Tentative ID       | MW  | MolForm | CAS#         | Qual |
|------|----|--------------------|-----|---------|--------------|------|
| 1    | 5  | 2-methyloctacosane | 408 | C29H60  | 1000376-72-8 | 91   |
| 2    |    | Hexacosane         | 366 | C26H54  | 000630-01-3  | 91   |
| 3    |    | triacontane        | 422 | C30H62  | 000638-68-6  | 91   |
| 4    |    | Tetratetracontane  | 619 | C44H90  | 007098-22-8  | 91   |
| 5    |    | Heneicosane        | 296 | C21H44  | 000629-94-7  | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN060519\  
Data File : BN006132.D  
Acq On : 06 Jun 2019 11:48  
Operator : JU/SJ  
Sample : K3016-26  
Misc :  
ALS Vial : 41 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A51H2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN060419MA.M  
Quant Title : SVOA CALIBRATION

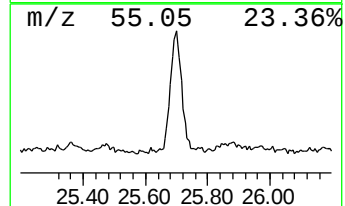
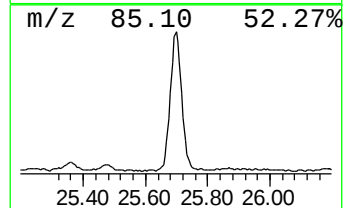
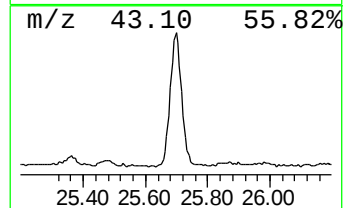
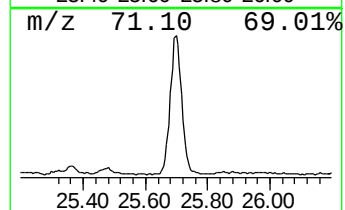
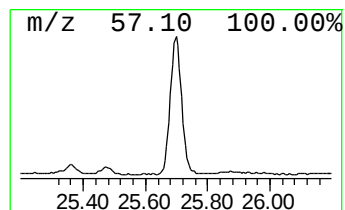
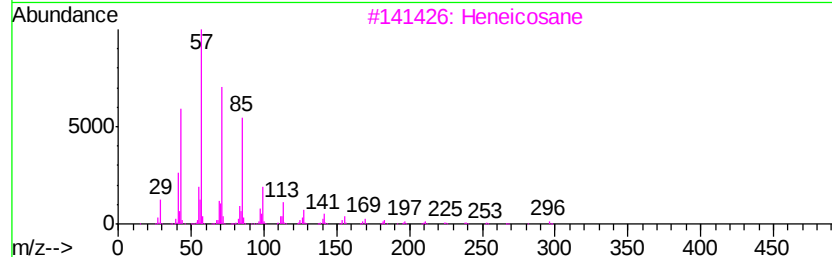
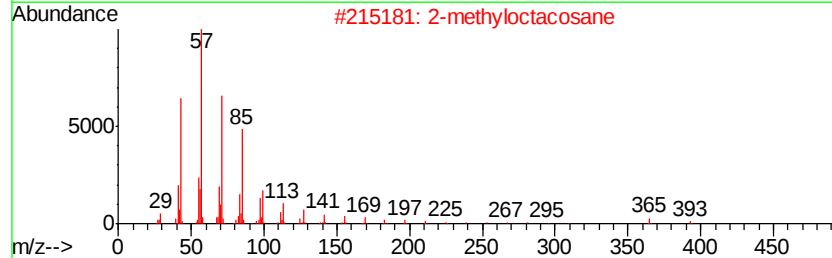
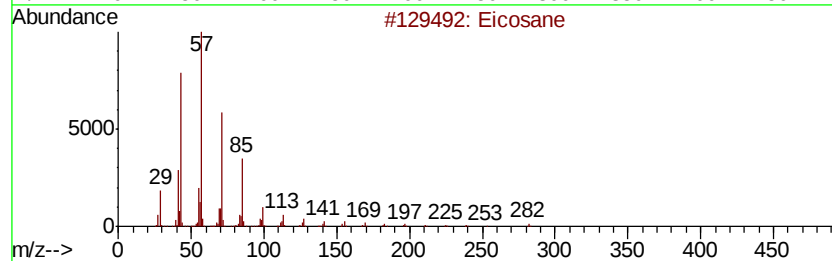
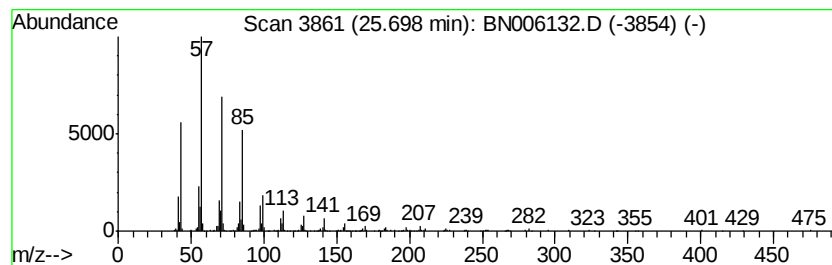
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 14 (DEL) Alkane: Straight-Chai... Concentration Rank 9

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 25.70 | 7.05 ng/ul | 1359850 | Perylene-d12     | 23.55 |

| Hit# | of | Tentative ID       | MW  | MolForm | CAS#         | Qual |
|------|----|--------------------|-----|---------|--------------|------|
| 1    | 5  | Eicosane           | 282 | C20H42  | 000112-95-8  | 95   |
| 2    |    | 2-methyloctacosane | 408 | C29H60  | 1000376-72-8 | 91   |
| 3    |    | Heneicosane        | 296 | C21H44  | 000629-94-7  | 91   |
| 4    |    | Octacosane         | 394 | C28H58  | 000630-02-4  | 91   |
| 5    |    | Heptacosane        | 380 | C27H56  | 000593-49-7  | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN060519\  
Data File : BN006132.D  
Acq On : 06 Jun 2019 11:48  
Operator : JU/SJ  
Sample : K3016-26  
Misc :  
ALS Vial : 41 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A51H2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN060419MA.M  
Quant Title : SVOA CALIBRATION

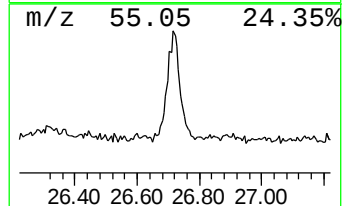
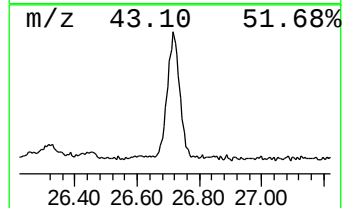
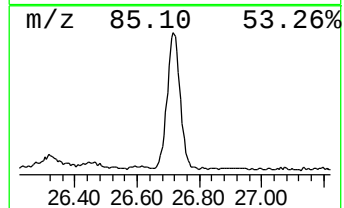
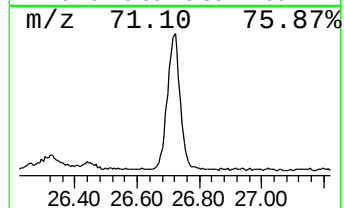
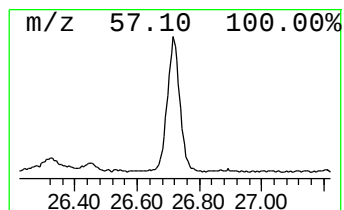
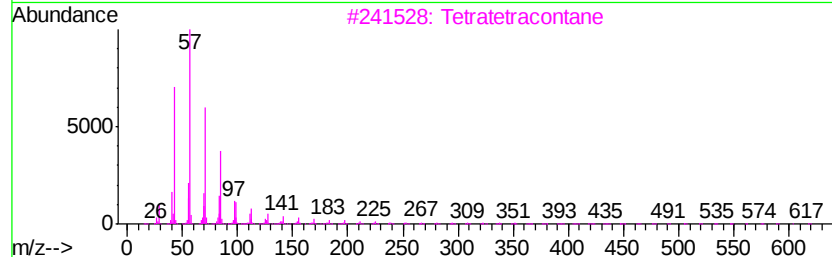
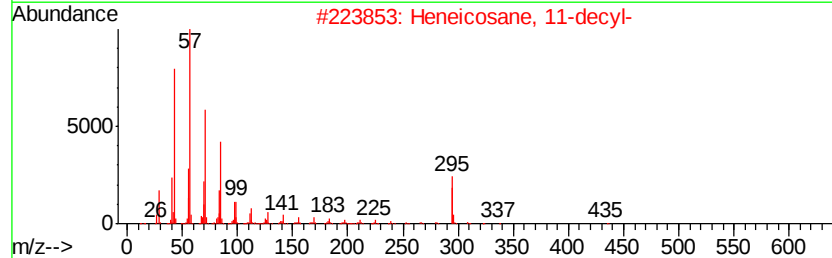
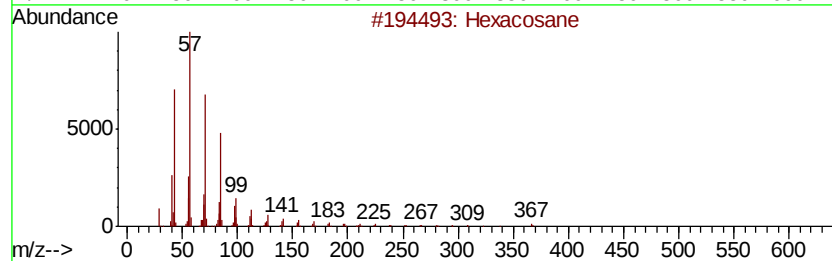
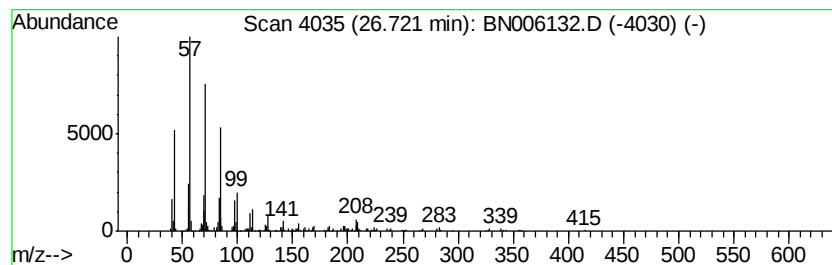
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 15 (DEL) Alkane: Straight-Chai... Concentration Rank 12

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 26.72 | 3.54 ng/ul | 683179 | Perylene-d12     | 23.55 |

| Hit# | of | 5 | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------|-----|---------|-------------|------|
| 1    |    |   | Hexacosane             | 366 | C26H54  | 000630-01-3 | 90   |
| 2    |    |   | Heneicosane, 11-decyl- | 437 | C31H64  | 055320-06-4 | 90   |
| 3    |    |   | Tetratetracontane      | 619 | C44H90  | 007098-22-8 | 90   |
| 4    |    |   | Octacosane             | 394 | C28H58  | 000630-02-4 | 90   |
| 5    |    |   | Heneicosane            | 296 | C21H44  | 000629-94-7 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN060519\  
 Data File : BN006132.D  
 Acq On : 06 Jun 2019 11:48  
 Operator : JU/SJ  
 Sample : K3016-26  
 Misc :  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A51H2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN060419MA.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 |
| 3-Penten-2-one, 4... | 4.19  | 50.1    | ng/ul | 4303170  | 1                     | 7.65  | 1717910 | 20.0 |
| 2-Pentanone, 4-hy... | 4.78  | 50.3    | ng/ul | 4322830  | 1                     | 7.65  | 1717910 | 20.0 |
| Naphthalene, 1-me... | 12.32 | 25.0    | ng/ul | 3370410  | 2                     | 10.43 | 2697220 | 20.0 |
| o-Hydroxybiphenyl    | 14.58 | 13.1    | ng/ul | 2064560  | 3                     | 14.30 | 3156080 | 20.0 |
| n-Hexadecanoic acid  | 17.96 | 3.2     | ng/ul | 569340   | 4                     | 17.06 | 3581270 | 20.0 |
| n-Heptadecanol-1     | 18.83 | 7.3     | ng/ul | 1305100  | 4                     | 17.06 | 3581270 | 20.0 |
| (DEL) Alkane: Cyc... | 21.01 | 4.3     | ng/ul | 1841280  | 5                     | 21.29 | 8653670 | 20.0 |
| (DEL) Alkane: Str... | 21.46 | 2.3     | ng/ul | 1002970  | 5                     | 21.29 | 8653670 | 20.0 |
| (DEL) Alkane: Str... | 21.90 | 5.2     | ng/ul | 2256490  | 5                     | 21.29 | 8653670 | 20.0 |
| (DEL) Alkane: Str... | 22.37 | 7.9     | ng/ul | 3427430  | 5                     | 21.29 | 8653670 | 20.0 |
| Squalene             | 22.50 | 2.8     | ng/ul | 536898   | 6                     | 23.55 | 3856440 | 20.0 |
| (DEL) Alkane: Str... | 24.09 | 20.4    | ng/ul | 3937660  | 6                     | 23.55 | 3856440 | 20.0 |
| (DEL) Alkane: Str... | 24.83 | 13.8    | ng/ul | 2655240  | 6                     | 23.55 | 3856440 | 20.0 |
| (DEL) Alkane: Str... | 25.70 | 7.0     | ng/ul | 1359850  | 6                     | 23.55 | 3856440 | 20.0 |
| (DEL) Alkane: Str... | 26.72 | 3.5     | ng/ul | 683179   | 6                     | 23.55 | 3856440 | 20.0 |