

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN100618\  
 Data File : BN002958.D  
 Acq On : 05 Oct 2018 09:52  
 Operator : MJ/SJ  
 Sample : J5183-19  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 JLC32

## Integration Parameters: LSCINT.P

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

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

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

Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN091418MA.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         | 6.816       | 639           | 651         | 670          | rBV      | 337941         | 703783        | 25.59%          | 1.455%        |
| 2         | 6.969       | 670           | 677         | 692          | rBV      | 312681         | 504363        | 18.34%          | 1.042%        |
| 3         | 7.163       | 704           | 710         | 723          | rBV      | 395173         | 658729        | 23.96%          | 1.361%        |
| 4         | 7.622       | 778           | 788         | 796          | rBV      | 532574         | 873349        | 31.76%          | 1.805%        |
| 5         | 8.157       | 874           | 879         | 889          | rVB4     | 22827          | 48510         | 1.76%           | 0.100%        |
| 6         | 8.340       | 904           | 910         | 925          | rBV      | 409855         | 757620        | 27.55%          | 1.566%        |
| 7         | 8.775       | 978           | 984         | 994          | rBV      | 384978         | 674517        | 24.53%          | 1.394%        |
| 8         | 9.493       | 1095          | 1106        | 1117         | rBV      | 301549         | 540865        | 19.67%          | 1.118%        |
| 9         | 10.034      | 1192          | 1198        | 1211         | rBV      | 436846         | 879037        | 31.97%          | 1.817%        |
| 10        | 10.346      | 1244          | 1251        | 1253         | rBV2     | 65224          | 120060        | 4.37%           | 0.248%        |
| 11        | 10.393      | 1253          | 1259        | 1265         | rVV      | 809293         | 1402580       | 51.01%          | 2.899%        |
| 12        | 10.446      | 1265          | 1268        | 1275         | rVB      | 52501          | 81119         | 2.95%           | 0.168%        |
| 13        | 10.546      | 1278          | 1285        | 1296         | rBV      | 271540         | 550034        | 20.00%          | 1.137%        |
| 14        | 11.234      | 1395          | 1402        | 1411         | rBV6     | 15145          | 45308         | 1.65%           | 0.094%        |
| 15        | 12.063      | 1538          | 1543        | 1551         | rVB      | 39465          | 66869         | 2.43%           | 0.138%        |
| 16        | 12.287      | 1576          | 1581        | 1590         | rVB      | 27478          | 44827         | 1.63%           | 0.093%        |
| 17        | 13.087      | 1712          | 1717        | 1723         | rBV2     | 50540          | 82114         | 2.99%           | 0.170%        |
| 18        | 13.157      | 1723          | 1729        | 1738         | rVB      | 181303         | 308984        | 11.24%          | 0.639%        |
| 19        | 13.310      | 1750          | 1755        | 1763         | rVB      | 68533          | 106126        | 3.86%           | 0.219%        |
| 20        | 13.440      | 1770          | 1777        | 1782         | rBV5     | 21410          | 55704         | 2.03%           | 0.115%        |
| 21        | 13.581      | 1796          | 1801        | 1806         | rBV3     | 29599          | 51580         | 1.88%           | 0.107%        |
| 22        | 13.675      | 1812          | 1817        | 1821         | rBV      | 925959         | 1260016       | 45.82%          | 2.604%        |
| 23        | 13.722      | 1821          | 1825        | 1833         | rVB      | 563563         | 811038        | 29.49%          | 1.676%        |
| 24        | 13.951      | 1858          | 1864        | 1877         | rBV      | 1165405        | 1890251       | 68.74%          | 3.907%        |
| 25        | 14.087      | 1884          | 1887        | 1895         | rVB8     | 23544          | 38312         | 1.39%           | 0.079%        |
| 26        | 14.169      | 1896          | 1901        | 1905         | rVB      | 82818          | 108908        | 3.96%           | 0.225%        |
| 27        | 14.263      | 1910          | 1917        | 1923         | rVV2     | 1172180        | 1851455       | 67.33%          | 3.827%        |
| 28        | 14.328      | 1924          | 1928        | 1937         | rVB2     | 69506          | 131817        | 4.79%           | 0.272%        |
| 29        | 14.516      | 1955          | 1960        | 1968         | rBV      | 145011         | 304570        | 11.08%          | 0.629%        |
| 30        | 14.669      | 1982          | 1986        | 1990         | rBV      | 69358          | 110251        | 4.01%           | 0.228%        |
| 31        | 14.792      | 2003          | 2007        | 2012         | rBV3     | 37186          | 64739         | 2.35%           | 0.134%        |
| 32        | 15.128      | 2060          | 2064        | 2069         | rBV      | 124769         | 159362        | 5.80%           | 0.329%        |
| 33        | 15.263      | 2081          | 2087        | 2092         | rBV      | 1416593        | 2047776       | 74.47%          | 4.232%        |
| 34        | 15.316      | 2093          | 2096        | 2100         | rVB      | 73217          | 89629         | 3.26%           | 0.185%        |

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 Stop Thrs : 0

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

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

Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN091418MA.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |         |        |
|----|--------|------|------|------|------|---------|---------|---------|--------|
| 35 | 15.410 | 2108 | 2112 | 2121 | rBV  | 206890  | 322647  | 11.73%  | 0.667% |
| 36 | 15.534 | 2129 | 2133 | 2140 | rVB  | 124484  | 202801  | 7.38%   | 0.419% |
| 37 | 15.992 | 2206 | 2211 | 2212 | rBV  | 311909  | 389375  | 14.16%  | 0.805% |
| 38 | 16.781 | 2342 | 2345 | 2350 | rBV  | 178018  | 255660  | 9.30%   | 0.528% |
| 39 | 16.833 | 2351 | 2354 | 2360 | rVB  | 252167  | 339587  | 12.35%  | 0.702% |
| 40 | 16.892 | 2361 | 2364 | 2368 | rBV  | 333385  | 421812  | 15.34%  | 0.872% |
| 41 | 17.016 | 2380 | 2385 | 2389 | rBV  | 1357370 | 2030612 | 73.85%  | 4.197% |
| 42 | 17.057 | 2389 | 2392 | 2397 | rVB  | 849930  | 1104028 | 40.15%  | 2.282% |
| 43 | 17.116 | 2397 | 2402 | 2406 | rBV  | 1358002 | 1909375 | 69.44%  | 3.946% |
| 44 | 17.192 | 2412 | 2415 | 2423 | rVB3 | 177804  | 290156  | 10.55%  | 0.600% |
| 45 | 17.622 | 2482 | 2488 | 2496 | rVB2 | 597668  | 1261481 | 45.88%  | 2.607% |
| 46 | 17.922 | 2536 | 2539 | 2547 | rBV4 | 244892  | 500600  | 18.20%  | 1.035% |
| 47 | 17.986 | 2547 | 2550 | 2554 | rVB  | 404009  | 492832  | 17.92%  | 1.019% |
| 48 | 18.086 | 2563 | 2567 | 2572 | rBV2 | 864693  | 1146009 | 41.68%  | 2.369% |
| 49 | 18.151 | 2575 | 2578 | 2581 | rVB  | 326931  | 385990  | 14.04%  | 0.798% |
| 50 | 18.192 | 2582 | 2585 | 2587 | rBV  | 261092  | 283963  | 10.33%  | 0.587% |
| 51 | 18.375 | 2612 | 2616 | 2619 | rBV  | 644434  | 857018  | 31.17%  | 1.771% |
| 52 | 18.551 | 2644 | 2646 | 2650 | rVB  | 385709  | 415496  | 15.11%  | 0.859% |
| 53 | 18.916 | 2705 | 2708 | 2711 | rBV  | 627030  | 834888  | 30.36%  | 1.726% |
| 54 | 19.086 | 2733 | 2737 | 2742 | rVB  | 1583317 | 2007395 | 73.00%  | 4.149% |
| 55 | 19.145 | 2743 | 2747 | 2753 | rBV2 | 1144088 | 1682556 | 61.19%  | 3.478% |
| 56 | 19.227 | 2758 | 2761 | 2766 | rVB2 | 595472  | 885900  | 32.22%  | 1.831% |
| 57 | 19.422 | 2790 | 2794 | 2796 | rBV  | 1501948 | 2009791 | 73.09%  | 4.154% |
| 58 | 19.451 | 2797 | 2799 | 2803 | rVB  | 1507615 | 1593499 | 57.95%  | 3.293% |
| 59 | 21.221 | 3095 | 3100 | 3104 | rBV2 | 1421373 | 2749810 | 100.00% | 5.683% |
| 60 | 21.263 | 3104 | 3107 | 3111 | rVB  | 1210374 | 1473049 | 53.57%  | 3.045% |
| 61 | 22.780 | 3361 | 3365 | 3370 | rBV  | 1058563 | 2027147 | 73.72%  | 4.190% |
| 62 | 23.251 | 3441 | 3445 | 3449 | rBV  | 1063984 | 1688125 | 61.39%  | 3.489% |
| 63 | 23.304 | 3450 | 3454 | 3458 | rVV  | 859801  | 1397560 | 50.82%  | 2.889% |

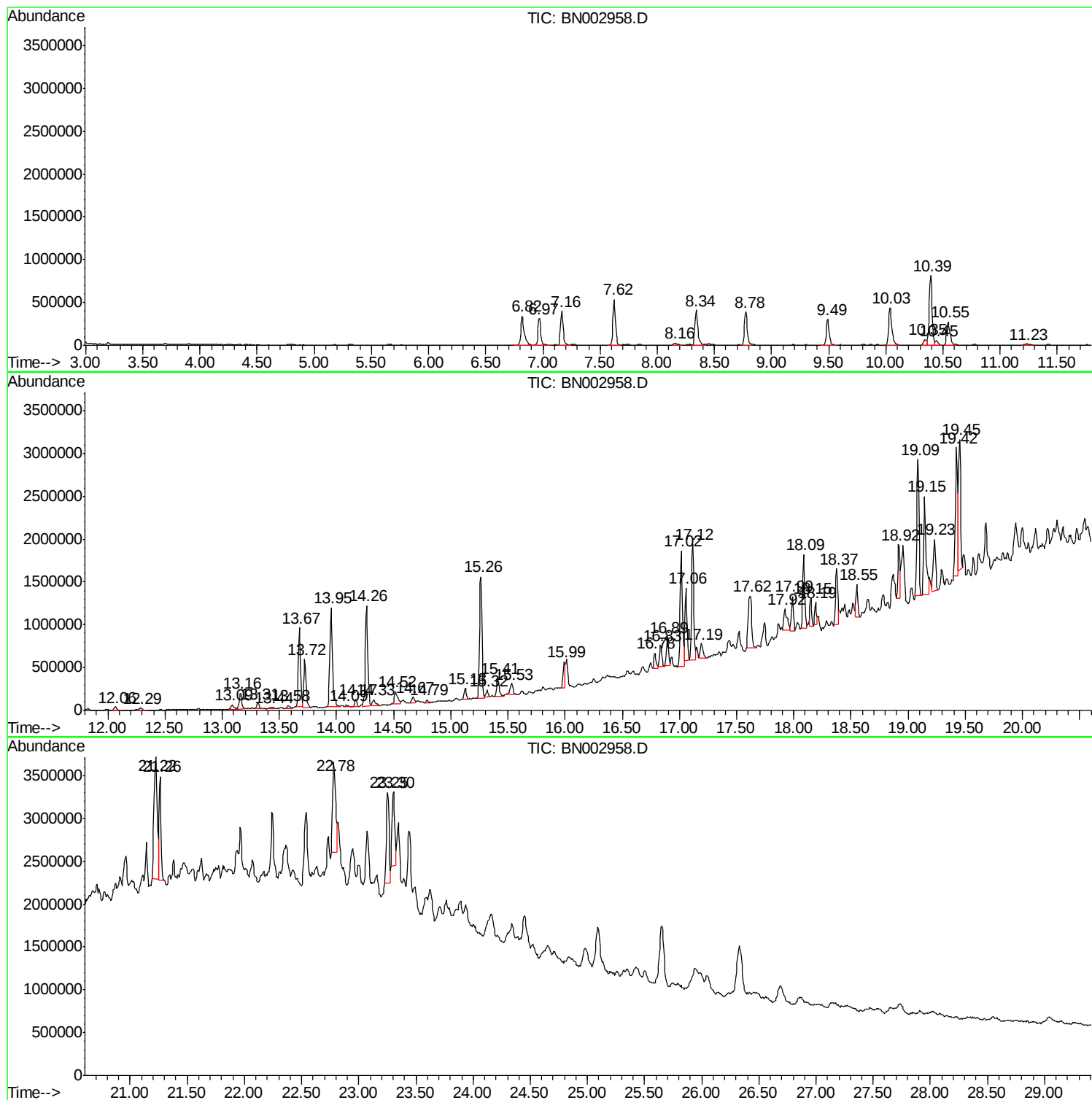
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ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
JLC32

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN091418MA.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-BN091418MA.M  
Quant Title : SVOA CALIBRATION

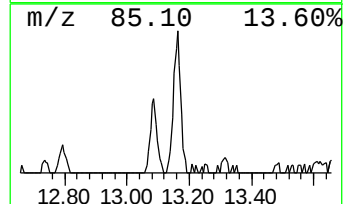
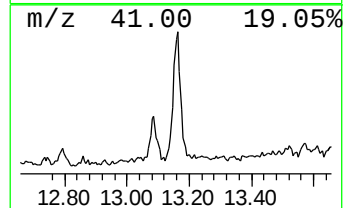
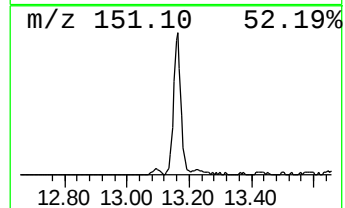
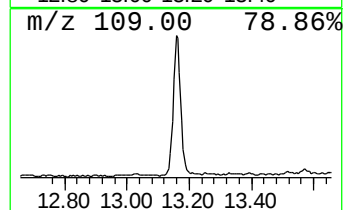
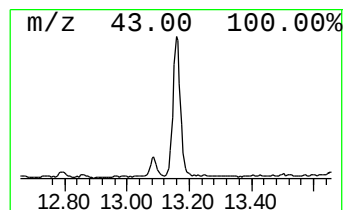
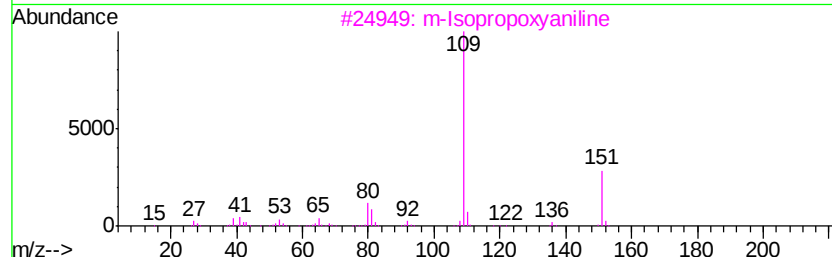
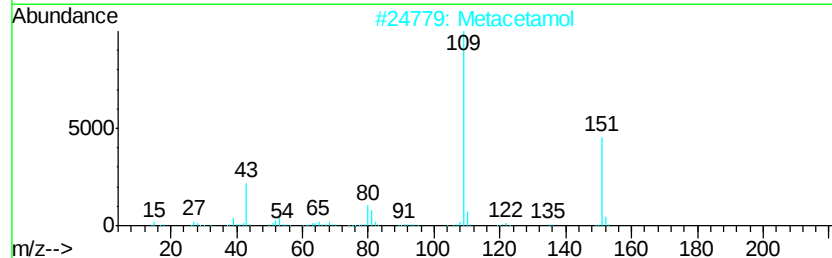
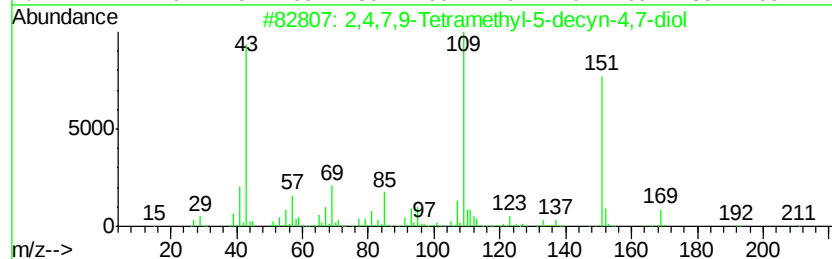
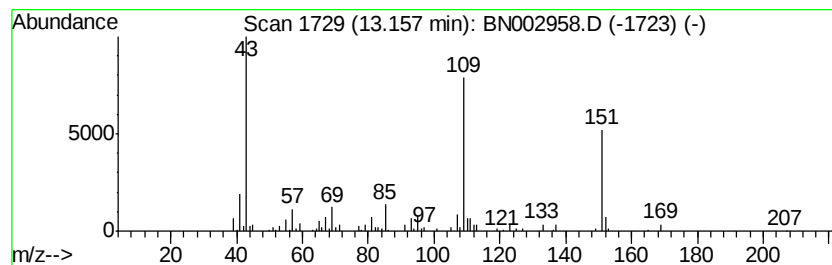
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 2,4,7,9-Tetramethyl-5-decyn... Concentration Rank 13

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 13.16 | 3.34 ng/ul | 308984 | Acenaphthene-d10 | 14.26 |

| Hit# | of                                  | 5   | Tentative ID | MW          | MolForm | CAS# | Qual |
|------|-------------------------------------|-----|--------------|-------------|---------|------|------|
| 1    | 2,4,7,9-Tetramethyl-5-decyn-4,7-... | 226 | C14H26O2     | 000126-86-3 | 91      |      |      |
| 2    | Metacetamol                         | 151 | C8H9NO2      | 000621-42-1 | 68      |      |      |
| 3    | m-Isopropoxyaniline                 | 151 | C9H13NO      | 041406-00-2 | 59      |      |      |
| 4    | 1-(1,2,3-Trimethyl-cyclopent-2-e... | 152 | C10H16O      | 070987-81-4 | 43      |      |      |
| 5    | 3-Pyridinol, 6-methyl-              | 109 | C6H7NO       | 001121-78-4 | 38      |      |      |



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BNA\_N  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN091418MA.M  
Quant Title : SVOA CALIBRATION

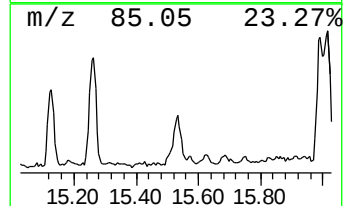
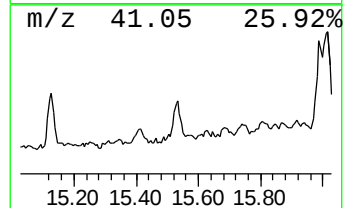
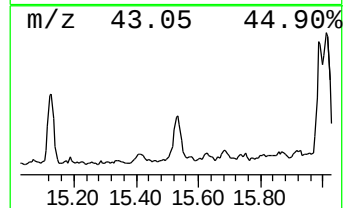
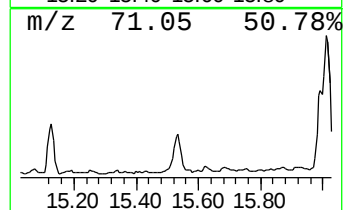
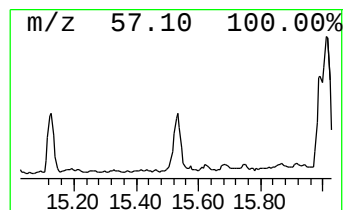
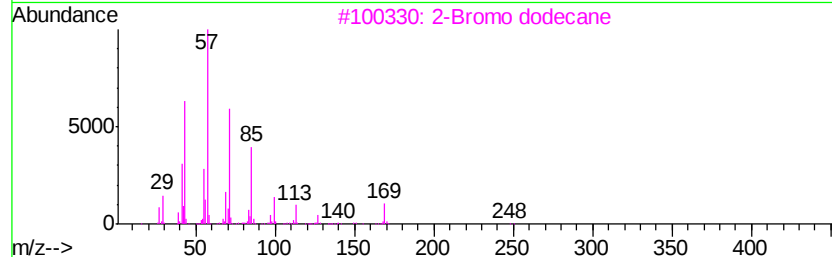
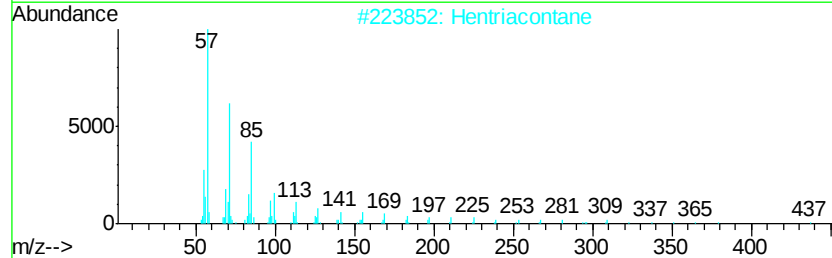
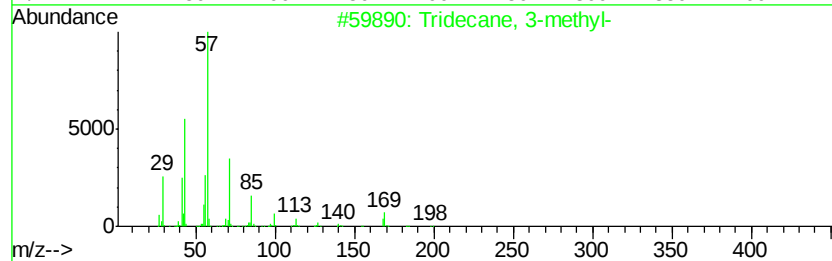
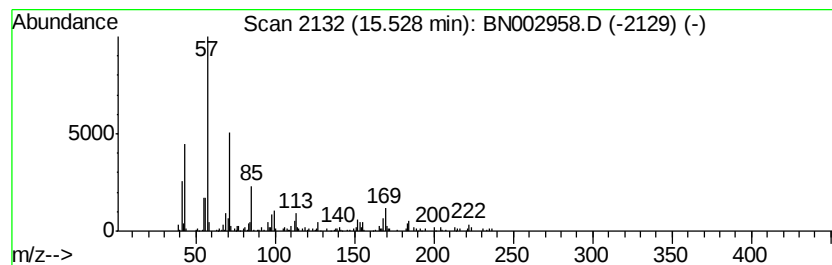
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 16

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 15.53 | 2.19 ng/ul | 202801 | Acenaphthene-d10 | 14.26 |

| Hit# | of | Tentative ID            | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------|-----|----------|-------------|------|
| 1    | 5  | Tridecane, 3-methyl-    | 198 | C14H30   | 006418-41-3 | 72   |
| 2    |    | Hentriacontane          | 437 | C31H64   | 000630-04-6 | 64   |
| 3    |    | 2-Bromo dodecane        | 248 | C12H25Br | 013187-99-0 | 64   |
| 4    |    | Octadecane              | 254 | C18H38   | 000593-45-3 | 59   |
| 5    |    | Undecane, 3,5-dimethyl- | 184 | C13H28   | 017312-81-1 | 50   |



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Quant Title : SVOA CALIBRATION

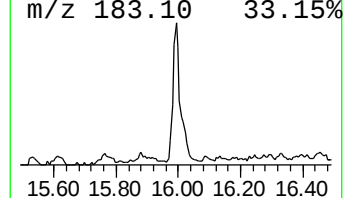
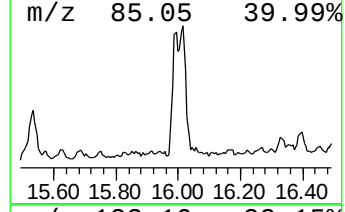
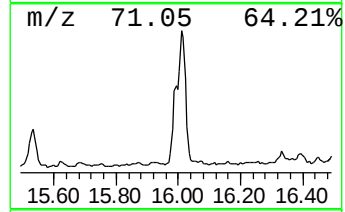
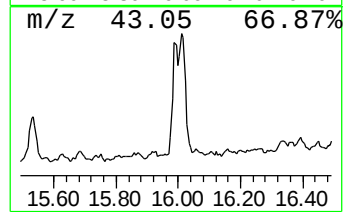
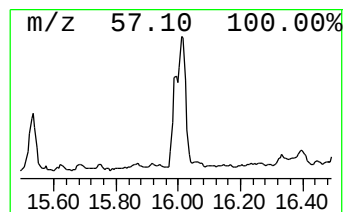
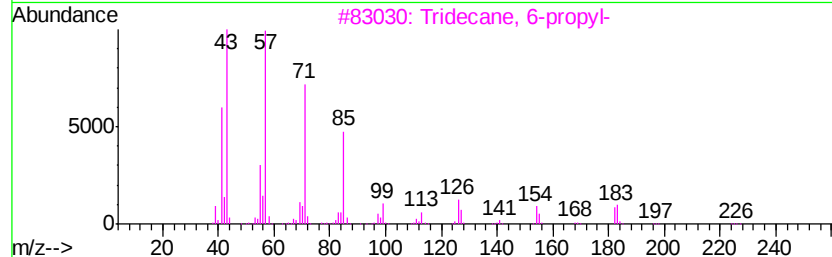
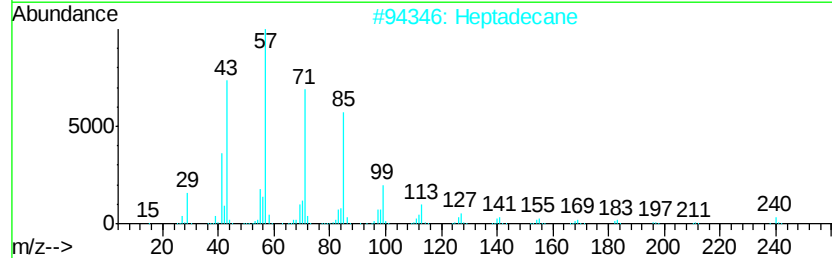
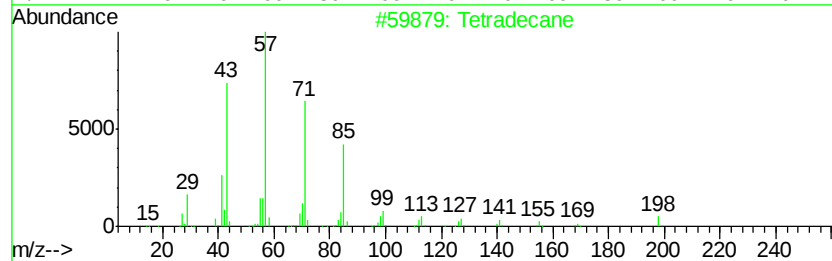
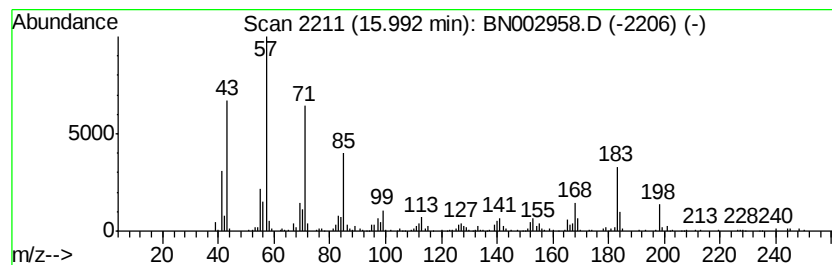
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 10

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 15.99 | 3.84 ng/ul | 389375 | Phenanthrene-d10 | 17.02 |

| Hit# | of | 5 | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------|-----|---------|-------------|------|
| 1    |    |   | Tetradecane          | 198 | C14H30  | 000629-59-4 | 93   |
| 2    |    |   | Heptadecane          | 240 | C17H36  | 000629-78-7 | 92   |
| 3    |    |   | Tridecane, 6-propyl- | 226 | C16H34  | 055045-10-8 | 76   |
| 4    |    |   | Tetradecane          | 198 | C14H30  | 000629-59-4 | 70   |
| 5    |    |   | Tridecane            | 184 | C13H28  | 000629-50-5 | 70   |



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Quant Title : SVOA CALIBRATION

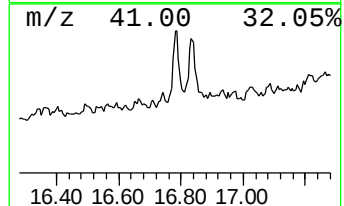
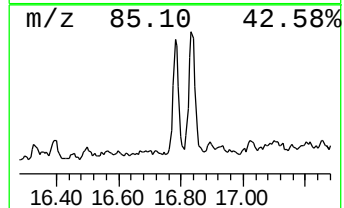
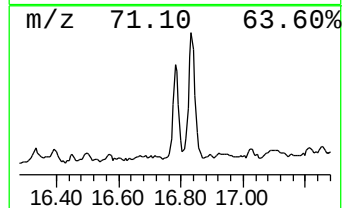
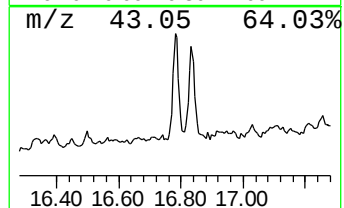
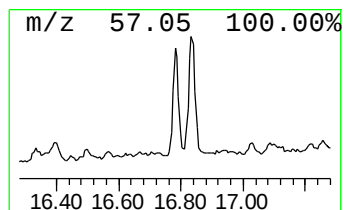
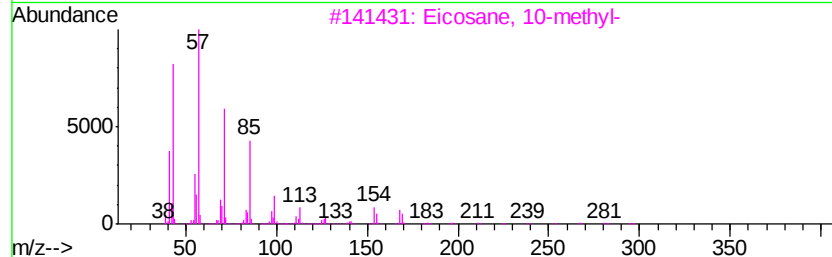
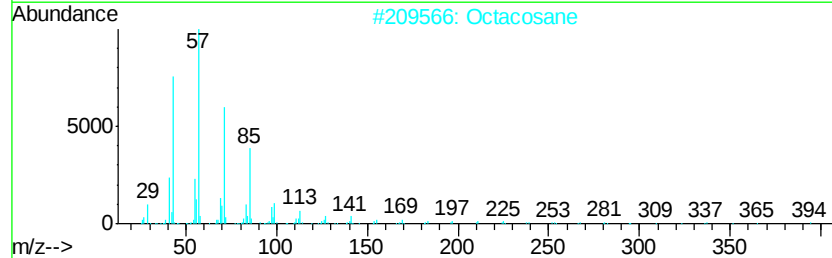
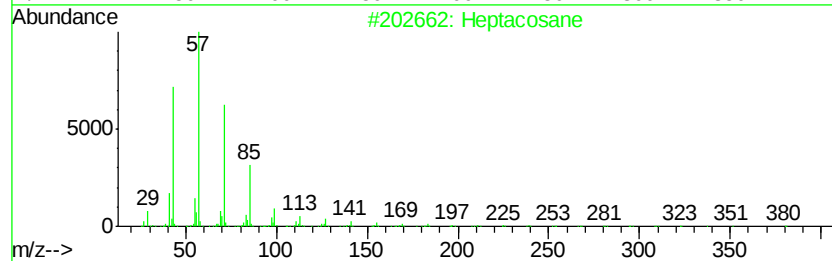
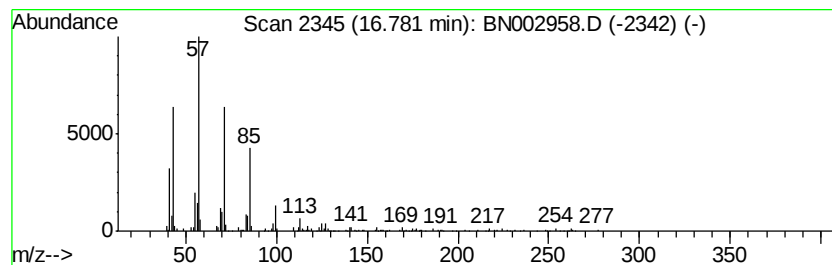
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 15

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 16.78 | 2.52 ng/ul | 255660 | Phenanthrene-d10 | 17.02 |

| Hit# | of | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------|-----|---------|-------------|------|
| 1    | 5  | Heptacosane          | 380 | C27H56  | 000593-49-7 | 86   |
| 2    |    | Octacosane           | 394 | C28H58  | 000630-02-4 | 83   |
| 3    |    | Eicosane, 10-methyl- | 296 | C21H44  | 054833-23-7 | 80   |
| 4    |    | Heneicosane          | 296 | C21H44  | 000629-94-7 | 80   |
| 5    |    | Tridecane, 1-iodo-   | 310 | C13H27I | 035599-77-0 | 80   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN100618\  
Data File : BN002958.D  
Acq On : 05 Oct 2018 09:52  
Operator : MJ/SJ  
Sample : J5183-19  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
JLC32

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN091418MA.M  
Quant Title : SVOA CALIBRATION

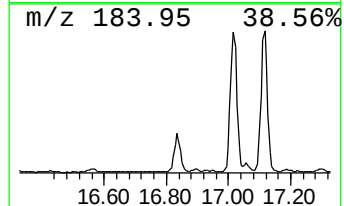
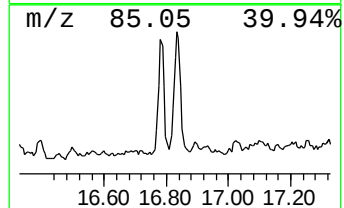
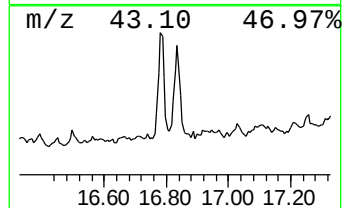
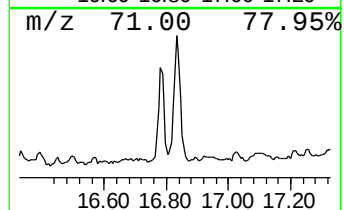
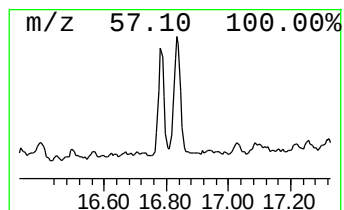
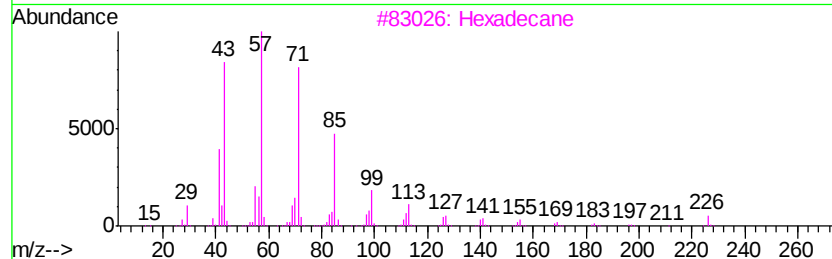
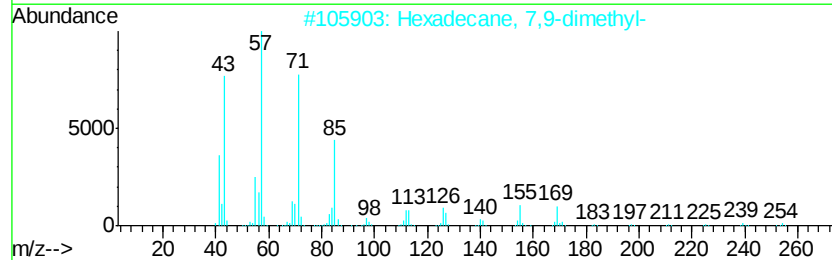
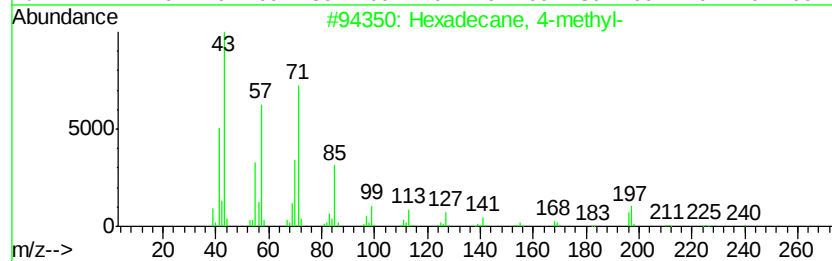
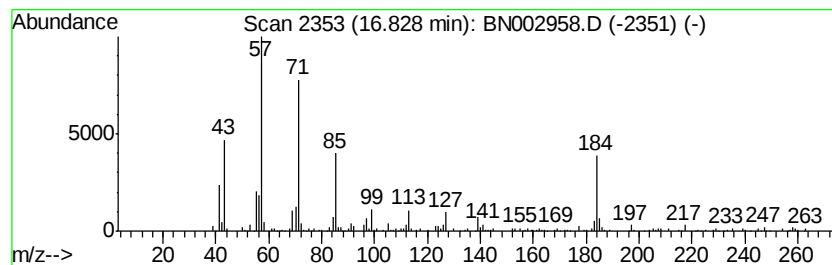
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 12

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 16.83 | 3.34 ng/ul | 339587 | Phenanthrene-d10 | 17.02 |

| Hit# | of | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1    | 5  | Hexadecane, 4-methyl-     | 240 | C17H36  | 025117-26-4 | 70   |
| 2    |    | Hexadecane, 7,9-dimethyl- | 254 | C18H38  | 021164-95-4 | 70   |
| 3    |    | Hexadecane                | 226 | C16H34  | 000544-76-3 | 68   |
| 4    |    | Octadecane                | 254 | C18H38  | 000593-45-3 | 68   |
| 5    |    | Decane, 2-methyl-         | 156 | C11H24  | 006975-98-0 | 64   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN100618\  
Data File : BN002958.D  
Acq On : 05 Oct 2018 09:52  
Operator : MJ/SJ  
Sample : J5183-19  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

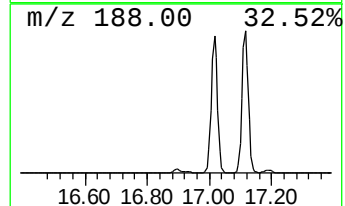
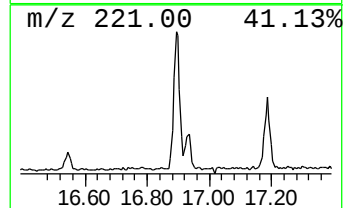
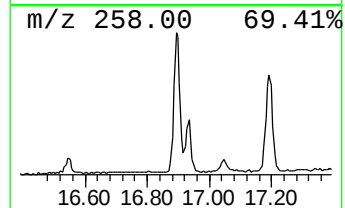
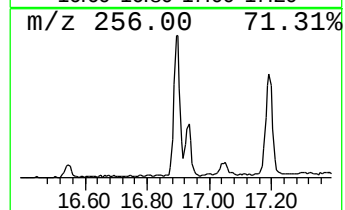
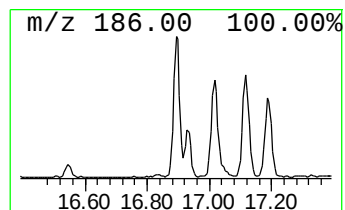
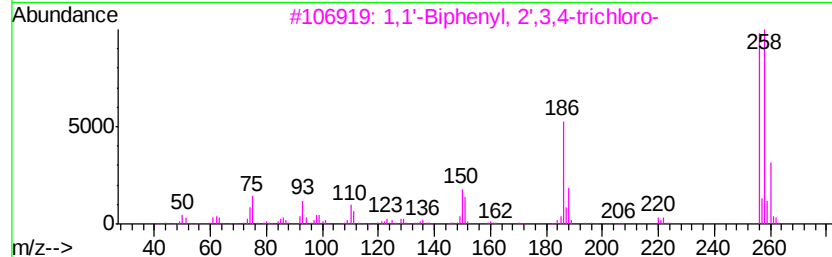
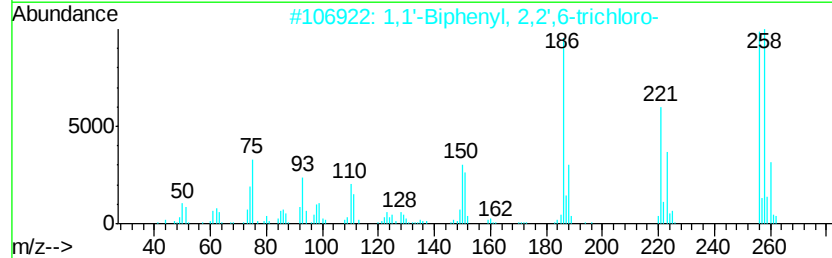
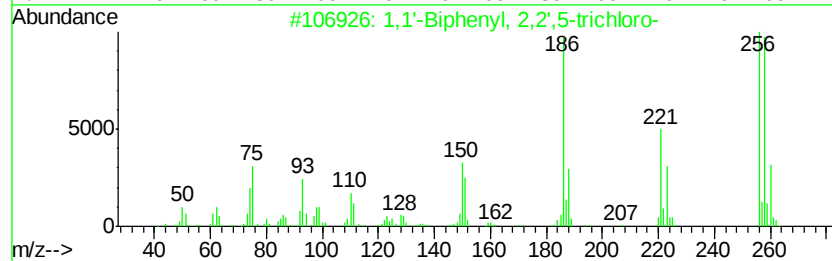
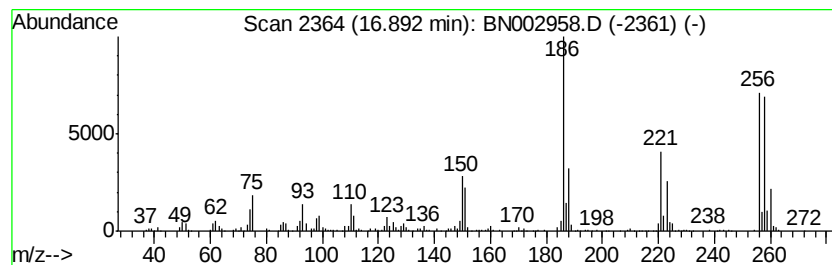
Instrument :  
BNA\_N  
ClientSampleId :  
JLC32

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN091418MA.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 6 1,1'-Biphenyl, 2,2',5-trich... Concentration Rank 8

| R.T.      | EstConc                          | Area   | Relative to ISTD | R.T.        |      |
|-----------|----------------------------------|--------|------------------|-------------|------|
| 16.89     | 4.15 ng/ul                       | 421812 | Phenanthrene-d10 | 17.02       |      |
| Hit# of 5 | Tentative ID                     | MW     | MolForm          | CAS#        | Qual |
| 1         | 1,1'-Biphenyl, 2,2',5-trichloro- | 256    | C12H7Cl3         | 037680-65-2 | 99   |
| 2         | 1,1'-Biphenyl, 2,2',6-trichloro- | 256    | C12H7Cl3         | 038444-73-4 | 99   |
| 3         | 1,1'-Biphenyl, 2',3,4-trichloro- | 256    | C12H7Cl3         | 038444-86-9 | 99   |
| 4         | 1,1'-Biphenyl, 2,4',5-trichloro- | 256    | C12H7Cl3         | 016606-02-3 | 98   |
| 5         | 1,1'-Biphenyl, 3,3',5-trichloro- | 256    | C12H7Cl3         | 038444-87-0 | 97   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN100618\  
Data File : BN002958.D  
Acq On : 05 Oct 2018 09:52  
Operator : MJ/SJ  
Sample : J5183-19  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

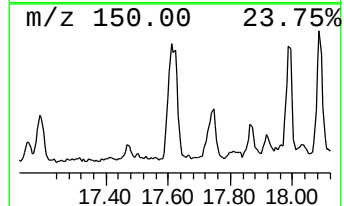
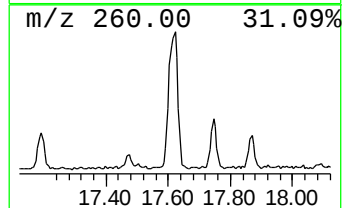
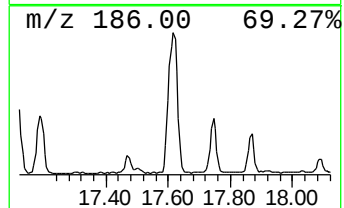
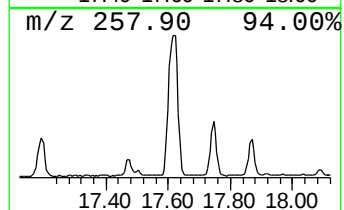
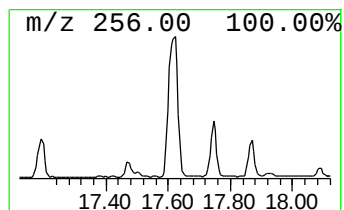
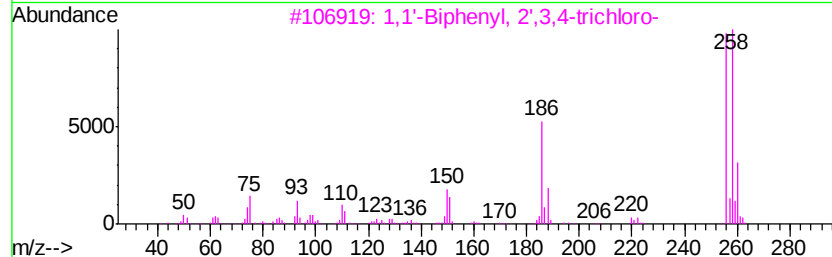
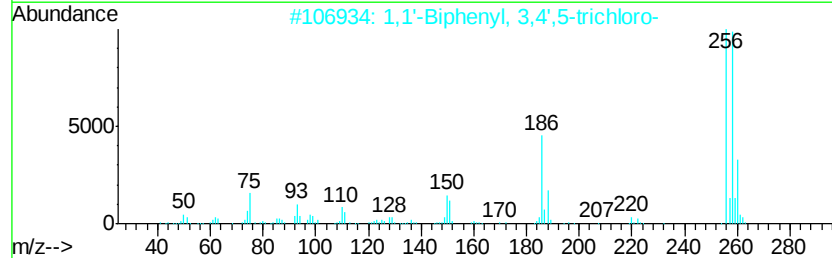
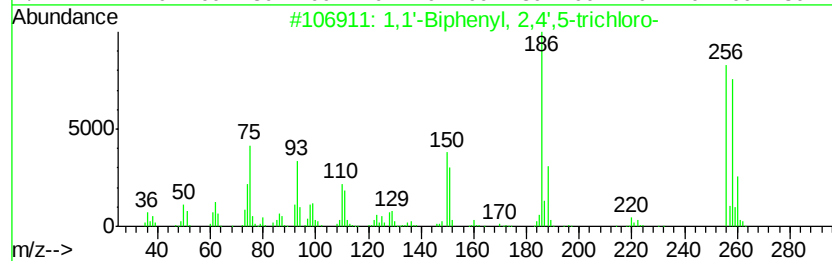
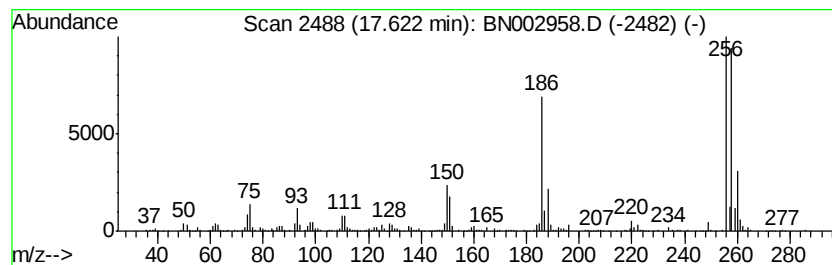
Instrument :  
BNA\_N  
ClientSampleId :  
JLC32

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN091418MA.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 7 1,1'-Biphenyl, 2,4',5-trich... Concentration Rank 1

| R.T.      | EstConc                          | Area    | Relative to ISTD | R.T.        |      |
|-----------|----------------------------------|---------|------------------|-------------|------|
| 17.62     | 12.42 ng/ul                      | 1261480 | Phenanthrene-d10 | 17.02       |      |
| Hit# of 5 | Tentative ID                     | MW      | MolForm          | CAS#        | Qual |
| 1         | 1,1'-Biphenyl, 2,4',5-trichloro- | 256     | C12H7Cl3         | 016606-02-3 | 99   |
| 2         | 1,1'-Biphenyl, 3,4',5-trichloro- | 256     | C12H7Cl3         | 038444-88-1 | 99   |
| 3         | 1,1'-Biphenyl, 2',3,4-trichloro- | 256     | C12H7Cl3         | 038444-86-9 | 99   |
| 4         | 1,1'-Biphenyl, 2,3,4-trichloro-  | 256     | C12H7Cl3         | 055702-46-0 | 99   |
| 5         | 1,1'-Biphenyl, 2,4,4'-trichloro- | 256     | C12H7Cl3         | 007012-37-5 | 99   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN100618\  
Data File : BN002958.D  
Acq On : 05 Oct 2018 09:52  
Operator : MJ/SJ  
Sample : J5183-19  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
JLC32

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN091418MA.M  
Quant Title : SVOA CALIBRATION

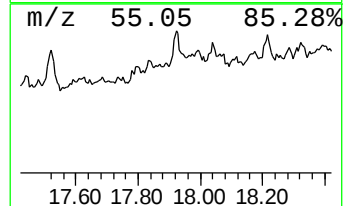
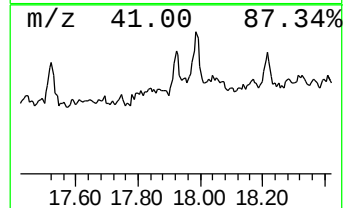
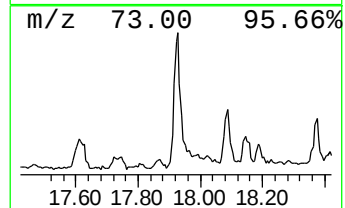
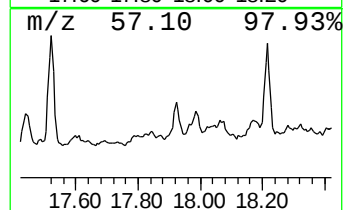
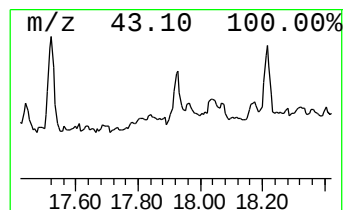
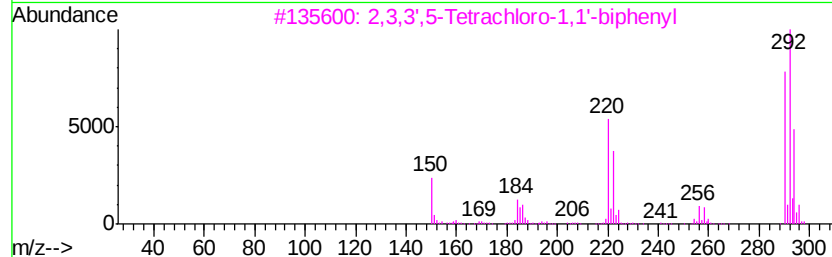
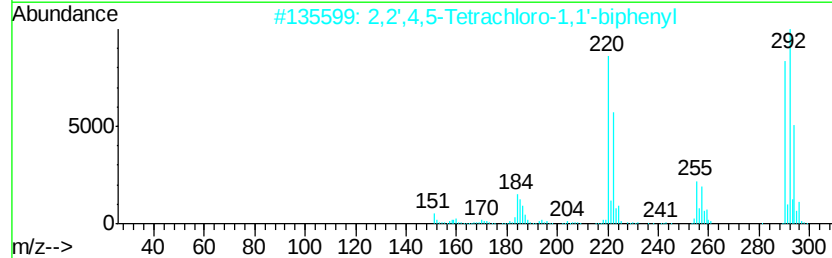
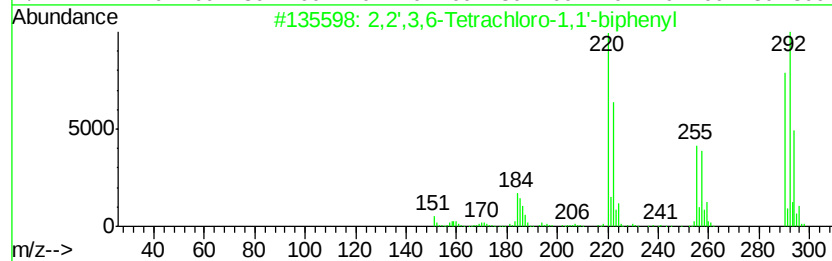
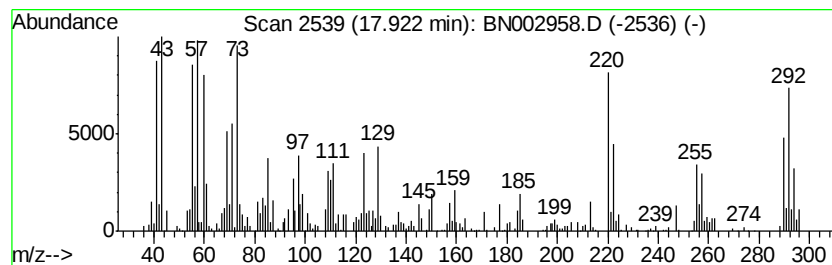
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 2,2',3,6-Tetrachloro-1,1'-b... Concentration Rank 7

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 17.92 | 4.93 ng/ul | 500600 | Phenanthrene-d10 | 17.02 |

| Hit# | of                                  | 5   | Tentative ID | MW          | MolForm | CAS# | Qual |
|------|-------------------------------------|-----|--------------|-------------|---------|------|------|
| 1    | 2,2',3,6-Tetrachloro-1,1'-biphenyl  | 290 | C12H6Cl4     | 070362-45-7 | 99      |      |      |
| 2    | 2,2',4,5-Tetrachloro-1,1'-biphenyl  | 290 | C12H6Cl4     | 070362-47-9 | 98      |      |      |
| 3    | 2,3,3',5-Tetrachloro-1,1'-biphenyl  | 290 | C12H6Cl4     | 070424-67-8 | 98      |      |      |
| 4    | 1,1'-Biphenyl, 2,2',4,4'-tetrach... | 290 | C12H6Cl4     | 002437-79-8 | 98      |      |      |
| 5    | 2,3',4,5'-Tetrachloro-1,1'-biphenyl | 290 | C12H6Cl4     | 073575-52-7 | 97      |      |      |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN100618\  
Data File : BN002958.D  
Acq On : 05 Oct 2018 09:52  
Operator : MJ/SJ  
Sample : J5183-19  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampled :  
JLC32

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN091418MA.M  
Quant Title : SVOA CALIBRATION

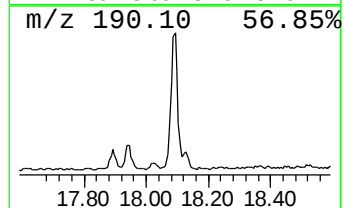
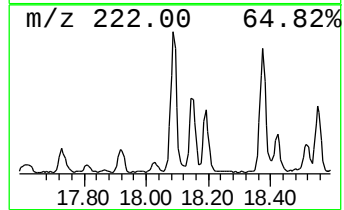
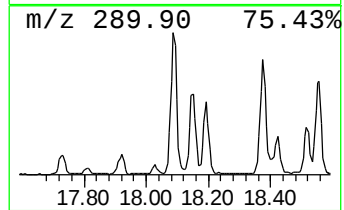
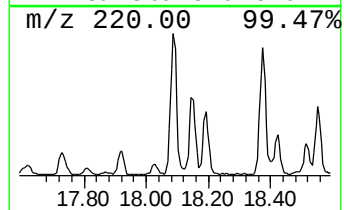
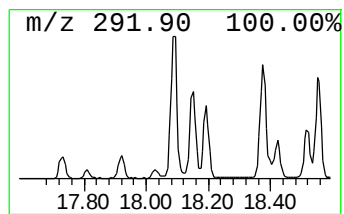
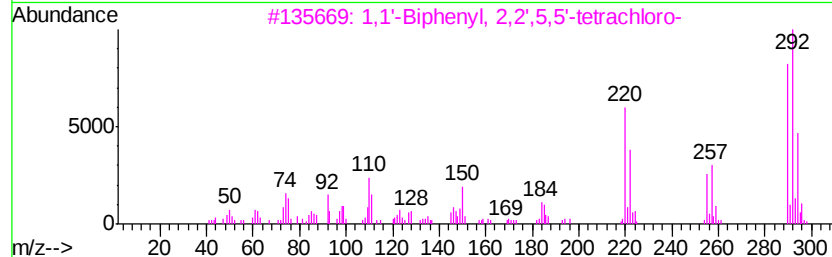
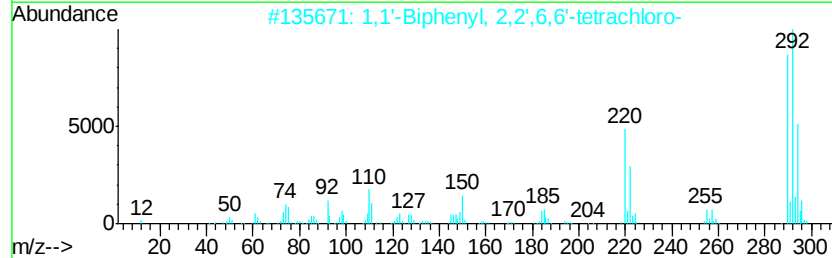
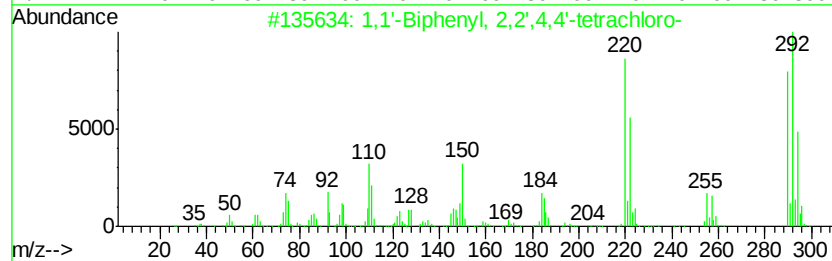
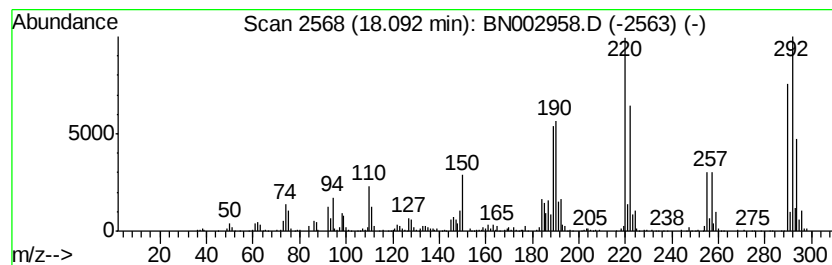
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 1,1'-Biphenyl, 2,2',4,4'-te... Concentration Rank 3

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 18.09 | 11.29 ng/ul | 1146010 | Phenanthrene-d10 | 17.02 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 1,1'-Biphenyl, 2,2',4,4'-tetrach... | 290 | C12H6Cl4 | 002437-79-8 | 99   |
| 2    |    | 1,1'-Biphenyl, 2,2',6,6'-tetrach... | 290 | C12H6Cl4 | 015968-05-5 | 99   |
| 3    |    | 1,1'-Biphenyl, 2,2',5,5'-tetrach... | 290 | C12H6Cl4 | 035693-99-3 | 99   |
| 4    |    | 1,1'-Biphenyl, 2,2',4,6-Tetrachl... | 290 | C12H6Cl4 | 062796-65-0 | 99   |
| 5    |    | 1,1'-Biphenyl, 2,3',4',5-tetrach... | 290 | C12H6Cl4 | 032598-11-1 | 99   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN100618\  
Data File : BN002958.D  
Acq On : 05 Oct 2018 09:52  
Operator : MJ/SJ  
Sample : J5183-19  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

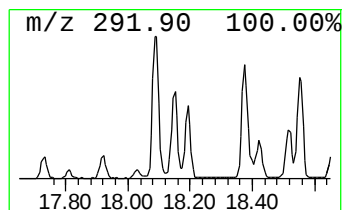
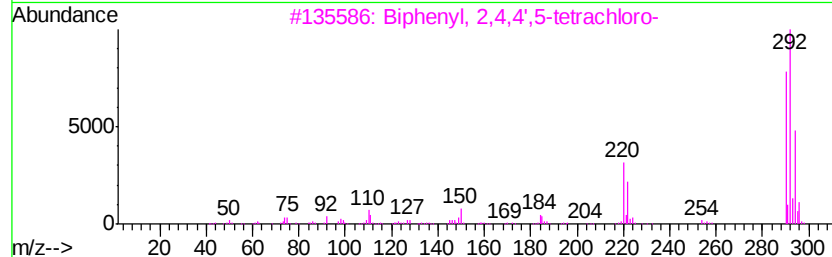
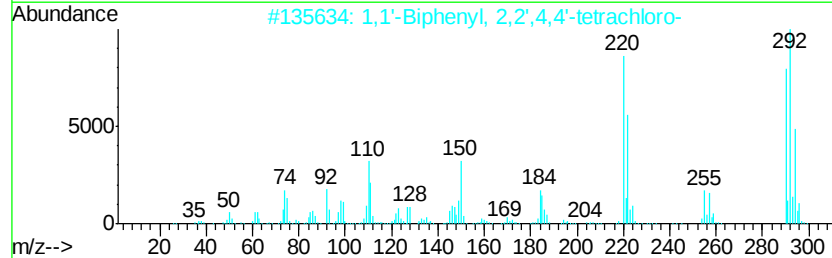
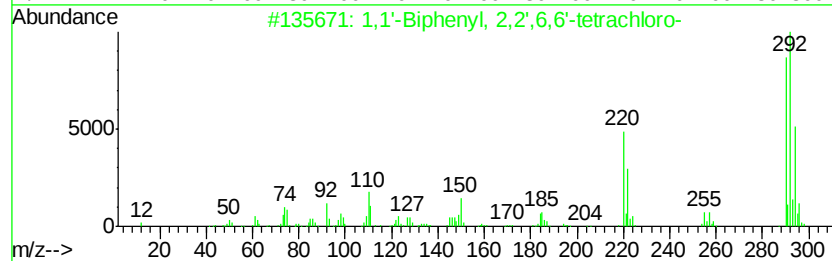
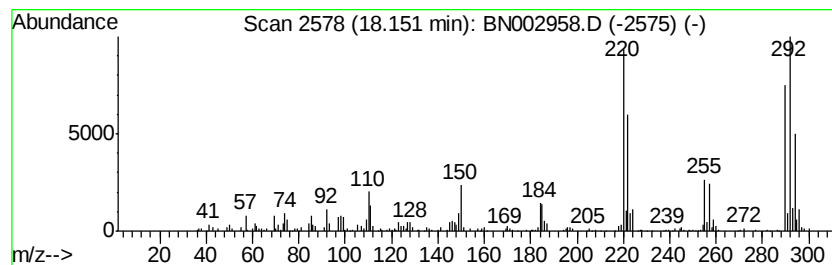
Instrument :  
BNA\_N  
ClientSampleId :  
JLC32

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN091418MA.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 10 1,1'-Biphenyl, 2,2',6,6'-te... Concentration Rank 11

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 18.15     | 3.80 ng/ul                          | 385990 | Phenanthrene-d10 | 17.02       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual |
| 1         | 1,1'-Biphenyl, 2,2',6,6'-tetrach... | 290    | C12H6Cl4         | 015968-05-5 | 99   |
| 2         | 1,1'-Biphenyl, 2,2',4,4'-tetrach... | 290    | C12H6Cl4         | 002437-79-8 | 99   |
| 3         | Biphenyl, 2,4,4',5-tetrachloro-     | 290    | C12H6Cl4         | 032690-93-0 | 99   |
| 4         | 1,1'-Biphenyl, 2,3,3',5'-tetrach... | 290    | C12H6Cl4         | 041464-49-7 | 99   |
| 5         | 2,3,3',6-Tetrachloro-1,1'-biphenyl  | 290    | C12H6Cl4         | 074472-33-6 | 99   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN100618\  
Data File : BN002958.D  
Acq On : 05 Oct 2018 09:52  
Operator : MJ/SJ  
Sample : J5183-19  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
JLC32

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN091418MA.M  
Quant Title : SVOA CALIBRATION

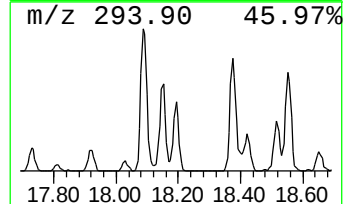
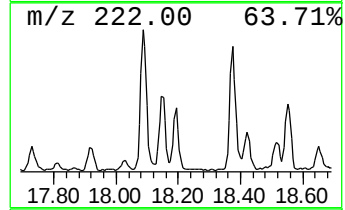
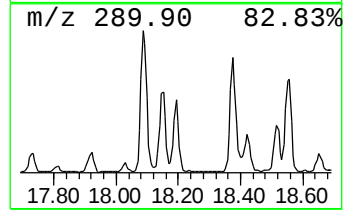
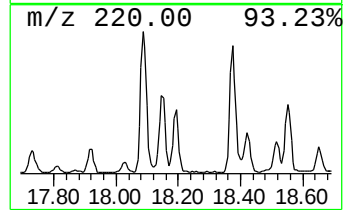
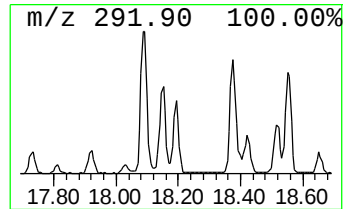
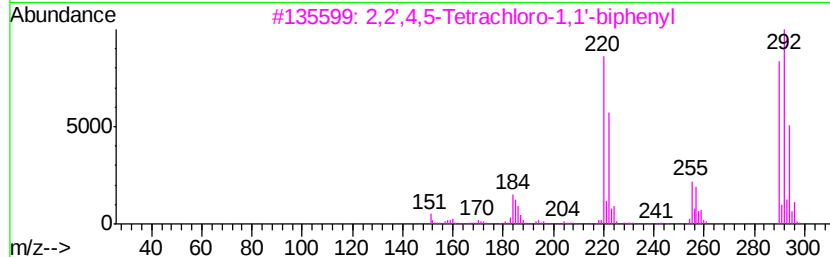
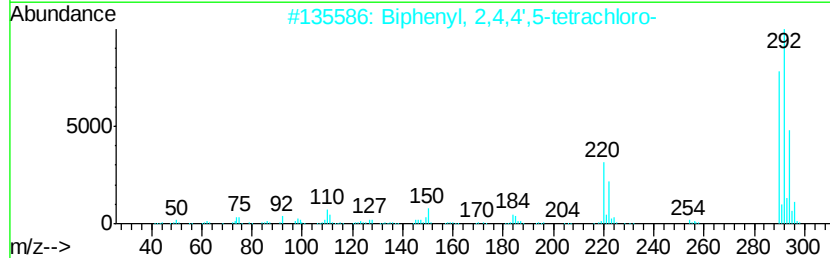
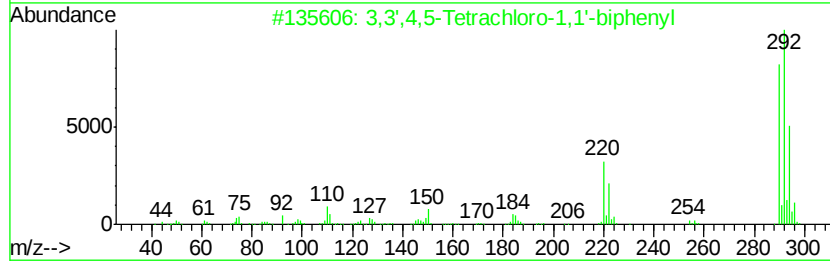
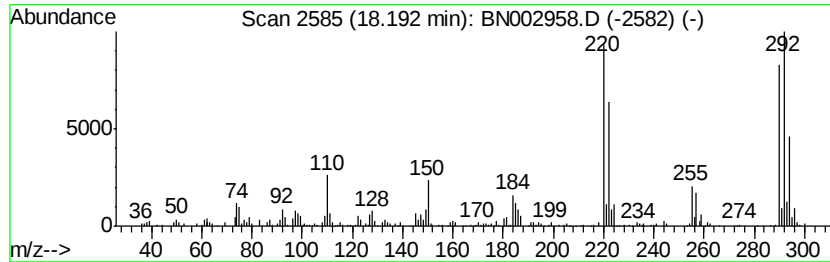
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 3,3',4,5-Tetrachloro-1,1'-b... Concentration Rank 14

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 18.19 | 2.80 ng/ul | 283963 | Phenanthrene-d10 | 17.02 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 3,3',4,5-Tetrachloro-1,1'-biphenyl  | 290 | C12H6Cl4 | 070362-49-1 | 96   |
| 2    |    | Biphenyl, 2,4,4',5-tetrachloro-     | 290 | C12H6Cl4 | 032690-93-0 | 96   |
| 3    |    | 2,2',4,5-Tetrachloro-1,1'-biphenyl  | 290 | C12H6Cl4 | 070362-47-9 | 96   |
| 4    |    | 1,1'-Biphenyl, 2,3,3',4'-tetrach... | 290 | C12H6Cl4 | 041464-43-1 | 96   |
| 5    |    | 1,1'-Biphenyl, 2,3',4,6-Tetrachl... | 290 | C12H6Cl4 | 060233-24-1 | 96   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN100618\  
Data File : BN002958.D  
Acq On : 05 Oct 2018 09:52  
Operator : MJ/SJ  
Sample : J5183-19  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
JLC32

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN091418MA.M  
Quant Title : SVOA CALIBRATION

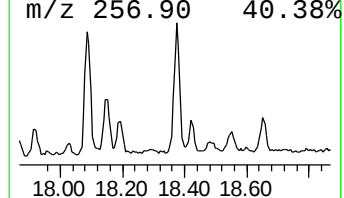
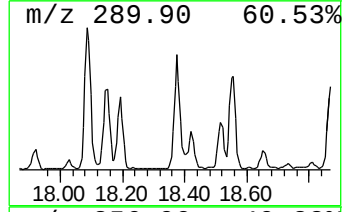
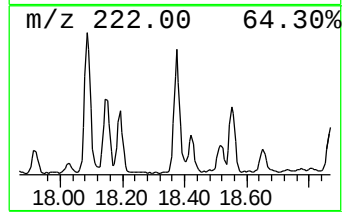
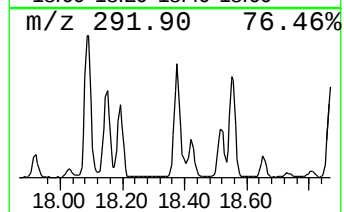
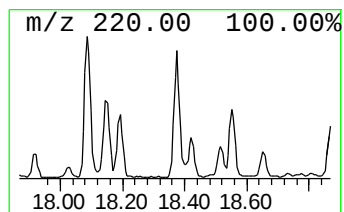
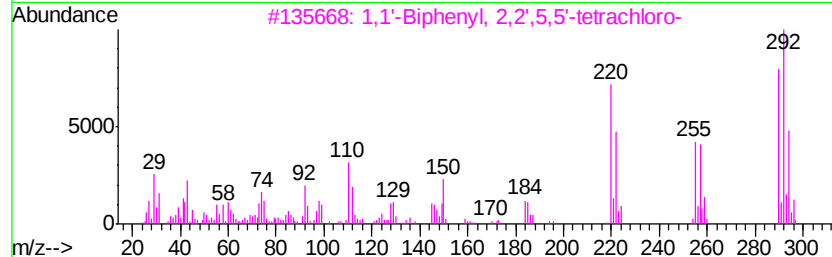
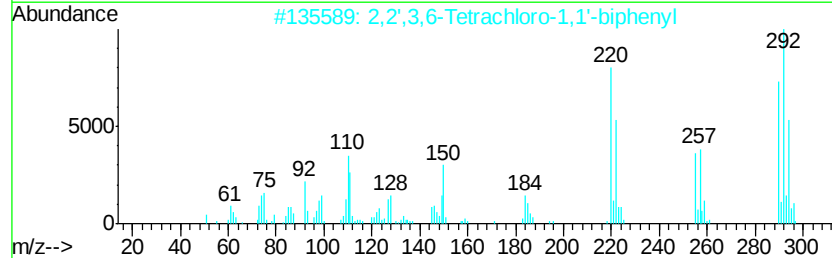
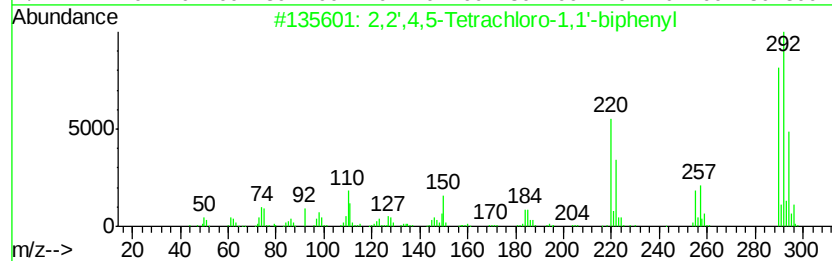
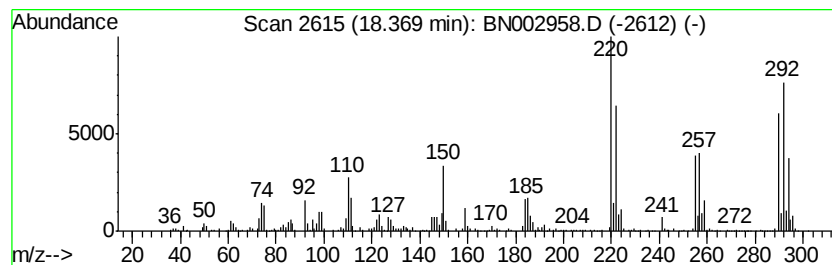
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 12 2,2',4,5-Tetrachloro-1,1'-b... Concentration Rank 4

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 18.37 | 8.44 ng/ul | 857018 | Phenanthrene-d10 | 17.02 |

| Hit# | of                                  | 5   | Tentative ID | MW          | MolForm | CAS# | Qual |
|------|-------------------------------------|-----|--------------|-------------|---------|------|------|
| 1    | 2,2',4,5-Tetrachloro-1,1'-biphenyl  | 290 | C12H6Cl4     | 070362-47-9 | 99      |      |      |
| 2    | 2,2',3,6-Tetrachloro-1,1'-biphenyl  | 290 | C12H6Cl4     | 070362-45-7 | 99      |      |      |
| 3    | 1,1'-Biphenyl, 2,2',5,5'-tetrach... | 290 | C12H6Cl4     | 035693-99-3 | 99      |      |      |
| 4    | 1,1'-Biphenyl, 2,2',5,5'-tetrach... | 290 | C12H6Cl4     | 035693-99-3 | 99      |      |      |
| 5    | 1,1'-Biphenyl, 2,2',4,4'-tetrach... | 290 | C12H6Cl4     | 002437-79-8 | 99      |      |      |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN100618\  
Data File : BN002958.D  
Acq On : 05 Oct 2018 09:52  
Operator : MJ/SJ  
Sample : J5183-19  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
JLC32

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN091418MA.M  
Quant Title : SVOA CALIBRATION

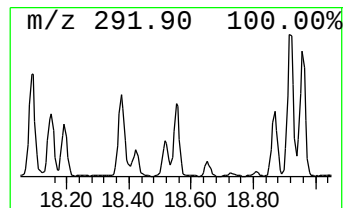
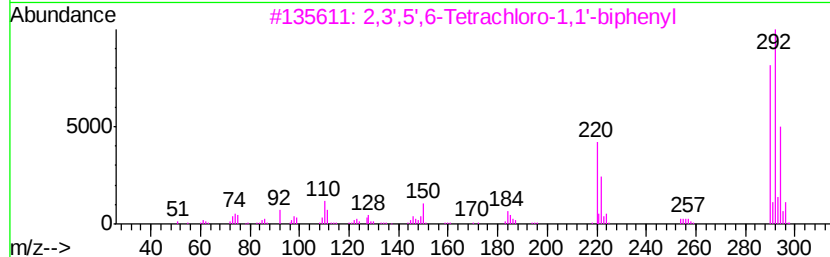
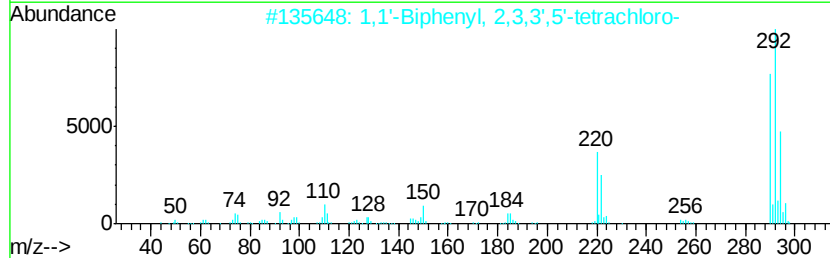
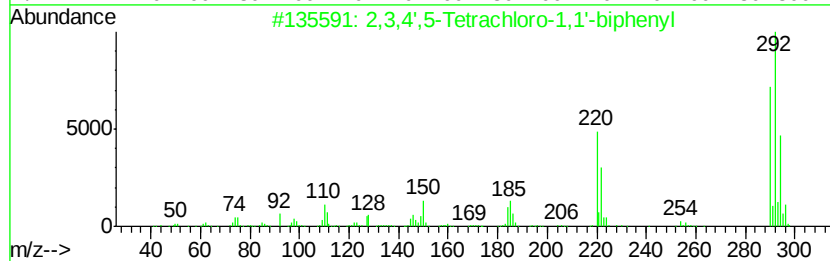
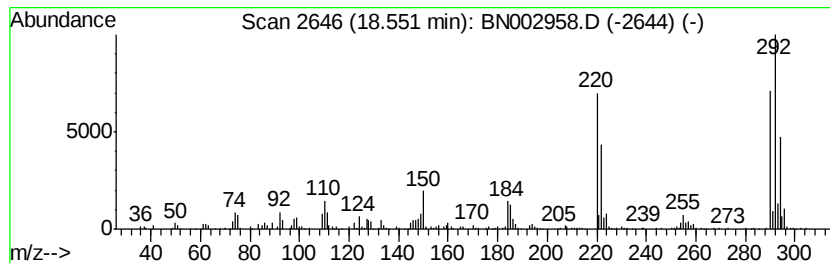
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 13 2,3,4',5-Tetrachloro-1,1'-b... Concentration Rank 9

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 18.55 | 4.09 ng/ul | 415496 | Phenanthrene-d10 | 17.02 |

| Hit# | of                                  | 5   | Tentative ID | MW          | MolForm | CAS# | Qual |
|------|-------------------------------------|-----|--------------|-------------|---------|------|------|
| 1    | 2,3,4',5-Tetrachloro-1,1'-biphenyl  | 290 | C12H6Cl4     | 074472-34-7 | 99      |      |      |
| 2    | 1,1'-Biphenyl, 2,3,3',5'-tetrach... | 290 | C12H6Cl4     | 041464-49-7 | 99      |      |      |
| 3    | 2,3',5',6-Tetrachloro-1,1'-biphenyl | 290 | C12H6Cl4     | 074338-23-1 | 99      |      |      |
| 4    | 1,1'-Biphenyl, 2,3,4,4'-tetrachl... | 290 | C12H6Cl4     | 033025-41-1 | 99      |      |      |
| 5    | 3,3',4,5-Tetrachloro-1,1'-biphenyl  | 290 | C12H6Cl4     | 070362-49-1 | 99      |      |      |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN100618\  
Data File : BN002958.D  
Acq On : 05 Oct 2018 09:52  
Operator : MJ/SJ  
Sample : J5183-19  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
JLC32

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN091418MA.M  
Quant Title : SVOA CALIBRATION

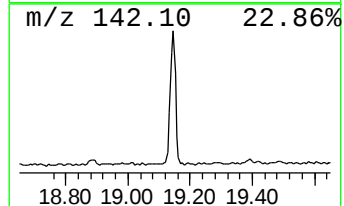
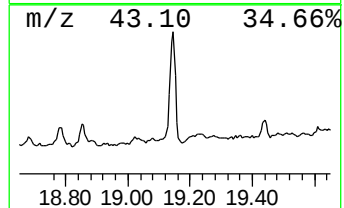
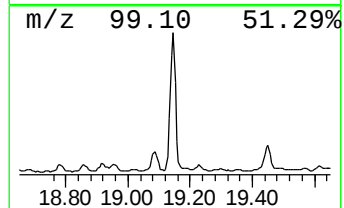
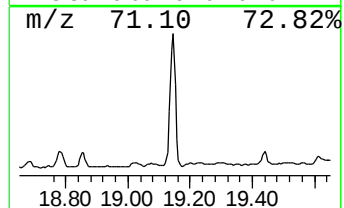
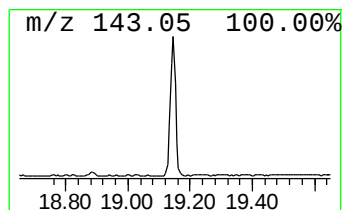
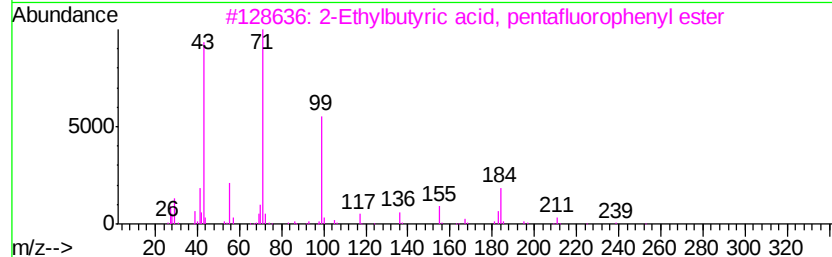
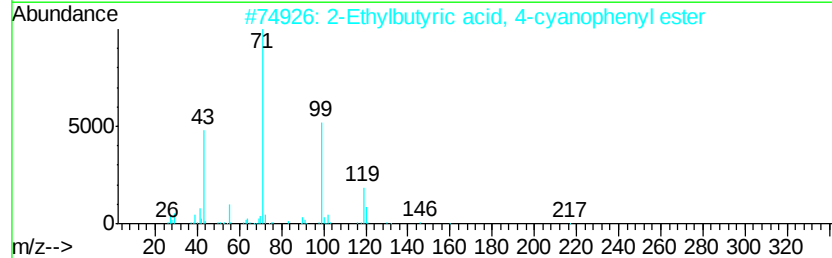
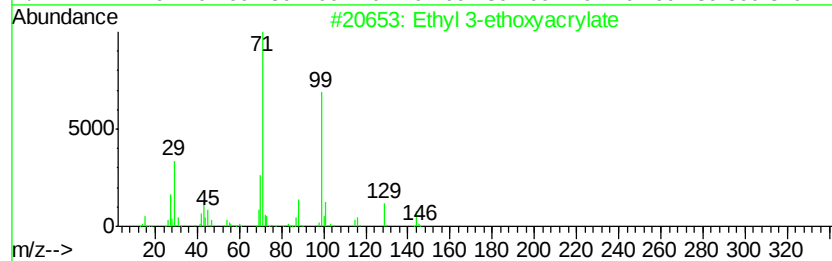
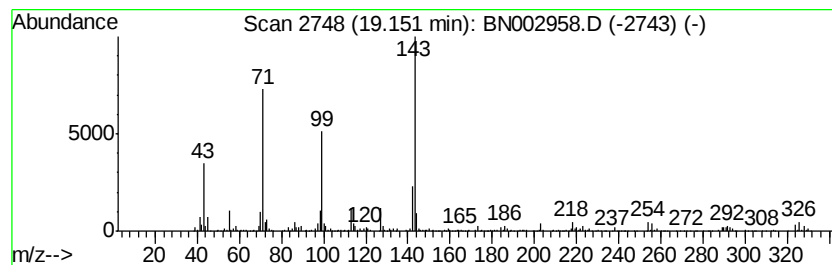
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 15 unknown--01 Concentration Rank 2

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 19.15 | 12.24 ng/ul | 1682560 | Chrysene-d12     | 21.23 |

| Hit# | of | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|-------------------------------------|-----|-------------|--------------|------|
| 1    | 5  | Ethyl 3-ethoxyacrylate              | 144 | C7H12O3     | 001001-26-9  | 35   |
| 2    |    | 2-Ethylbutyric acid, 4-cyanophen... | 217 | C13H15NO2   | 1000369-61-1 | 35   |
| 3    |    | 2-Ethylbutyric acid, pentafluoro... | 282 | C12H11F5O2  | 1000370-22-8 | 35   |
| 4    |    | Butanoic acid, 2-ethyl-, 1,2-eth... | 346 | C18H34O6    | 000095-08-9  | 27   |
| 5    |    | S-carbethoxymethyl-L-cysteine, N... | 262 | C10H18N2O4S | 1000376-18-7 | 27   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN100618\  
Data File : BN002958.D  
Acq On : 05 Oct 2018 09:52  
Operator : MJ/SJ  
Sample : J5183-19  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
JLC32

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN091418MA.M  
Quant Title : SVOA CALIBRATION

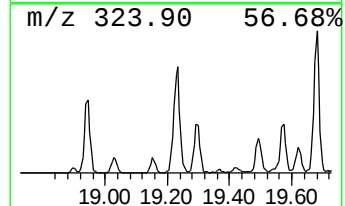
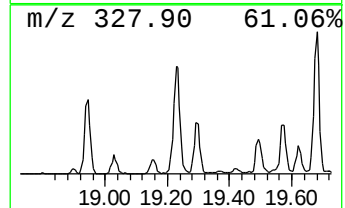
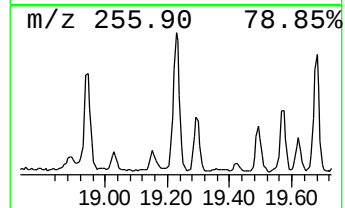
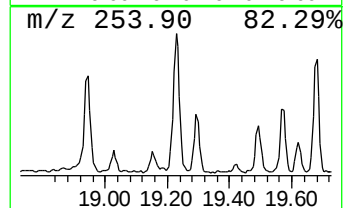
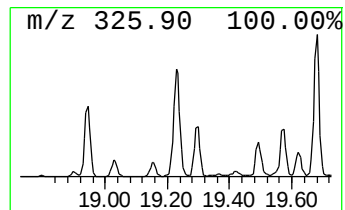
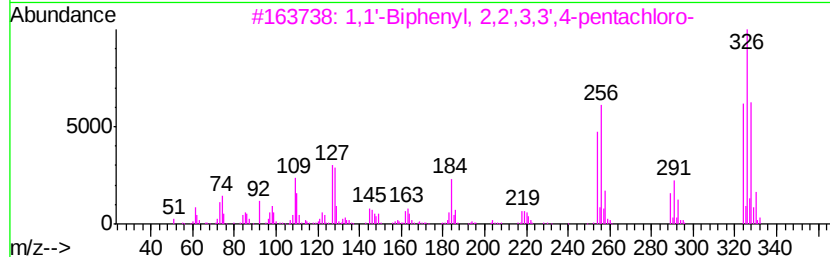
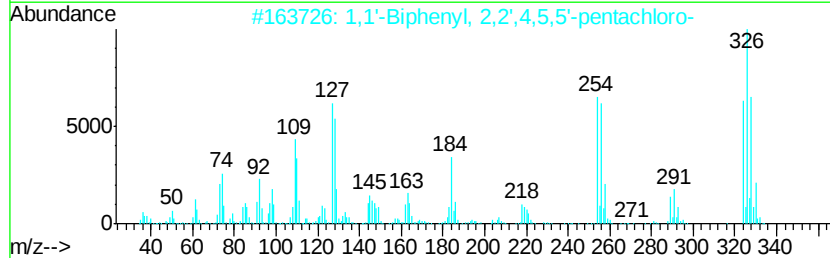
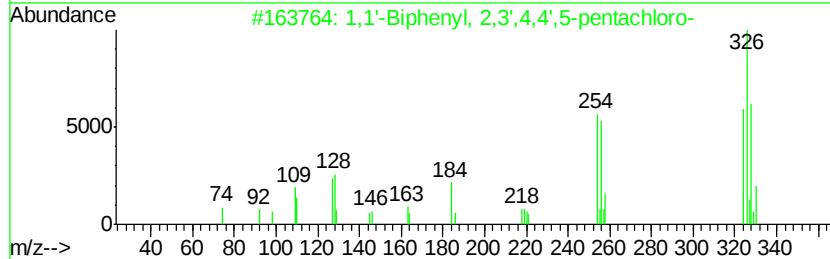
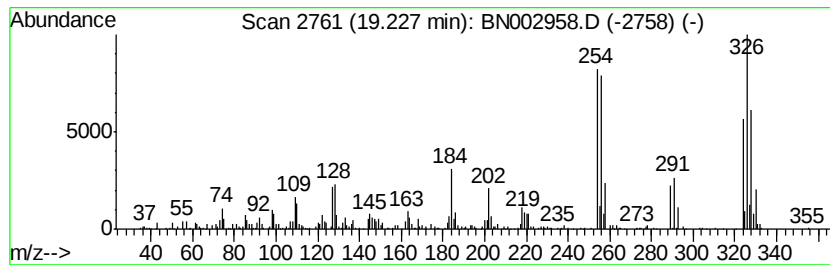
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 16 1,1'-Biphenyl, 2,3',4,4',5-... Concentration Rank 6

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 19.23 | 6.44 ng/ul | 885900 | Chrysene-d12     | 21.23 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 1,1'-Biphenyl, 2,3',4,4',5-penta... | 324 | C12H5Cl5 | 031508-00-6 | 99   |
| 2    |    | 1,1'-Biphenyl, 2,2',4,5,5'-penta... | 324 | C12H5Cl5 | 037680-73-2 | 99   |
| 3    |    | 1,1'-Biphenyl, 2,2',3,3',4-penta... | 324 | C12H5Cl5 | 052663-62-4 | 99   |
| 4    |    | 1,1'-Biphenyl, 2,2',4,5,6'-penta... | 324 | C12H5Cl5 | 068194-06-9 | 99   |
| 5    |    | 1,1'-Biphenyl, 2,2',4,4',6-Penta... | 324 | C12H5Cl5 | 039485-83-1 | 96   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN100618\  
 Data File : BN002958.D  
 Acq On : 05 Oct 2018 09:52  
 Operator : MJ/SJ  
 Sample : J5183-19  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 JLC32

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN091418MA.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 |
| 2,4,7,9-Tetrameth... | 13.16 | 3.3     | ng/ul | 308984   | 3                     | 14.26 | 1851460 | 20.0 |
| (DEL) Alkane: Str... | 15.53 | 2.2     | ng/ul | 202801   | 3                     | 14.26 | 1851460 | 20.0 |
| (DEL) Alkane: Str... | 15.99 | 3.8     | ng/ul | 389375   | 4                     | 17.02 | 2030610 | 20.0 |
| (DEL) Alkane: Str... | 16.78 | 2.5     | ng/ul | 255660   | 4                     | 17.02 | 2030610 | 20.0 |
| (DEL) Alkane: Str... | 16.83 | 3.3     | ng/ul | 339587   | 4                     | 17.02 | 2030610 | 20.0 |
| 1,1'-Biphenyl, 2,... | 16.89 | 4.2     | ng/ul | 421812   | 4                     | 17.02 | 2030610 | 20.0 |
| 1,1'-Biphenyl, 2,... | 17.62 | 12.4    | ng/ul | 1261480  | 4                     | 17.02 | 2030610 | 20.0 |
| 2,2',3,6-Tetrachl... | 17.92 | 4.9     | ng/ul | 500600   | 4                     | 17.02 | 2030610 | 20.0 |
| 1,1'-Biphenyl, 2,... | 18.09 | 11.3    | ng/ul | 1146010  | 4                     | 17.02 | 2030610 | 20.0 |
| 1,1'-Biphenyl, 2,... | 18.15 | 3.8     | ng/ul | 385990   | 4                     | 17.02 | 2030610 | 20.0 |
| 3,3',4,5-Tetrachl... | 18.19 | 2.8     | ng/ul | 283963   | 4                     | 17.02 | 2030610 | 20.0 |
| 2,2',4,5-Tetrachl... | 18.37 | 8.4     | ng/ul | 857018   | 4                     | 17.02 | 2030610 | 20.0 |
| 2,3,4',5-Tetrachl... | 18.55 | 4.1     | ng/ul | 415496   | 4                     | 17.02 | 2030610 | 20.0 |
| unknown--01          | 19.15 | 12.2    | ng/ul | 1682560  | 5                     | 21.23 | 2749810 | 20.0 |
| 1,1'-Biphenyl, 2,... | 19.23 | 6.4     | ng/ul | 885900   | 5                     | 21.23 | 2749810 | 20.0 |