

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM040819\  
 Data File : BM019813.D  
 Acq On : 09 Apr 2019 02:18  
 Operator : JU/SJ  
 Sample : K2254-19  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BFC40

## 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\_M\METHODS\SOM-EPA-BM032219MA.M  
 Title : SVOA CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1      | 3.116    | 19         | 22       | 31        | rVB   | 45112       | 63866      | 0.19%        | 0.059%     |
| 2      | 6.751    | 634        | 640      | 653       | rBV   | 220207      | 466828     | 1.40%        | 0.431%     |
| 3      | 6.910    | 662        | 667      | 680       | rBV   | 221943      | 422757     | 1.27%        | 0.391%     |
| 4      | 7.092    | 692        | 698      | 710       | rBV   | 336391      | 560121     | 1.68%        | 0.518%     |
| 5      | 7.557    | 770        | 777      | 785       | rBV   | 582677      | 938576     | 2.82%        | 0.867%     |
| 6      | 8.281    | 893        | 900      | 910       | rBV   | 272786      | 553434     | 1.66%        | 0.511%     |
| 7      | 8.728    | 970        | 976      | 989       | rBV   | 282372      | 541918     | 1.63%        | 0.501%     |
| 8      | 9.439    | 1090       | 1097     | 1108      | rBV   | 239012      | 469860     | 1.41%        | 0.434%     |
| 9      | 9.728    | 1136       | 1146     | 1153      | rBV9  | 20103       | 51026      | 0.15%        | 0.047%     |
| 10     | 9.980    | 1182       | 1189     | 1204      | rBV   | 276627      | 636524     | 1.91%        | 0.588%     |
| 11     | 10.275   | 1233       | 1239     | 1243      | rBV   | 31772       | 53258      | 0.16%        | 0.049%     |
| 12     | 10.333   | 1243       | 1249     | 1262      | rVB   | 799834      | 1352939    | 4.07%        | 1.250%     |
| 13     | 10.510   | 1273       | 1279     | 1299      | rBV   | 161349      | 429213     | 1.29%        | 0.397%     |
| 14     | 11.733   | 1480       | 1487     | 1494      | rBV2  | 55338       | 92962      | 0.28%        | 0.086%     |
| 15     | 12.016   | 1530       | 1535     | 1545      | rBV3  | 15705       | 39936      | 0.12%        | 0.037%     |
| 16     | 12.492   | 1612       | 1616     | 1620      | rBV4  | 20840       | 37671      | 0.11%        | 0.035%     |
| 17     | 12.704   | 1649       | 1652     | 1656      | rBV   | 27937       | 37134      | 0.11%        | 0.034%     |
| 18     | 13.004   | 1697       | 1703     | 1709      | rBV   | 71773       | 103384     | 0.31%        | 0.096%     |
| 19     | 13.533   | 1788       | 1793     | 1797      | rBV5  | 23167       | 41009      | 0.12%        | 0.038%     |
| 20     | 13.639   | 1806       | 1811     | 1815      | rBV   | 628846      | 884114     | 2.66%        | 0.817%     |
| 21     | 13.686   | 1816       | 1819     | 1823      | rVB   | 133170      | 183619     | 0.55%        | 0.170%     |
| 22     | 13.857   | 1844       | 1848     | 1852      | rVV3  | 103069      | 153114     | 0.46%        | 0.141%     |
| 23     | 13.910   | 1852       | 1857     | 1868      | rVV   | 833601      | 1269214    | 3.81%        | 1.173%     |
| 24     | 14.015   | 1872       | 1875     | 1882      | rVB5  | 57335       | 92029      | 0.28%        | 0.085%     |
| 25     | 14.098   | 1884       | 1889     | 1896      | rBV2  | 96892       | 185950     | 0.56%        | 0.172%     |
| 26     | 14.221   | 1903       | 1910     | 1916      | rBV2  | 985211      | 1590238    | 4.78%        | 1.470%     |
| 27     | 14.504   | 1952       | 1958     | 1968      | rBV5  | 70586       | 234509     | 0.70%        | 0.217%     |
| 28     | 14.651   | 1979       | 1983     | 1989      | rVB   | 372977      | 487136     | 1.46%        | 0.450%     |
| 29     | 14.839   | 2011       | 2015     | 2021      | rVB   | 87207       | 130149     | 0.39%        | 0.120%     |
| 30     | 14.986   | 2036       | 2040     | 2043      | rBV2  | 66820       | 94578      | 0.28%        | 0.087%     |
| 31     | 15.057   | 2048       | 2052     | 2056      | rVV   | 146219      | 172978     | 0.52%        | 0.160%     |
| 32     | 15.221   | 2074       | 2080     | 2087      | rBV   | 1000994     | 1456135    | 4.38%        | 1.346%     |
| 33     | 15.380   | 2103       | 2107     | 2112      | rBV3  | 109315      | 170298     | 0.51%        | 0.157%     |
| 34     | 15.927   | 2196       | 2200     | 2201      | rBV2  | 295818      | 362829     | 1.09%        | 0.335%     |

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Sampling : 1  
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Filtering: 5  
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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\_M\METHODS\SOM-EPA-BM032219MA.M  
Title : SVOA CALIBRATION

|    |        |      |      |      |      |          |          |         |         |
|----|--------|------|------|------|------|----------|----------|---------|---------|
| 35 | 16.262 | 2254 | 2257 | 2261 | rBV4 | 95078    | 152863   | 0.46%   | 0.141%  |
| 36 | 16.380 | 2274 | 2277 | 2281 | rBV  | 151689   | 201946   | 0.61%   | 0.187%  |
| 37 | 16.715 | 2331 | 2334 | 2337 | rBV  | 315771   | 376959   | 1.13%   | 0.348%  |
| 38 | 16.768 | 2338 | 2343 | 2347 | rVB  | 411211   | 618984   | 1.86%   | 0.572%  |
| 39 | 16.980 | 2374 | 2379 | 2383 | rBV  | 1308411  | 1738582  | 5.22%   | 1.607%  |
| 40 | 17.021 | 2383 | 2386 | 2391 | rVV  | 227113   | 347130   | 1.04%   | 0.321%  |
| 41 | 17.080 | 2391 | 2396 | 2403 | rVB  | 1028439  | 1457085  | 4.38%   | 1.347%  |
| 42 | 17.315 | 2434 | 2436 | 2440 | rBV5 | 84743    | 99277    | 0.30%   | 0.092%  |
| 43 | 17.374 | 2443 | 2446 | 2453 | rVV4 | 167167   | 309811   | 0.93%   | 0.286%  |
| 44 | 17.456 | 2457 | 2460 | 2464 | rVV  | 381528   | 442240   | 1.33%   | 0.409%  |
| 45 | 17.874 | 2527 | 2531 | 2534 | rBV3 | 579841   | 798493   | 2.40%   | 0.738%  |
| 46 | 18.156 | 2576 | 2579 | 2585 | rBV  | 397079   | 482530   | 1.45%   | 0.446%  |
| 47 | 18.798 | 2685 | 2688 | 2692 | rBV  | 474882   | 589670   | 1.77%   | 0.545%  |
| 48 | 19.168 | 2748 | 2751 | 2758 | rBV3 | 712011   | 1403610  | 4.22%   | 1.297%  |
| 49 | 19.386 | 2785 | 2788 | 2792 | rBV2 | 1595389  | 2115337  | 6.36%   | 1.955%  |
| 50 | 19.556 | 2813 | 2817 | 2819 | rBV  | 1103253  | 1518159  | 4.56%   | 1.403%  |
| 51 | 21.044 | 3067 | 3070 | 3076 | rBV2 | 2866809  | 5120097  | 15.38%  | 4.732%  |
| 52 | 21.097 | 3077 | 3079 | 3084 | rVB  | 3547225  | 3804370  | 11.43%  | 3.516%  |
| 53 | 21.474 | 3139 | 3143 | 3149 | rBV  | 8495665  | 12123857 | 36.43%  | 11.204% |
| 54 | 21.550 | 3150 | 3156 | 3160 | rBV  | 6828808  | 13852638 | 41.62%  | 12.802% |
| 55 | 21.744 | 3185 | 3189 | 3198 | rVB2 | 6167038  | 13015056 | 39.11%  | 12.028% |
| 56 | 21.991 | 3226 | 3231 | 3242 | rBV  | 13754228 | 33280559 | 100.00% | 30.756% |

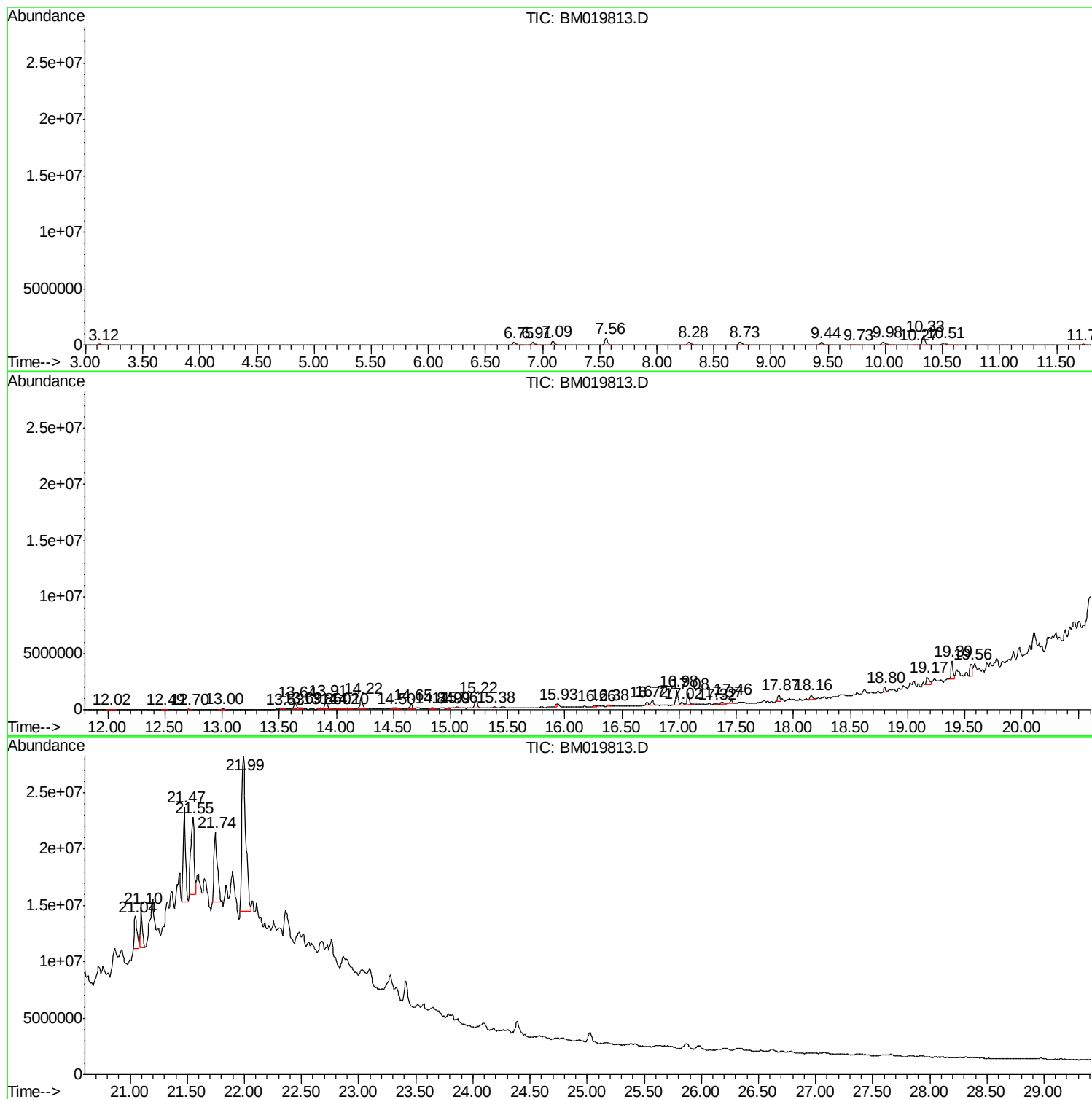
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM032219MA.M  
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM032219MA.M  
Quant Title : SVOA CALIBRATION

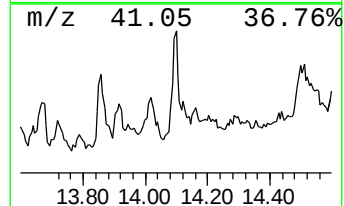
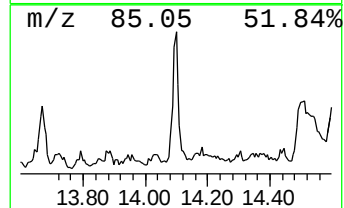
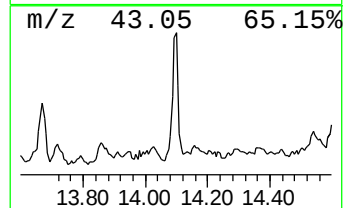
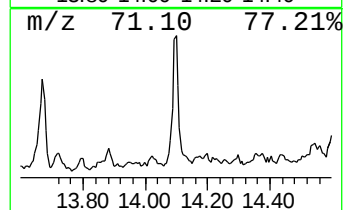
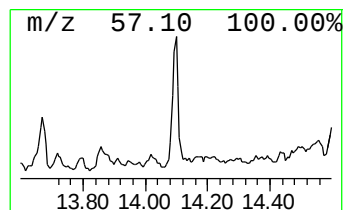
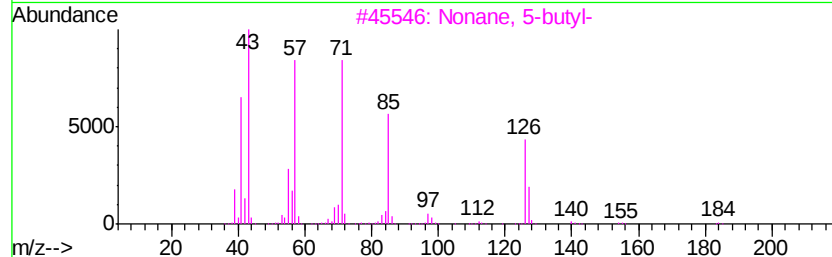
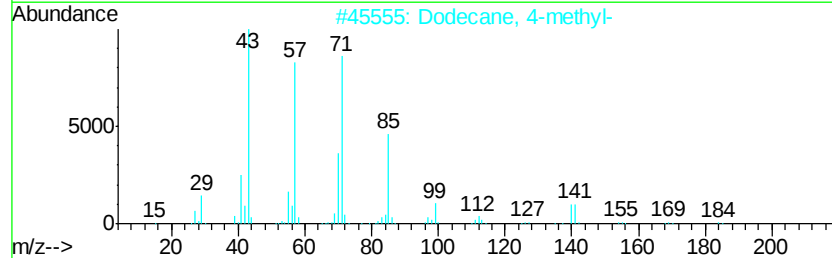
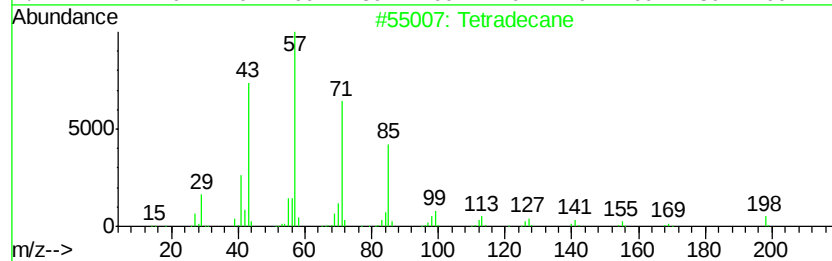
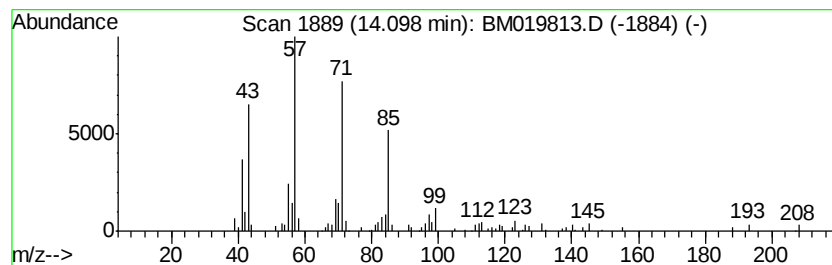
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 18

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 14.10 | 2.34 ng/ul | 185950 | Acenaphthene-d10 | 14.22 |

| Hit# | of | 5 | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------|-----|---------|-------------|------|
| 1    |    |   | Tetradecane            | 198 | C14H30  | 000629-59-4 | 80   |
| 2    |    |   | Dodecane, 4-methyl-    | 184 | C13H28  | 006117-97-1 | 72   |
| 3    |    |   | Nonane, 5-butyl-       | 184 | C13H28  | 017312-63-9 | 64   |
| 4    |    |   | Heptadecane, 8-methyl- | 254 | C18H38  | 013287-23-5 | 64   |
| 5    |    |   | Tetradecane            | 198 | C14H30  | 000629-59-4 | 49   |





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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM032219MA.M  
Quant Title : SVOA CALIBRATION

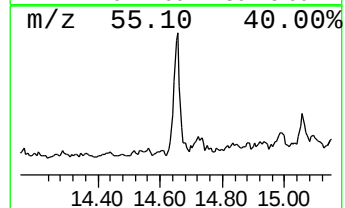
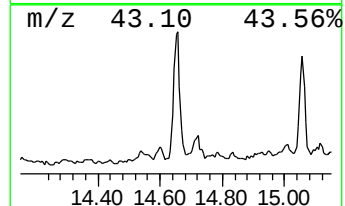
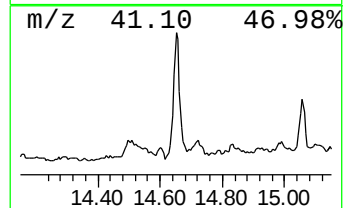
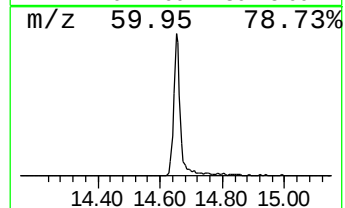
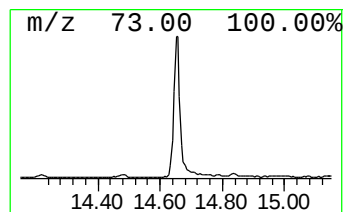
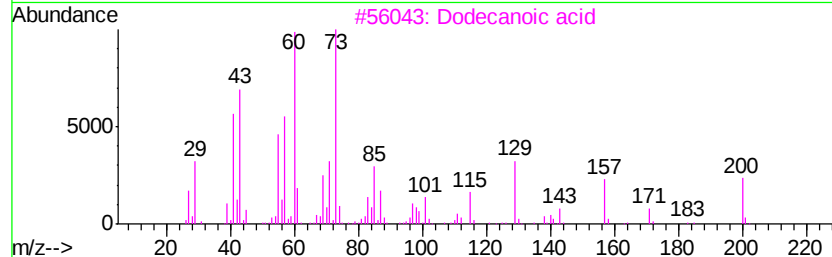
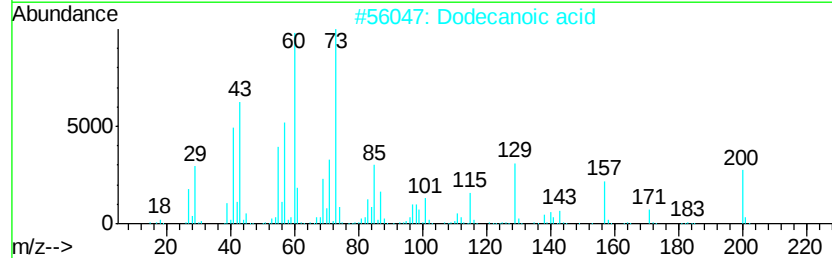
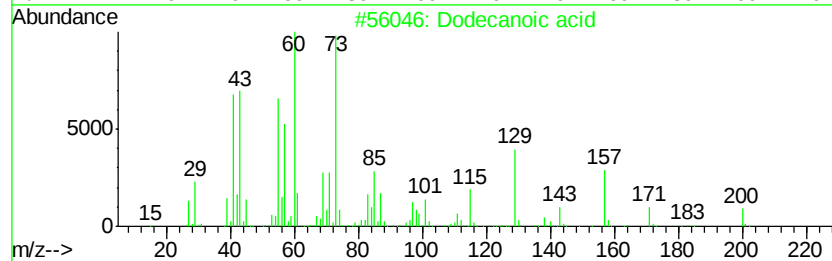
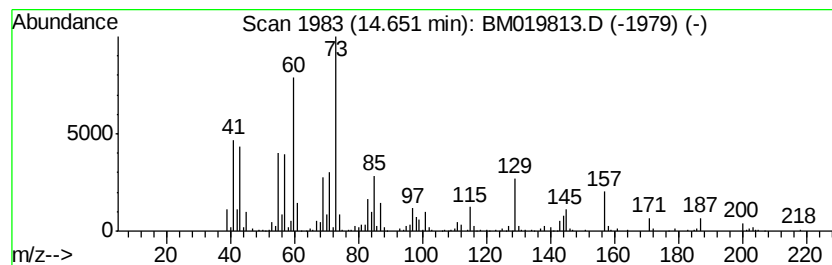
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 Dodecanoic acid Concentration Rank 11

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 14.65 | 6.13 ng/ul | 487136 | Acenaphthene-d10 | 14.22 |

| Hit# | of | Tentative ID     | MW  | MolForm  | CAS#        | Qual |
|------|----|------------------|-----|----------|-------------|------|
| 1    | 5  | Dodecanoic acid  | 200 | C12H24O2 | 000143-07-7 | 91   |
| 2    |    | Dodecanoic acid  | 200 | C12H24O2 | 000143-07-7 | 90   |
| 3    |    | Dodecanoic acid  | 200 | C12H24O2 | 000143-07-7 | 86   |
| 4    |    | Undecanoic acid  | 186 | C11H22O2 | 000112-37-8 | 72   |
| 5    |    | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 64   |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM032219MA.M  
Quant Title : SVOA CALIBRATION

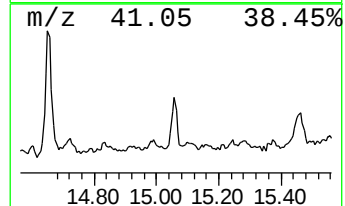
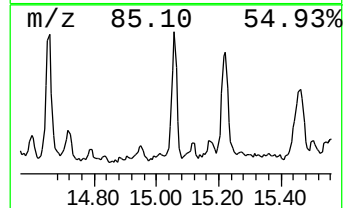
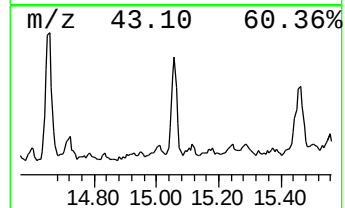
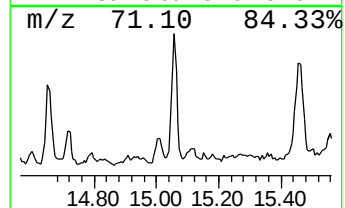
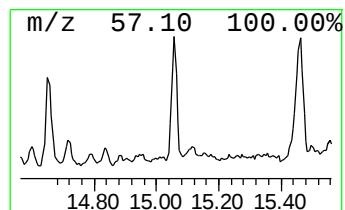
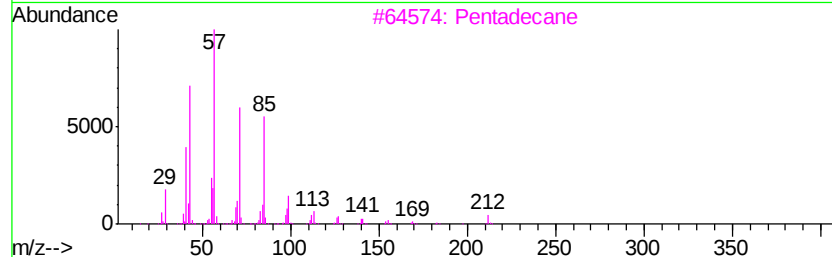
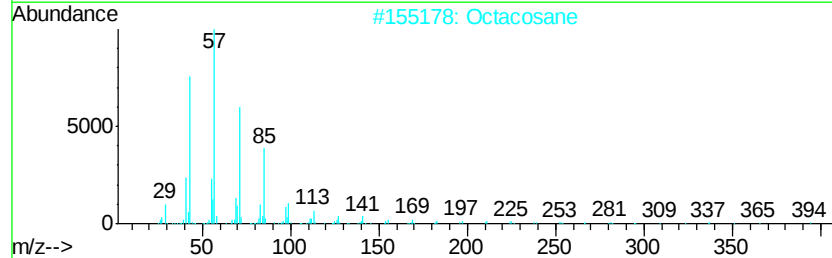
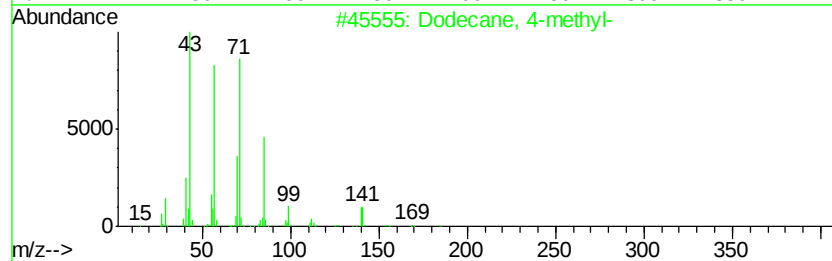
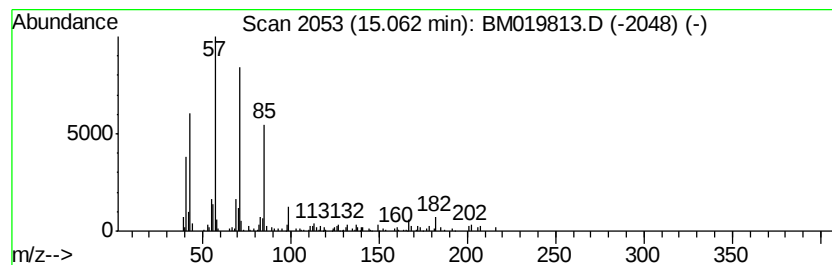
TIC Library : C:\DATABASE\NIST02.L  
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Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 20

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 15.06 | 2.18 ng/ul | 172978 | Acenaphthene-d10 | 14.22 |

| Hit# | of | Tentative ID            | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------|-----|----------|-------------|------|
| 1    | 5  | Dodecane, 4-methyl-     | 184 | C13H28   | 006117-97-1 | 78   |
| 2    |    | Octacosane              | 394 | C28H58   | 000630-02-4 | 72   |
| 3    |    | Pentadecane             | 212 | C15H32   | 000629-62-9 | 58   |
| 4    |    | Heptano-dibutyryn       | 344 | C18H32O6 | 065235-13-4 | 53   |
| 5    |    | Undecane, 4,5-dimethyl- | 184 | C13H28   | 017312-79-7 | 50   |



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Quant Title : SVOA CALIBRATION

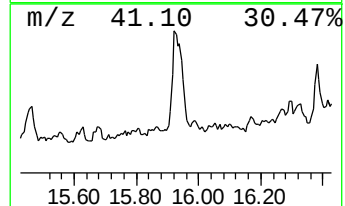
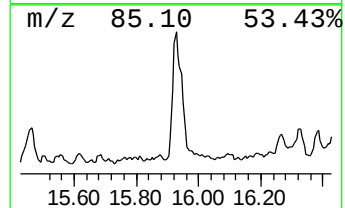
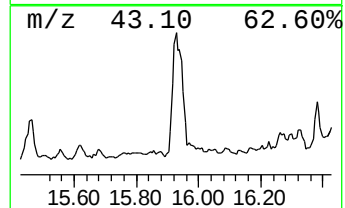
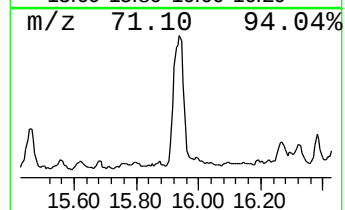
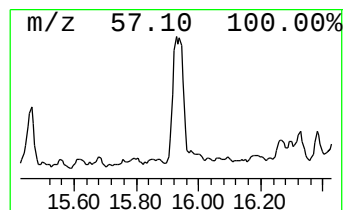
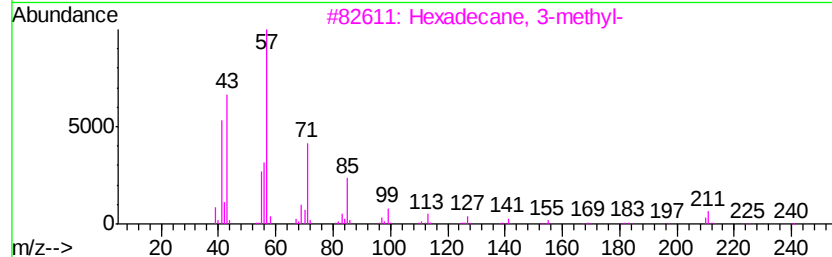
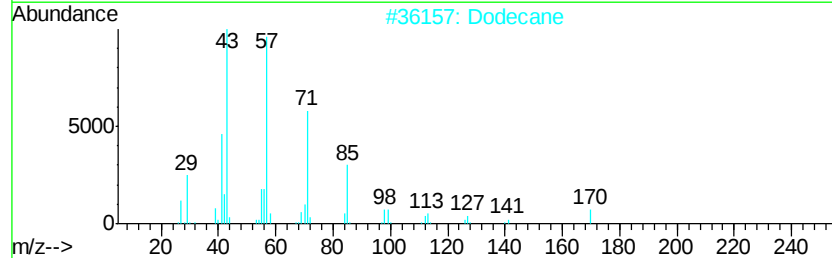
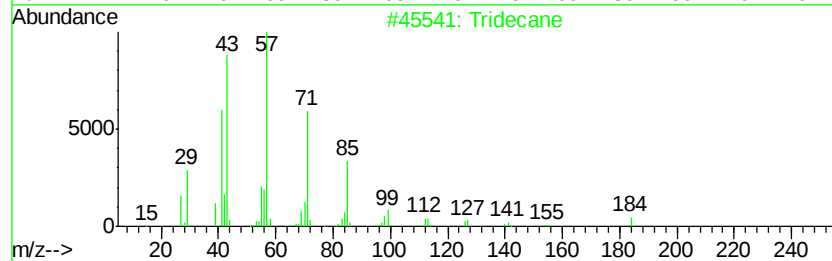
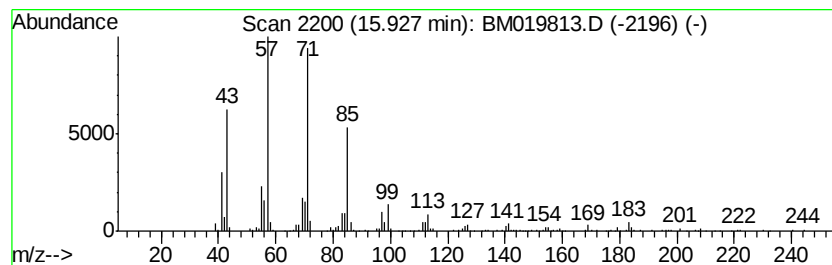
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 15

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 15.93 | 4.17 ng/ul | 362829 | Phenanthrene-d10 | 16.98 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Tridecane             | 184 | C13H28  | 000629-50-5 | 86   |
| 2    |    | Dodecane              | 170 | C12H26  | 000112-40-3 | 83   |
| 3    |    | Hexadecane, 3-methyl- | 240 | C17H36  | 006418-43-5 | 81   |
| 4    |    | Heptacosane           | 380 | C27H56  | 000593-49-7 | 80   |
| 5    |    | Tridecane, 4-methyl-  | 198 | C14H30  | 026730-12-1 | 80   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM040819\  
Data File : BM019813.D  
Acq On : 09 Apr 2019 02:18  
Operator : JU/SJ  
Sample : K2254-19  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

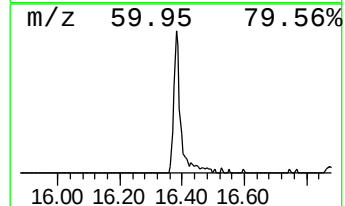
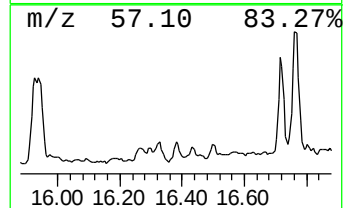
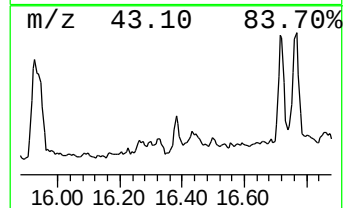
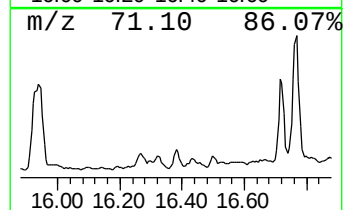
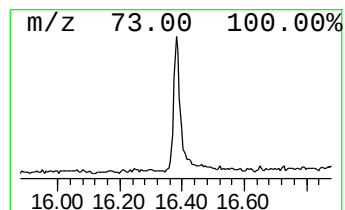
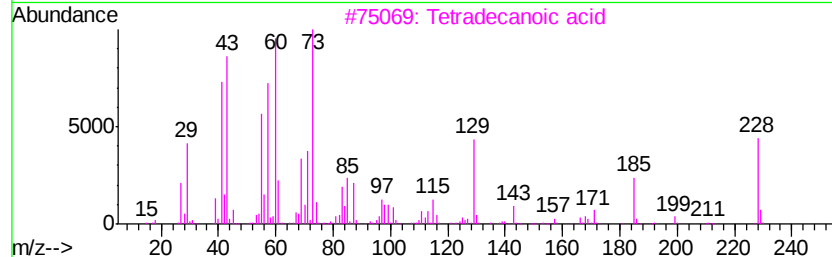
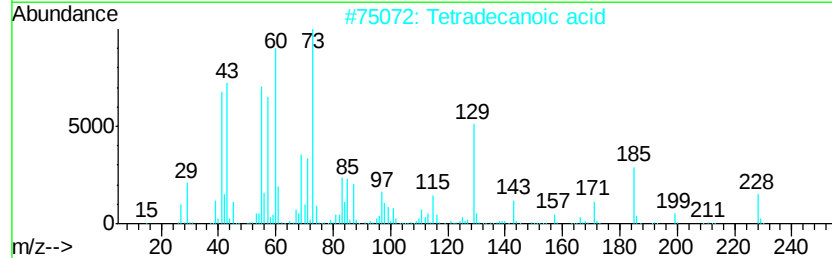
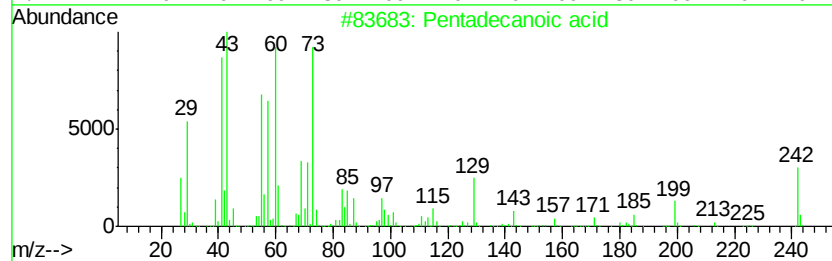
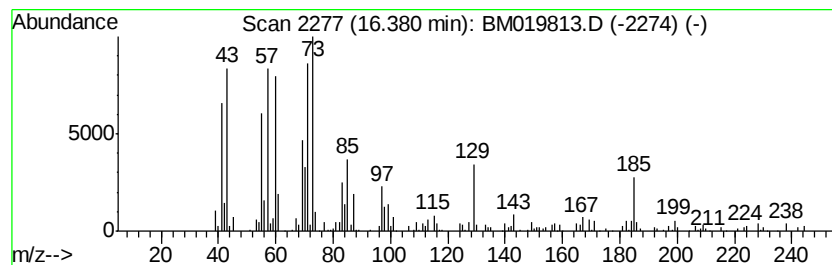
Instrument :  
BNA\_M  
ClientSampleId :  
BFC40

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM032219MA.M  
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Pentadecanoic acid Concentration Rank 19

| R.T.    | EstConc    | Area               | Relative to ISTD | R.T.           |
|---------|------------|--------------------|------------------|----------------|
| 16.38   | 2.32 ng/ul | 201946             | Phenanthrene-d10 | 16.98          |
| Hit# of | 5          | Tentative ID       | MW MolForm       | CAS# Qual      |
| 1       |            | Pentadecanoic acid | 242 C15H30O2     | 001002-84-2 78 |
| 2       |            | Tetradecanoic acid | 228 C14H28O2     | 000544-63-8 64 |
| 3       |            | Tetradecanoic acid | 228 C14H28O2     | 000544-63-8 64 |
| 4       |            | Tetradecanoic acid | 228 C14H28O2     | 000544-63-8 64 |
| 5       |            | Undecanoic acid    | 186 C11H22O2     | 000112-37-8 55 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM040819\  
Data File : BM019813.D  
Acq On : 09 Apr 2019 02:18  
Operator : JU/SJ  
Sample : K2254-19  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

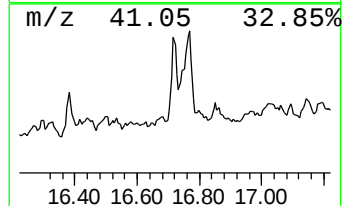
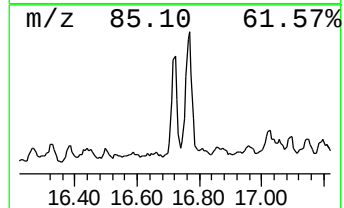
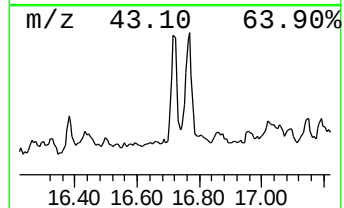
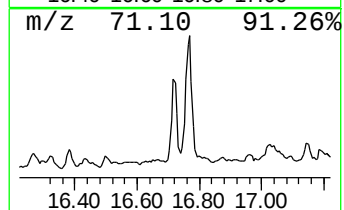
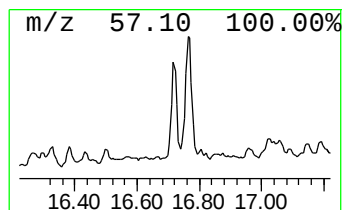
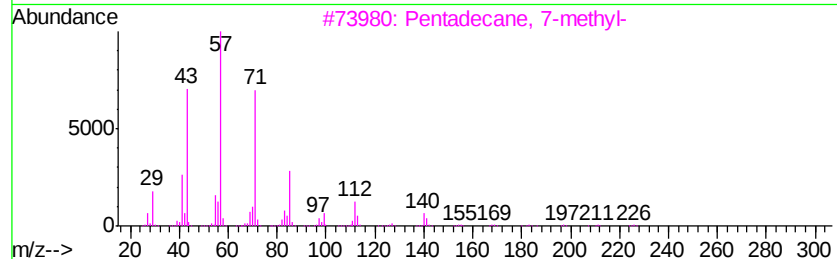
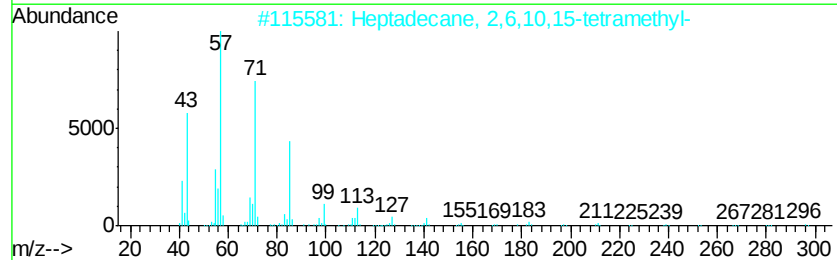
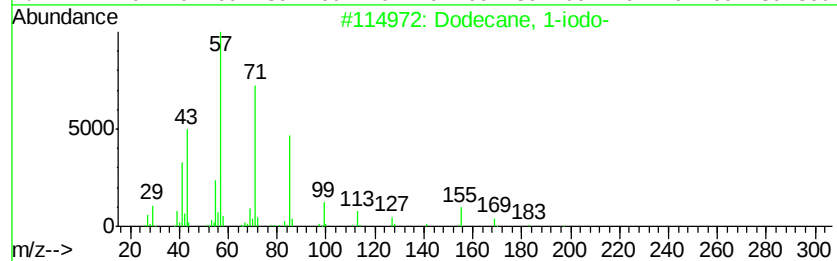
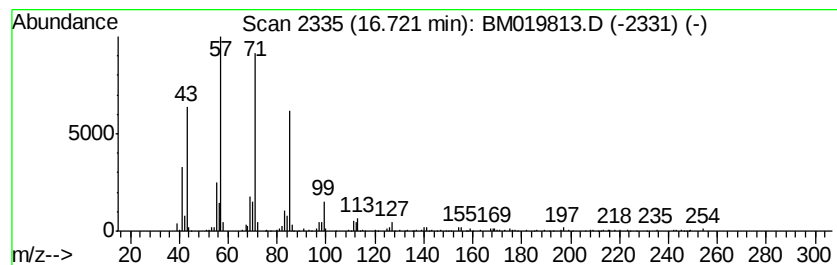
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ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM032219MA.M  
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Dodecane, 1-iodo- Concentration Rank 14

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 16.72     | 4.34 ng/ul                          | 376959 | Phenanthrene-d10 | 16.98       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual |
| 1         | Dodecane, 1-iodo-                   | 296    | C12H25I          | 004292-19-7 | 87   |
| 2         | Heptadecane, 2,6,10,15-tetramethyl- | 296    | C21H44           | 054833-48-6 | 80   |
| 3         | Pentadecane, 7-methyl-              | 226    | C16H34           | 006165-40-8 | 64   |
| 4         | Hexadecane, 7,9-dimethyl-           | 254    | C18H38           | 021164-95-4 | 62   |
| 5         | Dodecane, 2,7,10-trimethyl-         | 212    | C15H32           | 074645-98-0 | 59   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM040819\  
Data File : BM019813.D  
Acq On : 09 Apr 2019 02:18  
Operator : JU/SJ  
Sample : K2254-19  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BFC40

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM032219MA.M  
Quant Title : SVOA CALIBRATION

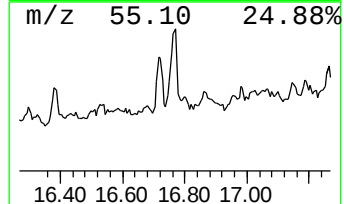
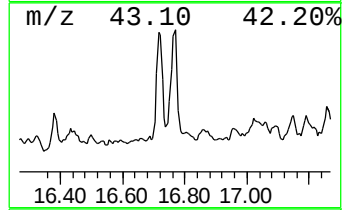
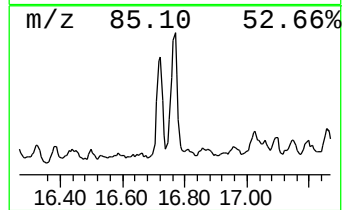
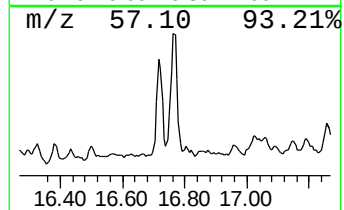
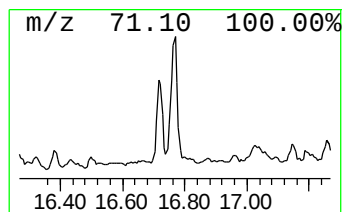
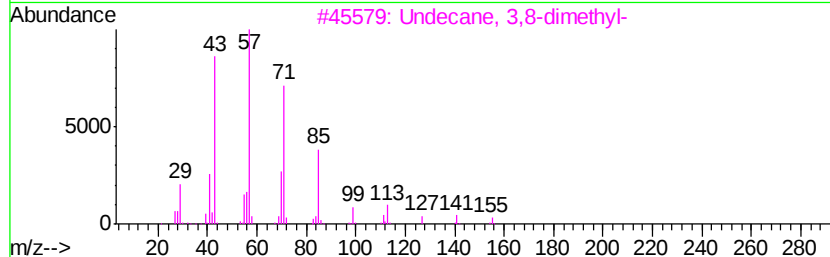
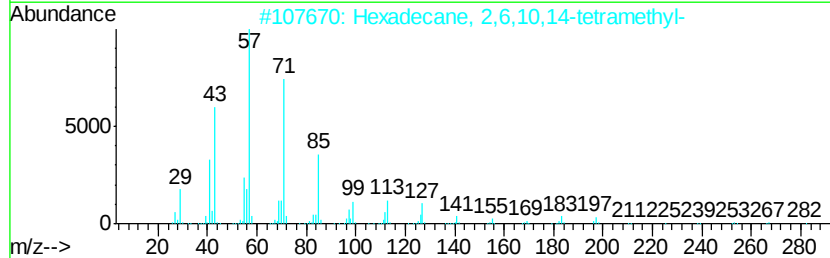
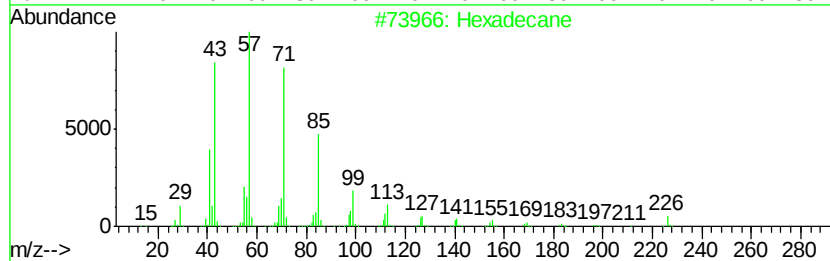
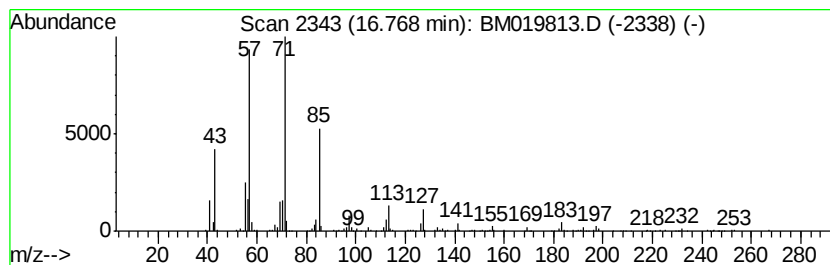
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 (DEL) Alkane: Straight-Chai... Concentration Rank 9

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 16.77 | 7.12 ng/ul | 618984 | Phenanthrene-d10 | 16.98 |

| Hit# | of | Tentative ID                       | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Hexadecane                         | 226 | C16H34  | 000544-76-3 | 87   |
| 2    |    | Hexadecane, 2,6,10,14-tetramethyl- | 282 | C20H42  | 000638-36-8 | 80   |
| 3    |    | Undecane, 3,8-dimethyl-            | 184 | C13H28  | 017301-30-3 | 78   |
| 4    |    | Nonane, 3,7-dimethyl-              | 156 | C11H24  | 017302-32-8 | 64   |
| 5    |    | Dodecane, 2,7,10-trimethyl-        | 212 | C15H32  | 074645-98-0 | 64   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM040819\  
Data File : BM019813.D  
Acq On : 09 Apr 2019 02:18  
Operator : JU/SJ  
Sample : K2254-19  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampled :  
BFC40

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM032219MA.M  
Quant Title : SVOA CALIBRATION

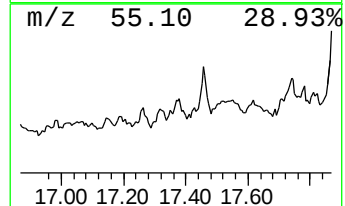
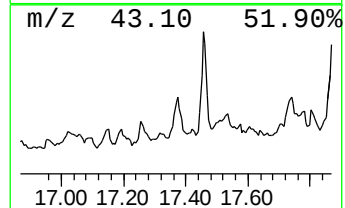
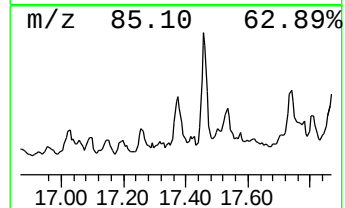
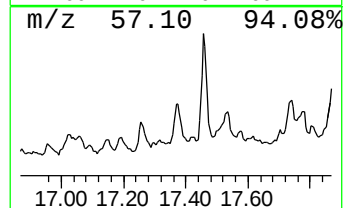
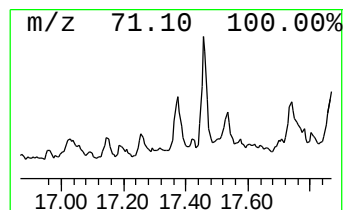
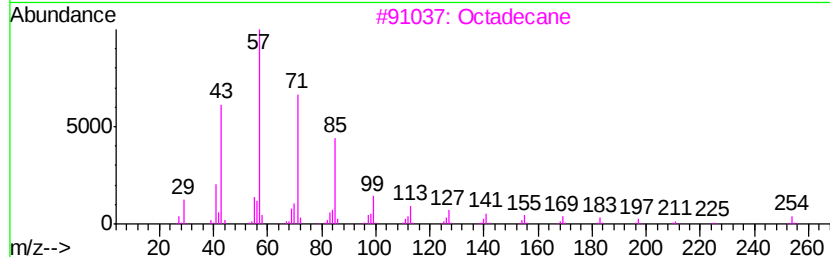
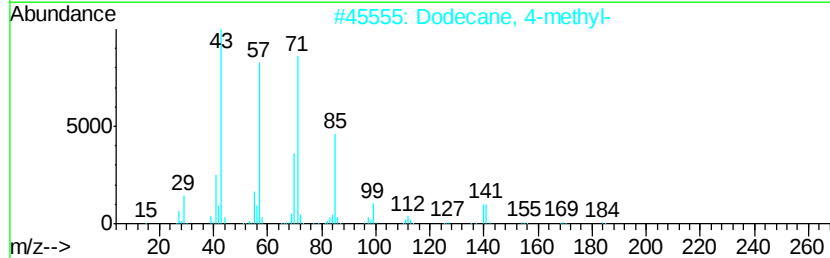
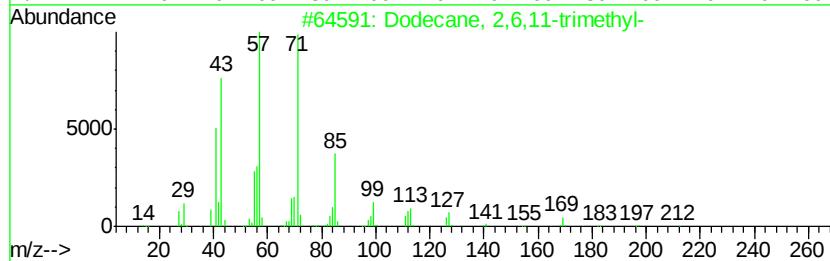
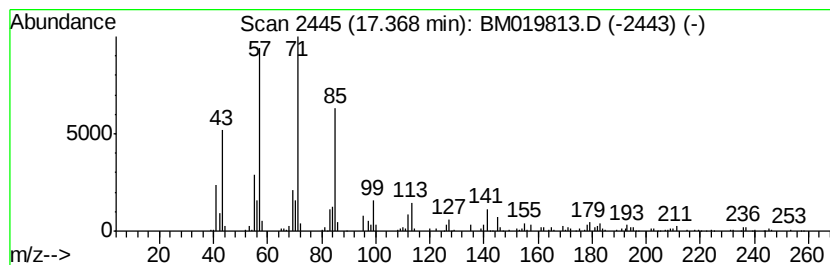
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 (DEL) Alkane: Straight-Chai... Concentration Rank 16

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 17.37 | 3.56 ng/ul | 309811 | Phenanthrene-d10 | 16.98 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------|-----|---------|-------------|------|
| 1    |    |   | Dodecane, 2,6,11-trimethyl- | 212 | C15H32  | 031295-56-4 | 83   |
| 2    |    |   | Dodecane, 4-methyl-         | 184 | C13H28  | 006117-97-1 | 68   |
| 3    |    |   | Octadecane                  | 254 | C18H38  | 000593-45-3 | 68   |
| 4    |    |   | Docosane                    | 310 | C22H46  | 000629-97-0 | 64   |
| 5    |    |   | Heptacosane                 | 380 | C27H56  | 000593-49-7 | 64   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM040819\  
Data File : BM019813.D  
Acq On : 09 Apr 2019 02:18  
Operator : JU/SJ  
Sample : K2254-19  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM032219MA.M  
Quant Title : SVOA CALIBRATION

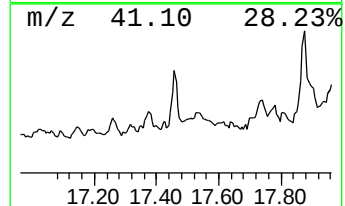
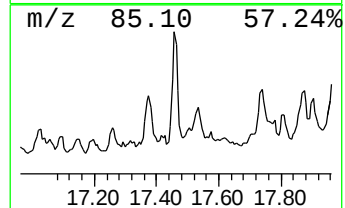
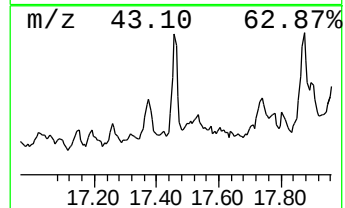
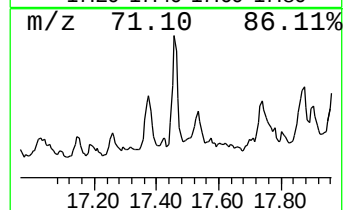
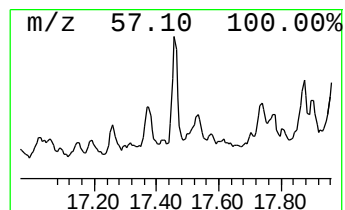
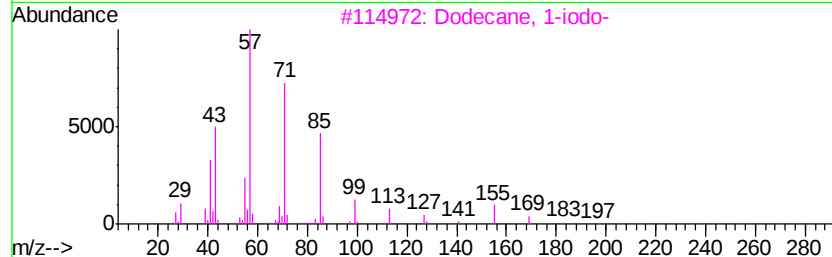
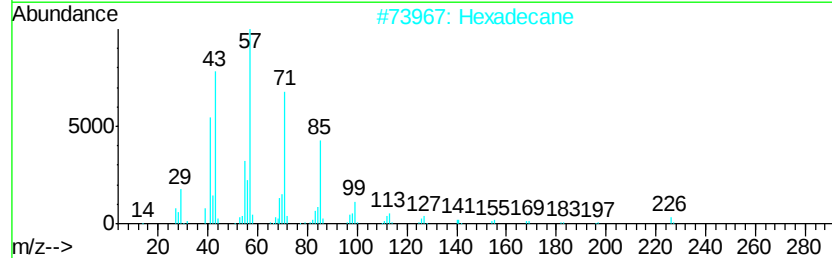
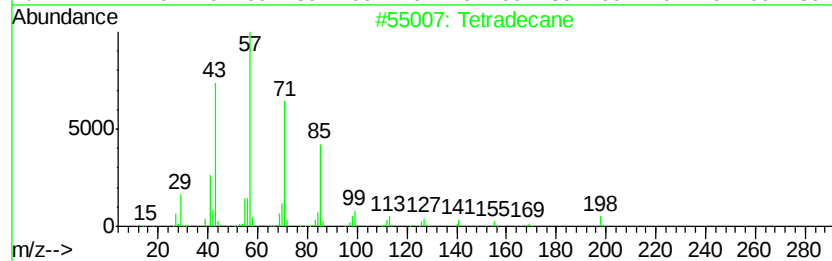
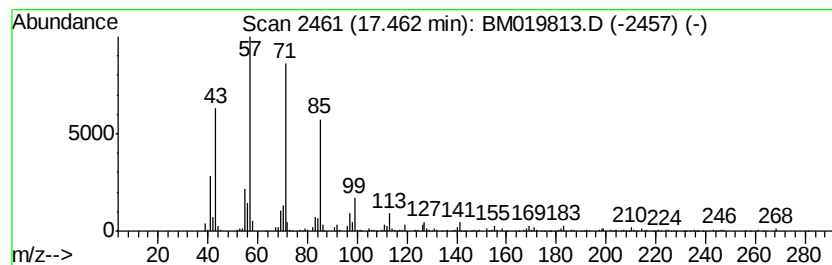
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 (DEL) Alkane: Straight-Chai... Concentration Rank 13

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 17.46 | 5.09 ng/ul | 442240 | Phenanthrene-d10 | 16.98 |

| Hit# | of | 5 | Tentative ID      | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------|-----|----------|-------------|------|
| 1    |    |   | Tetradecane       | 198 | C14H30   | 000629-59-4 | 93   |
| 2    |    |   | Hexadecane        | 226 | C16H34   | 000544-76-3 | 90   |
| 3    |    |   | Dodecane, 1-iodo- | 296 | C12H25I  | 004292-19-7 | 87   |
| 4    |    |   | 2-Bromo dodecane  | 248 | C12H25Br | 013187-99-0 | 86   |
| 5    |    |   | Heptacosane       | 380 | C27H56   | 000593-49-7 | 83   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM040819\  
Data File : BM019813.D  
Acq On : 09 Apr 2019 02:18  
Operator : JU/SJ  
Sample : K2254-19  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BFC40

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM032219MA.M  
Quant Title : SVOA CALIBRATION

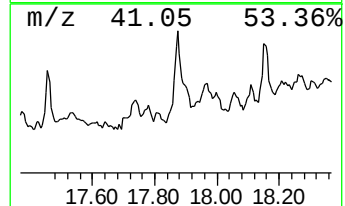
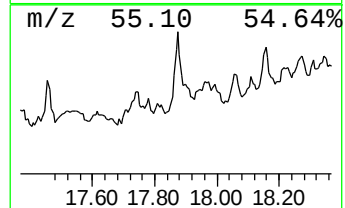
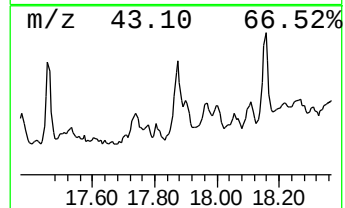
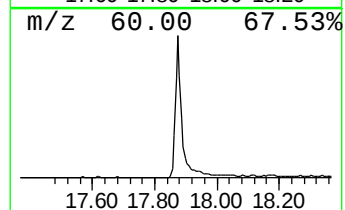
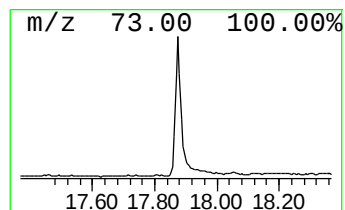
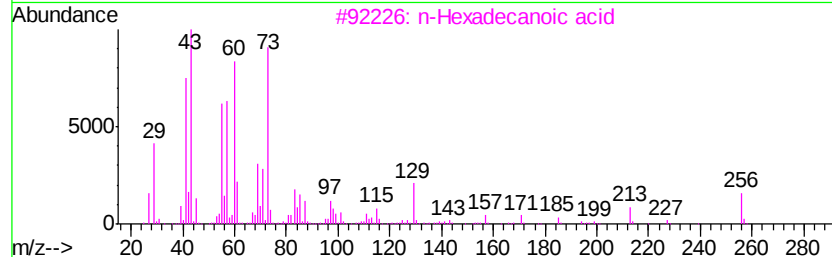
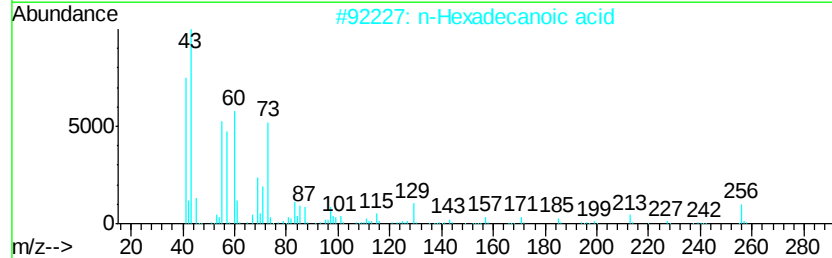
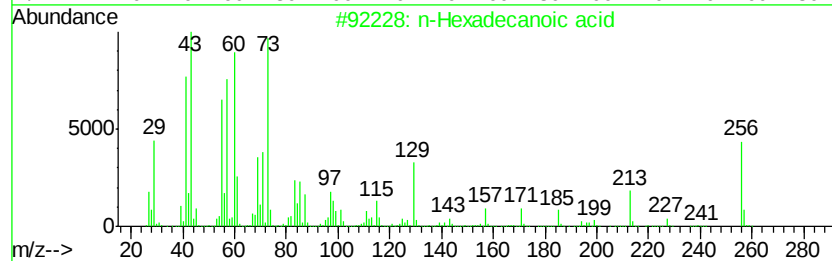
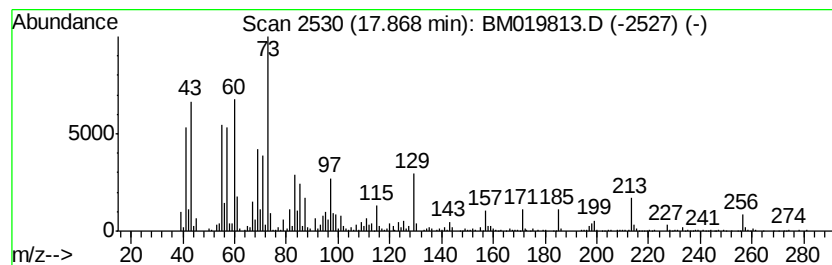
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 n-Hexadecanoic acid Concentration Rank 6

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 17.87 | 9.19 ng/ul | 798493 | Phenanthrene-d10 | 16.98 |

| 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 | 95   |
| 3    |    |   | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 91   |
| 4    |    |   | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 52   |
| 5    |    |   | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 50   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM040819\  
Data File : BM019813.D  
Acq On : 09 Apr 2019 02:18  
Operator : JU/SJ  
Sample : K2254-19  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BFC40

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM032219MA.M  
Quant Title : SVOA CALIBRATION

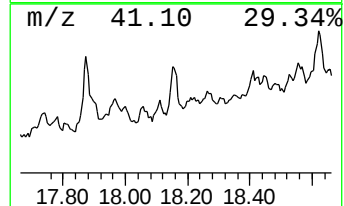
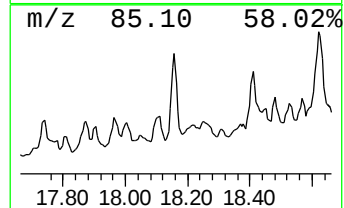
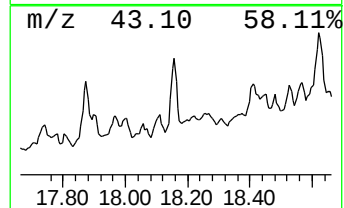
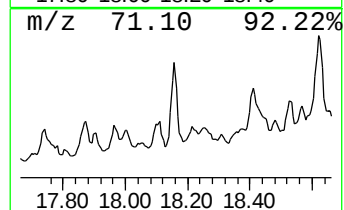
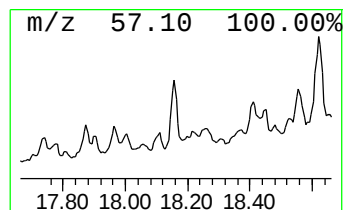
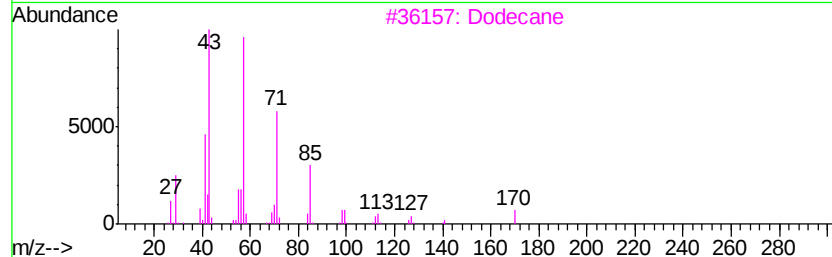
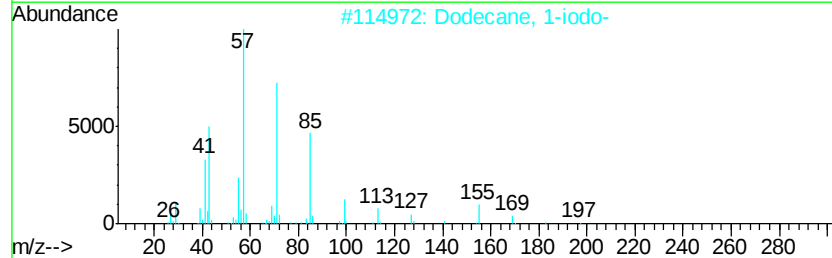
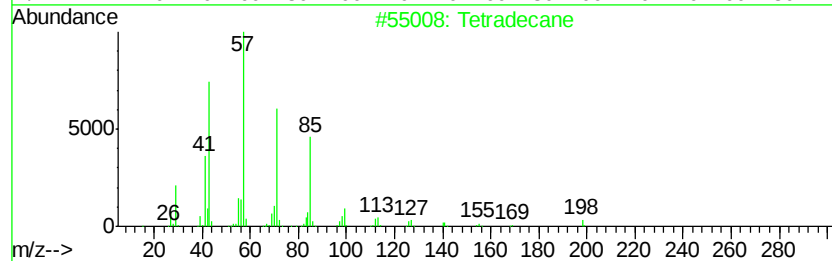
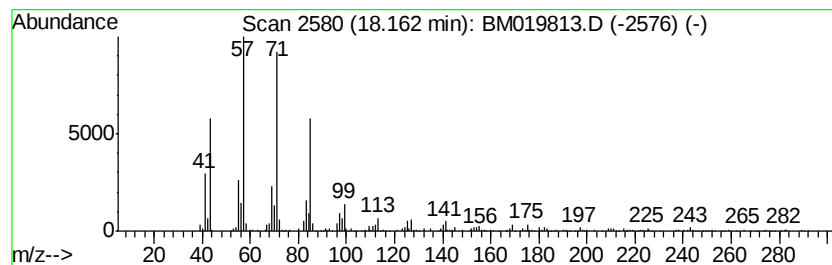
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 18.16 | 5.55 ng/ul | 482530 | Phenanthrene-d10 | 16.98 |

| Hit# | of | 5 | Tentative ID      | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------|-----|---------|-------------|------|
| 1    |    |   | Tetradecane       | 198 | C14H30  | 000629-59-4 | 93   |
| 2    |    |   | Dodecane, 1-iodo- | 296 | C12H25I | 004292-19-7 | 86   |
| 3    |    |   | Dodecane          | 170 | C12H26  | 000112-40-3 | 83   |
| 4    |    |   | Octacosane        | 394 | C28H58  | 000630-02-4 | 83   |
| 5    |    |   | Heptacosane       | 380 | C27H56  | 000593-49-7 | 80   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM040819\  
Data File : BM019813.D  
Acq On : 09 Apr 2019 02:18  
Operator : JU/SJ  
Sample : K2254-19  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BFC40

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM032219MA.M  
Quant Title : SVOA CALIBRATION

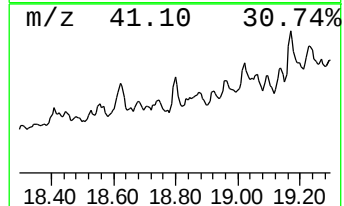
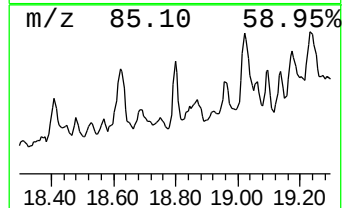
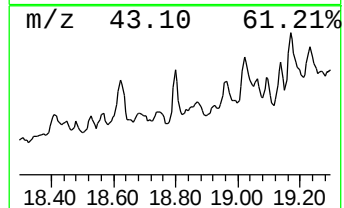
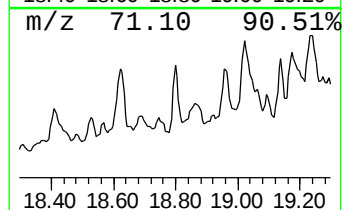
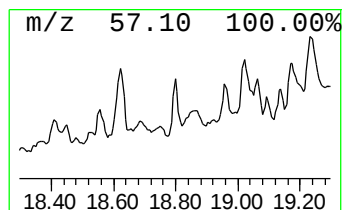
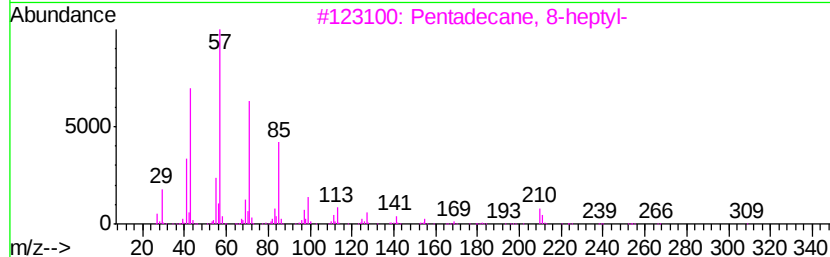
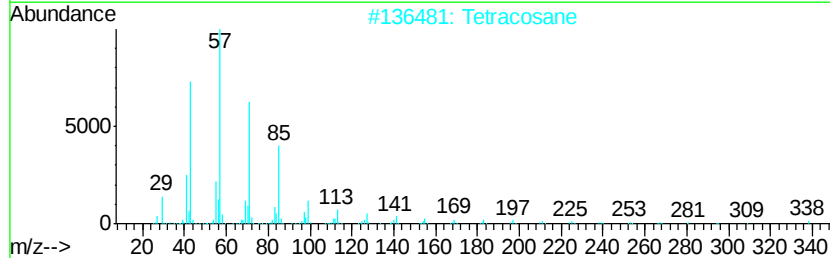
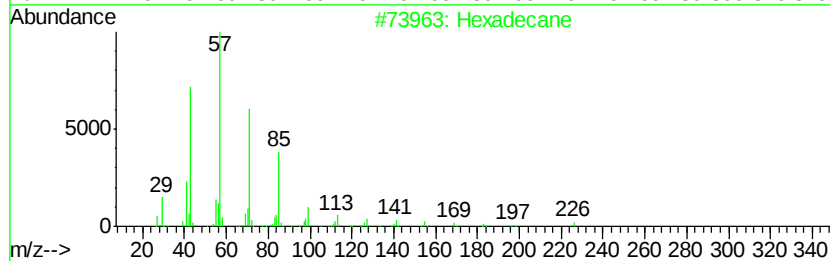
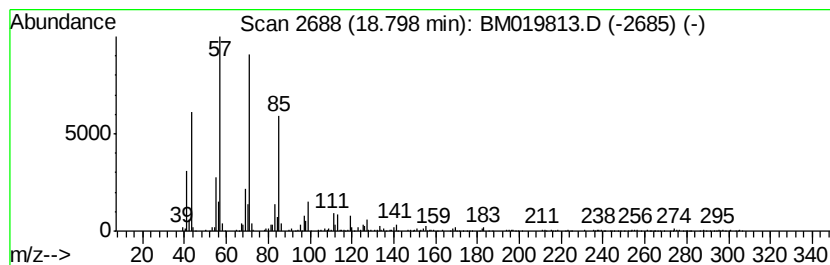
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 13 (DEL) Alkane: Straight-Chai... Concentration Rank 10

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 18.80 | 6.78 ng/ul | 589670 | Phenanthrene-d10 | 16.98 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------|-----|---------|-------------|------|
| 1    |    |   | Hexadecane                  | 226 | C16H34  | 000544-76-3 | 90   |
| 2    |    |   | Tetracosane                 | 338 | C24H50  | 000646-31-1 | 86   |
| 3    |    |   | Pentadecane, 8-heptyl-      | 310 | C22H46  | 071005-15-7 | 86   |
| 4    |    |   | Dodecane, 2,6,11-trimethyl- | 212 | C15H32  | 031295-56-4 | 83   |
| 5    |    |   | Heptacosane                 | 380 | C27H56  | 000593-49-7 | 74   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM040819\  
Data File : BM019813.D  
Acq On : 09 Apr 2019 02:18  
Operator : JU/SJ  
Sample : K2254-19  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BFC40

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM032219MA.M  
Quant Title : SVOA CALIBRATION

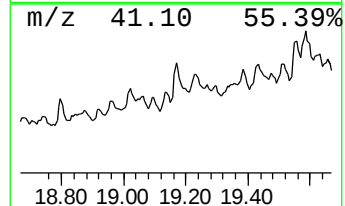
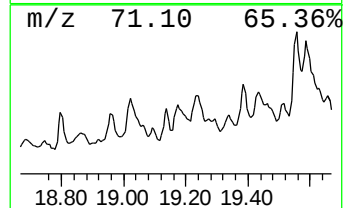
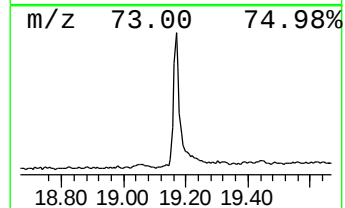
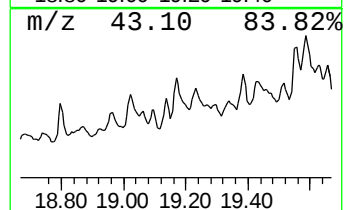
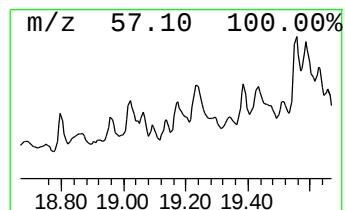
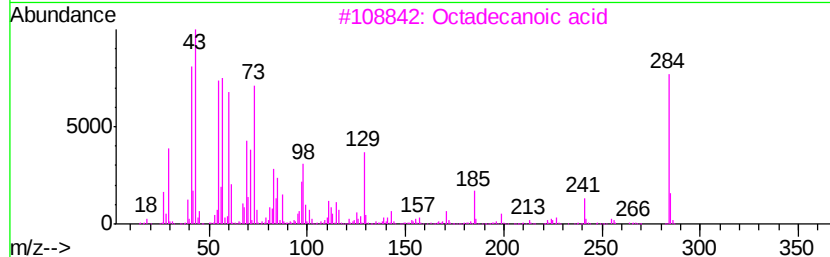
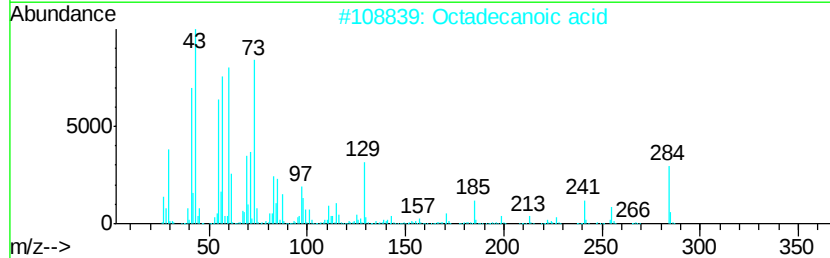
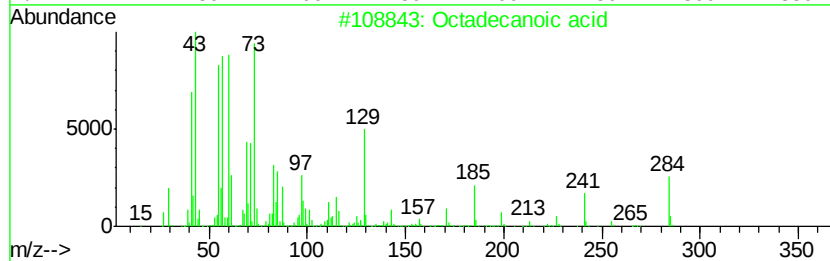
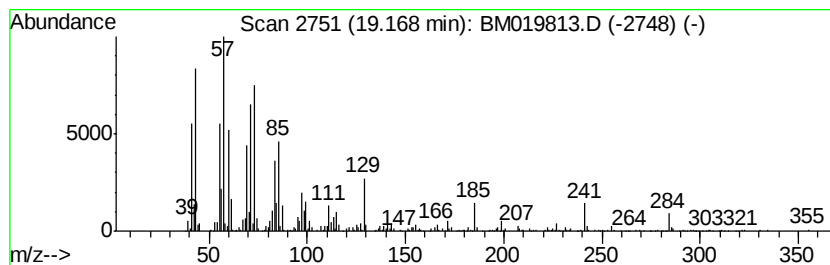
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 14 Octadecanoic acid Concentration Rank 8

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 19.17 | 7.38 ng/ul | 1403610 | Chrysene-d12     | 21.20 |

| Hit# | of | Tentative ID       | MW  | MolForm  | CAS#        | Qual |
|------|----|--------------------|-----|----------|-------------|------|
| 1    | 5  | Octadecanoic acid  | 284 | C18H36O2 | 000057-11-4 | 95   |
| 2    |    | Octadecanoic acid  | 284 | C18H36O2 | 000057-11-4 | 89   |
| 3    |    | Octadecanoic acid  | 284 | C18H36O2 | 000057-11-4 | 89   |
| 4    |    | Octadecanoic acid  | 284 | C18H36O2 | 000057-11-4 | 55   |
| 5    |    | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 43   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM040819\  
Data File : BM019813.D  
Acq On : 09 Apr 2019 02:18  
Operator : JU/SJ  
Sample : K2254-19  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BFC40

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM032219MA.M  
Quant Title : SVOA CALIBRATION

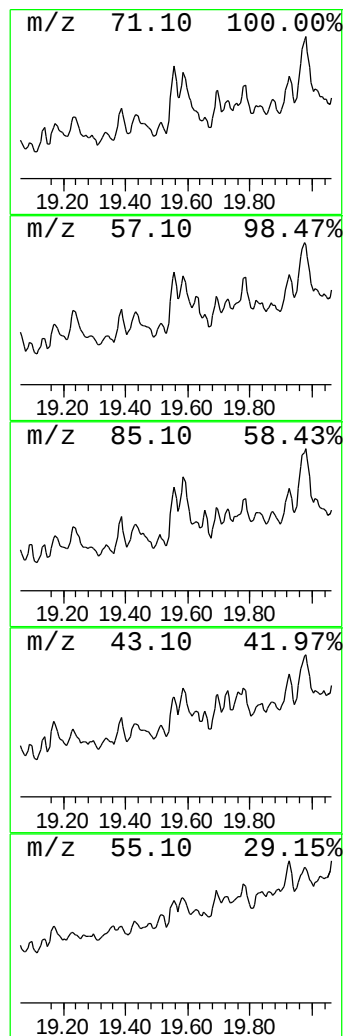
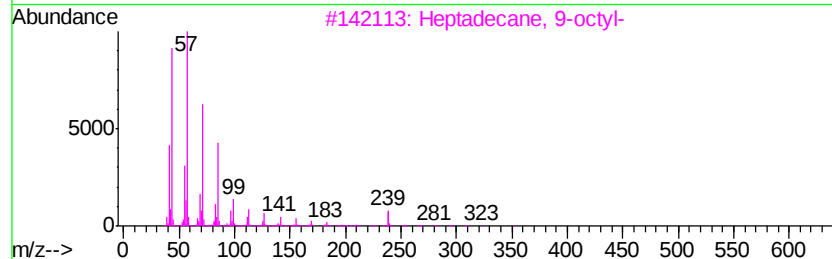
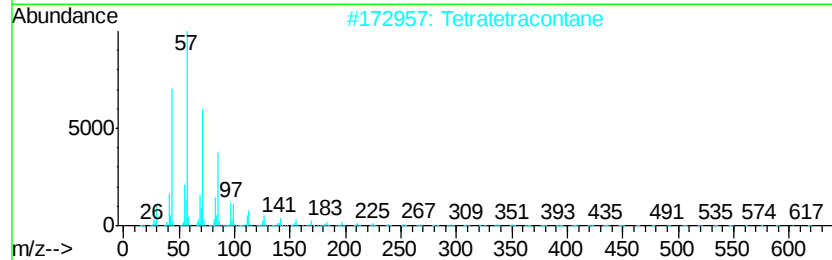
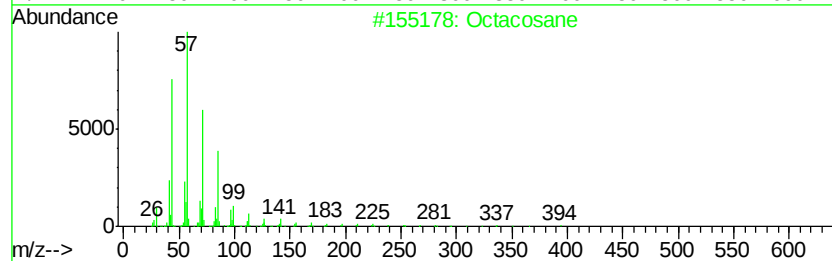
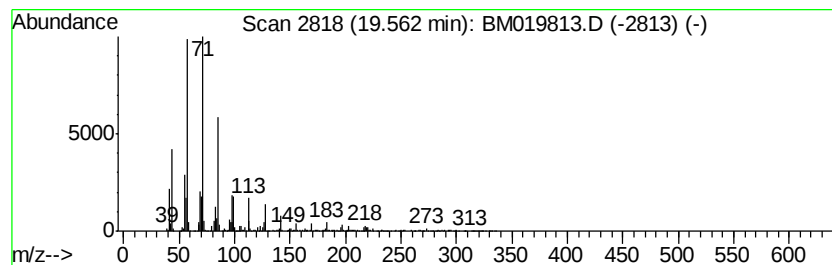
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 15 (DEL) Alkane: Straight-Chai... Concentration Rank 7

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 19.56 | 7.98 ng/ul | 1518160 | Chrysene-d12     | 21.20 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Octacosane                          | 394 | C28H58  | 000630-02-4 | 83   |
| 2    |    |   | Tetratetracontane                   | 619 | C44H90  | 007098-22-8 | 80   |
| 3    |    |   | Heptadecane, 9-octyl-               | 352 | C25H52  | 007225-64-1 | 72   |
| 4    |    |   | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44  | 054833-48-6 | 72   |
| 5    |    |   | triacontane                         | 422 | C30H62  | 000638-68-6 | 72   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM040819\  
Data File : BM019813.D  
Acq On : 09 Apr 2019 02:18  
Operator : JU/SJ  
Sample : K2254-19  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BFC40

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM032219MA.M  
Quant Title : SVOA CALIBRATION

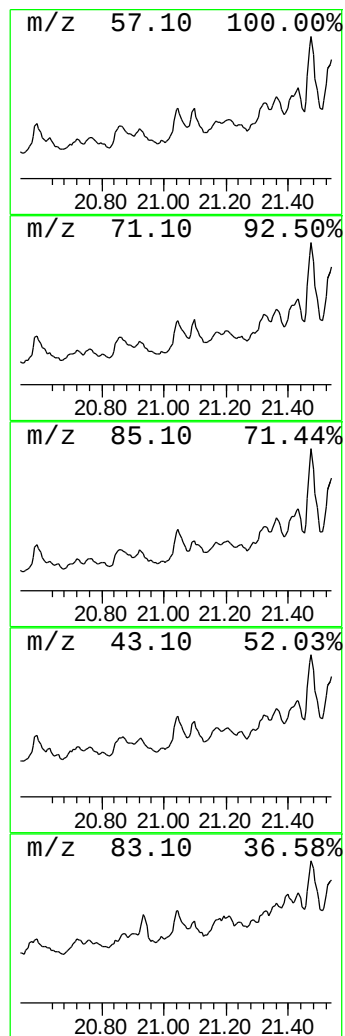
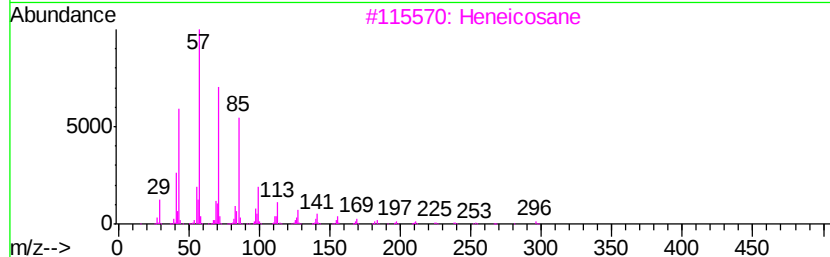
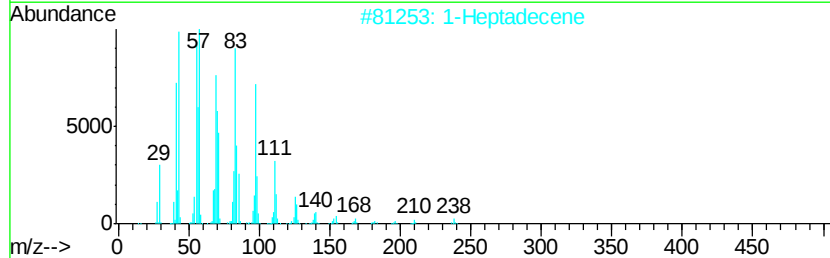
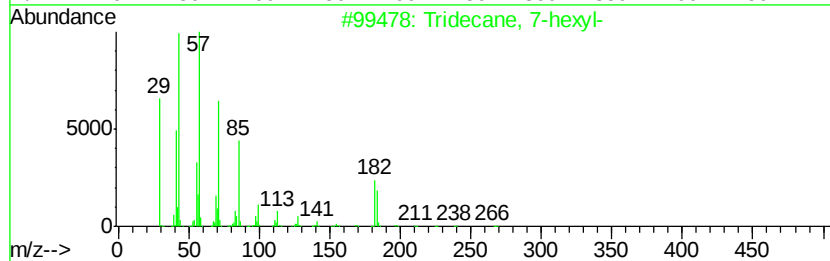
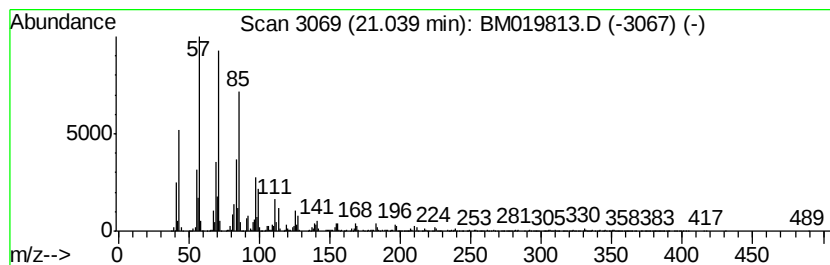
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 16 (DEL) Alkane: Straight-Chai... Concentration Rank 5

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 21.04 | 26.92 ng/ul | 5120100 | Chrysene-d12     | 21.20 |

| Hit# | of | Tentative ID        | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------|-----|---------|-------------|------|
| 1    | 5  | Tridecane, 7-hexyl- | 268 | C19H40  | 007225-66-3 | 95   |
| 2    |    | 1-Heptadecene       | 238 | C17H34  | 006765-39-5 | 78   |
| 3    |    | Heneicosane         | 296 | C21H44  | 000629-94-7 | 74   |
| 4    |    | Hexadecane          | 226 | C16H34  | 000544-76-3 | 68   |
| 5    |    | Heptadecane         | 240 | C17H36  | 000629-78-7 | 68   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM040819\  
Data File : BM019813.D  
Acq On : 09 Apr 2019 02:18  
Operator : JU/SJ  
Sample : K2254-19  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BFC40

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM032219MA.M  
Quant Title : SVOA CALIBRATION

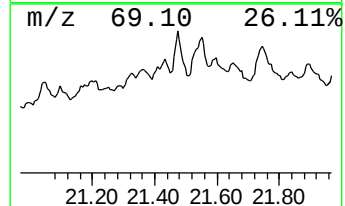
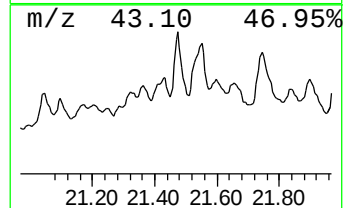
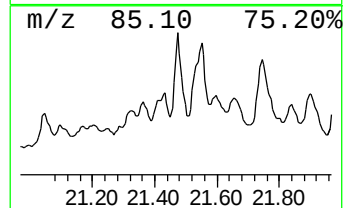
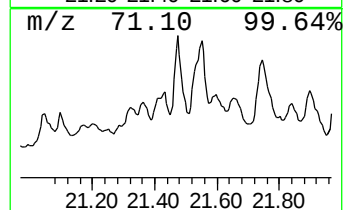
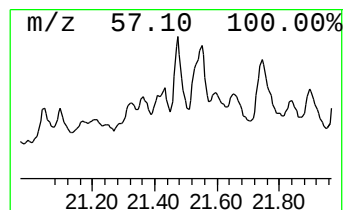
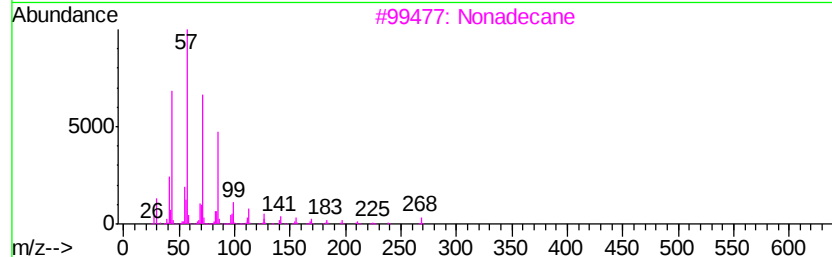
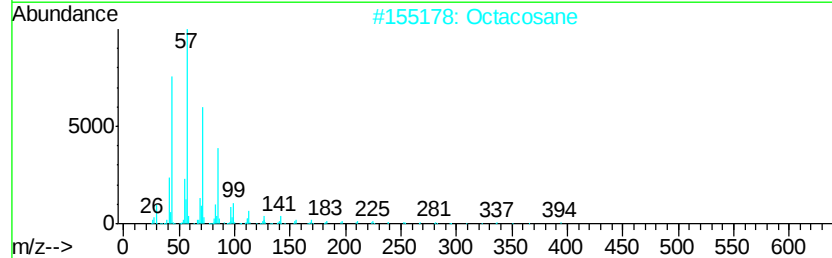
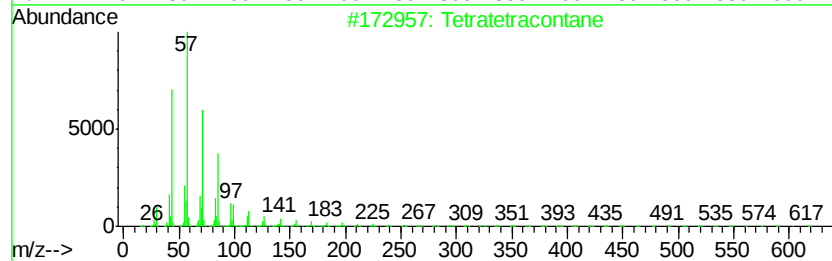
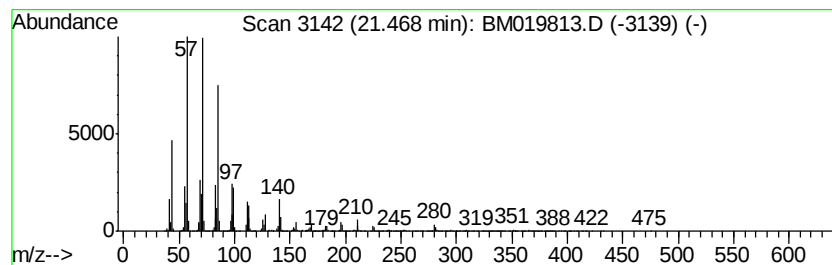
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 17 (DEL) Alkane: Straight-Chai... Concentration Rank 4

| R.T.  | EstConc     | Area     | Relative to ISTD | R.T.  |
|-------|-------------|----------|------------------|-------|
| 21.47 | 63.74 ng/ul | 12123900 | Chrysene-d12     | 21.20 |

| Hit# | of | 5 | Tentative ID      | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------|-----|---------|-------------|------|
| 1    |    |   | Tetratetracontane | 619 | C44H90  | 007098-22-8 | 81   |
| 2    |    |   | Octacosane        | 394 | C28H58  | 000630-02-4 | 74   |
| 3    |    |   | Nonadecane        | 268 | C19H40  | 000629-92-5 | 72   |
| 4    |    |   | Heptadecane       | 240 | C17H36  | 000629-78-7 | 72   |
| 5    |    |   | Tetracosane       | 338 | C24H50  | 000646-31-1 | 72   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM040819\  
Data File : BM019813.D  
Acq On : 09 Apr 2019 02:18  
Operator : JU/SJ  
Sample : K2254-19  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BFC40

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM032219MA.M  
Quant Title : SVOA CALIBRATION

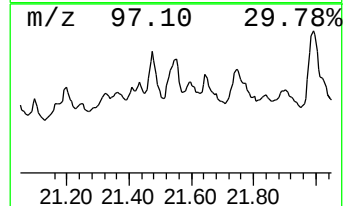
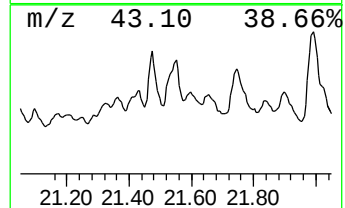
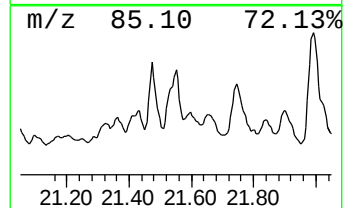
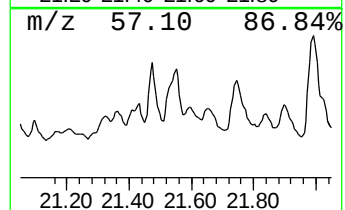
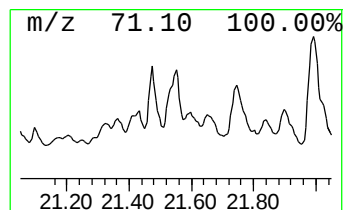
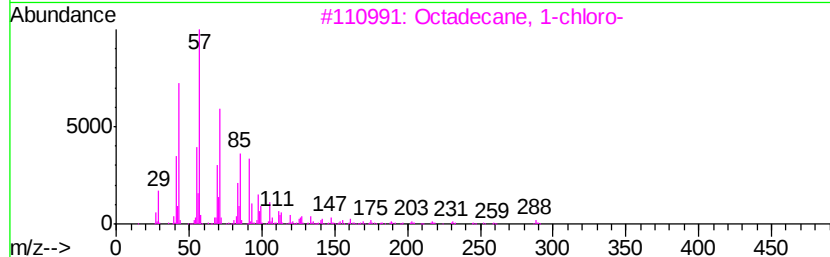
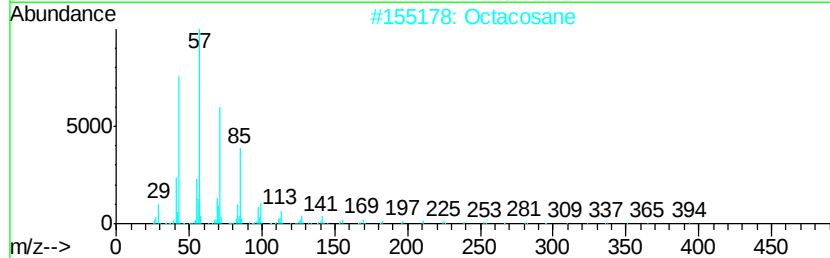
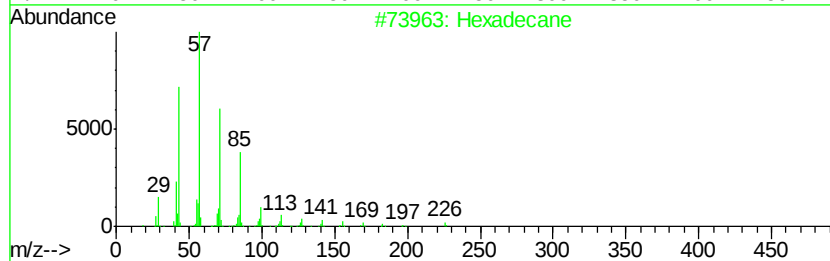
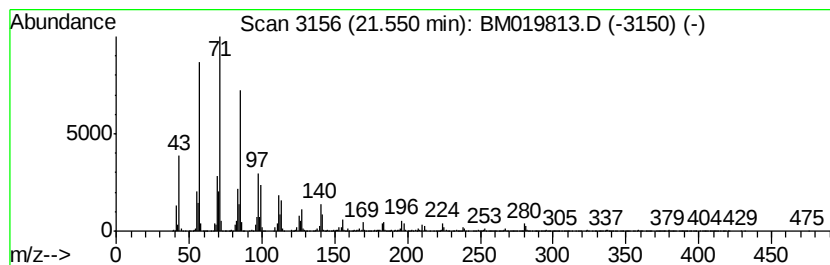
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 18 (DEL) Alkane: Straight-Chai... Concentration Rank 2

| R.T.  | EstConc     | Area     | Relative to ISTD | R.T.  |
|-------|-------------|----------|------------------|-------|
| 21.55 | 72.82 ng/ul | 13852600 | Chrysene-d12     | 21.20 |

| Hit# | of | Tentative ID          | MW  | MolForm  | CAS#        | Qual |
|------|----|-----------------------|-----|----------|-------------|------|
| 1    | 5  | Hexadecane            | 226 | C16H34   | 000544-76-3 | 93   |
| 2    |    | Octacosane            | 394 | C28H58   | 000630-02-4 | 91   |
| 3    |    | Octadecane, 1-chloro- | 288 | C18H37Cl | 003386-33-2 | 87   |
| 4    |    | Tetratetracontane     | 619 | C44H90   | 007098-22-8 | 81   |
| 5    |    | Docosane, 11-butyl-   | 366 | C26H54   | 013475-76-8 | 81   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM040819\  
Data File : BM019813.D  
Acq On : 09 Apr 2019 02:18  
Operator : JU/SJ  
Sample : K2254-19  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BFC40

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM032219MA.M  
Quant Title : SVOA CALIBRATION

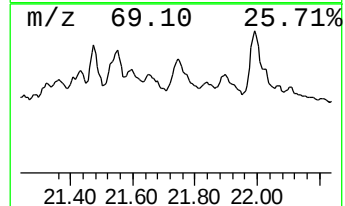
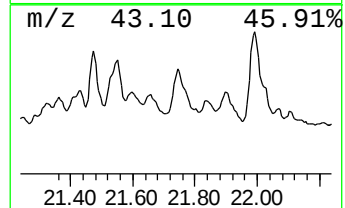
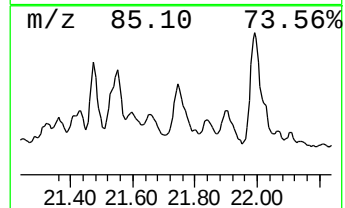
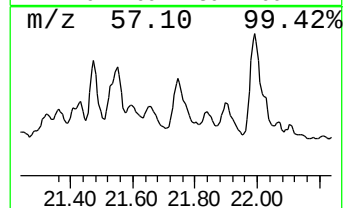
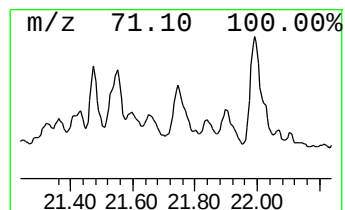
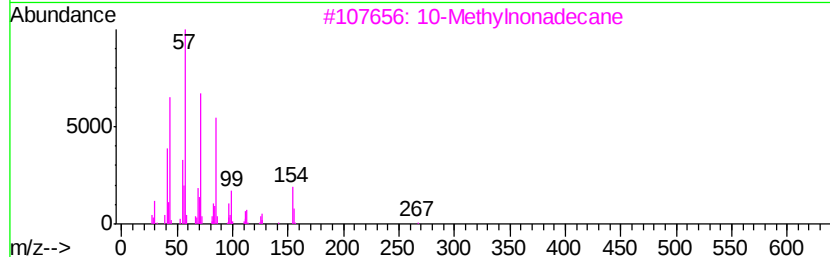
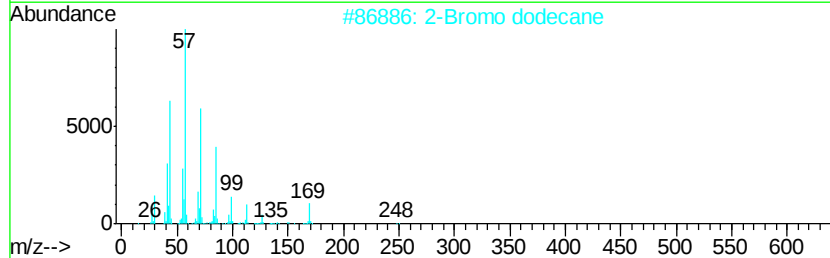
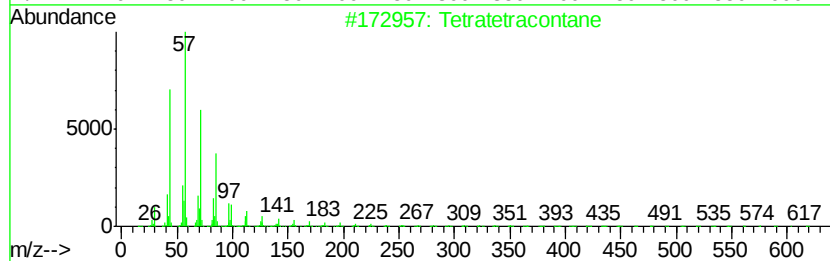
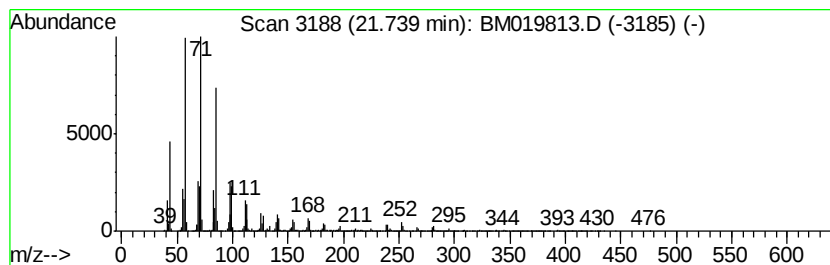
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 19 (DEL) Alkane: Straight-Chai... Concentration Rank 3

| R.T.  | EstConc     | Area     | Relative to ISTD | R.T.  |
|-------|-------------|----------|------------------|-------|
| 21.74 | 68.42 ng/ul | 13015100 | Chrysene-d12     | 21.20 |

| Hit# | of | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------|-----|----------|-------------|------|
| 1    | 5  | Tetratetracontane   | 619 | C44H90   | 007098-22-8 | 83   |
| 2    |    | 2-Bromo dodecane    | 248 | C12H25Br | 013187-99-0 | 81   |
| 3    |    | 10-Methylnonadecane | 282 | C20H42   | 056862-62-5 | 80   |
| 4    |    | Octacosane          | 394 | C28H58   | 000630-02-4 | 74   |
| 5    |    | Heptacosane         | 380 | C27H56   | 000593-49-7 | 74   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM040819\  
Data File : BM019813.D  
Acq On : 09 Apr 2019 02:18  
Operator : JU/SJ  
Sample : K2254-19  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BFC40

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM032219MA.M  
Quant Title : SVOA CALIBRATION

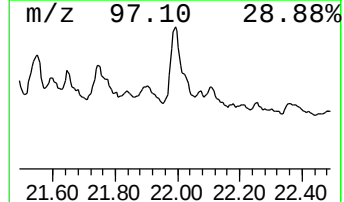
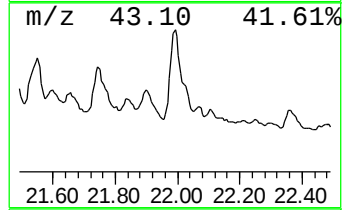
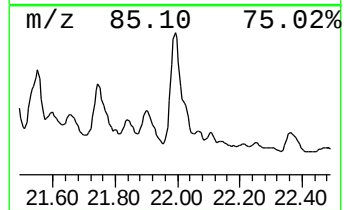
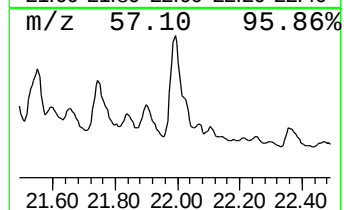
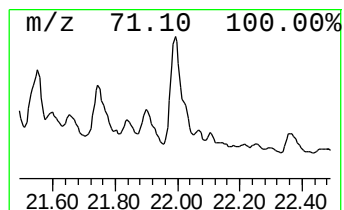
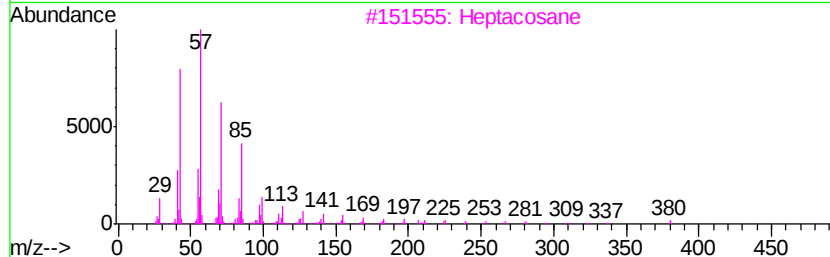
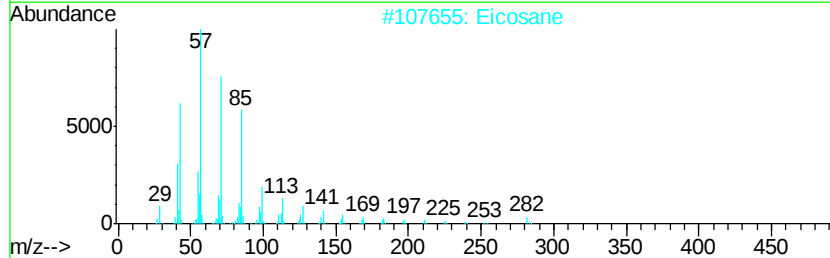
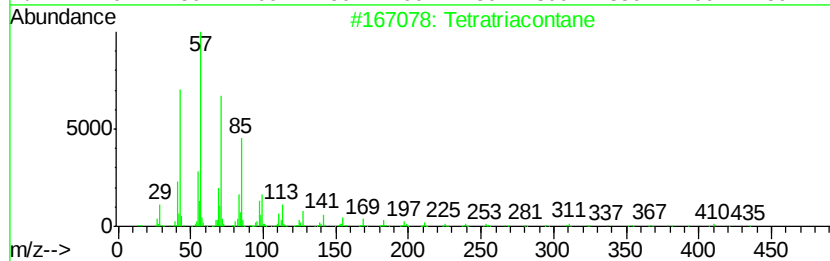
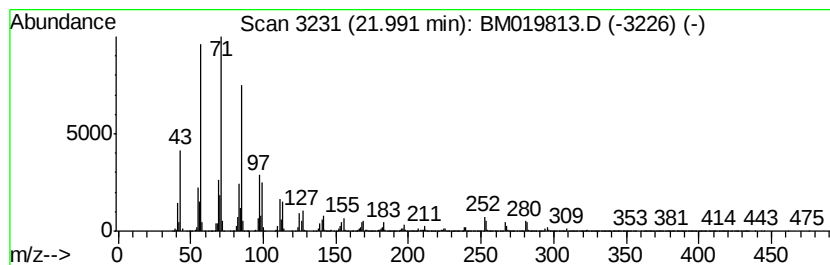
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 20 (DEL) Alkane: Straight-Chai... Concentration Rank 1

| R.T.  | EstConc      | Area     | Relative to ISTD | R.T.  |
|-------|--------------|----------|------------------|-------|
| 21.99 | 174.96 ng/ul | 33280600 | Chrysene-d12     | 21.20 |

| Hit# | of | 5 | Tentative ID     | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------|-----|---------|-------------|------|
| 1    |    |   | Tetratriacontane | 479 | C34H70  | 014167-59-0 | 83   |
| 2    |    |   | Eicosane         | 282 | C20H42  | 000112-95-8 | 81   |
| 3    |    |   | Heptacosane      | 380 | C27H56  | 000593-49-7 | 80   |
| 4    |    |   | Octadecane       | 254 | C18H38  | 000593-45-3 | 74   |
| 5    |    |   | Heneicosane      | 296 | C21H44  | 000629-94-7 | 74   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM040819\  
 Data File : BM019813.D  
 Acq On : 09 Apr 2019 02:18  
 Operator : JU/SJ  
 Sample : K2254-19  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BFC40

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM032219MA.M  
 Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
 TIC Integration Parameters: LSCINT.P

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| (DEL) Alkane: Str... | 14.10 | 2.3     | ng/ul | 185950   | 3                     | 14.22 | 1590240 | 20.0 |
| unknown-01           | 14.50 | 3.0     | ng/ul | 234509   | 3                     | 14.22 | 1590240 | 20.0 |
| Dodecanoic acid      | 14.65 | 6.1     | ng/ul | 487136   | 3                     | 14.22 | 1590240 | 20.0 |
| (DEL) Alkane: Str... | 15.06 | 2.2     | ng/ul | 172978   | 3                     | 14.22 | 1590240 | 20.0 |
| (DEL) Alkane: Str... | 15.93 | 4.2     | ng/ul | 362829   | 4                     | 16.98 | 1738580 | 20.0 |
| Pentadecanoic acid   | 16.38 | 2.3     | ng/ul | 201946   | 4                     | 16.98 | 1738580 | 20.0 |
| Dodecane, 1-iodo-    | 16.72 | 4.3     | ng/ul | 376959   | 4                     | 16.98 | 1738580 | 20.0 |
| (DEL) Alkane: Str... | 16.77 | 7.1     | ng/ul | 618984   | 4                     | 16.98 | 1738580 | 20.0 |
| (DEL) Alkane: Str... | 17.37 | 3.6     | ng/ul | 309811   | 4                     | 16.98 | 1738580 | 20.0 |
| (DEL) Alkane: Str... | 17.46 | 5.1     | ng/ul | 442240   | 4                     | 16.98 | 1738580 | 20.0 |
| n-Hexadecanoic acid  | 17.87 | 9.2     | ng/ul | 798493   | 4                     | 16.98 | 1738580 | 20.0 |
| (DEL) Alkane: Str... | 18.16 | 5.5     | ng/ul | 482530   | 4                     | 16.98 | 1738580 | 20.0 |
| (DEL) Alkane: Str... | 18.80 | 6.8     | ng/ul | 589670   | 4                     | 16.98 | 1738580 | 20.0 |
| Octadecanoic acid    | 19.17 | 7.4     | ng/ul | 1403610  | 5                     | 21.20 | 3804370 | 20.0 |
| (DEL) Alkane: Str... | 19.56 | 8.0     | ng/ul | 1518160  | 5                     | 21.20 | 3804370 | 20.0 |
| (DEL) Alkane: Str... | 21.04 | 26.9    | ng/ul | 5120100  | 5                     | 21.20 | 3804370 | 20.0 |
| (DEL) Alkane: Str... | 21.47 | 63.7    | ng/ul | 12123900 | 5                     | 21.20 | 3804370 | 20.0 |
| (DEL) Alkane: Str... | 21.55 | 72.8    | ng/ul | 13852600 | 5                     | 21.20 | 3804370 | 20.0 |
| (DEL) Alkane: Str... | 21.74 | 68.4    | ng/ul | 13015100 | 5                     | 21.20 | 3804370 | 20.0 |
| (DEL) Alkane: Str... | 21.99 | 175.0   | ng/ul | 33280600 | 5                     | 21.20 | 3804370 | 20.0 |