LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN122619\
Data File : BN009178.D
Acq On : 26 Dec 2019 18:28
Operator : JU
Sample : K6381-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** CB5R2

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 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-BN122419MA.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 | 3.828 | 135 | 143 | 153 | rBV | 429609 | 633169 | 6.29% | 0.328% |
| 2 | 4.040 | 173 | 179 | 186 | rBV | 221535 | 311364 | 3.09% | 0.161% |
| 3 | 4.434 | 241 | 246 | 252 | rBV | 148250 | 198102 | 1.97% | 0.103% |
| 4 | 6.710 | 622 | 633 | 647 | rVB | 1709499 | 2841122 | 28.22% | 1.473% |
| 5 | 6.869 | 654 | 660 | 675 | rVB | 1248187 | 1941577 | 19.29% | 1.006% |
| 6 | 7.057 | 686 | 692 | 705 | rVV | 1606845 | 2570348 | 25.53% | 1.332% |
| 7 | 7.516 | 763 | 770 | 780 | rBV | 1122299 | 1804817 | 17.93% | 0.936% |
| 8 | 8.228 | 881 | 891 | 901 | rVV | 2106666 | 3338993 | 33.17% | 1.731% |
| 9 | 8.657 | 958 | 964 | 975 | rVV | 1676953 | 2706343 | 26.89% | 1.403% |
| 10 | 8.834 | 987 | 994 | 1005 | rBV | 307861 | 482061 | 4.79% | 0.250% |
| 11 | 9.369 | 1078 | 1085 | 1094 | rBV | 1381688 | 2295000 | 22.80% | 1.190% |
| 12 | 9.904 | 1170 | 1176 | 1187 | rVB | 2084812 | 3434967 | 34.12% | 1.781% |
| 13 | 10.275 | 1232 | 1239 | 1244 | rBV | 1789386 | 2843567 | 28.25% | 1.474% |
| 14 | 10.322 | 1244 | 1247 | 1254 | rVB | 242122 | 369994 | 3.68% | 0.192% |
| 15 | 10.416 | 1254 | 1263 | 1278 | rBV | 1892572 | 3377512 | 33.55% | 1.751% |
| 16 | 11.945 | 1516 | 1523 | 1533 | rVB | 157839 | 273901 | 2.72% | 0.142% |
| 17 | 12.169 | 1555 | 1561 | 1567 | rVB | 99754 | 165682 | 1.65% | 0.086% |
| 18 | 12.998 | 1694 | 1702 | 1706 | rVV2 | 92783 | 188527 | 1.87% | 0.098% |
| 19 | 13.475 | 1777 | 1783 | 1787 | rVV2 | 99650 | 167575 | 1.66% | 0.087% |
| 20 | 13.575 | 1794 | 1800 | 1805 | rVV | 3428041 | 4647130 | 46.17% | 2.409% |
| 21 | 13.622 | 1805 | 1808 | 1813 | rVV | 239895 | 310960 | 3.09% | 0.161% |
| 22 | 13.839 | 1838 | 1845 | 1858 | rVV | 3910971 | 6134343 | 60.94% | 3.180% |
| 23 | 14.151 | 1891 | 1898 | 1904 | rVV2 | 2535095 | 3694833 | 36.71% | 1.915% |
| 24 | 14.216 | 1904 | 1909 | 1918 | rVV | 442427 | 681814 | 6.77% | 0.353% |
| 25 | 14.369 | 1928 | 1935 | 1946 | rBV | 1766405 | 2772867 | 27.55% | 1.437% |
| 26 | 14.557 | 1957 | 1967 | 1973 | rVV | 304631 | 533351 | 5.30% | 0.276% |
| 27 | 15.151 | 2062 | 2068 | 2074 | rBV | 4908602 | 7024078 | 69.78% | 3.641% |
| 28 | 15.204 | 2074 | 2077 | 2083 | rVB | 439743 | 619730 | 6.16% | 0.321% |
| 29 | 15.286 | 2083 | 2091 | 2097 | rBV | 1355111 | 2000228 | 19.87% | 1.037% |
| 30 | 15.504 | 2124 | 2128 | 2139 | rVB | 147853 | 279177 | 2.77% | 0.145% |
| 31 | 15.651 | 2149 | 2153 | 2162 | rVB | 136590 | 278819 | 2.77% | 0.145% |
| 32 | 15.745 | 2162 | 2169 | 2175 | rVB7 | 69627 | 160598 | 1.60% | 0.083% |
| 33 | 16.216 | 2246 | 2249 | 2253 | rVV2 | 96844 | 150206 | 1.49% | 0.078% |
| 34 | 16.557 | 2303 | 2307 | 2317 | rVB | 245838 | 415780 | 4.13% | 0.216% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN122619\
Data File : BN009178.D
Acq On : 26 Dec 2019 18:28
Operator : JU
Sample : K6381-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** CB5R2

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 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-BN122419MA.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 16.657 | 2317 | 2324 | 2328 | rBV3 | 138107 | 327206 | 3.25% | 0.170% |
| 36 | 16.722 | 2328 | 2335 | 2339 | rVB2 | 239998 | 449244 | 4.46% | 0.233% |
| 37 | 16.904 | 2360 | 2366 | 2369 | rVV | 3015304 | 4198734 | 41.71% | 2.177% |
| 38 | 16.945 | 2369 | 2373 | 2378 | rVV | 5165074 | 7141115 | 70.94% | 3.702% |
| 39 | 17.004 | 2378 | 2383 | 2386 | rVV | 5230878 | 7314130 | 72.66% | 3.791% |
| 40 | 17.033 | 2386 | 2388 | 2394 | rVB | 1117956 | 1305168 | 12.97% | 0.677% |
| 41 | 17.304 | 2430 | 2434 | 2440 | rBV | 467713 | 677374 | 6.73% | 0.351% |
| 42 | 17.433 | 2452 | 2456 | 2460 | rVV3 | 153062 | 207913 | 2.07% | 0.108% |
| 43 | 17.486 | 2460 | 2465 | 2471 | rVB2 | 115667 | 174999 | 1.74% | 0.091% |
| 44 | 17.780 | 2510 | 2515 | 2518 | rVV | 612601 | 864340 | 8.59% | 0.448% |
| 45 | 17.827 | 2518 | 2523 | 2530 | rVV | 1073949 | 1515128 | 15.05% | 0.785% |
| 46 | 17.904 | 2530 | 2536 | 2541 | rVV2 | 281873 | 526707 | 5.23% | 0.273% |
| 47 | 17.969 | 2541 | 2547 | 2551 | rVV2 | 832967 | 1452912 | 14.43% | 0.753% |
| 48 | 18.010 | 2551 | 2554 | 2562 | rVB | 395220 | 542561 | 5.39% | 0.281% |
| 49 | 18.127 | 2570 | 2574 | 2579 | rBV2 | 216120 | 271399 | 2.70% | 0.141% |
| 50 | 18.286 | 2596 | 2601 | 2604 | rBV | 445594 | 598711 | 5.95% | 0.310% |
| 51 | 18.322 | 2604 | 2607 | 2614 | rVB2 | 386198 | 533677 | 5.30% | 0.277% |
| 52 | 18.533 | 2640 | 2643 | 2648 | rVV | 183836 | 265067 | 2.63% | 0.137% |
| 53 | 18.586 | 2648 | 2652 | 2655 | rVV | 179002 | 258754 | 2.57% | 0.134% |
| 54 | 18.627 | 2656 | 2659 | 2663 | rVB | 134573 | 180285 | 1.79% | 0.093% |
| 55 | 18.710 | 2668 | 2673 | 2677 | rBV | 379049 | 594193 | 5.90% | 0.308% |
| 56 | 18.769 | 2678 | 2683 | 2687 | rBV2 | 306458 | 492278 | 4.89% | 0.255% |
| 57 | 18.845 | 2692 | 2696 | 2705 | rVV | 307669 | 524917 | 5.21% | 0.272% |
| 58 | 18.969 | 2712 | 2717 | 2725 | rVB | 6622996 | 8863261 | 88.05% | 4.594% |
| 59 | 19.045 | 2726 | 2730 | 2733 | rBV | 114703 | 158537 | 1.57% | 0.082% |
| 60 | 19.174 | 2747 | 2752 | 2755 | rBV5 | 118170 | 224515 | 2.23% | 0.116% |
| 61 | 19.216 | 2755 | 2759 | 2764 | rVB2 | 186399 | 276134 | 2.74% | 0.143% |
| 62 | 19.310 | 2769 | 2775 | 2777 | rVV2 | 6791103 | 10066124 | 100.00% | 5.218% |
| 63 | 19.333 | 2777 | 2779 | 2787 | rVV | 5481525 | 7100209 | 70.54% | 3.681% |
| 64 | 19.410 | 2788 | 2792 | 2799 | rVB2 | 244371 | 477959 | 4.75% | 0.248% |
| 65 | 19.516 | 2806 | 2810 | 2817 | rBV | 304234 | 431876 | 4.29% | 0.224% |
| 66 | 19.674 | 2830 | 2837 | 2842 | rBV4 | 376882 | 950114 | 9.44% | 0.493% |
| 67 | 19.804 | 2854 | 2859 | 2861 | rVV4 | 308900 | 509393 | 5.06% | 0.264% |
| 68 | 19.839 | 2861 | 2865 | 2871 | rVV2 | 768494 | 1121351 | 11.14% | 0.581% |
| 69 | 19.898 | 2871 | 2875 | 2878 | rVV | 317233 | 336115 | 3.34% | 0.174% |
| 70 | 19.939 | 2878 | 2882 | 2886 | rVV2 | 559734 | 680548 | 6.76% | 0.353% |
| 71 | 19.992 | 2886 | 2891 | 2895 | rVV2 | 601489 | 887446 | 8.82% | 0.460% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN122619\
Data File : BN009178.D
Acq On : 26 Dec 2019 18:28
Operator : JU
Sample : K6381-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** CB5R2

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 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-BN122419MA.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 20.033 | 2895 | 2898 | 2902 | rVB2 | 228594 | 298310 | 2.96% | 0.155% |
| 73 | 20.133 | 2912 | 2915 | 2919 | rBV | 304416 | 342067 | 3.40% | 0.177% |
| 74 | 20.180 | 2919 | 2923 | 2928 | rBV3 | 310689 | 527193 | 5.24% | 0.273% |
| 75 | 20.268 | 2934 | 2938 | 2949 | rVB | 709007 | 1054388 | 10.47% | 0.547% |
| 76 | 20.398 | 2956 | 2960 | 2964 | rBV2 | 364204 | 411185 | 4.08% | 0.213% |
| 77 | 20.586 | 2989 | 2992 | 2999 | rVB | 483996 | 679770 | 6.75% | 0.352% |
| 78 | 20.751 | 3015 | 3020 | 3024 | rBV2 | 494142 | 856509 | 8.51% | 0.444% |
| 79 | 20.792 | 3024 | 3027 | 3030 | rVV | 500044 | 557788 | 5.54% | 0.289% |
| 80 | 20.857 | 3030 | 3038 | 3049 | rVB4 | 2823340 | 5251755 | 52.17% | 2.722% |
| 81 | 21.051 | 3069 | 3071 | 3074 | rBV | 204277 | 233987 | 2.32% | 0.121% |
| 82 | 21.104 | 3074 | 3080 | 3084 | rVV3 | 4377632 | 8729928 | 86.73% | 4.525% |
| 83 | 21.145 | 3084 | 3087 | 3098 | rVB | 2690098 | 3682784 | 36.59% | 1.909% |
| 84 | 21.263 | 3104 | 3107 | 3110 | rBV | 332058 | 431774 | 4.29% | 0.224% |
| 85 | 21.298 | 3110 | 3113 | 3121 | rVB | 1494727 | 1753269 | 17.42% | 0.909% |
| 86 | 21.415 | 3130 | 3133 | 3139 | rBV2 | 316181 | 470592 | 4.68% | 0.244% |
| 87 | 21.651 | 3170 | 3173 | 3177 | rVB | 498270 | 564618 | 5.61% | 0.293% |
| 88 | 21.721 | 3179 | 3185 | 3195 | rVV3 | 2545850 | 4130687 | 41.04% | 2.141% |
| 89 | 21.962 | 3223 | 3226 | 3232 | rVB | 693270 | 781195 | 7.76% | 0.405% |
| 90 | 22.162 | 3255 | 3260 | 3268 | rBV | 2504725 | 3388354 | 33.66% | 1.756% |
| 91 | 22.645 | 3332 | 3342 | 3346 | rBV2 | 3859716 | 9213258 | 91.53% | 4.776% |
| 92 | 22.686 | 3346 | 3349 | 3359 | rVB3 | 1221024 | 2090233 | 20.77% | 1.084% |
| 93 | 23.068 | 3409 | 3414 | 3417 | rBV | 886113 | 1493314 | 14.84% | 0.774% |
| 94 | 23.115 | 3417 | 3422 | 3426 | rVV | 3221803 | 5551096 | 55.15% | 2.878% |
| 95 | 23.174 | 3426 | 3432 | 3438 | rVB2 | 2228147 | 5303261 | 52.68% | 2.749% |
| 96 | 23.245 | 3439 | 3444 | 3449 | rBV | 1855285 | 3254455 | 32.33% | 1.687% |
| 97 | 23.786 | 3530 | 3536 | 3542 | rVB | 2211479 | 3915519 | 38.90% | 2.030% |
| 98 | 23.862 | 3543 | 3549 | 3557 | rBV2 | 1040803 | 2306374 | 22.91% | 1.196% |
| 99 | 24.474 | 3648 | 3653 | 3665 | rVB | 923693 | 2035874 | 20.23% | 1.055% |
| 100 | 25.286 | 3785 | 3791 | 3796 | rBV | 586726 | 1452272 | 14.43% | 0.753% |

Sum of corrected areas: 192910738

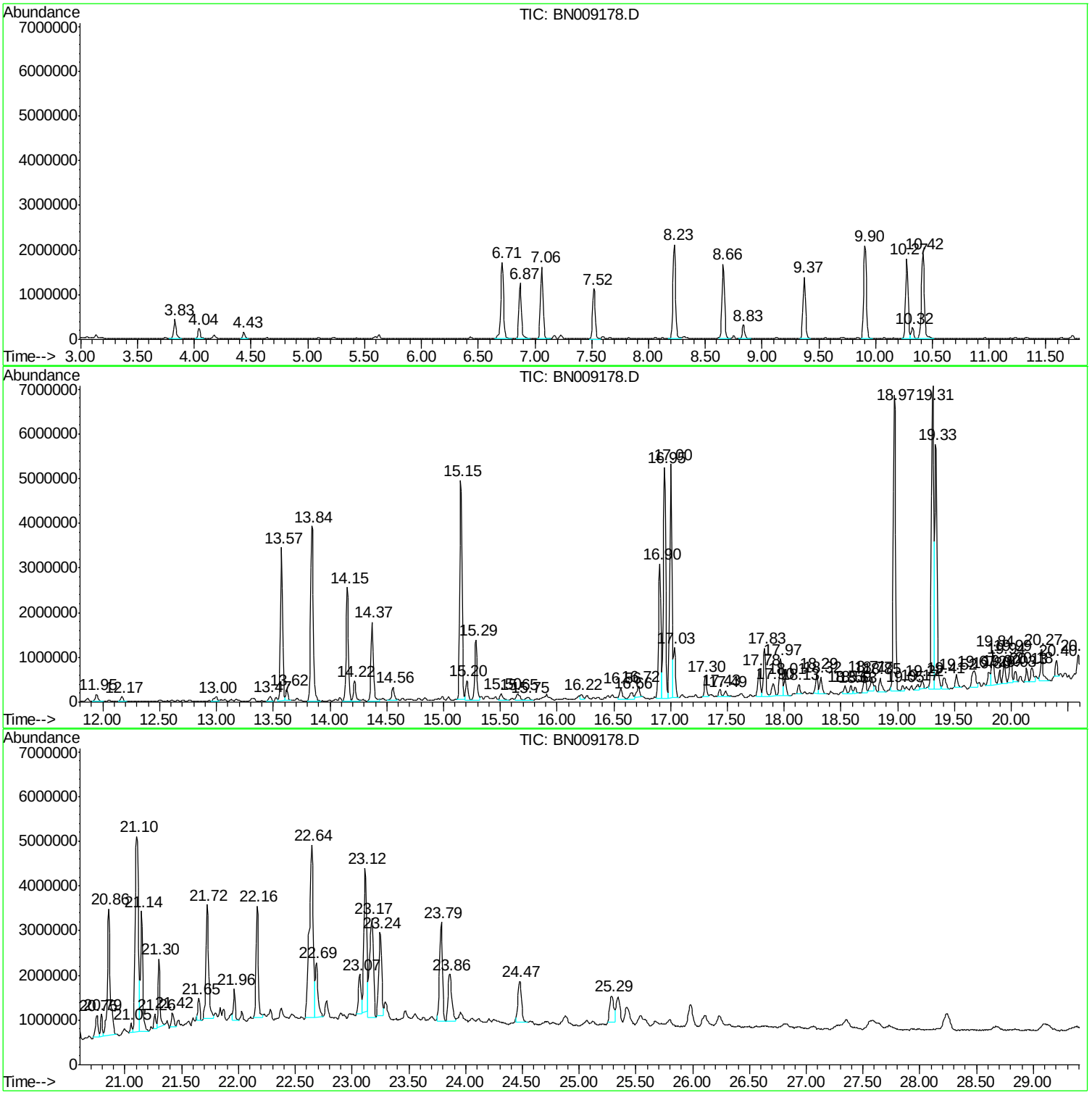
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN122619\
Data File : BN009178.D
Acq On : 26 Dec 2019 18:28
Operator : JU
Sample : K6381-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** CB5R2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN122419MA.M
Quant Title : SVOA CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN122619\
Data File : BN009178.D
Acq On : 26 Dec 2019 18:28
Operator : JU
Sample : K6381-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** CB5R2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN122419MA.M
Quant Title : SVOA CALIBRATION

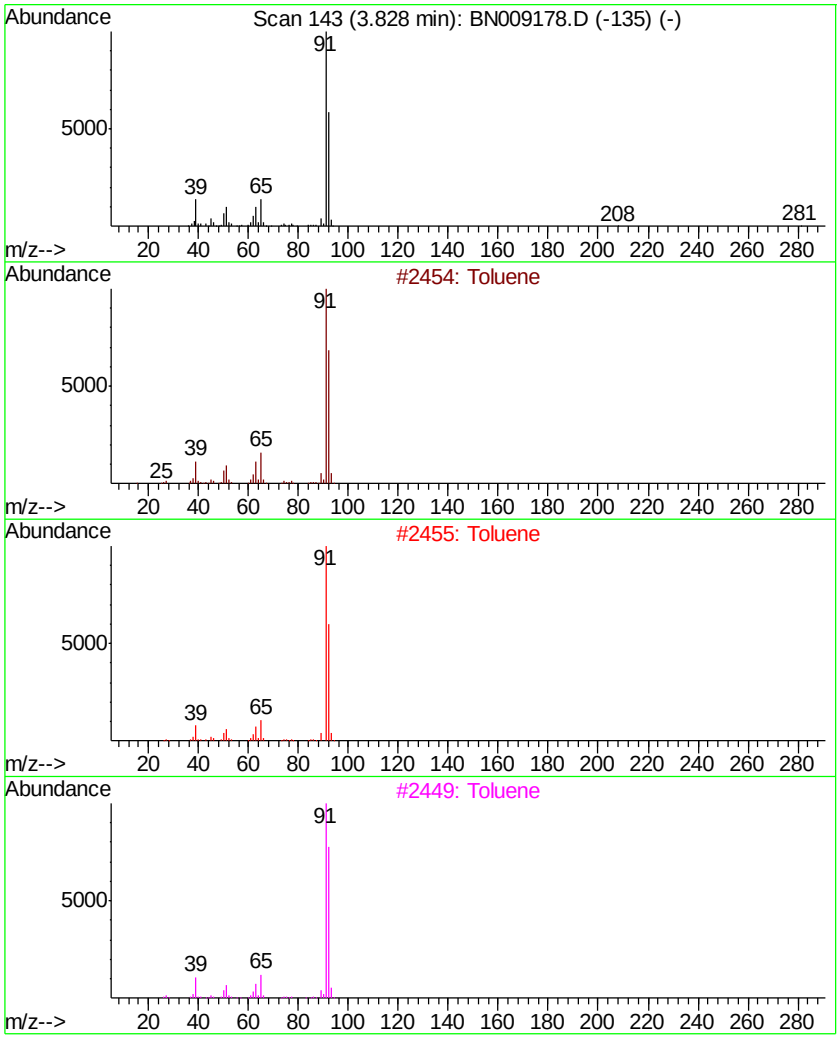
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

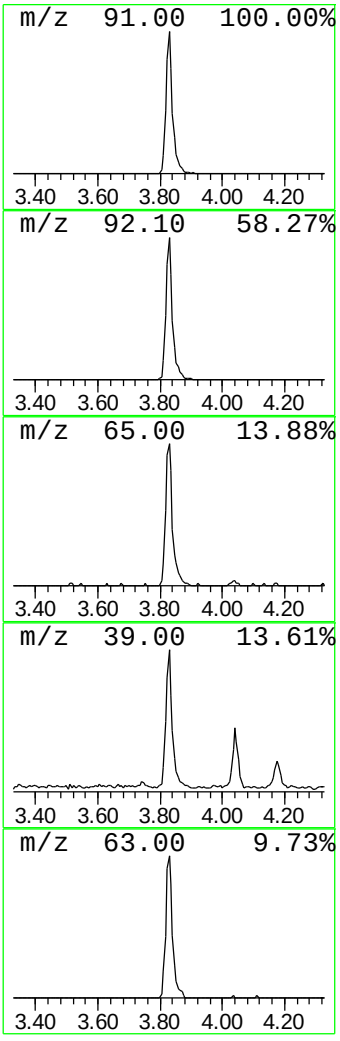
**********

Peak Number 1 Toluene Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.83 | 7.02 ng/ul | 633169 | 1,4-Dichlorobenzene-d4 | 7.52 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Toluene | 92 | C7H8 | 000108-88-3 | 95 |
| 2 | Toluene | 92 | C7H8 | 000108-88-3 | 94 |
| 3 | Toluene | 92 | C7H8 | 000108-88-3 | 91 |
| 4 | Toluene | 92 | C7H8 | 000108-88-3 | 91 |
| 5 | Toluene | 92 | C7H8 | 000108-88-3 | 91 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN122619\
Data File : BN009178.D
Acq On : 26 Dec 2019 18:28
Operator : JU
Sample : K6381-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** CB5R2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN122419MA.M
Quant Title : SVOA CALIBRATION

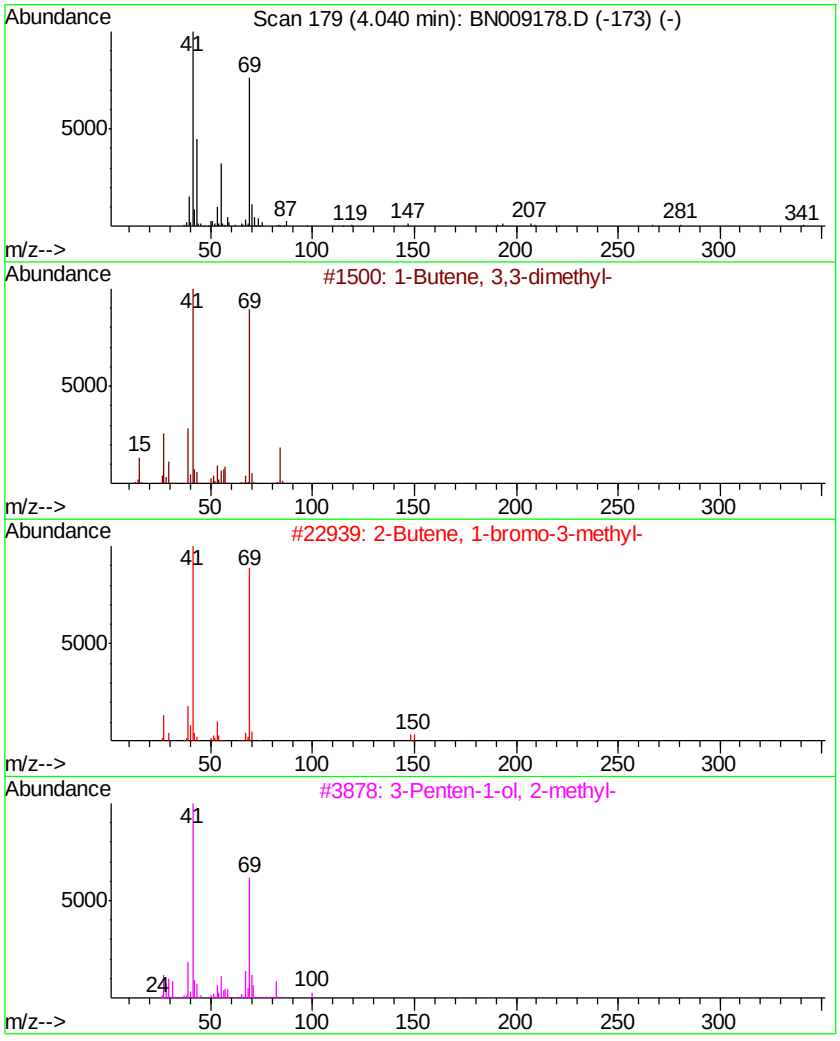
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

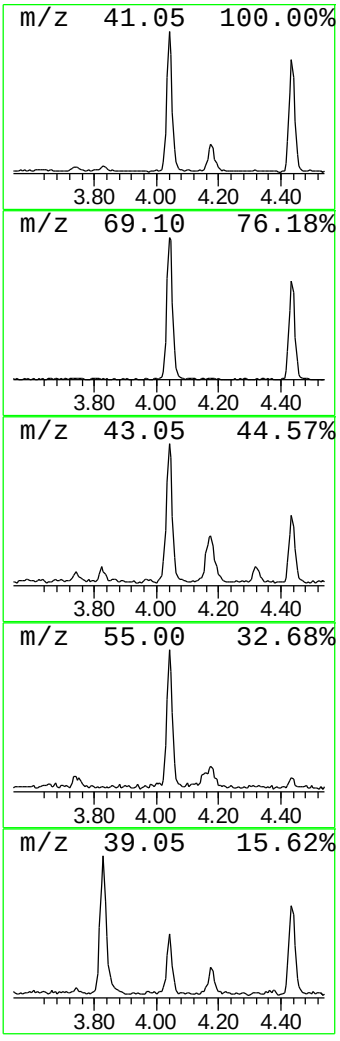
**********

Peak Number 2 1-Butene, 3,3-dimethyl- Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.04 | 3.45 ng/ul | 311364 | 1,4-Dichlorobenzene-d4 | 7.52 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Butene, 3,3-dimethyl- | 84 | C6H12 | 000558-37-2 | 64 |
| 2 | 2-Butene, 1-bromo-3-methyl- | 148 | C5H9Br | 000870-63-3 | 64 |
| 3 | 3-Penten-1-ol, 2-methyl- | 100 | C6H12O | 062238-37-3 | 56 |
| 4 | 2-Butenoic acid, 4-nitrophenyl e... | 207 | C10H9NO4 | 014617-88-0 | 45 |
| 5 | 1-Pentyn-3-ol, 3,4-dimethyl- | 112 | C7H12O | 001482-15-1 | 42 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN122619\
Data File : BN009178.D
Acq On : 26 Dec 2019 18:28
Operator : JU
Sample : K6381-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** CB5R2

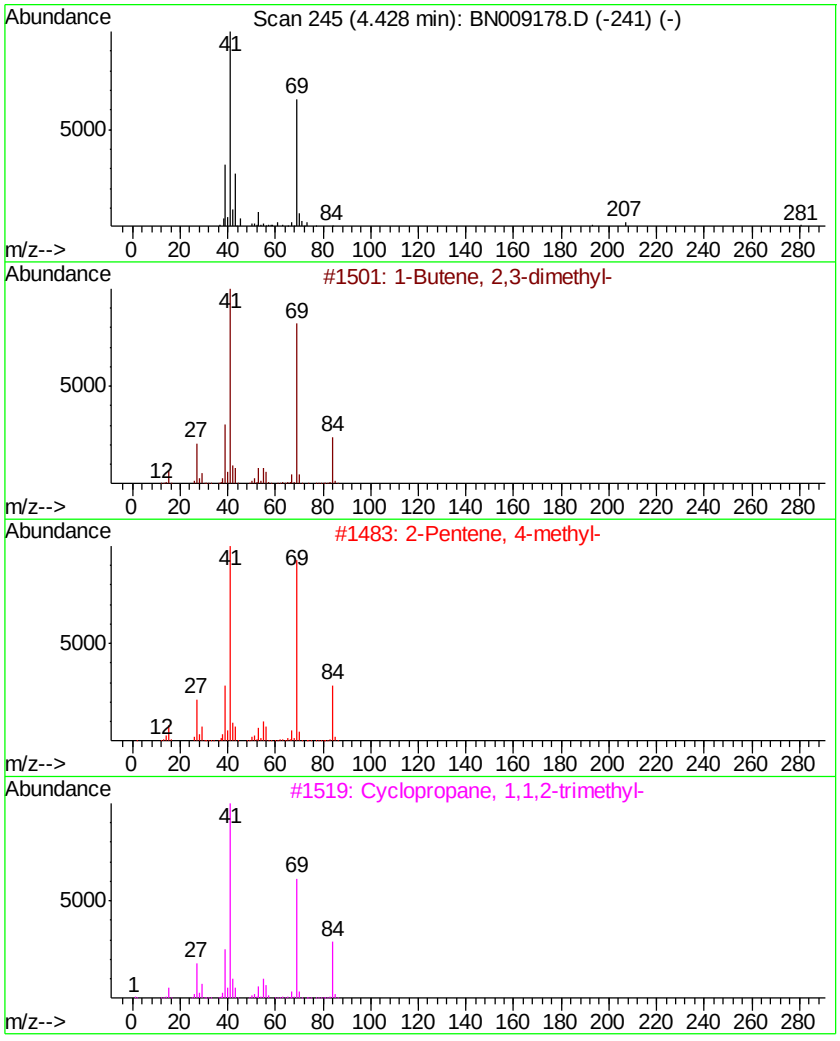
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN122419MA.M
Quant Title : SVOA CALIBRATION

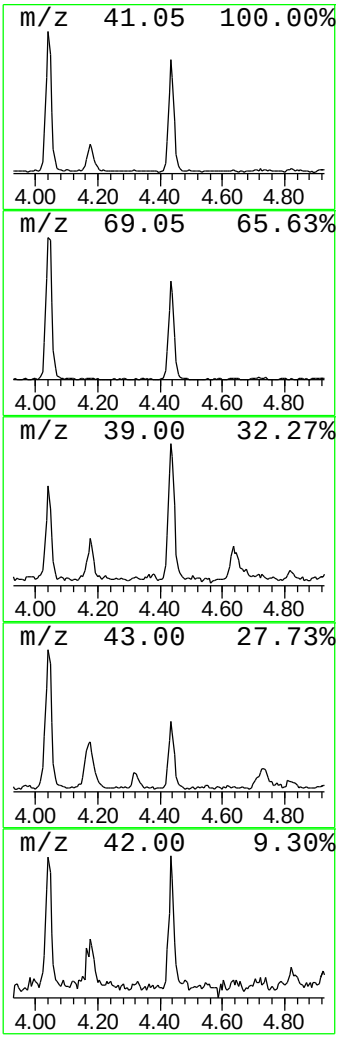
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 3 1-Butene, 2,3-dimethyl- Concentration Rank 24

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.43 | 2.20 ng/ul | 198102 | 1,4-Dichlorobenzene-d4 | 7.52 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Butene, 2,3-dimethyl- | 84 | C6H12 | 000563-78-0 | 53 |
| 2 | 2-Pentene, 4-methyl- | 84 | C6H12 | 004461-48-7 | 53 |
| 3 | Cyclopropane, 1,1,2-trimethyl- | 84 | C6H12 | 004127-45-1 | 53 |
| 4 | 2-Pentene, 4-methyl- | 84 | C6H12 | 004461-48-7 | 42 |
| 5 | 2-Butene, 2,3-dimethyl- | 84 | C6H12 | 000563-79-1 | 42 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN122619\
Data File : BN009178.D
Acq On : 26 Dec 2019 18:28
Operator : JU
Sample : K6381-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** CB5R2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN122419MA.M
Quant Title : SVOA CALIBRATION

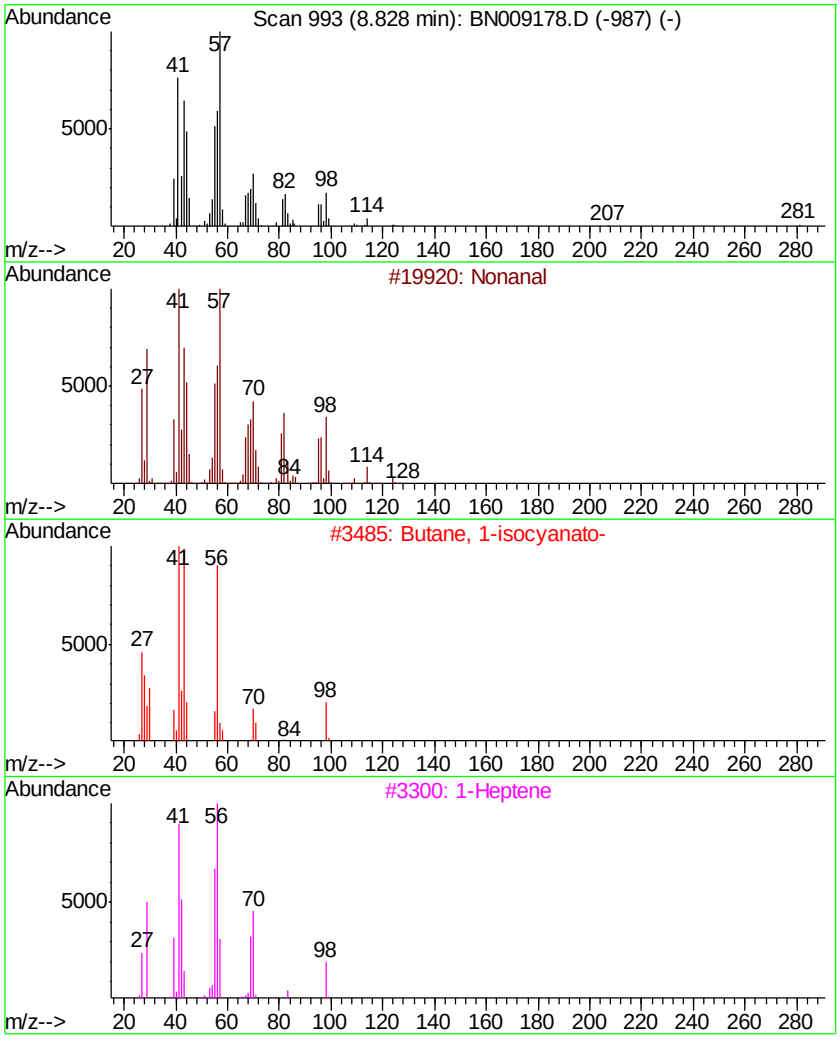
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

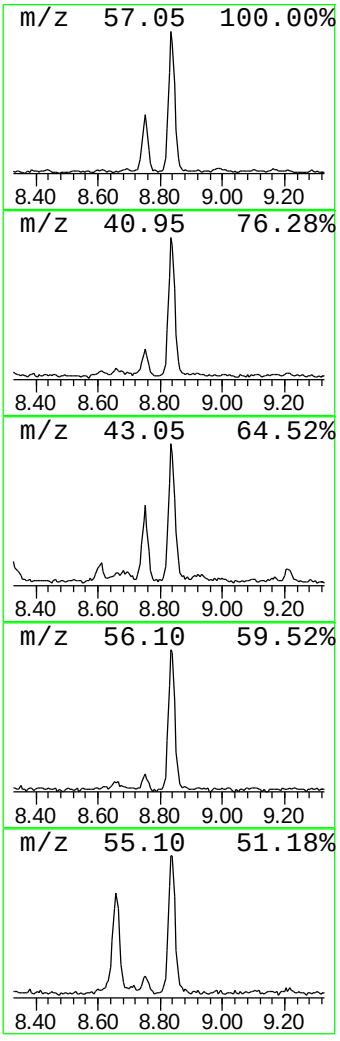
**********

Peak Number 4 unknown-01 Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.83 | 5.34 ng/ul | 482061 | 1,4-Dichlorobenzene-d4 | 7.52 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonanal | 142 | C9H18O | 000124-19-6 | 47 |
| 2 | Butane, 1-isocyanato- | 99 | C5H9NO | 000111-36-4 | 45 |
| 3 | 1-Heptene | 98 | C7H14 | 000592-76-7 | 43 |
| 4 | 2-Hepten-1-ol, (E)- | 114 | C7H14O | 033467-76-4 | 41 |
| 5 | 1-Heptene | 98 | C7H14 | 000592-76-7 | 38 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN122619\
Data File : BN009178.D
Acq On : 26 Dec 2019 18:28
Operator : JU
Sample : K6381-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** CB5R2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN122419MA.M
Quant Title : SVOA CALIBRATION

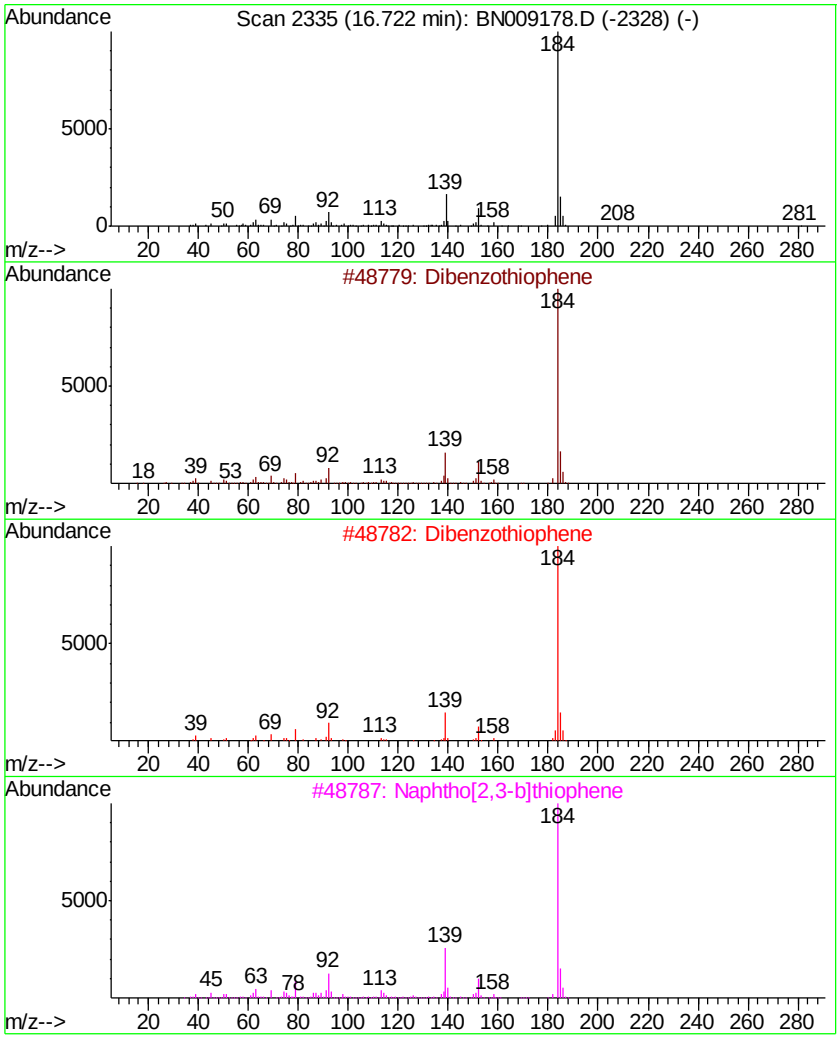
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

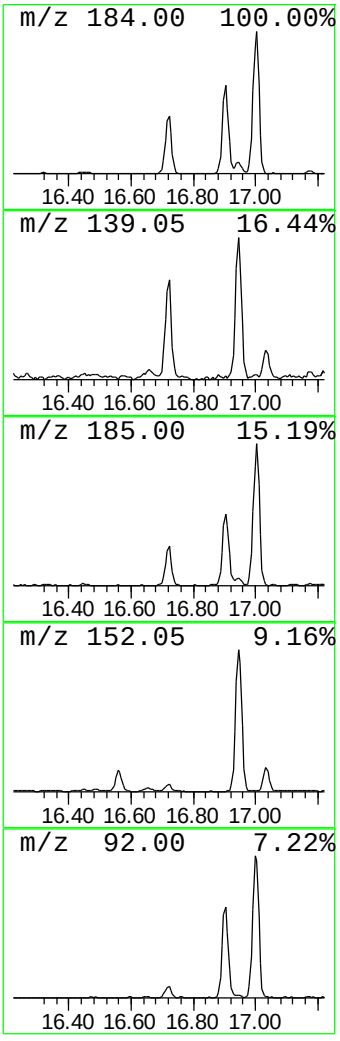
**********

Peak Number 5 Dibenzothiophene Concentration Rank 26

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.72 | 2.14 ng/ul | 449244 | Phenanthrene-d10 | 16.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dibenzothiophene | 184 | C12H8S | 000132-65-0 | 97 |
| 2 | Dibenzothiophene | 184 | C12H8S | 000132-65-0 | 96 |
| 3 | Naphtho[2,3-b]thiophene | 184 | C12H8S | 000268-77-9 | 95 |
| 4 | Dibenzothiophene | 184 | C12H8S | 000132-65-0 | 94 |
| 5 | Azuleno(2,1-b)thiophene | 184 | C12H8S | 000248-13-5 | 91 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN122619\
Data File : BN009178.D
Acq On : 26 Dec 2019 18:28
Operator : JU
Sample : K6381-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** CB5R2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN122419MA.M
Quant Title : SVOA CALIBRATION

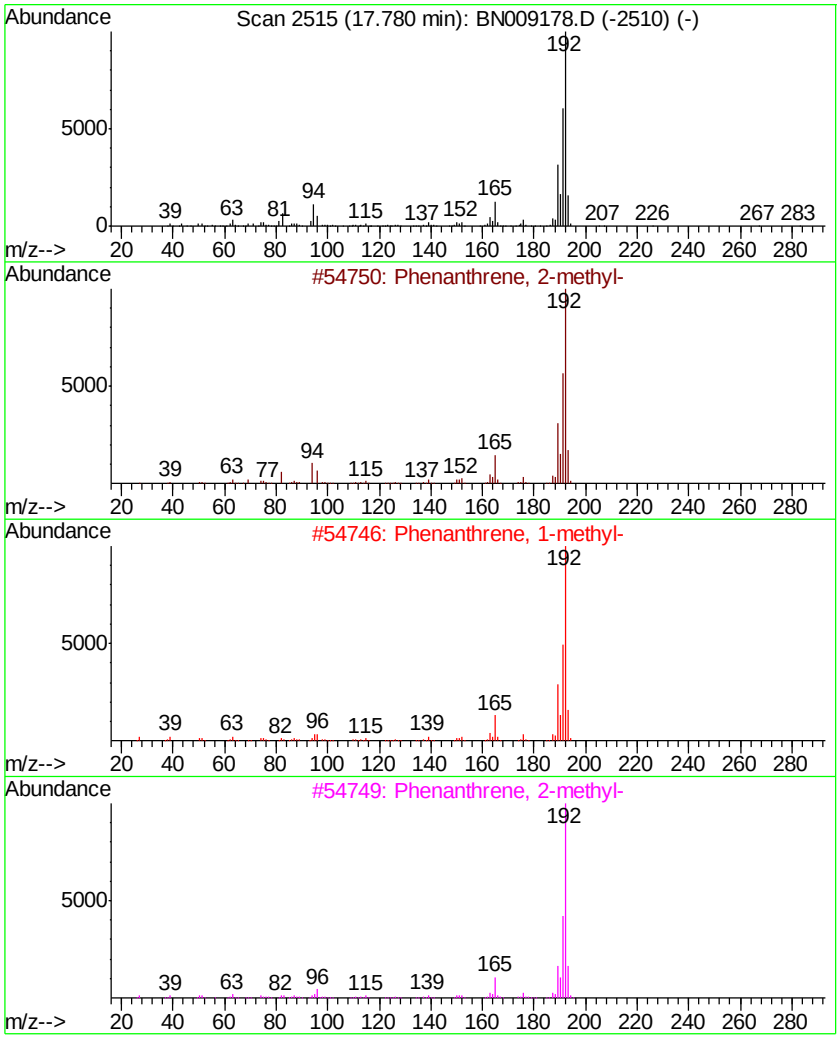
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

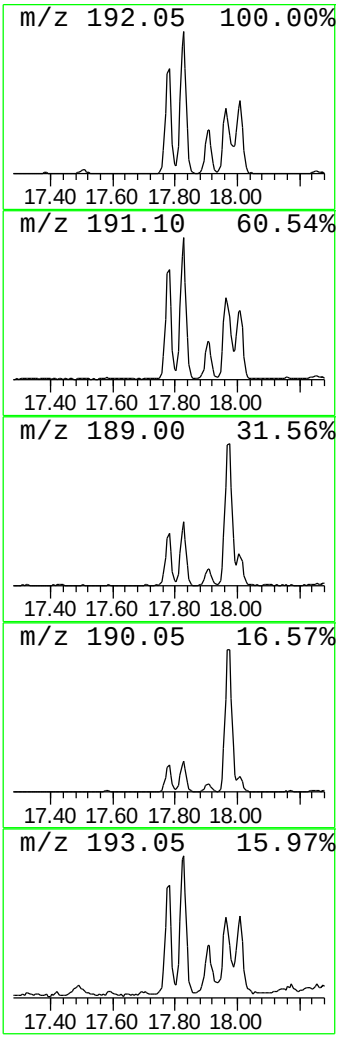
**********

Peak Number 6 Phenanthrene, 2-methyl- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.78 | 4.12 ng/ul | 864340 | Phenanthrene-d10 | 16.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 98 |
| 2 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 97 |
| 3 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 96 |
| 4 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 96 |
| 5 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 95 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN122619\
Data File : BN009178.D
Acq On : 26 Dec 2019 18:28
Operator : JU
Sample : K6381-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** CB5R2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN122419MA.M
Quant Title : SVOA CALIBRATION

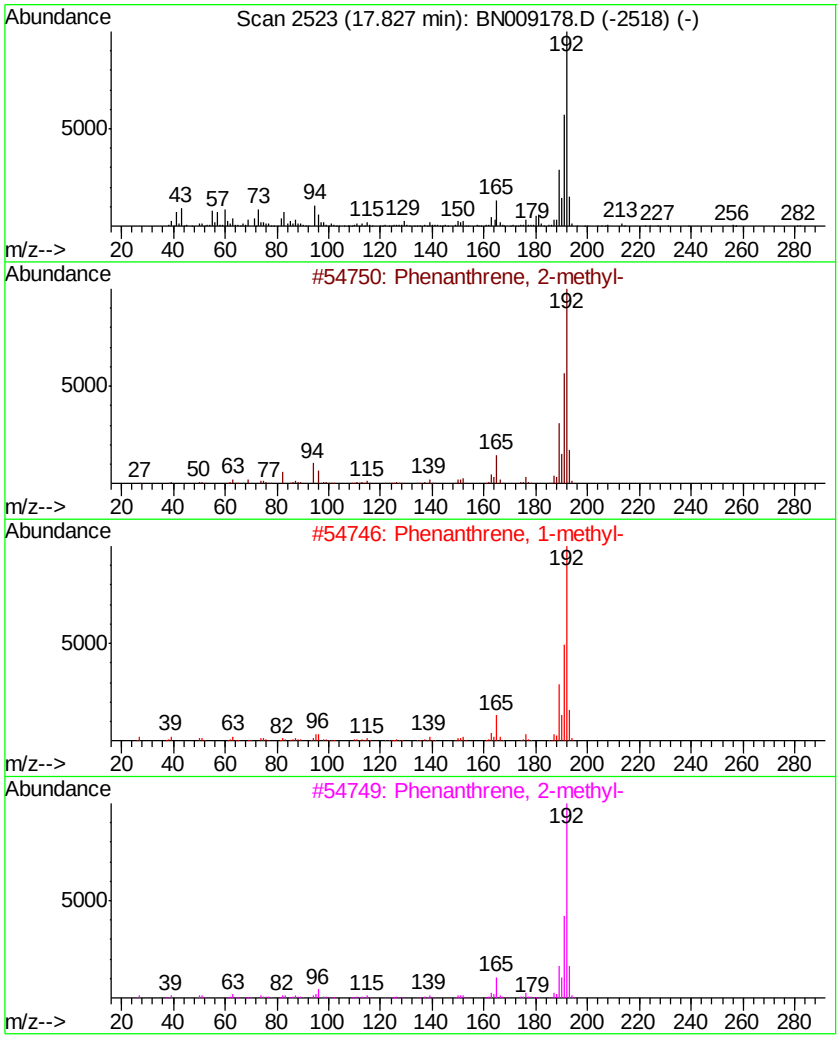
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

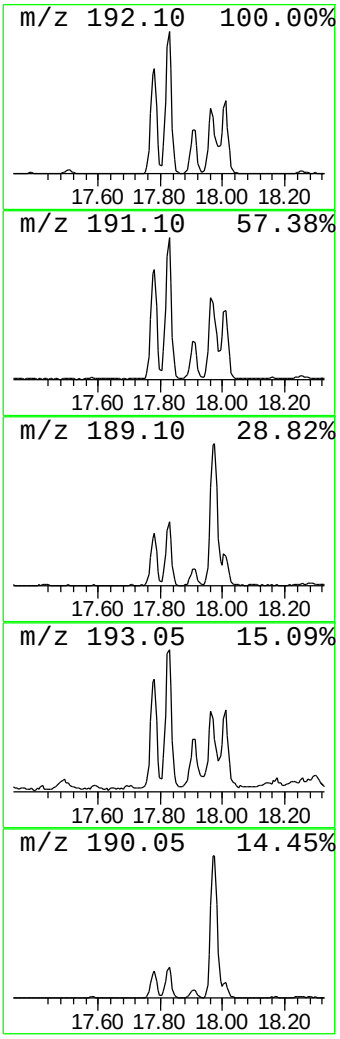
**********

Peak Number 7 Phenanthrene, 1-methyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.83 | 7.22 ng/ul | 1515130 | Phenanthrene-d10 | 16.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 98 |
| 2 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 97 |
| 3 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 96 |
| 4 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 96 |
| 5 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 96 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN122619\
Data File : BN009178.D
Acq On : 26 Dec 2019 18:28
Operator : JU
Sample : K6381-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** CB5R2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN122419MA.M
Quant Title : SVOA CALIBRATION

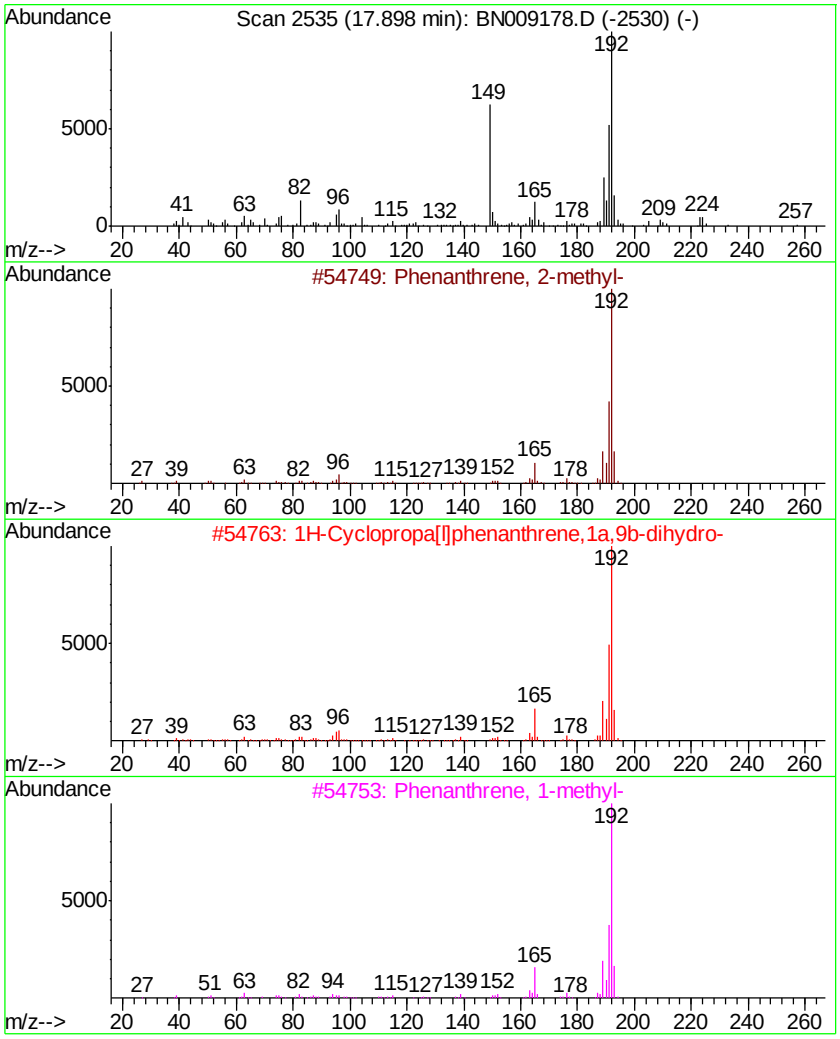
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

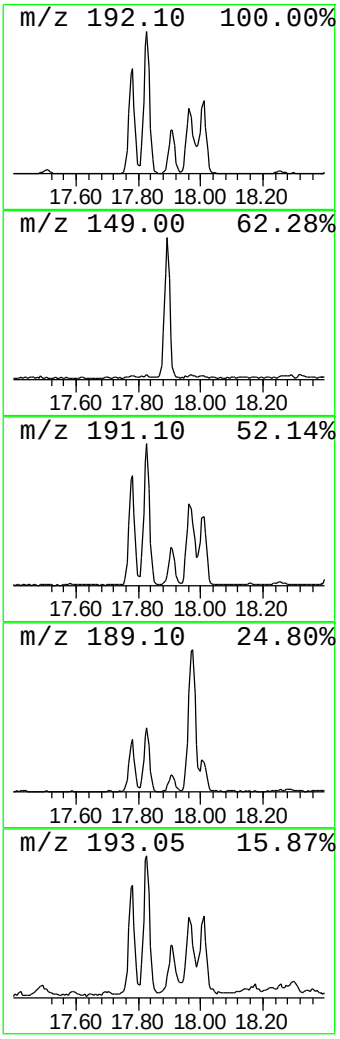
**********

Peak Number 8 1H-Cyclopropa[l]phenanthren... Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.90 | 2.51 ng/ul | 526707 | Phenanthrene-d10 | 16.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 96 |
| 2 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 96 |
| 3 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 95 |
| 4 | 1H-Indene, 2-phenyl- | 192 | C15H12 | 004505-48-0 | 95 |
| 5 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 95 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN122619\
Data File : BN009178.D
Acq On : 26 Dec 2019 18:28
Operator : JU
Sample : K6381-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** CB5R2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN122419MA.M
Quant Title : SVOA CALIBRATION

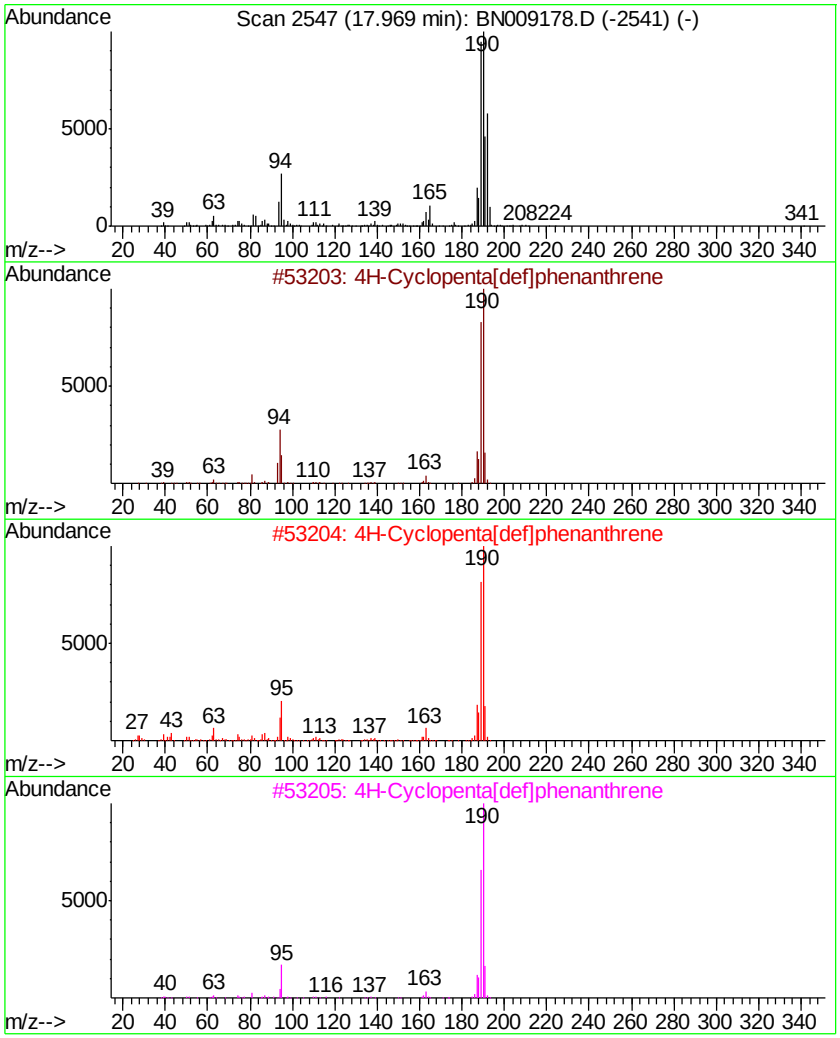
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

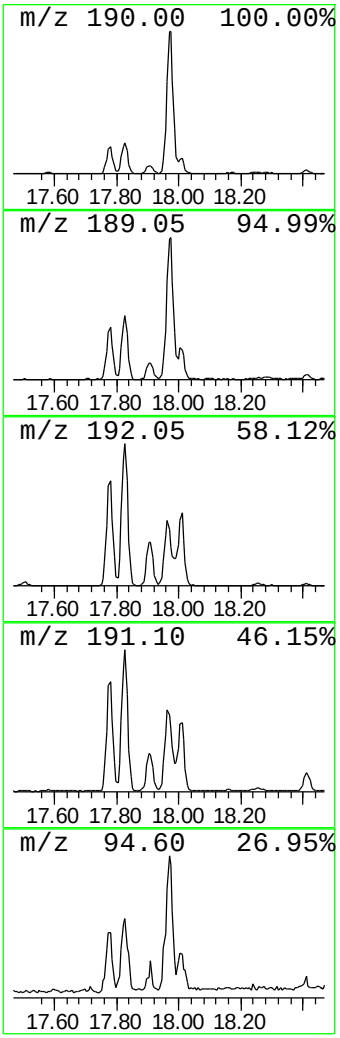
**********

Peak Number 9 4H-Cyclopenta[def]phenanthrene Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.97 | 6.92 ng/ul | 1452910 | Phenanthrene-d10 | 16.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 64 |
| 2 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 55 |
| 3 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 49 |
| 4 | Phenanthrene, 4-methyl- | 192 | C15H12 | 000832-64-4 | 20 |
| 5 | 1H-Indene, 2-phenyl- | 192 | C15H12 | 004505-48-0 | 20 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN122619\
Data File : BN009178.D
Acq On : 26 Dec 2019 18:28
Operator : JU
Sample : K6381-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** CB5R2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN122419MA.M
Quant Title : SVOA CALIBRATION

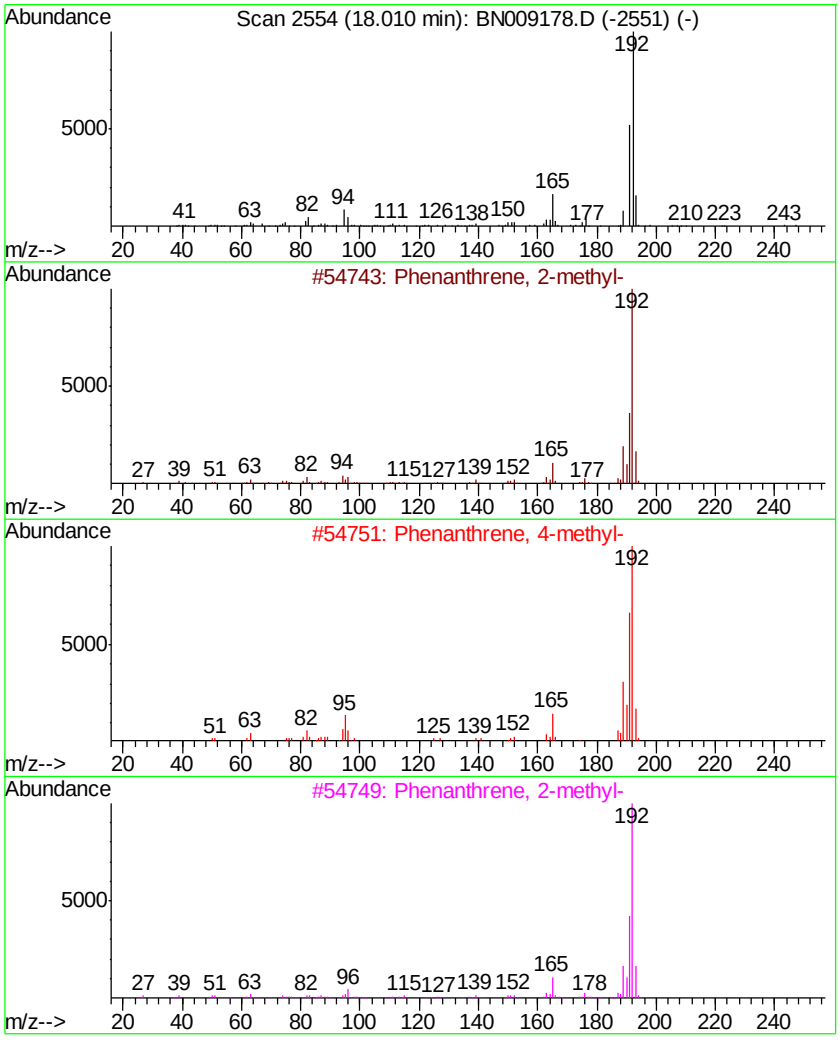
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

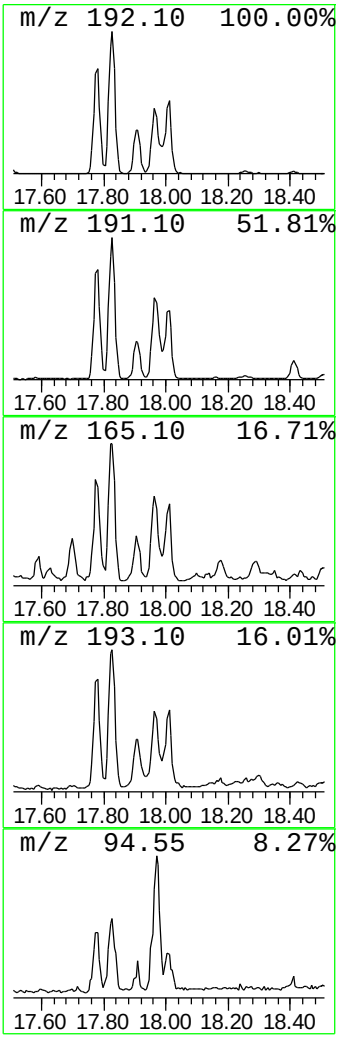
**********

Peak Number 10 Phenanthrene, 4-methyl- Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.01 | 2.58 ng/ul | 542561 | Phenanthrene-d10 | 16.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 90 |
| 2 | Phenanthrene, 4-methyl- | 192 | C15H12 | 000832-64-4 | 90 |
| 3 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 90 |
| 4 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 90 |
| 5 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 90 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN122619\
Data File : BN009178.D
Acq On : 26 Dec 2019 18:28
Operator : JU
Sample : K6381-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** CB5R2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN122419MA.M
Quant Title : SVOA CALIBRATION

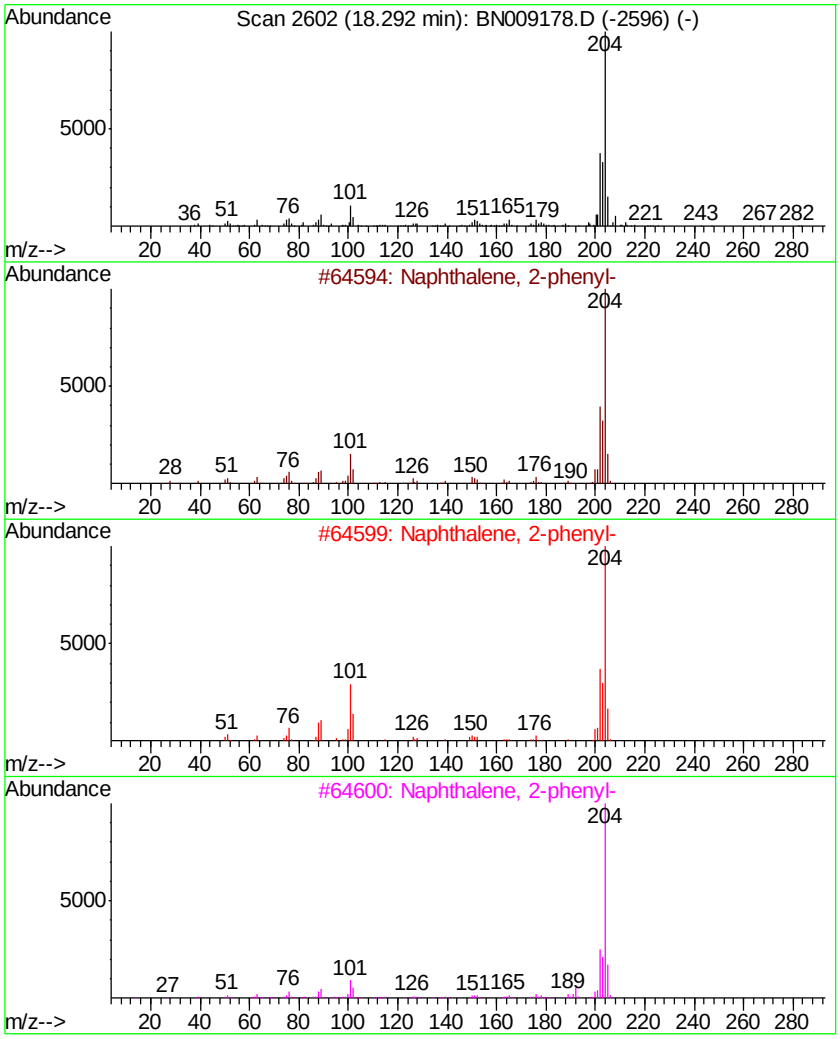
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

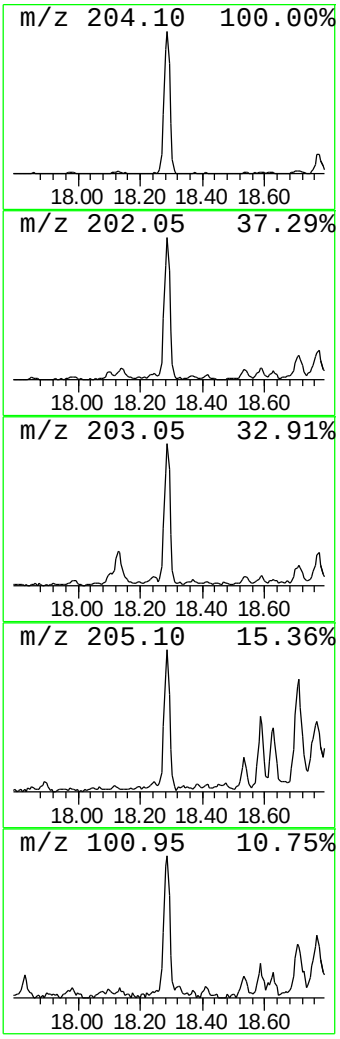
**********

Peak Number 11 Naphthalene, 2-phenyl- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.29 | 2.85 ng/ul | 598711 | Phenanthrene-d10 | 16.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 70 |
| 2 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 70 |
| 3 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 64 |
| 4 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 64 |
| 5 | 9,10-Bis(bromomethyl)anthracene | 362 | C16H12Br2 | 034373-96-1 | 62 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN122619\
Data File : BN009178.D
Acq On : 26 Dec 2019 18:28
Operator : JU
Sample : K6381-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** CB5R2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN122419MA.M
Quant Title : SVOA CALIBRATION

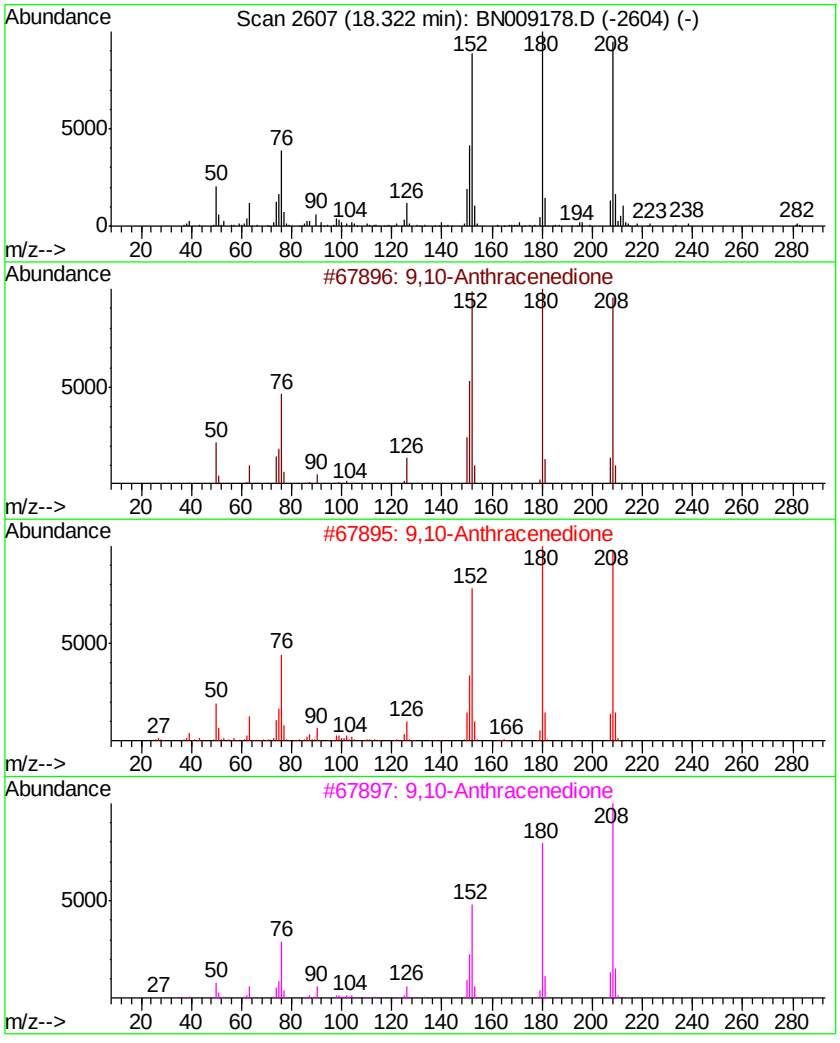
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

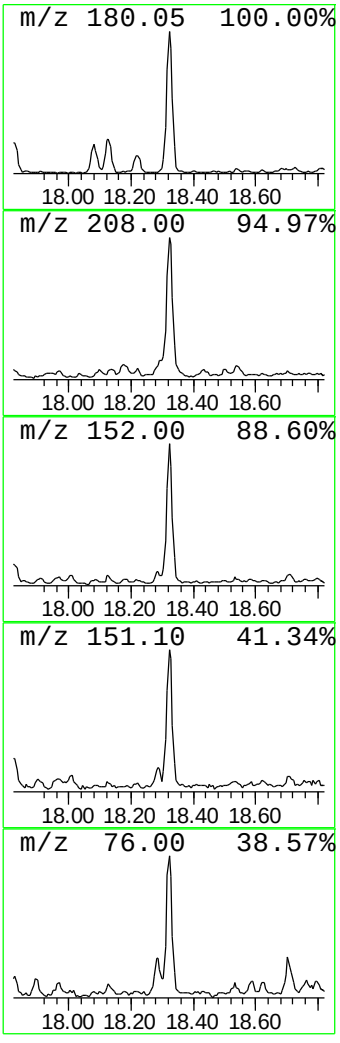
**********

Peak Number 12 9,10-Anthracenedione Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.32 | 2.54 ng/ul | 533677 | Phenanthrene-d10 | 16.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 99 |
| 2 | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 99 |
| 3 | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 96 |
| 4 | Benzo[c]cinnoline | 180 | C12H8N2 | 000230-17-1 | 90 |
| 5 | Benzo[c]cinnoline | 180 | C12H8N2 | 000230-17-1 | 86 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN122619\
Data File : BN009178.D
Acq On : 26 Dec 2019 18:28
Operator : JU
Sample : K6381-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** CB5R2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN122419MA.M
Quant Title : SVOA CALIBRATION

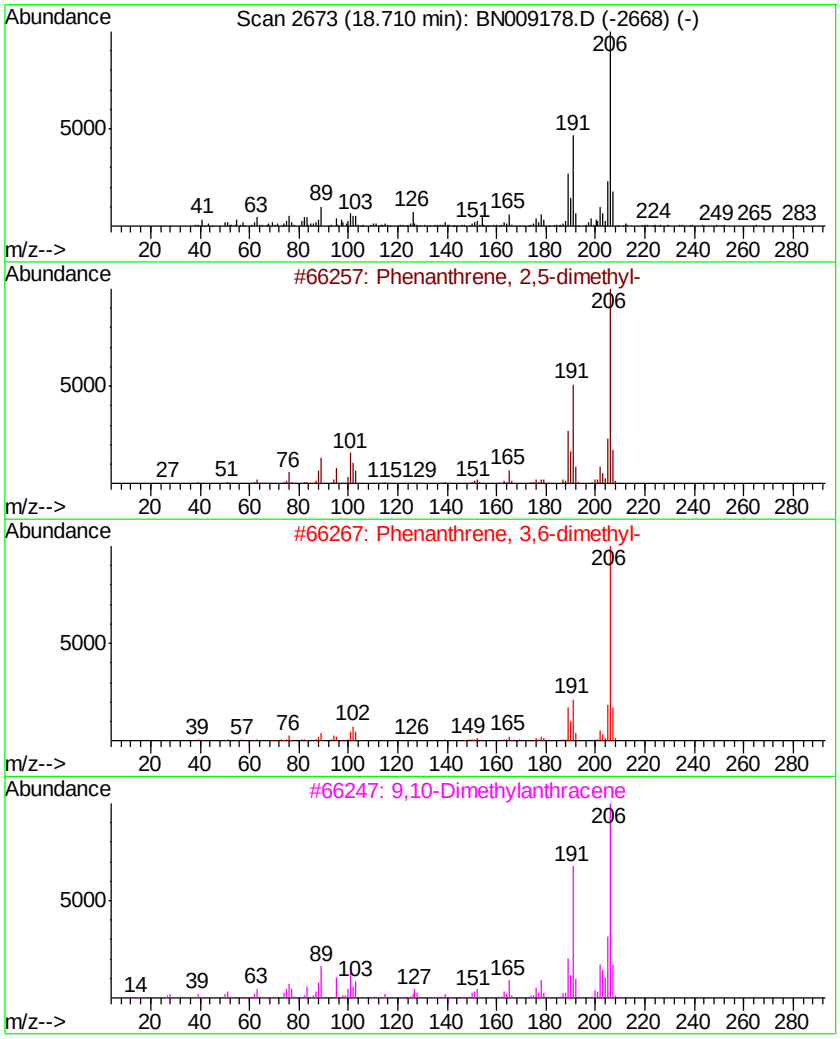
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

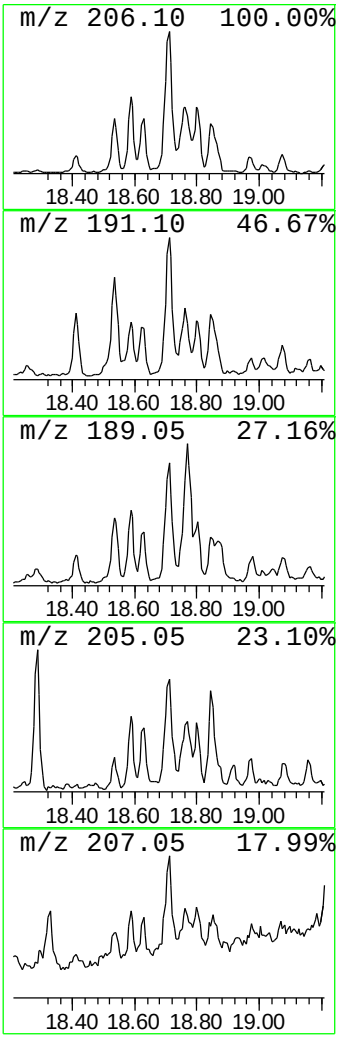
**********

Peak Number 13 Phenanthrene, 2,5-dimethyl- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.71 | 2.83 ng/ul | 594193 | Phenanthrene-d10 | 16.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 96 |
| 2 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 93 |
| 3 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 91 |
| 4 | Phenanthrene, 2,7-dimethyl- | 206 | C16H14 | 001576-69-8 | 90 |
| 5 | Phenanthrene, 1,7-dimethyl- | 206 | C16H14 | 000483-87-4 | 90 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN122619\
Data File : BN009178.D
Acq On : 26 Dec 2019 18:28
Operator : JU
Sample : K6381-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** CB5R2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN122419MA.M
Quant Title : SVOA CALIBRATION

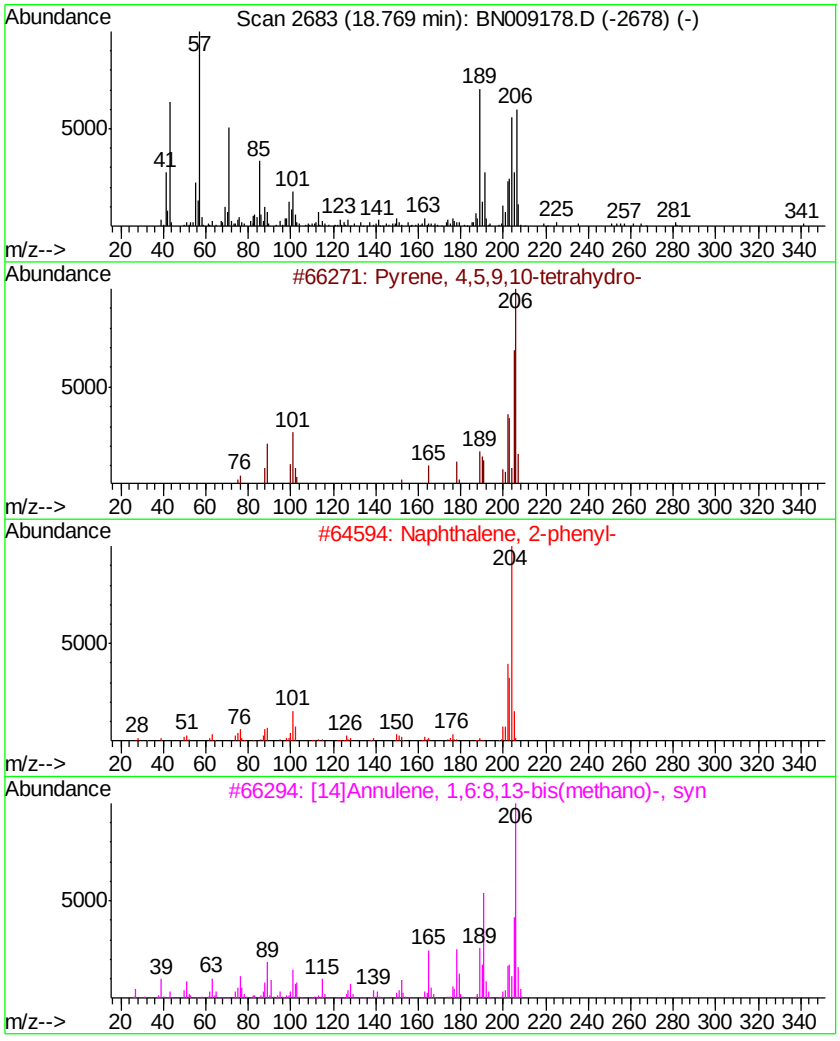
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

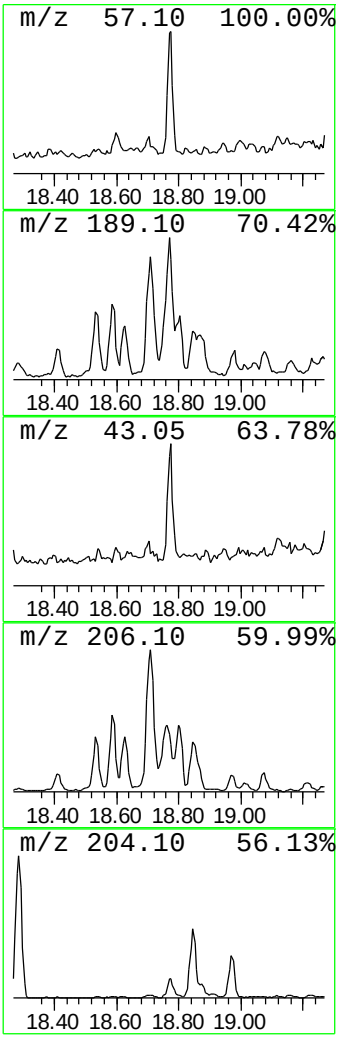
**********

Peak Number 14 unknown-02 Concentration Rank 23

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.77 | 2.34 ng/ul | 492278 | Phenanthrene-d10 | 16.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 4,5,9,10-tetrahydro- | 206 | C16H14 | 000781-17-9 | 25 |
| 2 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 25 |
| 3 | [14]Annulene, 1,6:8,13-bis(metha... | 206 | C16H14 | 085385-68-8 | 22 |
| 4 | 2,5,5,8a-Tetramethyl-6,7,8,8a-te... | 204 | C14H20O | 124957-09-1 | 22 |
| 5 | Pyrene, 4,5,9,10-tetrahydro- | 206 | C16H14 | 000781-17-9 | 20 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN122619\
Data File : BN009178.D
Acq On : 26 Dec 2019 18:28
Operator : JU
Sample : K6381-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** CB5R2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN122419MA.M
Quant Title : SVOA CALIBRATION

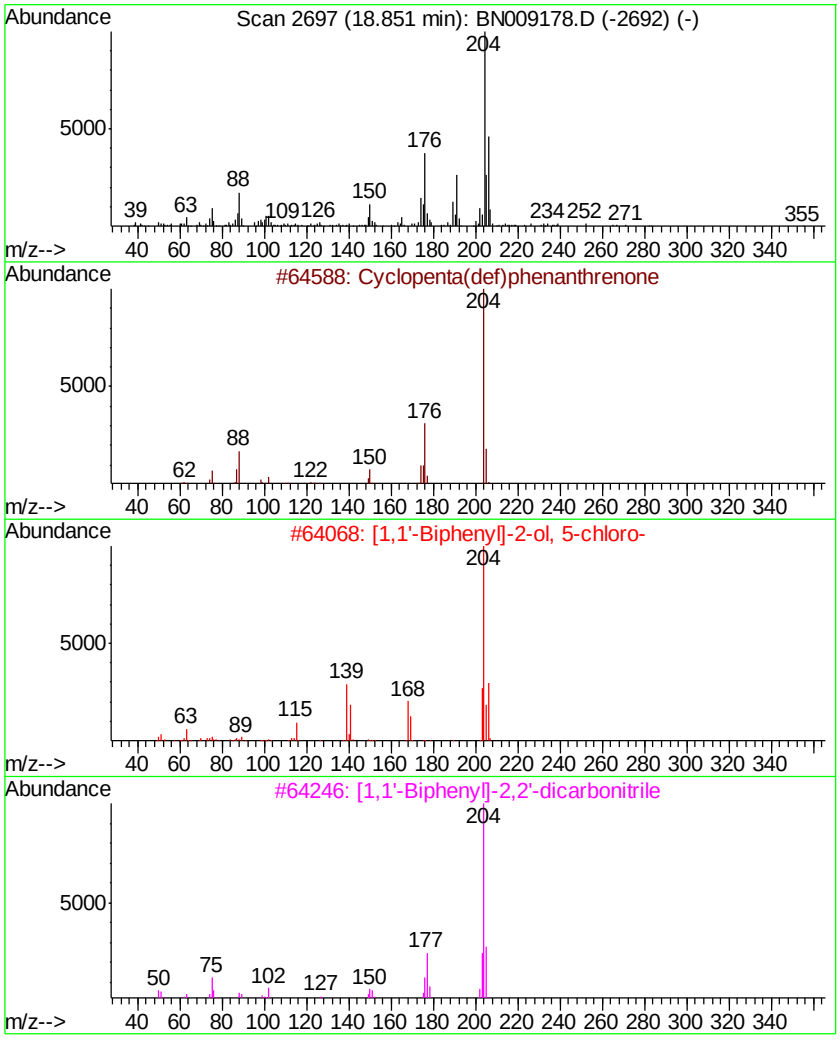
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

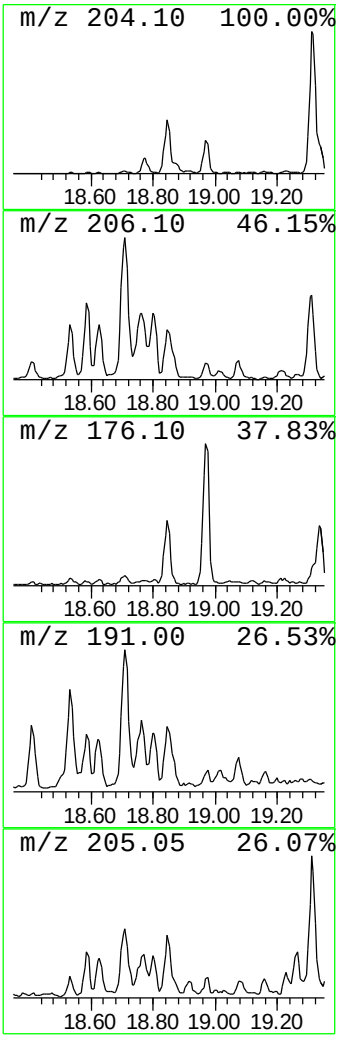
**********

Peak Number 15 Cyclopenta(def)phenanthrenone Concentration Rank 21

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.85 | 2.50 ng/ul | 524917 | Phenanthrene-d10 | 16.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopenta(def)phenanthrenone | 204 | C15H8O | 005737-13-3 | 97 |
| 2 | [1,1'-Biphenyl]-2-ol, 5-chloro- | 204 | C12H9ClO | 000607-12-5 | 46 |
| 3 | [1,1'-Biphenyl]-2,2'-dicarbonitrile | 204 | C14H8N2 | 004341-02-0 | 43 |
| 4 | Acetamide, 2-(3,4-dihydro-1-isoq... | 332 | C17H14F2N2OS | 1000270-76-1 | 43 |
| 5 | 1,2,4,8-Tetramethylbicyclo[6.3.0... | 204 | C15H24 | 137235-51-9 | 41 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN122619\
Data File : BN009178.D
Acq On : 26 Dec 2019 18:28
Operator : JU
Sample : K6381-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** CB5R2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN122419MA.M
Quant Title : SVOA CALIBRATION

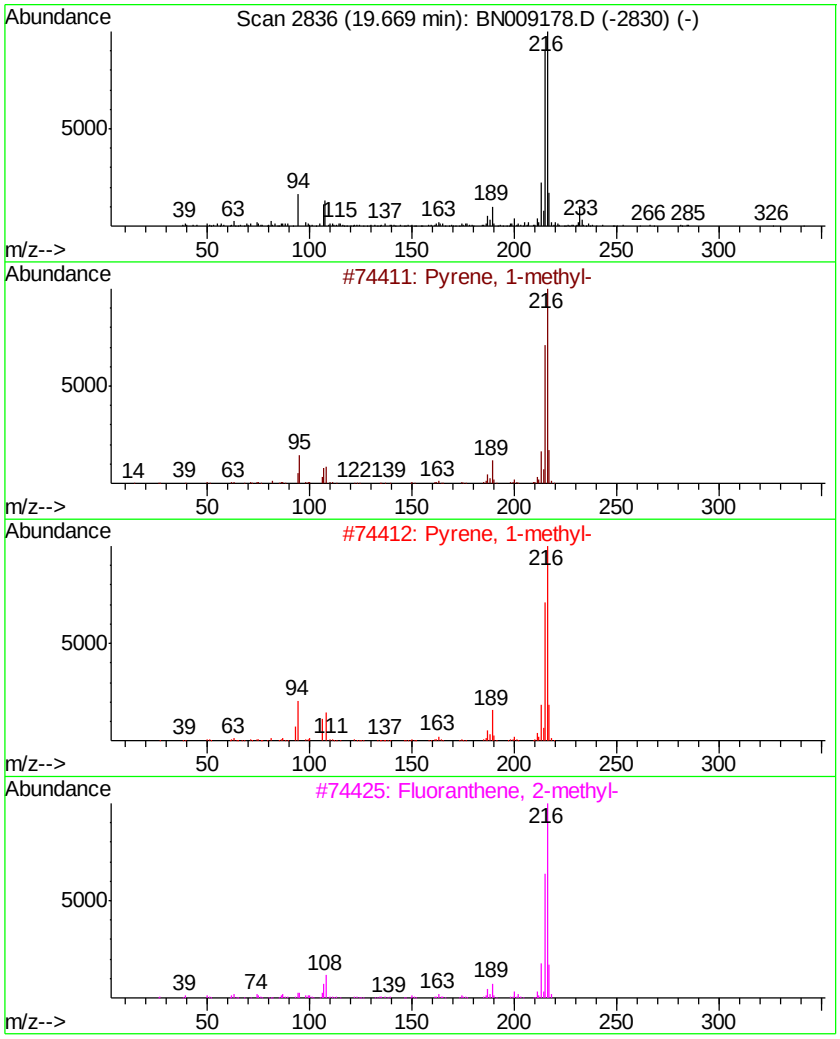
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

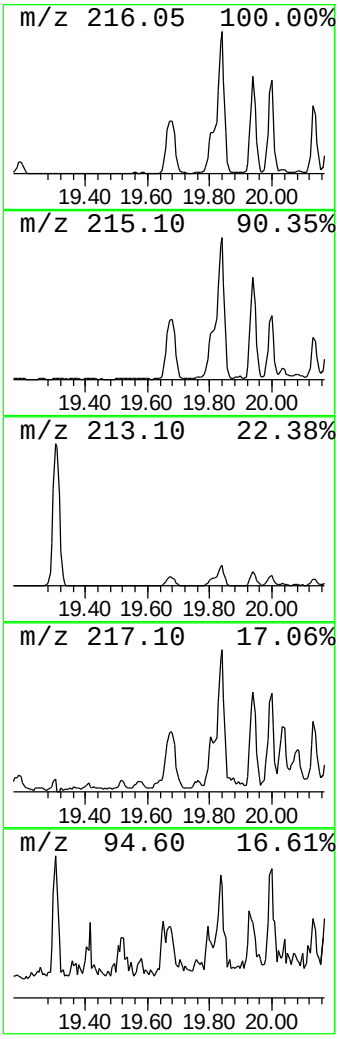
**********

Peak Number 16 Pyrene, 1-methyl- Concentration Rank 25

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.67 | 2.18 ng/ul | 950114 | Chrysene-d12 | 21.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 95 |
| 2 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 93 |
| 3 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 92 |
| 4 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 90 |
| 5 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 87 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN122619\
Data File : BN009178.D
Acq On : 26 Dec 2019 18:28
Operator : JU
Sample : K6381-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** CB5R2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN122419MA.M
Quant Title : SVOA CALIBRATION

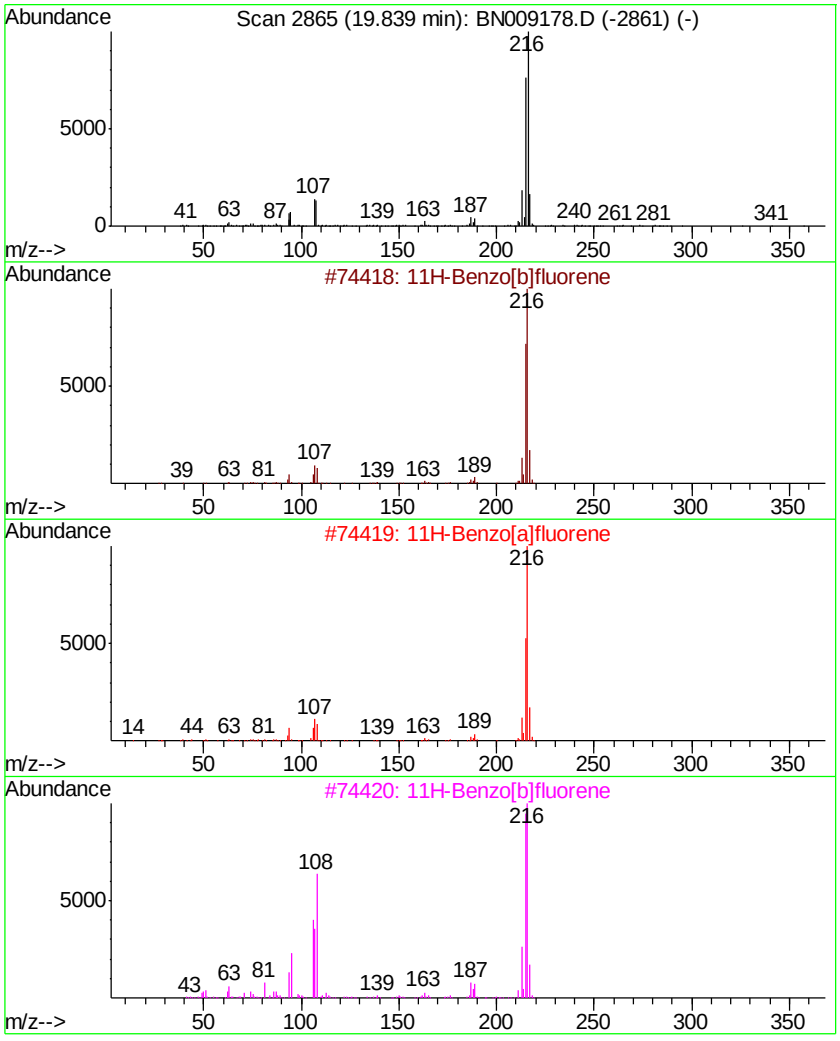
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

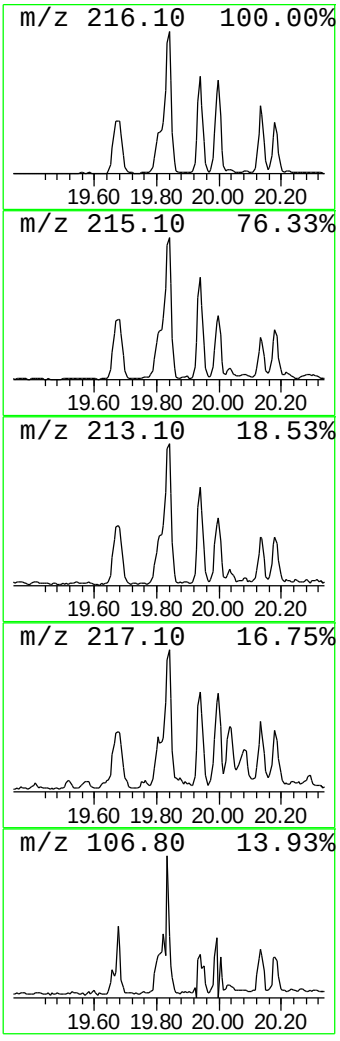
**********

Peak Number 17 11H-Benzo[b]fluorene Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.84 | 2.57 ng/ul | 1121350 | Chrysene-d12 | 21.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 97 |
| 2 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 95 |
| 3 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 87 |
| 4 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 83 |
| 5 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 83 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN122619\
Data File : BN009178.D
Acq On : 26 Dec 2019 18:28
Operator : JU
Sample : K6381-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** CB5R2

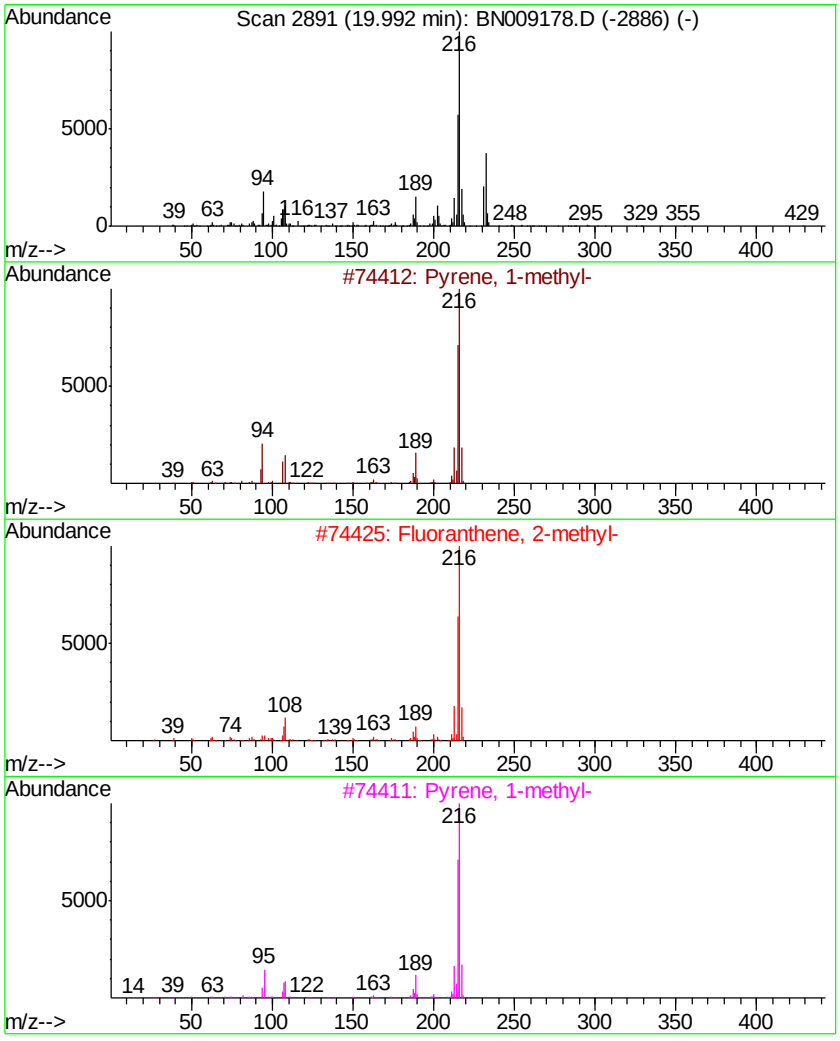
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN122419MA.M
Quant Title : SVOA CALIBRATION

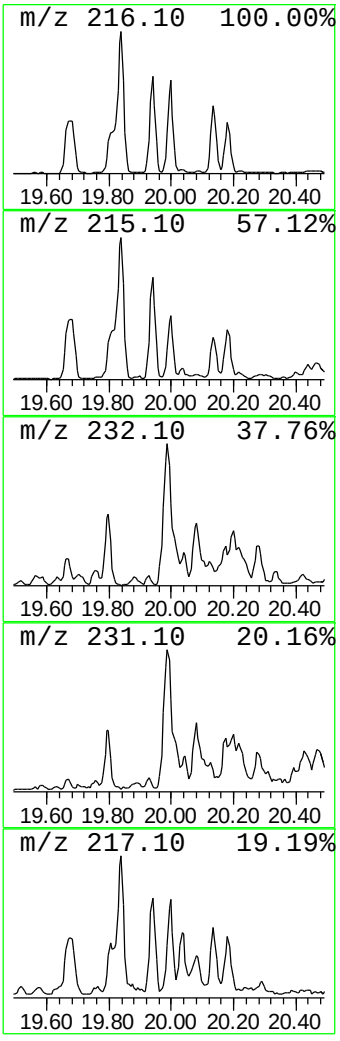
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 18 Fluoranthene, 2-methyl- Concentration Rank 27

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.99 | 2.03 ng/ul | 887446 | Chrysene-d12 | 21.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 97 |
| 2 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 96 |
| 3 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 94 |
| 4 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 93 |
| 5 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 89 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN122619\
Data File : BN009178.D
Acq On : 26 Dec 2019 18:28
Operator : JU
Sample : K6381-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** CB5R2

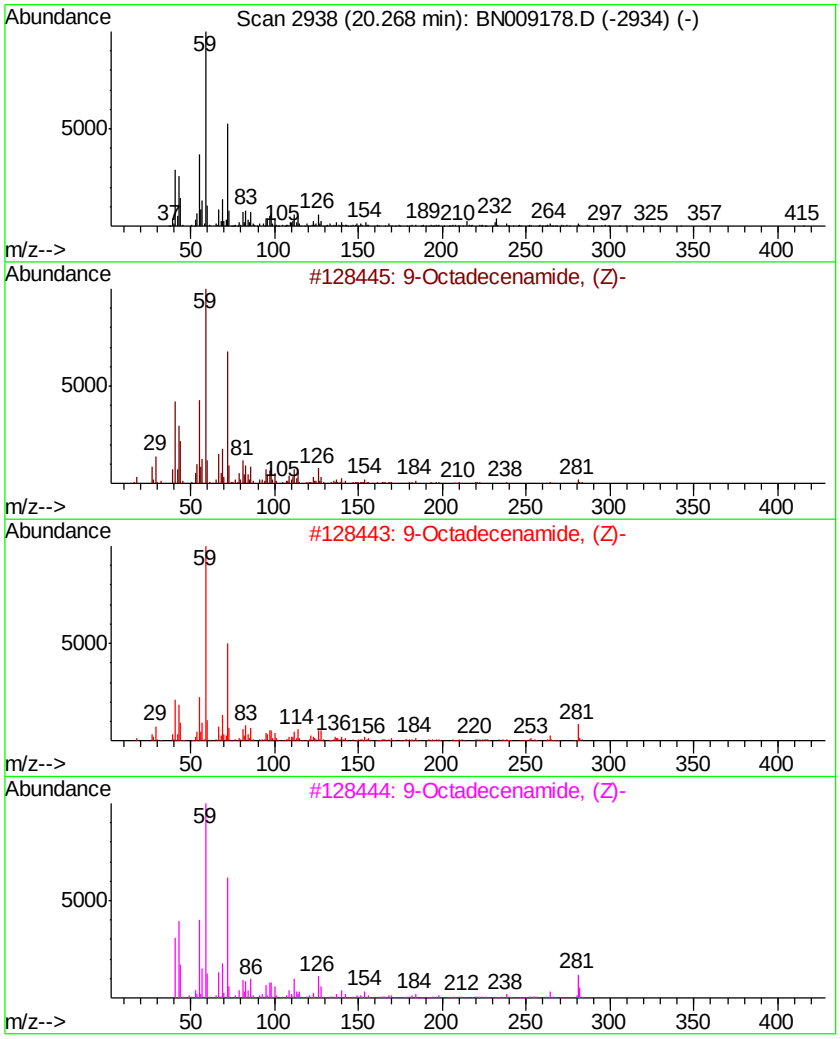
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN122419MA.M
Quant Title : SVOA CALIBRATION

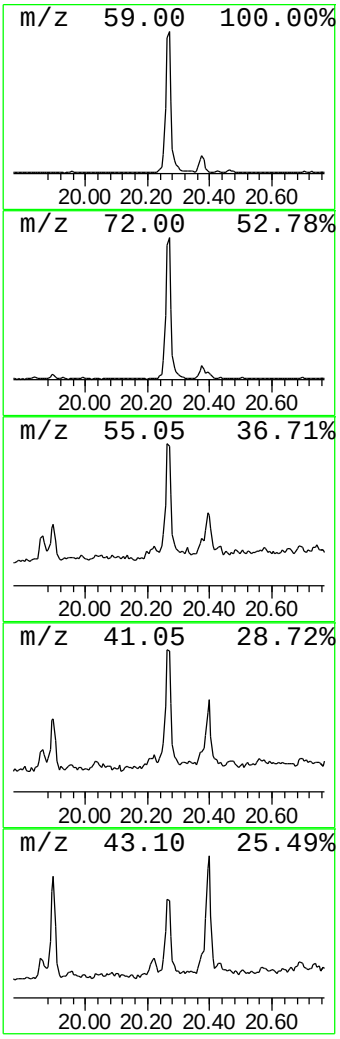
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 19 9-Octadecenamide, (Z)- Concentration Rank 22

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.27 | 2.42 ng/ul | 1054390 | Chrysene-d12 | 21.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9-Octadecenamide, (Z)- | 281 | C18H35NO | 000301-02-0 | 93 |
| 2 | 9-Octadecenamide, (Z)- | 281 | C18H35NO | 000301-02-0 | 93 |
| 3 | 9-Octadecenamide, (Z)- | 281 | C18H35NO | 000301-02-0 | 93 |
| 4 | 7-Nonenamide | 155 | C9H17NO | 090949-53-4 | 72 |
| 5 | Benzeneethanamine, 2-fluoro-.bet... | 229 | C11H16FNO3 | 061338-98-5 | 64 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN122619\
Data File : BN009178.D
Acq On : 26 Dec 2019 18:28
Operator : JU
Sample : K6381-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** CB5R2

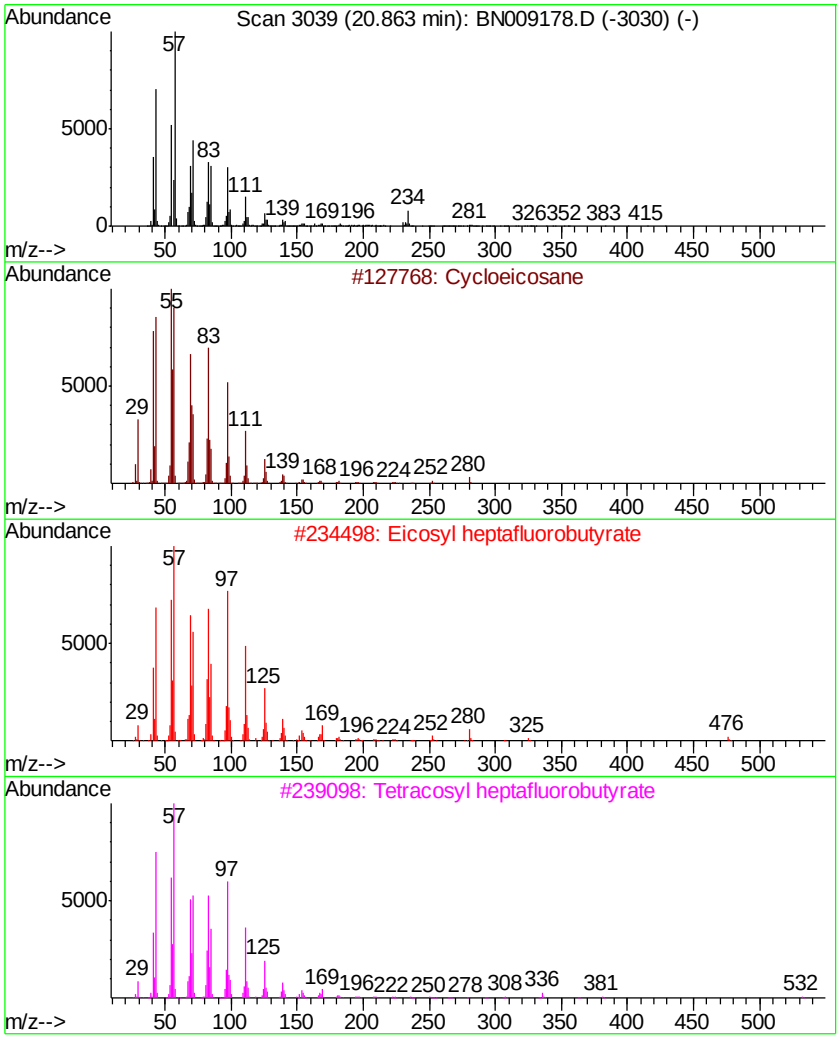
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN122419MA.M
Quant Title : SVOA CALIBRATION

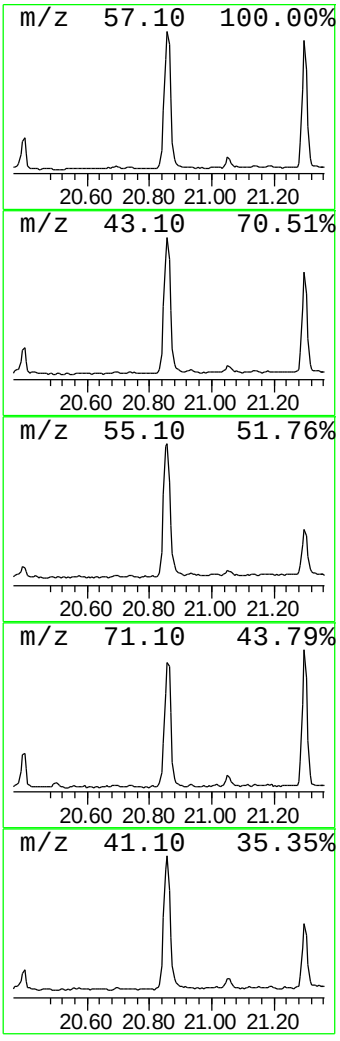
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 20 (DEL) Alkane: Cyclic20.86 Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.86 | 12.03 ng/ul | 5251760 | Chrysene-d12 | 21.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cycloeicosane | 280 | C20H40 | 000296-56-0 | 95 |
| 2 | Eicosyl heptafluorobutyrate | 494 | C24H41F7O2 | 1000351-83-5 | 91 |
| 3 | Tetracosyl heptafluorobutyrate | 550 | C28H49F7O2 | 1000351-83-7 | 91 |
| 4 | Docosyl pentafluoropropionate | 472 | C25H45F5O2 | 1000351-80-9 | 91 |
| 5 | Tricosyl trifluoroacetate | 436 | C25H47F3O2 | 1000351-75-1 | 91 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN122619\
Data File : BN009178.D
Acq On : 26 Dec 2019 18:28
Operator : JU
Sample : K6381-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** CB5R2

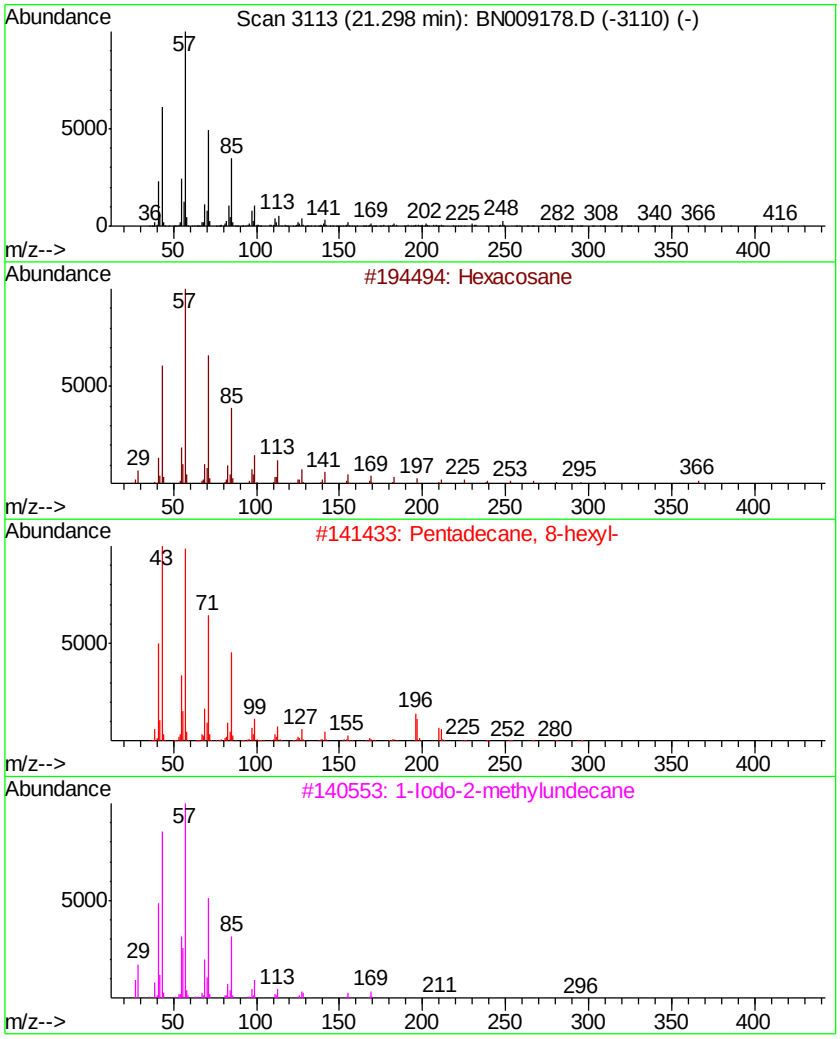
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN122419MA.M
Quant Title : SVOA CALIBRATION

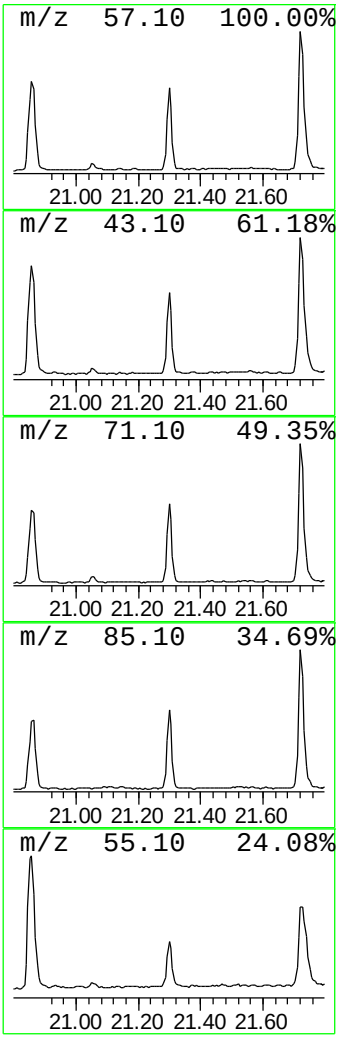
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 21 (DEL) Alkane: Straight-Chai... Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.30 | 4.02 ng/ul | 1753270 | Chrysene-d12 | 21.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexacosane | 366 | C26H54 | 000630-01-3 | 95 |
| 2 | Pentadecane, 8-hexyl- | 296 | C21H44 | 013475-75-7 | 91 |
| 3 | 1-Iodo-2-methylundecane | 296 | C12H25I | 073105-67-6 | 91 |
| 4 | Eicosane, 10-methyl- | 296 | C21H44 | 054833-23-7 | 90 |
| 5 | Eicosane, 3-methyl- | 296 | C21H44 | 006418-46-8 | 90 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN122619\
Data File : BN009178.D
Acq On : 26 Dec 2019 18:28
Operator : JU
Sample : K6381-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** CB5R2

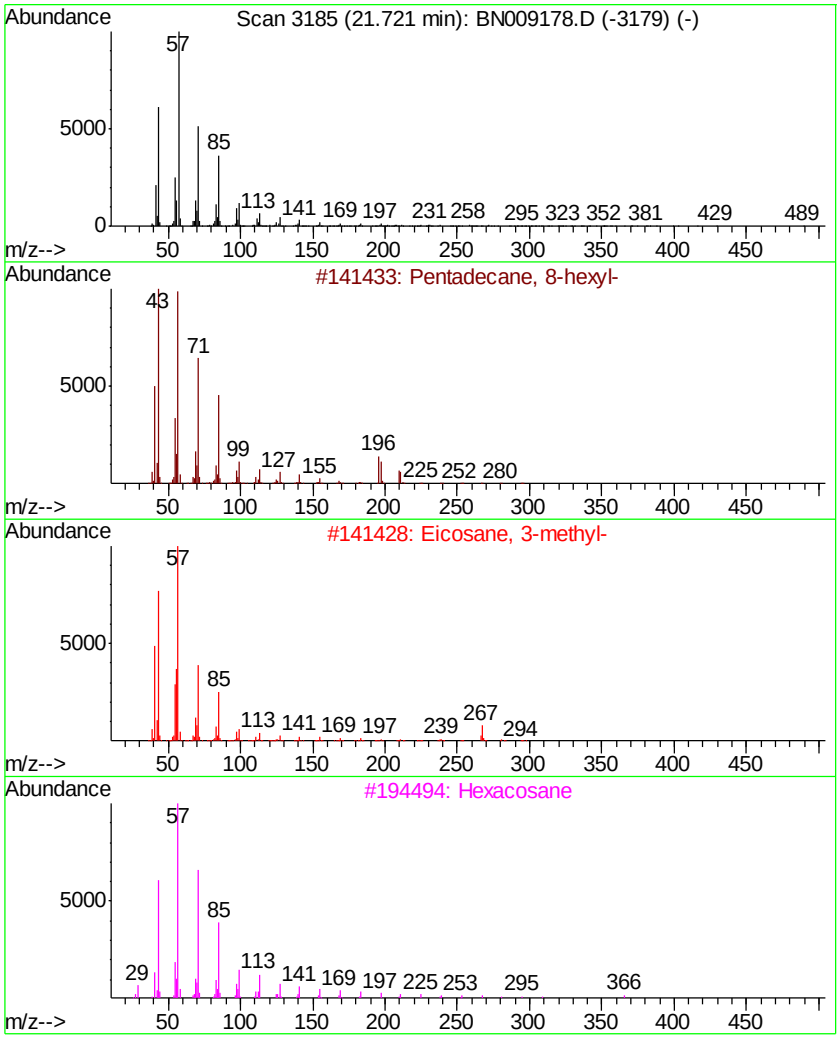
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN122419MA.M
Quant Title : SVOA CALIBRATION

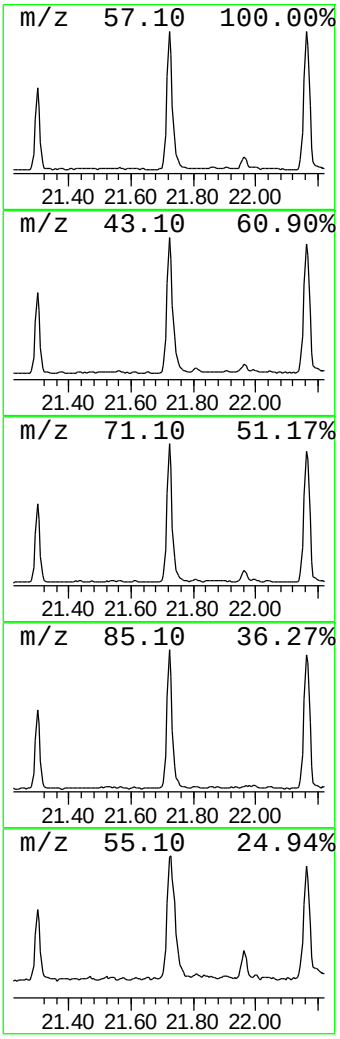
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 22 (DEL) Alkane: Straight-Chai... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.72 | 9.46 ng/ul | 4130690 | Chrysene-d12 | 21.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentadecane, 8-hexyl- | 296 | C21H44 | 013475-75-7 | 93 |
| 2 | Eicosane, 3-methyl- | 296 | C21H44 | 006418-46-8 | 91 |
| 3 | Hexacosane | 366 | C26H54 | 000630-01-3 | 91 |
| 4 | Hexatriacontane | 507 | C36H74 | 000630-06-8 | 91 |
| 5 | Hentriacontane | 437 | C31H64 | 000630-04-6 | 91 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN122619\
Data File : BN009178.D
Acq On : 26 Dec 2019 18:28
Operator : JU
Sample : K6381-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** CB5R2

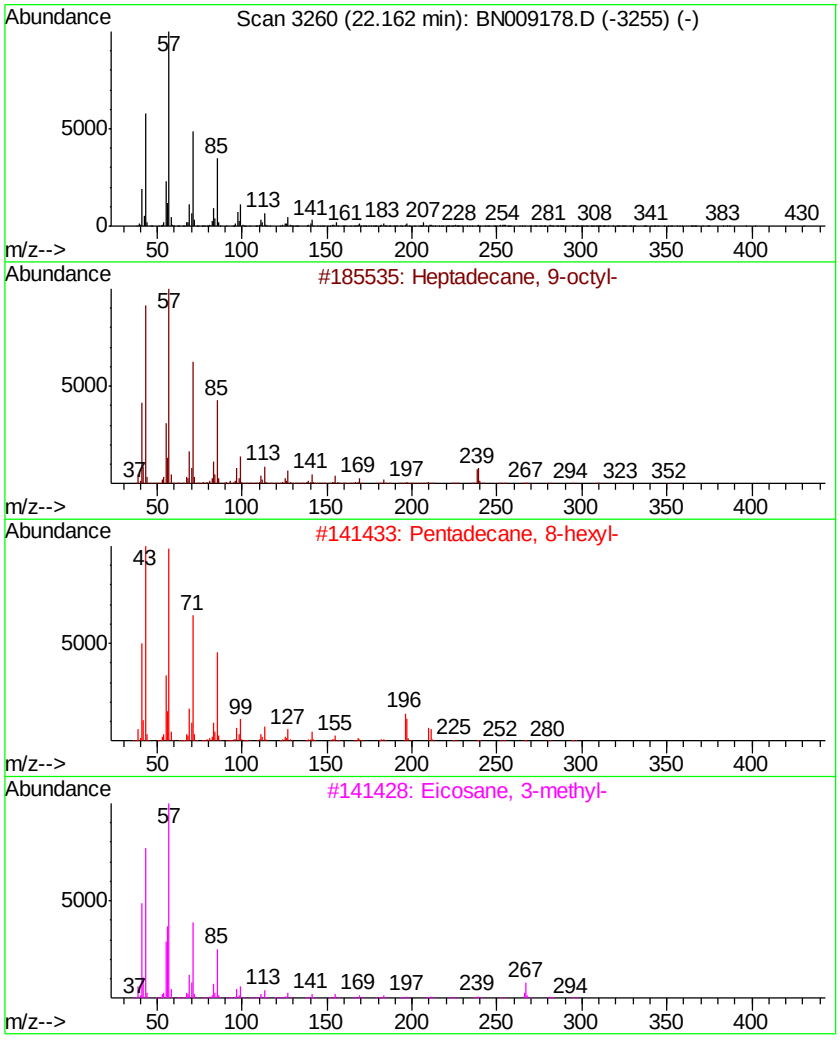
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN122419MA.M
Quant Title : SVOA CALIBRATION

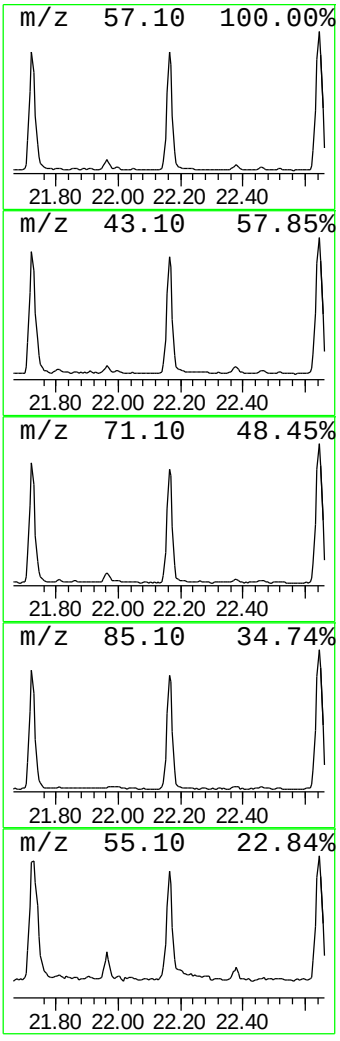
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 23 (DEL) Alkane: Straight-Chai... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 22.16 | 7.76 ng/ul | 3388350 | Chrysene-d12 | 21.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptadecane, 9-octyl- | 352 | C25H52 | 007225-64-1 | 96 |
| 2 | Pentadecane, 8-hexyl- | 296 | C21H44 | 013475-75-7 | 91 |
| 3 | Eicosane, 3-methyl- | 296 | C21H44 | 006418-46-8 | 91 |
| 4 | Eicosane, 10-methyl- | 296 | C21H44 | 054833-23-7 | 91 |
| 5 | Hentriacontane | 437 | C31H64 | 000630-04-6 | 91 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN122619\
Data File : BN009178.D
Acq On : 26 Dec 2019 18:28
Operator : JU
Sample : K6381-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** CB5R2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN122419MA.M
Quant Title : SVOA CALIBRATION

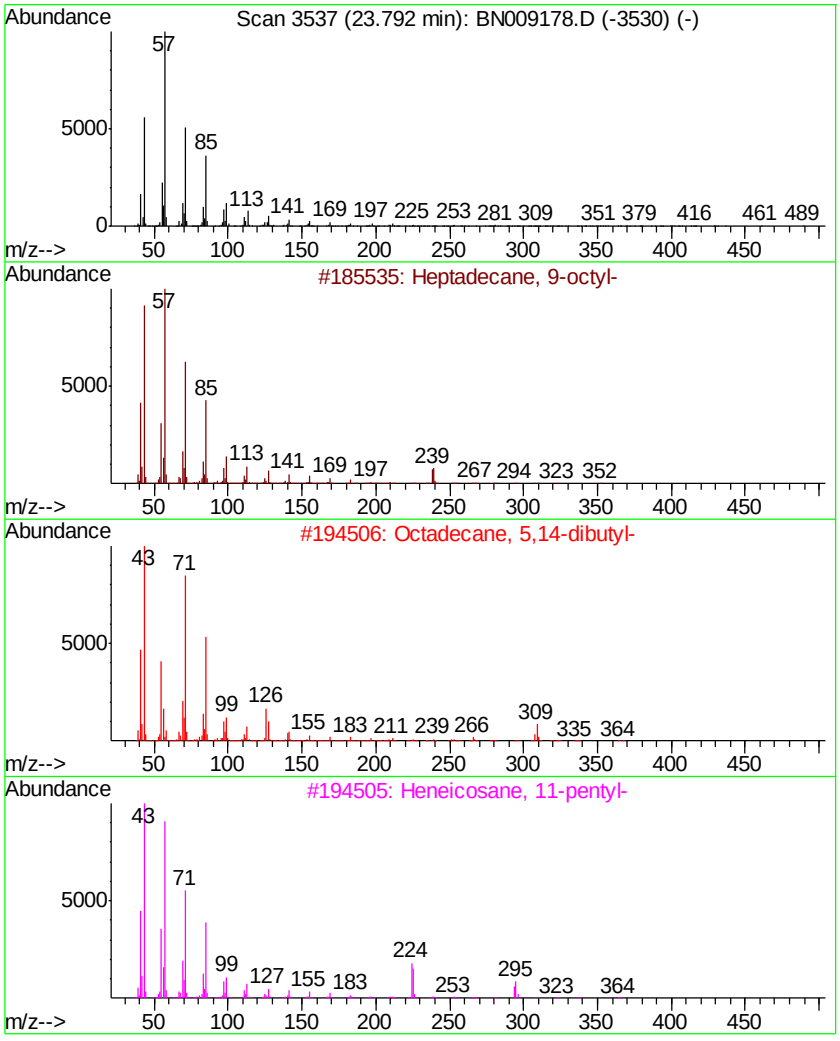
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

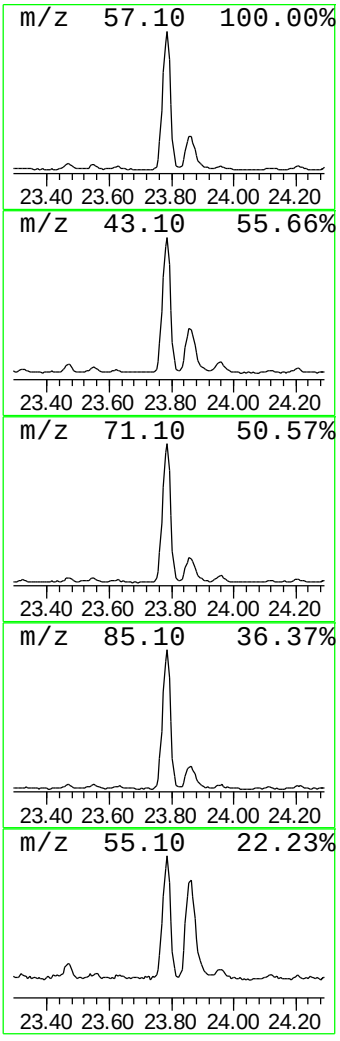
**********

Peak Number 24 (DEL) Alkane: Straight-Chai... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 23.79 | 24.06 ng/ul | 3915520 | Perylene-d12 | 23.25 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptadecane, 9-octyl- | 352 | C25H52 | 007225-64-1 | 94 |
| 2 | Octadecane, 5,14-dibutyl- | 366 | C26H54 | 055282-13-8 | 94 |
| 3 | Heneicosane, 11-pentyl- | 366 | C26H54 | 014739-72-1 | 94 |
| 4 | Heptadecane, 9-hexyl- | 324 | C23H48 | 055124-79-3 | 94 |
| 5 | Nonadecane, 9-methyl- | 282 | C20H42 | 013287-24-6 | 93 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN122619\
Data File : BN009178.D
Acq On : 26 Dec 2019 18:28
Operator : JU
Sample : K6381-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** CB5R2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN122419MA.M
Quant Title : SVOA CALIBRATION

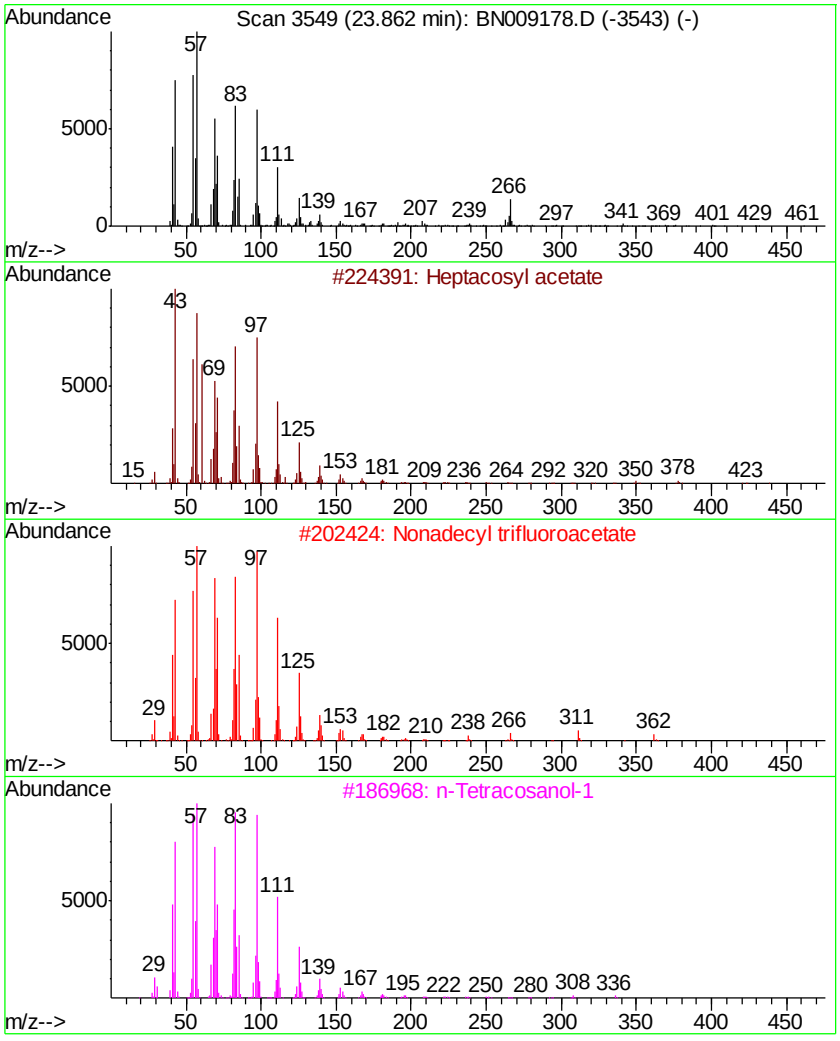
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

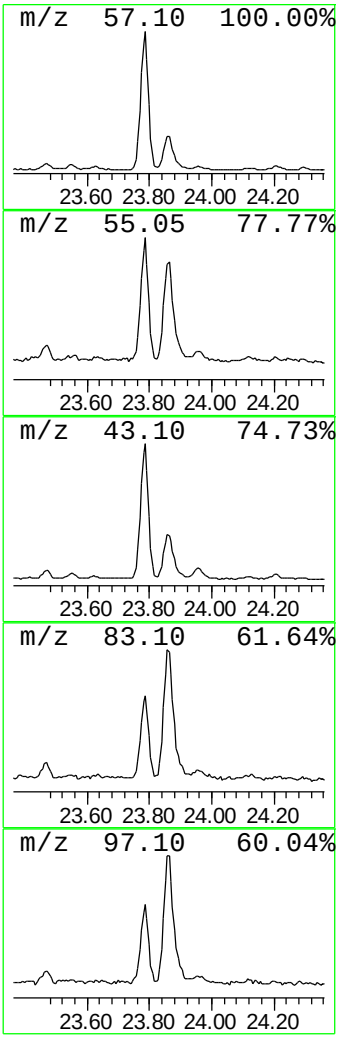
**********

Peak Number 25 Heptacosyl acetate Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 23.86 | 14.17 ng/ul | 2306370 | Perylene-d12 | 23.25 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptacosyl acetate | 438 | C29H58O2 | 1000351-78-2 | 90 |
| 2 | Nonadecyl trifluoroacetate | 380 | C21H39F3O2 | 1000351-76-3 | 90 |
| 3 | n-Tetracosanol-1 | 354 | C24H50O | 000506-51-4 | 90 |
| 4 | Heneicosyl heptafluorobutyrate | 508 | C25H43F7O2 | 1000351-83-8 | 90 |
| 5 | 1-Heptacosanol | 396 | C27H56O | 002004-39-9 | 90 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN122619\
Data File : BN009178.D
Acq On : 26 Dec 2019 18:28
Operator : JU
Sample : K6381-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** CB5R2

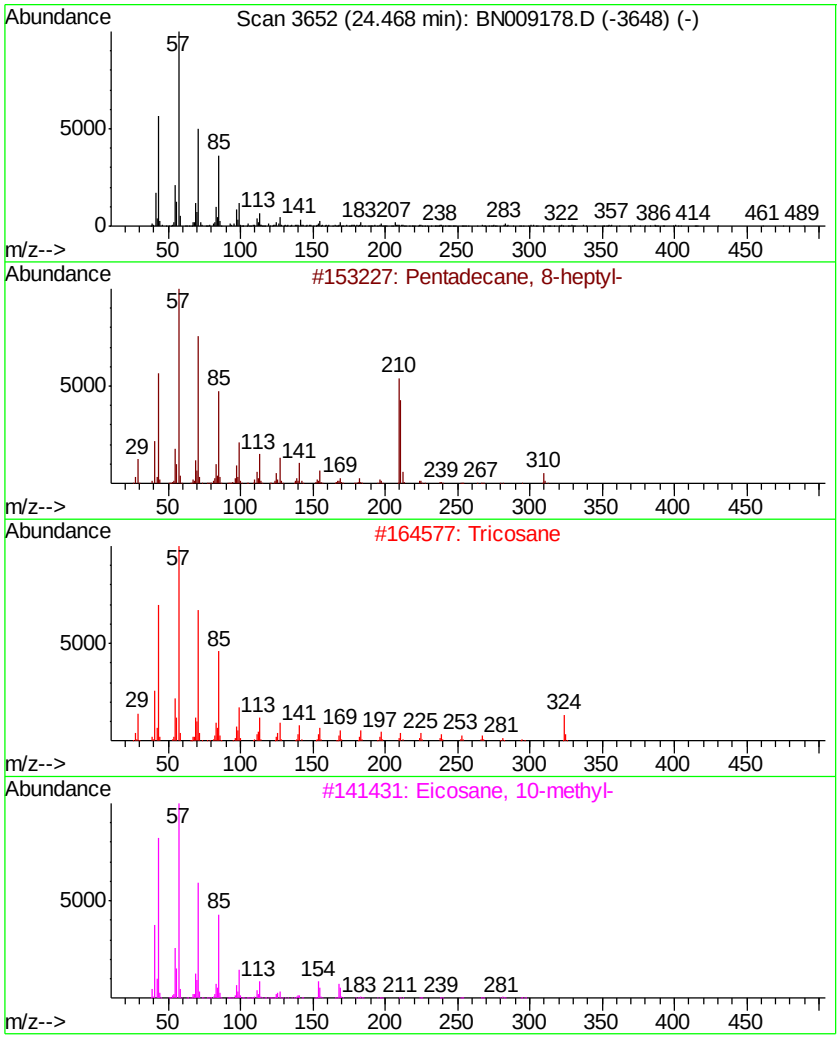
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN122419MA.M
Quant Title : SVOA CALIBRATION

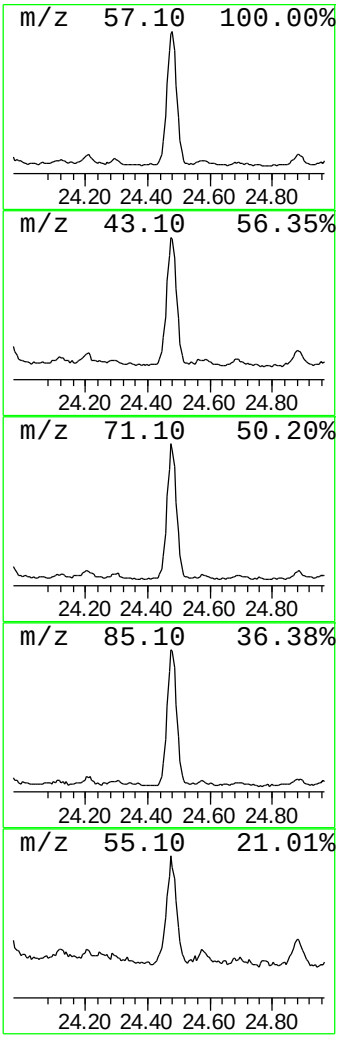
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 26 (DEL) Alkane: Straight-Chai... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 24.47 | 12.51 ng/ul | 2035870 | Perylene-d12 | 23.25 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentadecane, 8-heptyl- | 310 | C22H46 | 071005-15-7 | 93 |
| 2 | Tricosane | 324 | C23H48 | 000638-67-5 | 93 |
| 3 | Eicosane, 10-methyl- | 296 | C21H44 | 054833-23-7 | 91 |
| 4 | Nonadecane, 9-methyl- | 282 | C20H42 | 013287-24-6 | 90 |
| 5 | Eicosane, 3-methyl- | 296 | C21H44 | 006418-46-8 | 90 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN122619\
Data File : BN009178.D
Acq On : 26 Dec 2019 18:28
Operator : JU
Sample : K6381-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** CB5R2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN122419MA.M
Quant Title : SVOA CALIBRATION

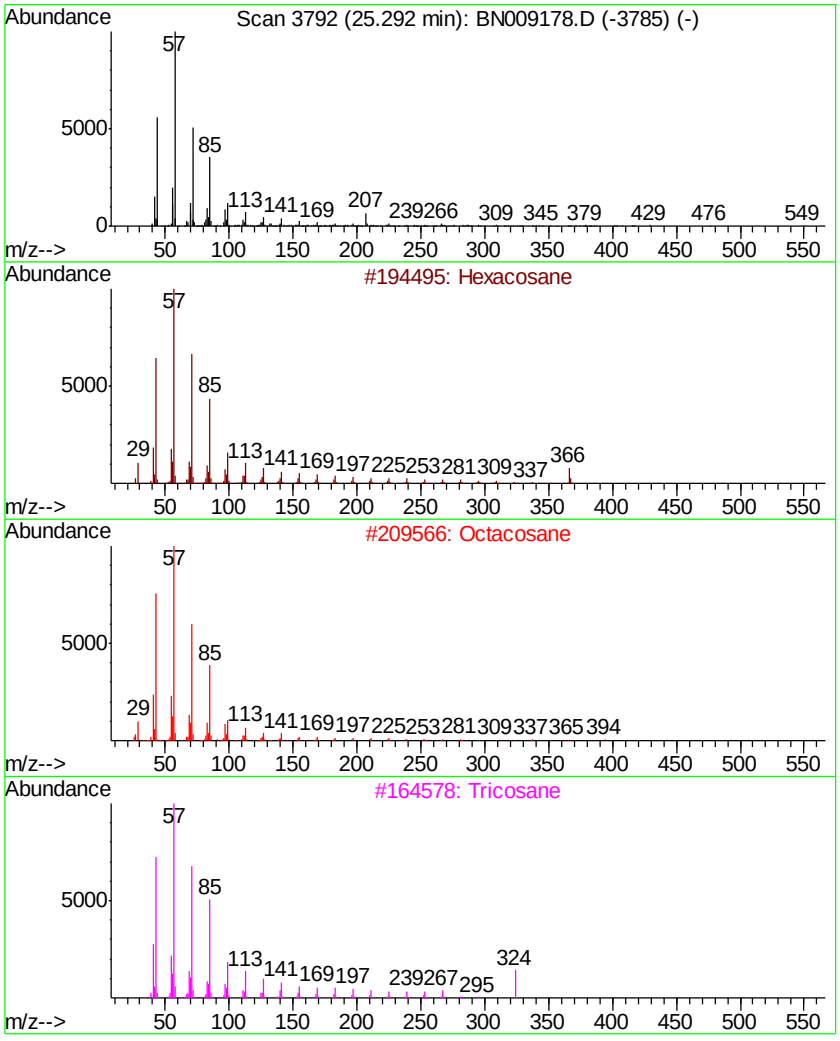
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

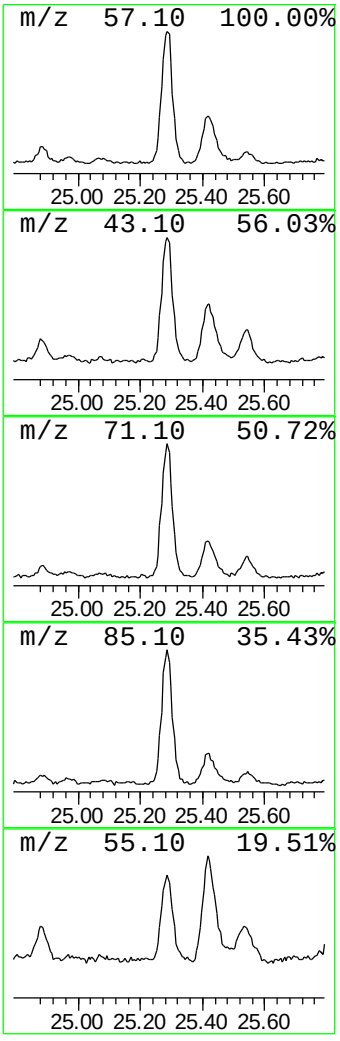
**********

Peak Number 27 (DEL) Alkane: Straight-Chai... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 25.29 | 8.92 ng/ul | 1452270 | Perylene-d12 | 23.25 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexacosane | 366 | C26H54 | 000630-01-3 | 94 |
| 2 | Octacosane | 394 | C28H58 | 000630-02-4 | 90 |
| 3 | Tricosane | 324 | C23H48 | 000638-67-5 | 90 |
| 4 | Tetracosane | 338 | C24H50 | 000646-31-1 | 87 |
| 5 | Heneicosane | 296 | C21H44 | 000629-94-7 | 87 |



# Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122619\
Data File : BN009178.D
Acq On : 26 Dec 2019 18:28
Operator : JU
Sample : K6381-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** CB5R2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN122419MA.M
Quant Title : SVOA CALIBRATION

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

| | | | | | Internal Standard | | |
|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Toluene | 3.83 | 7.0 | ng/ul | 633169 | 1 | 7.52 | 1804820 | 20.0 |
| 1-Butene, 3,3-dim... | 4.04 | 3.5 | ng/ul | 311364 | 1 | 7.52 | 1804820 | 20.0 |
| 1-Butene, 2,3-dim... | 4.43 | 2.2 | ng/ul | 198102 | 1 | 7.52 | 1804820 | 20.0 |
| unknown-01 | 8.83 | 5.3 | ng/ul | 482061 | 1 | 7.52 | 1804820 | 20.0 |
| Dibenzothiophene | 16.72 | 2.1 | ng/ul | 449244 | 4 | 16.90 | 4198730 | 20.0 |
| Phenanthrene, 2-m... | 17.78 | 4.1 | ng/ul | 864340 | 4 | 16.90 | 4198730 | 20.0 |
| Phenanthrene, 1-m... | 17.83 | 7.2 | ng/ul | 1515130 | 4 | 16.90 | 4198730 | 20.0 |
| 1H-Cyclopropa[l]p... | 17.90 | 2.5 | ng/ul | 526707 | 4 | 16.90 | 4198730 | 20.0 |
| 4H-Cyclopenta[def... | 17.97 | 6.9 | ng/ul | 1452910 | 4 | 16.90 | 4198730 | 20.0 |
| Phenanthrene, 4-m... | 18.01 | 2.6 | ng/ul | 542561 | 4 | 16.90 | 4198730 | 20.0 |
| Naphthalene, 2-ph... | 18.29 | 2.9 | ng/ul | 598711 | 4 | 16.90 | 4198730 | 20.0 |
| 9,10-Anthracenedione | 18.32 | 2.5 | ng/ul | 533677 | 4 | 16.90 | 4198730 | 20.0 |
| Phenanthrene, 2,5... | 18.71 | 2.8 | ng/ul | 594193 | 4 | 16.90 | 4198730 | 20.0 |
| unknown-02 | 18.77 | 2.3 | ng/ul | 492278 | 4 | 16.90 | 4198730 | 20.0 |
| Cyclopenta(def)ph... | 18.85 | 2.5 | ng/ul | 524917 | 4 | 16.90 | 4198730 | 20.0 |
| Pyrene, 1-methyl- | 19.67 | 2.2 | ng/ul | 950114 | 5 | 21.11 | 8729930 | 20.0 |
| 11H-Benzo[b]fluorene | 19.84 | 2.6 | ng/ul | 1121350 | 5 | 21.11 | 8729930 | 20.0 |
| Fluoranthene, 2-m... | 19.99 | 2.0 | ng/ul | 887446 | 5 | 21.11 | 8729930 | 20.0 |
| 9-Octadecenamide,... | 20.27 | 2.4 | ng/ul | 1054390 | 5 | 21.11 | 8729930 | 20.0 |
| (DEL) Alkane: Cyc... | 20.86 | 12.0 | ng/ul | 5251760 | 5 | 21.11 | 8729930 | 20.0 |
| (DEL) Alkane: Str... | 21.30 | 4.0 | ng/ul | 1753270 | 5 | 21.11 | 8729930 | 20.0 |
| (DEL) Alkane: Str... | 21.72 | 9.5 | ng/ul | 4130690 | 5 | 21.11 | 8729930 | 20.0 |
| (DEL) Alkane: Str... | 22.16 | 7.8 | ng/ul | 3388350 | 5 | 21.11 | 8729930 | 20.0 |
| (DEL) Alkane: Str... | 23.79 | 24.1 | ng/ul | 3915520 | 6 | 23.25 | 3254460 | 20.0 |
| Heptacosyl acetate | 23.86 | 14.2 | ng/ul | 2306370 | 6 | 23.25 | 3254460 | 20.0 |
| (DEL) Alkane: Str... | 24.47 | 12.5 | ng/ul | 2035870 | 6 | 23.25 | 3254460 | 20.0 |
| (DEL) Alkane: Str... | 25.29 | 8.9 | ng/ul | 1452270 | 6 | 23.25 | 3254460 | 20.0 |