LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011317\
Data File : BF092241.D
Acq On : 13 Jan 2017 11:24
Operator : UM/SJ
Sample : I1131-02
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SW-001

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % 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:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 3.981 | 189 | 192 | 197 | rBV | 29571 | 61305 | 1.19% | 0.119% |
| 2 | 4.713 | 252 | 256 | 266 | rBV | 1528152 | 2504612 | 48.71% | 4.870% |
| 3 | 5.181 | 294 | 297 | 310 | rBV | 4460511 | 4929040 | 95.87% | 9.584% |
| 4 | 6.256 | 388 | 391 | 393 | rBV | 4375092 | 5141525 | 100.00% | 9.997% |
| 5 | 6.359 | 398 | 400 | 402 | rBV | 4907663 | 4500079 | 87.52% | 8.750% |
| 6 | 6.587 | 417 | 420 | 422 | rBV | 1054067 | 1091445 | 21.23% | 2.122% |
| 7 | 6.736 | 431 | 433 | 436 | rBV | 2711288 | 3329651 | 64.76% | 6.474% |
| 8 | 7.159 | 467 | 470 | 472 | rBV | 2212976 | 2225536 | 43.29% | 4.327% |
| 9 | 7.867 | 530 | 532 | 535 | rBV | 1097406 | 1279978 | 24.89% | 2.489% |
| 10 | 8.953 | 624 | 627 | 629 | rBV | 4181937 | 4011820 | 78.03% | 7.801% |
| 11 | 9.353 | 660 | 662 | 664 | rBV | 760488 | 641023 | 12.47% | 1.246% |
| 12 | 9.616 | 683 | 685 | 687 | rBV | 1311330 | 1351085 | 26.28% | 2.627% |
| 13 | 10.039 | 718 | 722 | 723 | rBV | 65851 | 68227 | 1.33% | 0.133% |
| 14 | 10.073 | 723 | 725 | 726 | rVB | 87048 | 90293 | 1.76% | 0.176% |
| 15 | 10.165 | 731 | 733 | 737 | rVB | 51733 | 63323 | 1.23% | 0.123% |
| 16 | 10.291 | 741 | 744 | 746 | rBV | 36650 | 51615 | 1.00% | 0.100% |
| 17 | 10.405 | 752 | 754 | 757 | rBV2 | 1955020 | 2552175 | 49.64% | 4.962% |
| 18 | 10.542 | 764 | 766 | 770 | rBV | 139556 | 169167 | 3.29% | 0.329% |
| 19 | 10.988 | 803 | 805 | 807 | rBV | 156379 | 169126 | 3.29% | 0.329% |
| 20 | 11.091 | 812 | 814 | 819 | rVV2 | 907521 | 1972317 | 38.36% | 3.835% |
| 21 | 11.171 | 819 | 821 | 823 | rVB | 220409 | 207020 | 4.03% | 0.403% |
| 22 | 11.342 | 833 | 836 | 840 | rBV4 | 71311 | 195277 | 3.80% | 0.380% |
| 23 | 11.411 | 840 | 842 | 847 | rVB | 154672 | 166855 | 3.25% | 0.324% |
| 24 | 11.594 | 852 | 858 | 860 | rBV | 84694 | 157404 | 3.06% | 0.306% |
| 25 | 11.628 | 860 | 861 | 862 | rVV | 120645 | 102619 | 2.00% | 0.200% |
| 26 | 11.651 | 862 | 863 | 866 | rVV2 | 314787 | 344967 | 6.71% | 0.671% |
| 27 | 11.708 | 866 | 868 | 873 | rVB2 | 150510 | 226295 | 4.40% | 0.440% |
| 28 | 11.822 | 876 | 878 | 881 | rVB | 58810 | 89631 | 1.74% | 0.174% |
| 29 | 11.891 | 882 | 884 | 886 | rBV | 63970 | 61391 | 1.19% | 0.119% |
| 30 | 12.142 | 904 | 906 | 908 | rBV | 51490 | 69637 | 1.35% | 0.135% |
| 31 | 12.199 | 908 | 911 | 913 | rVV2 | 39964 | 96173 | 1.87% | 0.187% |
| 32 | 12.234 | 913 | 914 | 918 | rVB | 70488 | 67326 | 1.31% | 0.131% |
| 33 | 12.302 | 918 | 920 | 922 | rBV | 1242353 | 1089880 | 21.20% | 2.119% |
| 34 | 12.394 | 927 | 928 | 930 | rVB | 42141 | 52767 | 1.03% | 0.103% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011317\
Data File : BF092241.D
Acq On : 13 Jan 2017 11:24
Operator : UM/SJ
Sample : I1131-02
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SW-001

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % 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:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 12.451 | 930 | 933 | 935 | rBV2 | 62929 | 139766 | 2.72% | 0.272% |
| 36 | 12.531 | 937 | 940 | 942 | rBV | 884933 | 1048796 | 20.40% | 2.039% |
| 37 | 12.576 | 942 | 944 | 949 | rVB2 | 57309 | 88077 | 1.71% | 0.171% |
| 38 | 12.679 | 951 | 953 | 956 | rVB | 2702060 | 2960396 | 57.58% | 5.756% |
| 39 | 12.759 | 956 | 960 | 964 | rVB3 | 48596 | 98813 | 1.92% | 0.192% |
| 40 | 12.862 | 964 | 969 | 971 | rVB | 98733 | 175003 | 3.40% | 0.340% |
| 41 | 12.931 | 971 | 975 | 976 | rBV | 85777 | 122824 | 2.39% | 0.239% |
| 42 | 12.965 | 976 | 978 | 980 | rBV | 86958 | 100986 | 1.96% | 0.196% |
| 43 | 13.079 | 987 | 988 | 993 | rBV2 | 29080 | 52282 | 1.02% | 0.102% |
| 44 | 13.171 | 993 | 996 | 998 | rVB3 | 51731 | 65891 | 1.28% | 0.128% |
| 45 | 13.274 | 1000 | 1005 | 1009 | rBV4 | 40828 | 98857 | 1.92% | 0.192% |
| 46 | 13.365 | 1012 | 1013 | 1017 | rVB | 54240 | 77446 | 1.51% | 0.151% |
| 47 | 13.479 | 1020 | 1023 | 1024 | rBV | 67790 | 101983 | 1.98% | 0.198% |
| 48 | 13.525 | 1026 | 1027 | 1030 | rVB2 | 57480 | 80068 | 1.56% | 0.156% |
| 49 | 13.605 | 1030 | 1034 | 1040 | rVB3 | 145735 | 352171 | 6.85% | 0.685% |
| 50 | 13.719 | 1041 | 1044 | 1049 | rBV | 1072557 | 1868543 | 36.34% | 3.633% |
| 51 | 13.822 | 1051 | 1053 | 1055 | rVB2 | 56669 | 73902 | 1.44% | 0.144% |
| 52 | 13.879 | 1055 | 1058 | 1059 | rBV | 30193 | 52521 | 1.02% | 0.102% |
| 53 | 13.914 | 1059 | 1061 | 1064 | rVB4 | 38521 | 71933 | 1.40% | 0.140% |
| 54 | 14.108 | 1076 | 1078 | 1080 | rVB | 52556 | 71049 | 1.38% | 0.138% |
| 55 | 14.234 | 1084 | 1089 | 1094 | rBV4 | 60081 | 197916 | 3.85% | 0.385% |
| 56 | 14.428 | 1103 | 1106 | 1110 | rBV4 | 33639 | 94897 | 1.85% | 0.185% |
| 57 | 14.508 | 1110 | 1113 | 1115 | rVV4 | 52887 | 101011 | 1.96% | 0.196% |
| 58 | 14.577 | 1117 | 1119 | 1123 | rVV2 | 54713 | 82240 | 1.60% | 0.160% |
| 59 | 14.634 | 1123 | 1124 | 1127 | rVV2 | 78463 | 89240 | 1.74% | 0.174% |
| 60 | 14.725 | 1129 | 1132 | 1136 | rBV | 377919 | 760495 | 14.79% | 1.479% |
| 61 | 14.805 | 1136 | 1139 | 1141 | rBV3 | 105535 | 168692 | 3.28% | 0.328% |
| 62 | 14.840 | 1141 | 1142 | 1145 | rVB2 | 39550 | 55664 | 1.08% | 0.108% |
| 63 | 14.977 | 1152 | 1154 | 1157 | rVB | 237961 | 263362 | 5.12% | 0.512% |
| 64 | 15.034 | 1157 | 1159 | 1161 | rBV | 268777 | 381018 | 7.41% | 0.741% |
| 65 | 15.080 | 1161 | 1163 | 1165 | rBV | 681780 | 903514 | 17.57% | 1.757% |
| 66 | 15.491 | 1193 | 1199 | 1201 | rBV2 | 80374 | 156341 | 3.04% | 0.304% |
| 67 | 15.560 | 1201 | 1205 | 1213 | rVB5 | 51054 | 169380 | 3.29% | 0.329% |
| 68 | 16.040 | 1243 | 1247 | 1252 | rVB7 | 22664 | 85521 | 1.66% | 0.166% |
| 69 | 16.154 | 1253 | 1257 | 1261 | rBV3 | 36517 | 101222 | 1.97% | 0.197% |
| 70 | 16.325 | 1269 | 1272 | 1275 | rVB | 150352 | 289755 | 5.64% | 0.563% |
| 71 | 16.394 | 1275 | 1278 | 1281 | rVB | 44032 | 79849 | 1.55% | 0.155% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011317\
Data File : BF092241.D
Acq On : 13 Jan 2017 11:24
Operator : UM/SJ
Sample : I1131-02
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SW-001

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % 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:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 16.474 | 1282 | 1285 | 1286 | rBV | 29212 | 57770 | 1.12% | 0.112% |
| 73 | 16.691 | 1300 | 1304 | 1311 | rBV | 108702 | 237087 | 4.61% | 0.461% |
| 74 | 16.817 | 1311 | 1315 | 1319 | rVB7 | 20301 | 56849 | 1.11% | 0.111% |
| 75 | 16.897 | 1319 | 1322 | 1326 | rBV | 27564 | 58729 | 1.14% | 0.114% |
| 76 | 17.640 | 1384 | 1387 | 1397 | rVB6 | 21807 | 85904 | 1.67% | 0.167% |
| 77 | 18.588 | 1463 | 1470 | 1478 | rVB2 | 30971 | 121830 | 2.37% | 0.237% |

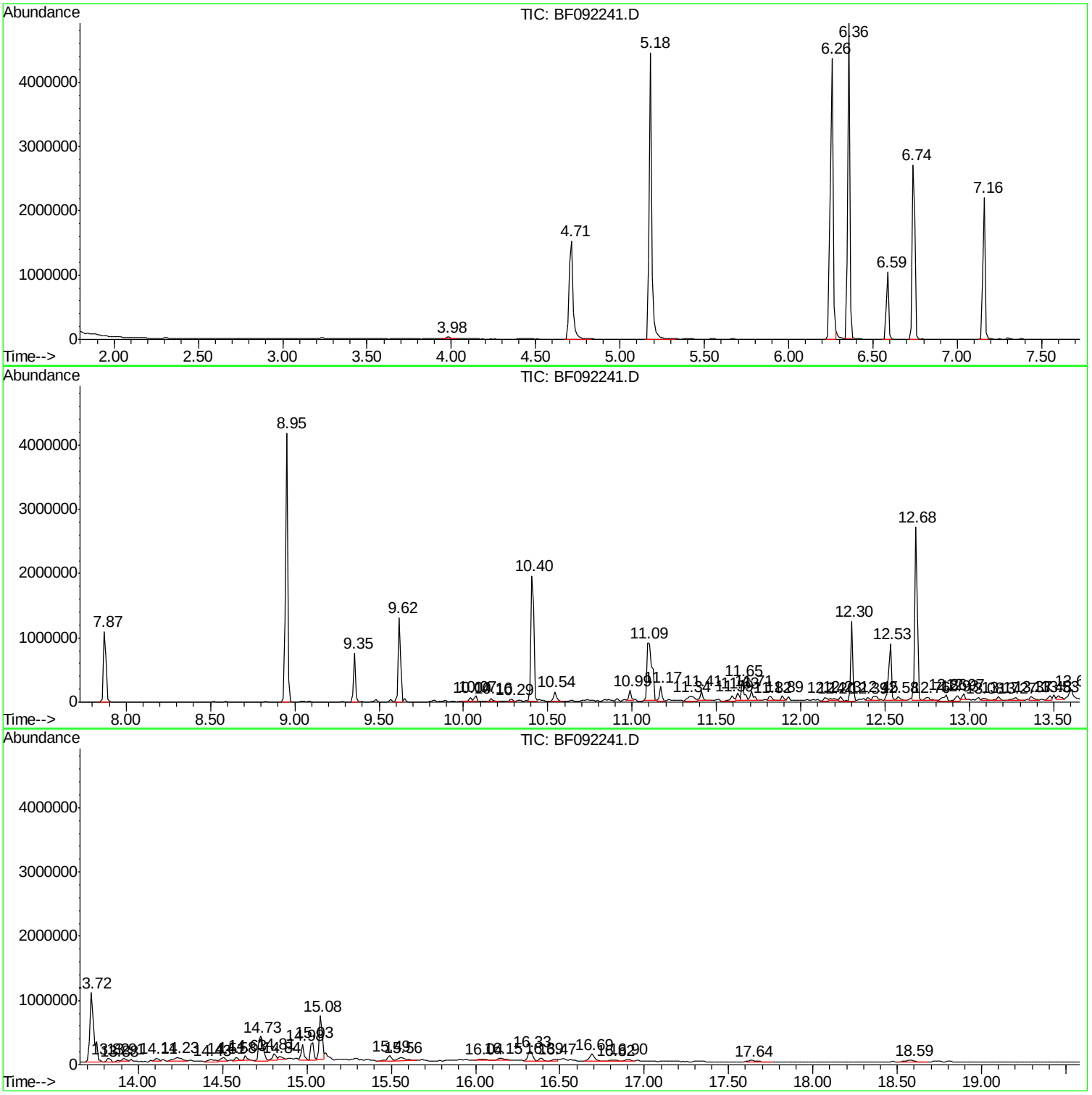
Sum of corrected areas: 51430177

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011317\
Data File : BF092241.D
Acq On : 13 Jan 2017 11:24
Operator : UM/SJ
Sample : I1131-02
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SW-001

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011317\
Data File : BF092241.D
Acq On : 13 Jan 2017 11:24
Operator : UM/SJ
Sample : I1131-02
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SW-001

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

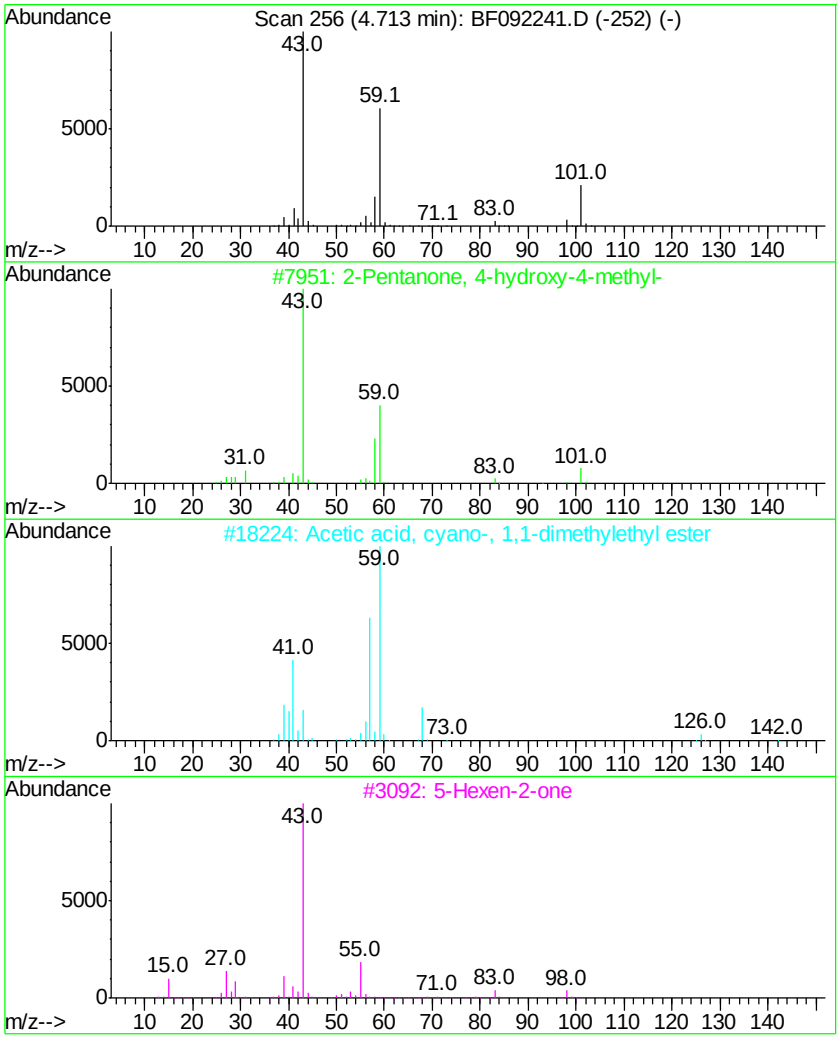
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

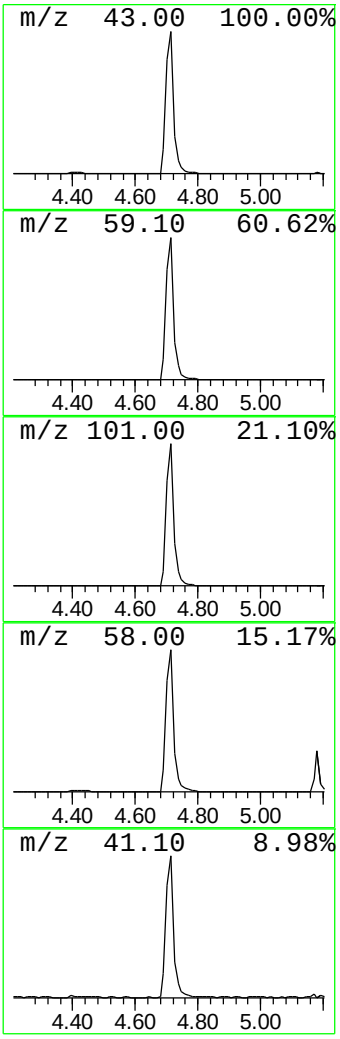
**********

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.71 | 45.90 ng | 2504610 | 1,4-Dichlorobenzene-d4 | 6.59 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 56 |
| 2 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 23 |
| 3 | 5-Hexen-2-one | 98 | C6H10O | 000109-49-9 | 9 |
| 4 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 9 |
| 5 | Butane, 1-ethoxy- | 102 | C6H14O | 000628-81-9 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011317\
Data File : BF092241.D
Acq On : 13 Jan 2017 11:24
Operator : UM/SJ
Sample : I1131-02
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SW-001

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

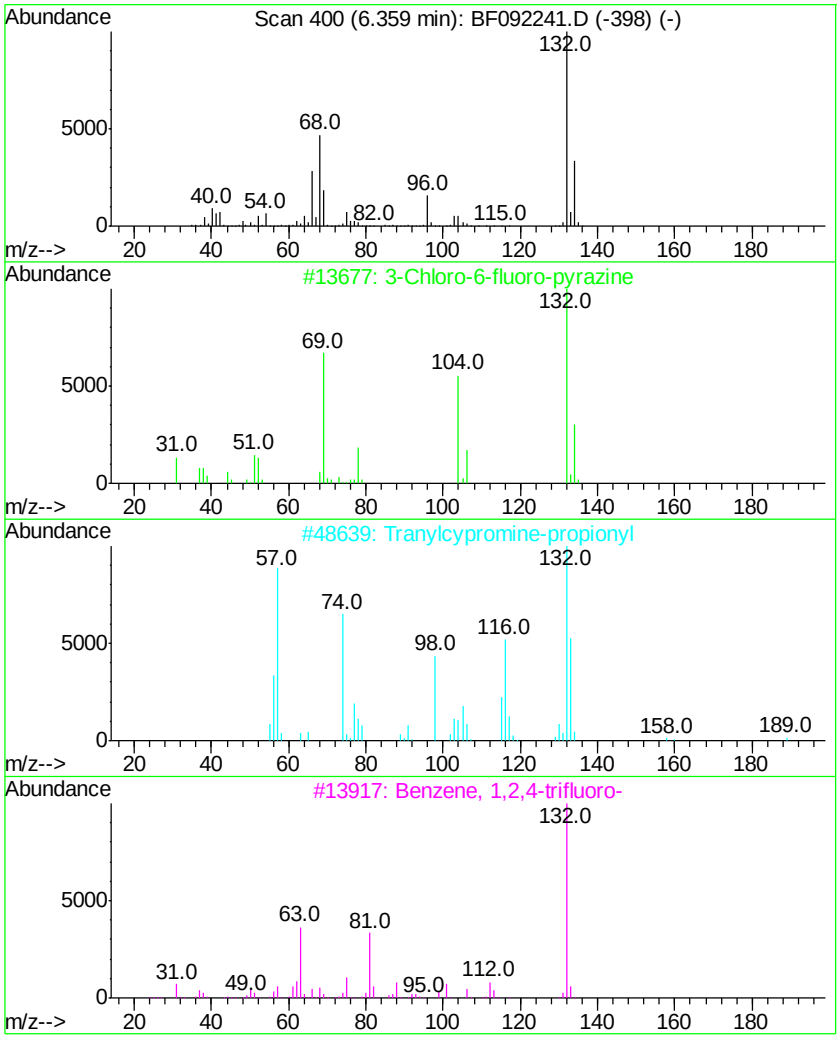
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

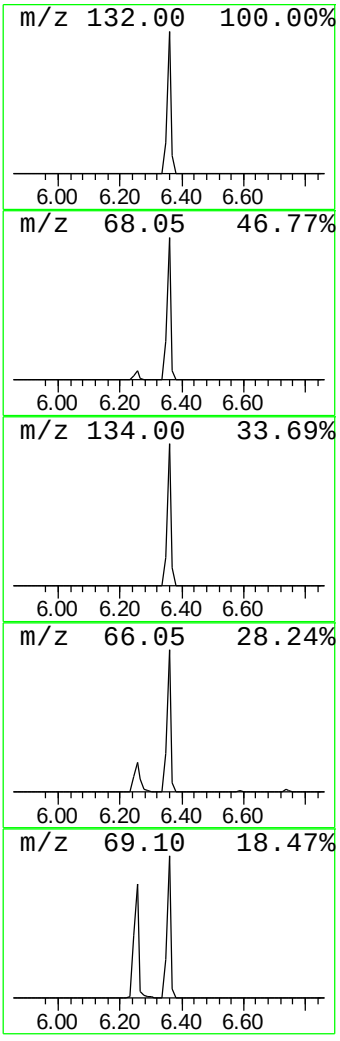
**********

Peak Number 2 unknown6.36 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.36 | 82.46 ng | 4500080 | 1,4-Dichlorobenzene-d4 | 6.59 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 27 |
| 2 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 10 |
| 3 | Benzene, 1,2,4-trifluoro- | 132 | C6H3F3 | 000367-23-7 | 9 |
| 4 | Benzene, 1,3,5-trifluoro- | 132 | C6H3F3 | 000372-38-3 | 9 |
| 5 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12 | 028749-81-7 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011317\
Data File : BF092241.D
Acq On : 13 Jan 2017 11:24
Operator : UM/SJ
Sample : I1131-02
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SW-001

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

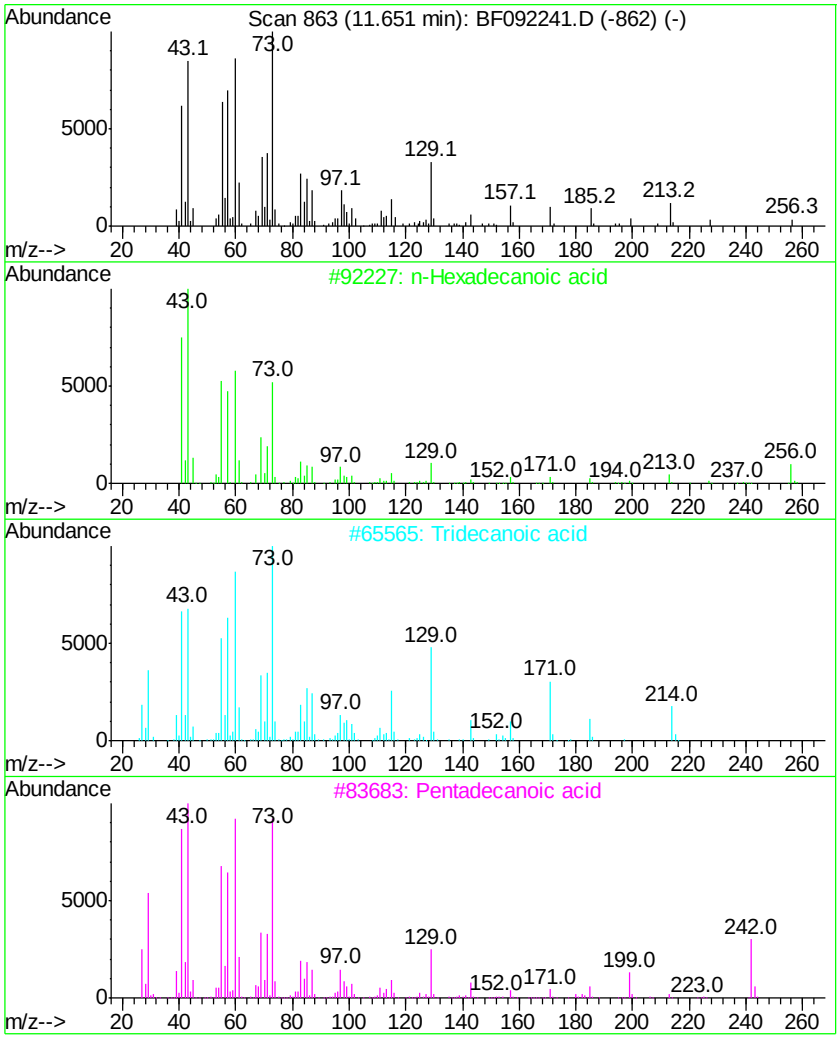
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

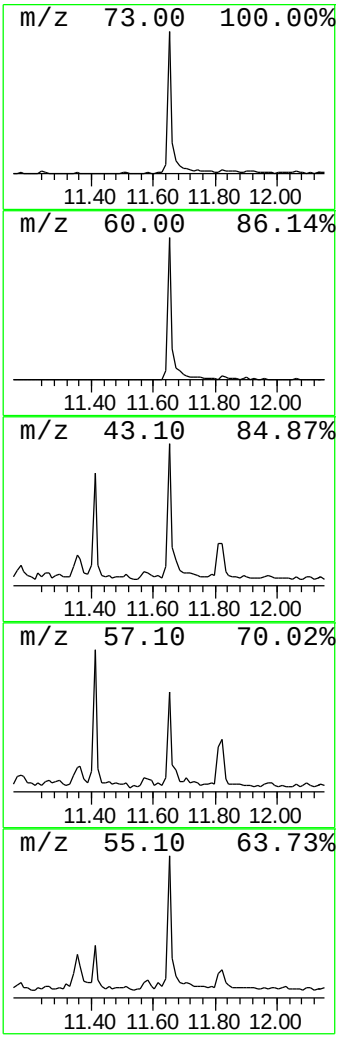
**********

Peak Number 4 n-Hexadecanoic acid Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.65 | 3.50 ng | 344967 | Phenanthrene-d10 | 11.10 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 96 |
| 2 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 96 |
| 3 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 72 |
| 4 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 72 |
| 5 | n-Decanoic acid | 172 | C10H20O2 | 000334-48-5 | 50 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011317\
Data File : BF092241.D
Acq On : 13 Jan 2017 11:24
Operator : UM/SJ
Sample : I1131-02
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SW-001

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

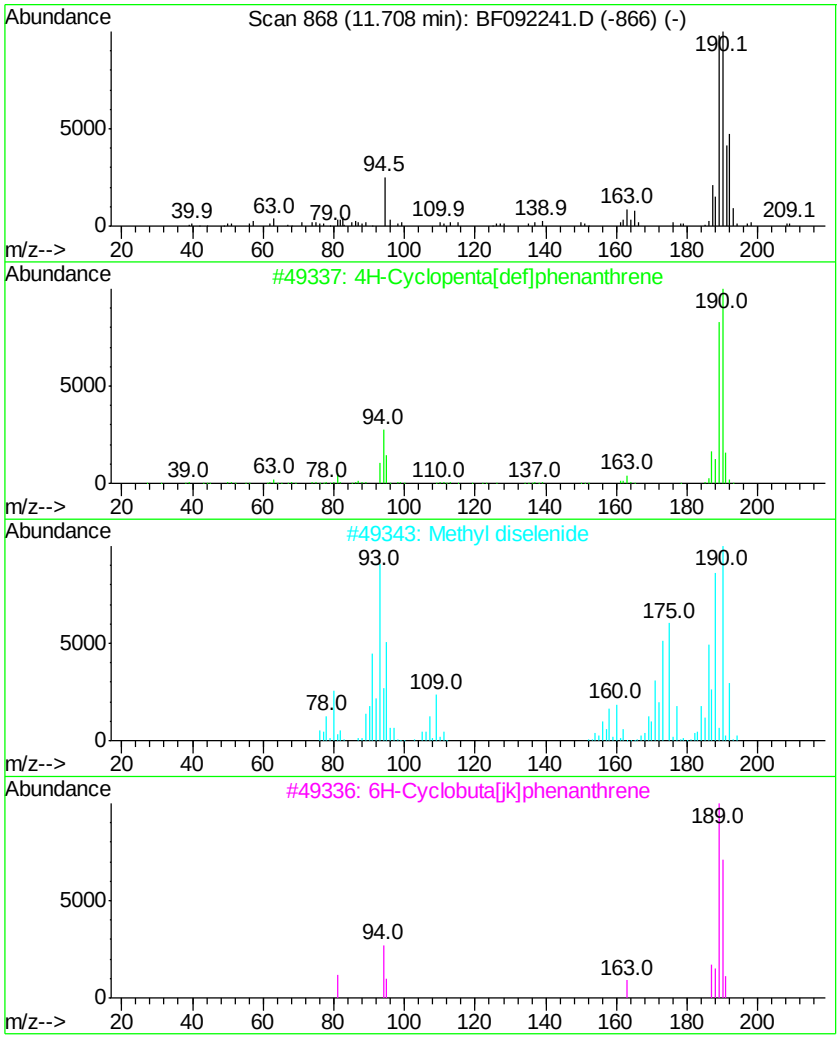
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

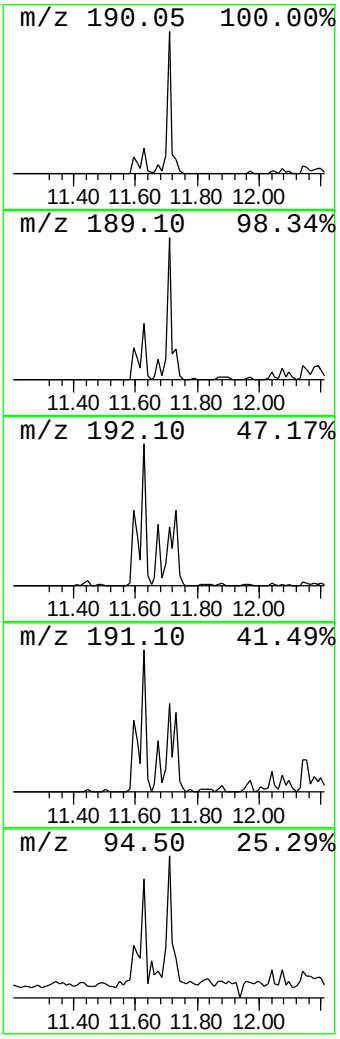
**********

Peak Number 5 4H-Cyclopenta[def]phenanthrene Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.71 | 2.29 ng | 226295 | Phenanthrene-d10 | 11.10 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 58 |
| 2 | Methyl diselenide | 190 | C2H6Se2 | 007101-31-7 | 45 |
| 3 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 40 |
| 4 | 2,2'-Bis(4,5-dimethylimidazole) | 190 | C10H14N4 | 069286-06-2 | 38 |
| 5 | Benzaldehyde, 3,5-dichloro-2-hyd... | 190 | C7H4Cl2O2 | 000090-60-8 | 33 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011317\
Data File : BF092241.D
Acq On : 13 Jan 2017 11:24
Operator : UM/SJ
Sample : I1131-02
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SW-001

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

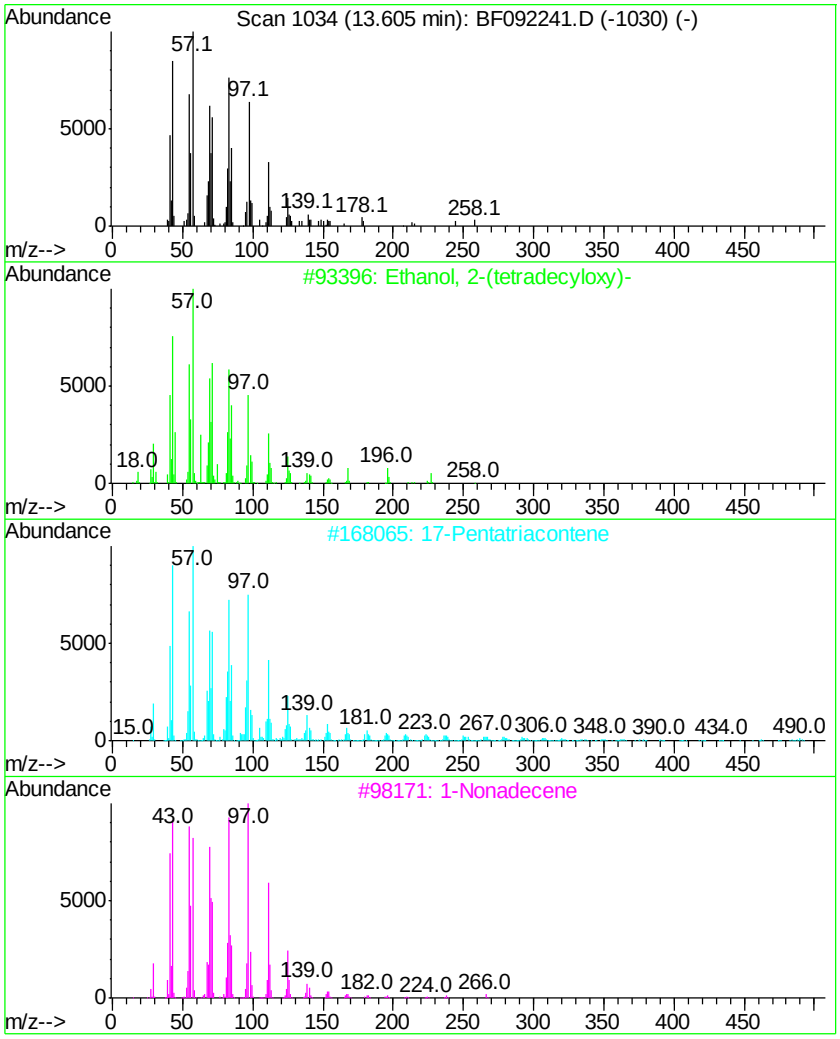
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

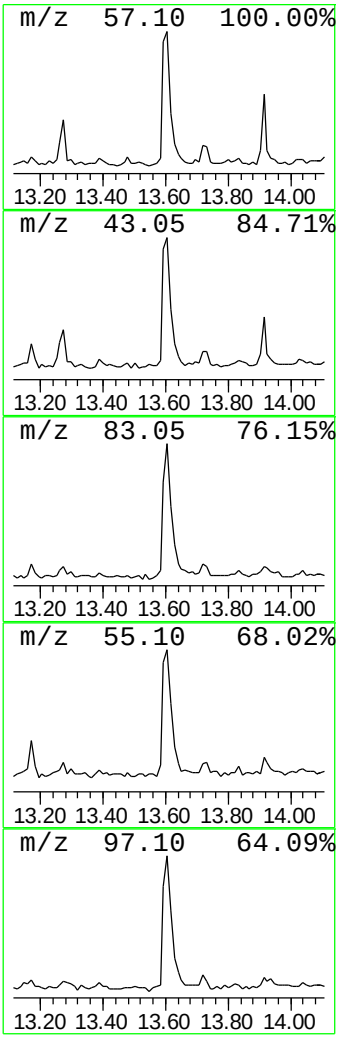
**********

Peak Number 6 Ethanol, 2-(tetradecyloxy)- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.61 | 3.77 ng | 352171 | Chrysene-d12 | 13.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Ethanol, 2-(tetradecyloxy)- | 258 | C16H34O2 | 002136-70-1 | 91 |
| 2 | 17-Pentatriacontene | 491 | C35H70 | 006971-40-0 | 91 |
| 3 | 1-Nonadecene | 266 | C19H38 | 018435-45-5 | 76 |
| 4 | 1-Decanol, 2-hexyl- | 242 | C16H34O | 002425-77-6 | 76 |
| 5 | 1-Octadecanol | 270 | C18H38O | 000112-92-5 | 76 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011317\
Data File : BF092241.D
Acq On : 13 Jan 2017 11:24
Operator : UM/SJ
Sample : I1131-02
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SW-001

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

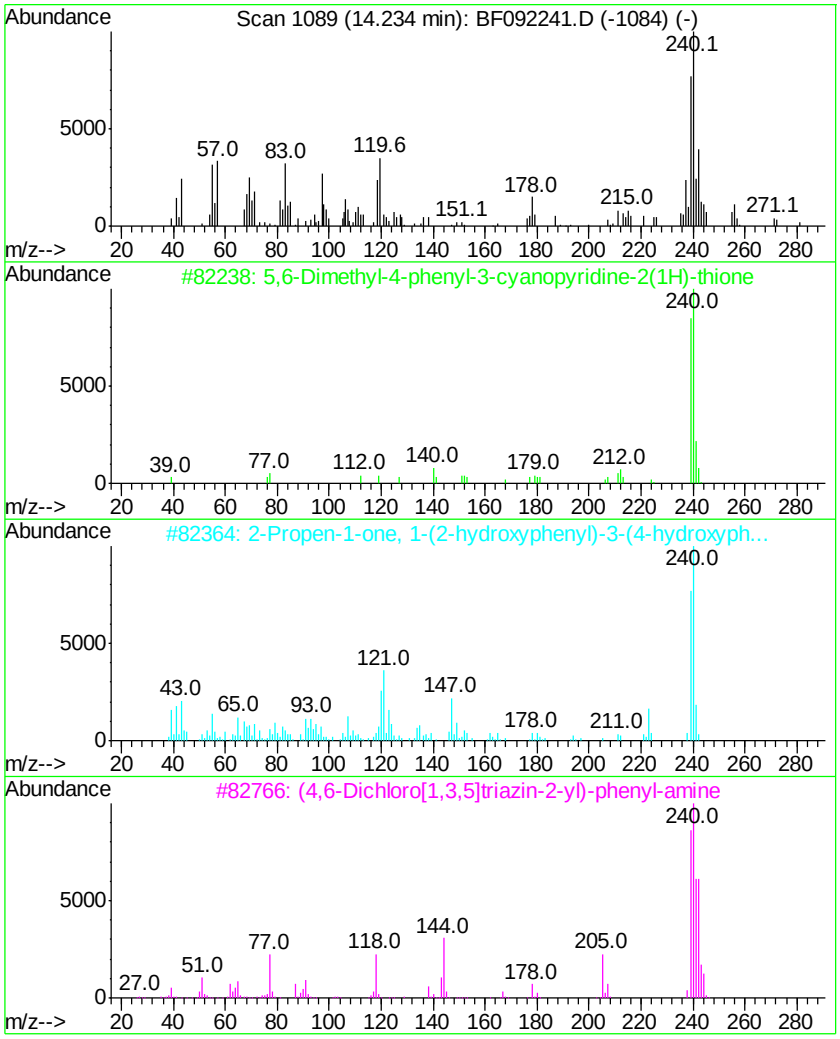
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

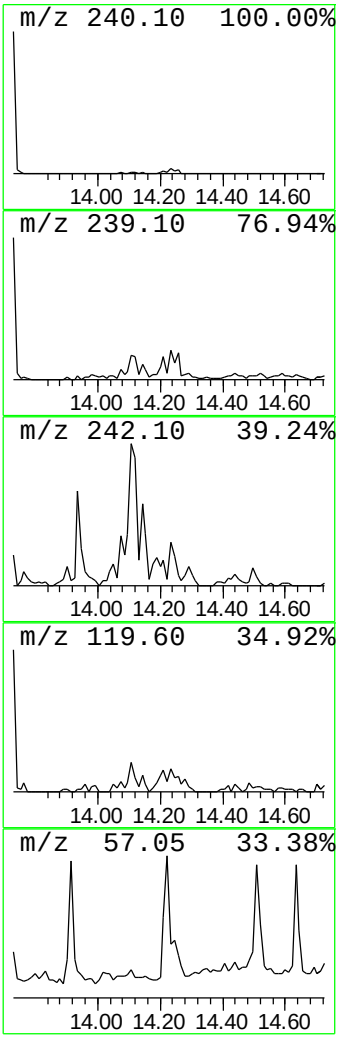
**********

Peak Number 7 unknown14.23 Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.23 | 2.12 ng | 197916 | Chrysene-d12 | 13.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5,6-Dimethyl-4-phenyl-3-cyanopyr... | 240 | C14H12N2S | 094639-18-6 | 49 |
| 2 | 2-Propen-1-one, 1-(2-hydroxyphen... | 240 | C15H12O3 | 013323-66-5 | 47 |
| 3 | (4,6-Dichloro[1,3,5]triazin-2-yl... | 240 | C9H6Cl2N4 | 002272-40-4 | 37 |
| 4 | 1-Phenyl-3-(4-fluorophenyl)-2-py... | 240 | C15H13FN2 | 061447-57-2 | 27 |
| 5 | 1,3-Dichloro-7-ethyl-5,6,7,8-tet... | 255 | C11H11Cl2N3 | 1000274-36-4 | 27 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011317\
Data File : BF092241.D
Acq On : 13 Jan 2017 11:24
Operator : UM/SJ
Sample : I1131-02
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SW-001

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

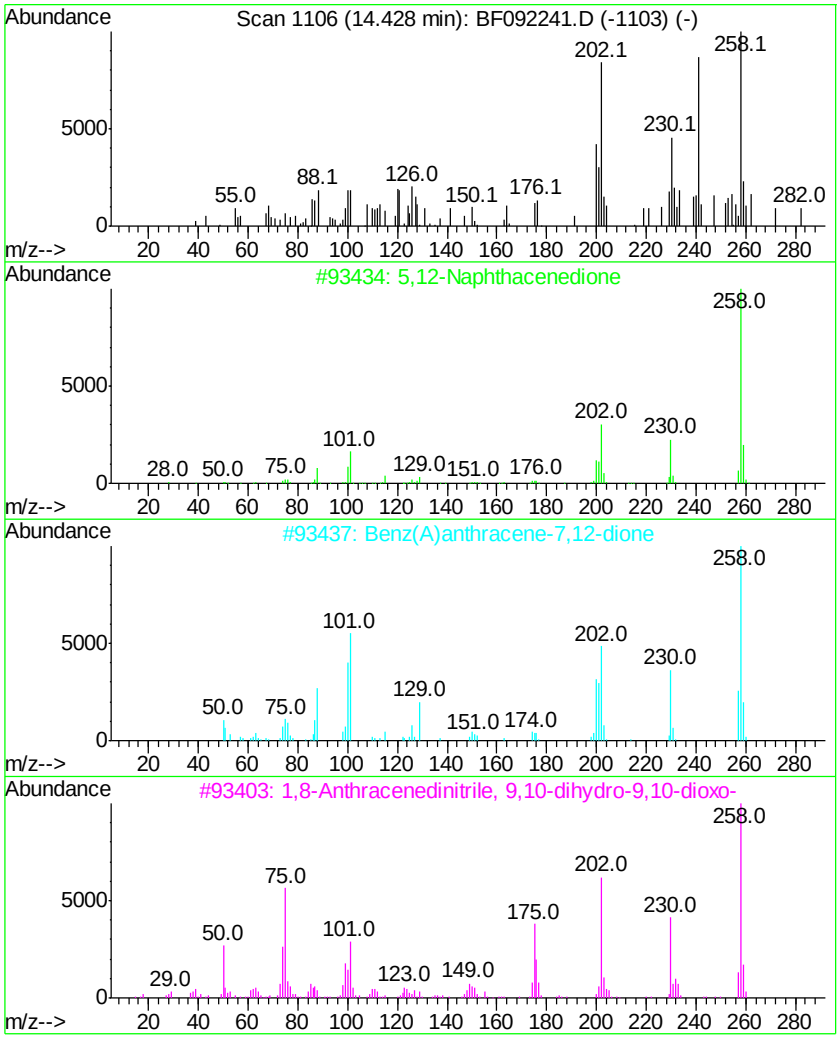
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

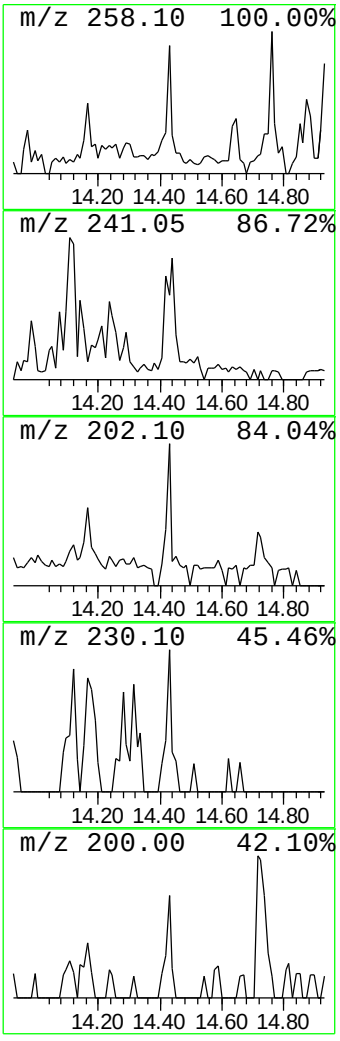
**********

Peak Number 8 5,12-Naphthacenedione Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.43 | 2.10 ng | 94897 | Perylene-d12 | 15.08 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5,12-Naphthacenedione | 258 | C18H10O2 | 001090-13-7 | 62 |
| 2 | Benz(A)anthracene-7,12-dione | 258 | C18H10O2 | 002498-66-0 | 49 |
| 3 | 1,8-Anthracenedinitrile, 9,10-di... | 258 | C16H6N2O2 | 090866-50-5 | 46 |
| 4 | 1,4-Chrysenequinone | 258 | C18H10O2 | 100900-16-1 | 27 |
| 5 | 3H-Xanthen-3-one, 2,6,7-trihydro... | 258 | C14H10O5 | 005407-46-5 | 25 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011317\
Data File : BF092241.D
Acq On : 13 Jan 2017 11:24
Operator : UM/SJ
Sample : I1131-02
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SW-001

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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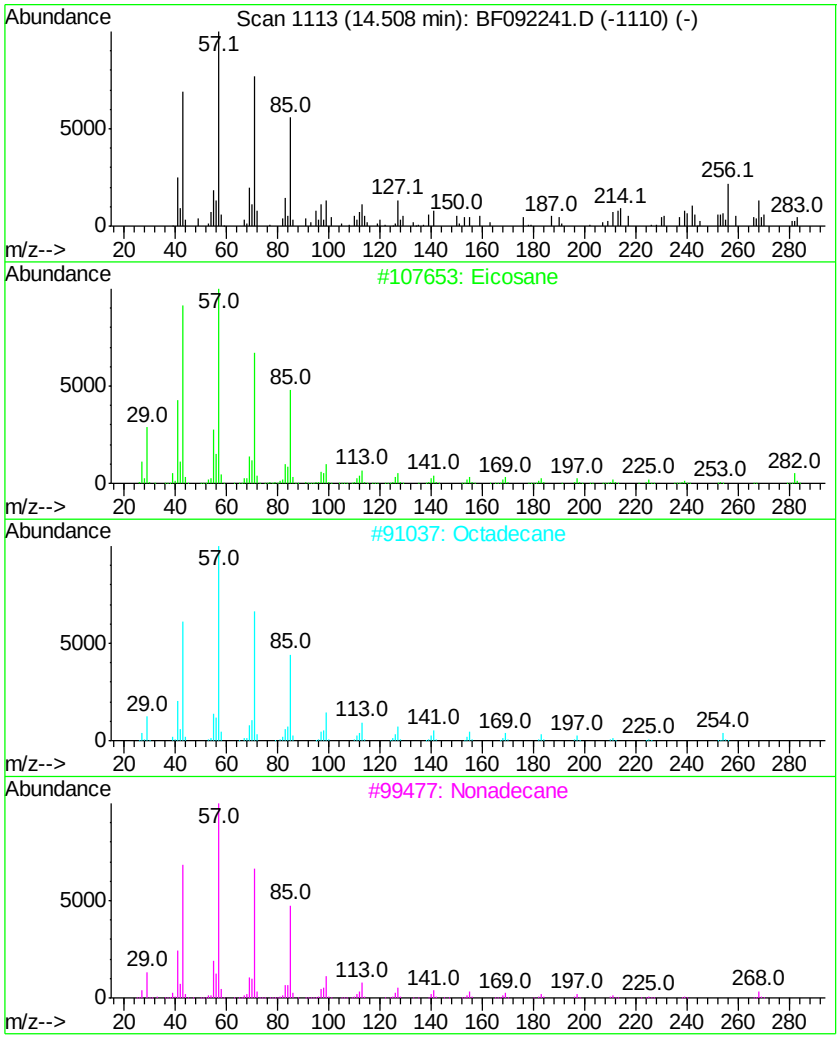
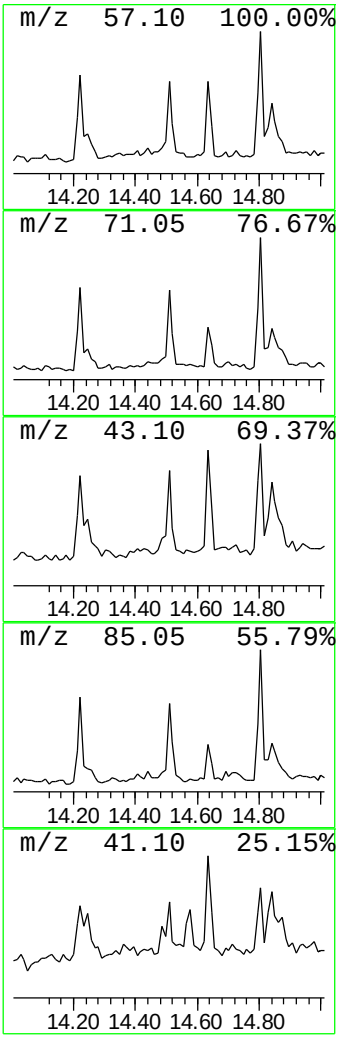
Peak Number 9 Eicosane Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.51 | 2.24 ng | 101011 | Perylene-d12 | 15.08 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Eicosane | 282 | C20H42 | 000112-95-8 | 91 |
| 2 | Octadecane | 254 | C18H38 | 000593-45-3 | 83 |
| 3 | Nonadecane | 268 | C19H40 | 000629-92-5 | 70 |
| 4 | Heptadecane | 240 | C17H36 | 000629-78-7 | 64 |
| 5 | Hexadecane | 226 | C16H34 | 000544-76-3 | 58 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011317\
Data File : BF092241.D
Acq On : 13 Jan 2017 11:24
Operator : UM/SJ
Sample : I1131-02
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SW-001

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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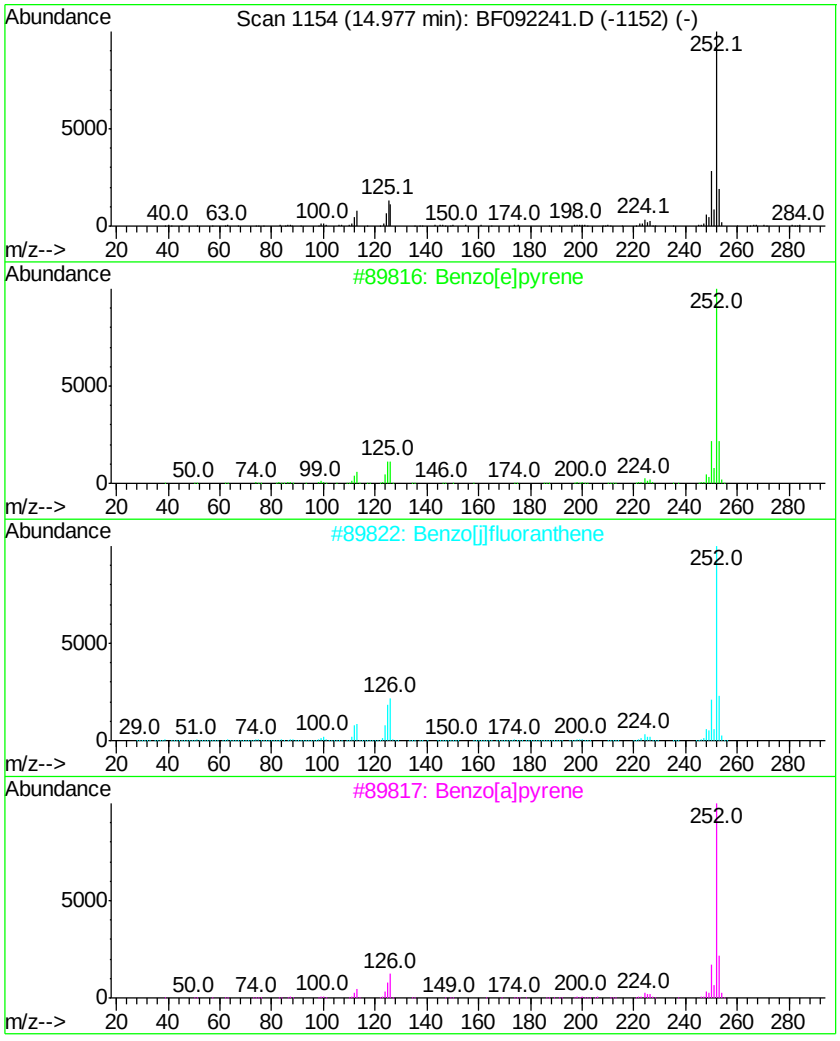
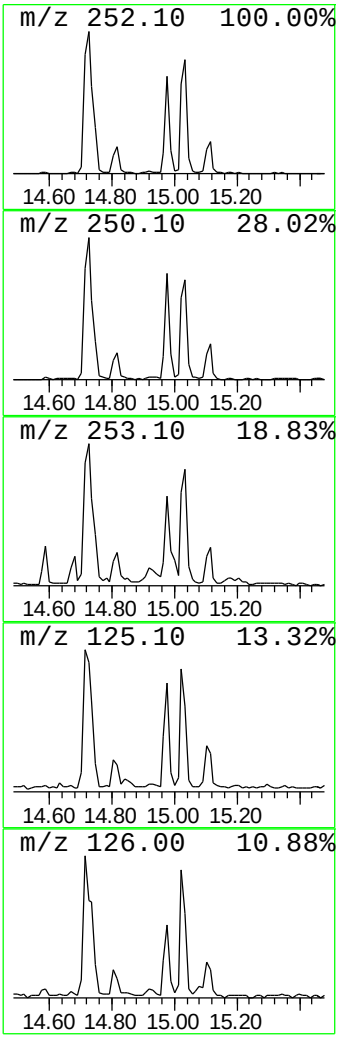
Peak Number 11 Benzo[e]pyrene Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.98 | 5.83 ng | 263362 | Perylene-d12 | 15.08 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 99 |
| 2 | Benzo[j]fluoranthene | 252 | C20H12 | 000205-82-3 | 95 |
| 3 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 95 |
| 4 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 95 |
| 5 | Perylene | 252 | C20H12 | 000198-55-0 | 95 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011317\
Data File : BF092241.D
Acq On : 13 Jan 2017 11:24
Operator : UM/SJ
Sample : I1131-02
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SW-001

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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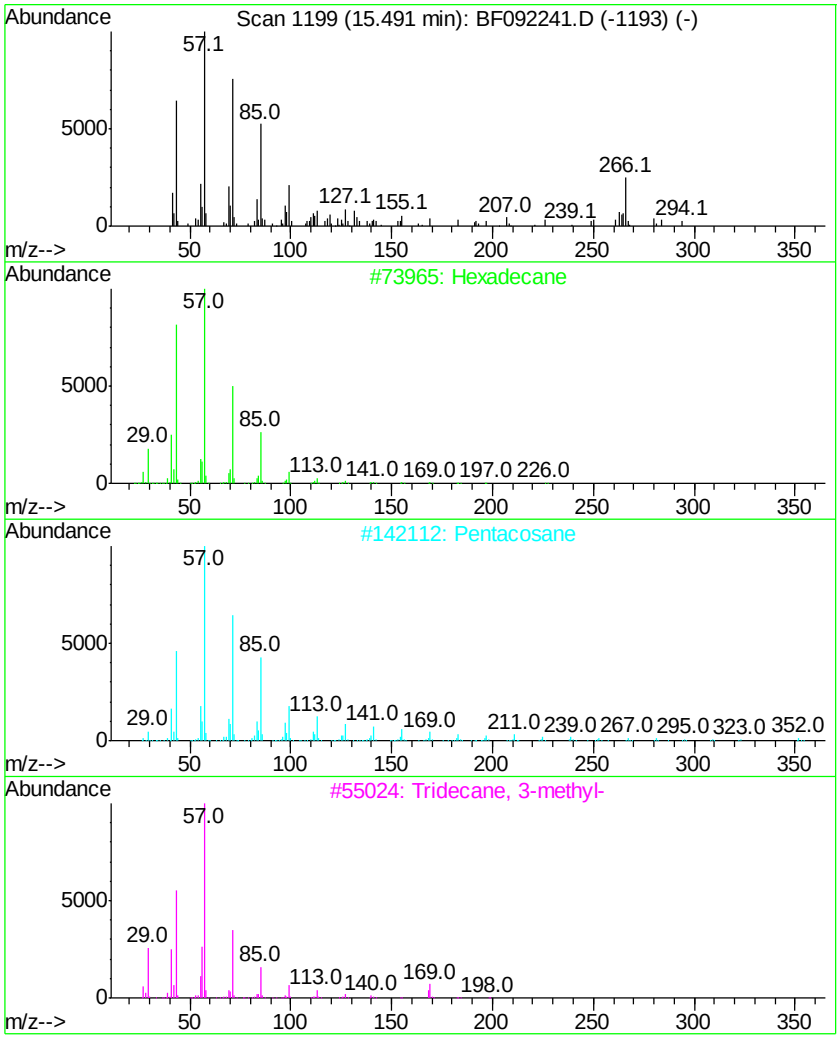
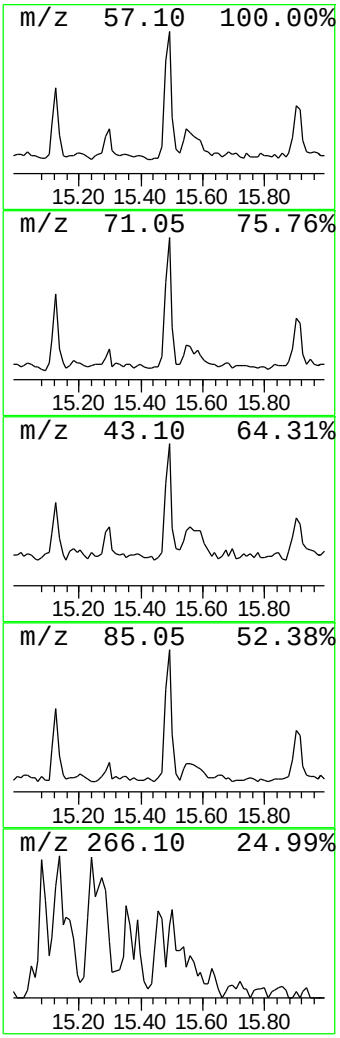
Peak Number 12 Hexadecane Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.49 | 3.46 ng | 156341 | Perylene-d12 | 15.08 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecane | 226 | C16H34 | 000544-76-3 | 86 |
| 2 | Pentacosane | 352 | C25H52 | 000629-99-2 | 72 |
| 3 | Tridecane, 3-methyl- | 198 | C14H30 | 006418-41-3 | 72 |
| 4 | Octacosane | 394 | C28H58 | 000630-02-4 | 72 |
| 5 | Triacontane | 422 | C30H62 | 000638-68-6 | 72 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011317\
Data File : BF092241.D
Acq On : 13 Jan 2017 11:24
Operator : UM/SJ
Sample : I1131-02
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SW-001

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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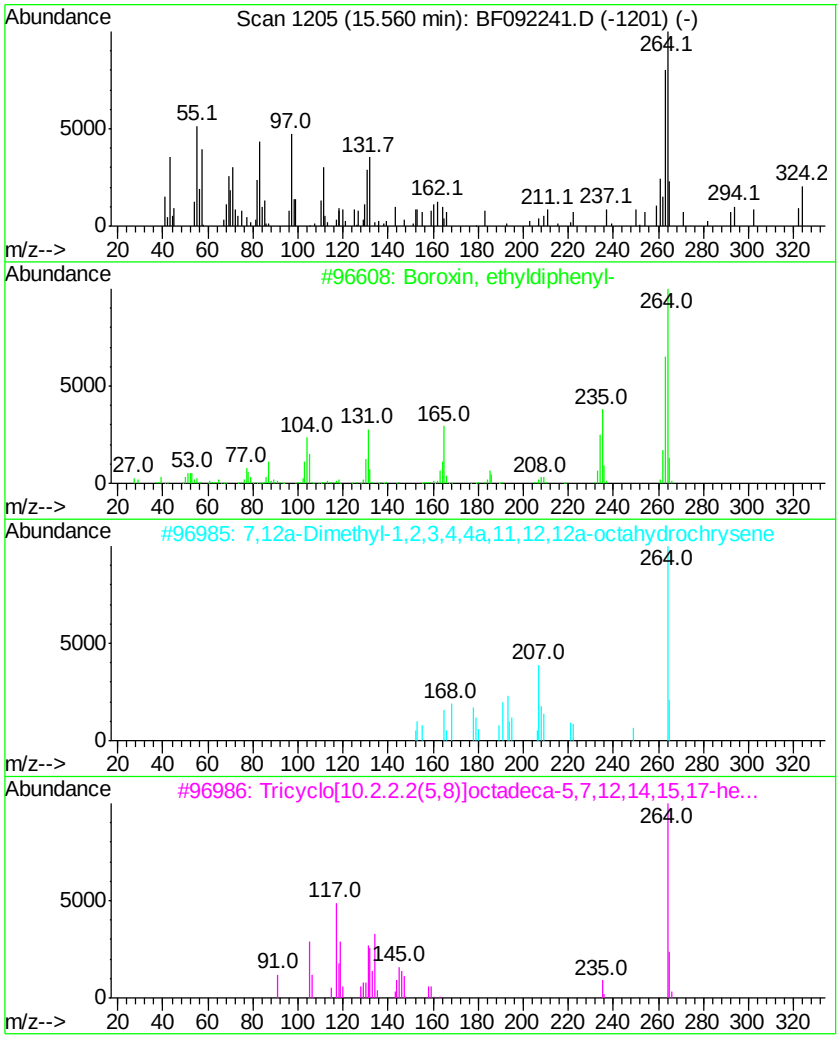
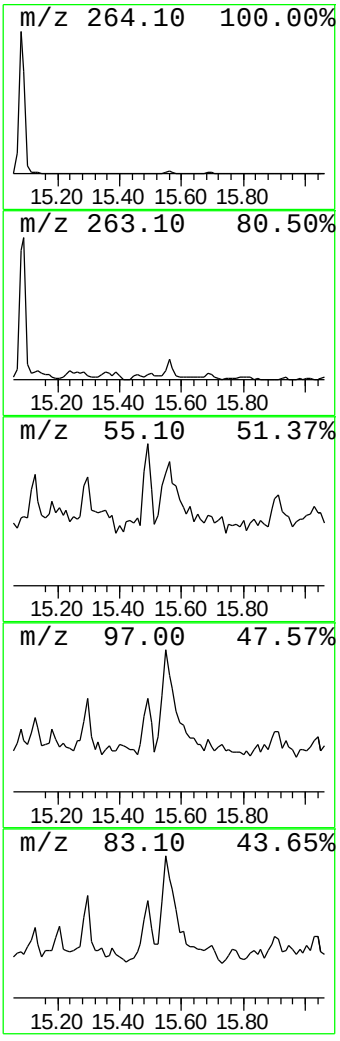
Peak Number 13 unknown15.56 Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.56 | 3.75 ng | 169380 | Perylene-d12 | 15.08 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Boroxin, ethyldiphenyl- | 264 | C14H15B3O3 | 1000151-82-0 | 37 |
| 2 | 7,12a-Dimethyl-1,2,3,4,4a,11,12,... | 264 | C20H24 | 075758-27-9 | 27 |
| 3 | Tricyclo[10.2.2.2(5,8)]octadeca-... | 264 | C20H24 | 024777-38-6 | 25 |
| 4 | 3,3'-Dimethyl-4,4'-biphenylene d... | 264 | C16H12N2O2 | 000091-97-4 | 22 |
| 5 | Pyrazolo[1,5-a]pyrimidin-7-amine... | 264 | C14H12N6 | 1000276-36-9 | 16 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011317\
Data File : BF092241.D
Acq On : 13 Jan 2017 11:24
Operator : UM/SJ
Sample : I1131-02
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SW-001

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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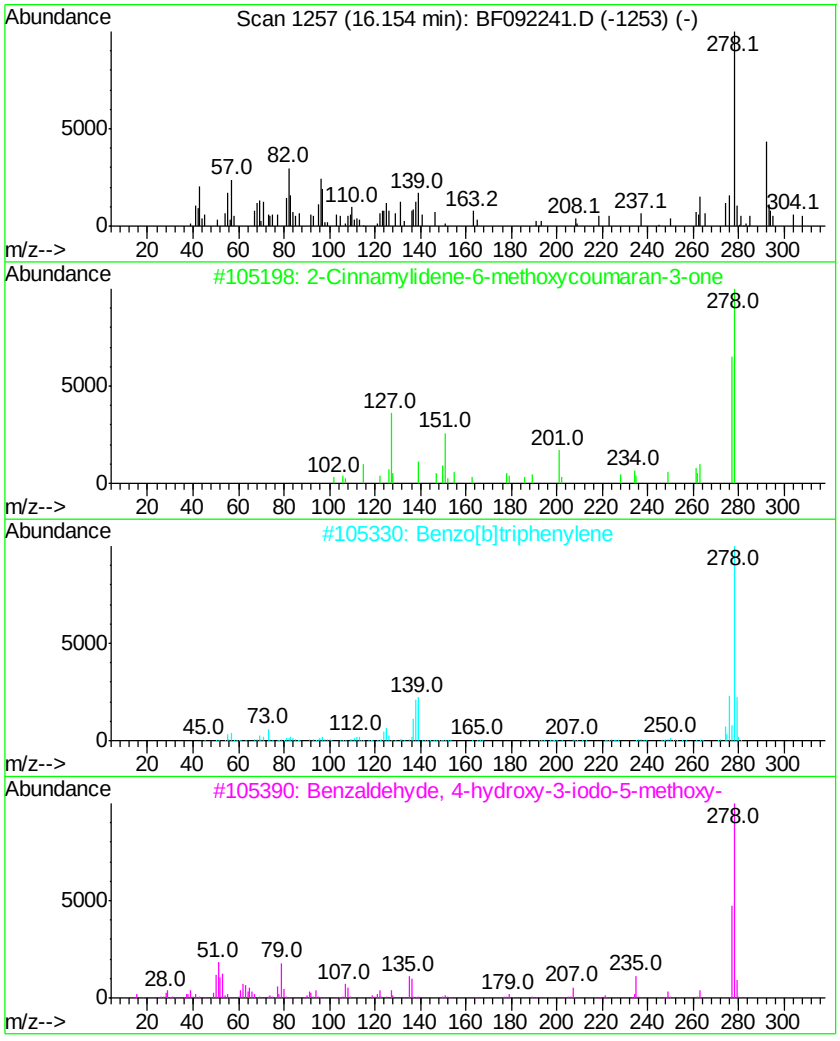
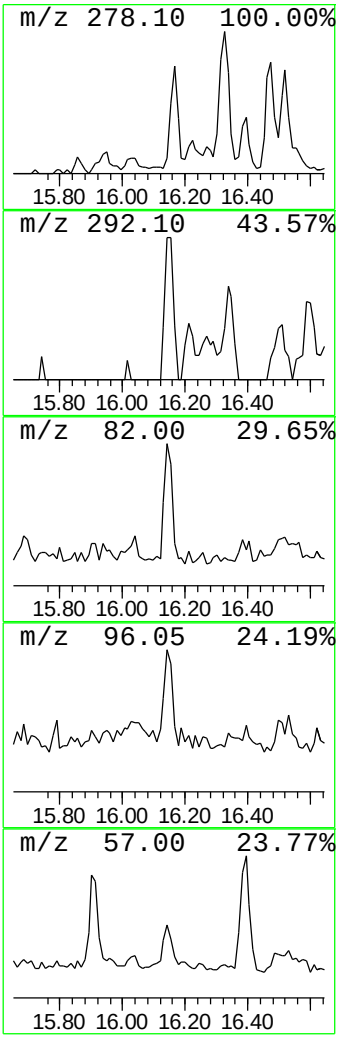
Peak Number 14 unknown16.15 Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.15 | 2.24 ng | 101222 | Perylene-d12 | 15.08 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Cinnamylidene-6-methoxycoumara... | 278 | C18H14O3 | 077765-15-2 | 32 |
| 2 | Benzo[b]triphenylene | 278 | C22H14 | 000215-58-7 | 27 |
| 3 | Benzaldehyde, 4-hydroxy-3-iodo-5... | 278 | C8H7IO3 | 005438-36-8 | 27 |
| 4 | Dibenz[a,h]anthracene | 278 | C22H14 | 000053-70-3 | 27 |
| 5 | 3,6-Diacetyl-9-isopropylcarbazole | 293 | C19H19NO2 | 010511-41-8 | 23 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011317\
Data File : BF092241.D
Acq On : 13 Jan 2017 11:24
Operator : UM/SJ
Sample : I1131-02
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SW-001

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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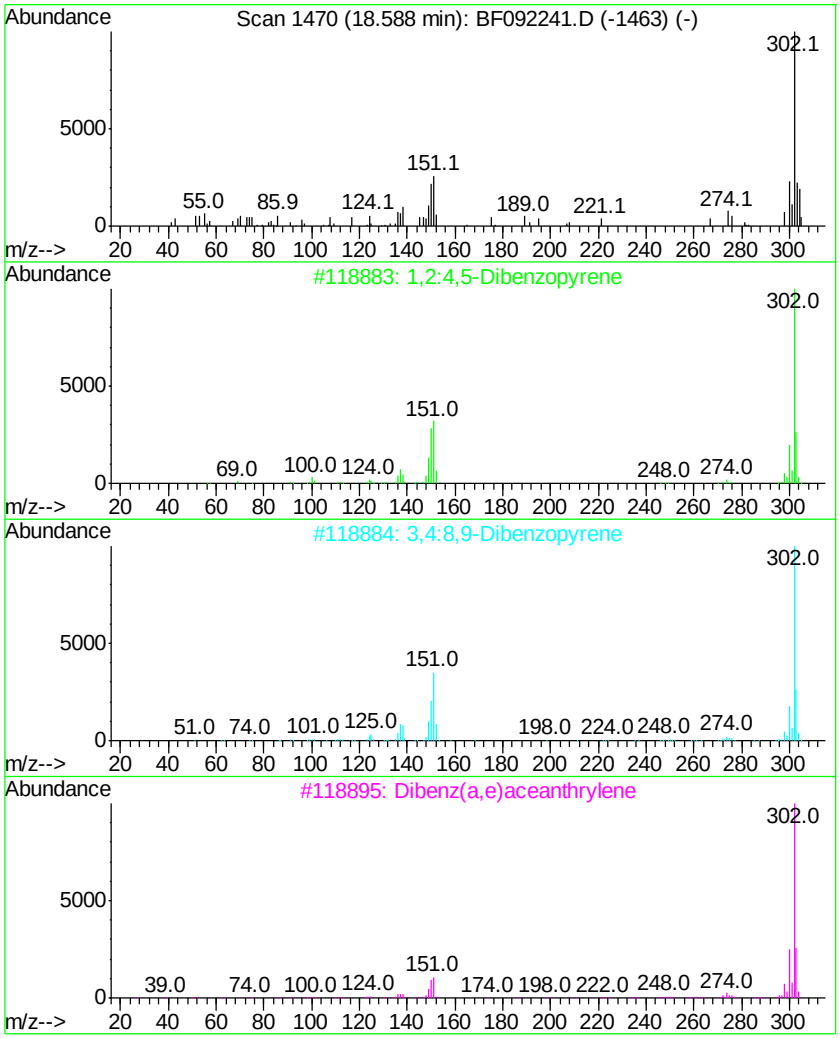
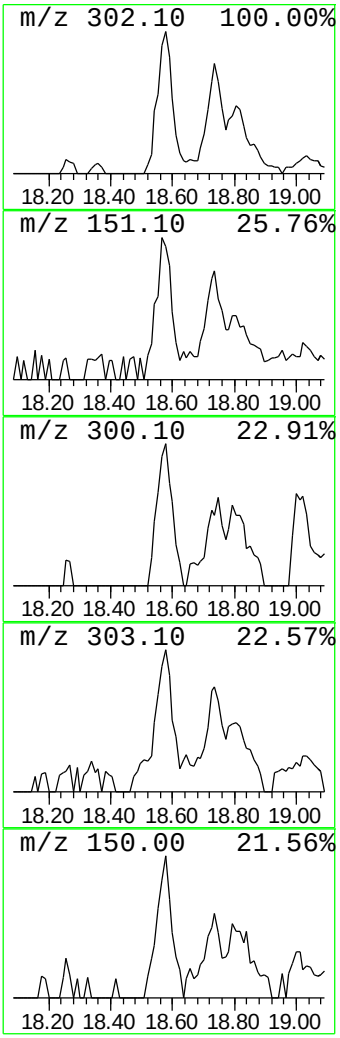
Peak Number 15 1,2:4,5-Dibenzopyrene Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.59 | 2.70 ng | 121830 | Perylene-d12 | 15.08 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,2:4,5-Dibenzopyrene | 302 | C24H14 | 000192-65-4 | 76 |
| 2 | 3,4:8,9-Dibenzopyrene | 302 | C24H14 | 000189-64-0 | 76 |
| 3 | Dibenz(a,e)aceanthrylene | 302 | C24H14 | 005385-75-1 | 76 |
| 4 | Indeno[1,2,3-fg]naphthacene | 302 | C24H14 | 000203-11-2 | 62 |
| 5 | 3,4:9,10-Dibenzopyrene | 302 | C24H14 | 000189-55-9 | 53 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF011317\
Data File : BF092241.D
Acq On : 13 Jan 2017 11:24
Operator : UM/SJ
Sample : I1131-02
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SW-001

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| 2-Pentanone, 4-hy... | 4.71 | 45.9 | ng | 2504610 | 1 | 6.59 | 1091450 | 20.0 |
| unknown6.36 | 6.36 | 82.5 | ng | 4500080 | 1 | 6.59 | 1091450 | 20.0 |
| n-Hexadecanoic acid | 11.65 | 3.5 | ng | 344967 | 4 | 11.10 | 1972320 | 20.0 |
| 4H-Cyclopenta[def... | 11.71 | 2.3 | ng | 226295 | 4 | 11.10 | 1972320 | 20.0 |
| Ethanol, 2-(tetra... | 13.61 | 3.8 | ng | 352171 | 5 | 13.72 | 1868540 | 20.0 |
| unknown14.23 | 14.23 | 2.1 | ng | 197916 | 5 | 13.72 | 1868540 | 20.0 |
| 5,12-Naphthacened... | 14.43 | 2.1 | ng | 94897 | 6 | 15.08 | 903514 | 20.0 |
| Eicosane | 14.51 | 2.2 | ng | 101011 | 6 | 15.08 | 903514 | 20.0 |
| Benzo[e]pyrene | 14.98 | 5.8 | ng | 263362 | 6 | 15.08 | 903514 | 20.0 |
| Hexadecane | 15.49 | 3.5 | ng | 156341 | 6 | 15.08 | 903514 | 20.0 |
| unknown15.56 | 15.56 | 3.8 | ng | 169380 | 6 | 15.08 | 903514 | 20.0 |
| unknown16.15 | 16.15 | 2.2 | ng | 101222 | 6 | 15.08 | 903514 | 20.0 |
| 1,2:4,5-Dibenzopy... | 18.59 | 2.7 | ng | 121830 | 6 | 15.08 | 903514 | 20.0 |