LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092217\
Data File : BF098722.D
Acq On : 23 Sep 2017 3:24
Operator : SJ/JU
Sample : I5340-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** LT-TS-002

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-BF092117.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 | 2.246 | 23 | 27 | 41 | rVB | 102650 | 175744 | 5.31% | 0.521% |
| 2 | 2.369 | 45 | 48 | 62 | rVB5 | 26912 | 62493 | 1.89% | 0.185% |
| 3 | 5.157 | 518 | 522 | 531 | rVB | 469577 | 594872 | 17.96% | 1.762% |
| 4 | 5.551 | 583 | 589 | 592 | rBV | 3038750 | 3191531 | 96.37% | 9.454% |
| 5 | 6.551 | 753 | 759 | 762 | rBV | 3031401 | 3205390 | 96.79% | 9.495% |
| 6 | 6.698 | 779 | 784 | 787 | rBV | 3508586 | 3277637 | 98.97% | 9.709% |
| 7 | 6.928 | 819 | 823 | 827 | rBV | 1093540 | 861134 | 26.00% | 2.551% |
| 8 | 7.086 | 846 | 850 | 853 | rBV | 2873172 | 2441546 | 73.72% | 7.232% |
| 9 | 7.486 | 913 | 918 | 922 | rBV | 1902248 | 2006794 | 60.60% | 5.945% |
| 10 | 7.551 | 924 | 929 | 935 | rVB3 | 32929 | 38170 | 1.15% | 0.113% |
| 11 | 8.210 | 1037 | 1041 | 1044 | rBV | 1411860 | 1112010 | 33.58% | 3.294% |
| 12 | 9.286 | 1218 | 1224 | 1227 | rBV | 3552535 | 3311766 | 100.00% | 9.810% |
| 13 | 9.675 | 1286 | 1290 | 1293 | rBV | 559390 | 461099 | 13.92% | 1.366% |
| 14 | 9.886 | 1322 | 1326 | 1330 | rVB | 52169 | 43815 | 1.32% | 0.130% |
| 15 | 9.939 | 1330 | 1335 | 1336 | rBV | 64702 | 57275 | 1.73% | 0.170% |
| 16 | 9.963 | 1336 | 1339 | 1343 | rVB | 1206309 | 1065216 | 32.16% | 3.155% |
| 17 | 10.386 | 1408 | 1411 | 1414 | rVB | 94270 | 70402 | 2.13% | 0.209% |
| 18 | 10.604 | 1441 | 1448 | 1451 | rBV2 | 23195 | 37237 | 1.12% | 0.110% |
| 19 | 10.751 | 1466 | 1473 | 1476 | rBV | 1909851 | 1691065 | 51.06% | 5.009% |
| 20 | 10.857 | 1488 | 1491 | 1501 | rVB | 87772 | 97819 | 2.95% | 0.290% |
| 21 | 10.957 | 1505 | 1508 | 1511 | rVB2 | 77828 | 62631 | 1.89% | 0.186% |
| 22 | 11.310 | 1565 | 1568 | 1570 | rBV | 52353 | 41407 | 1.25% | 0.123% |
| 23 | 11.451 | 1588 | 1592 | 1595 | rBV | 1070316 | 892196 | 26.94% | 2.643% |
| 24 | 11.474 | 1595 | 1596 | 1598 | rVB | 94980 | 45269 | 1.37% | 0.134% |
| 25 | 11.968 | 1675 | 1680 | 1688 | rBV2 | 321220 | 355596 | 10.74% | 1.053% |
| 26 | 12.663 | 1794 | 1798 | 1804 | rBV | 162128 | 183321 | 5.54% | 0.543% |
| 27 | 12.751 | 1810 | 1813 | 1823 | rVB2 | 126183 | 131877 | 3.98% | 0.391% |
| 28 | 12.892 | 1834 | 1837 | 1841 | rVB | 138402 | 114556 | 3.46% | 0.339% |
| 29 | 13.033 | 1857 | 1861 | 1865 | rBV | 2557511 | 2365838 | 71.44% | 7.008% |
| 30 | 13.233 | 1890 | 1895 | 1898 | rBV3 | 22584 | 35841 | 1.08% | 0.106% |
| 31 | 13.551 | 1946 | 1949 | 1952 | rVB4 | 40977 | 40054 | 1.21% | 0.119% |
| 32 | 13.792 | 1987 | 1990 | 1994 | rBV | 150784 | 126081 | 3.81% | 0.373% |
| 33 | 13.921 | 2008 | 2012 | 2020 | rBV2 | 297363 | 316794 | 9.57% | 0.938% |
| 34 | 14.092 | 2036 | 2041 | 2043 | rBV | 873186 | 877603 | 26.50% | 2.600% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092217\
Data File : BF098722.D
Acq On : 23 Sep 2017 3:24
Operator : SJ/JU
Sample : I5340-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** LT-TS-002

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-BF092117.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 14.115 | 2043 | 2045 | 2047 | rVB | 67161 | 51382 | 1.55% | 0.152% |
| 36 | 14.551 | 2115 | 2119 | 2125 | rBV | 244552 | 278603 | 8.41% | 0.825% |
| 37 | 14.939 | 2182 | 2185 | 2188 | rBV | 41816 | 44962 | 1.36% | 0.133% |
| 38 | 15.015 | 2194 | 2198 | 2208 | rVB | 328608 | 404921 | 12.23% | 1.199% |
| 39 | 15.139 | 2215 | 2219 | 2222 | rBV | 61382 | 88816 | 2.68% | 0.263% |
| 40 | 15.209 | 2227 | 2231 | 2233 | rBV | 203216 | 259875 | 7.85% | 0.770% |
| 41 | 15.233 | 2233 | 2235 | 2243 | rVB | 502929 | 542270 | 16.37% | 1.606% |
| 42 | 15.515 | 2280 | 2283 | 2287 | rVB | 36309 | 35983 | 1.09% | 0.107% |
| 43 | 15.586 | 2289 | 2295 | 2302 | rBV | 520890 | 731483 | 22.09% | 2.167% |
| 44 | 15.815 | 2329 | 2334 | 2338 | rBV2 | 111165 | 154663 | 4.67% | 0.458% |
| 45 | 16.056 | 2370 | 2375 | 2379 | rBV | 195076 | 301480 | 9.10% | 0.893% |
| 46 | 16.104 | 2379 | 2383 | 2390 | rVB | 149903 | 226600 | 6.84% | 0.671% |
| 47 | 16.486 | 2444 | 2448 | 2452 | rVB7 | 39673 | 53244 | 1.61% | 0.158% |
| 48 | 16.886 | 2510 | 2516 | 2522 | rBV | 103514 | 201385 | 6.08% | 0.597% |
| 49 | 16.956 | 2524 | 2528 | 2536 | rVB7 | 51701 | 114352 | 3.45% | 0.339% |
| 50 | 17.198 | 2564 | 2569 | 2575 | rVB2 | 63469 | 129621 | 3.91% | 0.384% |
| 51 | 17.274 | 2577 | 2582 | 2592 | rBV7 | 71390 | 159133 | 4.81% | 0.471% |
| 52 | 17.703 | 2648 | 2655 | 2665 | rBV4 | 159685 | 361270 | 10.91% | 1.070% |
| 53 | 18.545 | 2793 | 2798 | 2804 | rBV7 | 47787 | 106455 | 3.21% | 0.315% |
| 54 | 19.274 | 2917 | 2922 | 2931 | rVB7 | 46489 | 119718 | 3.61% | 0.355% |

Sum of corrected areas: 33758295

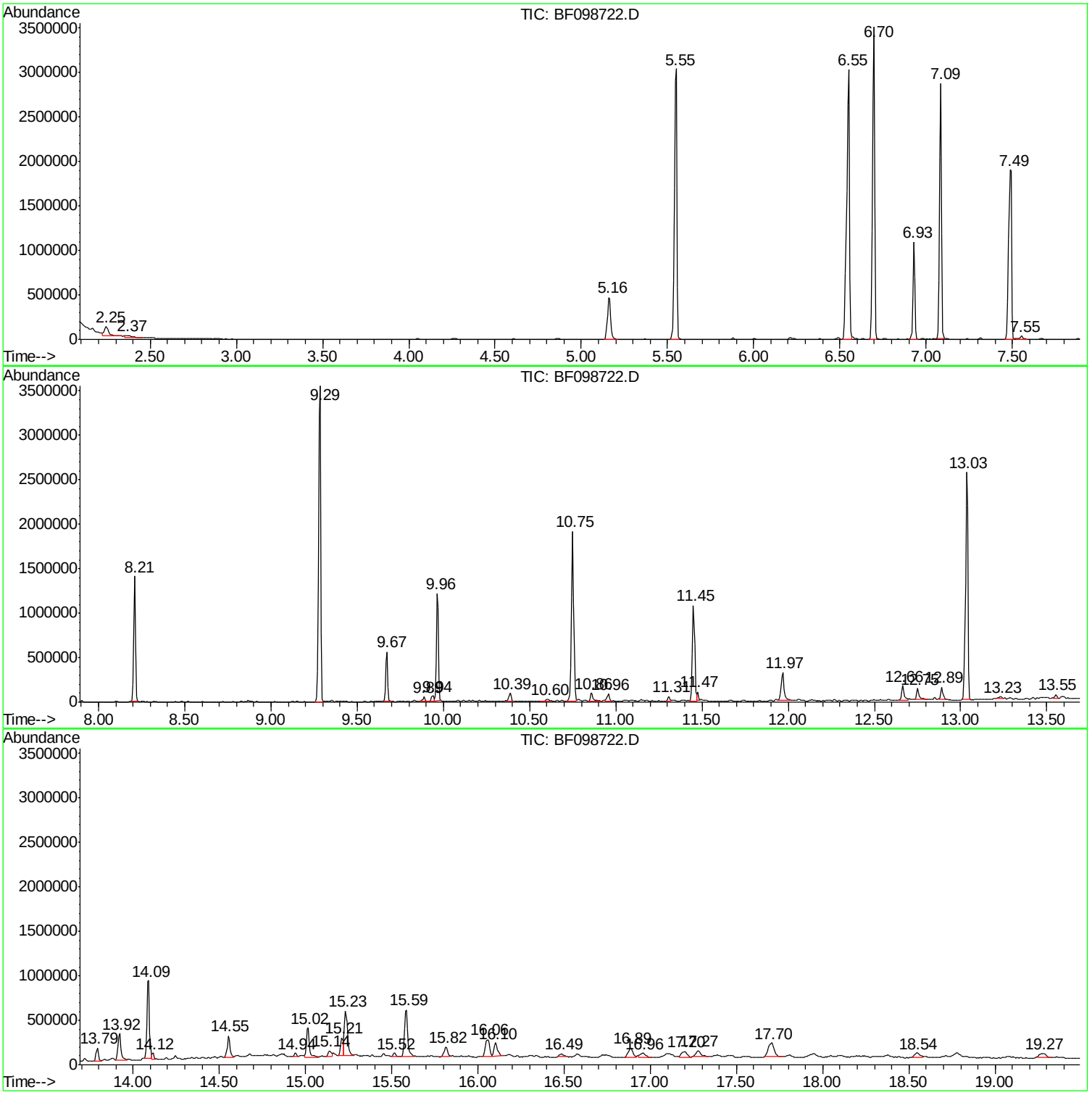
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092217\
Data File : BF098722.D
Acq On : 23 Sep 2017 3:24
Operator : SJ/JU
Sample : I5340-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** LT-TS-002

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA F\DATA\BF092217\
Data File : BF098722.D
Acq On : 23 Sep 2017 3:24
Operator : SJ/JU
Sample : I5340-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** LT-TS-002

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

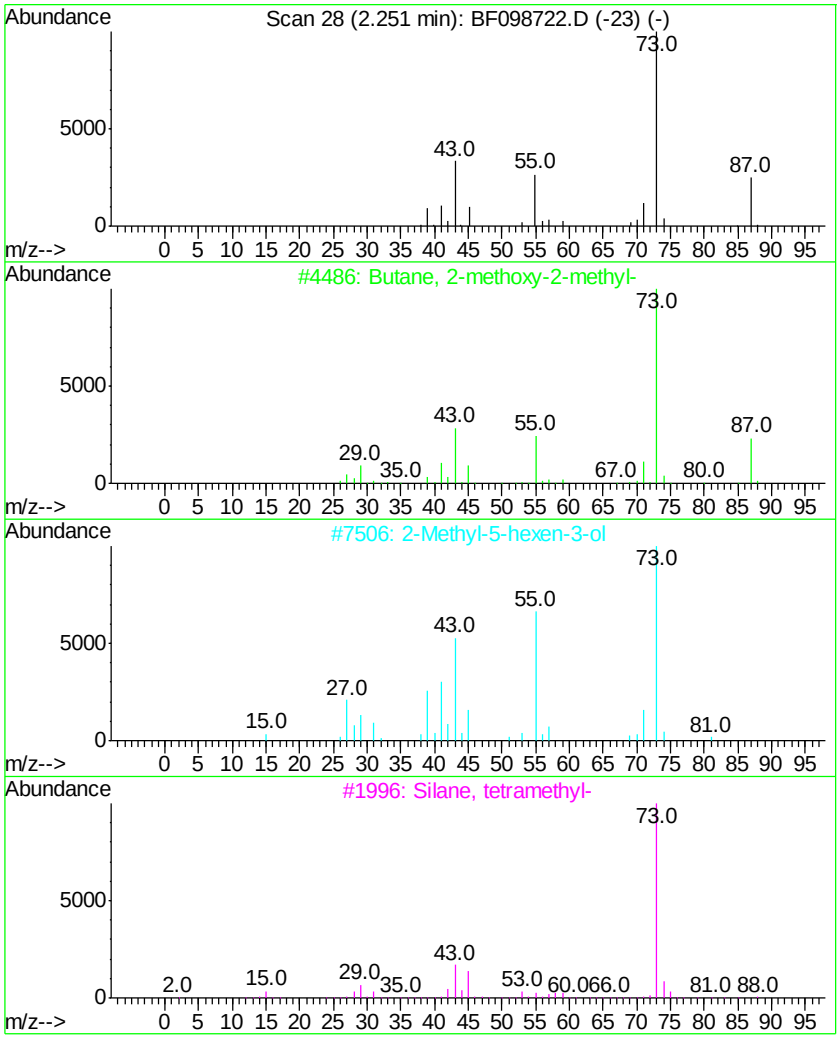
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

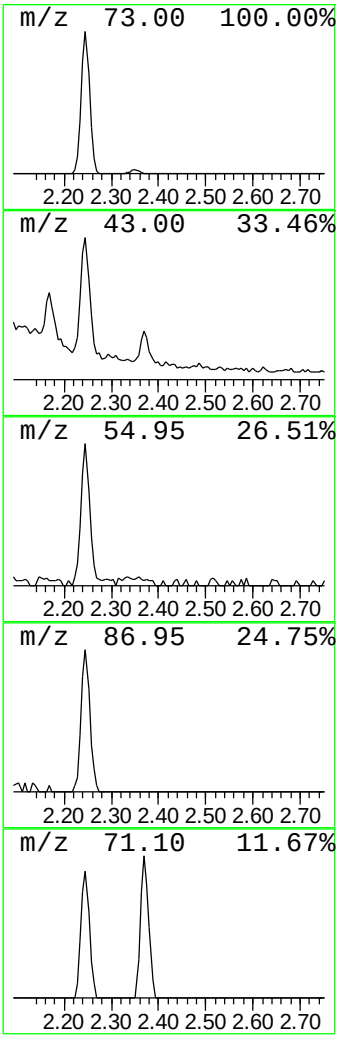
**********

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.25 | 4.08 ng | 175744 | 1,4-Dichlorobenzene-d4 | 6.93 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methoxy-2-methyl- | 102 | C6H14O | 000994-05-8 | 78 |
| 2 | 2-Methyl-5-hexen-3-ol | 114 | C7H14O | 032815-70-6 | 25 |
| 3 | Silane, tetramethyl- | 88 | C4H12Si | 000075-76-3 | 25 |
| 4 | 3-Hexanol, 2-methyl- | 116 | C7H16O | 000617-29-8 | 16 |
| 5 | Borane, dimethoxy- | 74 | C2H7BO2 | 004542-61-4 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF092217\
Data File : BF098722.D
Acq On : 23 Sep 2017 3:24
Operator : SJ/JU
Sample : I5340-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** LT-TS-002

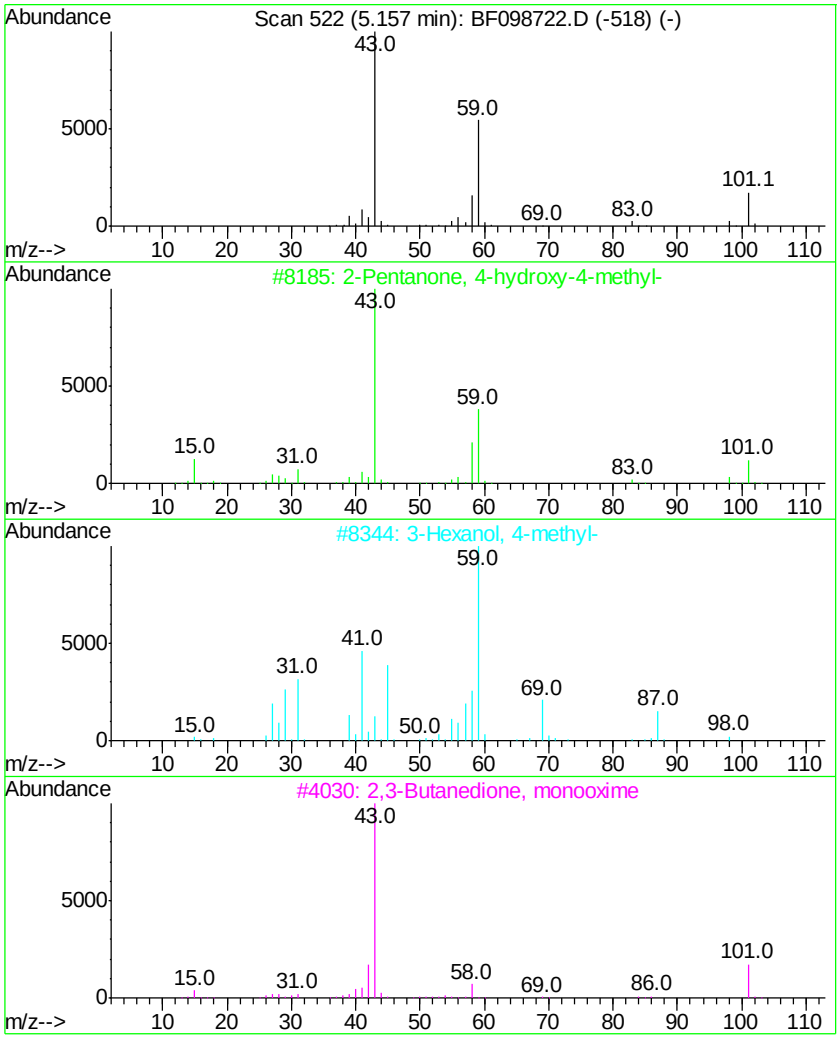
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

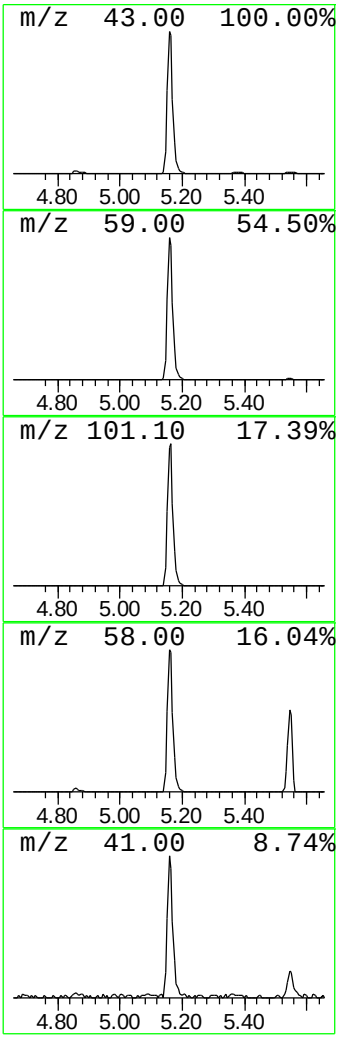
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.16 | 13.82 ng | 594872 | 1,4-Dichlorobenzene-d4 | 6.93 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 59 |
| 2 | 3-Hexanol, 4-methyl- | 116 | C7H16O | 000615-29-2 | 33 |
| 3 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 27 |
| 4 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 25 |
| 5 | 1-Propen-2-ol, acetate | 100 | C5H8O2 | 000108-22-5 | 10 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092217\
Data File : BF098722.D
Acq On : 23 Sep 2017 3:24
Operator : SJ/JU
Sample : I5340-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** LT-TS-002

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

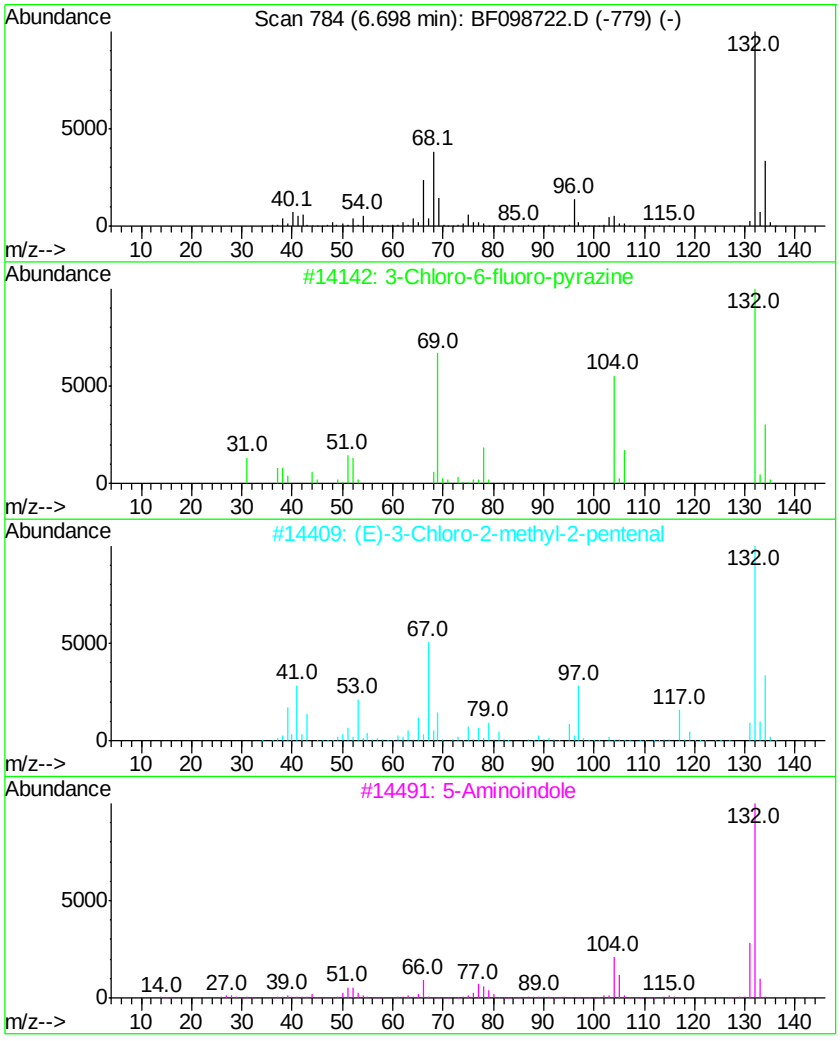
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

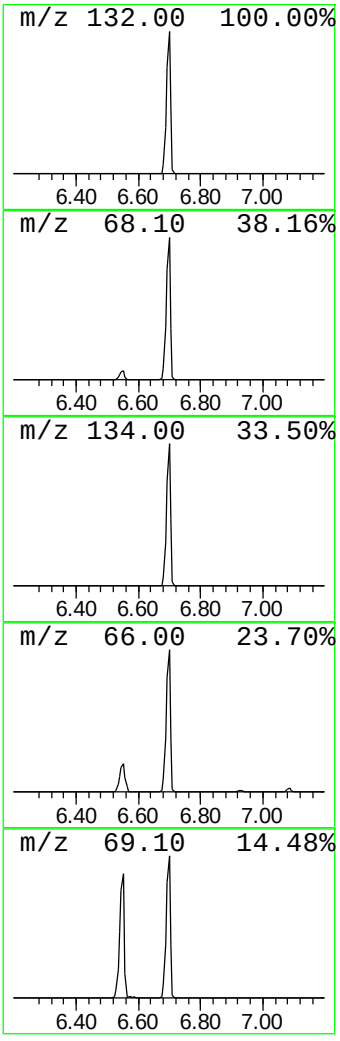
**********

Peak Number 3 unknown6.70 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.70 | 76.12 ng | 3277640 | 1,4-Dichlorobenzene-d4 | 6.93 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 27 |
| 2 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 16 |
| 3 | 5-Aminoindole | 132 | C8H8N2 | 005192-03-0 | 12 |
| 4 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 10 |
| 5 | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2 | 022291-85-6 | 9 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092217\
Data File : BF098722.D
Acq On : 23 Sep 2017 3:24
Operator : SJ/JU
Sample : I5340-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** LT-TS-002

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

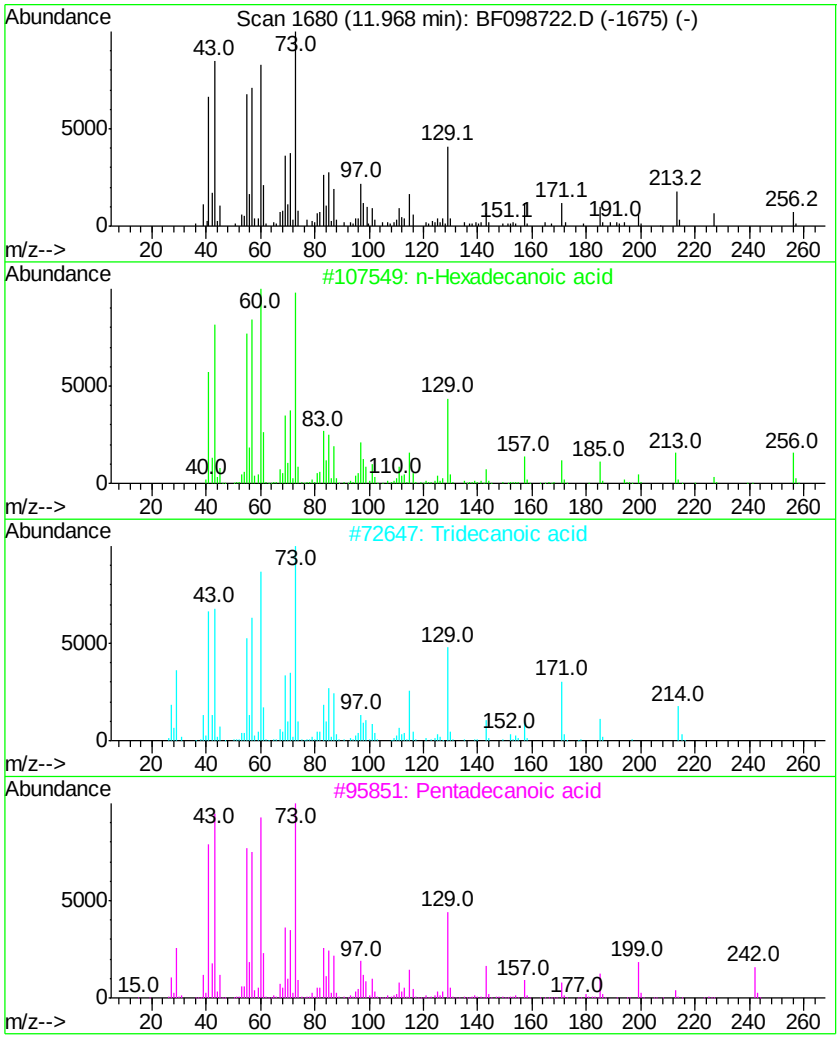
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

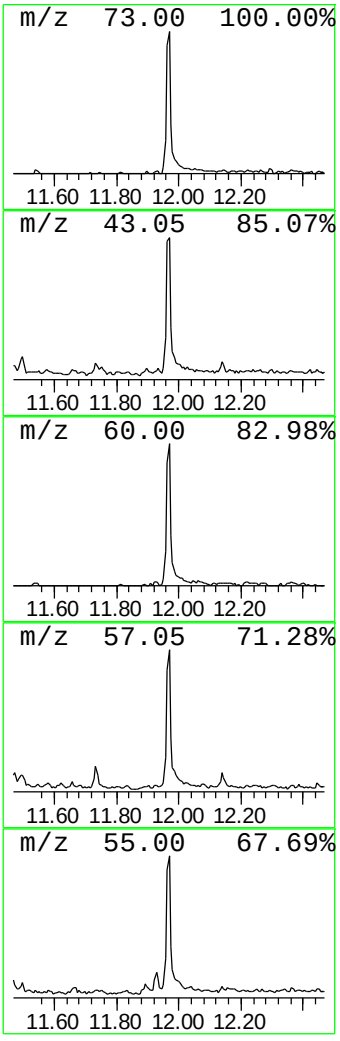
**********

Peak Number 5 n-Hexadecanoic acid Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.97 | 7.97 ng | 355596 | Phenanthrene-d10 | 11.45 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99 |
| 2 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 94 |
| 3 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 93 |
| 4 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 83 |
| 5 | n-Decanoic acid | 172 | C10H20O2 | 000334-48-5 | 70 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF092217\
Data File : BF098722.D
Acq On : 23 Sep 2017 3:24
Operator : SJ/JU
Sample : I5340-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** LT-TS-002

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

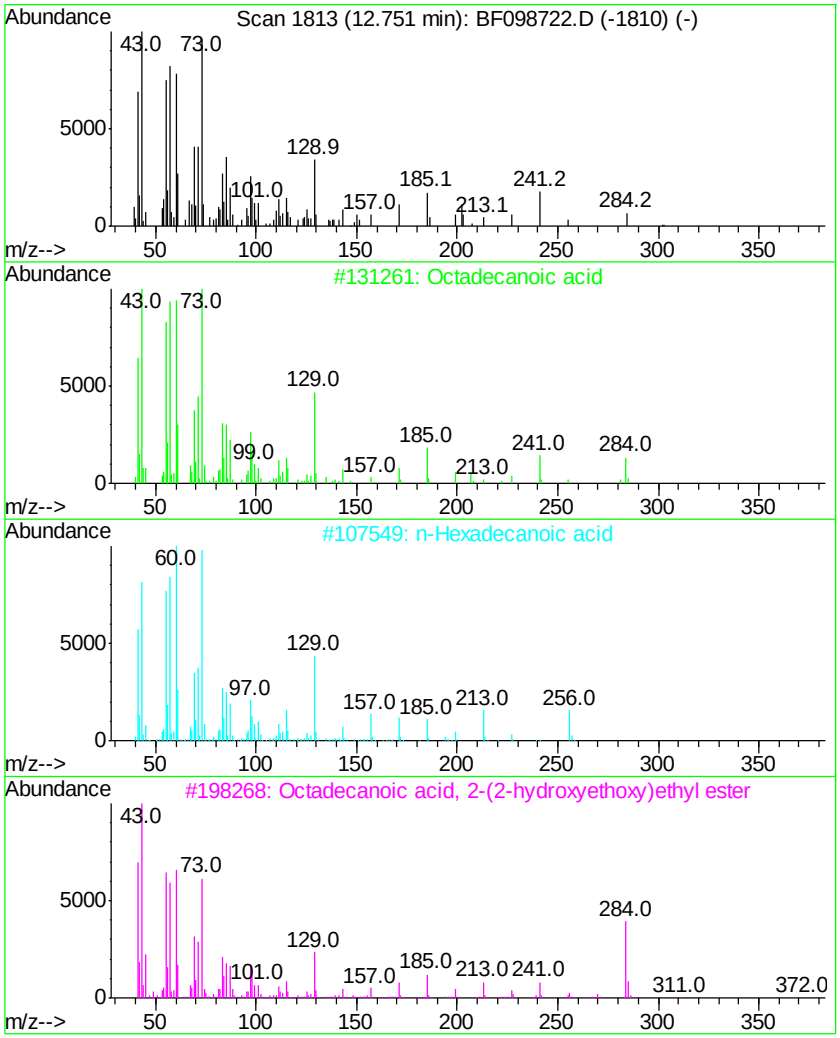
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

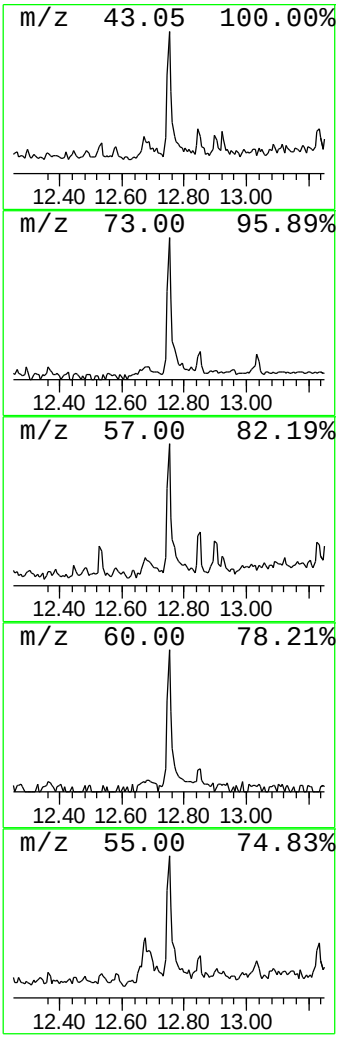
**********

Peak Number 6 Octadecanoic acid Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.75 | 2.96 ng | 131877 | Phenanthrene-d10 | 11.45 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octadecanoic acid | 284 | C18H36O2 | 000057-11-4 | 99 |
| 2 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 90 |
| 3 | Octadecanoic acid, 2-(2-hydroxye... | 372 | C22H44O4 | 000106-11-6 | 80 |
| 4 | Decanoic acid, silver(1+) salt | 278 | C10H19AgO2 | 013126-67-5 | 72 |
| 5 | Undecanoic acid | 186 | C11H22O2 | 000112-37-8 | 70 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF092217\
Data File : BF098722.D
Acq On : 23 Sep 2017 3:24
Operator : SJ/JU
Sample : I5340-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** LT-TS-002

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

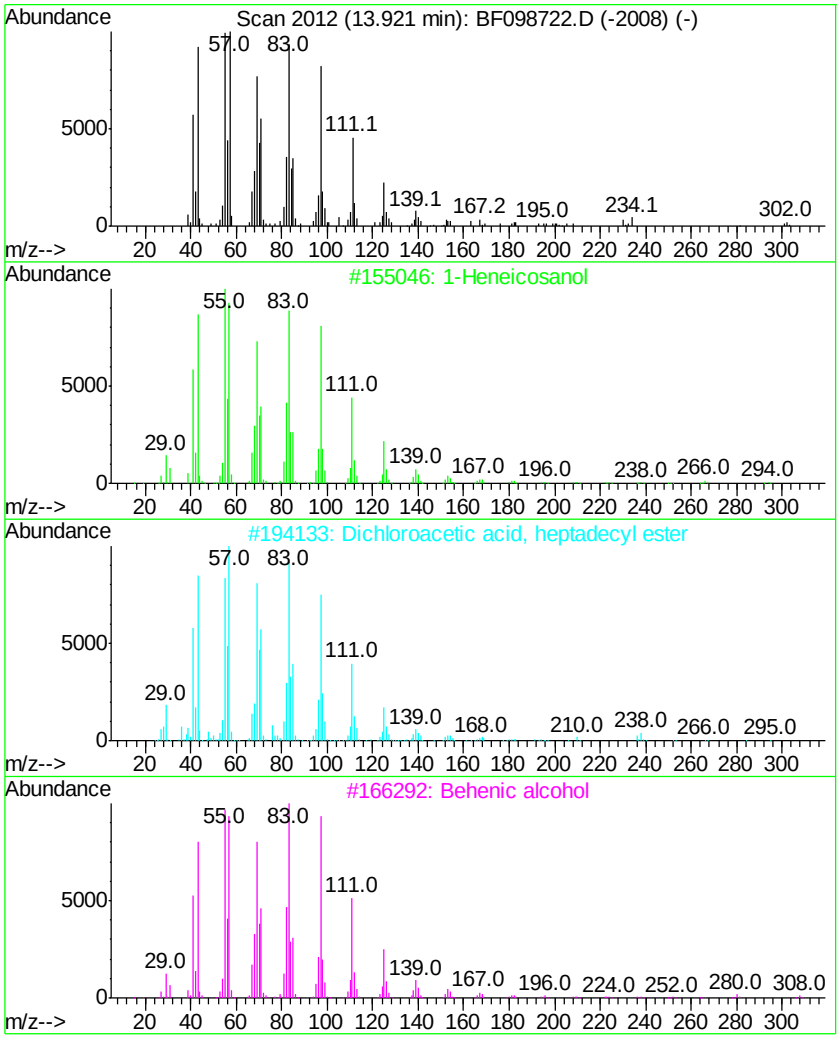
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

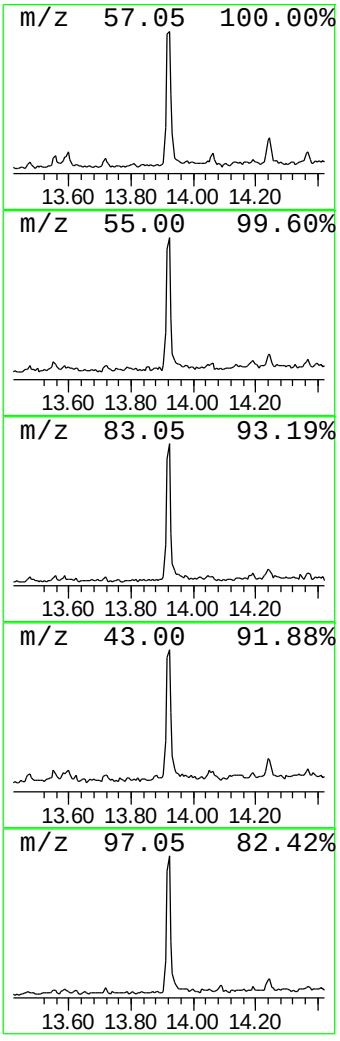
**********

Peak Number 7 1-Heneicosanol Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.92 | 7.22 ng | 316794 | Chrysene-d12 | 14.09 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Heneicosanol | 312 | C21H44O | 015594-90-8 | 94 |
| 2 | Dichloroacetic acid, heptadecyl ... | 366 | C19H36Cl2O2 | 1000282-98-2 | 94 |
| 3 | Behenic alcohol | 326 | C22H46O | 000661-19-8 | 93 |
| 4 | n-Tetracosanol-1 | 354 | C24H50O | 000506-51-4 | 93 |
| 5 | Heptadecyl trifluoroacetate | 352 | C19H35F3O2 | 1000351-87-0 | 92 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092217\
Data File : BF098722.D
Acq On : 23 Sep 2017 3:24
Operator : SJ/JU
Sample : I5340-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** LT-TS-002

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

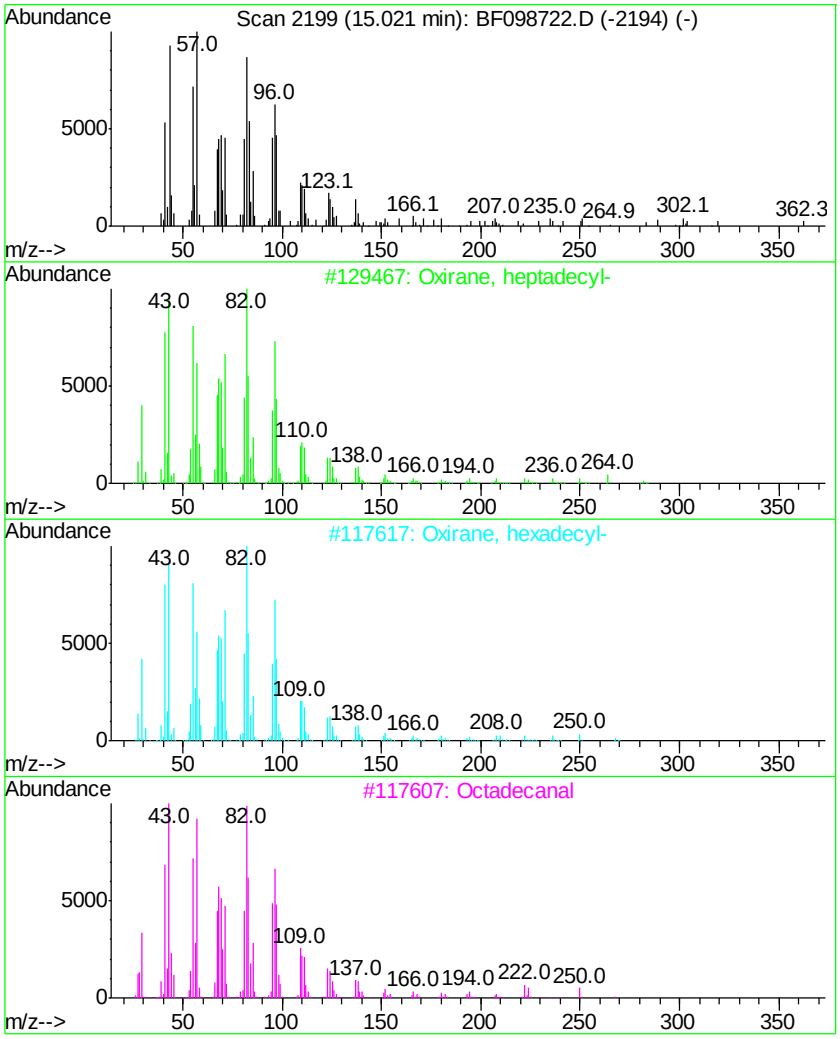
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

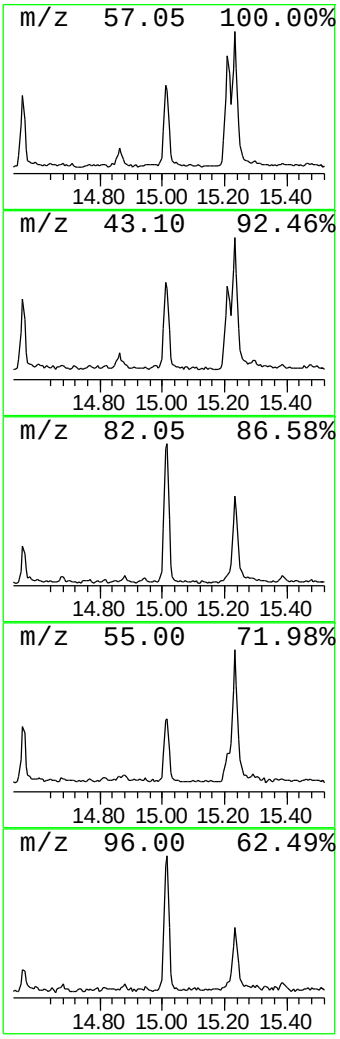
**********

Peak Number 9 Oxirane, heptadecyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.02 | 11.07 ng | 404921 | Perylene-d12 | 15.59 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Oxirane, heptadecyl- | 282 | C19H38O | 067860-04-2 | 91 |
| 2 | Oxirane, hexadecyl- | 268 | C18H36O | 007390-81-0 | 91 |
| 3 | Octadecanal | 268 | C18H36O | 000638-66-4 | 90 |
| 4 | Pentadecanal- | 226 | C15H30O | 002765-11-9 | 83 |
| 5 | 1,19-Eicosadiene | 278 | C20H38 | 014811-95-1 | 81 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF092217\
Data File : BF098722.D
Acq On : 23 Sep 2017 3:24
Operator : SJ/JU
Sample : I5340-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** LT-TS-002

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

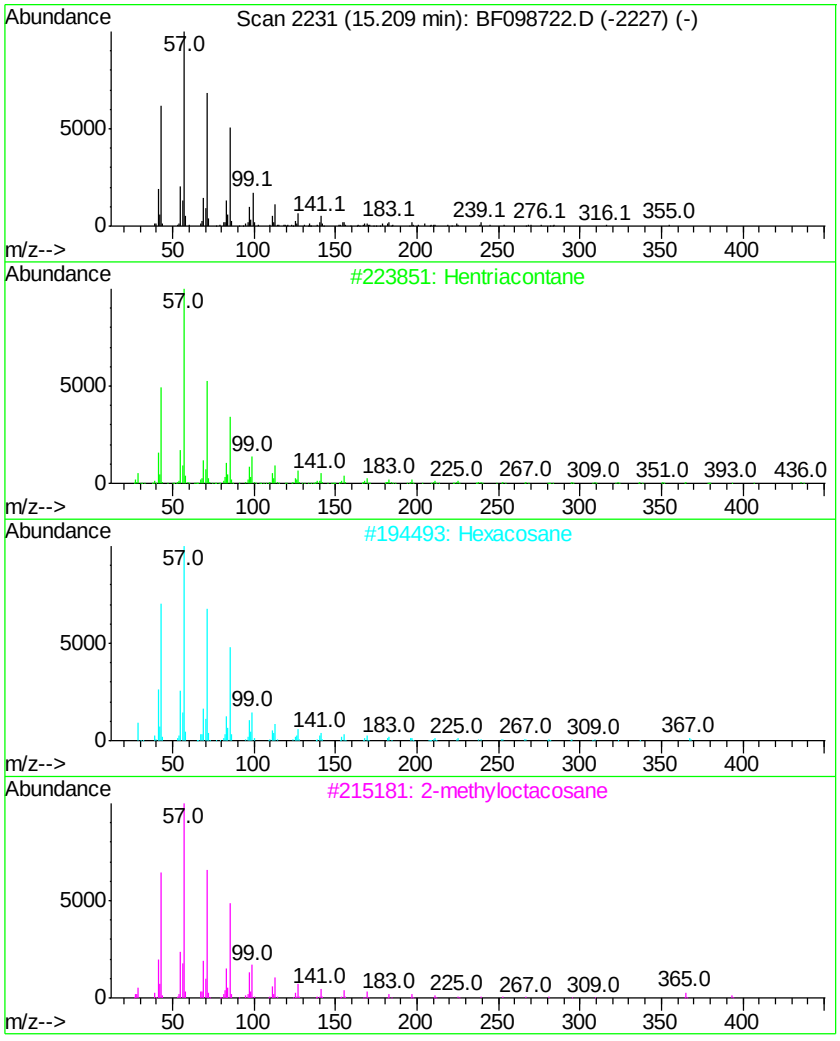
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

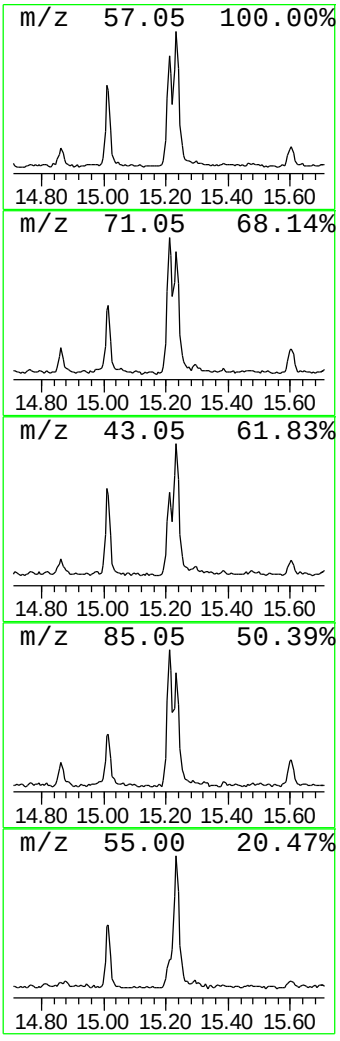
**********

Peak Number 10 Hentriacontane Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.21 | 7.11 ng | 259875 | Perylene-d12 | 15.59 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hentriacontane | 437 | C31H64 | 000630-04-6 | 91 |
| 2 | Hexacosane | 366 | C26H54 | 000630-01-3 | 91 |
| 3 | 2-methyloctacosane | 408 | C29H60 | 1000376-72-8 | 91 |
| 4 | Tetracosane | 338 | C24H50 | 000646-31-1 | 91 |
| 5 | Octacosane | 394 | C28H58 | 000630-02-4 | 91 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF092217\
Data File : BF098722.D
Acq On : 23 Sep 2017 3:24
Operator : SJ/JU
Sample : I5340-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** LT-TS-002

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

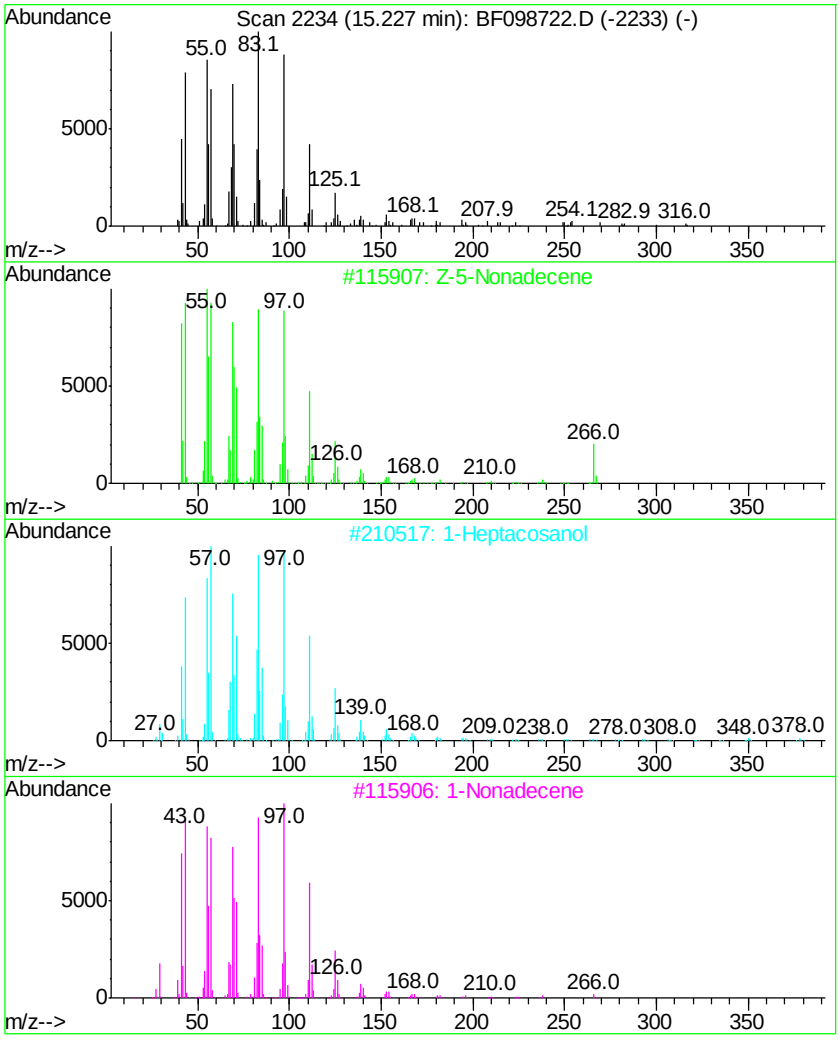
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

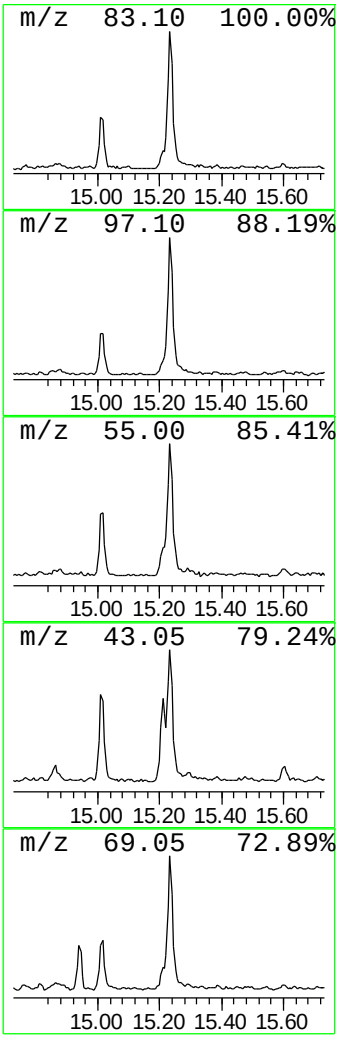
**********

Peak Number 11 Z-5-Nonadecene Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.23 | 14.83 ng | 542270 | Perylene-d12 | 15.59 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Z-5-Nonadecene | 266 | C19H38 | 1000131-11-8 | 91 |
| 2 | 1-Heptacosanol | 396 | C27H56O | 002004-39-9 | 90 |
| 3 | 1-Nonadecene | 266 | C19H38 | 018435-45-5 | 89 |
| 4 | 1-Hexadecanol | 242 | C16H34O | 036653-82-4 | 74 |
| 5 | n-Heptadecanol-1 | 256 | C17H36O | 001454-85-9 | 70 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF092217\
Data File : BF098722.D
Acq On : 23 Sep 2017 3:24
Operator : SJ/JU
Sample : I5340-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** LT-TS-002

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

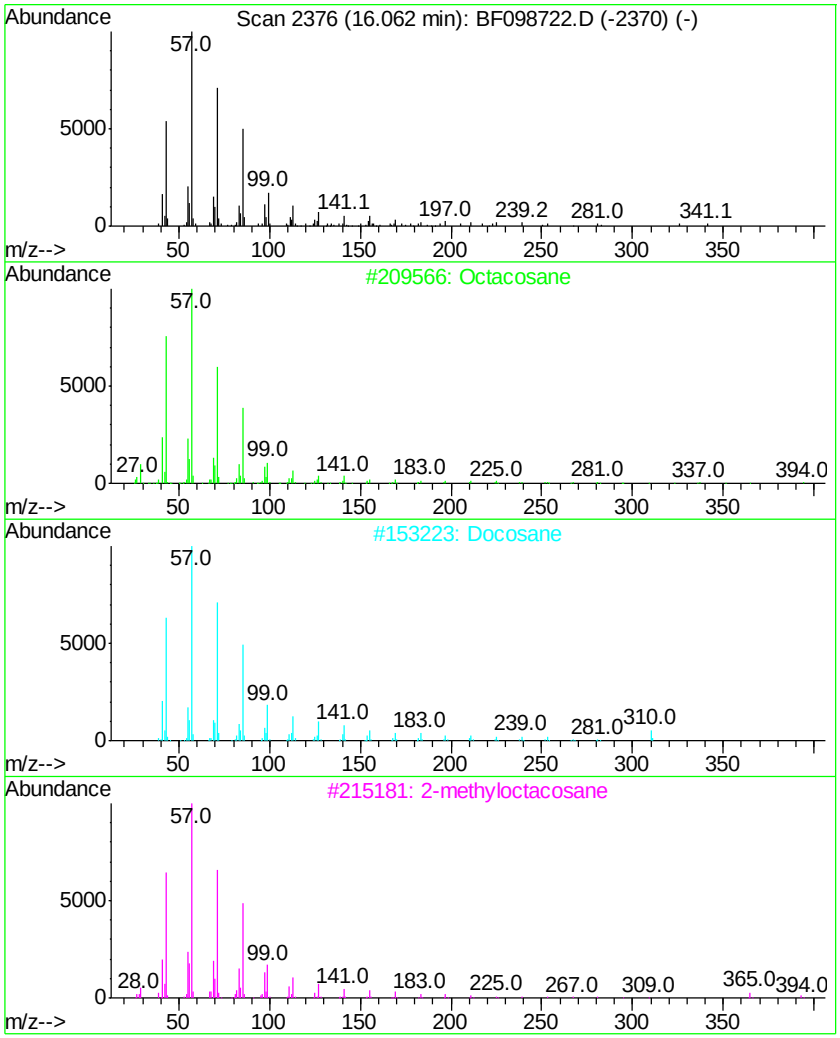
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

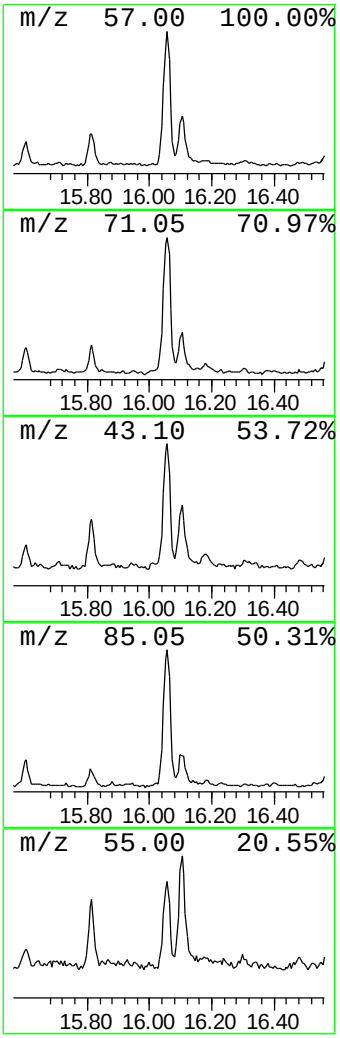
**********

Peak Number 13 Octacosane Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.06 | 8.24 ng | 301480 | Perylene-d12 | 15.59 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octacosane | 394 | C28H58 | 000630-02-4 | 91 |
| 2 | Docosane | 310 | C22H46 | 000629-97-0 | 91 |
| 3 | 2-methyloctacosane | 408 | C29H60 | 1000376-72-8 | 91 |
| 4 | Heneicosane | 296 | C21H44 | 000629-94-7 | 91 |
| 5 | Docosane, 11-butyl- | 366 | C26H54 | 013475-76-8 | 91 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF092217\
Data File : BF098722.D
Acq On : 23 Sep 2017 3:24
Operator : SJ/JU
Sample : I5340-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** LT-TS-002

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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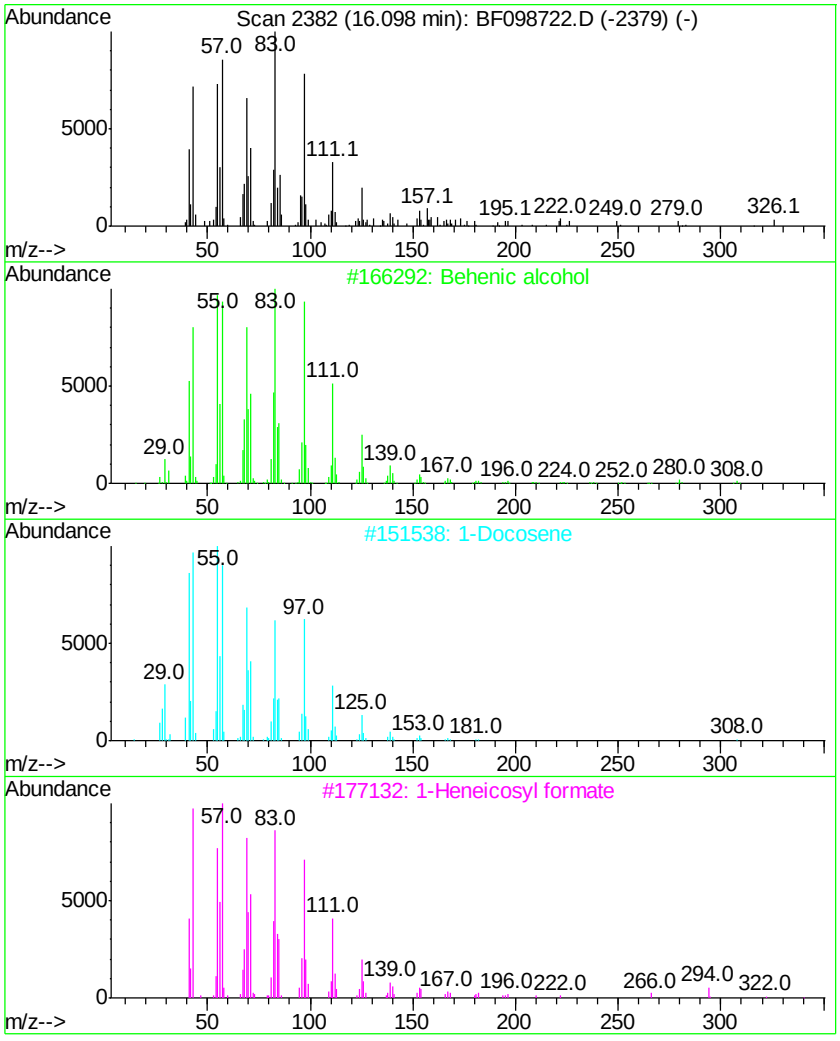
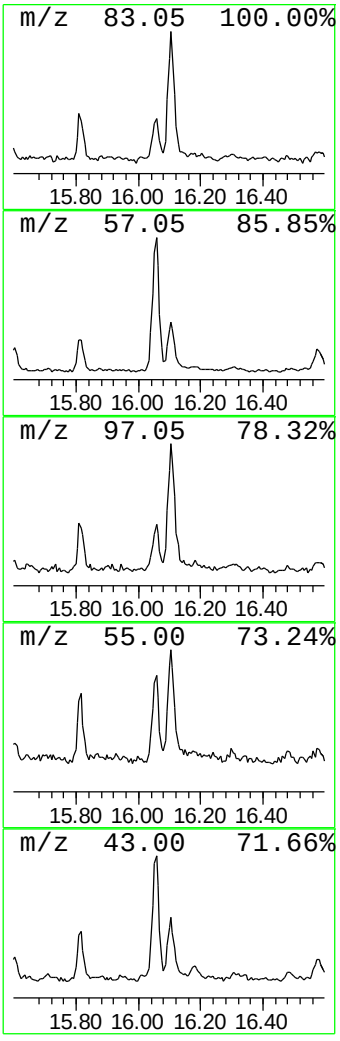
Peak Number 14 Behenic alcohol Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.10 | 6.20 ng | 226600 | Perylene-d12 | 15.59 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Behenic alcohol | 326 | C22H46O | 000661-19-8 | 93 |
| 2 | 1-Docosene | 308 | C22H44 | 001599-67-3 | 87 |
| 3 | 1-Heneicosyl formate | 340 | C22H44O2 | 077899-03-7 | 70 |
| 4 | n-Tetracosanol-1 | 354 | C24H50O | 000506-51-4 | 70 |
| 5 | Heptacosyl acetate | 438 | C29H58O2 | 1000351-78-2 | 64 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092217\
Data File : BF098722.D
Acq On : 23 Sep 2017 3:24
Operator : SJ/JU
Sample : I5340-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** LT-TS-002

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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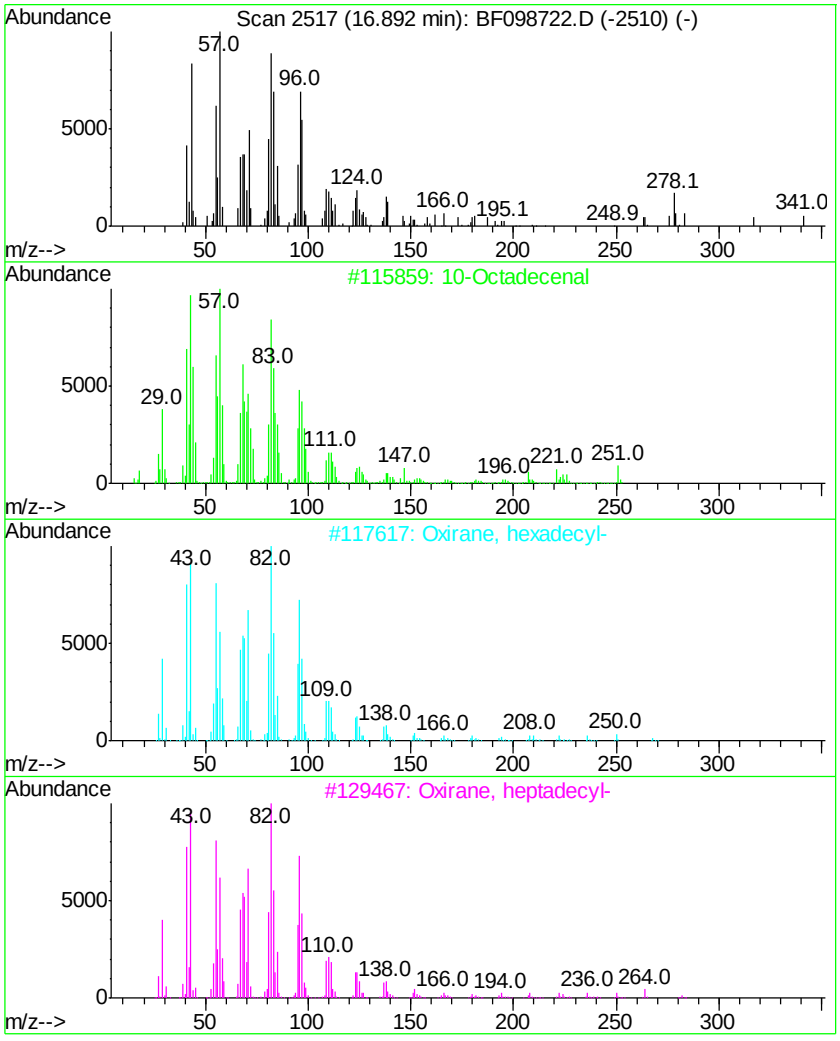
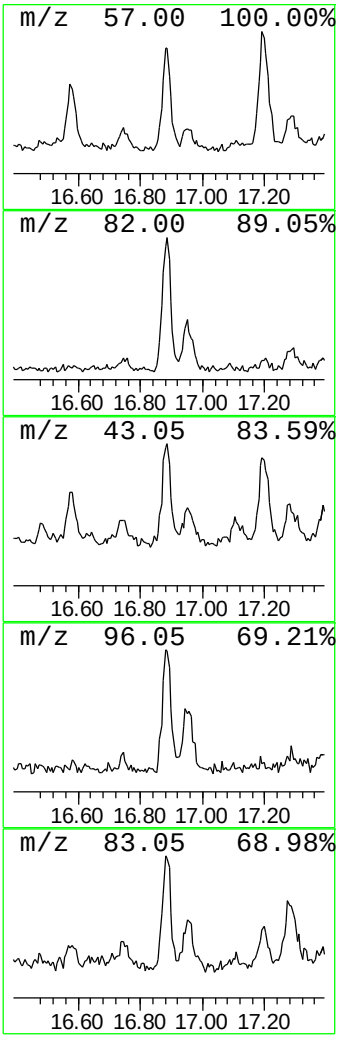
Peak Number 15 10-Octadecenal Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.89 | 5.51 ng | 201385 | Perylene-d12 | 15.59 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 10-Octadecenal | 266 | C18H34O | 056554-92-8 | 90 |
| 2 | Oxirane, hexadecyl- | 268 | C18H36O | 007390-81-0 | 68 |
| 3 | Oxirane, heptadecyl- | 282 | C19H38O | 067860-04-2 | 68 |
| 4 | Octadecanal | 268 | C18H36O | 000638-66-4 | 64 |
| 5 | 1,22-Docosanediol | 342 | C22H46O2 | 022513-81-1 | 46 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF092217\
Data File : BF098722.D
Acq On : 23 Sep 2017 3:24
Operator : SJ/JU
Sample : I5340-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** LT-TS-002

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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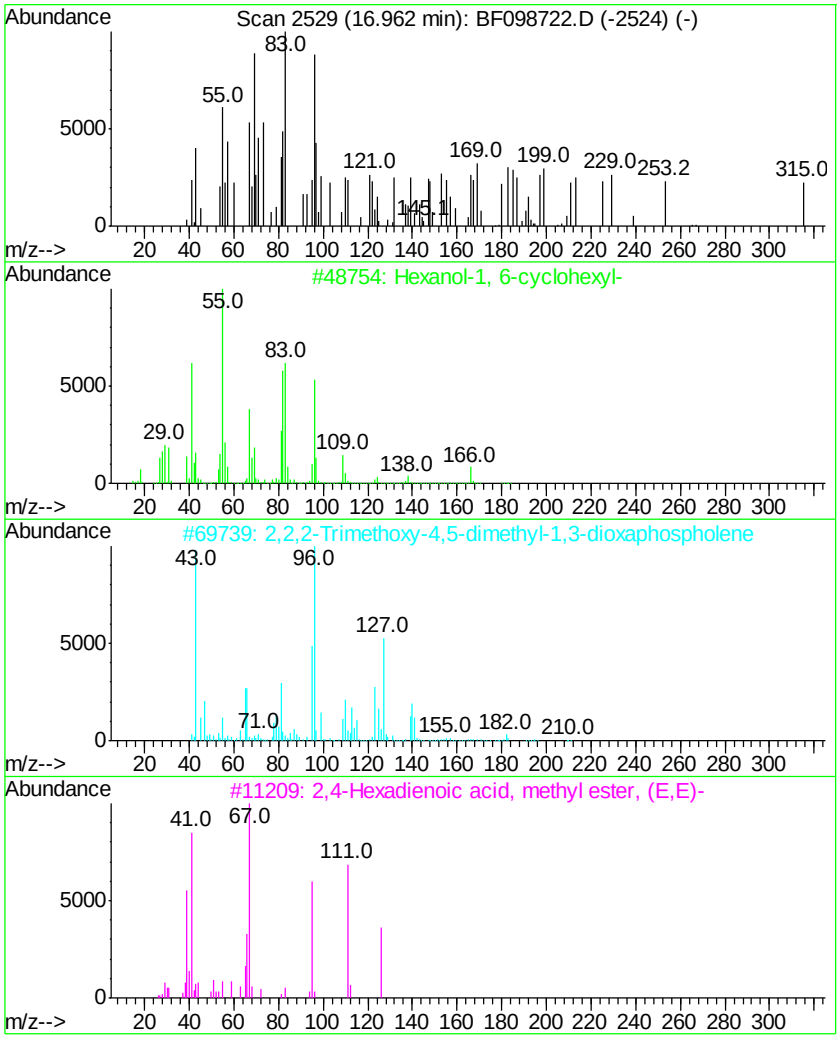
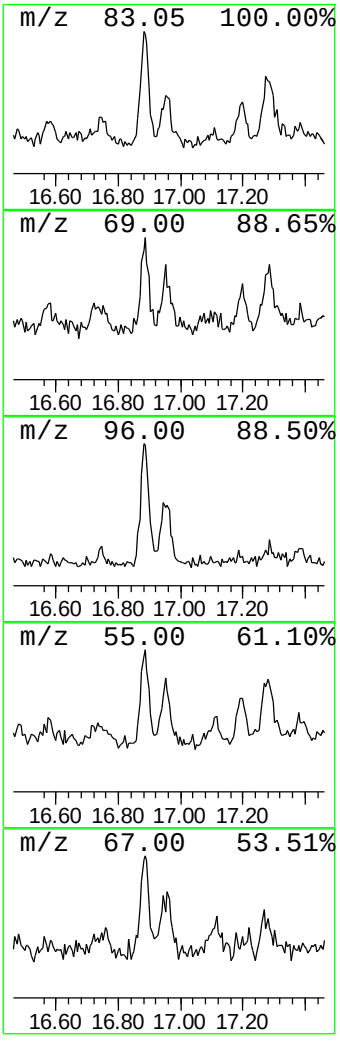
Peak Number 16 unknown16.96 Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.96 | 3.13 ng | 114352 | Perylene-d12 | 15.59 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexanol-1, 6-cyclohexyl- | 184 | C12H24O | 004354-58-9 | 27 |
| 2 | 2,2,2-Trimethoxy-4,5-dimethyl-1,... | 210 | C7H15O5P | 001665-79-8 | 16 |
| 3 | 2,4-Hexadienoic acid, methyl est... | 126 | C7H10O2 | 000689-89-4 | 11 |
| 4 | 1-Cyclopentene-1-carboxylic acid... | 126 | C7H10O2 | 025662-28-6 | 11 |
| 5 | 1-Cyclopentenylphenylmethane | 158 | C12H14 | 015507-35-4 | 10 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF092217\
Data File : BF098722.D
Acq On : 23 Sep 2017 3:24
Operator : SJ/JU
Sample : I5340-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** LT-TS-002

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

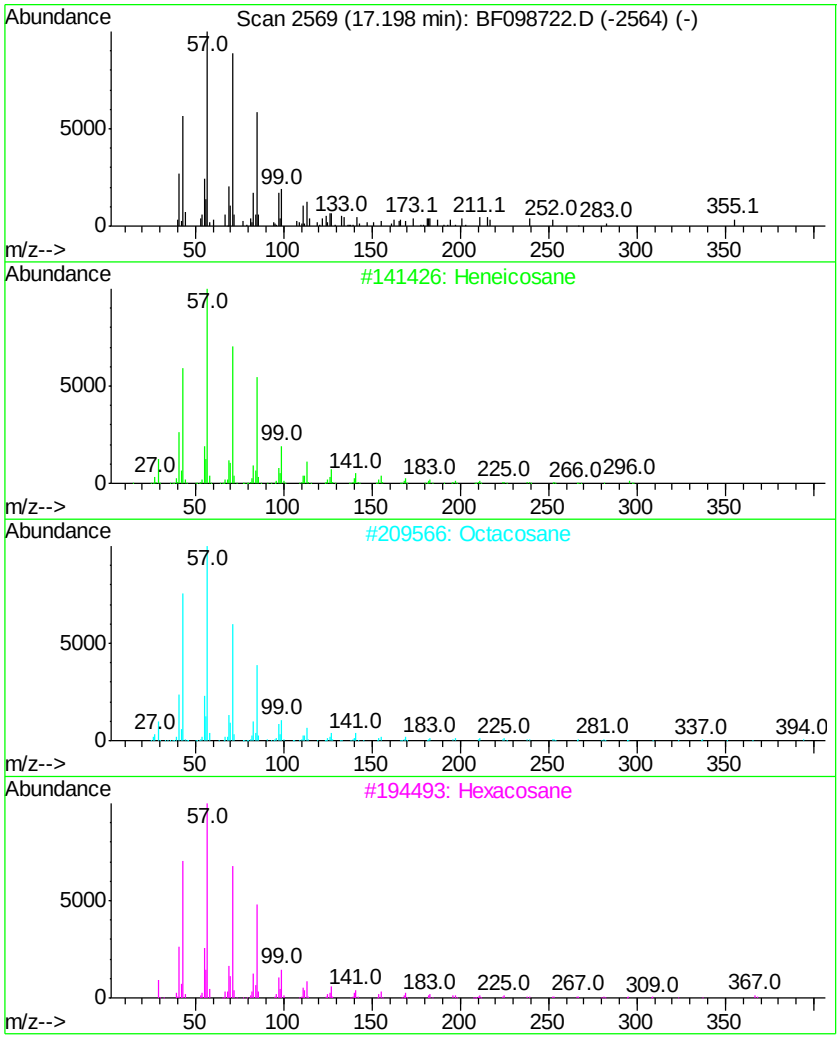
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

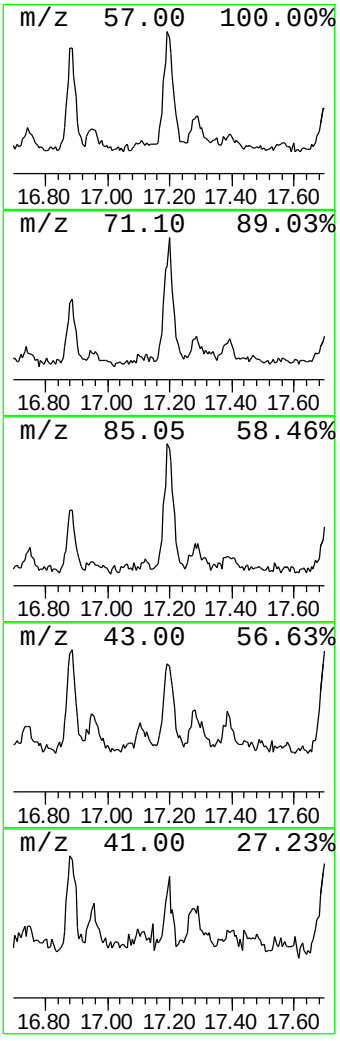
**********

Peak Number 17 Heneicosane Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.20 | 3.54 ng | 129621 | Perylene-d12 | 15.59 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heneicosane | 296 | C21H44 | 000629-94-7 | 86 |
| 2 | Octacosane | 394 | C28H58 | 000630-02-4 | 86 |
| 3 | Hexacosane | 366 | C26H54 | 000630-01-3 | 86 |
| 4 | Tetratetracontane | 619 | C44H90 | 007098-22-8 | 83 |
| 5 | Tetracosane | 338 | C24H50 | 000646-31-1 | 80 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF092217\
Data File : BF098722.D
Acq On : 23 Sep 2017 3:24
Operator : SJ/JU
Sample : I5340-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** LT-TS-002

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

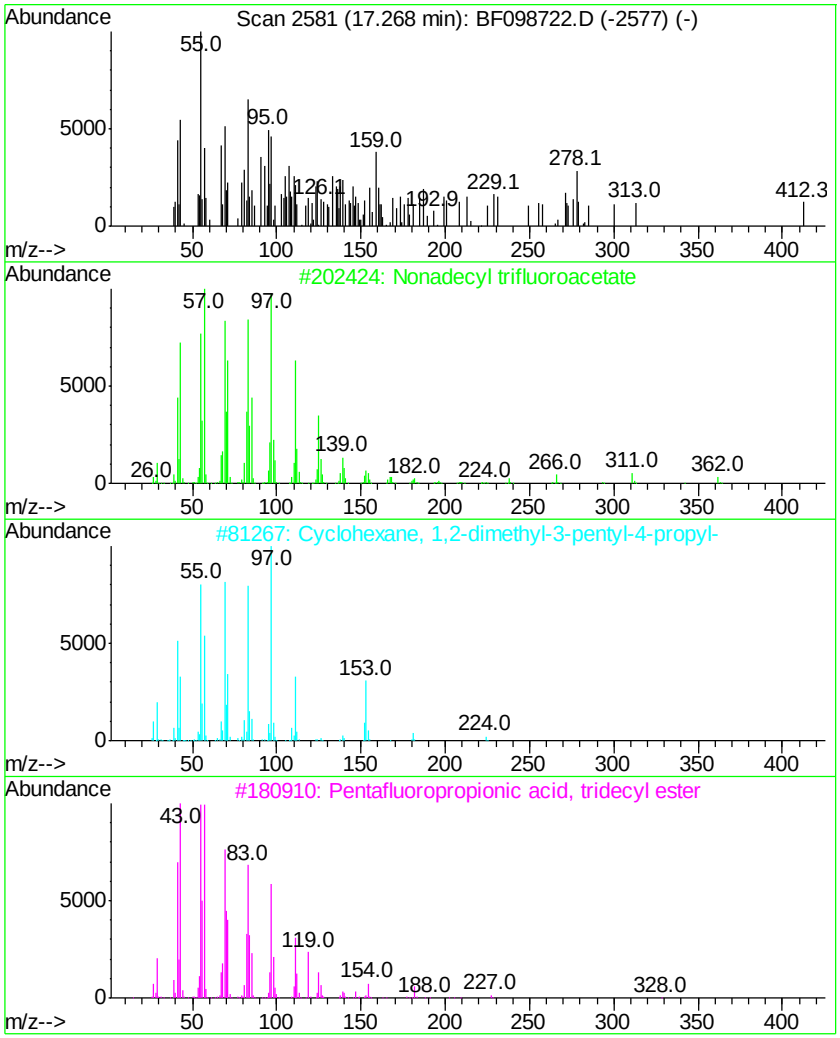
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

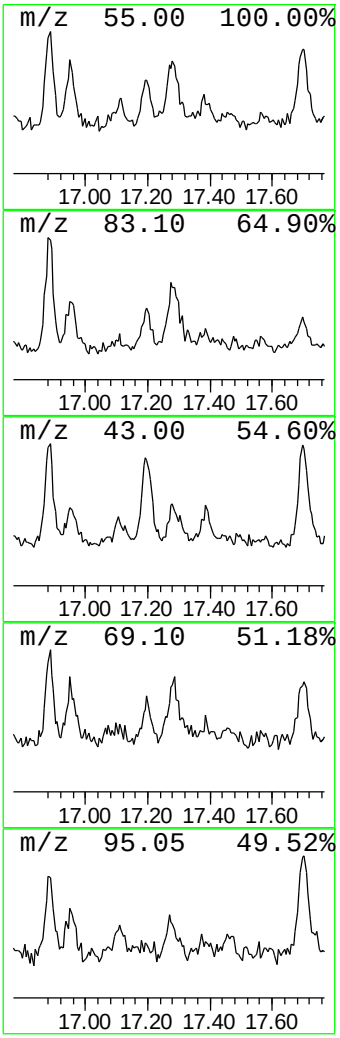
**********

Peak Number 18 unknown17.27 Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.27 | 4.35 ng | 159133 | Perylene-d12 | 15.59 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonadecyl trifluoroacetate | 380 | C21H39F3O2 | 1000351-76-3 | 49 |
| 2 | Cyclohexane, 1,2-dimethyl-3-pent... | 224 | C16H32 | 062376-17-4 | 47 |
| 3 | Pentafluoropropionic acid, tride... | 346 | C16H27F5O2 | 959261-22-4 | 45 |
| 4 | 2(5H)-Furanone, 5,5-dimethyl- | 112 | C6H8O2 | 020019-64-1 | 43 |
| 5 | Bromoacetic acid, octadecyl ester | 390 | C20H39BrO2 | 018992-03-5 | 43 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF092217\
Data File : BF098722.D
Acq On : 23 Sep 2017 3:24
Operator : SJ/JU
Sample : I5340-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** LT-TS-002

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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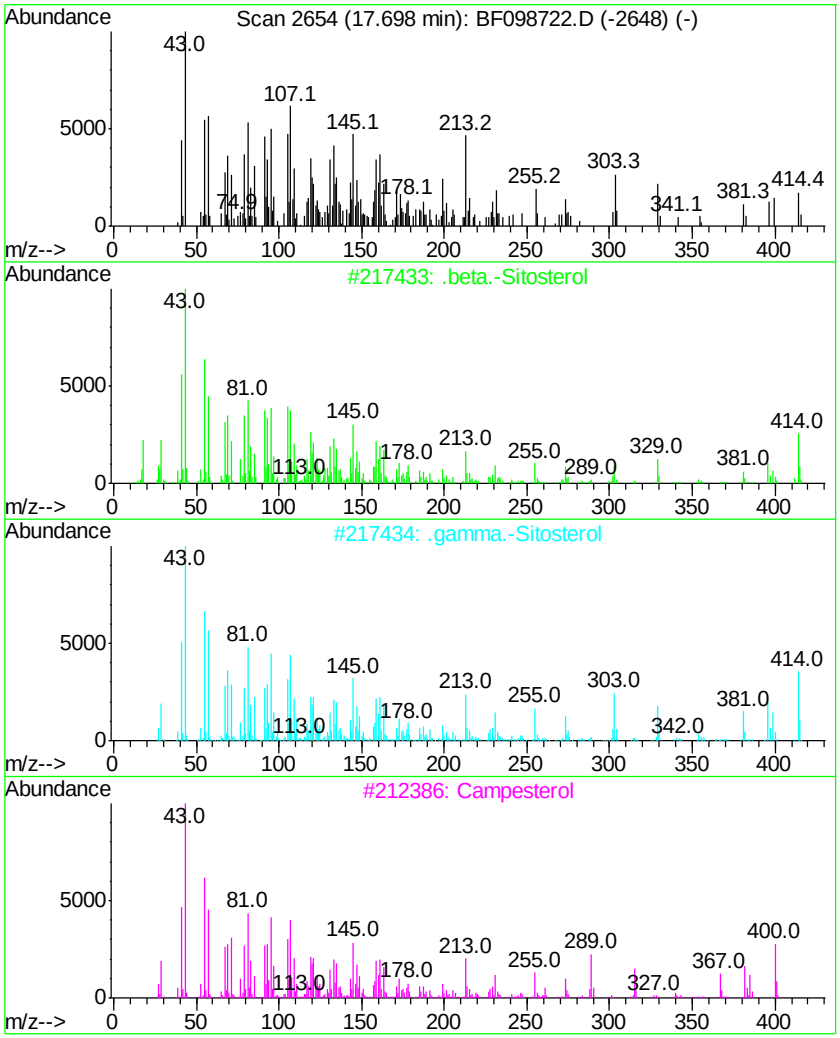
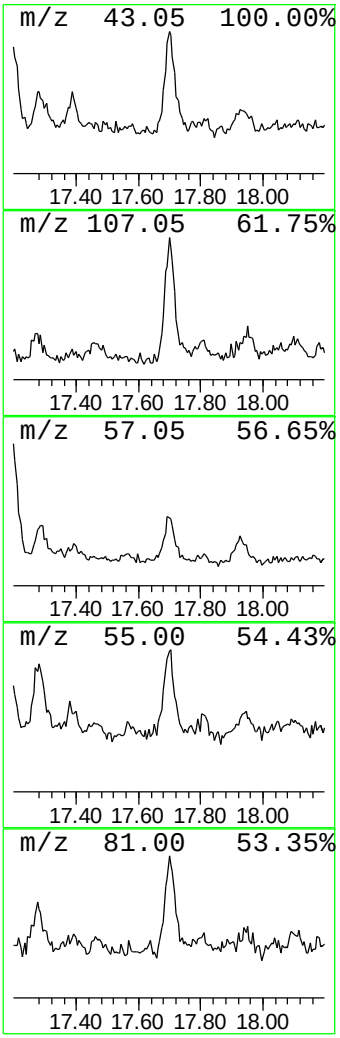
Peak Number 19 .beta.-Sitosterol Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.70 | 9.88 ng | 361270 | Perylene-d12 | 15.59 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | .beta.-Sitosterol | 414 | C29H50O | 000083-46-5 | 99 |
| 2 | .gamma.-Sitosterol | 414 | C29H50O | 000083-47-6 | 99 |
| 3 | Campesterol | 400 | C28H48O | 000474-62-4 | 53 |
| 4 | Ergost-5-en-3-ol, (3.beta.)- | 400 | C28H48O | 004651-51-8 | 52 |
| 5 | Kauren-18-ol, acetate, (4.beta.)- | 330 | C22H34O2 | 072150-74-4 | 49 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092217\
Data File : BF098722.D
Acq On : 23 Sep 2017 3:24
Operator : SJ/JU
Sample : I5340-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** LT-TS-002

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

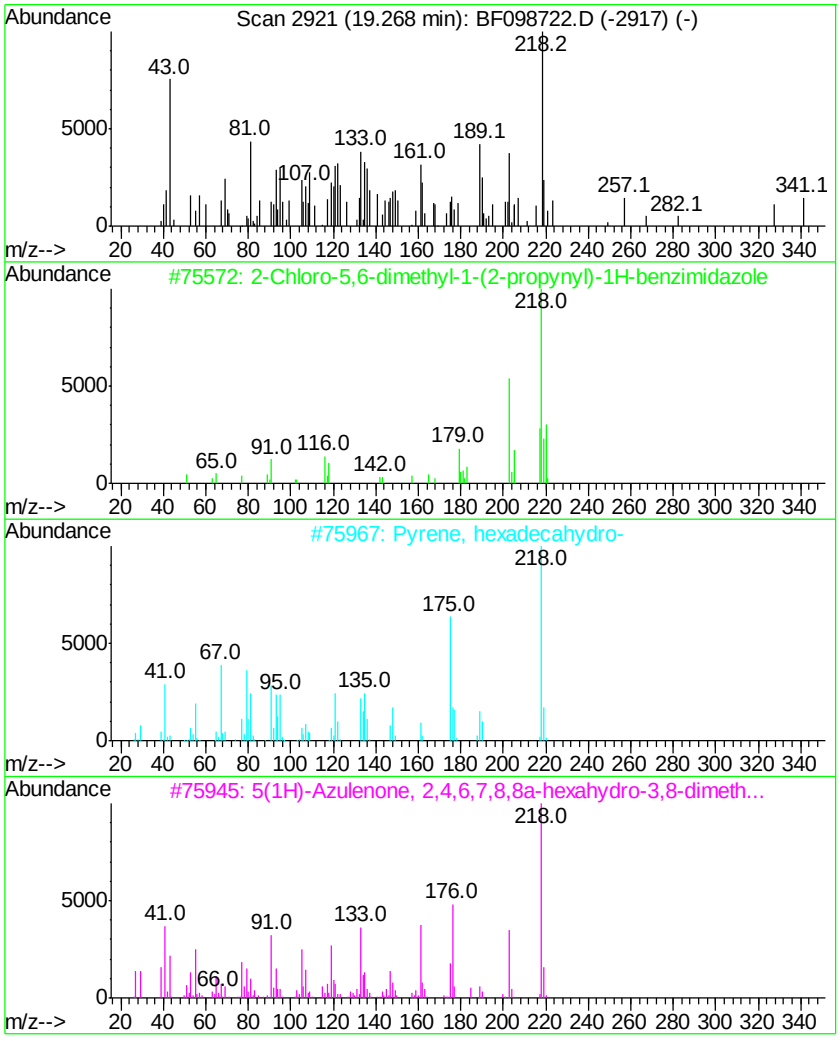
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

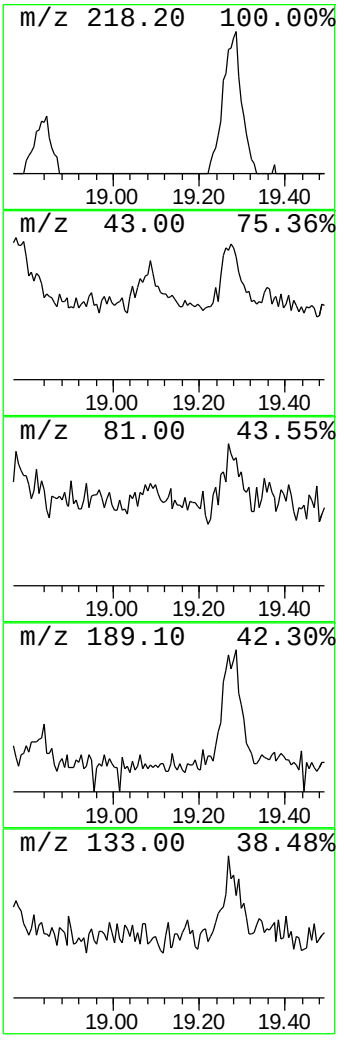
**********

Peak Number 20 unknown19.27 Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.27 | 3.27 ng | 119718 | Perylene-d12 | 15.59 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Chloro-5,6-dimethyl-1-(2-propy... | 218 | C12H11ClN2 | 080276-20-6 | 46 |
| 2 | Pyrene, hexadecahydro- | 218 | C16H26 | 002435-85-0 | 46 |
| 3 | 5(1H)-Azulenone, 2,4,6,7,8,8a-he... | 218 | C15H22O | 006754-66-1 | 46 |
| 4 | 1H-Phenanthro[9,10-c]pyrazole | 218 | C15H10N2 | 078529-79-0 | 38 |
| 5 | 4H-Benz[de]anthracene, 5,6-dihydro- | 218 | C17H14 | 004389-09-7 | 38 |



# Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF092217\
Data File : BF098722.D
Acq On : 23 Sep 2017 3:24
Operator : SJ/JU
Sample : I5340-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** LT-TS-002

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT 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 |
| Butane, 2-methoxy... | 2.25 | 4.1 | ng | 175744 | 1 | 6.93 | 861134 | 20.0 |
| 2-Pentanone, 4-hy... | 5.16 | 13.8 | ng | 594872 | 1 | 6.93 | 861134 | 20.0 |
| unknown6.70 | 6.70 | 76.1 | ng | 3277640 | 1 | 6.93 | 861134 | 20.0 |
| n-Hexadecanoic acid | 11.97 | 8.0 | ng | 355596 | 4 | 11.45 | 892196 | 20.0 |
| Octadecanoic acid | 12.75 | 3.0 | ng | 131877 | 4 | 11.45 | 892196 | 20.0 |
| 1-Heneicosanol | 13.92 | 7.2 | ng | 316794 | 5 | 14.09 | 877603 | 20.0 |
| Oxirane, heptadecyl- | 15.02 | 11.1 | ng | 404921 | 6 | 15.59 | 731483 | 20.0 |
| Hentriacontane | 15.21 | 7.1 | ng | 259875 | 6 | 15.59 | 731483 | 20.0 |
| Z-5-Nonadecene | 15.23 | 14.8 | ng | 542270 | 6 | 15.59 | 731483 | 20.0 |
| Octacosane | 16.06 | 8.2 | ng | 301480 | 6 | 15.59 | 731483 | 20.0 |
| Behenic alcohol | 16.10 | 6.2 | ng | 226600 | 6 | 15.59 | 731483 | 20.0 |
| 10-Octadecenal | 16.89 | 5.5 | ng | 201385 | 6 | 15.59 | 731483 | 20.0 |
| unknown16.96 | 16.96 | 3.1 | ng | 114352 | 6 | 15.59 | 731483 | 20.0 |
| Heneicosane | 17.20 | 3.5 | ng | 129621 | 6 | 15.59 | 731483 | 20.0 |
| unknown17.27 | 17.27 | 4.3 | ng | 159133 | 6 | 15.59 | 731483 | 20.0 |
| .beta.-Sitosterol | 17.70 | 9.9 | ng | 361270 | 6 | 15.59 | 731483 | 20.0 |
| unknown19.27 | 19.27 | 3.3 | ng | 119718 | 6 | 15.59 | 731483 | 20.0 |