LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052016\
Data File : BF087266.D
Acq On : 21 May 2016 12:02
Operator : UM/SJ
Sample : H3169-16
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-24-COMP

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-BF051716.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 | 1.701 | 8 | 10 | 46 | rVB | 2397311 | 4642924 | 99.90% | 10.941% |
| 2 | 4.684 | 269 | 271 | 286 | rBV | 281568 | 562747 | 12.11% | 1.326% |
| 3 | 5.141 | 309 | 311 | 329 | rBV | 3244940 | 3726619 | 80.19% | 8.782% |
| 4 | 6.227 | 403 | 406 | 408 | rBV | 3729088 | 3862461 | 83.11% | 9.102% |
| 5 | 6.330 | 413 | 415 | 417 | rBV | 3975638 | 4106566 | 88.36% | 9.677% |
| 6 | 6.559 | 433 | 435 | 441 | rVB | 692326 | 885688 | 19.06% | 2.087% |
| 7 | 6.707 | 446 | 448 | 451 | rBV | 3025253 | 2814119 | 60.55% | 6.632% |
| 8 | 7.130 | 483 | 485 | 488 | rBV | 2336663 | 2426732 | 52.22% | 5.719% |
| 9 | 7.290 | 497 | 499 | 502 | rBV | 29460 | 54351 | 1.17% | 0.128% |
| 10 | 7.839 | 545 | 547 | 550 | rBV | 1052367 | 1210438 | 26.04% | 2.852% |
| 11 | 8.925 | 639 | 642 | 644 | rBV | 4727123 | 4647490 | 100.00% | 10.952% |
| 12 | 9.325 | 675 | 677 | 681 | rBV | 744301 | 640840 | 13.79% | 1.510% |
| 13 | 9.530 | 693 | 695 | 698 | rBV | 109644 | 117843 | 2.54% | 0.278% |
| 14 | 9.588 | 698 | 700 | 703 | rVV | 1575897 | 1397672 | 30.07% | 3.294% |
| 15 | 10.033 | 737 | 739 | 741 | rVB | 206561 | 167178 | 3.60% | 0.394% |
| 16 | 10.250 | 755 | 758 | 761 | rBV | 66946 | 107809 | 2.32% | 0.254% |
| 17 | 10.376 | 767 | 769 | 772 | rBV | 2496288 | 2610593 | 56.17% | 6.152% |
| 18 | 10.502 | 778 | 780 | 787 | rVB | 238503 | 295436 | 6.36% | 0.696% |
| 19 | 10.696 | 795 | 797 | 799 | rBV | 31054 | 48479 | 1.04% | 0.114% |
| 20 | 10.948 | 817 | 819 | 820 | rBV | 150976 | 132988 | 2.86% | 0.313% |
| 21 | 10.971 | 820 | 821 | 825 | rVV | 42041 | 47477 | 1.02% | 0.112% |
| 22 | 11.062 | 827 | 829 | 832 | rVV | 1335792 | 1339337 | 28.82% | 3.156% |
| 23 | 11.131 | 832 | 835 | 839 | rVB | 23256 | 56419 | 1.21% | 0.133% |
| 24 | 11.371 | 854 | 856 | 858 | rVB | 73025 | 58281 | 1.25% | 0.137% |
| 25 | 11.611 | 875 | 877 | 885 | rBV2 | 29151 | 62499 | 1.34% | 0.147% |
| 26 | 12.479 | 951 | 953 | 956 | rBV | 108123 | 94275 | 2.03% | 0.222% |
| 27 | 12.651 | 965 | 968 | 970 | rBV | 4117014 | 4130988 | 88.89% | 9.735% |
| 28 | 13.177 | 1012 | 1014 | 1016 | rBV | 42591 | 48769 | 1.05% | 0.115% |
| 29 | 13.577 | 1043 | 1049 | 1055 | rBV2 | 43227 | 143015 | 3.08% | 0.337% |
| 30 | 13.691 | 1055 | 1059 | 1066 | rVB | 1040515 | 1179236 | 25.37% | 2.779% |
| 31 | 14.525 | 1129 | 1132 | 1134 | rBV | 93242 | 84663 | 1.82% | 0.200% |
| 32 | 15.040 | 1175 | 1177 | 1187 | rBV | 564567 | 730626 | 15.72% | 1.722% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052016\
Data File : BF087266.D
Acq On : 21 May 2016 12:02
Operator : UM/SJ
Sample : H3169-16
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SB-24-COMP

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-BF051716.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

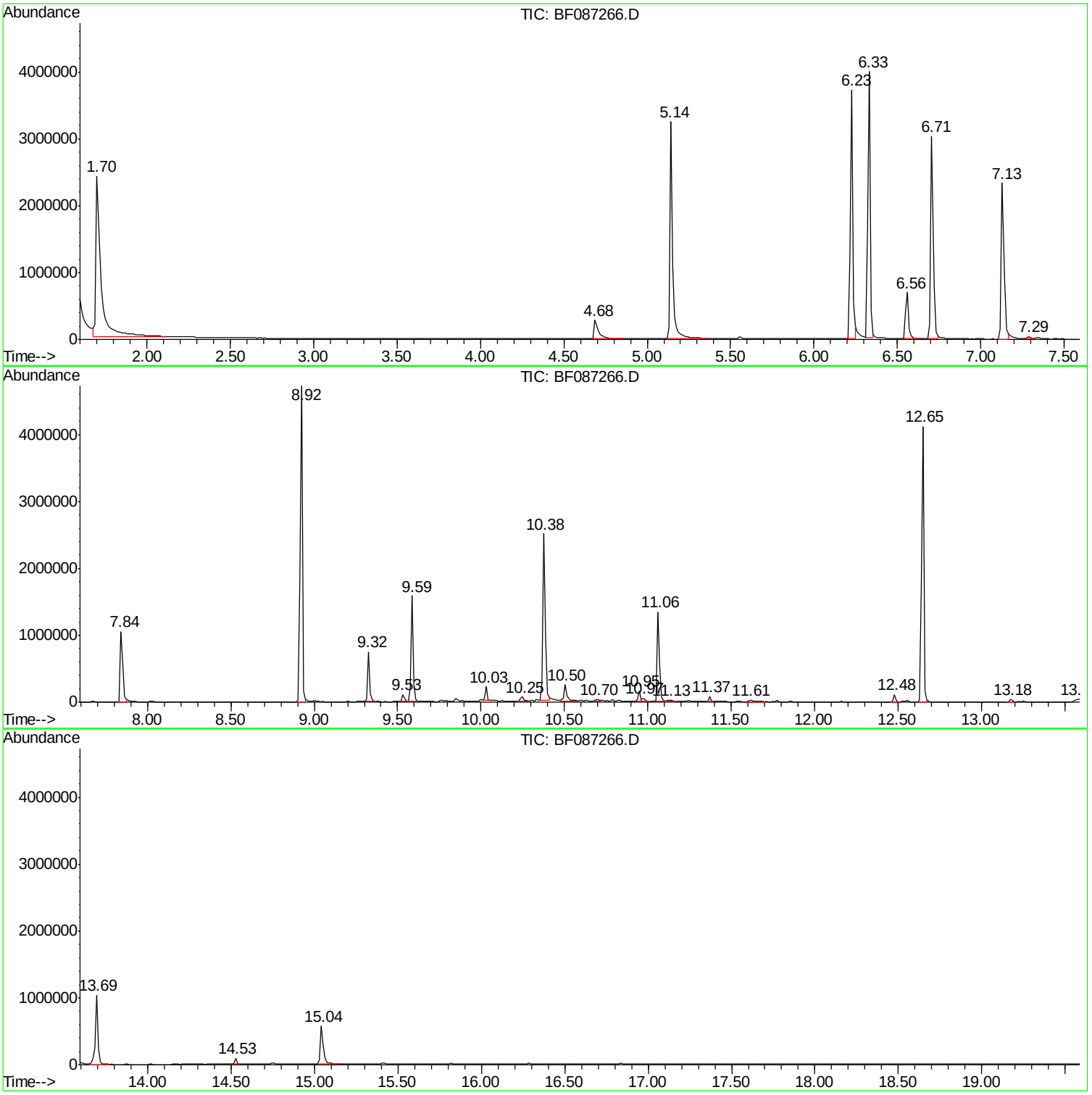
Sum of corrected areas: 42434558

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052016\
Data File : BF087266.D
Acq On : 21 May 2016 12:02
Operator : UM/SJ
Sample : H3169-16
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SB-24-COMP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF051716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052016\
Data File : BF087266.D
Acq On : 21 May 2016 12:02
Operator : UM/SJ
Sample : H3169-16
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-24-COMP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF051716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

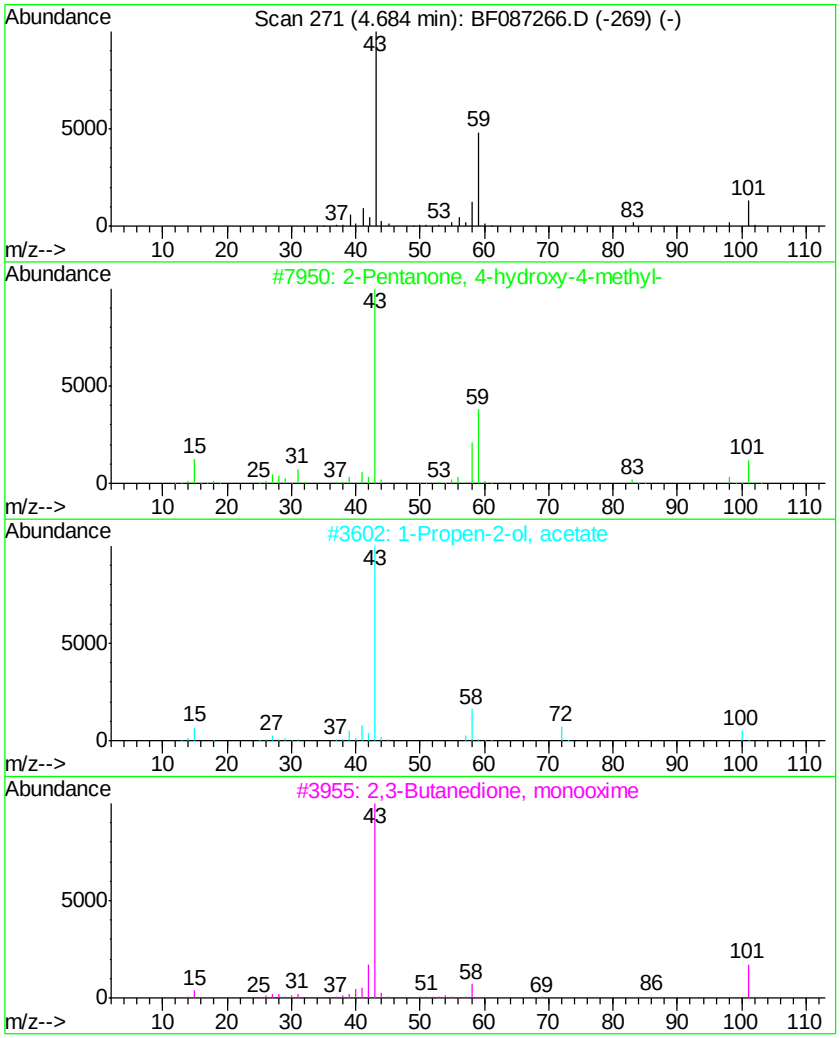
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

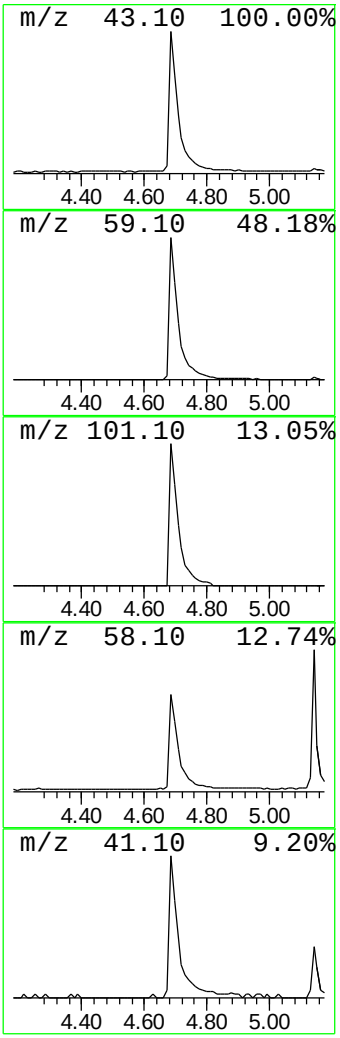
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.68 | 12.71 ng | 562747 | 1,4-Dichlorobenzene-d4 | 6.56 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 50 |
| 2 | 1-Propen-2-ol, acetate | 100 | C5H8O2 | 000108-22-5 | 10 |
| 3 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 9 |
| 4 | Butane | 58 | C4H10 | 000106-97-8 | 9 |
| 5 | Diacetamide | 101 | C4H7NO2 | 000625-77-4 | 9 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052016\
Data File : BF087266.D
Acq On : 21 May 2016 12:02
Operator : UM/SJ
Sample : H3169-16
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-24-COMP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF051716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

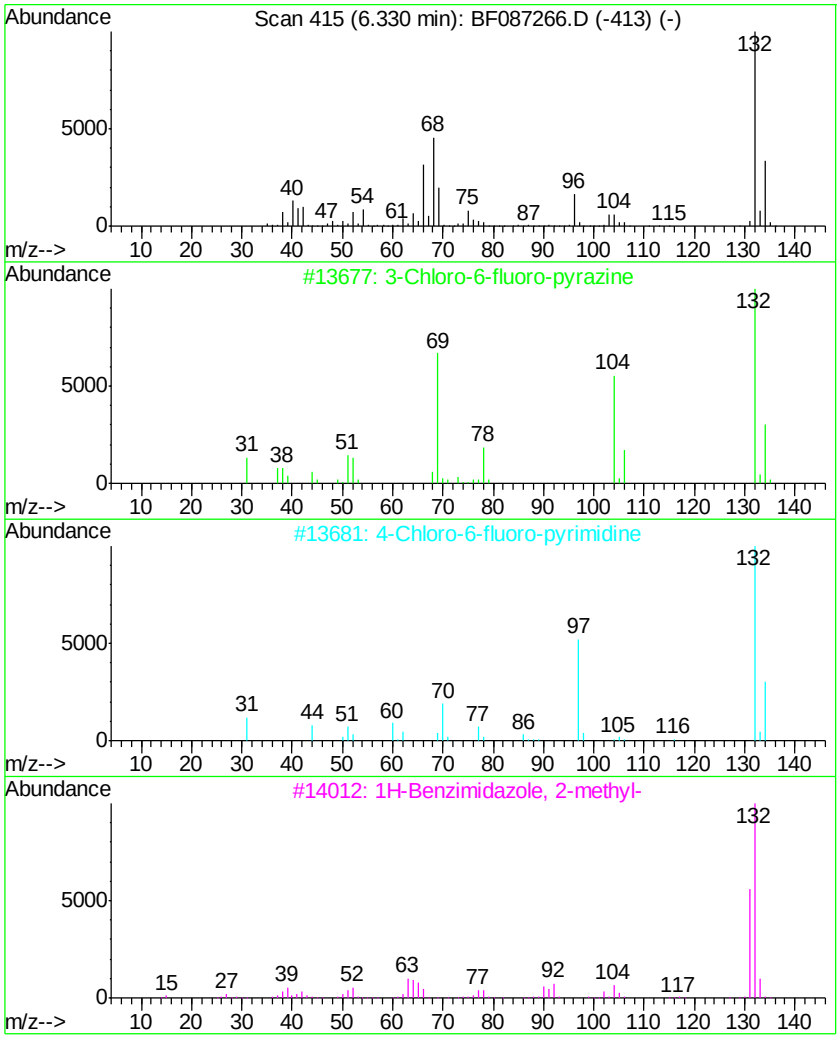
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

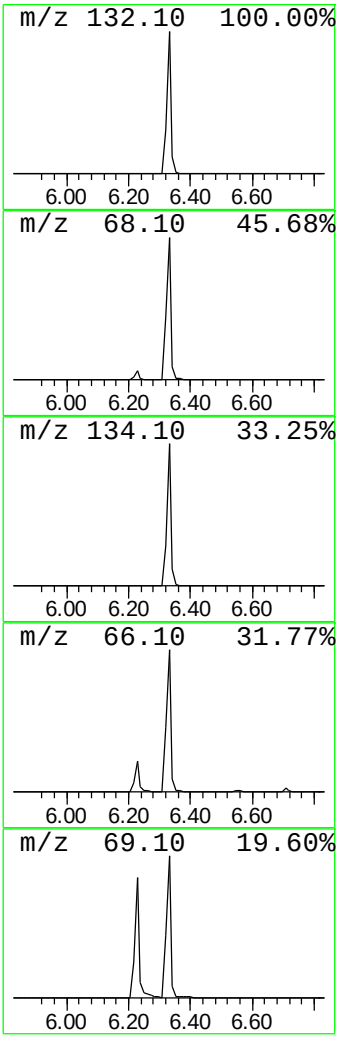
**********

Peak Number 3 unknown6.33 Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.33 | 92.73 ng | 4106570 | 1,4-Dichlorobenzene-d4 | 6.56 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 27 |
| 2 | 4-Chloro-6-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-01-6 | 27 |
| 3 | 1H-Benzimidazole, 2-methyl- | 132 | C8H8N2 | 000615-15-6 | 22 |
| 4 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 16 |
| 5 | (5-METHYL-2-PYRIDYL)ACETONITRILE | 132 | C8H8N2 | 1000241-93-9 | 10 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052016\
Data File : BF087266.D
Acq On : 21 May 2016 12:02
Operator : UM/SJ
Sample : H3169-16
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-24-COMP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF051716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

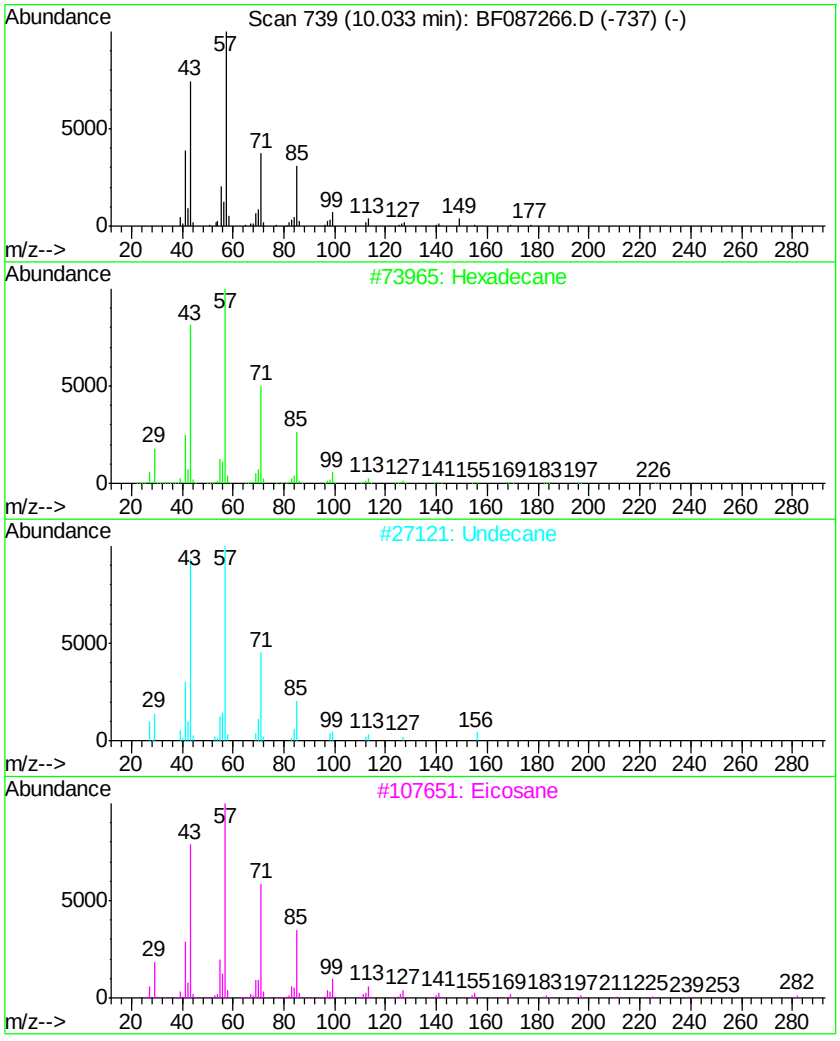
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

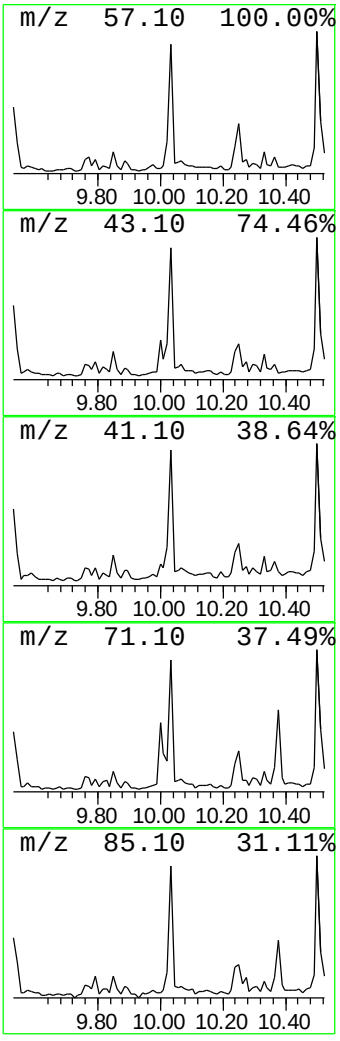
**********

Peak Number 5 Hexadecane Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.03 | 2.39 ng | 167178 | Acenaphthene-d10 | 9.59 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecane | 226 | C16H34 | 000544-76-3 | 90 |
| 2 | Undecane | 156 | C11H24 | 001120-21-4 | 80 |
| 3 | Eicosane | 282 | C20H42 | 000112-95-8 | 80 |
| 4 | 1-Iodoundecane | 282 | C11H23I | 004282-44-4 | 72 |
| 5 | Octadecane | 254 | C18H38 | 000593-45-3 | 72 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052016\
Data File : BF087266.D
Acq On : 21 May 2016 12:02
Operator : UM/SJ
Sample : H3169-16
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-24-COMP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF051716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

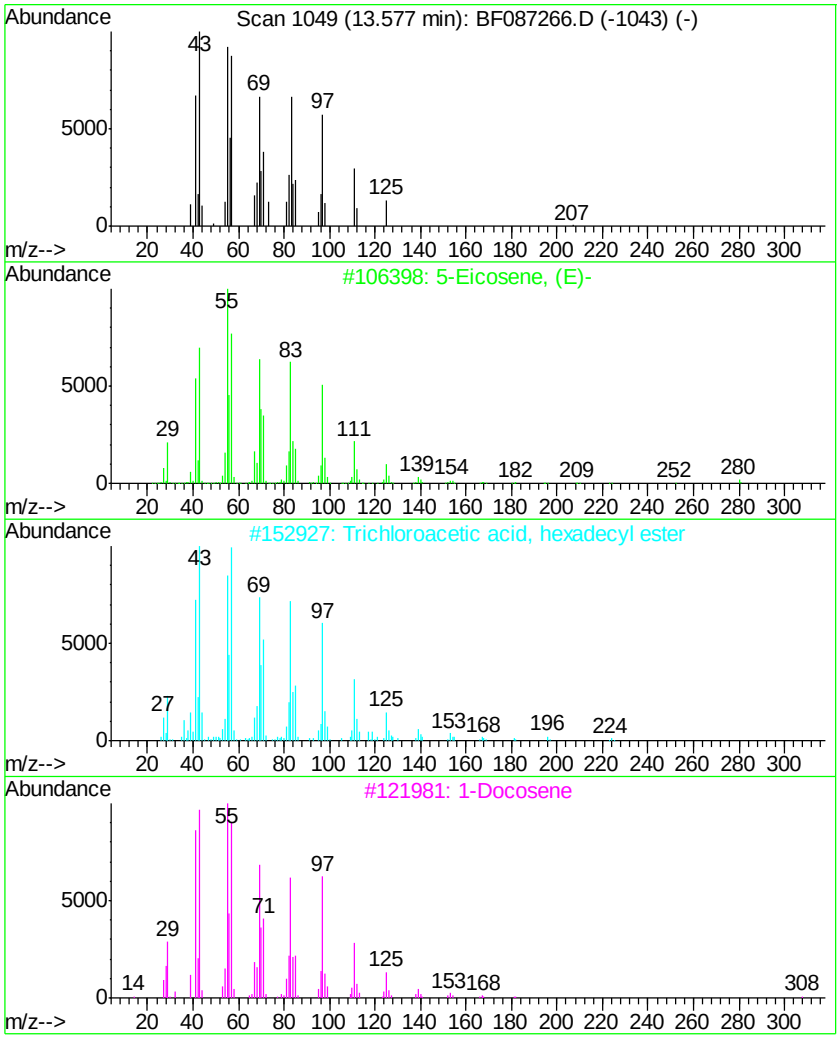
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

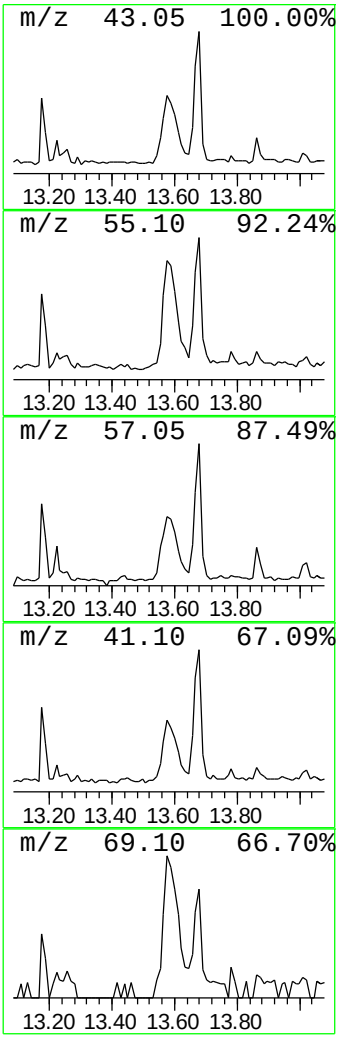
**********

Peak Number 7 5-Eicosene, (E)- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.58 | 2.43 ng | 143015 | Chrysene-d12 | 13.69 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5-Eicosene, (E)- | 280 | C20H40 | 074685-30-6 | 91 |
| 2 | Trichloroacetic acid, hexadecyl ... | 386 | C18H33Cl3O2 | 074339-54-1 | 91 |
| 3 | 1-Docosene | 308 | C22H44 | 001599-67-3 | 91 |
| 4 | Trichloroacetic acid, pentadecyl... | 372 | C17H31Cl3O2 | 074339-53-0 | 91 |
| 5 | 11-Tricosene | 322 | C23H46 | 052078-56-5 | 91 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052016\
Data File : BF087266.D
Acq On : 21 May 2016 12:02
Operator : UM/SJ
Sample : H3169-16
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-24-COMP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF051716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

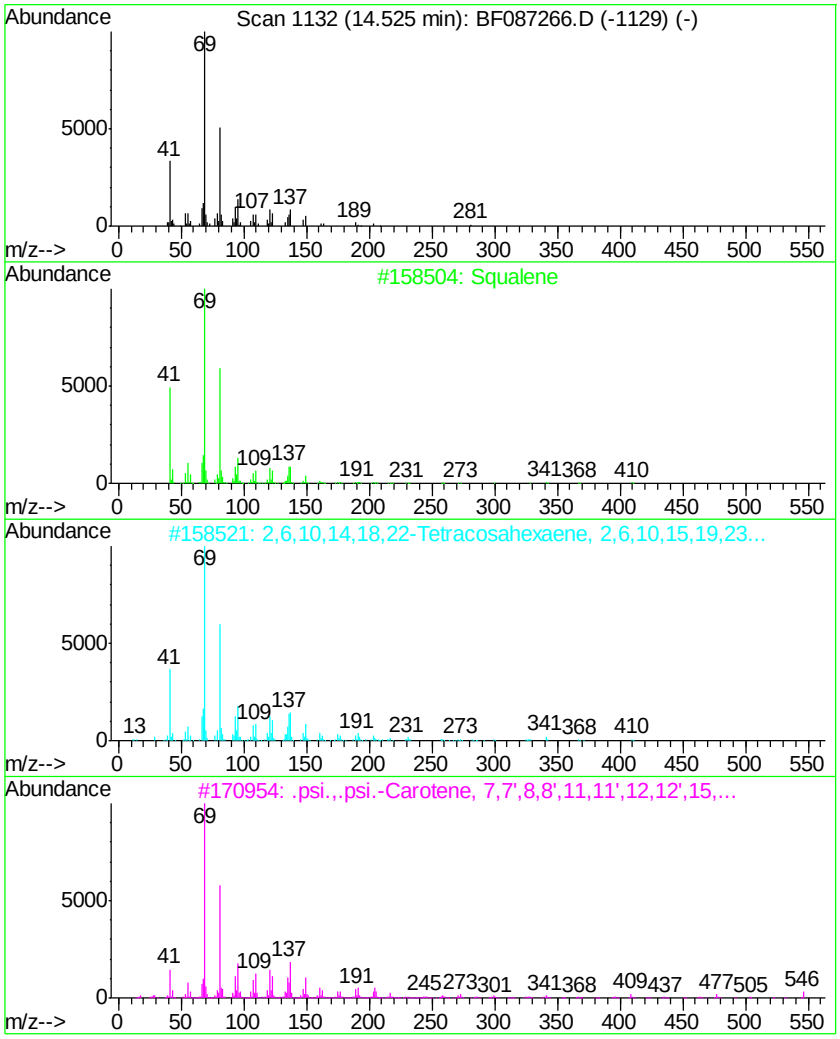
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

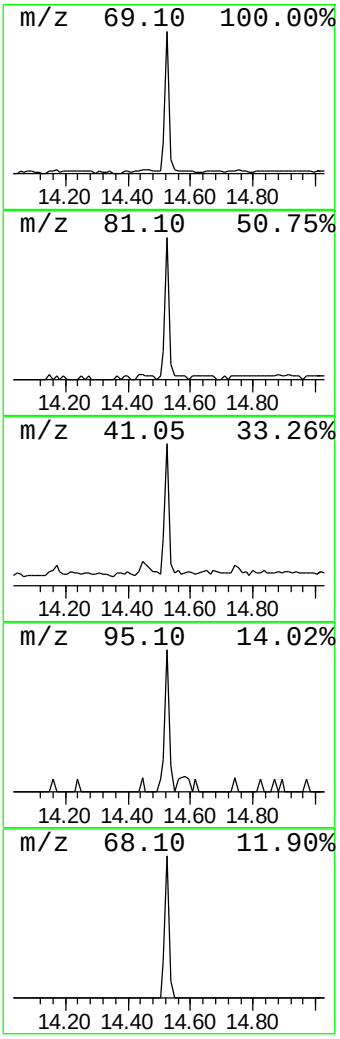
**********

Peak Number 8 Squalene Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.53 | 2.32 ng | 84663 | Perylene-d12 | 15.04 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Squalene | 410 | C30H50 | 007683-64-9 | 91 |
| 2 | 2,6,10,14,18,22-Tetracosahexaene... | 410 | C30H50 | 000111-02-4 | 90 |
| 3 | .psi.,.psi.-Carotene, 7,7',8,8',... | 547 | C40H66 | 000502-62-5 | 83 |
| 4 | Docosa-2,6,10,14,18-pentaen-22-a... | 384 | C27H44O | 1000163-04-7 | 78 |
| 5 | 5,9,13-Pentadecatrien-2-one, 6,1... | 262 | C18H30O | 001117-52-8 | 72 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052016\
Data File : BF087266.D
Acq On : 21 May 2016 12:02
Operator : UM/SJ
Sample : H3169-16
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-24-COMP

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF051716.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... | 4.68 | 12.7 | ng | 562747 | 1 | 6.56 | 885688 | 20.0 |
| unknown6.33 | 6.33 | 92.7 | ng | 4106570 | 1 | 6.56 | 885688 | 20.0 |
| Hexadecane | 10.03 | 2.4 | ng | 167178 | 3 | 9.59 | 1397670 | 20.0 |
| 5-Eicosene, (E)- | 13.58 | 2.4 | ng | 143015 | 5 | 13.69 | 1179240 | 20.0 |
| Squalene | 14.53 | 2.3 | ng | 84663 | 6 | 15.04 | 730626 | 20.0 |