LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080116\
Data File : BF089516.D
Acq On : 1 Aug 2016 17:56
Operator : UM/SJ
Sample : H4285-17
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** AB-SLOPE(0-4)S

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-BF072716.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 | 1.655 | 4 | 6 | 47 | rVB | 831982 | 2219772 | 100.00% | 15.962% |
| 2 | 4.570 | 258 | 261 | 269 | rBV | 198434 | 345404 | 15.56% | 2.484% |
| 3 | 5.050 | 300 | 303 | 321 | rBV | 1060512 | 1297944 | 58.47% | 9.333% |
| 4 | 6.147 | 396 | 399 | 401 | rBV | 1084011 | 1334307 | 60.11% | 9.595% |
| 5 | 6.250 | 406 | 408 | 410 | rBV | 1208044 | 1366458 | 61.56% | 9.826% |
| 6 | 6.479 | 426 | 428 | 439 | rVB | 226886 | 244043 | 10.99% | 1.755% |
| 7 | 6.627 | 439 | 441 | 444 | rBV | 715569 | 895610 | 40.35% | 6.440% |
| 8 | 7.050 | 476 | 478 | 489 | rBV | 639466 | 805055 | 36.27% | 5.789% |
| 9 | 7.759 | 538 | 540 | 543 | rBV | 262214 | 325919 | 14.68% | 2.344% |
| 10 | 8.845 | 632 | 635 | 637 | rBV | 1463136 | 1380073 | 62.17% | 9.924% |
| 11 | 9.245 | 668 | 670 | 674 | rBV | 280970 | 244322 | 11.01% | 1.757% |
| 12 | 9.462 | 686 | 689 | 691 | rBV | 18264 | 22502 | 1.01% | 0.162% |
| 13 | 9.508 | 691 | 693 | 695 | rBV | 424905 | 407353 | 18.35% | 2.929% |
| 14 | 9.965 | 731 | 733 | 734 | rVV | 36531 | 42497 | 1.91% | 0.306% |
| 15 | 10.296 | 760 | 762 | 764 | rBV | 575574 | 695932 | 31.35% | 5.004% |
| 16 | 10.433 | 772 | 774 | 778 | rVV | 45434 | 58235 | 2.62% | 0.419% |
| 17 | 10.513 | 778 | 781 | 784 | rVB | 33287 | 42628 | 1.92% | 0.307% |
| 18 | 10.879 | 808 | 813 | 814 | rBV | 23531 | 34095 | 1.54% | 0.245% |
| 19 | 10.982 | 819 | 822 | 824 | rBV | 285637 | 360023 | 16.22% | 2.589% |
| 20 | 11.234 | 841 | 844 | 848 | rBV | 15346 | 22359 | 1.01% | 0.161% |
| 21 | 11.531 | 868 | 870 | 874 | rBV2 | 39616 | 78006 | 3.51% | 0.561% |
| 22 | 12.319 | 936 | 939 | 944 | rBV | 24976 | 38453 | 1.73% | 0.277% |
| 23 | 12.559 | 958 | 960 | 963 | rBV | 1027242 | 1027053 | 46.27% | 7.385% |
| 24 | 13.474 | 1037 | 1040 | 1046 | rBV | 45893 | 70497 | 3.18% | 0.507% |
| 25 | 13.600 | 1048 | 1051 | 1059 | rVV | 210069 | 280431 | 12.63% | 2.016% |
| 26 | 14.057 | 1085 | 1091 | 1093 | rBV3 | 8261 | 30124 | 1.36% | 0.217% |
| 27 | 14.102 | 1093 | 1095 | 1103 | rVB3 | 10001 | 29824 | 1.34% | 0.214% |
| 28 | 14.925 | 1165 | 1167 | 1170 | rBV | 182107 | 207938 | 9.37% | 1.495% |

Sum of corrected areas: 13906857

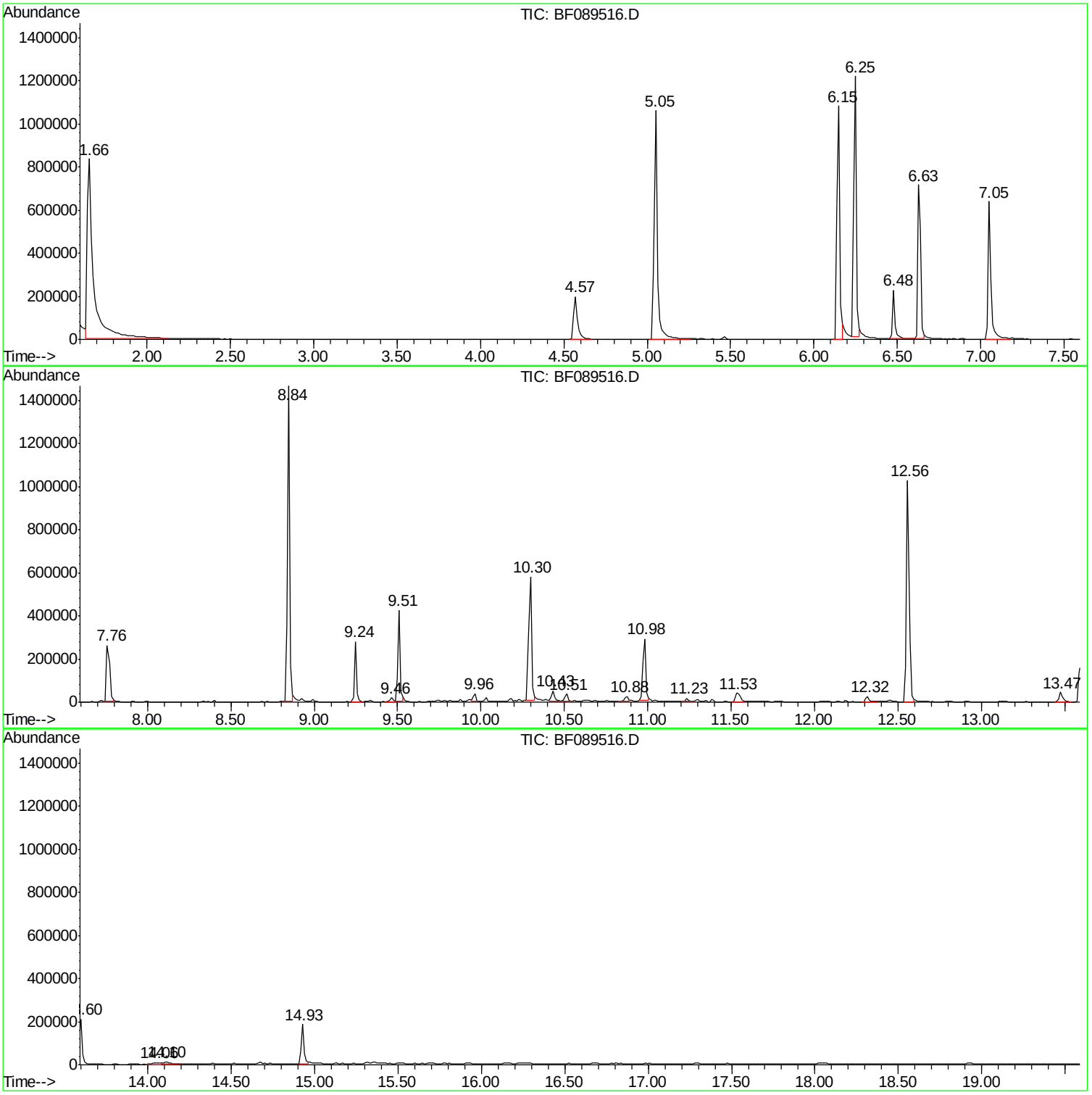
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080116\
Data File : BF089516.D
Acq On : 1 Aug 2016 17:56
Operator : UM/SJ
Sample : H4285-17
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** AB-SLOPE(0-4)S

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072716.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\BF080116\
Data File : BF089516.D
Acq On : 1 Aug 2016 17:56
Operator : UM/SJ
Sample : H4285-17
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** AB-SLOPE(0-4)S

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

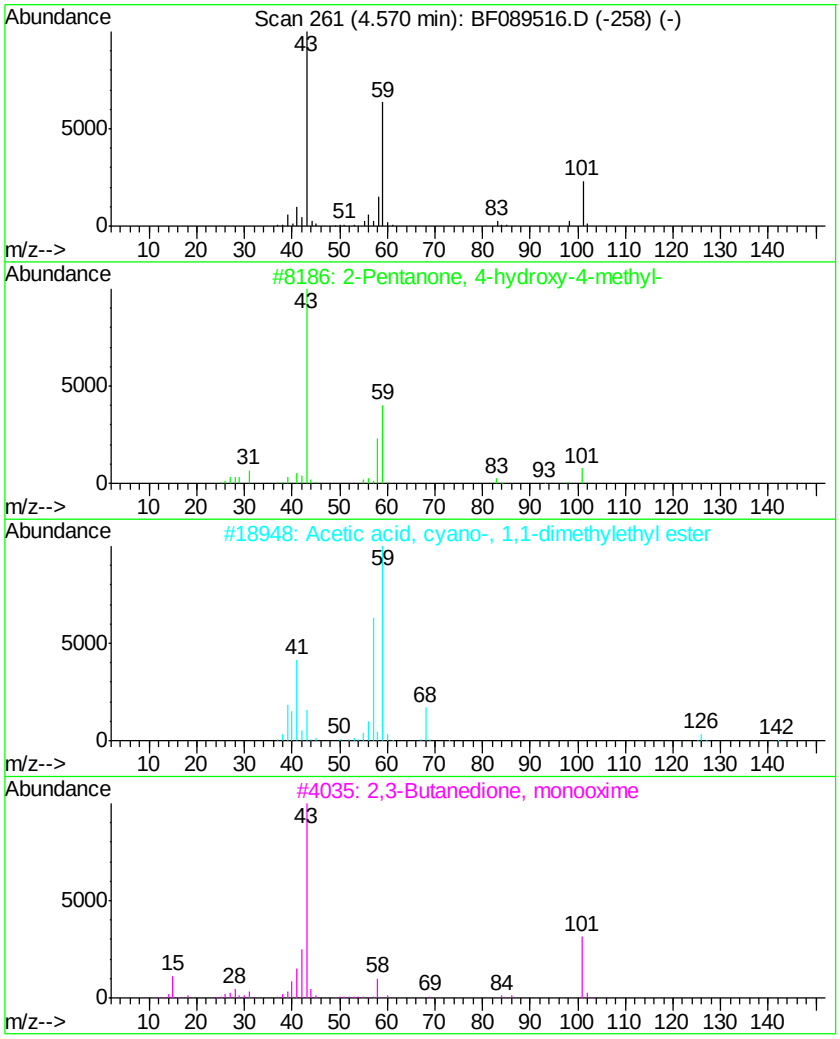
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

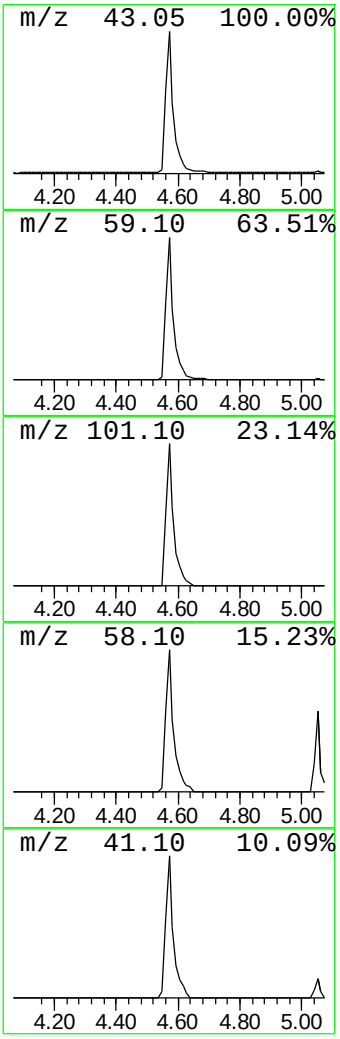
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.57 | 28.31 ng | 345404 | 1,4-Dichlorobenzene-d4 | 6.48 |

| 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 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 17 |
| 4 | Butane | 58 | C4H10 | 000106-97-8 | 9 |
| 5 | Morpholine, 4-methyl- | 101 | C5H11NO | 000109-02-4 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF080116\
Data File : BF089516.D
Acq On : 1 Aug 2016 17:56
Operator : UM/SJ
Sample : H4285-17
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** AB-SLOPE(0-4)S

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

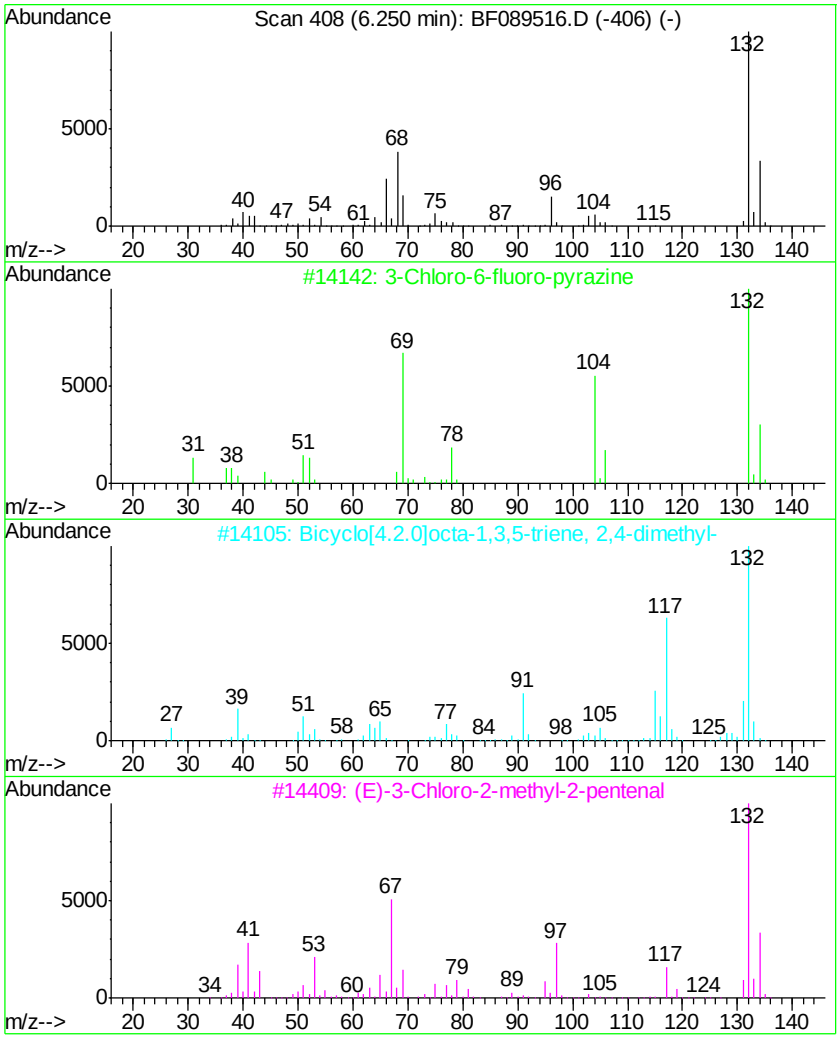
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

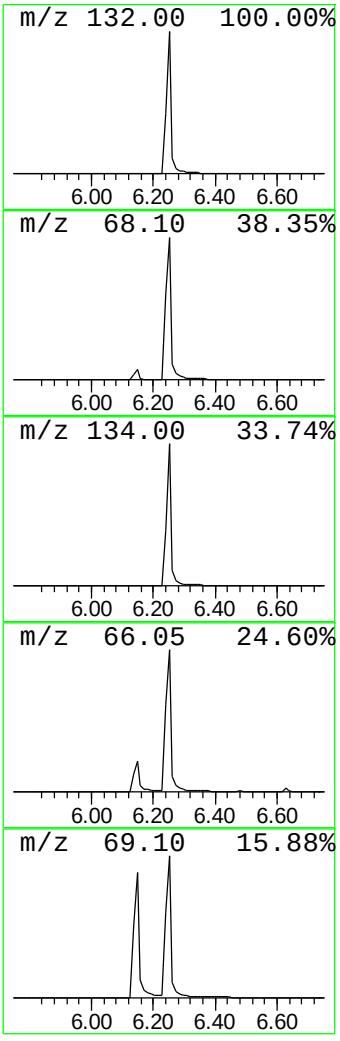
**********

Peak Number 3 unknown6.25 Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.25 | 111.99 ng | 1366460 | 1,4-Dichlorobenzene-d4 | 6.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 16 |
| 2 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12 | 028749-81-7 | 9 |
| 3 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 9 |
| 4 | 4-Methylpyrrolo[1,2-a]pyrazine | 132 | C8H8N2 | 064608-60-2 | 9 |
| 5 | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2 | 022291-85-6 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF080116\
Data File : BF089516.D
Acq On : 1 Aug 2016 17:56
Operator : UM/SJ
Sample : H4285-17
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** AB-SLOPE(0-4)S

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

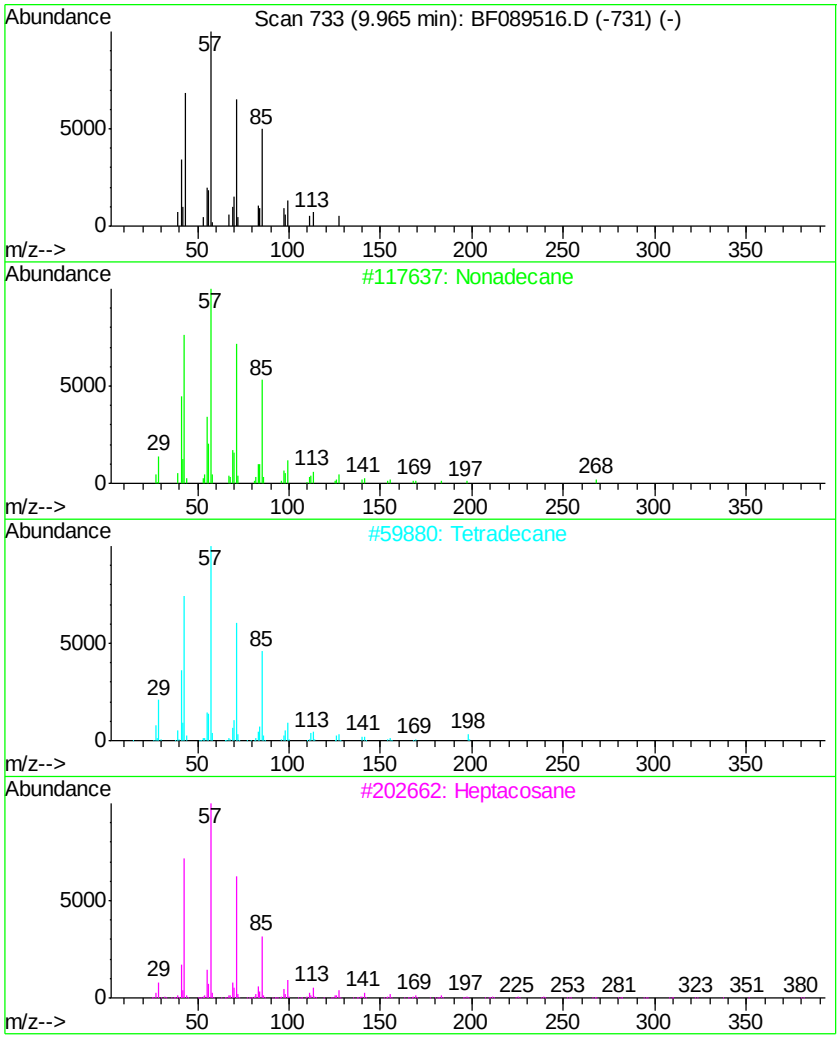
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

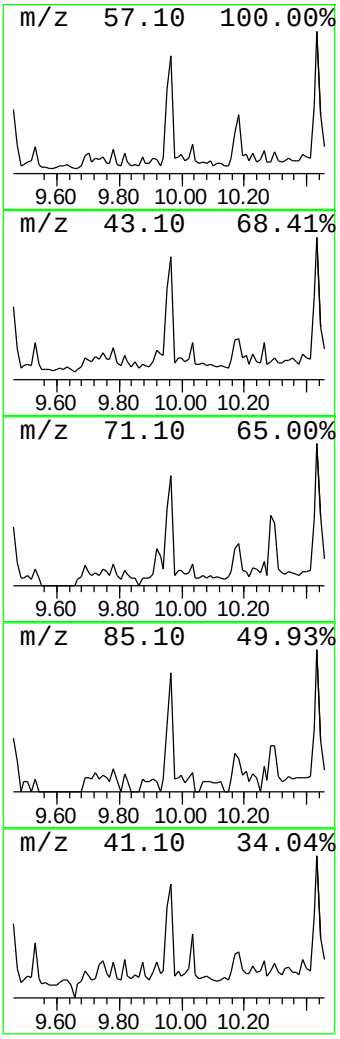
**********

Peak Number 5 Nonadecane Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.96 | 2.09 ng | 42497 | Acenaphthene-d10 | 9.51 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonadecane | 268 | C19H40 | 000629-92-5 | 91 |
| 2 | Tetradecane | 198 | C14H30 | 000629-59-4 | 86 |
| 3 | Heptacosane | 380 | C27H56 | 000593-49-7 | 83 |
| 4 | Hexadecane | 226 | C16H34 | 000544-76-3 | 78 |
| 5 | Heptadecane | 240 | C17H36 | 000629-78-7 | 78 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF080116\
Data File : BF089516.D
Acq On : 1 Aug 2016 17:56
Operator : UM/SJ
Sample : H4285-17
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** AB-SLOPE(0-4)S

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

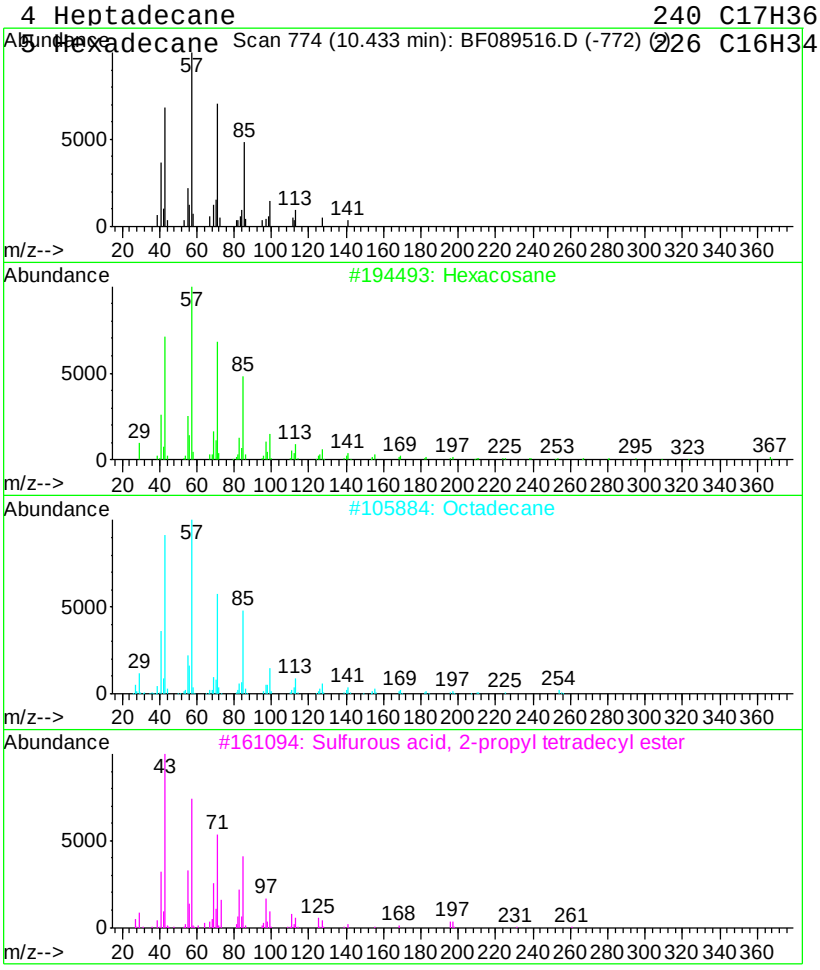
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

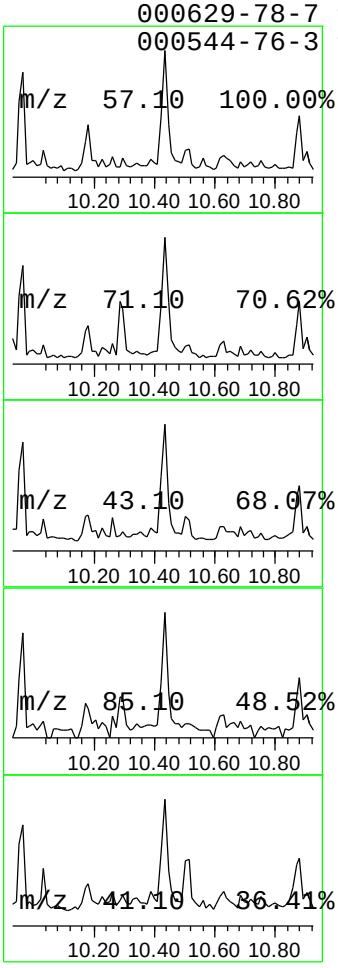
**********

Peak Number 6 Hexacosane Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.43 | 3.24 ng | 58235 | Phenanthrene-d10 | 10.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexacosane | 366 | C26H54 | 000630-01-3 | 91 |
| 2 | Octadecane | 254 | C18H38 | 000593-45-3 | 90 |
| 3 | Sulfurous acid, 2-propyl tetrade... | 320 | C17H36O3S | 1000309-12-5 | 90 |
| 4 | Heptadecane | 240 | C17H36 | 000629-78-7 | 90 |
| 5 | Hexadecane | 226 | C16H34 | 000544-76-3 | 90 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF080116\
Data File : BF089516.D
Acq On : 1 Aug 2016 17:56
Operator : UM/SJ
Sample : H4285-17
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** AB-SLOPE(0-4)S

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

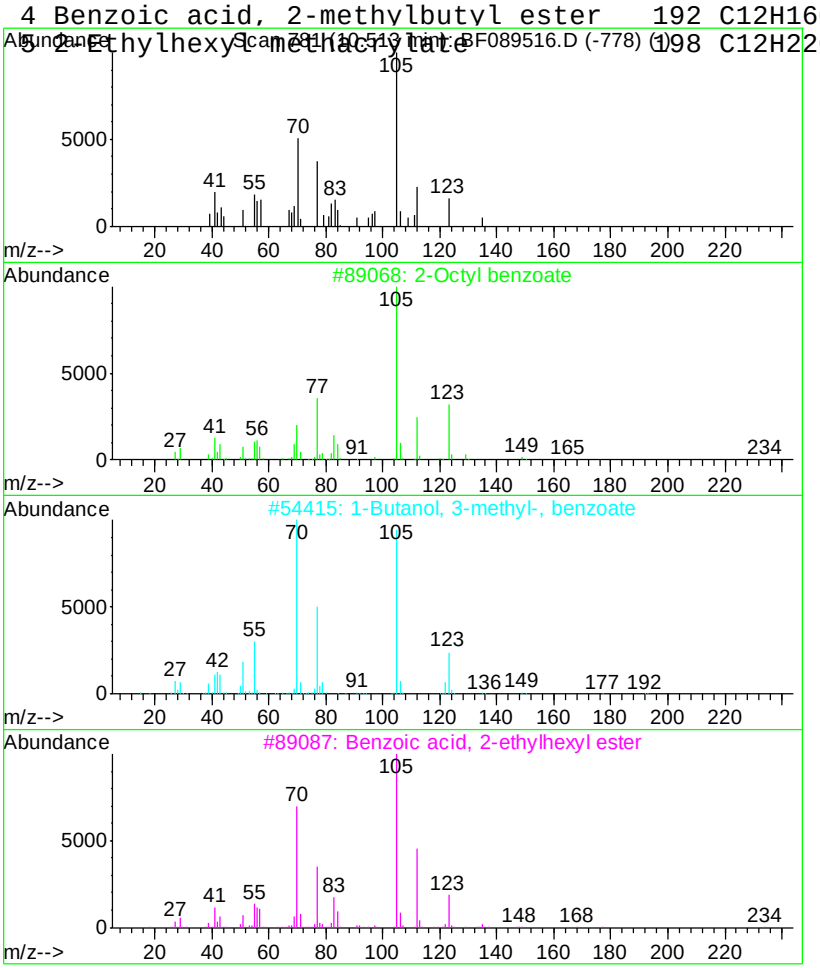
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

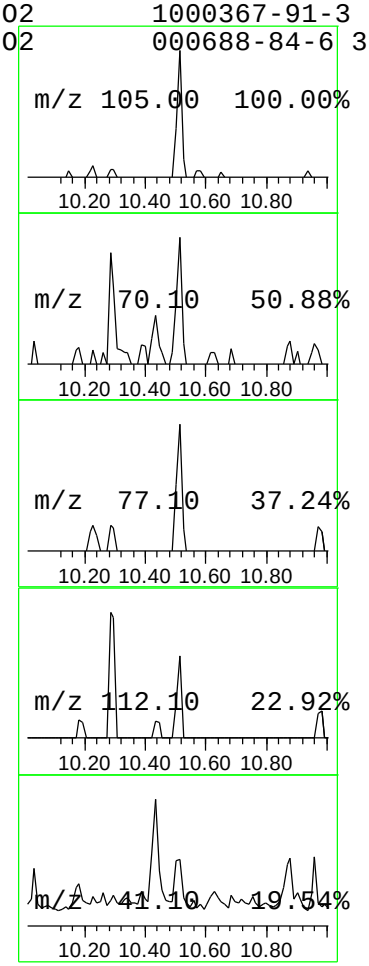
**********

Peak Number 7 2-Octyl benzoate Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.51 | 2.37 ng | 42628 | Phenanthrene-d10 | 10.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Octyl benzoate | 234 | C15H22O2 | 006938-51-8 | 50 |
| 2 | 1-Butanol, 3-methyl-, benzoate | 192 | C12H16O2 | 000094-46-2 | 47 |
| 3 | Benzoic acid, 2-ethylhexyl ester | 234 | C15H22O2 | 005444-75-7 | 45 |
| 4 | Benzoic acid, 2-methylbutyl ester | 192 | C12H16O2 | 1000367-91-3 | 38 |
| 5 | 2-Ethylhexyl methacrylate | 198 | C12H22O2 | 000688-84-6 | 32 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF080116\
Data File : BF089516.D
Acq On : 1 Aug 2016 17:56
Operator : UM/SJ
Sample : H4285-17
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** AB-SLOPE(0-4)S

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

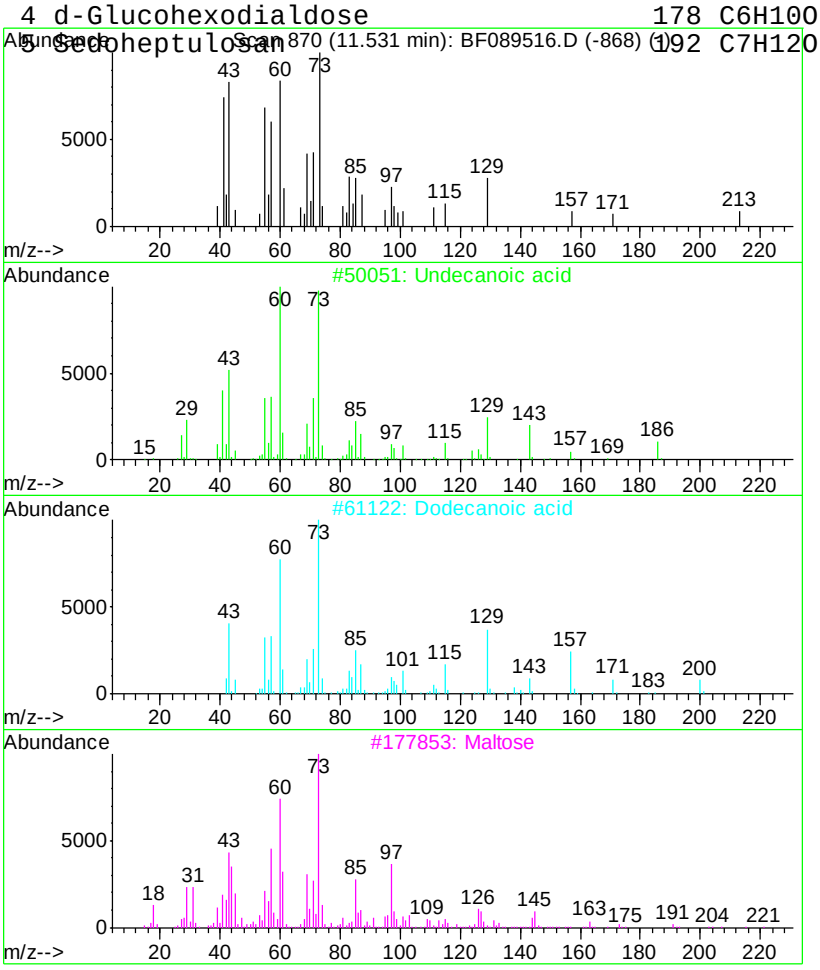
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

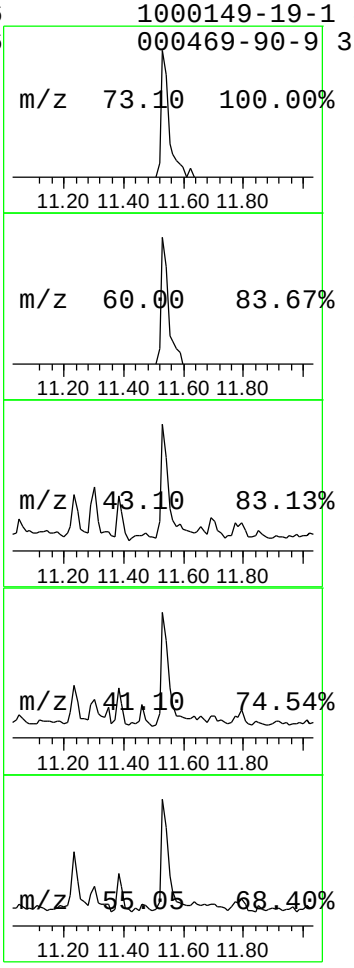
**********

Peak Number 8 Undecanoic acid Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.53 | 4.33 ng | 78006 | Phenanthrene-d10 | 10.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Undecanoic acid | 186 | C11H22O2 | 000112-37-8 | 72 |
| 2 | Dodecanoic acid | 200 | C12H24O2 | 000143-07-7 | 43 |
| 3 | Maltose | 342 | C12H22O11 | 000069-79-4 | 43 |
| 4 | d-Glucohexodialdose | 178 | C6H10O6 | 1000149-19-1 | 43 |
| 5 | Sedoheptulosan | 192 | C7H12O6 | 000469-90-9 | 35 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF080116\
Data File : BF089516.D
Acq On : 1 Aug 2016 17:56
Operator : UM/SJ
Sample : H4285-17
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** AB-SLOPE(0-4)S

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

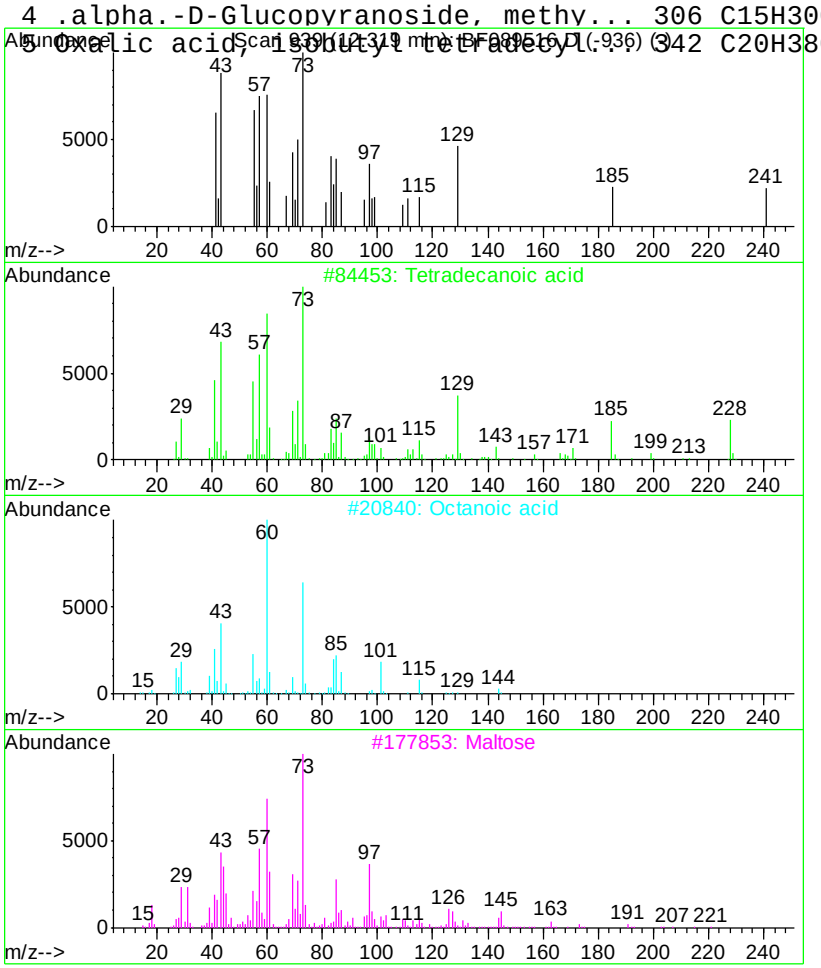
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

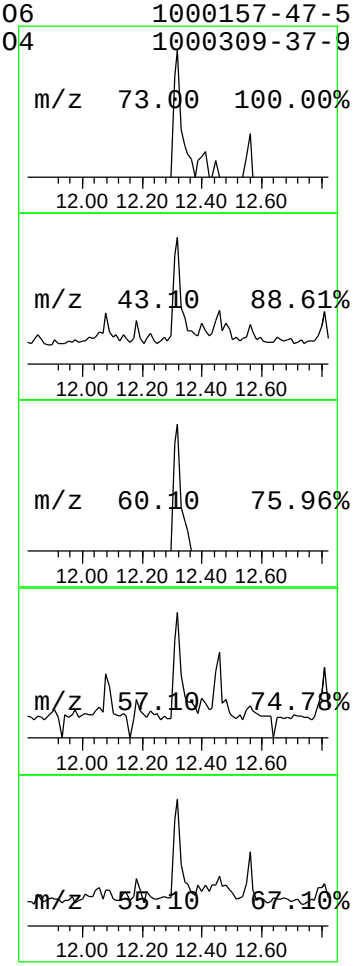
**********

Peak Number 9 Tetradecanoic acid Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.32 | 2.74 ng | 38453 | Chrysene-d12 | 13.60 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 59 |
| 2 | Octanoic acid | 144 | C8H16O2 | 000124-07-2 | 43 |
| 3 | Maltose | 342 | C12H22O11 | 000069-79-4 | 38 |
| 4 | .alpha.-D-Glucopyranoside, methy... | 306 | C15H30O6 | 1000157-47-5 | 27 |
| 5 | Oxalic acid, isobutyl tetradecyl... | 342 | C20H38O4 | 1000309-37-9 | 27 |



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Operator : UM/SJ
Sample : H4285-17
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** AB-SLOPE(0-4)S

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

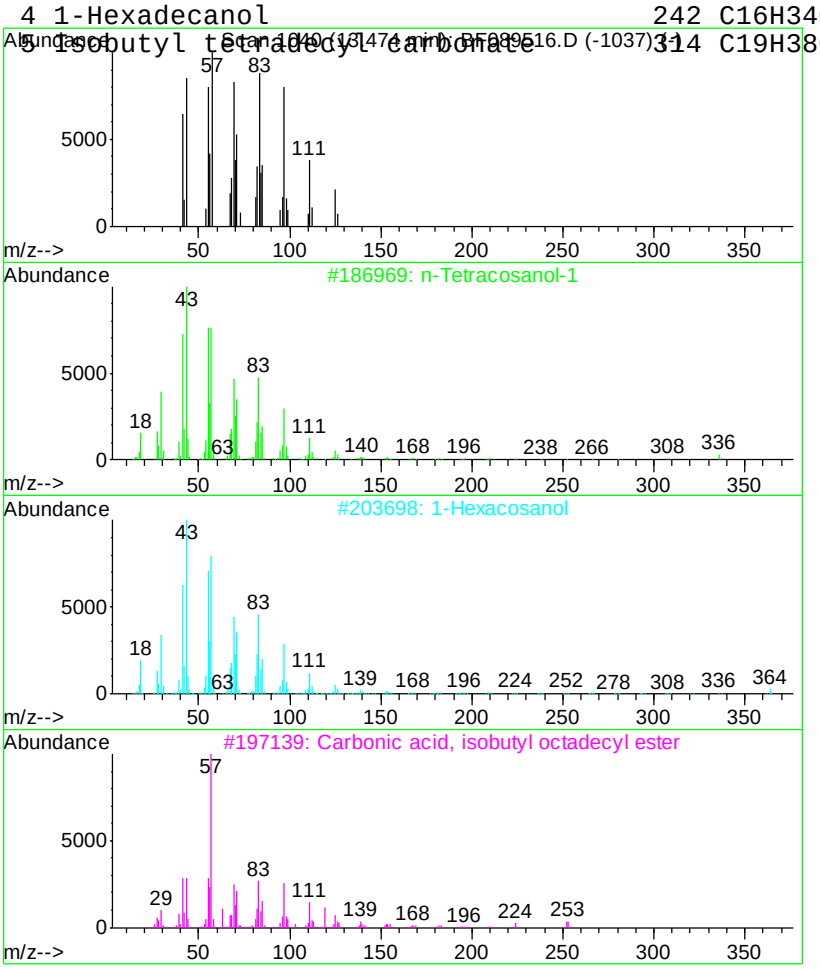
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

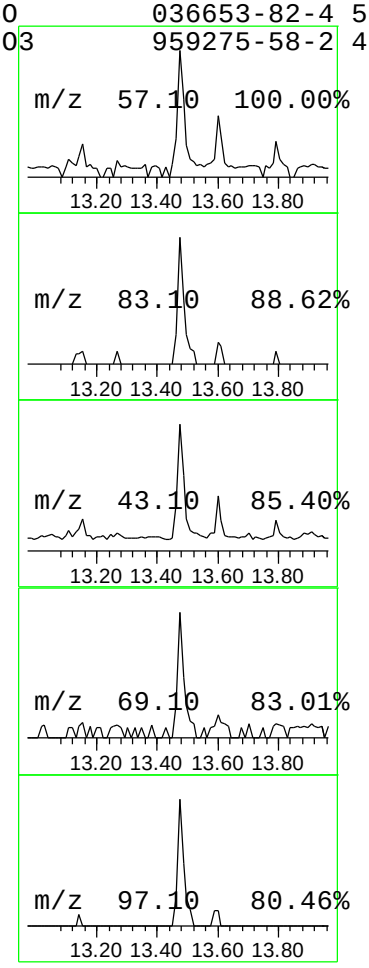
**********

Peak Number 10 n-Tetracosanol-1 Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.47 | 5.03 ng | 70497 | Chrysene-d12 | 13.60 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Tetracosanol-1 | 354 | C24H50O | 000506-51-4 | 87 |
| 2 | 1-Hexacosanol | 382 | C26H54O | 000506-52-5 | 87 |
| 3 | Carbonic acid, isobutyl octadecy... | 370 | C23H46O3 | 1000314-61-5 | 58 |
| 4 | 1-Hexadecanol | 242 | C16H34O | 036653-82-4 | 52 |
| 5 | Isobutyl tetradecyl carbonate | 314 | C19H38O3 | 959275-58-2 | 49 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF080116\
Data File : BF089516.D
Acq On : 1 Aug 2016 17:56
Operator : UM/SJ
Sample : H4285-17
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** AB-SLOPE(0-4)S

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

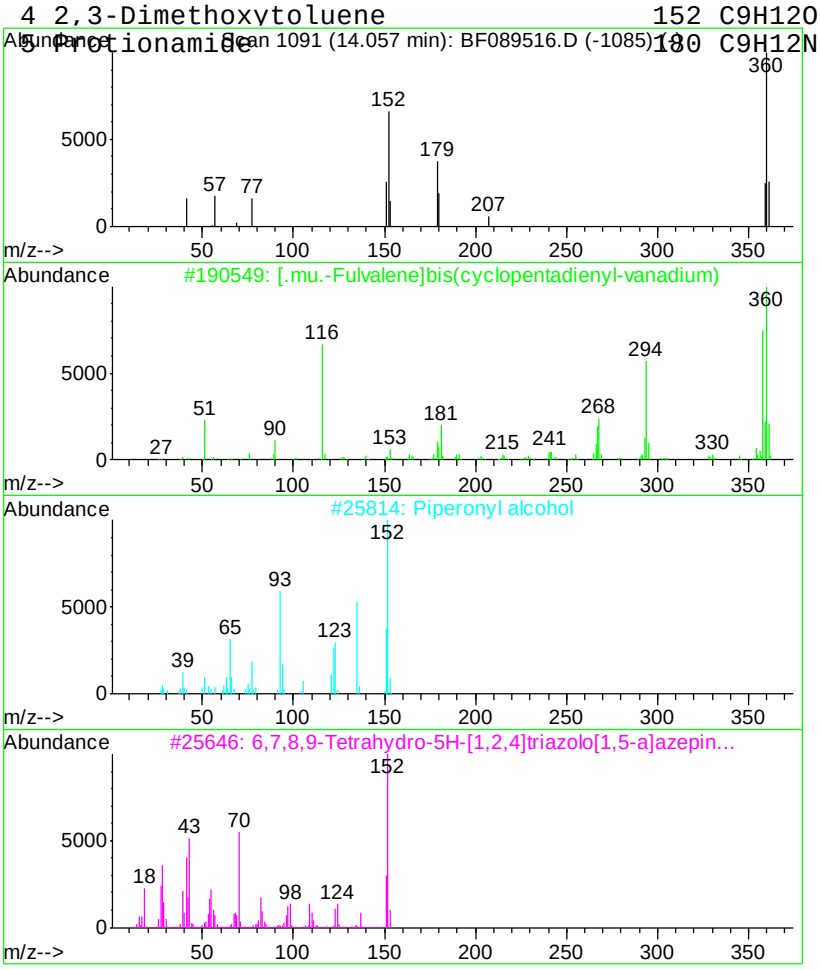
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

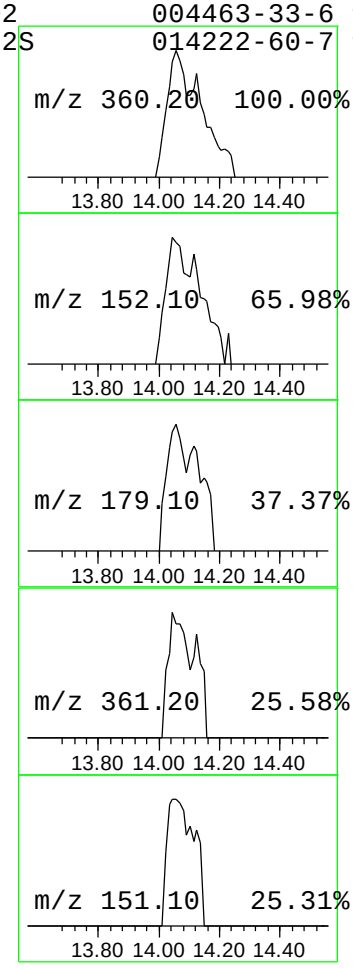
**********

Peak Number 11 unknown14.06 Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.06 | 2.15 ng | 30124 | Chrysene-d12 | 13.60 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | [.mu.-Fulvalene]bis(cyclopentadi... | 360 | C20H18V2 | 1000163-45-2 | 37 |
| 2 | Piperonyl alcohol | 152 | C8H8O3 | 000495-76-1 | 9 |
| 3 | 6,7,8,9-Tetrahydro-5H-[1,2,4]tri... | 152 | C7H12N4 | 052333-20-7 | 9 |
| 4 | 2,3-Dimethoxytoluene | 152 | C9H12O2 | 004463-33-6 | 9 |
| 5 | Protionamide | 180 | C9H12N2S | 014222-60-7 | 9 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF080116\
Data File : BF089516.D
Acq On : 1 Aug 2016 17:56
Operator : UM/SJ
Sample : H4285-17
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** AB-SLOPE(0-4)S

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

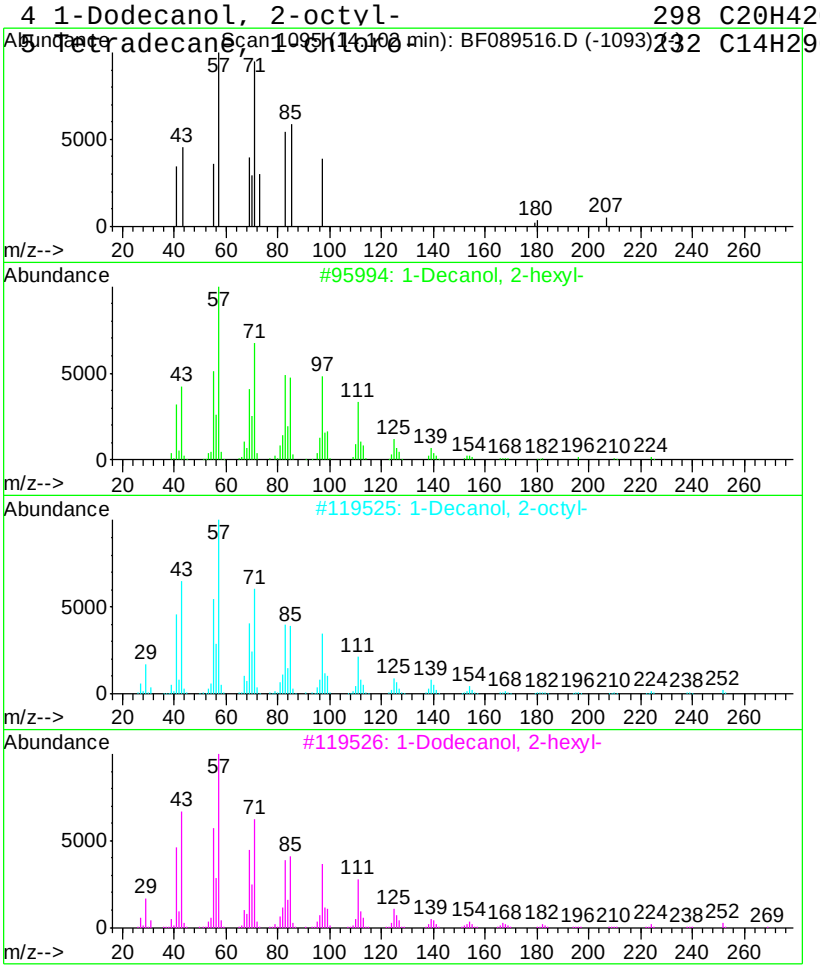
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

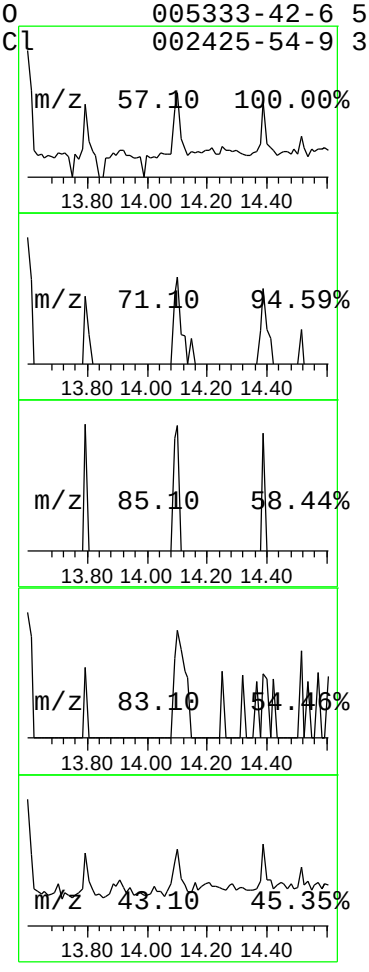
**********

Peak Number 12 1-Decanol, 2-hexyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.10 | 2.13 ng | 29824 | Chrysene-d12 | 13.60 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Decanol, 2-hexyl- | 242 | C16H34O | 002425-77-6 | 56 |
| 2 | 1-Decanol, 2-octyl- | 270 | C18H38O | 045235-48-1 | 56 |
| 3 | 1-Dodecanol, 2-hexyl- | 270 | C18H38O | 110225-00-8 | 56 |
| 4 | 1-Dodecanol, 2-octyl- | 298 | C20H42O | 005333-42-6 | 56 |
| 5 | Tetradecane, 1-chloro- | 232 | C14H29Cl | 002425-54-9 | 39 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF080116\
Data File : BF089516.D
Acq On : 1 Aug 2016 17:56
Operator : UM/SJ
Sample : H4285-17
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** AB-SLOPE(0-4)S

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072716.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 |
| 2-Pentanone, 4-hy... | 4.57 | 28.3 | ng | 345404 | 1 | 6.48 | 244043 | 20.0 |
| unknown6.25 | 6.25 | 112.0 | ng | 1366460 | 1 | 6.48 | 244043 | 20.0 |
| Nonadecane | 9.96 | 2.1 | ng | 42497 | 3 | 9.51 | 407353 | 20.0 |
| Hexacosane | 10.43 | 3.2 | ng | 58235 | 4 | 10.98 | 360023 | 20.0 |
| 2-Octyl benzoate | 10.51 | 2.4 | ng | 42628 | 4 | 10.98 | 360023 | 20.0 |
| Undecanoic acid | 11.53 | 4.3 | ng | 78006 | 4 | 10.98 | 360023 | 20.0 |
| Tetradecanoic acid | 12.32 | 2.7 | ng | 38453 | 5 | 13.60 | 280431 | 20.0 |
| n-Tetracosanol-1 | 13.47 | 5.0 | ng | 70497 | 5 | 13.60 | 280431 | 20.0 |
| unknown14.06 | 14.06 | 2.1 | ng | 30124 | 5 | 13.60 | 280431 | 20.0 |
| 1-Decanol, 2-hexyl- | 14.10 | 2.1 | ng | 29824 | 5 | 13.60 | 280431 | 20.0 |