LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF013118\
Data File : BF102679.D
Acq On : 1 Feb 2018 2:23
Operator : SJ/JU
Sample : J1385-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EPE-106-5(120-122)

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-BF012218.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 | 4.916 | 476 | 481 | 493 | rBV | 162522 | 233871 | 6.81% | 0.833% |
| 2 | 5.340 | 549 | 553 | 577 | rBV | 3081554 | 3391792 | 98.77% | 12.085% |
| 3 | 6.375 | 725 | 729 | 744 | rBV | 3097152 | 3433918 | 100.00% | 12.236% |
| 4 | 6.487 | 744 | 748 | 763 | rVB | 3565196 | 3349482 | 97.54% | 11.935% |
| 5 | 6.710 | 782 | 786 | 795 | rBV | 918460 | 872786 | 25.42% | 3.110% |
| 6 | 6.863 | 808 | 812 | 815 | rBV | 2920673 | 2540056 | 73.97% | 9.051% |
| 7 | 7.281 | 878 | 883 | 893 | rBV | 2086822 | 2016080 | 58.71% | 7.184% |
| 8 | 7.992 | 1000 | 1004 | 1020 | rVB | 1130410 | 1091492 | 31.79% | 3.889% |
| 9 | 9.063 | 1182 | 1186 | 1196 | rBV | 3247137 | 3108160 | 90.51% | 11.075% |
| 10 | 9.463 | 1248 | 1254 | 1261 | rBV | 453687 | 410294 | 11.95% | 1.462% |
| 11 | 9.663 | 1285 | 1288 | 1292 | rBV | 105677 | 92973 | 2.71% | 0.331% |
| 12 | 9.745 | 1298 | 1302 | 1310 | rVB | 1021681 | 960664 | 27.98% | 3.423% |
| 13 | 10.163 | 1370 | 1373 | 1376 | rVB | 151407 | 112744 | 3.28% | 0.402% |
| 14 | 10.381 | 1406 | 1410 | 1413 | rBV2 | 36214 | 45176 | 1.32% | 0.161% |
| 15 | 10.539 | 1433 | 1437 | 1448 | rBV | 1489397 | 1424086 | 41.47% | 5.074% |
| 16 | 10.633 | 1450 | 1453 | 1458 | rVV | 113881 | 108344 | 3.16% | 0.386% |
| 17 | 11.081 | 1526 | 1529 | 1532 | rBV | 43357 | 38517 | 1.12% | 0.137% |
| 18 | 11.228 | 1551 | 1554 | 1563 | rBV | 779114 | 783030 | 22.80% | 2.790% |
| 19 | 11.751 | 1640 | 1643 | 1648 | rBV | 36406 | 44943 | 1.31% | 0.160% |
| 20 | 12.622 | 1788 | 1791 | 1796 | rBV3 | 79434 | 81429 | 2.37% | 0.290% |
| 21 | 12.810 | 1819 | 1823 | 1827 | rBV | 2175539 | 2171280 | 63.23% | 7.737% |
| 22 | 13.286 | 1900 | 1904 | 1908 | rBV4 | 31706 | 46215 | 1.35% | 0.165% |
| 23 | 13.327 | 1908 | 1911 | 1914 | rVB | 46612 | 39771 | 1.16% | 0.142% |
| 24 | 13.698 | 1970 | 1974 | 1979 | rBV | 291056 | 336061 | 9.79% | 1.197% |
| 25 | 13.869 | 2000 | 2003 | 2011 | rBV | 781302 | 801595 | 23.34% | 2.856% |
| 26 | 15.298 | 2242 | 2246 | 2253 | rBV | 393293 | 530317 | 15.44% | 1.890% |

Sum of corrected areas: 28065076

LSC Report - Integrated Chromatogram

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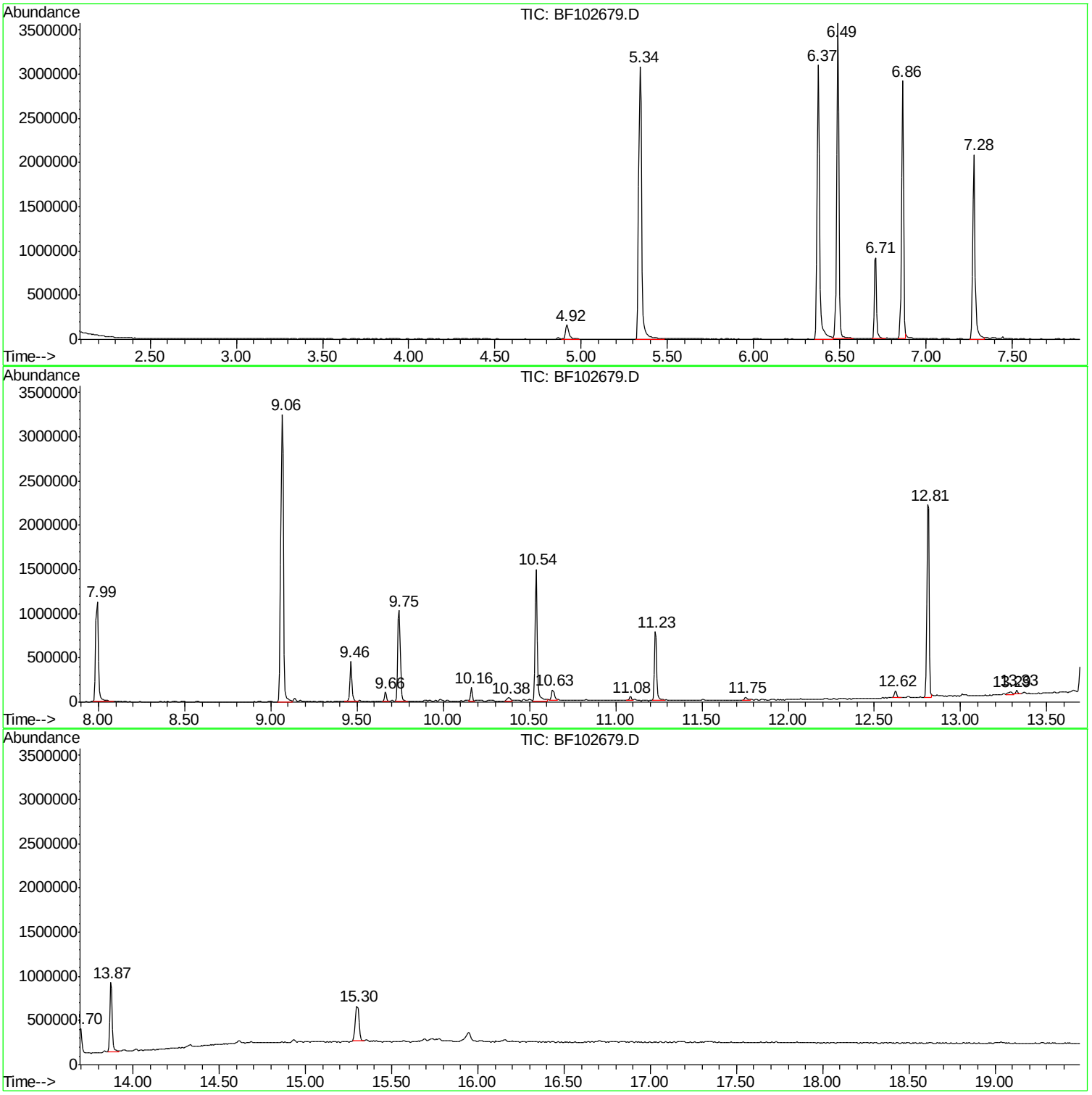
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EPE-106-5(120-122)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF012218.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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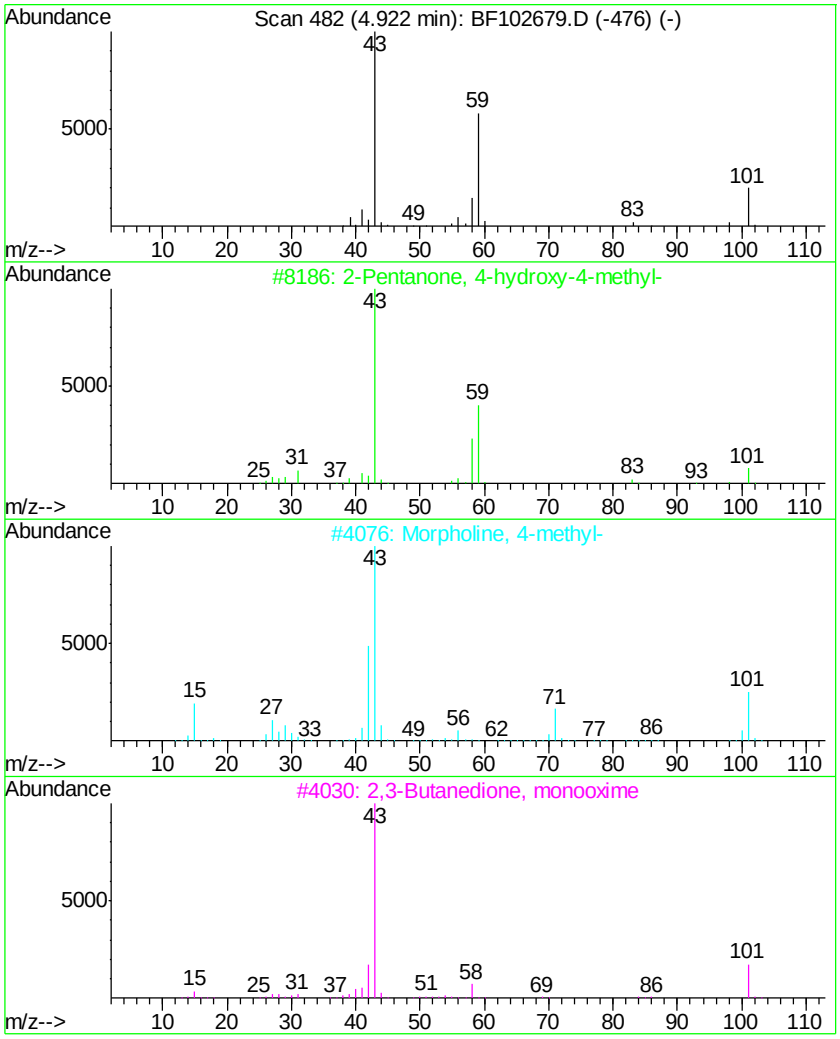
TIC Integration Parameters: LSCINT.P

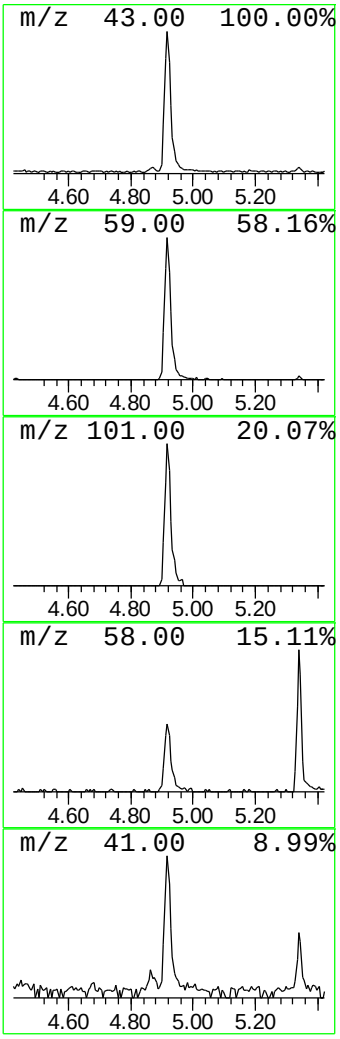
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.92 | 5.36 ng | 233871 | 1,4-Dichlorobenzene-d4 | 6.71 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 56 |
| 2 | Morpholine, 4-methyl- | 101 | C5H11NO | 000109-02-4 | 9 |
| 3 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 9 |
| 4 | Propanamide, N-ethyl- | 101 | C5H11NO | 005129-72-6 | 9 |
| 5 | Butane, 1-ethoxy- | 102 | C6H14O | 000628-81-9 | 9 |



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Sample : J1385-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EPE-106-5(120-122)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF012218.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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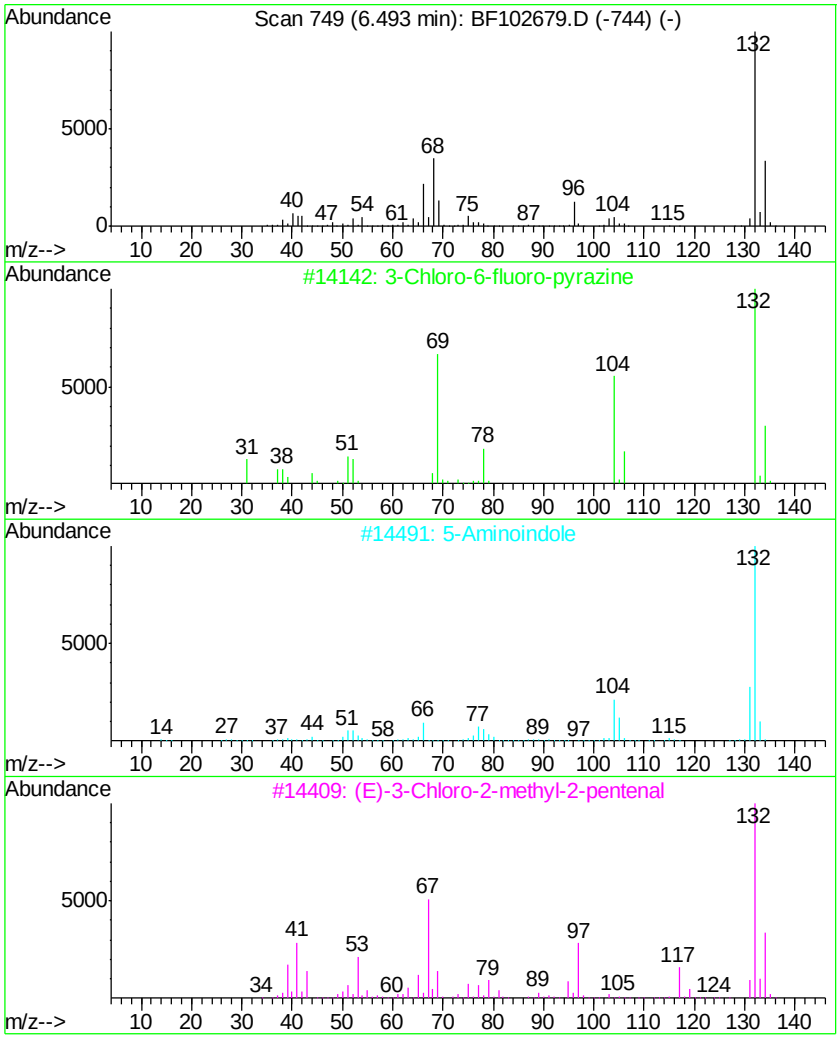
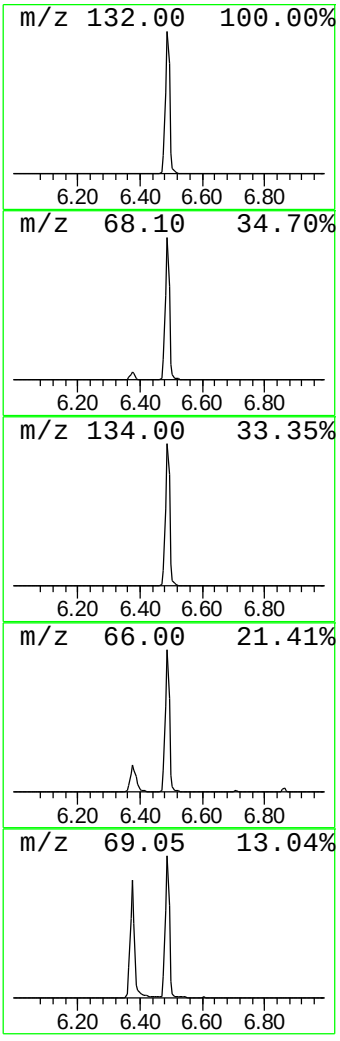
Peak Number 2 unknown6.49 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.49 | 76.75 ng | 3349480 | 1,4-Dichlorobenzene-d4 | 6.71 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 27 |
| 2 | 5-Aminoindole | 132 | C8H8N2 | 005192-03-0 | 12 |
| 3 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 12 |
| 4 | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2 | 022291-85-6 | 9 |
| 5 | 4-Chloro-2-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-00-5 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF013118\
Data File : BF102679.D
Acq On : 1 Feb 2018 2:23
Operator : SJ/JU
Sample : J1385-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EPE-106-5(120-122)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF012218.M
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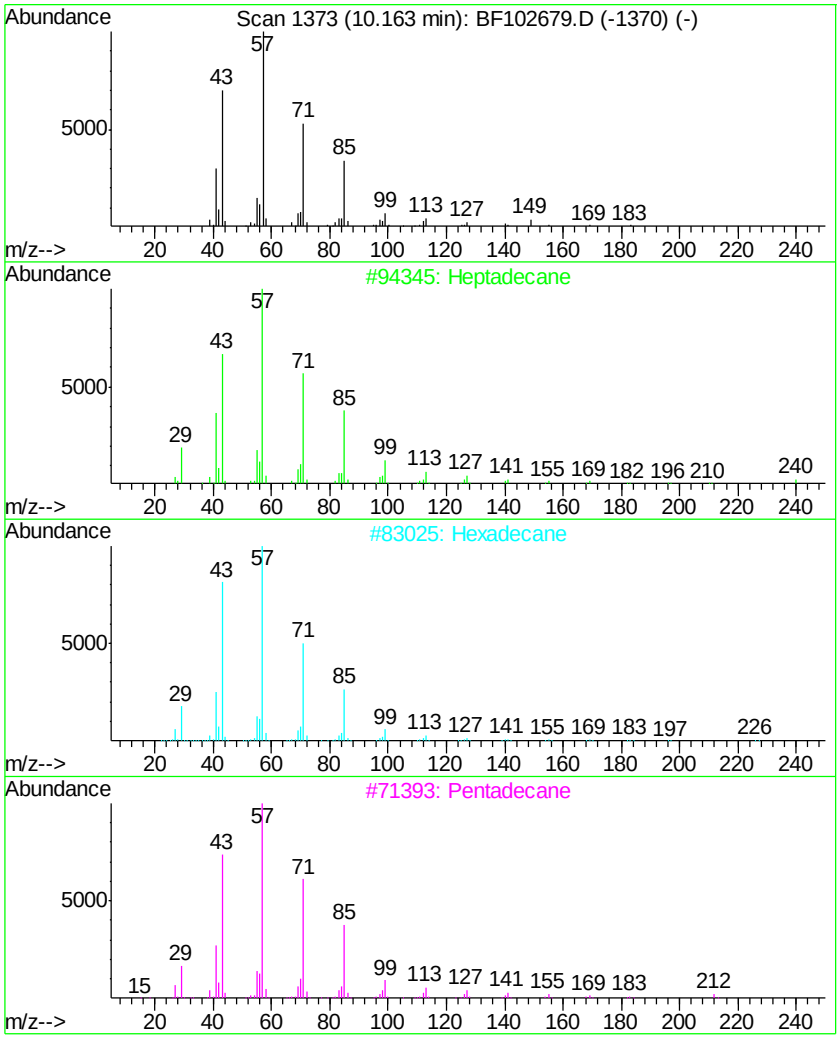
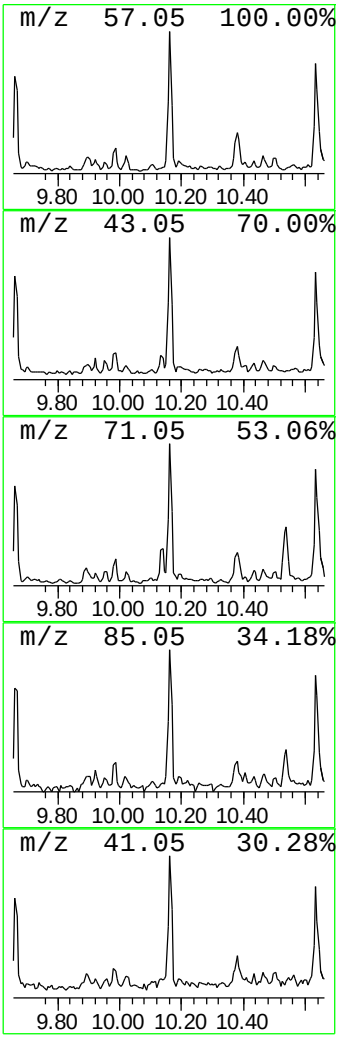
Peak Number 4 Heptadecane Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.16 | 2.35 ng | 112744 | Acenaphthene-d10 | 9.75 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptadecane | 240 | C17H36 | 000629-78-7 | 86 |
| 2 | Hexadecane | 226 | C16H34 | 000544-76-3 | 86 |
| 3 | Pentadecane | 212 | C15H32 | 000629-62-9 | 86 |
| 4 | 2-Bromo dodecane | 248 | C12H25Br | 013187-99-0 | 78 |
| 5 | Sulfurous acid, 2-ethylhexyl hex... | 278 | C14H30O3S | 1000309-20-2 | 72 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF013118\
Data File : BF102679.D
Acq On : 1 Feb 2018 2:23
Operator : SJ/JU
Sample : J1385-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EPE-106-5(120-122)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF012218.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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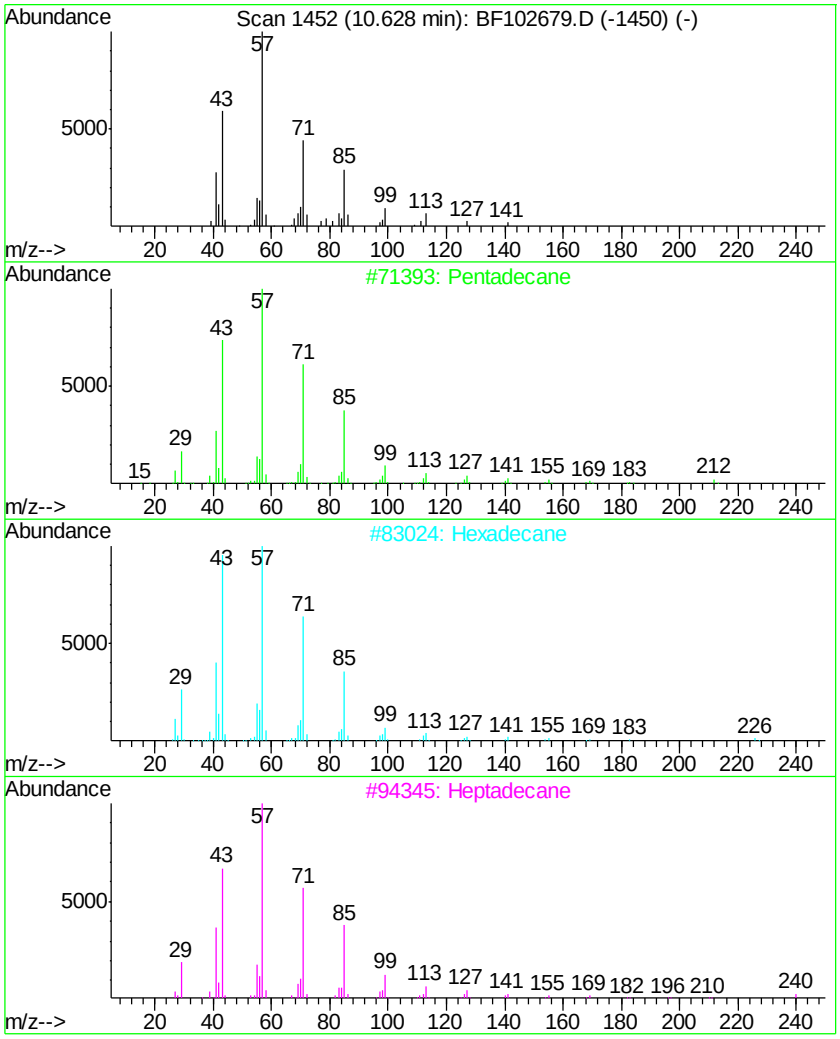
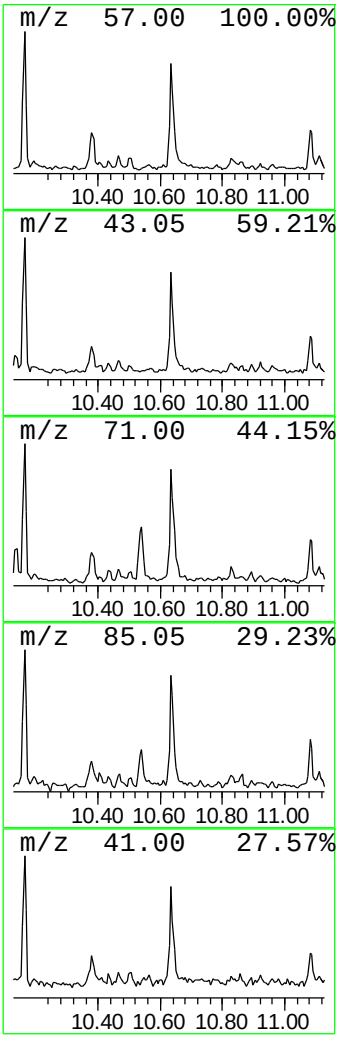
Peak Number 5 Pentadecane Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.63 | 2.77 ng | 108344 | Phenanthrene-d10 | 11.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentadecane | 212 | C15H32 | 000629-62-9 | 87 |
| 2 | Hexadecane | 226 | C16H34 | 000544-76-3 | 87 |
| 3 | Heptadecane | 240 | C17H36 | 000629-78-7 | 86 |
| 4 | Nonadecane, 9-methyl- | 282 | C20H42 | 013287-24-6 | 86 |
| 5 | Octadecane | 254 | C18H38 | 000593-45-3 | 80 |



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Sample : J1385-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** EPE-106-5(120-122)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF012218.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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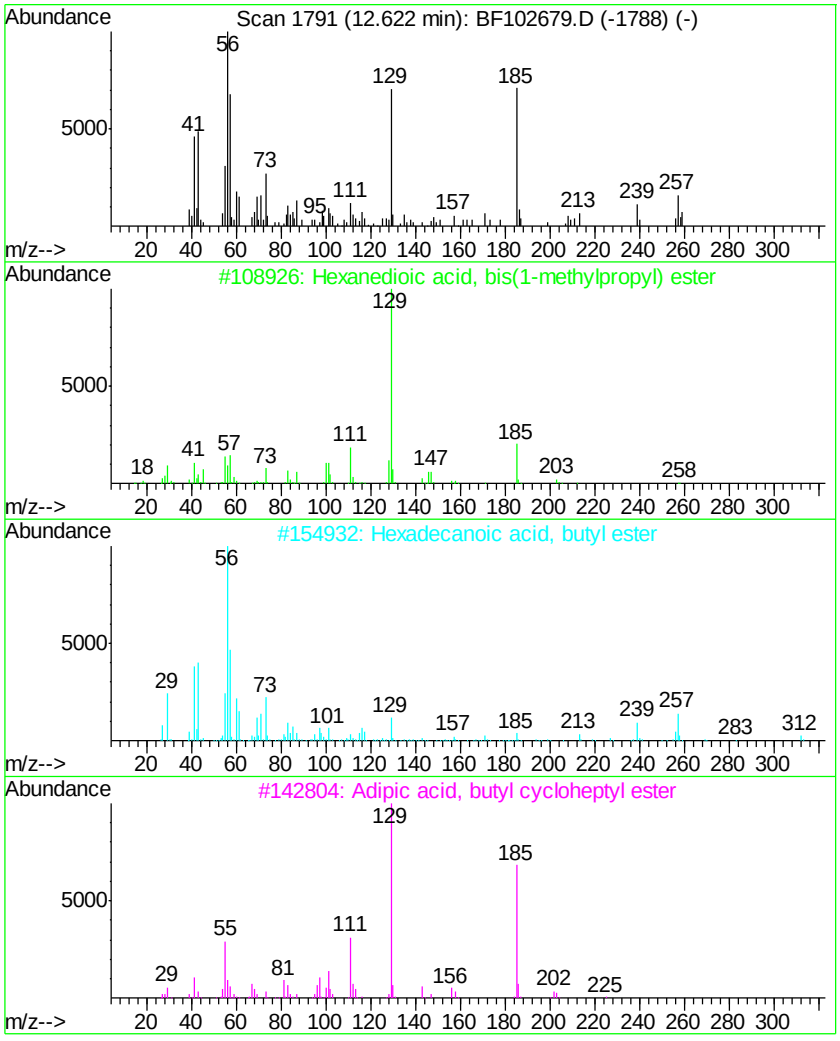
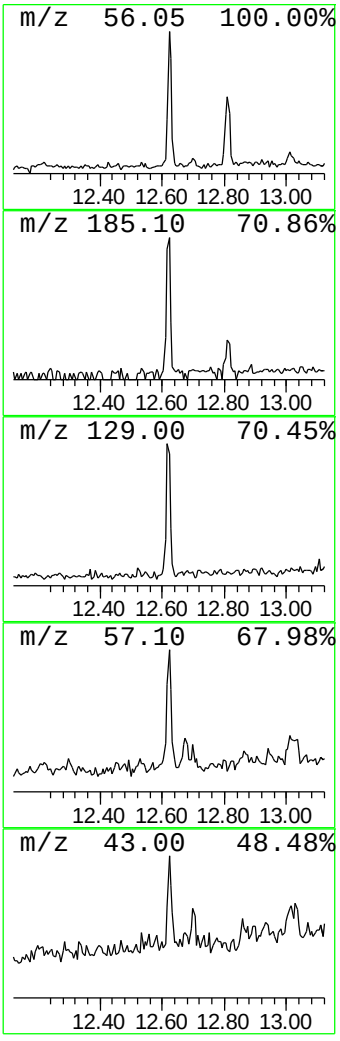
Peak Number 6 Hexanedioic acid, bis(1-met... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.62 | 2.03 ng | 81429 | Chrysene-d12 | 13.87 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexanedioic acid, bis(1-methylpr... | 258 | C14H26O4 | 038447-22-2 | 55 |
| 2 | Hexadecanoic acid, butyl ester | 312 | C20H40O2 | 000111-06-8 | 53 |
| 3 | Adipic acid, butyl cycloheptyl e... | 298 | C17H30O4 | 1000324-71-6 | 27 |
| 4 | Methanimidamide, N'-(2,3-dihydro... | 258 | C14H18N4O | 105949-64-2 | 27 |
| 5 | Adipic acid, isobutyl 3-pentyl e... | 272 | C15H28O4 | 1000324-60-4 | 27 |



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Misc :
ALS Vial : 22 Sample Multiplier: 1

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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF012218.M
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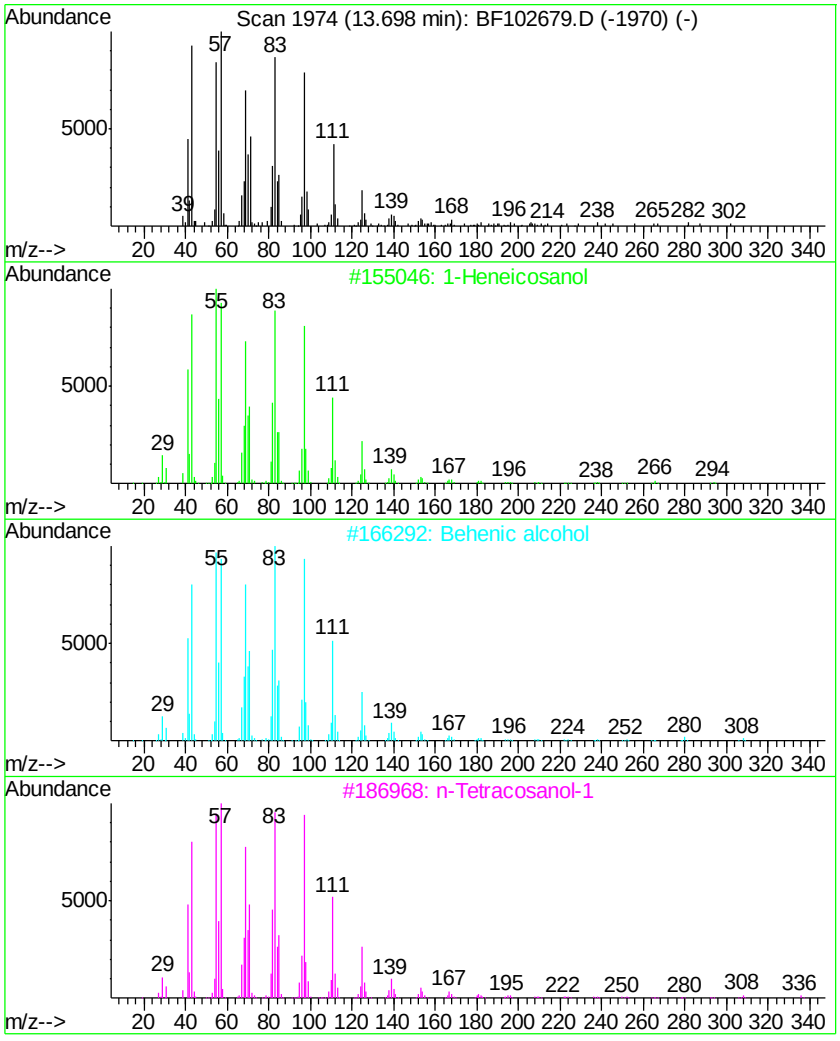
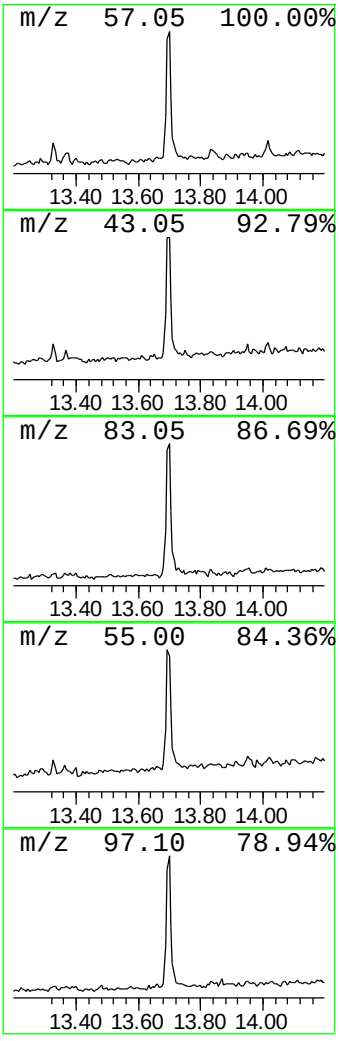
Peak Number 7 1-Heneicosanol Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.70 | 8.38 ng | 336061 | Chrysene-d12 | 13.87 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Heneicosanol | 312 | C21H44O | 015594-90-8 | 95 |
| 2 | Behenic alcohol | 326 | C22H46O | 000661-19-8 | 95 |
| 3 | n-Tetracosanol-1 | 354 | C24H50O | 000506-51-4 | 94 |
| 4 | Trichloroacetic acid, hexadecyl ... | 386 | C18H33Cl3O2 | 074339-54-1 | 94 |
| 5 | Trifluoroacetoxy hexadecane | 338 | C18H33F3O2 | 006222-03-3 | 93 |



Tentatively Identified Compound (LSC) summary

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| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| 2-Pentanone, 4-hy... | 4.92 | 5.4 | ng | 233871 | 1 | 6.71 | 872786 | 20.0 |
| unknown6.49 | 6.49 | 76.8 | ng | 3349480 | 1 | 6.71 | 872786 | 20.0 |
| Heptadecane | 10.16 | 2.4 | ng | 112744 | 3 | 9.75 | 960664 | 20.0 |
| Pentadecane | 10.63 | 2.8 | ng | 108344 | 4 | 11.23 | 783030 | 20.0 |
| Hexanedioic acid,... | 12.62 | 2.0 | ng | 81429 | 5 | 13.87 | 801595 | 20.0 |
| 1-Heneicosanol | 13.70 | 8.4 | ng | 336061 | 5 | 13.87 | 801595 | 20.0 |