LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052317\
Data File : BM010170.D
Acq On : 24 May 2017 08:34
Operator : SJ/MA
Sample : I3240-10
Misc :
ALS Vial : 35 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** EP2-WC1(6-24)

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_M\METHODS\8270-BM051917.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 | 5.069 | 333 | 337 | 352 | rBV | 488757 | 695303 | 7.17% | 1.471% |
| 2 | 5.534 | 410 | 416 | 428 | rBV | 2433749 | 3408864 | 35.17% | 7.211% |
| 3 | 7.140 | 682 | 689 | 702 | rBV | 2215769 | 3550096 | 36.63% | 7.510% |
| 4 | 7.492 | 742 | 749 | 760 | rBV | 2383951 | 3698368 | 38.16% | 7.824% |
| 5 | 7.951 | 821 | 827 | 841 | rVB | 509499 | 828562 | 8.55% | 1.753% |
| 6 | 8.275 | 873 | 882 | 892 | rBV | 1770013 | 2889162 | 29.81% | 6.112% |
| 7 | 9.139 | 1020 | 1029 | 1038 | rBV | 1265389 | 2094660 | 21.61% | 4.431% |
| 8 | 10.757 | 1296 | 1304 | 1313 | rBV | 578775 | 981923 | 10.13% | 2.077% |
| 9 | 13.210 | 1714 | 1721 | 1731 | rVB | 3553721 | 5286400 | 54.54% | 11.183% |
| 10 | 14.045 | 1858 | 1863 | 1871 | rBV | 444537 | 580749 | 5.99% | 1.229% |
| 11 | 14.586 | 1946 | 1955 | 1964 | rBV2 | 872506 | 1357323 | 14.00% | 2.871% |
| 12 | 16.074 | 2202 | 2208 | 2218 | rBV | 3154238 | 4449411 | 45.91% | 9.412% |
| 13 | 17.327 | 2415 | 2421 | 2432 | rVB | 1204621 | 1769716 | 18.26% | 3.744% |
| 14 | 18.174 | 2561 | 2565 | 2574 | rBV2 | 159762 | 236296 | 2.44% | 0.500% |
| 15 | 19.445 | 2777 | 2781 | 2788 | rBV4 | 117584 | 173229 | 1.79% | 0.366% |
| 16 | 19.933 | 2858 | 2864 | 2869 | rBV | 7772181 | 9692472 | 100.00% | 20.504% |
| 17 | 21.486 | 3124 | 3128 | 3136 | rBV | 2156103 | 2654352 | 27.39% | 5.615% |
| 18 | 23.850 | 3524 | 3530 | 3540 | rVB2 | 1442385 | 2924560 | 30.17% | 6.187% |

Sum of corrected areas: 47271446

LSC Report - Integrated Chromatogram

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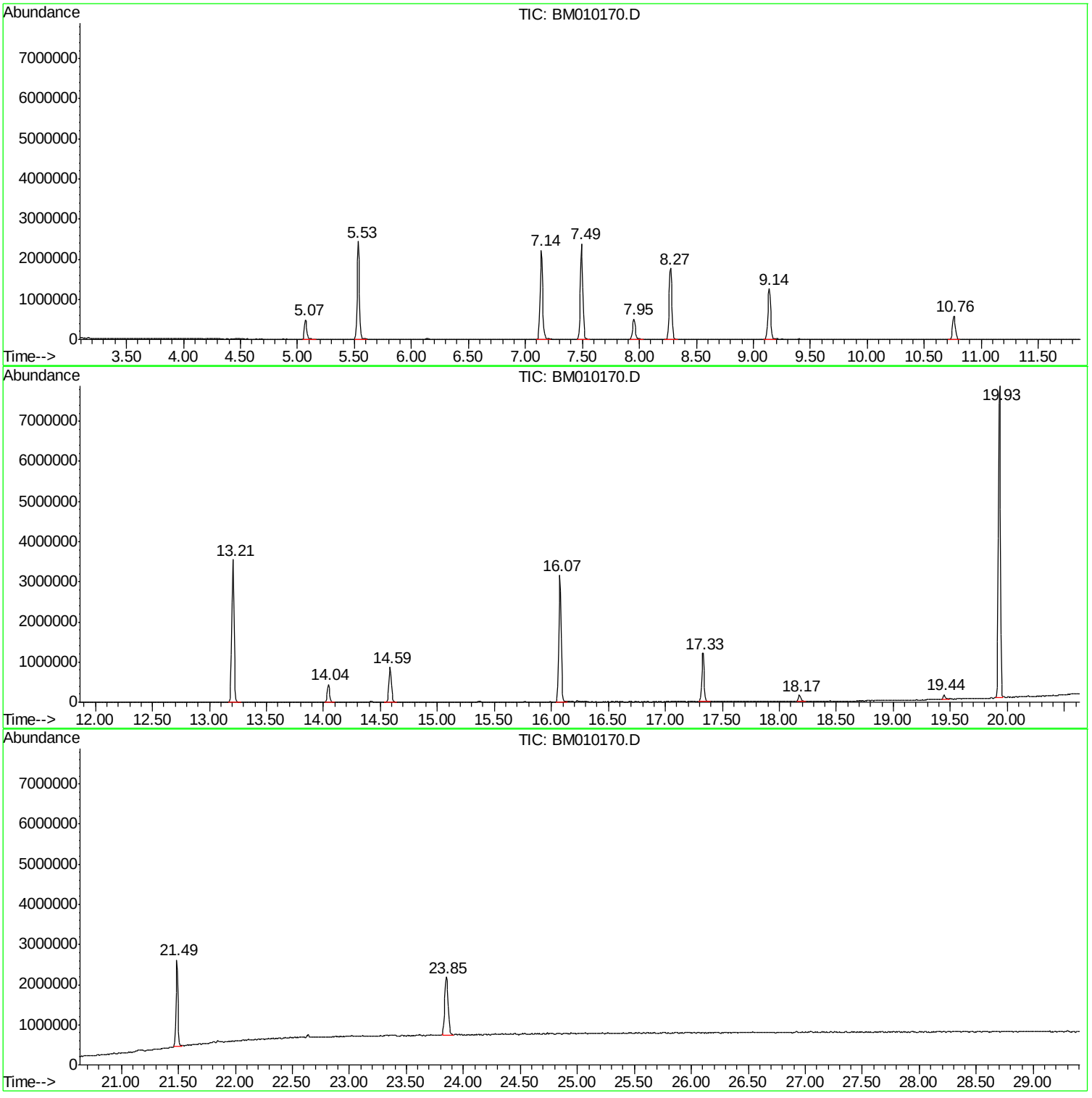
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-BM051917.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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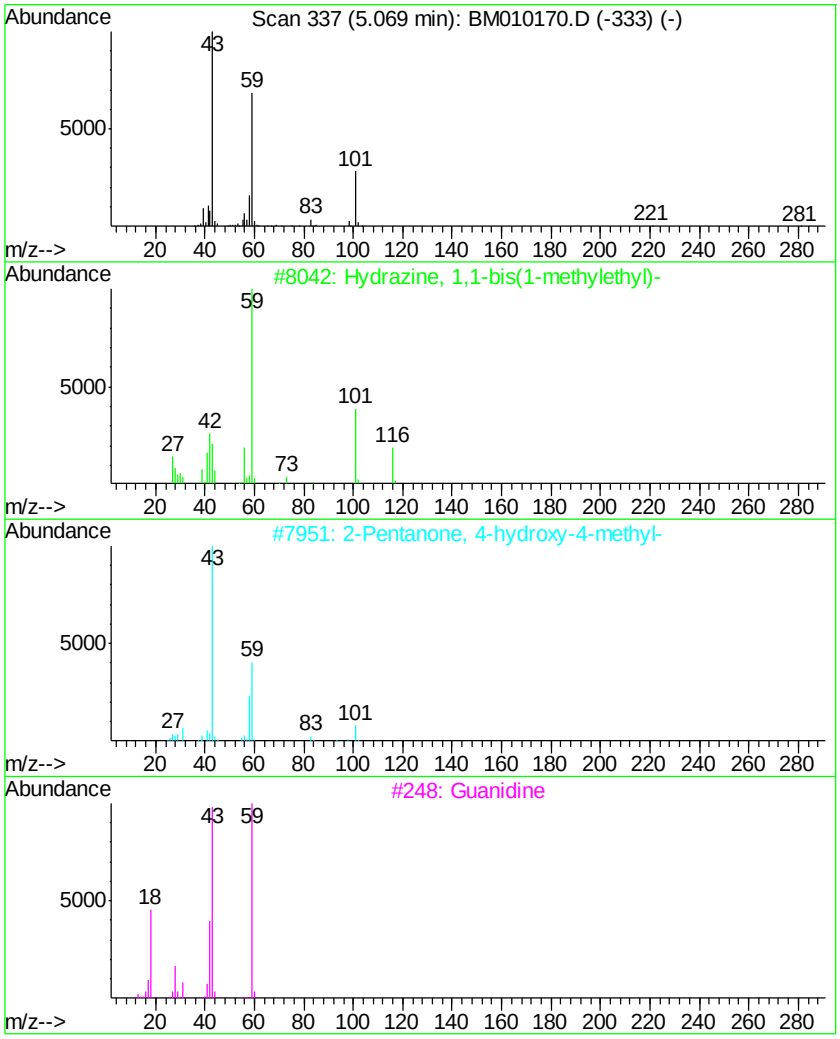
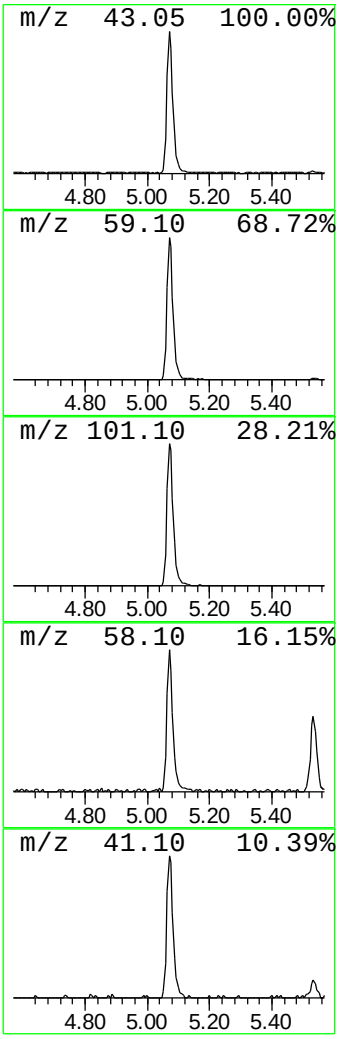
Peak Number 1 Hydrazine, 1,1-bis(1-methyl... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.07 | 16.78 ng | 695303 | 1,4-Dichlorobenzene-d4 | 7.95 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hydrazine, 1,1-bis(1-methylethyl)- | 116 | C6H16N2 | 000921-14-2 | 50 |
| 2 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 50 |
| 3 | Guanidine | 59 | CH5N3 | 000113-00-8 | 43 |
| 4 | Propane, 1,1-dipropoxy- | 160 | C9H20O2 | 004744-11-0 | 38 |
| 5 | (+-)-4-Amino-4,5-dihydro-2(3H)-f... | 101 | C4H7NO2 | 016504-58-8 | 38 |



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

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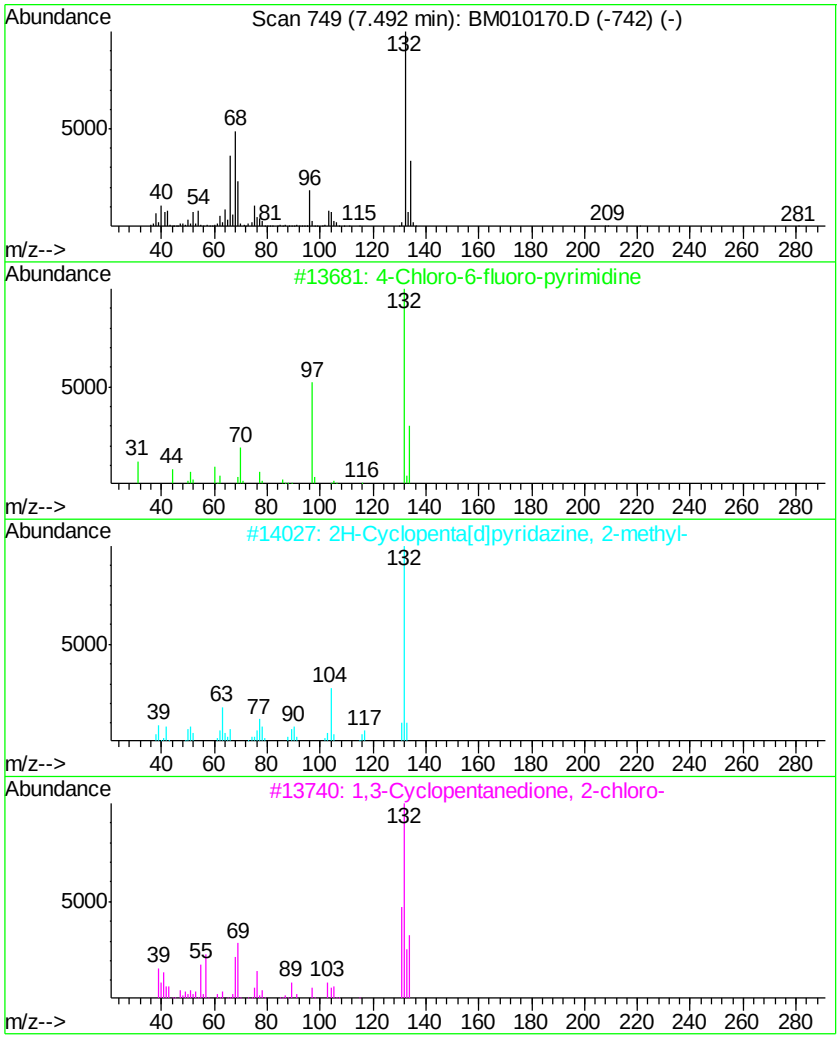
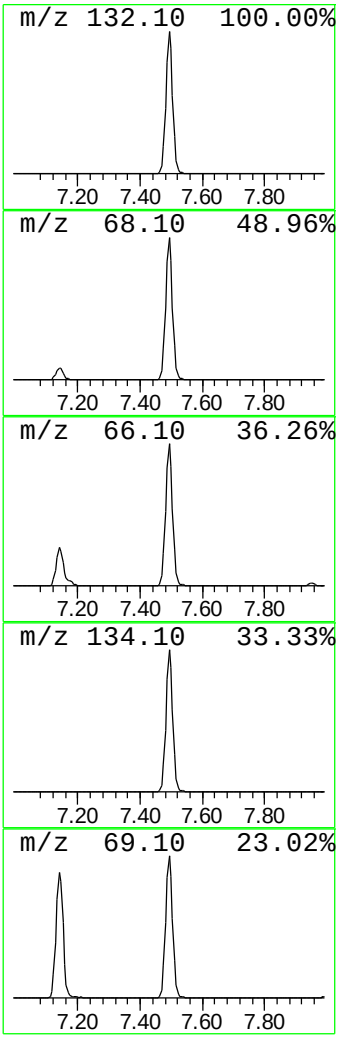
Peak Number 2 unknown7.49 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.49 | 89.27 ng | 3698370 | 1,4-Dichlorobenzene-d4 | 7.95 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4-Chloro-6-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-01-6 | 27 |
| 2 | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2 | 022291-85-6 | 27 |
| 3 | 1,3-Cyclopentanedione, 2-chloro- | 132 | C5H5ClO2 | 014203-19-1 | 25 |
| 4 | 1H-Benzimidazole, 2-methyl- | 132 | C8H8N2 | 000615-15-6 | 22 |
| 5 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 16 |



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**Instrument :** BNA_M
**ClientSampleId :** EP2-WC1(6-24)

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TIC Integration Parameters: LSCINT.P

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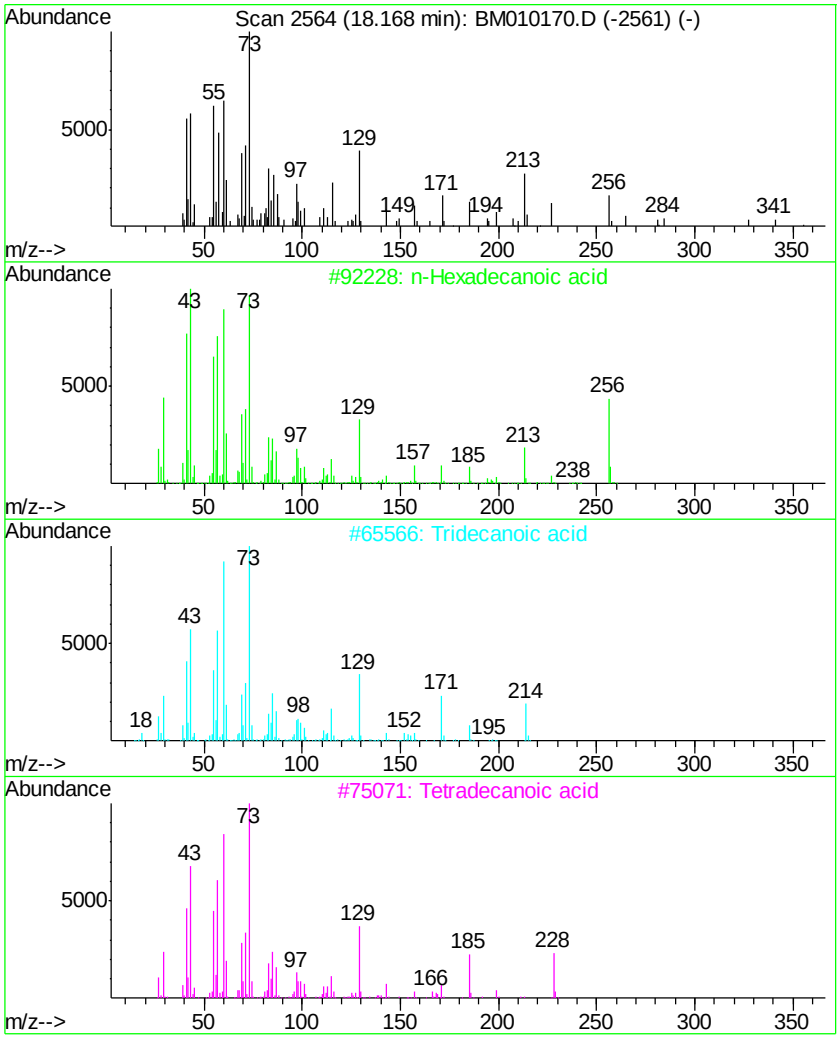
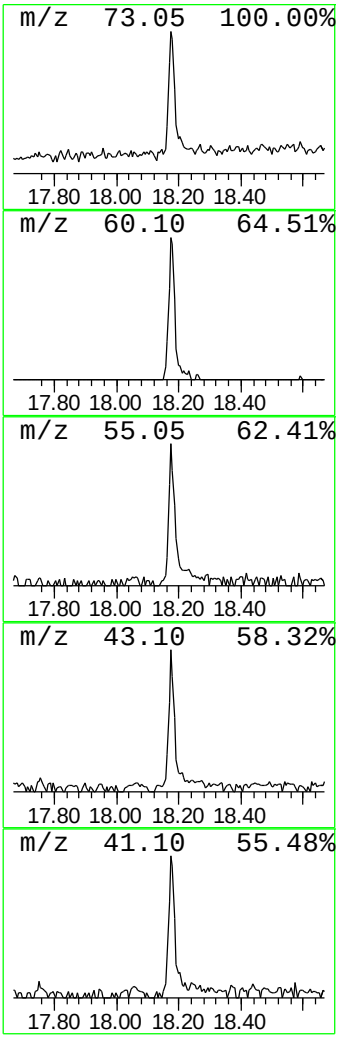
Peak Number 4 n-Hexadecanoic acid Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.17 | 2.67 ng | 236296 | Phenanthrene-d10 | 17.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 89 |
| 2 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 64 |
| 3 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 49 |
| 4 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 49 |
| 5 | n-Decanoic acid | 172 | C10H20O2 | 000334-48-5 | 45 |



Tentatively Identified Compound (LSC) summary

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Misc :
ALS Vial : 35 Sample Multiplier: 1

**Instrument :** BNA_M
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Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-BM051917.M
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TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Hydrazine, 1,1-bi... | 5.07 | 16.8 | ng | 695303 | 1 | 7.95 | 828562 | 20.0 |
| unknown7.49 | 7.49 | 89.3 | ng | 3698370 | 1 | 7.95 | 828562 | 20.0 |
| n-Hexadecanoic acid | 18.17 | 2.7 | ng | 236296 | 4 | 17.33 | 1769720 | 20.0 |