LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG120615\
Data File : BG019969.D
Acq On : 6 Dec 2015 16:23
Operator : UM/NP
Sample : G4630-18
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** MW-12

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_G\METHODS\8270-BG120215.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 | 5.190 | 394 | 400 | 406 | rBV | 42262 | 64982 | 2.02% | 0.471% |
| 2 | 5.660 | 472 | 480 | 492 | rBV | 290676 | 469377 | 14.62% | 3.400% |
| 3 | 7.258 | 745 | 752 | 763 | rBV | 200701 | 338263 | 10.54% | 2.450% |
| 4 | 7.640 | 810 | 817 | 827 | rBV | 547666 | 933568 | 29.08% | 6.762% |
| 5 | 8.116 | 891 | 898 | 904 | rBV | 122564 | 207406 | 6.46% | 1.502% |
| 6 | 8.439 | 945 | 953 | 961 | rBV | 504613 | 859536 | 26.77% | 6.226% |
| 7 | 9.279 | 1087 | 1096 | 1105 | rBV | 440558 | 776968 | 24.20% | 5.628% |
| 8 | 10.930 | 1371 | 1377 | 1385 | rVB | 173060 | 303998 | 9.47% | 2.202% |
| 9 | 13.368 | 1784 | 1792 | 1800 | rBV | 1285344 | 1980534 | 61.69% | 14.346% |
| 10 | 14.737 | 2020 | 2025 | 2034 | rVB2 | 281312 | 469743 | 14.63% | 3.403% |
| 11 | 16.224 | 2270 | 2278 | 2293 | rBV | 1078947 | 1641510 | 51.13% | 11.890% |
| 12 | 17.481 | 2485 | 2492 | 2500 | rBV2 | 398369 | 607234 | 18.91% | 4.399% |
| 13 | 18.357 | 2636 | 2641 | 2647 | rBV2 | 53264 | 74639 | 2.32% | 0.541% |
| 14 | 19.620 | 2852 | 2856 | 2863 | rBV2 | 50528 | 77712 | 2.42% | 0.563% |
| 15 | 20.084 | 2929 | 2935 | 2942 | rBV | 2433093 | 3210403 | 100.00% | 23.255% |
| 16 | 20.766 | 3043 | 3051 | 3056 | rBV | 41024 | 71063 | 2.21% | 0.515% |
| 17 | 20.977 | 3084 | 3087 | 3092 | rBV2 | 27651 | 40175 | 1.25% | 0.291% |
| 18 | 21.030 | 3092 | 3096 | 3100 | rVV | 42598 | 59647 | 1.86% | 0.432% |
| 19 | 21.388 | 3154 | 3157 | 3165 | rVB8 | 20204 | 37468 | 1.17% | 0.271% |
| 20 | 21.535 | 3174 | 3182 | 3190 | rBV | 37903 | 81058 | 2.52% | 0.587% |
| 21 | 21.753 | 3213 | 3219 | 3228 | rVB | 478999 | 782828 | 24.38% | 5.670% |
| 22 | 25.031 | 3766 | 3777 | 3791 | rVB3 | 252746 | 717270 | 22.34% | 5.196% |

Sum of corrected areas: 13805382

LSC Report - Integrated Chromatogram

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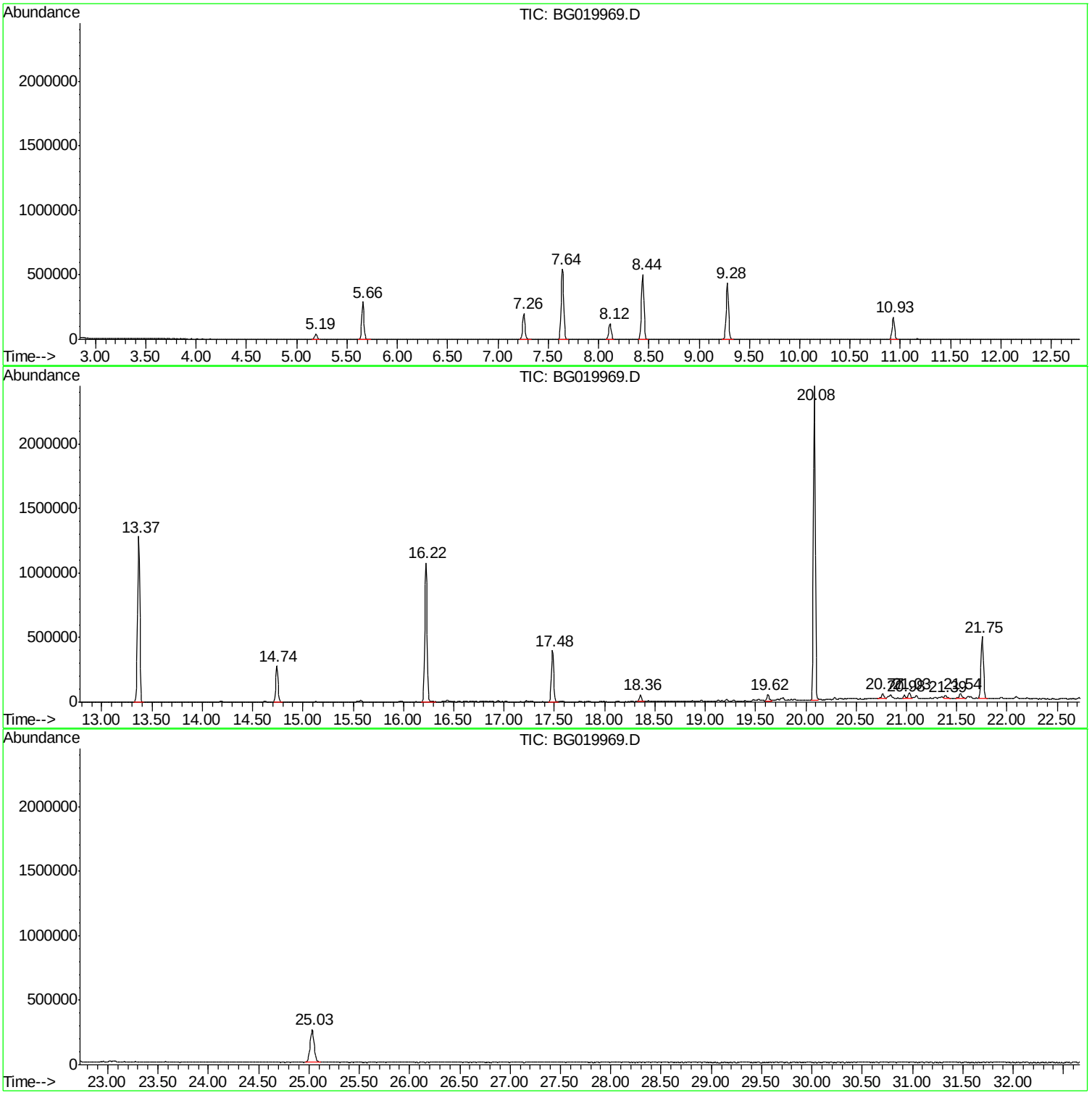
Data File : BG019969.D
Acq On : 6 Dec 2015 16:23
Operator : UM/NP
Sample : G4630-18
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** MW-12

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG120215.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 G\DATA\BG120615\
Data File : BG019969.D
Acq On : 6 Dec 2015 16:23
Operator : UM/NP
Sample : G4630-18
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** MW-12

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG120215.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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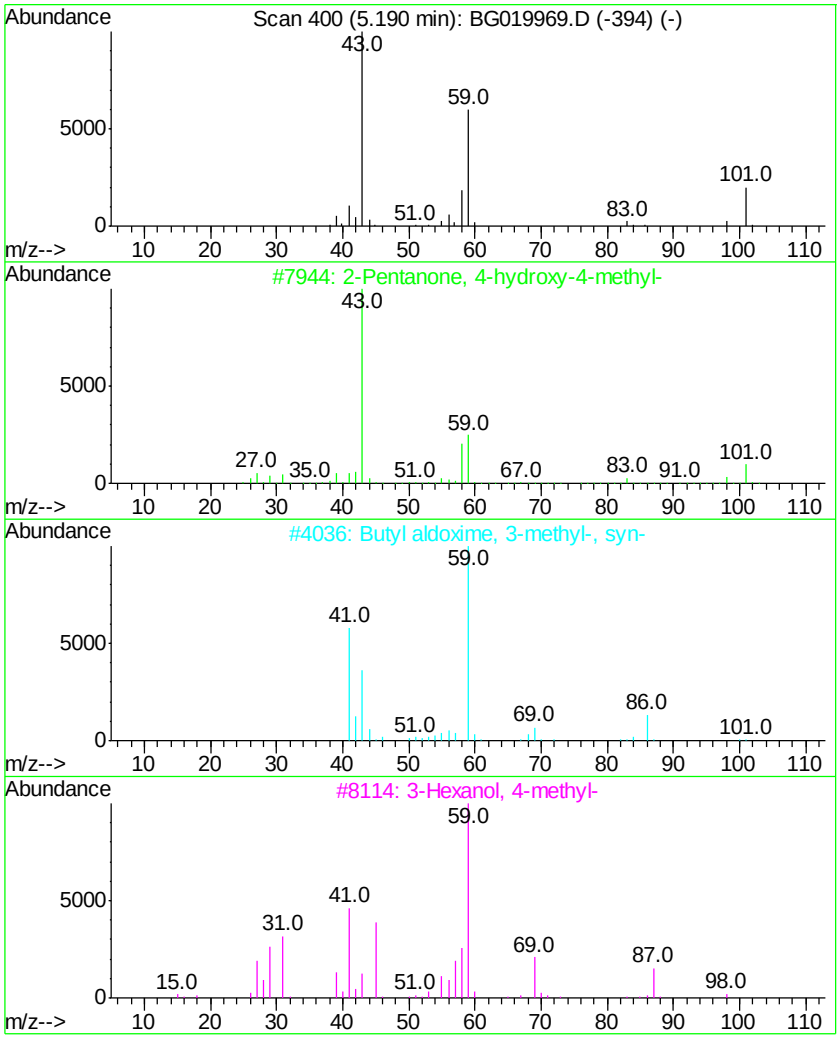
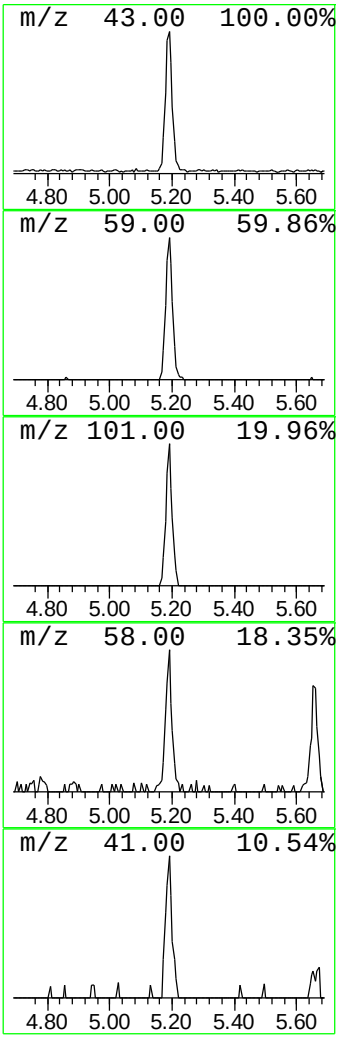
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.19 | 6.27 ng | 64982 | 1,4-Dichlorobenzene-d4 | 8.12 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 56 |
| 2 | Butyl aldoxime, 3-methyl-, syn- | 101 | C5H11NO | 005780-40-5 | 35 |
| 3 | 3-Hexanol, 4-methyl- | 116 | C7H16O | 000615-29-2 | 28 |
| 4 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 25 |
| 5 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 17 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG120615\
Data File : BG019969.D
Acq On : 6 Dec 2015 16:23
Operator : UM/NP
Sample : G4630-18
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** MW-12

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG120215.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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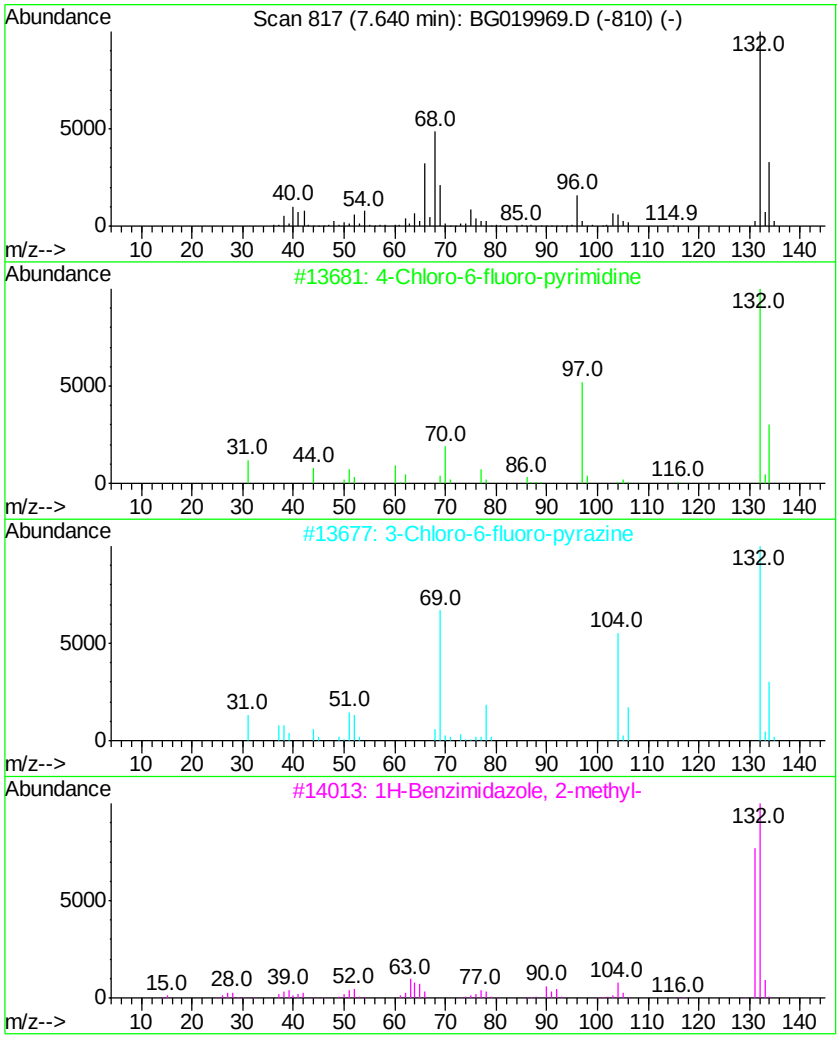
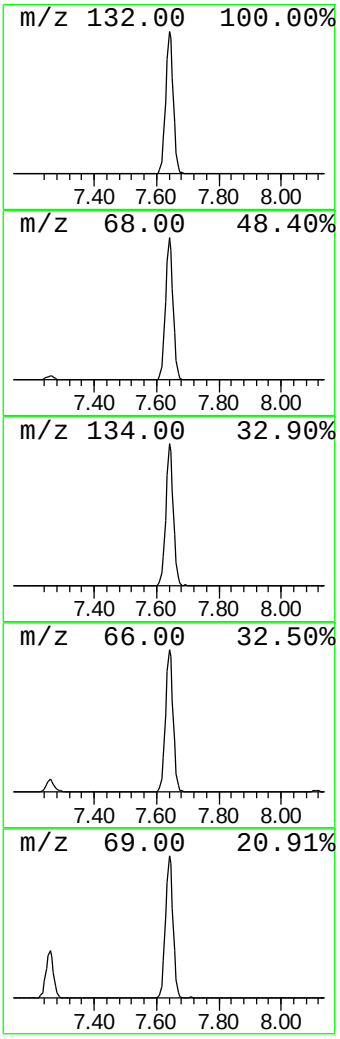
Peak Number 2 unknown7.64 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.64 | 90.02 ng | 933568 | 1,4-Dichlorobenzene-d4 | 8.12 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4-Chloro-6-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-01-6 | 27 |
| 2 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 27 |
| 3 | 1H-Benzimidazole, 2-methyl- | 132 | C8H8N2 | 000615-15-6 | 22 |
| 4 | Benzene, 1,3,5-trifluoro- | 132 | C6H3F3 | 000372-38-3 | 14 |
| 5 | 1,3-Cyclopentanedione, 2-chloro- | 132 | C5H5ClO2 | 014203-19-1 | 13 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG120615\
Data File : BG019969.D
Acq On : 6 Dec 2015 16:23
Operator : UM/NP
Sample : G4630-18
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** MW-12

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG120215.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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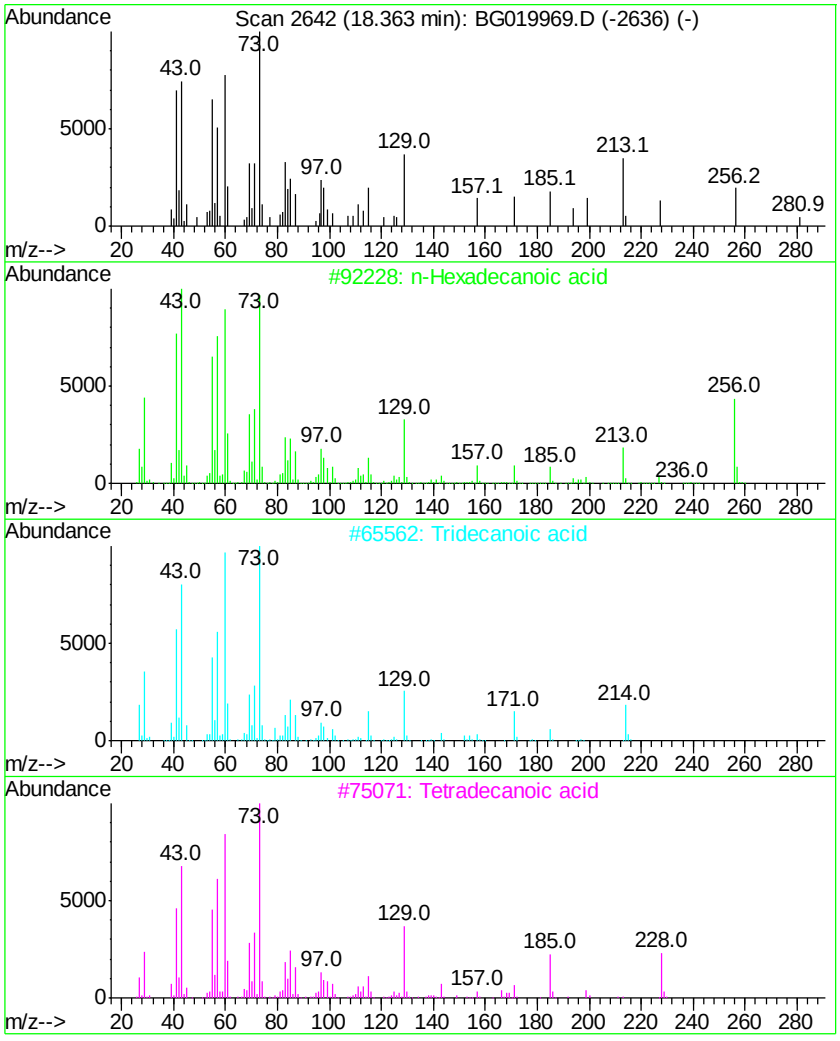
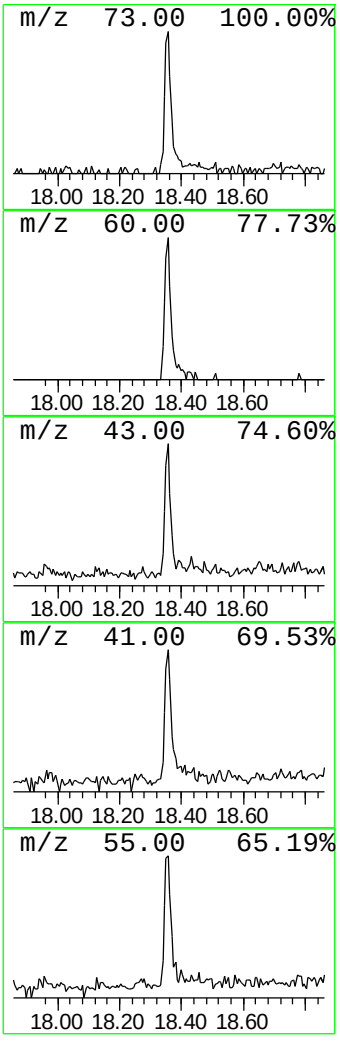
Peak Number 4 n-Hexadecanoic acid Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.36 | 2.46 ng | 74639 | Phenanthrene-d10 | 17.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 97 |
| 2 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 81 |
| 3 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 70 |
| 4 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 50 |
| 5 | Undecanoic acid | 186 | C11H22O2 | 000112-37-8 | 50 |



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Data File : BG019969.D
Acq On : 6 Dec 2015 16:23
Operator : UM/NP
Sample : G4630-18
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** MW-12

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG120215.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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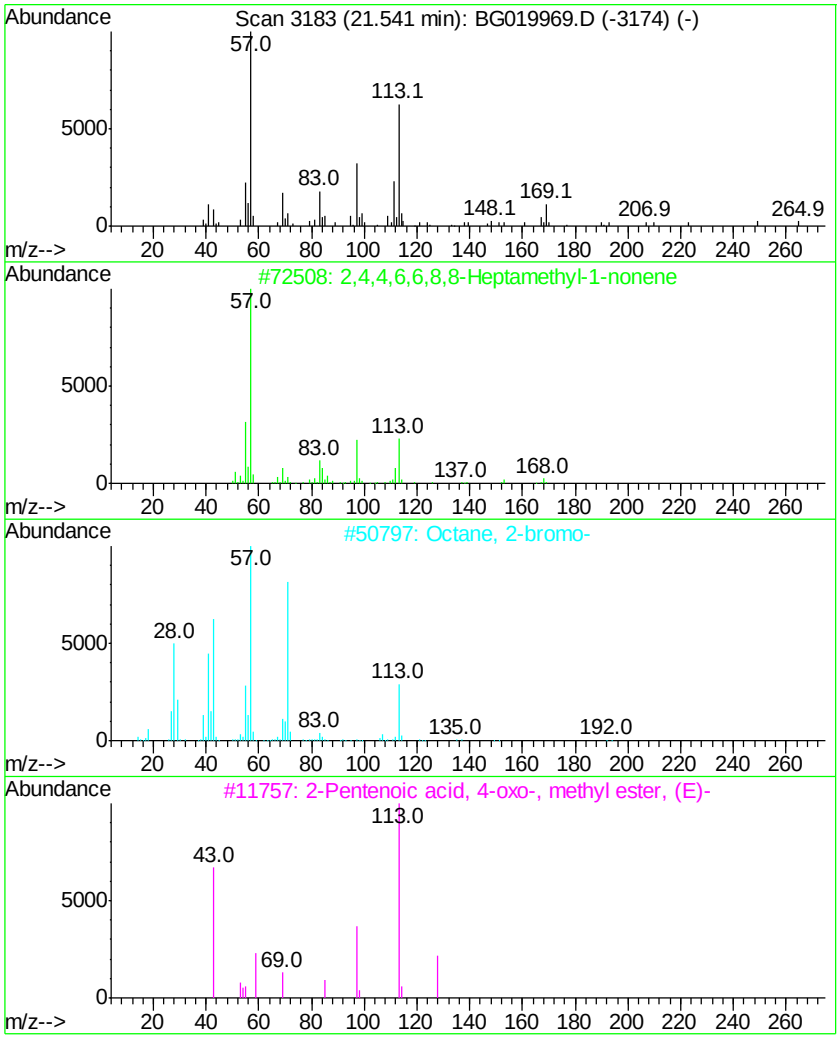
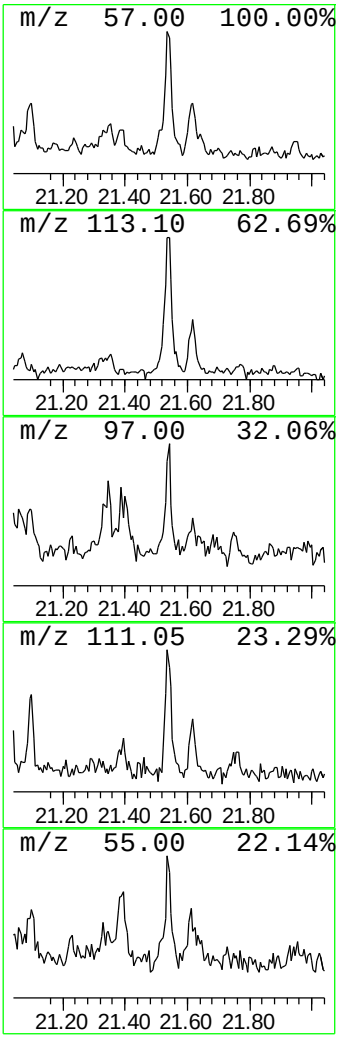
Peak Number 5 unknown21.54 Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.54 | 2.07 ng | 81058 | Chrysene-d12 | 21.75 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,4,4,6,6,8,8-Heptamethyl-1-nonene | 224 | C16H32 | 015796-04-0 | 43 |
| 2 | Octane, 2-bromo- | 192 | C8H17Br | 000557-35-7 | 43 |
| 3 | 2-Pentenoic acid, 4-oxo-, methyl... | 128 | C6H8O3 | 002833-24-1 | 43 |
| 4 | Silane, butyldichloromethyl- | 170 | C5H12Cl2Si | 018147-23-4 | 27 |
| 5 | Pyrazole, 3-nitro- | 113 | C3H3N3O2 | 026621-44-3 | 27 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG120615\
Data File : BG019969.D
Acq On : 6 Dec 2015 16:23
Operator : UM/NP
Sample : G4630-18
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** MW-12

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG120215.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... | 5.19 | 6.3 | ng | 64982 | 1 | 8.12 | 207406 | 20.0 |
| unknown7.64 | 7.64 | 90.0 | ng | 933568 | 1 | 8.12 | 207406 | 20.0 |
| n-Hexadecanoic acid | 18.36 | 2.5 | ng | 74639 | 4 | 17.48 | 607234 | 20.0 |
| unknown21.54 | 21.54 | 2.1 | ng | 81058 | 5 | 21.75 | 782828 | 20.0 |