LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051416\
Data File : BF087033.D
Acq On : 14 May 2016 21:37
Operator : UM/SJ
Sample : PB90575BL
Misc :
ALS Vial : 55 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PB90575BL

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-BF050916.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 | 1.735 | 11 | 13 | 58 | rVB | 2507106 | 5039027 | 100.00% | 11.986% |
| 2 | 4.033 | 211 | 214 | 225 | rBV | 55715 | 123216 | 2.45% | 0.293% |
| 3 | 4.753 | 274 | 277 | 293 | rBV | 659978 | 1177006 | 23.36% | 2.800% |
| 4 | 5.210 | 314 | 317 | 319 | rBV | 3823169 | 3909924 | 77.59% | 9.300% |
| 5 | 5.610 | 350 | 352 | 361 | rVB | 53460 | 68420 | 1.36% | 0.163% |
| 6 | 6.273 | 408 | 410 | 413 | rBV | 2784383 | 4041831 | 80.21% | 9.614% |
| 7 | 6.387 | 417 | 420 | 422 | rBV | 3853510 | 4179829 | 82.95% | 9.942% |
| 8 | 6.604 | 437 | 439 | 442 | rBV | 713975 | 933604 | 18.53% | 2.221% |
| 9 | 6.764 | 450 | 453 | 456 | rBV | 3262512 | 2967121 | 58.88% | 7.058% |
| 10 | 7.187 | 487 | 490 | 492 | rBV | 2555864 | 2845669 | 56.47% | 6.769% |
| 11 | 7.896 | 550 | 552 | 555 | rBV | 1266047 | 1221682 | 24.24% | 2.906% |
| 12 | 8.982 | 644 | 647 | 649 | rBV | 3905975 | 4538290 | 90.06% | 10.795% |
| 13 | 9.645 | 702 | 705 | 708 | rBV | 1459150 | 1362615 | 27.04% | 3.241% |
| 14 | 10.433 | 771 | 774 | 777 | rBV | 2392024 | 2425251 | 48.13% | 5.769% |
| 15 | 11.119 | 832 | 834 | 837 | rBV | 1253056 | 1310738 | 26.01% | 3.118% |
| 16 | 12.536 | 956 | 958 | 961 | rBV | 64680 | 89386 | 1.77% | 0.213% |
| 17 | 12.708 | 970 | 973 | 976 | rBV | 3853257 | 3855107 | 76.50% | 9.170% |
| 18 | 13.245 | 1018 | 1020 | 1022 | rBV | 67620 | 56042 | 1.11% | 0.133% |
| 19 | 13.748 | 1061 | 1064 | 1073 | rBV | 1068784 | 1024995 | 20.34% | 2.438% |
| 20 | 15.108 | 1180 | 1183 | 1192 | rBV | 698828 | 872125 | 17.31% | 2.074% |

Sum of corrected areas: 42041878

LSC Report - Integrated Chromatogram

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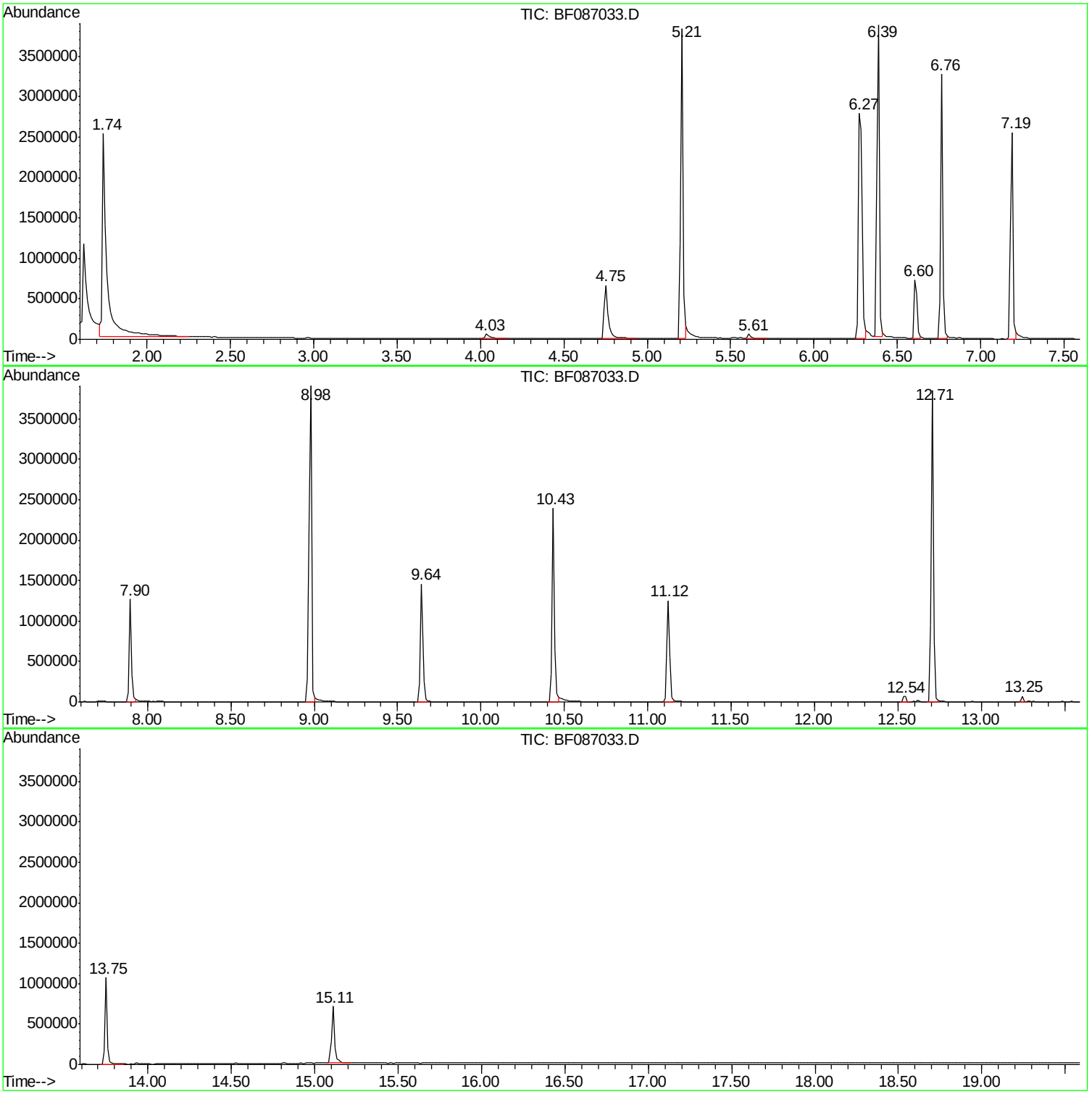
Operator : UM/SJ
Sample : PB90575BL
Misc :
ALS Vial : 55 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PB90575BL

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051416\
Data File : BF087033.D
Acq On : 14 May 2016 21:37
Operator : UM/SJ
Sample : PB90575BL
Misc :
ALS Vial : 55 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PB90575BL

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.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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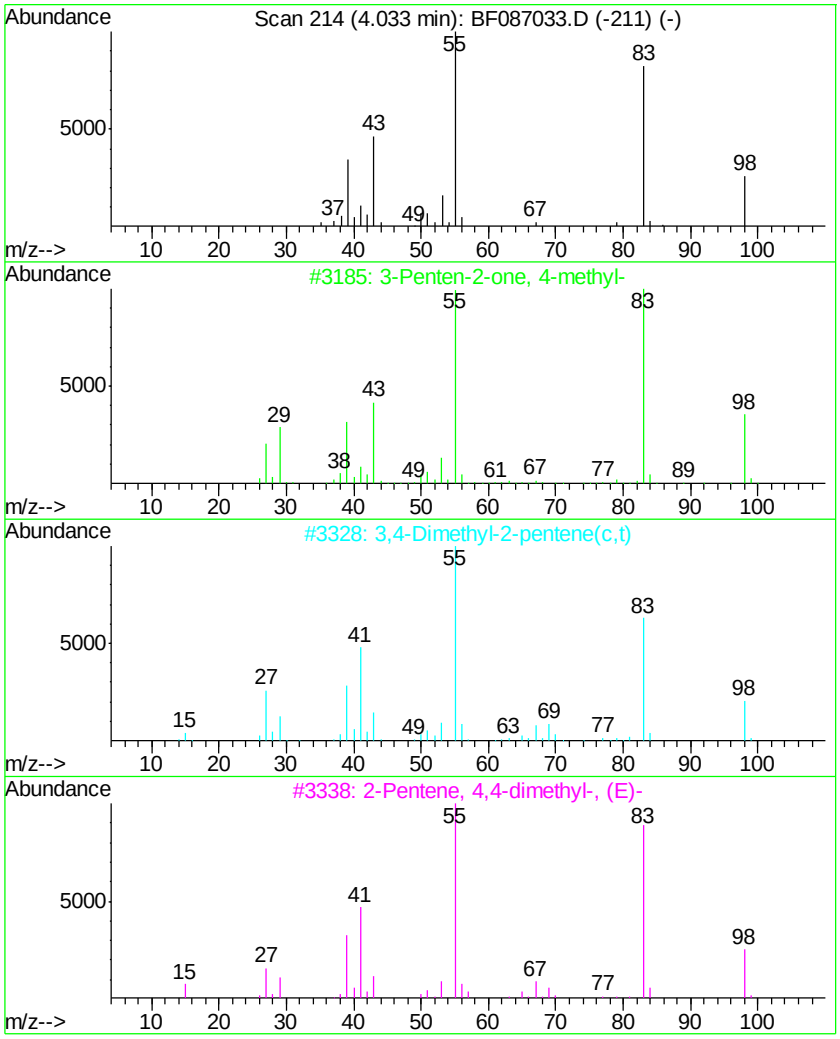
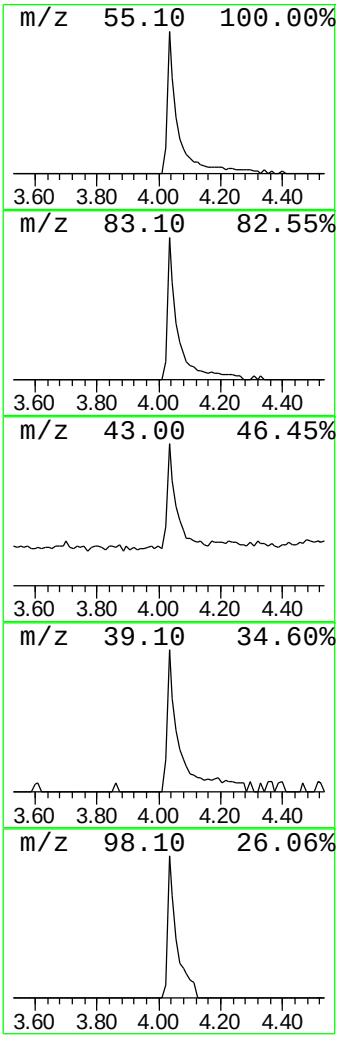
Peak Number 2 3-Penten-2-one, 4-methyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.03 | 2.64 ng | 123216 | 1,4-Dichlorobenzene-d4 | 6.62 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Penten-2-one, 4-methyl- | 98 | C6H10O | 000141-79-7 | 90 |
| 2 | 3,4-Dimethyl-2-pentene(c,t) | 98 | C7H14 | 1000118-16-5 | 72 |
| 3 | 2-Pentene, 4,4-dimethyl-, (E)- | 98 | C7H14 | 000690-08-4 | 72 |
| 4 | 2-Pentene, 3,4-dimethyl-, (Z)- | 98 | C7H14 | 004914-91-4 | 72 |
| 5 | 2-Pentene, 4,4-dimethyl-, (Z)- | 98 | C7H14 | 000762-63-0 | 72 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051416\
Data File : BF087033.D
Acq On : 14 May 2016 21:37
Operator : UM/SJ
Sample : PB90575BL
Misc :
ALS Vial : 55 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PB90575BL

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.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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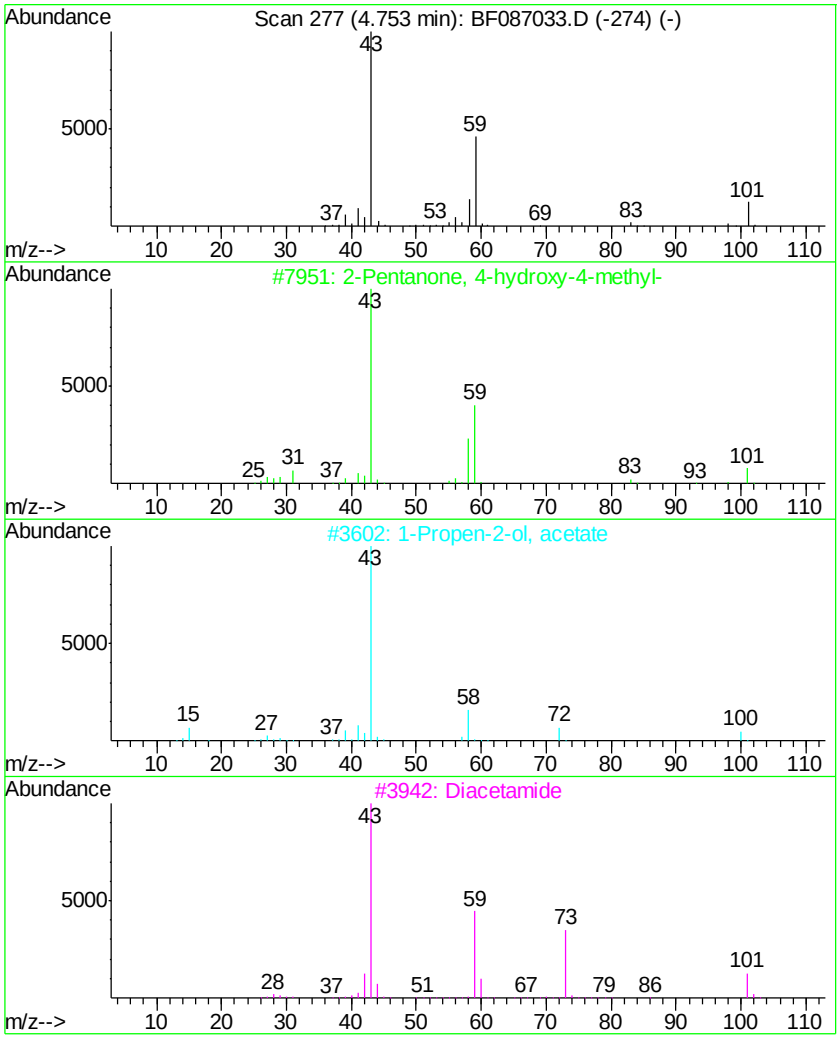
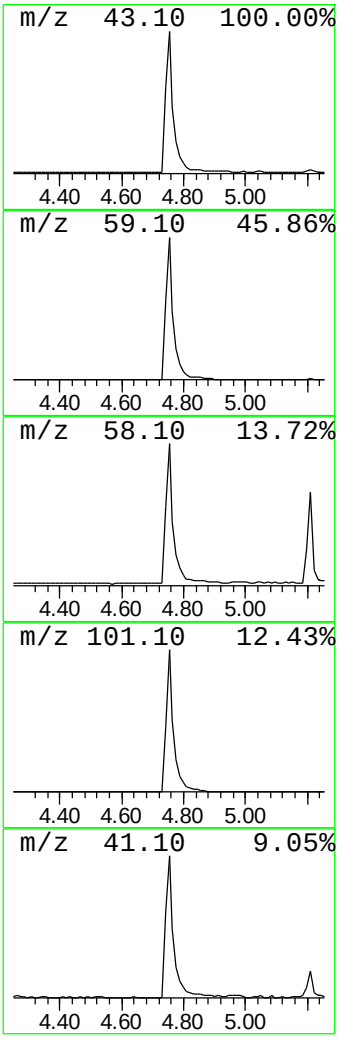
Peak Number 3 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.75 | 25.21 ng | 1177010 | 1,4-Dichlorobenzene-d4 | 6.62 |

| 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 | Diacetamide | 101 | C4H7NO2 | 000625-77-4 | 9 |
| 4 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 9 |
| 5 | 2-Propanone, 1-(1-methylethoxy)- | 116 | C6H12O2 | 042781-12-4 | 9 |



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Data File : BF087033.D
Acq On : 14 May 2016 21:37
Operator : UM/SJ
Sample : PB90575BL
Misc :
ALS Vial : 55 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PB90575BL

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.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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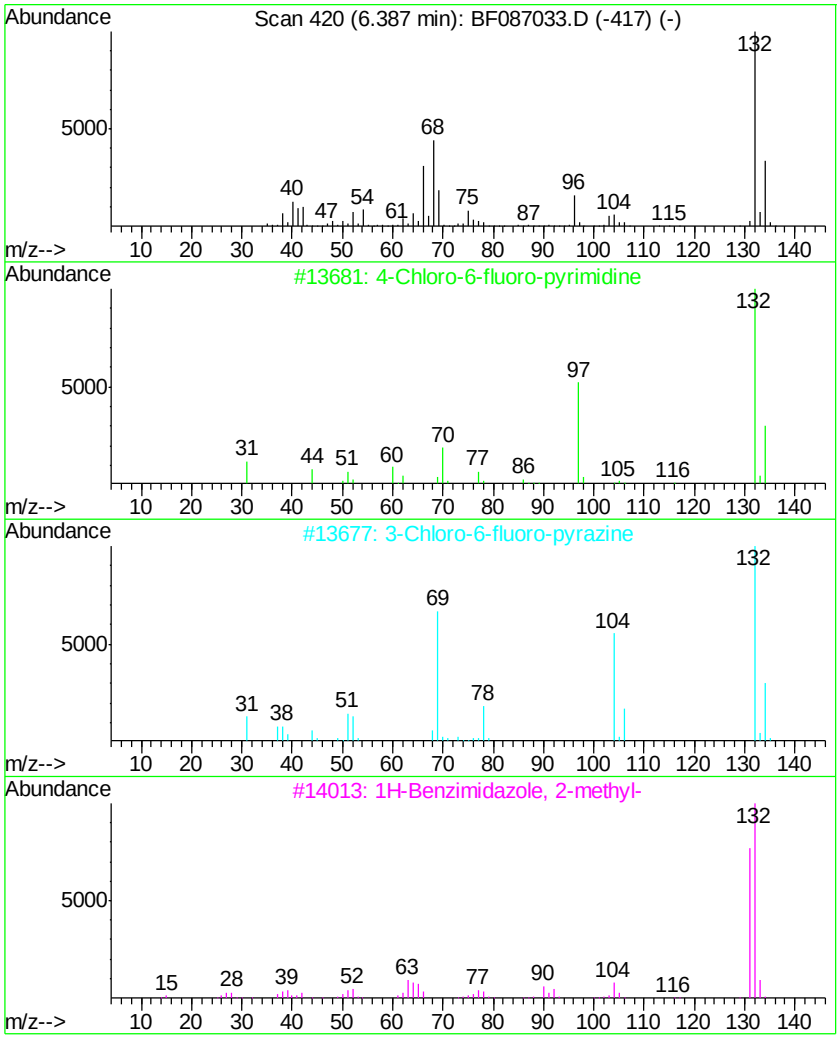
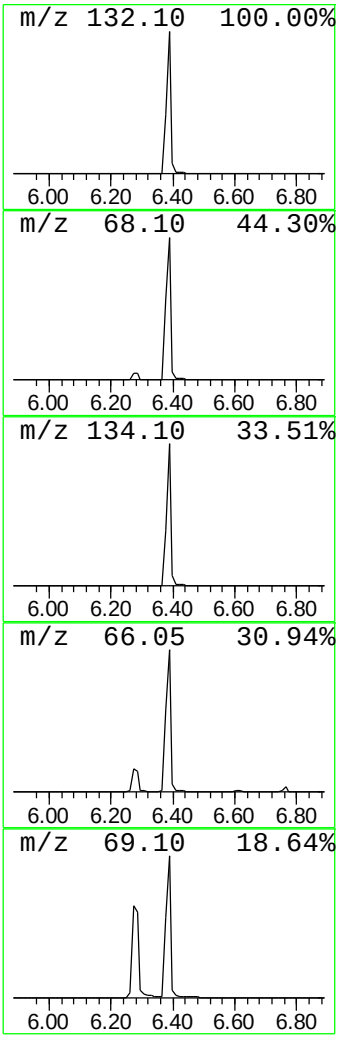
Peak Number 4 unknown6.39 Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.39 | 89.54 ng | 4179830 | 1,4-Dichlorobenzene-d4 | 6.62 |

| 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 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 16 |
| 5 | (5-METHYL-2-PYRIDYL)ACETONITRILE | 132 | C8H8N2 | 1000241-93-9 | 10 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051416\
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Operator : UM/SJ
Sample : PB90575BL
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**Instrument :** BNA_F
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.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 |
| 3-Penten-2-one, 4... | 4.03 | 2.6 | ng | 123216 | 1 | 6.62 | 933604 | 20.0 |
| 2-Pentanone, 4-hy... | 4.75 | 25.2 | ng | 1177010 | 1 | 6.62 | 933604 | 20.0 |
| unknown6.39 | 6.39 | 89.5 | ng | 4179830 | 1 | 6.62 | 933604 | 20.0 |