LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121715\
Data File : BF083870.D
Acq On : 17 Dec 2015 6:20
Operator : UM/SJ
Sample : G4775-17
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** COMPOSITE-B-20150873

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-BF121315.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 | 4.453 | 204 | 207 | 213 | rBV | 366165 | 439581 | 15.53% | 1.934% |
| 2 | 5.093 | 260 | 263 | 268 | rBV | 368460 | 479355 | 16.93% | 2.109% |
| 3 | 5.516 | 297 | 300 | 302 | rBV | 1748498 | 1956993 | 69.13% | 8.610% |
| 4 | 6.533 | 386 | 389 | 391 | rBV | 1568622 | 1857256 | 65.61% | 8.171% |
| 5 | 6.659 | 398 | 400 | 403 | rBV | 1579489 | 2035792 | 71.91% | 8.956% |
| 6 | 6.887 | 418 | 420 | 423 | rBV | 604442 | 626616 | 22.14% | 2.757% |
| 7 | 7.047 | 432 | 434 | 437 | rBV | 1778051 | 1669963 | 58.99% | 7.347% |
| 8 | 7.402 | 463 | 465 | 467 | rBV | 55135 | 40356 | 1.43% | 0.178% |
| 9 | 7.459 | 467 | 470 | 472 | rBV | 1030286 | 1442142 | 50.94% | 6.345% |
| 10 | 8.179 | 530 | 533 | 537 | rBV2 | 937734 | 1308753 | 46.23% | 5.758% |
| 11 | 8.888 | 593 | 595 | 597 | rBV | 94495 | 77959 | 2.75% | 0.343% |
| 12 | 8.991 | 601 | 604 | 606 | rVB | 48602 | 43624 | 1.54% | 0.192% |
| 13 | 9.253 | 624 | 627 | 629 | rBV | 2904083 | 2686229 | 94.89% | 11.818% |
| 14 | 9.928 | 684 | 686 | 688 | rBV | 1106691 | 1046476 | 36.97% | 4.604% |
| 15 | 10.133 | 702 | 704 | 707 | rVB | 58818 | 48980 | 1.73% | 0.215% |
| 16 | 10.476 | 732 | 734 | 736 | rVB | 67402 | 55626 | 1.96% | 0.245% |
| 17 | 10.716 | 752 | 755 | 758 | rBV | 1630121 | 1587337 | 56.07% | 6.983% |
| 18 | 11.414 | 813 | 816 | 818 | rBV | 1244750 | 1117098 | 39.46% | 4.915% |
| 19 | 13.002 | 952 | 955 | 957 | rBV | 2407178 | 2830859 | 100.00% | 12.454% |
| 20 | 14.042 | 1044 | 1046 | 1049 | rBV | 662476 | 738694 | 26.09% | 3.250% |
| 21 | 15.494 | 1170 | 1173 | 1183 | rBV | 397405 | 640580 | 22.63% | 2.818% |

Sum of corrected areas: 22730269

LSC Report - Integrated Chromatogram

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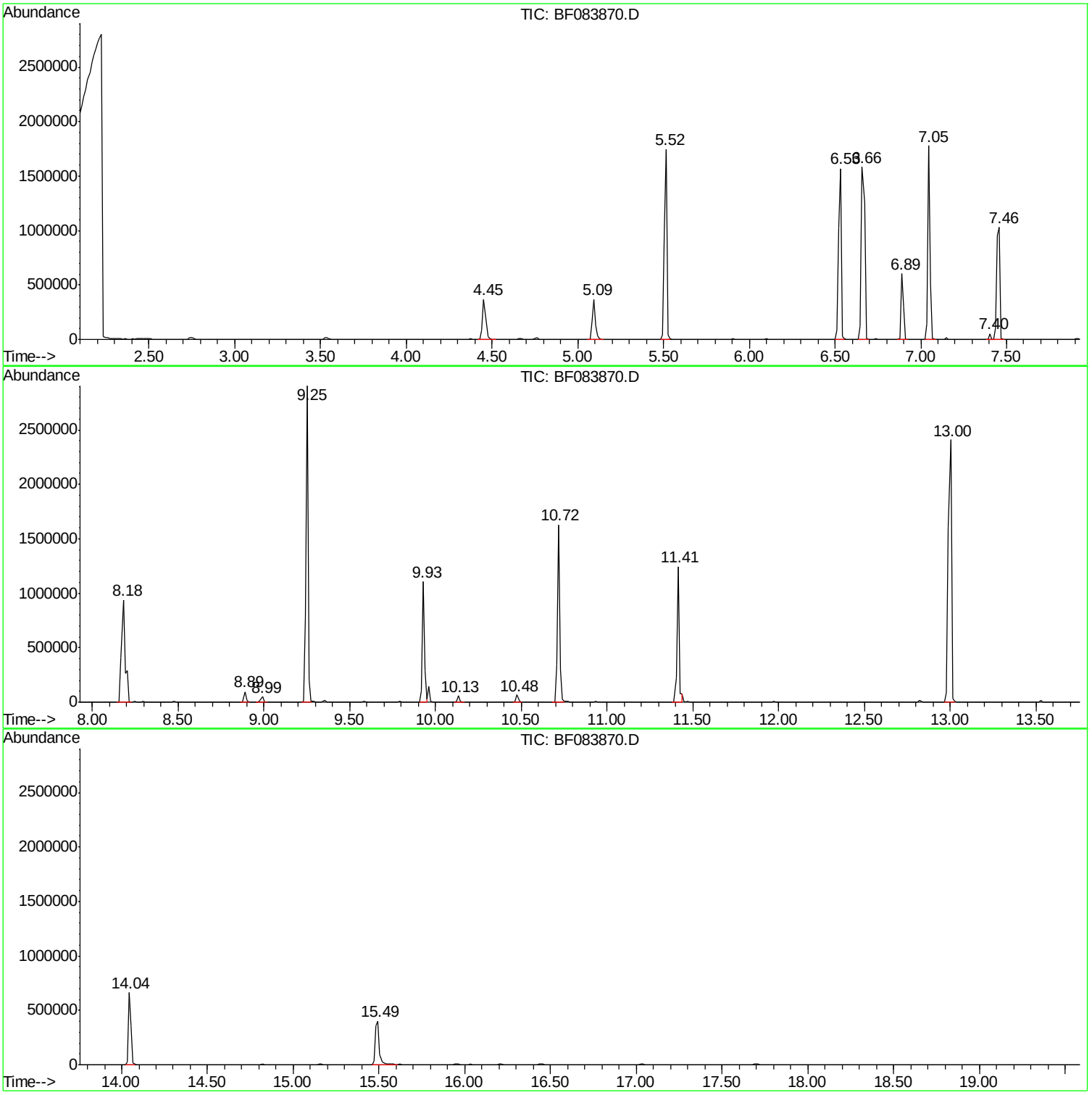
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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TIC Integration Parameters: LSCINT.P

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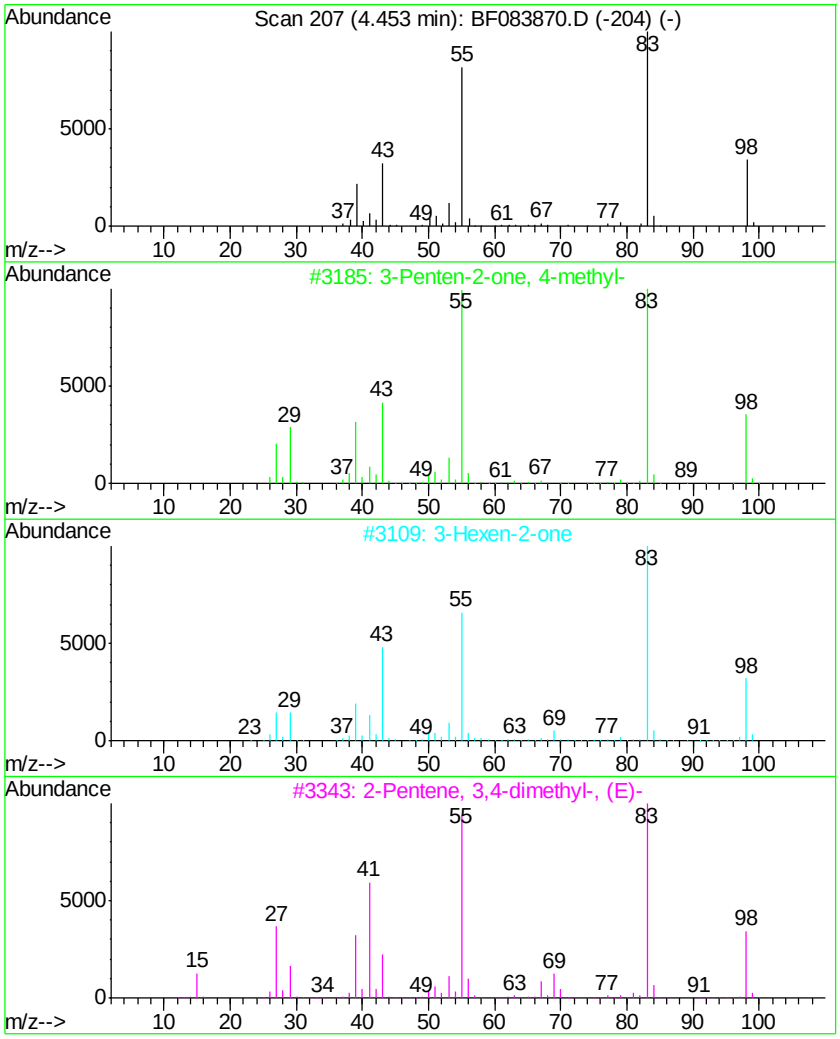
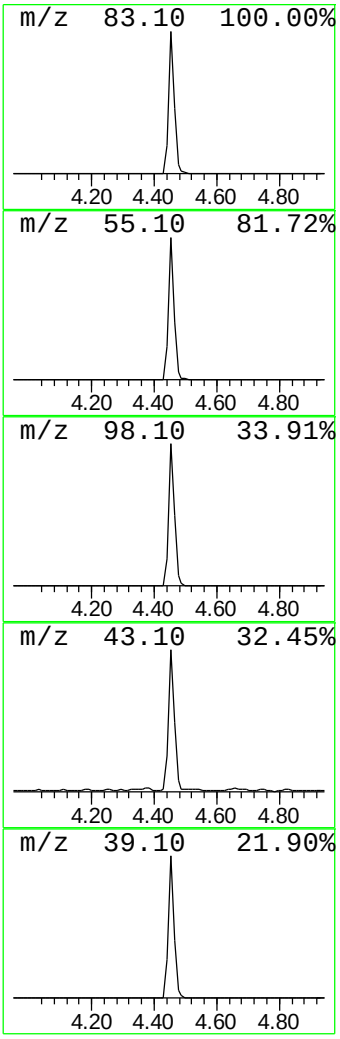
Peak Number 1 3-Penten-2-one, 4-methyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.45 | 14.03 ng | 439581 | 1,4-Dichlorobenzene-d4 | 6.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Penten-2-one, 4-methyl- | 98 | C6H10O | 000141-79-7 | 91 |
| 2 | 3-Hexen-2-one | 98 | C6H10O | 000763-93-9 | 91 |
| 3 | 2-Pentene, 3,4-dimethyl-, (E)- | 98 | C7H14 | 004914-92-5 | 90 |
| 4 | 2-Pentene, 3,4-dimethyl-, (Z)- | 98 | C7H14 | 004914-91-4 | 86 |
| 5 | 2-Pentene, 2,4-dimethyl- | 98 | C7H14 | 000625-65-0 | 80 |



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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121315.M
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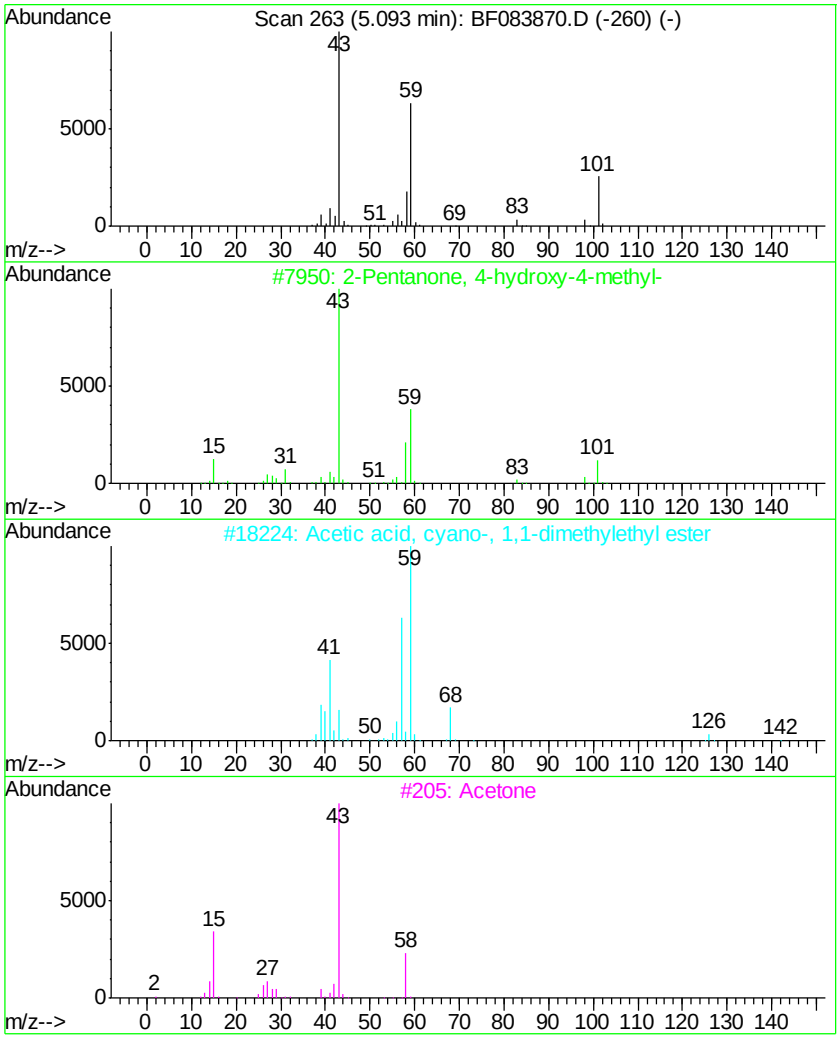
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

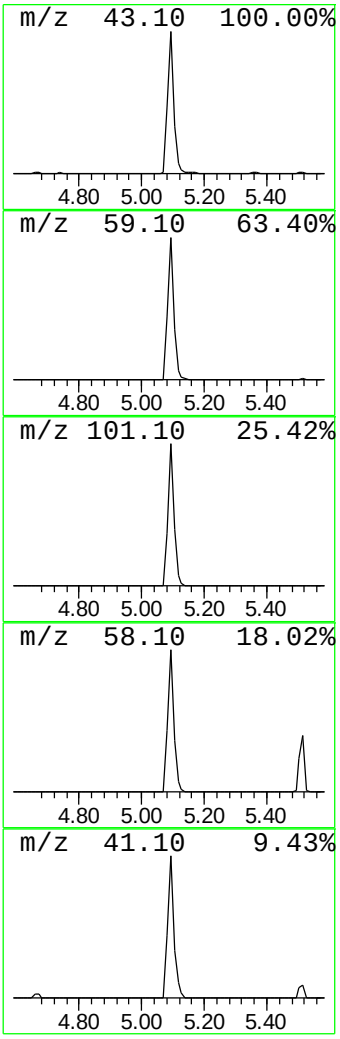
**********

Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.09 | 15.30 ng | 479355 | 1,4-Dichlorobenzene-d4 | 6.89 |

| 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 | 25 |
| 3 | Acetone | 58 | C3H6O | 000067-64-1 | 10 |
| 4 | Morpholine, 4-methyl- | 101 | C5H11NO | 000109-02-4 | 9 |
| 5 | 5-Hexen-2-one | 98 | C6H10O | 000109-49-9 | 9 |



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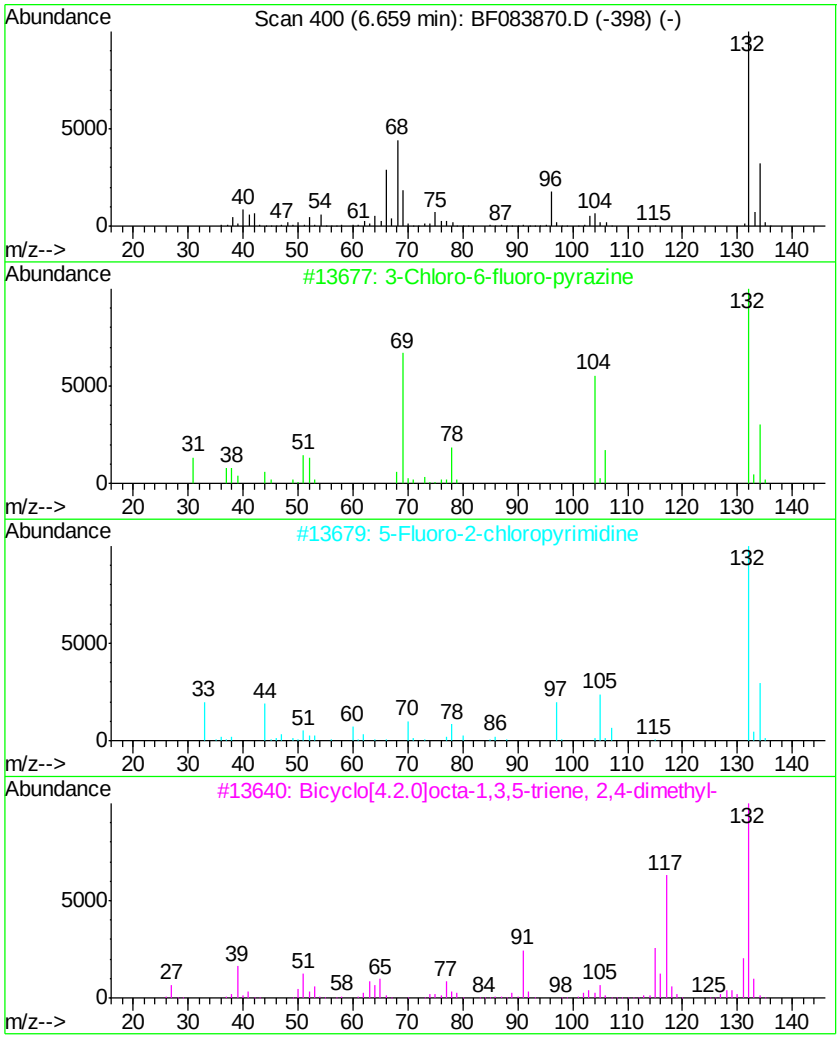
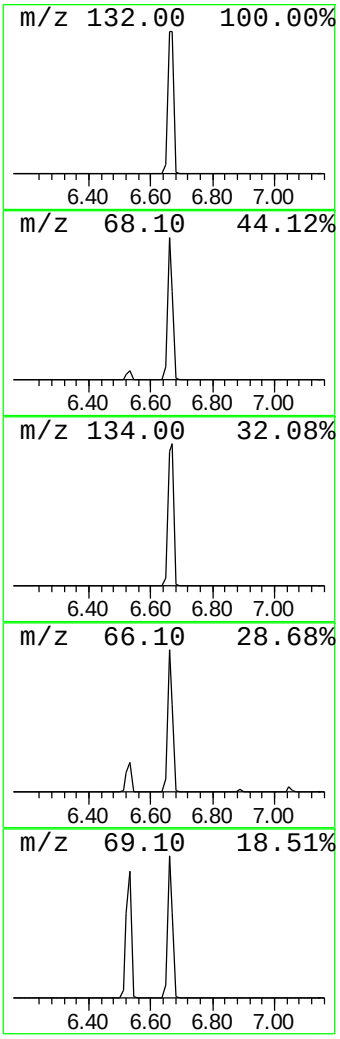
Peak Number 3 unknown6.66 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.66 | 64.98 ng | 2035790 | 1,4-Dichlorobenzene-d4 | 6.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 27 |
| 2 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 12 |
| 3 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12 | 028749-81-7 | 9 |
| 4 | 1-Methylpyrrolo[1,2-a]pyrazine | 132 | C8H8N2 | 064608-59-9 | 9 |
| 5 | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2 | 022291-85-6 | 9 |



Tentatively Identified Compound (LSC) summary

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| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| 3-Penten-2-one, 4... | 4.45 | 14.0 | ng | 439581 | 1 | 6.89 | 626616 | 20.0 |
| 2-Pentanone, 4-hy... | 5.09 | 15.3 | ng | 479355 | 1 | 6.89 | 626616 | 20.0 |
| unknown6.66 | 6.66 | 65.0 | ng | 2035790 | 1 | 6.89 | 626616 | 20.0 |