LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121115\
Data File : BF083718.D
Acq On : 12 Dec 2015 2:06
Operator : UM/IZ
Sample : G4739-14
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** K211-15-16

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-BF121115.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 | 2.235 | 11 | 13 | 33 | rVB3 | 73866 | 241463 | 5.29% | 0.665% |
| 2 | 5.116 | 262 | 265 | 271 | rBV | 748437 | 1151207 | 25.23% | 3.171% |
| 3 | 5.527 | 298 | 301 | 304 | rBV | 2585538 | 3853249 | 84.45% | 10.614% |
| 4 | 5.927 | 334 | 336 | 339 | rBV | 36024 | 49092 | 1.08% | 0.135% |
| 5 | 6.544 | 387 | 390 | 393 | rBV | 2708654 | 3618381 | 79.30% | 9.967% |
| 6 | 6.693 | 400 | 403 | 405 | rBV | 3646475 | 3817687 | 83.67% | 10.516% |
| 7 | 6.922 | 421 | 423 | 425 | rBV | 932113 | 781669 | 17.13% | 2.153% |
| 8 | 7.082 | 434 | 437 | 439 | rBV | 3326711 | 2962378 | 64.92% | 8.160% |
| 9 | 7.482 | 469 | 472 | 474 | rBV | 2325076 | 2286637 | 50.11% | 6.299% |
| 10 | 8.202 | 533 | 535 | 538 | rBV | 790881 | 988535 | 21.66% | 2.723% |
| 11 | 9.288 | 627 | 630 | 632 | rBV | 4324101 | 4562928 | 100.00% | 12.569% |
| 12 | 9.676 | 661 | 664 | 666 | rBV | 836276 | 757153 | 16.59% | 2.086% |
| 13 | 9.905 | 682 | 684 | 686 | rVB | 62514 | 56179 | 1.23% | 0.155% |
| 14 | 9.962 | 686 | 689 | 691 | rBV | 1234069 | 1148454 | 25.17% | 3.163% |
| 15 | 10.396 | 726 | 727 | 729 | rVB | 68007 | 70646 | 1.55% | 0.195% |
| 16 | 10.625 | 743 | 747 | 750 | rBV2 | 26150 | 46187 | 1.01% | 0.127% |
| 17 | 10.739 | 755 | 757 | 760 | rBV2 | 2048714 | 2663259 | 58.37% | 7.336% |
| 18 | 10.876 | 767 | 769 | 774 | rBV | 62802 | 105628 | 2.31% | 0.291% |
| 19 | 11.322 | 804 | 808 | 809 | rBV | 56966 | 60177 | 1.32% | 0.166% |
| 20 | 11.436 | 816 | 818 | 821 | rVB | 1284216 | 1130835 | 24.78% | 3.115% |
| 21 | 11.962 | 862 | 864 | 866 | rBV | 38234 | 53848 | 1.18% | 0.148% |
| 22 | 13.025 | 954 | 957 | 959 | rBV | 4294758 | 4148014 | 90.91% | 11.426% |
| 23 | 13.928 | 1033 | 1036 | 1040 | rBV | 30253 | 53307 | 1.17% | 0.147% |
| 24 | 14.065 | 1046 | 1048 | 1050 | rBV | 1159359 | 1021243 | 22.38% | 2.813% |
| 25 | 15.505 | 1171 | 1174 | 1177 | rBV | 571801 | 675784 | 14.81% | 1.861% |

Sum of corrected areas: 36303940

LSC Report - Integrated Chromatogram

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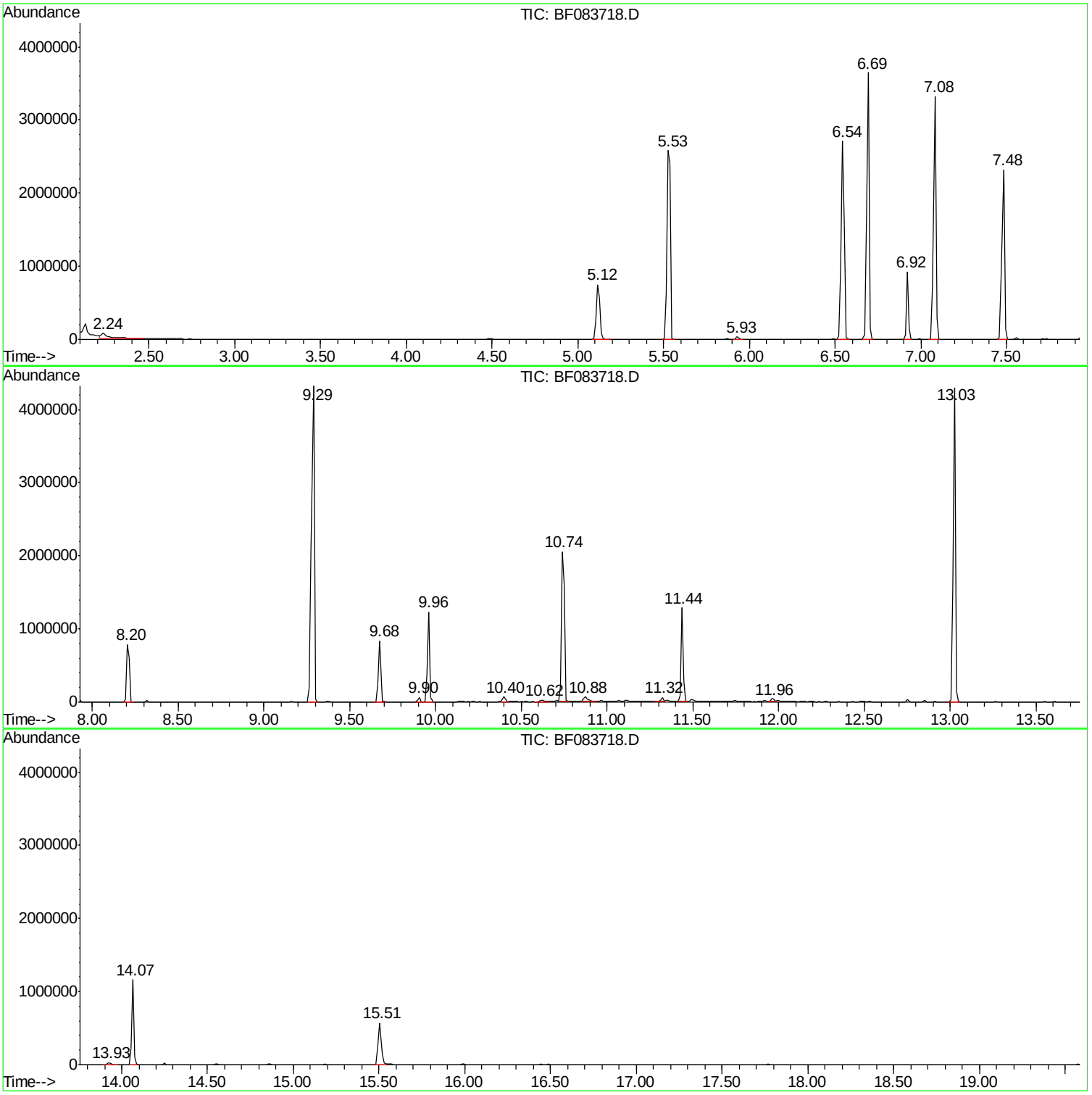
**Instrument :** BNA_F
**ClientSampleId :** K211-15-16

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121115.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 F\DATA\BF121115\
Data File : BF083718.D
Acq On : 12 Dec 2015 2:06
Operator : UM/IZ
Sample : G4739-14
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** K211-15-16

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121115.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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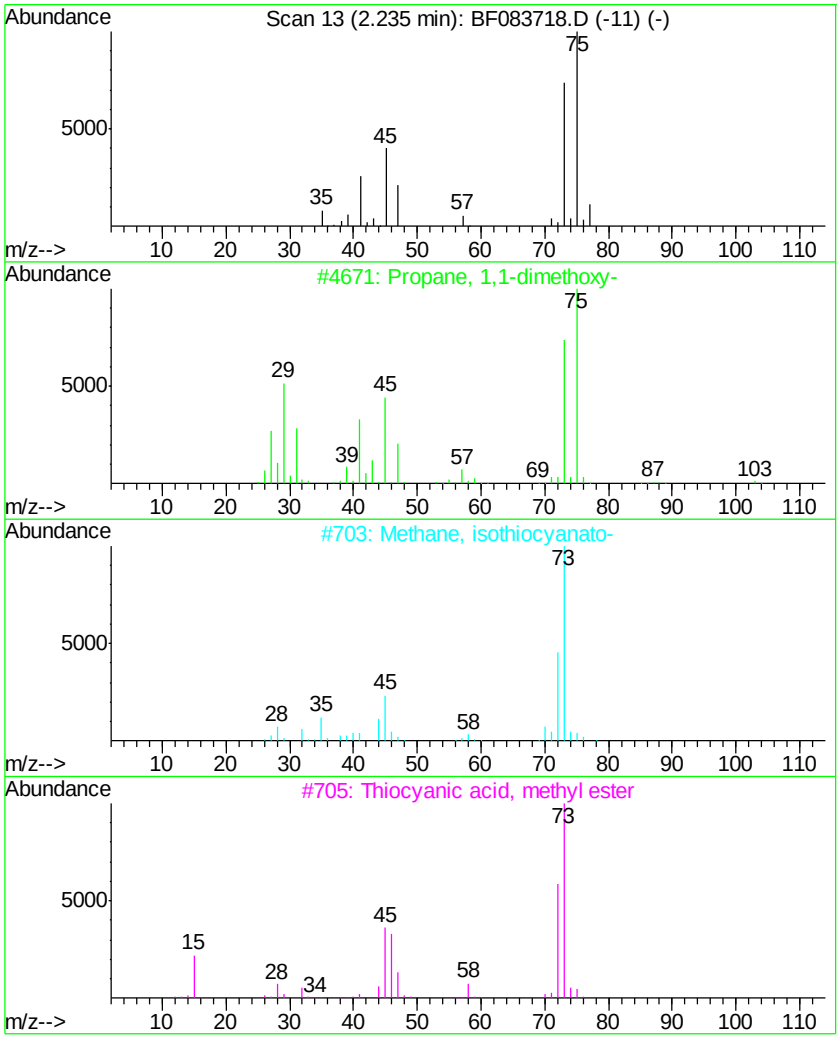
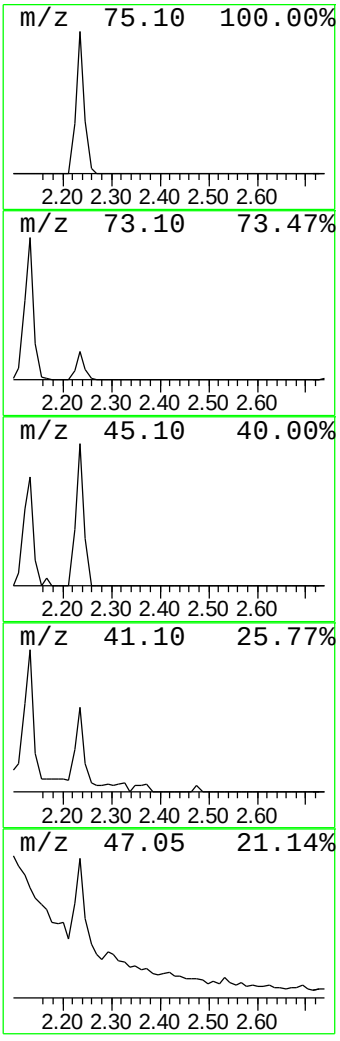
Peak Number 1 Propane, 1,1-dimethoxy- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.24 | 6.18 ng | 241463 | 1,4-Dichlorobenzene-d4 | 6.92 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Propane, 1,1-dimethoxy- | 104 | C5H12O2 | 004744-10-9 | 72 |
| 2 | Methane, isothiocyanato- | 73 | C2H3NS | 000556-61-6 | 4 |
| 3 | Thiocyanic acid, methyl ester | 73 | C2H3NS | 000556-64-9 | 4 |
| 4 | Glycine | 75 | C2H5NO2 | 000056-40-6 | 4 |
| 5 | Pentane, 3-methoxy- | 102 | C6H14O | 036839-67-5 | 4 |



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Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** K211-15-16

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121115.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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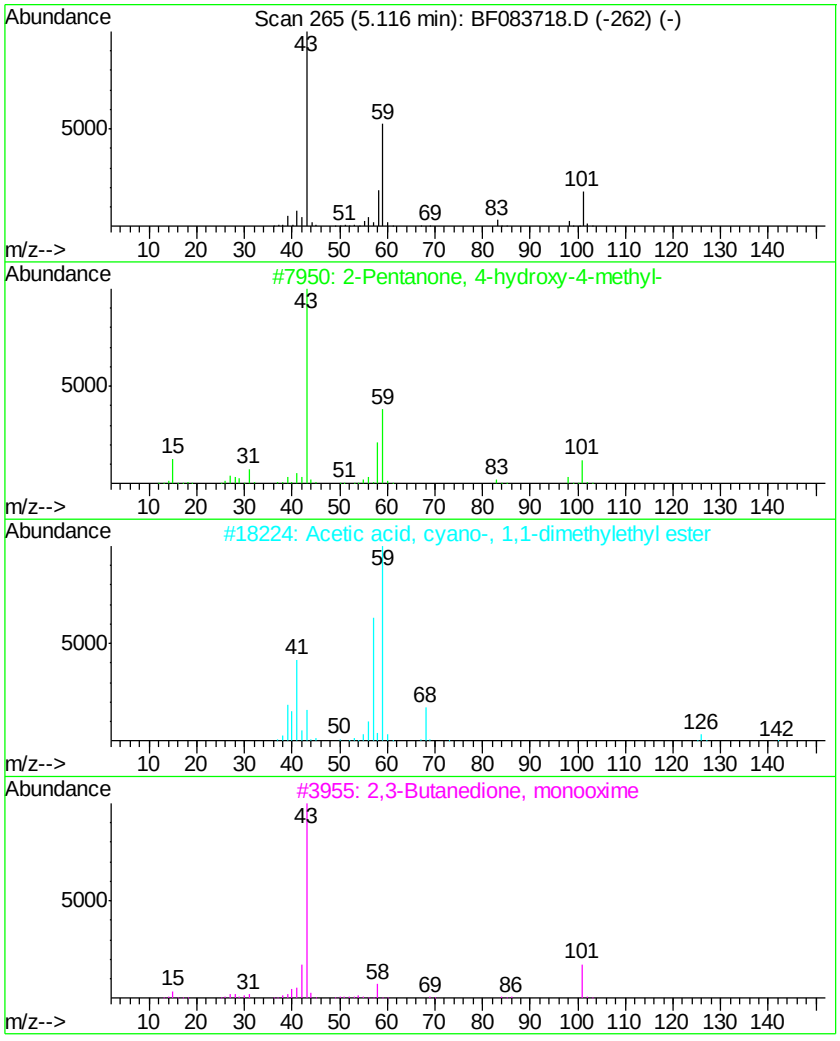
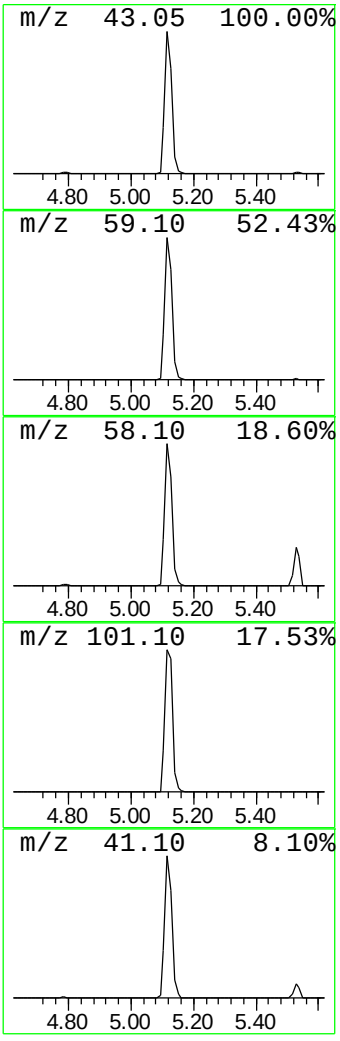
Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.12 | 29.46 ng | 1151210 | 1,4-Dichlorobenzene-d4 | 6.92 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 59 |
| 2 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 23 |
| 3 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 16 |
| 4 | 1-Propen-2-ol, acetate | 100 | C5H8O2 | 000108-22-5 | 10 |
| 5 | Morpholine, 4-methyl- | 101 | C5H11NO | 000109-02-4 | 9 |



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Operator : UM/IZ
Sample : G4739-14
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** K211-15-16

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121115.M
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TIC Integration Parameters: LSCINT.P

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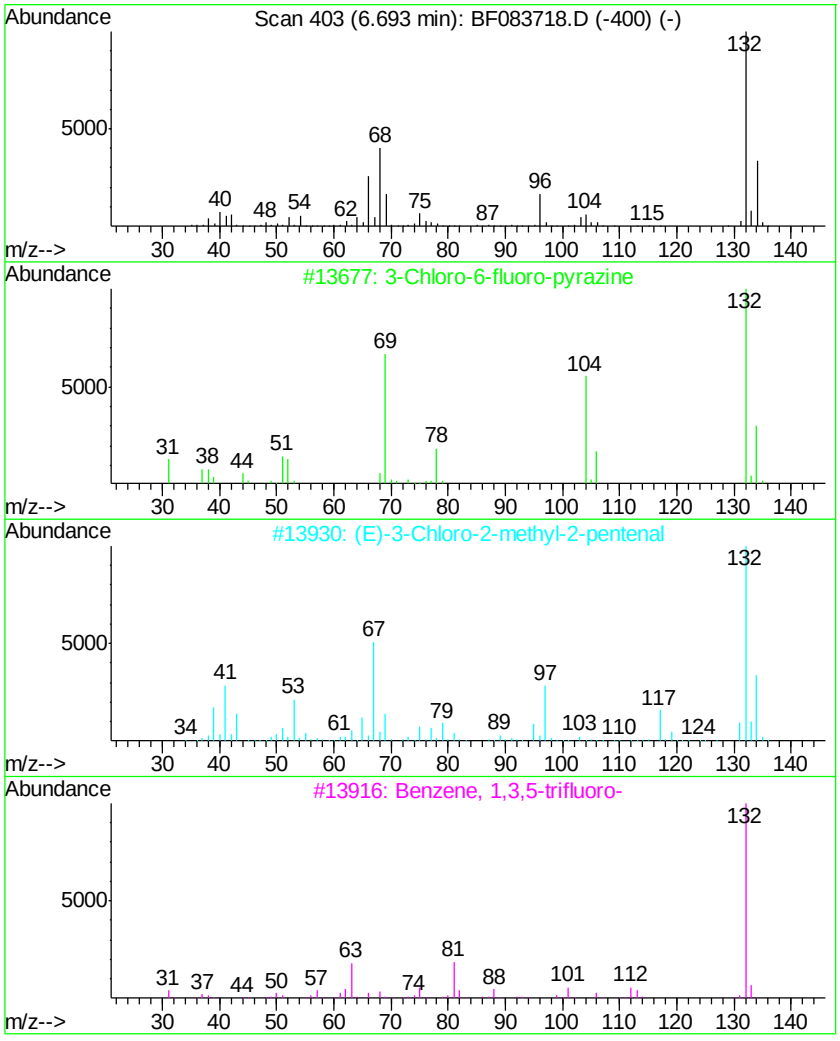
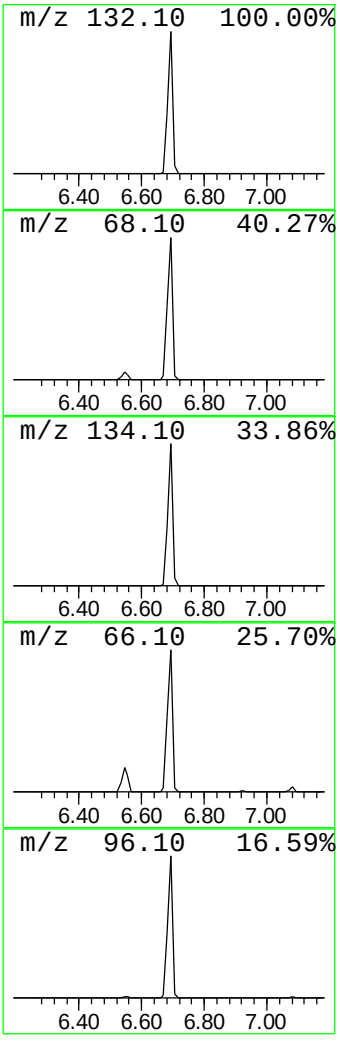
Peak Number 3 unknown6.69 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.69 | 97.68 ng | 3817690 | 1,4-Dichlorobenzene-d4 | 6.92 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 27 |
| 2 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 16 |
| 3 | Benzene, 1,3,5-trifluoro- | 132 | C6H3F3 | 000372-38-3 | 9 |
| 4 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12 | 028749-81-7 | 9 |
| 5 | 1-Methylpyrrolo[1,2-a]pyrazine | 132 | C8H8N2 | 064608-59-9 | 9 |



Tentatively Identified Compound (LSC) summary

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TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Propane, 1,1-dime... | 2.24 | 6.2 | ng | 241463 | 1 | 6.92 | 781669 | 20.0 |
| 2-Pentanone, 4-hy... | 5.12 | 29.5 | ng | 1151210 | 1 | 6.92 | 781669 | 20.0 |
| unknown6.69 | 6.69 | 97.7 | ng | 3817690 | 1 | 6.92 | 781669 | 20.0 |