LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\Data\BF052015\
Data File : BF079387.D
Acq On : 20 May 2015 19:29
Operator : TP/IZ
Sample : G2299-05
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** LS-SB02B(8-8.5)

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-BF043015.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 | 1.233 | 3 | 4 | 7 | rVB | 3626987 | 3848619 | 54.81% | 15.313% |
| 2 | 1.358 | 13 | 15 | 27 | rVB2 | 141170 | 429208 | 6.11% | 1.708% |
| 3 | 1.518 | 27 | 29 | 36 | rVV | 186043 | 302662 | 4.31% | 1.204% |
| 4 | 1.621 | 36 | 38 | 46 | rVV | 424339 | 718727 | 10.24% | 2.860% |
| 5 | 1.736 | 46 | 48 | 85 | rVB | 3599982 | 7021972 | 100.00% | 27.940% |
| 6 | 4.833 | 317 | 319 | 327 | rBV | 256701 | 344422 | 4.90% | 1.370% |
| 7 | 5.370 | 363 | 366 | 369 | rBV | 944652 | 1065522 | 15.17% | 4.240% |
| 8 | 6.662 | 477 | 479 | 482 | rBV | 1203995 | 1109235 | 15.80% | 4.414% |
| 9 | 6.799 | 489 | 491 | 494 | rBV | 1276575 | 1175679 | 16.74% | 4.678% |
| 10 | 7.085 | 514 | 516 | 519 | rBV | 414500 | 410607 | 5.85% | 1.634% |
| 11 | 7.267 | 530 | 532 | 535 | rBV | 728410 | 867157 | 12.35% | 3.450% |
| 12 | 7.782 | 575 | 577 | 580 | rBV | 771793 | 676132 | 9.63% | 2.690% |
| 13 | 8.662 | 652 | 654 | 657 | rVV | 606556 | 554531 | 7.90% | 2.206% |
| 14 | 10.011 | 770 | 772 | 775 | rBV | 1462937 | 1279253 | 18.22% | 5.090% |
| 15 | 10.525 | 815 | 817 | 819 | rBV | 60891 | 80028 | 1.14% | 0.318% |
| 16 | 10.834 | 842 | 844 | 847 | rVB | 668724 | 623731 | 8.88% | 2.482% |
| 17 | 11.817 | 927 | 930 | 932 | rBV2 | 638423 | 860119 | 12.25% | 3.422% |
| 18 | 12.674 | 1002 | 1005 | 1007 | rBV | 612892 | 645129 | 9.19% | 2.567% |
| 19 | 14.537 | 1166 | 1168 | 1174 | rBV | 64713 | 88144 | 1.26% | 0.351% |
| 20 | 14.663 | 1177 | 1179 | 1182 | rBV | 1183680 | 1336447 | 19.03% | 5.318% |
| 21 | 15.851 | 1281 | 1283 | 1288 | rBV | 94068 | 163337 | 2.33% | 0.650% |
| 22 | 15.966 | 1290 | 1293 | 1296 | rVV | 693447 | 756466 | 10.77% | 3.010% |
| 23 | 17.760 | 1447 | 1450 | 1453 | rBV | 631339 | 775232 | 11.04% | 3.085% |

Sum of corrected areas: 25132359

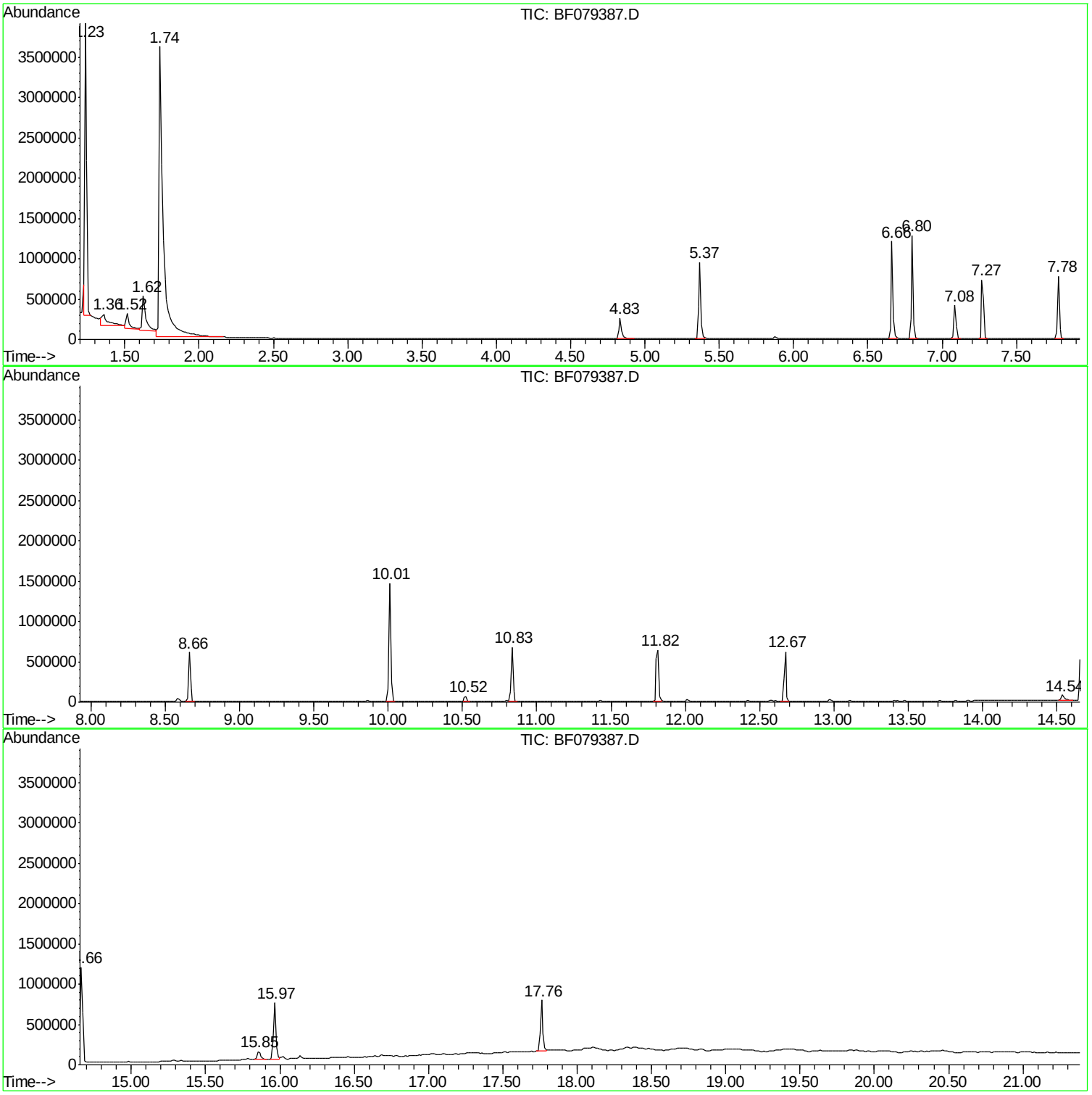
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\Data\BF052015\
Data File : BF079387.D
Acq On : 20 May 2015 19:29
Operator : TP/IZ
Sample : G2299-05
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** LS-SB02B(8-8.5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.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\BF052015\
Data File : BF079387.D
Acq On : 20 May 2015 19:29
Operator : TP/IZ
Sample : G2299-05
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** LS-SB02B(8-8.5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.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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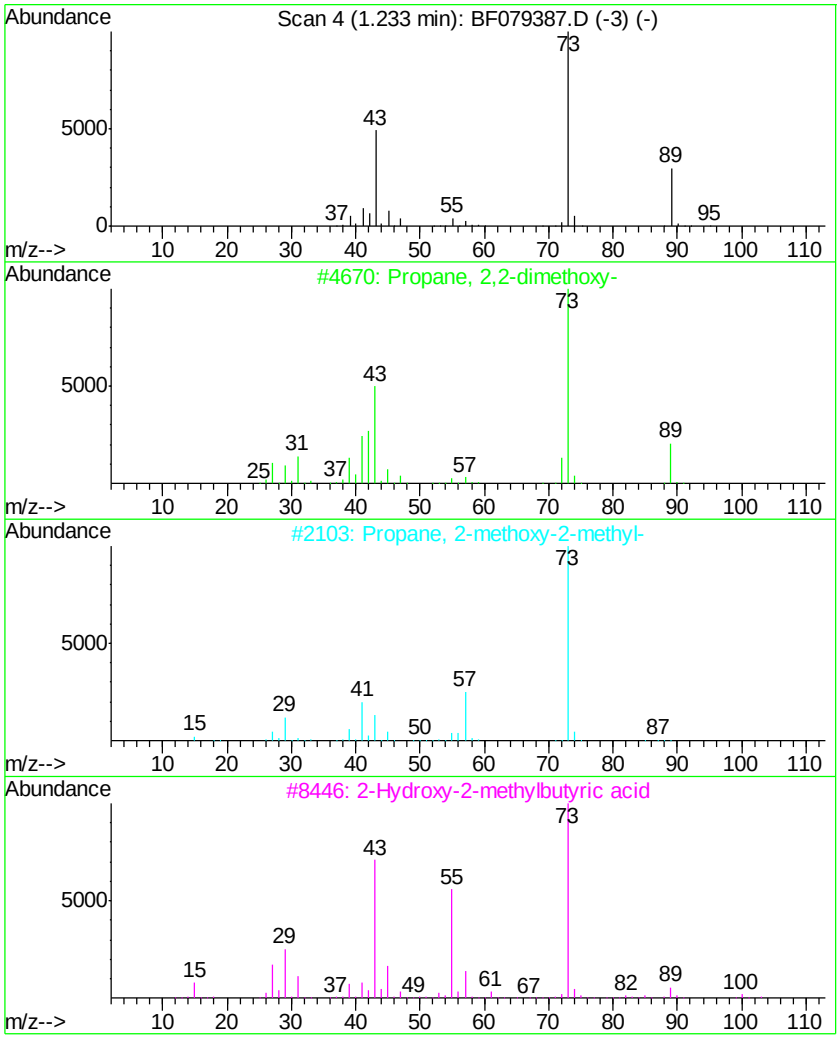
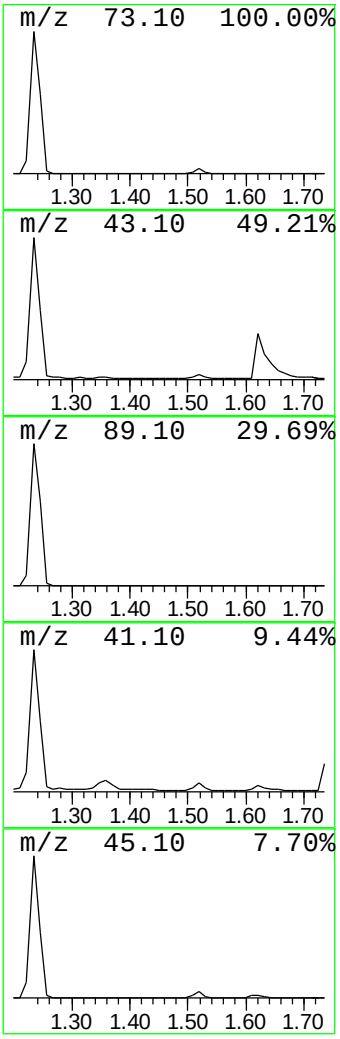
Peak Number 1 unknown1.23 Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.23 | 187.46 ng | 3848620 | 1,4-Dichlorobenzene-d4 | 7.08 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Propane, 2,2-dimethoxy- | 104 | C5H12O2 | 000077-76-9 | 39 |
| 2 | Propane, 2-methoxy-2-methyl- | 88 | C5H12O | 001634-04-4 | 9 |
| 3 | 2-Hydroxy-2-methylbutyric acid | 118 | C5H10O3 | 003739-30-8 | 9 |
| 4 | 1-Hexen-4-ol, 1-chloro-3,5-dimet... | 162 | C8H15ClO | 100244-09-5 | 9 |
| 5 | Methane, isothiocyanato- | 73 | C2H3NS | 000556-61-6 | 7 |



Data Path : Z:\HPCHEM1\BNA F\Data\BF052015\
Data File : BF079387.D
Acq On : 20 May 2015 19:29
Operator : TP/IZ
Sample : G2299-05
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** LS-SB02B(8-8.5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.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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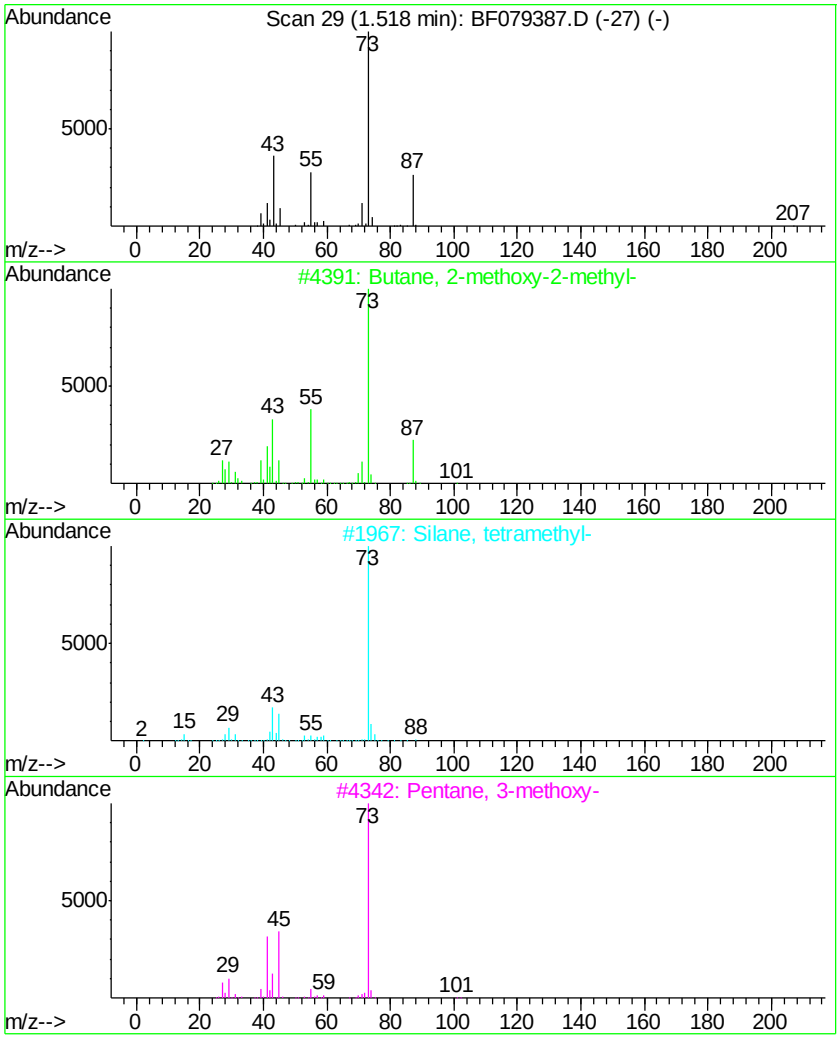
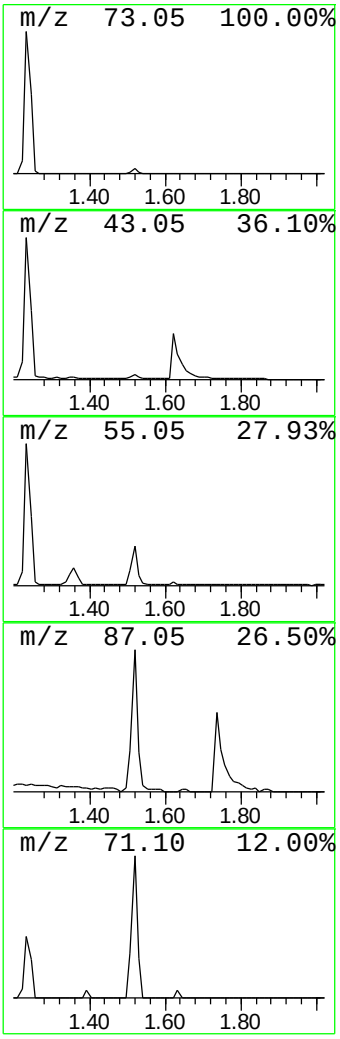
Peak Number 3 Butane, 2-methoxy-2-methyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.52 | 14.74 ng | 302662 | 1,4-Dichlorobenzene-d4 | 7.08 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methoxy-2-methyl- | 102 | C6H14O | 000994-05-8 | 78 |
| 2 | Silane, tetramethyl- | 88 | C4H12Si | 000075-76-3 | 27 |
| 3 | Pentane, 3-methoxy- | 102 | C6H14O | 036839-67-5 | 17 |
| 4 | N-Ethylformamide | 73 | C3H7NO | 000627-45-2 | 9 |
| 5 | Borane, dimethoxy- | 74 | C2H7BO2 | 004542-61-4 | 9 |



Data Path : Z:\HPCHEM1\BNA F\Data\BF052015\
Data File : BF079387.D
Acq On : 20 May 2015 19:29
Operator : TP/IZ
Sample : G2299-05
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** LS-SB02B(8-8.5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.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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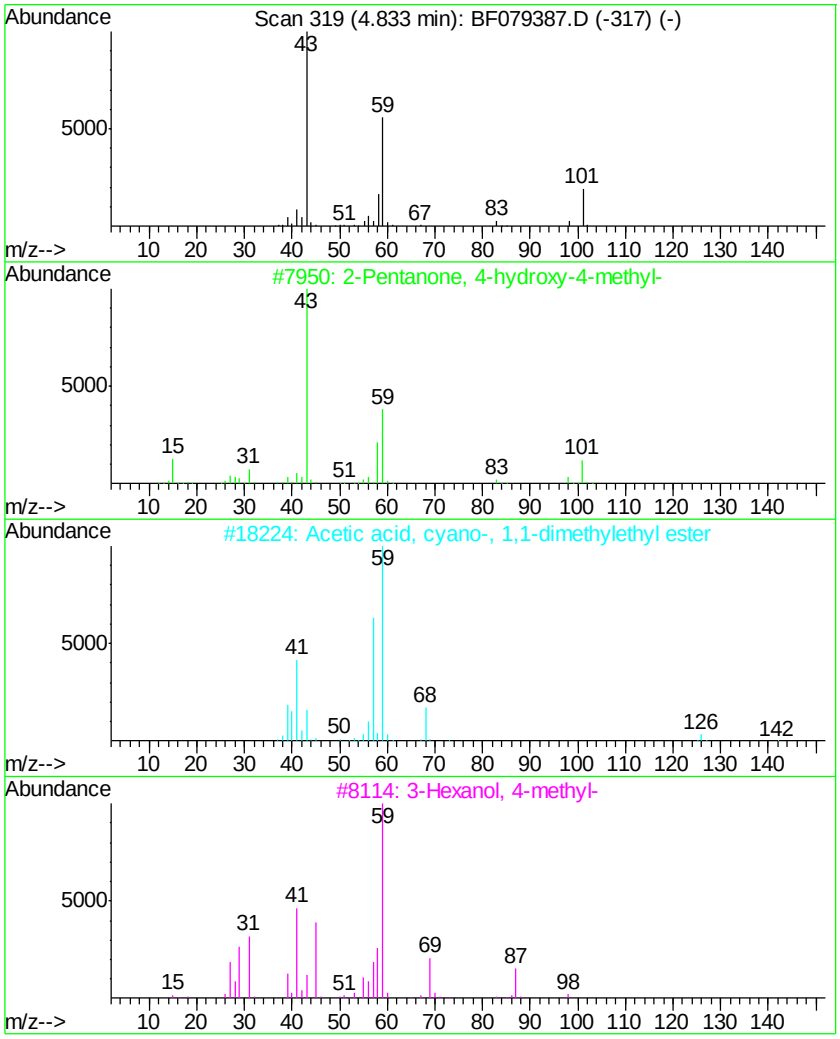
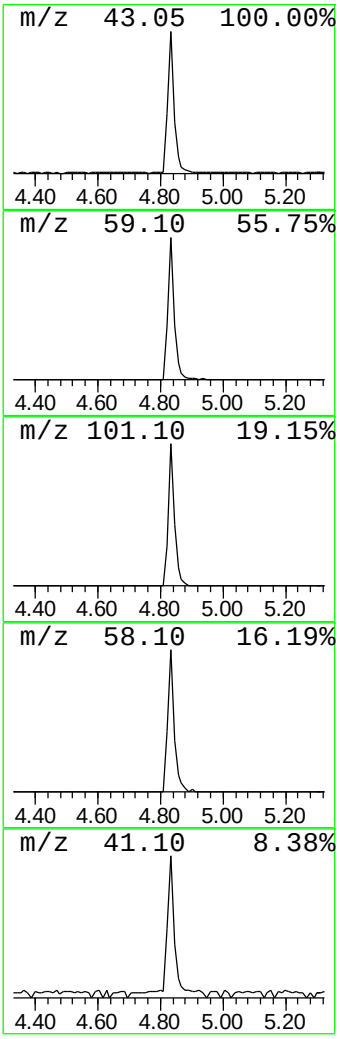
Peak Number 6 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.83 | 16.78 ng | 344422 | 1,4-Dichlorobenzene-d4 | 7.08 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 50 |
| 2 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 23 |
| 3 | 3-Hexanol, 4-methyl- | 116 | C7H16O | 000615-29-2 | 9 |
| 4 | 4-Hydroxy-3-hexanone | 116 | C6H12O2 | 004984-85-4 | 9 |
| 5 | Acetic acid, 1,1-dimethylethyl e... | 116 | C6H12O2 | 000540-88-5 | 9 |



Data Path : Z:\HPCHEM1\BNA F\Data\BF052015\
Data File : BF079387.D
Acq On : 20 May 2015 19:29
Operator : TP/IZ
Sample : G2299-05
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** LS-SB02B(8-8.5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.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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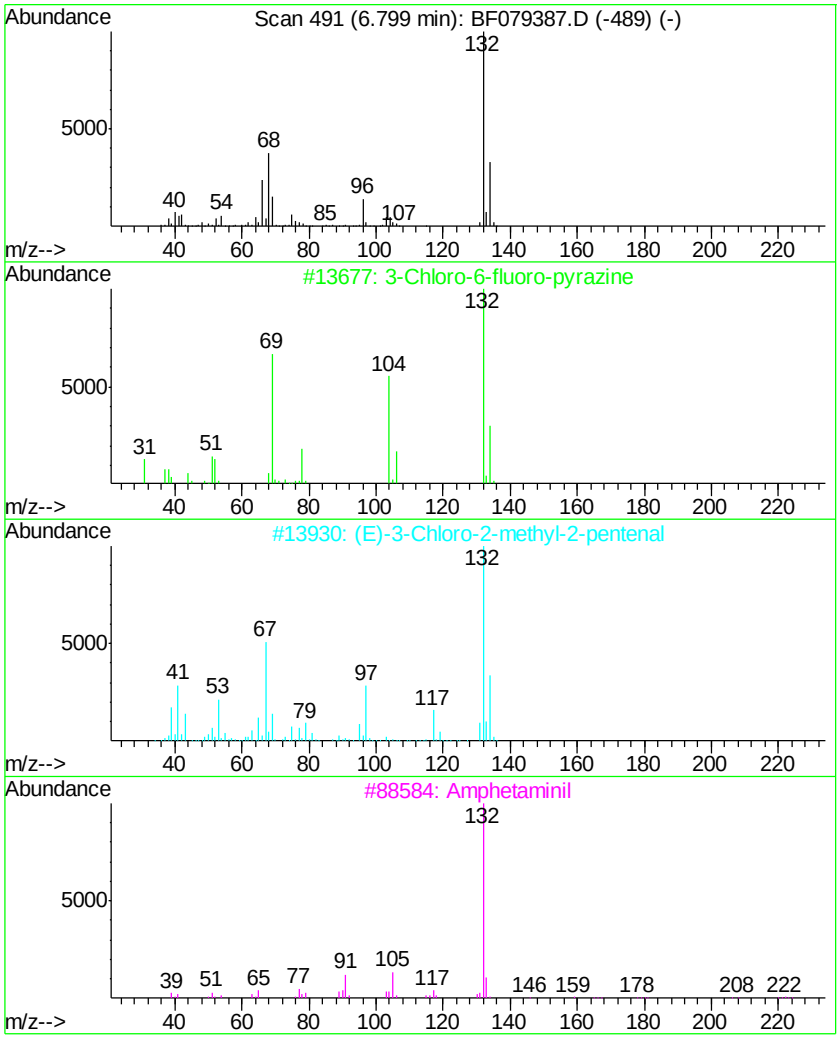
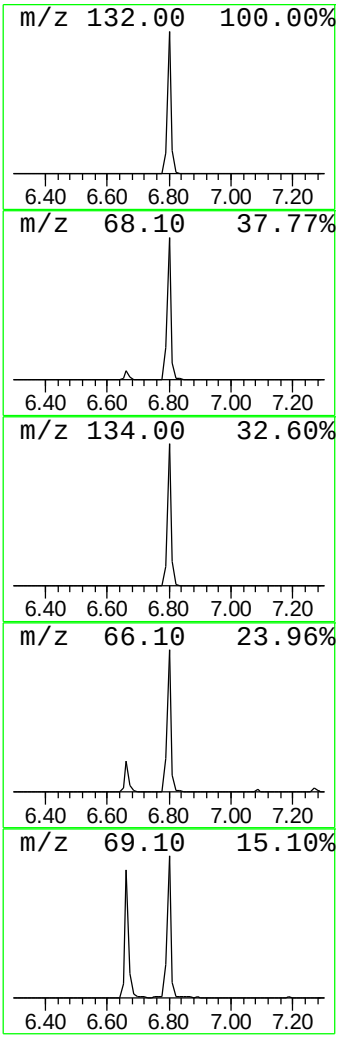
Peak Number 7 unknown6.80 Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.80 | 57.27 ng | 1175680 | 1,4-Dichlorobenzene-d4 | 7.08 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 35 |
| 2 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 25 |
| 3 | Amphetaminil | 250 | C17H18N2 | 017590-01-1 | 12 |
| 4 | 5-Aminoindole | 132 | C8H8N2 | 005192-03-0 | 12 |
| 5 | 1-Methylpyrrolo[1,2-a]pyrazine | 132 | C8H8N2 | 064608-59-9 | 9 |



Data Path : Z:\HPCHEM1\BNA F\Data\BF052015\
Data File : BF079387.D
Acq On : 20 May 2015 19:29
Operator : TP/IZ
Sample : G2299-05
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** LS-SB02B(8-8.5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.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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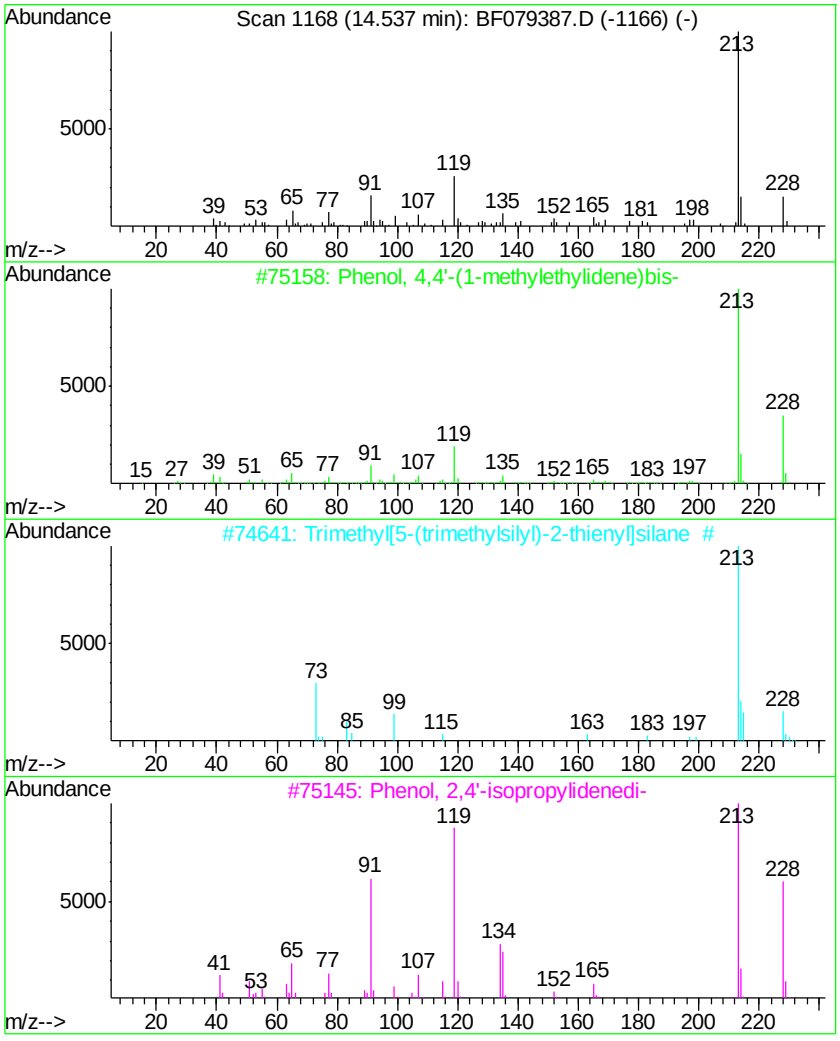
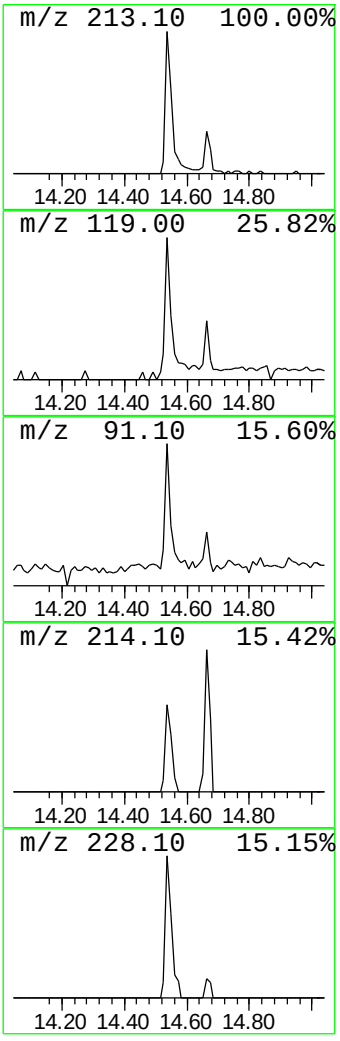
Peak Number 9 Phenol, 4,4'-(1-methylethyl... Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.54 | 2.33 ng | 88144 | Chrysene-d12 | 15.97 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, 4,4'-(1-methylethylidene... | 228 | C15H16O2 | 000080-05-7 | 96 |
| 2 | Trimethyl[5-(trimethylsilyl)-2-t... | 228 | C10H20SSi2 | 017906-71-7 | 52 |
| 3 | Phenol, 2,4'-isopropylidenedi- | 228 | C15H16O2 | 000837-08-1 | 50 |
| 4 | 2H,8H-Benzo[1,2-b:3,4-b']dipyran... | 228 | C14H12O3 | 000523-59-1 | 50 |
| 5 | 2H,8H-Benzo[1,2-b:5,4-b']dipyran... | 228 | C14H12O3 | 000553-19-5 | 50 |



Data Path : Z:\HPCHEM1\BNA F\Data\BF052015\
Data File : BF079387.D
Acq On : 20 May 2015 19:29
Operator : TP/IZ
Sample : G2299-05
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** LS-SB02B(8-8.5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.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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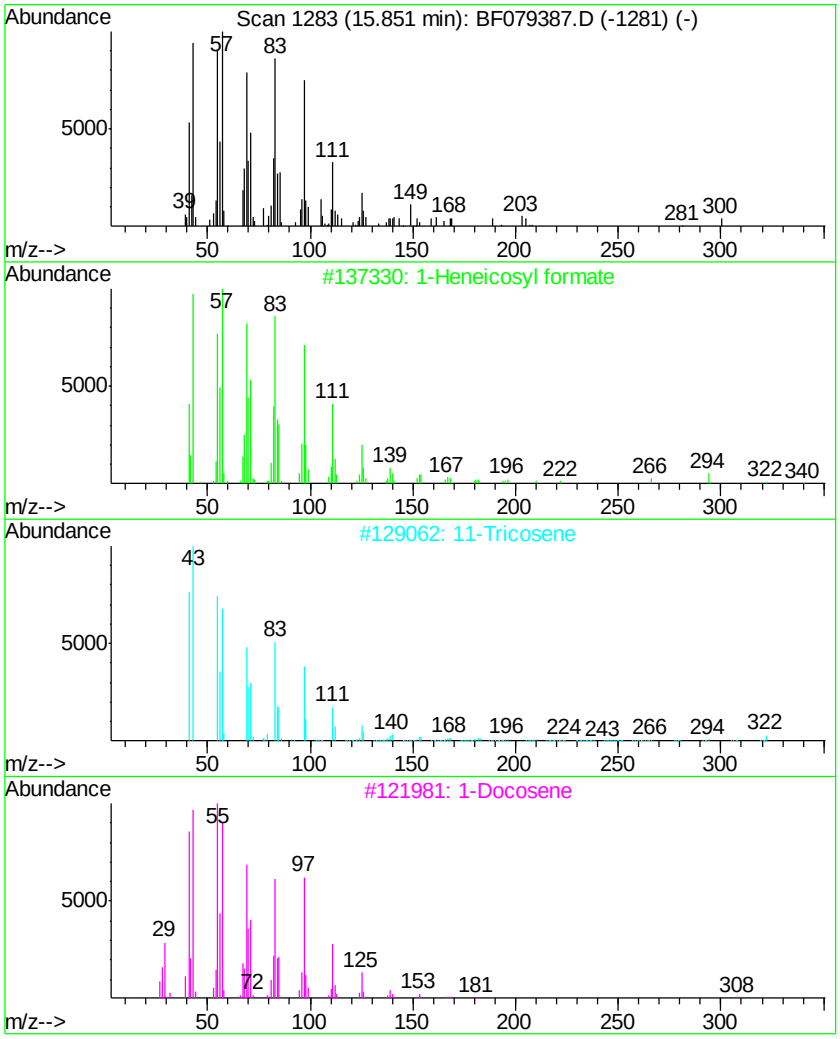
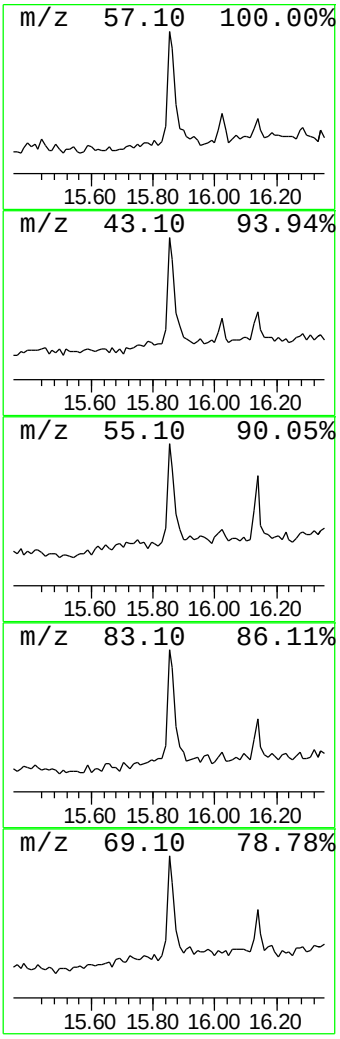
Peak Number 10 1-Heneicosyl formate Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.85 | 4.32 ng | 163337 | Chrysene-d12 | 15.97 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Heneicosyl formate | 340 | C22H44O2 | 077899-03-7 | 87 |
| 2 | 11-Tricosene | 322 | C23H46 | 052078-56-5 | 83 |
| 3 | 1-Docosene | 308 | C22H44 | 001599-67-3 | 76 |
| 4 | 1-Heptadecanol | 256 | C17H36O | 001454-85-9 | 76 |
| 5 | 1-Hexadecanol | 242 | C16H34O | 036653-82-4 | 76 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\Data\BF052015\
Data File : BF079387.D
Acq On : 20 May 2015 19:29
Operator : TP/IZ
Sample : G2299-05
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** LS-SB02B(8-8.5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.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 |
| unknown1.23 | 1.23 | 187.5 | ng | 3848620 | 1 | 7.08 | 410607 | 20.0 |
| Butane, 2-methoxy... | 1.52 | 14.7 | ng | 302662 | 1 | 7.08 | 410607 | 20.0 |
| 2-Pentanone, 4-hy... | 4.83 | 16.8 | ng | 344422 | 1 | 7.08 | 410607 | 20.0 |
| unknown6.80 | 6.80 | 57.3 | ng | 1175680 | 1 | 7.08 | 410607 | 20.0 |
| Phenol, 4,4'-(1-m... | 14.54 | 2.3 | ng | 88144 | 5 | 15.97 | 756466 | 20.0 |
| 1-Heneicosyl formate | 15.85 | 4.3 | ng | 163337 | 5 | 15.97 | 756466 | 20.0 |