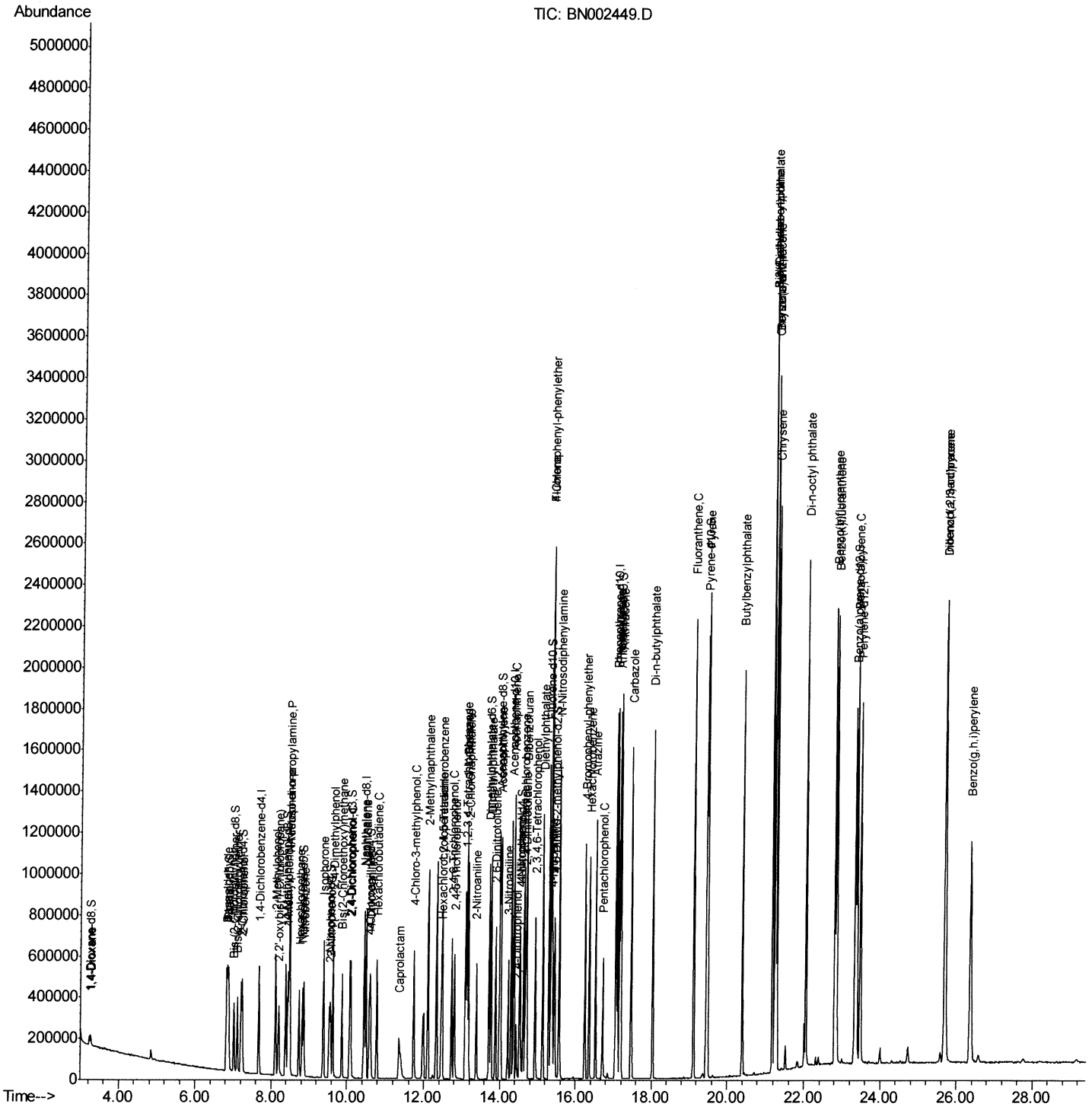
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082218\
Data File : BN002449.D
Acq On : 22 Aug 2018 10:23
Operator : JU/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 23 04:35:38 2018
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\SOM-EPA-BN081318MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Aug 21 04:38:31 2018
Response via : Initial Calibration

**Instrument :**
BNA_N
**LabSampleId :**
SSTD02057

**Manual Integrations APPROVED**
Sohil
8/23/2018 6:35:59 PM



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082218\
Data File : BN002449.D
Acq On : 22 Aug 2018 10:23
Operator : JU/SJ
Sample : SSTDCCC020
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Quant Time: Aug 23 04:32:50 2018
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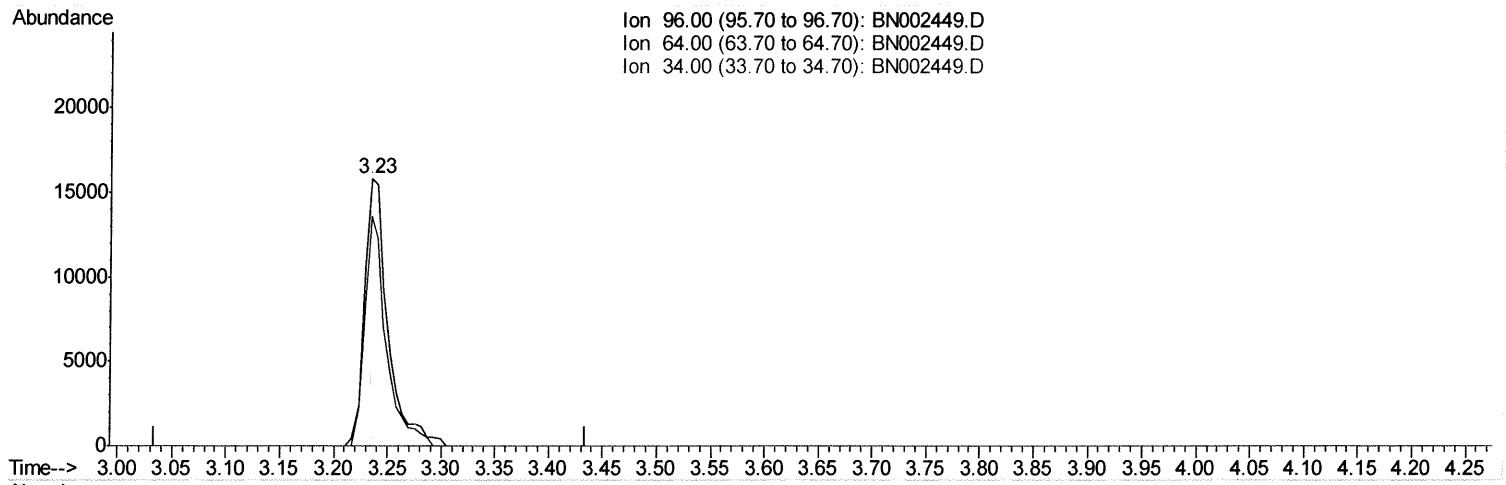
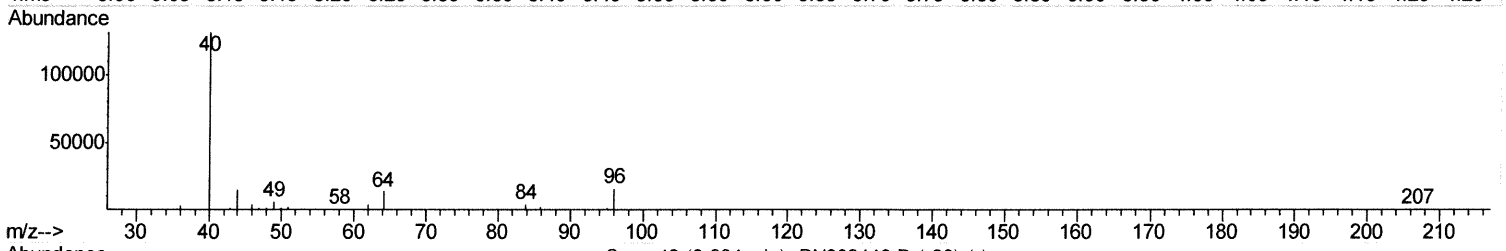
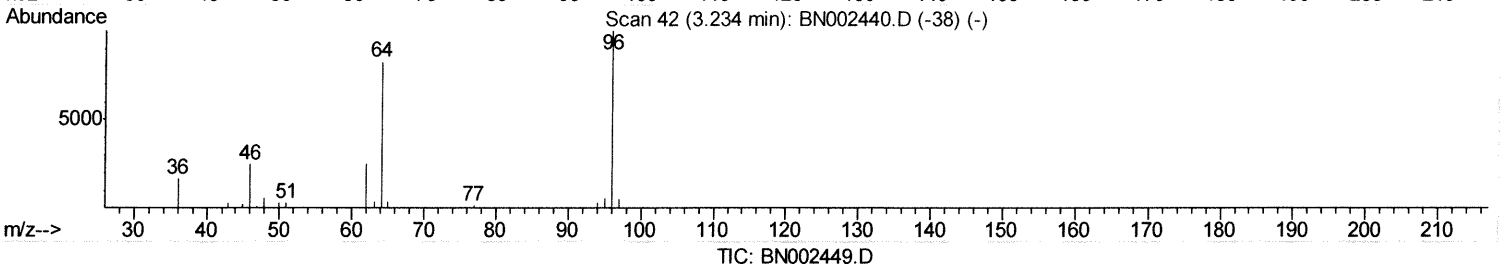
Sohil
8/23/2018 6:35:59 PM




TIC: BN002449.D

(3) 1,4-Dioxane-d8 (S)

3.234min (-0.000) 8.08ng/uL

response 23608

| Ion | Exp% | Act% |
|---|---|---|
| 96.00 | 100 | 100 |
| 64.00 | 67.80 | 82.04# |
| 34.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082218\
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Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

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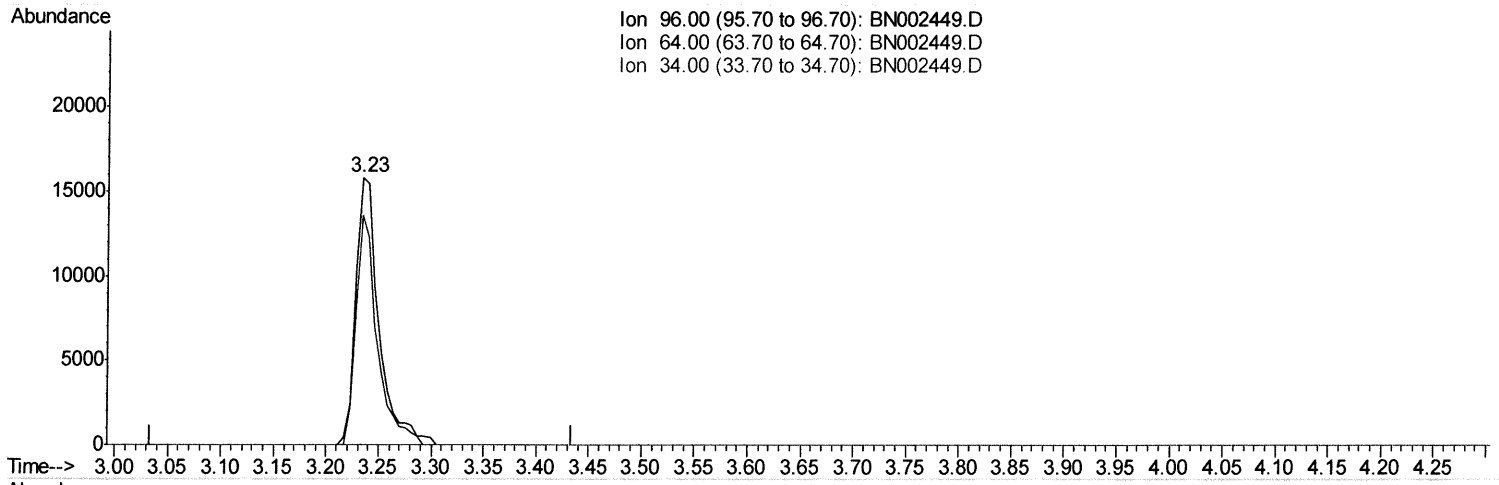
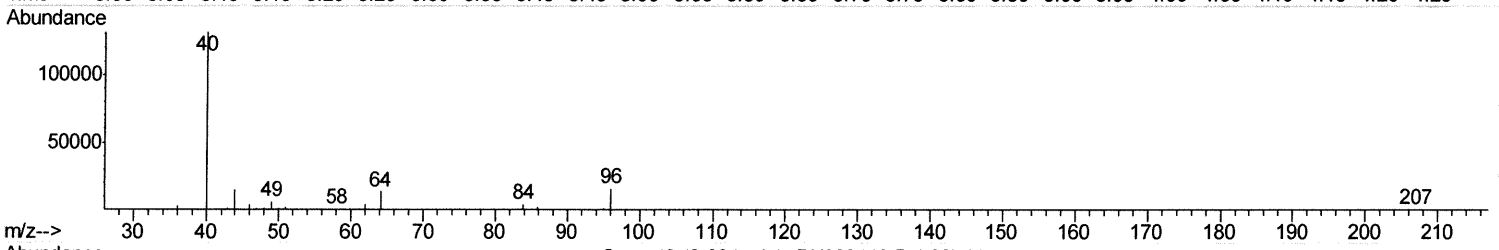
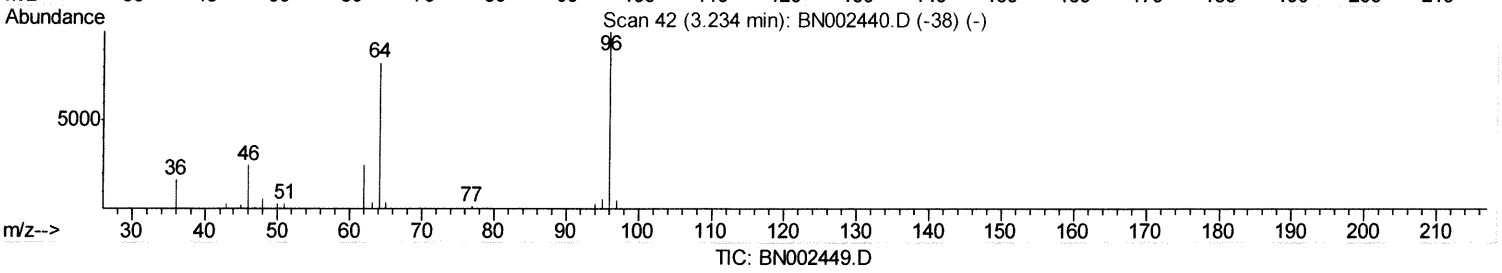
QLast Update : Tue Aug 21 04:38:31 2018
Response via : Initial Calibration

**Instrument :**
BNA_N
**LabSampleId :**
SSTD02057

**Manual Integrations APPROVED**
Sohil
8/23/2018 6:35:59 PM




TIC: BN002449.D

(3) 1,4-Dioxane-d8 (S)

3.234min (-0.000) 8.39ng/uL m SJ 8/24/18

response 24513

| Ion | Exp% | Act% |
|---|---|---|
| 96.00 | 100 | 100 |
| 64.00 | 67.80 | 79.02 |
| 34.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082218\
Data File : BN002449.D
Acq On : 22 Aug 2018 10:23
Operator : JU/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 23 04:32:50 2018
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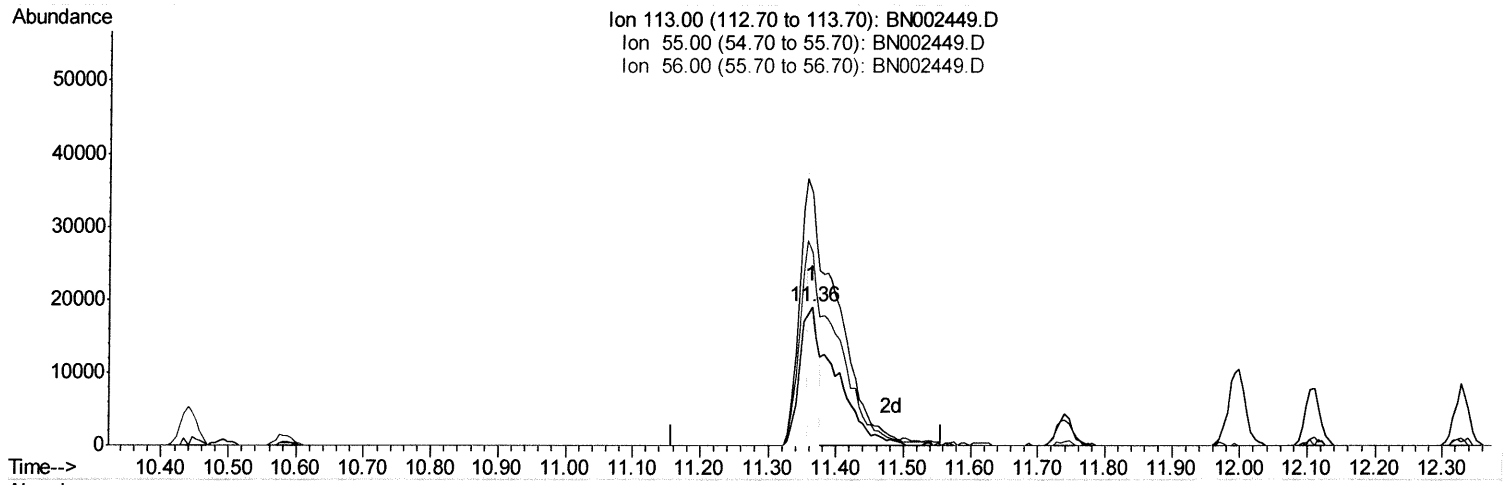
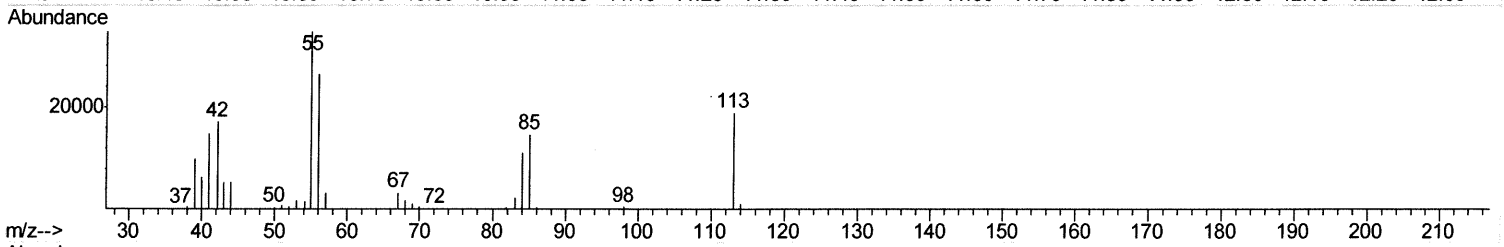
Response via : Initial Calibration

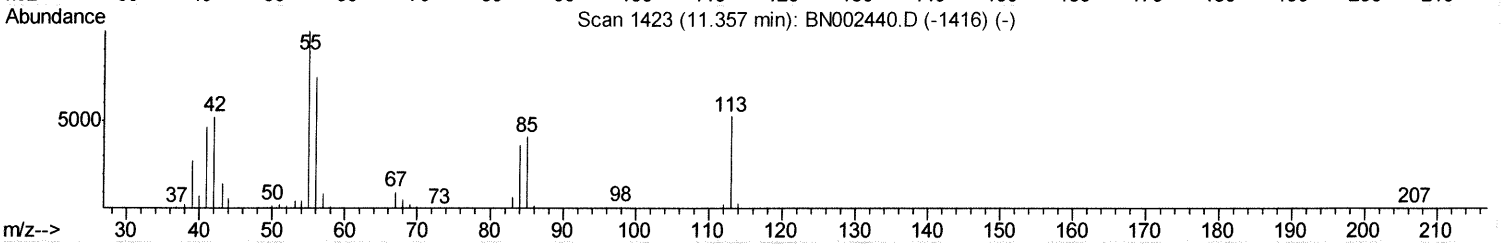
**Instrument :**
BNA_N
**LabSampleId :**
SSTD02057

**Manual Integrations APPROVED**
Sohil
8/23/2018 6:35:59 PM




Scan 1423 (11.357 min): BN002440.D (-1416) (-)




TIC: BN002449.D

(32) Caprolactam

11.363min (+0.006) 9.79ng/ul

response 35618

| Ion | Exp% | Act% |
|---|---|---|
| 113.00 | 100 | 100 |
| 55.00 | 127.40 | 182.34# |
| 56.00 | 101.50 | 139.46# |
| 0.00 | 0.00 | 0.00 |

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082218\
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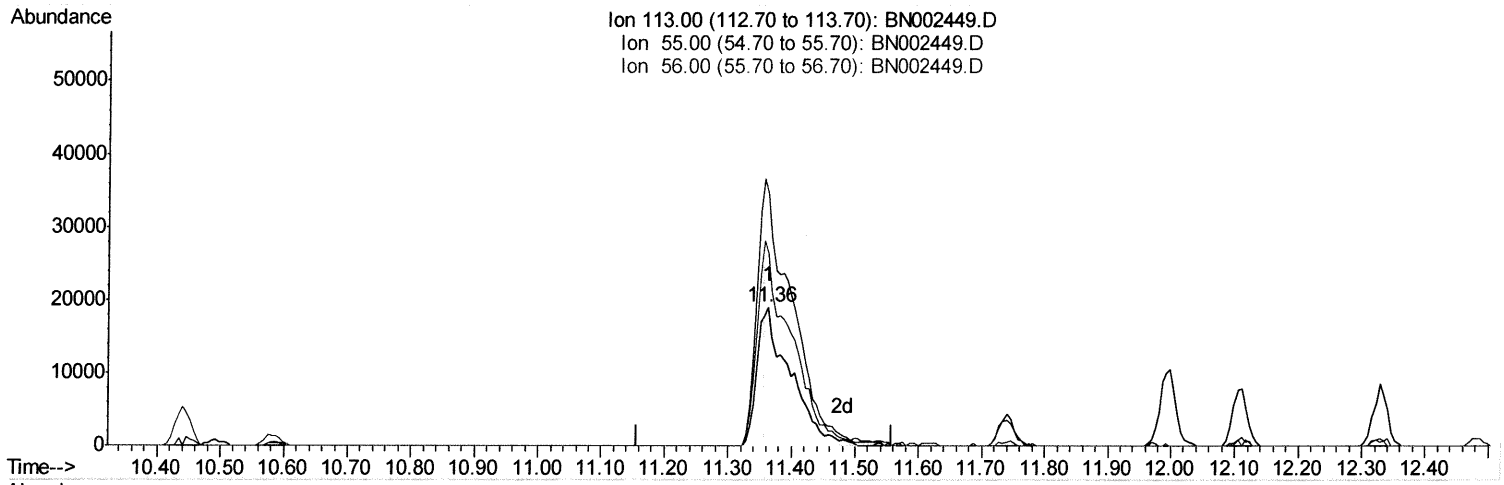
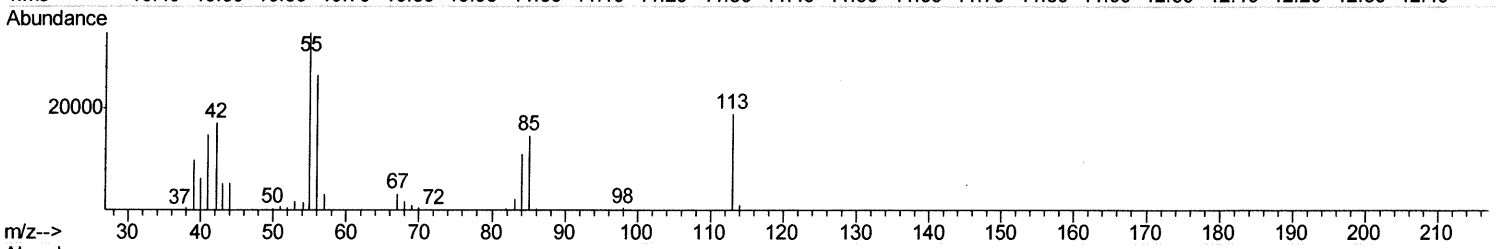
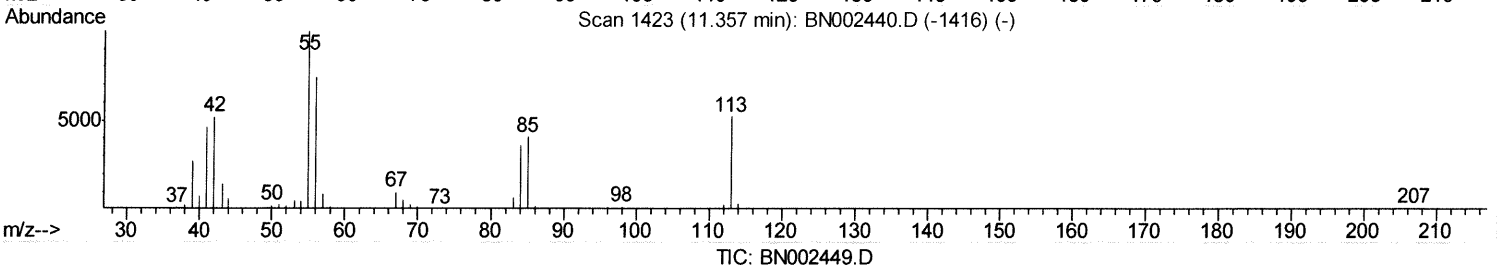
**Instrument :**
BNA_N
**LabSampleId :**
SSTD02057

**Manual Integrations APPROVED**
Sohil
8/23/2018 6:35:59 PM




(32) Caprolactam

11.363min (+0.006) 19.14ng/ul m SJ 8/24/18

response 69673

| Ion | Exp% | Act% |
|---|---|---|
| 113.00 | 100 | 100 |
| 55.00 | 127.40 | 182.34# |
| 56.00 | 101.50 | 139.46# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (QT Reviewed)

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Response via : Initial Calibration

**Instrument :** BNA_N
**LabSampleId :** SSTD02057

**Manual Integrations APPROVED**
Sohil
8/23/2018 6:35:59 PM

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 7.67 | 152 | 137979 | 20.00 | ng/ul | 0.00 |
| 18) Naphthalene-d8 | 10.44 | 136 | 650515 | 20.00 | ng/ul | 0.00 |
| 35) Acenaphthene-d10 | 14.30 | 164 | 403392 | 20.00 | ng/ul | 0.00 |
| 61) Phenanthrene-d10 | 17.05 | 188 | 979886 | 20.00 | ng/ul | 0.00 |
| 77) Chrysene-d12 | 21.25 | 240 | 1151281 | 20.00 | ng/ul | 0.00 |
| 85) Perylene-d12 | 23.47 | 264 | 1223640 | 20.00 | ng/ul | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 3) 1,4-Dioxane-d8 | 3.23 | 96 | 24513m | 8.39 | ng/uL | 0.00 |
| 5) Phenol-d5 | 6.85 | 99 | 243354 | 19.24 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d | 7.01 | 67 | 159481 | 20.07 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4 | 7.21 | 132 | 188724 | 19.58 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8 | 8.38 | 113 | 191415 | 18.92 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5 | 8.82 | 128 | 99646 | 19.24 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4 | 9.53 | 143 | 100354 | 18.43 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3 | 10.07 | 165 | 194628 | 19.45 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4 | 10.58 | 131 | 217494 | 20.11 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6 | 13.72 | 166 | 652738 | 19.52 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8 | 13.99 | 160 | 828343 | 20.19 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4 | 14.52 | 143 | 112130 | 17.74 | ng/ul | 0.00 |
| 57) Fluorene-d10 | 15.30 | 176 | 575121 | 19.84 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.43 | 200 | 108147 | 17.33 | ng/ul | 0.00 |
| 70) Anthracene-d10 | 17.15 | 188 | 928856 | 19.84 | ng/ul | 0.00 |
| 78) Pyrene-d10 | 19.45 | 212 | 1054546 | 19.14 | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12 | 23.33 | 264 | 1243427 | 19.43 | ng/ul | 0.00 |
| **Target Compounds** | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.27 | 88 | 26000 | 8.314 | ng/uL | 94 |
| 4) Benzaldehyde | 6.82 | 77 | 175136 | 20.149 | ng/ul | 93 |
| 6) Phenol | 6.88 | 94 | 250642 | 19.453 | ng/ul# | 91 |
| 8) Bis(2-Chloroethyl)ether | 7.10 | 93 | 193874 | 19.794 | ng/ul# | 83 |
| 10) 2-Chlorophenol | 7.24 | 128 | 189444 | 19.526 | ng/ul# | 85 |
| 11) 2-Methylphenol | 8.11 | 108 | 185652 | 19.093 | ng/ul | 99 |
| 12) 2,2'-oxybis(1-Chloropropan | 8.20 | 45 | 338040 | 20.839 | ng/ul# | 85 |
| 14) Acetophenone | 8.49 | 105 | 328130 | 20.293 | ng/ul# | 90 |
| 15) N-Nitroso-di-n-propylamine | 8.47 | 70 | 168031 | 19.694 | ng/ul# | 81 |
| 16) 4-Methylphenol | 8.44 | 108 | 203365 | 19.224 | ng/ul | 99 |
| 17) Hexachloroethane | 8.73 | 117 | 80974 | 19.925 | ng/ul | 93 |
| 20) Nitrobenzene | 8.86 | 77 | 251772 | 20.317 | ng/ul | 93 |
| 21) Isophorone | 9.38 | 82 | 472717 | 19.789 | ng/ul | 97 |
| 23) 2-Nitrophenol | 9.57 | 139 | 108556 | 18.967 | ng/ul# | 88 |
| 24) 2,4-Dimethylphenol | 9.63 | 107 | 235582 | 20.072 | ng/ul | 95 |
| 25) Bis(2-Chloroethoxy)methane | 9.86 | 93 | 275952 | 19.607 | ng/ul | 99 |
| 27) 2,4-Dichlorophenol | 10.10 | 162 | 190754 | 19.688 | ng/ul | 98 |
| 28) Naphthalene | 10.49 | 128 | 660326 | 19.729 | ng/ul | 99 |
| 30) 4-Chloroaniline | 10.60 | 127 | 218844 | 20.013 | ng/ul | 100 |
| 31) Hexachlorobutadiene | 10.77 | 225 | 120200 | 19.708 | ng/ul | 98 |
| 32) Caprolactam | 11.36 | 113 | 69673m | 19.142 | ng/ul | |
| 33) 4-Chloro-3-methylphenol | 11.74 | 107 | 218383 | 19.588 | ng/ul | 99 |
| 34) 2-Methylnaphthalene | 12.11 | 142 | 489427 | 19.813 | ng/ul | 98 |

SJ 8/24/18

SJ 8/24/18

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Operator : JU/SJ
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Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 23 04:35:38 2018
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Quant Title : SVOA CALIBRATION
QLast Update : Tue Aug 21 04:38:31 2018
Response via : Initial Calibration

**Instrument :** BNA_N
**LabSampleId :** SSTD02057

**Manual Integrations APPROVED**
Sohil
8/23/2018 6:35:59 PM

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.48 | 216 | 237780 | 19.460 | ng/ul | 97 |
| 37) Hexachlorocyclopentadiene | 12.46 | 237 | 124823 | 16.817 | ng/ul | 96 |
| 38) 2,4,6-Trichlorophenol | 12.73 | 196 | 150729 | 19.158 | ng/ul | 99 |
| 39) 2,4,5-Trichlorophenol | 12.80 | 196 | 162132 | 19.258 | ng/ul | 96 |
| 40) 1,1'-Biphenyl | 13.13 | 154 | 635455 | 19.678 | ng/ul | 99 |
| 41) 2-Chloronaphthalene | 13.17 | 162 | 493646 | 19.610 | ng/ul | 98 |
| 42) 2-Nitroaniline | 13.38 | 65 | 160644 | 20.037 | ng/ul# | 76 |
| 44) Dimethylphthalate | 13.76 | 163 | 648996 | 19.788 | ng/ul | 99 |
| 45) 2,6-Dinitrotoluene | 13.89 | 165 | 131240 | 19.806 | ng/ul | 91 |
| 47) Acenaphthylene | 14.02 | 152 | 778226 | 19.925 | ng/ul | 100 |
| 48) 3-Nitroaniline | 14.22 | 138 | 122448 | 19.422 | ng/ul | 89 |
| 49) Acenaphthene | 14.37 | 153 | 550056 | 19.965 | ng/ul | 98 |
| 50) 2,4-Dinitrophenol | 14.43 | 184 | 55782 | 14.071 | ng/ul# | 1 |
| 52) 4-Nitrophenol | 14.53 | 109 | 92104 | 19.224 | ng/ul# | 86 |
| 53) Dibenzofuran | 14.70 | 168 | 770773 | 19.830 | ng/ul | 99 |
| 54) 2,4-Dinitrotoluene | 14.68 | 165 | 206761 | 20.696 | ng/ul# | 80 |
| 55) 2,3,4,6-Tetrachlorophenol | 14.93 | 232 | 145762 | 19.829 | ng/ul | 96 |
| 56) Diethylphthalate | 15.13 | 149 | 671703 | 20.074 | ng/ul | 99 |
| 58) Fluorene | 15.36 | 166 | 644710 | 20.274 | ng/ul | 100 |
| 59) 4-Chlorophenyl-phenylether | 15.35 | 204 | 315168 | 20.080 | ng/ul | 97 |
| 60) 4-Nitroaniline | 15.38 | 138 | 161311 | 19.798 | ng/ul | 96 |
| 63) 4,6-Dinitro-2-methylphenol | 15.45 | 198 | 112204 | 17.434 | ng/ul# | 95 |
| 64) N-Nitrosodiphenylamine | 15.57 | 169 | 553276 | 19.323 | ng/ul | 100 |
| 65) 4-Bromophenyl-phenylether | 16.25 | 248 | 190577 | 19.064 | ng/ul | 95 |
| 66) Hexachlorobenzene | 16.36 | 284 | 218392 | 19.576 | ng/ul | 95 |
| 67) Atrazine | 16.52 | 200 | 201693 | 19.267 | ng/ul | 98 |
| 68) Pentachlorophenol | 16.71 | 266 | 106496 | 17.053 | ng/ul | 99 |
| 69) Phenanthrene | 17.09 | 178 | 1064013 | 19.697 | ng/ul | 98 |
| 71) Anthracene | 17.19 | 178 | 1094798 | 19.983 | ng/ul | 99 |
| 72) 1,2,3,4-Tetrachlorobenzene | 13.09 | 216 | 262843 | 19.183 | ng/uL | 99 |
| 73) Pentachlorobenzene | 14.63 | 250 | 246448 | 18.871 | ng/uL | 98 |
| 74) Carbazole | 17.46 | 167 | 977536 | 20.120 | ng/ul | 99 |
| 75) Di-n-butylphthalate | 18.03 | 149 | 1165362 | 19.730 | ng/ul | 100 |
| 76) Fluoranthene | 19.12 | 202 | 1279650 | 20.814 | ng/ul | 100 |
| 79) Pyrene | 19.48 | 202 | 1339282 | 19.293 | ng/ul | 100 |
| 80) Butylbenzylphthalate | 20.39 | 149 | 535506 | 18.206 | ng/ul | 97 |
| 81) 3,3'-Dichlorobenzidine | 21.17 | 252 | 387297 | 16.881 | ng/ul | 98 |
| 82) Benzo(a)anthracene | 21.24 | 228 | 1397629 | 19.816 | ng/ul | 98 |
| 83) Bis(2-ethylhexyl)phthalate | 21.17 | 149 | 837209 | 18.976 | ng/ul | 99 |
| 84) Chrysene | 21.29 | 228 | 1320132 | 19.776 | ng/ul | 99 |
| 86) Di-n-octyl phthalate | 22.05 | 149 | 1446652 | 18.603 | ng/ul# | 91 |
| 87) Benzo(b)fluoranthene | 22.81 | 252 | 1468631 | 20.023 | ng/ul | 100 |
| 88) Benzo(k)fluoranthene | 22.85 | 252 | 1347543 | 19.501 | ng/ul | 98 |
| 90) Benzo(a)pyrene | 23.38 | 252 | 1388592 | 19.874 | ng/ul | 99 |
| 91) Indeno(1,2,3-cd)pyrene | 25.69 | 276 | 1560922 | 18.779 | ng/ul | 98 |
| 92) Dibenzo(a,h)anthracene | 25.70 | 278 | 1290995 | 18.578 | ng/ul | 99 |
| 93) Benzo(g,h,i)perylene | 26.37 | 276 | 1257020 | 18.124 | ng/ul | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed