



Calibration Laboratory Cert: 5518.01

ISO/IEC 17025:2017 and ANSI/NCSL Z540.1-1994  
**Accredited Calibration Certificate**

Customer Address: Rental

Order / RMA:

Certificate: A24090501DR

Product: RF Immunity System

Manufacturer: The EMC Shop

Model: NSG 4070-75

Serial: 26996

Notes:

Date of Report: 9/6/2024

Date of Calibration: 9/5/2024

Next Calibration:

*The next calibration date is defined by the equipment user/owner.*

The results of the tests performed are held on file at The EMC Shop. The calibration was carried out in accordance with the general requirements of ISO/IEC 17025-2017 and ANSI Z-540-1 at the address shown above, using laboratory standards which are traceable to the SI International System of Quantities through the National Institute of Standards and Technology (NIST), and or other Accredited bodies except where none exist. Tests are carried out in environmental conditions controlled to the extent appropriate to the instrument's specification. This certificate shall not be reproduced except in full without the written approval of the laboratory. The uncertainty results meet the requirements of the ISO/IEC 17025-2017 standard and ILAC Doc.P14. Calibrations will be completed with the understanding that our Laboratories' estimate of uncertainty for the measurement is not included and not considered in the Pass/Fail/Tolerance decision. Results are accredited values unless annotated with an asterisk \*. The Results presented below are only applicable to the Model/Serial number shown.

Ambient Conditions of Laboratory

Temperature (°C): 22

Relative Humidity (%): 38

Technician:

Dan Raines

Technician Signature: \_\_\_\_\_



| Calibration Equipment |                   |                |                        |           |
|-----------------------|-------------------|----------------|------------------------|-----------|
| Model                 | Description       | Serial Number  | Certificate            | Due Date  |
| ZNB 8                 | Network Analyzer  | 103153         | 5000-309120570         | 7/3/2025  |
| ZV-Z21                | Cal Kit           | 100800         | 584251 D-K-15195-01-00 | 7/26/2025 |
| E9304A                | Power Sensor      | MY62480010     | WO-00569563            | 9/5/2025  |
| E4419B                | Power Meter       | GB40202731     | 1-17660891762-1        | 5/24/2025 |
| ECO-2G                | Oscilloscope      | SDS62DDQ6R0169 | 551220085524529        | 12/8/2024 |
| N9010A                | Spectrum Analyzer | MY54510521     | 1-14095158622-1        | 3/1/2025  |

Calibration method used: IEC 61000-4-6

VSWR measurements made are not accredited

|                     |              |
|---------------------|--------------|
| Condition as found: | IN tolerance |
| Condition as left:  | IN tolerance |

| Measuring Uncertainties        |               |
|--------------------------------|---------------|
| Insertion Loss                 | $\pm 0.2$ dB  |
| RF Power Level                 | $\pm 0.3$ dB  |
| Power Amplifier Gain Linearity | $\pm 0.44$ dB |

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k such that the coverage probability corresponds to approximately 95%


**RF Out Main Generator Linearity - tested at 100 MHz**

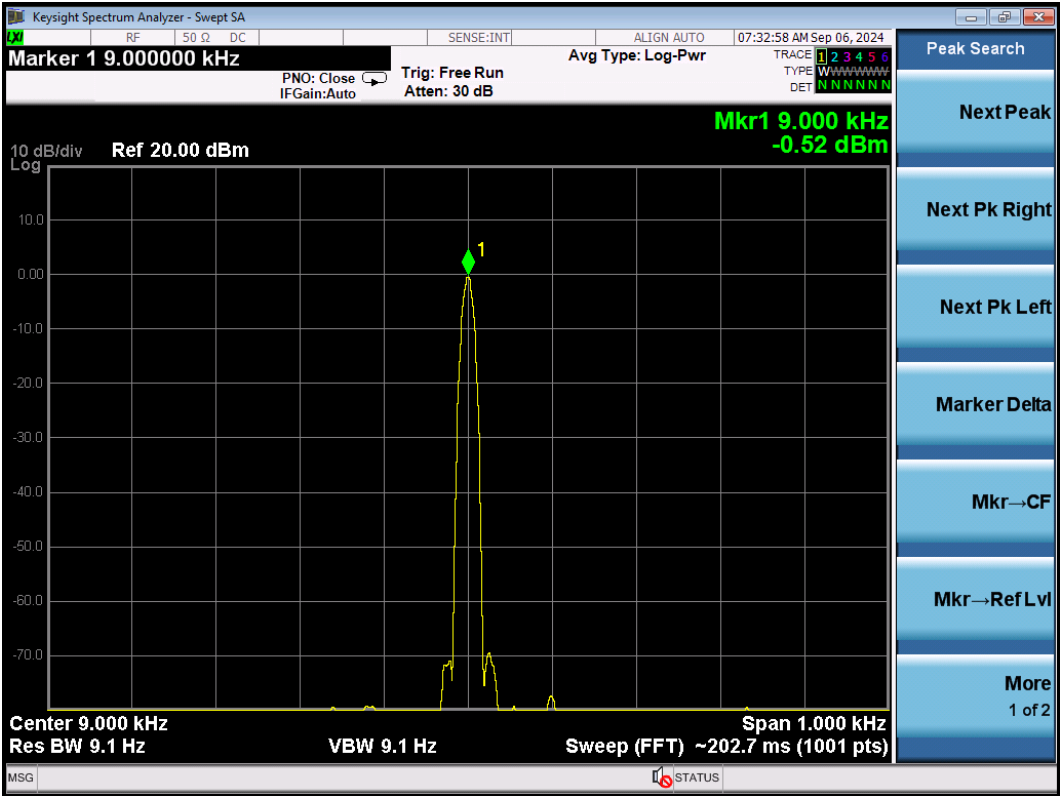
| Nominal (dBm) | Actual (dBm) | Difference (dBm) |
|---------------|--------------|------------------|
| -40.00        | -40.41       | -0.41            |
| -35.00        | -35.35       | -0.35            |
| -30.00        | -30.31       | -0.31            |
| -25.00        | -25.30       | -0.30            |
| -20.00        | -20.29       | -0.29            |
| -15.00        | -15.16       | -0.16            |
| -10.00        | -10.13       | -0.13            |
| -5.00         | -5.01        | -0.01            |
| 0.00          | 0.01         | 0.01             |
| 5.00          | 5.03         | 0.03             |
| 10.00         | 10.03        | 0.03             |

**RF Out Main Generator Flatness - tested at -10 dBm**

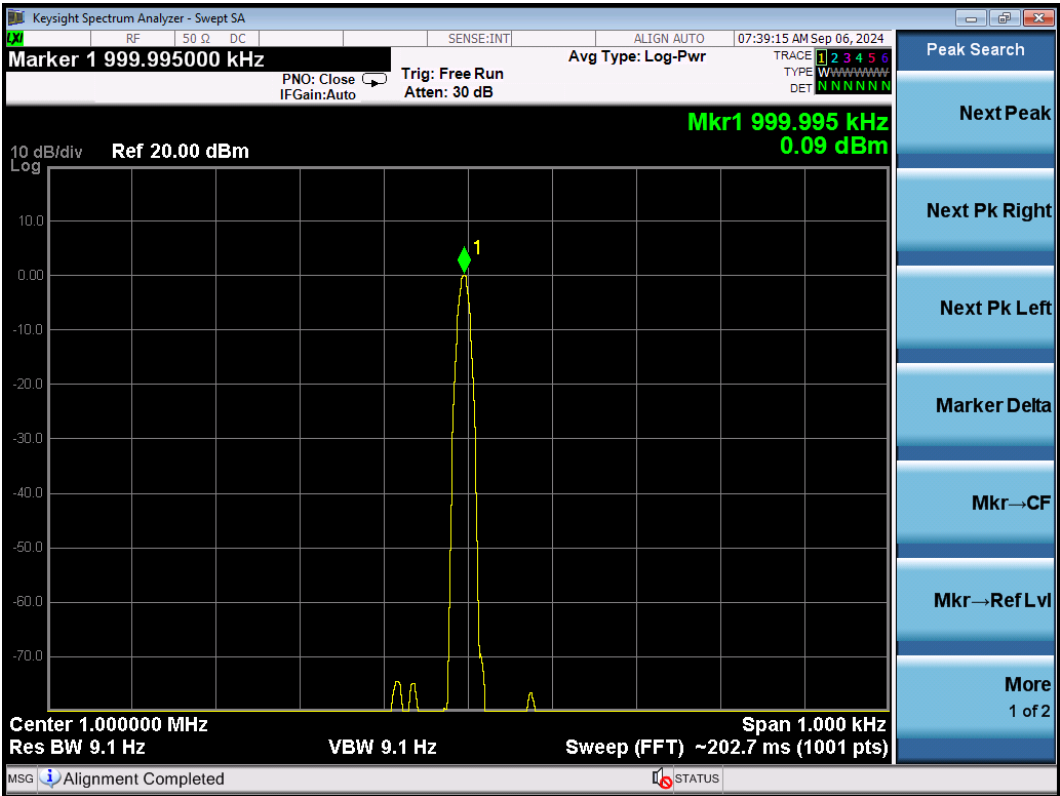
| Frequency (MHz) | Actual (dBm) | Difference (dBm) |
|-----------------|--------------|------------------|
| 0.009           | -10.58       | -0.58            |
| 0.03            | -10.02       | -0.02            |
| 0.06            | -10.02       | -0.02            |
| 0.10            | -10.02       | -0.02            |
| 0.30            | -9.98        | 0.02             |
| 0.60            | -9.98        | 0.02             |
| 1.00            | -9.94        | 0.06             |
| 3.00            | -10.03       | -0.03            |
| 6.00            | -10.04       | -0.04            |
| 10.00           | -10.02       | -0.02            |
| 30.00           | -10.09       | -0.09            |
| 60.00           | -10.11       | -0.11            |
| 100.00          | -10.13       | -0.13            |
| 300.00          | -10.27       | -0.27            |
| 600.00          | -10.15       | -0.15            |
| 1000.00         | -9.73        | 0.27             |



Signal Generator 0dBm out at 9kHz

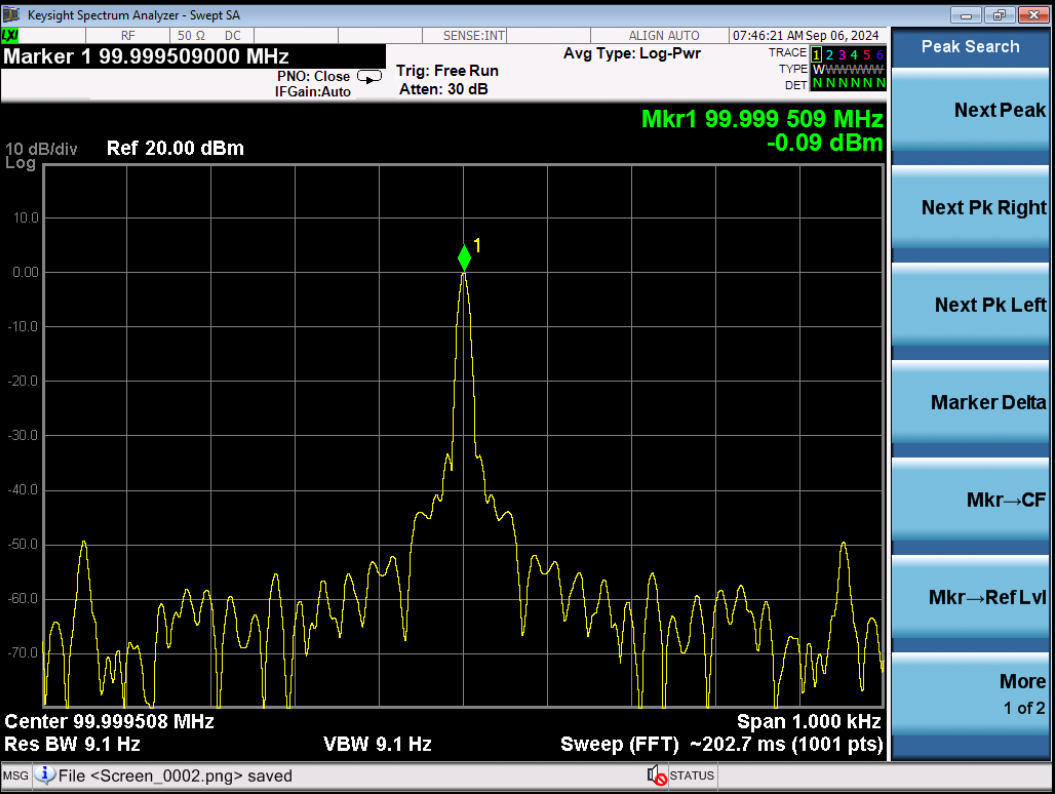


Signal Generator 0dBm out at 1MHz

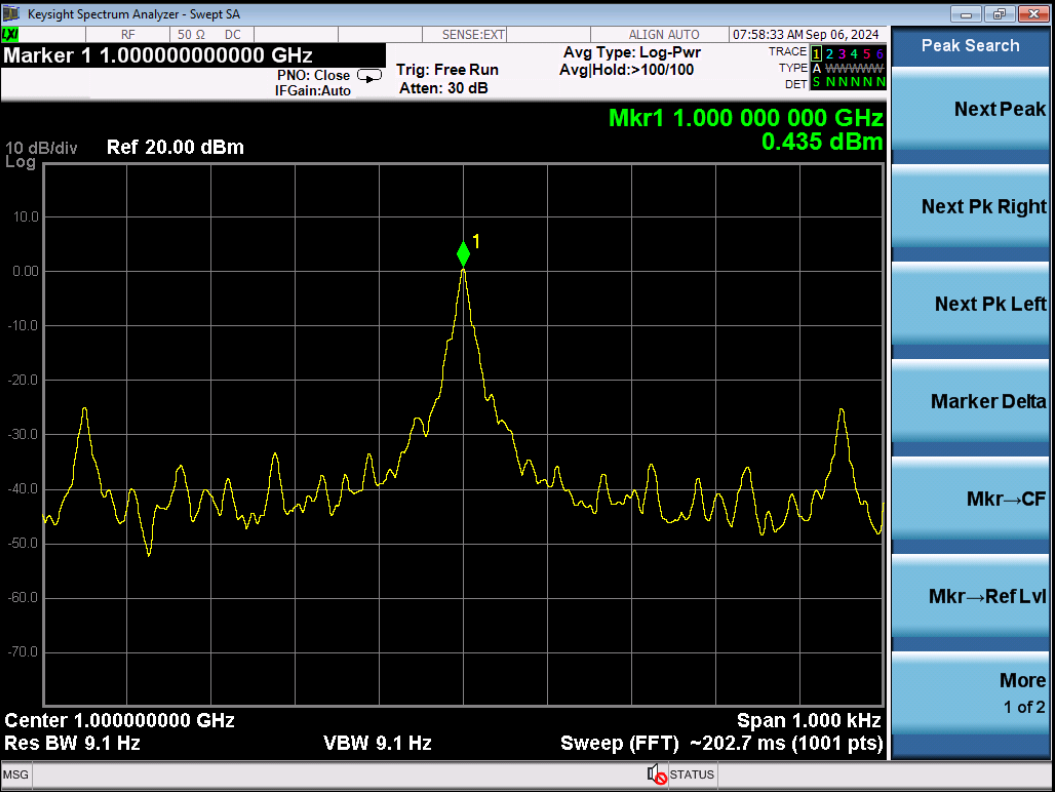




Signal Generator 0dBm out at 100MHz



Signal Generator 0dBm out at 1GHz

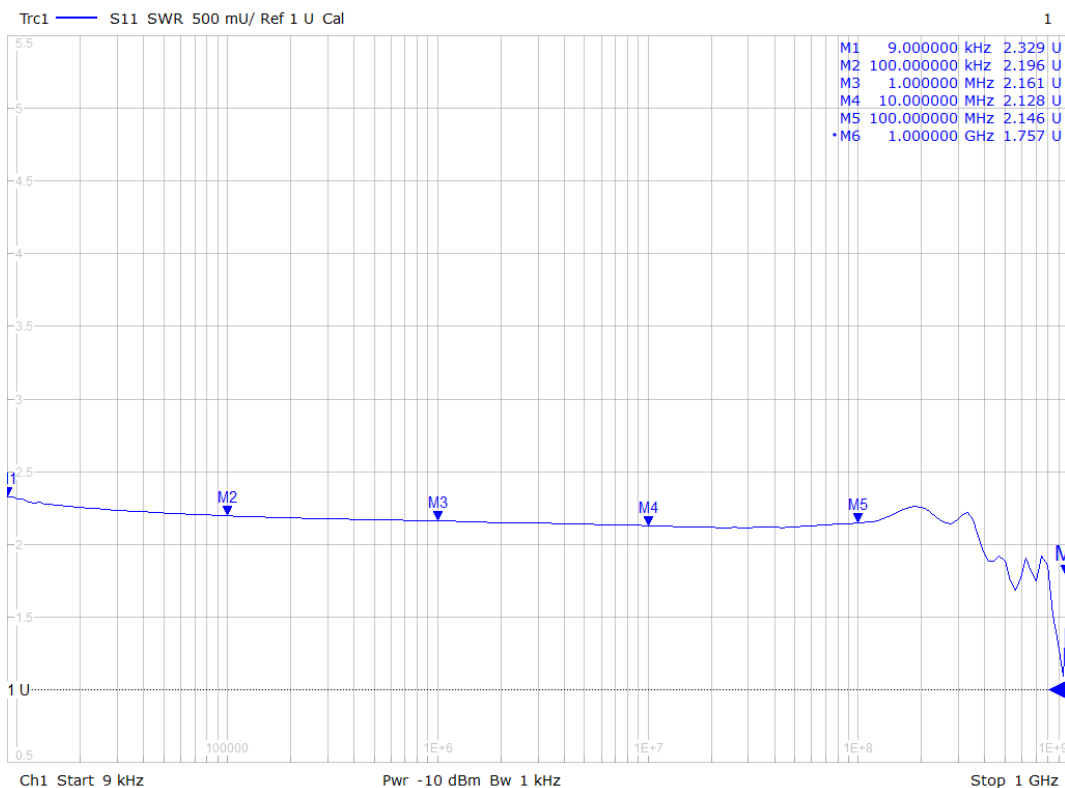




### RF Out Main Generator VSWR - tested at -10 dBm

| Frequency (MHz) | VSWR (U) | Tol. Error (U) | Verdict |
|-----------------|----------|----------------|---------|
| 0.010           | 2.320    | <2.4           | PASS    |
| 0.03            | 2.241    | <2.4           | PASS    |
| 0.06            | 2.211    | <2.4           | PASS    |
| 0.10            | 2.202    | <2.4           | PASS    |
| 0.30            | 2.175    | <2.4           | PASS    |
| 0.60            | 2.171    | <2.4           | PASS    |
| 1               | 2.162    | <2.4           | PASS    |
| 3               | 2.150    | <2.4           | PASS    |
| 6               | 2.144    | <2.4           | PASS    |
| 10              | 2.133    | <2.4           | PASS    |
| 30              | 2.114    | <2.4           | PASS    |
| 60              | 2.133    | <2.4           | PASS    |
| 100             | 2.141    | <2.4           | PASS    |
| 300             | 2.182    | <2.4           | PASS    |
| 1,000           | 1.757    | <2.4           | PASS    |

### RF Out Main Generator VSWR




**Power Meter Ch1 Linearity - tested at 100 MHz**

| Nominal (dBm) | Actual (dBm) | Difference (dBm) | Tol. Error (dBm) | Verdict |
|---------------|--------------|------------------|------------------|---------|
| -25.00        | -25.41       | -0.41            | ±0.50            | PASS    |
| -20.00        | -20.37       | -0.37            | ±0.50            | PASS    |
| -15.00        | -15.22       | -0.22            | ±0.50            | PASS    |
| -10.00        | -10.02       | -0.02            | ±0.50            | PASS    |
| -5.00         | -5.09        | -0.09            | ±0.50            | PASS    |
| 0.00          | 0.01         | 0.01             | ±0.50            | PASS    |
| 5.00          | 4.93         | -0.07            | ±0.50            | PASS    |
| 10.00         | 9.99         | -0.01            | ±0.50            | PASS    |
| 15.00         | 15.08        | 0.08             | ±0.50            | PASS    |

**Power Meter Ch1 Flatness - tested at -10 dBm**

| Frequency (MHz) | Actual (dBm) | Difference (dBm) | Tol. Error (dBm) | Verdict |
|-----------------|--------------|------------------|------------------|---------|
| 0.009           | -10.27       | -0.27            | ±0.50            | PASS    |
| 0.03            | -9.81        | 0.19             | ±0.50            | PASS    |
| 0.06            | -9.82        | 0.18             | ±0.50            | PASS    |
| 0.10            | -9.80        | 0.20             | ±0.50            | PASS    |
| 0.30            | -9.85        | 0.15             | ±0.50            | PASS    |
| 0.60            | -9.89        | 0.11             | ±0.50            | PASS    |
| 1               | -9.90        | 0.10             | ±0.50            | PASS    |
| 3               | -9.97        | 0.03             | ±0.50            | PASS    |
| 6               | -9.97        | 0.03             | ±0.50            | PASS    |
| 10              | -9.91        | 0.09             | ±0.50            | PASS    |
| 30              | -10.00       | 0.00             | ±0.50            | PASS    |
| 60              | -10.05       | -0.05            | ±0.50            | PASS    |
| 100             | -10.02       | -0.02            | ±0.50            | PASS    |
| 300             | -10.15       | -0.15            | ±0.50            | PASS    |
| 600             | -10.08       | -0.08            | ±0.50            | PASS    |
| 1000            | -10.44       | -0.44            | ±0.50            | PASS    |


**Power Meter Ch2 Linearity - tested at 100 MHz**

| Nominal (dBm) | Actual (dBm) | Difference (dBm) | Tol. Error (dBm) | Verdict |
|---------------|--------------|------------------|------------------|---------|
| -25.00        | -25.48       | -0.48            | ±0.50            | PASS    |
| -20.00        | -20.09       | -0.09            | ±0.50            | PASS    |
| -15.00        | -15.03       | -0.03            | ±0.50            | PASS    |
| -10.00        | -10.06       | -0.06            | ±0.50            | PASS    |
| -5.00         | -5.19        | -0.19            | ±0.50            | PASS    |
| 0.00          | 0.00         | 0.00             | ±0.50            | PASS    |
| 5.00          | 5.17         | 0.17             | ±0.50            | PASS    |
| 10.00         | 10.16        | 0.16             | ±0.50            | PASS    |
| 15.00         | 15.29        | 0.29             | ±0.50            | PASS    |

**Power Meter Ch2 Flatness - tested at -10 dBm**

| Frequency (MHz) | Actual (dBm) | Difference (dBm) | Tol. Error (dBm) | Verdict |
|-----------------|--------------|------------------|------------------|---------|
| 0.009           | -10.17       | -0.17            | ±0.50            | PASS    |
| 0.03            | -9.81        | 0.19             | ±0.50            | PASS    |
| 0.06            | -9.82        | 0.18             | ±0.50            | PASS    |
| 0.10            | -9.80        | 0.20             | ±0.50            | PASS    |
| 0.30            | -9.85        | 0.15             | ±0.50            | PASS    |
| 0.60            | -9.89        | 0.11             | ±0.50            | PASS    |
| 1               | -9.90        | 0.10             | ±0.50            | PASS    |
| 3               | -9.95        | 0.05             | ±0.50            | PASS    |
| 6               | -9.99        | 0.01             | ±0.50            | PASS    |
| 10              | -10.06       | -0.06            | ±0.50            | PASS    |
| 30              | -10.00       | 0.00             | ±0.50            | PASS    |
| 60              | -10.05       | -0.05            | ±0.50            | PASS    |
| 100             | -10.06       | -0.06            | ±0.50            | PASS    |
| 300             | -10.15       | -0.15            | ±0.50            | PASS    |
| 600             | -10.08       | -0.08            | ±0.50            | PASS    |
| 1,000           | -10.44       | -0.44            | ±0.50            | PASS    |


**Power Meter Ch3 Linearity - tested at 100 MHz**

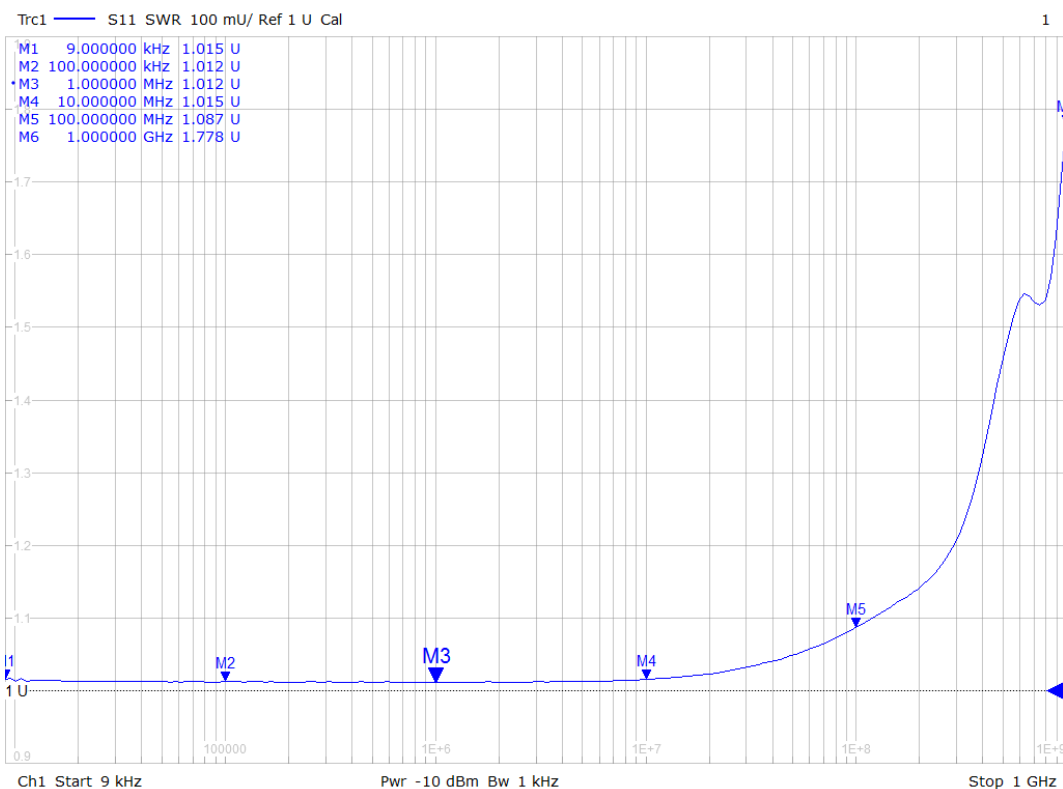
| Nominal (dBm) | Actual (dBm) | Difference (dBm) | Tol. Error (dBm) | Verdict |
|---------------|--------------|------------------|------------------|---------|
| -25.00        | -25.46       | -0.46            | ±0.50            | PASS    |
| -20.00        | -20.11       | -0.11            | ±0.50            | PASS    |
| -15.00        | -15.04       | -0.04            | ±0.50            | PASS    |
| -10.00        | -9.94        | 0.06             | ±0.50            | PASS    |
| -5.00         | -5.18        | -0.18            | ±0.50            | PASS    |
| 0.00          | -0.01        | -0.01            | ±0.50            | PASS    |
| 5.00          | 5.18         | 0.18             | ±0.50            | PASS    |
| 10.00         | 10.26        | 0.26             | ±0.50            | PASS    |
| 15.00         | 15.32        | 0.32             | ±0.50            | PASS    |

**Power Meter Ch3 Flatness - tested at -10 dBm**

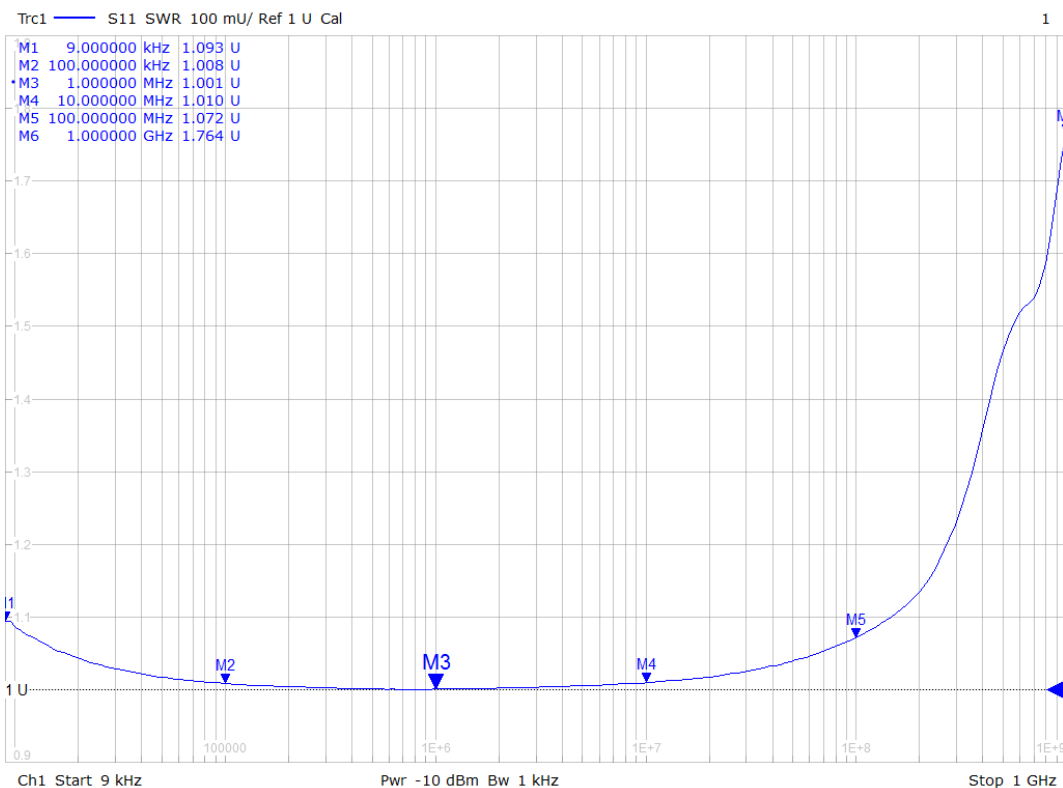
| Frequency (MHz) | Actual (dBm) | Difference (dBm) | Tol. Error (dBm) | Verdict |
|-----------------|--------------|------------------|------------------|---------|
| 0.009           | -10.12       | -0.12            | ±0.50            | PASS    |
| 0.03            | -9.91        | 0.09             | ±0.50            | PASS    |
| 0.06            | -9.82        | 0.18             | ±0.50            | PASS    |
| 0.10            | -9.80        | 0.20             | ±0.50            | PASS    |
| 0.30            | -9.85        | 0.15             | ±0.50            | PASS    |
| 0.60            | -9.89        | 0.11             | ±0.50            | PASS    |
| 1               | -9.91        | 0.09             | ±0.50            | PASS    |
| 3               | -9.96        | 0.04             | ±0.50            | PASS    |
| 6               | -9.97        | 0.03             | ±0.50            | PASS    |
| 10              | -9.94        | 0.06             | ±0.50            | PASS    |
| 30              | -10.01       | -0.01            | ±0.50            | PASS    |
| 60              | -10.03       | -0.03            | ±0.50            | PASS    |
| 100             | -9.94        | 0.06             | ±0.50            | PASS    |
| 300             | -10.15       | -0.15            | ±0.50            | PASS    |
| 600             | -10.08       | -0.08            | ±0.50            | PASS    |
| 1,000           | -10.44       | -0.44            | ±0.50            | PASS    |



### VSWR on Power Meter Ch. 1 Input

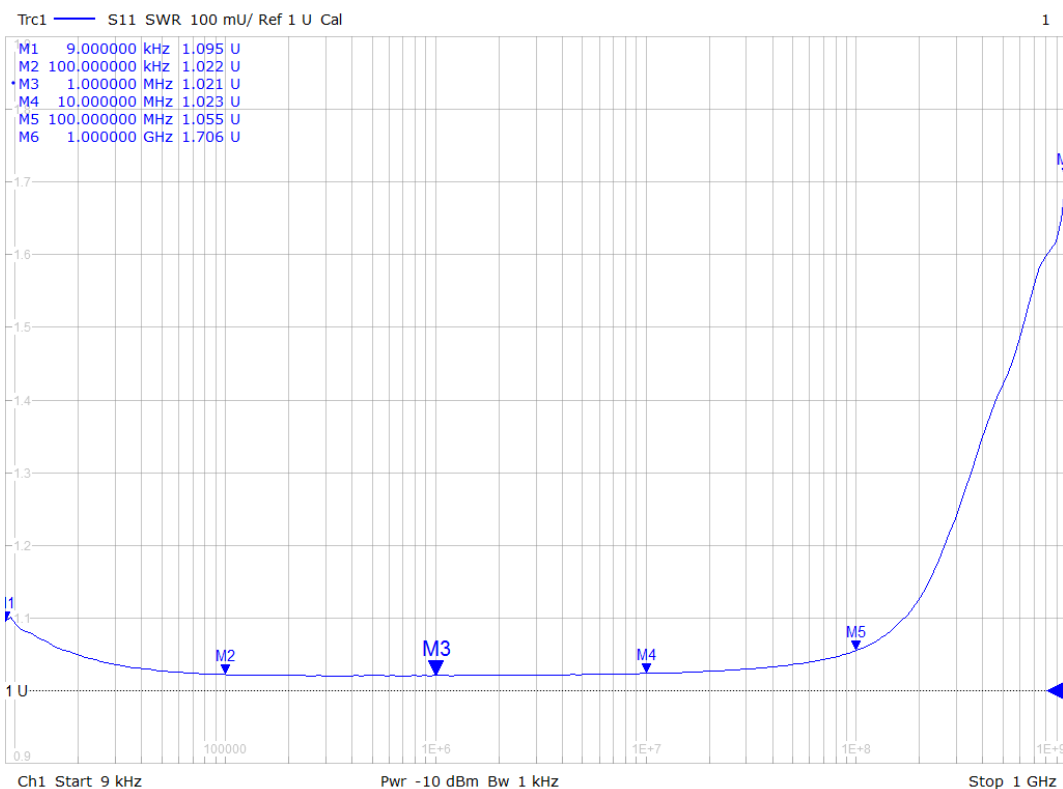


### VSWR on Power Meter Ch. 2 Input





### VSWR on Power Meter Ch. 3 Input





### Harmonics on Amplifier RF Out \_ tested at -10dBm Input

| Frequency (MHz) | 2nd Harmonic (dBc) | Tol. Error (dBc) | Verdict |
|-----------------|--------------------|------------------|---------|
| 0.15            | -42.76             | <-15             | PASS    |
| 0.30            | -42.74             | <-15             | PASS    |
| 0.60            | -44.19             | <-15             | PASS    |
| 1               | -44.65             | <-15             | PASS    |
| 3               | -42.38             | <-15             | PASS    |
| 6               | -40.62             | <-15             | PASS    |
| 10              | -40.97             | <-15             | PASS    |
| 30              | -47.33             | <-15             | PASS    |
| 60              | -45.13             | <-15             | PASS    |
| 100             | -42.21             | <-15             | PASS    |
| 230             | -66.07             | <-15             | PASS    |

### Amplitude Modulation (AM) Depth

Tested at 0dB 150kHz Output, 1kHz AM Frequency 80% AM Depth

| Maximum Envelope (mV) | Minimum Envelope (mV) | AM Depth (%) | Difference (%) | Tol. Error (%) | Verdict |
|-----------------------|-----------------------|--------------|----------------|----------------|---------|
| 576.124               | 80.014                | 75.61%       | 5.49%          | 64 to 84       | PASS    |

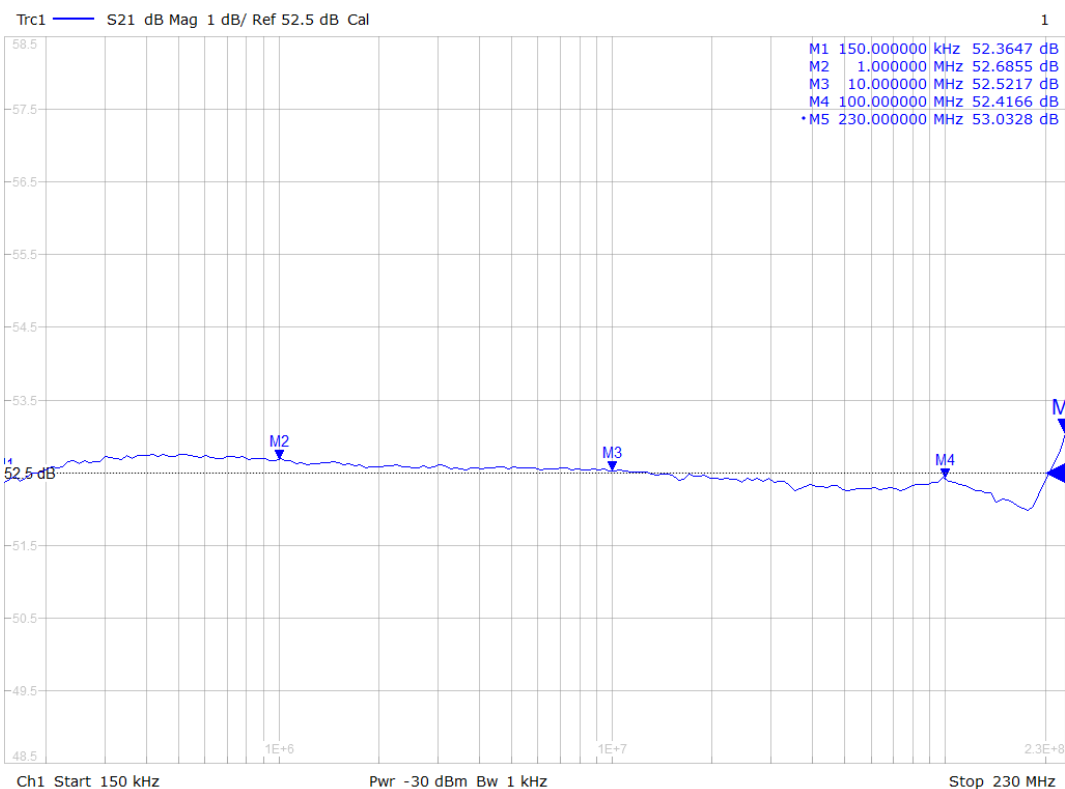
### Amplitude Modulation (AM) Frequency

Tested at 0dB 150kHz Output, 1kHz AM Frequency 80% AM Depth

| Sideband | Expected Sideband Frequency (kHz) | Actual Sideband Frequency (kHz) | Difference (%) | Tol. Error (%) | Verdict |
|----------|-----------------------------------|---------------------------------|----------------|----------------|---------|
| Upper    | 149.000                           | 149.004                         | 0.003%         | ±0.1           | PASS    |
| Lower    | 151.000                           | 151.002                         | 0.001%         | ±0.1           | PASS    |

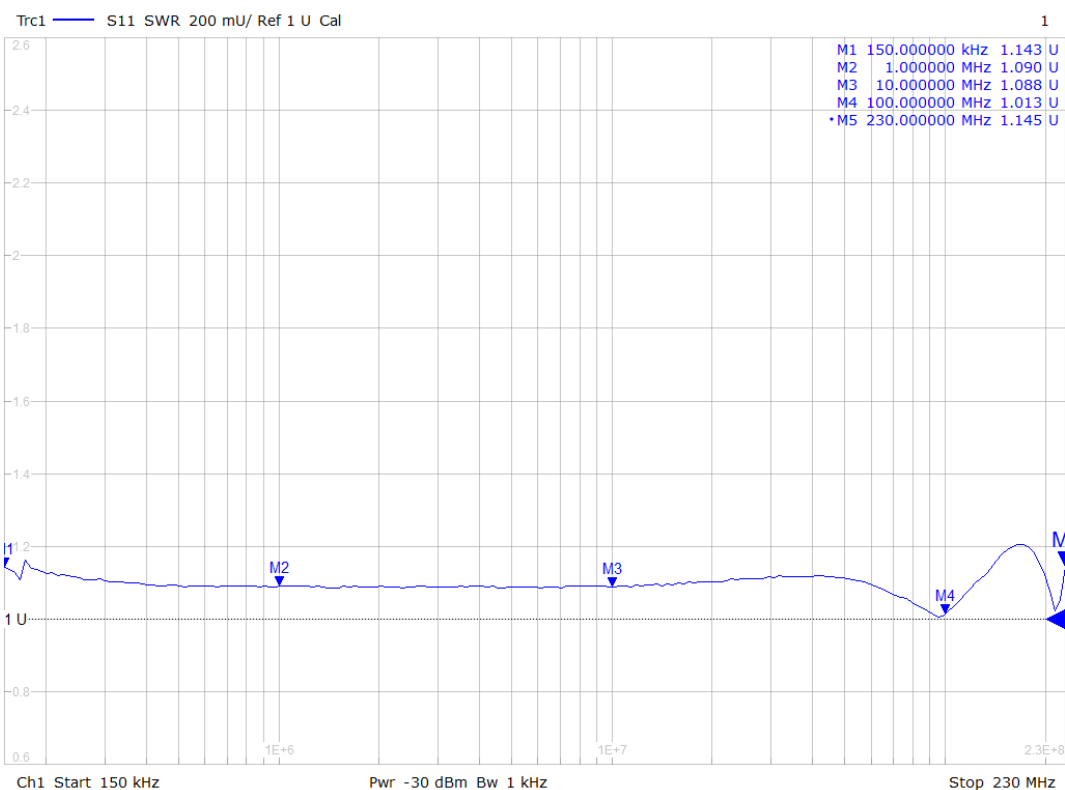


### Gain Through Band



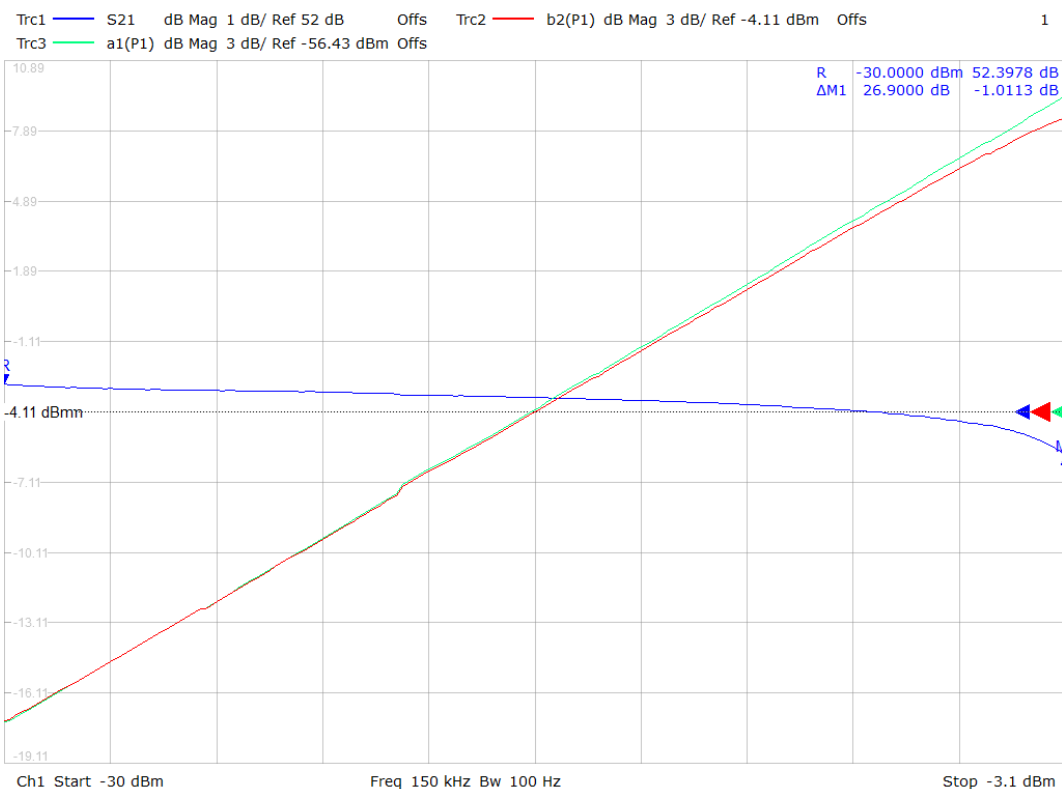
### VSWR on Amplifier Input

Tolerance:  $\leq 1.50$  U

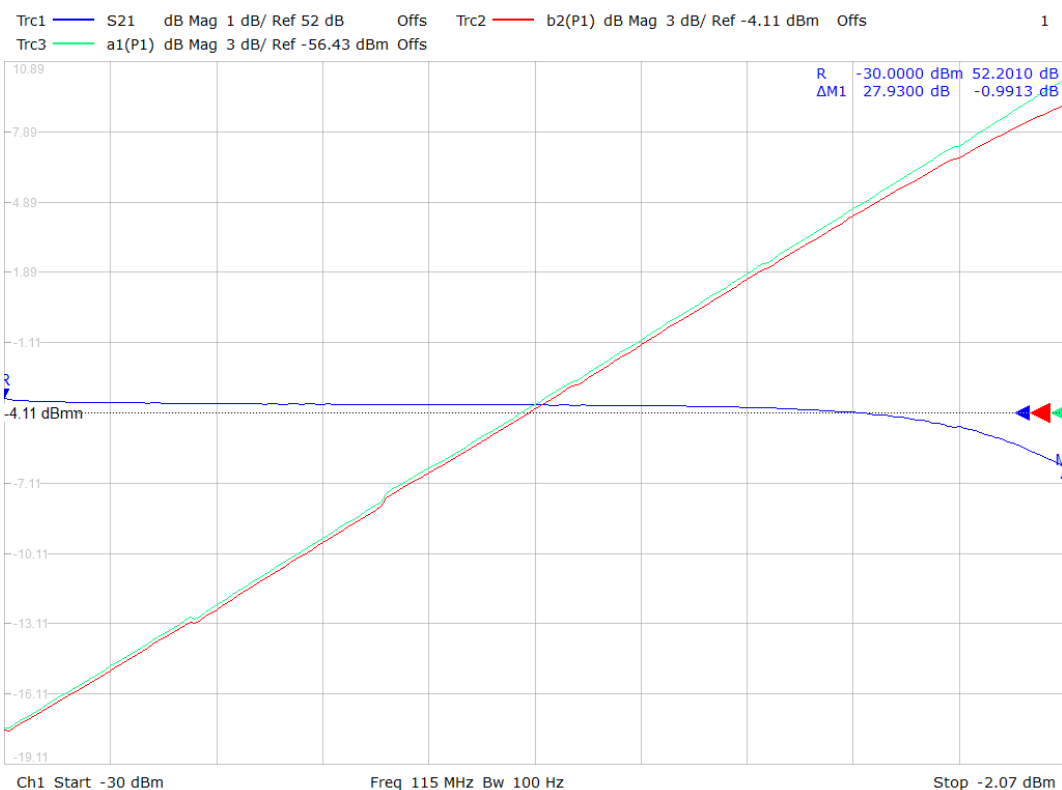




### P1dB Lower Frequency Band - 150kHz



### P1dB Mid Frequency Band - 115 MHz





### P1dB Upper Frequency Band - 230 MHz

Trc1 — S21 dB Mag 1 dB/ Ref 52 dB Offs Trc2 — b2(P1) dB Mag 3 dB/ Ref -3.66 dBm Offs 1  
 Trc3 — a1(P1) dB Mag 3 dB/ Ref -56.43 dBm Offs



| Frequency (Hz) | Gain (dBm) | VSWR (U) |
|----------------|------------|----------|
| 150,000.0      | 52.36      | 1.14     |
| 155,603.5      | 52.41      | 1.14     |
| 161,416.4      | 52.45      | 1.13     |
| 167,446.4      | 52.37      | 1.11     |
| 173,701.7      | 52.43      | 1.16     |
| 180,190.6      | 52.49      | 1.14     |
| 186,922.0      | 52.50      | 1.14     |
| 193,904.8      | 52.50      | 1.13     |
| 201,148.5      | 52.55      | 1.12     |
| 208,662.7      | 52.58      | 1.13     |
| 216,457.7      | 52.56      | 1.12     |
| 224,543.9      | 52.58      | 1.12     |
| 232,932.2      | 52.65      | 1.12     |
| 241,633.8      | 52.66      | 1.12     |
| 250,660.5      | 52.62      | 1.11     |
| 260,024.3      | 52.67      | 1.11     |
| 269,738.0      | 52.64      | 1.11     |
| 279,814.6      | 52.65      | 1.11     |
| 290,267.6      | 52.64      | 1.11     |
| 301,111.1      | 52.72      | 1.11     |
| 312,359.6      | 52.70      | 1.10     |
| 324,028.4      | 52.70      | 1.10     |
| 336,133.1      | 52.68      | 1.10     |
| 348,690.0      | 52.73      | 1.10     |
| 361,715.9      | 52.69      | 1.10     |
| 375,228.5      | 52.73      | 1.10     |
| 389,245.9      | 52.74      | 1.10     |
| 403,786.9      | 52.73      | 1.09     |
| 418,871.1      | 52.75      | 1.09     |
| 434,518.8      | 52.72      | 1.09     |
| 450,751.1      | 52.75      | 1.09     |
| 467,589.7      | 52.72      | 1.09     |
| 485,057.4      | 52.72      | 1.09     |
| 503,177.6      | 52.76      | 1.09     |
| 521,974.7      | 52.75      | 1.09     |
| 541,474.1      | 52.73      | 1.09     |
| 561,701.8      | 52.73      | 1.09     |
| 582,685.3      | 52.71      | 1.09     |
| 604,452.5      | 52.73      | 1.09     |
| 627,033.0      | 52.71      | 1.09     |

|             |       |      |
|-------------|-------|------|
| 650,457.0   | 52.69 | 1.09 |
| 674,756.0   | 52.69 | 1.09 |
| 699,962.8   | 52.72 | 1.09 |
| 726,111.2   | 52.72 | 1.09 |
| 753,236.4   | 52.71 | 1.09 |
| 781,375.0   | 52.72 | 1.09 |
| 810,564.7   | 52.68 | 1.09 |
| 840,844.8   | 52.70 | 1.09 |
| 872,256.1   | 52.70 | 1.09 |
| 904,840.9   | 52.70 | 1.09 |
| 938,642.9   | 52.67 | 1.09 |
| 973,707.7   | 52.66 | 1.09 |
| 1,010,082.3 | 52.69 | 1.09 |
| 1,047,815.8 | 52.67 | 1.09 |
| 1,086,958.9 | 52.66 | 1.09 |
| 1,127,564.3 | 52.63 | 1.09 |
| 1,169,686.6 | 52.64 | 1.09 |
| 1,213,382.4 | 52.61 | 1.09 |
| 1,258,710.5 | 52.63 | 1.09 |
| 1,305,732.0 | 52.62 | 1.09 |
| 1,354,510.1 | 52.63 | 1.09 |
| 1,405,110.3 | 52.63 | 1.09 |
| 1,457,600.8 | 52.65 | 1.09 |
| 1,512,052.2 | 52.63 | 1.09 |
| 1,568,537.7 | 52.61 | 1.09 |
| 1,627,133.4 | 52.63 | 1.09 |
| 1,687,917.9 | 52.59 | 1.09 |
| 1,750,973.3 | 52.61 | 1.09 |
| 1,816,384.1 | 52.57 | 1.09 |
| 1,884,238.5 | 52.58 | 1.09 |
| 1,954,627.8 | 52.57 | 1.09 |
| 2,027,646.5 | 52.58 | 1.09 |
| 2,103,393.0 | 52.60 | 1.09 |
| 2,181,969.2 | 52.59 | 1.09 |
| 2,263,480.7 | 52.60 | 1.09 |
| 2,348,037.2 | 52.57 | 1.09 |
| 2,435,752.5 | 52.58 | 1.09 |
| 2,526,744.6 | 52.57 | 1.09 |
| 2,621,135.8 | 52.56 | 1.09 |
| 2,719,053.2 | 52.60 | 1.09 |
| 2,820,628.5 | 52.57 | 1.09 |
| 2,925,998.3 | 52.59 | 1.09 |
| 3,035,304.4 | 52.61 | 1.09 |
| 3,148,693.9 | 52.59 | 1.09 |

|              |       |      |
|--------------|-------|------|
| 3,266,319.2  | 52.55 | 1.09 |
| 3,388,338.6  | 52.57 | 1.09 |
| 3,514,916.3  | 52.55 | 1.09 |
| 3,646,222.5  | 52.54 | 1.09 |
| 3,782,434.0  | 52.56 | 1.09 |
| 3,923,733.8  | 52.57 | 1.09 |
| 4,070,312.2  | 52.55 | 1.09 |
| 4,222,366.3  | 52.57 | 1.09 |
| 4,380,100.6  | 52.56 | 1.09 |
| 4,543,727.4  | 52.58 | 1.09 |
| 4,713,466.8  | 52.58 | 1.09 |
| 4,889,547.1  | 52.55 | 1.09 |
| 5,072,205.2  | 52.57 | 1.09 |
| 5,261,686.9  | 52.56 | 1.09 |
| 5,458,247.0  | 52.57 | 1.09 |
| 5,662,149.9  | 52.56 | 1.09 |
| 5,873,670.1  | 52.56 | 1.09 |
| 6,093,091.9  | 52.53 | 1.09 |
| 6,320,710.7  | 52.55 | 1.09 |
| 6,556,832.6  | 52.55 | 1.09 |
| 6,801,775.3  | 52.55 | 1.09 |
| 7,055,868.2  | 52.56 | 1.09 |
| 7,319,453.3  | 52.56 | 1.09 |
| 7,592,885.1  | 52.54 | 1.09 |
| 7,876,531.4  | 52.56 | 1.09 |
| 8,170,773.9  | 52.54 | 1.09 |
| 8,476,008.4  | 52.54 | 1.09 |
| 8,792,645.4  | 52.55 | 1.09 |
| 9,121,111.0  | 52.53 | 1.09 |
| 9,461,847.1  | 52.54 | 1.09 |
| 9,815,312.0  | 52.52 | 1.09 |
| 10,181,981.2 | 52.52 | 1.09 |
| 10,562,348.0 | 52.54 | 1.09 |
| 10,956,924.2 | 52.52 | 1.09 |
| 11,366,240.5 | 52.51 | 1.09 |
| 11,790,847.5 | 52.51 | 1.09 |
| 12,231,316.5 | 52.51 | 1.09 |
| 12,688,240.1 | 52.51 | 1.09 |
| 13,162,232.9 | 52.48 | 1.09 |
| 13,653,932.6 | 52.47 | 1.10 |
| 14,164,000.6 | 52.49 | 1.09 |
| 14,693,123.2 | 52.49 | 1.10 |
| 15,242,012.1 | 52.46 | 1.09 |
| 15,811,405.8 | 52.39 | 1.10 |

|              |       |      |
|--------------|-------|------|
| 16,402,070.3 | 52.41 | 1.10 |
| 17,014,800.1 | 52.48 | 1.10 |
| 17,650,419.6 | 52.45 | 1.10 |
| 18,309,783.8 | 52.45 | 1.10 |
| 18,993,779.9 | 52.47 | 1.10 |
| 19,703,327.8 | 52.43 | 1.10 |
| 20,439,382.2 | 52.43 | 1.10 |
| 21,202,933.4 | 52.41 | 1.10 |
| 21,995,008.4 | 52.42 | 1.10 |
| 22,816,672.8 | 52.40 | 1.11 |
| 23,669,032.0 | 52.41 | 1.11 |
| 24,553,232.7 | 52.37 | 1.11 |
| 25,470,464.4 | 52.43 | 1.11 |
| 26,421,960.9 | 52.39 | 1.11 |
| 27,409,002.4 | 52.42 | 1.11 |
| 28,432,916.6 | 52.38 | 1.11 |
| 29,495,081.1 | 52.42 | 1.12 |
| 30,596,924.7 | 52.37 | 1.11 |
| 31,739,929.7 | 52.38 | 1.12 |
| 32,925,633.8 | 52.37 | 1.12 |
| 34,155,632.0 | 52.33 | 1.12 |
| 35,431,579.2 | 52.24 | 1.12 |
| 36,755,191.7 | 52.27 | 1.12 |
| 38,128,250.2 | 52.31 | 1.12 |
| 39,552,601.9 | 52.34 | 1.12 |
| 41,030,162.8 | 52.31 | 1.12 |
| 42,562,920.8 | 52.30 | 1.12 |
| 44,152,937.9 | 52.30 | 1.12 |
| 45,802,353.0 | 52.32 | 1.12 |
| 47,513,385.0 | 52.32 | 1.11 |
| 49,288,335.8 | 52.27 | 1.11 |
| 51,129,593.2 | 52.25 | 1.11 |
| 53,039,634.3 | 52.26 | 1.11 |
| 55,021,028.4 | 52.28 | 1.11 |
| 57,076,441.2 | 52.27 | 1.10 |
| 59,208,637.8 | 52.27 | 1.10 |
| 61,420,486.5 | 52.29 | 1.09 |
| 63,714,963.0 | 52.27 | 1.09 |
| 66,095,153.9 | 52.28 | 1.08 |
| 68,564,261.2 | 52.30 | 1.07 |
| 71,125,606.7 | 52.28 | 1.07 |
| 73,782,635.9 | 52.26 | 1.06 |
| 76,538,923.5 | 52.28 | 1.06 |
| 79,398,177.2 | 52.32 | 1.05 |

|               |       |      |
|---------------|-------|------|
| 82,364,243.8  | 52.33 | 1.04 |
| 85,441,113.2  | 52.34 | 1.03 |
| 88,632,924.8  | 52.34 | 1.02 |
| 91,943,972.5  | 52.37 | 1.01 |
| 95,378,710.6  | 52.36 | 1.01 |
| 98,941,759.6  | 52.43 | 1.01 |
| 102,637,913.0 | 52.38 | 1.02 |
| 106,472,143.0 | 52.36 | 1.04 |
| 110,449,607.9 | 52.33 | 1.05 |
| 114,575,658.3 | 52.32 | 1.07 |
| 118,855,845.0 | 52.30 | 1.08 |
| 123,295,926.1 | 52.25 | 1.10 |
| 127,901,874.6 | 52.25 | 1.11 |
| 132,679,886.9 | 52.22 | 1.12 |
| 137,636,390.8 | 52.23 | 1.14 |
| 142,778,054.0 | 52.09 | 1.16 |
| 148,111,793.7 | 52.14 | 1.18 |
| 153,644,785.1 | 52.12 | 1.19 |
| 159,384,471.7 | 52.10 | 1.20 |
| 165,338,574.9 | 52.04 | 1.21 |
| 171,515,104.8 | 52.01 | 1.21 |
| 177,922,370.4 | 51.98 | 1.20 |
| 184,568,991.3 | 52.03 | 1.18 |
| 191,463,909.1 | 52.19 | 1.16 |
| 198,616,399.4 | 52.38 | 1.12 |
| 206,036,084.2 | 52.52 | 1.08 |
| 213,732,945.2 | 52.64 | 1.02 |
| 221,717,336.7 | 52.81 | 1.05 |
| 230,000,000.0 | 53.03 | 1.14 |

*End of Calibration Report: NSG 4070 cert. rev. 3*