



Appendix B

RF Test Data for BLE (Conducted Measurement)

Product Name: Bluetooth Earbuds

Test Model: Airyou Fly 2

Environmental Conditions

| | |
|--------------------|----------------------|
| Temperature: | 23.5 °C |
| Relative Humidity: | 52.2% |
| ATM Pressure: | 100.0 kPa |
| Test Engineer: | Joker.Hu Joker Hu |
| Supervised by: | Libu Li huan |





B.1 -6dB Bandwidth

Left

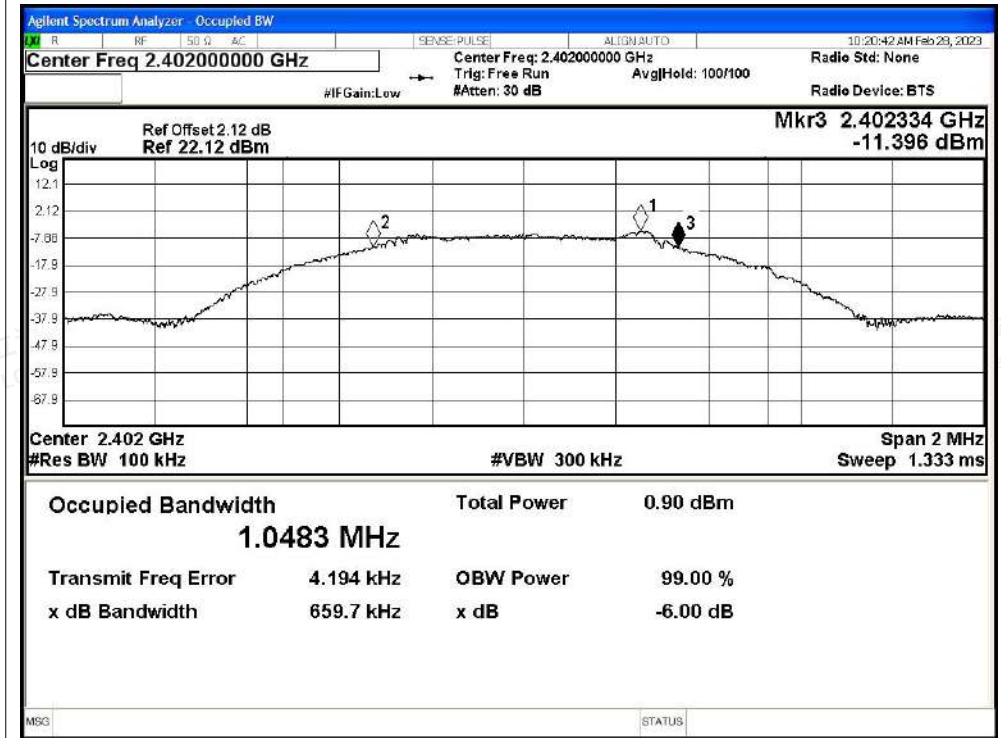
| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|--------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT | BLE 1M | 2402 | Ant1 | 0.66 | ≥ 0.5 | Pass |
| NVNT | BLE 1M | 2440 | Ant1 | 0.656 | ≥ 0.5 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | 0.661 | ≥ 0.5 | Pass |



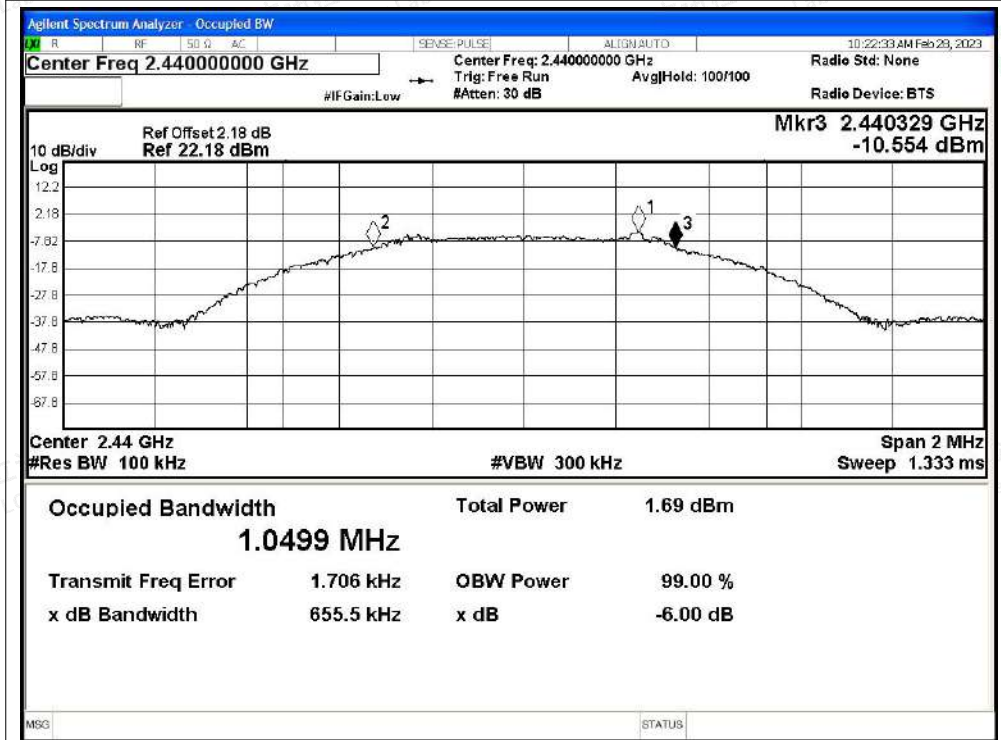


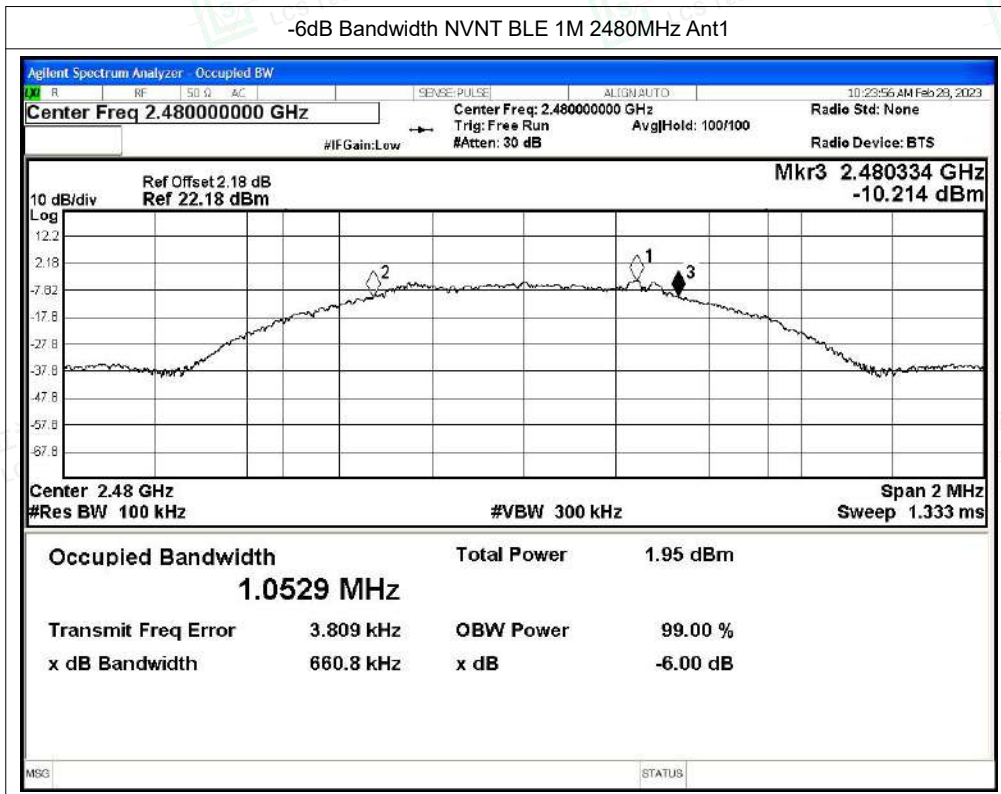
Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1





Right

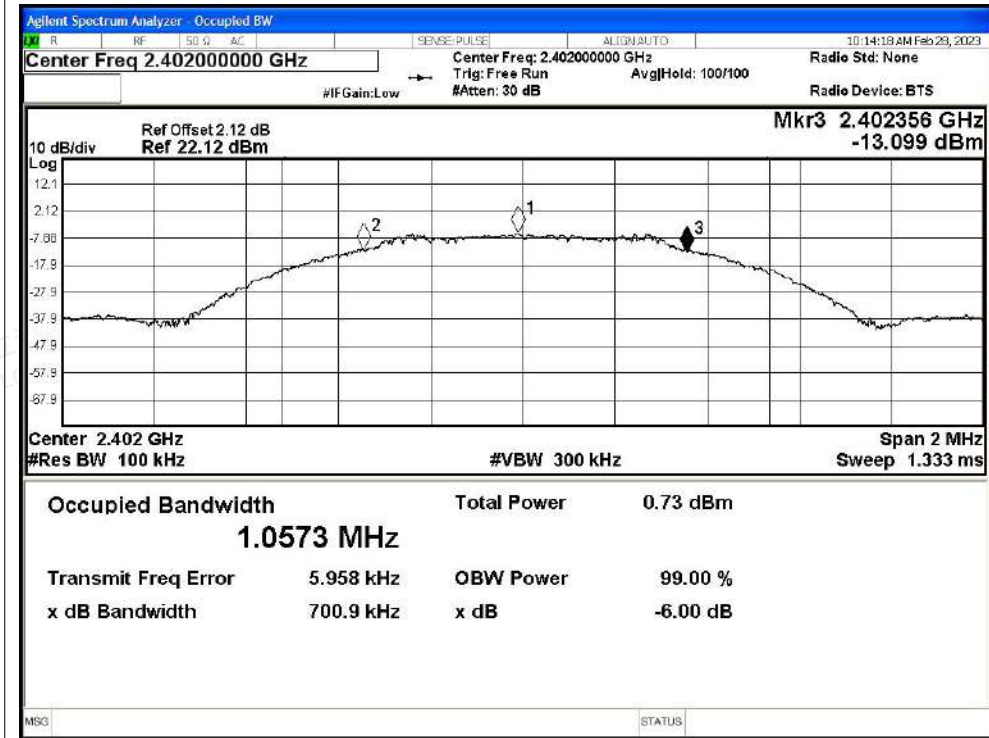
| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|--------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT | BLE 1M | 2402 | Ant1 | 0.701 | >=0.5 | Pass |
| NVNT | BLE 1M | 2440 | Ant1 | 0.647 | >=0.5 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | 0.696 | >=0.5 | Pass |



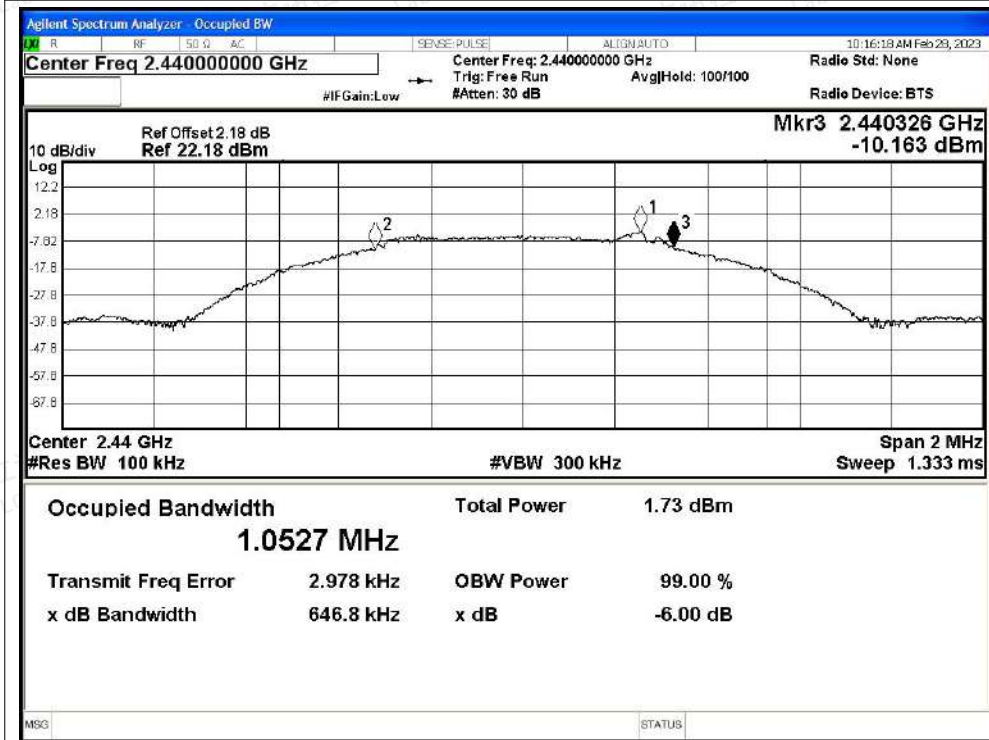


Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1

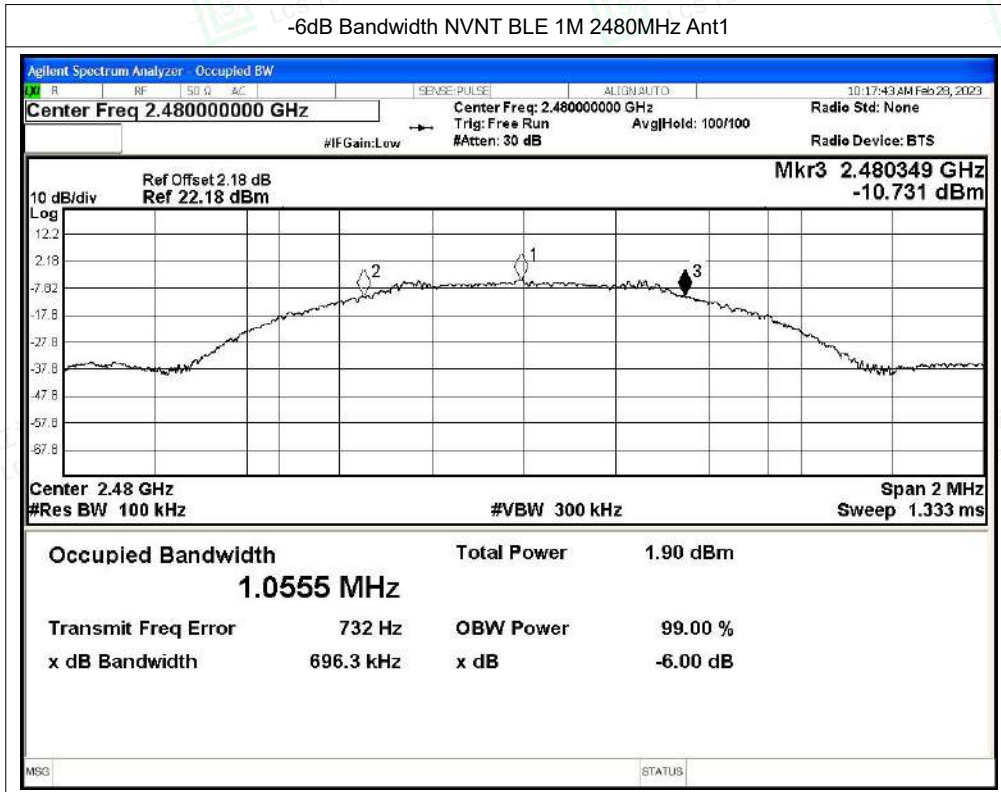


-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1





-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1





B.2 Maximum Conducted Output Power

Left

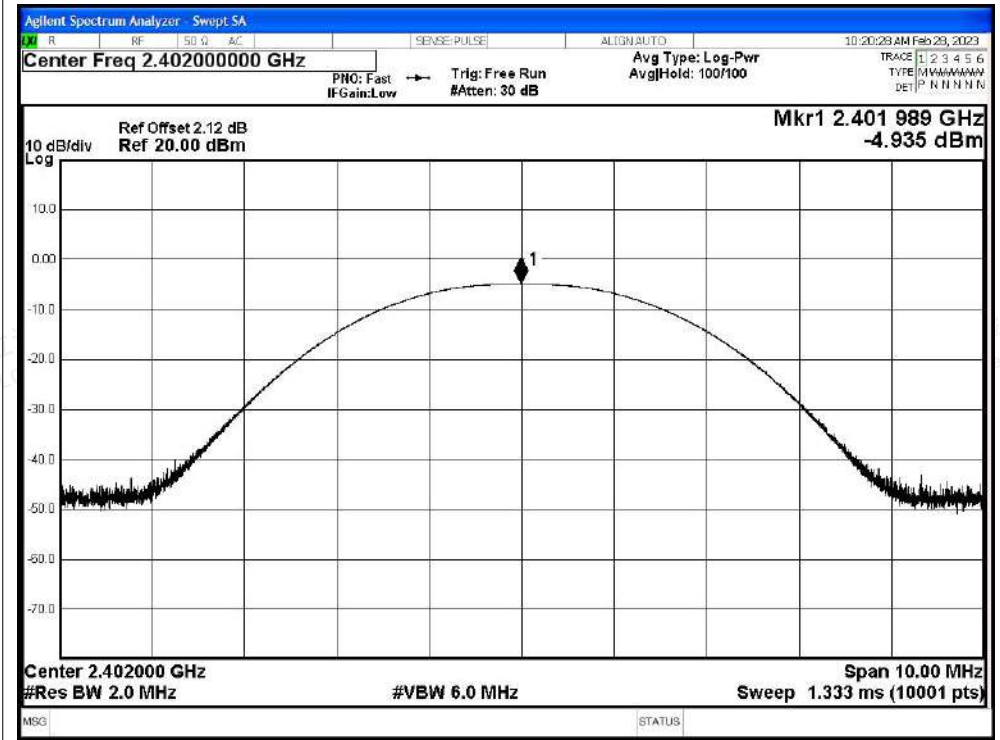
| Condition | Mode | Frequency (MHz) | Antenna | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|--------|-----------------|---------|-------------------|-------------|---------|
| NVNT | BLE 1M | 2402 | Ant1 | -4.93 | 30 | Pass |
| NVNT | BLE 1M | 2440 | Ant1 | -4.13 | 30 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | -3.87 | 30 | Pass |



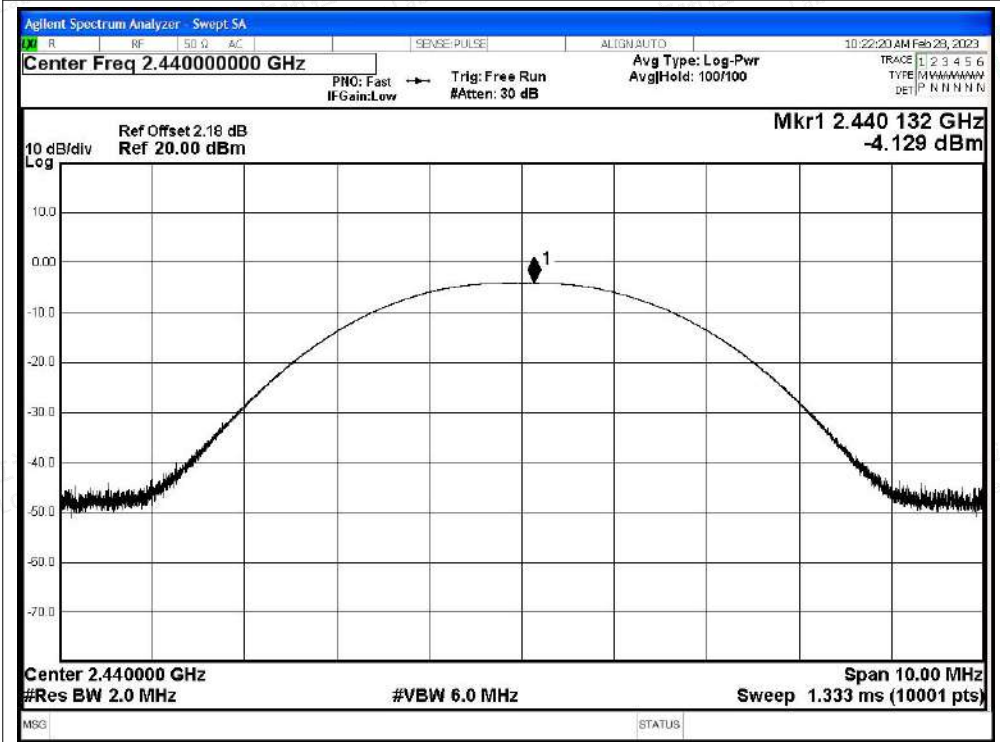


Test Graphs

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1

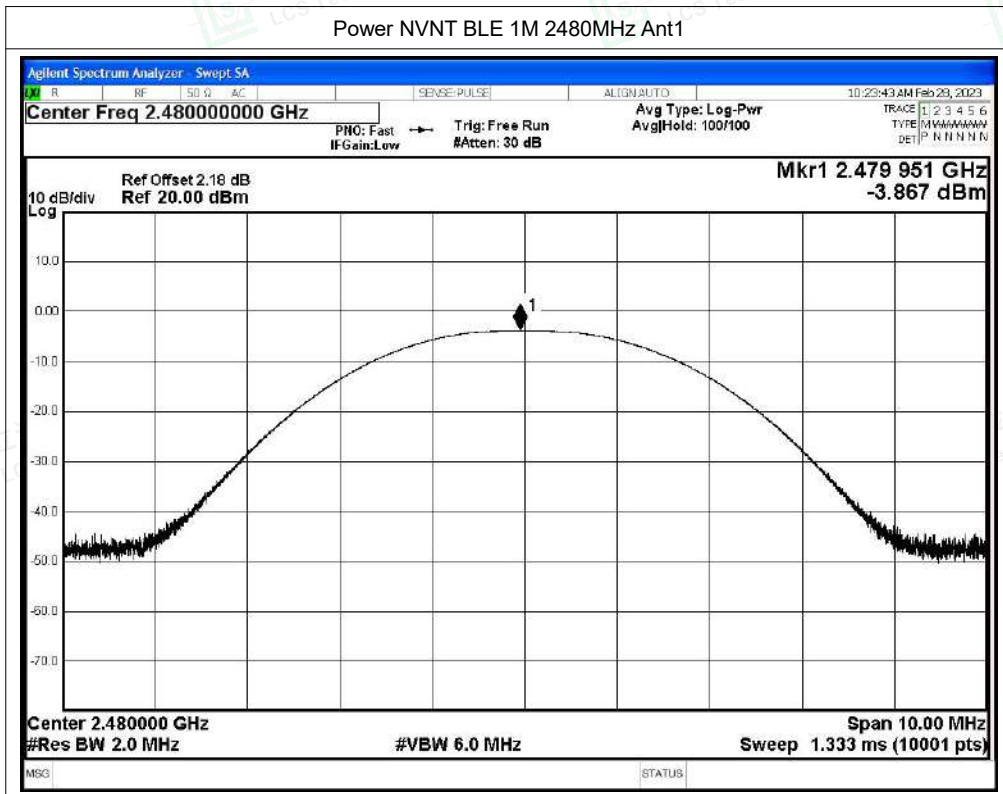


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Right

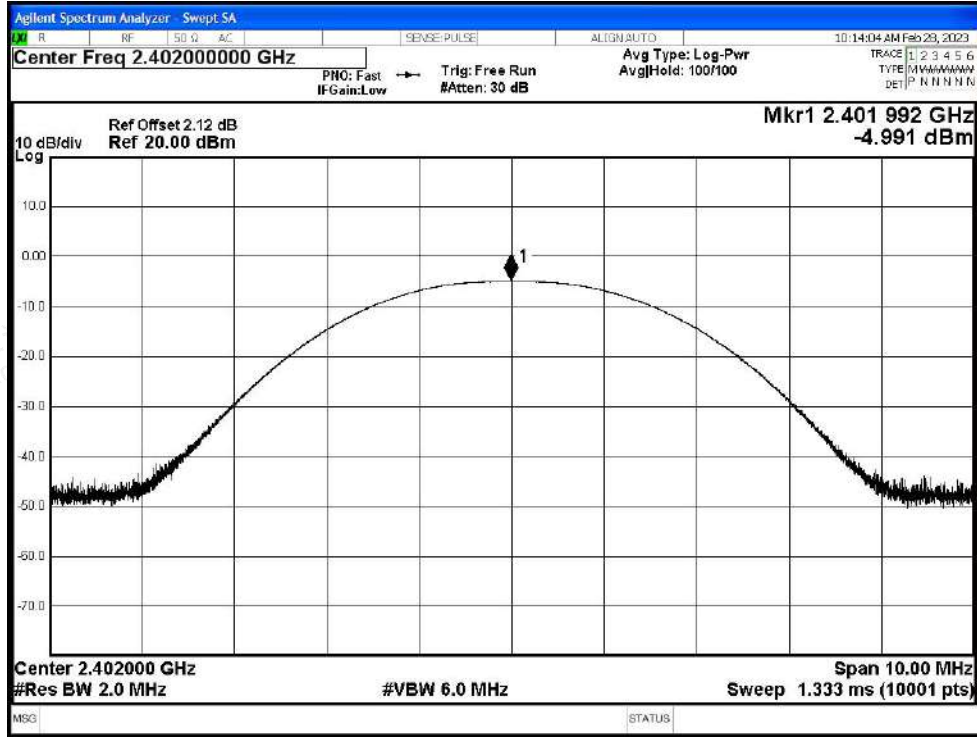
| Condition | Mode | Frequency (MHz) | Antenna | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|--------|-----------------|---------|-------------------|-------------|---------|
| NVNT | BLE 1M | 2402 | Ant1 | -4.99 | 30 | Pass |
| NVNT | BLE 1M | 2440 | Ant1 | -4.16 | 30 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | -3.88 | 30 | Pass |



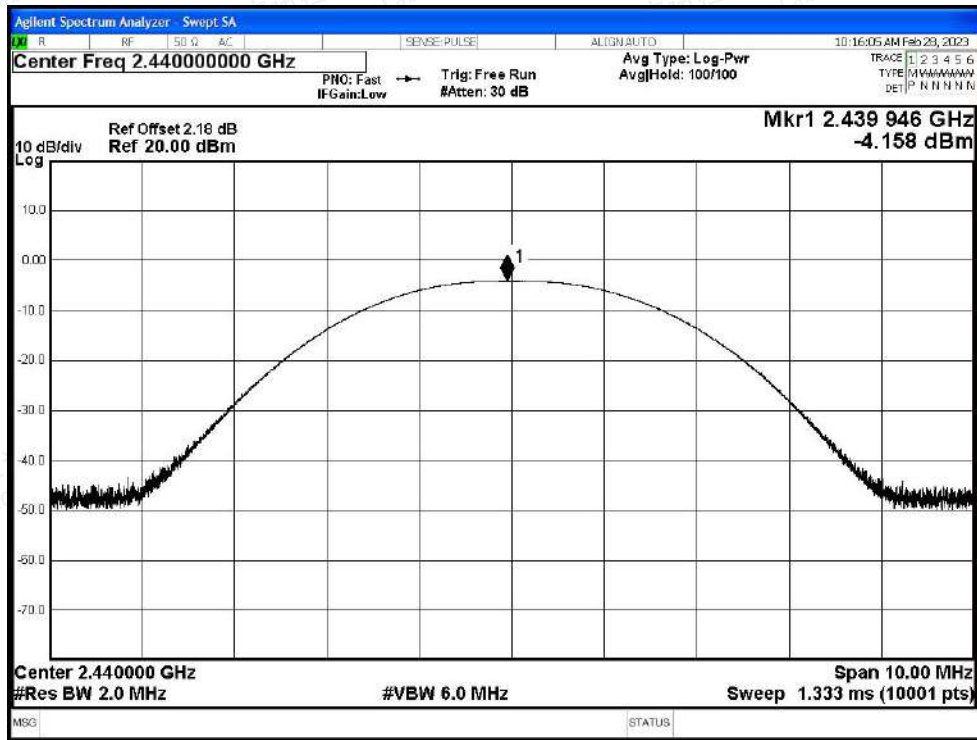


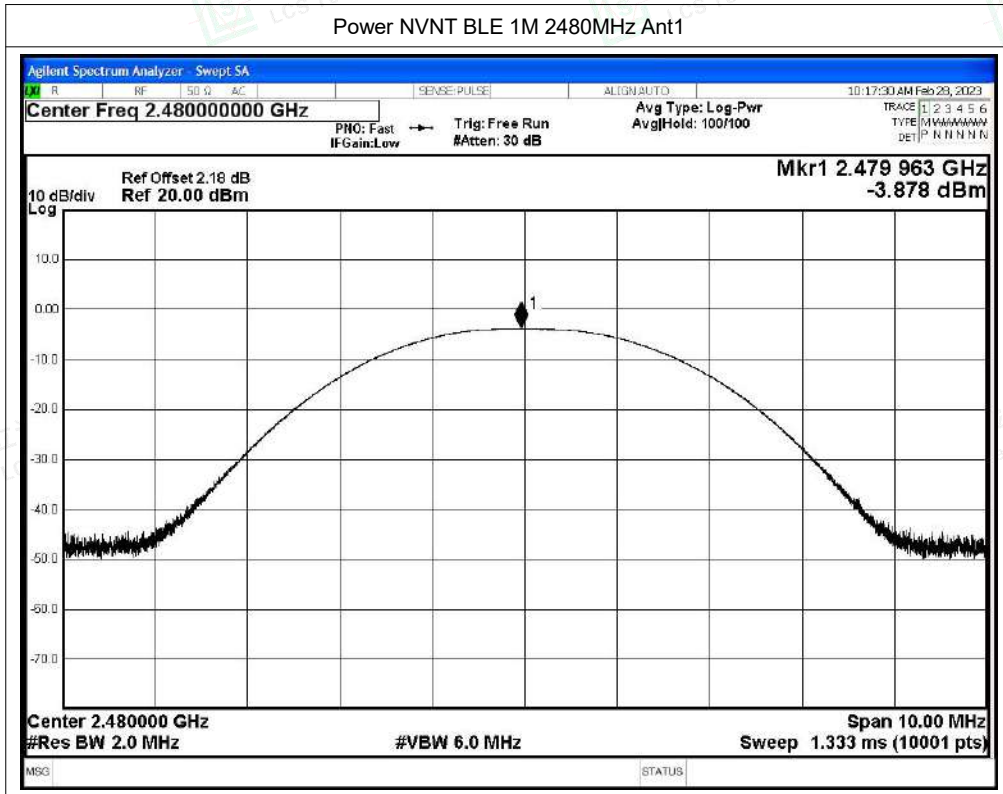
Test Graphs

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1







B.3 Maximum Power Spectral Density Level

Left

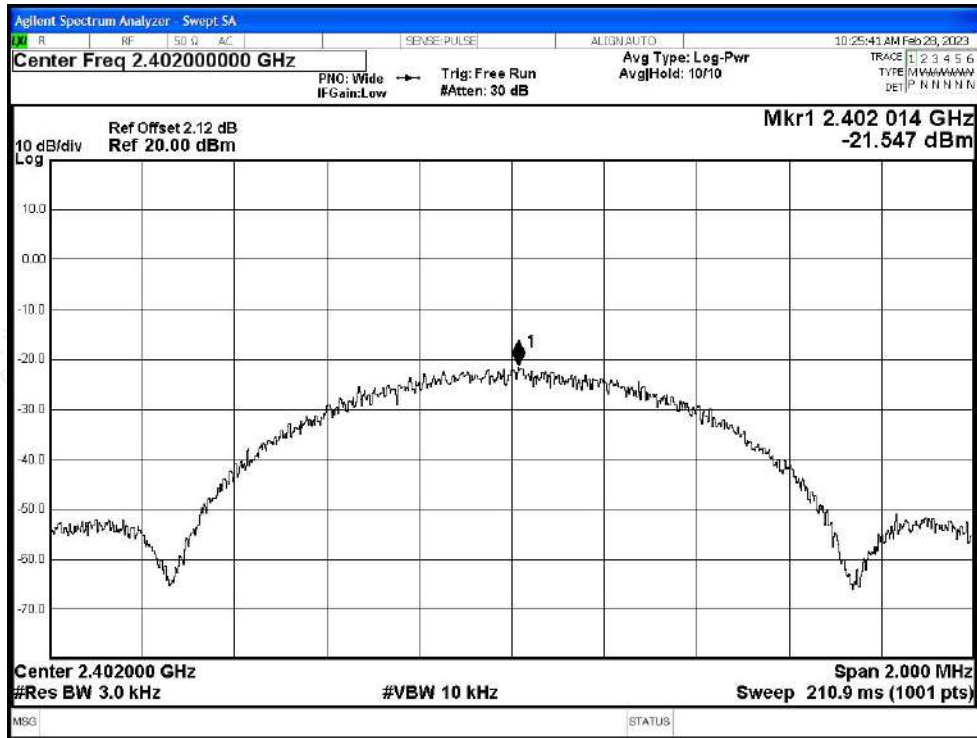
| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm/3kHz) | Duty Factor (dB) | Total PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|-----------|--------|-----------------|---------|--------------------------|------------------|----------------------|------------------|---------|
| NVNT | BLE 1M | 2402 | Ant1 | -21.55 | 0 | -21.55 | 8 | Pass |
| NVNT | BLE 1M | 2440 | Ant1 | -20.82 | 0 | -20.82 | 8 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | -20.22 | 0 | -20.22 | 8 | Pass |



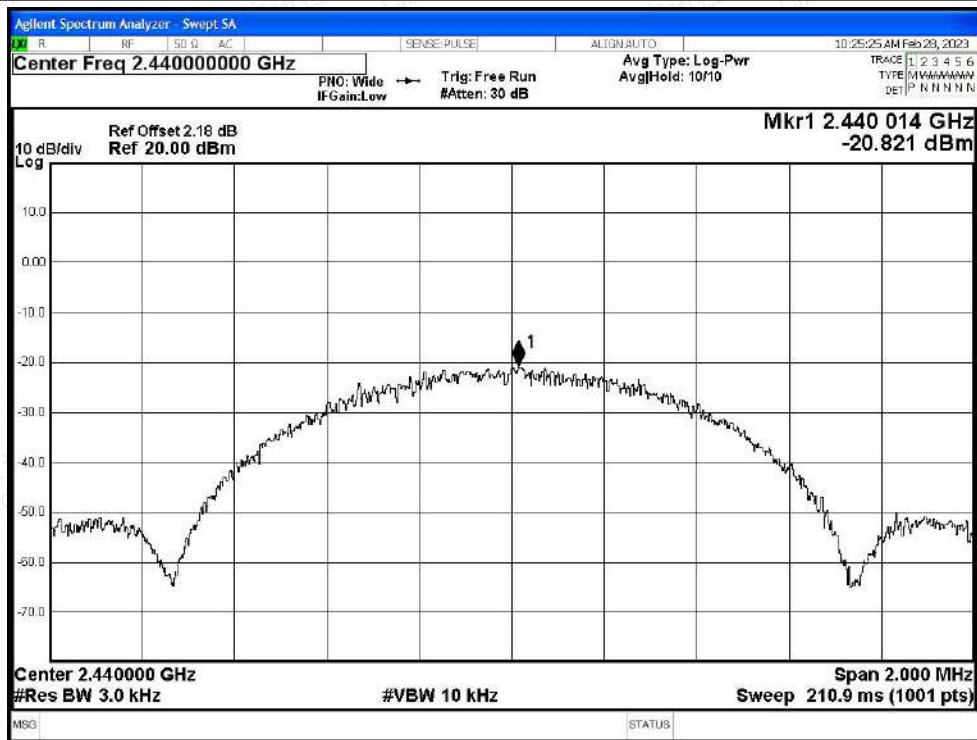


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1

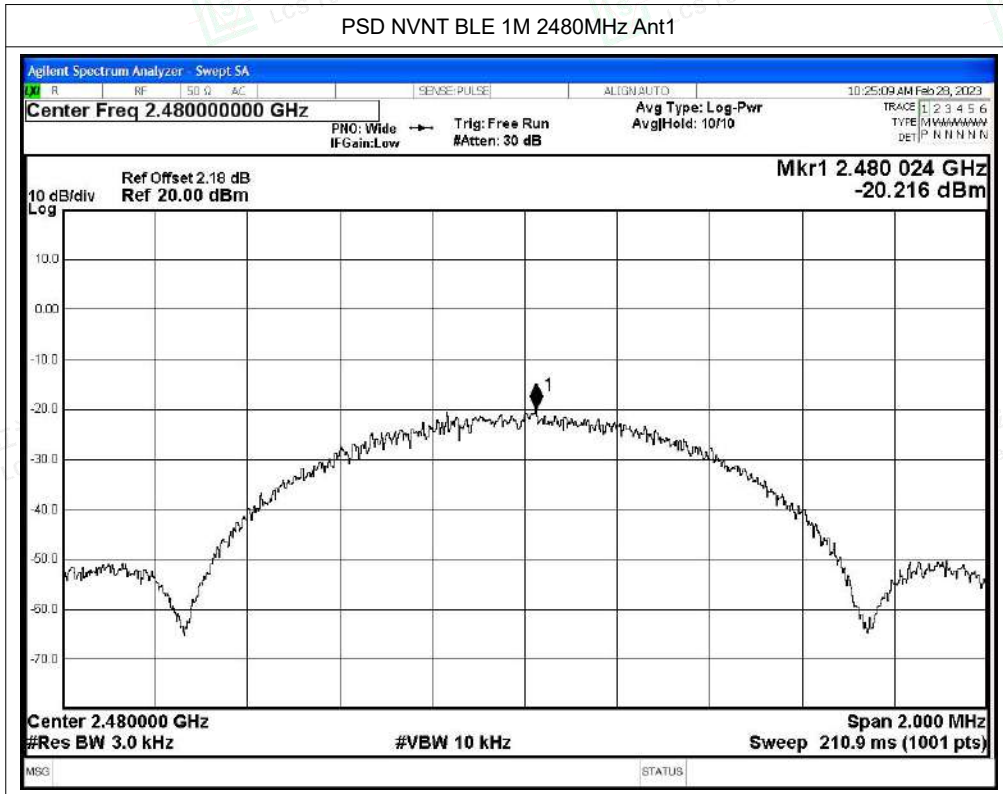


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Right

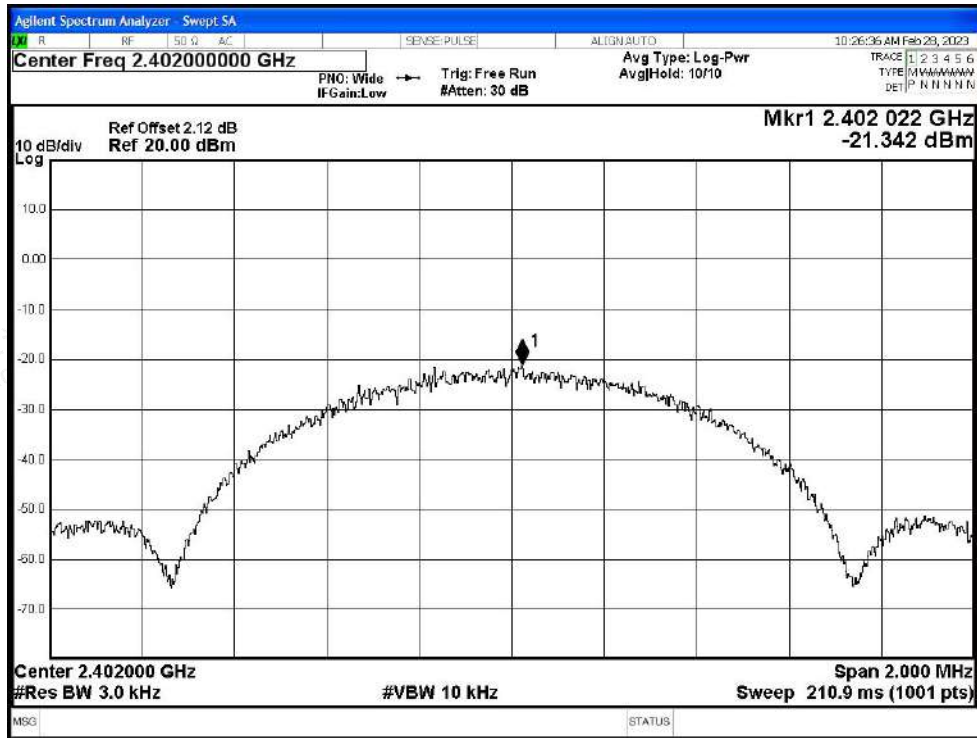
| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm/3kHz) | Duty Factor (dB) | Total PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|-----------|--------|-----------------|---------|--------------------------|------------------|----------------------|------------------|---------|
| NVNT | BLE 1M | 2402 | Ant1 | -21.34 | 0 | -21.34 | 8 | Pass |
| NVNT | BLE 1M | 2440 | Ant1 | -20.72 | 0 | -20.72 | 8 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | -20.54 | 0 | -20.54 | 8 | Pass |



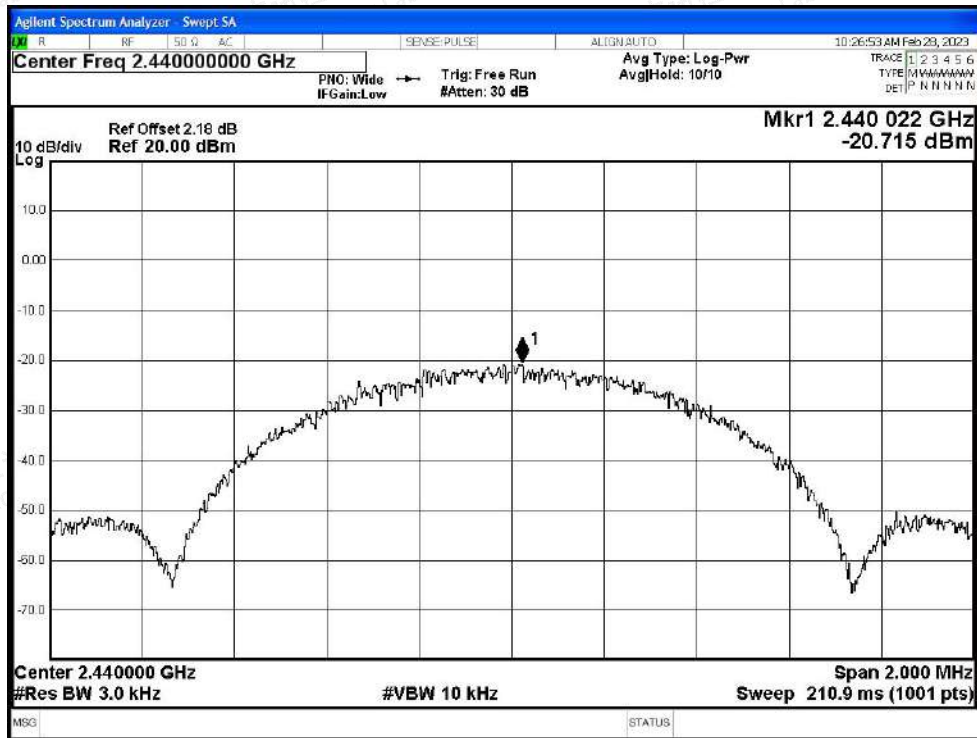


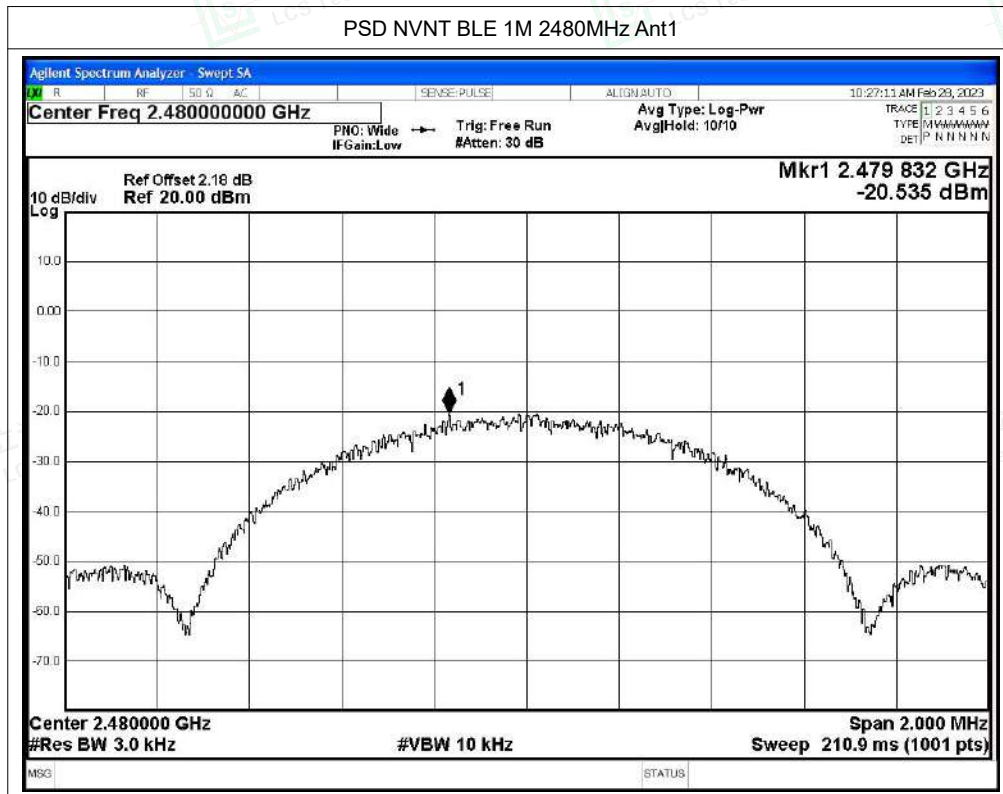
Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1







B.4 Band Edge

Left

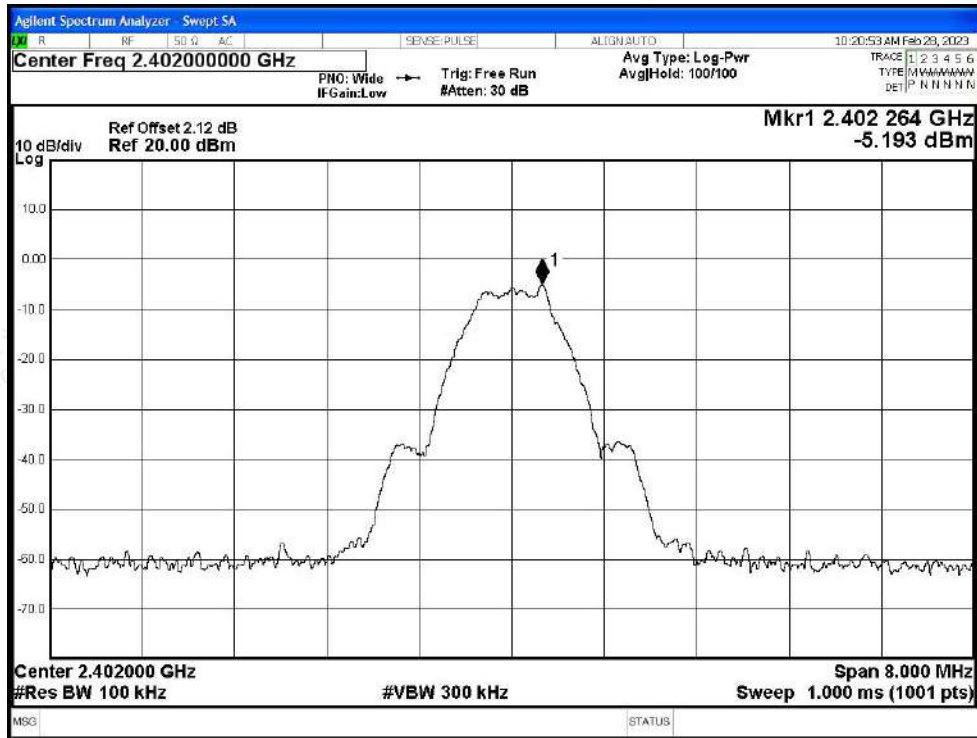
| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|---------|
| NVNT | BLE 1M | 2402 | Ant1 | -51.74 | -20 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | -53.04 | -20 | Pass |



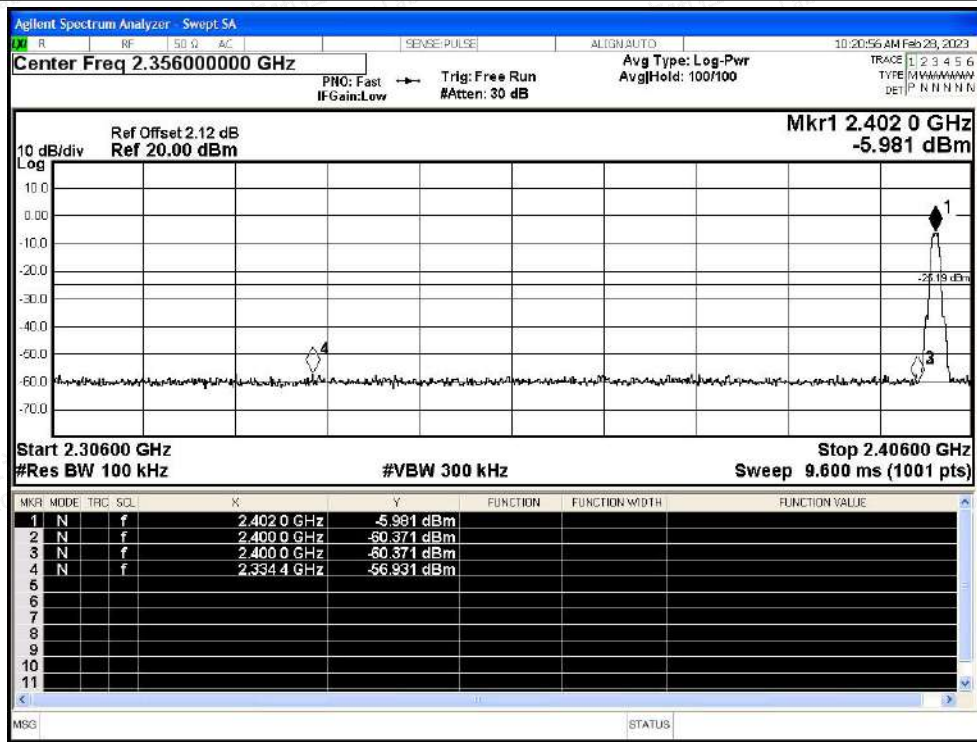


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



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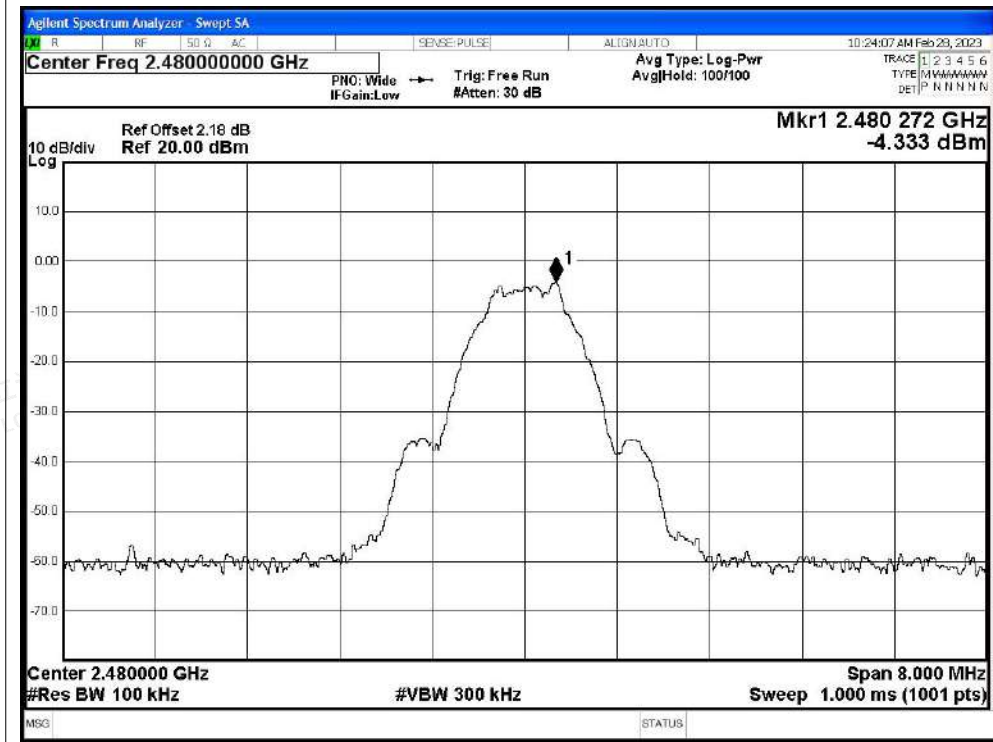
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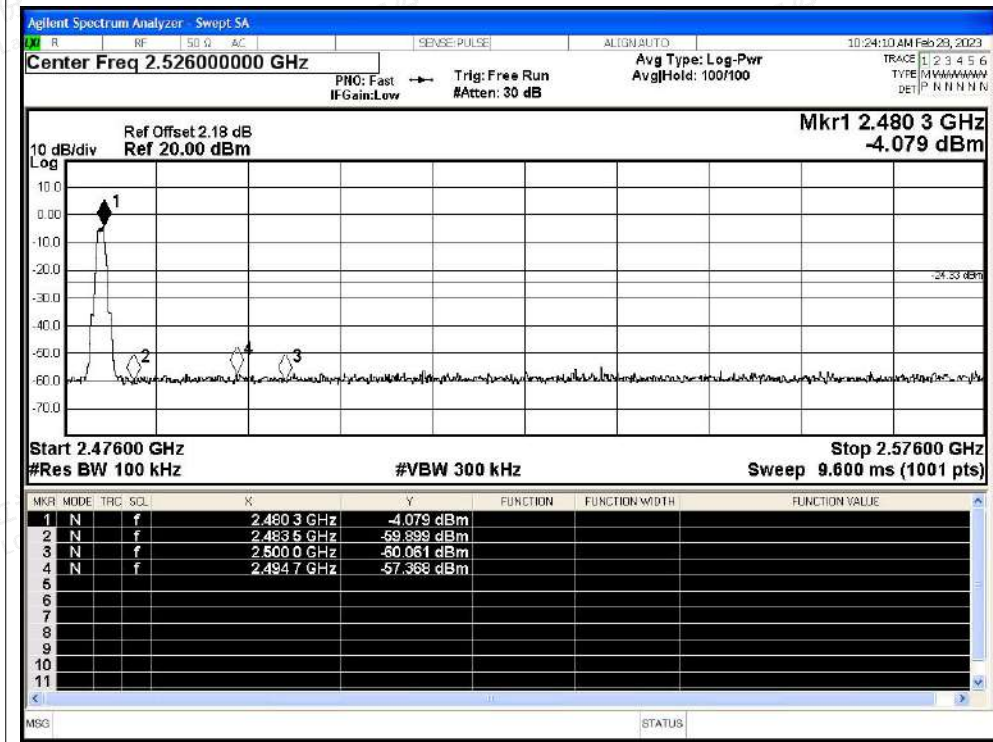
Scan code to check authenticity



Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Band Edge NVNT BLE 1M 2480MHz Ant1 Emission





Right

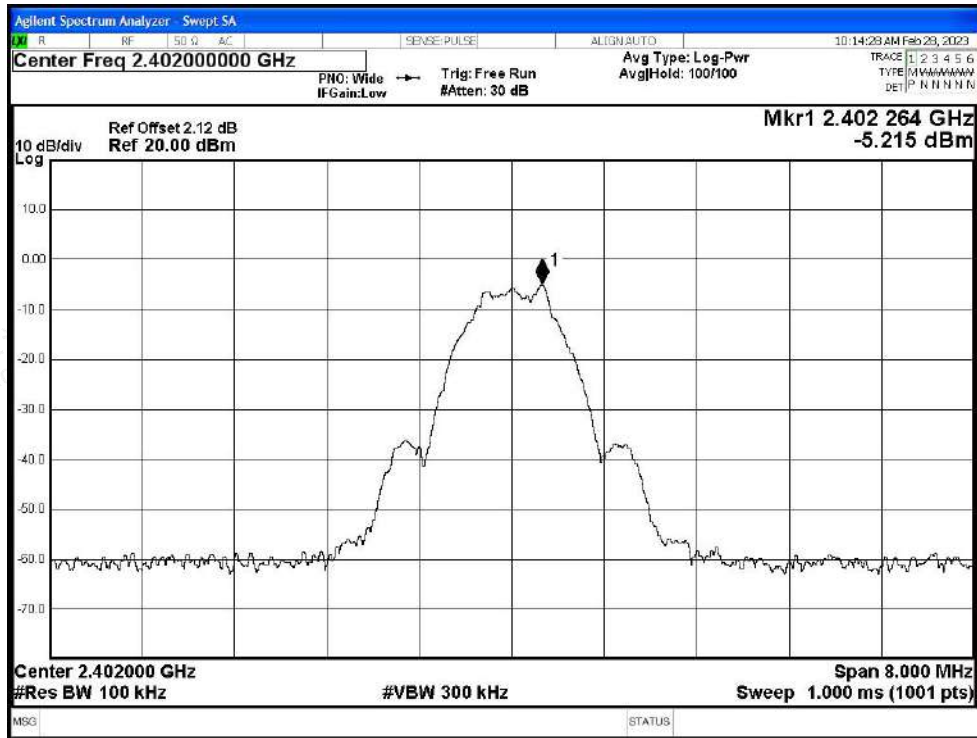
| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|---------|
| NVNT | BLE 1M | 2402 | Ant1 | -51.34 | -20 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | -51.67 | -20 | Pass |



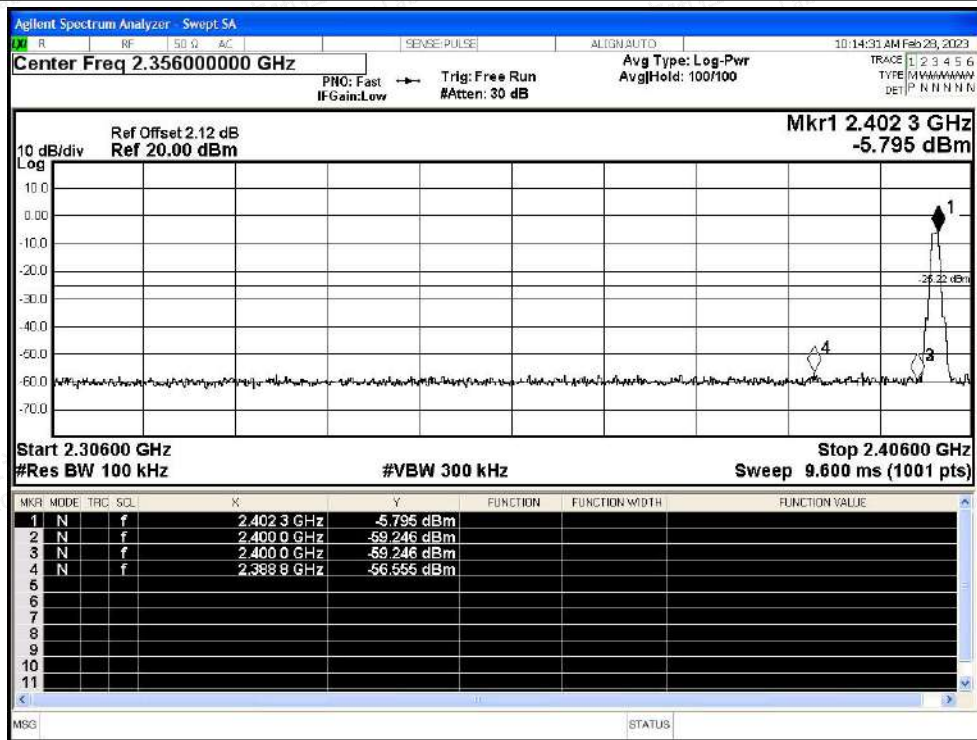


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



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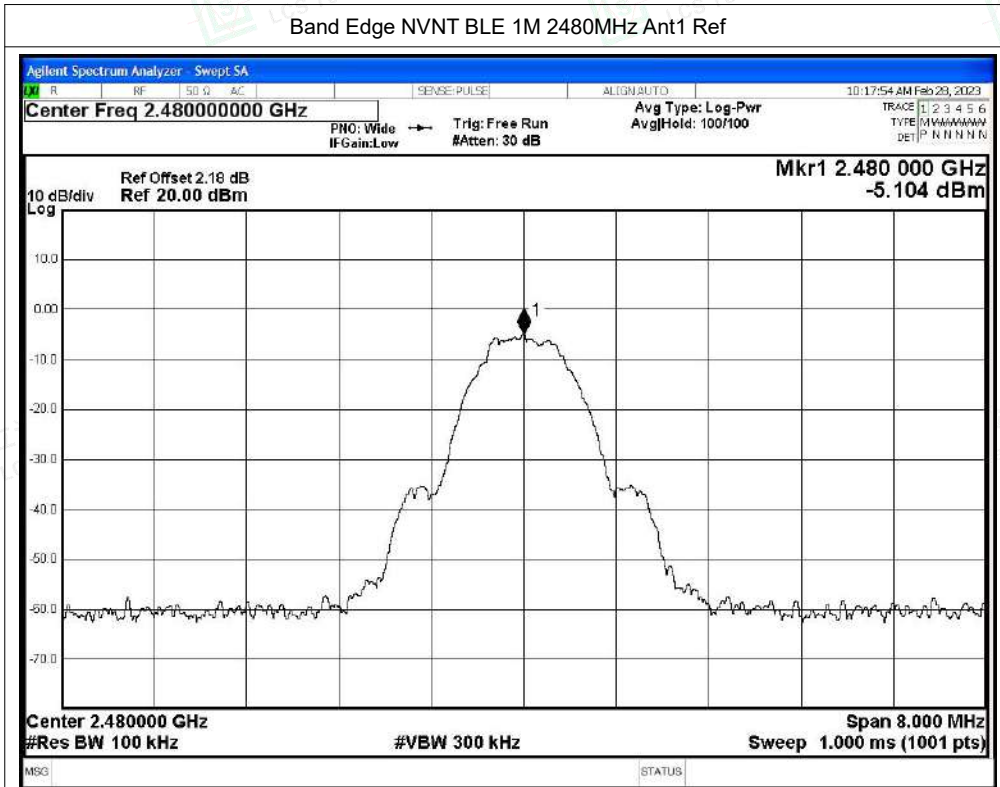
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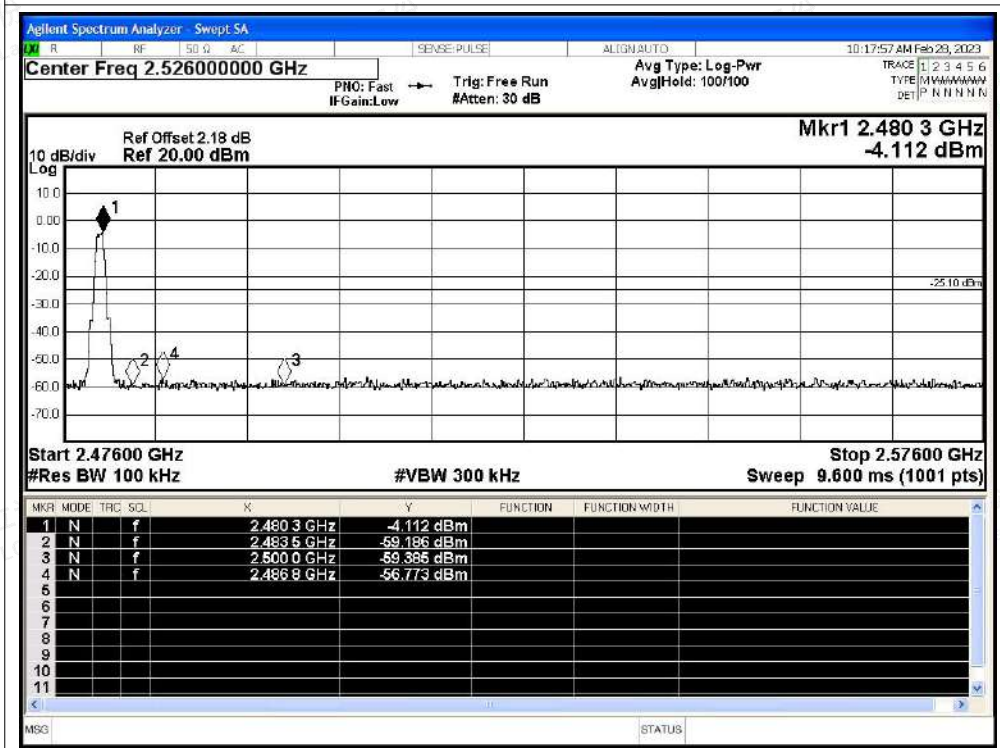
Scan code to check authenticity



Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Band Edge NVNT BLE 1M 2480MHz Ant1 Emission





B.5 Conducted RF Spurious Emission

Left

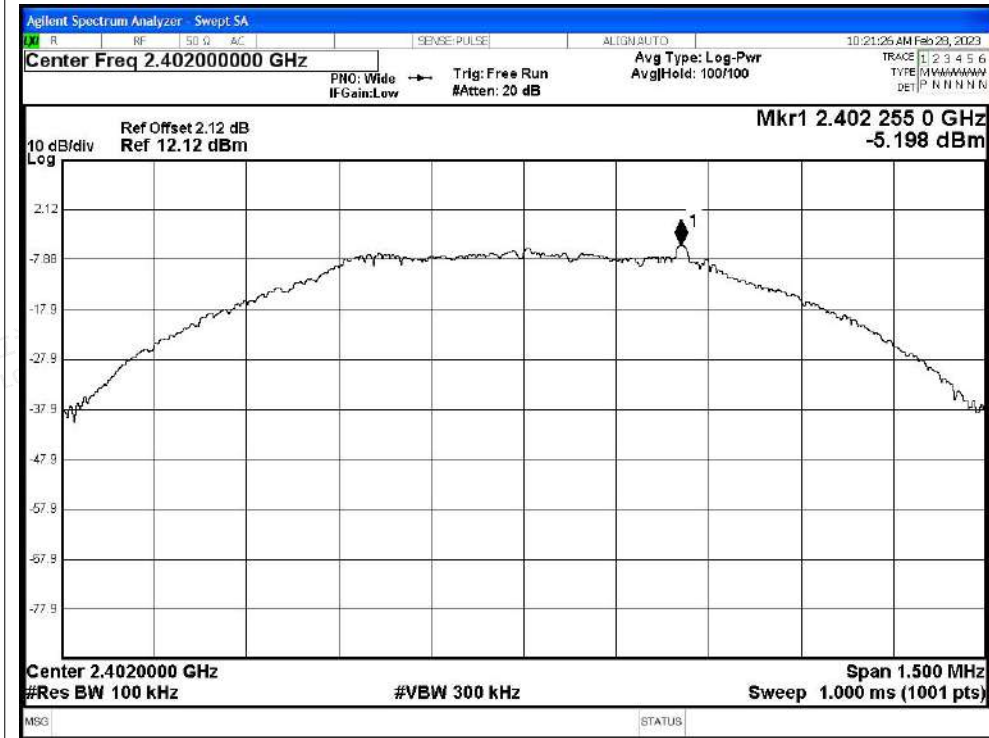
| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|---------|
| NVNT | BLE 1M | 2402 | Ant1 | -50.35 | -20 | Pass |
| NVNT | BLE 1M | 2440 | Ant1 | -50.46 | -20 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | -51.32 | -20 | Pass |



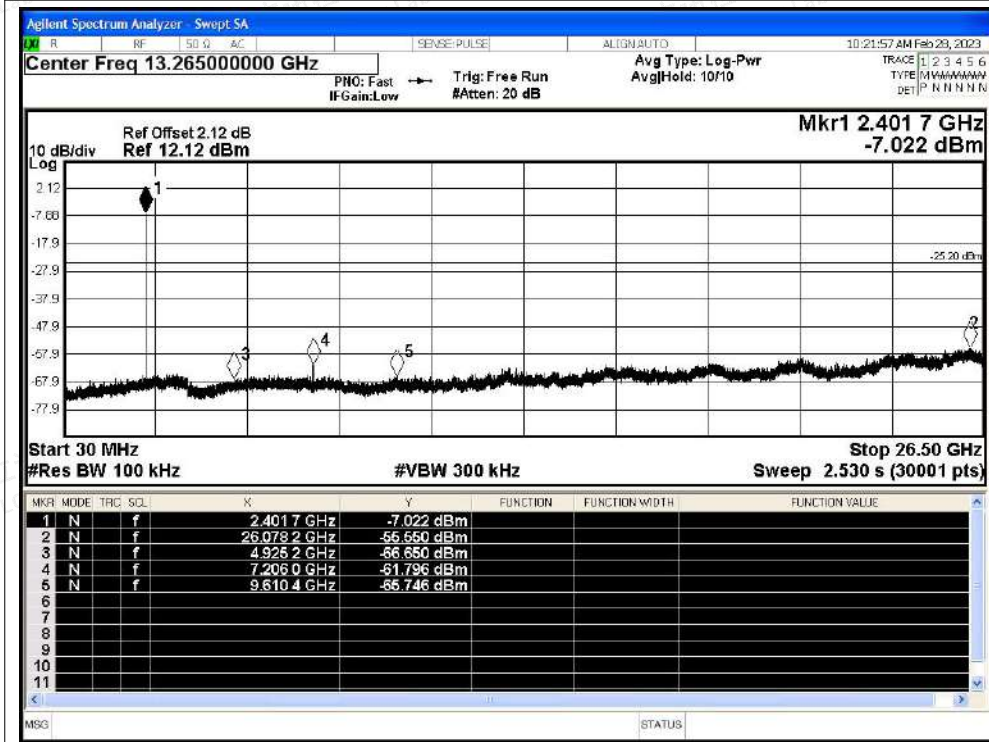


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

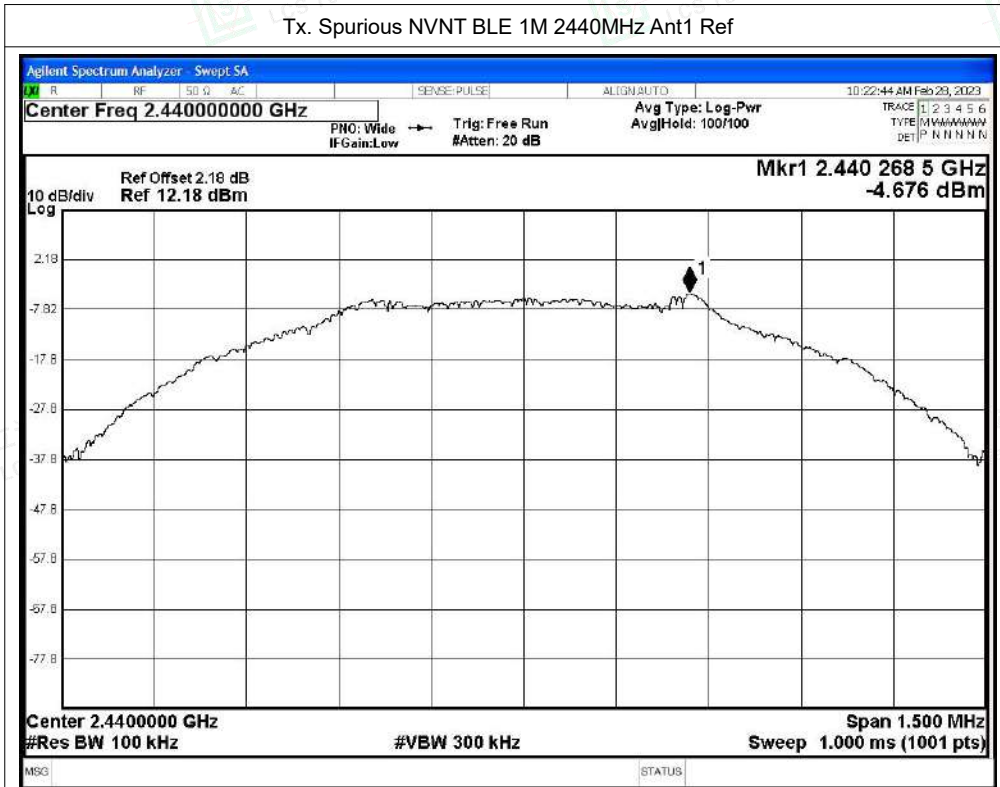
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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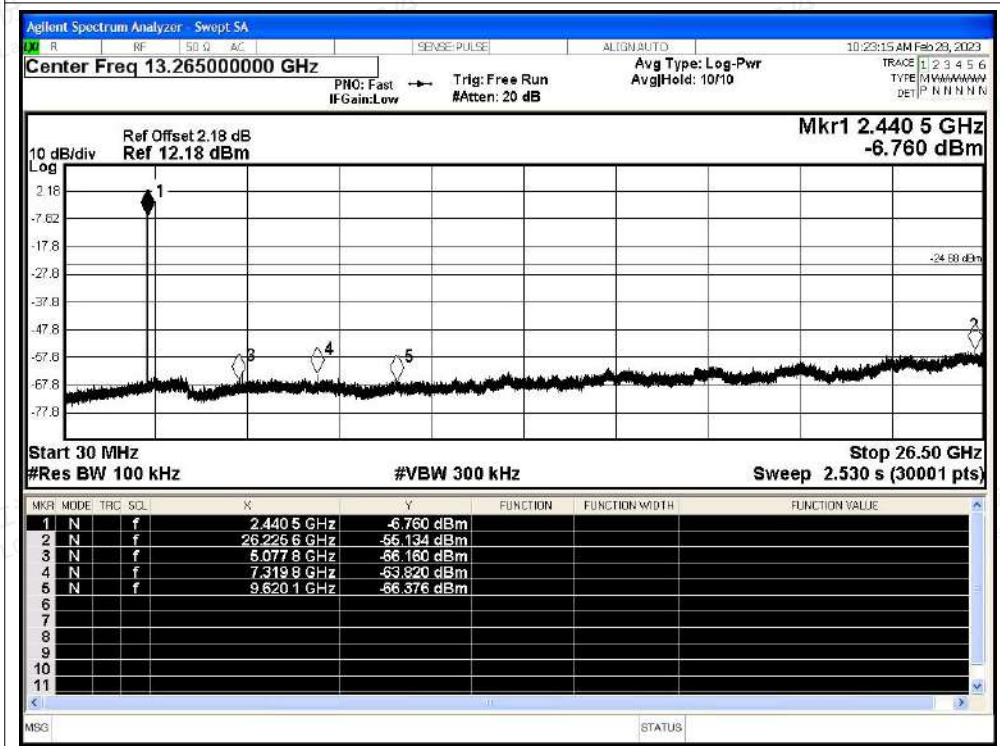
Scan code to check authenticity



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

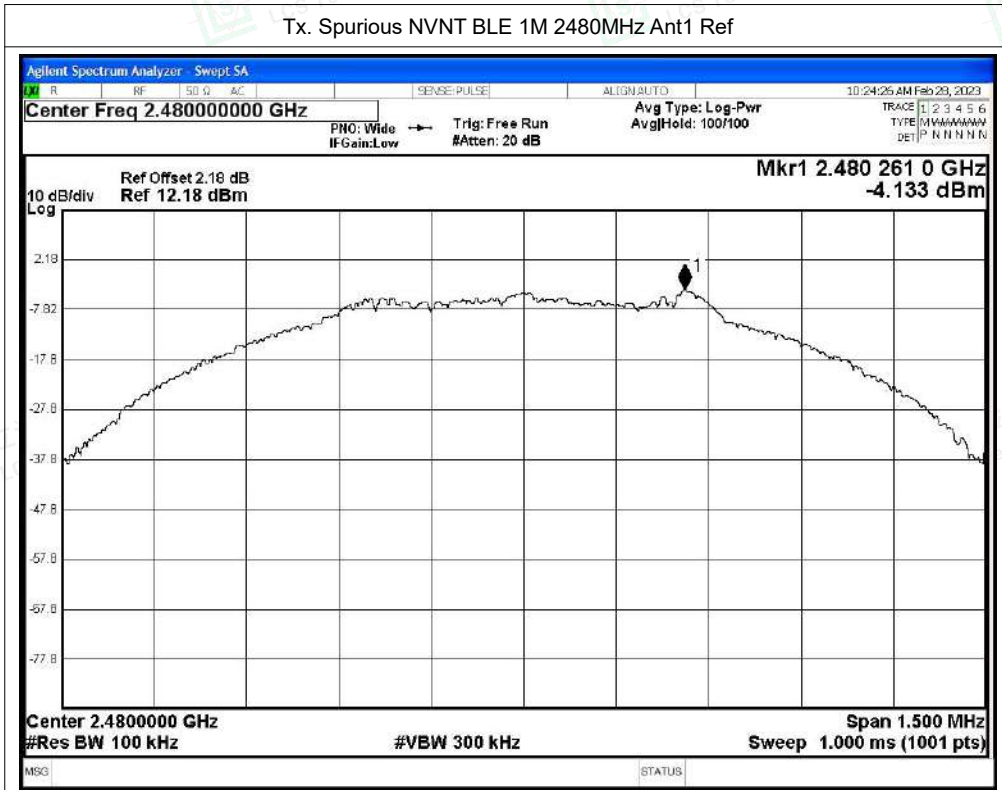
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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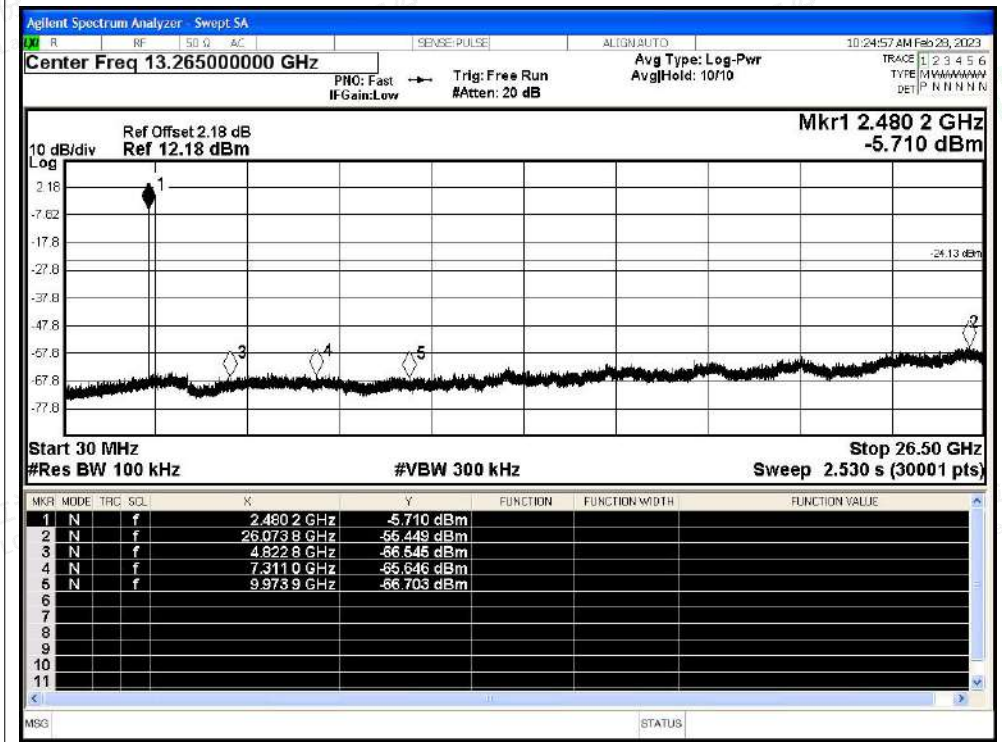
Scan code to check authenticity



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



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Right

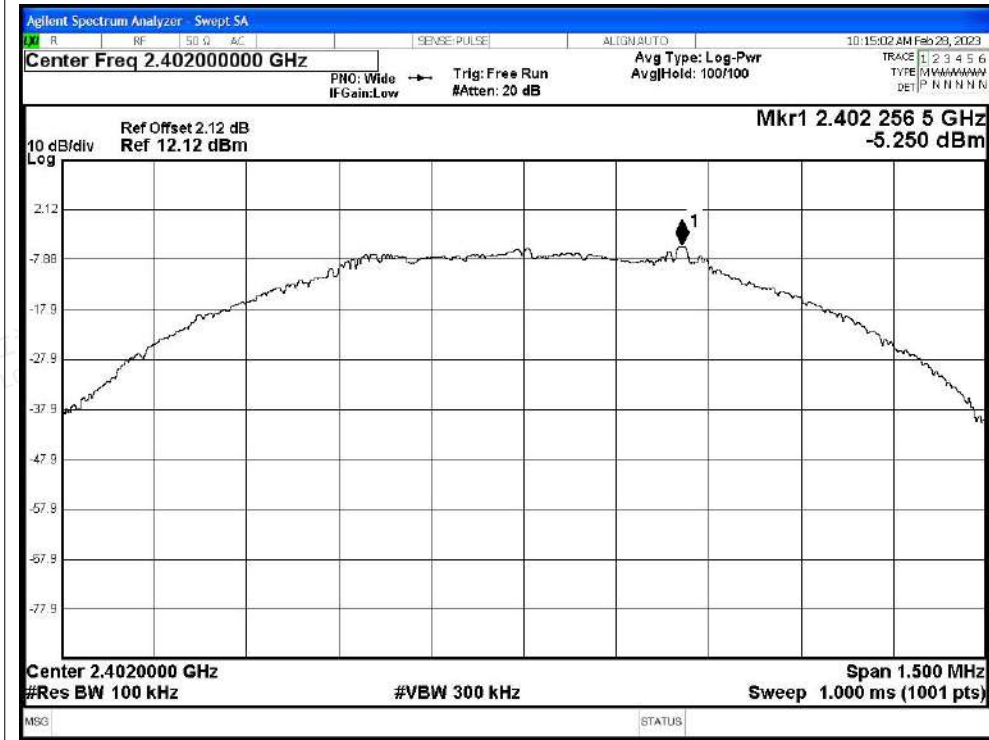
| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|---------|
| NVNT | BLE 1M | 2402 | Ant1 | -49.77 | -20 | Pass |
| NVNT | BLE 1M | 2440 | Ant1 | -51.1 | -20 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | -50.32 | -20 | Pass |



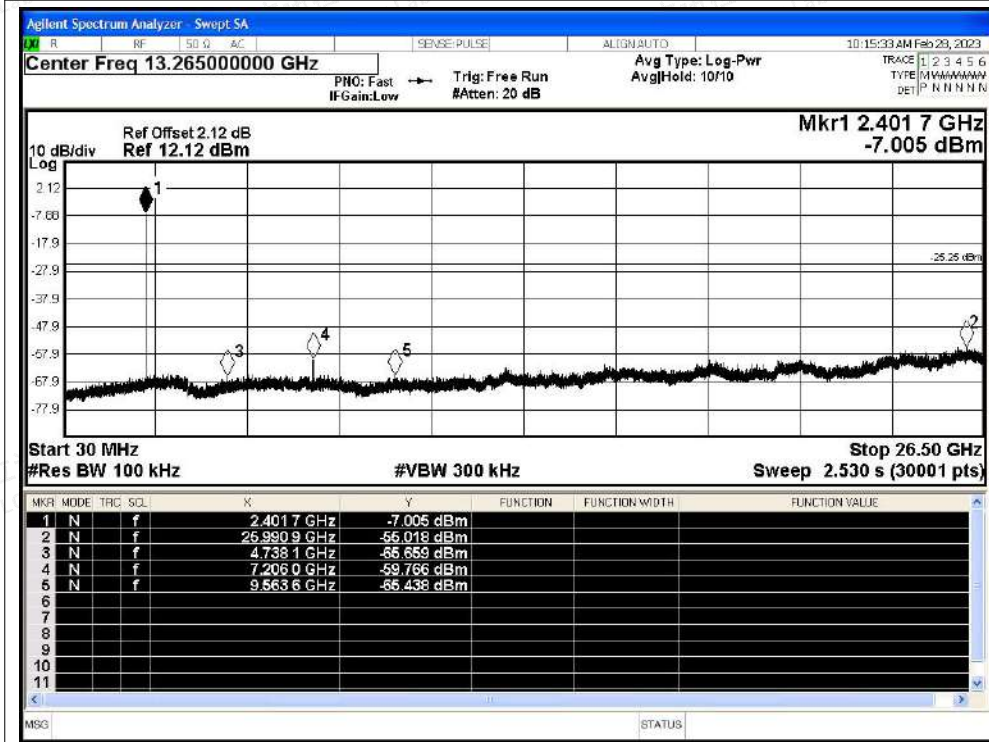


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



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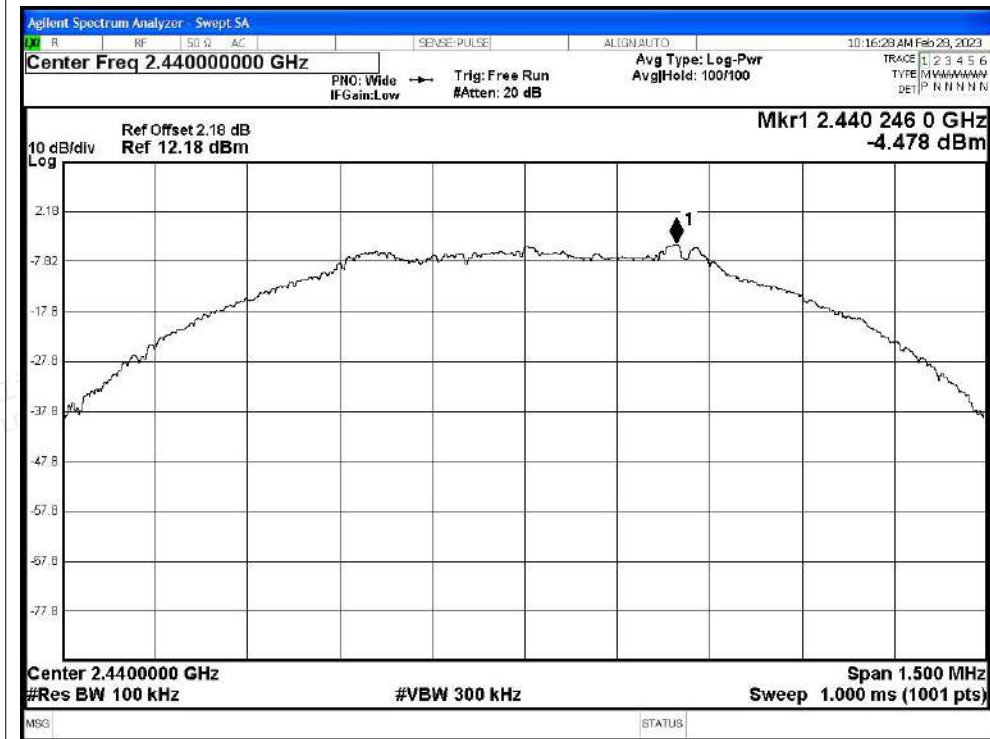
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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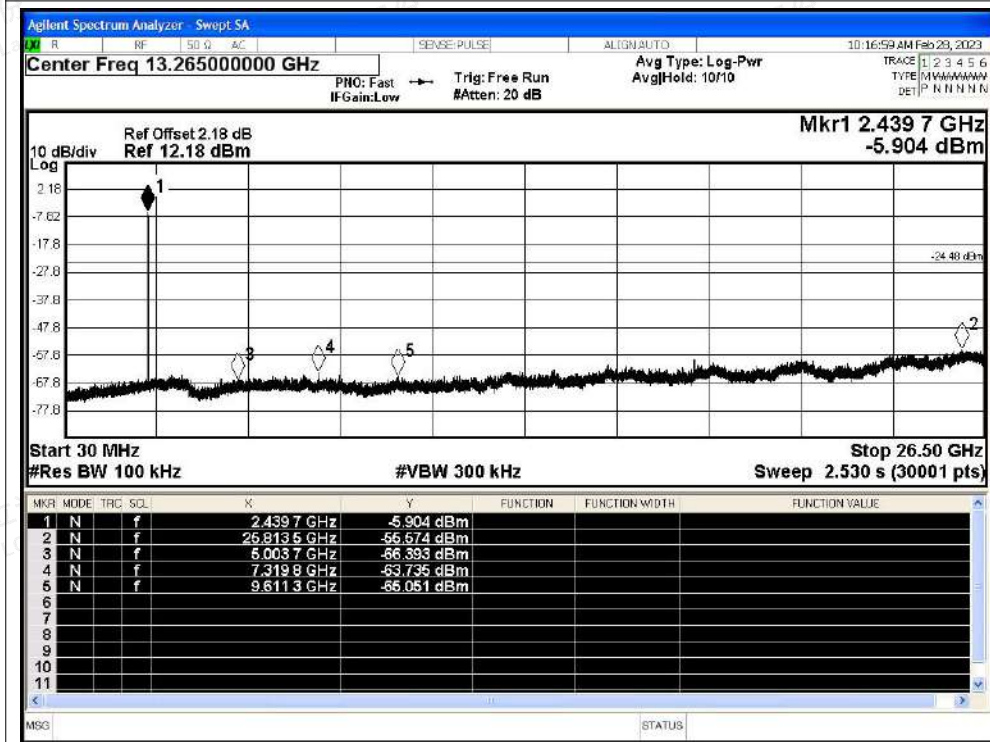
Scan code to check authenticity



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



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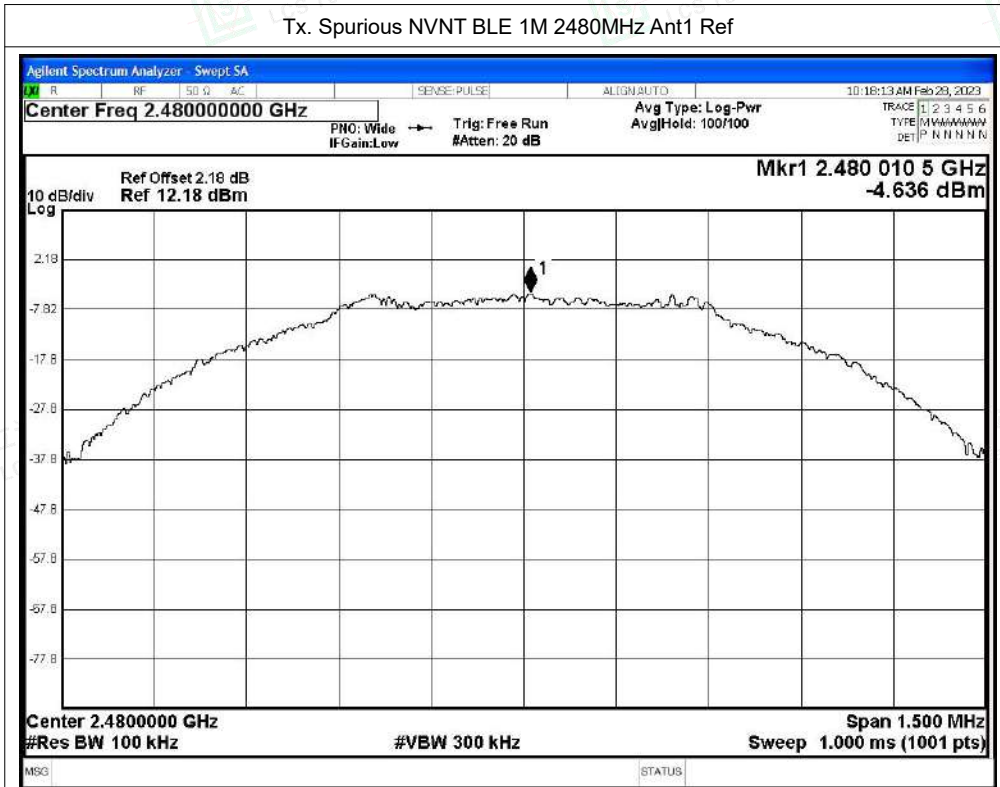
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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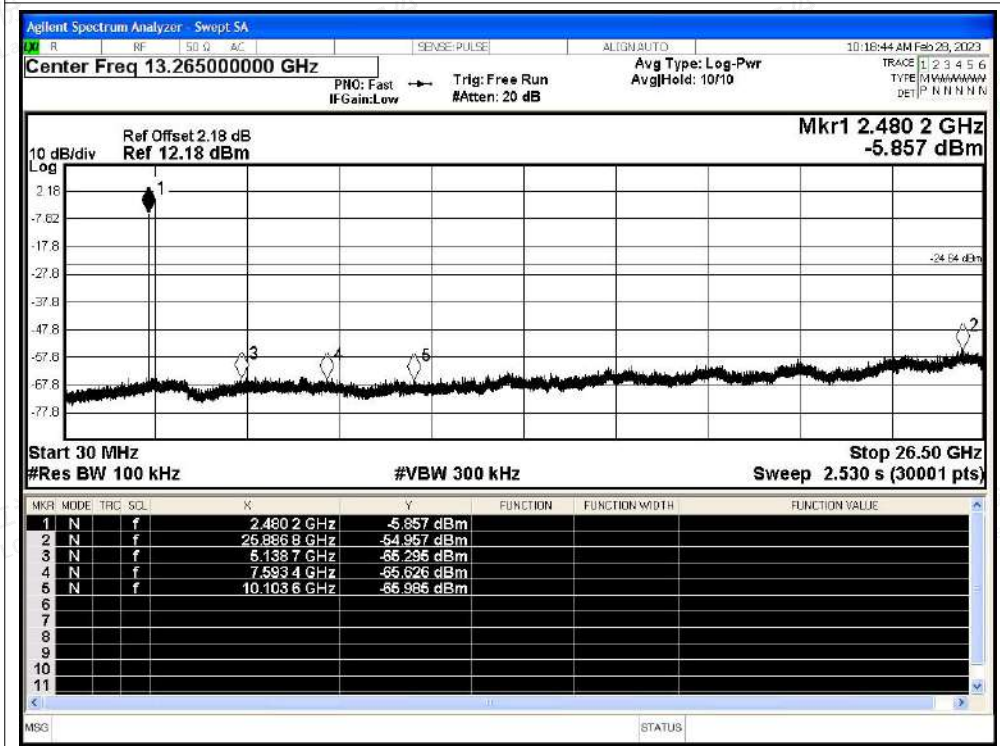
Scan code to check authenticity



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



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B.6 Duty Cycle

Left

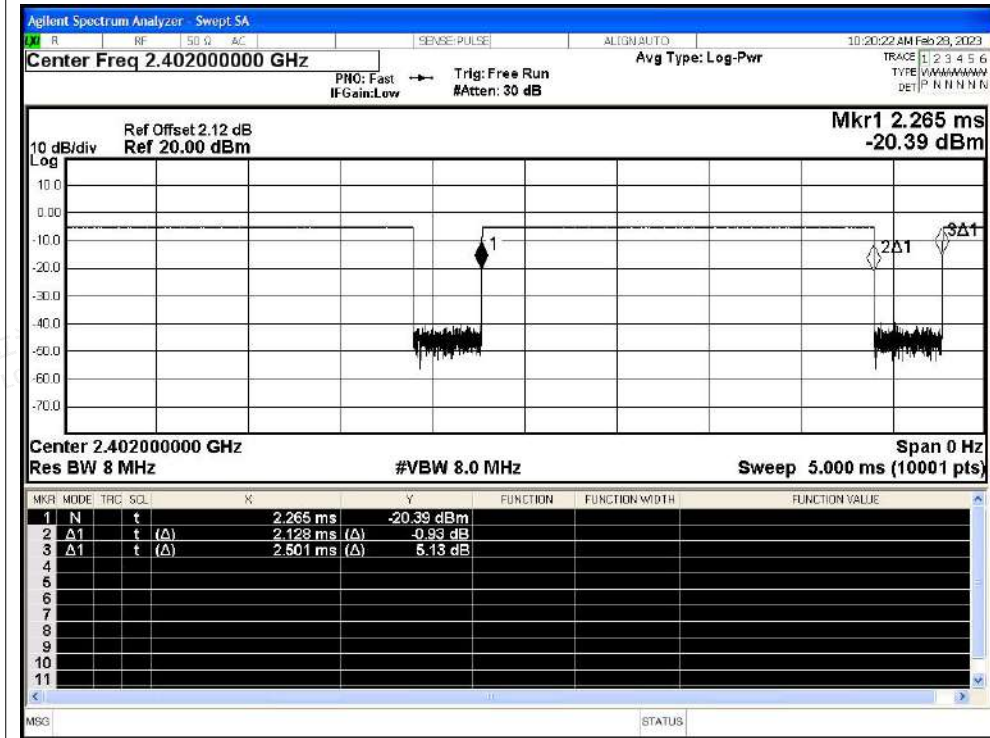
| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|--------|-----------------|---------|----------------|------------------------|-----------|
| NVNT | BLE 1M | 2402 | Ant1 | 85.1 | 0.7 | 0.47 |
| NVNT | BLE 1M | 2440 | Ant1 | 85.1 | 0.7 | 0.47 |
| NVNT | BLE 1M | 2480 | Ant1 | 85.1 | 0.7 | 0.47 |



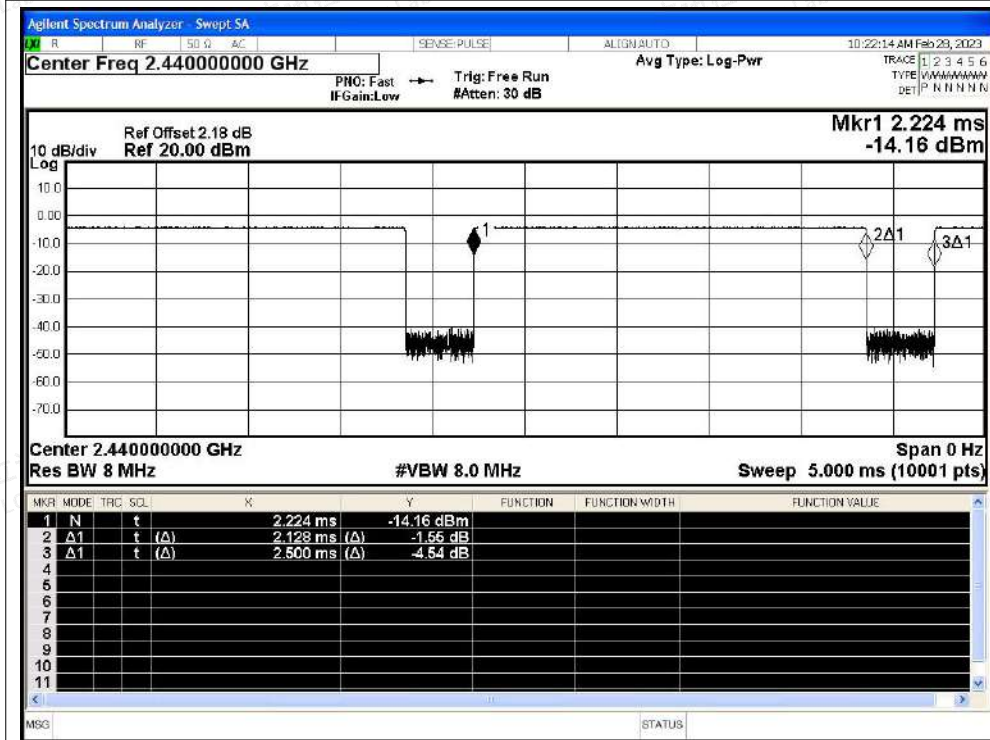


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1



Duty Cycle NVNT BLE 1M 2440MHz Ant1



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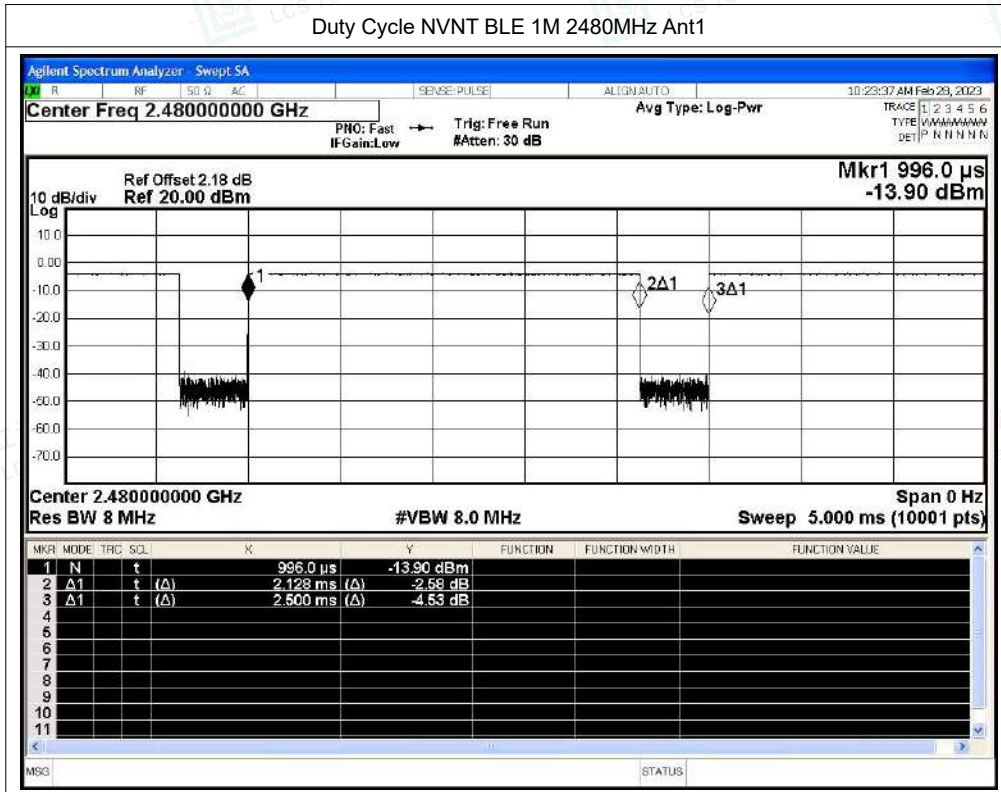
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Duty Cycle NVNT BLE 1M 2480MHz Ant1





Right

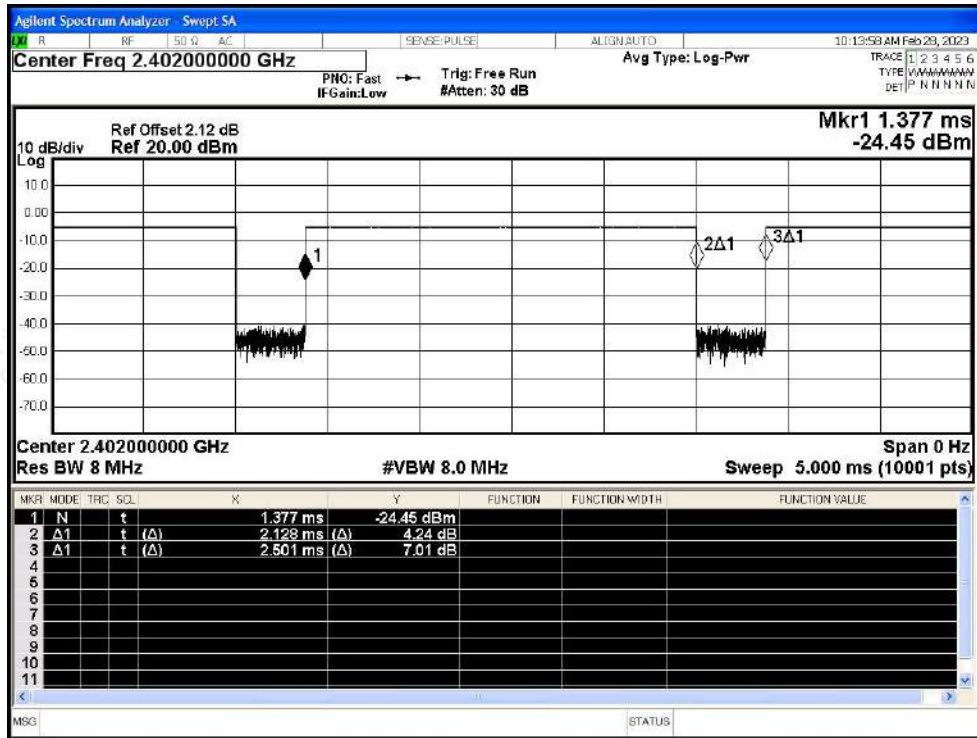
| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|--------|-----------------|---------|----------------|------------------------|-----------|
| NVNT | BLE 1M | 2402 | Ant1 | 85.1 | 0.7 | 0.47 |
| NVNT | BLE 1M | 2440 | Ant1 | 85.1 | 0.7 | 0.47 |
| NVNT | BLE 1M | 2480 | Ant1 | 85.1 | 0.7 | 0.47 |



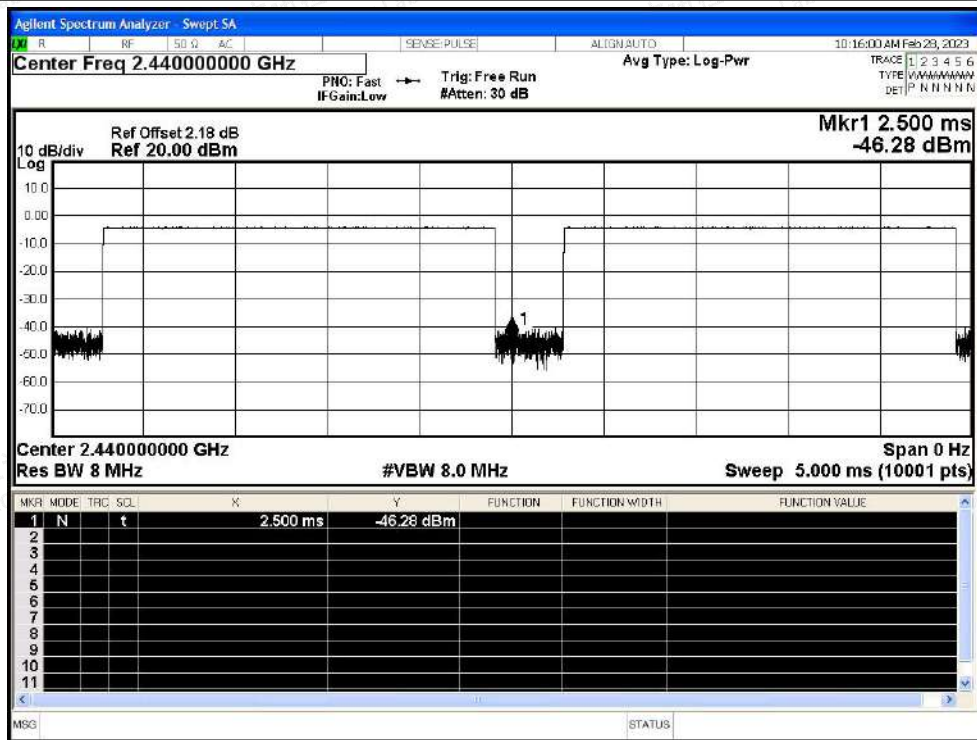


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1



Duty Cycle NVNT BLE 1M 2440MHz Ant1

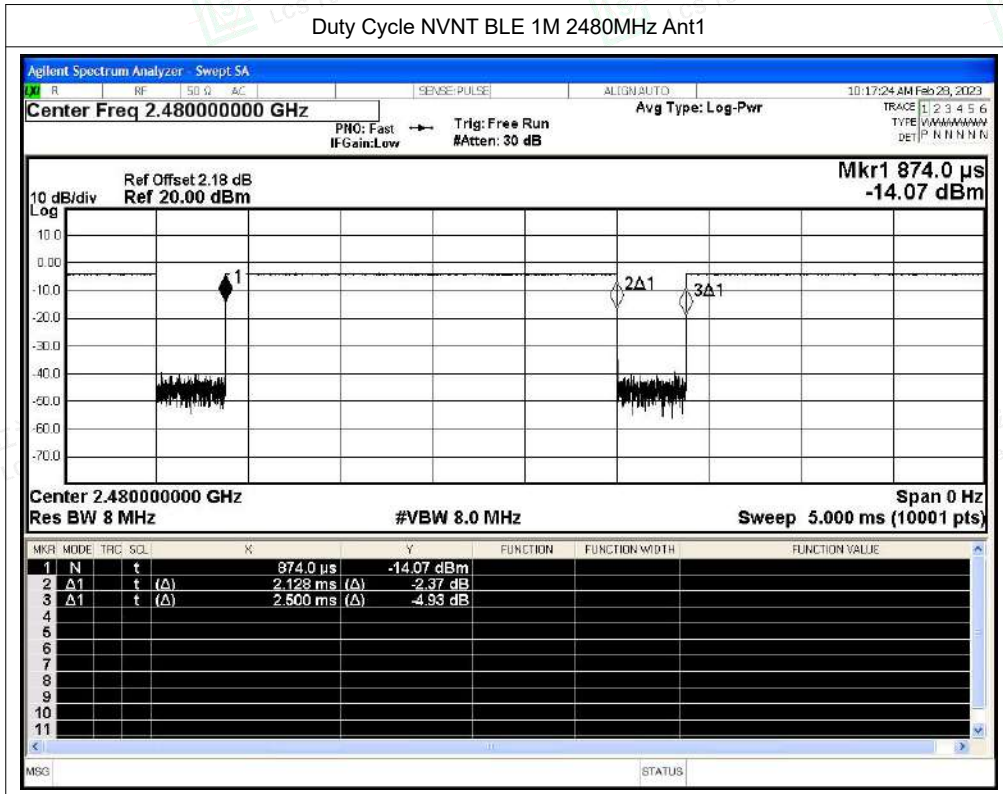


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B.7 Restrict Band

Left

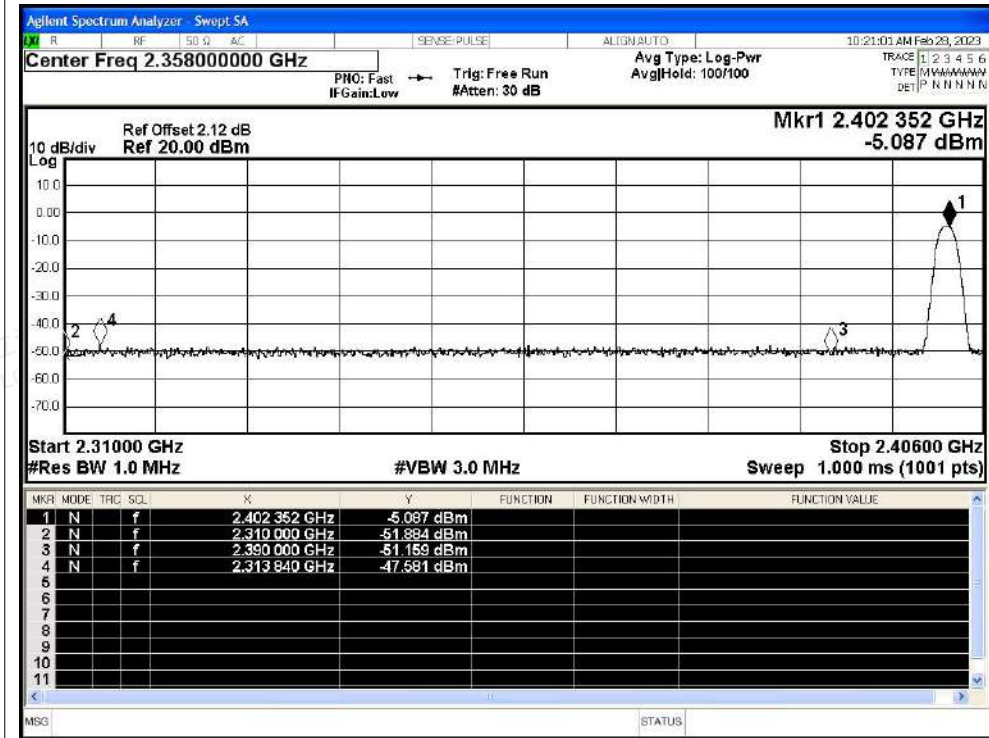
| Condition | Mode | Frequency (MHz) | Antenna | Spur Freq (MHz) | Power (dBm) | Gain (dBi) | E (dBuV/m) | Detector | Limit (dBuV/m) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|------------|------------|----------|----------------|---------|
| NVNT | BLE 1M | 2402 | Ant1 | 2310 | -51.88 | 2 | 45.38 | Peak | 74 | Pass |
| NVNT | BLE 1M | 2402 | Ant1 | 2310 | -60.04 | 2 | 37.22 | Average | 54 | Pass |
| NVNT | BLE 1M | 2402 | Ant1 | 2313.84 | -47.58 | 2 | 49.68 | Peak | 74 | Pass |
| NVNT | BLE 1M | 2402 | Ant1 | 2386.512 | -59.57 | 2 | 37.69 | Average | 54 | Pass |
| NVNT | BLE 1M | 2402 | Ant1 | 2390 | -51.16 | 2 | 46.1 | Peak | 74 | Pass |
| NVNT | BLE 1M | 2402 | Ant1 | 2390 | -59.76 | 2 | 37.5 | Average | 54 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | 2483.5 | -50.67 | 2 | 46.59 | Peak | 74 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | 2483.5 | -59.52 | 2 | 37.74 | Average | 54 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | 2492.92 | -47.12 | 2 | 50.14 | Peak | 74 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | 2499.736 | -59.19 | 2 | 38.07 | Average | 54 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | 2500 | -49.84 | 2 | 47.42 | Peak | 74 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | 2500 | -59.41 | 2 | 37.85 | Average | 54 | Pass |



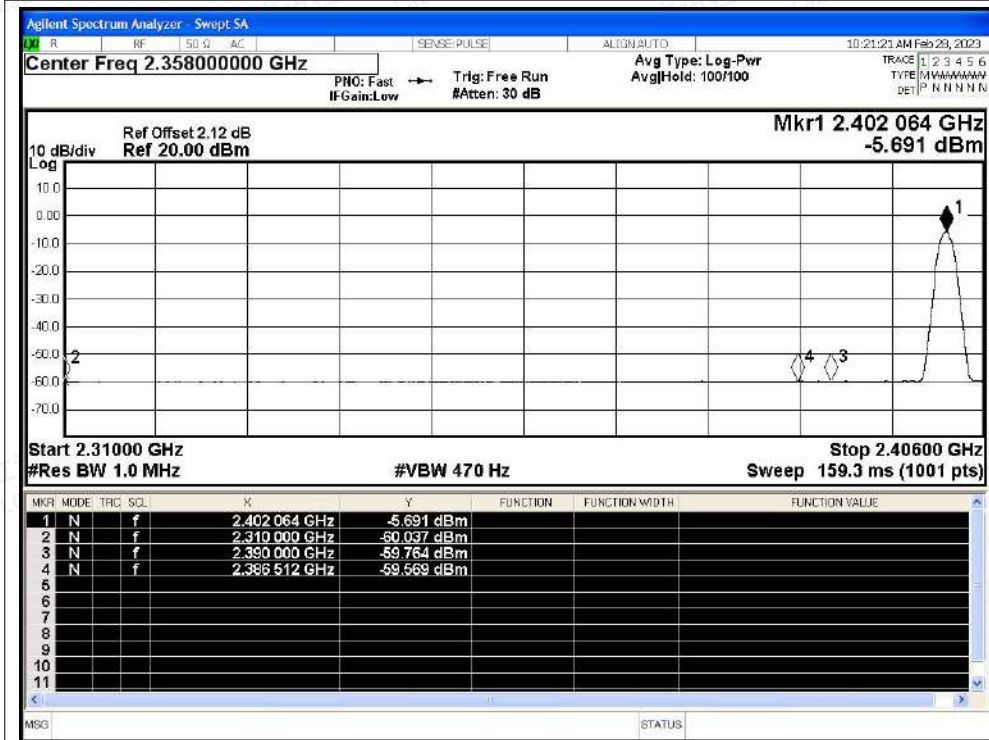


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

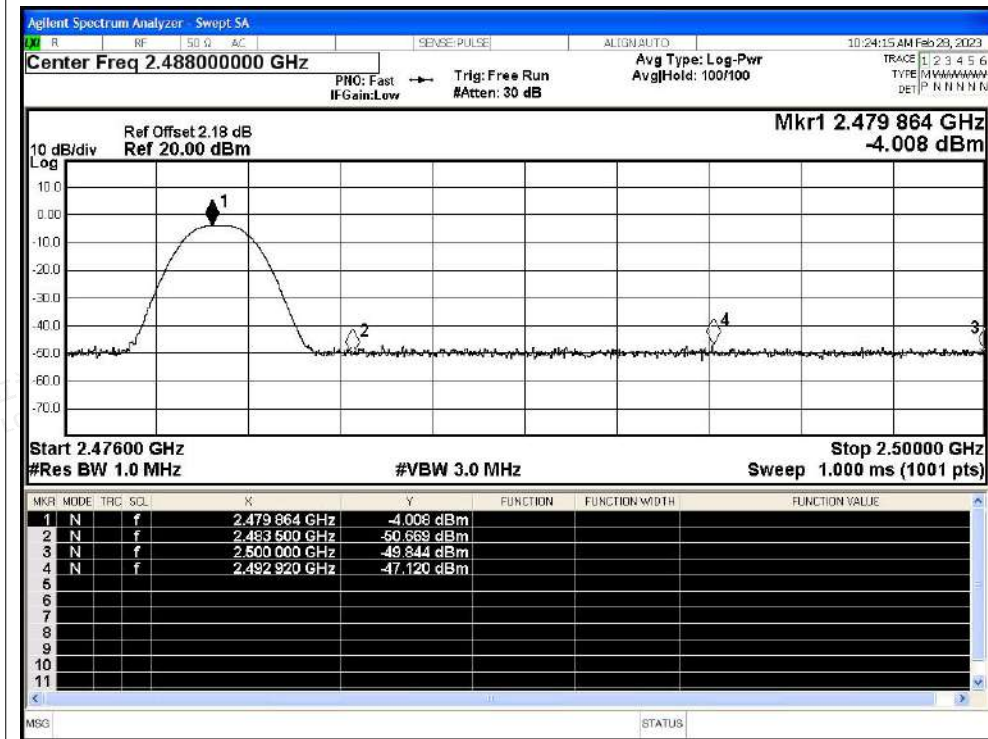
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

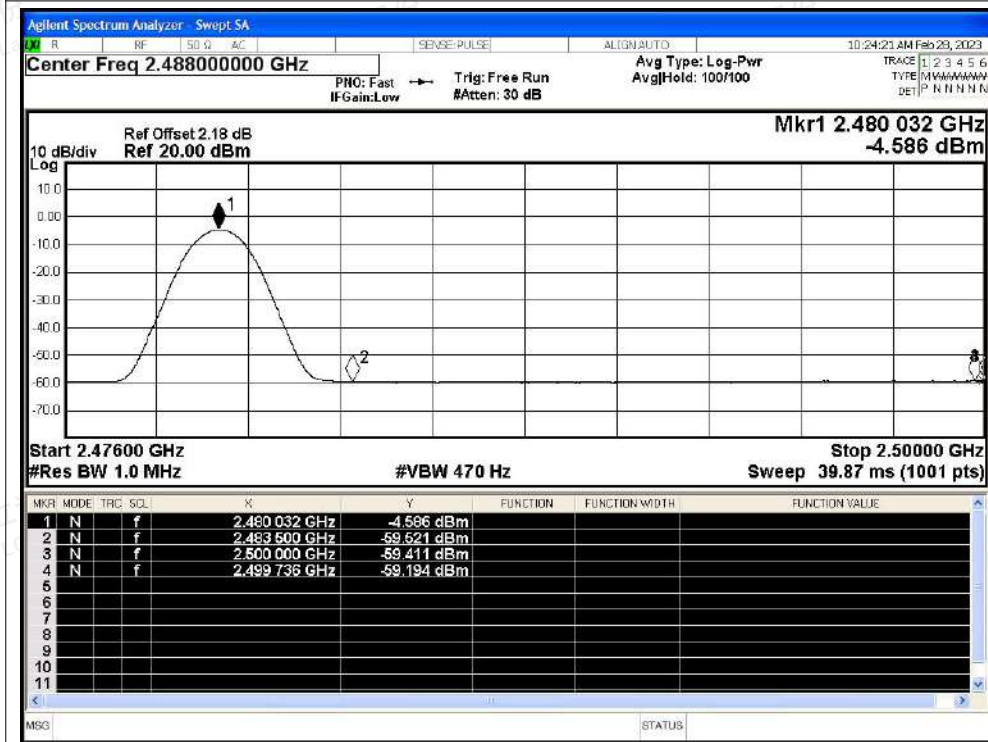
Scan code to check authenticity



Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2480MHz Ant1 Average



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Right

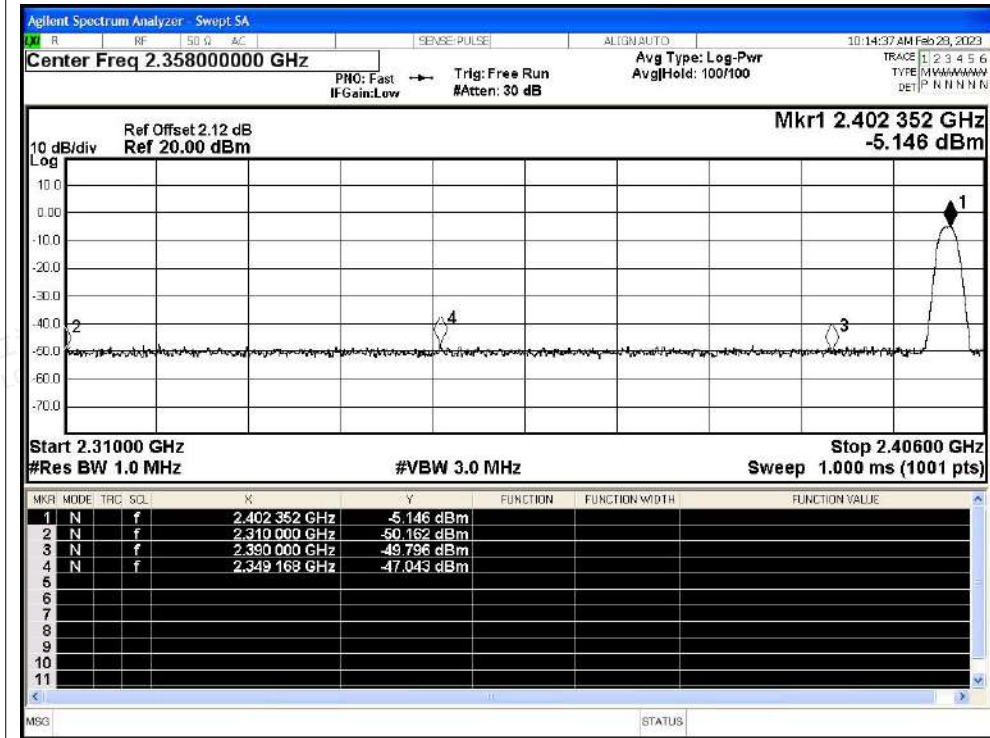
| Condition | Mode | Frequency (MHz) | Antenna | Spur Freq (MHz) | Power (dBm) | Gain (dBi) | E (dBuV/m) | Detector | Limit (dBuV/m) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|------------|------------|----------|----------------|---------|
| NVNT | BLE 1M | 2402 | Ant1 | 2310 | -50.16 | 2 | 47.1 | Peak | 74 | Pass |
| NVNT | BLE 1M | 2402 | Ant1 | 2310 | -60.08 | 2 | 37.18 | Average | 54 | Pass |
| NVNT | BLE 1M | 2402 | Ant1 | 2349.168 | -47.04 | 2 | 50.22 | Peak | 74 | Pass |
| NVNT | BLE 1M | 2402 | Ant1 | 2385.648 | -59.62 | 2 | 37.64 | Average | 54 | Pass |
| NVNT | BLE 1M | 2402 | Ant1 | 2390 | -49.8 | 2 | 47.46 | Peak | 74 | Pass |
| NVNT | BLE 1M | 2402 | Ant1 | 2390 | -59.75 | 2 | 37.51 | Average | 54 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | 2483.5 | -50.22 | 2 | 47.04 | Peak | 74 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | 2483.5 | -59.47 | 2 | 37.79 | Average | 54 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | 2484.808 | -47.03 | 2 | 50.23 | Peak | 74 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | 2499.88 | -59.18 | 2 | 38.08 | Average | 54 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | 2500 | -49.75 | 2 | 47.51 | Peak | 74 | Pass |
| NVNT | BLE 1M | 2480 | Ant1 | 2500 | -59.27 | 2 | 37.99 | Average | 54 | Pass |



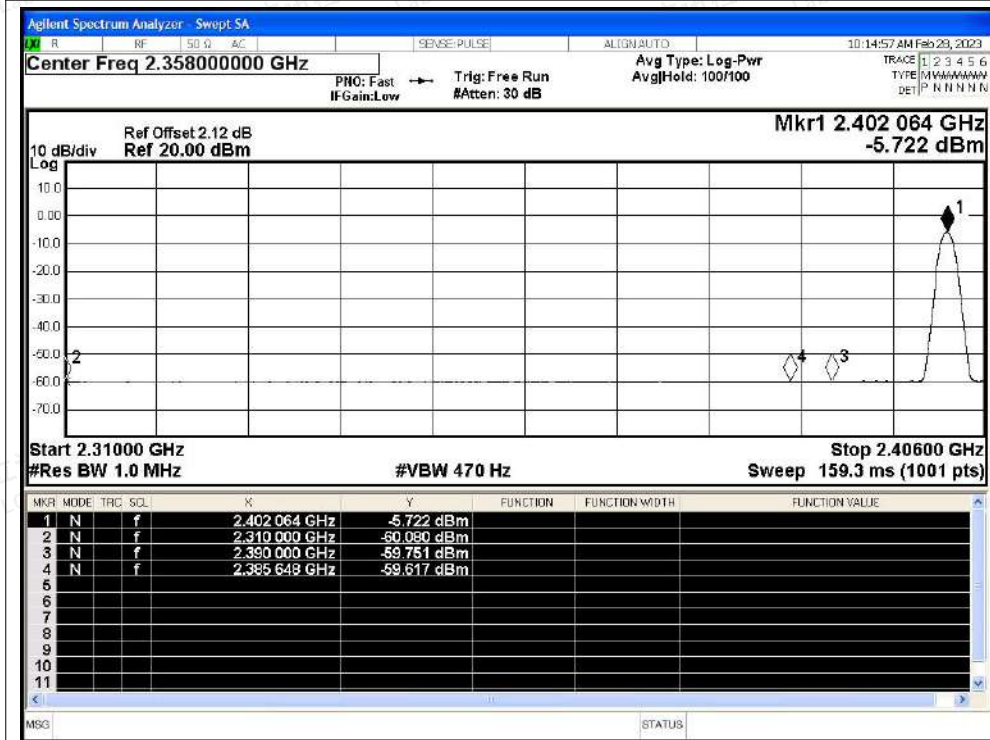


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

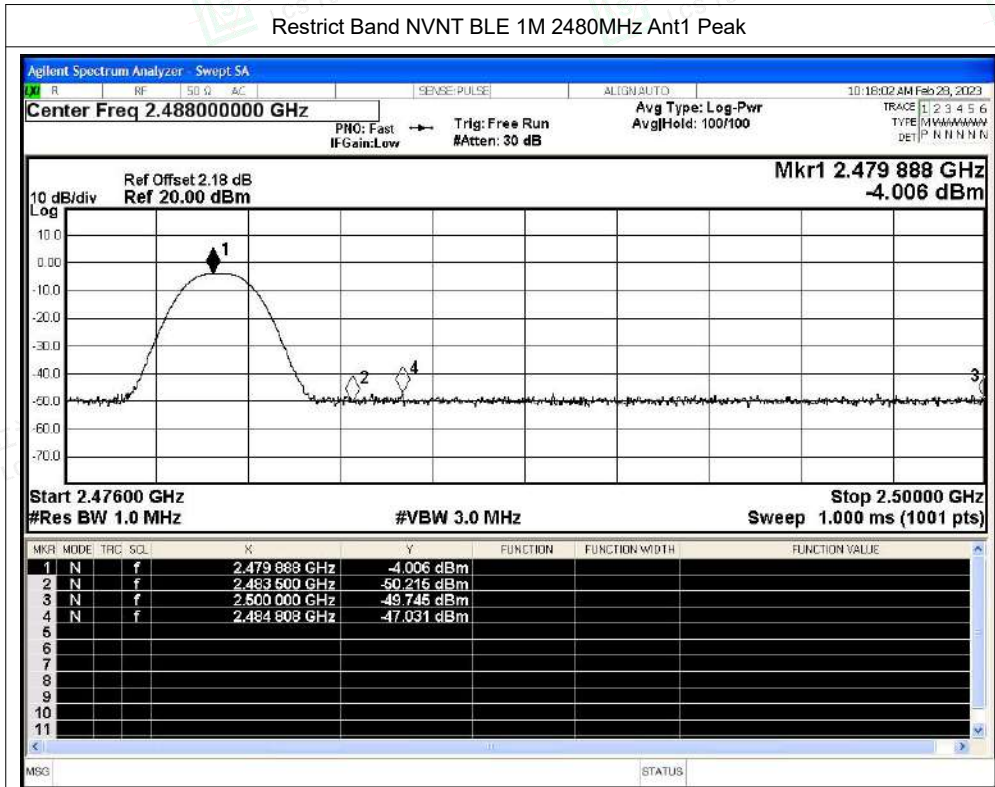
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

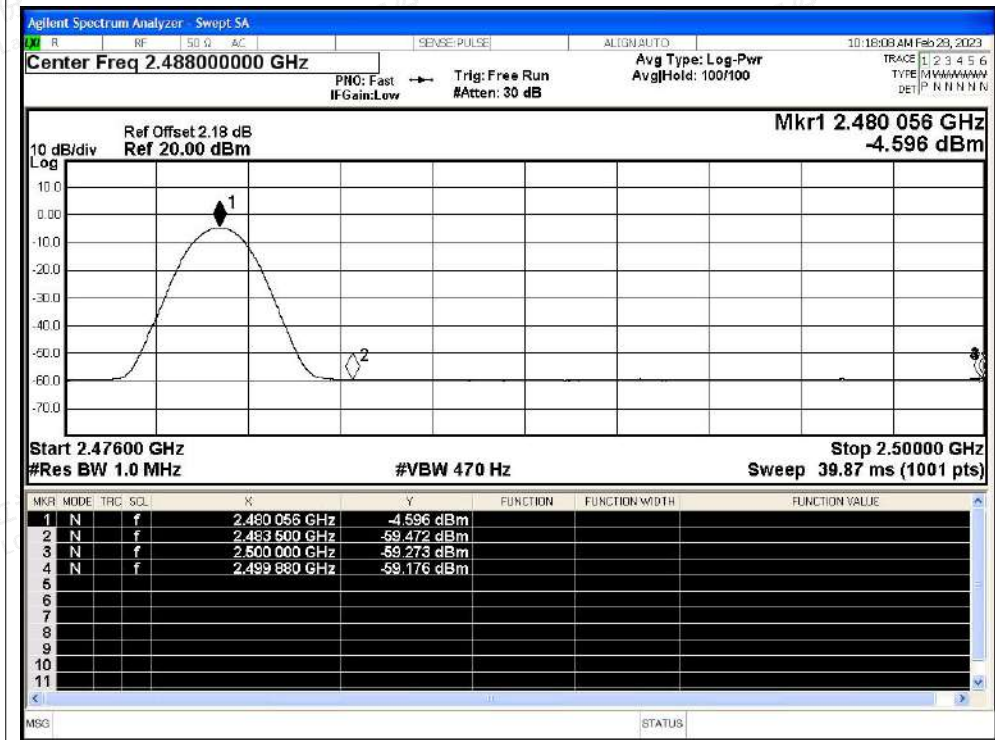
Scan code to check authenticity



Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2480MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

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