

Test Data\

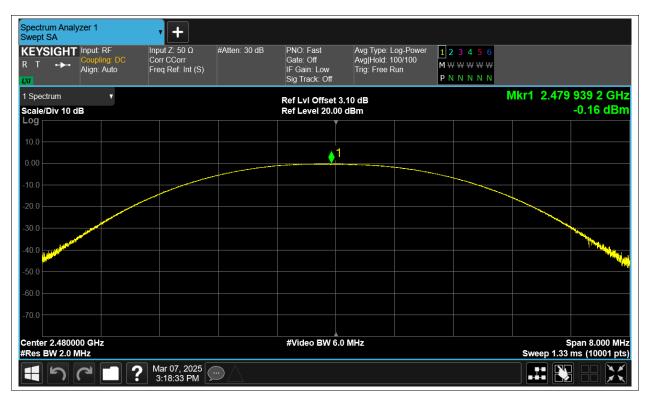
Maximum Conducted Output Power

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-------------|---------|
| NVNT | BLE | 2402 | Ant1 | -1.145 | 30 | Pass |
| NVNT | BLE | 2442 | Ant1 | -1.647 | 30 | Pass |
| NVNT | BLE | 2480 | Ant1 | -0.163 | 30 | Pass |



| | | | Test Grap | ohs | | | |
|--|--|------------------------|---|--|---|------------|--|
| | | Power | NVNT BLE 2 | 402MHz Ant1 | | | |
| Spectrum Analyzer 1 Swept SA | • + | | | | | | |
| KEYSIGHT Input: RF R T +++ Coupling DC Align: Auto | Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S) | #Atten: 30 dB | PNO: Fast Gate: Off IF Gain: Low Sig Track: Off | Avg Type: Log-Power Avg Hold: 100/100 Trig: Free Run | 1 2 3 4 5 6 M₩₩₩₩₩₩ P N N N N N | | |
| 1 Spectrum | | | Ref LvI Offset 3 | | | Mkr1 2.401 | 860 0 GHz -1.15 dBm |
| Scale/Div 10 dB | | | Ref Level 20.00 | abm | | | -1.15 0.611 |
| 10.0 | | | | | | | |
| 0.00 | | | <u> </u> | | | | |
| -10.0 | | | | | | | |
| -20.0 | | | | | | | |
| -30.0 | | | | | | | and a second |
| -40.0 | | | | | | | |
| -50.0 | | | | | | | |
| -60.0 | | | | | | | |
| -70.0 | | | | | | | |
| Center 2.402000 GHz #Res BW 2.0 MHz | | | #Video BW 6.0 | 0 MHz | | Sweep 1.33 | Span 8.000 MHz ms (10001 pts) |
| 1 500 | Mar 07, 2025 3:15:09 PM | | | | | | |
| | | | | | | | |
| | | Power | NVNT BLE 2 | 442MHz Ant1 | | | |
| Spectrum Analyzer 1 | | Power | NVNT BLE 2 | 442MHz Ant1 | | | |
| Swept SA KEYSIGHT Input: RF | τ + Input Z: 50 Ω | Power #Atten: 30 dB | PNO: Fast | Avg Type: Log-Power | 123456 | | |
| Spectrum Analyzer 1 Swept SA KEYSIGHT Input: RF R T \longrightarrow Coupling: DC Align: Auto | , + | | | | 123456 M\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | | |
| Swept SA KEYSIGHT Input: RF R T Coupling: DC Align: Auto 1 Spectrum Scale/Div 10 dB | Input Z: 50 Ω Corr CCorr | | PNO: Fast Gate: Off IF Gain: Low | Avg Type: Log-Power Avg Hold: 100/100 Trig: Free Run 3.08 dB | M ₩ ₩ ₩ ₩ ₩ | Mkr1 2.441 | |
| Swept SA KEYSIGHT Input: RF R T \longrightarrow Coupling: DC Align: Auto VV 1 Spectrum Scale/Div 10 dB Log | Input Z: 50 Ω Corr CCorr | | PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3 | Avg Type: Log-Power Avg Hold: 100/100 Trig: Free Run 3.08 dB | M ₩ ₩ ₩ ₩ ₩ | | 912 0 GHz |
| Swept SA KEYSIGHT Input: RF R T Coupling: DC Align: Auto 1 Spectrum Scale/Div 10 dB | Input Z: 50 Ω Corr CCorr | | PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3 | Avg Type: Log-Power Avg Hold: 100/100 Trig: Free Run 3.08 dB | M ₩ ₩ ₩ ₩ ₩ | | 912 0 GHz |
| Swept SA KEYSIGHT Input: RF R T Align: Auto CVV 1 Spectrum V Scale/Div 10 dB Log 10.0 | Input Z: 50 Ω Corr CCorr | | PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3 Ref Level 20.00 | Avg Type: Log-Power Avg Hold: 100/100 Trig: Free Run 3.08 dB | M ₩ ₩ ₩ ₩ ₩ | | 912 0 GHz |
| Swept SA KEYSIGHT Input: RF R T 1 Spectrum VV V Scale/Div 10 dB Log 10.0 0.00 | Input Z: 50 Ω Corr CCorr | | PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3 Ref Level 20.00 | Avg Type: Log-Power Avg Hold: 100/100 Trig: Free Run 3.08 dB | M ₩ ₩ ₩ ₩ ₩ | | 912 0 GHz |
| Swept SA KEYSIGHT Input: RF R T Align: Auto Coupling: DC Align: Auto Coupling: Align: Auto Coupling: Align: Auto Coupling: Align: Al | Input Z: 50 Ω Corr CCorr | | PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3 Ref Level 20.00 | Avg Type: Log-Power Avg Hold: 100/100 Trig: Free Run 3.08 dB | M ₩ ₩ ₩ ₩ ₩ | | 912 0 GHz |
| Swept SA KEYSIGHT Input: RF R T →→ Coupling: DC //////////////////////////////////// | Input Z: 50 Ω Corr CCorr | | PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3 Ref Level 20.00 | Avg Type: Log-Power Avg Hold: 100/100 Trig: Free Run 3.08 dB | M ₩ ₩ ₩ ₩ ₩ | | 912 0 GHz |
| Swept SA KEYSIGHT Input: RF R T → Coupling: DC Align: Auto Align: Auto IN Scale/Div 10 dB Log - - 10.0 - - -10.0 - - -20.0 - - | Input Z: 50 Ω Corr CCorr | | PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3 Ref Level 20.00 | Avg Type: Log-Power Avg Hold: 100/100 Trig: Free Run 3.08 dB | M ₩ ₩ ₩ ₩ ₩ | | 912 0 GHz |
| Swept SA KEYSIGHT Input: RF R T → Coupling: DC I Spectrum ▼ Scale/Div 10 dB ■ Log ■ ■ ■ ■ 10.0 ■ <td>Input Z: 50 Ω Corr CCorr</td> <td></td> <td>PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3 Ref Level 20.00</td> <td>Avg Type: Log-Power Avg Hold: 100/100 Trig: Free Run 3.08 dB</td> <td>M ₩ ₩ ₩ ₩ ₩</td> <td></td> <td>912 0 GHz</td> | Input Z: 50 Ω Corr CCorr | | PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3 Ref Level 20.00 | Avg Type: Log-Power Avg Hold: 100/100 Trig: Free Run 3.08 dB | M ₩ ₩ ₩ ₩ ₩ | | 912 0 GHz |
| Swept SA KEYSIGHT Input: RF R T → Coupling: DC Align: Auto Align: Auto Coupling: DC I Spectrum ▼ Scale/Div 10 dB ■ Log □ □ □ 10.0 □ □ □ .10.0 □ □ □ .20.0 □ □ □ .30.0 □ □ □ .40.0 □ □ □ .50.0 □ □ □ | Input Z: 50 Ω Corr CCorr | | PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3 Ref Level 20.00 | Avg Type: Log-Power Avg Hold: 100/100 Trig: Free Run 3.08 dB | M ₩ ₩ ₩ ₩ ₩ | | 912 0 GHz |
| Swept SA KEYSIGHT Input: RF R T → Coupling: DC I Spectrum ▼ Scale/Div 10 dB ■ Log ■ ■ ■ ■ 10.0 ■ <td>Input Z: 50 Ω Corr CCorr</td> <td></td> <td>PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref Level 20.00</td> <td>Avg Type: Log-Power Avg Hold: 100/100 Trig: Free Run 3.08 dB 0 dBm</td> <td>M ₩ ₩ ₩ ₩ ₩</td> <td>Mkr1 2.441</td> <td>912 0 GHz -1.65 dBm</td> | Input Z: 50 Ω Corr CCorr | | PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref Level 20.00 | Avg Type: Log-Power Avg Hold: 100/100 Trig: Free Run 3.08 dB 0 dBm | M ₩ ₩ ₩ ₩ ₩ | Mkr1 2.441 | 912 0 GHz -1.65 dBm |
| Swept SA KEYSIGHT Input: RF R T → Coupling: DC I Spectrum ▼ Scale/Div 10 dB ■ Log □ □ □ □ 10.0 □ □ □ □ -10.0 □ □ □ □ -20.0 □ □ □ □ -30.0 □ □ □ □ -60.0 □ □ □ □ -70.0 □ □ □ □ Center 2.442000 GHz #Res W 2.0 MHz □ □ | Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) | | PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3 Ref Level 20.00 | Avg Type: Log-Power Avg Hold: 100/100 Trig: Free Run 3.08 dB 0 dBm | M ₩ ₩ ₩ ₩ ₩ | Mkr1 2.441 | 912 0 GHz -1.65 dBm |
| Swept SA KEYSIGHT Input: RF R T → Coupling: DC I Spectrum ▼ Scale/Div 10 dB ■ Log □ □ □ □ 10.0 □ □ □ □ -10.0 □ □ □ □ -20.0 □ □ □ □ -30.0 □ □ □ □ -60.0 □ □ □ □ -70.0 □ □ □ □ Center 2.442000 GHz #Res W 2.0 MHz □ □ | Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) | #Atten: 30 dB | PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref Level 20.00 | Avg Type: Log-Power Avg Hold: 100/100 Trig: Free Run 3.08 dB 0 dBm 4 dBB | M ₩ ₩ ₩ ₩ ₩ | Mkr1 2.441 | 912 0 GHz -1.65 dBm |







-6dB Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | limit | Verdic |
|-----------|------|-----------------|---------|-----------------------|-------|--------|
| NVNT | BLE | 2402 | Ant1 | 0.66 | 0.5 | Pass |
| NVNT | BLE | 2442 | Ant1 | 0.662 | 0.5 | Pass |
| NVNT | BLE | 2480 | Ant1 | 0.659 | 0.5 | Pass |







| Öccupi | um Analy ied BW | | | , | - | | | | | | | |
|-------------------------|--|---------------------------------|------------|----------------------------------|----------------|--------------|--|---------------------------------------|--------------|----------|--------------|------------------------------|
| KEYS R T | SIGHT ↔ | Input: R Couplin Align: A | g: DC | Input Z: Corr CCo Freq Ref | orr | Atten: 30 dB | Trig: Free Run Gate: Off #IF Gain: Low | Center Fre Avg Hold: Radio Std: | | łz | | |
| 1 Grap | h | | • | | | | Ref LvI Offset 3 | 3.10 dB | | Μ | kr3 2.48031 | 7000 GHz |
| | Div 10.0 | dB | | | | | Ref Value 23.10 | | | | | -6.79 dBm |
| Log 13.1 - 3.10 - | | | | | | | | | 3 | | | |
| -6.90 -16.9 -26.9 | | | | | | | | | | | | |
| -36.9 -46.9 | and a start of the | And have | | | | | | | | | | |
| -56.9 -66.9 | | | | | | | | | | | | |
| | 2.4800 3W 100.0 | | | | | | #Video BW 300 | .00 kHz | | i | Sweep 1.33 n | Span 2 MHz ns (10001 pts) |
| 2 Metri | cs | | • | | | | | | | | | |
| | | | | | | | | | | | | |
| | | Occ | upied Ban | ndwidth 1.0387 | MHz | | | | Total Power | | 5.73 dBm | |
| | | | nsmit Freq | | -1 | 12.768 kHz | | | % of OBW Pow | er | 99.00 % | |
| | | x dE | 3 Bandwid | th | | 658.9 kHz | | | x dB | | -6.00 dB | |
| | 5 | | 1? | Mar 07 3:19:0 | , 2025 3 PM | | | | | | | |



Occupied Channel Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|-----------|------|-----------------|---------|---------------|
| NVNT | BLE | 2402 | Ant1 | 1.021 |
| NVNT | BLE | 2442 | Ant1 | 1.021 |
| NVNT | BLE | 2480 | Ant1 | 1.022 |







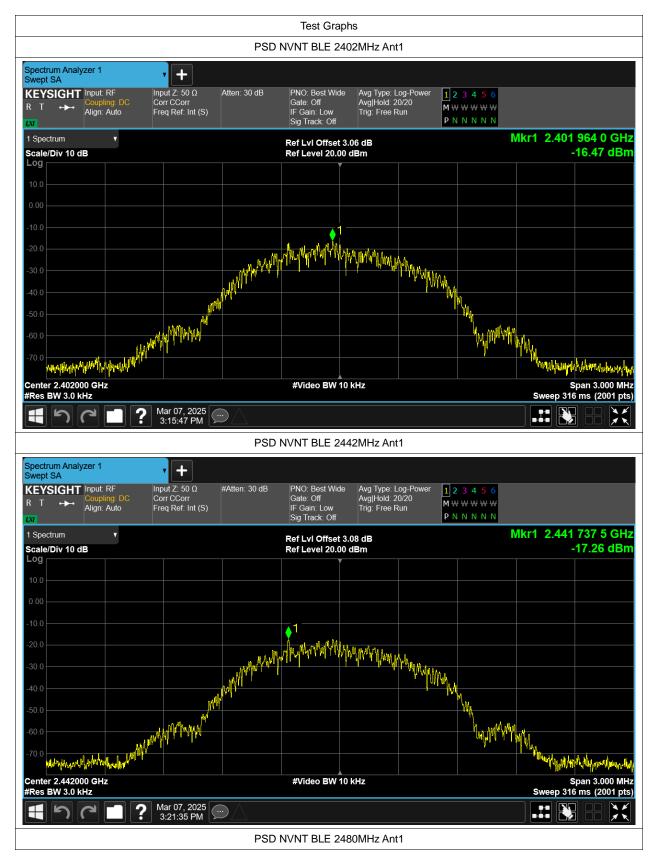
| Oc. | cupi | ım Analy ed BW | | | • + | | | | | | | | |
|-----|-------------|--|---------------------------------|------------|--|------------|----------|--|-----------|---|--------|------------|------------------------------|
| | Т | SIGHT | Input: F Couplir Align: A | ig: DC | Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S) | Atter | n: 30 dB | Trig: Free Run Gate: Off #IF Gain: Low | | eq: 2.480000000 0 1000/1000 I: None | θHz | | |
| | Grapt | | | T | | | | Ref LvI Offset | | | | | |
| | | Div 10.0 | dB | | | | | Ref Value 23.1 | 0 dBm | | | | |
| | og 3.1 – | | | | | | | | | | | | |
| | .10 - | | | | | | | | | | | | |
| | .90 - | | | | | | \sim | \sim | | | | | |
| -1 | 6.9 - | | | | | | \sim | | | | | | |
| | 6.9 — | | | | | \nearrow | | | | ` | | | |
| | 6.9 | | | | | | | | | | - Long | | |
| | 6.9 6.9 | | | ~~ | | | | | | | | man | |
| | 6.9 6.9 | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ~~~~ | ~~~~ | | | | | | | | - min | ····· |
| | | 0 40000 | | | | | | 10 (-1 | 000 1-11- | | | | 0 |
| | | 2.48000 W 30.00 | | | | | | #Video BW 91. | 000 KHZ | | | Sween 3 33 | Span 3 MHz ms (10001 pts) |
| | Metric | | | • | | | | | | | | Oneep 0.00 | 113 (10001 pt3) |
| | weuru | .5 | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | Oco | cupied Ban | dwidth | | | | | | | | |
| | | | | | 1.0218 MHz | | | | | Total Power | | 5.99 dBm | |
| | | | Tra | nsmit Freq | Error | -7.03 | 4 kHz | | | % of OBW Po | wer | 99.00 % | |
| | | | | 3 Bandwidt | | 1.246 | MHz | | | x dB | | -26.00 dB | |
| | | | | | | | | | | | | | |
| E | Ð | 5 | | ` ? | Mar 07, 2025 3:18:49 PM | \bigcirc | \land | | | | | | |



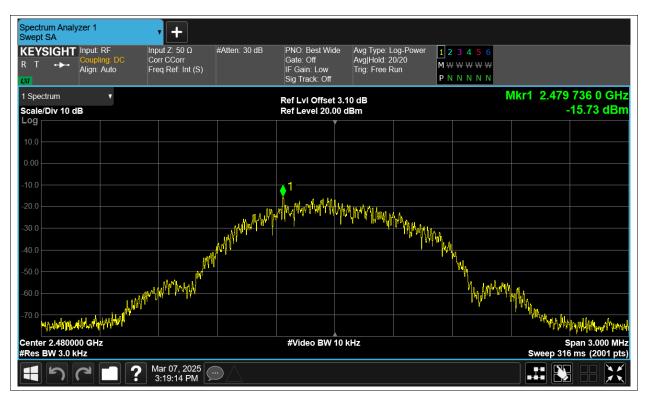
Maximum Power Spectral Density Level

| Condition | Mode | Frequency (MHz) | Antenna | Max PSD (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|---------------|-------------|---------|
| NVNT | BLE | 2402 | Ant1 | -16.472 | 8 | Pass |
| NVNT | BLE | 2442 | Ant1 | -17.261 | 8 | Pass |
| NVNT | BLE | 2480 | Ant1 | -15.729 | 8 | Pass |











Band Edge

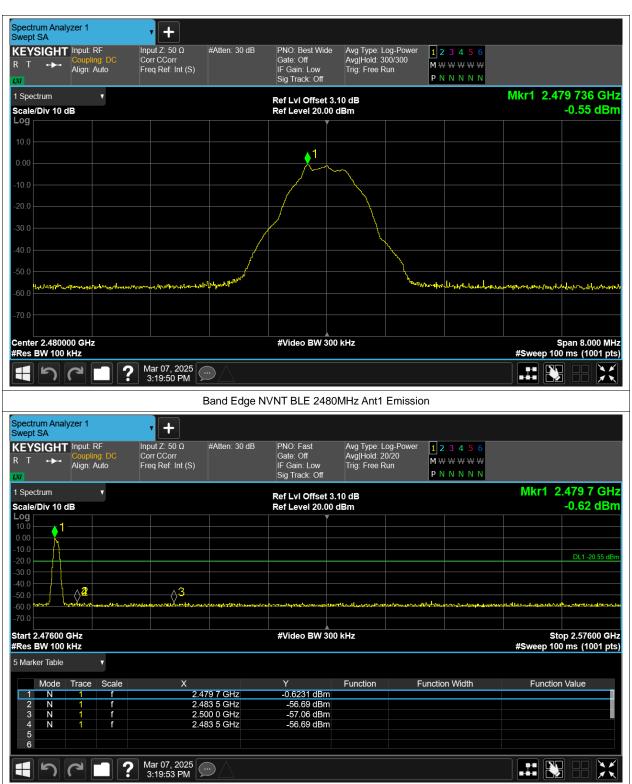
| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT | BLE | 2402 | Ant1 | -54.49 | -20 | Pass |
| NVNT | BLE | 2480 | Ant1 | -56.14 | -20 | Pass |



| | | Band Edge | Test Grap | | 1 Ref | | | |
|--|---|----------------|---|--|------------------------------|--|---------------------|---|
| Spectrum Analyzer 1 | • + | 5 | | | | | | |
| Swept SA KEYSIGHT Input: RF R T + | | Atten: 30 dB | PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off | Avg Type: Log Avg Hold: 300 Trig: Free Rur | /300 M ₩ | 3 4 5 6 ₩₩₩₩ N N N N | | |
| 1 Spectrum v | | | Ref LvI Offset 3 | 3.06 dB | | | Mkr1 2.4 | 01 736 GHz |
| Scale/Div 10 dB Log | | | Ref Level 20.00 | | | | | -1.64 dBm |
| 10.0 | | | | | | | | |
| 0.00 | | | 1 | | | | | |
| -10.0 | | | - | ~ | | | | |
| -20.0 | | | | | | | | |
| -30.0 | | | | | | | | |
| | | / | | L. | | | | |
| -40.0 | | | | 1 | Ny Ny | | | |
| -50.0 | aprover water water | Ntal Van Nange | | | Way Marillower | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | wattlawyulfunghahay | hunner Marger for the former |
| -60.0 | | | | | | | | |
| -70.0 | | | | | | | | |
| Center 2.402000 GHz | | | #Video BW 30 | 0 kHz | | | | Span 8.000 MHz |
| | Mar 07, 2025 🖳 | | | | | | | 0 ms (1001 pts) |
| | Mar 07, 2025 3:16:07 PM | | | | | | | |
| | | | | | | | | |
| | Ba | and Edge N\ | /NT BLE 2402 | 2MHz Ant1 E | mission | | | |
| Spectrum Analyzer 1 Swept SA | Ba | and Edge N\ | /NT BLE 2402 | 2MHz Ant1 E | mission | | | |
| Swept SA KEYSIGHT Input: RF | τ Input Z: 50 Ω # | And Edge N | PNO: Fast | Avg Type: Log | J-Power 1 2 | 3456 | | |
| Swept SA KEYSIGHT Input: RF R T ↔ Align: Auto | • + | | PNO: Fast Gate: Off IF Gain: Low | | g-Power 12 20 M ₩ | ₩₩₩₩ | | _ |
| Swept SA KEYSIGHT Input: RF R T Coupling: DC | | | PNO: Fast Gate: Off IF Gain: Low Sig Track: Off | Avg Type: Log Avg Hold: 20/ Trig: Free Rur | g-Power 12 20 M ₩ | | Mkr1 2 | .402 0 GHz |
| Swept SA KEYSIGHT Input: RF Coupling: DC Align: Auto I Spectrum Scale/Div 10 dB | | | PNO: Fast Gate: Off IF Gain: Low | Avg Type: Log Avg Hold: 20/ Trig: Free Rur 8.06 dB | g-Power 12 20 M ₩ | ₩₩₩₩ | Mkr1 2 | .402 0 GHz -2.55 dBm |
| Swept SA KEYSIGHT Input: RF Coupling: DC Align: Auto I Spectrum Scale/Div 10 dB Log 10.0 | | | PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3 | Avg Type: Log Avg Hold: 20/ Trig: Free Rur 8.06 dB | g-Power 12 20 M ₩ | ₩₩₩₩ | Mkr1 2 | |
| Swept SA Input: RF R T →→ Coupling: DC Align: Auto Align: Auto 1 Spectrum ▼ Scale/Div 10 dB 10.0 0.00 0.00 -10.0 ■ | | | PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3 | Avg Type: Log Avg Hold: 20/ Trig: Free Rur 8.06 dB | g-Power 12 20 M ₩ | ₩₩₩₩ | Mkr1 2 | -2.55 dBm |
| Swept SA KEYSIGHT Input: RF R T OU 1 Spectrum Scale/Div 10 dB Log 10.0 | | | PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3 | Avg Type: Log Avg Hold: 20/ Trig: Free Rur 8.06 dB | g-Power 12 20 M ₩ | ₩₩₩₩ | Mkr1 2 | |
| Swept SA KEYSIGHT Input: RF R T Coupling: DC. Align: Auto Align: Auto 1 Spectrum V Scale/Div 10 dB 0.00 10.0 0.00 -10.0 0.00 | | | PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3 | Avg Type: Log Avg Hold: 20/ Trig: Free Rur 8.06 dB dBm | g-Power 12 20 M ₩ | ₩₩₩₩ | | -2.55 dBm |
| Swept SA KEYSIGHT Input: RF R T → Coupling: DC Align: Auto I Spectrum ▼ Scale/Div 10 dB 0 0 0 10.0 0 0 0 0 -20.0 0 0 0 0 0 -30.0 | | | PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3 | Avg Type: Log Avg Hold: 20/ Trig: Free Rur 8.06 dB | g-Power 12 20 M ₩ | ₩₩₩₩ | Mkr1 2 | -2.55 dBm |
| Swept SA KEYSIGHT Input: RF R T Coupling: DC Align: Auto V Scale/Div 10 dB V Scale/Div 10 dB V 30.0 0 0 -10.0 0 0 0 -20.0 0 0 0 0 -10.0 | | | PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3 Ref Level 20.00 | Avg Type: Log Avg Hold: 20/ Trig: Free Rur 3.06 dB dBm | g-Power 12 20 M ₩ | ₩ ₩ ₩ ₩ N N N N N | | -2.55 dBm |
| Swept SA KEYSIGHT Input: RF R T Coupling DC J Spectrum v Scale/Div 10 dB v Log 0 0 10.0 0 0 0 -10.0 0 0 0 0 -20.0 -30.0 -40.0 -40.0 -40.0 -40.0 -50.0 -40.0 -50.0 <td></td> <td></td> <td>PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3</td> <td>Avg Type: Log Avg Hold: 20/ Trig: Free Rur 3.06 dB dBm</td> <td>g-Power 12 20 M ₩</td> <td>₩ ₩ ₩ ₩ N N N N N</td> <td>jt</td> <td>-2.55 dBm</td> | | | PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3 | Avg Type: Log Avg Hold: 20/ Trig: Free Rur 3.06 dB dBm | g-Power 12 20 M ₩ | ₩ ₩ ₩ ₩ N N N N N | jt | -2.55 dBm |
| Swept SA KEYSIGHT Input: RF R T Coupling. DC. Align: Auto Align: Auto Scale/Div 10 dB Coupling. DC. Log Imput: RF Imput: RF 0.00 Imput: RF Imput: RF 1 Spectrum V Scale/Div 10 dB Log Imput: RF Imput: RF 0.00 Imput: RF | Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) | | PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref Level 20.000 | Avg Type: Log Avg Hold: 20/ Trig: Free Rur 8.06 dB dBm | 1-Power 1 2 20 M ₩ P N | | st #Sweep 50. | -2.55 dBm 1 DL1-2 dd dBm 2 40,40,01 m 0 ms (1001 pts) |
| Swept SA KEYSIGHT R T Coupling DC Align: Auto I Spectrum v Scale/Div 10 dB Log 10.0 0.00 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 -70.0 Start 2.30600 GHz #Res BW 100 kHz 5 Marker Table v Mode Trace Scale 1 N 1 f | Linput Z: 50 Ω Corr CCorr Freq Ref: Int (S) | | PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3 Ref Level 20.00 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | Avg Type: Log Avg Hold: 20/ Trig: Free Rur 3.06 dB dBm | g-Power 12 20 M ₩ | | jt | -2.55 dBm |
| Swept SA KEYSIGHT R T Align: Auto CV 1 Spectrum 1 Spectrum Scale/Div 10 dB Log 10.0 -0. | | Atten: 30 dB | PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3 Ref Level 20.00 #Video BW 30 Y -2.553 dBm -54.91 dBm -60.27 dBm | Avg Type: Log Avg Hold: 20/ Trig: Free Rur 8.06 dB dBm | 1-Power 1 2 20 M ₩ P N | | st #Sweep 50. | -2.55 dBm |
| Swept SA KEYSIGHT Input: RF R T Coupling: DC Align: Auto I Spectrum V Scale/Div 10 dB Outomation Outomation 100 Outomation Outomation Outomation Scale/Div 10 dB Outomation Outomation Outomation Outomation 200 Outomation | Input Z: 50 Ω Corr CCorr # Freq Ref: Int (S) # | Atten: 30 dB | PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3 Ref Level 20.00 # #Video BW 30 Y -2.553 dBm -54.91 dBm | Avg Type: Log Avg Hold: 20/ Trig: Free Rur 8.06 dB dBm | 1-Power 1 2 20 M ₩ P N | | st #Sweep 50. | -2.55 dBm |
| Swept SA KEYSIGHT Input: RF R T Coupling. DC Align: Auto Align: Auto I Spectrum V Scale/Div 10 dB Outomatic Log Image: Coupling and the second | x 2.402 2.360 X 2.402 2.360 | Atten: 30 dB | PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3 Ref Level 20.00 #Video BW 30 Y -2.553 dBm -54.91 dBm -60.27 dBm | Avg Type: Log Avg Hold: 20/ Trig: Free Rur 8.06 dB dBm | 1-Power 1 2 20 M ₩ P N | | st #Sweep 50. | -2.55 dBm 1 DI1-2 (4 dBm 2 church / 4 2 church / 4 2 church / 4 4 2 church / 4 4 2 church / 4 4 4 2 church / 4 4 4 4 4 4 4 4 4 4 4 4 4 4 |
| Swept SA Input: RF R T Coupling: DC Align: Auto I Spectrum v Scale/Div 10 dB 0 0 100 0 0 100 0 0 100 0 0 200 0 0 -10.0 0 0 -20.0 0 0 -30.0 0 0 -40.0 0 0 -70.0 0 0 Start 2.30600 GHz #Res BW 100 kHz 1 5 Marker Table v 1 Mode Trace Scale 1 1 1 2 1 1 3 1 1 4 N 1 1 | Input Z: 50 Ω Corr CCorr # Freq Ref: Int (S) # | Atten: 30 dB | PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3 Ref Level 20.00 #Video BW 30 Y -2.553 dBm -54.91 dBm -60.27 dBm | Avg Type: Log Avg Hold: 20/ Trig: Free Rur 8.06 dB dBm 4 0 kHz Function | F-Power 1 2 20 M W P N | | st #Sweep 50. | -2.55 dBm 1 DI1-2 (4 dBm 2 church / 4 2 church / 4 2 church / 4 4 2 church / 4 4 2 church / 4 4 4 2 church / 4 4 4 4 4 4 4 4 4 4 4 4 4 4 |



Report No.: JYTSZ-R12-2500223





Conducted RF Spurious Emission

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT | BLE | 2402 | Ant1 | -46.91 | -20 | Pass |
| NVNT | BLE | 2442 | Ant1 | -48.34 | -20 | Pass |
| NVNT | BLE | 2480 | Ant1 | -48.68 | -20 | Pass |



| | | | Tre Creation | Test Graph | | | |
|--|---------------------------------------|--|---|---|--|---|--|
| Spectrum Analyzer | 1 | | Tx. Spuriou | IS NVNT BLE 24 | 402MHz Ant1 Ref | | |
| Swept SA | ıt: RF ıpling: DC | Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S) | #Atten: 30 dB | PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off | Avg Type: Log-Power Avg Hold: 300/300 Trig: Free Run | 1 2 3 4 5 6 M W W W W W P N N N N N | |
| 1 Spectrum | ¥ | | | Ref LvI Offset 3. | | | Mkr1 2.401 736 0 GHz |
| Scale/Div 10 dB | | | | Ref Level 20.00 | dBm | | -1.65 dBm |
| 10.0 | | | ▲ 1 | | | | |
| 0.00 | | | | ····· | | Jan 1 | |
| -10.0 | | | | | | | Marine Mari |
| -20.0 | S Martin | | | | | | |
| -30.0 | | | | | | | |
| -50.0 | | | | | | | |
| -60.0 | | | | | | | |
| -70.0 | | | | | | | |
| Center 2.4020000 (| 24- | | | #Video BW 300 | | | Span 1.500 MHz |
| #Res BW 100 kHz | | | | #VIUE0 BW 300 | | | Sweep 1.00 ms (1001 pts) |
| 500 | 2 | Mar 07, 2025 3:16:16 PM | \square | | | | |
| | | - | Tx. Spurious N | NVNT BLE 2402 | 2MHz Ant1 Emissi | on | |
| Spectrum Analyzer Swept SA | 1 | • + | | | | | |
| KEYSIGHT Inpu | | | #Atten: 30 dB | | | | |
| P T Cou | ipling: DC | Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S) | #Allen: 50 db | PNO: Fast Gate: Off IF Gain: Low Sig Track: Off | Avg Type: Log-Power Avg Hold: 5/5 Trig: Free Run | 1 2 3 4 5 6 M ₩ ₩ ₩ ₩ ₩ P N N N N N | |
| R T ↔ Cou Align 1 Spectrum | ipling: DC | Corr CCorr | | Gate: Off IF Gain: Low Sig Track: Off Ref Lvl Offset 3. | Avg Hold: 5/5 Trig: Free Run 06 dB | M ₩ ₩ ₩ ₩ ₩ | Mkr1 2.402 GHz -2 73 dBm |
| R T ↔ Cou Align | ipling: DC n: Auto | Corr CCorr | | Gate: Off IF Gain: Low Sig Track: Off | Avg Hold: 5/5 Trig: Free Run 06 dB | M ₩ ₩ ₩ ₩ ₩ | Mkr1 2.402 GHz -2.73 dBm |
| R T ↔ Cou Aligi 1 Spectrum Scale/Div 10 dB Log | ipling: DC n: Auto | Corr CCorr | | Gate: Off IF Gain: Low Sig Track: Off Ref Lvl Offset 3. | Avg Hold: 5/5 Trig: Free Run 06 dB | M ₩ ₩ ₩ ₩ ₩ | -2.73 dBm |
| R T →→ Cou LVV 1 Spectrum Scale/Div 10 dB Log 10.0 0.00 | ipling: DC n: Auto | Corr CCorr | | Gate: Off IF Gain: Low Sig Track: Off Ref Lvl Offset 3. | Avg Hold: 5/5 Trig: Free Run 06 dB | M ₩ ₩ ₩ ₩ ₩ | -2.73 dBm |
| R T →→ Align I Spectrum Scale/Div 10 dB Log 10.0 .00 -10.0 -20.0 | ipling: DC n: Auto | Corr CCorr Freq Ref: Int (S) | 3 | Gate: Off IF Gain: Low Sig Track: Off Ref Lvl Offset 3. | Avg Hold: 5/5 Trig: Free Run 06 dB | M ₩ ₩ ₩ ₩ ₩ | -2.73 dBm |
| R T → Cou 1 Spectrum Scale/Div 10 dB 10.0 0.00 -10.0 -0.0 -20.0 | ipling: DC n: Auto | Corr CCorr Freq Ref: Int (S) | | Gate: Off IF Gain: Low Sig Track: Off Ref Lvl Offset 3. | Avg Hold: 5/5 Trig: Free Run 06 dB | M ₩ ₩ ₩ ₩ ₩ | -2.73 dBm |
| R T → Cou 1 Spectrum Scale/Div 10 dB 10.0 0.00 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 -70.0 Start 30 MHz | ipling: DC n: Auto | Corr CCorr Freq Ref: Int (S) | | Gate: Off IF Gain: Low Sig Track: Off Ref Lvl Offset 3. | Avg Hold: 5/5 Trig: Free Run | M ₩ ₩ ₩ ₩ ₩ | -2.73 dBm |
| R T → Cou Align 1 Spectrum Scale/Div 10 dB 0 10.0 0 0 0 -10.0 | ipling: DC n: Auto | Corr CCorr Freq Ref: Int (S) | | Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3. Ref Level 20.000 | Avg Hold: 5/5 Trig: Free Run | M ₩ ₩ ₩ ₩ ₩ | -2.73 dBm |
| R T → Cou 1 Spectrum Scale/Div 10 dB 0 Log 10.0 0 0 10.0 0 0 0 -20.0 - 0 0 -30.0 - - 0 -60.0 - - 0 -70.0 Start 30 MHz #Res BW 100 kHz 5 5 Marker Table Mode Trace | 1 1 1 | Corr CCorr Freq Ref: Int (S) | 3 | Gate: Off IF Gain: Low Sig Track: Off Ref Level 20.00 (A 4 4 #Video BW 300 | Avg Hold: 5/5 Trig: Free Run | M ₩ ₩ ₩ ₩ ₩ | -2.73 dBm |
| R T → Cou 1 Spectrum Scale/Div 10 dB 0 Log 10.0 0 0 10.0 0 0 0 -20.0 0 0 0 -30.0 0 0 0 -50.0 0 0 0 -70.0 0 0 0 Start 30 MHz #Res BW 100 kHz 5 5 Marker Table 0 0 | 1 1 | Corr CCorr Freq Ref: Int (S) | 3 | Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3. Ref Level 20.00 (4 4 #Video BW 300 | Avg Hold: 5/5 Trig: Free Run | | -2.73 dBm |
| R T → Cou 1 Spectrum Scale/Div 10 dB Log 0 0 10.0 0 -0.0 0 -20.0 0 -30.0 0 -40.0 0 -50.0 0 -70.0 0 Start 30 MHz #Res BW 100 kHz 5 Marker Table 1 1 N 1 1 2 N 3 N 4 N 5 N | pping DC n: Auto | Corr CCorr Freq Ref. Int (S) | 3 3 | Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3. Ref Level 20.00 (4 4 #Video BW 300 Y -2.729 dBm -52.28 dBm | Avg Hold: 5/5 Trig: Free Run | | -2.73 dBm |
| R T → Cou Align 1 Spectrum Scale/Div 10 dB Log 0 0 10.0 0 0 -10.0 0 0 -20.0 0 0 -30.0 0 0 -40.0 0 0 -50.0 0 0 -70.0 0 0 Start 30 MHz #Res BW 100 kHz 5 Marker Table 1 Mode Tract 1 N 1 2 N 1 4 N 1 | I f f f f f f | Corr CCorr Freq Ref: Int (S) | 3 2.402 GHz 1.999 GHz 7.072 GHz 2.768 GHz 3.826 GHz | Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3. Ref Level 20.00 (4 4 #Video BW 300 Y -2.729 dBm -53.51 dBm -53.51 dBm -54.31 dBm | Avg Hold: 5/5 Trig: Free Run | | -2.73 dBm |
| R T → Cou Align 1 Spectrum Scale/Div 10 dB Log 0 0 10.0 0 0 -10.0 0 0 -20.0 0 0 -30.0 0 0 -40.0 0 0 -50.0 0 0 -70.0 0 0 Start 30 MHz #Res BW 100 kHz 5 Marker Table 1 1 2 N 1 3 N 1 4 N 1 5 N 1 | te Scale | Corr CCorr Freq Ref: Int (S) | 3 2.402 GHz 1.999 GHz 7.072 GHz 2.7072 GHz 2.768 GHz | Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3. Ref Level 20.00 (4 4 #Video BW 300 Y -2.729 dBm -53.51 dBm -53.51 dBm -54.31 dBm | Avg Hold: 5/5 Trig: Free Run | | -2.73 dBm |







