



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: Wireless Gooseneck FM Transmitter

Test Model: VM-208S

Environmental Conditions

Temperature:	24.6°C
Relative Humidity:	53.9%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun

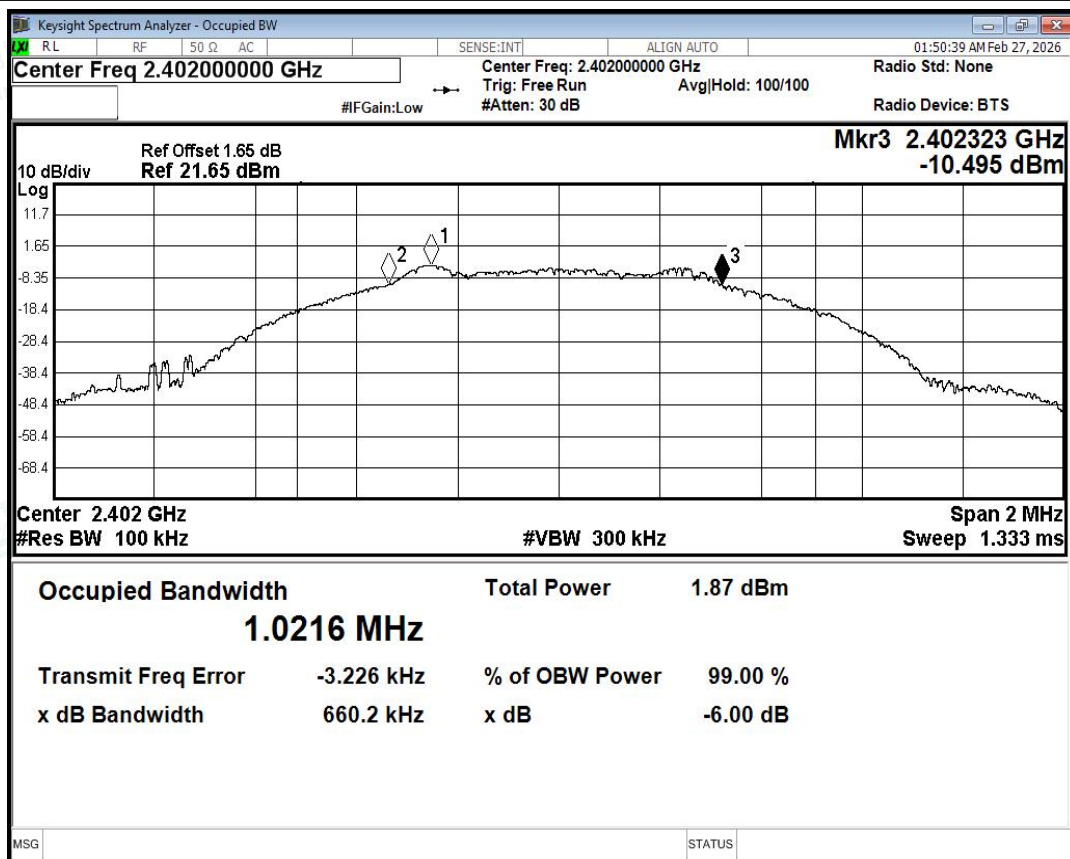




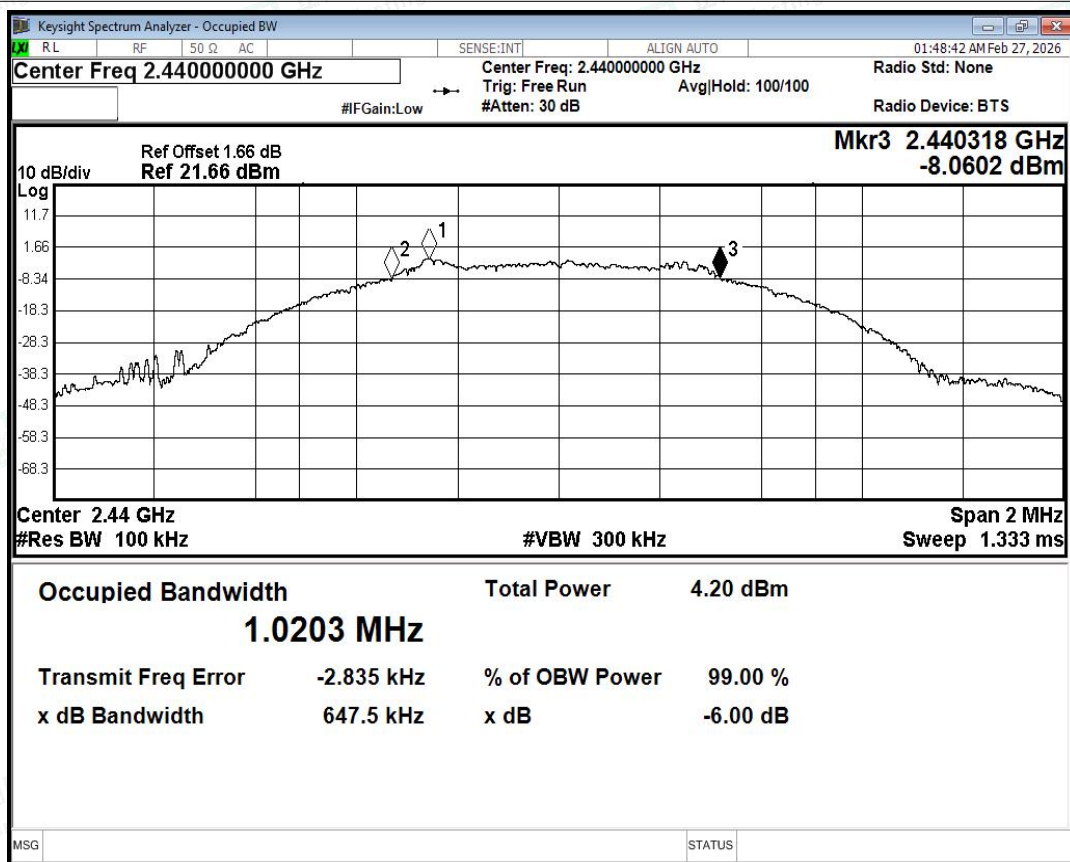
B.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.6602	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.6475	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.6584	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.124	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.143	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.169	0.5	Pass





-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



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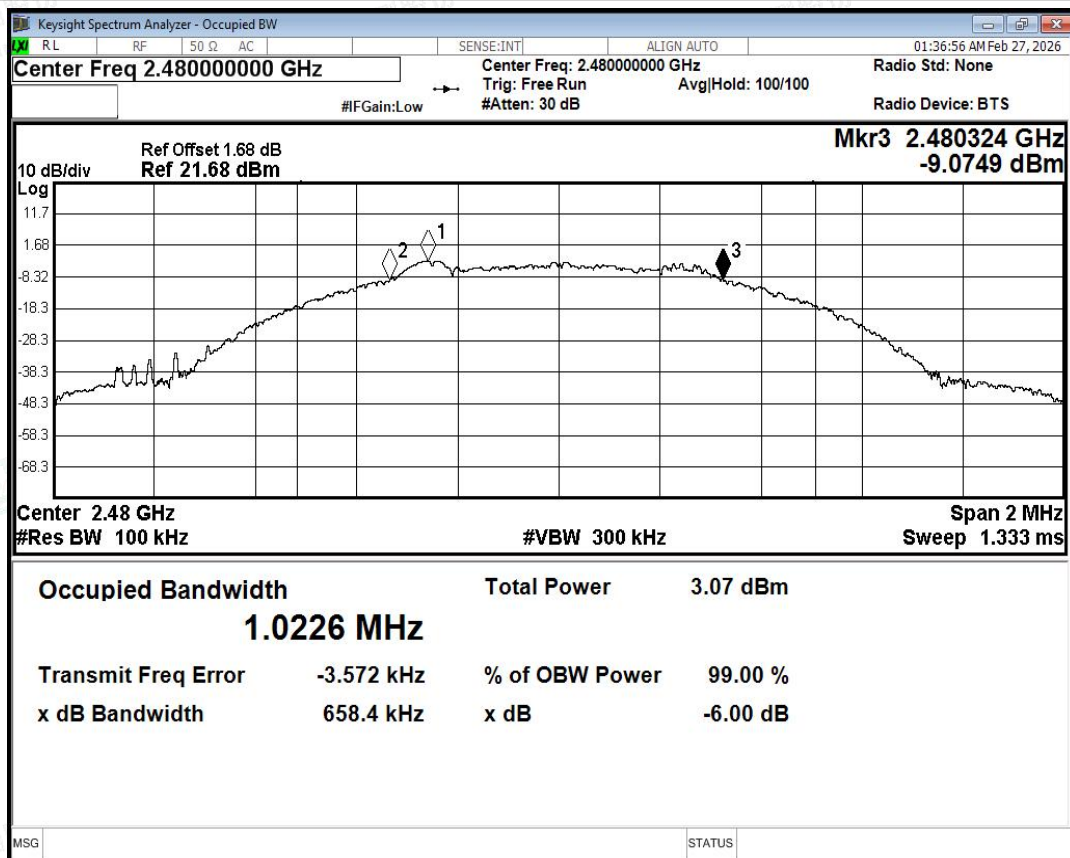
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-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1

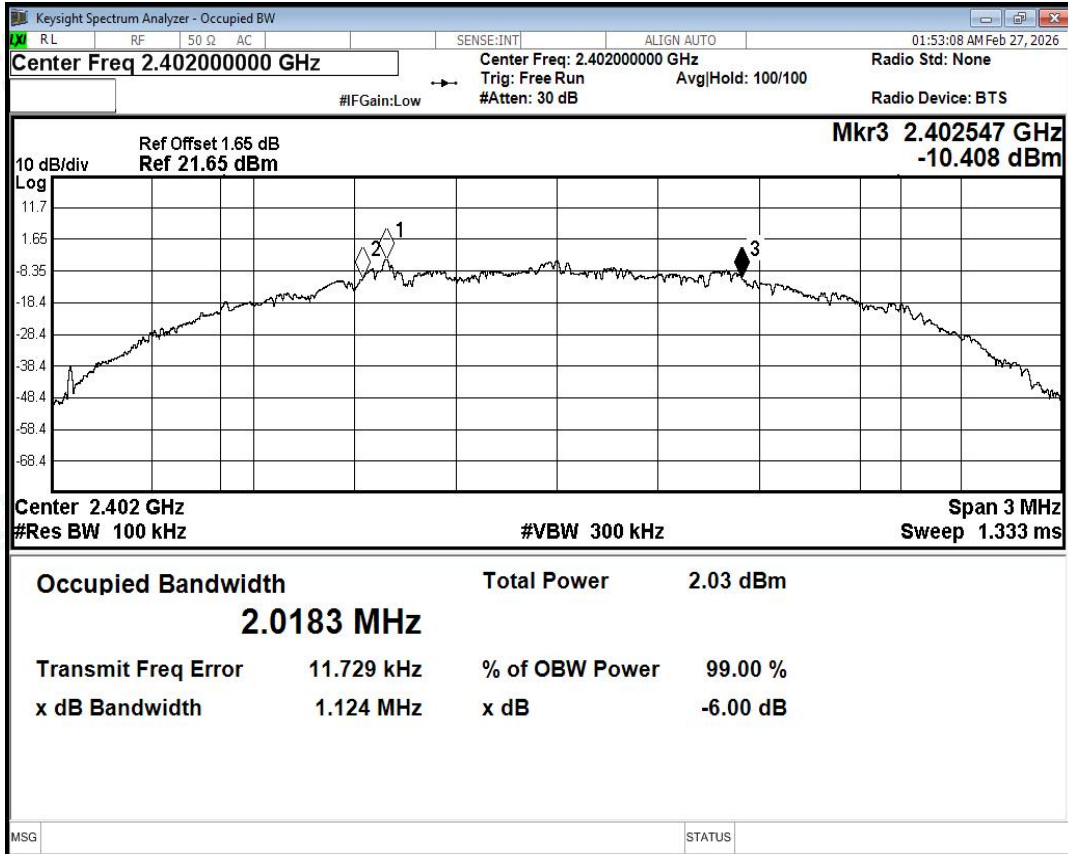


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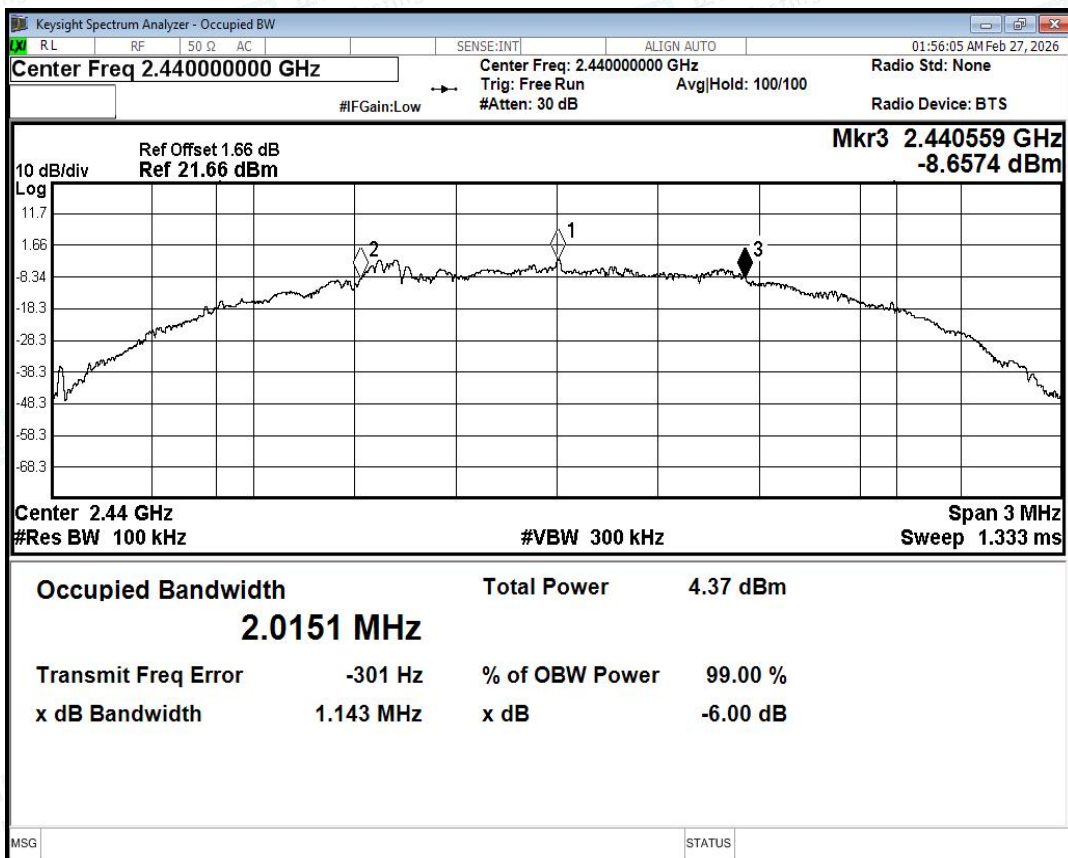
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-6dB Bandwidth NVNT BLE 2M 2402MHz Ant1



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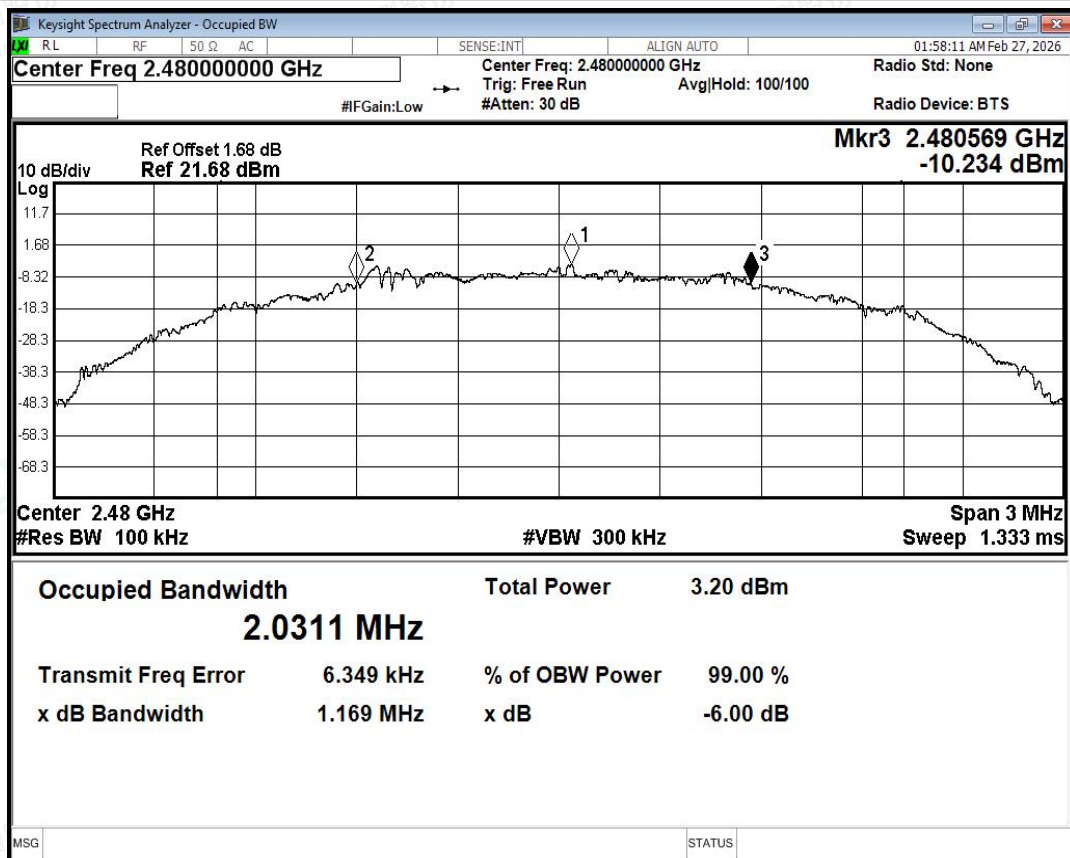
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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-6dB Bandwidth NVNT BLE 2M 2440MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2480MHz Ant1



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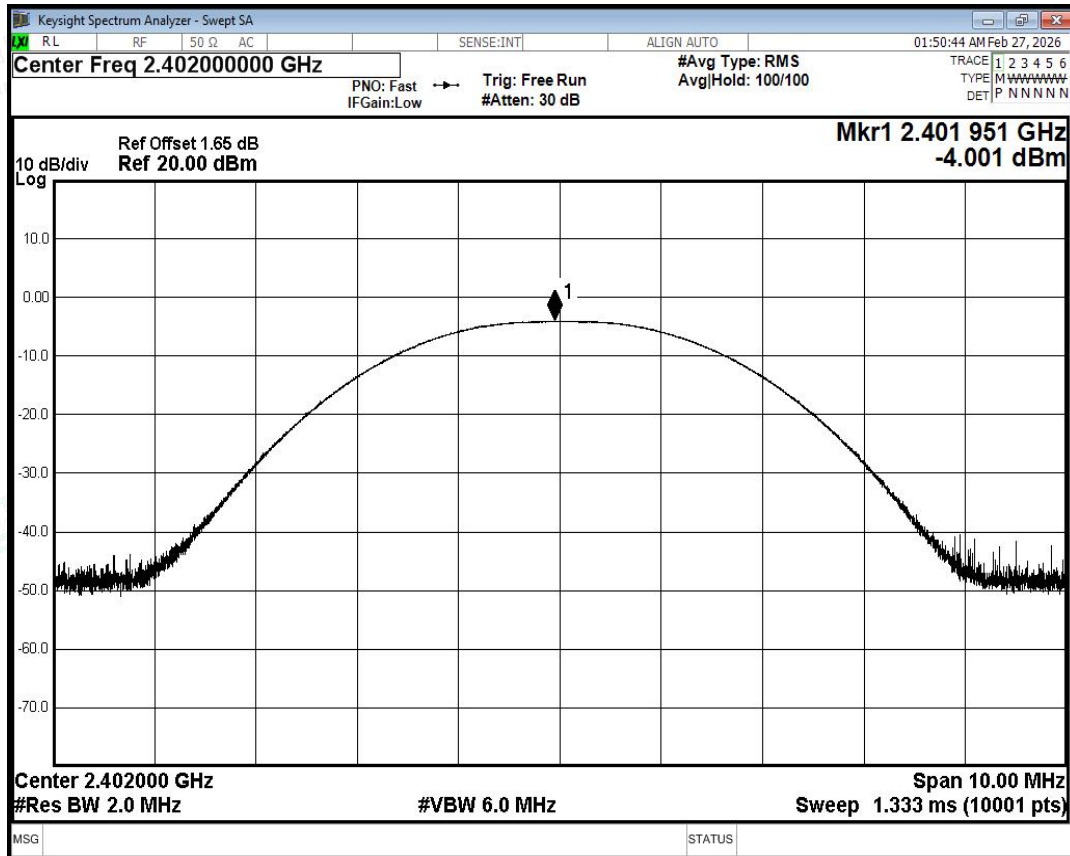
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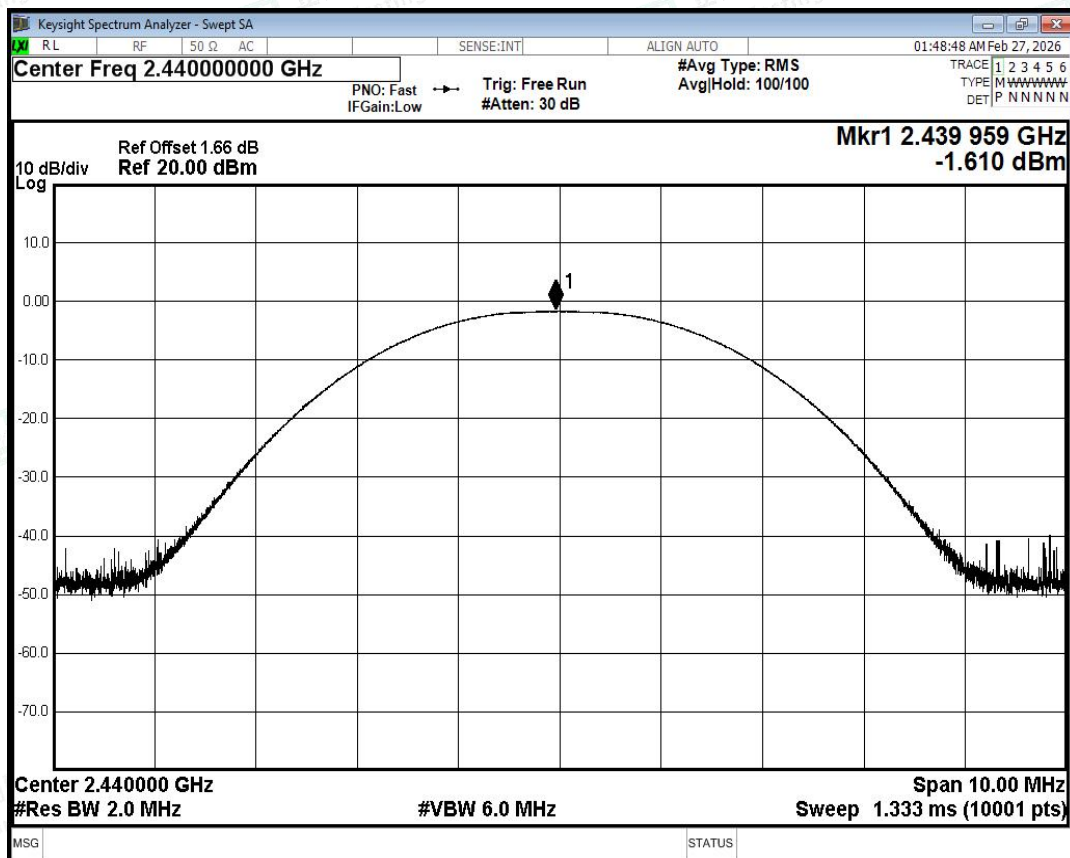
B.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit Conducted(dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-4	30	Pass
NVNT	BLE 1M	2440	Ant1	-1.61	30	Pass
NVNT	BLE 1M	2480	Ant1	-2.7	30	Pass
NVNT	BLE 2M	2402	Ant1	-4.17	30	Pass
NVNT	BLE 2M	2440	Ant1	-1.93	30	Pass
NVNT	BLE 2M	2480	Ant1	-2.94	30	Pass





Peak Power NVNT BLE 1M 2402MHz Ant1



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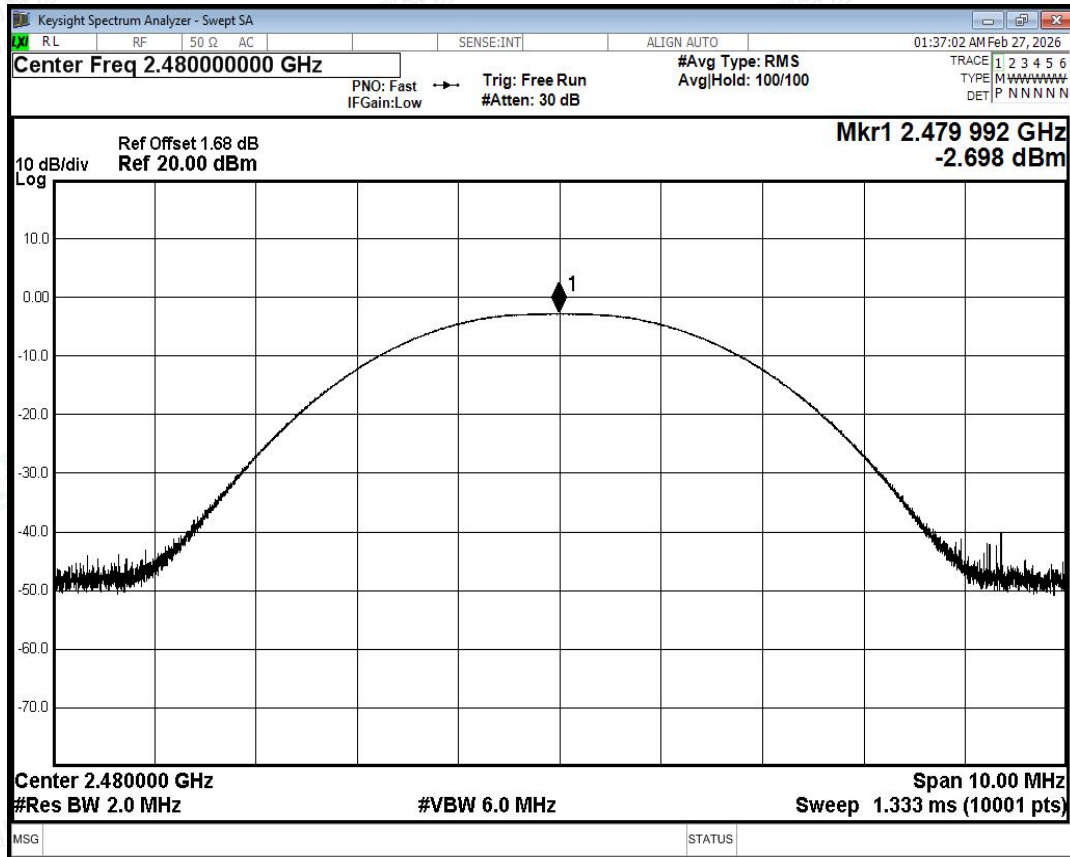
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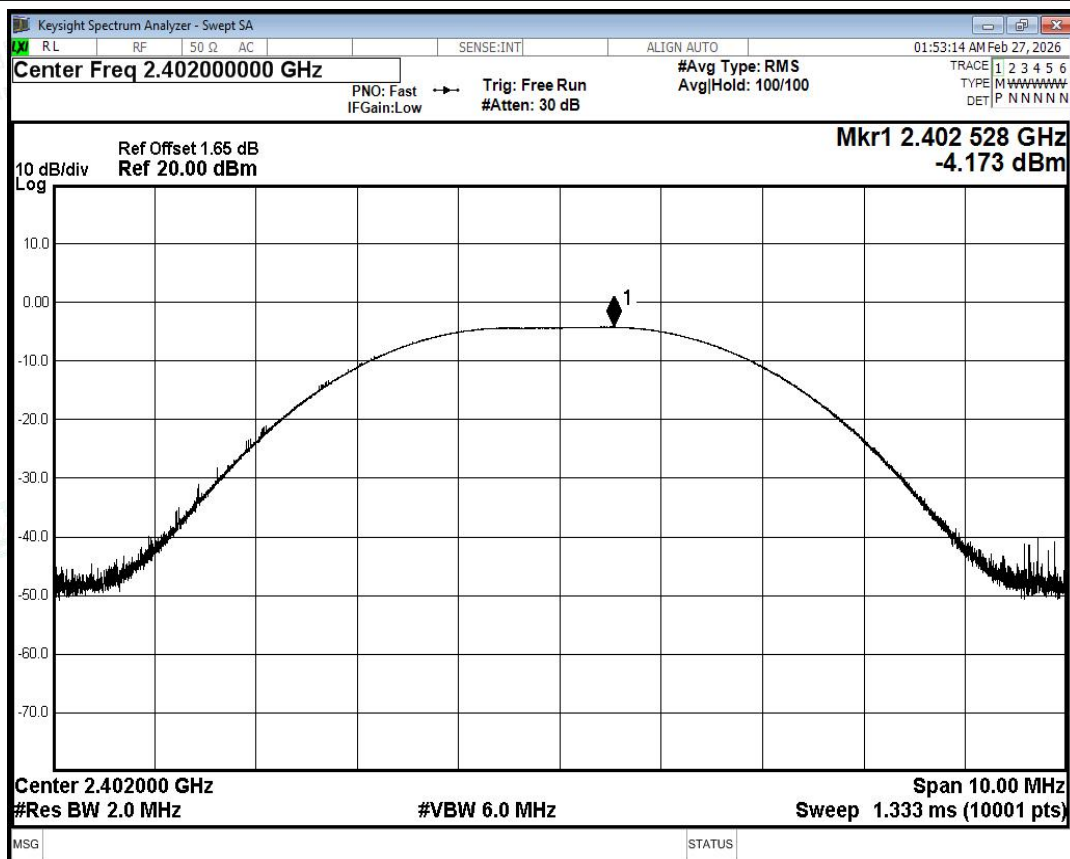


Peak Power NVNT BLE 1M 2440MHz Ant1

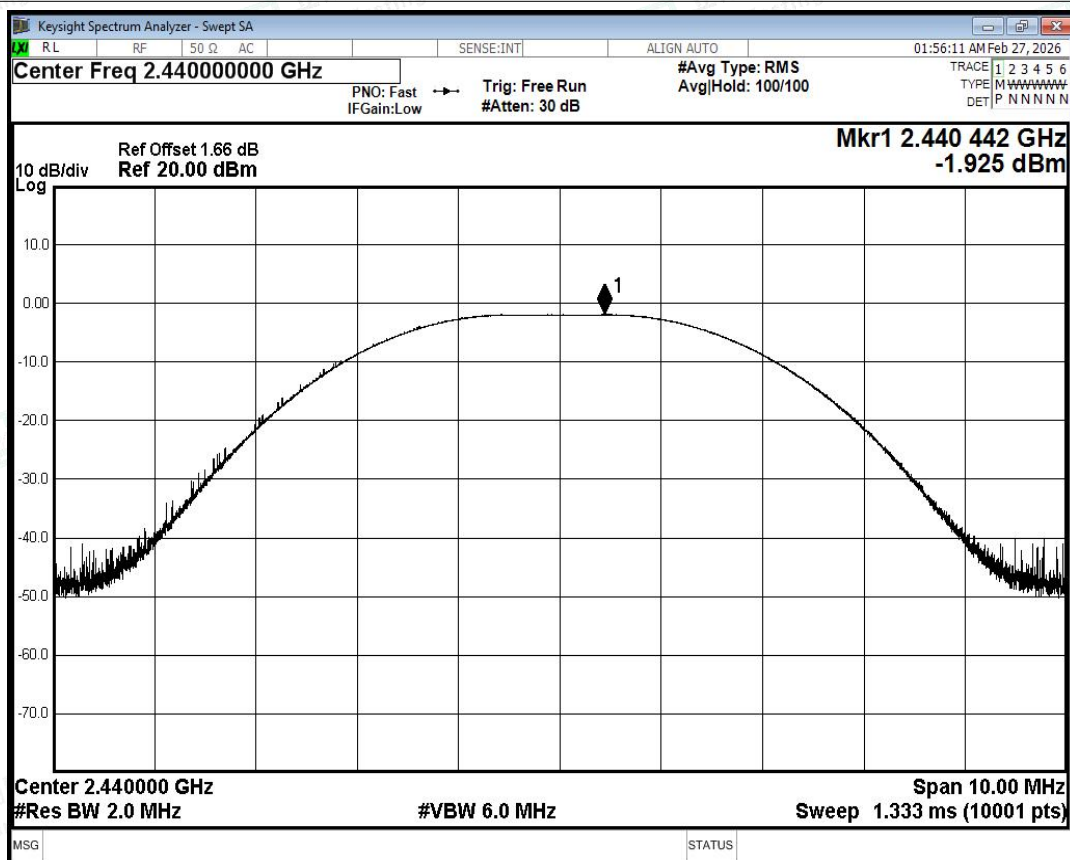


Peak Power NVNT BLE 1M 2480MHz Ant1





Peak Power NVNT BLE 2M 2402MHz Ant1



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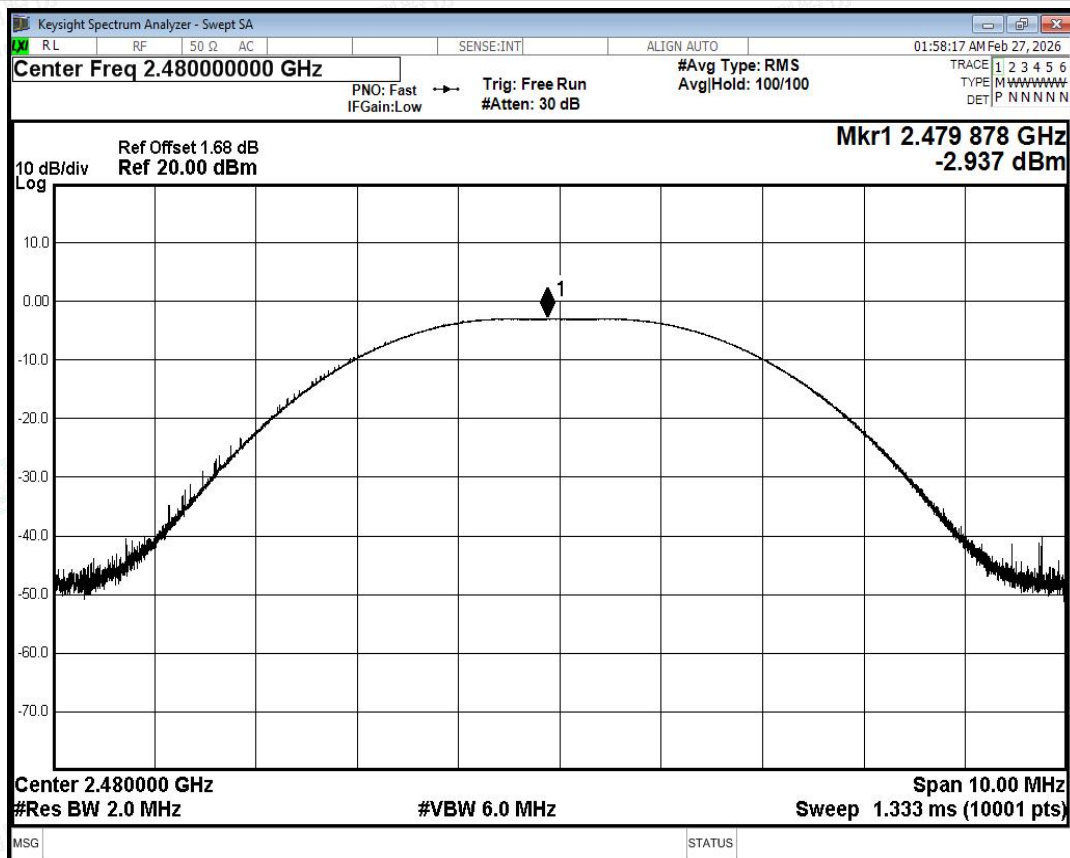
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Peak Power NVNT BLE 2M 2440MHz Ant1



Peak Power NVNT BLE 2M 2480MHz Ant1



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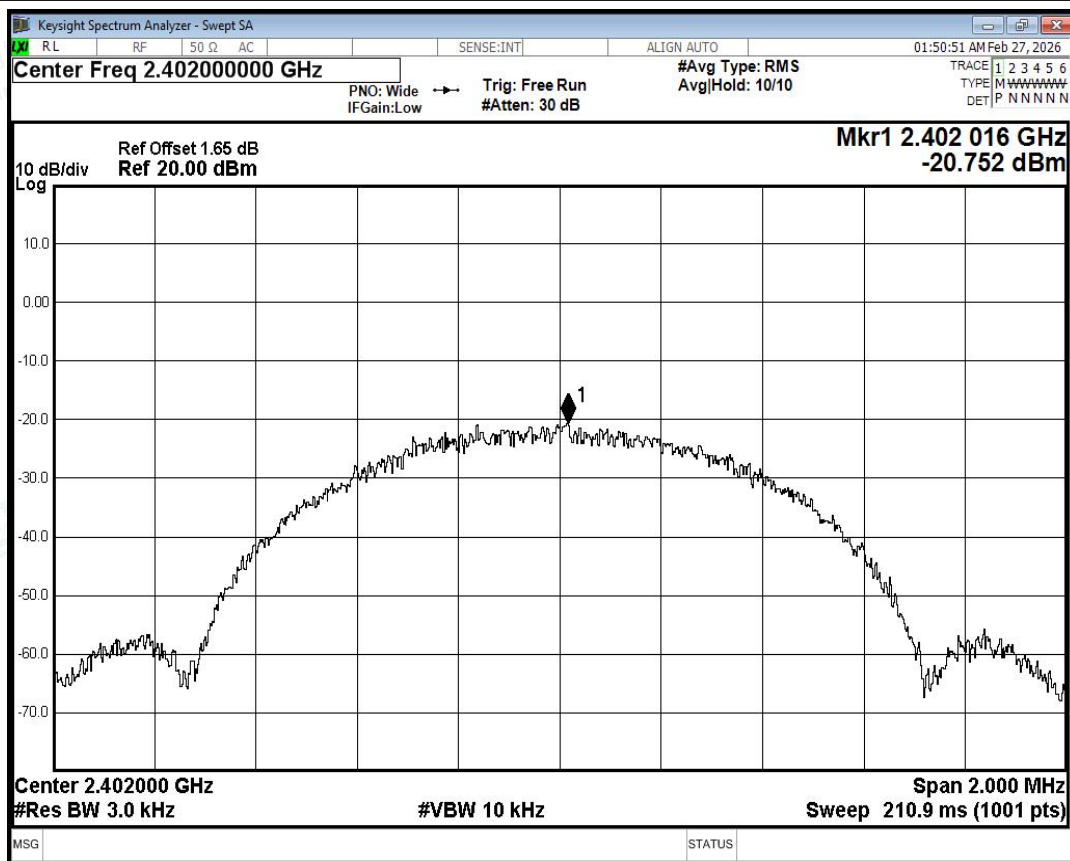
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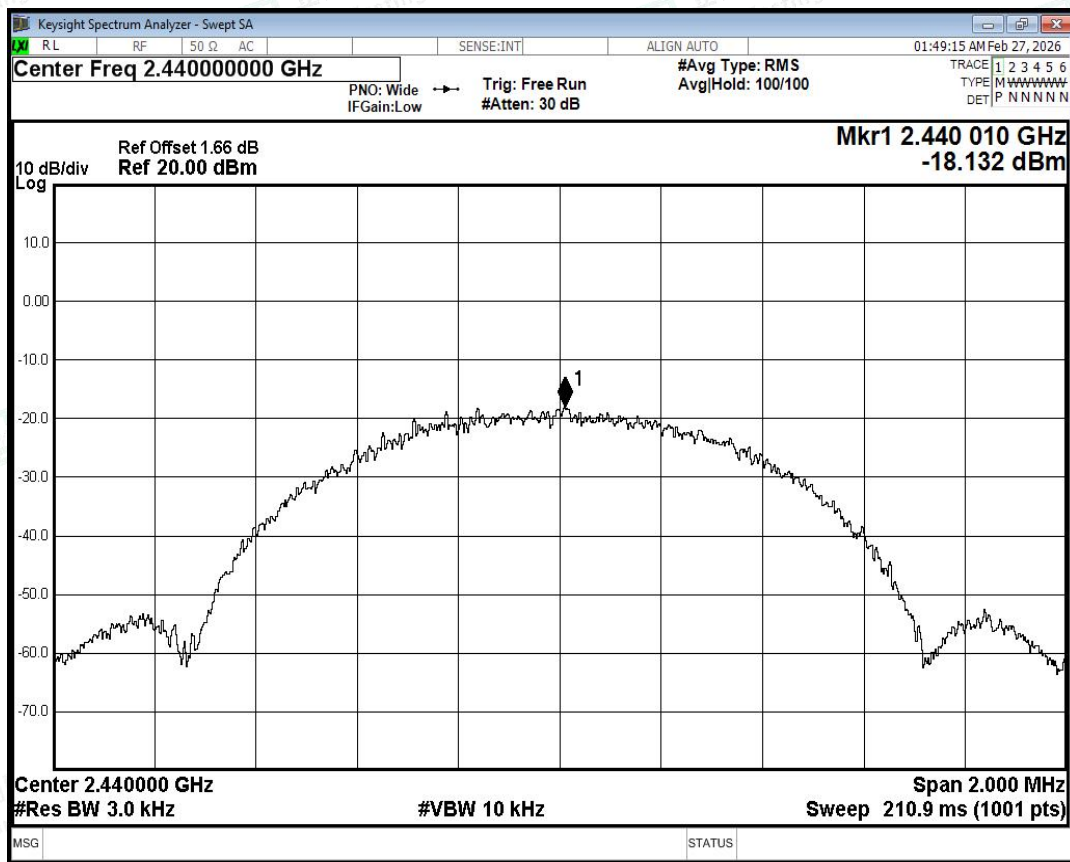
B.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-20.75	8	Pass
NVNT	BLE 1M	2440	Ant1	-18.13	8	Pass
NVNT	BLE 1M	2480	Ant1	-19.13	8	Pass
NVNT	BLE 2M	2402	Ant1	-23.67	8	Pass
NVNT	BLE 2M	2440	Ant1	-21.18	8	Pass
NVNT	BLE 2M	2480	Ant1	-22.5	8	Pass





PSD NVNT BLE 1M 2402MHz Ant1



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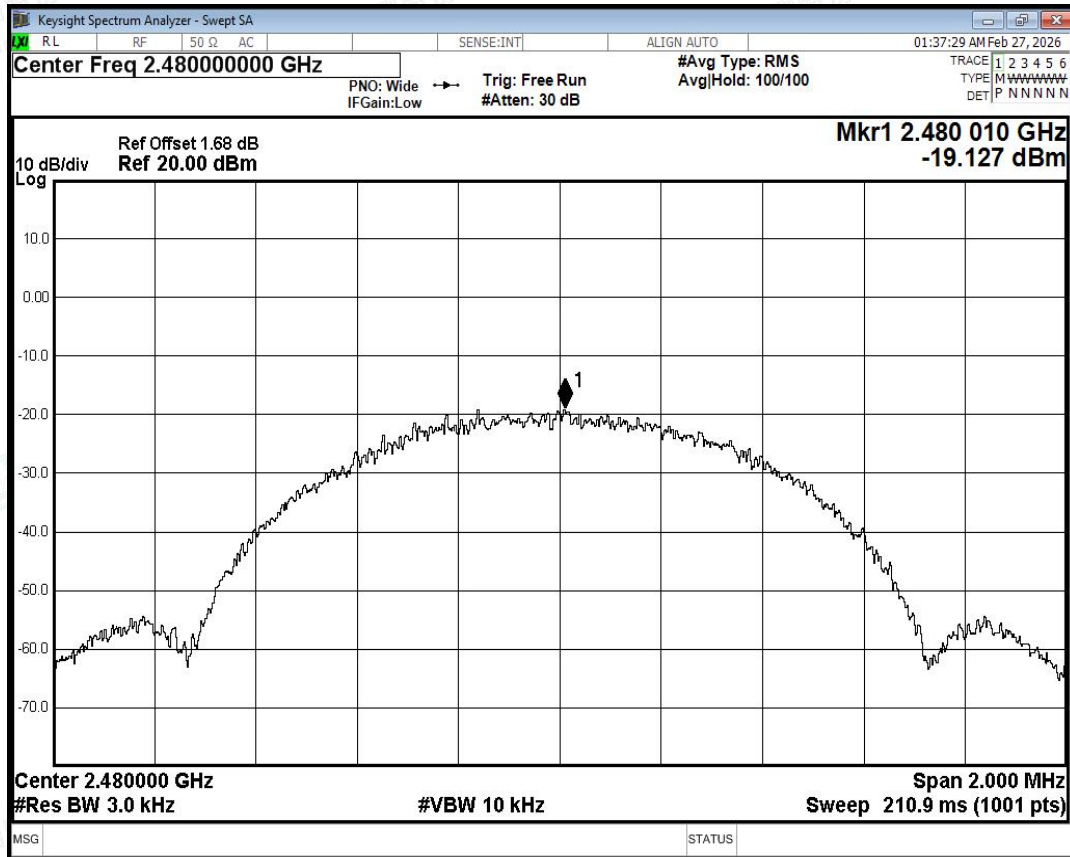
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PSD NVNT BLE 1M 2440MHz Ant1



PSD NVNT BLE 1M 2480MHz Ant1

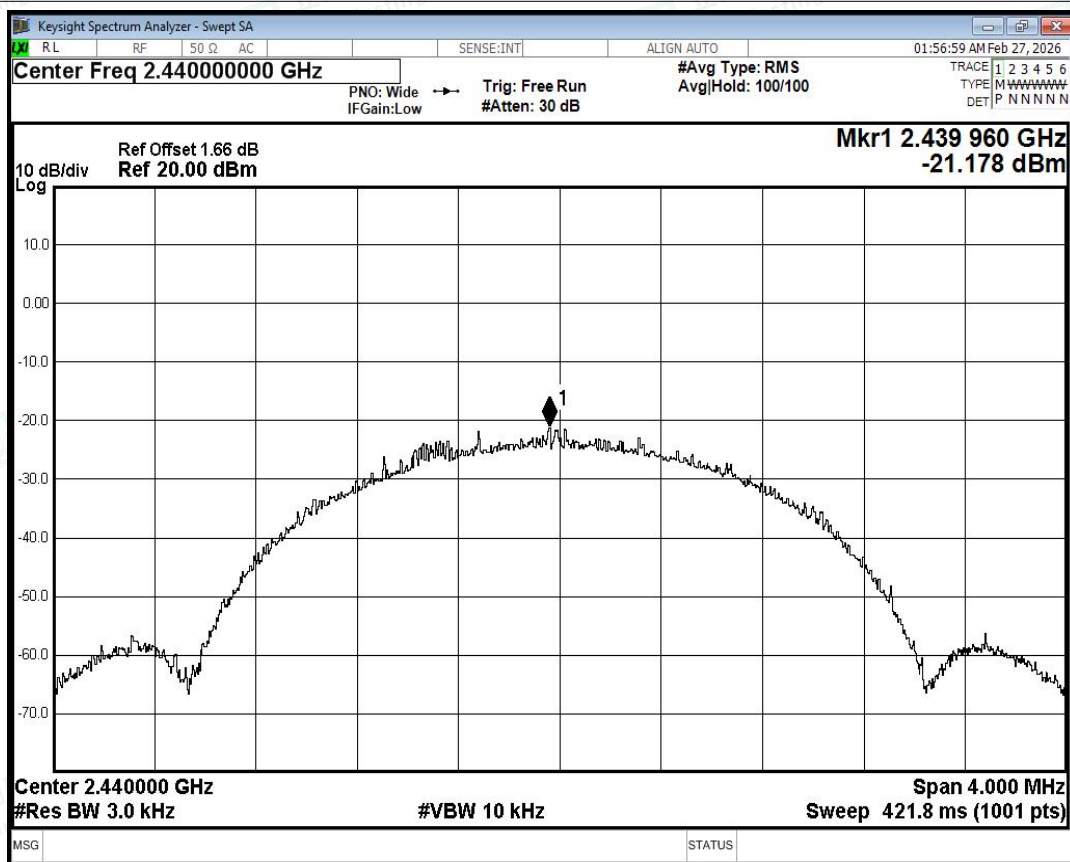
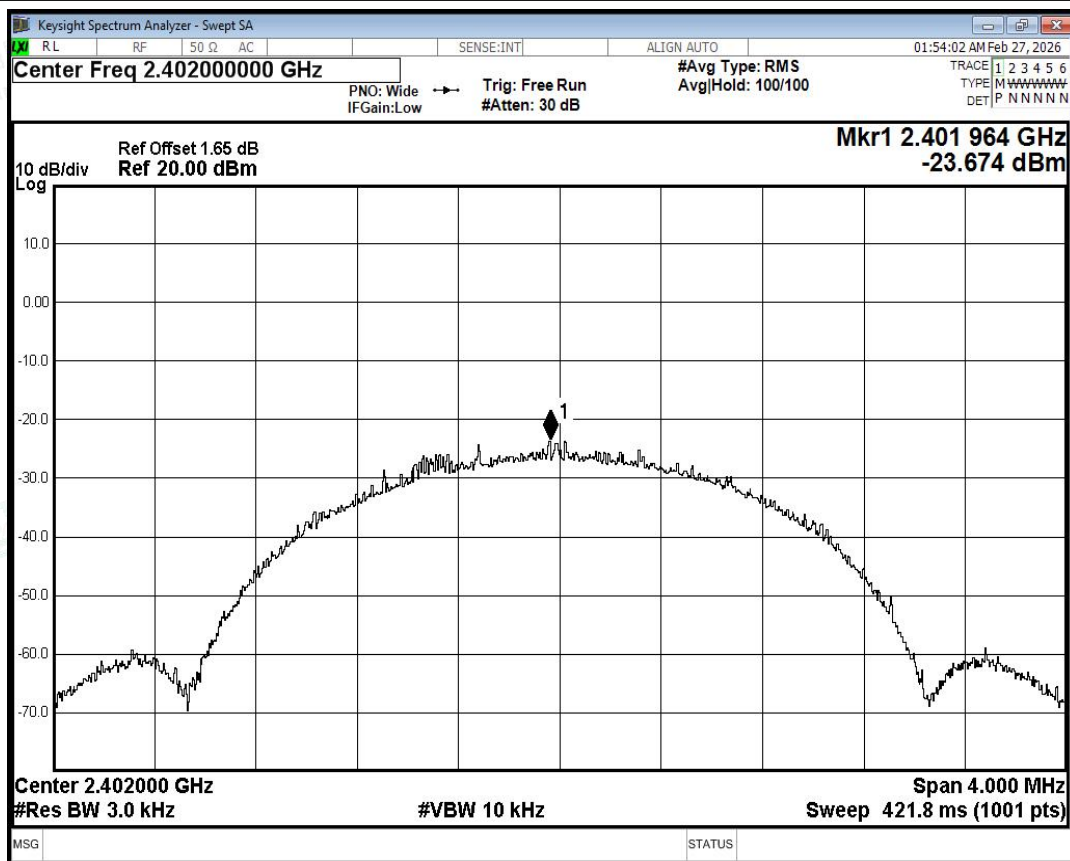


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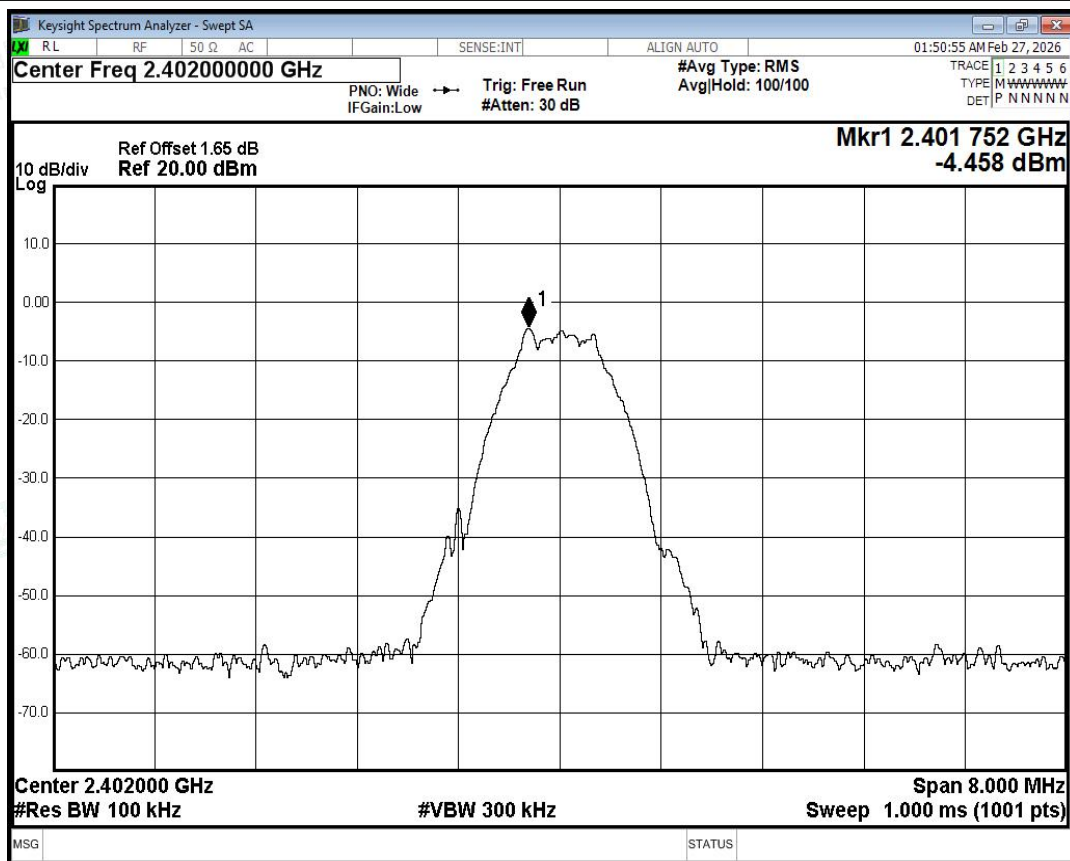
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518000, China
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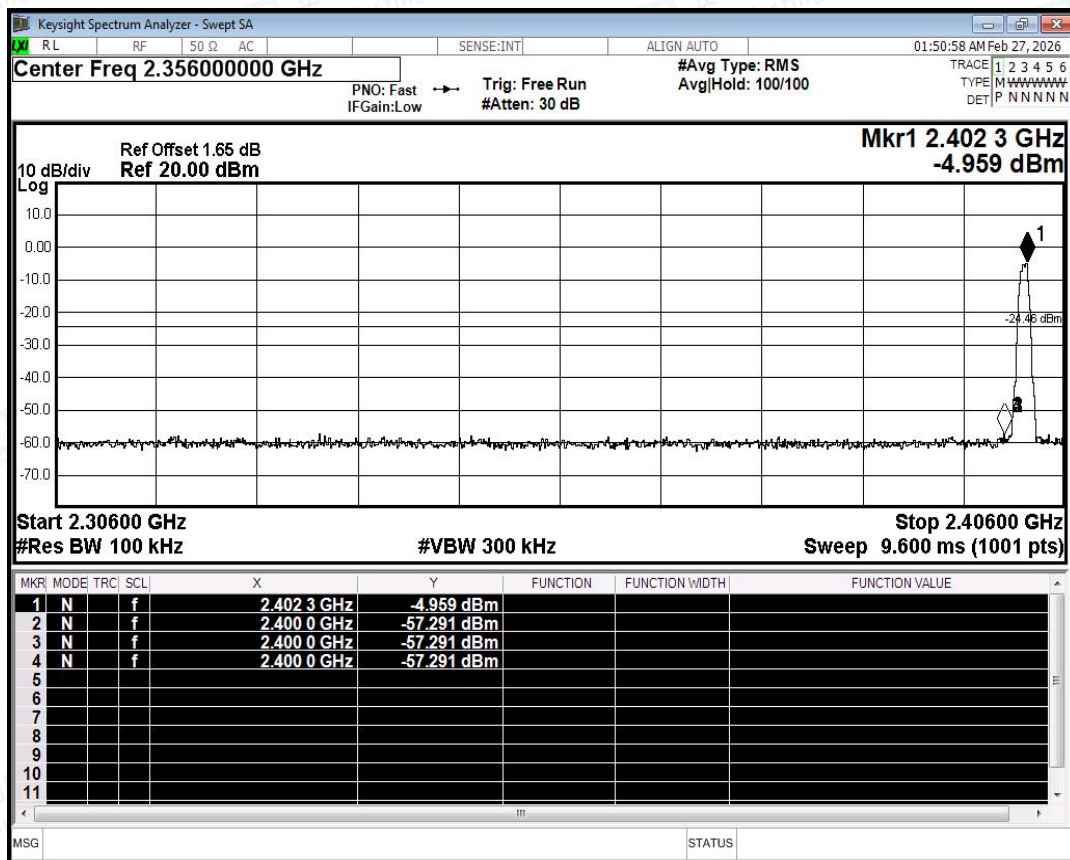
B.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-52.83	-20	Pass
NVNT	BLE 1M	2480	Ant1	-54.13	-20	Pass
NVNT	BLE 2M	2402	Ant1	-44.96	-20	Pass
NVNT	BLE 2M	2480	Ant1	-53.47	-20	Pass





Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



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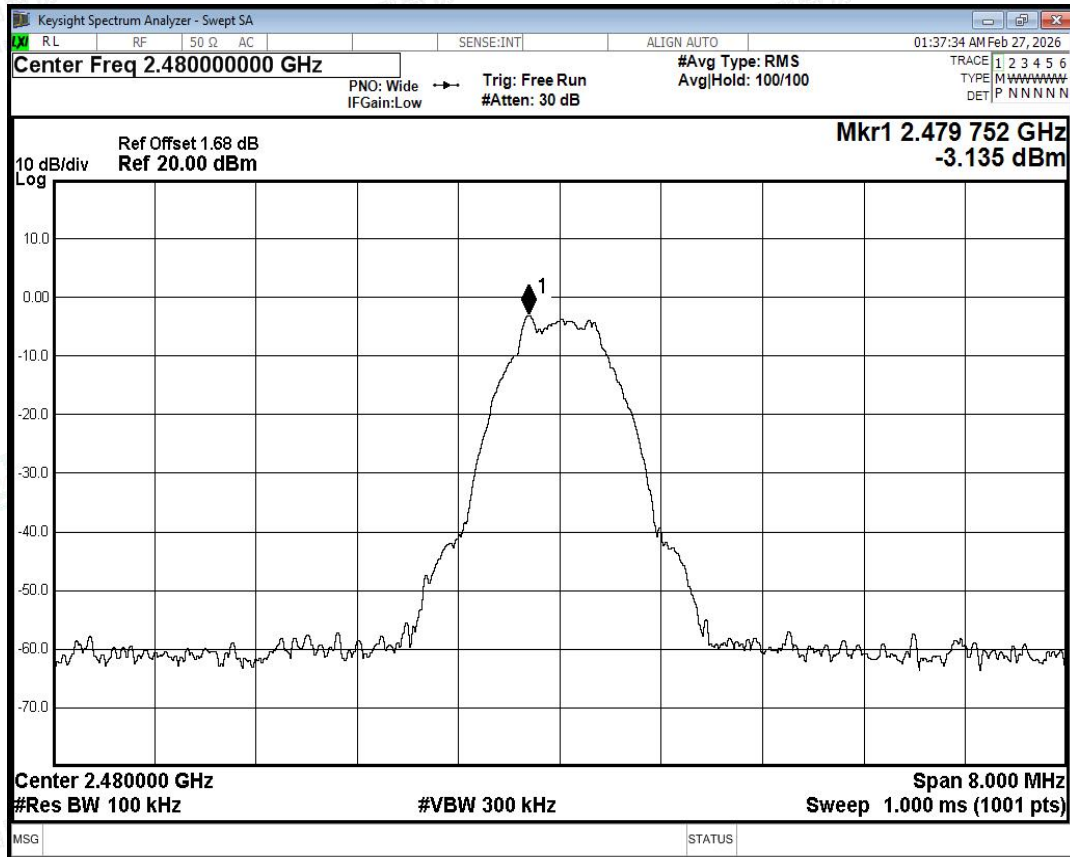
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Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



Band Edge NVNT BLE 1M 2480MHz Ant1 Ref

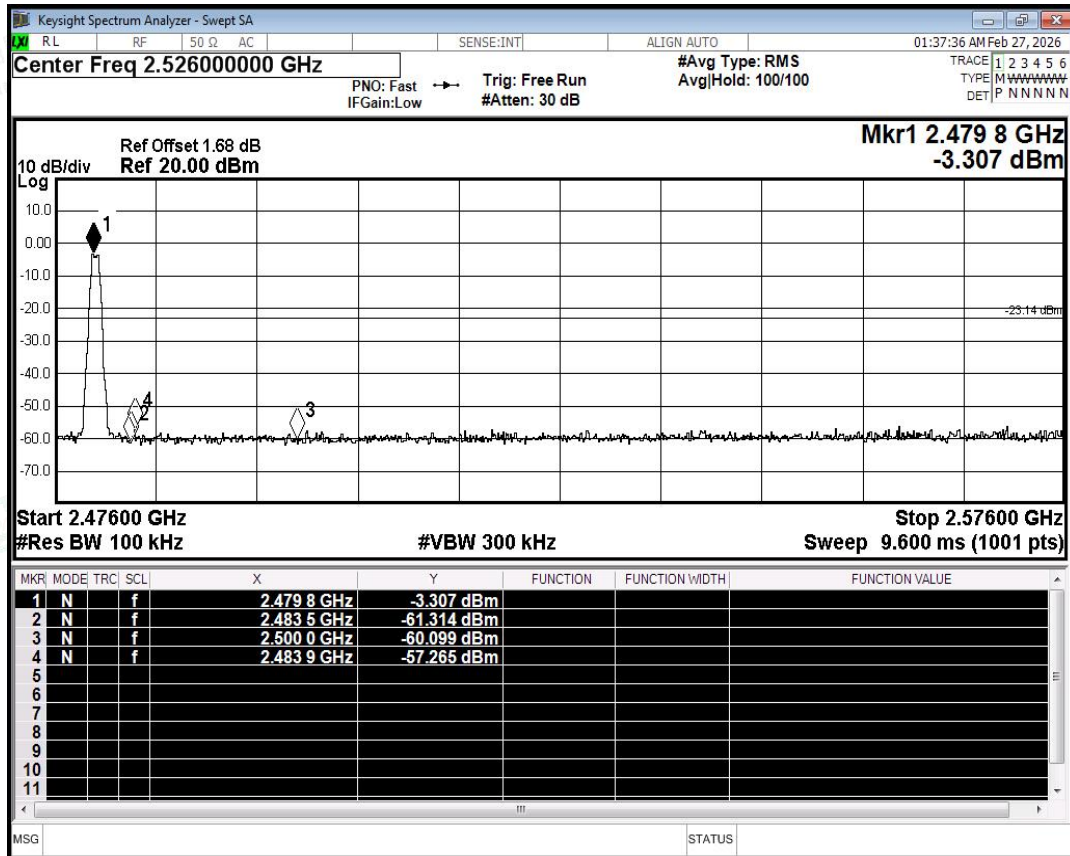


Shenzhen LCS Compliance Testing Laboratory Ltd.

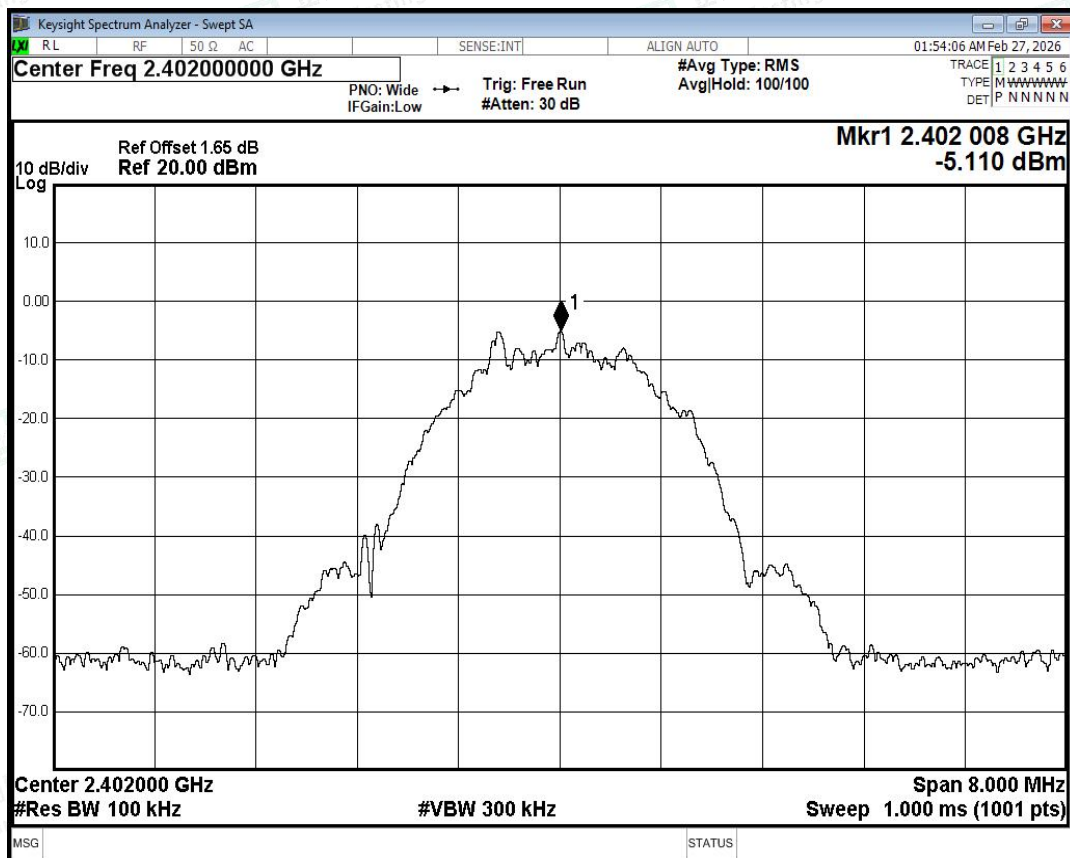
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Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



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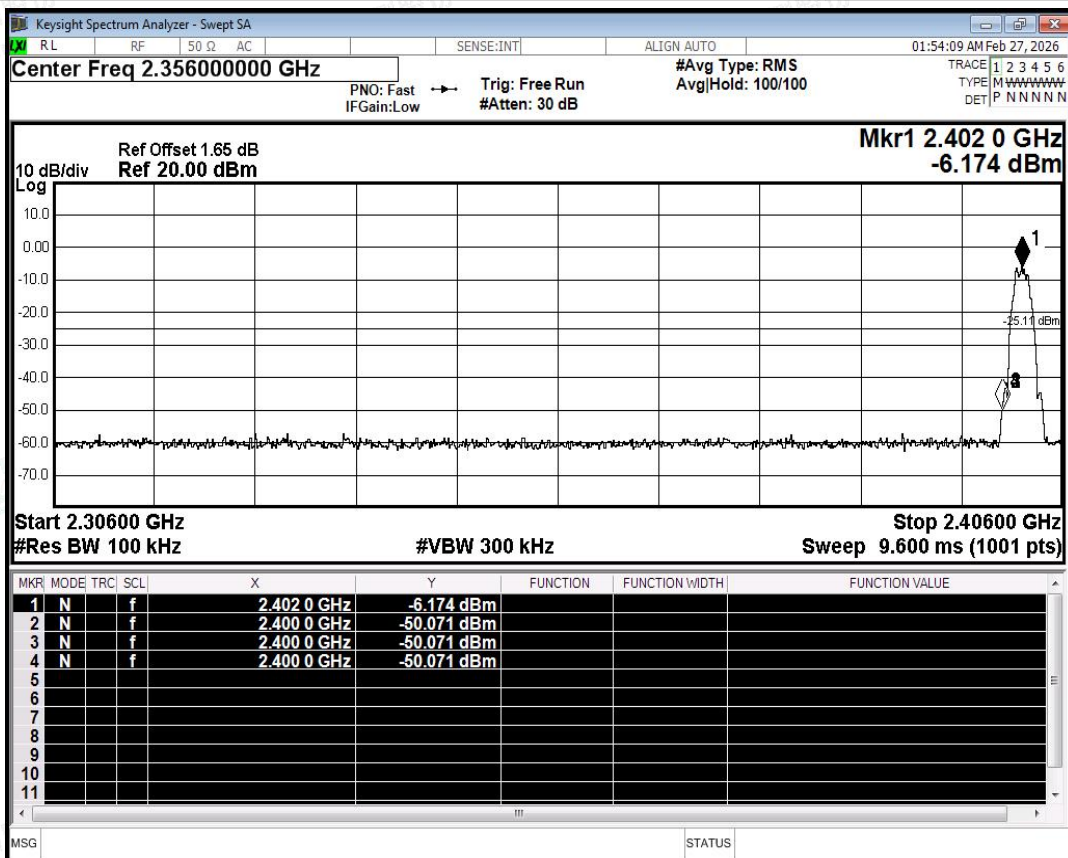
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Band Edge NVNT BLE 2M 2402MHz Ant1 Ref



Band Edge NVNT BLE 2M 2402MHz Ant1 Emission

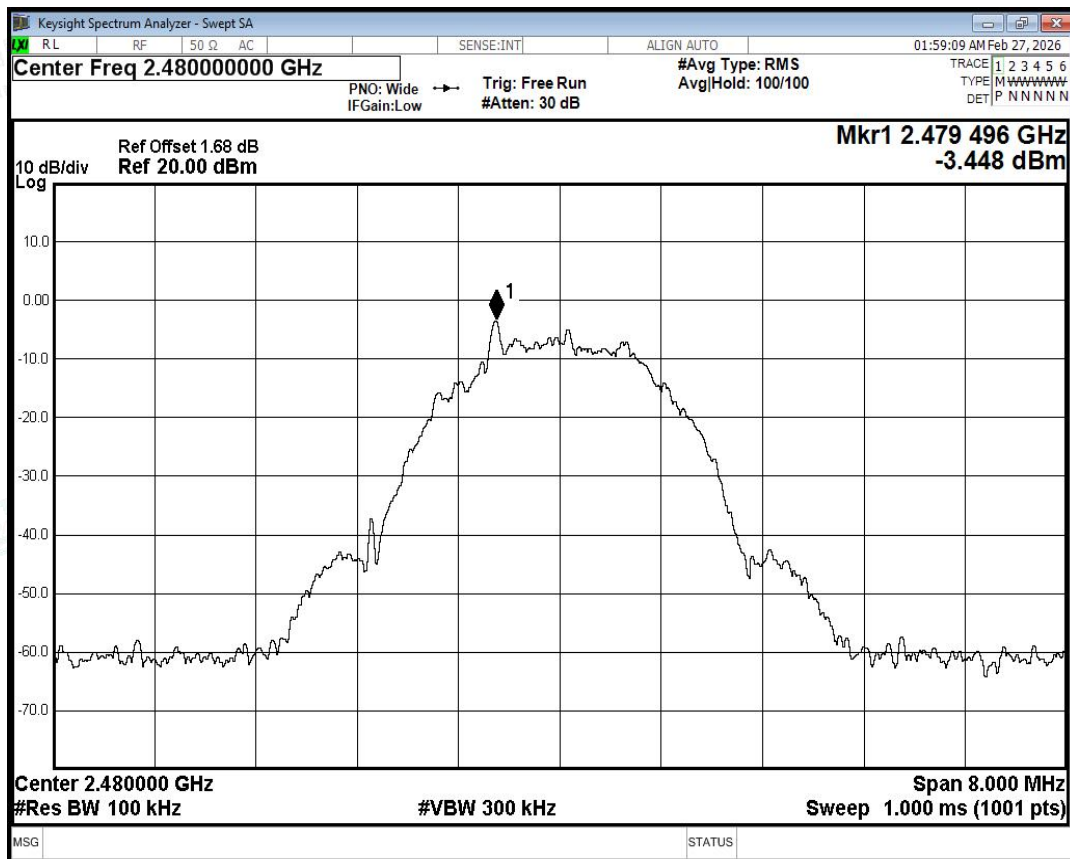


Shenzhen LCS Compliance Testing Laboratory Ltd.

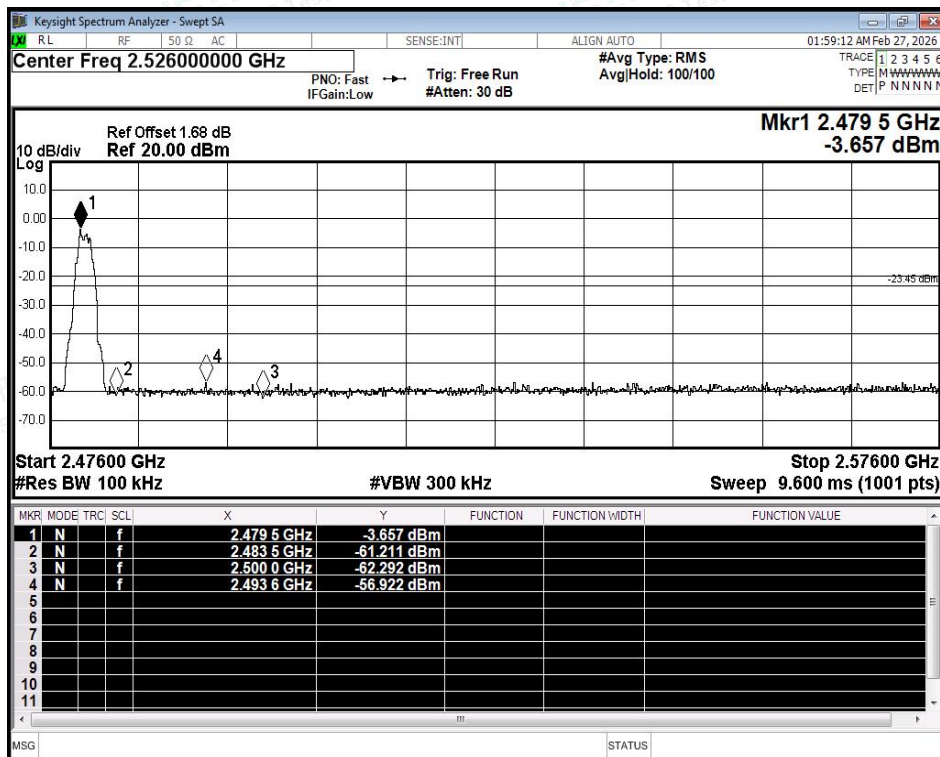
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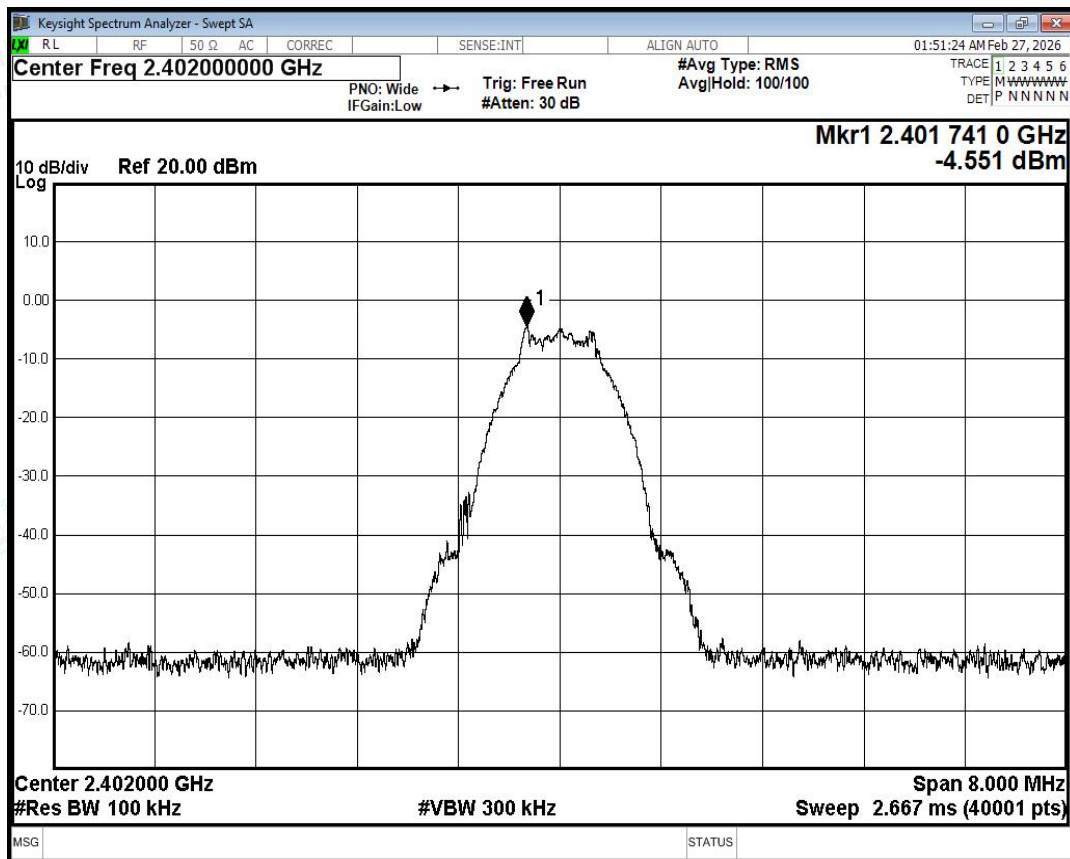
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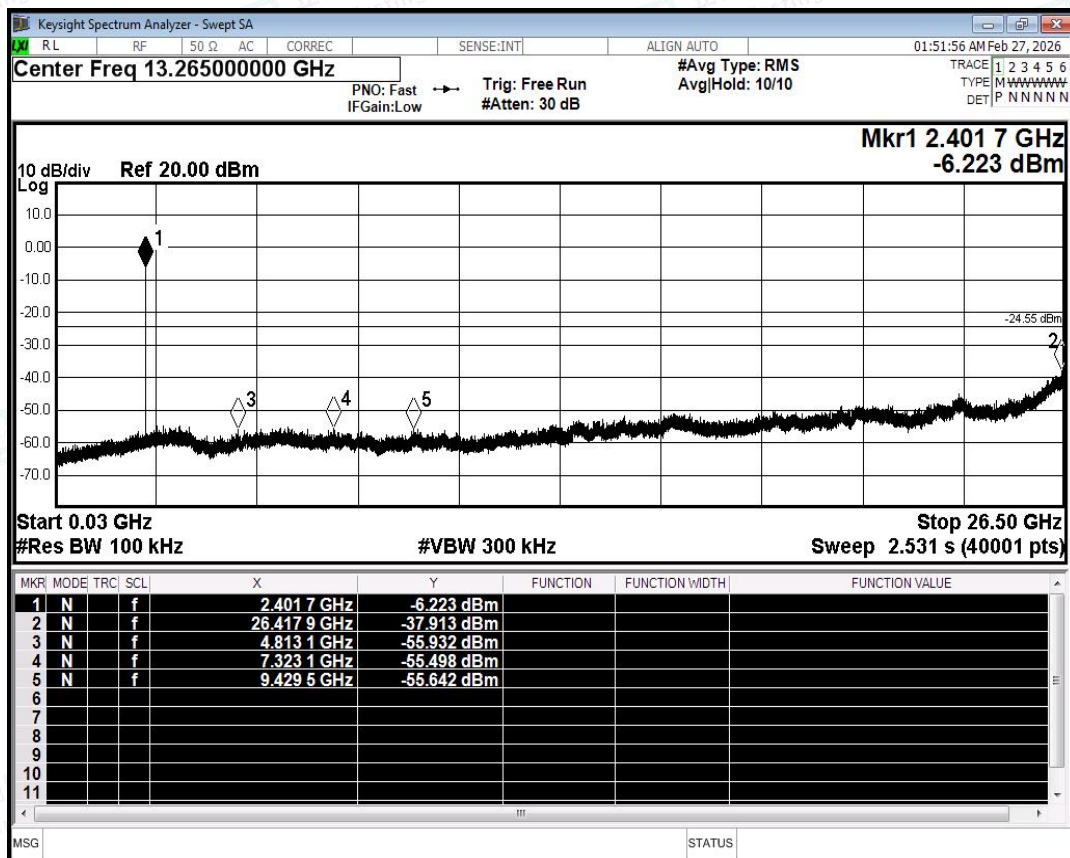
B.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-33.36	-20	Pass
NVNT	BLE 1M	2440	Ant1	-36.5	-20	Pass
NVNT	BLE 1M	2480	Ant1	-34.12	-20	Pass
NVNT	BLE 2M	2402	Ant1	-42.02	-20	Pass
NVNT	BLE 2M	2440	Ant1	-45.07	-20	Pass
NVNT	BLE 2M	2480	Ant1	-42.69	-20	Pass





Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



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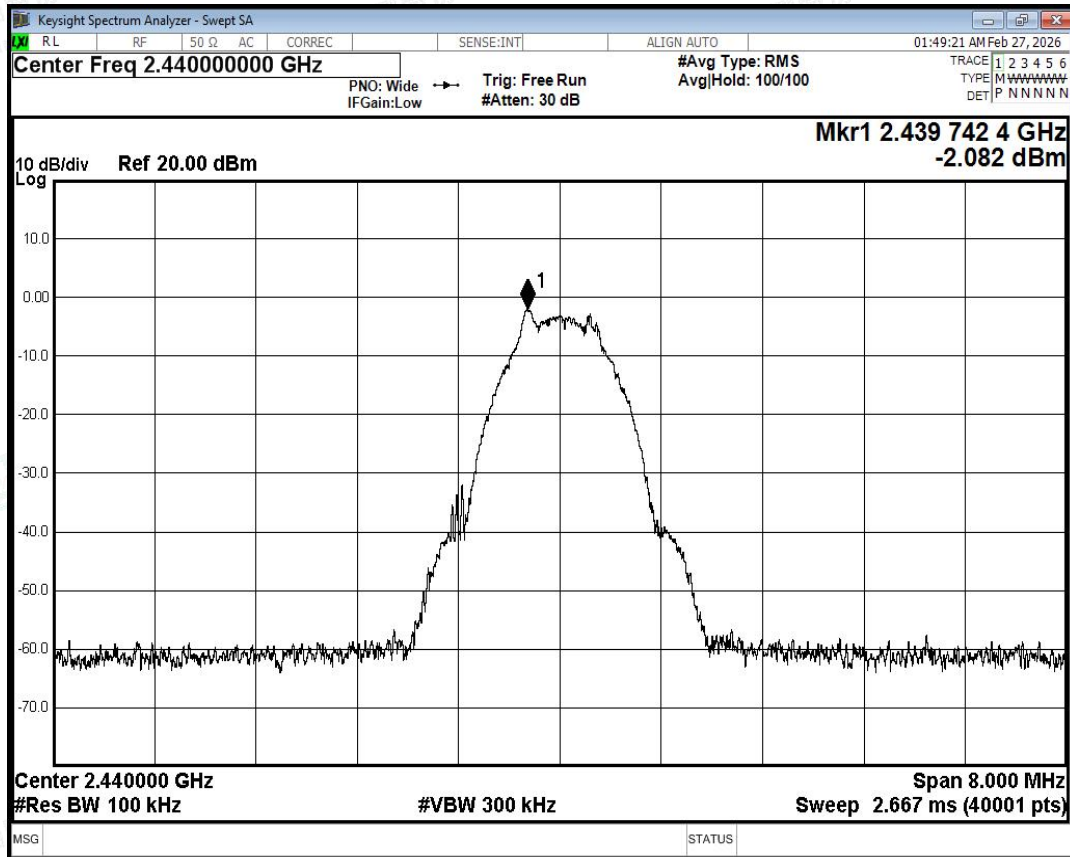
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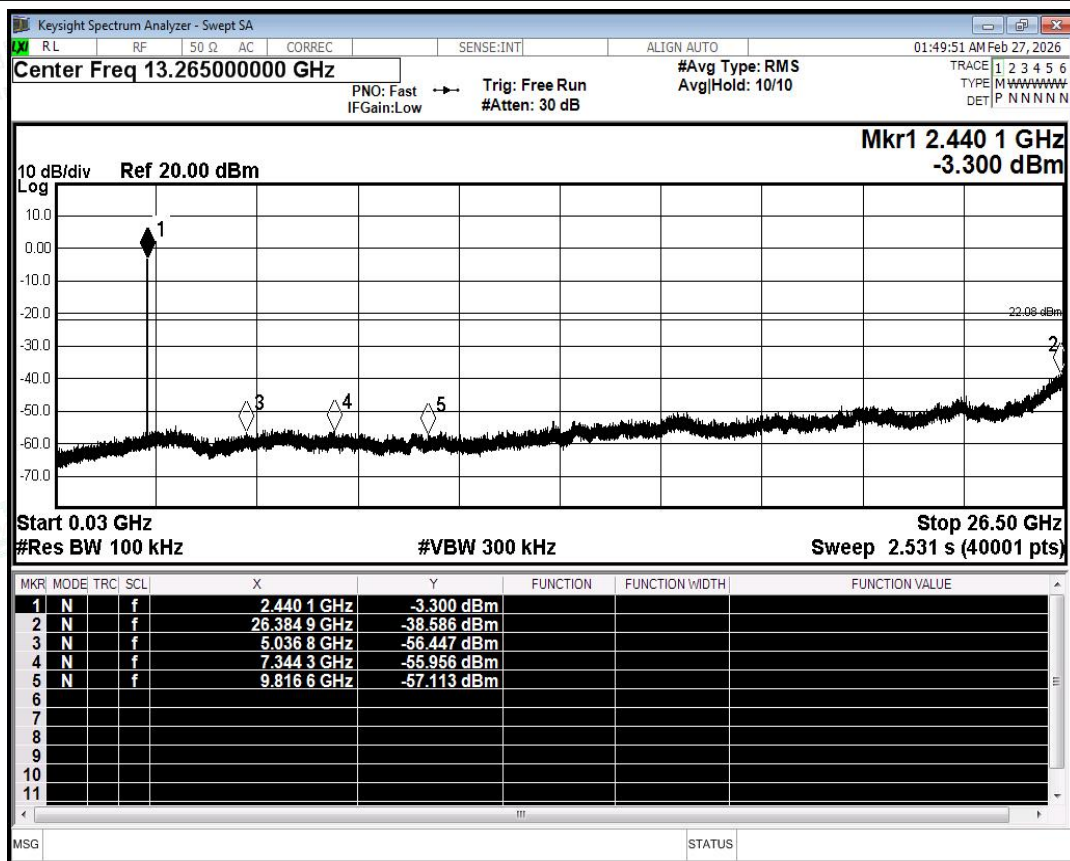


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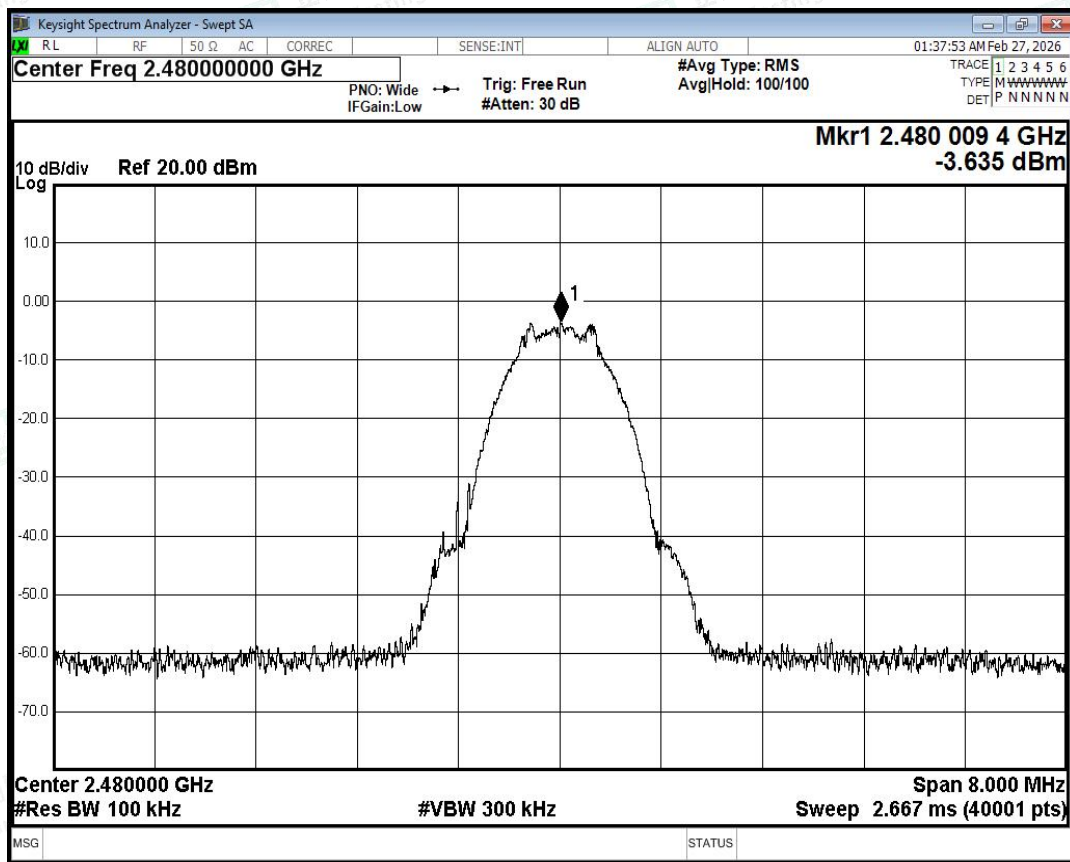
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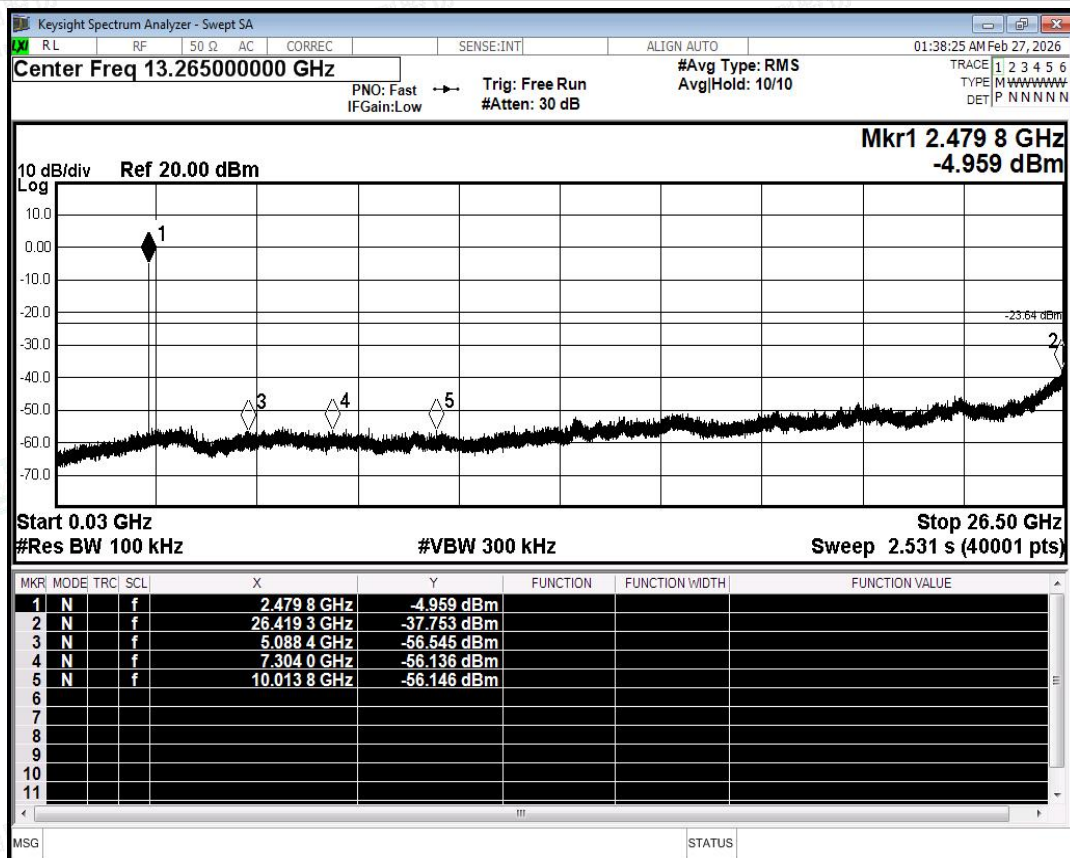
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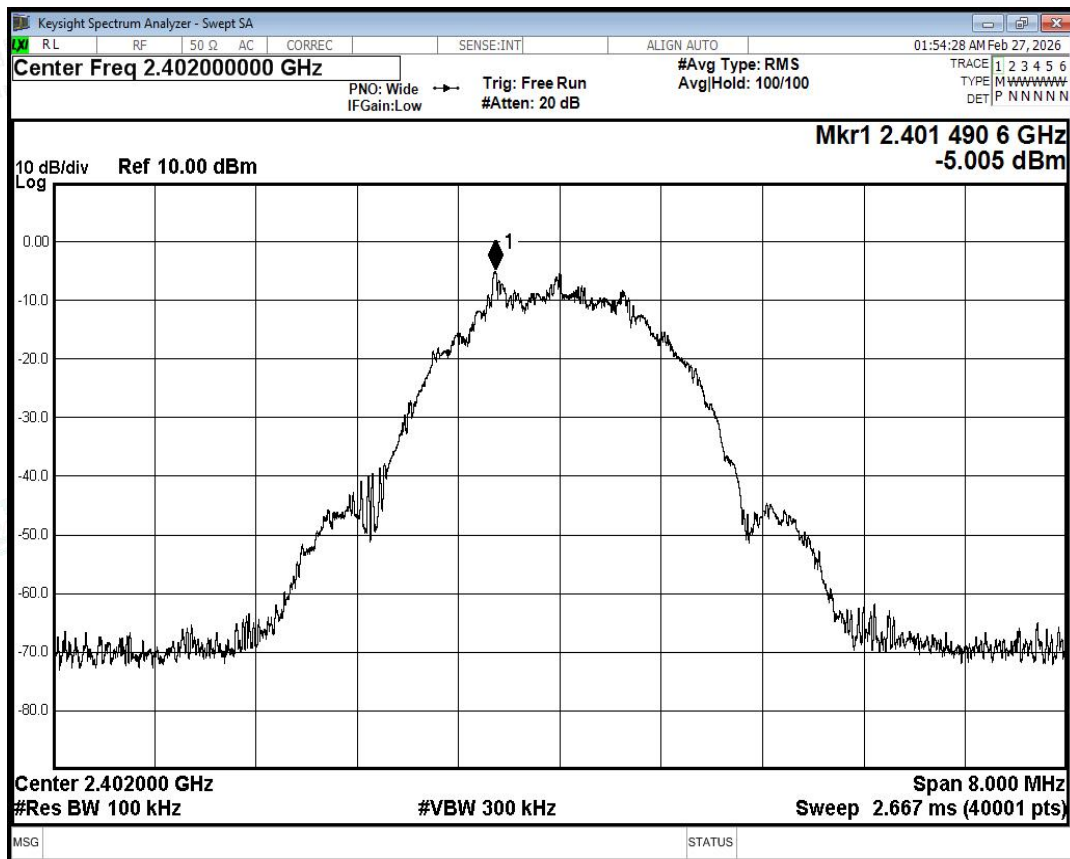


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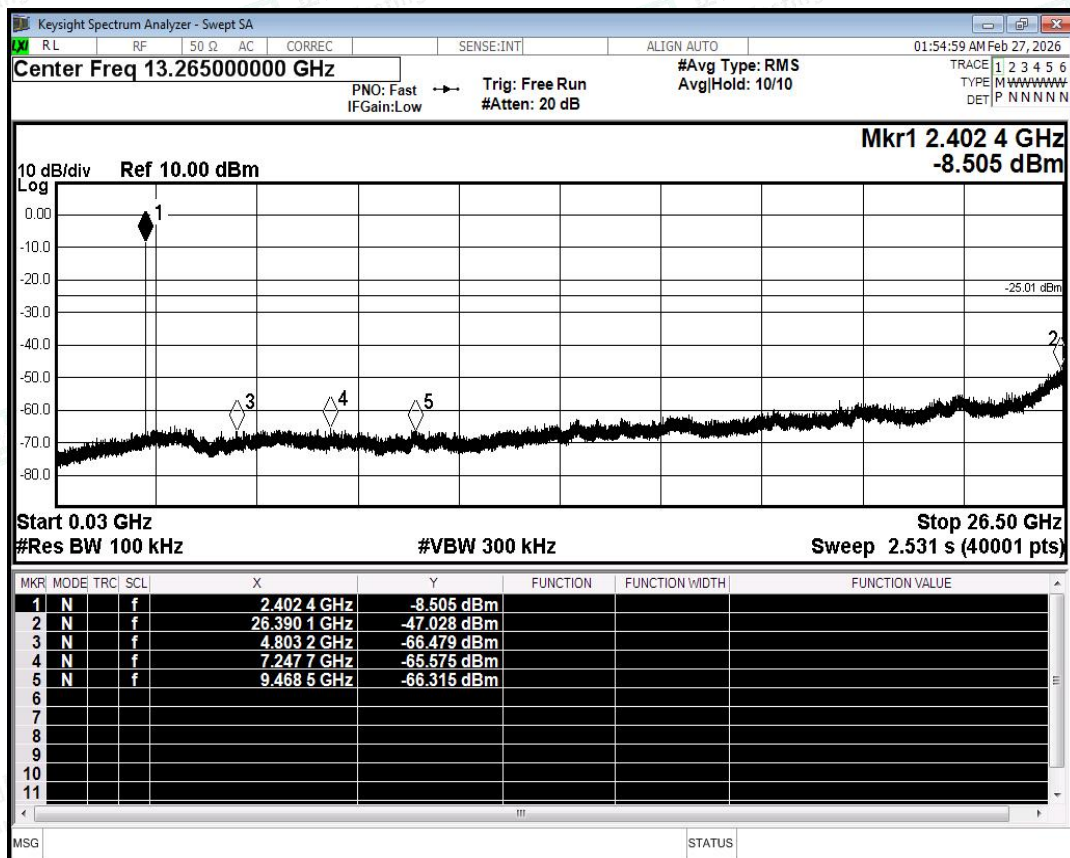
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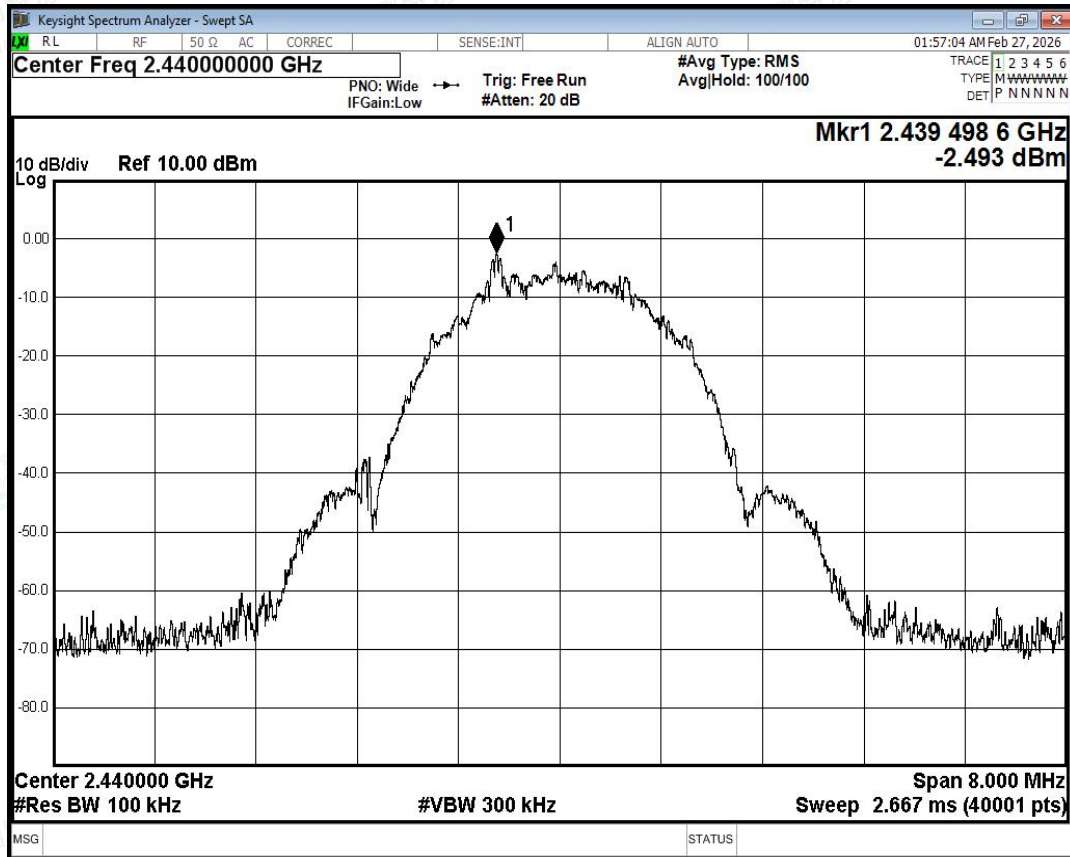
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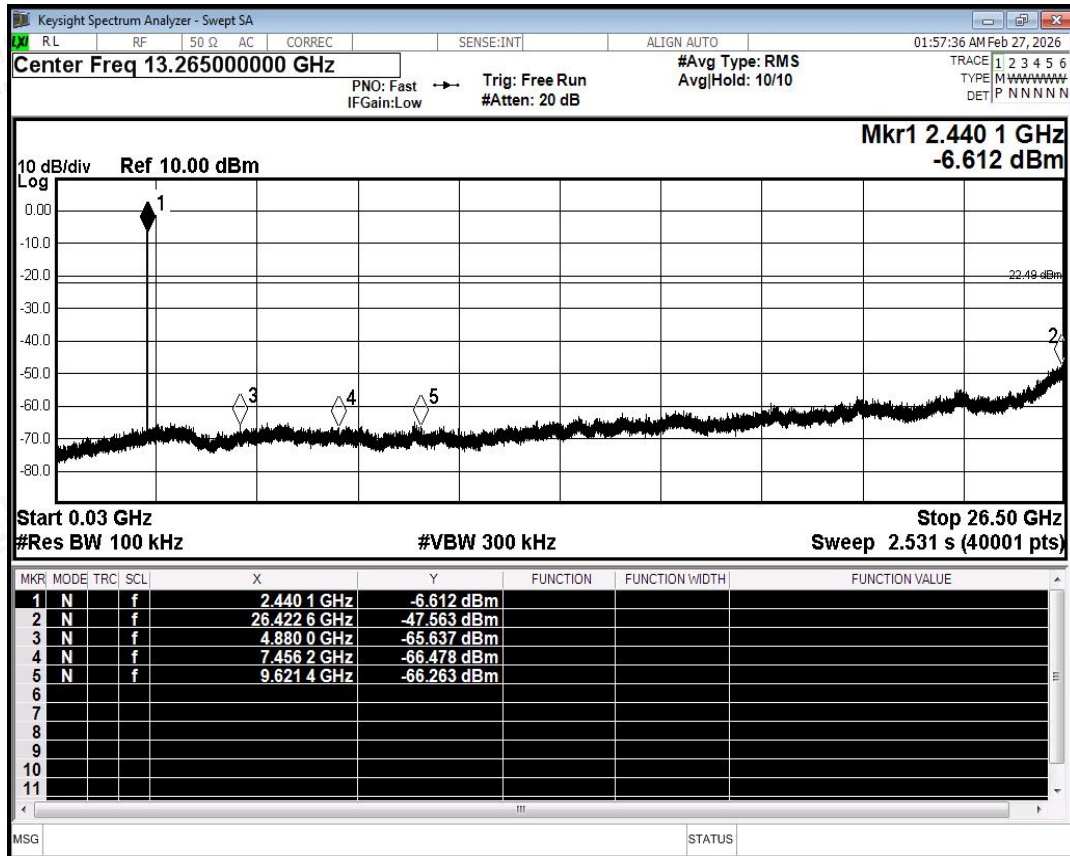


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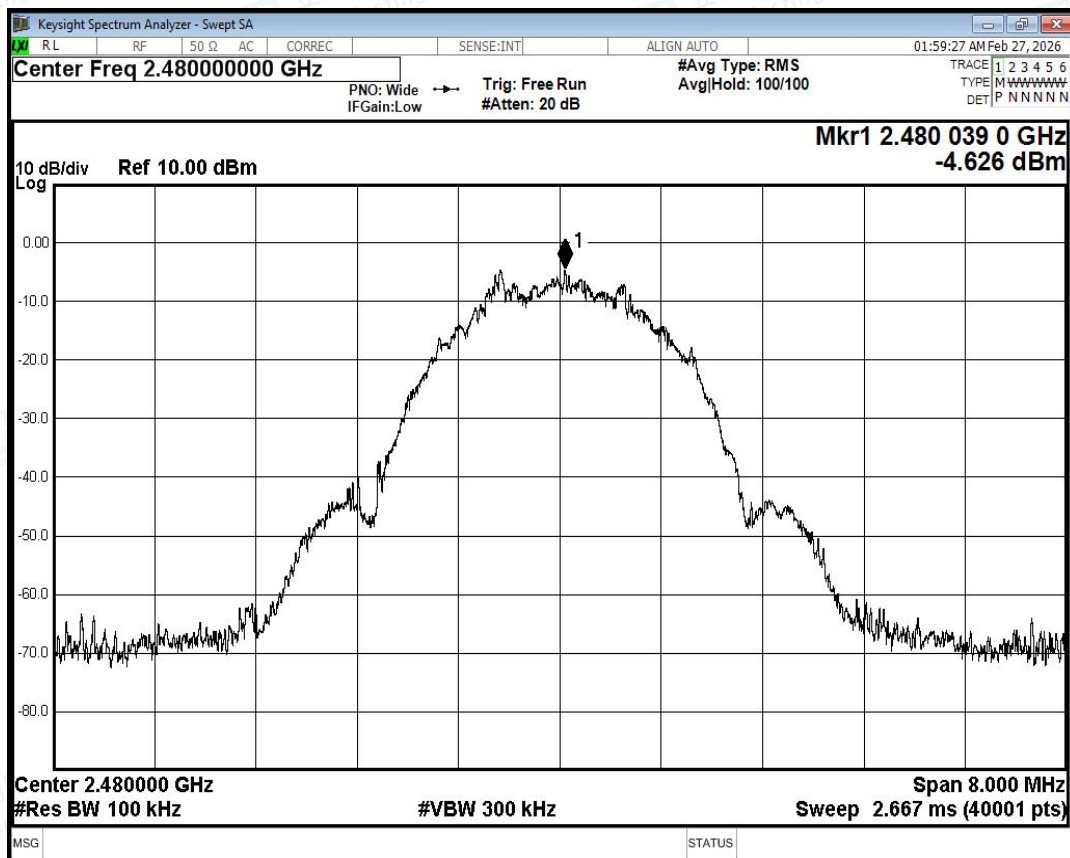
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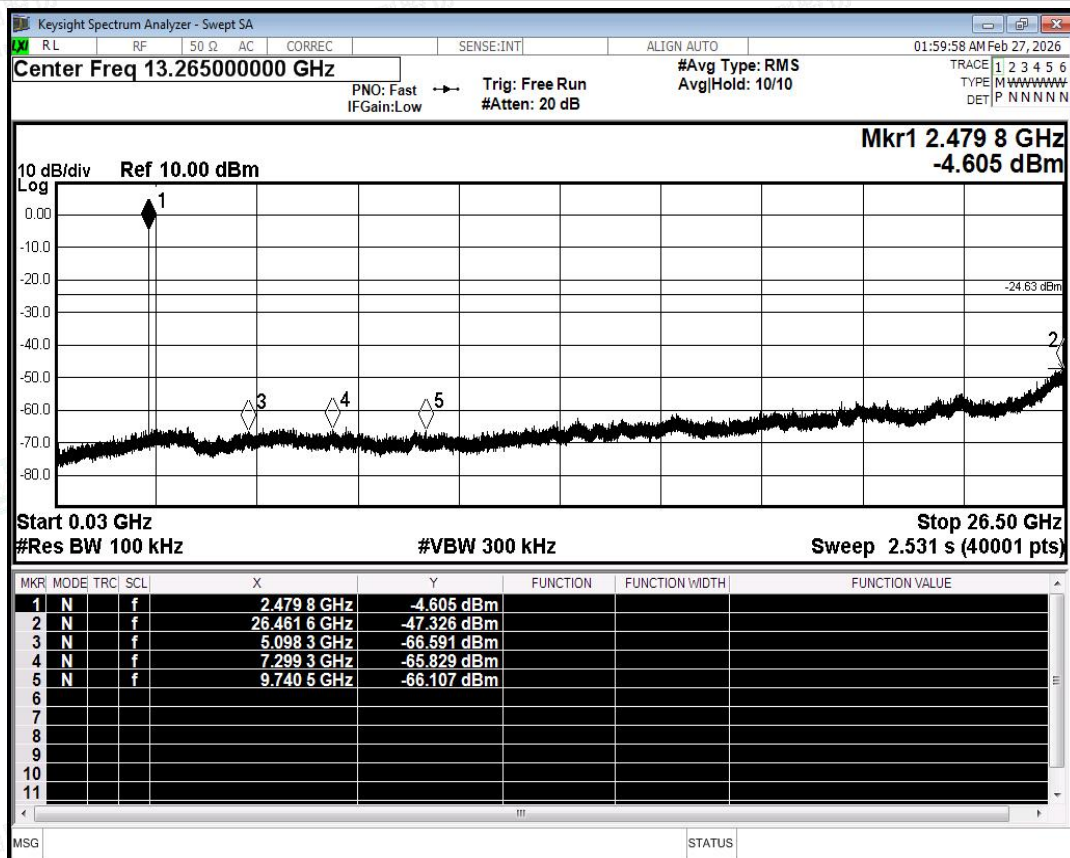


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Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Emission



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B.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	87.39	0.59	0.61
NVNT	BLE 1M	2440	Ant1	87.36	0.59	0.61
NVNT	BLE 1M	2480	Ant1	87.39	0.59	0.61
NVNT	BLE 2M	2402	Ant1	65.93	1.81	1.21
NVNT	BLE 2M	2440	Ant1	65.96	1.81	1.21
NVNT	BLE 2M	2480	Ant1	65.96	1.81	1.21

