



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: CART

Test Model: 900.0025.01

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng



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B.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.716	≥ 0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.694	≥ 0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.71	≥ 0.5	Pass



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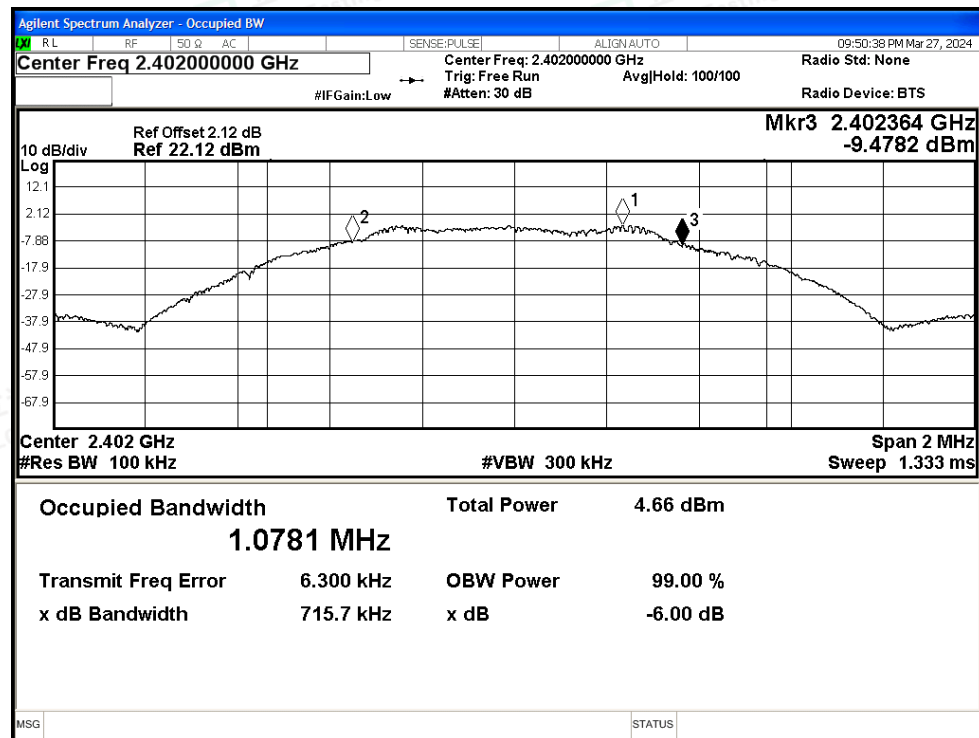
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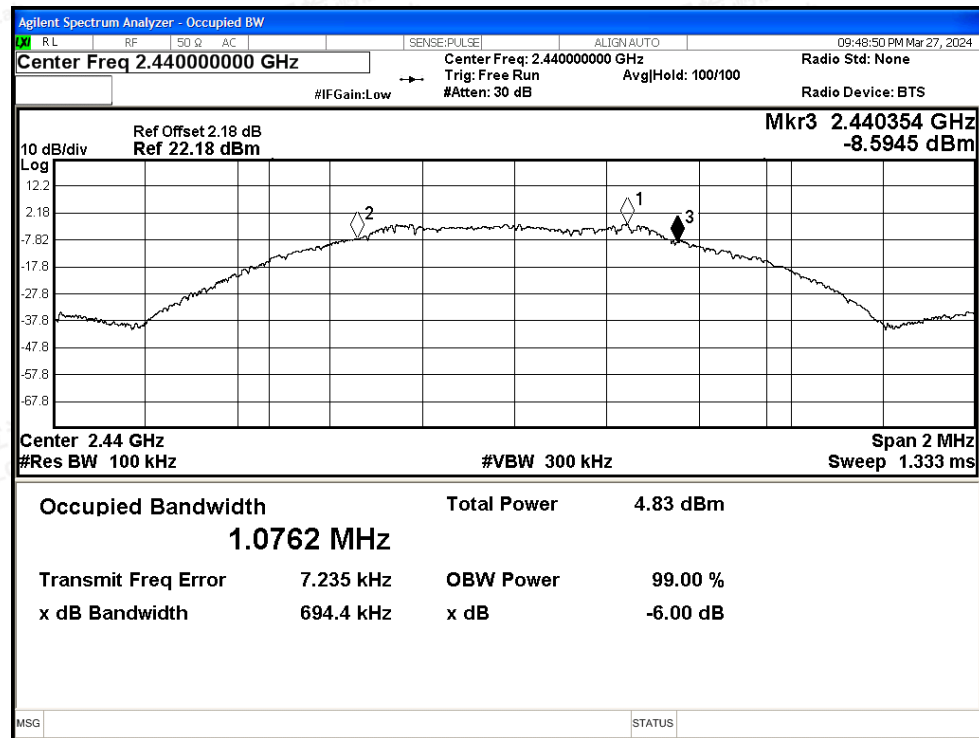


Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1

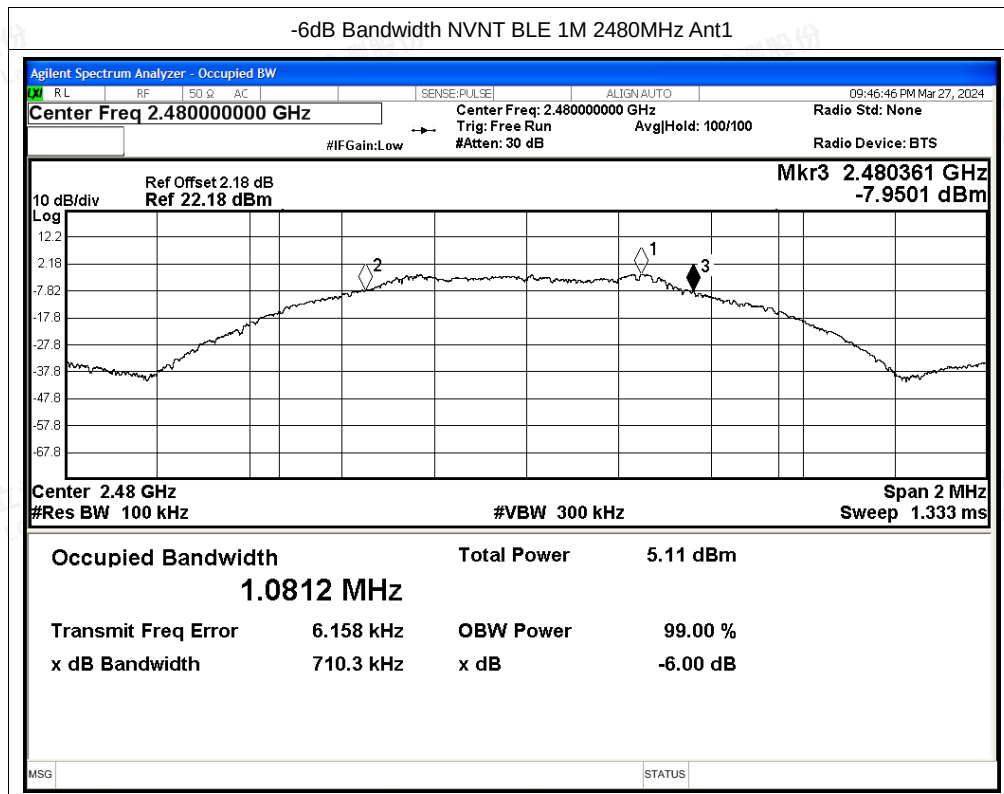


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B.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-1.02	30	Pass
NVNT	BLE 1M	2440	Ant1	-0.81	30	Pass
NVNT	BLE 1M	2480	Ant1	-0.58	30	Pass



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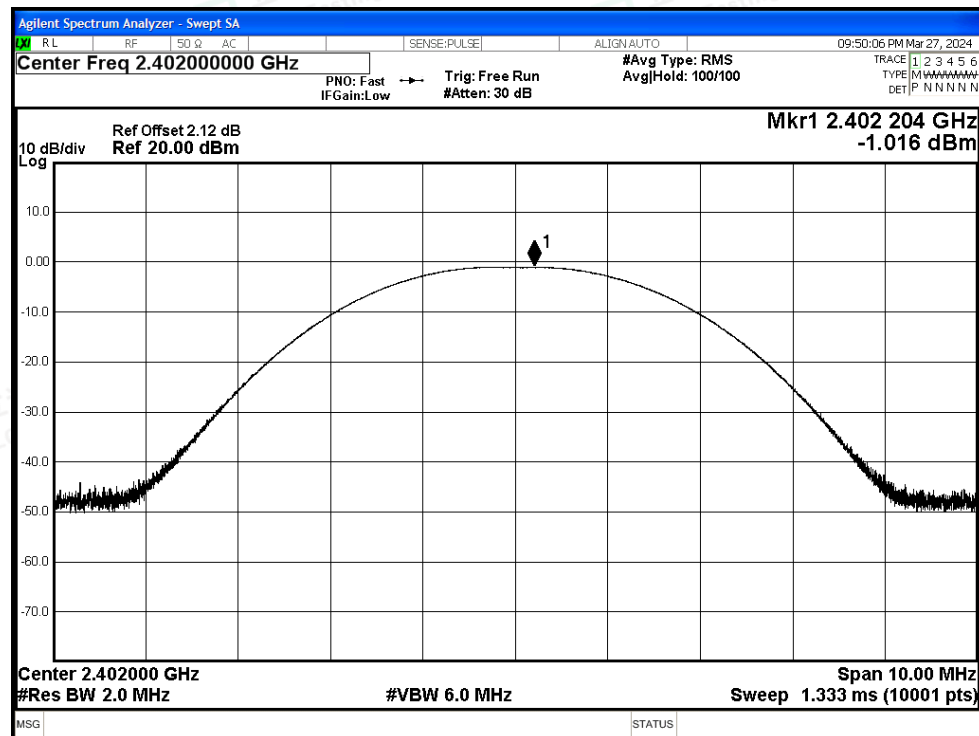
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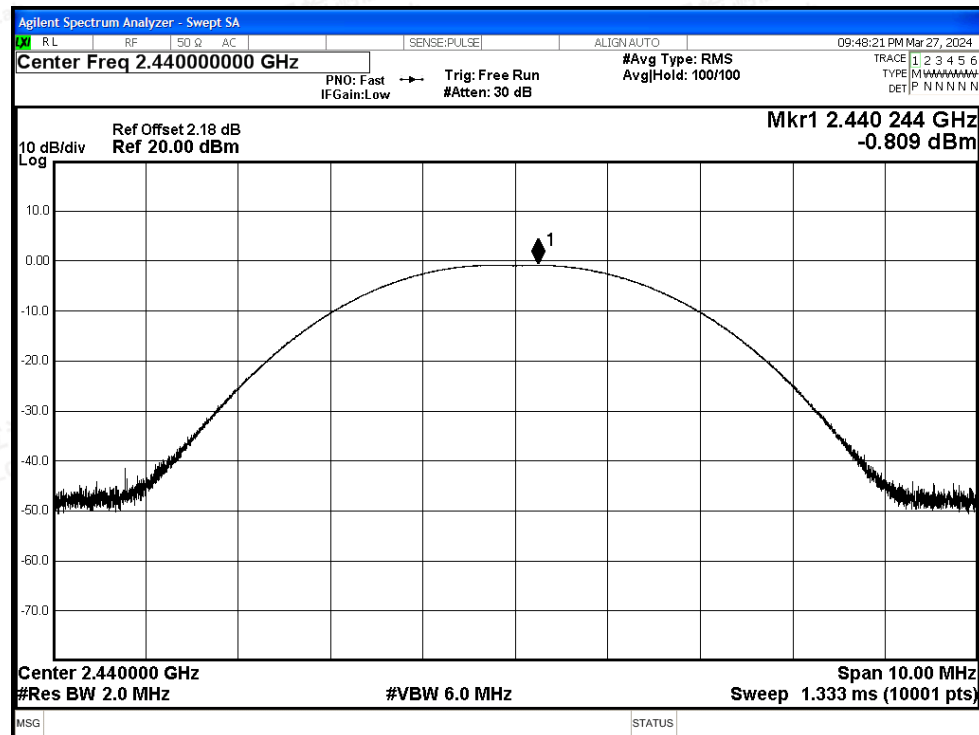


Test Graphs

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1

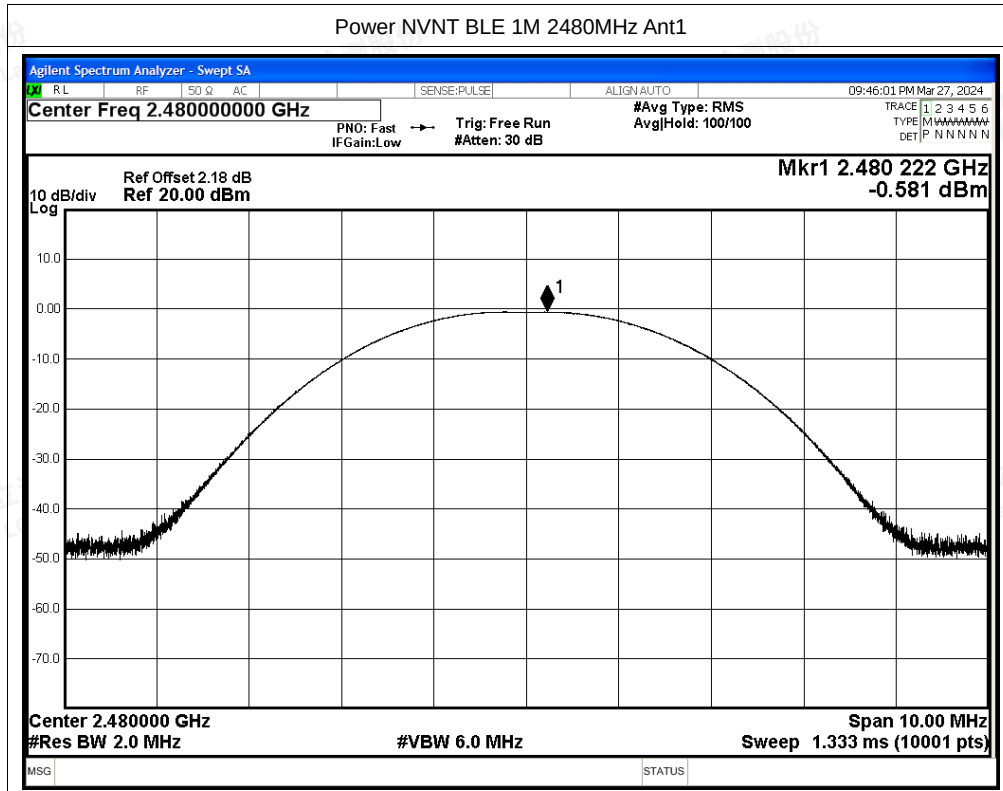


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B.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-16.59	8	Pass
NVNT	BLE 1M	2440	Ant1	-16	8	Pass
NVNT	BLE 1M	2480	Ant1	-16.74	8	Pass



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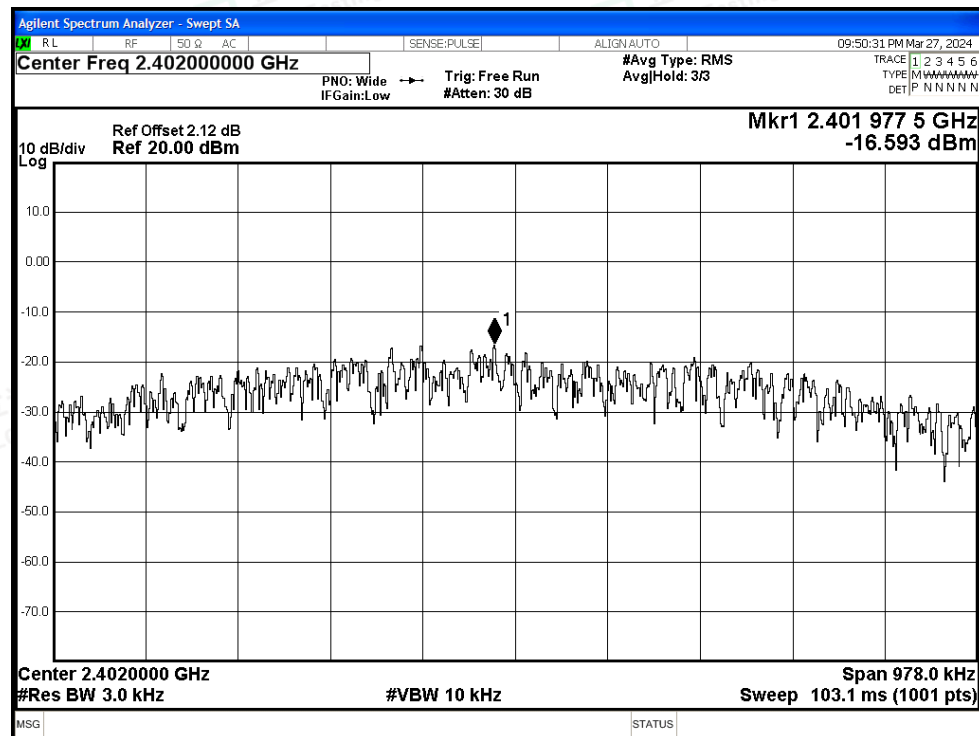
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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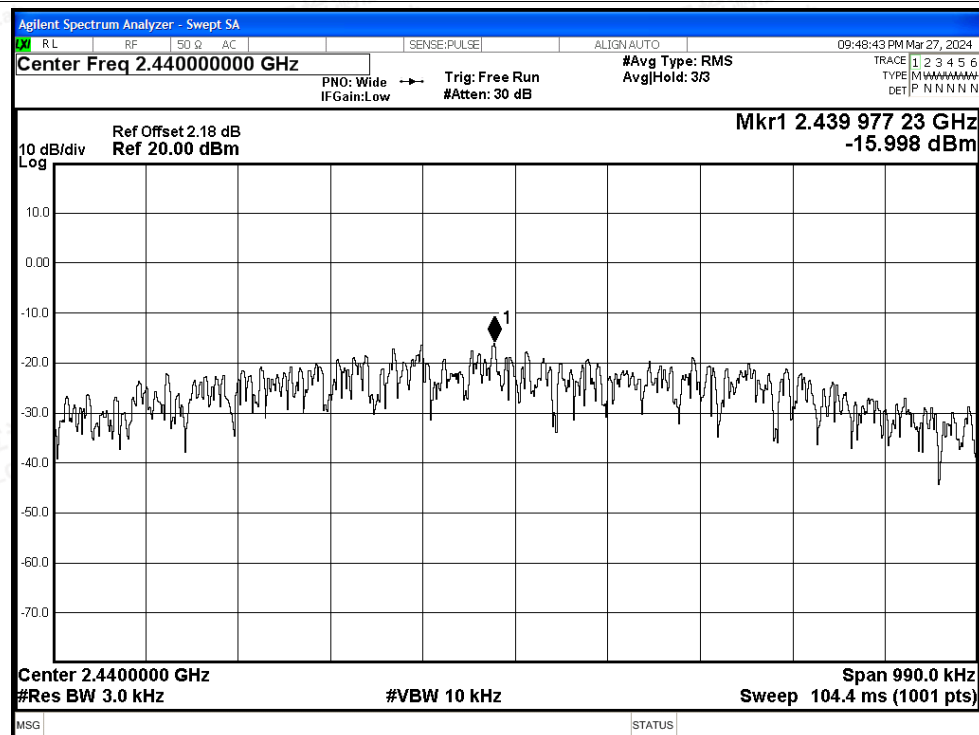


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1

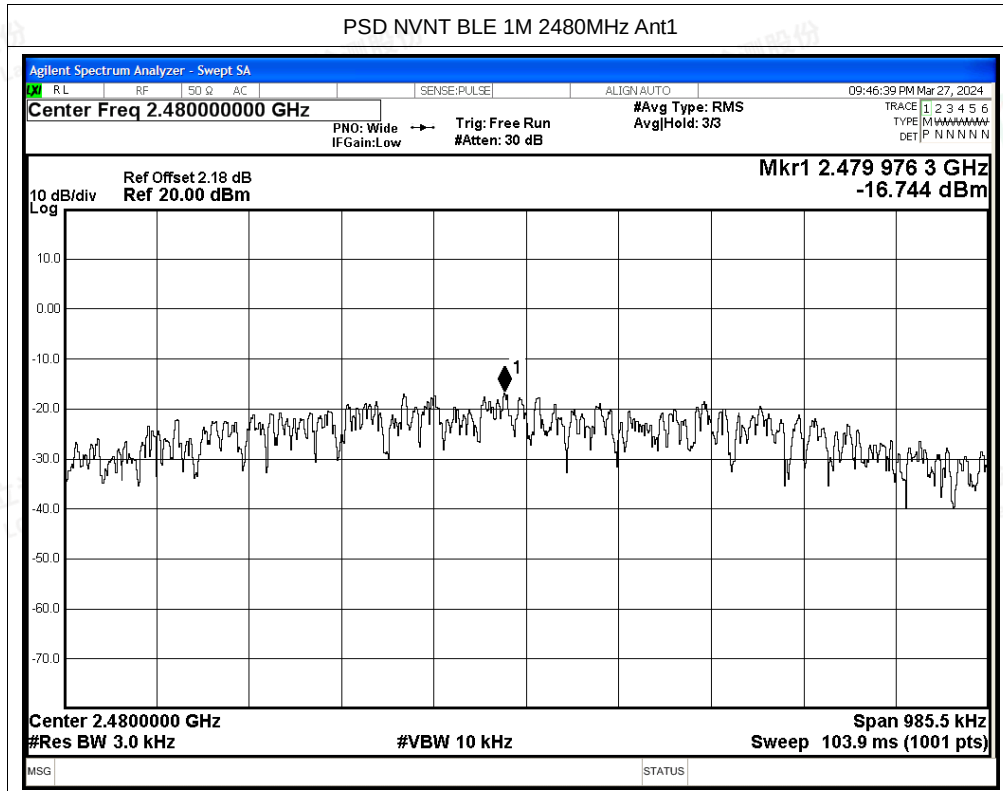


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B.4 Band Edge

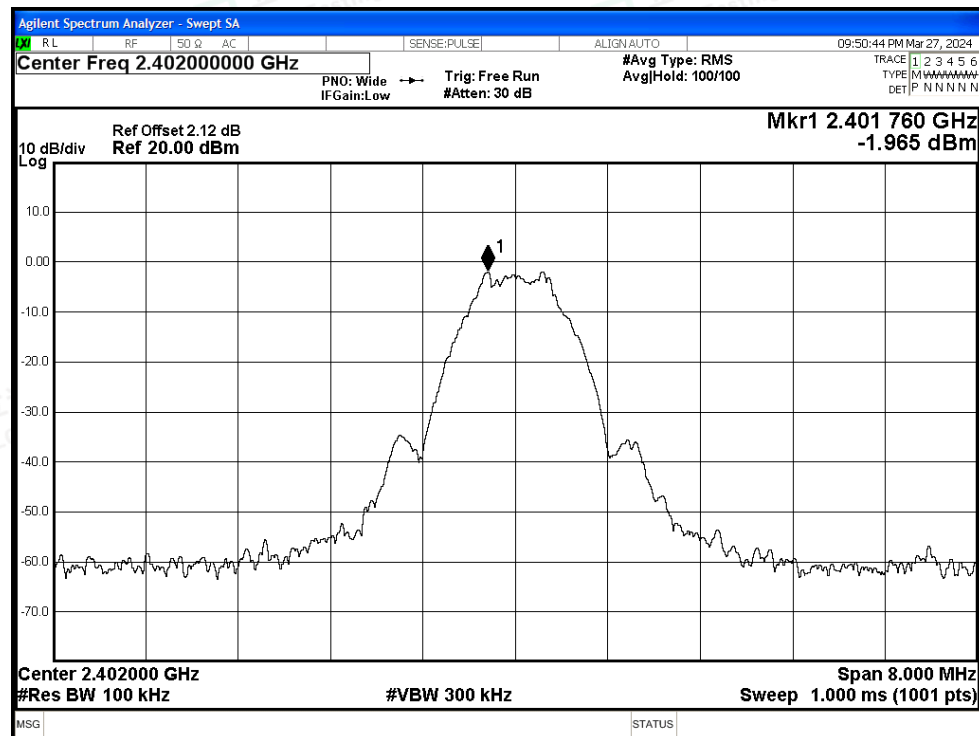
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-54.66	-20	Pass
NVNT	BLE 1M	2480	Ant1	-55.91	-20	Pass



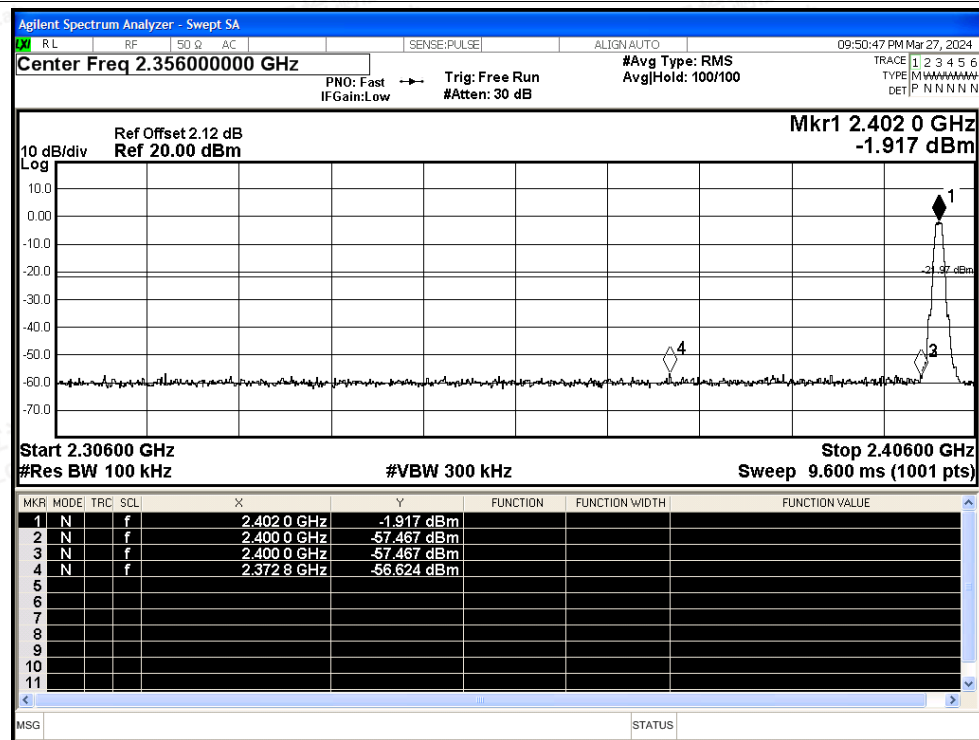


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



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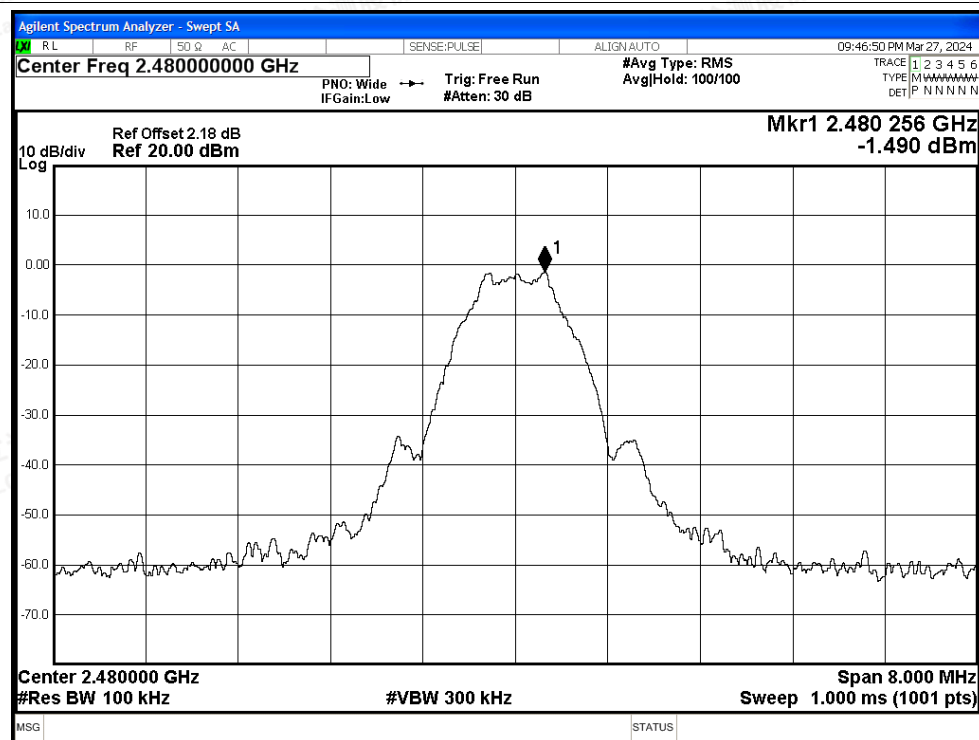
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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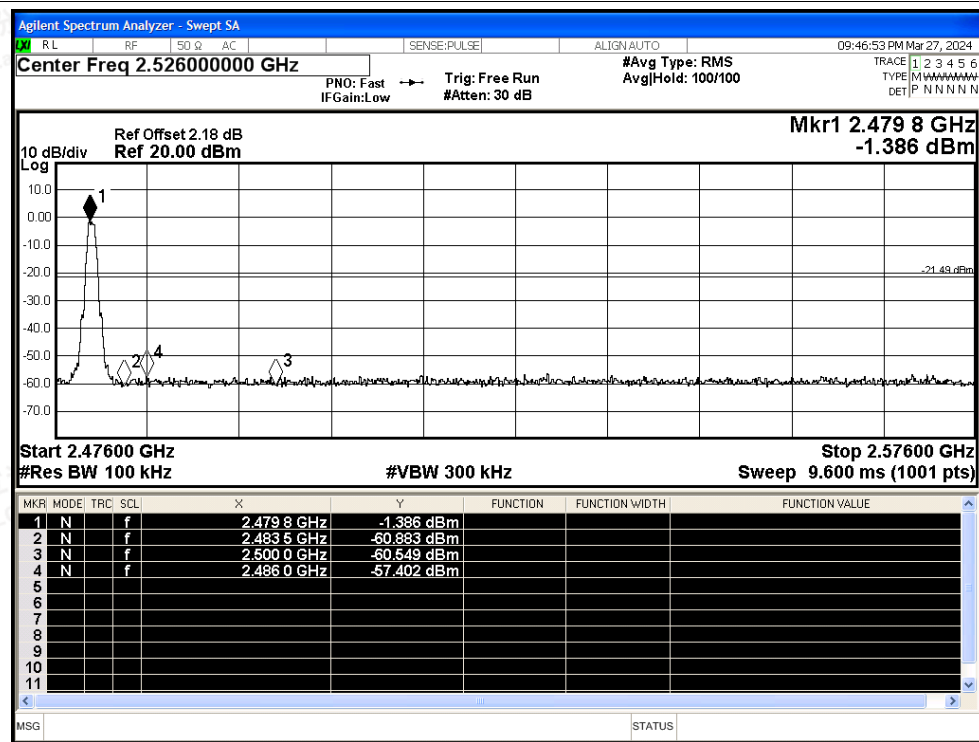
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Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



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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	-53.67	-20	Pass
NVNT	BLE 1M	2440	Ant1	-53.62	-20	Pass
NVNT	BLE 1M	2480	Ant1	-53.52	-20	Pass



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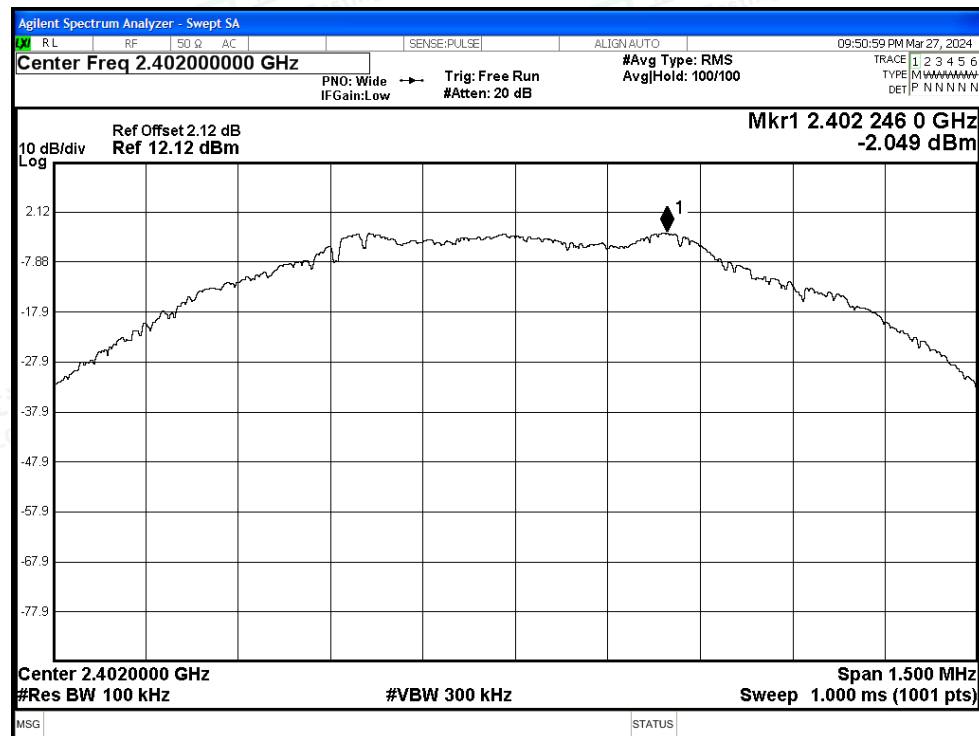
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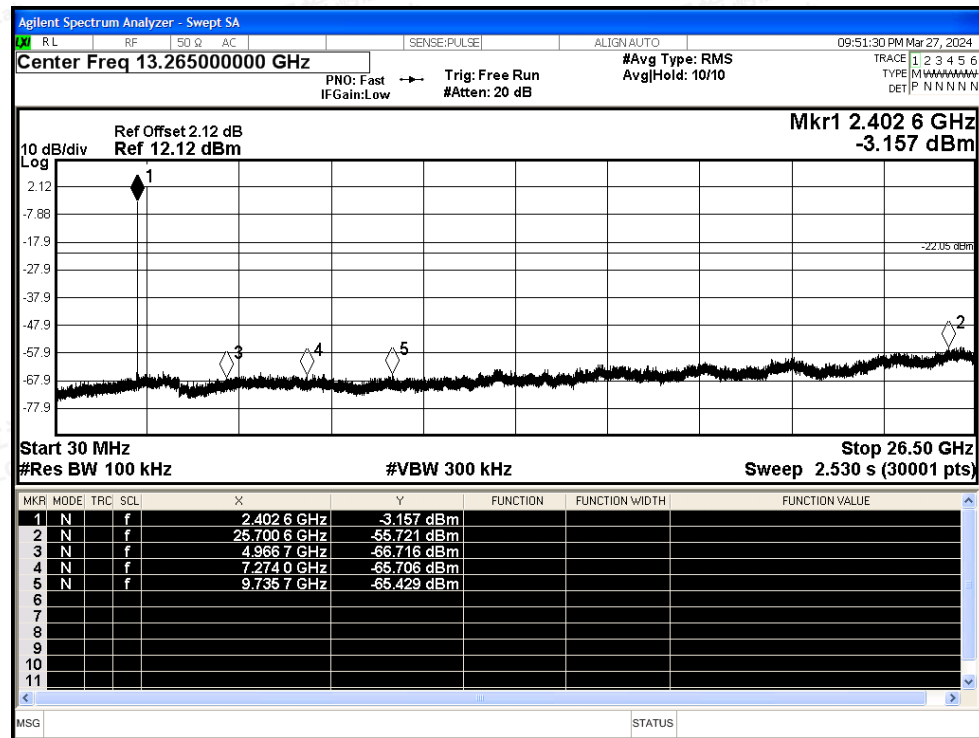


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

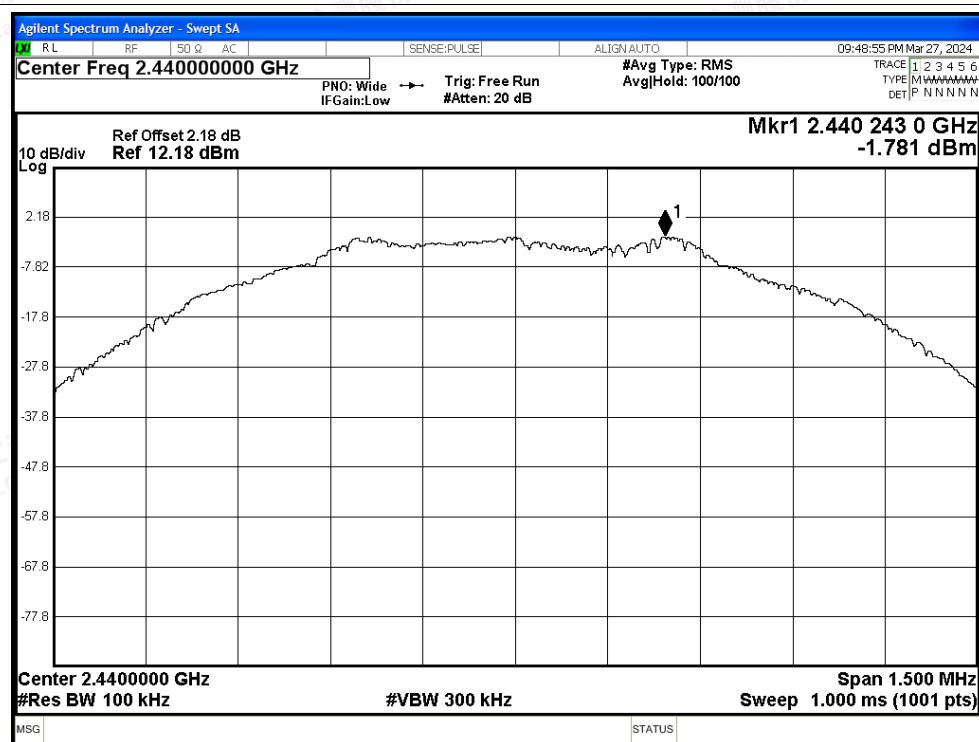
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

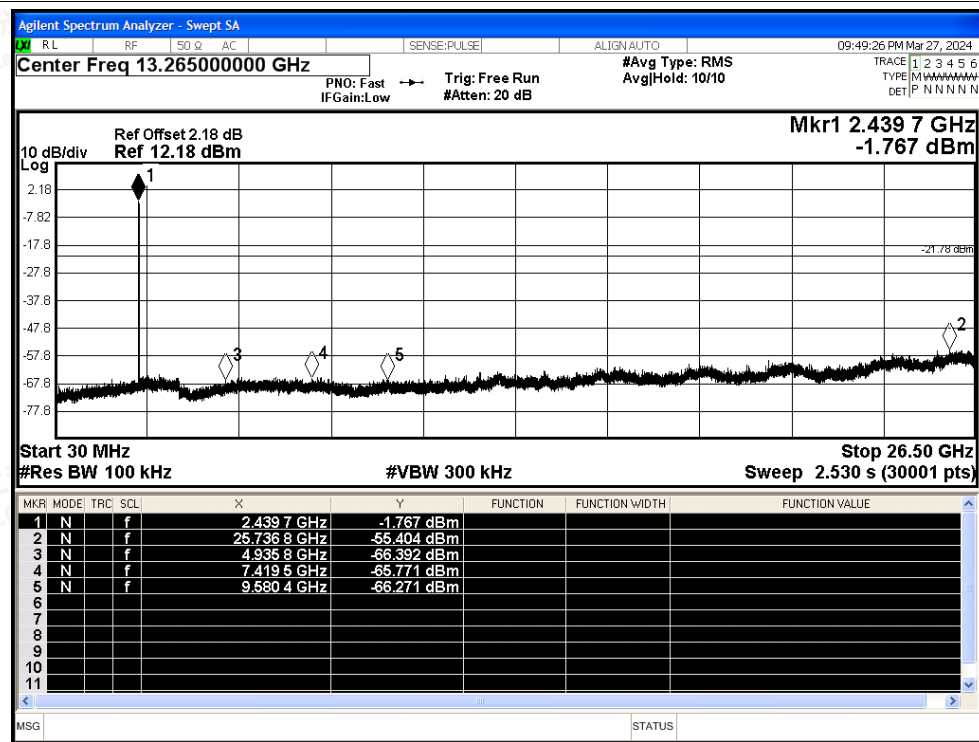
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Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



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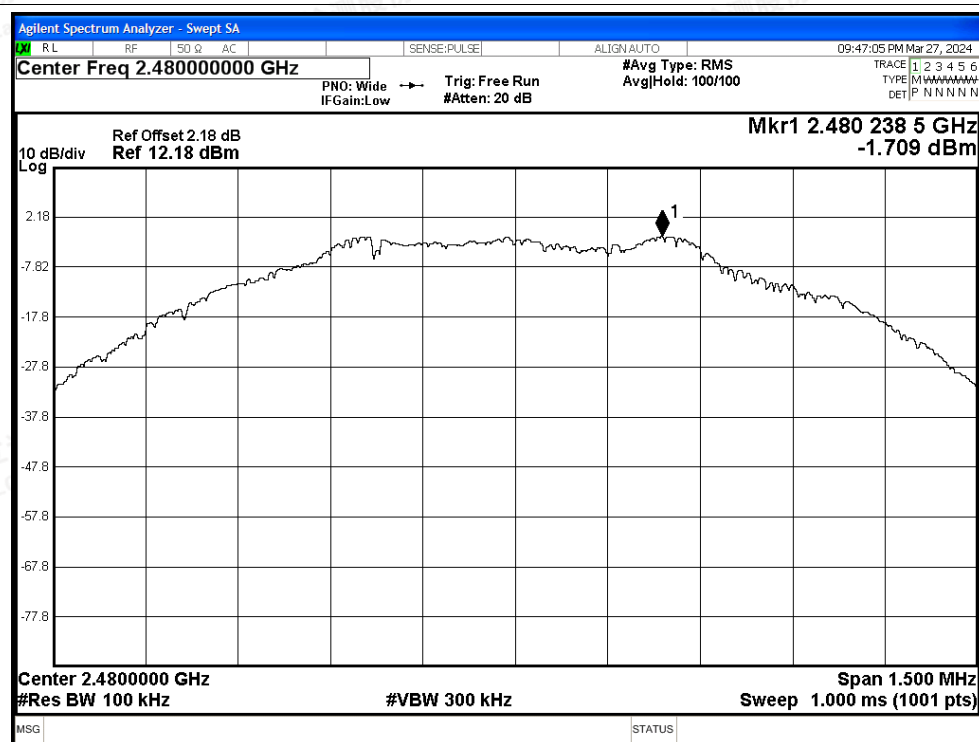
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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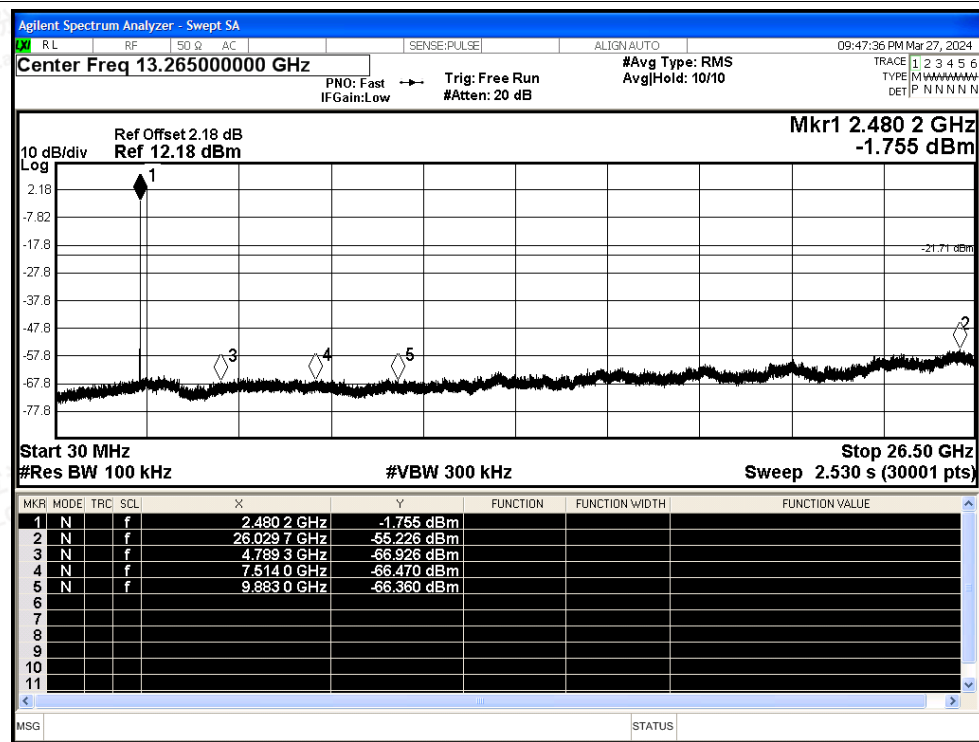
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Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 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	61.39	2.12	2.6
NVNT	BLE 1M	2440	Ant1	61.36	2.12	2.61
NVNT	BLE 1M	2480	Ant1	61.36	2.12	2.61



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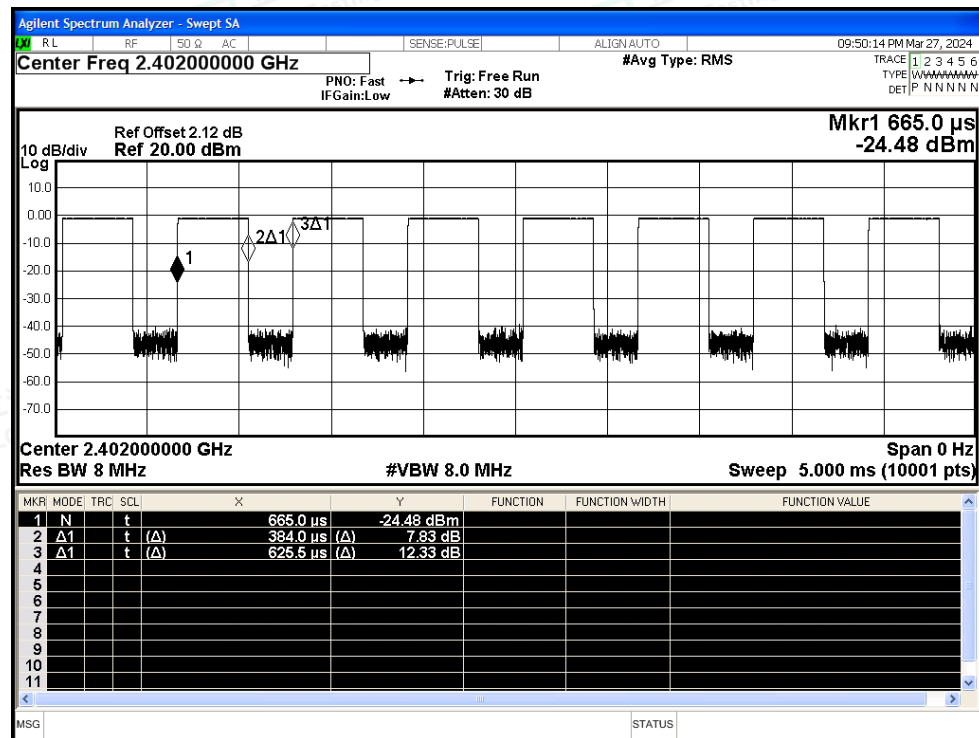
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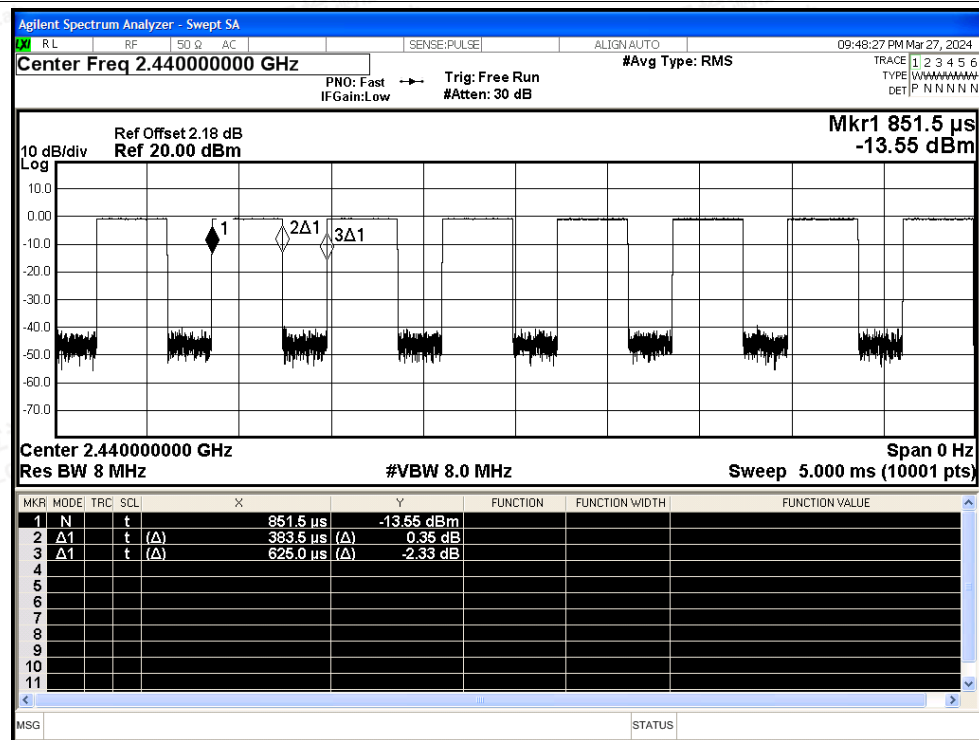


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1



Duty Cycle NVNT BLE 1M 2440MHz Ant1

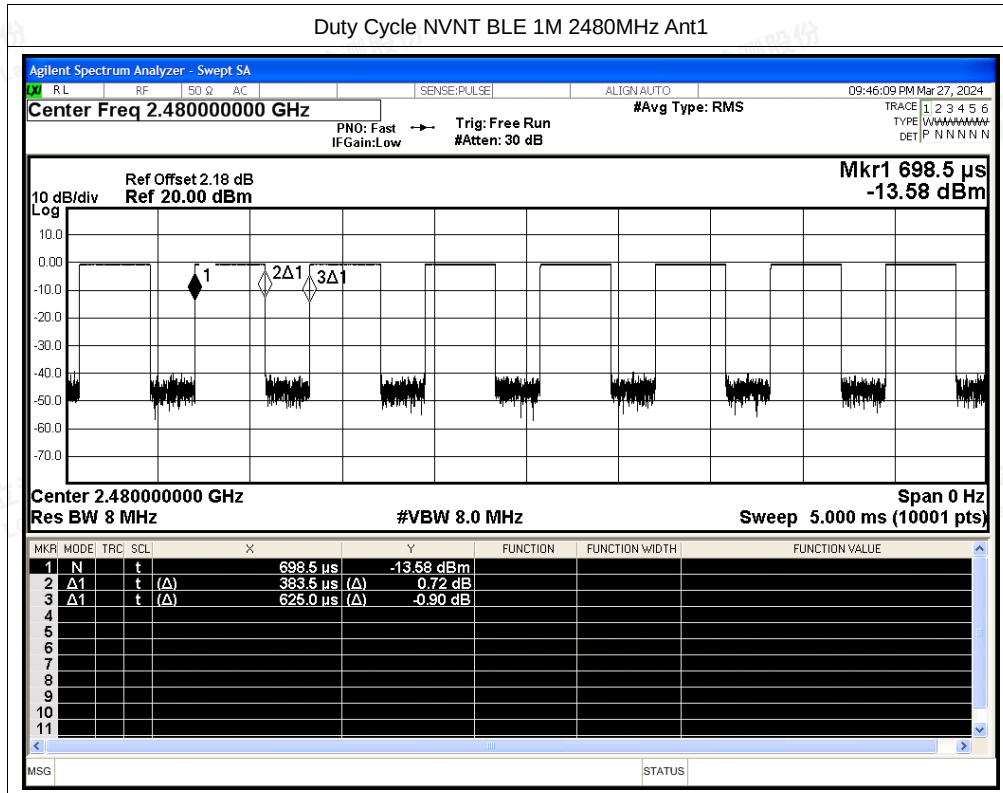


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B.7 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1M	2402	Ant1	2310	-51.52	2.50	-	46.24	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-58.7	2.50	2.12	41.18	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2361.744	-47.81	2.50	-	49.95	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2380.56	-57.74	2.50	2.12	42.14	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-49.99	2.50	-	47.77	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-58.19	2.50	2.12	41.69	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-49.73	2.50	-	48.03	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-58.02	2.50	2.12	41.86	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2491.384	-47.01	2.50	-	50.75	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2498.152	-57.1	2.50	2.12	42.78	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-50.78	2.50	-	46.98	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-58.44	2.50	2.12	41.44	Average	54	Pass



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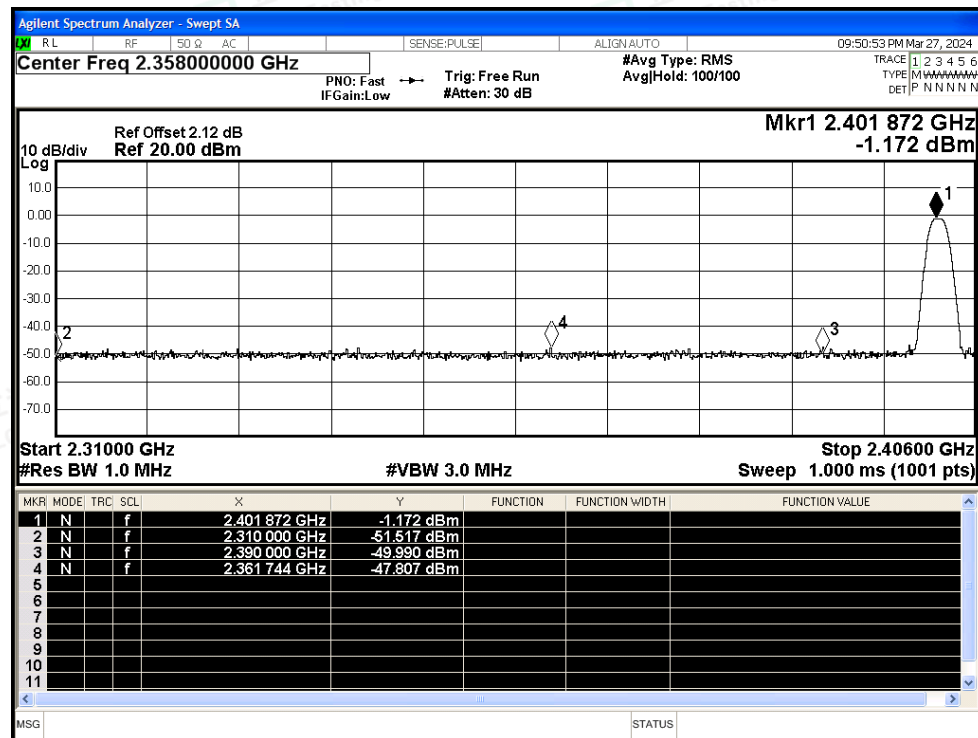
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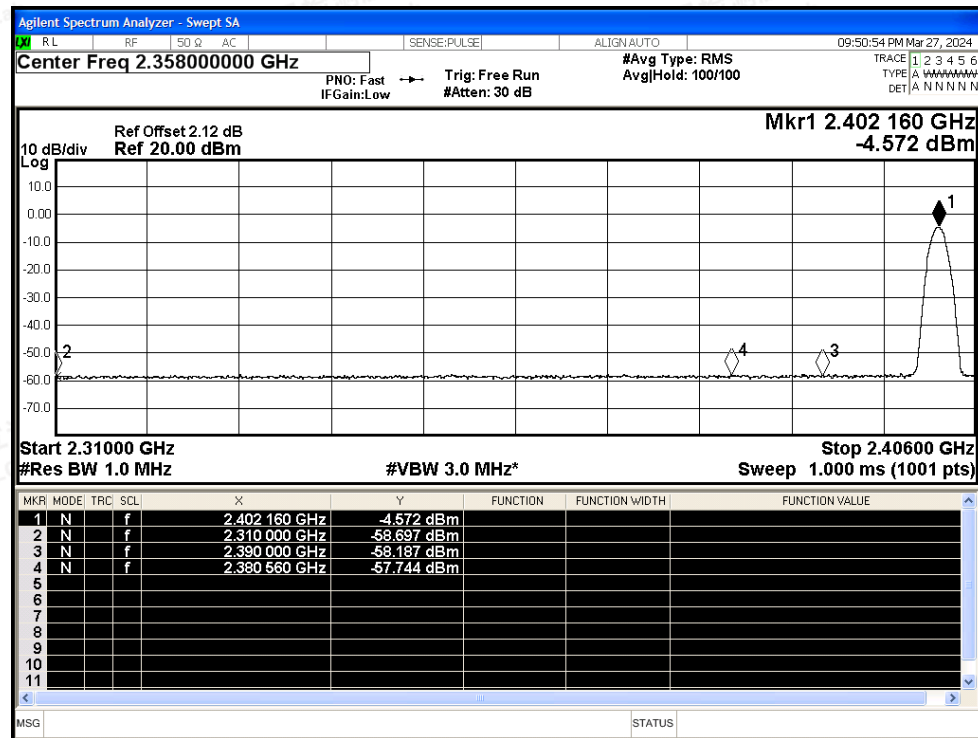


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant1 Average



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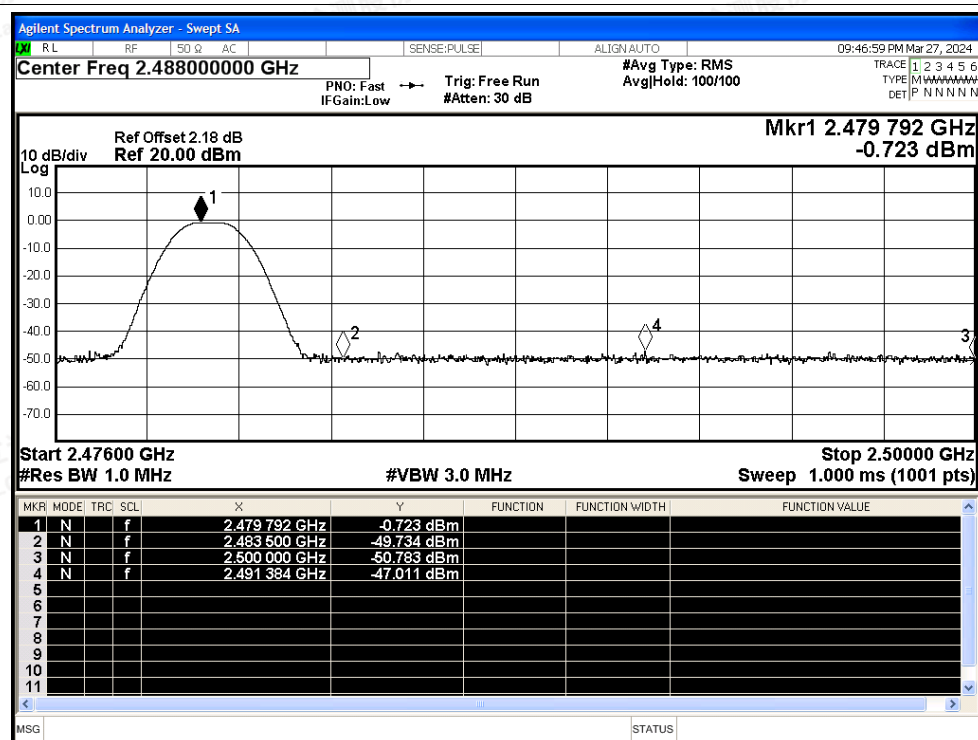
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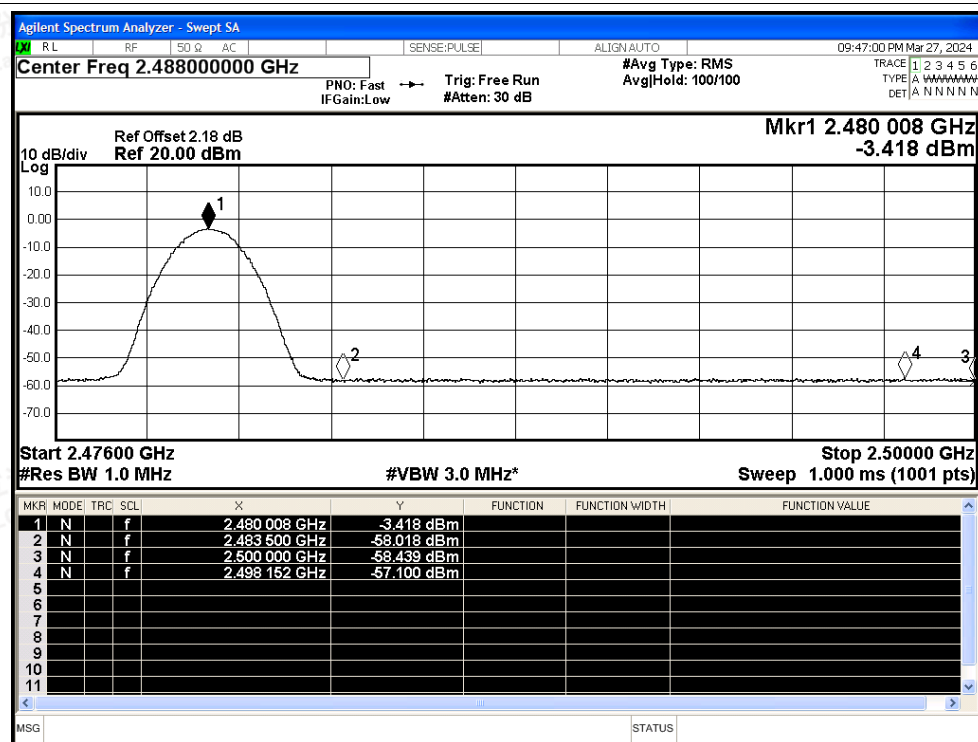
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Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2480MHz Ant1 Average



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