



Appendix A

RF Test Data for BT LE (Conducted Measurement)

Product Name: 11inch LED Ceiling Light

Test Model: CBSL11SMBK

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	monkey.Li Monkey Li
Supervised by:	LiHuan Li Huan





A.1 6dB Bandwidth

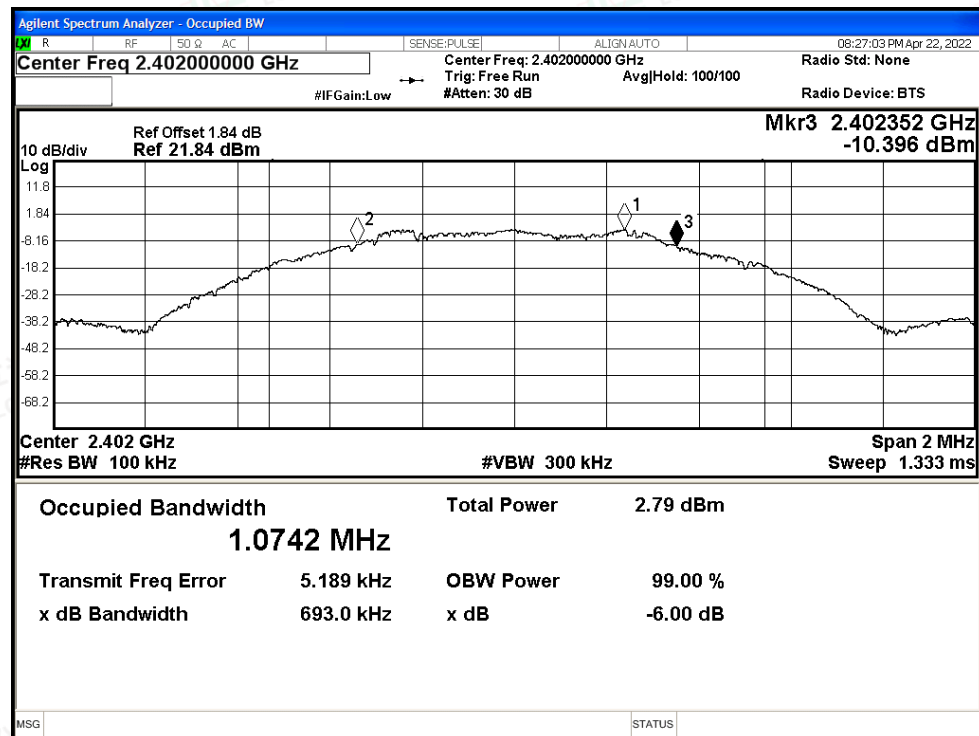
Condition	Mode	Frequency (MHz)	Antenna	6 dB Bandwidth (MHz)	Limit 6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.693	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.704	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.694	0.5	Pass



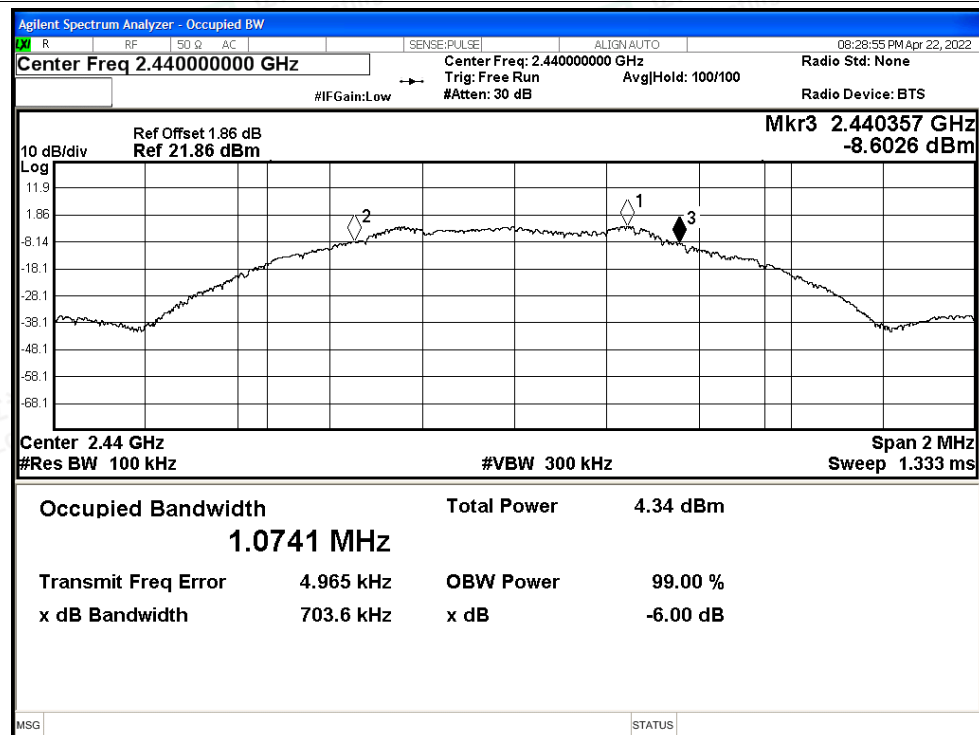


Test Graphs

6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



6dB Bandwidth NVNT BLE 1M 2440MHz Ant1

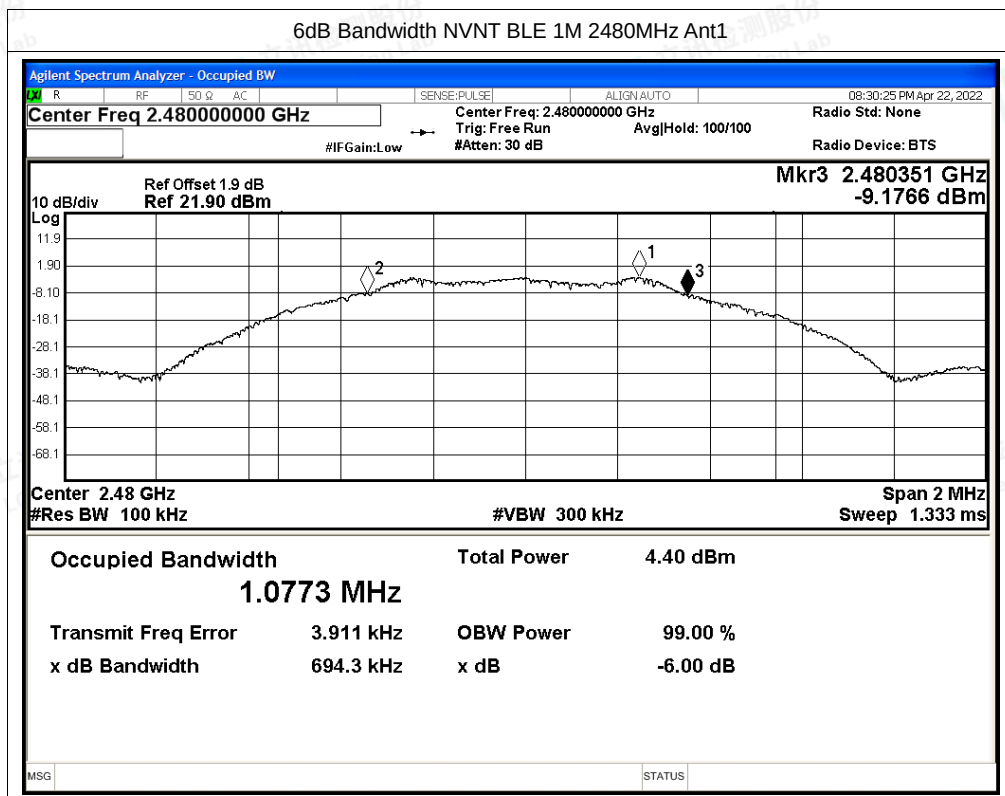


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A.2 Maximum Conducted Output Power

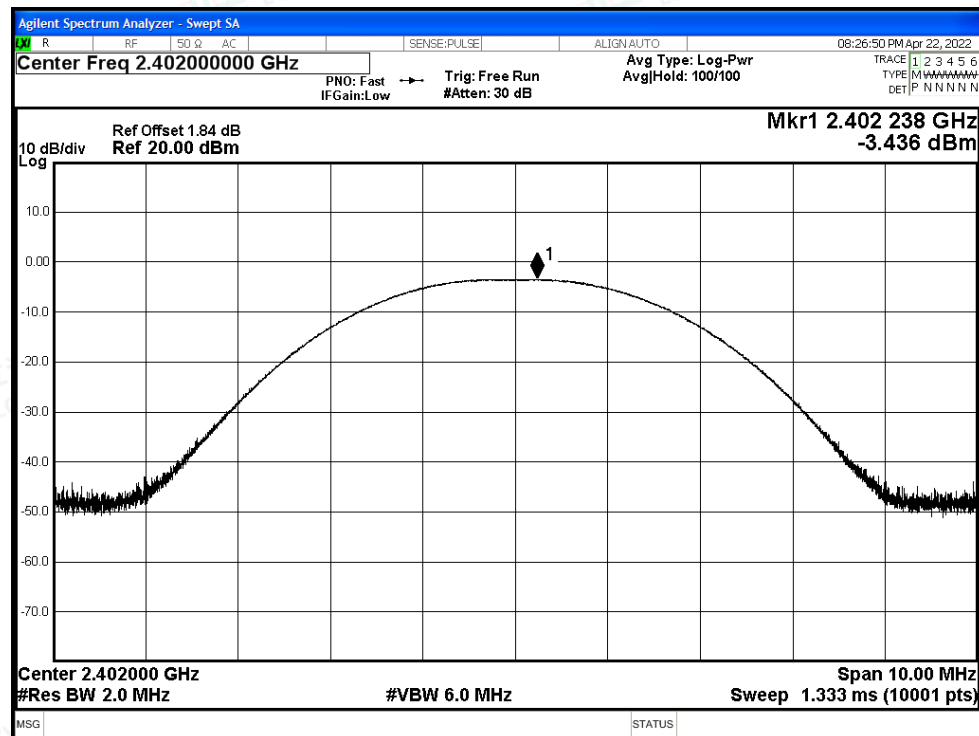
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-3.44	30	Pass
NVNT	BLE 1M	2440	Ant1	-1.38	30	Pass
NVNT	BLE 1M	2480	Ant1	-1.36	30	Pass



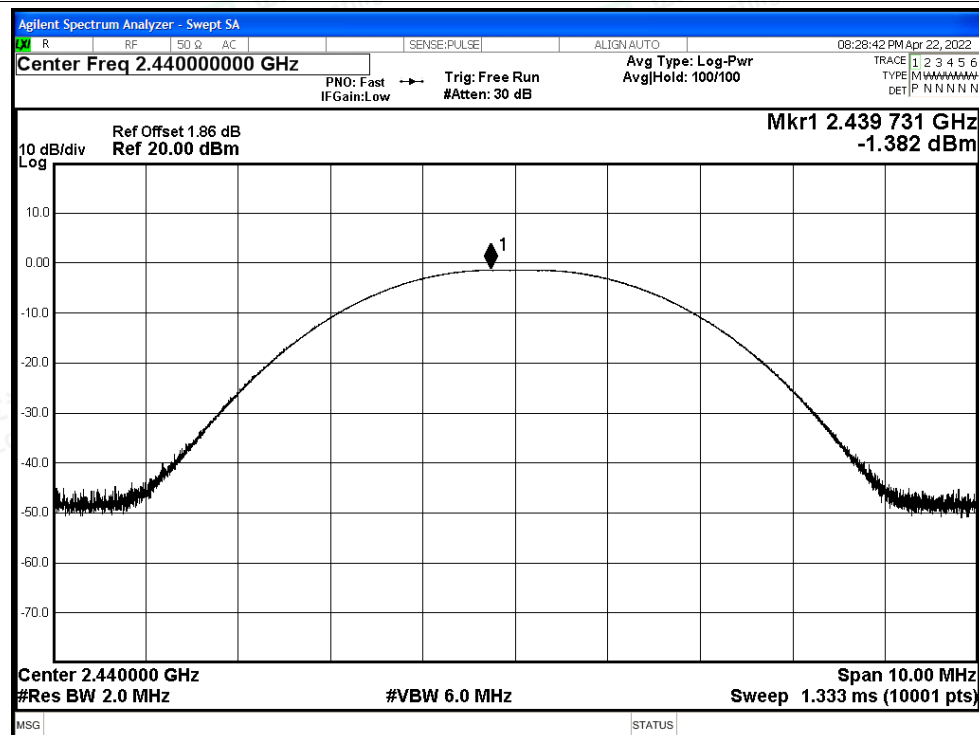


Test Graphs

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1

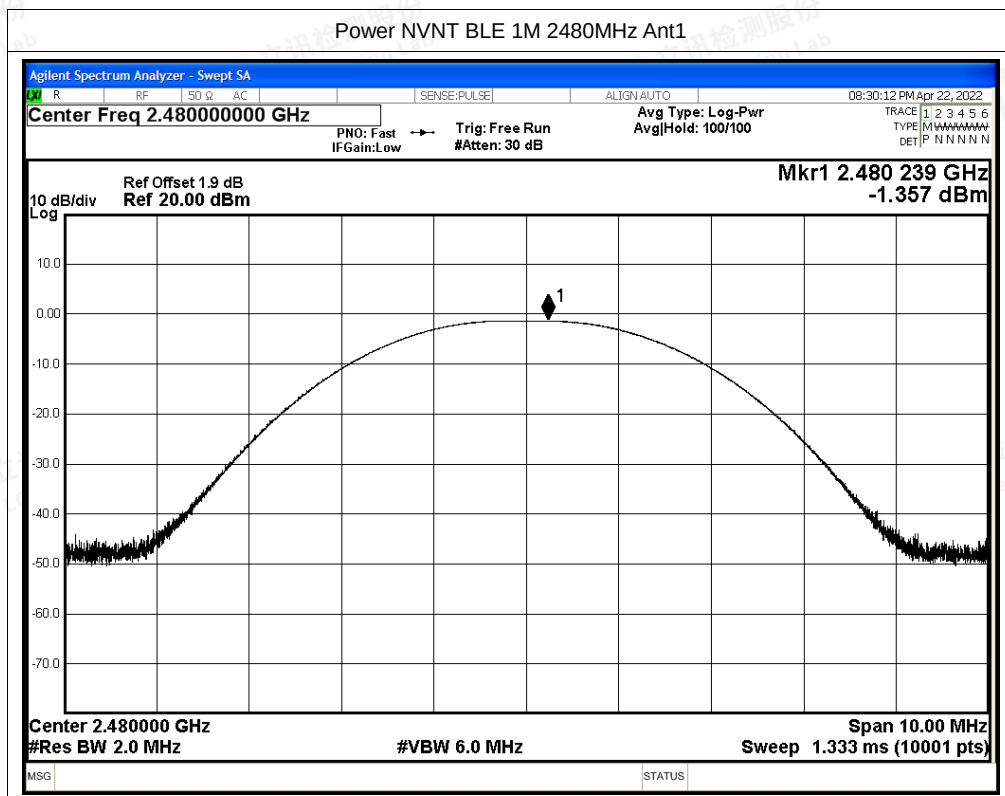


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A.3 Maximum Power Spectral Density

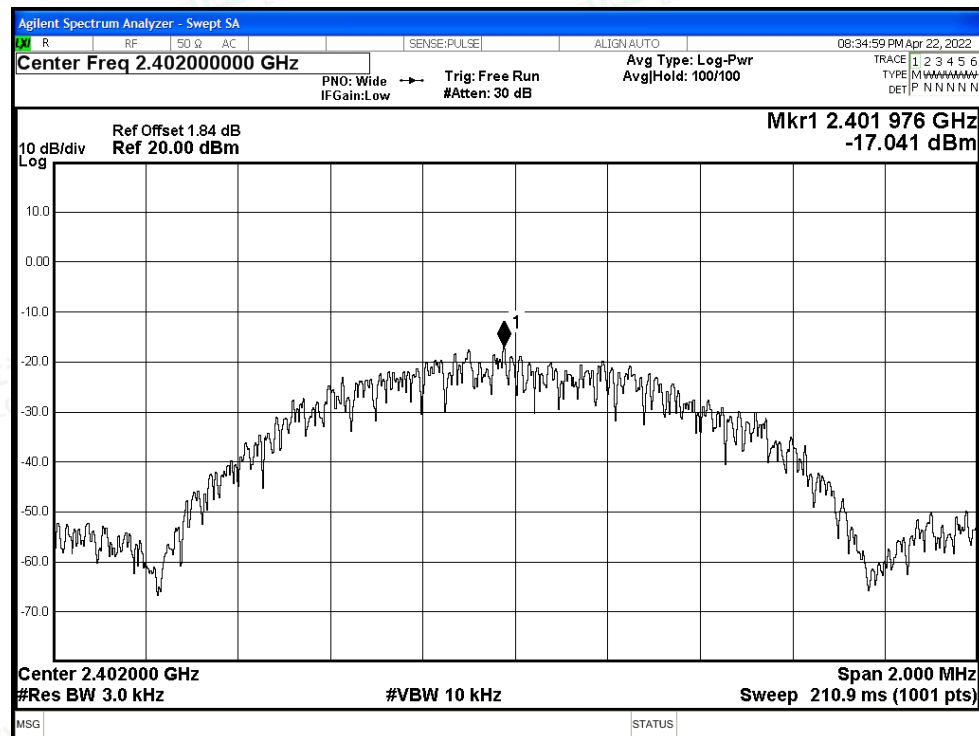
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-17.04	0	-17.04	8	Pass
NVNT	BLE 1M	2440	Ant1	-16.5	0	-16.5	8	Pass
NVNT	BLE 1M	2480	Ant1	-16.44	0	-16.44	8	Pass



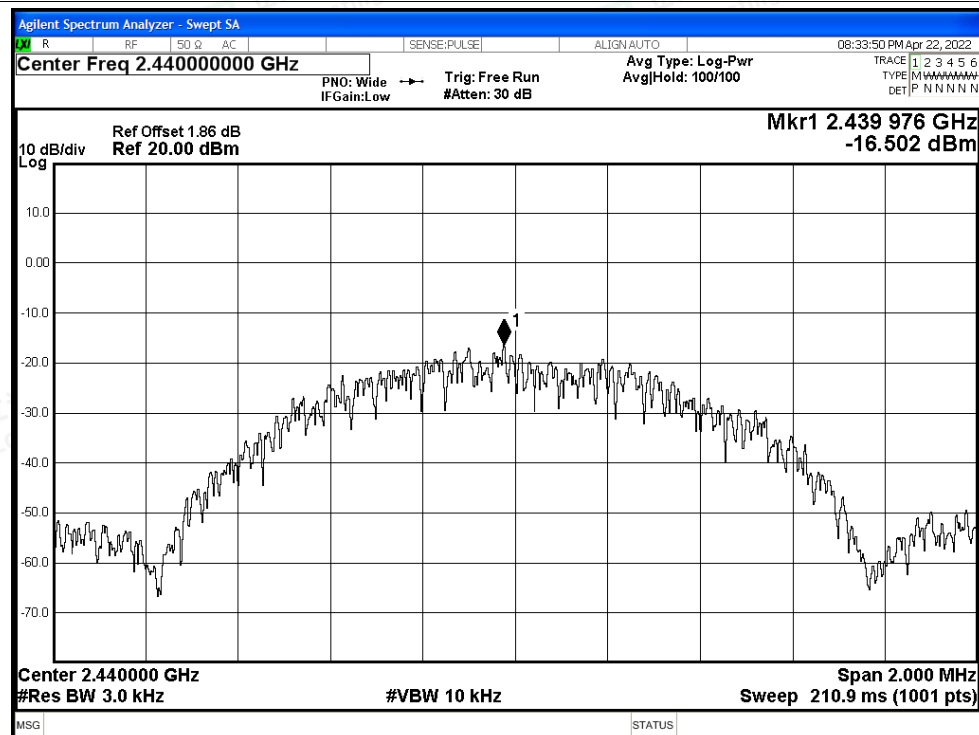


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1

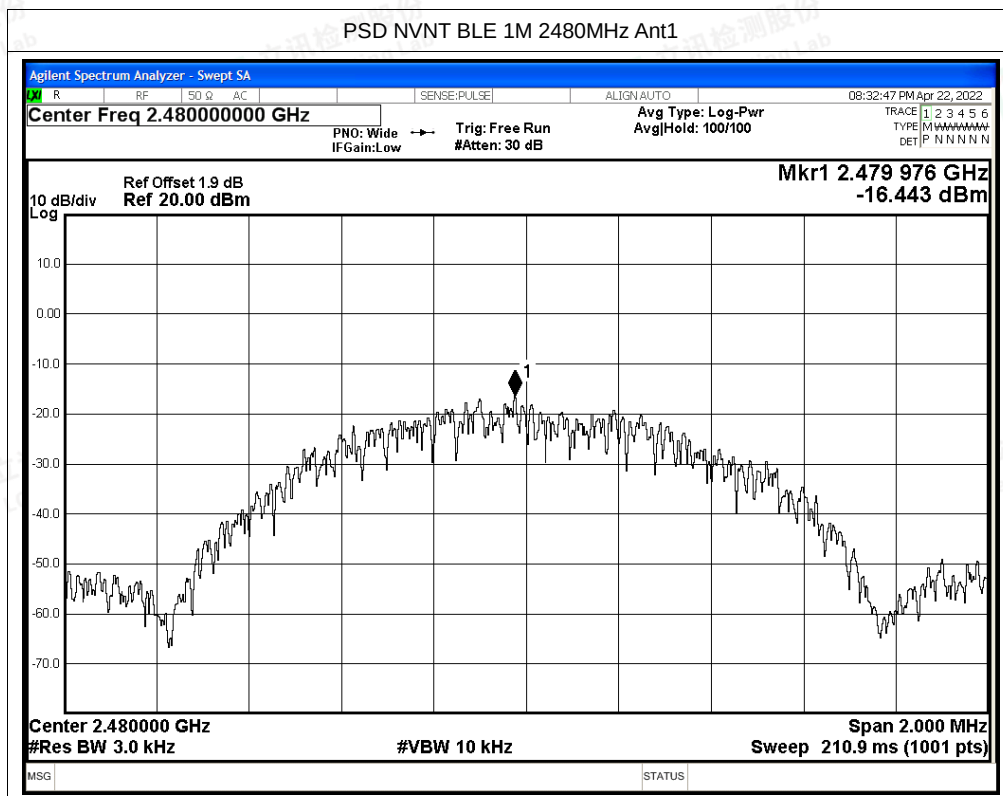


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A.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-53.99	-20	Pass
NVNT	BLE 1M	2480	Ant1	-54.65	-20	Pass



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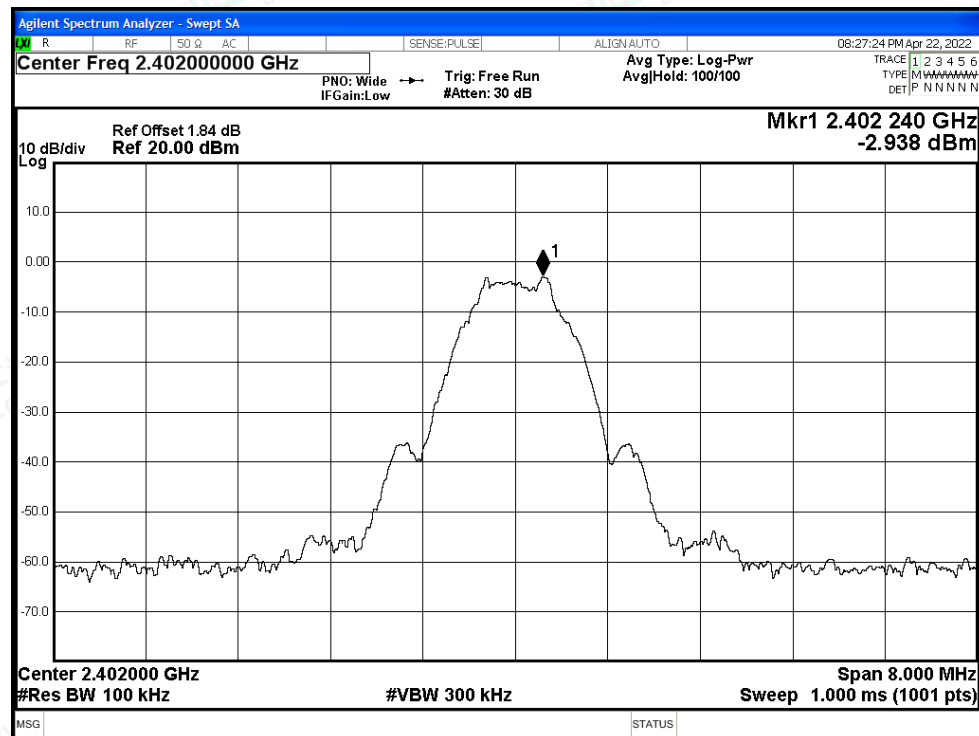
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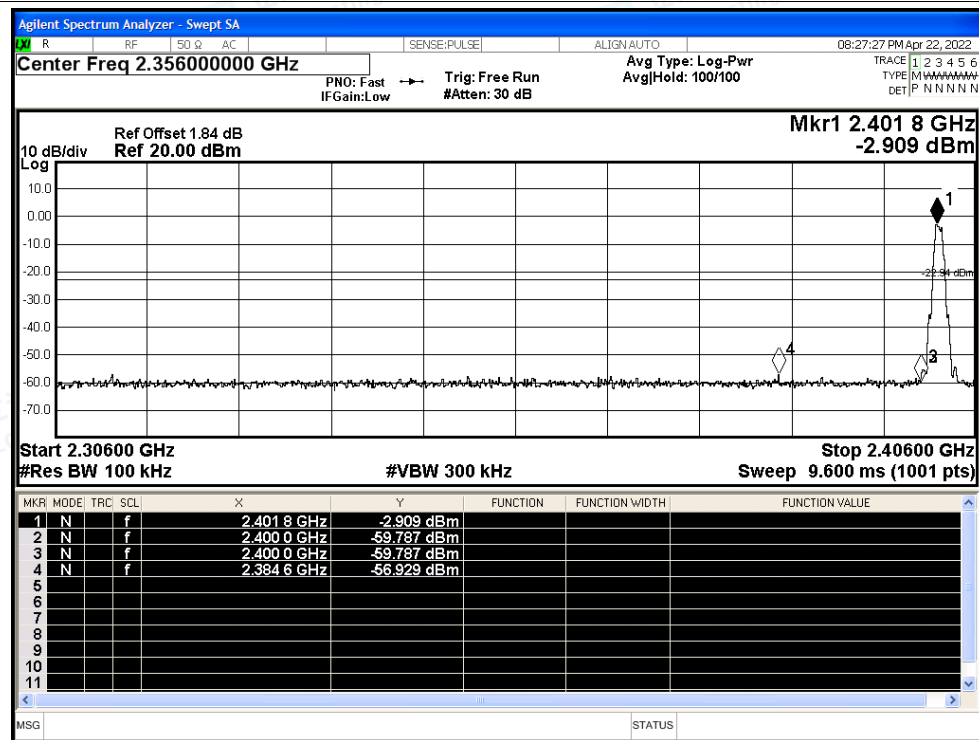


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



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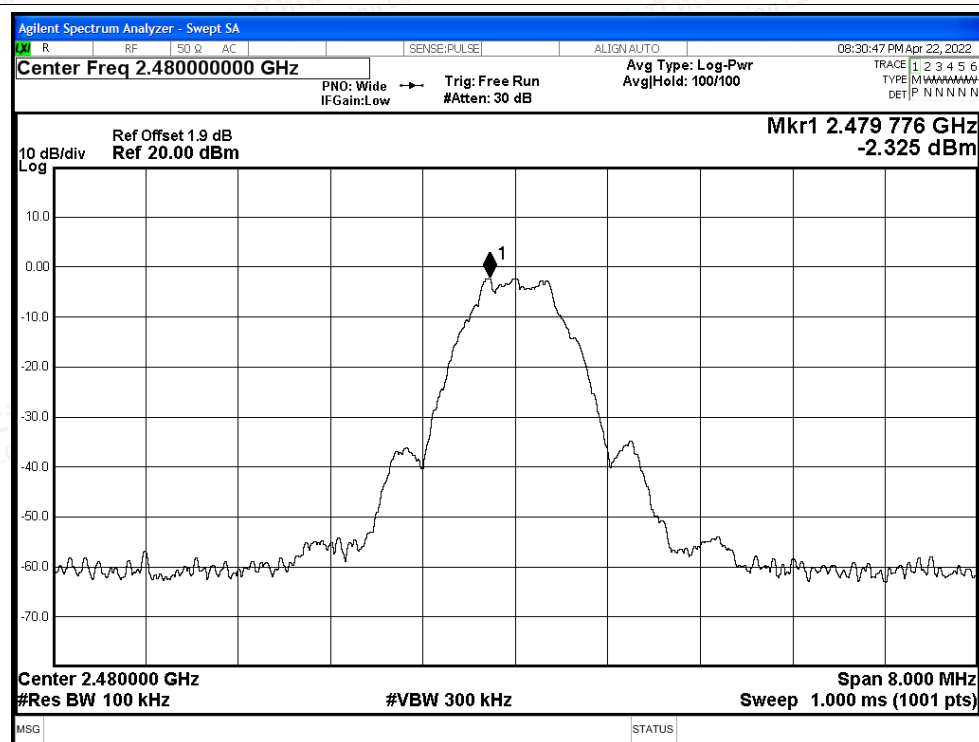
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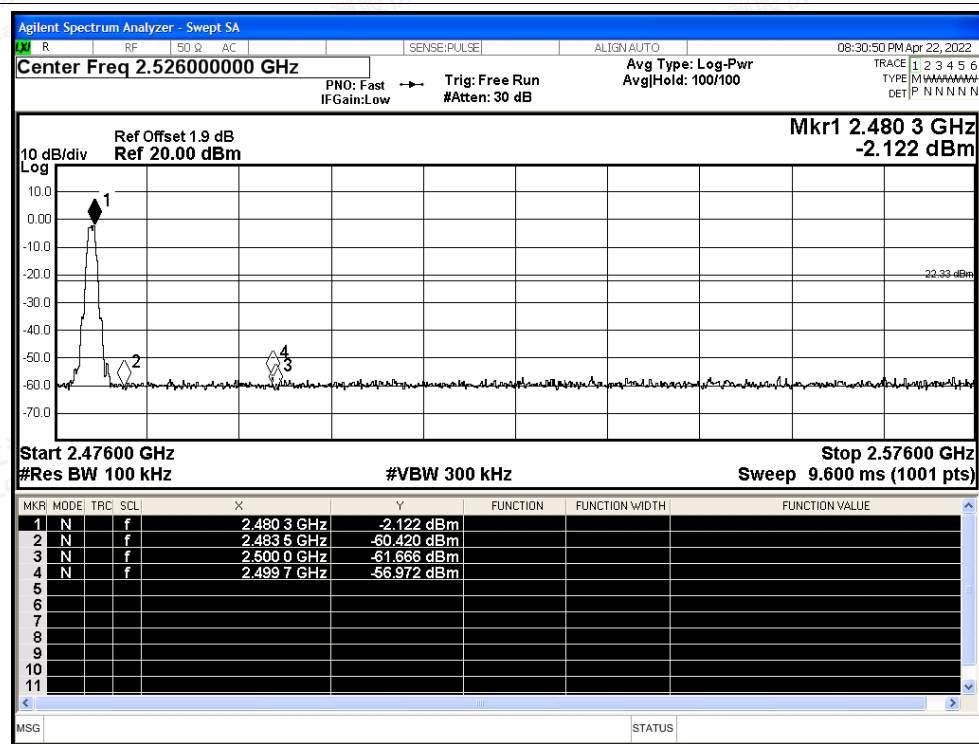
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Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



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A.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-43.58	-20	Pass
NVNT	BLE 1M	2440	Ant1	-53.57	-20	Pass
NVNT	BLE 1M	2480	Ant1	-53.84	-20	Pass



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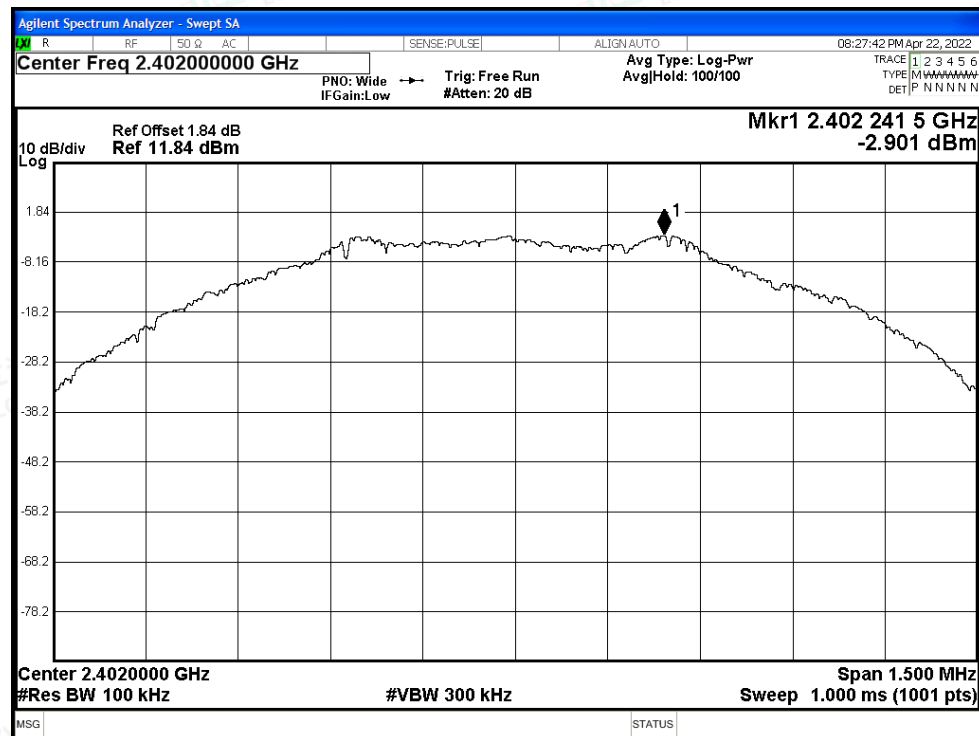
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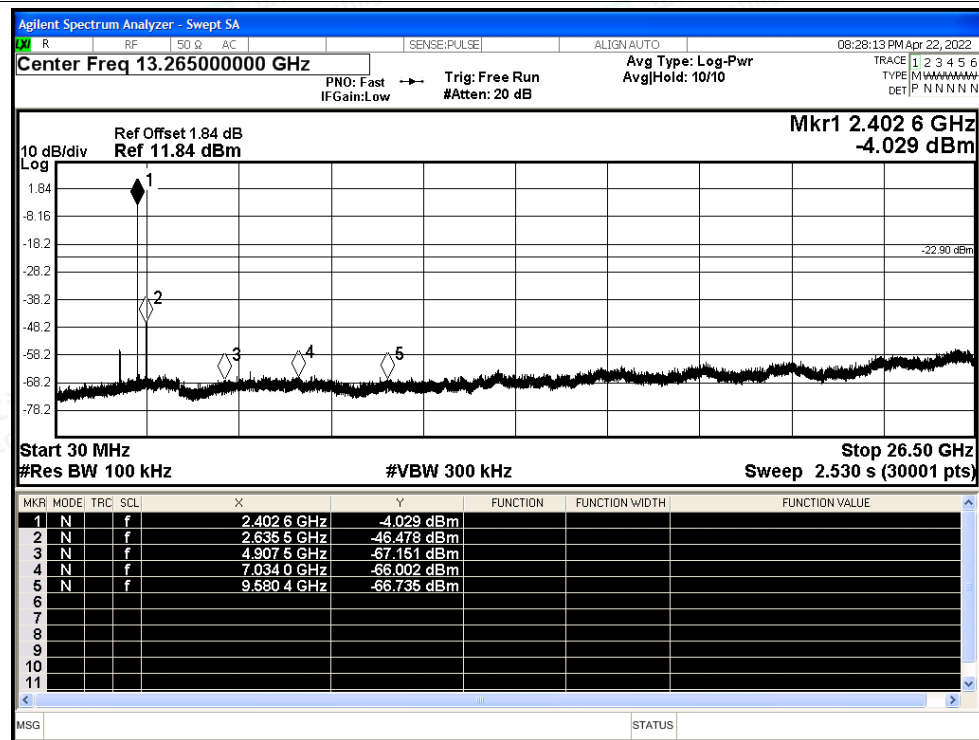


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

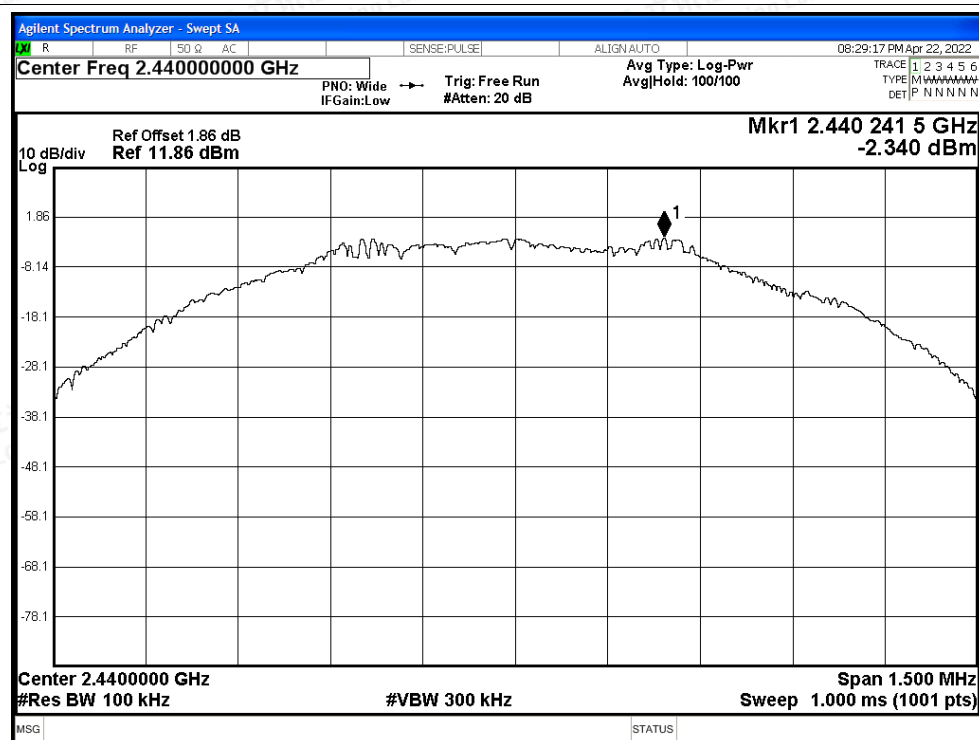
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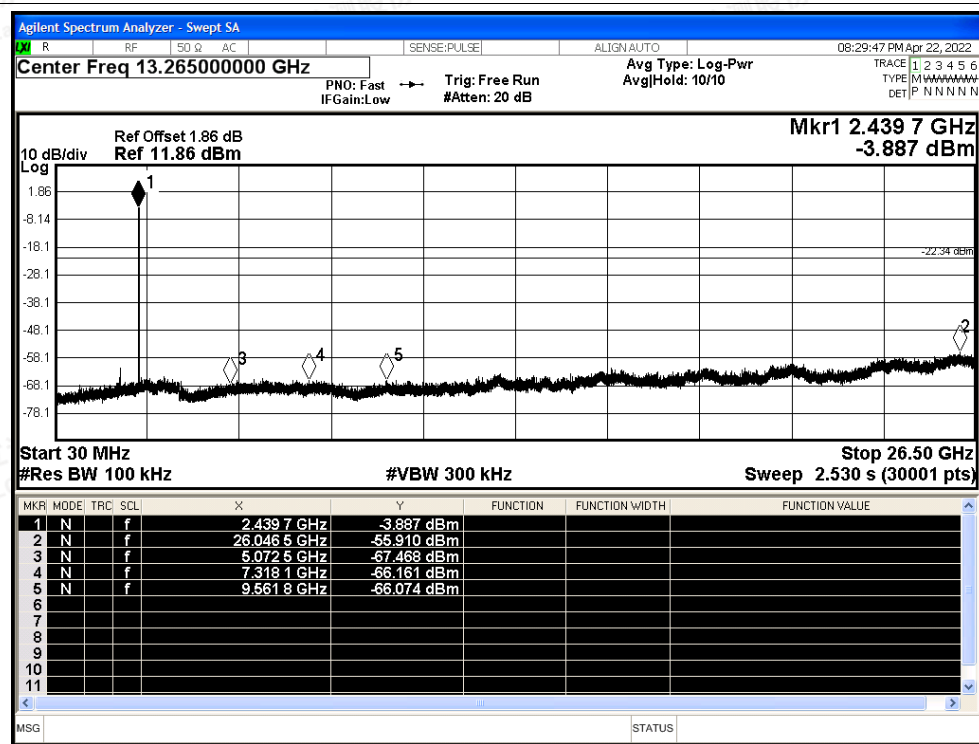
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Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



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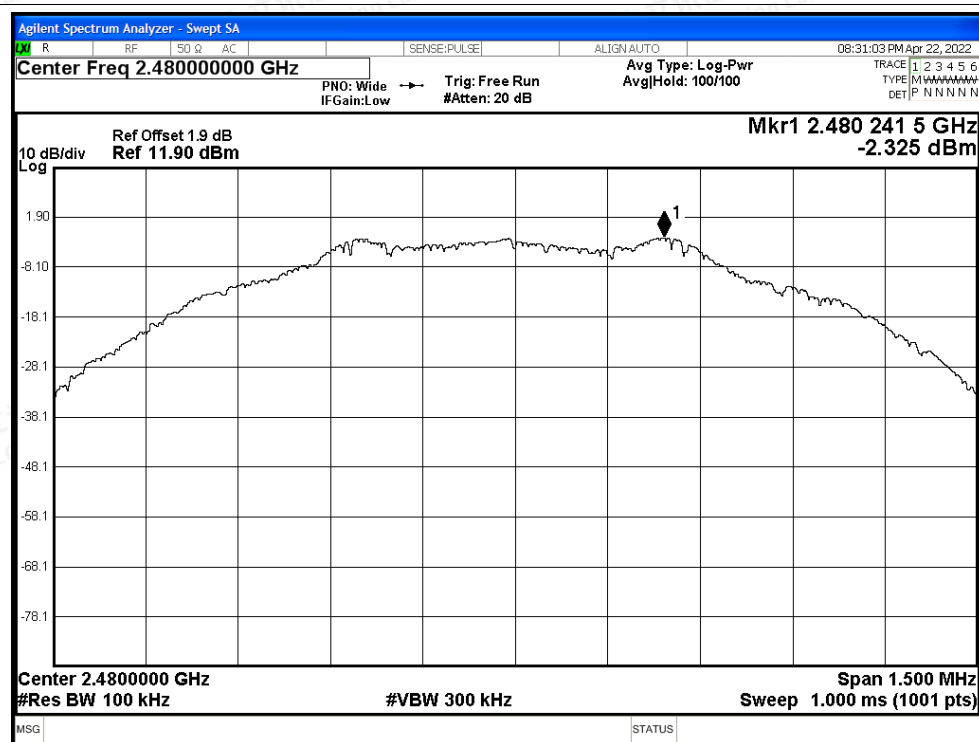
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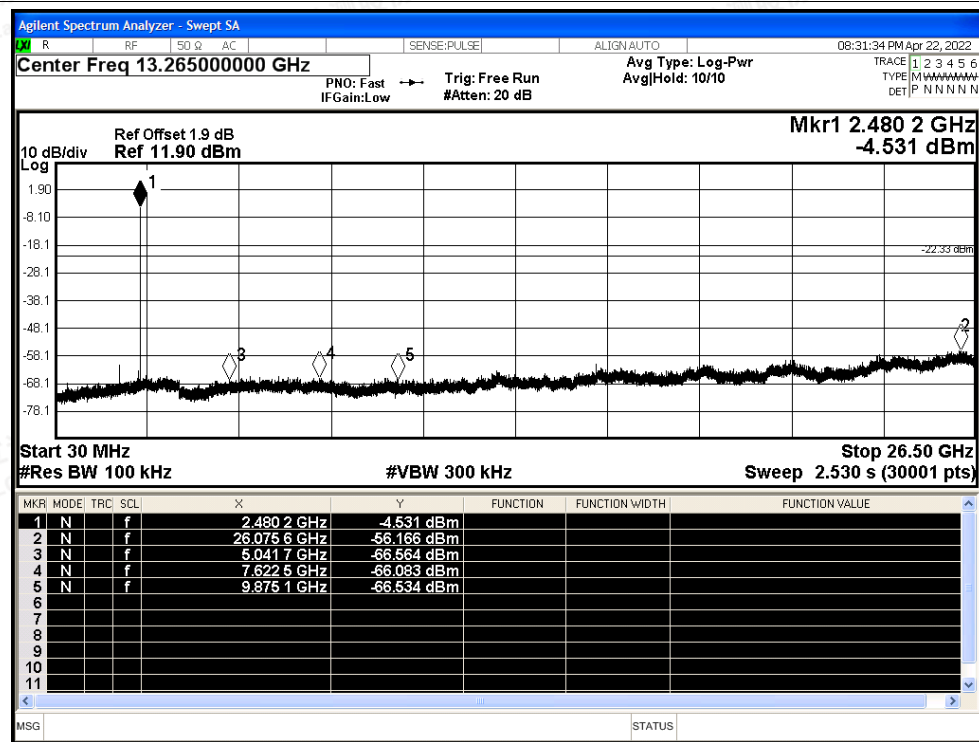
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Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



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A.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	61.44	2.12	2.6
NVNT	BLE 1M	2440	Ant1	61.36	2.12	2.61
NVNT	BLE 1M	2480	Ant1	61.44	2.12	2.6



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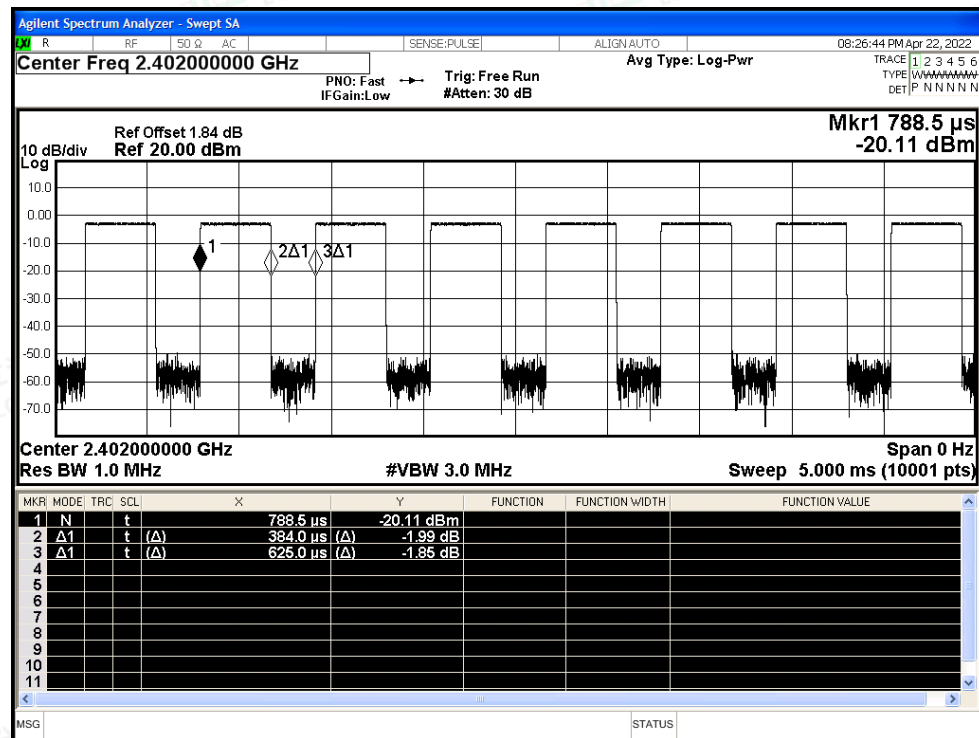
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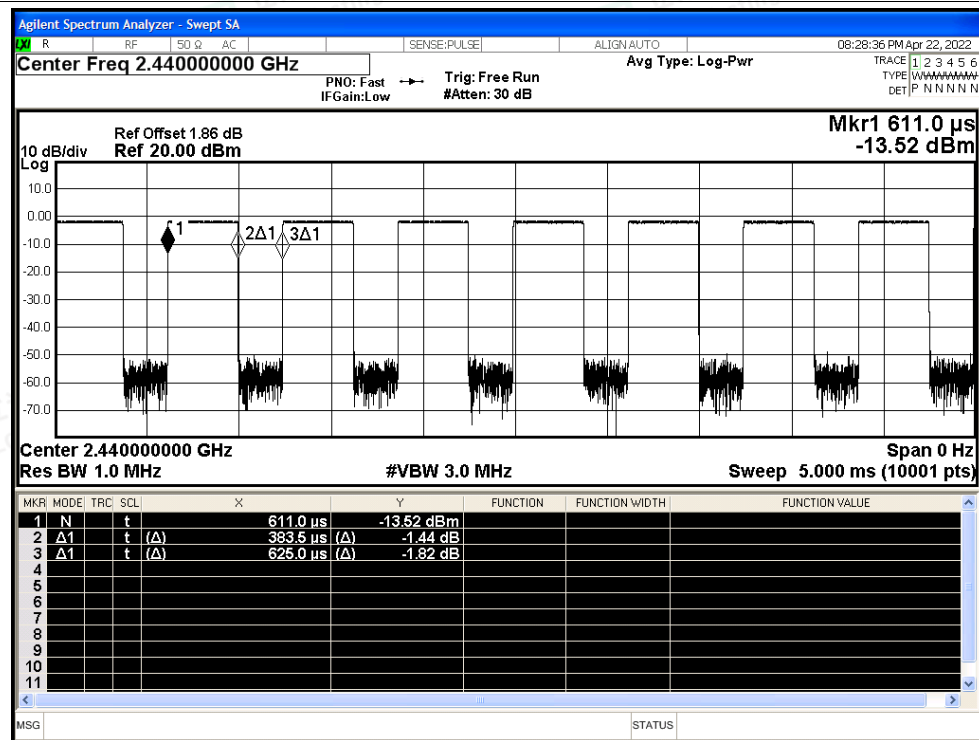


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1



Duty Cycle NVNT BLE 1M 2440MHz Ant1

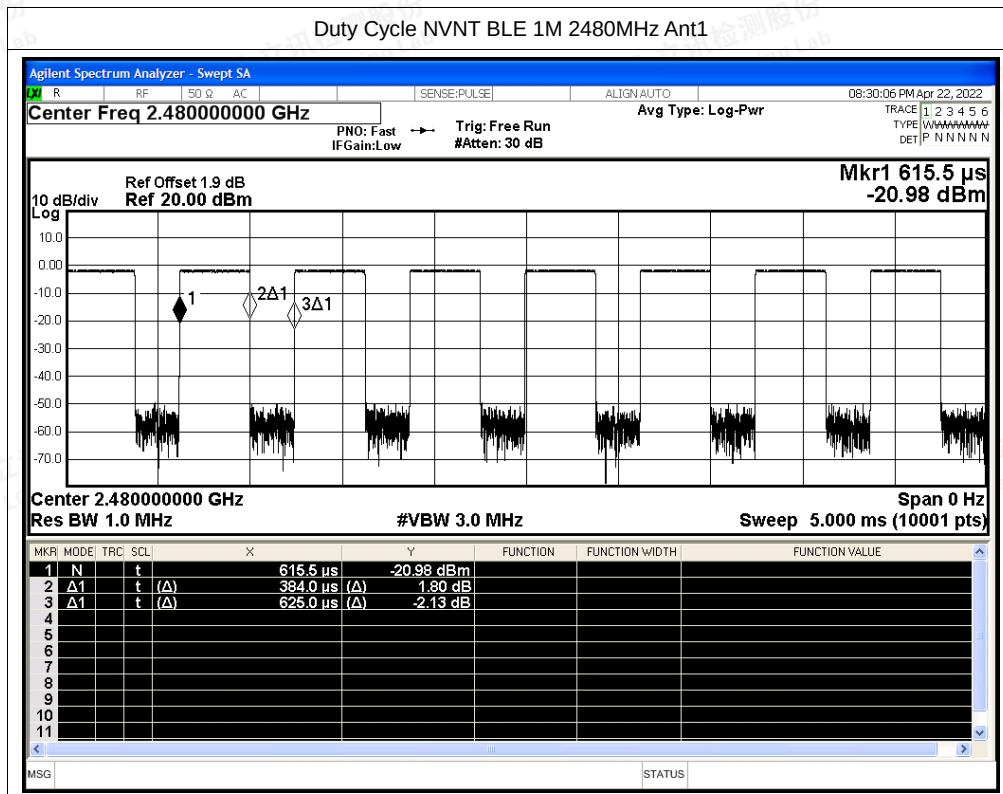


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A.7 Restrict Band

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	-51.17	2	46.09	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-60.04	2	37.22	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2335.824	-47.46	2	49.8	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2383.056	-59.24	2	38.02	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-50.73	2	46.53	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-59.47	2	37.79	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-49.5	2	47.76	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-59.54	2	37.72	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2493.4	-47.93	2	49.33	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2495.032	-58.33	2	38.93	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-49.63	2	47.63	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-59.49	2	37.77	Average	54	Pass



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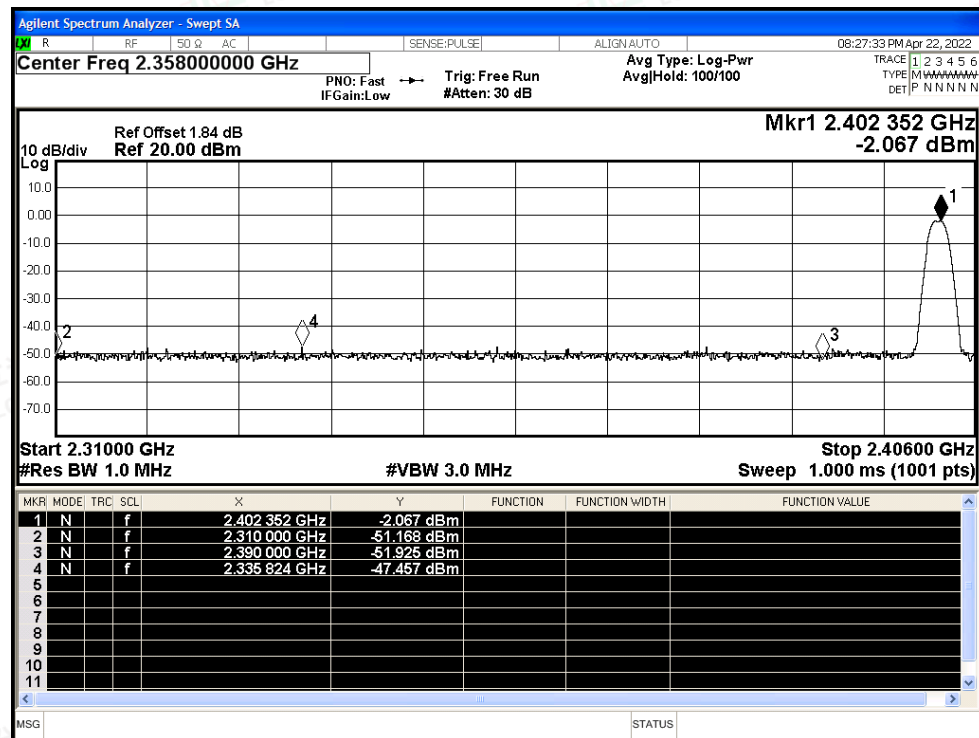
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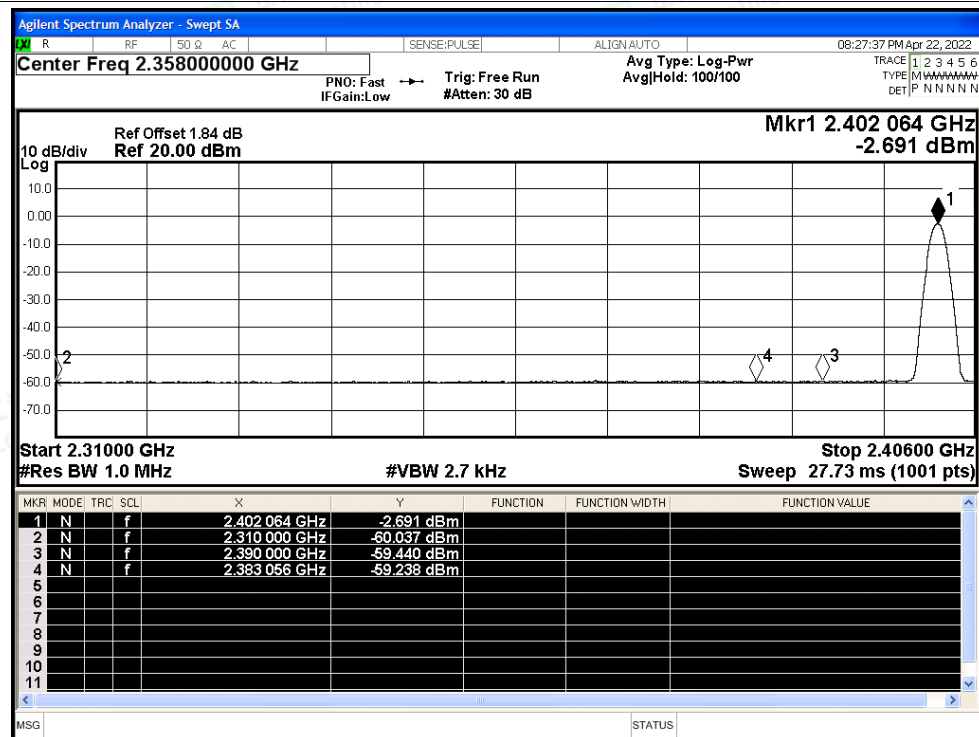


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant1 Average



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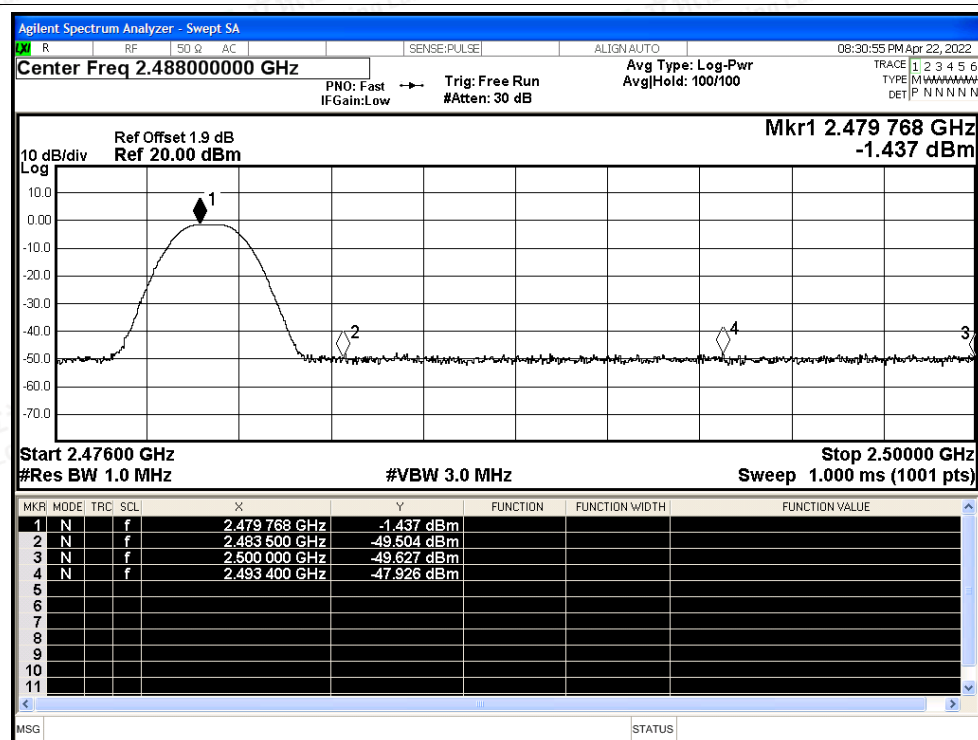
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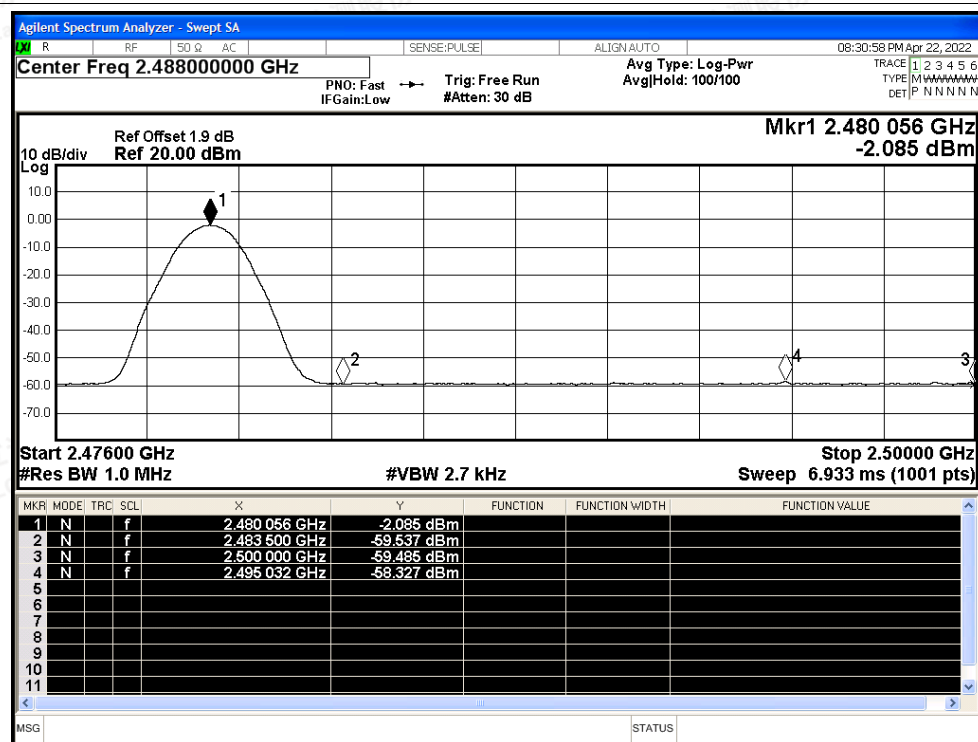
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Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2480MHz Ant1 Average



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