



Appendix A

RF Test Data for BT LE (Conducted Measurement)

Product Name: Blyott Tiny Tag

Test Model: Blyott Bluetooth Tag

Environmental Conditions

Temperature:	23.5℃
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Nick Peng
Supervised by:	Ling Zhu





A.1 6dB Bandwidth

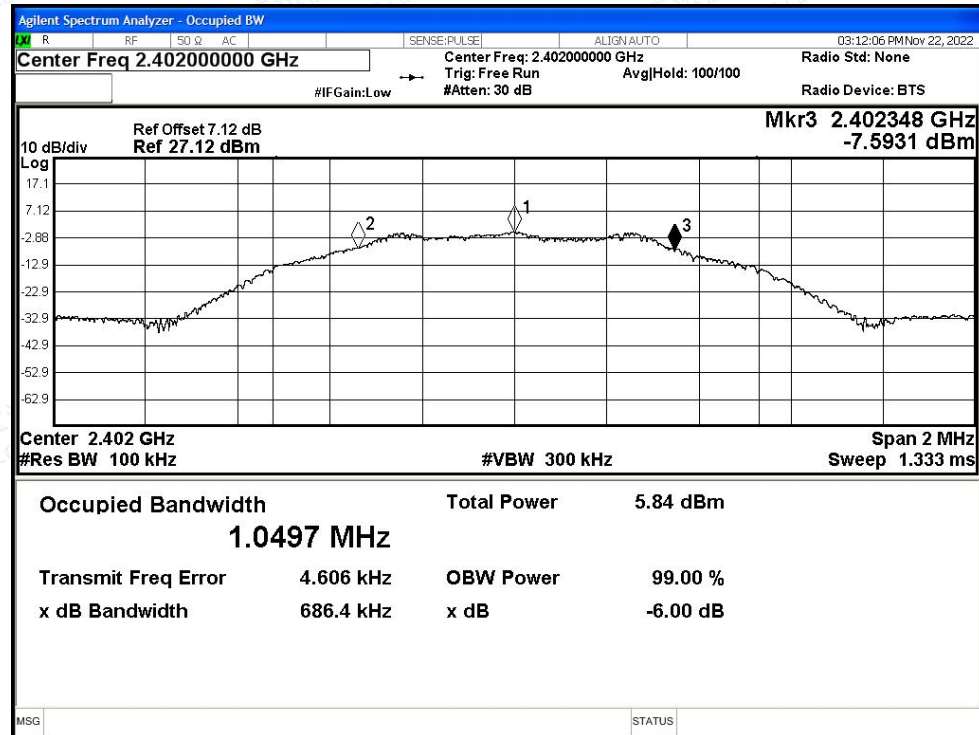
Condition	Mode	Frequency (MHz)	Antenna	6 dB Bandwidth (MHz)	Limit 6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.686	≥ 0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.699	≥ 0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.686	≥ 0.5	Pass



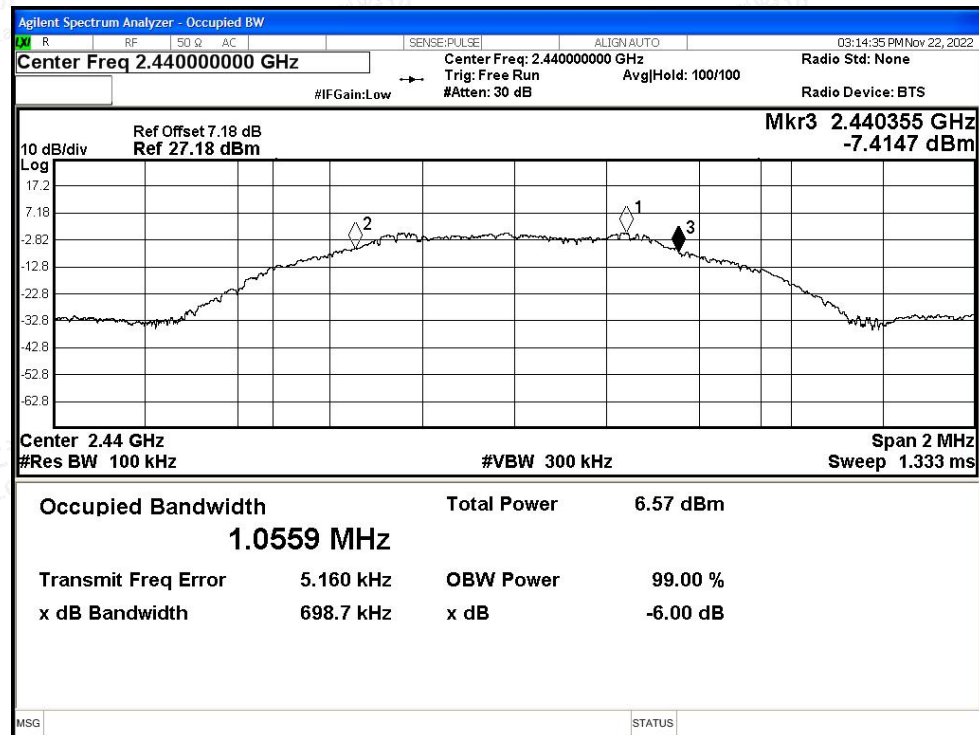


Test Graphs

6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



6dB Bandwidth NVNT BLE 1M 2440MHz Ant1

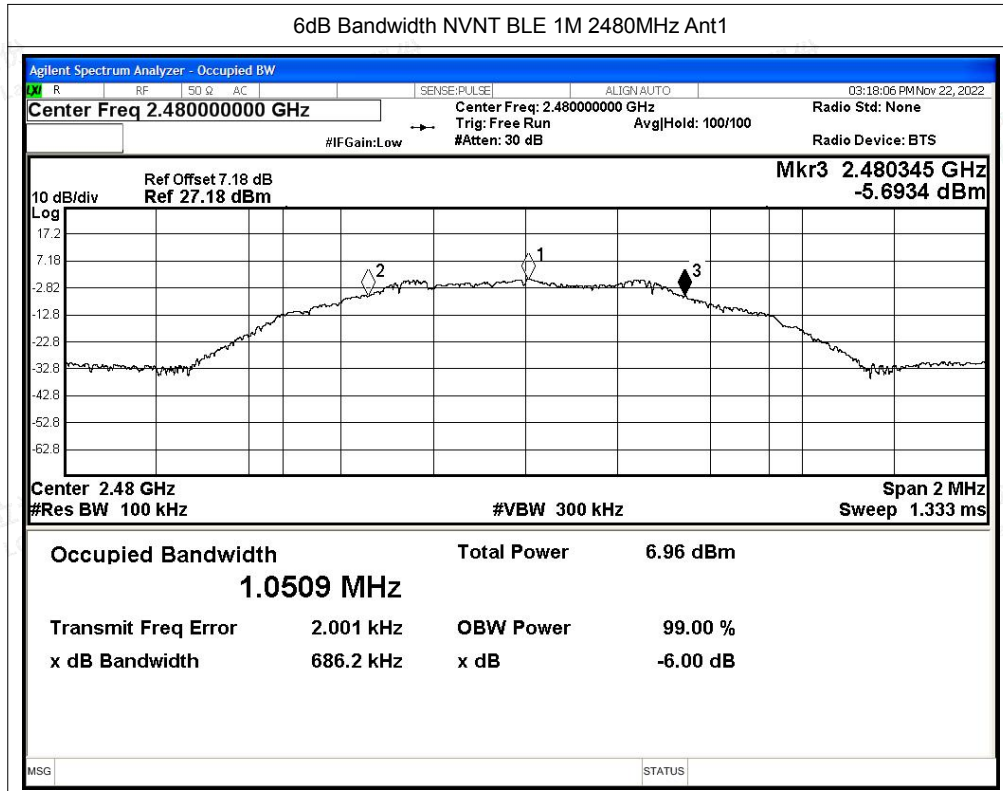


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A.2 Maximum Conducted Output Power

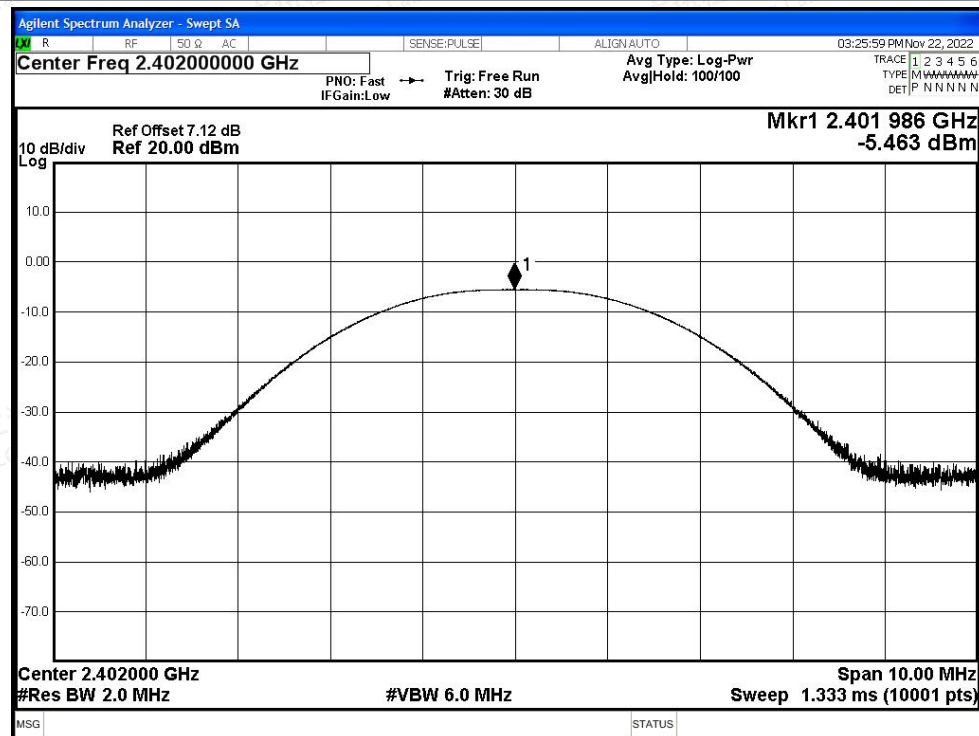
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-5.46	30	Pass
NVNT	BLE 1M	2440	Ant1	-4.97	30	Pass
NVNT	BLE 1M	2480	Ant1	-4.74	30	Pass



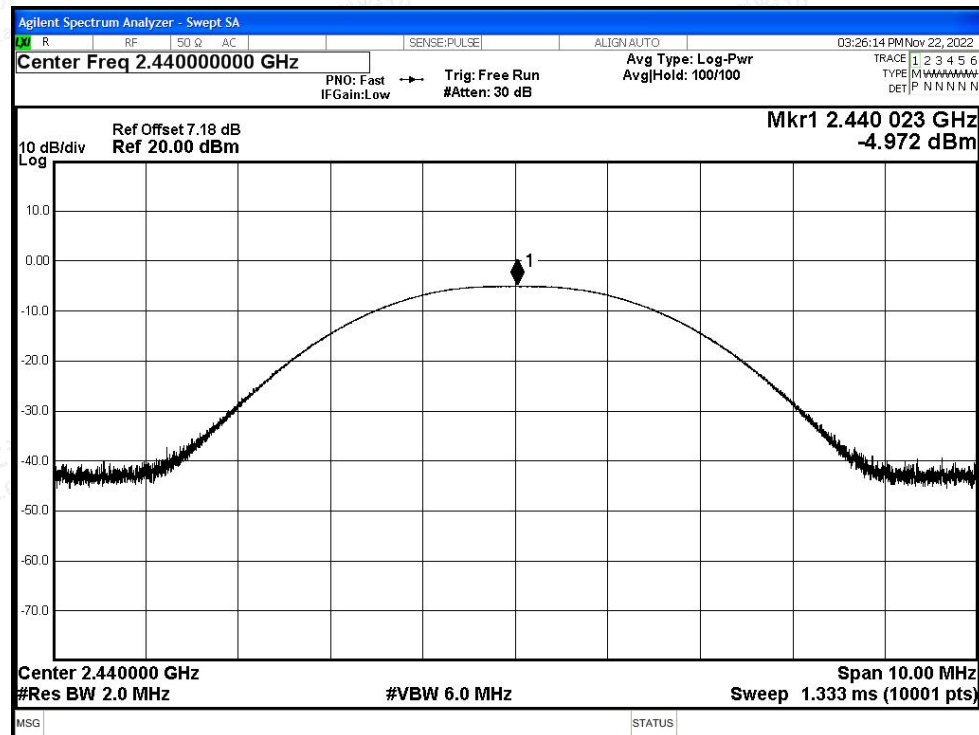


Test Graphs

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1

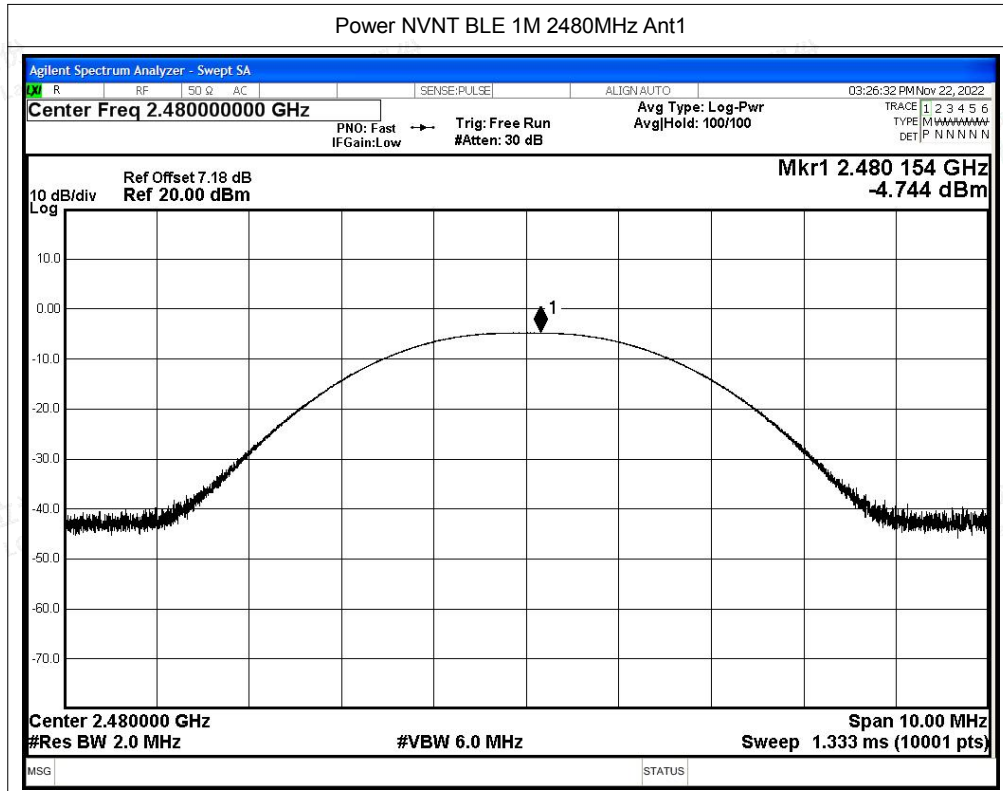


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A.3 Maximum Power Spectral Density Level

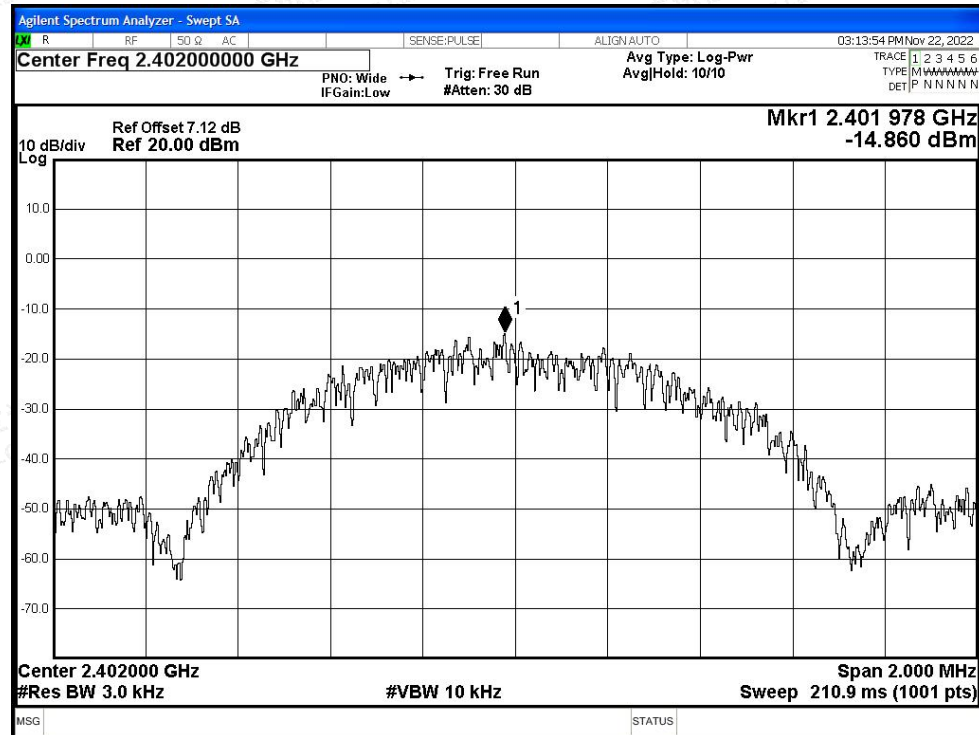
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-14.86	0	-14.86	8	Pass
NVNT	BLE 1M	2440	Ant1	-14.18	0	-14.18	8	Pass
NVNT	BLE 1M	2480	Ant1	-13.93	0	-13.93	8	Pass



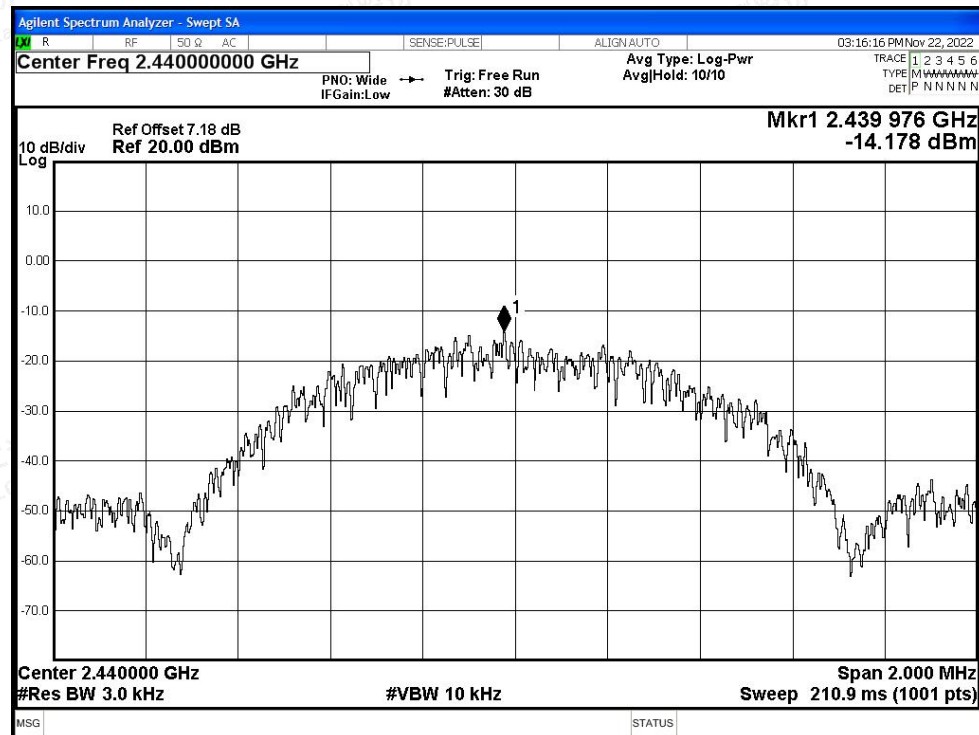


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1

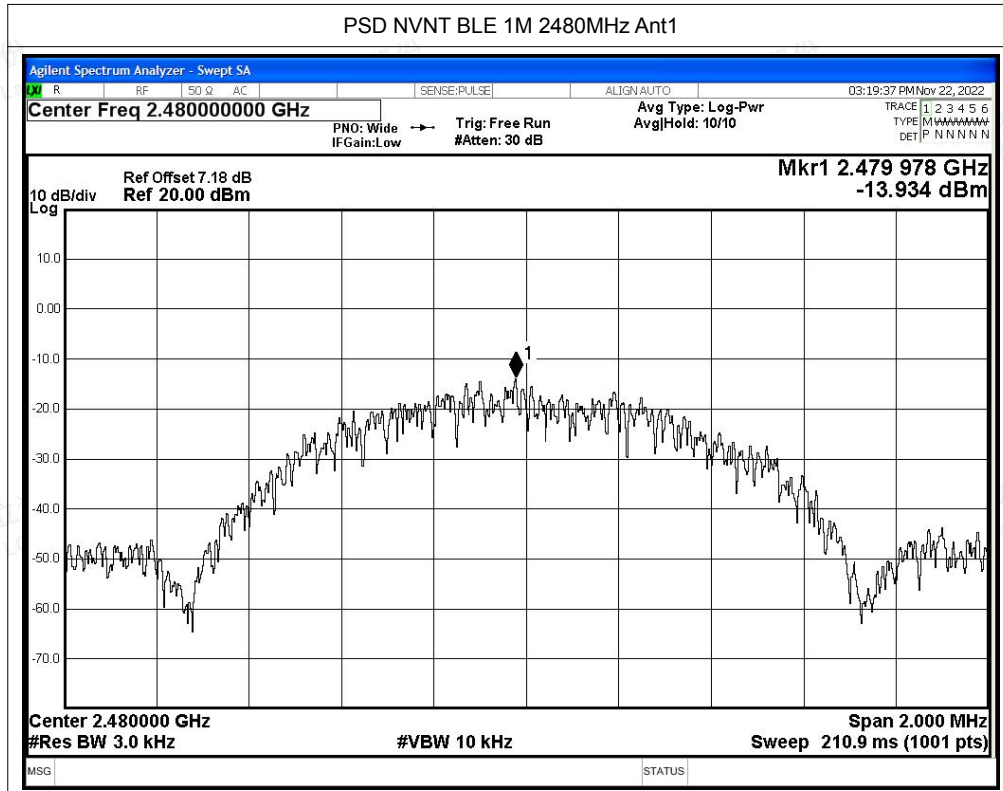


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A.4 Band Edge

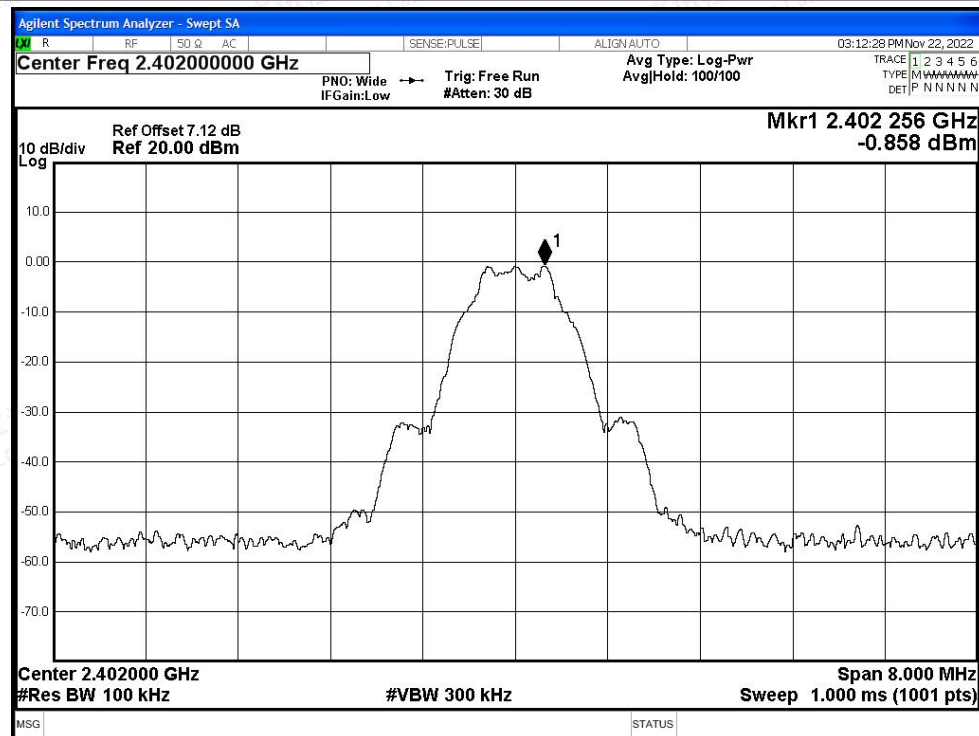
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-50.59	-20	Pass
NVNT	BLE 1M	2480	Ant1	-52.39	-20	Pass



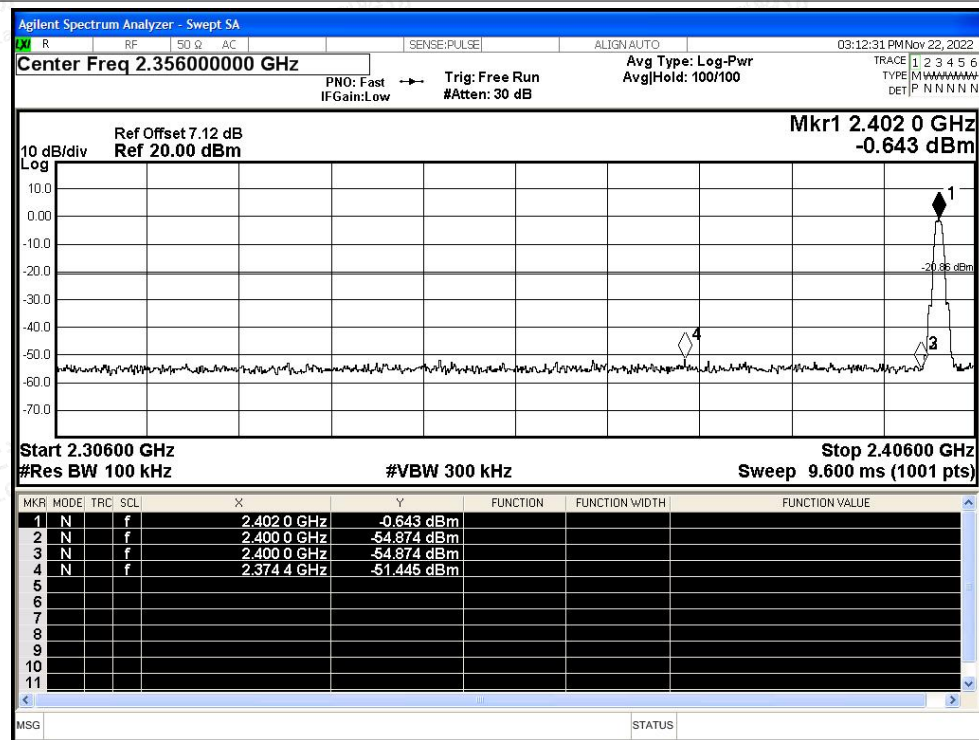


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



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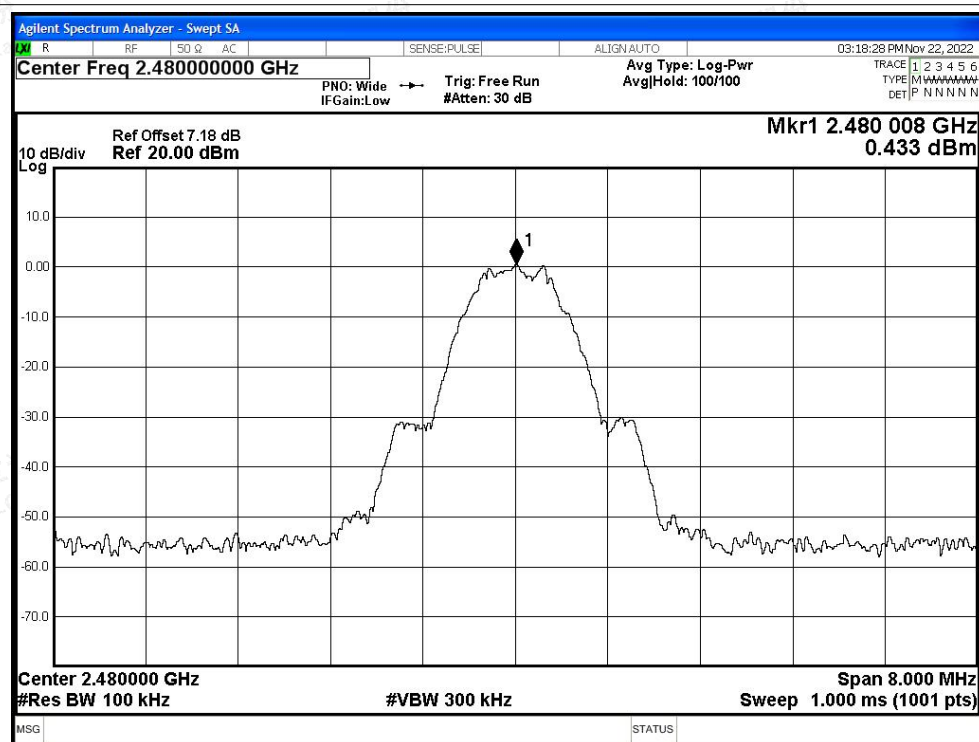
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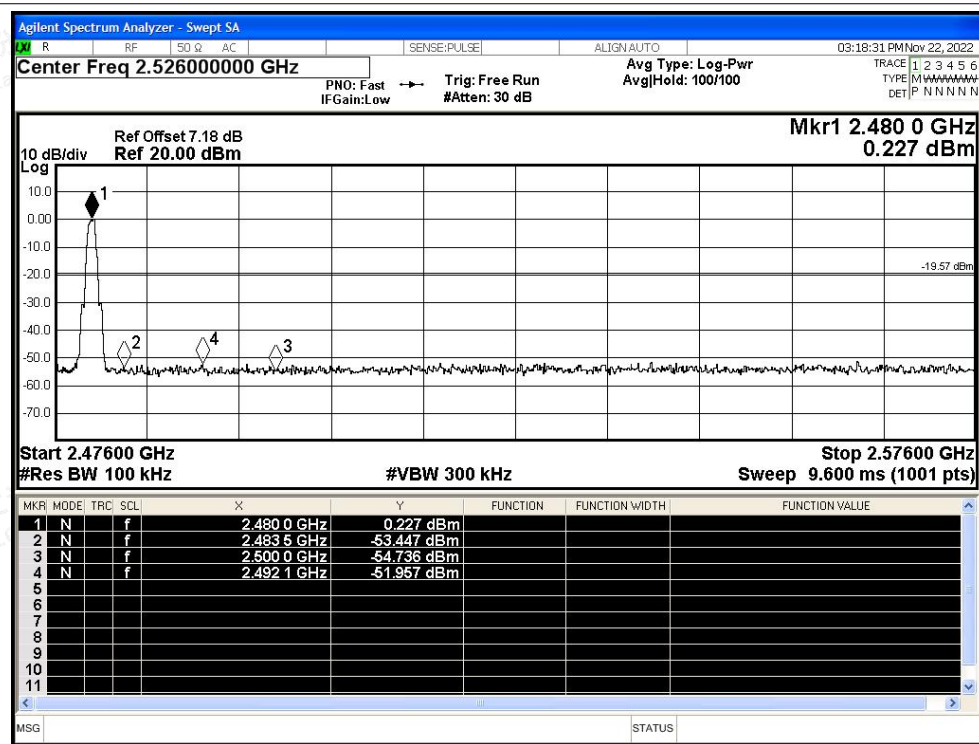
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Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



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A.5 Conducted RF Spurious Emission

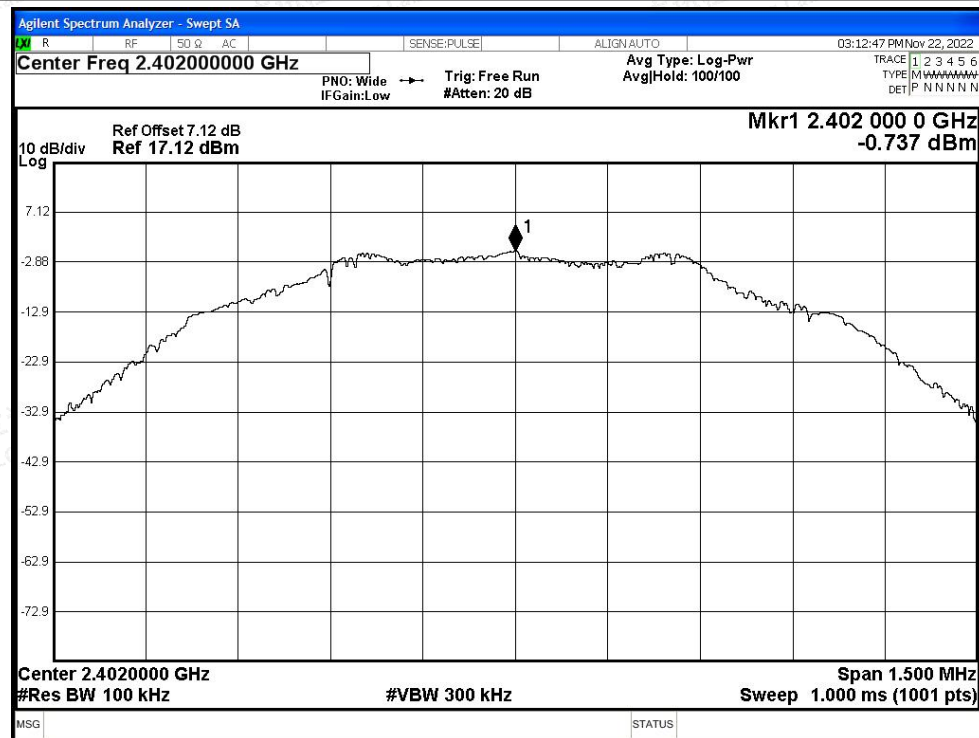
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-49.78	-20	Pass
NVNT	BLE 1M	2440	Ant1	-49.43	-20	Pass
NVNT	BLE 1M	2480	Ant1	-51.13	-20	Pass



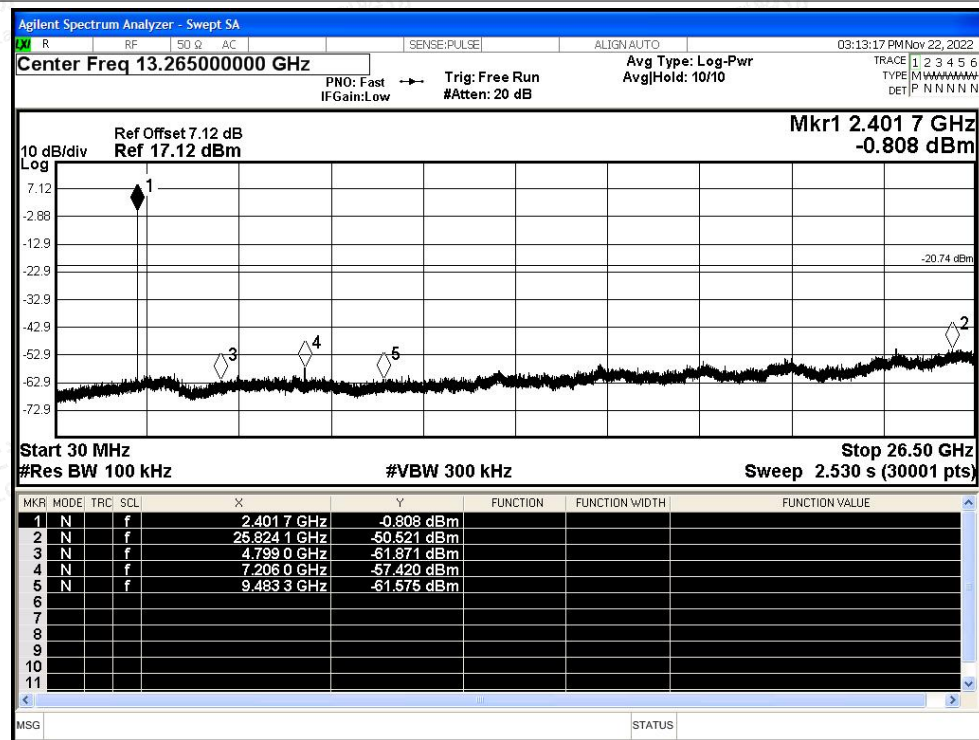


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

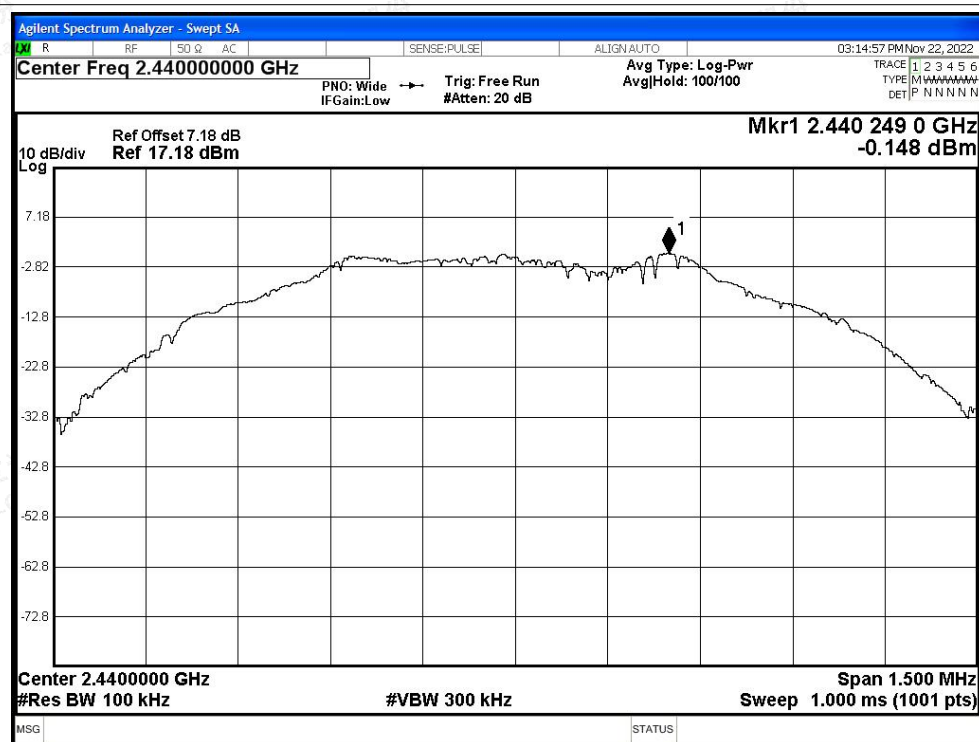
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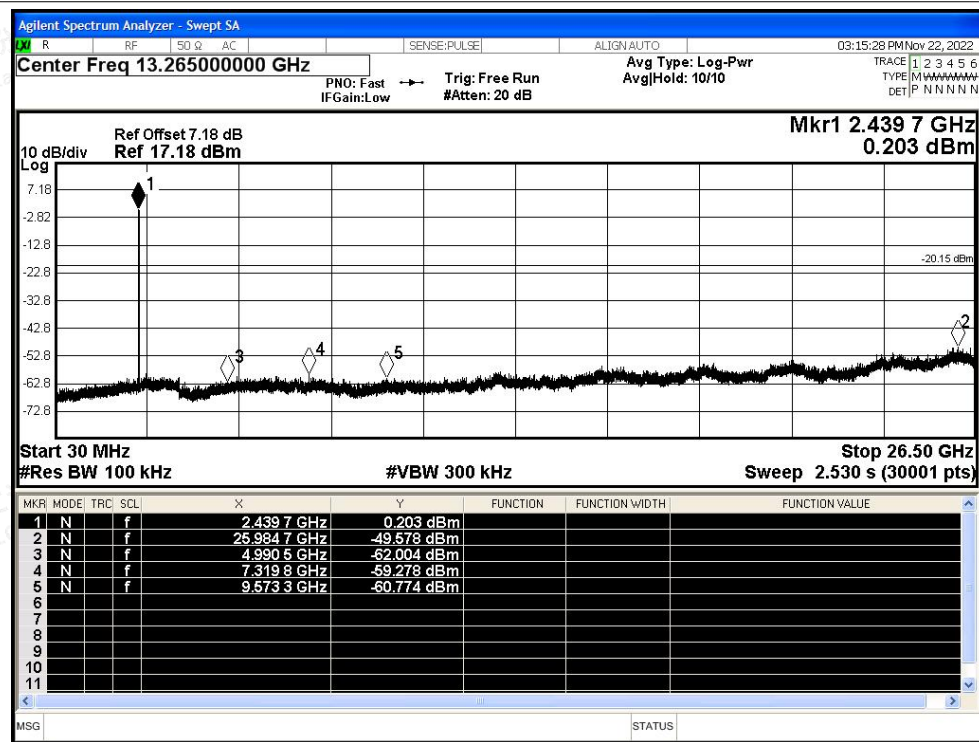
Scan code to check authenticity



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

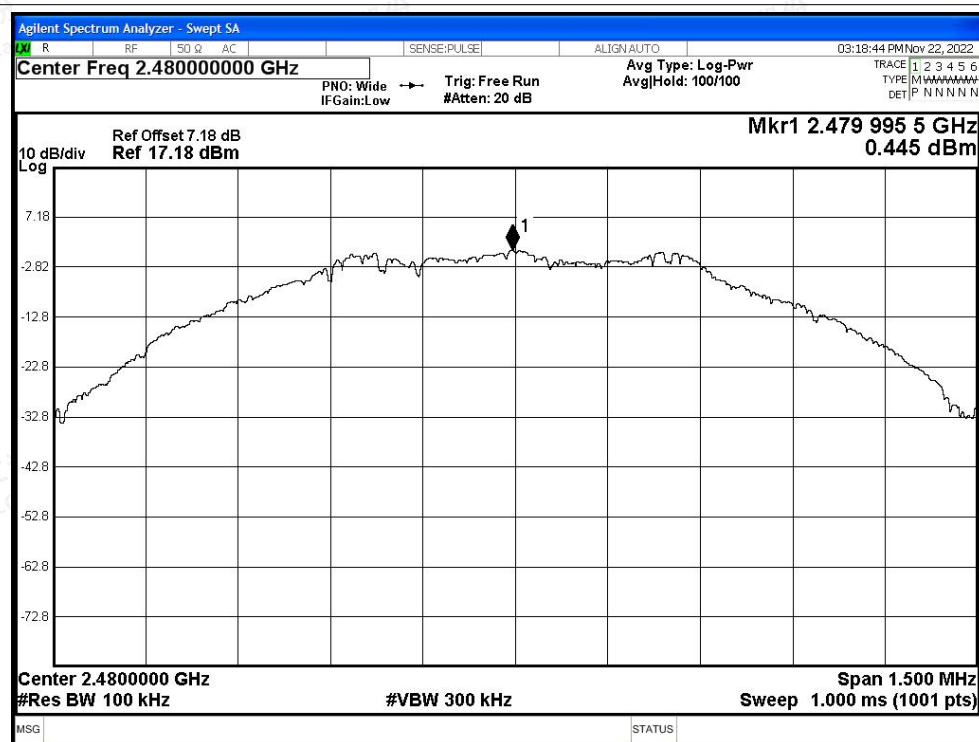
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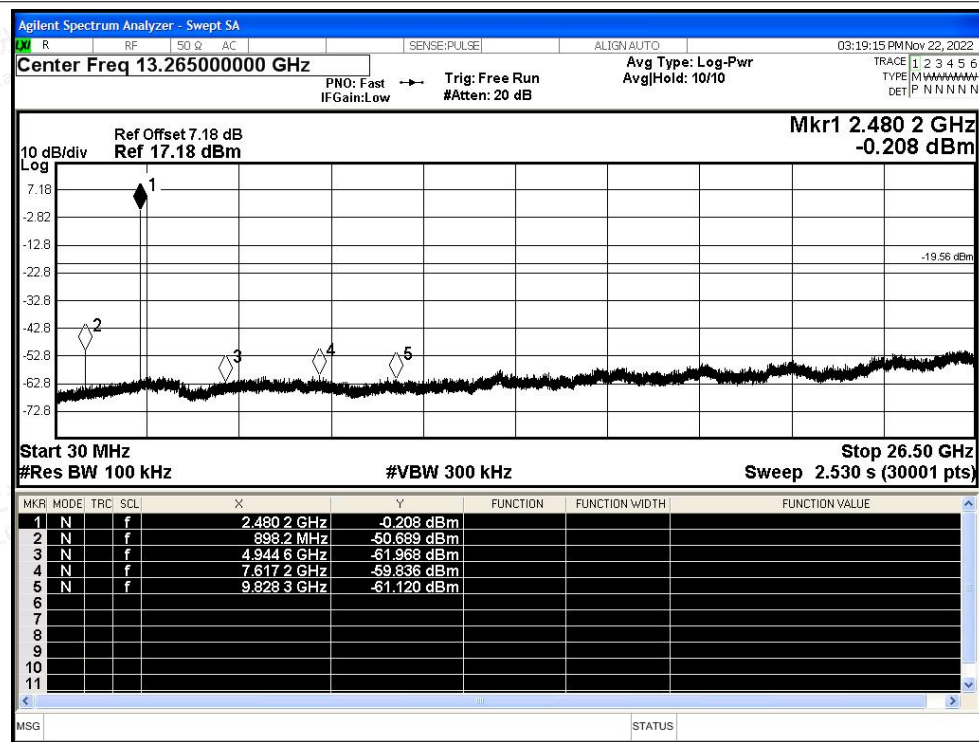
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Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



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A.6 Duty Cycle

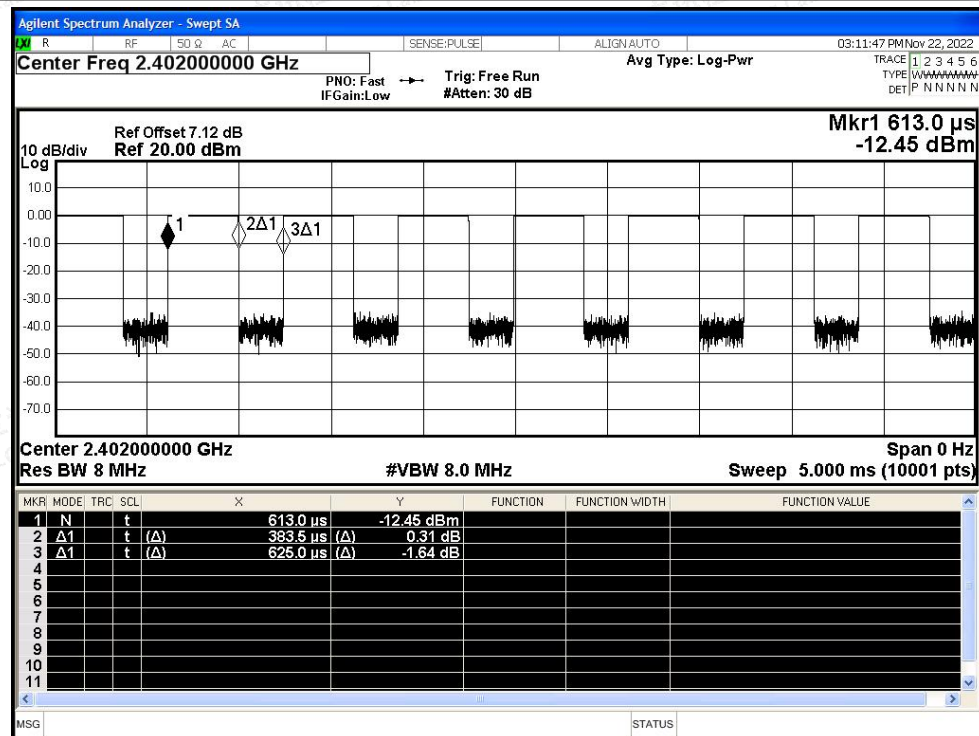
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	61.36	2.12	2.61
NVNT	BLE 1M	2440	Ant1	61.36	2.12	2.61
NVNT	BLE 1M	2480	Ant1	61.36	2.12	2.61



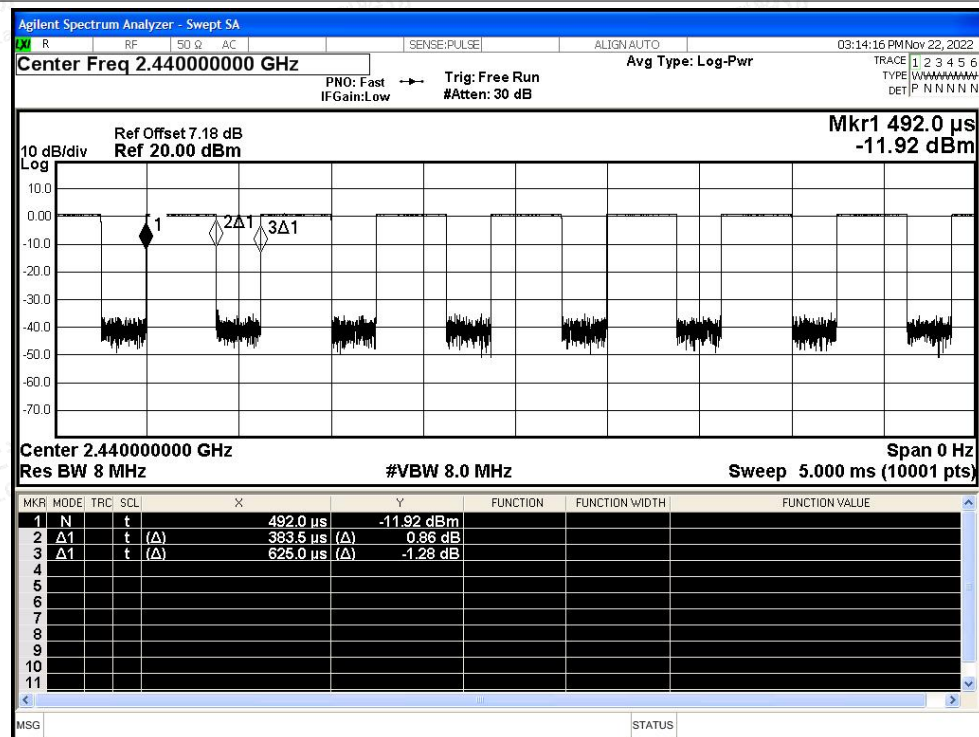


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1



Duty Cycle NVNT BLE 1M 2440MHz Ant1

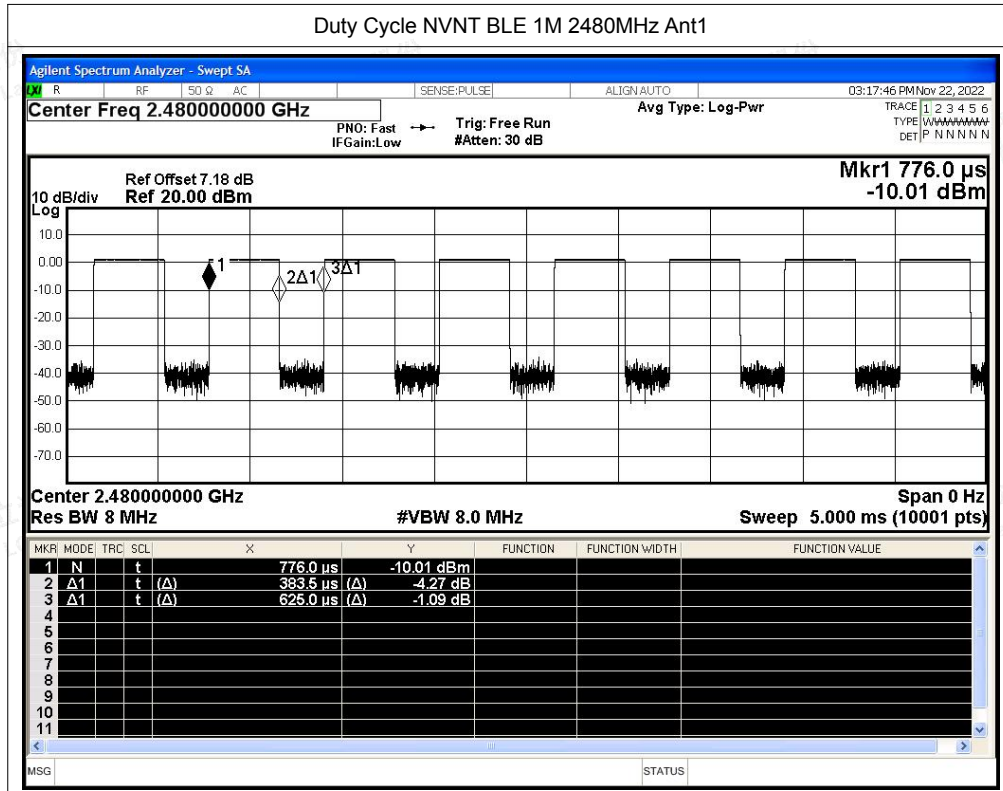


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A.7 Restrict Band

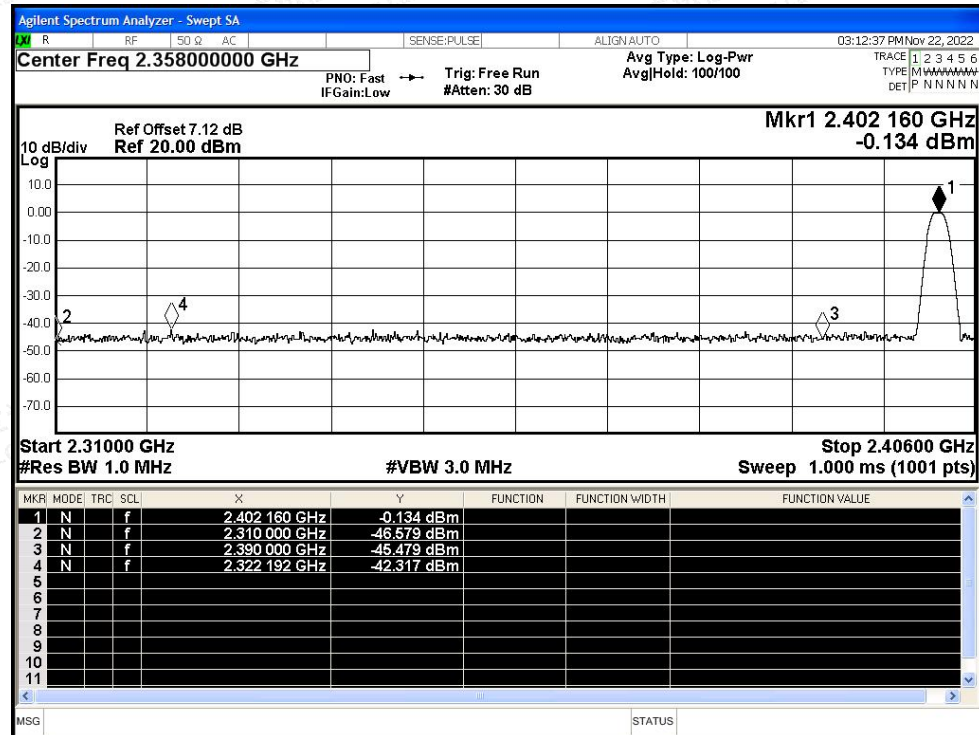
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1M	2402	Ant1	2310	-46.58	2.089	50.77	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-54.74	2.089	42.61	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2322.192	-42.32	2.089	55.03	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2376.048	-53.59	2.089	43.76	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-45.48	2.089	51.87	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-53.92	2.089	43.43	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-45.24	2.089	52.11	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-54.04	2.089	43.31	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2495.968	-42.29	2.089	55.06	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2485.864	-53.39	2.089	43.96	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-44.48	2.089	52.87	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-53.9	2.089	43.45	Average	54	Pass



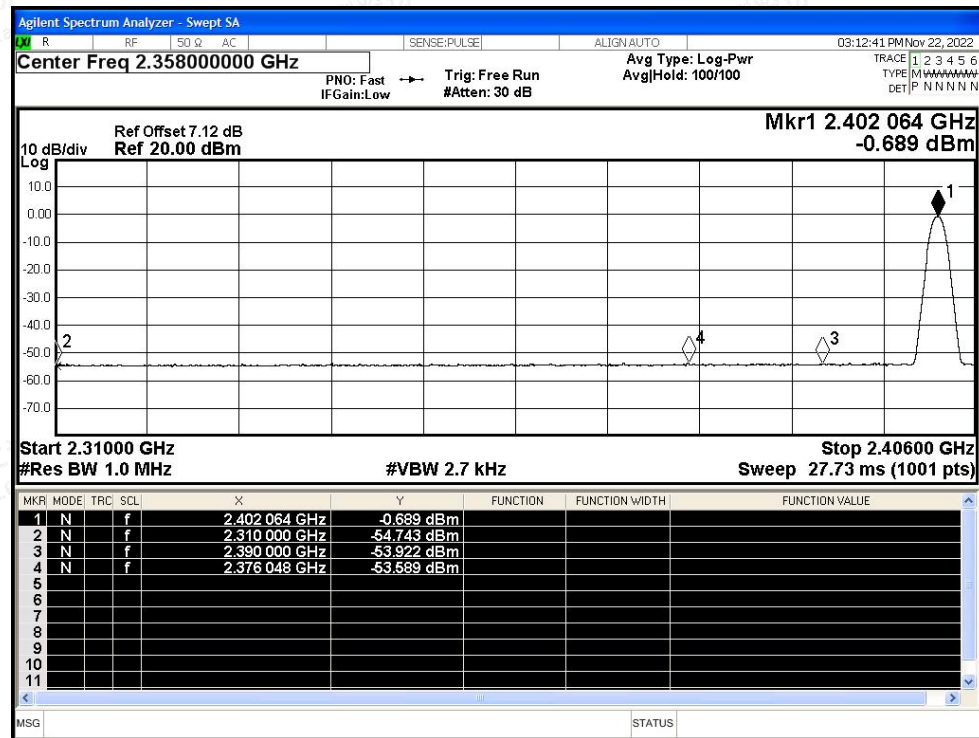


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant1 Average



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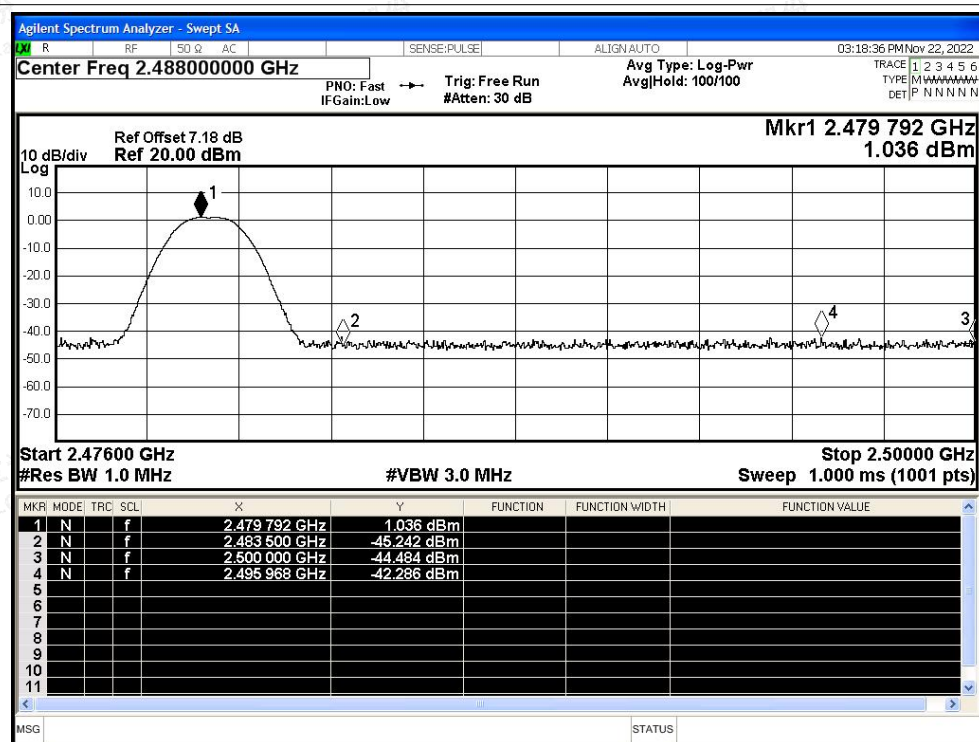
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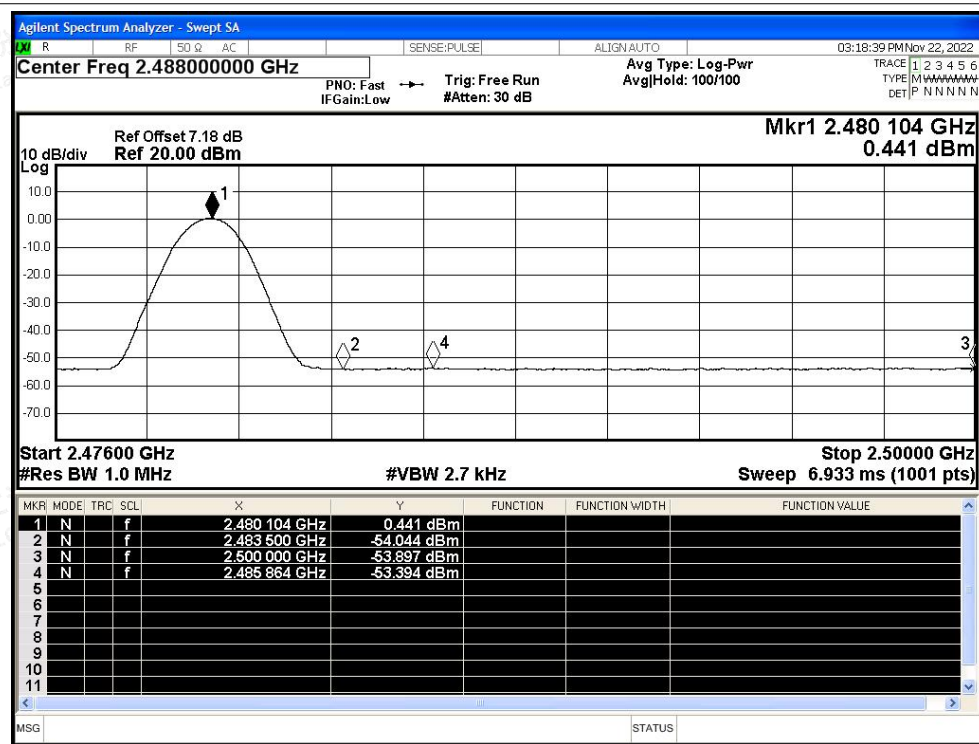
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Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2480MHz Ant1 Average



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