



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: Smart Steam Eye Massager Air

Test Model: ECP-04

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Nick Peng
Test Engineer:	Ling Zhu





B.1 -6dB Bandwidth

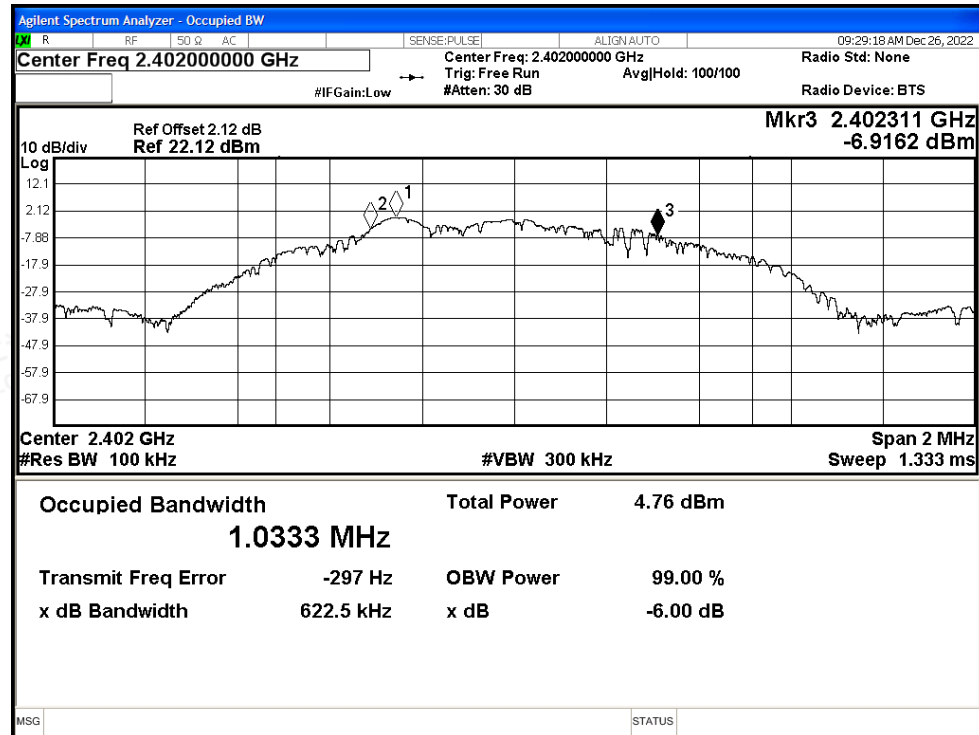
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.622	≥ 0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.616	≥ 0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.612	≥ 0.5	Pass



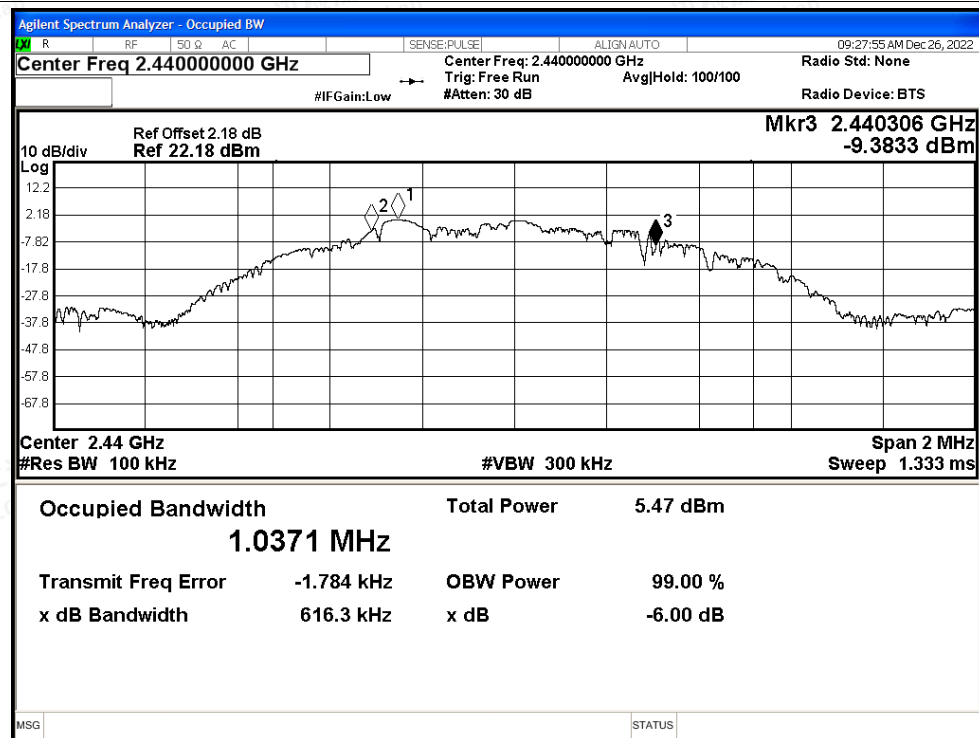


Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1

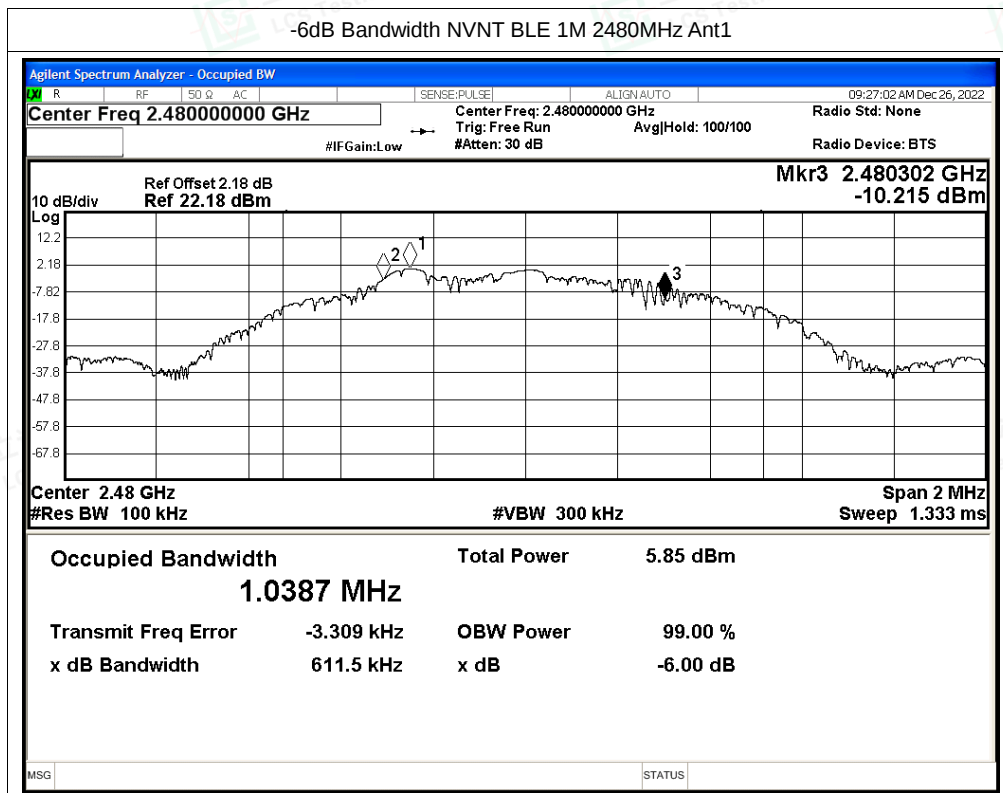


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B.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-0.22	30	Pass
NVNT	BLE 1M	2440	Ant1	0.52	30	Pass
NVNT	BLE 1M	2480	Ant1	0.92	30	Pass



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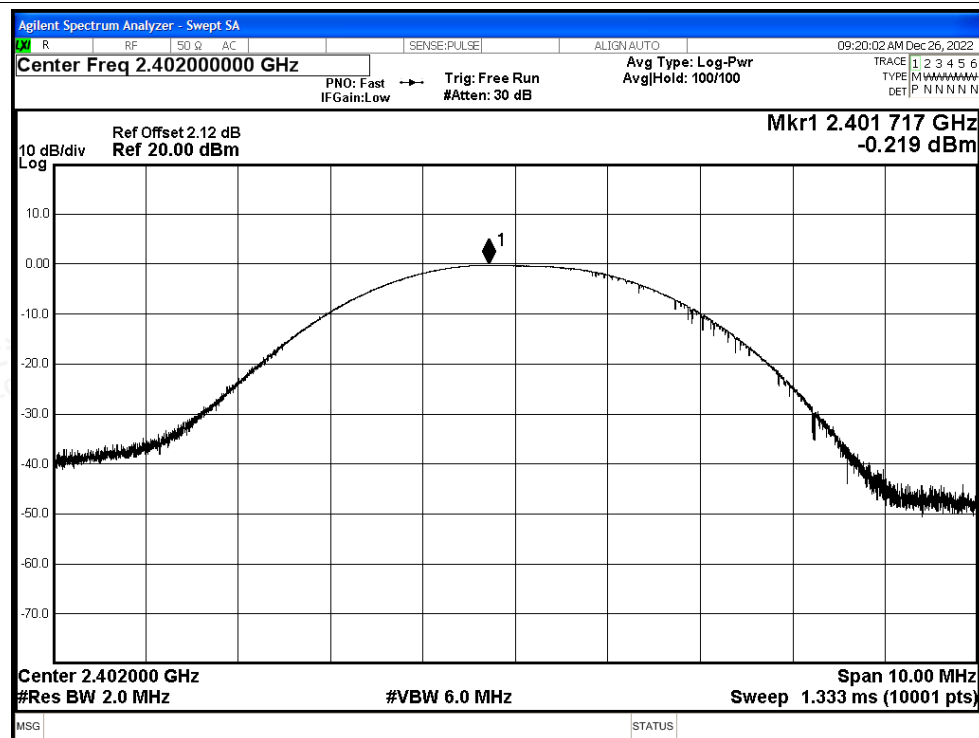
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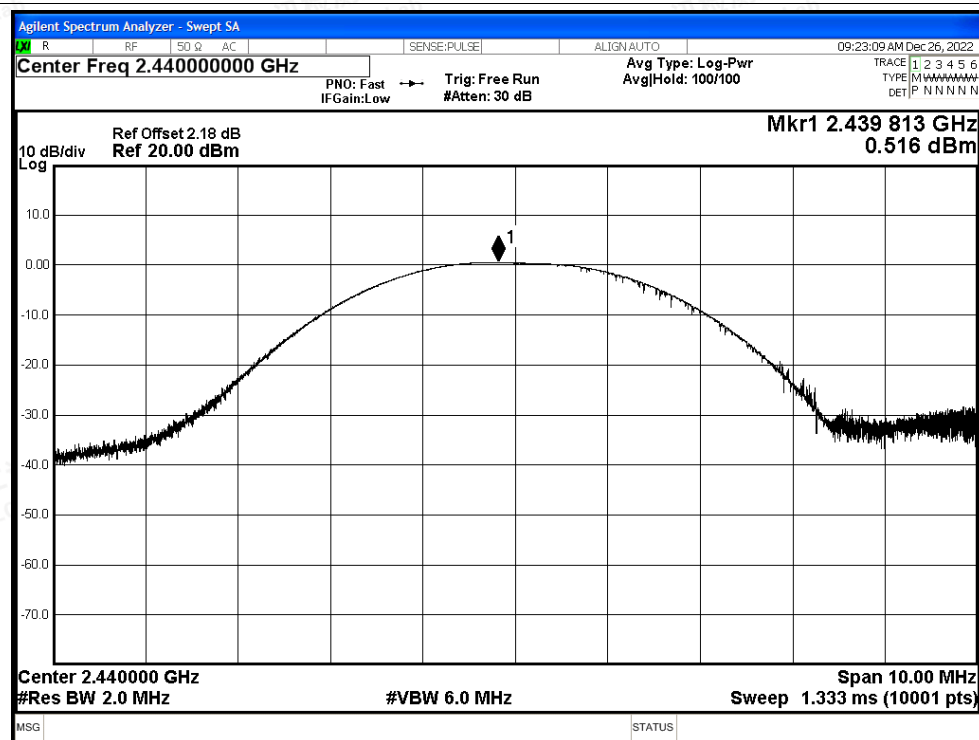


Test Graphs

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1

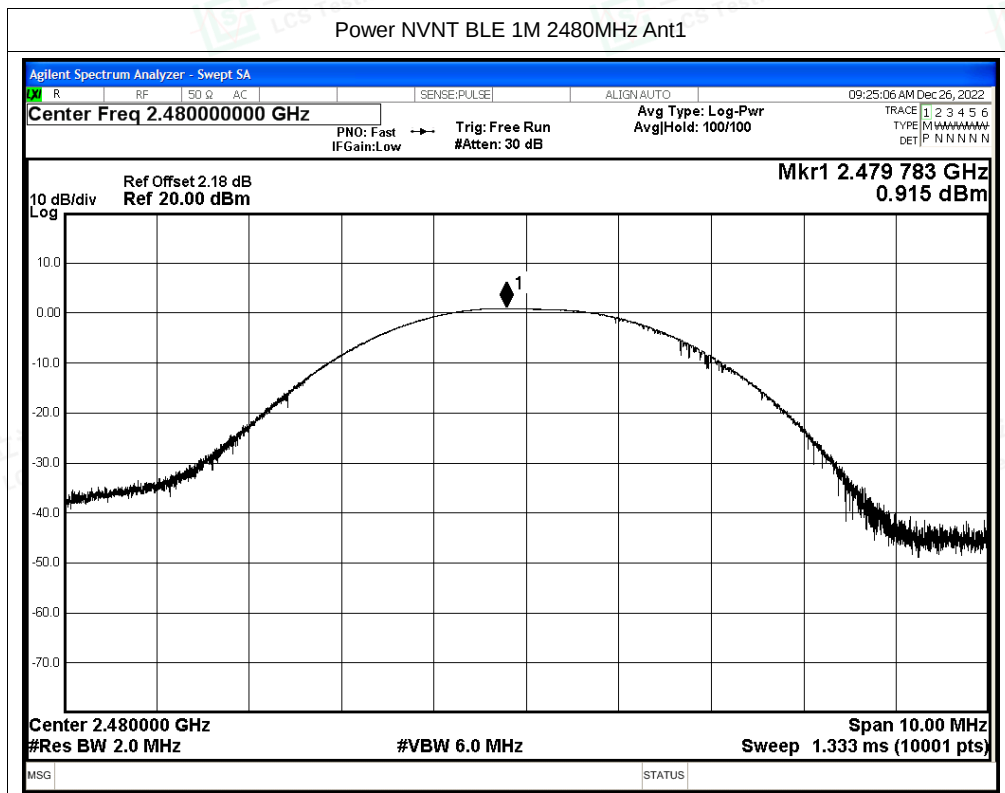


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B.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-18.89	8	Pass
NVNT	BLE 1M	2440	Ant1	-18.12	8	Pass
NVNT	BLE 1M	2480	Ant1	-17.73	8	Pass



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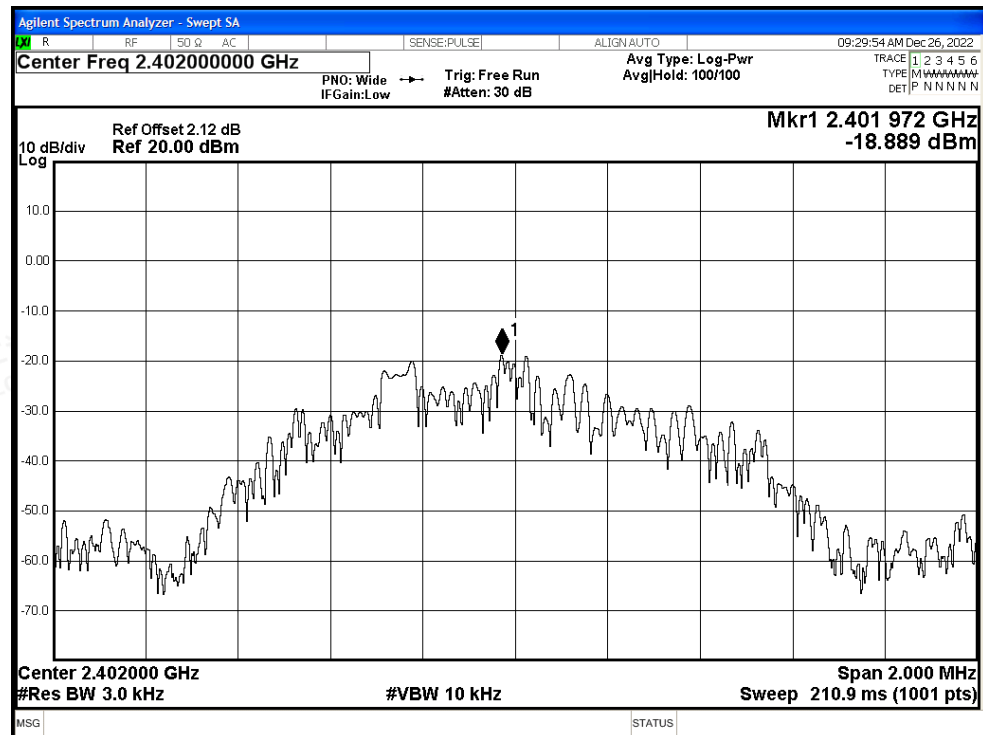
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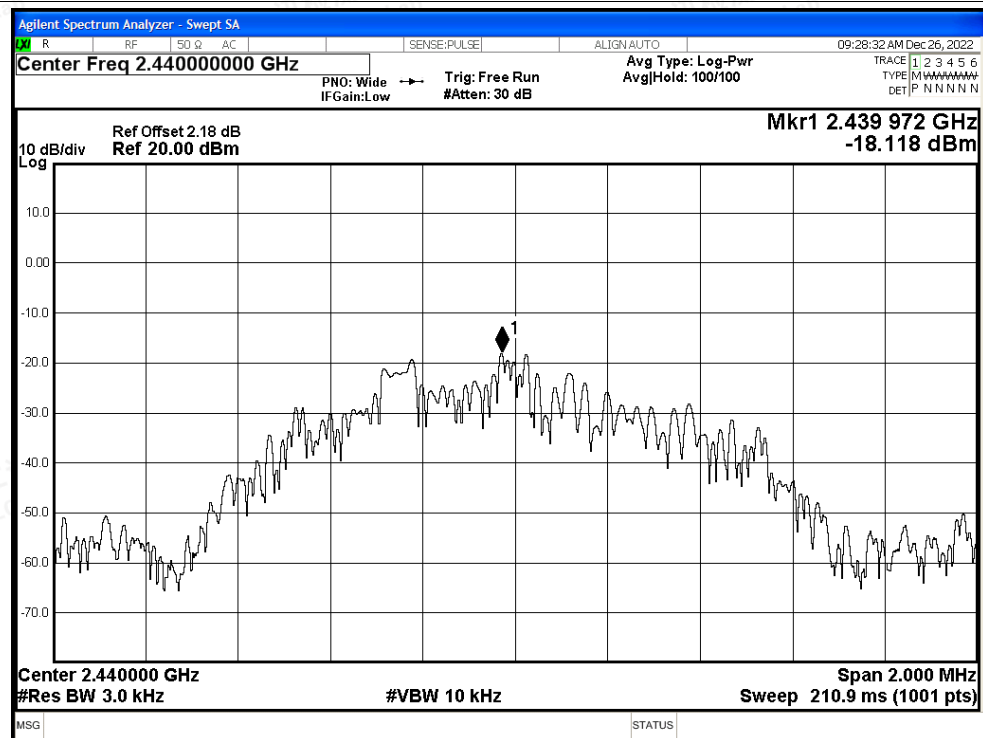


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1

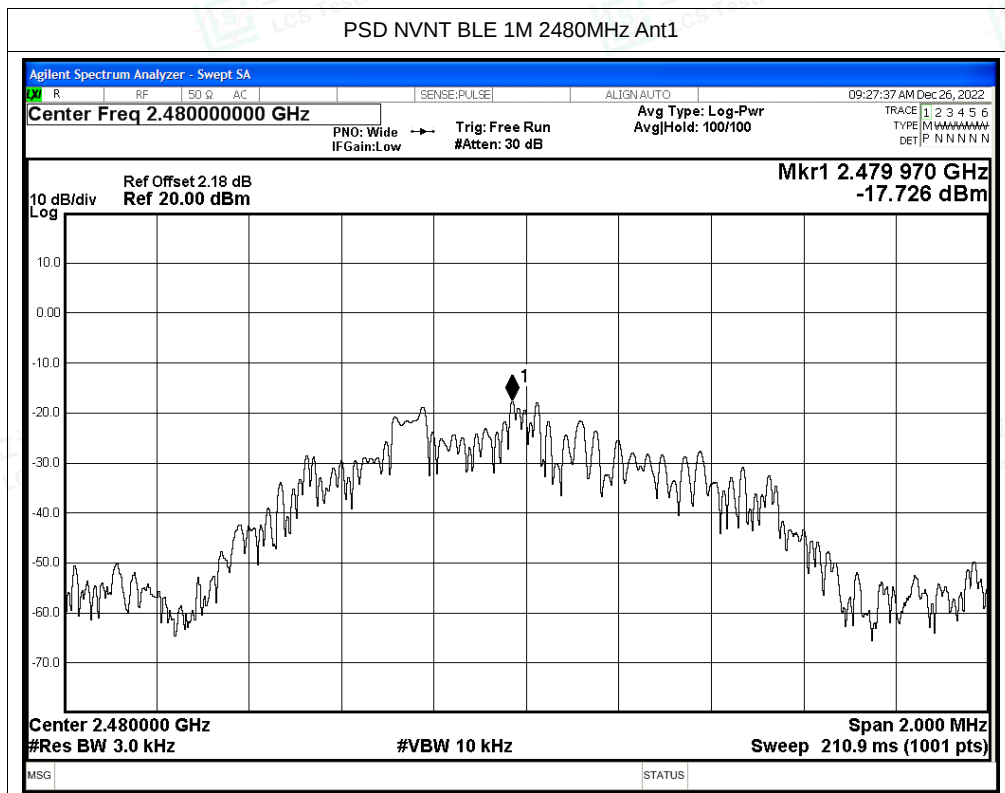


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B.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-41.5	-20	Pass
NVNT	BLE 1M	2480	Ant1	-50.86	-20	Pass



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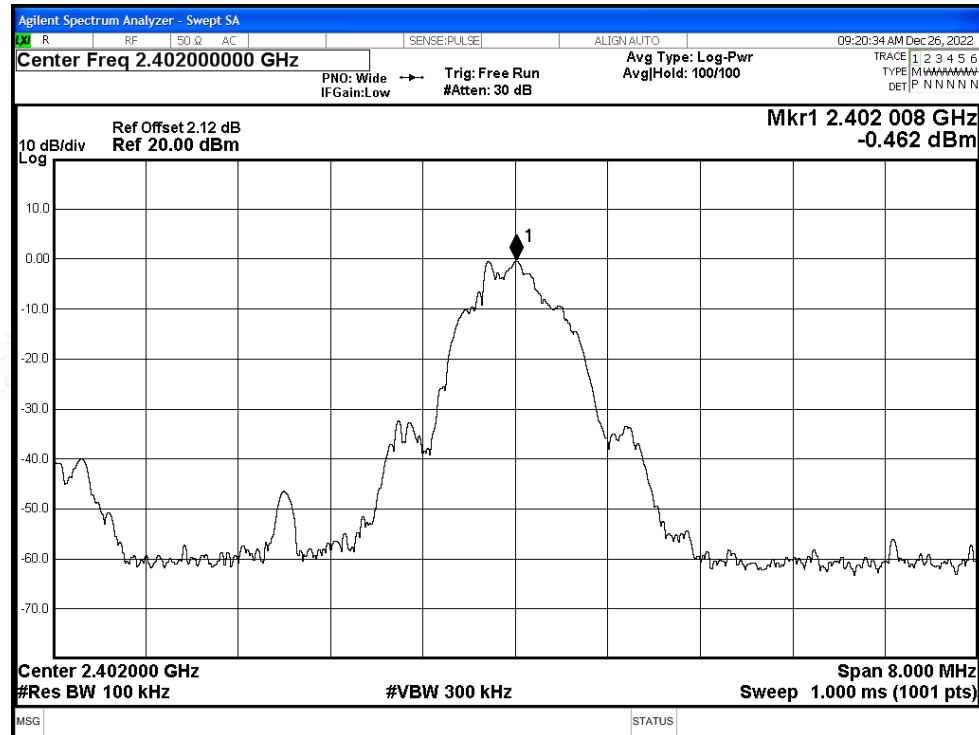
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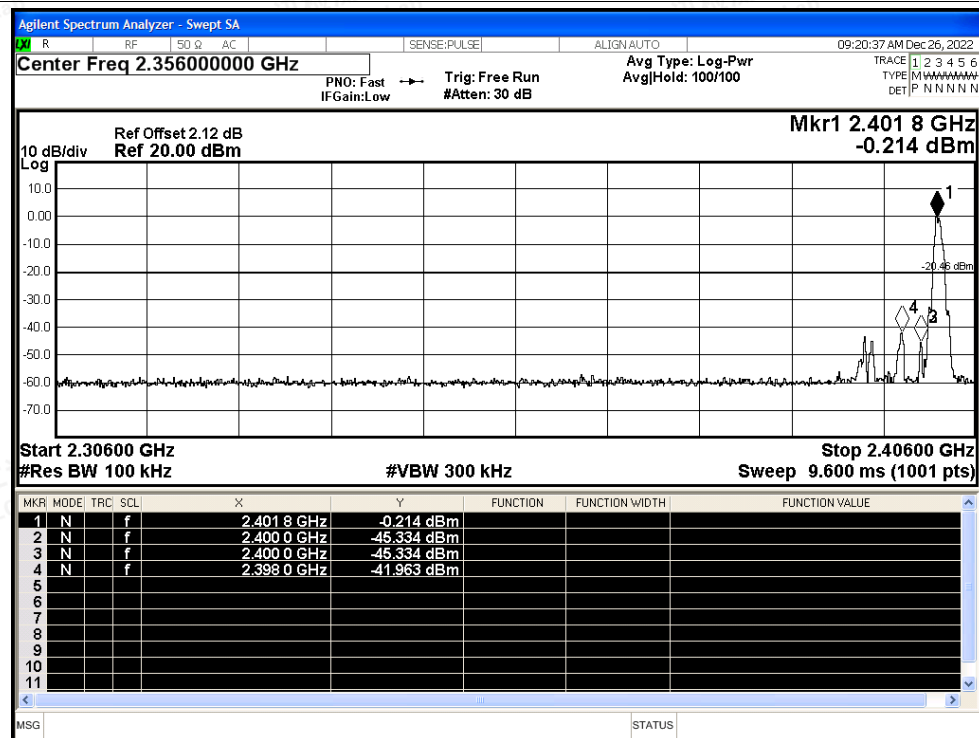


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



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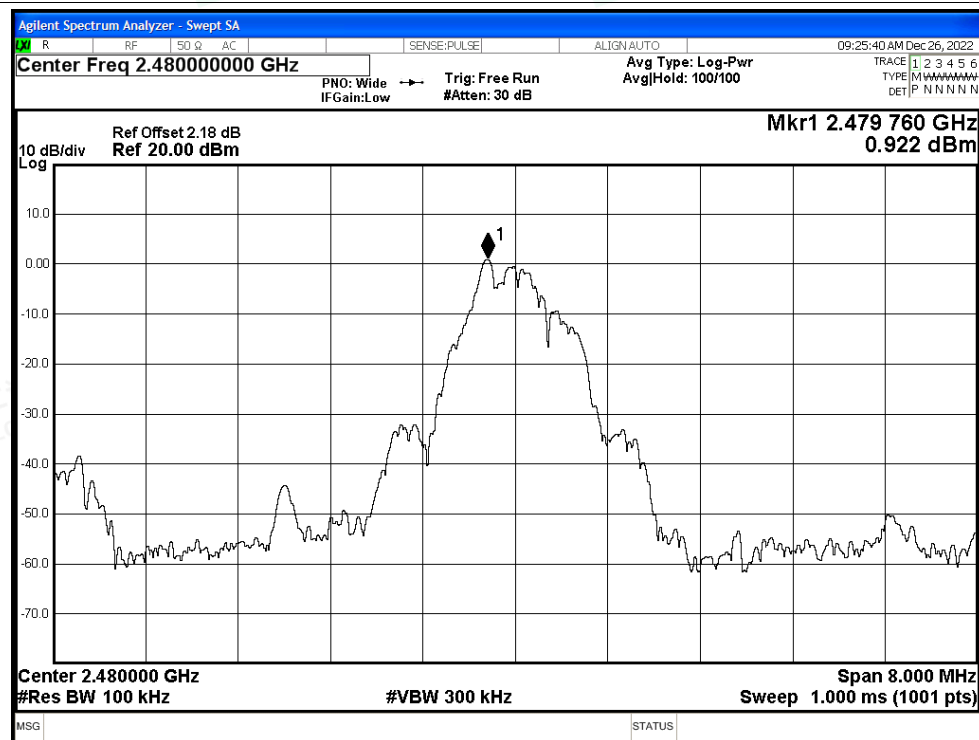
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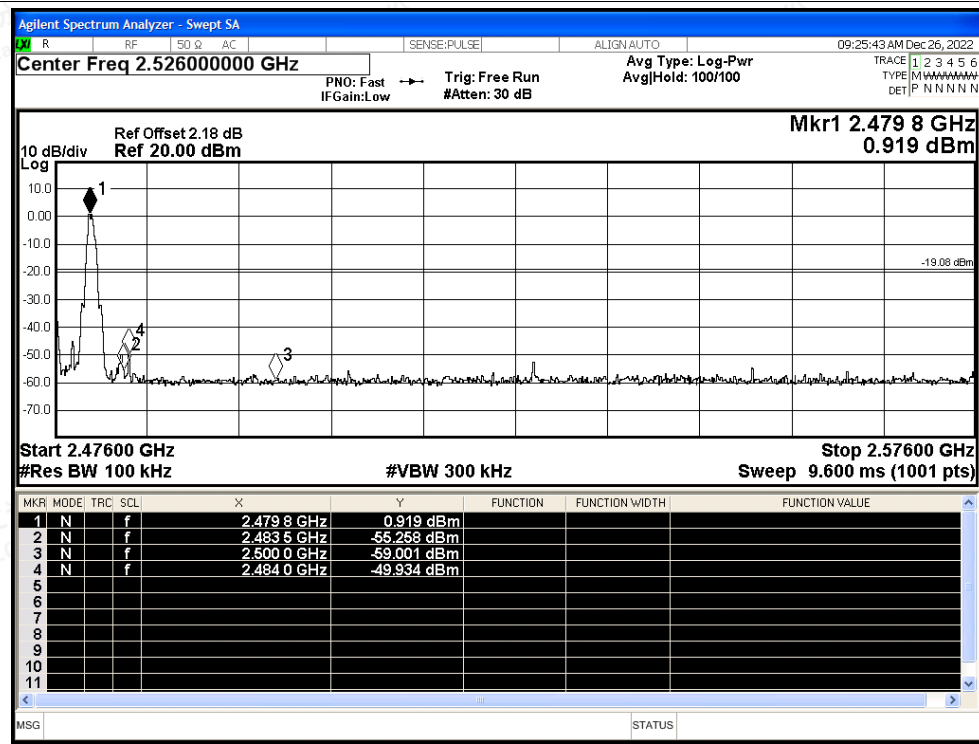
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Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



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B.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-45.78	-20	Pass
NVNT	BLE 1M	2440	Ant1	-42.25	-20	Pass
NVNT	BLE 1M	2480	Ant1	-48.34	-20	Pass



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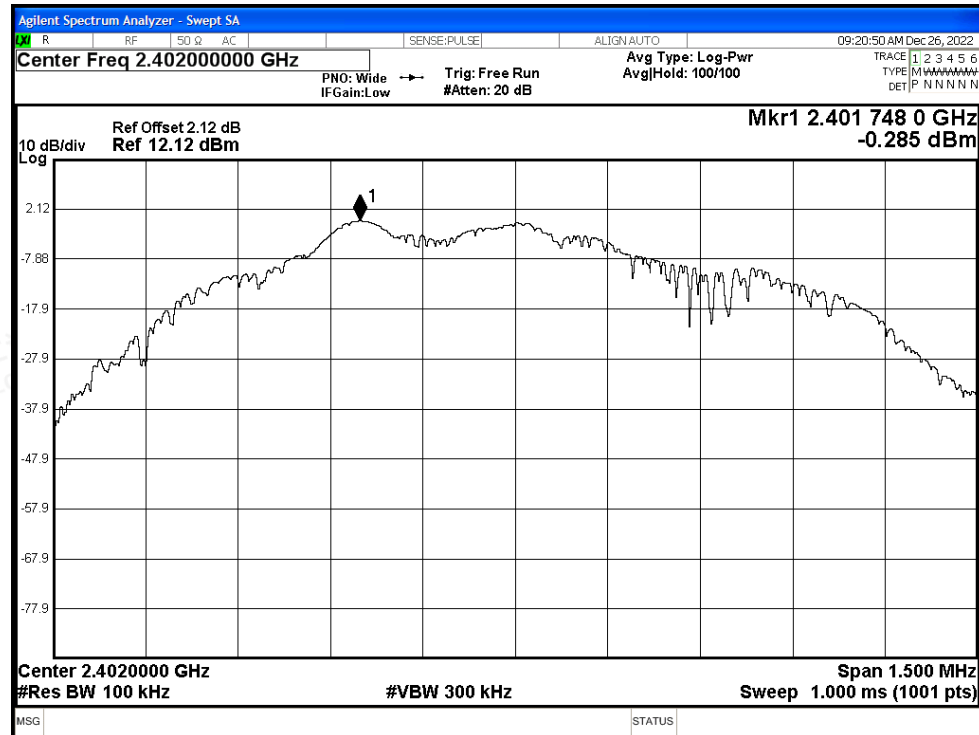
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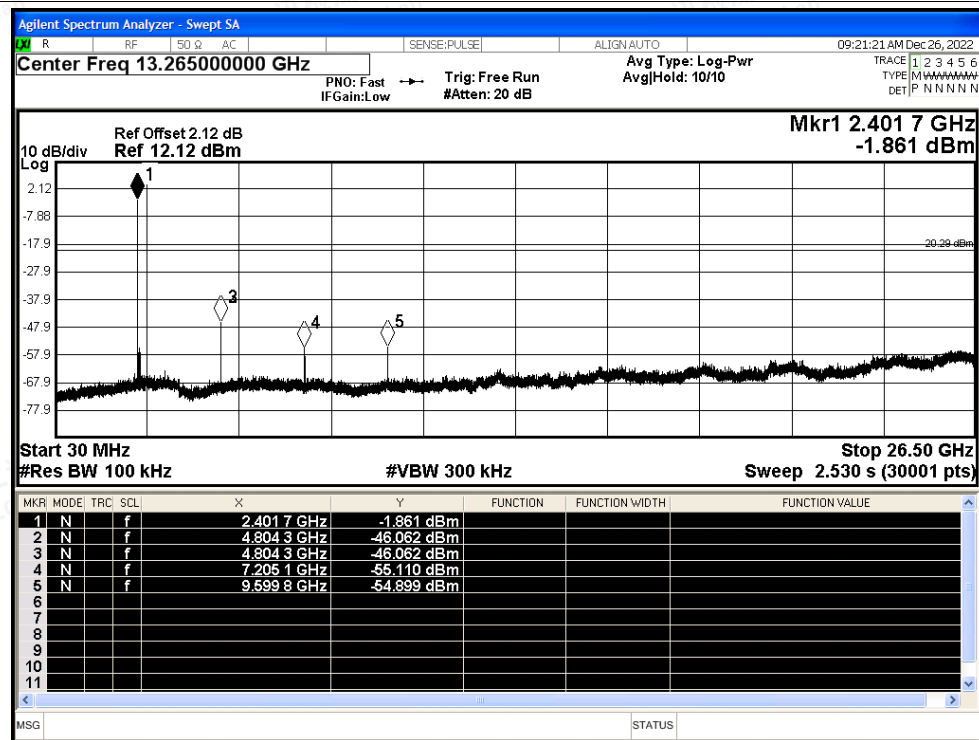


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

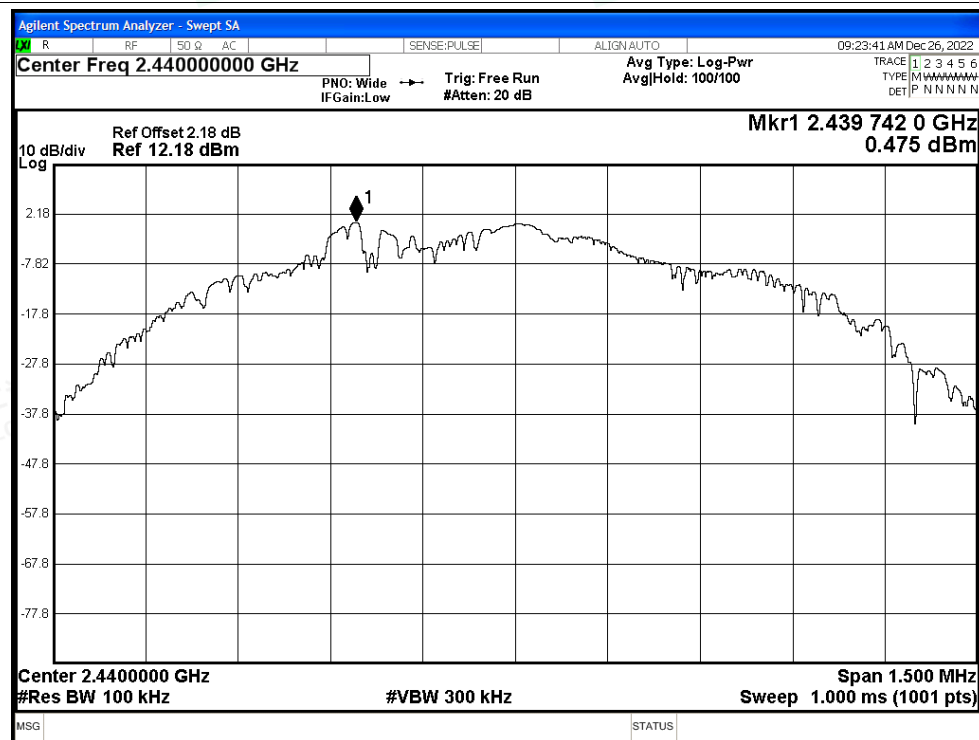
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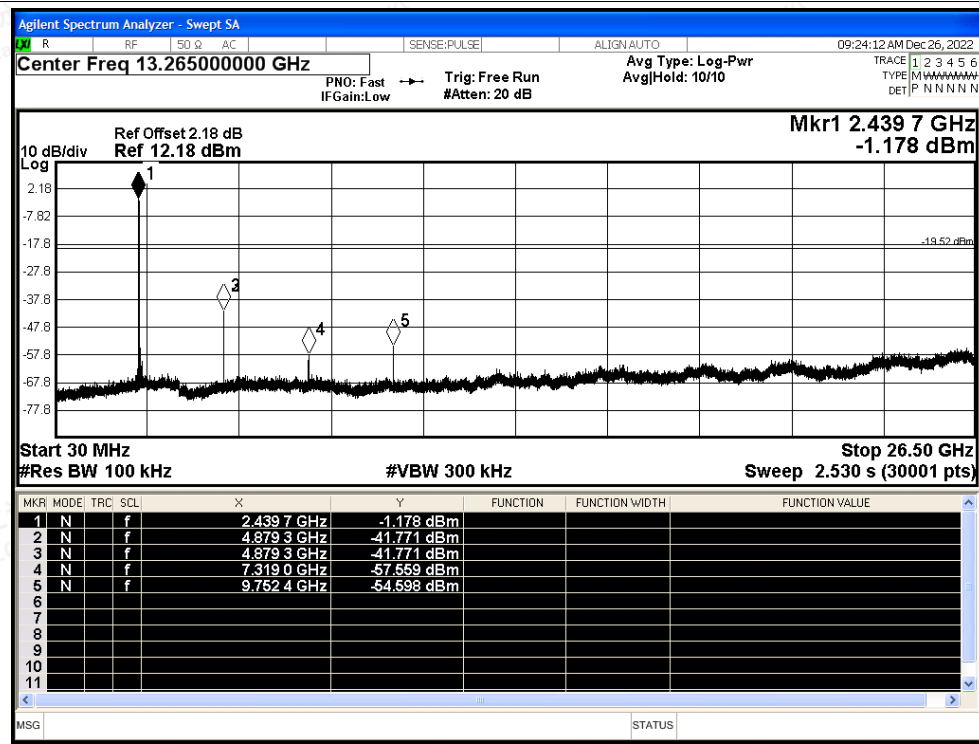
Scan code to check authenticity



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



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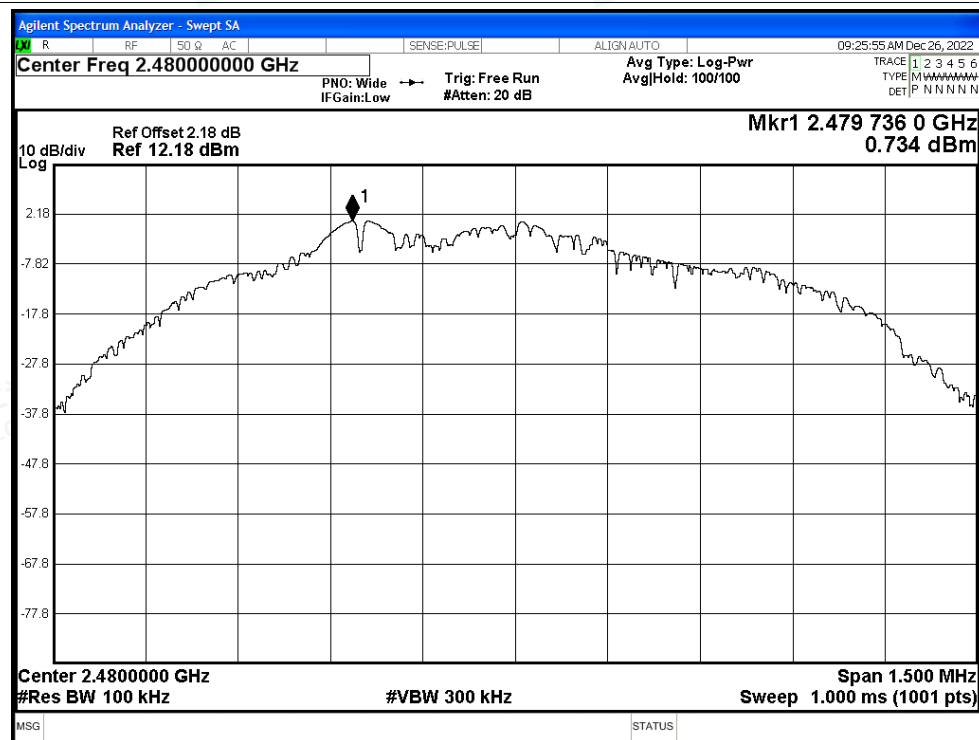
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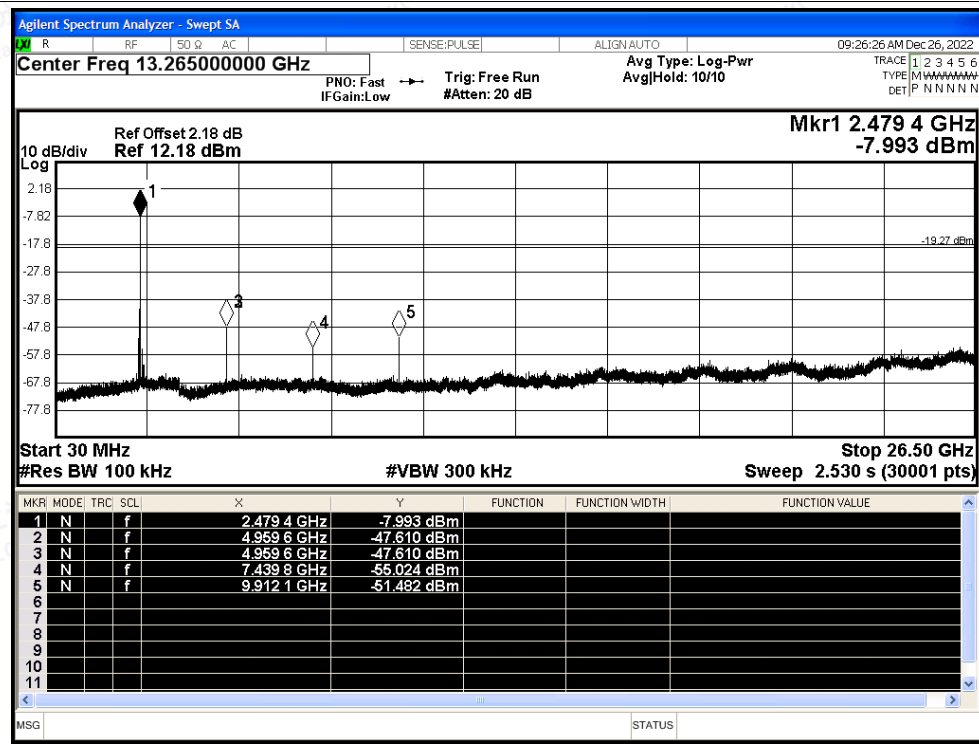
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Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



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B.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	14.64	8.34	10.93
NVNT	BLE 1M	2440	Ant1	14.64	8.34	10.93
NVNT	BLE 1M	2480	Ant1	14.64	8.34	10.93



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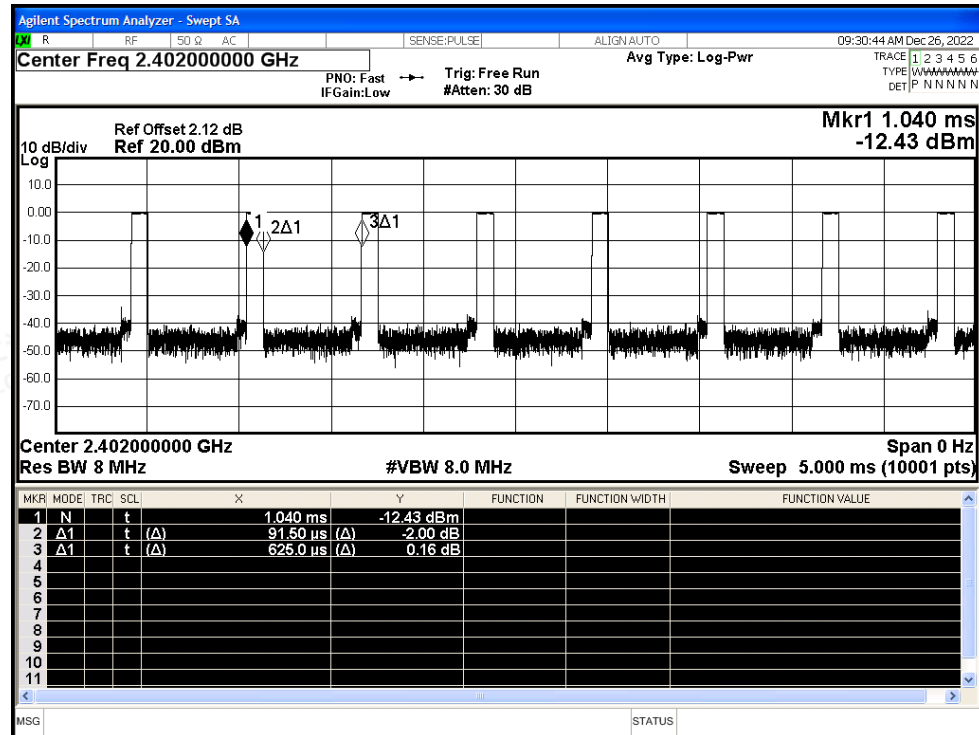
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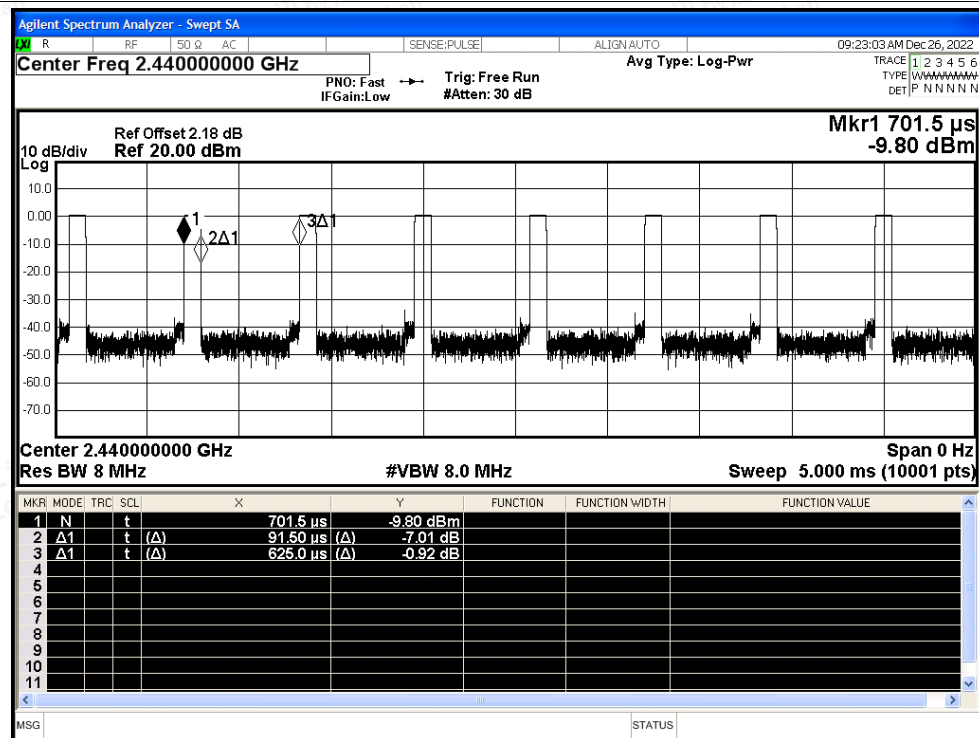


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1



Duty Cycle NVNT BLE 1M 2440MHz Ant1

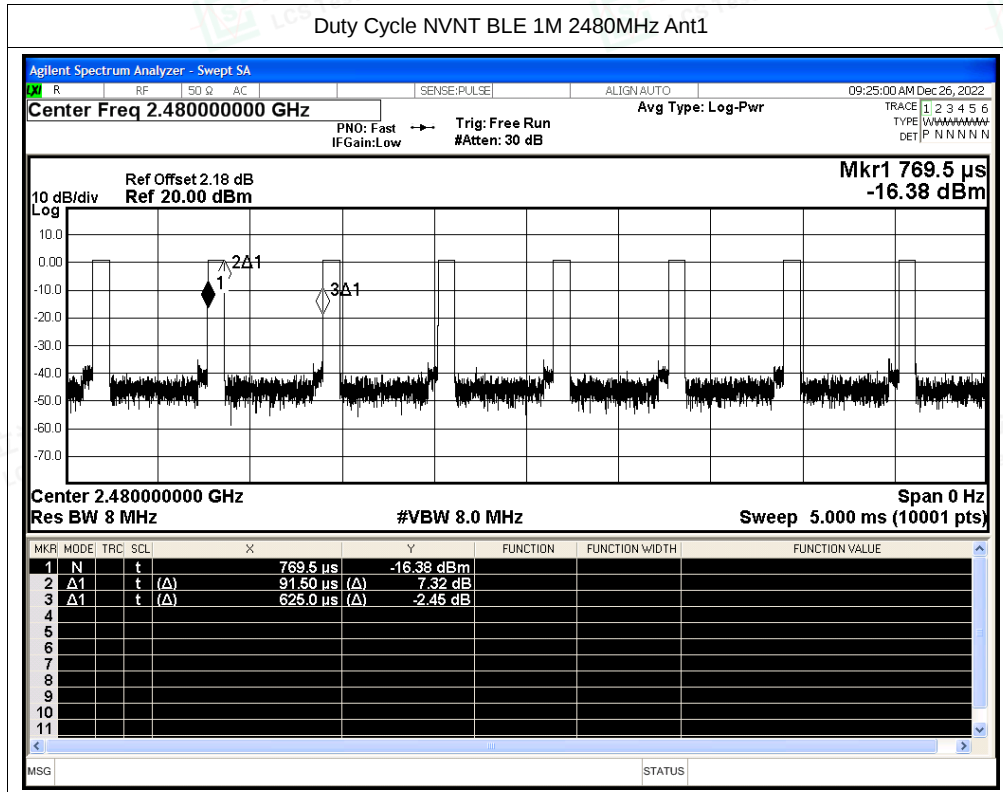


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B.7 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1M	2402	Ant1	2310	-51.18	2	46.08	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-58.37	2	38.89	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2387.472	-47.4	2	49.86	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2354.16	-56.54	2	40.72	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-51.1	2	46.16	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-58.12	2	39.14	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-45.37	2	51.89	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-52.89	2	44.37	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2484.064	-44.04	2	53.22	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.896	-52.24	2	45.02	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-50.03	2	47.23	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-58.43	2	38.83	Average	54	Pass



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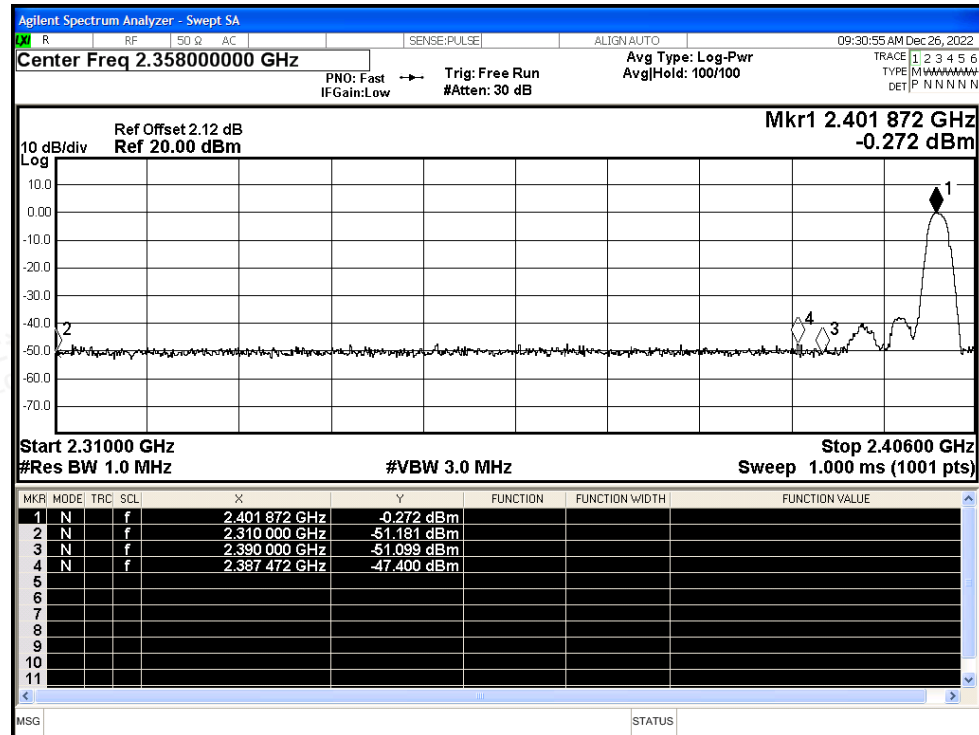
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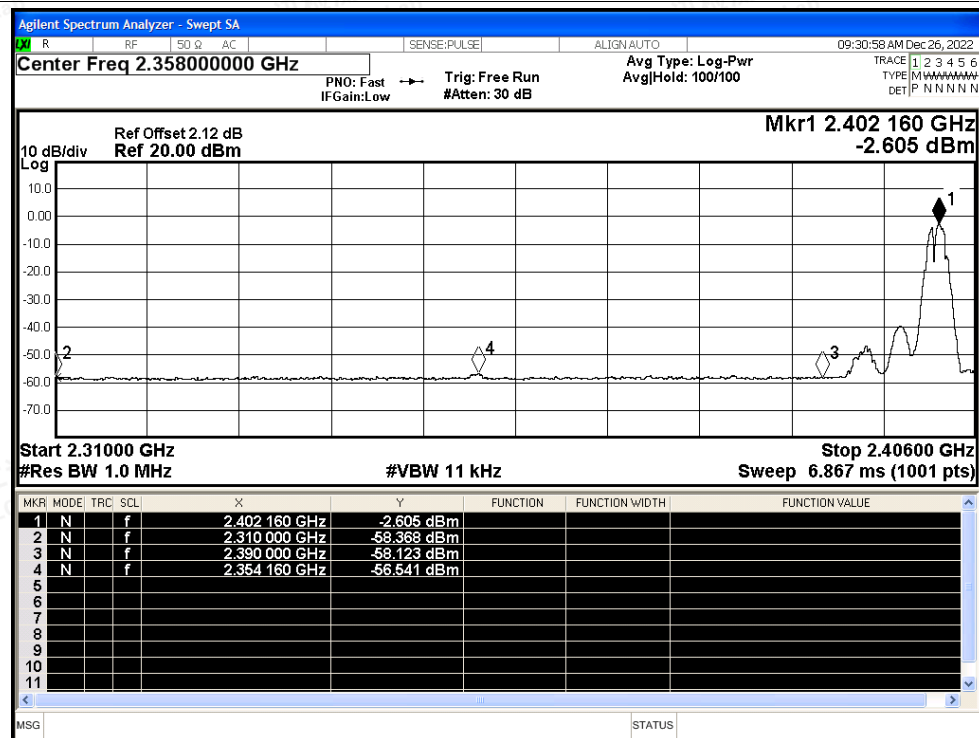


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant1 Average



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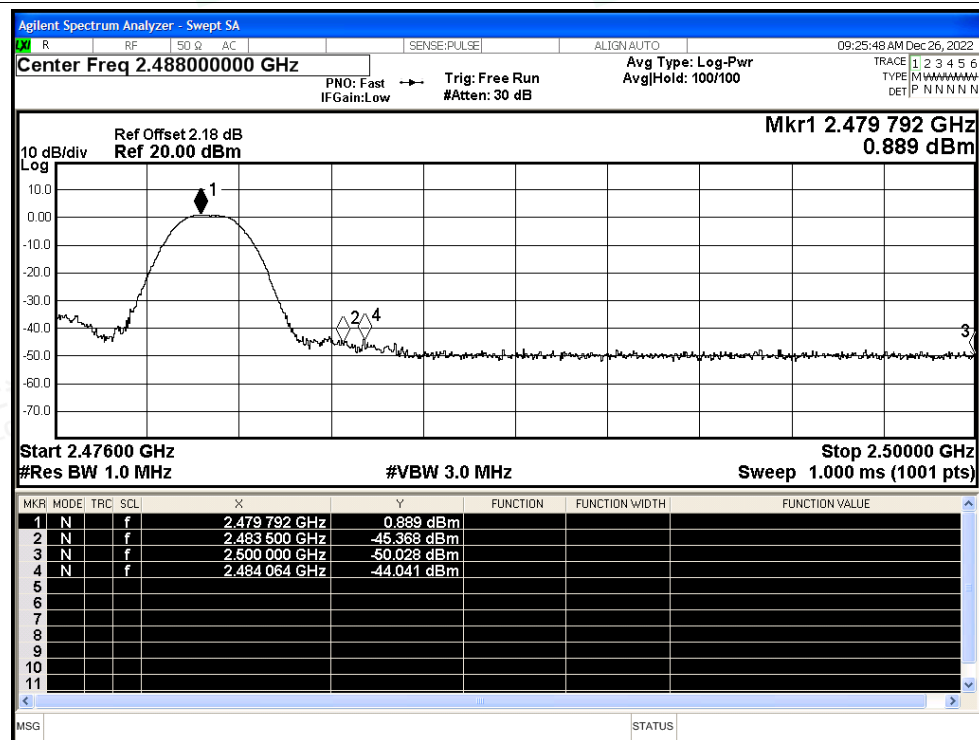
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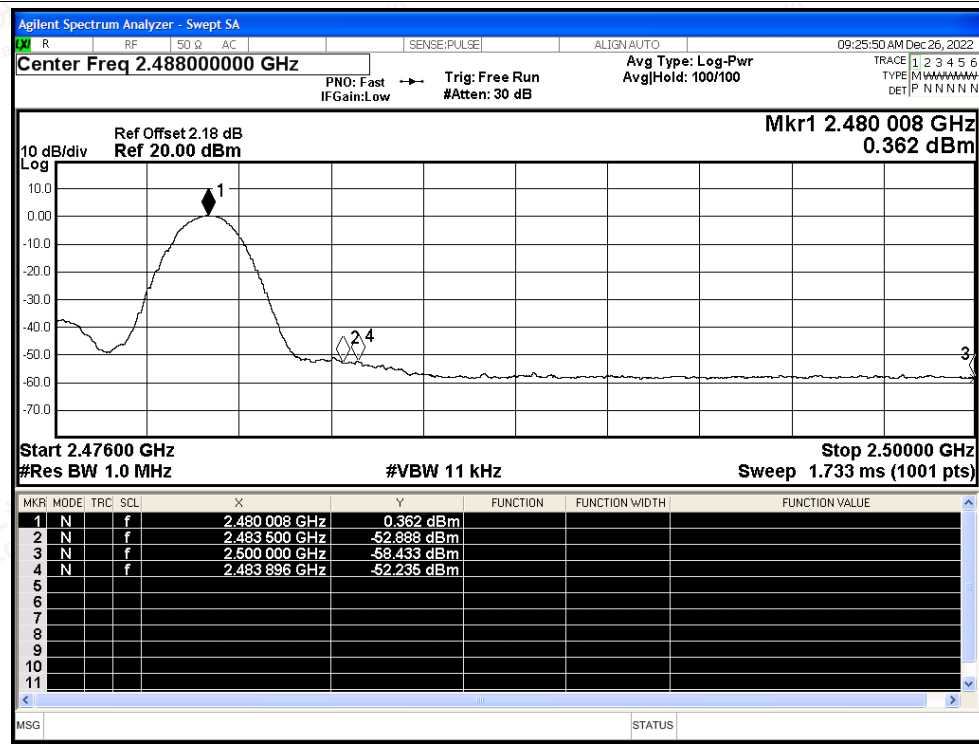
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Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2480MHz Ant1 Average



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