



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: Edge2 Maker Kit

Test Model: Edge2 Basic

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Wunder Wu
Supervised by:	Li Huan





B.1 -6dB Bandwidth

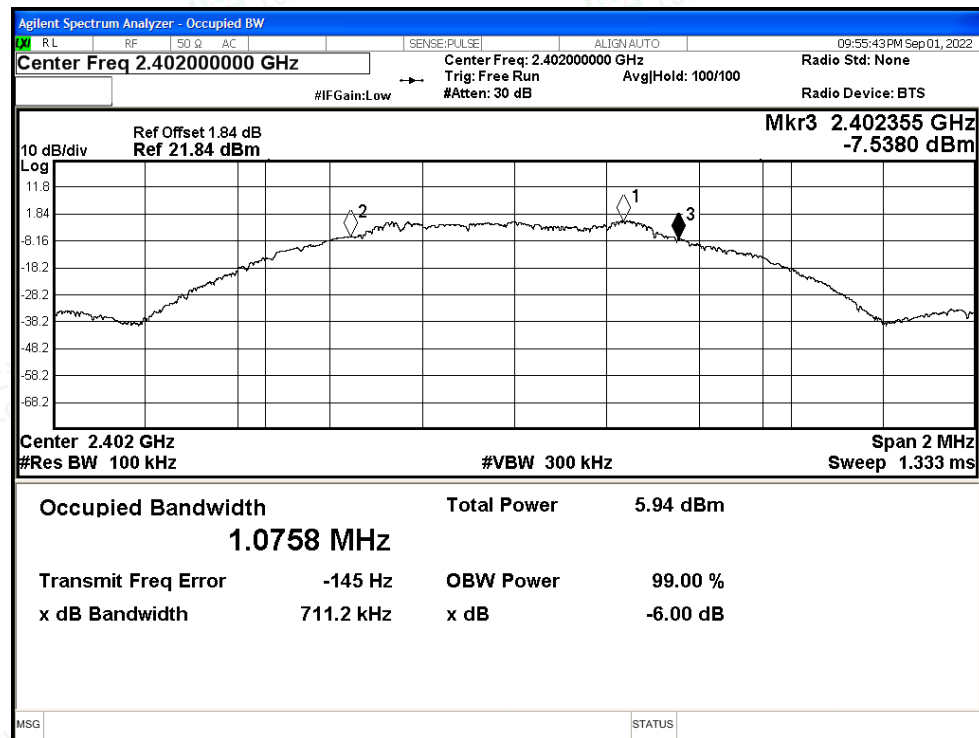
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant0	0.711	≥ 0.5	Pass
NVNT	BLE 1M	2440	Ant0	0.693	≥ 0.5	Pass
NVNT	BLE 1M	2480	Ant0	0.703	≥ 0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.194	≥ 0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.234	≥ 0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.119	≥ 0.5	Pass



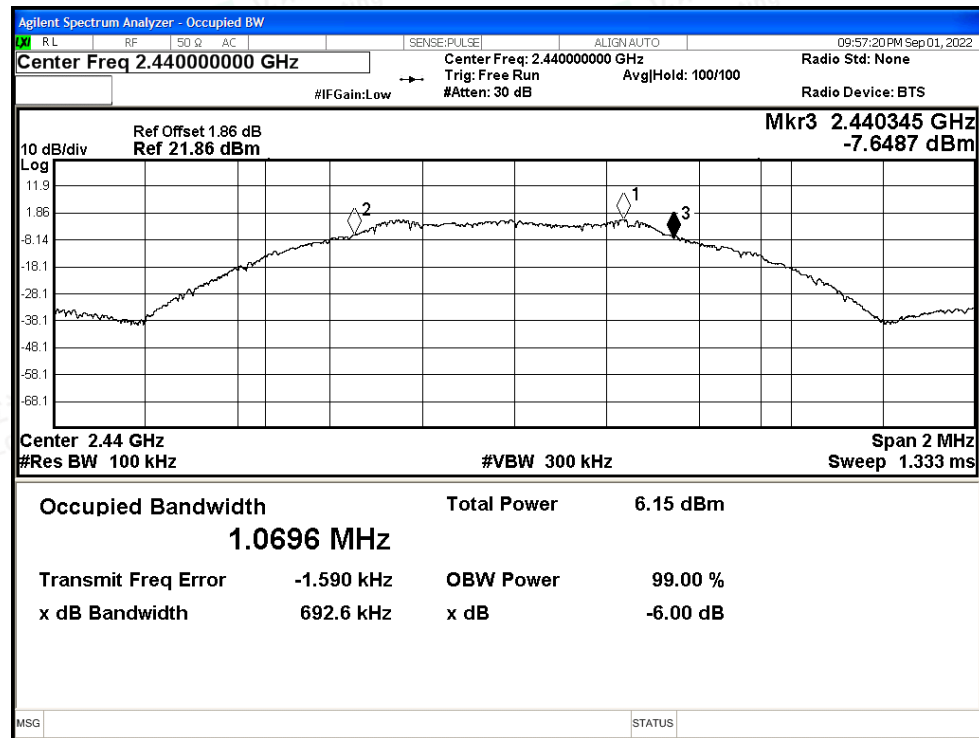


Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant0



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant0

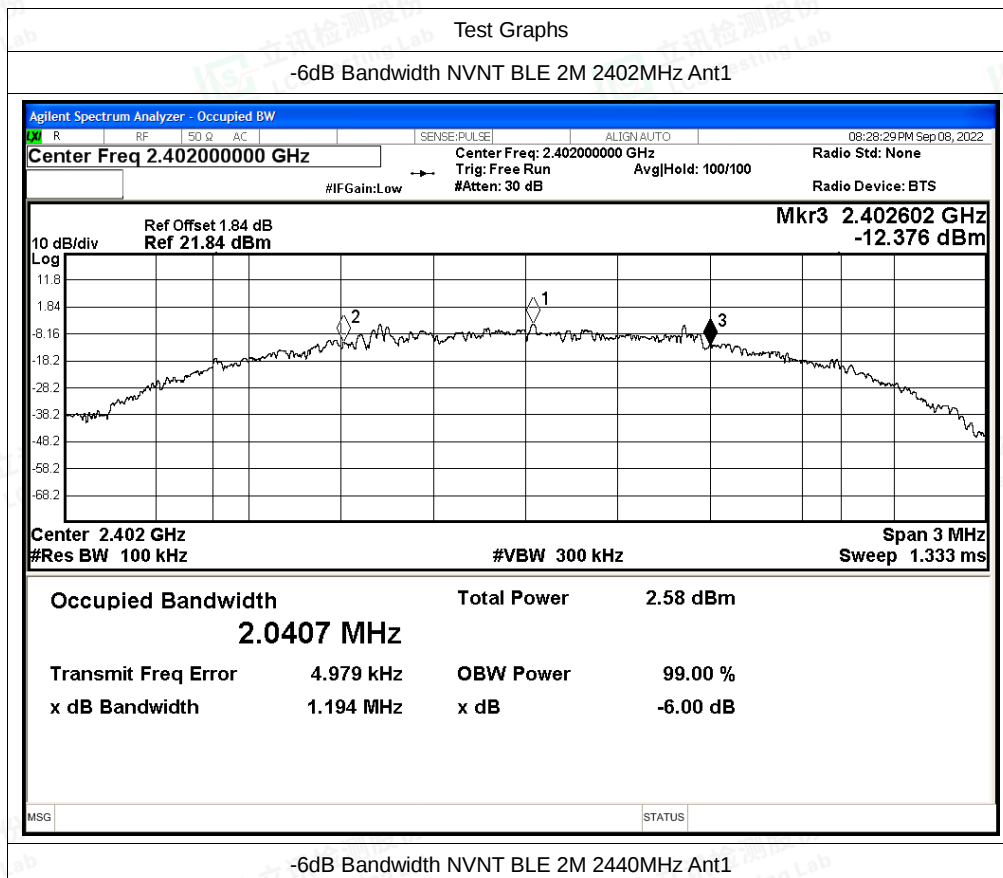
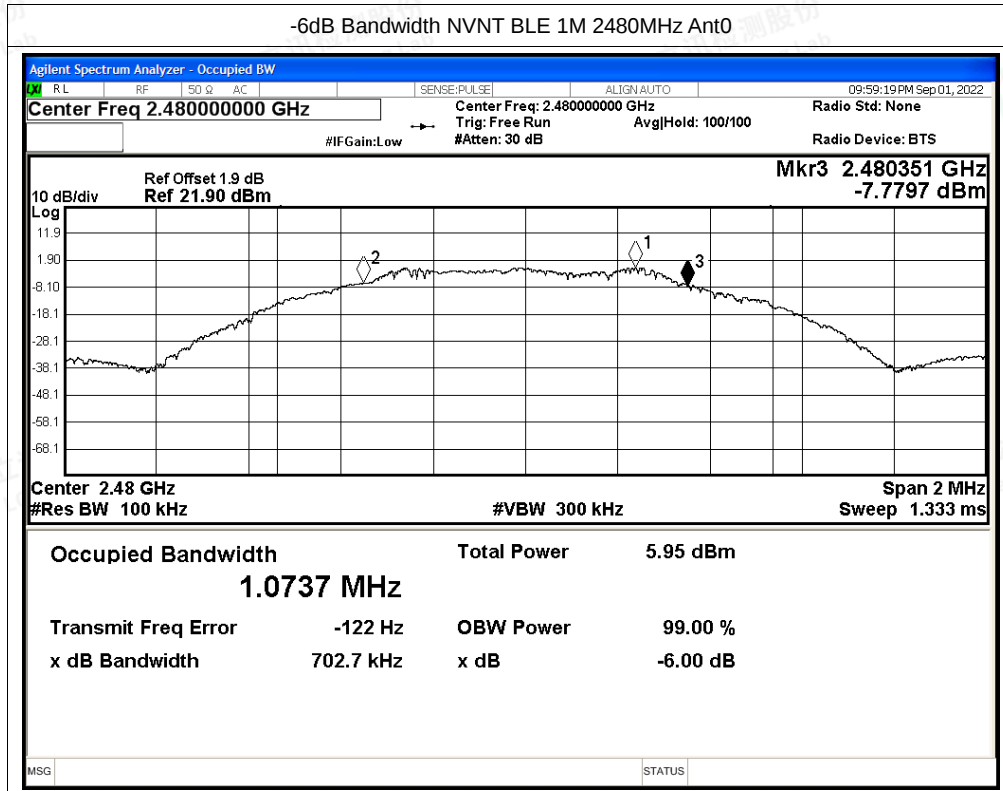


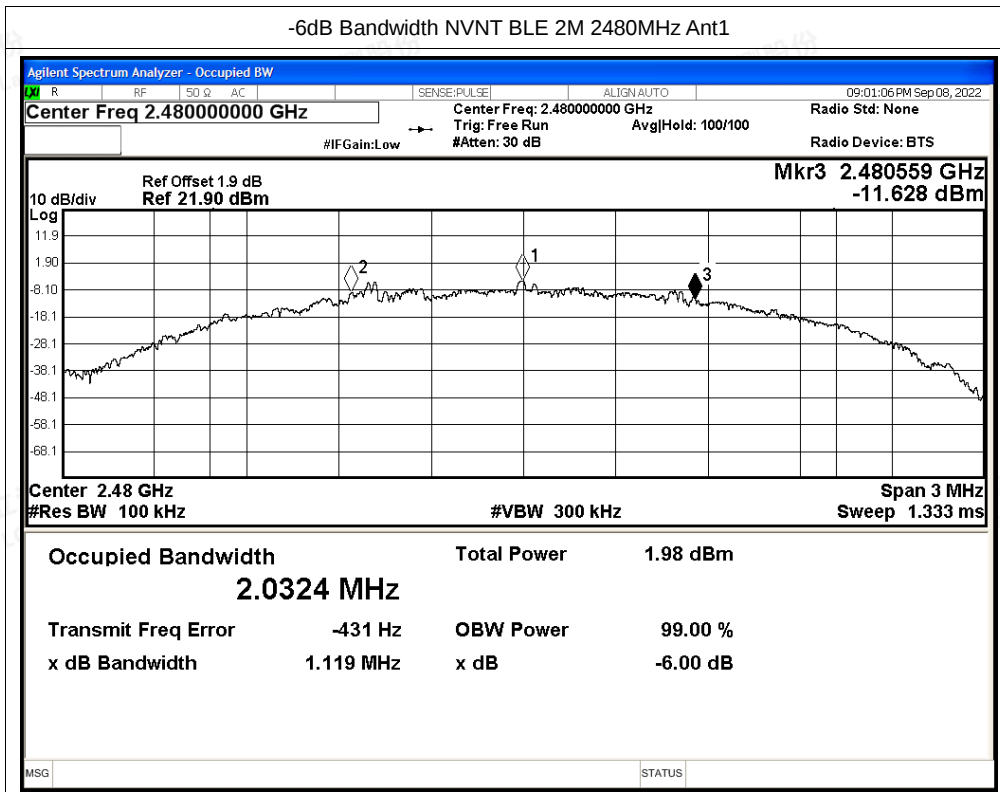
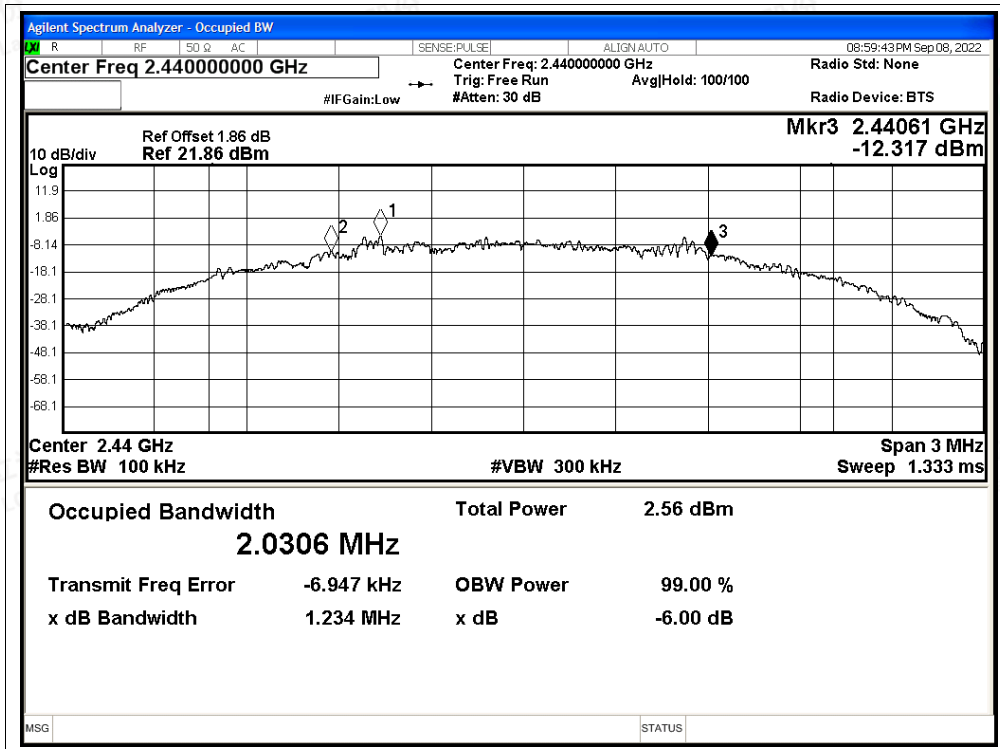
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B.2 Maximum Peak Conducted Output Power

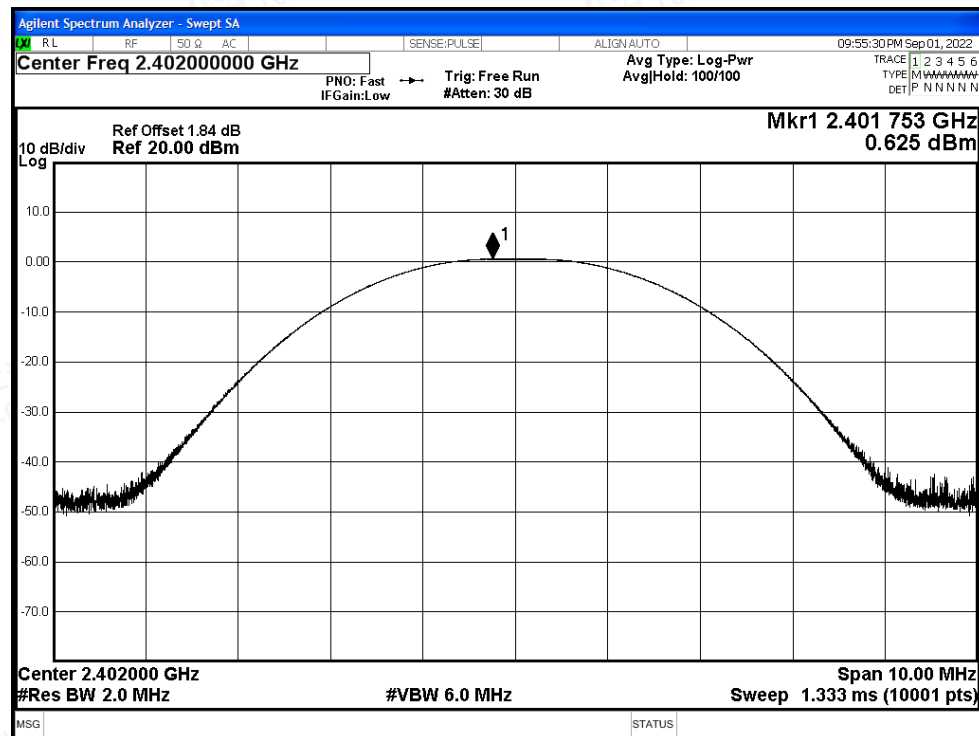
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant0	0.63	30	Pass
NVNT	BLE 1M	2440	Ant0	0.42	30	Pass
NVNT	BLE 1M	2480	Ant0	0.26	30	Pass
NVNT	BLE 2M	2402	Ant1	-3.12	30	Pass
NVNT	BLE 2M	2440	Ant1	-3.07	30	Pass
NVNT	BLE 2M	2480	Ant1	-3.8	30	Pass



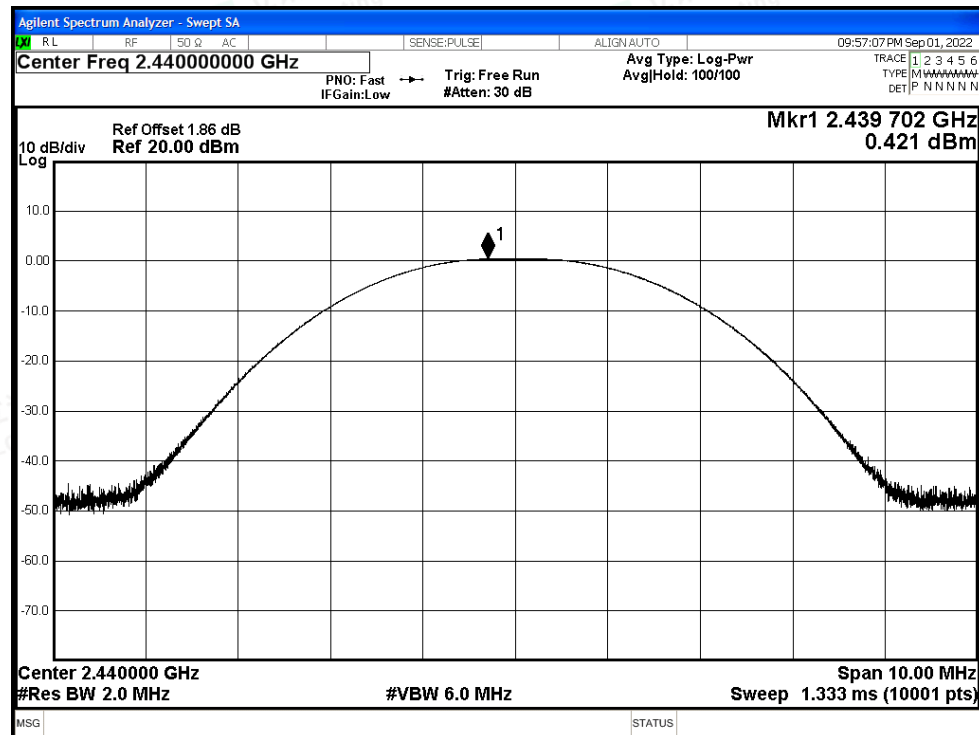


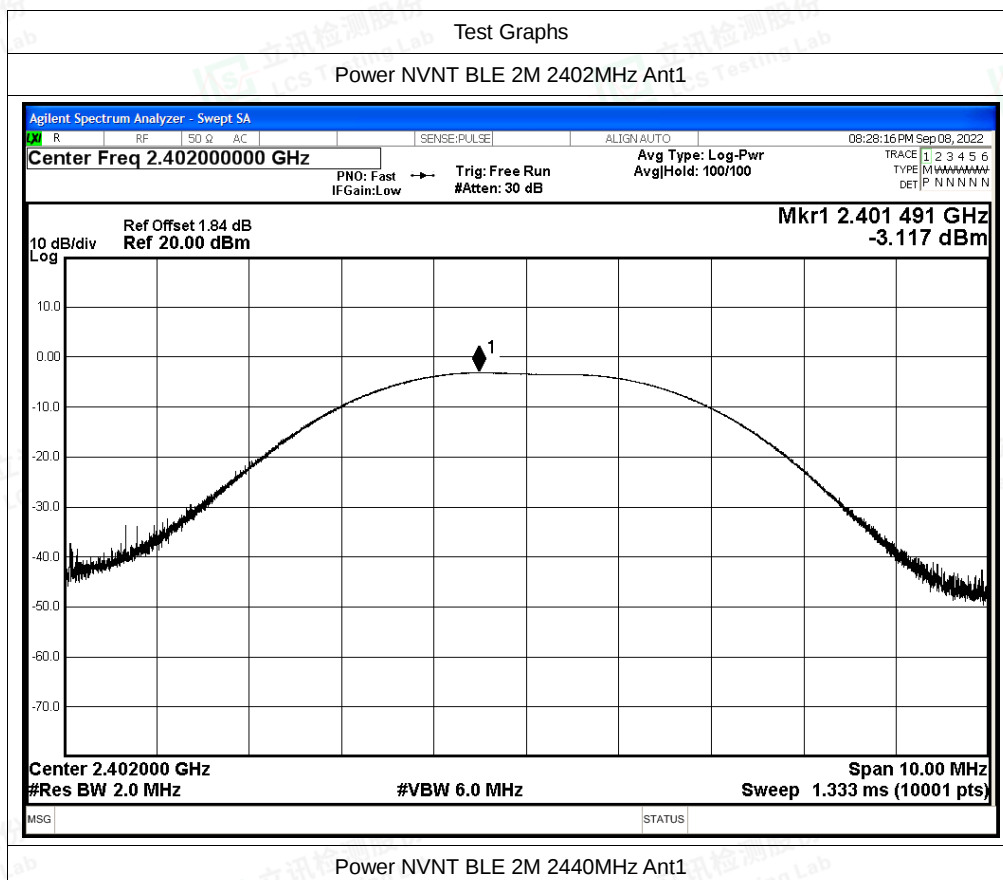
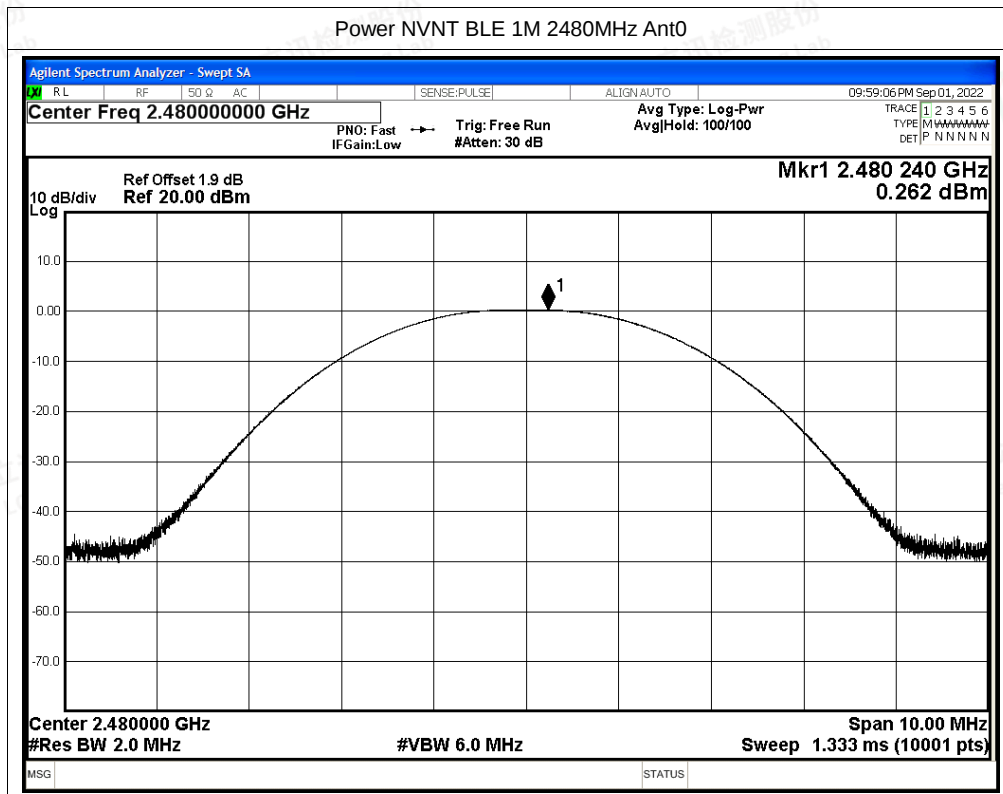
Test Graphs

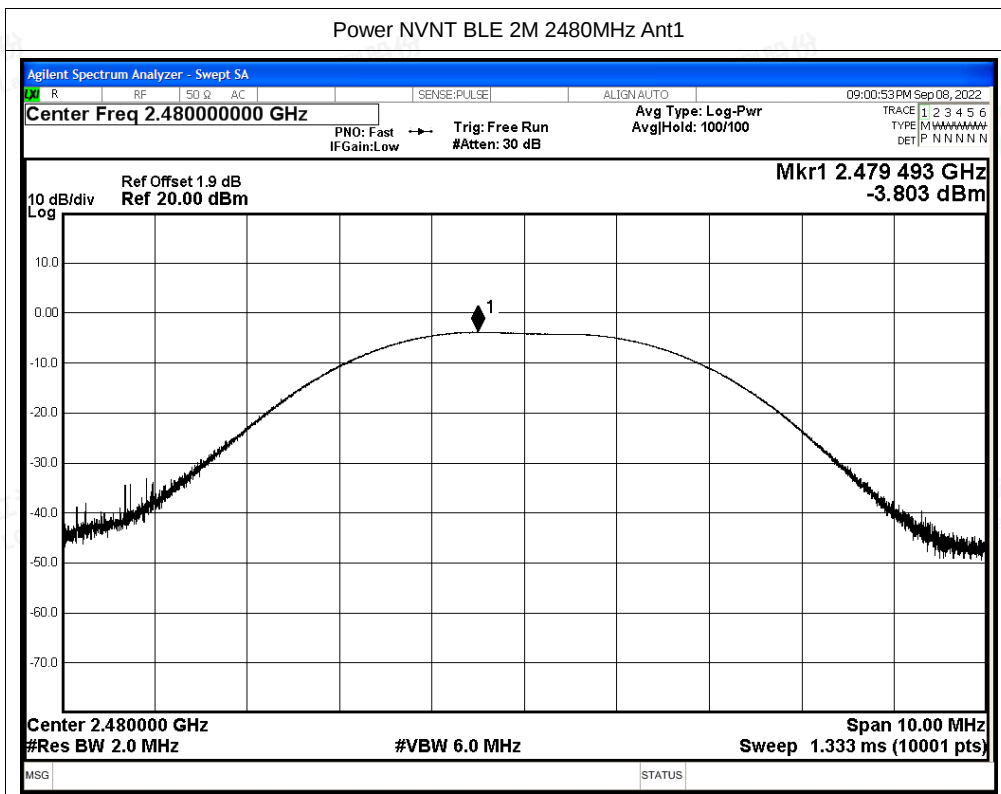
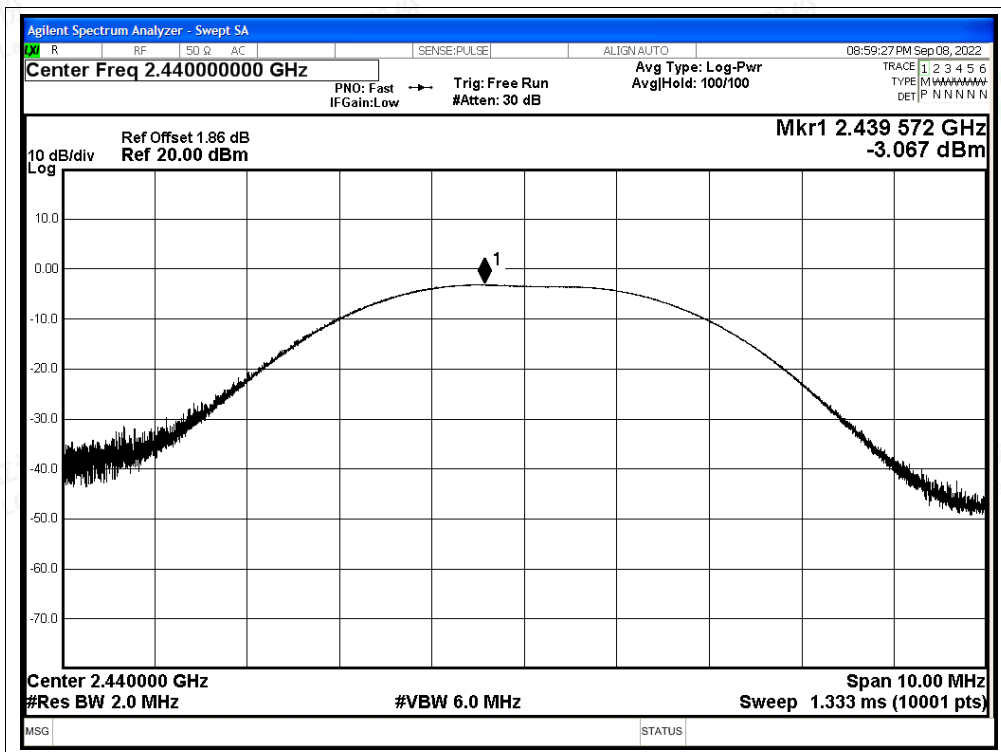
Power NVNT BLE 1M 2402MHz Ant0



Power NVNT BLE 1M 2440MHz Ant0









B.3 Maximum Power Spectral Density Level

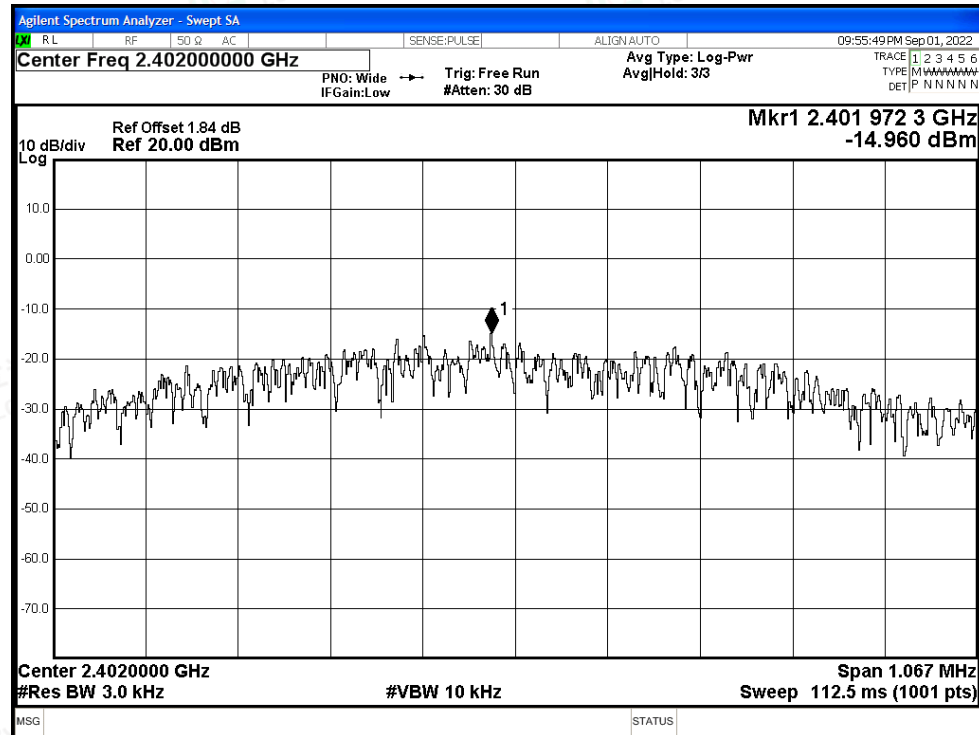
Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant0	-14.96	8	Pass
NVNT	BLE 1M	2440	Ant0	-15.94	8	Pass
NVNT	BLE 1M	2480	Ant0	-14.88	8	Pass
NVNT	BLE 2M	2402	Ant1	-25.85	8	Pass
NVNT	BLE 2M	2440	Ant1	-25.87	8	Pass
NVNT	BLE 2M	2480	Ant1	-24.39	8	Pass



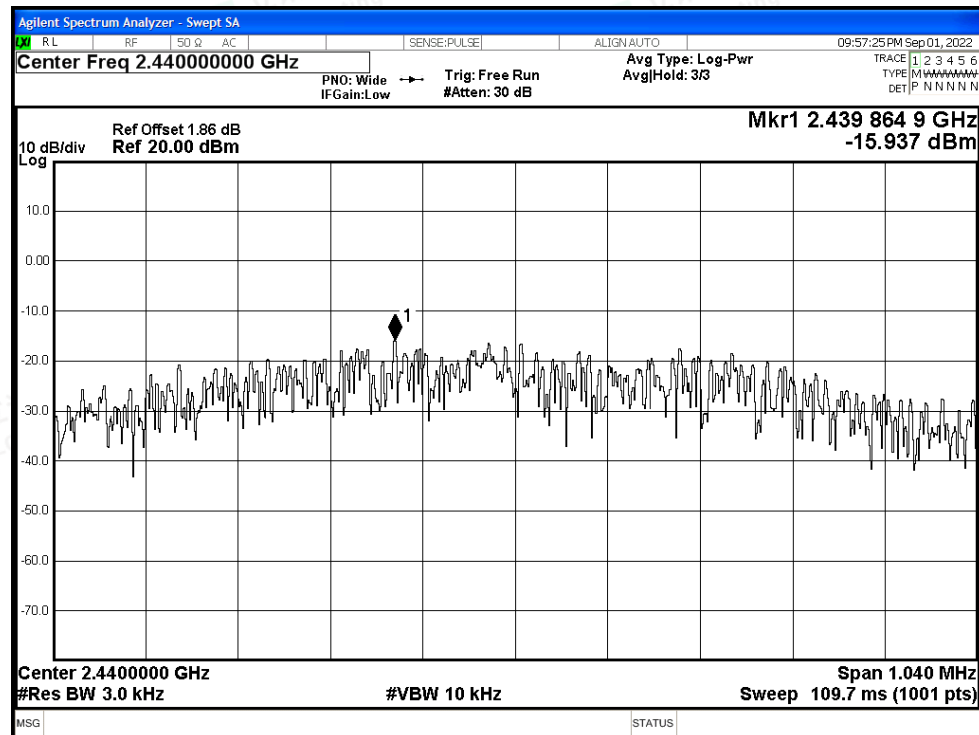


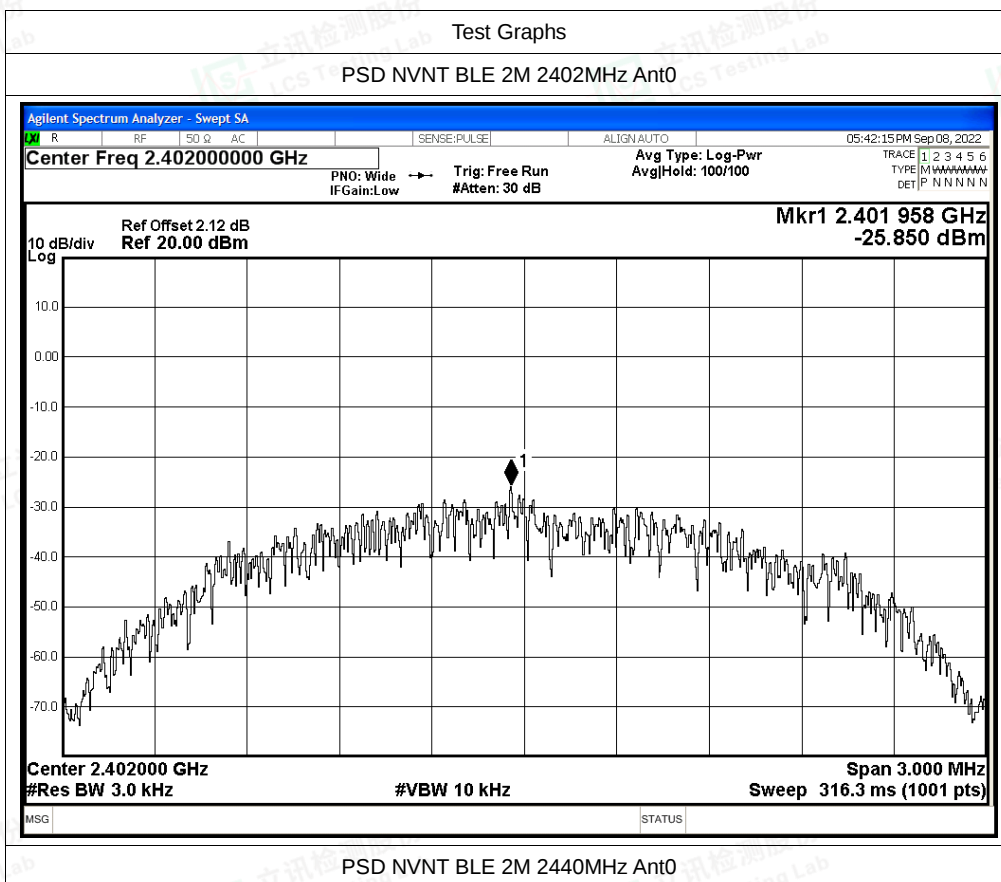
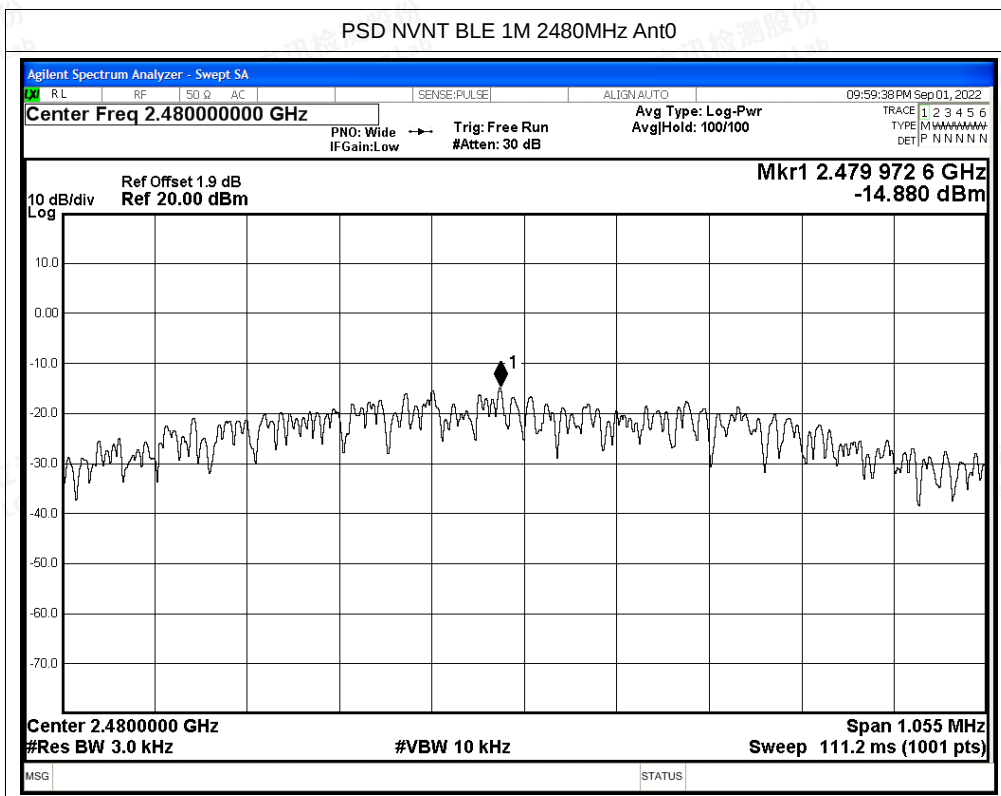
Test Graphs

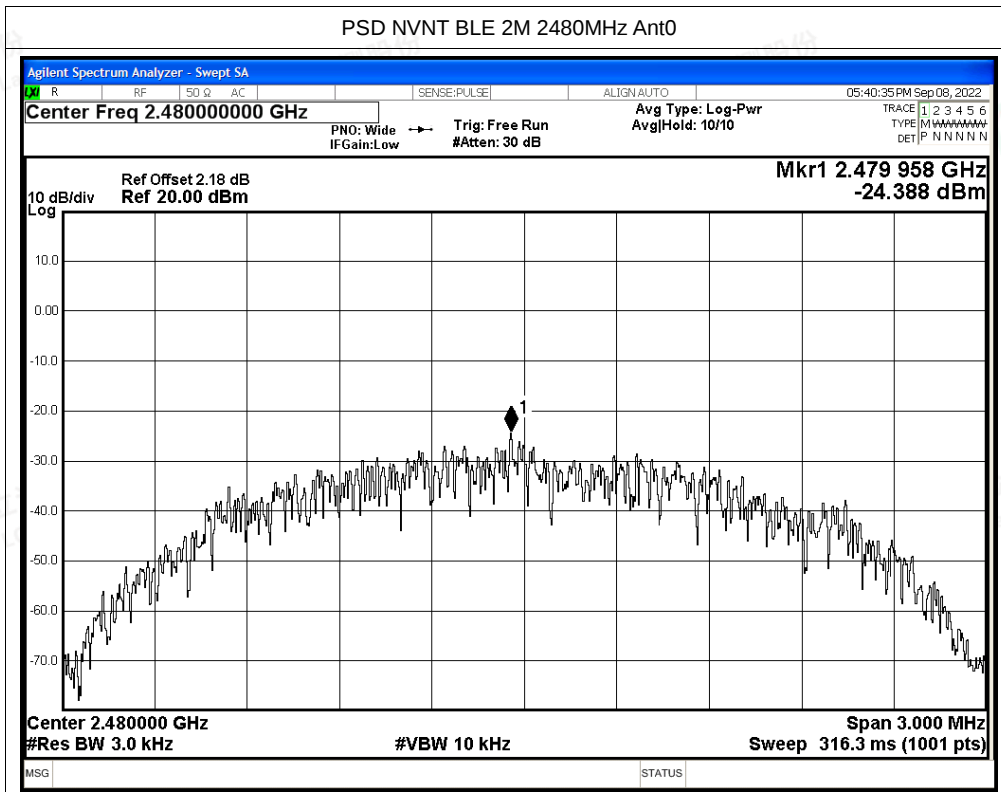
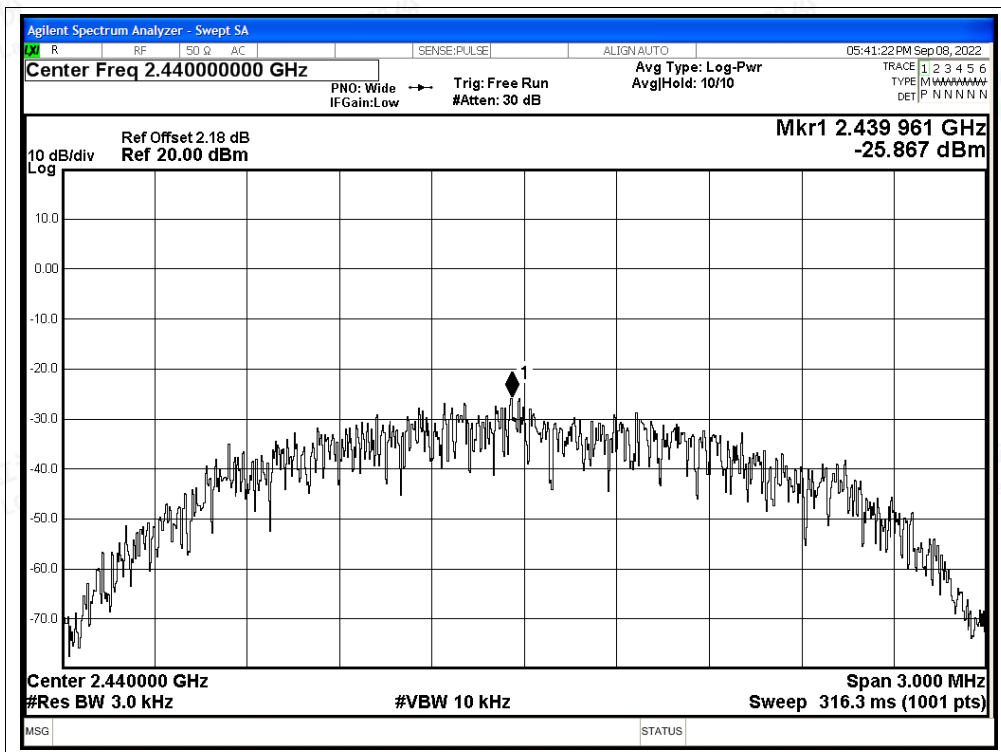
PSD NVNT BLE 1M 2402MHz Ant0



PSD NVNT BLE 1M 2440MHz Ant0









B.4 Band Edge

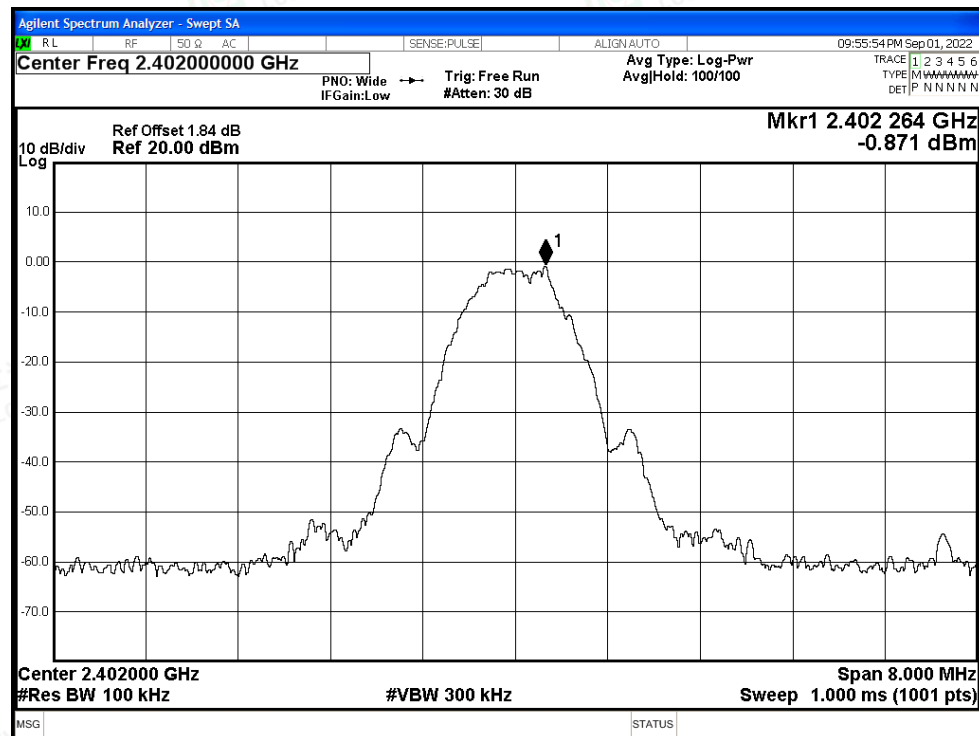
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant0	-56.58	-20	Pass
NVNT	BLE 1M	2480	Ant0	-55.53	-20	Pass
NVNT	BLE 2M	2402	Ant1	-31.96	-20	Pass
NVNT	BLE 2M	2480	Ant1	-51.84	-20	Pass



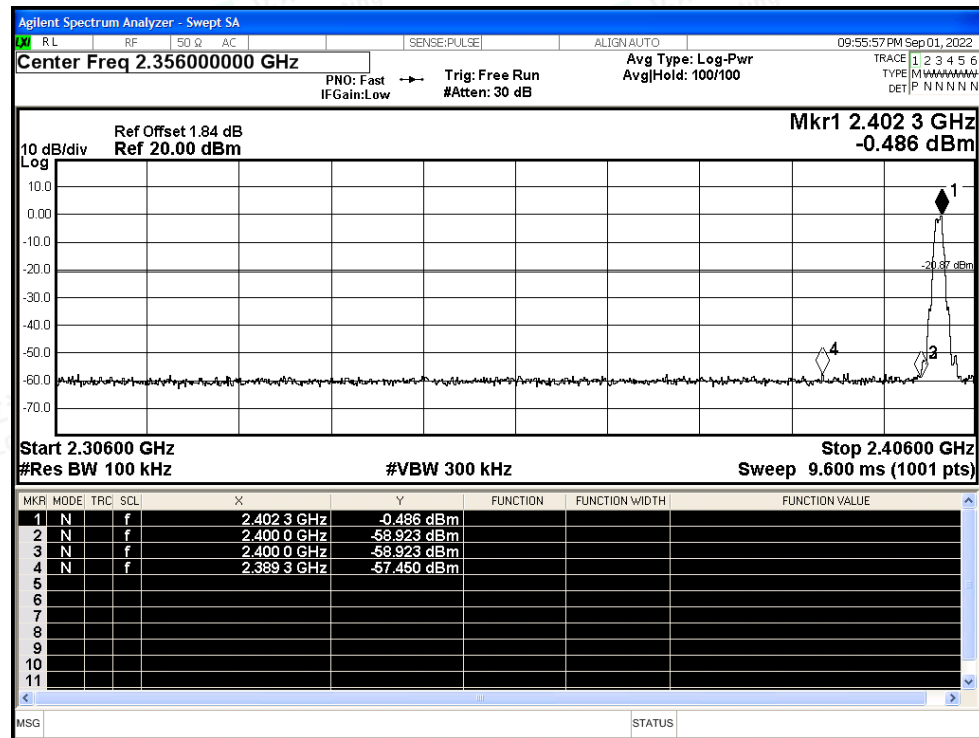


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant0 Ref



Band Edge NVNT BLE 1M 2402MHz Ant0 Emission

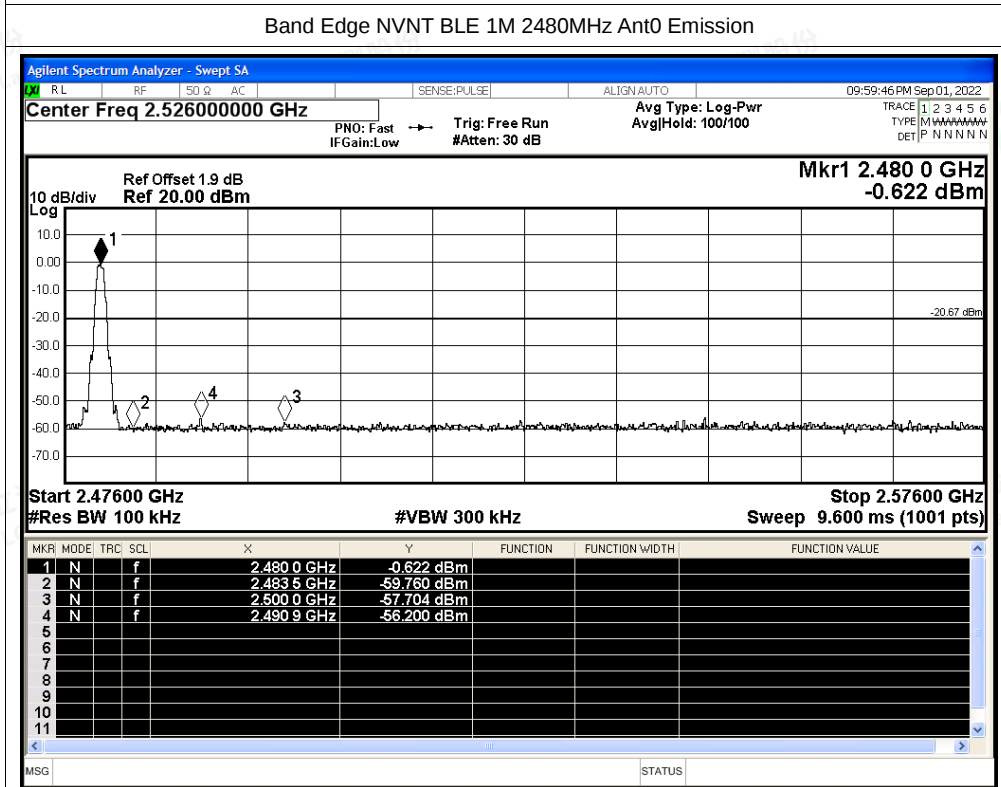
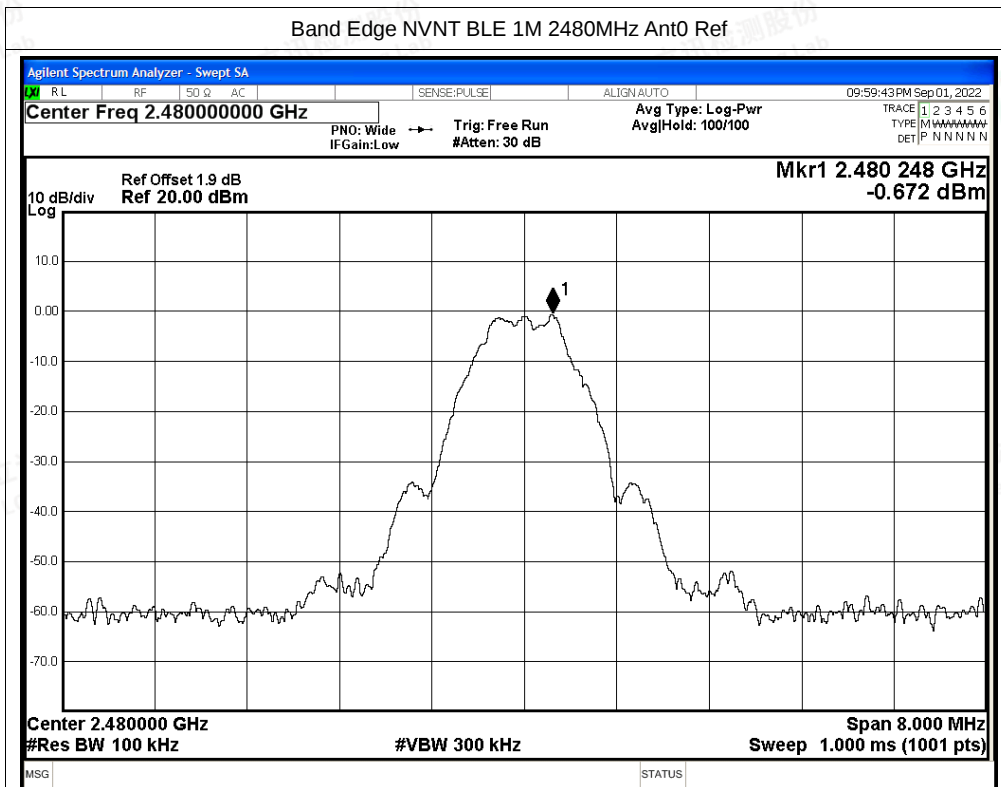


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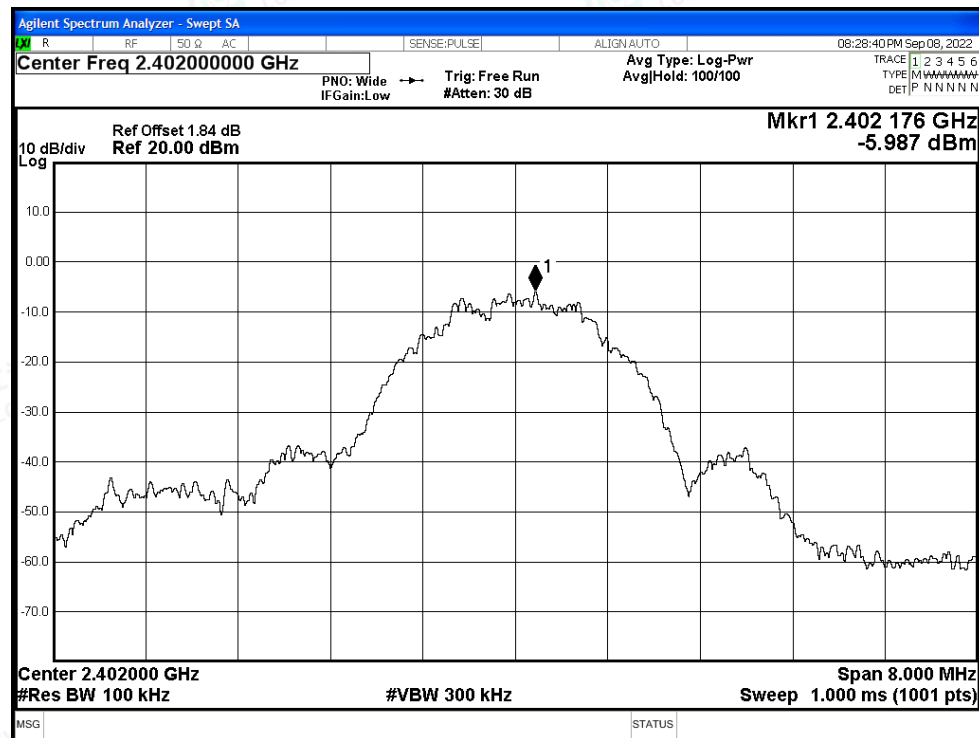
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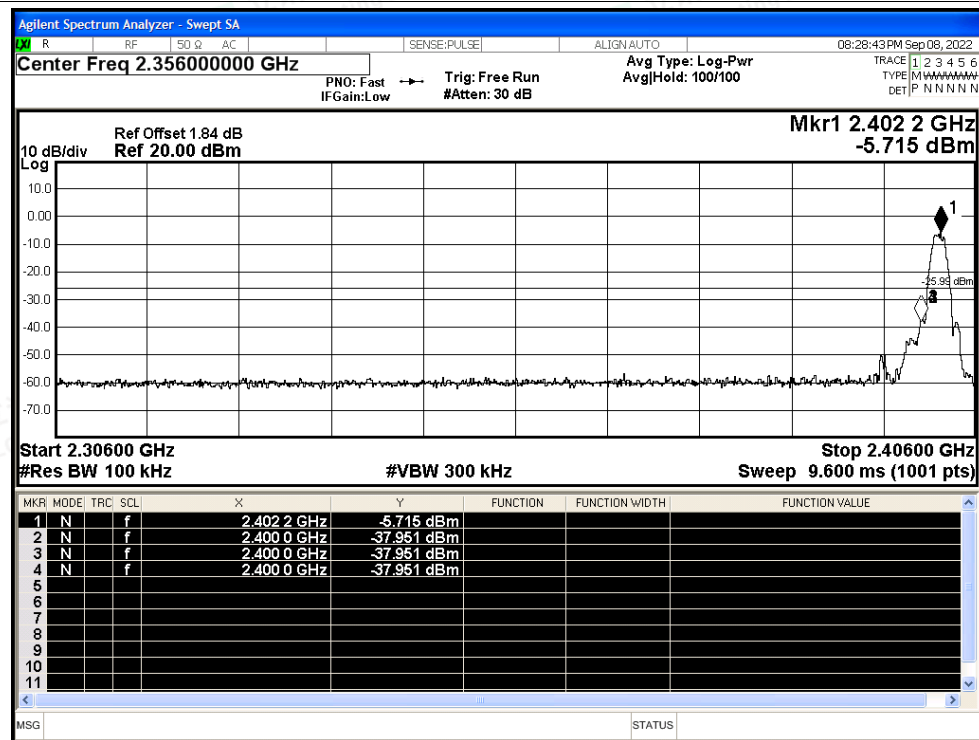


Test Graphs

Band Edge NVNT BLE 2M 2402MHz Ant1 Ref

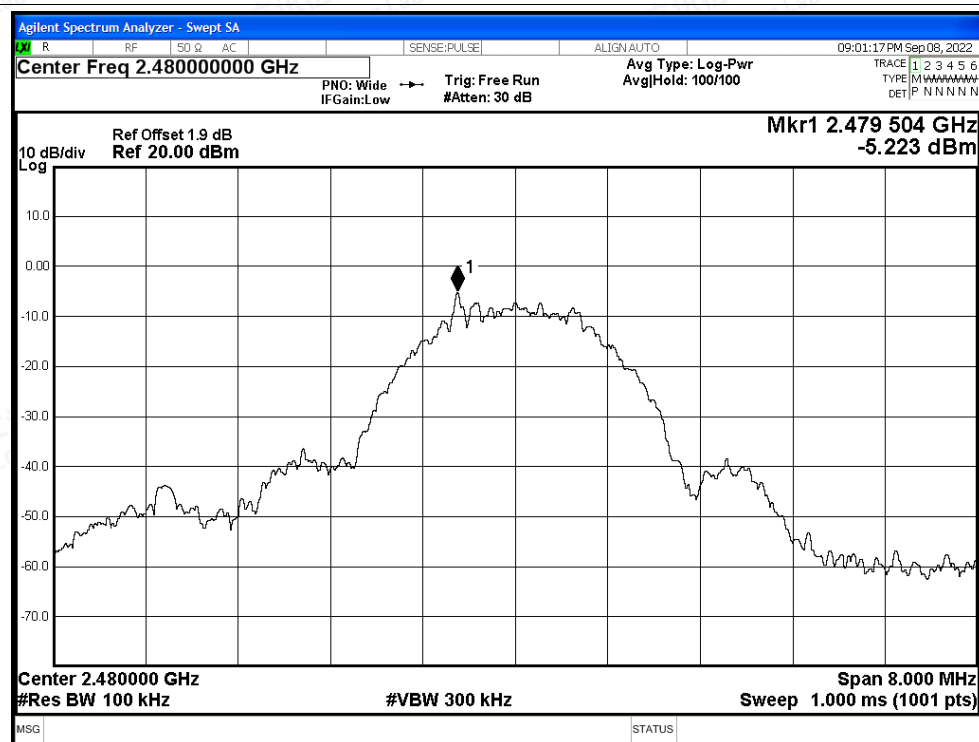


Band Edge NVNT BLE 2M 2402MHz Ant1 Emission

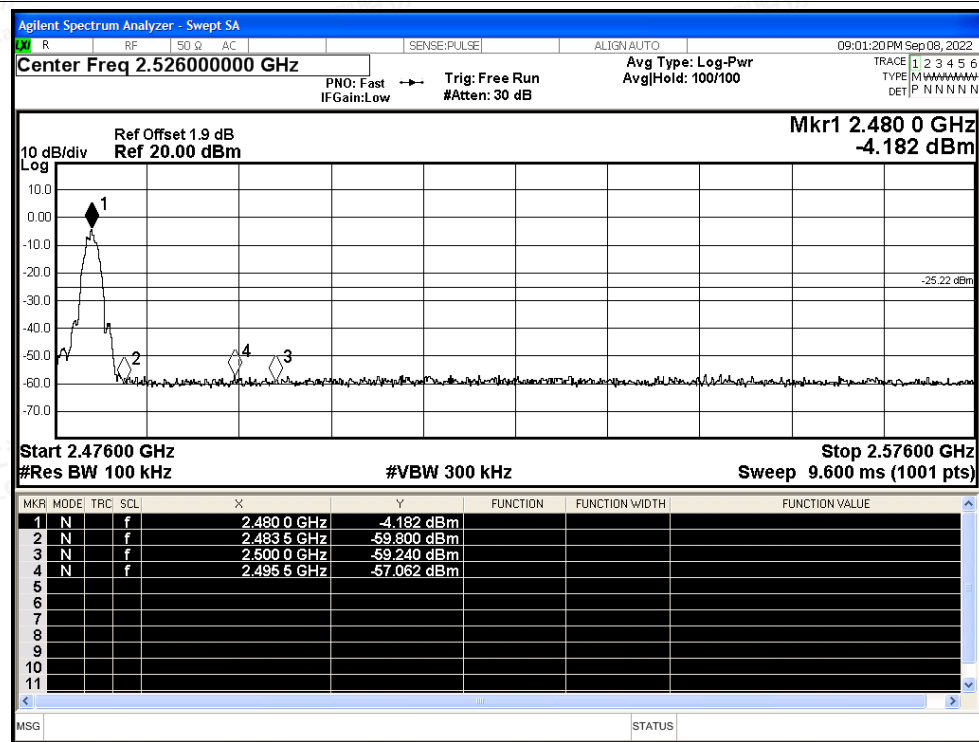




Band Edge NVNT BLE 2M 2480MHz Ant1 Ref



Band Edge NVNT BLE 2M 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	Ant0	-55.15	-20	Pass
NVNT	BLE 1M	2440	Ant0	-54.54	-20	Pass
NVNT	BLE 1M	2480	Ant0	-54.86	-20	Pass
NVNT	BLE 2M	2402	Ant1	-46.58	-20	Pass
NVNT	BLE 2M	2440	Ant1	-44.16	-20	Pass
NVNT	BLE 2M	2480	Ant1	-38.46	-20	Pass

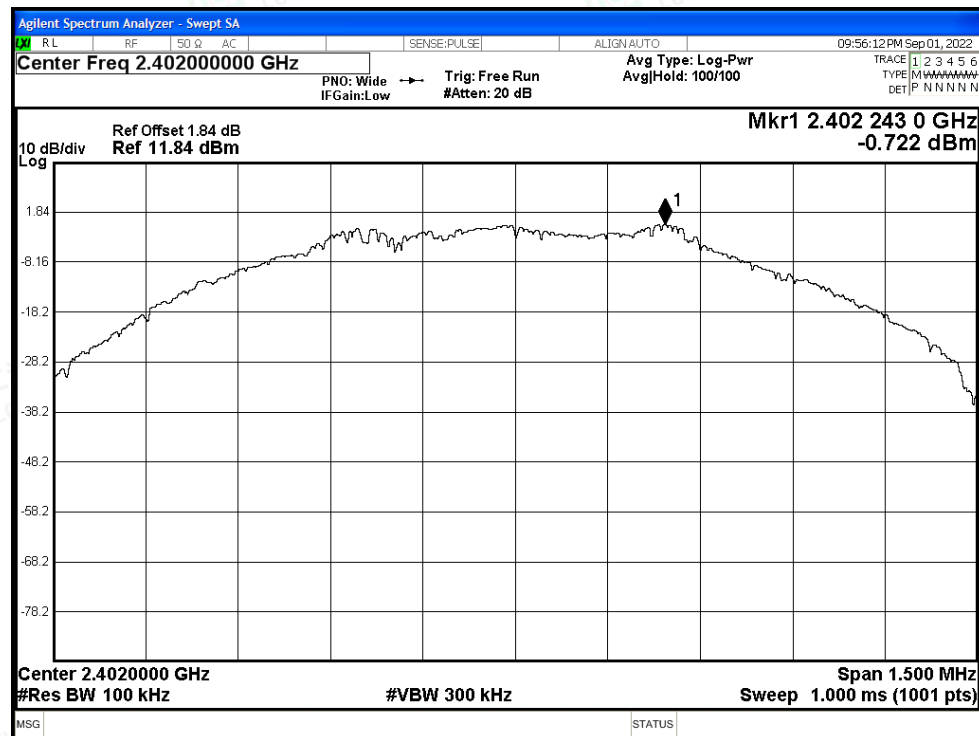


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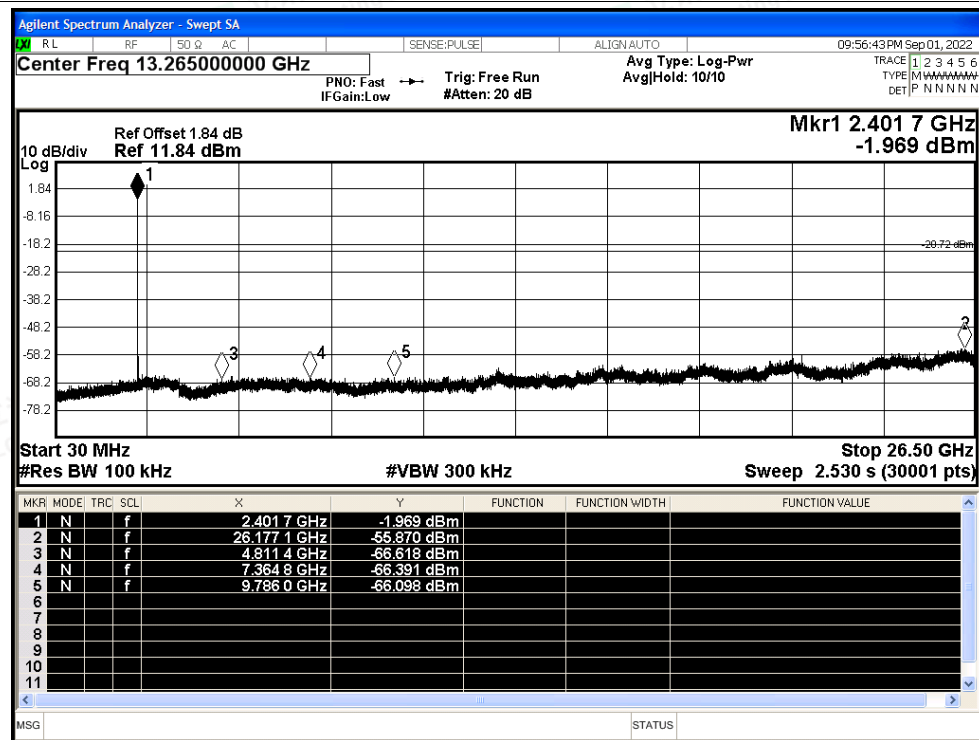


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant0 Ref

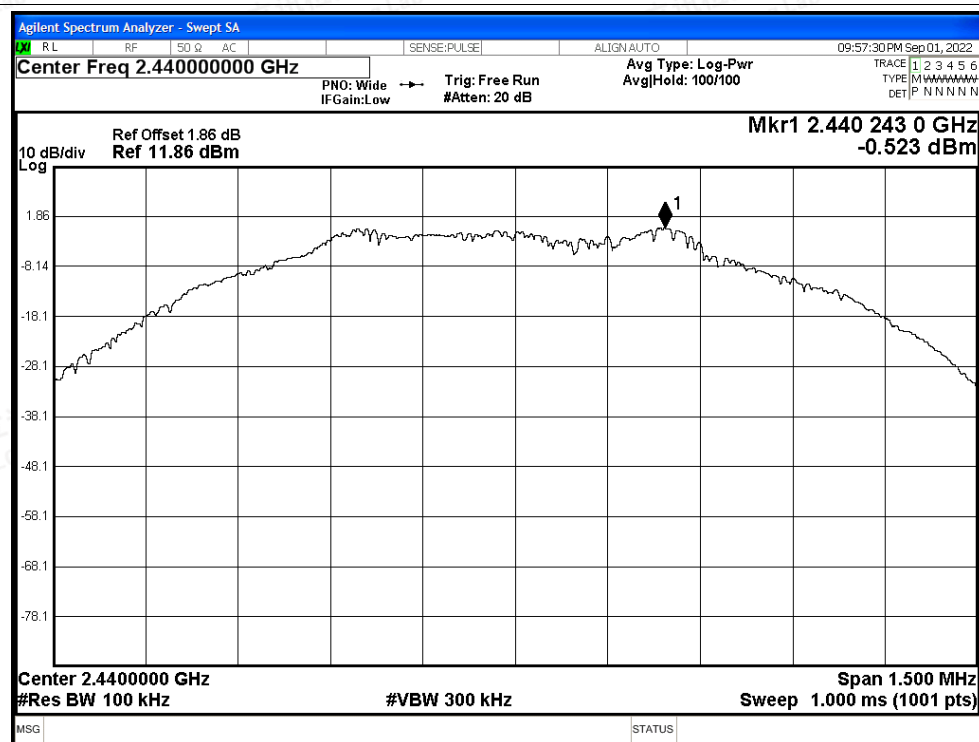


Tx. Spurious NVNT BLE 1M 2402MHz Ant0 Emission

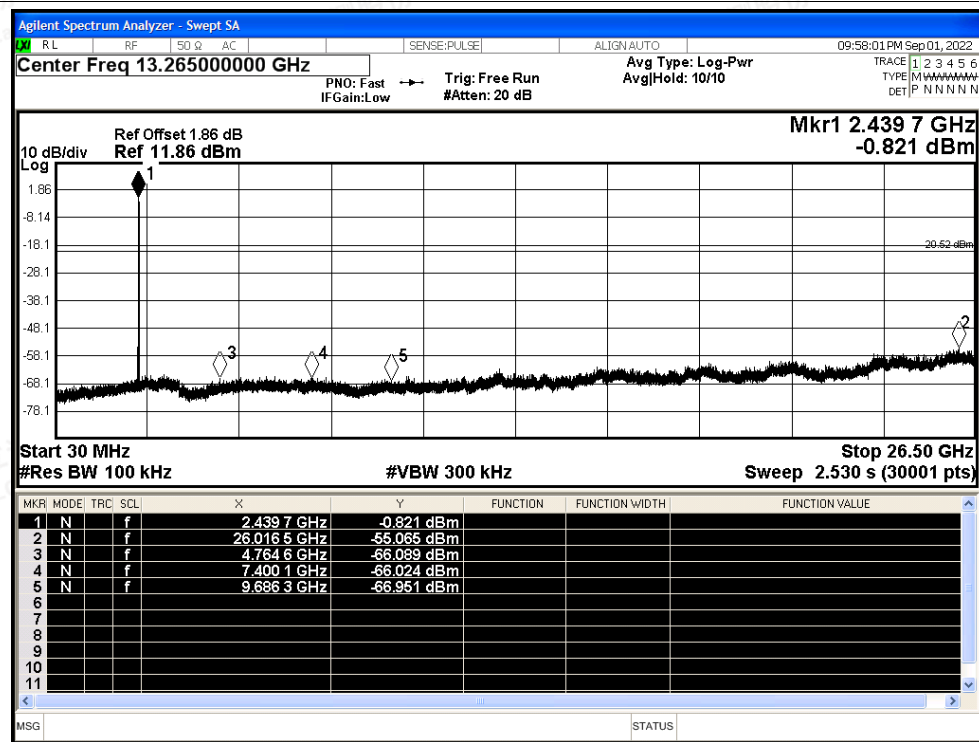




Tx. Spurious NVNT BLE 1M 2440MHz Ant0 Ref

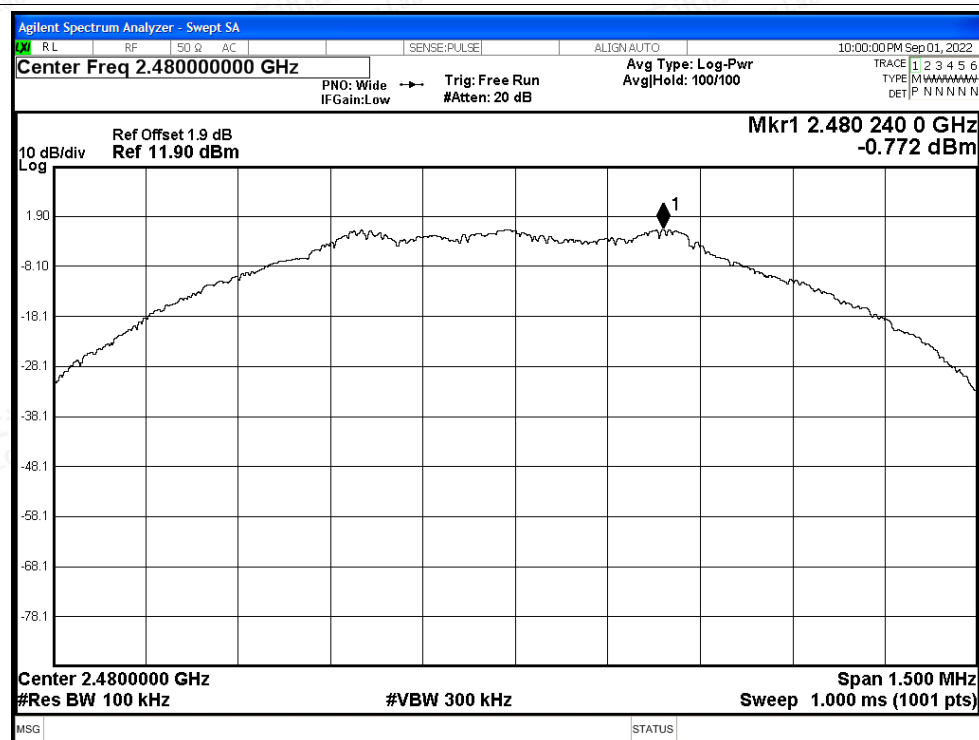


Tx. Spurious NVNT BLE 1M 2440MHz Ant0 Emission

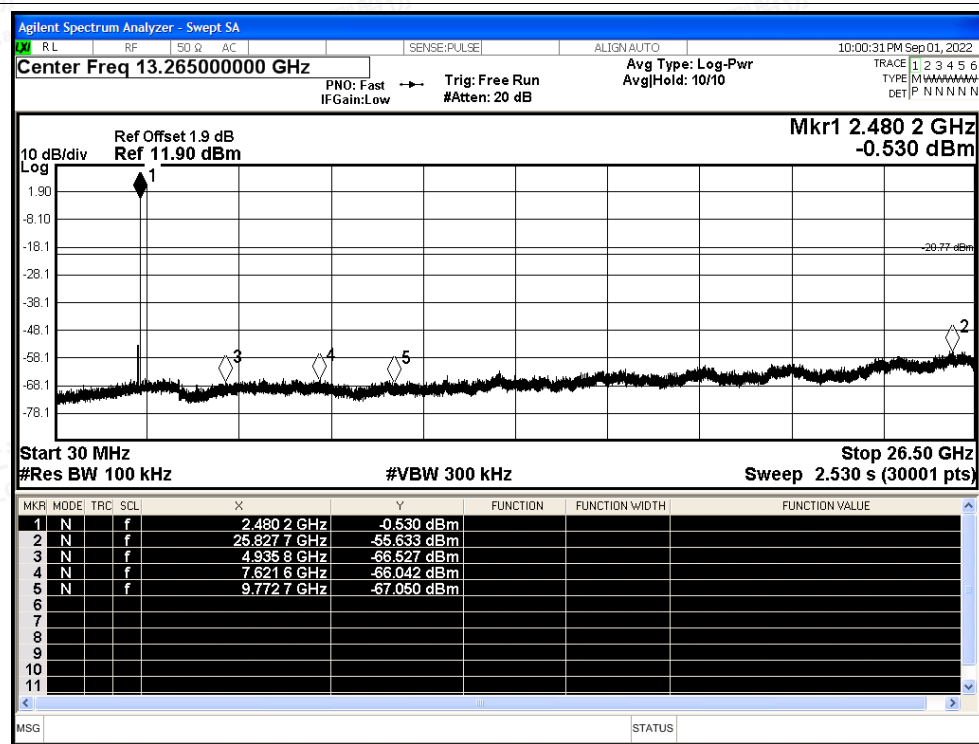




Tx. Spurious NVNT BLE 1M 2480MHz Ant0 Ref



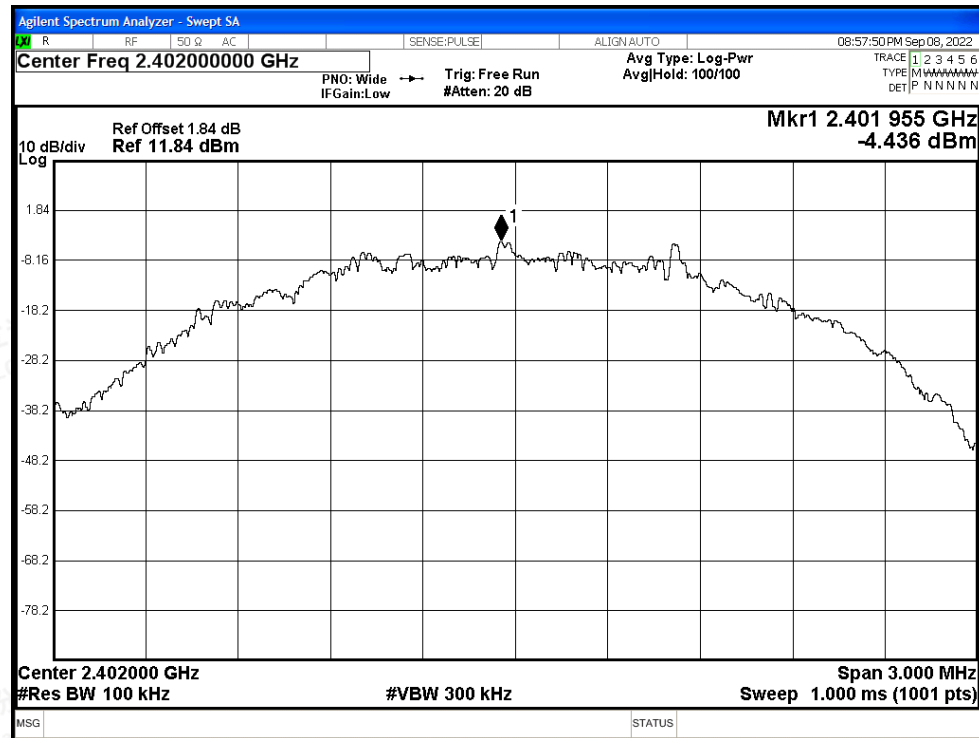
Tx. Spurious NVNT BLE 1M 2480MHz Ant0 Emission



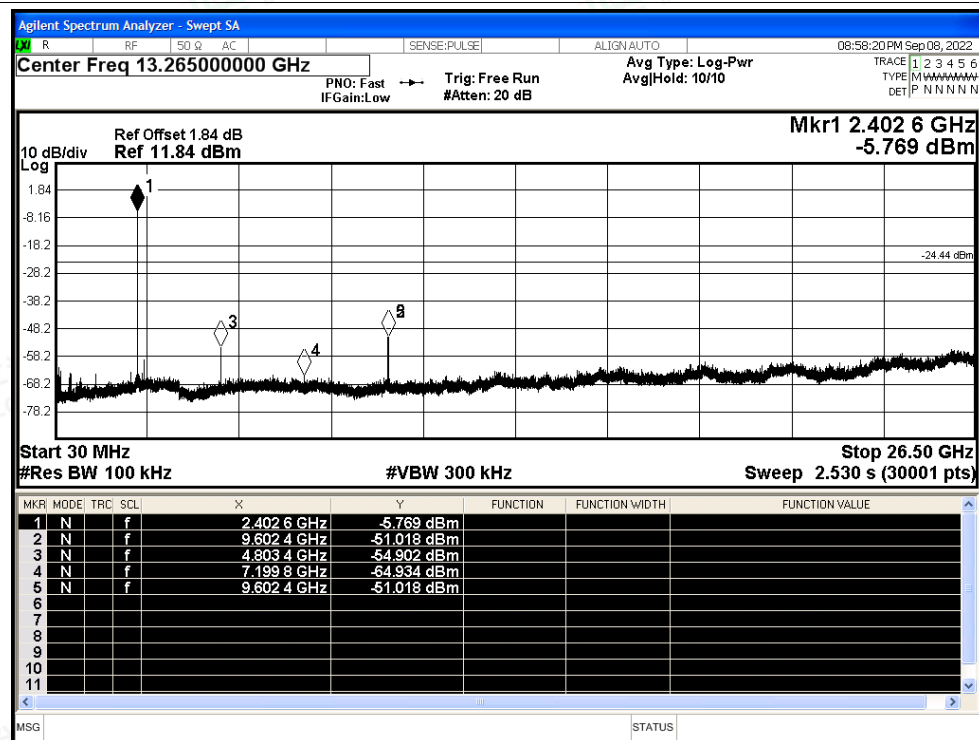


Test Graphs

Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

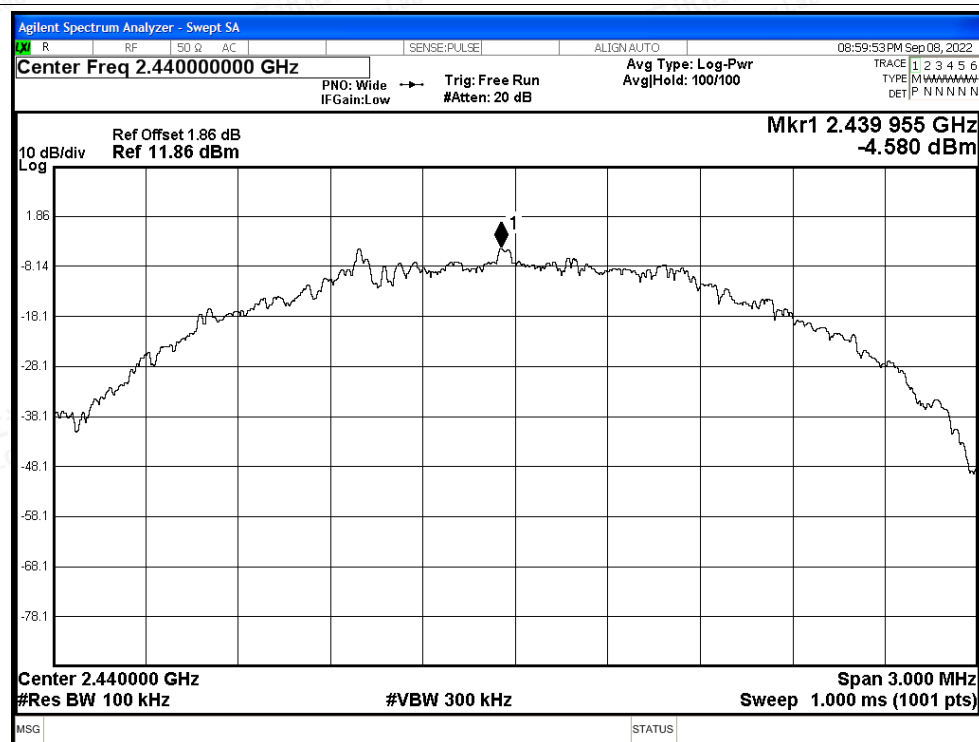
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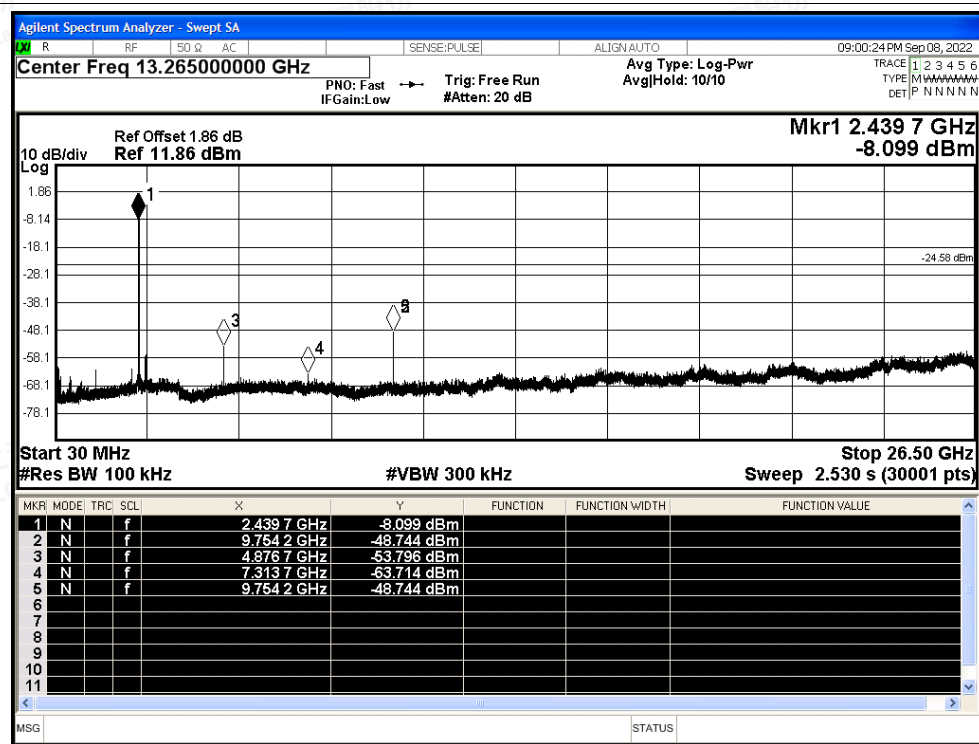
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Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Ref

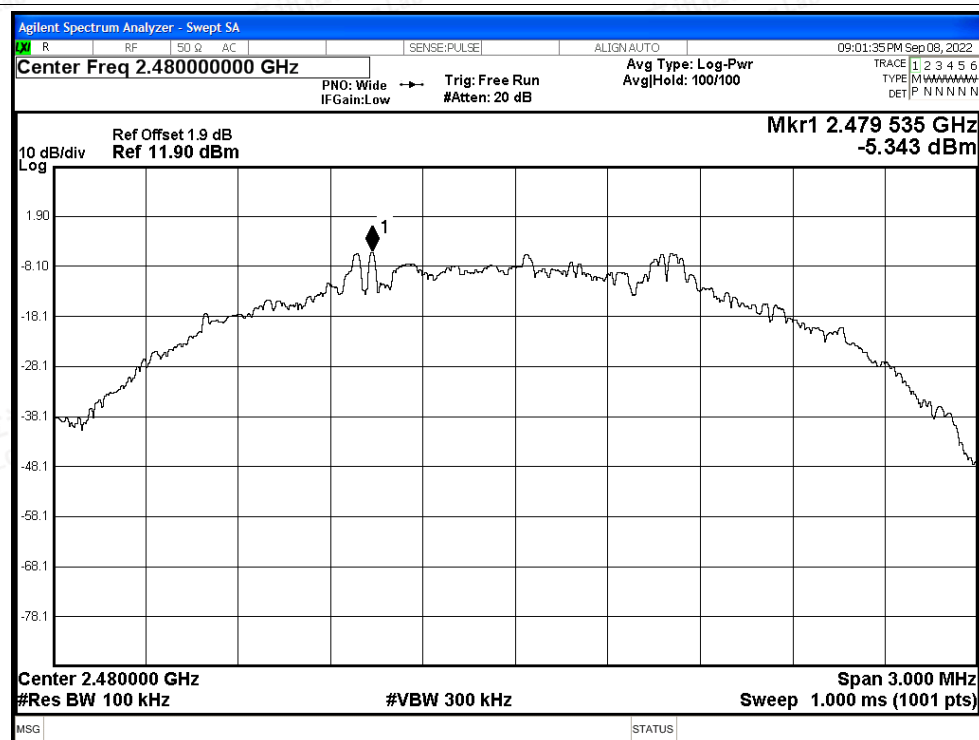


Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Emission

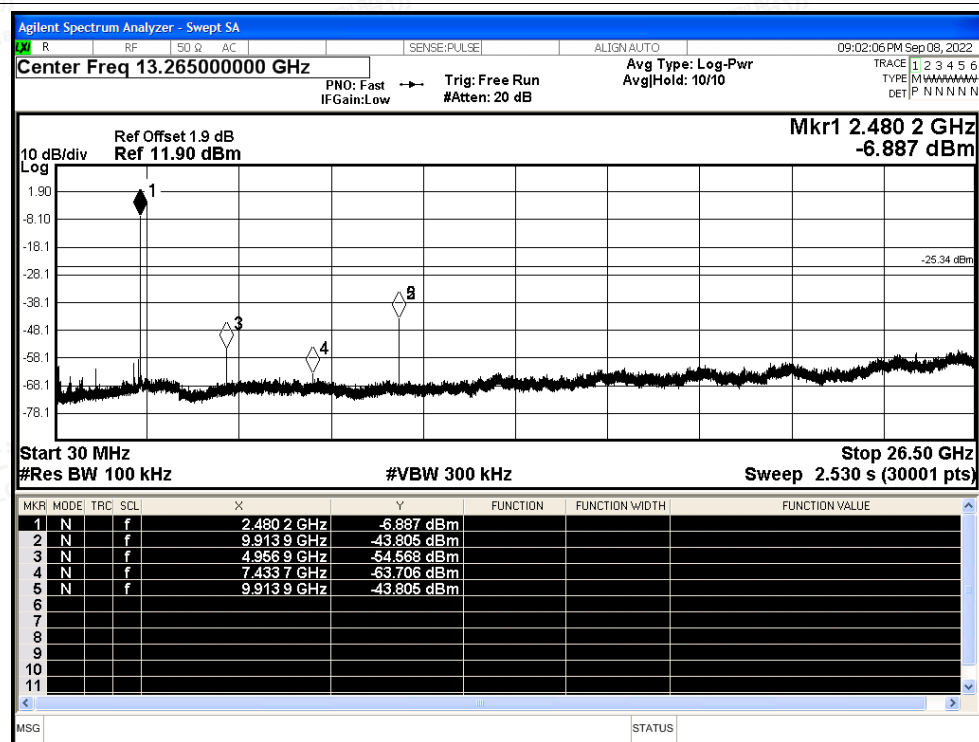




Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Emission





B.6 Duty Cycle

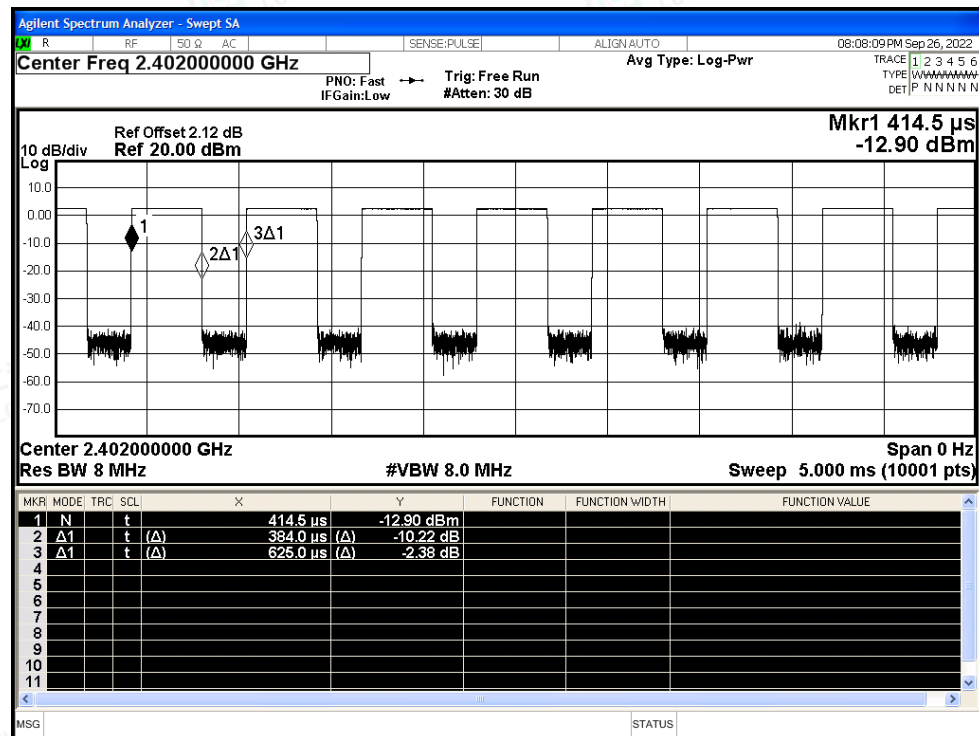
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant0	61.44	2.12	2.6
NVNT	BLE 1M	2440	Ant0	61.39	2.12	2.6
NVNT	BLE 1M	2480	Ant0	61.39	2.12	2.6
NVNT	BLE 2M	2402	Ant1	31.89	4.96	5.01
NVNT	BLE 2M	2440	Ant1	31.92	4.96	5.01
NVNT	BLE 2M	2480	Ant1	31.92	4.96	5.01



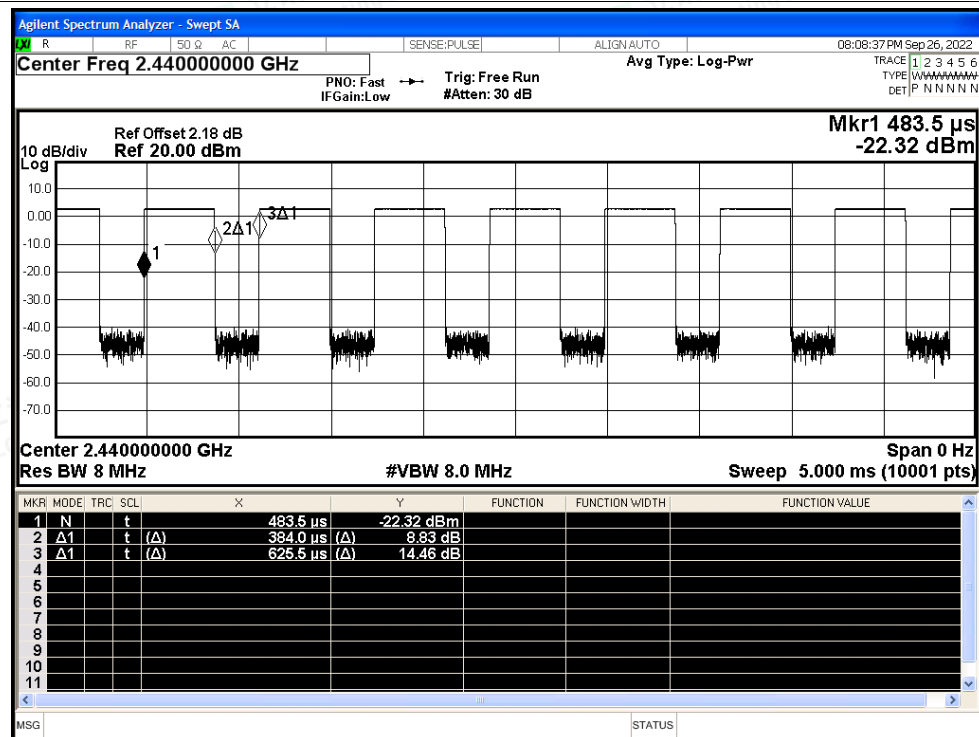


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant0



Duty Cycle NVNT BLE 1M 2440MHz Ant0



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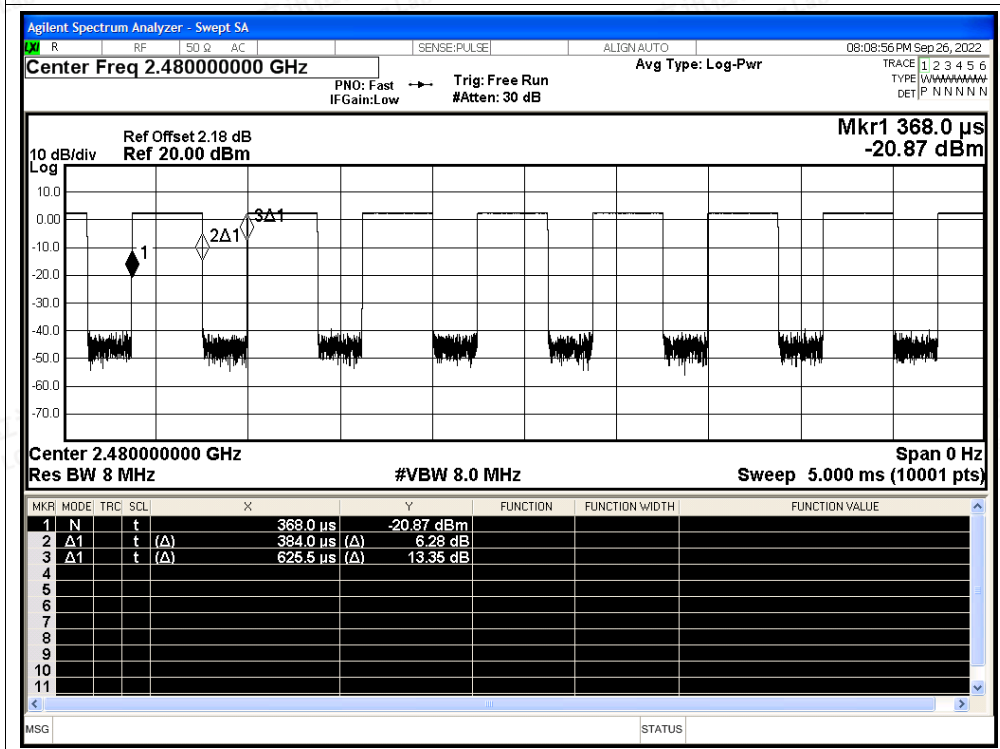
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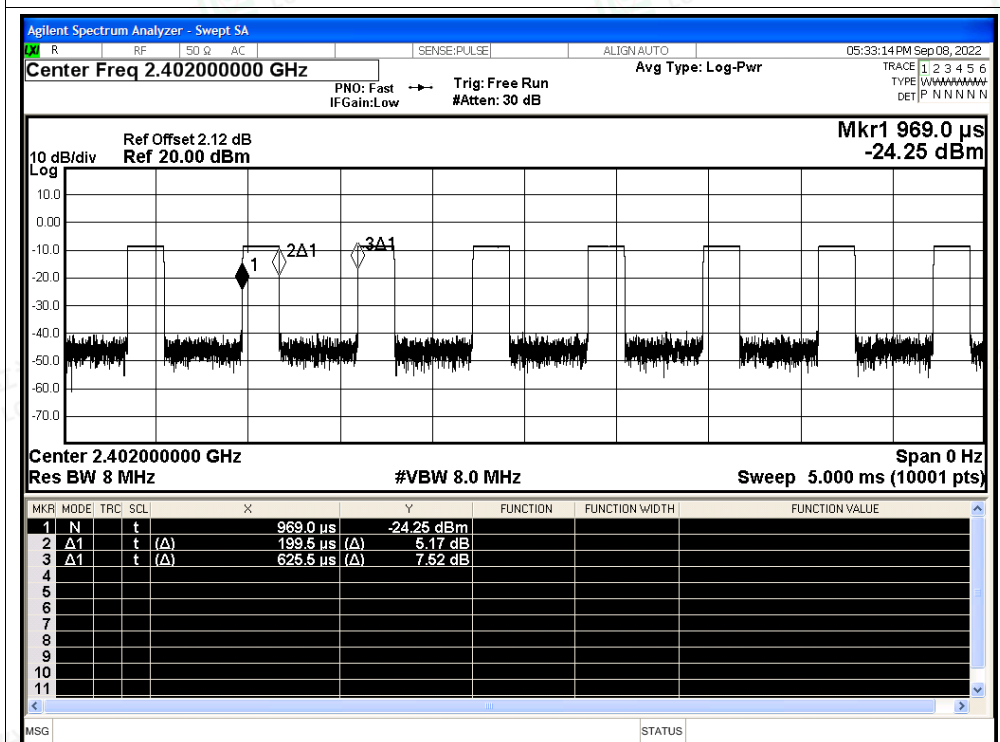


Duty Cycle NVNT BLE 1M 2480MHz Ant0



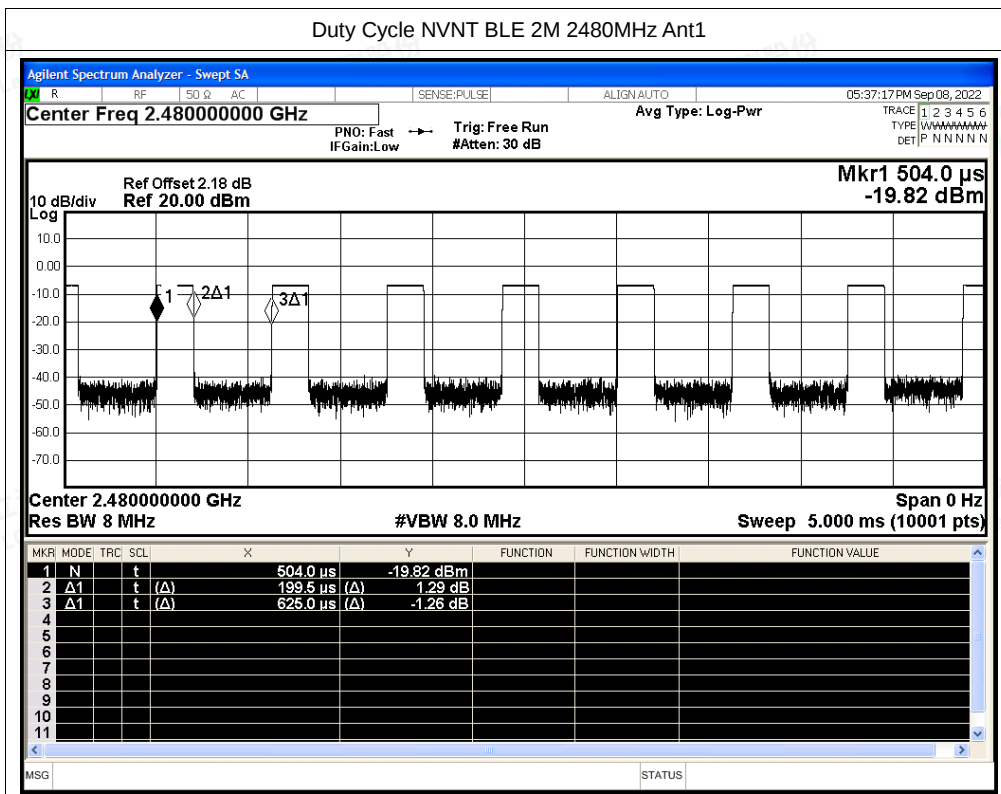
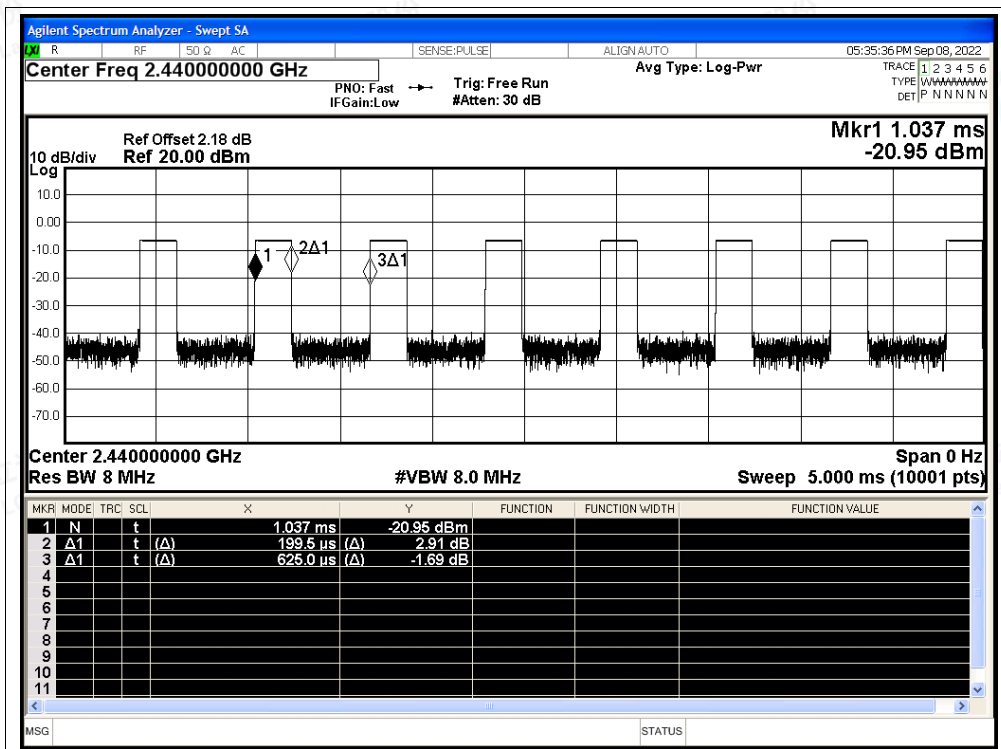
Test Graphs

Duty Cycle NVNT BLE 2M 2402MHz Ant1



Duty Cycle NVNT BLE 2M 2440MHz Ant1







B.7 Restrict Band

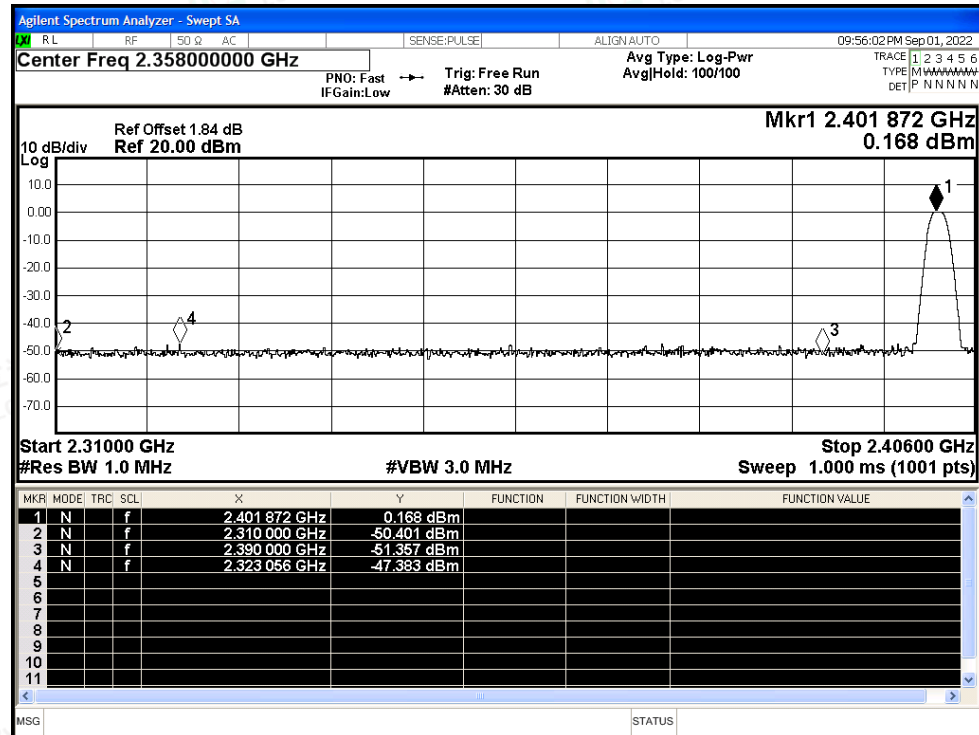
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1M	2402	Ant0	2310	-50.4	3.45	48.28	Peak	74	Pass
NVNT	BLE 1M	2402	Ant0	2310	-59.89	3.45	38.79	Average	54	Pass
NVNT	BLE 1M	2402	Ant0	2323.056	-47.38	3.45	51.30	Peak	74	Pass
NVNT	BLE 1M	2402	Ant0	2378.448	-58.91	3.45	39.77	Average	54	Pass
NVNT	BLE 1M	2402	Ant0	2390	-51.36	3.45	47.32	Peak	74	Pass
NVNT	BLE 1M	2402	Ant0	2390	-59.27	3.45	39.41	Average	54	Pass
NVNT	BLE 1M	2480	Ant0	2483.5	-49.28	3.45	49.40	Peak	74	Pass
NVNT	BLE 1M	2480	Ant0	2483.5	-59.23	3.45	39.45	Average	54	Pass
NVNT	BLE 1M	2480	Ant0	2496.592	-47.19	3.45	51.49	Peak	74	Pass
NVNT	BLE 1M	2480	Ant0	2499.184	-58.45	3.45	40.23	Average	54	Pass
NVNT	BLE 1M	2480	Ant0	2500	-50.54	3.45	48.14	Peak	74	Pass
NVNT	BLE 1M	2480	Ant0	2500	-59.26	3.45	39.42	Average	54	Pass
NVNT	BLE 2M	2402	Ant1	2310	-49.06	3.45	49.62	Peak	74	Pass
NVNT	BLE 2M	2402	Ant1	2310	-57.55	3.45	41.13	Average	54	Pass
NVNT	BLE 2M	2402	Ant1	2333.424	-45.53	3.45	53.15	Peak	74	Pass
NVNT	BLE 2M	2402	Ant1	2380.656	-56.53	3.45	42.15	Average	54	Pass
NVNT	BLE 2M	2402	Ant1	2390	-50.35	3.45	48.33	Peak	74	Pass
NVNT	BLE 2M	2402	Ant1	2390	-57.34	3.45	41.34	Average	54	Pass
NVNT	BLE 2M	2480	Ant1	2483.5	-48.22	3.45	50.46	Peak	74	Pass
NVNT	BLE 2M	2480	Ant1	2483.5	-56.26	3.45	42.42	Average	54	Pass
NVNT	BLE 2M	2480	Ant1	2496.448	-45.79	3.45	52.89	Peak	74	Pass
NVNT	BLE 2M	2480	Ant1	2489.296	-56.13	3.45	42.55	Average	54	Pass
NVNT	BLE 2M	2480	Ant1	2500	-50.26	3.45	48.42	Peak	74	Pass
NVNT	BLE 2M	2480	Ant1	2500	-57.23	3.45	41.45	Average	54	Pass



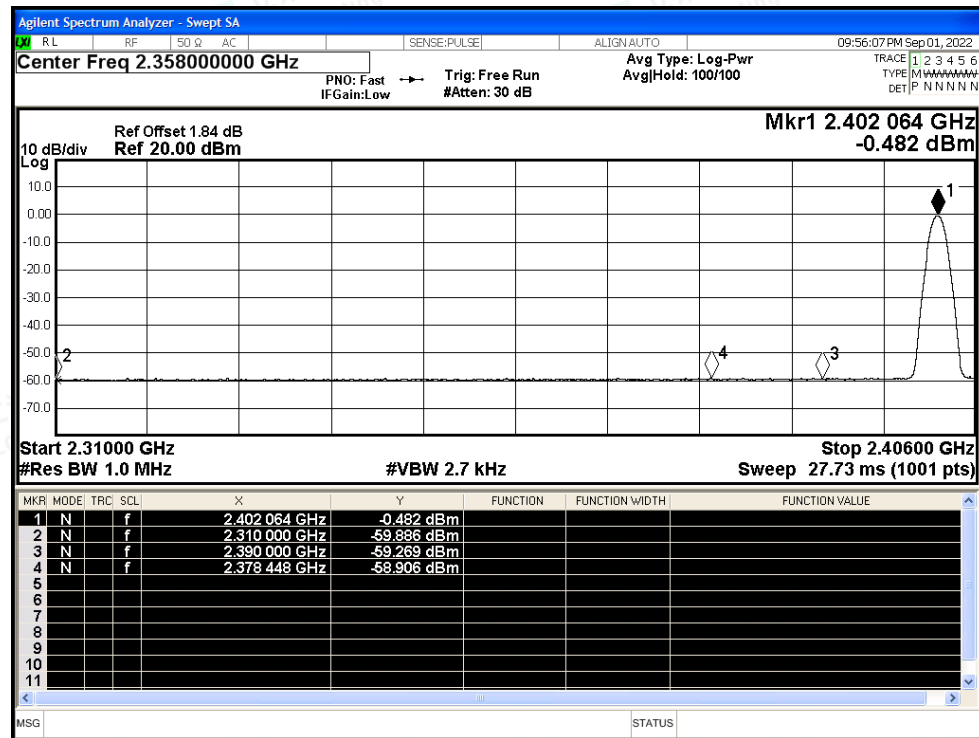


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant0 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant0 Average



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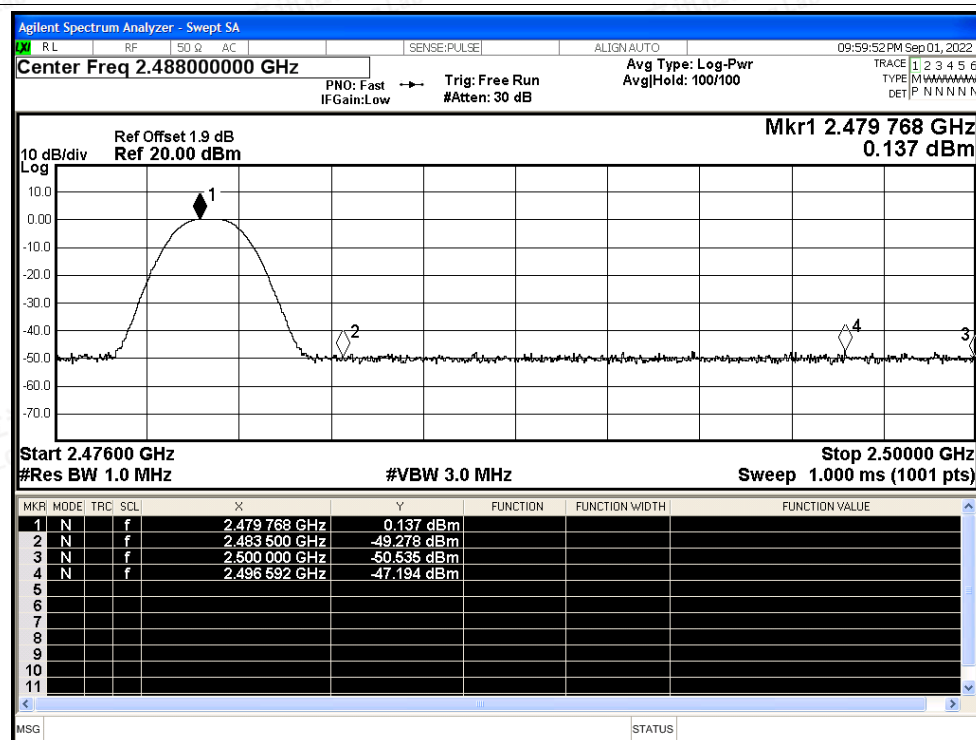
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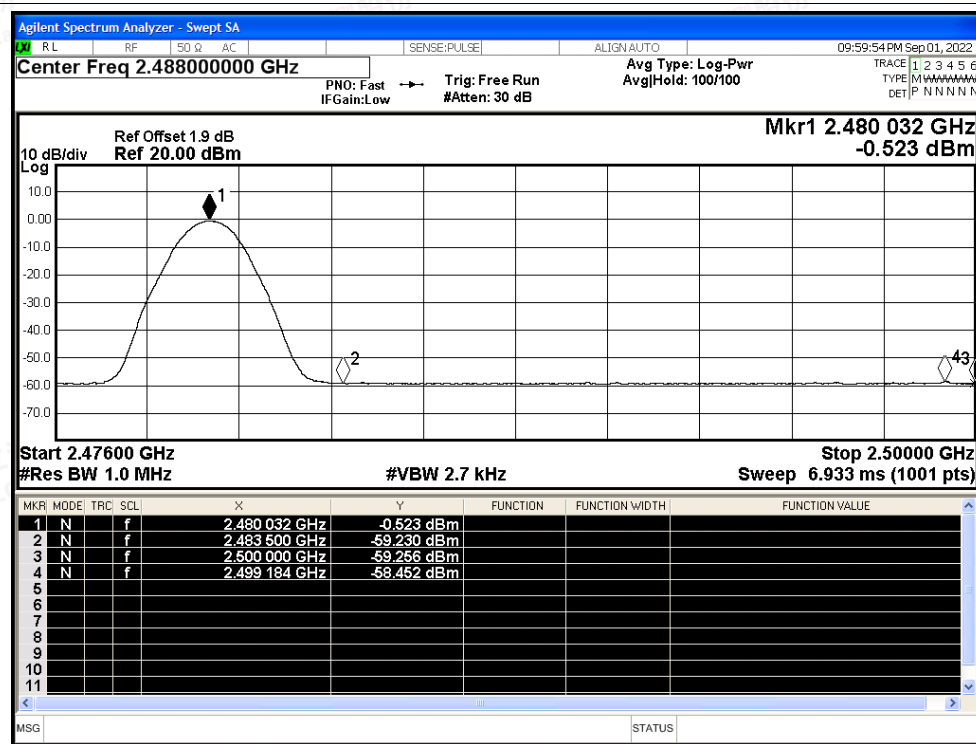
Scan code to check authenticity



Restrict Band NVNT BLE 1M 2480MHz Ant0 Peak



Restrict Band NVNT BLE 1M 2480MHz Ant0 Average



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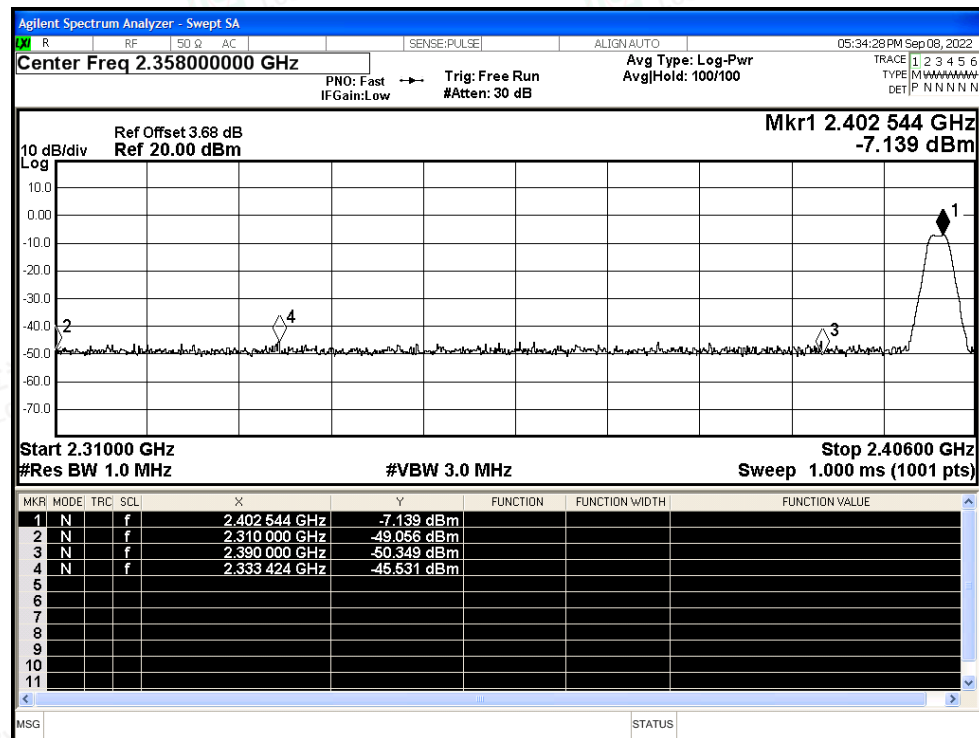
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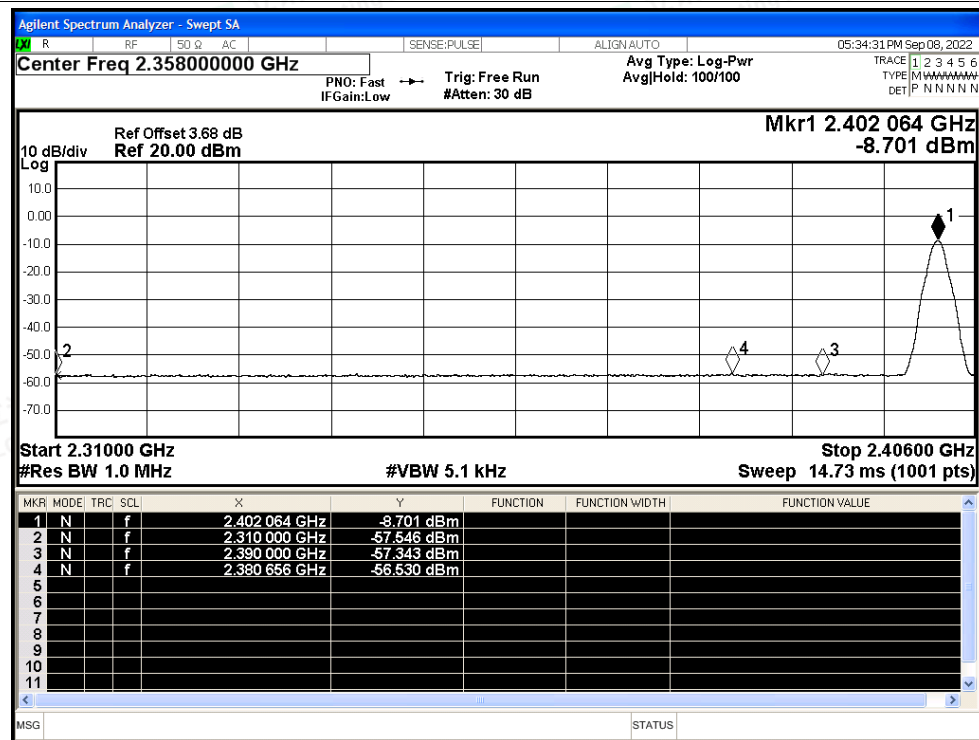


Test Graphs

Restrict Band NVNT BLE 2M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 2M 2402MHz Ant1 Average



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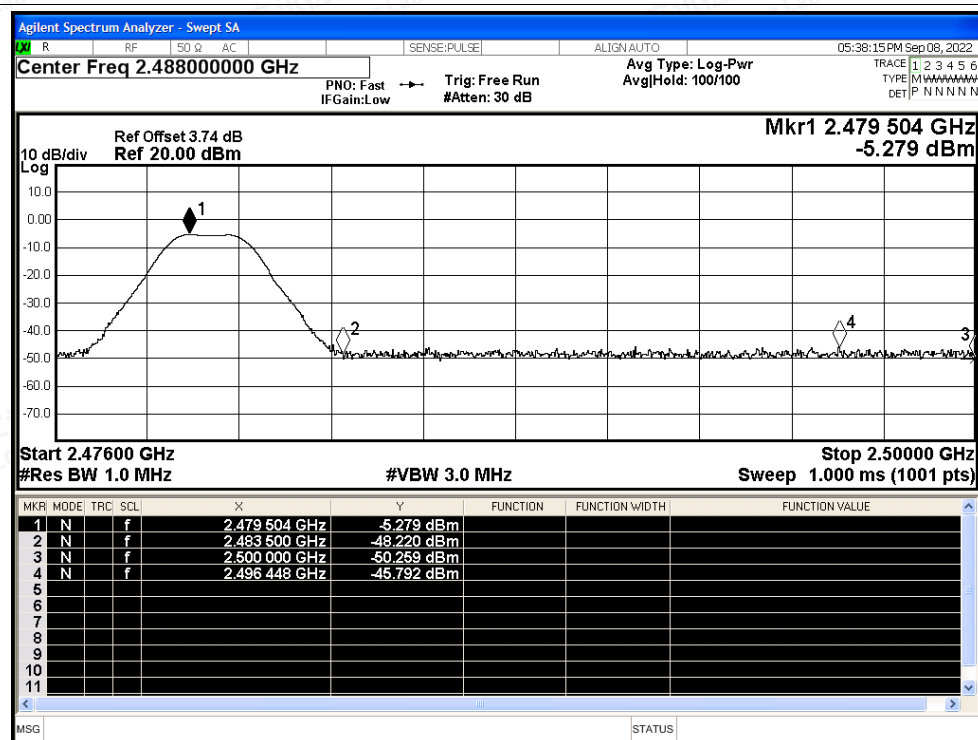
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Restrict Band NVNT BLE 2M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 2M 2480MHz Ant1 Average

