



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: Prodigy Connect 12(Tablet PC)

Test Model: PGI-401

Environmental Conditions

Temperature:	23.1° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Jack Cheng
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	Ant1	0.673	≥ 0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.705	≥ 0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.69	≥ 0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.132	≥ 0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.149	≥ 0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.152	≥ 0.5	Pass

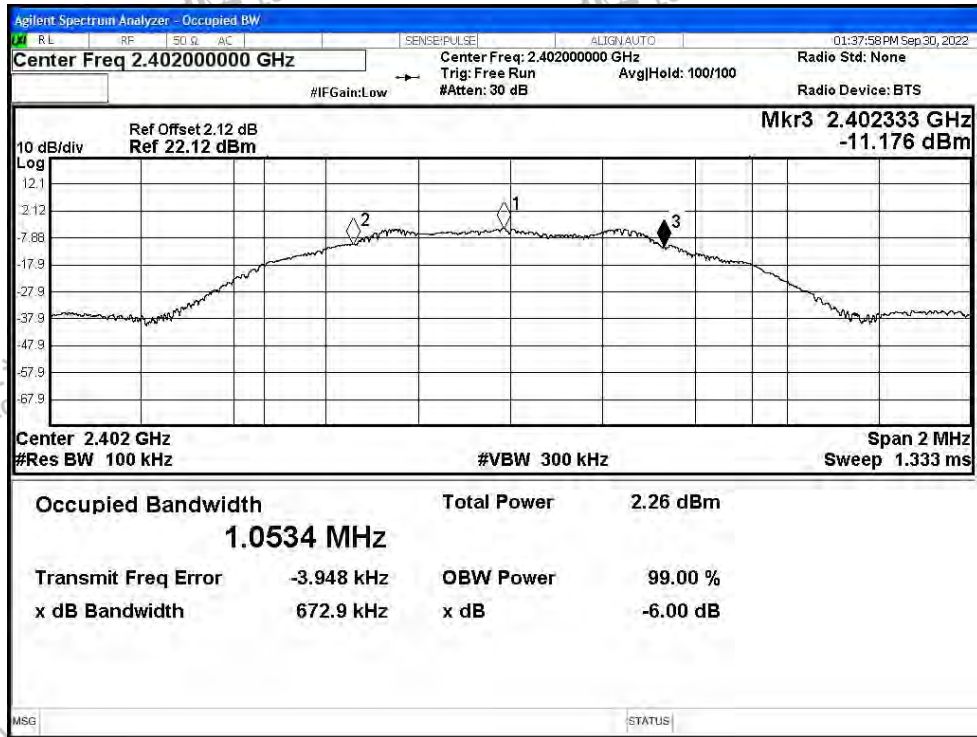


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Scan code to check authenticity

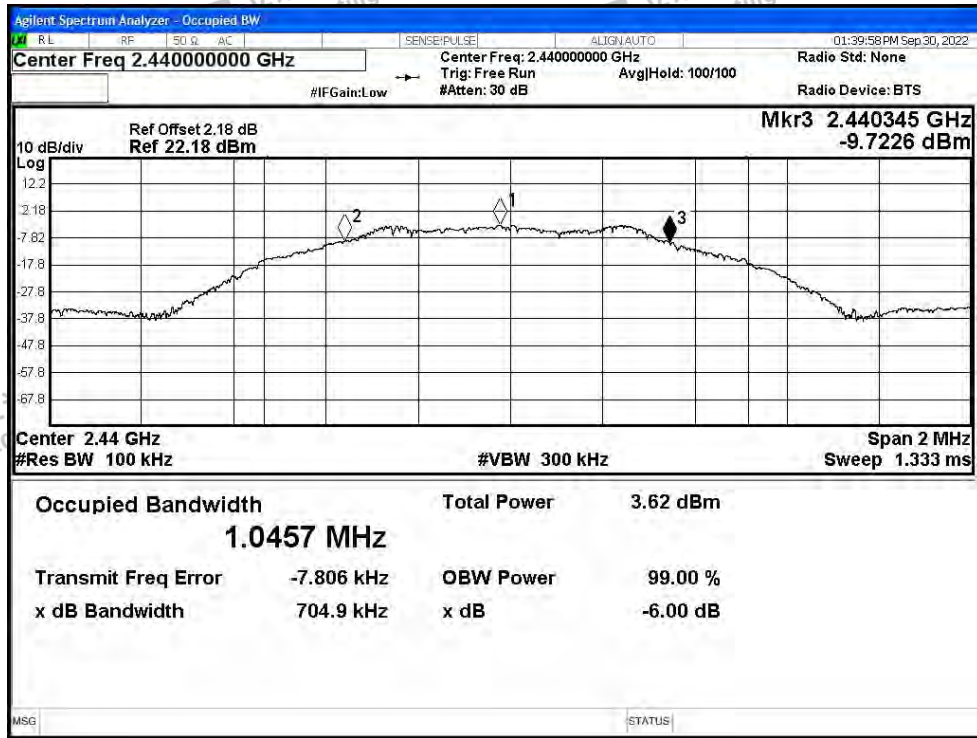


Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1

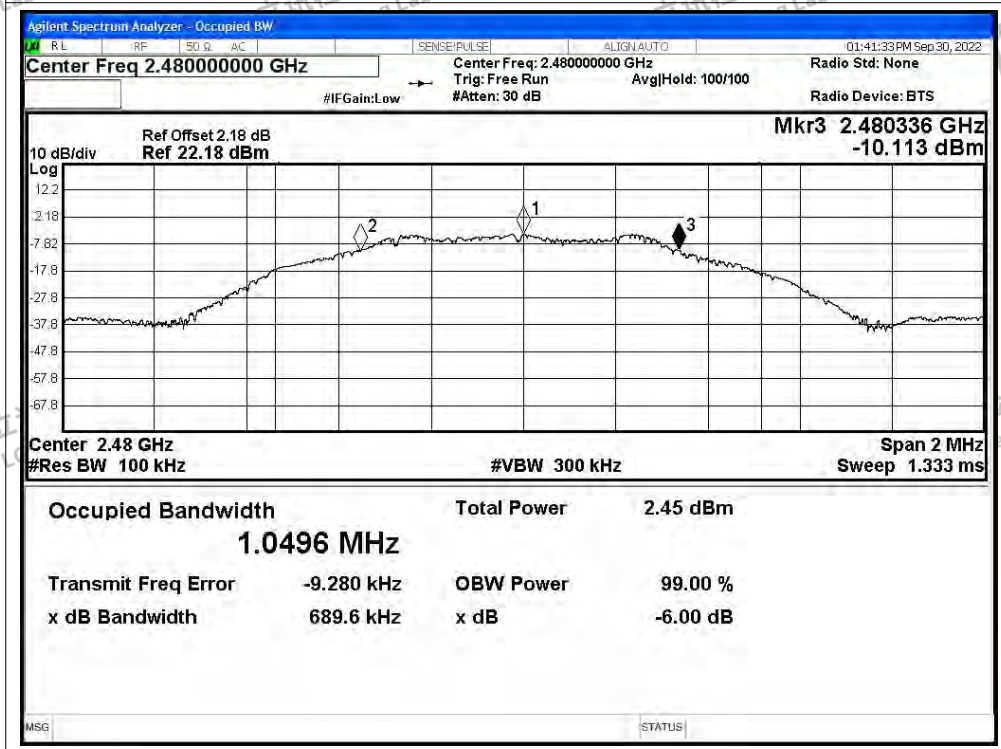


-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1





-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1

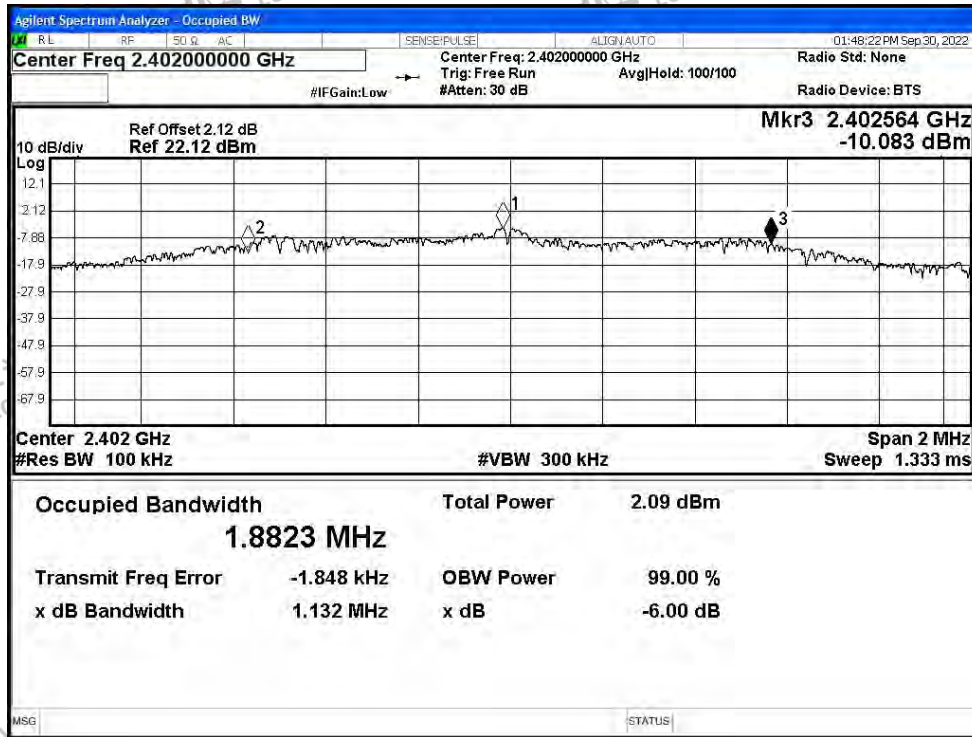


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 Scan code to check authenticity

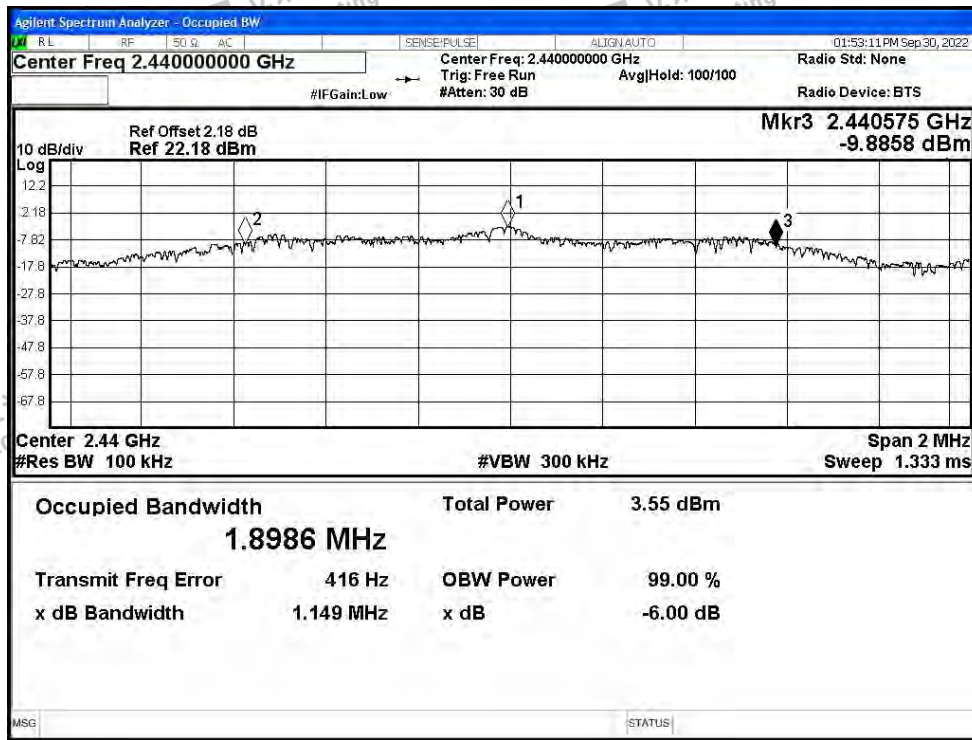


Test Graphs

-6dB Bandwidth NVNT BLE 2M 2402MHz Ant1

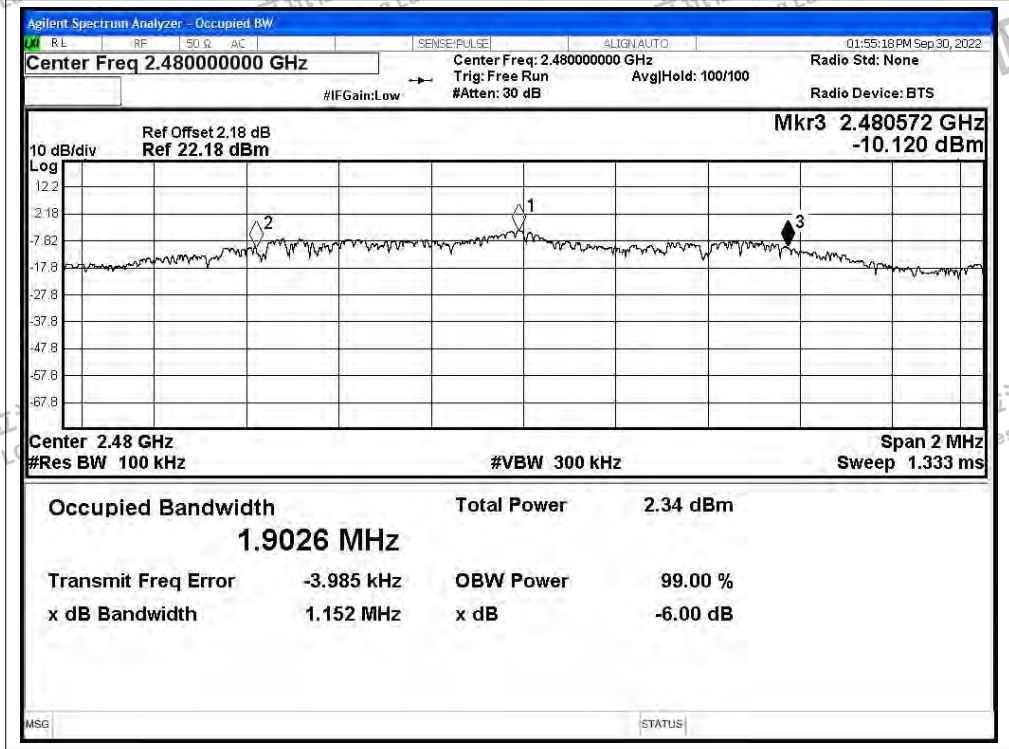


-6dB Bandwidth NVNT BLE 2M 2440MHz Ant1





-6dB Bandwidth NVNT BLE 2M 2480MHz Ant1





B.2 Maximum Conducted Output Power

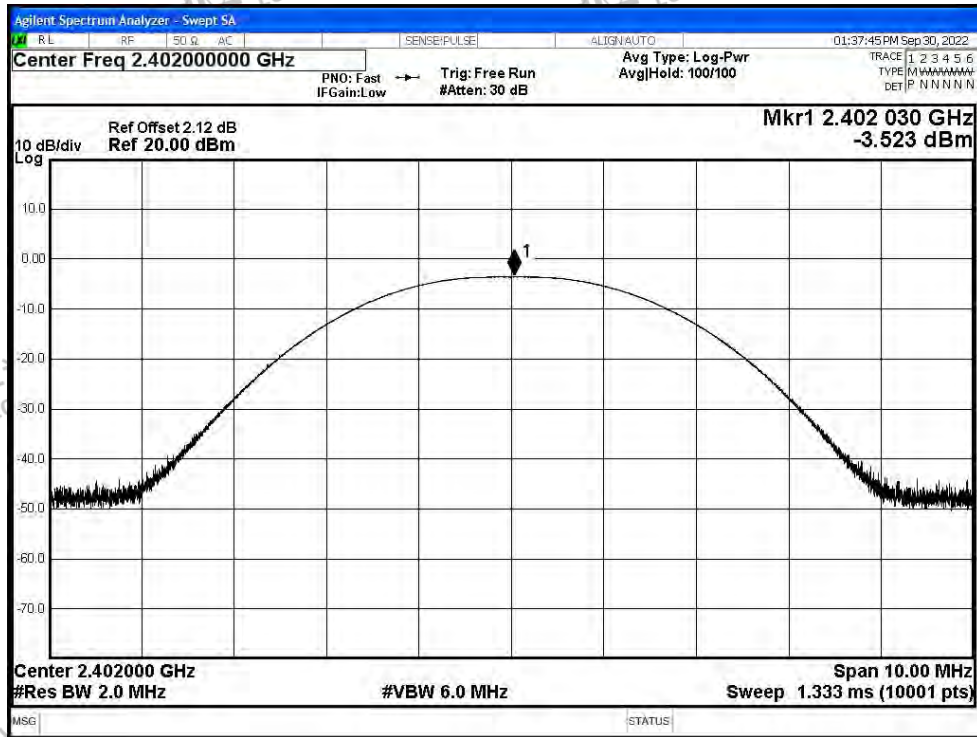
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-3.52	30	Pass
NVNT	BLE 1M	2440	Ant1	-2.17	30	Pass
NVNT	BLE 1M	2480	Ant1	-3.26	30	Pass
NVNT	BLE 2M	2402	Ant1	-3.55	30	Pass
NVNT	BLE 2M	2440	Ant1	-2.22	30	Pass
NVNT	BLE 2M	2480	Ant1	-3.30	30	Pass



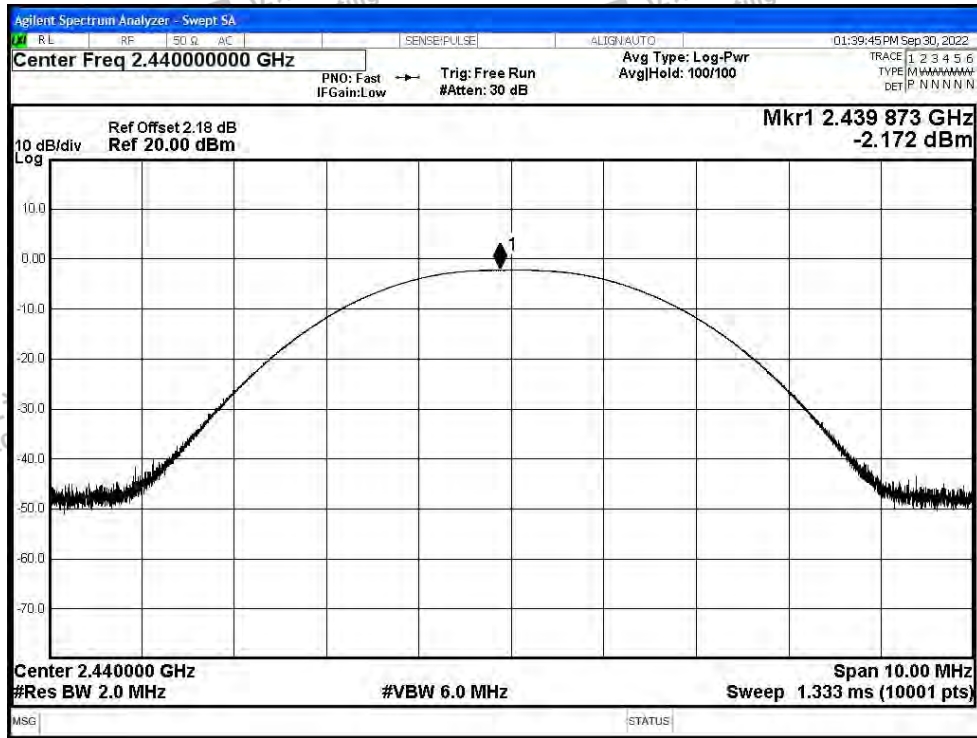


Test Graphs

Power NVNT BLE 1M 2402MHz Ant1

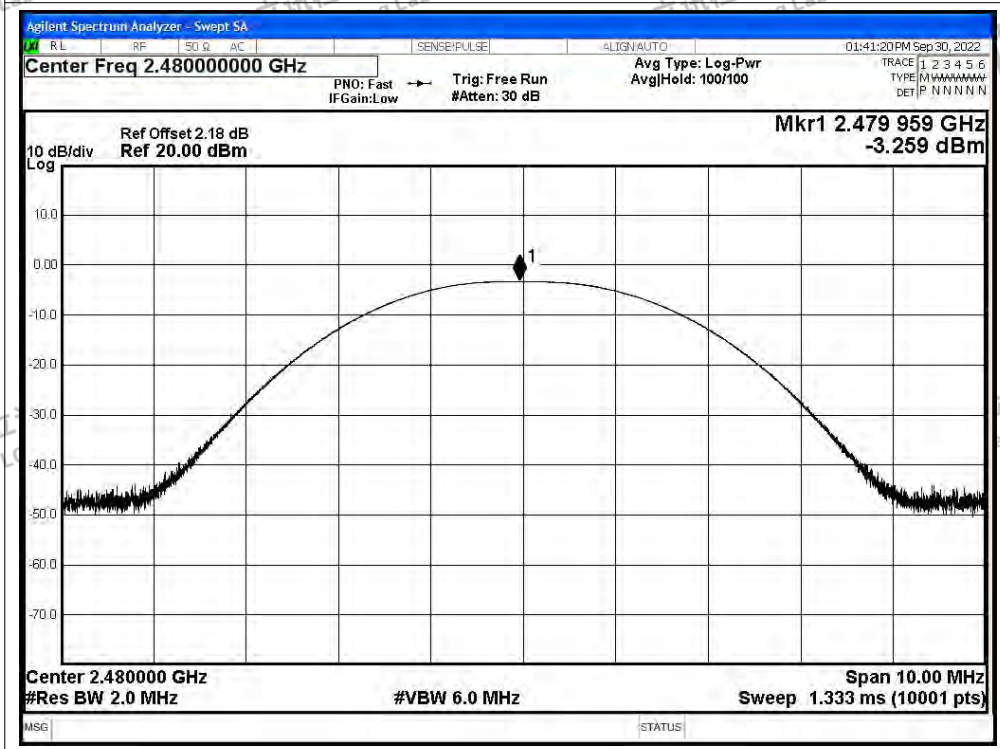


Power NVNT BLE 1M 2440MHz Ant1



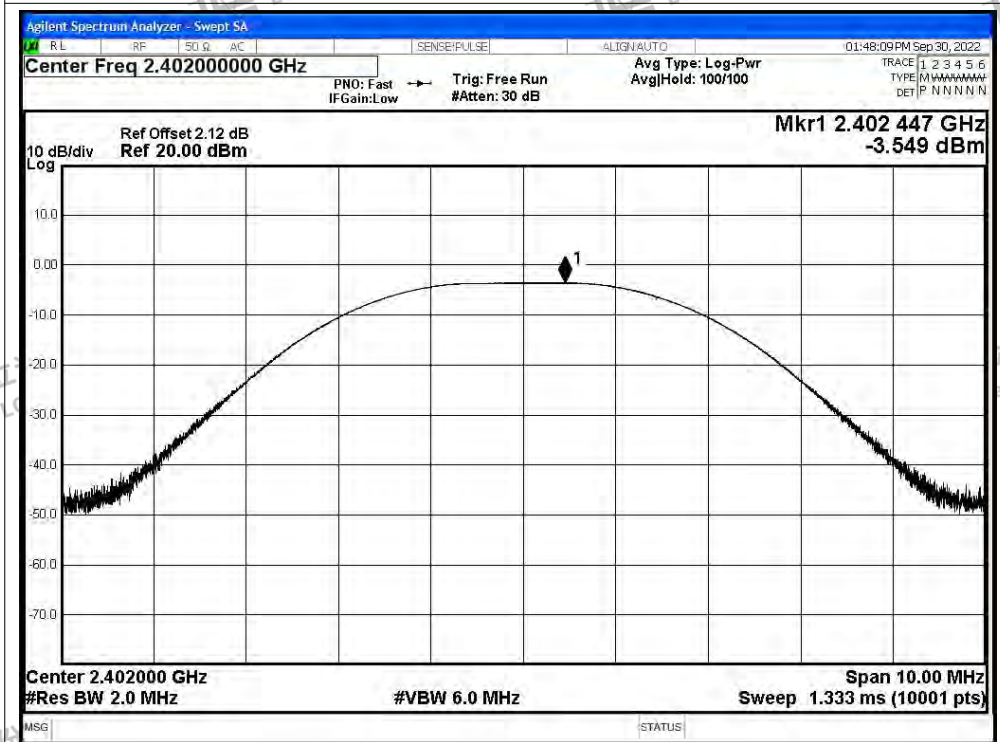


Power NVNT BLE 1M 2480MHz Ant1



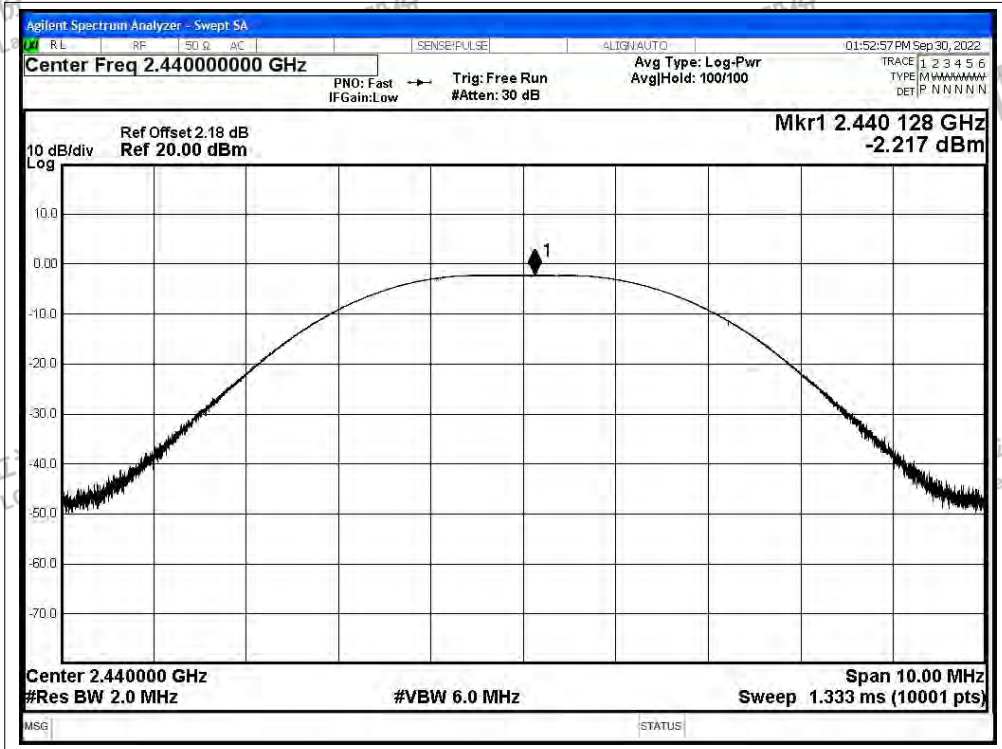
Test Graphs

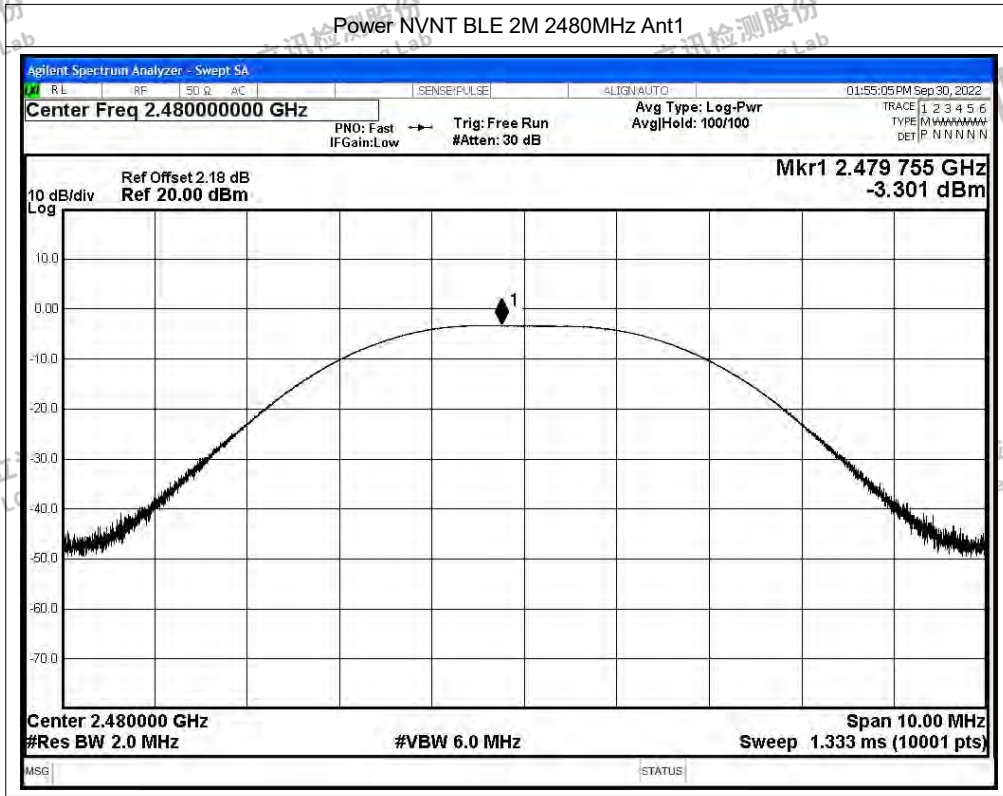
Power NVNT BLE 2M 2402MHz Ant1



Power NVNT BLE 2M 2440MHz Ant1









B.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	-18.37	0	-18.37	8	Pass
NVNT	BLE 1M	2440	Ant1	-17.02	0	-17.02	8	Pass
NVNT	BLE 1M	2480	Ant1	-18.15	0	-18.15	8	Pass
NVNT	BLE 2M	2402	Ant1	-21.01	0	-21.01	8	Pass
NVNT	BLE 2M	2440	Ant1	-19.68	0	-19.68	8	Pass
NVNT	BLE 2M	2480	Ant1	-20.75	0	-20.75	8	Pass

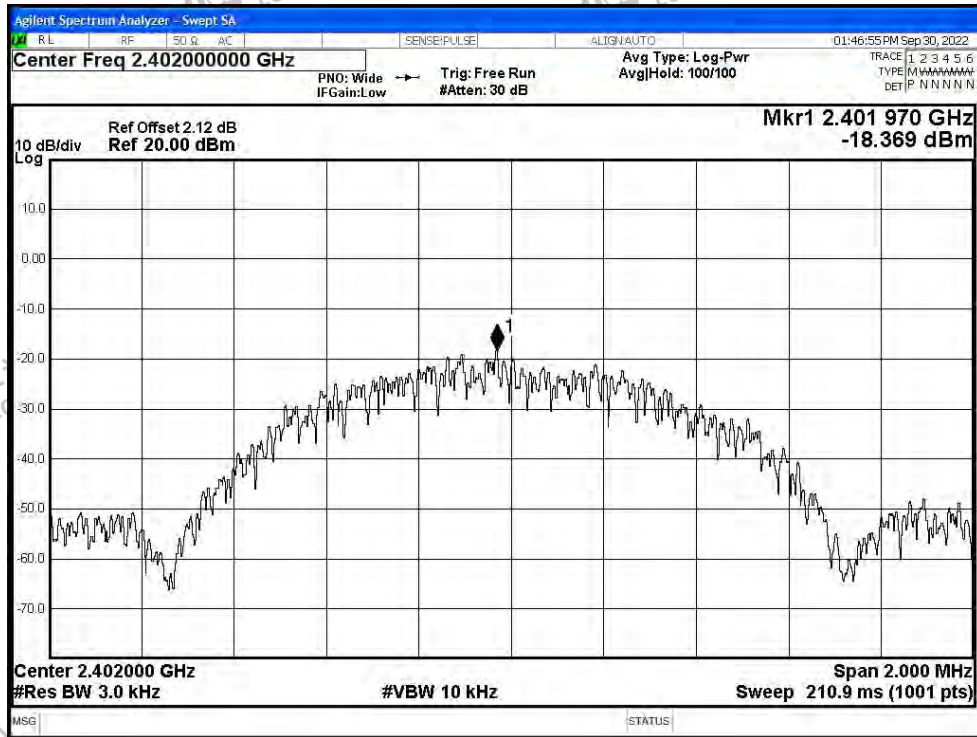


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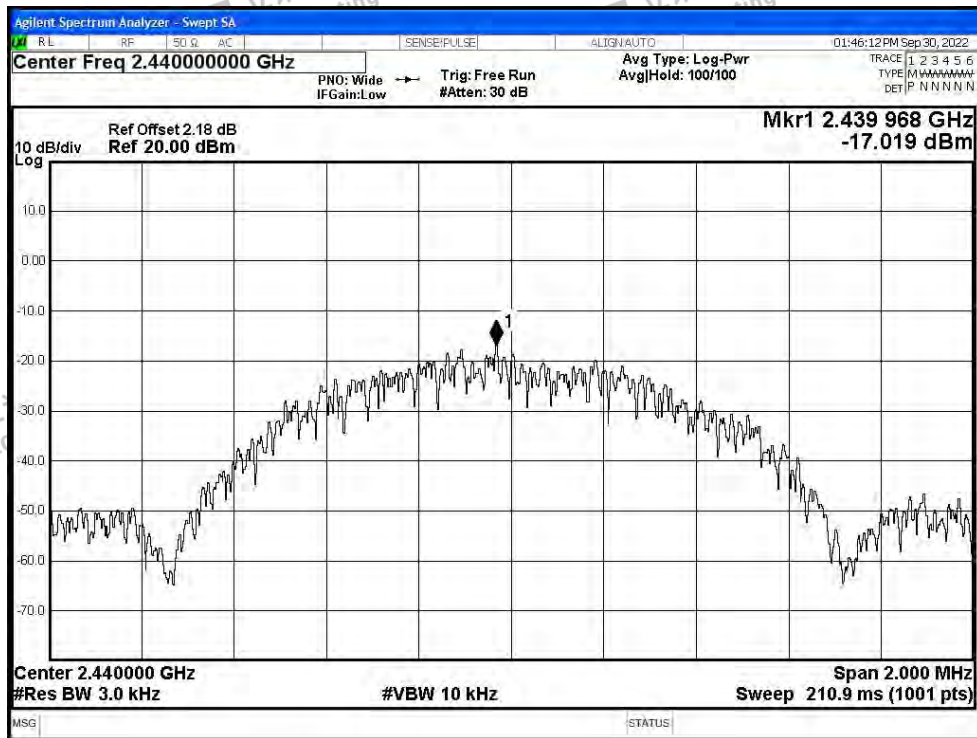


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1

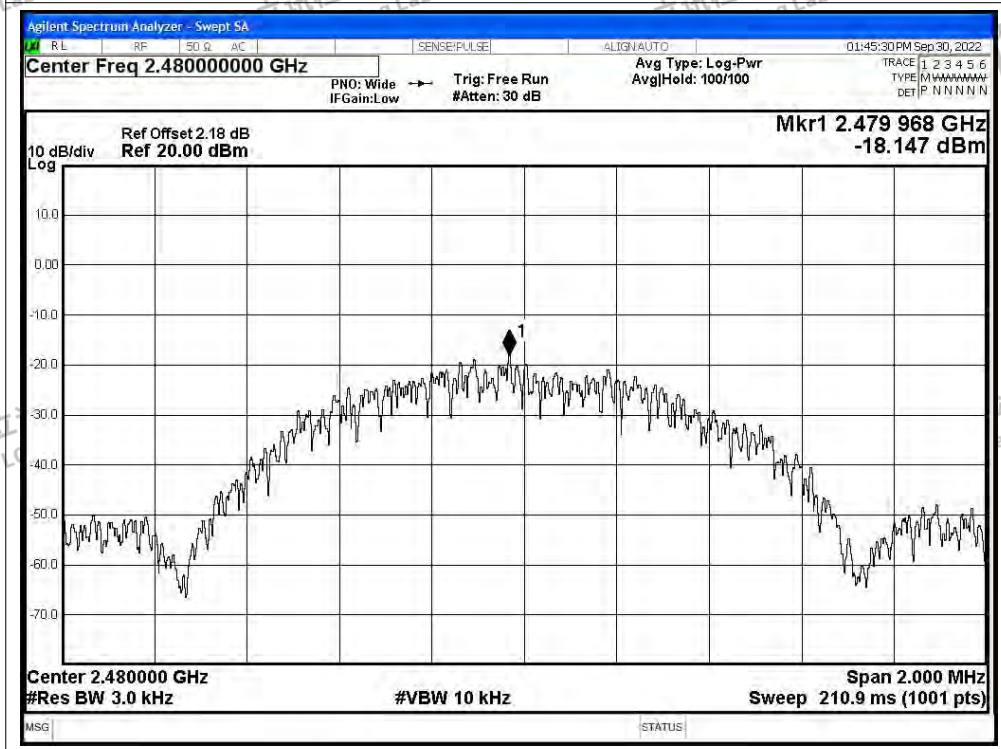


PSD NVNT BLE 1M 2440MHz Ant1





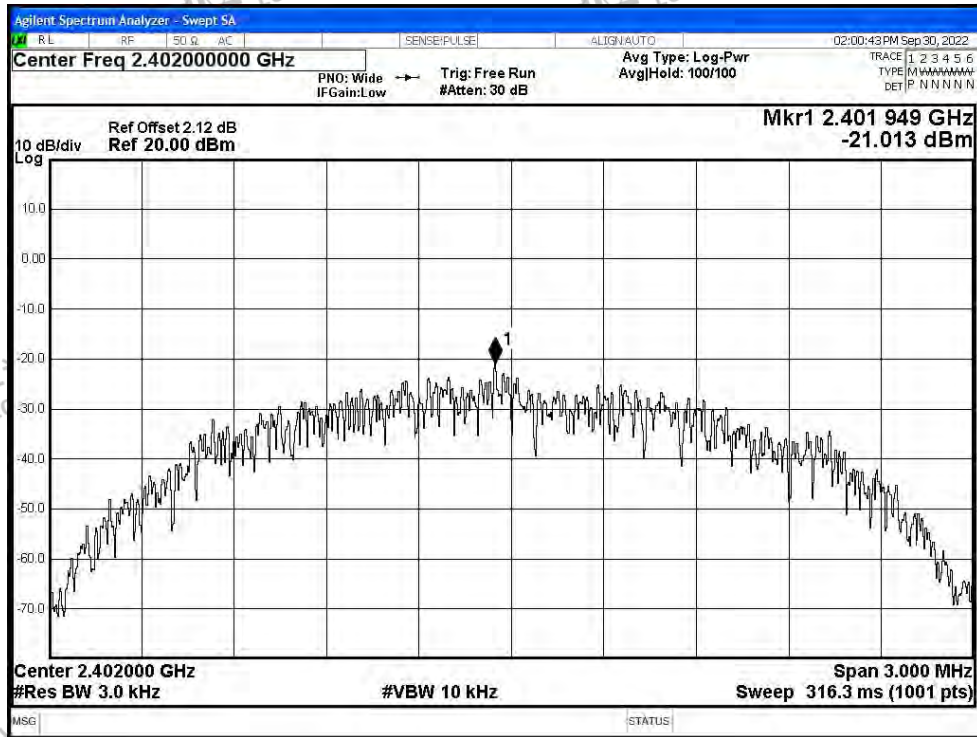
PSD NVNT BLE 1M 2480MHz Ant1



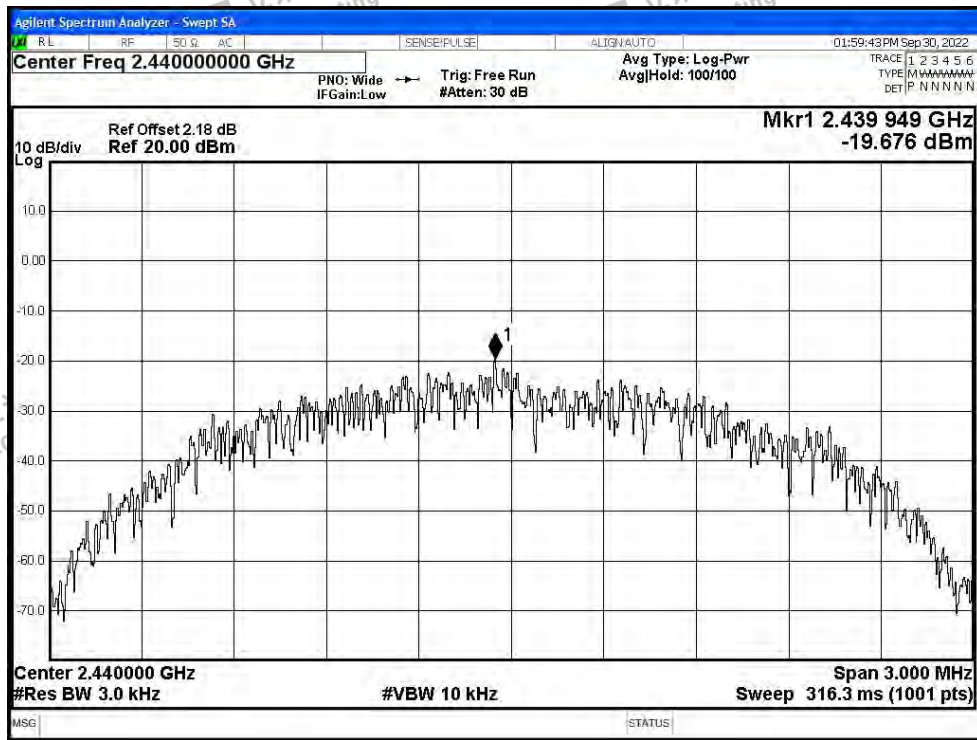


Test Graphs

PSD NVNT BLE 2M 2402MHz Ant1

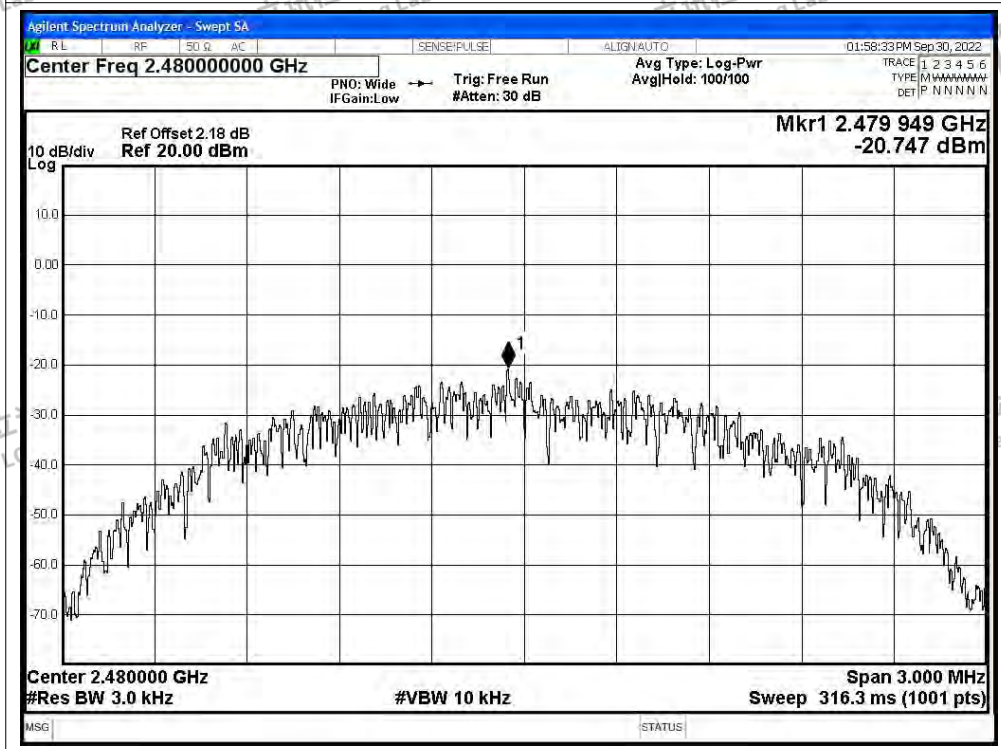


PSD NVNT BLE 2M 2440MHz Ant1





PSD NVNT BLE 2M 2480MHz 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	-52.27	-20	Pass
NVNT	BLE 1M	2480	Ant1	-51.27	-20	Pass
NVNT	BLE 2M	2402	Ant1	-30.12	-20	Pass
NVNT	BLE 2M	2480	Ant1	-53.38	-20	Pass

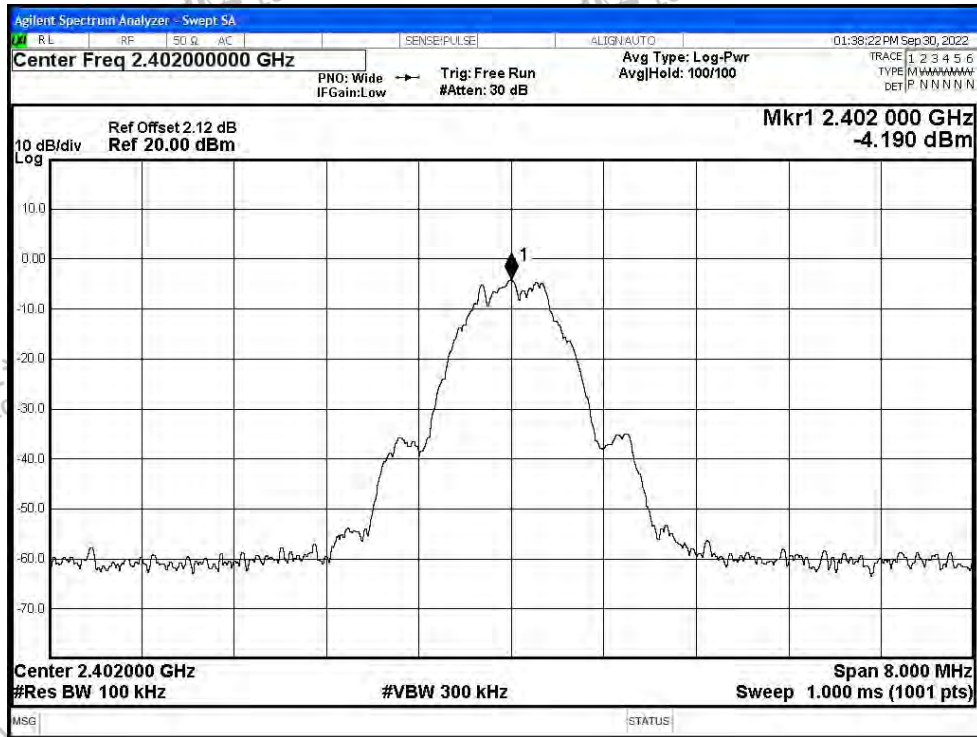


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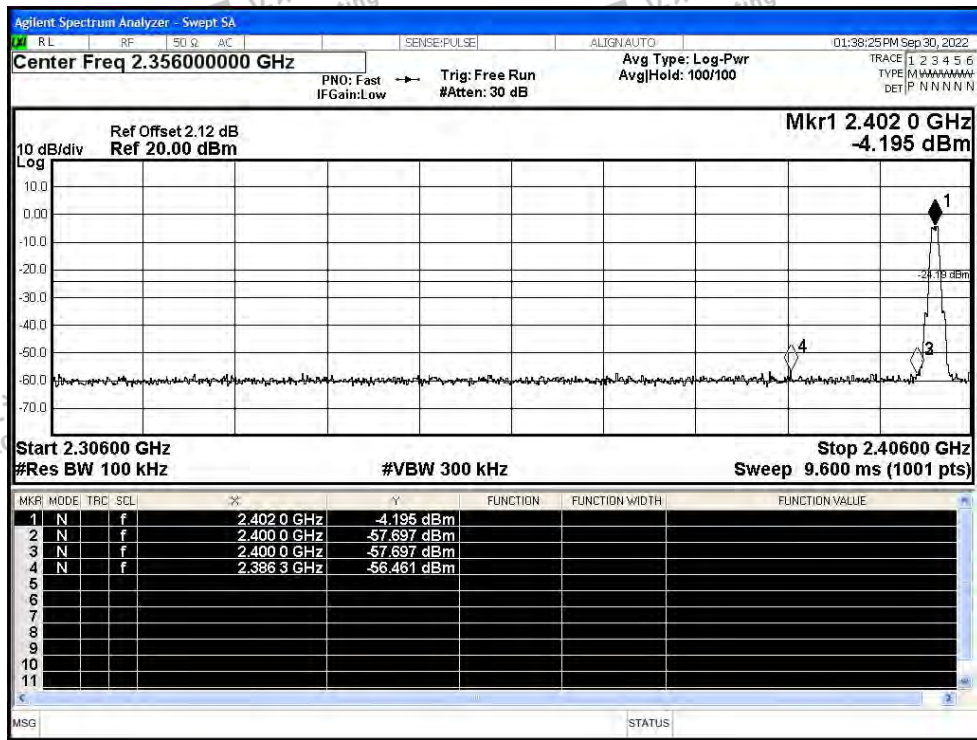


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref

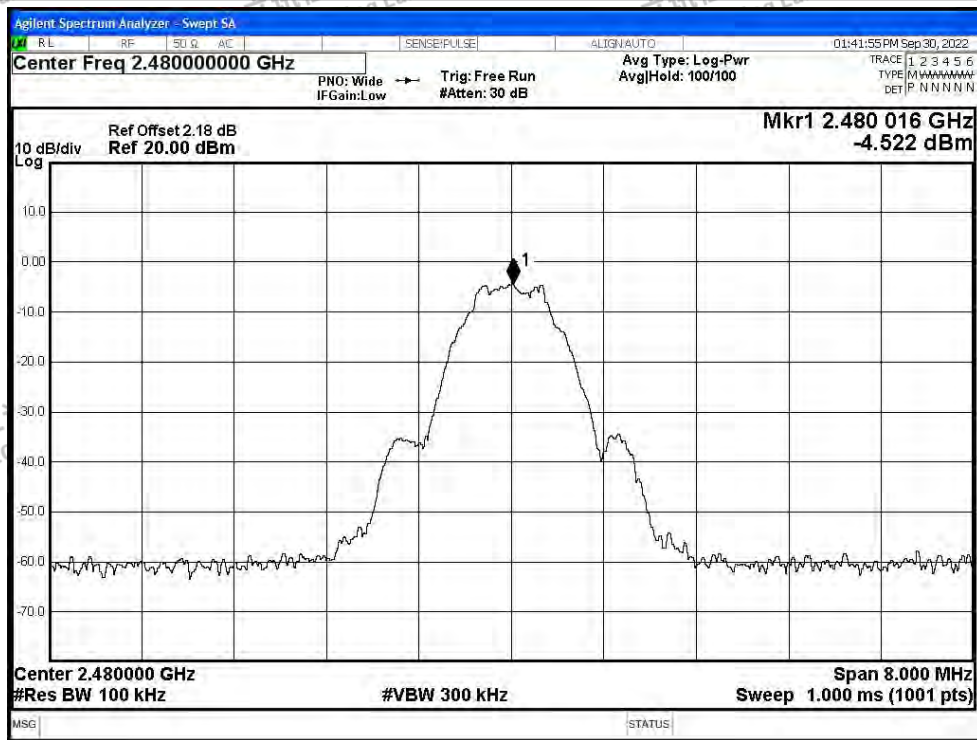


Band Edge NVNT BLE 1M 2402MHz Ant1 Emission

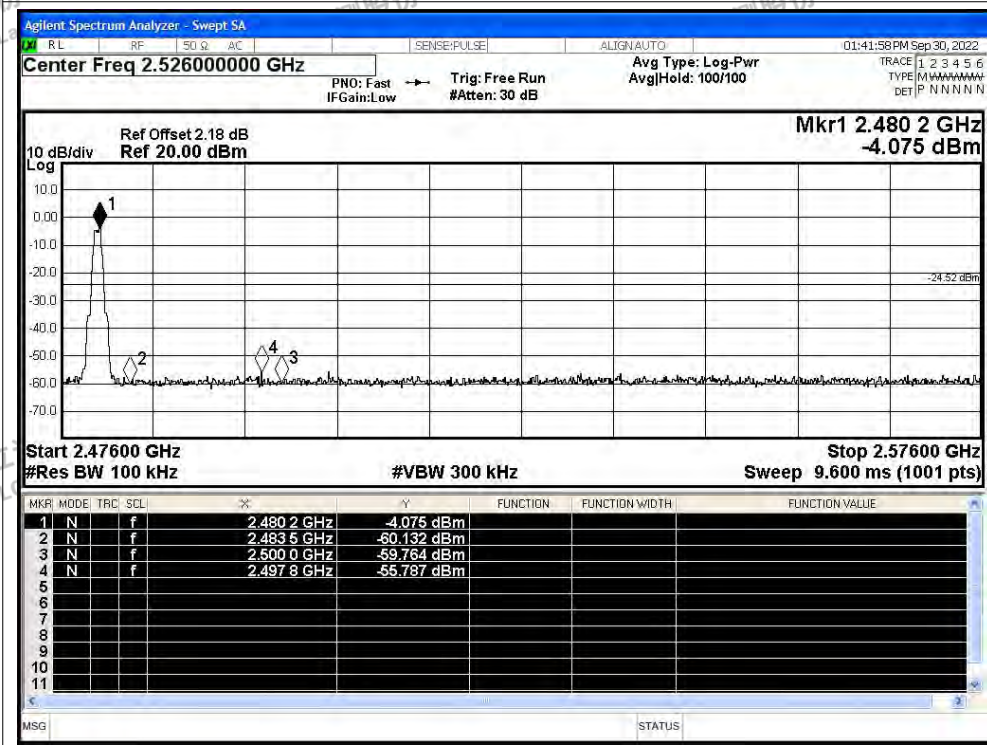




Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



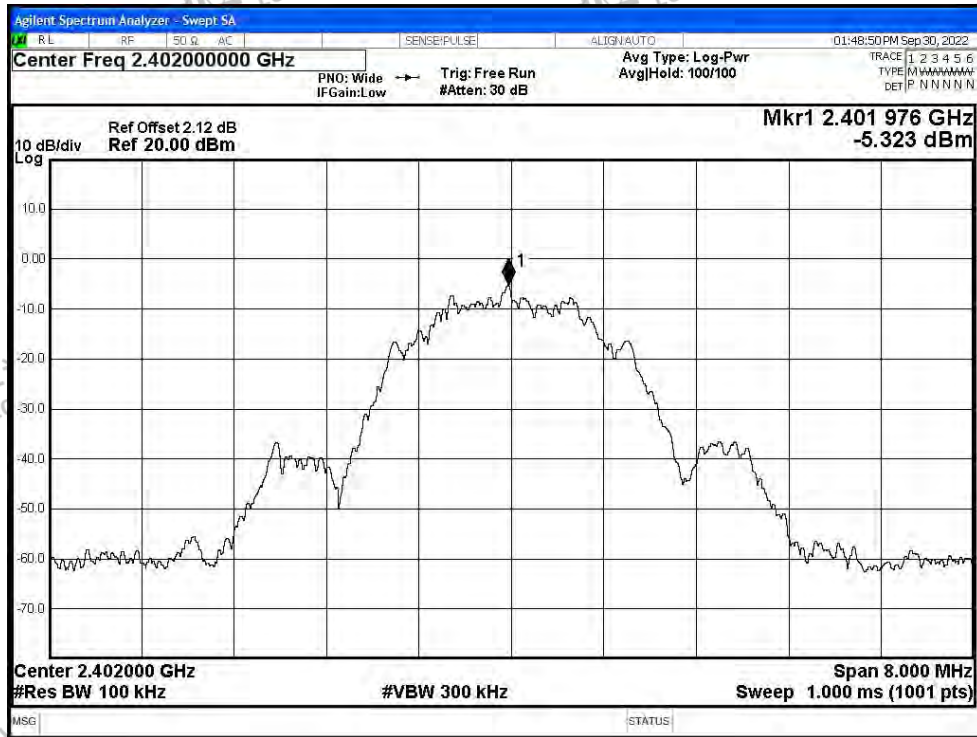
Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



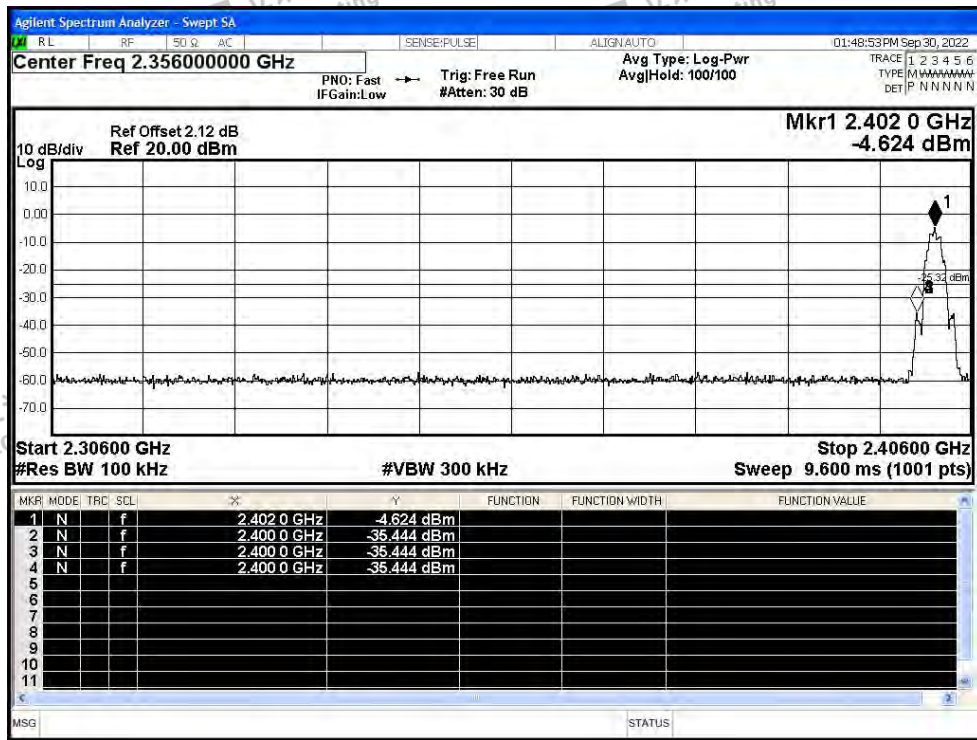


Test Graphs

Band Edge NVNT BLE 2M 2402MHz Ant1 Ref

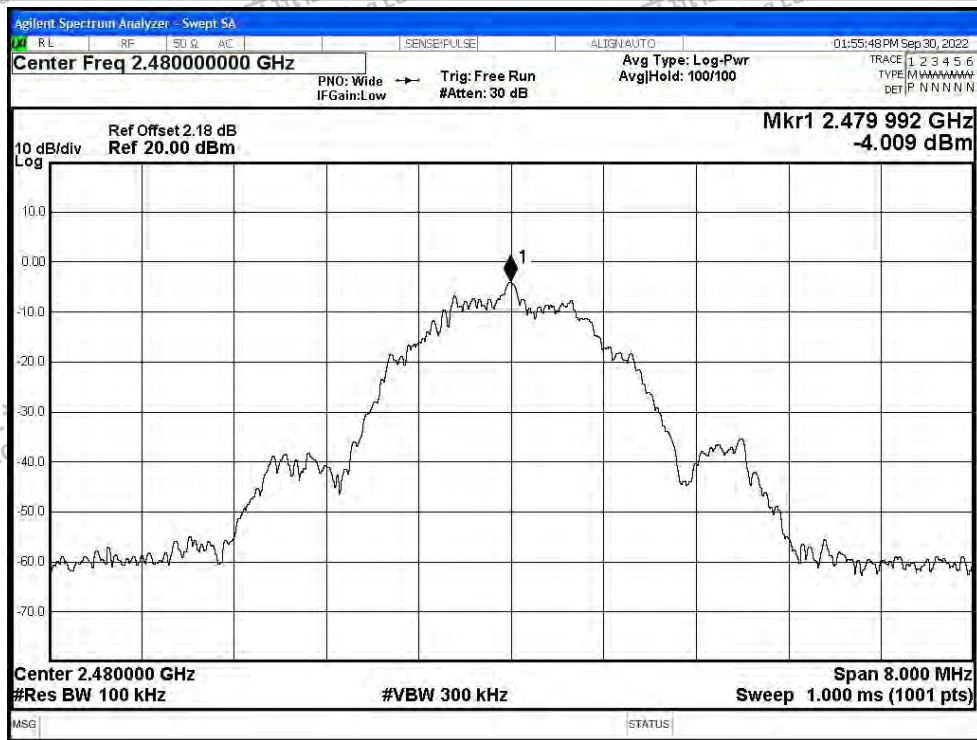


Band Edge NVNT BLE 2M 2402MHz Ant1 Emission

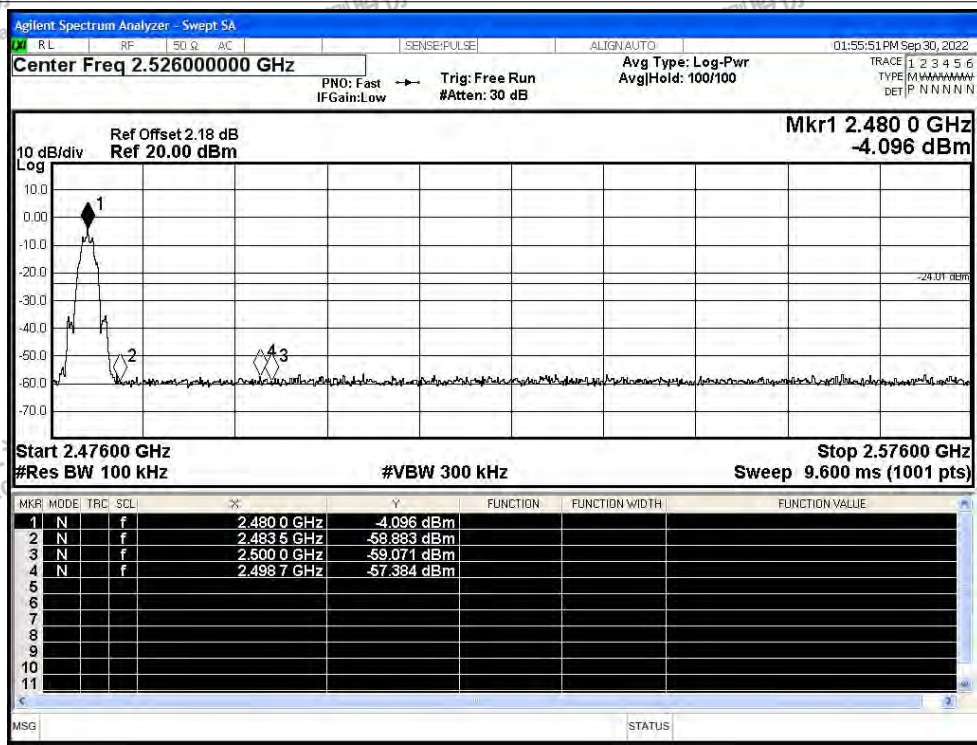




Band Edge NVNT BLE 2M 2480MHz Ant1 Ref



Band Edge NVNT BLE 2M 2480MHz Ant1 Emission





B.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-51.49	-20	Pass
NVNT	BLE 1M	2440	Ant1	-52.71	-20	Pass
NVNT	BLE 1M	2480	Ant1	-50.45	-20	Pass
NVNT	BLE 2M	2402	Ant1	-50.54	-20	Pass
NVNT	BLE 2M	2440	Ant1	-51.4	-20	Pass
NVNT	BLE 2M	2480	Ant1	-51.04	-20	Pass

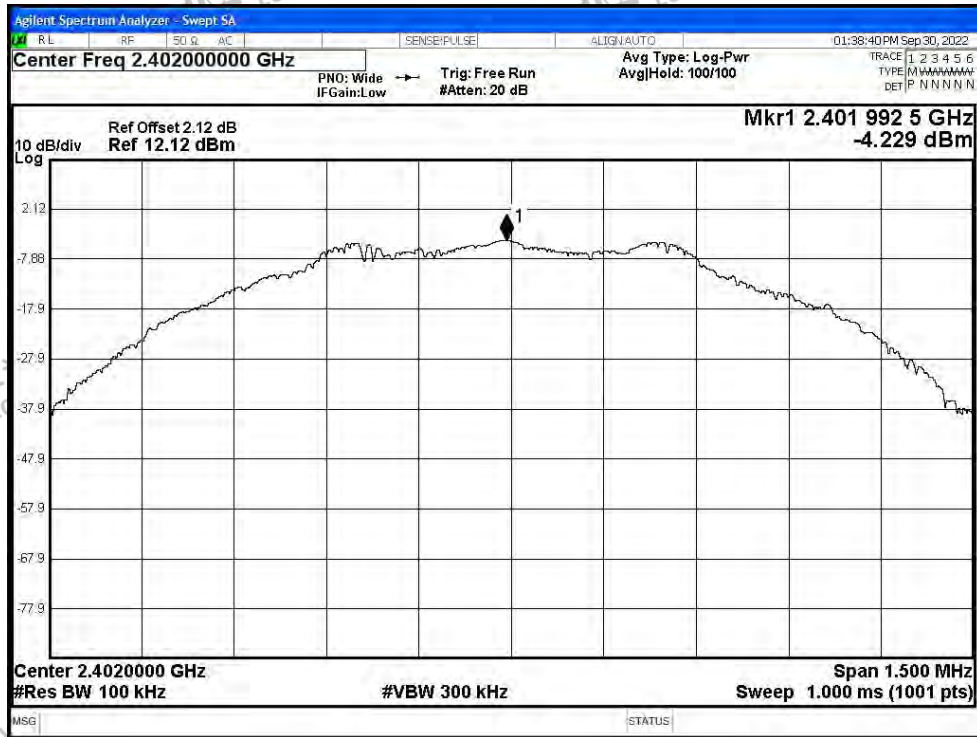


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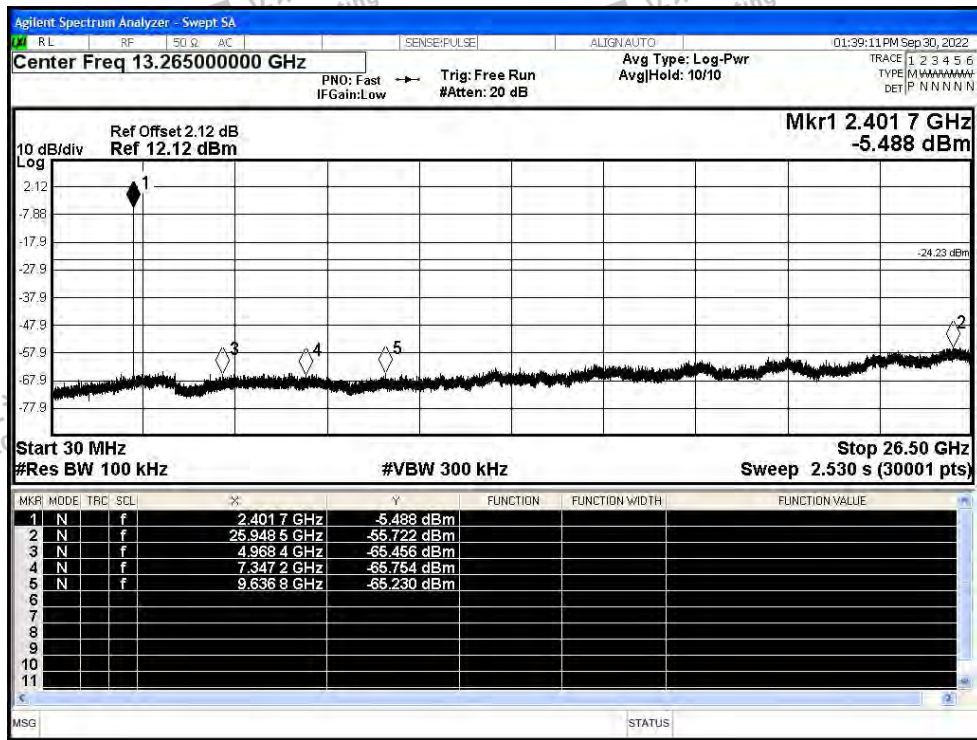


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref

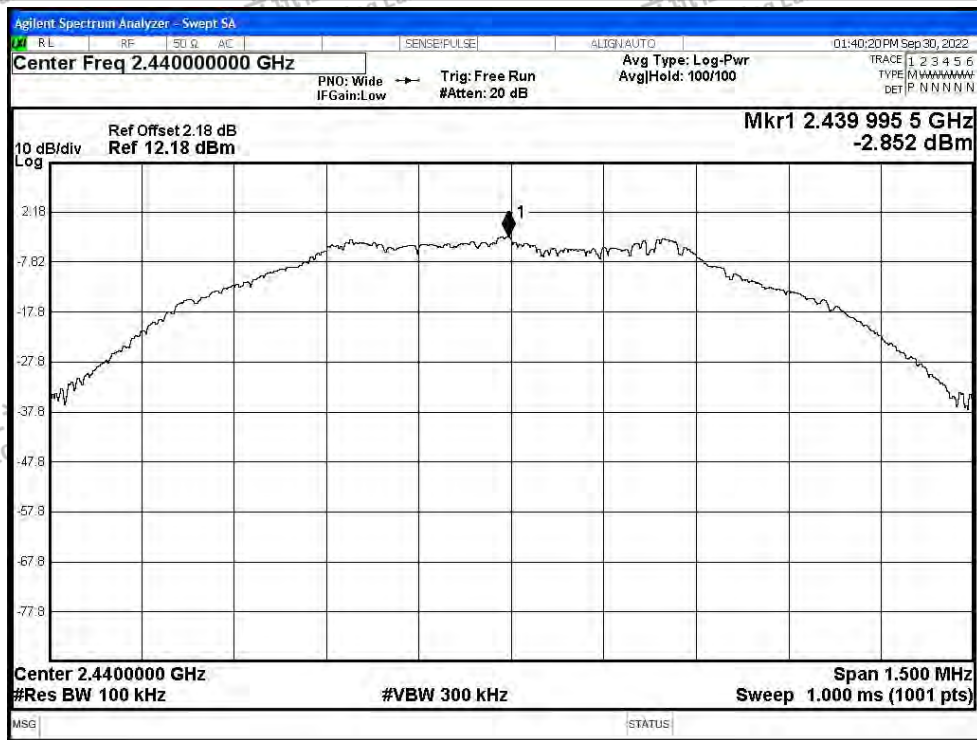


Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission

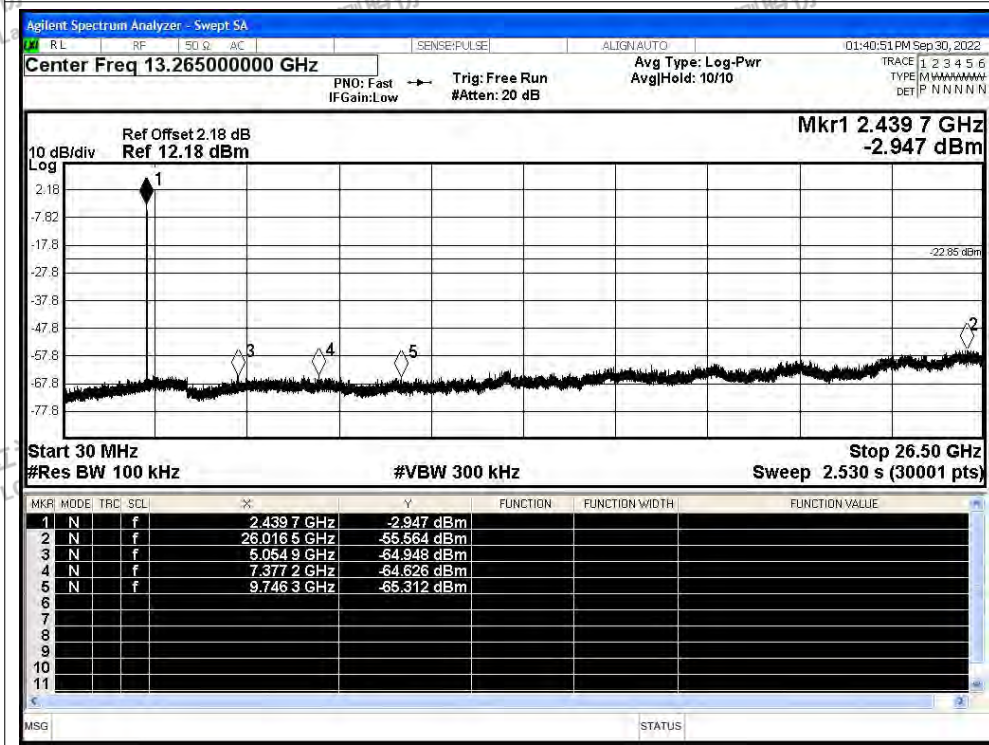




Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref

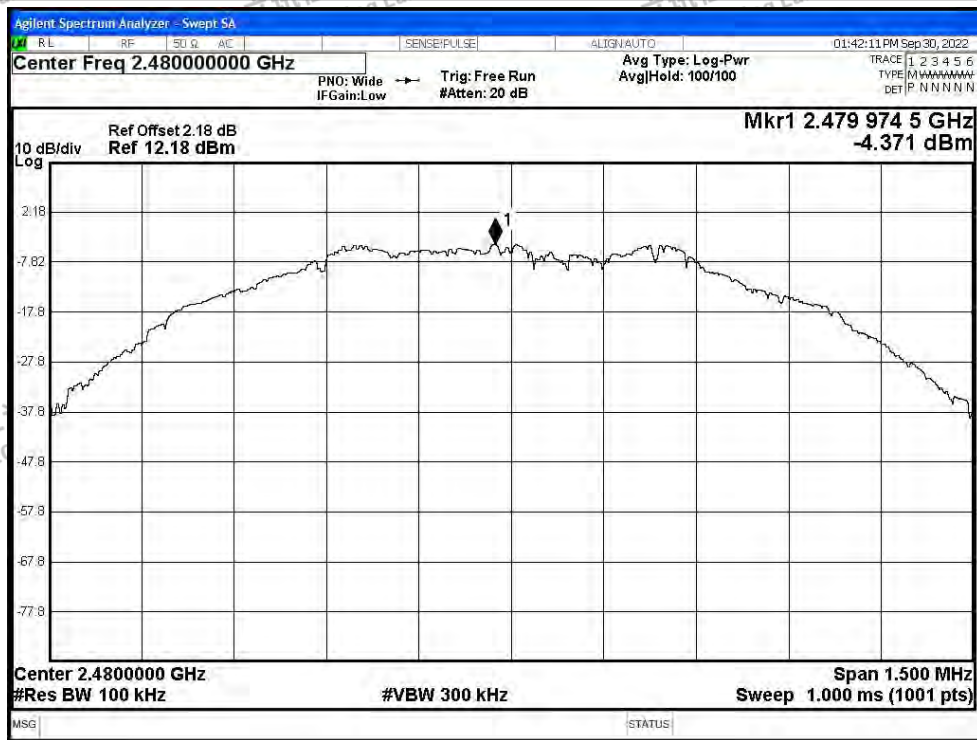


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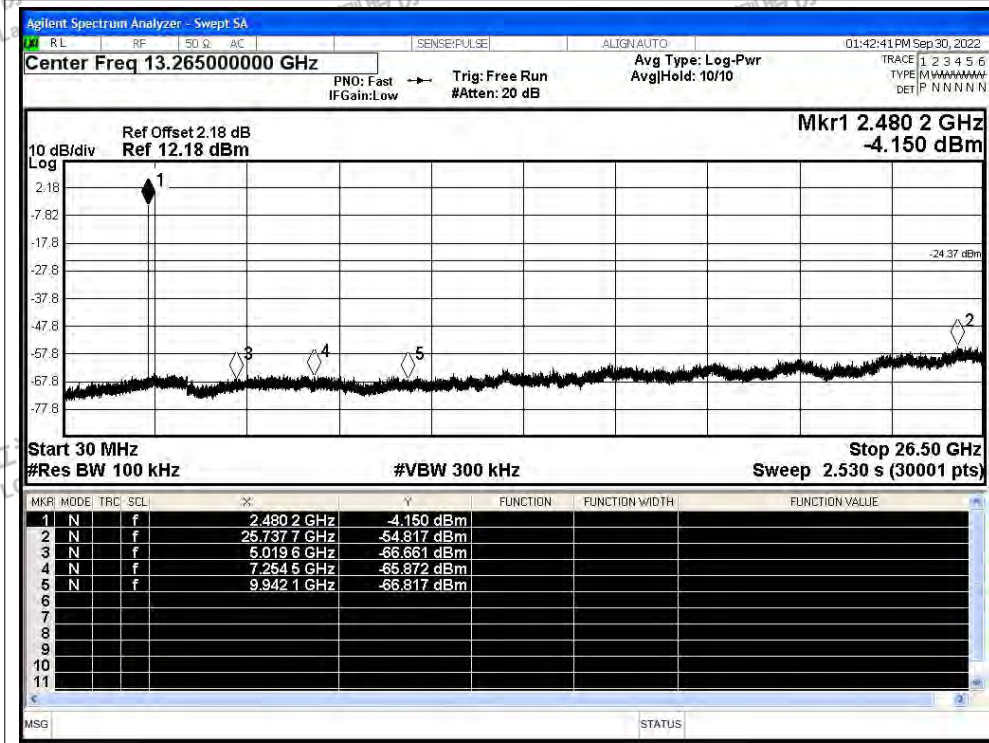




Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref

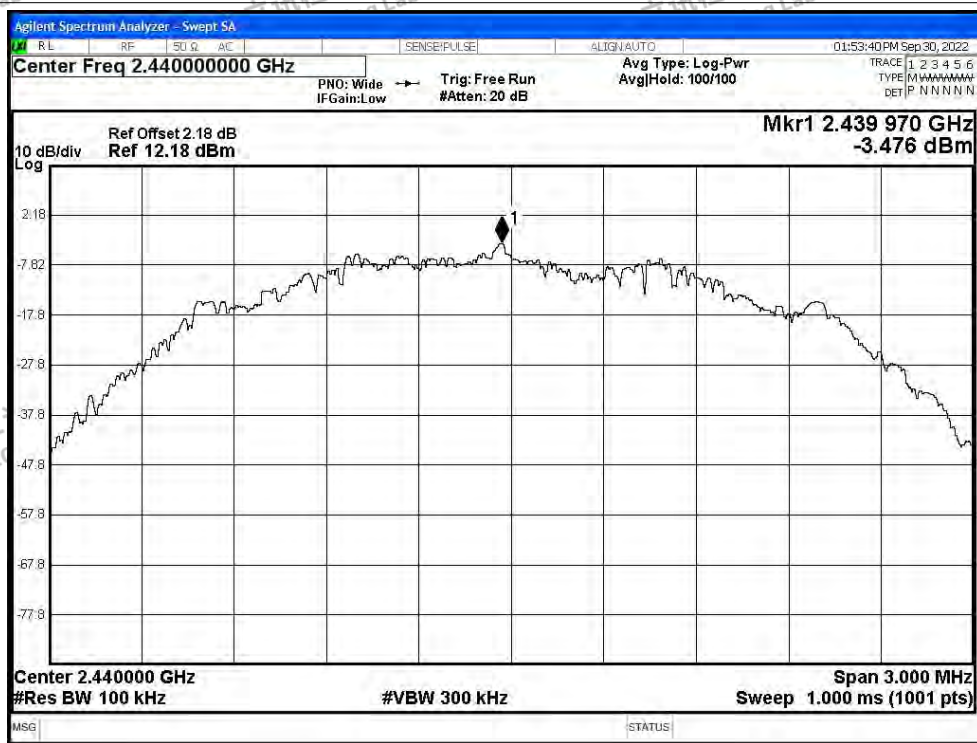


Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission

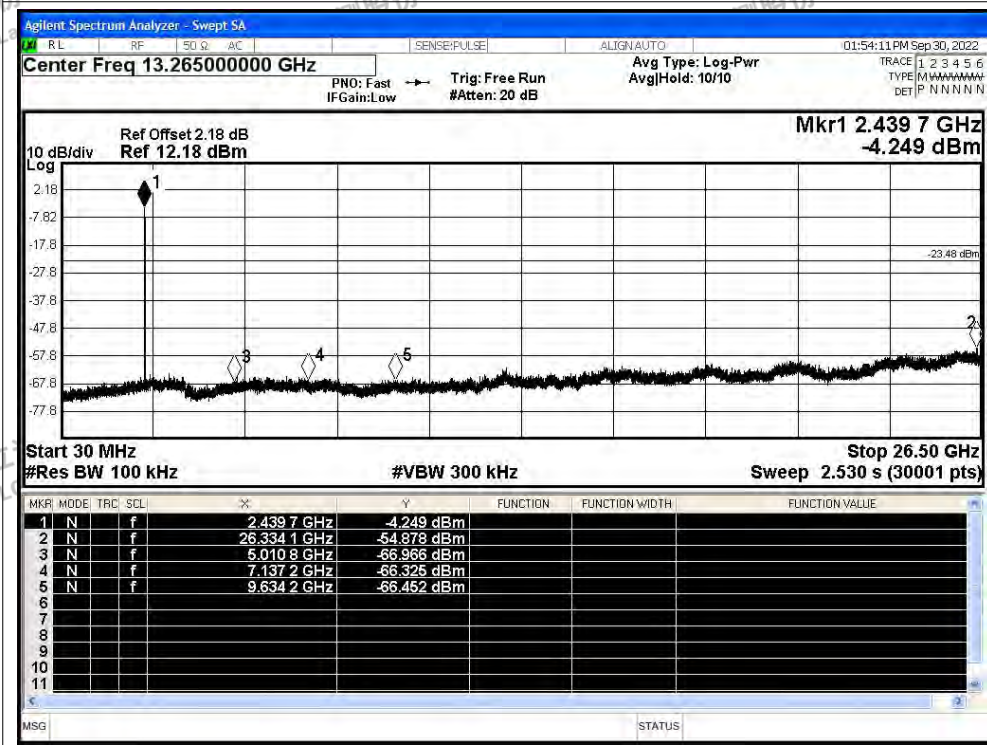




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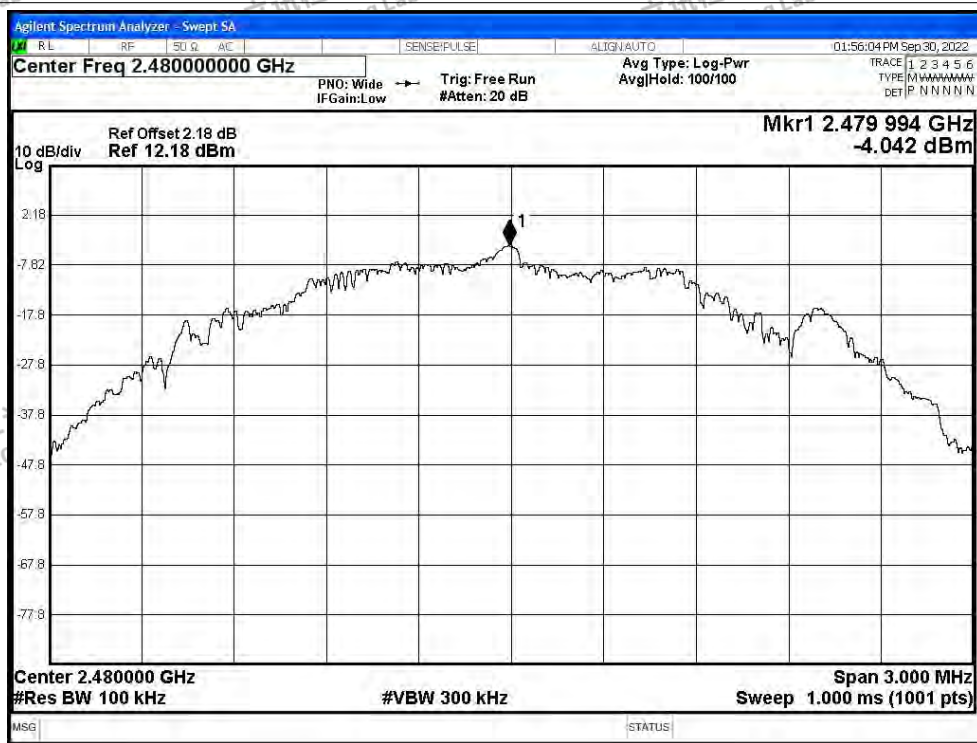


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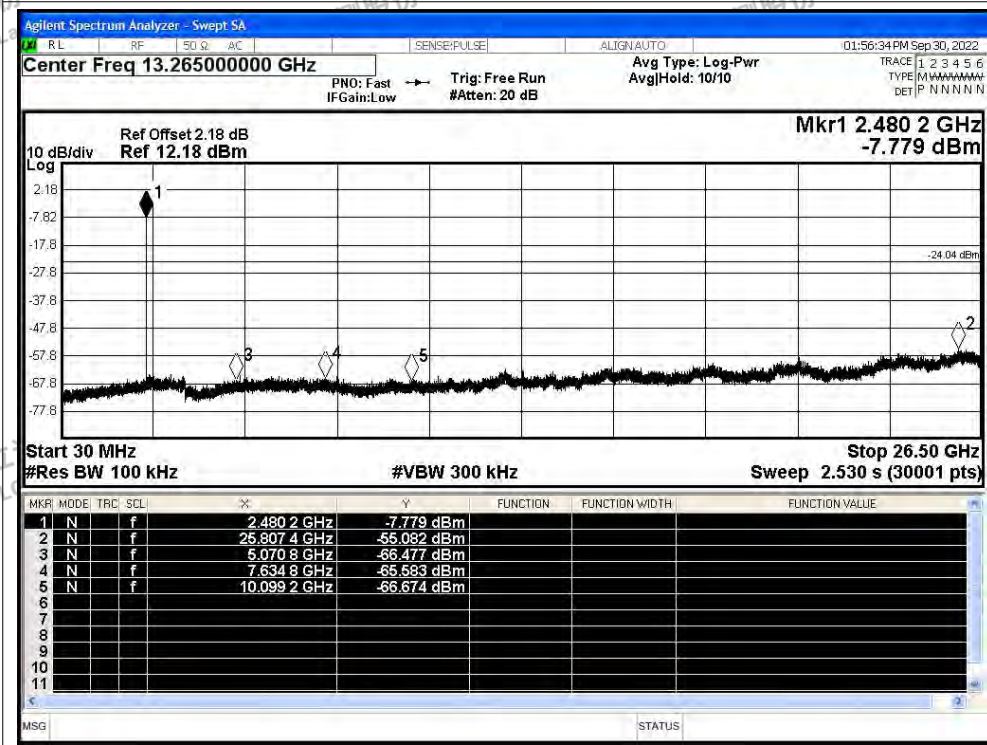




Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Ref



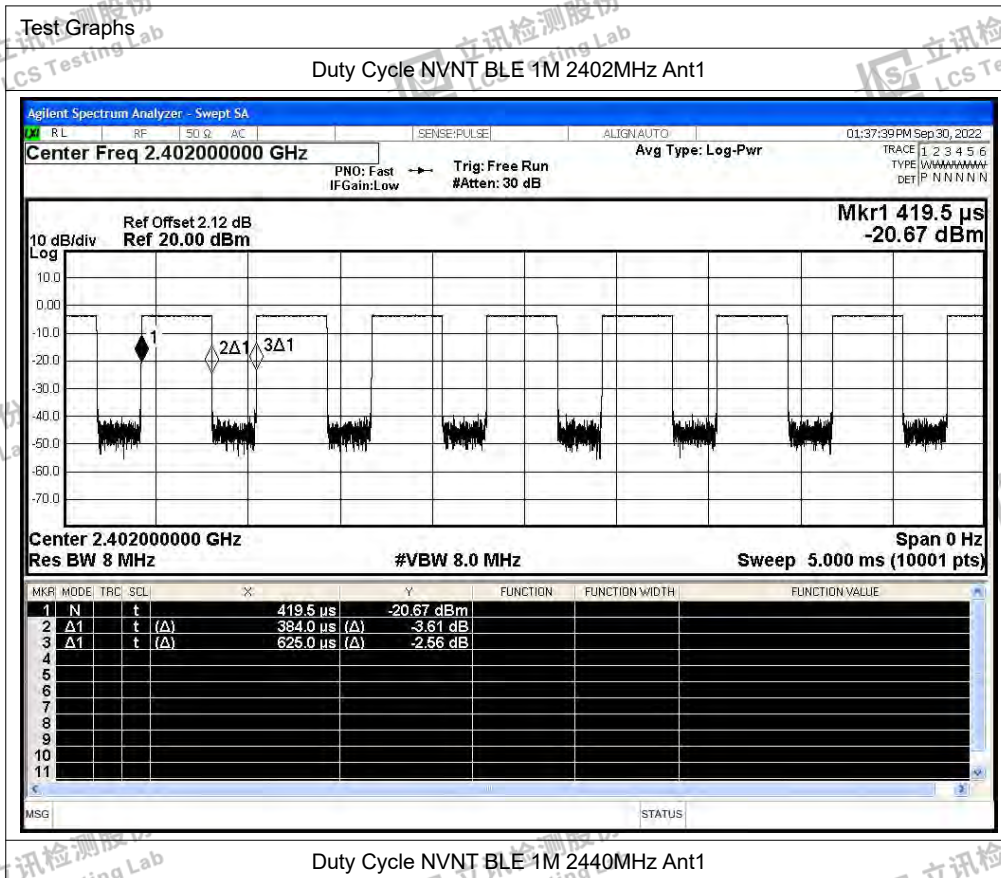
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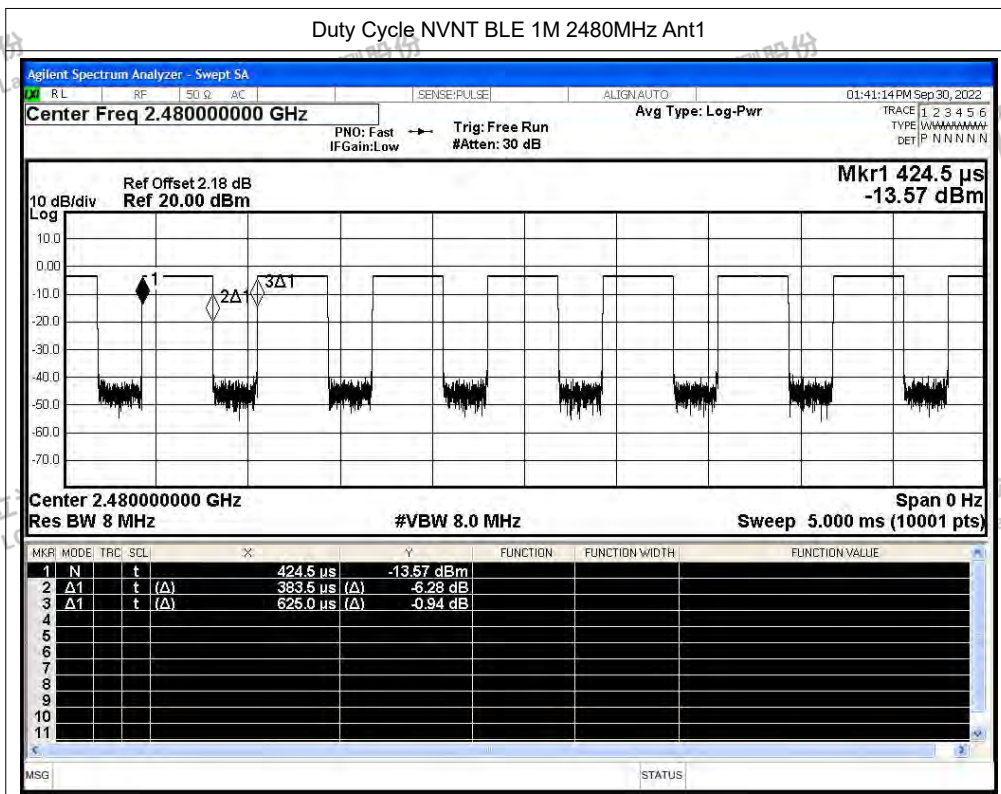
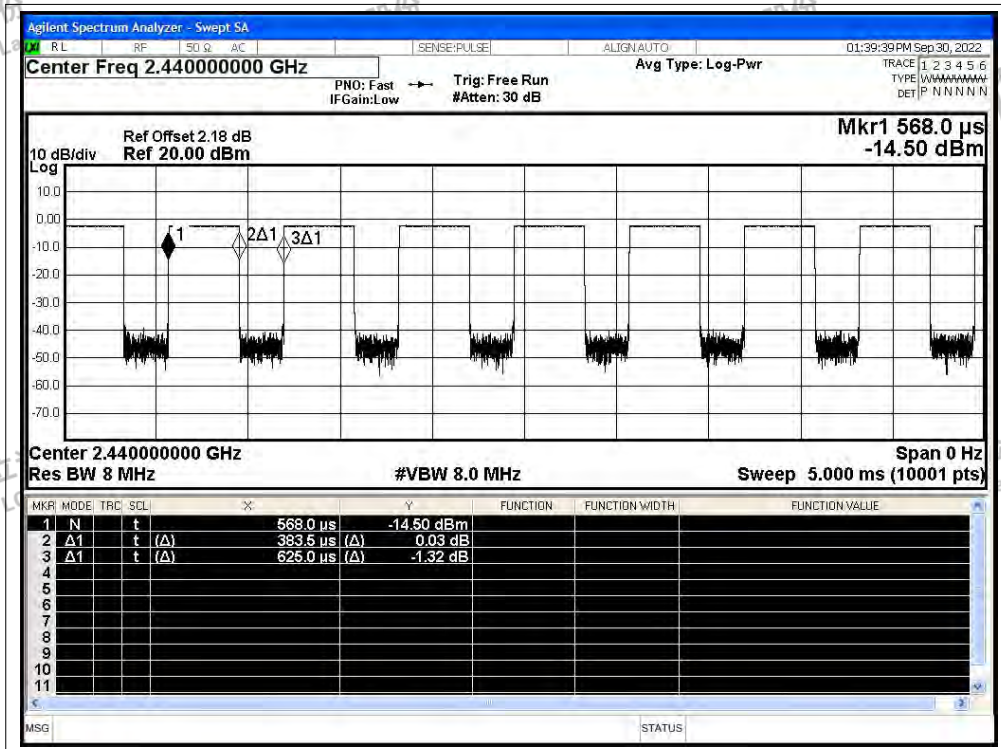




B.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	61.44	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
NVNT	BLE 2M	2402	Ant1	31.92	4.96	5.01
NVNT	BLE 2M	2440	Ant1	32	4.95	5
NVNT	BLE 2M	2480	Ant1	31.92	4.96	5.01

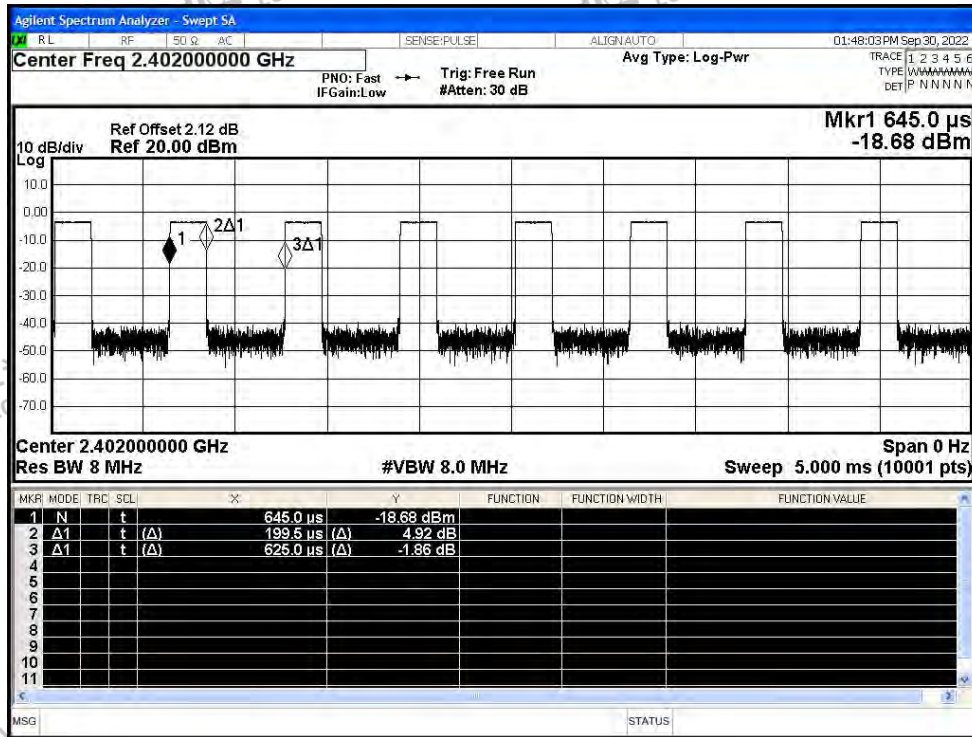




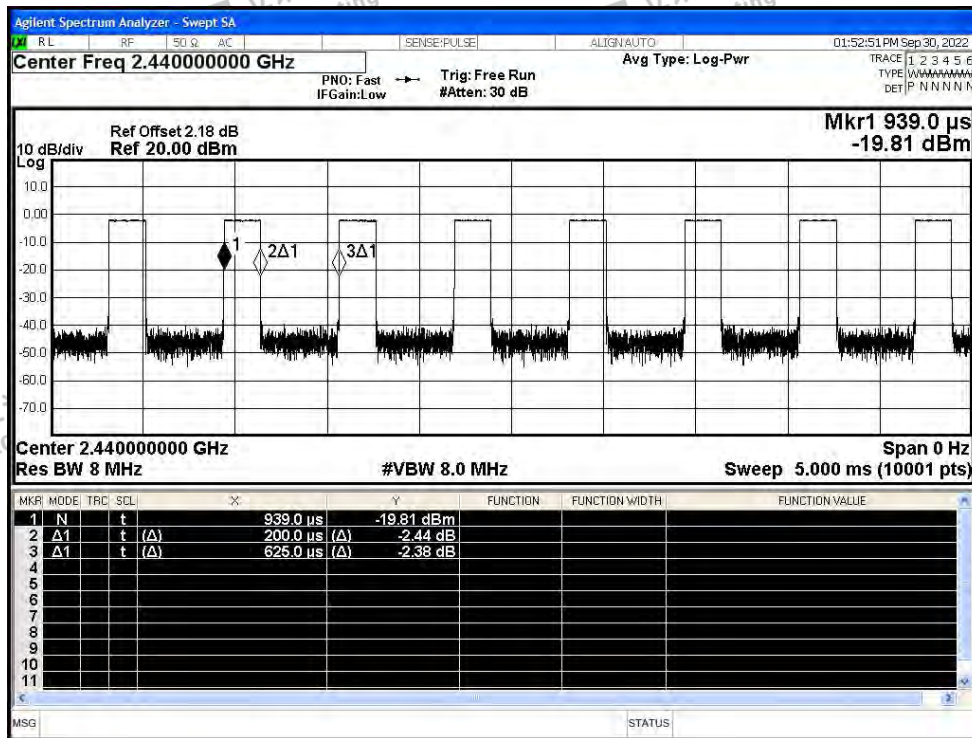


Test Graphs

Duty Cycle NVNT BLE 2M 2402MHz Ant1

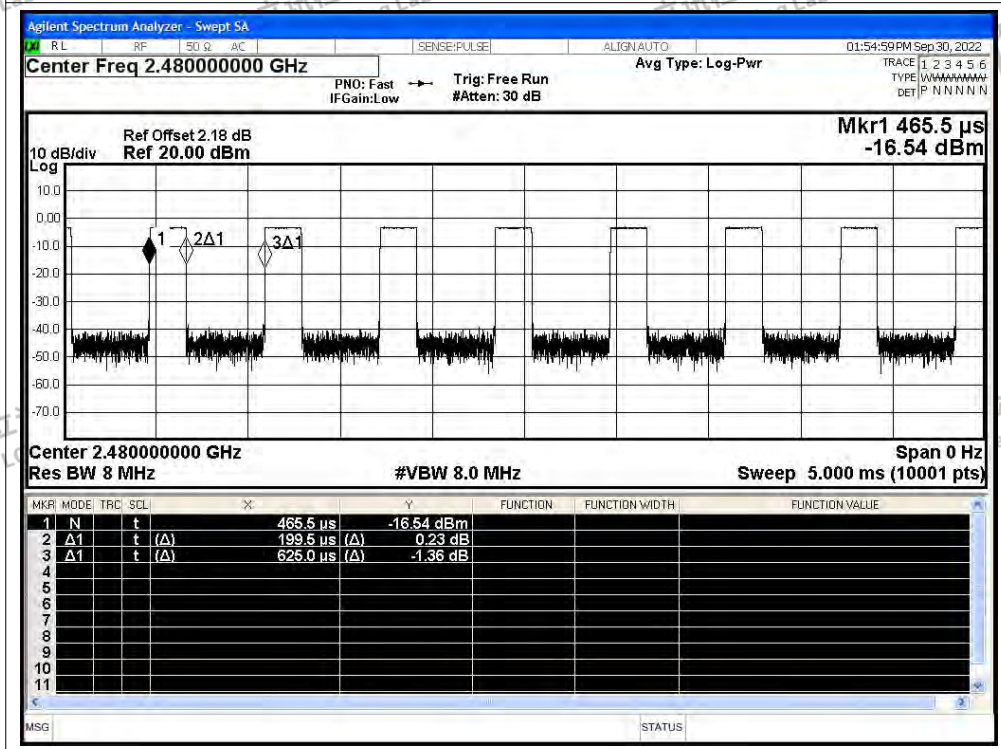


Duty Cycle NVNT BLE 2M 2440MHz Ant1





Duty Cycle NVNT BLE 2M 2480MHz 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	Ant1	2310	-49.66	3.86	49.43	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-59.51	3.86	39.58	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2366.928	-47.38	3.86	51.71	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2388.336	-58.78	3.86	40.31	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-51.24	3.86	47.85	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-59.25	3.86	39.84	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-50.24	3.86	48.85	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-59.05	3.86	40.04	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2484.4	-46.56	3.86	52.53	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2491.912	-58.33	3.86	40.76	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-48.95	3.86	50.14	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-58.8	3.86	40.29	Average	54	Pass
NVNT	BLE 2M	2402	Ant1	2310	-49.26	3.86	49.83	Peak	74	Pass
NVNT	BLE 2M	2402	Ant1	2310	-59.26	3.86	39.83	Average	54	Pass
NVNT	BLE 2M	2402	Ant1	2386.32	-47.38	3.86	51.71	Peak	74	Pass
NVNT	BLE 2M	2402	Ant1	2378.928	-58.29	3.86	40.80	Average	54	Pass
NVNT	BLE 2M	2402	Ant1	2390	-51.03	3.86	48.06	Peak	74	Pass
NVNT	BLE 2M	2402	Ant1	2390	-58.84	3.86	40.25	Average	54	Pass
NVNT	BLE 2M	2480	Ant1	2483.5	-49.83	3.86	49.26	Peak	74	Pass
NVNT	BLE 2M	2480	Ant1	2483.5	-56.94	3.86	42.15	Average	54	Pass
NVNT	BLE 2M	2480	Ant1	2486.584	-46.6	3.86	52.49	Peak	74	Pass
NVNT	BLE 2M	2480	Ant1	2483.536	-56.87	3.86	42.22	Average	54	Pass
NVNT	BLE 2M	2480	Ant1	2500	-47.76	3.86	51.33	Peak	74	Pass
NVNT	BLE 2M	2480	Ant1	2500	-58.73	3.86	40.36	Average	54	Pass

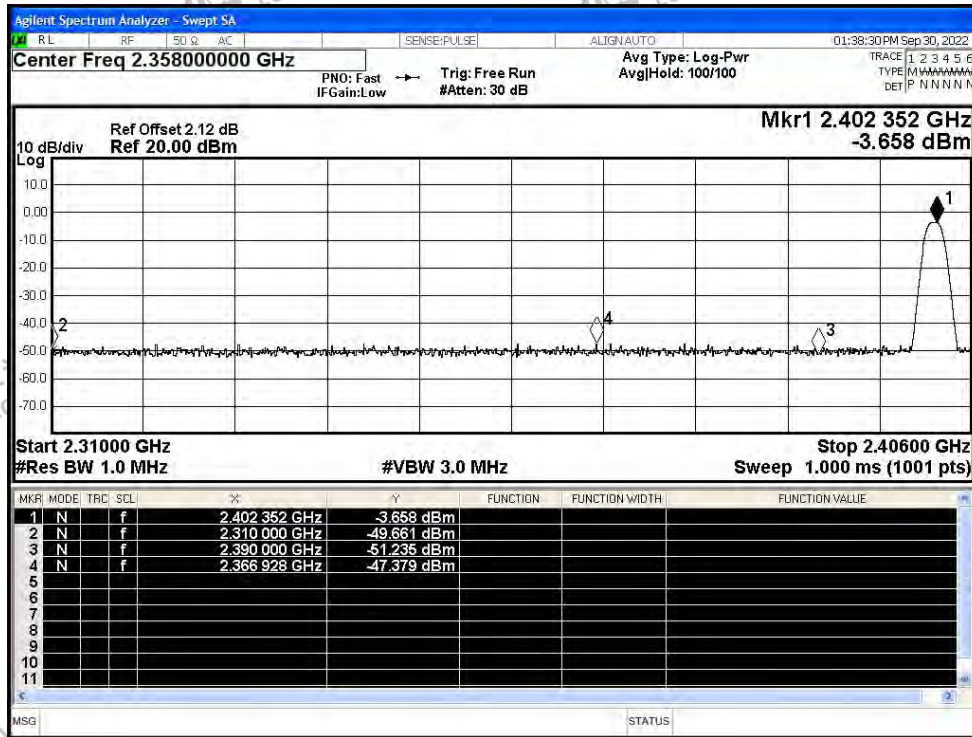


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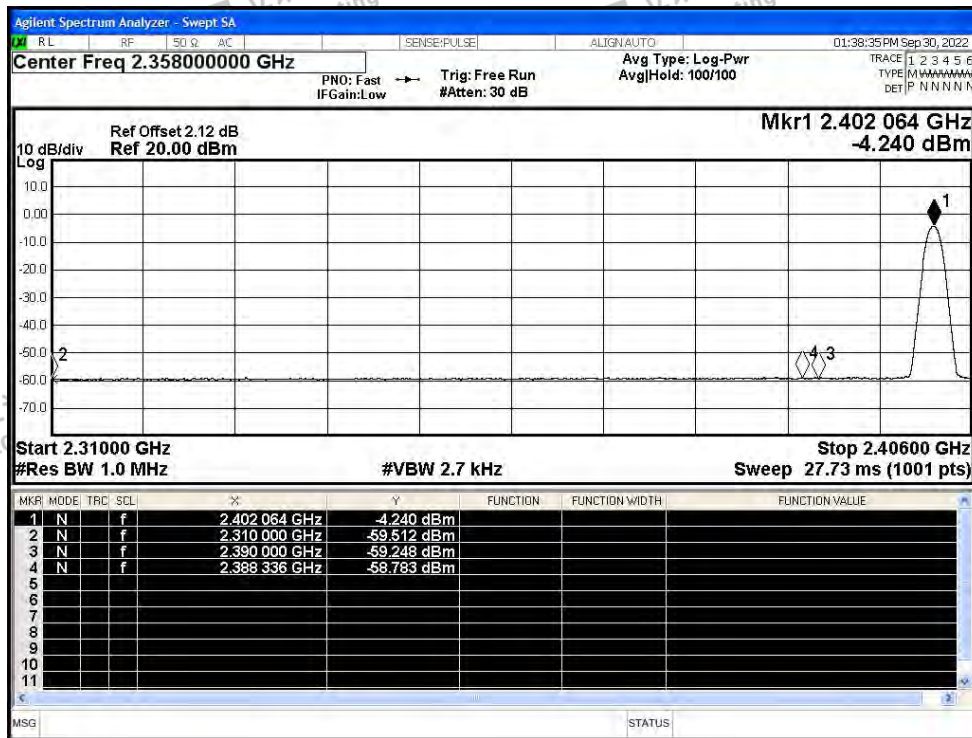


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak

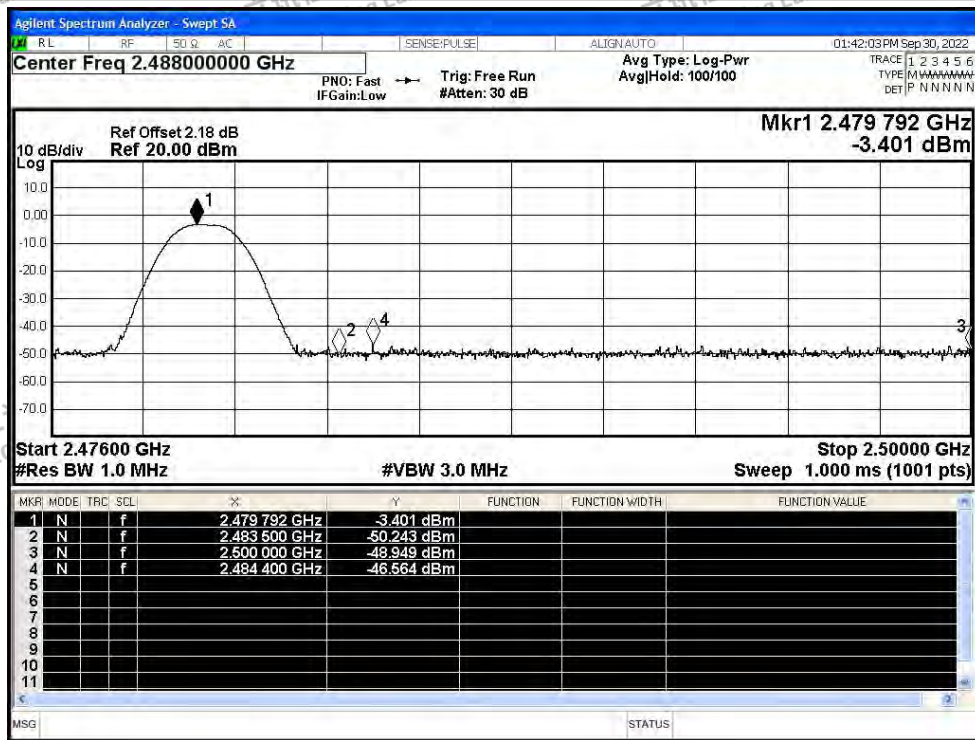


Restrict Band NVNT BLE 1M 2402MHz Ant1 Average

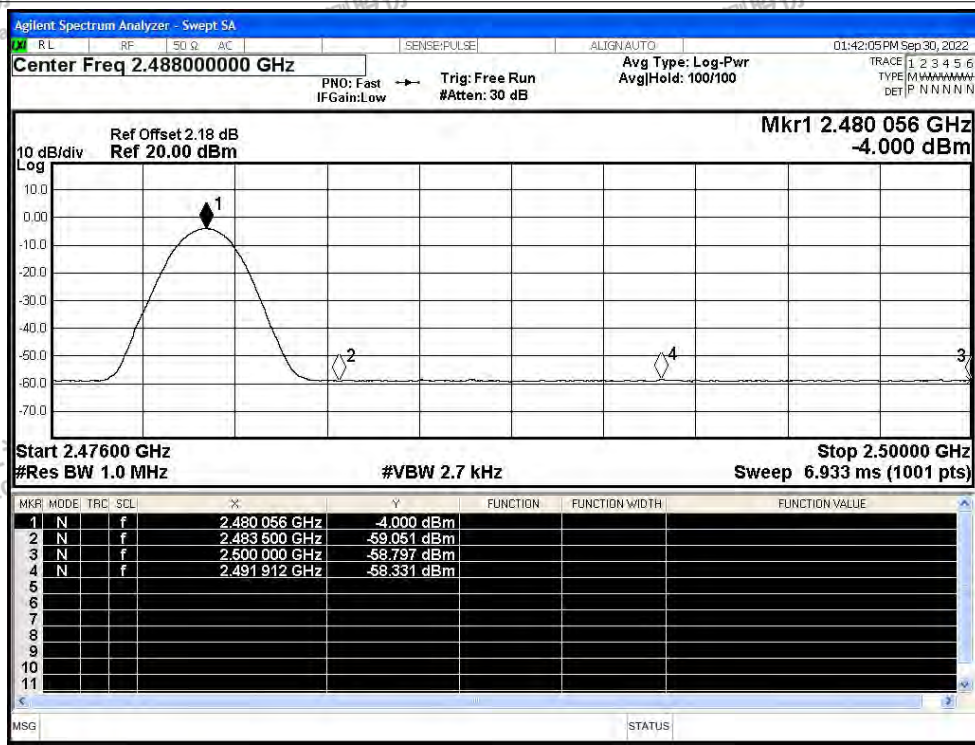




Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



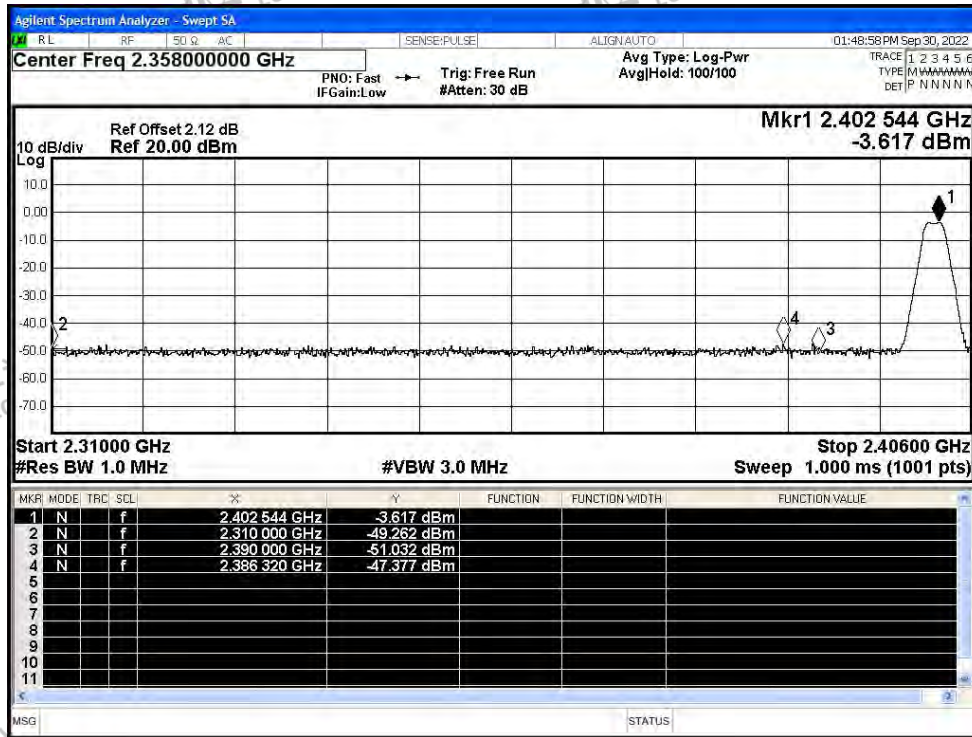
Restrict Band NVNT BLE 1M 2480MHz Ant1 Average



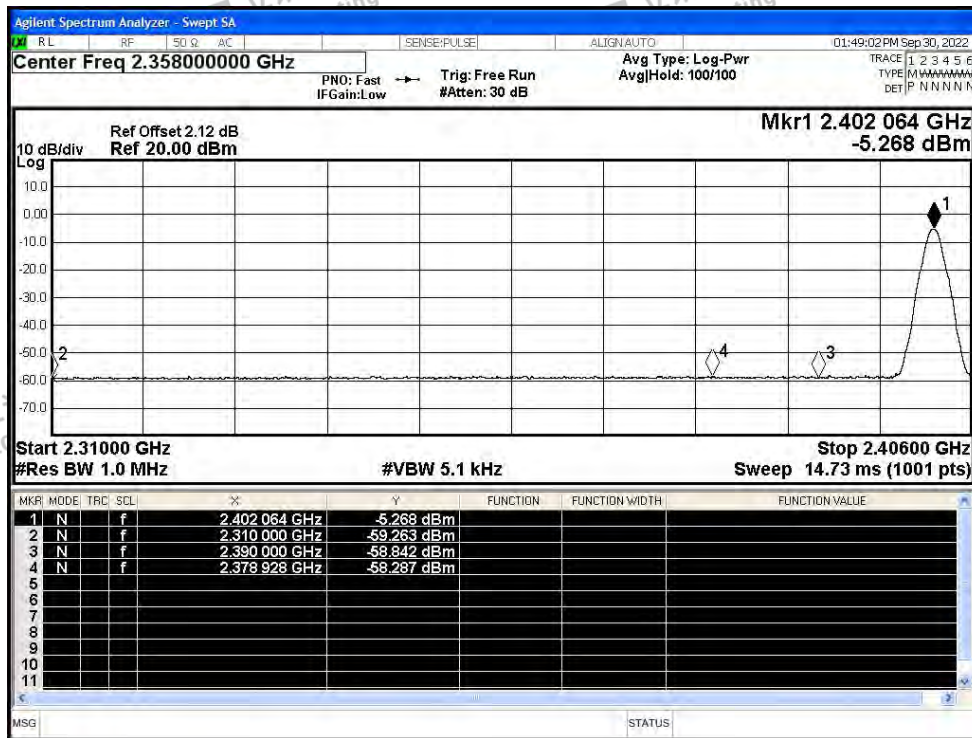


Test Graphs

Restrict Band NVNT BLE 2M 2402MHz Ant1 Peak

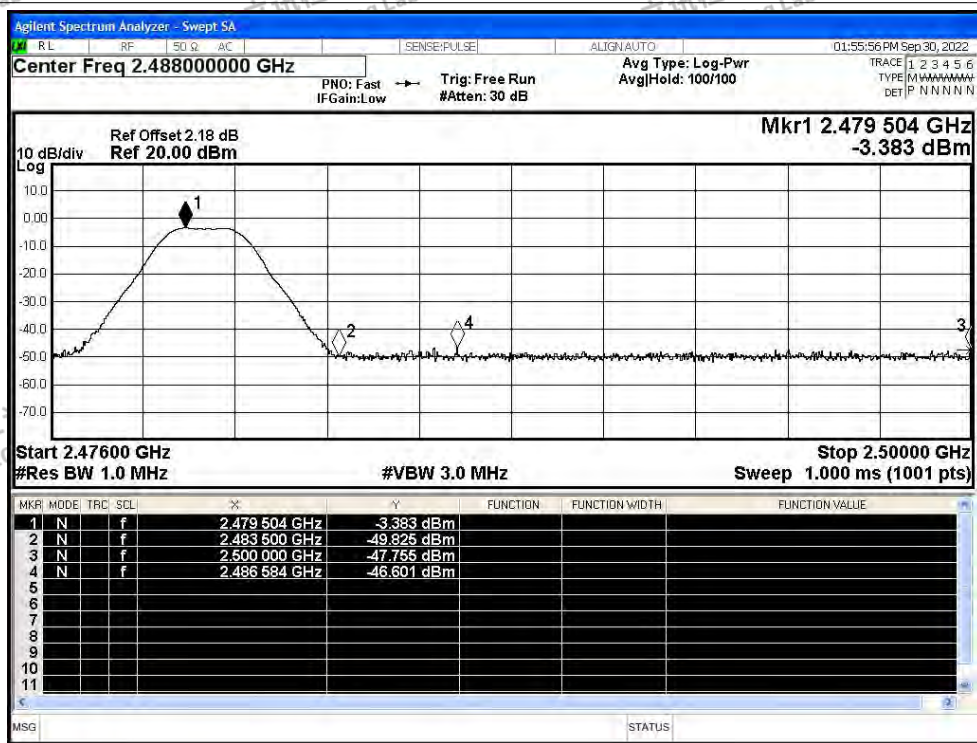


Restrict Band NVNT BLE 2M 2402MHz Ant1 Average





Restrict Band NVNT BLE 2M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 2M 2480MHz Ant1 Average

