



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Urbanista Atlanta

Test Model: Urbanista Atlanta Scarlet Red

Environmental Conditions

Temperature:	23.1° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Nick Peng
Supervised by:	Li Huan



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A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.974	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.972	N/A	Pass
NVNT	1-DH5	2480	Ant1	1.018	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.335	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.273	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.266	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.34	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.294	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.288	N/A	Pass





Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

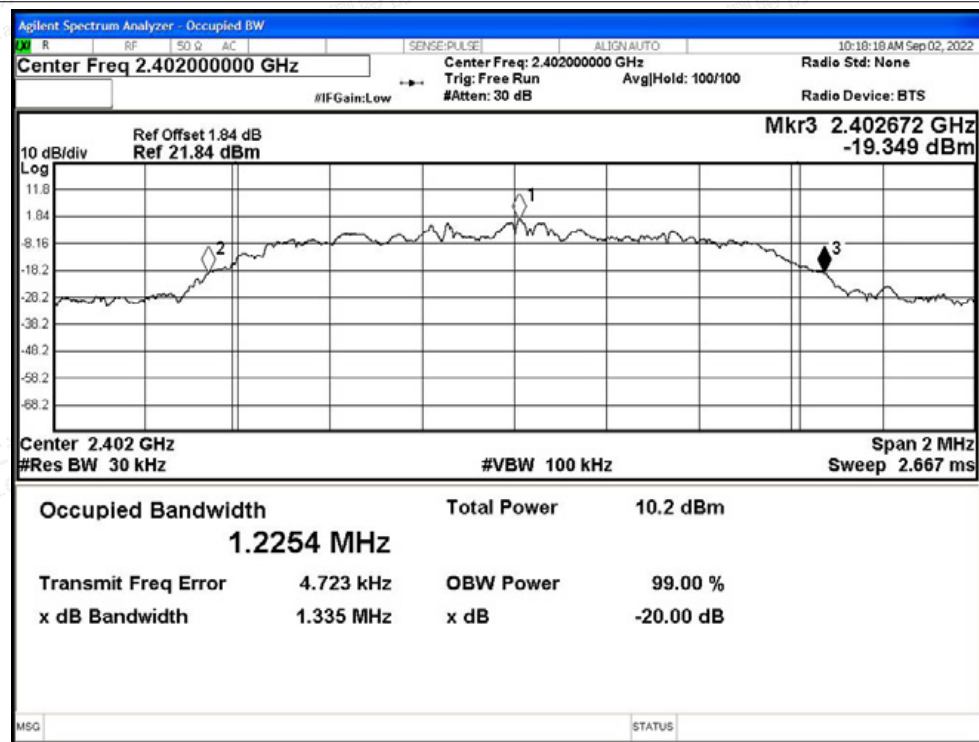




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

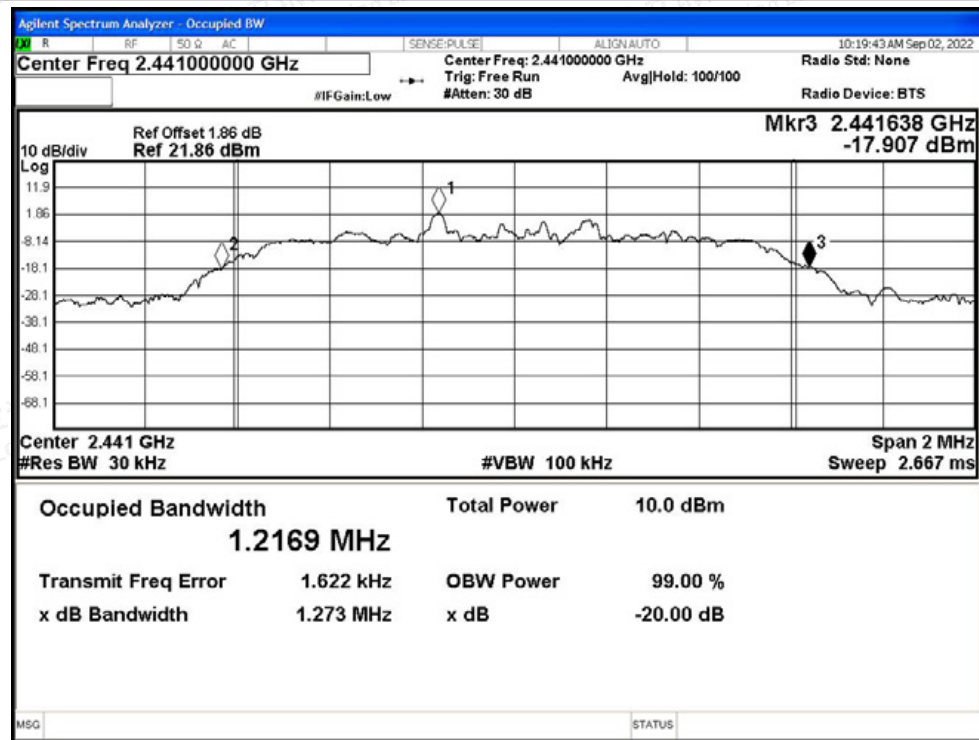


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

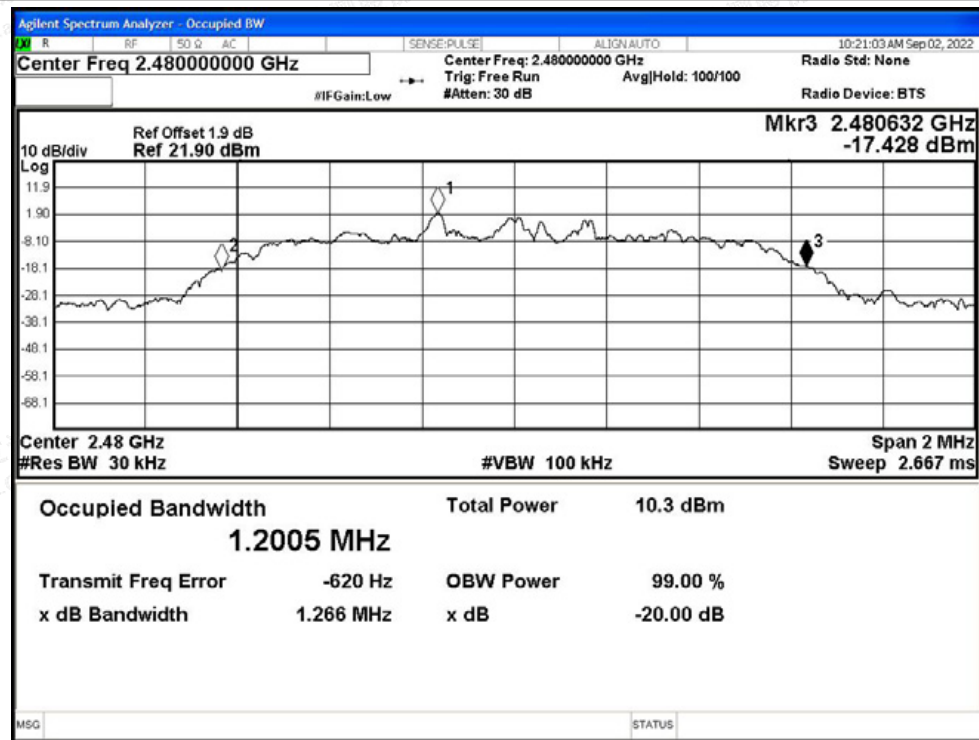




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

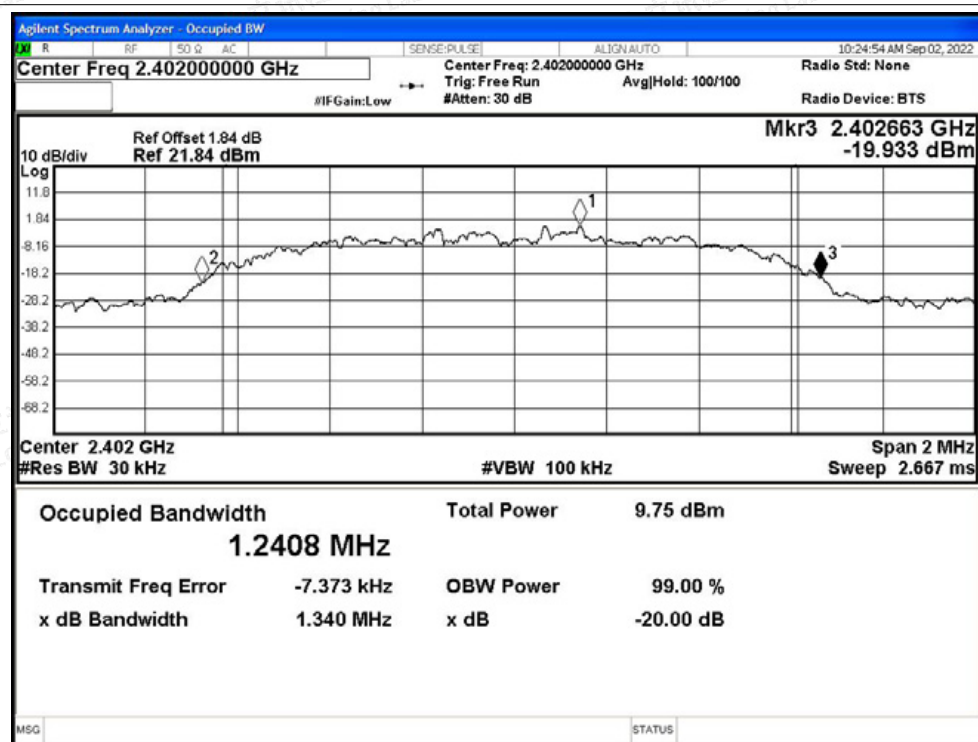


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

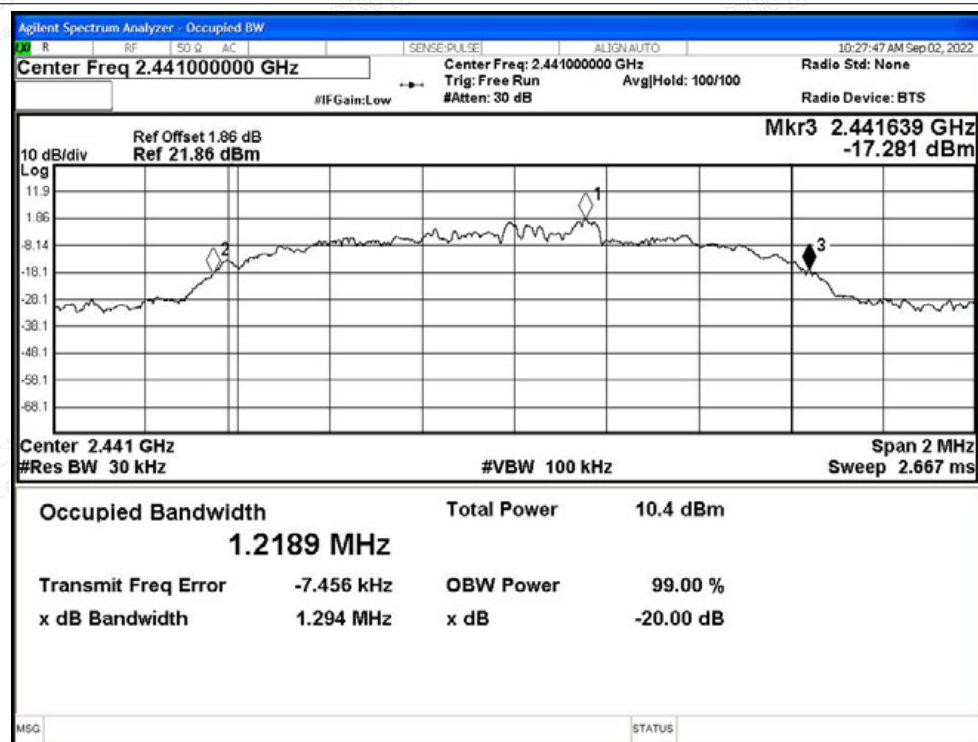


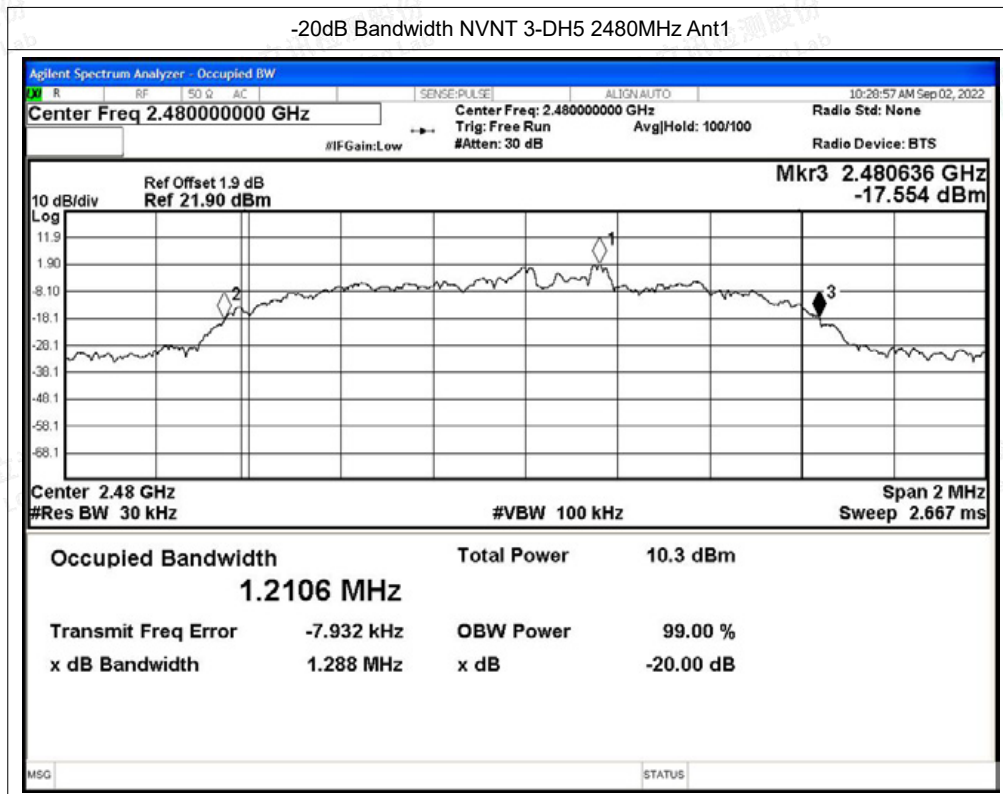


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1







A.2 Occupied Channel Bandwidth

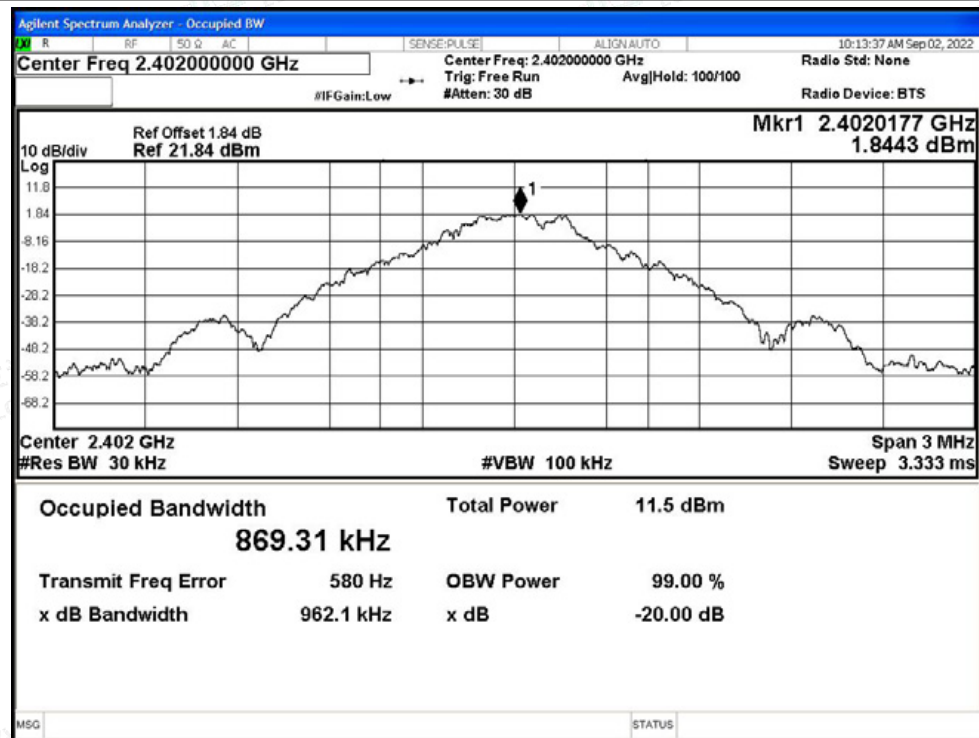
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH5	2402	Ant1	0.869
NVNT	1-DH5	2441	Ant1	0.89
NVNT	1-DH5	2480	Ant1	0.887
NVNT	2-DH5	2402	Ant1	1.29
NVNT	2-DH5	2441	Ant1	1.266
NVNT	2-DH5	2480	Ant1	1.246
NVNT	3-DH5	2402	Ant1	1.286
NVNT	3-DH5	2441	Ant1	1.259
NVNT	3-DH5	2480	Ant1	1.243



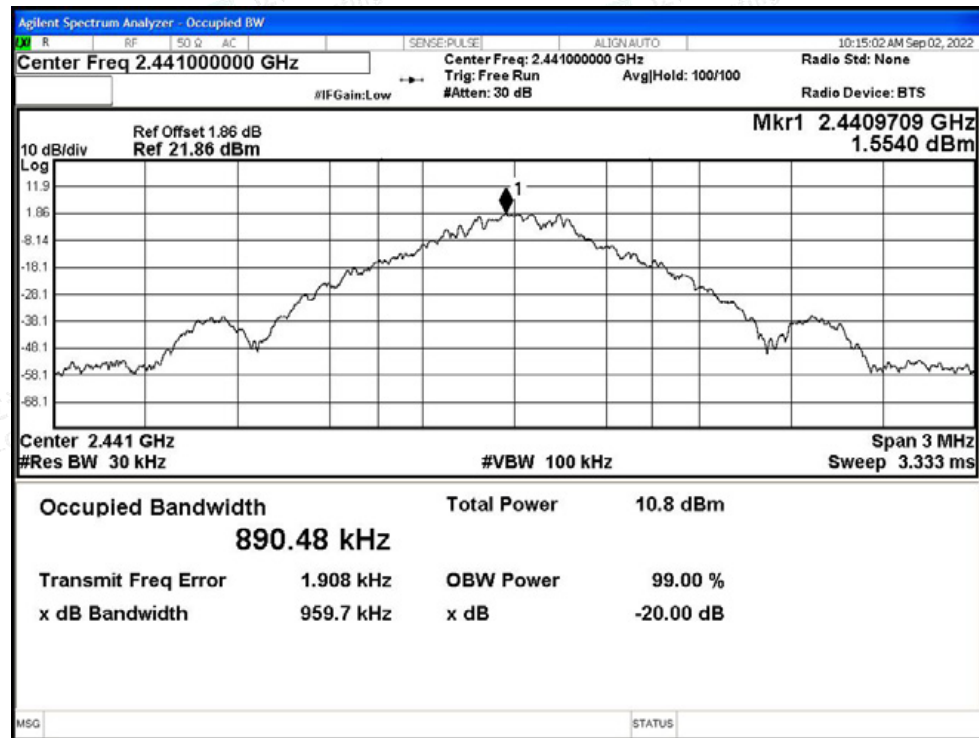


Test Graphs

OBW NVNT 1-DH5 2402MHz Ant1

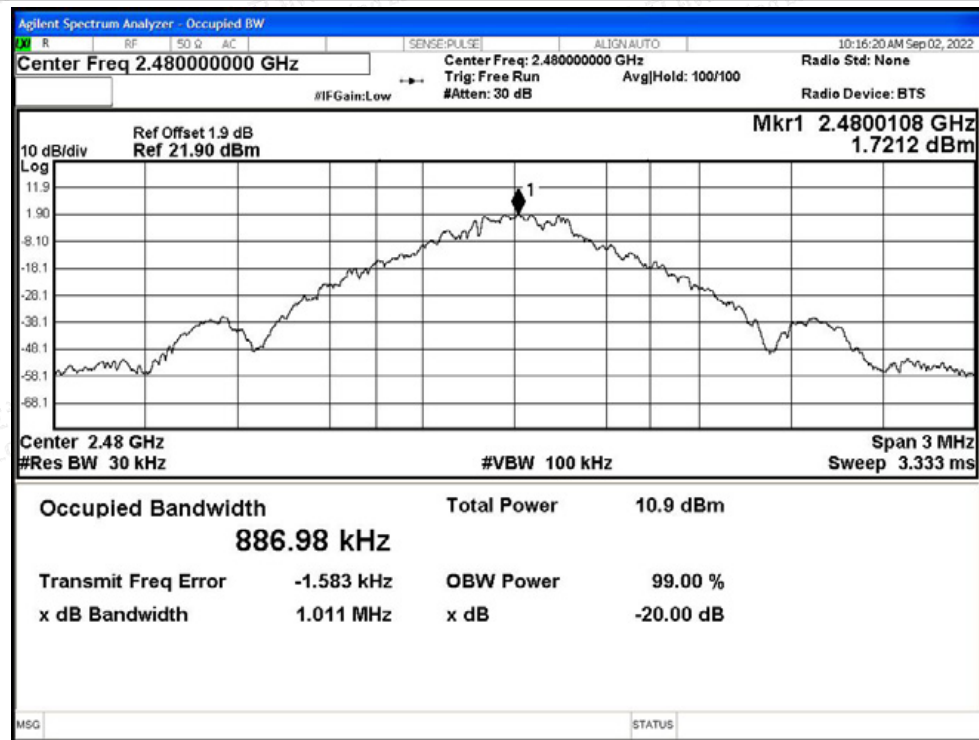


OBW NVNT 1-DH5 2441MHz Ant1

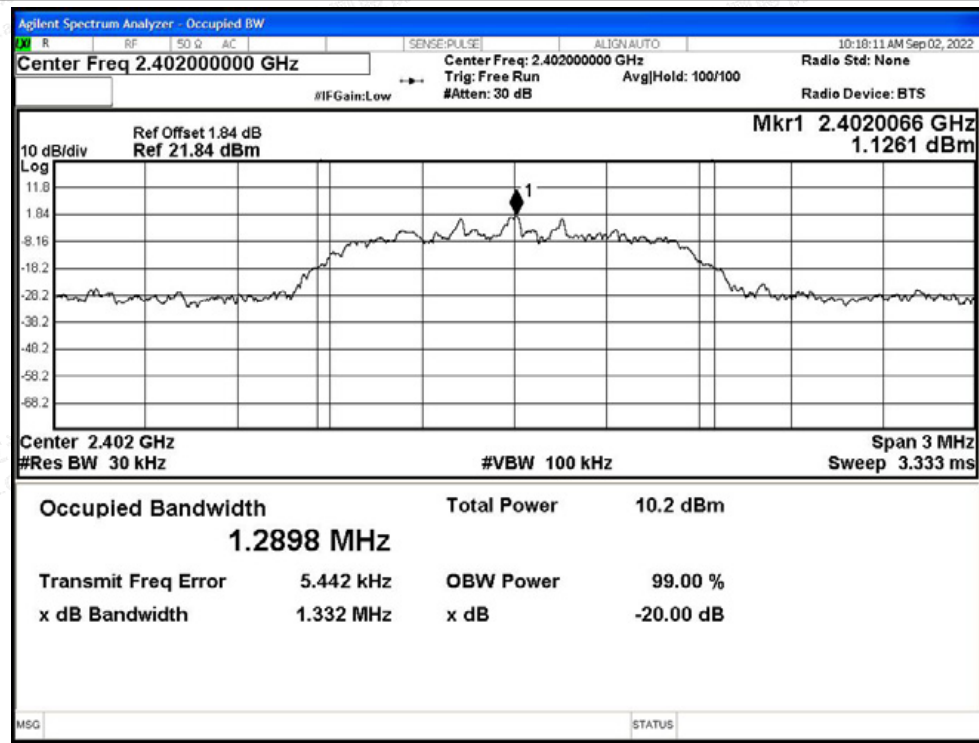




OBW NVNT 1-DH5 2480MHz Ant1

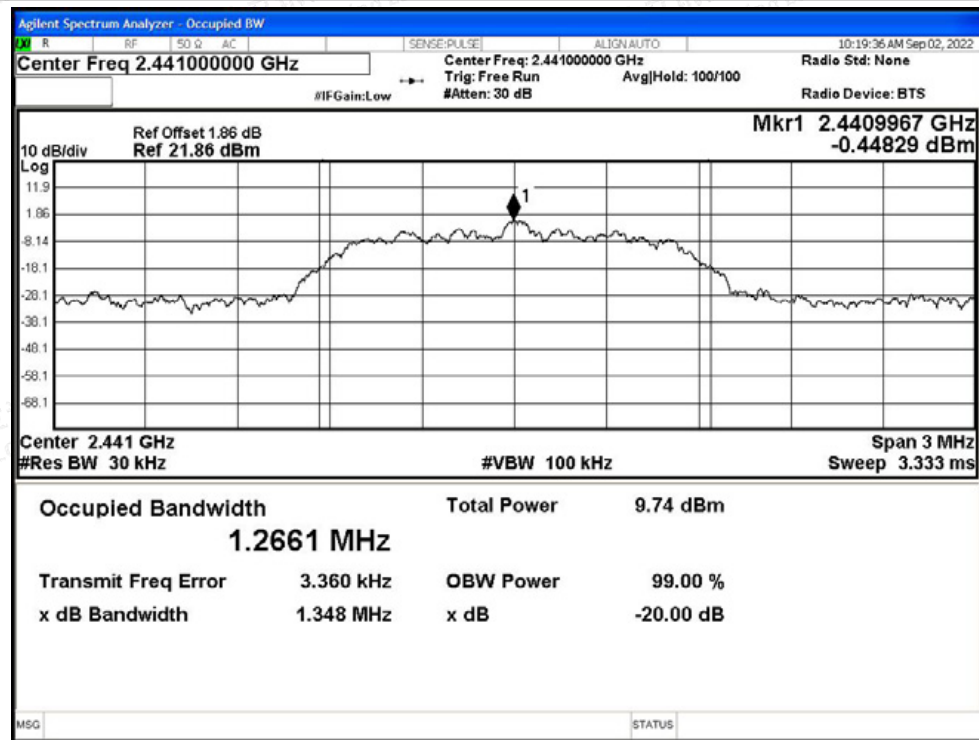


OBW NVNT 2-DH5 2402MHz Ant1

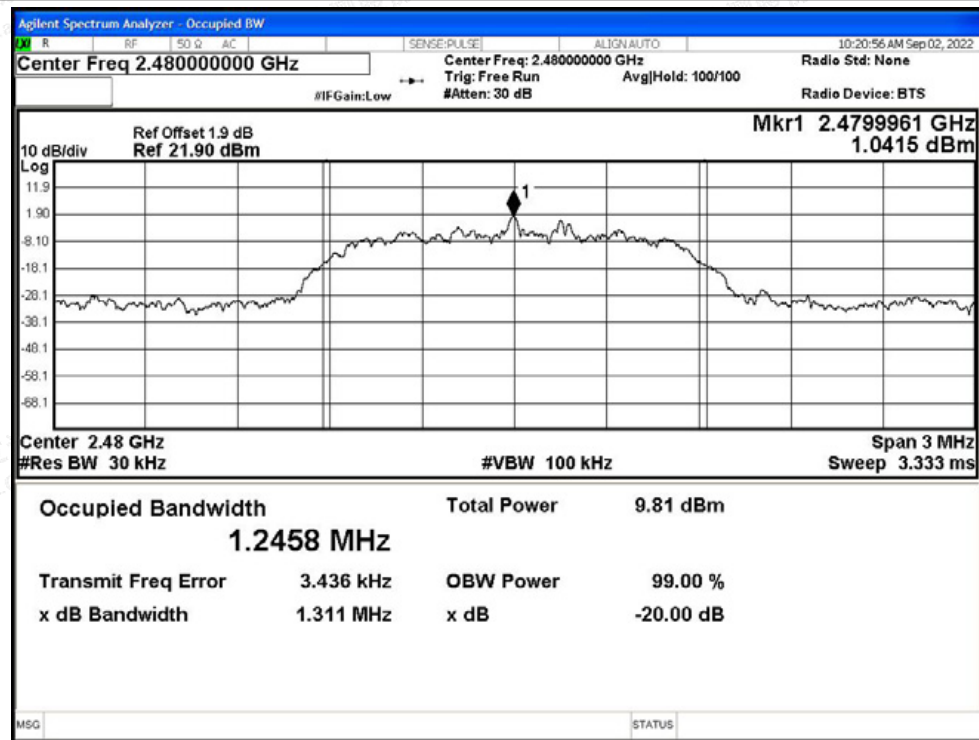




OBW NVNT 2-DH5 2441MHz Ant1

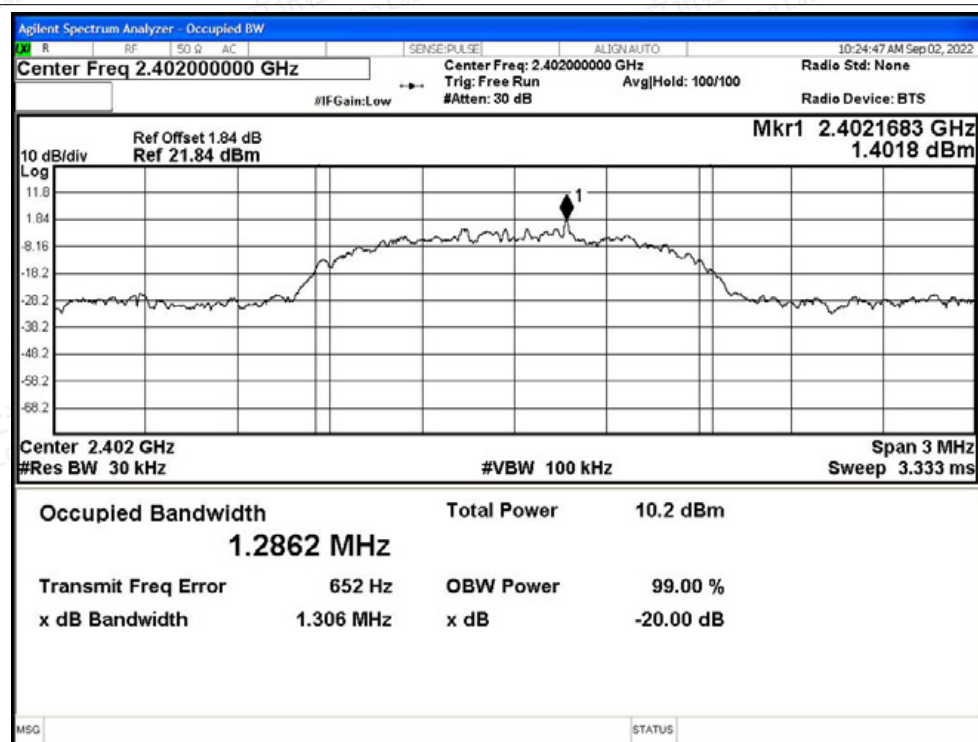


OBW NVNT 2-DH5 2480MHz Ant1

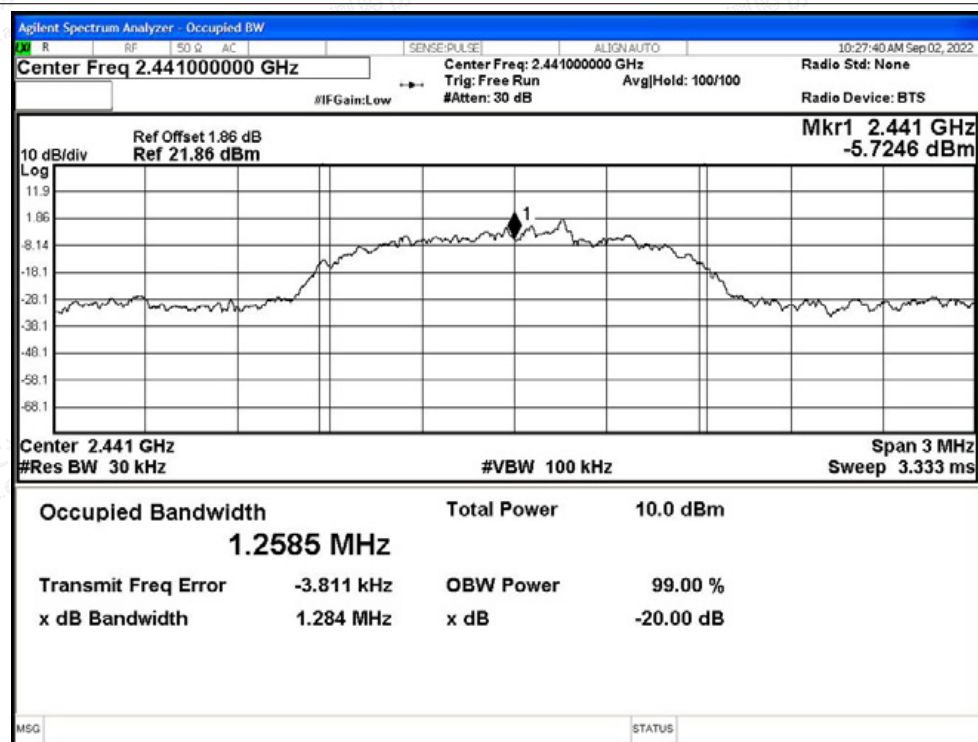




OBW NVNT 3-DH5 2402MHz Ant1

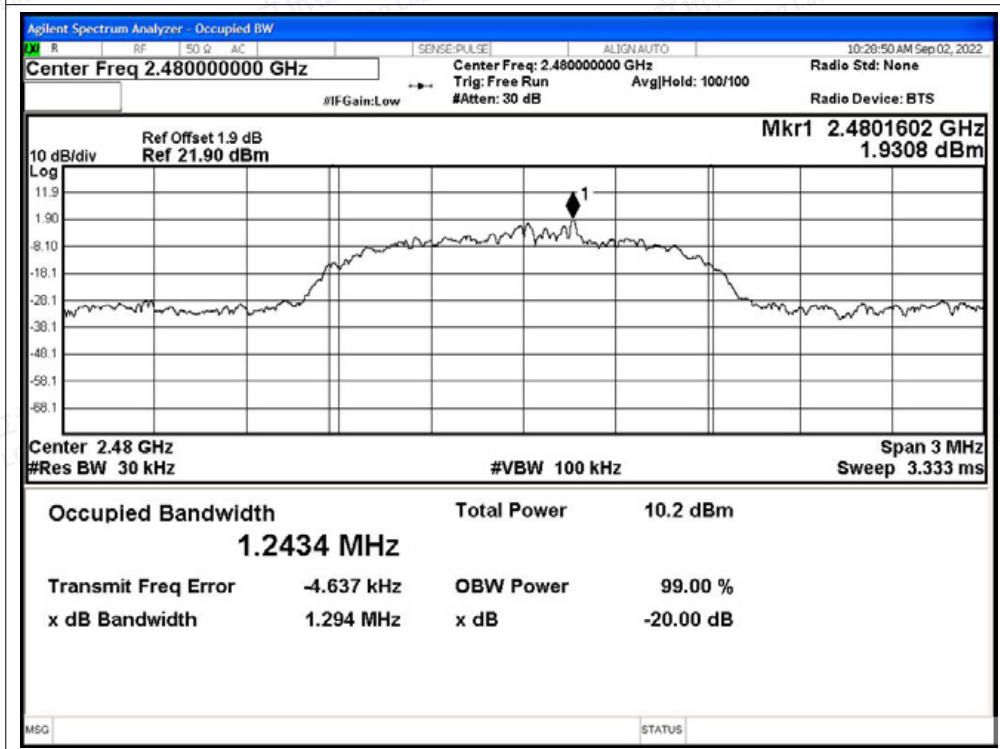


OBW NVNT 3-DH5 2441MHz Ant1





OBW NVNT 3-DH5 2480MHz Ant1





A.3 Maximum Conducted Output Power

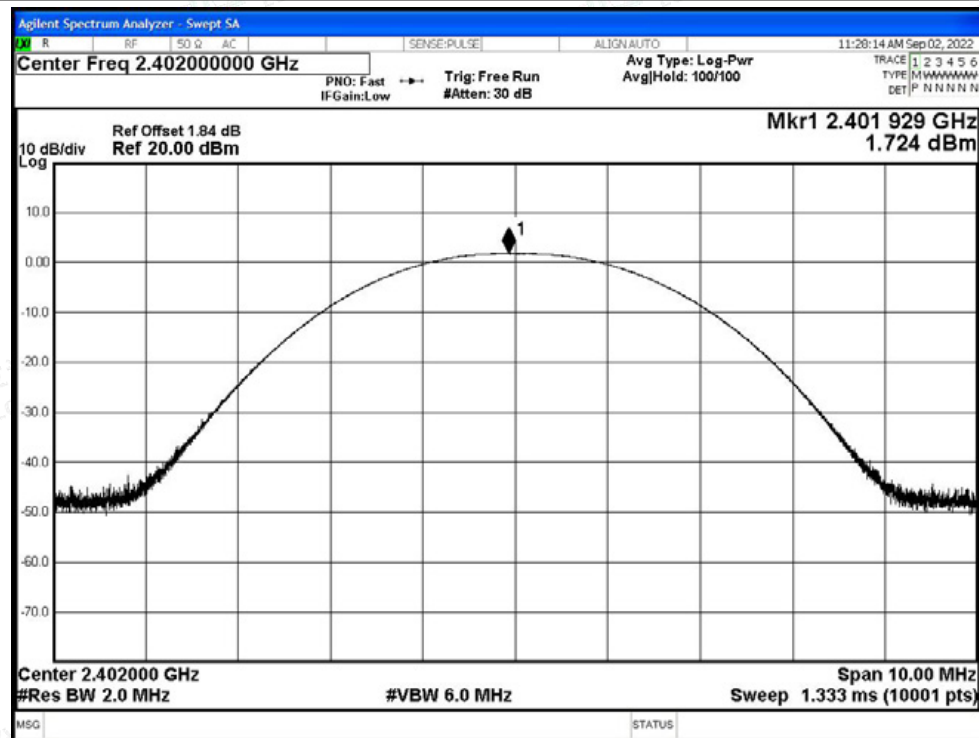
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	1.72	0	1.72	21	Pass
NVNT	1-DH5	2441	Ant1	1.2	0	1.2	21	Pass
NVNT	1-DH5	2480	Ant1	0.61	0	0.61	21	Pass
NVNT	2-DH5	2402	Ant1	1.72	0	1.72	21	Pass
NVNT	2-DH5	2441	Ant1	1.2	0	1.2	21	Pass
NVNT	2-DH5	2480	Ant1	0.57	0	0.57	21	Pass
NVNT	3-DH5	2402	Ant1	1.75	0	1.75	21	Pass
NVNT	3-DH5	2441	Ant1	1.23	0	1.23	21	Pass
NVNT	3-DH5	2480	Ant1	0.65	0	0.65	21	Pass



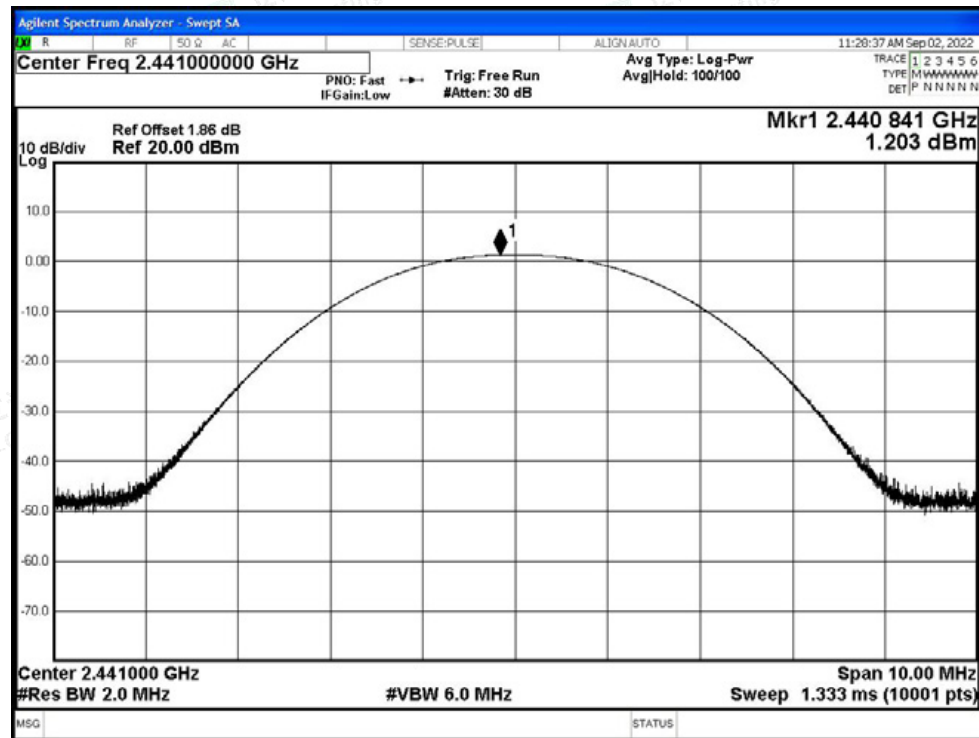


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

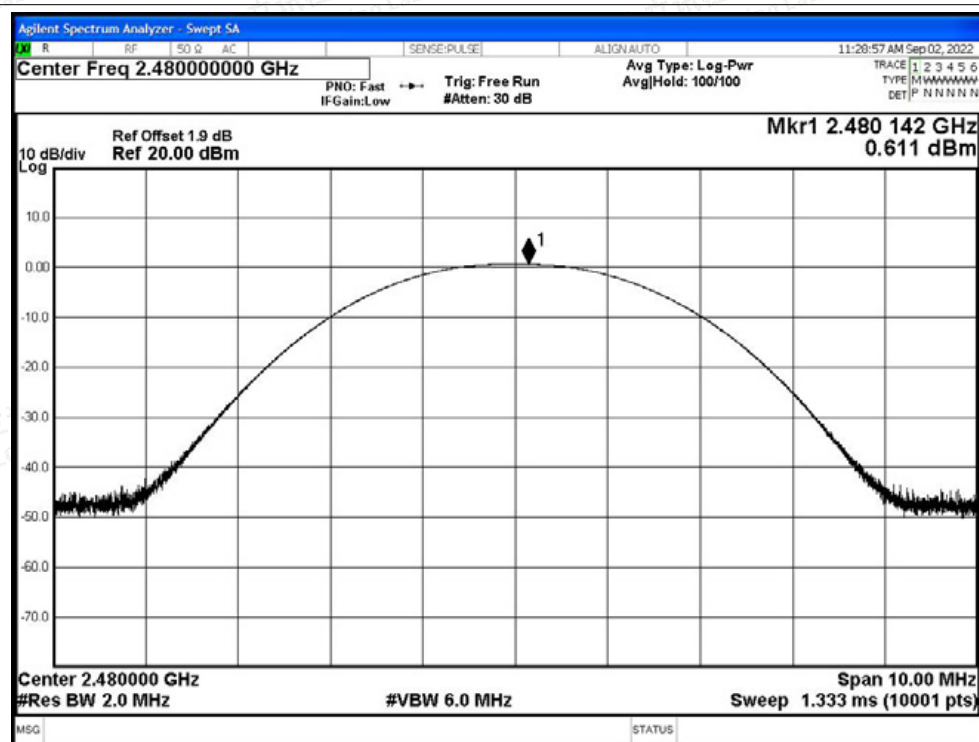


Power NVNT 1-DH5 2441MHz Ant1

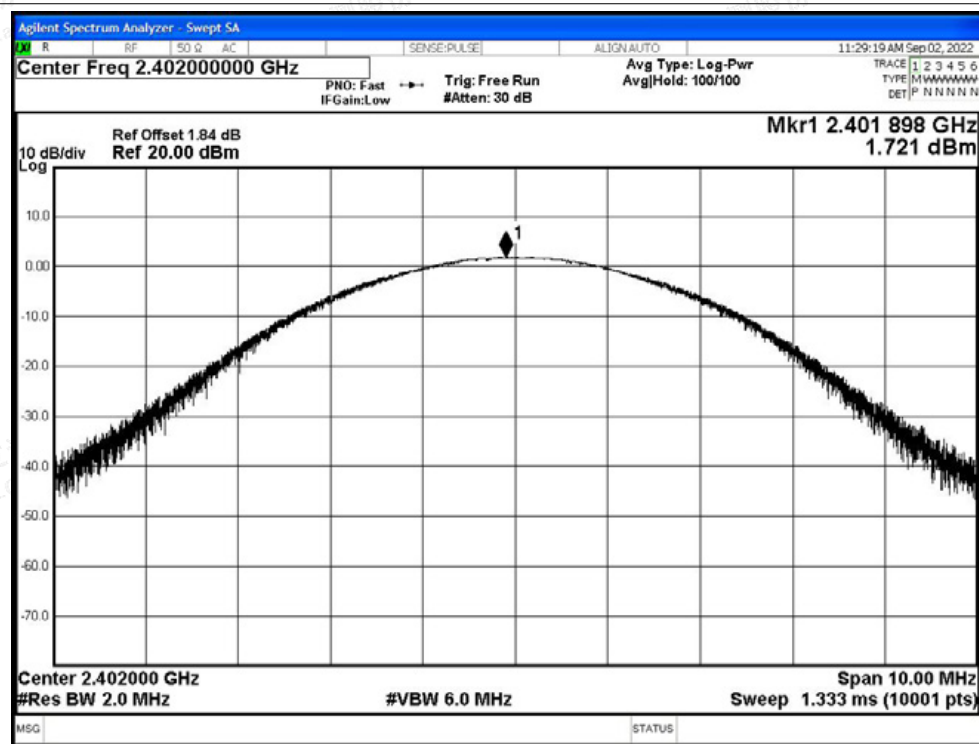




Power NVNT 1-DH5 2480MHz Ant1

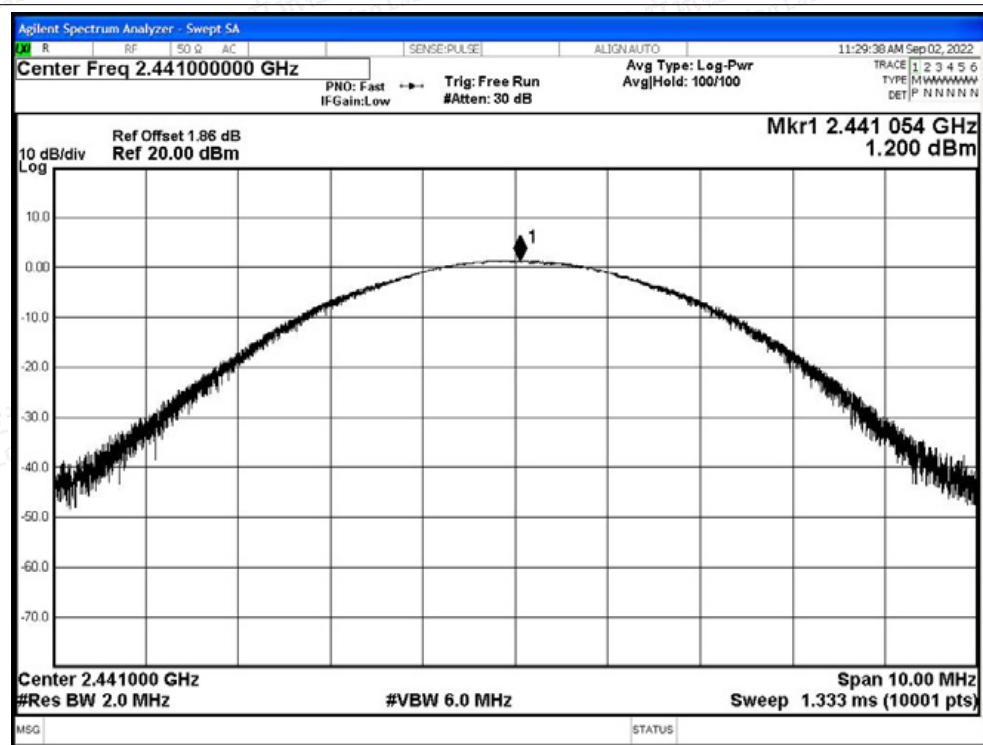


Power NVNT 2-DH5 2402MHz Ant1

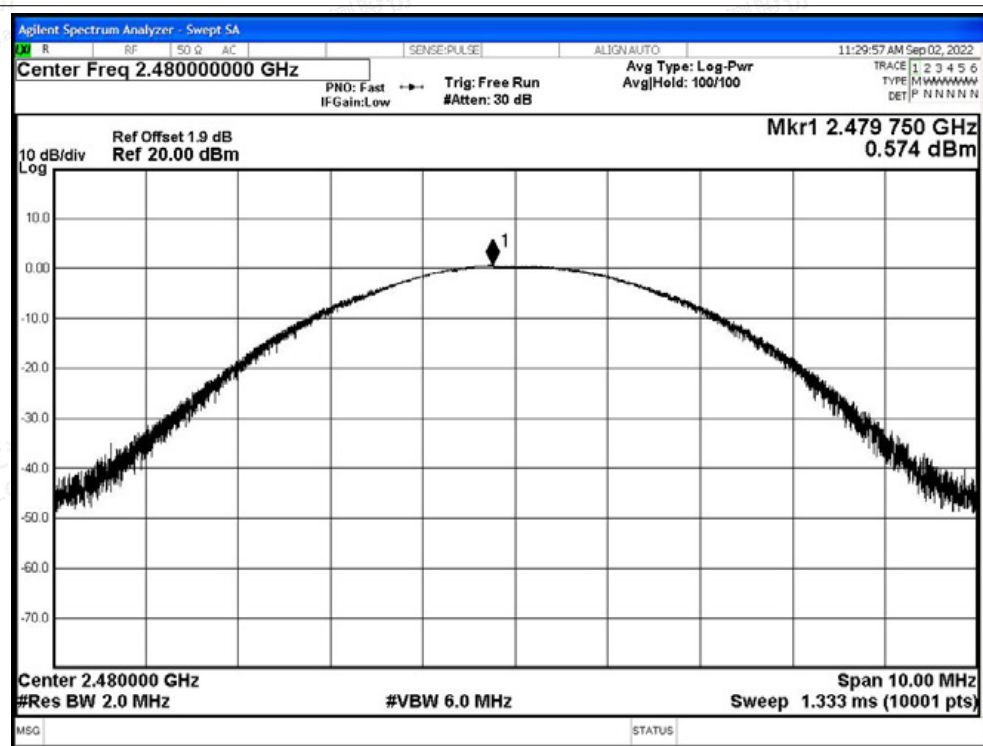




Power NVNT 2-DH5 2441MHz Ant1

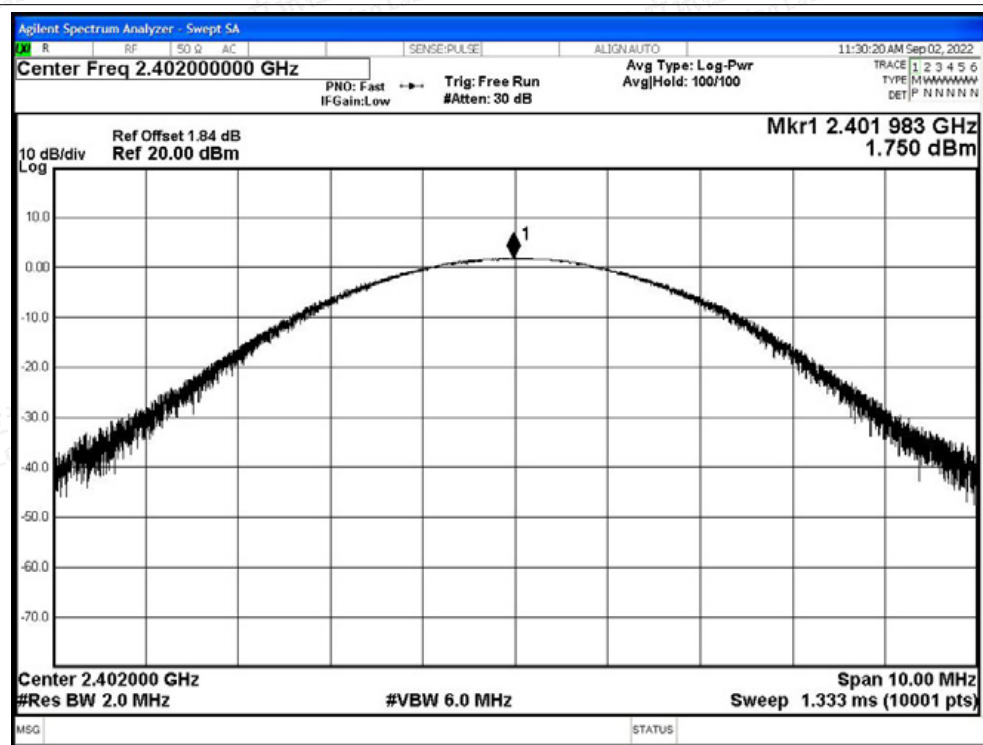


Power NVNT 2-DH5 2480MHz Ant1

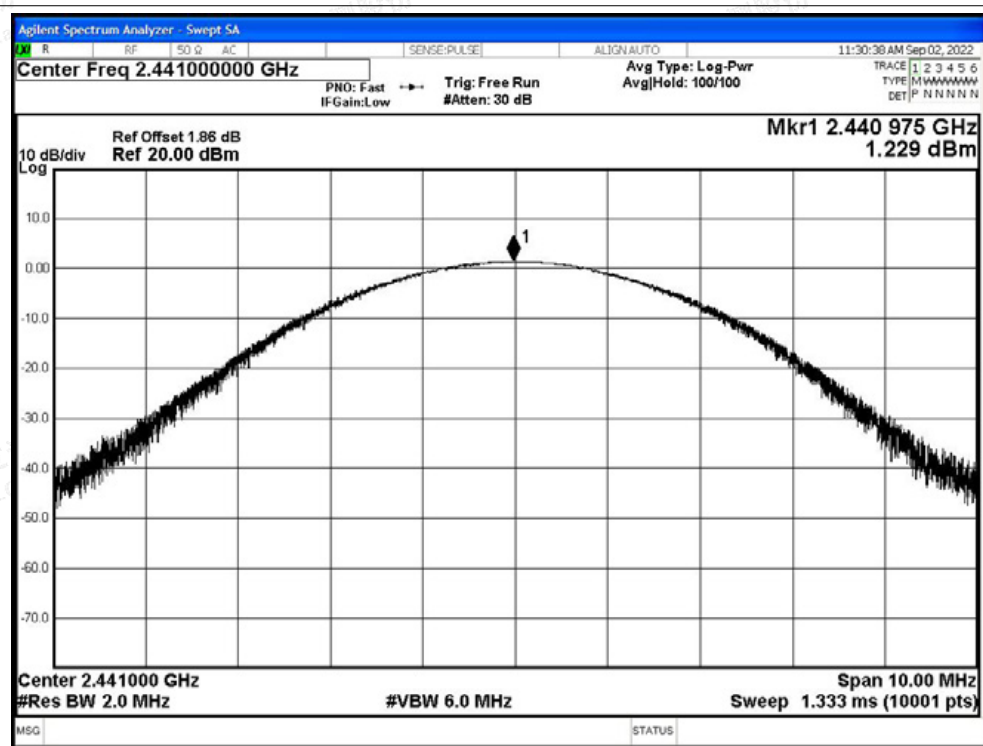


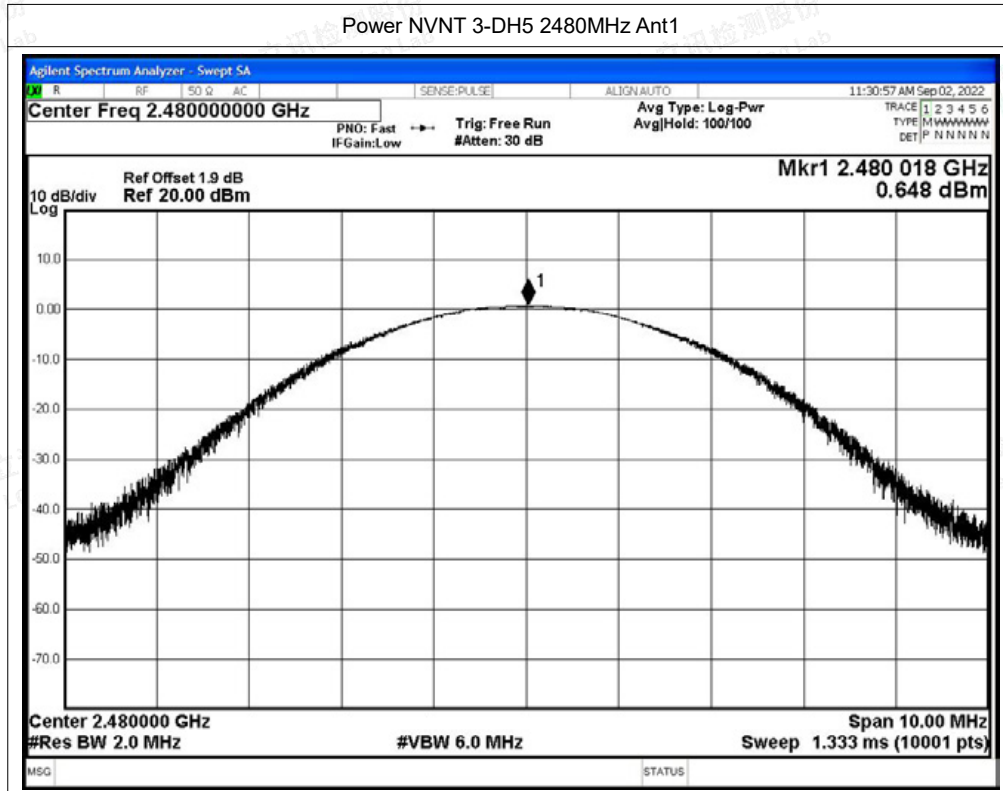


Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1







A.4 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.008	2403.016	1.008	0.649	Pass
NVNT	2-DH5	Ant1	2401.846	2402.848	1.002	0.89	Pass
NVNT	3-DH5	Ant1	2402.018	2403.142	1.124	0.893	Pass

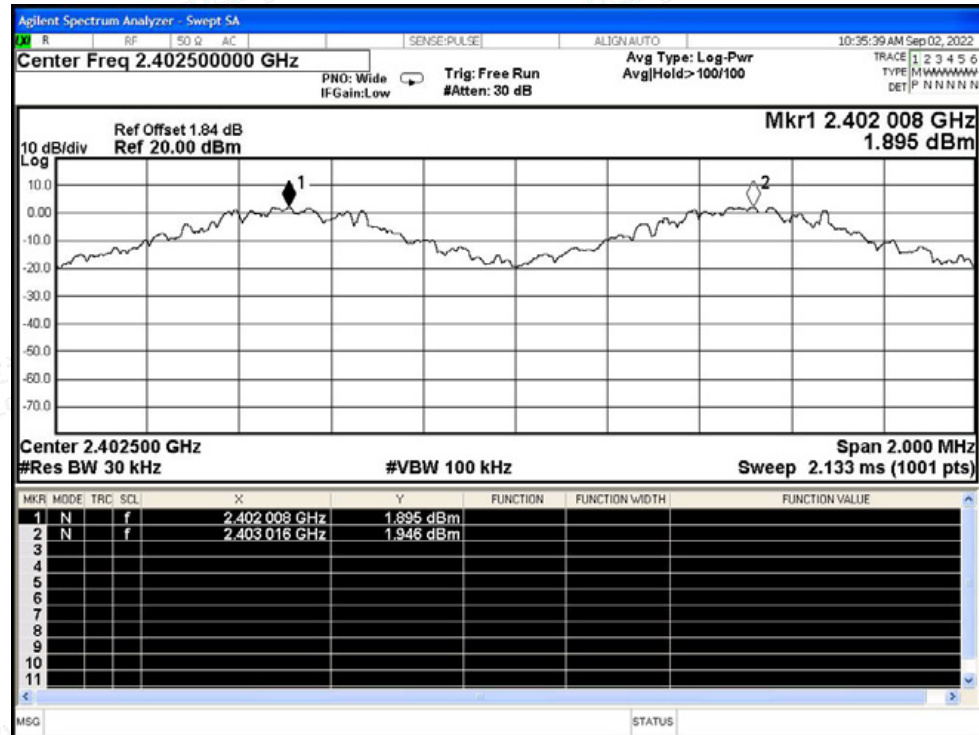


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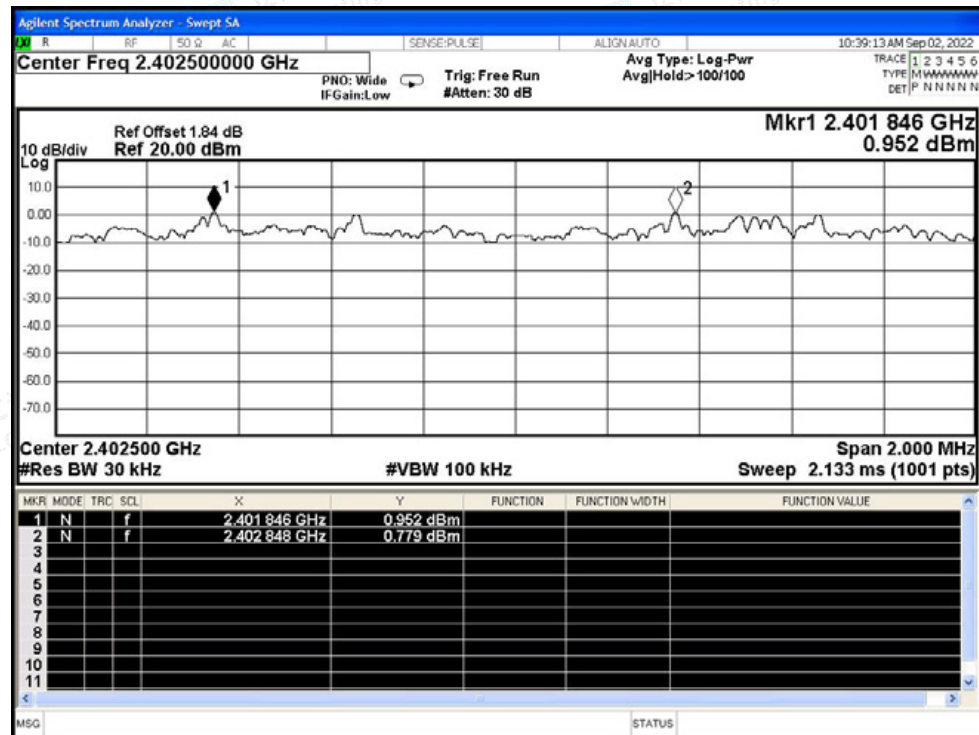


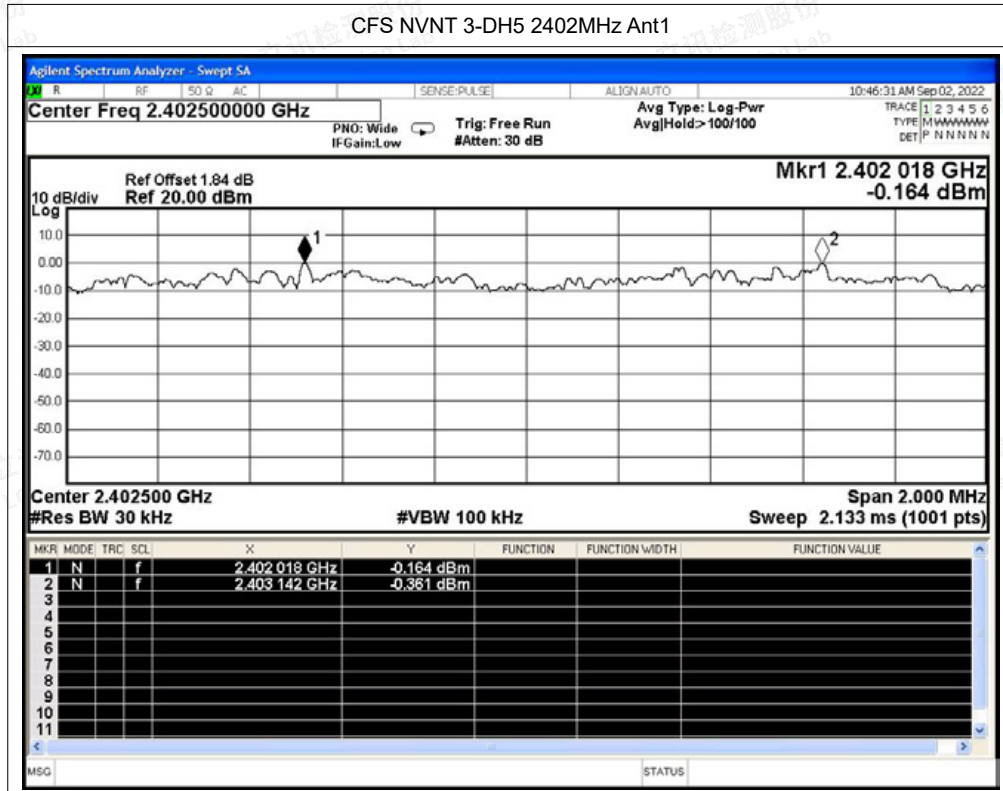
Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1







A.6 Number of Hopping Channel

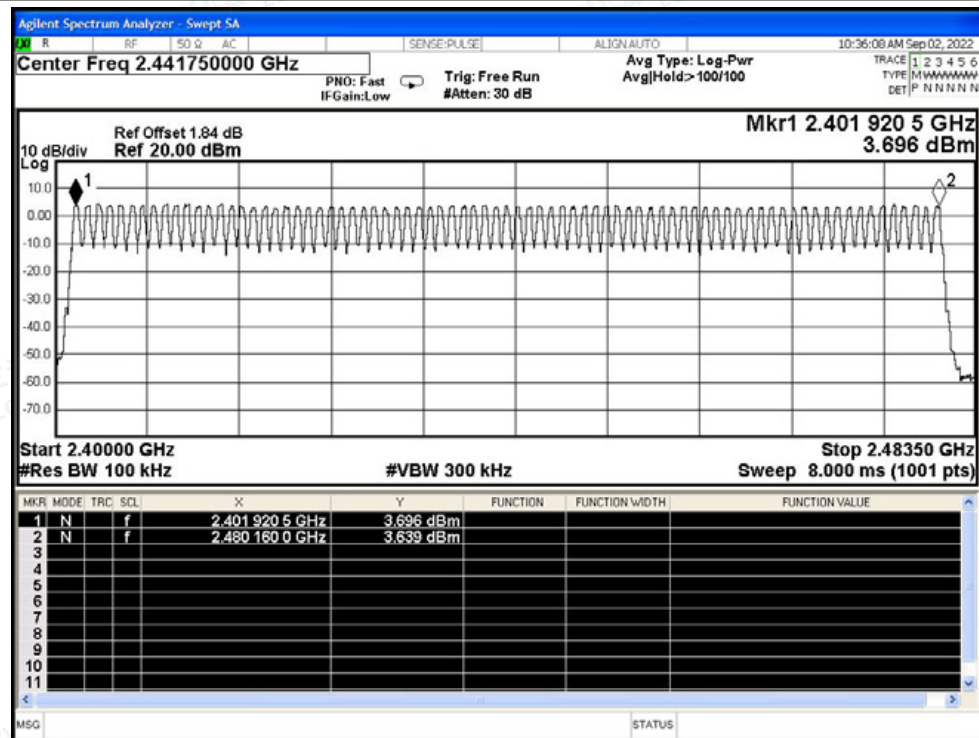
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



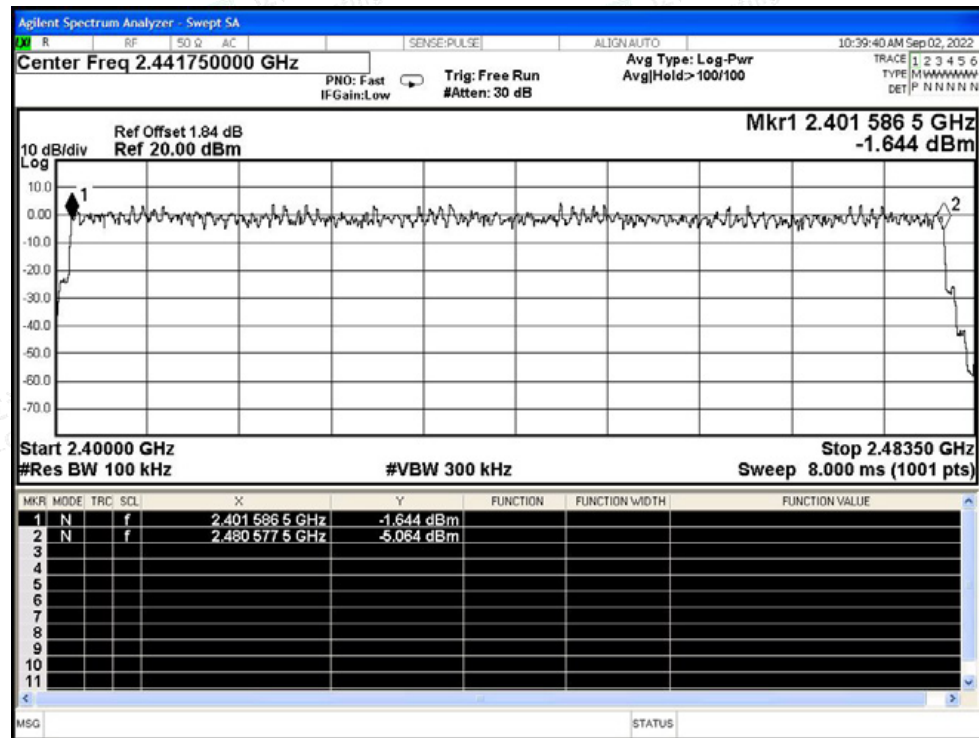


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1



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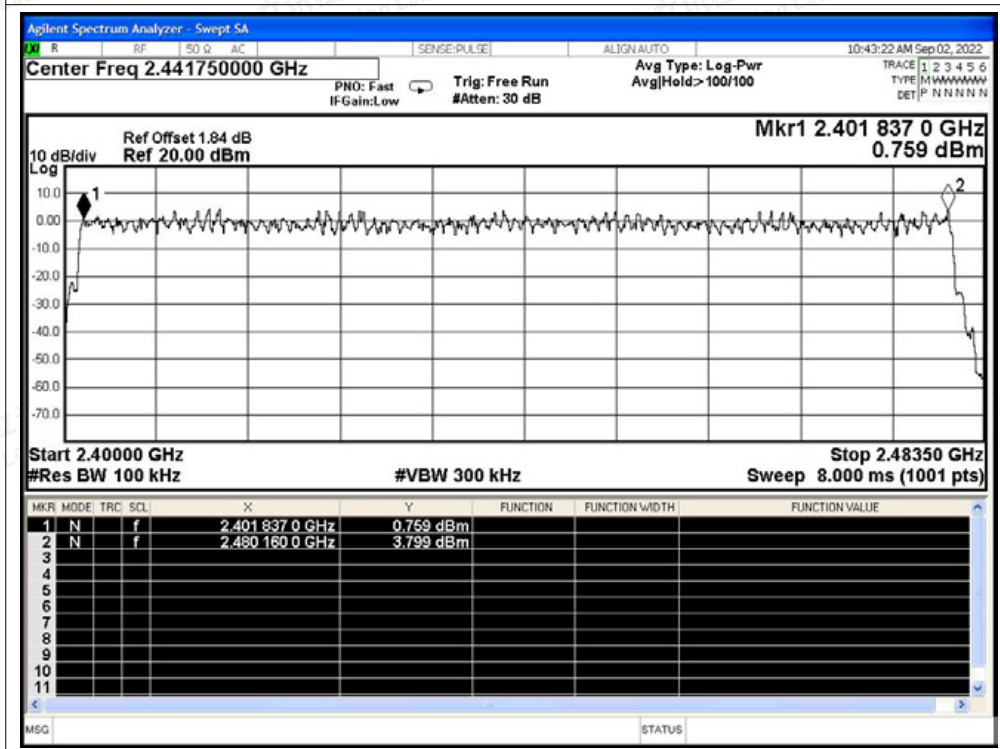
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Hopping No. NVNT 3-DH5 2402MHz Ant1



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A.5 Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.88	308.16	107	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.882	308.374	107	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.883	308.481	107	31600	400	Pass

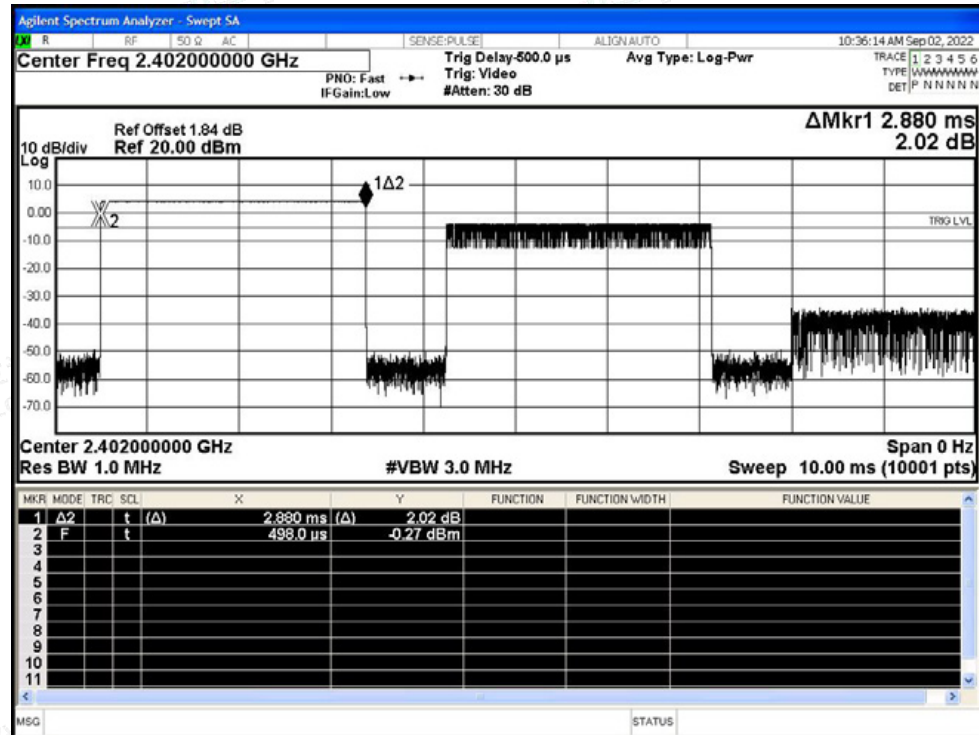


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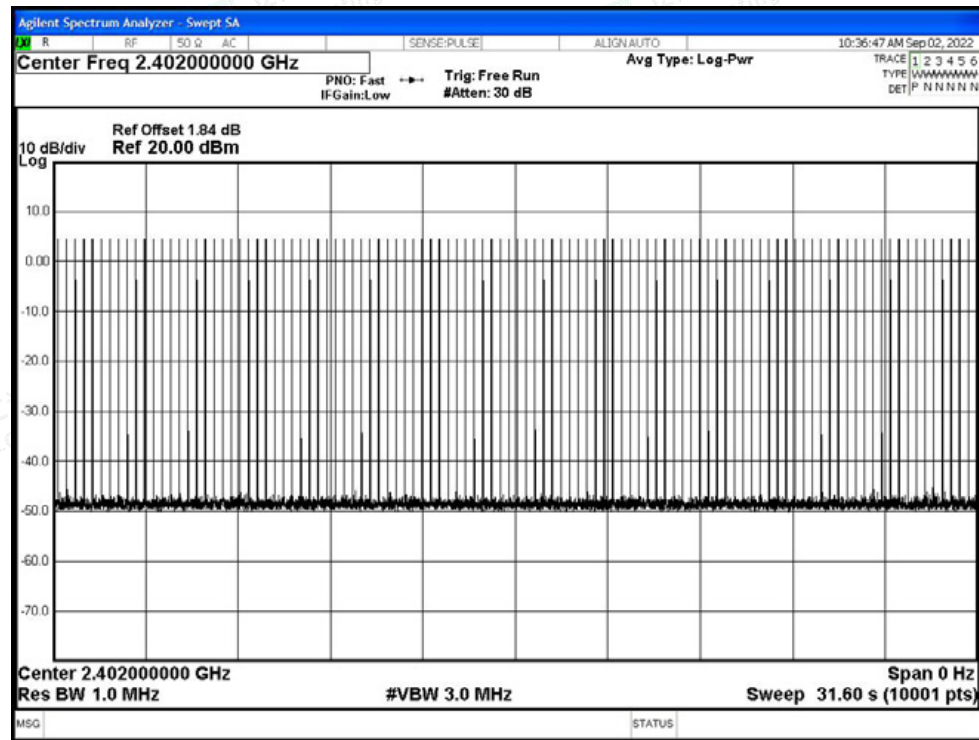


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

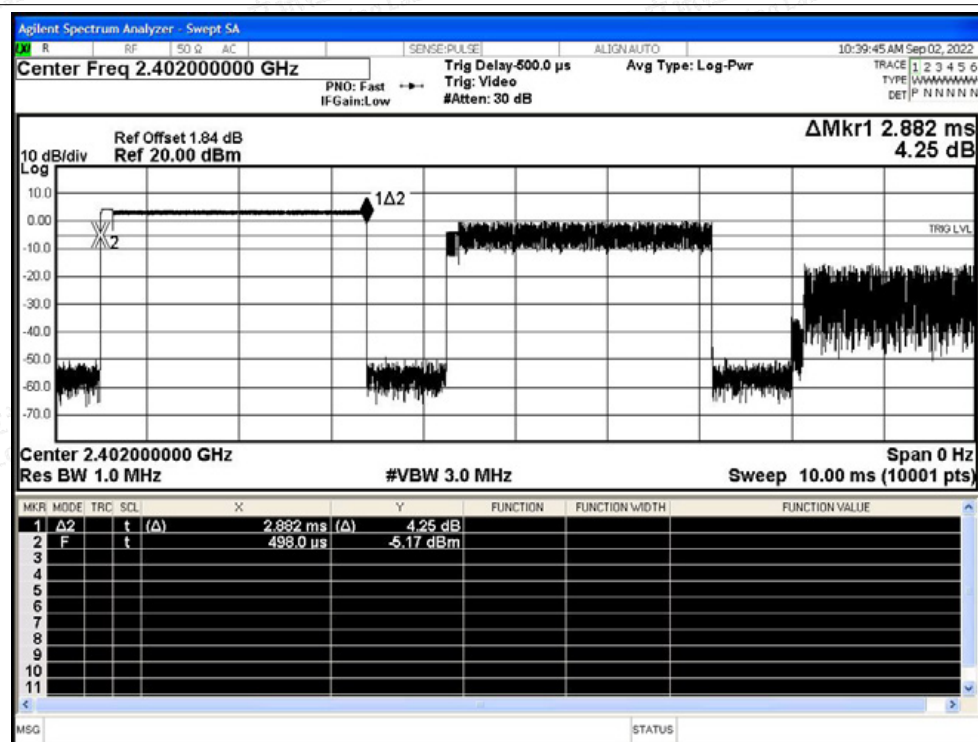


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

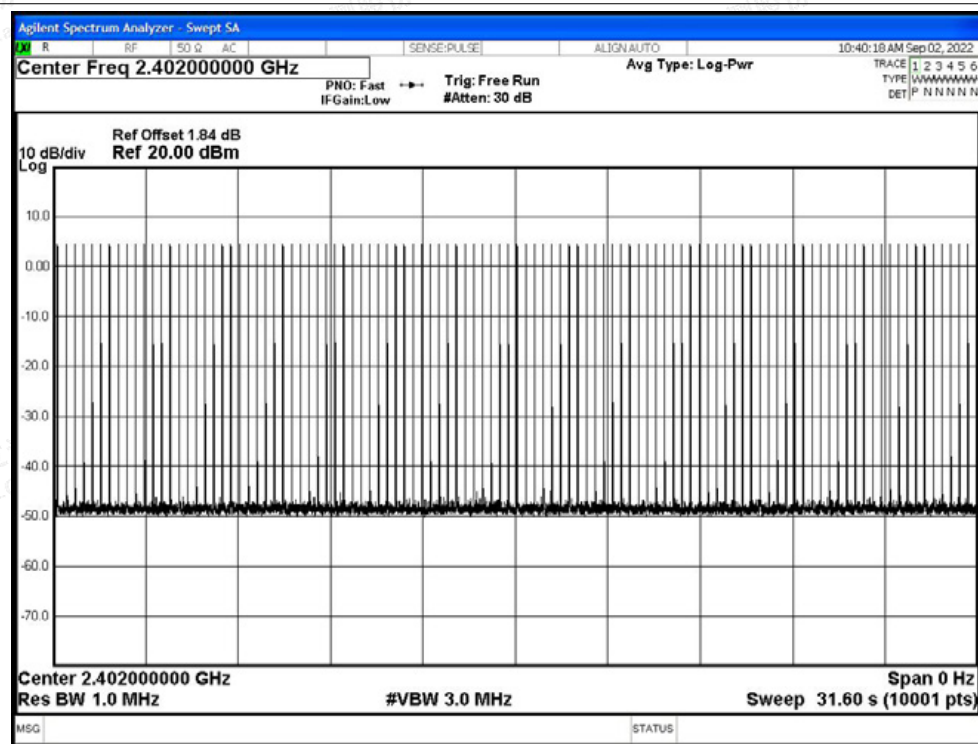




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

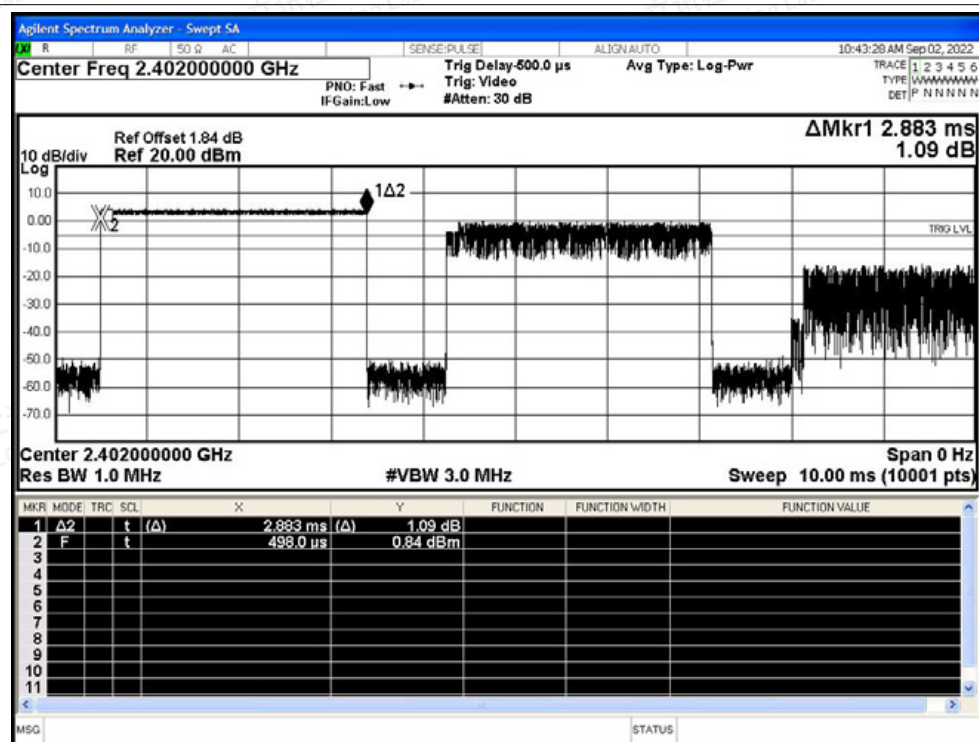


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

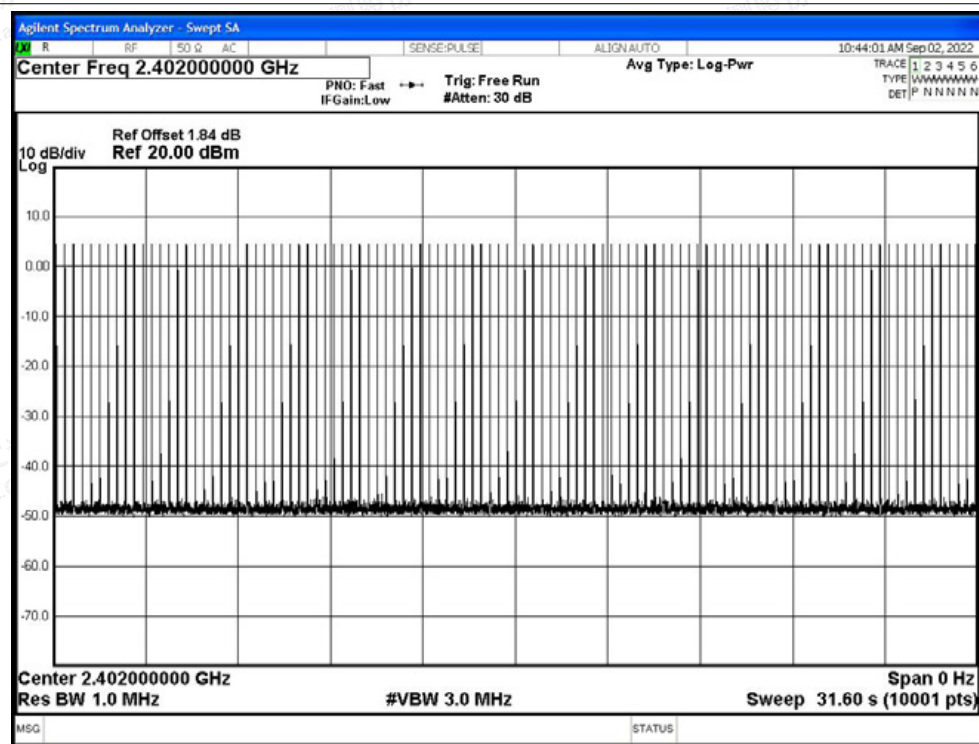




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated





A.7 Band Edge

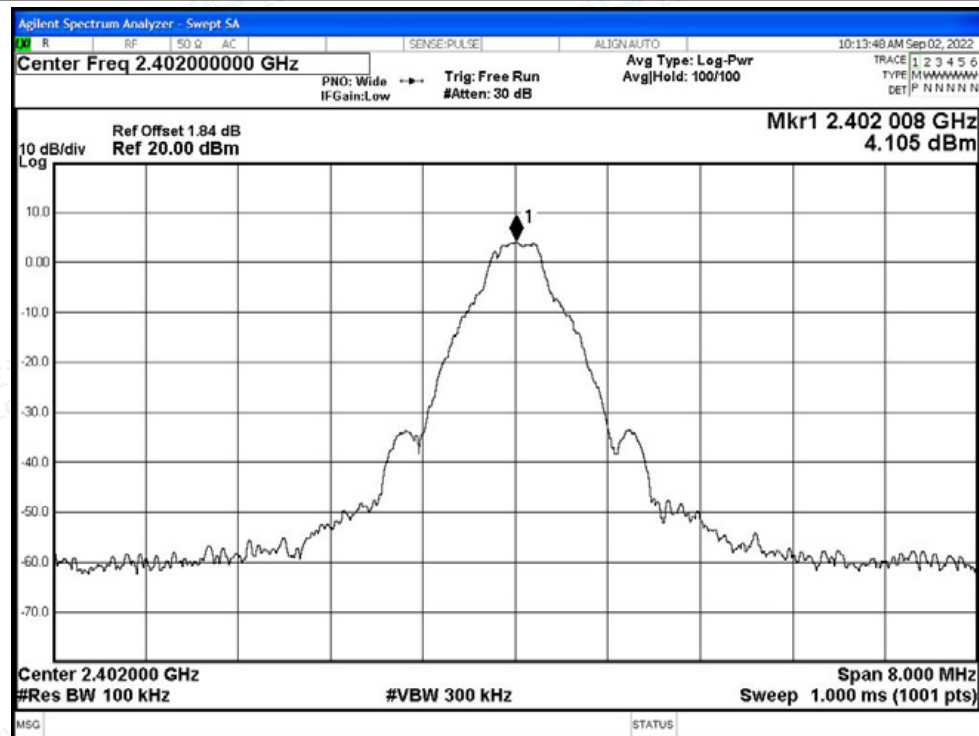
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-60.13	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-61.87	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-37.18	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-58.06	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-36.24	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-57.13	-20	Pass



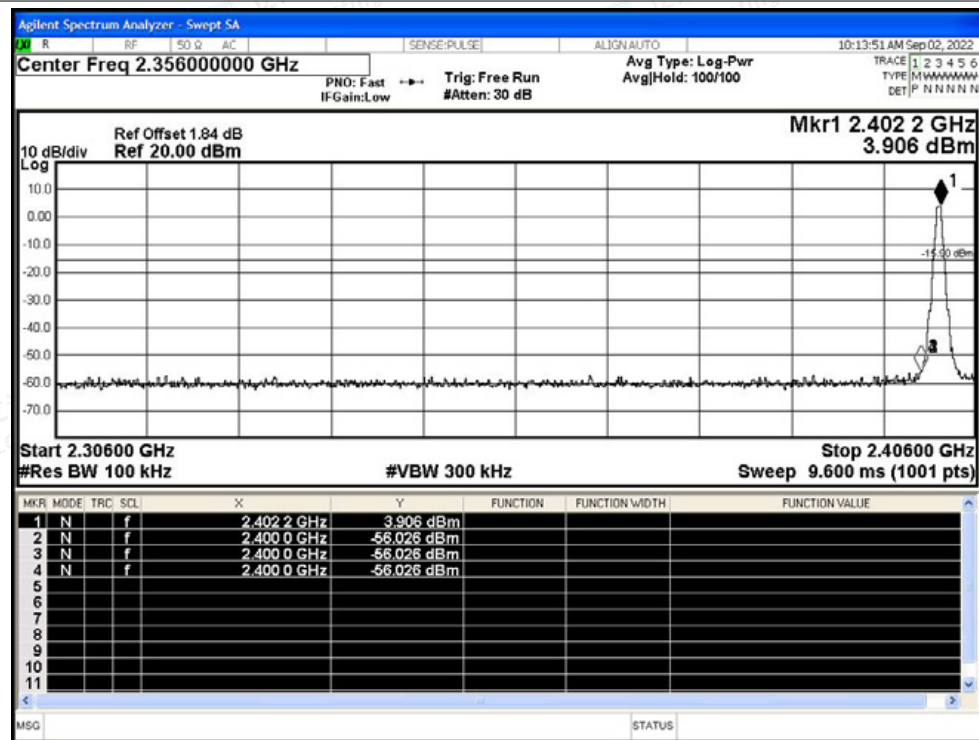


Test Graphs

Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref

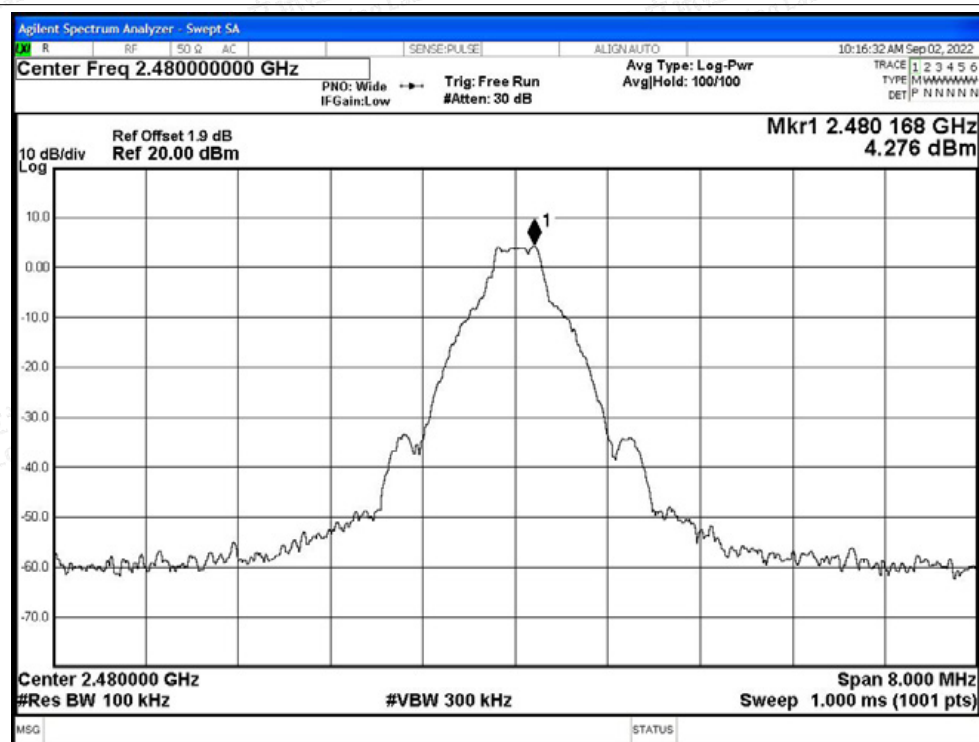


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

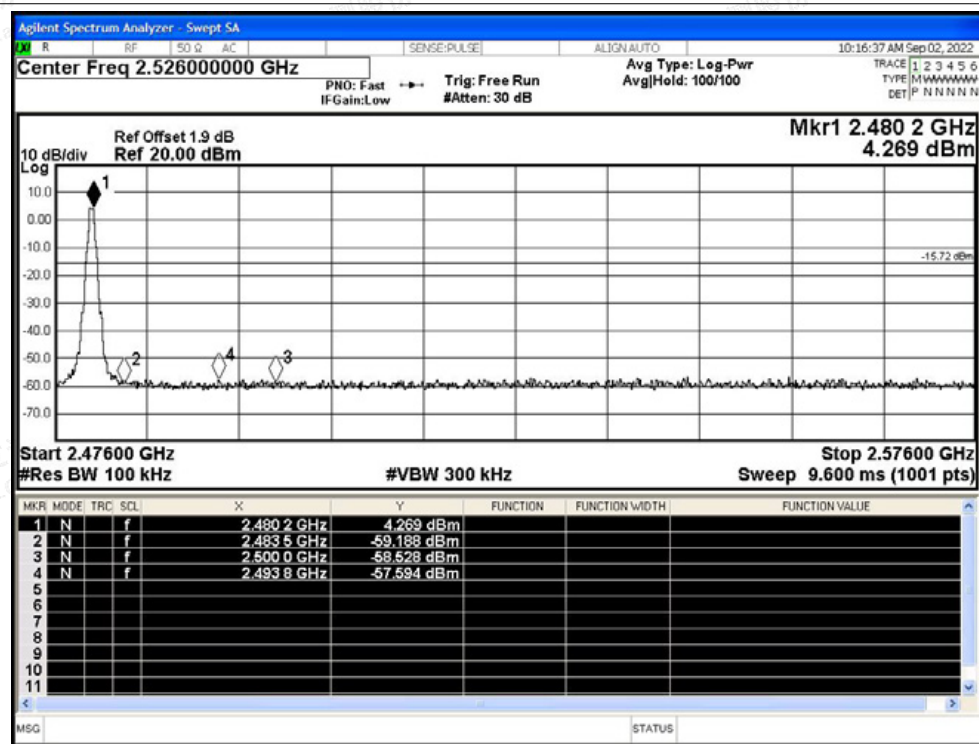




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

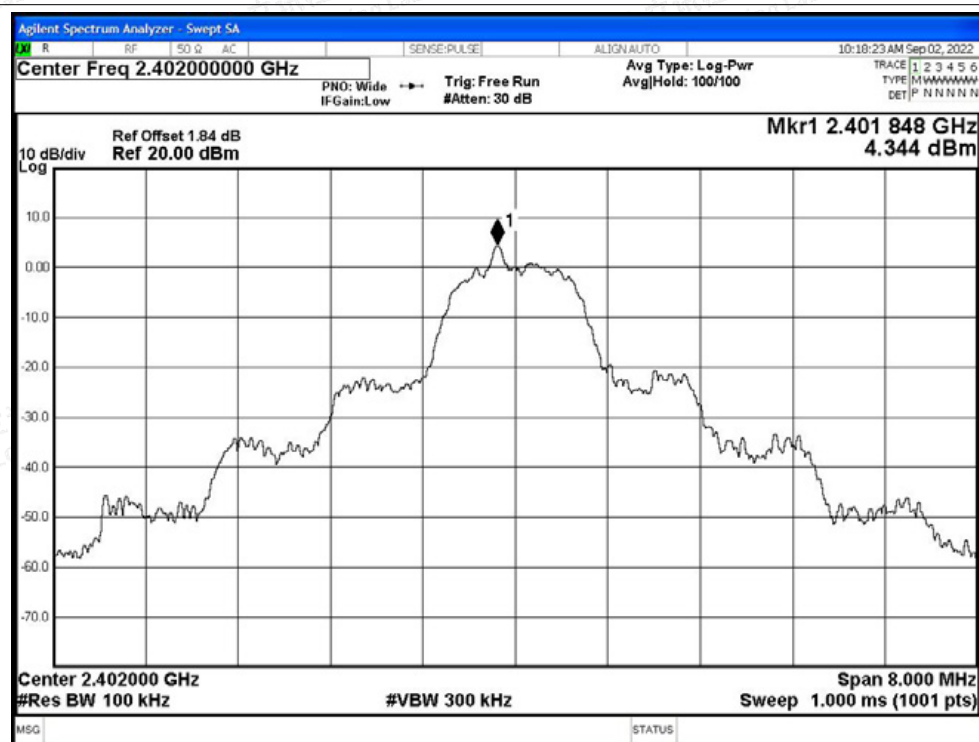


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

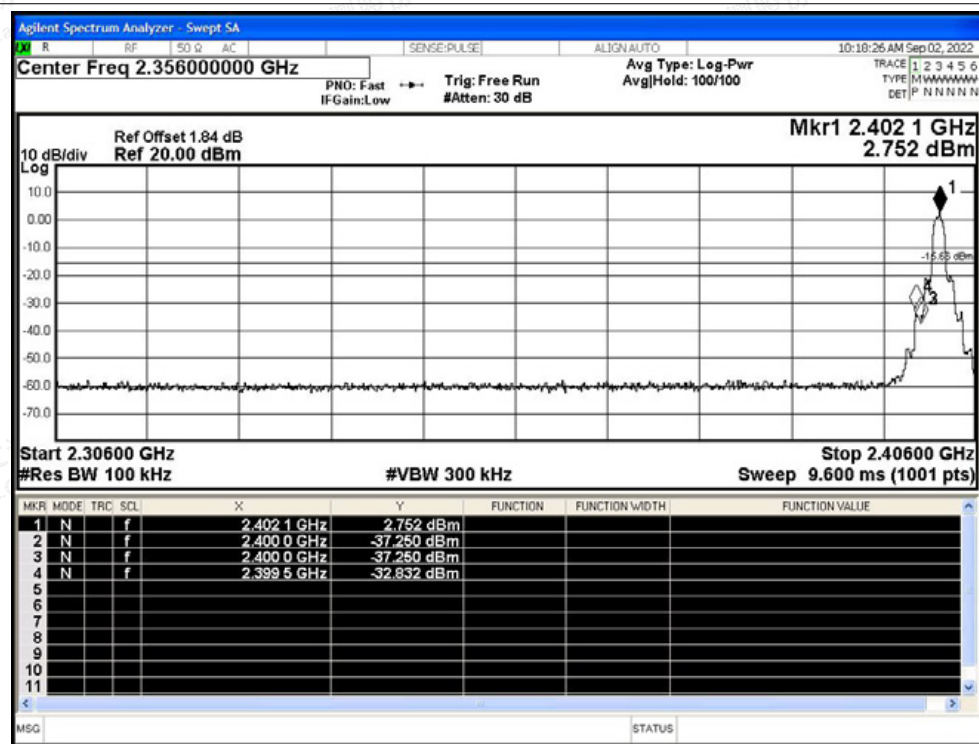




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

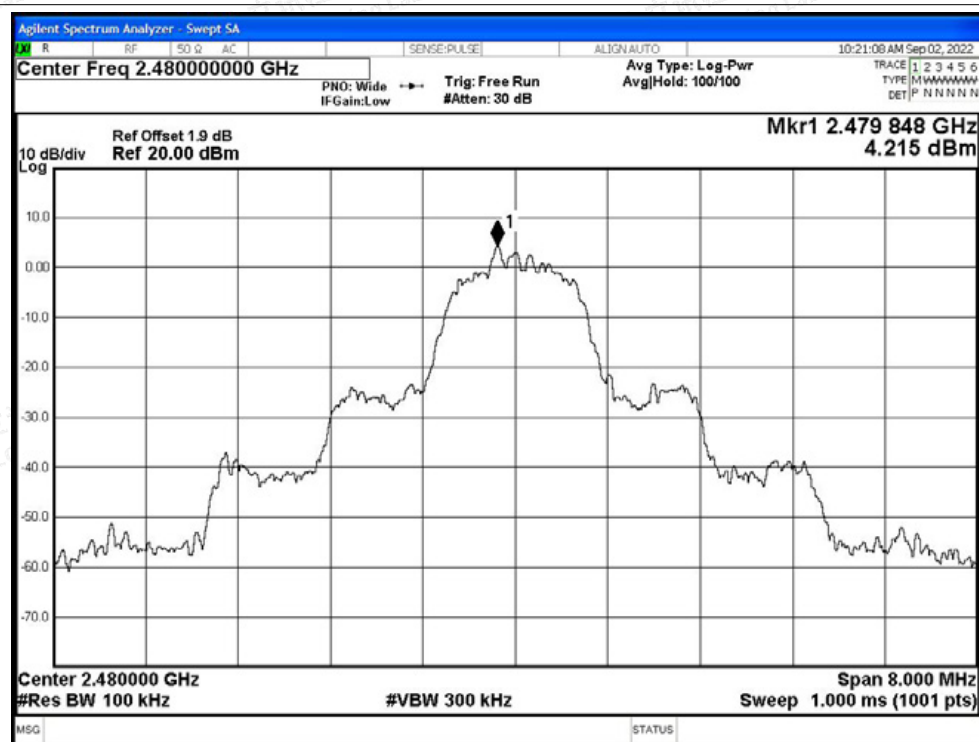


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

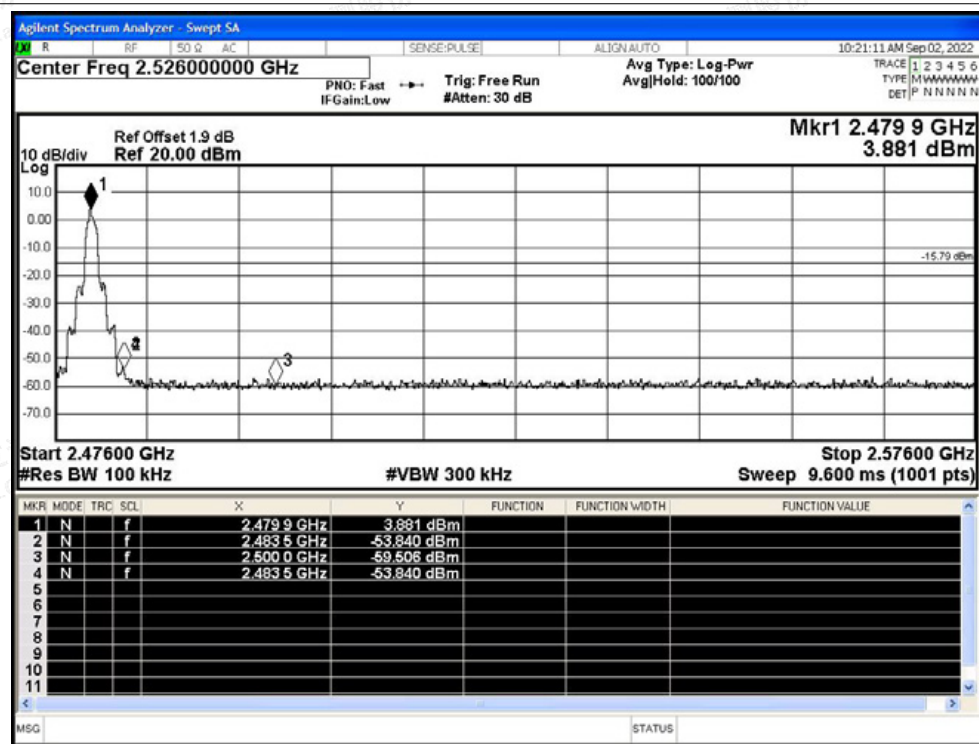




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

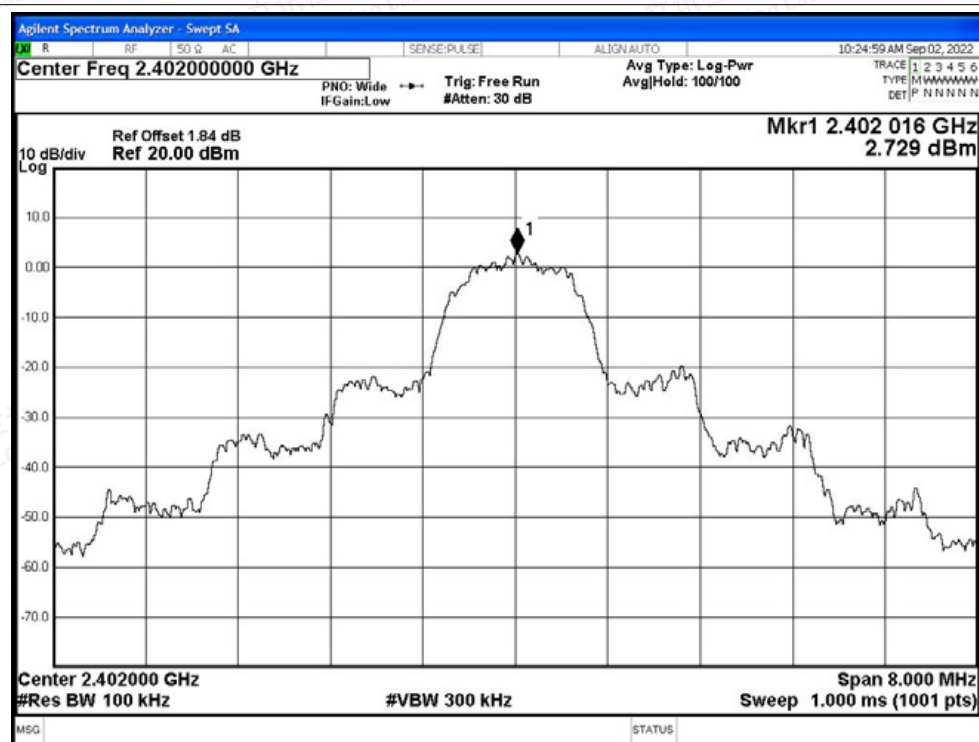


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission





Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

