



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Hyundai Mini PC

Test Model: HMB8M01

Environmental Conditions

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





A.1 -20dB Bandwidth

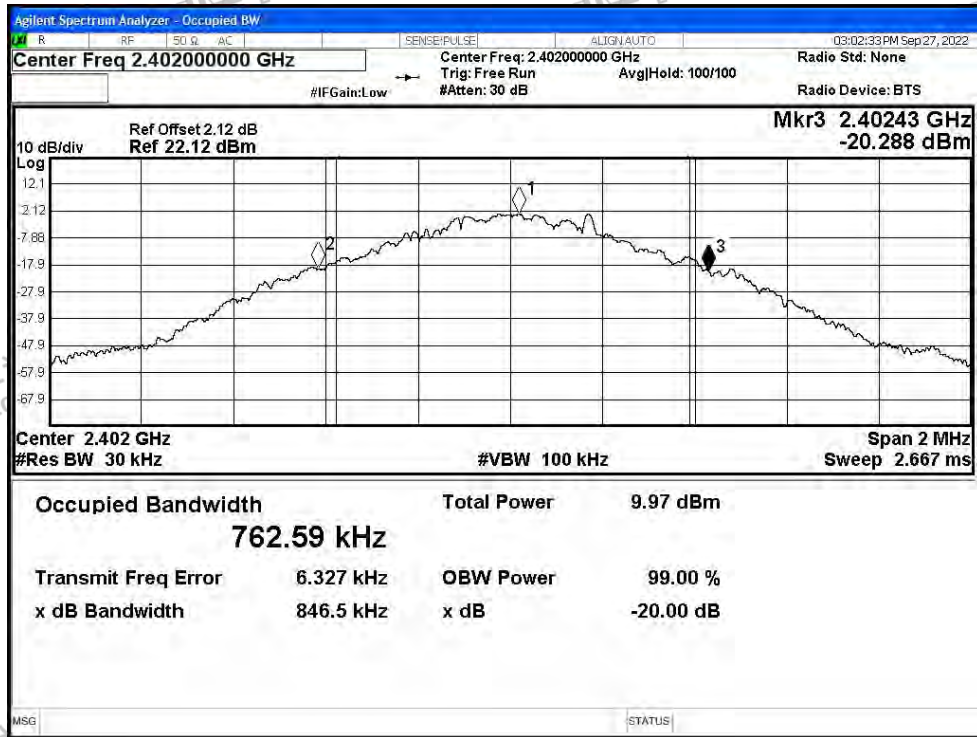
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.846	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.844	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.838	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.29	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.271	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.262	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.272	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.255	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.249	N/A	Pass





Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

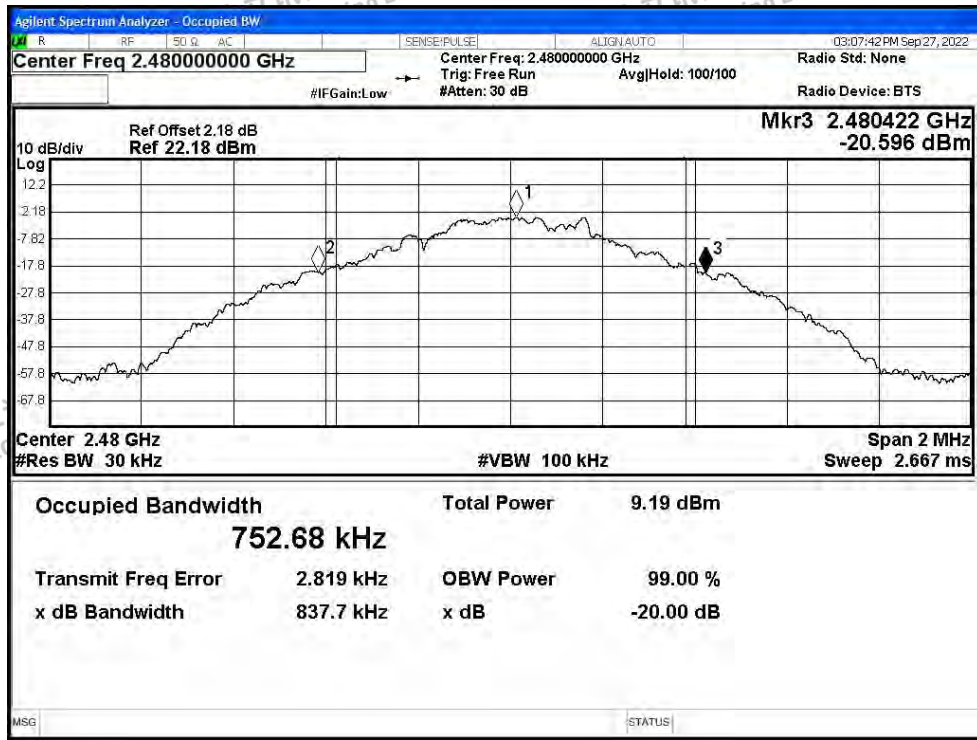


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

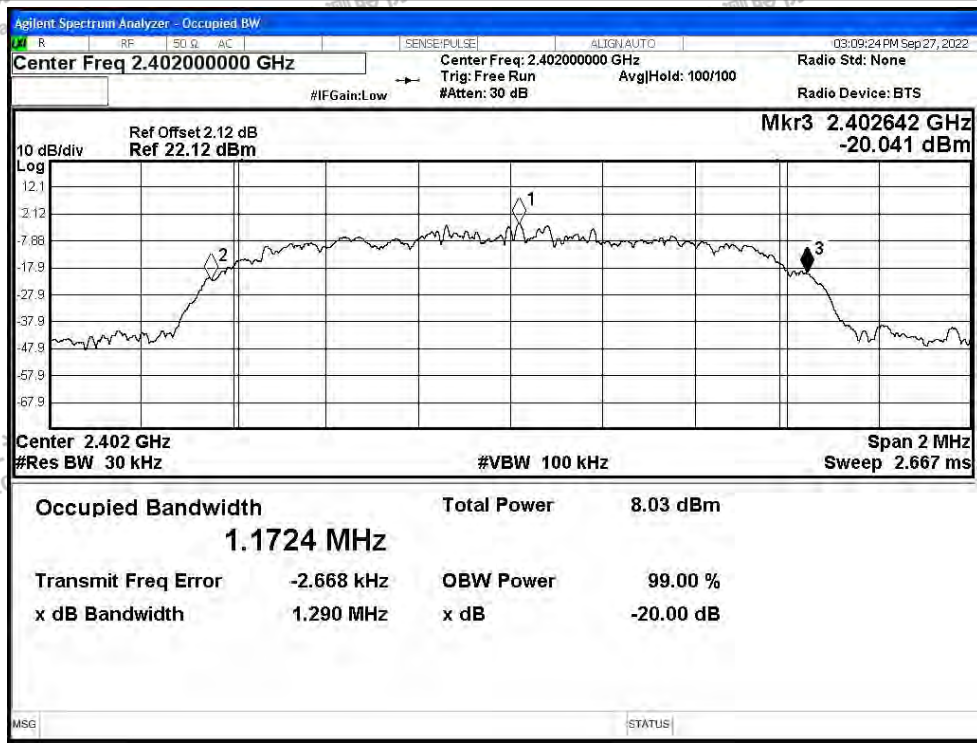




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

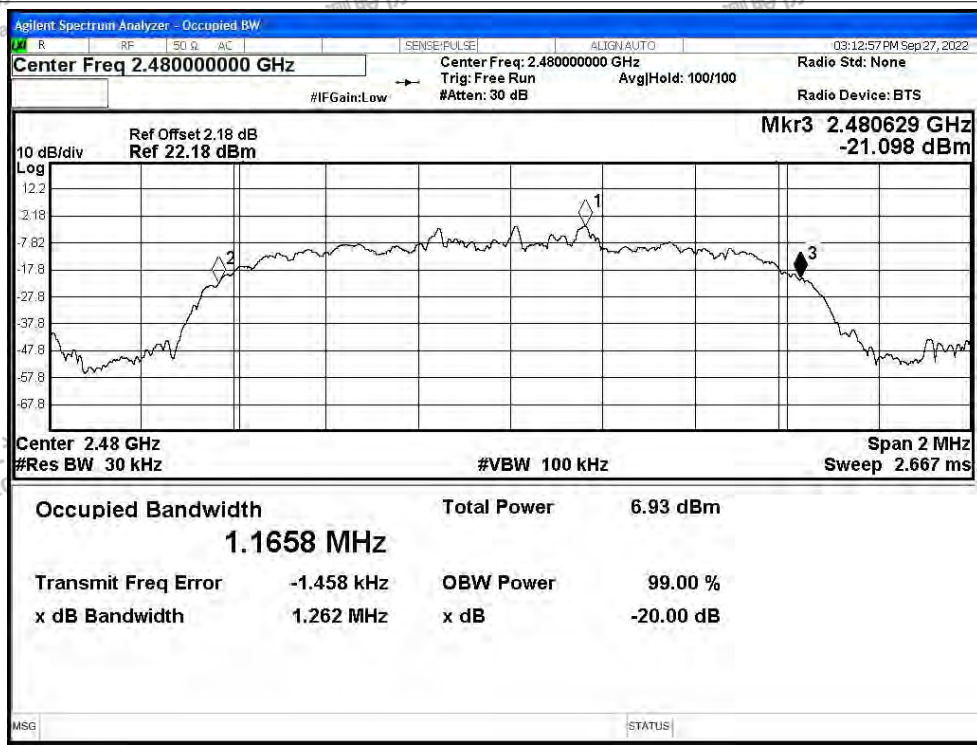




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

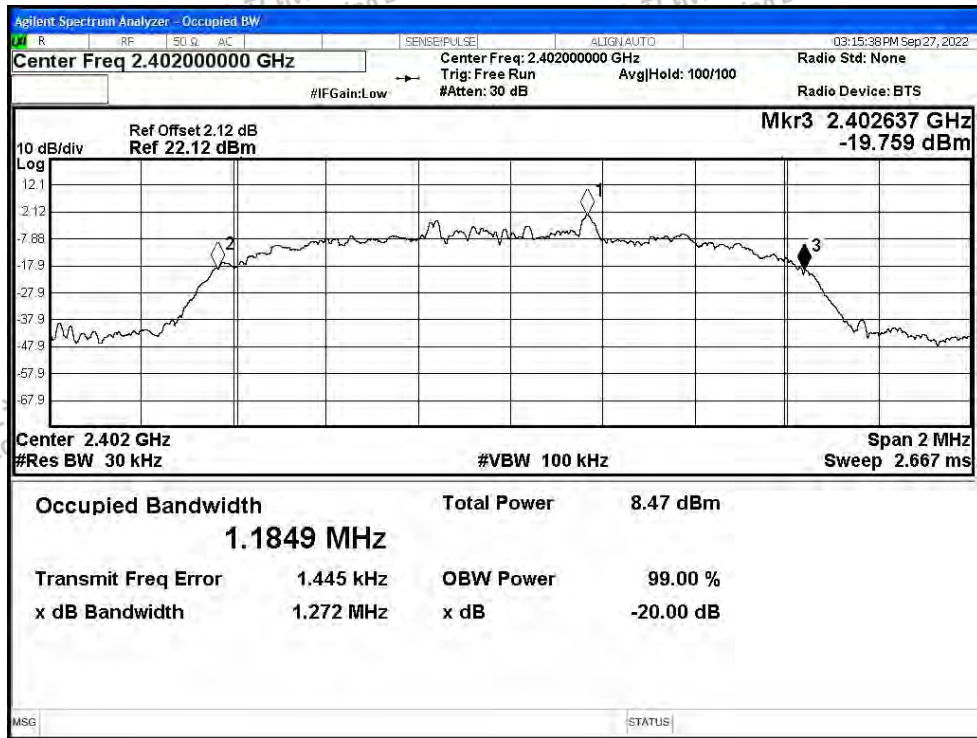


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

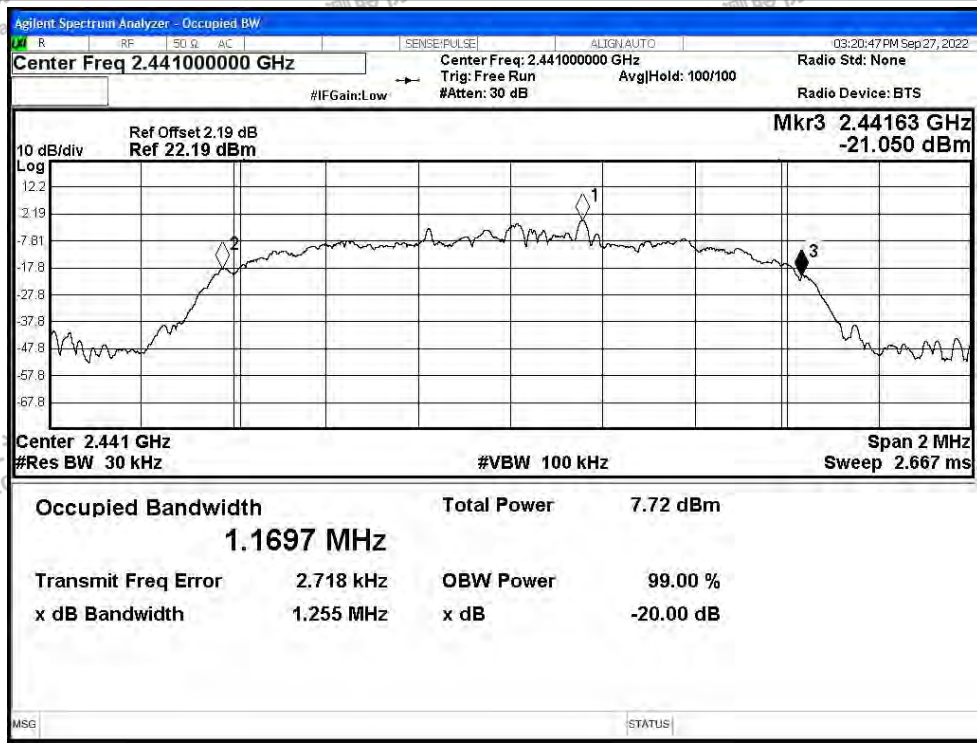




-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1

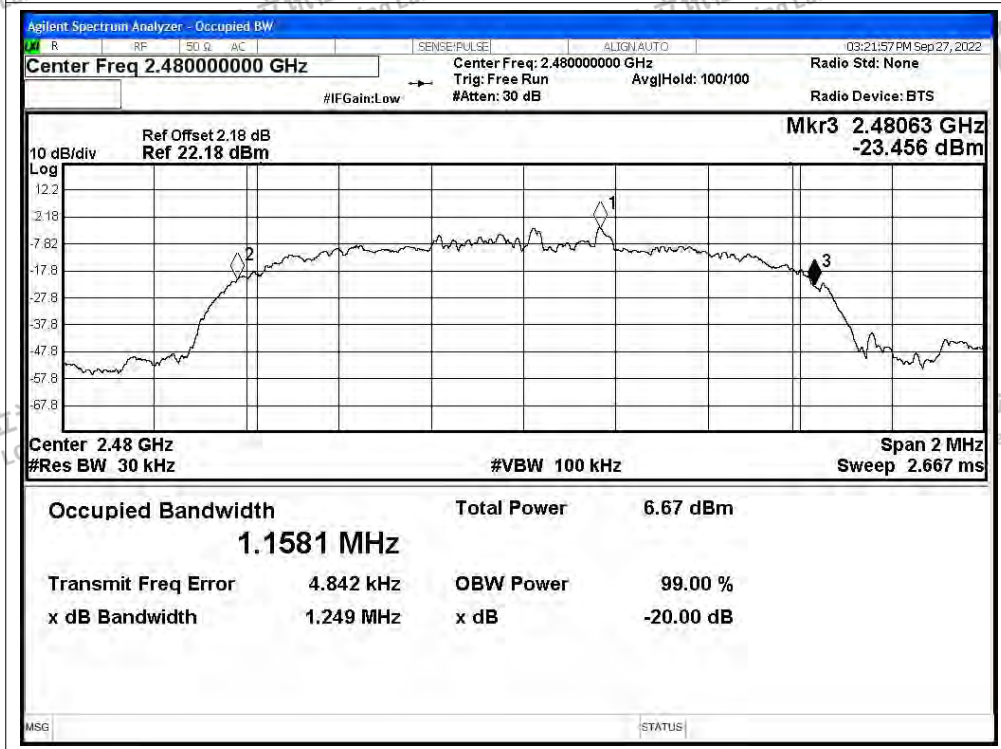


-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1





-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1





A.2 Occupied Channel Bandwidth

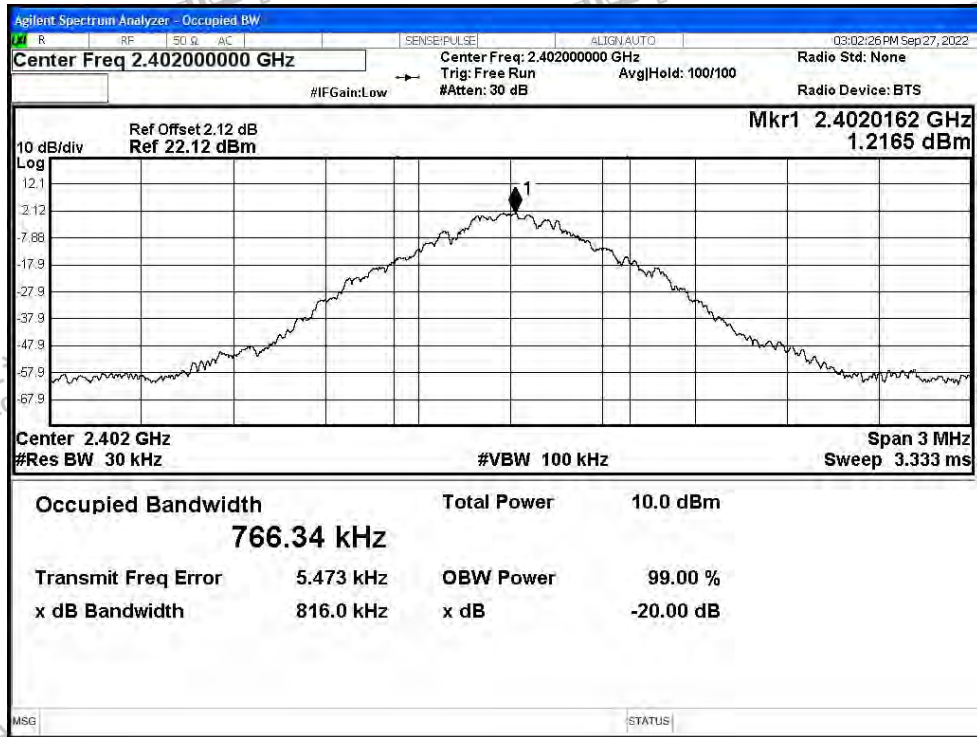
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH5	2402	Ant1	0.766
NVNT	1-DH5	2441	Ant1	0.751
NVNT	1-DH5	2480	Ant1	0.765
NVNT	2-DH5	2402	Ant1	1.176
NVNT	2-DH5	2441	Ant1	1.163
NVNT	2-DH5	2480	Ant1	1.165
NVNT	3-DH5	2402	Ant1	1.181
NVNT	3-DH5	2441	Ant1	1.176
NVNT	3-DH5	2480	Ant1	1.158



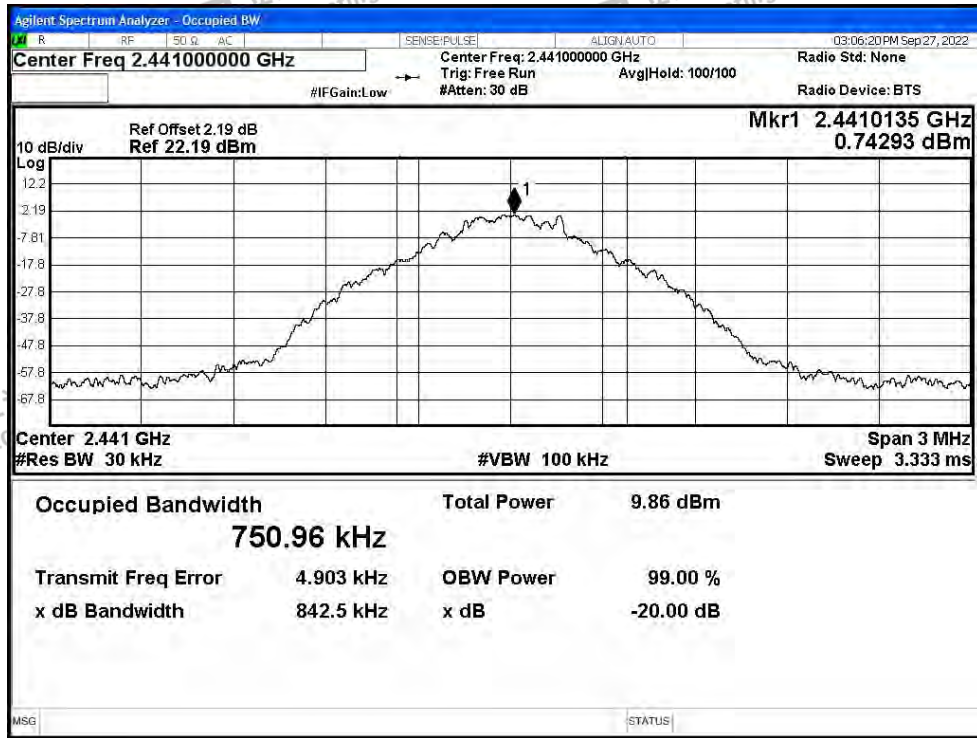


Test Graphs

OBW NVNT 1-DH5 2402MHz Ant1

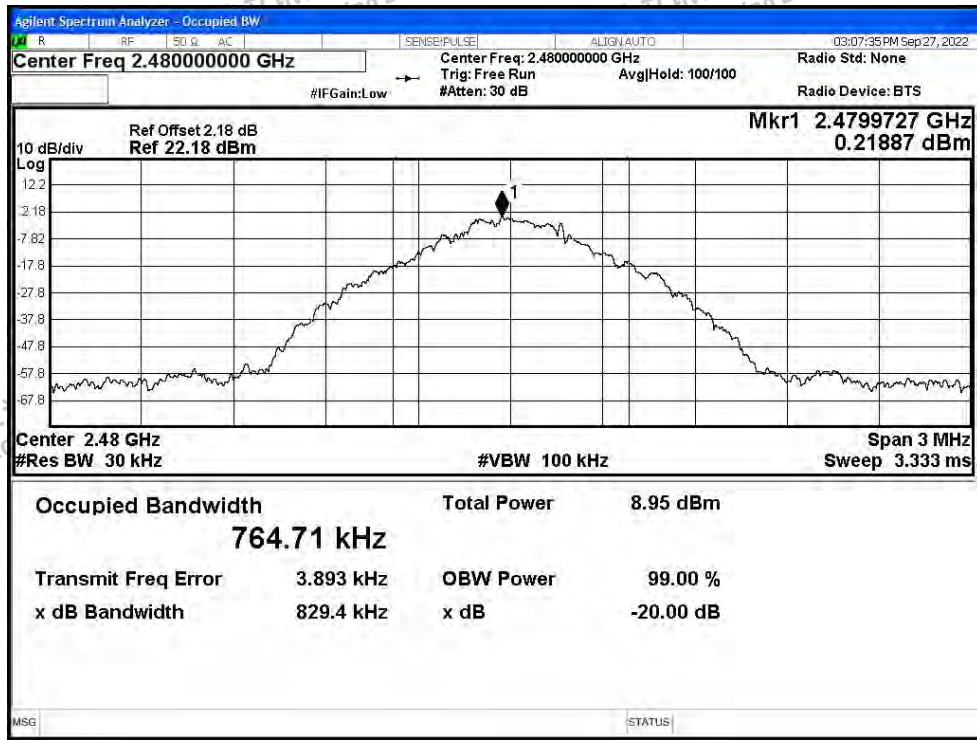


OBW NVNT 1-DH5 2441MHz Ant1





OBW NVNT 1-DH5 2480MHz Ant1

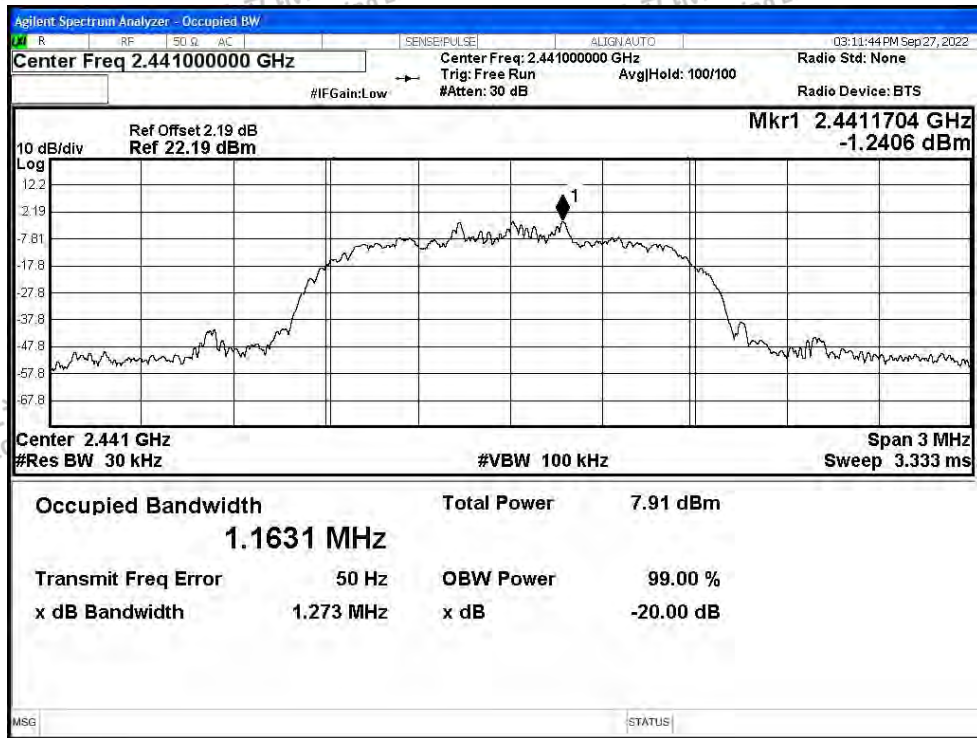


OBW NVNT 2-DH5 2402MHz Ant1





OBW NVNT 2-DH5 2441MHz Ant1

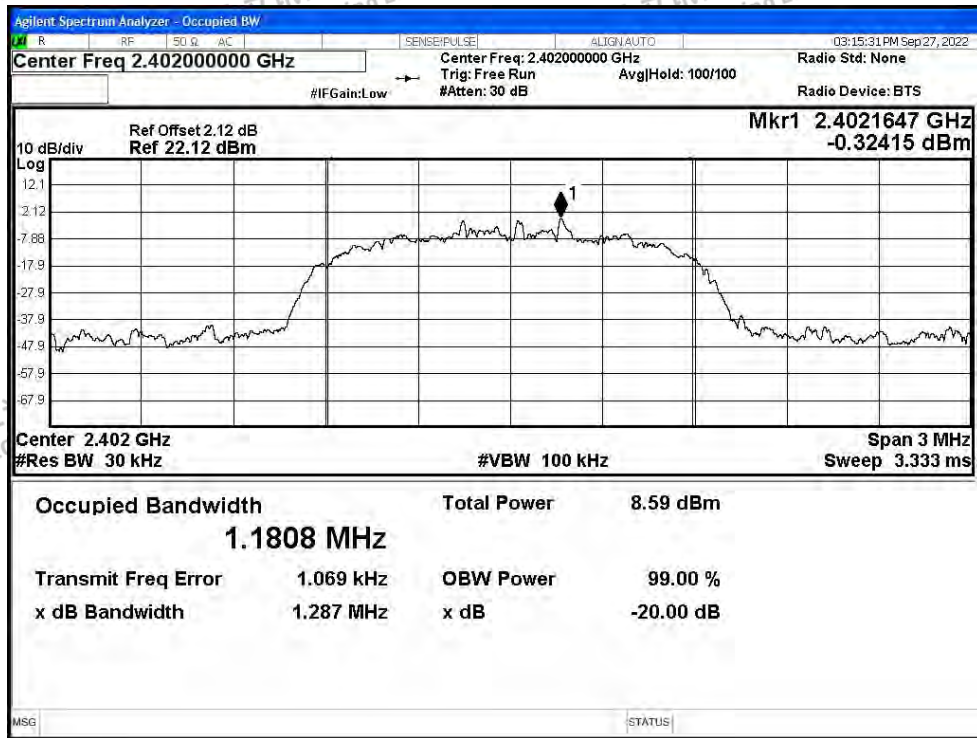


OBW NVNT 2-DH5 2480MHz Ant1





OBW NVNT 3-DH5 2402MHz Ant1

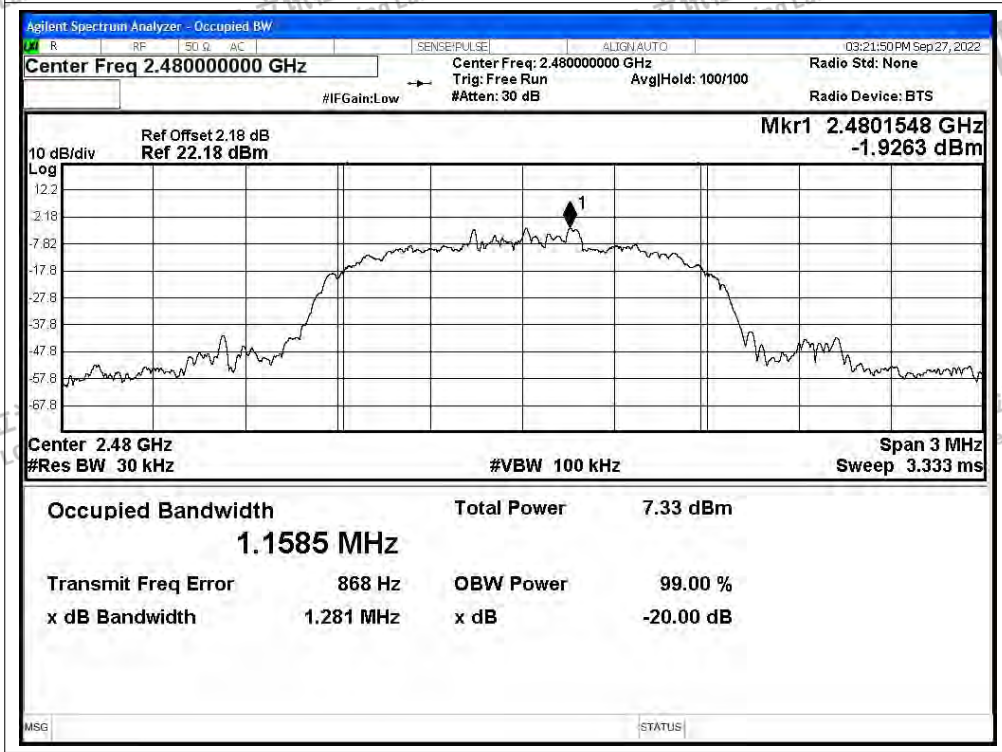


OBW NVNT 3-DH5 2441MHz Ant1





OBW NVNT 3-DH5 2480MHz Ant1





A.3 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	4.03	21	Pass
NVNT	1-DH5	2441	Ant1	3.39	21	Pass
NVNT	1-DH5	2480	Ant1	2.9	21	Pass
NVNT	2-DH5	2402	Ant1	3.62	21	Pass
NVNT	2-DH5	2441	Ant1	2.77	21	Pass
NVNT	2-DH5	2480	Ant1	2.16	21	Pass
NVNT	3-DH5	2402	Ant1	3.71	21	Pass
NVNT	3-DH5	2441	Ant1	2.76	21	Pass
NVNT	3-DH5	2480	Ant1	2.16	21	Pass

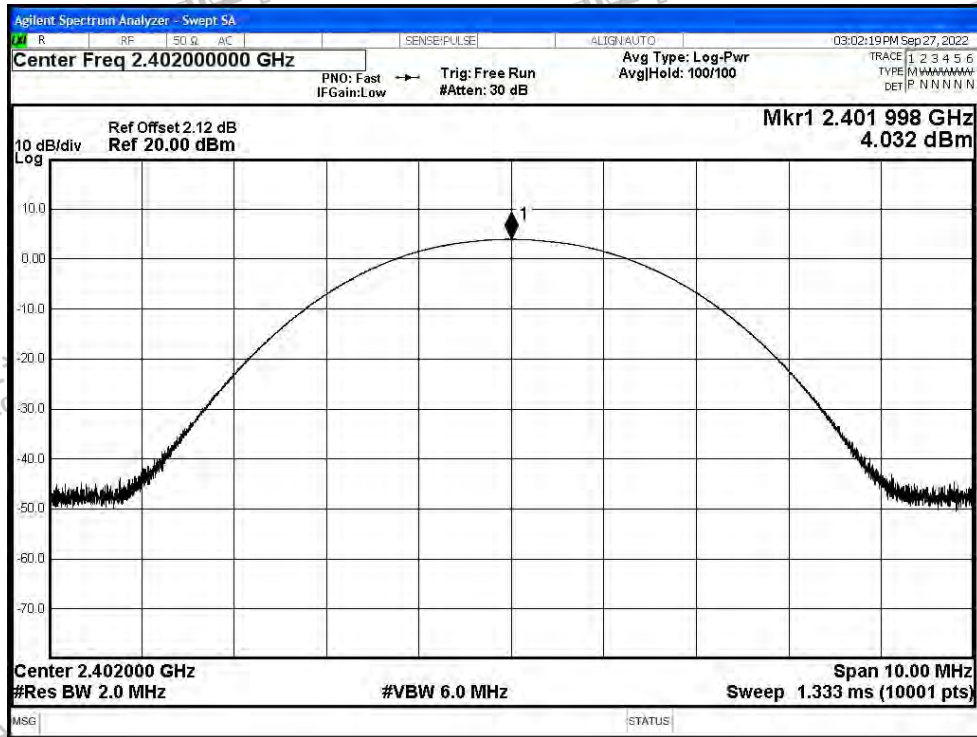


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 Scan code to check authenticity

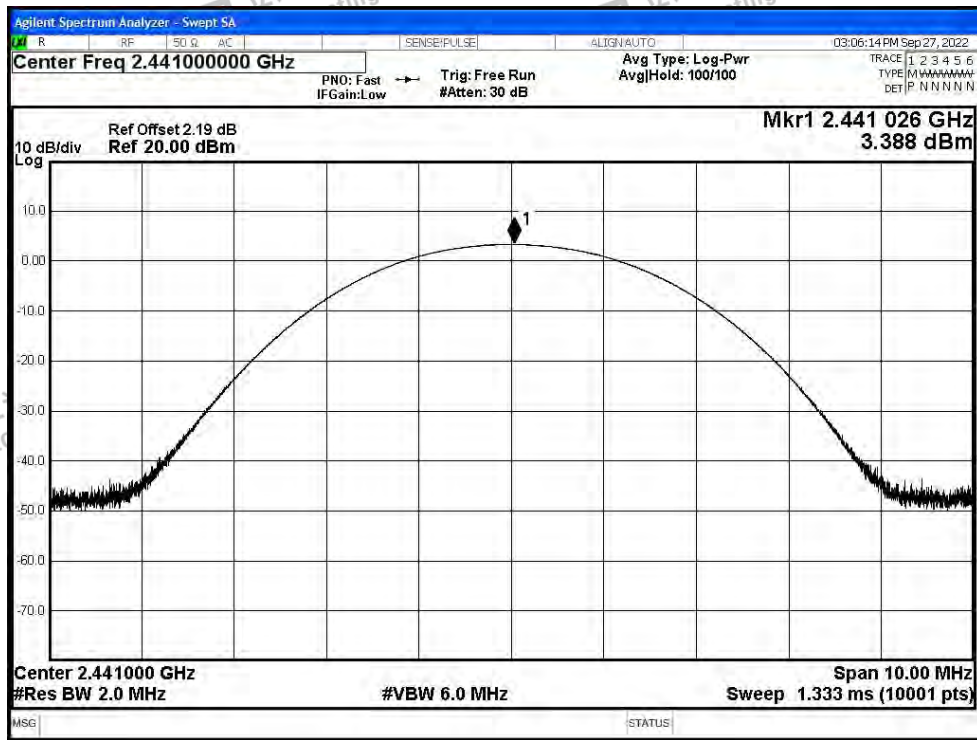


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

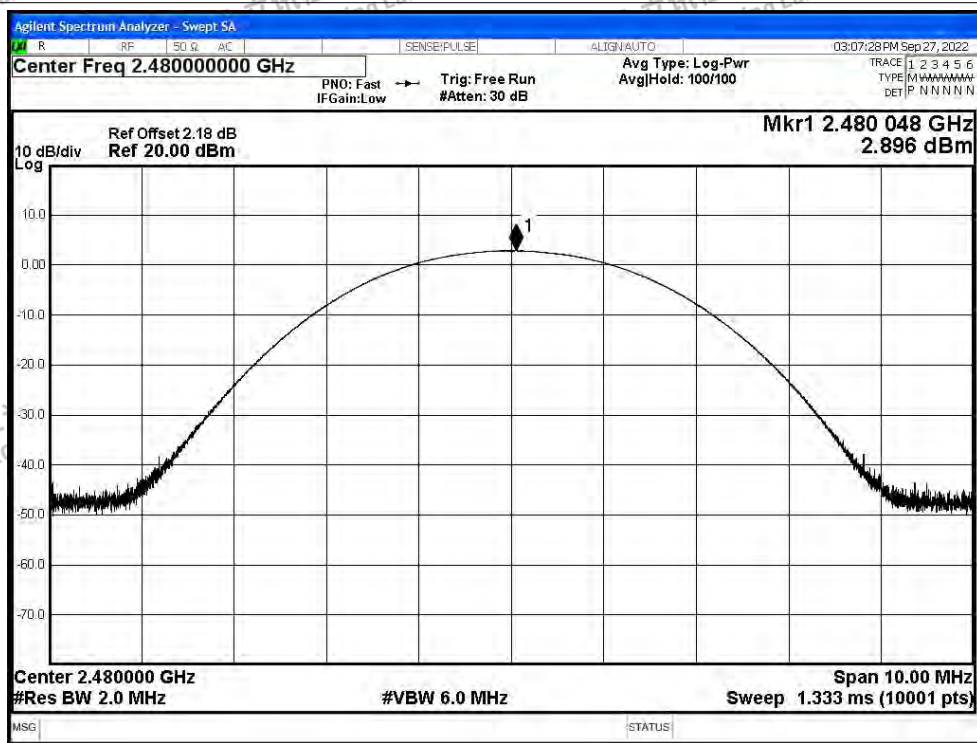


Power NVNT 1-DH5 2441MHz Ant1

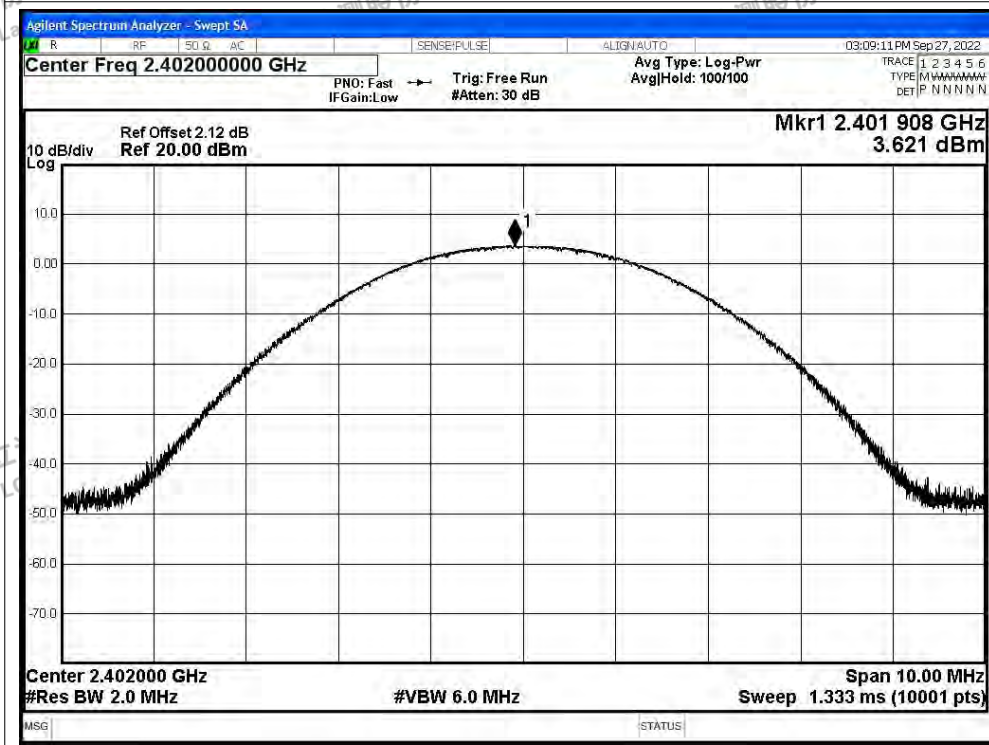




Power NVNT 1-DH5 2480MHz Ant1

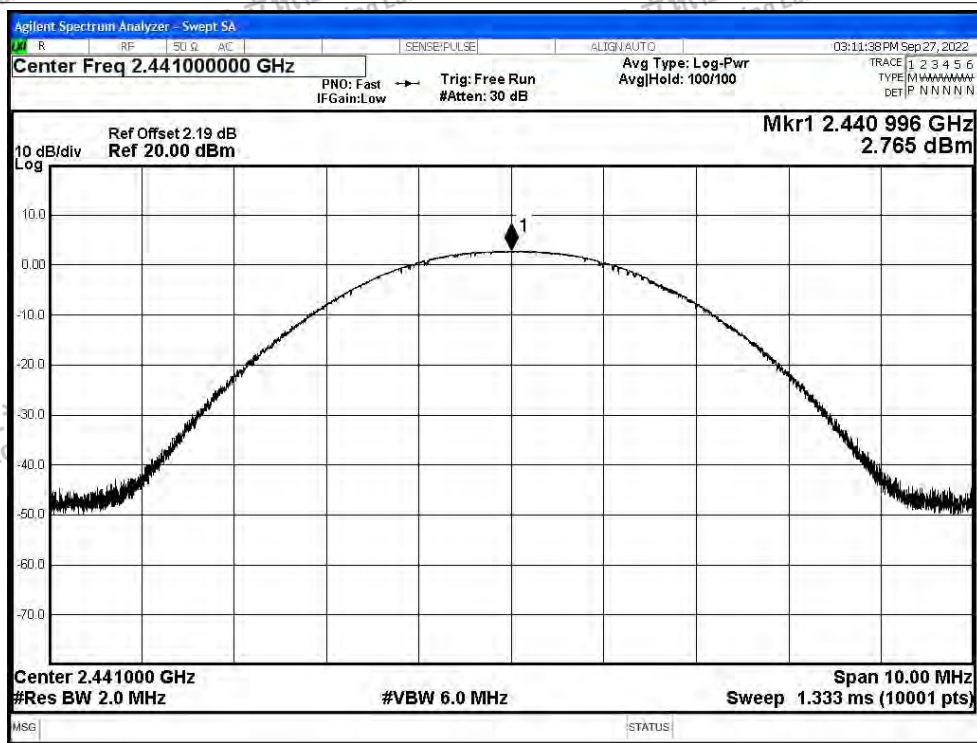


Power NVNT 2-DH5 2402MHz Ant1

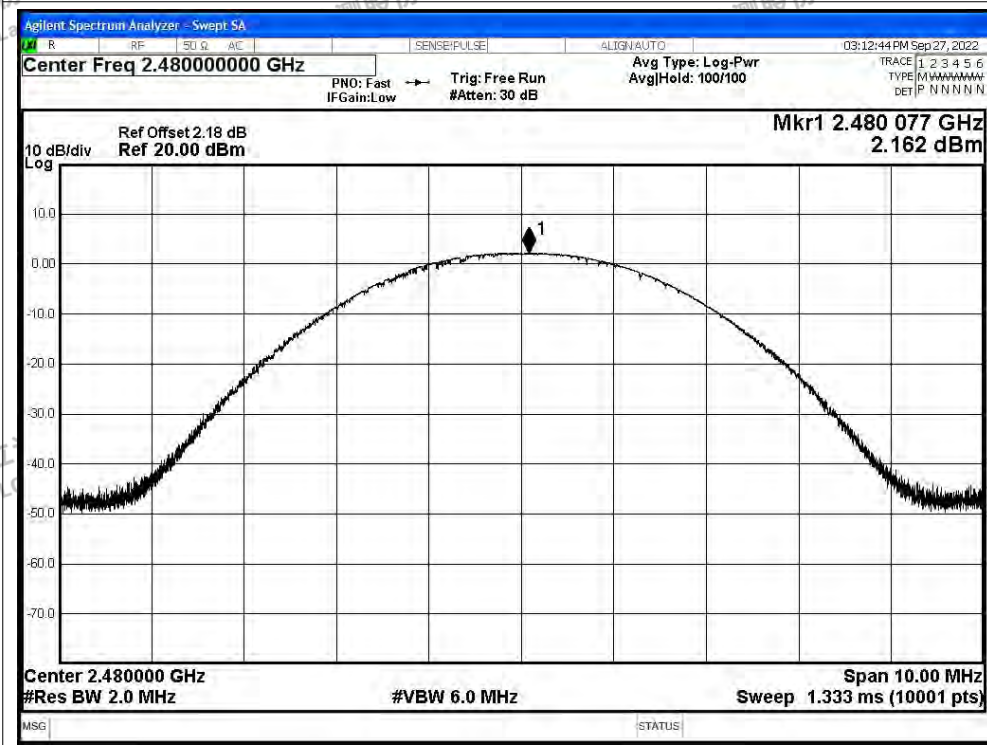




Power NVNT 2-DH5 2441MHz Ant1

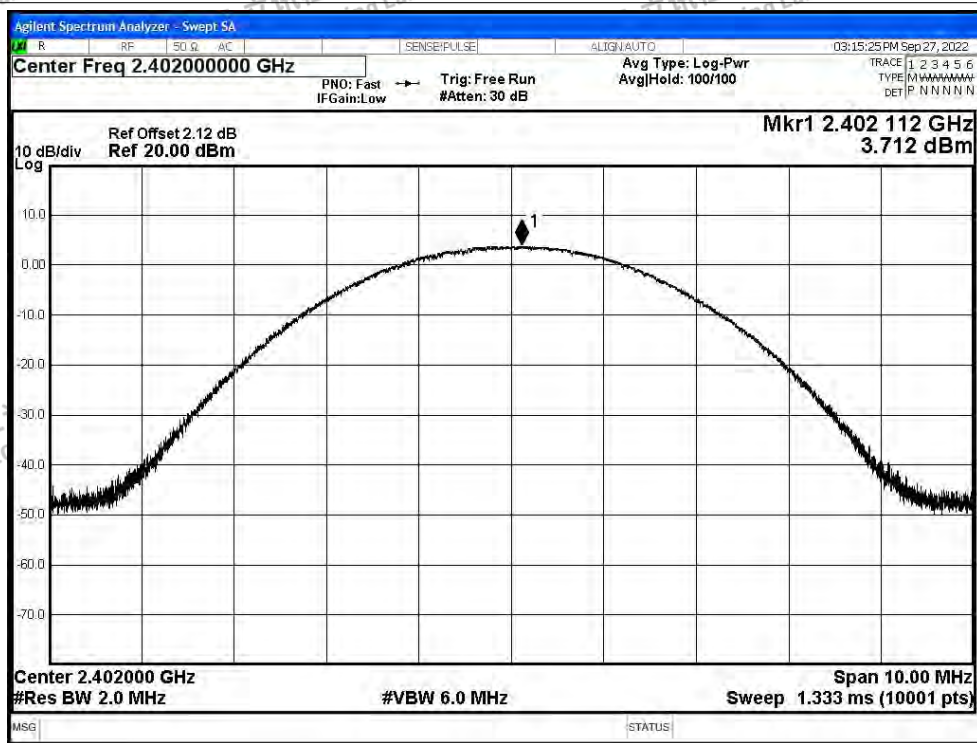


Power NVNT 2-DH5 2480MHz Ant1

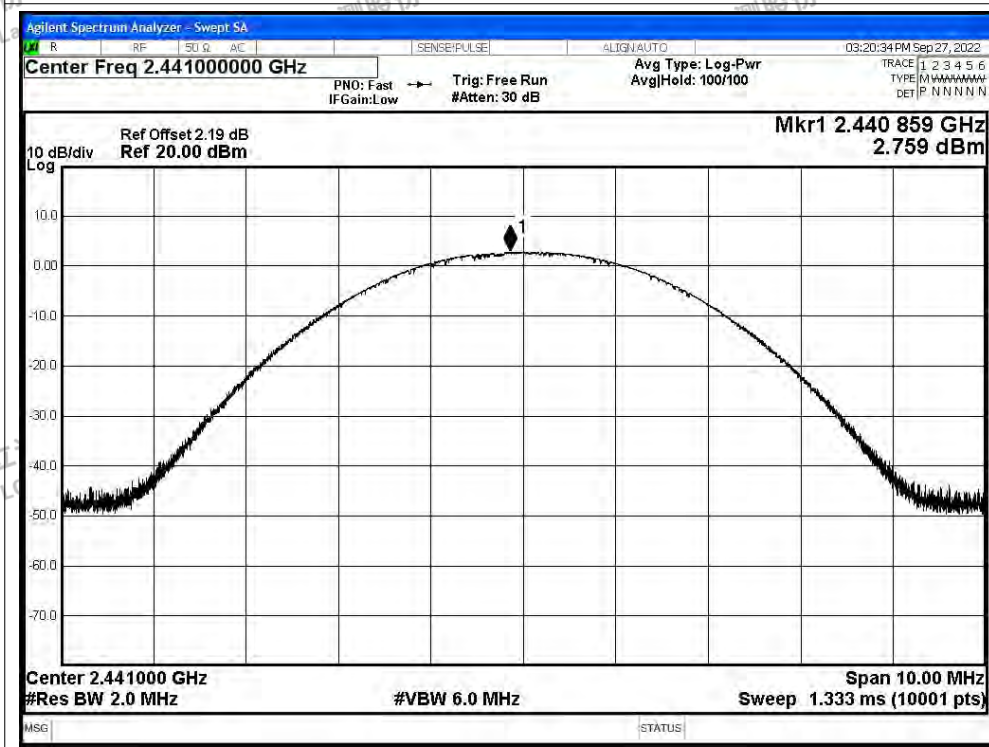




Power NVNT 3-DH5 2402MHz Ant1

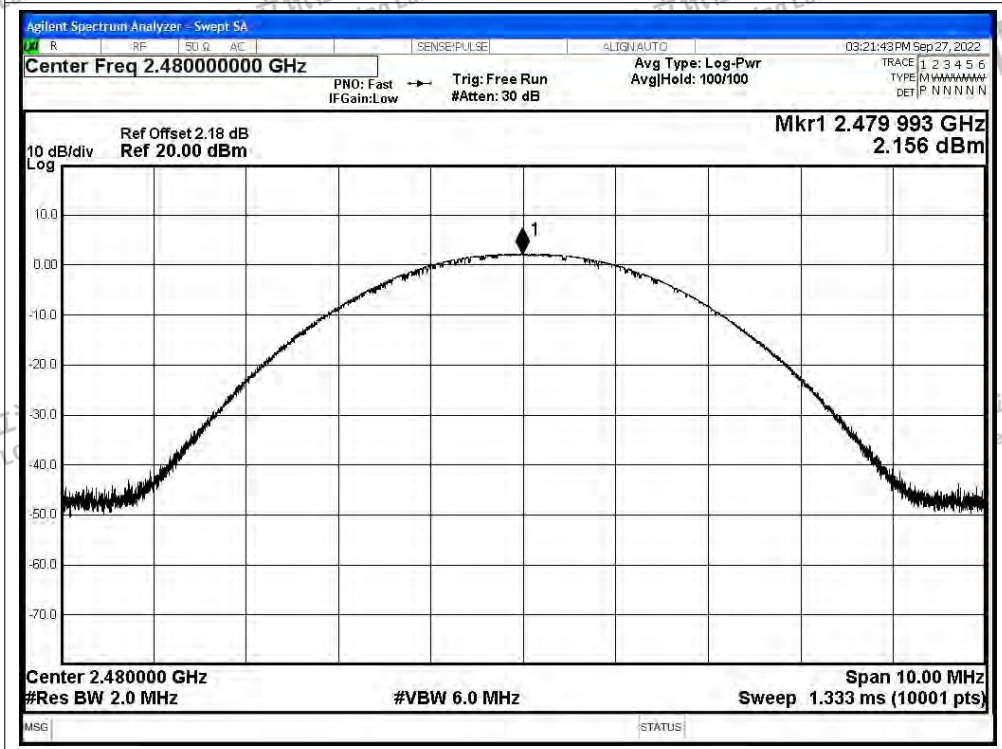


Power NVNT 3-DH5 2441MHz Ant1





Power NVNT 3-DH5 2480MHz Ant1





A.4 Carrier Frequencies Separation

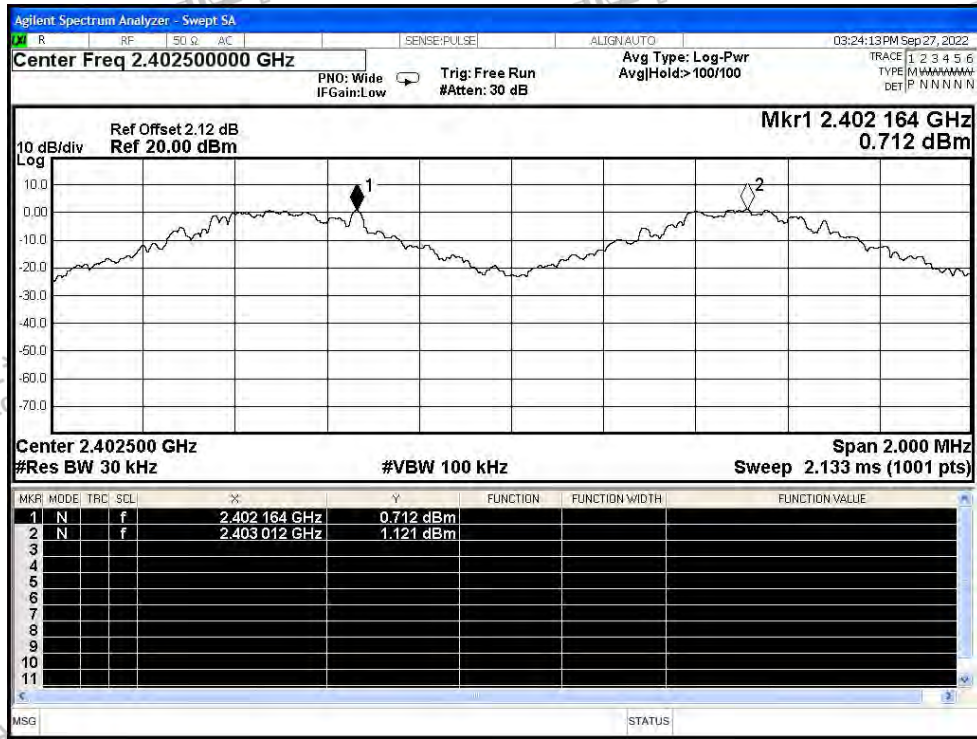
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.164	2403.012	0.848	0.564	Pass
NVNT	2-DH5	Ant1	2402.022	2403.026	1.004	0.86	Pass
NVNT	3-DH5	Ant1	2402.038	2403.17	1.132	0.848	Pass



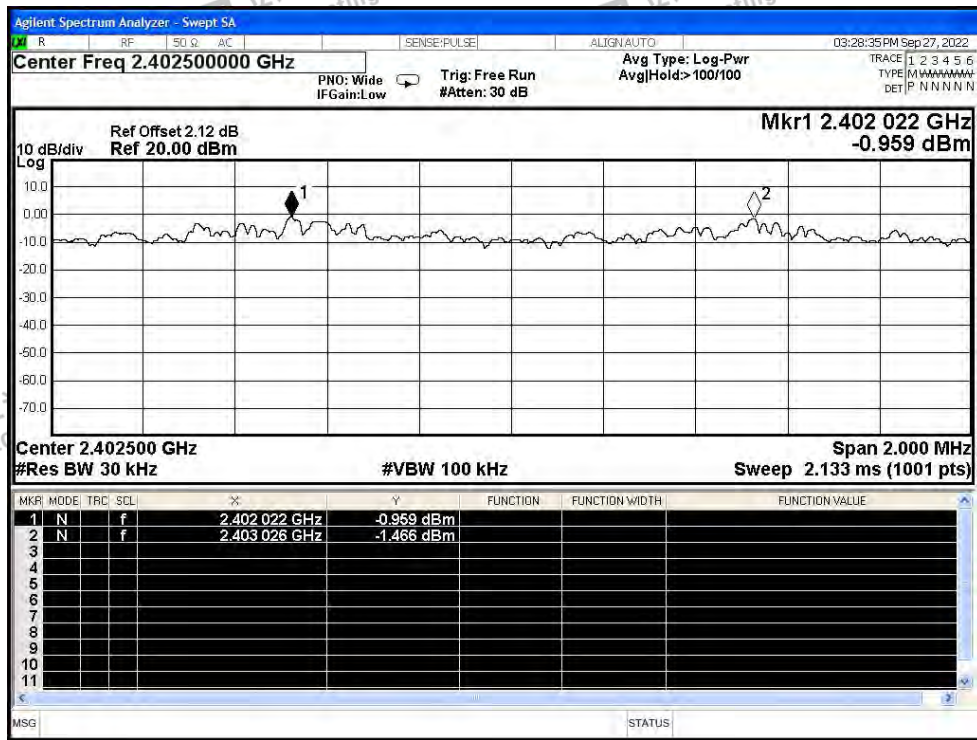


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1

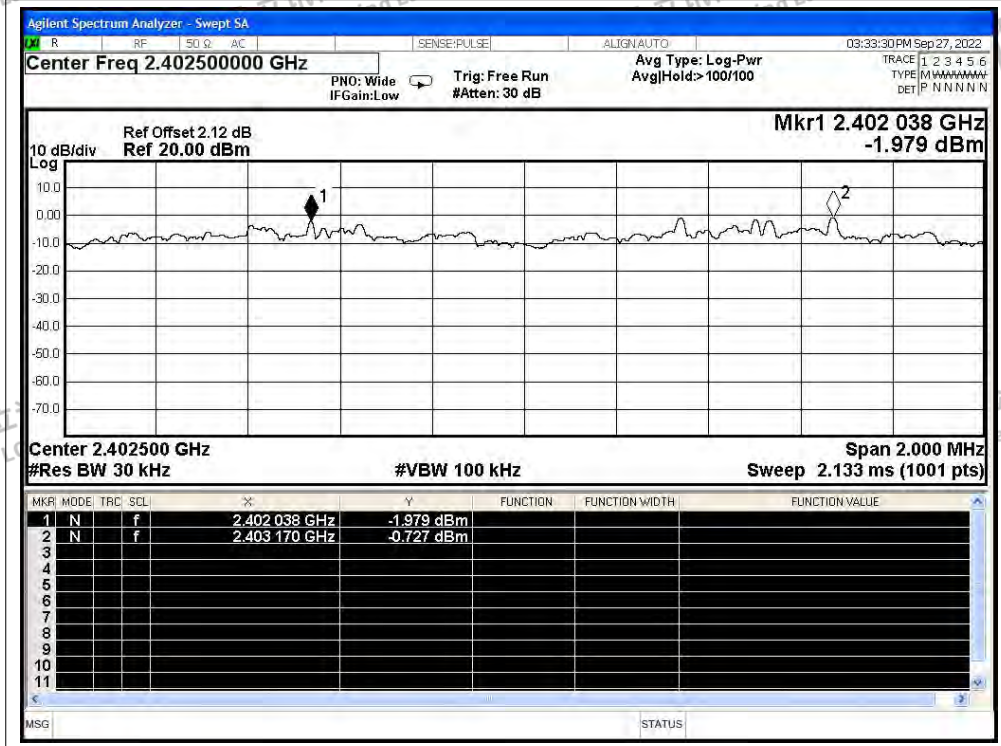


CFS NVNT 2-DH5 2402MHz Ant1





CFS NVNT 3-DH5 2402MHz Ant1





A.5 Dwell Time

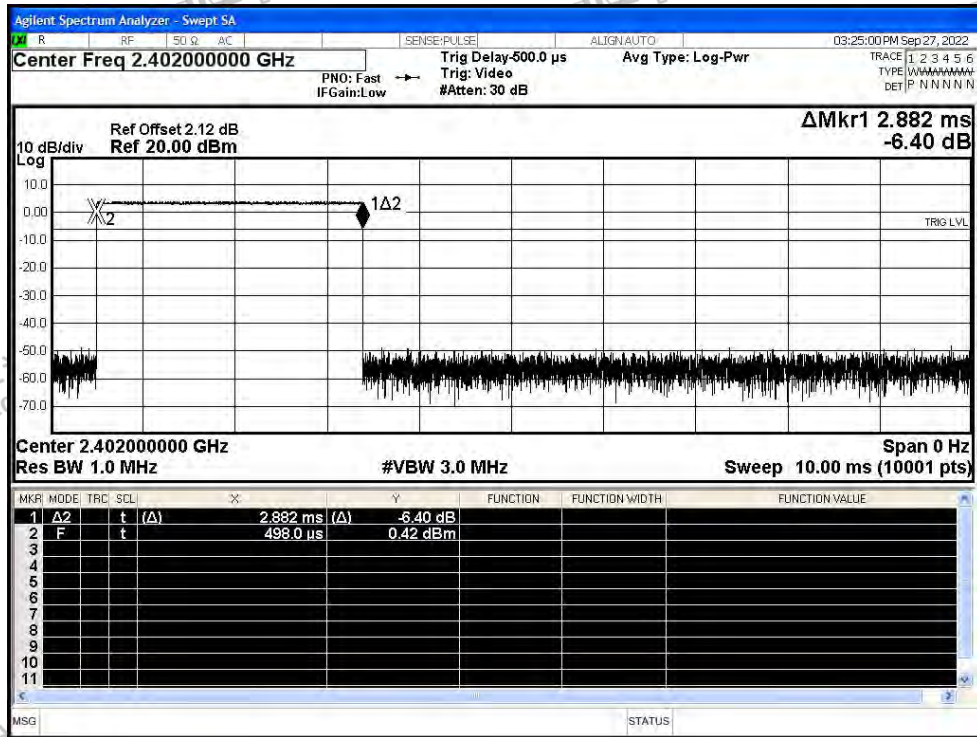
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.882	293.964	102	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.885	328.89	114	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.886	317.46	110	31600	400	Pass



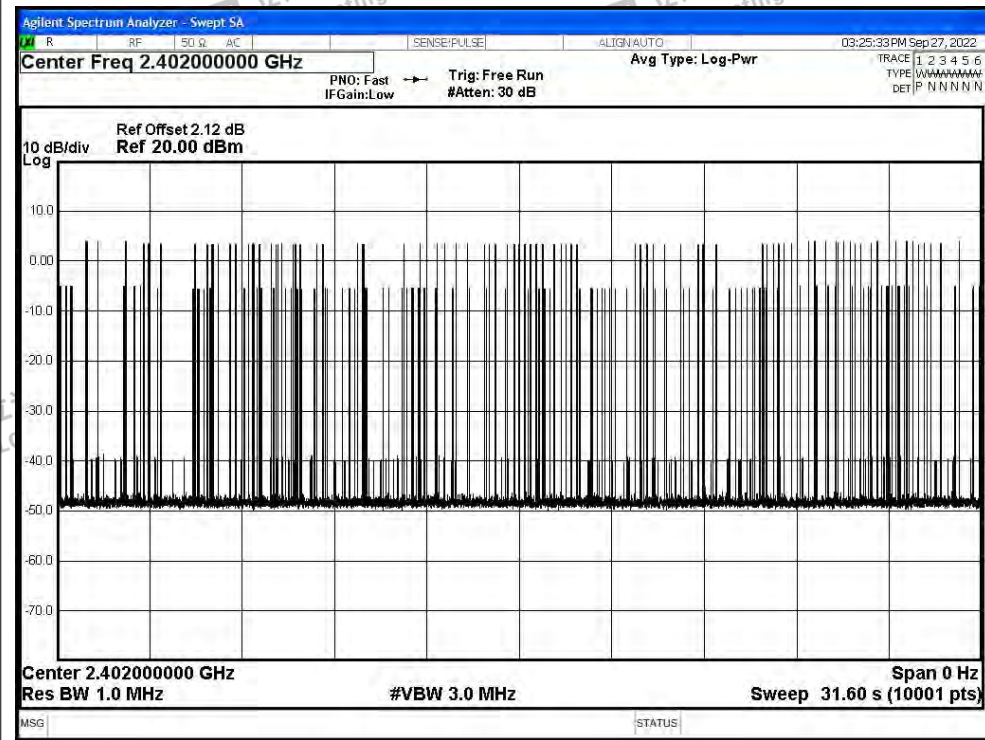


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

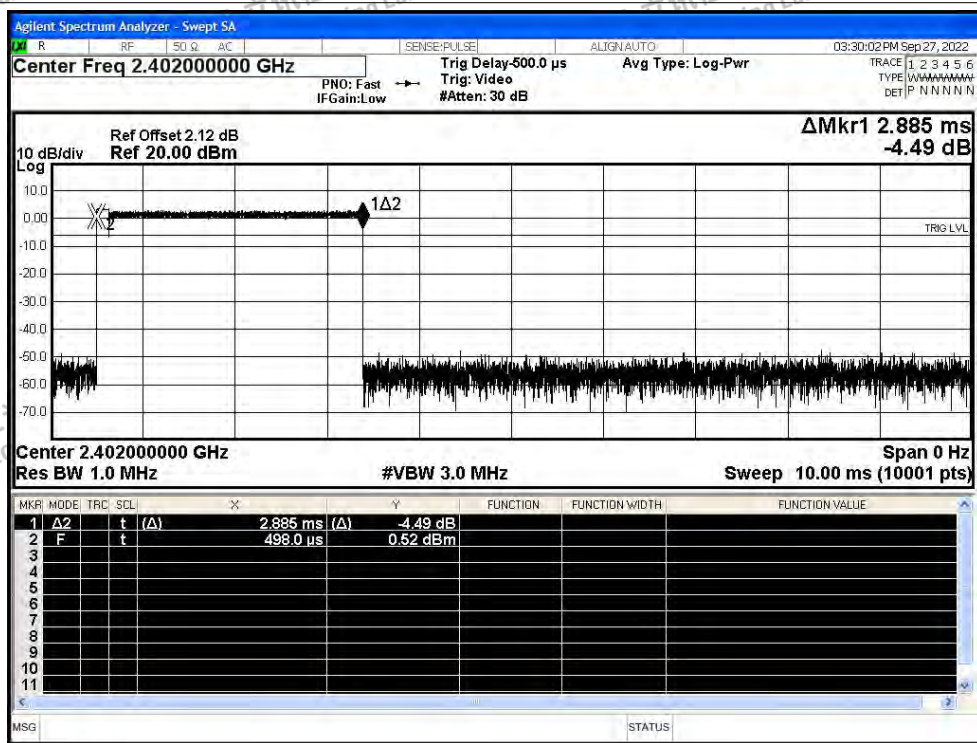


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

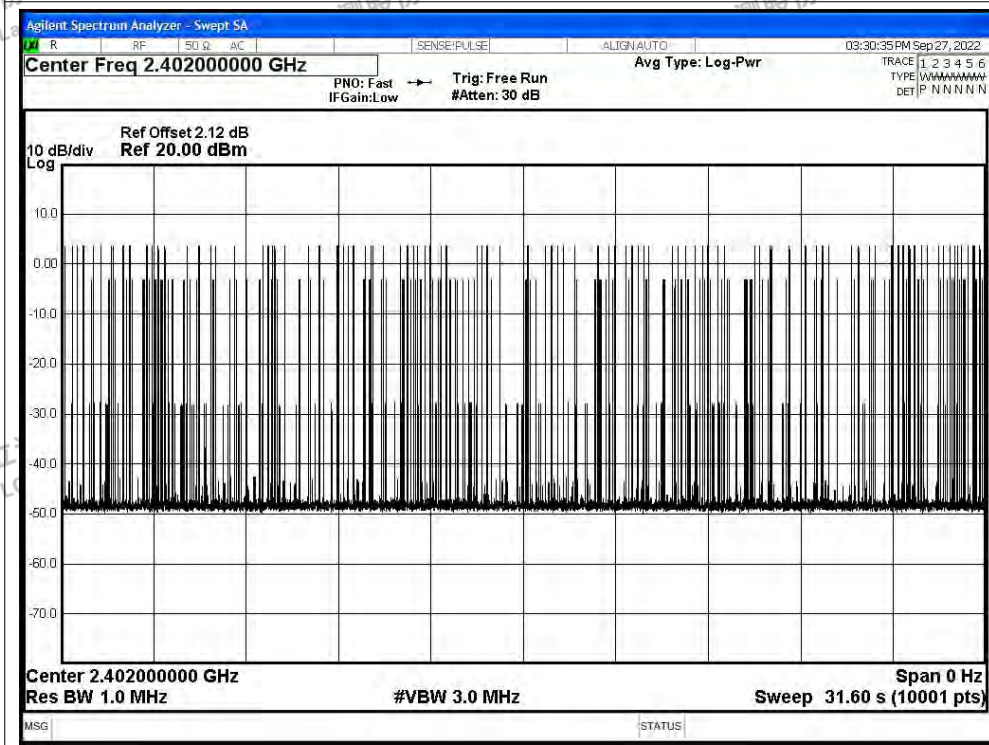




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

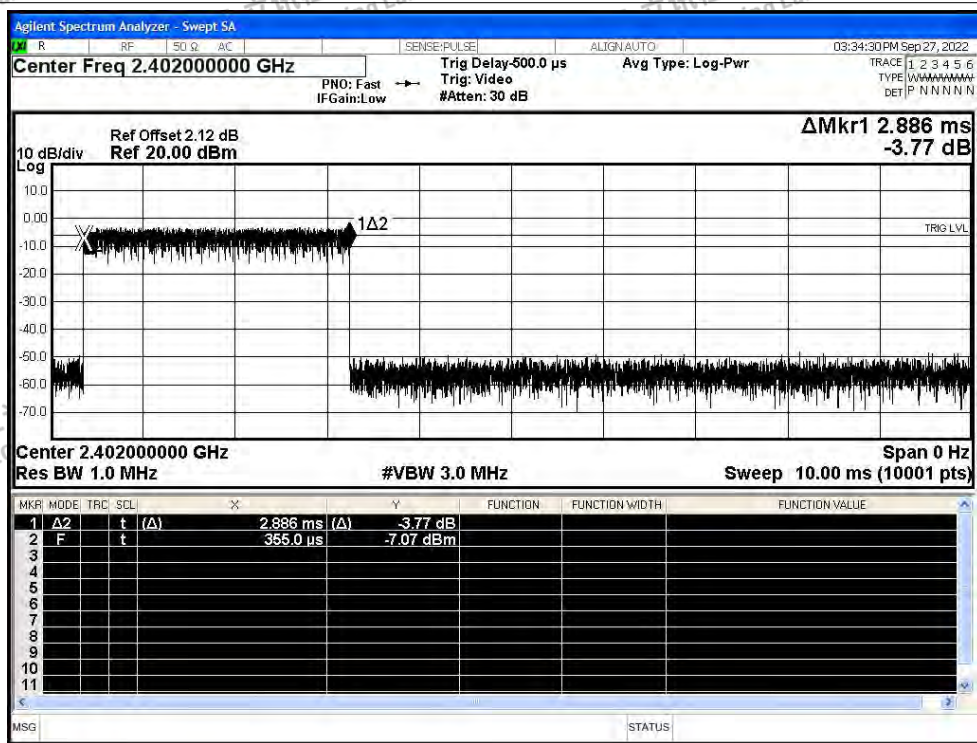


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

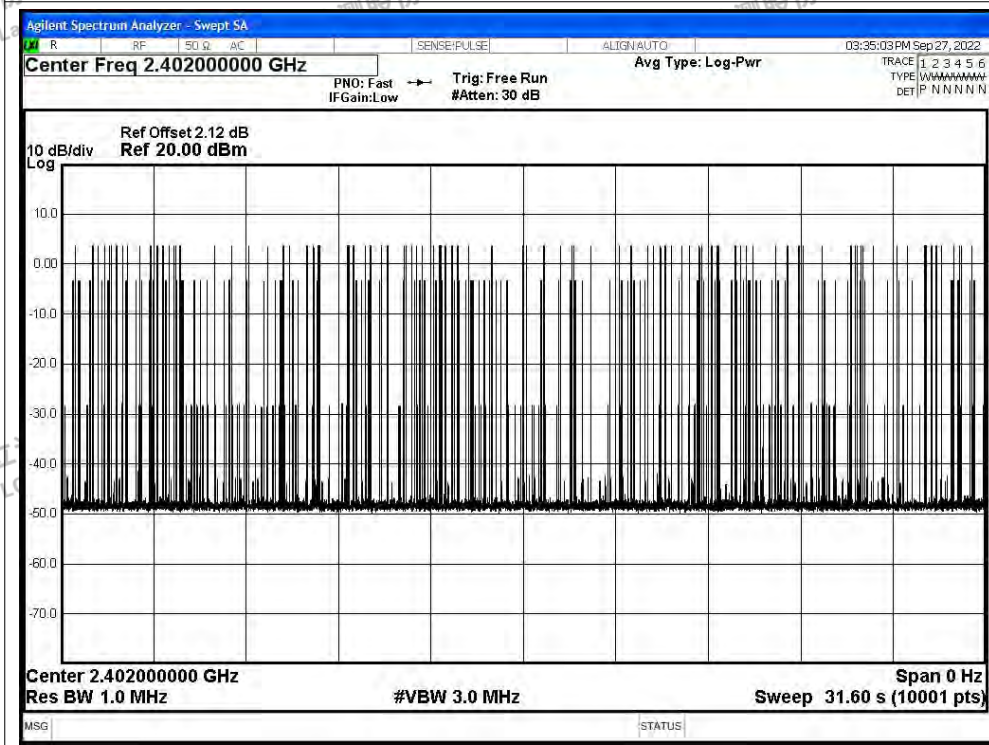




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated





A.6 Number of Hopping Channel

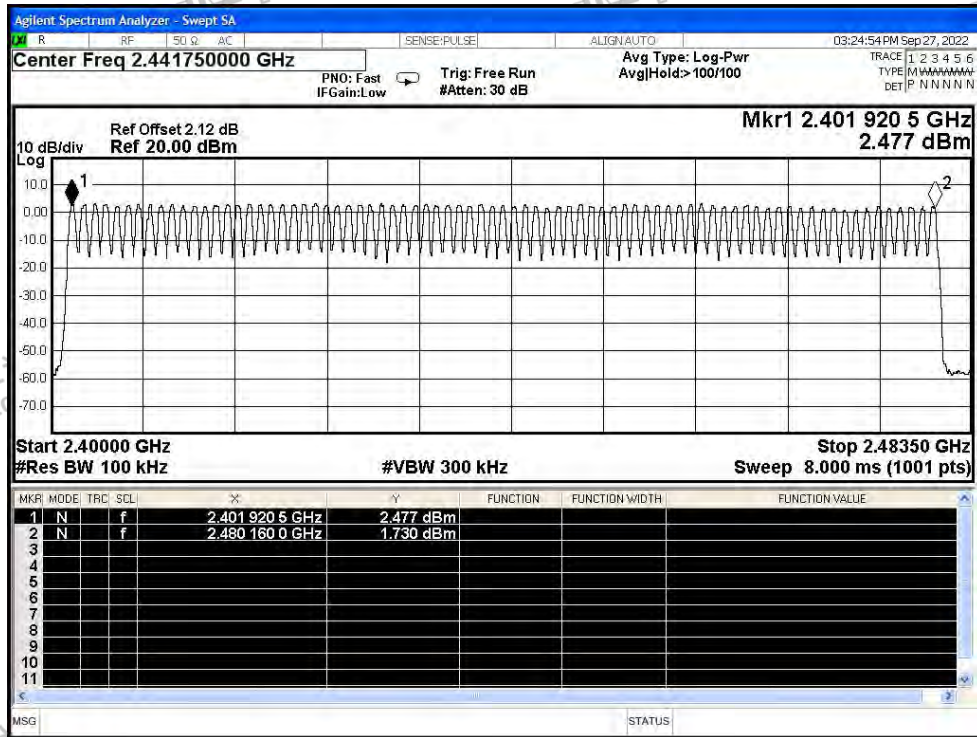
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



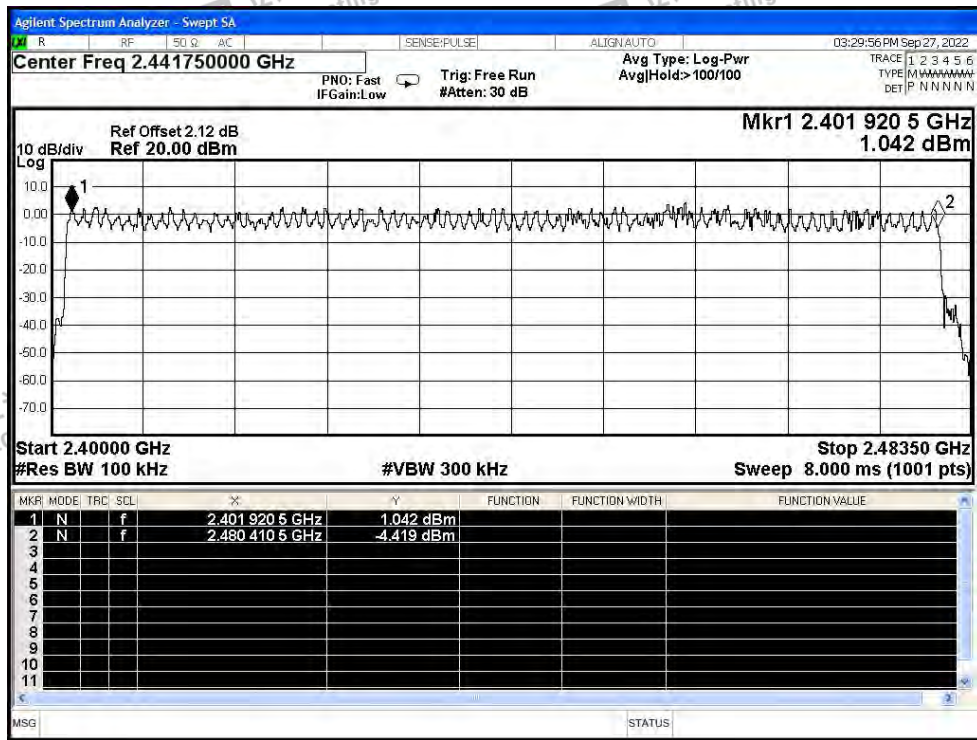


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1

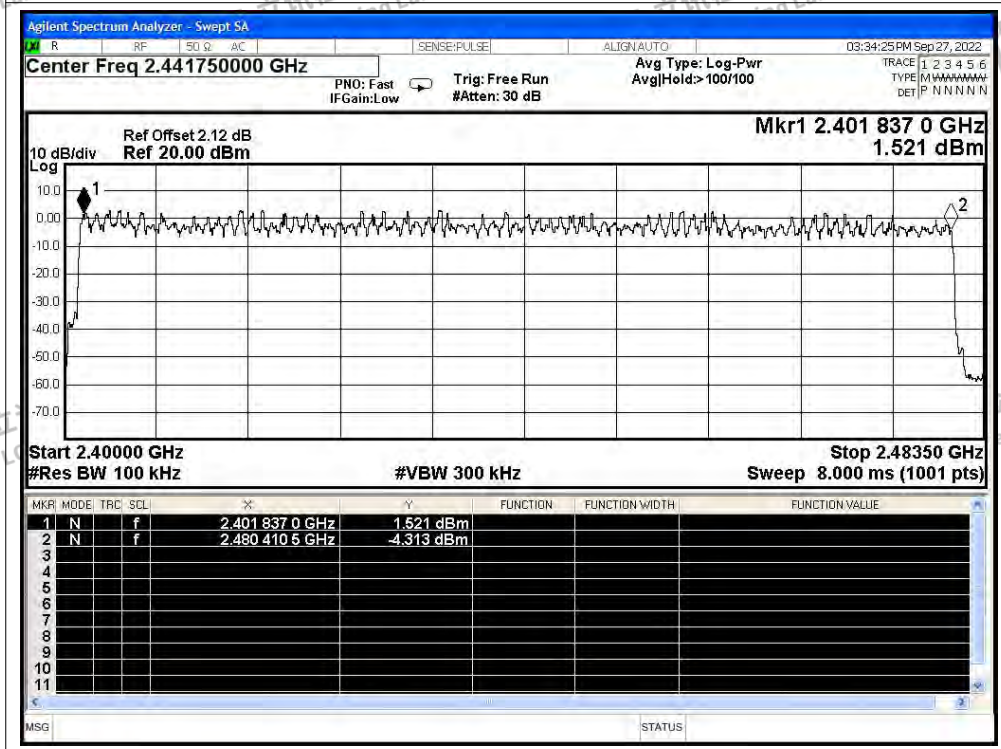


Hopping No. NVNT 2-DH5 2402MHz Ant1





Hopping No. NVNT 3-DH5 2402MHz Ant1





A.7 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-59.5	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-59.11	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-52.55	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-56.15	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-52.91	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-56.8	-20	Pass

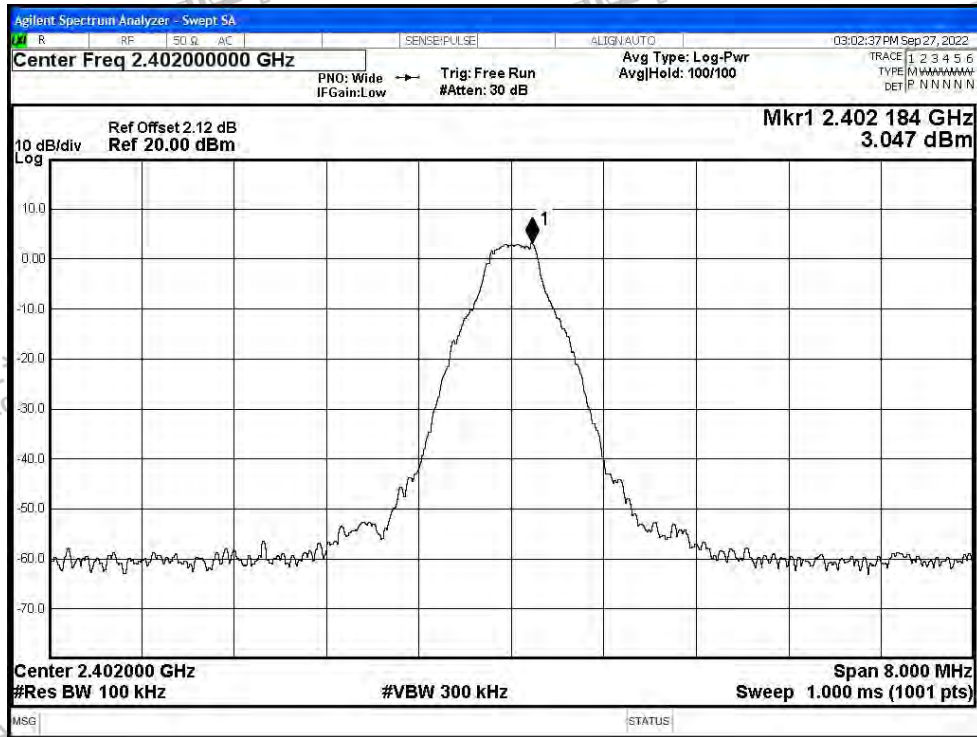


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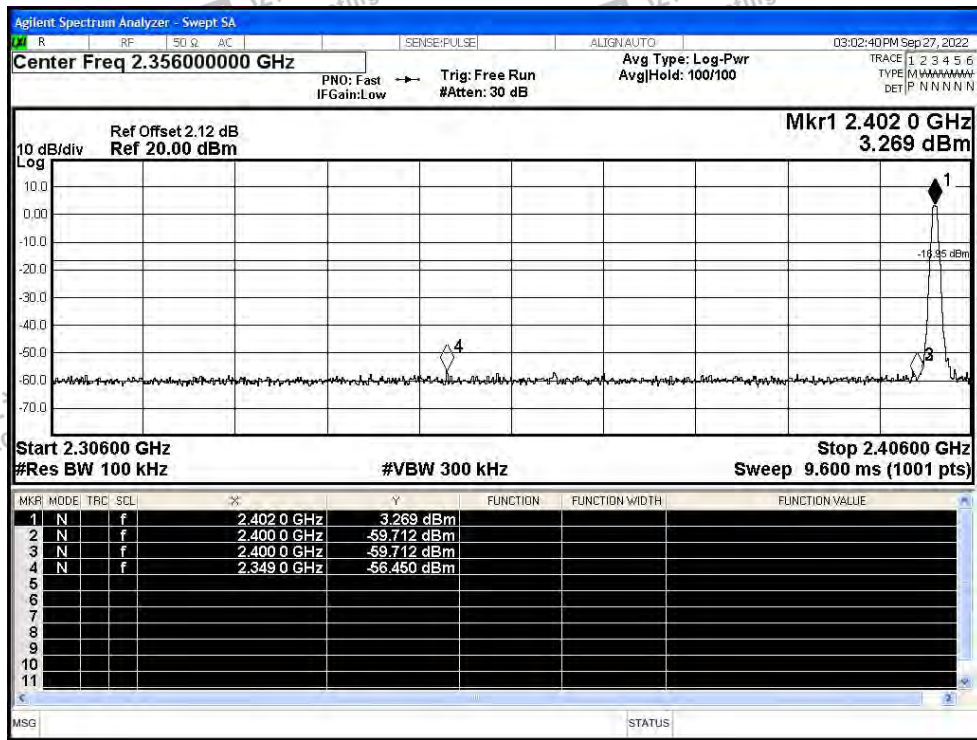


Test Graphs

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

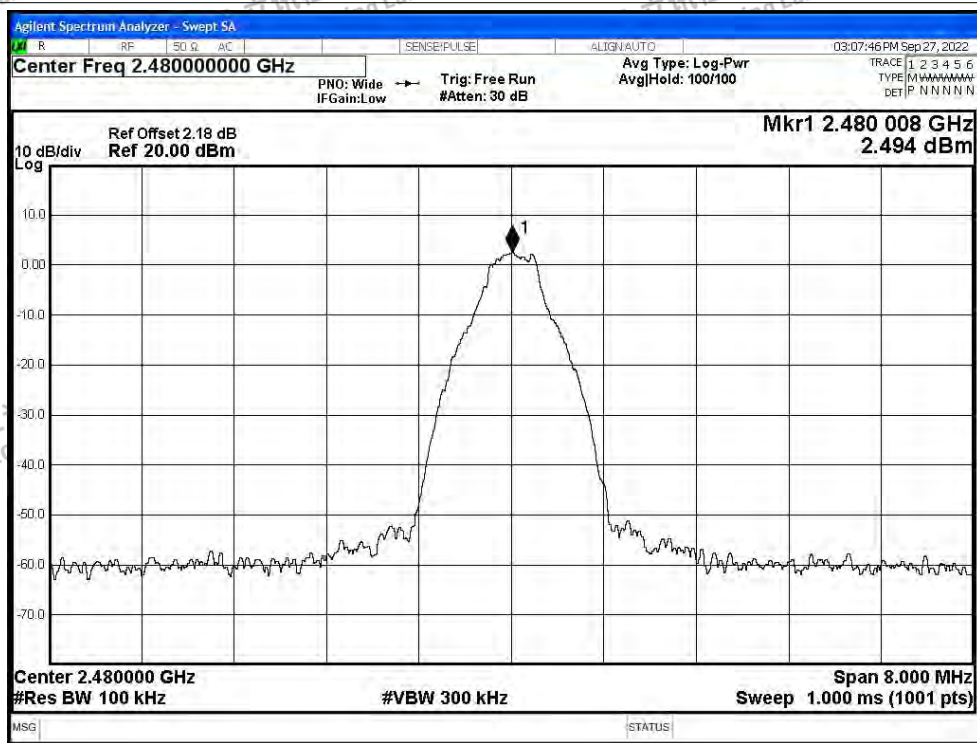


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

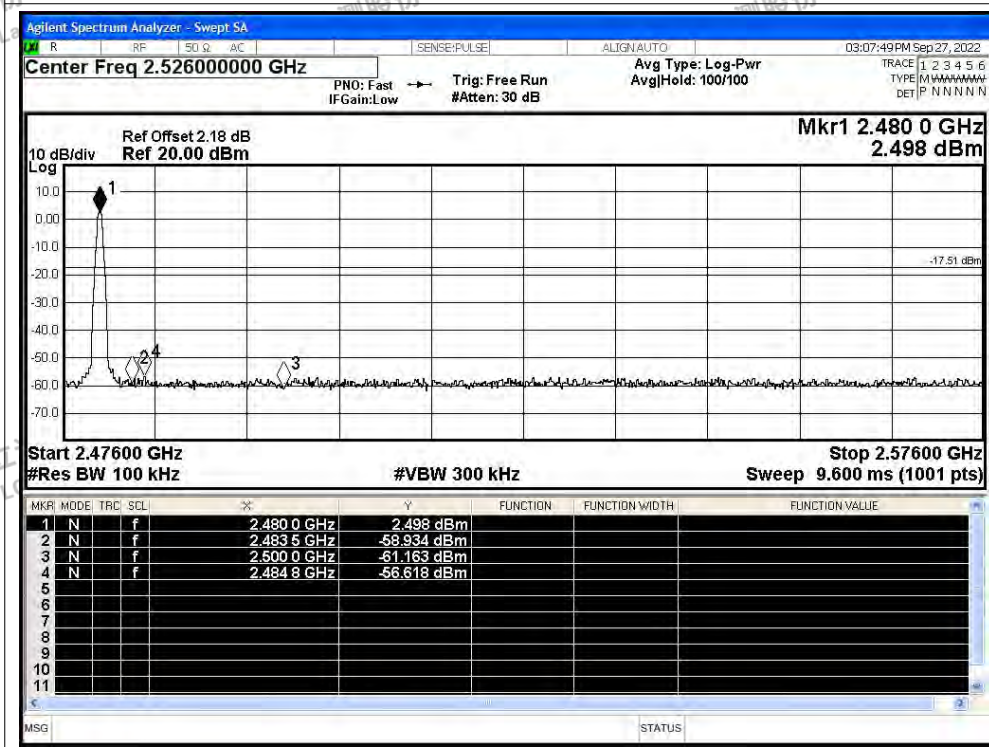




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

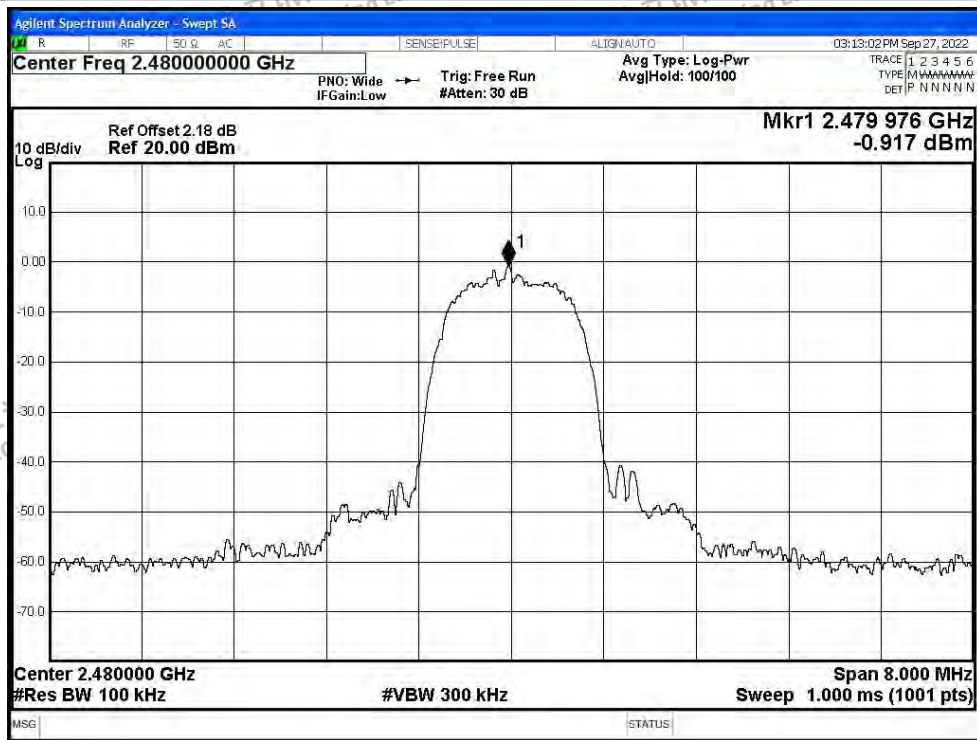


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

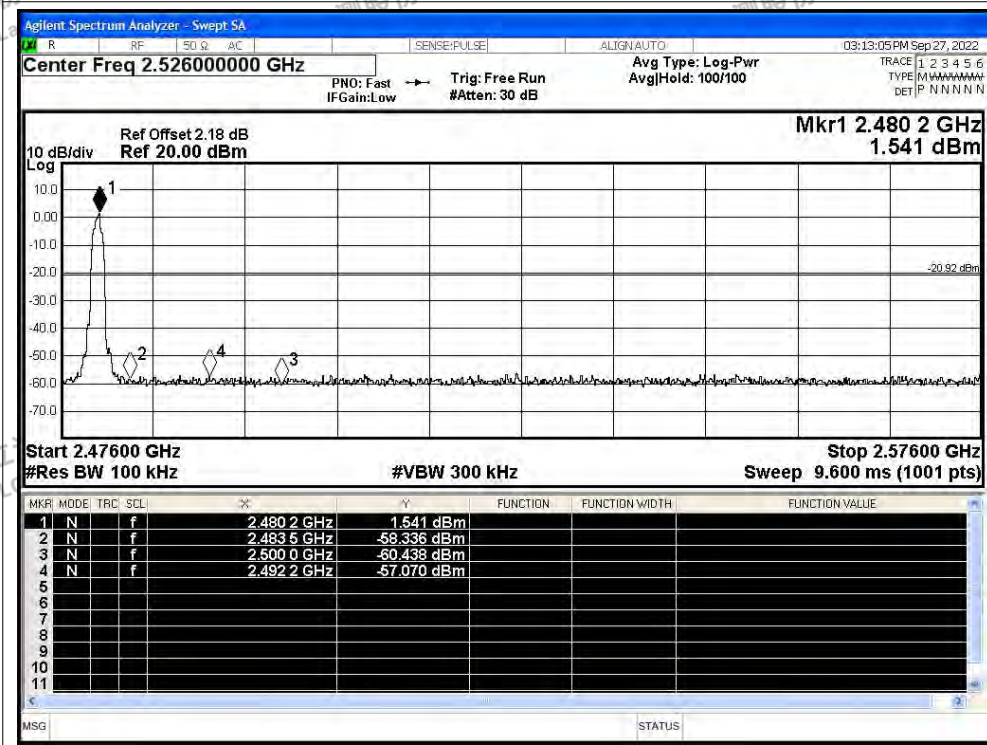




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

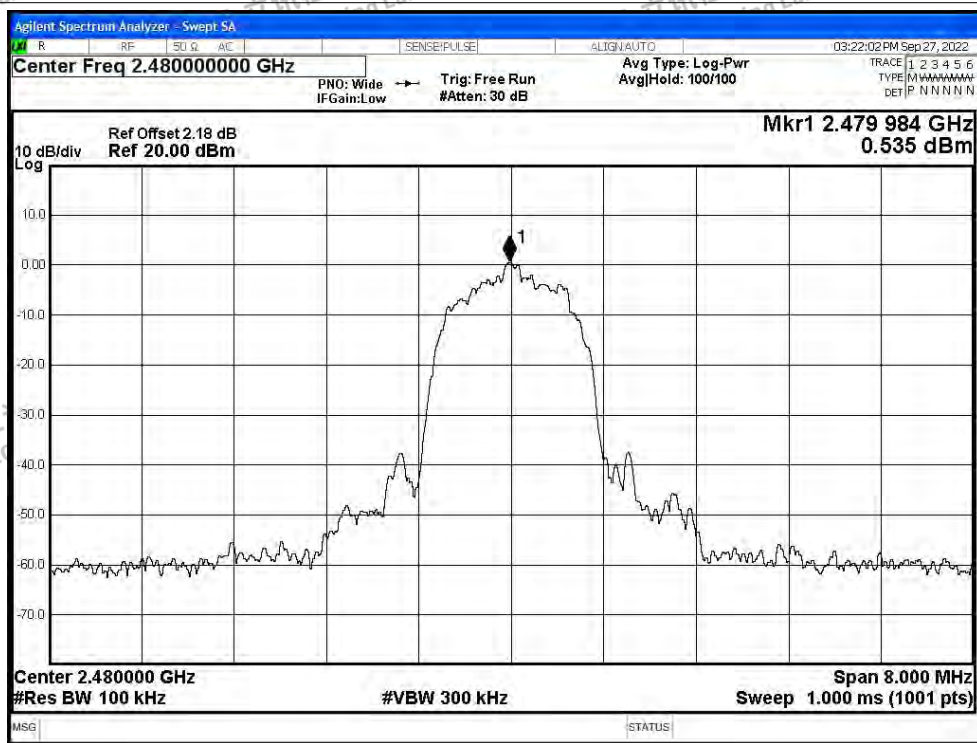


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

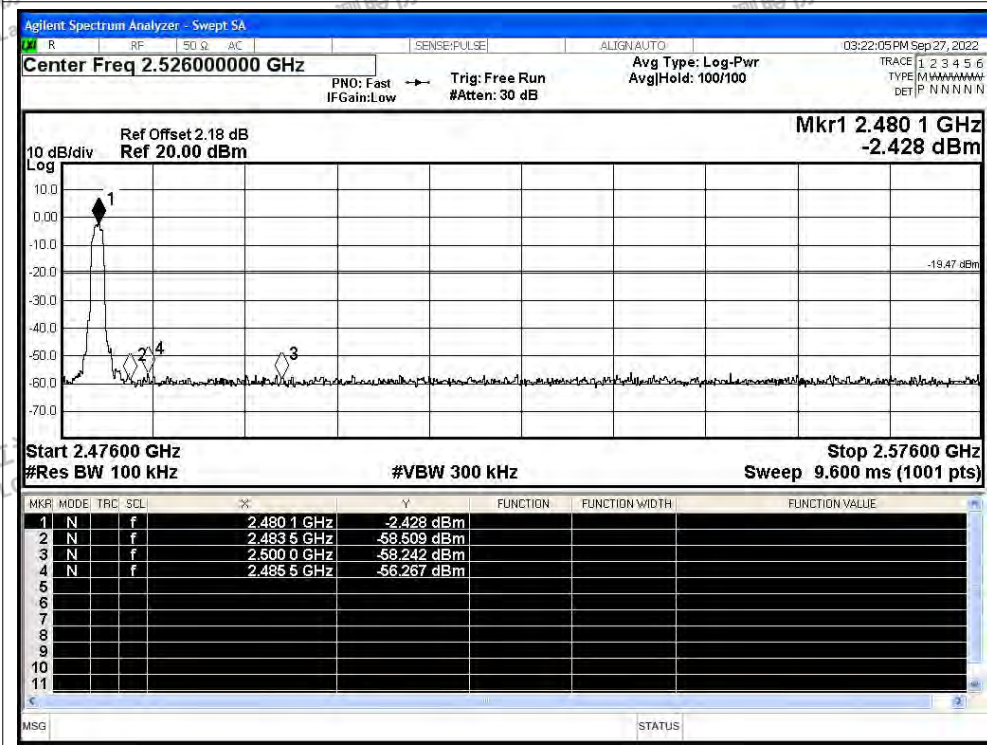




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission





(Hopping)

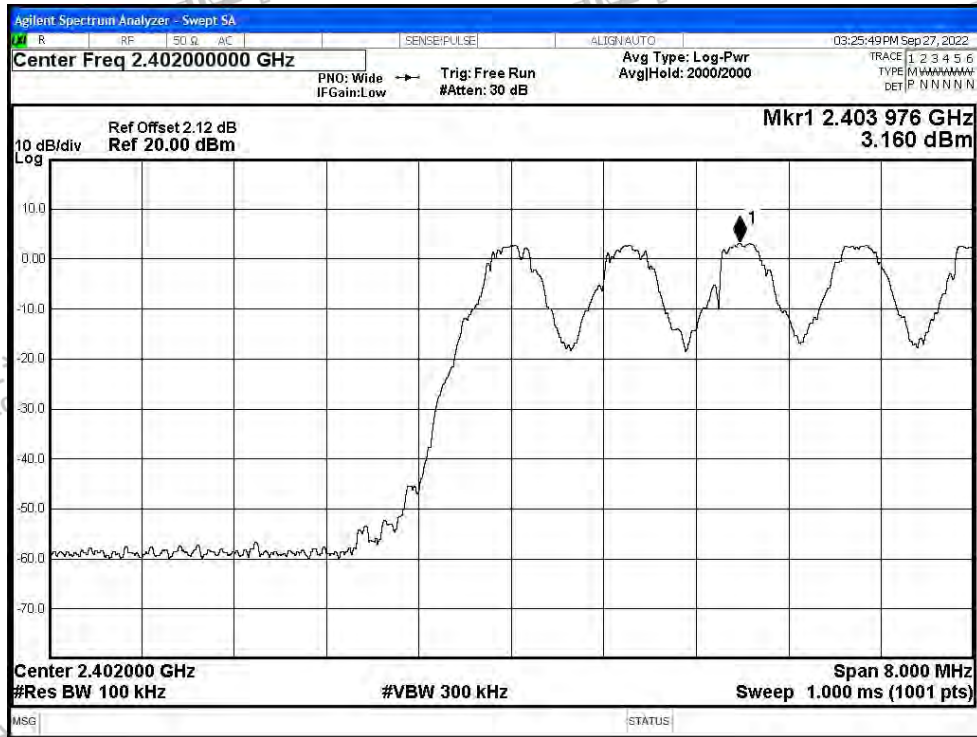
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-59.56	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-57.97	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-57.73	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-57.83	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-57.29	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-57.46	-20	Pass



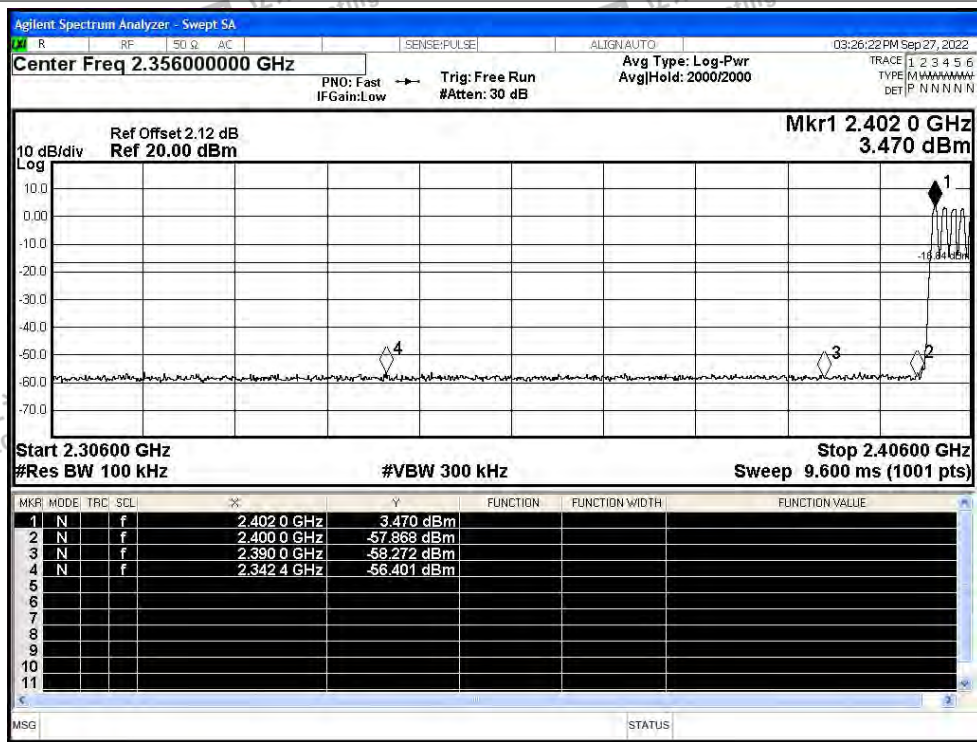


Test Graphs

Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref

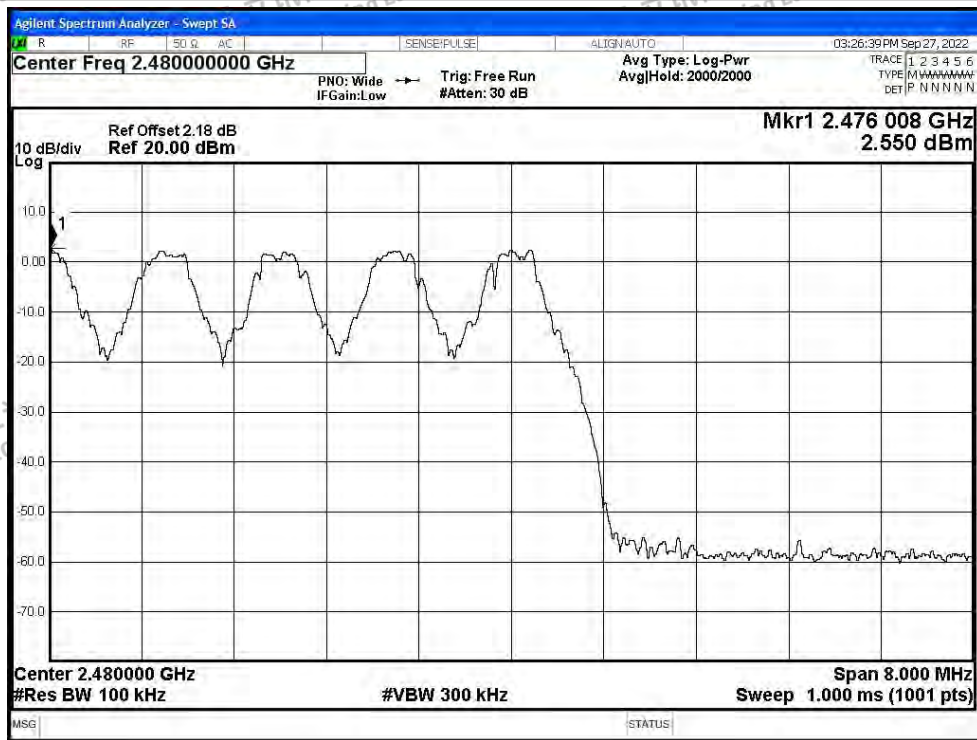


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

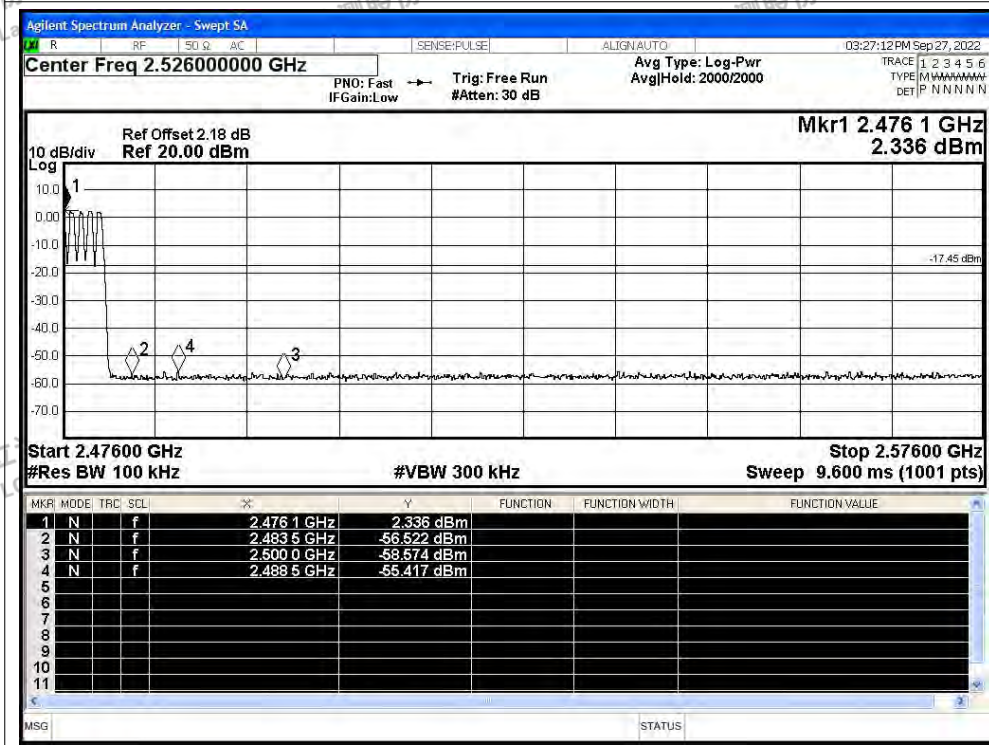




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

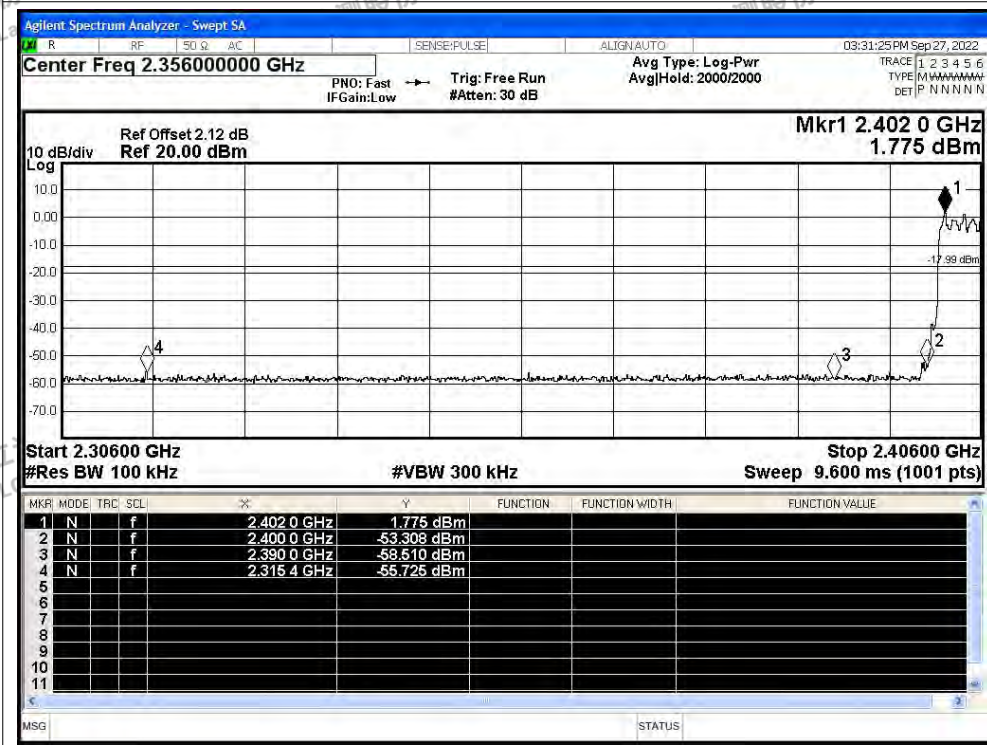




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

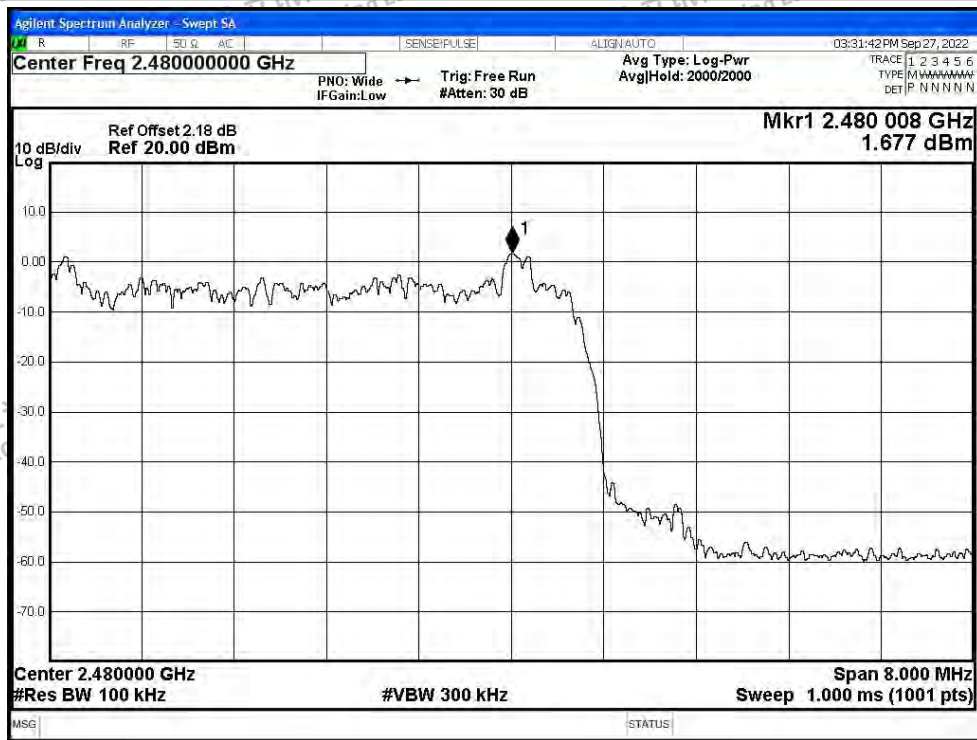


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

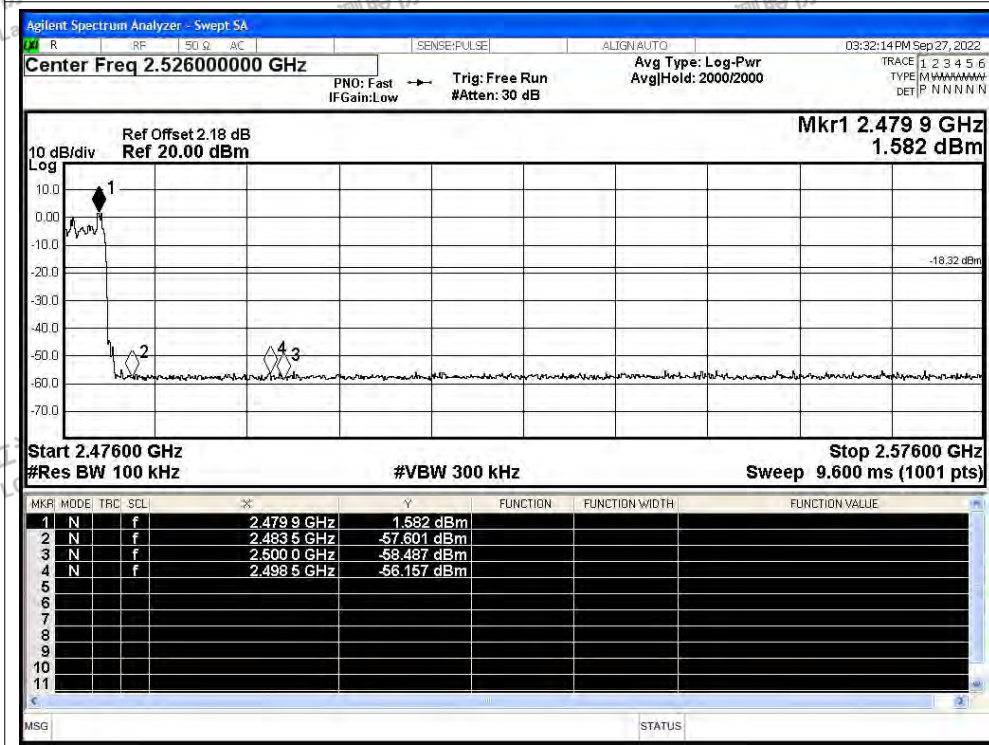




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission

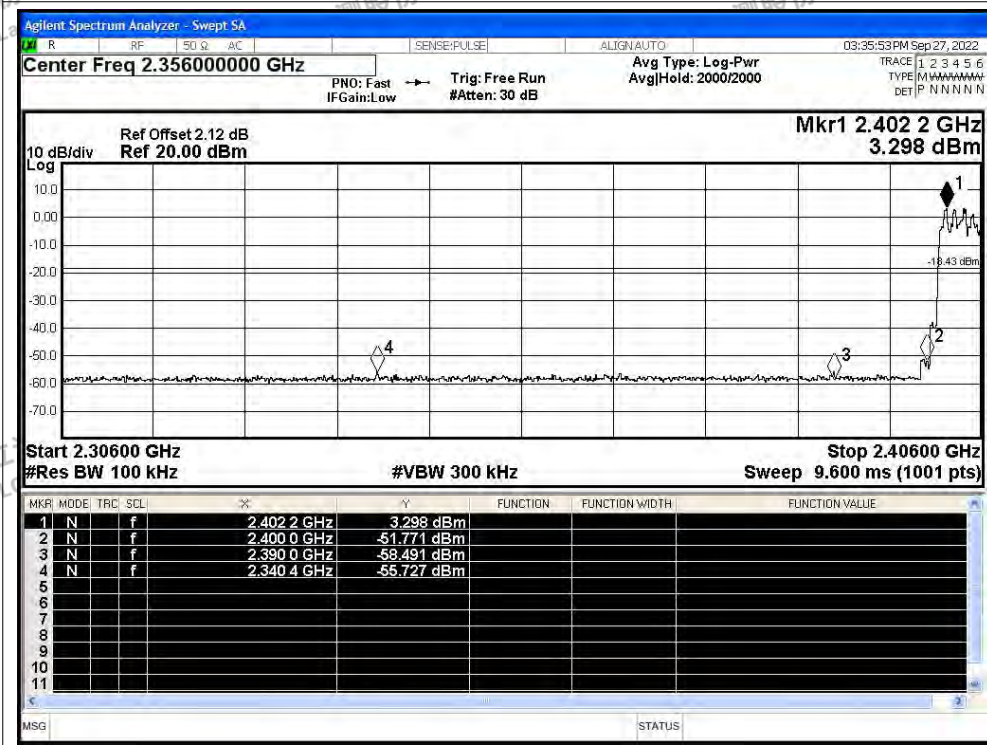




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

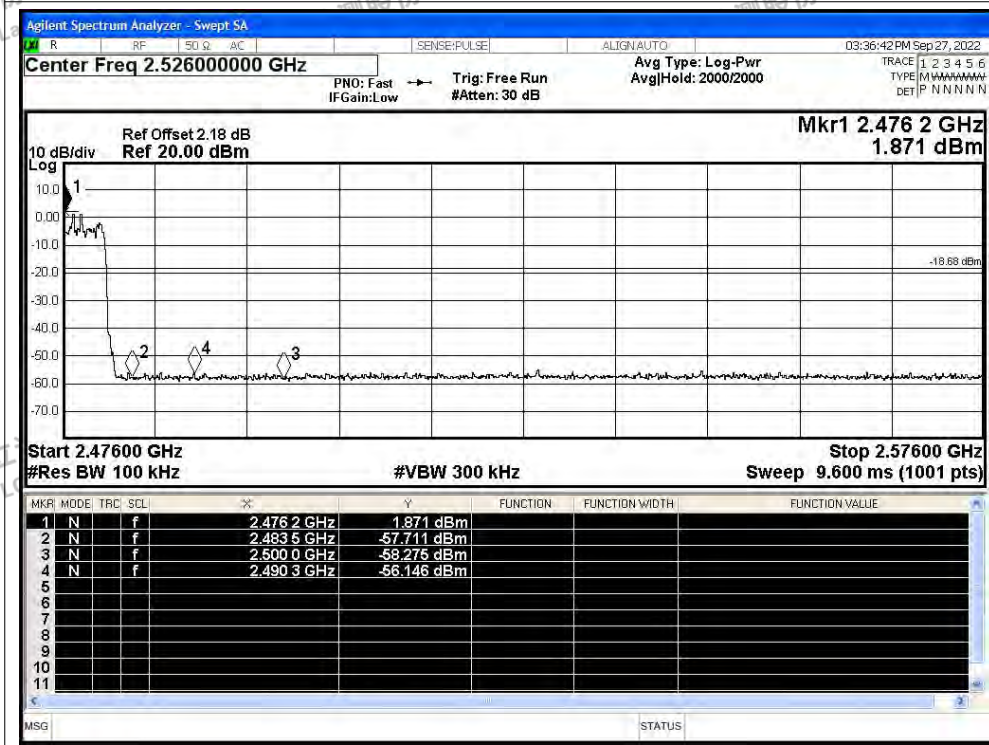




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Emission





A.8 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-58.87	-20	Pass
NVNT	1-DH5	2441	Ant1	-58.06	-20	Pass
NVNT	1-DH5	2480	Ant1	-57.89	-20	Pass
NVNT	2-DH5	2402	Ant1	-57.61	-20	Pass
NVNT	2-DH5	2441	Ant1	-56.95	-20	Pass
NVNT	2-DH5	2480	Ant1	-56.84	-20	Pass
NVNT	3-DH5	2402	Ant1	-58.77	-20	Pass
NVNT	3-DH5	2441	Ant1	-58.45	-20	Pass
NVNT	3-DH5	2480	Ant1	-57.04	-20	Pass

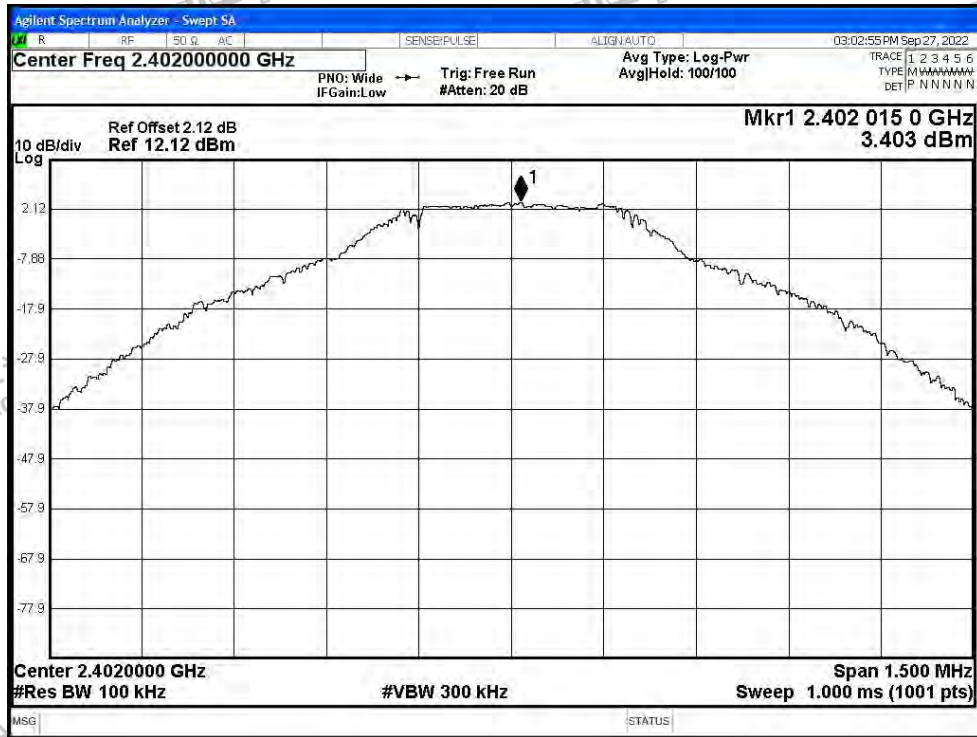


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 Scan code to check authenticity

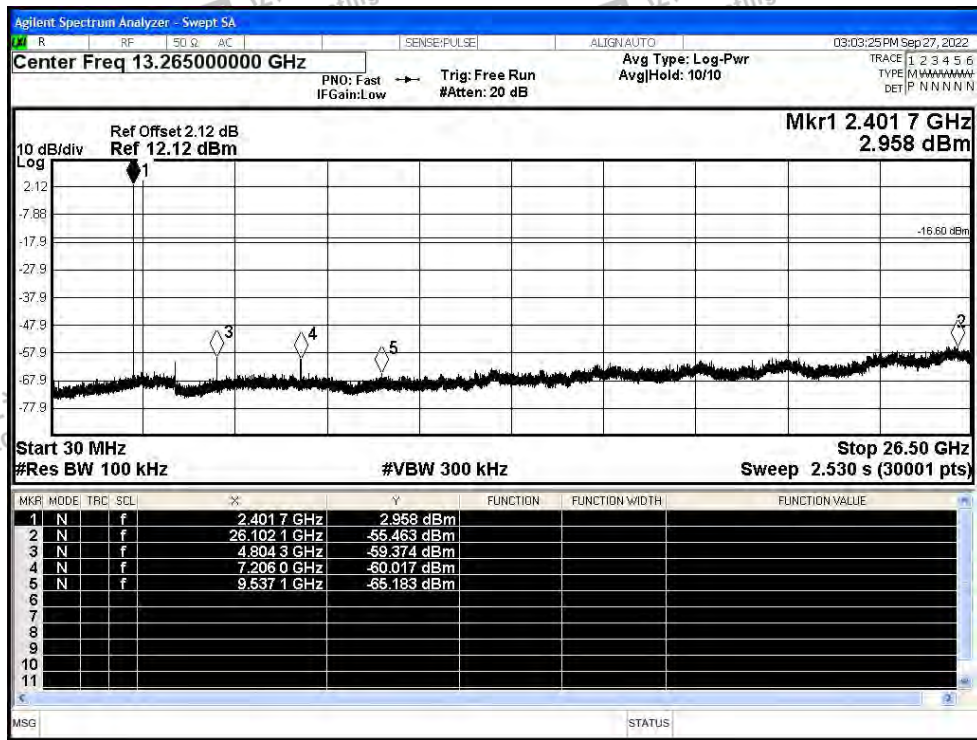


Test Graphs

Tx: Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx: Spurious NVNT 1-DH5 2402MHz Ant1 Emission

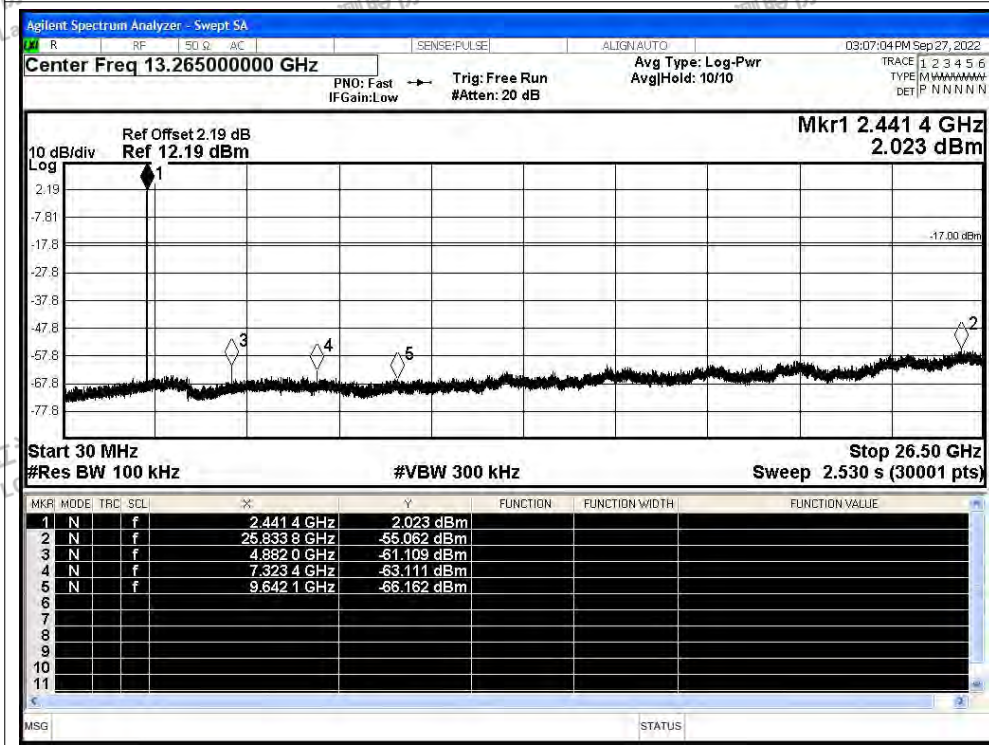




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

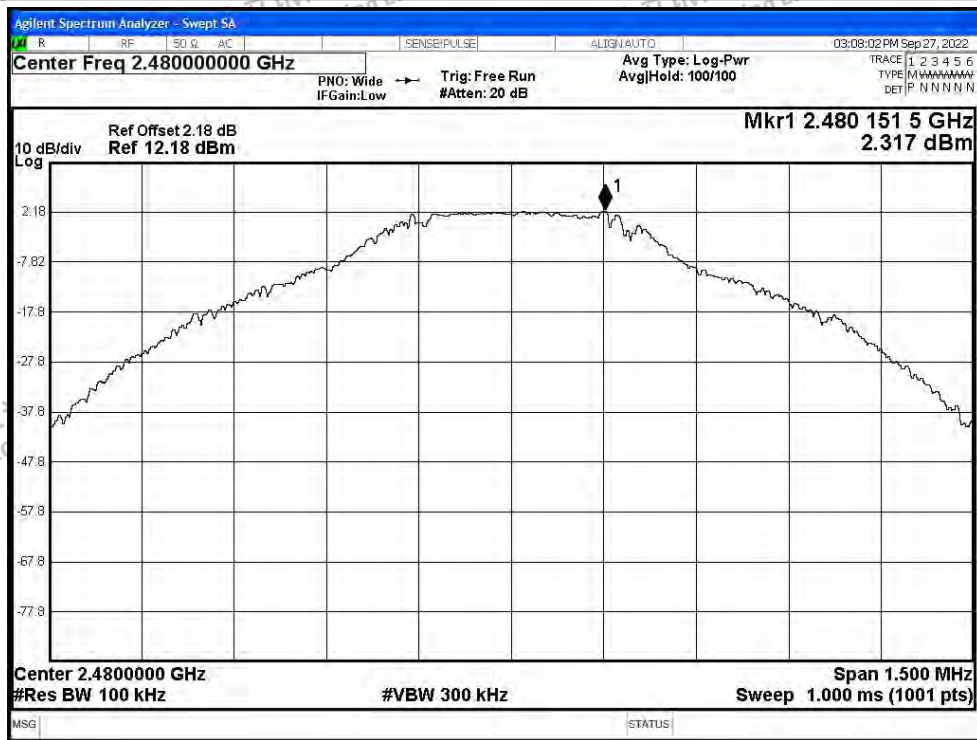


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

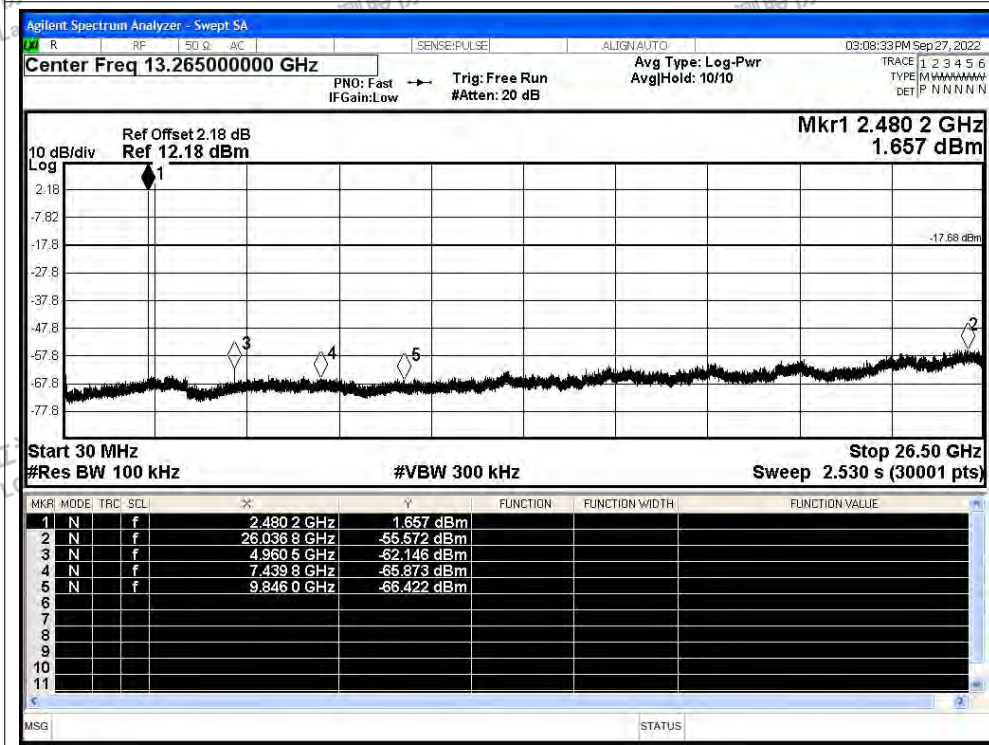




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

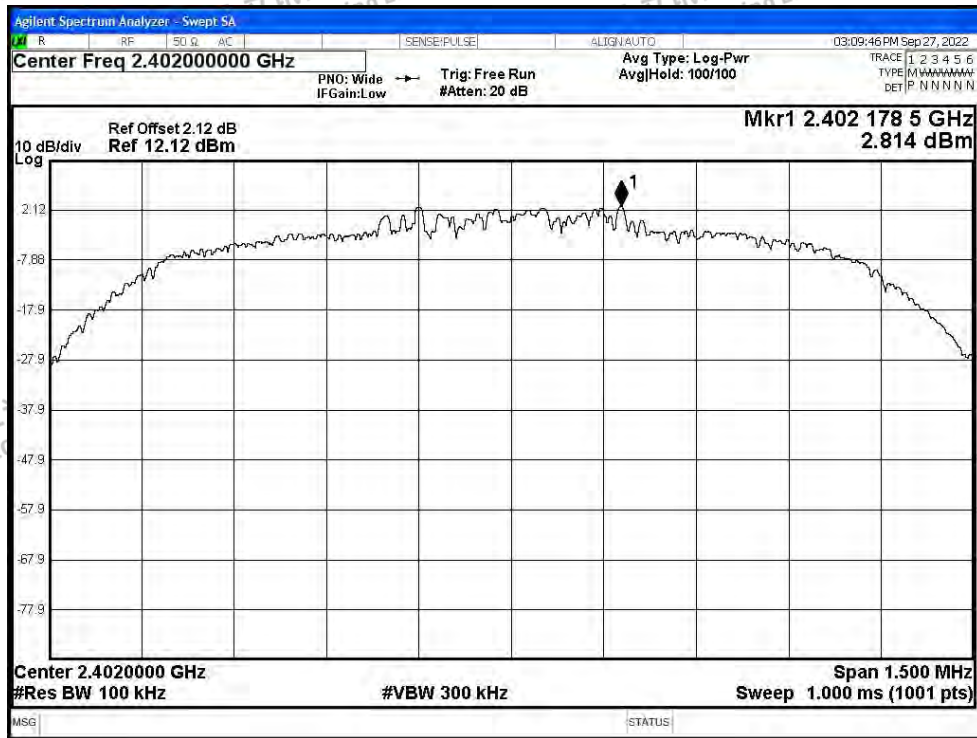


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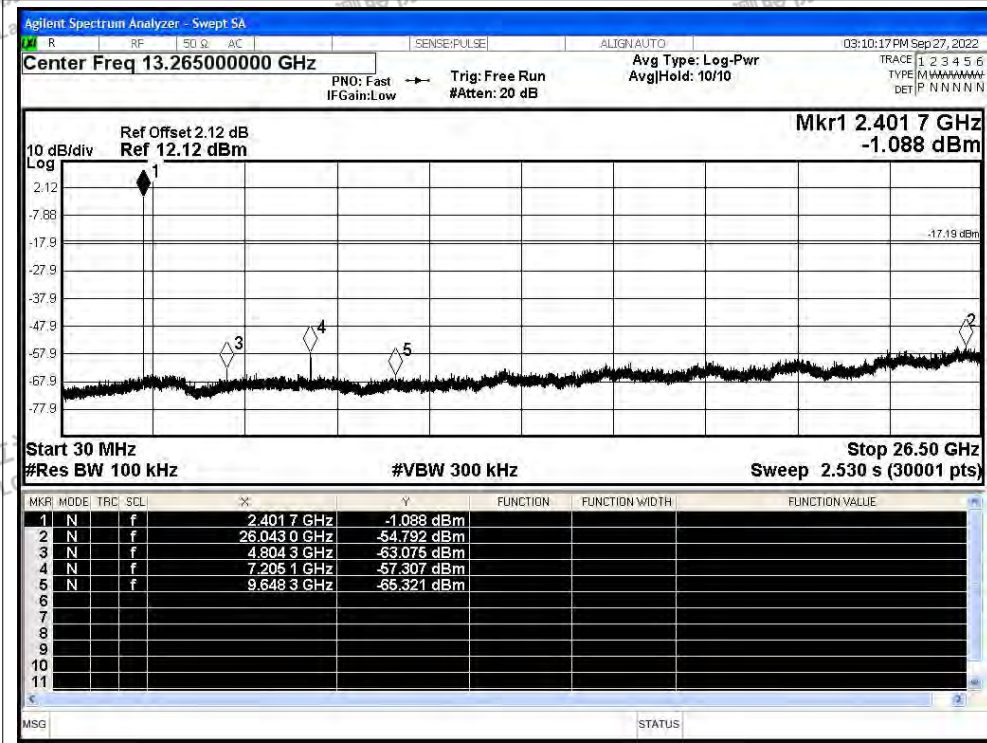




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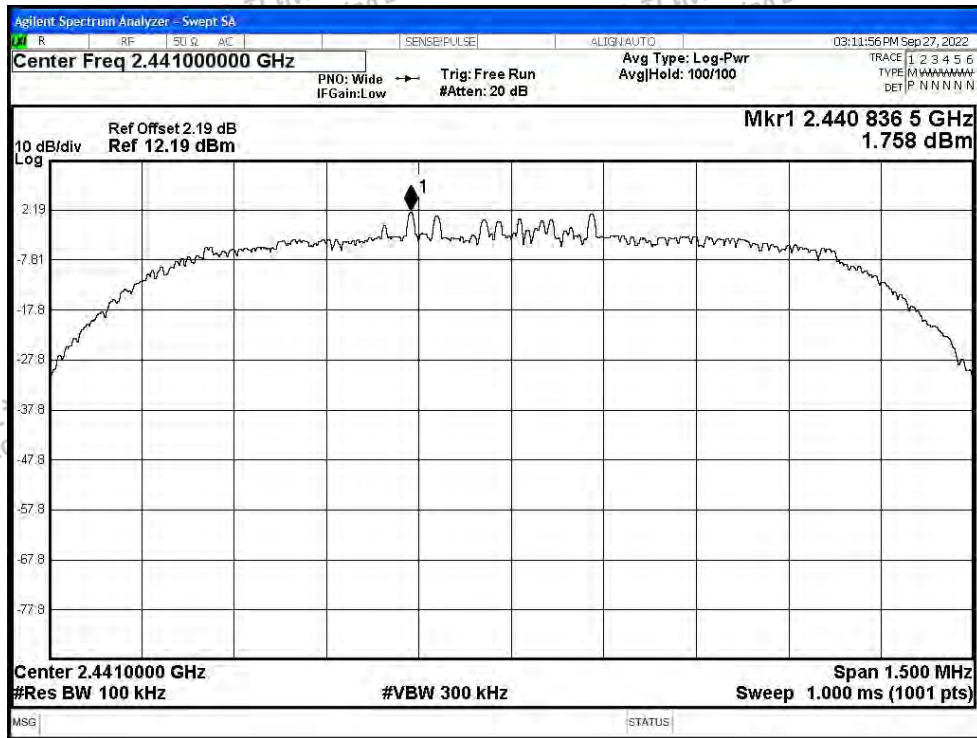


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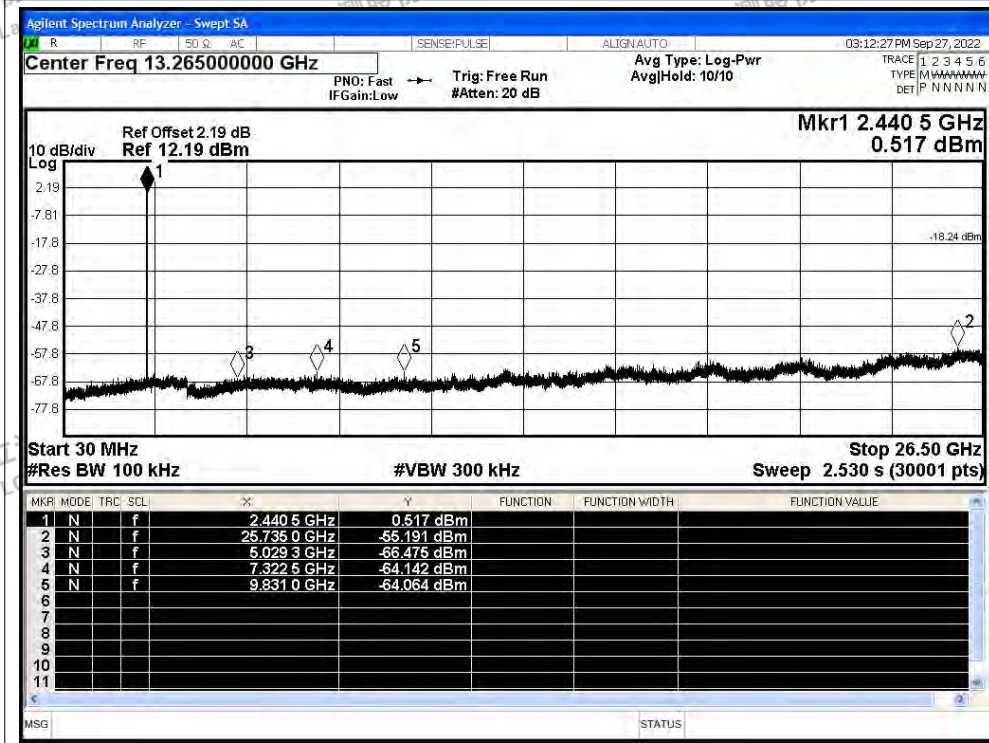




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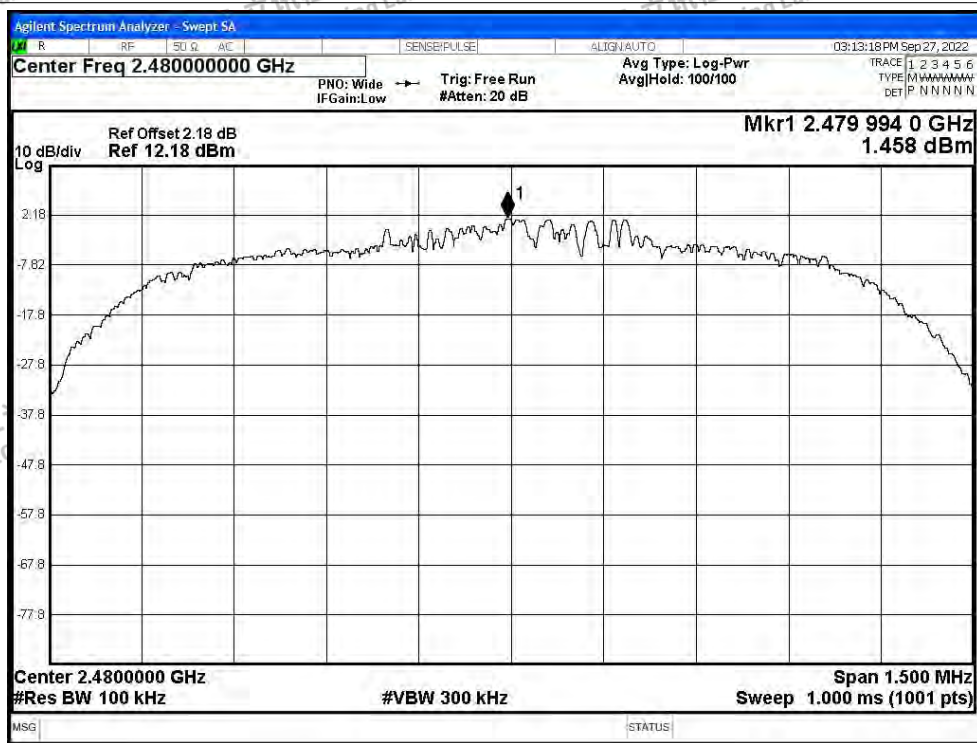


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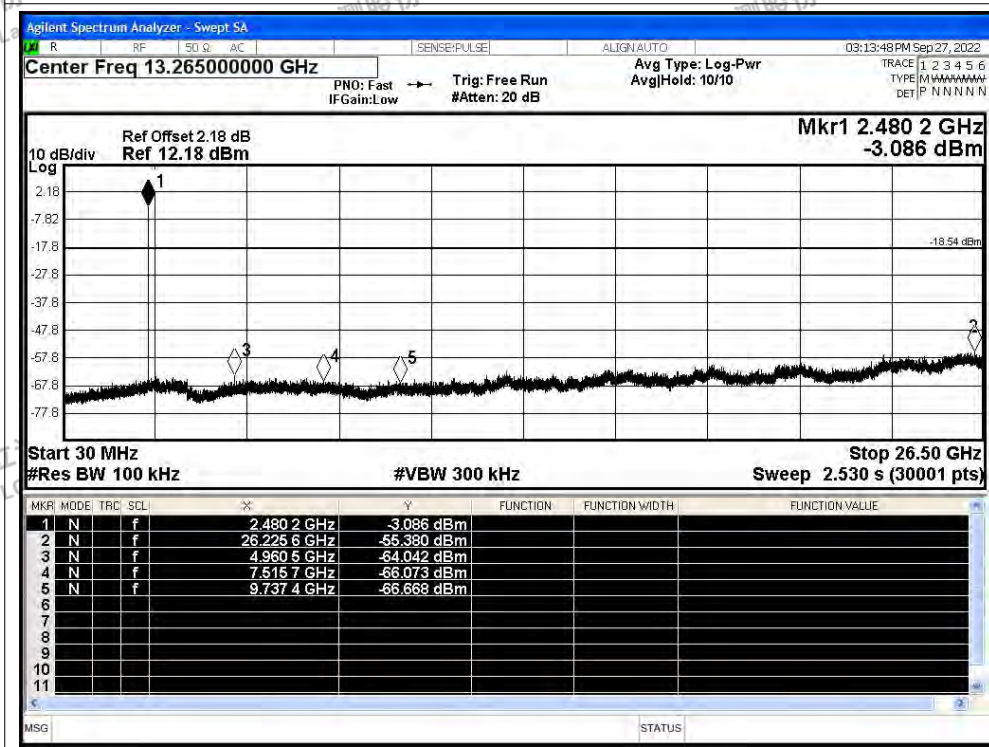




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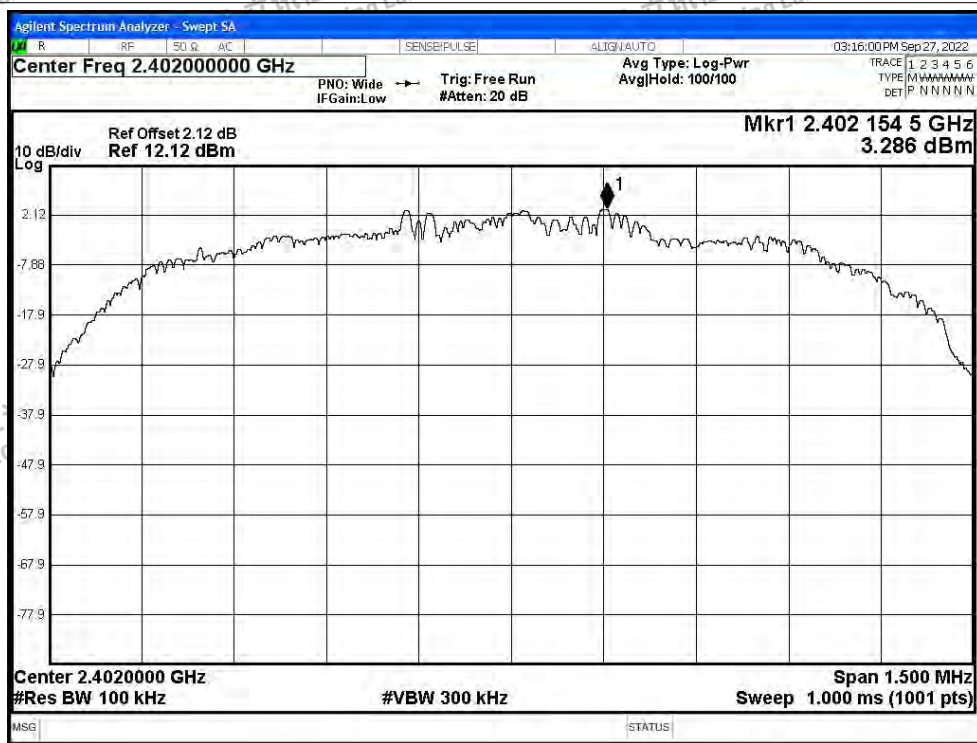


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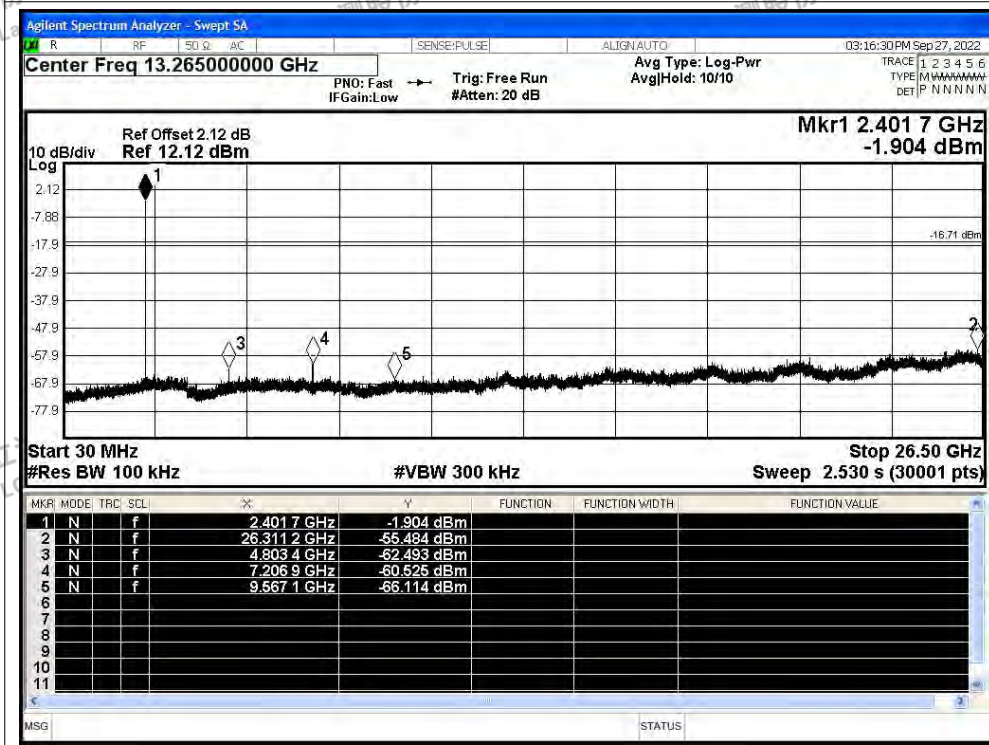




Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission

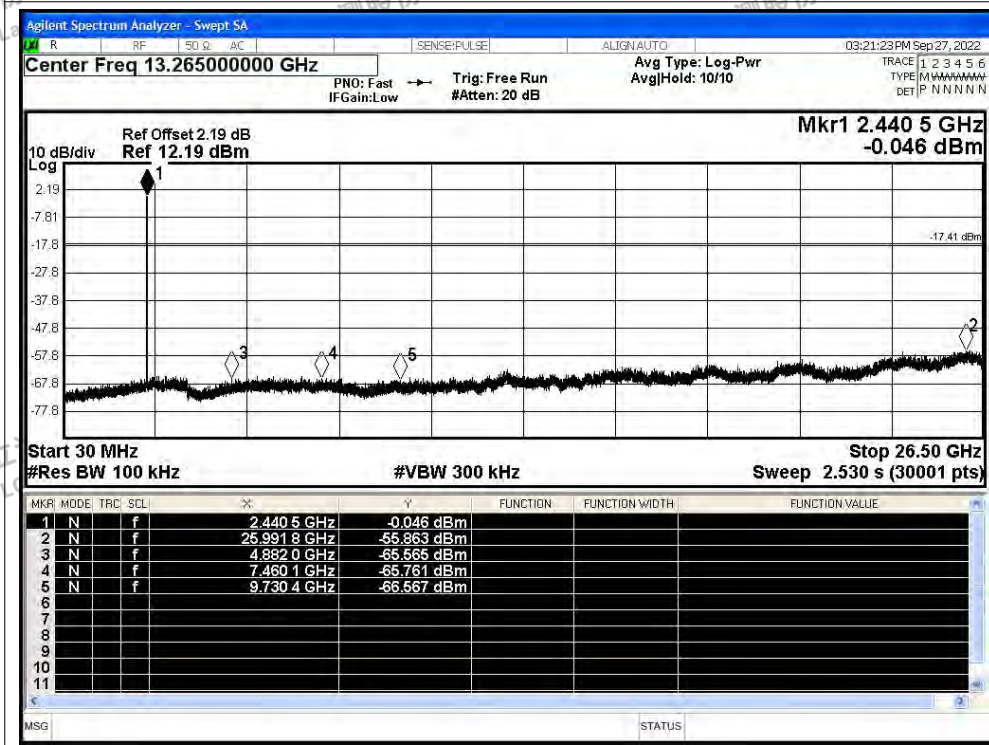




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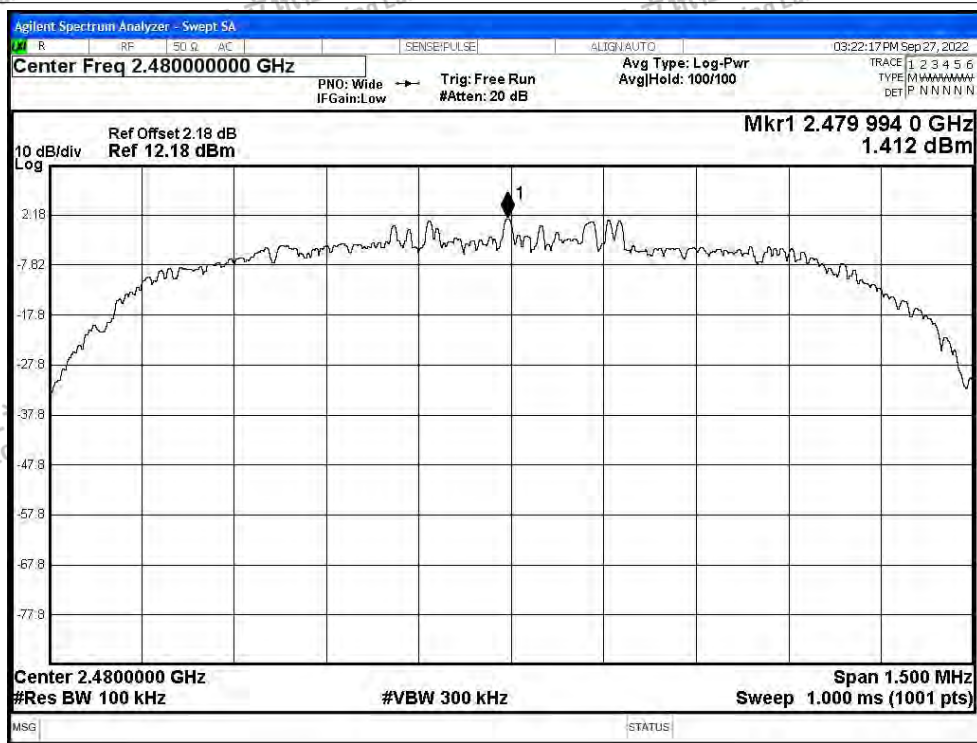


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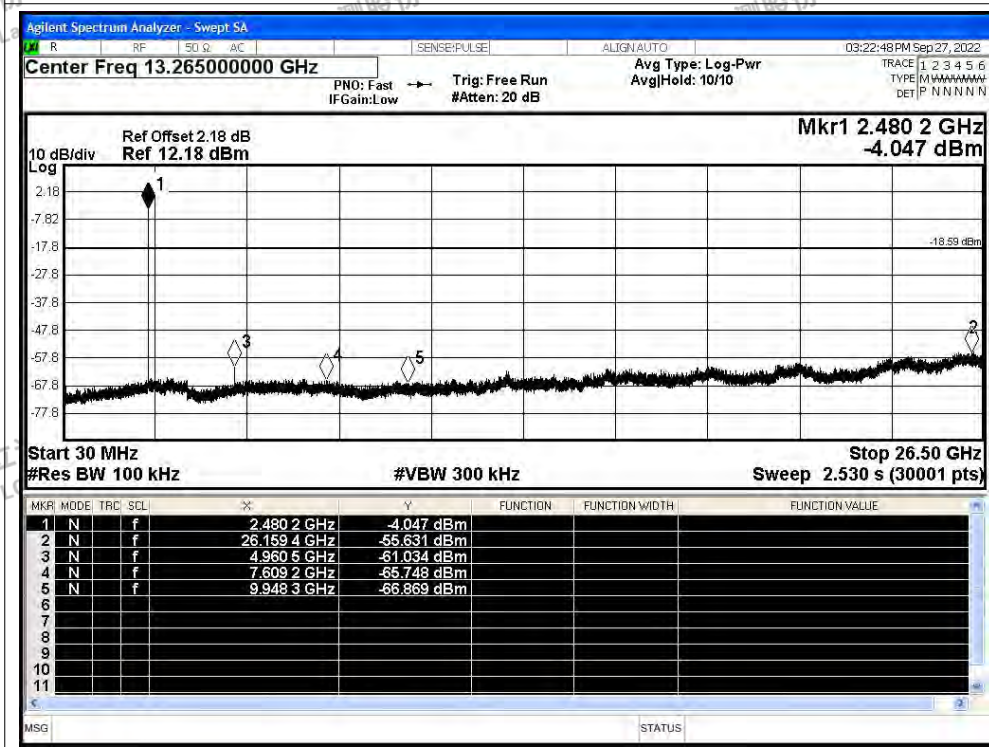




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission





A.9 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-51.99	2.72	45.96	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-60.47	2.72	37.48	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2366.256	-47.49	2.72	50.46	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2389.584	-59.91	2.72	38.04	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.22	2.72	47.73	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-59.96	2.72	37.99	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49	2.72	48.95	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-59.36	2.72	38.59	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2486.584	-46.94	2.72	51.01	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.584	-59.2	2.72	38.75	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-48.92	2.72	49.03	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-59.77	2.72	38.18	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.13	2.72	46.82	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-60.4	2.72	37.55	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2332.56	-46.88	2.72	51.07	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2389.68	-59.75	2.72	38.20	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-51.36	2.72	46.59	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-60.12	2.72	37.83	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-50.3	2.72	47.65	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-59.27	2.72	38.68	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2496.064	-46.85	2.72	51.10	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.752	-59.22	2.72	38.73	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-50.04	2.72	47.91	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-59.63	2.72	38.32	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-50.44	2.72	47.51	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-60.36	2.72	37.59	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2352.432	-47.29	2.72	50.66	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2388.624	-59.86	2.72	38.09	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-49.78	2.72	48.17	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-60.01	2.72	37.94	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-49.09	2.72	48.86	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-59.47	2.72	38.48	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.632	-47.02	2.72	50.93	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2487.928	-59.33	2.72	38.62	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-49.07	2.72	48.88	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-59.64	2.72	38.31	Average	54	Pass

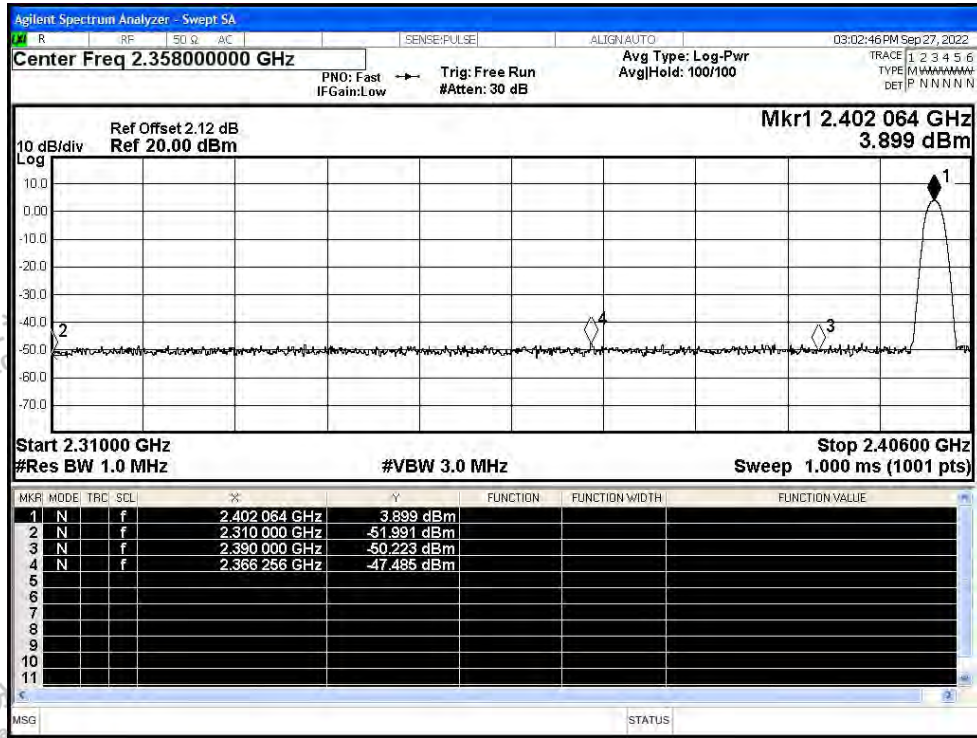


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 Scan code to check authenticity

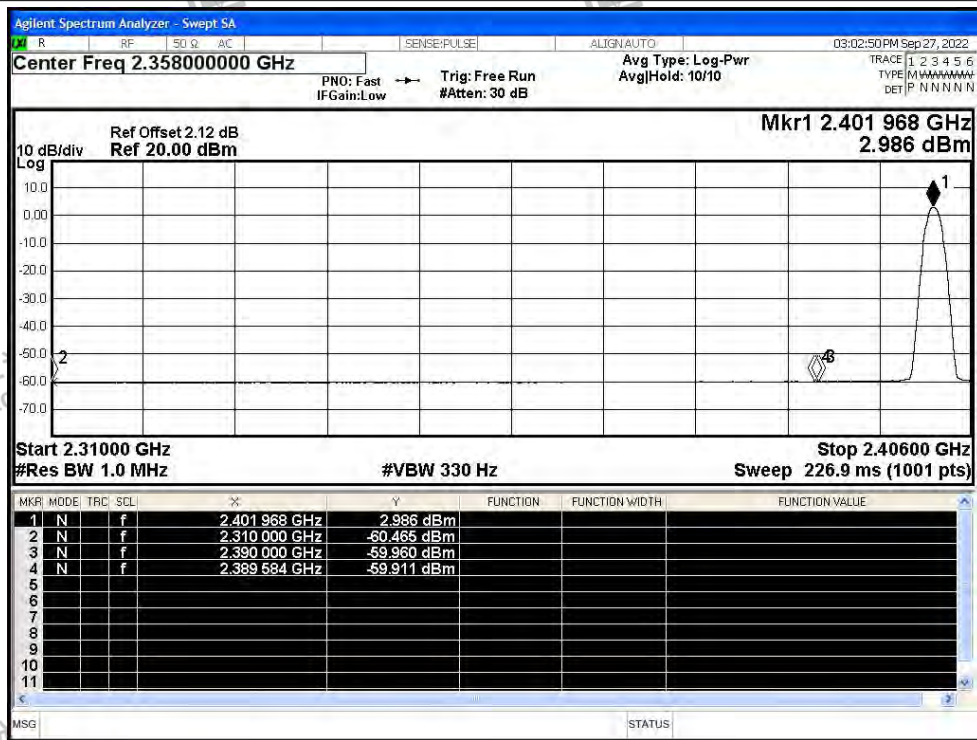


Test Graphs

Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Peak

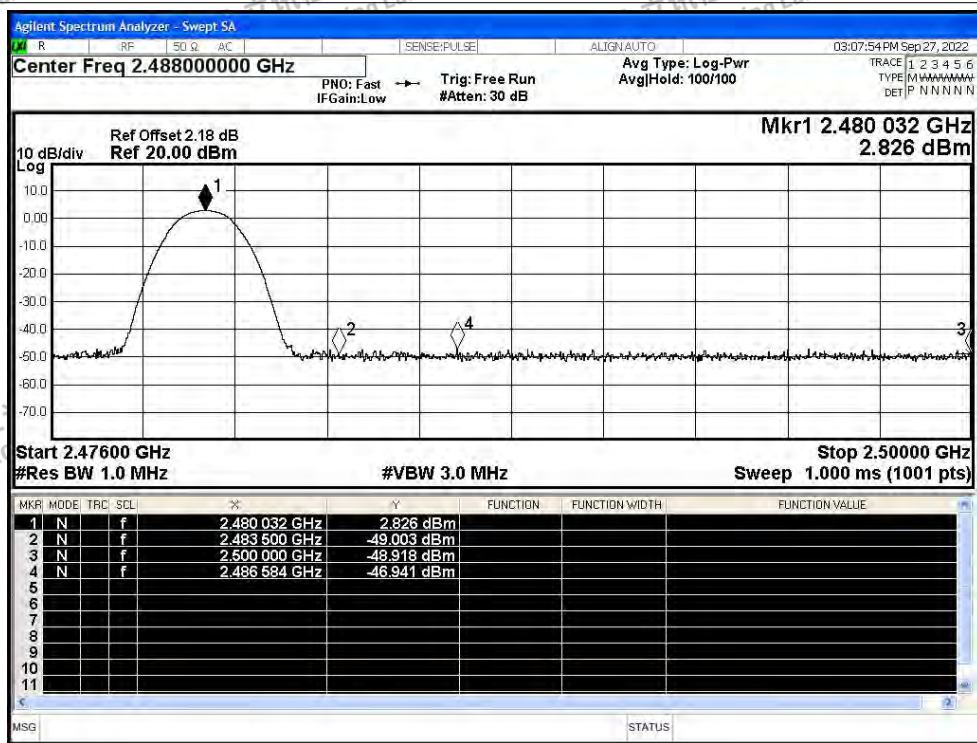


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

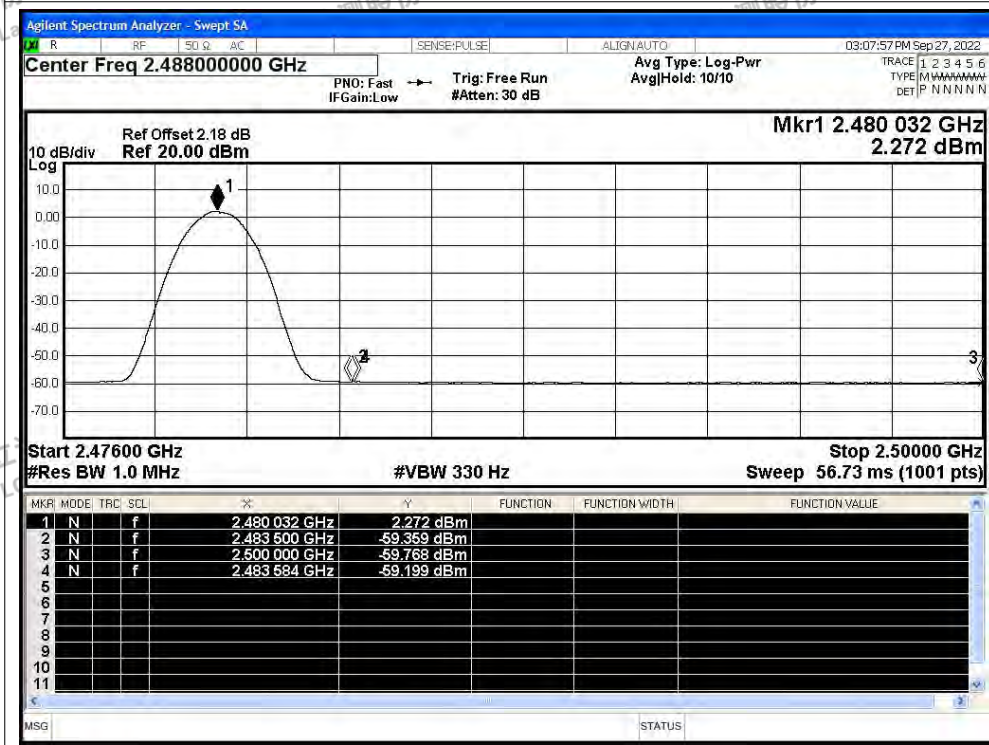




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

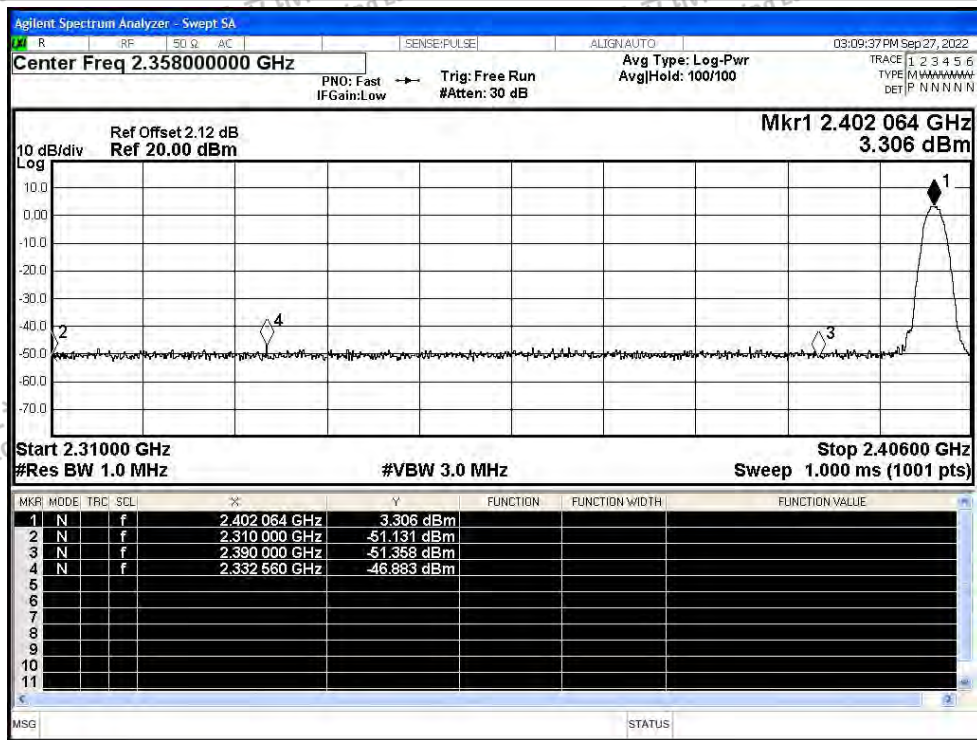


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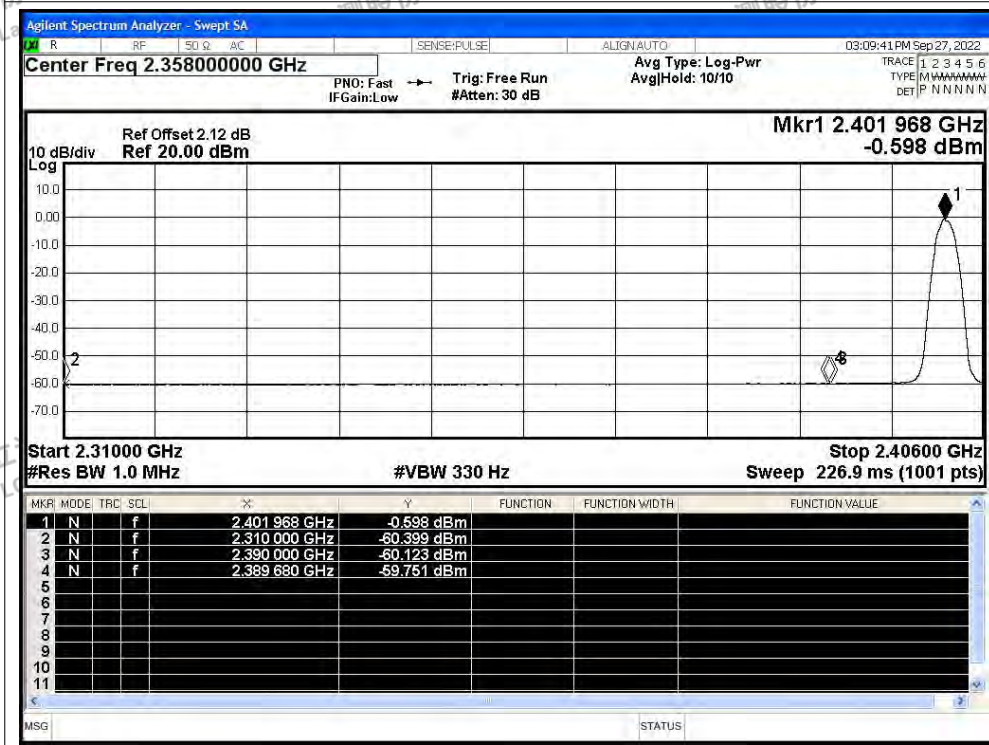




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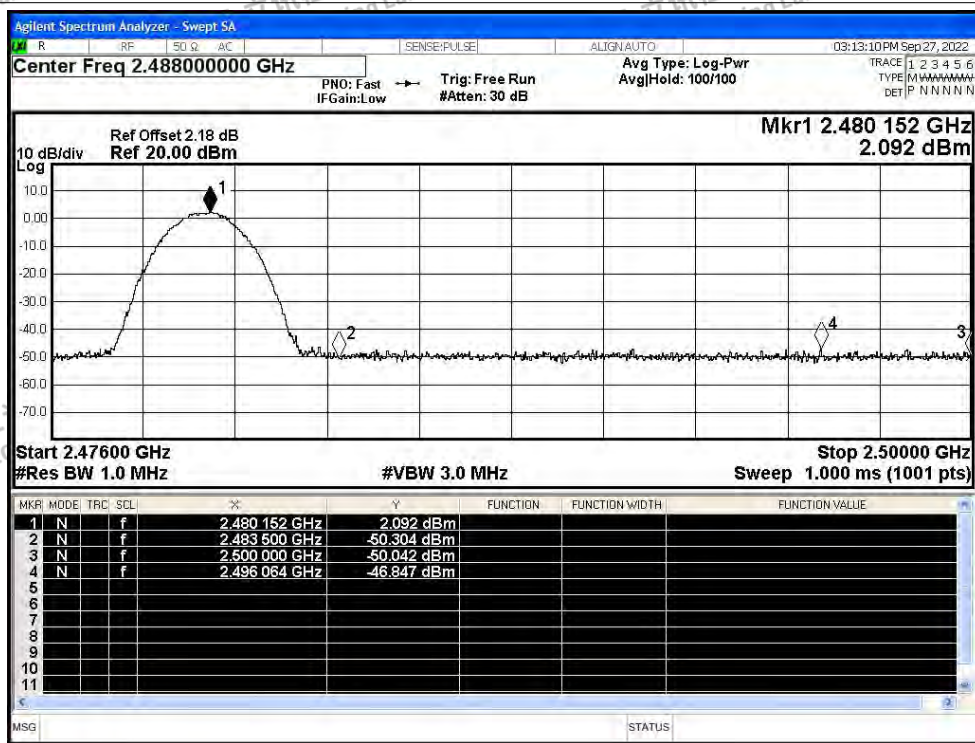


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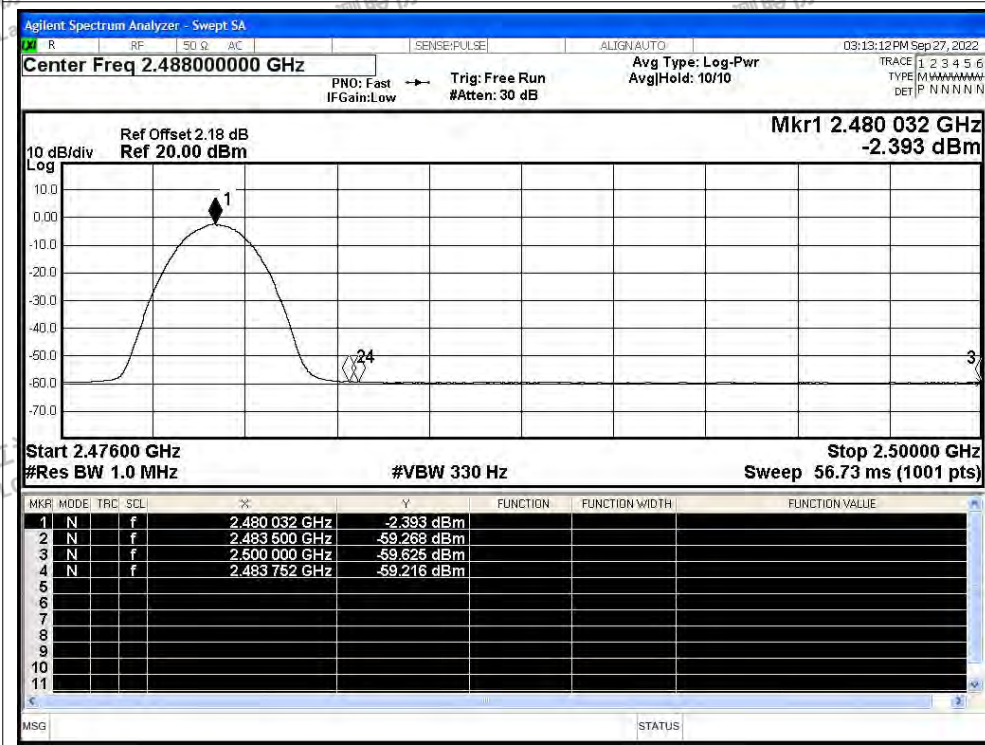




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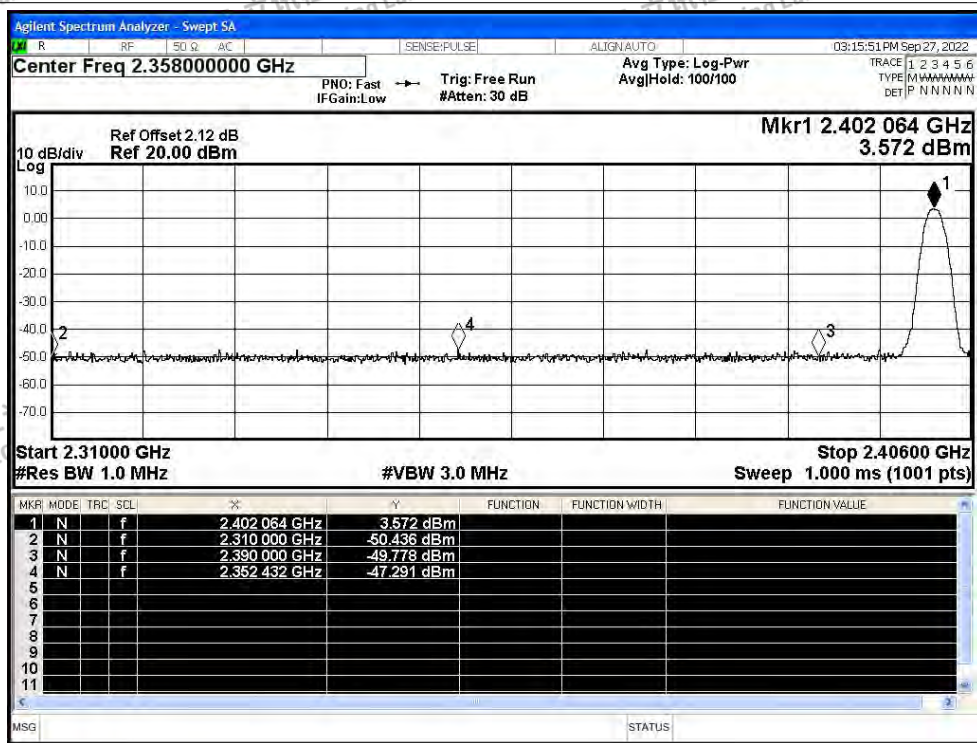


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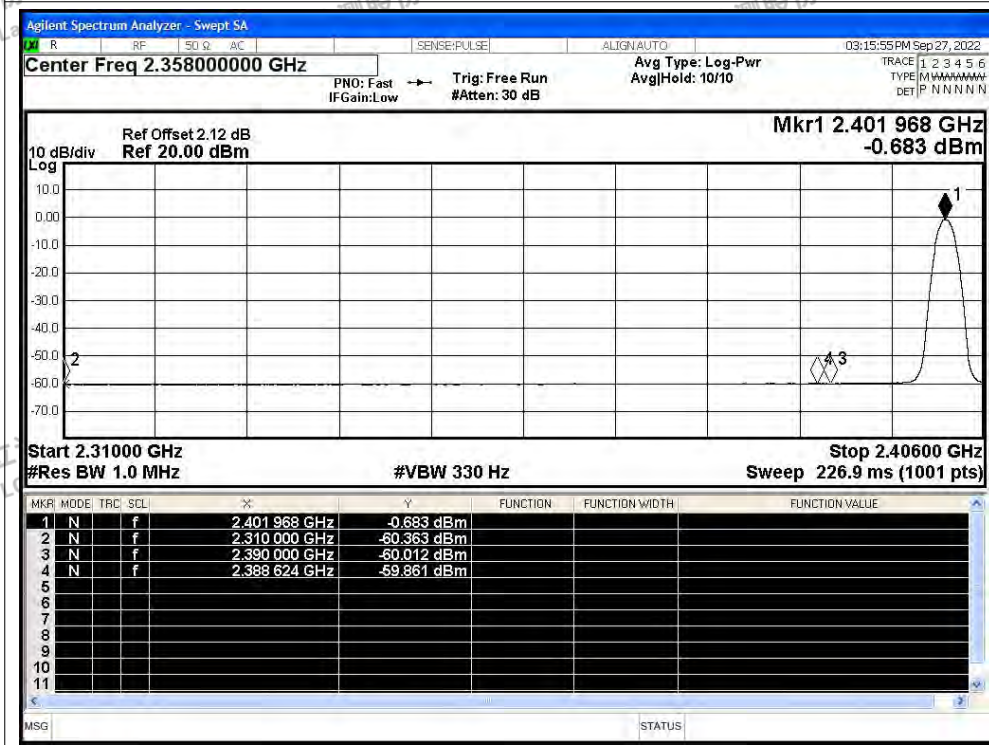




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

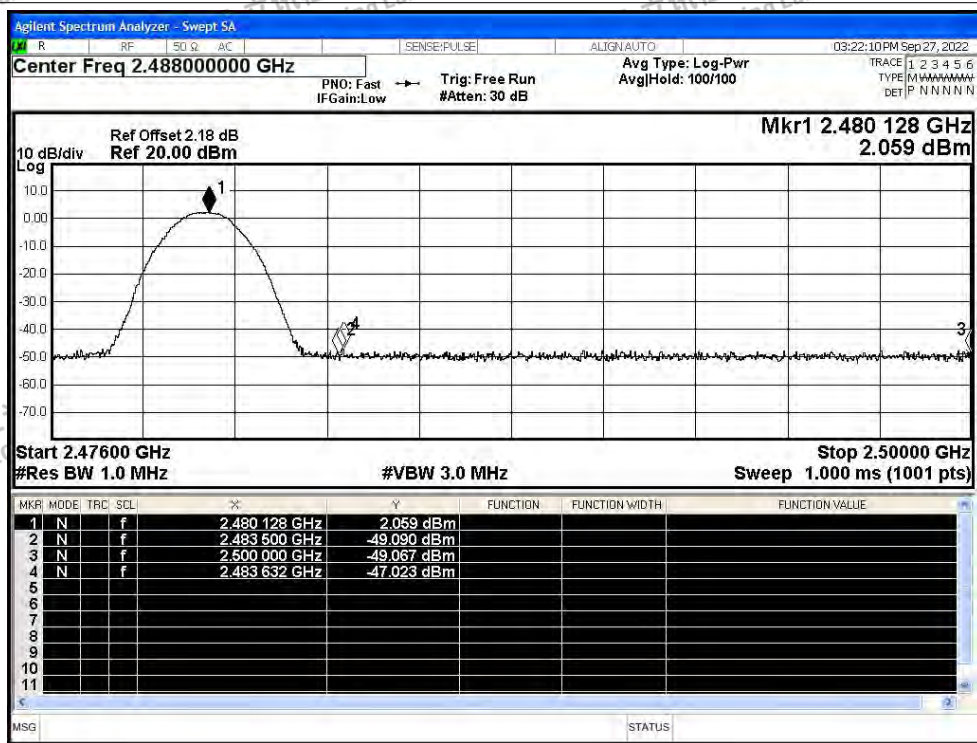


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Peak



Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Average

