

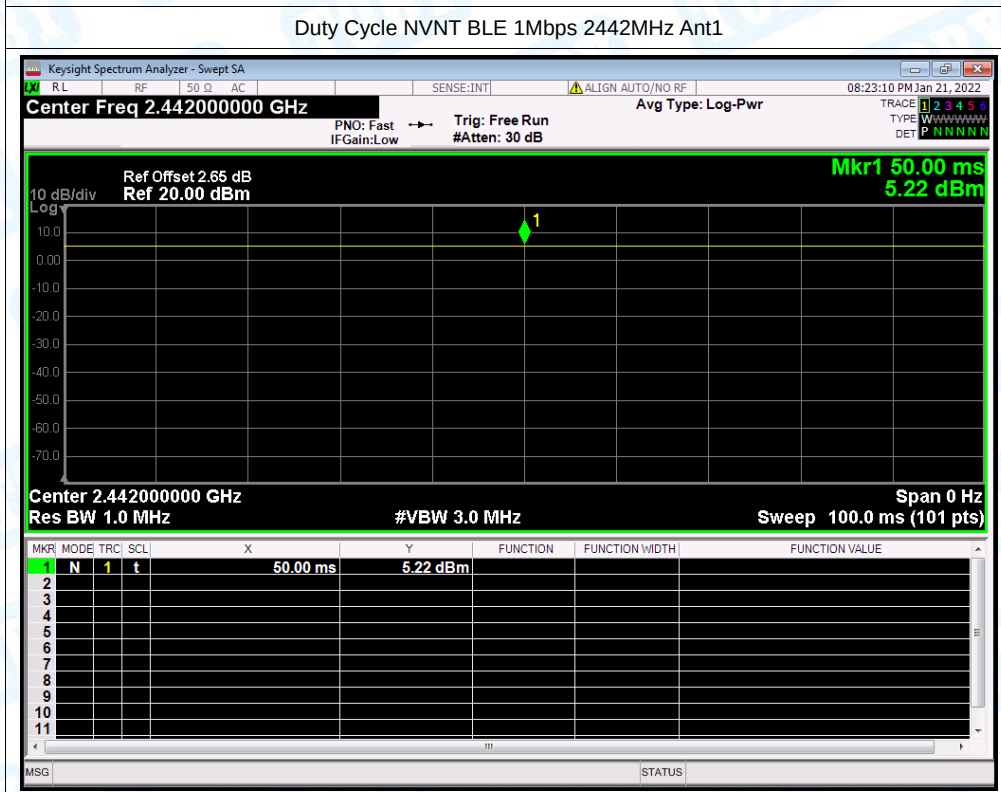
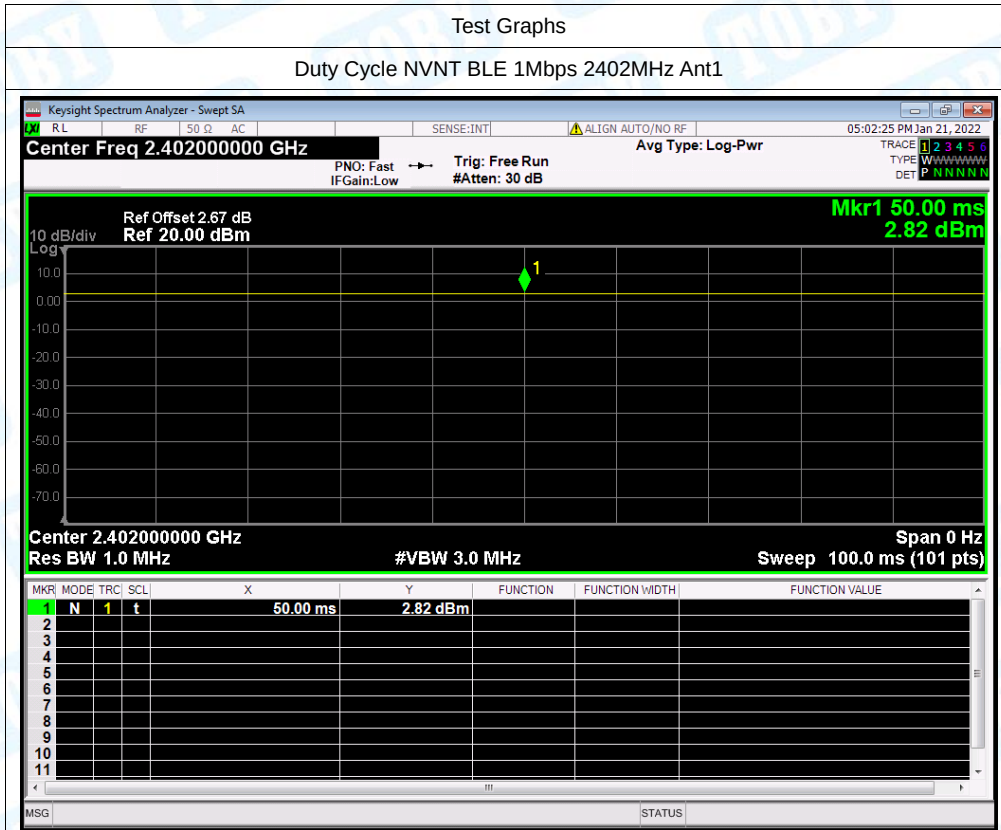
RF Test Data for Bluetooth LE

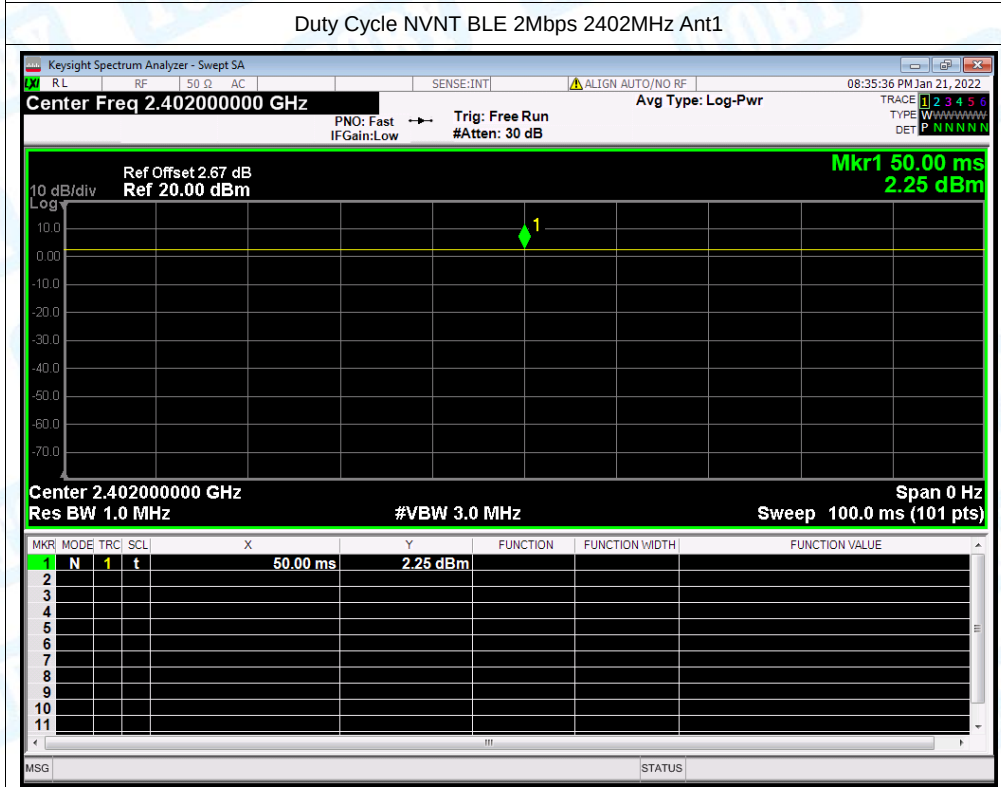
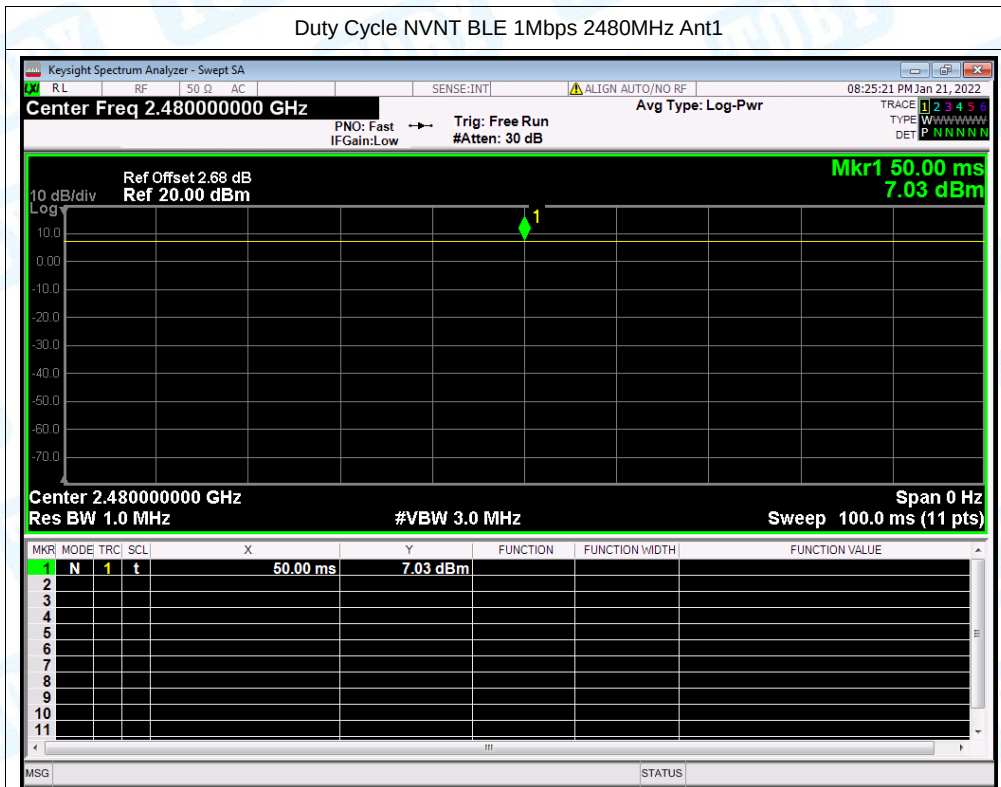
(Conducted Measurements)

General Description of EUT	
Product Name:	iPad Pro 11-inch Bluetooth keyboard
Test Model:	iPad Pro11
Sample ID:	RW-C-202201-0060-4-2#
Environmental Conditions	
Temperature:	24℃
Relative Humidity:	50%
Test Voltage:	DC3.7V
Test Engineer:	Hejingchang
Note: For a more detailed features description, please refer to the report TBR-C-202201-0060-5.	

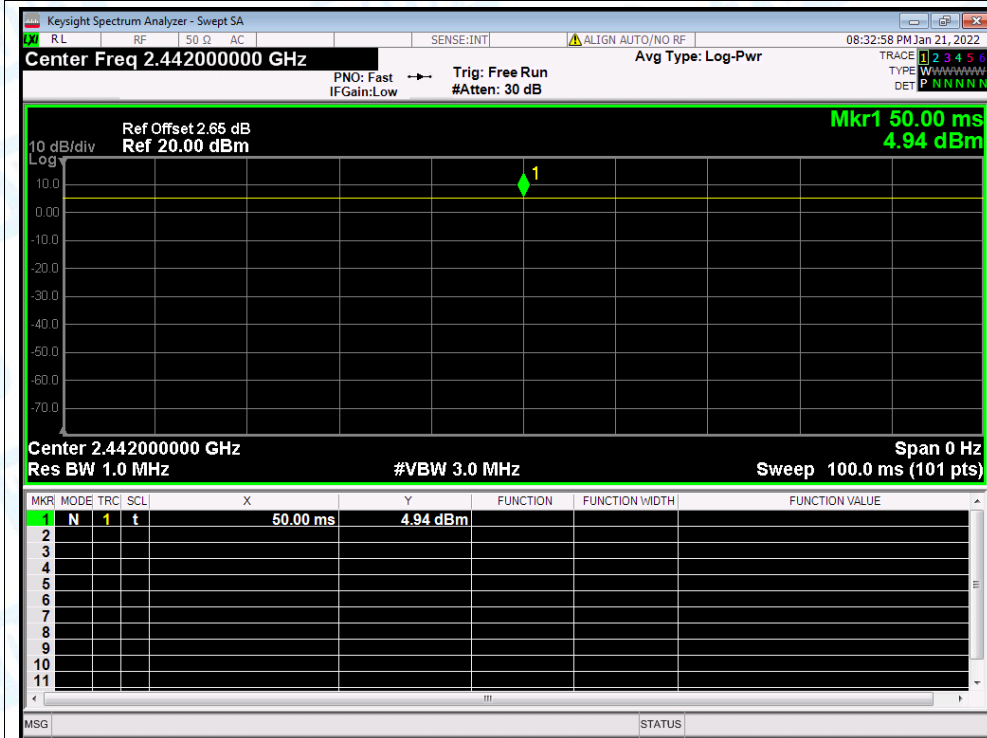
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1Mbps	2402	Ant1	100	0	0
NVNT	BLE 1Mbps	2442	Ant1	100	0	0
NVNT	BLE 1Mbps	2480	Ant1	100	0	0
NVNT	BLE 2Mbps	2402	Ant1	100	0	0
NVNT	BLE 2Mbps	2442	Ant1	100	0	0
NVNT	BLE 2Mbps	2480	Ant1	100	0	0

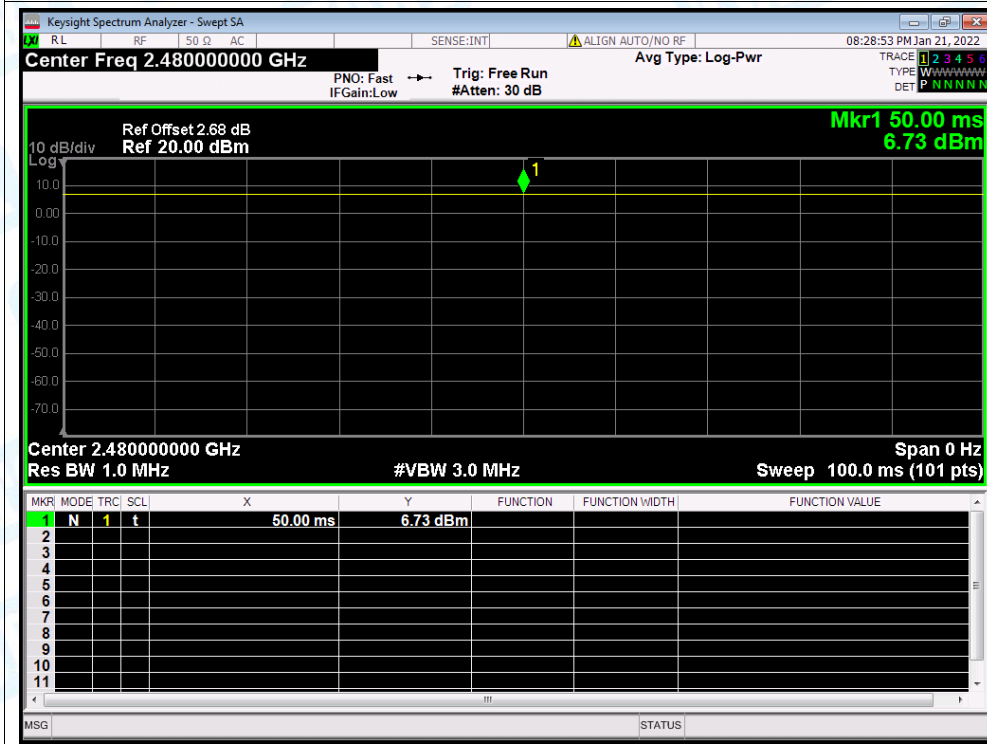




Duty Cycle NVNT BLE 2Mbps 2442MHz Ant1

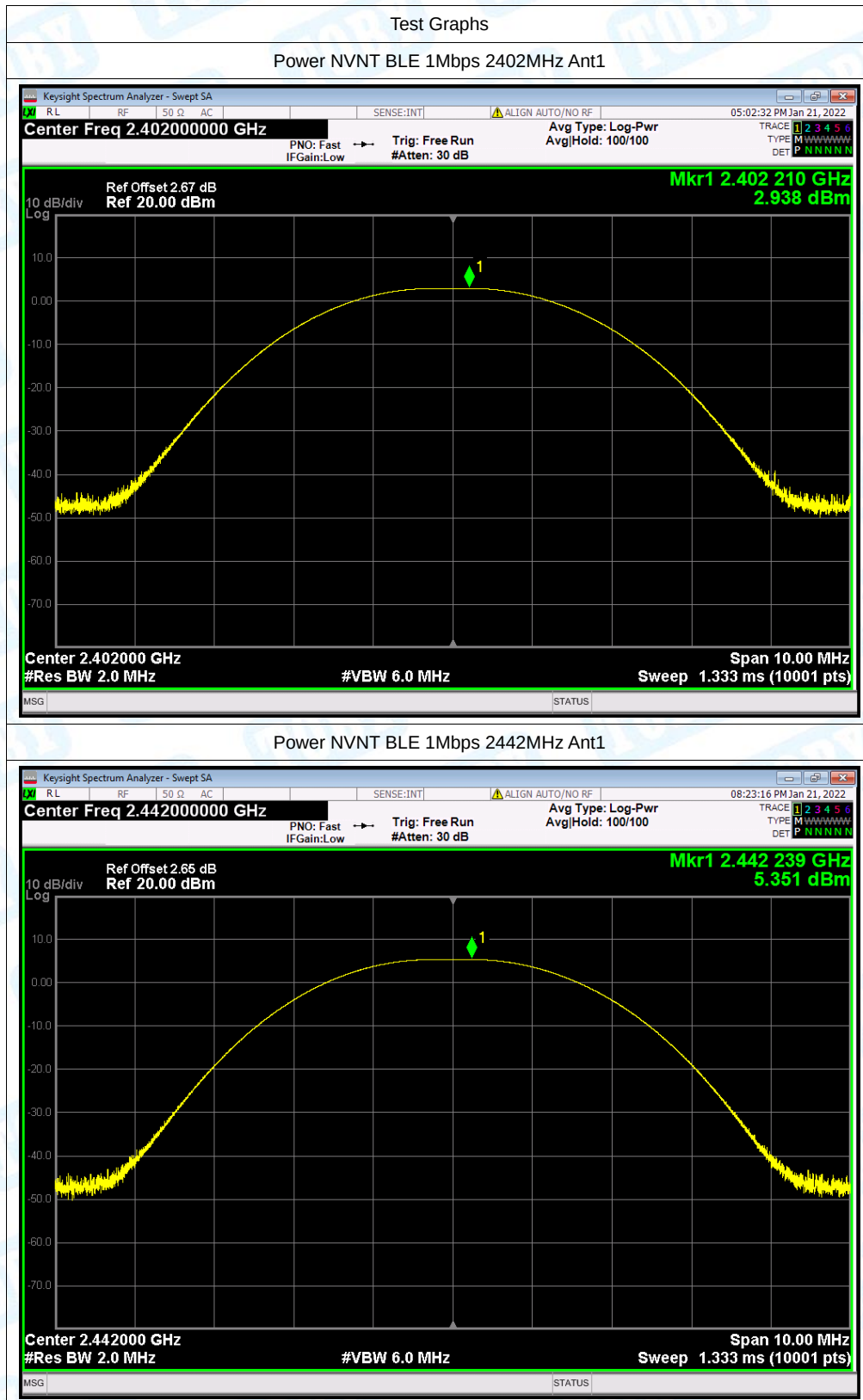


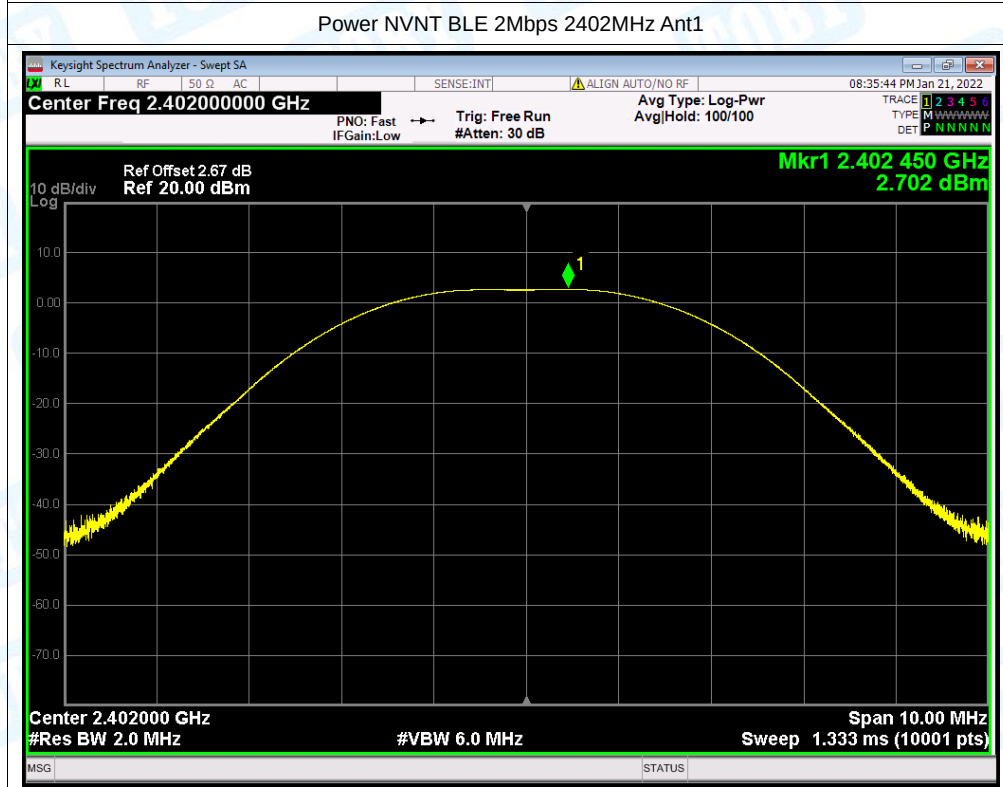
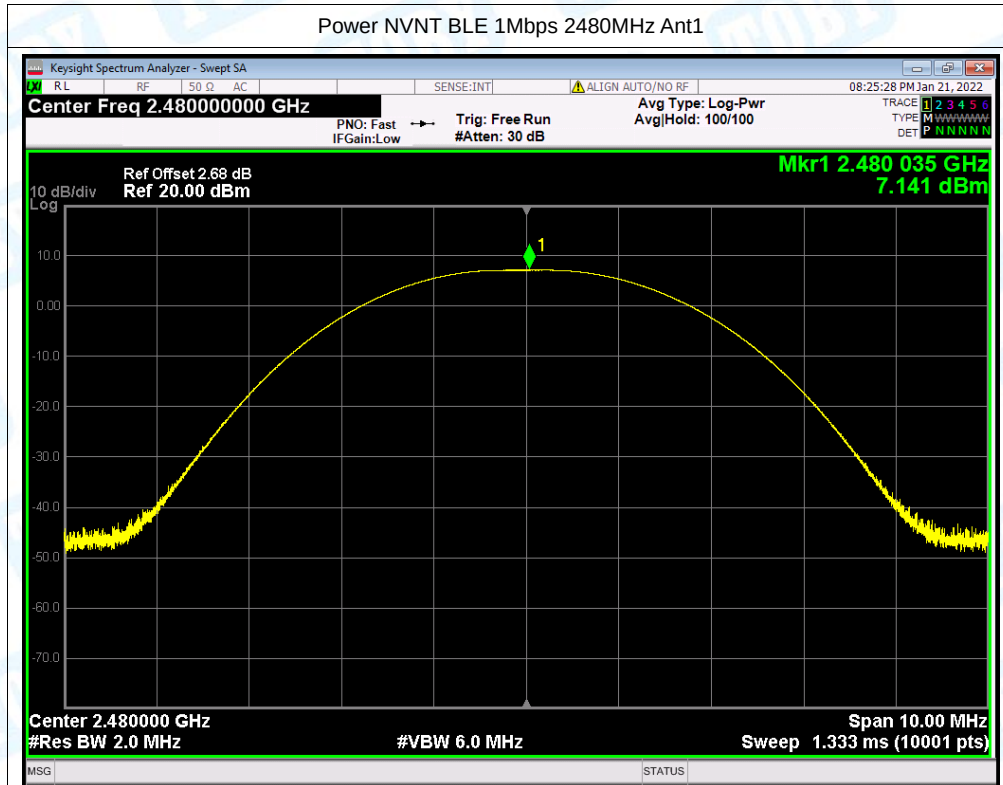
Duty Cycle NVNT BLE 2Mbps 2480MHz Ant1



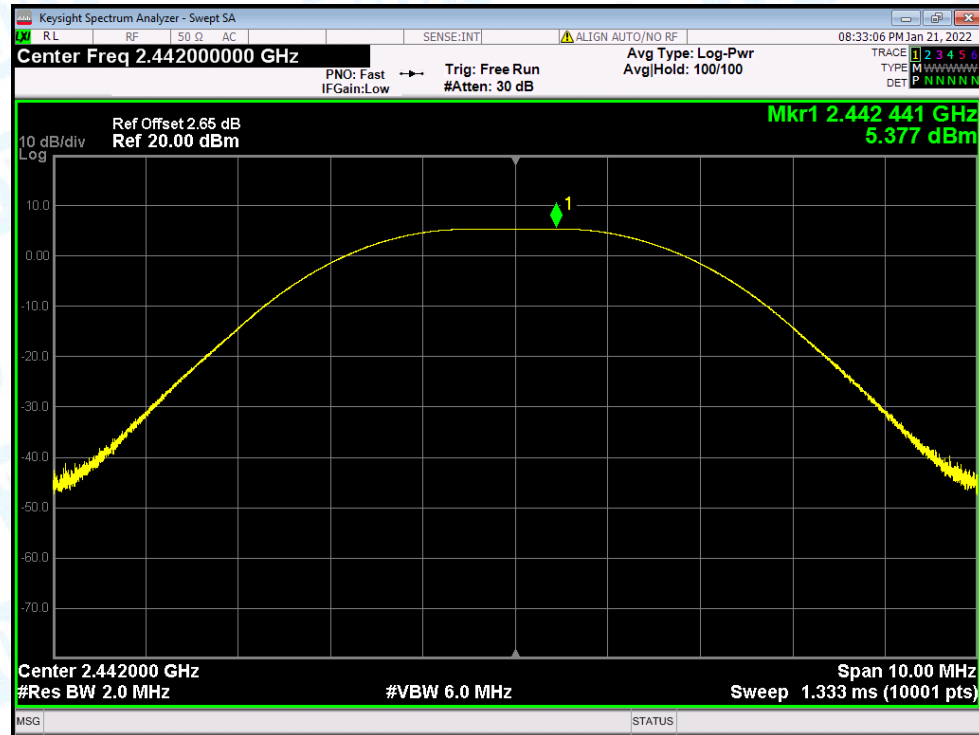
Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	2.938	30	Pass
NVNT	BLE 1Mbps	2442	Ant1	5.351	30	Pass
NVNT	BLE 1Mbps	2480	Ant1	7.141	30	Pass
NVNT	BLE 2Mbps	2402	Ant1	2.702	30	Pass
NVNT	BLE 2Mbps	2442	Ant1	5.377	30	Pass
NVNT	BLE 2Mbps	2480	Ant1	7.136	30	Pass

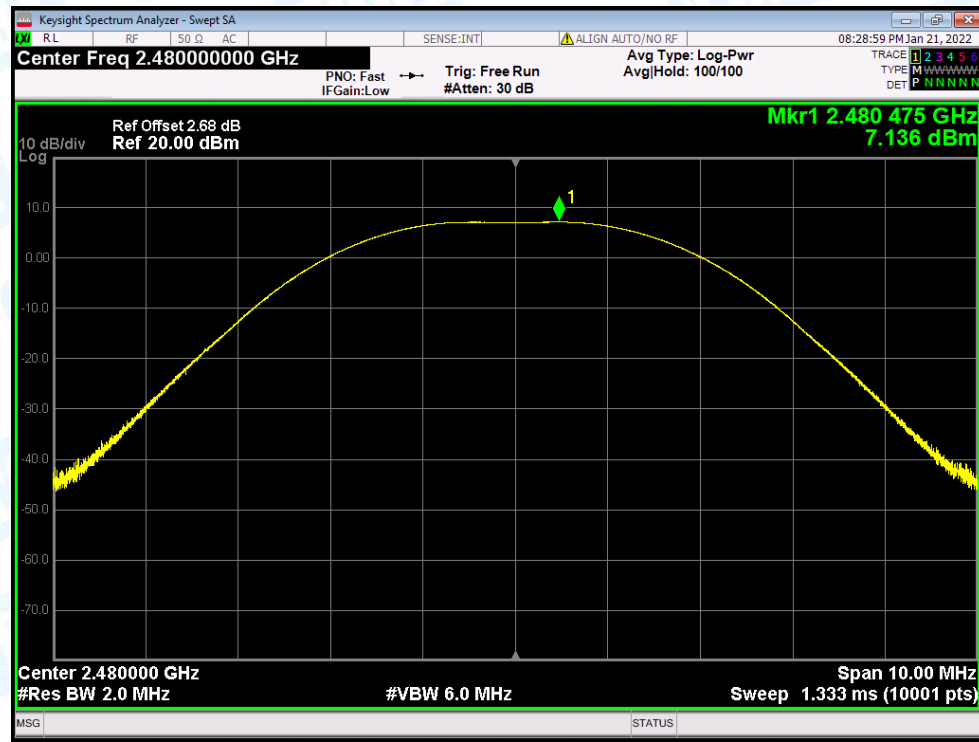




Power NVNT BLE 2Mbps 2442MHz Ant1



Power NVNT BLE 2Mbps 2480MHz Ant1

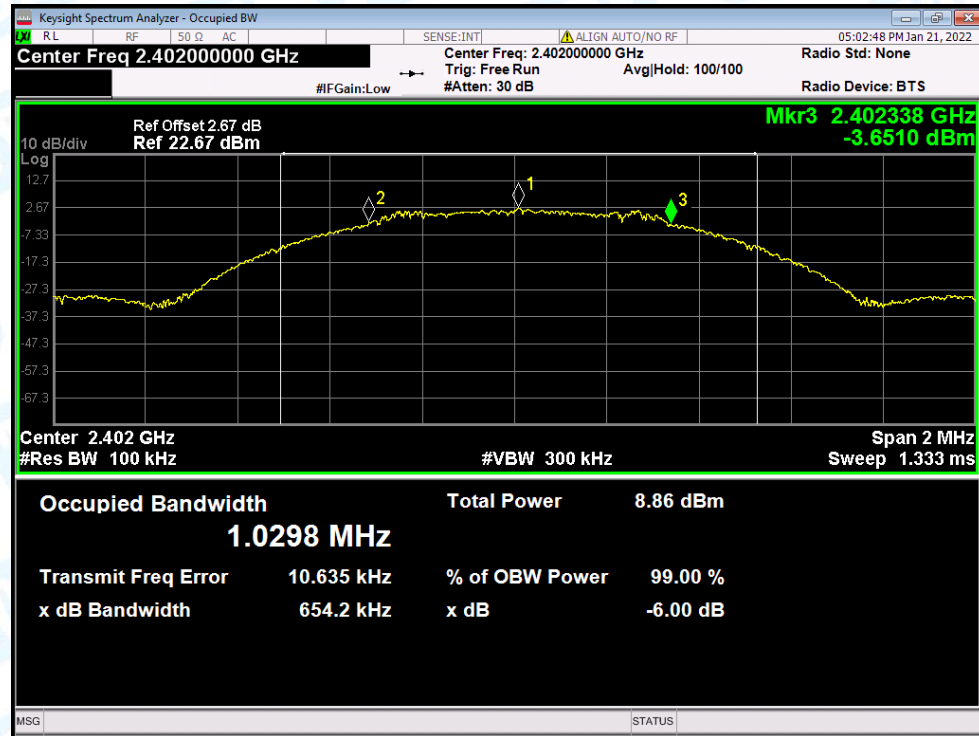


-6dB Bandwidth

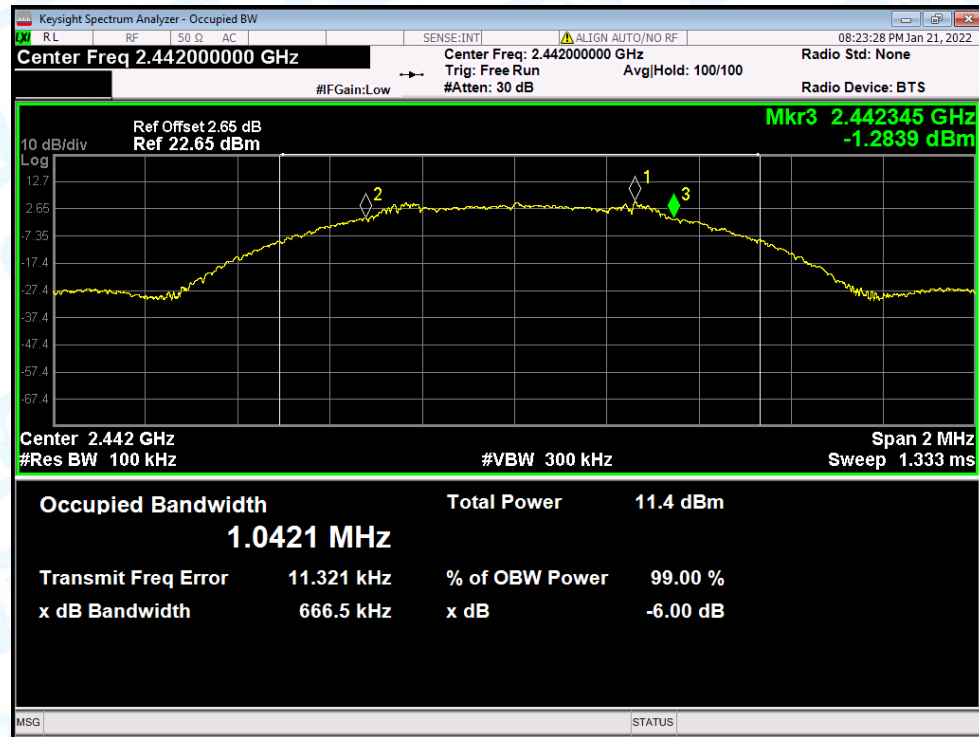
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	0.6542	0.5	Pass
NVNT	BLE 1Mbps	2442	Ant1	0.6665	0.5	Pass
NVNT	BLE 1Mbps	2480	Ant1	0.6524	0.5	Pass
NVNT	BLE 2Mbps	2402	Ant1	1.150	0.5	Pass
NVNT	BLE 2Mbps	2442	Ant1	1.376	0.5	Pass
NVNT	BLE 2Mbps	2480	Ant1	1.206	0.5	Pass

Test Graphs

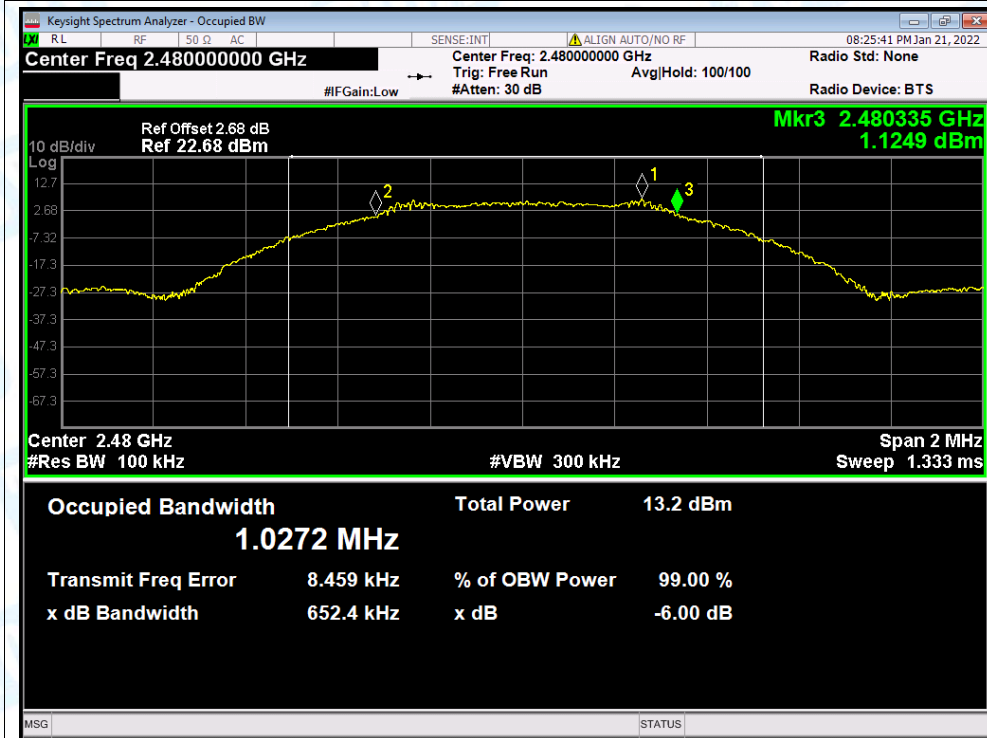
-6dB Bandwidth NVNT BLE 1Mbps 2402MHz Ant1



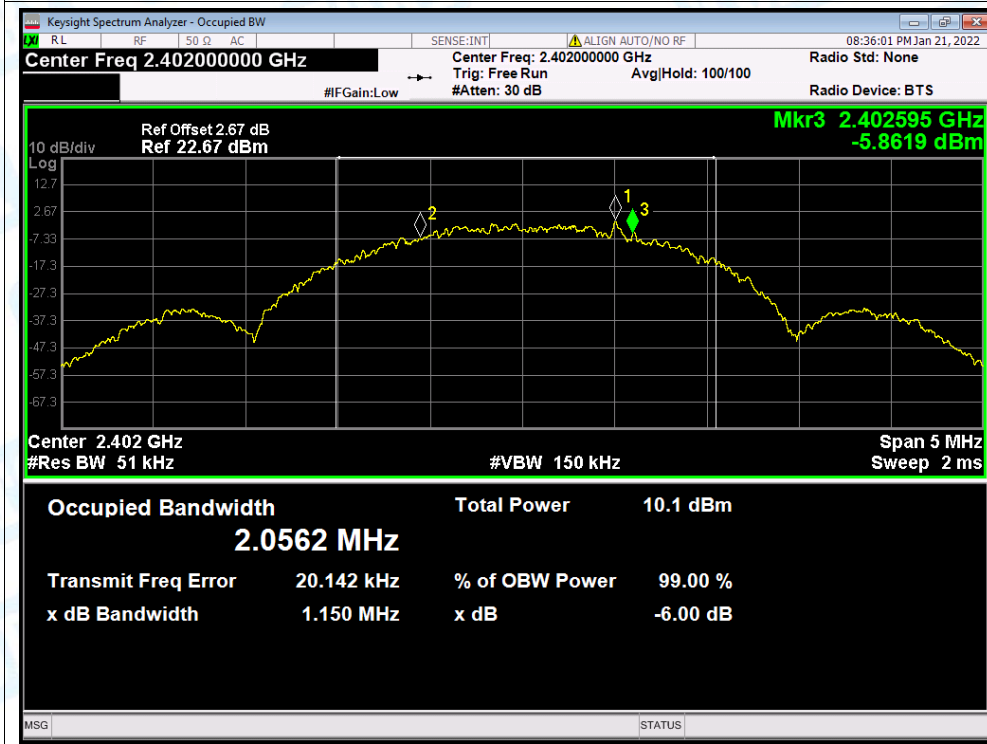
-6dB Bandwidth NVNT BLE 1Mbps 2442MHz Ant1



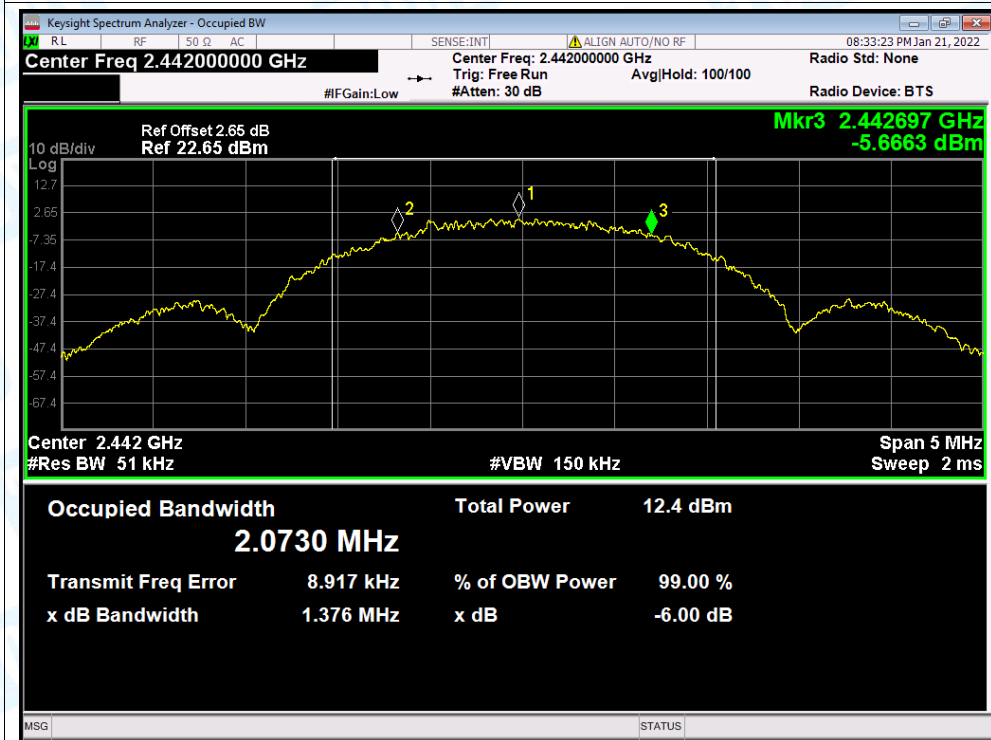
-6dB Bandwidth NVNT BLE 1Mbps 2480MHz Ant1



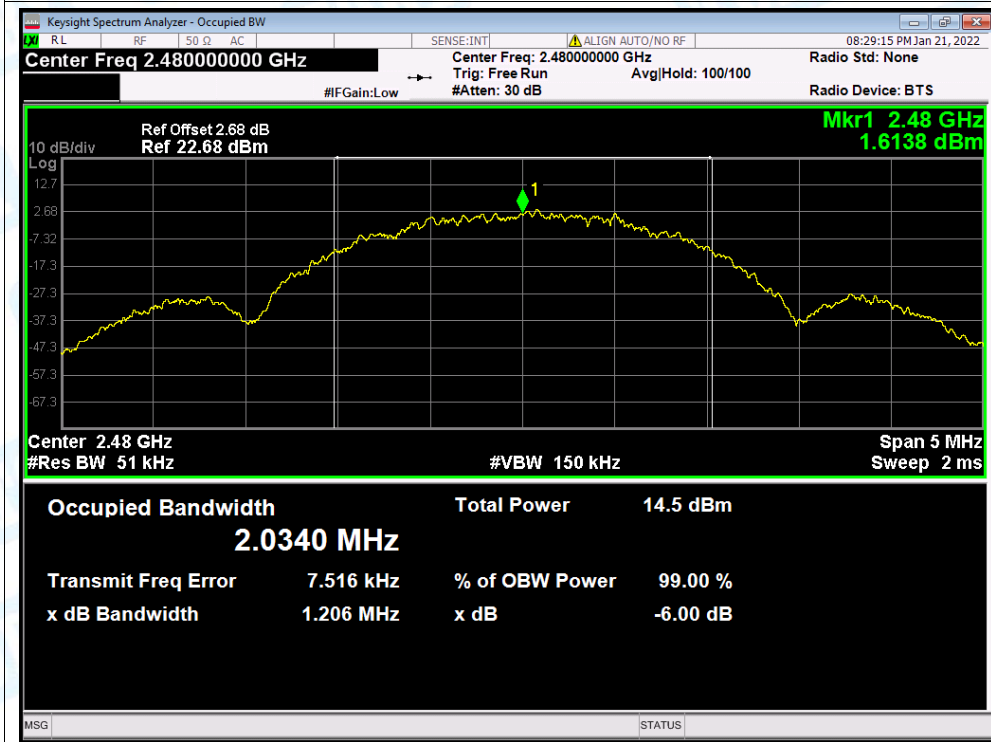
-6dB Bandwidth NVNT BLE 2Mbps 2402MHz Ant1



-6dB Bandwidth NVNT BLE 2Mbps 2442MHz Ant1

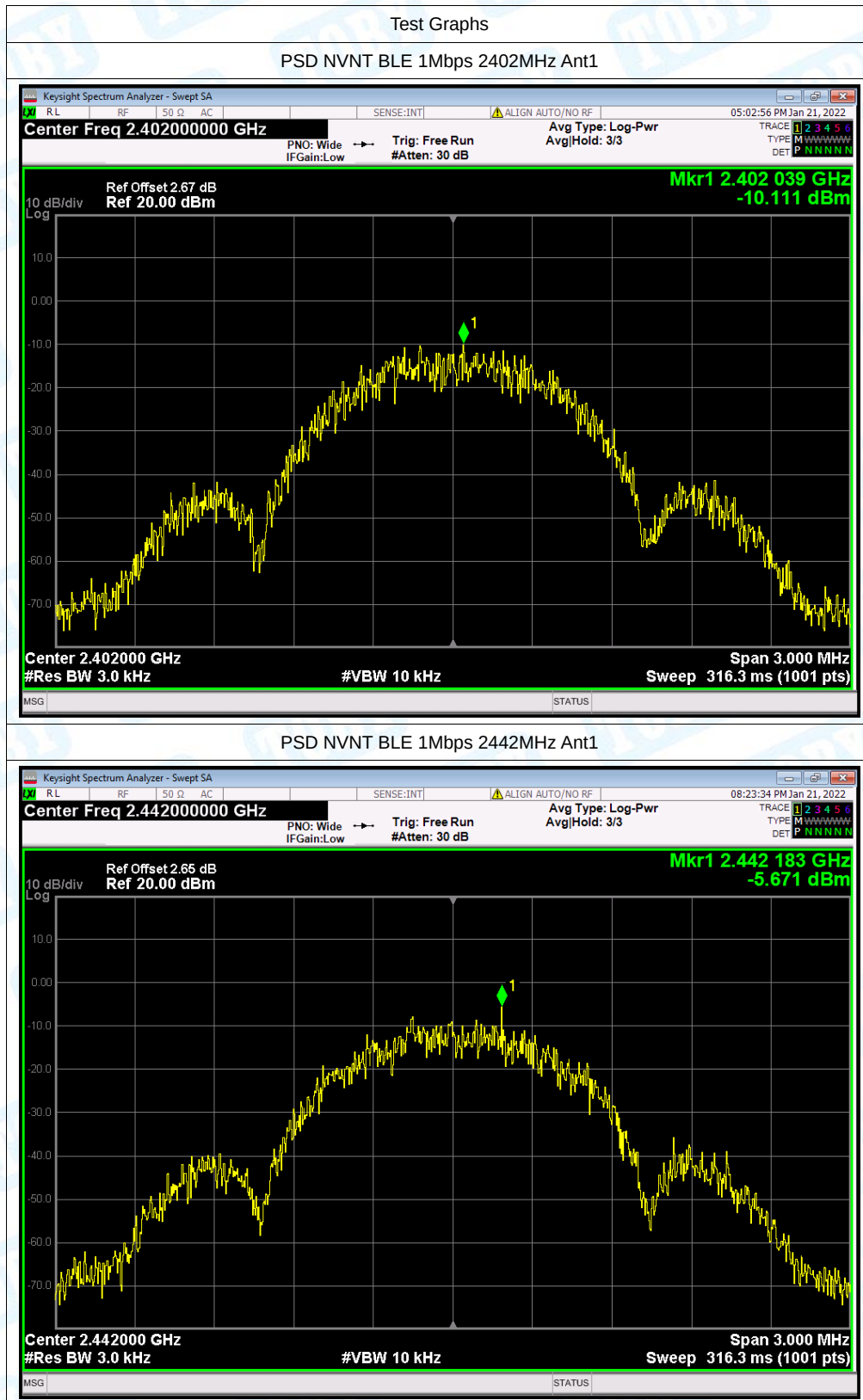


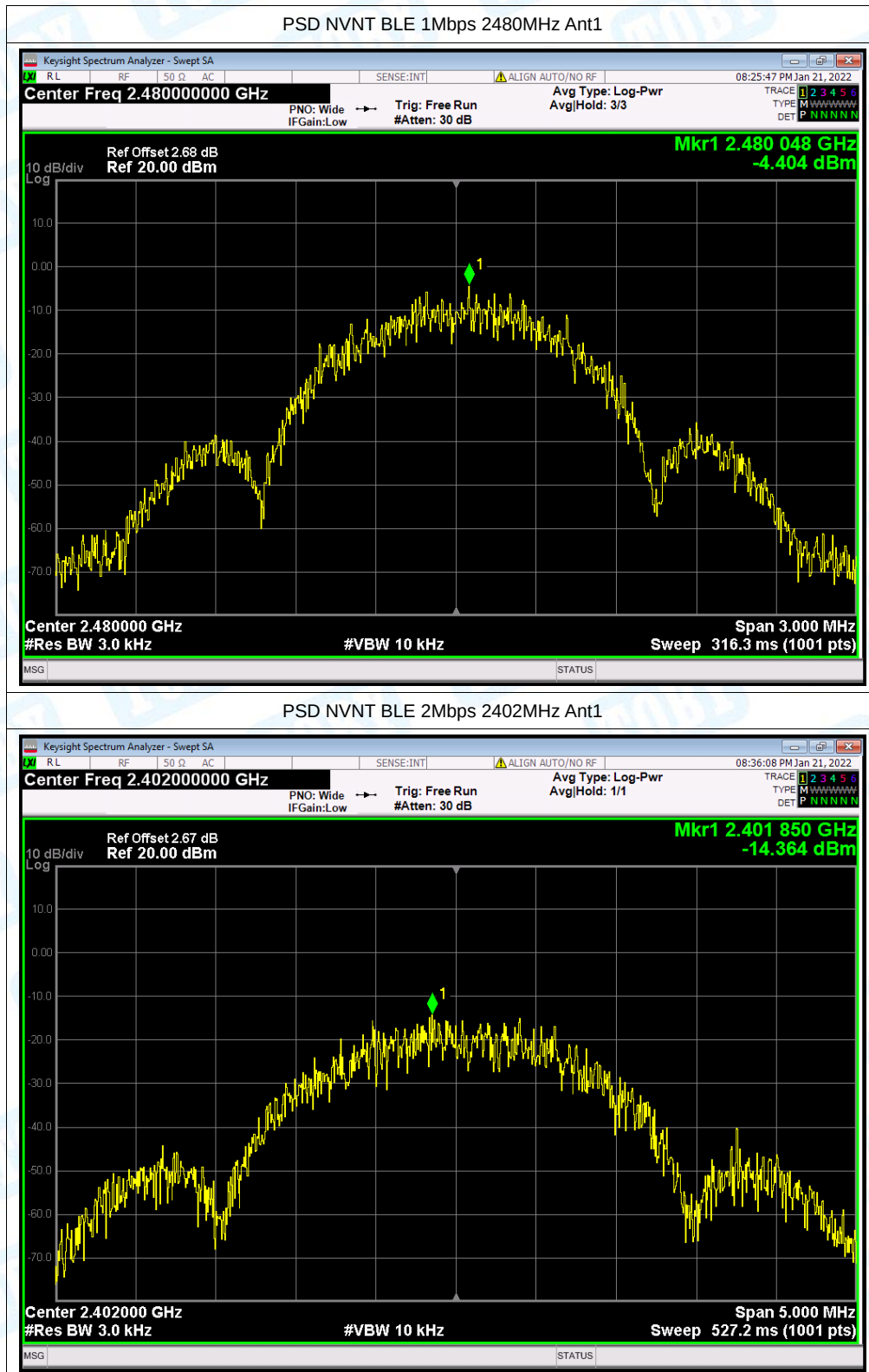
-6dB Bandwidth NVNT BLE 2Mbps 2480MHz Ant1

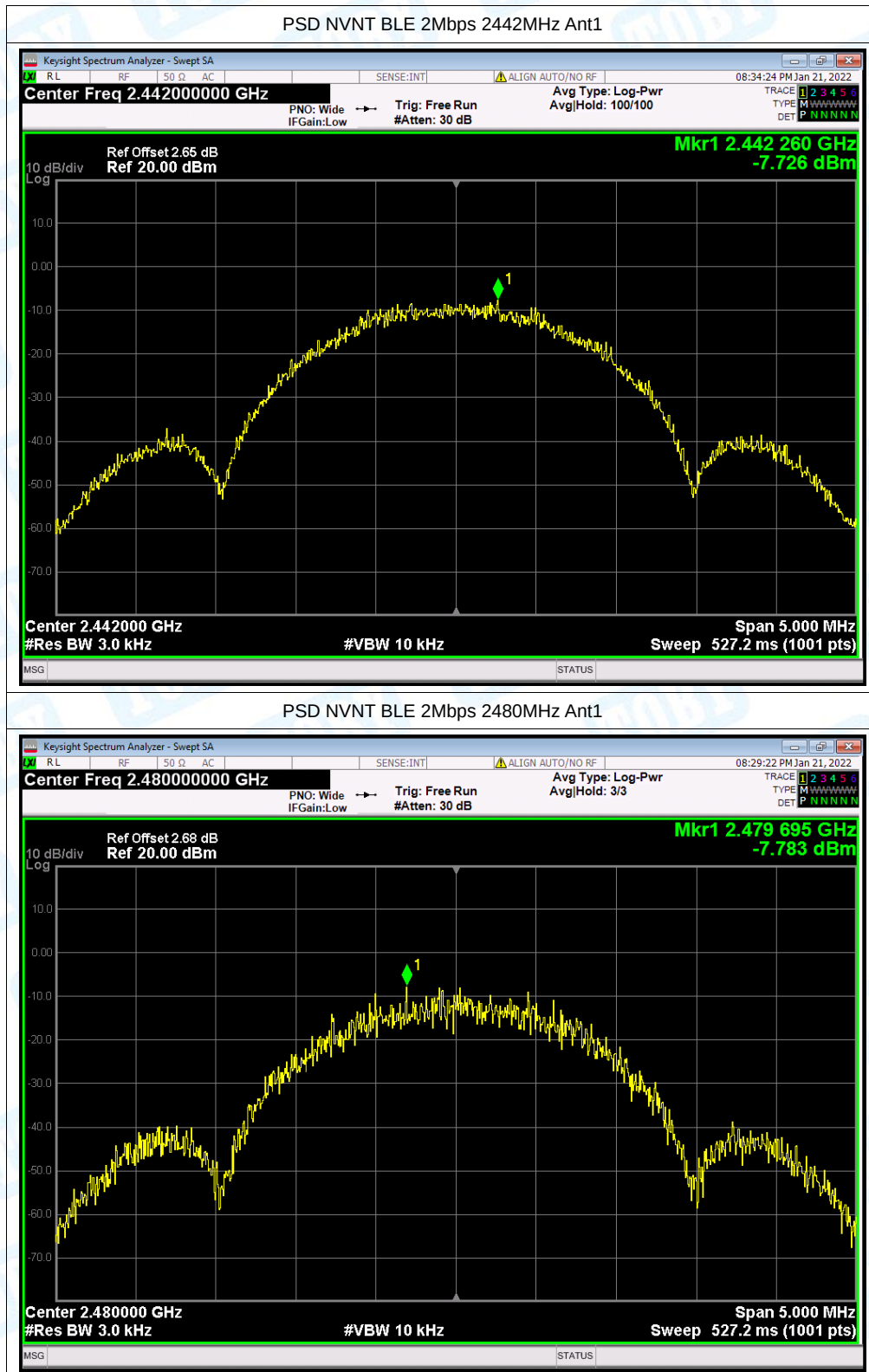


Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-10.111	8	Pass
NVNT	BLE 1Mbps	2442	Ant1	-5.671	8	Pass
NVNT	BLE 1Mbps	2480	Ant1	-4.404	8	Pass
NVNT	BLE 2Mbps	2402	Ant1	-14.364	8	Pass
NVNT	BLE 2Mbps	2442	Ant1	-7.726	8	Pass
NVNT	BLE 2Mbps	2480	Ant1	-7.783	8	Pass

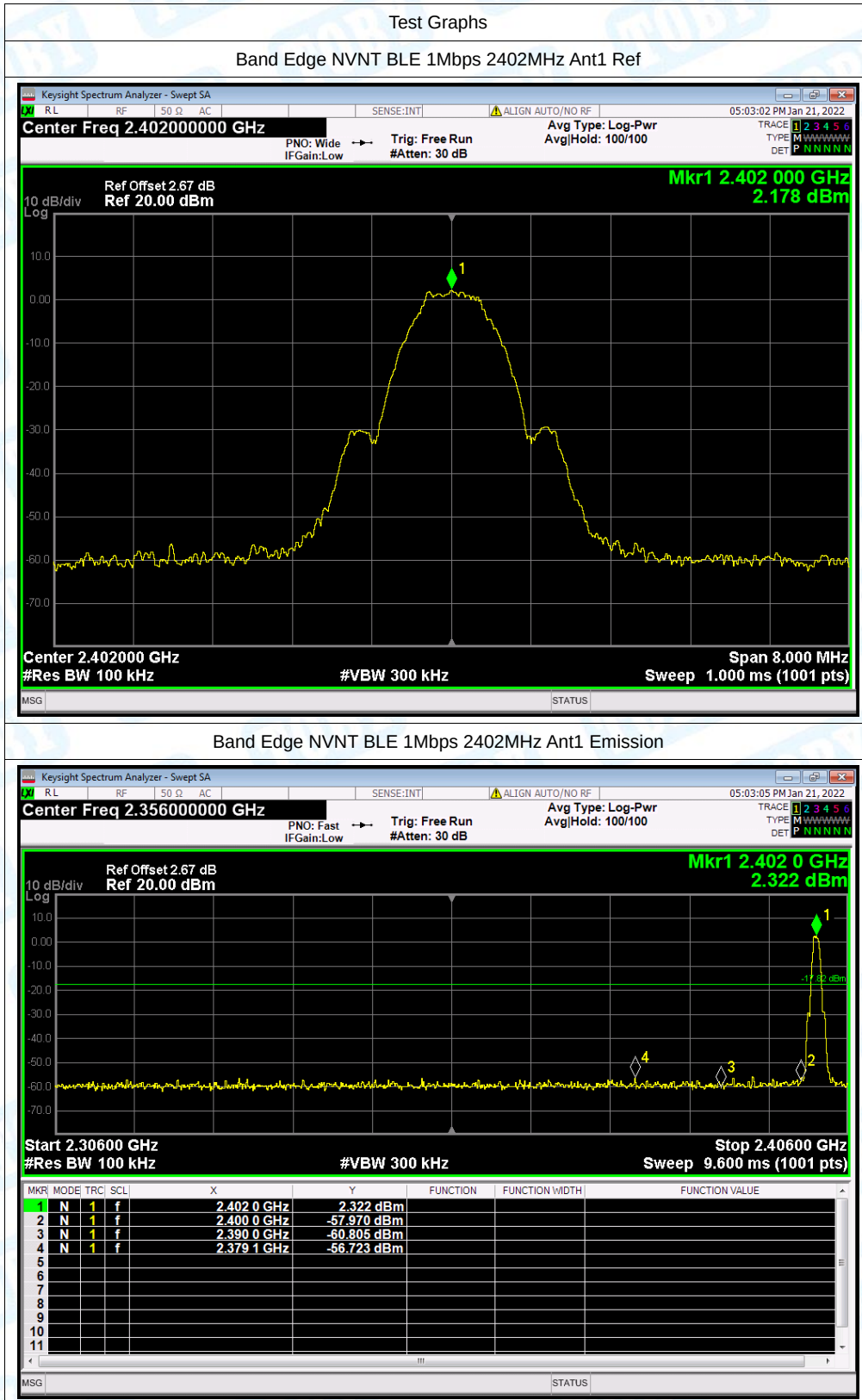




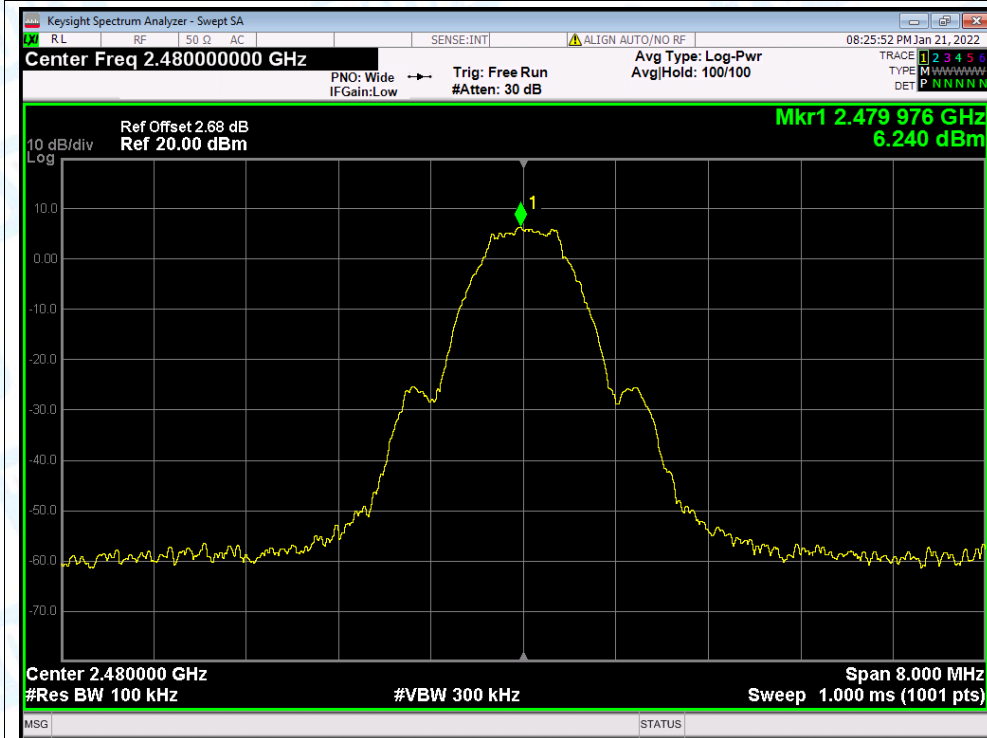


Band Edge

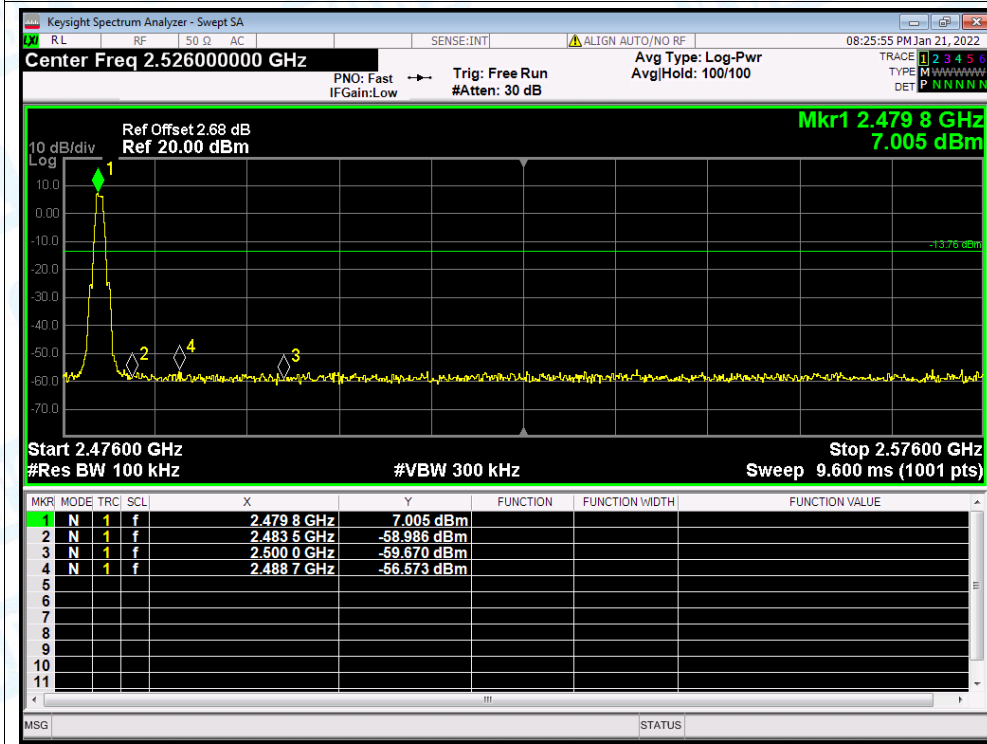
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-58.9	-20	Pass
NVNT	BLE 1Mbps	2480	Ant1	-62.81	-20	Pass
NVNT	BLE 2Mbps	2402	Ant1	-57.09	-20	Pass
NVNT	BLE 2Mbps	2480	Ant1	-60.72	-20	Pass

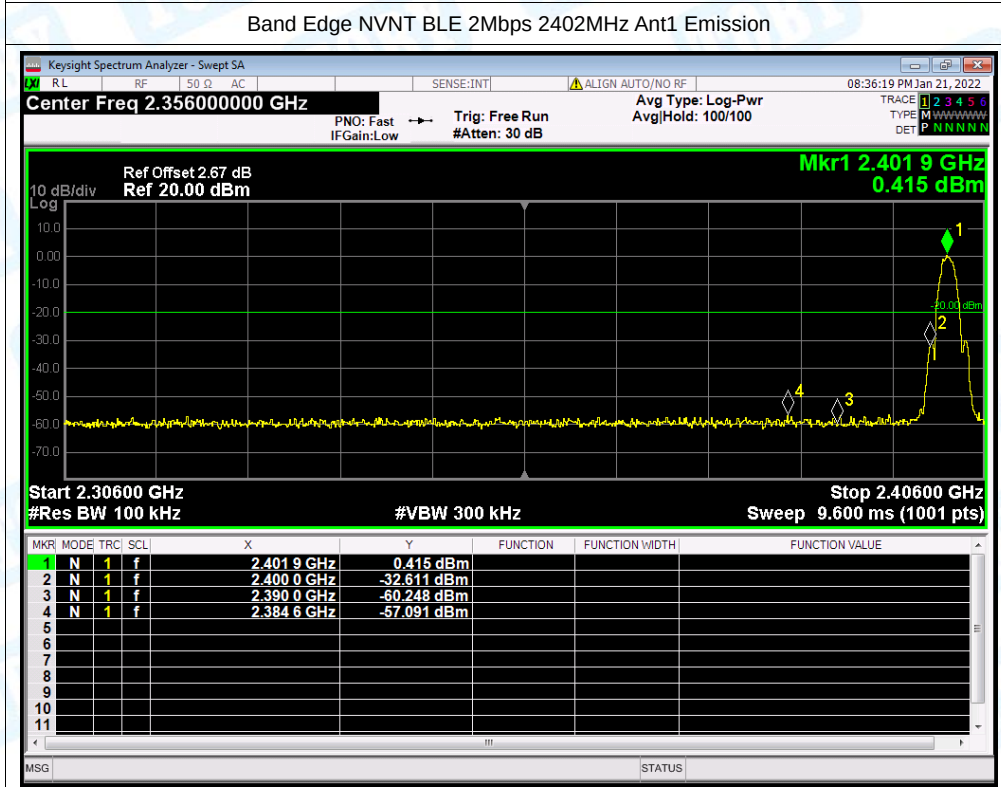
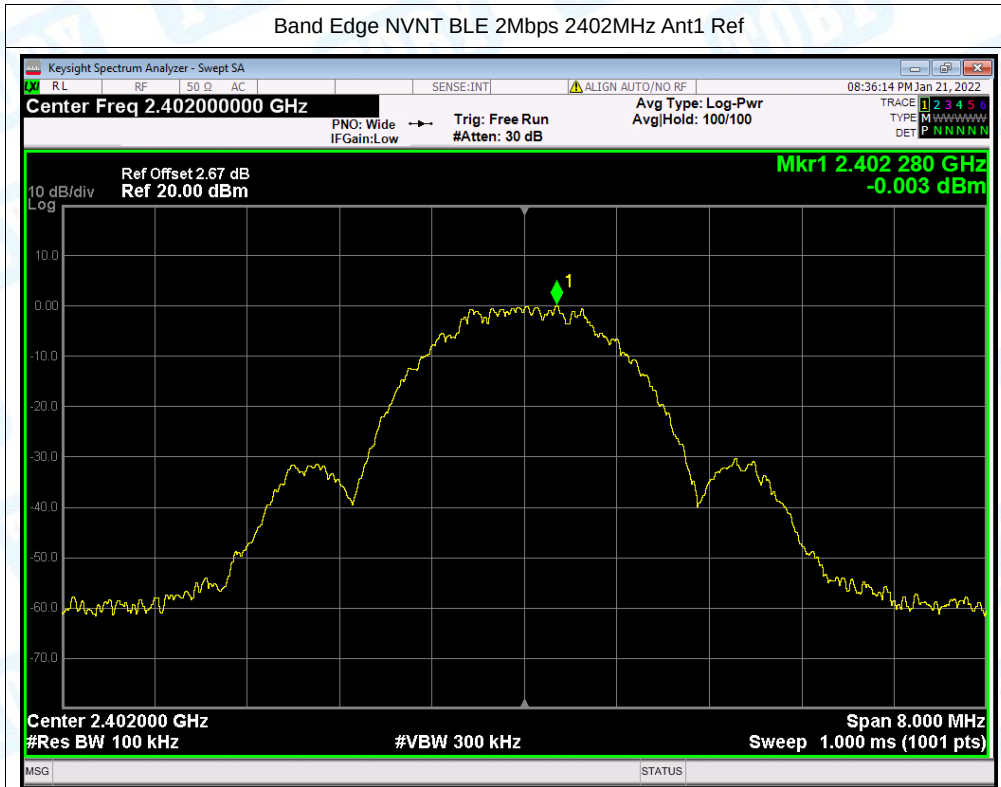


Band Edge NVNT BLE 1Mbps 2480MHz Ant1 Ref



Band Edge NVNT BLE 1Mbps 2480MHz Ant1 Emission

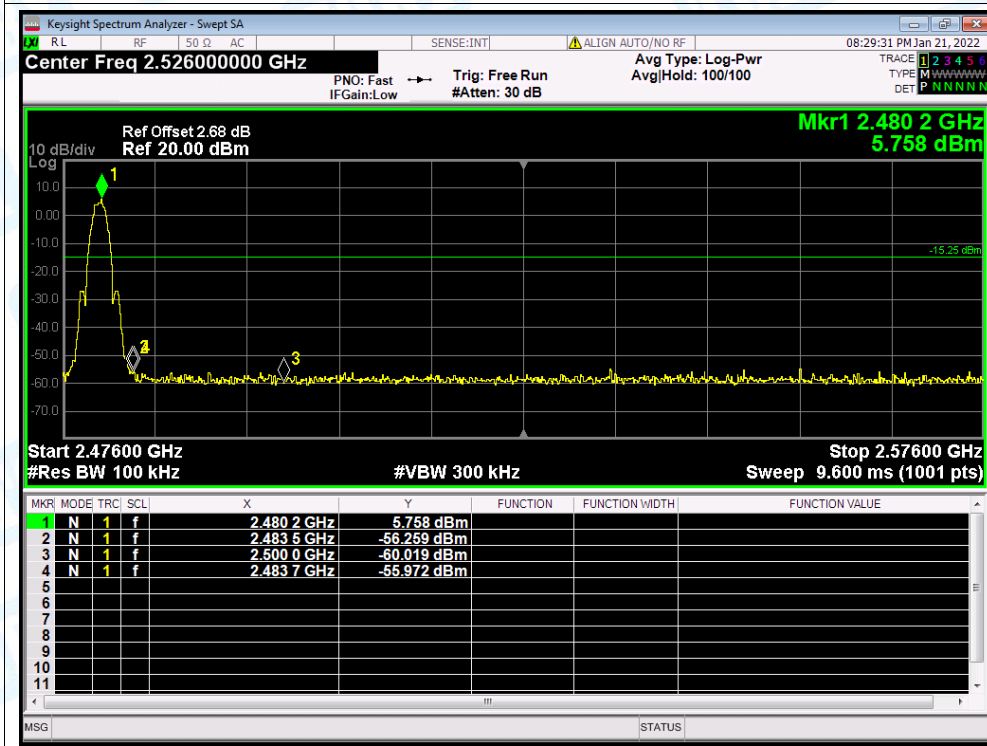




Band Edge NVNT BLE 2Mbps 2480MHz Ant1 Ref



Band Edge NVNT BLE 2Mbps 2480MHz Ant1 Emission

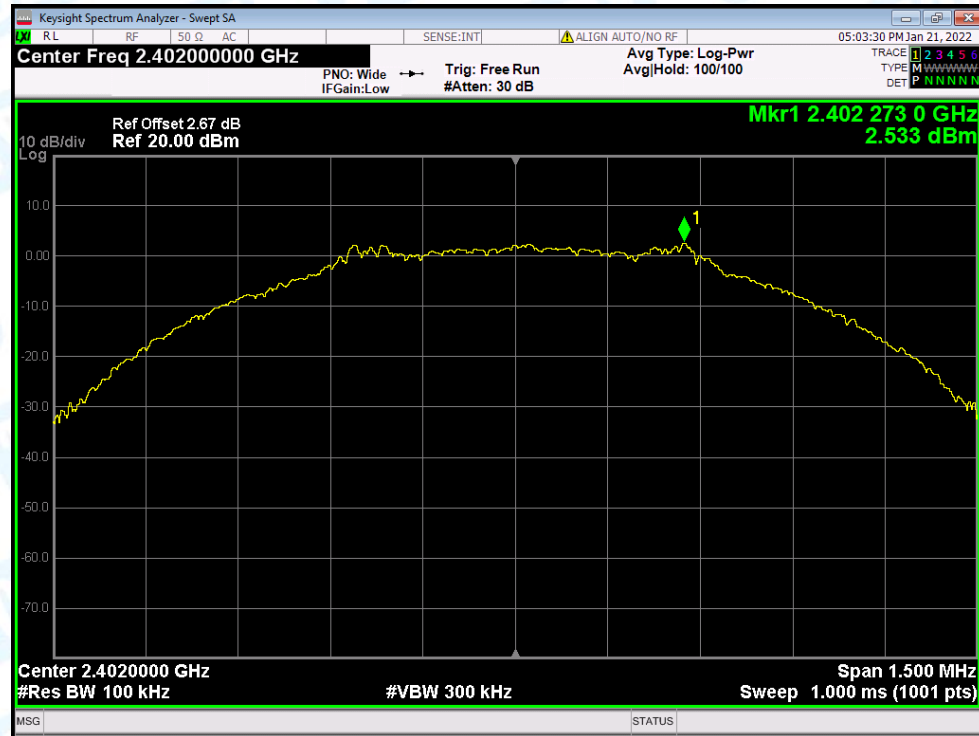


Conducted RF Spurious Emission

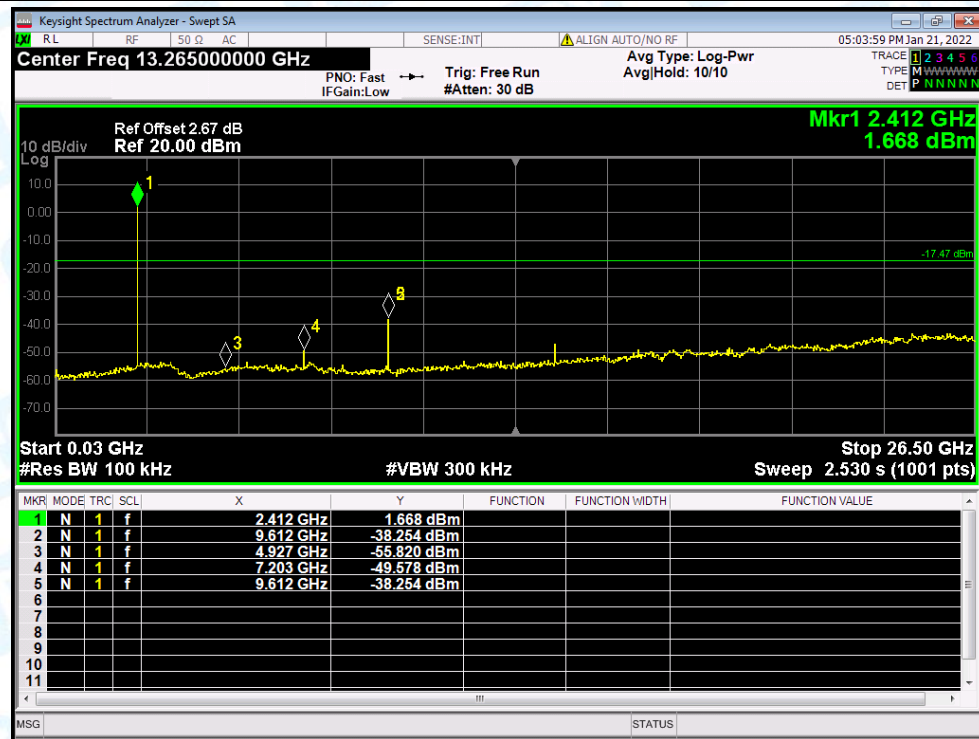
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-40.78	-20	Pass
NVNT	BLE 1Mbps	2442	Ant1	-47.81	-20	Pass
NVNT	BLE 1Mbps	2480	Ant1	-49.94	-20	Pass
NVNT	BLE 2Mbps	2402	Ant1	-42.81	-20	Pass
NVNT	BLE 2Mbps	2442	Ant1	-46.17	-20	Pass
NVNT	BLE 2Mbps	2480	Ant1	-47.96	-20	Pass

Test Graphs

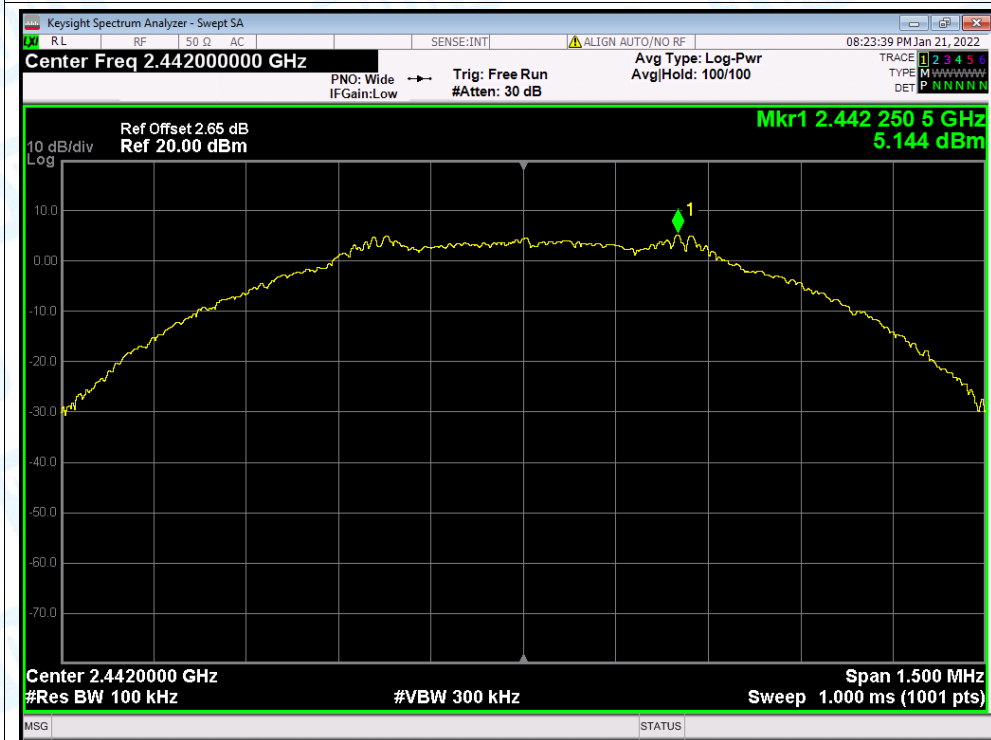
Tx. Spurious NVNT BLE 1Mbps 2402MHz Ant1 Ref



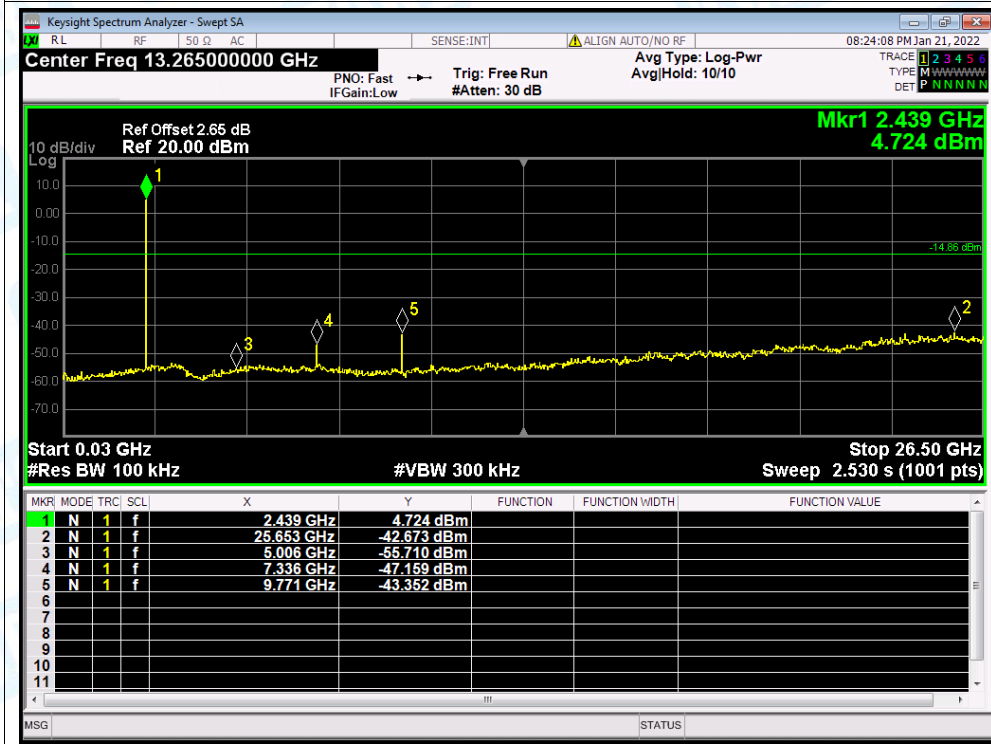
Tx. Spurious NVNT BLE 1Mbps 2402MHz Ant1 Emission



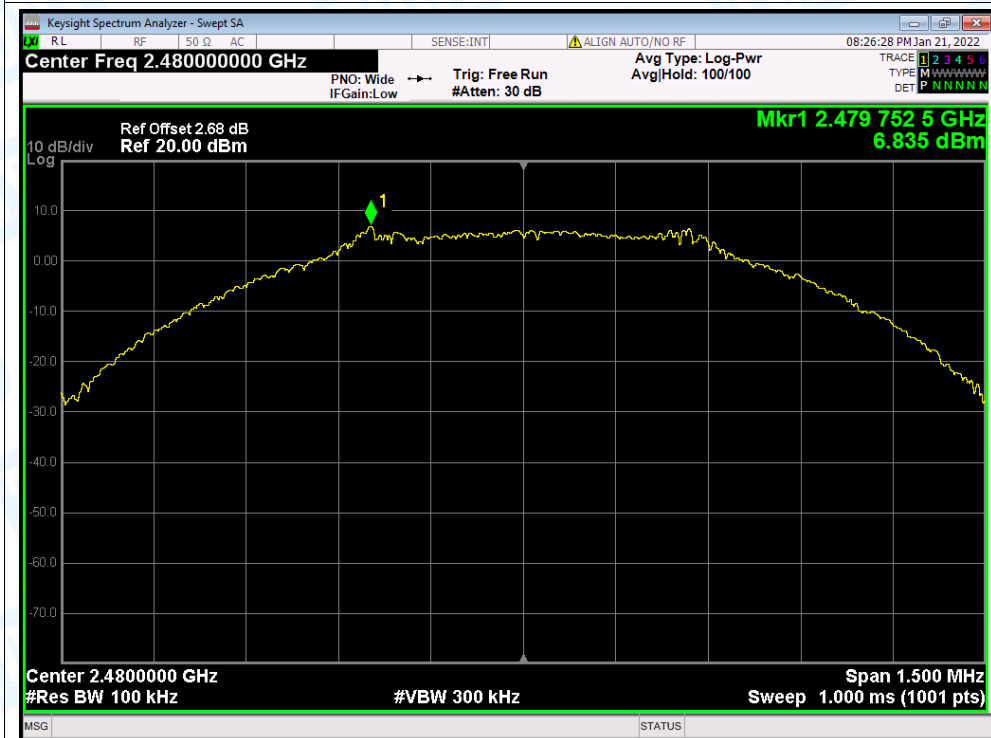
Tx. Spurious NVNT BLE 1Mbps 2442MHz Ant1 Ref



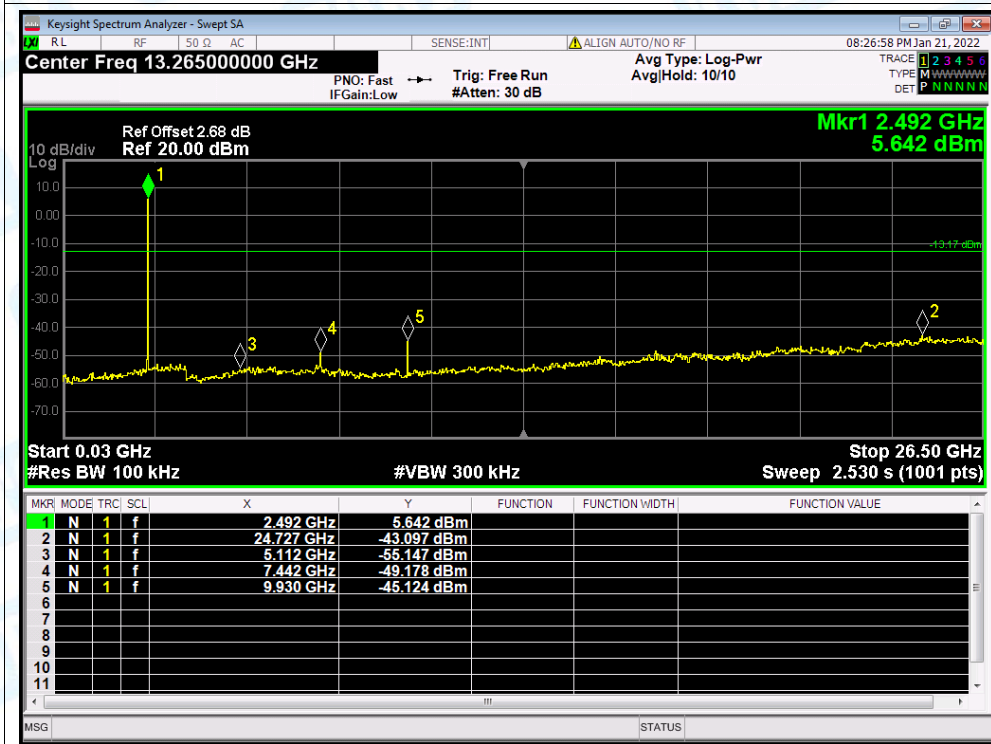
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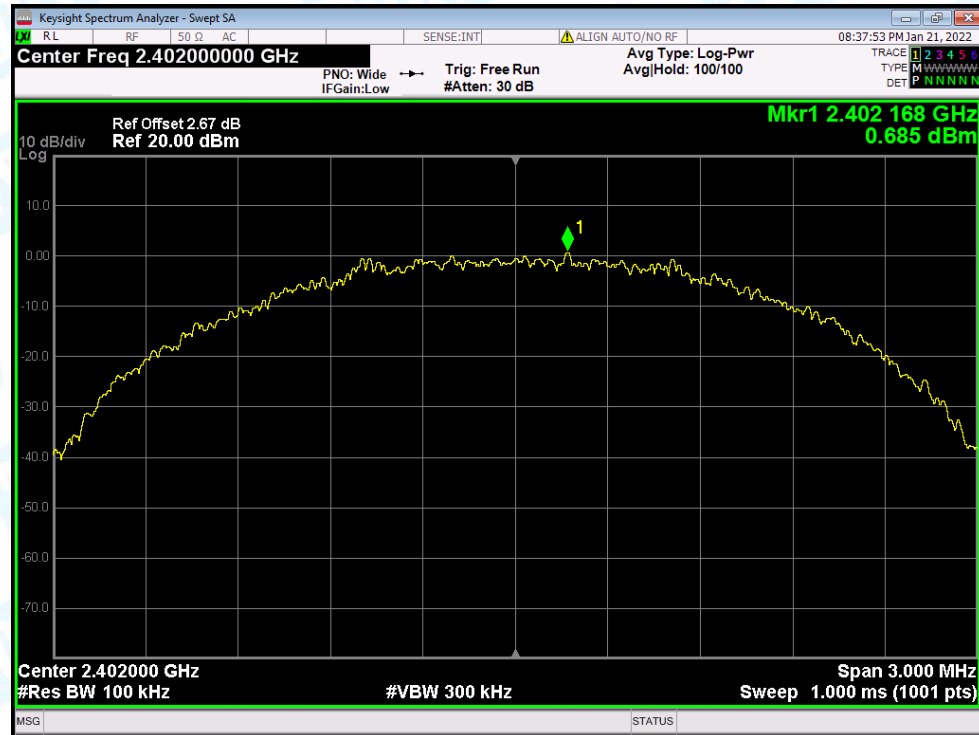
Tx. Spurious NVNT BLE 1Mbps 2480MHz Ant1 Ref



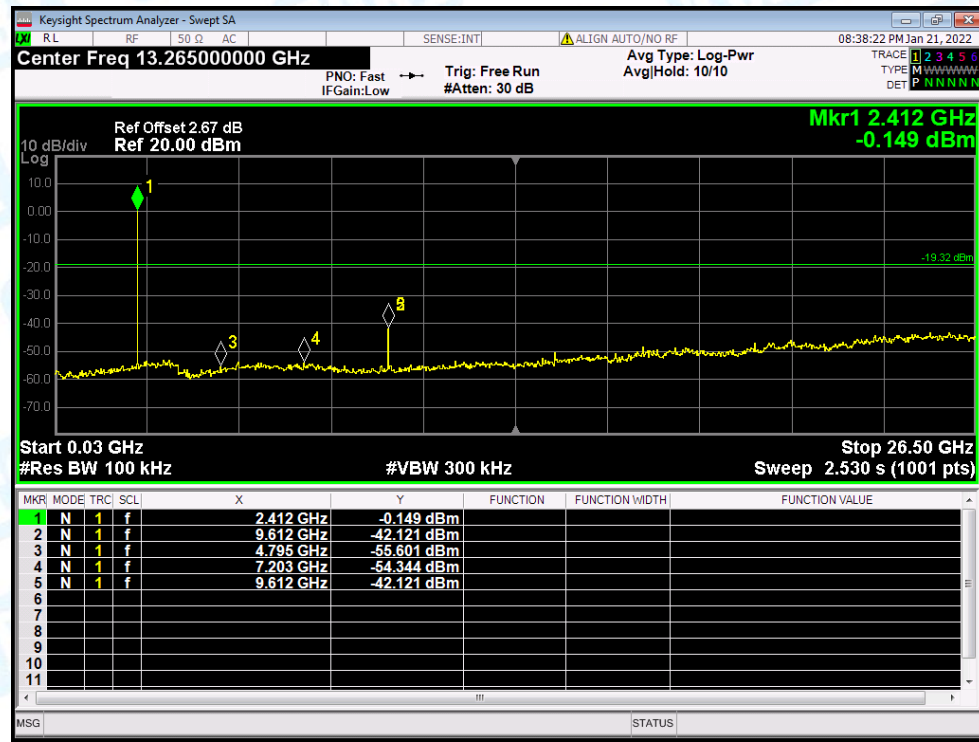
Tx. Spurious NVNT BLE 1Mbps 2480MHz Ant1 Emission



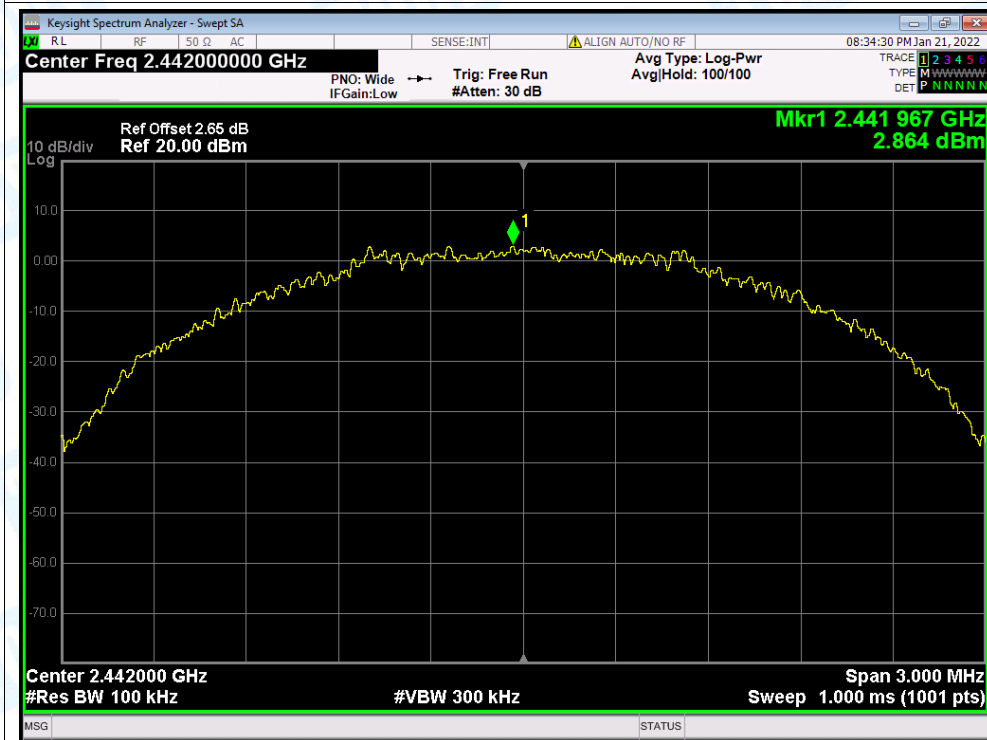
Tx. Spurious NVNT BLE 2Mbps 2402MHz Ant1 Ref



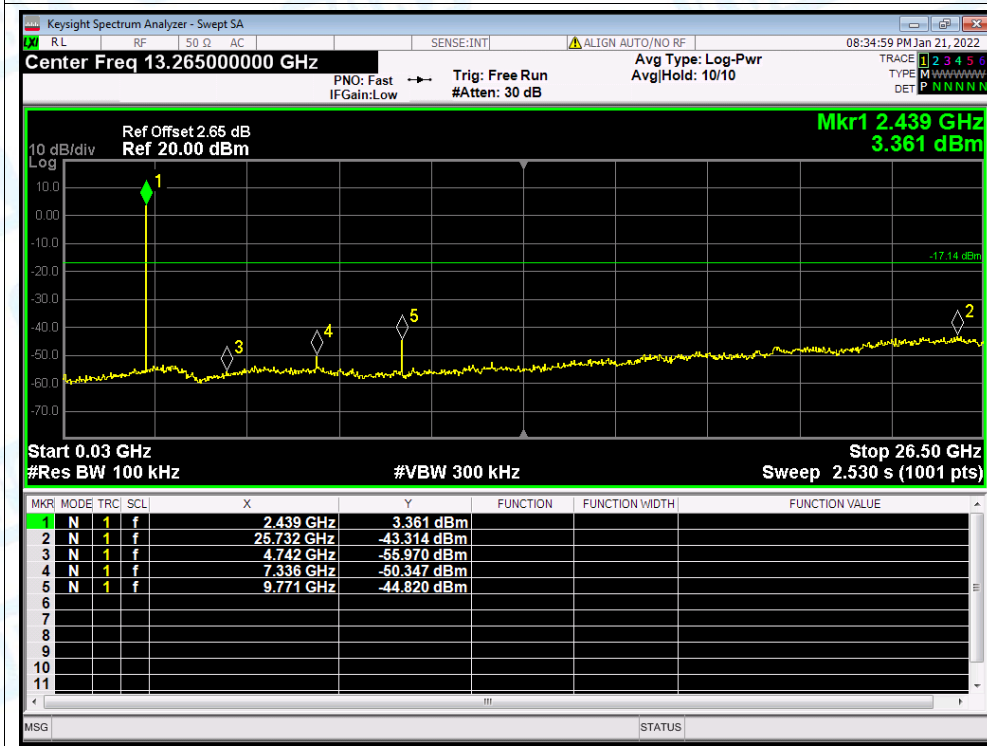
Tx. Spurious NVNT BLE 2Mbps 2402MHz Ant1 Emission



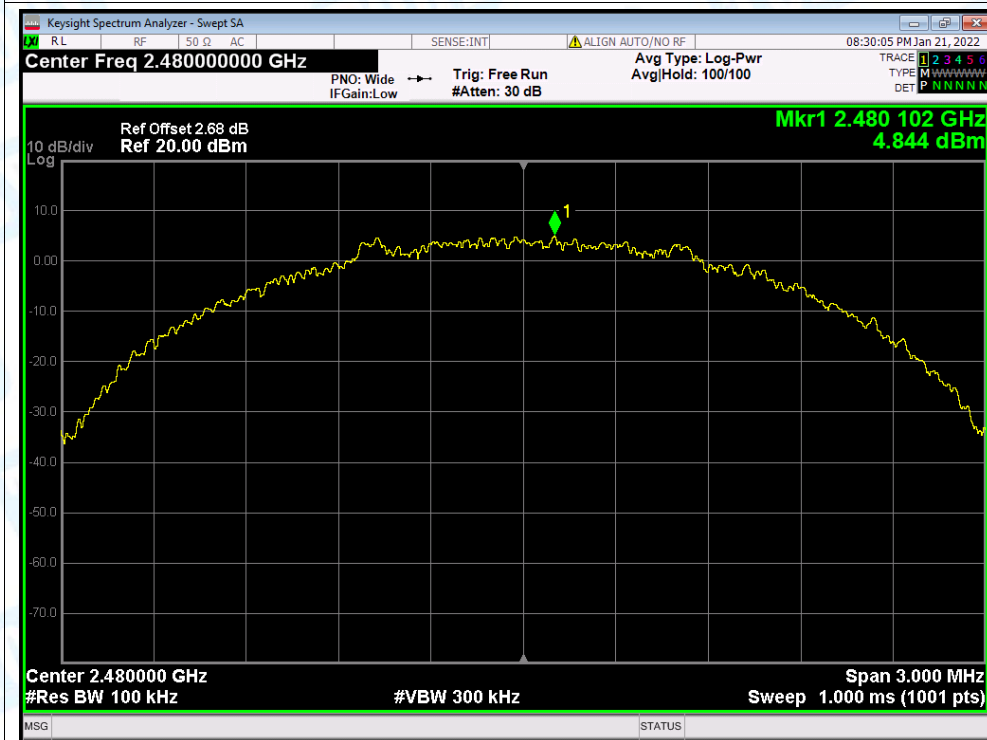
Tx. Spurious NVNT BLE 2Mbps 2442MHz Ant1 Ref



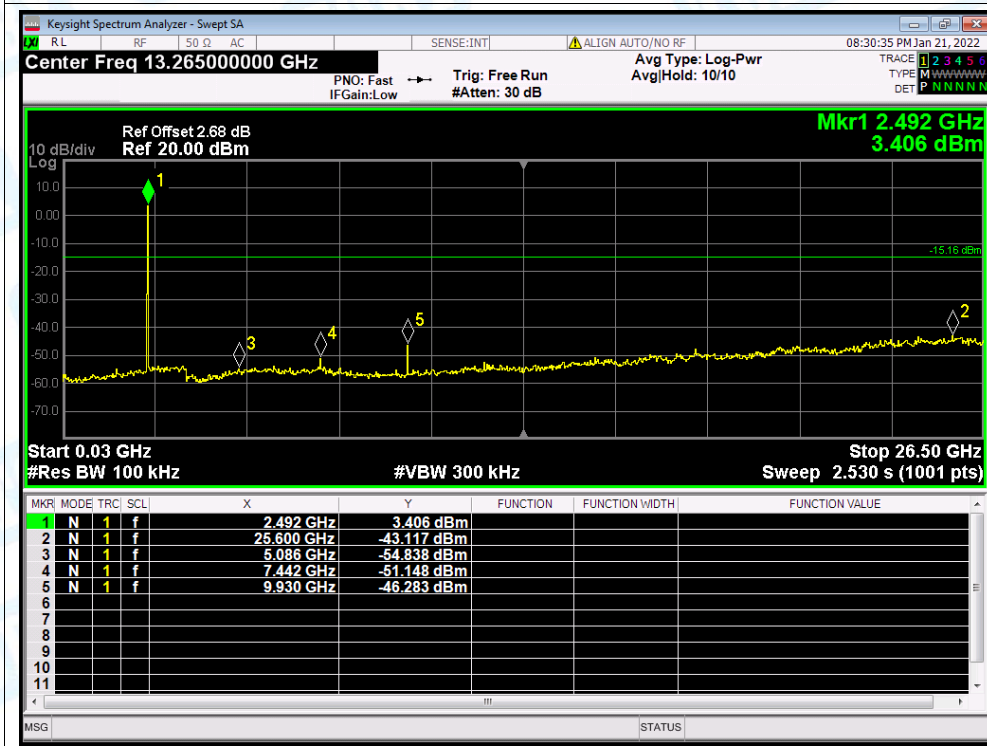
Tx. Spurious NVNT BLE 2Mbps 2442MHz Ant1 Emission



Tx. Spurious NVNT BLE 2Mbps 2480MHz Ant1 Ref



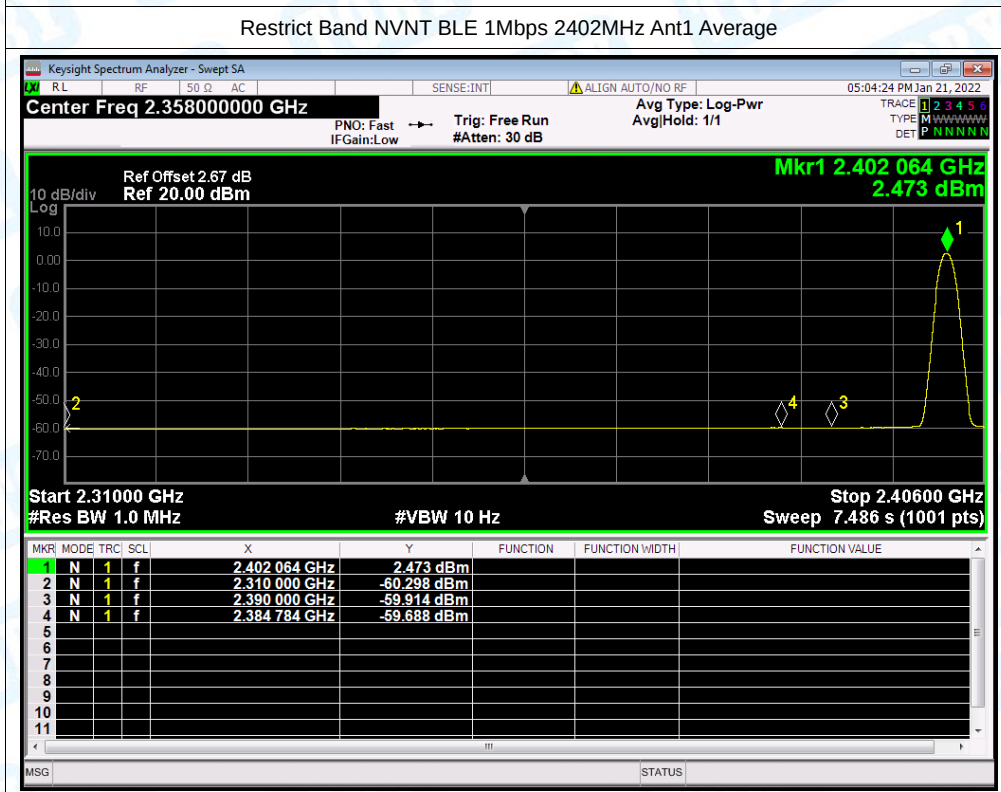
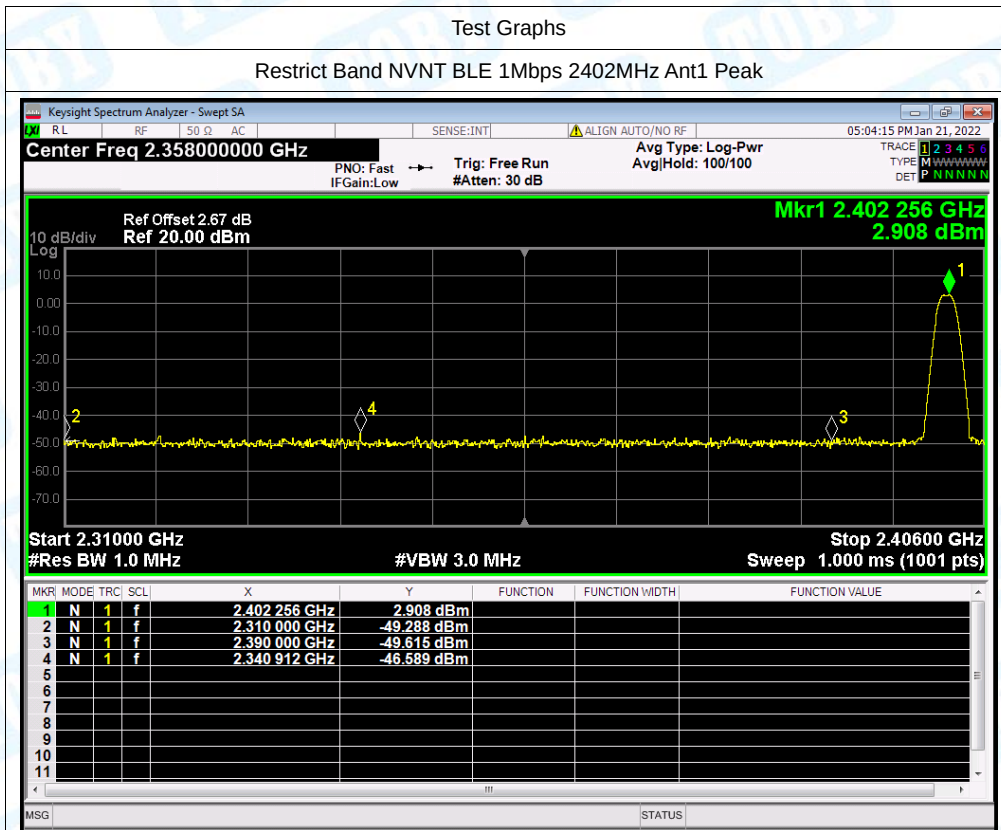
Tx. Spurious NVNT BLE 2Mbps 2480MHz Ant1 Emission



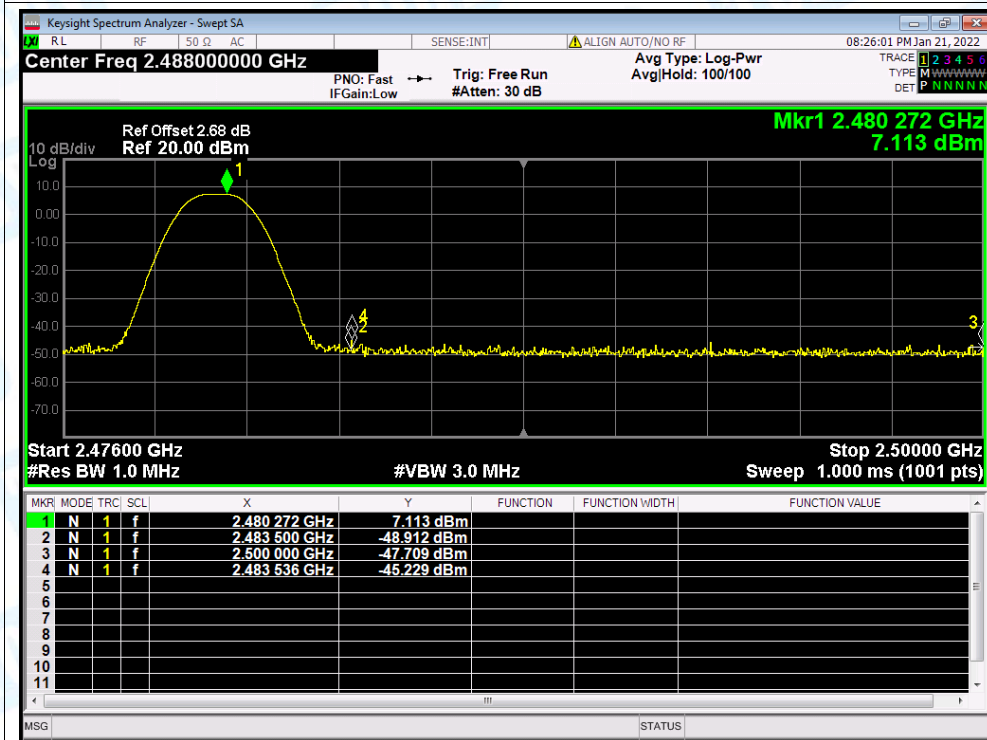
Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	2310	-49.29	2	47.97	Peak	74	Pass
NVNT	BLE 1Mbps	2402	Ant1	2310	-60.3	2	36.96	Average	54	Pass
NVNT	BLE 1Mbps	2402	Ant1	2340.912	-46.59	2	50.67	Peak	74	Pass
NVNT	BLE 1Mbps	2402	Ant1	2384.784	-59.69	2	37.57	Average	54	Pass
NVNT	BLE 1Mbps	2402	Ant1	2390	-50.35	2	46.91	Peak	74	Pass
NVNT	BLE 1Mbps	2402	Ant1	2390	-59.9	2	37.36	Average	54	Pass
NVNT	BLE 1Mbps	2480	Ant1	2483.5	-48.91	2	48.35	Peak	74	Pass
NVNT	BLE 1Mbps	2480	Ant1	2483.5	-58.53	2	38.73	Average	54	Pass
NVNT	BLE 1Mbps	2480	Ant1	2483.536	-45.23	2	52.03	Peak	74	Pass
NVNT	BLE 1Mbps	2480	Ant1	2483.512	-58.53	2	38.73	Average	54	Pass
NVNT	BLE 1Mbps	2480	Ant1	2500	-47.71	2	49.55	Peak	74	Pass
NVNT	BLE 1Mbps	2480	Ant1	2500	-59.41	2	37.85	Average	54	Pass
NVNT	BLE 2Mbps	2402	Ant1	2310	-51.26	2	46	Peak	74	Pass
NVNT	BLE 2Mbps	2402	Ant1	2310	-60.31	2	36.95	Average	54	Pass
NVNT	BLE 2Mbps	2402	Ant1	2333.52	-46.85	2	50.41	Peak	74	Pass
NVNT	BLE 2Mbps	2402	Ant1	2389.872	-59.92	2	37.34	Average	54	Pass
NVNT	BLE 2Mbps	2402	Ant1	2390	-50.84	2	46.42	Peak	74	Pass
NVNT	BLE 2Mbps	2402	Ant1	2390	-59.93	2	37.33	Average	54	Pass
NVNT	BLE 2Mbps	2480	Ant1	2483.5	-44.42	2	52.84	Peak	74	Pass
NVNT	BLE 2Mbps	2480	Ant1	2483.5	-52.84	2	44.42	Average	54	Pass
NVNT	BLE 2Mbps	2480	Ant1	2483.536	-43.22	2	54.04	Peak	74	Pass
NVNT	BLE 2Mbps	2480	Ant1	2483.512	-52.84	2	44.42	Average	54	Pass

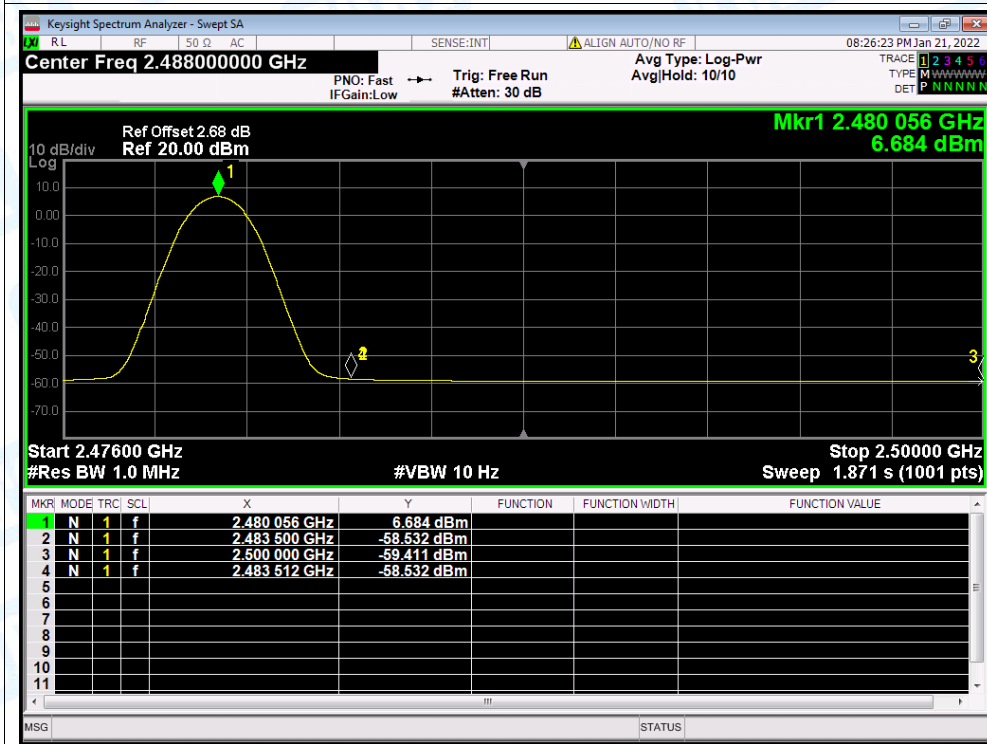
NVNT	BLE 2Mbps	2480	Ant1	2500	-49.72	2	47.54	Peak	74	Pass
NVNT	BLE 2Mbps	2480	Ant1	2500	-59.38	2	37.88	Average	54	Pass



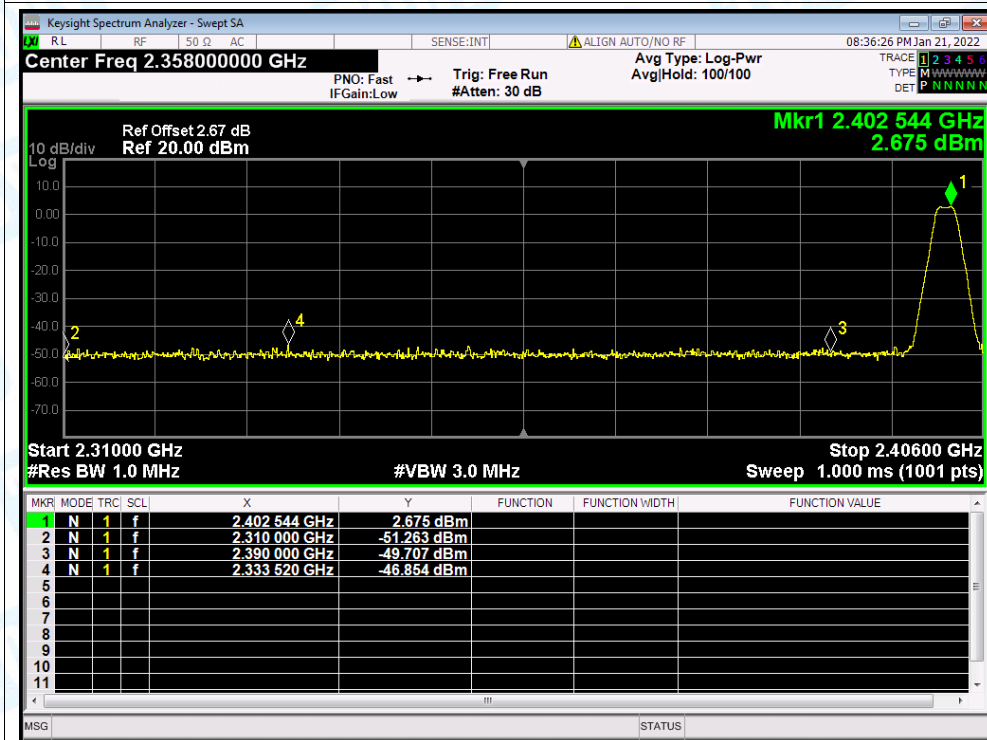
Restrict Band NVNT BLE 1Mbps 2480MHz Ant1 Peak



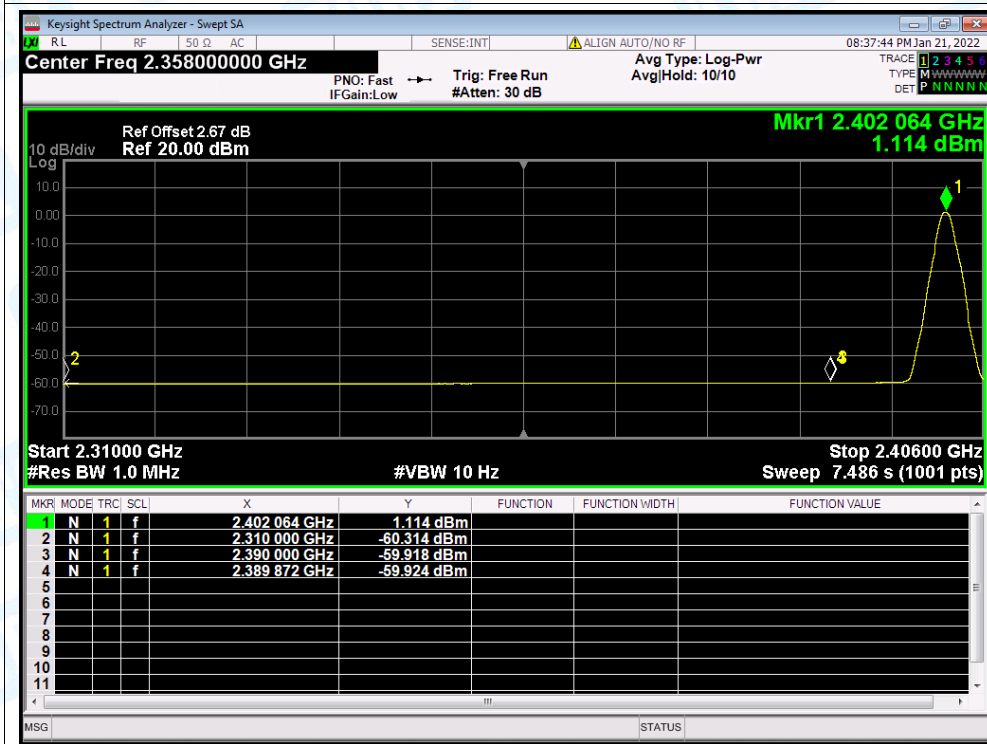
Restrict Band NVNT BLE 1Mbps 2480MHz Ant1 Average



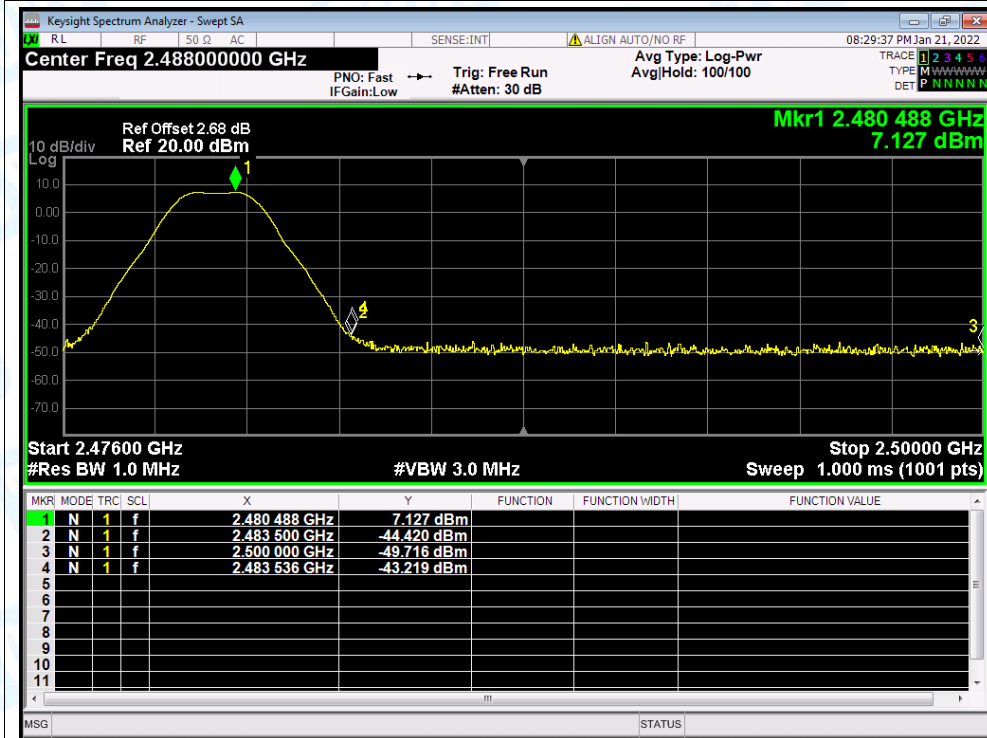
Restrict Band NVNT BLE 2Mbps 2402MHz Ant1 Peak



Restrict Band NVNT BLE 2Mbps 2402MHz Ant1 Average



Restrict Band NVNT BLE 2Mbps 2480MHz Ant1 Peak



Restrict Band NVNT BLE 2Mbps 2480MHz Ant1 Average

