

# RF Test Data for 2.4G WiFi (Conducted Measurements)

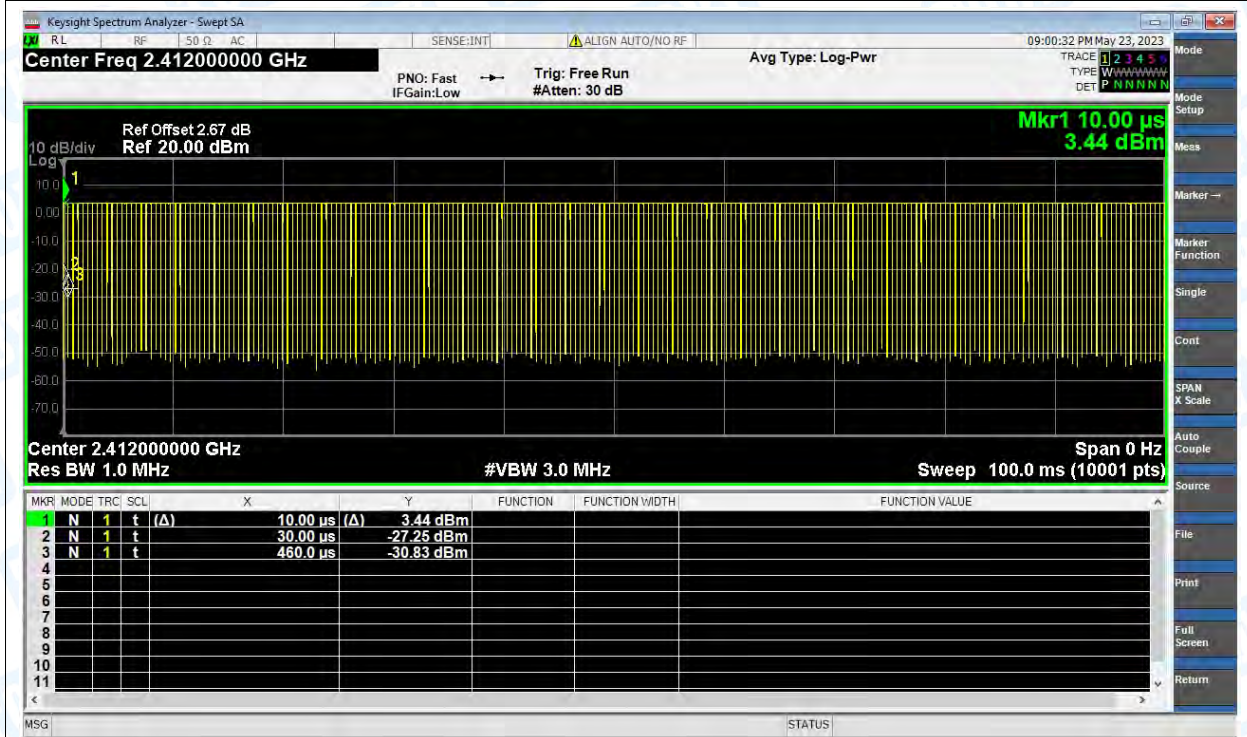
General Description of EUT	
<b>Product Name:</b>	P6
<b>Test Model:</b>	P6
<b>Sample ID:</b>	202305-0002-3-2#
Environmental Conditions	
<b>Temperature:</b>	24°C
<b>Relative Humidity:</b>	50%
<b>Test Voltage:</b>	AC 120V
<b>Test Engineer:</b>	Rick.Chen
Note: For a more detailed features description, please refer to the report TBR-C-202305-0002-61 The report only show the worst case data.	

## Duty Cycle

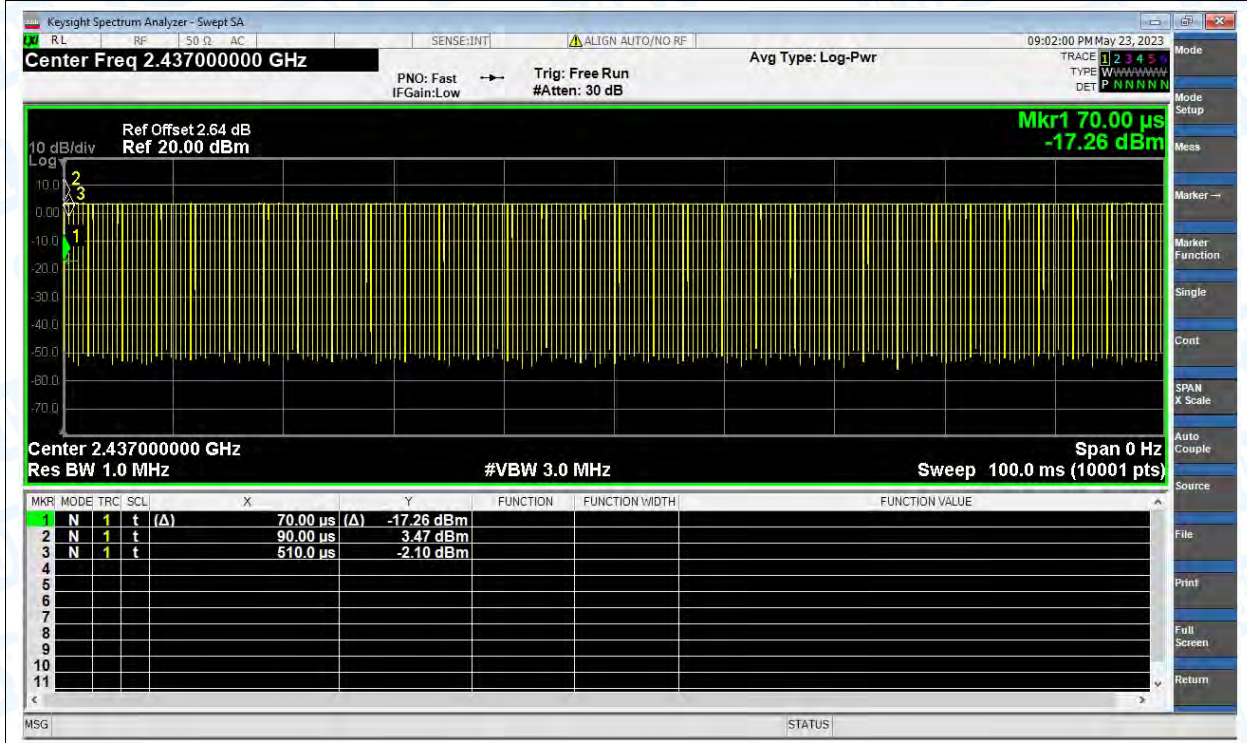
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	95.56	0.2	2.33
NVNT	b	2437	Ant1	95.45	0.2	2.38
NVNT	b	2462	Ant1	95.45	0.2	2.38
NVNT	g	2412	Ant1	66.67	1.76	16.67
NVNT	g	2437	Ant1	66.67	1.76	16.67
NVNT	g	2462	Ant1	70	1.55	14.29
NVNT	n(HT20)	2412	Ant1	70	1.55	14.29
NVNT	n(HT20)	2437	Ant1	72.73	1.38	12.5
NVNT	n(HT20)	2462	Ant1	70	1.55	14.29

Test Graphs

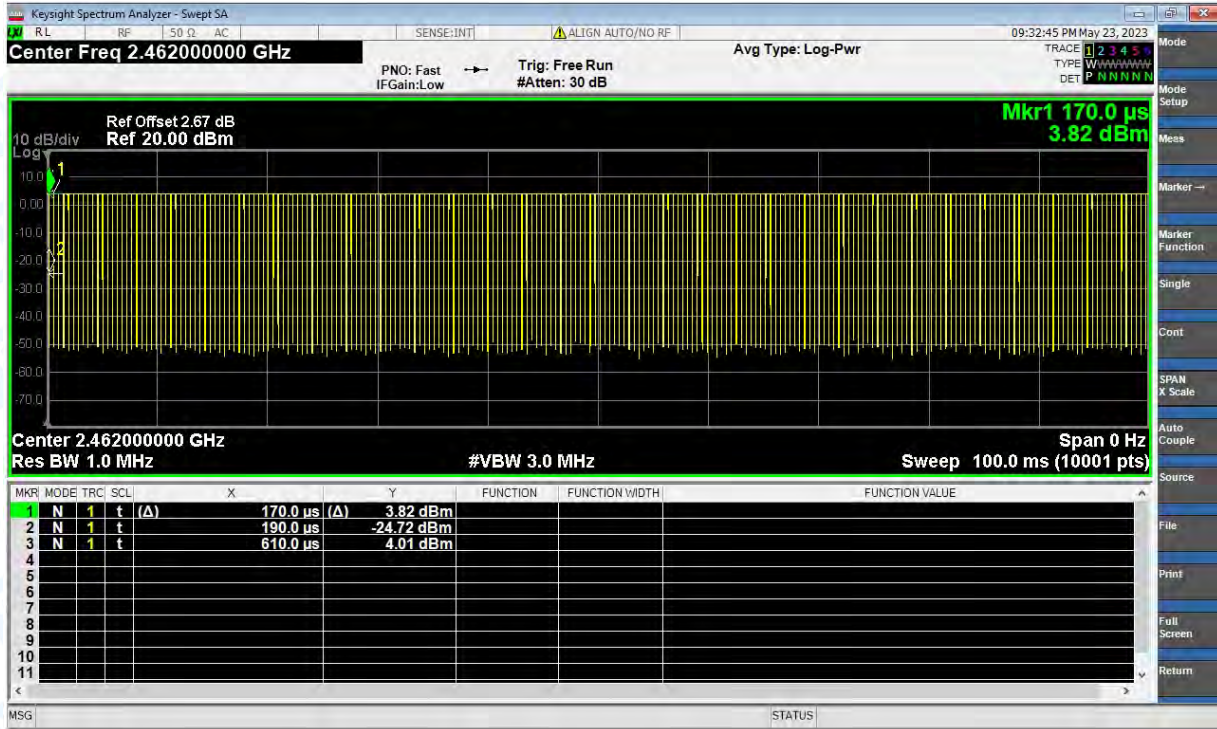
Duty Cycle NVNT b 2412MHz Ant1



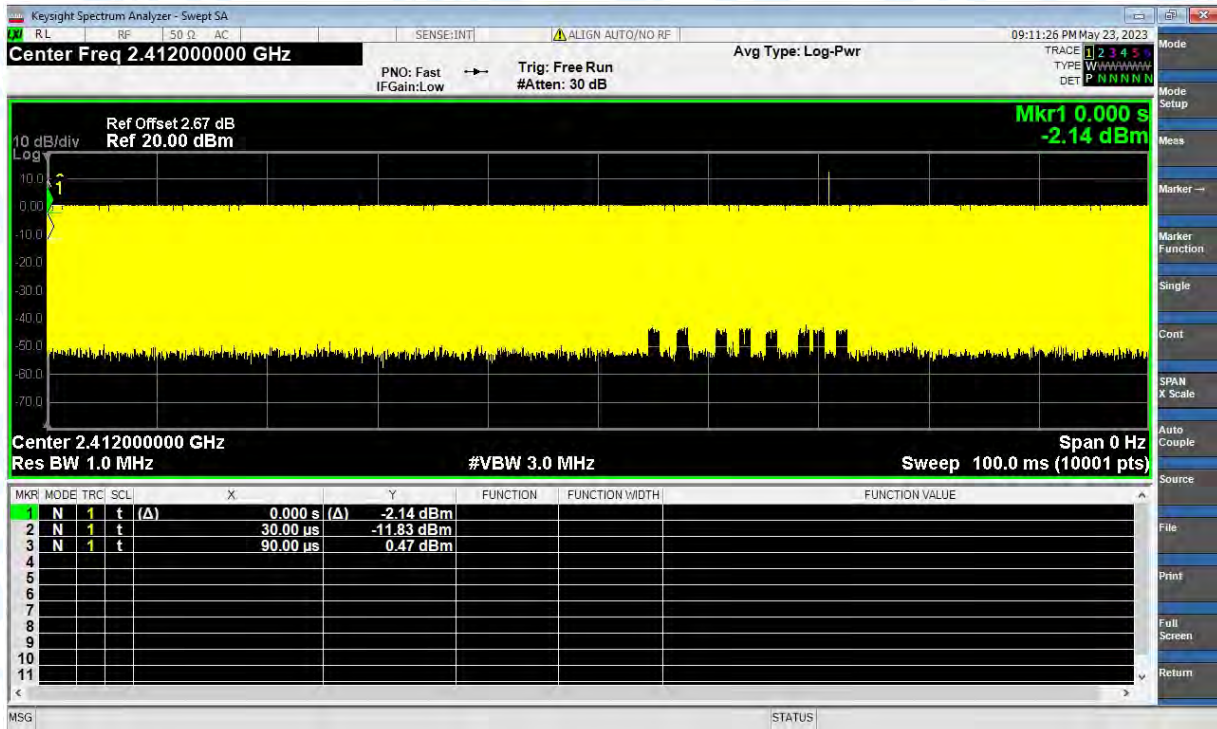
Duty Cycle NVNT b 2437MHz Ant1



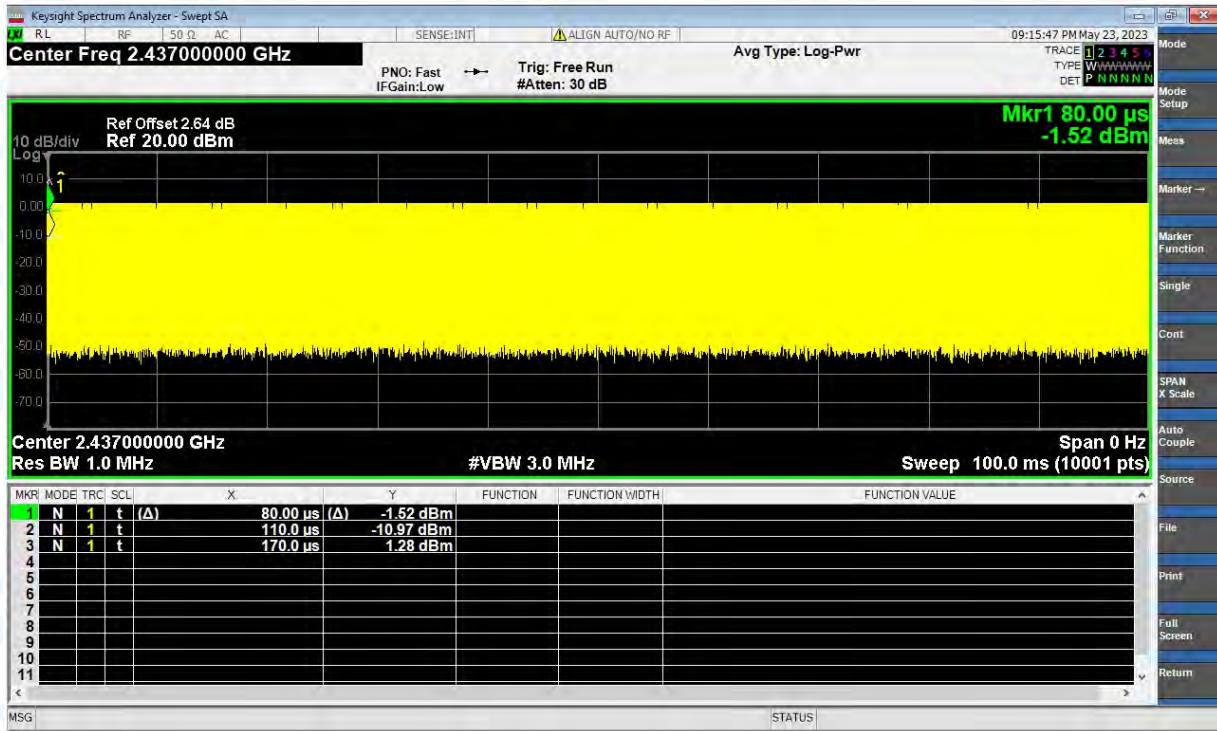
Duty Cycle NVNT b 2462MHz Ant1



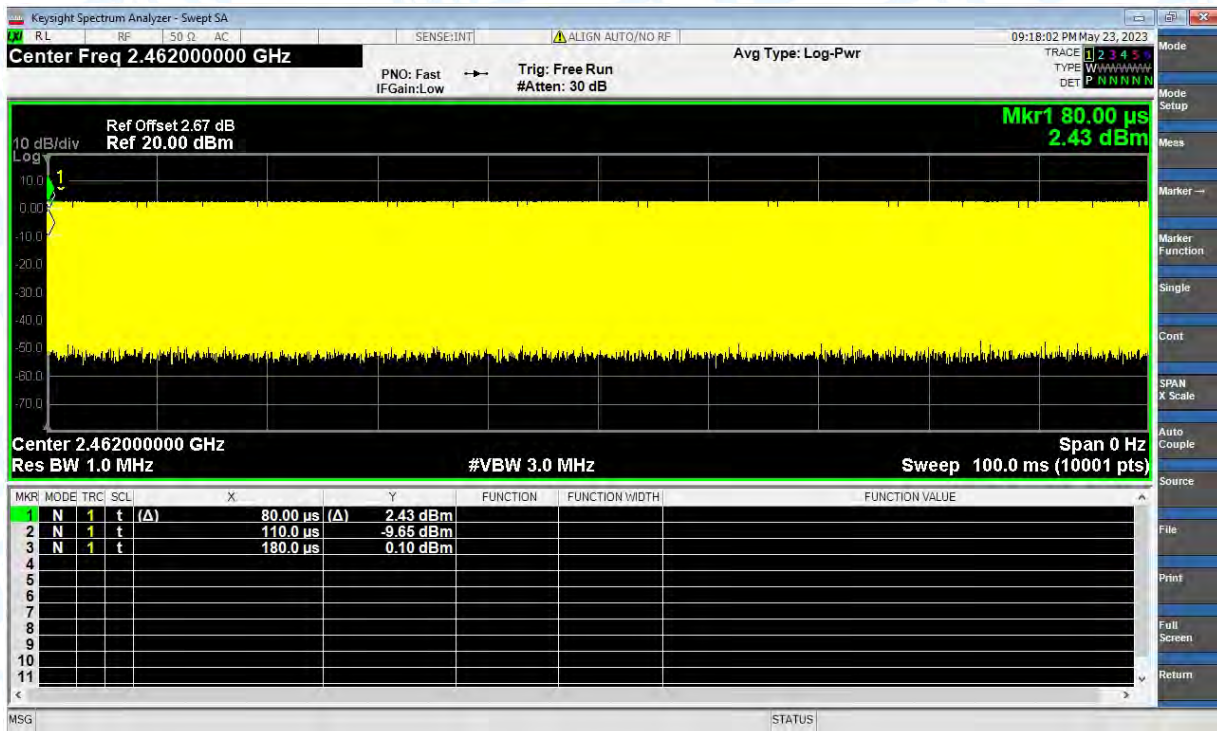
Duty Cycle NVNT g 2412MHz Ant1



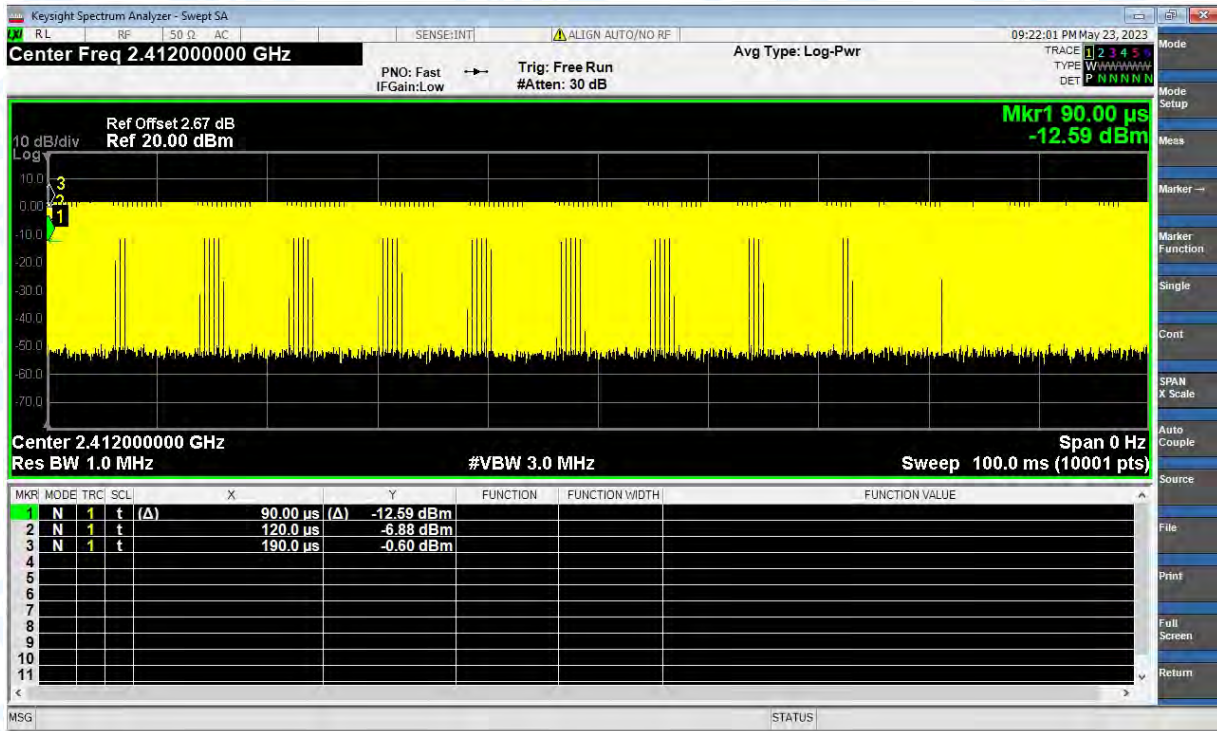
Duty Cycle NVNT g 2437MHz Ant1



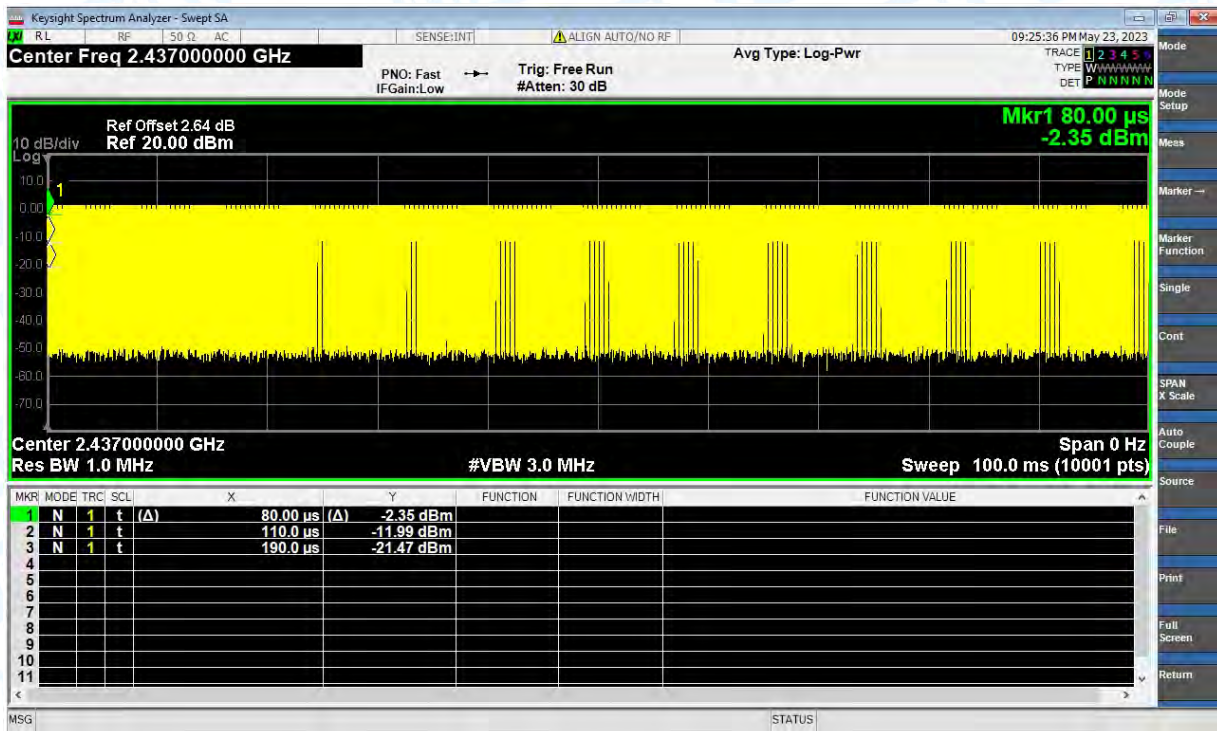
Duty Cycle NVNT g 2462MHz Ant1

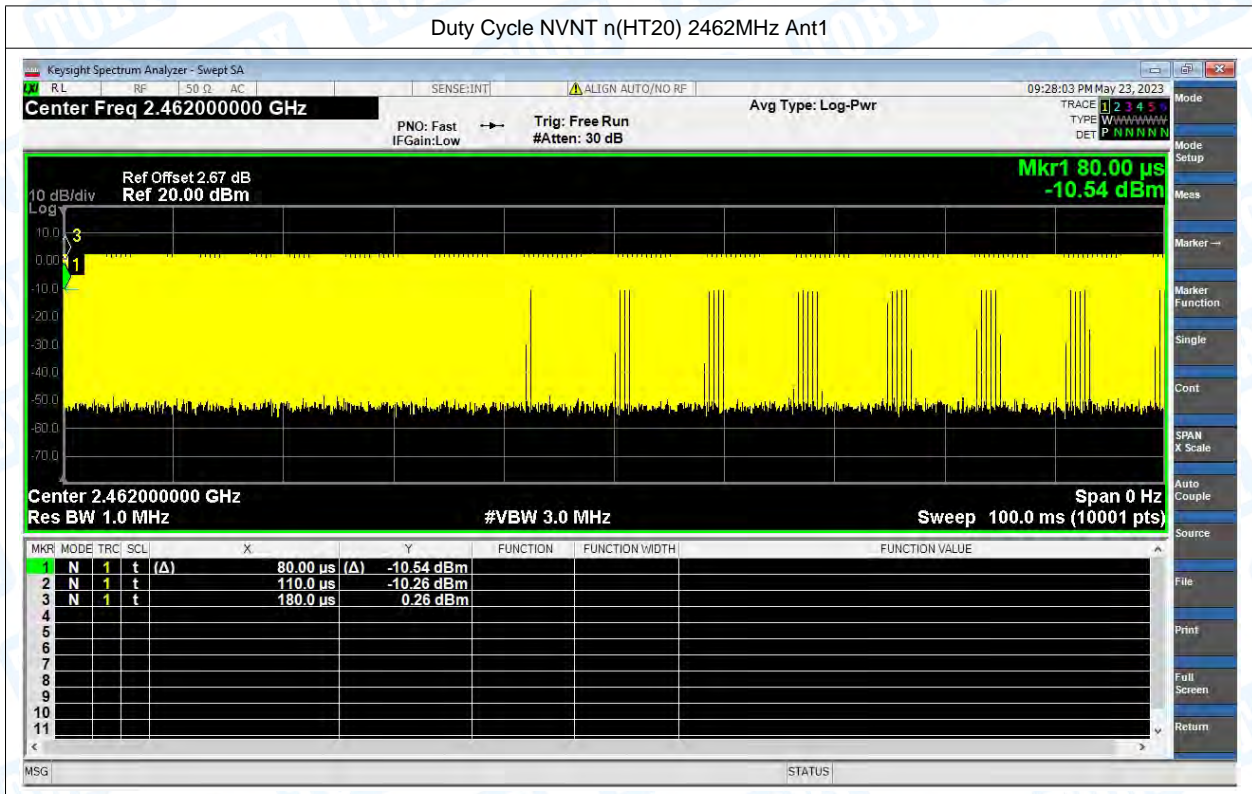


Duty Cycle NVNT n(HT20) 2412MHz Ant1



Duty Cycle NVNT n(HT20) 2437MHz Ant1





## Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	10.011	30	Pass
NVNT	b	2437	Ant1	9.769	30	Pass
NVNT	b	2462	Ant1	10.254	30	Pass
NVNT	g	2412	Ant1	7.135	30	Pass
NVNT	g	2437	Ant1	7.081	30	Pass
NVNT	g	2462	Ant1	8.08	30	Pass
NVNT	n(HT20)	2412	Ant1	7.143	30	Pass
NVNT	n(HT20)	2437	Ant1	6.882	30	Pass
NVNT	n(HT20)	2462	Ant1	8.28	30	Pass

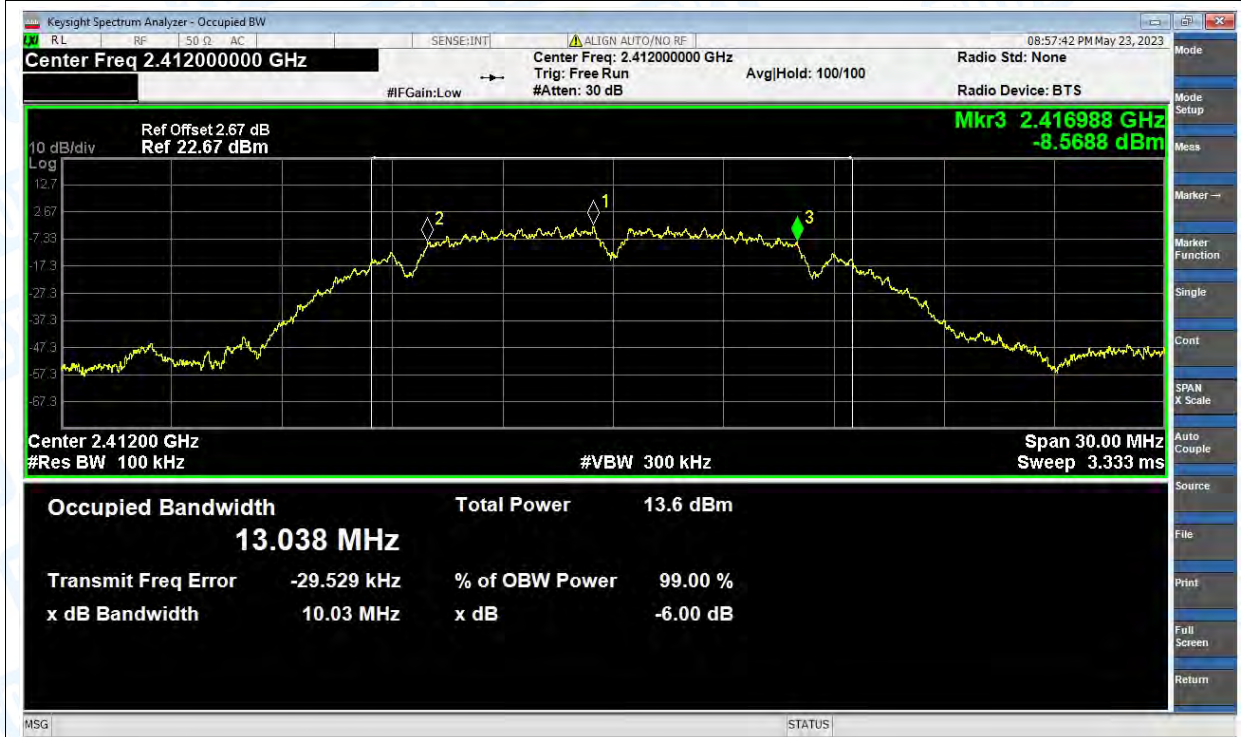


## -6dB Bandwidth

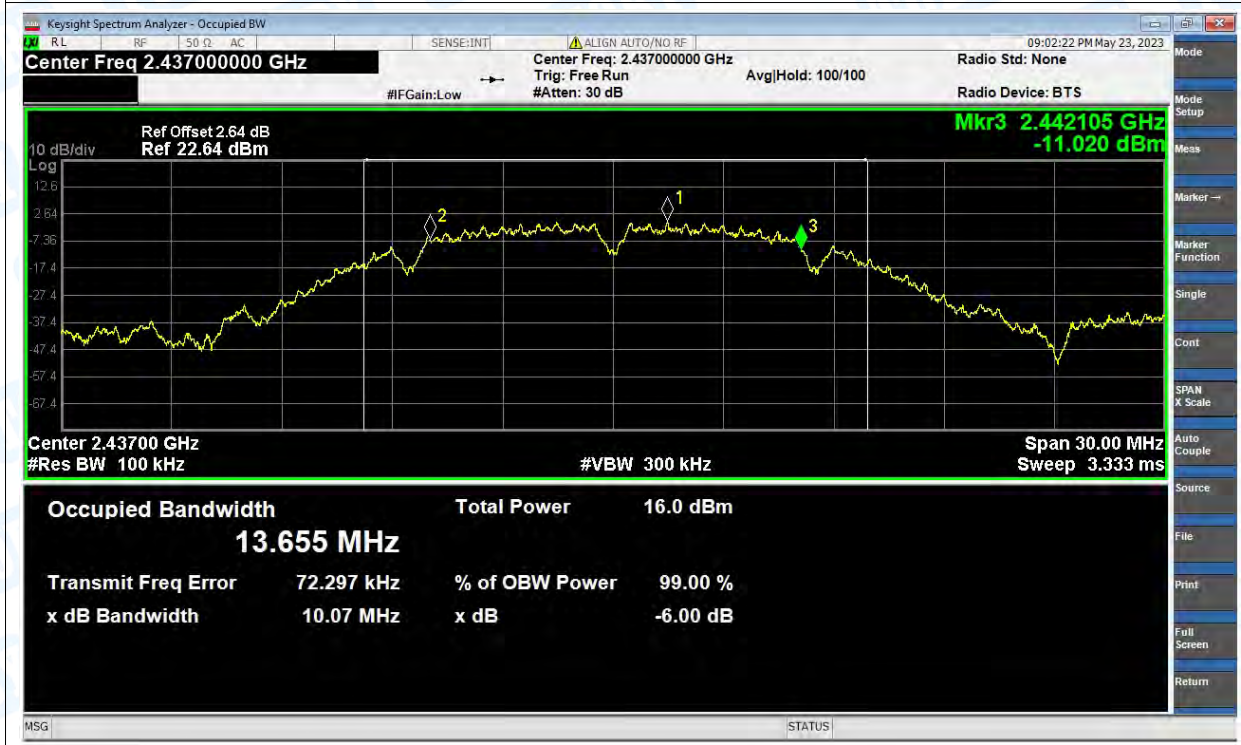
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	10.03	0.5	Pass
NVNT	b	2437	Ant1	10.07	0.5	Pass
NVNT	b	2462	Ant1	10.06	0.5	Pass
NVNT	g	2412	Ant1	16.1	0.5	Pass
NVNT	g	2437	Ant1	16.08	0.5	Pass
NVNT	g	2462	Ant1	16.07	0.5	Pass
NVNT	n(HT20)	2412	Ant1	15.98	0.5	Pass
NVNT	n(HT20)	2437	Ant1	16.2	0.5	Pass
NVNT	n(HT20)	2462	Ant1	16.19	0.5	Pass

Test Graphs

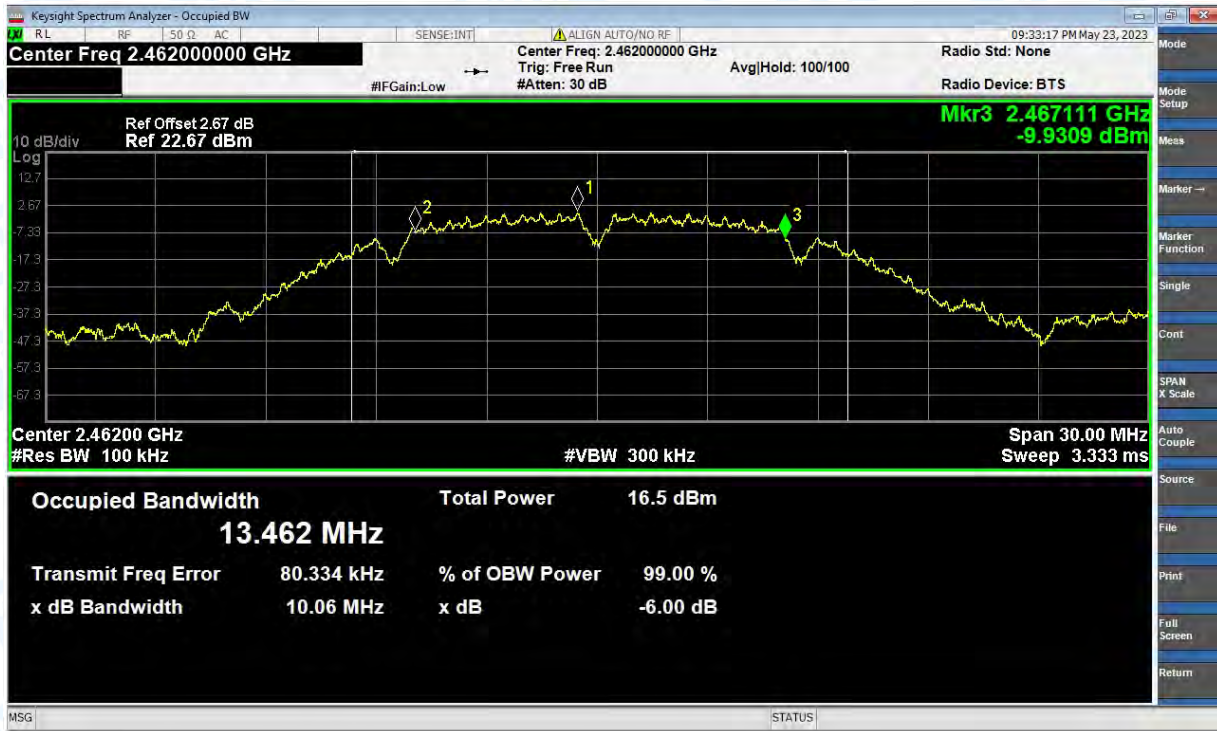
-6dB Bandwidth NVNT b 2412MHz Ant1



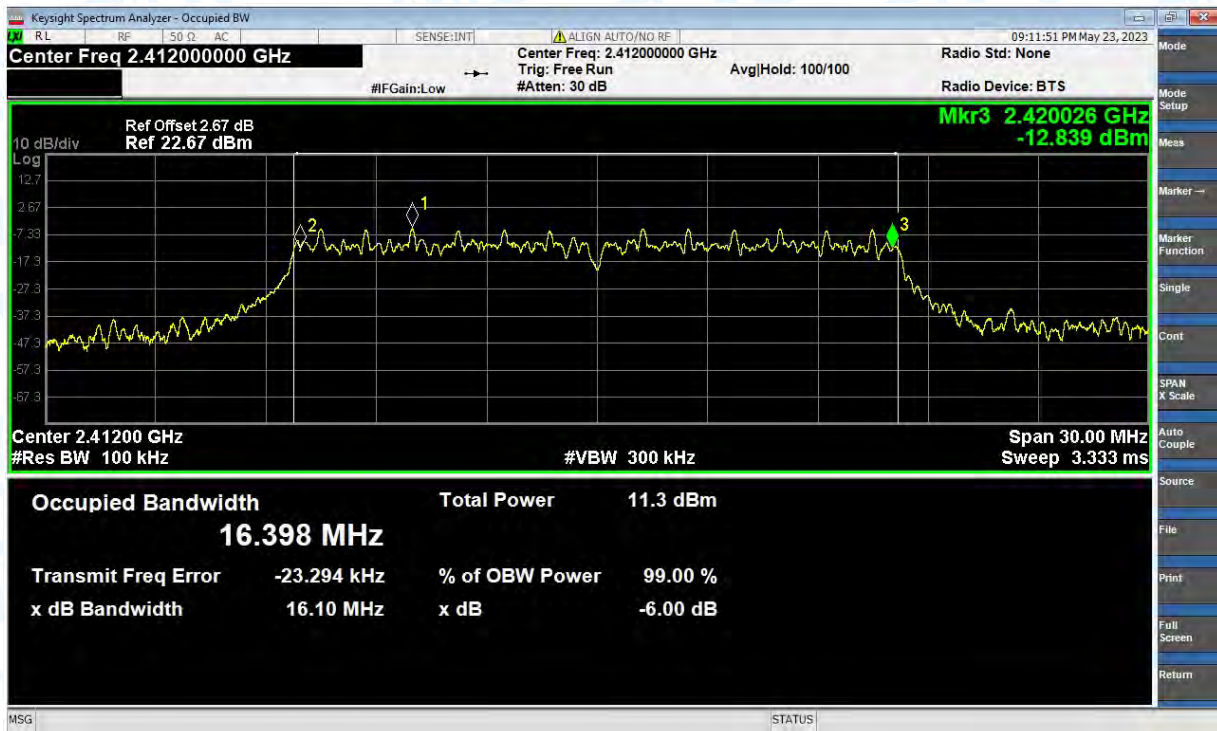
-6dB Bandwidth NVNT b 2437MHz Ant1



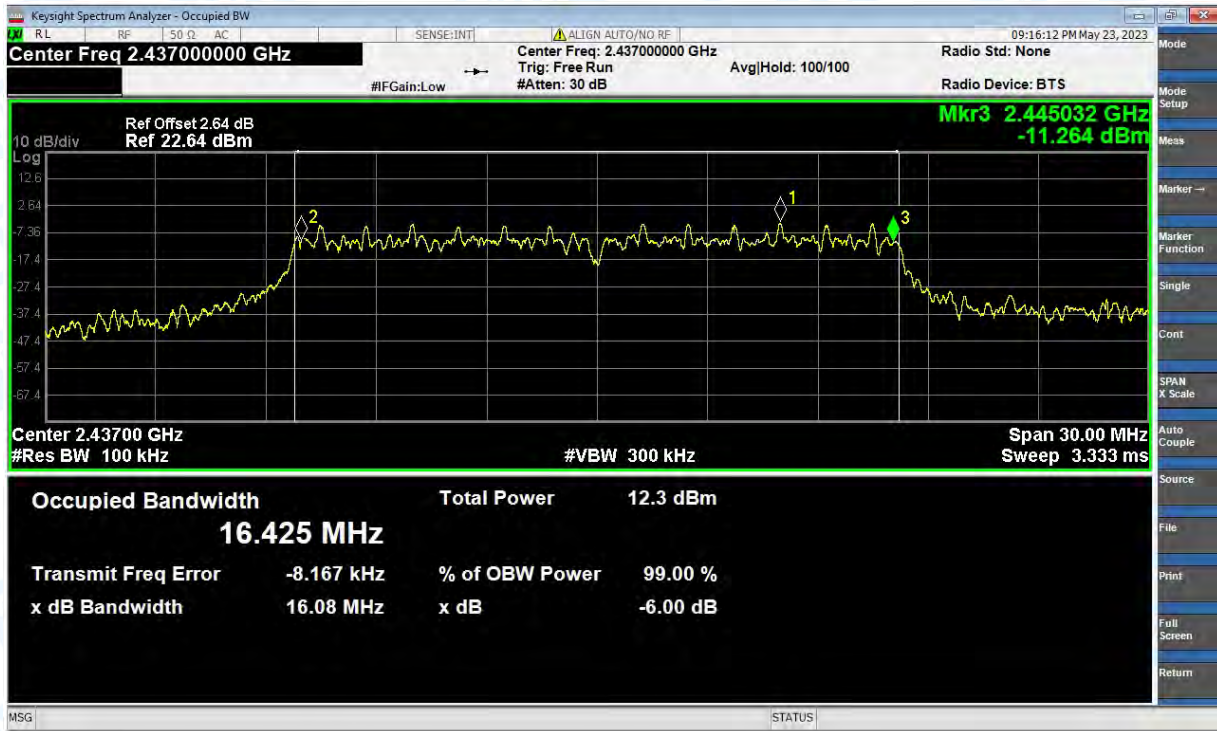
-6dB Bandwidth NVNT b 2462MHz Ant1



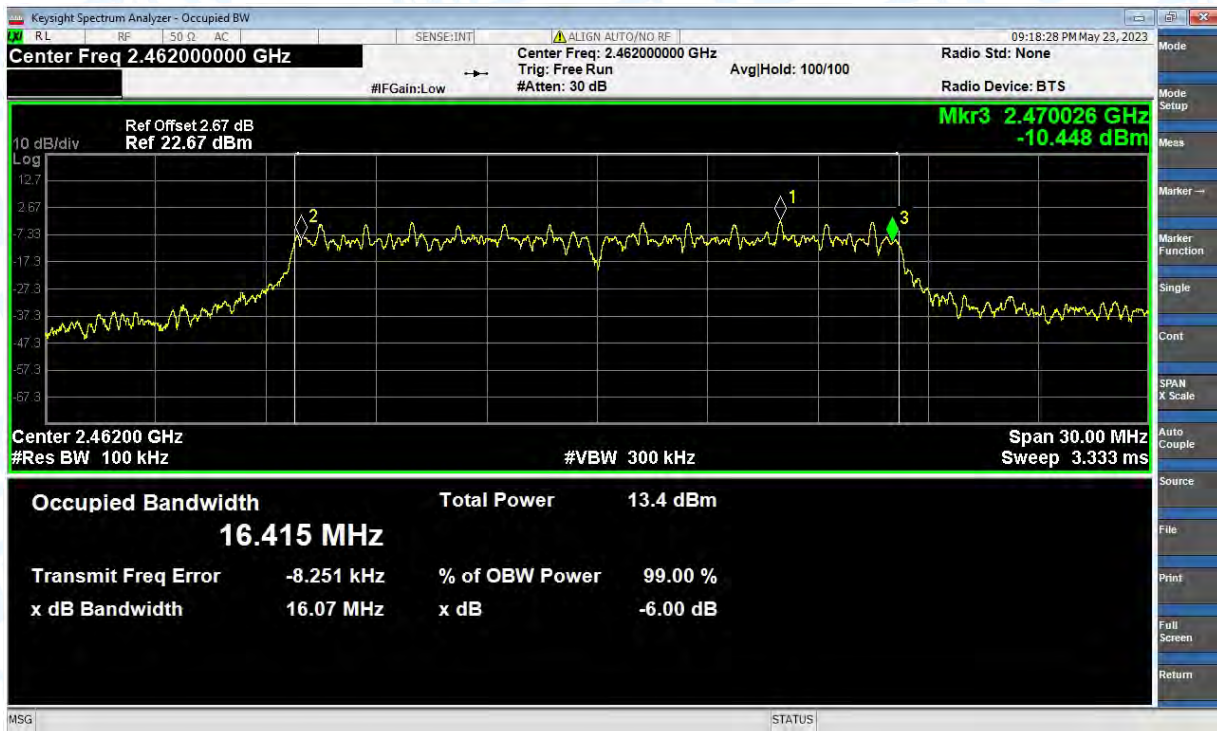
-6dB Bandwidth NVNT g 2412MHz Ant1



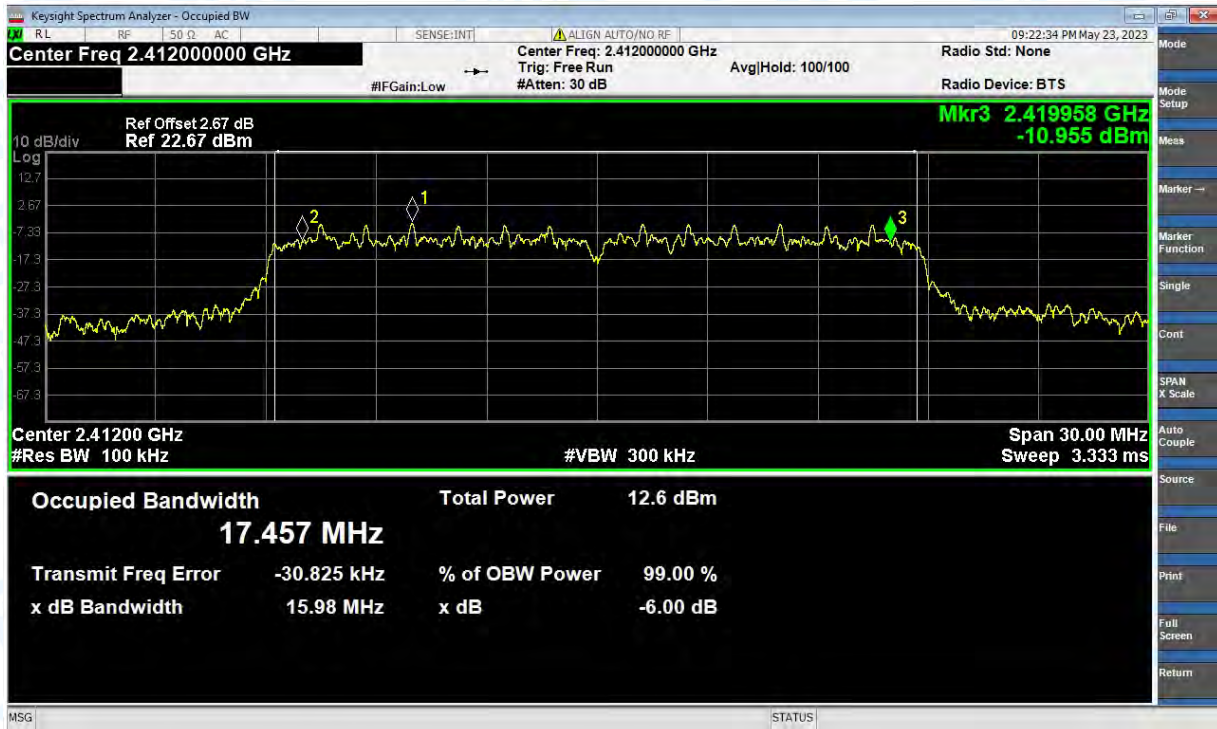
-6dB Bandwidth NVNT g 2437MHz Ant1



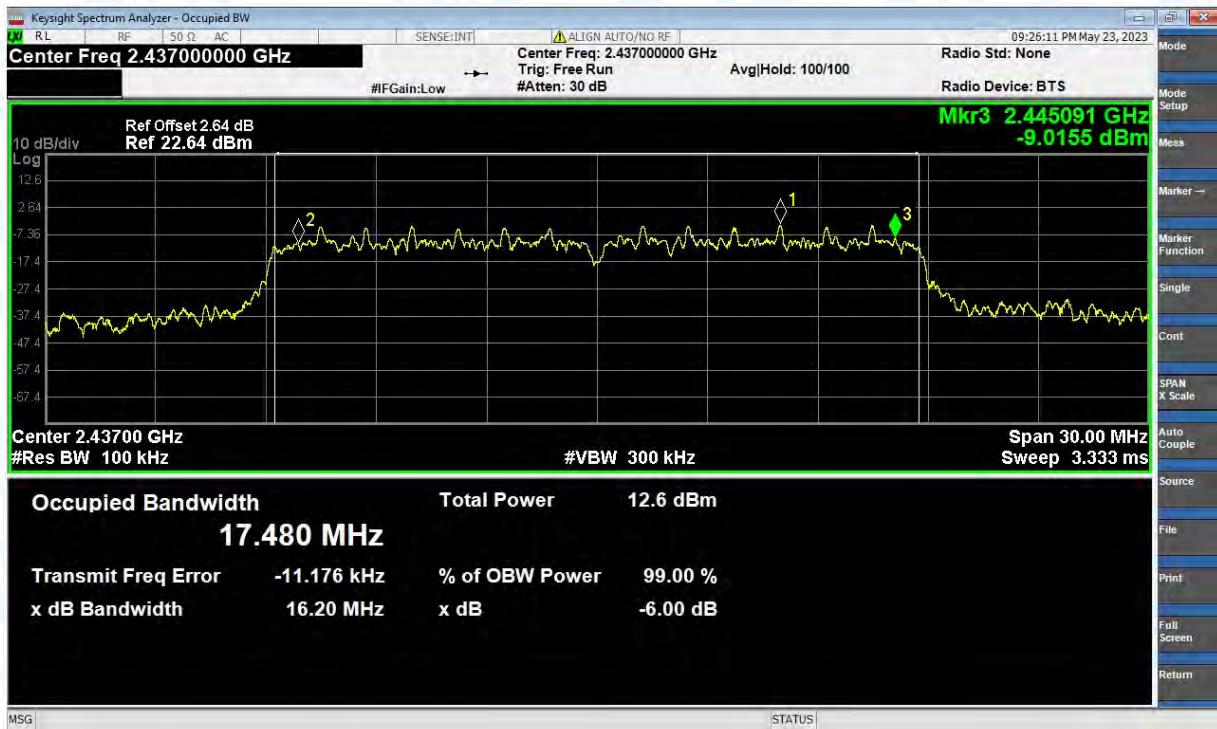
-6dB Bandwidth NVNT g 2462MHz Ant1

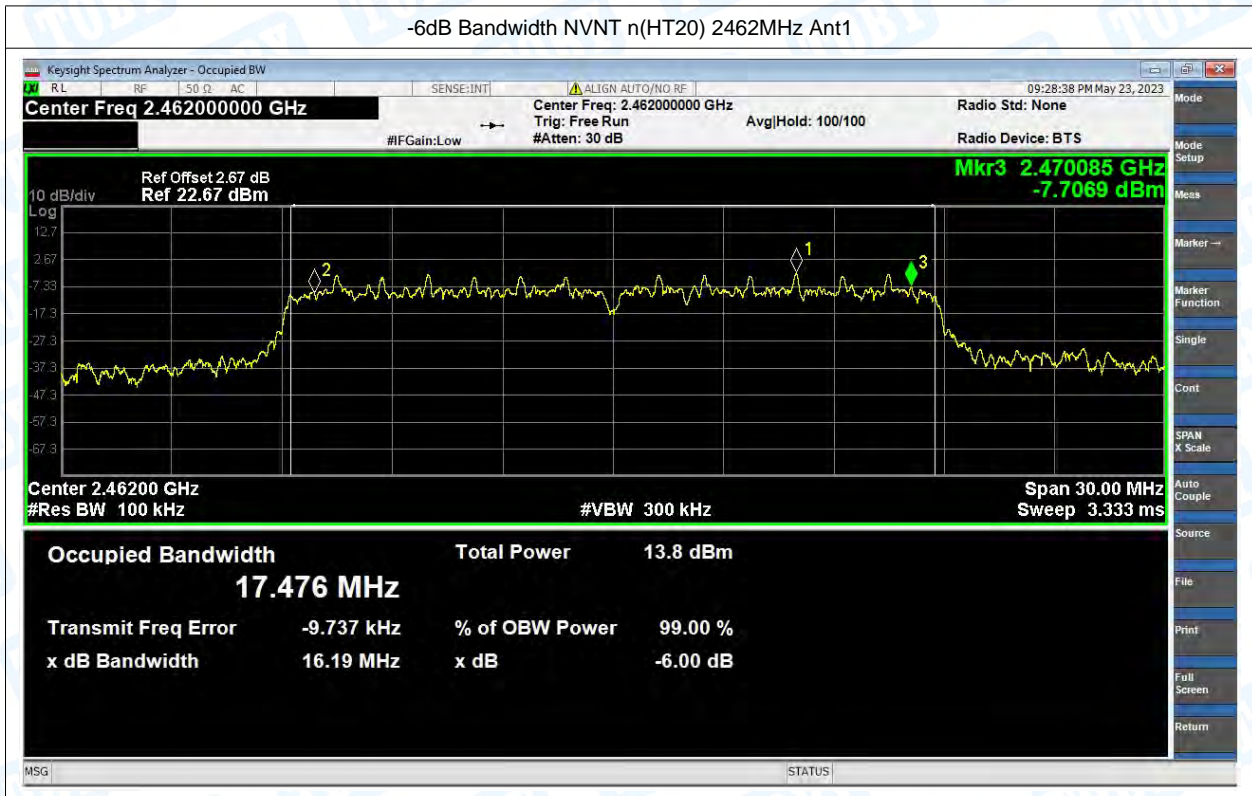


-6dB Bandwidth NVNT n(HT20) 2412MHz Ant1



-6dB Bandwidth NVNT n(HT20) 2437MHz Ant1



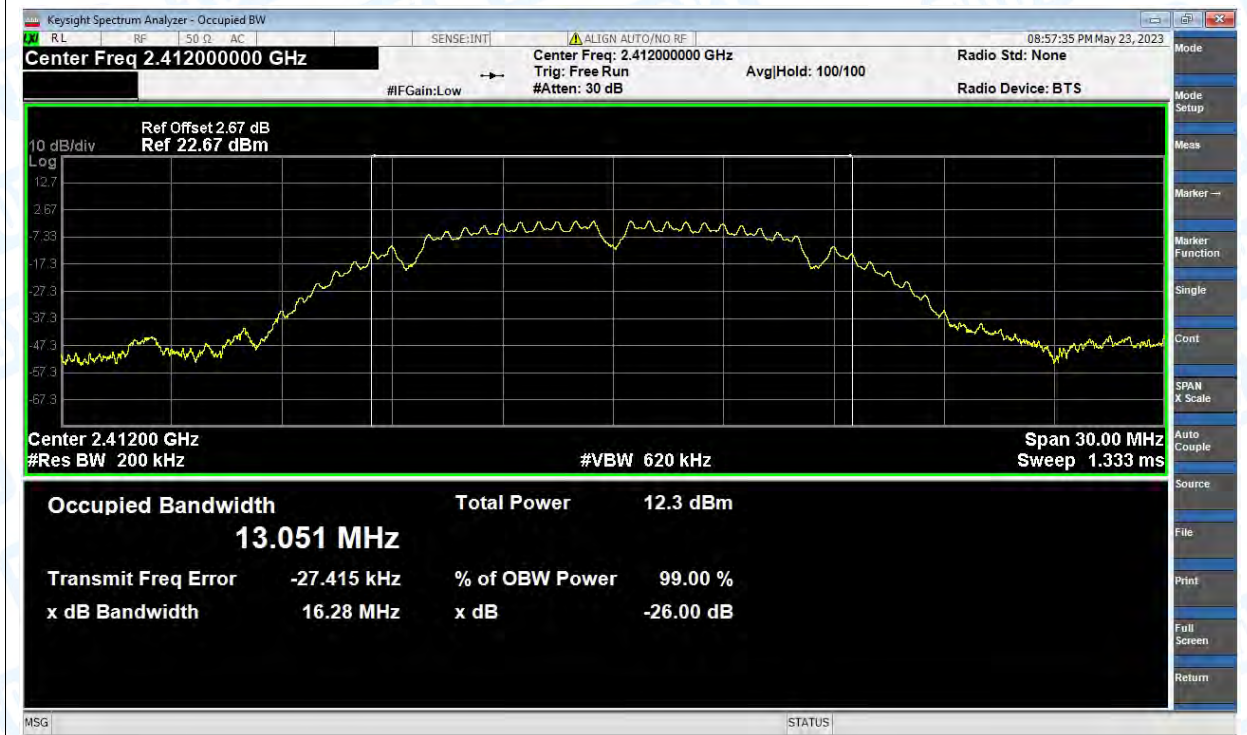


## Occupied Channel Bandwidth

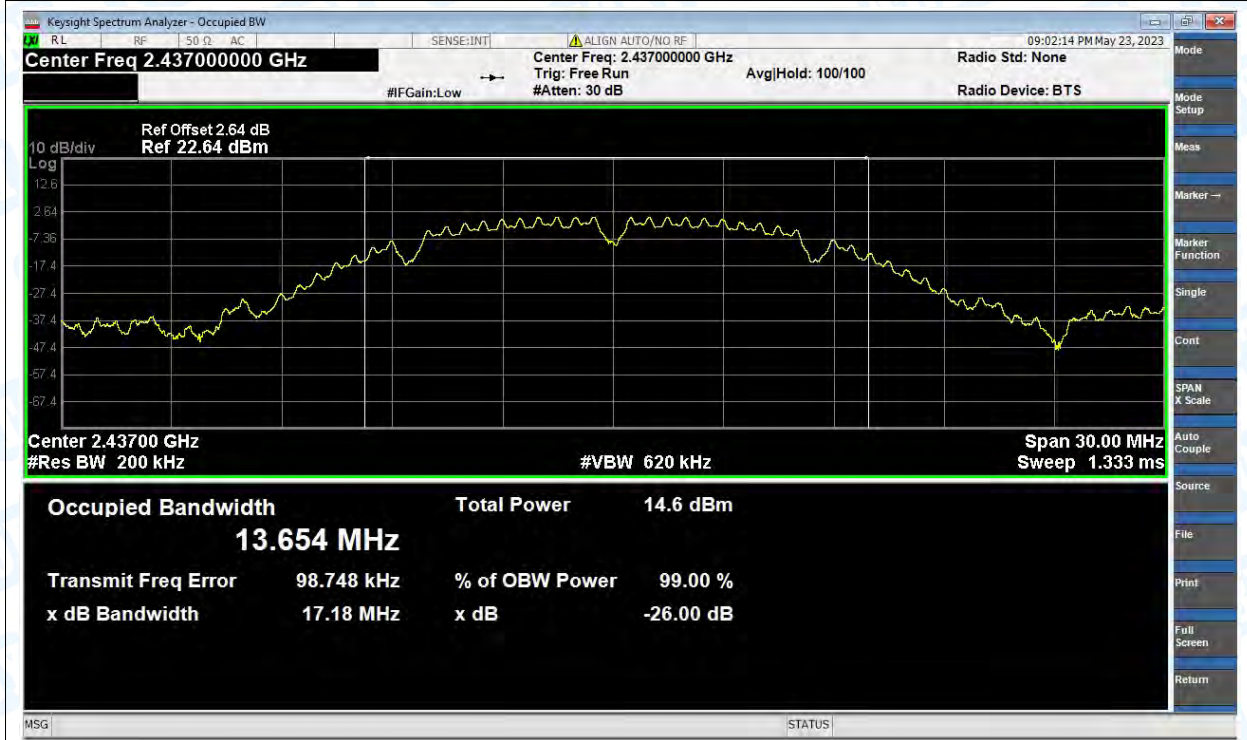
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	13.051
NVNT	b	2437	Ant1	13.654
NVNT	b	2462	Ant1	13.511
NVNT	g	2412	Ant1	16.49
NVNT	g	2437	Ant1	16.515
NVNT	g	2462	Ant1	16.511
NVNT	n(HT20)	2412	Ant1	17.457
NVNT	n(HT20)	2437	Ant1	17.503
NVNT	n(HT20)	2462	Ant1	17.489

Test Graphs

OBW NVNT b 2412MHz Ant1

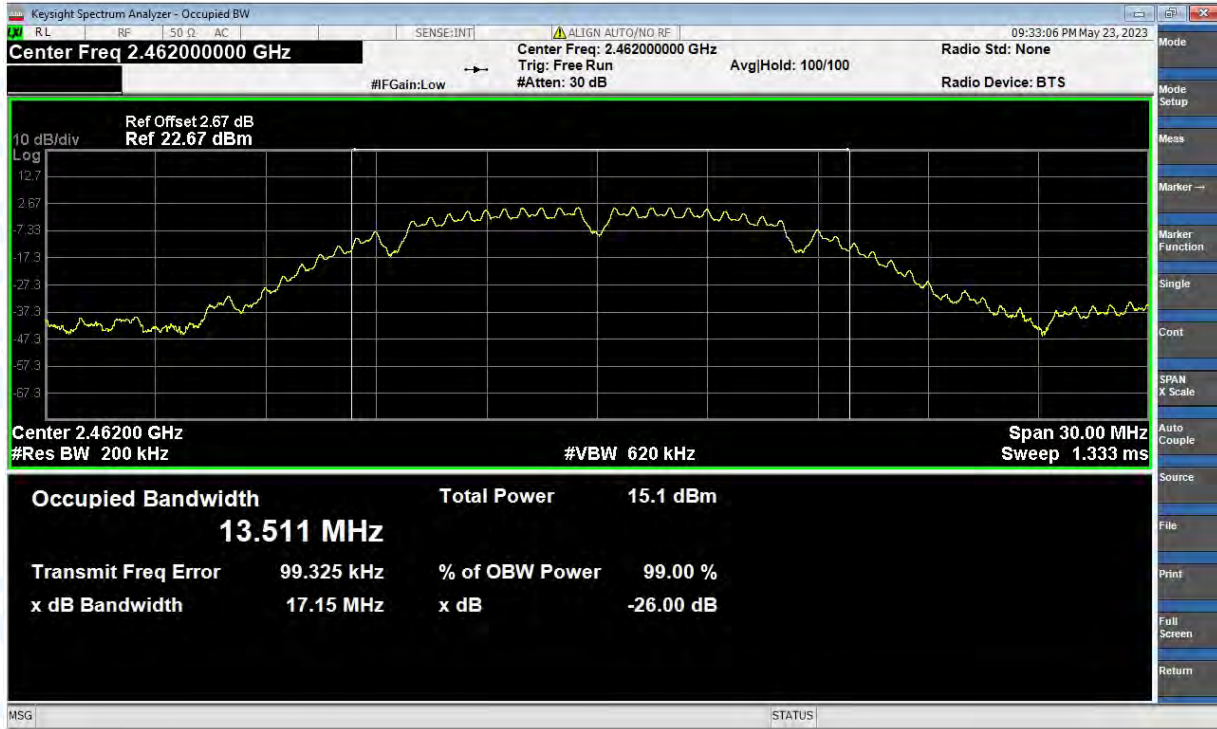


OBW NVNT b 2437MHz Ant1

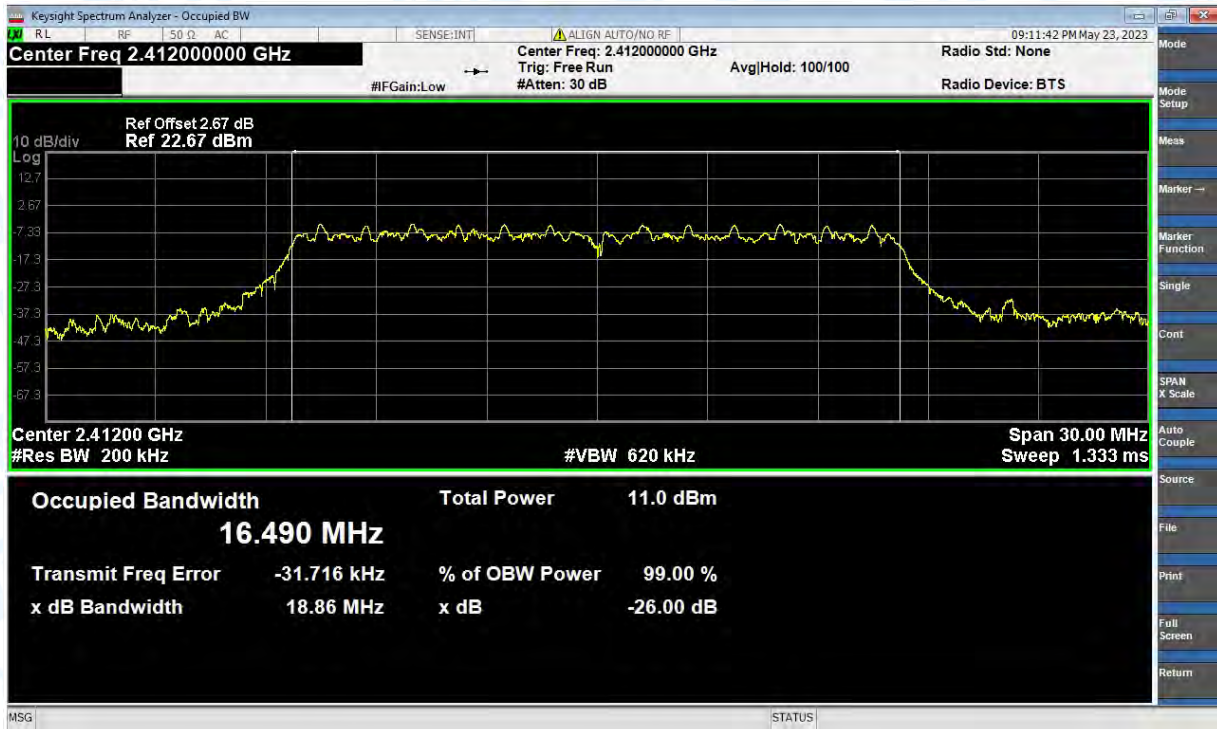




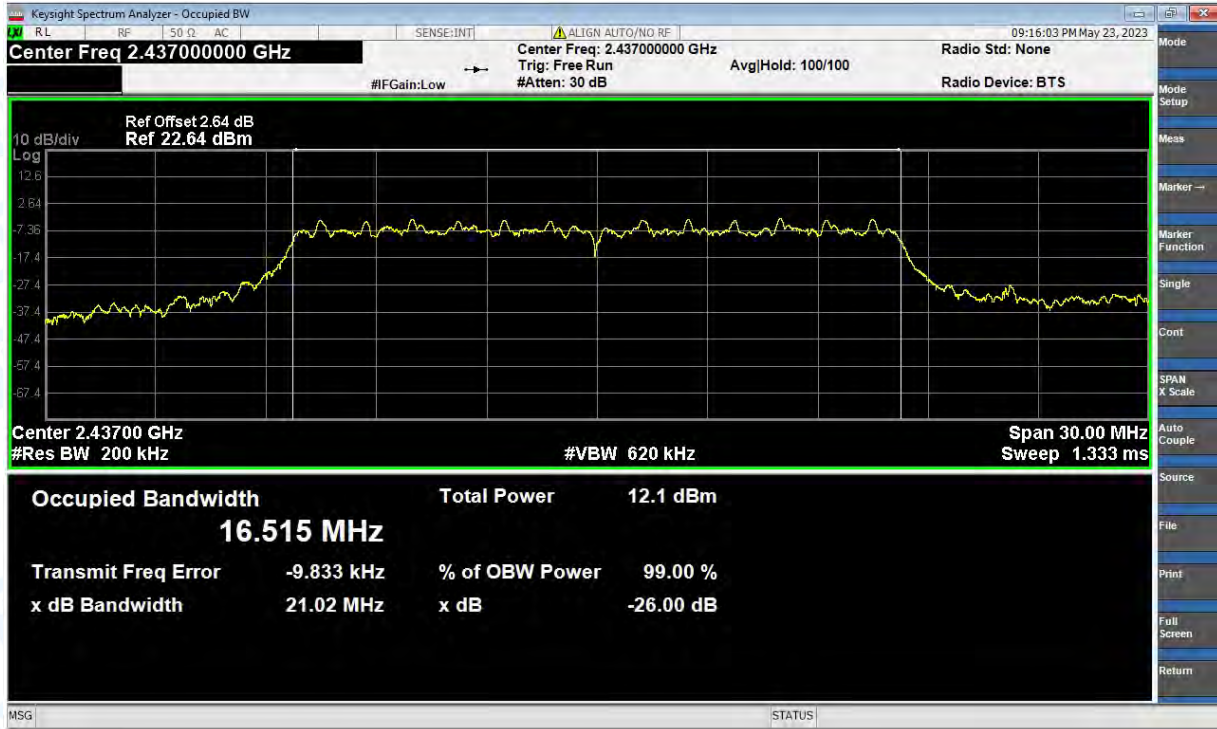
OBW NVNT b 2462MHz Ant1



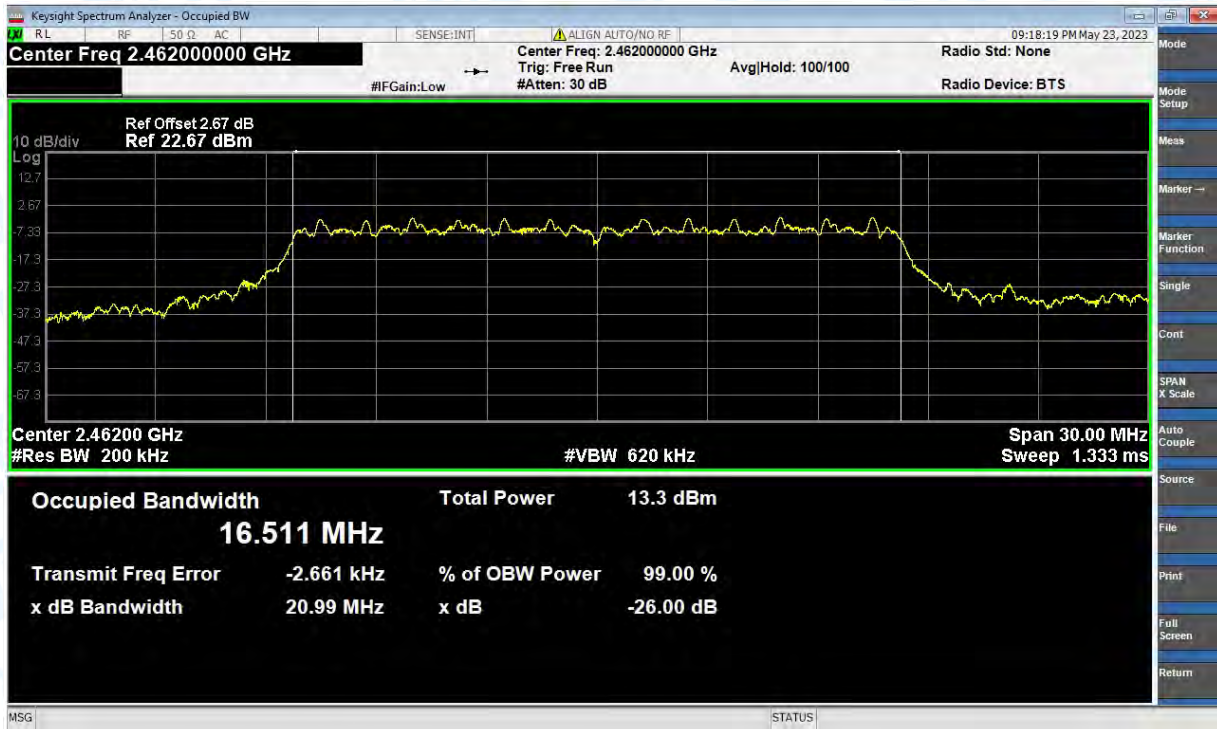
OBW NVNT g 2412MHz Ant1



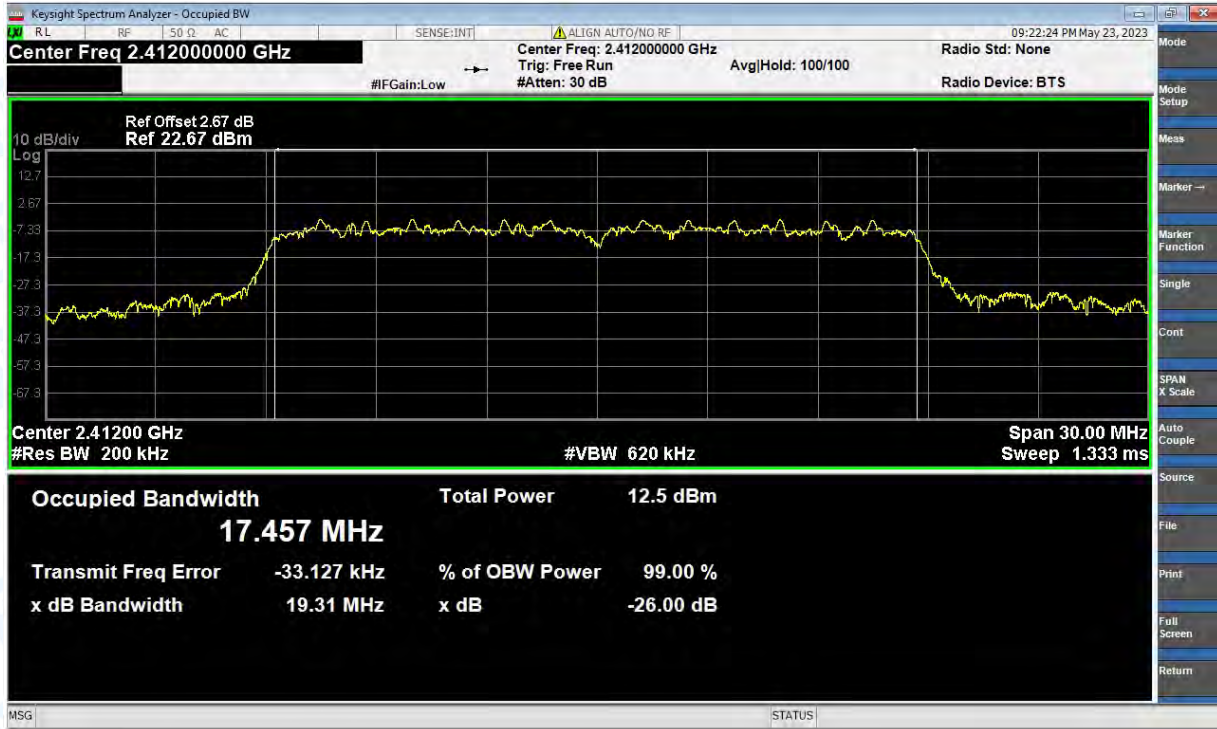
OBW NVNT g 2437MHz Ant1



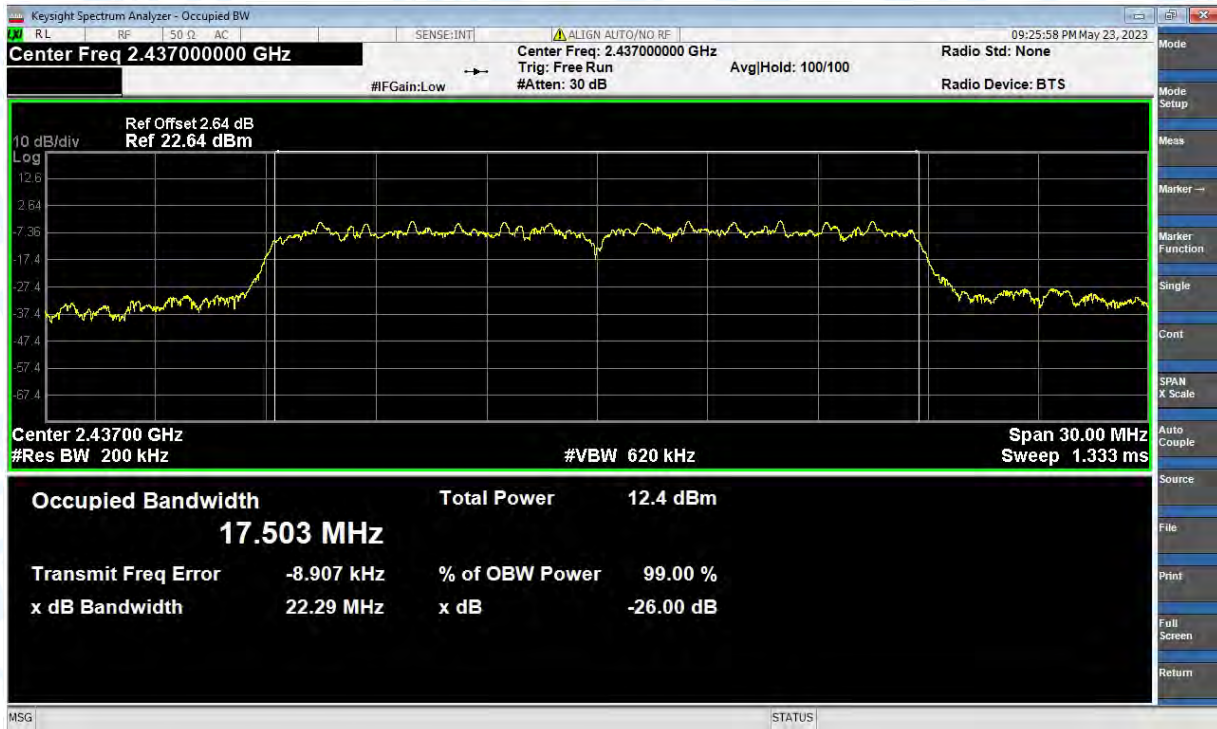
OBW NVNT g 2462MHz Ant1

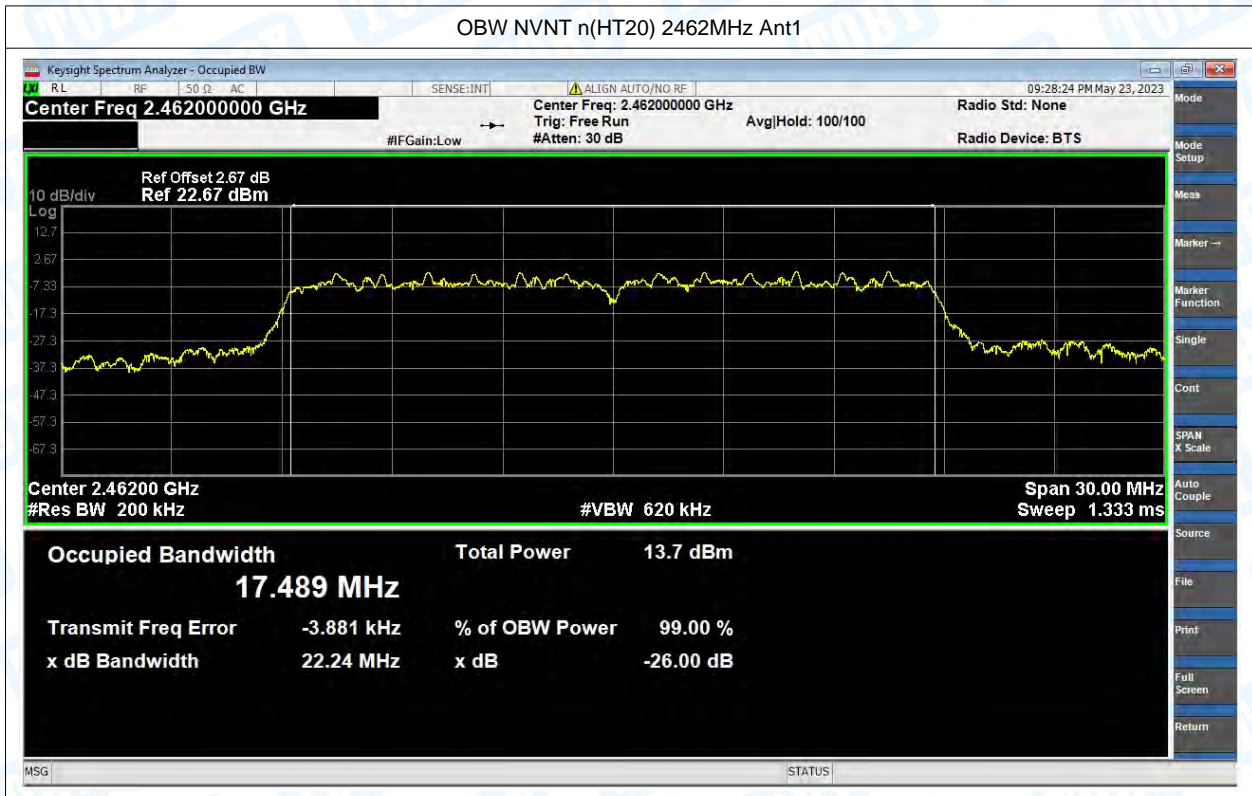


OBW NVNT n(HT20) 2412MHz Ant1



OBW NVNT n(HT20) 2437MHz Ant1





## Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm/3KHz)	Limit (dBm/3KHz)	Verdict
NVNT	b	2412	Ant1	-14.523	8	Pass
NVNT	b	2437	Ant1	-14.923	8	Pass
NVNT	b	2462	Ant1	-14.721	8	Pass
NVNT	g	2412	Ant1	-16.485	8	Pass
NVNT	g	2437	Ant1	-16.223	8	Pass
NVNT	g	2462	Ant1	-14.724	8	Pass
NVNT	n(HT20)	2412	Ant1	-16.189	8	Pass
NVNT	n(HT20)	2437	Ant1	-16.639	8	Pass
NVNT	n(HT20)	2462	Ant1	-15.32	8	Pass

Test Graphs

PSD NVNT b 2412MHz Ant1



PSD NVNT b 2437MHz Ant1



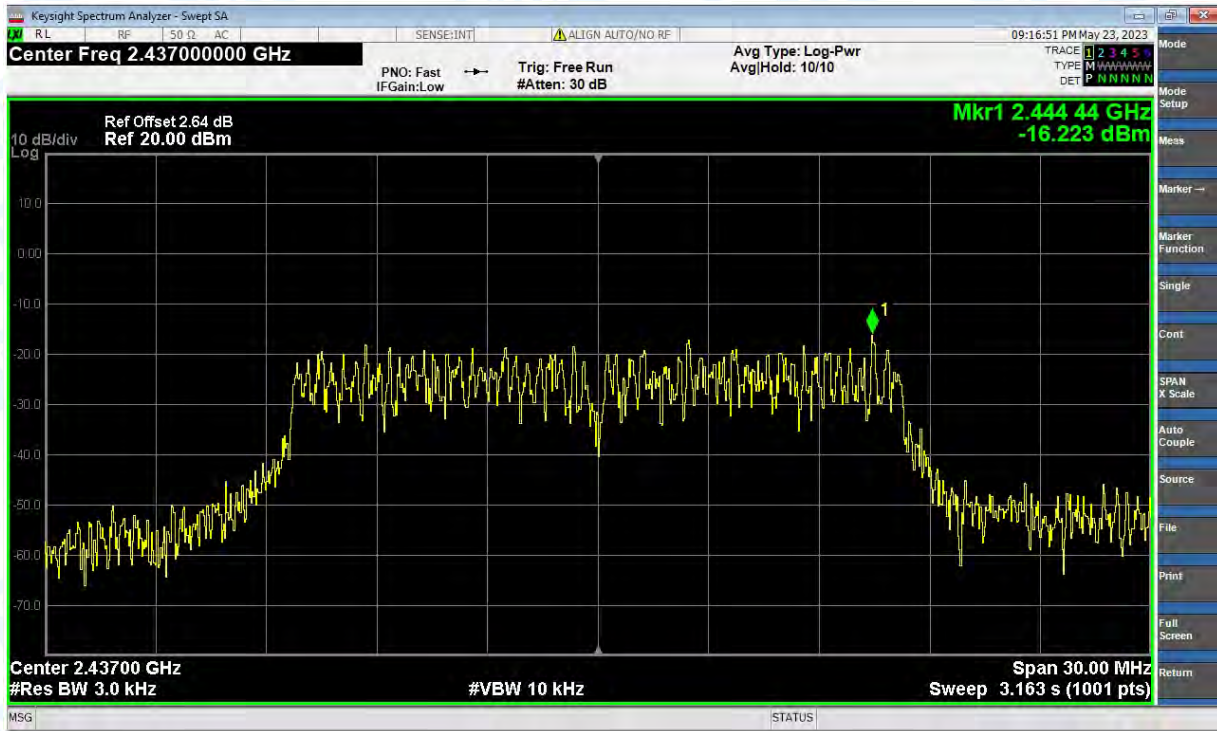
PSD NVNT b 2462MHz Ant1



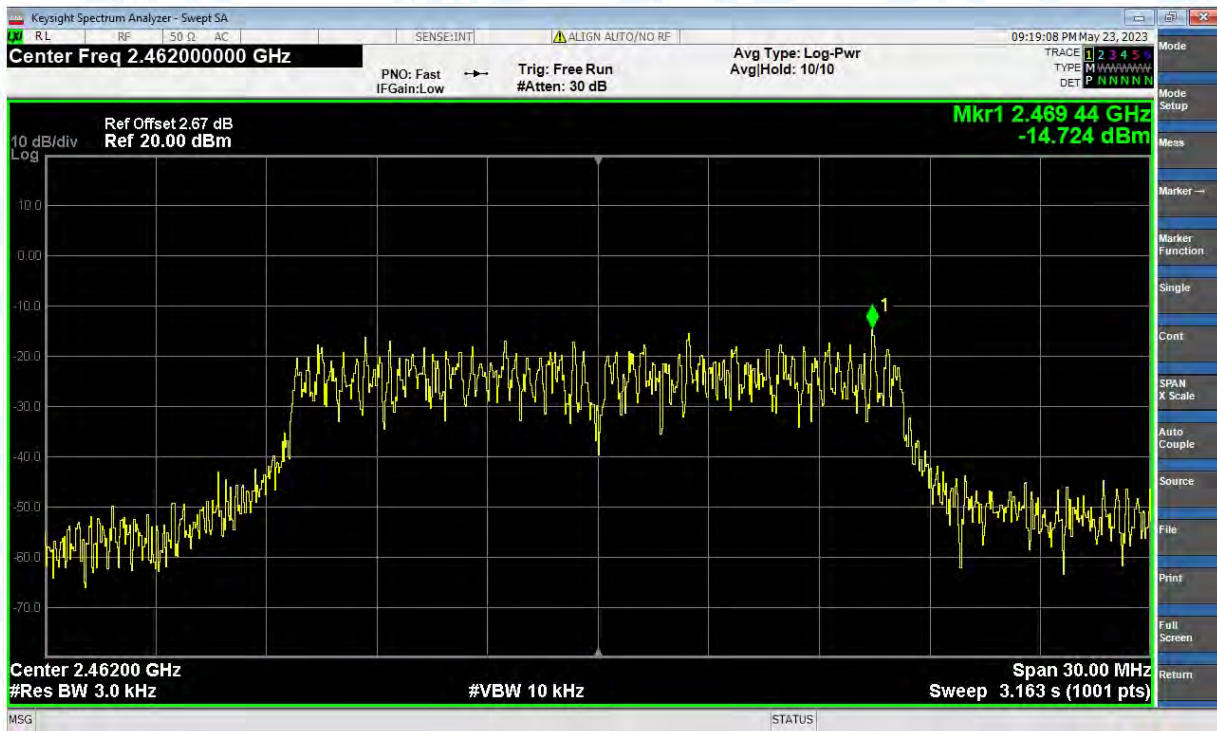
PSD NVNT g 2412MHz Ant1



PSD NVNT g 2437MHz Ant1

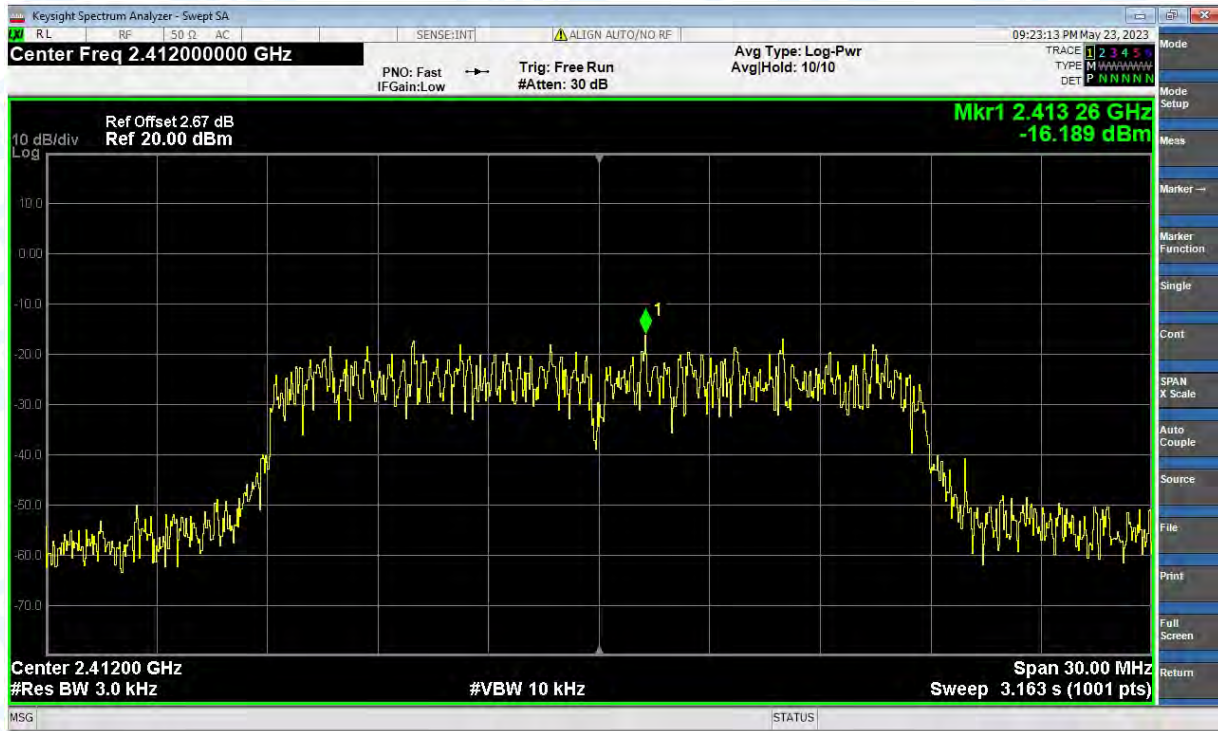


PSD NVNT g 2462MHz Ant1



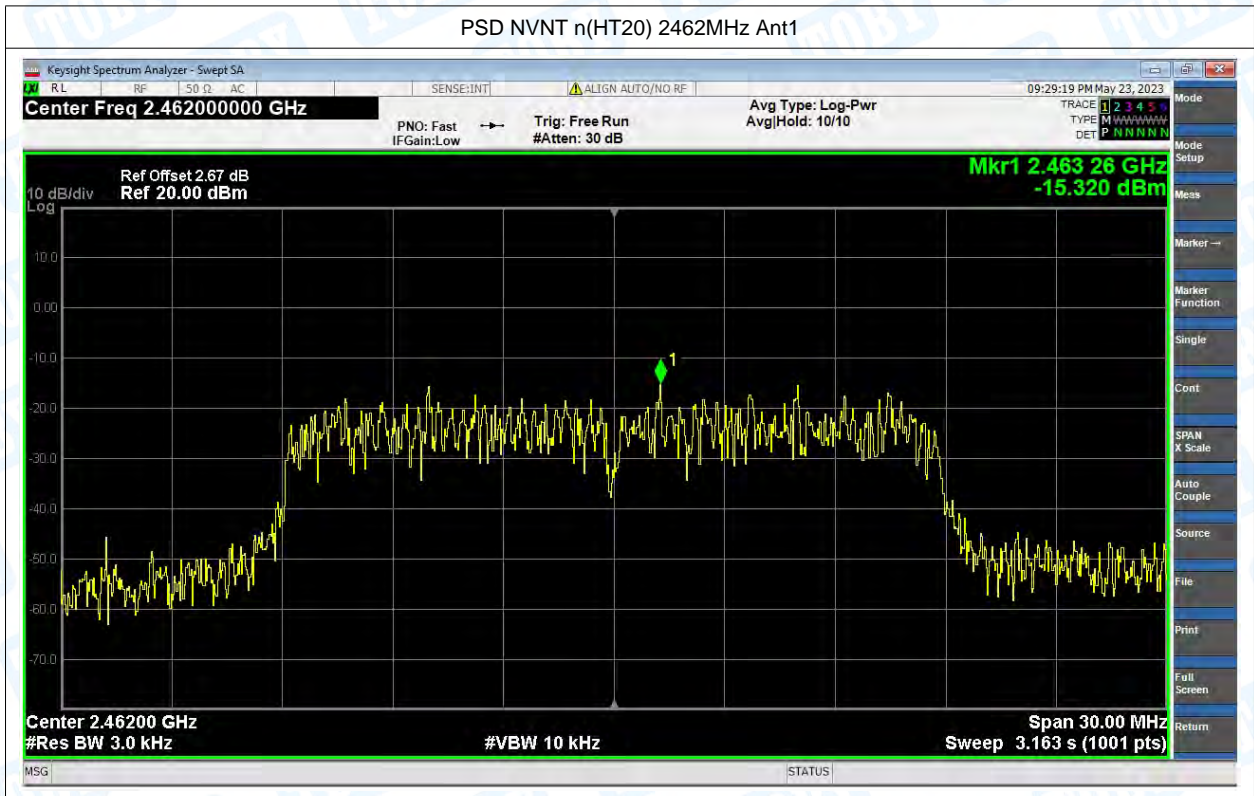


PSD NVNT n(HT20) 2412MHz Ant1



PSD NVNT n(HT20) 2437MHz Ant1





## Band Edge

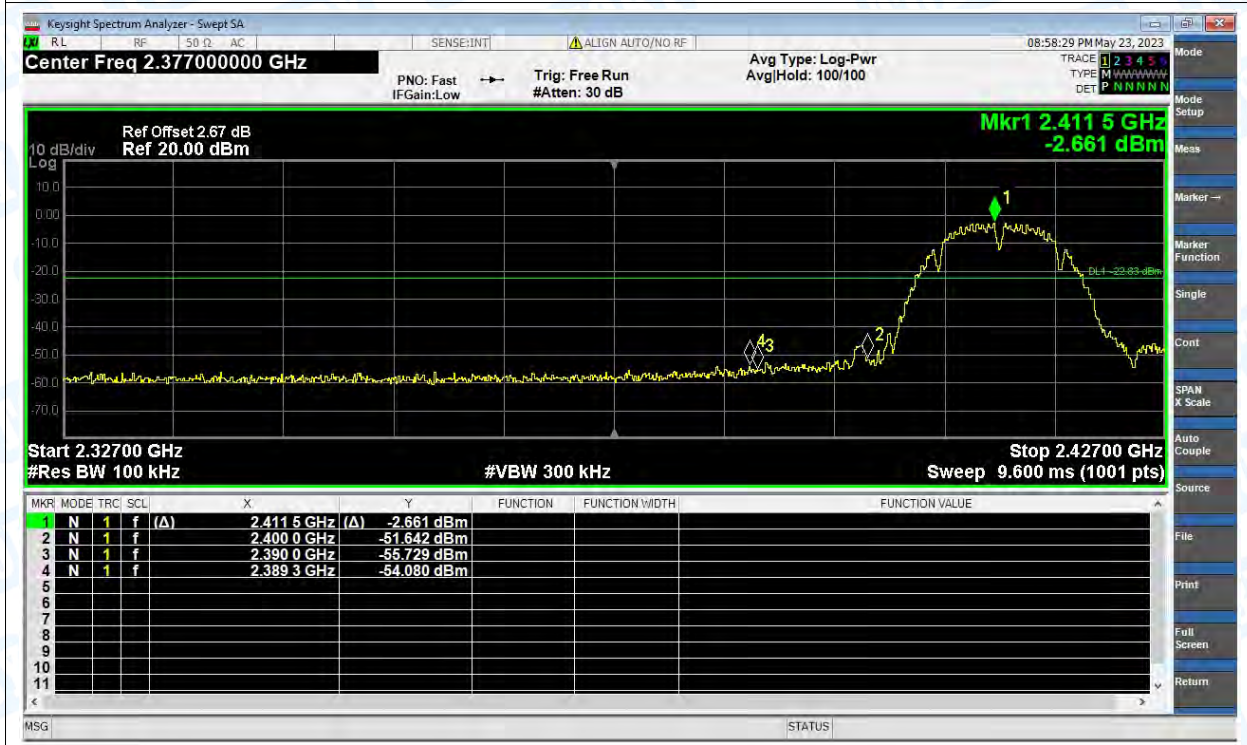
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-51.25	-20	Pass
NVNT	b	2462	Ant1	-49.61	-20	Pass
NVNT	g	2412	Ant1	-44.63	-20	Pass
NVNT	g	2462	Ant1	-41.51	-20	Pass
NVNT	n(HT20)	2412	Ant1	-44.69	-20	Pass
NVNT	n(HT20)	2462	Ant1	-38.73	-20	Pass

Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission



Band Edge NVNT b 2462MHz Ant1 Ref



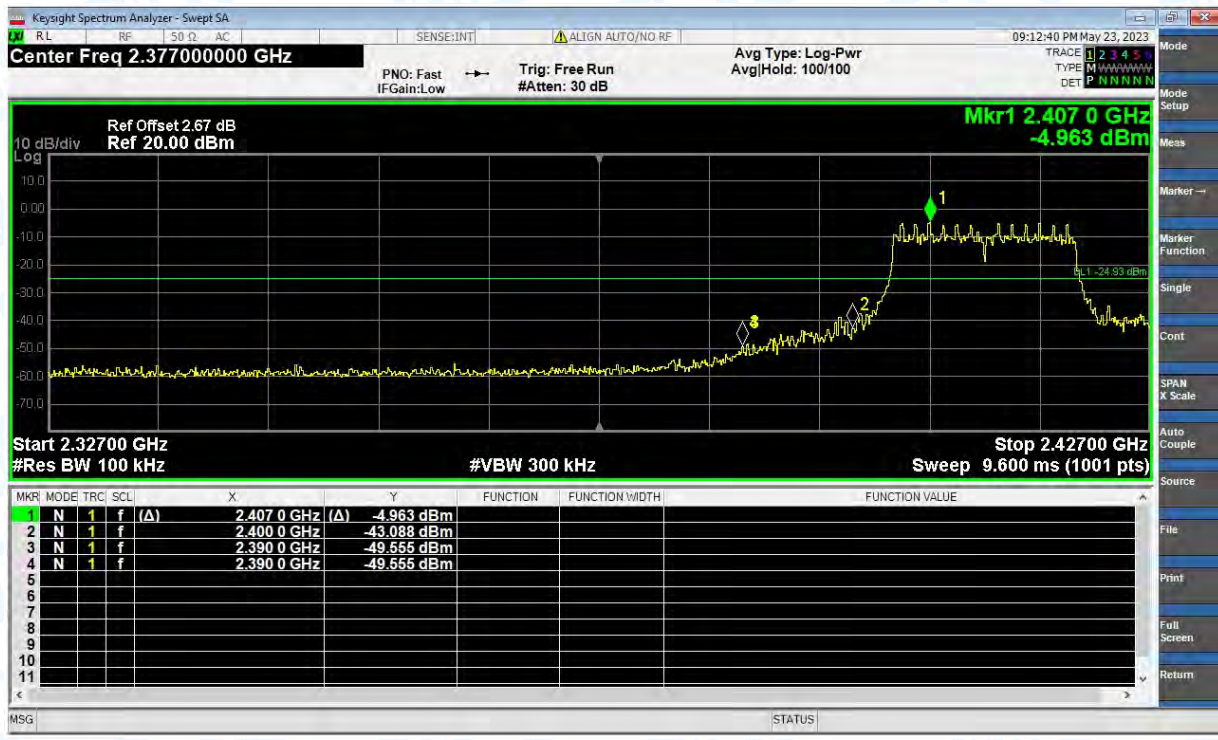
Band Edge NVNT b 2462MHz Ant1 Emission



Band Edge NVNT g 2412MHz Ant1 Ref



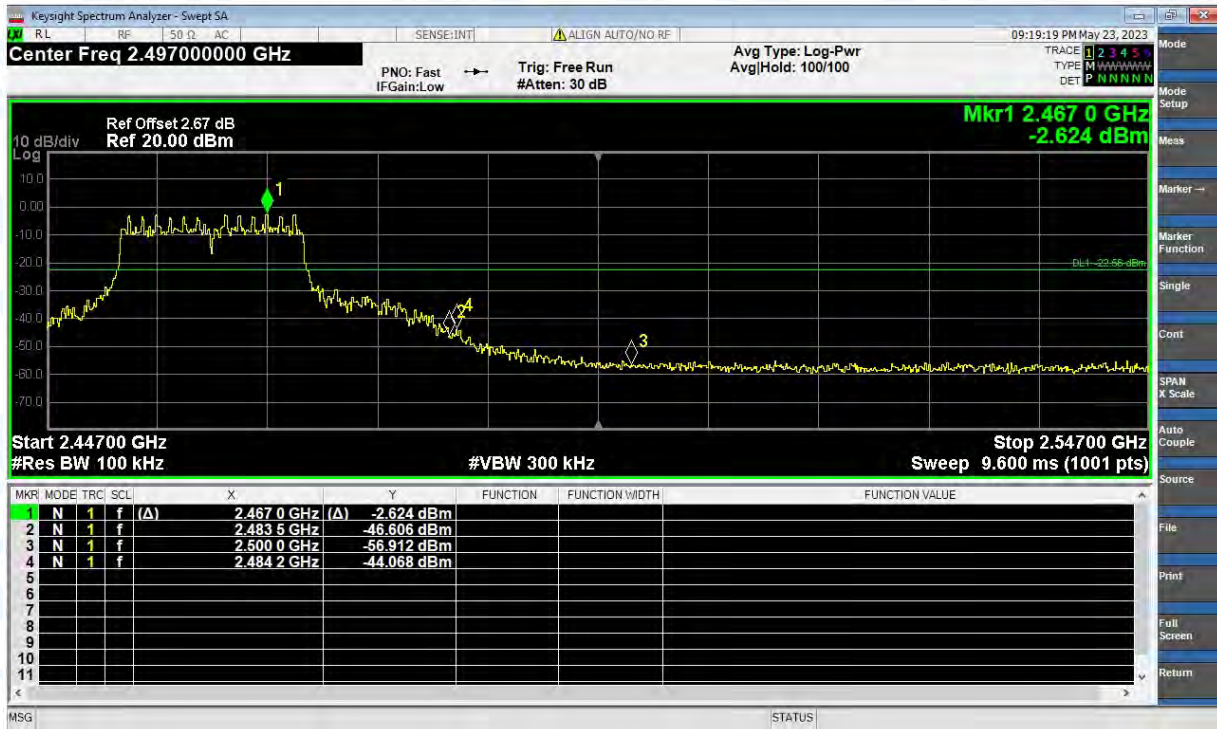
Band Edge NVNT g 2412MHz Ant1 Emission



Band Edge NVNT g 2462MHz Ant1 Ref



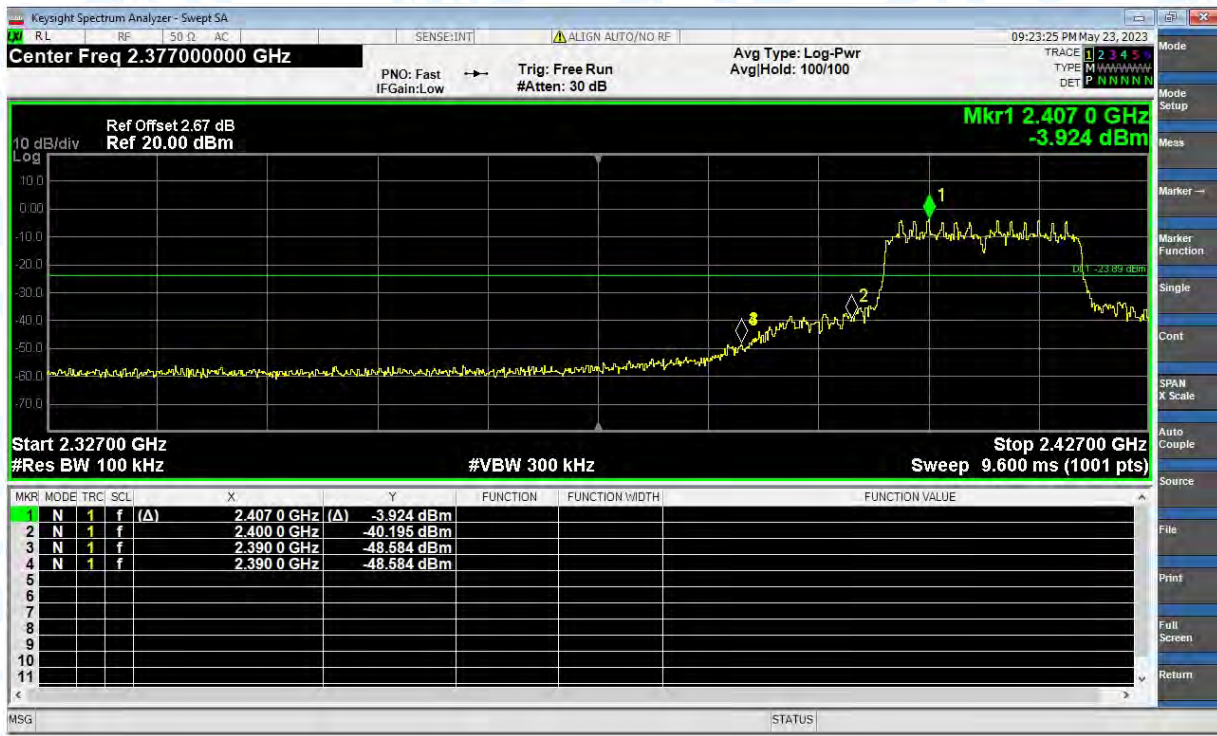
Band Edge NVNT g 2462MHz Ant1 Emission



Band Edge NVNT n(HT20) 2412MHz Ant1 Ref



Band Edge NVNT n(HT20) 2412MHz Ant1 Emission

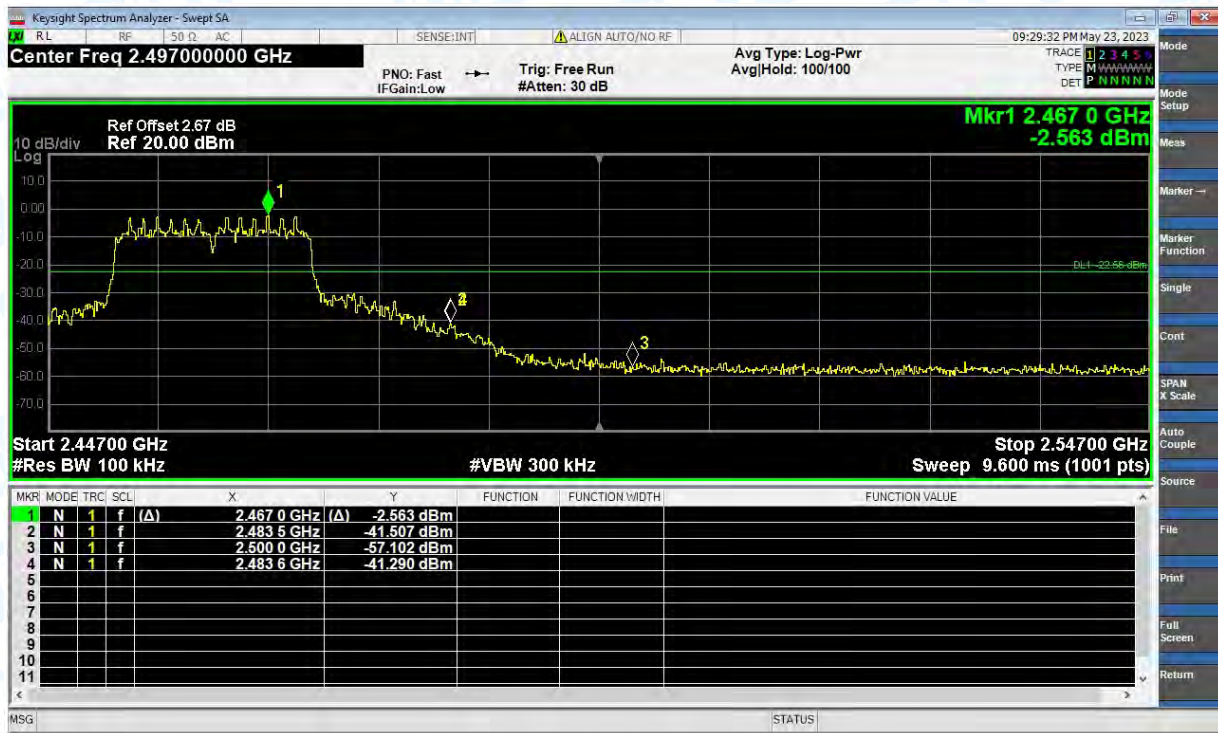




Band Edge NVNT n(HT20) 2462MHz Ant1 Ref



Band Edge NVNT n(HT20) 2462MHz Ant1 Emission



## Conducted RF Spurious Emission

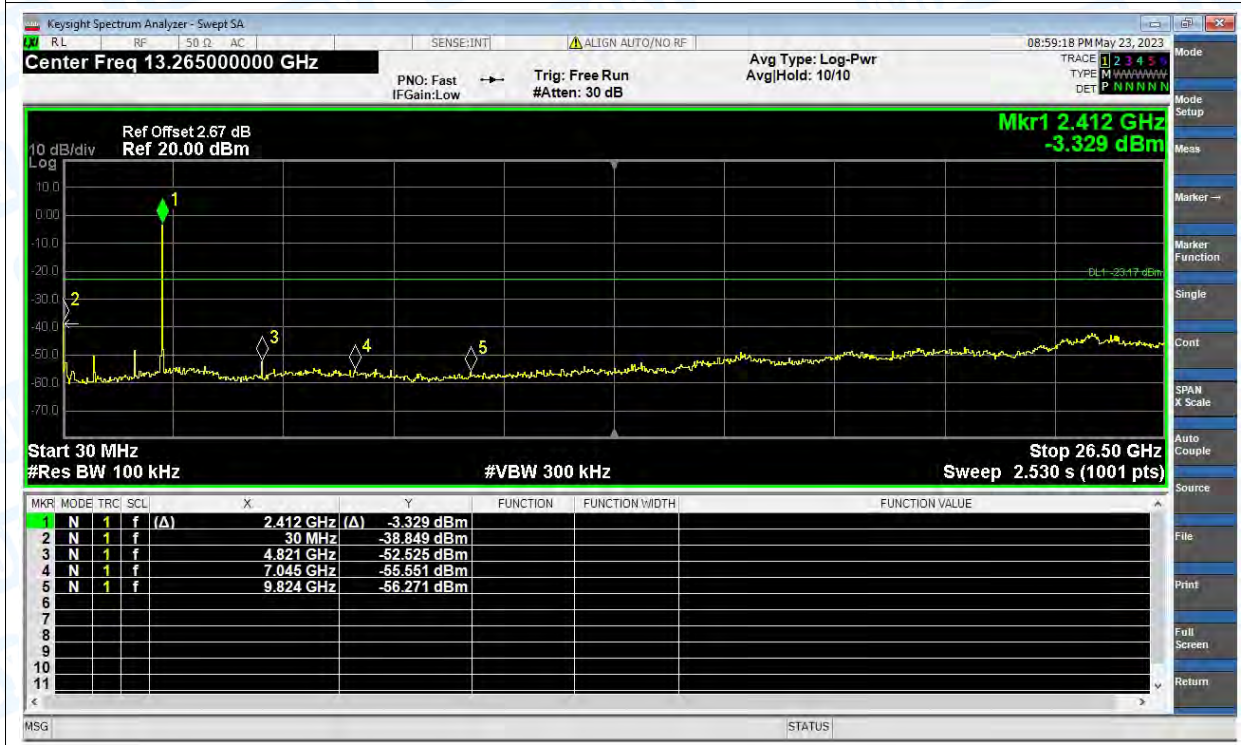
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-35.68	-20	Pass
NVNT	b	2437	Ant1	-37.49	-20	Pass
NVNT	b	2462	Ant1	-37.73	-20	Pass
NVNT	g	2412	Ant1	-33.18	-20	Pass
NVNT	g	2437	Ant1	-34.14	-20	Pass
NVNT	g	2462	Ant1	-35.42	-20	Pass
NVNT	n(HT20)	2412	Ant1	-33.17	-20	Pass
NVNT	n(HT20)	2437	Ant1	-33.88	-20	Pass
NVNT	n(HT20)	2462	Ant1	-35.28	-20	Pass

Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



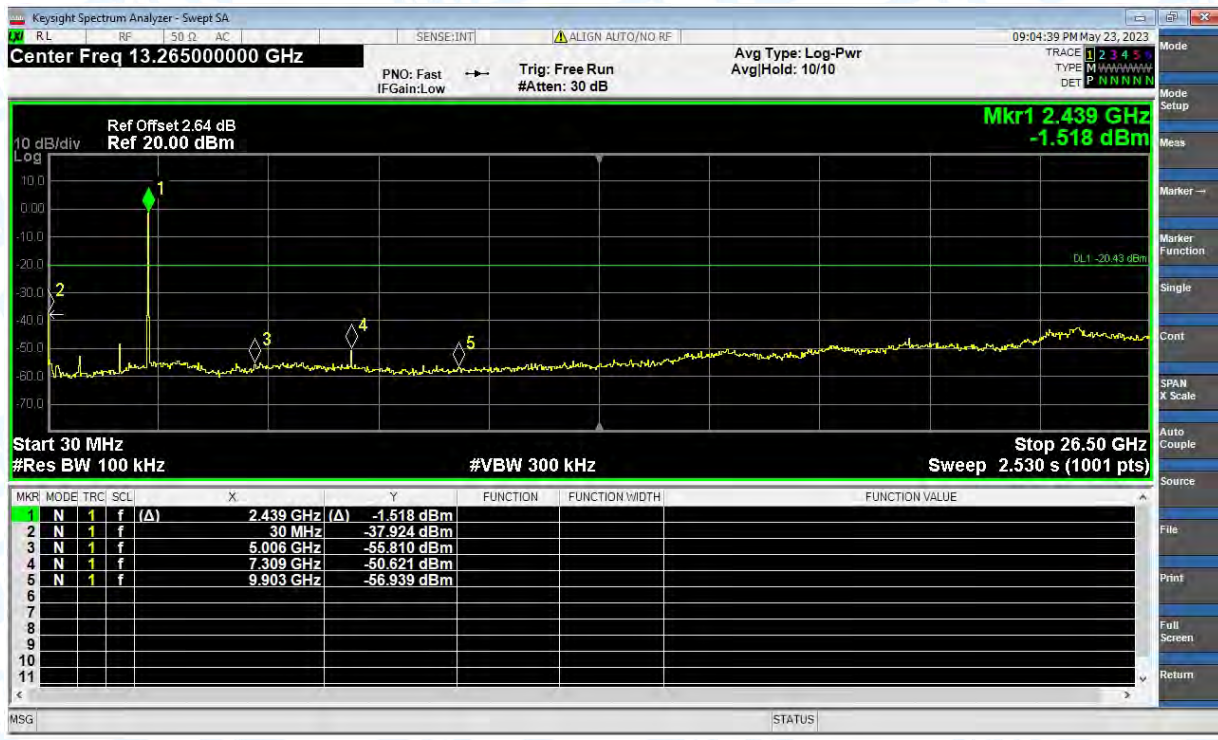
Tx. Spurious NVNT b 2412MHz Ant1 Emission



Tx. Spurious NVNT b 2437MHz Ant1 Ref



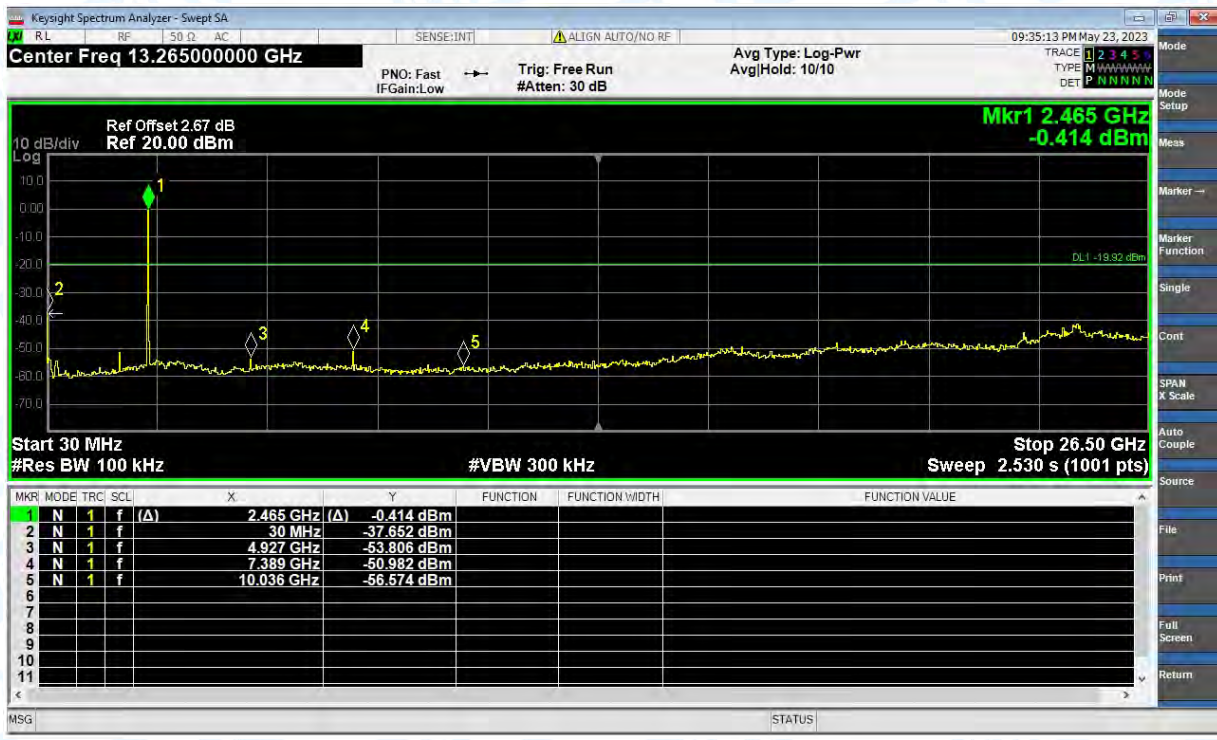
Tx. Spurious NVNT b 2437MHz Ant1 Emission



Tx. Spurious NVNT b 2462MHz Ant1 Ref



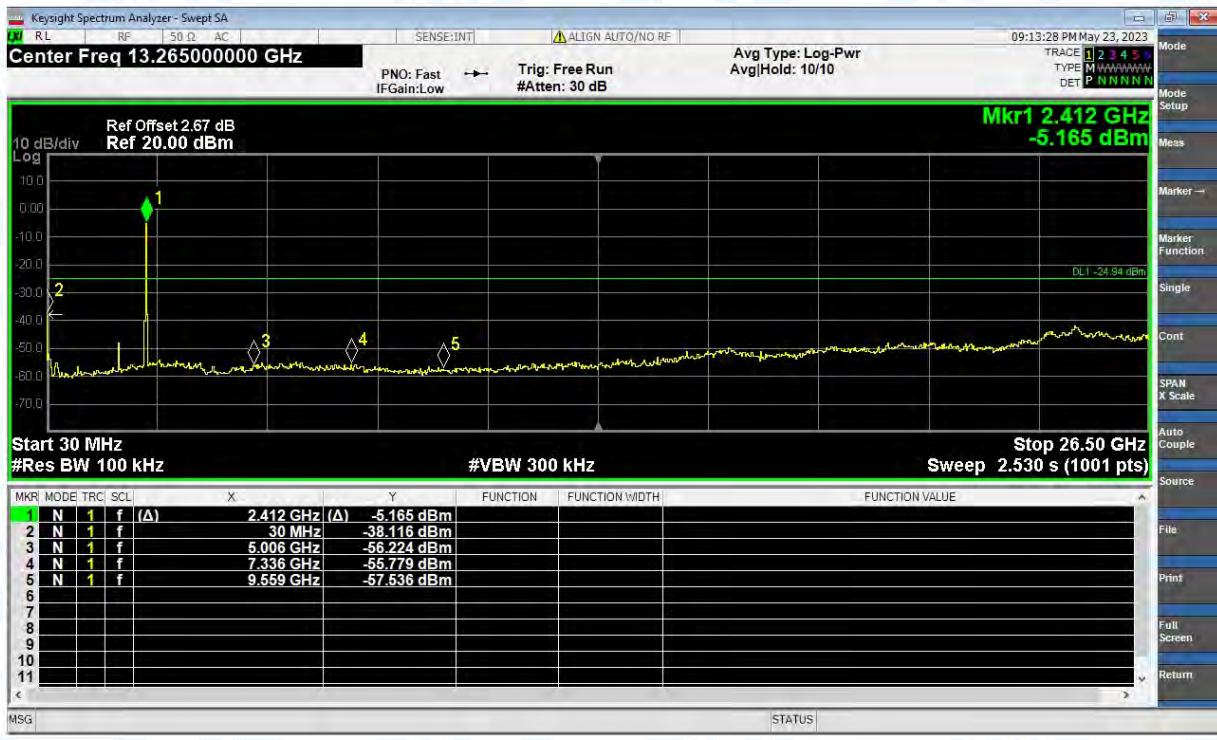
Tx. Spurious NVNT b 2462MHz Ant1 Emission



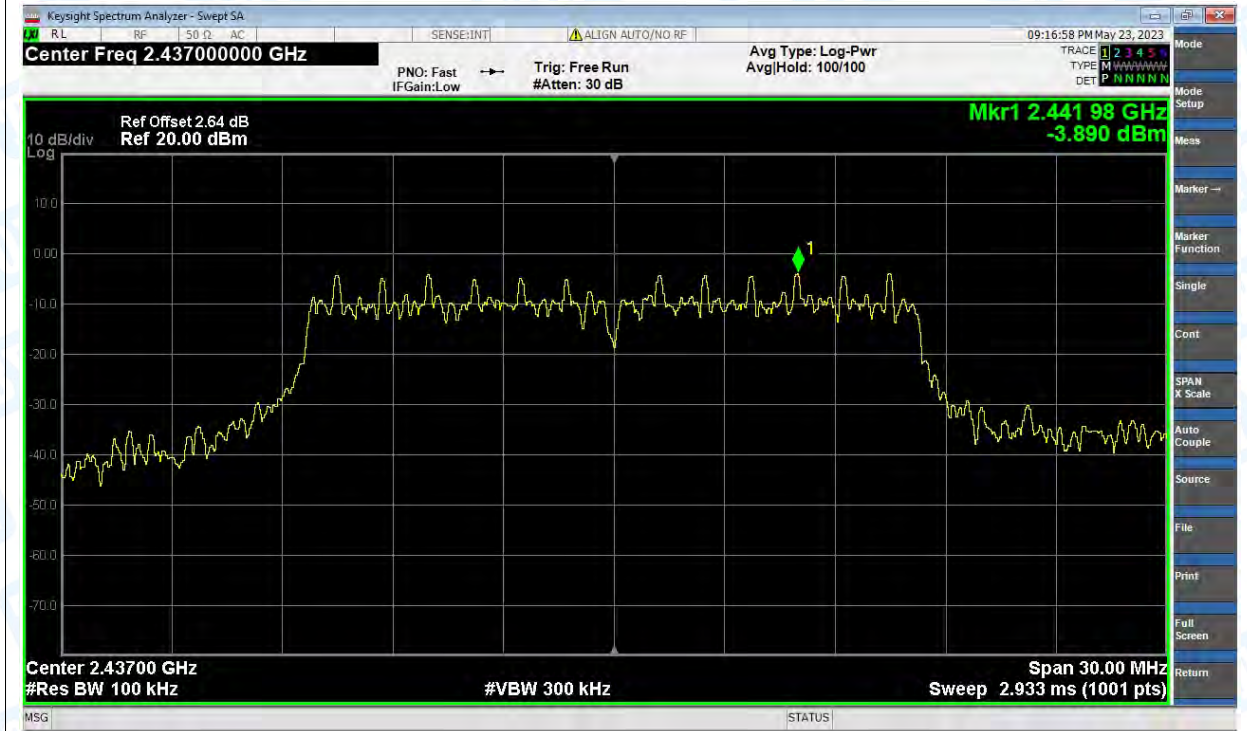
Tx. Spurious NVNT g 2412MHz Ant1 Ref



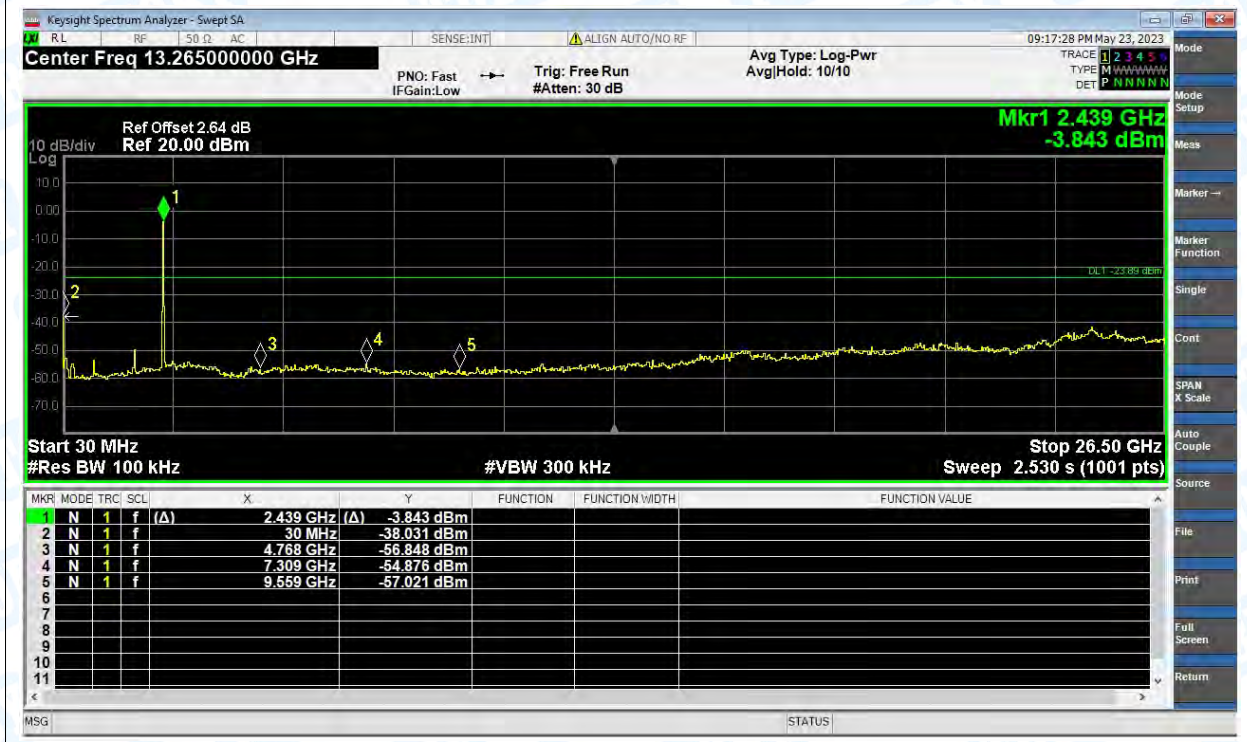
Tx. Spurious NVNT g 2412MHz Ant1 Emission



Tx. Spurious NVNT g 2437MHz Ant1 Ref



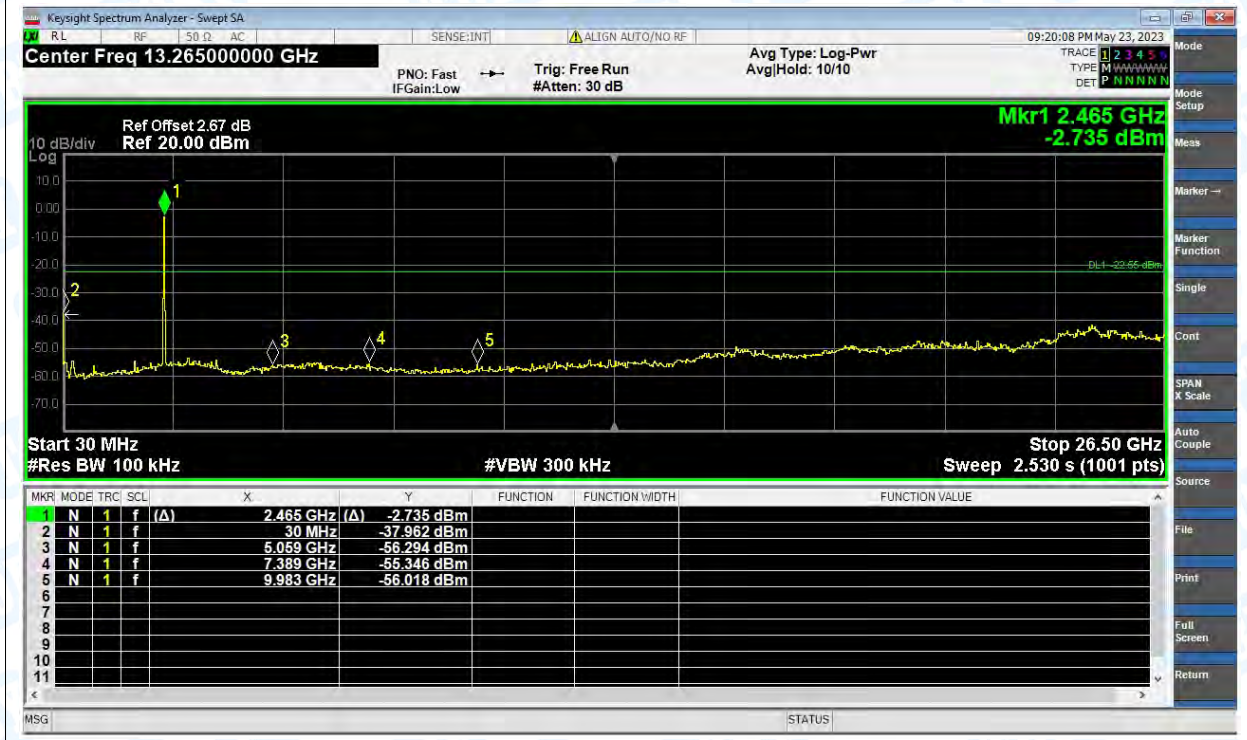
Tx. Spurious NVNT g 2437MHz Ant1 Emission



Tx. Spurious NVNT g 2462MHz Ant1 Ref



Tx. Spurious NVNT g 2462MHz Ant1 Emission

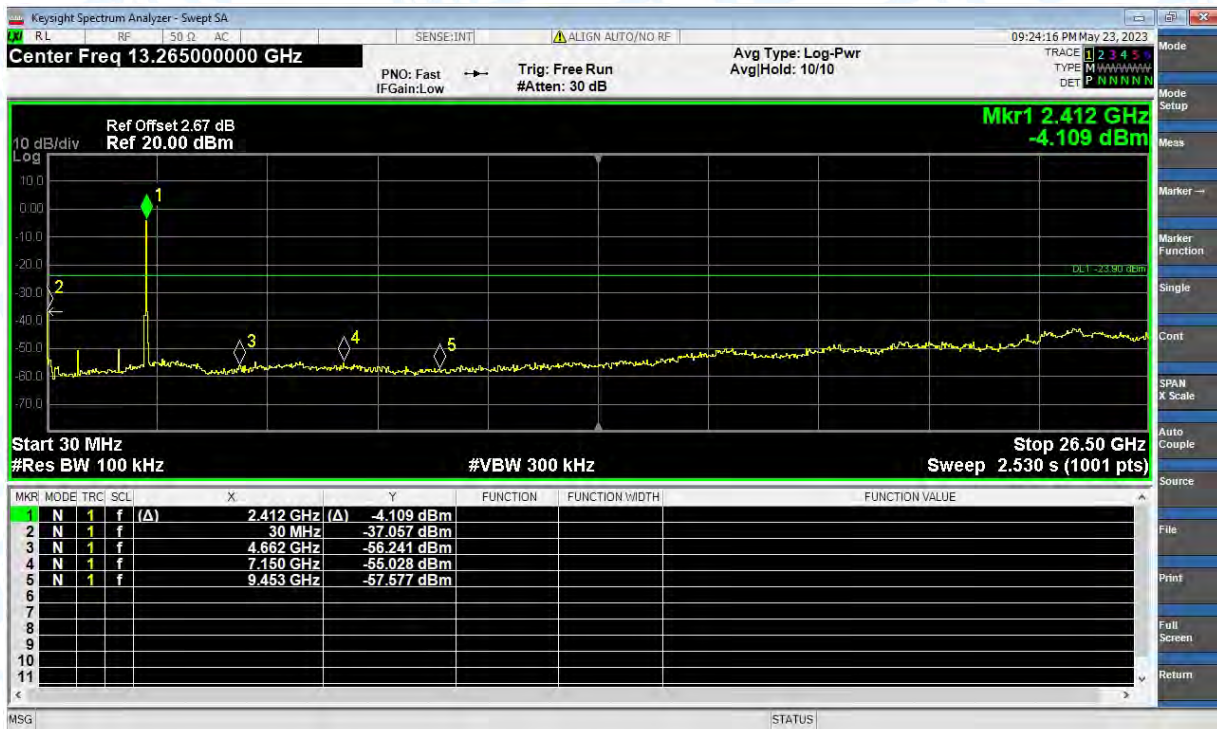




Tx. Spurious NVNT n(HT20) 2412MHz Ant1 Ref



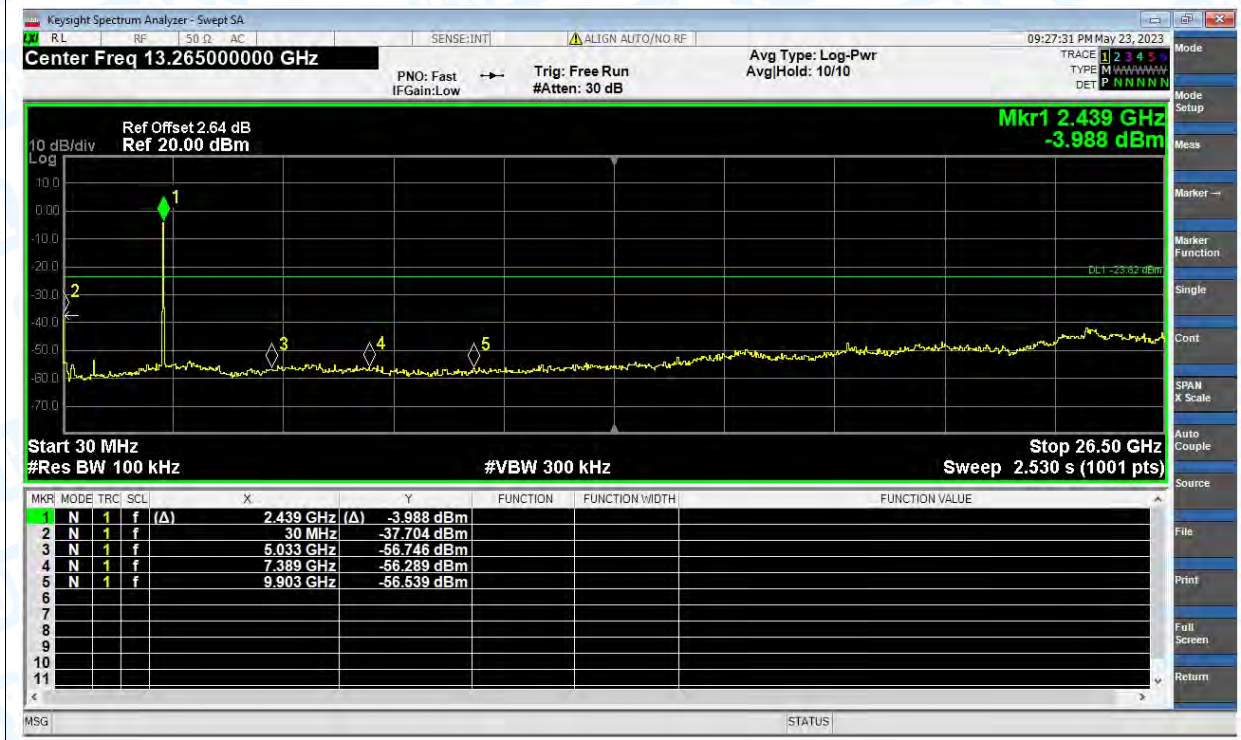
Tx. Spurious NVNT n(HT20) 2412MHz Ant1 Emission



Tx. Spurious NVNT n(HT20) 2437MHz Ant1 Ref



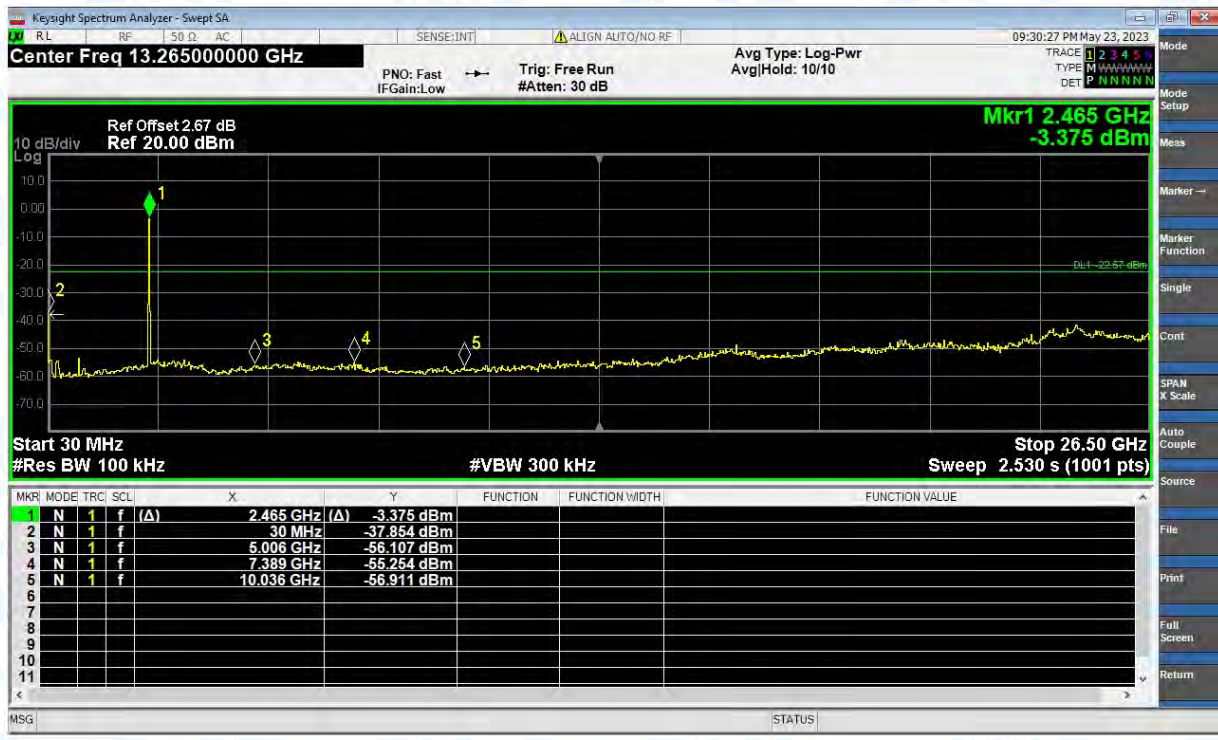
Tx. Spurious NVNT n(HT20) 2437MHz Ant1 Emission



Tx. Spurious NVNT n(HT20) 2462MHz Ant1 Ref



Tx. Spurious NVNT n(HT20) 2462MHz Ant1 Emission



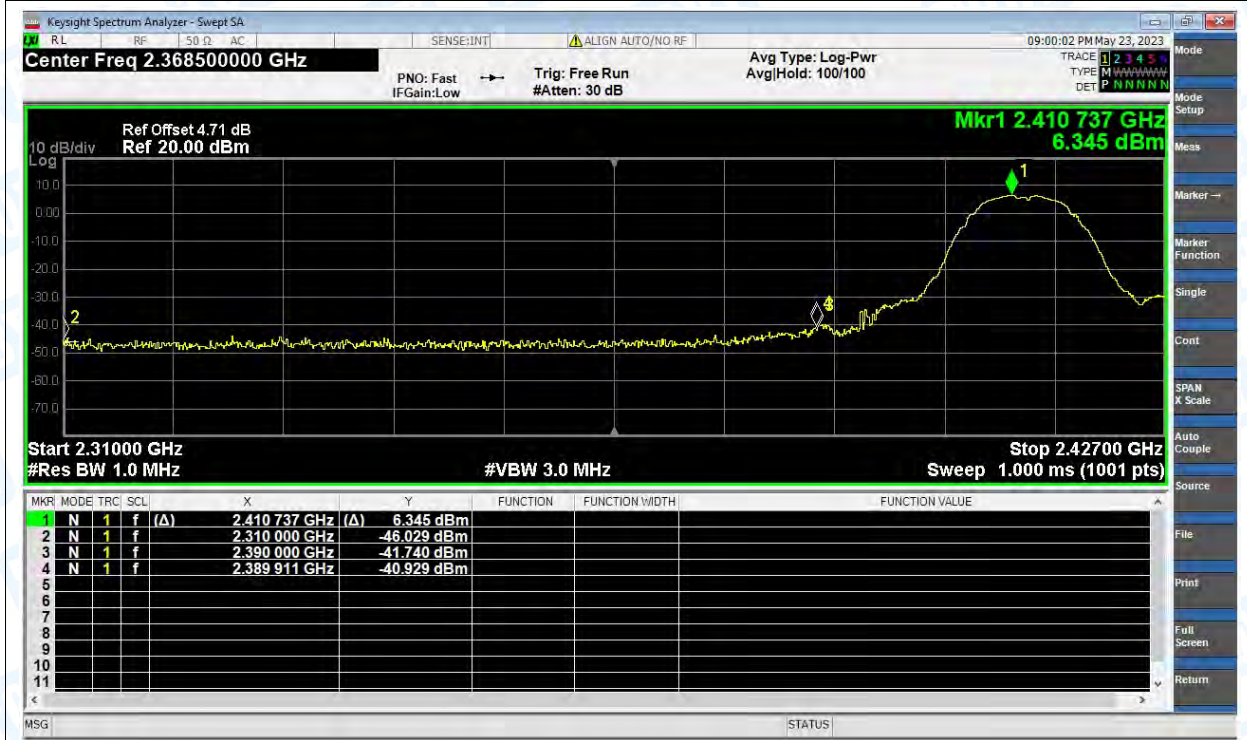
## Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	b	2412	Ant1	2310	-46.03	2.04	51.27	Peak	74	Pass
NVNT	b	2412	Ant1	2310	-56.34	2.04	40.96	Average	54	Pass
NVNT	b	2412	Ant1	2389.911	-40.93	2.04	56.37	Peak	74	Pass
NVNT	b	2412	Ant1	2389.911	-48.78	2.04	48.52	Average	54	Pass
NVNT	b	2412	Ant1	2390	-41.74	2.04	55.56	Peak	74	Pass
NVNT	b	2412	Ant1	2390	-48.12	2.04	49.18	Average	54	Pass
NVNT	b	2462	Ant1	2483.5	-41.84	2.04	55.46	Peak	74	Pass
NVNT	b	2462	Ant1	2483.5	-47.74	2.04	49.56	Average	54	Pass
NVNT	b	2462	Ant1	2484.895	-39.06	2.04	58.24	Peak	74	Pass
NVNT	b	2462	Ant1	2483.517	-47.74	2.04	49.56	Average	54	Pass
NVNT	b	2462	Ant1	2500	-46.48	2.04	50.82	Peak	74	Pass
NVNT	b	2462	Ant1	2500	-55.11	2.04	42.19	Average	54	Pass
NVNT	g	2412	Ant1	2310	-48.27	2.04	49.03	Peak	74	Pass
NVNT	g	2412	Ant1	2310	-54.77	2.04	42.53	Average	54	Pass
NVNT	g	2412	Ant1	2389.677	-32.66	2.04	64.64	Peak	74	Pass
NVNT	g	2412	Ant1	2389.911	-45.55	2.04	51.75	Average	54	Pass
NVNT	g	2412	Ant1	2390	-34.4	2.04	62.9	Peak	74	Pass
NVNT	g	2412	Ant1	2390	-45.32	2.04	51.98	Average	54	Pass
NVNT	g	2462	Ant1	2483.5	-31.56	2.04	65.74	Peak	74	Pass
NVNT	g	2462	Ant1	2483.5	-43.94	2.04	53.36	Average	54	Pass
NVNT	g	2462	Ant1	2483.57	-31.06	2.04	66.24	Peak	74	Pass
NVNT	g	2462	Ant1	2483.941	-43.47	2.04	53.83	Average	54	Pass
NVNT	g	2462	Ant1	2500	-46.49	2.04	50.81	Peak	74	Pass
NVNT	g	2462	Ant1	2500	-53.21	2.04	44.09	Average	54	Pass
NVNT	n(HT20)	2412	Ant1	2310	-47.67	2.04	49.63	Peak	74	Pass
NVNT	n(HT20)	2412	Ant1	2310	-55.13	2.04	42.17	Average	54	Pass
NVNT	n(HT20)	2412	Ant1	2388.39	-33.66	2.04	63.64	Peak	74	Pass
NVNT	n(HT20)	2412	Ant1	2389.911	-46.4	2.04	50.9	Average	54	Pass
NVNT	n(HT20)	2412	Ant1	2390	-35.15	2.04	62.15	Peak	74	Pass
NVNT	n(HT20)	2412	Ant1	2390	-45.77	2.04	51.53	Average	54	Pass
NVNT	n(HT20)	2462	Ant1	2483.5	-29.48	2.04	67.82	Peak	74	Pass
NVNT	n(HT20)	2462	Ant1	2483.5	-45.4	2.04	51.9	Average	54	Pass
NVNT	n(HT20)	2462	Ant1	2483.888	-28.84	2.04	68.46	Peak	74	Pass
NVNT	n(HT20)	2462	Ant1	2483.57	-44.81	2.04	52.49	Average	54	Pass
NVNT	n(HT20)	2462	Ant1	2500	-47.12	2.04	50.18	Peak	74	Pass
NVNT	n(HT20)	2462	Ant1	2500	-53.1	2.04	44.2	Average	54	Pass

Note: The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

Restrict Band NVNT b 2412MHz Ant1 Peak



Restrict Band NVNT b 2412MHz Ant1 Average



Restrict Band NVNT b 2462MHz Ant1 Peak



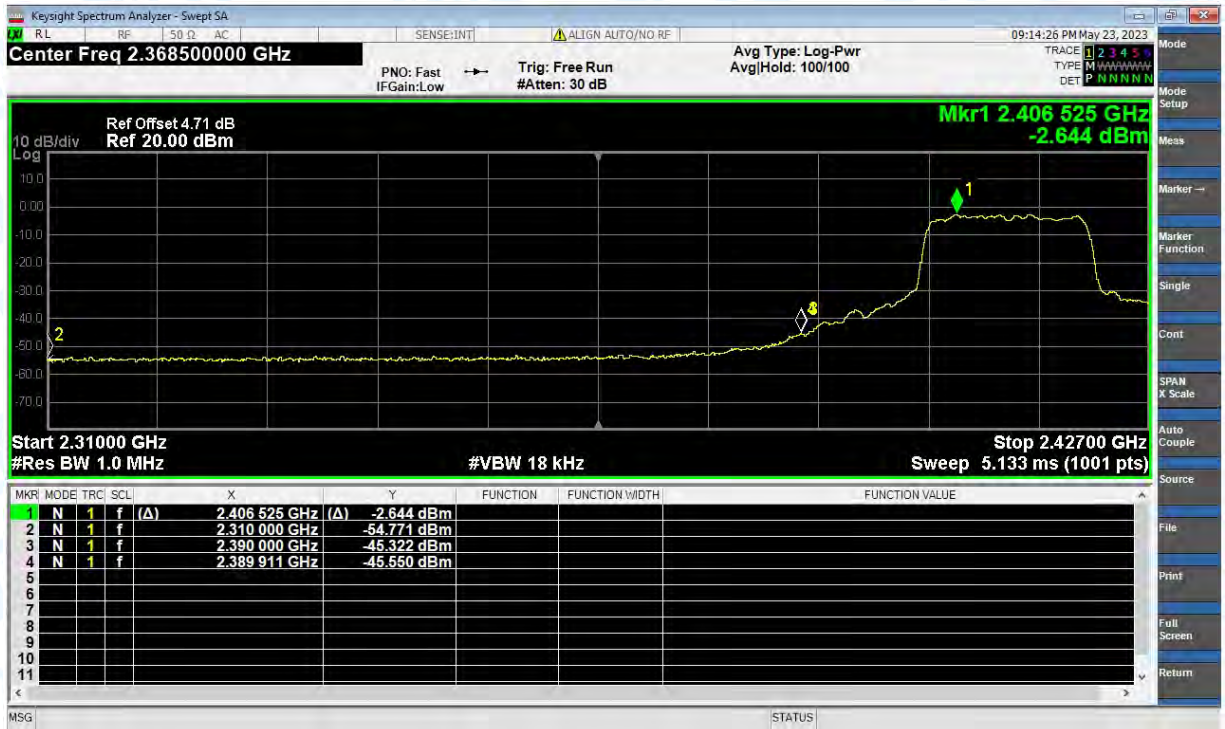
Restrict Band NVNT b 2462MHz Ant1 Average



Restrict Band NVNT g 2412MHz Ant1 Peak



Restrict Band NVNT g 2412MHz Ant1 Average



Restrict Band NVNT g 2462MHz Ant1 Peak



Restrict Band NVNT g 2462MHz Ant1 Average

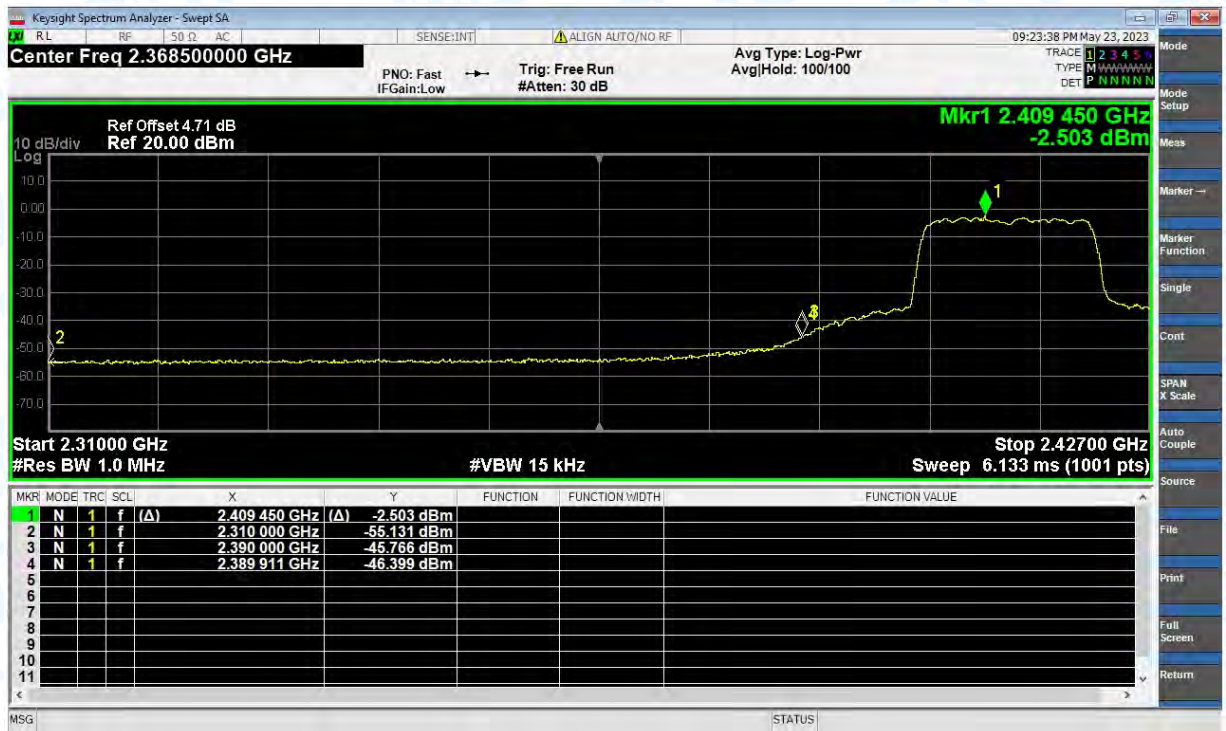




Restrict Band NVNT n(HT20) 2412MHz Ant1 Peak



Restrict Band NVNT n(HT20) 2412MHz Ant1 Average



Restrict Band NVNT n(HT20) 2462MHz Ant1 Peak



Restrict Band NVNT n(HT20) 2462MHz Ant1 Average



-----END OF THE REPORT-----