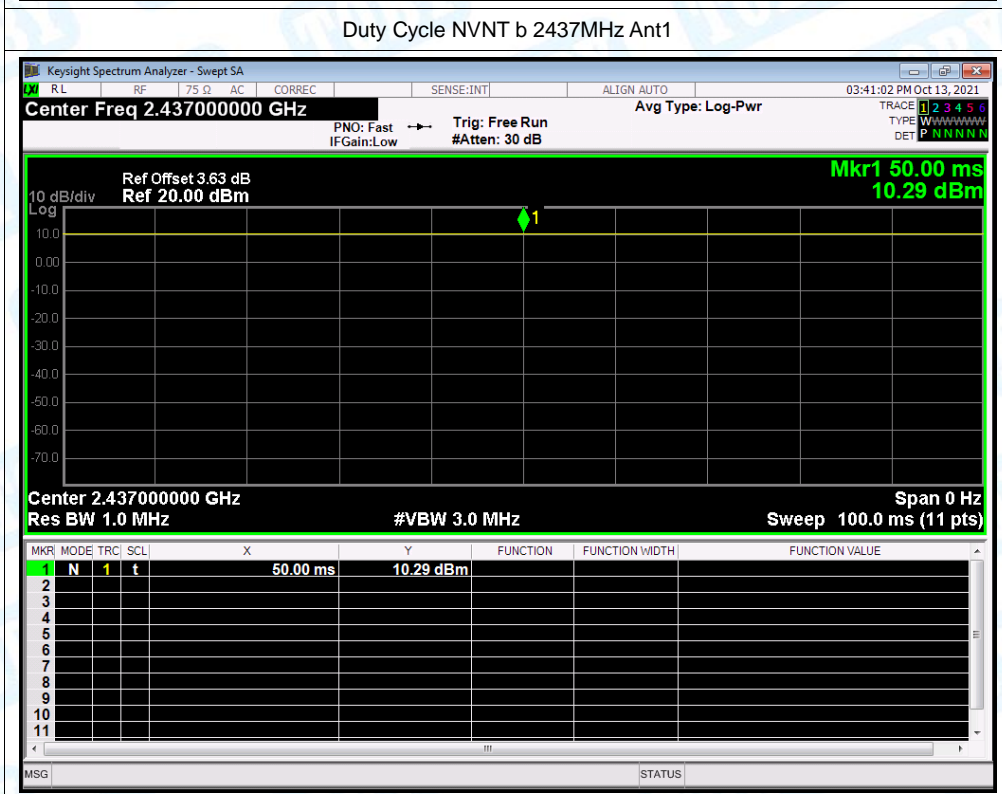
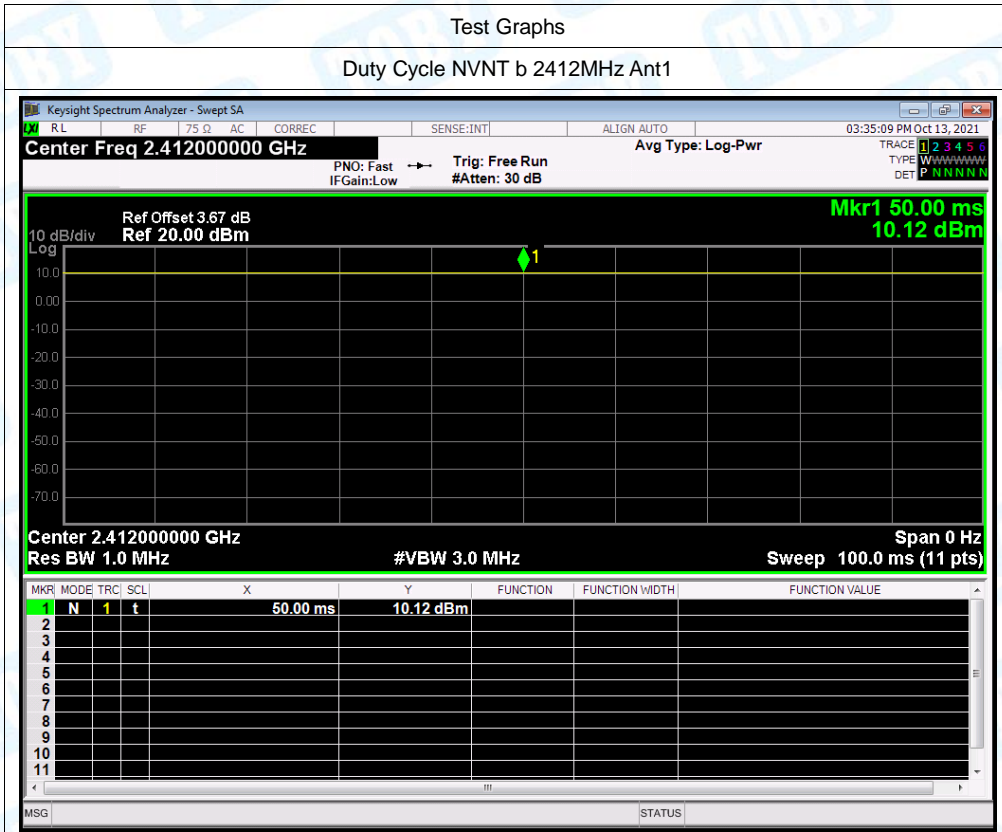


# RF Test Data for 2.4G WiFi (Conducted Measurements)

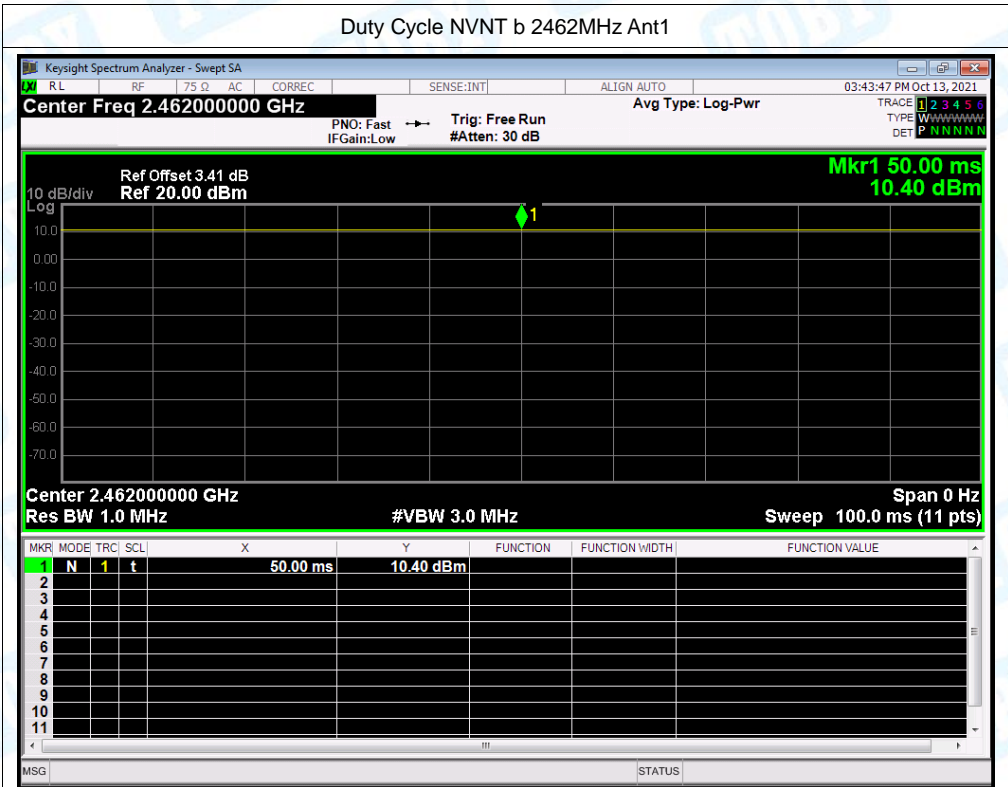
General Description of EUT	
<b>Product Name:</b>	070CH-D
<b>Test Model:</b>	KS070CH-D
<b>Sample ID:</b>	20210804-05_01-02#
Environmental Conditions	
<b>Temperature:</b>	23.8°C
<b>Relative Humidity:</b>	48%
<b>Test Voltage:</b>	DC 5V
<b>Test Engineer:</b>	HeJingchang
Note: For a more detailed features description, please refer to the report TB-FCC184012	

## Duty Cycle

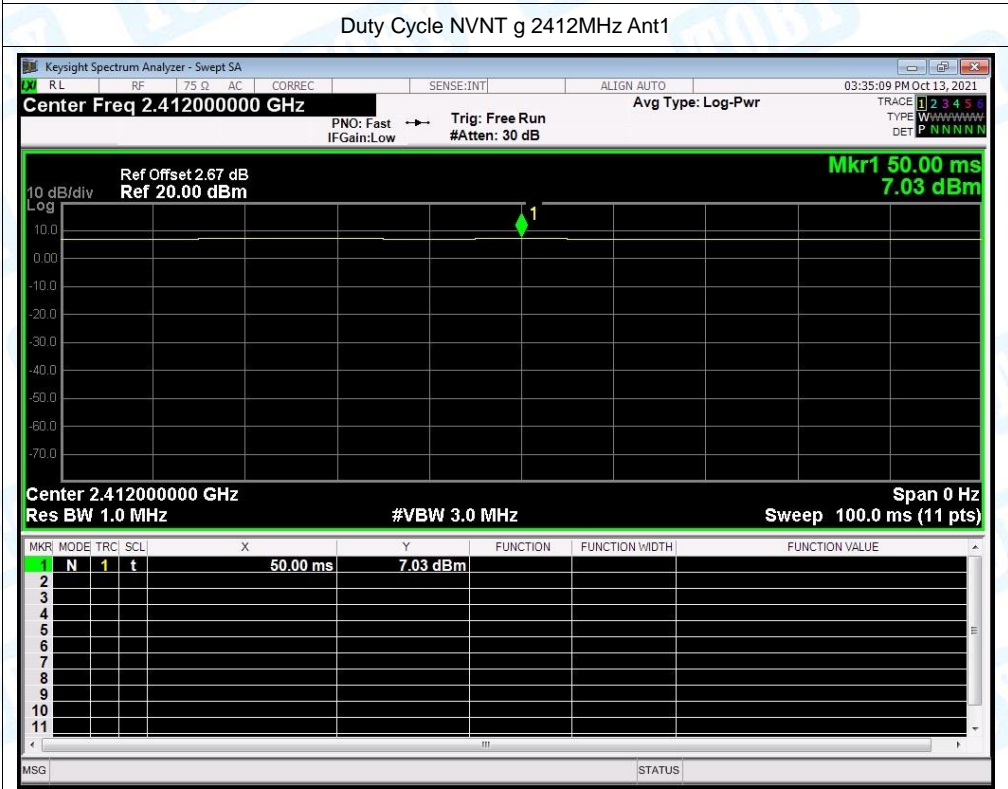
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	100	0	0
NVNT	b	2437	Ant1	100	0	0
NVNT	b	2462	Ant1	100	0	0
NVNT	g	2412	Ant1	100	0	0
NVNT	g	2437	Ant1	100	0	0
NVNT	g	2462	Ant1	100	0	0
NVNT	n(HT20)	2412	Ant1	100	0	0
NVNT	n(HT20)	2437	Ant1	100	0	0
NVNT	n(HT20)	2462	Ant1	100	0	0
NVNT	n(HT40)	2422	Ant1	100	0	0
NVNT	n(HT40)	2437	Ant1	100	0	0
NVNT	n(HT40)	2452	Ant1	100	0	0



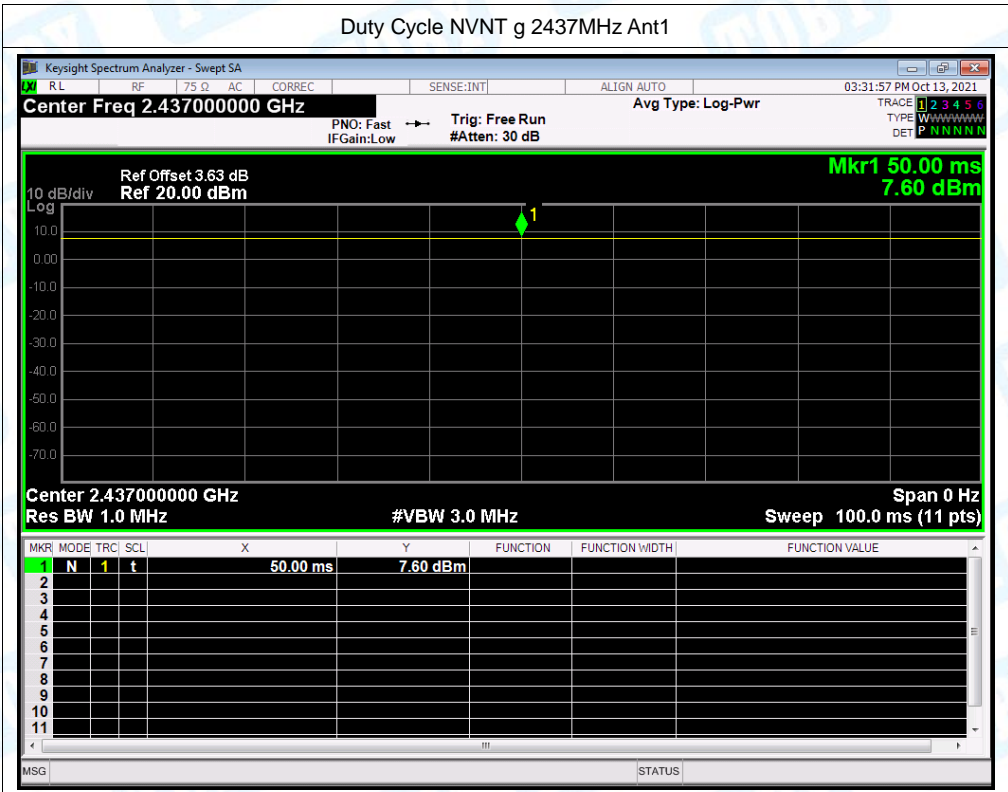
Duty Cycle NVNT b 2462MHz Ant1



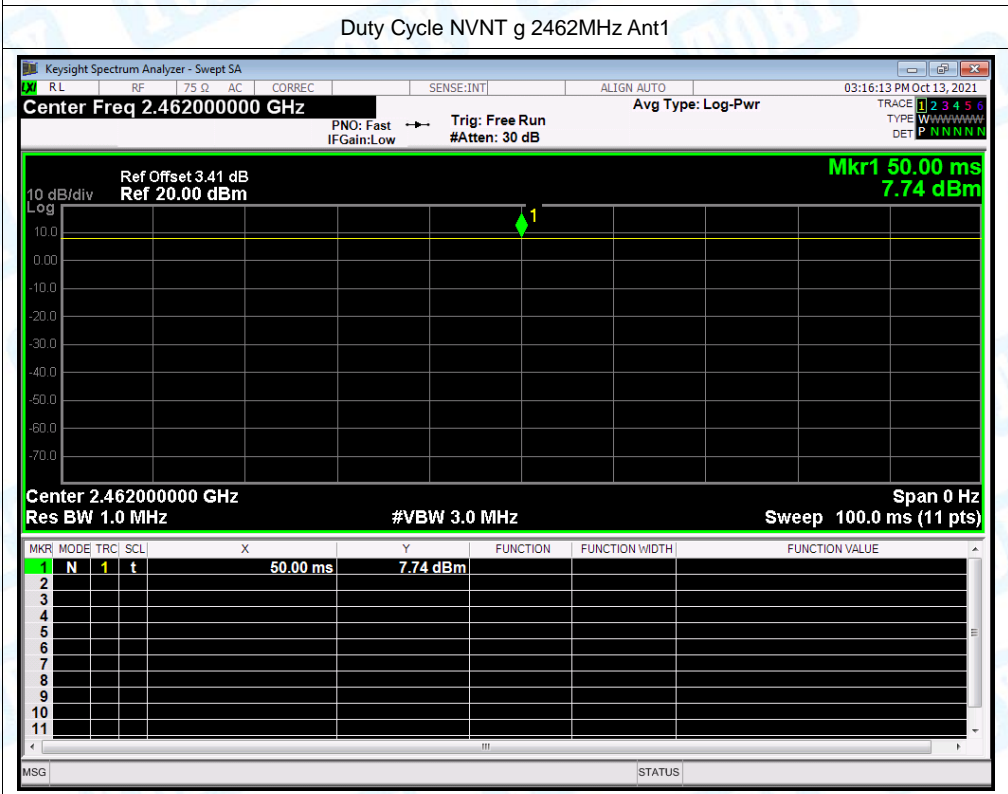
Duty Cycle NVNT g 2412MHz Ant1



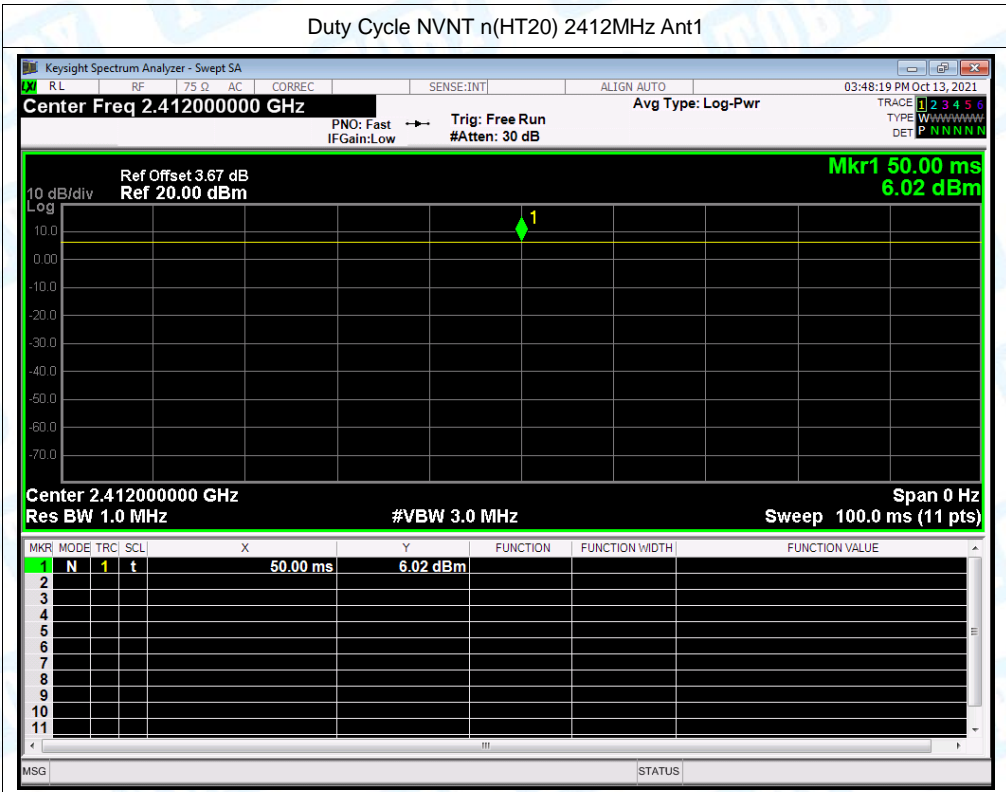
Duty Cycle NVNT g 2437MHz Ant1



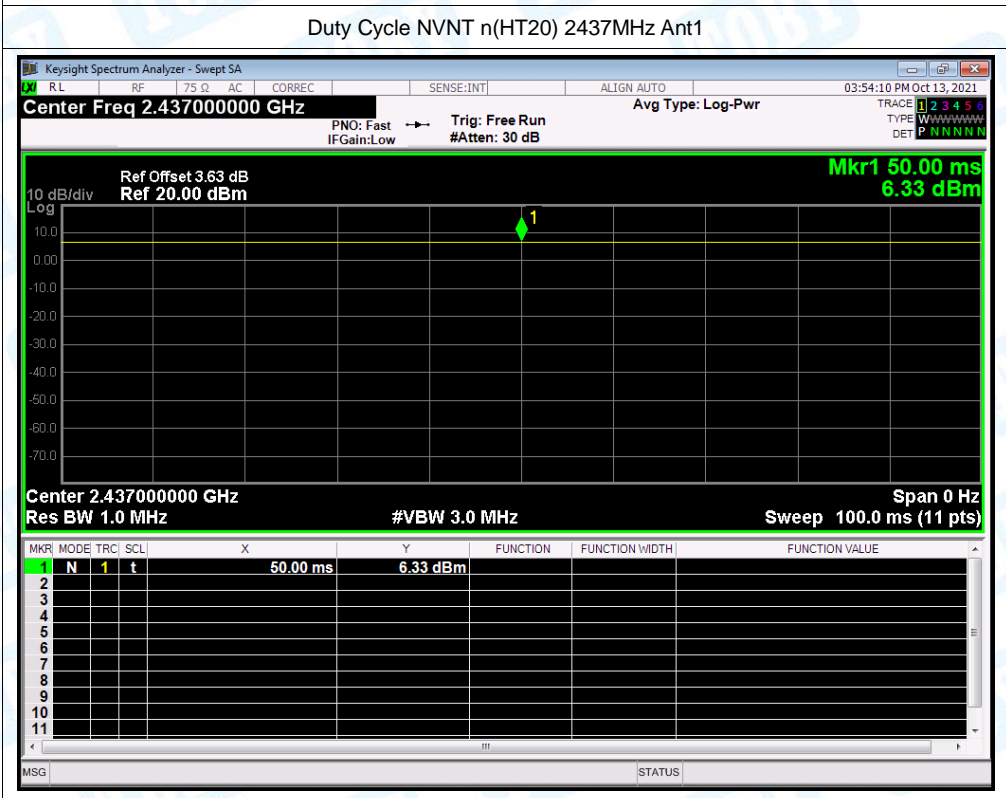
Duty Cycle NVNT g 2462MHz Ant1

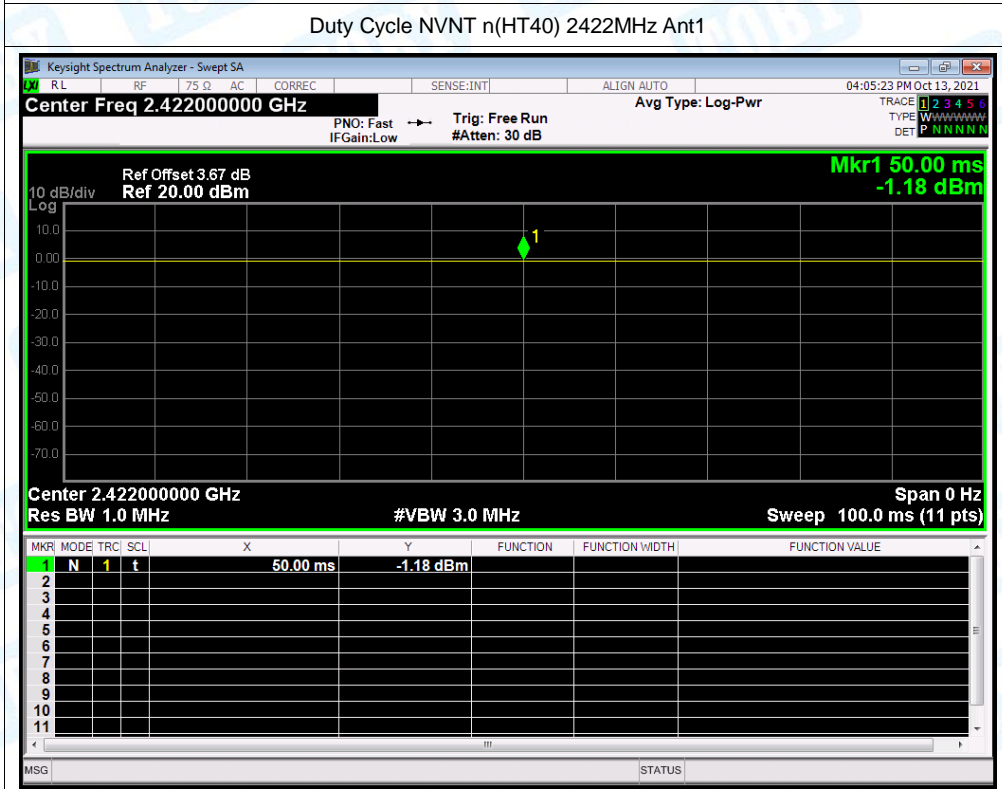
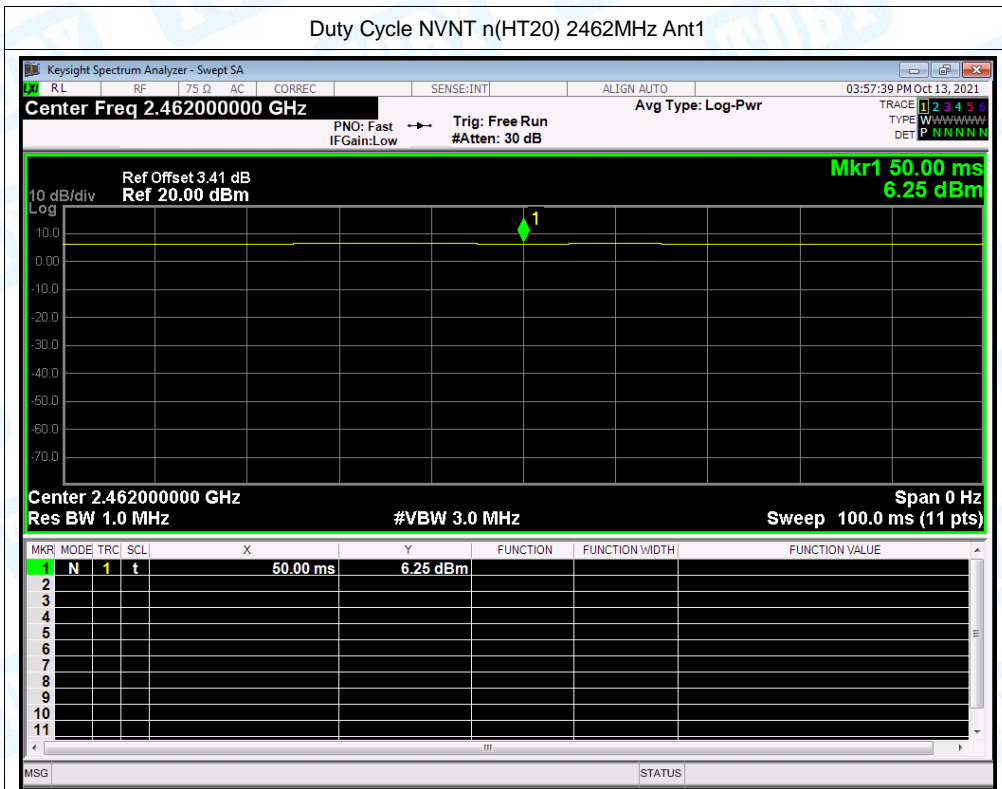


Duty Cycle NVNT n(HT20) 2412MHz Ant1

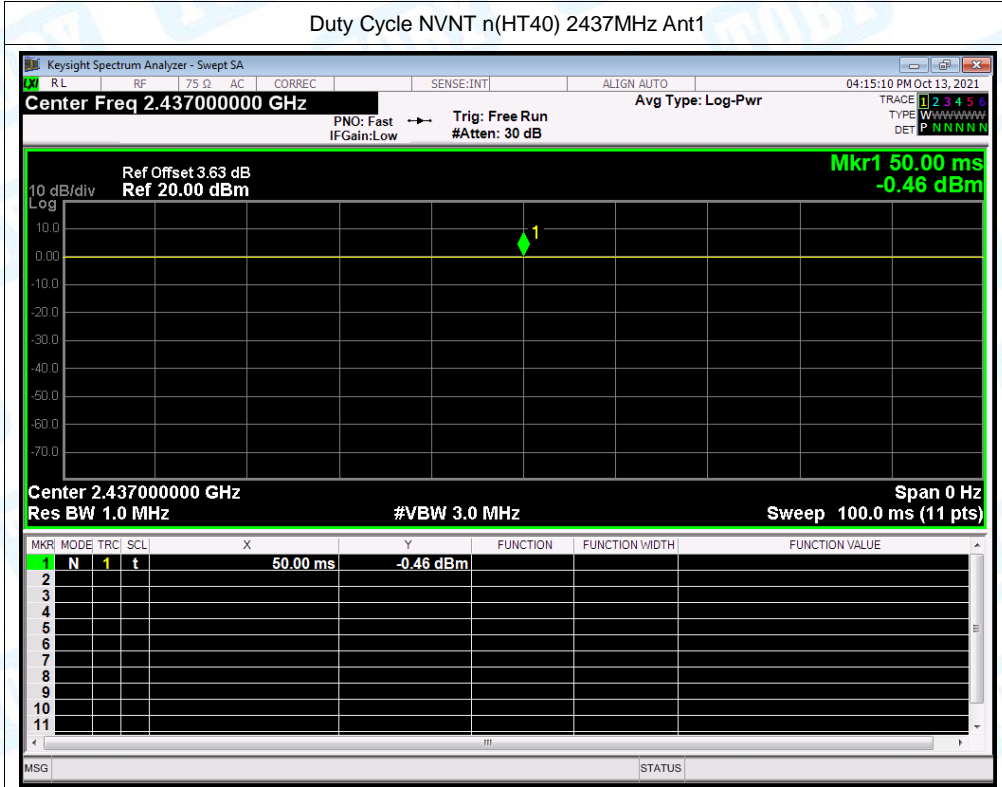


Duty Cycle NVNT n(HT20) 2437MHz Ant1

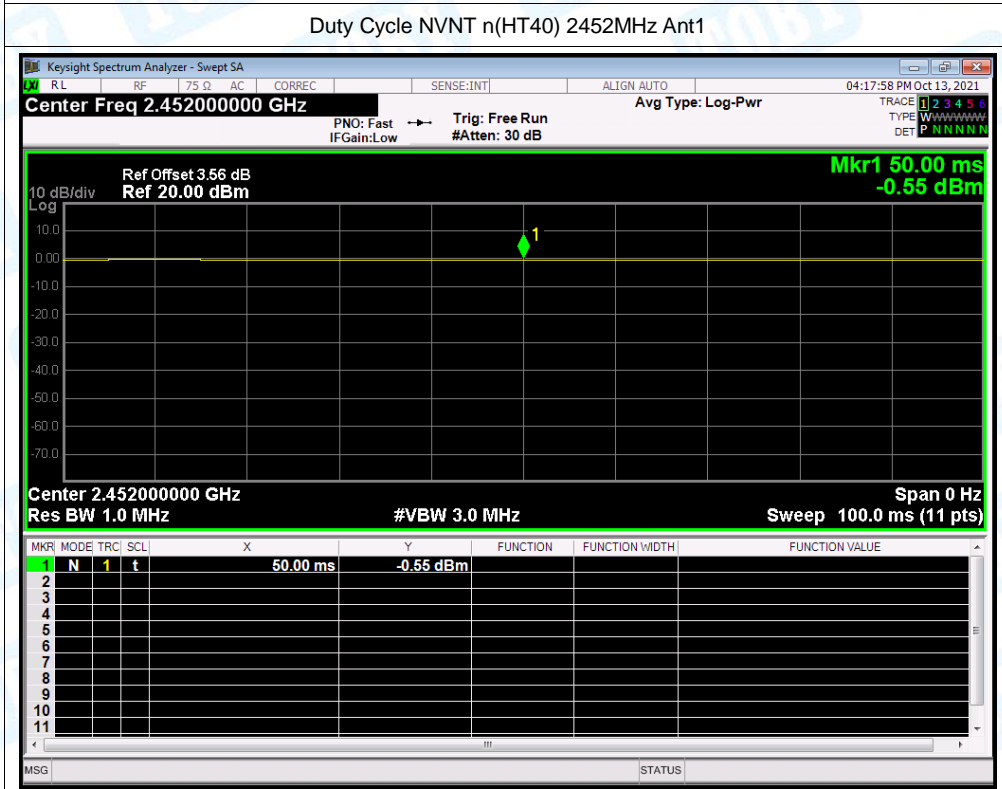




Duty Cycle NVNT n(HT40) 2437MHz Ant1



Duty Cycle NVNT n(HT40) 2452MHz Ant1



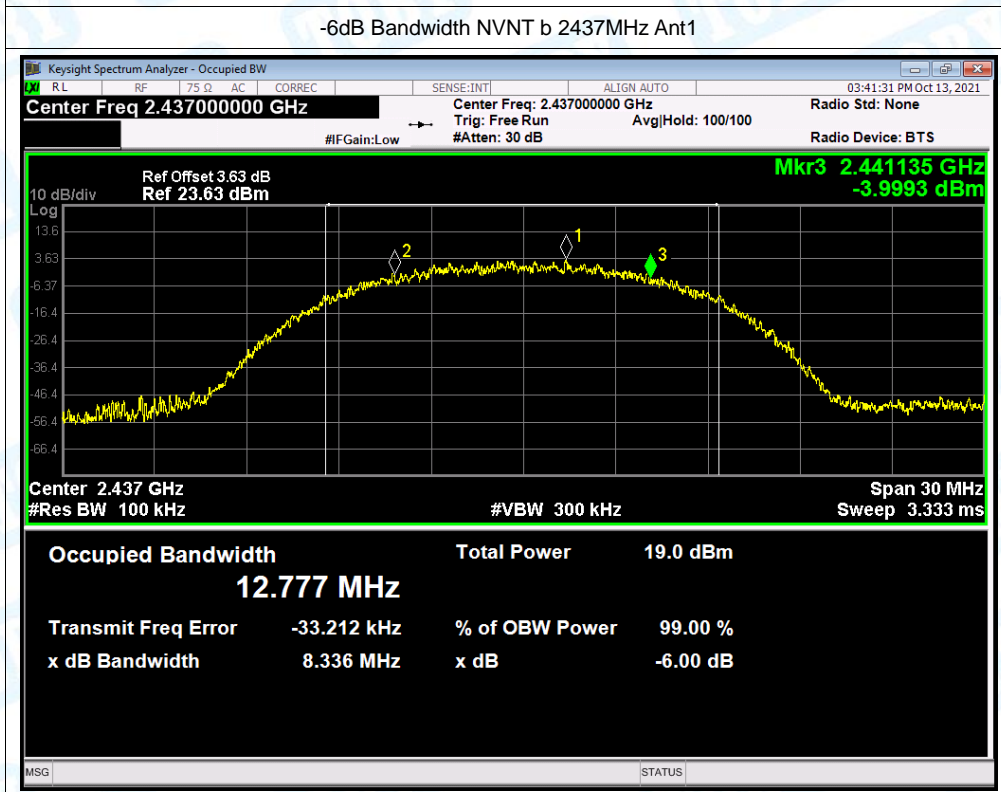
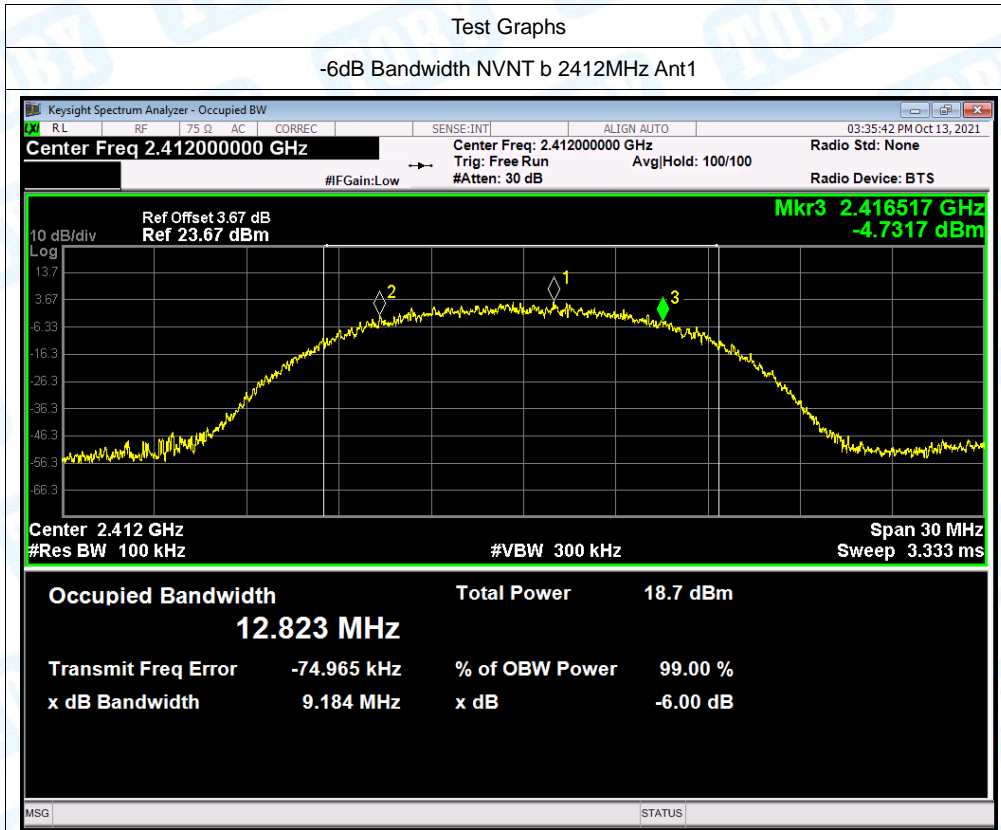
### Maximum Conducted Output Power

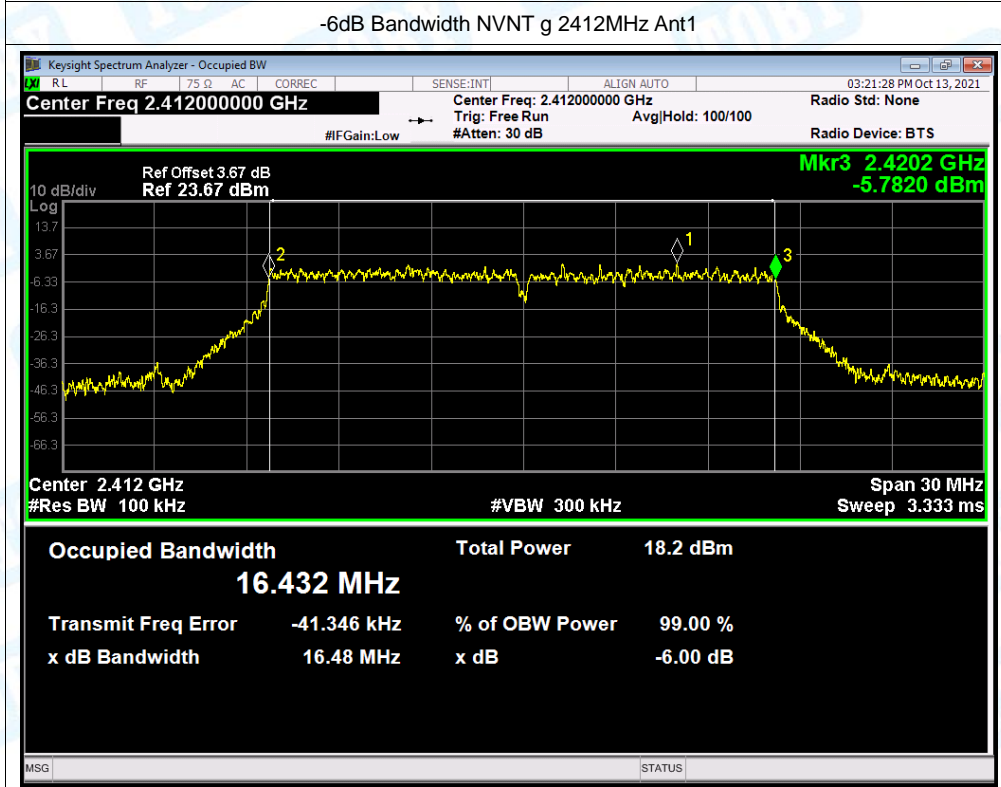
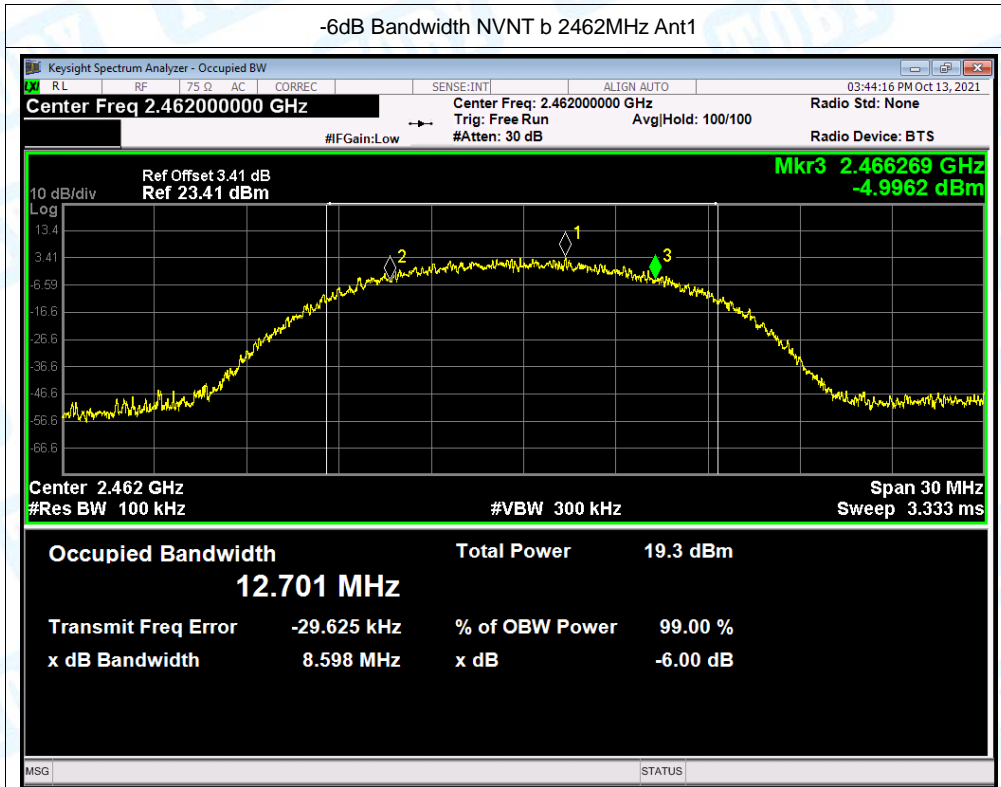
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	7.7	0	7.7	30	Pass
NVNT	b	2437	Ant1	7.5	0	7.5	30	Pass
NVNT	b	2462	Ant1	6.8	0	6.8	30	Pass
NVNT	g	2412	Ant1	7.2	0	7.2	30	Pass
NVNT	g	2437	Ant1	7.9	0	7.9	30	Pass
NVNT	g	2462	Ant1	7.3	0	7.3	30	Pass
NVNT	n(HT20)	2412	Ant1	6.72	0	6.72	30	Pass
NVNT	n(HT20)	2437	Ant1	7.06	0	7.06	30	Pass
NVNT	n(HT20)	2462	Ant1	6.88	0	6.88	30	Pass
NVNT	n(HT40)	2422	Ant1	7.16	0	7.16	30	Pass
NVNT	n(HT40)	2437	Ant1	7.66	0	7.66	30	Pass
NVNT	n(HT40)	2452	Ant1	7.51	0	7.51	30	Pass

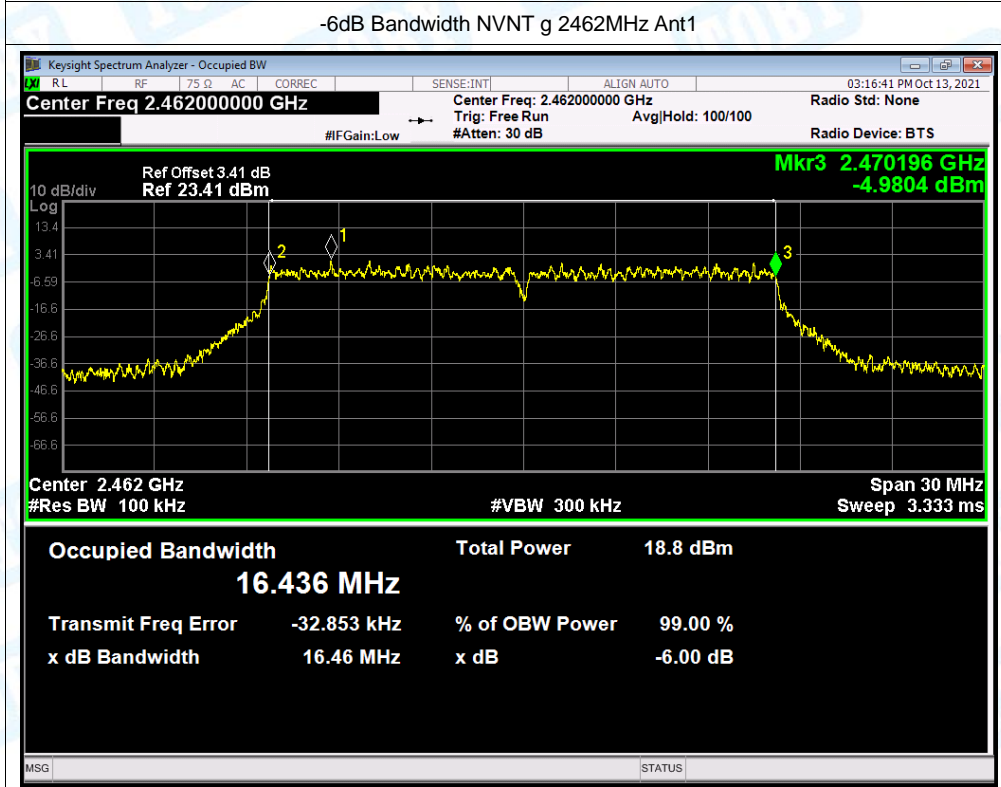
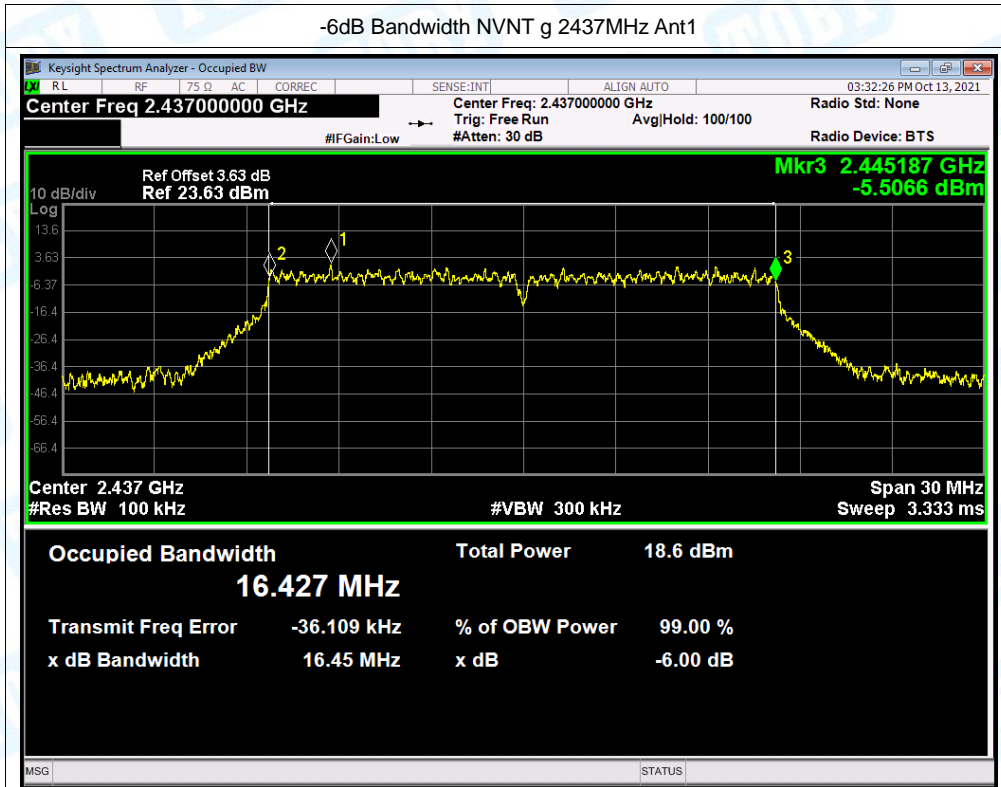


**-6dB Bandwidth**

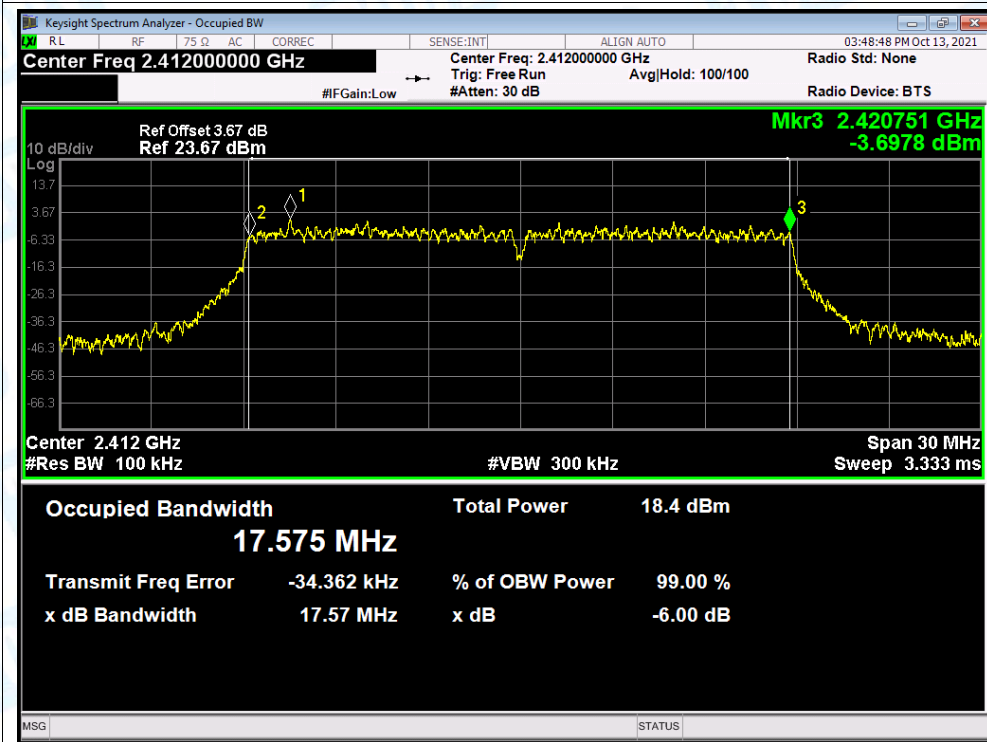
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.184	0.5	Pass
NVNT	b	2437	Ant1	8.336	0.5	Pass
NVNT	b	2462	Ant1	8.598	0.5	Pass
NVNT	g	2412	Ant1	16.48	0.5	Pass
NVNT	g	2437	Ant1	16.48	0.5	Pass
NVNT	g	2462	Ant1	16.46	0.5	Pass
NVNT	n(HT20)	2412	Ant1	17.57	0.5	Pass
NVNT	n(HT20)	2437	Ant1	17.65	0.5	Pass
NVNT	n(HT20)	2462	Ant1	17.57	0.5	Pass
NVNT	n(HT40)	2422	Ant1	35.74	0.5	Pass
NVNT	n(HT40)	2437	Ant1	36.40	0.5	Pass
NVNT	n(HT40)	2452	Ant1	36.38	0.5	Pass



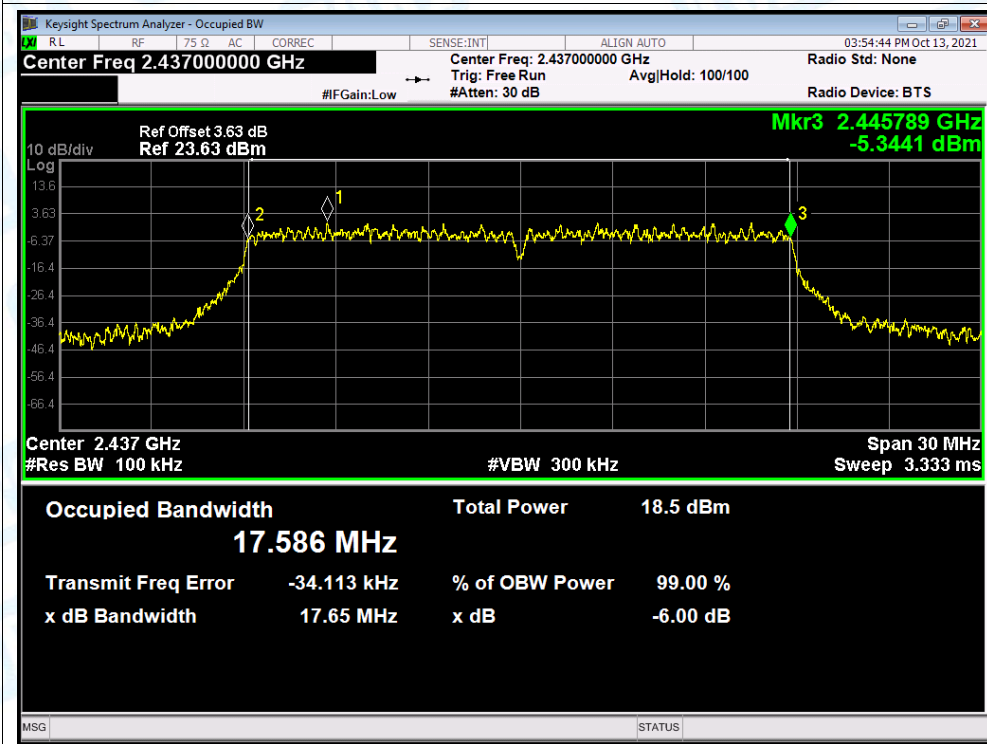




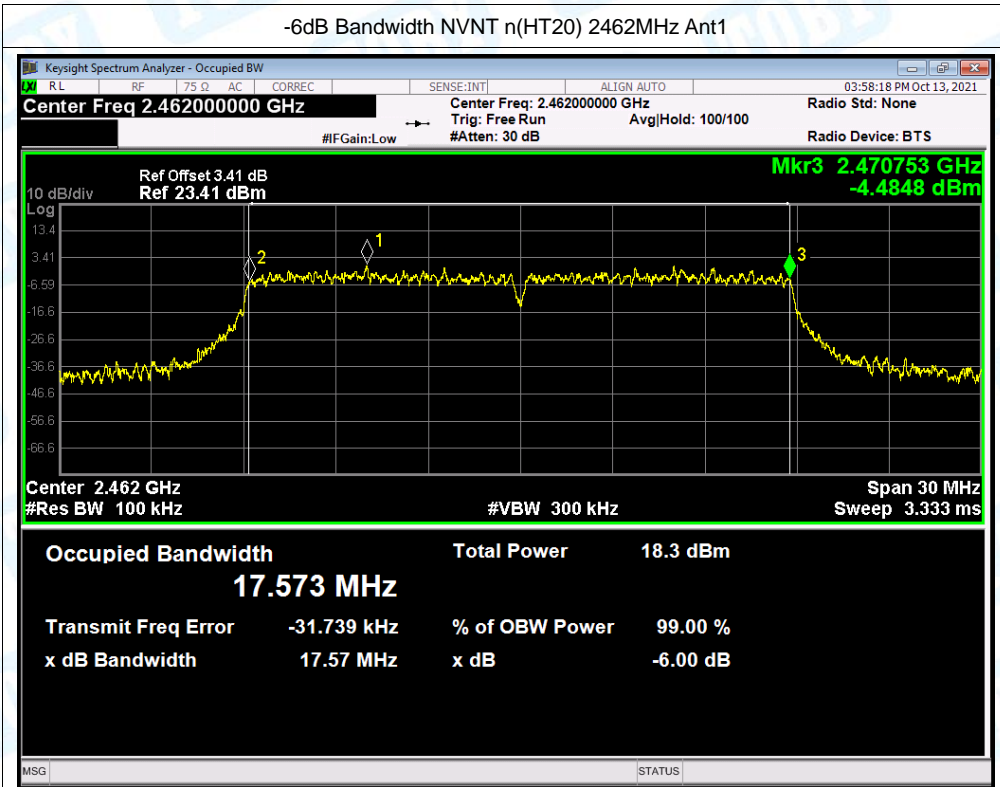
-6dB Bandwidth NVNT n(HT20) 2412MHz Ant1



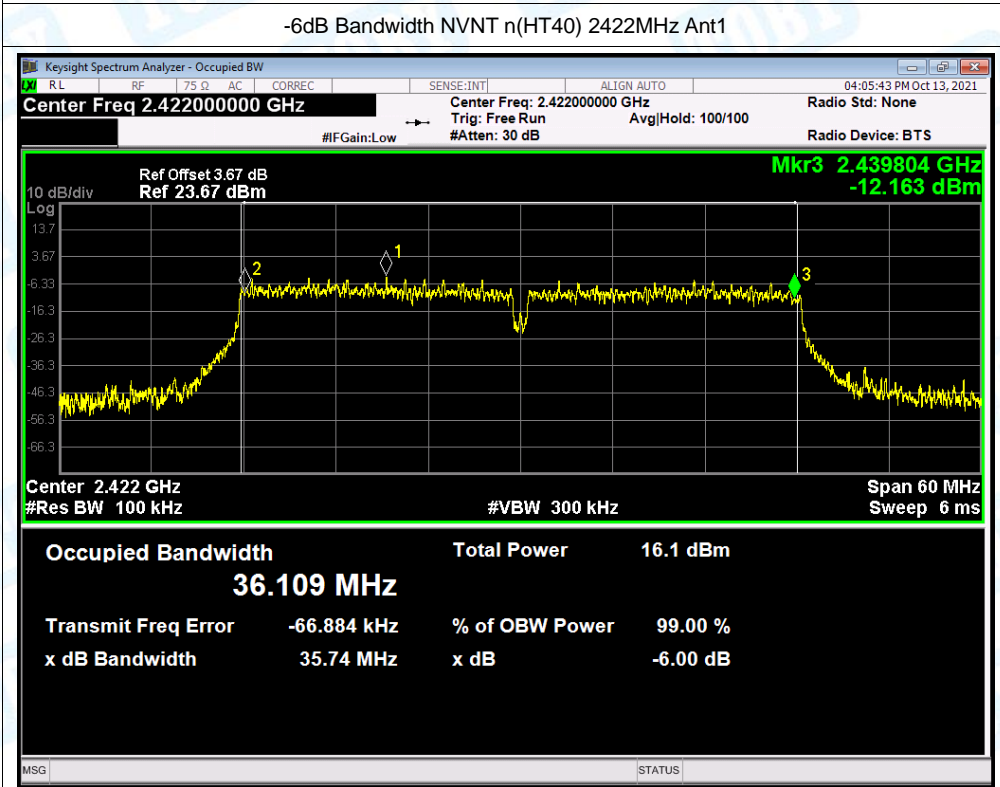
-6dB Bandwidth NVNT n(HT20) 2437MHz Ant1



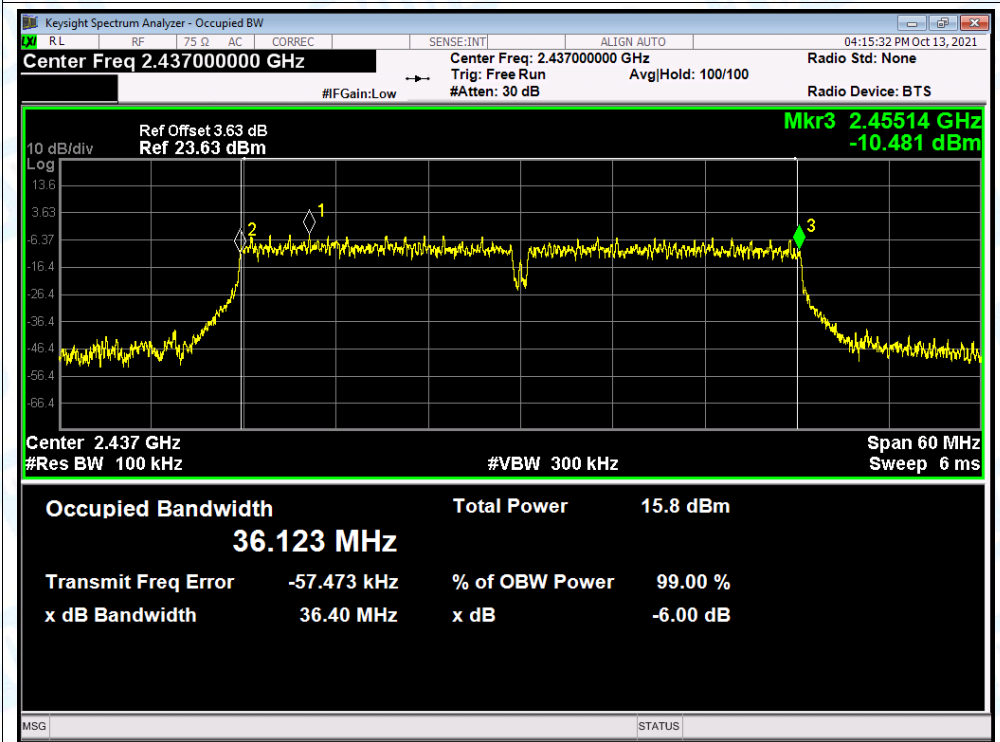
-6dB Bandwidth NVNT n(HT20) 2462MHz Ant1



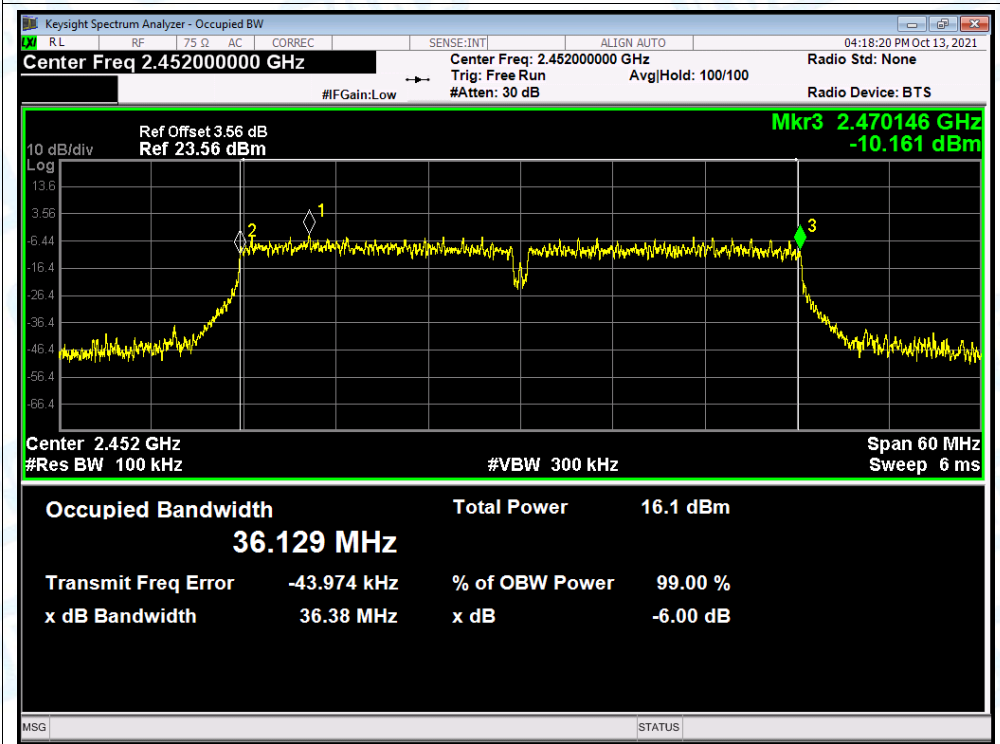
-6dB Bandwidth NVNT n(HT40) 2422MHz Ant1



-6dB Bandwidth NVNT n(HT40) 2437MHz Ant1



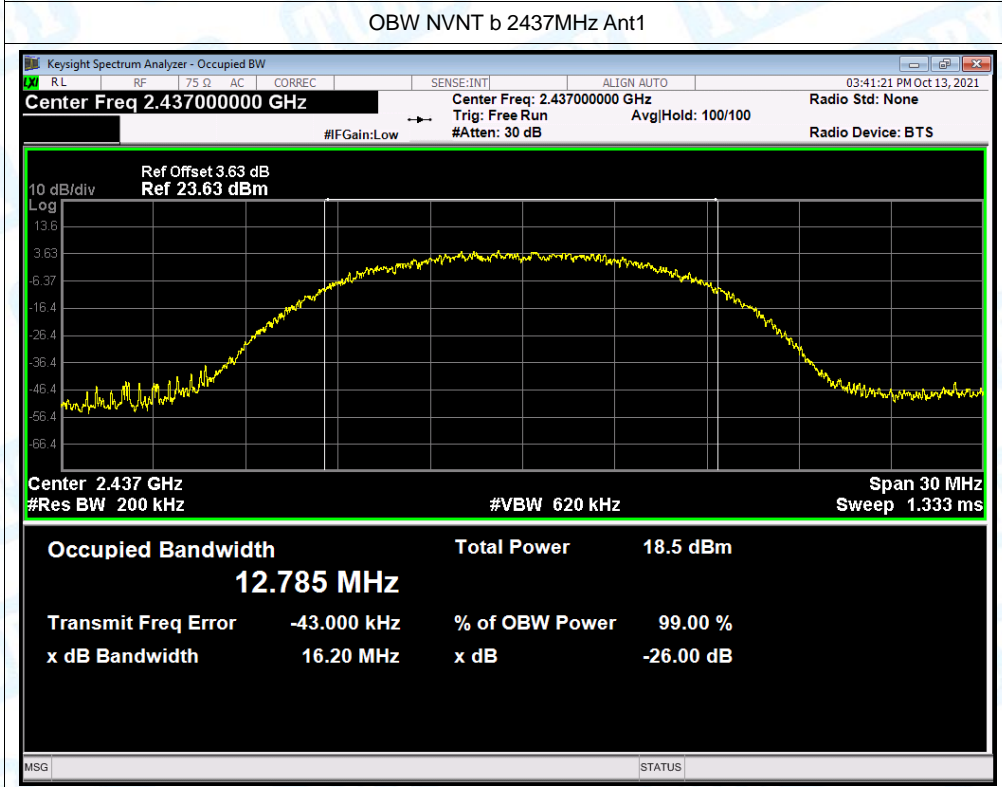
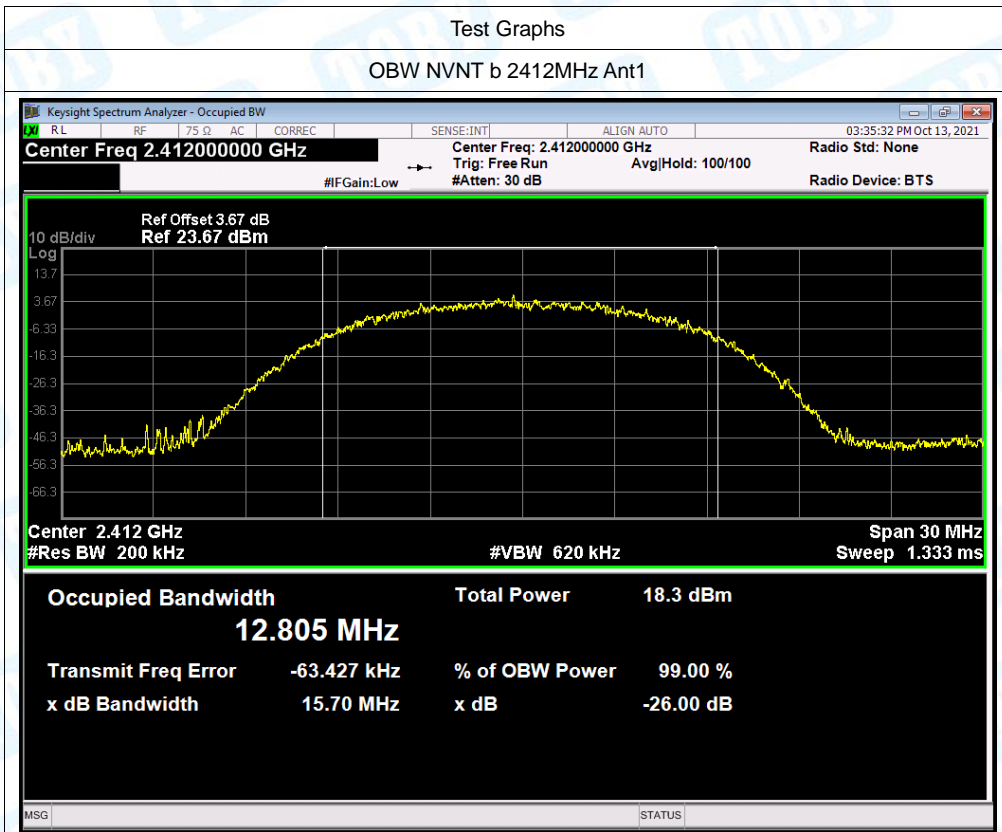
-6dB Bandwidth NVNT n(HT40) 2452MHz Ant1



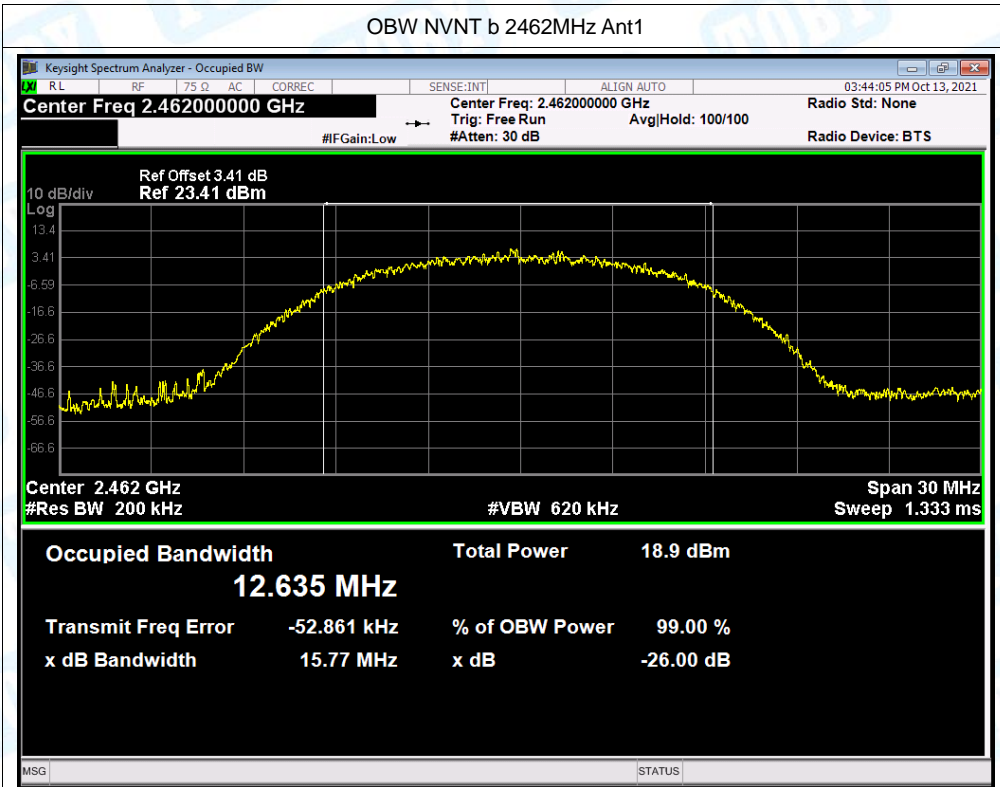
### Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	12.8045
NVNT	b	2437	Ant1	12.785
NVNT	b	2462	Ant1	12.635
NVNT	g	2412	Ant1	16.531
NVNT	g	2437	Ant1	16.523
NVNT	g	2462	Ant1	16.529
NVNT	n(HT20)	2412	Ant1	17.601
NVNT	n(HT20)	2437	Ant1	17.581
NVNT	n(HT20)	2462	Ant1	17.602
NVNT	n(HT40)	2422	Ant1	36.186
NVNT	n(HT40)	2437	Ant1	36.205
NVNT	n(HT40)	2452	Ant1	36.235

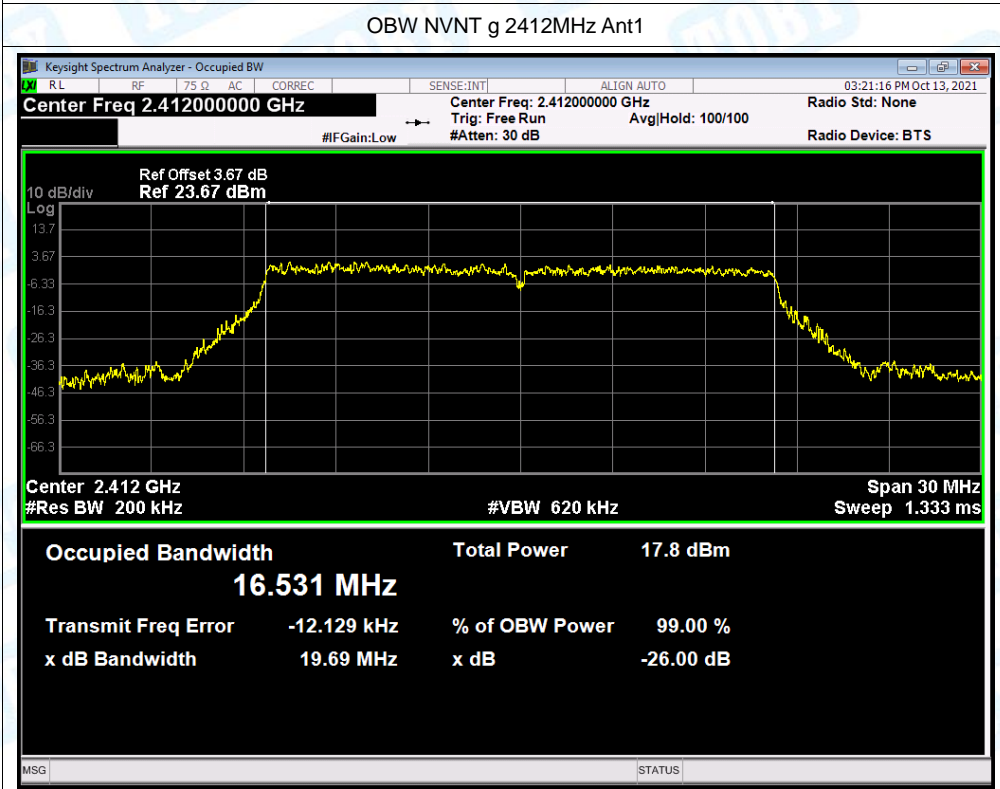




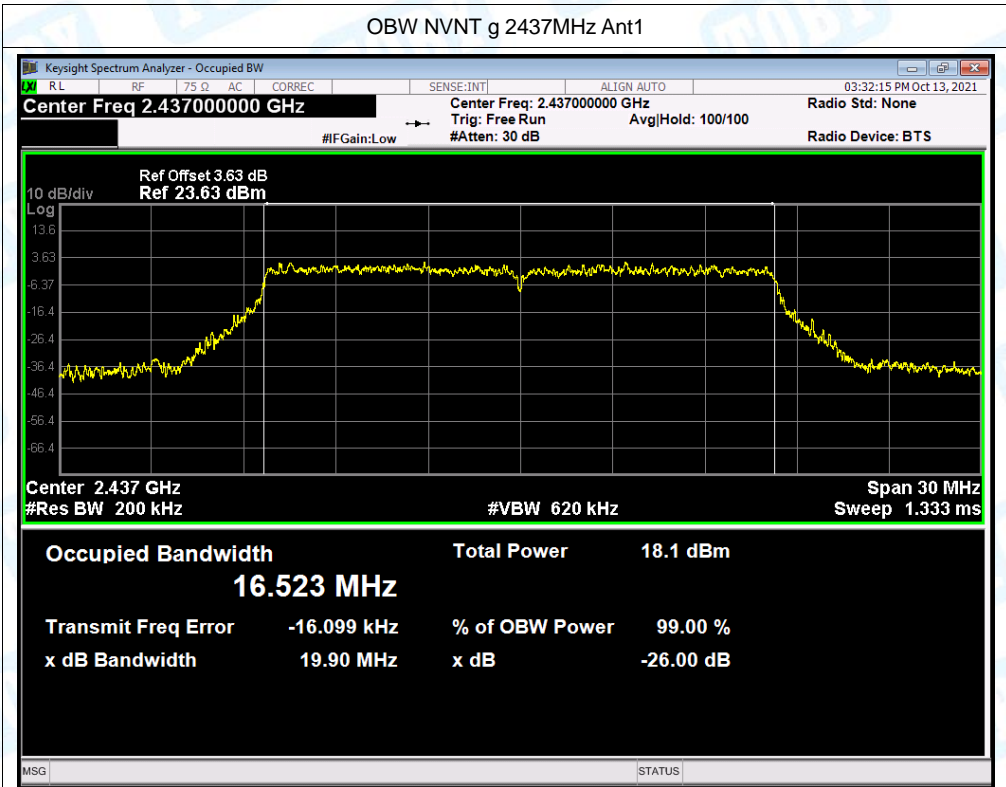
OBW NVNT b 2462MHz Ant1



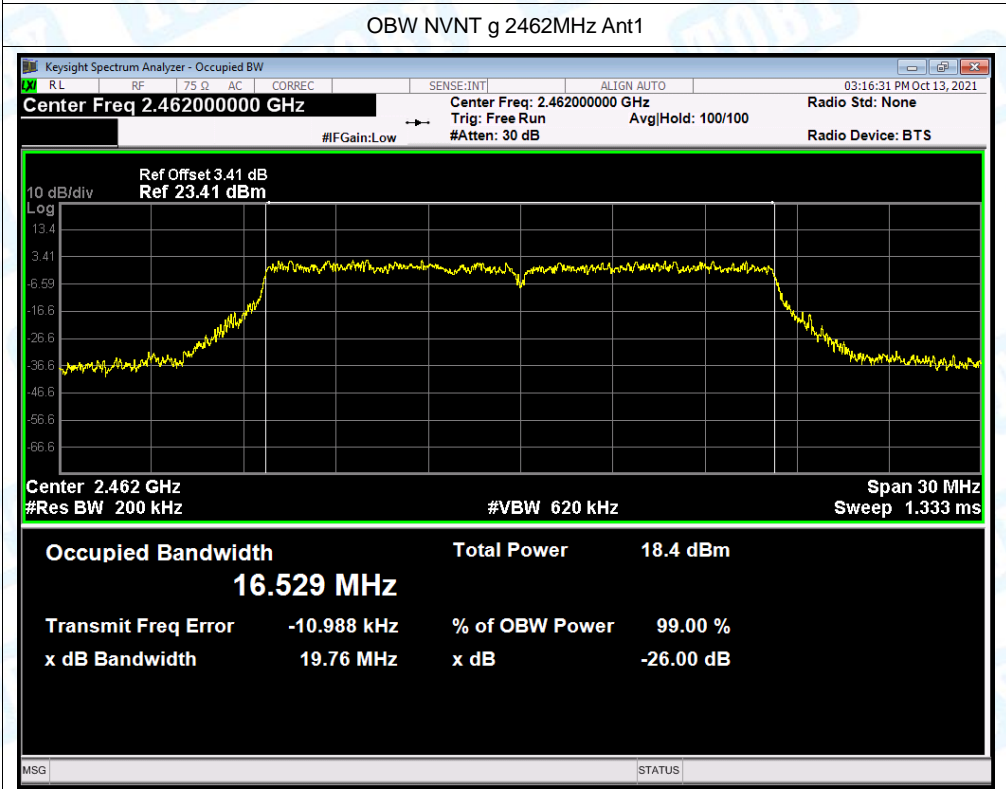
OBW NVNT g 2412MHz Ant1



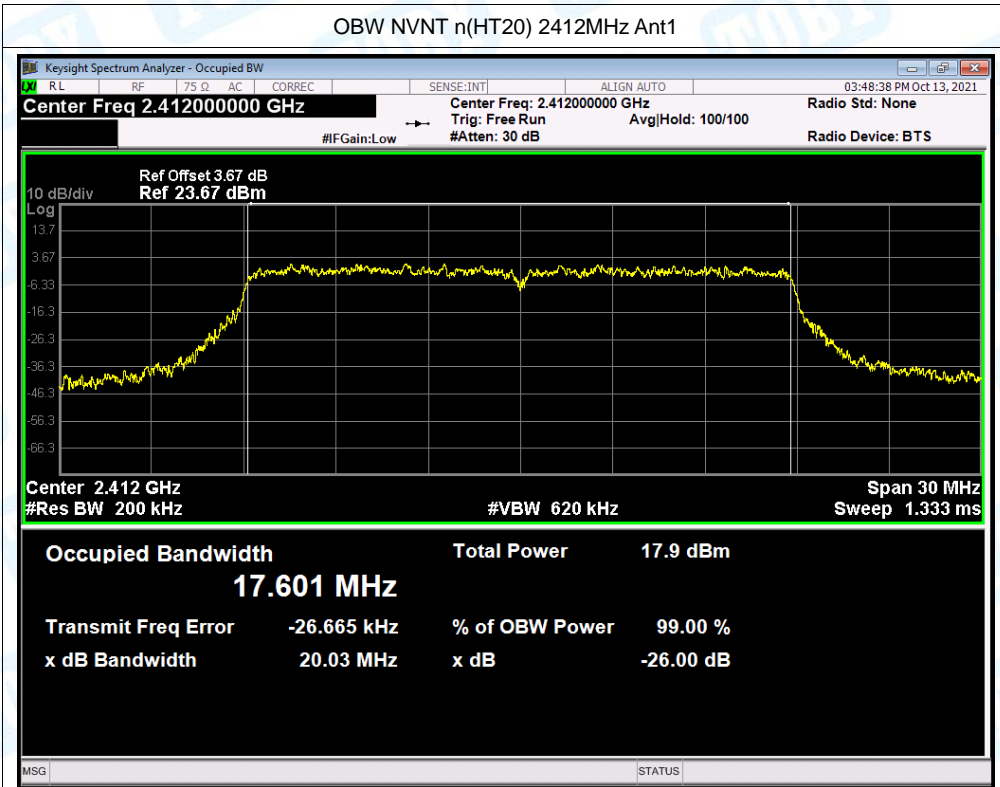
OBW NVNT g 2437MHz Ant1



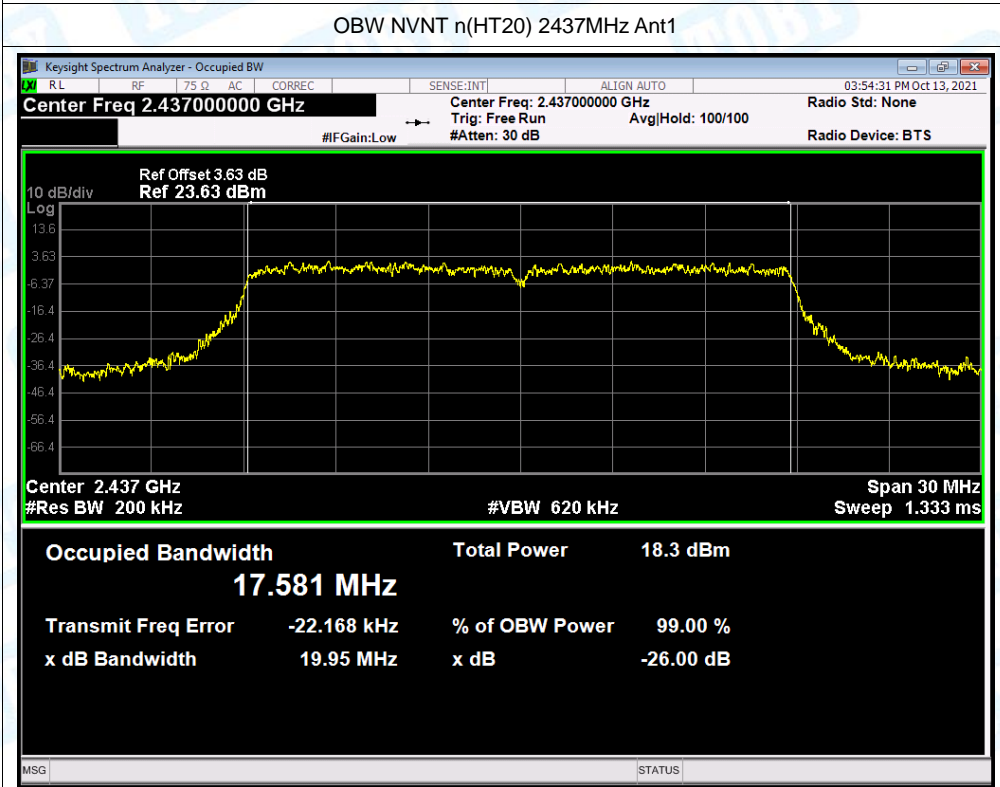
OBW NVNT g 2462MHz Ant1



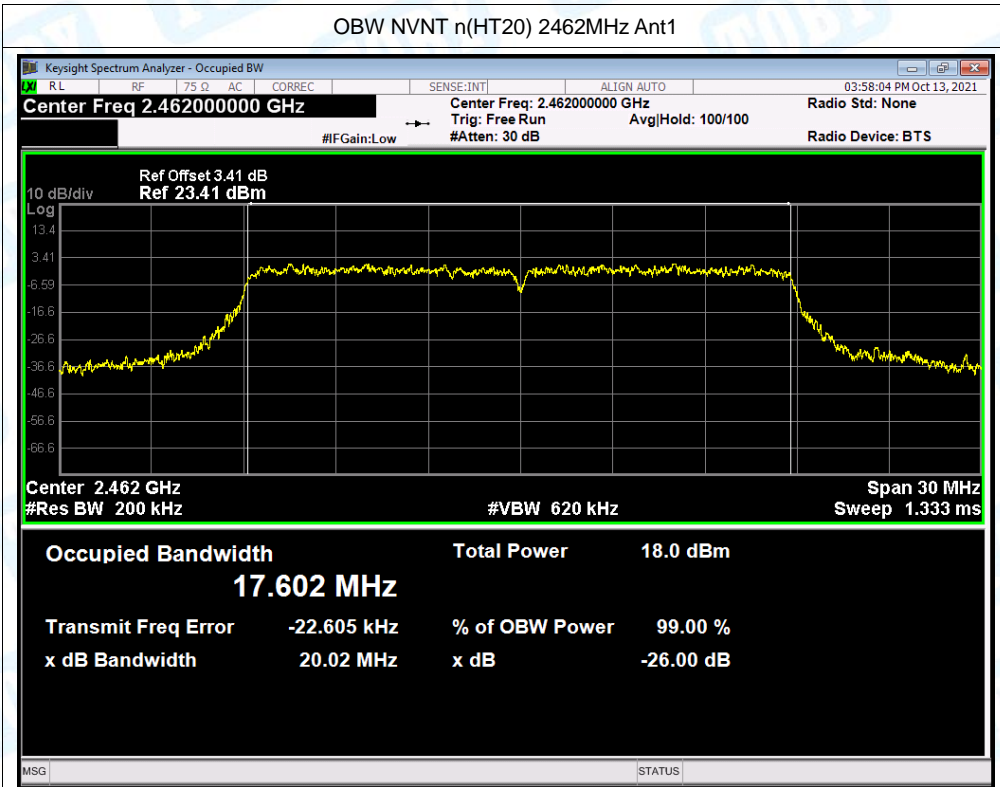
OBW NVNT n(HT20) 2412MHz Ant1



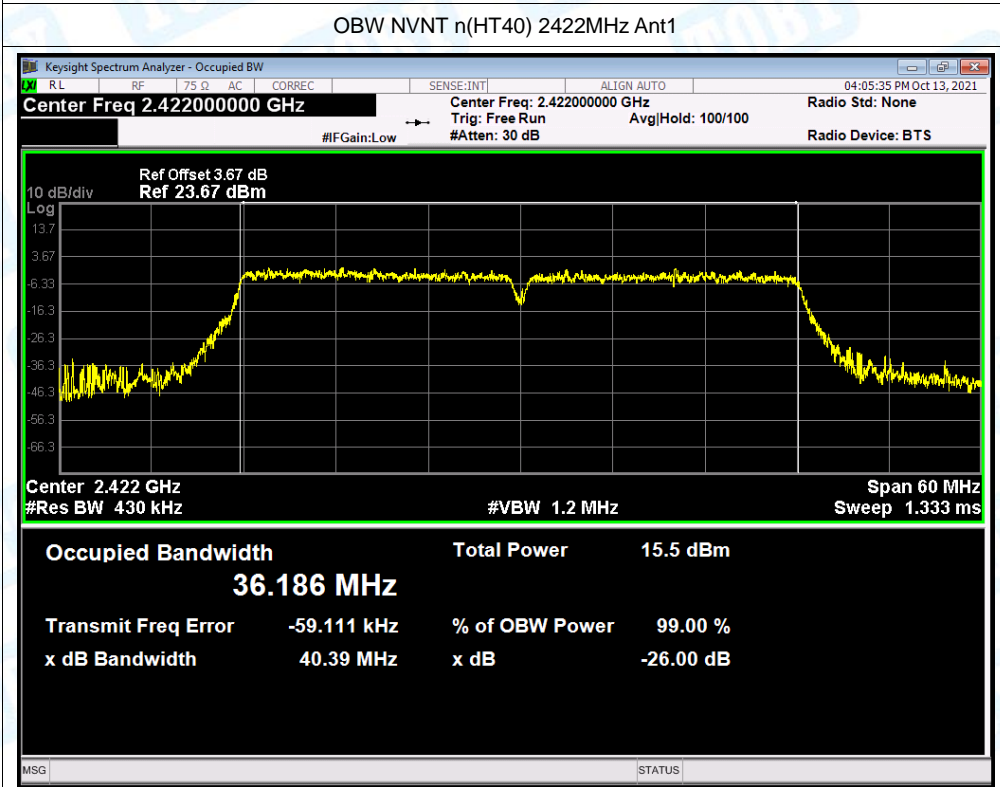
OBW NVNT n(HT20) 2437MHz Ant1



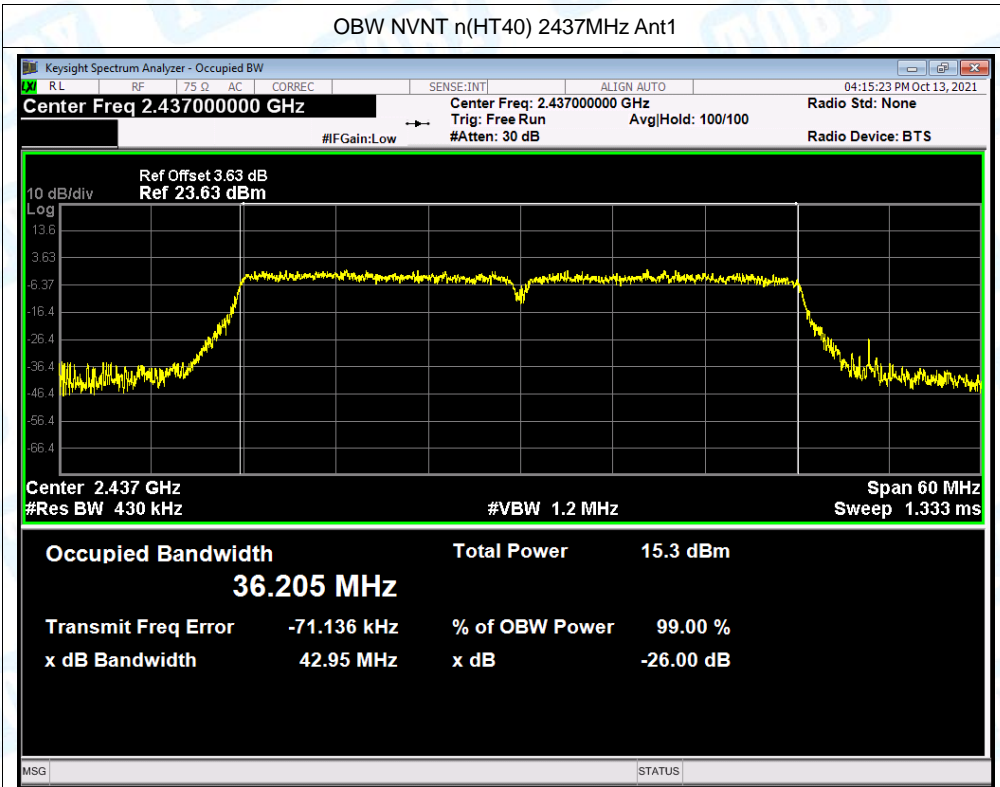
OBW NVNT n(HT20) 2462MHz Ant1



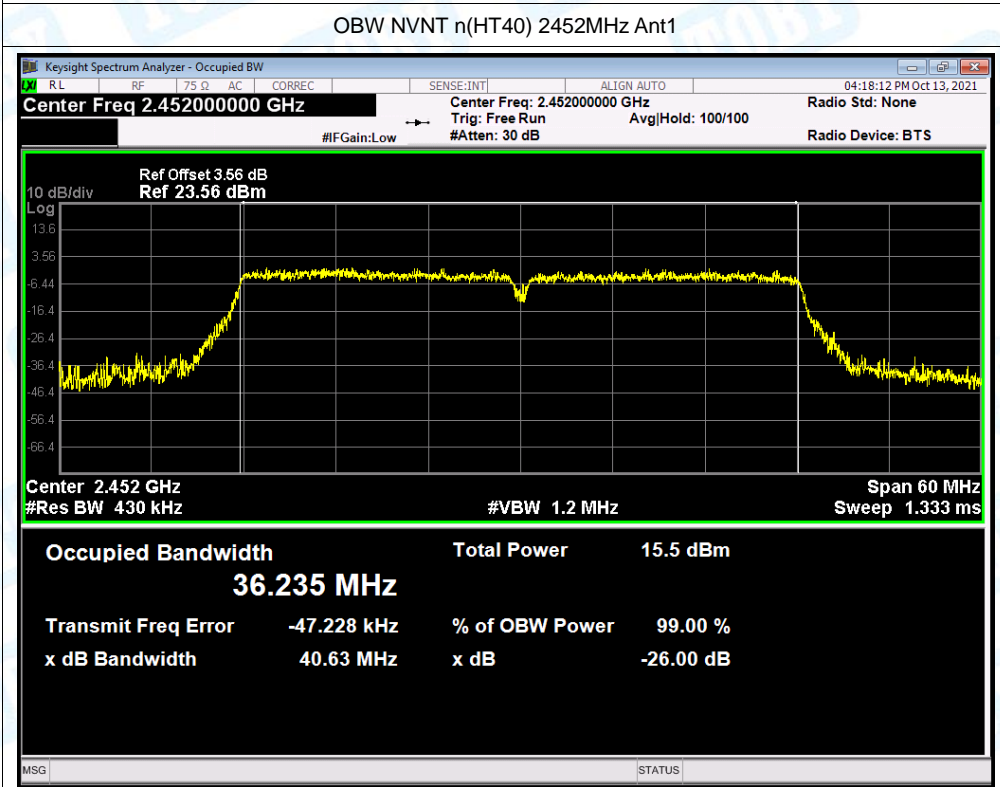
OBW NVNT n(HT40) 2422MHz Ant1



OBW NVNT n(HT40) 2437MHz Ant1

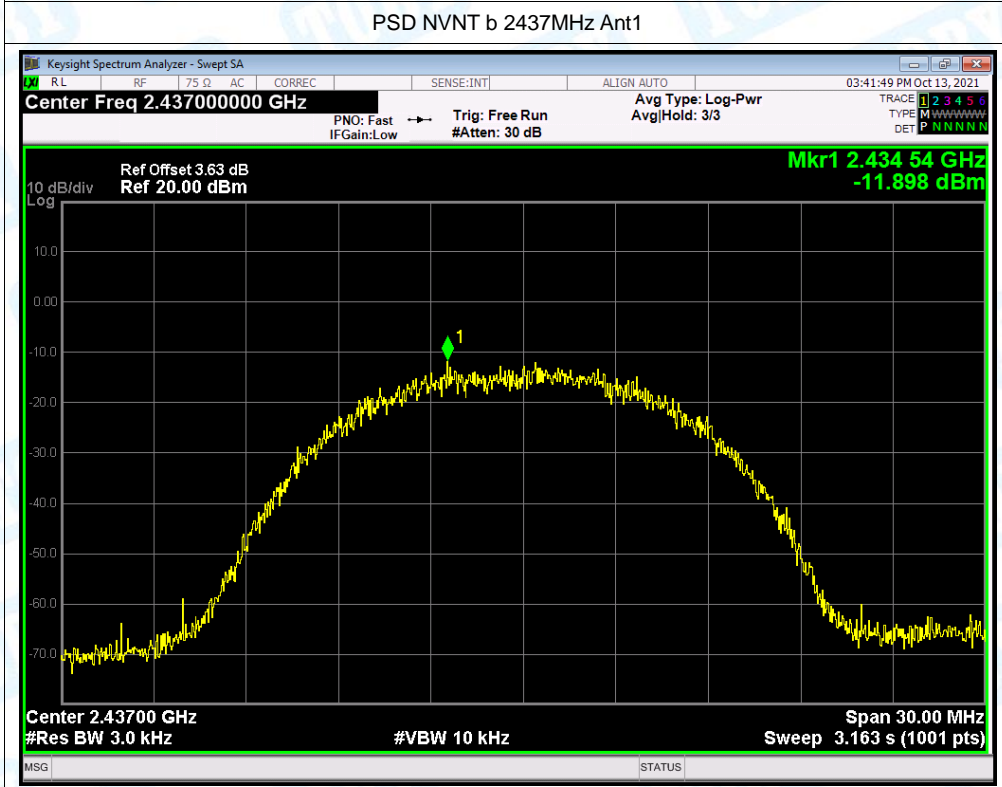
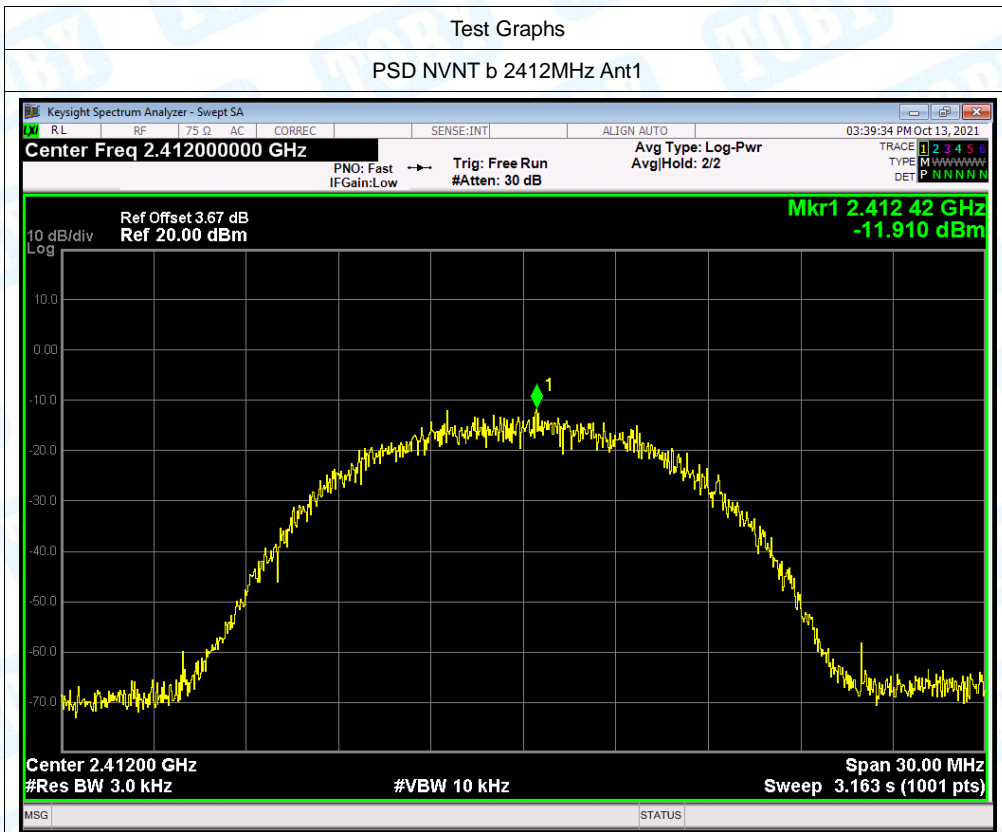


OBW NVNT n(HT40) 2452MHz Ant1



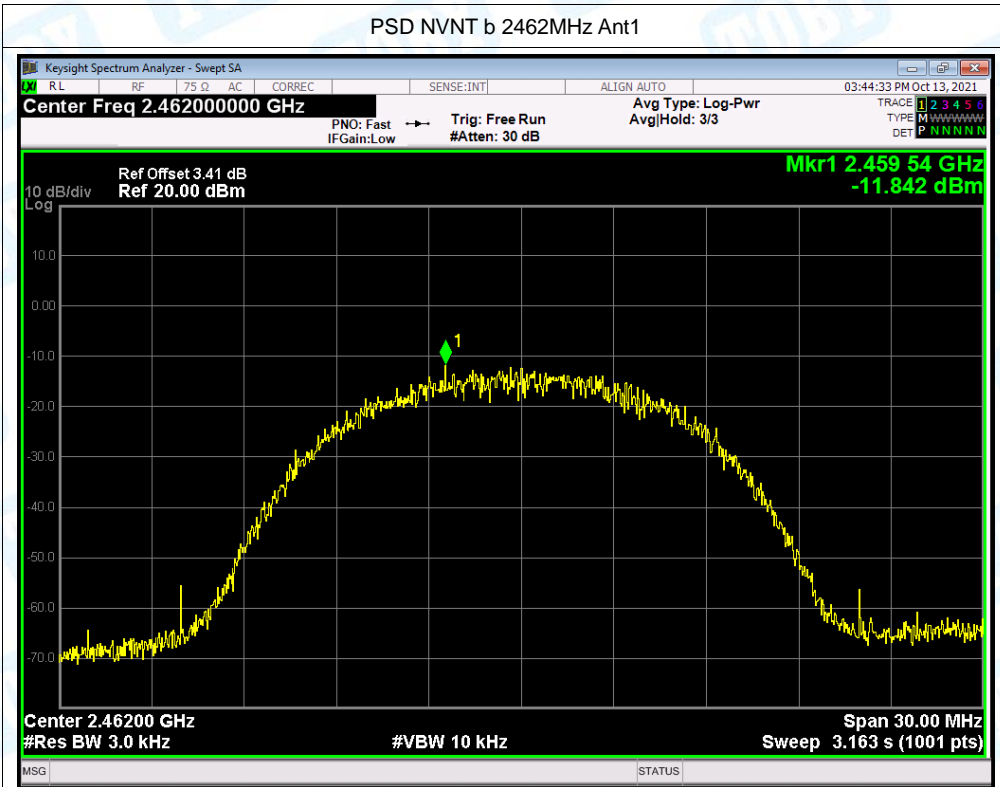
## Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-11.91	8	Pass
NVNT	b	2437	Ant1	-11.898	8	Pass
NVNT	b	2462	Ant1	-11.842	8	Pass
NVNT	g	2412	Ant1	-12.552	8	Pass
NVNT	g	2437	Ant1	-13.754	8	Pass
NVNT	g	2462	Ant1	-12.804	8	Pass
NVNT	n(HT20)	2412	Ant1	-13.535	8	Pass
NVNT	n(HT20)	2437	Ant1	-13.086	8	Pass
NVNT	n(HT20)	2462	Ant1	-13.968	8	Pass
NVNT	n(HT40)	2422	Ant1	-19.63	8	Pass
NVNT	n(HT40)	2437	Ant1	-17.638	8	Pass
NVNT	n(HT40)	2452	Ant1	-19.435	8	Pass

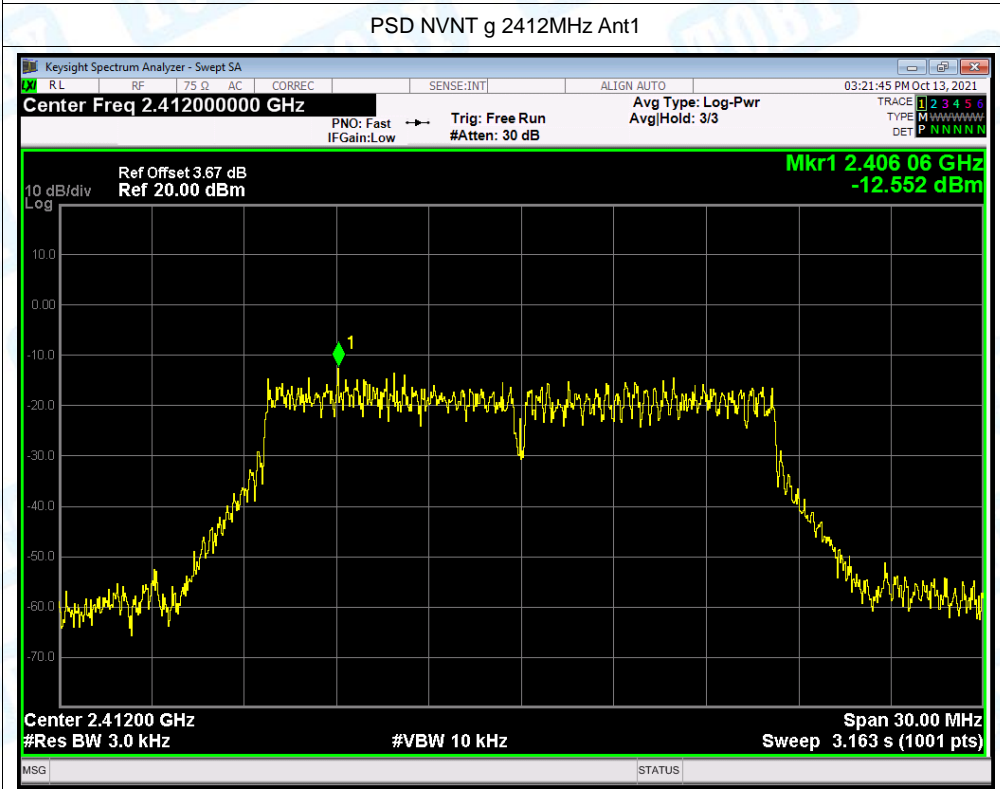


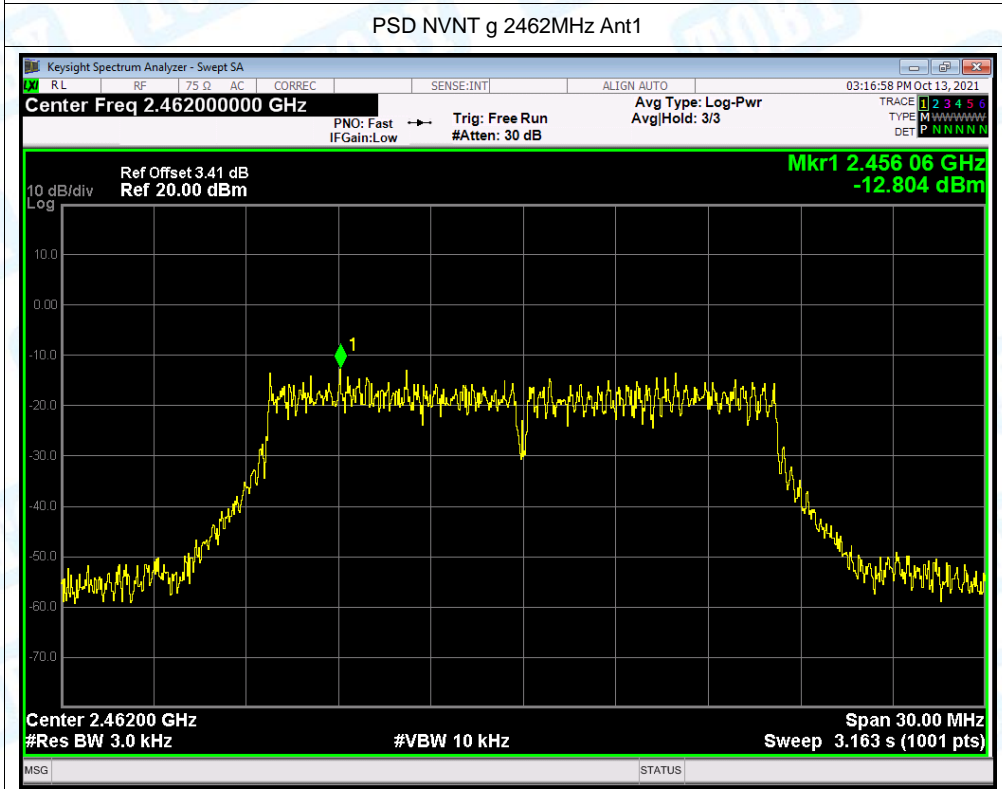
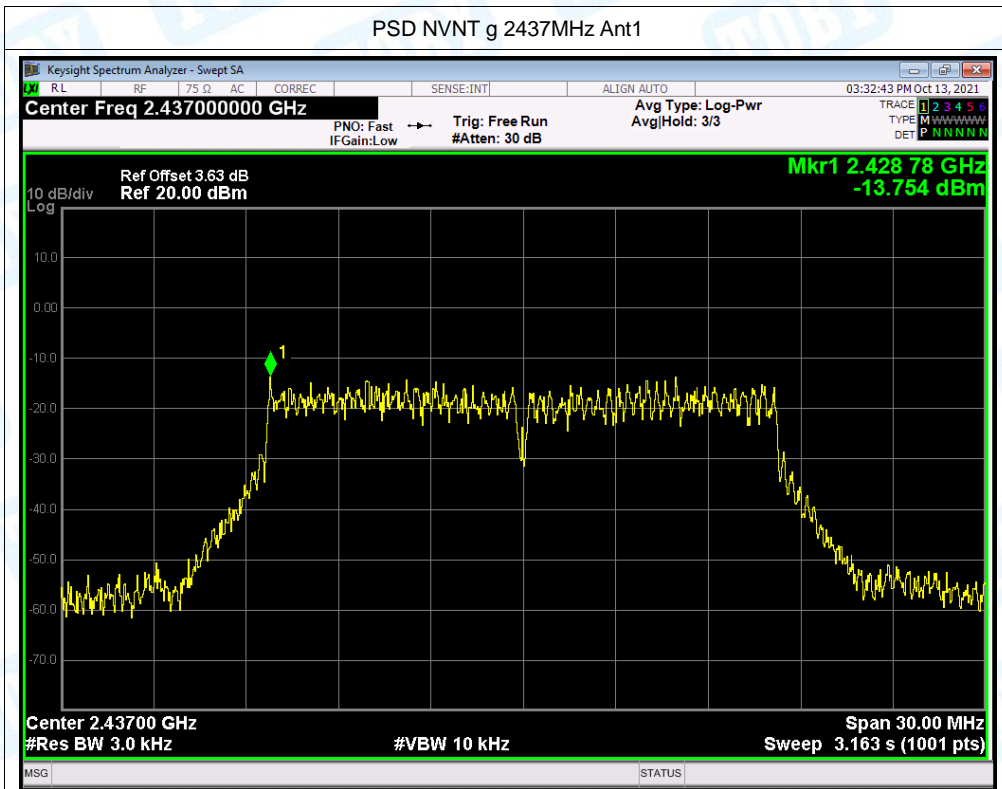


PSD NVNT b 2462MHz Ant1

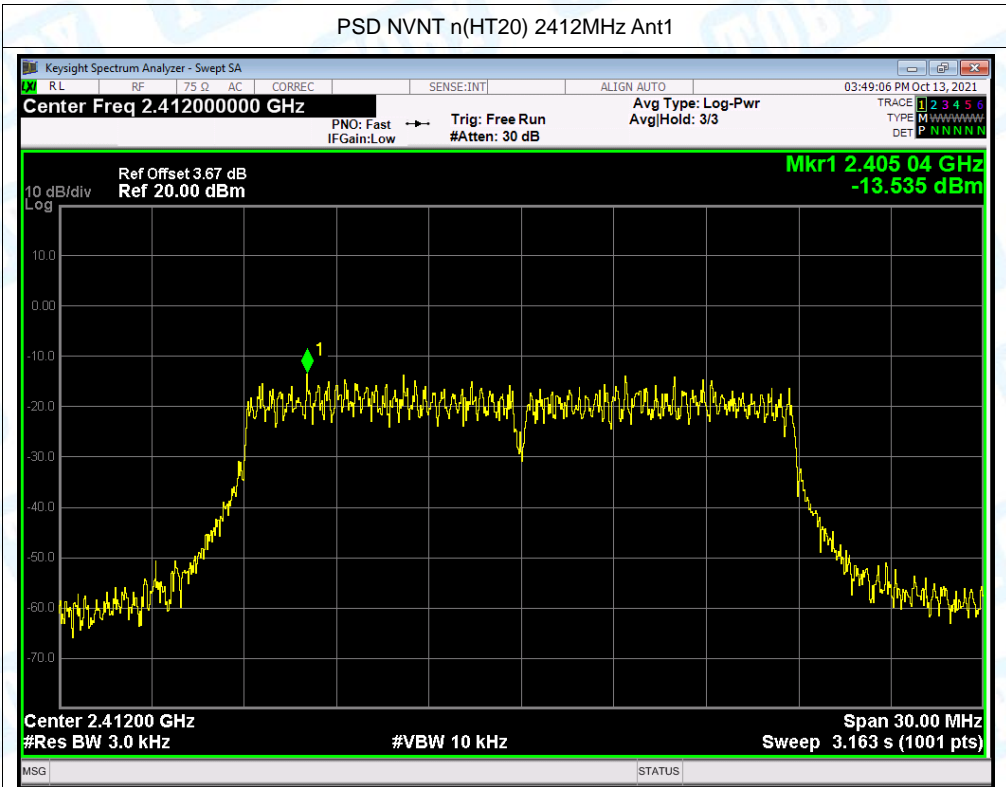


PSD NVNT g 2412MHz Ant1

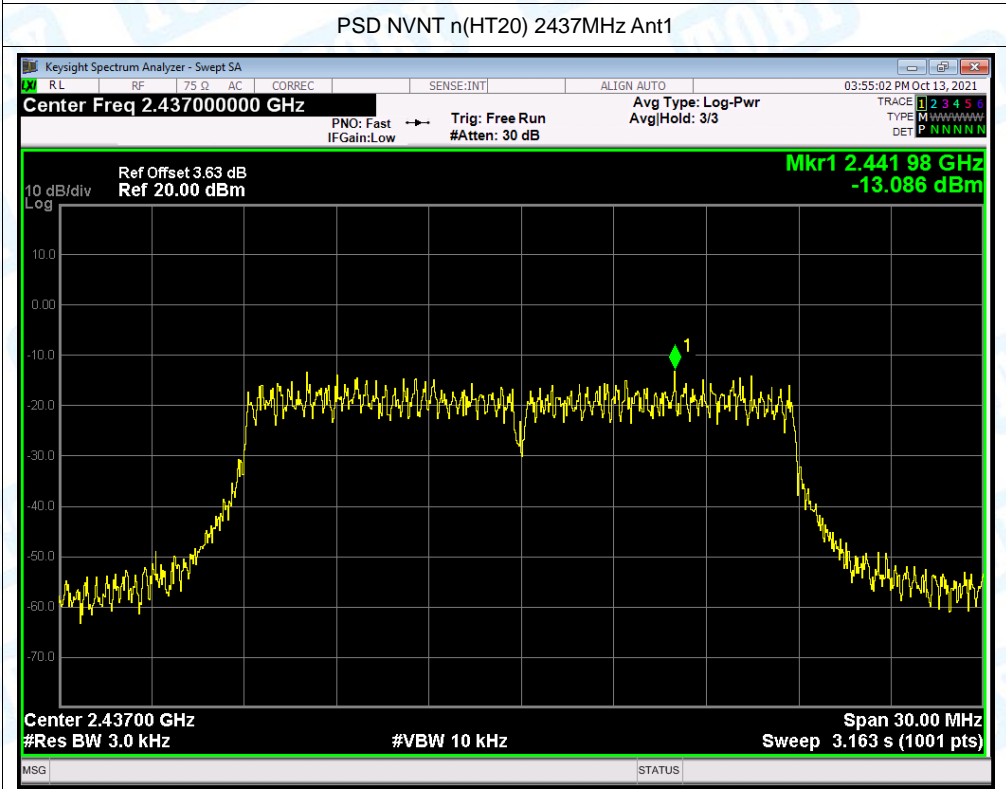


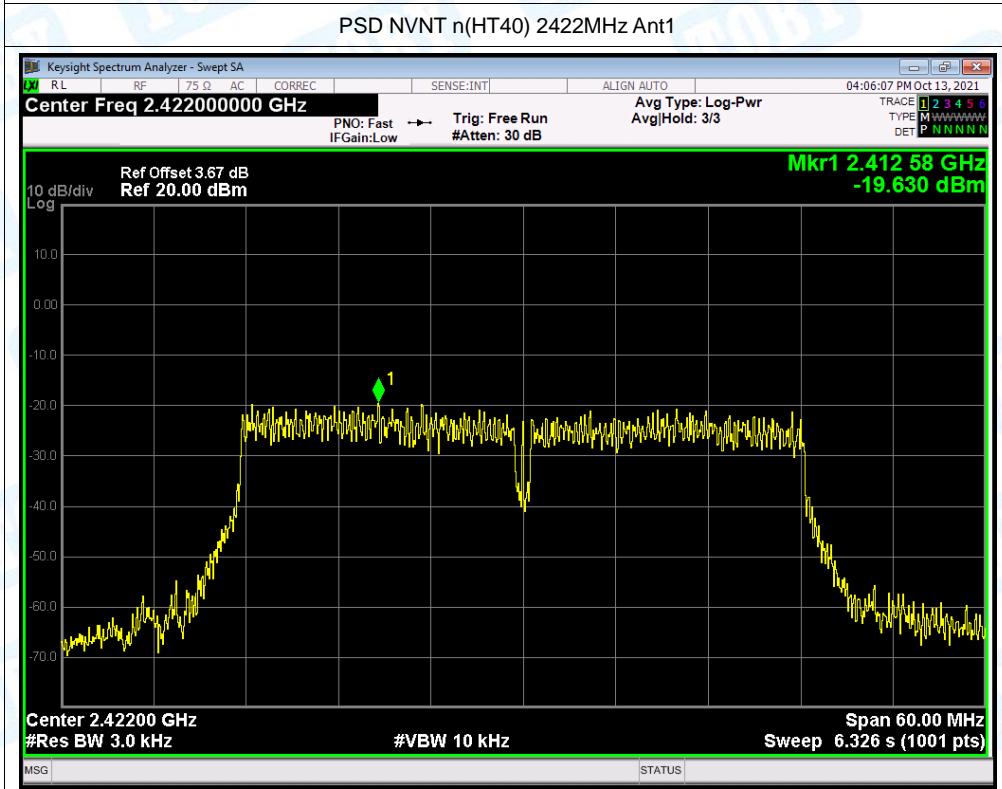
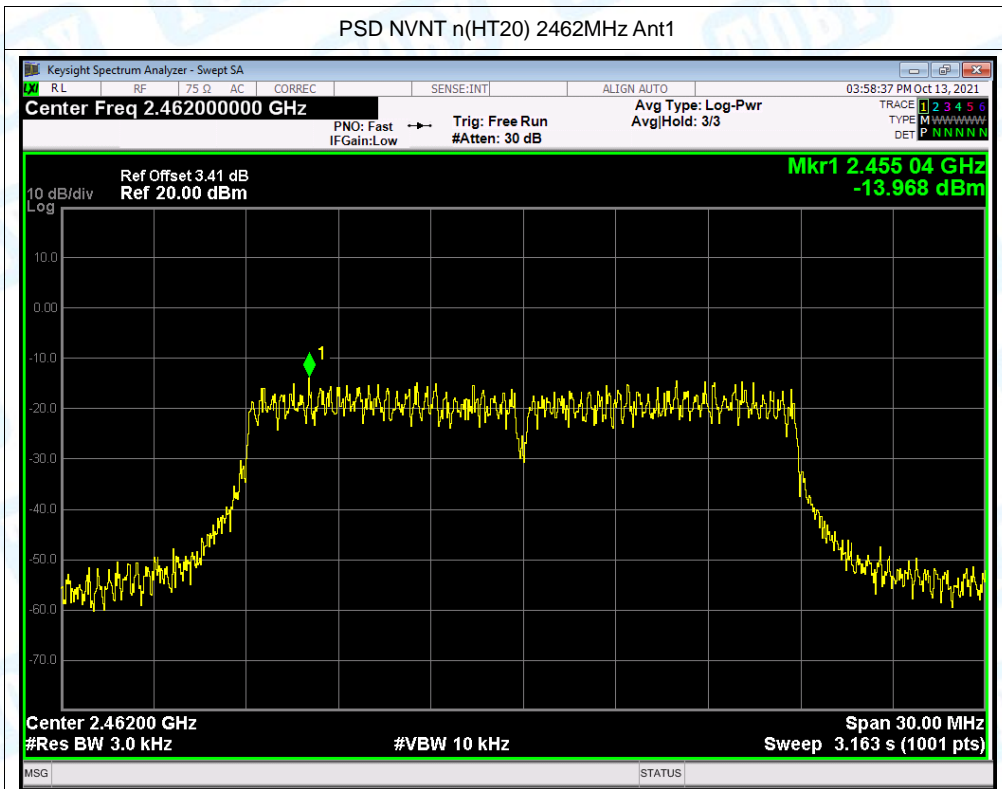


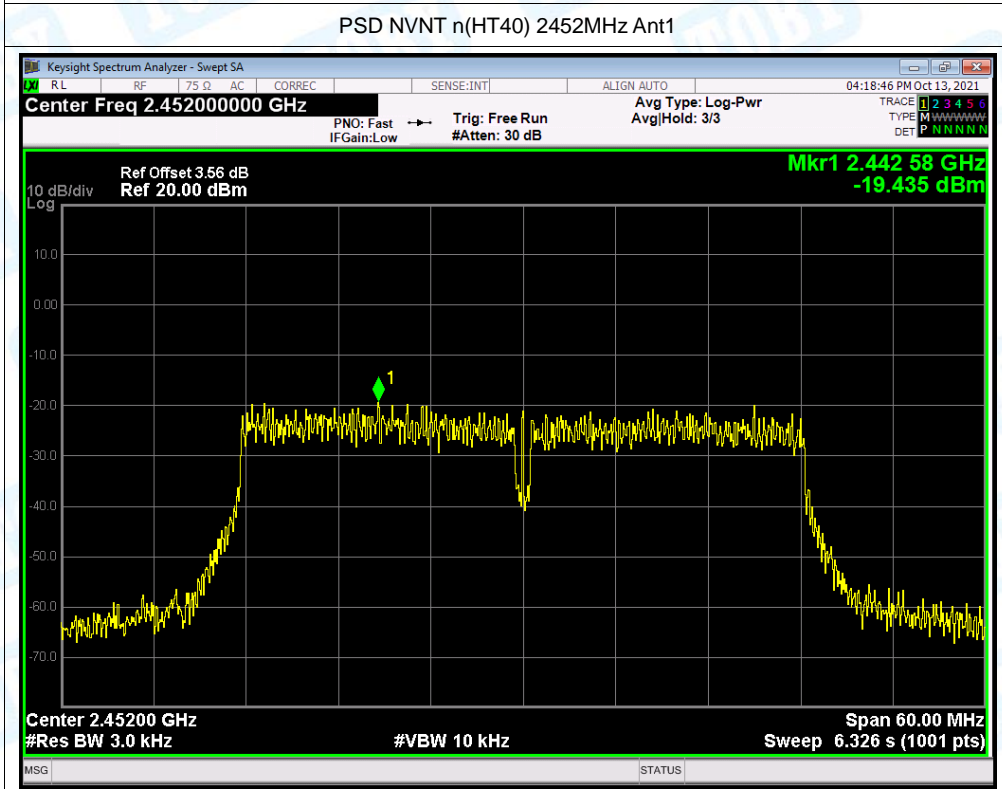
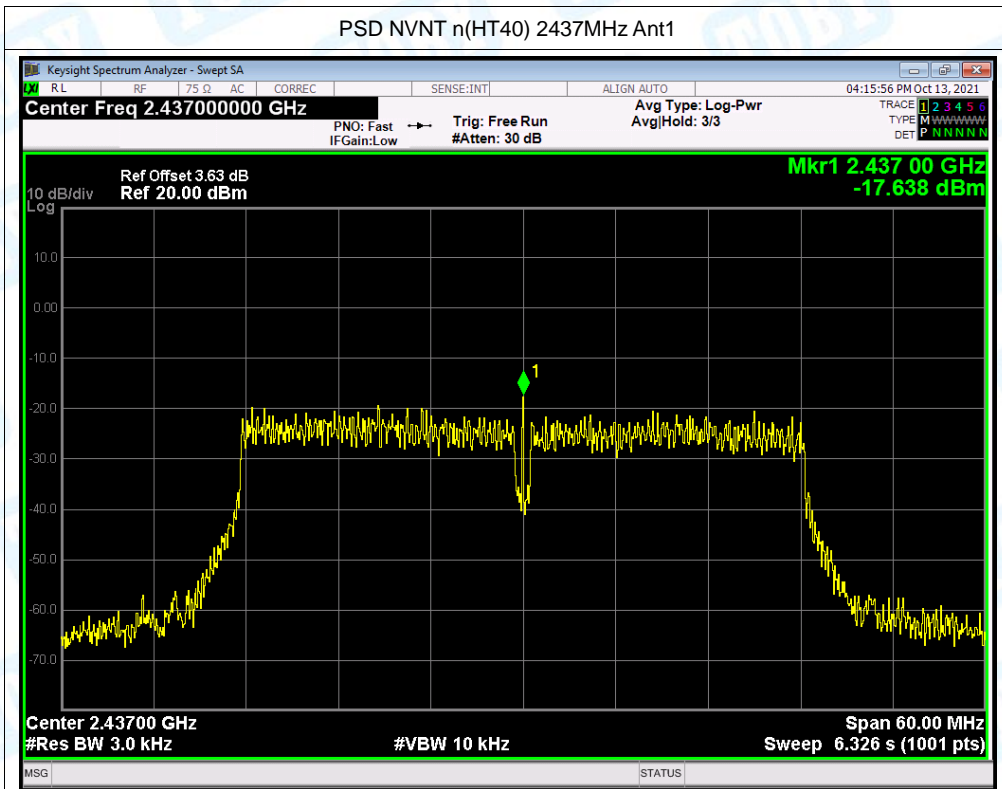
PSD NVNT n(HT20) 2412MHz Ant1



PSD NVNT n(HT20) 2437MHz Ant1

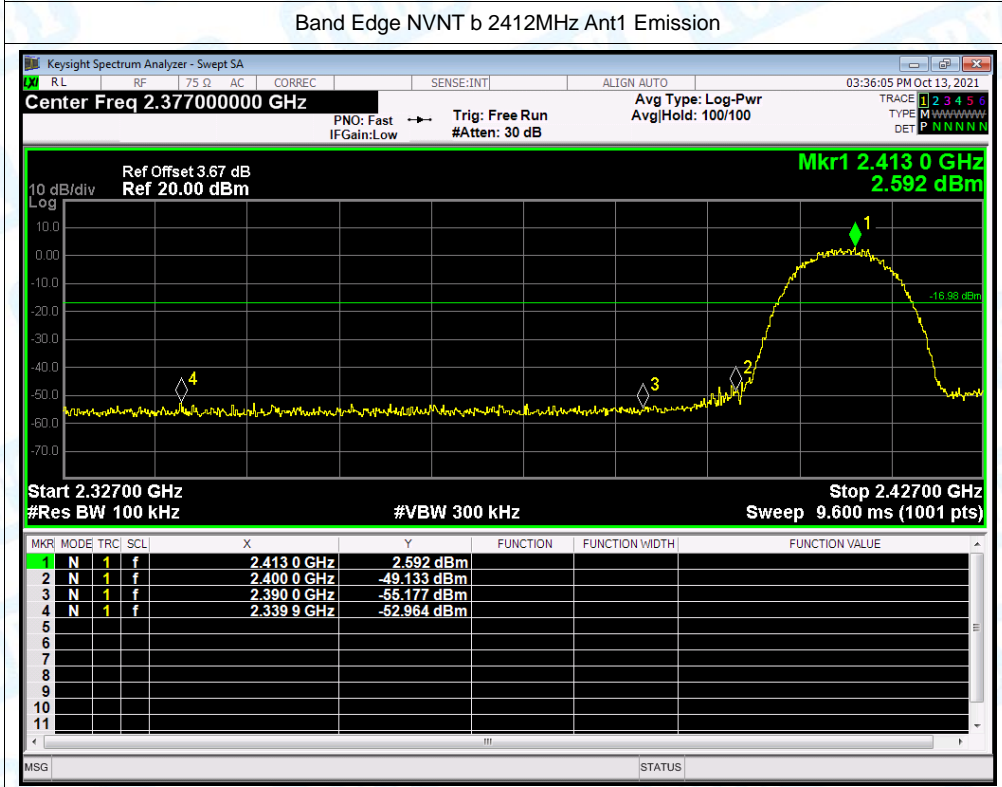
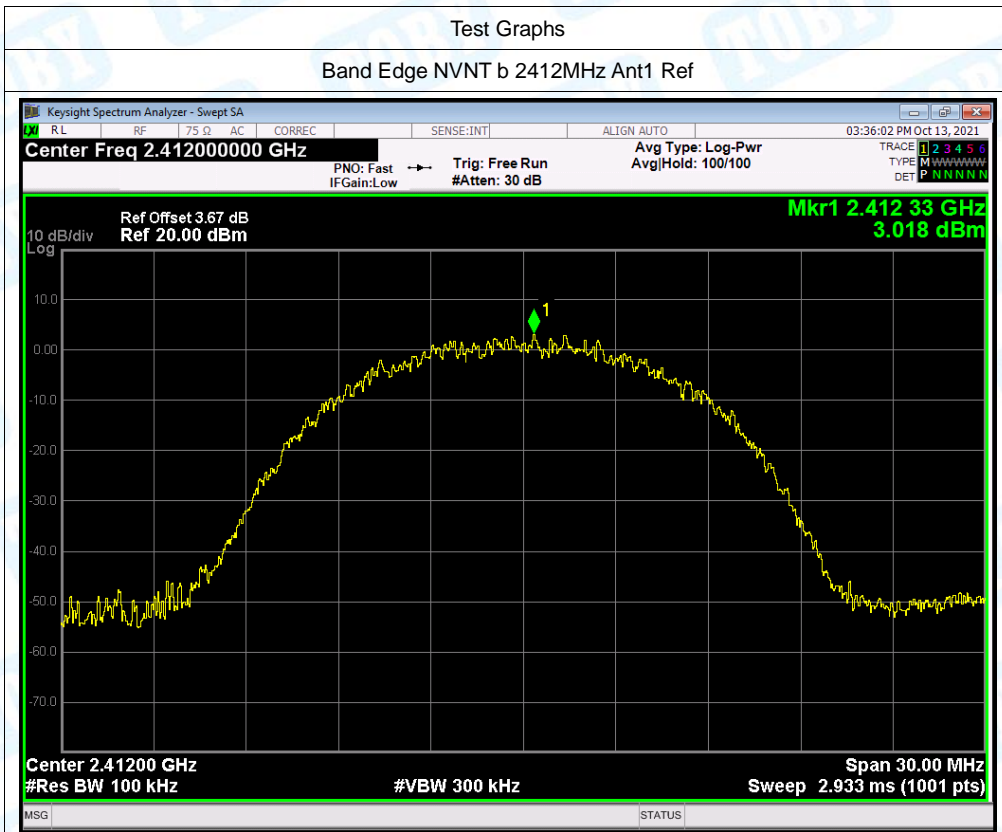


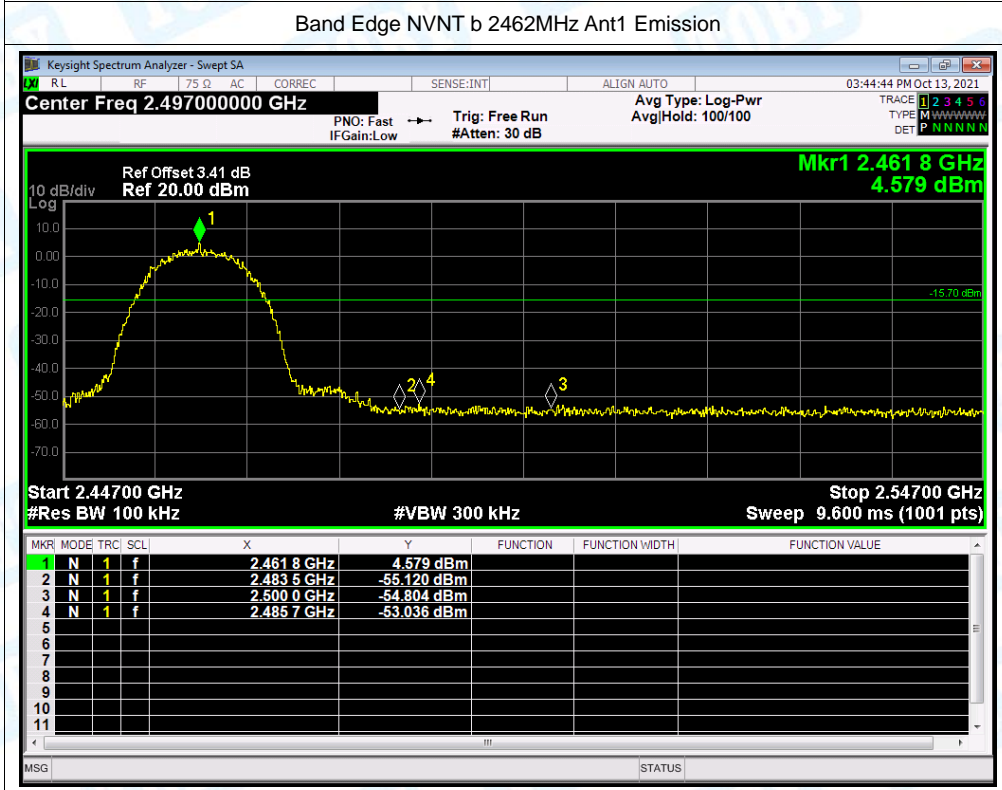
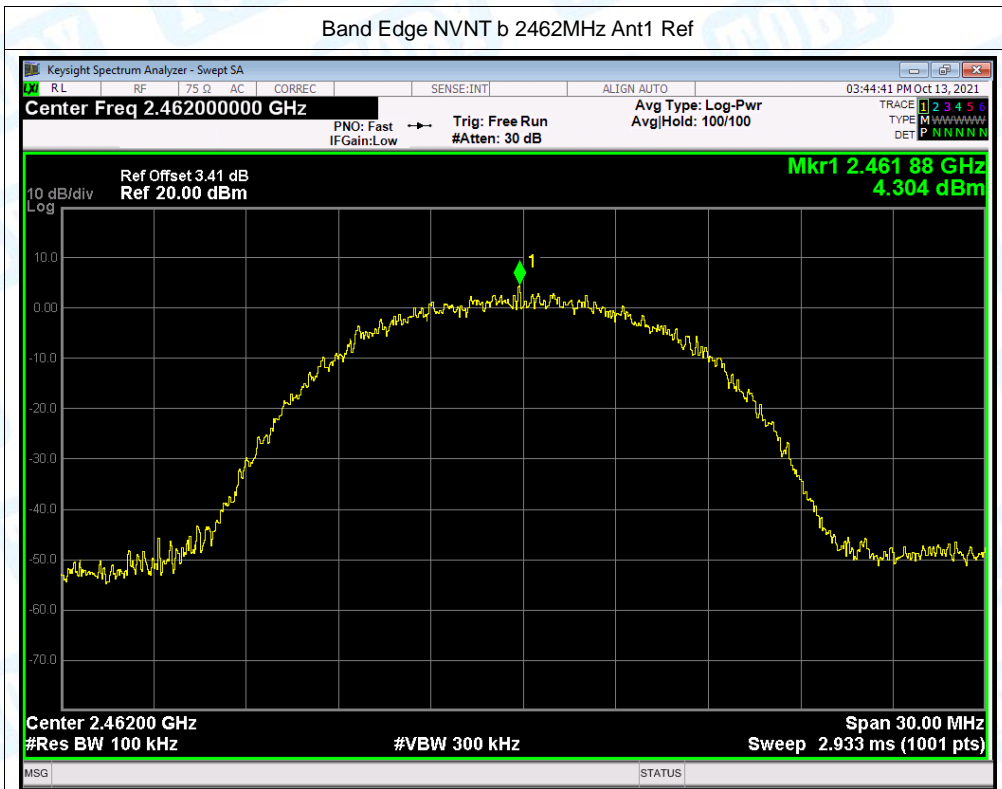




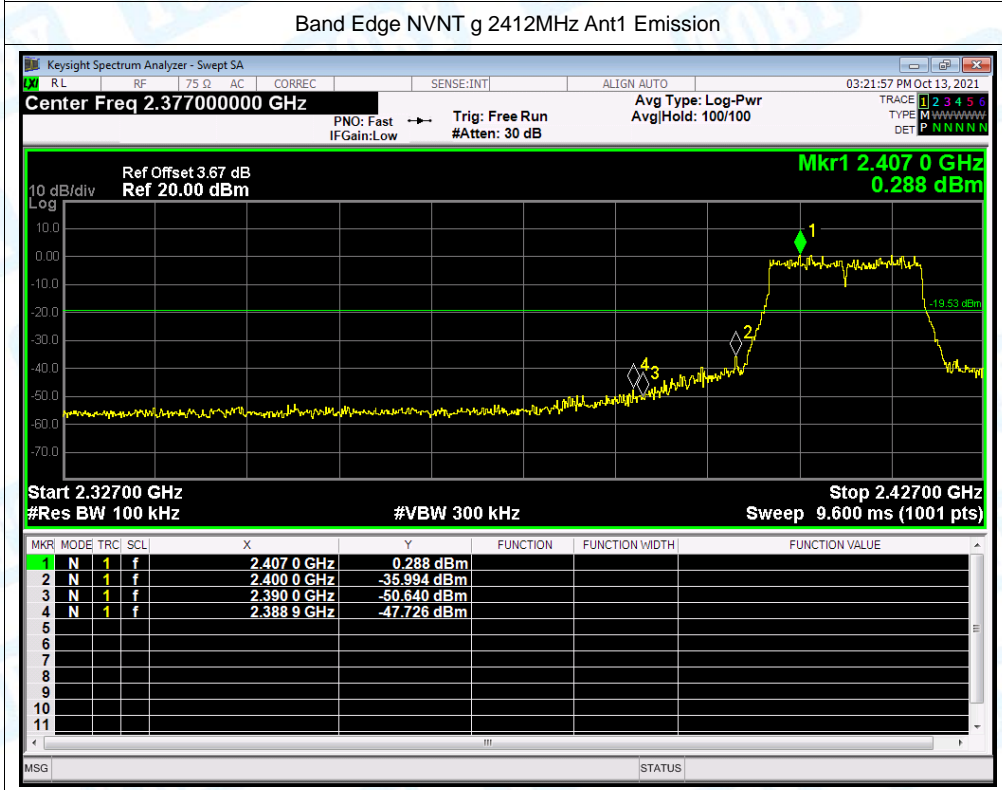
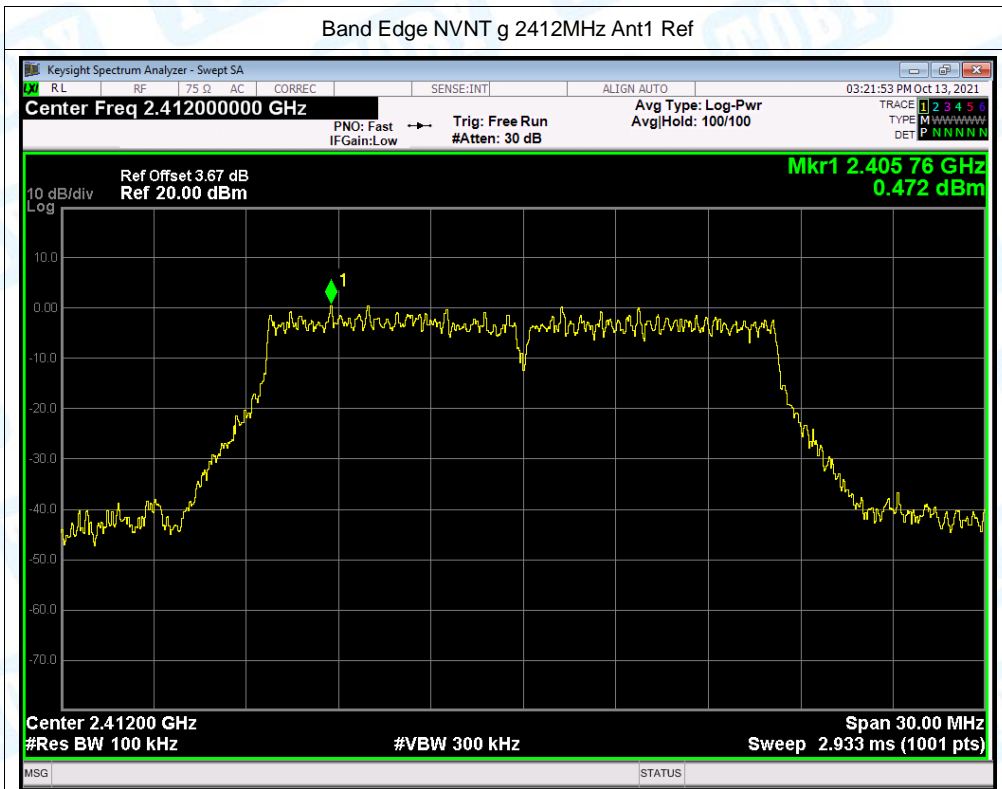
### Band Edge

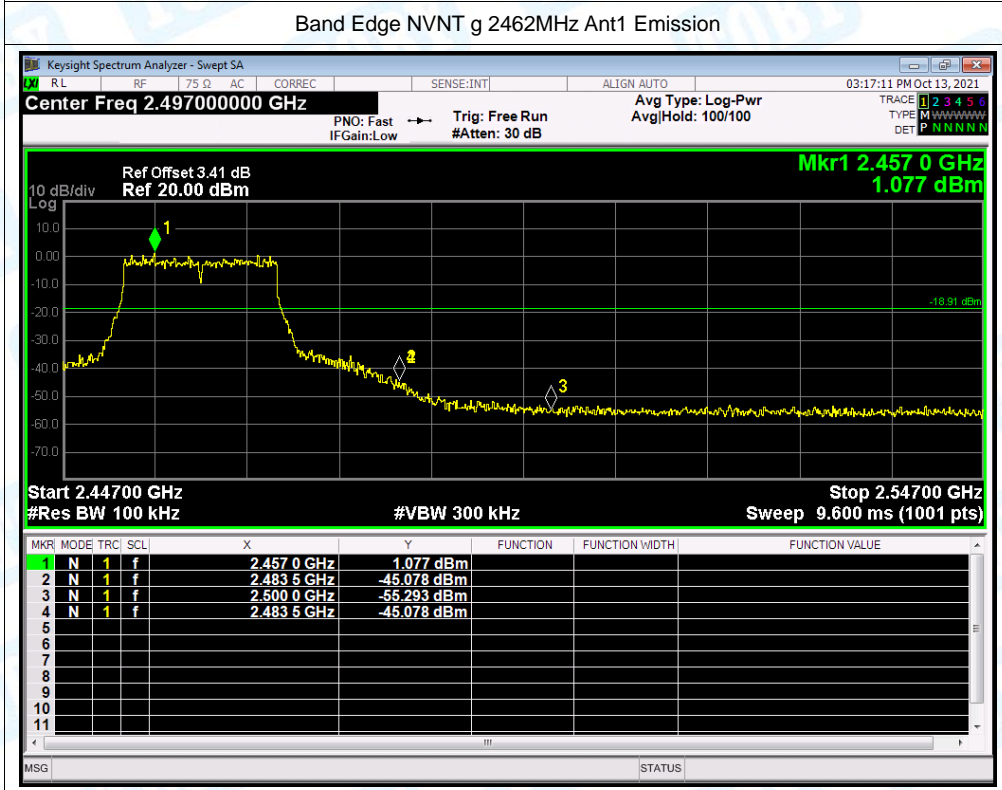
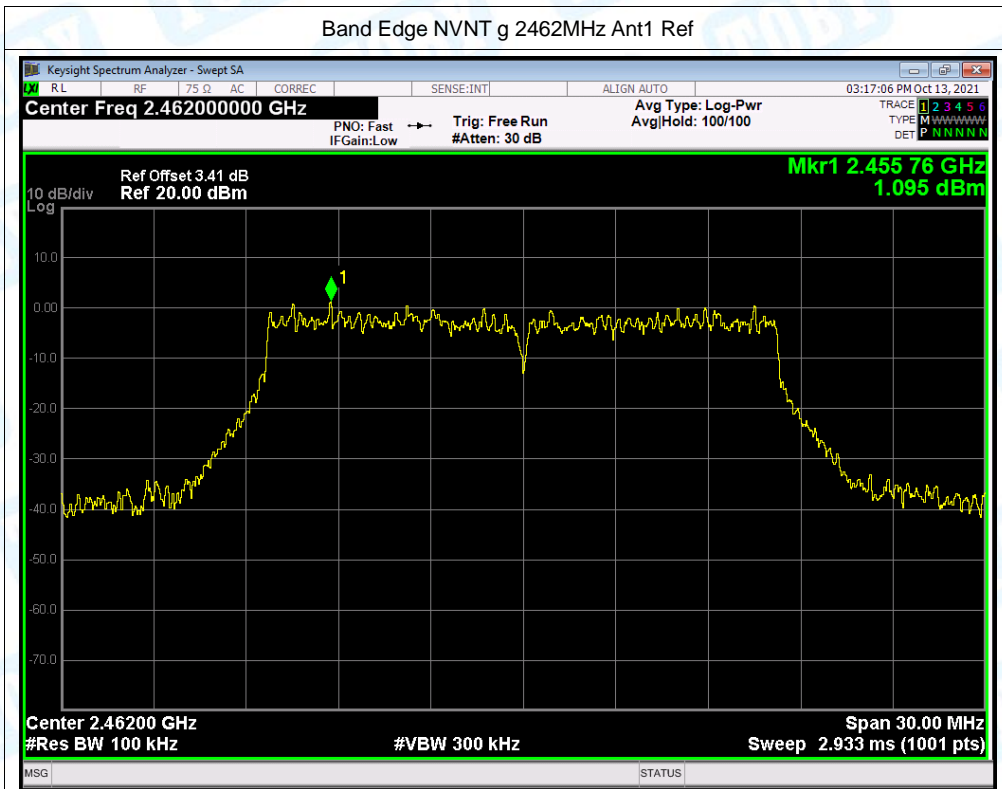
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-55.98	-20	Pass
NVNT	b	2462	Ant1	-57.33	-20	Pass
NVNT	g	2412	Ant1	-48.19	-20	Pass
NVNT	g	2462	Ant1	-46.17	-20	Pass
NVNT	n(HT20)	2412	Ant1	-48.48	-20	Pass
NVNT	n(HT20)	2462	Ant1	-42.86	-20	Pass
NVNT	n(HT40)	2422	Ant1	-42.01	-20	Pass
NVNT	n(HT40)	2452	Ant1	-39.03	-20	Pass

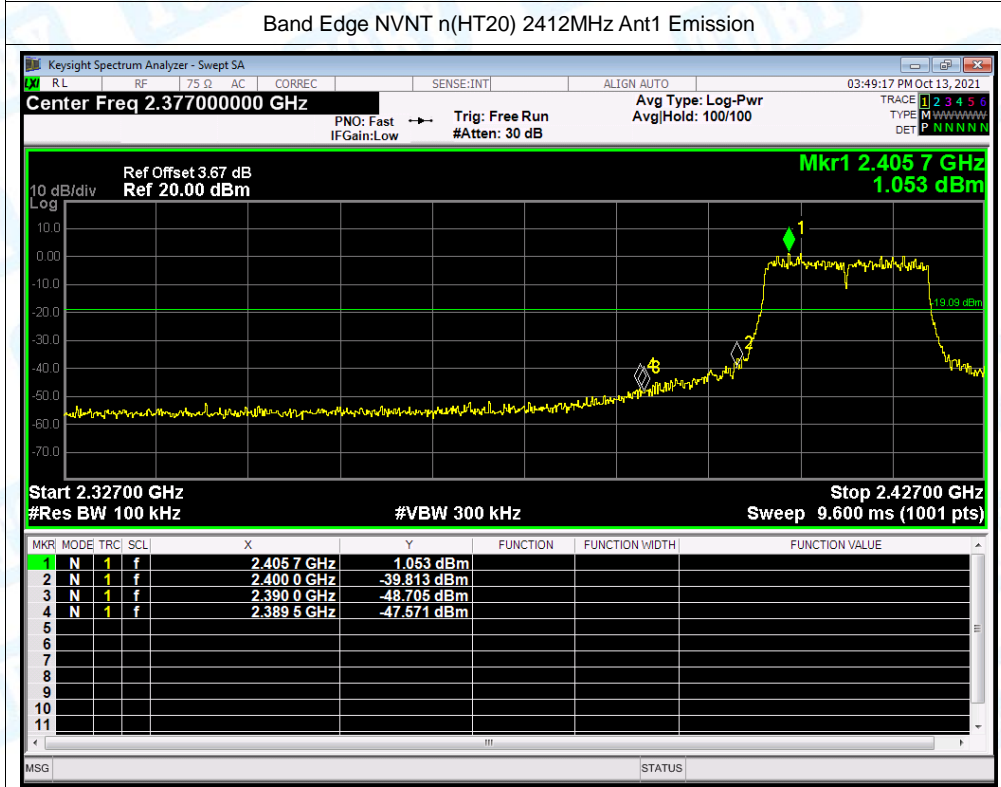
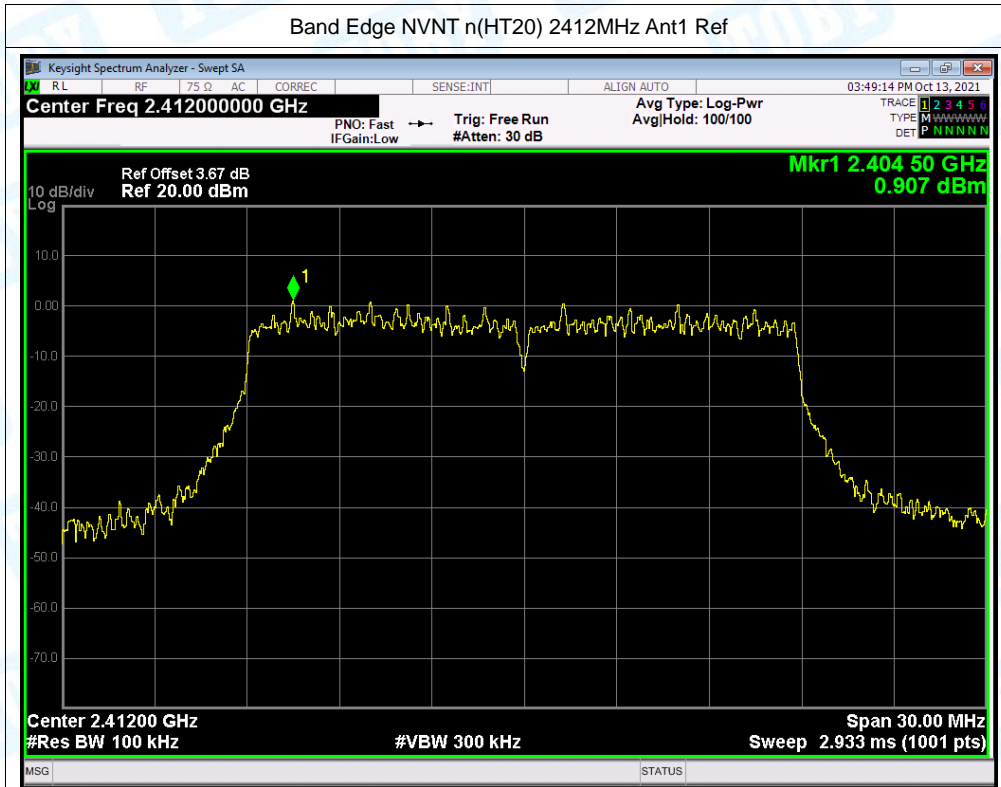


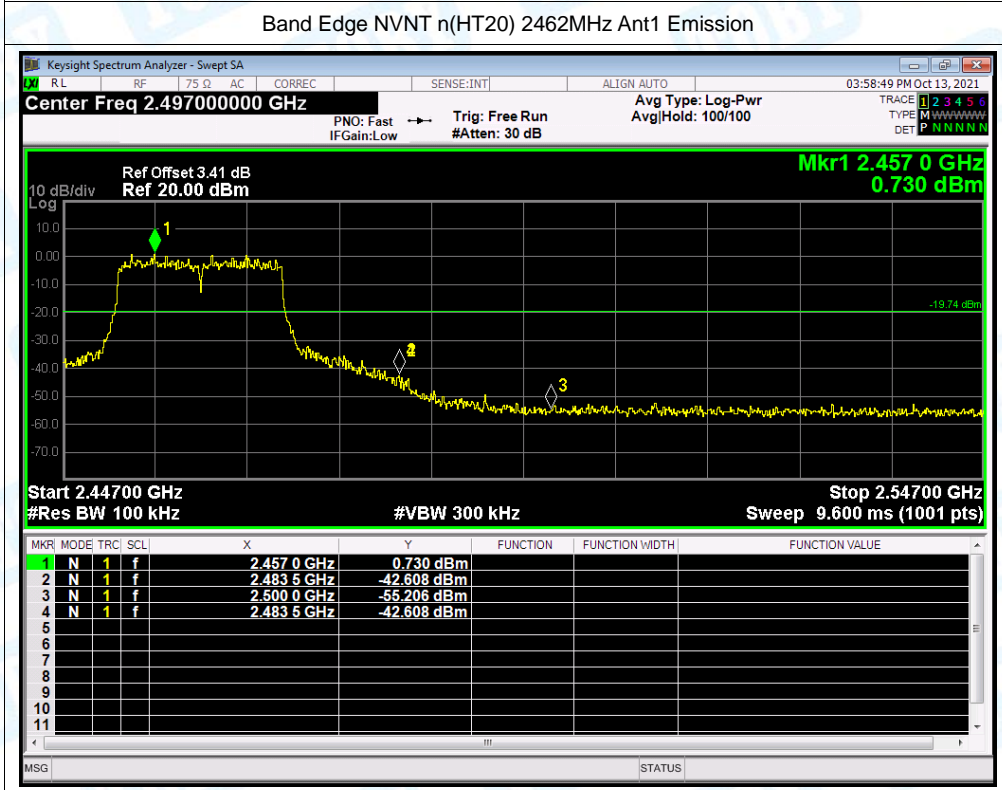
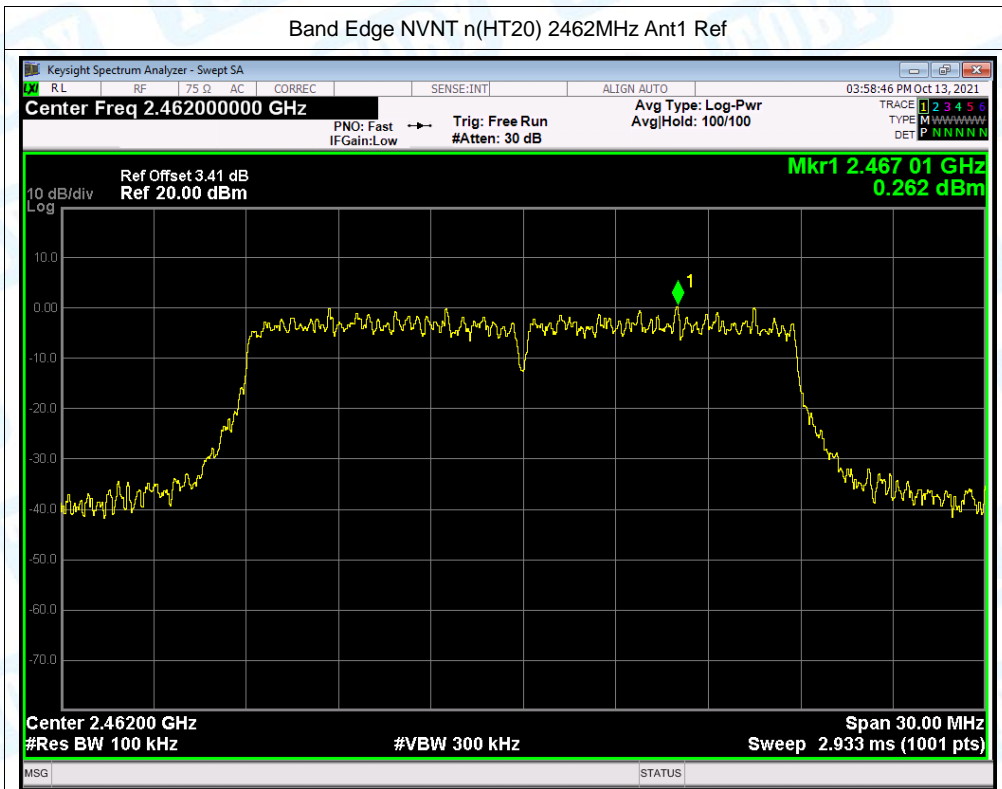


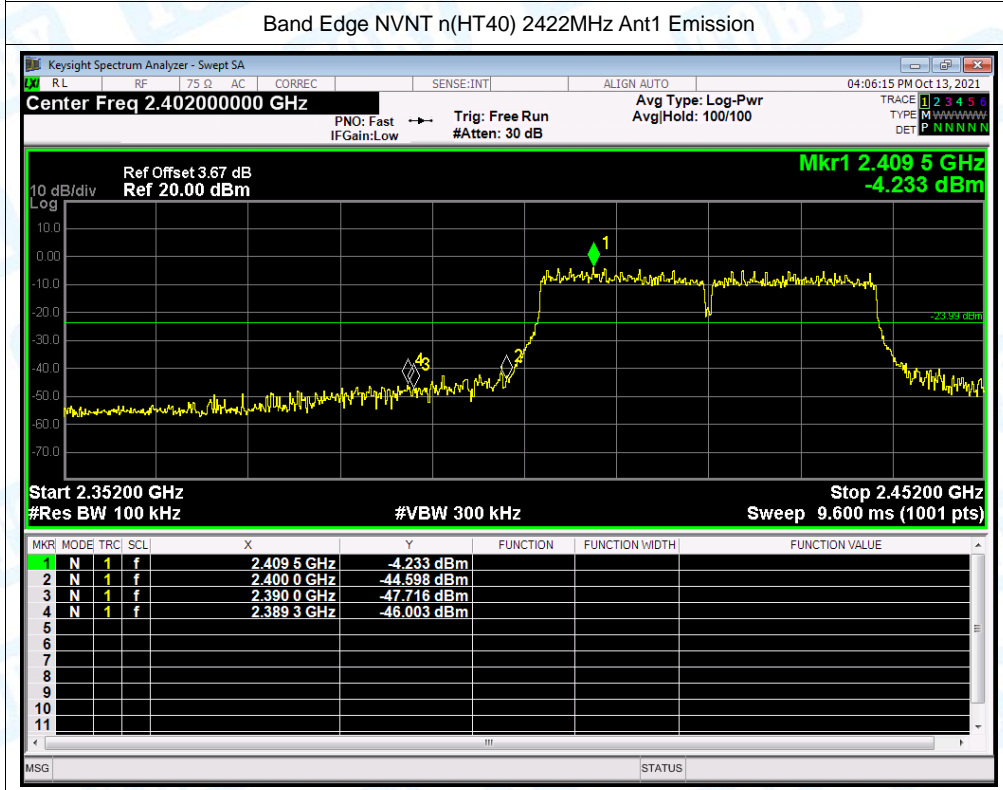
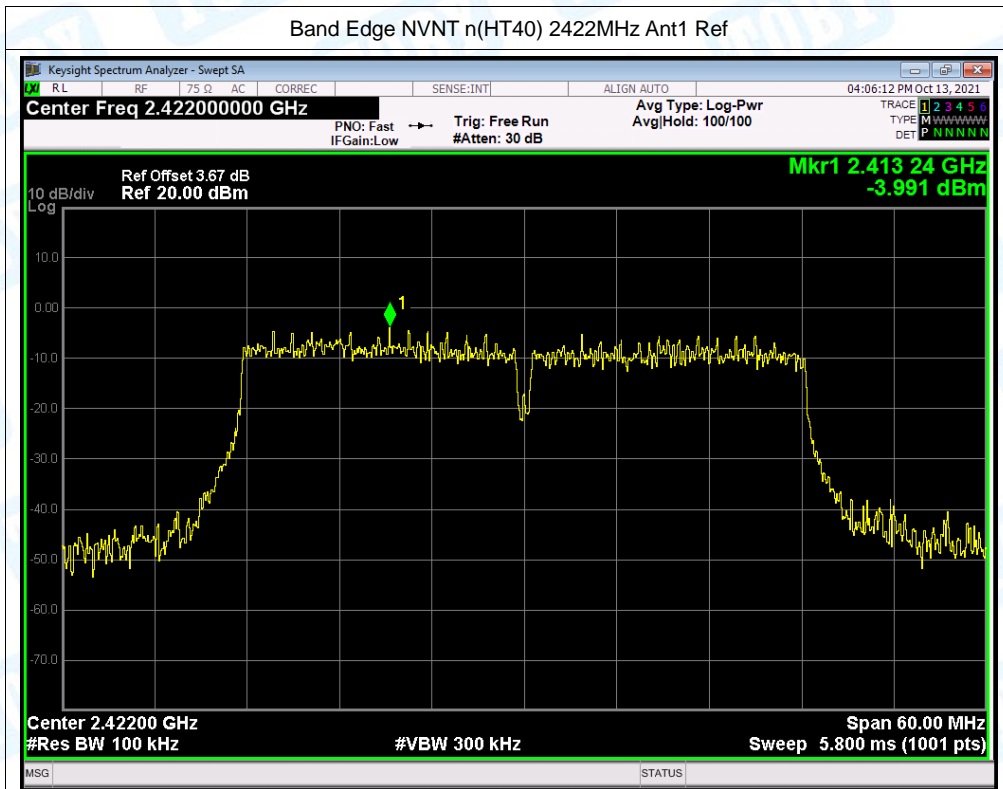


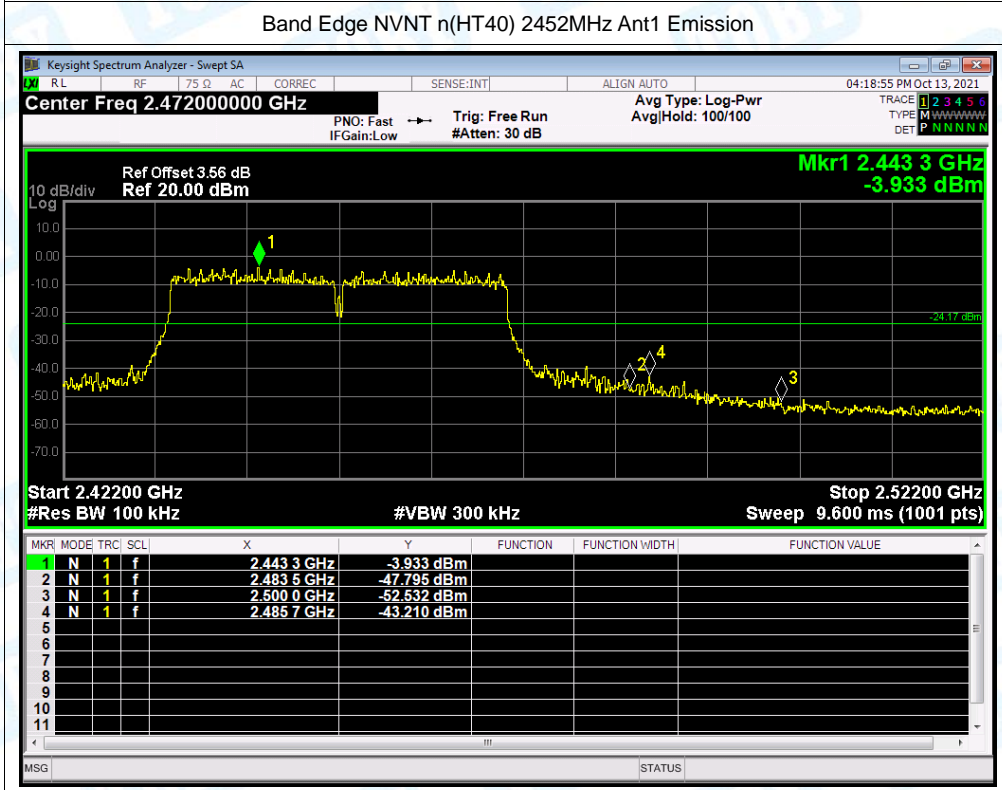
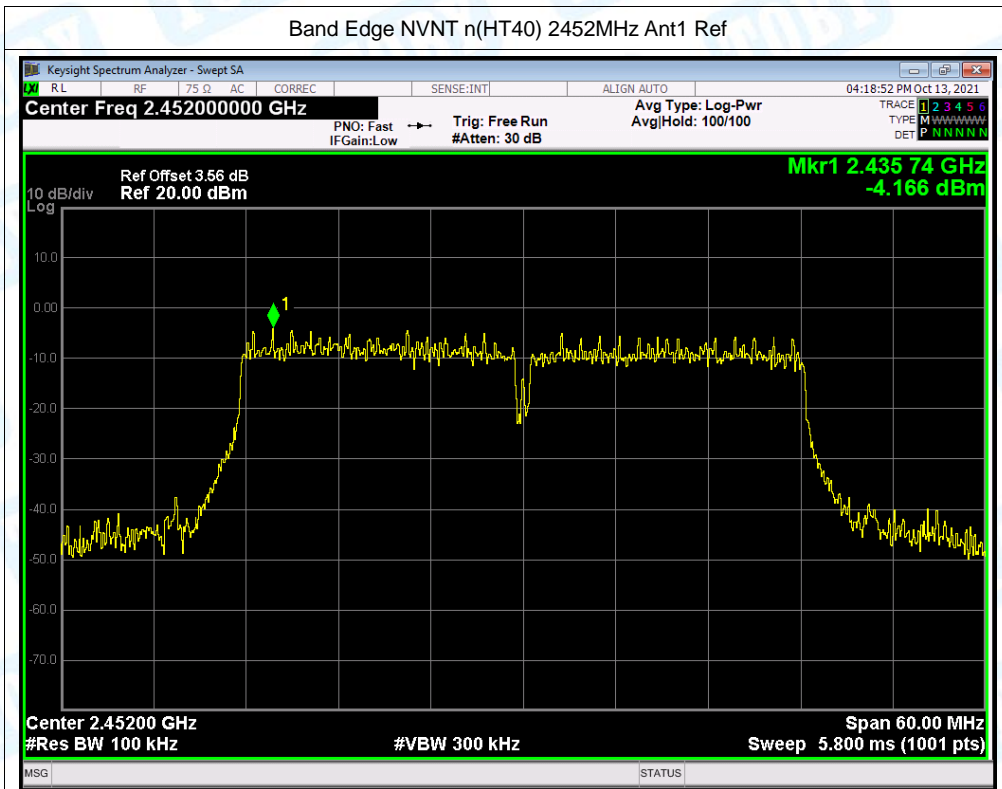






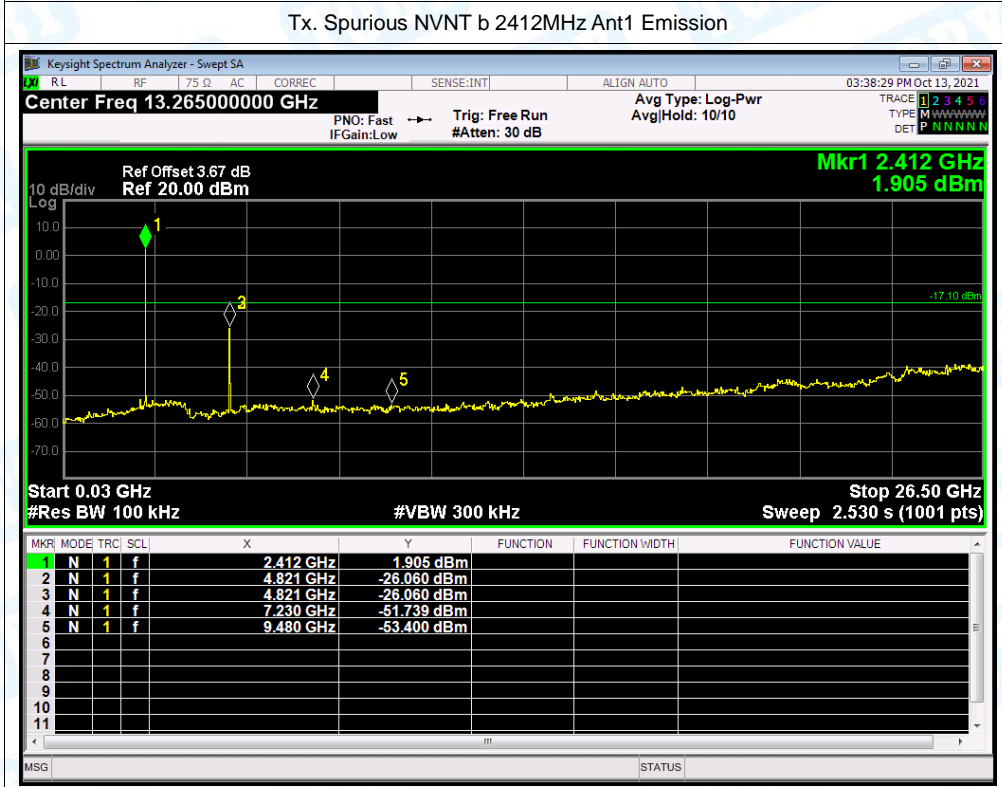
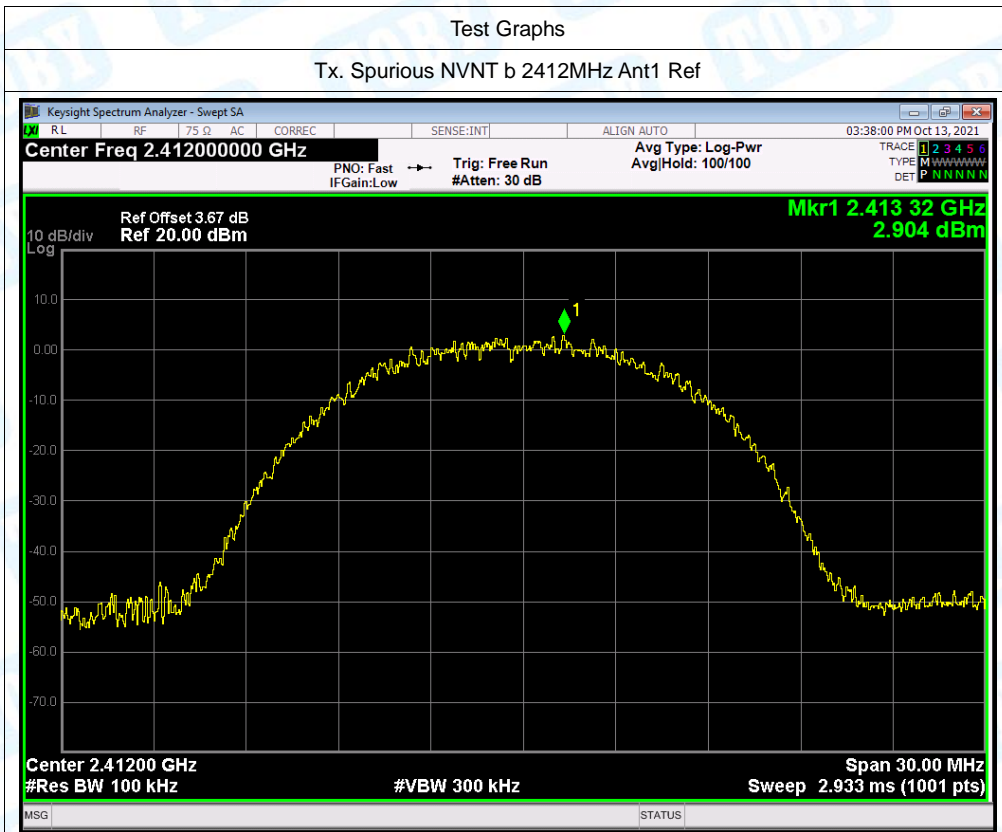






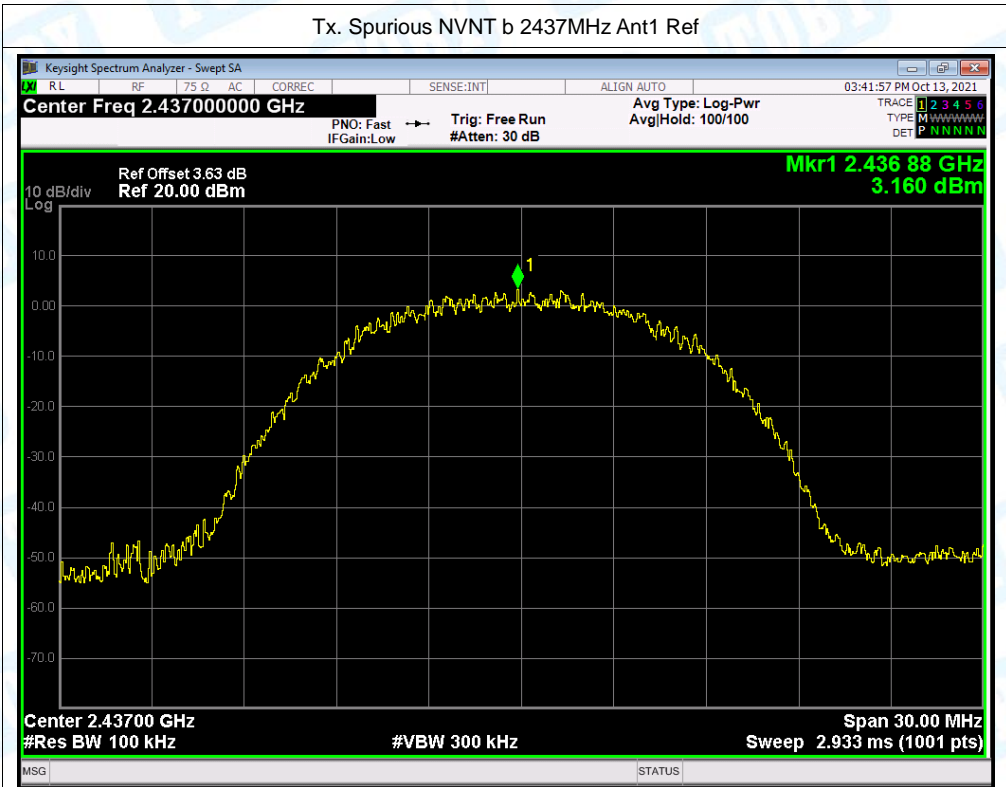
## Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-28.95	-20	Pass
NVNT	b	2437	Ant1	-26.9	-20	Pass
NVNT	b	2462	Ant1	-35.84	-20	Pass
NVNT	g	2412	Ant1	-37.27	-20	Pass
NVNT	g	2437	Ant1	-34.77	-20	Pass
NVNT	g	2462	Ant1	-32.44	-20	Pass
NVNT	n(HT20)	2412	Ant1	-38.04	-20	Pass
NVNT	n(HT20)	2437	Ant1	-35.5	-20	Pass
NVNT	n(HT20)	2462	Ant1	-35.1	-20	Pass
NVNT	n(HT40)	2422	Ant1	-35.62	-20	Pass
NVNT	n(HT40)	2437	Ant1	-33.55	-20	Pass
NVNT	n(HT40)	2452	Ant1	-34.29	-20	Pass

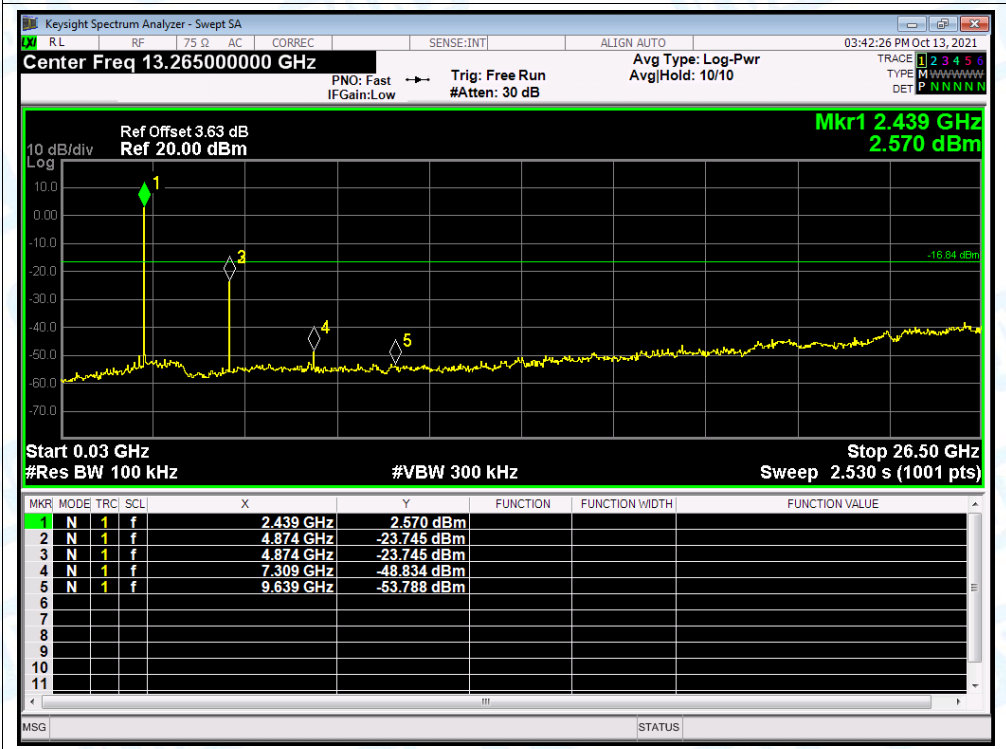




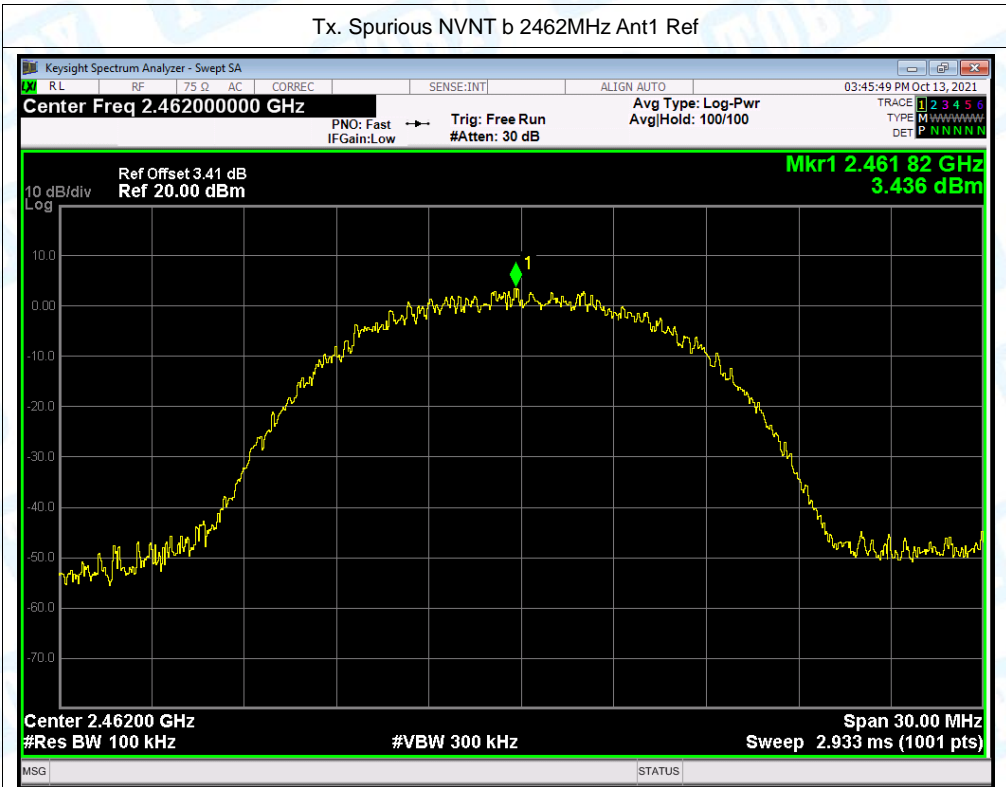
Tx. Spurious NVNT b 2437MHz Ant1 Ref



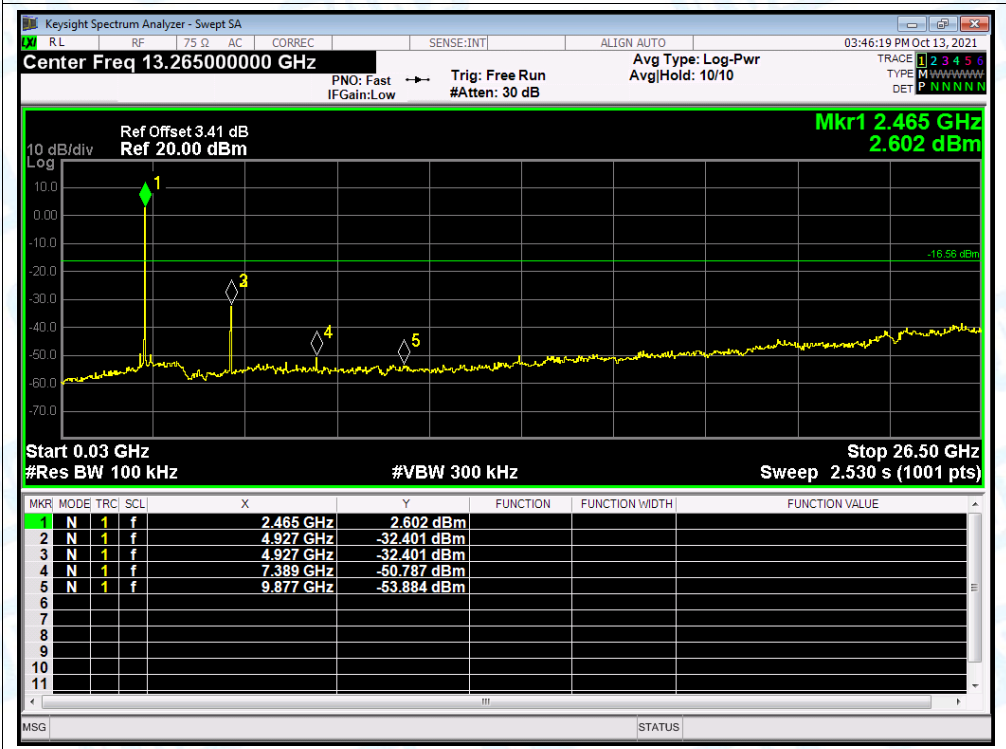
Tx. Spurious NVNT b 2437MHz Ant1 Emission



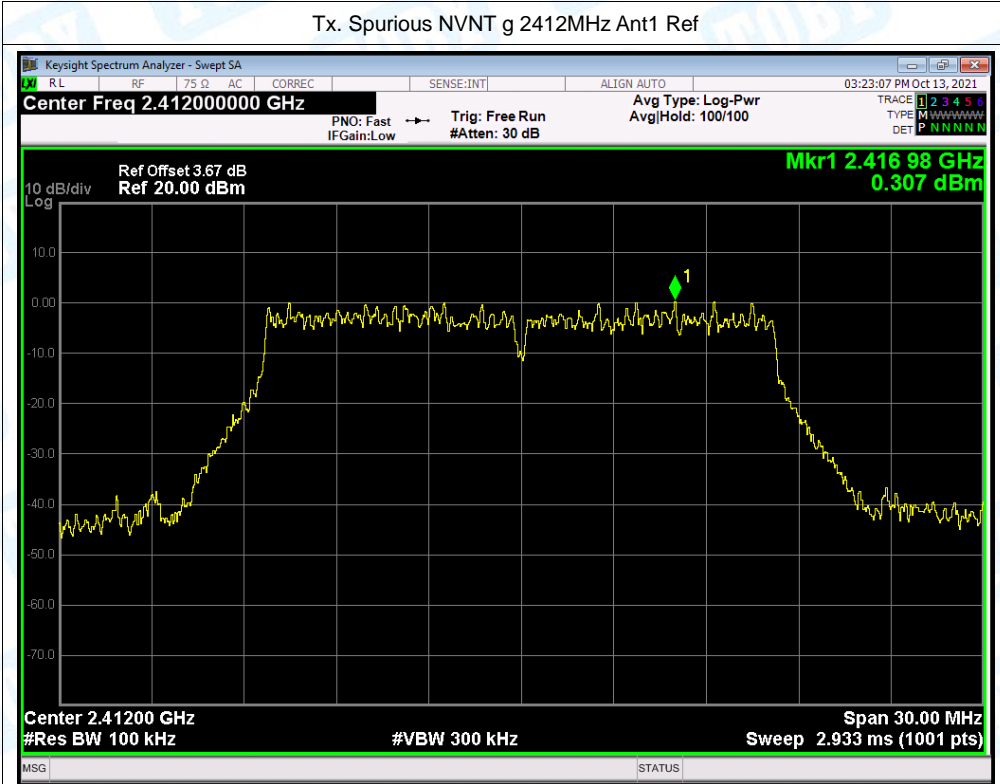
Tx. Spurious NVNT b 2462MHz Ant1 Ref



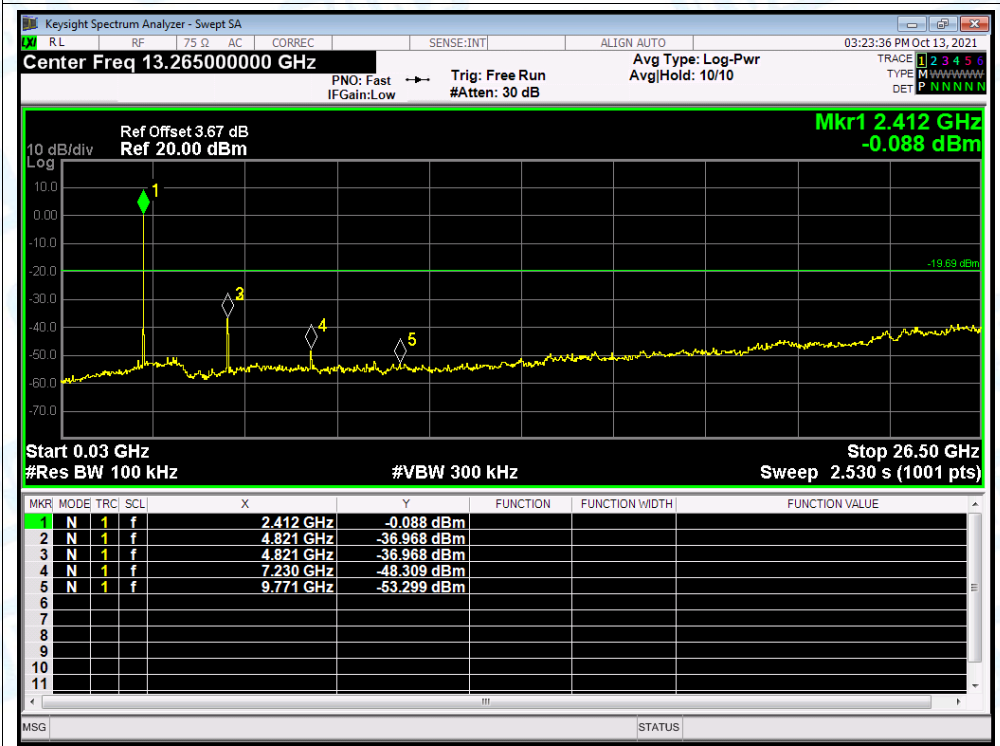
Tx. Spurious NVNT b 2462MHz Ant1 Emission



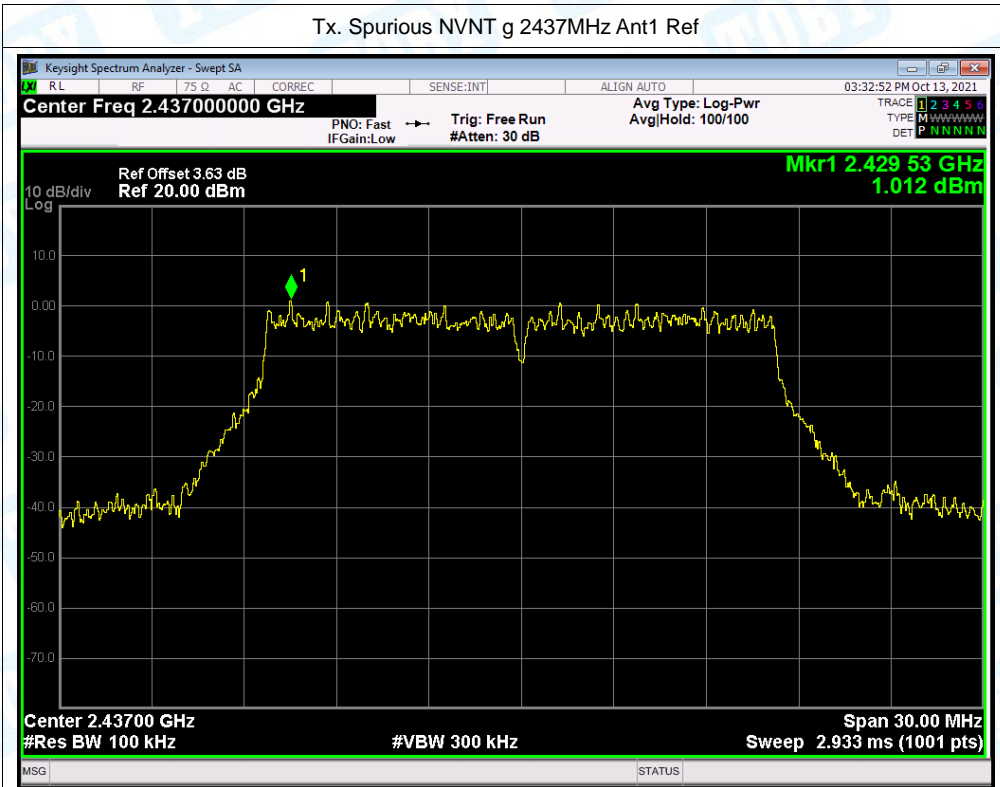
Tx. Spurious NVNT g 2412MHz Ant1 Ref



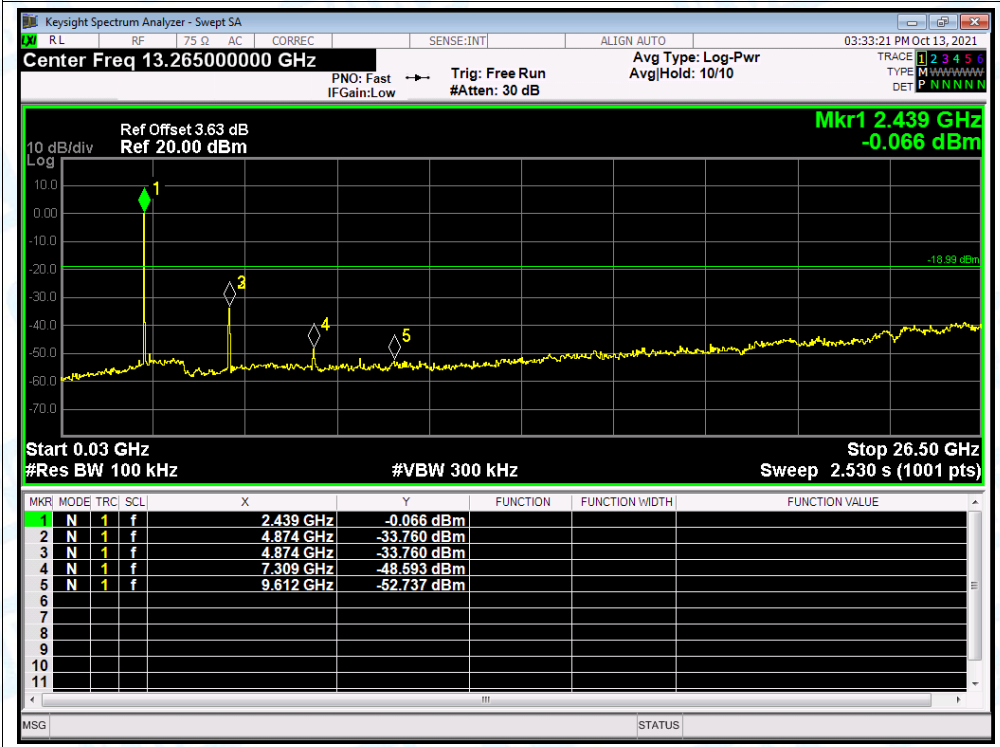
Tx. Spurious NVNT g 2412MHz Ant1 Emission



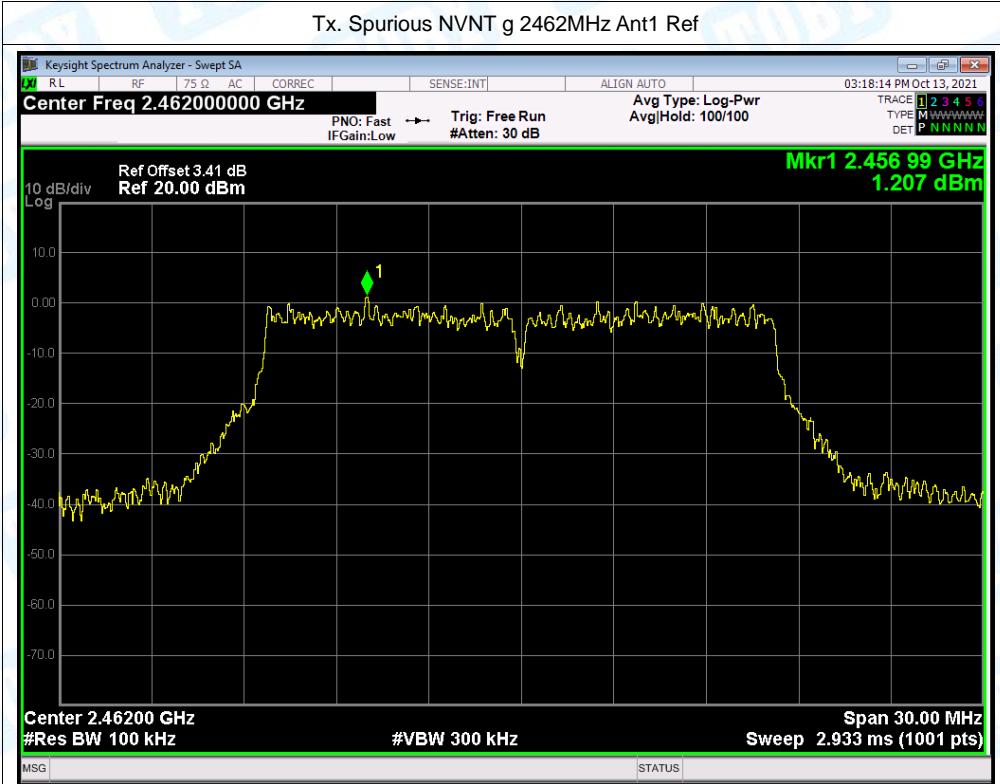
Tx. Spurious NVNT g 2437MHz Ant1 Ref



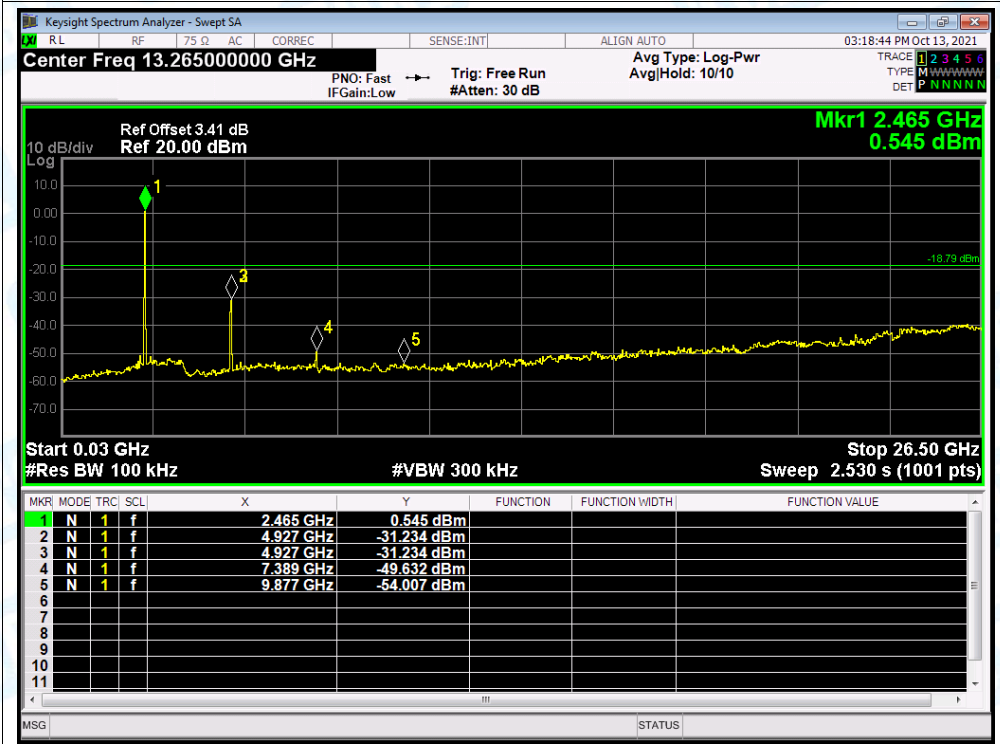
Tx. Spurious NVNT g 2437MHz Ant1 Emission



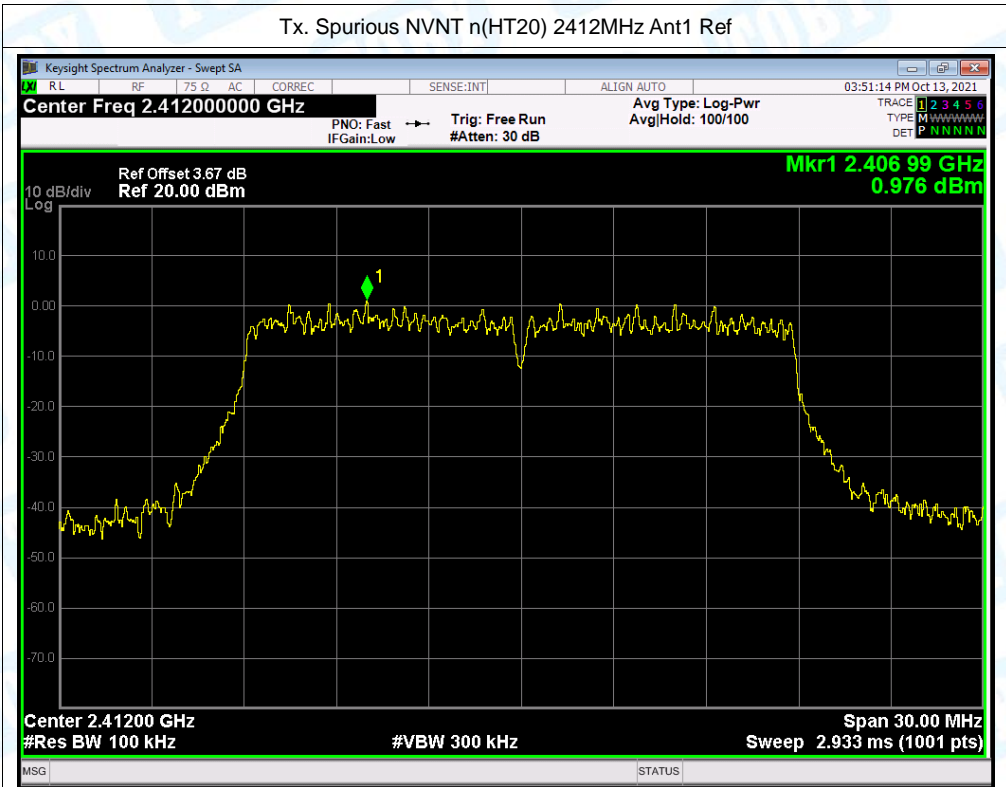
Tx. Spurious NVNT g 2462MHz Ant1 Ref



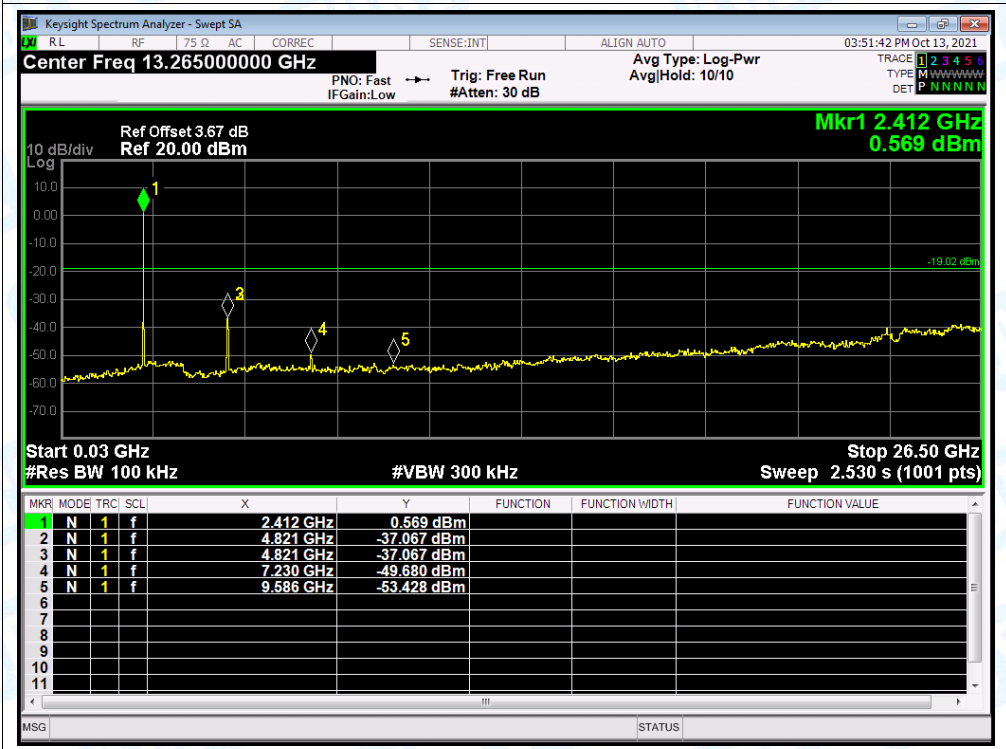
Tx. Spurious NVNT g 2462MHz Ant1 Emission



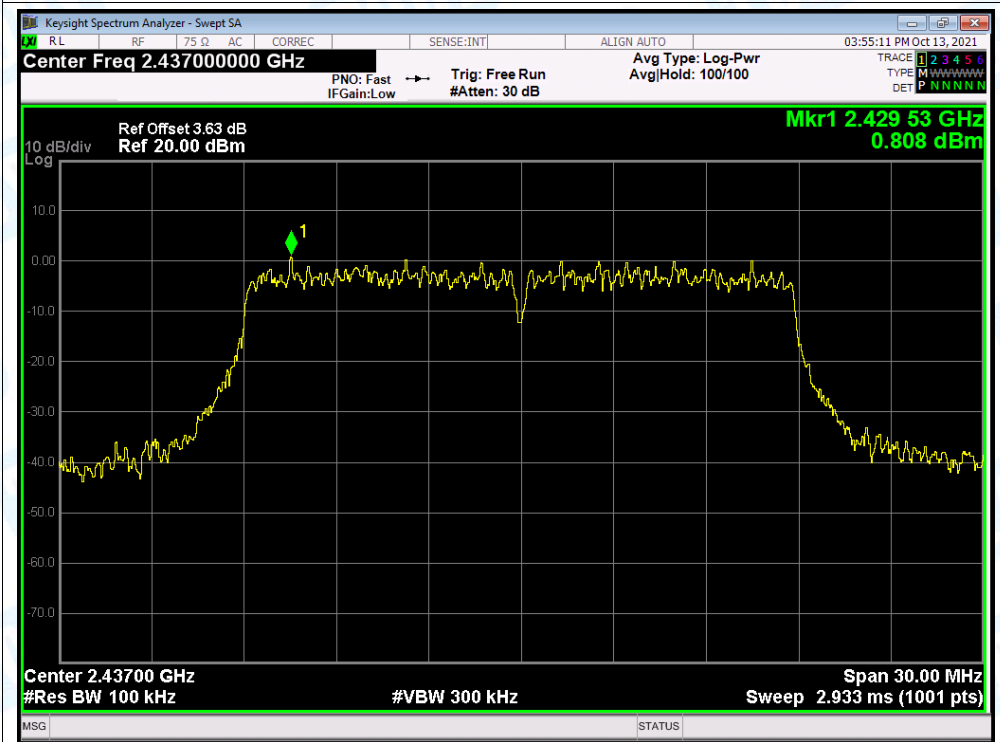
Tx. Spurious NVNT n(HT20) 2412MHz Ant1 Ref



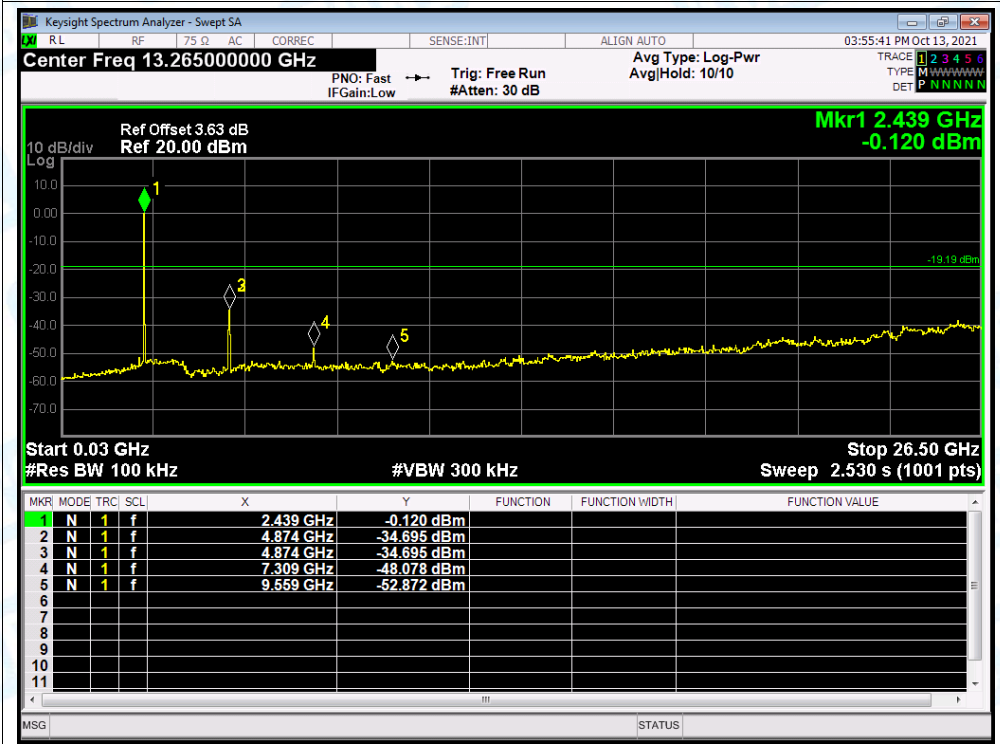
Tx. Spurious NVNT n(HT20) 2412MHz Ant1 Emission



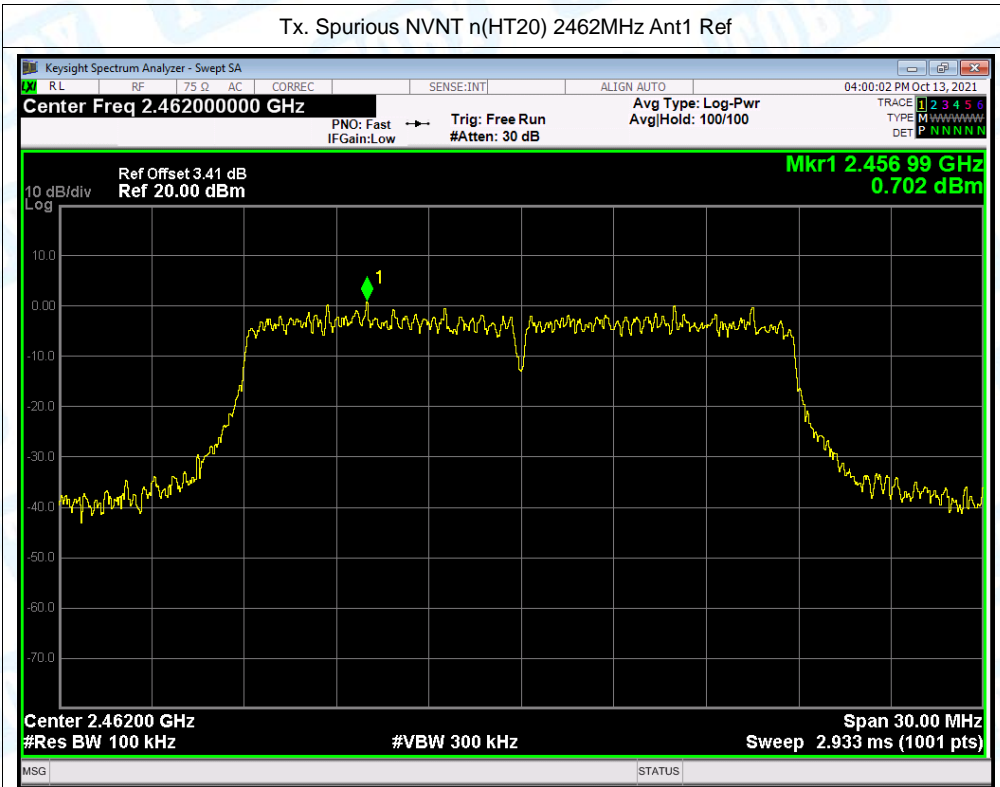
Tx. Spurious NVNT n(HT20) 2437MHz Ant1 Ref



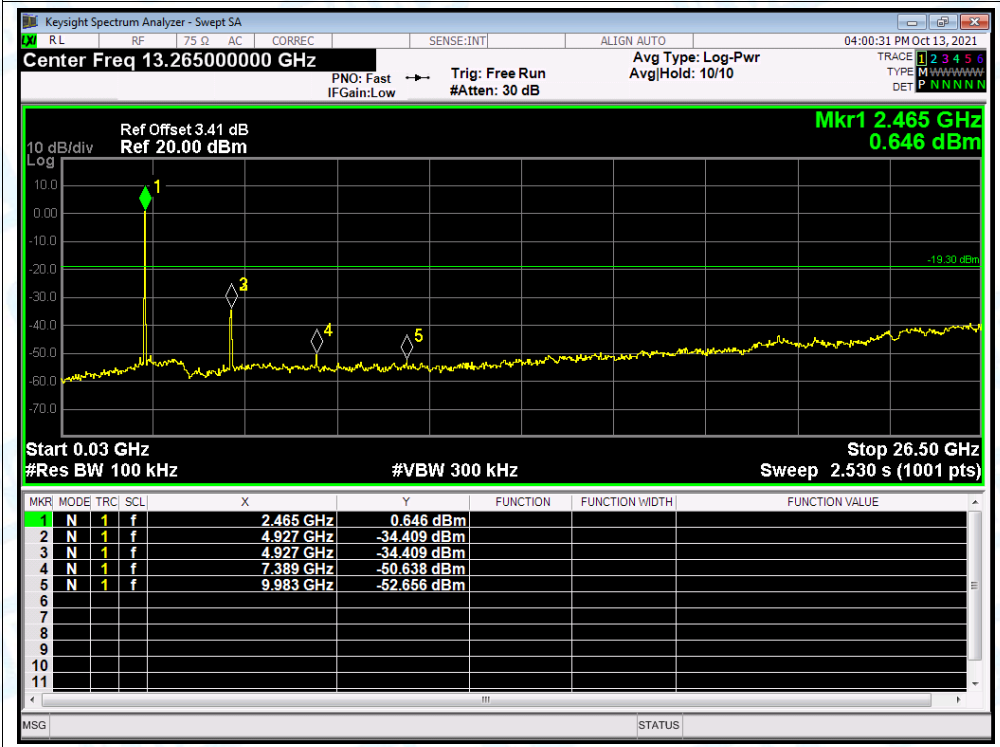
Tx. Spurious NVNT n(HT20) 2437MHz Ant1 Emission



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

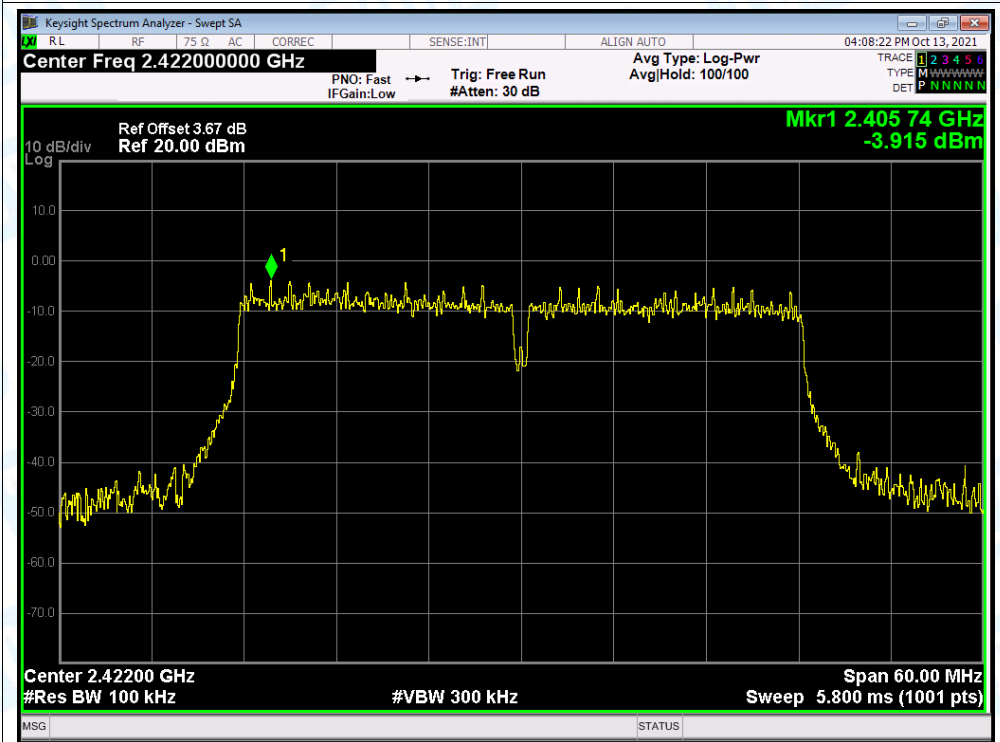


Tx. Spurious NVNT n(HT20) 2462MHz Ant1 Emission

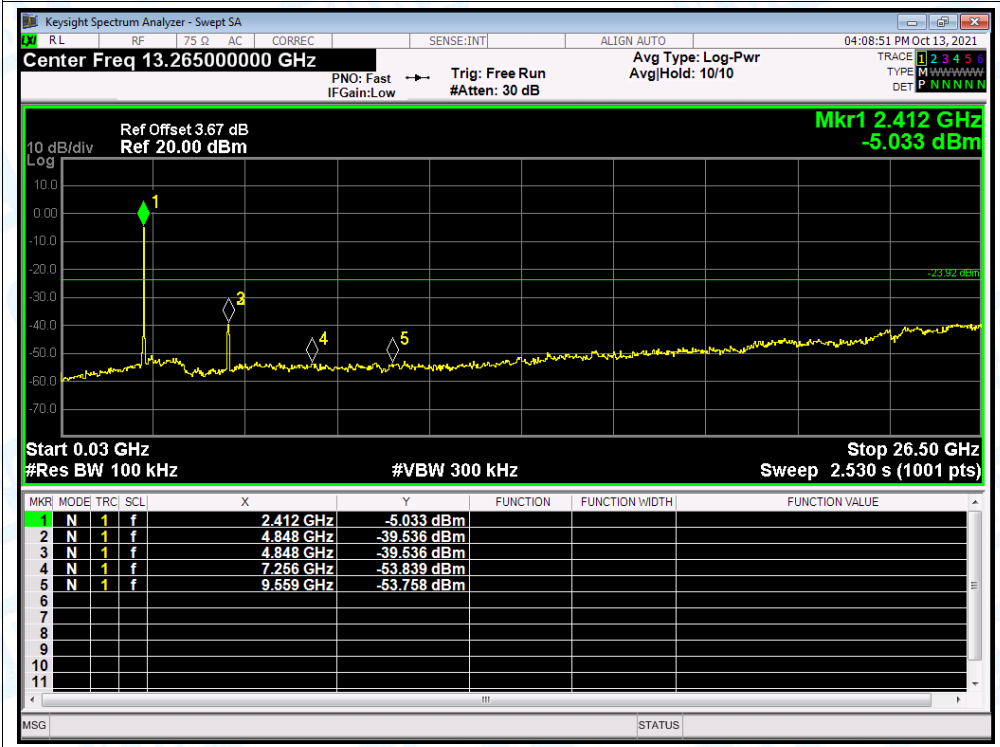




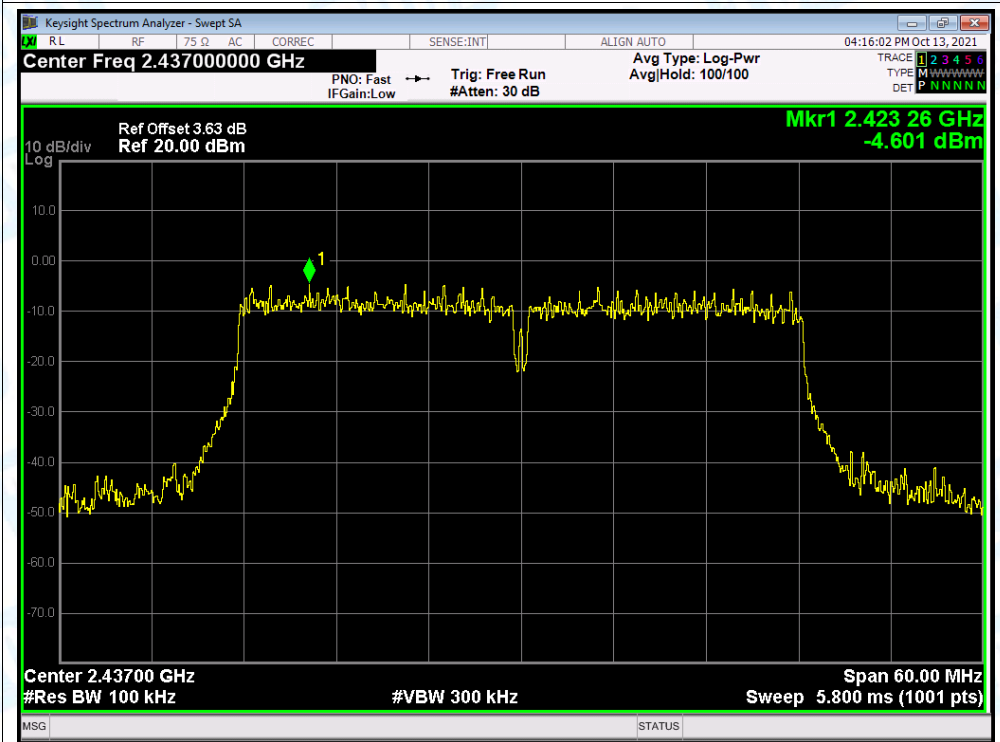
Tx. Spurious NVNT n(HT40) 2422MHz Ant1 Ref



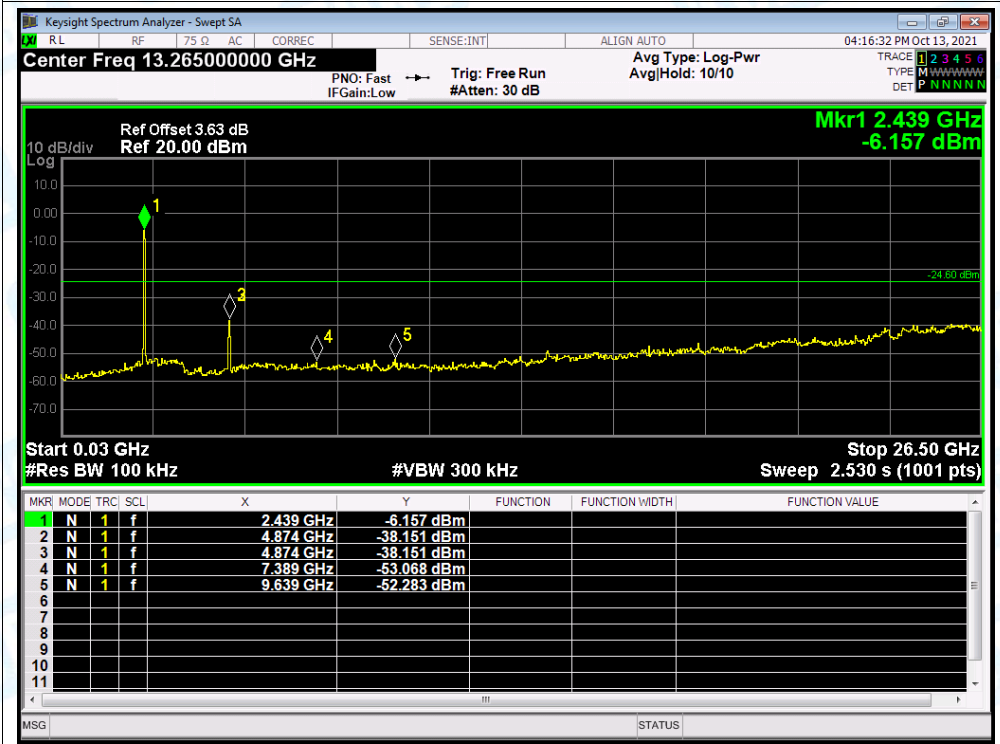
Tx. Spurious NVNT n(HT40) 2422MHz Ant1 Emission



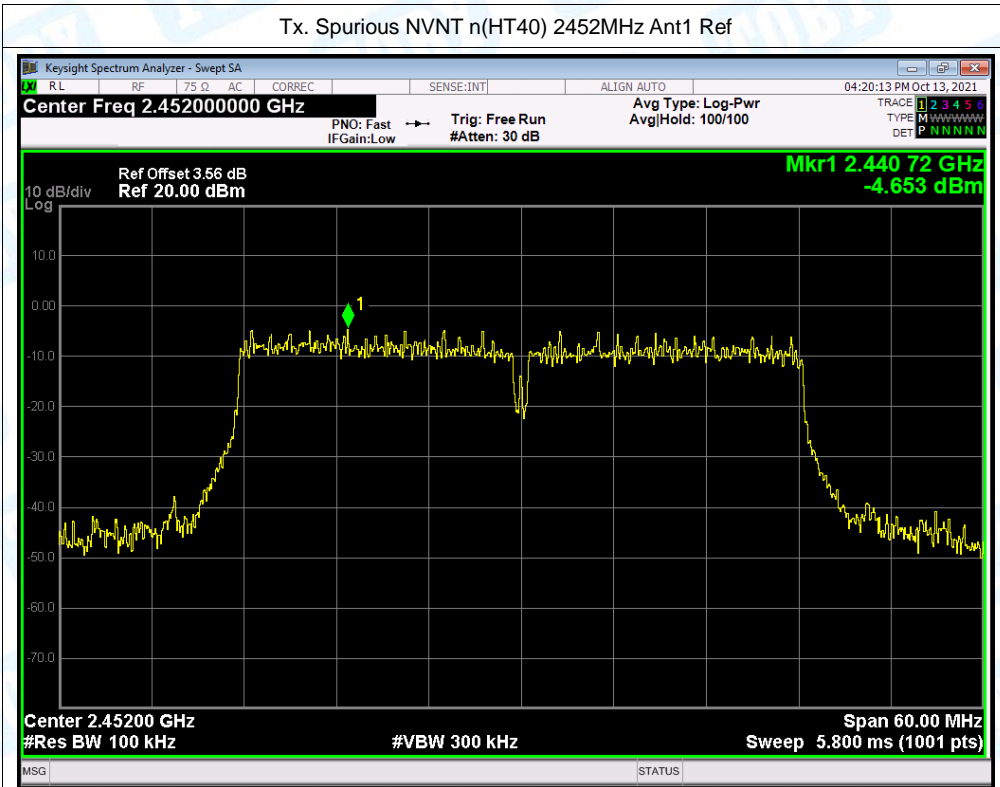
Tx. Spurious NVNT n(HT40) 2437MHz Ant1 Ref



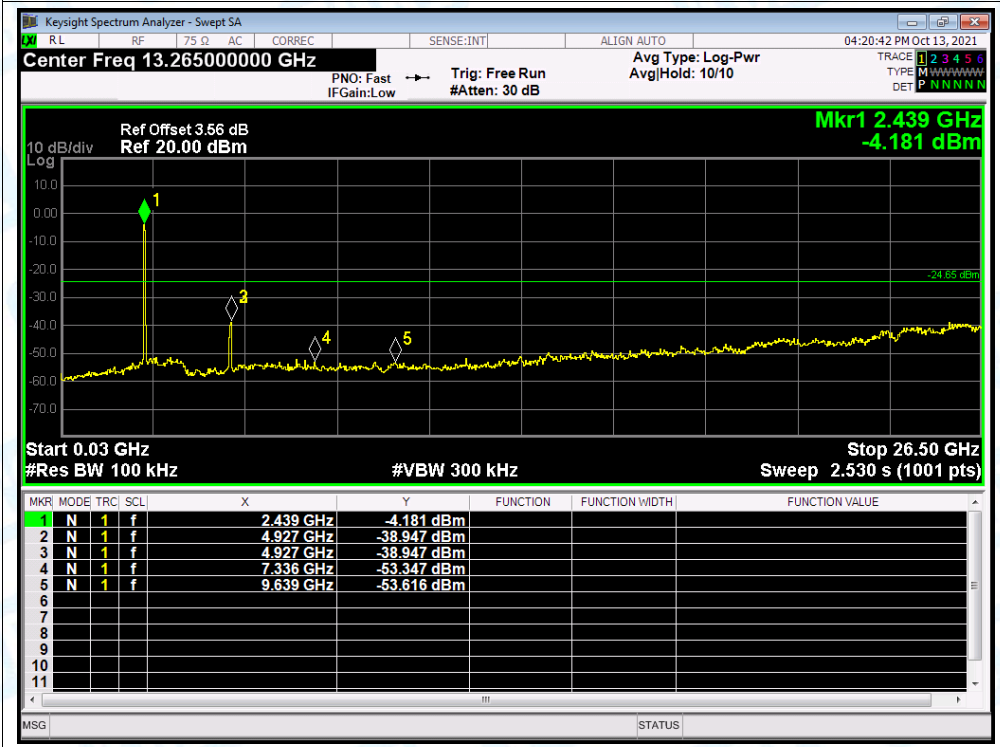
Tx. Spurious NVNT n(HT40) 2437MHz Ant1 Emission



Tx. Spurious NVNT n(HT40) 2452MHz Ant1 Ref



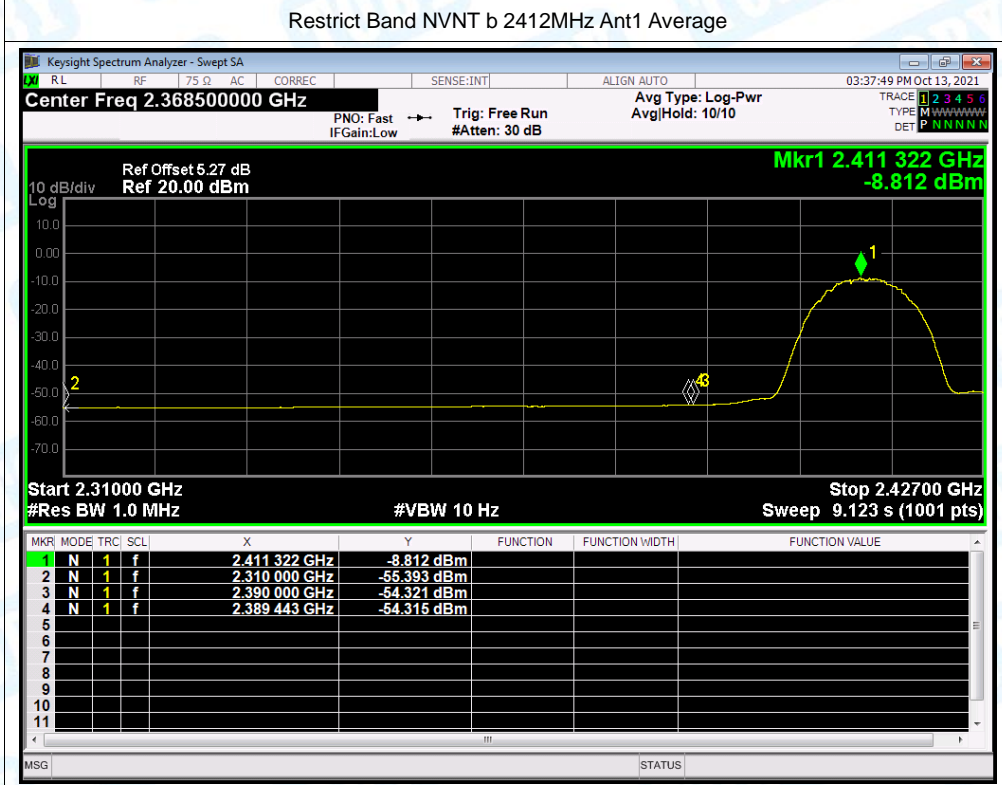
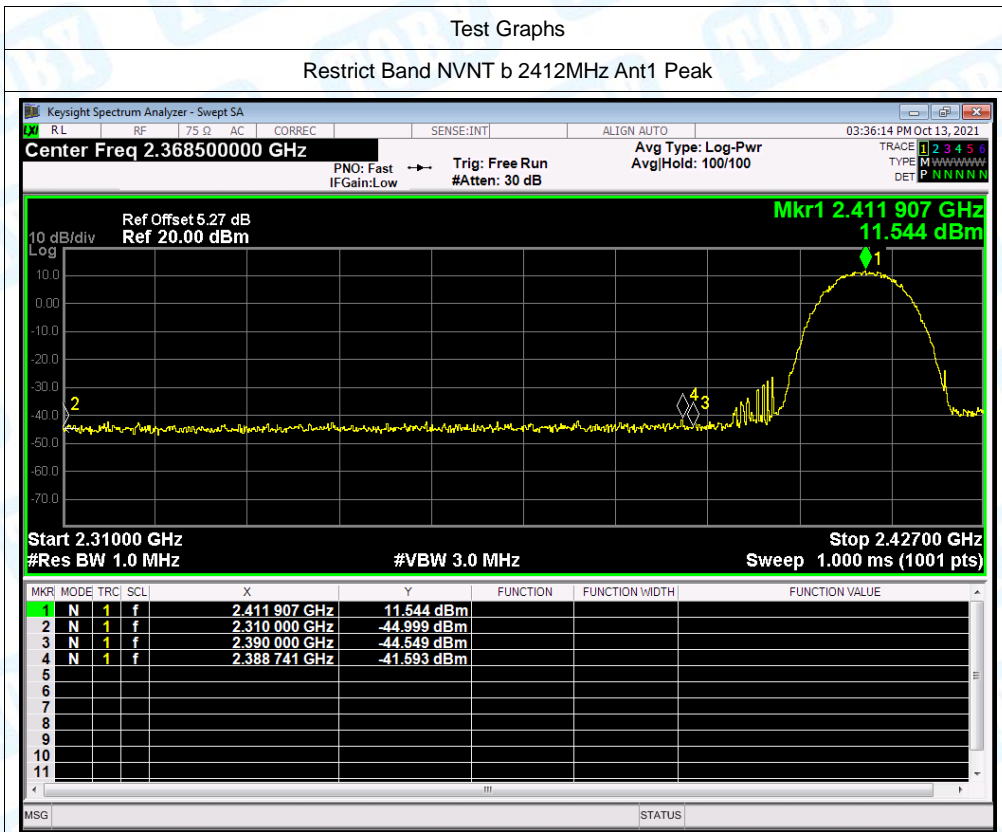
Tx. Spurious NVNT n(HT40) 2452MHz Ant1 Emission

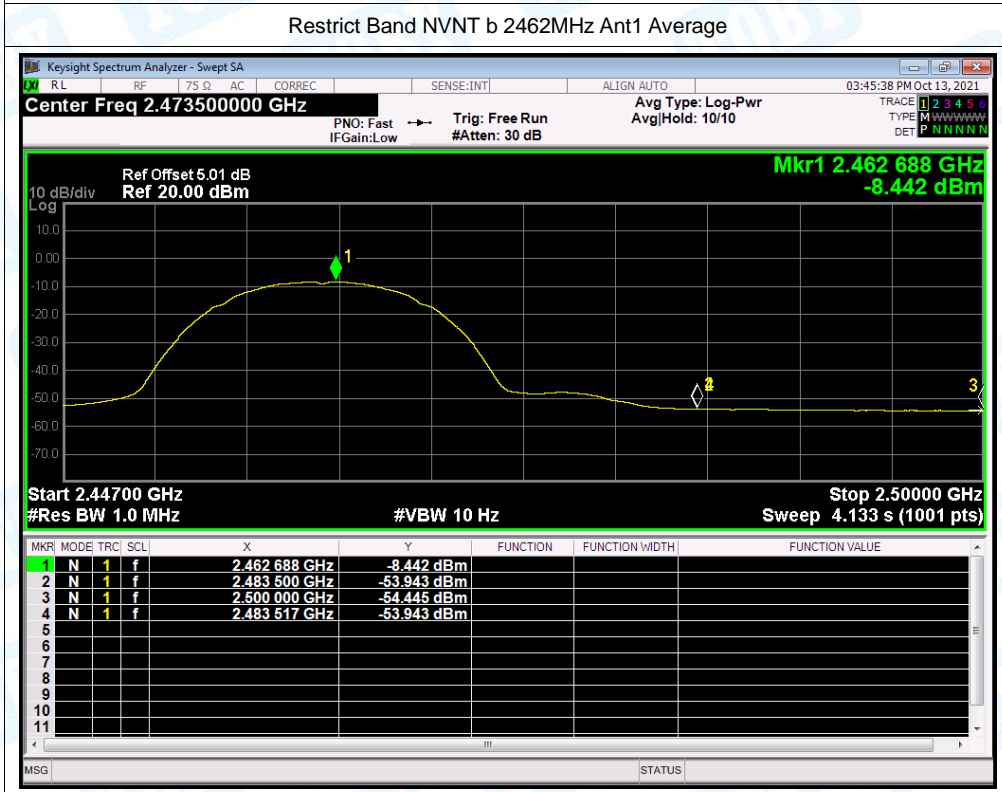
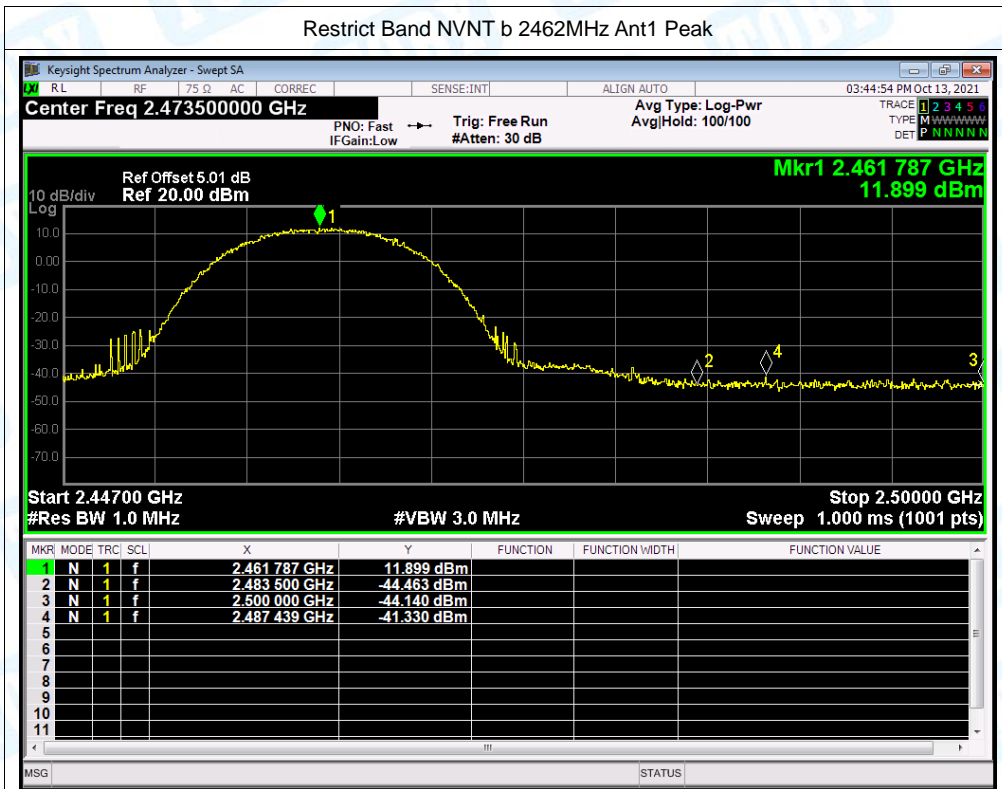


### Restrict Band

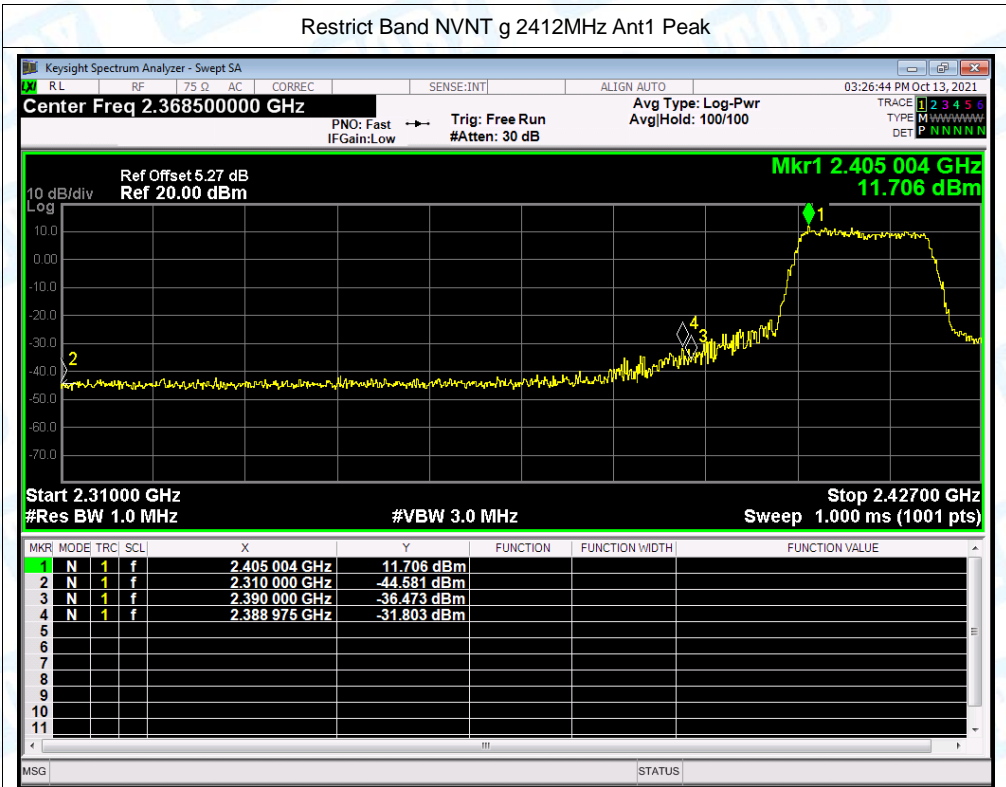
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	b	2412	Ant1	2310	-44.999	2.0	52.26	Peak	74	Pass
NVNT	b	2412	Ant1	2310	-55.393	2.0	41.86	Average	54	Pass
NVNT	b	2412	Ant1	2388.741	-41.593	2.0	55.66	Peak	74	Pass
NVNT	b	2412	Ant1	2389.443	-54.315	2.0	42.94	Average	54	Pass
NVNT	b	2412	Ant1	2390	-44.549	2.0	52.70	Peak	74	Pass
NVNT	b	2412	Ant1	2390	-54.321	2.0	42.93	Average	54	Pass
NVNT	b	2462	Ant1	2483.5	-44.463	2.0	52.79	Peak	74	Pass
NVNT	b	2462	Ant1	2483.5	-53.943	2.0	43.31	Average	54	Pass
NVNT	b	2462	Ant1	2487.439	-41.330	2.0	55.92	Peak	74	Pass
NVNT	b	2462	Ant1	2483.517	-53.943	2.0	43.31	Average	54	Pass
NVNT	b	2462	Ant1	2500	-44.140	2.0	53.11	Peak	74	Pass
NVNT	b	2462	Ant1	2500	-54.445	2.0	42.81	Average	54	Pass
NVNT	g	2412	Ant1	2310	-44.581	2.0	52.67	Peak	74	Pass
NVNT	g	2412	Ant1	2310	-55.223	2.0	42.04	Average	54	Pass
NVNT	g	2412	Ant1	2388.975	-31.803	2.0	65.45	Peak	74	Pass
NVNT	g	2412	Ant1	2389.911	-51.934	2.0	45.32	Average	54	Pass
NVNT	g	2412	Ant1	2390	-36.473	2.0	60.78	Peak	74	Pass
NVNT	g	2412	Ant1	2390	-51.866	2.0	45.38	Average	54	Pass
NVNT	g	2462	Ant1	2483.5	-32.094	2.0	65.16	Peak	74	Pass
NVNT	g	2462	Ant1	2483.5	-48.814	2.0	48.44	Average	54	Pass
NVNT	g	2462	Ant1	2484.471	-30.065	2.0	67.19	Peak	74	Pass
NVNT	g	2462	Ant1	2483.517	-48.814	2.0	48.44	Average	54	Pass
NVNT	g	2462	Ant1	2500	-44.436	2.0	52.81	Peak	74	Pass
NVNT	g	2462	Ant1	2500	-54.254	2.0	43.00	Average	54	Pass
NVNT	n(HT20)	2412	Ant1	2310	-45.027	2.0	52.22	Peak	74	Pass
NVNT	n(HT20)	2412	Ant1	2310	-55.227	2.0	42.02	Average	54	Pass
NVNT	n(HT20)	2412	Ant1	2389.326	-32.001	2.0	65.25	Peak	74	Pass
NVNT	n(HT20)	2412	Ant1	2389.911	-51.716	2.0	45.54	Average	54	Pass
NVNT	n(HT20)	2412	Ant1	2390	-34.001	2.0	63.25	Peak	74	Pass
NVNT	n(HT20)	2412	Ant1	2390	-51.612	2.0	45.64	Average	54	Pass
NVNT	n(HT20)	2462	Ant1	2483.5	-32.899	2.0	64.35	Peak	74	Pass
NVNT	n(HT20)	2462	Ant1	2483.5	-48.368	2.0	48.88	Average	54	Pass
NVNT	n(HT20)	2462	Ant1	2484.524	-28.248	2.0	69.00	Peak	74	Pass
NVNT	n(HT20)	2462	Ant1	2483.517	-48.368	2.0	48.88	Average	54	Pass
NVNT	n(HT20)	2462	Ant1	2500	-44.912	2.0	52.34	Peak	74	Pass
NVNT	n(HT20)	2462	Ant1	2500	-54.217	2.0	43.03	Average	54	Pass
NVNT	n(HT40)	2422	Ant1	2310	-44.198	2.0	53.05	Peak	74	Pass
NVNT	n(HT40)	2422	Ant1	2310	-55.460	2.0	41.79	Average	54	Pass
NVNT	n(HT40)	2422	Ant1	2386.254	-27.426	2.0	69.82	Peak	74	Pass
NVNT	n(HT40)	2422	Ant1	2389.946	-52.835	2.0	44.42	Average	54	Pass
NVNT	n(HT40)	2422	Ant1	2390	-38.534	2.0	58.72	Peak	74	Pass
NVNT	n(HT40)	2422	Ant1	2390	-52.835	2.0	44.42	Average	54	Pass
NVNT	n(HT40)	2452	Ant1	2483.5	-36.417	2.0	60.83	Peak	74	Pass

NVNT	n(HT40)	2452	Ant1	2483.5	-50.153	2.0	47.11	Average	54	Pass
NVNT	n(HT40)	2452	Ant1	2484.088	-30.649	2.0	66.60	Peak	74	Pass
NVNT	n(HT40)	2452	Ant1	2483.542	-50.176	2.0	47.07	Average	54	Pass
NVNT	n(HT40)	2452	Ant1	2500	-42.984	2.0	54.27	Peak	74	Pass
NVNT	n(HT40)	2452	Ant1	2500	-53.465	2.0	43.79	Average	54	Pass

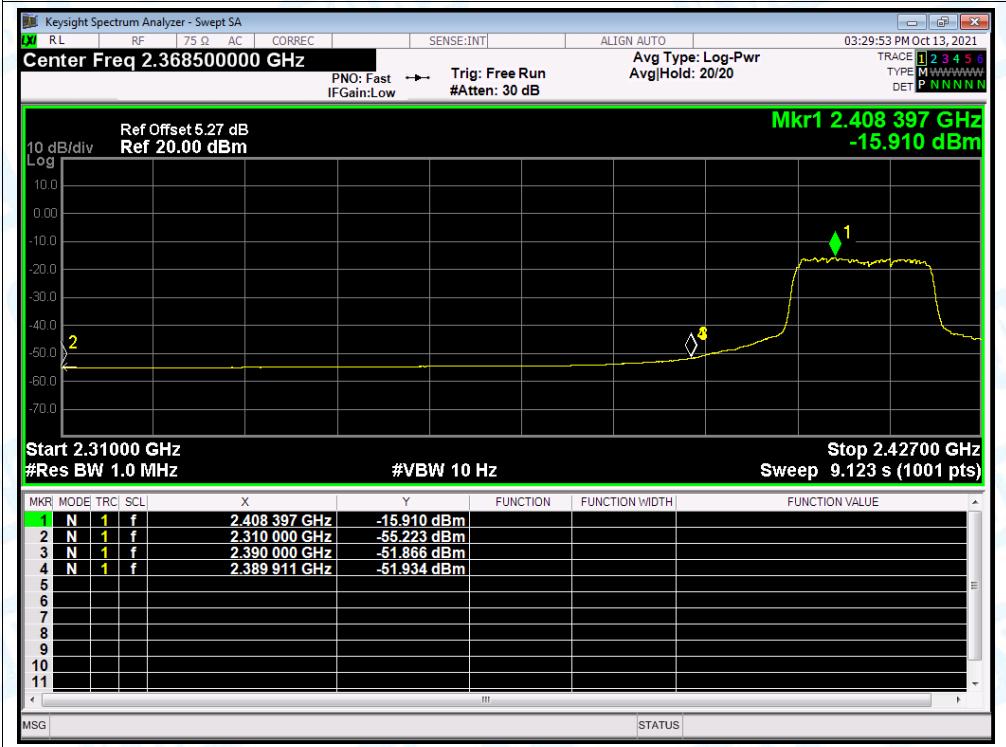




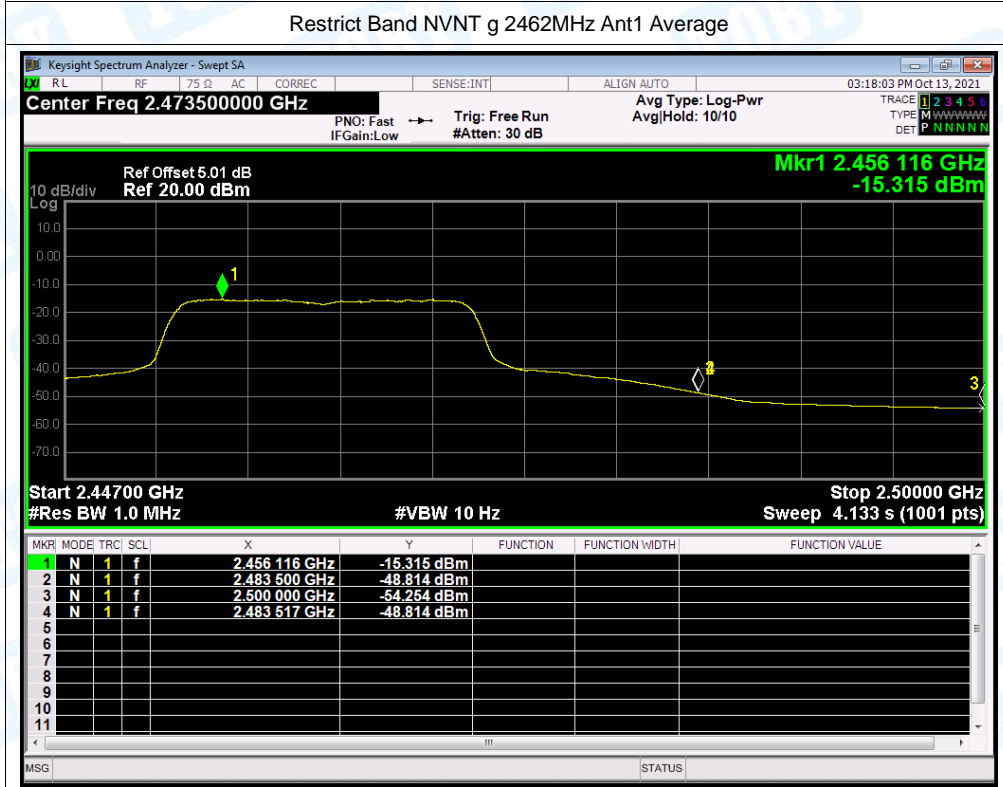
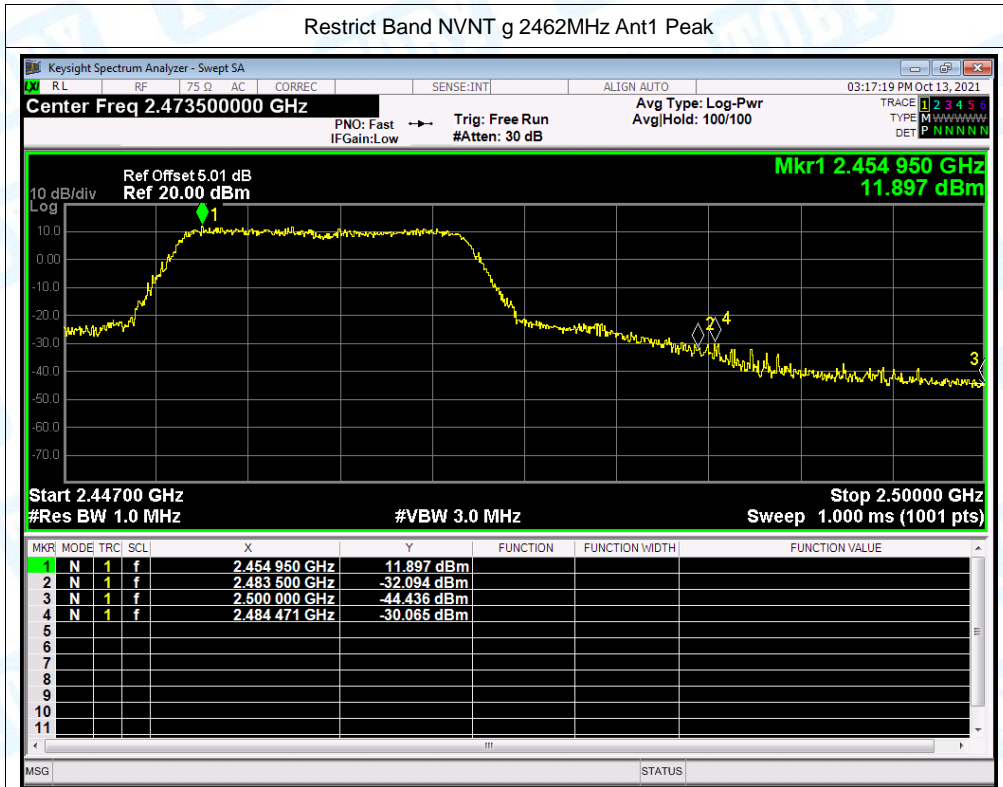
Restrict Band NVNT g 2412MHz Ant1 Peak



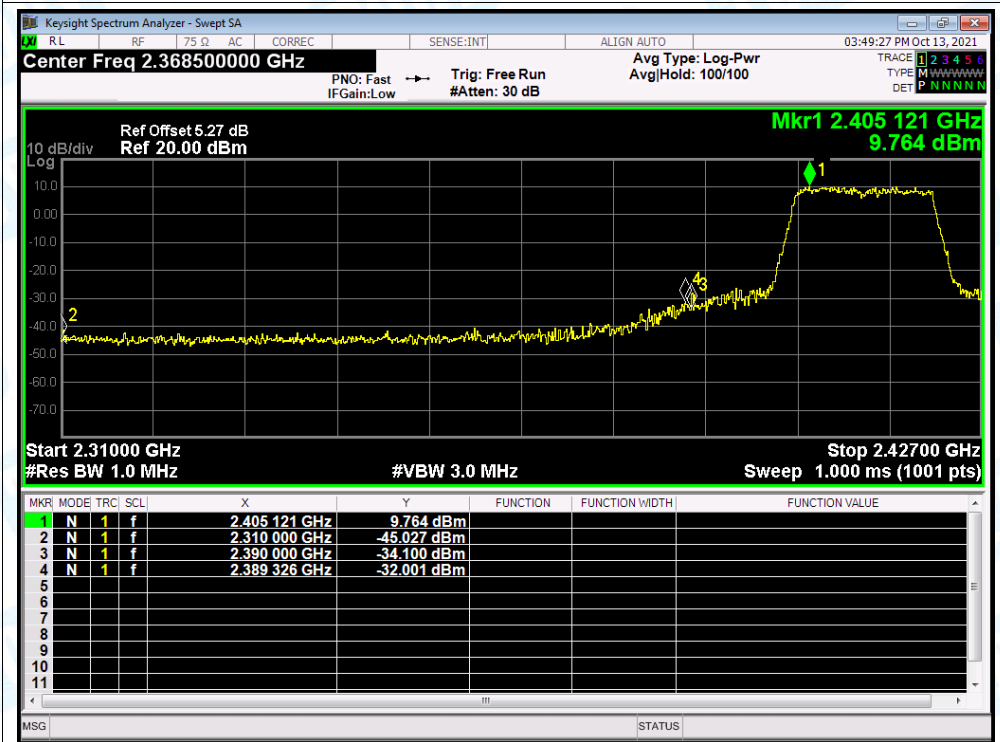
Restrict Band NVNT g 2412MHz Ant1 Average



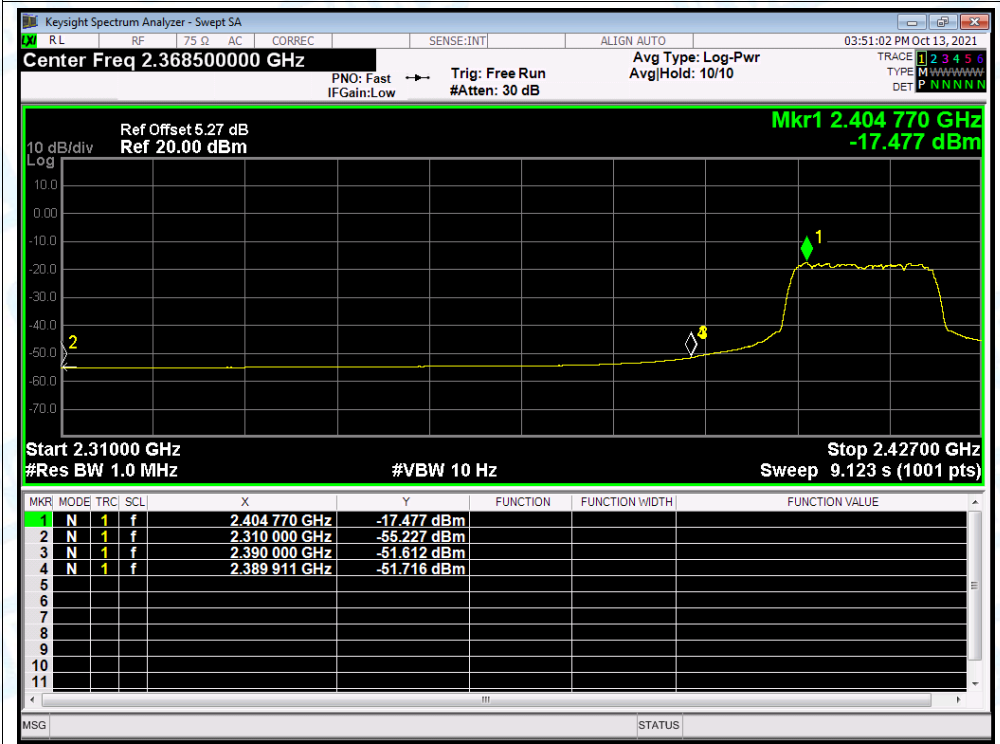


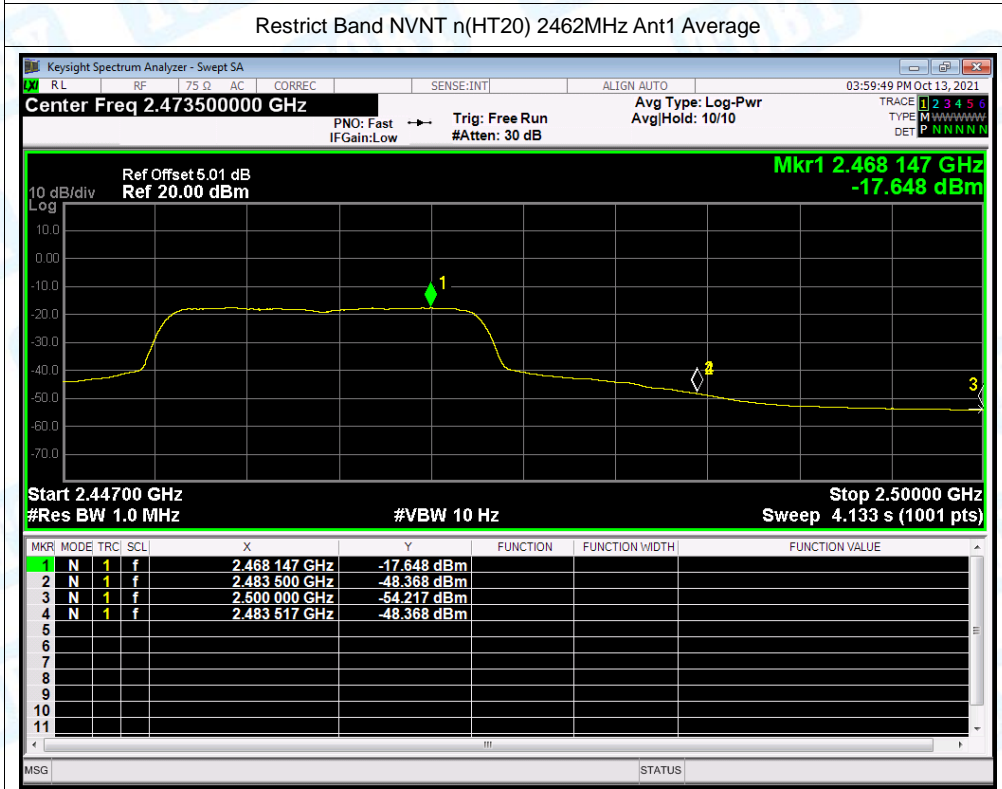
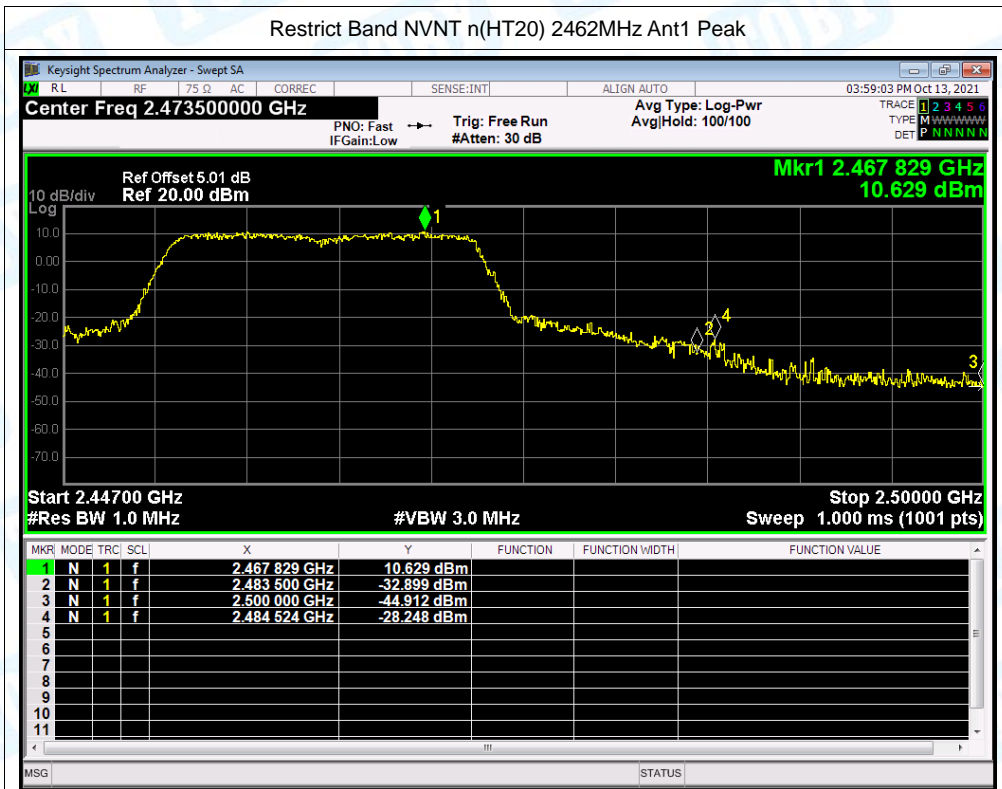


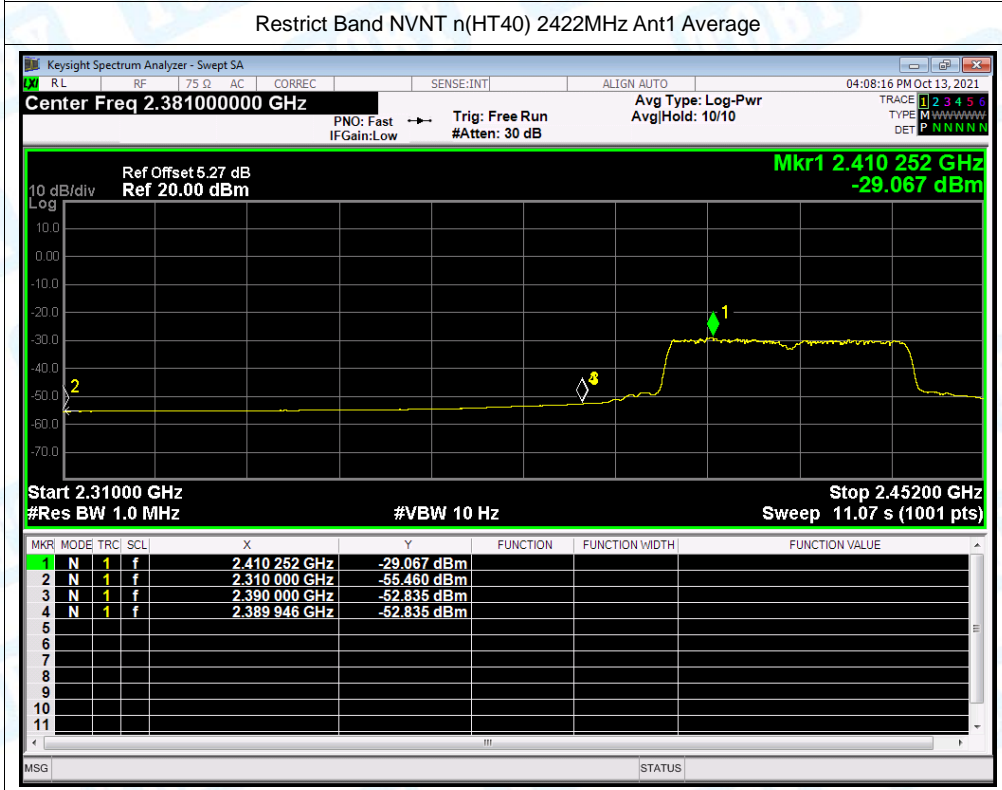
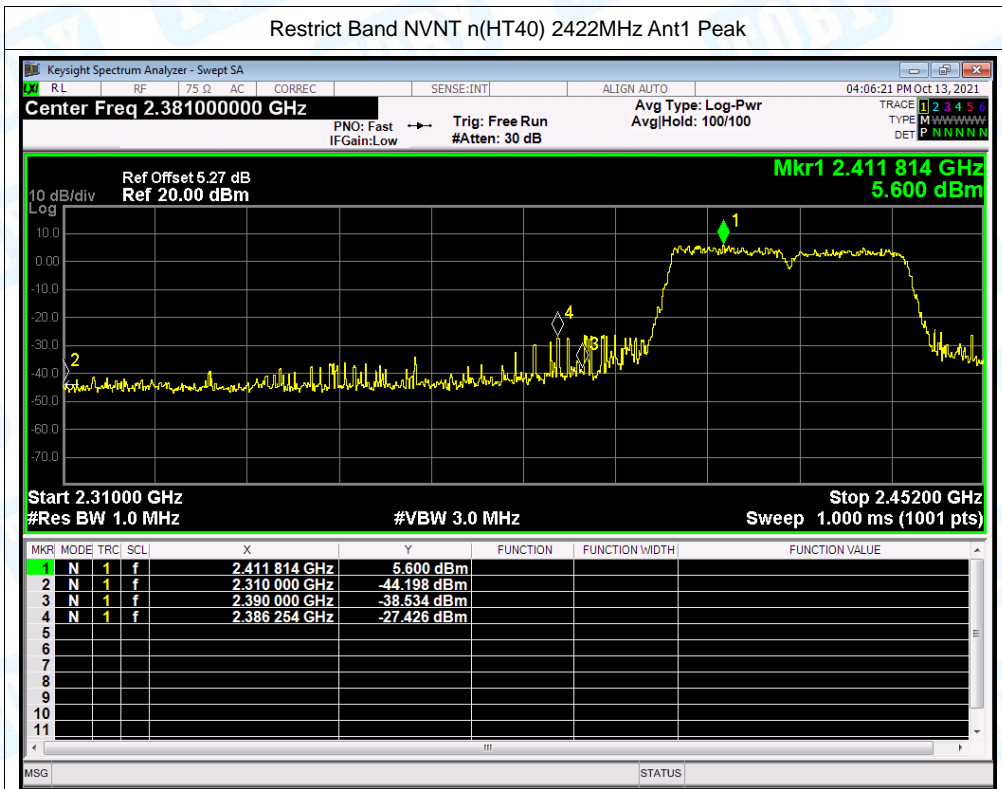
Restrict Band NVNT n(HT20) 2412MHz Ant1 Peak



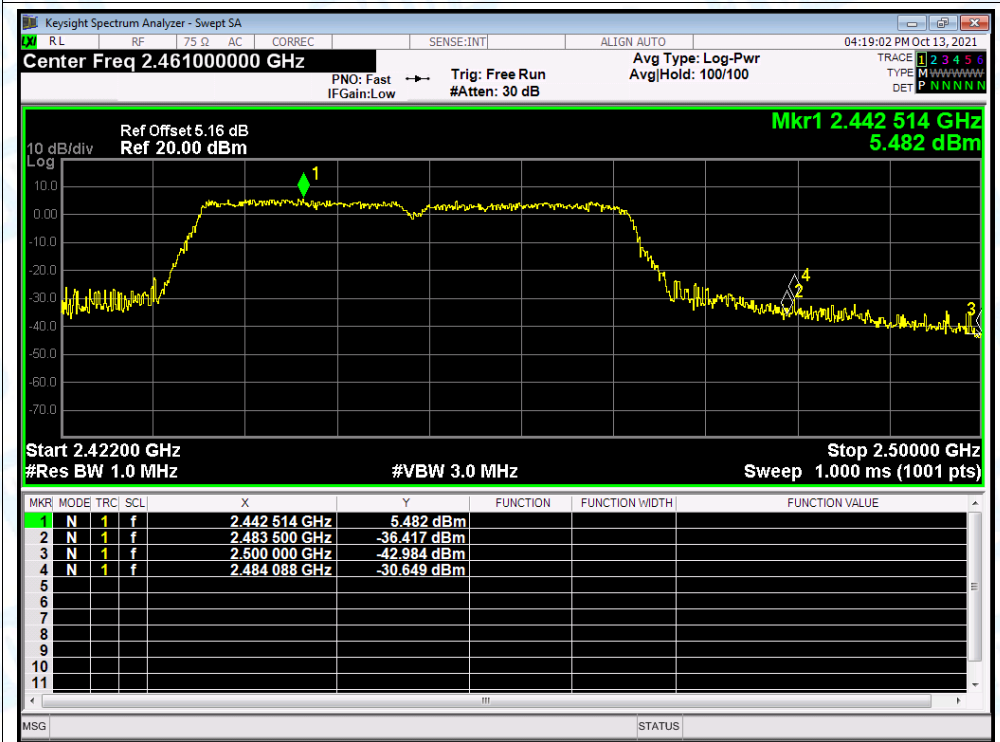
Restrict Band NVNT n(HT20) 2412MHz Ant1 Average







Restrict Band NVNT n(HT40) 2452MHz Ant1 Peak



Restrict Band NVNT n(HT40) 2452MHz Ant1 Average

