

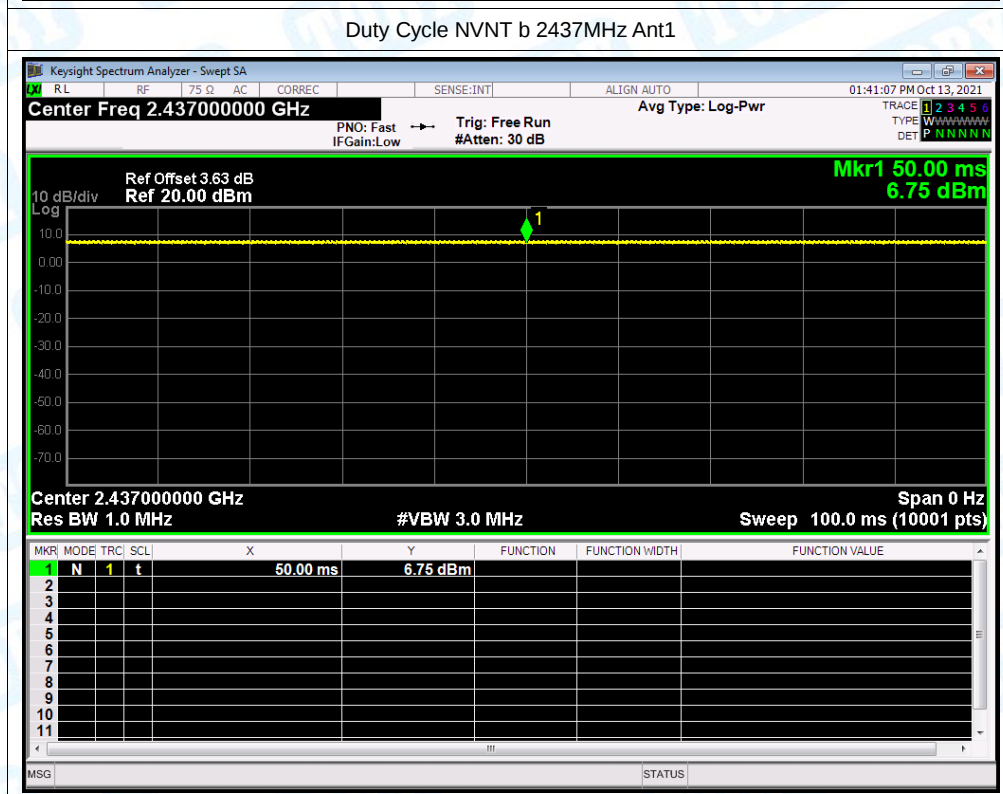
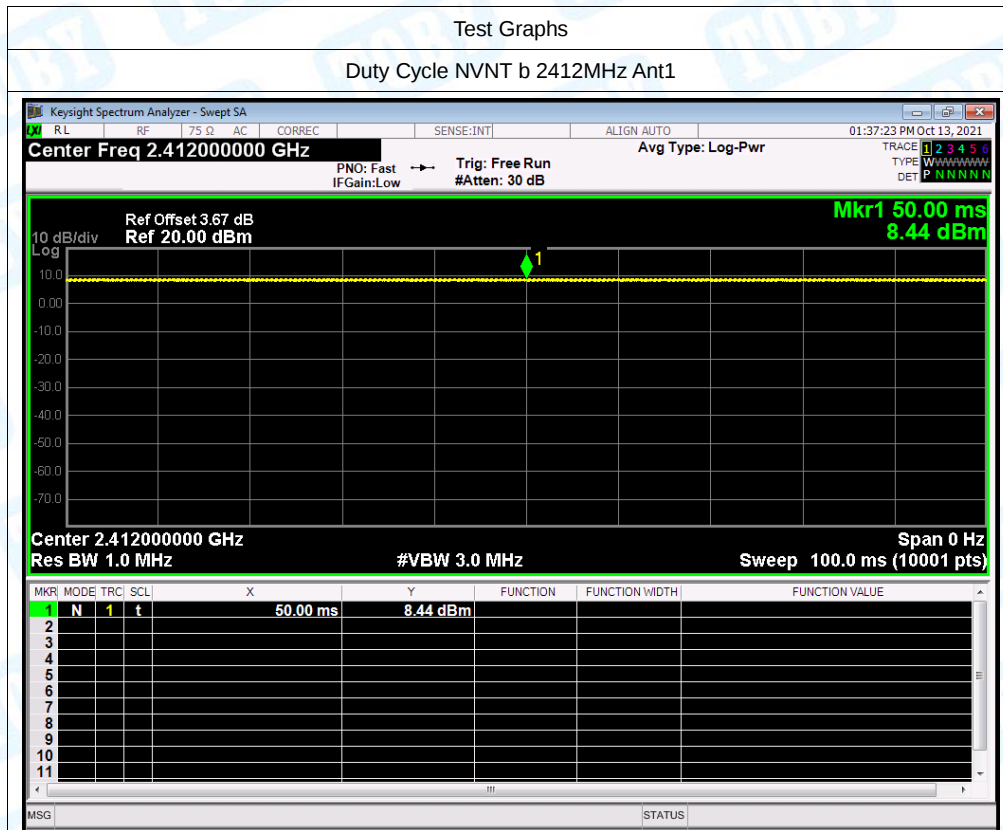
RF Test Data for 2.4G WiFi

(Conducted Measurements)

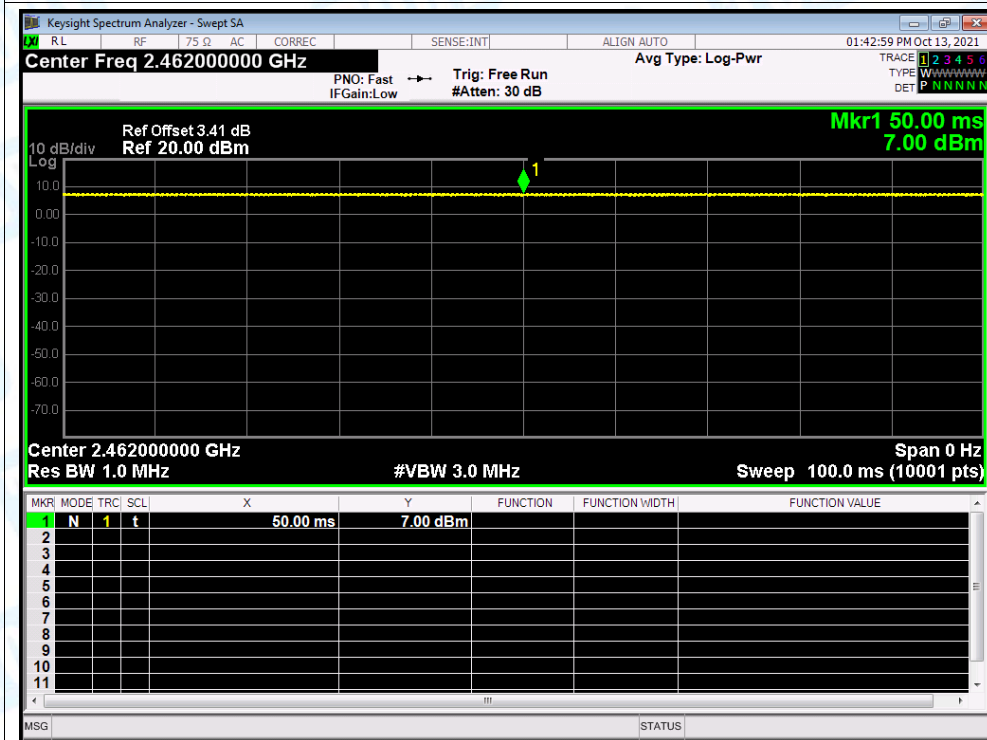
General Description of EUT	
Product Name:	Indoor Cam
Test Model:	XC100
Sample ID:	20210928-15_1-02#
Environmental Conditions	
Temperature:	23.8℃
Relative Humidity:	48%
Test Voltage:	DC 5V
Test Engineer:	HeJingchang
Note: For a more detailed features description, please refer to the report TB-RF184062	

Duty Cycle

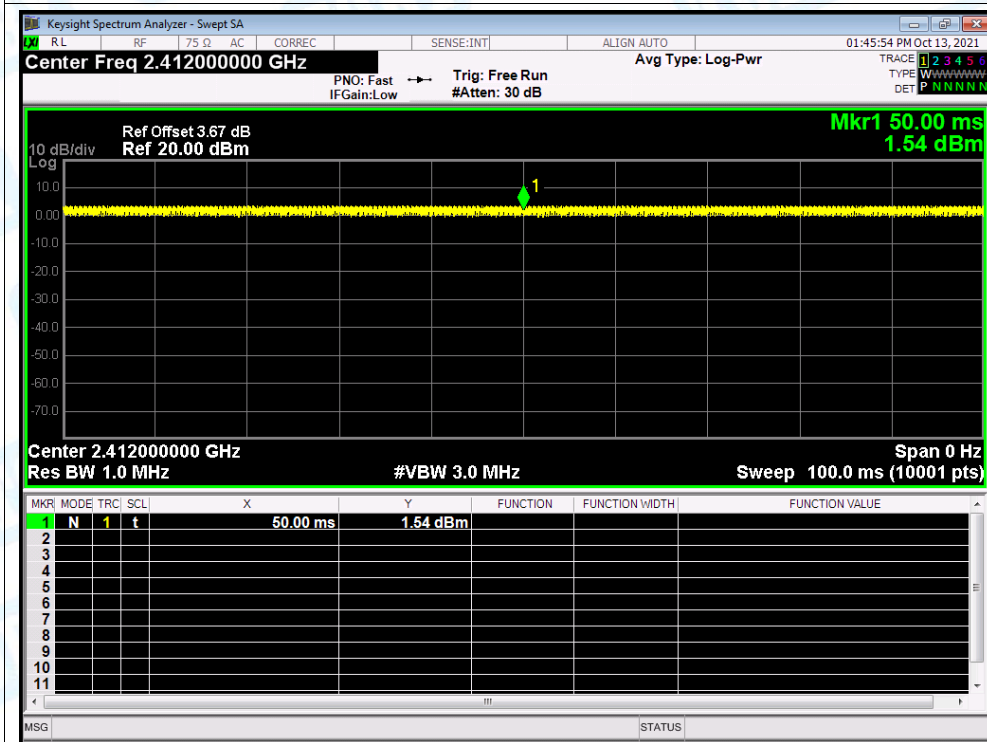
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	100	0	0
NVNT	b	2437	Ant1	100	0	0
NVNT	b	2462	Ant1	100	0	0
NVNT	g	2412	Ant1	100	0	0
NVNT	g	2437	Ant1	100	0	0
NVNT	g	2462	Ant1	100	0	0
NVNT	n(HT20)	2412	Ant1	100	0	0
NVNT	n(HT20)	2437	Ant1	100	0	0
NVNT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



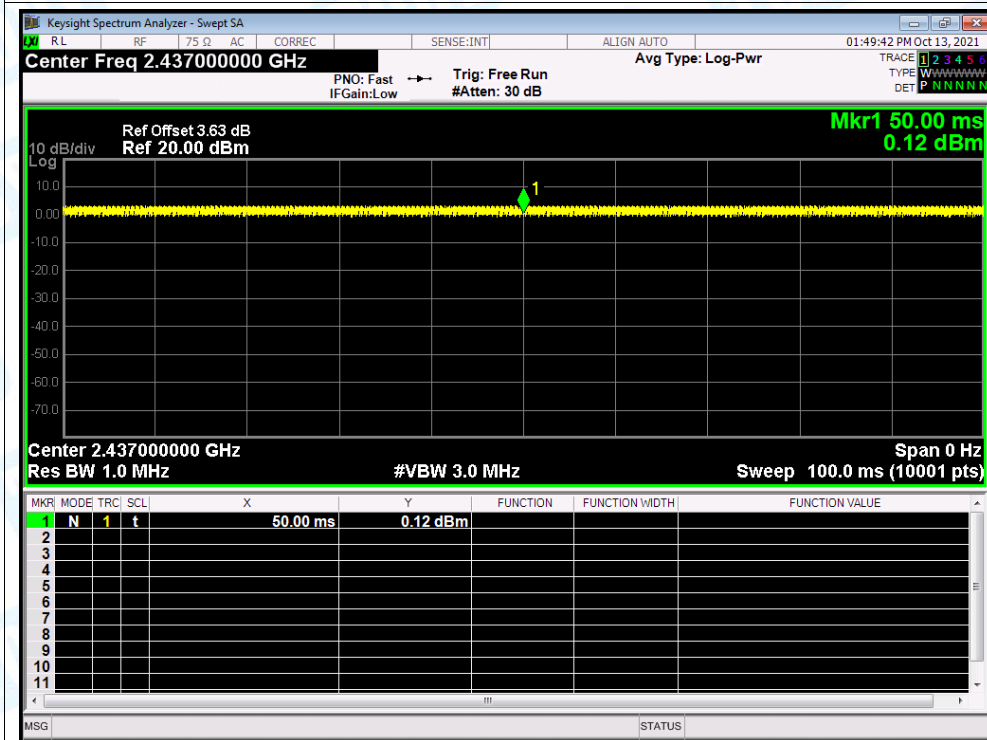
Duty Cycle NVNT b 2462MHz Ant1



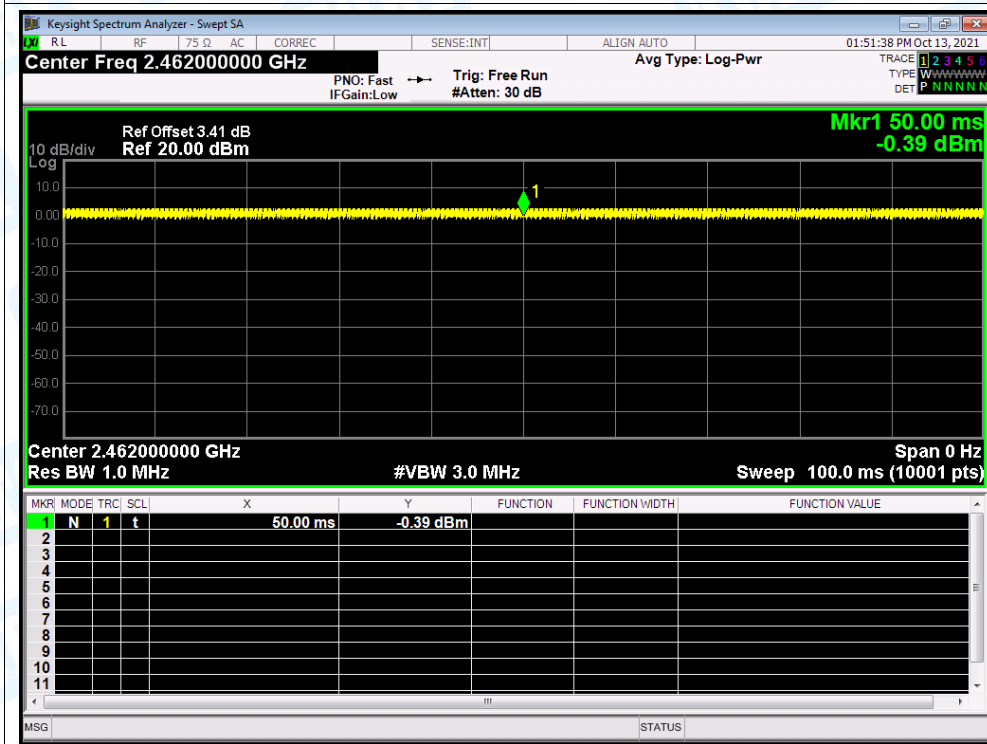
Duty Cycle NVNT g 2412MHz Ant1



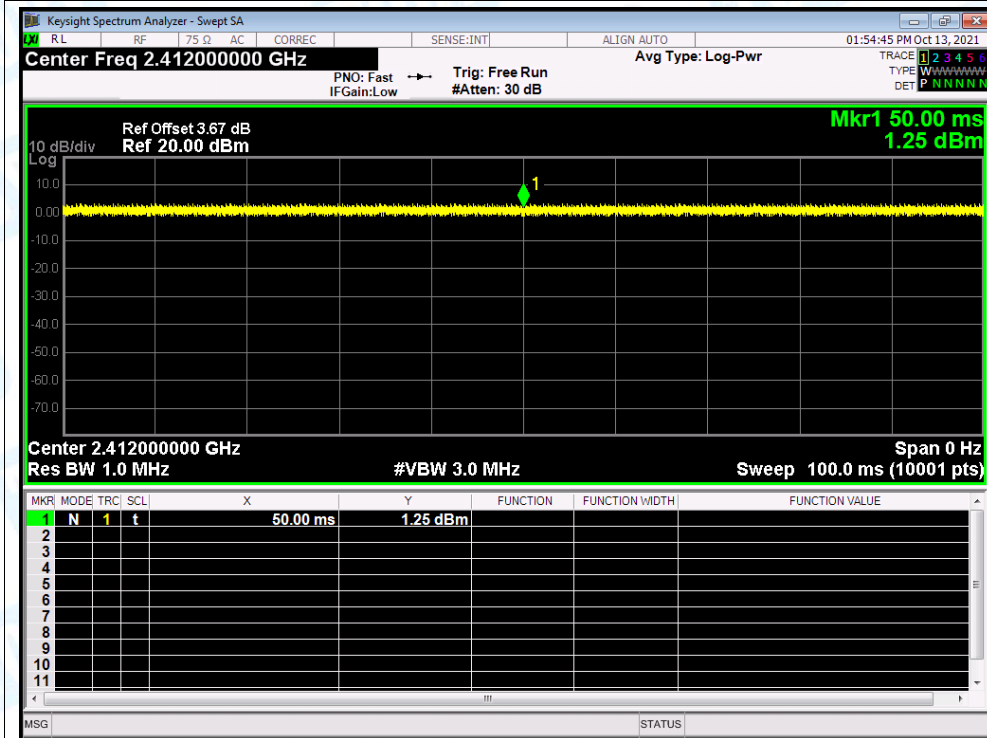
Duty Cycle NVNT g 2437MHz Ant1



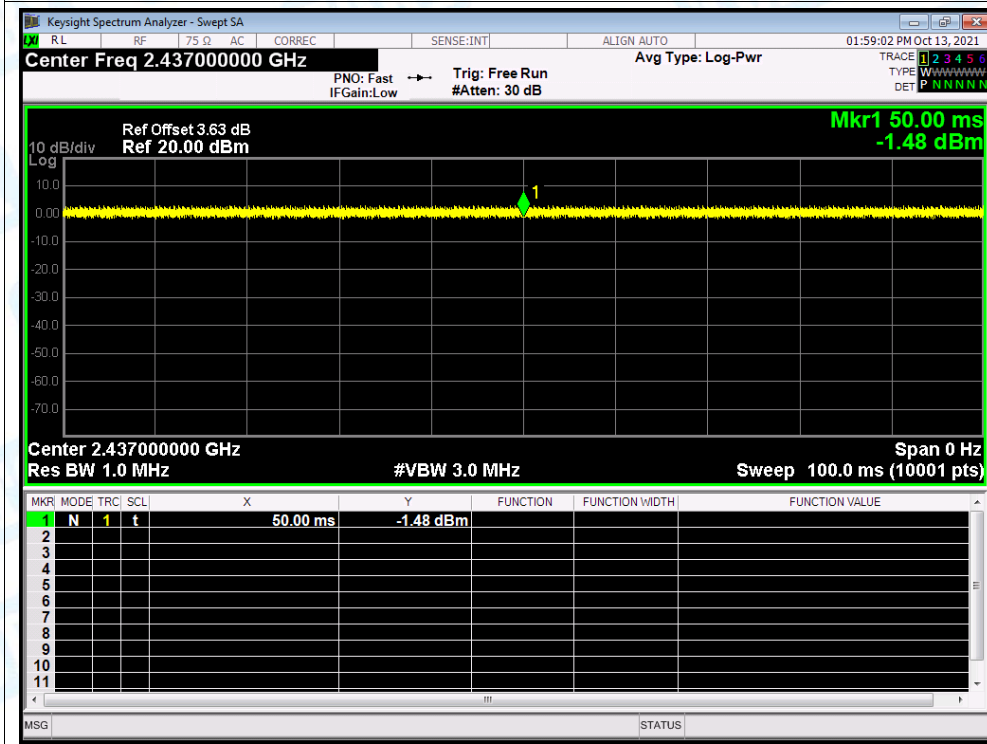
Duty Cycle NVNT g 2462MHz Ant1



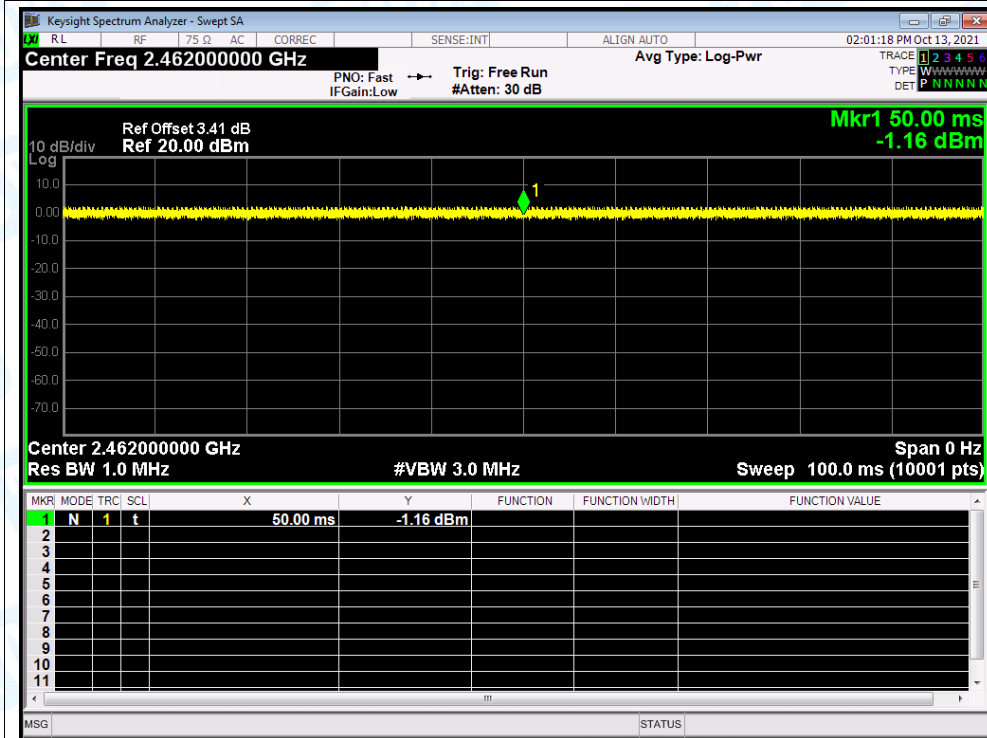
Duty Cycle NVNT n(HT20) 2412MHz Ant1



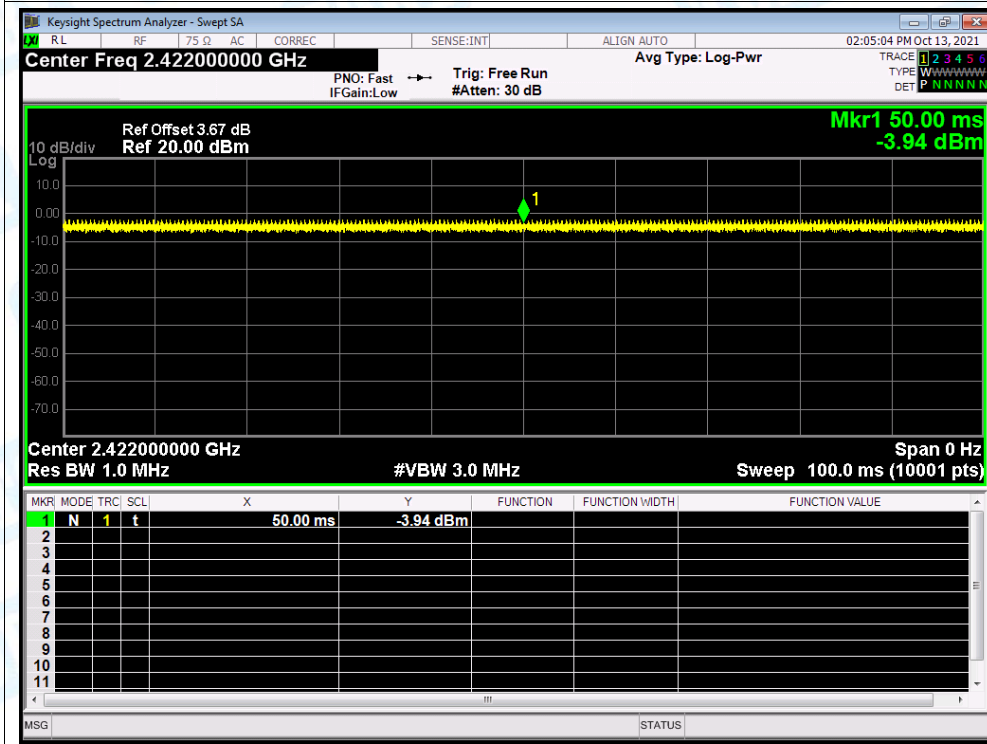
Duty Cycle NVNT n(HT20) 2437MHz Ant1



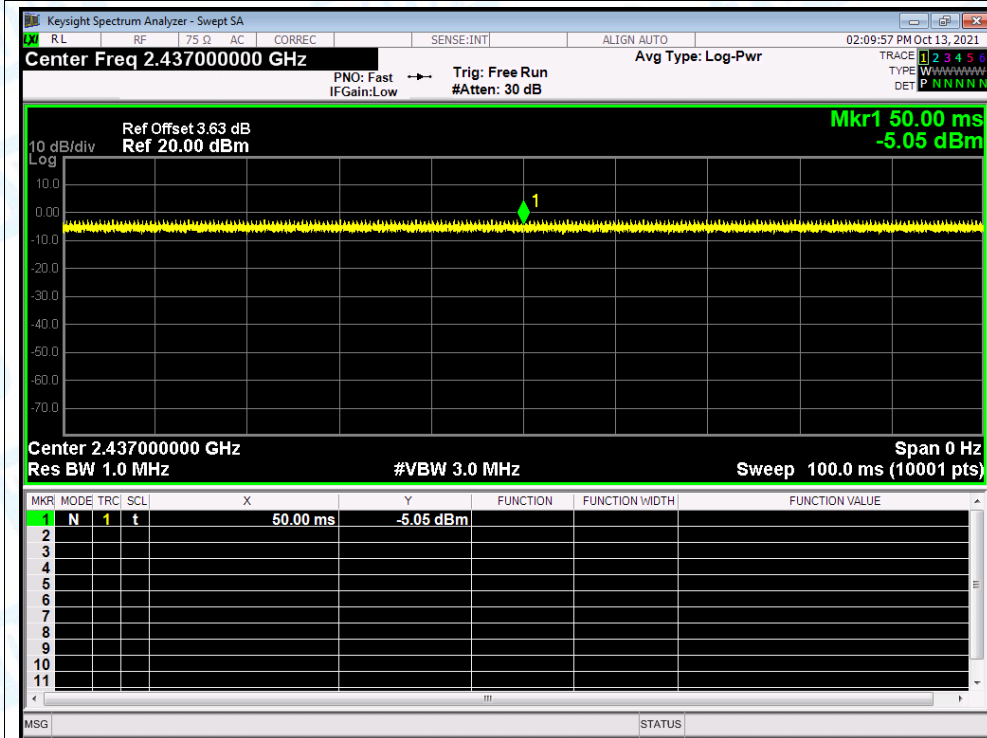
Duty Cycle NVNT n(HT20) 2462MHz Ant1



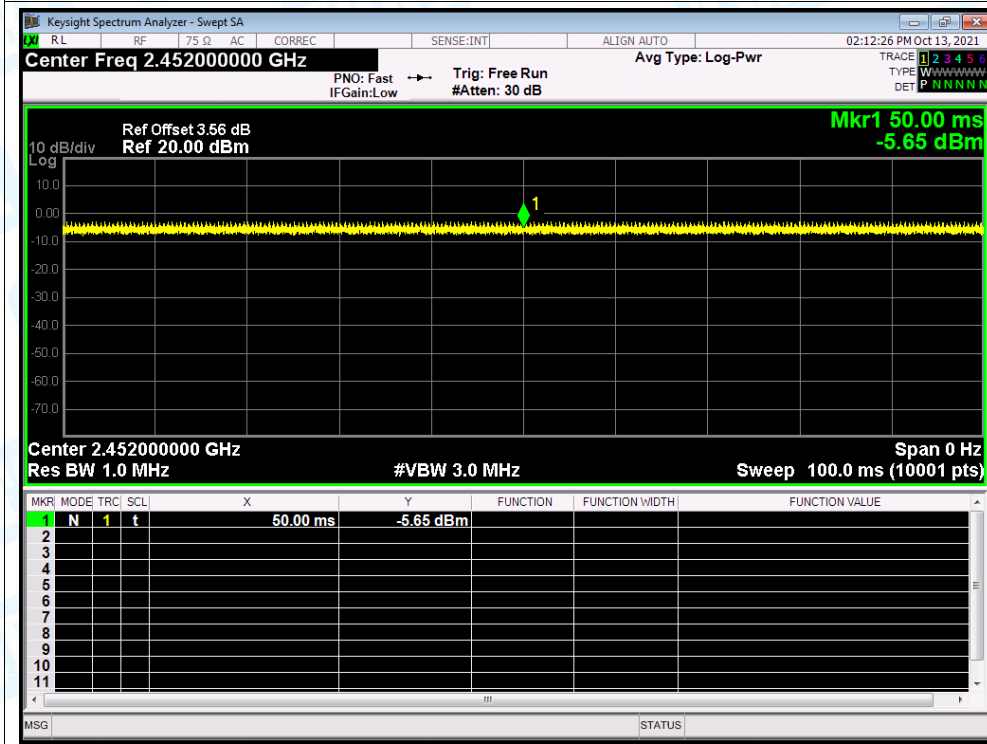
Duty Cycle NVNT n(HT40) 2422MHz Ant1



Duty Cycle NVNT n(HT40) 2437MHz Ant1



Duty Cycle NVNT n(HT40) 2452MHz Ant1



Maximum Conducted Output Power

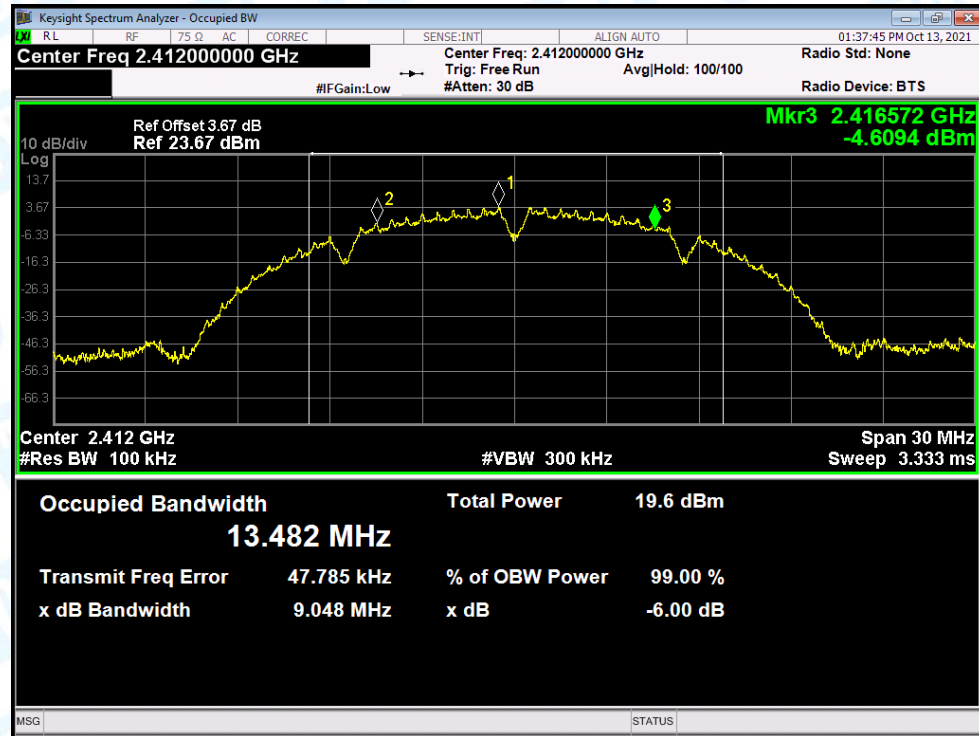
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	14.697	0	14.697	30	Pass
NVNT	b	2437	Ant1	13.476	0	13.476	30	Pass
NVNT	b	2462	Ant1	13.419	0	13.419	30	Pass
NVNT	g	2412	Ant1	13.164	0	13.164	30	Pass
NVNT	g	2437	Ant1	13.04	0	13.04	30	Pass
NVNT	g	2462	Ant1	12.569	0	12.569	30	Pass
NVNT	n(HT20)	2412	Ant1	12.442	0	12.442	30	Pass
NVNT	n(HT20)	2437	Ant1	12.255	0	12.255	30	Pass
NVNT	n(HT20)	2462	Ant1	11.775	0	11.775	30	Pass
NVNT	n(HT40)	2422	Ant1	12.757	0	12.757	30	Pass
NVNT	n(HT40)	2437	Ant1	12.402	0	12.402	30	Pass
NVNT	n(HT40)	2452	Ant1	12.259	0	12.259	30	Pass

-6dB Bandwidth

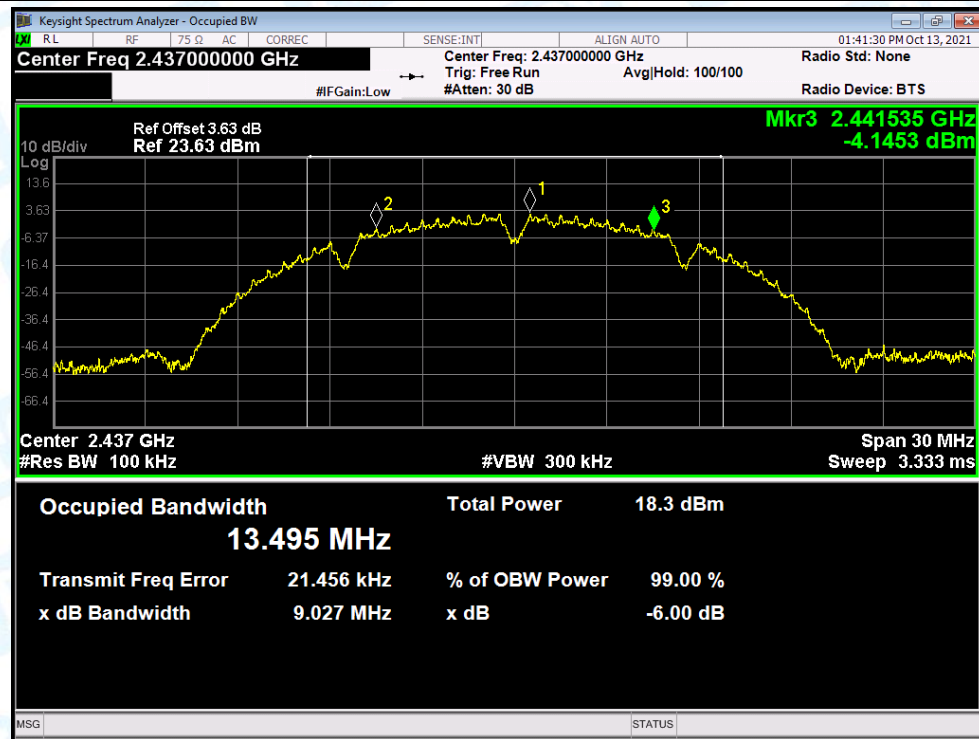
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.048	0.5	Pass
NVNT	b	2437	Ant1	9.027	0.5	Pass
NVNT	b	2462	Ant1	9.028	0.5	Pass
NVNT	g	2412	Ant1	16.55	0.5	Pass
NVNT	g	2437	Ant1	16.56	0.5	Pass
NVNT	g	2462	Ant1	16.58	0.5	Pass
NVNT	n(HT20)	2412	Ant1	17.79	0.5	Pass
NVNT	n(HT20)	2437	Ant1	17.77	0.5	Pass
NVNT	n(HT20)	2462	Ant1	17.78	0.5	Pass
NVNT	n(HT40)	2422	Ant1	36.48	0.5	Pass
NVNT	n(HT40)	2437	Ant1	36.51	0.5	Pass
NVNT	n(HT40)	2452	Ant1	36.49	0.5	Pass

Test Graphs

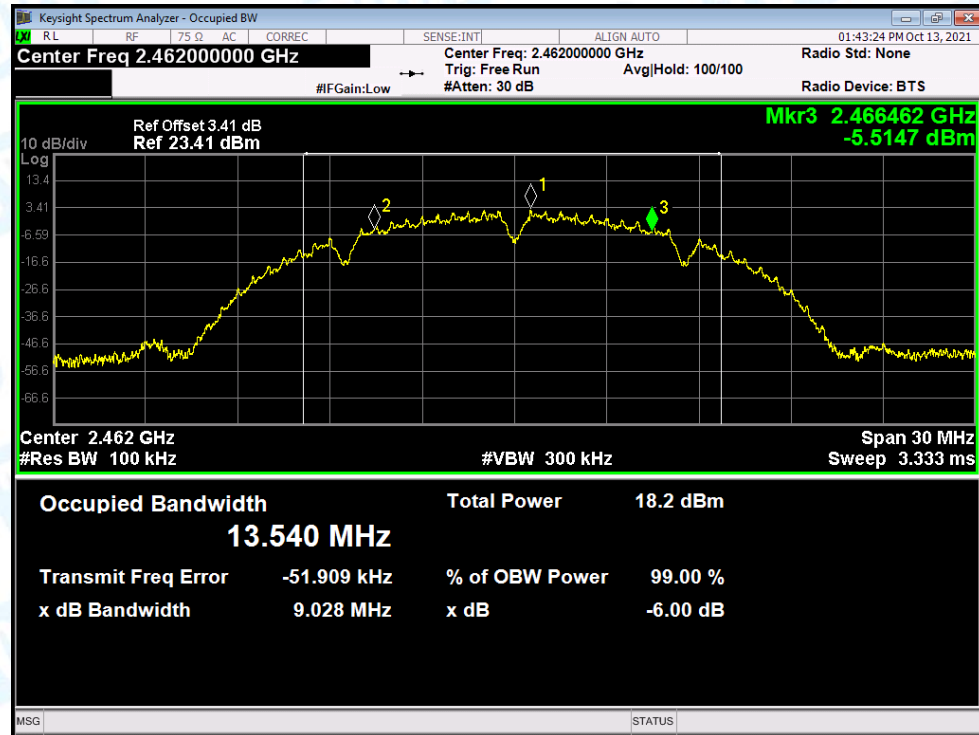
-6dB Bandwidth NVNT b 2412MHz Ant1



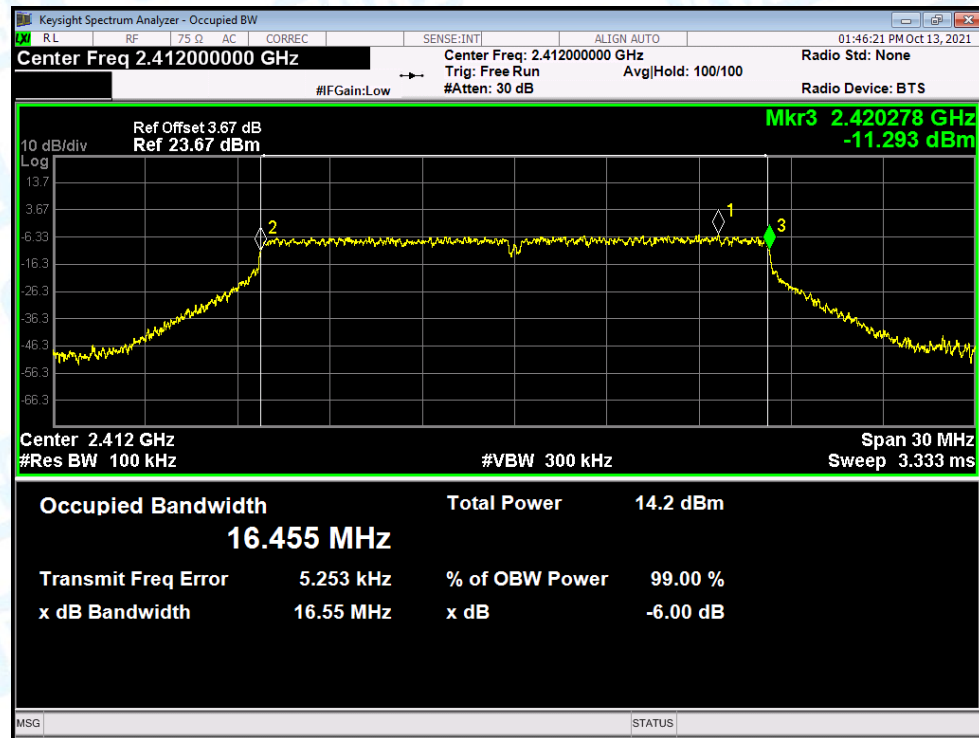
-6dB Bandwidth NVNT b 2437MHz Ant1



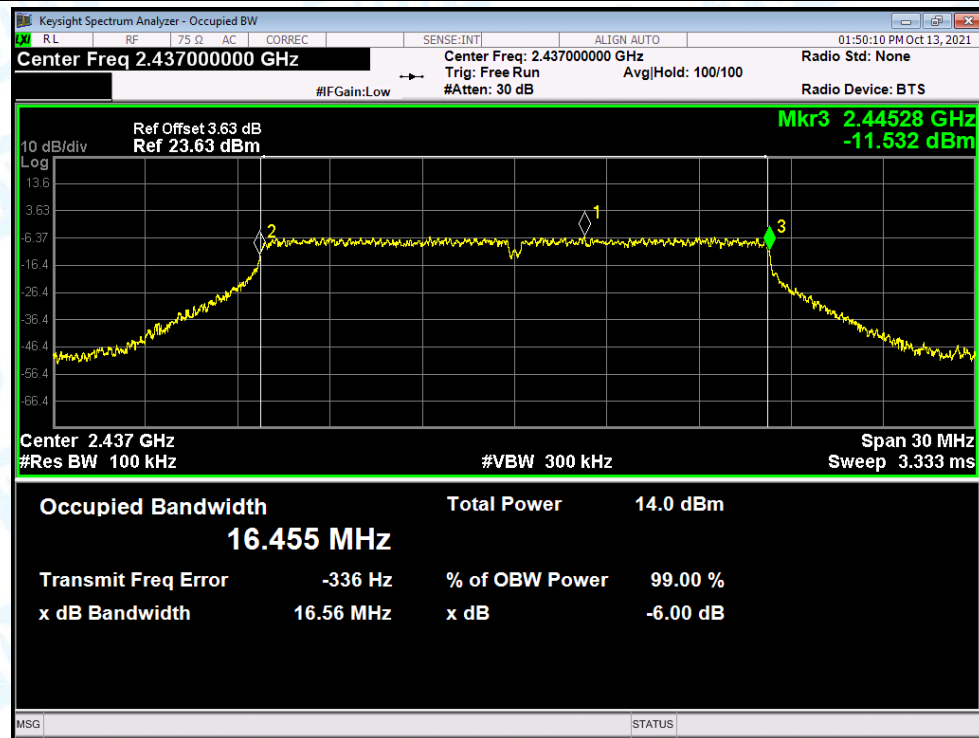
-6dB Bandwidth NVNT b 2462MHz Ant1



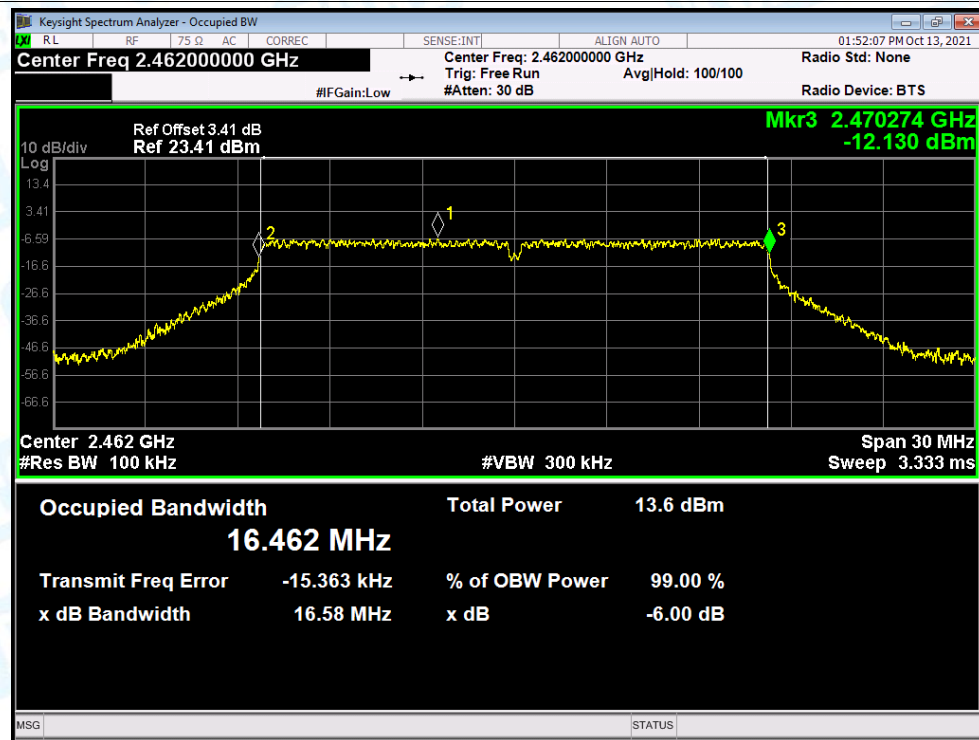
-6dB Bandwidth NVNT g 2412MHz Ant1



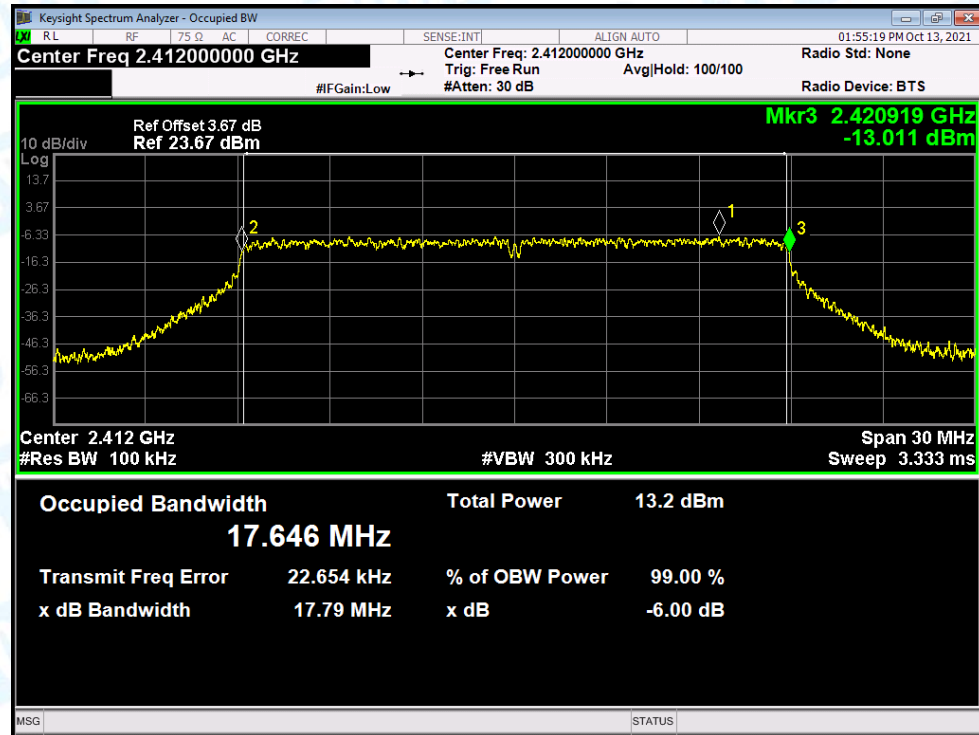
-6dB Bandwidth NVNT g 2437MHz Ant1



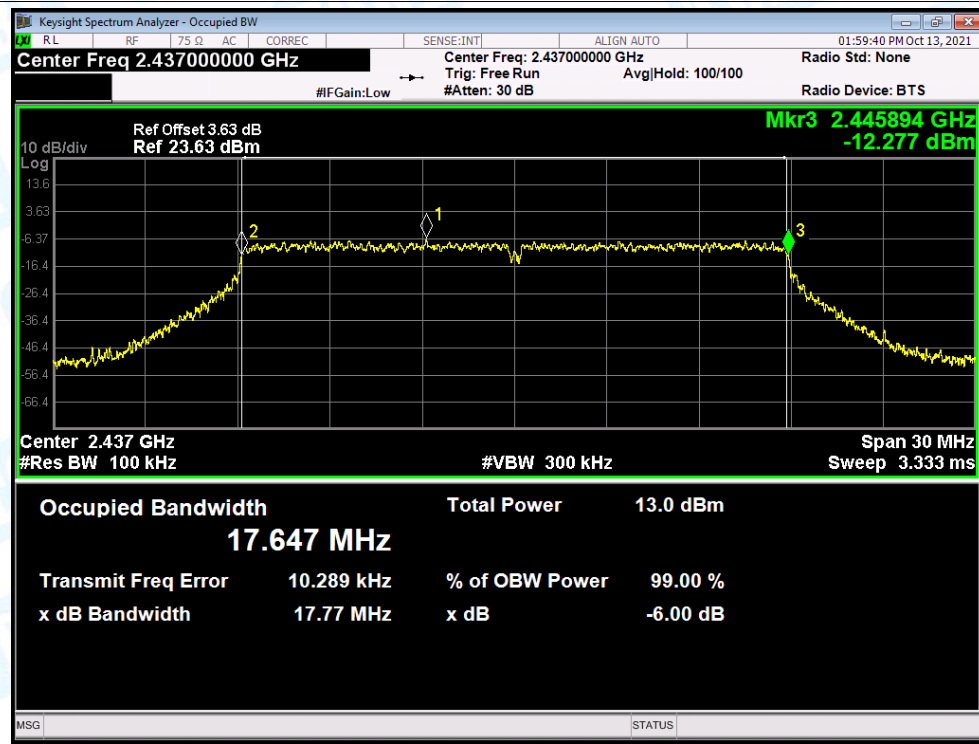
-6dB Bandwidth NVNT g 2462MHz Ant1



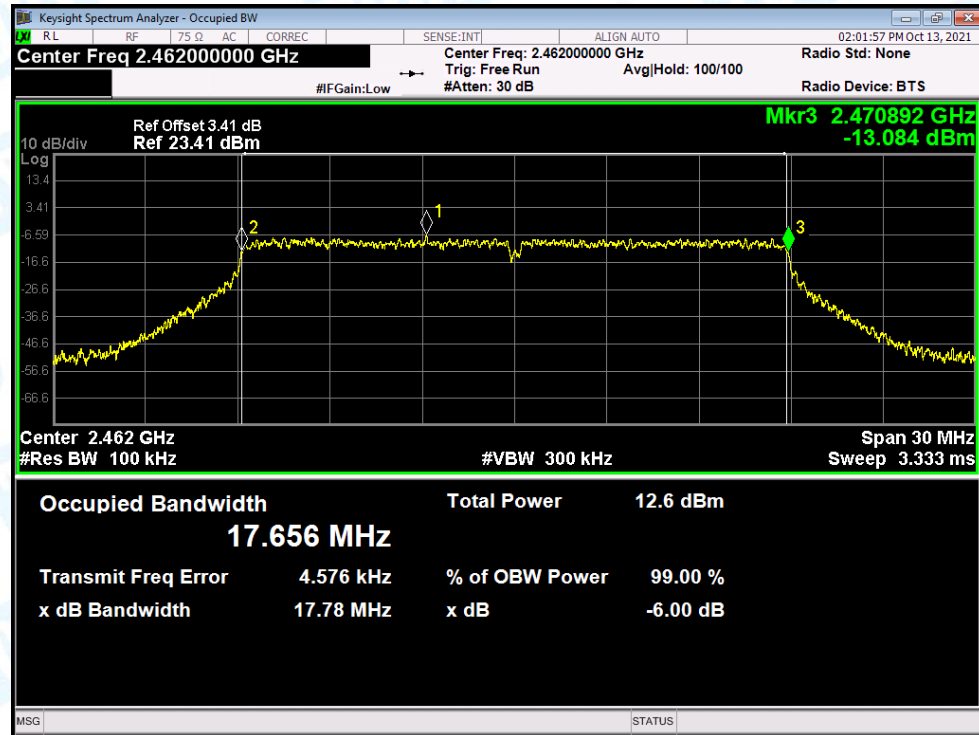
-6dB Bandwidth NVNT n(HT20) 2412MHz Ant1



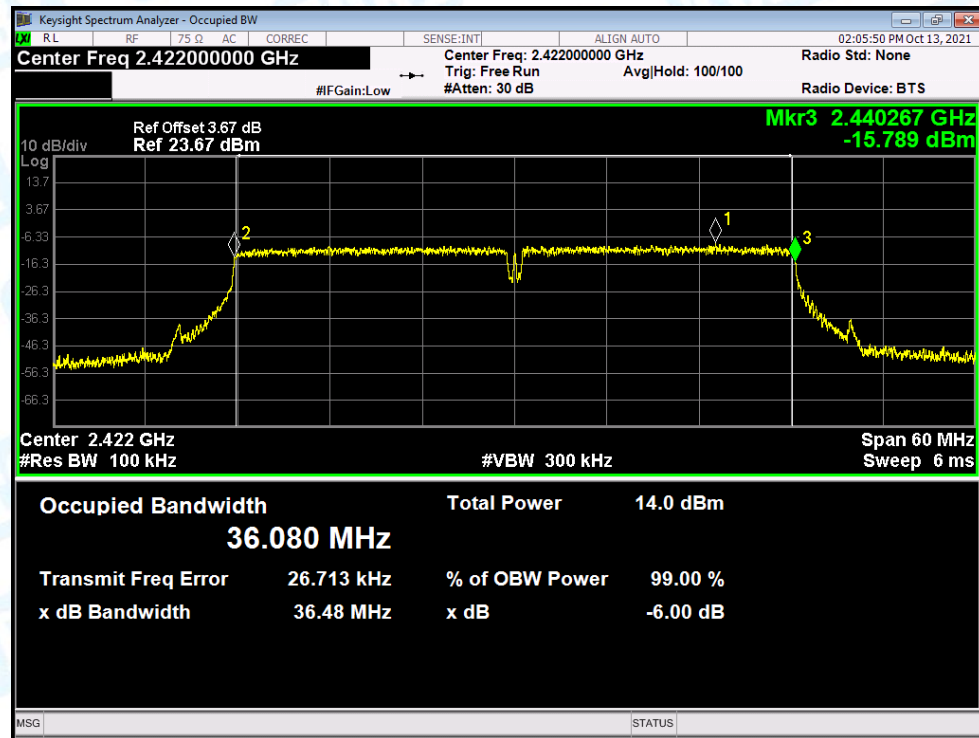
-6dB Bandwidth NVNT n(HT20) 2437MHz Ant1



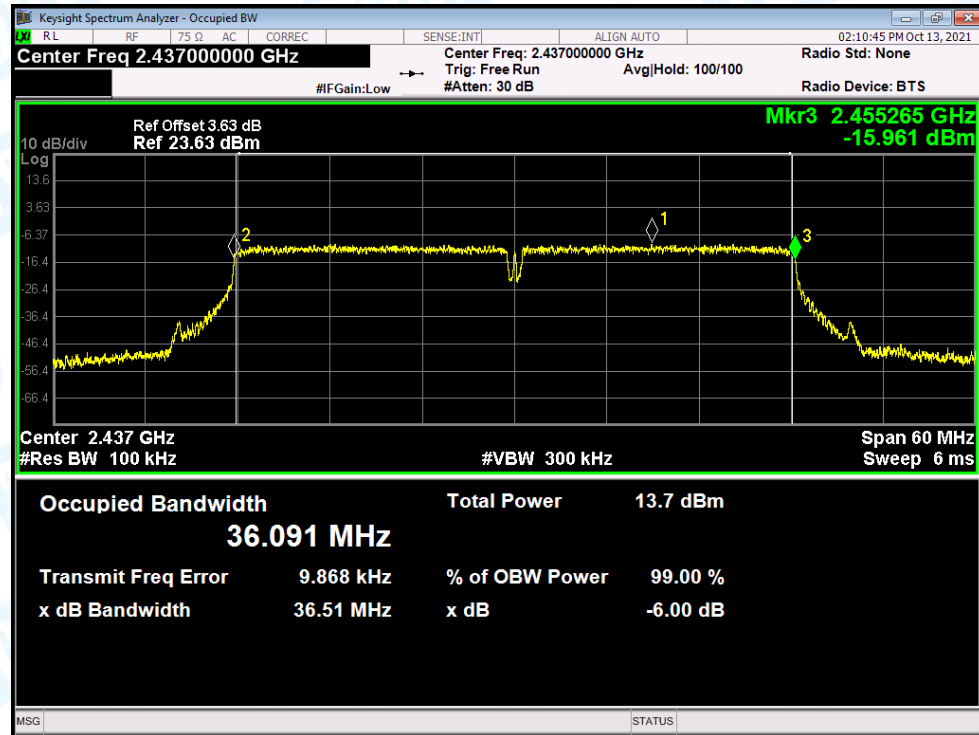
-6dB Bandwidth NVNT n(HT20) 2462MHz Ant1



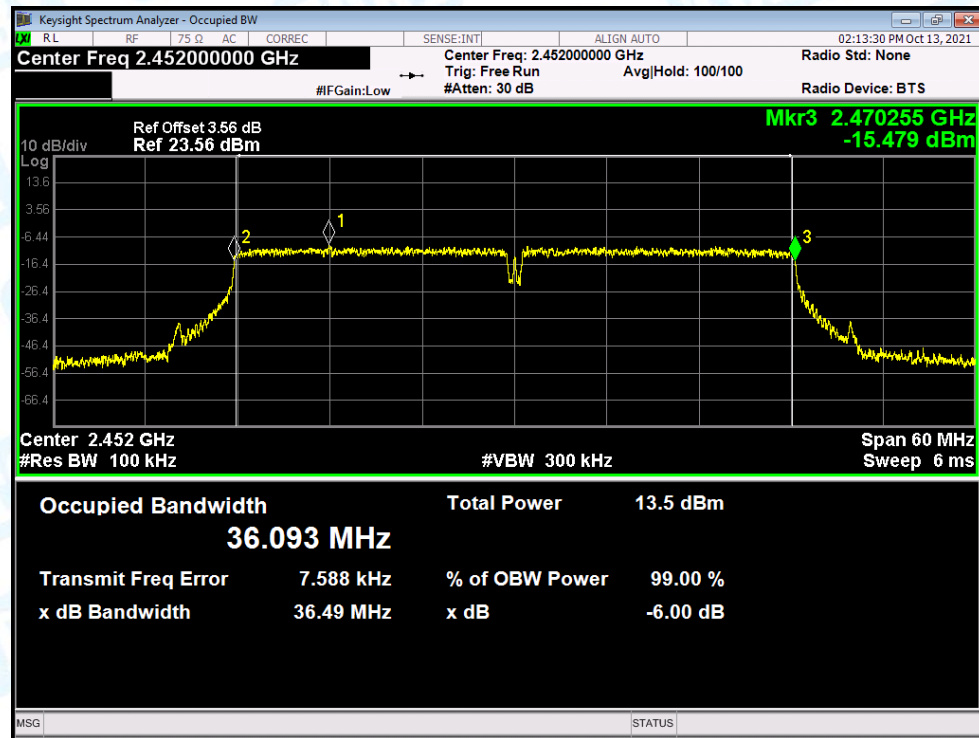
-6dB Bandwidth NVNT n(HT40) 2422MHz Ant1



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



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

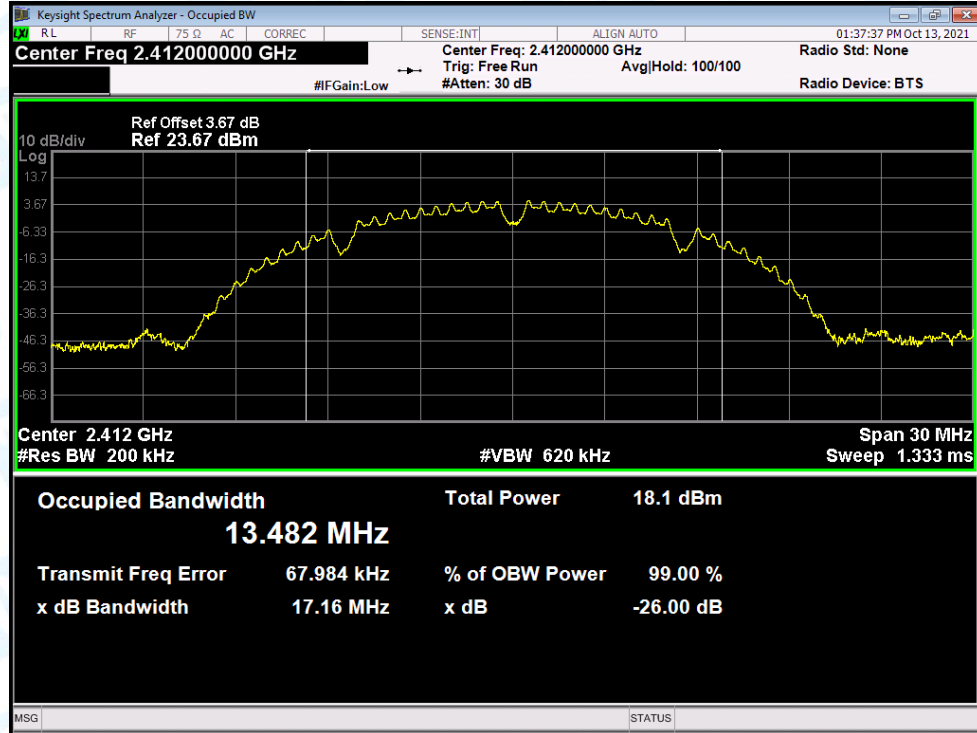


Occupied Channel Bandwidth

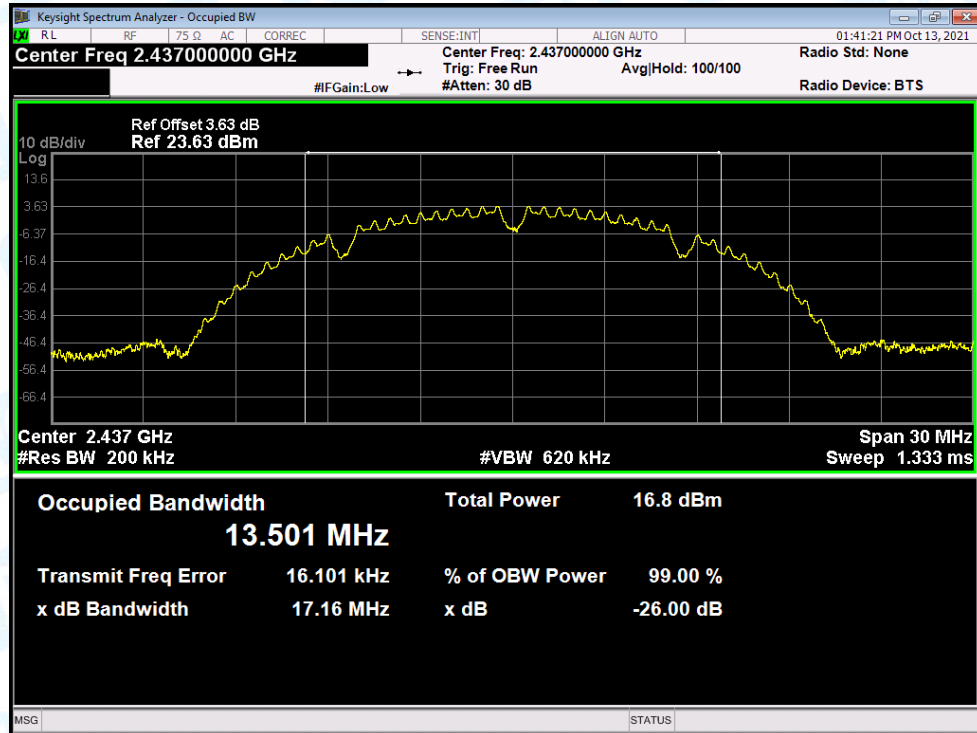
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	13.482
NVNT	b	2437	Ant1	13.501
NVNT	b	2462	Ant1	13.529
NVNT	g	2412	Ant1	16.551
NVNT	g	2437	Ant1	16.589
NVNT	g	2462	Ant1	16.618
NVNT	n(HT20)	2412	Ant1	17.710
NVNT	n(HT20)	2437	Ant1	17.716
NVNT	n(HT20)	2462	Ant1	17.727
NVNT	n(HT40)	2422	Ant1	36.209
NVNT	n(HT40)	2437	Ant1	36.272
NVNT	n(HT40)	2452	Ant1	36.303

Test Graphs

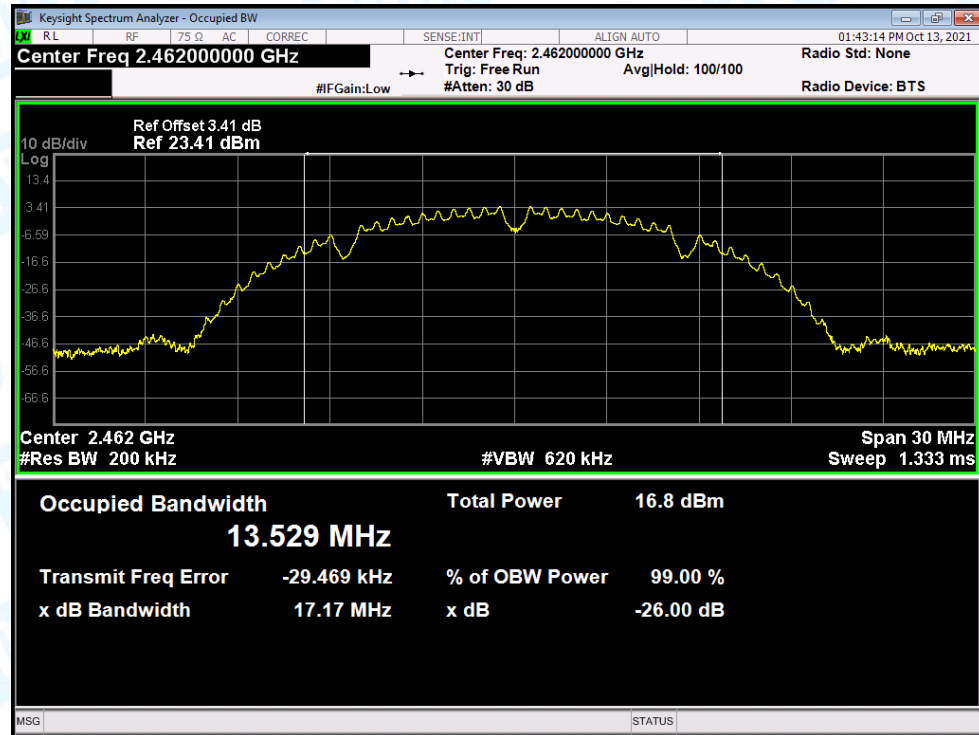
OBW NVNT b 2412MHz Ant1



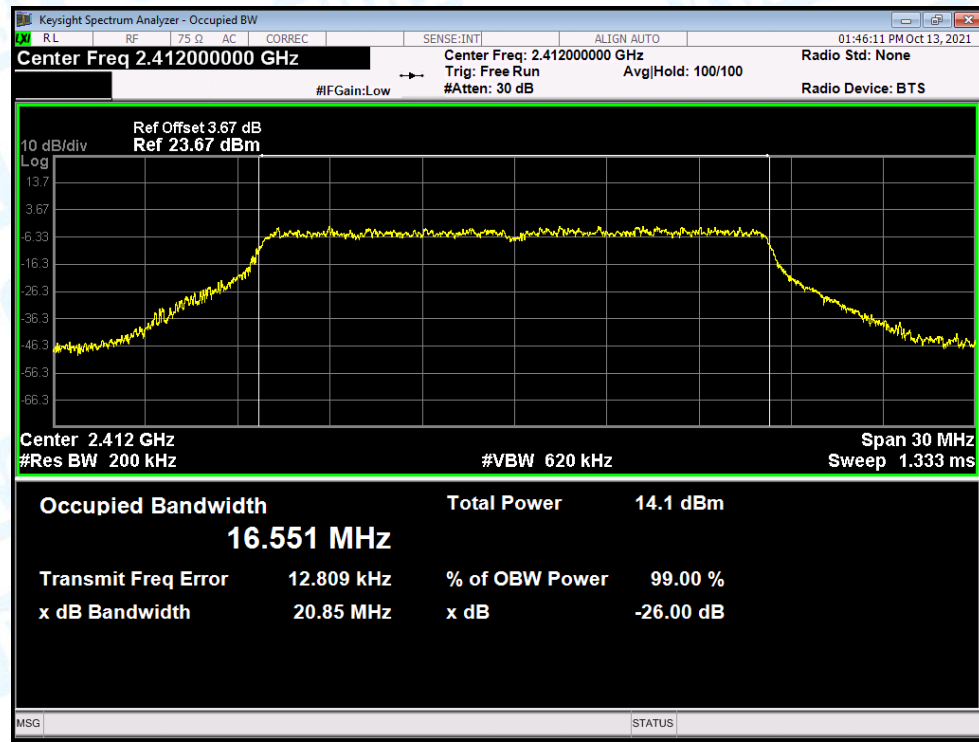
OBW NVNT b 2437MHz Ant1



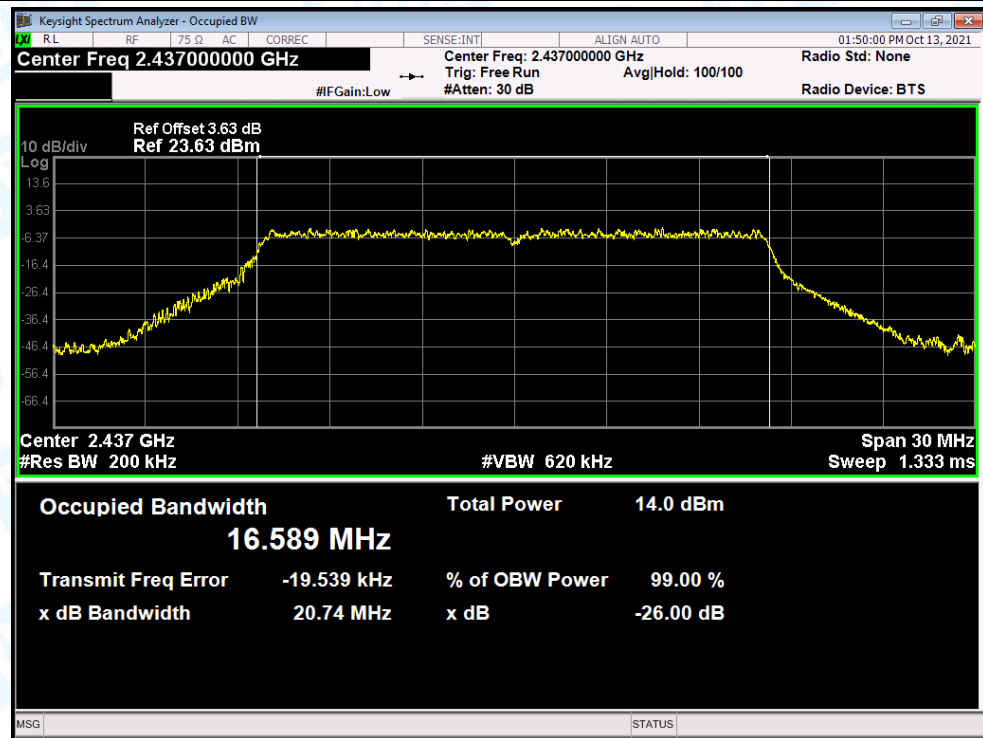
OBW NVNT b 2462MHz Ant1



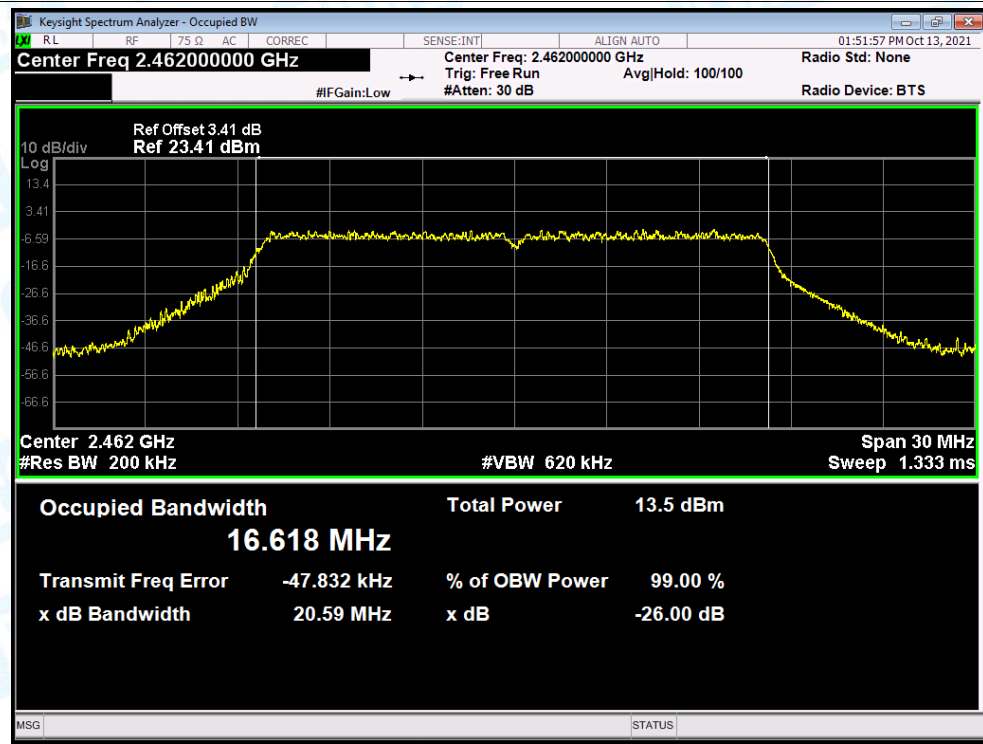
OBW NVNT g 2412MHz Ant1



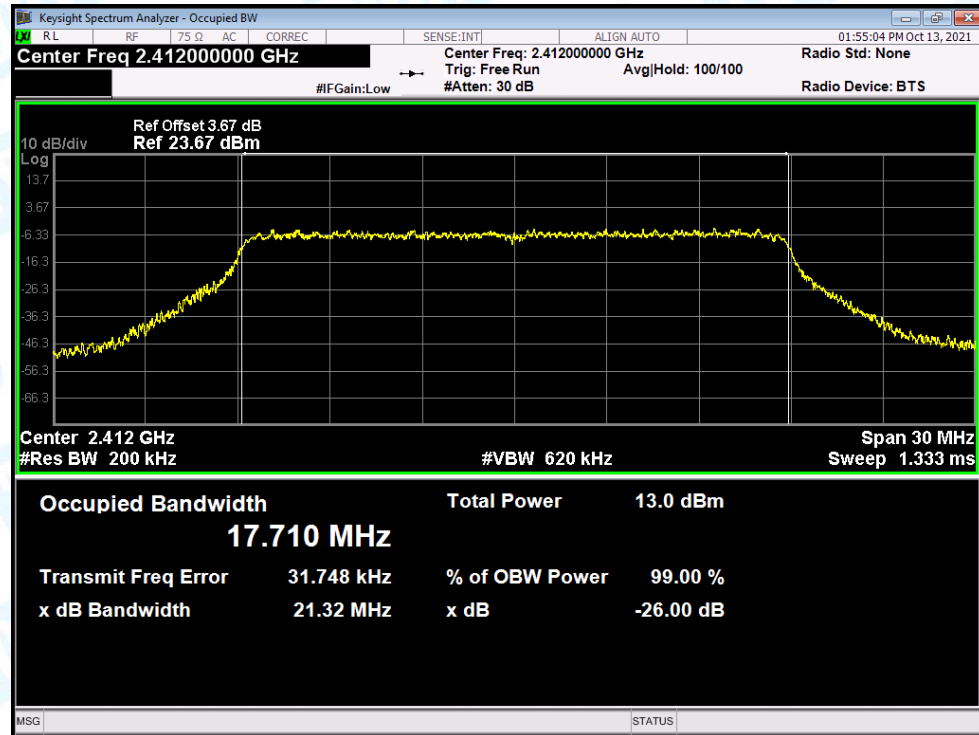
OBW NVNT g 2437MHz Ant1



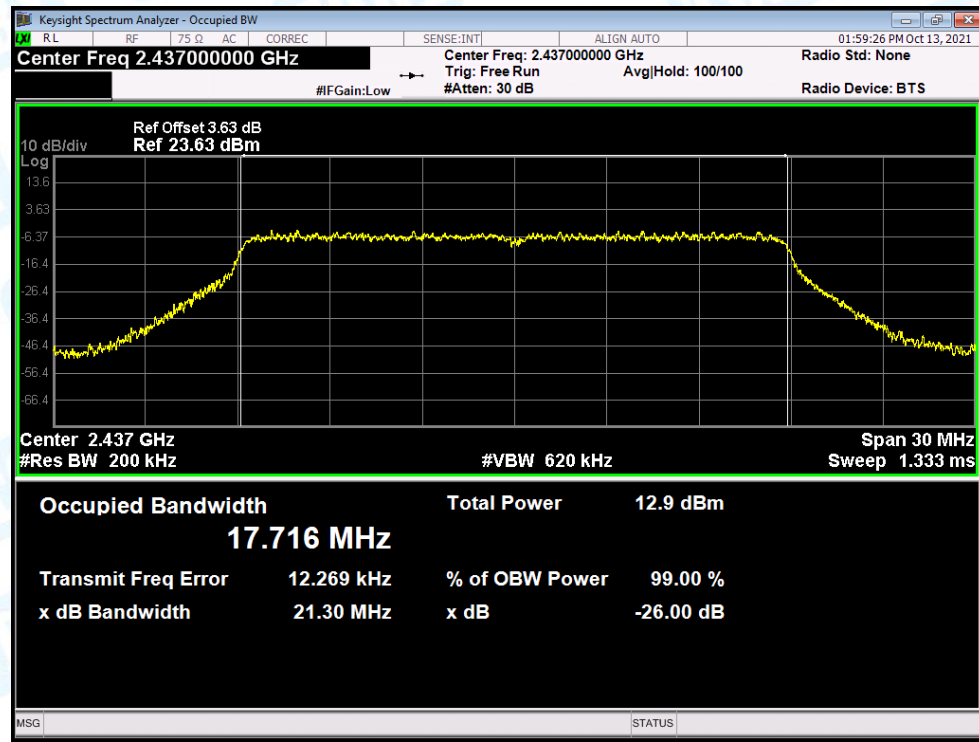
OBW NVNT g 2462MHz Ant1



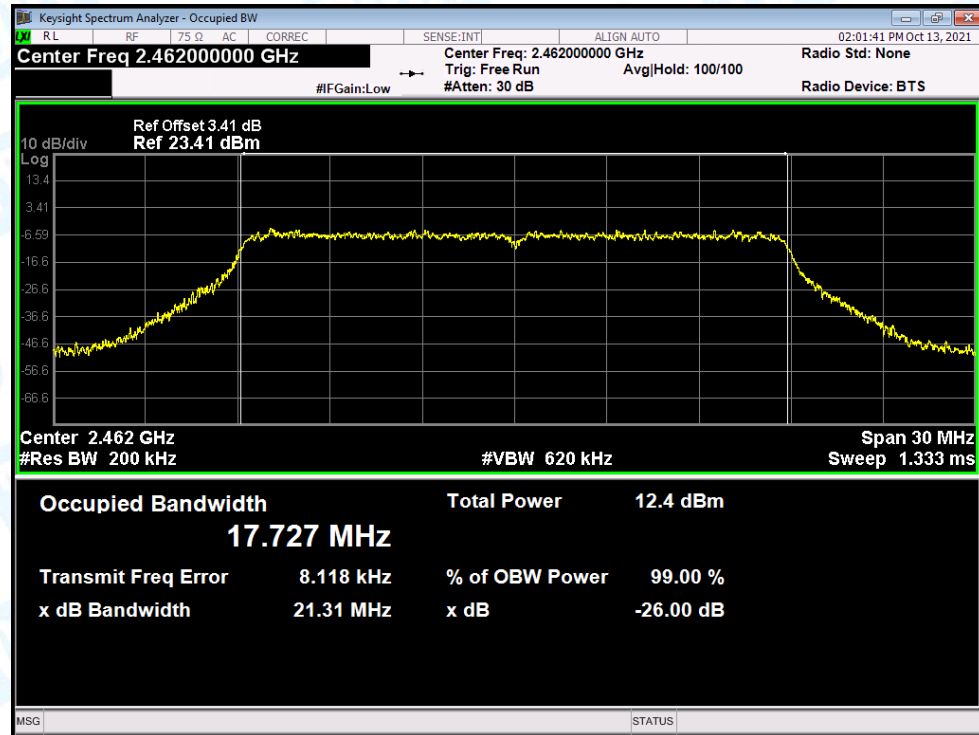
OBW NVNT n(HT20) 2412MHz Ant1



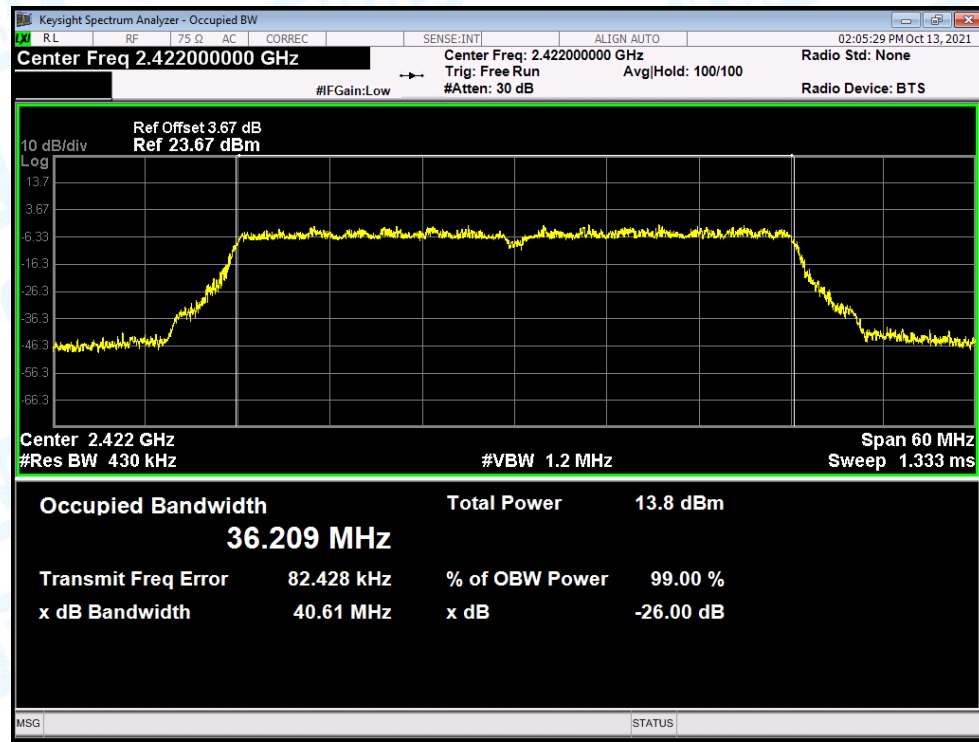
OBW NVNT n(HT20) 2437MHz Ant1



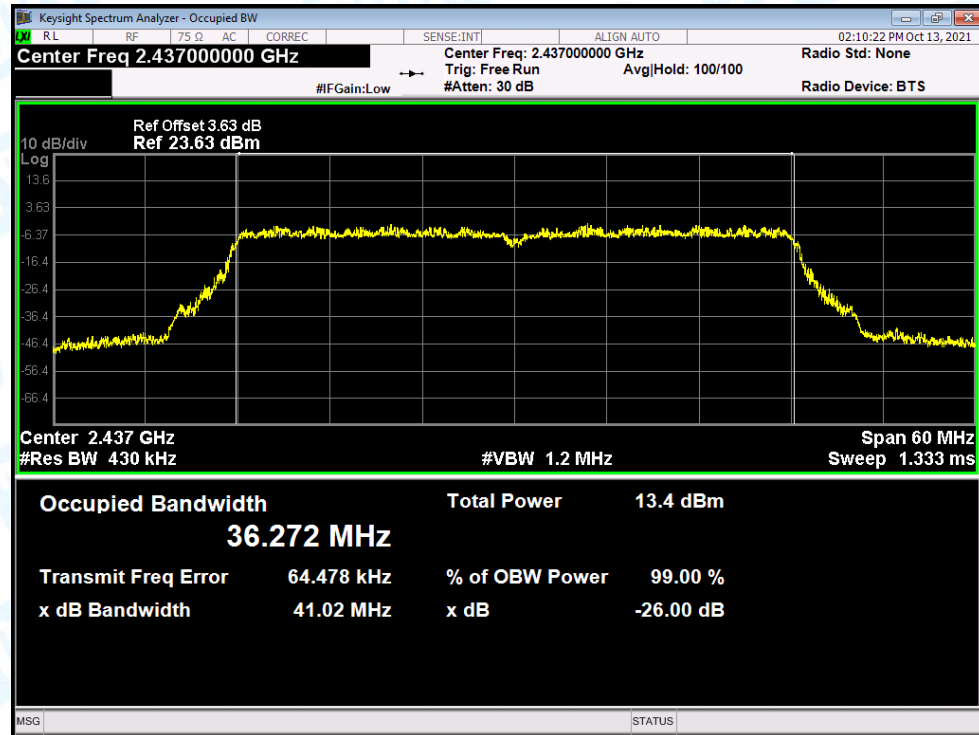
OBW NVNT n(HT20) 2462MHz Ant1



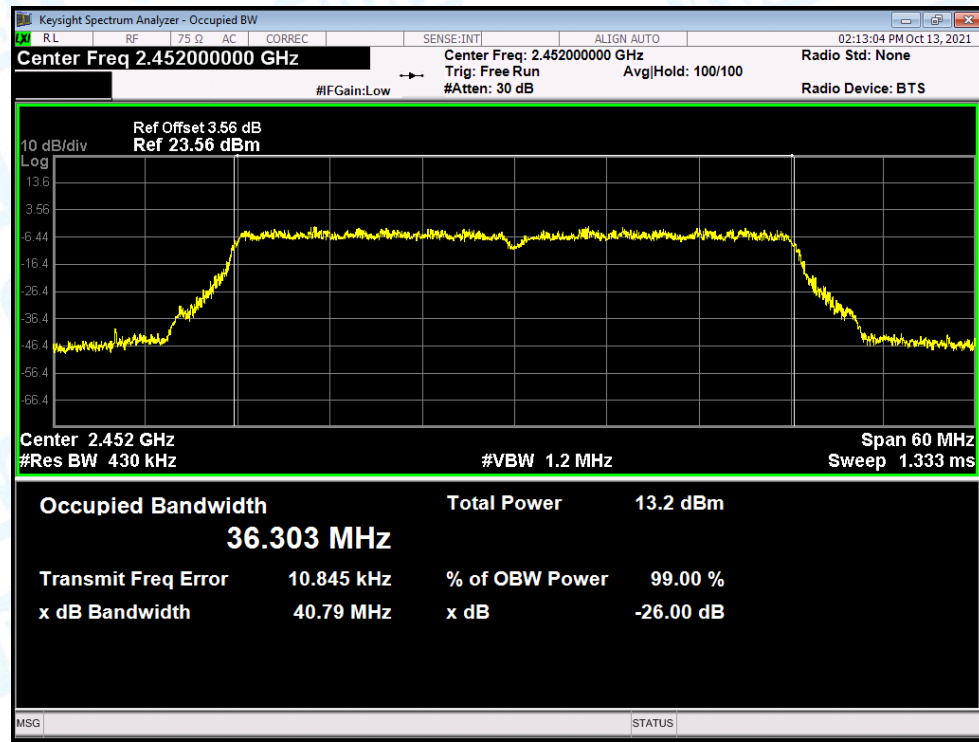
OBW NVNT n(HT40) 2422MHz Ant1



OBW NVNT n(HT40) 2437MHz Ant1

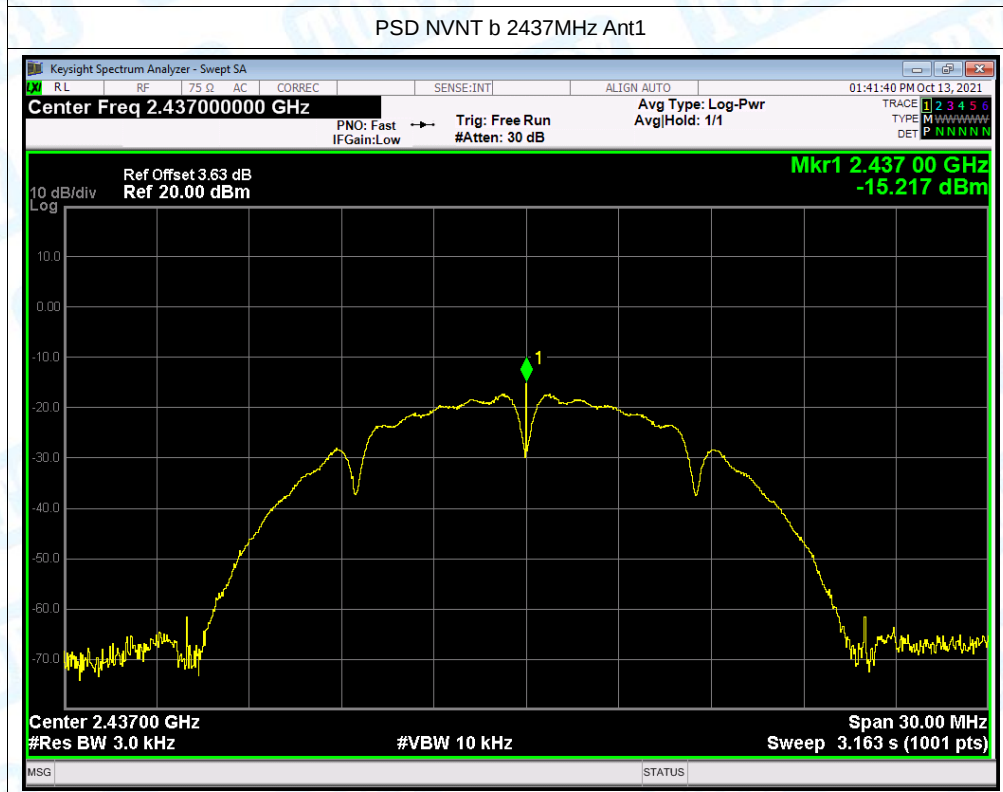
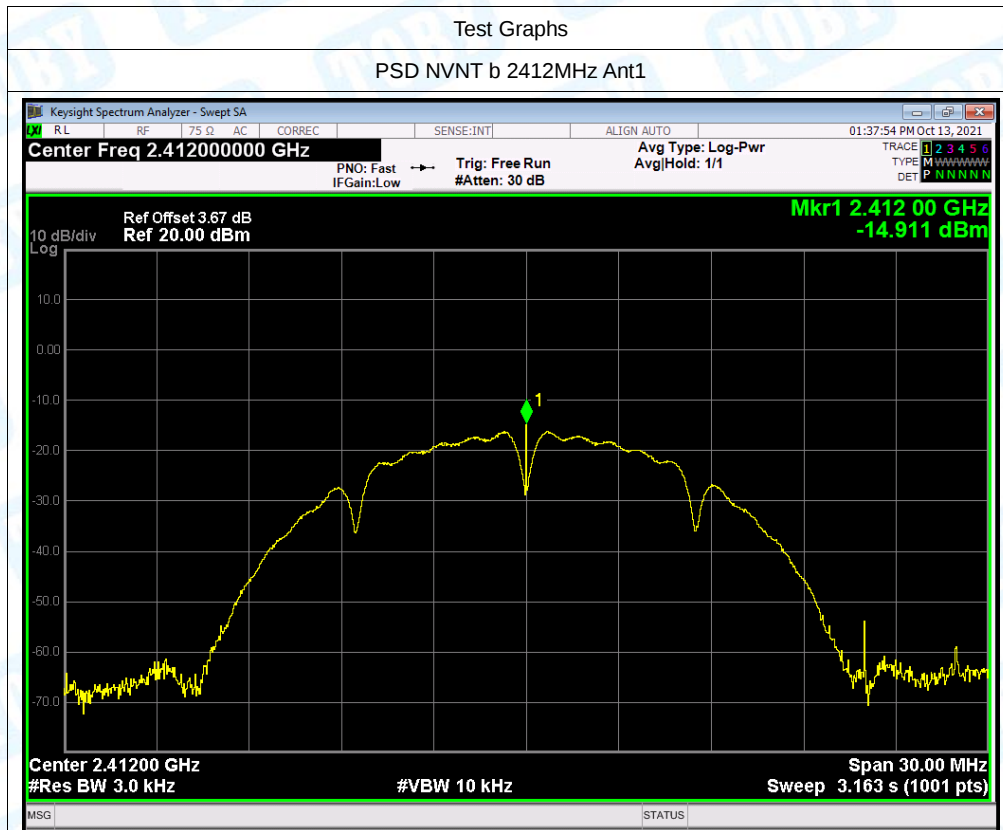


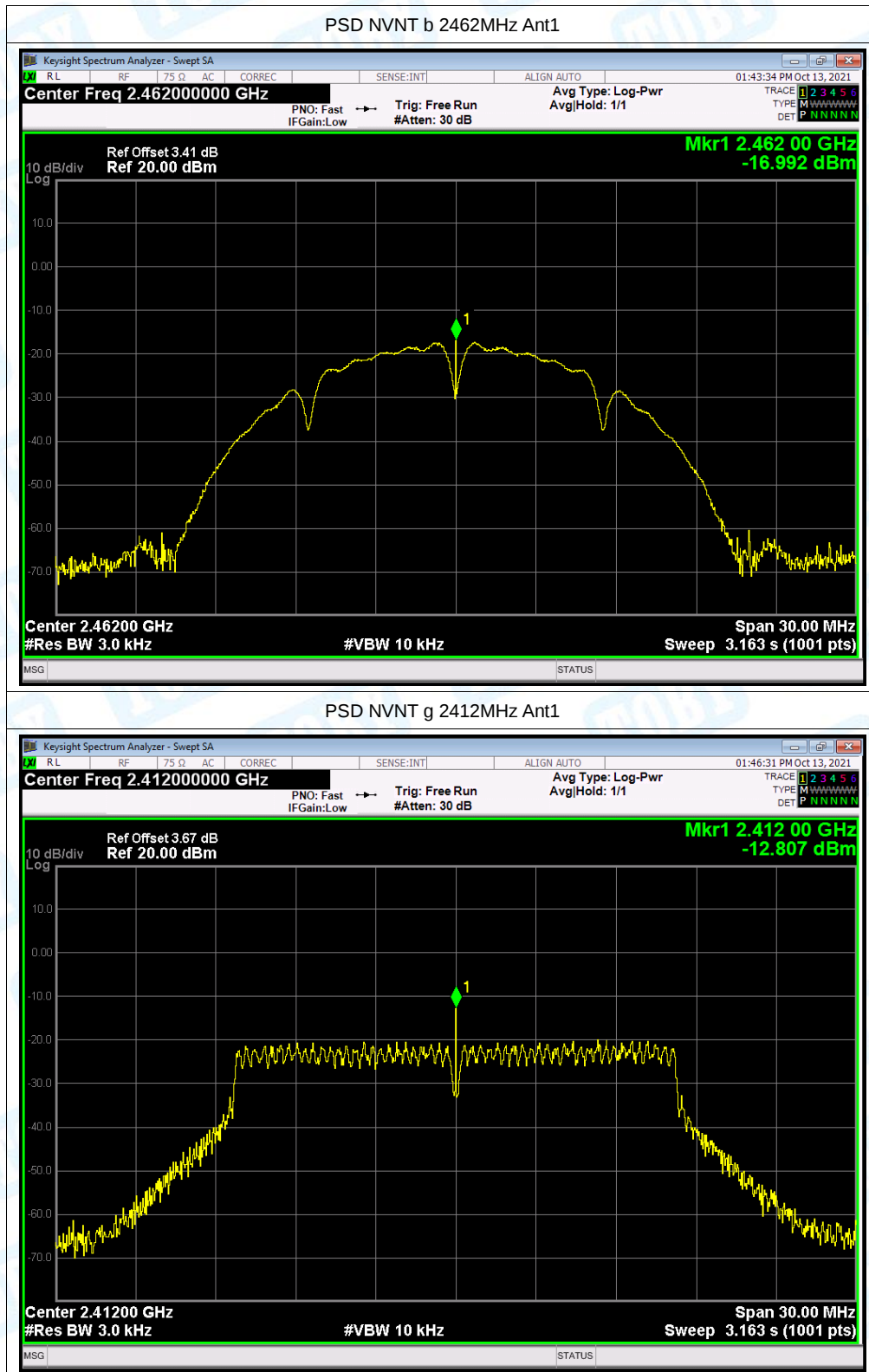
OBW NVNT n(HT40) 2452MHz Ant1

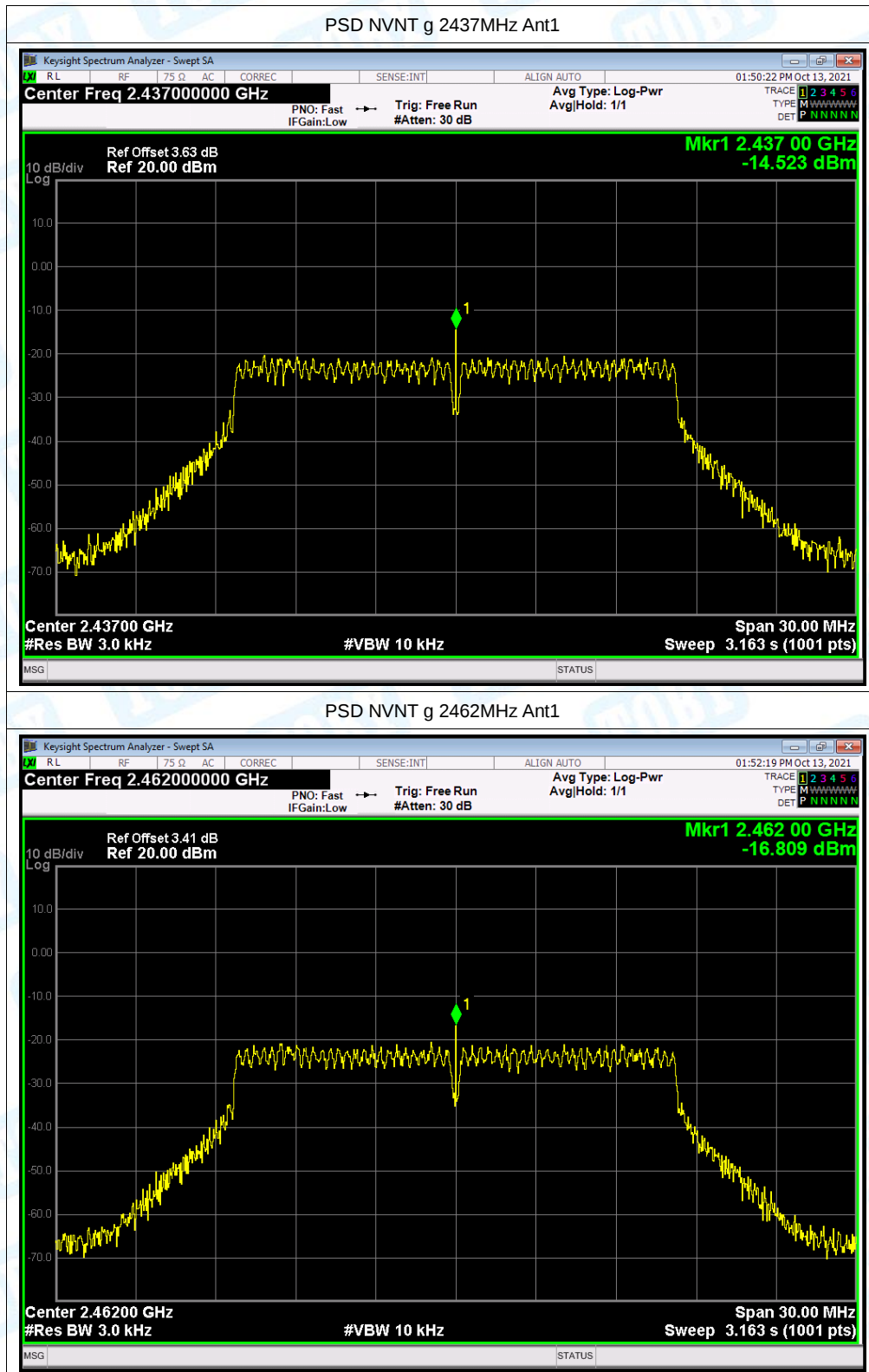


Maximum Power Spectral Density Level

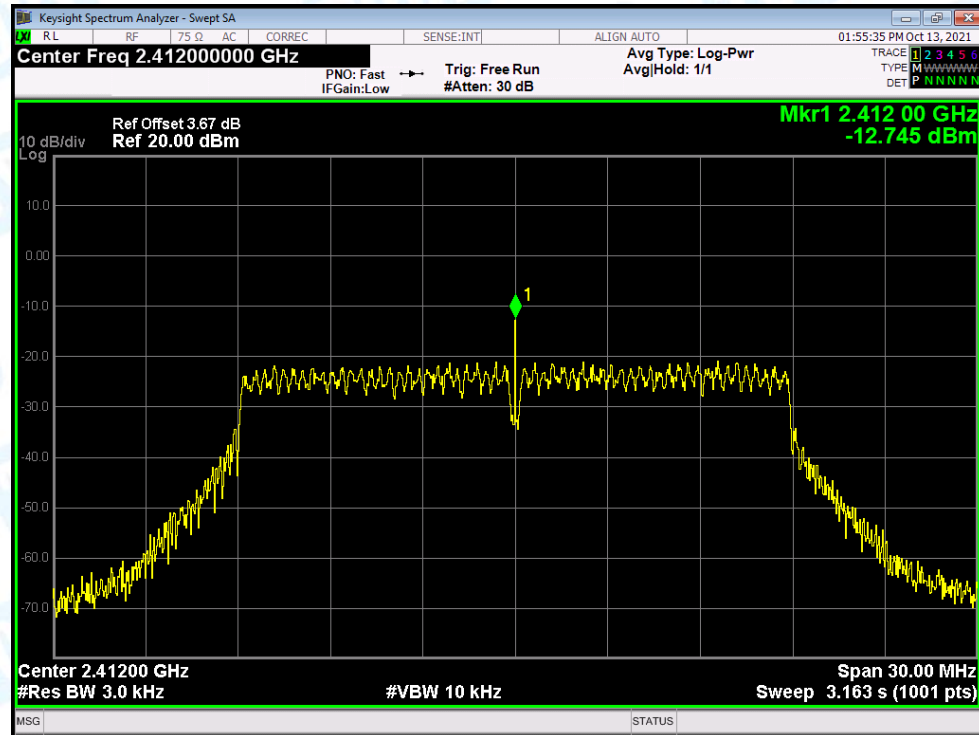
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-14.911	8	Pass
NVNT	b	2437	Ant1	-15.217	8	Pass
NVNT	b	2462	Ant1	-16.992	8	Pass
NVNT	g	2412	Ant1	-12.807	8	Pass
NVNT	g	2437	Ant1	-14.523	8	Pass
NVNT	g	2462	Ant1	-16.809	8	Pass
NVNT	n(HT20)	2412	Ant1	-12.745	8	Pass
NVNT	n(HT20)	2437	Ant1	-14.499	8	Pass
NVNT	n(HT20)	2462	Ant1	-16.66	8	Pass
NVNT	n(HT40)	2422	Ant1	-13.425	8	Pass
NVNT	n(HT40)	2437	Ant1	-14.377	8	Pass
NVNT	n(HT40)	2452	Ant1	-15.535	8	Pass



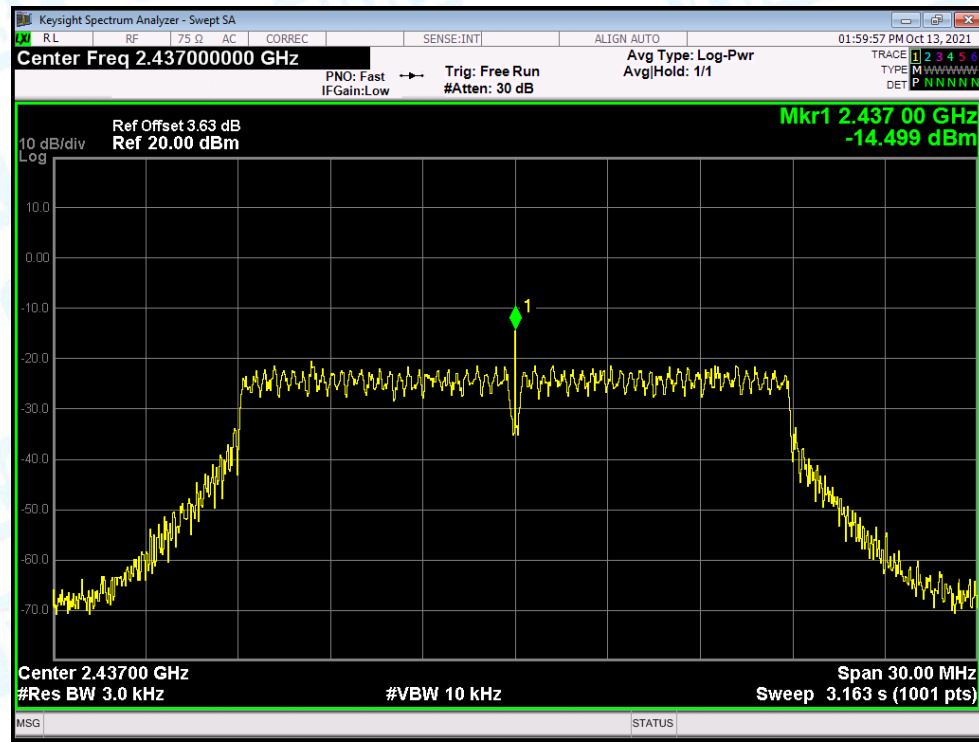




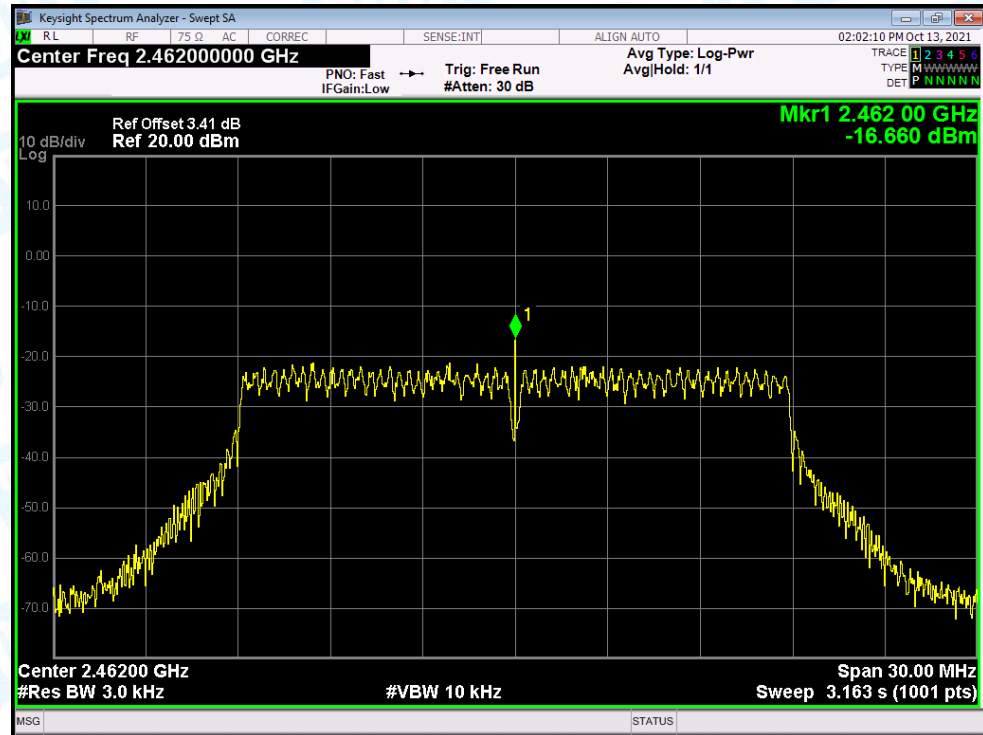
PSD NVNT n(HT20) 2412MHz Ant1



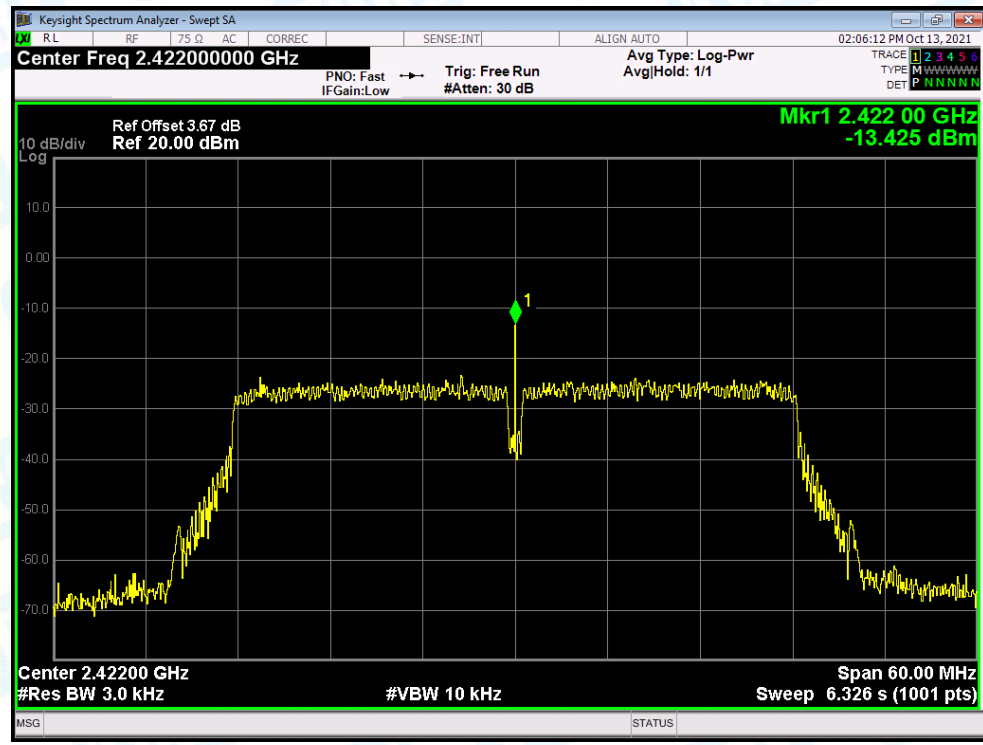
PSD NVNT n(HT20) 2437MHz Ant1



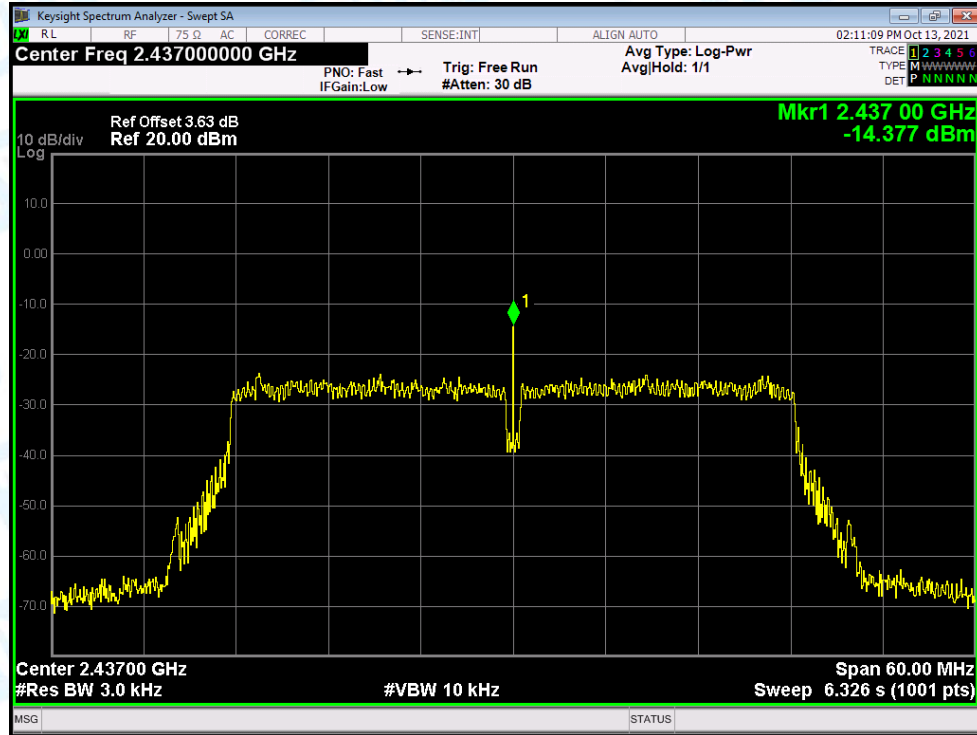
PSD NVNT n(HT20) 2462MHz Ant1



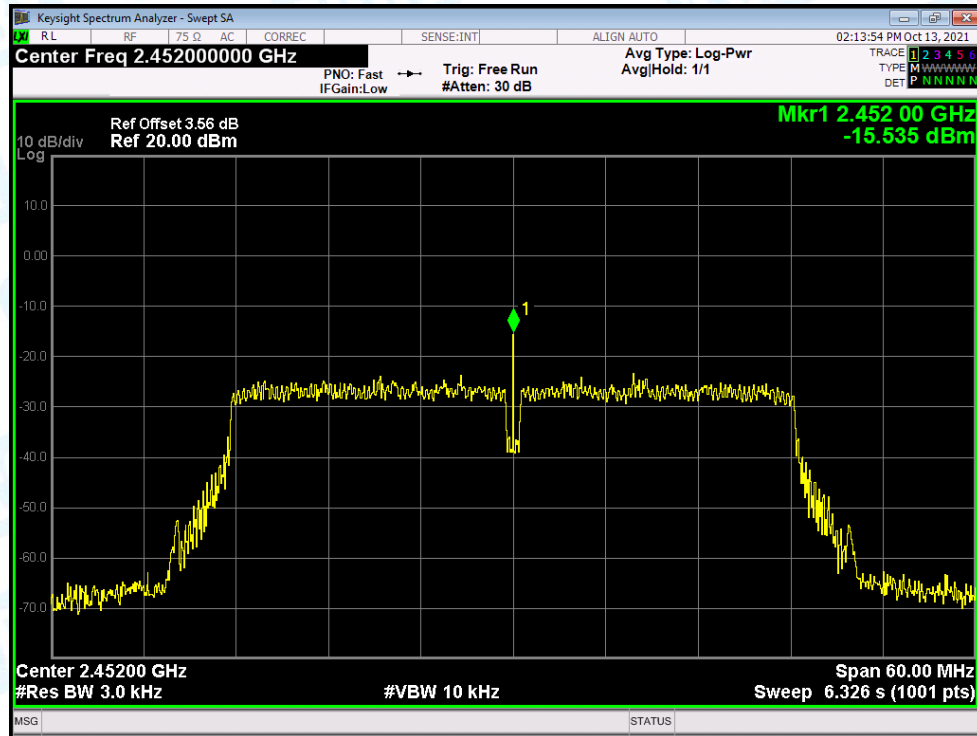
PSD NVNT n(HT40) 2422MHz Ant1



PSD NVNT n(HT40) 2437MHz Ant1

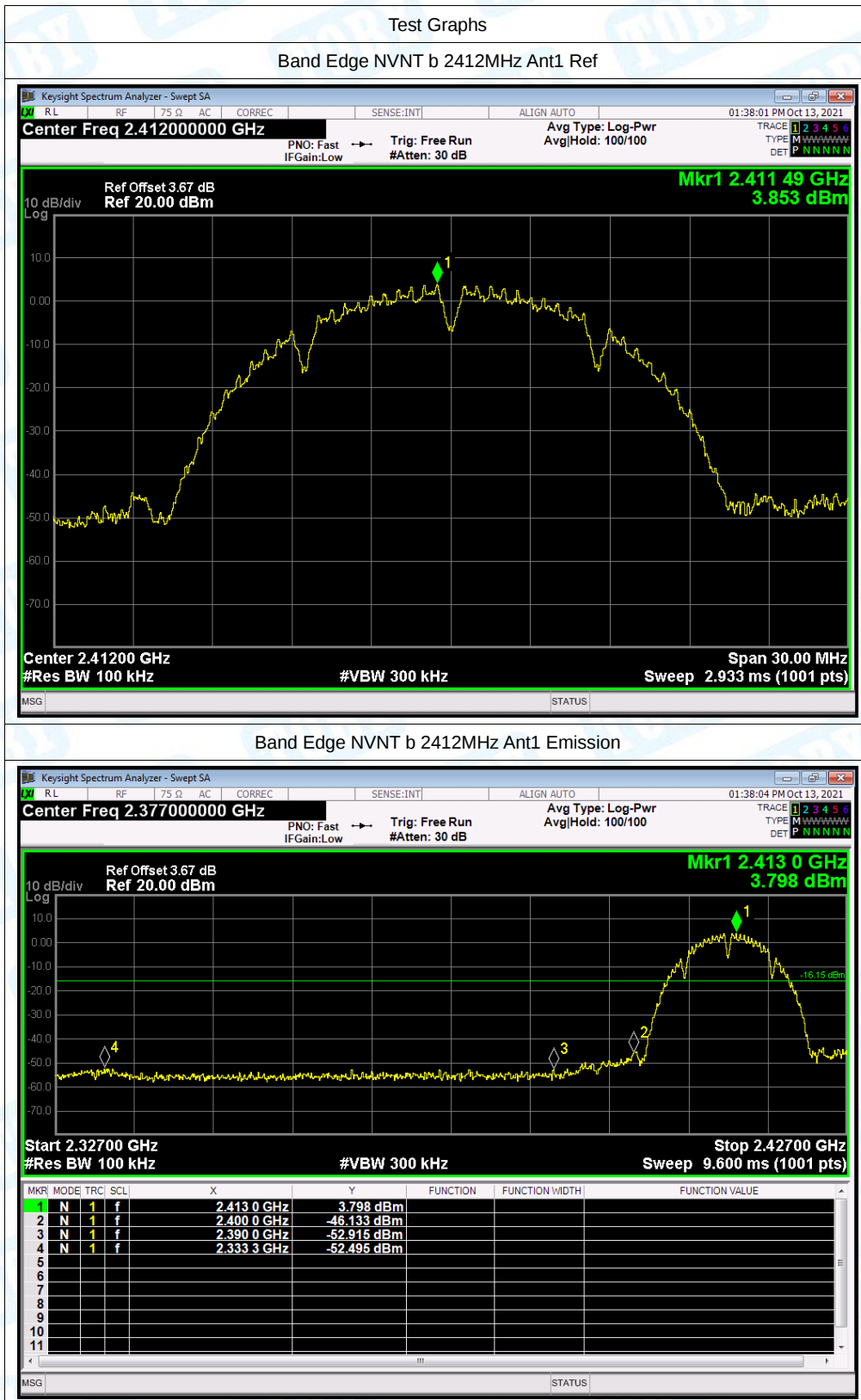


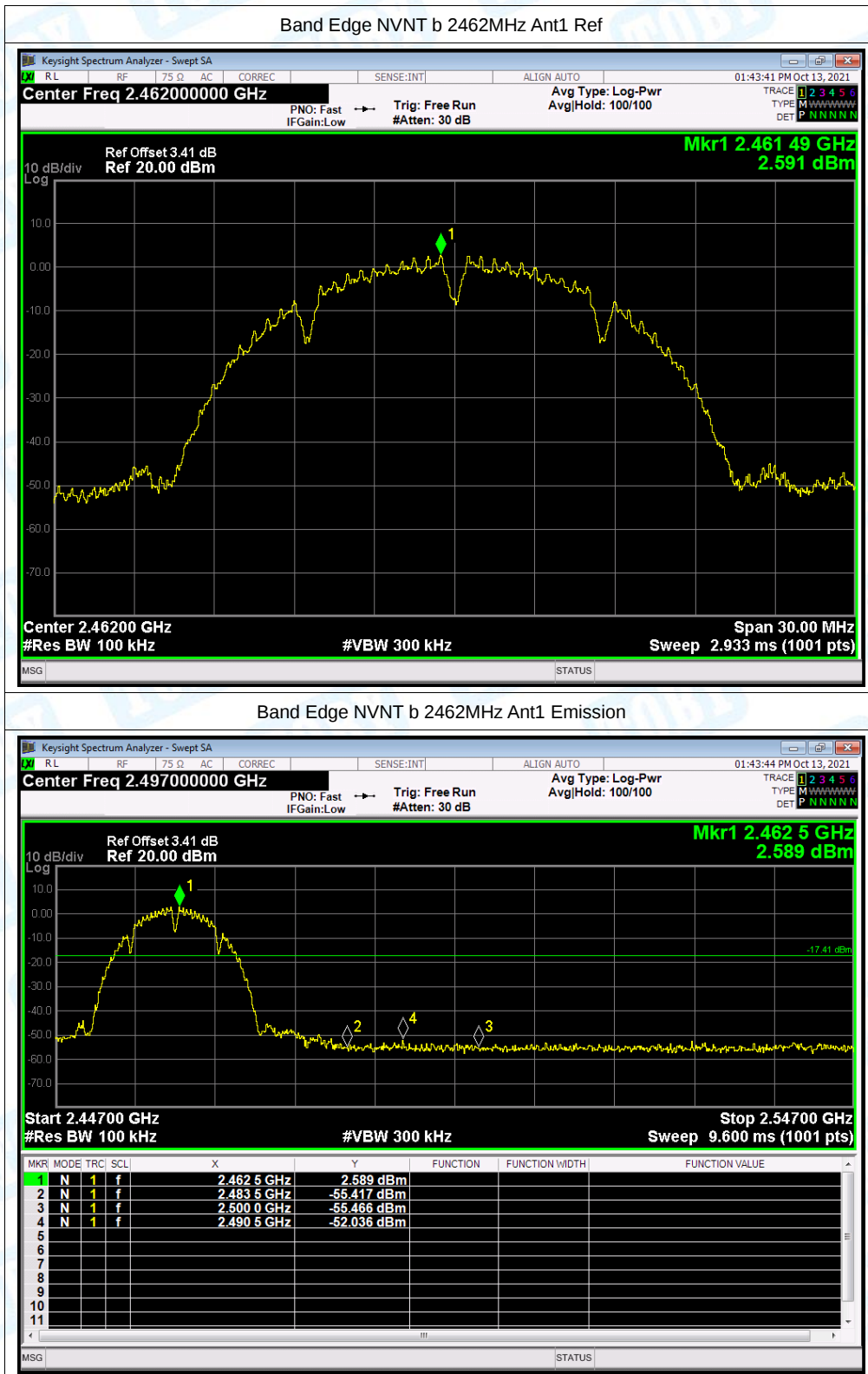
PSD NVNT n(HT40) 2452MHz Ant1



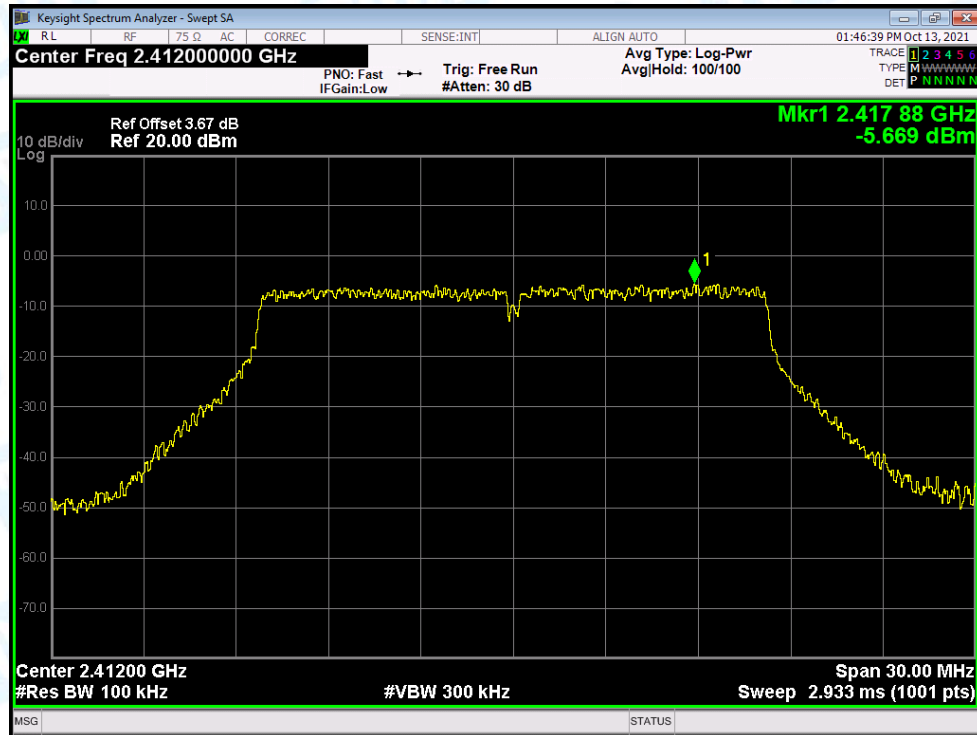
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-56.34	-20	Pass
NVNT	b	2462	Ant1	-54.62	-20	Pass
NVNT	g	2412	Ant1	-46.37	-20	Pass
NVNT	g	2462	Ant1	-46.31	-20	Pass
NVNT	n(HT20)	2412	Ant1	-45.66	-20	Pass
NVNT	n(HT20)	2462	Ant1	-45.5	-20	Pass
NVNT	n(HT40)	2422	Ant1	-41.97	-20	Pass
NVNT	n(HT40)	2452	Ant1	-40.87	-20	Pass

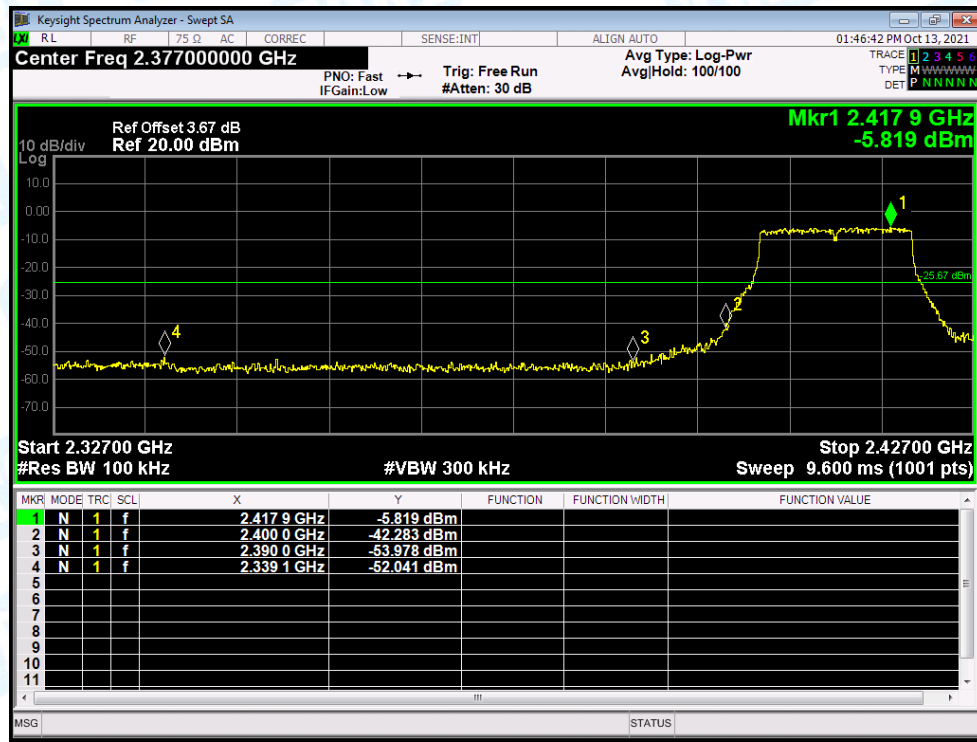


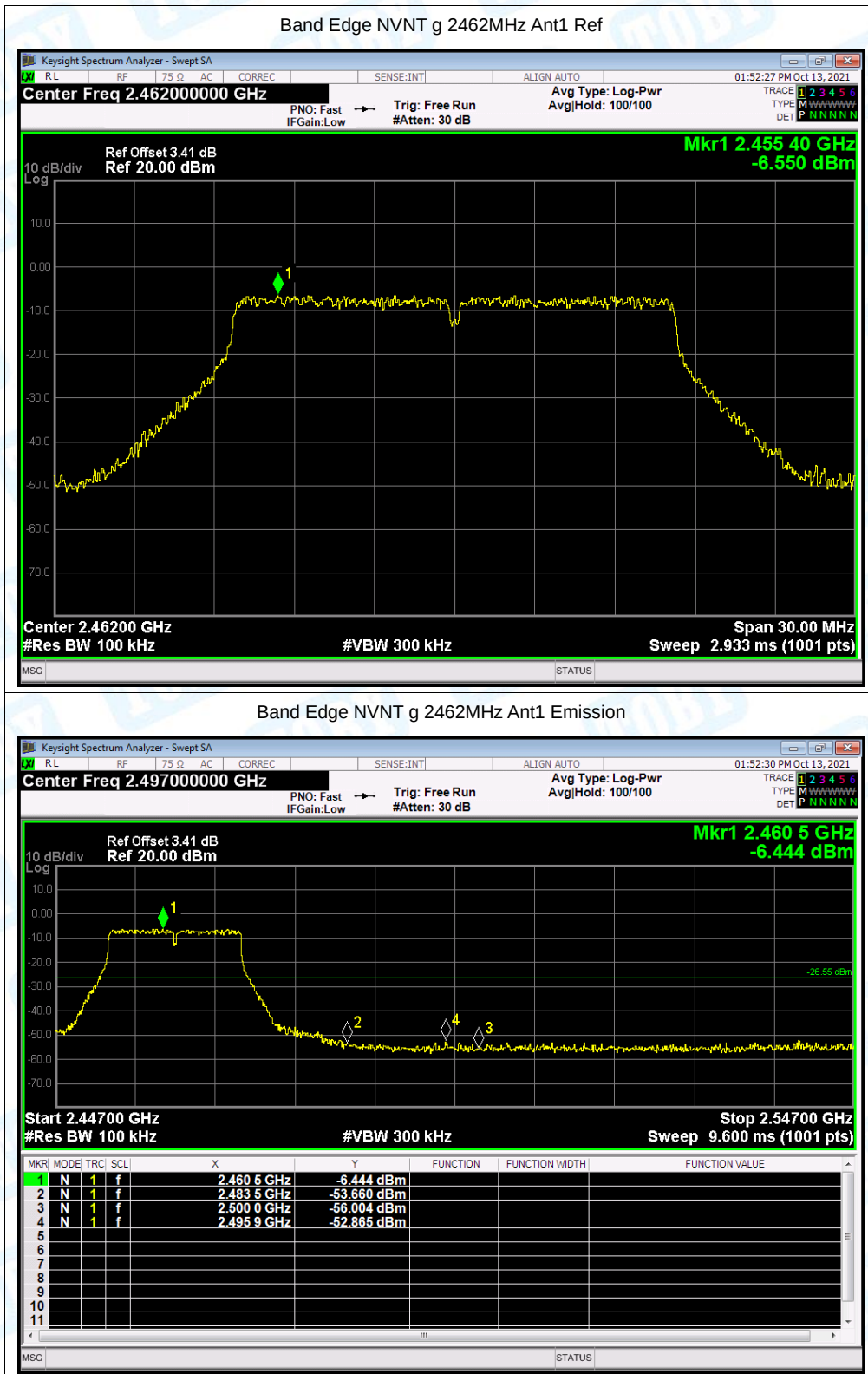


Band Edge NVNT g 2412MHz Ant1 Ref

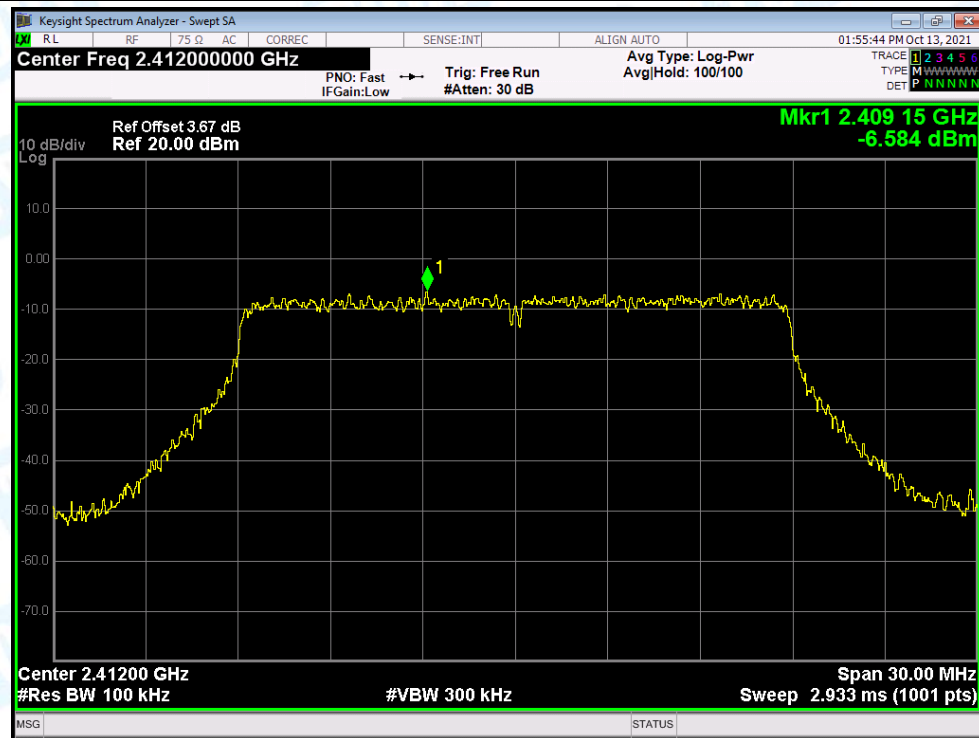


Band Edge NVNT g 2412MHz Ant1 Emission

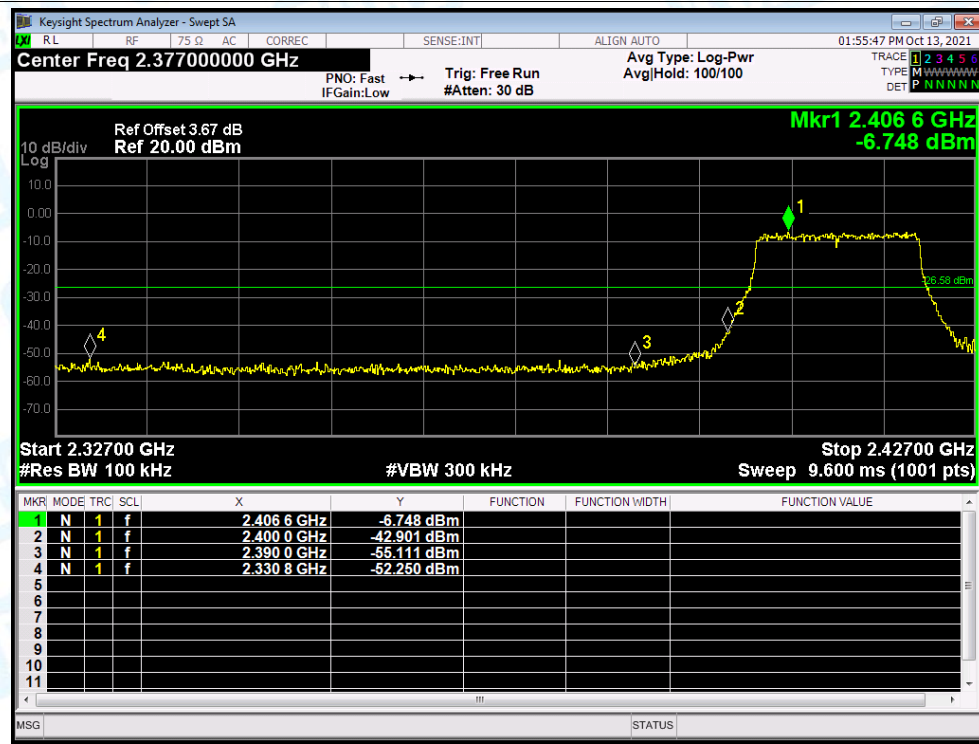




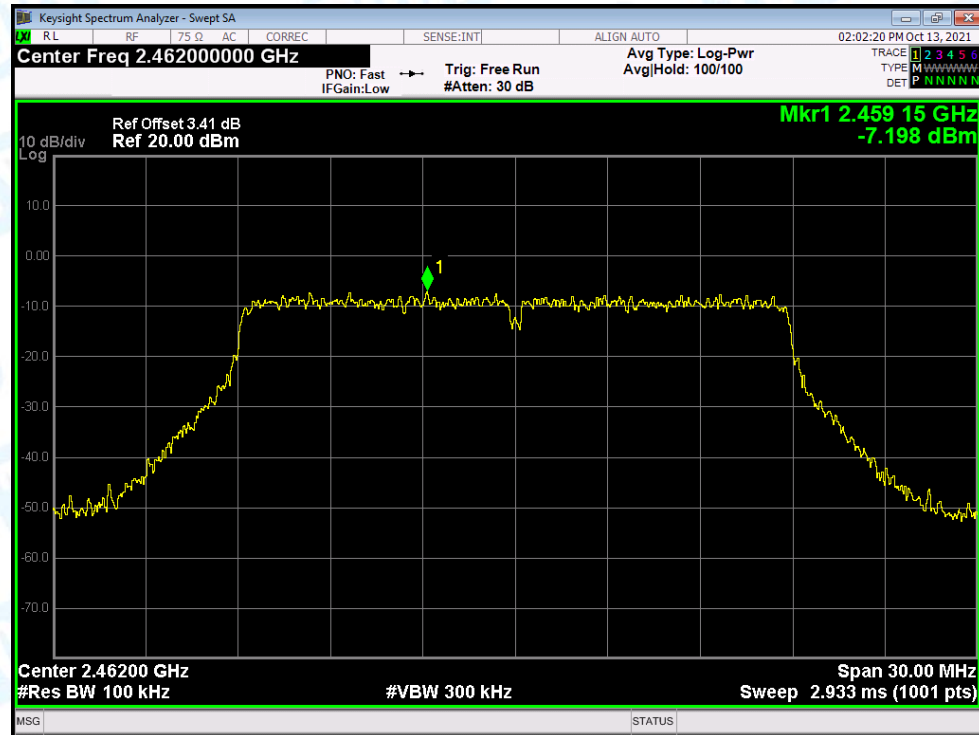
Band Edge NVNT n(HT20) 2412MHz Ant1 Ref



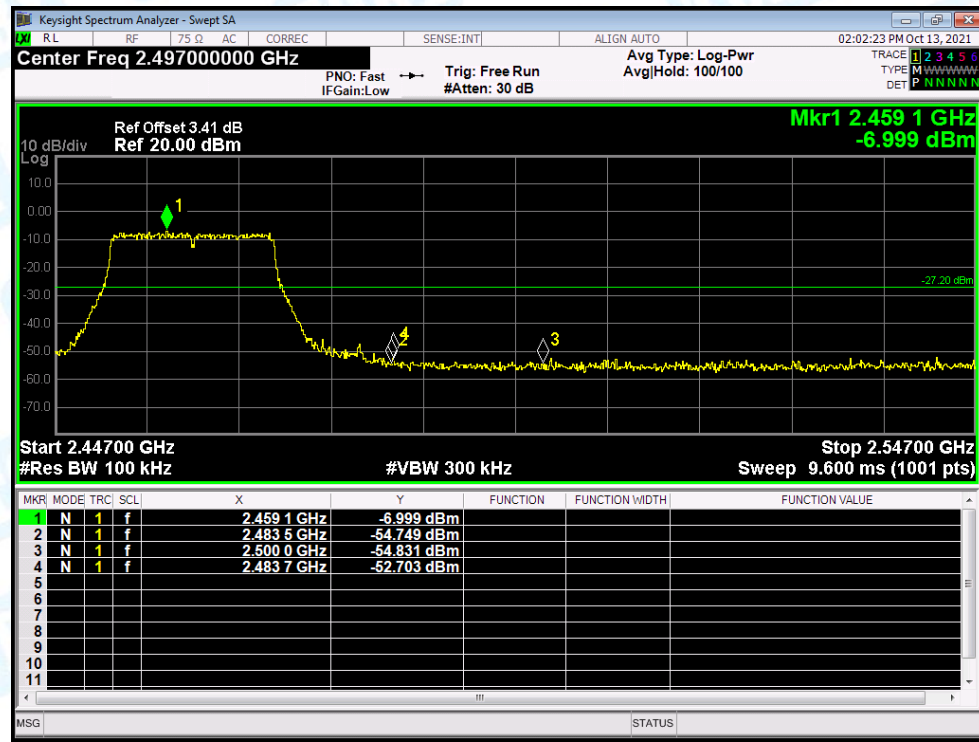
Band Edge NVNT n(HT20) 2412MHz Ant1 Emission



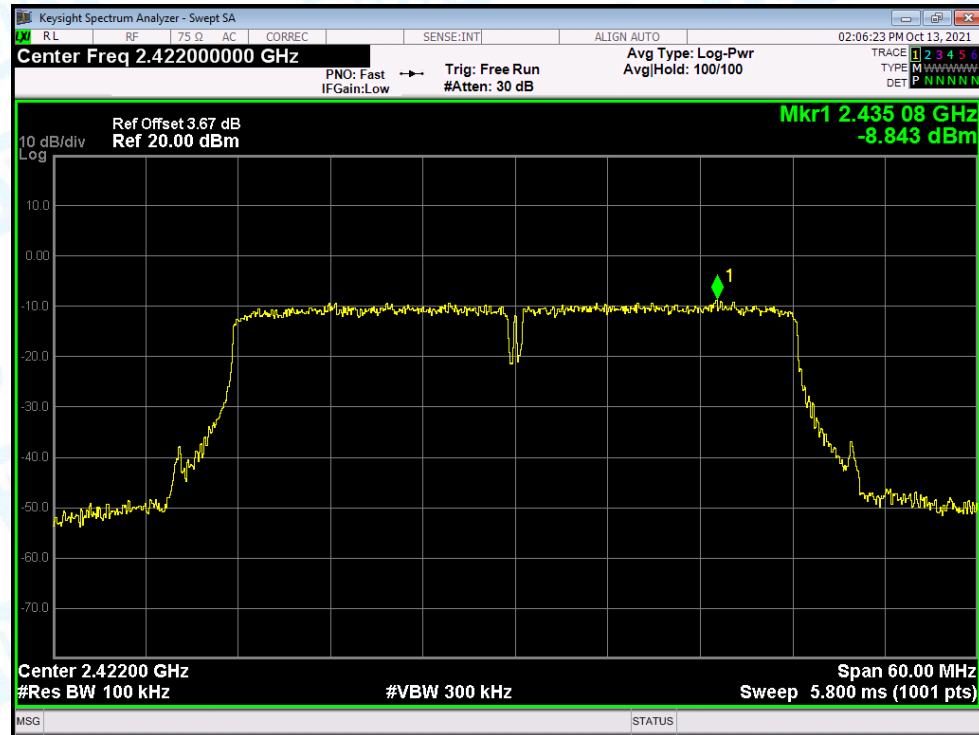
Band Edge NVNT n(HT20) 2462MHz Ant1 Ref



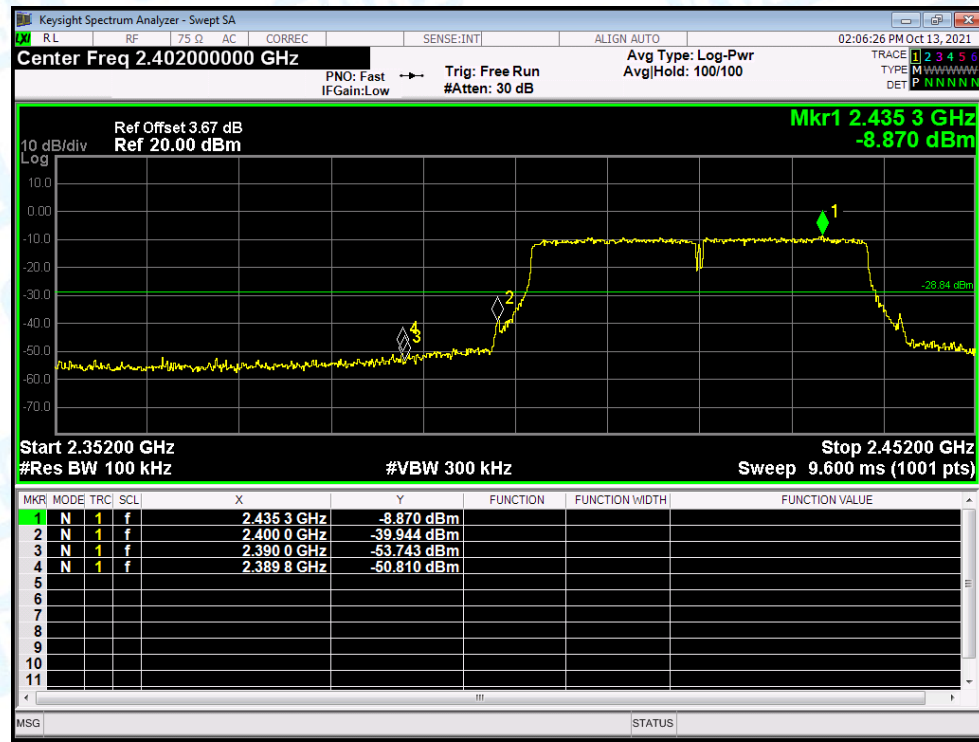
Band Edge NVNT n(HT20) 2462MHz Ant1 Emission



Band Edge NVNT n(HT40) 2422MHz Ant1 Ref



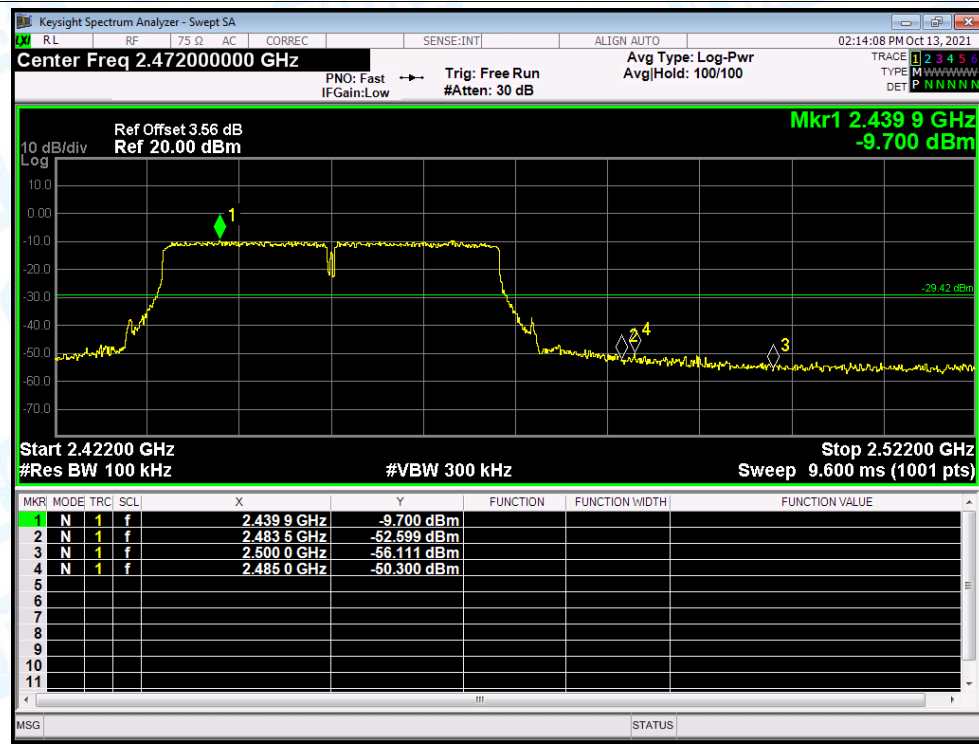
Band Edge NVNT n(HT40) 2422MHz Ant1 Emission



Band Edge NVNT n(HT40) 2452MHz Ant1 Ref



Band Edge NVNT n(HT40) 2452MHz Ant1 Emission

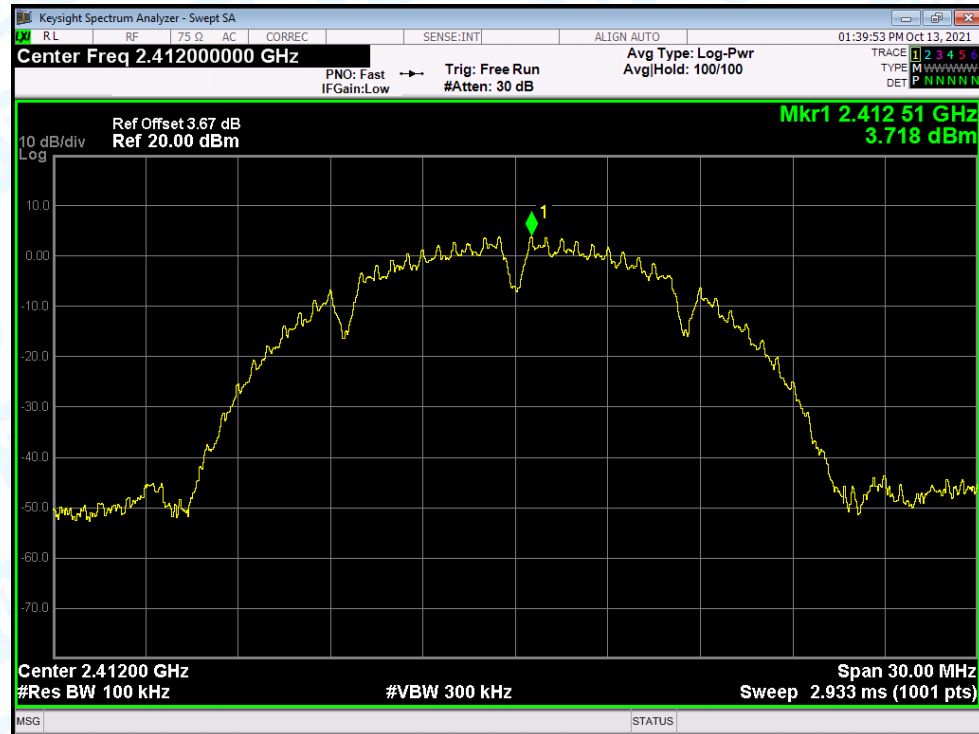


Conducted RF Spurious Emission

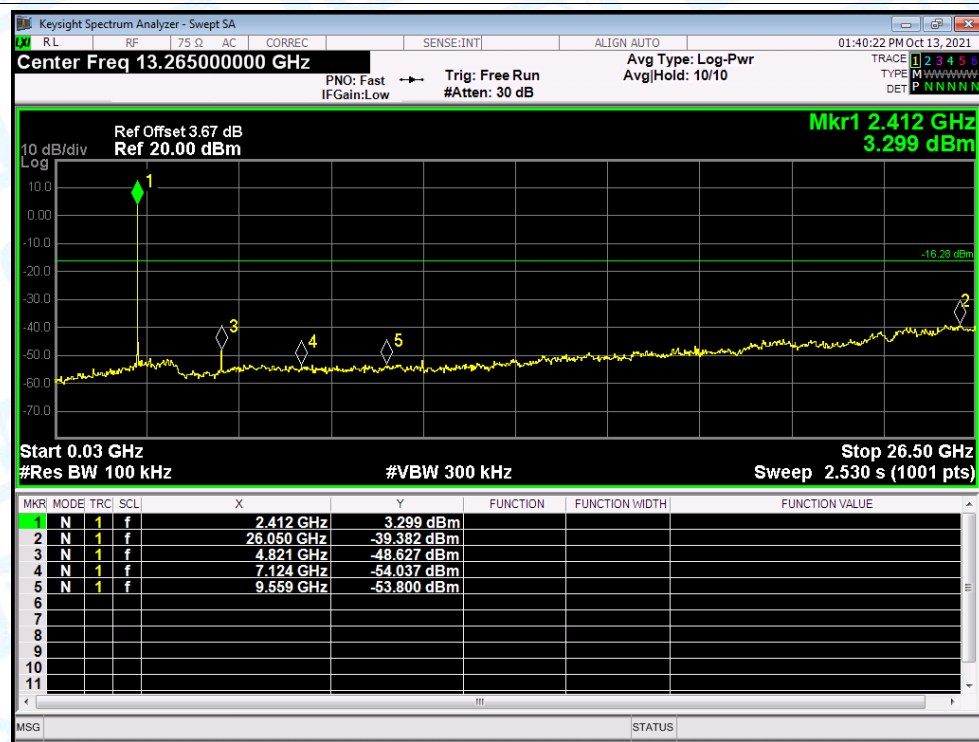
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-43.1	-20	Pass
NVNT	b	2437	Ant1	-41.66	-20	Pass
NVNT	b	2462	Ant1	-40.98	-20	Pass
NVNT	g	2412	Ant1	-33.1	-20	Pass
NVNT	g	2437	Ant1	-32.13	-20	Pass
NVNT	g	2462	Ant1	-33	-20	Pass
NVNT	n(HT20)	2412	Ant1	-32.01	-20	Pass
NVNT	n(HT20)	2437	Ant1	-32.63	-20	Pass
NVNT	n(HT20)	2462	Ant1	-32.77	-20	Pass
NVNT	n(HT40)	2422	Ant1	-29.86	-20	Pass
NVNT	n(HT40)	2437	Ant1	-29.17	-20	Pass
NVNT	n(HT40)	2452	Ant1	-29.35	-20	Pass

Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



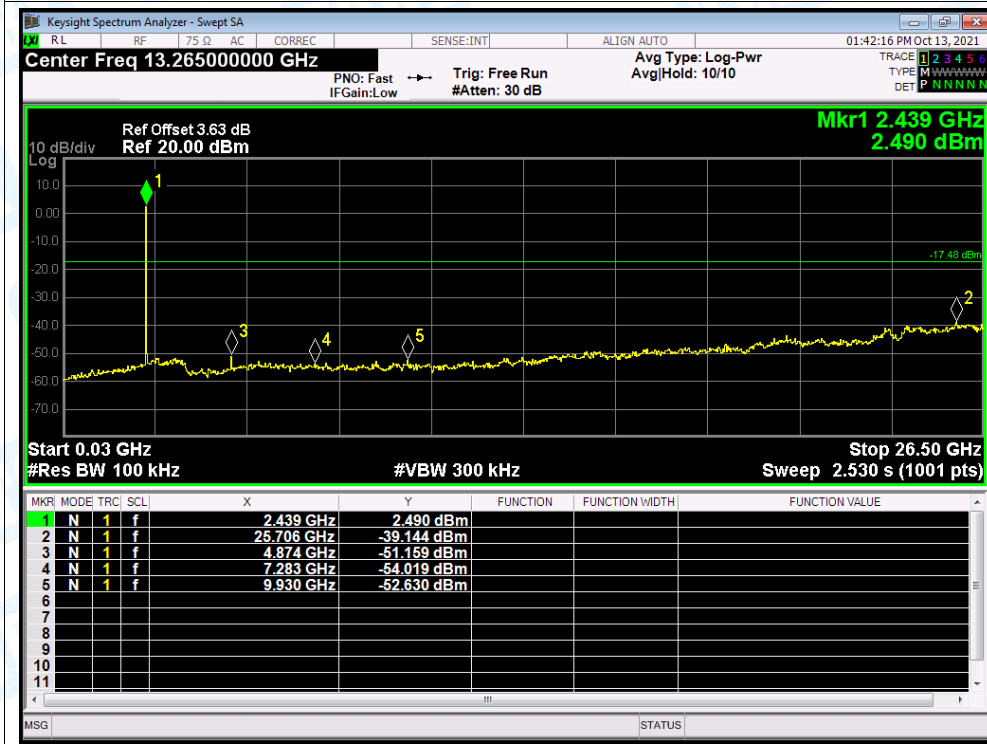
Tx. Spurious NVNT b 2412MHz Ant1 Emission



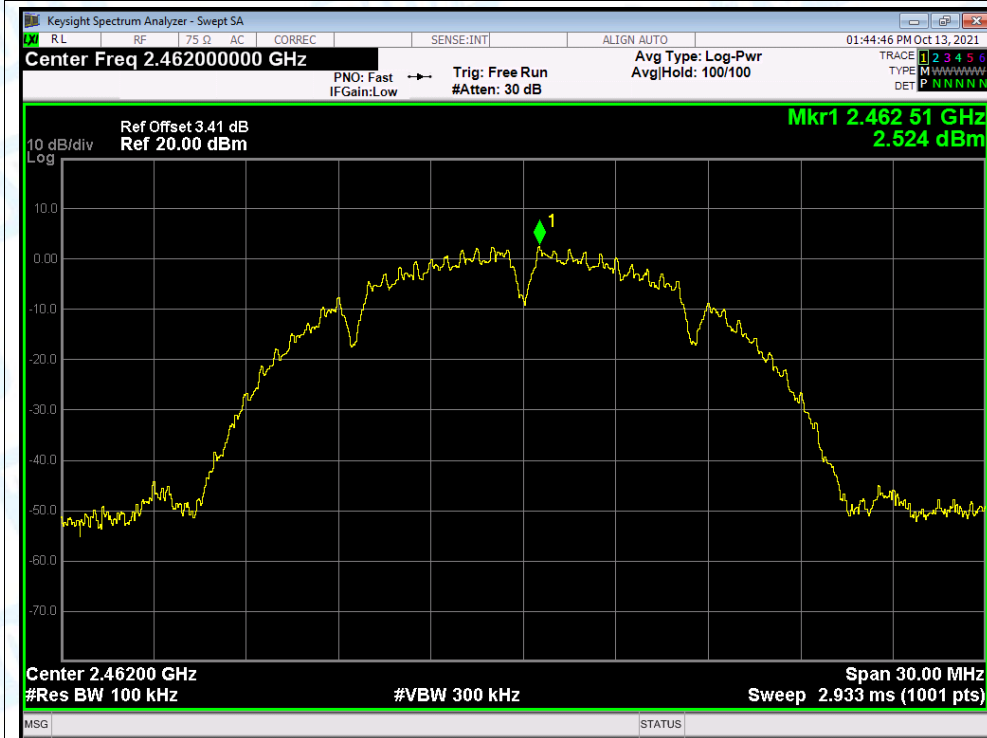
Tx. Spurious NVNT b 2437MHz Ant1 Ref



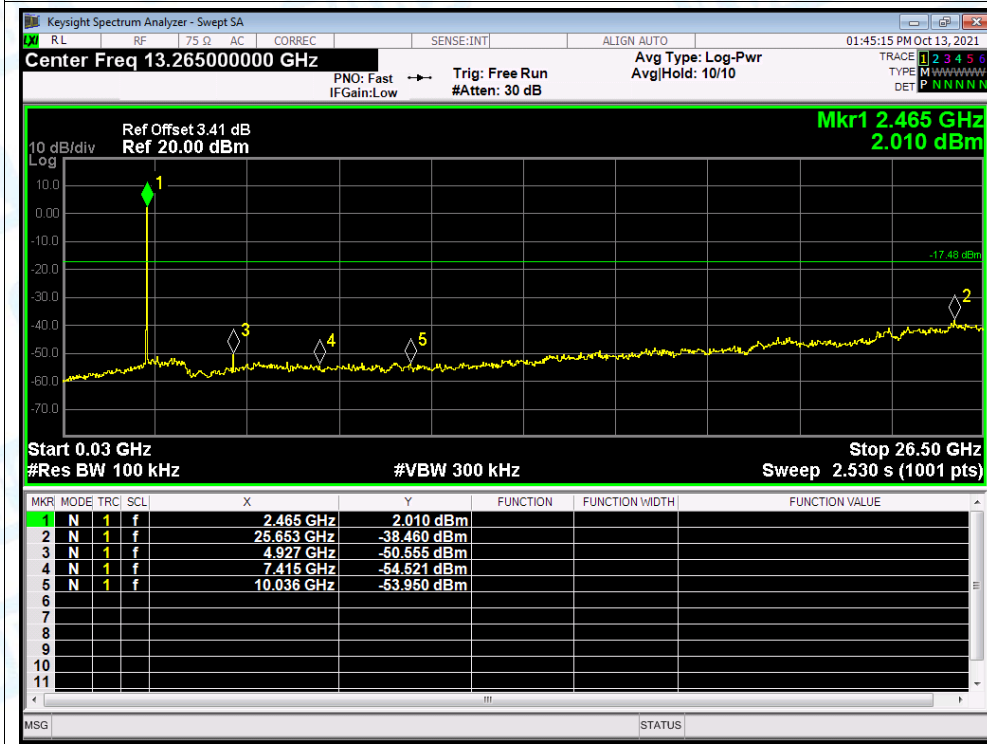
Tx. Spurious NVNT b 2437MHz Ant1 Emission

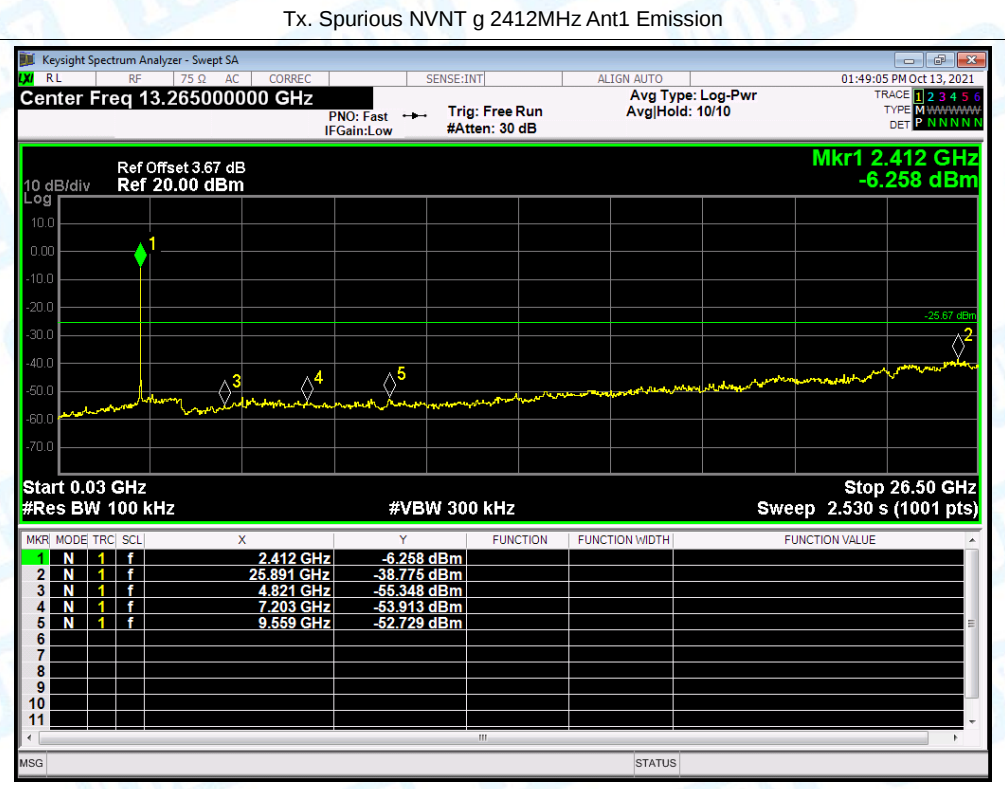
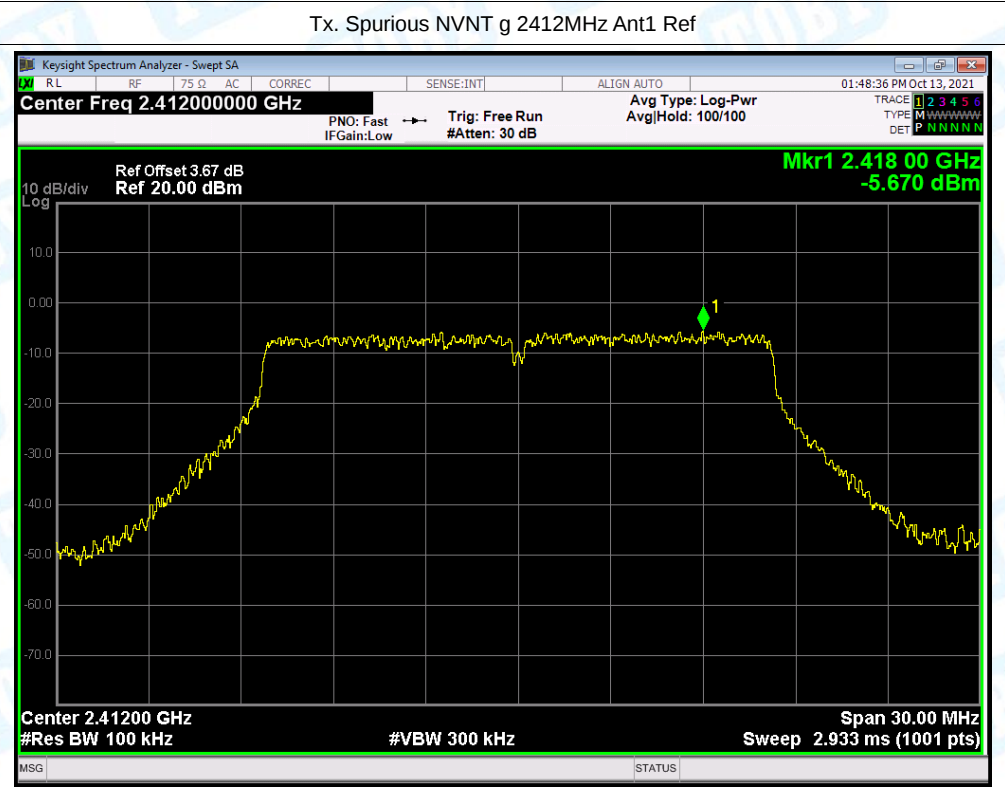


Tx. Spurious NVNT b 2462MHz Ant1 Ref

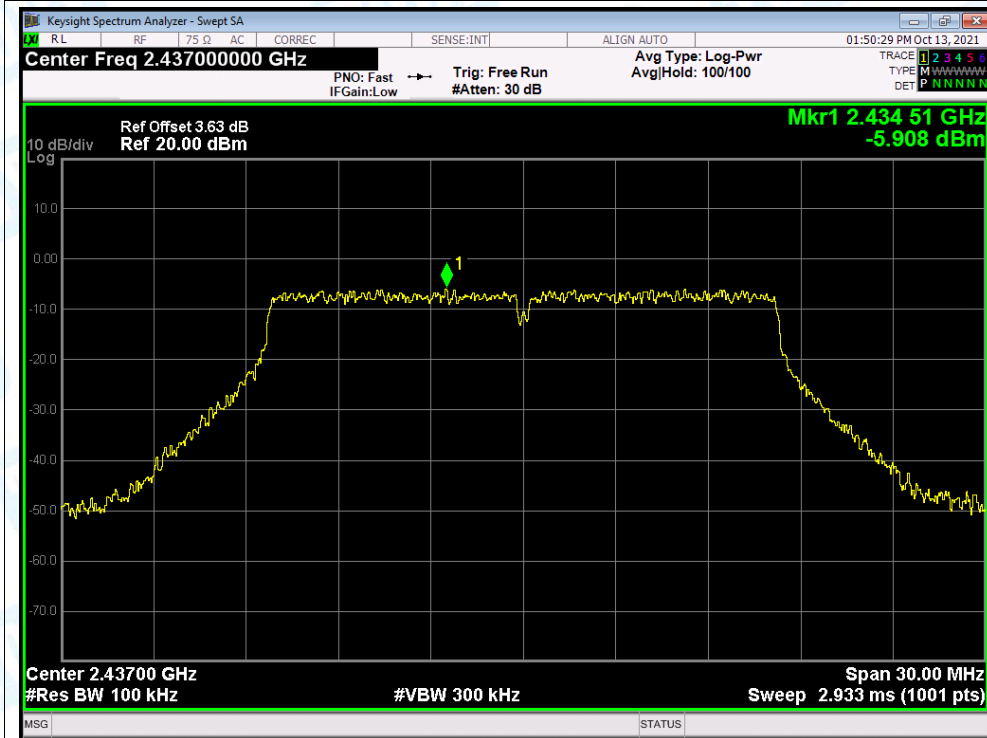


Tx. Spurious NVNT b 2462MHz Ant1 Emission

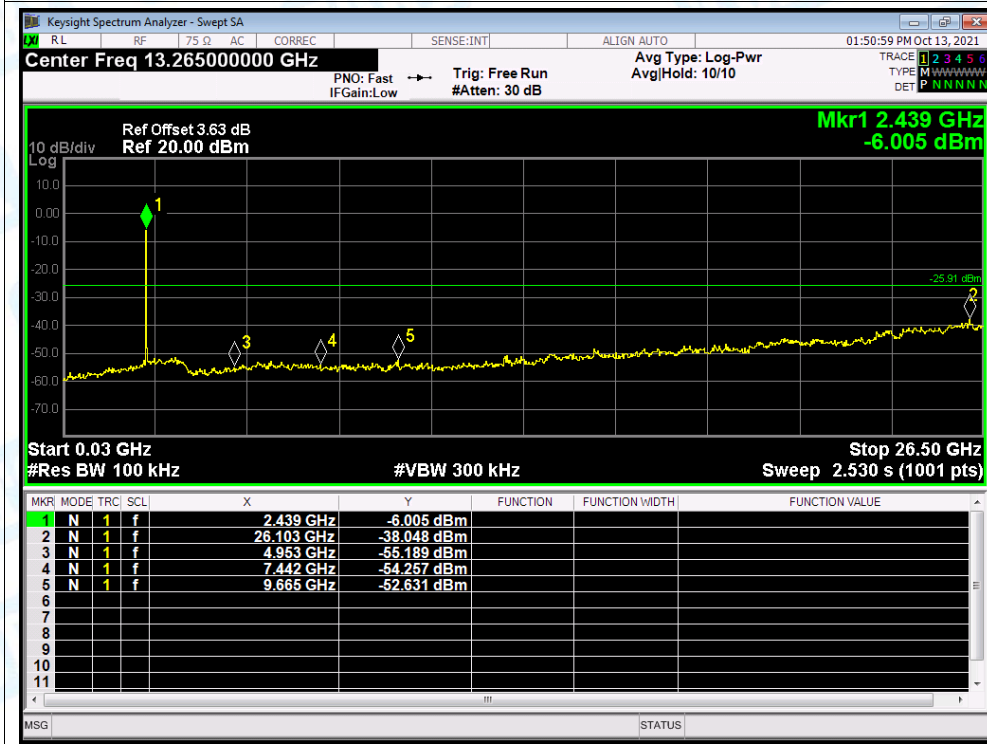




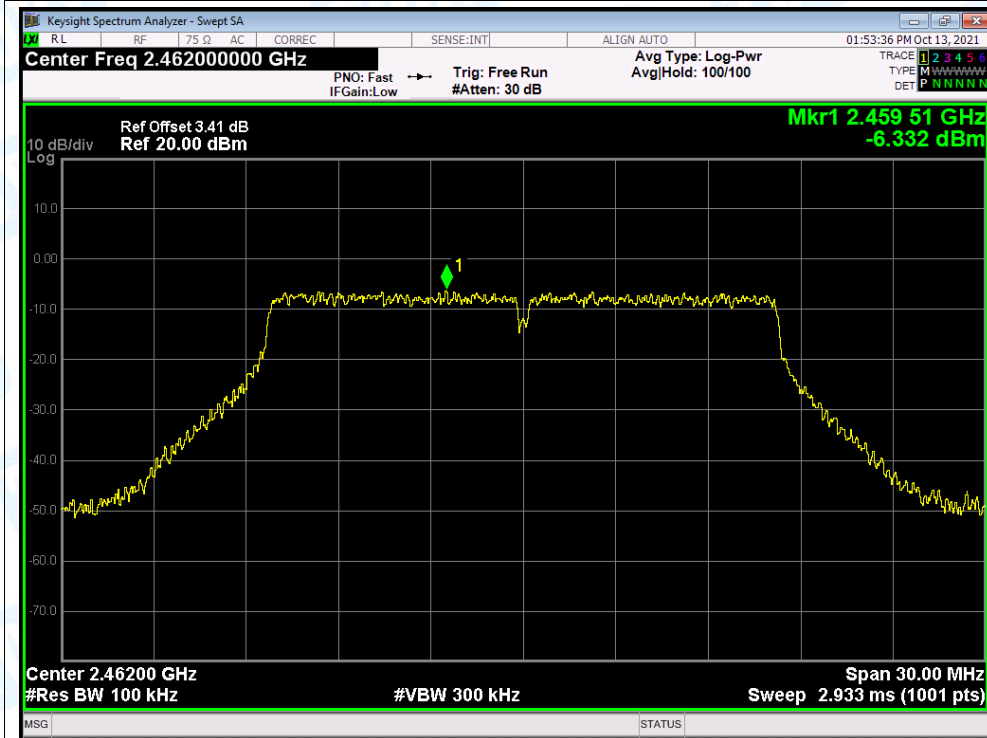
Tx. Spurious NVNT g 2437MHz Ant1 Ref



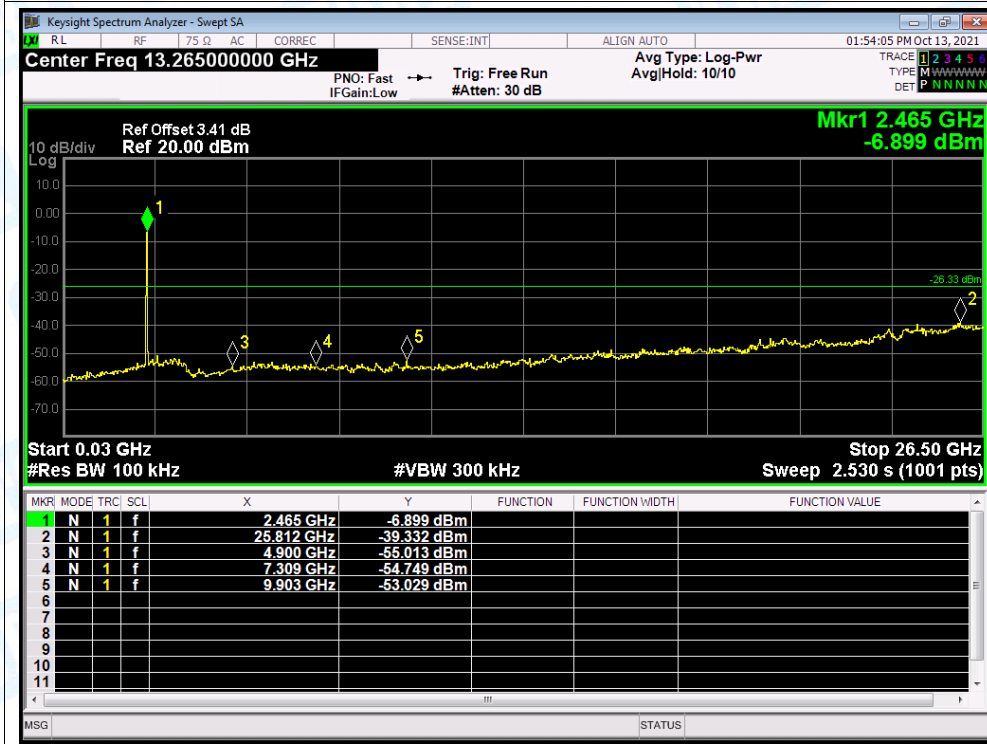
Tx. Spurious NVNT g 2437MHz Ant1 Emission



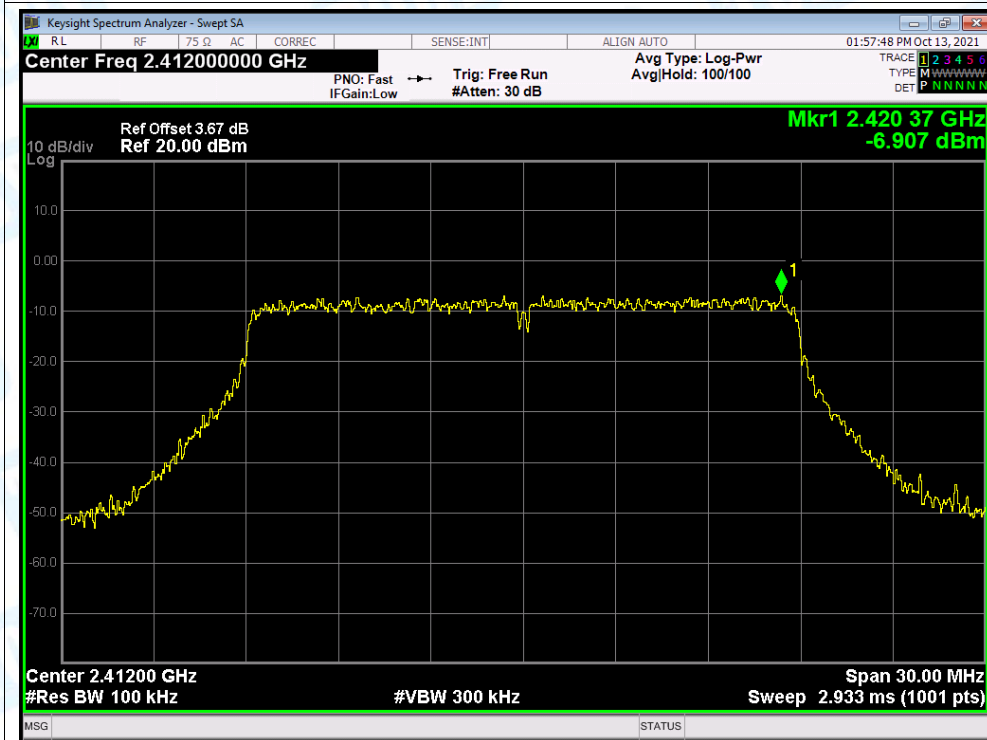
Tx. Spurious NVNT g 2462MHz Ant1 Ref



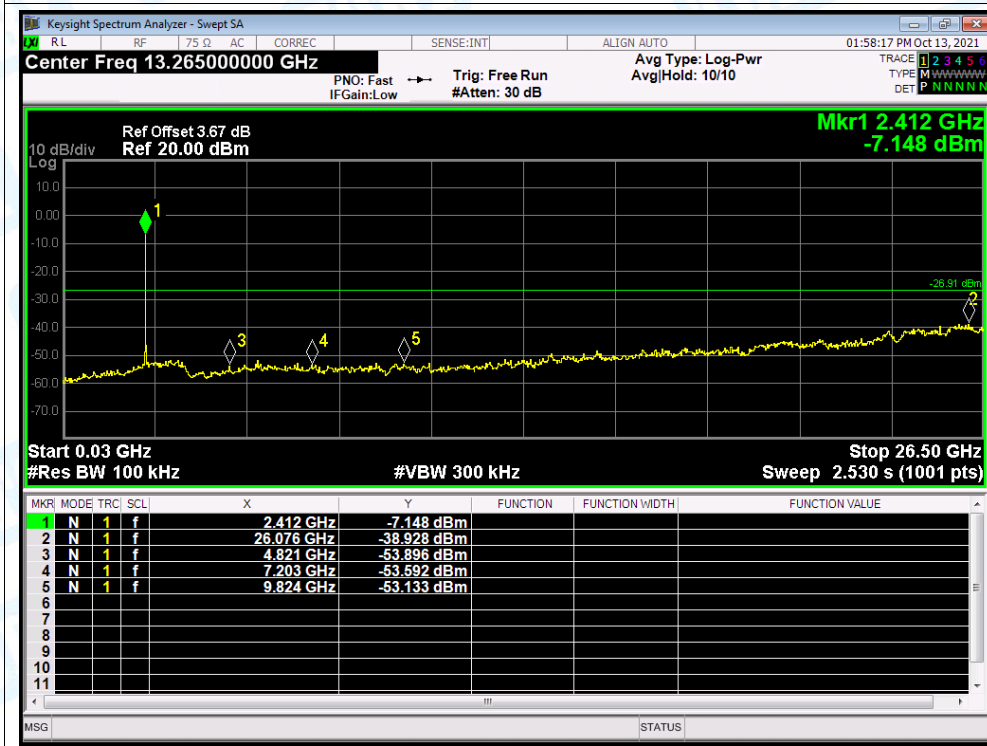
Tx. Spurious NVNT g 2462MHz Ant1 Emission



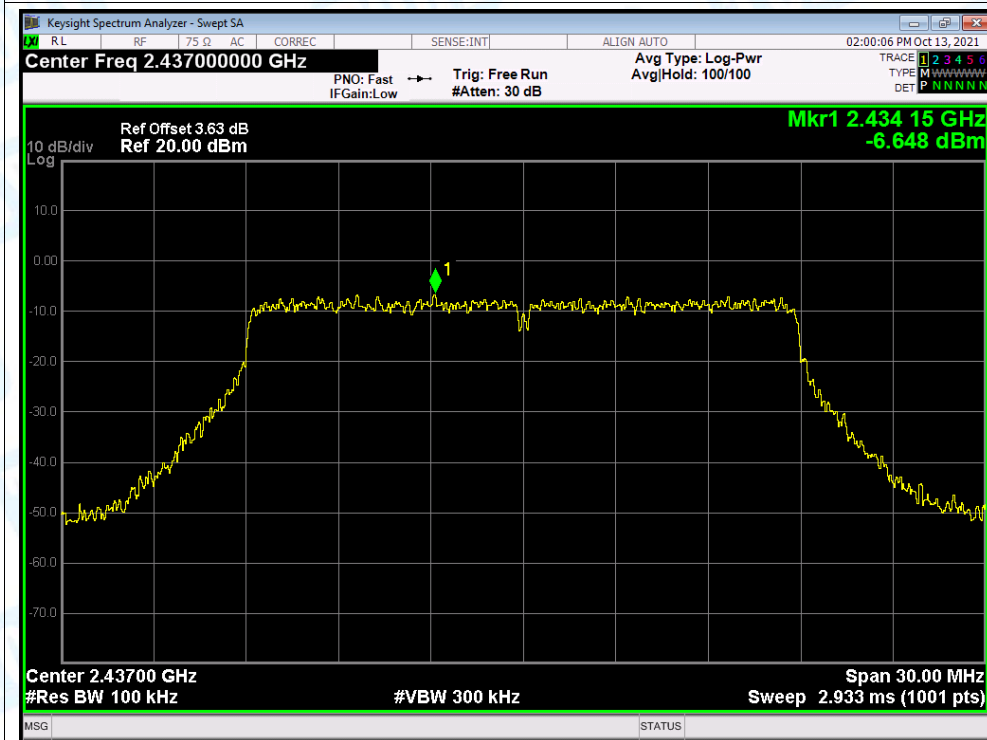
Tx. Spurious NVNT n(HT20) 2412MHz Ant1 Ref



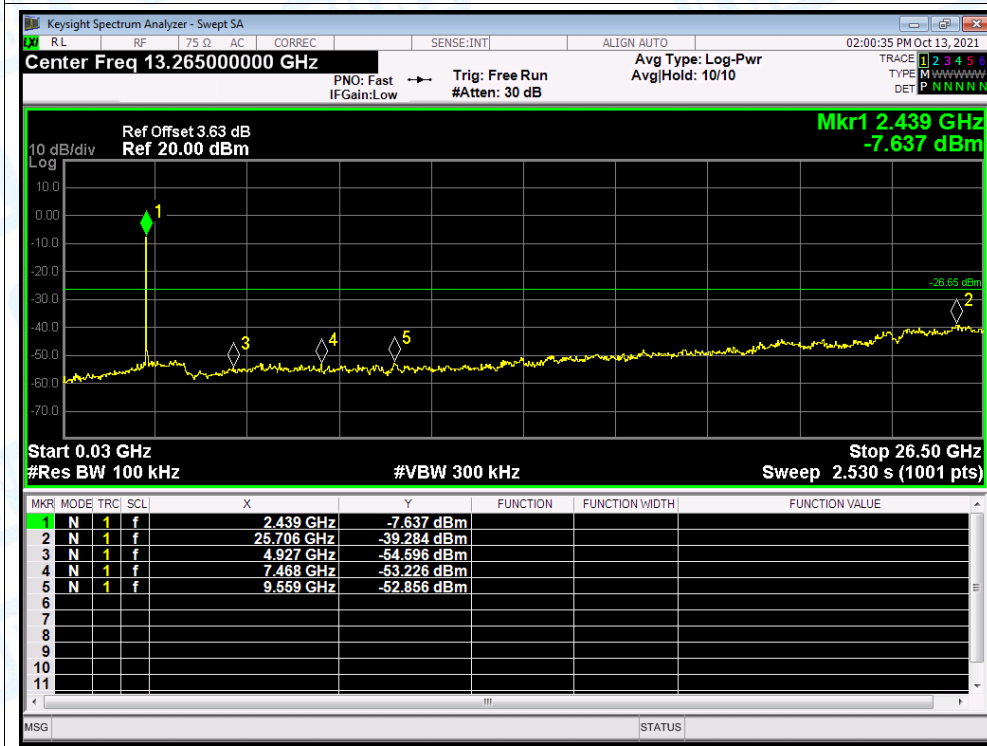
Tx. Spurious NVNT n(HT20) 2412MHz Ant1 Emission



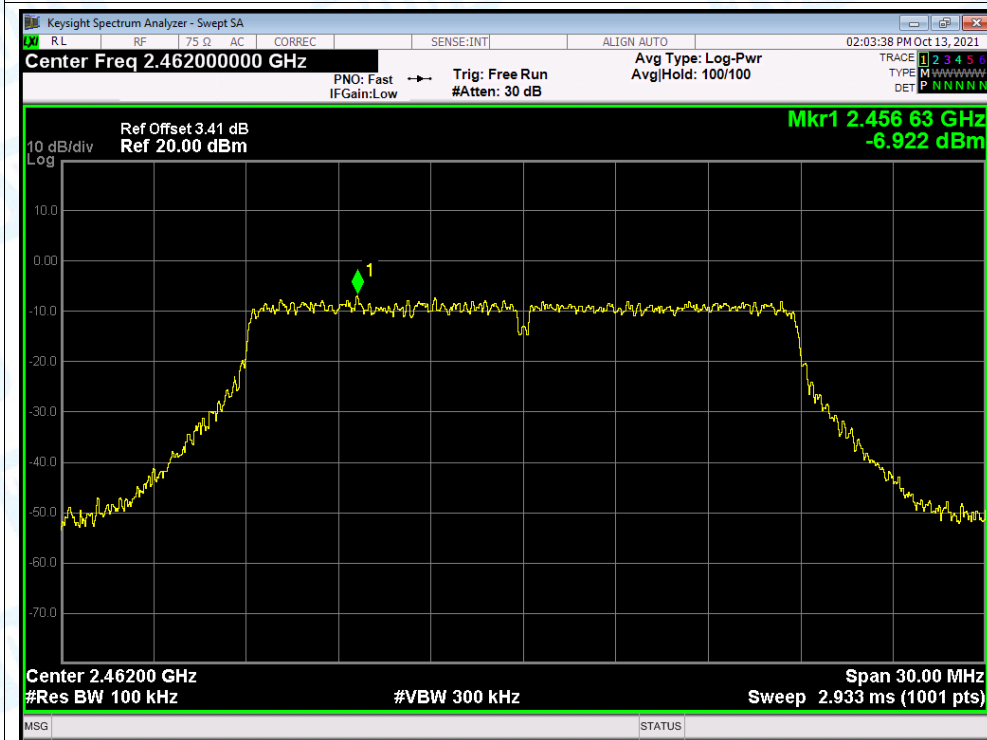
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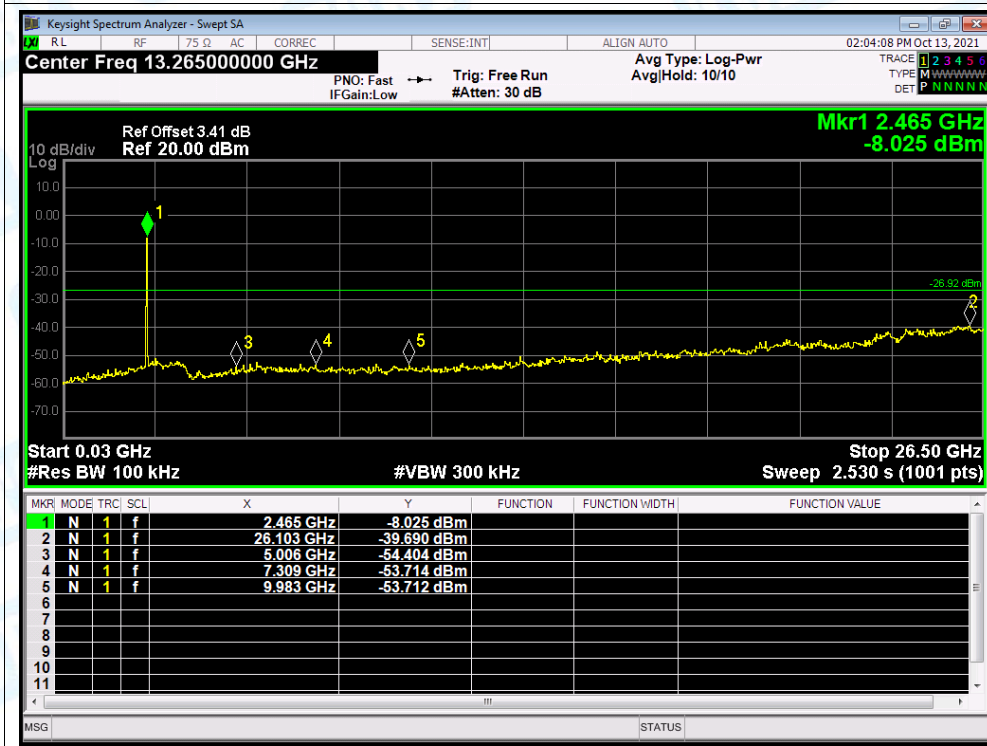
Tx. Spurious NVNT n(HT20) 2437MHz Ant1 Emission



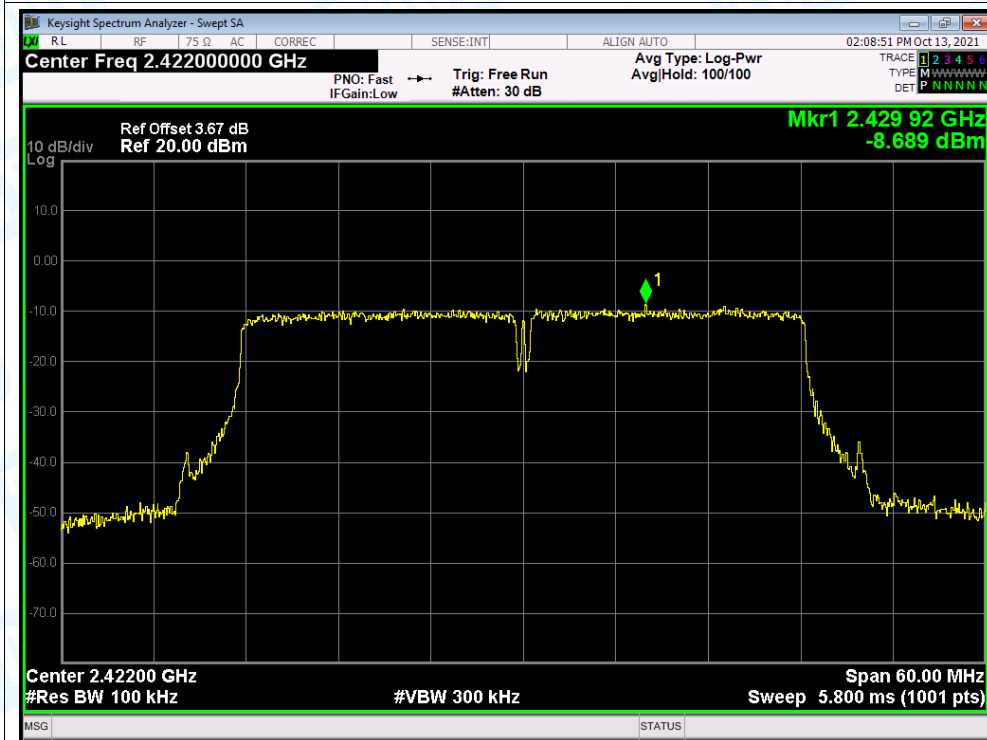
Tx. Spurious NVNT n(HT20) 2462MHz Ant1 Ref



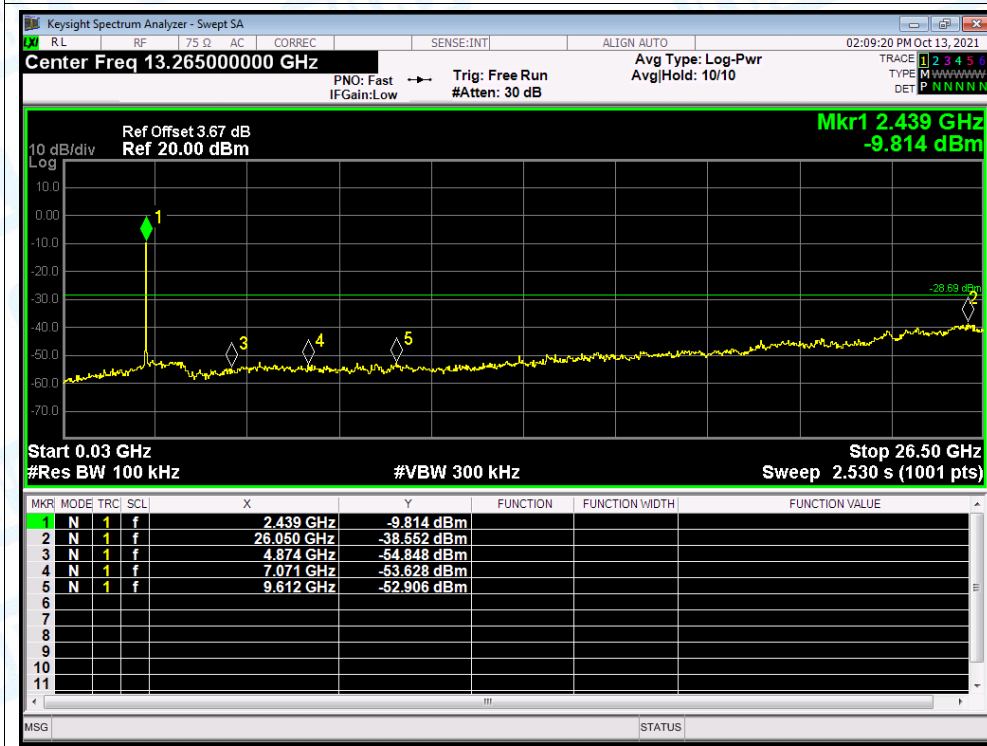
Tx. Spurious NVNT n(HT20) 2462MHz Ant1 Emission



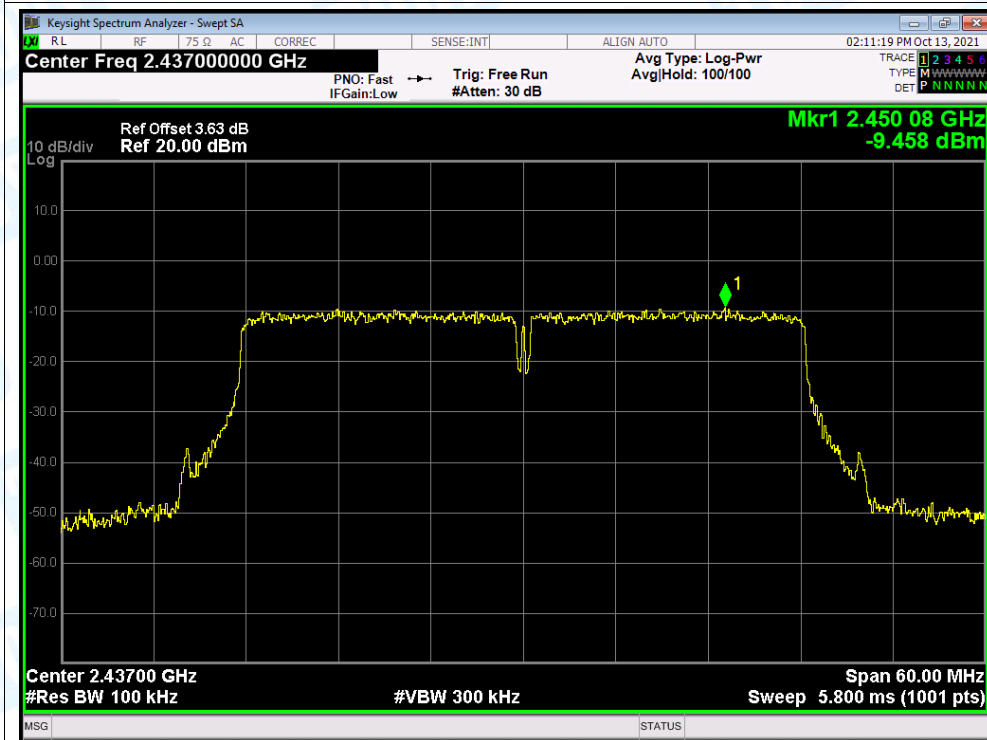
Tx. Spurious NVNT n(HT40) 2422MHz Ant1 Ref



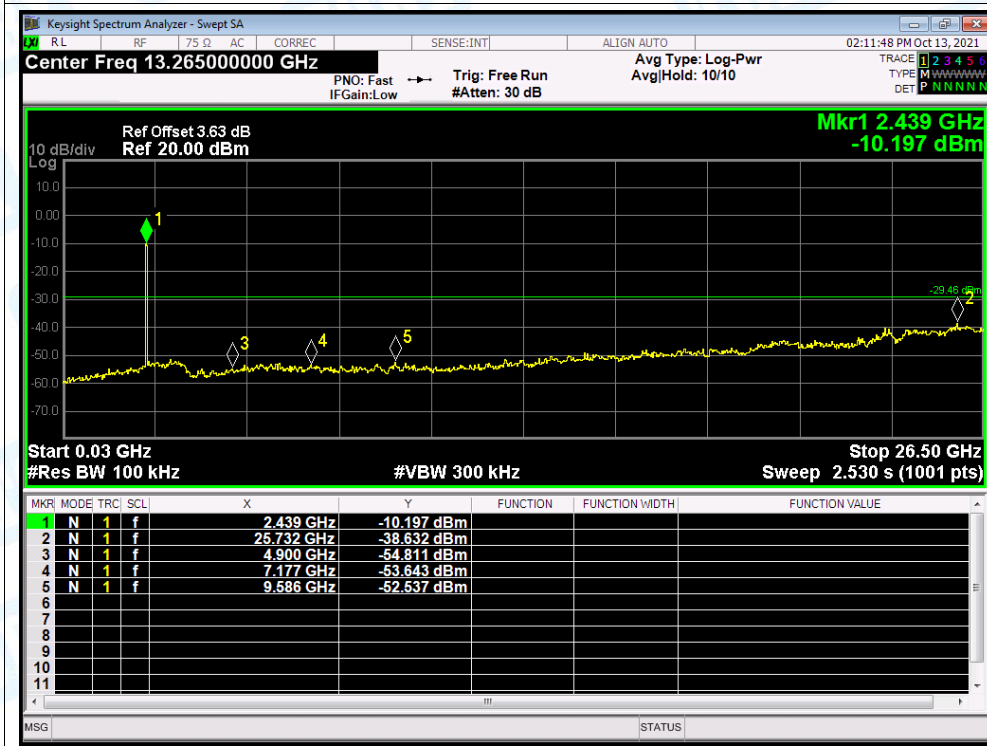
Tx. Spurious NVNT n(HT40) 2422MHz Ant1 Emission



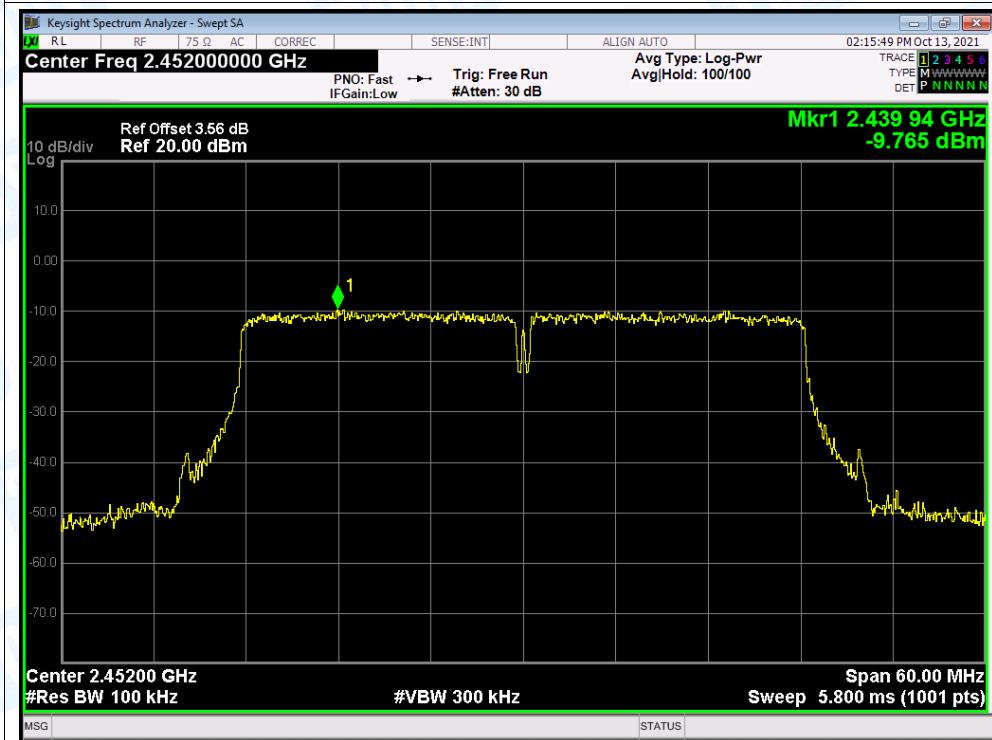
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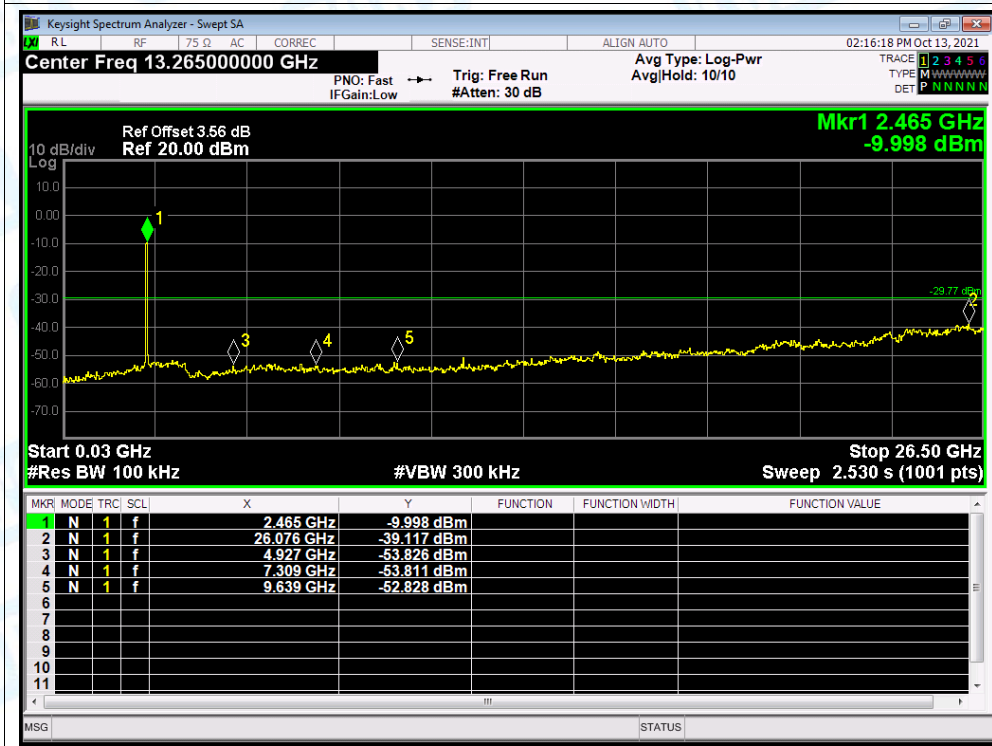
Tx. Spurious NVNT n(HT40) 2437MHz Ant1 Emission



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



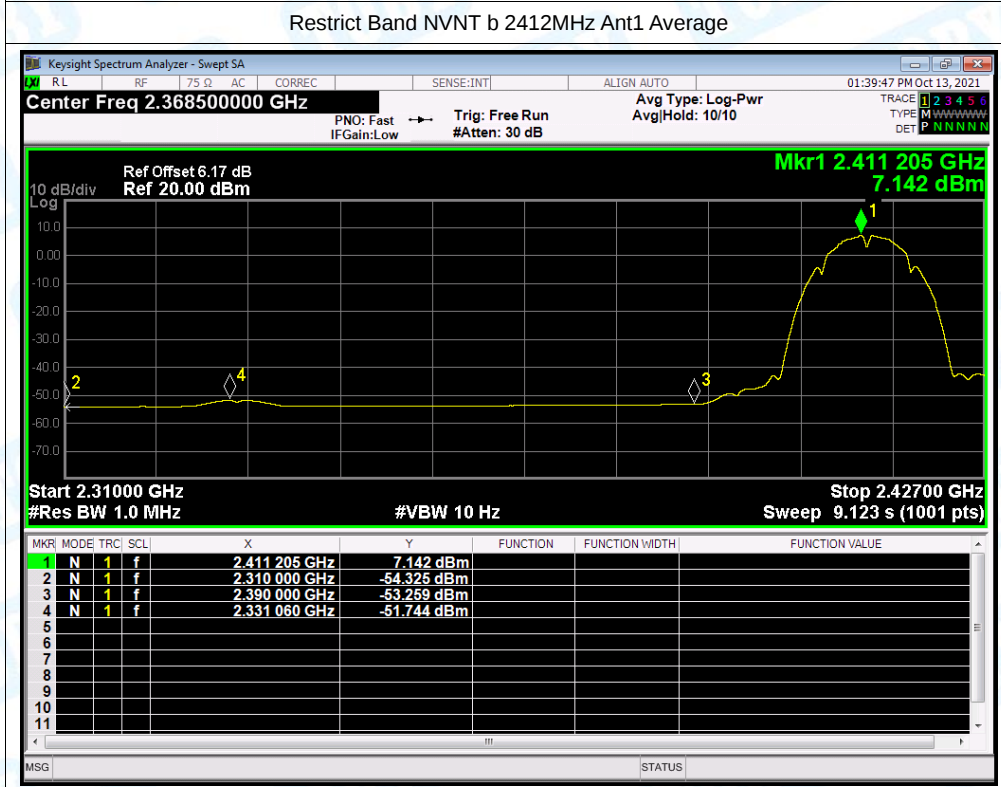
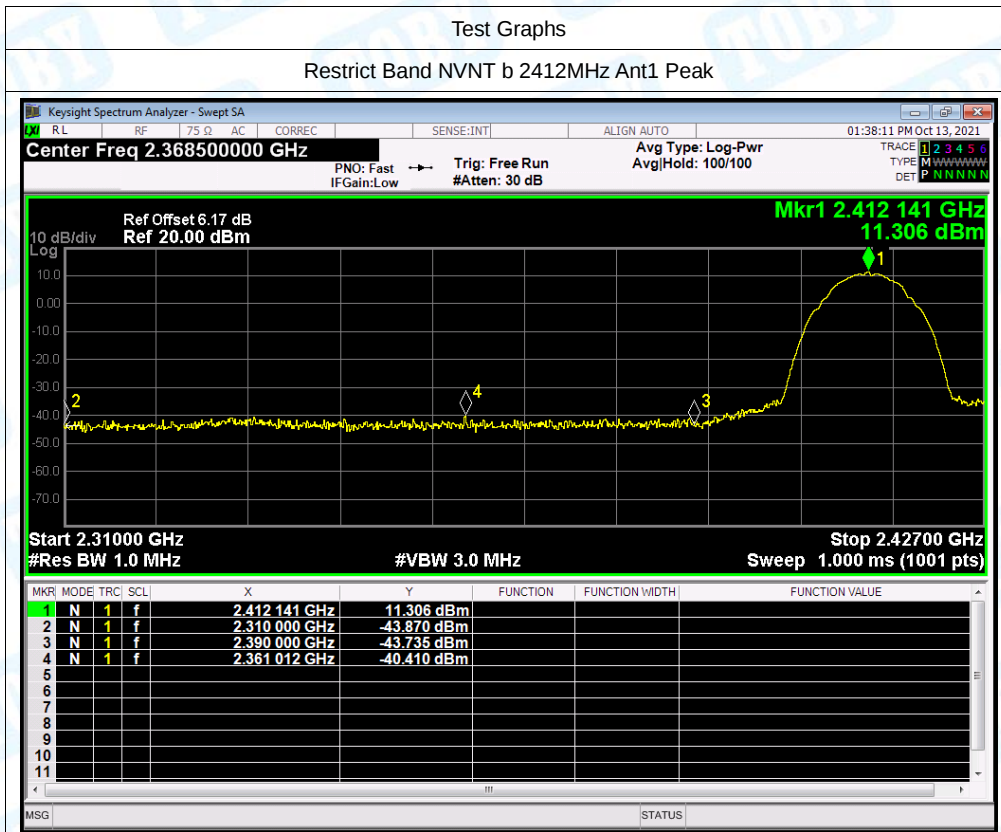
Tx. Spurious NVNT n(HT40) 2452MHz Ant1 Emission



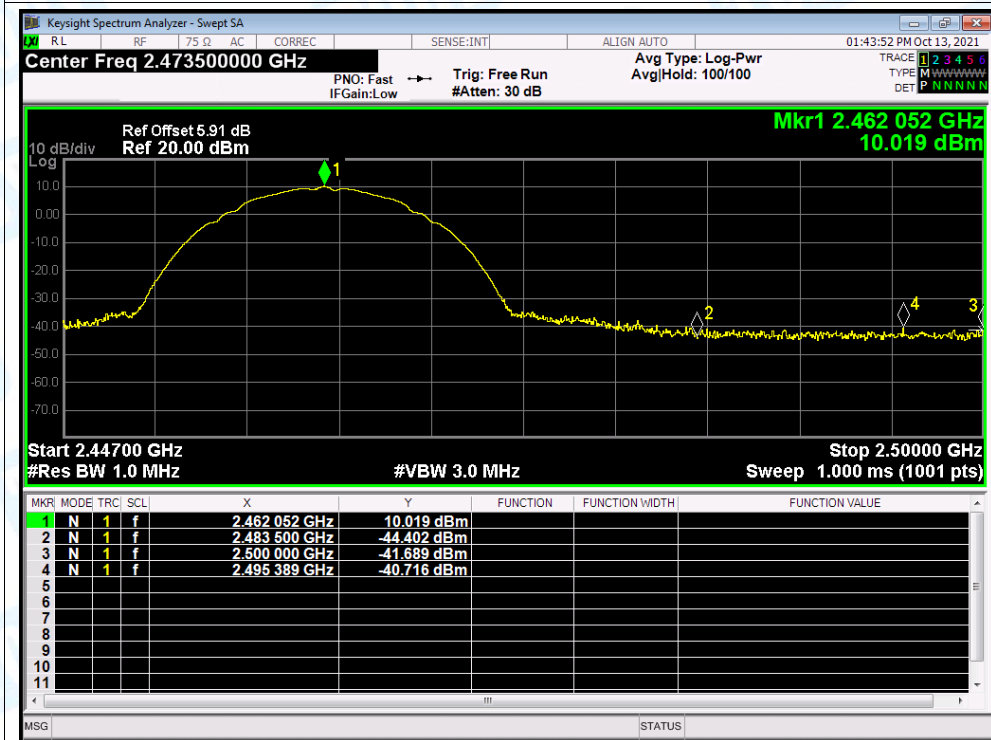
Restrict Band

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	-43.870	2.5	53.88	Peak	74	Pass
NVNT	b	2412	Ant1	2310	-54.325	2.5	43.43	Average	54	Pass
NVNT	b	2412	Ant1	2361.012	-40.410	2.5	57.34	Peak	74	Pass
NVNT	b	2412	Ant1	2331.06	-51.744	2.5	46.01	Average	54	Pass
NVNT	b	2412	Ant1	2390	-43.735	2.5	54.02	Peak	74	Pass
NVNT	b	2412	Ant1	2390	-53.259	2.5	44.49	Average	54	Pass
NVNT	b	2462	Ant1	2483.5	-44.402	2.5	53.35	Peak	74	Pass
NVNT	b	2462	Ant1	2483.5	-52.999	2.5	44.75	Average	54	Pass
NVNT	b	2462	Ant1	2495.389	-40.716	2.5	57.03	Peak	74	Pass
NVNT	b	2462	Ant1	2483.517	-52.999	2.5	44.75	Average	54	Pass
NVNT	b	2462	Ant1	2500	-41.689	2.5	56.06	Peak	74	Pass
NVNT	b	2462	Ant1	2500	-53.445	2.5	44.31	Average	54	Pass
NVNT	g	2412	Ant1	2310	-43.437	2.5	54.31	Peak	74	Pass
NVNT	g	2412	Ant1	2310	-54.497	2.5	43.25	Average	54	Pass
NVNT	g	2412	Ant1	2337.729	-41.000	2.5	56.75	Peak	74	Pass
NVNT	g	2412	Ant1	2338.782	-52.840	2.5	44.91	Average	54	Pass
NVNT	g	2412	Ant1	2390	-43.027	2.5	54.72	Peak	74	Pass
NVNT	g	2412	Ant1	2390	-52.796	2.5	44.95	Average	54	Pass
NVNT	g	2462	Ant1	2483.5	-39.606	2.5	58.14	Peak	74	Pass
NVNT	g	2462	Ant1	2483.5	-52.199	2.5	45.55	Average	54	Pass
NVNT	g	2462	Ant1	2483.517	-39.606	2.5	58.14	Peak	74	Pass
NVNT	g	2462	Ant1	2483.517	-52.199	2.5	45.55	Average	54	Pass
NVNT	g	2462	Ant1	2500	-43.751	2.5	54.00	Peak	74	Pass
NVNT	g	2462	Ant1	2500	-53.409	2.5	44.34	Average	54	Pass
NVNT	n(HT20)	2412	Ant1	2310	-43.159	2.5	54.59	Peak	74	Pass
NVNT	n(HT20)	2412	Ant1	2310	-54.486	2.5	43.26	Average	54	Pass
NVNT	n(HT20)	2412	Ant1	2353.992	-40.465	2.5	57.29	Peak	74	Pass
NVNT	n(HT20)	2412	Ant1	2389.911	-52.750	2.5	45.00	Average	54	Pass
NVNT	n(HT20)	2412	Ant1	2390	-41.606	2.5	56.14	Peak	74	Pass
NVNT	n(HT20)	2412	Ant1	2390	-52.690	2.5	45.06	Average	54	Pass
NVNT	n(HT20)	2462	Ant1	2483.5	-41.488	2.5	56.26	Peak	74	Pass
NVNT	n(HT20)	2462	Ant1	2483.5	-52.127	2.5	45.62	Average	54	Pass
NVNT	n(HT20)	2462	Ant1	2483.782	-40.115	2.5	57.64	Peak	74	Pass
NVNT	n(HT20)	2462	Ant1	2483.517	-52.127	2.5	45.62	Average	54	Pass
NVNT	n(HT20)	2462	Ant1	2500	-44.365	2.5	53.39	Peak	74	Pass
NVNT	n(HT20)	2462	Ant1	2500	-53.466	2.5	44.28	Average	54	Pass
NVNT	n(HT40)	2422	Ant1	2310	-42.935	2.5	54.92	Peak	74	Pass
NVNT	n(HT40)	2422	Ant1	2310	-54.492	2.5	43.26	Average	54	Pass
NVNT	n(HT40)	2422	Ant1	2388.242	-39.448	2.5	58.30	Peak	74	Pass
NVNT	n(HT40)	2422	Ant1	2389.946	-51.110	2.5	46.64	Average	54	Pass
NVNT	n(HT40)	2422	Ant1	2390	-40.268	2.5	57.48	Peak	74	Pass
NVNT	n(HT40)	2422	Ant1	2390	-51.110	2.5	46.64	Average	54	Pass
NVNT	n(HT40)	2452	Ant1	2483.5	-39.903	2.5	57.85	Peak	74	Pass

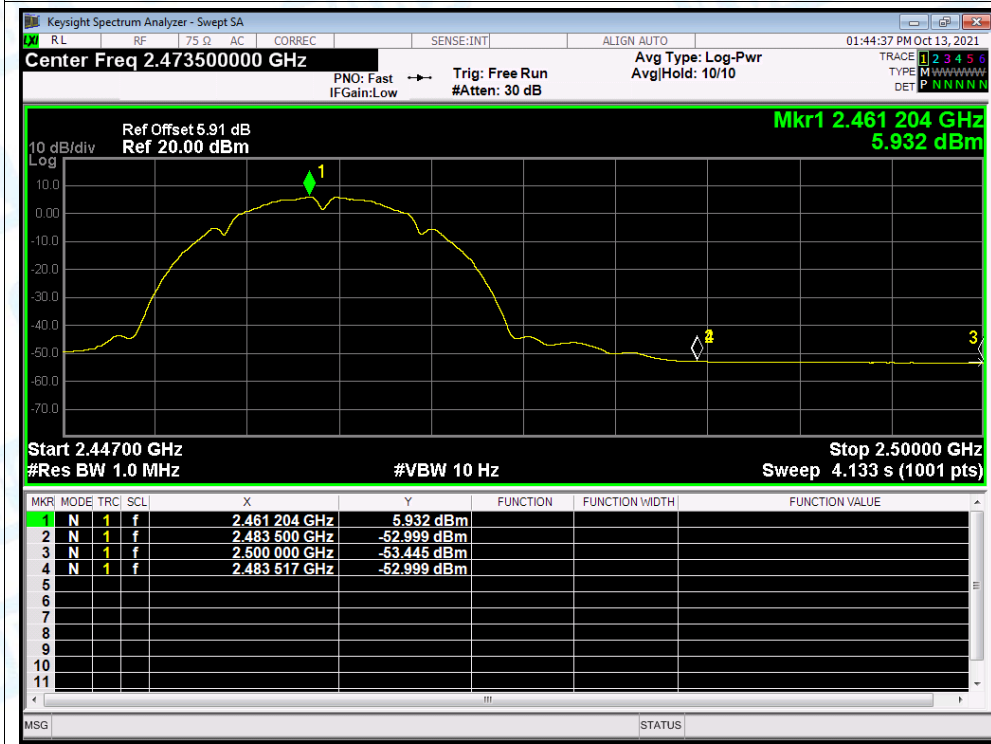
NVNT	n(HT40)	2452	Ant1	2483.5	-48.856	2.5	48.89	Average	54	Pass
NVNT	n(HT40)	2452	Ant1	2488.144	-36.721	2.5	61.03	Peak	74	Pass
NVNT	n(HT40)	2452	Ant1	2483.542	-49.875	2.5	47.88	Average	54	Pass
NVNT	n(HT40)	2452	Ant1	2500	-44.564	2.5	53.19	Peak	74	Pass
NVNT	n(HT40)	2452	Ant1	2500	-53.027	2.5	44.72	Average	54	Pass



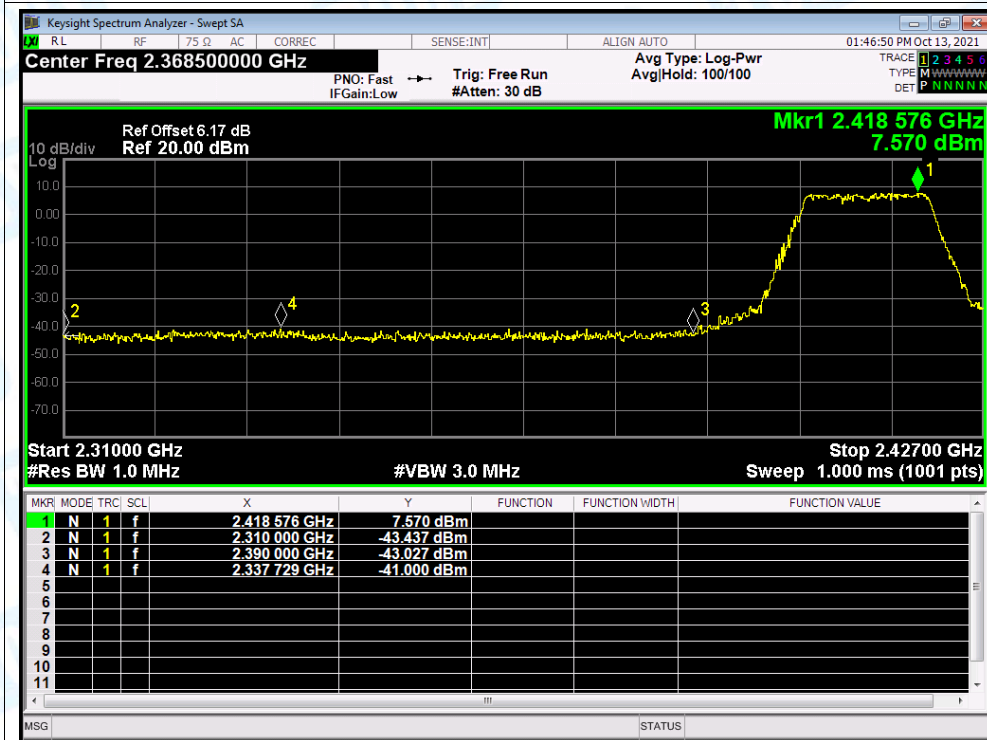
Restrict Band NVNT b 2462MHz Ant1 Peak



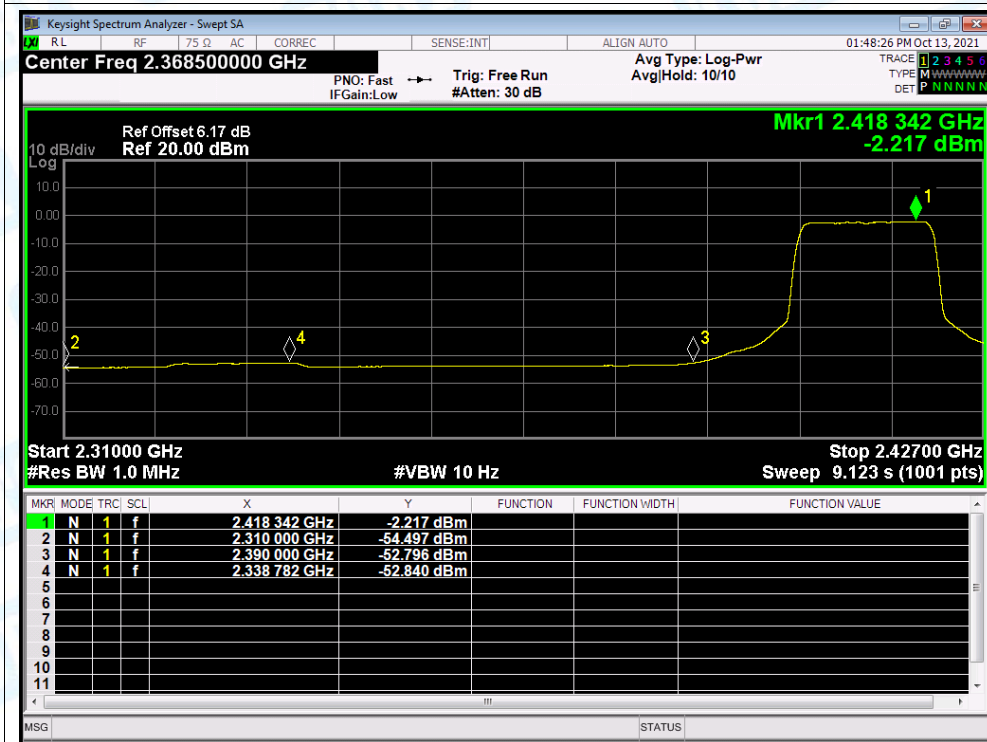
Restrict Band NVNT b 2462MHz Ant1 Average



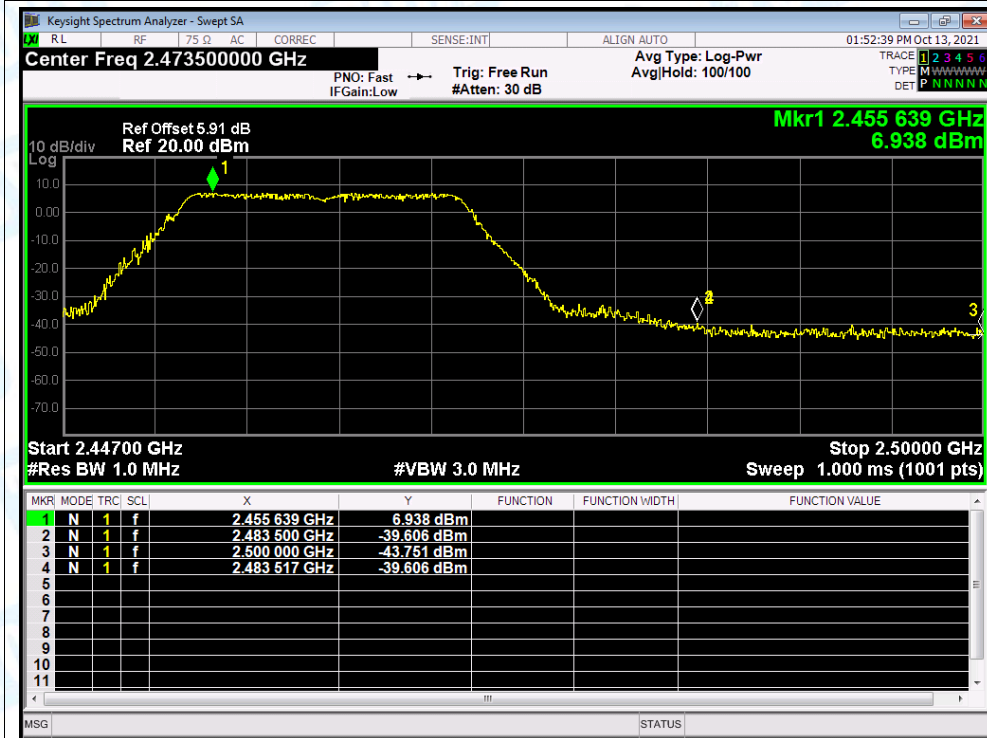
Restrict Band NVNT g 2412MHz Ant1 Peak



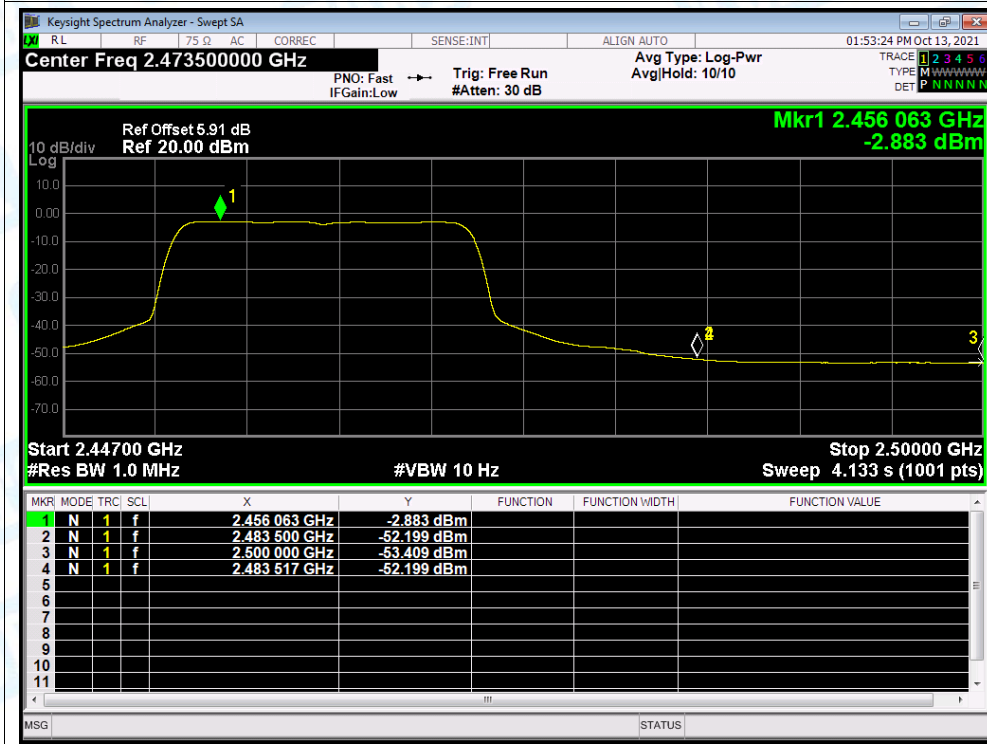
Restrict Band NVNT g 2412MHz Ant1 Average



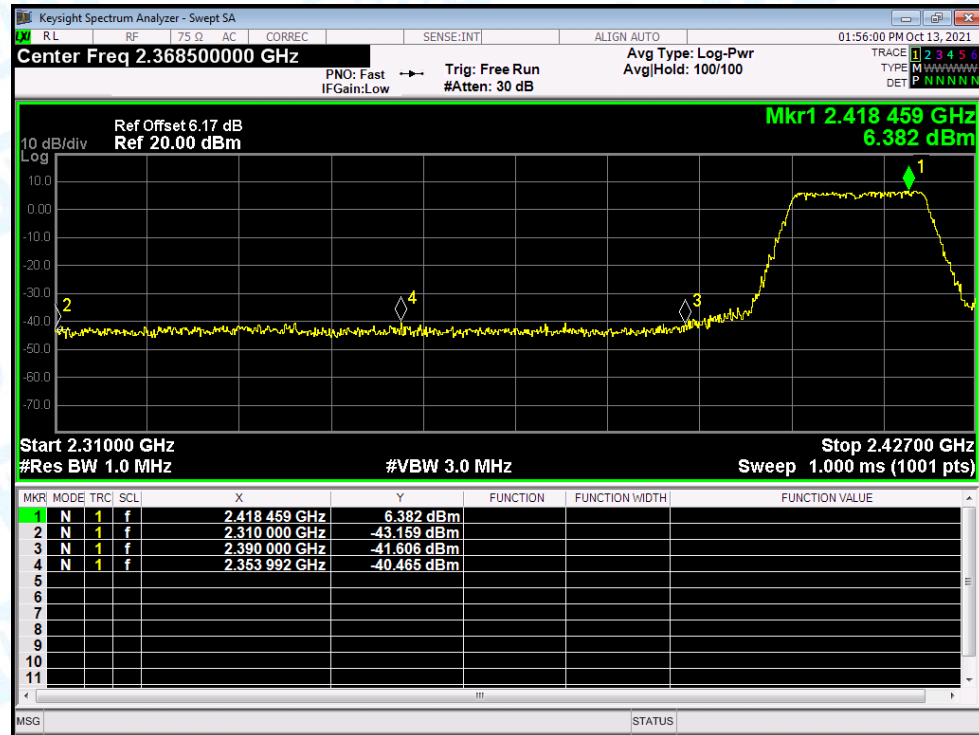
Restrict Band NVNT g 2462MHz Ant1 Peak



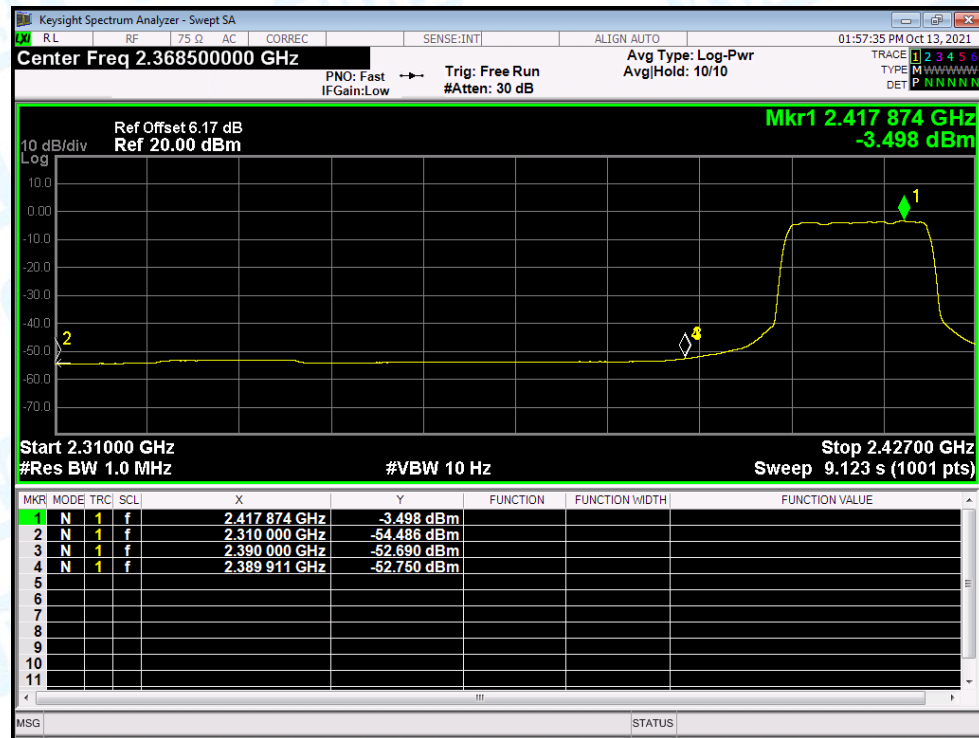
Restrict Band NVNT g 2462MHz Ant1 Average



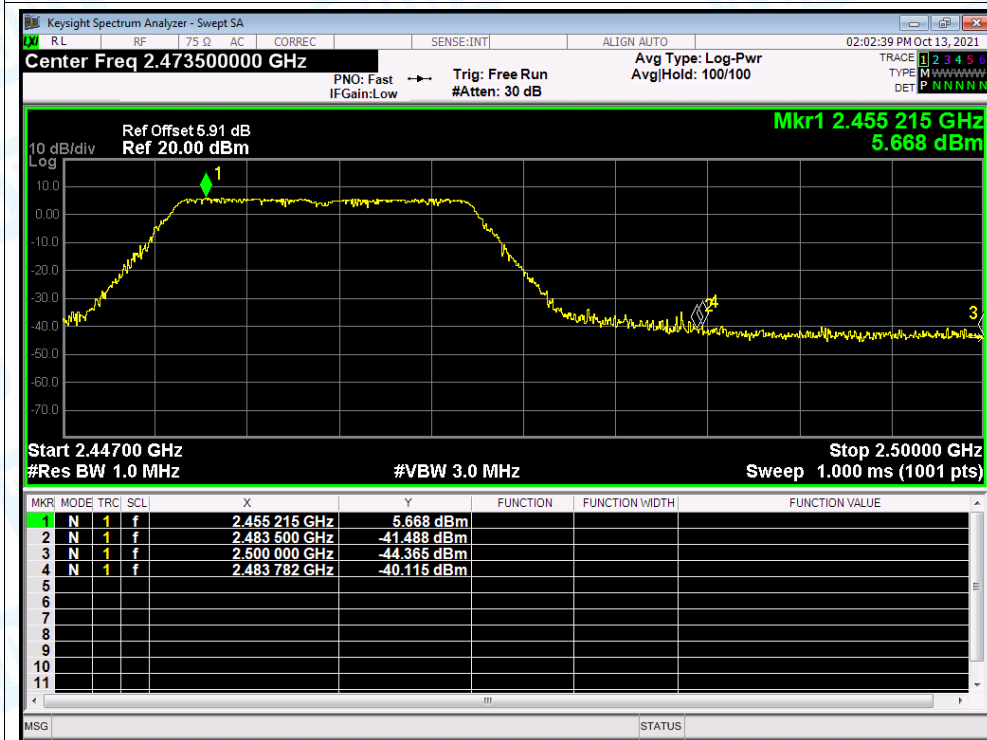
Restrict Band NVNT n(HT20) 2412MHz Ant1 Peak



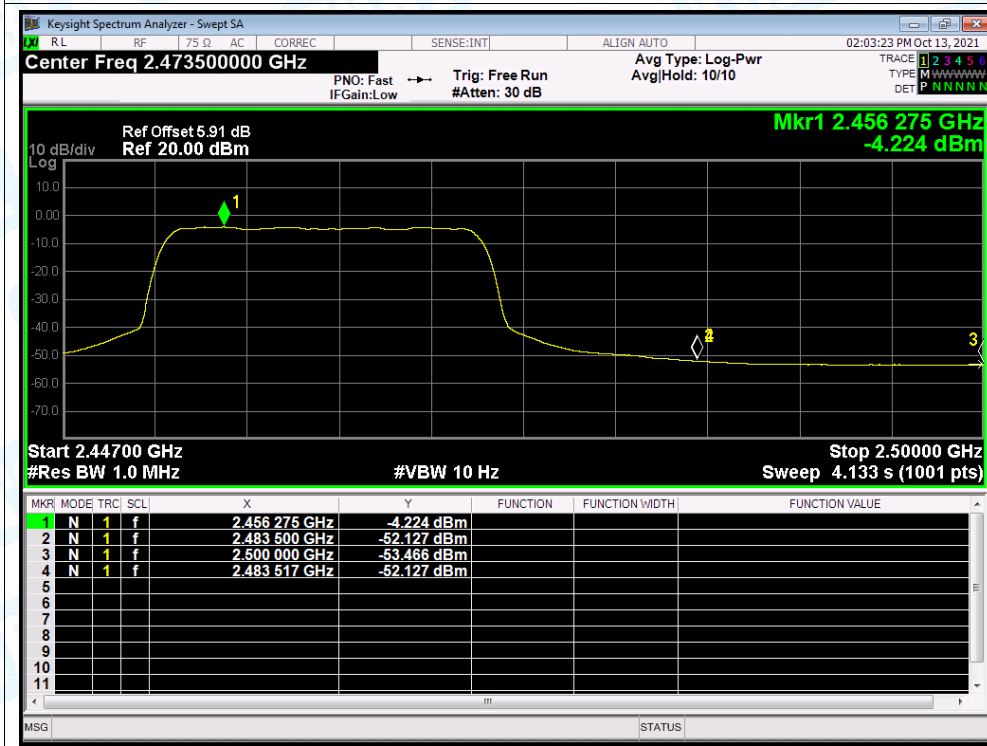
Restrict Band NVNT n(HT20) 2412MHz Ant1 Average



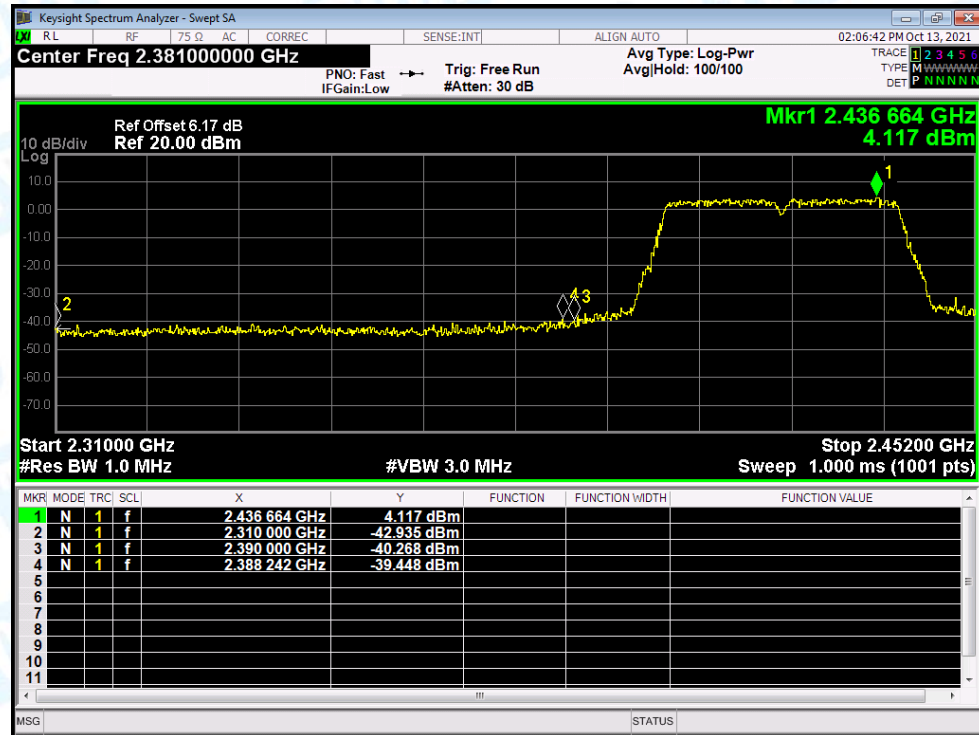
Restrict Band NVNT n(HT20) 2462MHz Ant1 Peak



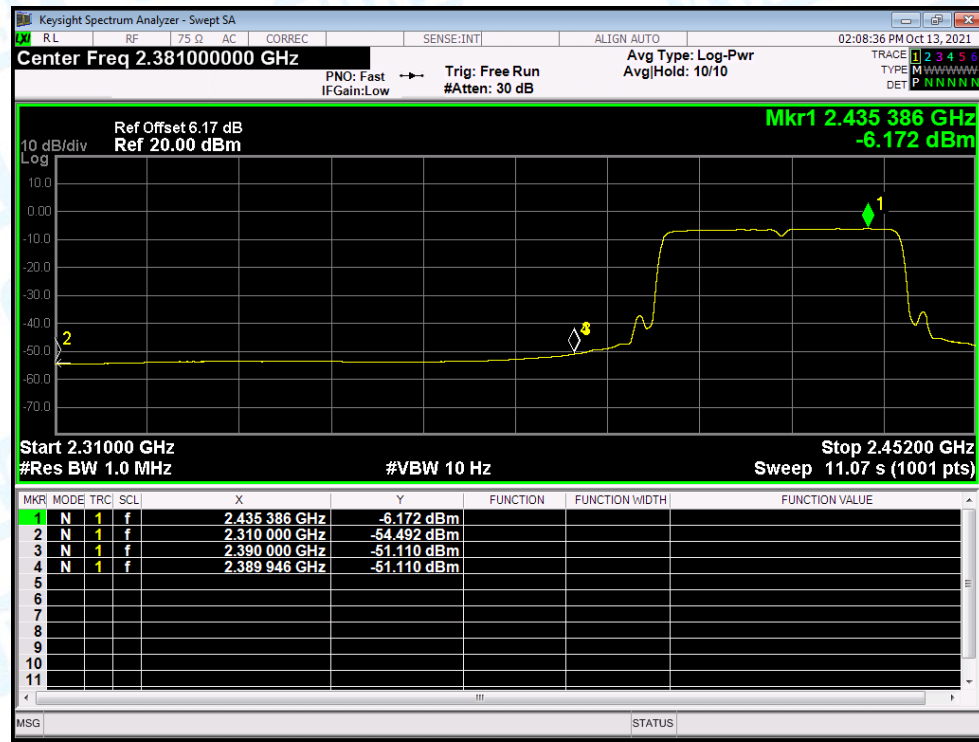
Restrict Band NVNT n(HT20) 2462MHz Ant1 Average



Restrict Band NVNT n(HT40) 2422MHz Ant1 Peak



Restrict Band NVNT n(HT40) 2422MHz Ant1 Average



Restrict Band NVNT n(HT40) 2452MHz Ant1 Peak



Restrict Band NVNT n(HT40) 2452MHz Ant1 Average

