

RF Test Data for 2.4G WiFi (Conducted Measurements)

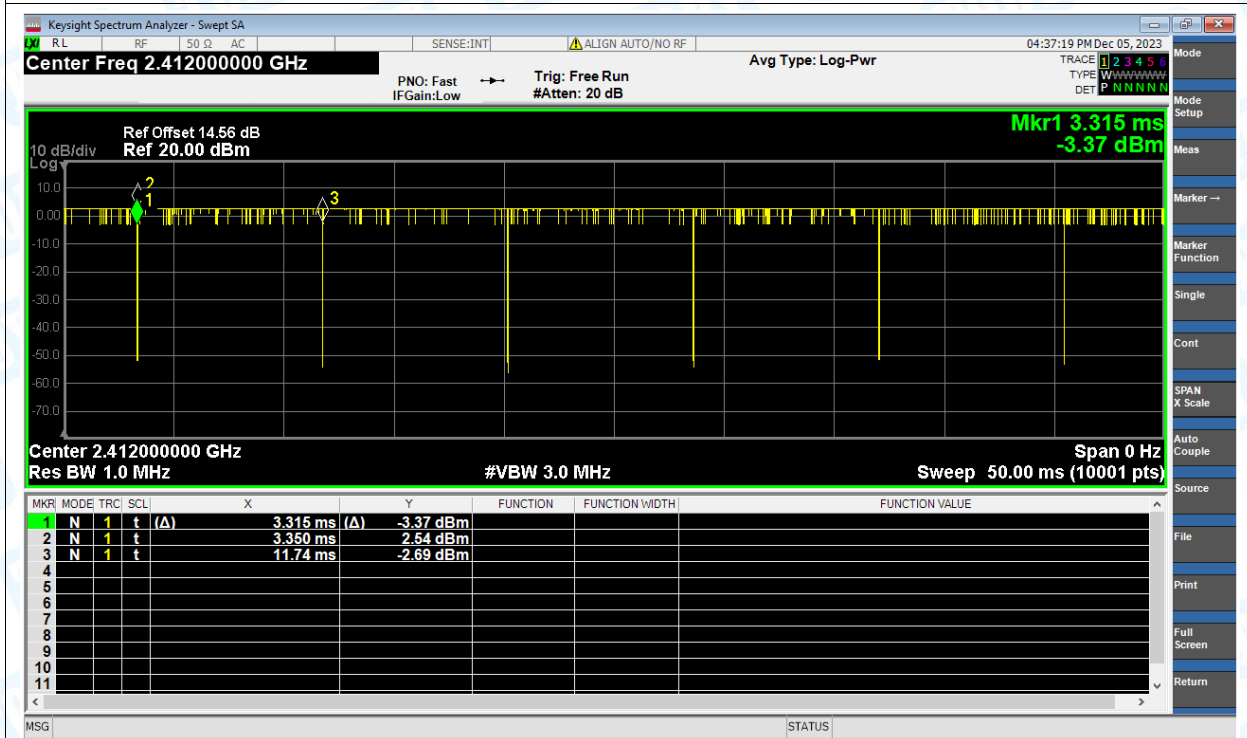
General Description of EUT	
Product Name:	AI>Note
Test Model:	S6
Sample ID:	HC-C-202311-0266-02-01-2#
Environmental Conditions	
Temperature:	23.8°C
Relative Humidity:	48%
Test Voltage:	DC 3.8V
Test Engineer:	Zhou Zhen
Note: For a more detailed features description, please refer to the report TBR-C-202311-0266-32 The report only show the worst case data.	

1. Duty Cycle

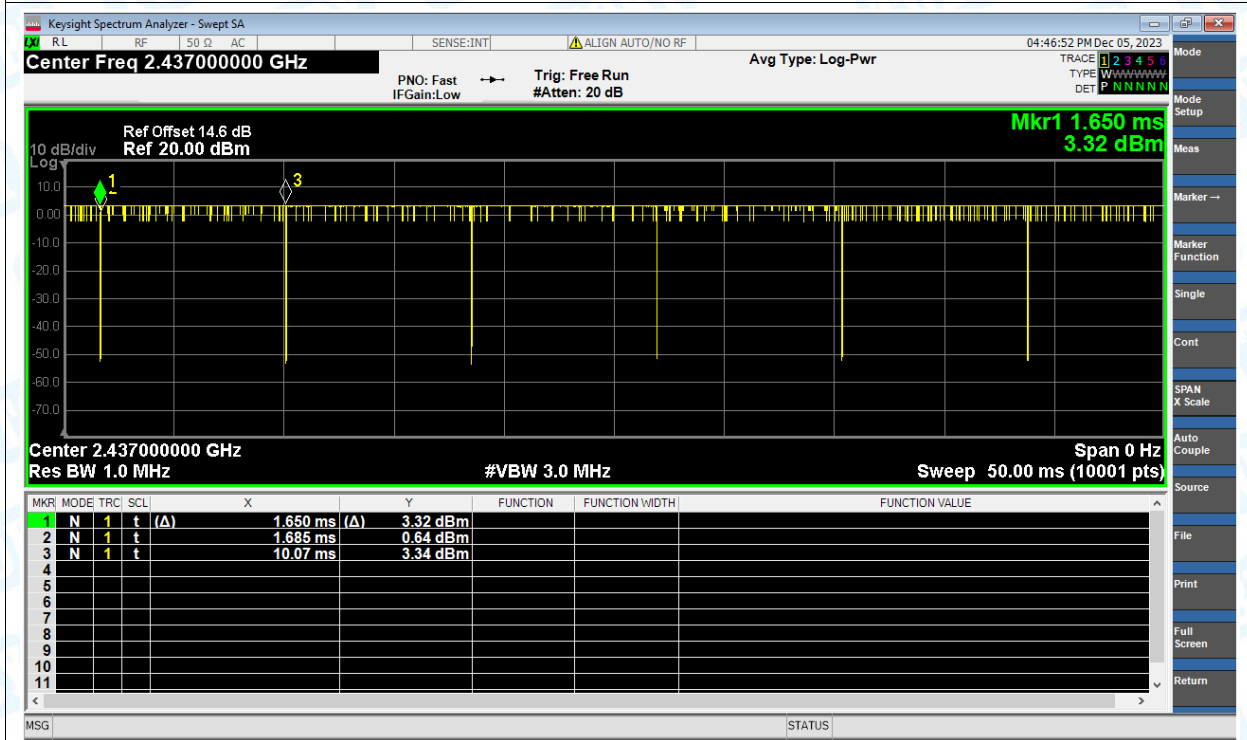
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.58	0.02	0.01
NVNT	b	2437	Ant1	99.58	0.02	0.01
NVNT	b	2462	Ant1	99.64	0.02	0.01
NVNT	g	2412	Ant1	96.86	0.14	0.72
NVNT	g	2437	Ant1	96.87	0.14	0.72
NVNT	g	2462	Ant1	96.86	0.14	0.72
NVNT	n(HT20)	2412	Ant1	96.70	0.15	0.78
NVNT	n(HT20)	2437	Ant1	96.70	0.15	0.78
NVNT	n(HT20)	2462	Ant1	96.70	0.15	0.78
NVNT	n(HT40)	2422	Ant1	93.38	0.30	1.57
NVNT	n(HT40)	2437	Ant1	93.38	0.30	1.57
NVNT	n(HT40)	2452	Ant1	94.12	0.26	1.56

Test Graphs

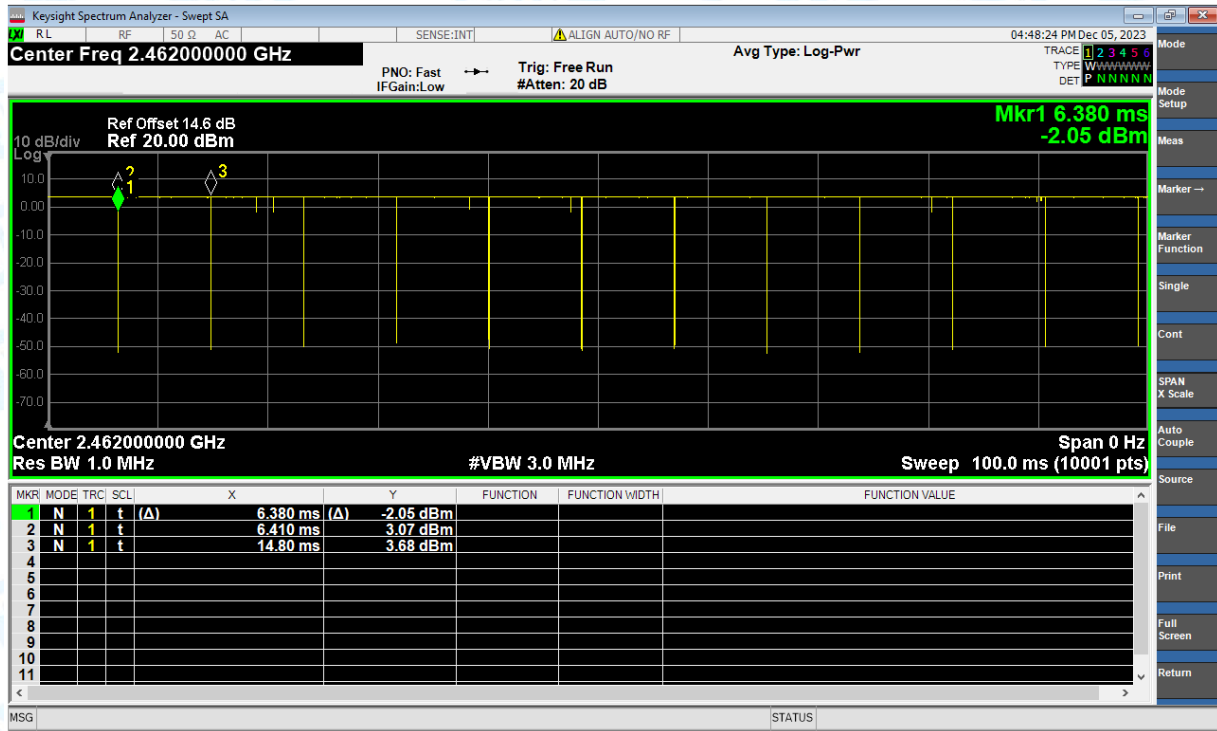
Duty Cycle NVNT b 2412MHz Ant1



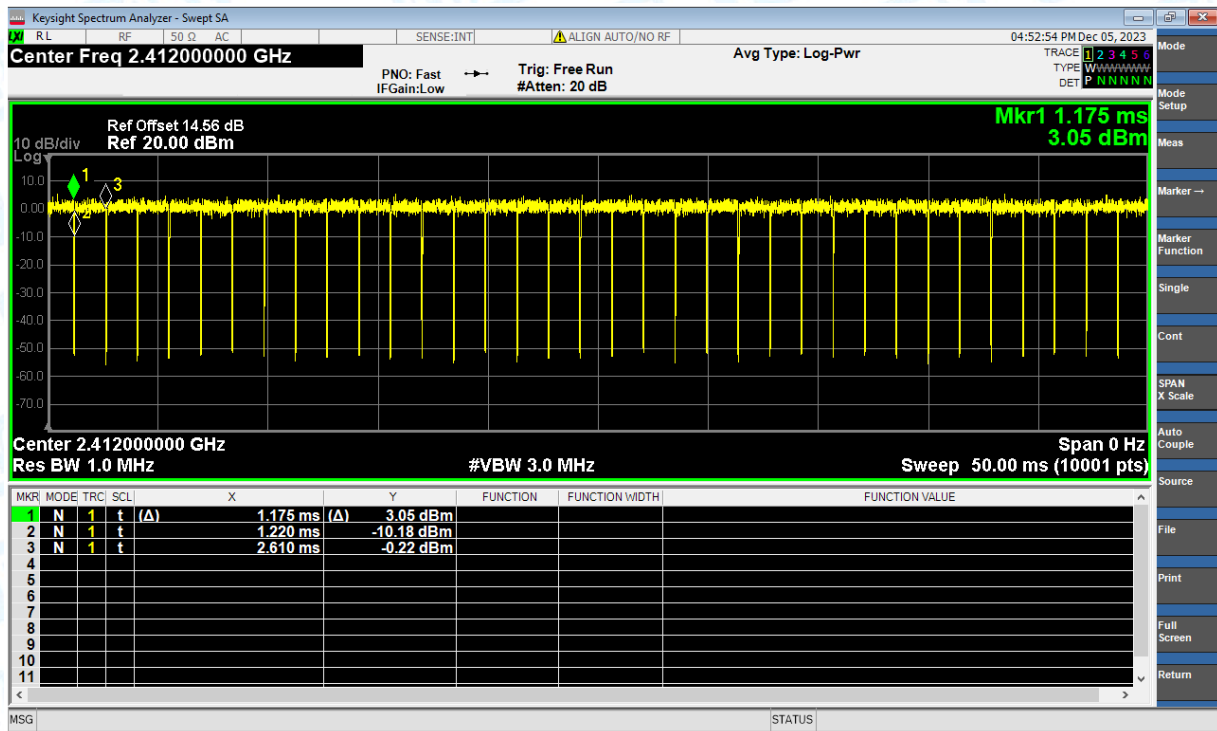
Duty Cycle NVNT b 2437MHz Ant1



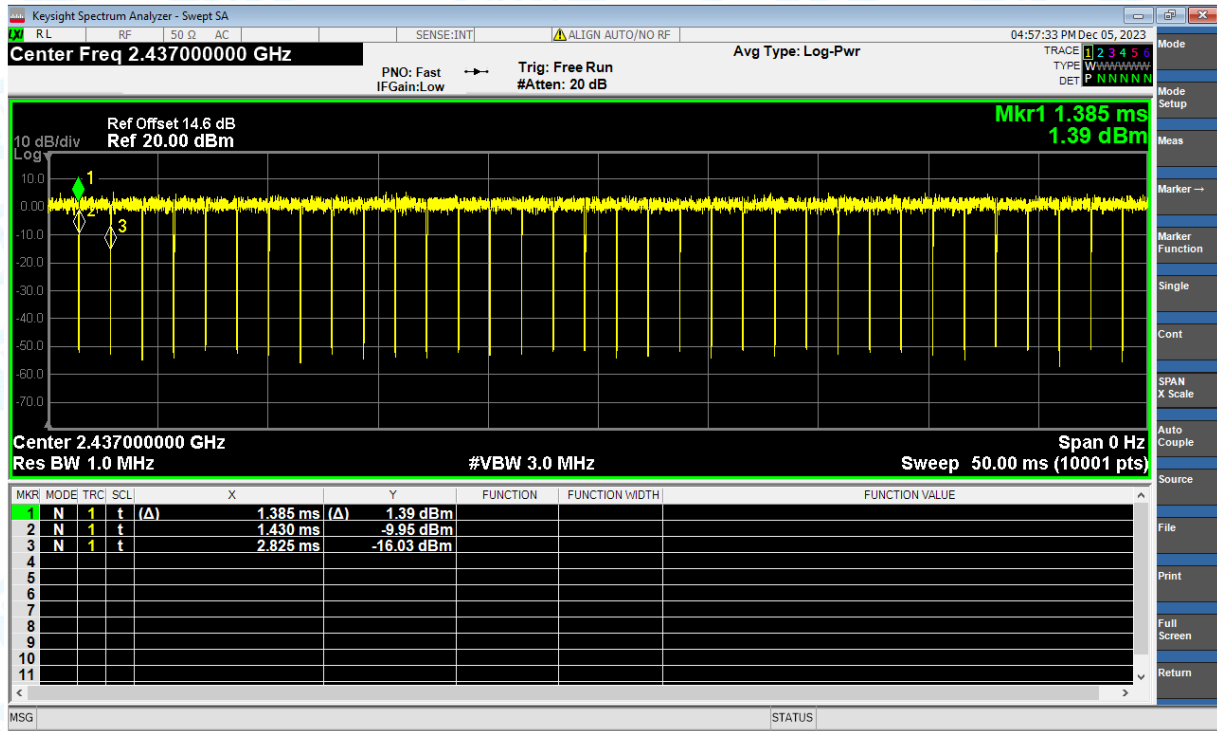
Duty Cycle NVNT b 2462MHz Ant1



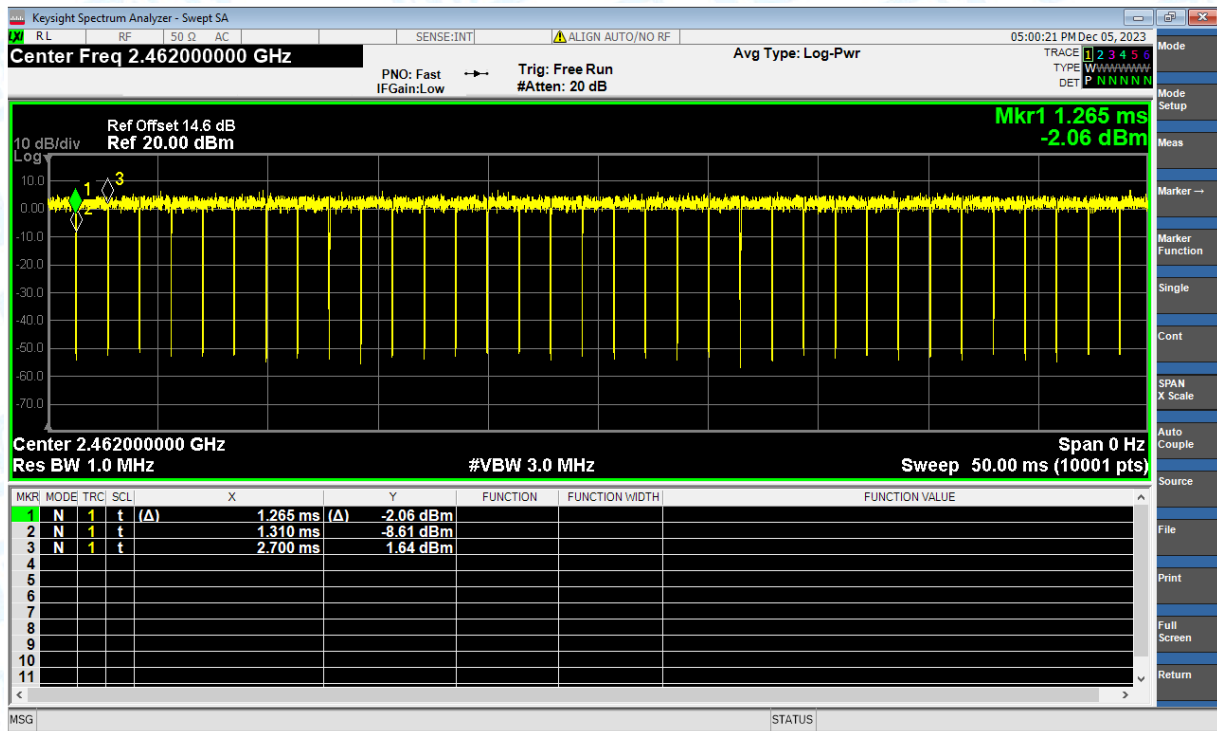
Duty Cycle NVNT g 2412MHz Ant1



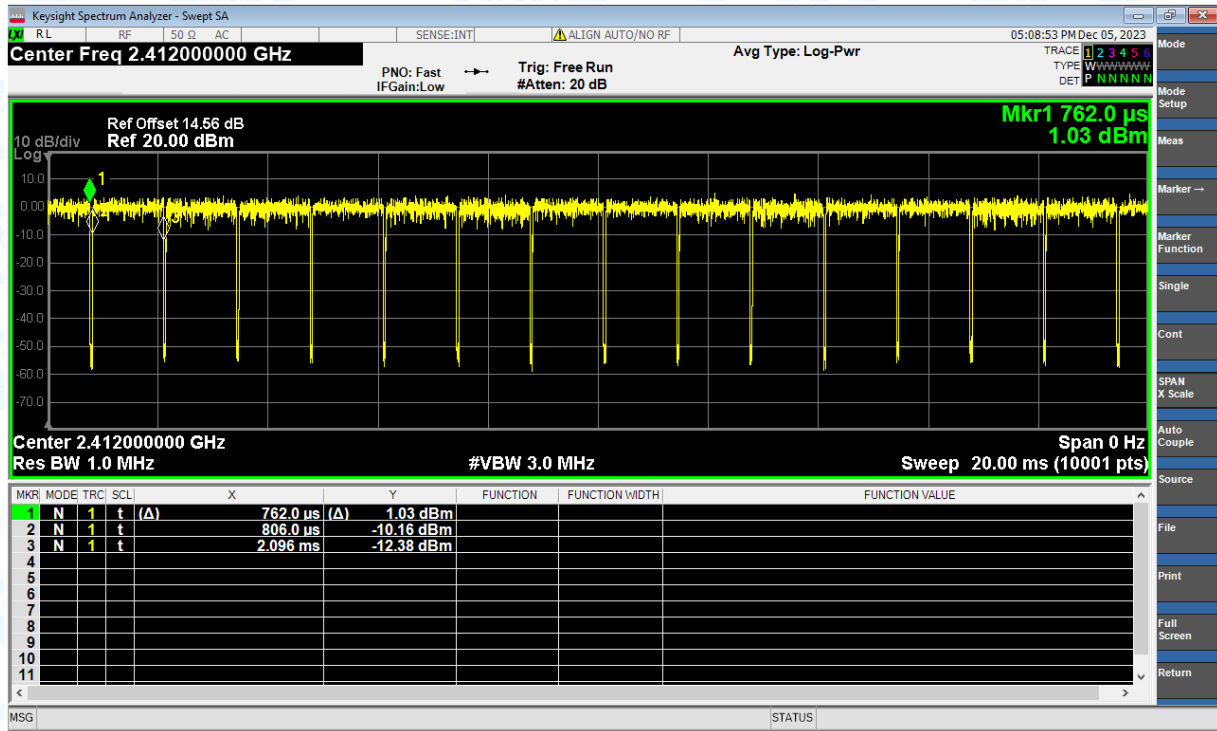
Duty Cycle NVNT g 2437MHz Ant1



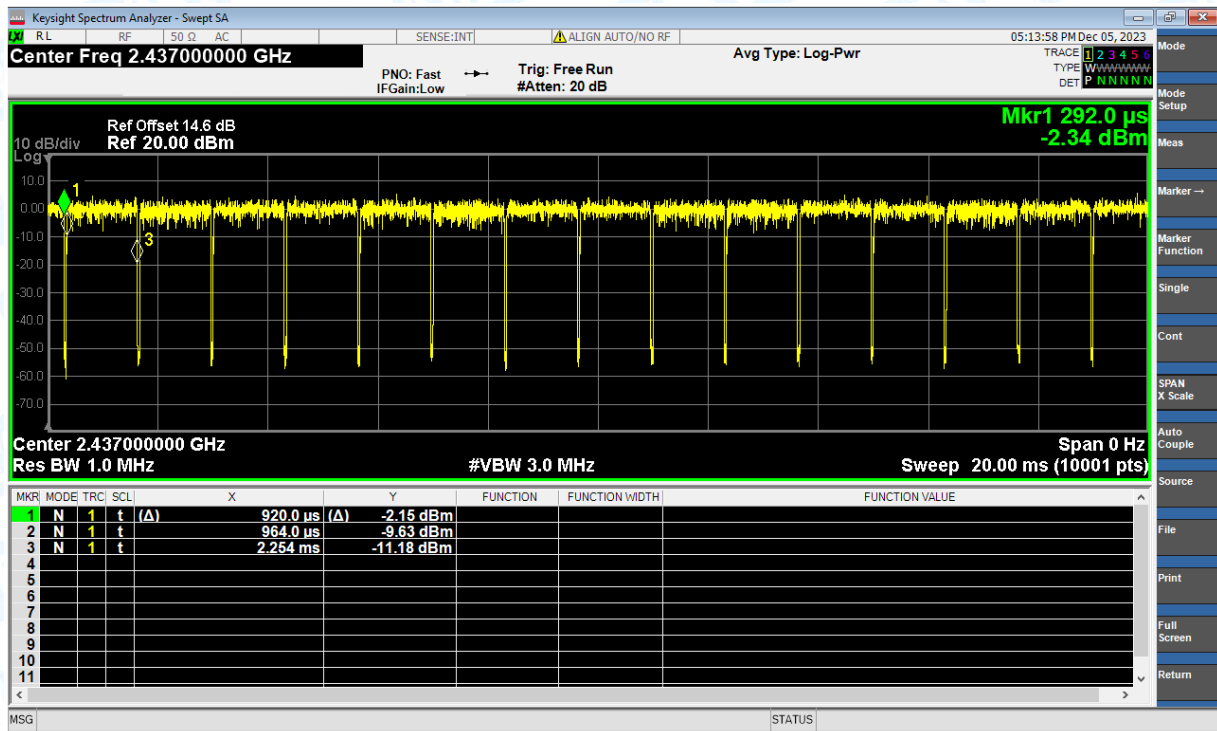
Duty Cycle NVNT g 2462MHz Ant1



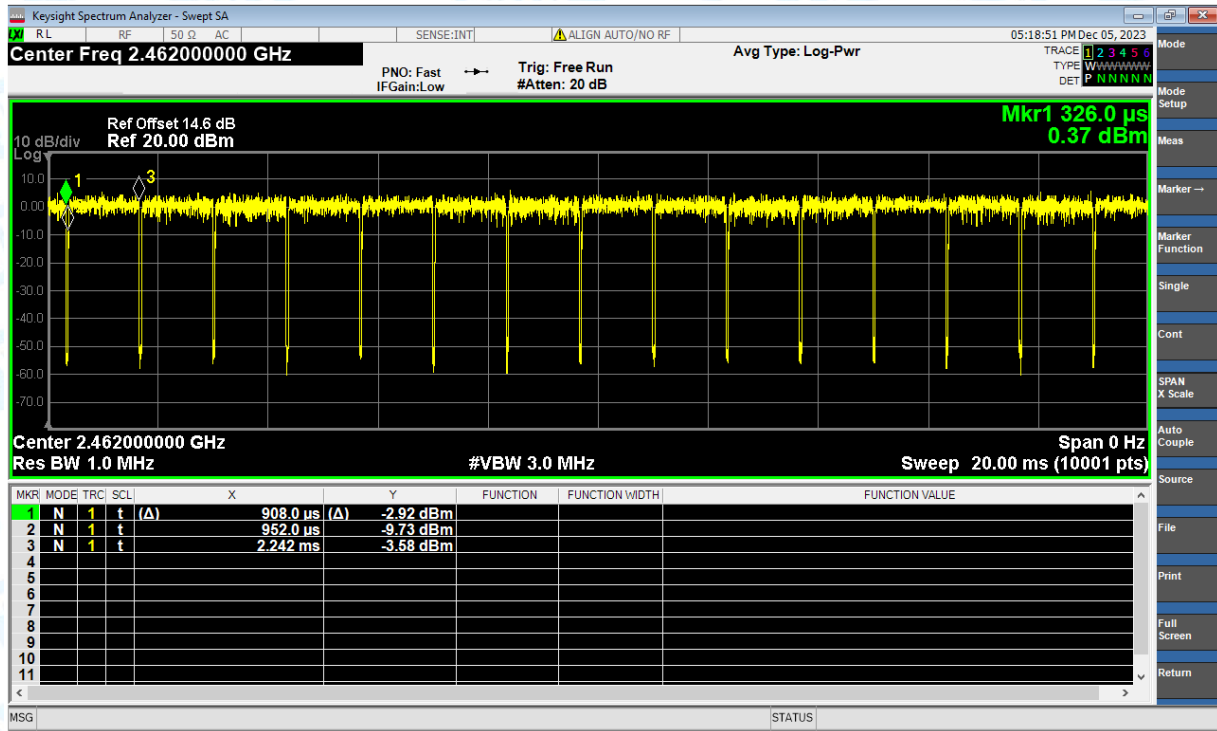
Duty Cycle NVNT n(HT20) 2412MHz Ant1



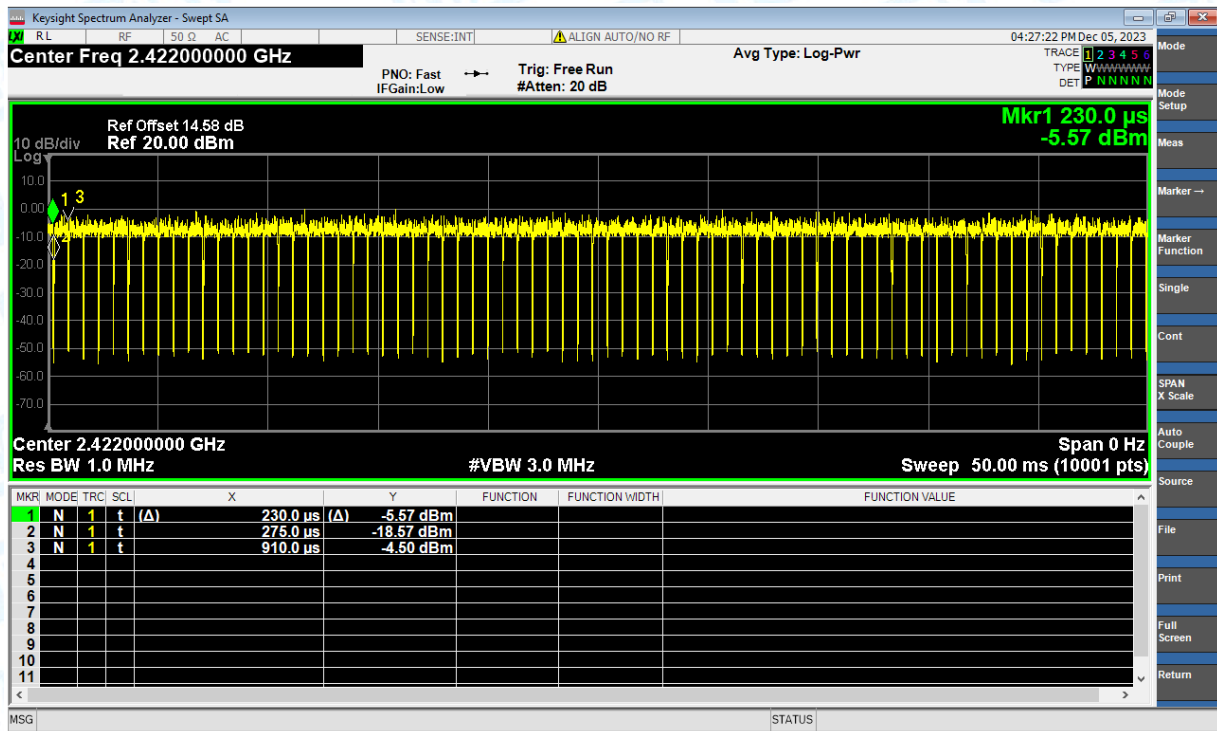
Duty Cycle NVNT n(HT20) 2437MHz Ant1



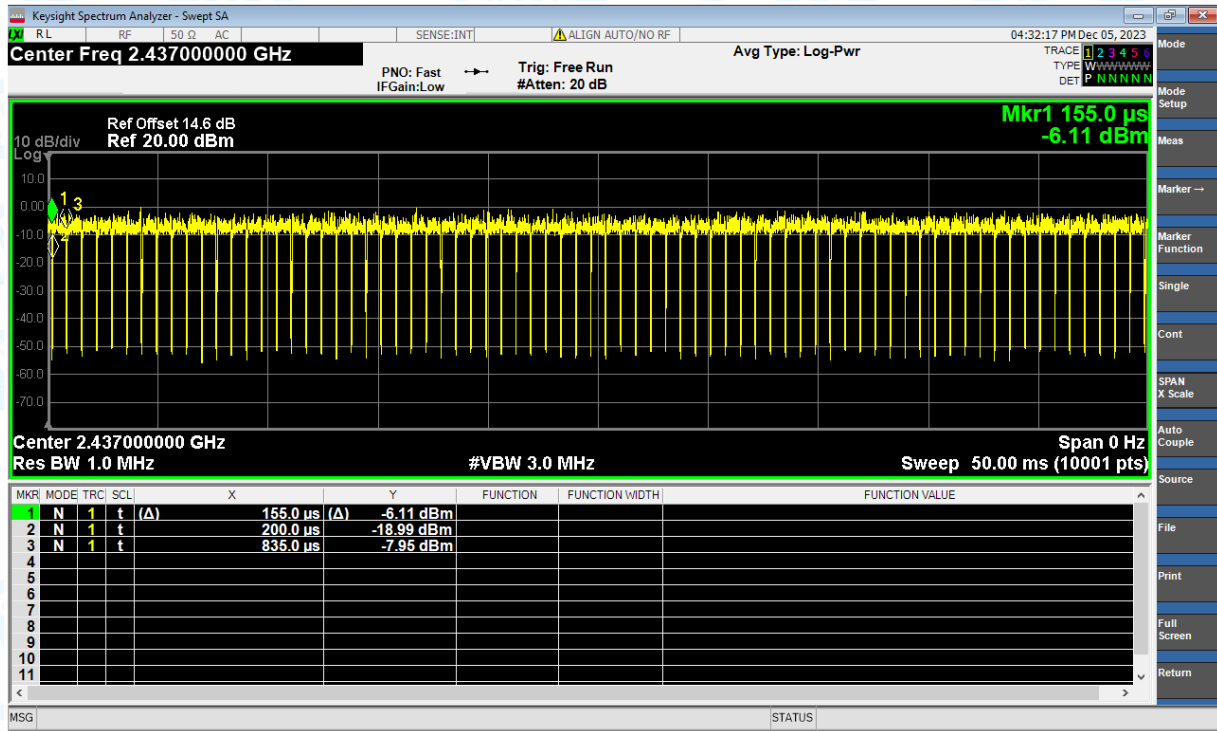
Duty Cycle NVNT n(HT20) 2462MHz Ant1



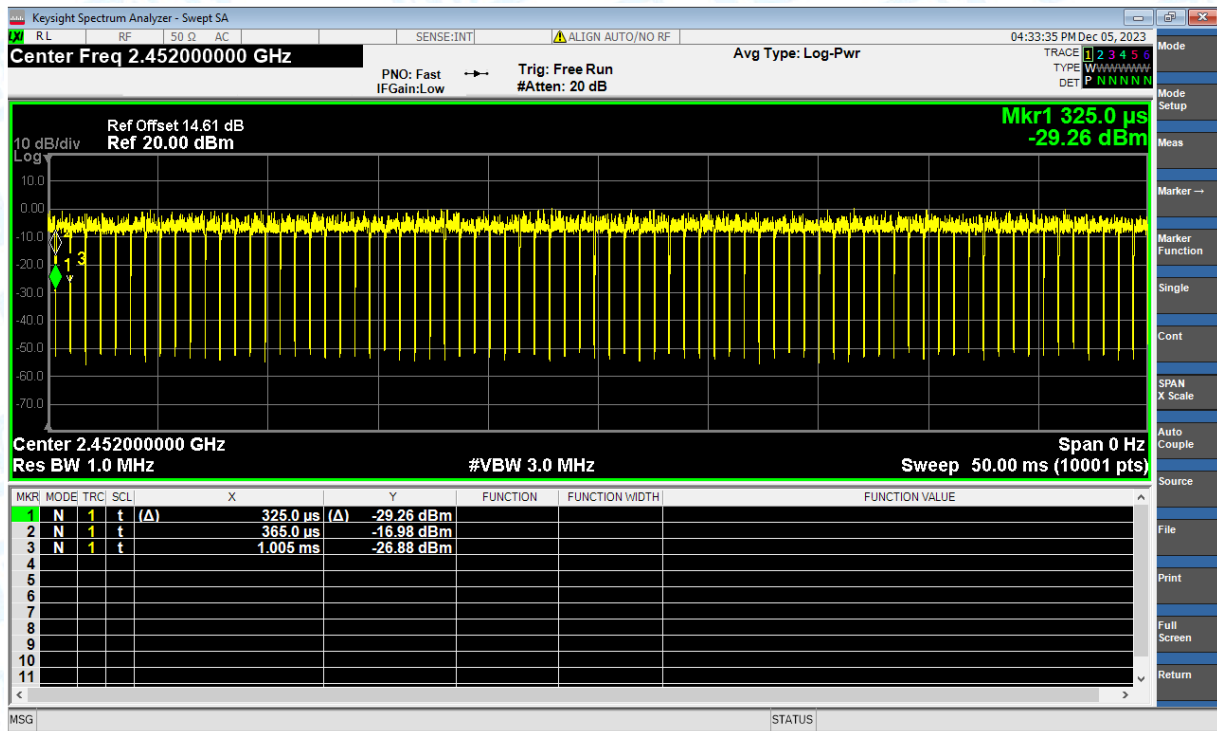
Duty Cycle NVNT n(HT40) 2422MHz Ant1



Duty Cycle NVNT n(HT40) 2437MHz Ant1



Duty Cycle NVNT n(HT40) 2452MHz Ant1



2. Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	7.15	30	Pass
NVNT	b	2437	Ant1	7.75	30	Pass
NVNT	b	2462	Ant1	7.52	30	Pass
NVNT	g	2412	Ant1	7.07	30	Pass
NVNT	g	2437	Ant1	7.54	30	Pass
NVNT	g	2462	Ant1	7.52	30	Pass
NVNT	n(HT20)	2412	Ant1	6.92	30	Pass
NVNT	n(HT20)	2437	Ant1	7.45	30	Pass
NVNT	n(HT20)	2462	Ant1	7.32	30	Pass
NVNT	n(HT40)	2422	Ant1	7.15	30	Pass
NVNT	n(HT40)	2437	Ant1	7.08	30	Pass
NVNT	n(HT40)	2452	Ant1	7.63	30	Pass

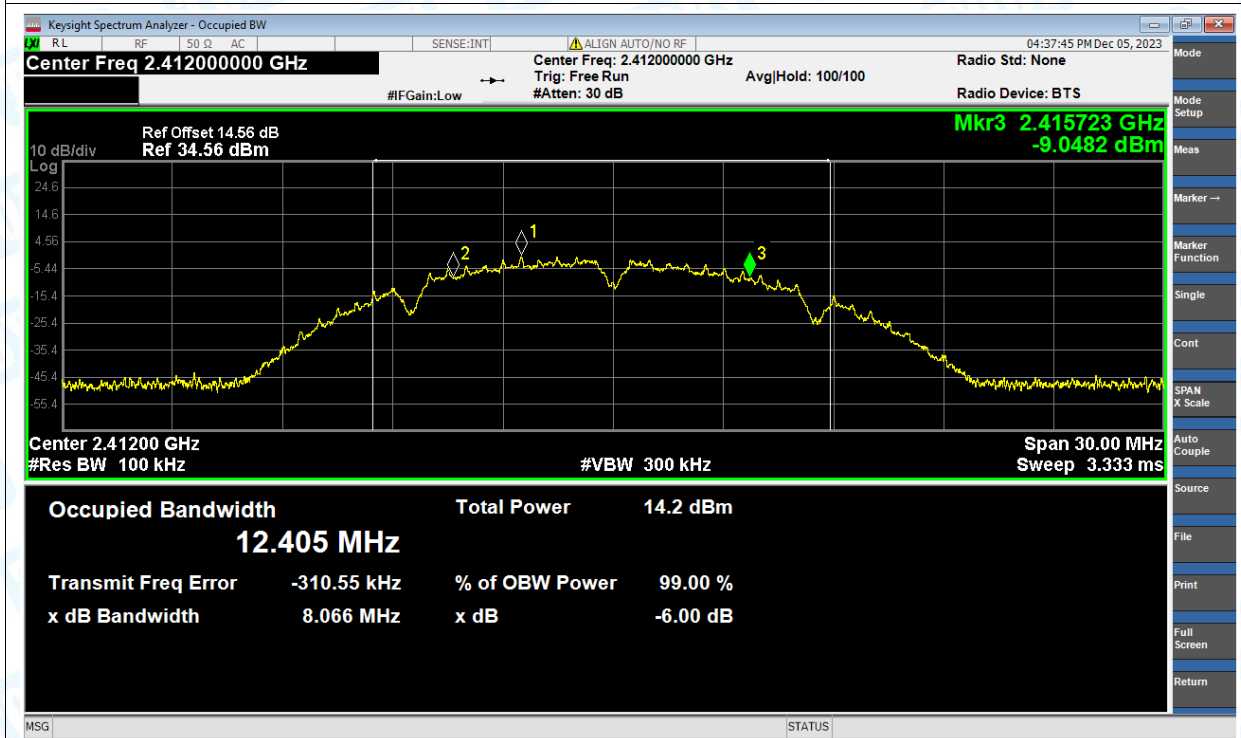
Note: The Duty Cycle Factor is compensated in the graph.

3. -6dB Bandwidth

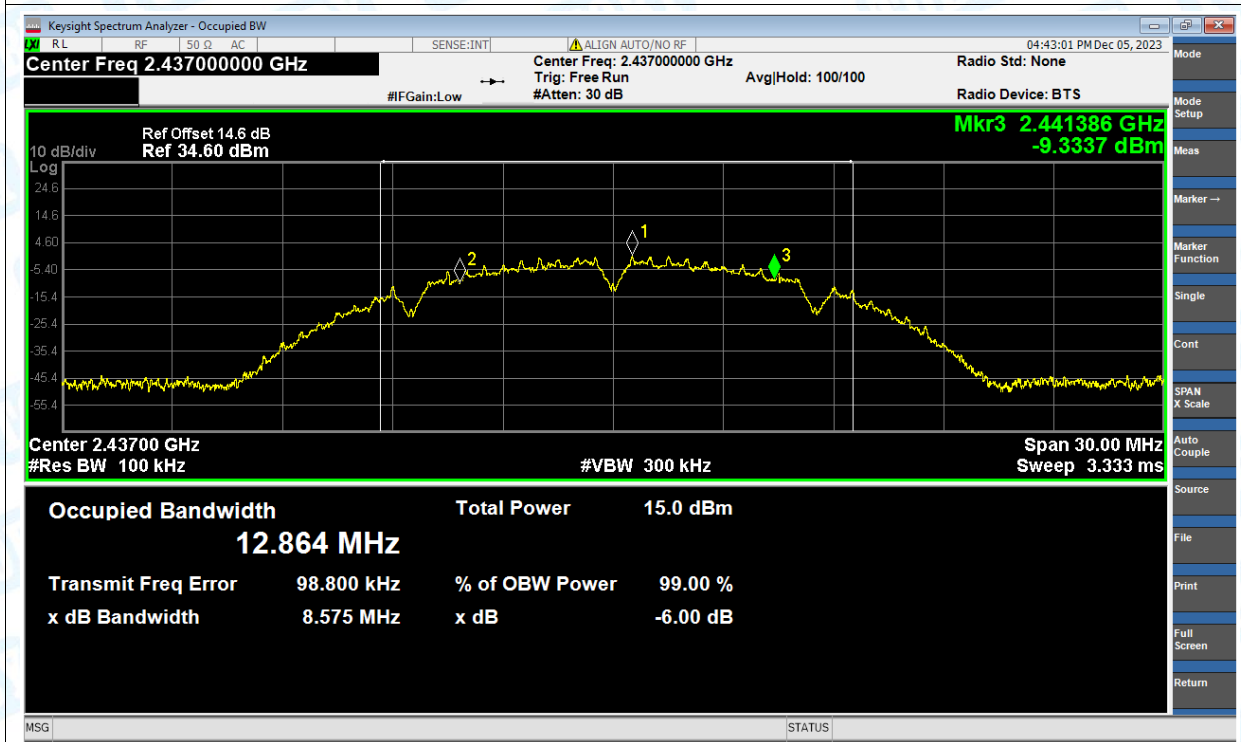
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	8.07	0.5	Pass
NVNT	b	2437	Ant1	8.58	0.5	Pass
NVNT	b	2462	Ant1	7.06	0.5	Pass
NVNT	g	2412	Ant1	12.62	0.5	Pass
NVNT	g	2437	Ant1	16.32	0.5	Pass
NVNT	g	2462	Ant1	11.29	0.5	Pass
NVNT	n(HT20)	2412	Ant1	14.38	0.5	Pass
NVNT	n(HT20)	2437	Ant1	16.07	0.5	Pass
NVNT	n(HT20)	2462	Ant1	15.06	0.5	Pass
NVNT	n(HT40)	2422	Ant1	26.63	0.5	Pass
NVNT	n(HT40)	2437	Ant1	35.76	0.5	Pass
NVNT	n(HT40)	2452	Ant1	23.84	0.5	Pass

Test Graphs

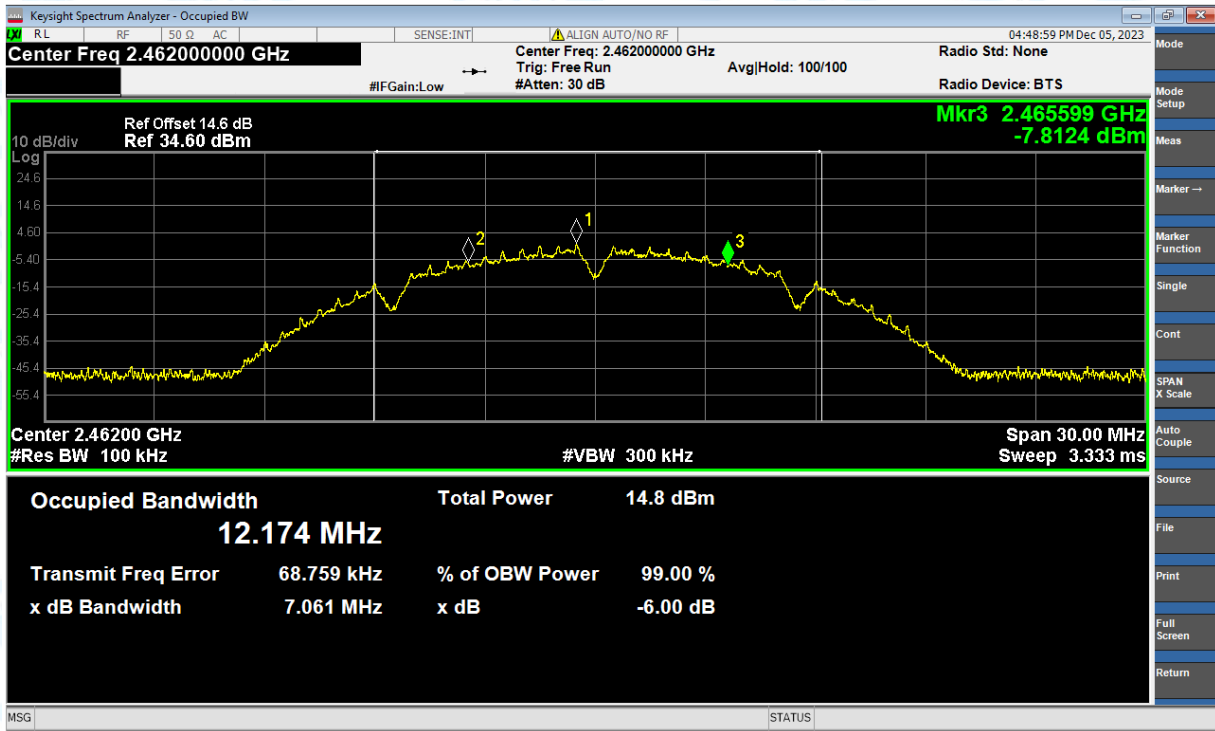
-6dB Bandwidth NVNT b 2412MHz Ant1



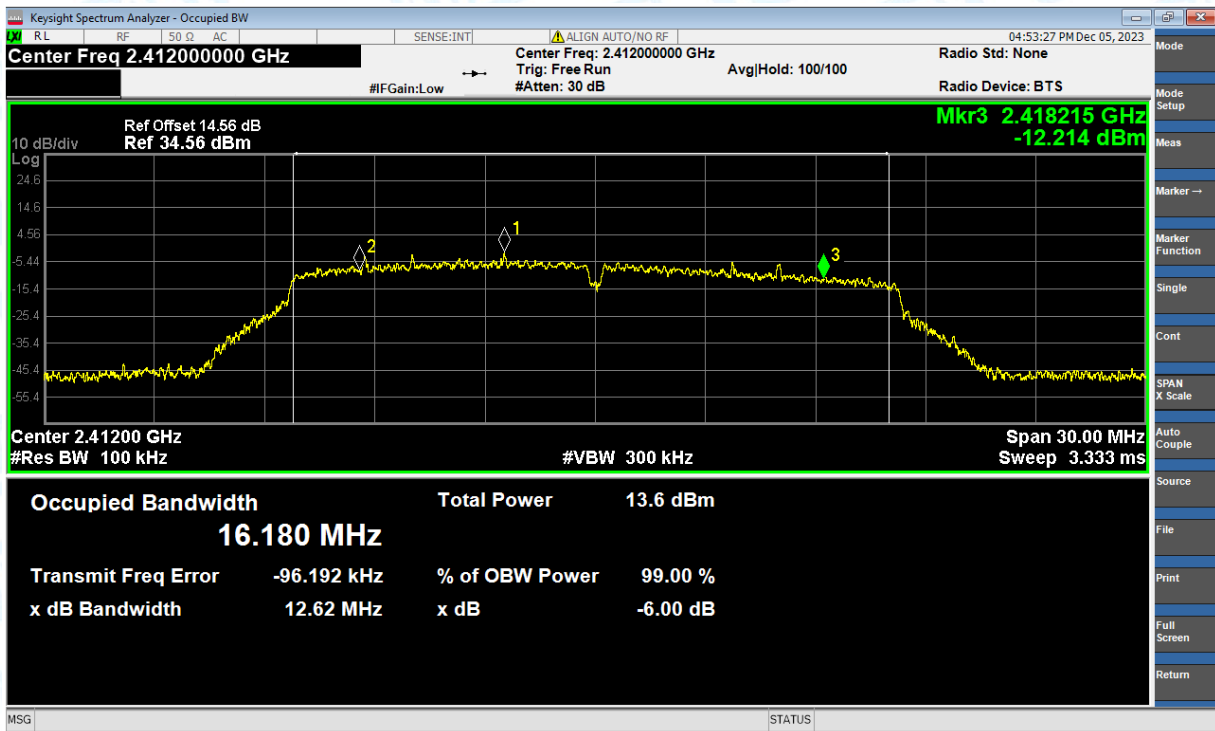
-6dB Bandwidth NVNT b 2437MHz Ant1



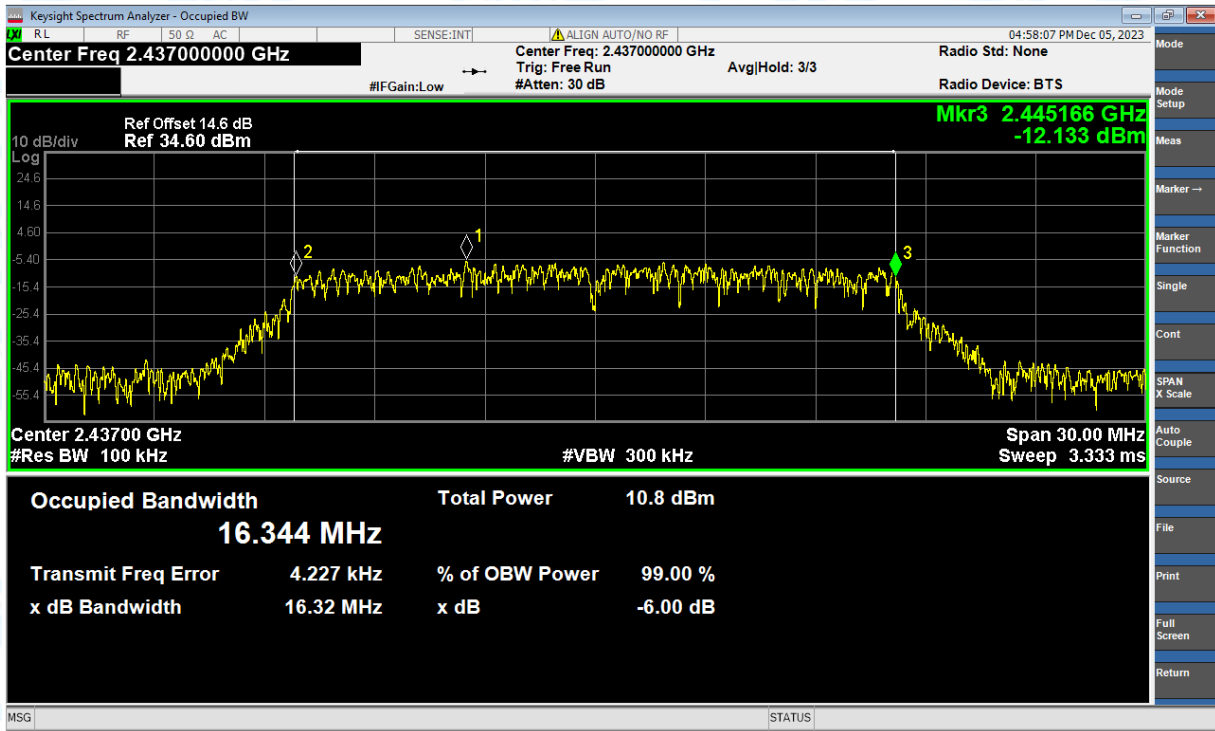
-6dB Bandwidth NVNT b 2462MHz Ant1



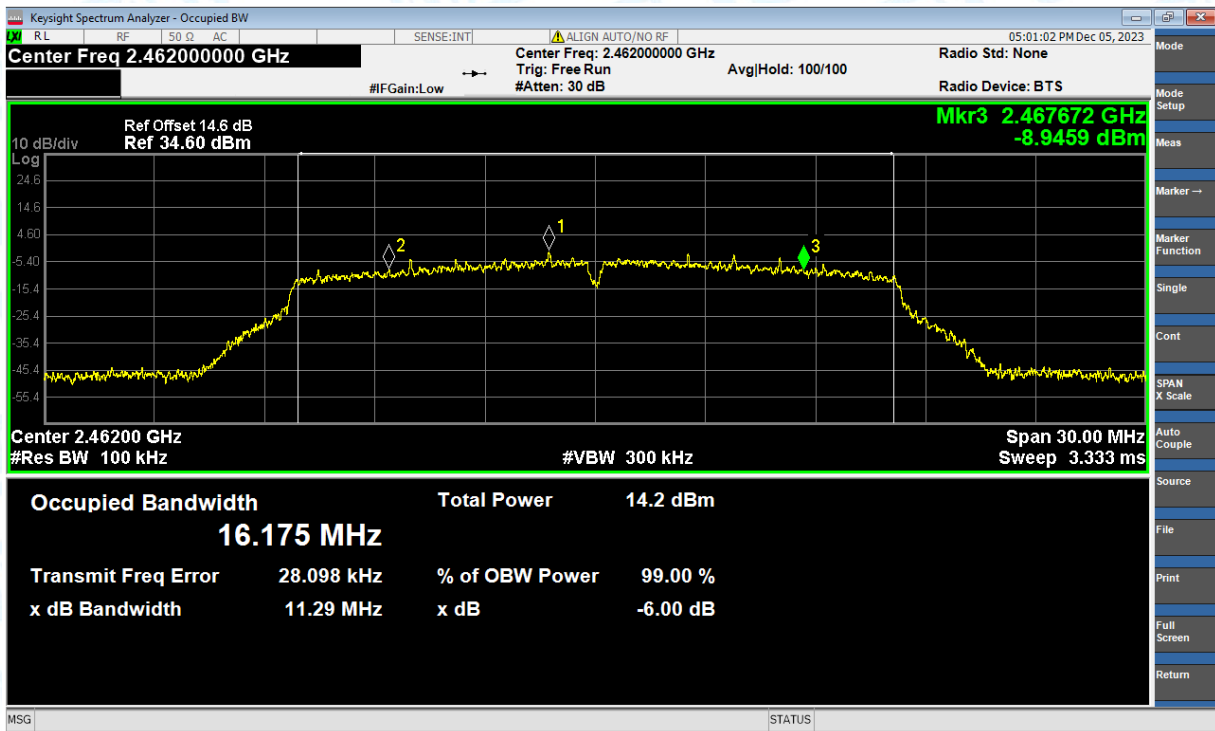
-6dB Bandwidth NVNT g 2412MHz Ant1



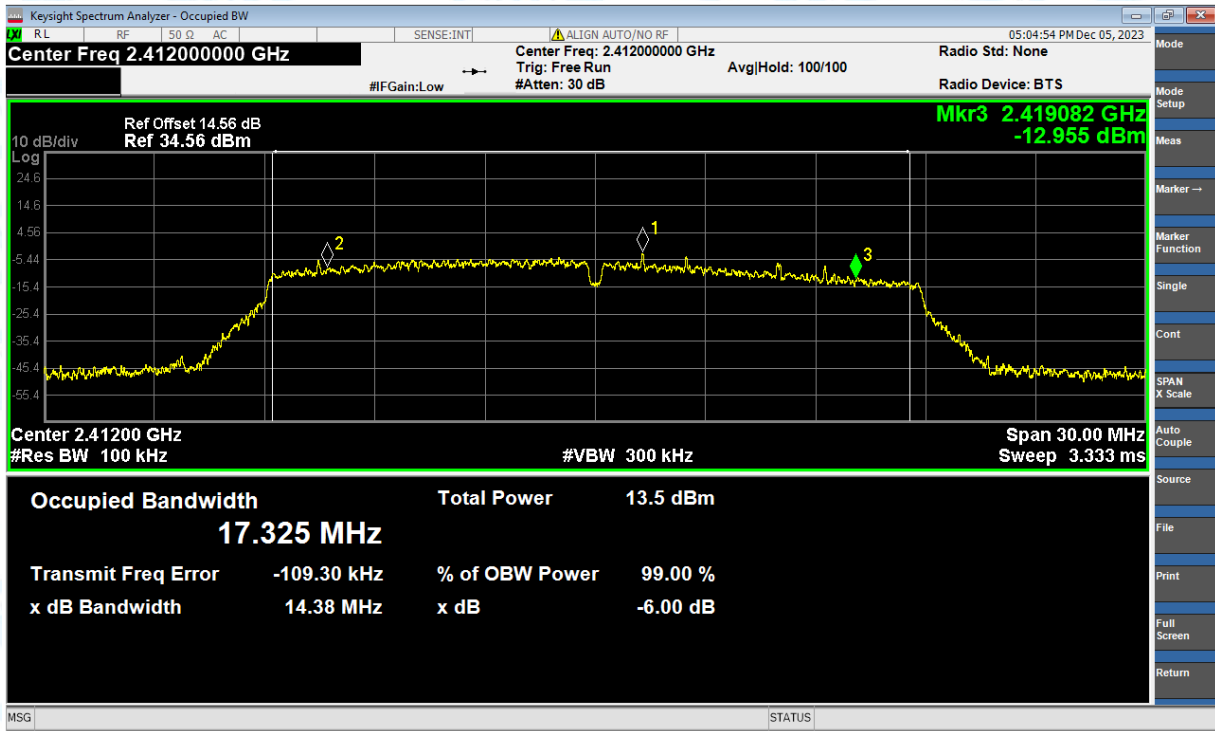
-6dB Bandwidth NVNT g 2437MHz Ant1



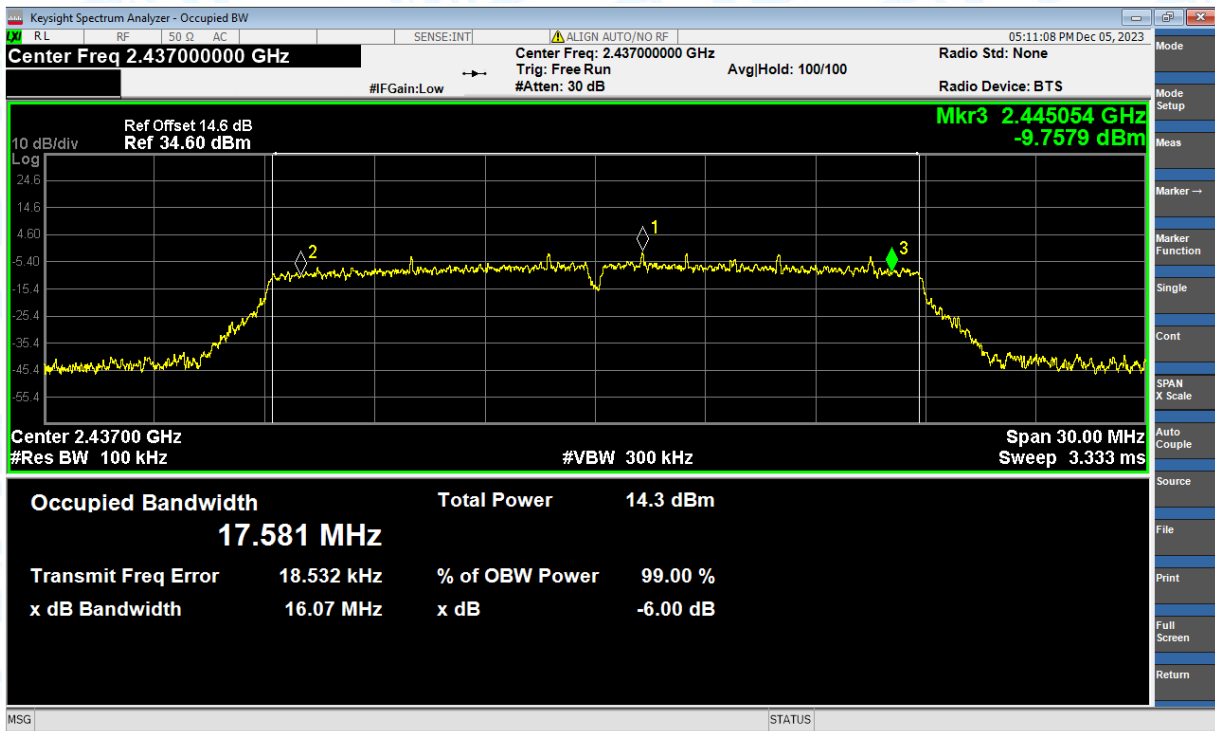
-6dB Bandwidth NVNT g 2462MHz Ant1



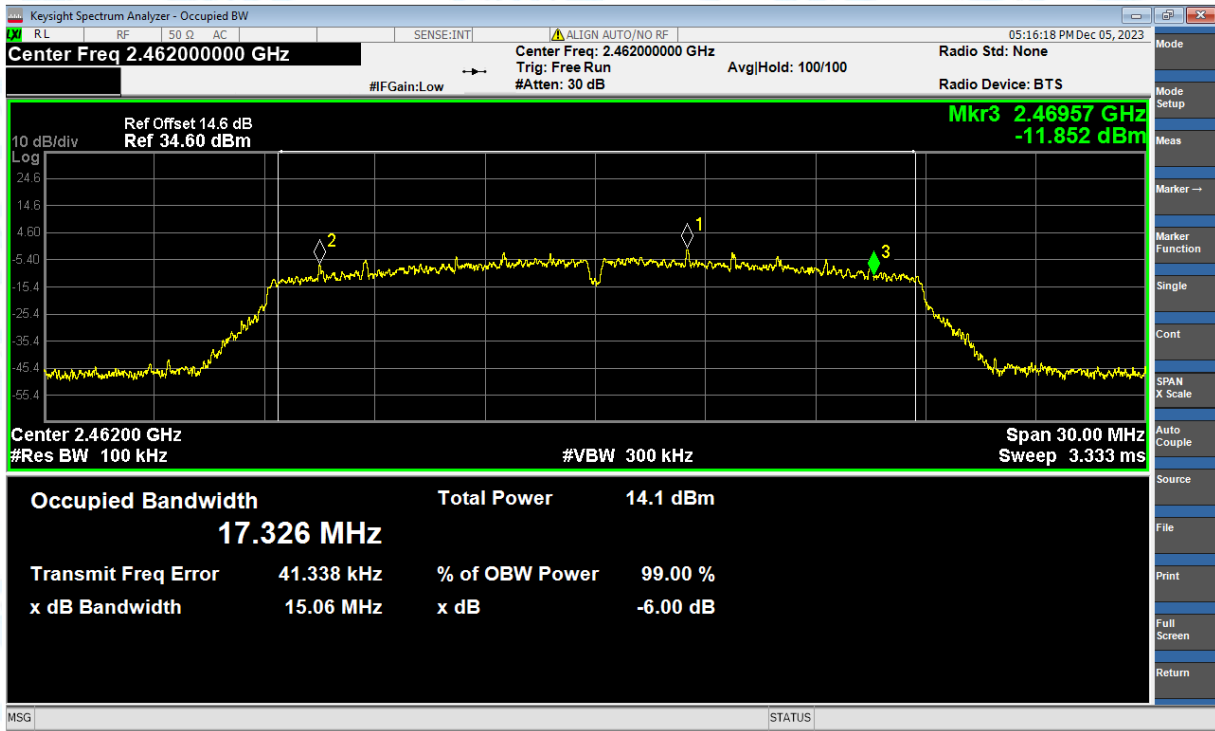
-6dB Bandwidth NVNT n(HT20) 2412MHz Ant1



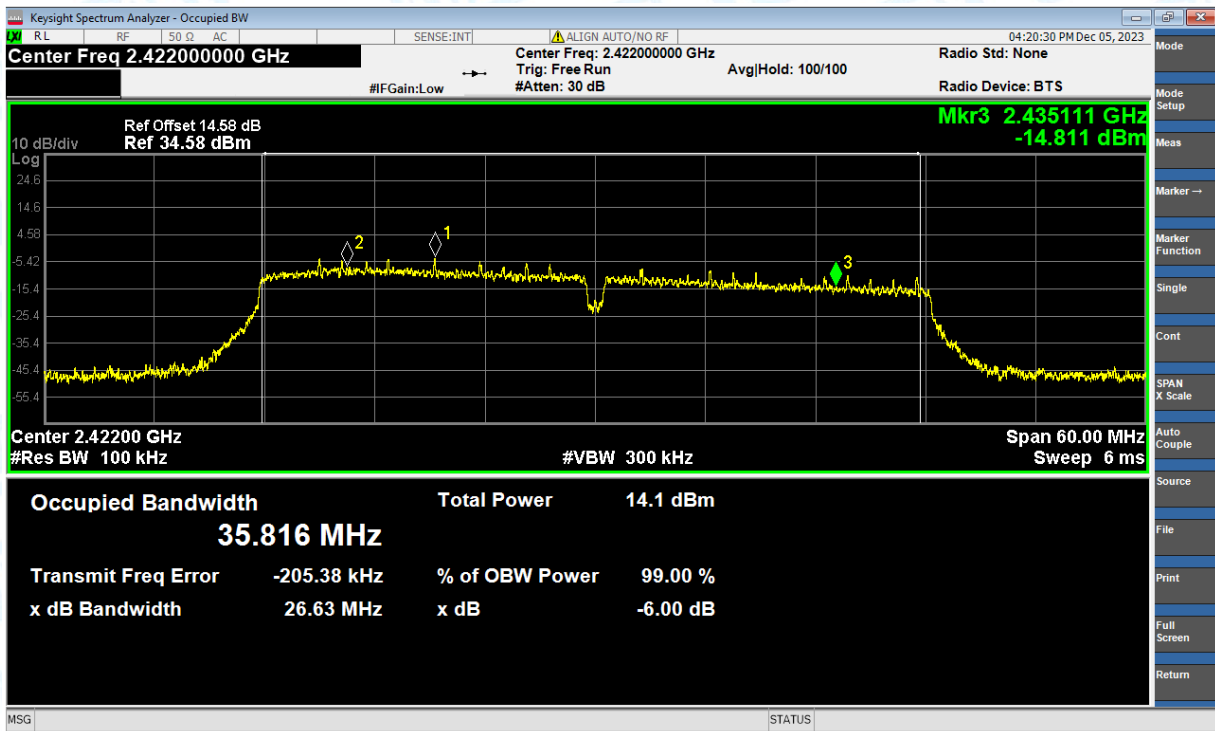
-6dB Bandwidth NVNT n(HT20) 2437MHz Ant1



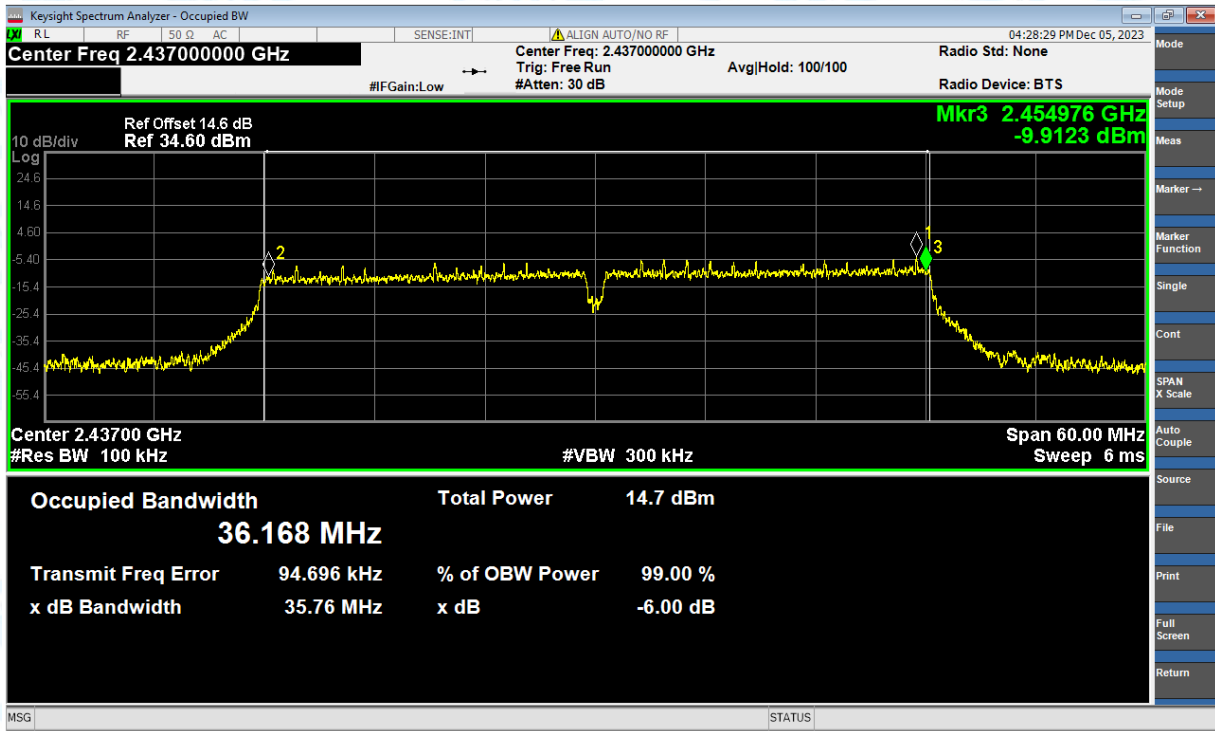
-6dB Bandwidth NVNT n(HT20) 2462MHz Ant1



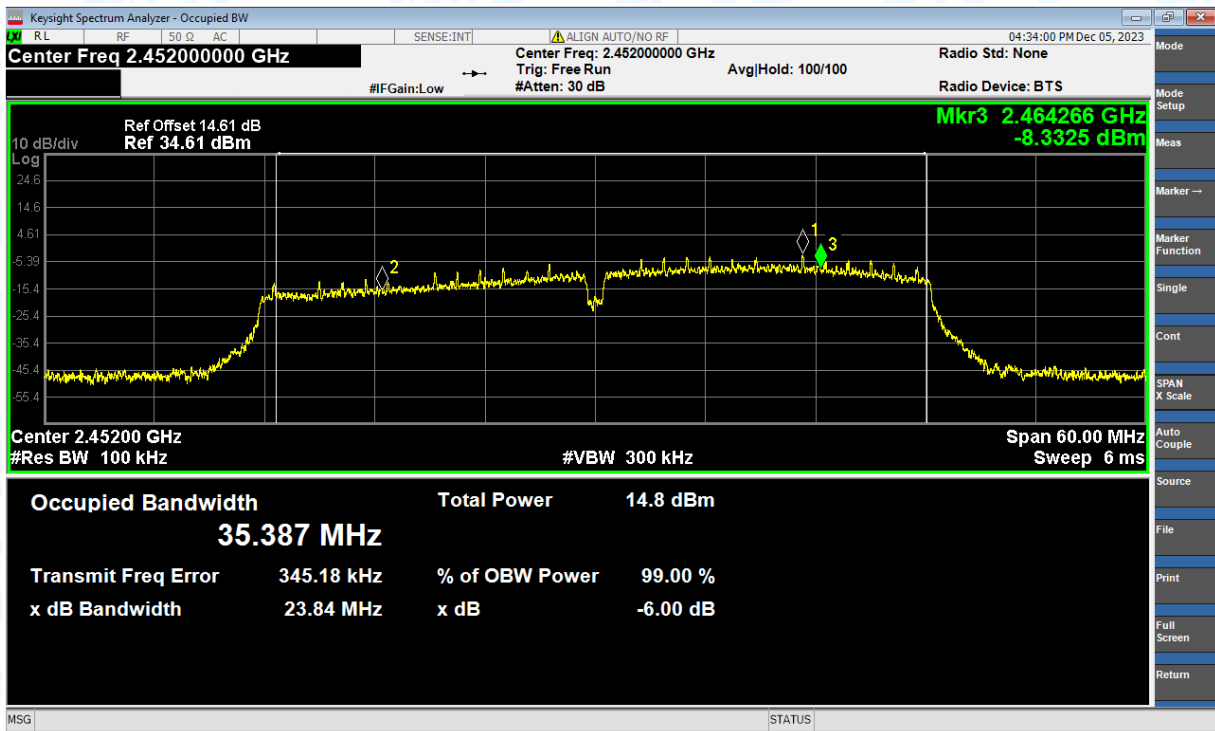
-6dB Bandwidth NVNT n(HT40) 2422MHz Ant1



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



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

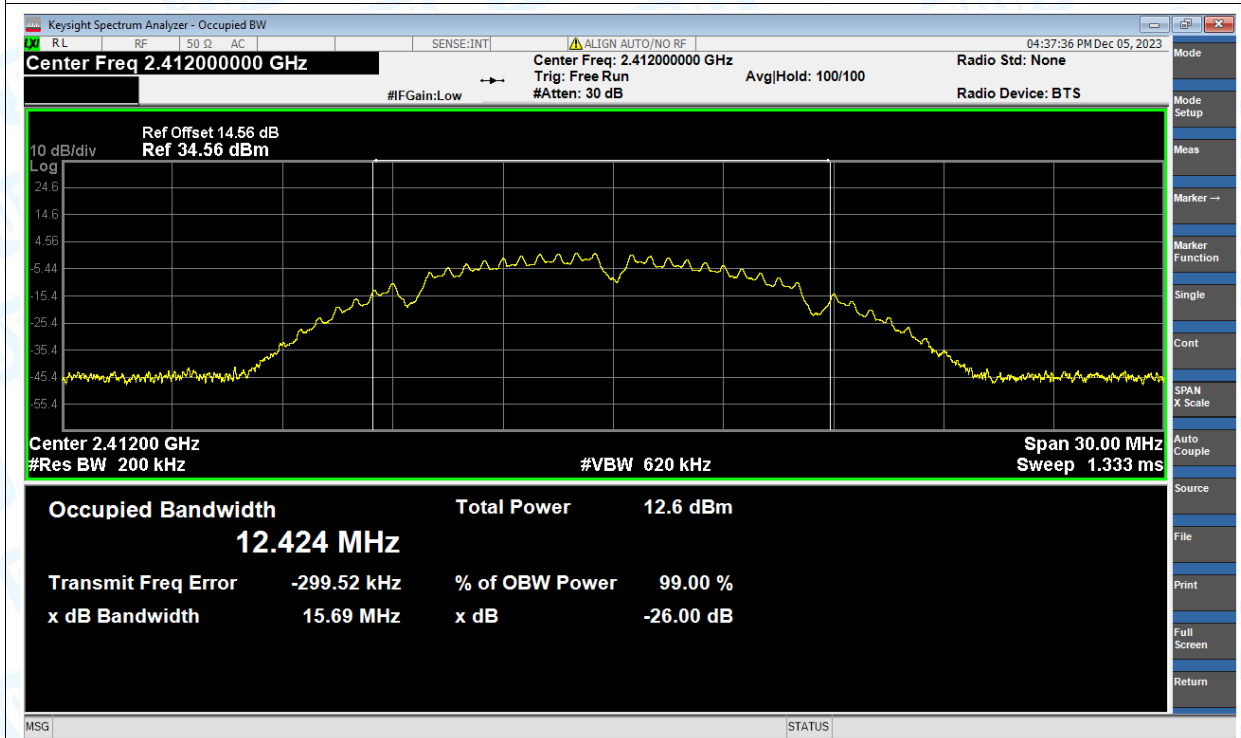


4. Occupied Channel Bandwidth

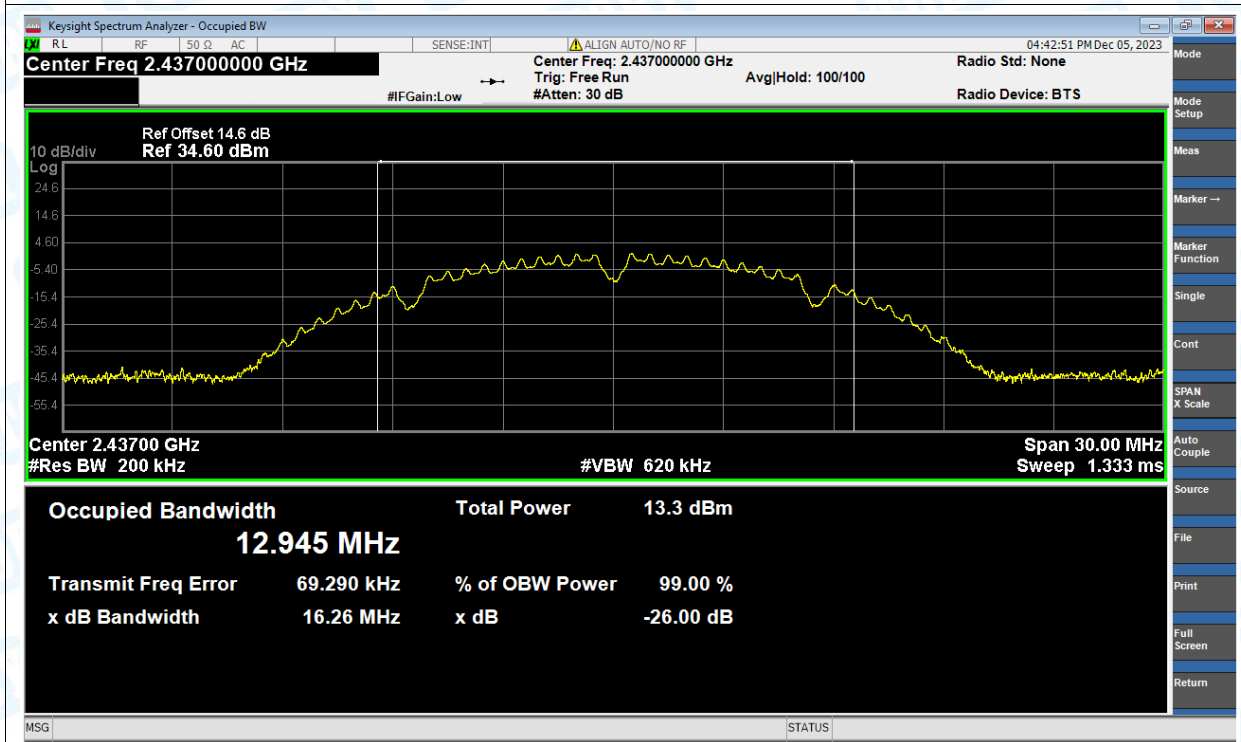
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	12.424
NVNT	b	2437	Ant1	12.945
NVNT	b	2462	Ant1	12.198
NVNT	g	2412	Ant1	16.184
NVNT	g	2437	Ant1	16.524
NVNT	g	2462	Ant1	16.177
NVNT	n(HT20)	2412	Ant1	17.320
NVNT	n(HT20)	2437	Ant1	17.645
NVNT	n(HT20)	2462	Ant1	17.323
NVNT	n(HT40)	2422	Ant1	35.932
NVNT	n(HT40)	2437	Ant1	36.466
NVNT	n(HT40)	2452	Ant1	35.397

Test Graphs

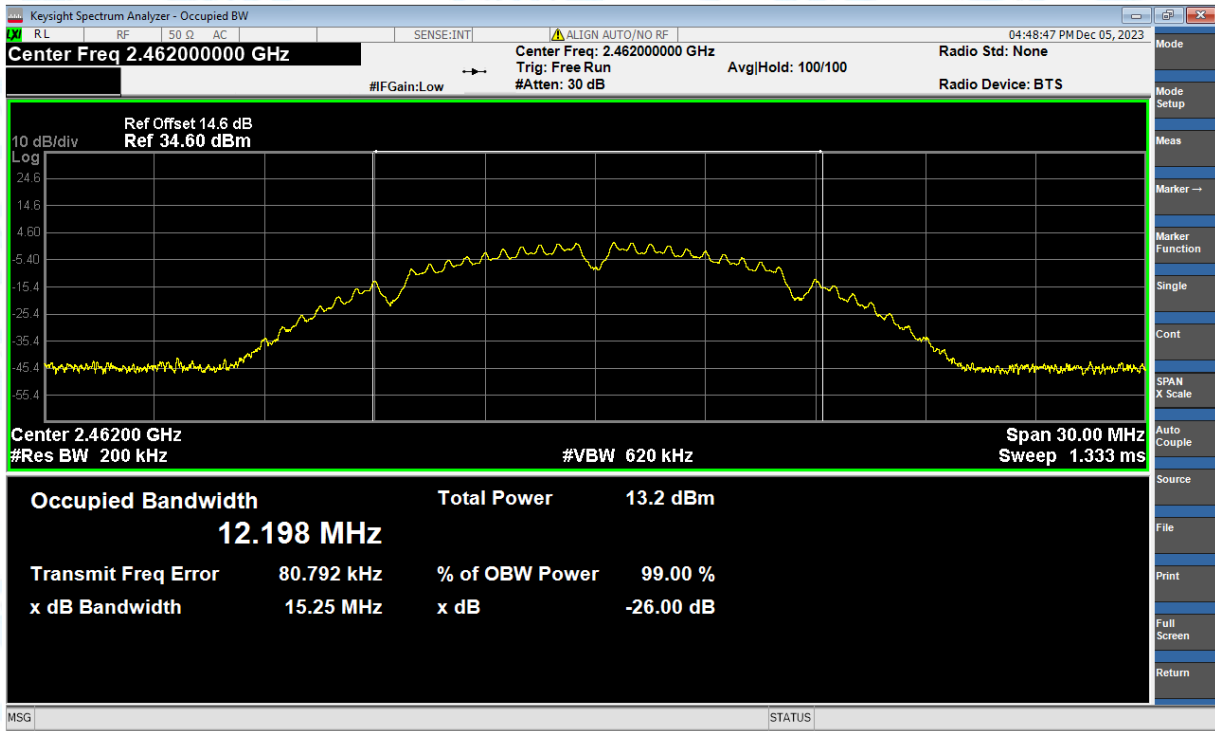
OBW NVNT b 2412MHz Ant1



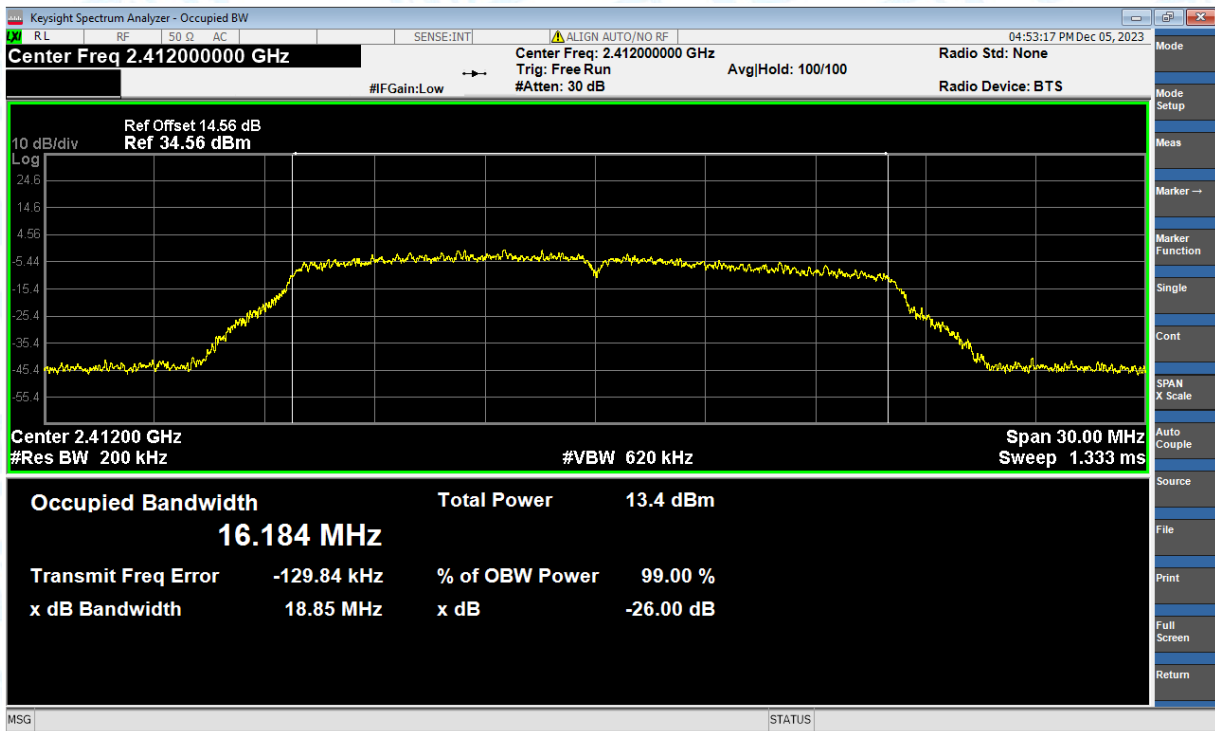
OBW NVNT b 2437MHz Ant1



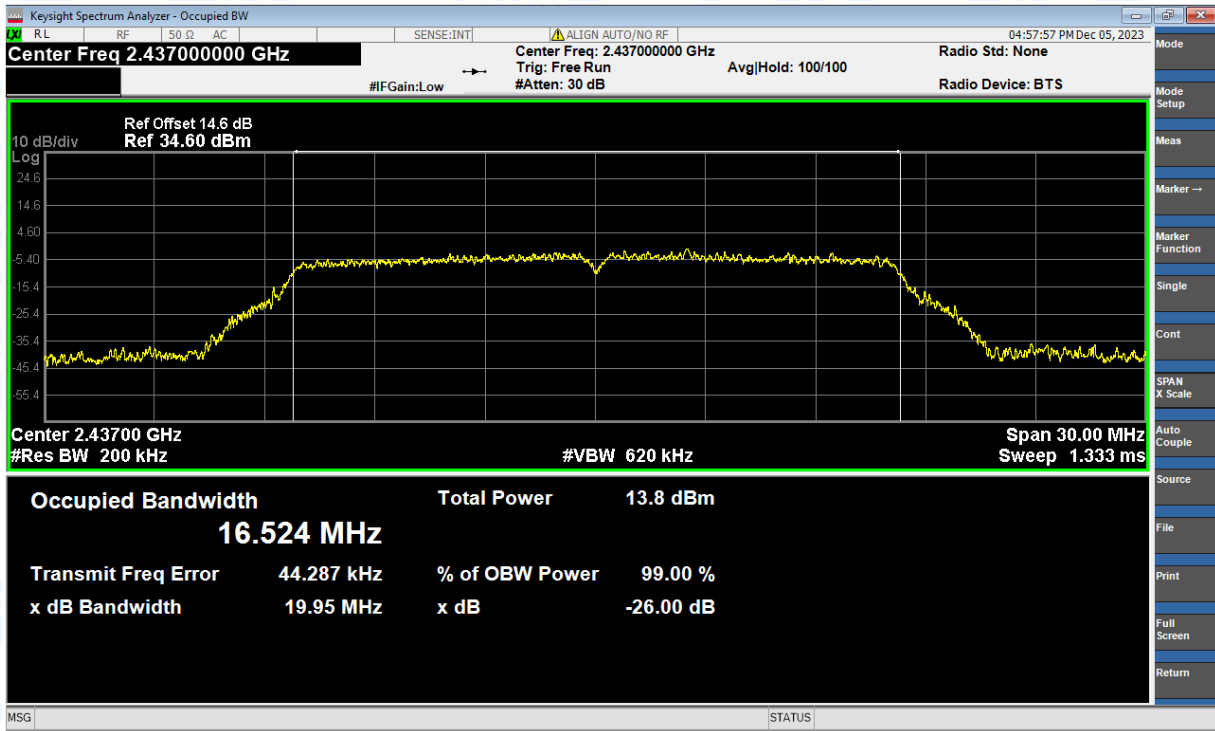
OBW NVNT b 2462MHz Ant1



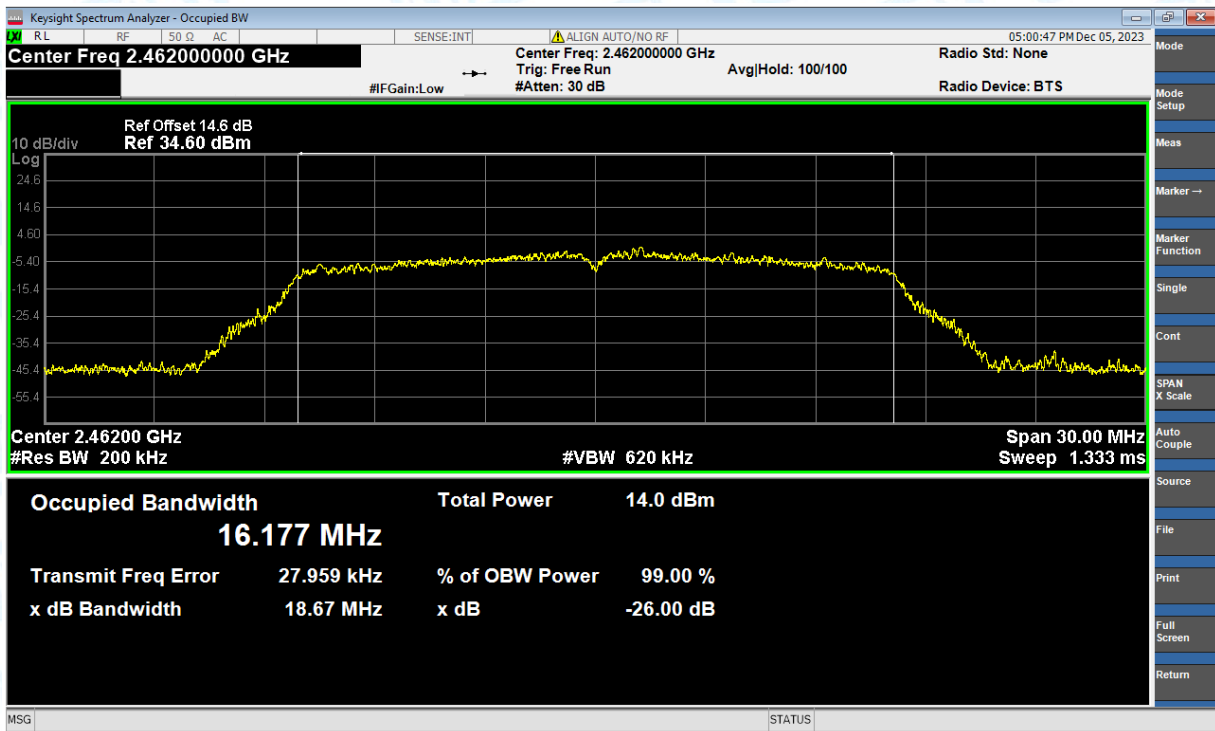
OBW NVNT g 2412MHz Ant1



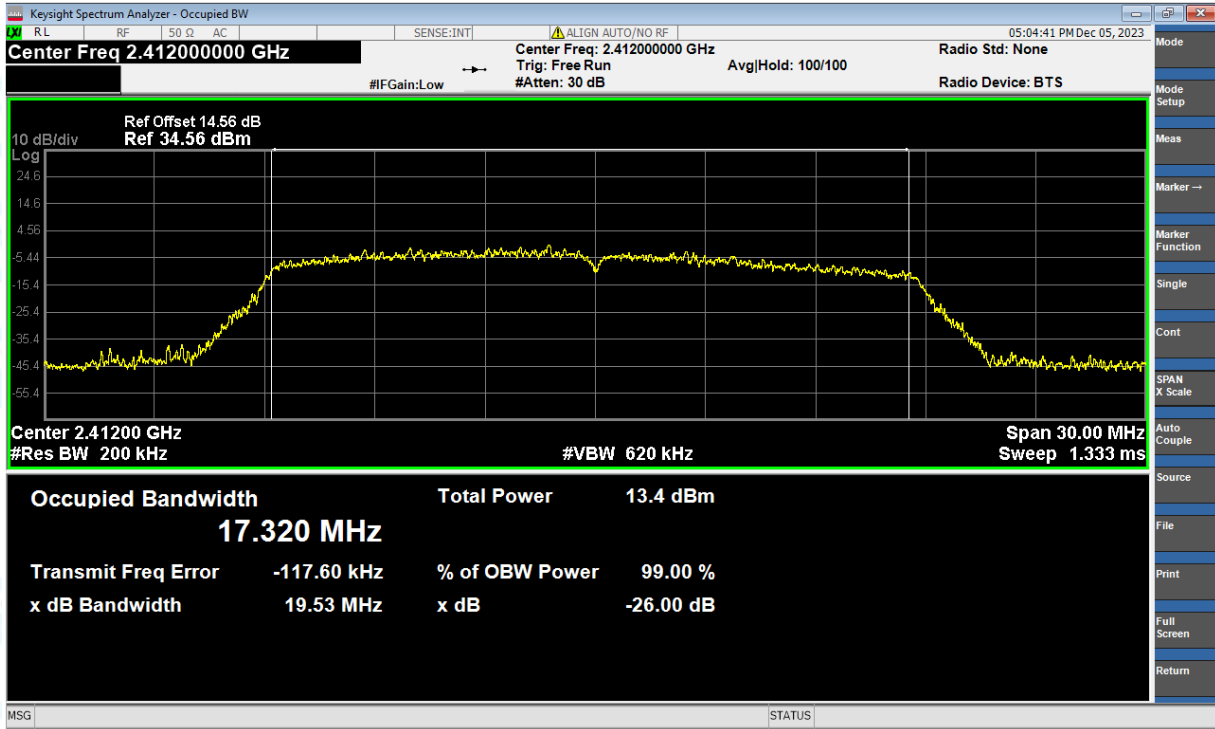
OBW NVNT g 2437MHz Ant1



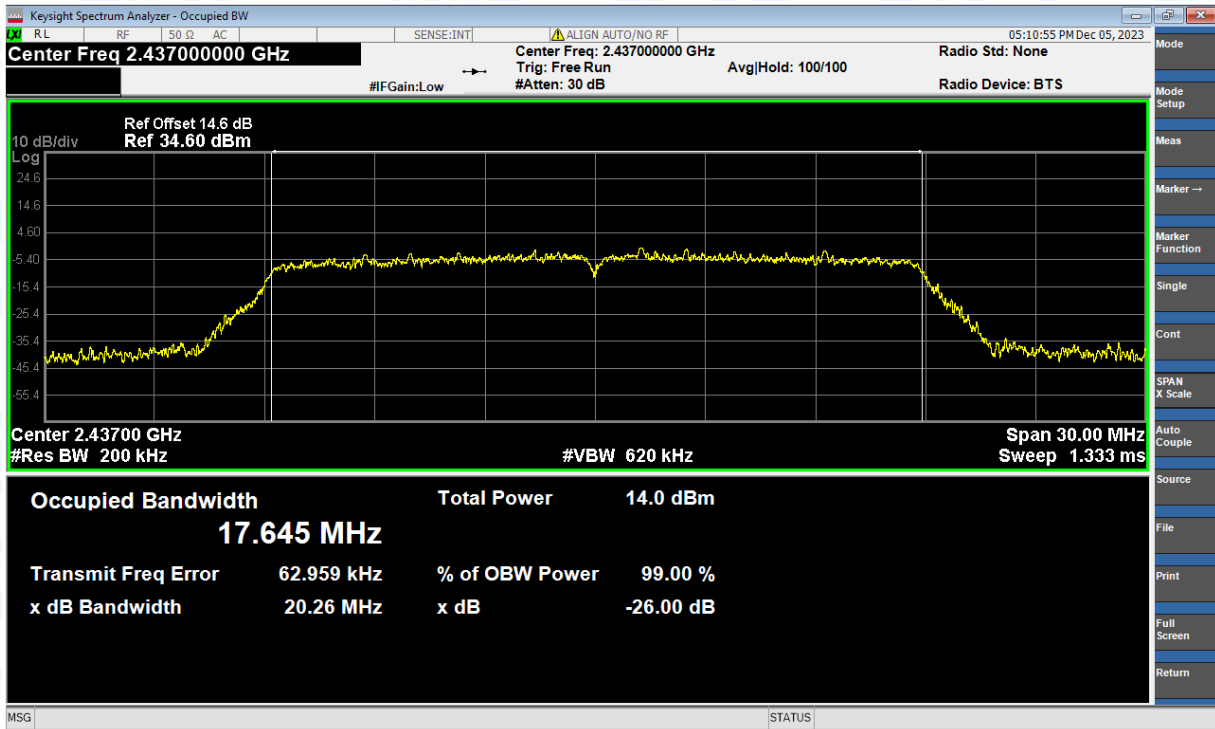
OBW NVNT g 2462MHz Ant1



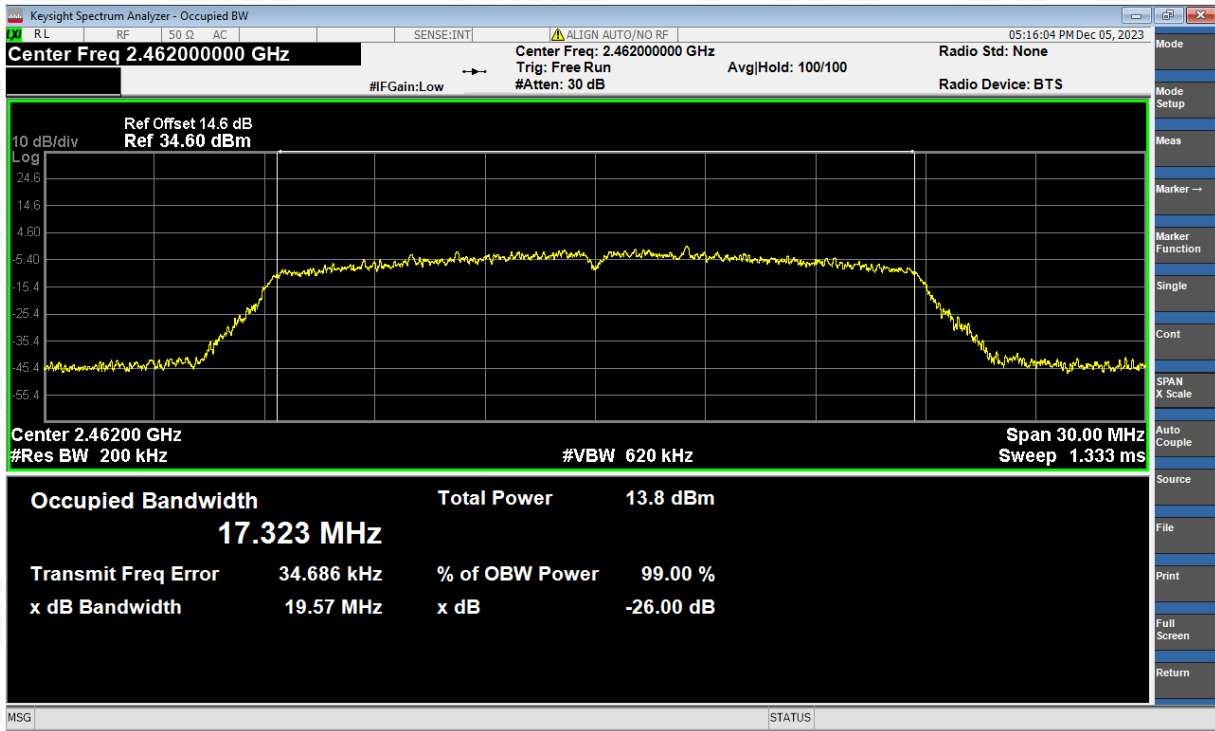
OBW NVNT n(HT20) 2412MHz Ant1



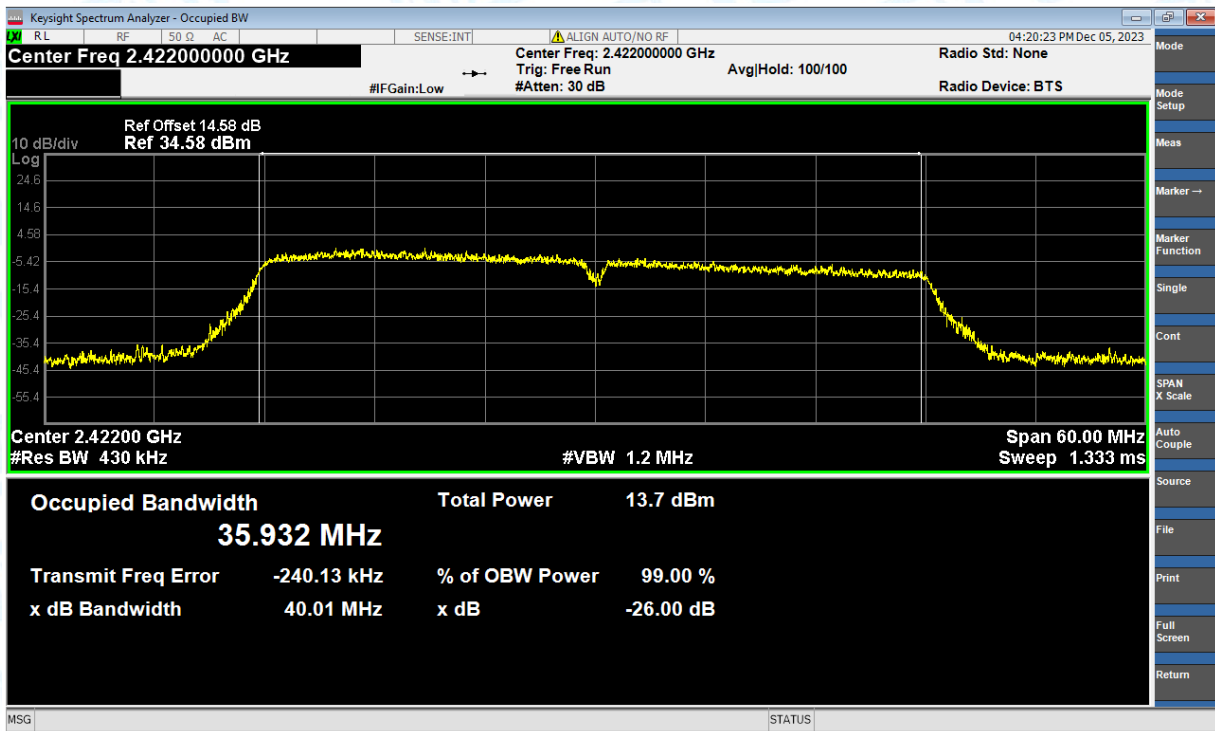
OBW NVNT n(HT20) 2437MHz Ant1



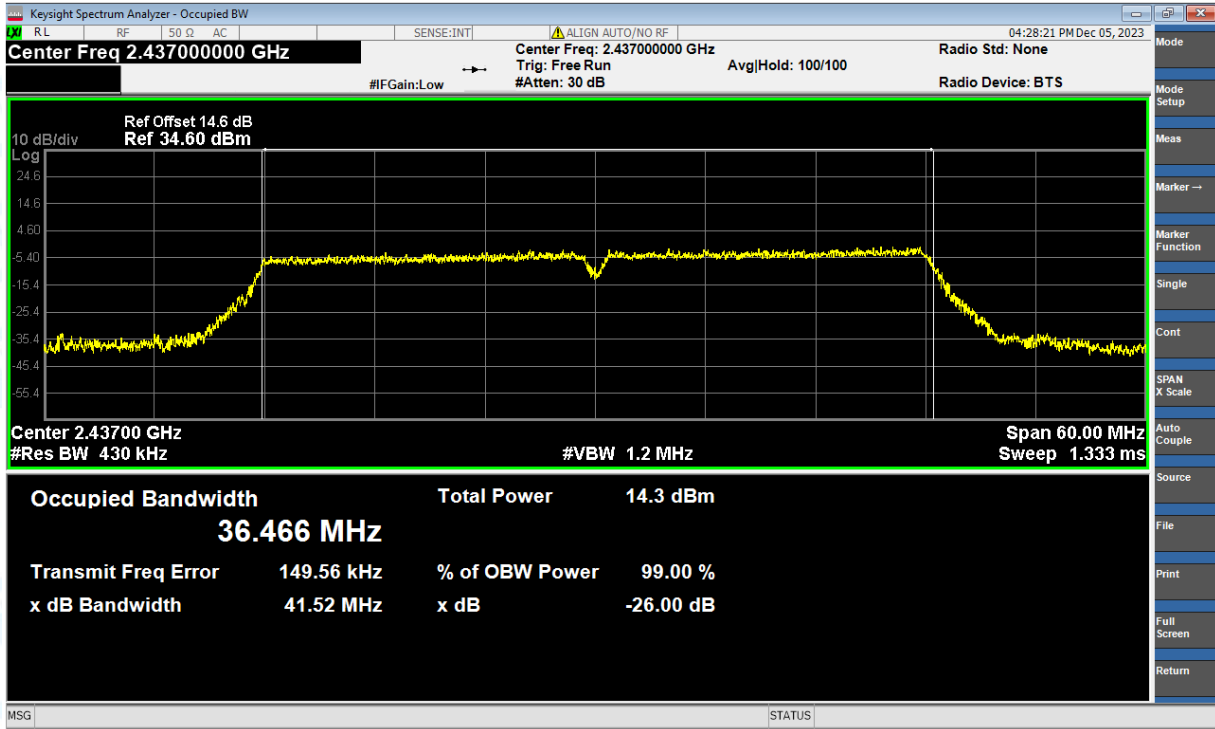
OBW NVNT n(HT20) 2462MHz Ant1



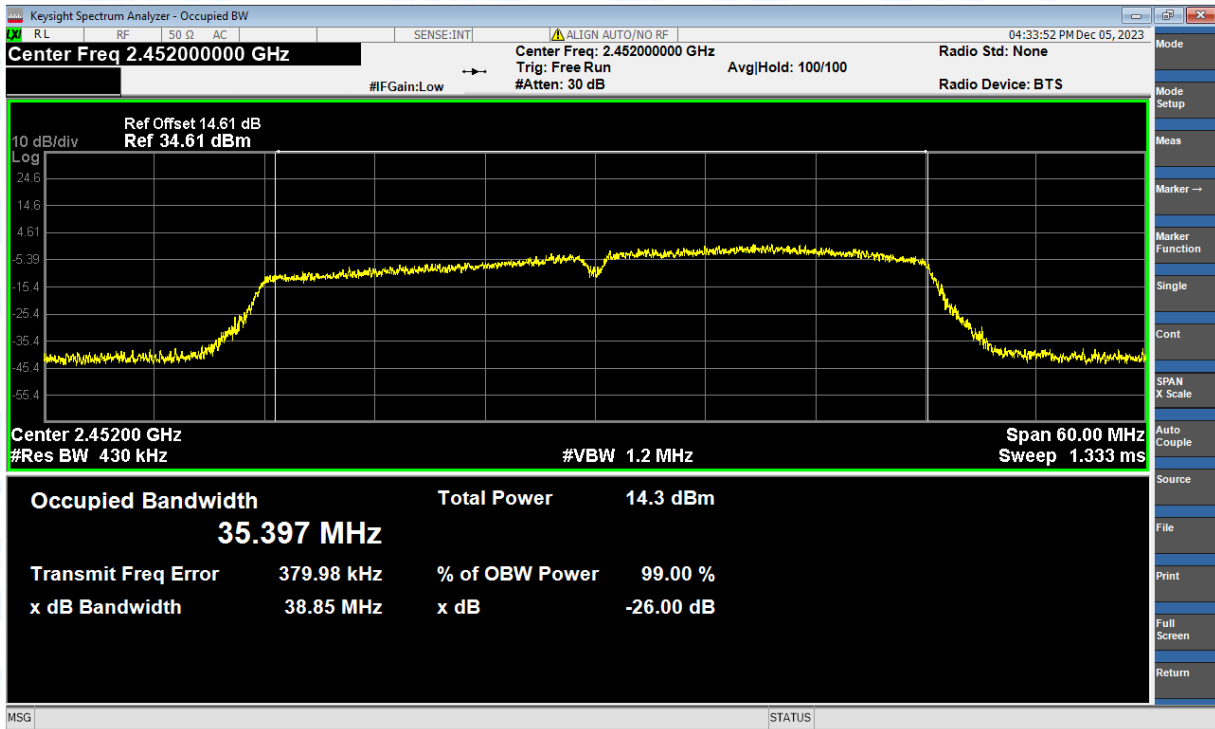
OBW NVNT n(HT40) 2422MHz Ant1



OBW NVNT n(HT40) 2437MHz Ant1



OBW NVNT n(HT40) 2452MHz Ant1



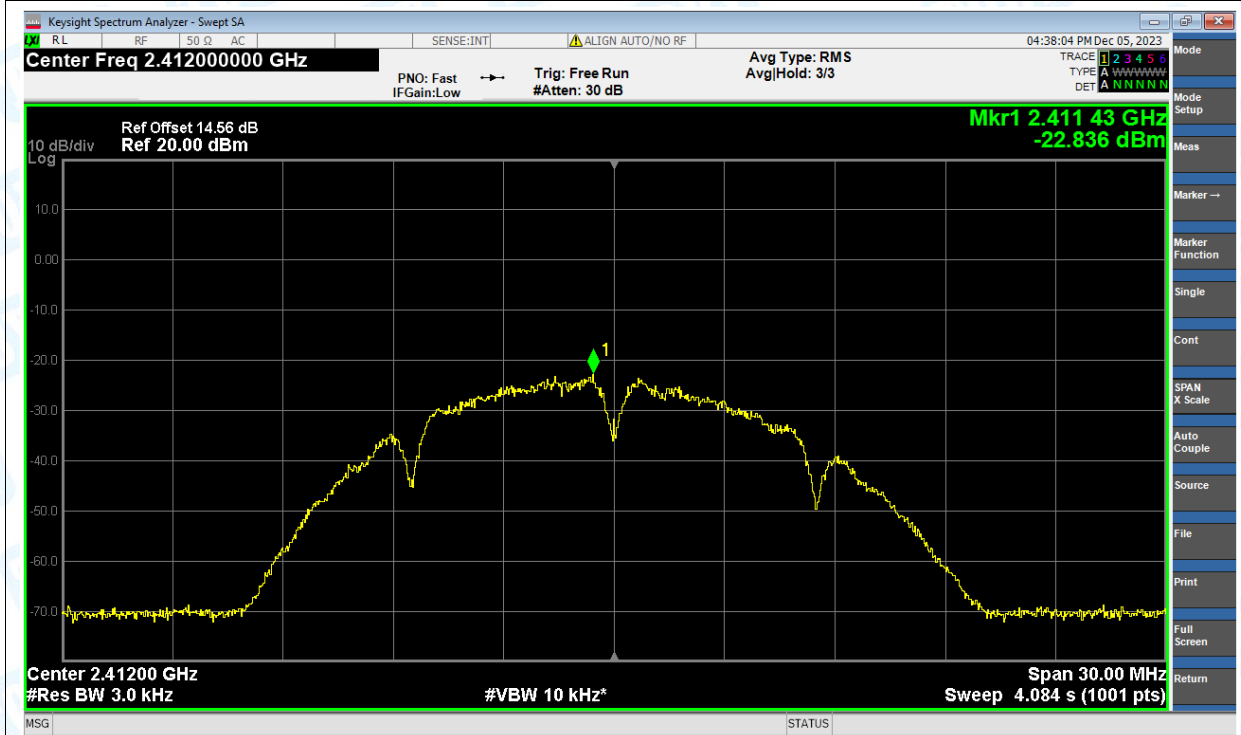
5. Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-22.836	8	Pass
NVNT	b	2437	Ant1	-22.589	8	Pass
NVNT	b	2462	Ant1	-22.155	8	Pass
NVNT	g	2412	Ant1	-24.928	8	Pass
NVNT	g	2437	Ant1	-25.365	8	Pass
NVNT	g	2462	Ant1	-24.148	8	Pass
NVNT	n(HT20)	2412	Ant1	-24.681	8	Pass
NVNT	n(HT20)	2437	Ant1	-25.696	8	Pass
NVNT	n(HT20)	2462	Ant1	-24.241	8	Pass
NVNT	n(HT40)	2422	Ant1	-27.617	8	Pass
NVNT	n(HT40)	2437	Ant1	-28.362	8	Pass
NVNT	n(HT40)	2452	Ant1	-27.053	8	Pass

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

Test Graphs

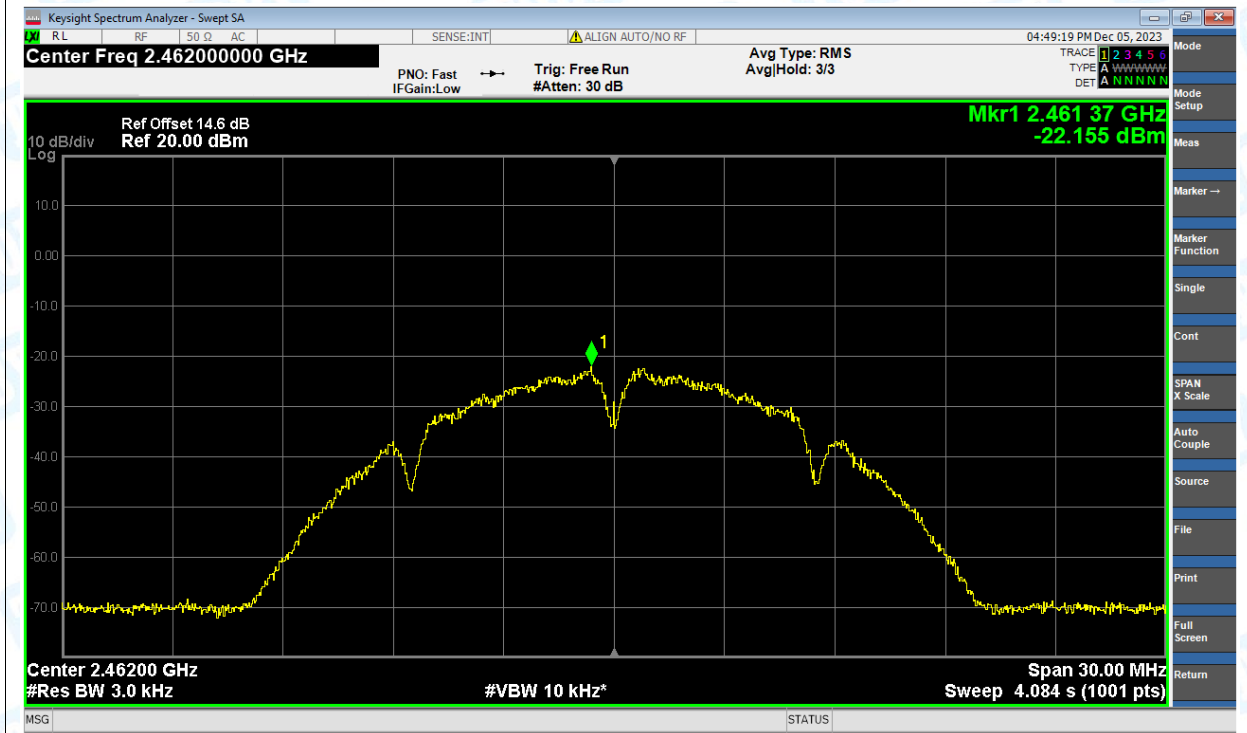
PSD NVNT b 2412MHz Ant1



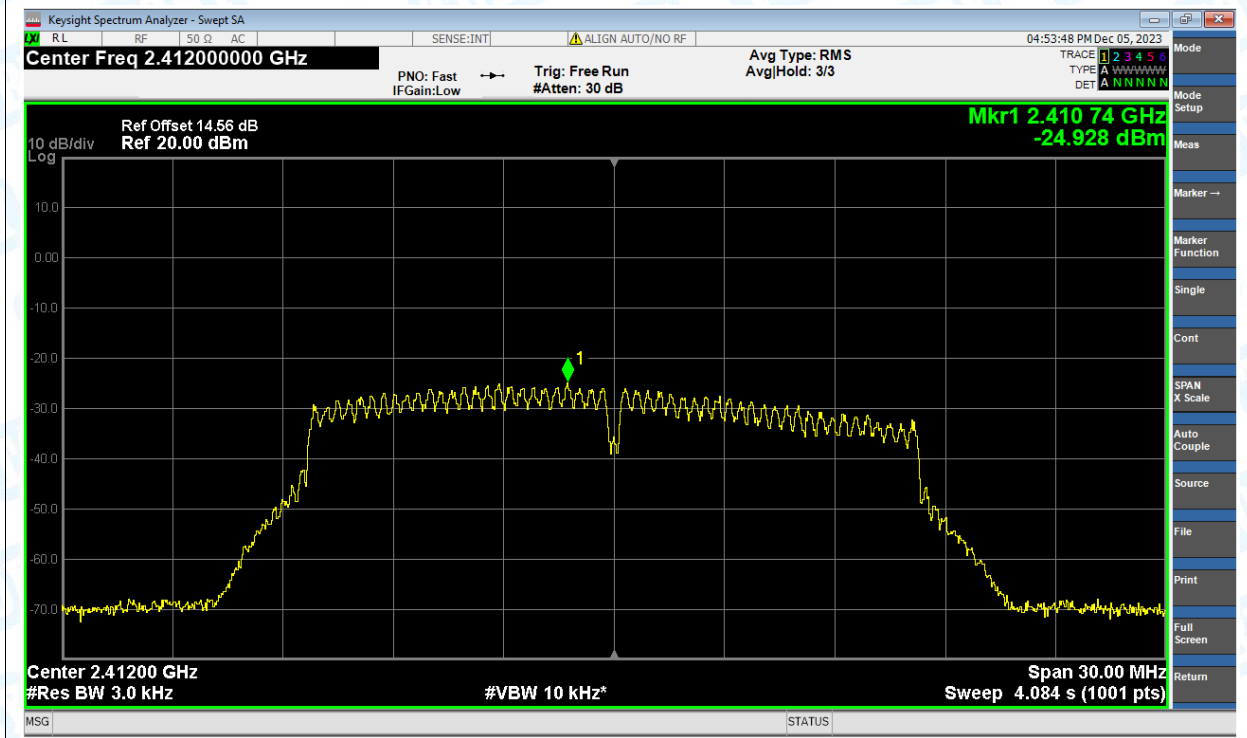
PSD NVNT b 2437MHz Ant1



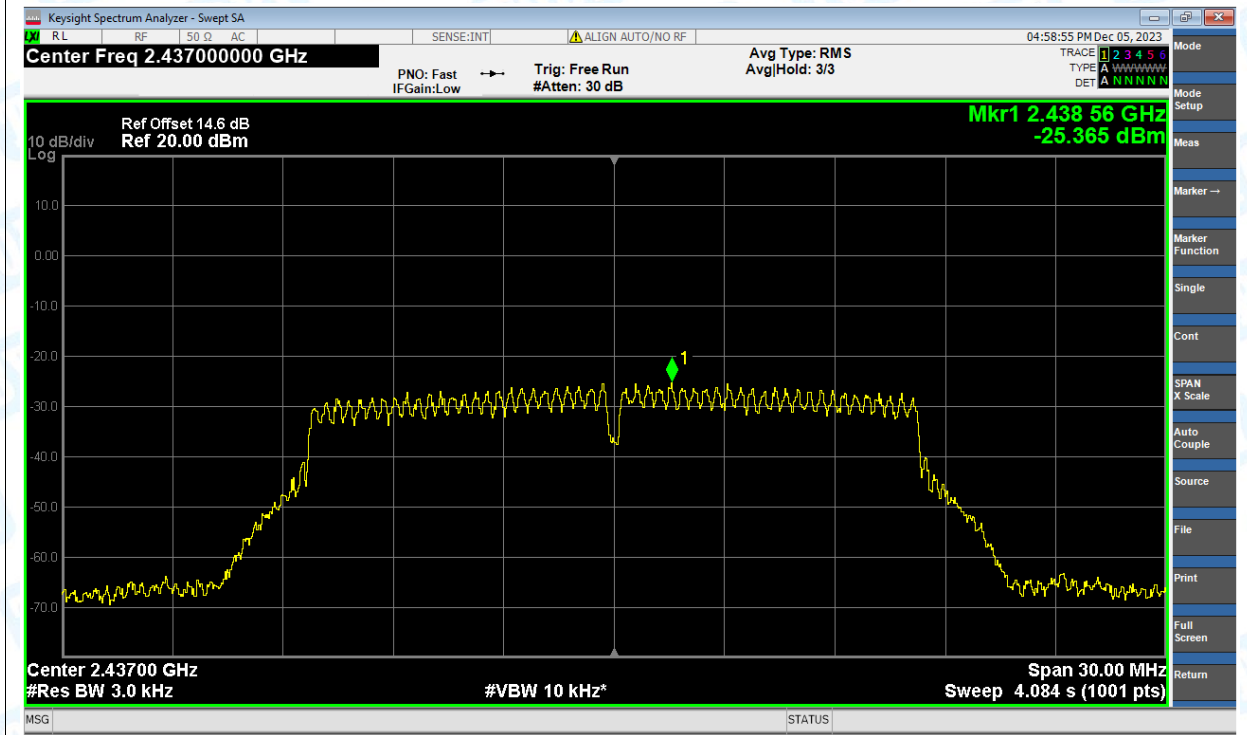
PSD NVNT b 2462MHz Ant1



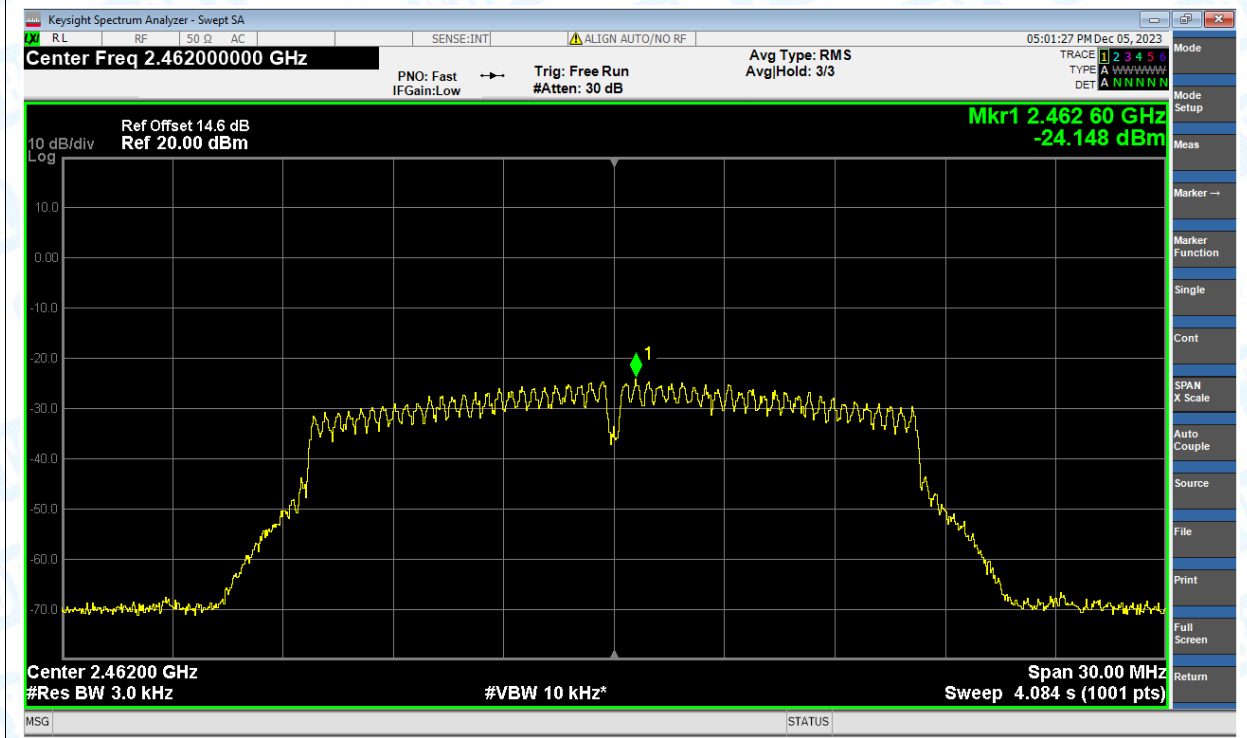
PSD NVNT g 2412MHz Ant1



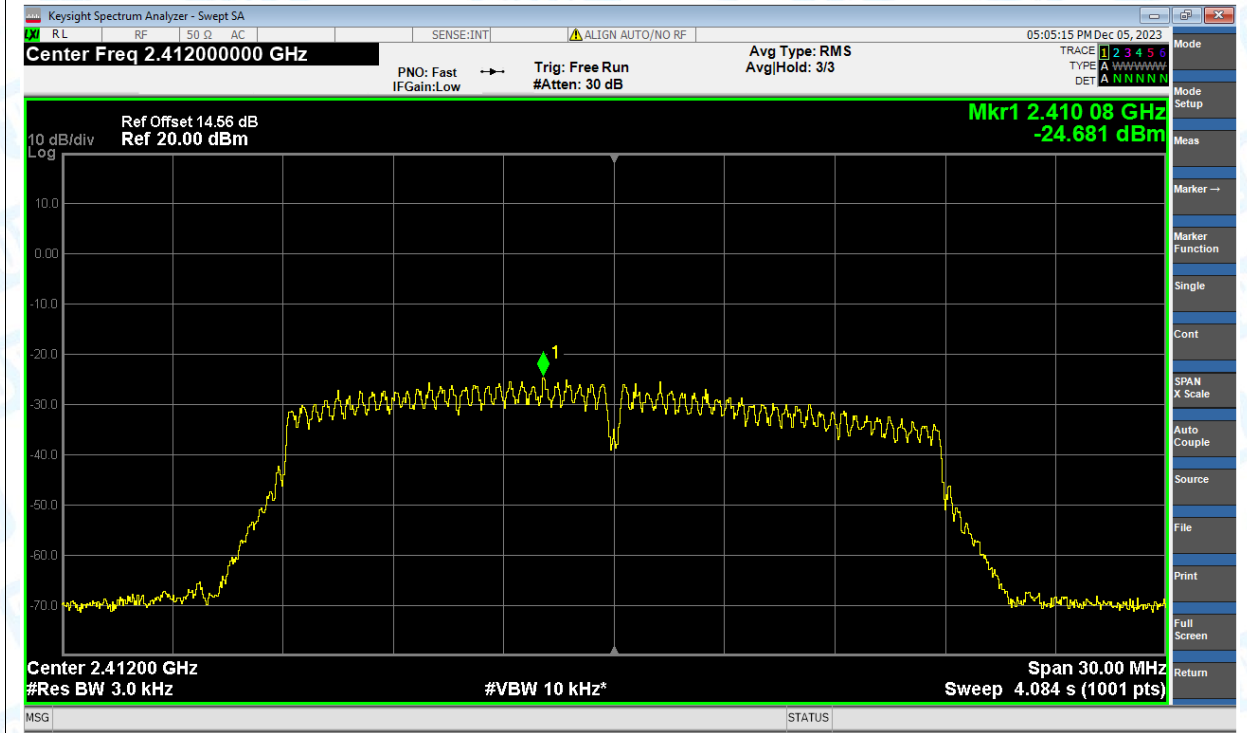
PSD NVNT g 2437MHz Ant1



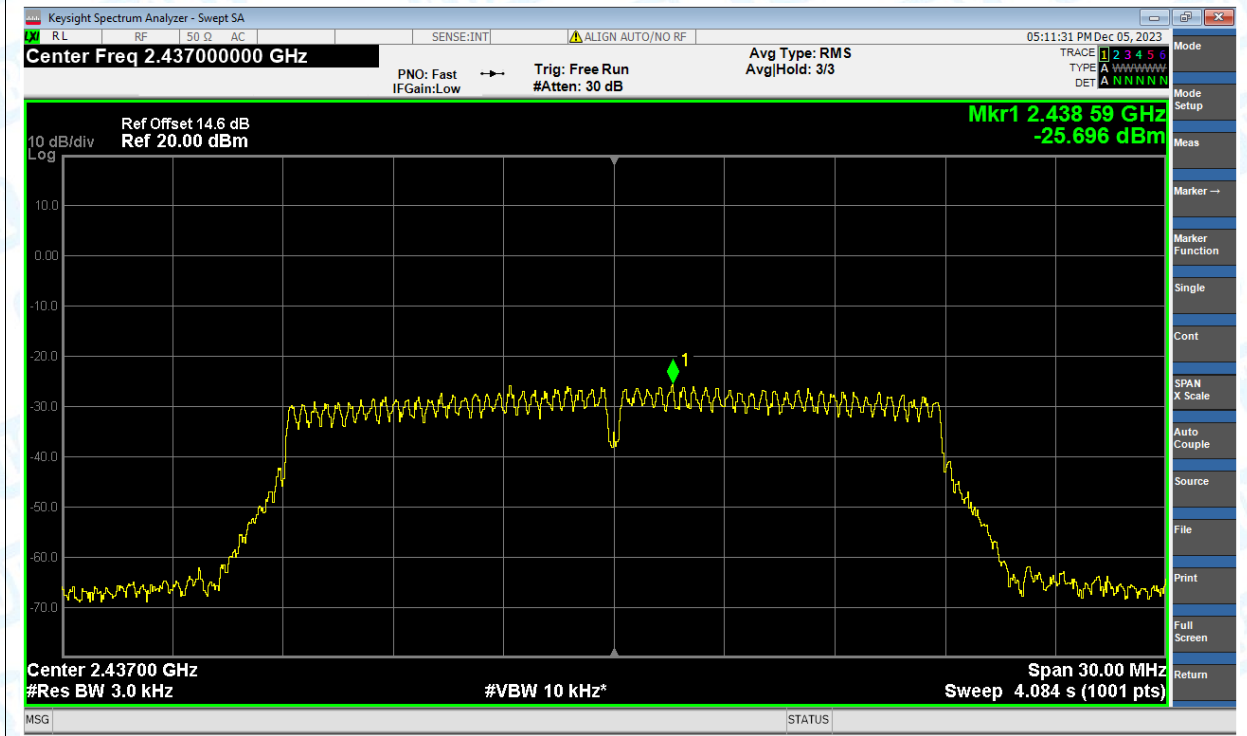
PSD NVNT g 2462MHz Ant1



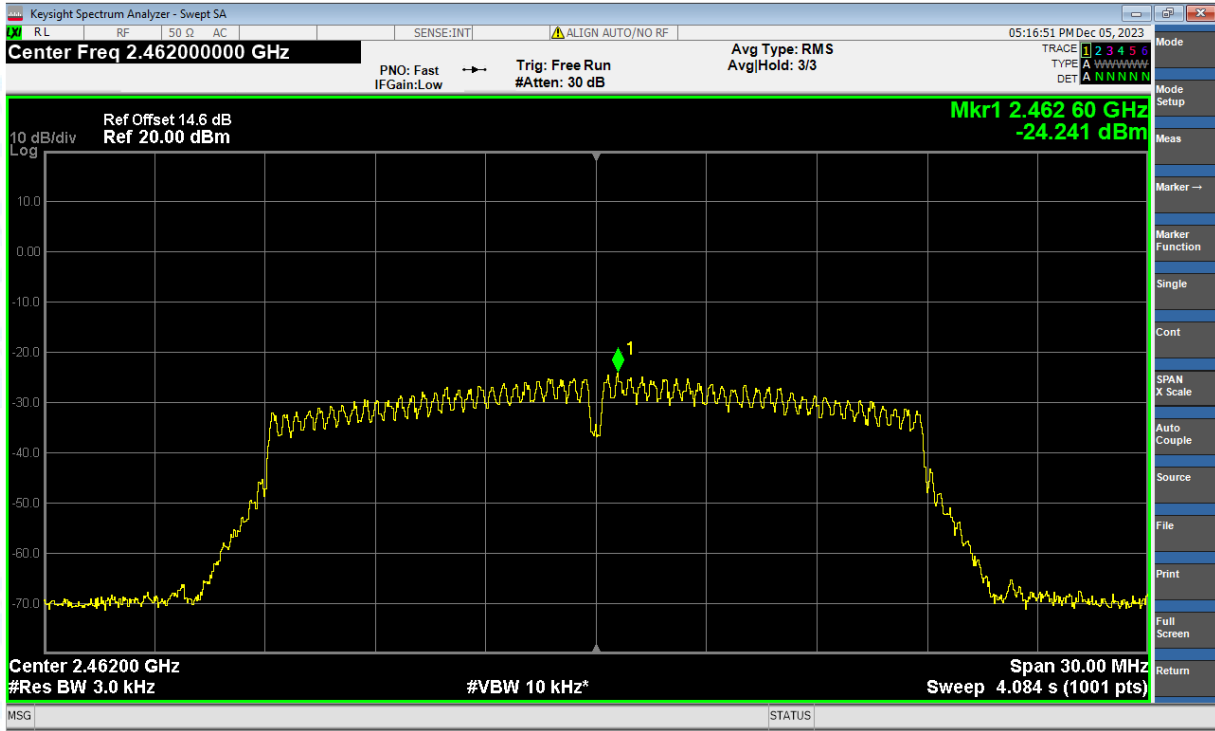
PSD NVNT n(HT20) 2412MHz Ant1



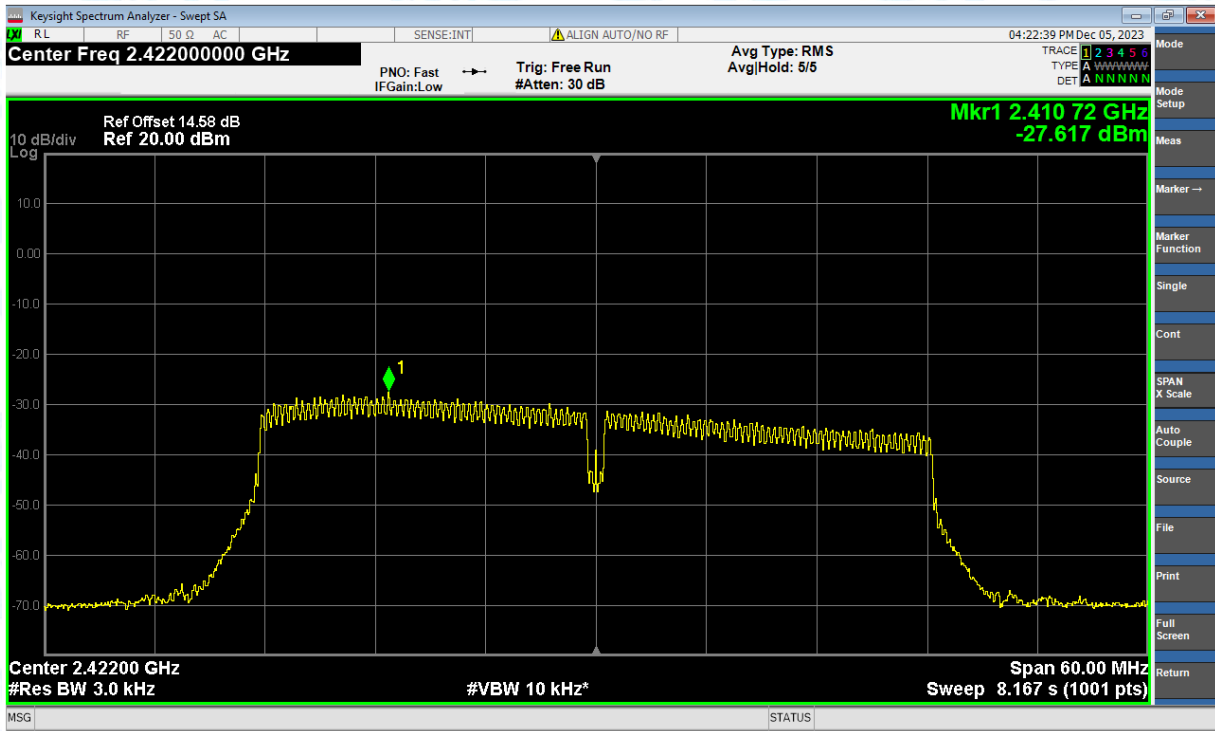
PSD NVNT n(HT20) 2437MHz Ant1



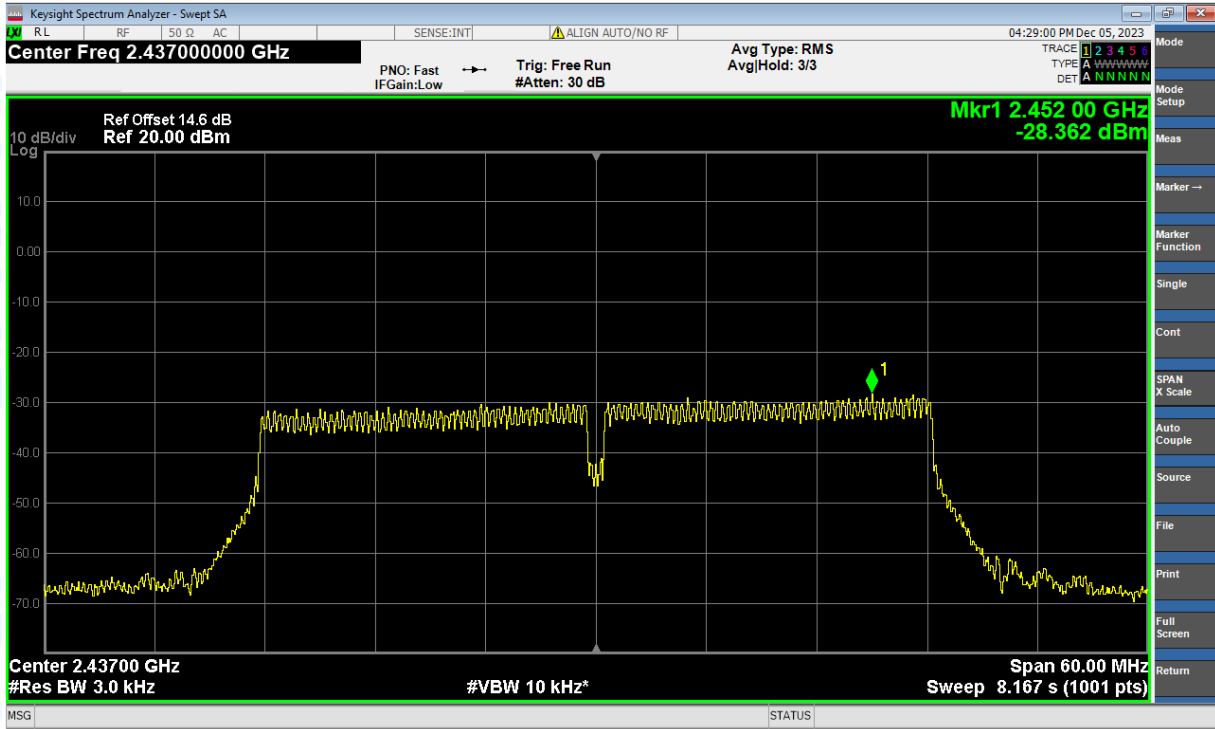
PSD NVNT n(HT20) 2462MHz Ant1



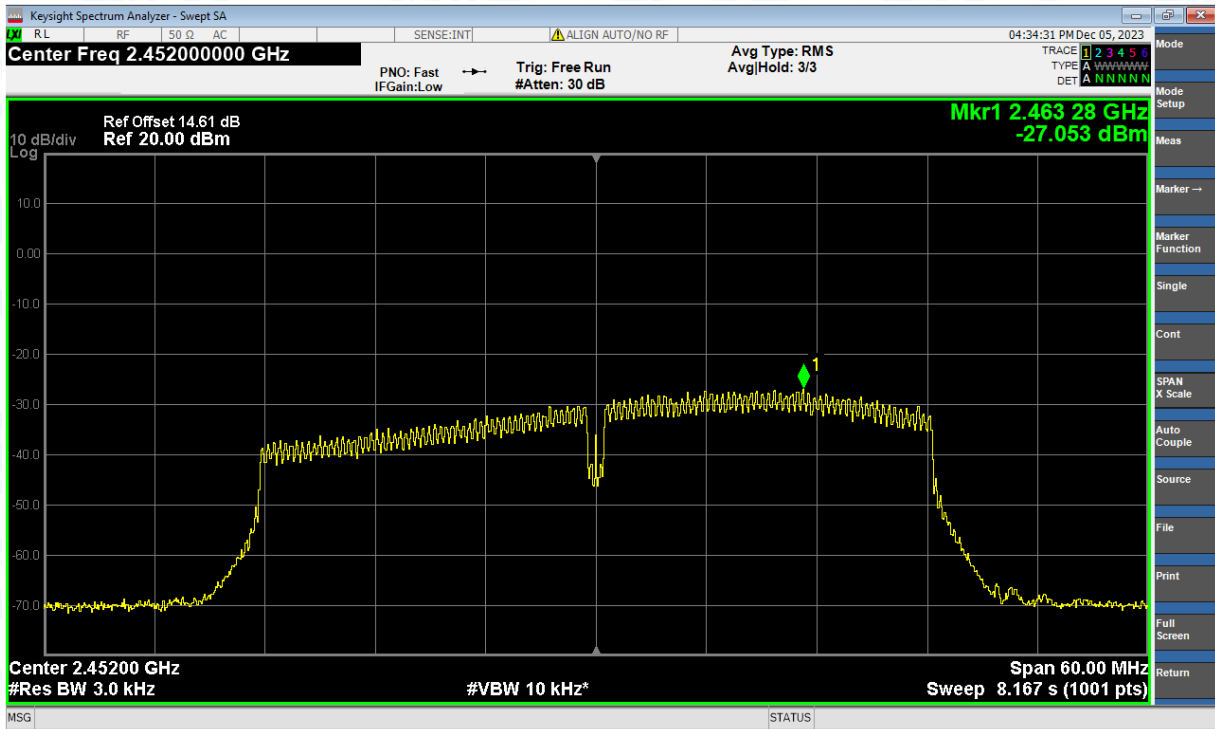
PSD NVNT n(HT40) 2422MHz Ant1



PSD NVNT n(HT40) 2437MHz Ant1



PSD NVNT n(HT40) 2452MHz Ant1



6. Band Edge

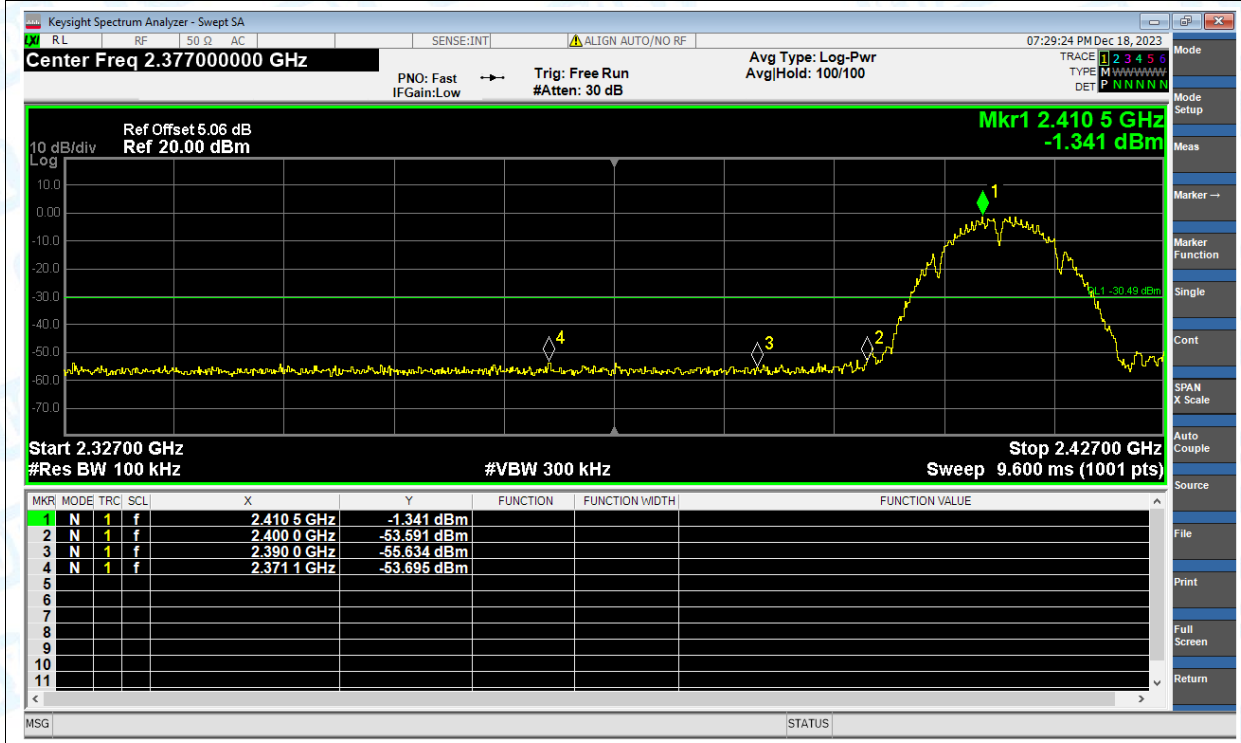
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-53.20	-30	Pass
NVNT	b	2462	Ant1	-53.24	-30	Pass
NVNT	g	2412	Ant1	-45.54	-30	Pass
NVNT	g	2462	Ant1	-42.35	-30	Pass
NVNT	n(HT20)	2412	Ant1	-43.66	-30	Pass
NVNT	n(HT20)	2462	Ant1	-42.31	-30	Pass
NVNT	n(HT40)	2422	Ant1	-32.45	-30	Pass
NVNT	n(HT40)	2452	Ant1	-30.67	-30	Pass

Test Graphs

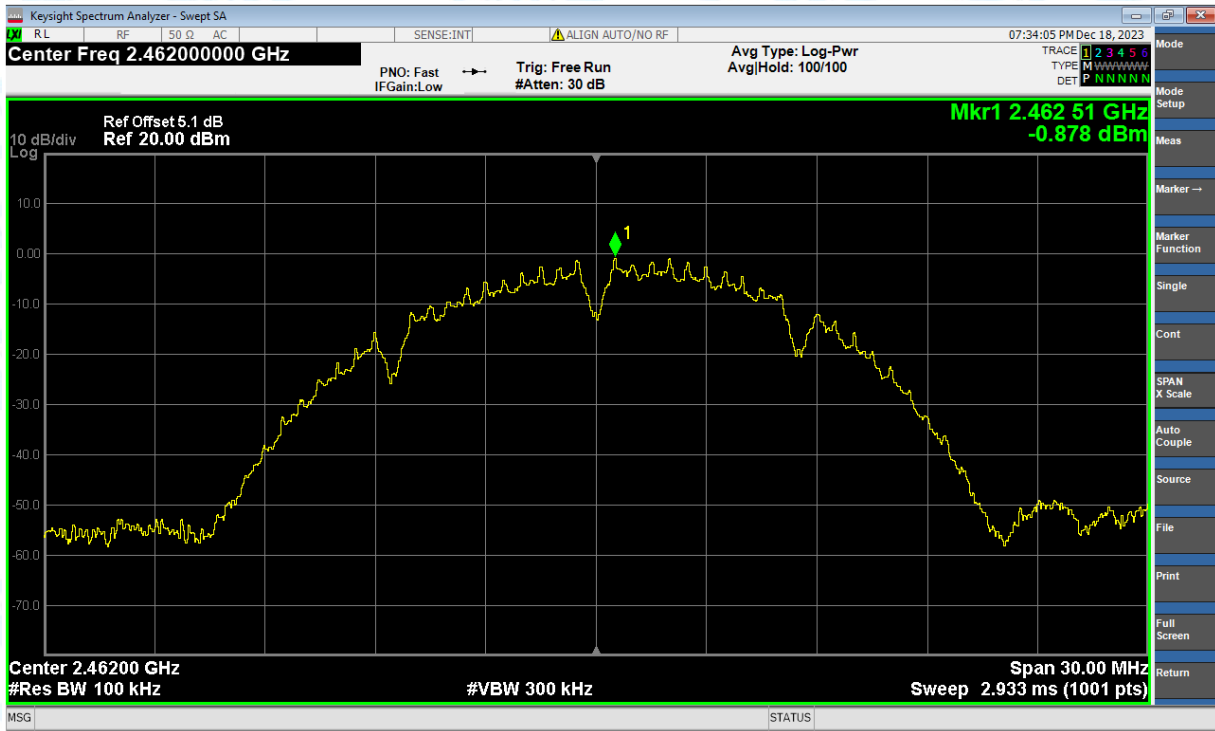
Band Edge NVNT b 2412MHz Ant1 Ref



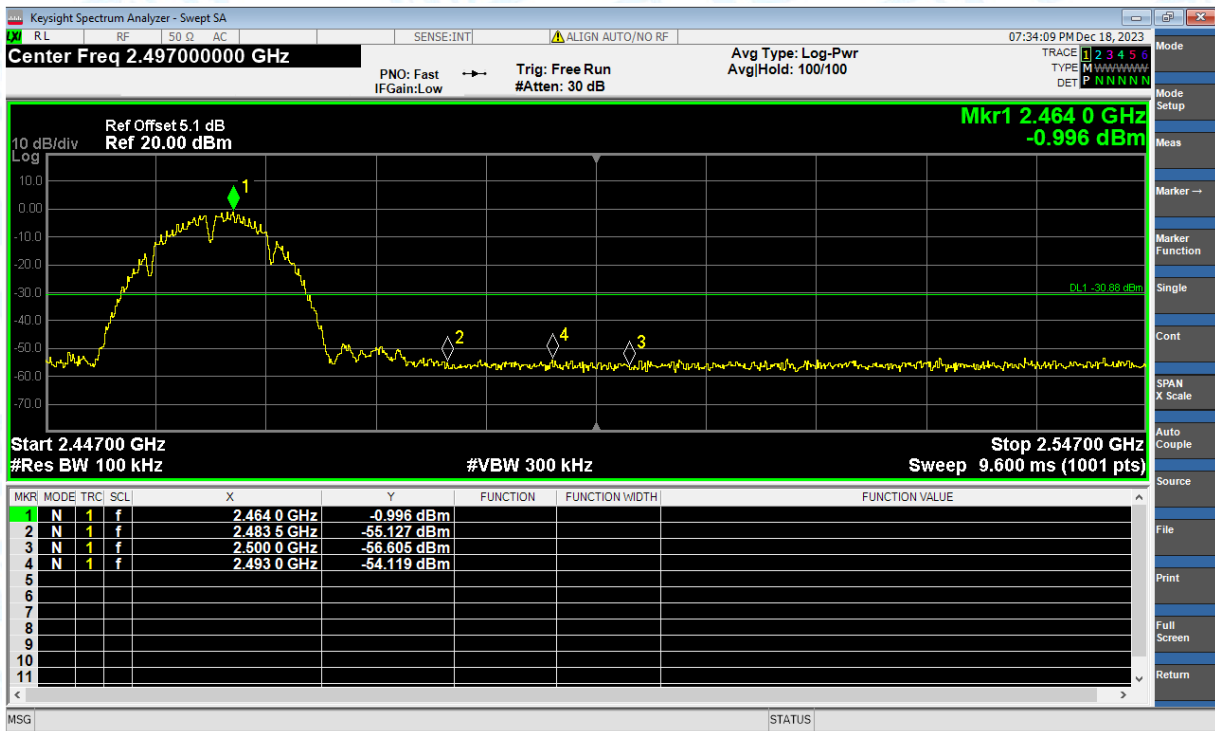
Band Edge NVNT b 2412MHz Ant1 Emission



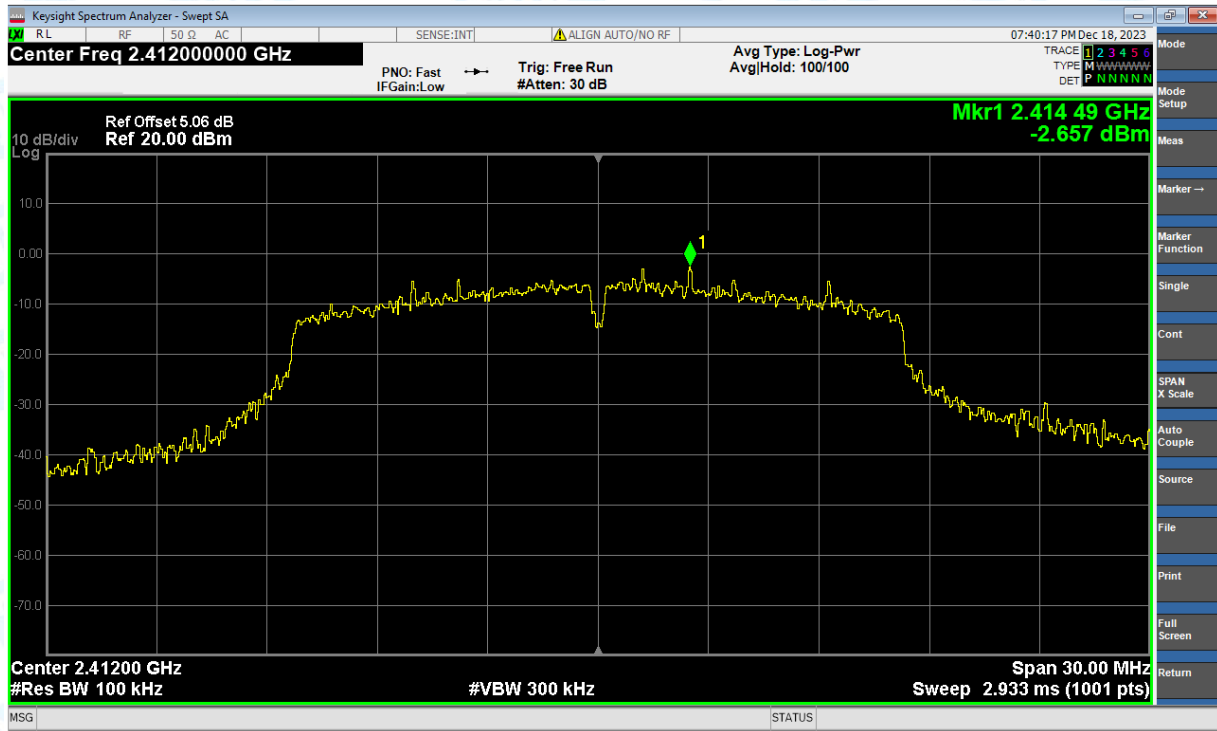
Band Edge NVNT b 2462MHz Ant1 Ref



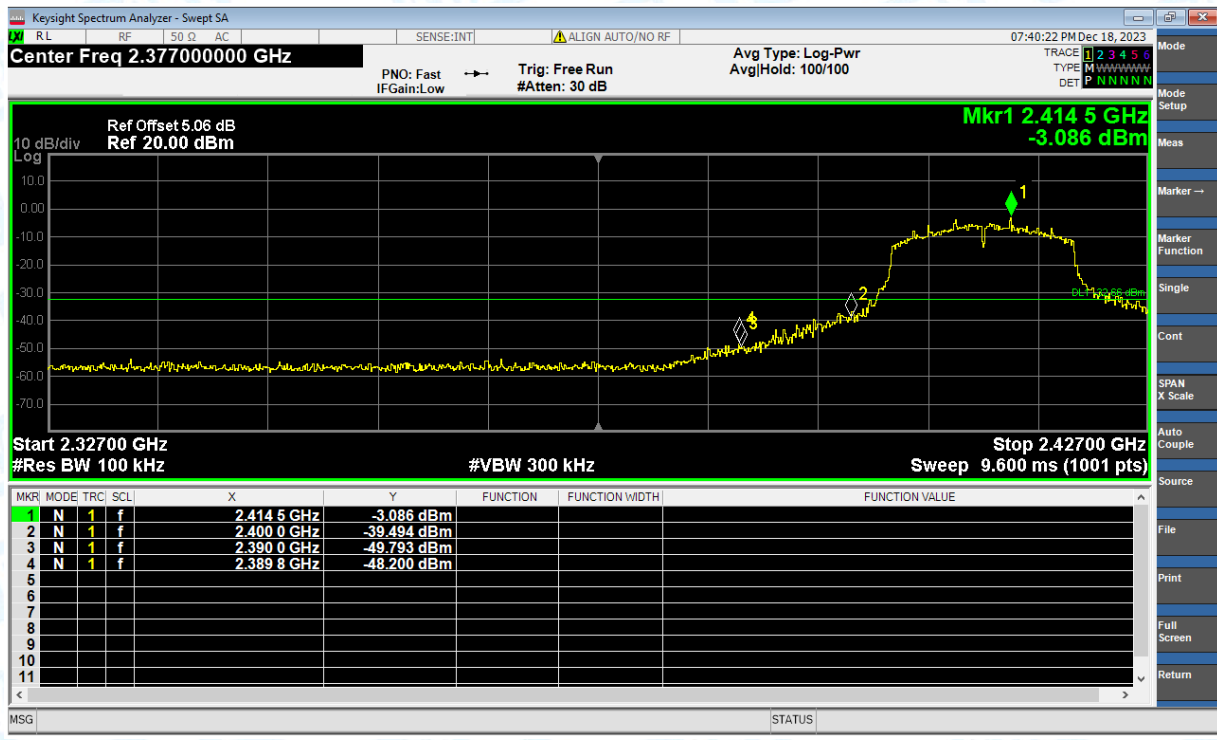
Band Edge NVNT b 2462MHz Ant1 Emission

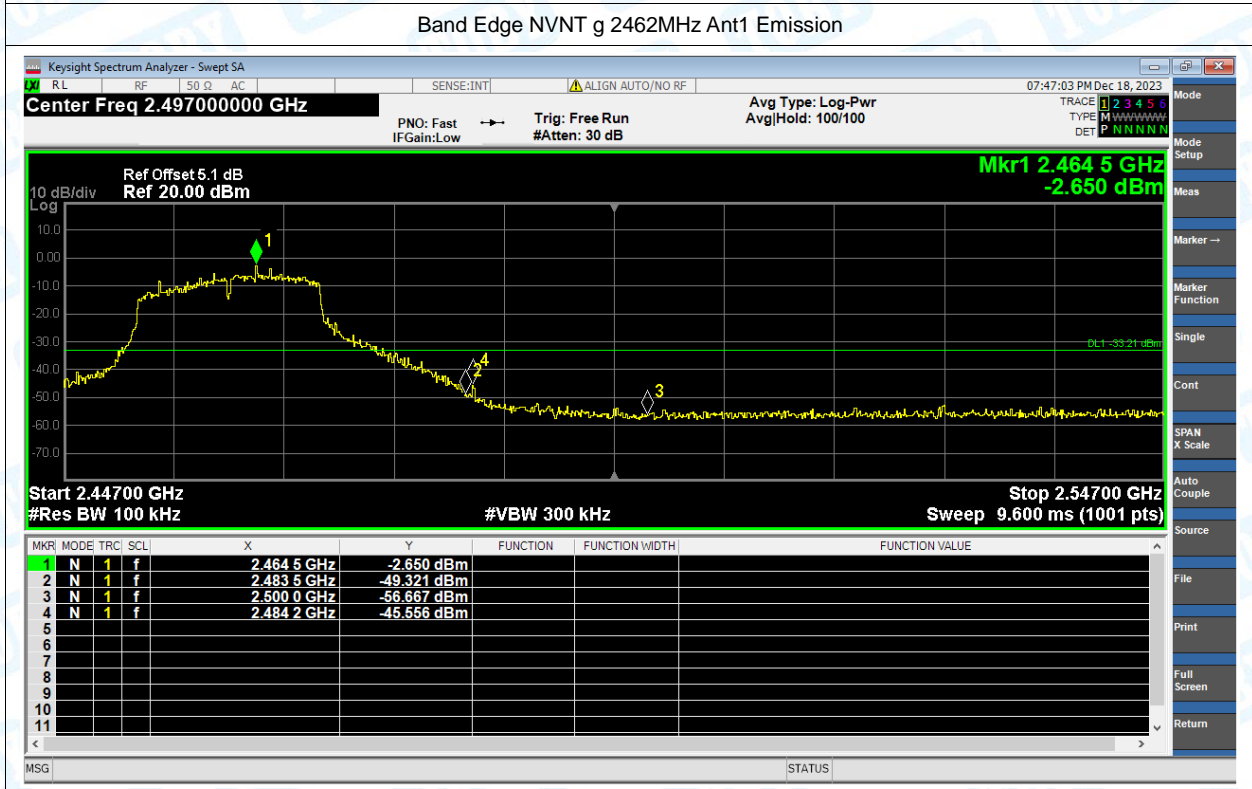
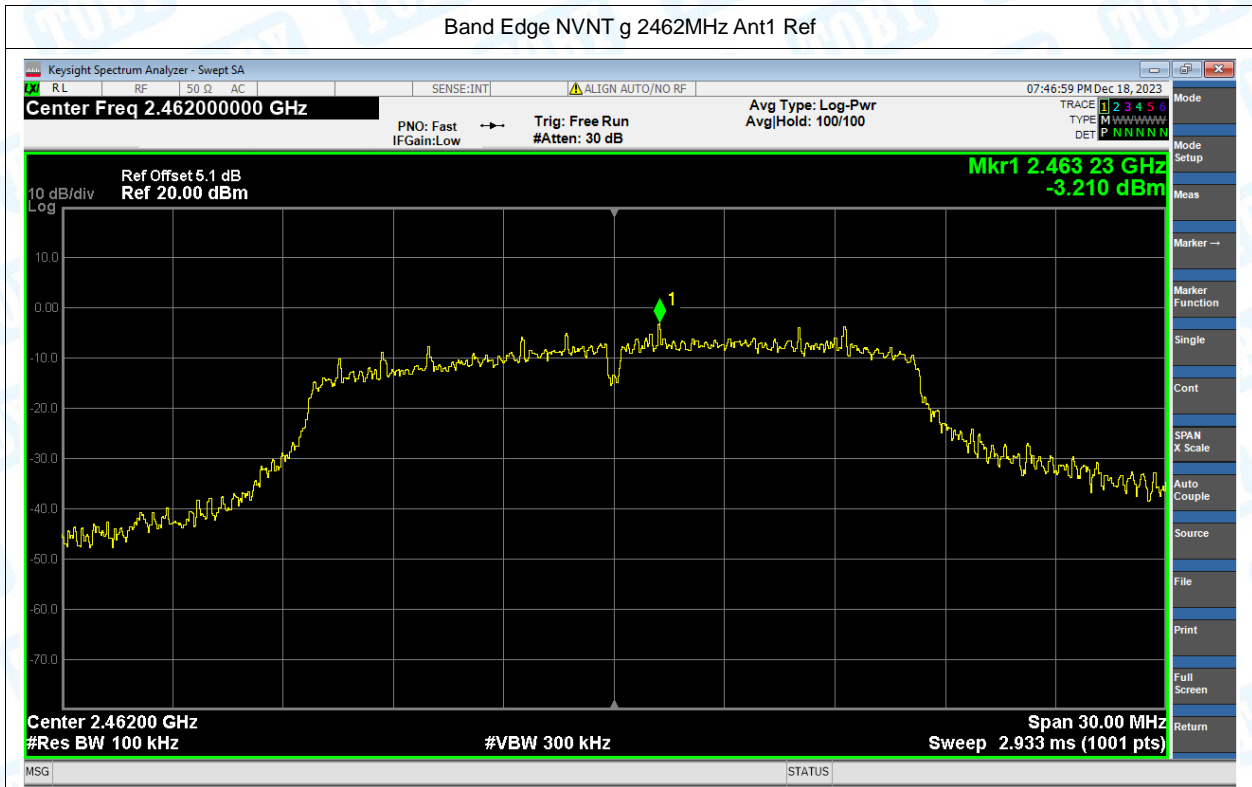


Band Edge NVNT g 2412MHz Ant1 Ref

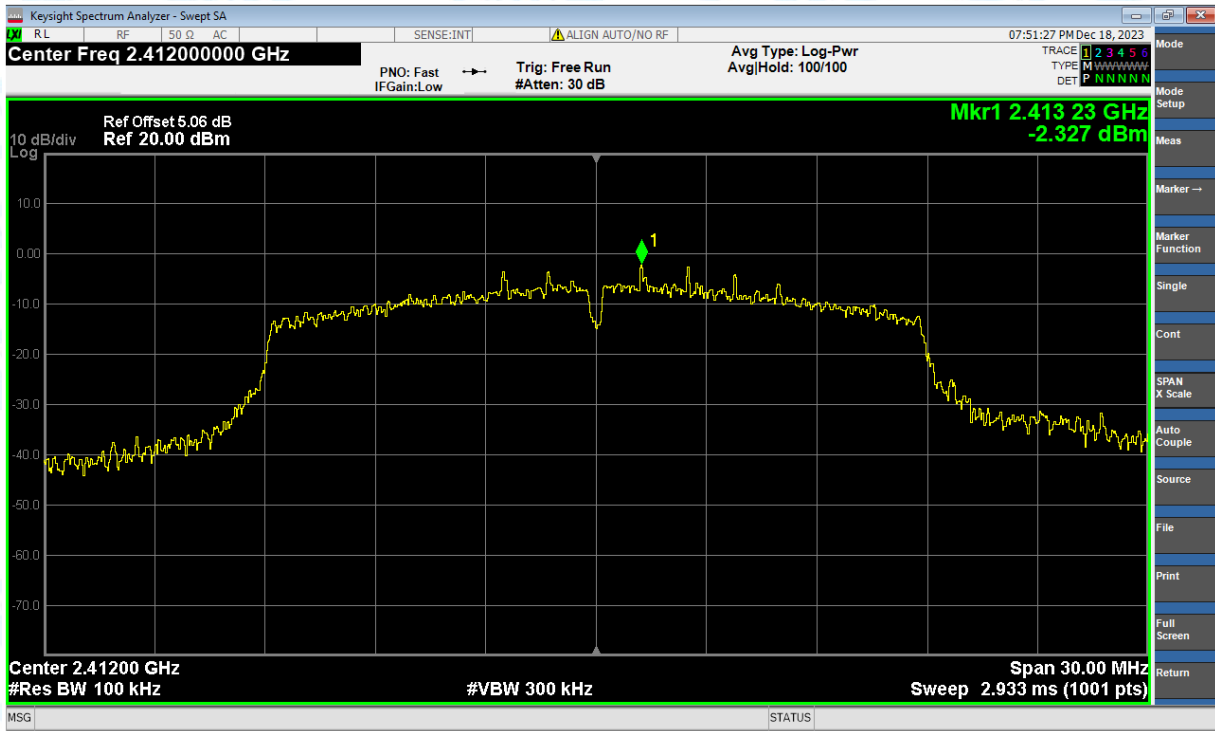


Band Edge NVNT g 2412MHz Ant1 Emission

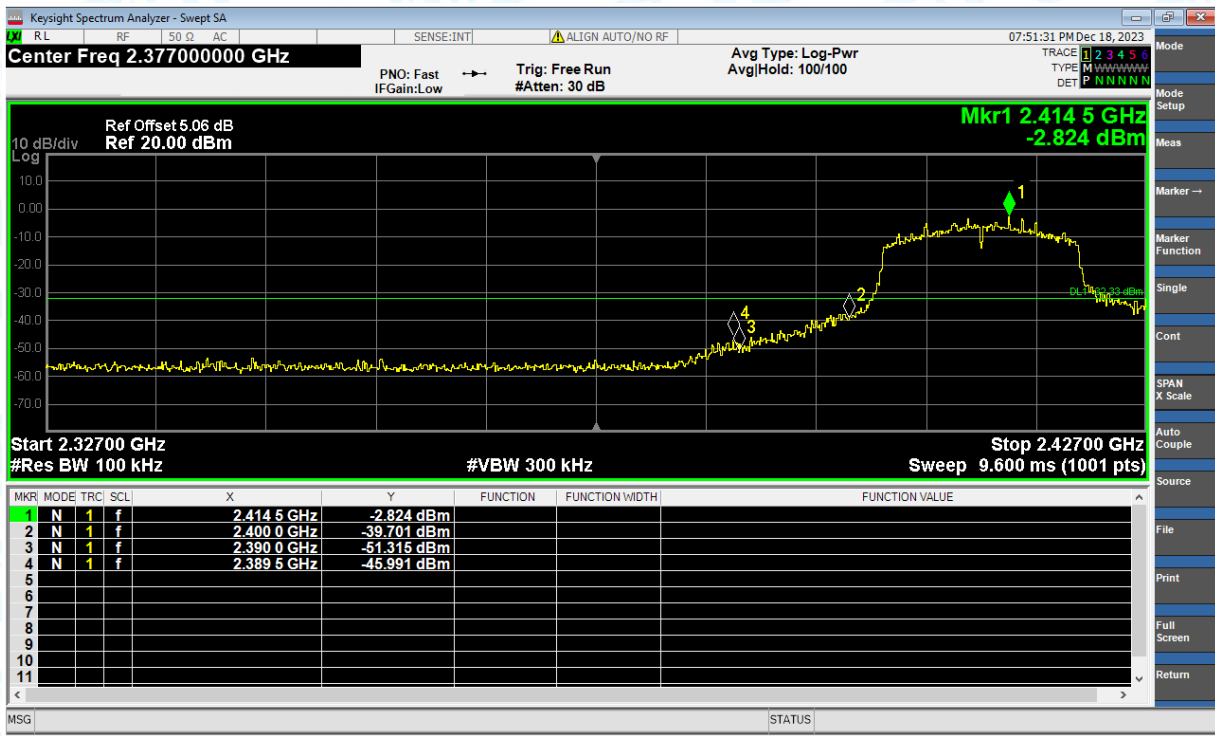


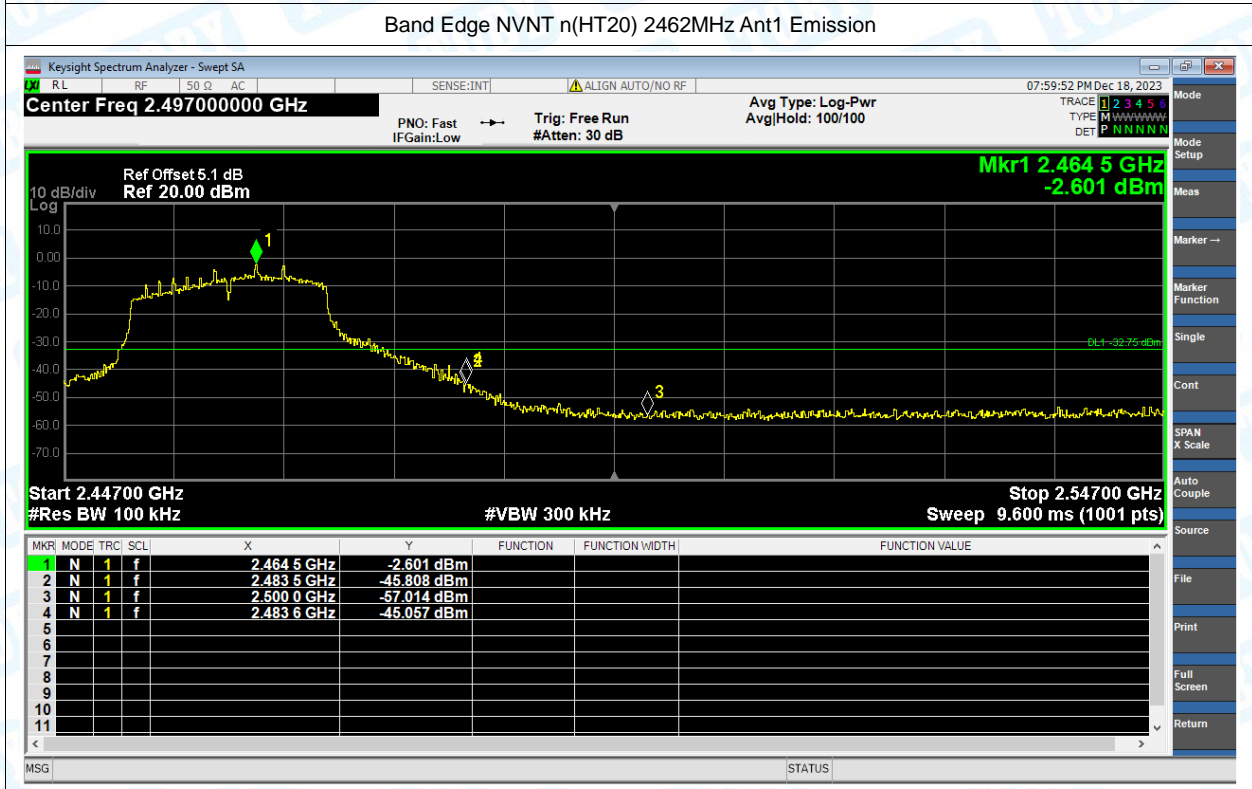
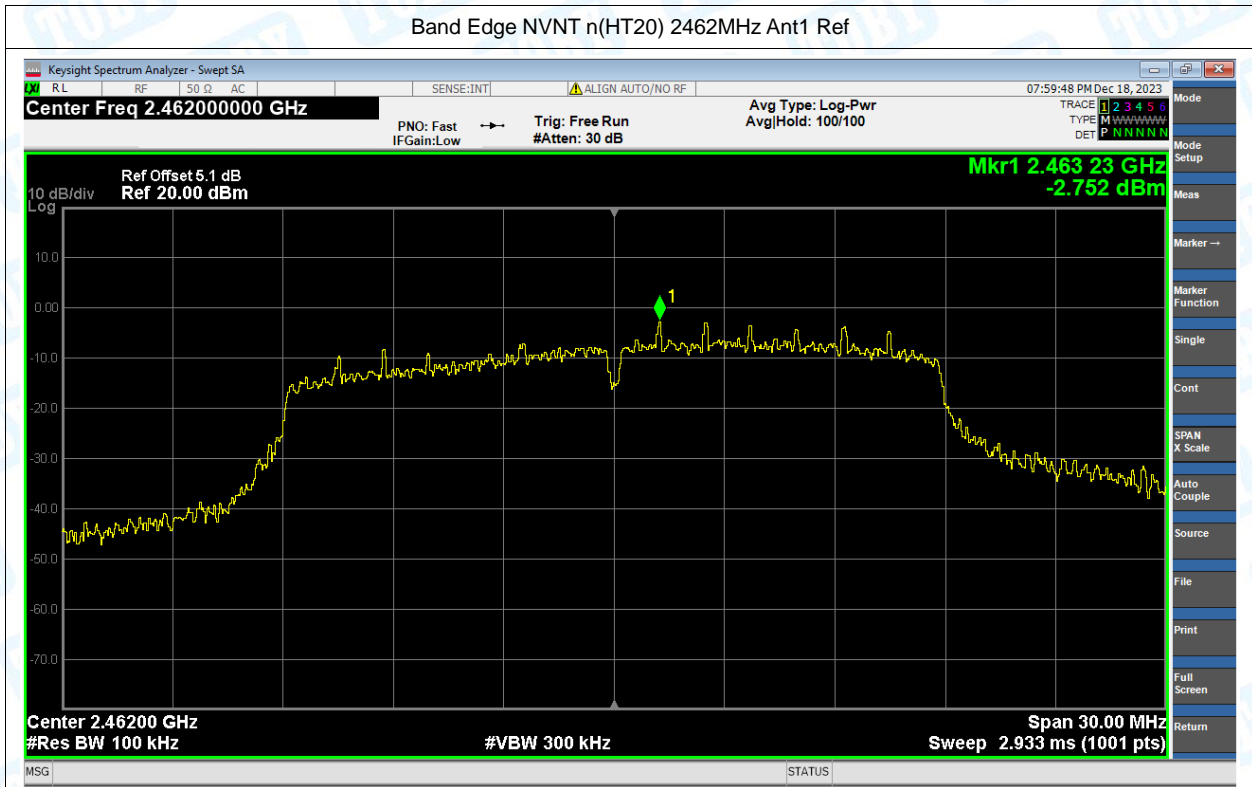


Band Edge NVNT n(HT20) 2412MHz Ant1 Ref

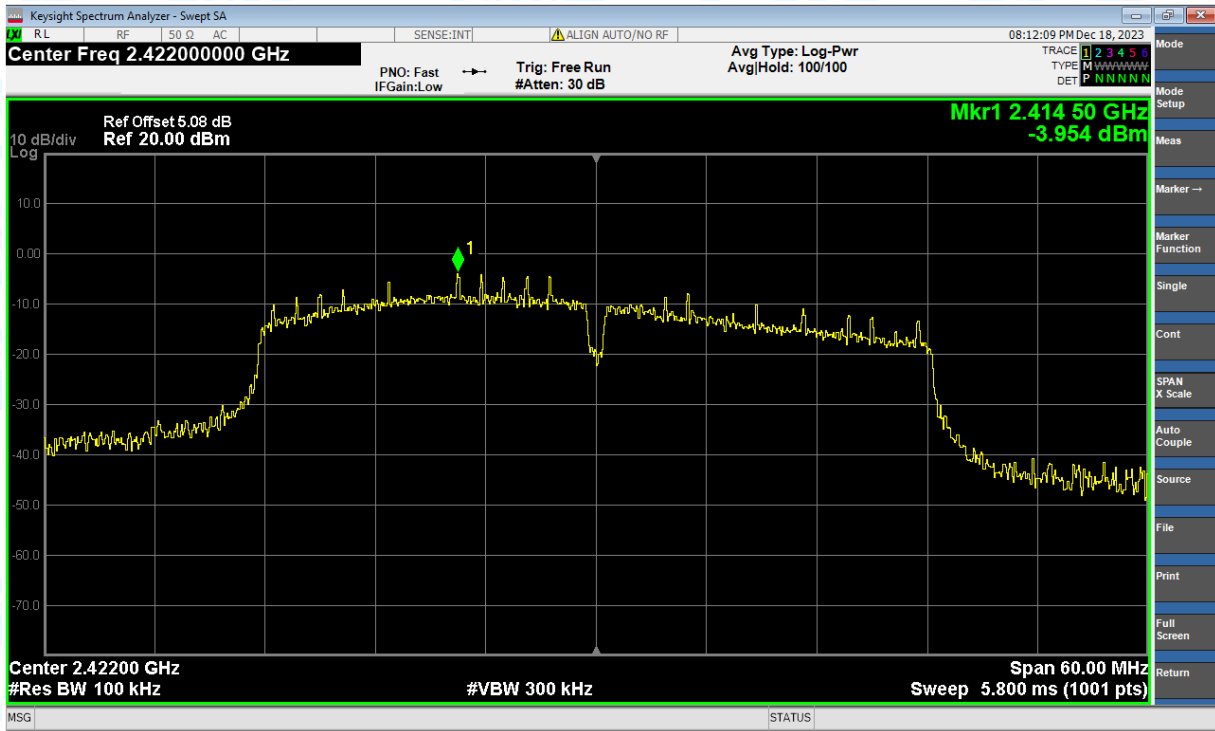


Band Edge NVNT n(HT20) 2412MHz Ant1 Emission

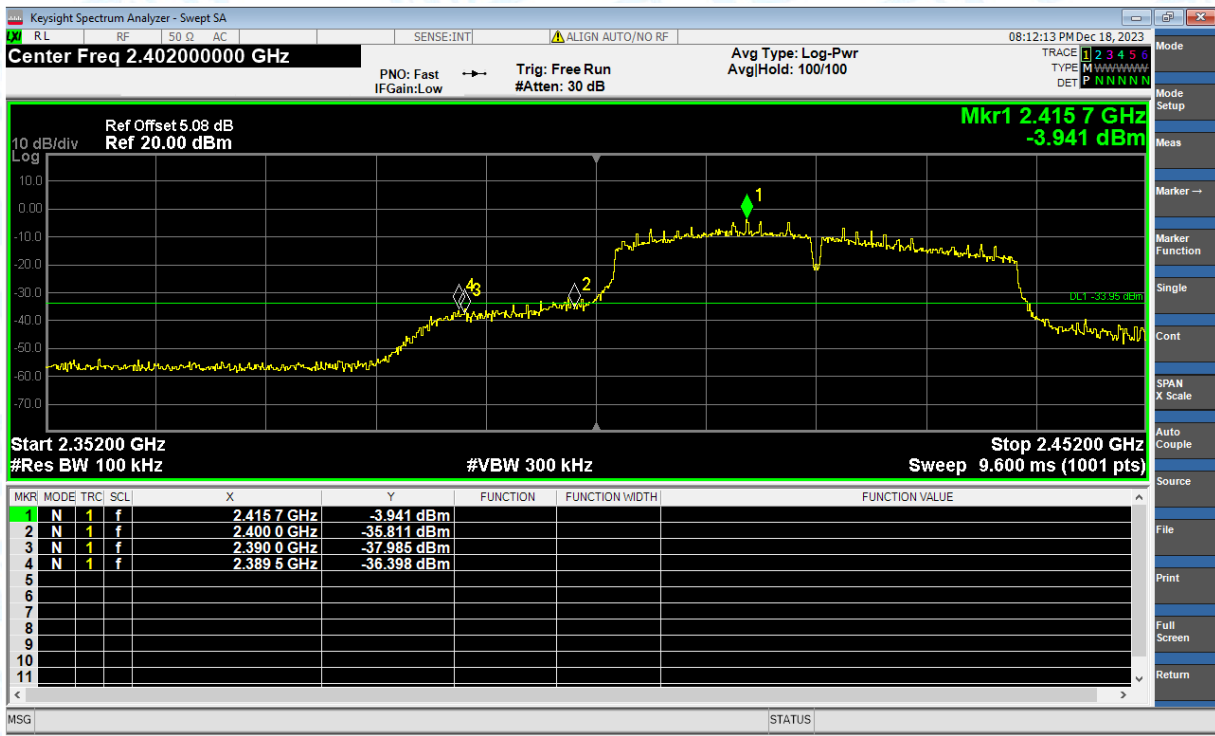




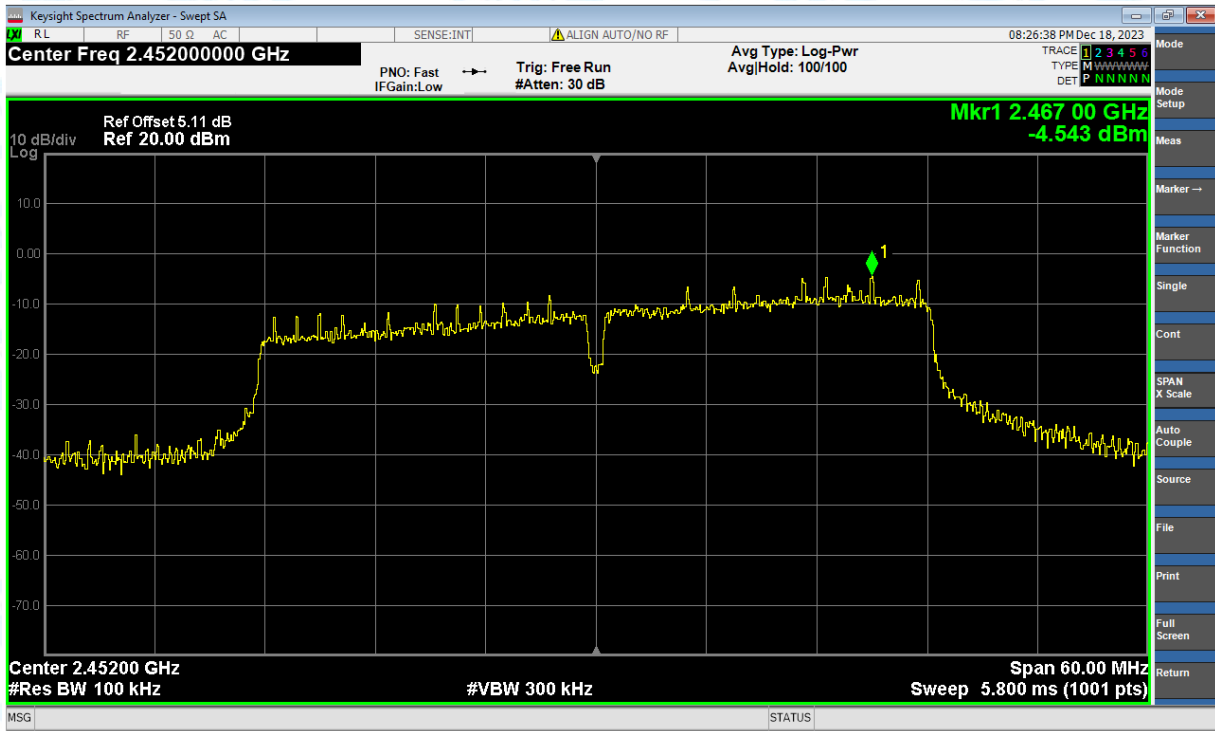
Band Edge NVNT n(HT40) 2422MHz Ant1 Ref



Band Edge NVNT n(HT40) 2422MHz Ant1 Emission



Band Edge NVNT n(HT40) 2452MHz Ant1 Ref



Band Edge NVNT n(HT40) 2452MHz Ant1 Emission



7. Conducted RF Spurious Emission

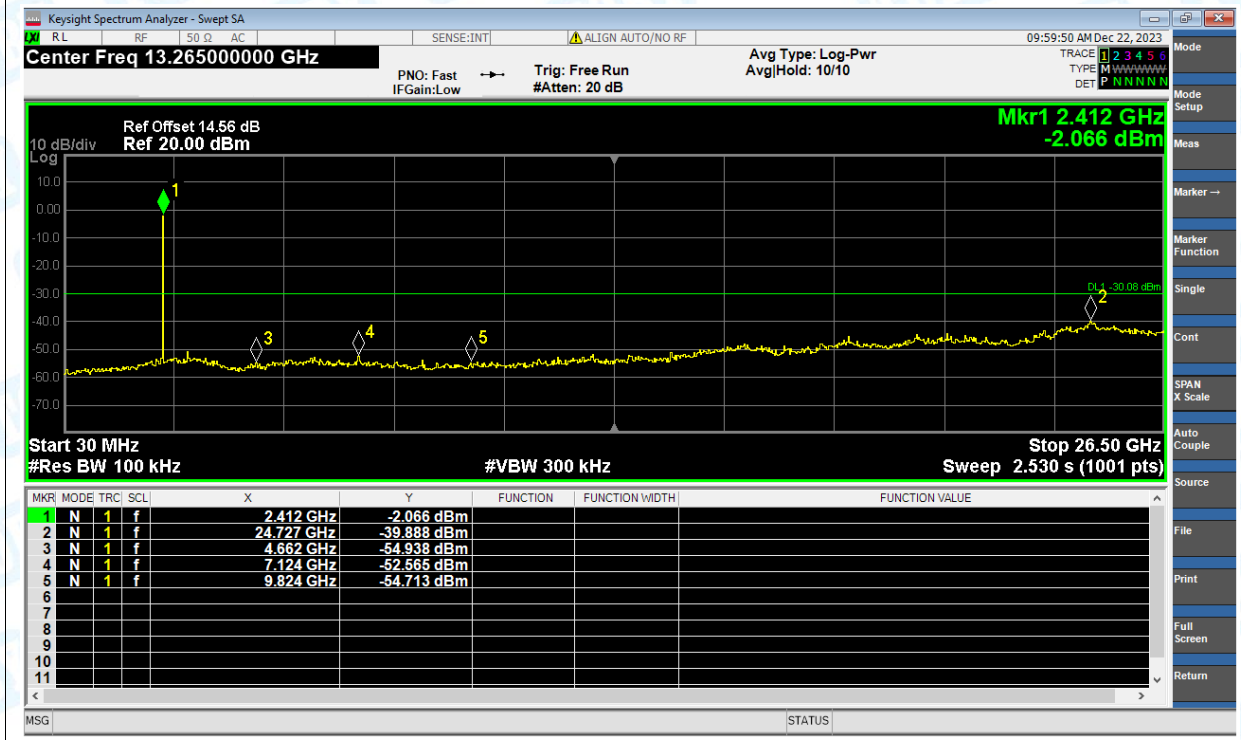
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-39.81	-30	Pass
NVNT	b	2437	Ant1	-40.11	-30	Pass
NVNT	b	2462	Ant1	-39.73	-30	Pass
NVNT	g	2412	Ant1	-37.16	-30	Pass
NVNT	g	2437	Ant1	-38.09	-30	Pass
NVNT	g	2462	Ant1	-38.89	-30	Pass
NVNT	n(HT20)	2412	Ant1	-38.09	-30	Pass
NVNT	n(HT20)	2437	Ant1	-36.89	-30	Pass
NVNT	n(HT20)	2462	Ant1	-39.08	-30	Pass
NVNT	n(HT40)	2422	Ant1	-33.73	-30	Pass
NVNT	n(HT40)	2437	Ant1	-34.64	-30	Pass
NVNT	n(HT40)	2452	Ant1	-37.08	-30	Pass

Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



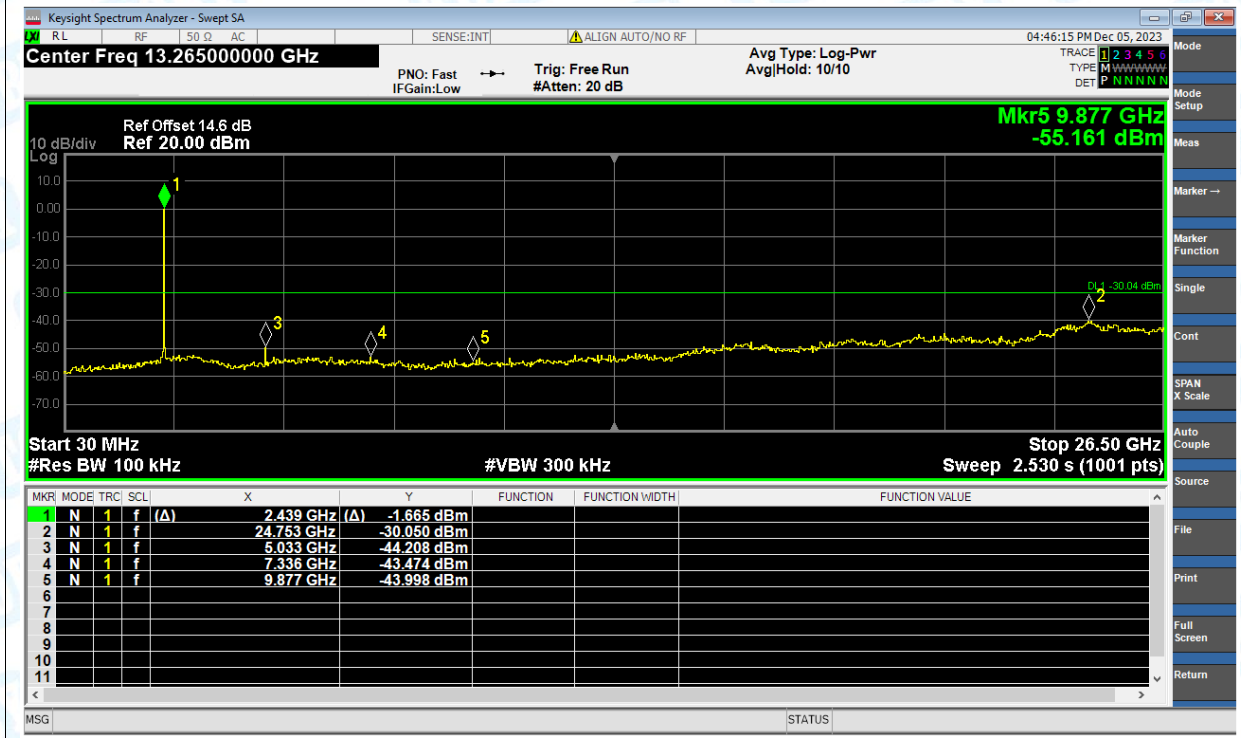
Tx. Spurious NVNT b 2412MHz Ant1 Emission



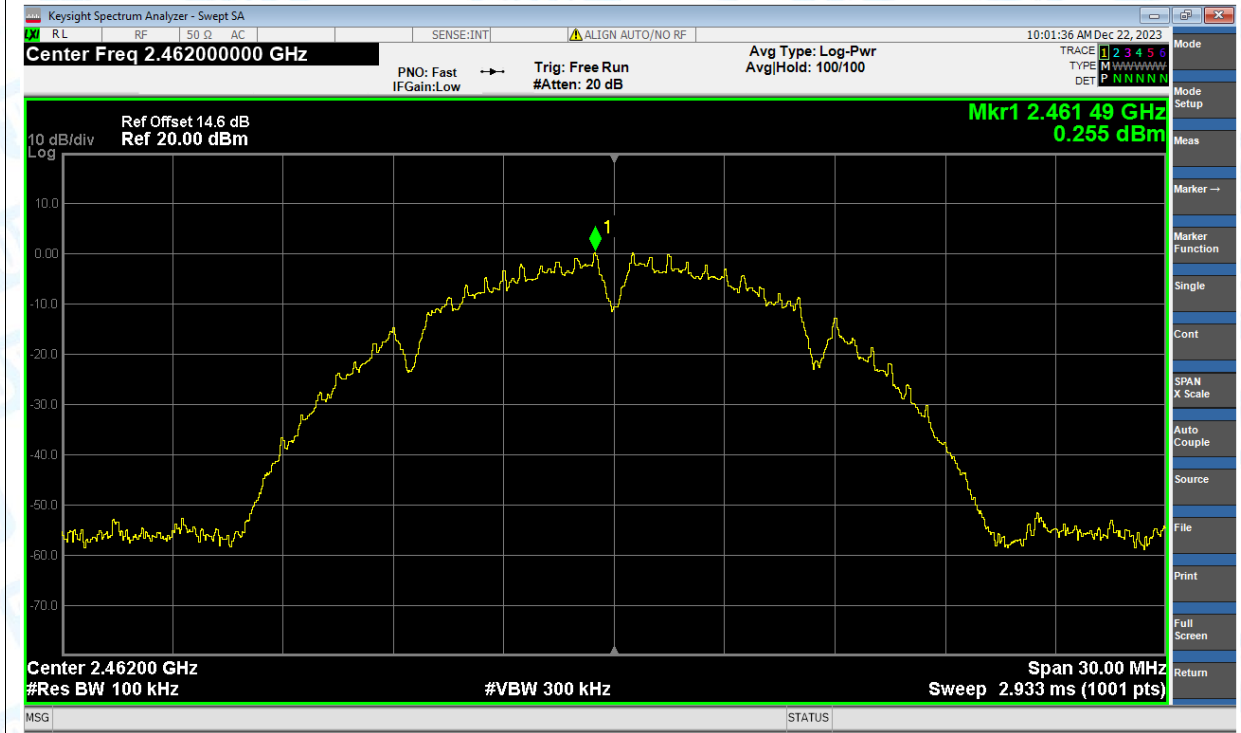
Tx. Spurious NVNT b 2437MHz Ant1 Ref



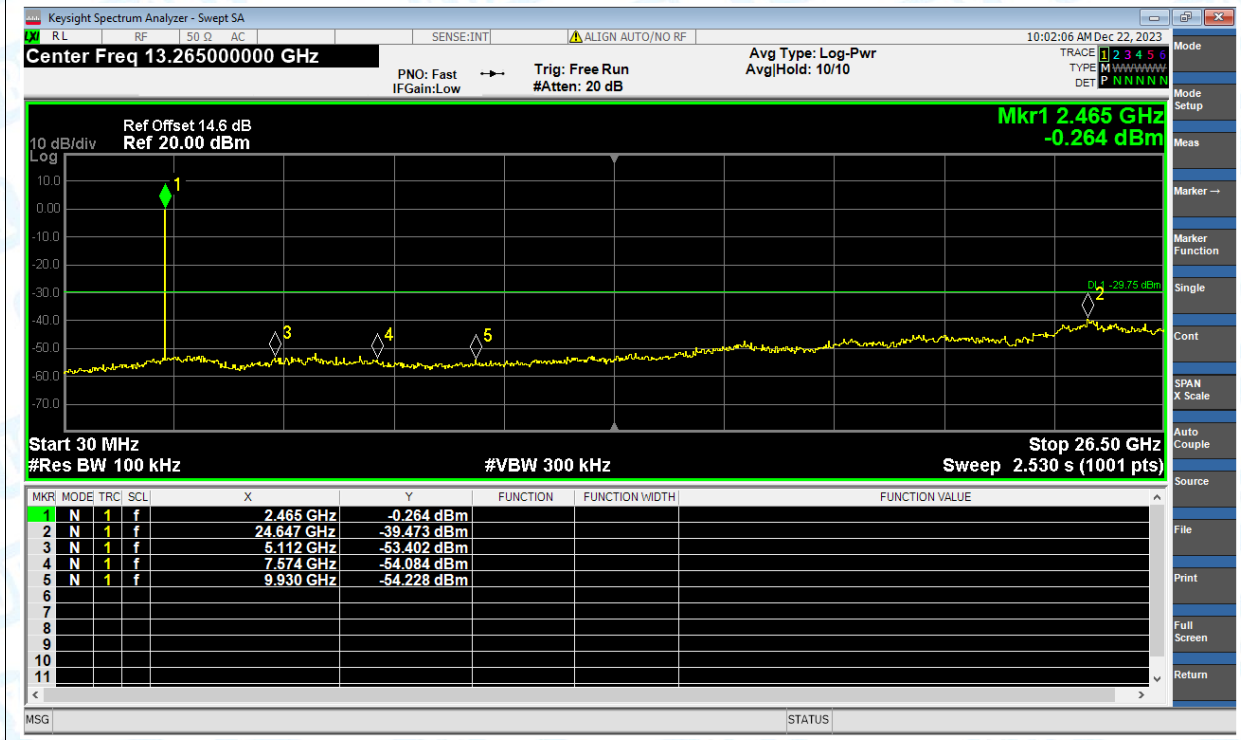
Tx. Spurious NVNT b 2437MHz Ant1 Emission



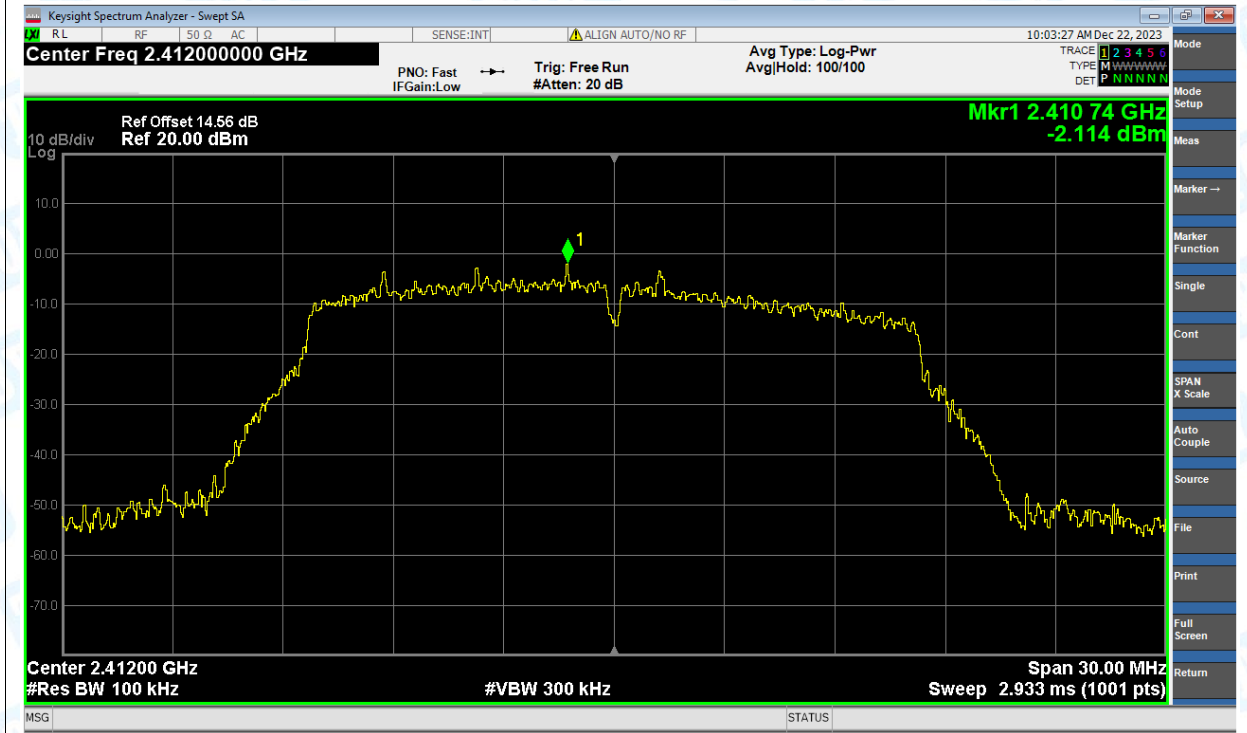
Tx. Spurious NVNT b 2462MHz Ant1 Ref



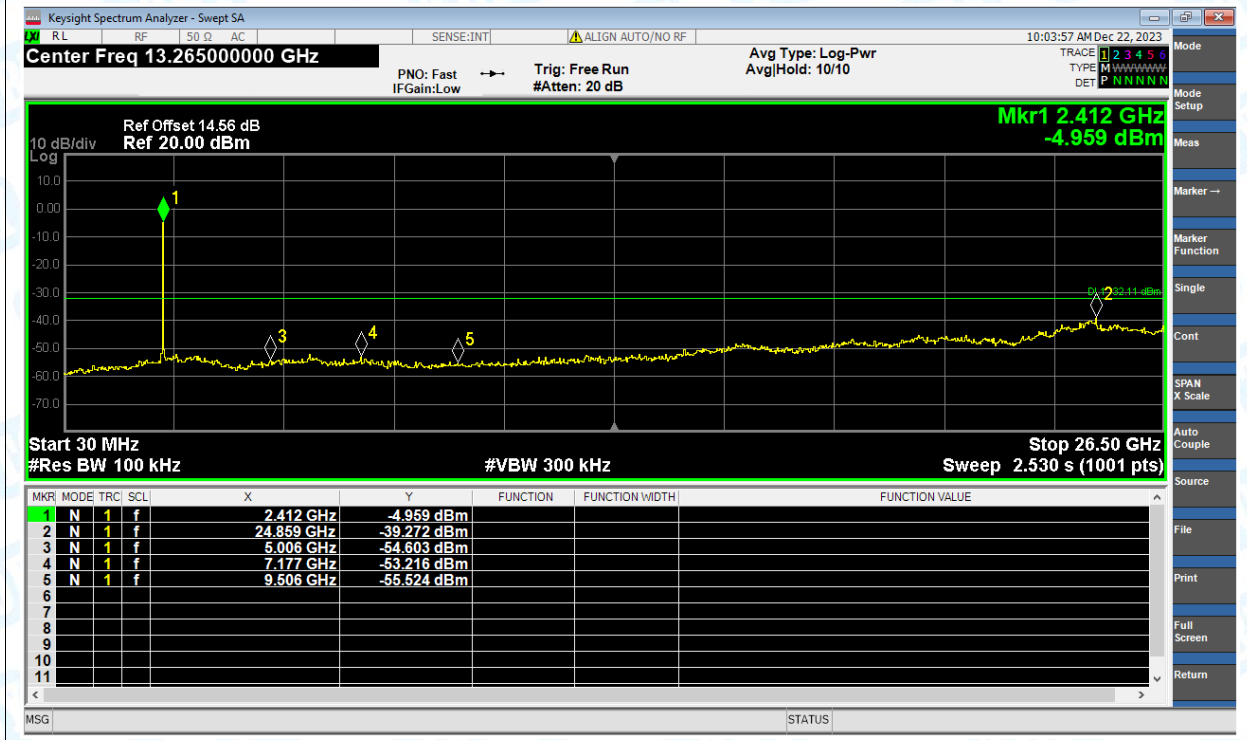
Tx. Spurious NVNT b 2462MHz Ant1 Emission



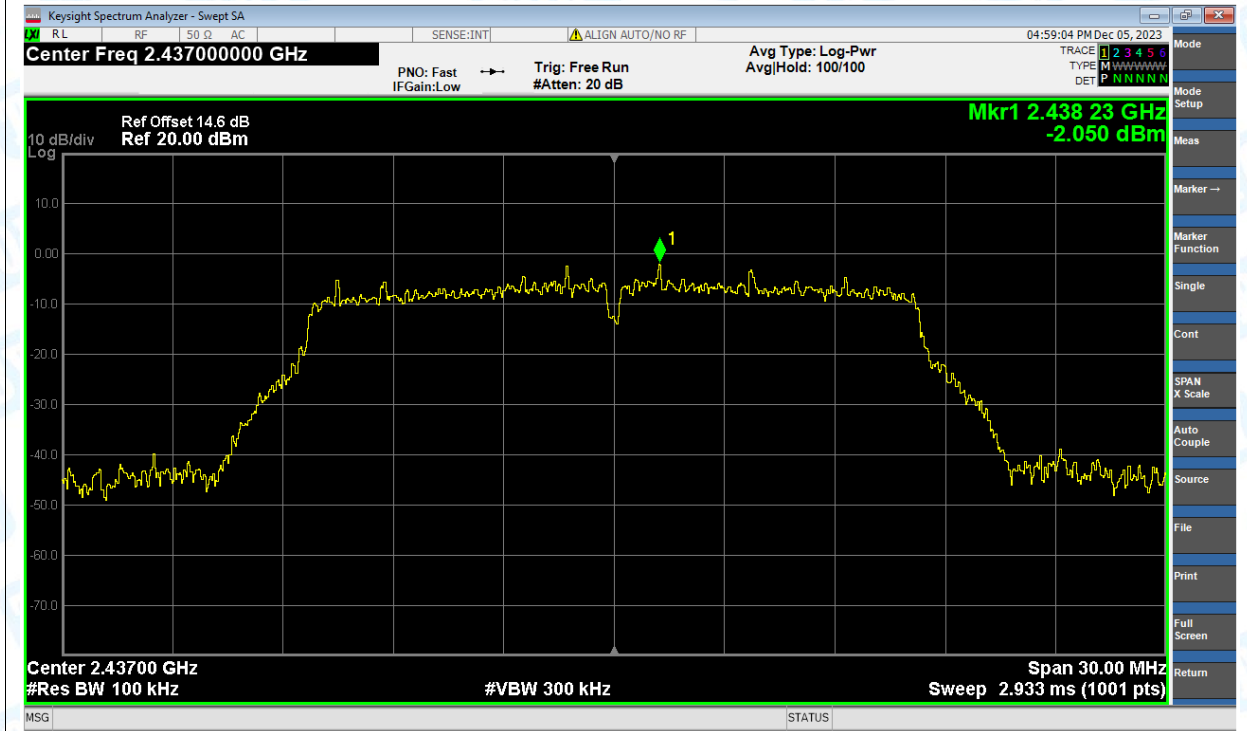
Tx. Spurious NVNT g 2412MHz Ant1 Ref



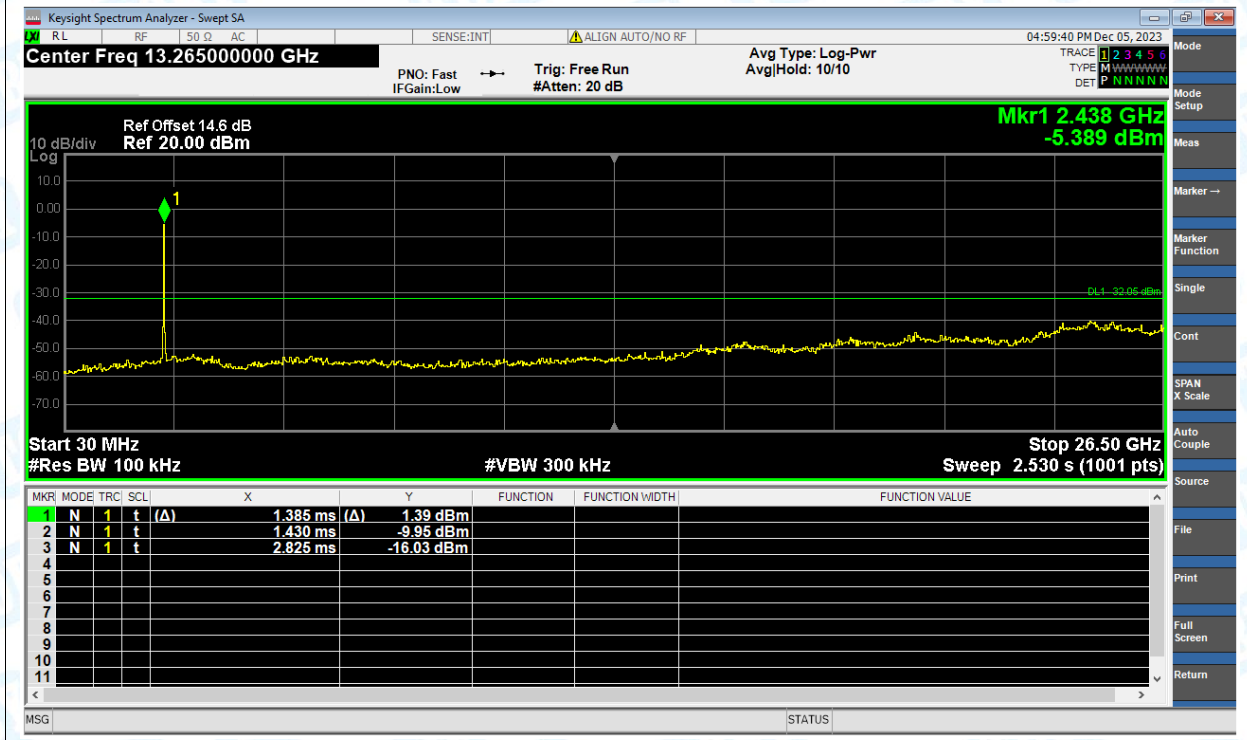
Tx. Spurious NVNT g 2412MHz Ant1 Emission



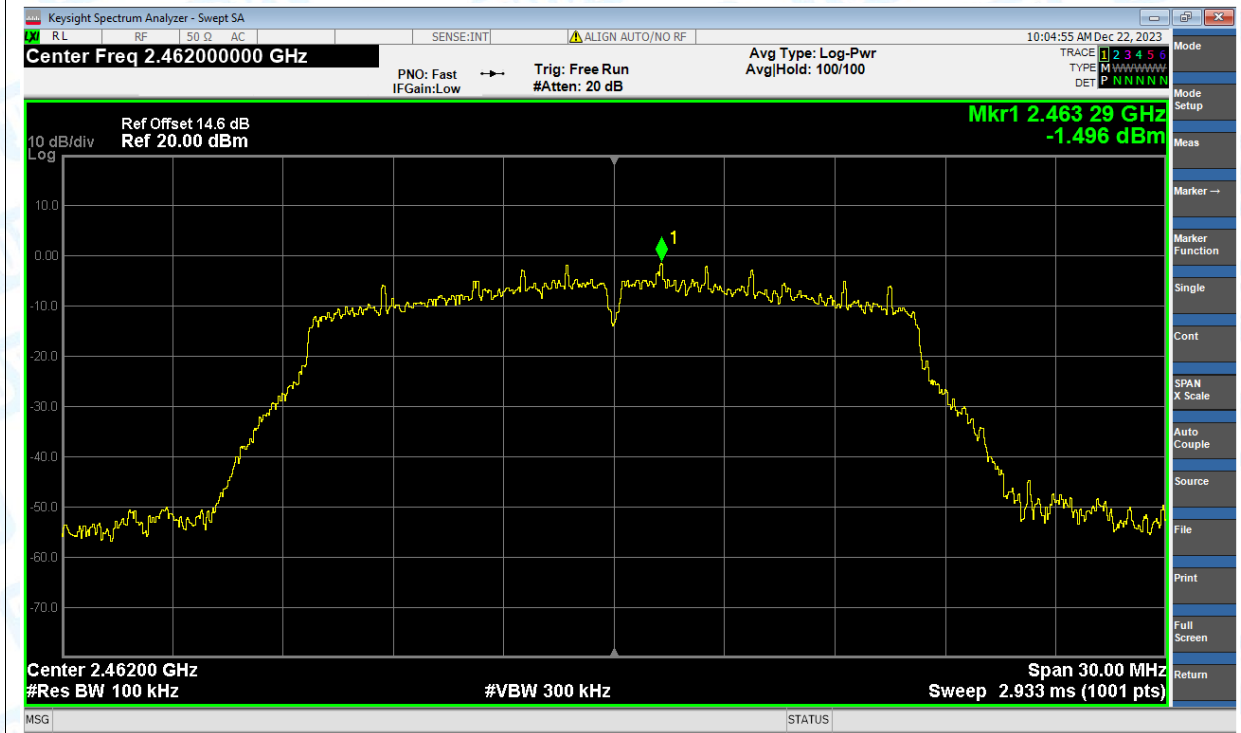
Tx. Spurious NVNT g 2437MHz Ant1 Ref



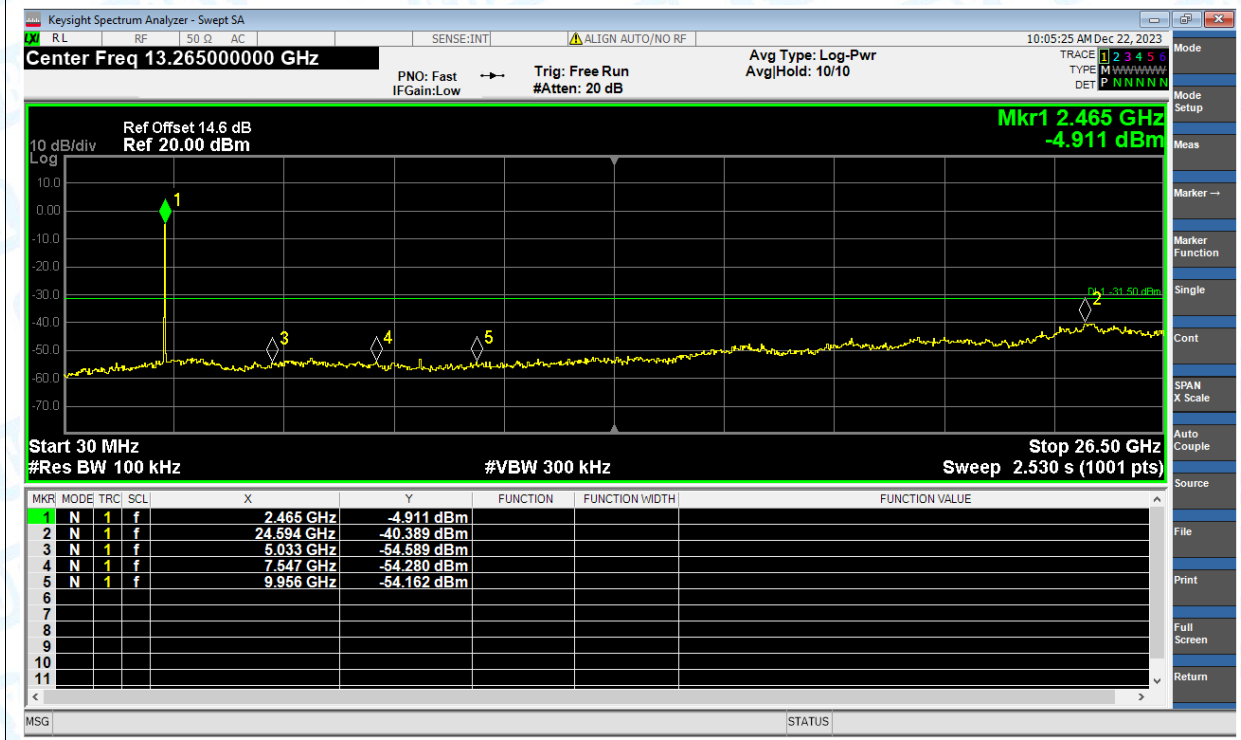
Tx. Spurious NVNT g 2437MHz Ant1 Emission



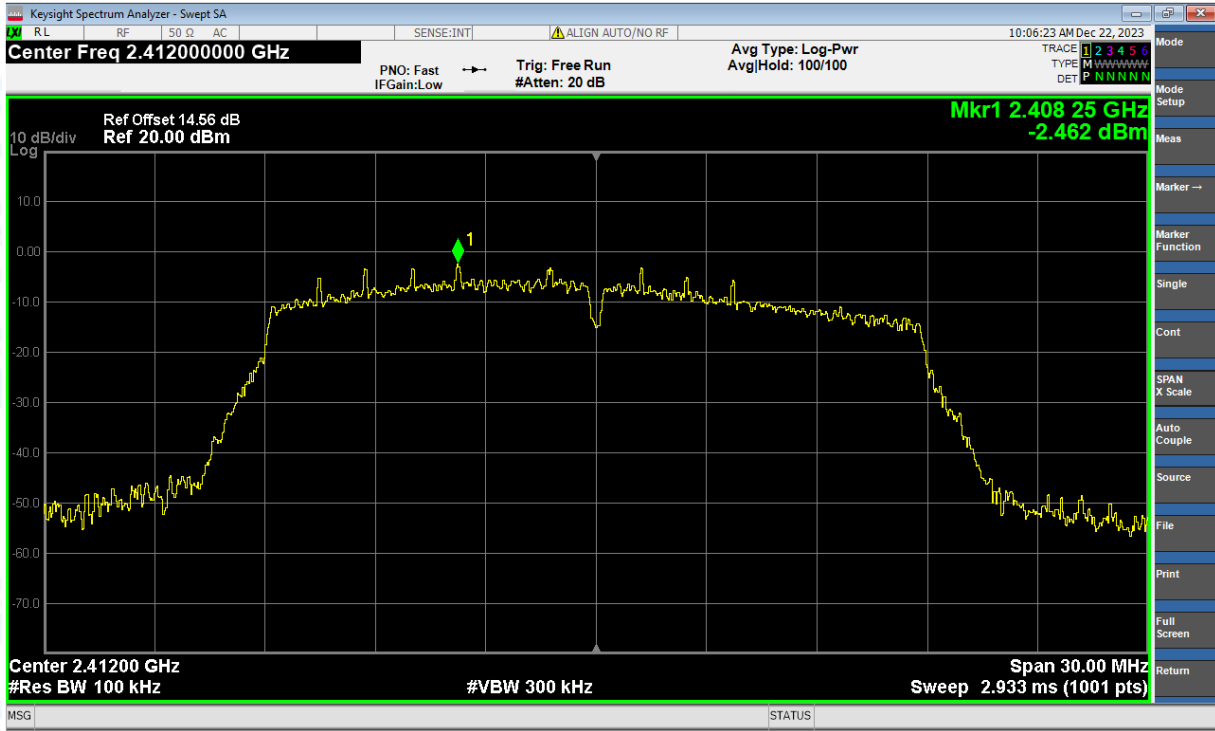
Tx. Spurious NVNT g 2462MHz Ant1 Ref



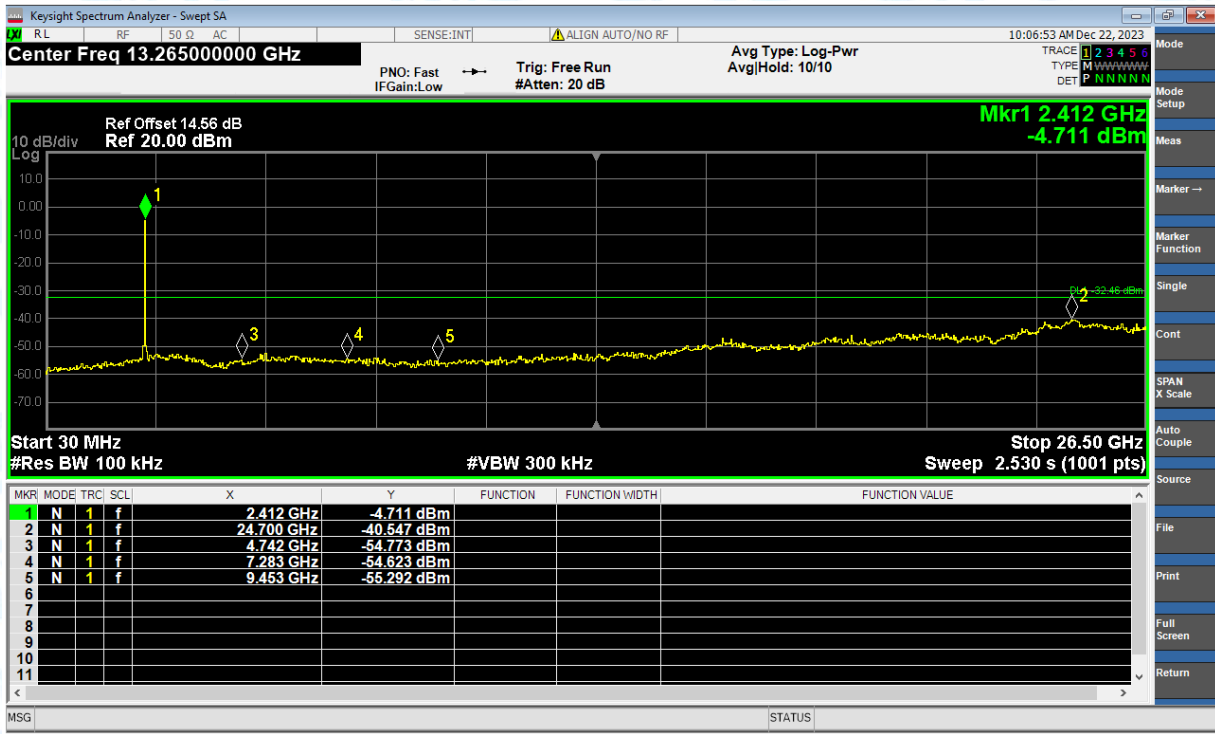
Tx. Spurious NVNT g 2462MHz Ant1 Emission



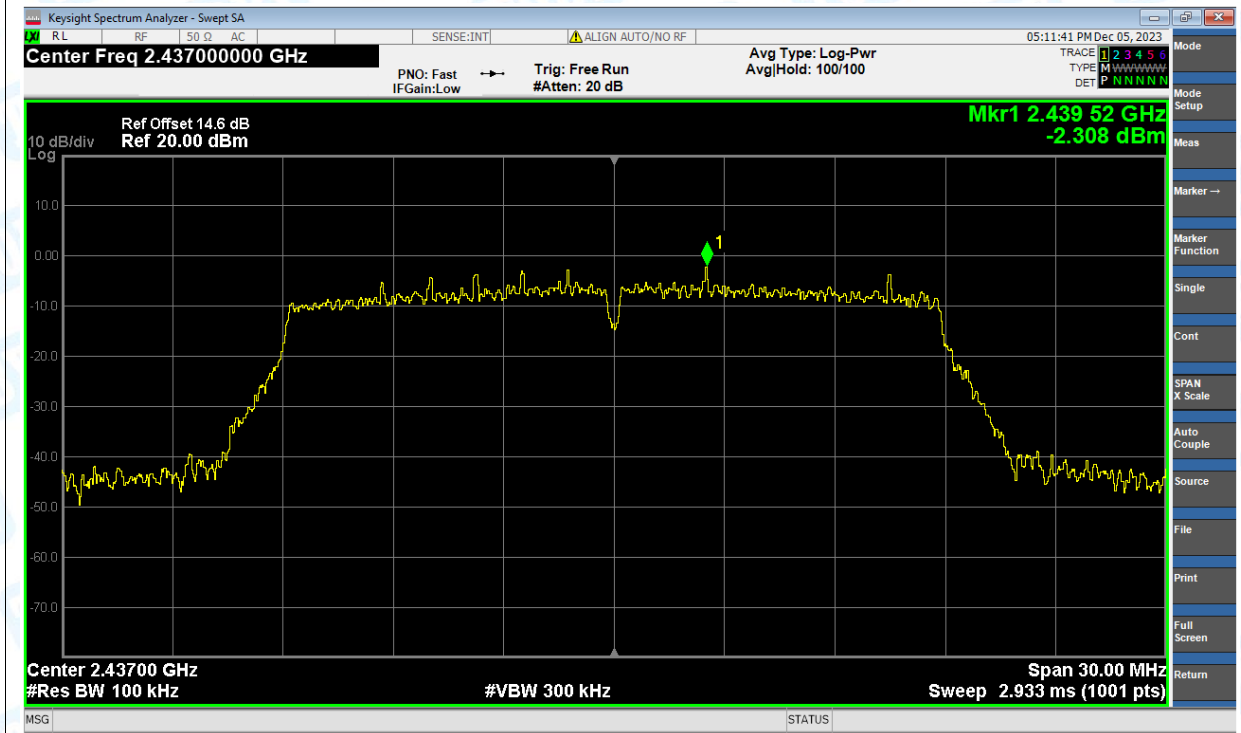
Tx. Spurious NVNT n(HT20) 2412MHz Ant1 Ref



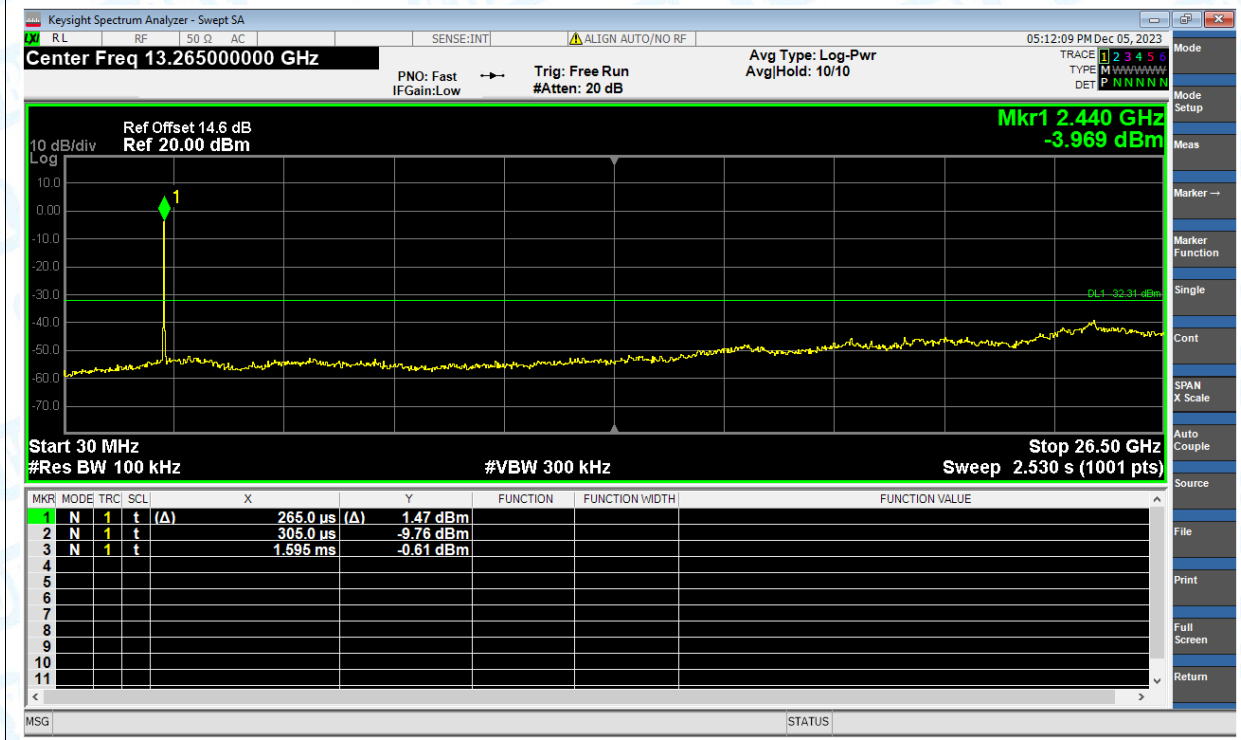
Tx. Spurious NVNT n(HT20) 2412MHz Ant1 Emission



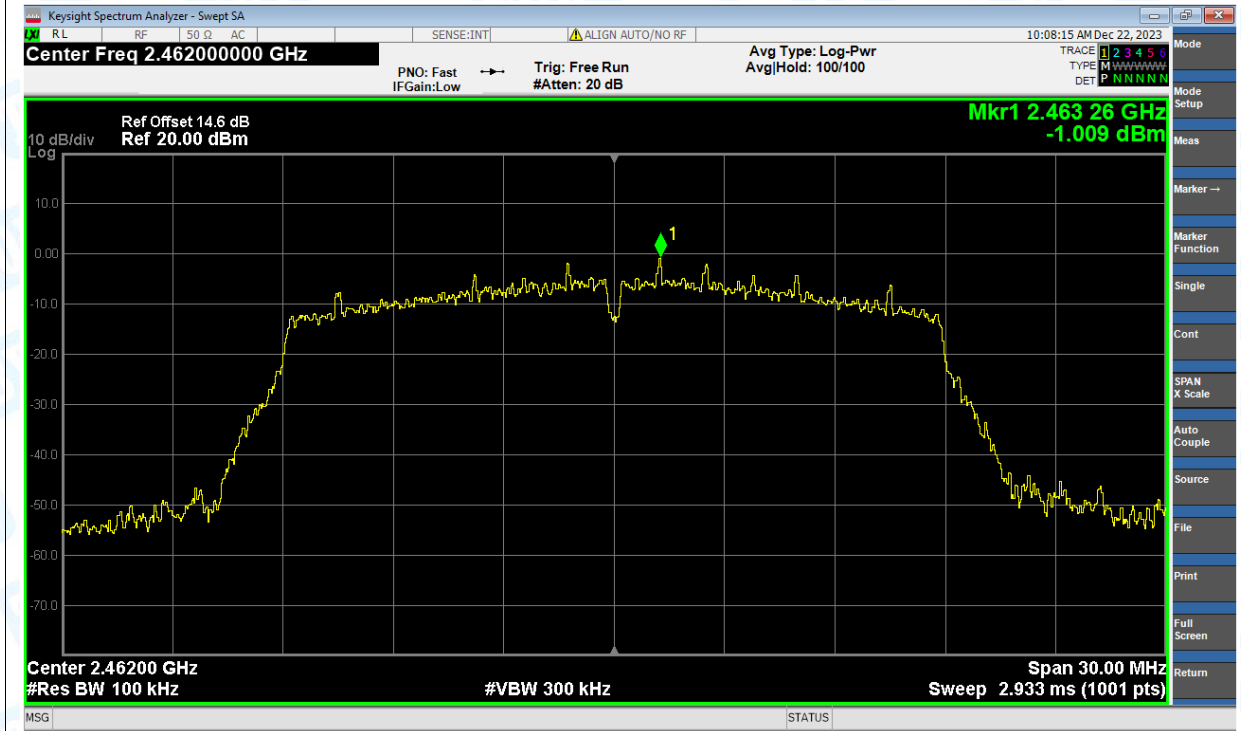
Tx. Spurious NVNT n(HT20) 2437MHz Ant1 Ref



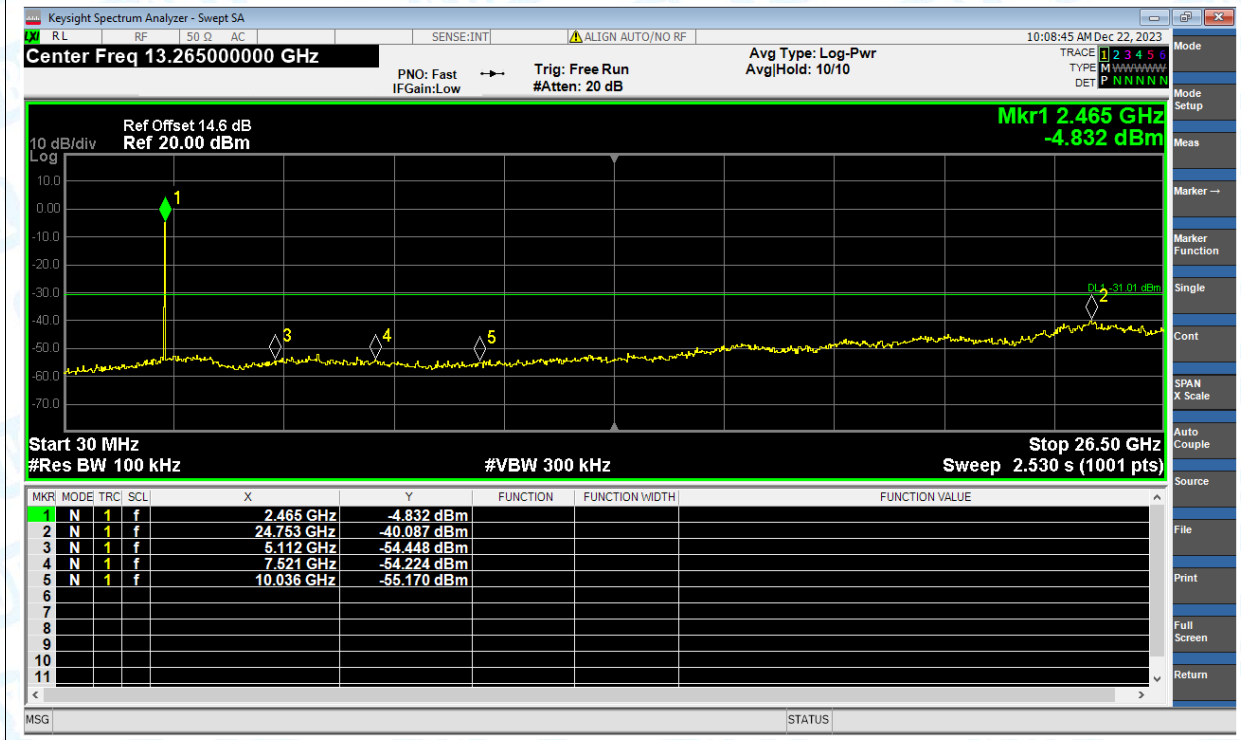
Tx. Spurious NVNT n(HT20) 2437MHz Ant1 Emission



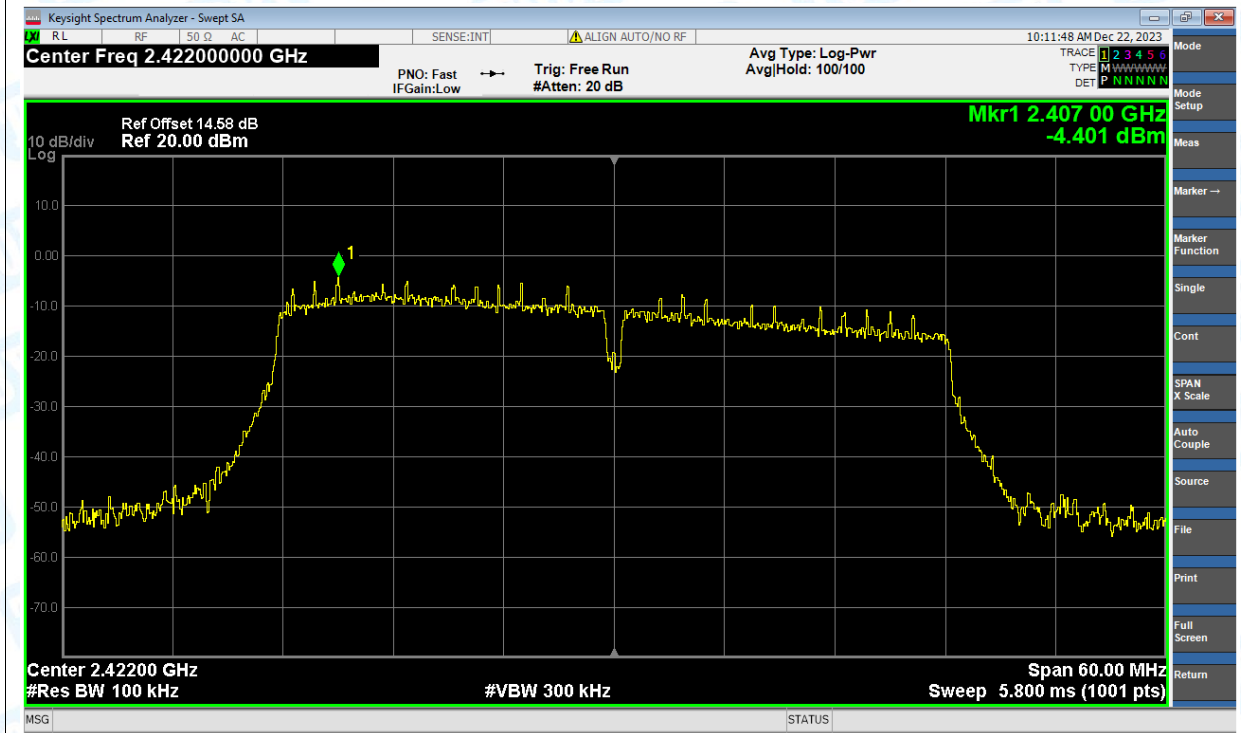
Tx. Spurious NVNT n(HT20) 2462MHz Ant1 Ref



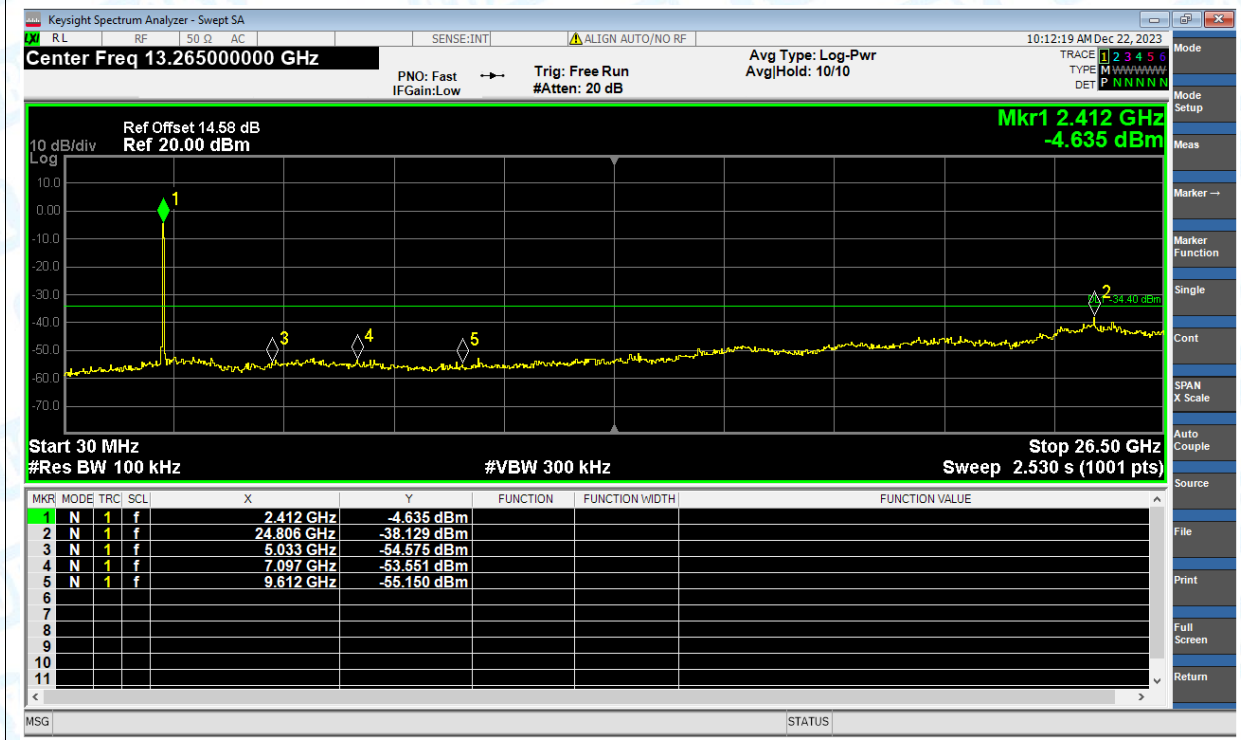
Tx. Spurious NVNT n(HT20) 2462MHz Ant1 Emission



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



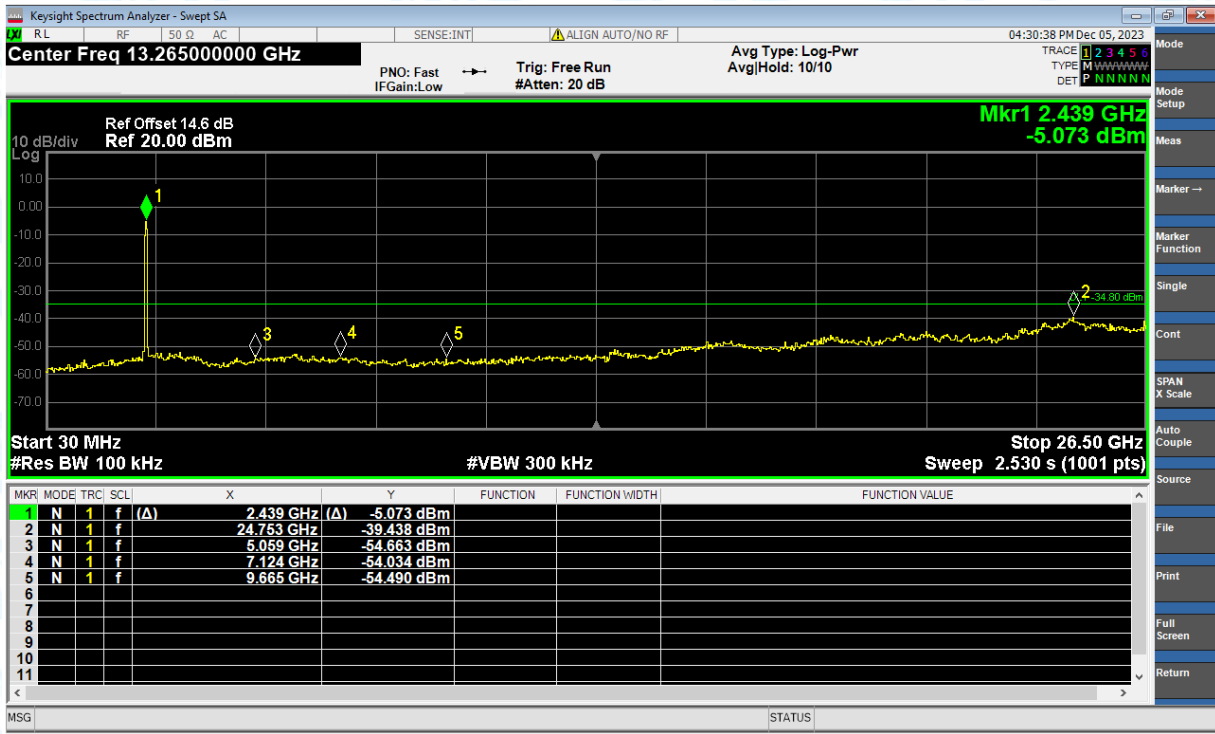
Tx. Spurious NVNT n(HT40) 2422MHz Ant1 Emission



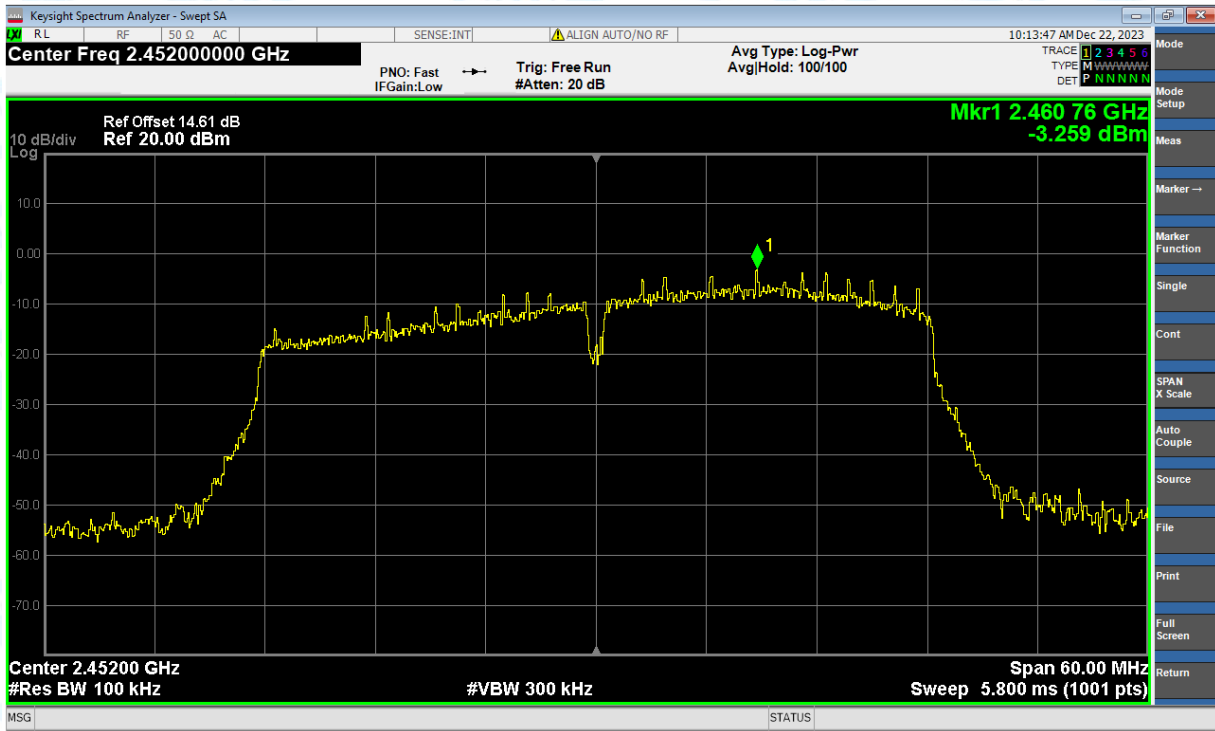
Tx. Spurious NVNT n(HT40) 2437MHz Ant1 Ref



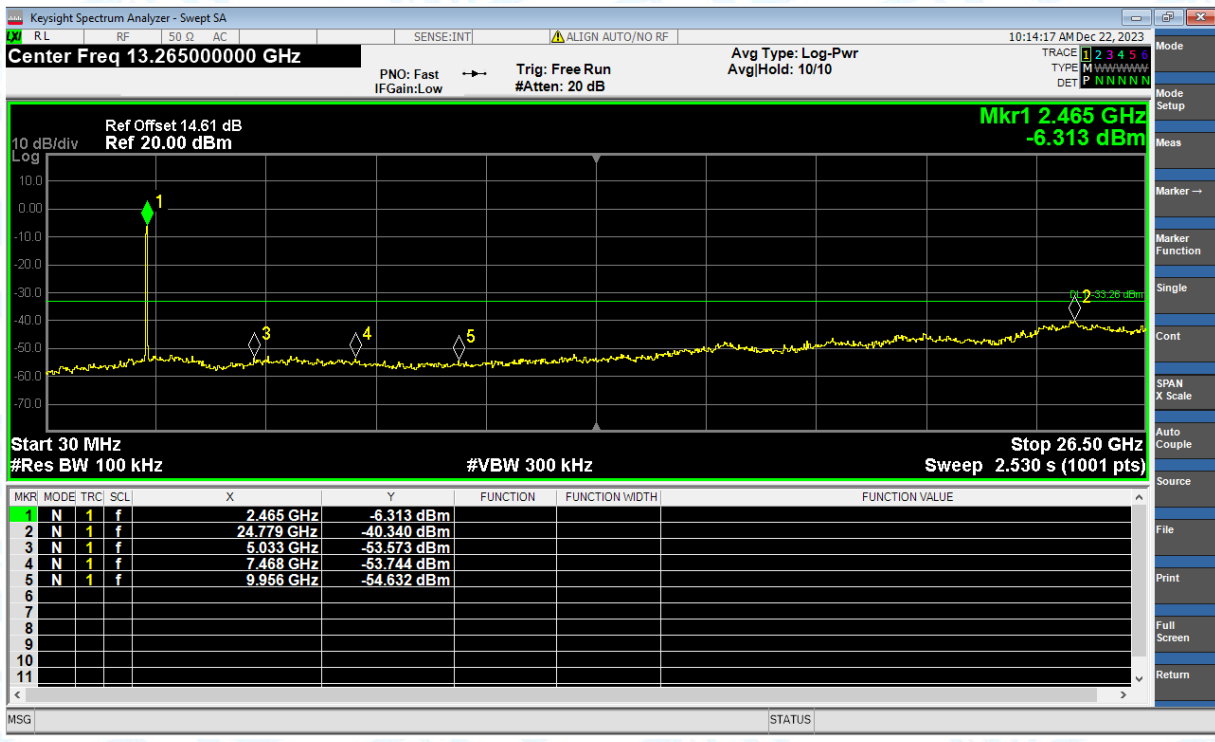
Tx. Spurious NVNT n(HT40) 2437MHz Ant1 Emission



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



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



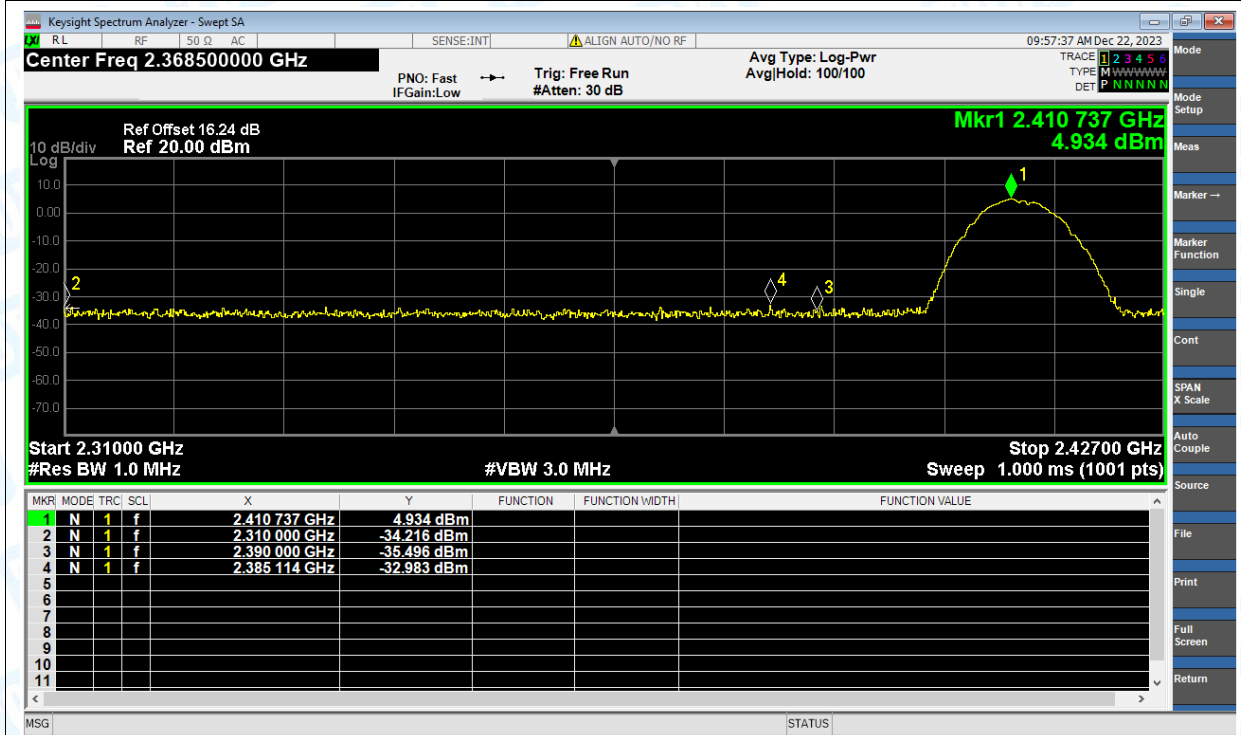
8. Restrict Band

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	-34.22	2	63.04	Peak	74	Pass
NVNT	b	2412	Ant1	2310	-46.19	2	51.07	Average	54	Pass
NVNT	b	2412	Ant1	2385.114	-32.98	2	64.28	Peak	74	Pass
NVNT	b	2412	Ant1	2389.092	-46.05	2	51.21	Average	54	Pass
NVNT	b	2412	Ant1	2390	-35.5	2	61.76	Peak	74	Pass
NVNT	b	2412	Ant1	2390	-46.05	2	51.21	Average	54	Pass
NVNT	b	2462	Ant1	2483.5	-36.23	2	61.03	Peak	74	Pass
NVNT	b	2462	Ant1	2483.5	-45.83	2	51.43	Average	54	Pass
NVNT	b	2462	Ant1	2490.46	-33.38	2	63.88	Peak	74	Pass
NVNT	b	2462	Ant1	2486.697	-45.8	2	51.46	Average	54	Pass
NVNT	b	2462	Ant1	2500	-35.29	2	61.97	Peak	74	Pass
NVNT	b	2462	Ant1	2500	-45.82	2	51.44	Average	54	Pass
NVNT	g	2412	Ant1	2310	-35.92	2	61.34	Peak	74	Pass
NVNT	g	2412	Ant1	2310	-45.88	2	51.38	Average	54	Pass
NVNT	g	2412	Ant1	2354.46	-33.23	2	64.03	Peak	74	Pass
NVNT	g	2412	Ant1	2389.911	-45.38	2	51.88	Average	54	Pass
NVNT	g	2412	Ant1	2390	-36.53	2	60.73	Peak	74	Pass
NVNT	g	2412	Ant1	2390	-45.43	2	51.83	Average	54	Pass
NVNT	g	2462	Ant1	2483.5	-36.52	2	60.74	Peak	74	Pass
NVNT	g	2462	Ant1	2483.5	-45.47	2	51.79	Average	54	Pass
NVNT	g	2462	Ant1	2494.382	-33.2	2	64.06	Peak	74	Pass
NVNT	g	2462	Ant1	2488.446	-44.99	2	52.27	Average	54	Pass
NVNT	g	2462	Ant1	2500	-36.68	2	60.58	Peak	74	Pass
NVNT	g	2462	Ant1	2500	-45.57	2	51.69	Average	54	Pass
NVNT	n(HT20)	2412	Ant1	2310	-37.31	2	59.95	Peak	74	Pass
NVNT	n(HT20)	2412	Ant1	2310	-45.59	2	51.67	Average	54	Pass
NVNT	n(HT20)	2412	Ant1	2380.434	-33.07	2	64.19	Peak	74	Pass
NVNT	n(HT20)	2412	Ant1	2389.911	-45.23	2	52.03	Average	54	Pass
NVNT	n(HT20)	2412	Ant1	2390	-36.34	2	60.92	Peak	74	Pass
NVNT	n(HT20)	2412	Ant1	2390	-45.55	2	51.71	Average	54	Pass
NVNT	n(HT20)	2462	Ant1	2483.5	-36.28	2	60.98	Peak	74	Pass
NVNT	n(HT20)	2462	Ant1	2483.5	-45.42	2	51.84	Average	54	Pass
NVNT	n(HT20)	2462	Ant1	2488.499	-32.91	2	64.35	Peak	74	Pass
NVNT	n(HT20)	2462	Ant1	2489.506	-44.95	2	52.31	Average	54	Pass
NVNT	n(HT20)	2462	Ant1	2500	-35.6	2	61.66	Peak	74	Pass
NVNT	n(HT20)	2462	Ant1	2500	-45.39	2	51.87	Average	54	Pass
NVNT	n(HT40)	2422	Ant1	2310	-36.98	2	60.28	Peak	74	Pass
NVNT	n(HT40)	2422	Ant1	2310	-45.51	2	51.75	Average	54	Pass
NVNT	n(HT40)	2422	Ant1	2387.248	-33.27	2	63.99	Peak	74	Pass
NVNT	n(HT40)	2422	Ant1	2386.964	-44.67	2	52.59	Average	54	Pass
NVNT	n(HT40)	2422	Ant1	2390	-34.71	2	62.55	Peak	74	Pass
NVNT	n(HT40)	2422	Ant1	2390	-44.94	2	52.32	Average	54	Pass

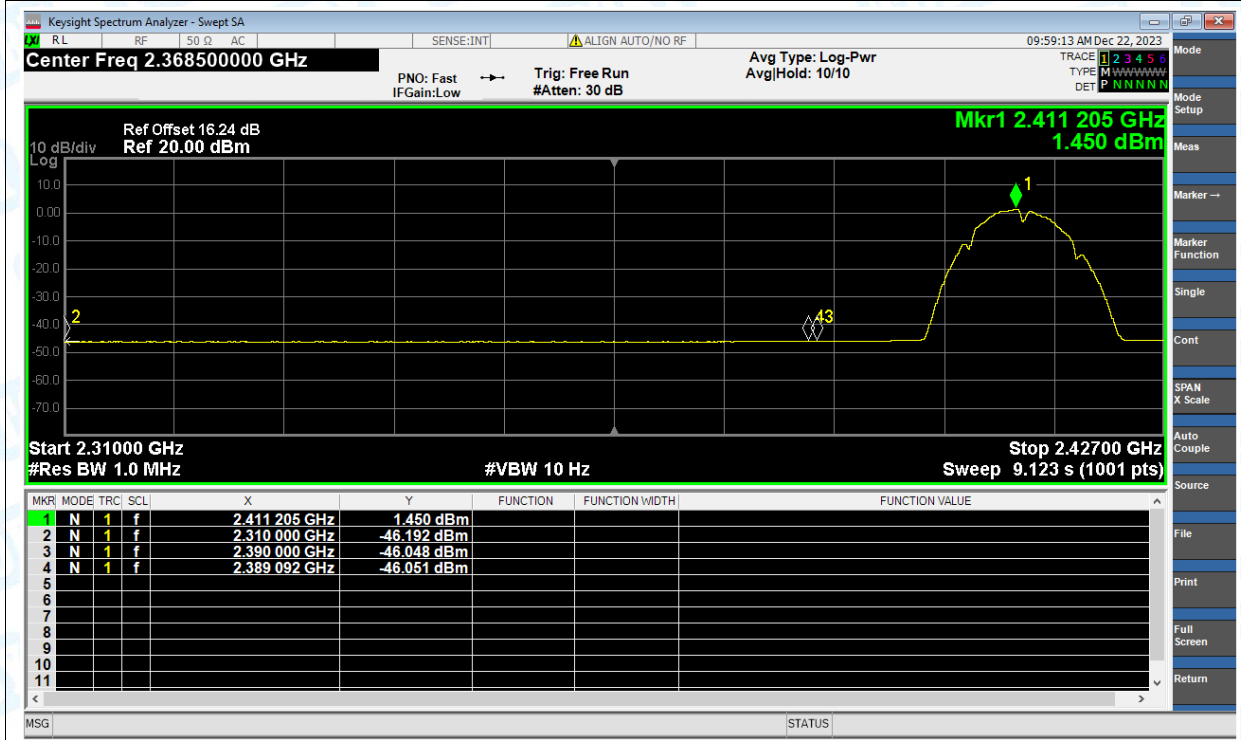
NVNT	n(HT40)	2452	Ant1	2483.5	-33.95	2	63.31	Peak	74	Pass
NVNT	n(HT40)	2452	Ant1	2483.5	-44.88	2	52.38	Average	54	Pass
NVNT	n(HT40)	2452	Ant1	2484.166	-30.46	2	66.8	Peak	74	Pass
NVNT	n(HT40)	2452	Ant1	2488.534	-44.2	2	53.06	Average	54	Pass
NVNT	n(HT40)	2452	Ant1	2500	-35.37	2	61.89	Peak	74	Pass
NVNT	n(HT40)	2452	Ant1	2500	-45.13	2	52.13	Average	54	Pass

Test Graphs

Restrict Band NVNT b 2412MHz Ant1 Peak



Restrict Band NVNT b 2412MHz Ant1 Average



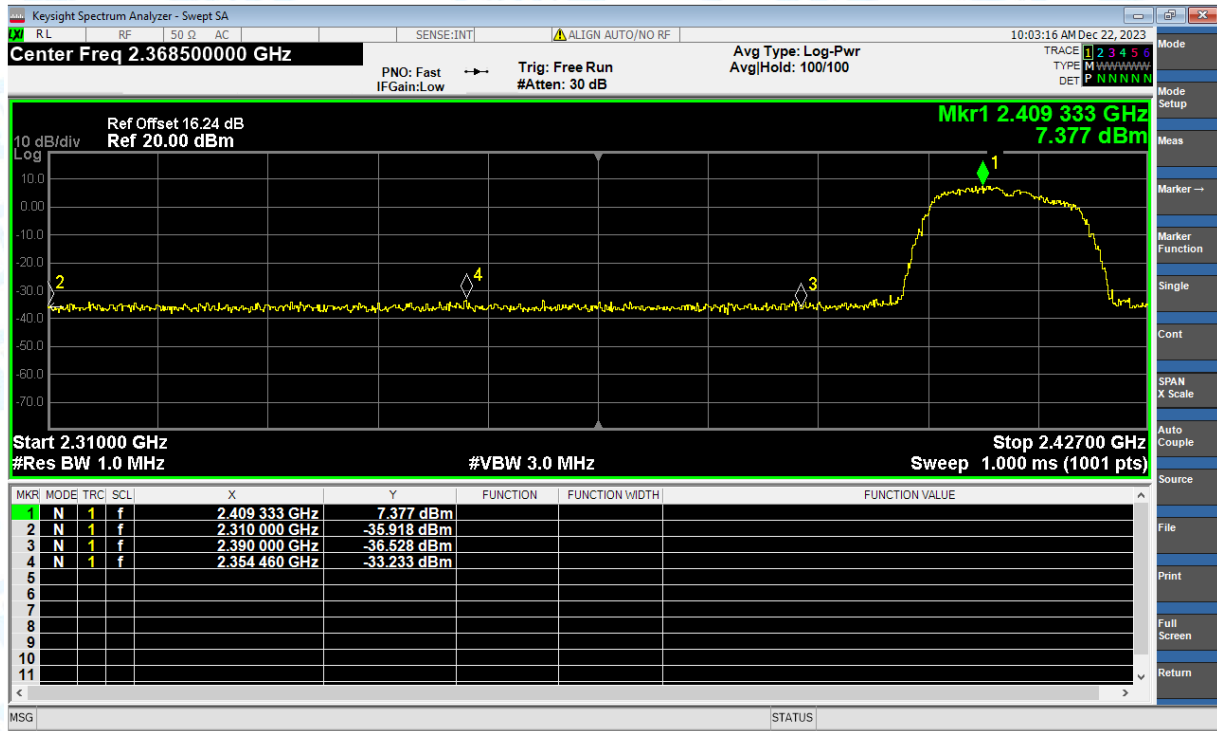
Restrict Band NVNT b 2462MHz Ant1 Peak



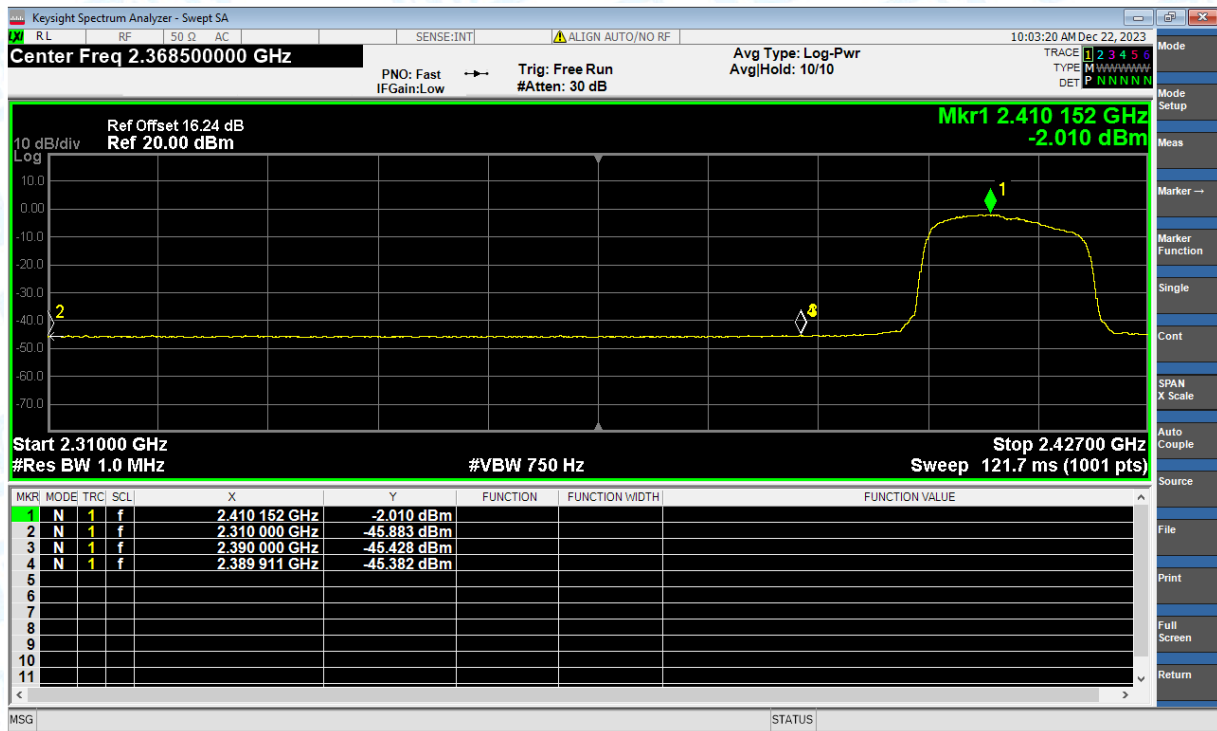
Restrict Band NVNT b 2462MHz Ant1 Average



Restrict Band NVNT g 2412MHz Ant1 Peak



Restrict Band NVNT g 2412MHz Ant1 Average

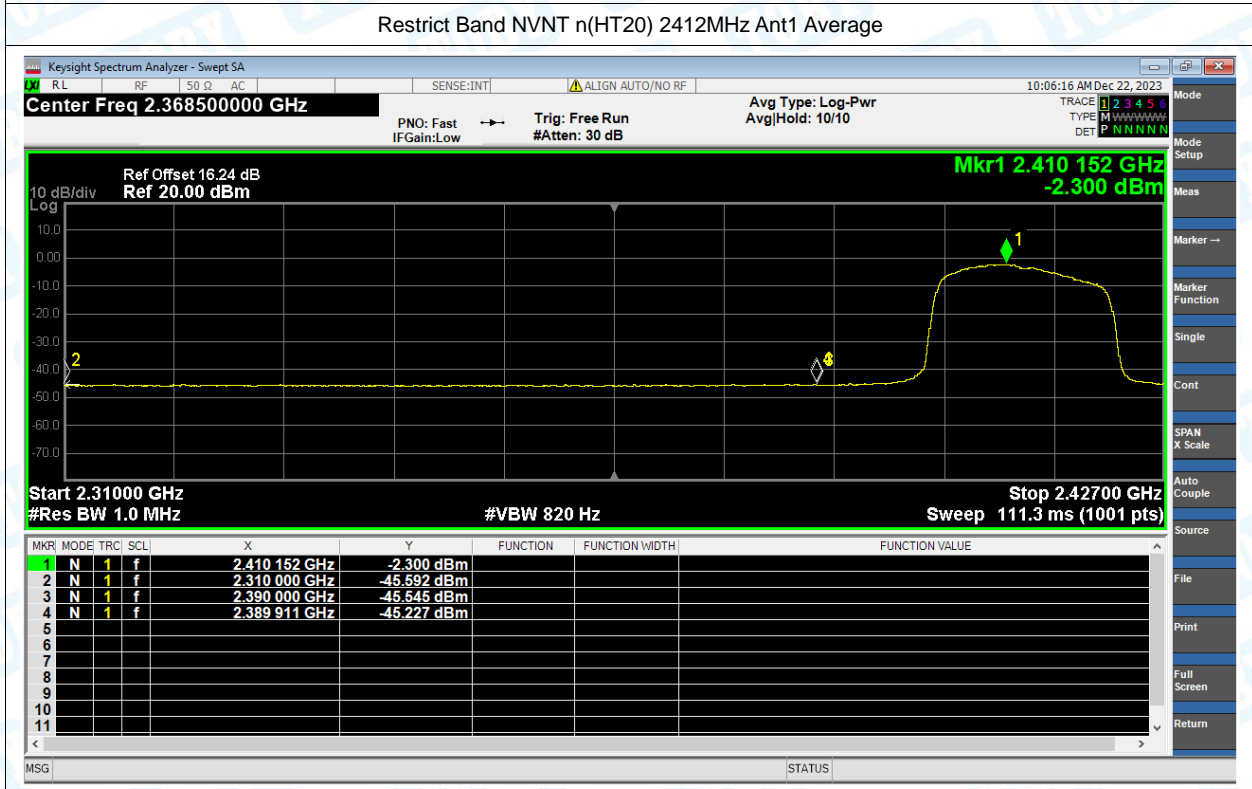
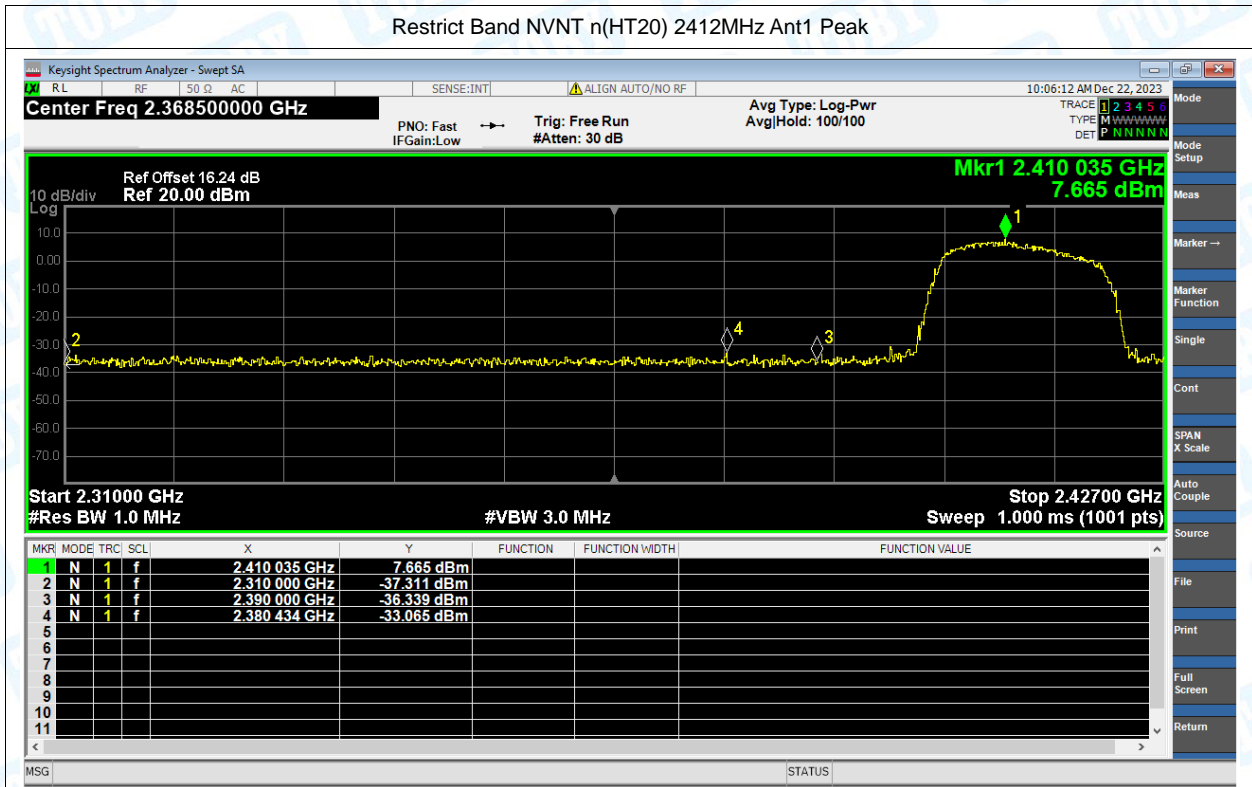


Restrict Band NVNT g 2462MHz Ant1 Peak



Restrict Band NVNT g 2462MHz Ant1 Average

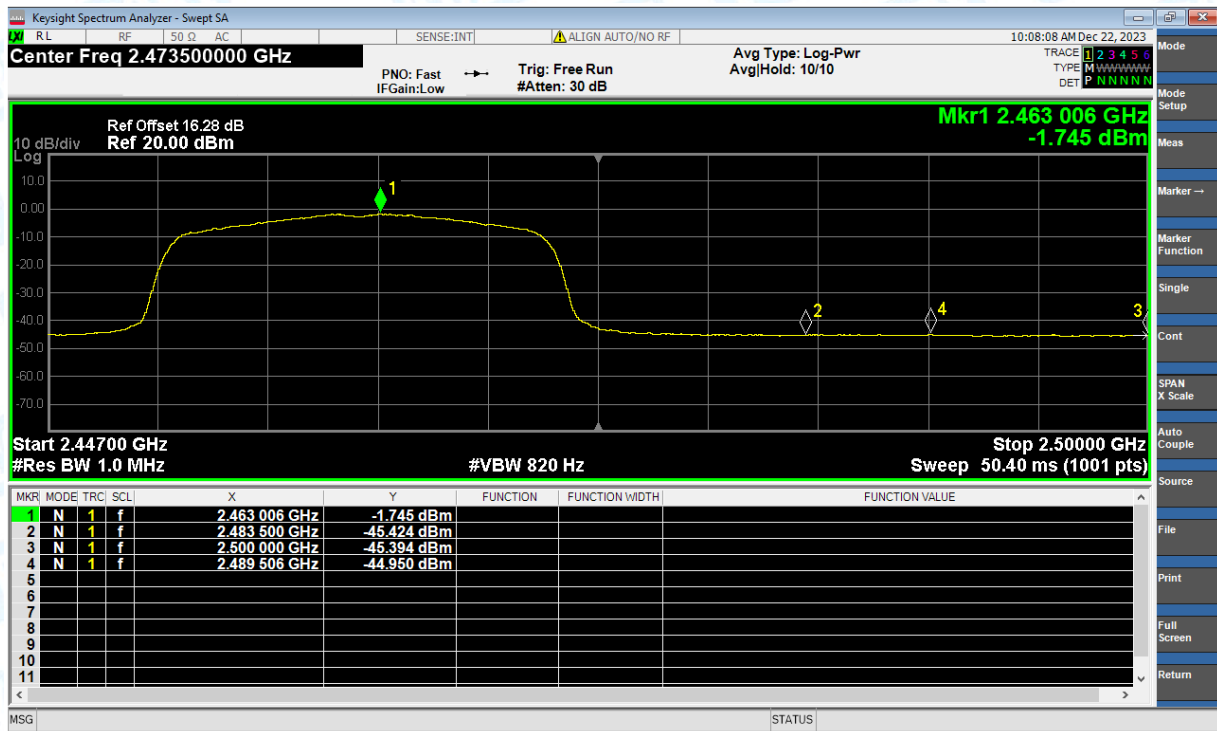




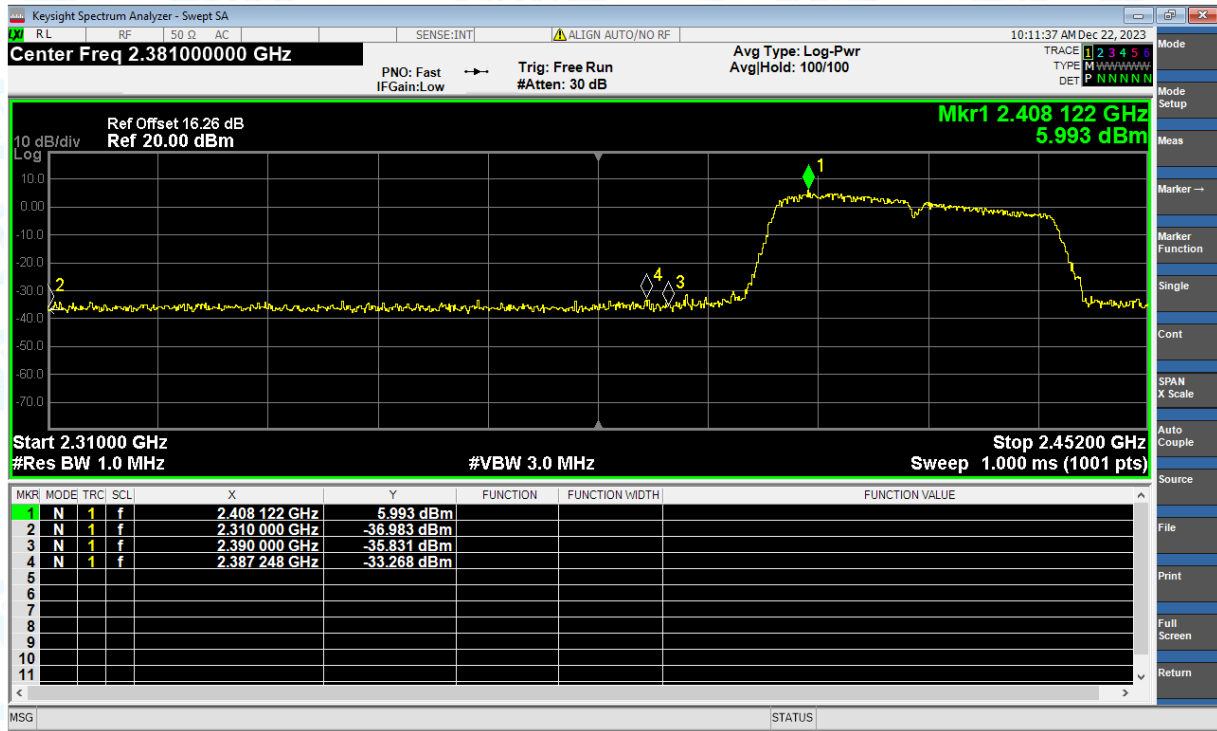
Restrict Band NVNT n(HT20) 2462MHz Ant1 Peak



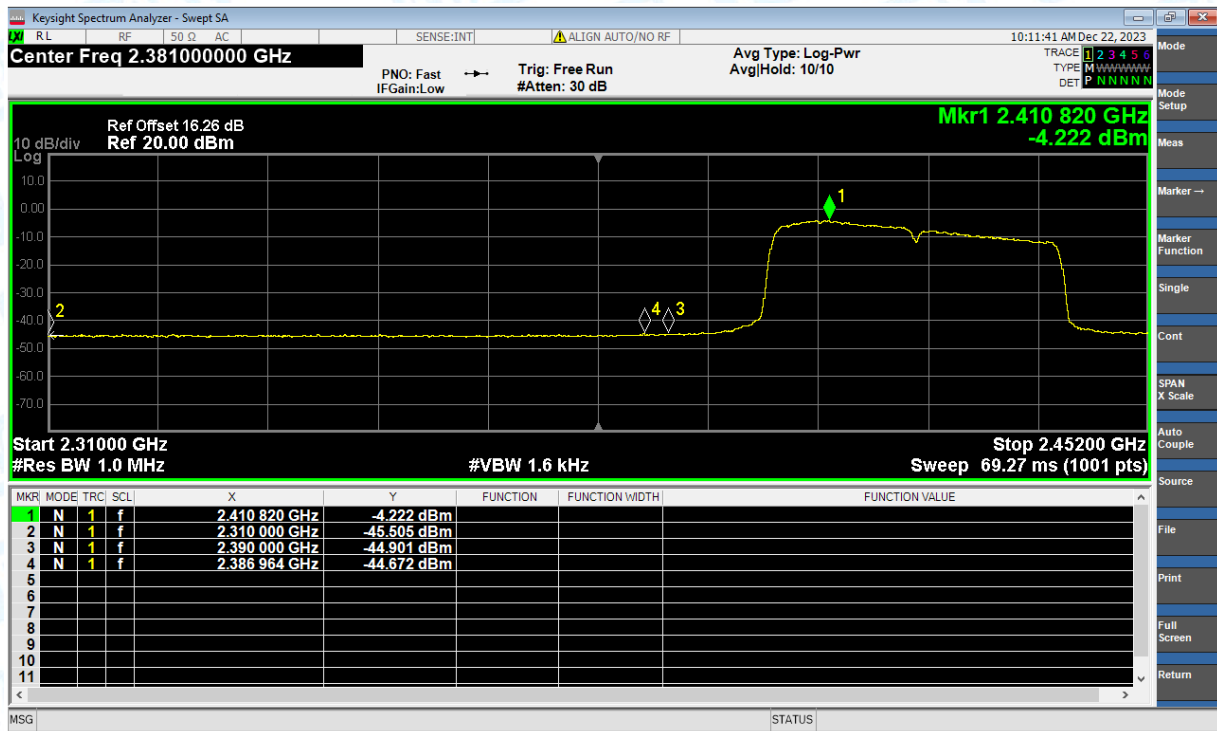
Restrict Band NVNT n(HT20) 2462MHz Ant1 Average

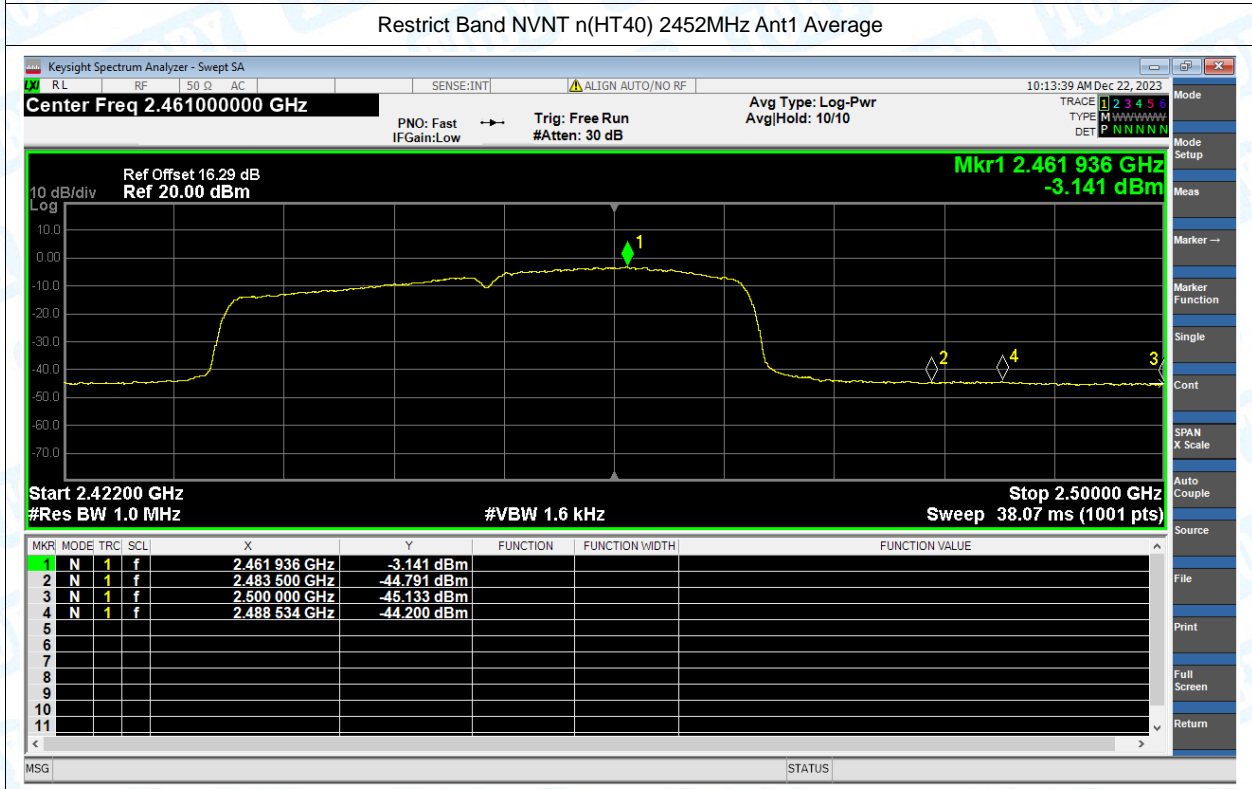
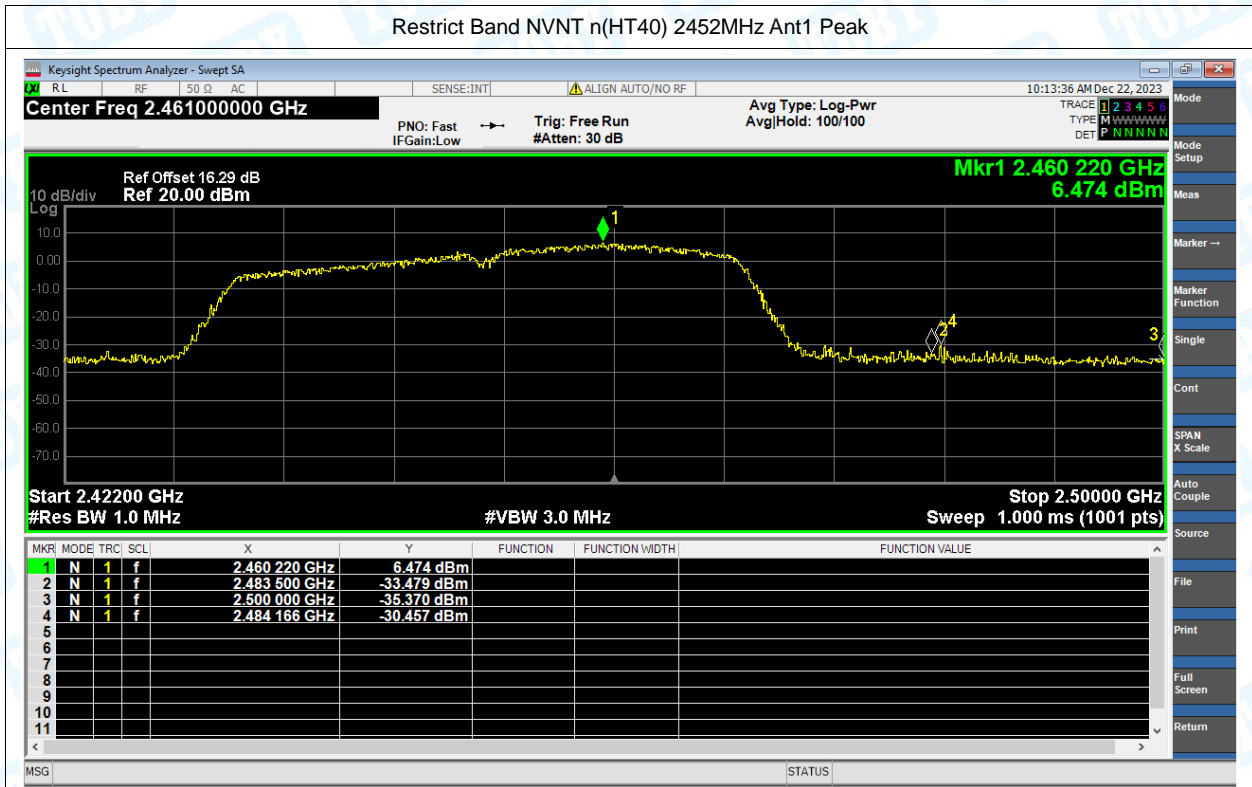


Restrict Band NVNT n(HT40) 2422MHz Ant1 Peak



Restrict Band NVNT n(HT40) 2422MHz Ant1 Average





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