

RF Test Data for 2.4G WiFi (Conducted Measurements)

General Description of EUT	
Product Name:	Kids Tablet
Test Model:	AT70K
Sample ID:	RW-C-202312-0324-7-2#
Environmental Conditions	
Temperature:	25℃
Relative Humidity:	55%
Test Voltage:	DC 3.85V
Test Engineer:	Li ying jing
Note: For a more detailed features description, please refer to the report TBR-C-202312-0324-22 The report only show the worst case data.	

Contents

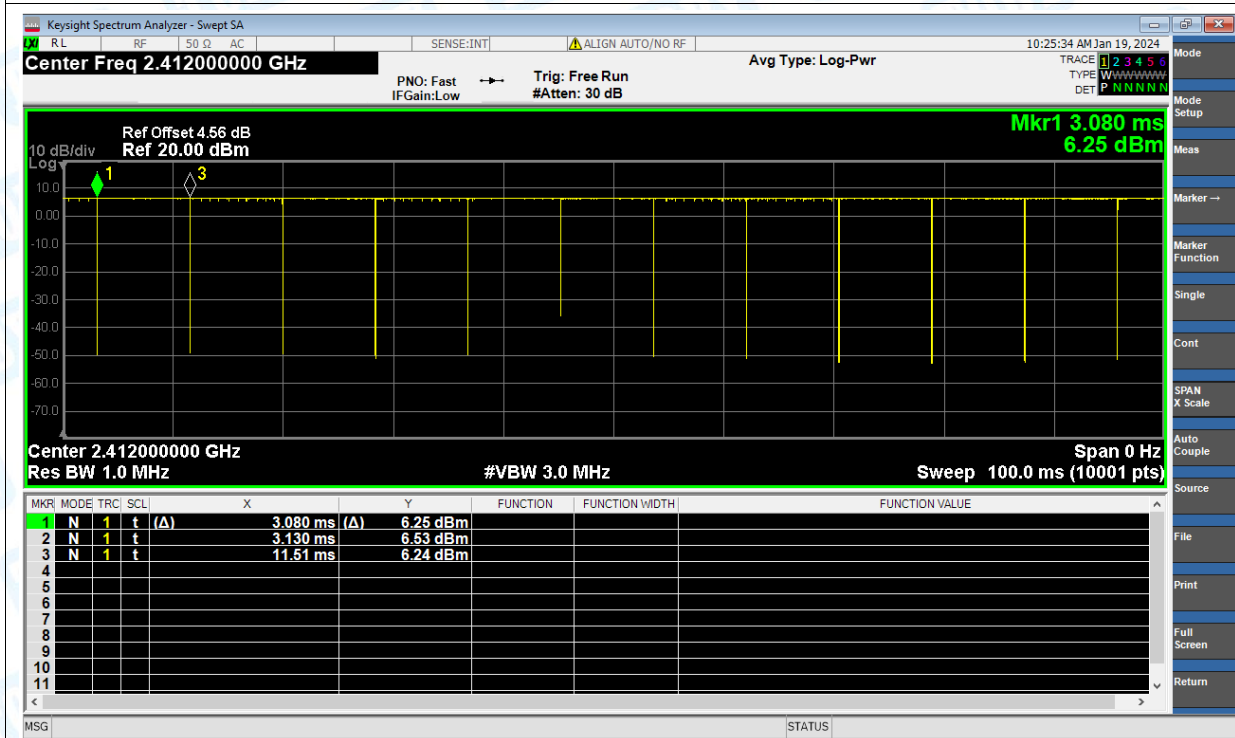
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1. Duty Cycle

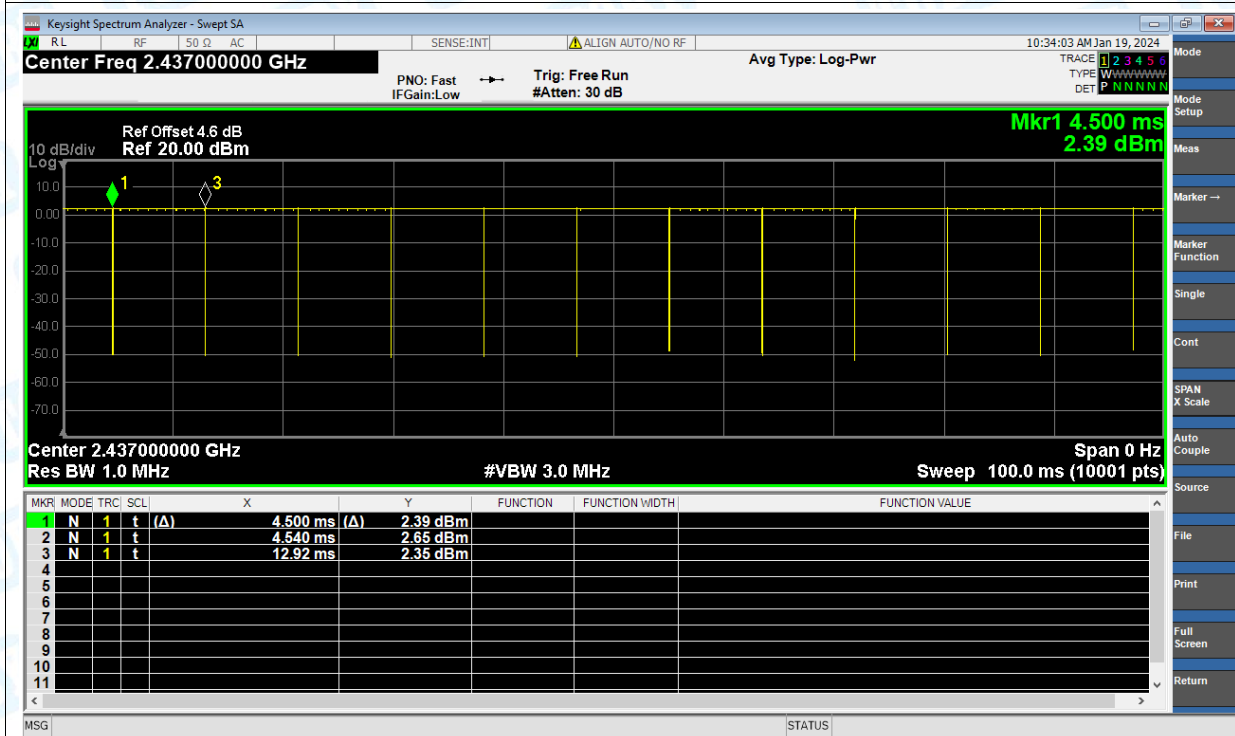
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.41	0.03	0.12
NVNT	b	2437	Ant1	99.52	0.02	0.12
NVNT	b	2462	Ant1	99.53	0.02	0.12
NVNT	g	2412	Ant1	97.2	0.12	0.72
NVNT	g	2437	Ant1	97.2	0.12	0.72
NVNT	g	2462	Ant1	97.9	0.09	0.71
NVNT	n(HT20)	2412	Ant1	98.48	0.07	0.52
NVNT	n(HT20)	2437	Ant1	97.97	0.09	0.52
NVNT	n(HT20)	2462	Ant1	97.98	0.09	0.52

Test Graphs

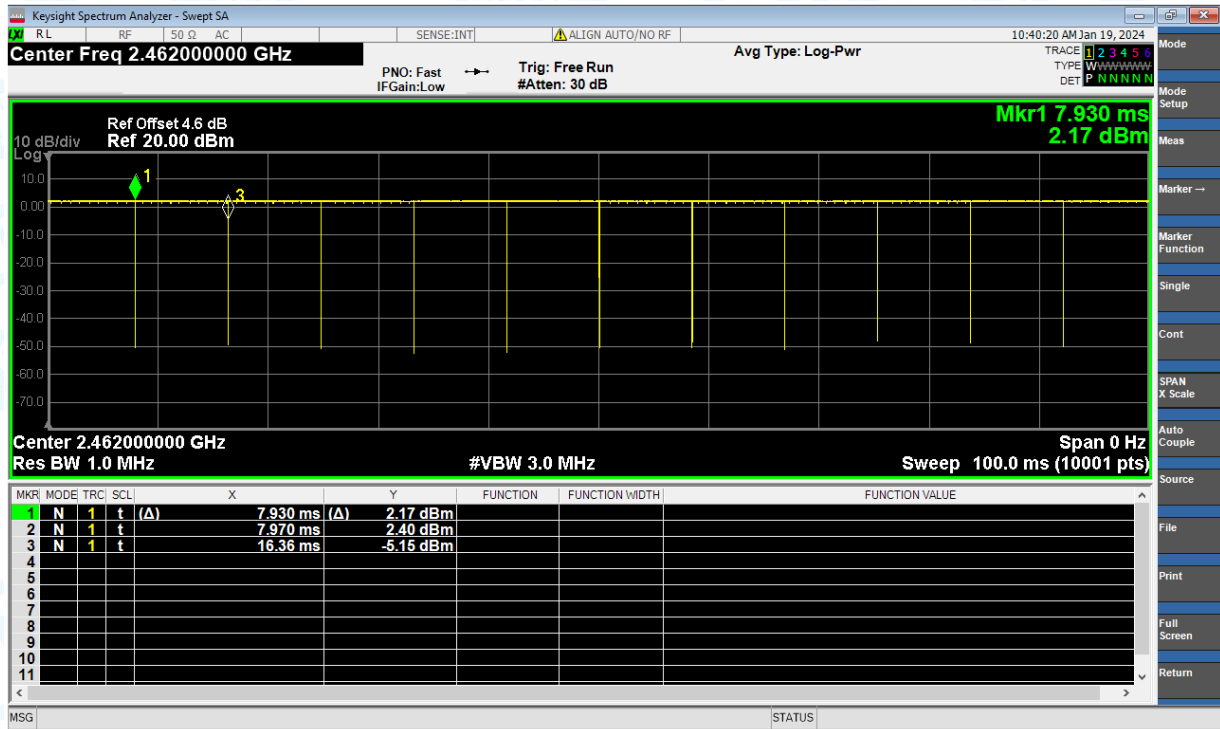
Duty Cycle NVNT b 2412MHz Ant1



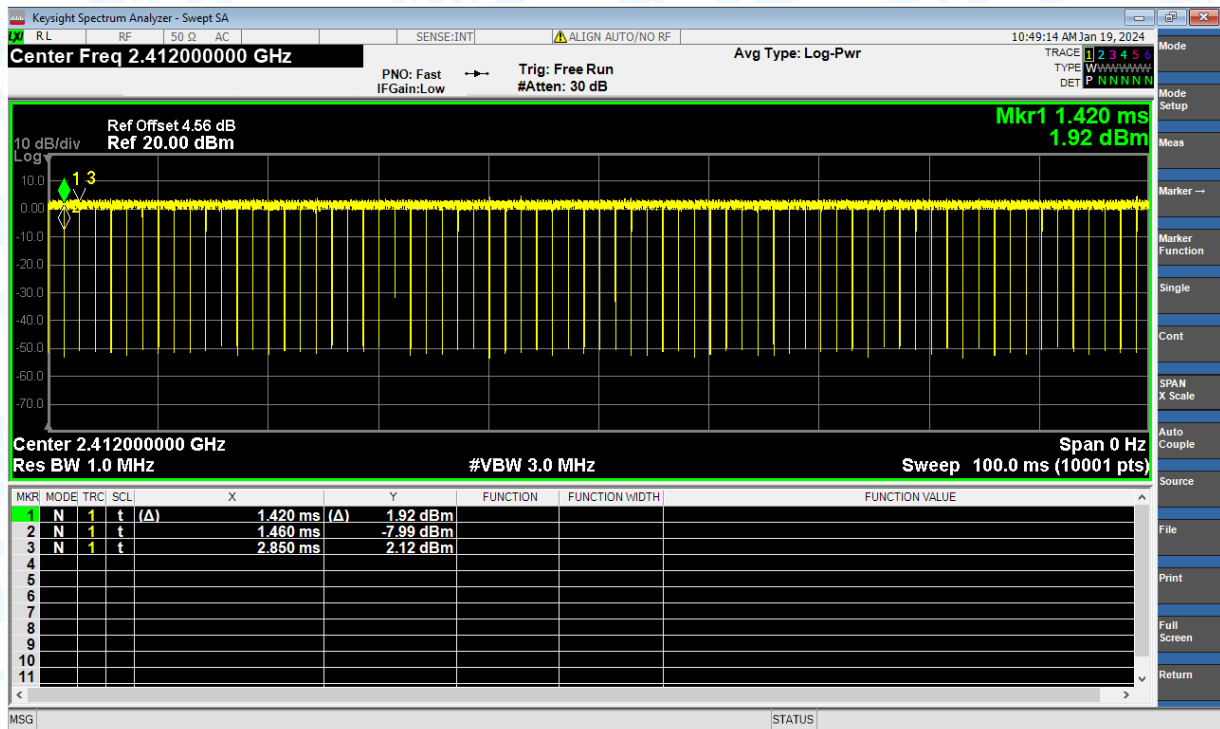
Duty Cycle NVNT b 2437MHz Ant1



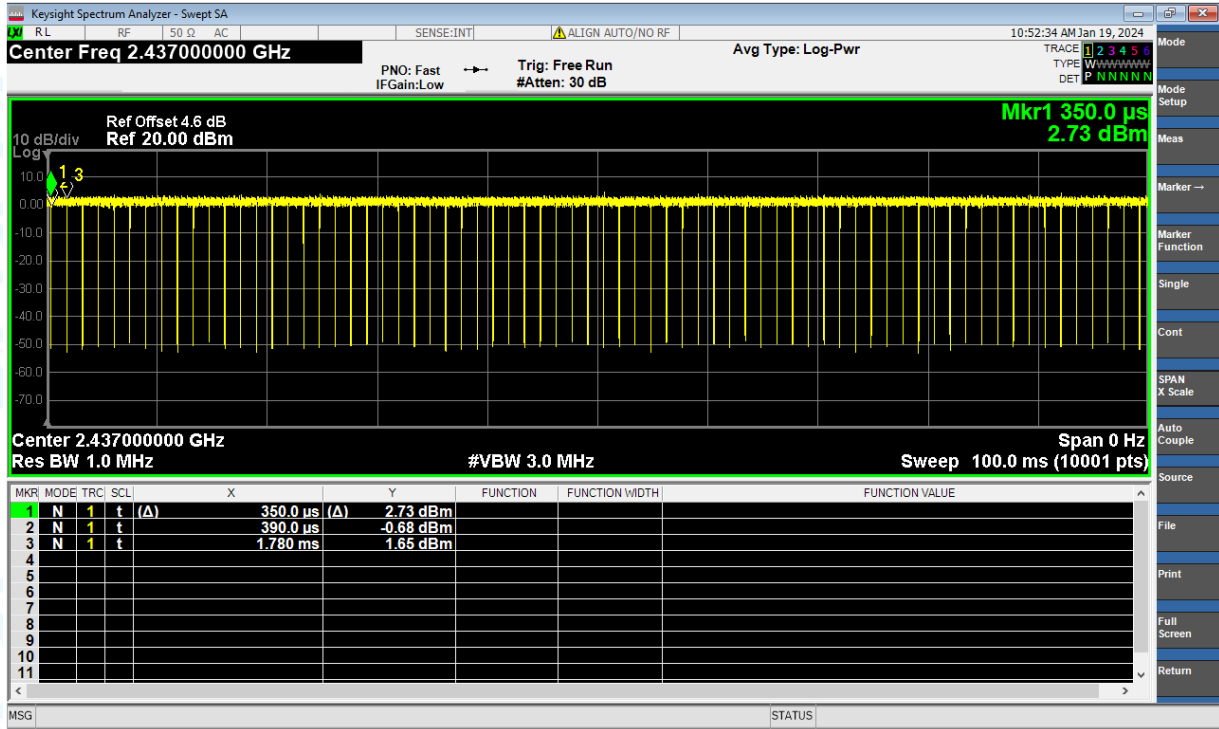
Duty Cycle NVNT b 2462MHz Ant1



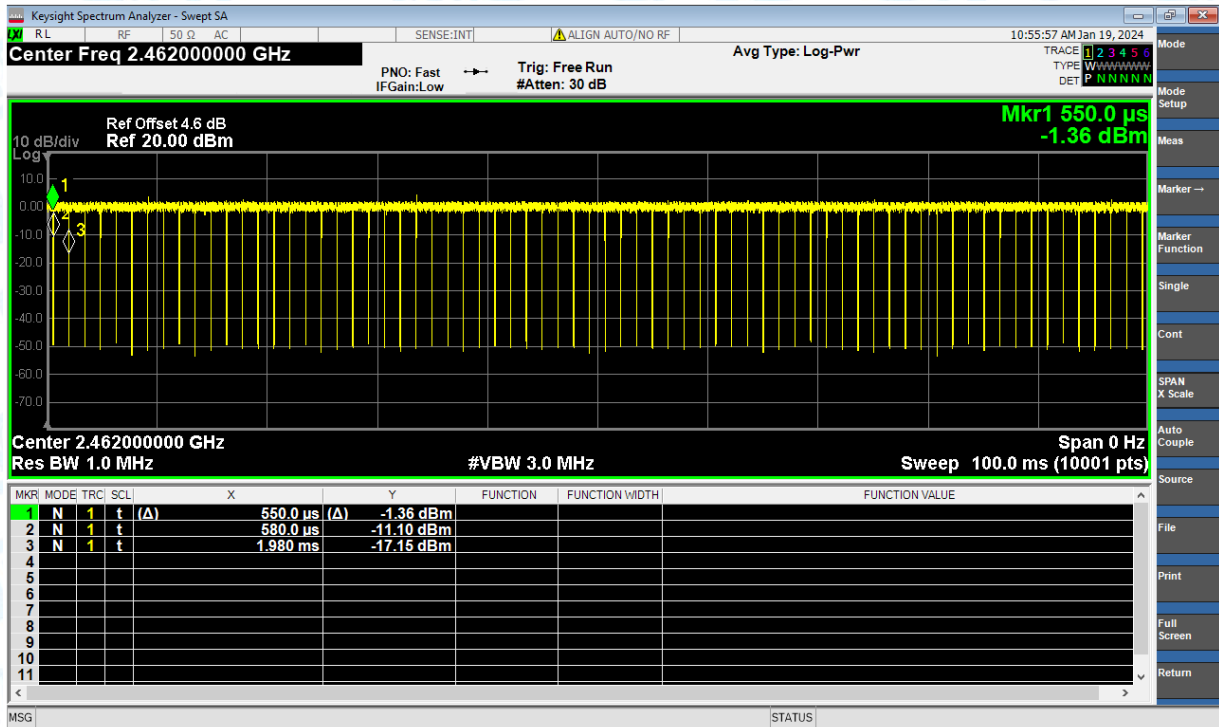
Duty Cycle NVNT g 2412MHz Ant1



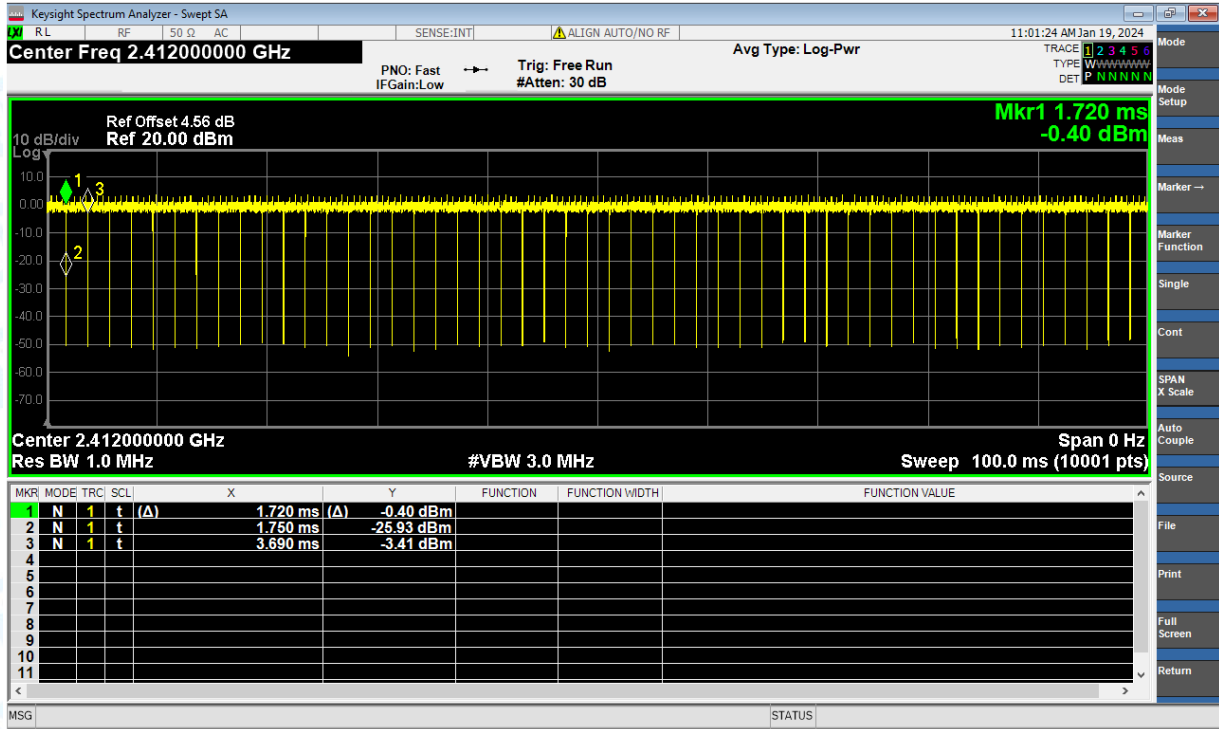
Duty Cycle NVNT g 2437MHz Ant1



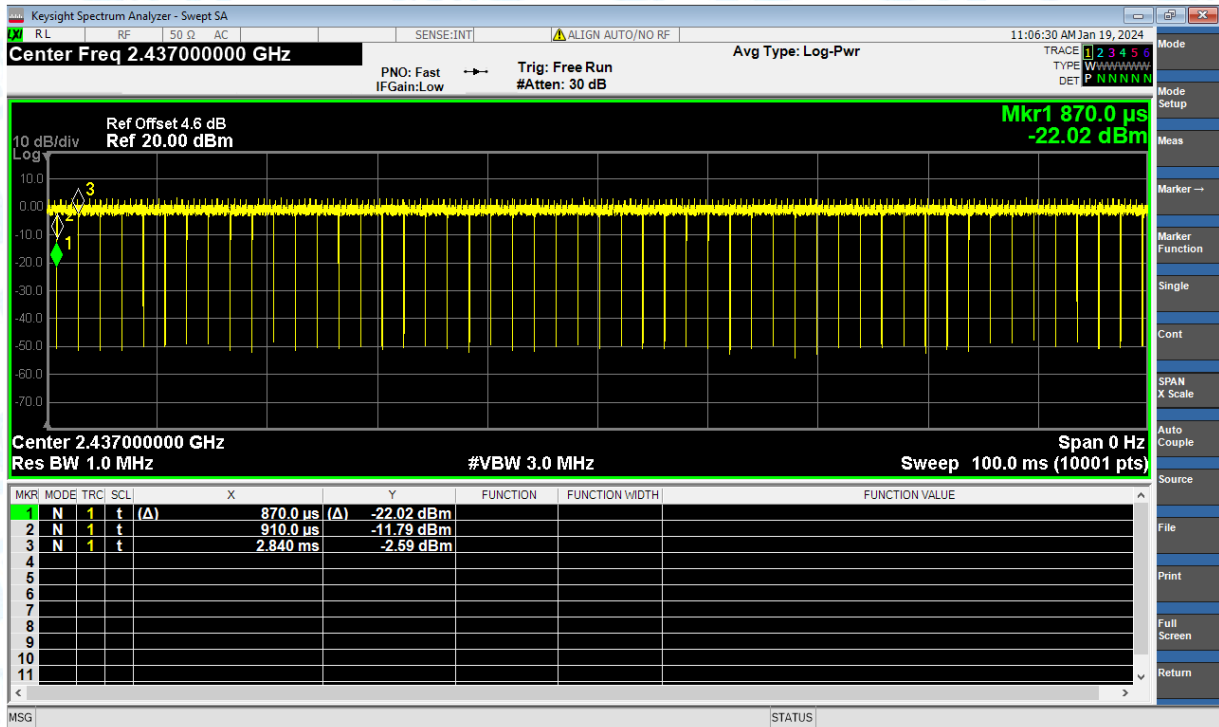
Duty Cycle NVNT g 2462MHz Ant1

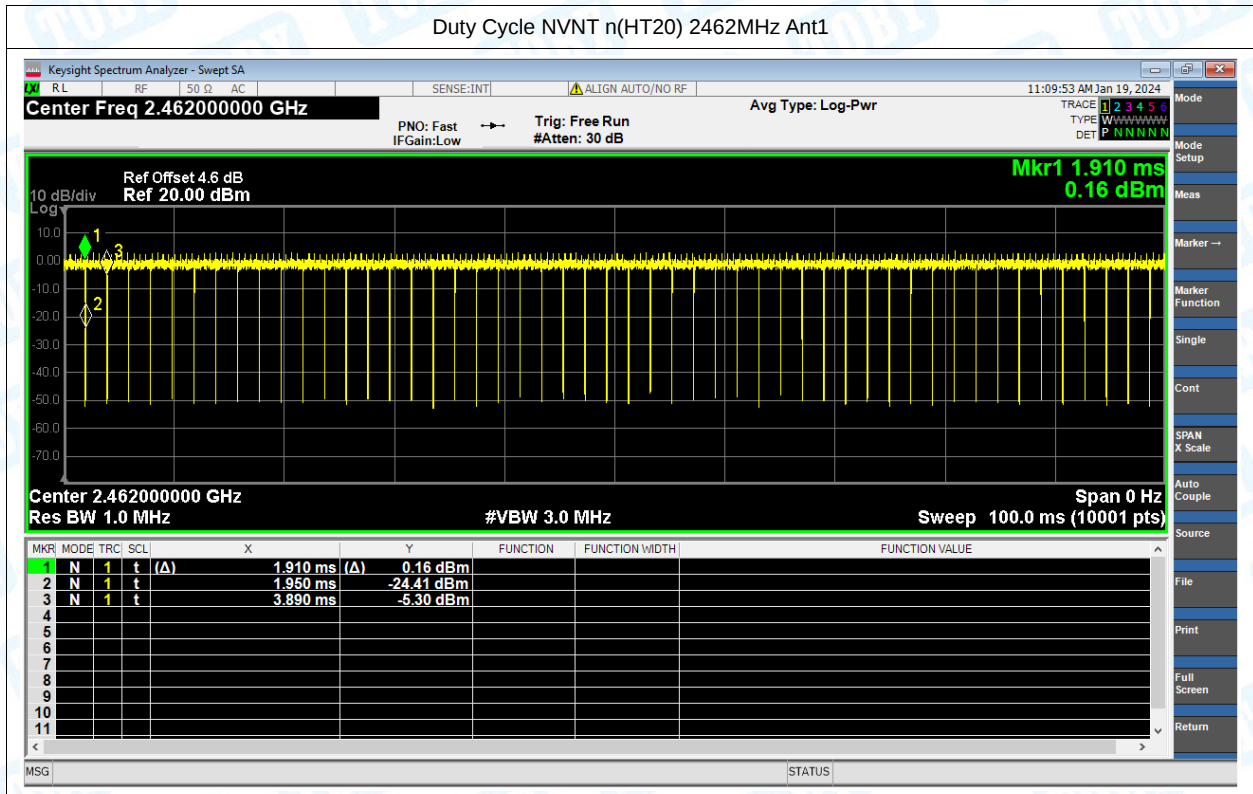


Duty Cycle NVNT n(HT20) 2412MHz Ant1



Duty Cycle NVNT n(HT20) 2437MHz Ant1





2. Maximum Conducted Output Power

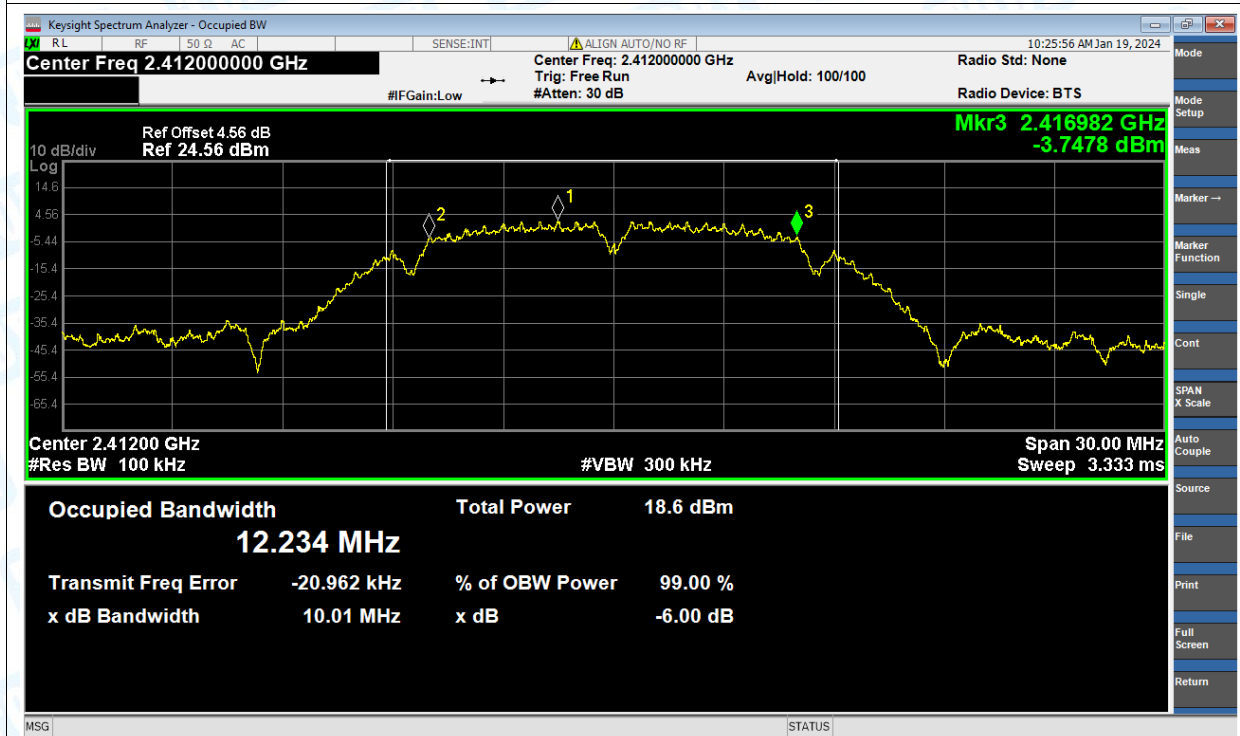
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	8.928	0.03	8.958	30	Pass
NVNT	b	2437	Ant1	8.28	0.02	8.3	30	Pass
NVNT	b	2462	Ant1	8.037	0.02	8.057	30	Pass
NVNT	g	2412	Ant1	8.874	0.12	8.994	30	Pass
NVNT	g	2437	Ant1	8.609	0.12	8.729	30	Pass
NVNT	g	2462	Ant1	7.649	0.09	7.739	30	Pass
NVNT	n(HT20)	2412	Ant1	7.07	0.07	7.14	30	Pass
NVNT	n(HT20)	2437	Ant1	6.66	0.09	6.75	30	Pass
NVNT	n(HT20)	2462	Ant1	6.289	0.09	6.379	30	Pass

3. -6dB Bandwidth

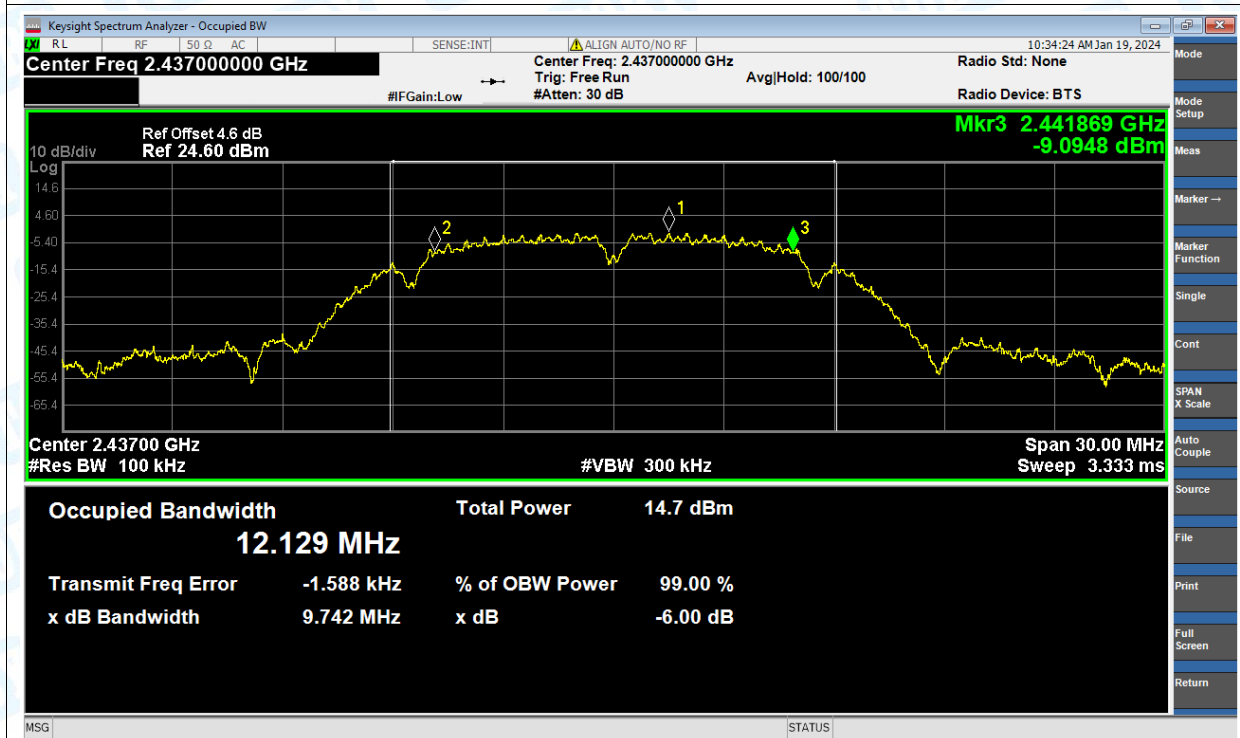
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	10.01	0.5	Pass
NVNT	b	2437	Ant1	9.74	0.5	Pass
NVNT	b	2462	Ant1	10.01	0.5	Pass
NVNT	g	2412	Ant1	16.35	0.5	Pass
NVNT	g	2437	Ant1	16.35	0.5	Pass
NVNT	g	2462	Ant1	16.35	0.5	Pass
NVNT	n(HT20)	2412	Ant1	17.61	0.5	Pass
NVNT	n(HT20)	2437	Ant1	17.56	0.5	Pass
NVNT	n(HT20)	2462	Ant1	17.6	0.5	Pass

Test Graphs

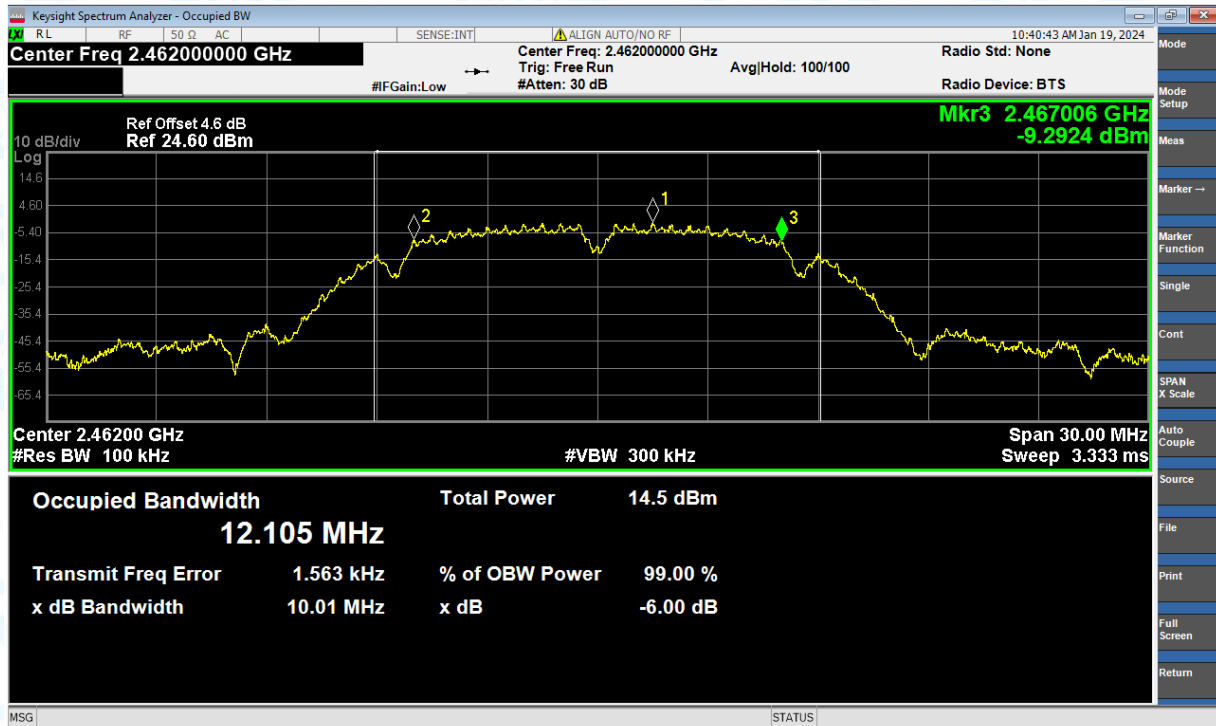
-6dB Bandwidth NVNT b 2412MHz Ant1



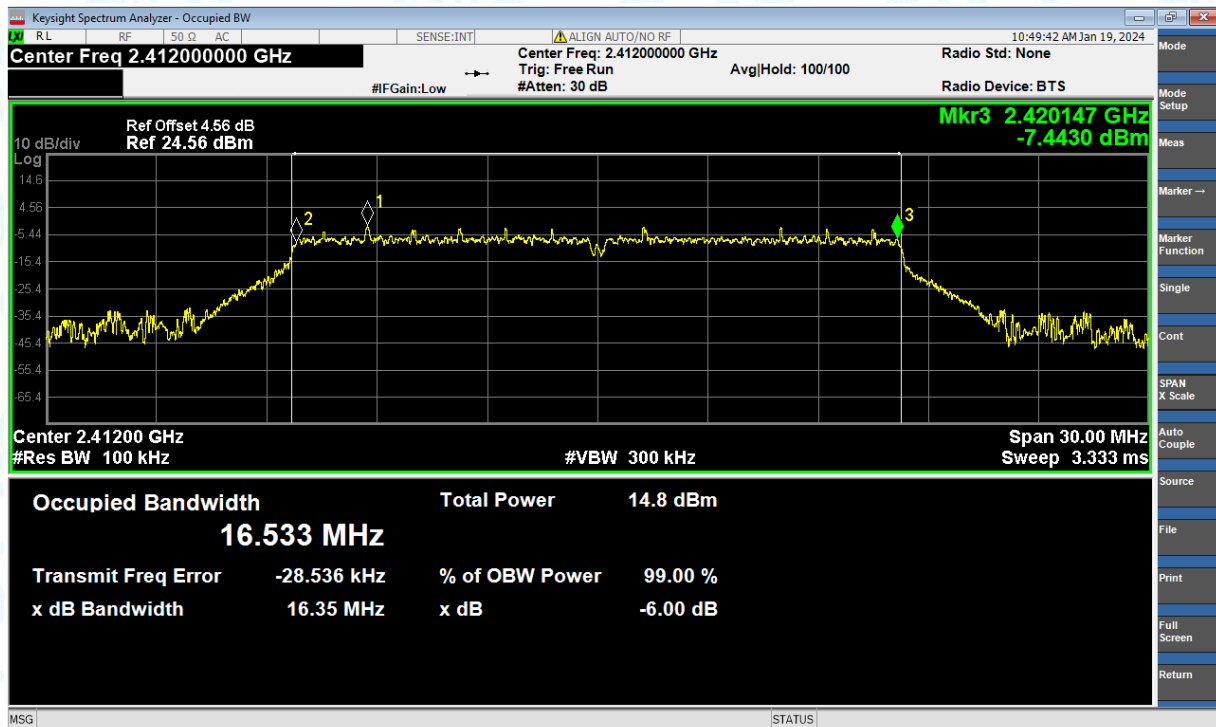
-6dB Bandwidth NVNT b 2437MHz Ant1



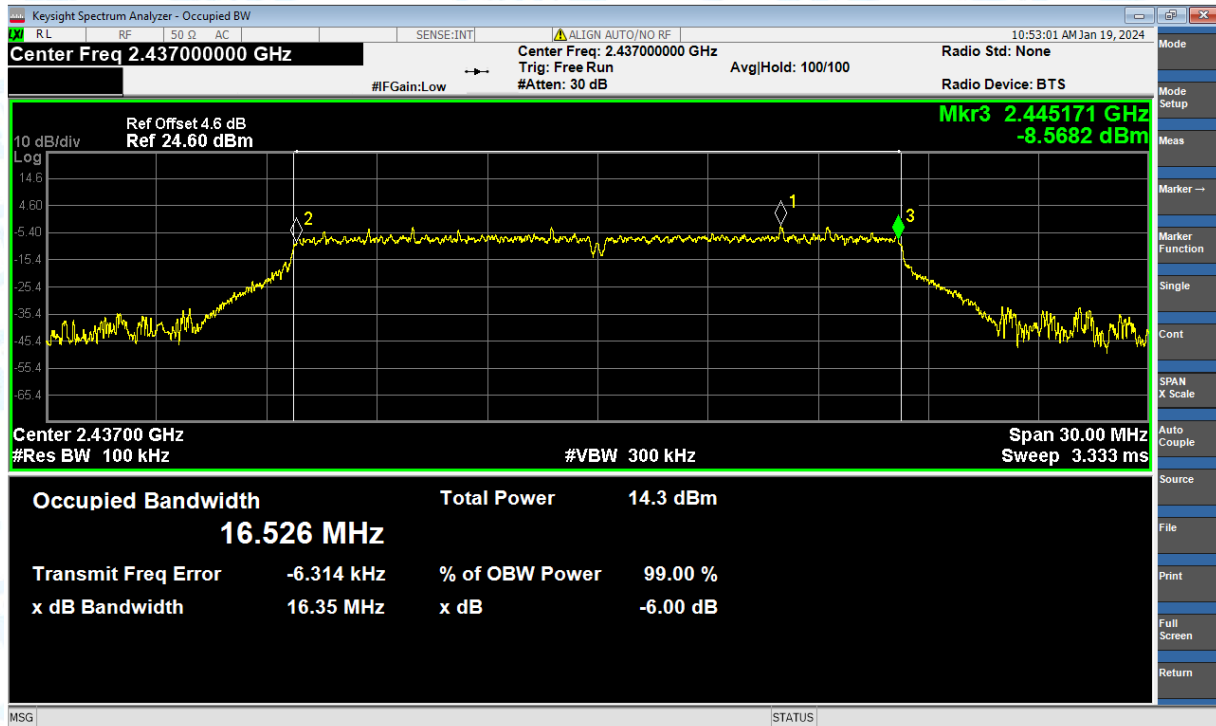
-6dB Bandwidth NVNT b 2462MHz Ant1



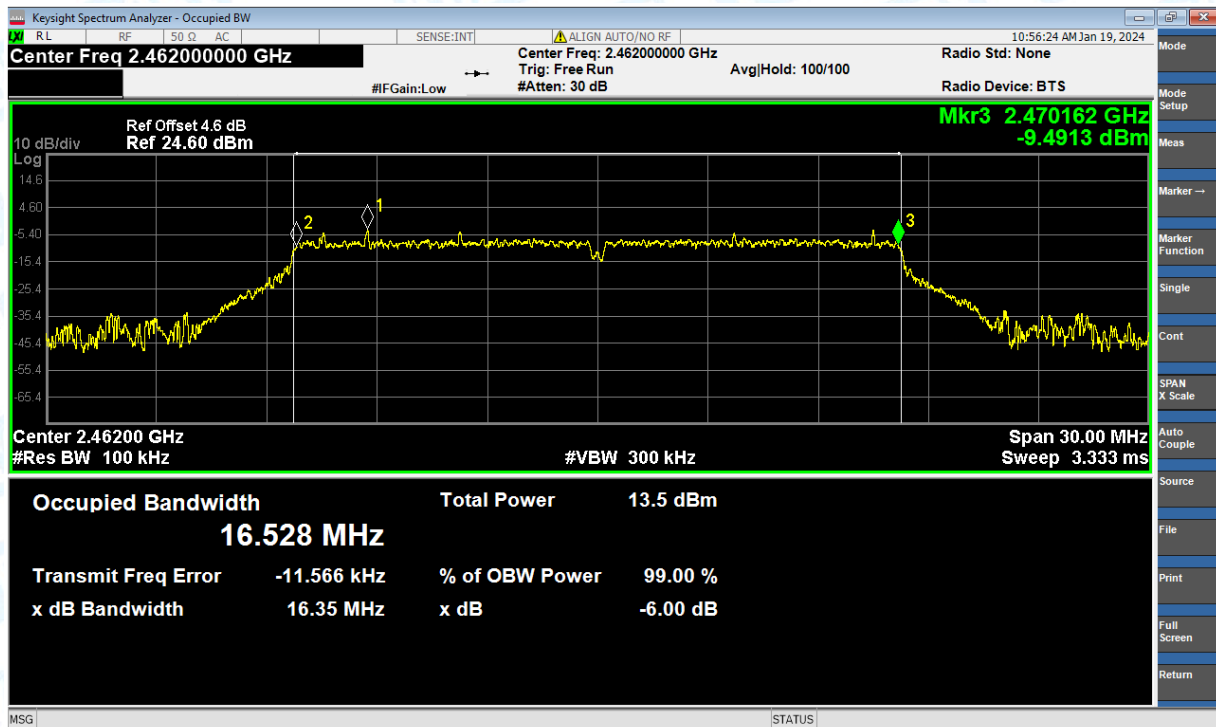
-6dB Bandwidth NVNT g 2412MHz Ant1



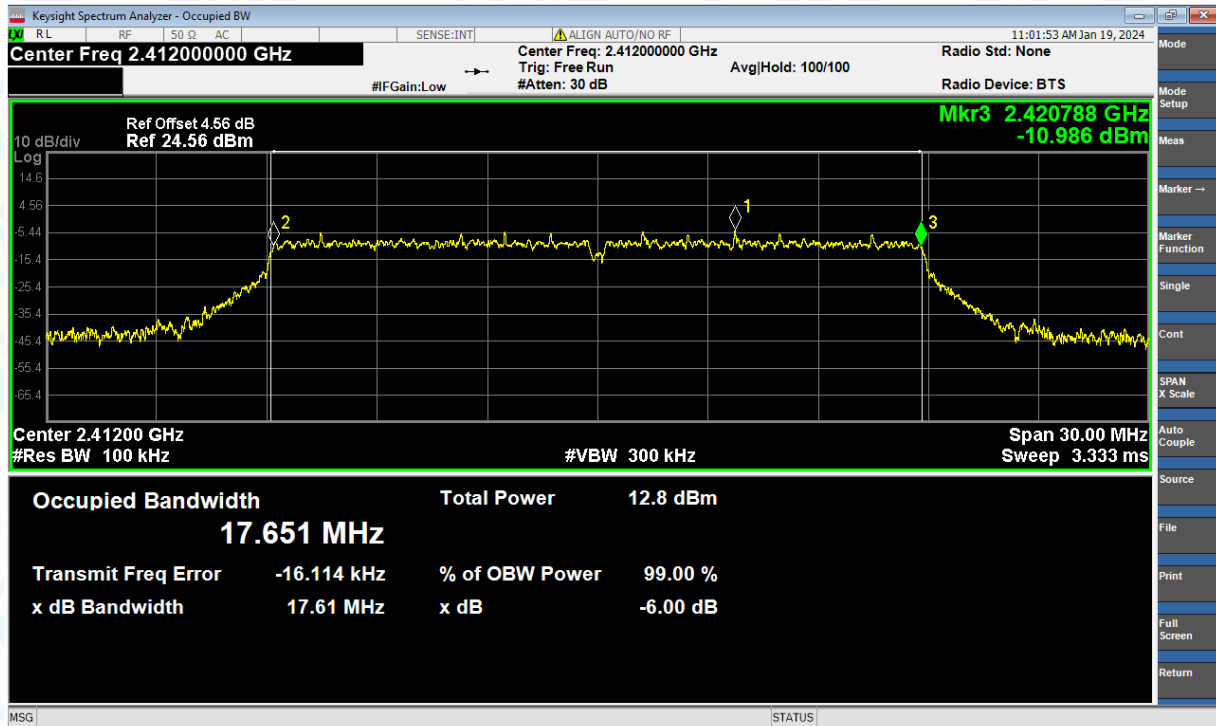
-6dB Bandwidth NVNT g 2437MHz Ant1



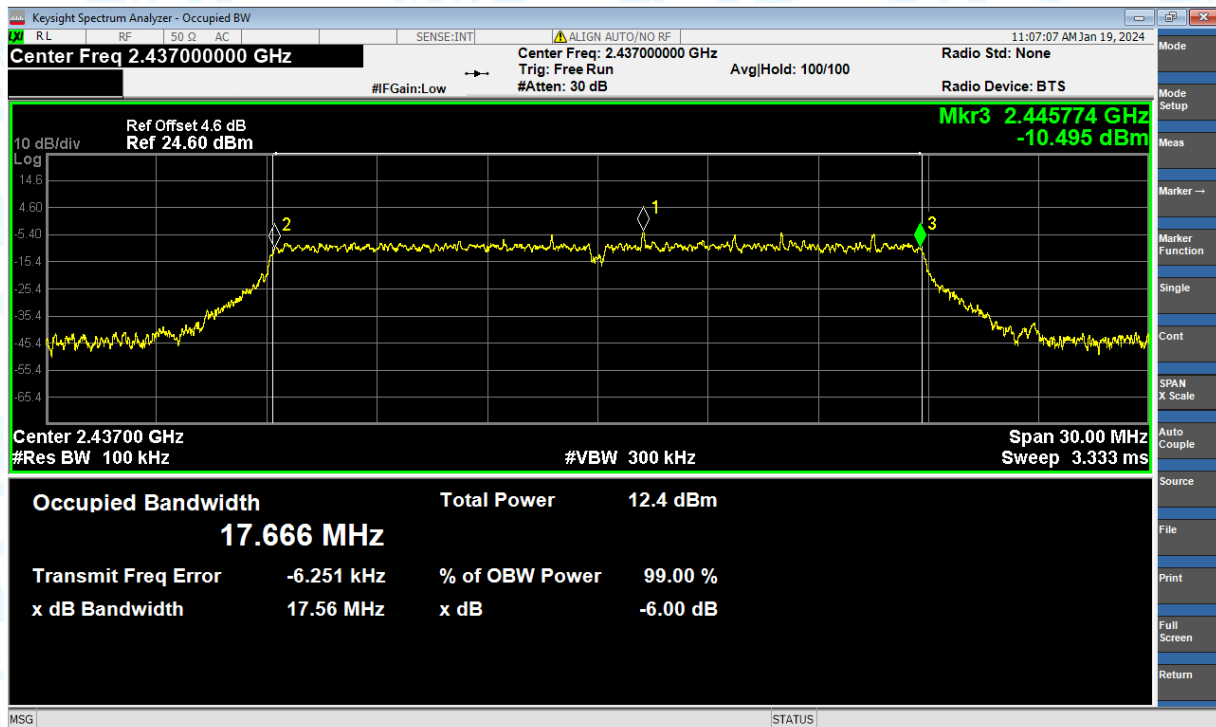
-6dB Bandwidth NVNT g 2462MHz Ant1

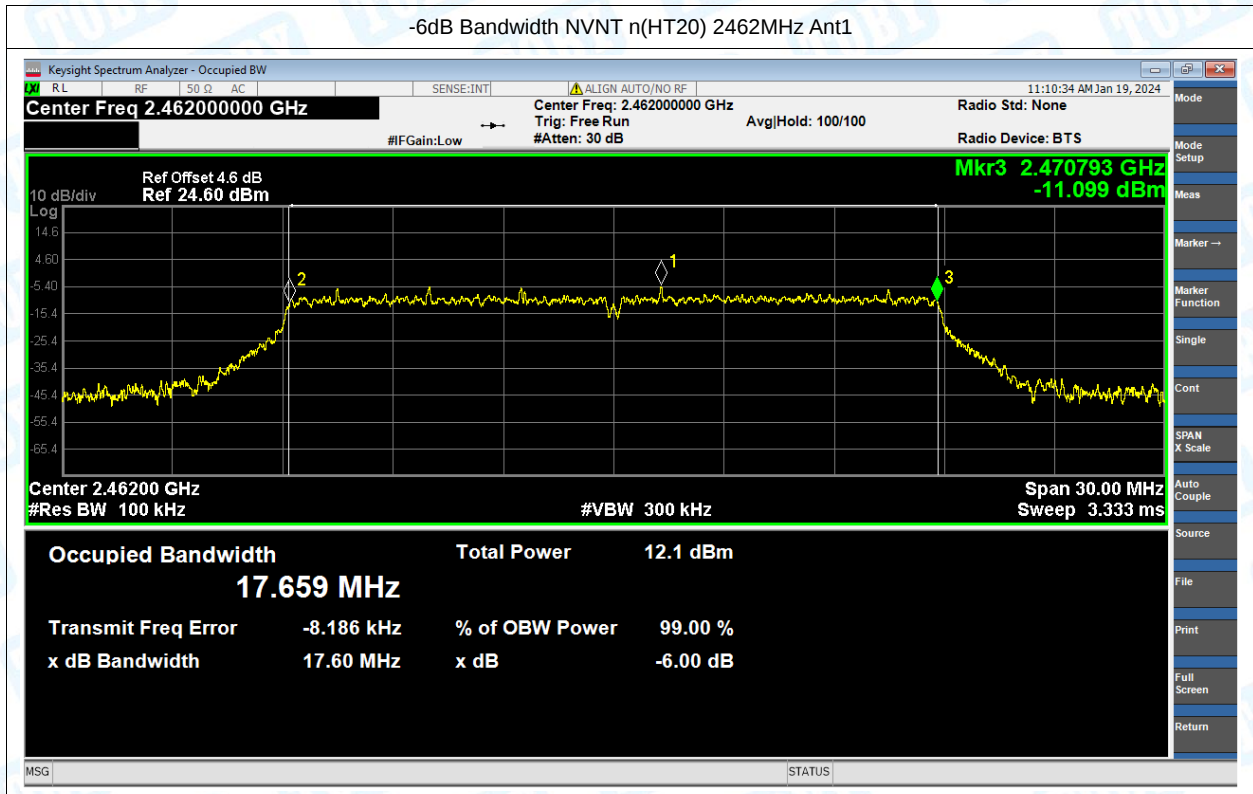


-6dB Bandwidth NVNT n(HT20) 2412MHz Ant1



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



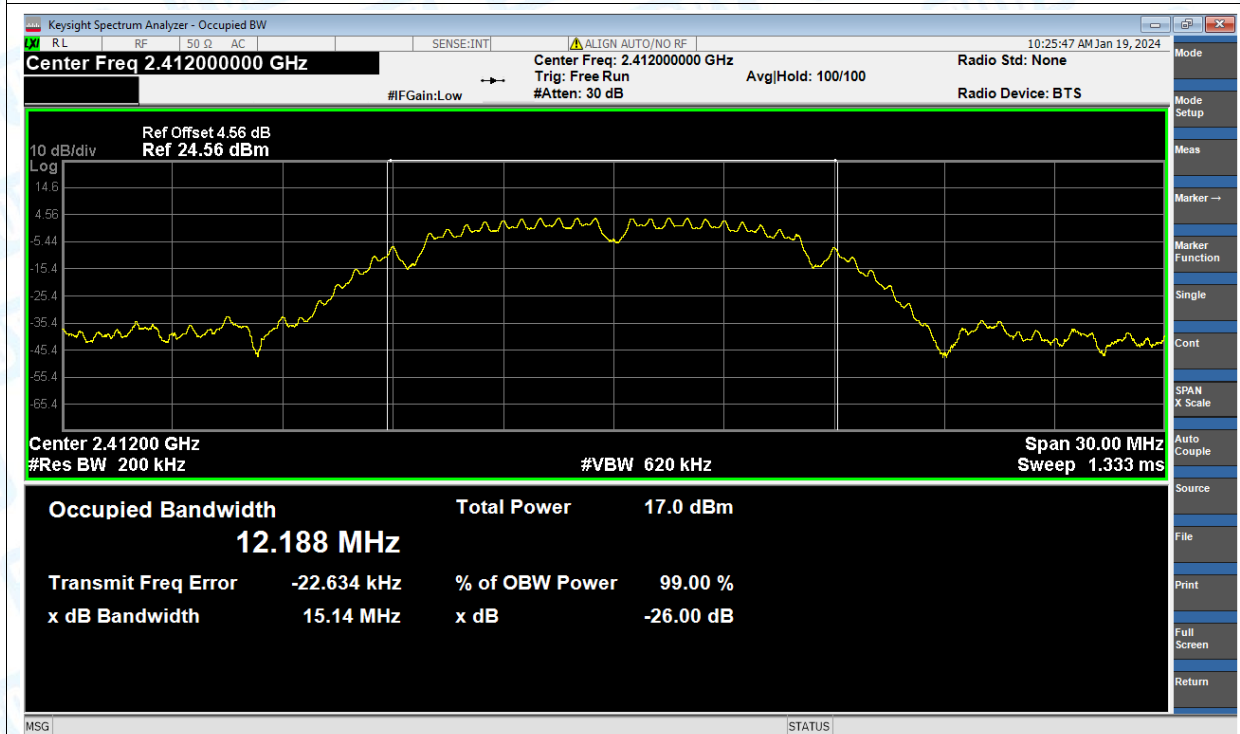


4. Occupied Channel Bandwidth

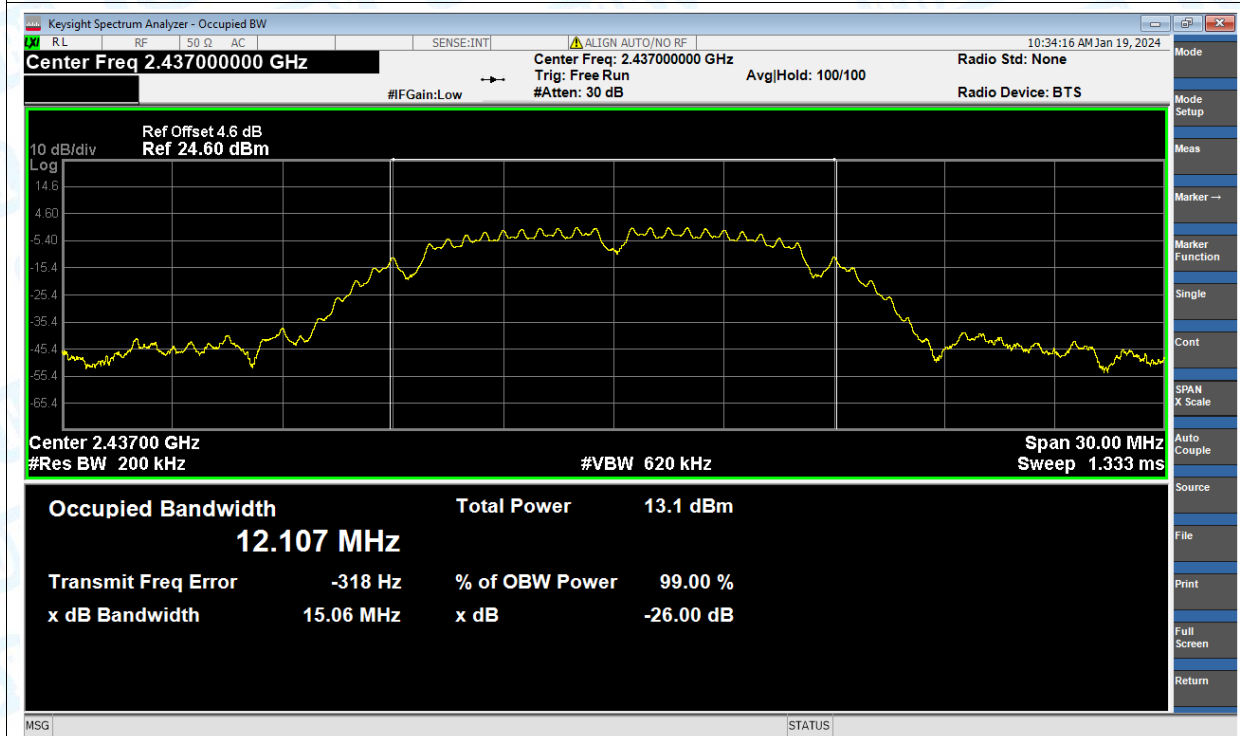
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	12.188
NVNT	b	2437	Ant1	12.107
NVNT	b	2462	Ant1	12.084
NVNT	g	2412	Ant1	16.723
NVNT	g	2437	Ant1	16.725
NVNT	g	2462	Ant1	16.761
NVNT	n(HT20)	2412	Ant1	17.754
NVNT	n(HT20)	2437	Ant1	17.758
NVNT	n(HT20)	2462	Ant1	17.755

Test Graphs

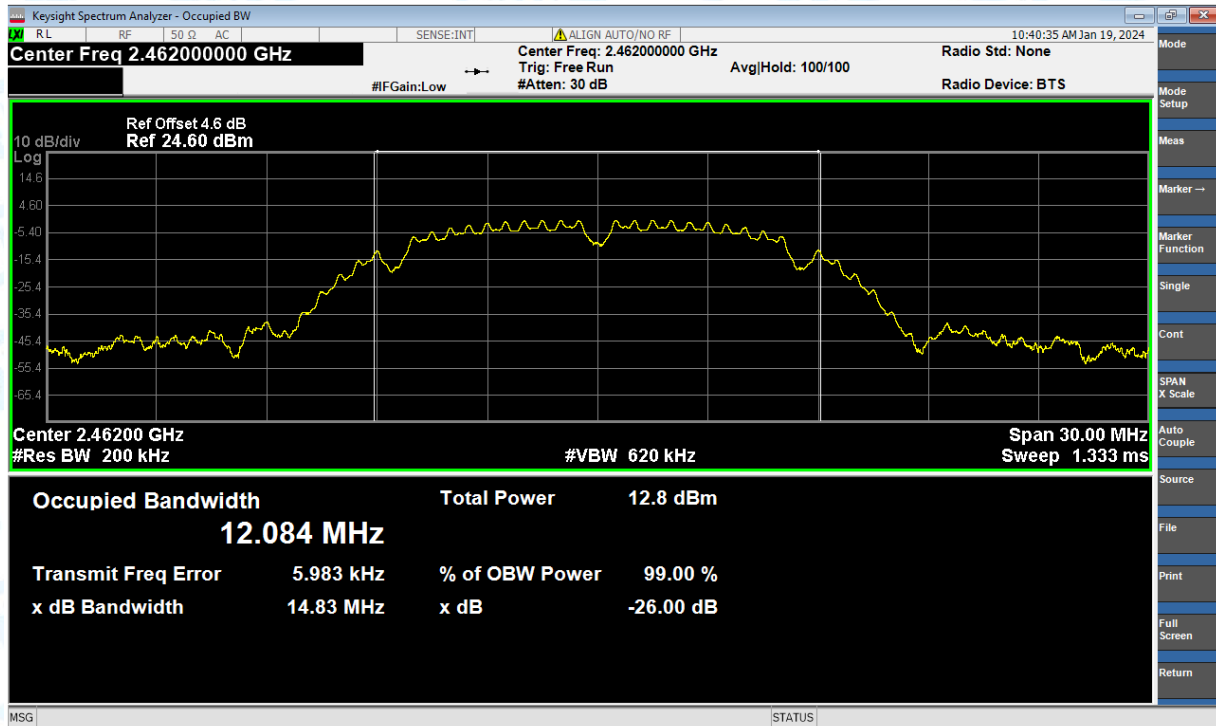
OBW NVNT b 2412MHz Ant1



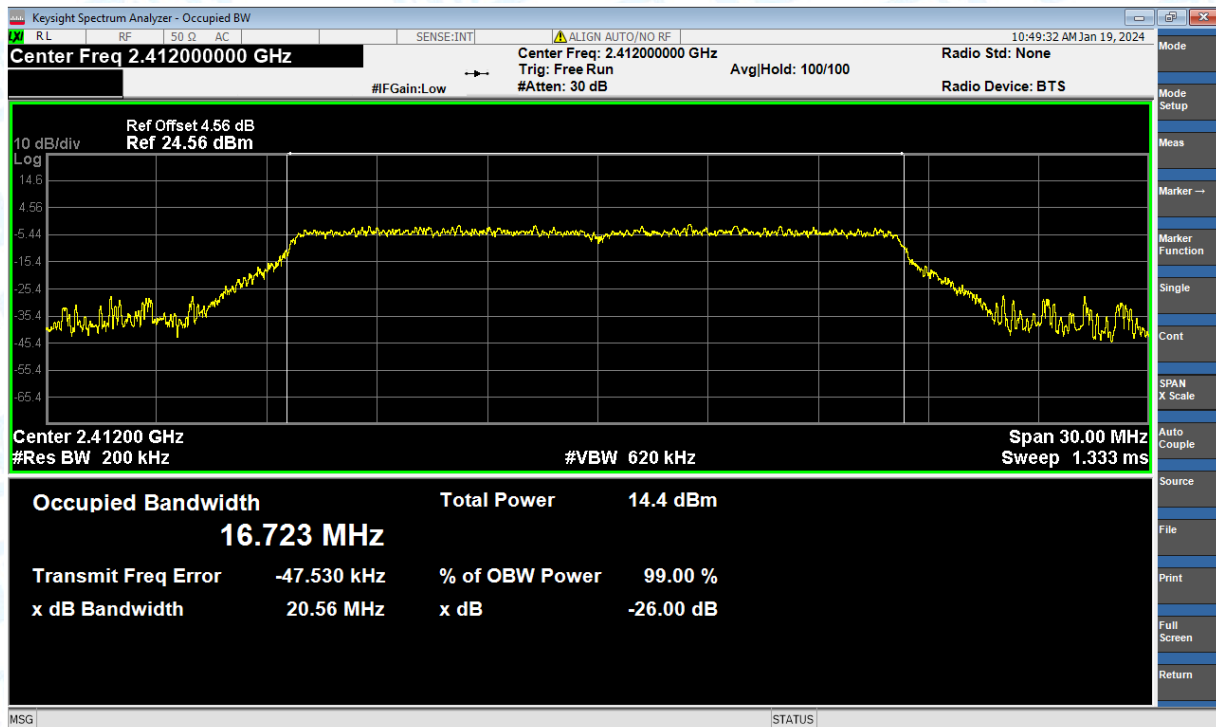
OBW NVNT b 2437MHz Ant1



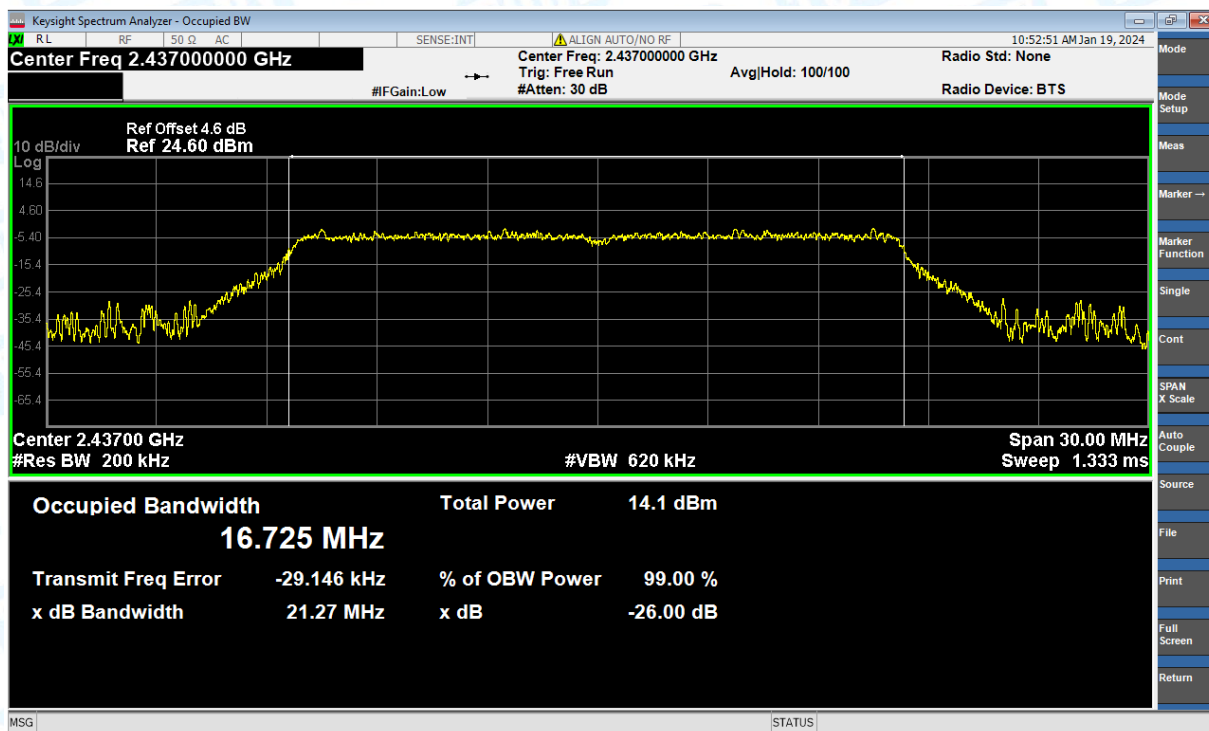
OBW NVNT b 2462MHz Ant1



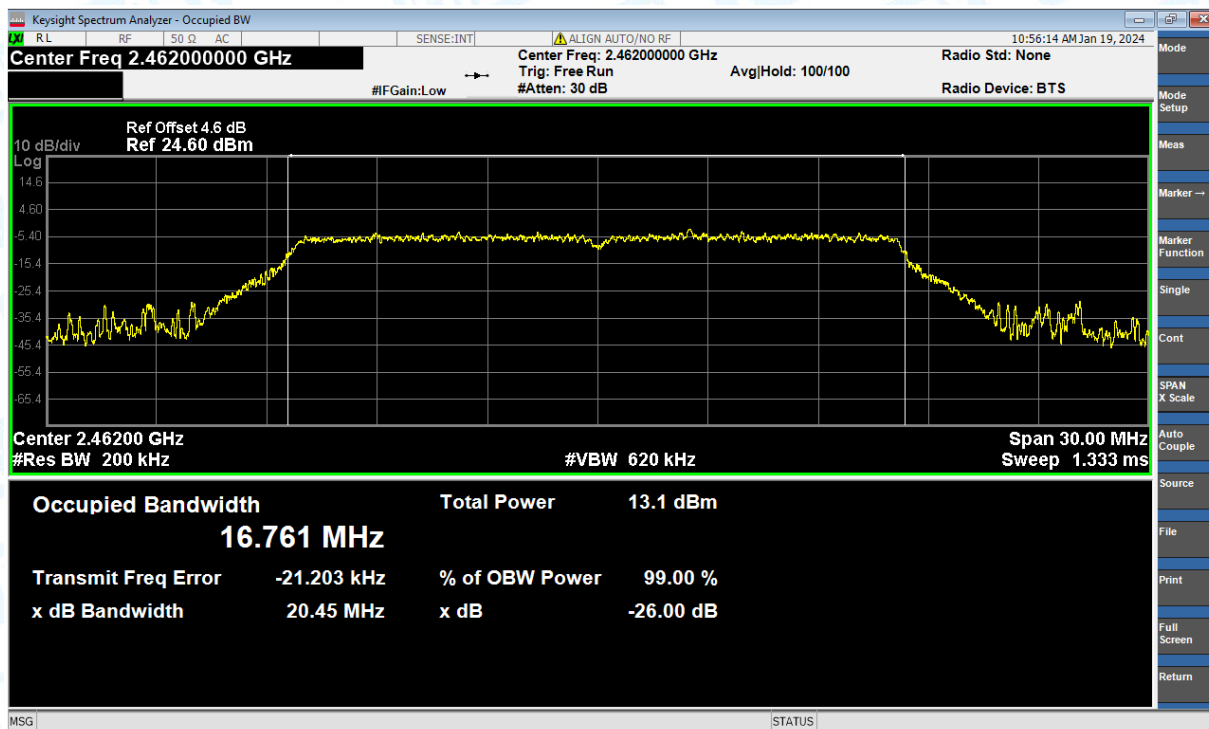
OBW NVNT g 2412MHz Ant1



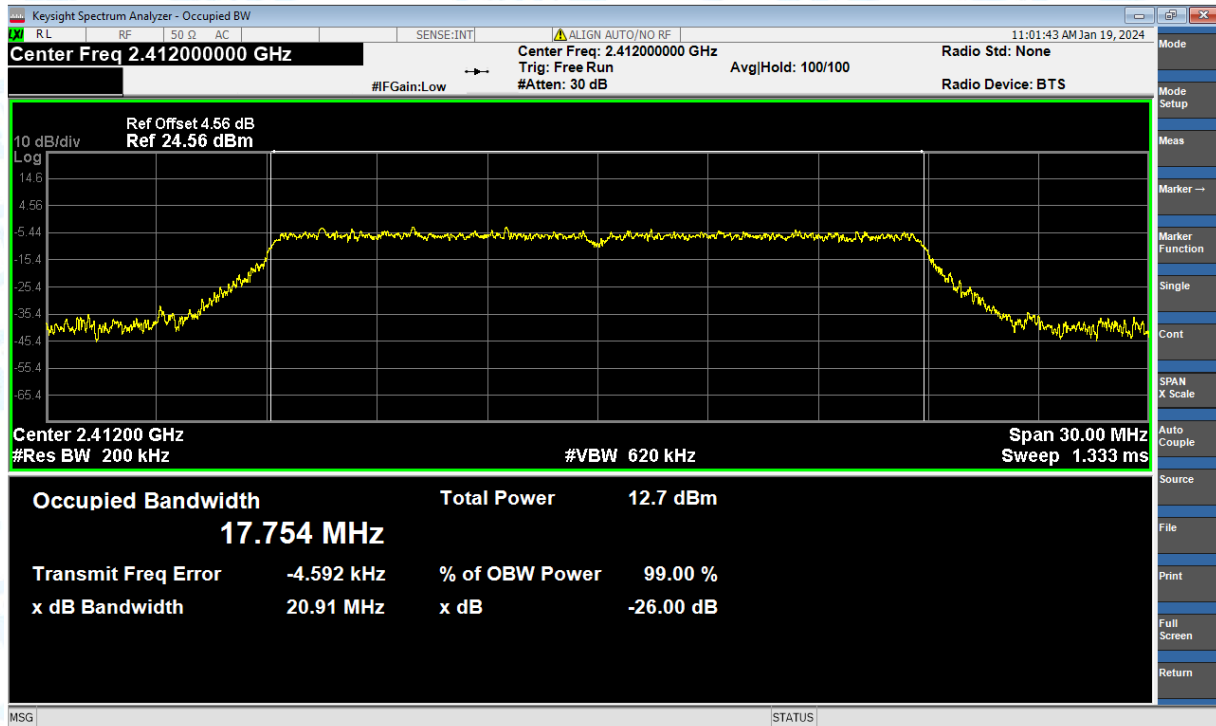
OBW NVNT g 2437MHz Ant1



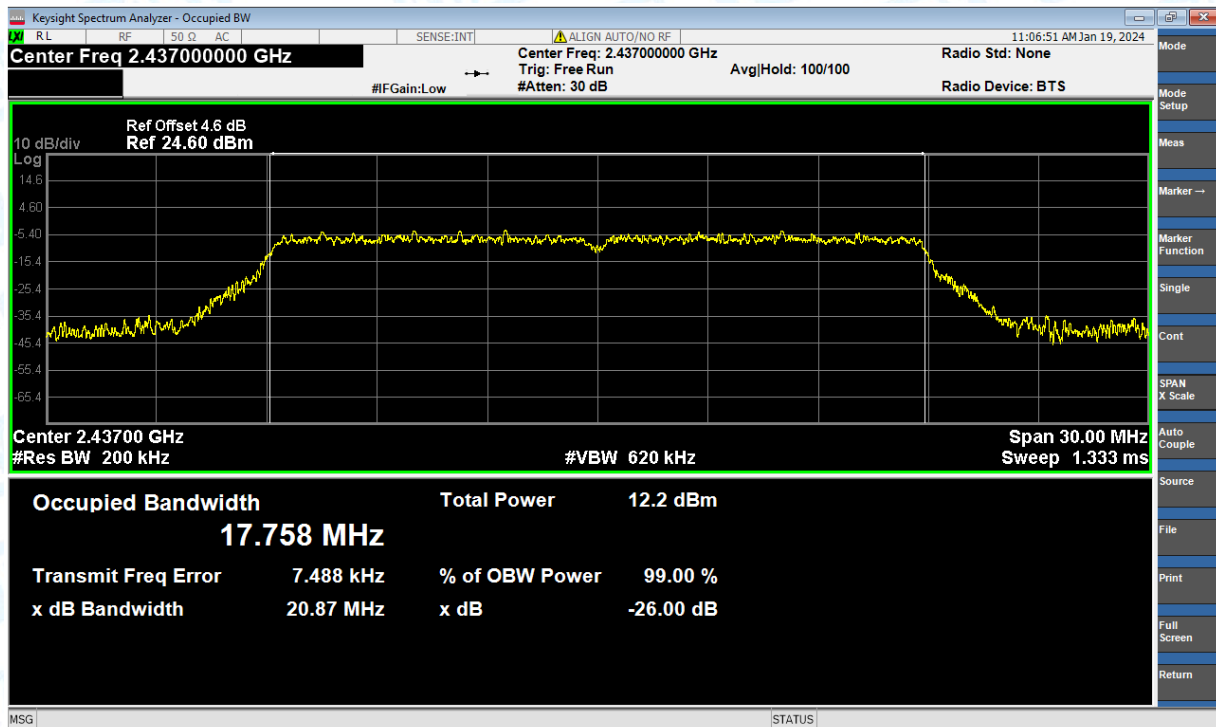
OBW NVNT g 2462MHz Ant1

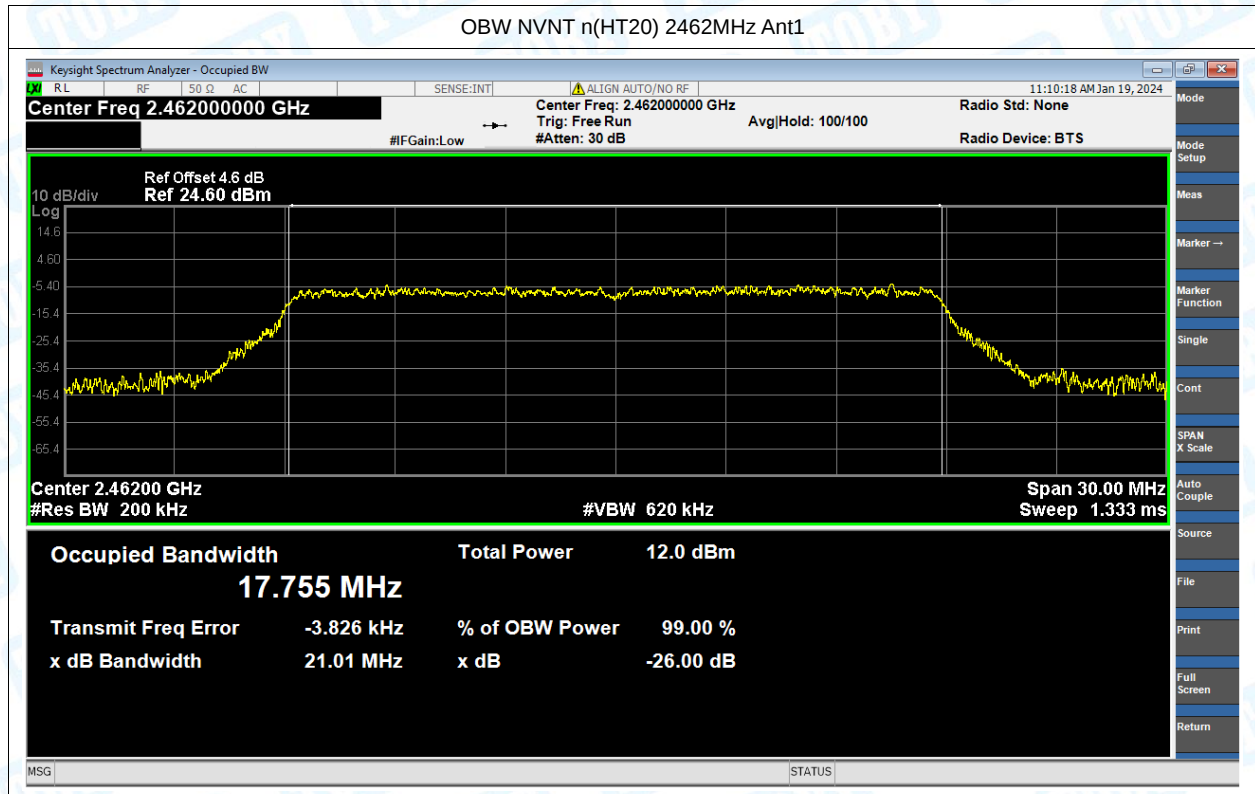


OBW NVNT n(HT20) 2412MHz Ant1



OBW NVNT n(HT20) 2437MHz Ant1



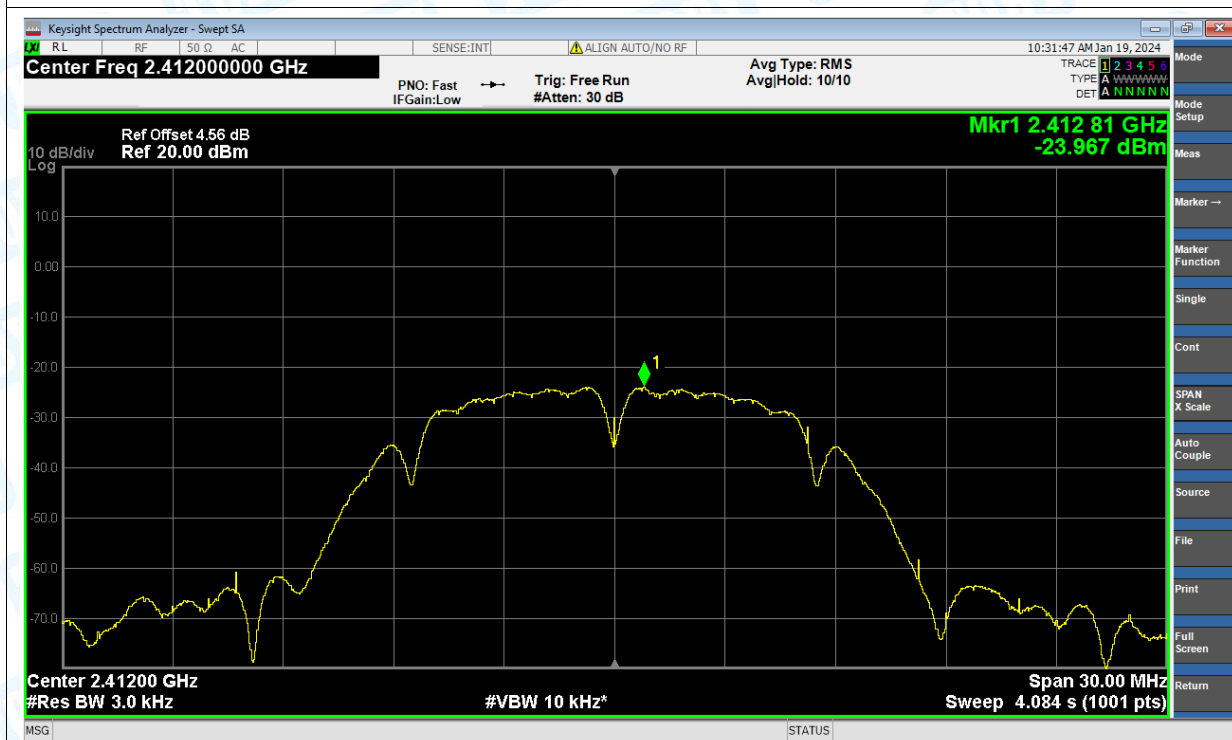


5. Maximum Power Spectral Density Level

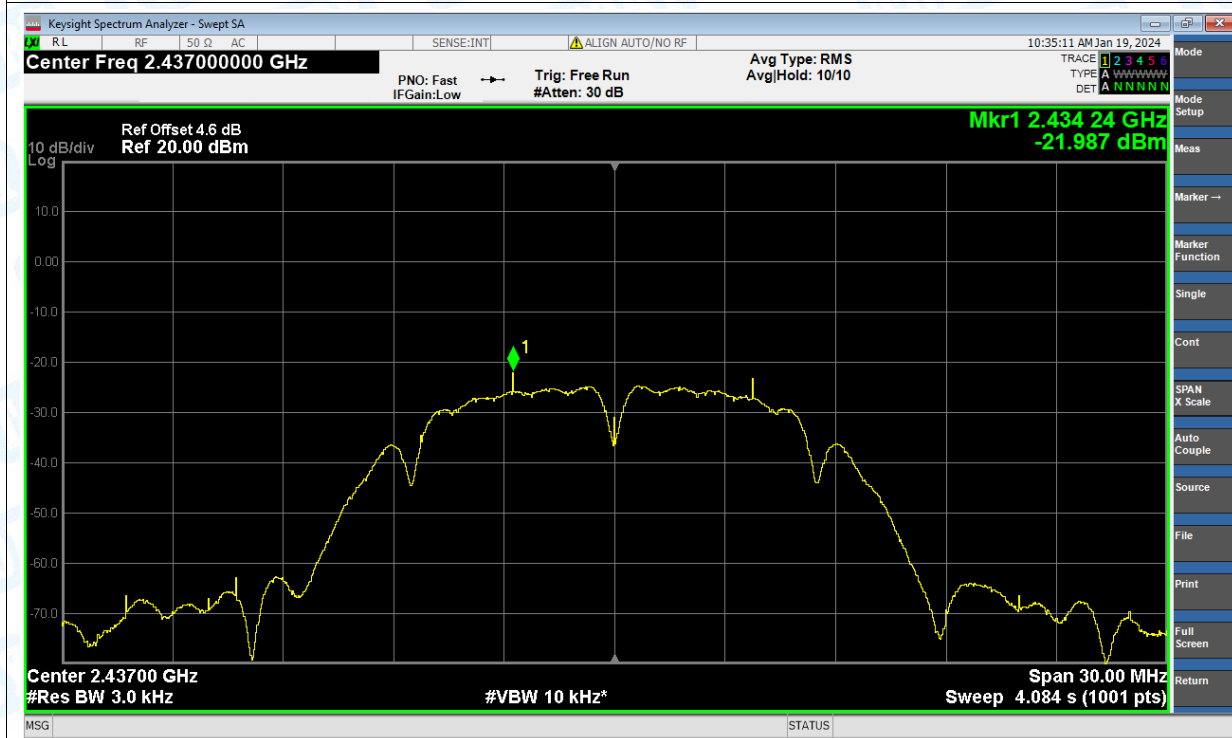
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-23.967	8	Pass
NVNT	b	2437	Ant1	-21.987	8	Pass
NVNT	b	2462	Ant1	-24.908	8	Pass
NVNT	g	2412	Ant1	-23.988	8	Pass
NVNT	g	2437	Ant1	-24.403	8	Pass
NVNT	g	2462	Ant1	-27.323	8	Pass
NVNT	n(HT20)	2412	Ant1	-28.118	8	Pass
NVNT	n(HT20)	2437	Ant1	-28.494	8	Pass
NVNT	n(HT20)	2462	Ant1	-26.698	8	Pass

Test Graphs

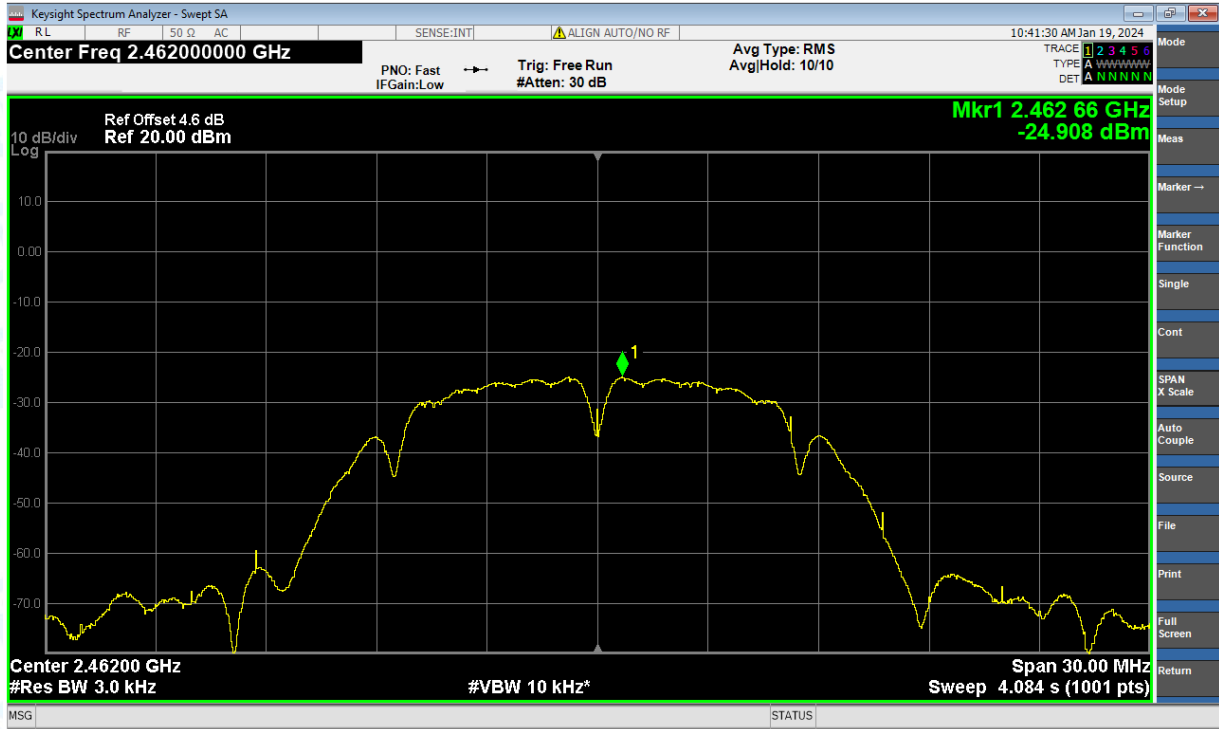
PSD NVNT b 2412MHz Ant1



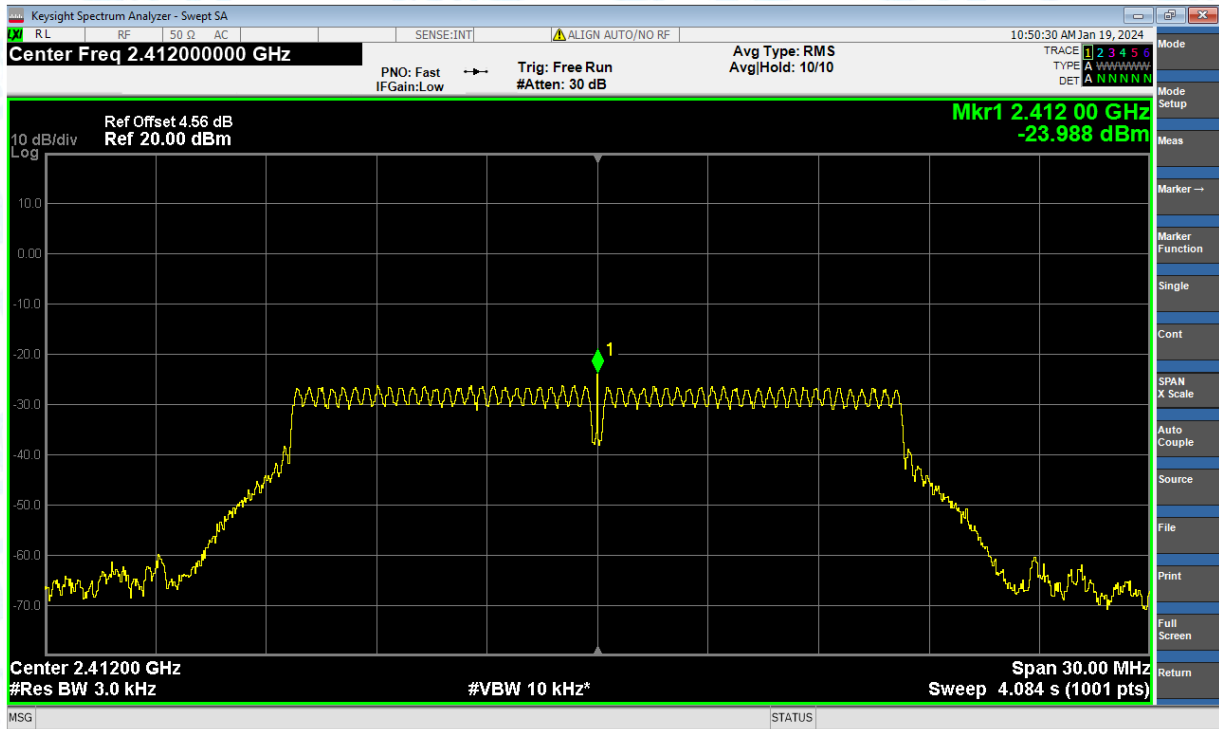
PSD NVNT b 2437MHz Ant1



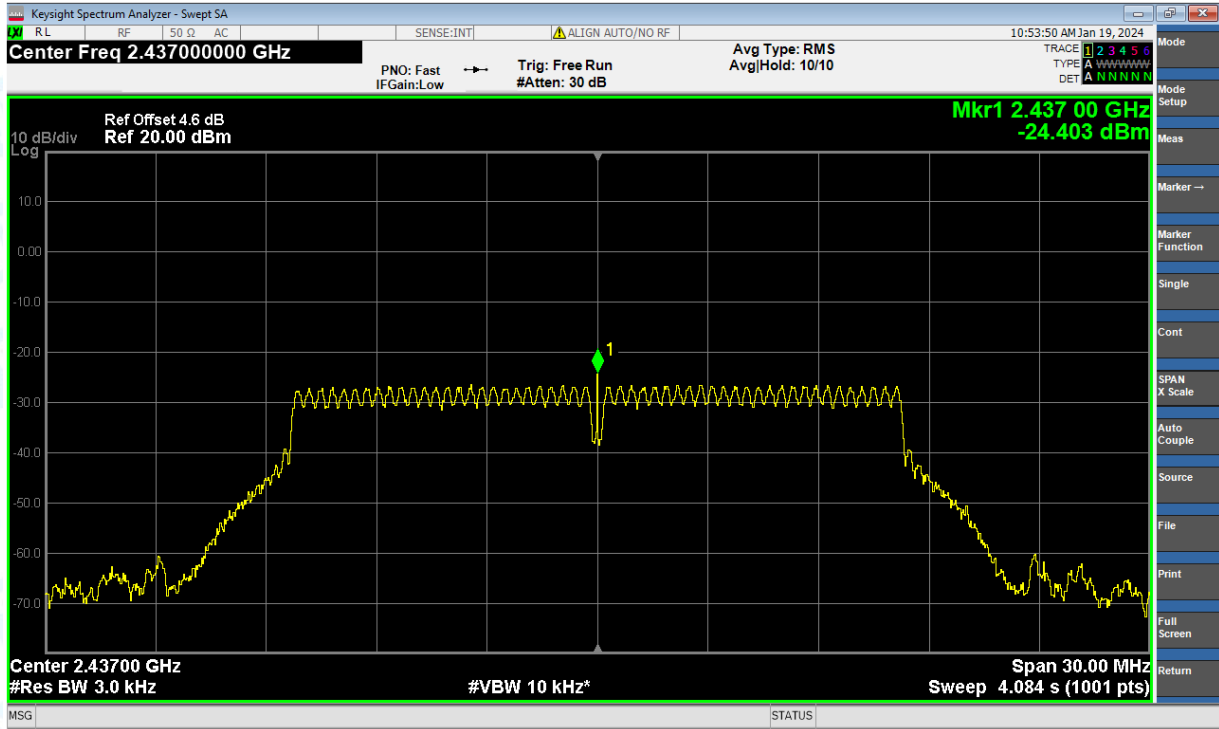
PSD NVNT b 2462MHz Ant1



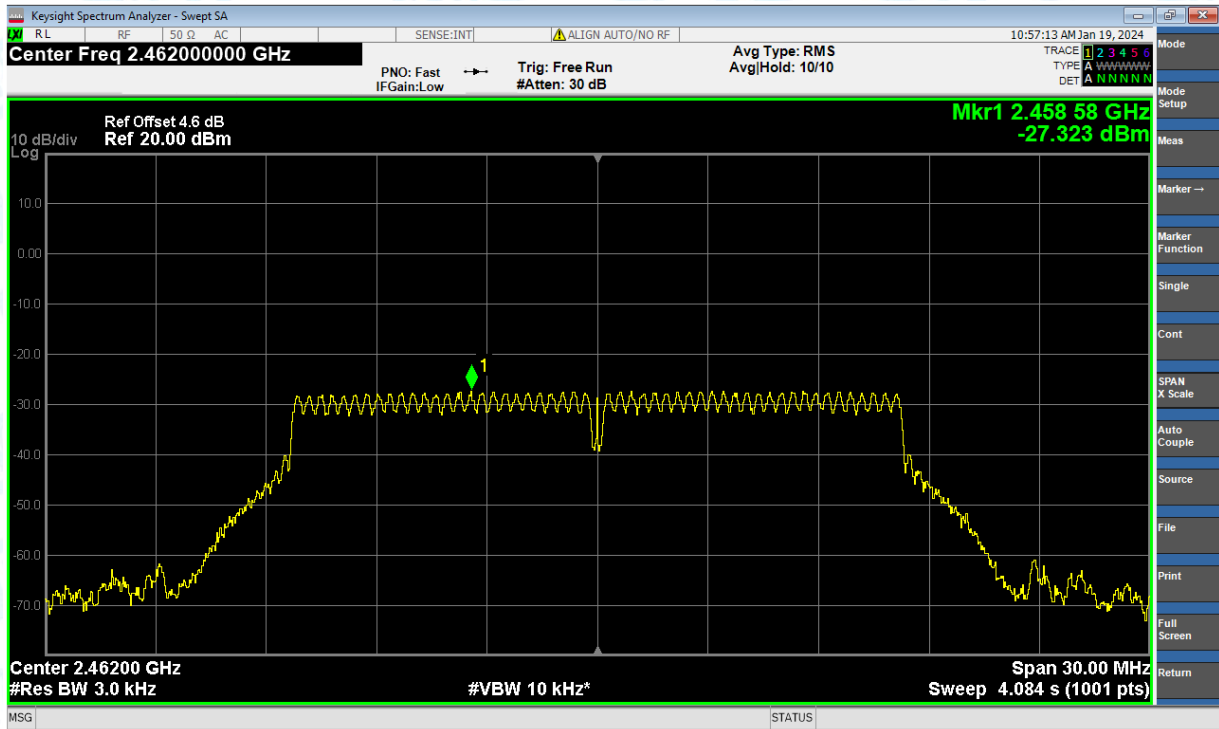
PSD NVNT g 2412MHz Ant1



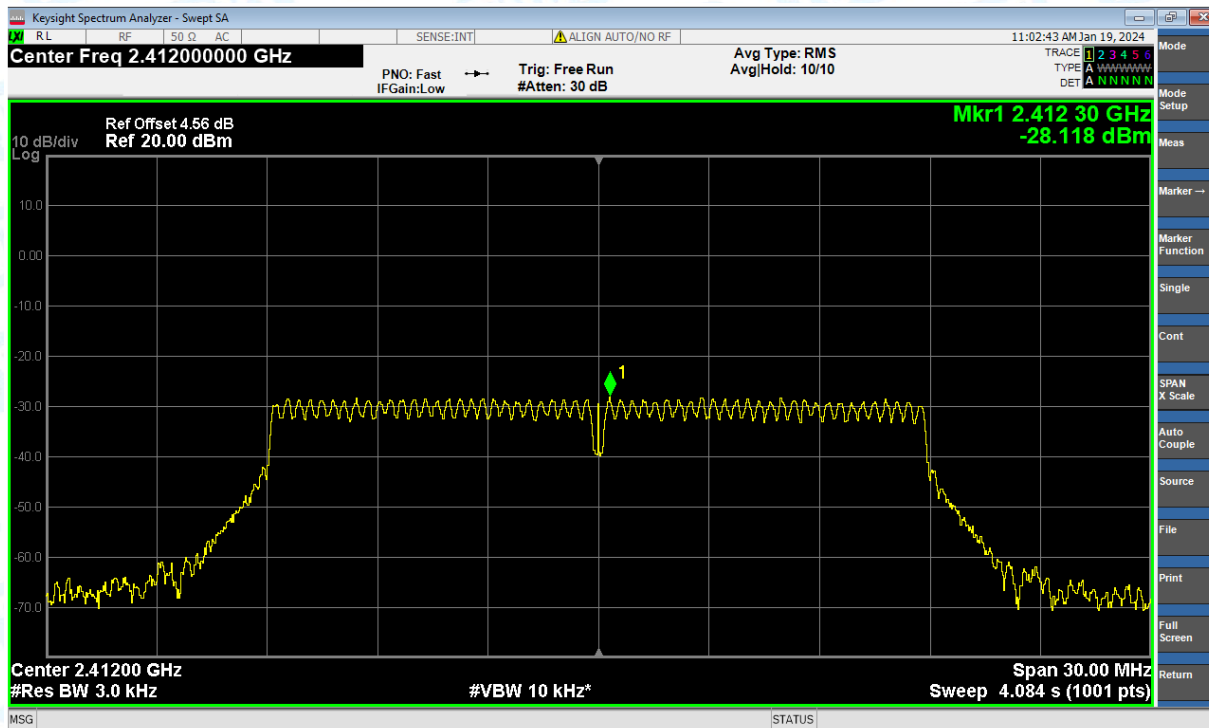
PSD NVNT g 2437MHz Ant1



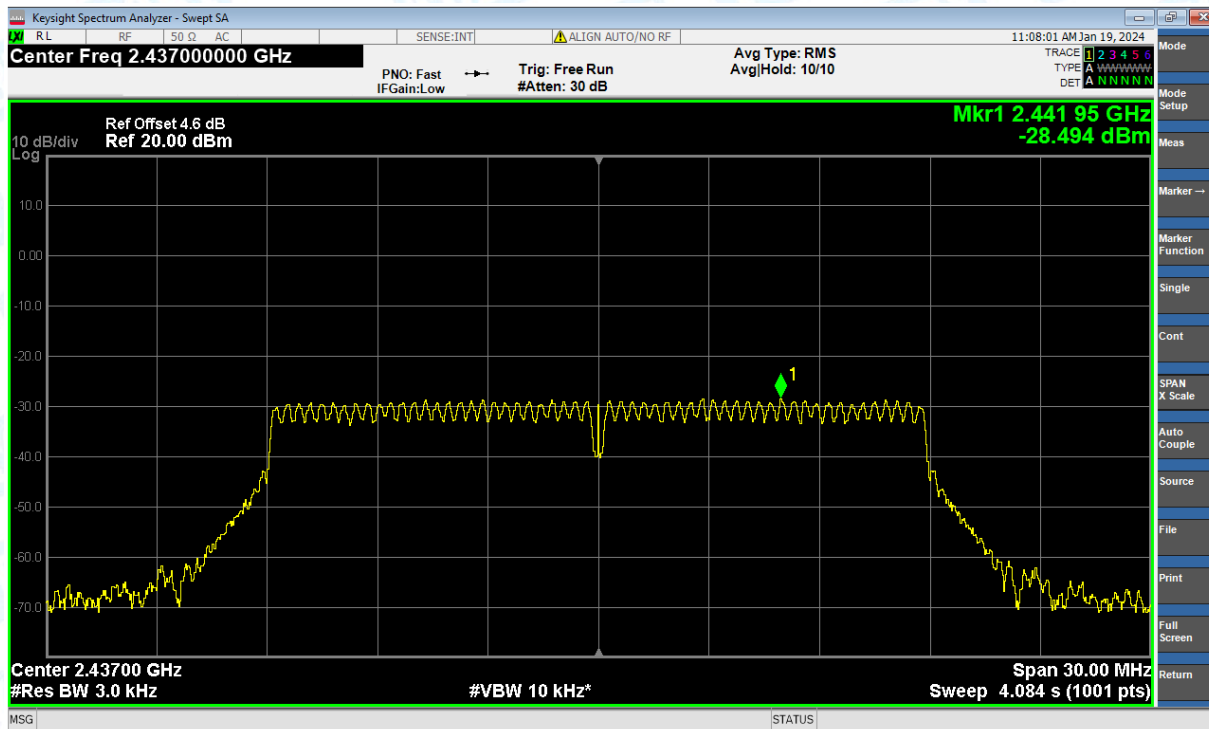
PSD NVNT g 2462MHz Ant1

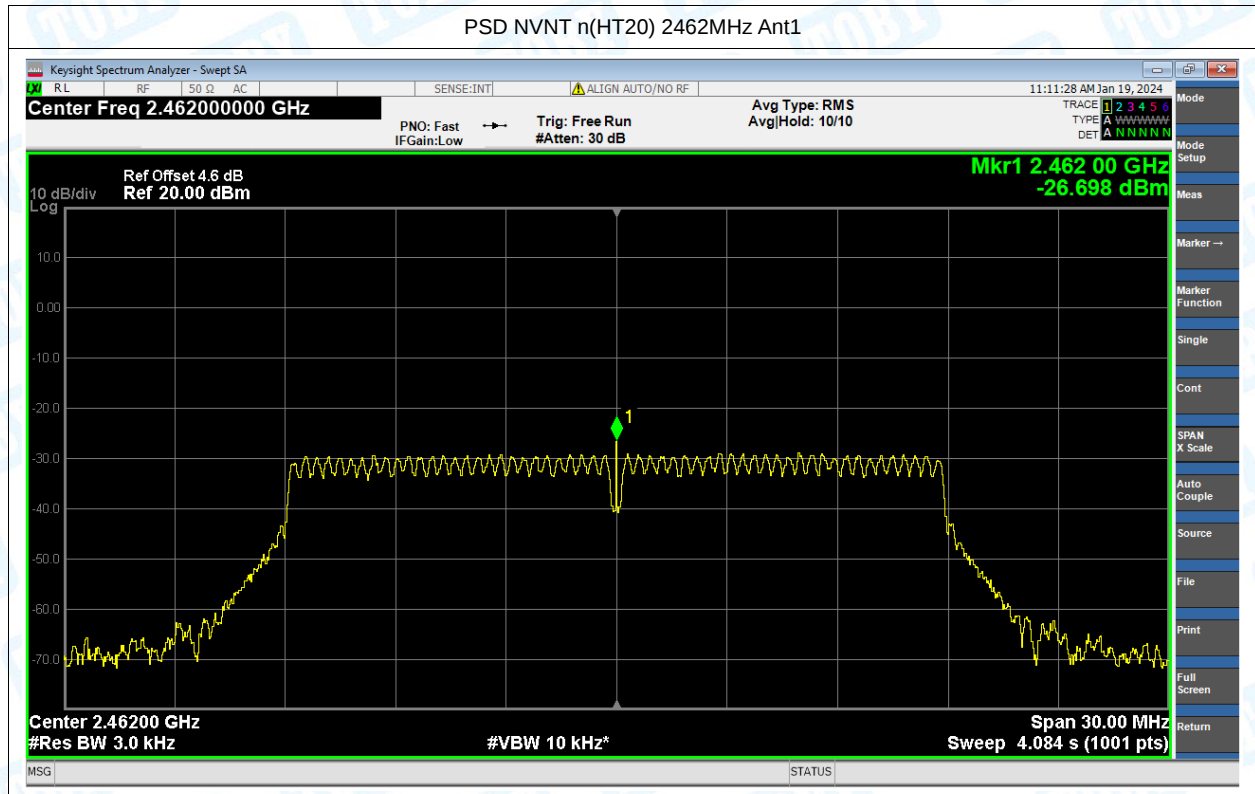


PSD NVNT n(HT20) 2412MHz Ant1



PSD NVNT n(HT20) 2437MHz Ant1





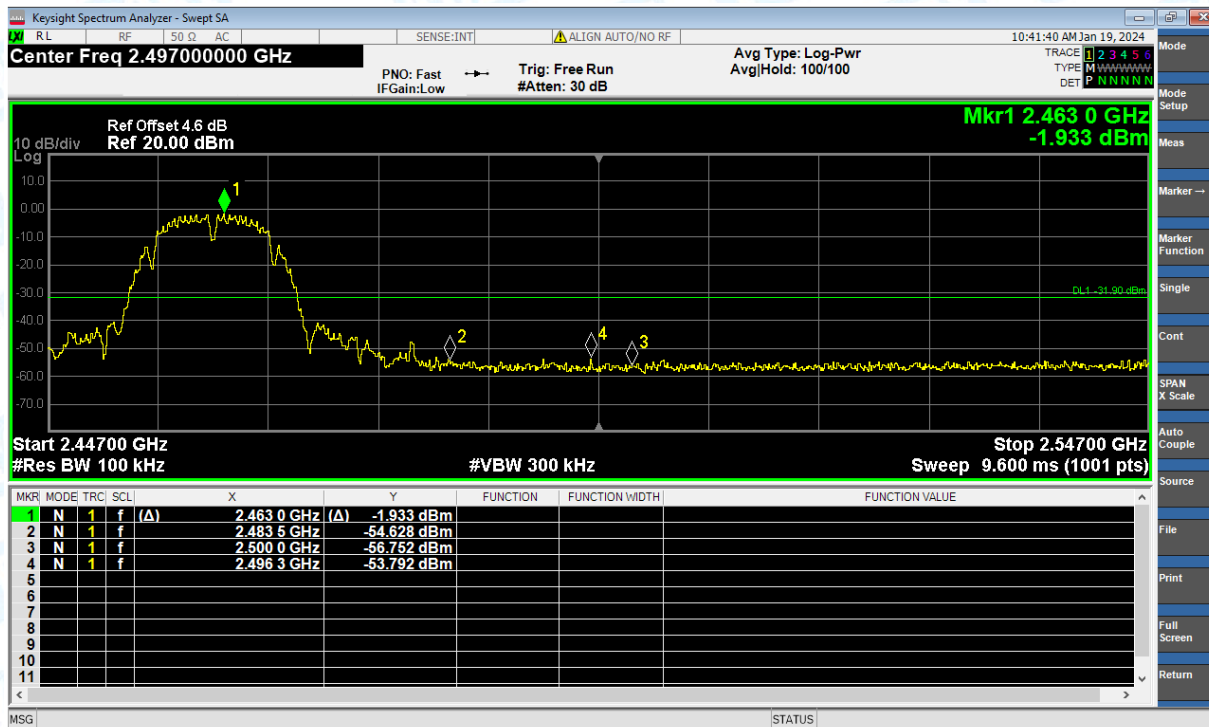
6. Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-53.51	-30	Pass
NVNT	b	2462	Ant1	-51.89	-30	Pass
NVNT	g	2412	Ant1	-41.07	-30	Pass
NVNT	g	2462	Ant1	-41.12	-30	Pass
NVNT	n(HT20)	2412	Ant1	-42.57	-30	Pass
NVNT	n(HT20)	2462	Ant1	-41.89	-30	Pass

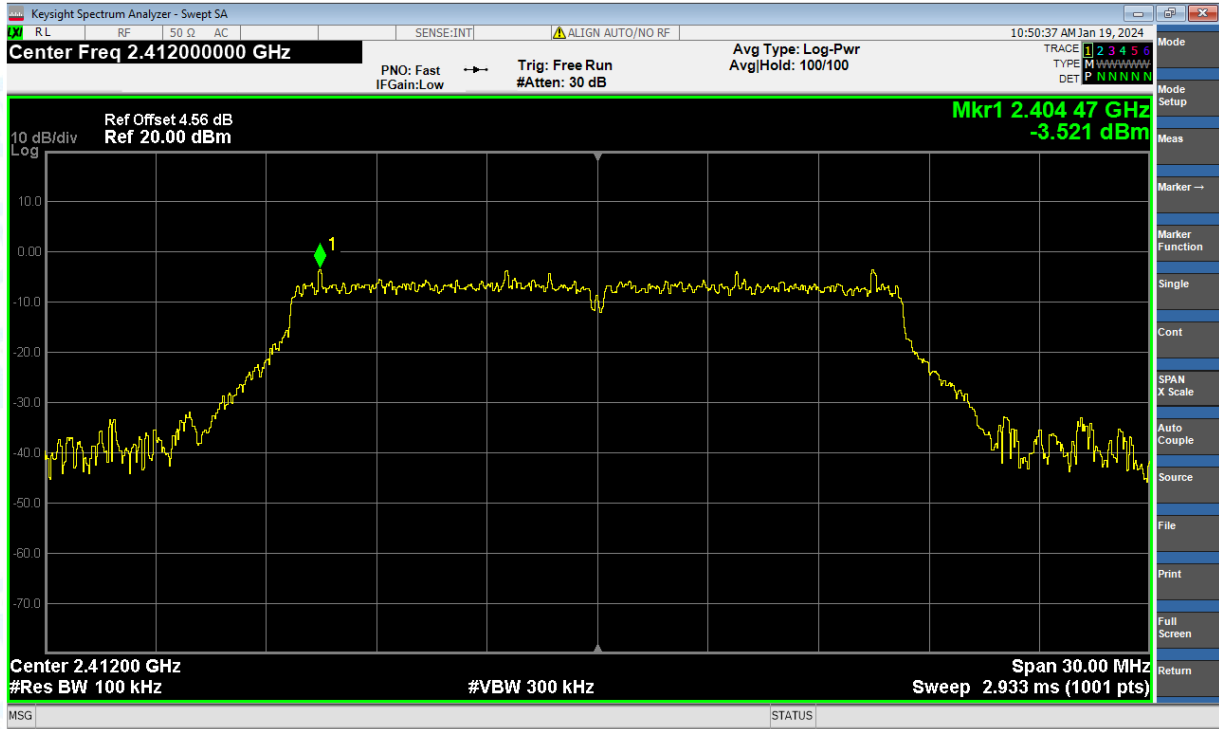
Band Edge NVNT b 2462MHz Ant1 Ref



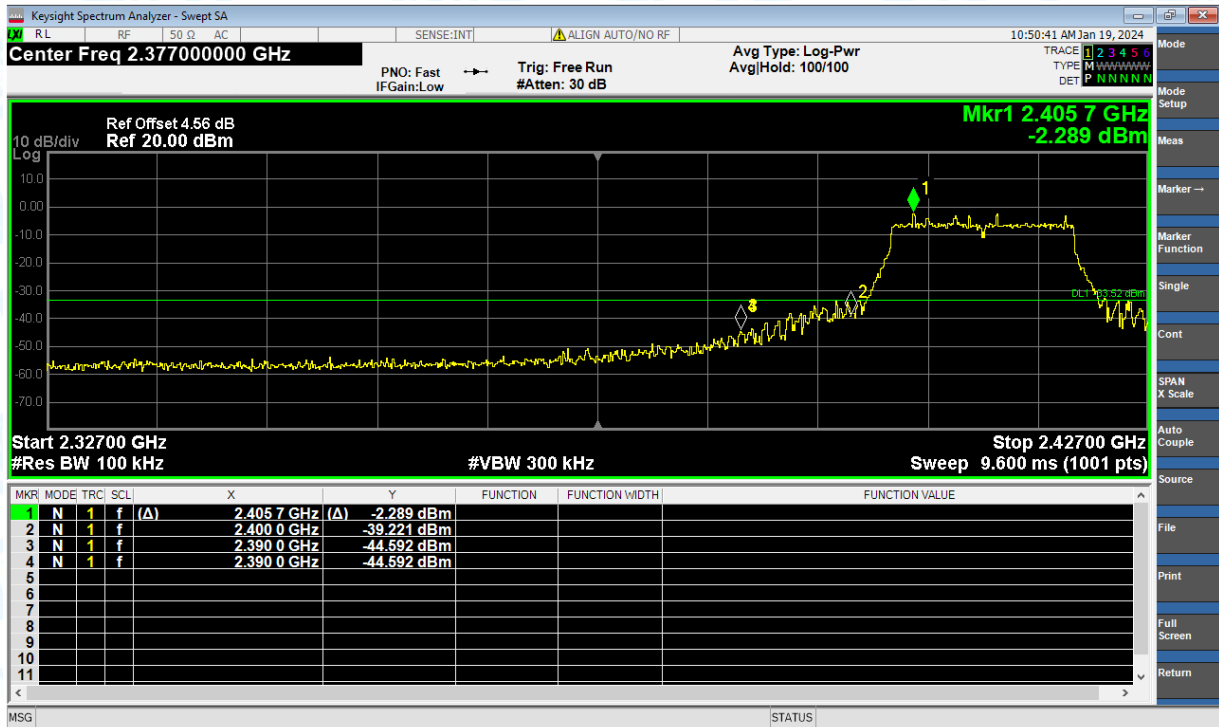
Band Edge NVNT b 2462MHz Ant1 Emission



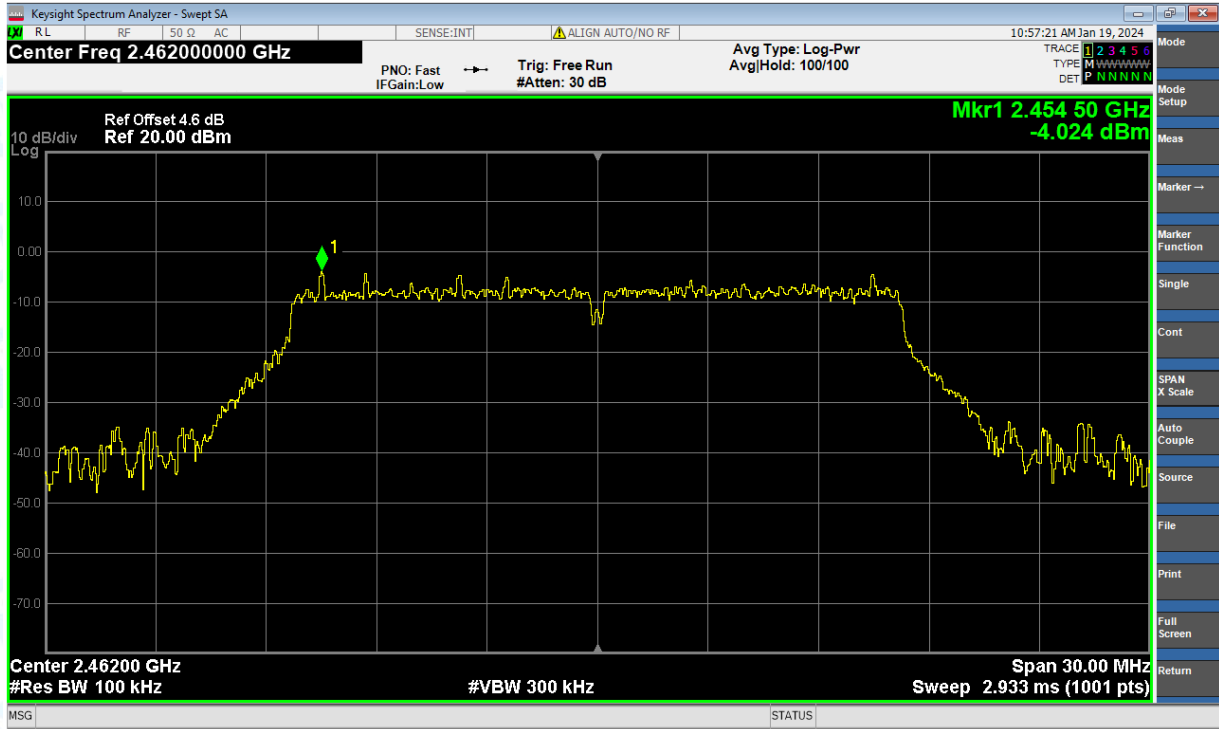
Band Edge NVNT g 2412MHz Ant1 Ref



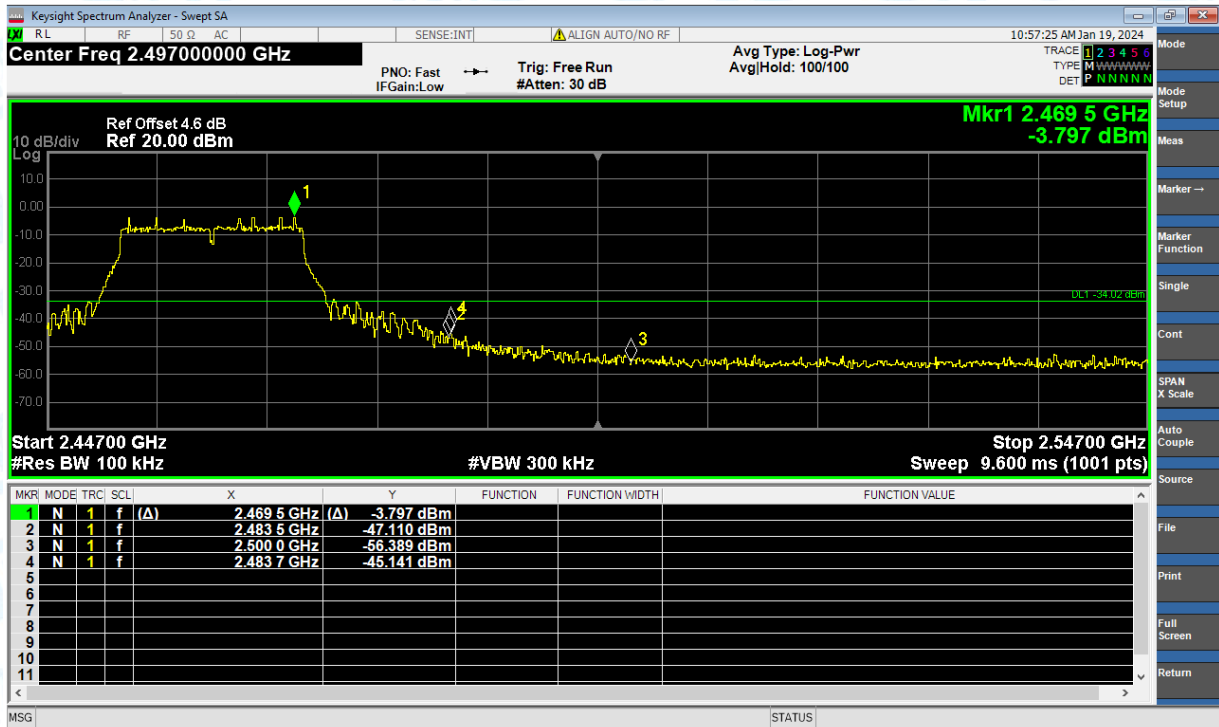
Band Edge NVNT g 2412MHz Ant1 Emission



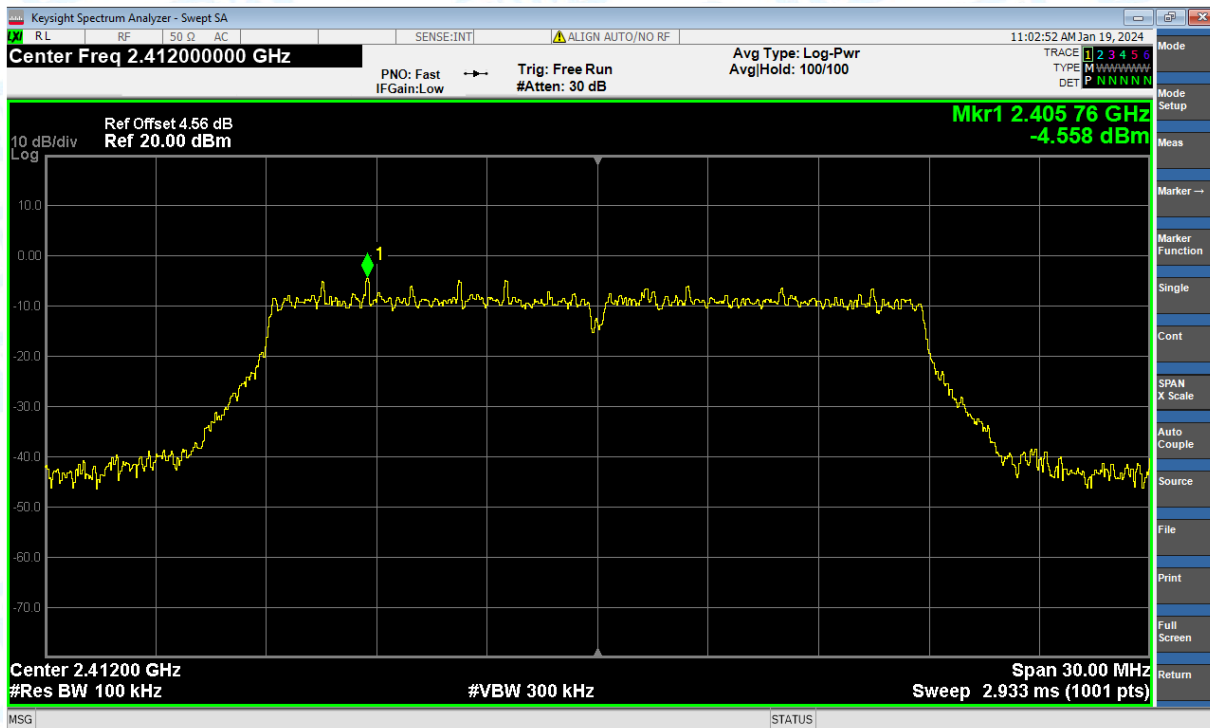
Band Edge NVNT g 2462MHz Ant1 Ref



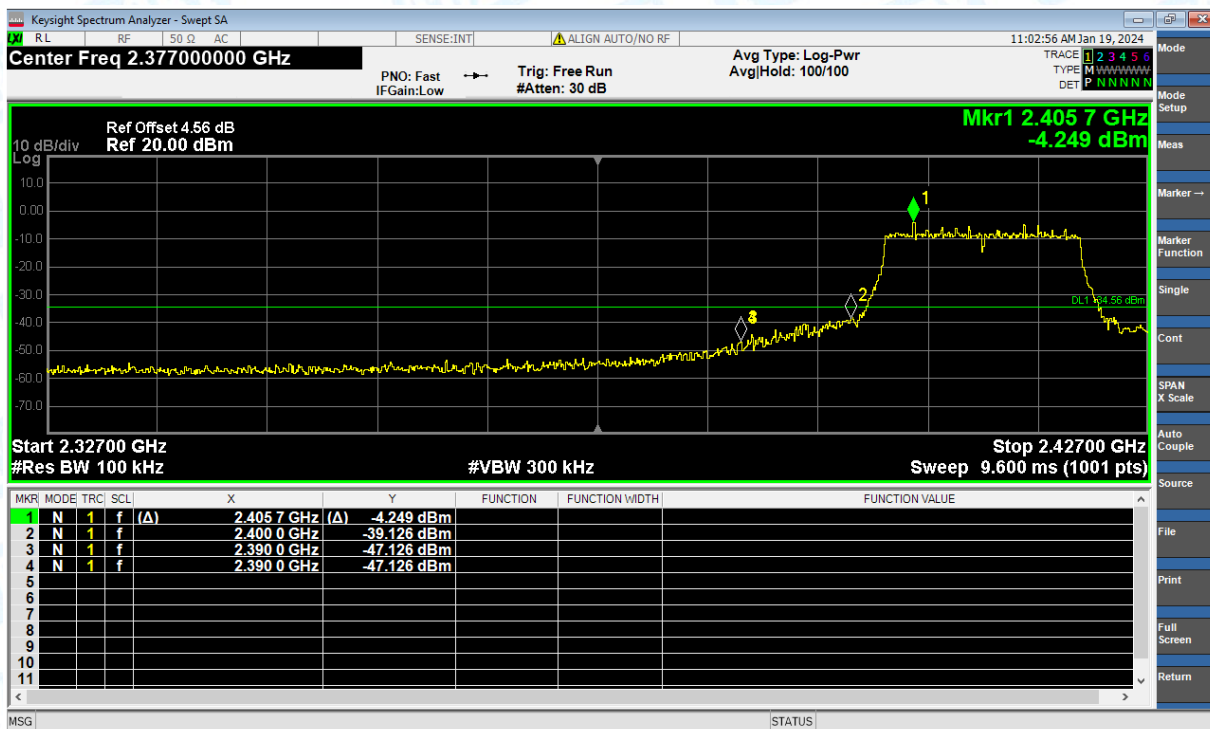
Band Edge NVNT g 2462MHz Ant1 Emission



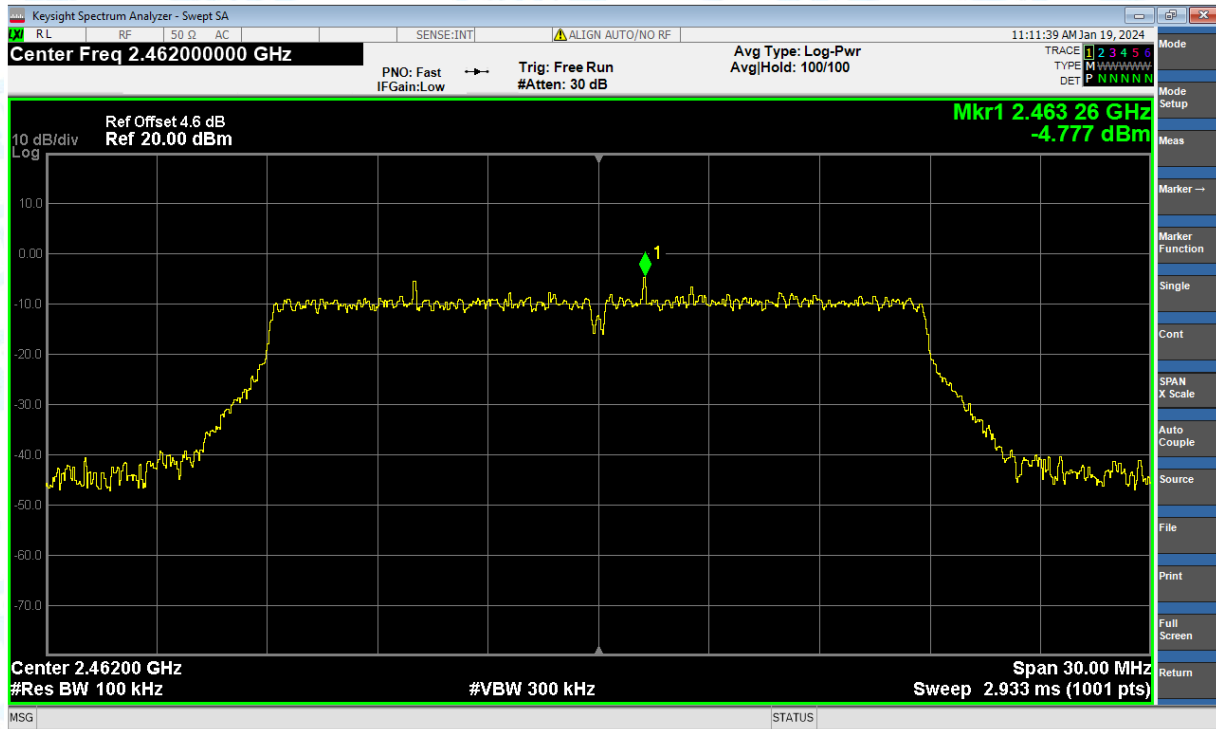
Band Edge NVNT n(HT20) 2412MHz Ant1 Ref



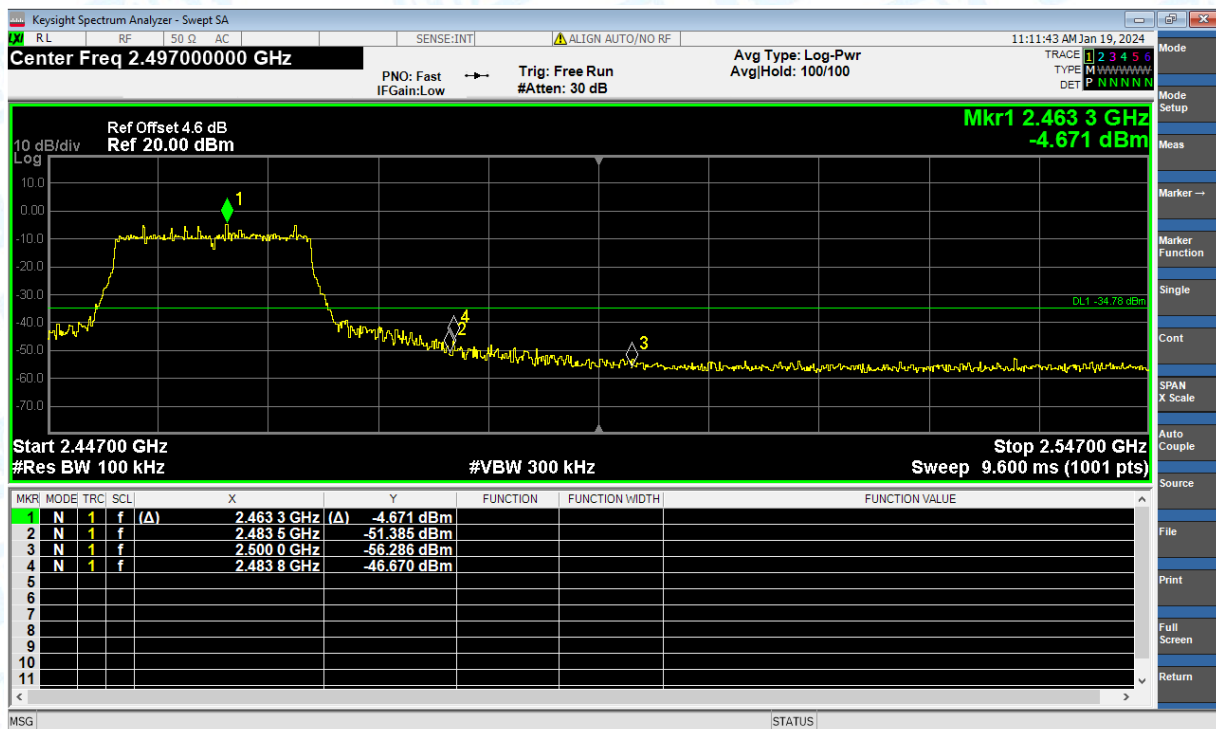
Band Edge NVNT n(HT20) 2412MHz Ant1 Emission



Band Edge NVNT n(HT20) 2462MHz Ant1 Ref



Band Edge NVNT n(HT20) 2462MHz Ant1 Emission



7. Conducted RF Spurious Emission

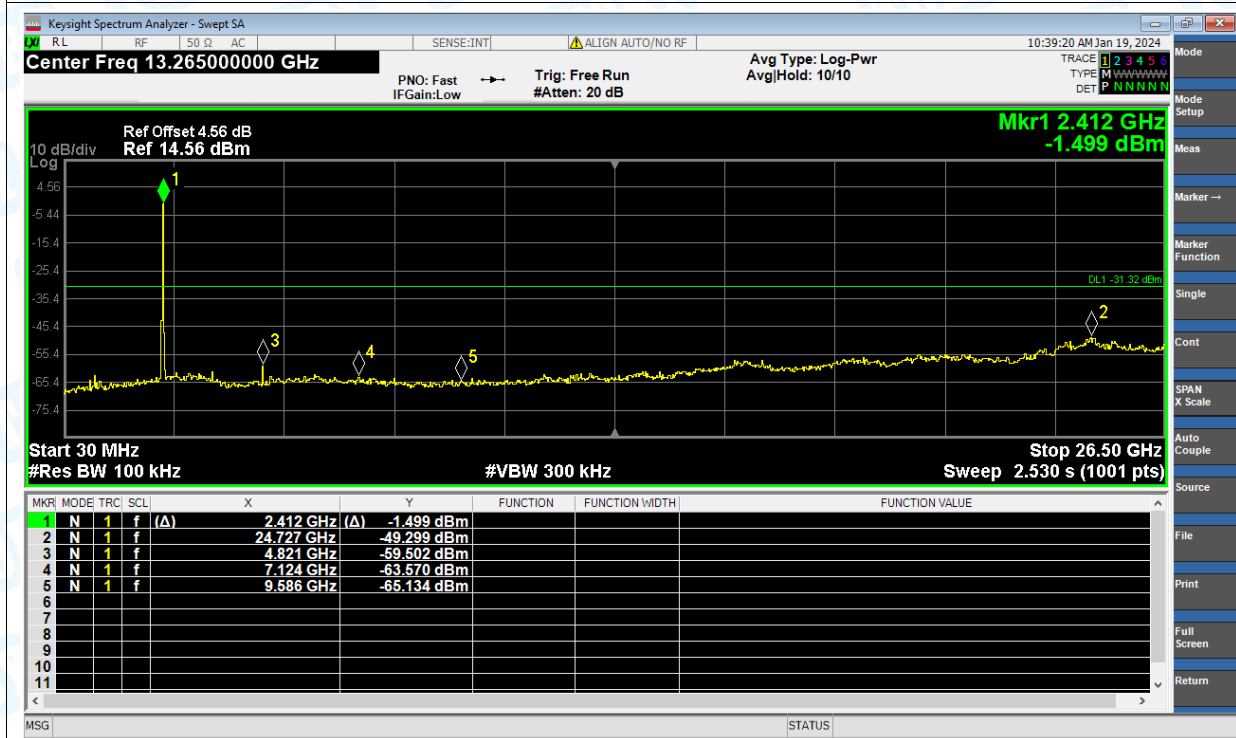
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-47.98	-30	Pass
NVNT	b	2437	Ant1	-48.11	-30	Pass
NVNT	b	2462	Ant1	-46.1	-30	Pass
NVNT	g	2412	Ant1	-46.34	-30	Pass
NVNT	g	2437	Ant1	-46.23	-30	Pass
NVNT	g	2462	Ant1	-45.53	-30	Pass
NVNT	n(HT20)	2412	Ant1	-45.23	-30	Pass
NVNT	n(HT20)	2437	Ant1	-44.04	-30	Pass
NVNT	n(HT20)	2462	Ant1	-39.51	-30	Pass

Test Graphs

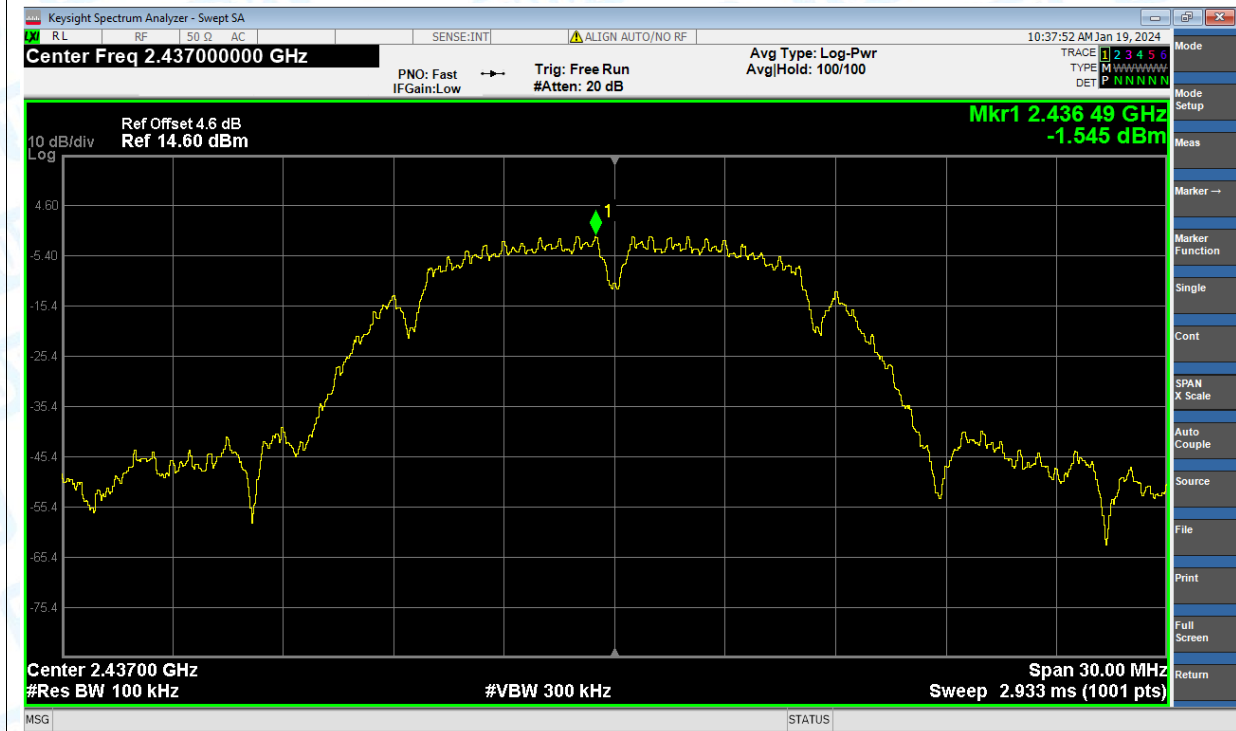
Tx. Spurious NVNT b 2412MHz Ant1 Ref



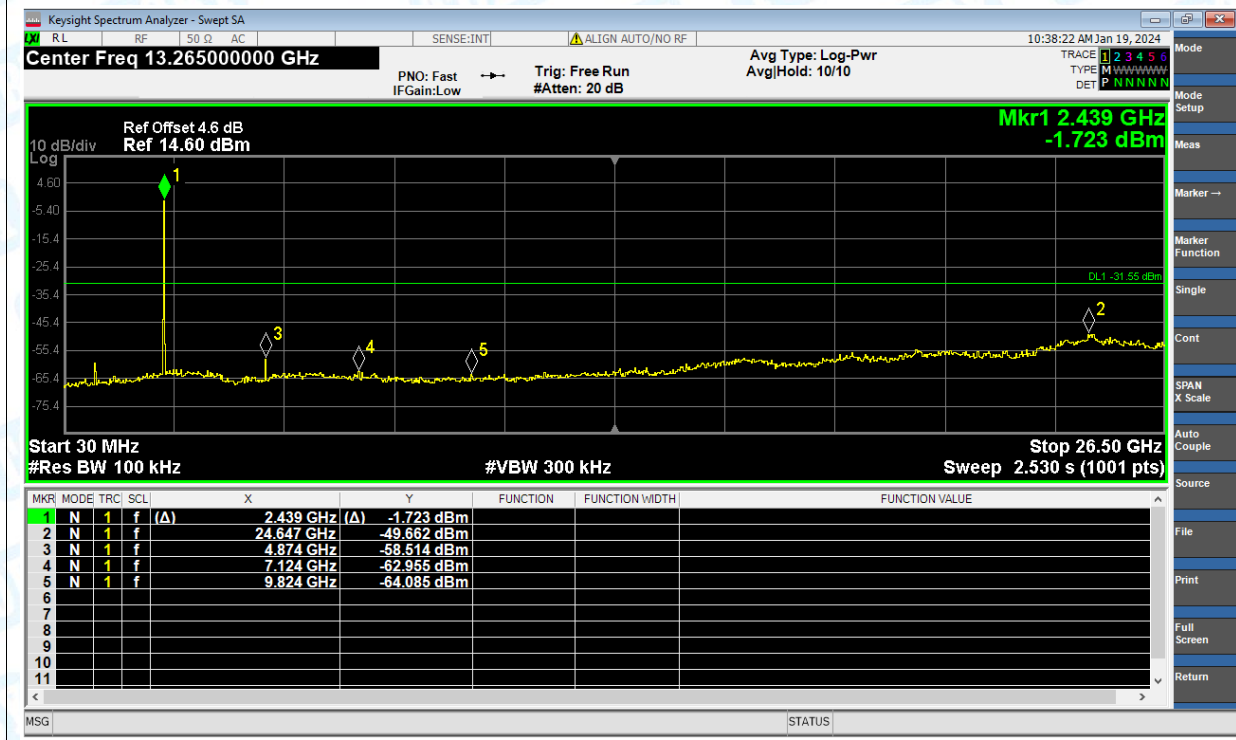
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Tx. Spurious NVNT b 2437MHz Ant1 Ref



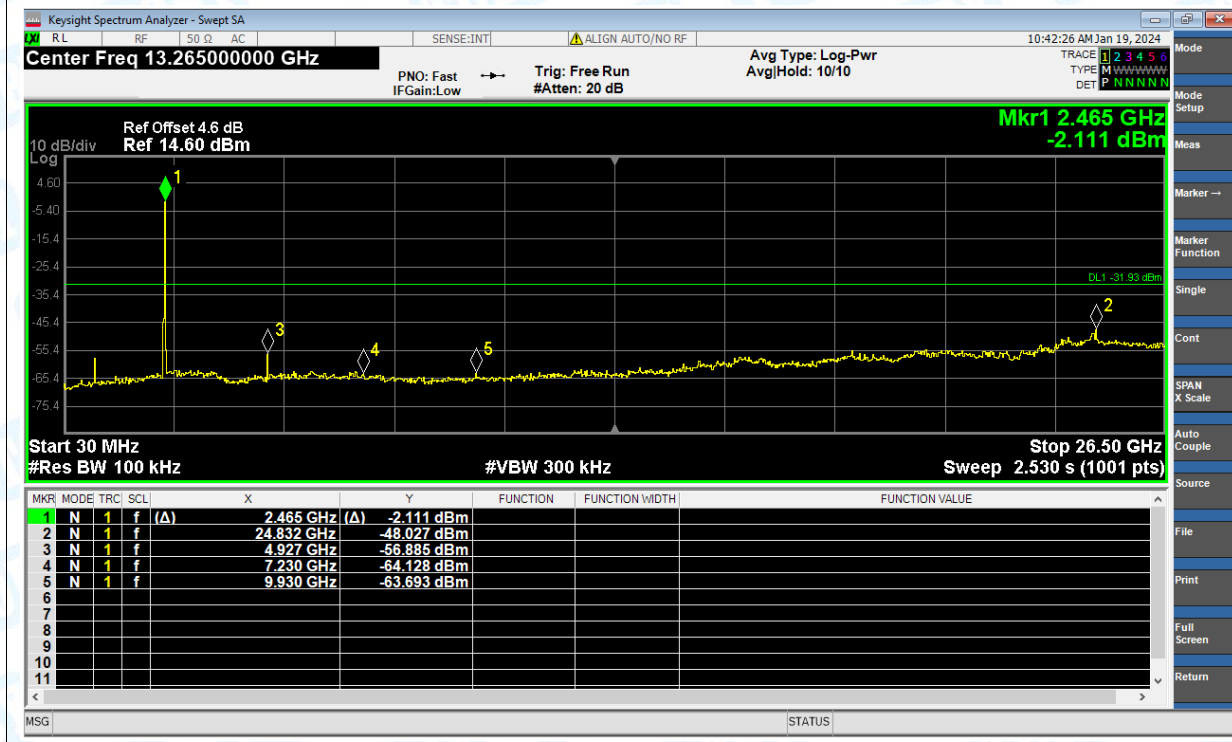
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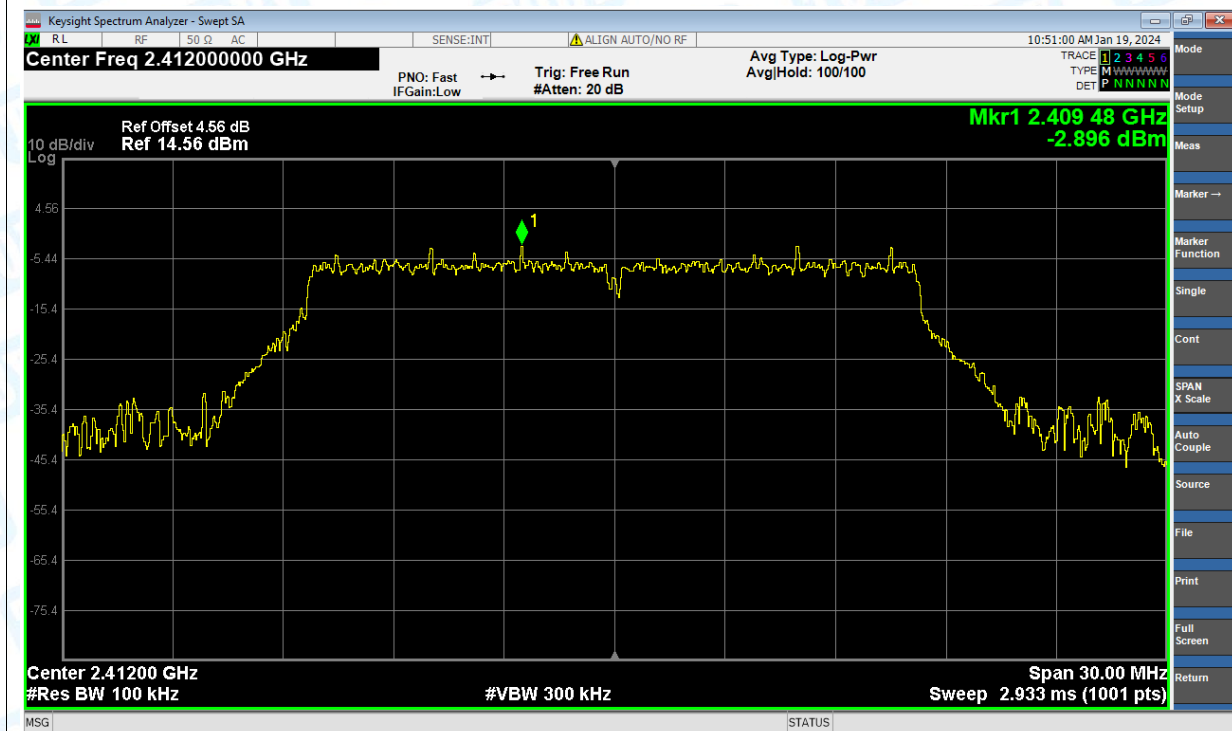
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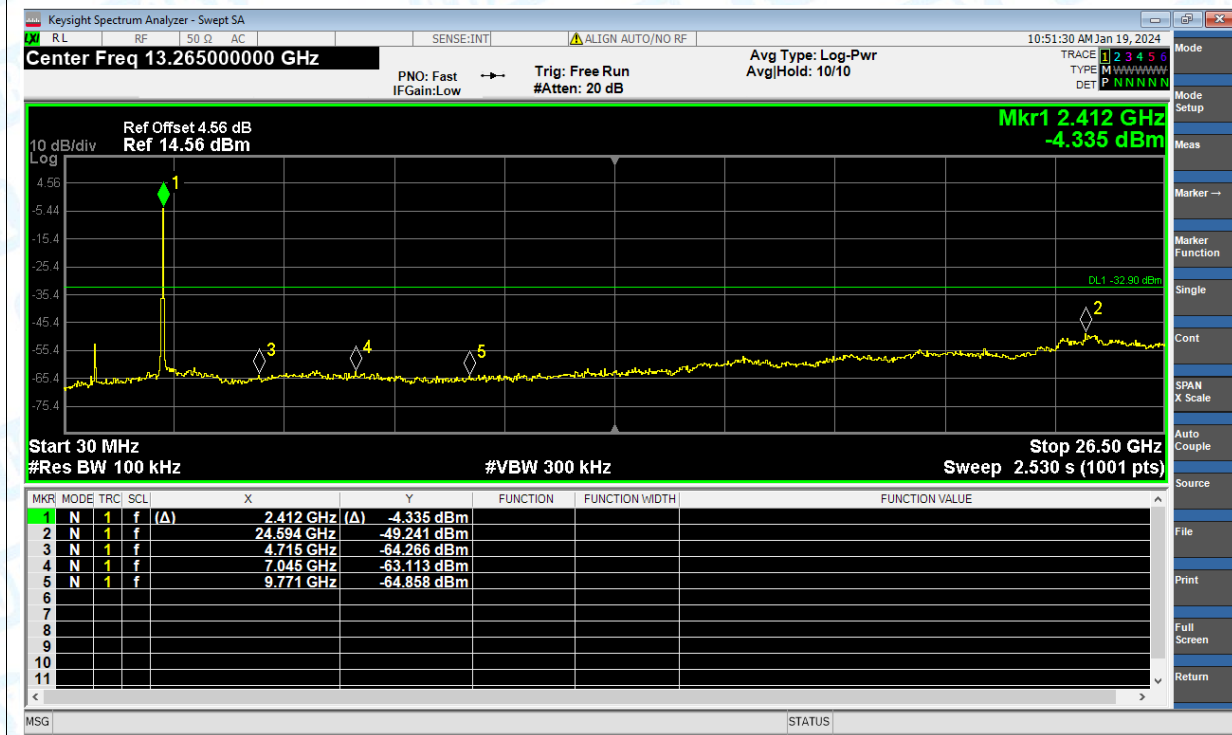
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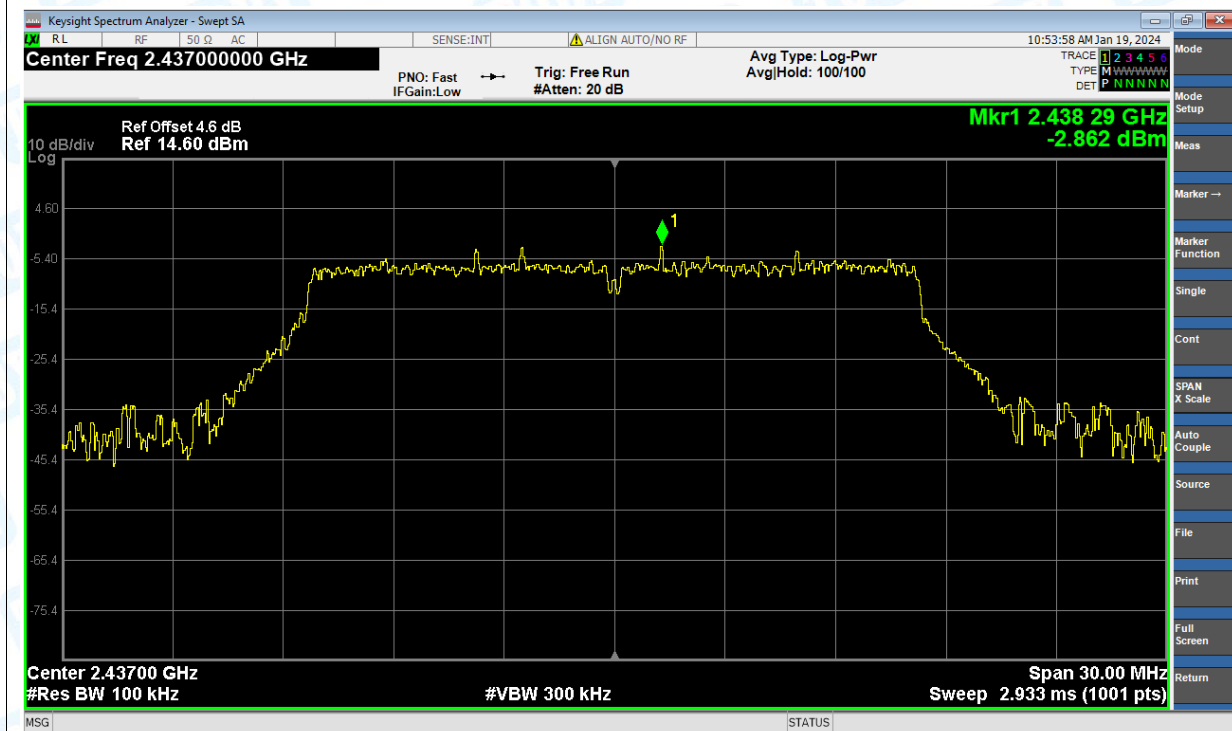
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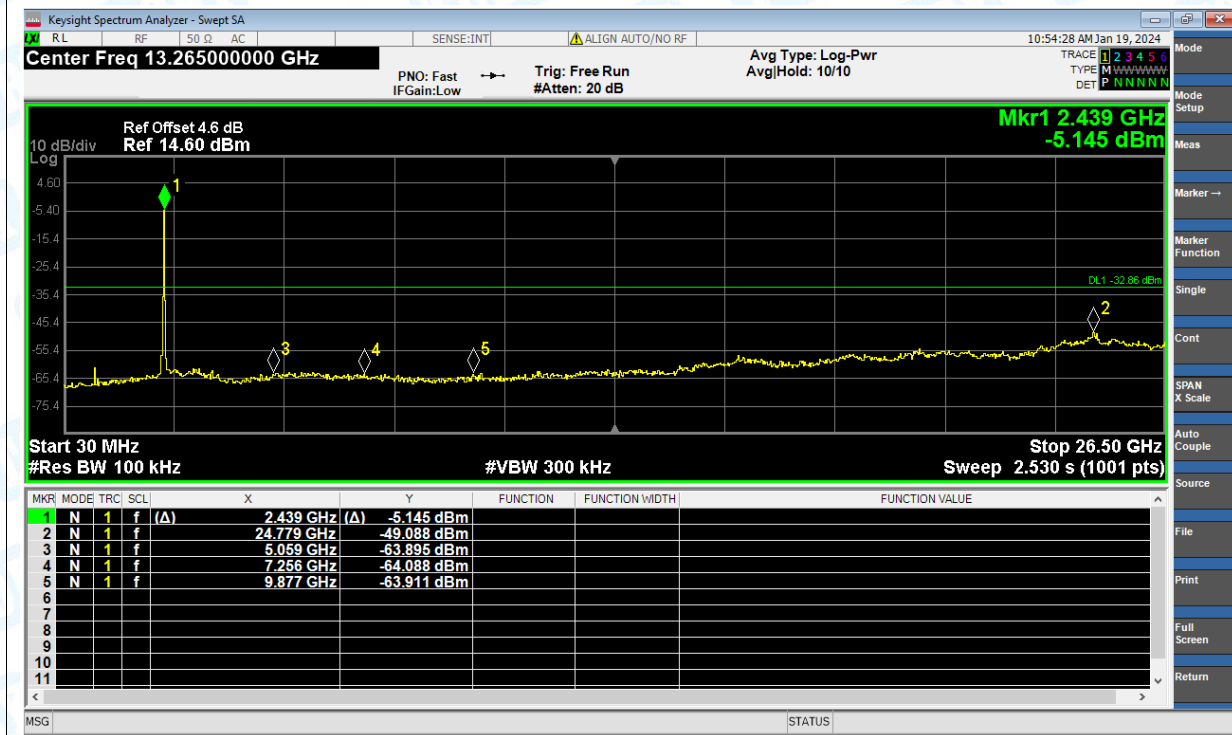
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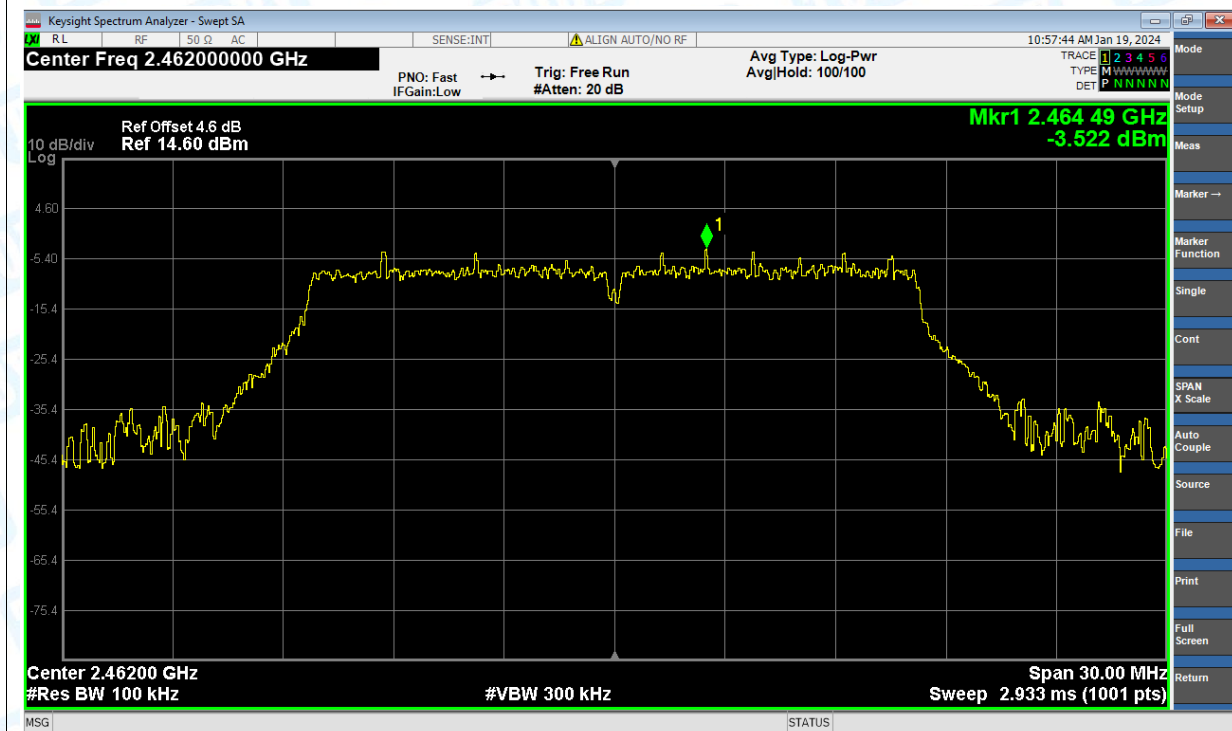
Tx. Spurious NVNT g 2437MHz Ant1 Ref



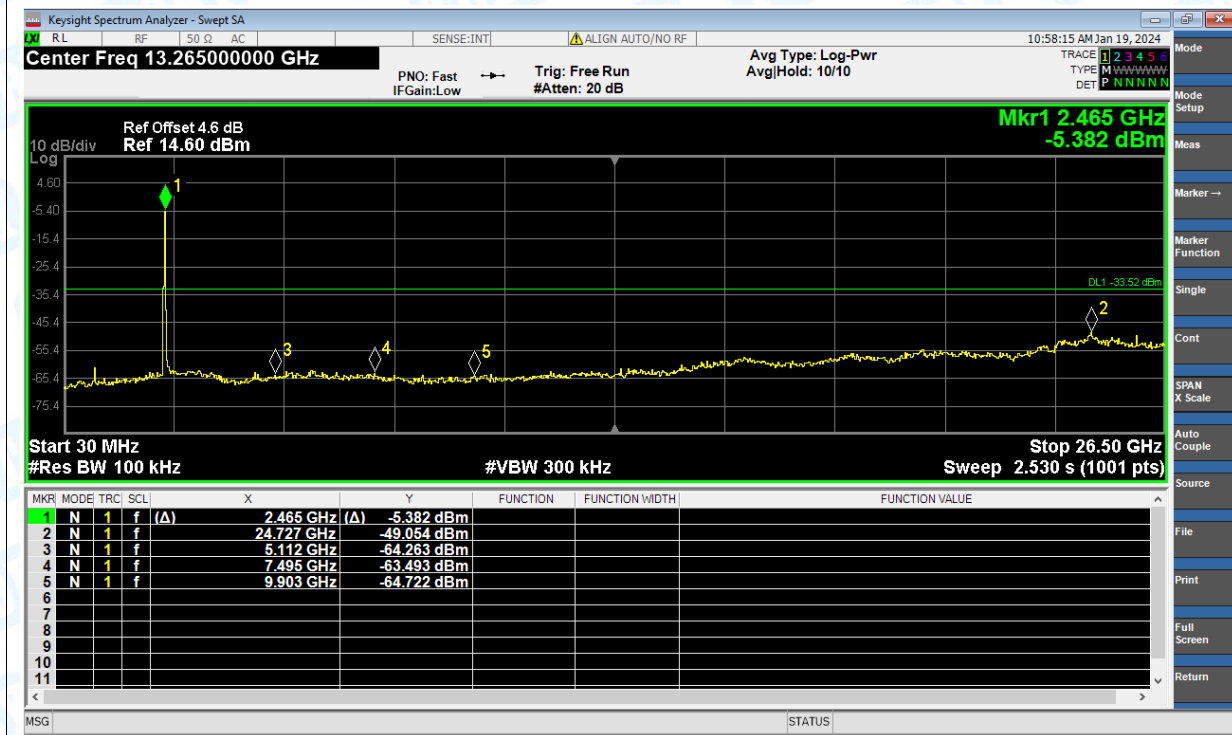
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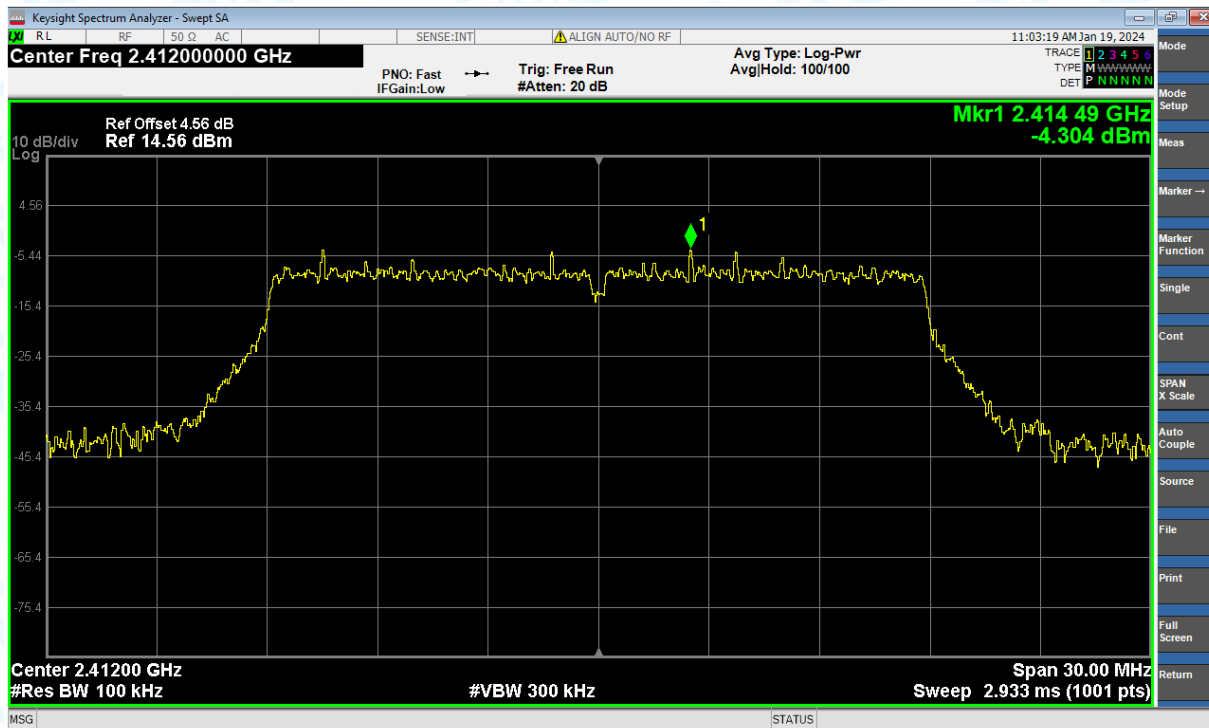
Tx. Spurious NVNT g 2462MHz Ant1 Ref



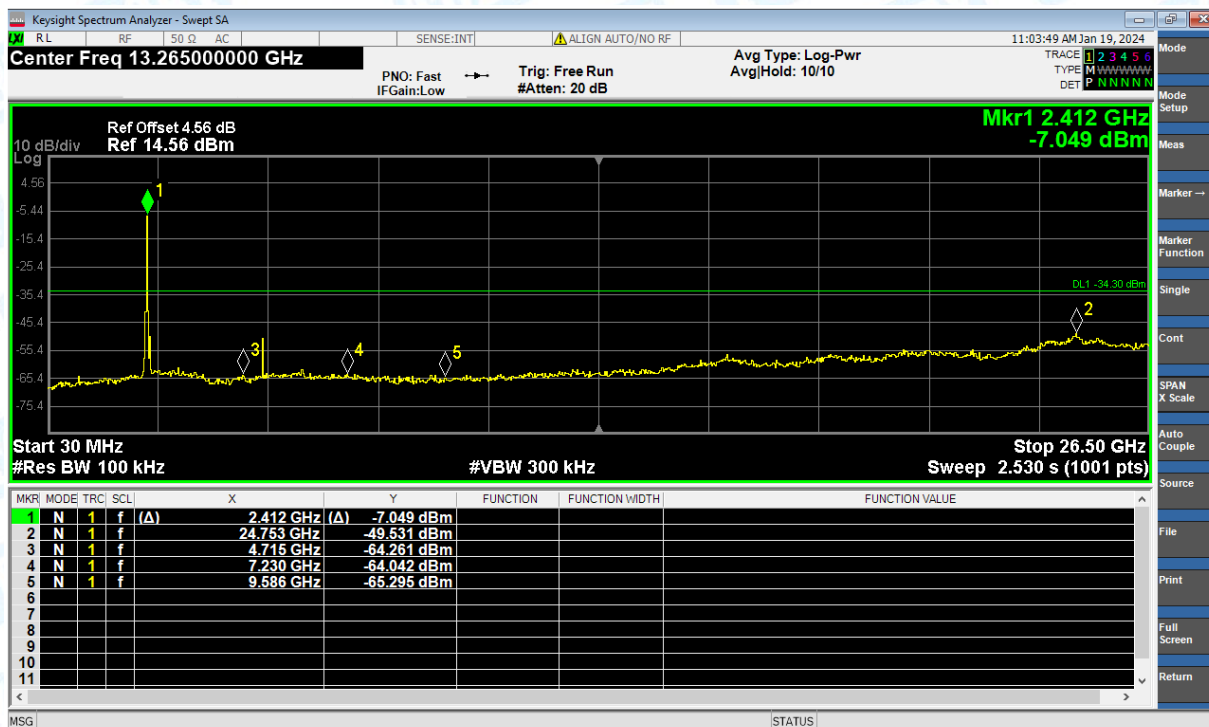
Tx. Spurious NVNT g 2462MHz Ant1 Emission



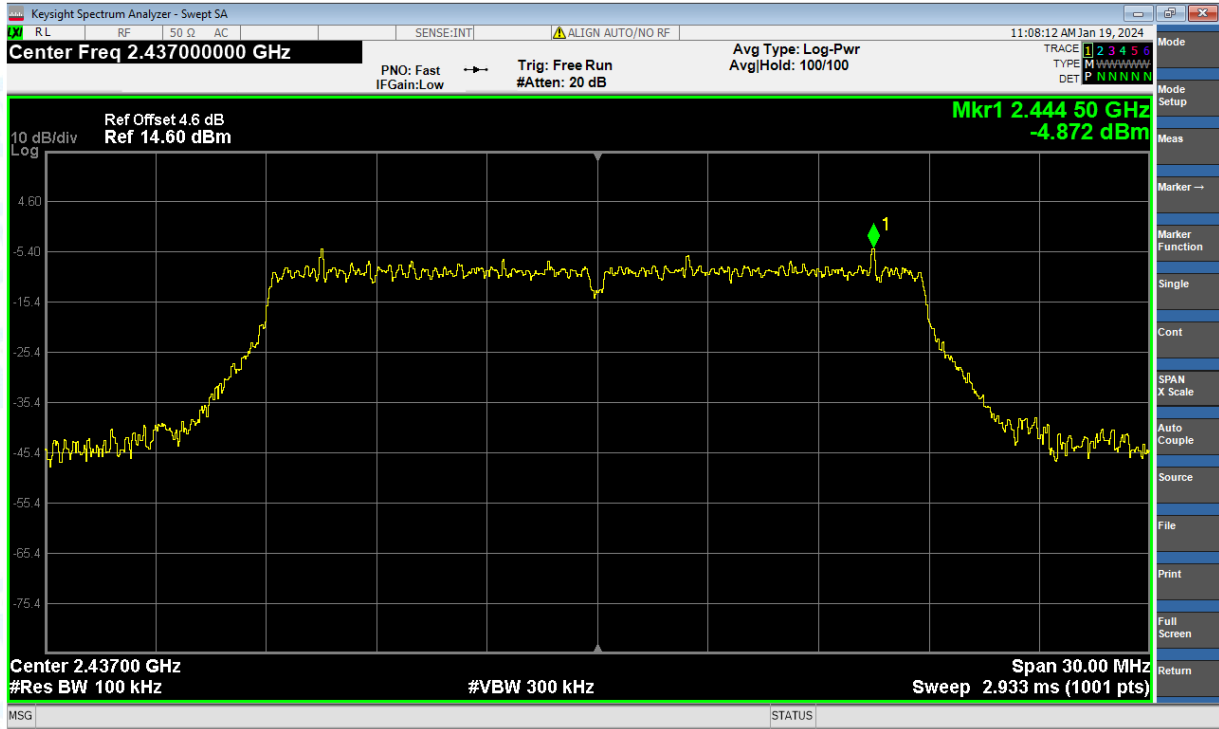
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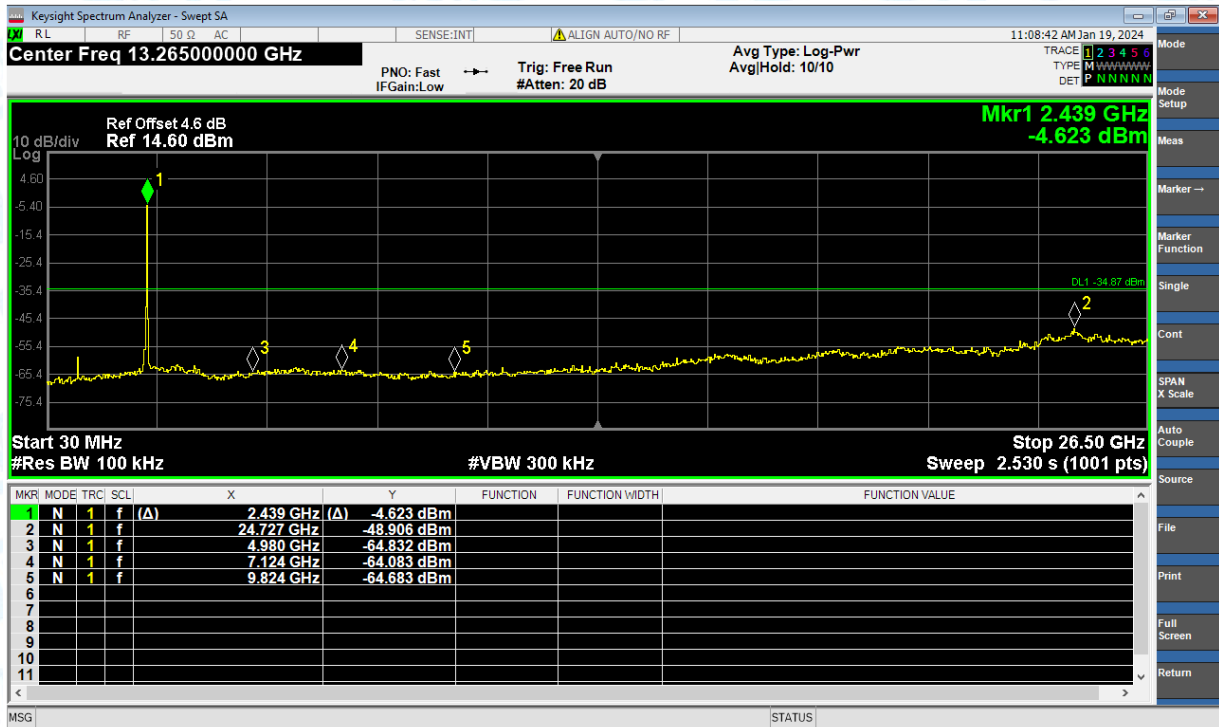
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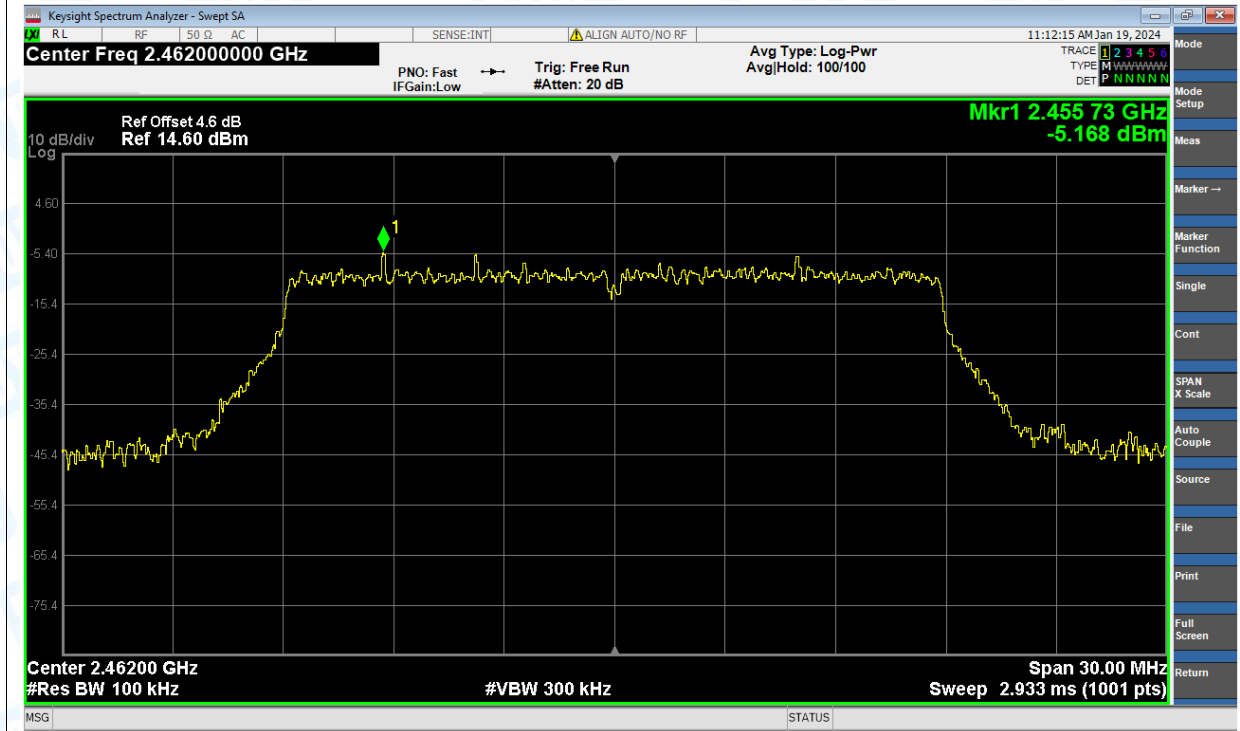
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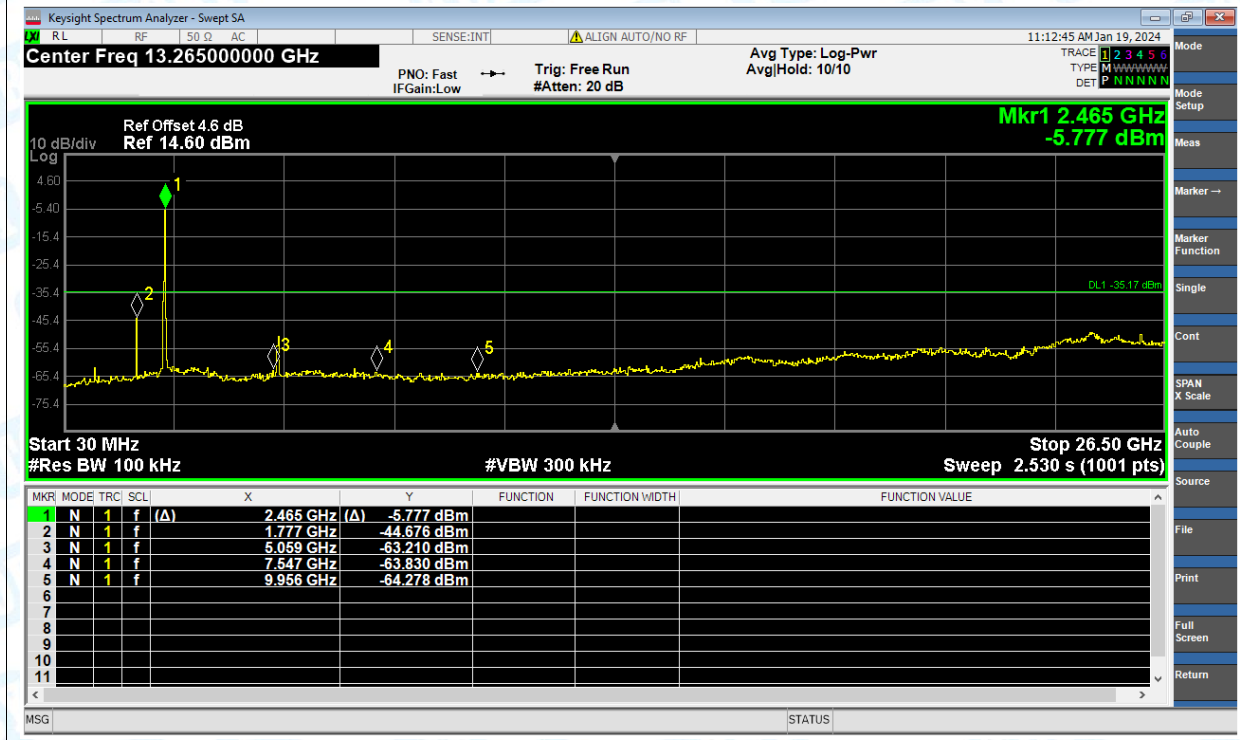
Tx. Spurious NVNT n(HT20) 2437MHz Ant1 Emission



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



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

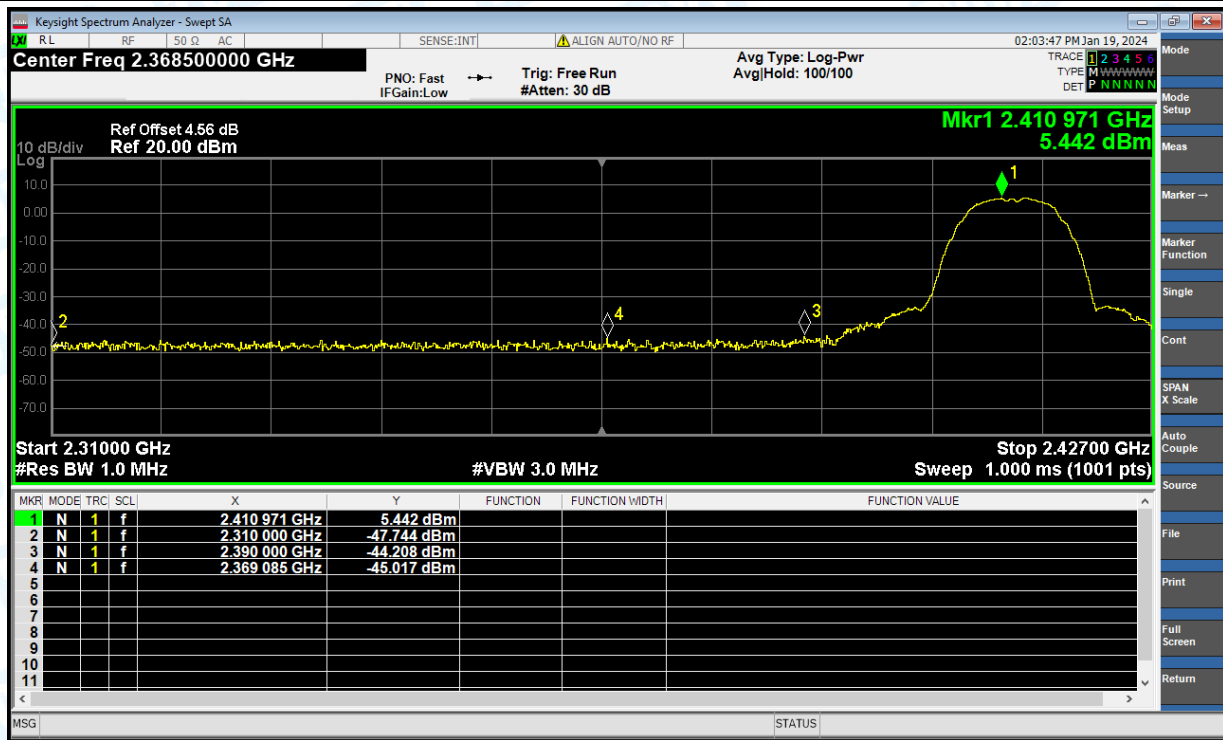


8. Restrict Band

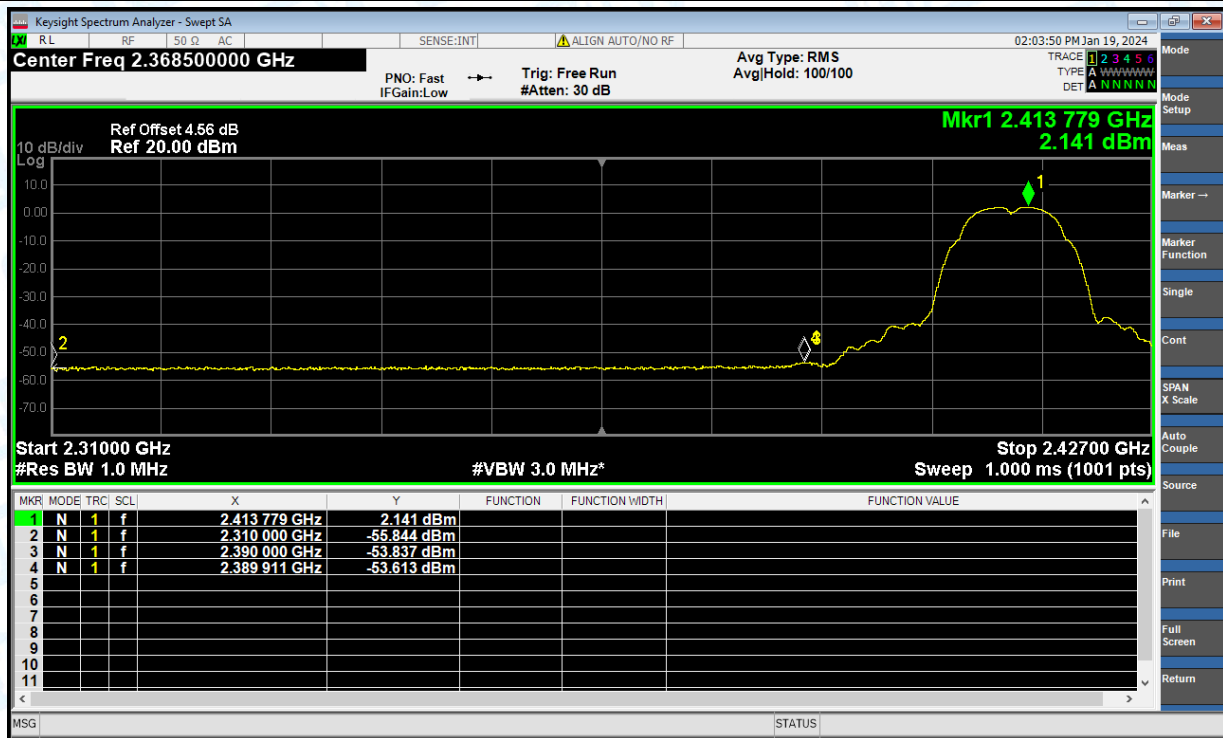
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	b	2412	Ant1	2310	-47.74	2	-	49.52	Peak	74	Pass
NVNT	b	2412	Ant1	2310	-55.84	2	0.03	41.69	Average	54	Pass
NVNT	b	2412	Ant1	2369.085	-45.02	2	-	52.24	Peak	74	Pass
NVNT	b	2412	Ant1	2389.911	-53.61	2	0.03	43.92	Average	54	Pass
NVNT	b	2412	Ant1	2390	-44.21	2	-	53.05	Peak	74	Pass
NVNT	b	2412	Ant1	2390	-53.84	2	0.03	43.69	Average	54	Pass
NVNT	b	2462	Ant1	2483.5	-45.97	2	-	51.29	Peak	74	Pass
NVNT	b	2462	Ant1	2483.5	-54.29	2	0.02	43.11	Average	54	Pass
NVNT	b	2462	Ant1	2489.241	-42.46	2	-	54.8	Peak	74	Pass
NVNT	b	2462	Ant1	2484.312	-53.46	2	0.02	43.94	Average	54	Pass
NVNT	b	2462	Ant1	2500	-46.36	2	-	50.90	Peak	74	Pass
NVNT	b	2462	Ant1	2500	-54.65	2	0.02	42.75	Average	54	Pass
NVNT	g	2412	Ant1	2310	-47.89	2	-	49.37	Peak	74	Pass
NVNT	g	2412	Ant1	2310	-55.29	2	0.12	43.72	Average	54	Pass
NVNT	g	2412	Ant1	2389.443	-31.95	2	-	65.31	Peak	74	Pass
NVNT	g	2412	Ant1	2389.911	-48.41	2	0.12	50.60	Average	54	Pass
NVNT	g	2412	Ant1	2390	-37.15	2	-	60.11	Peak	74	Pass
NVNT	g	2412	Ant1	2390	-49.02	2	0.12	49.99	Average	54	Pass
NVNT	g	2462	Ant1	2483.5	-34.26	2	-	63.00	Peak	74	Pass
NVNT	g	2462	Ant1	2483.5	-47.58	2	0.09	50.82	Average	54	Pass
NVNT	g	2462	Ant1	2483.623	-31.15	2	-	66.11	Peak	74	Pass
NVNT	g	2462	Ant1	2484.365	-47.1	2	0.09	51.30	Average	54	Pass
NVNT	g	2462	Ant1	2500	-44.55	2	-	52.71	Peak	74	Pass
NVNT	g	2462	Ant1	2500	-53.03	2	0.09	45.37	Average	54	Pass
NVNT	n(HT20)	2412	Ant1	2310	-47.83	2	-	49.43	Peak	74	Pass
NVNT	n(HT20)	2412	Ant1	2310	-55.64	2	0.07	42.94	Average	54	Pass
NVNT	n(HT20)	2412	Ant1	2389.677	-33.1	2	-	64.16	Peak	74	Pass
NVNT	n(HT20)	2412	Ant1	2389.443	-48.55	2	0.07	50.03	Average	54	Pass
NVNT	n(HT20)	2412	Ant1	2390	-34.18	2	-	63.08	Peak	74	Pass
NVNT	n(HT20)	2412	Ant1	2390	-50.17	2	0.07	48.41	Average	54	Pass
NVNT	n(HT20)	2462	Ant1	2483.5	-34.2	2	-	63.06	Peak	74	Pass
NVNT	n(HT20)	2462	Ant1	2483.5	-48.29	2	0.09	50.47	Average	54	Pass
NVNT	n(HT20)	2462	Ant1	2483.835	-30.04	2	-	67.22	Peak	74	Pass
NVNT	n(HT20)	2462	Ant1	2483.57	-47.76	2	0.09	51.00	Average	54	Pass
NVNT	n(HT20)	2462	Ant1	2500	-46.98	2	-	50.28	Peak	74	Pass
NVNT	n(HT20)	2462	Ant1	2500	-54.5	2	0.09	44.26	Average	54	Pass

Test Graphs

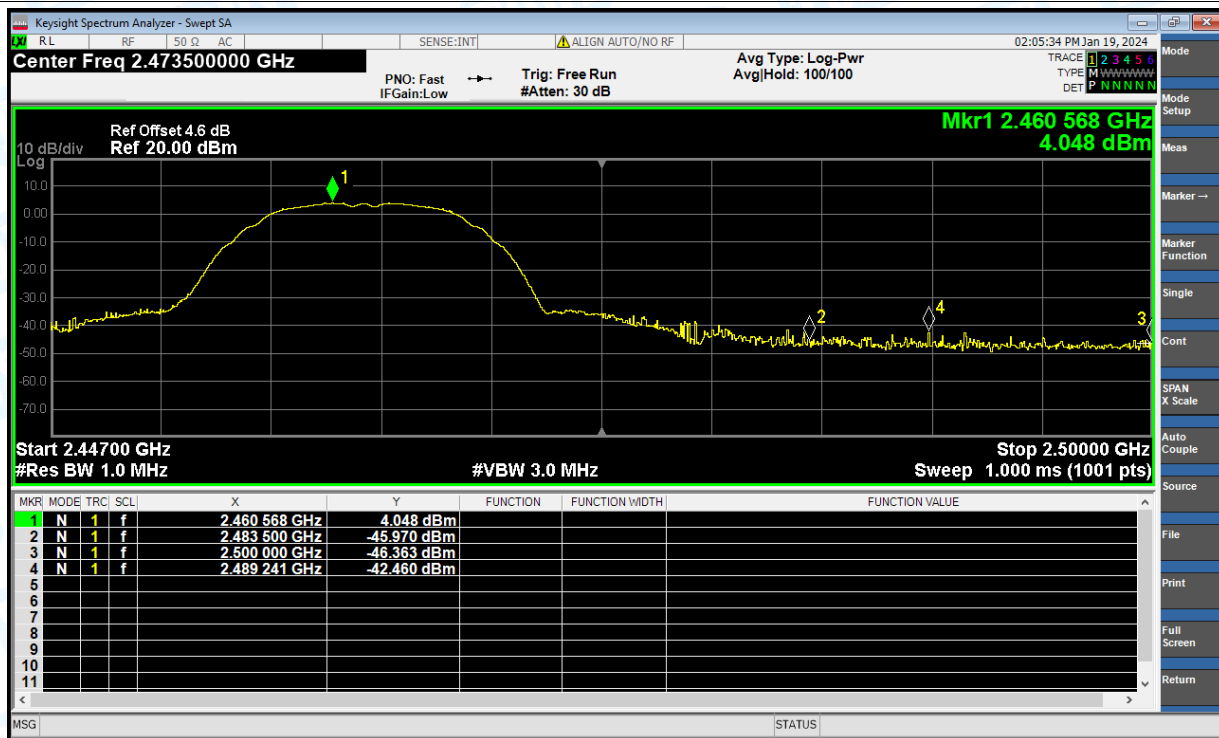
Restrict Band NVNT b 2412MHz Ant1 Peak



Restrict Band NVNT b 2412MHz Ant1 Average



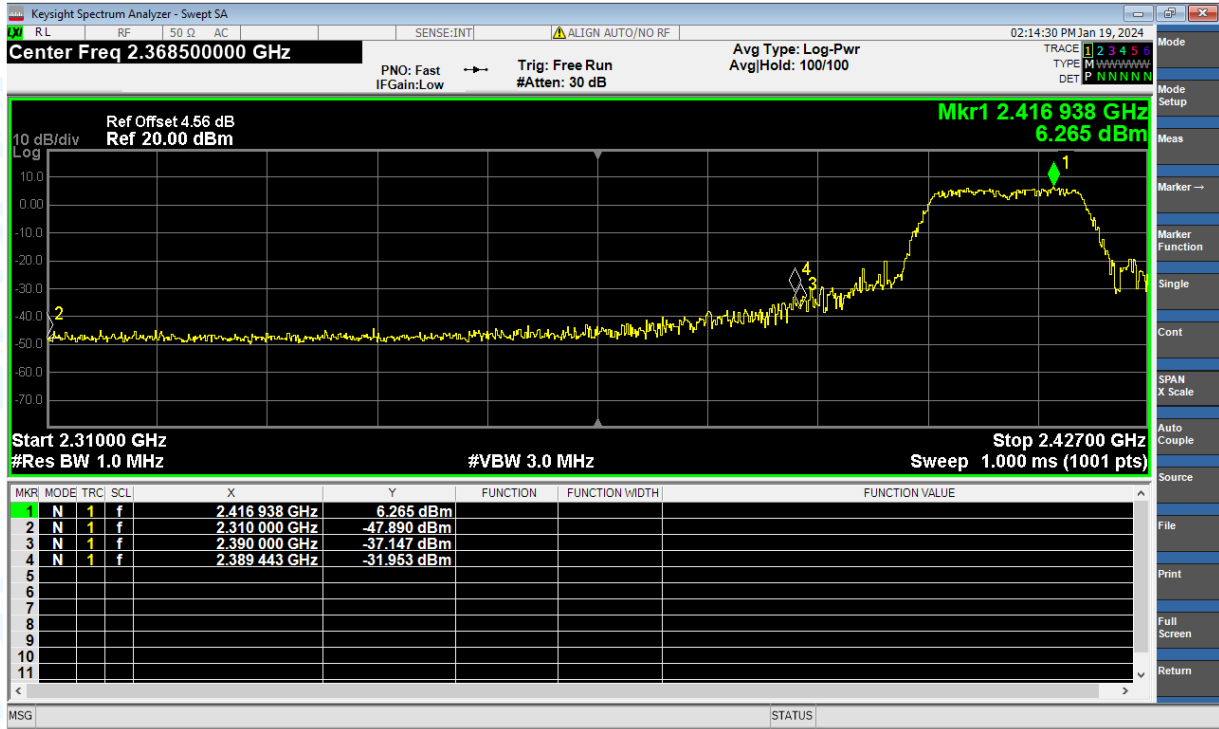
Restrict Band NVNT b 2462MHz Ant1 Peak



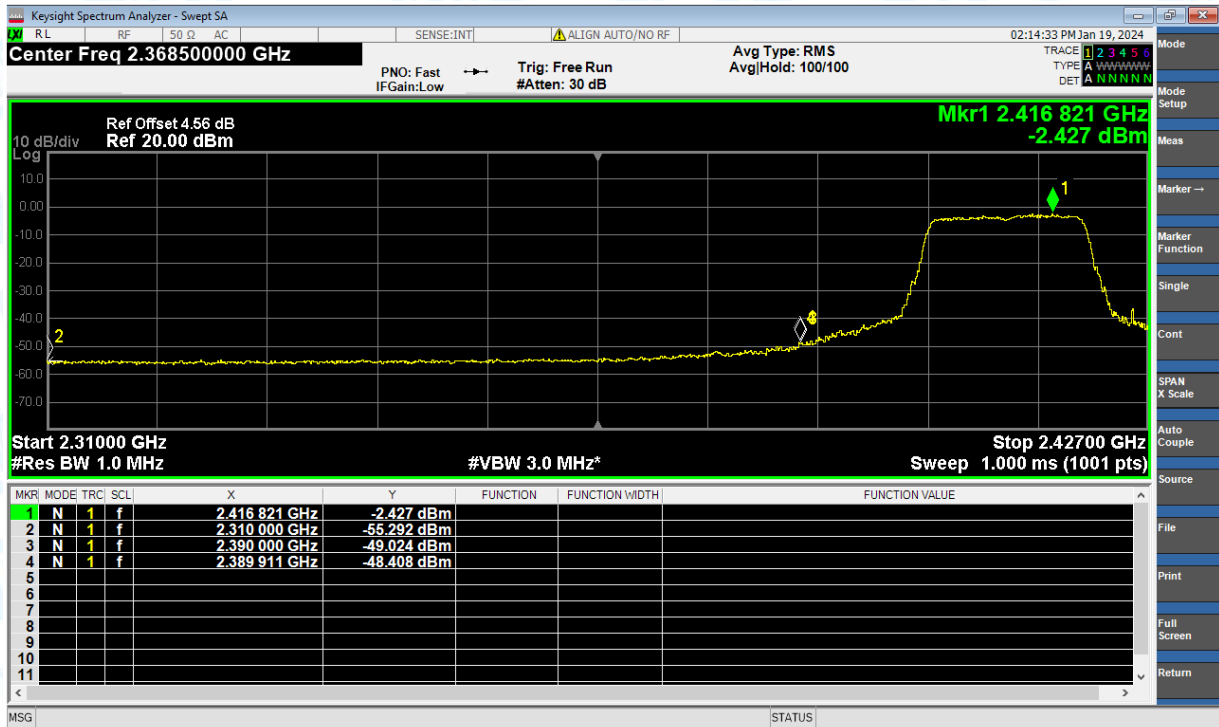
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Restrict Band NVNT g 2412MHz Ant1 Peak



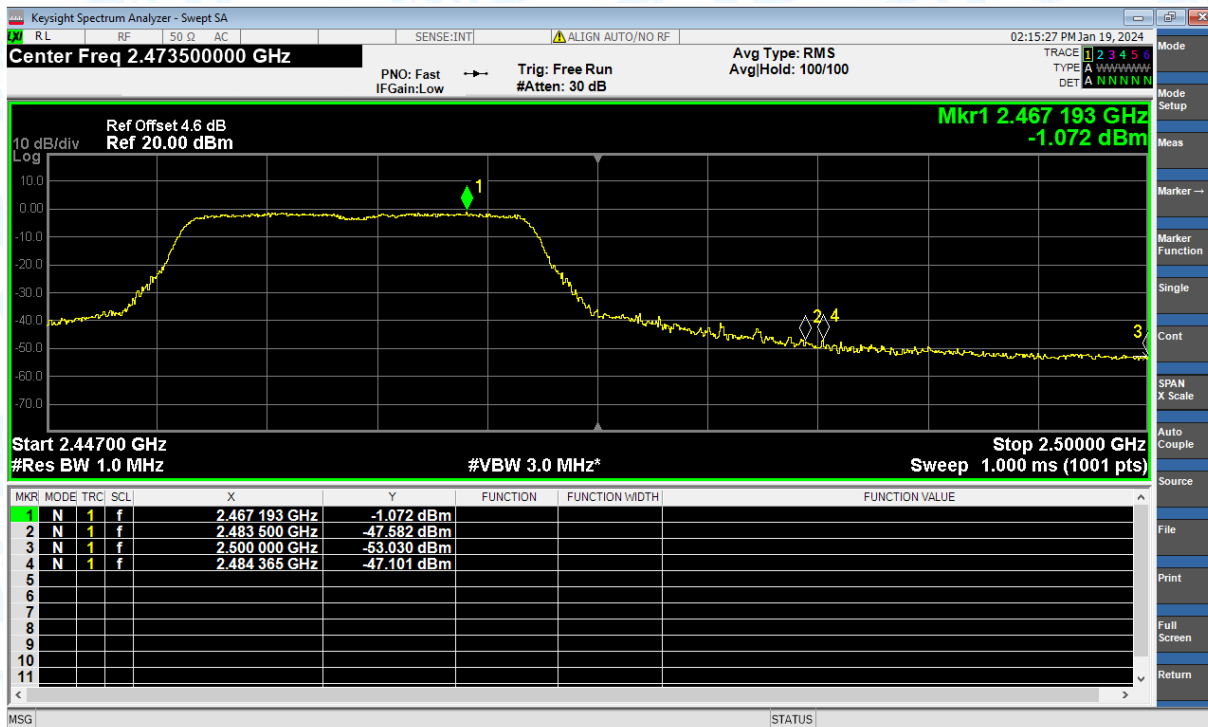
Restrict Band NVNT g 2412MHz Ant1 Average



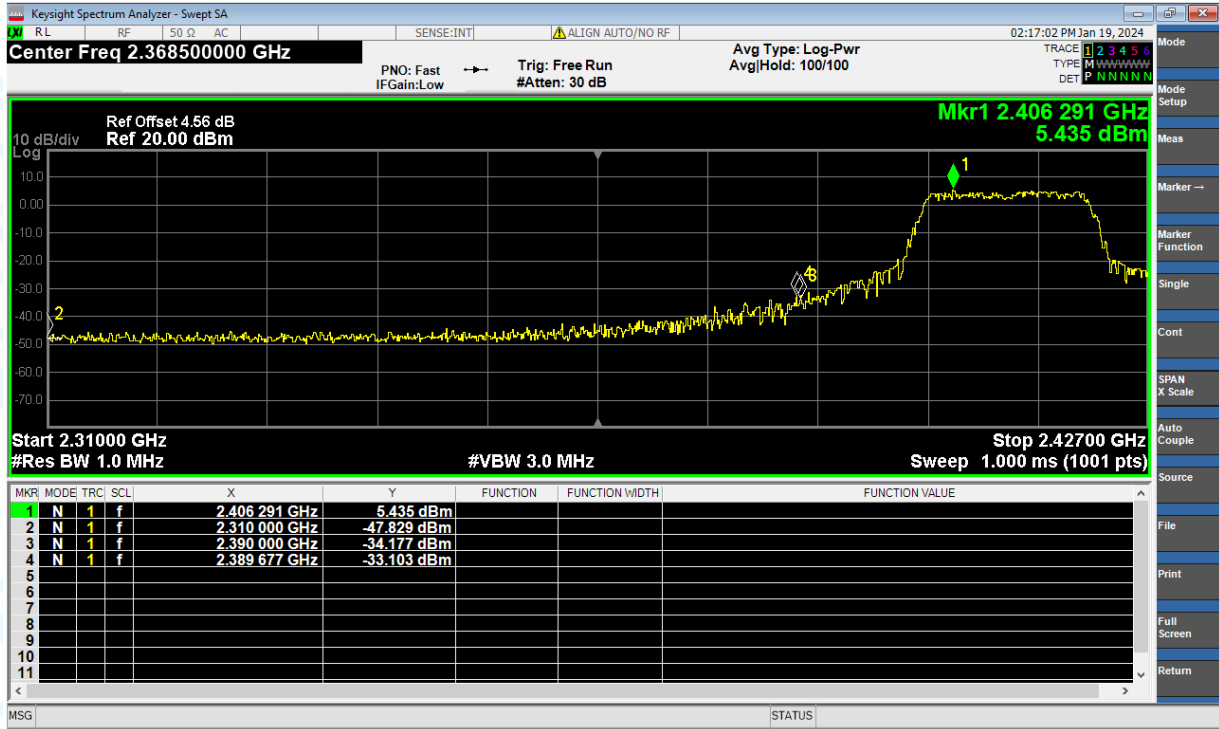
Restrict Band NVNT g 2462MHz Ant1 Peak



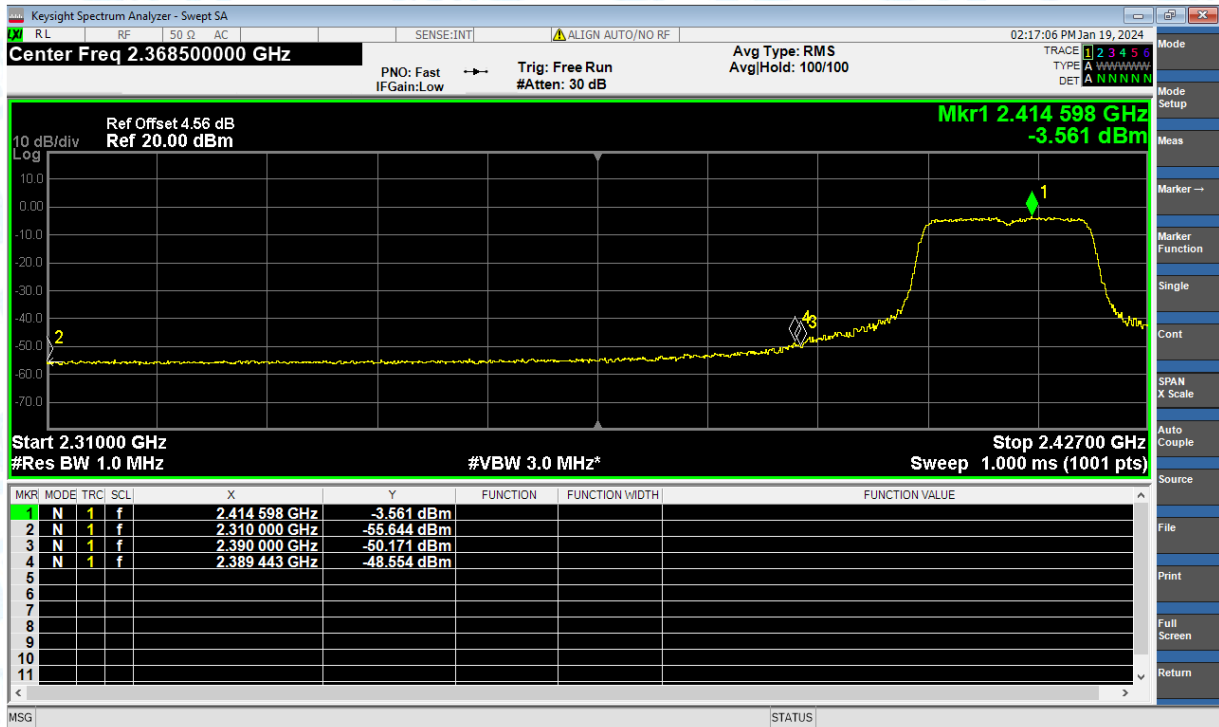
Restrict Band NVNT g 2462MHz Ant1 Average



Restrict Band NVNT n(HT20) 2412MHz Ant1 Peak



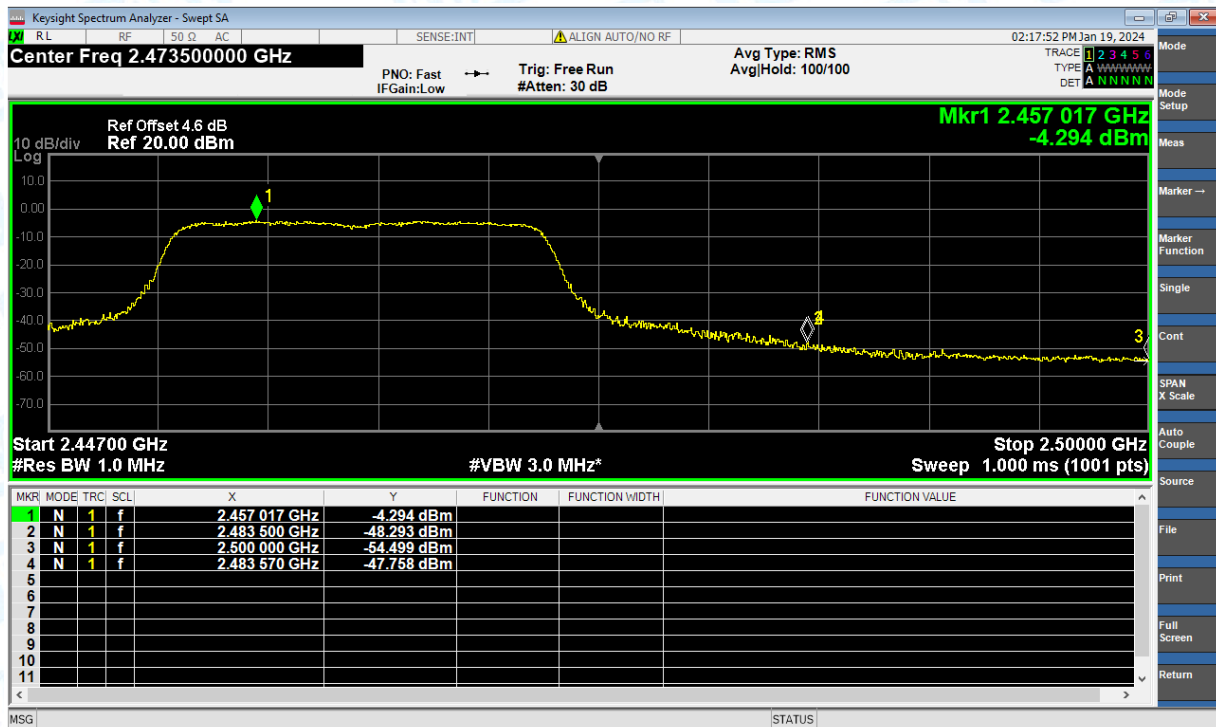
Restrict Band NVNT n(HT20) 2412MHz Ant1 Average



Restrict Band NVNT n(HT20) 2462MHz Ant1 Peak



Restrict Band NVNT n(HT20) 2462MHz Ant1 Average



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