



Appendix A

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Thermal Imaging Scope

Test Model: DOT-Q25

Environmental Conditions

Temperature:	23.7°C
Relative Humidity:	54.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Faith Li
Supervised by:	Can Kun





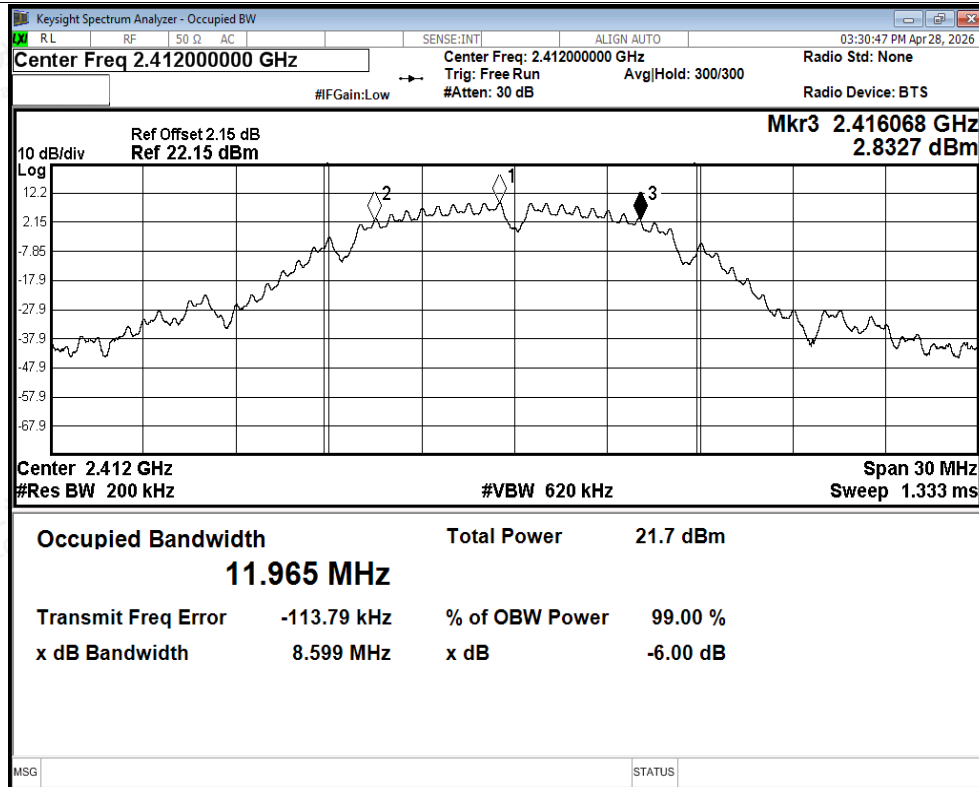
A.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	8.599	0.5	Pass
NVNT	b	2437	Ant1	8.13	0.5	Pass
NVNT	b	2462	Ant1	8.138	0.5	Pass
NVNT	g	2412	Ant1	16.35	0.5	Pass
NVNT	g	2437	Ant1	16.3	0.5	Pass
NVNT	g	2462	Ant1	16.32	0.5	Pass

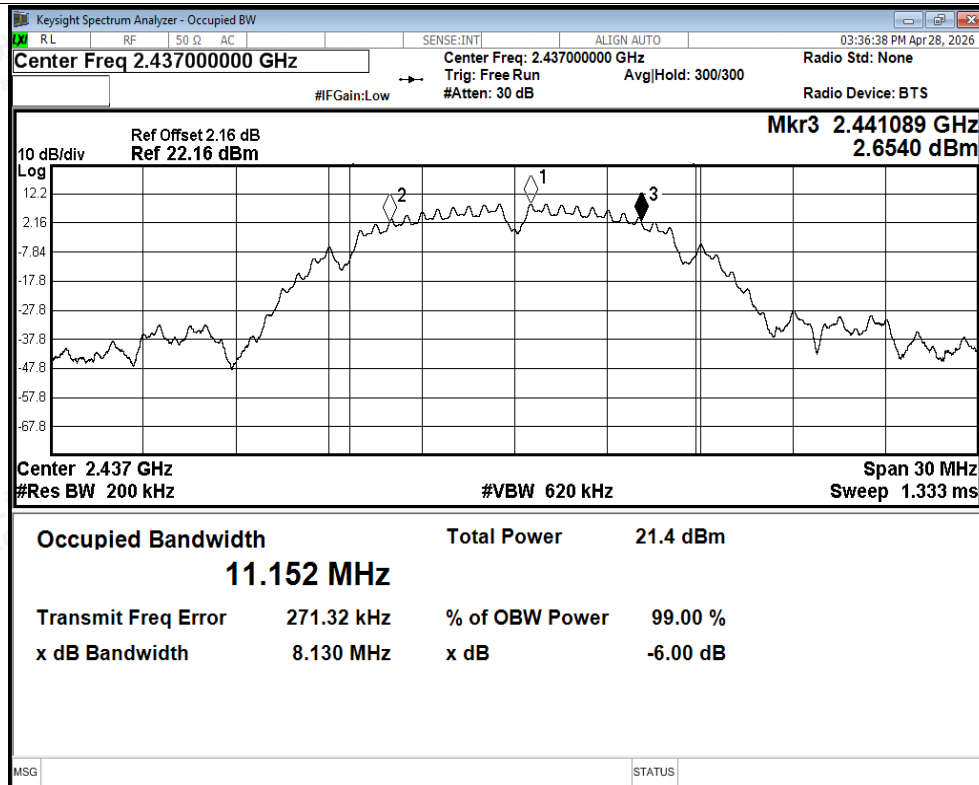
Note: offset=System attenuation +cabel loss



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-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1

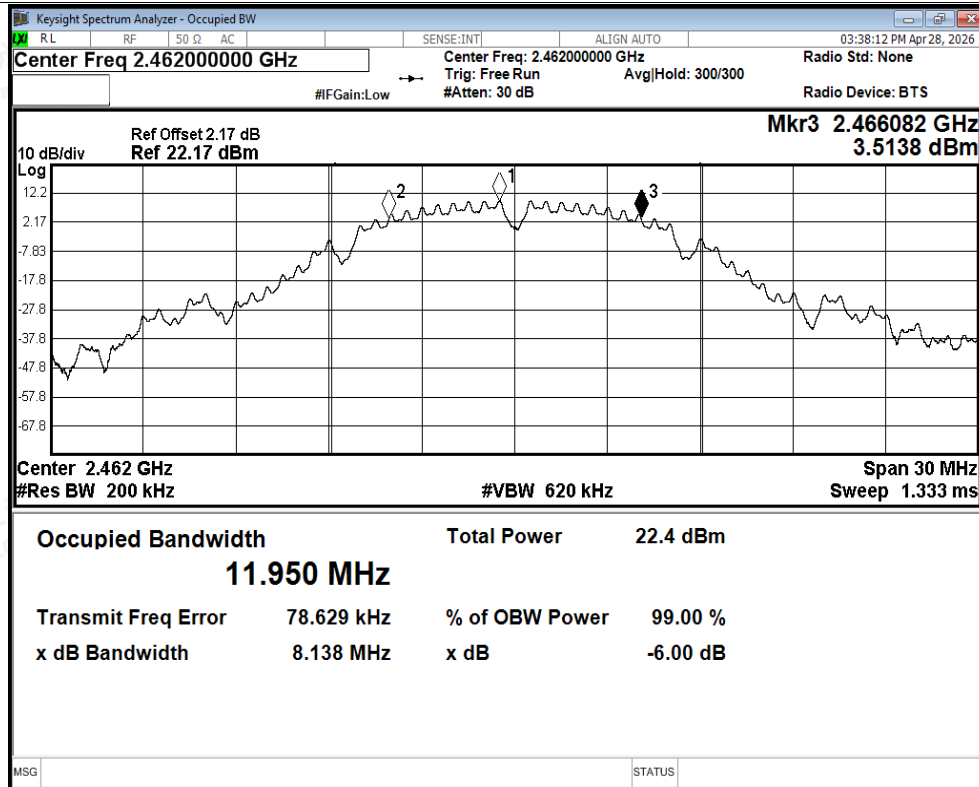


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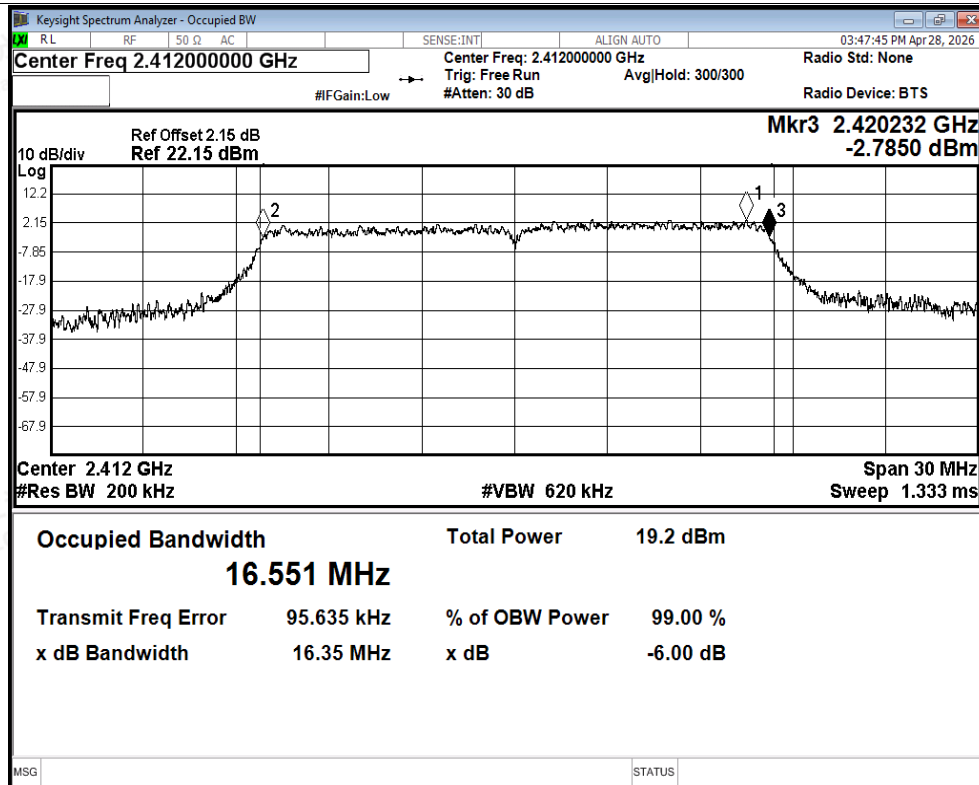
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-6dB Bandwidth NVNT b 2462MHz Ant1



-6dB Bandwidth NVNT g 2412MHz Ant1

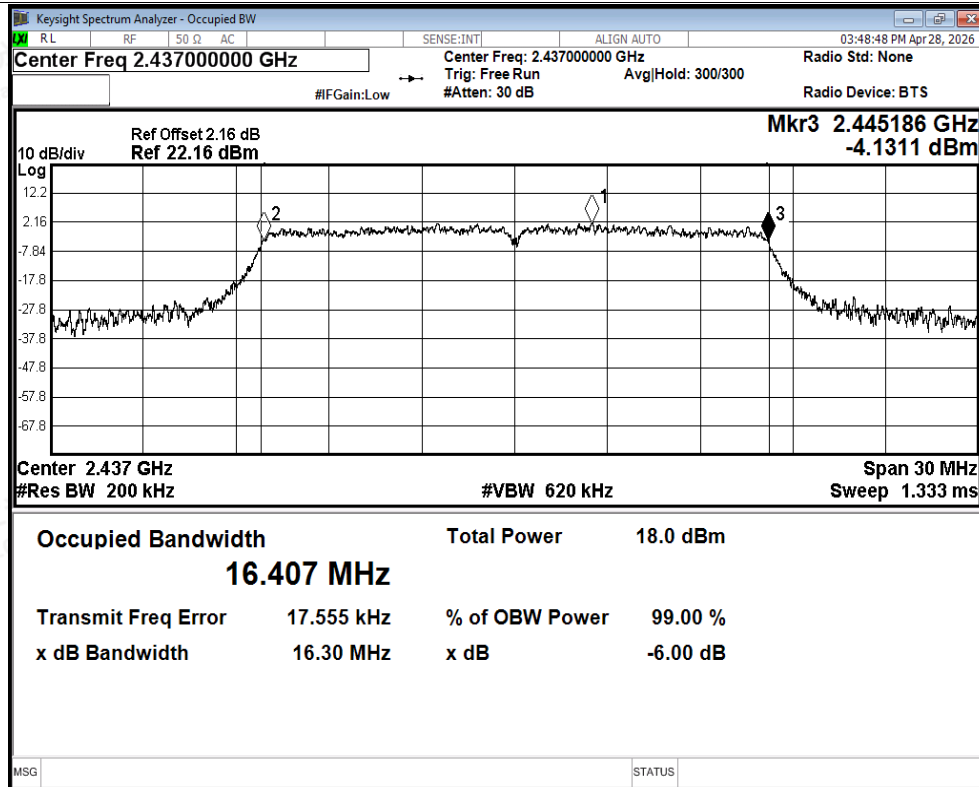


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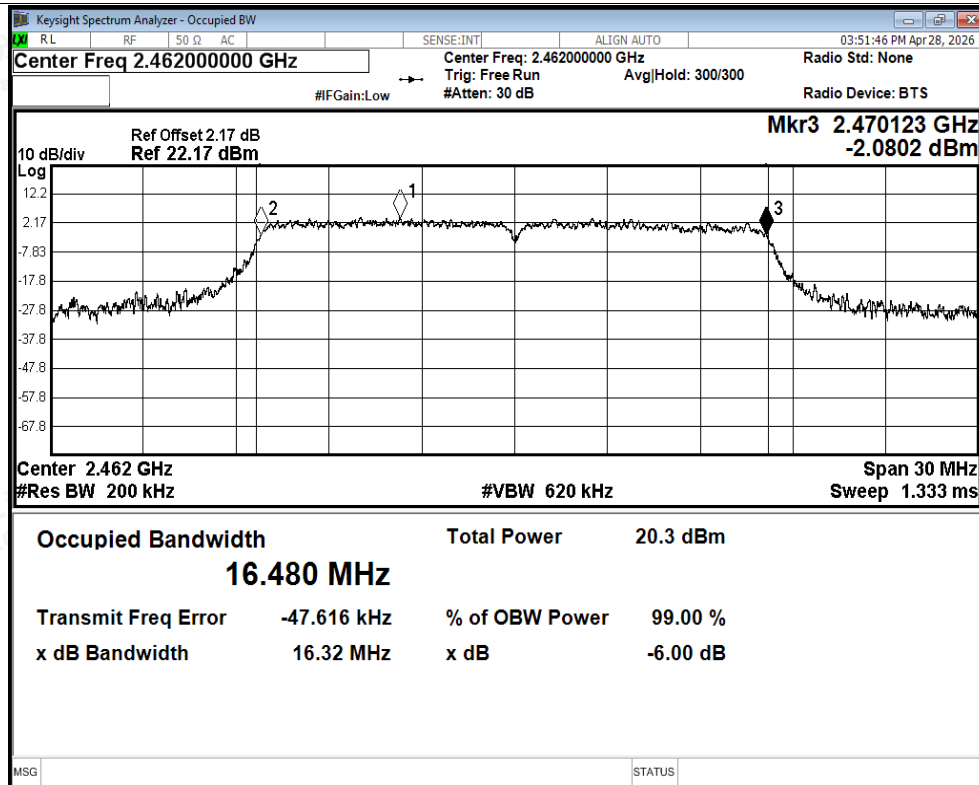
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-6dB Bandwidth NVNT g 2437MHz Ant1



-6dB Bandwidth NVNT g 2462MHz Ant1



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A.2 Maximum Average Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Limit Conducted(dBm)	Verdict
NVNT	b	2412	Ant1	16.75	0.03	16.78	30	Pass
NVNT	b	2437	Ant1	16.45	0	16.45	30	Pass
NVNT	b	2462	Ant1	17.48	0.03	17.51	30	Pass
NVNT	g	2412	Ant1	12.77	0.19	12.96	30	Pass
NVNT	g	2437	Ant1	12.26	0.19	12.45	30	Pass
NVNT	g	2462	Ant1	12.41	0.19	12.6	30	Pass

Note: offset=System attenuation +cable loss



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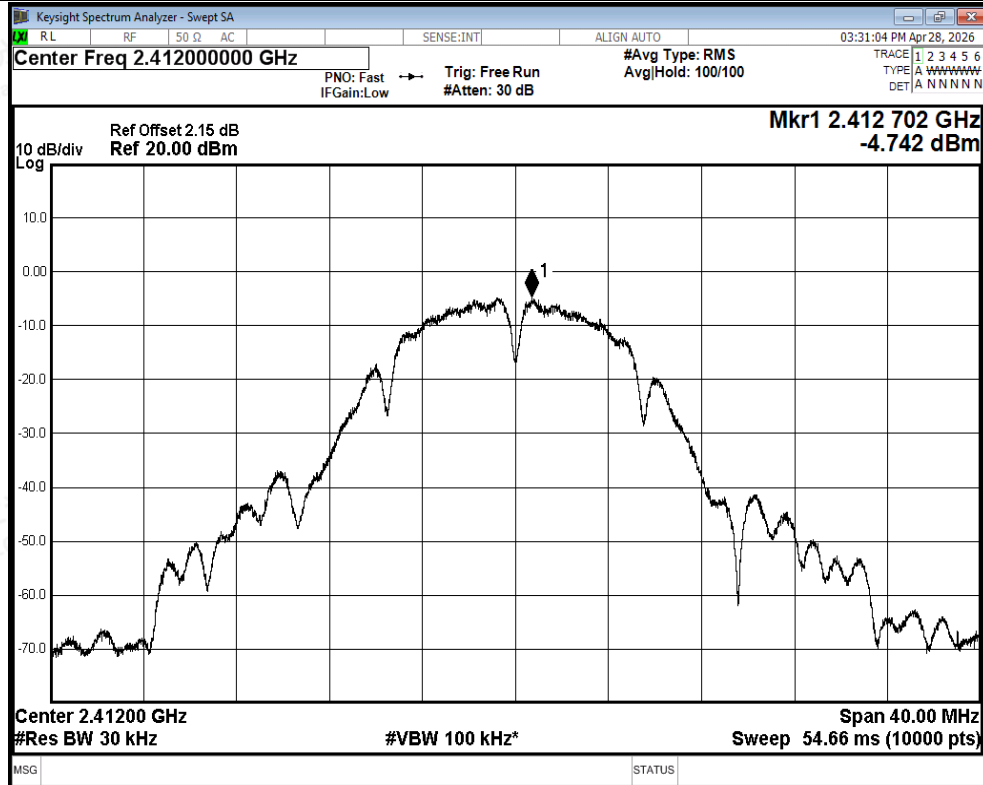
A.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/30kHz)	Duty Factor (dB)	Total PSD (dBm/30kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-4.74	0.03	-4.71	8	Pass
NVNT	b	2437	Ant1	-4.92	0	-4.92	8	Pass
NVNT	b	2462	Ant1	-3.85	0.03	-3.82	8	Pass
NVNT	g	2412	Ant1	-10.85	0.19	-10.66	8	Pass
NVNT	g	2437	Ant1	-11.52	0.19	-11.33	8	Pass
NVNT	g	2462	Ant1	-11.28	0.19	-11.09	8	Pass

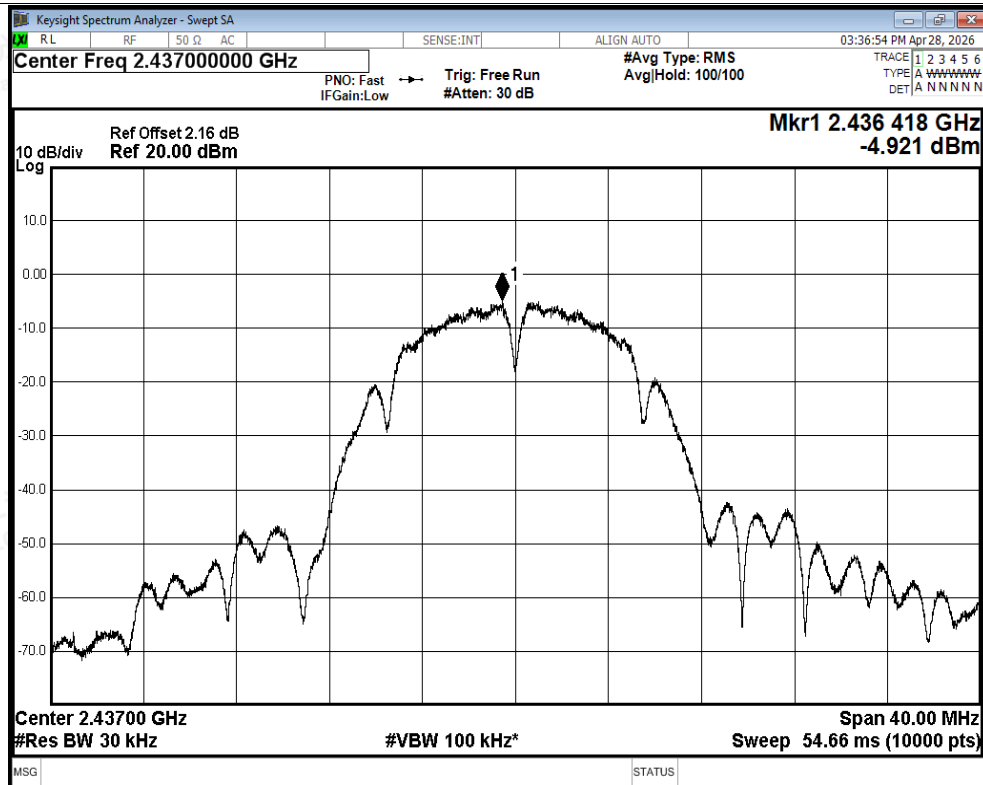
Note: offset=System attenuation +cable loss



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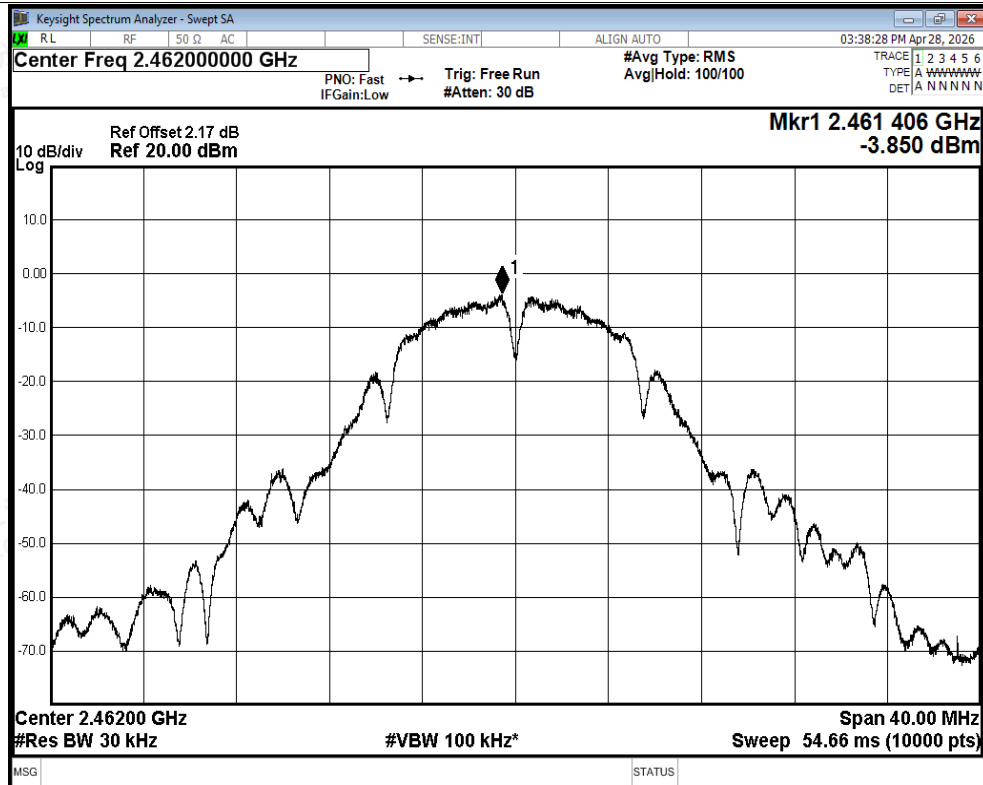


PSD NVNT b 2412MHz Ant1

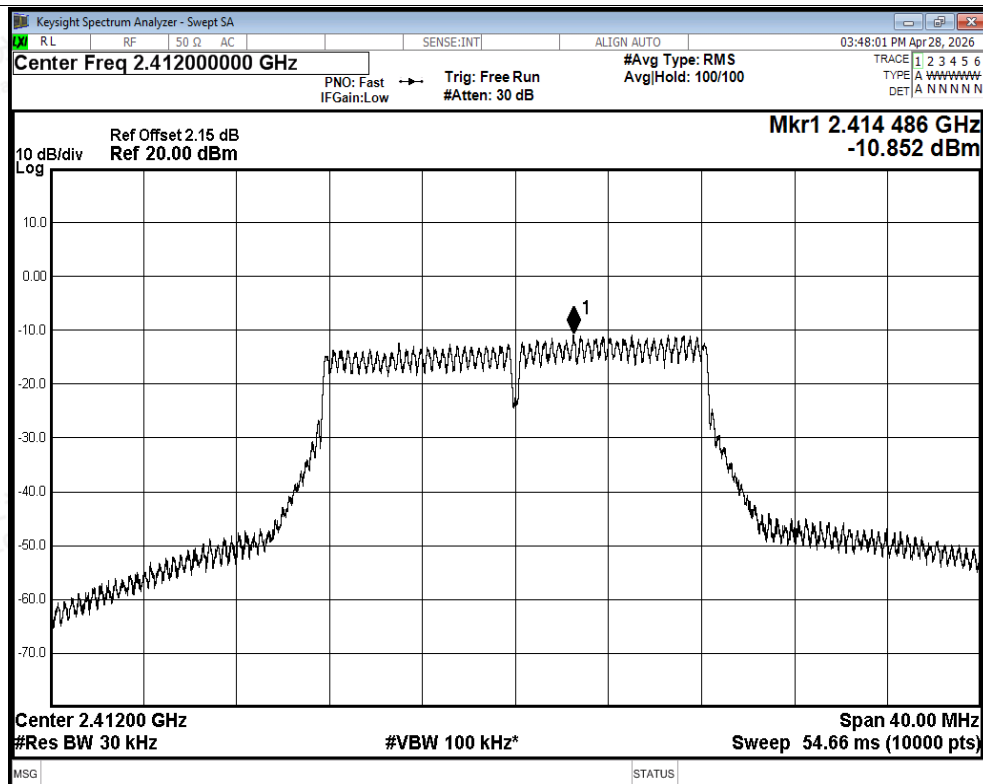


PSD NVNT b 2437MHz Ant1



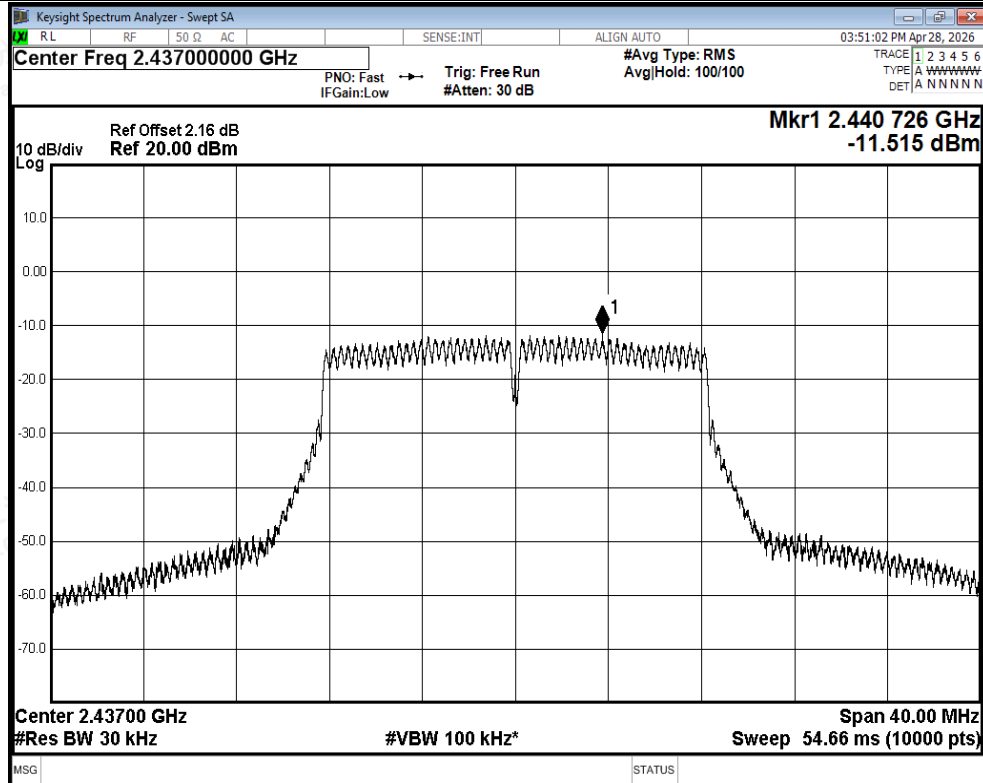


PSD NVNT b 2462MHz Ant1

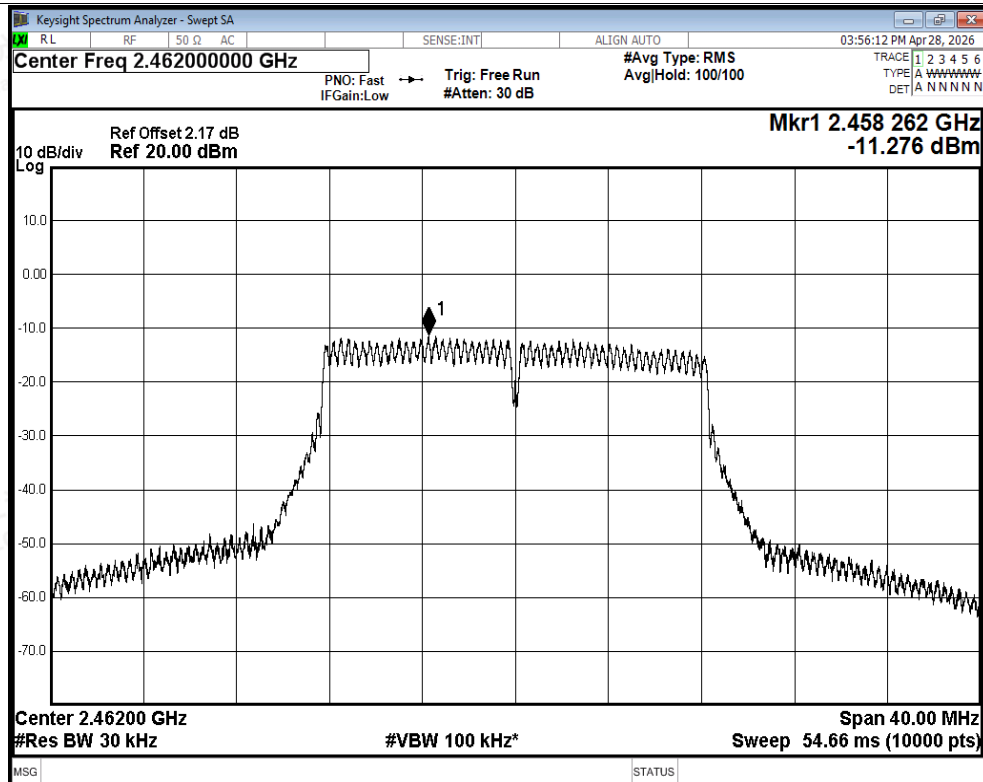


PSD NVNT g 2412MHz Ant1





PSD NVNT g 2437MHz Ant1



PSD NVNT g 2462MHz Ant1





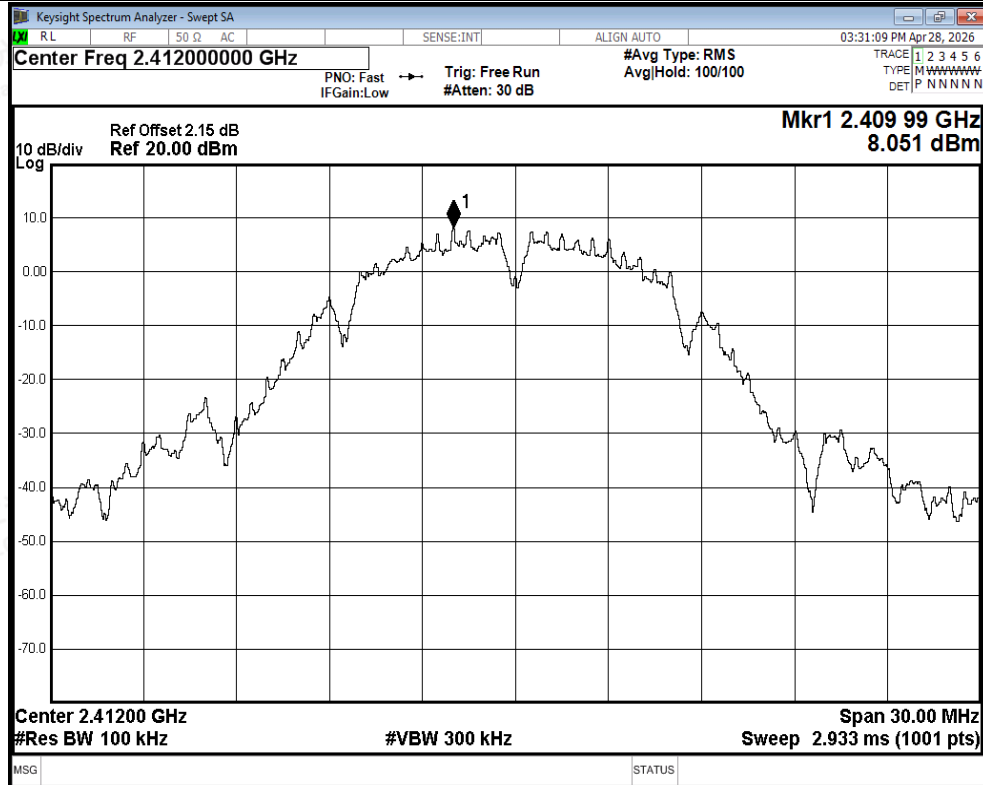
A.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-40.86	-30	Pass
NVNT	b	2462	Ant1	-64.57	-30	Pass
NVNT	g	2412	Ant1	-31.82	-30	Pass
NVNT	g	2462	Ant1	-41.91	-30	Pass

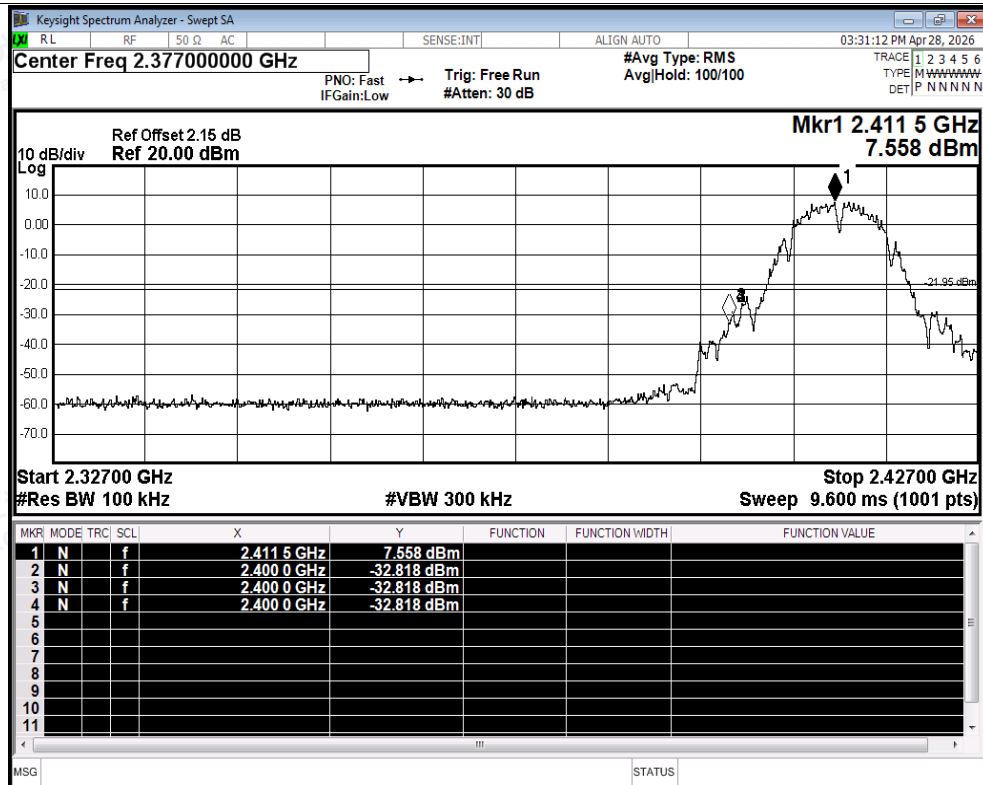
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Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission

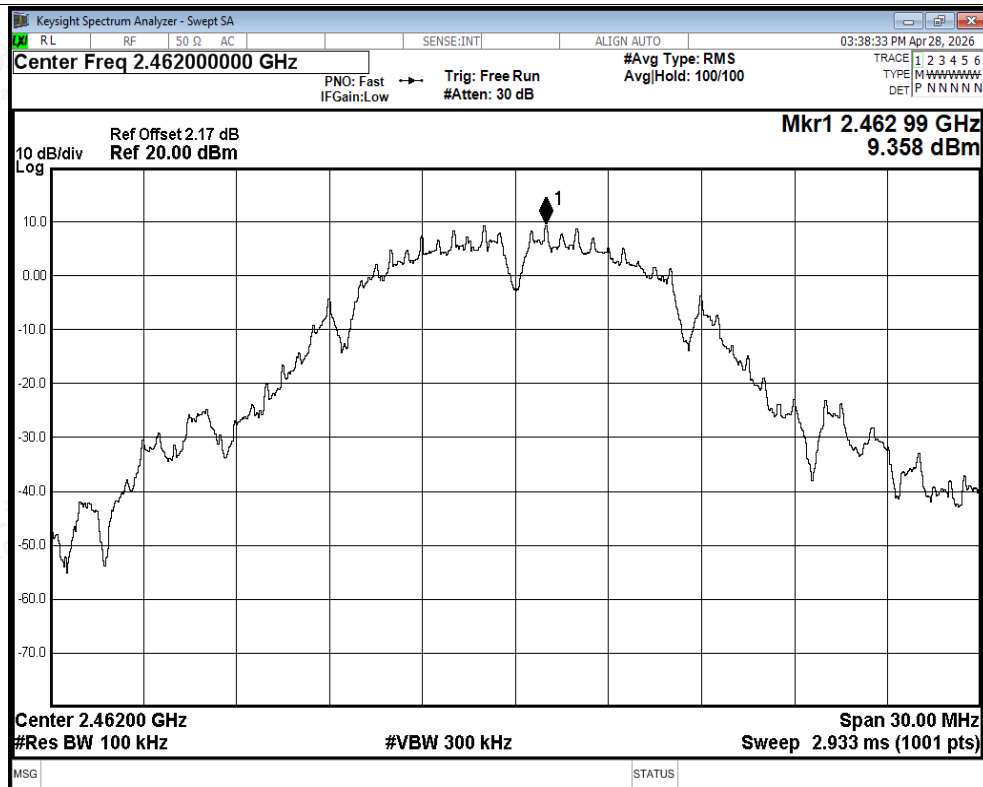


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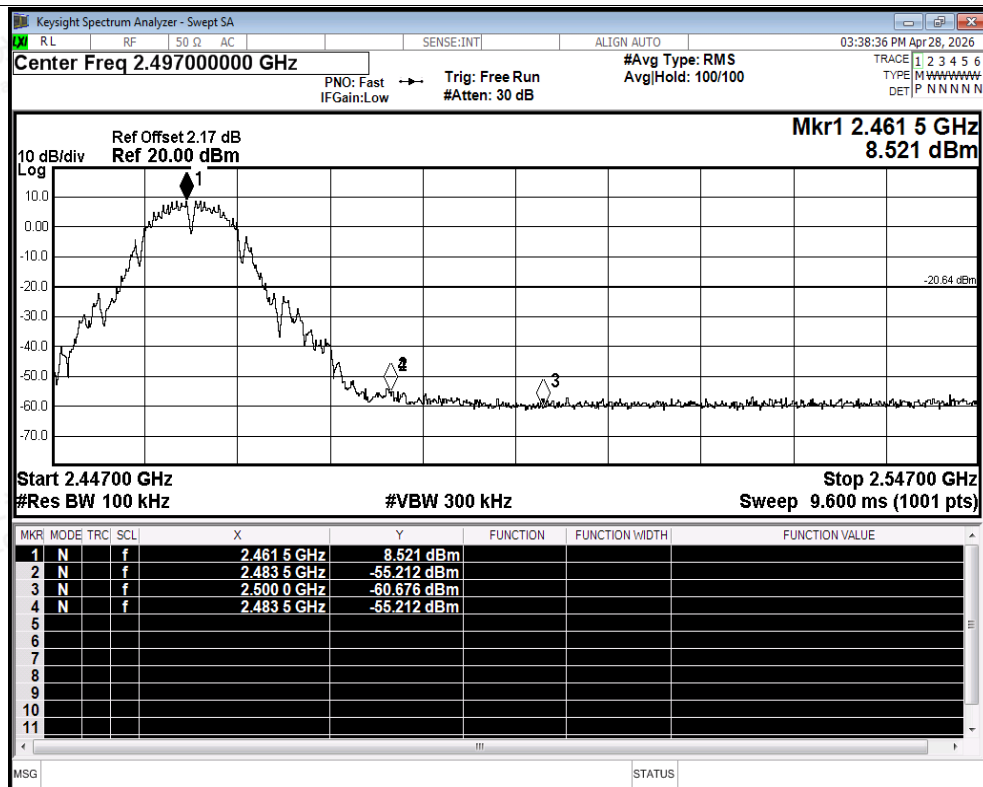
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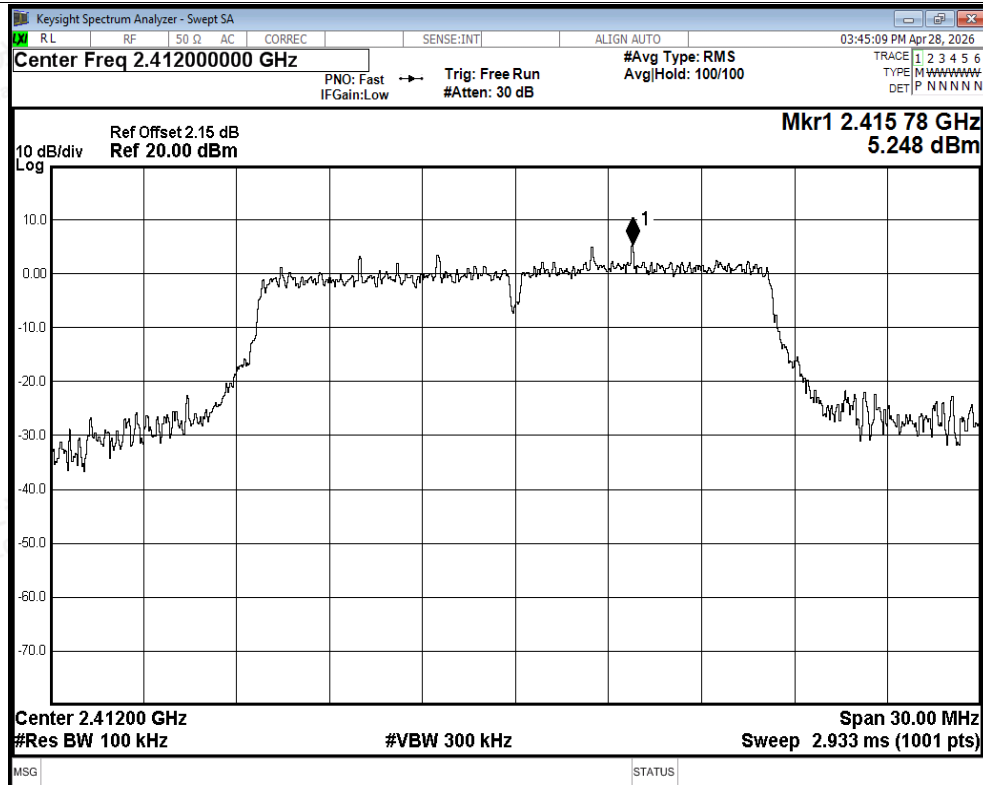


Band Edge NVNT b 2462MHz Ant1 Ref

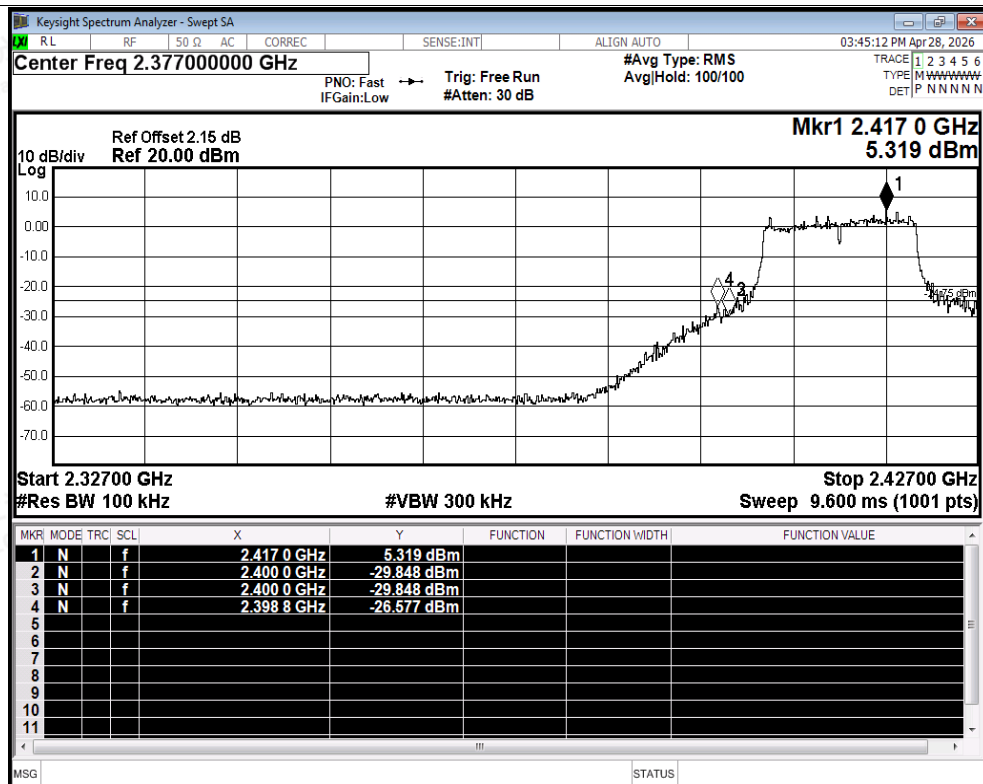


Band Edge NVNT b 2462MHz Ant1 Emission



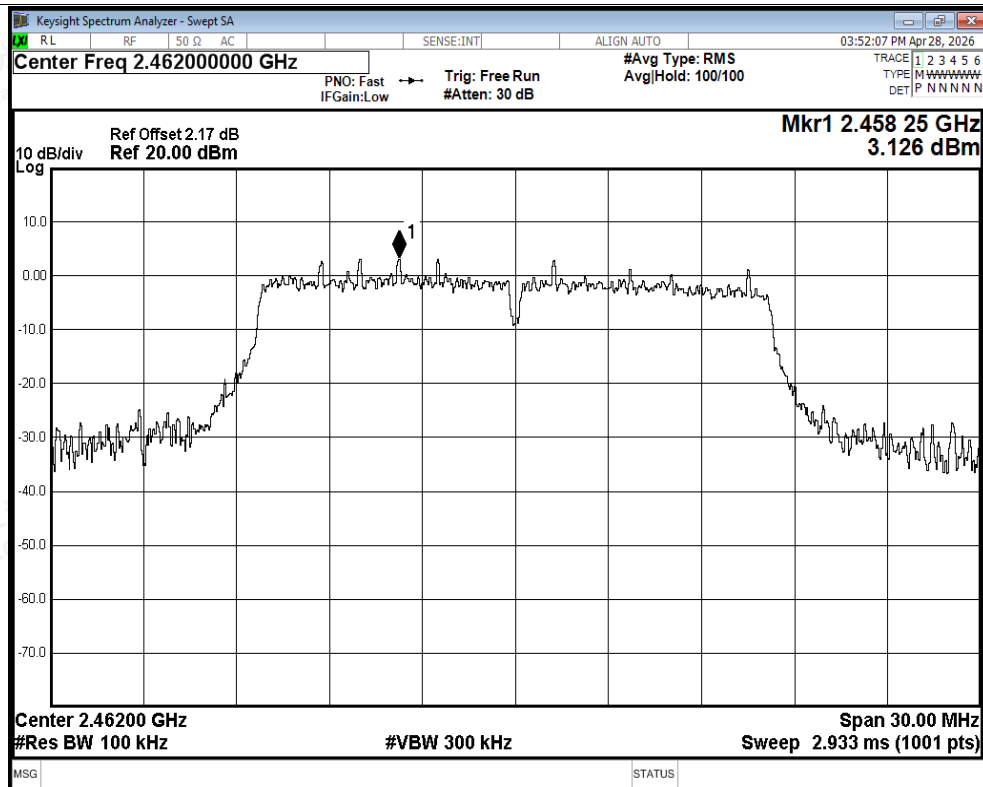


Band Edge NVNT g 2412MHz Ant1 Ref

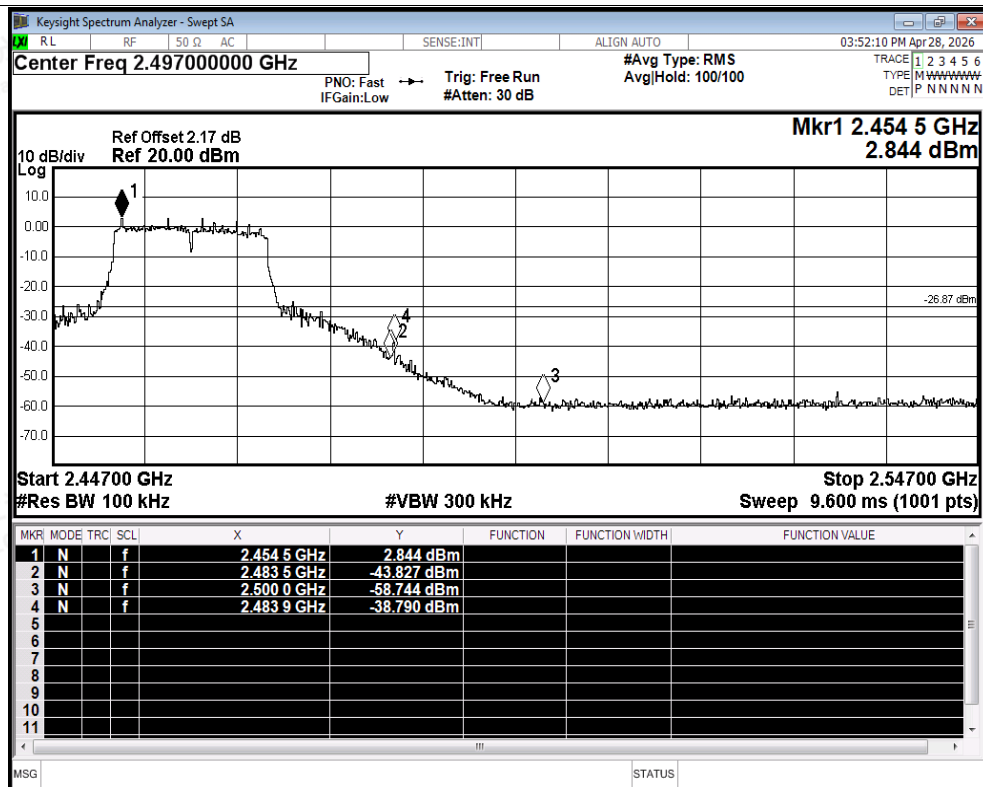


Band Edge NVNT g 2412MHz Ant1 Emission





Band Edge NVNT g 2462MHz Ant1 Ref



Band Edge NVNT g 2462MHz Ant1 Emission



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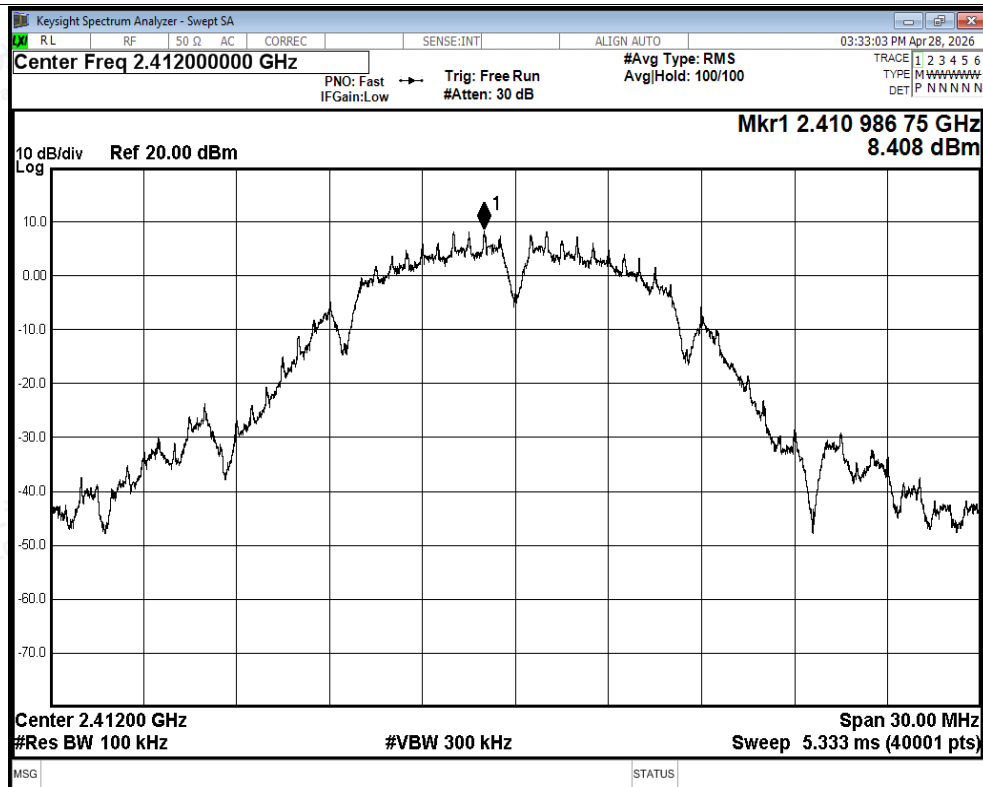
A.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-45.56	-30	Pass
NVNT	b	2437	Ant1	-45.07	-30	Pass
NVNT	b	2462	Ant1	-46.56	-30	Pass
NVNT	g	2412	Ant1	-40.26	-30	Pass
NVNT	g	2437	Ant1	-38.36	-30	Pass
NVNT	g	2462	Ant1	-41.55	-30	Pass

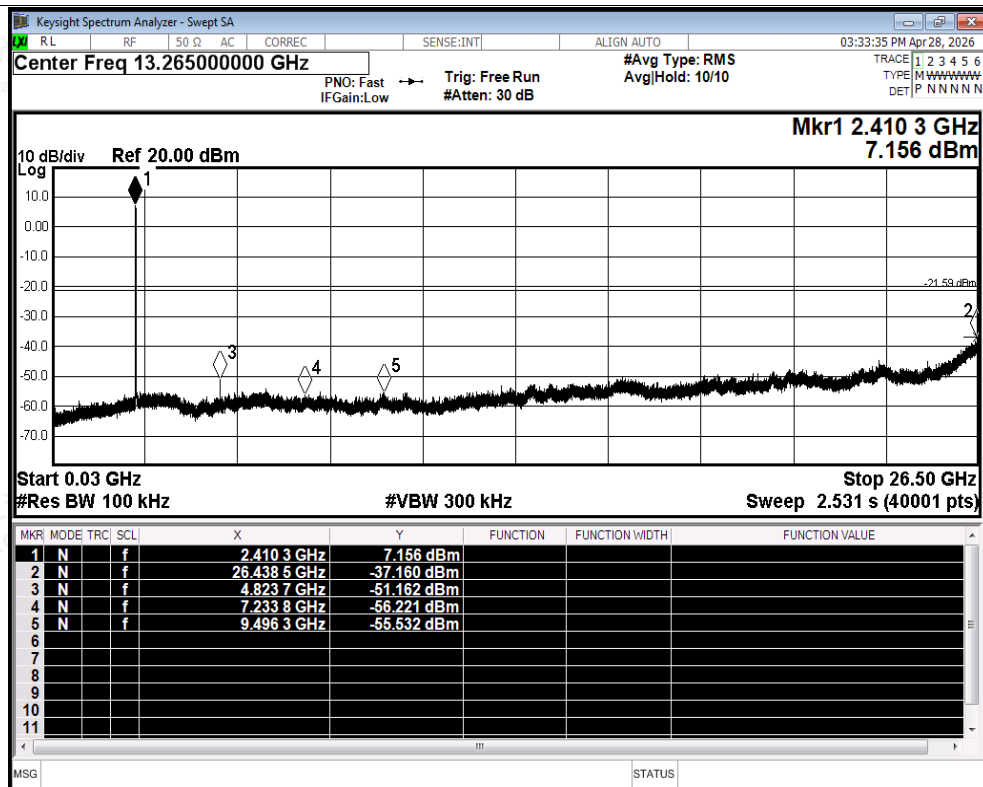
Note: Regarding the spurious emissions from 30MHz to 26.5GHz, the cable loss have been set in the CORREC' of the Spectrum

Analyzer during the test.



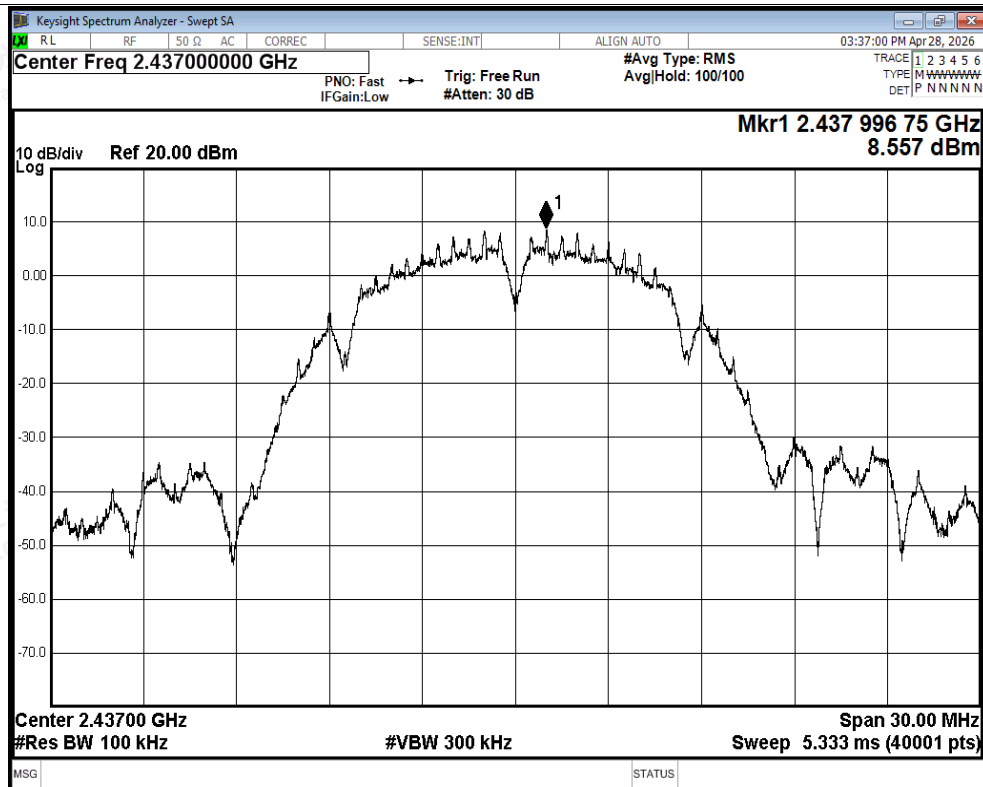


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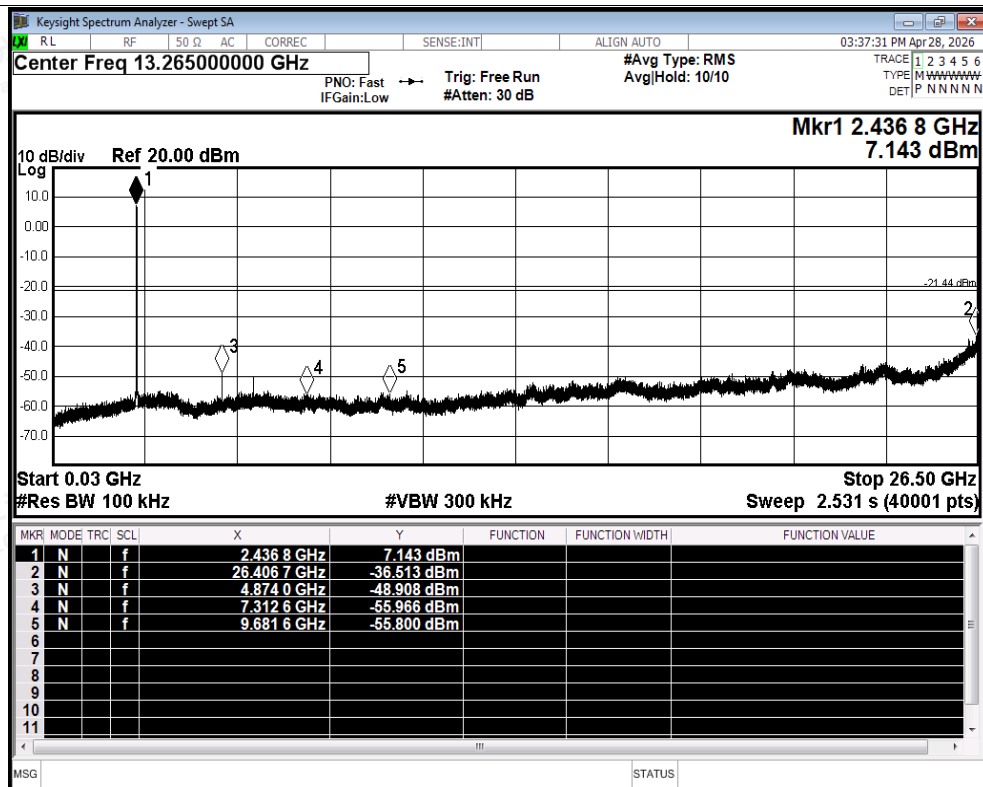


Tx. Spurious NVNT b 2412MHz Ant1 Emission



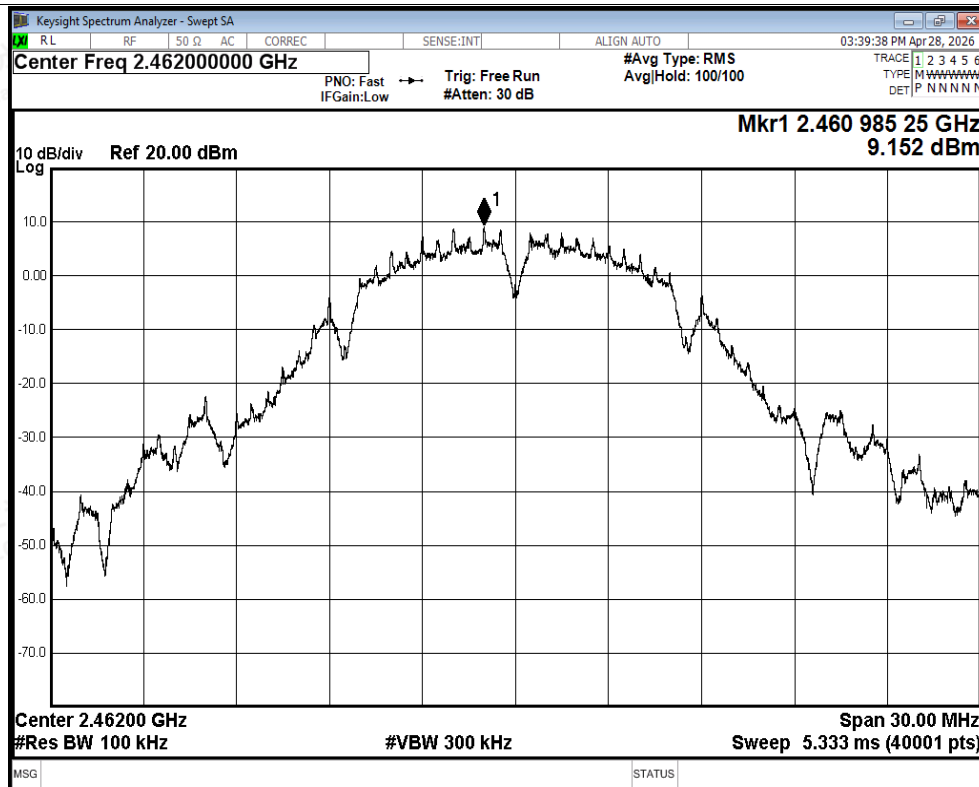


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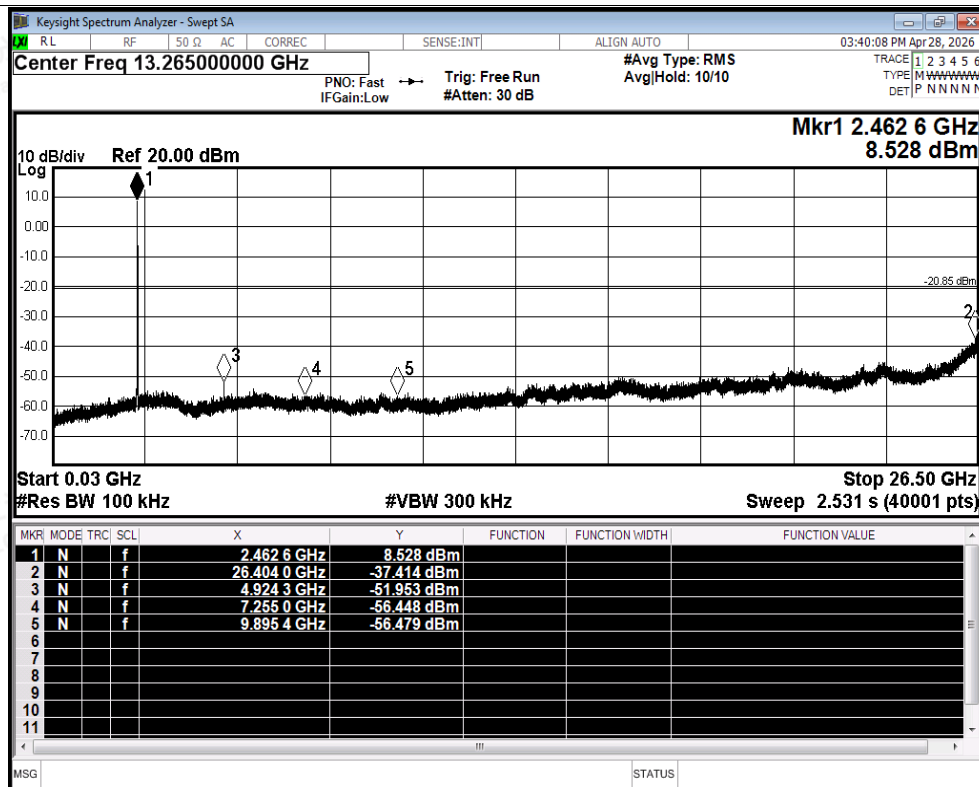


Tx. Spurious NVNT b 2437MHz Ant1 Emission



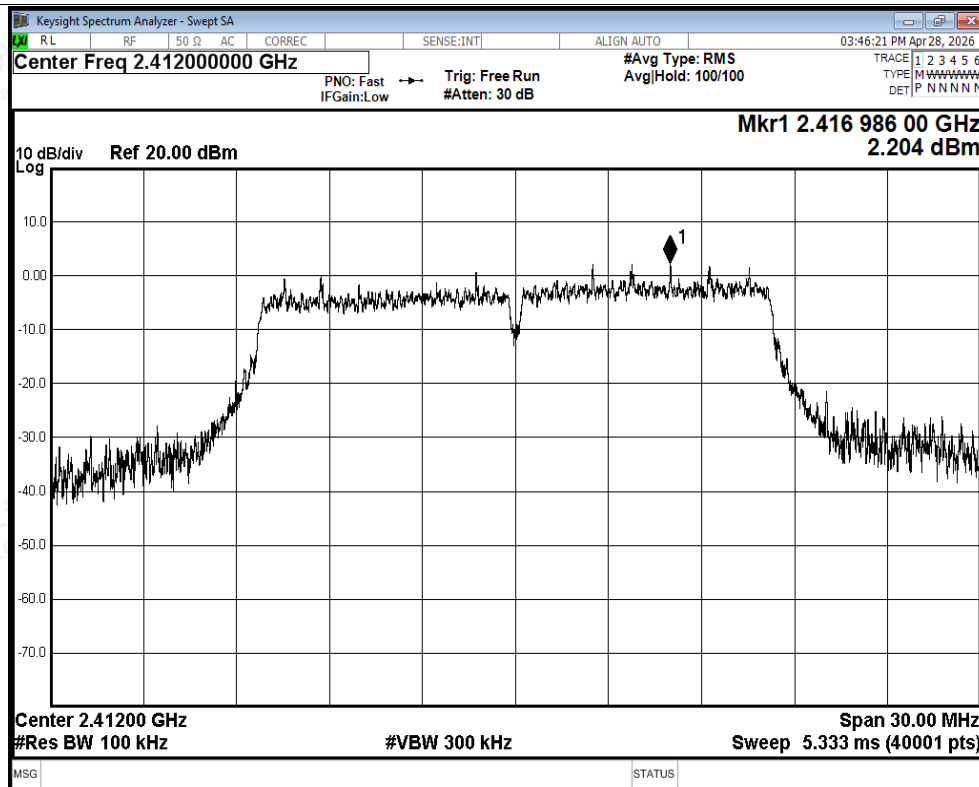


Tx. Spurious NVNT b 2462MHz Ant1 Ref

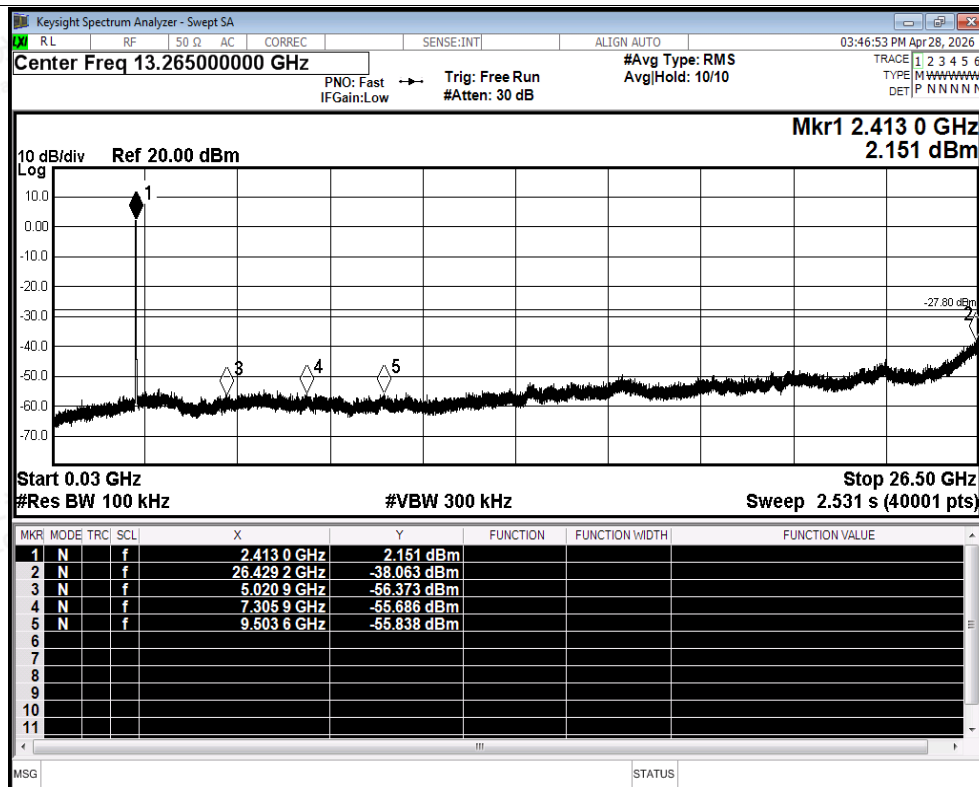


Tx. Spurious NVNT b 2462MHz Ant1 Emission



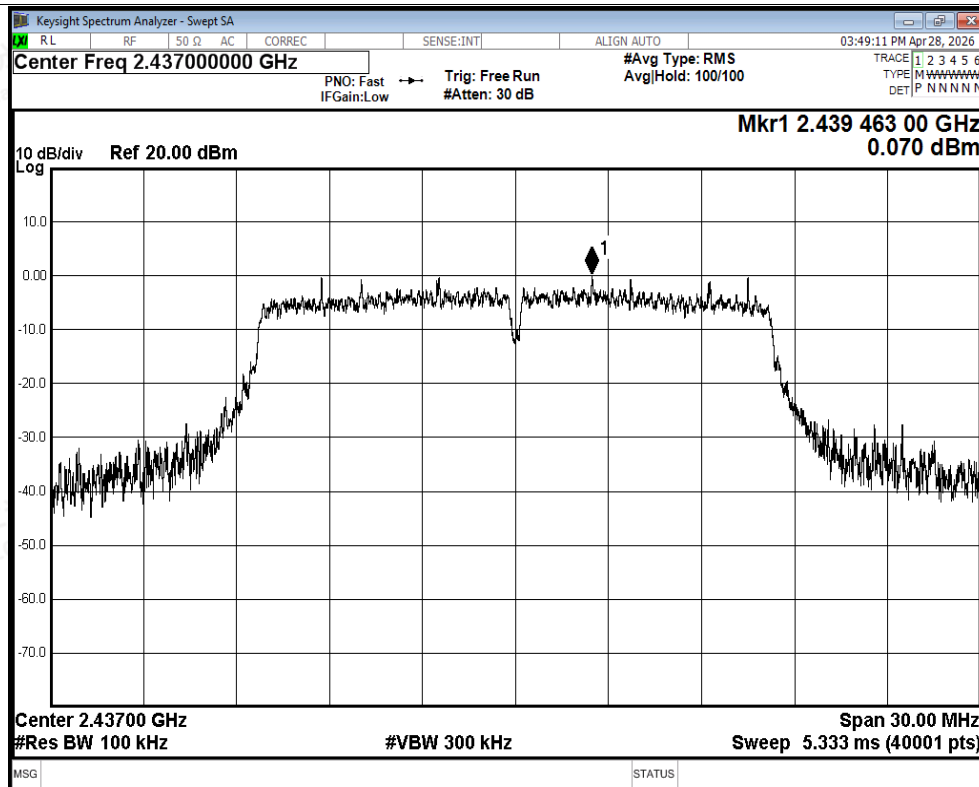


Tx. Spurious NVNT g 2412MHz Ant1 Ref

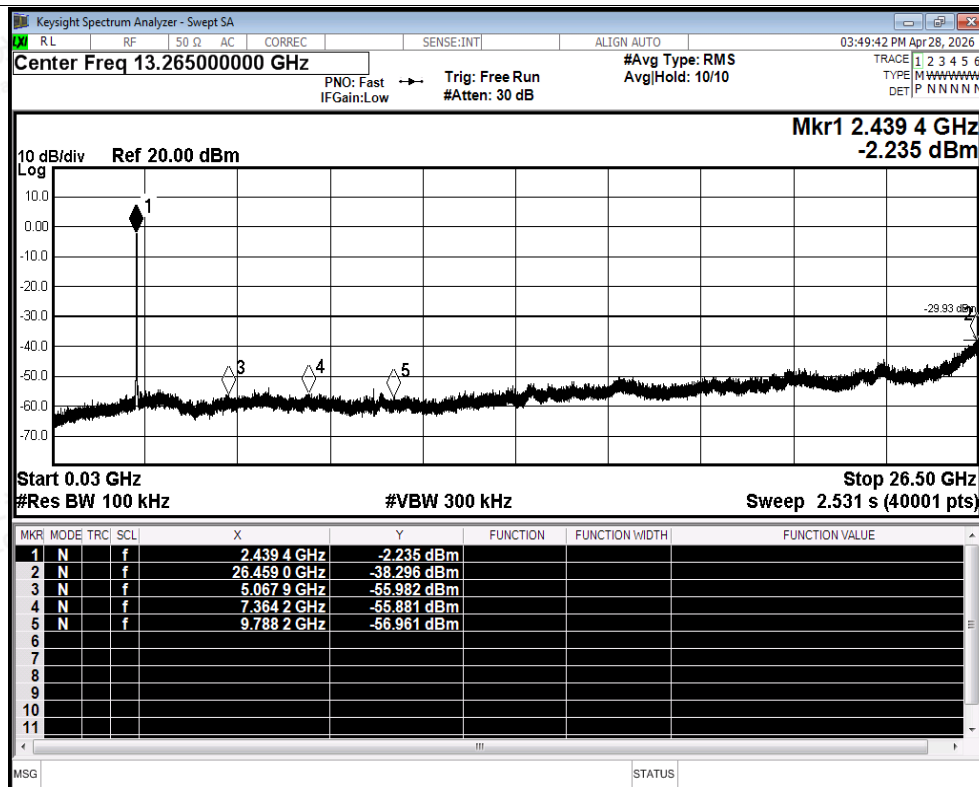


Tx. Spurious NVNT g 2412MHz Ant1 Emission



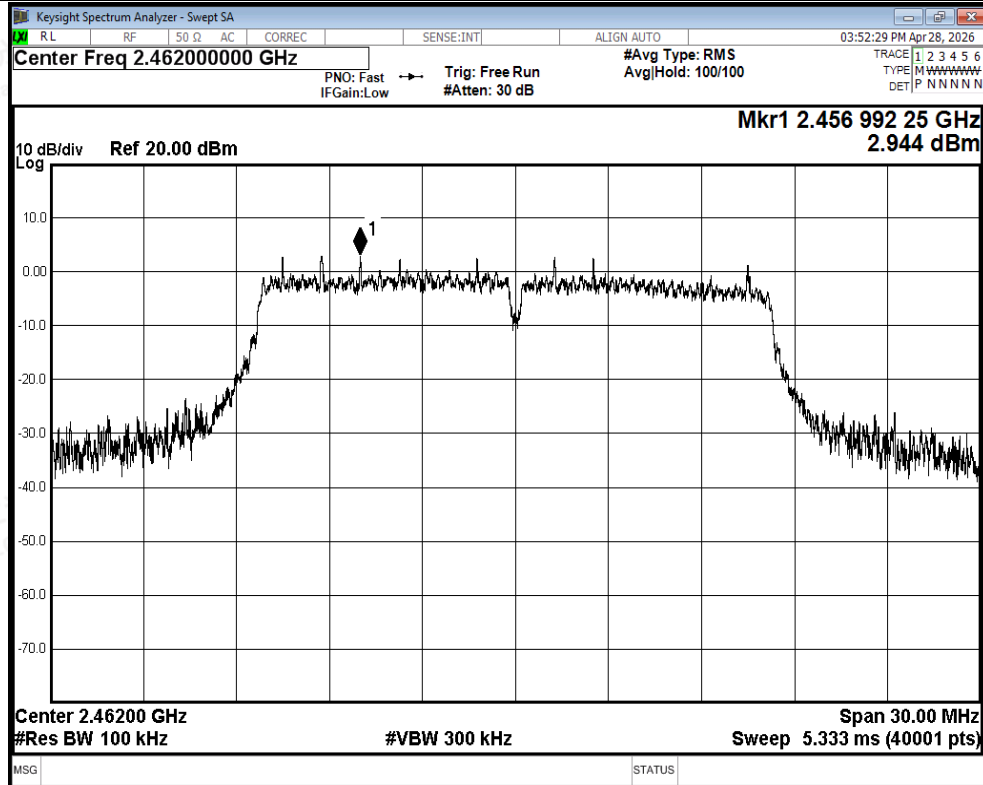


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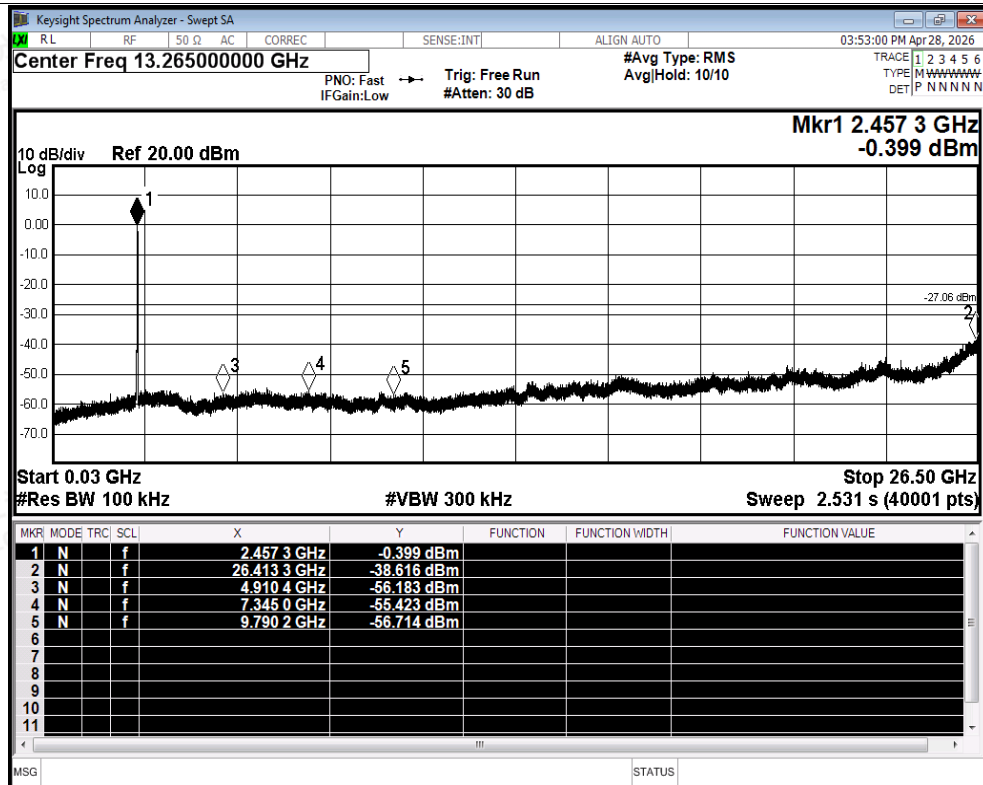


Tx. Spurious NVNT g 2437MHz Ant1 Emission





Tx. Spurious NVNT g 2462MHz Ant1 Ref



Tx. Spurious NVNT g 2462MHz Ant1 Emission



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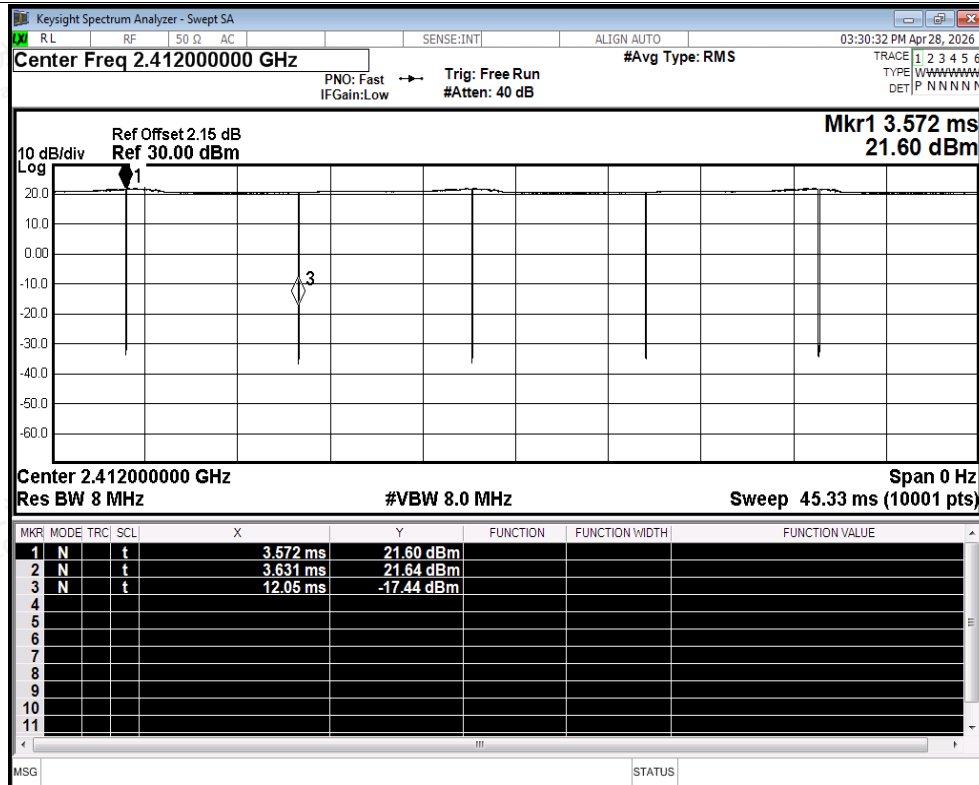
A.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.3	0.03	0.12
NVNT	b	2437	Ant1	99.89	0	0.12
NVNT	b	2462	Ant1	99.36	0.03	0.12
NVNT	g	2412	Ant1	95.75	0.19	0.72
NVNT	g	2437	Ant1	95.75	0.19	0.72
NVNT	g	2462	Ant1	95.62	0.19	0.72

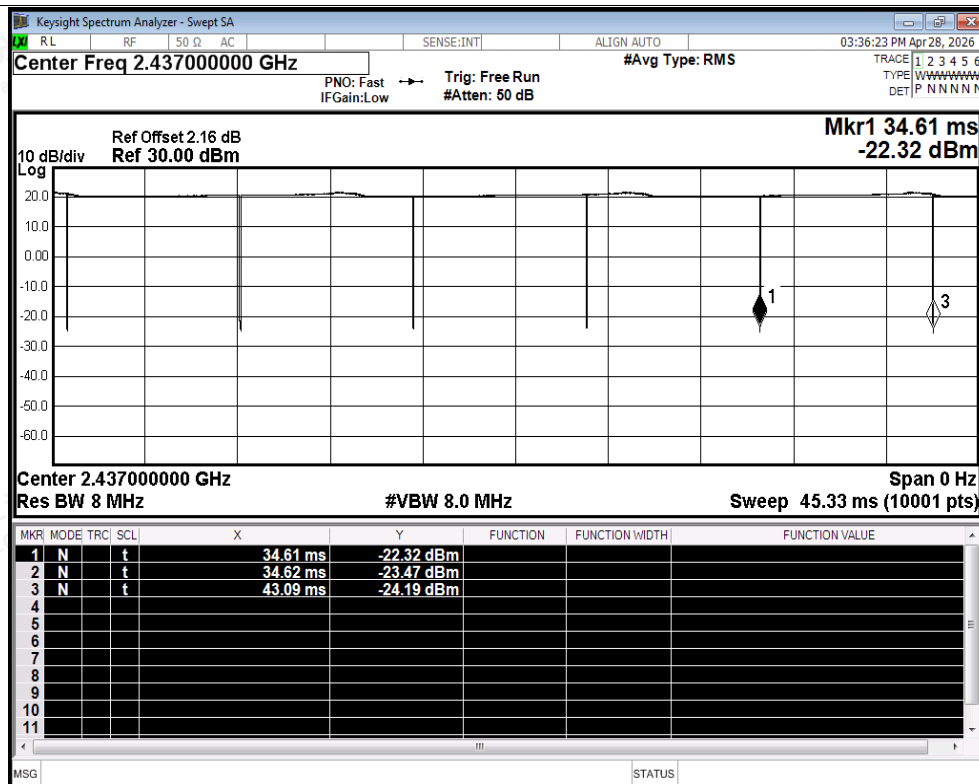
Note: offset=System attenuation +cabal loss



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Duty Cycle NVNT b 2412MHz Ant1



Duty Cycle NVNT b 2437MHz Ant1

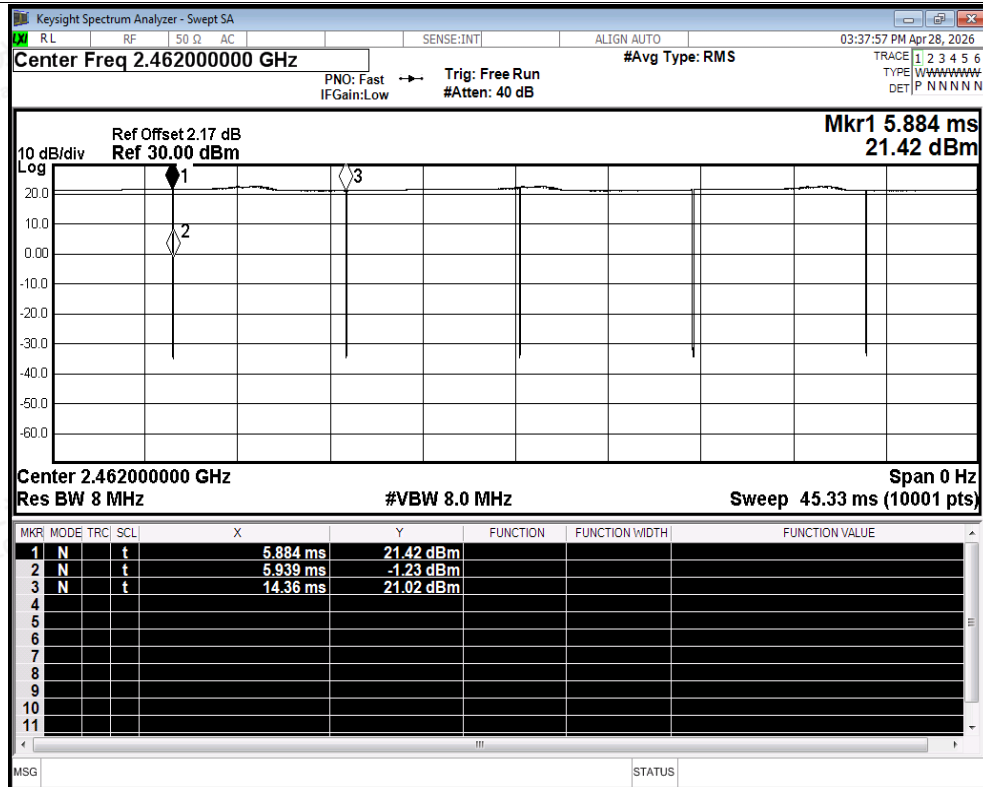


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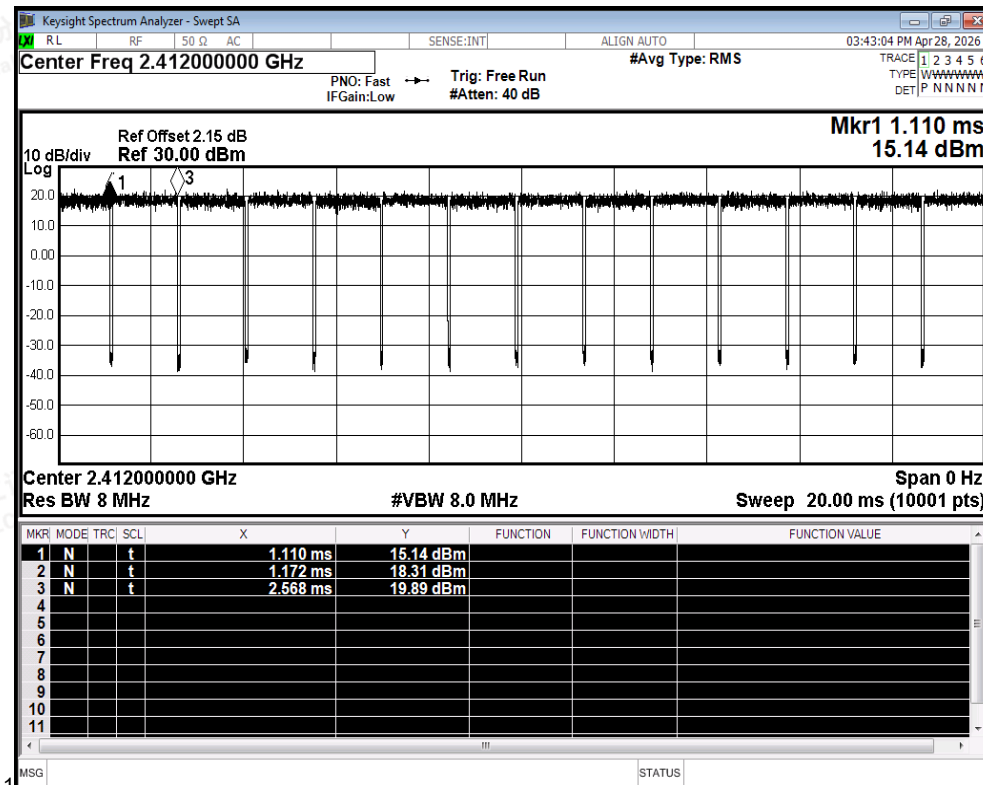
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Duty Cycle NVNT g 2412MHz Ant1

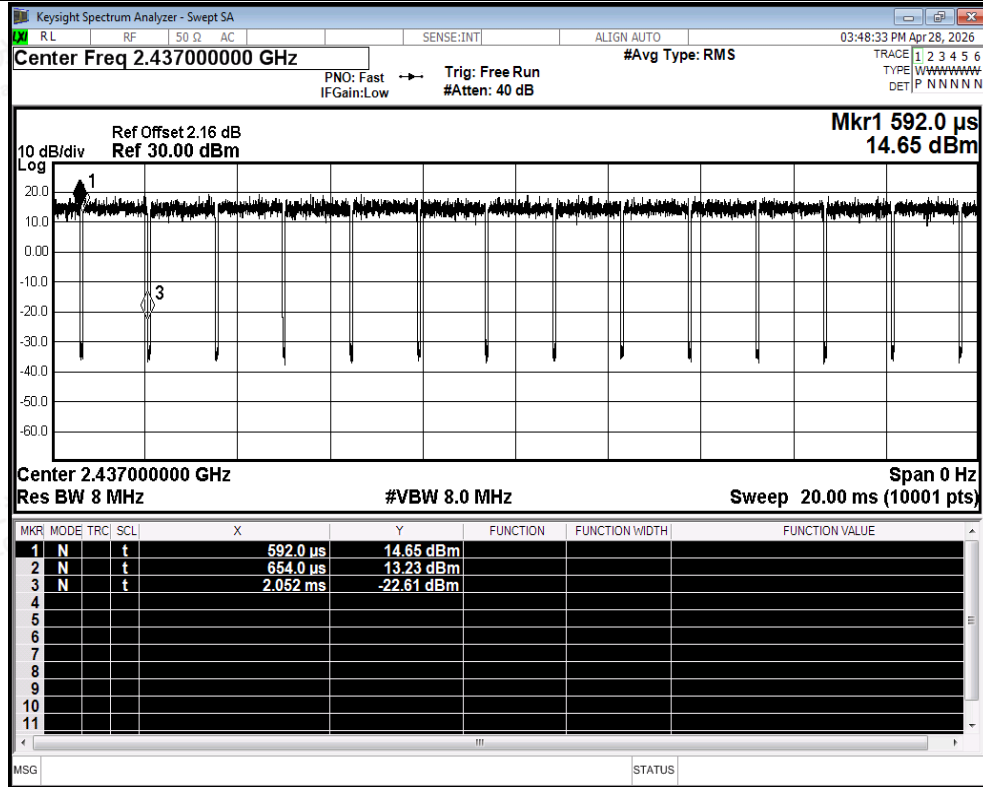


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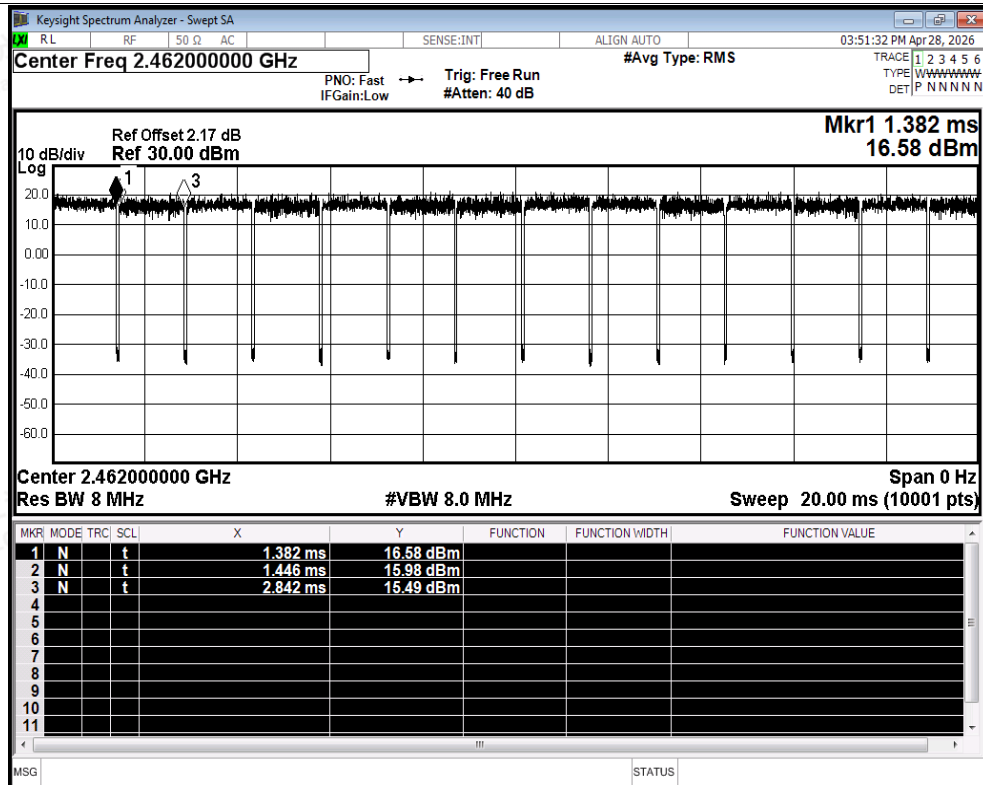
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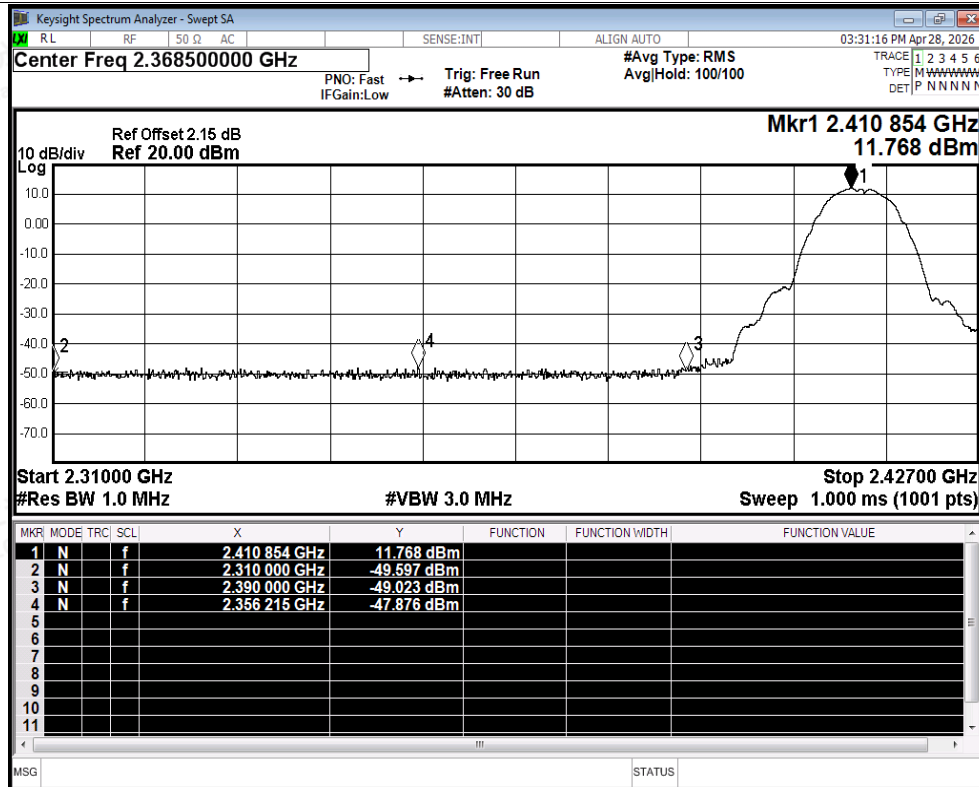
A.7 Restrict Band

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	-49.59	2.61	48.28	Peak	74	Pass
NVNT	b	2412	Ant1	2310	-57.71	2.61	40.16	Average	54	Pass
NVNT	b	2412	Ant1	2356.215	-47.87	2.61	50.00	Peak	74	Pass
NVNT	b	2412	Ant1	2389.911	-56.57	2.61	41.30	Average	54	Pass
NVNT	b	2412	Ant1	2390	-49.02	2.61	48.85	Peak	74	Pass
NVNT	b	2412	Ant1	2390	-56.45	2.61	41.42	Average	54	Pass
NVNT	b	2462	Ant1	2483.5	-45.11	2.61	52.76	Peak	74	Pass
NVNT	b	2462	Ant1	2483.5	-54.01	2.61	43.86	Average	54	Pass
NVNT	b	2462	Ant1	2483.994	-36.64	2.61	61.23	Peak	74	Pass
NVNT	b	2462	Ant1	2483.517	-54.01	2.61	43.86	Average	54	Pass
NVNT	b	2462	Ant1	2500	-49.57	2.61	48.30	Peak	74	Pass
NVNT	b	2462	Ant1	2500	-57.61	2.61	40.26	Average	54	Pass
NVNT	g	2412	Ant1	2310	-47.9	2.61	49.97	Peak	74	Pass
NVNT	g	2412	Ant1	2310	-55.27	2.61	42.60	Average	54	Pass
NVNT	g	2412	Ant1	2389.794	-36.4	2.61	61.47	Peak	74	Pass
NVNT	g	2412	Ant1	2389.911	-47.75	2.61	50.12	Average	54	Pass
NVNT	g	2412	Ant1	2390	-30.86	2.61	67.01	Peak	74	Pass
NVNT	g	2412	Ant1	2390	-47.56	2.61	50.31	Average	54	Pass
NVNT	g	2462	Ant1	2483.5	-35.38	2.61	62.49	Peak	74	Pass
NVNT	g	2462	Ant1	2483.5	-47.92	2.61	49.95	Average	54	Pass
NVNT	g	2462	Ant1	2484.63	-33.29	2.61	64.58	Peak	74	Pass
NVNT	g	2462	Ant1	2483.835	-47.78	2.61	50.09	Average	54	Pass
NVNT	g	2462	Ant1	2500	-50.48	2.61	47.39	Peak	74	Pass
NVNT	g	2462	Ant1	2500	-57.29	2.61	40.58	Average	54	Pass

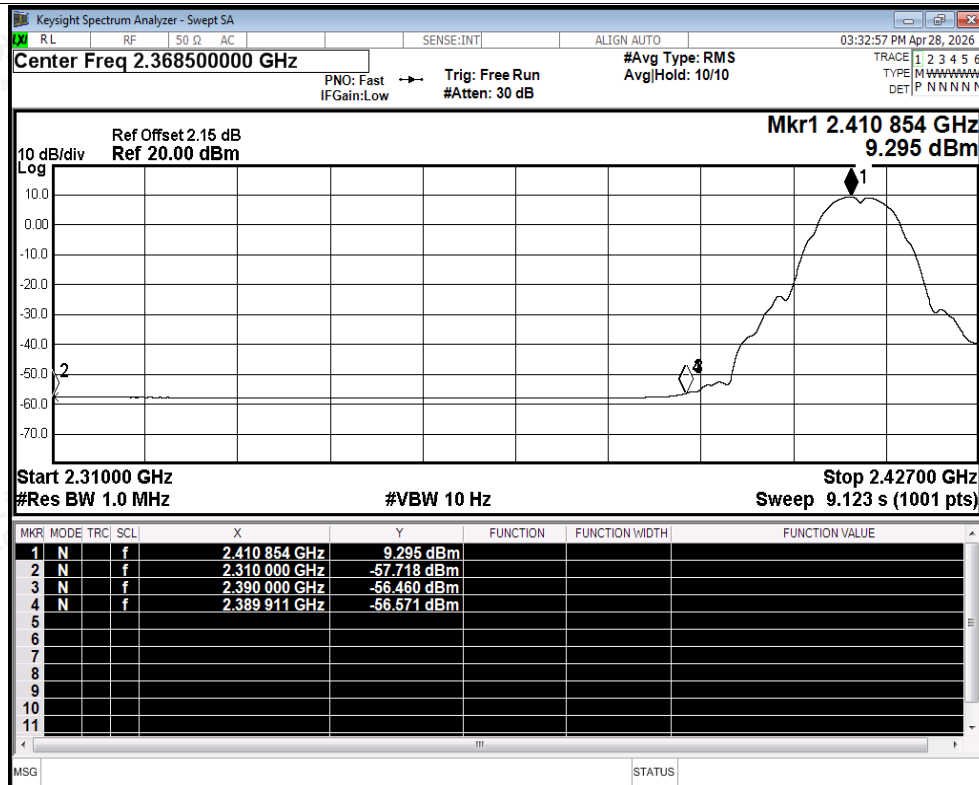
Note: offset=System attenuation +cabel loss



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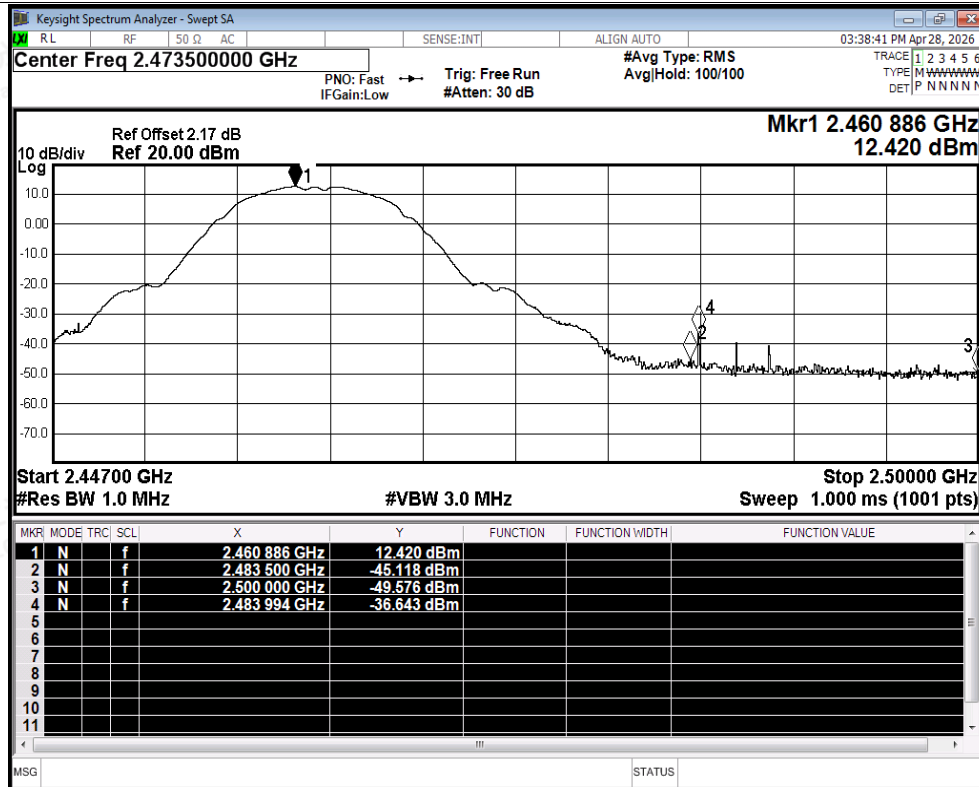


Restrict Band NVNT b 2412MHz Ant1 Peak

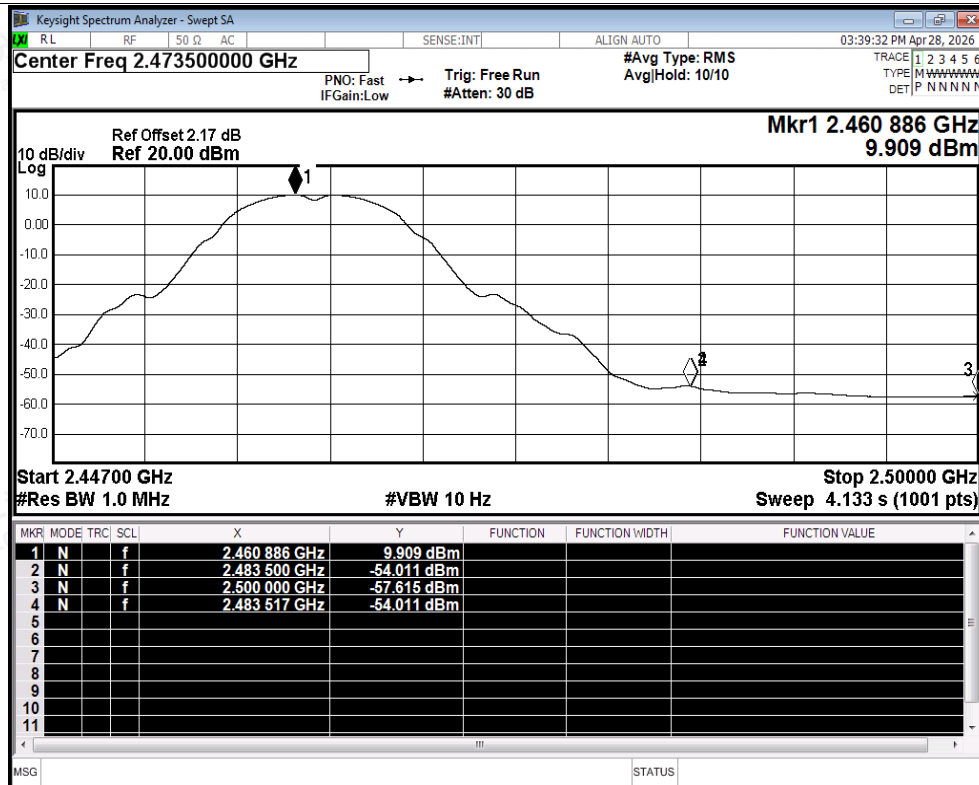


Restrict Band NVNT b 2412MHz Ant1 Average





Restrict Band NVNT b 2462MHz Ant1 Peak



Restrict Band NVNT b 2462MHz Ant1 Average

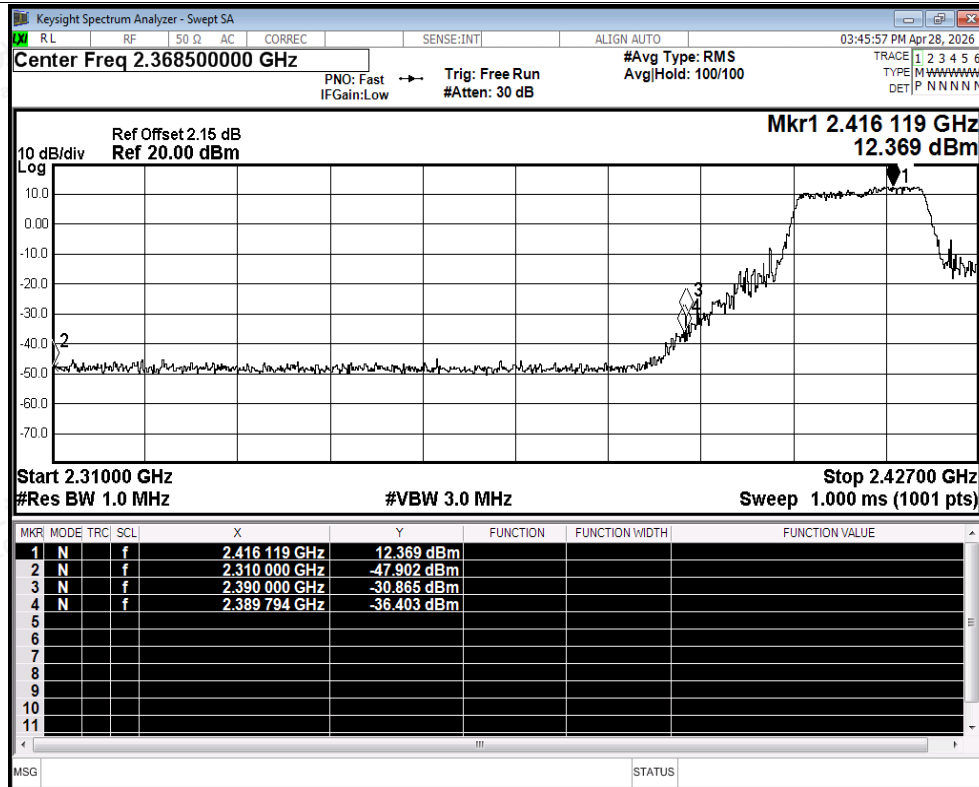


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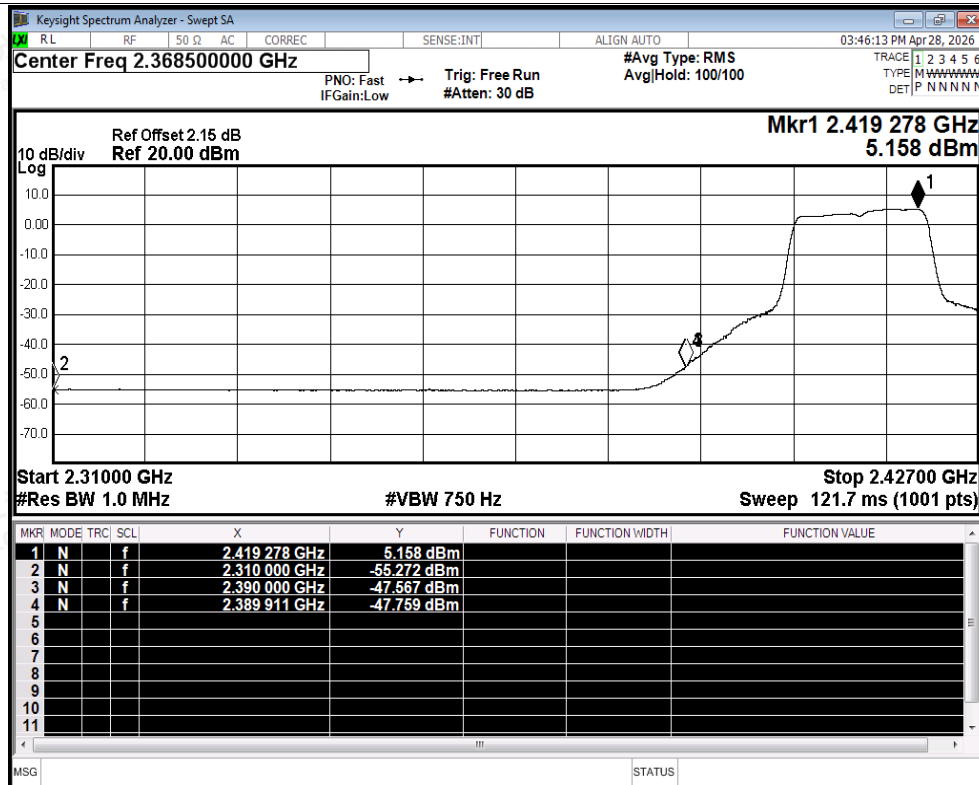
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Restrict Band NVNT g 2412MHz Ant1 Peak



Restrict Band NVNT g 2412MHz Ant1 Average

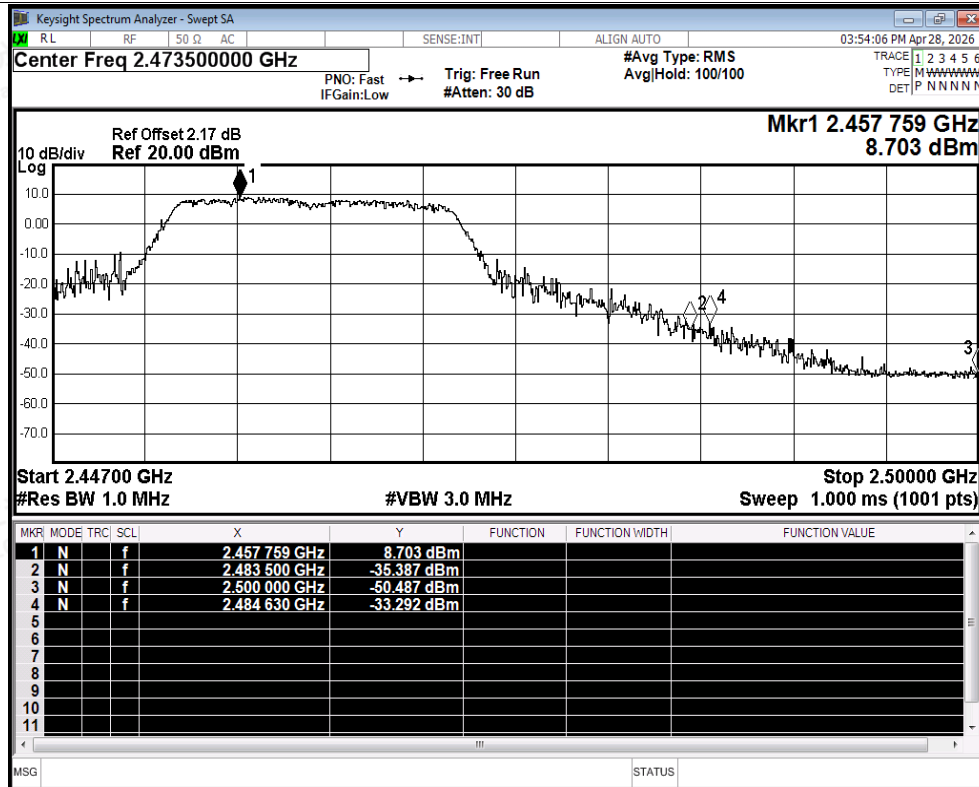


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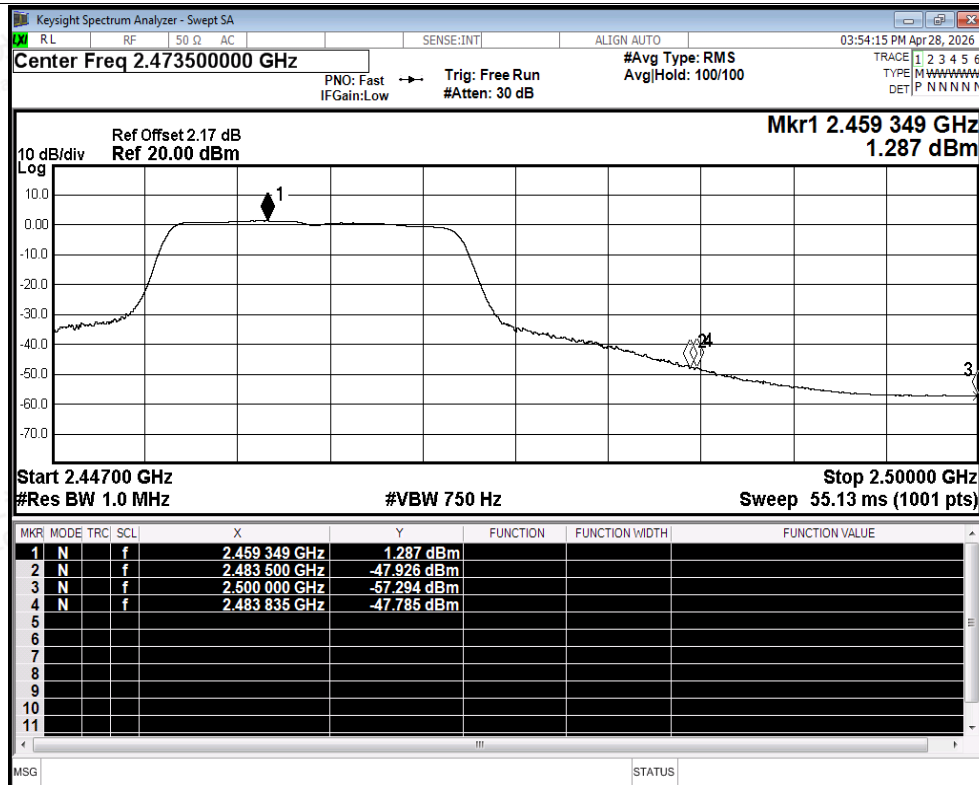
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Restrict Band NVNT g 2462MHz Ant1 Peak



Restrict Band NVNT g 2462MHz Ant1 Average



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