



Appendix C

RF Test Data for 2.4GWIFI(Conducted Measurement)

Product Name: Mobile phone

Test Model: A09

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Taylor Hu
Supervised by:	Nick Peng





C.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant	7.99	≥ 0.5	Pass
NVNT	b	2437	Ant	7.56	≥ 0.5	Pass
NVNT	b	2462	Ant	8.56	≥ 0.5	Pass
NVNT	g	2412	Ant	15.707	≥ 0.5	Pass
NVNT	g	2437	Ant	16.312	≥ 0.5	Pass
NVNT	g	2462	Ant	16.086	≥ 0.5	Pass
NVNT	n20	2412	Ant	16.188	≥ 0.5	Pass
NVNT	n20	2437	Ant	17.015	≥ 0.5	Pass
NVNT	n20	2462	Ant	16.832	≥ 0.5	Pass

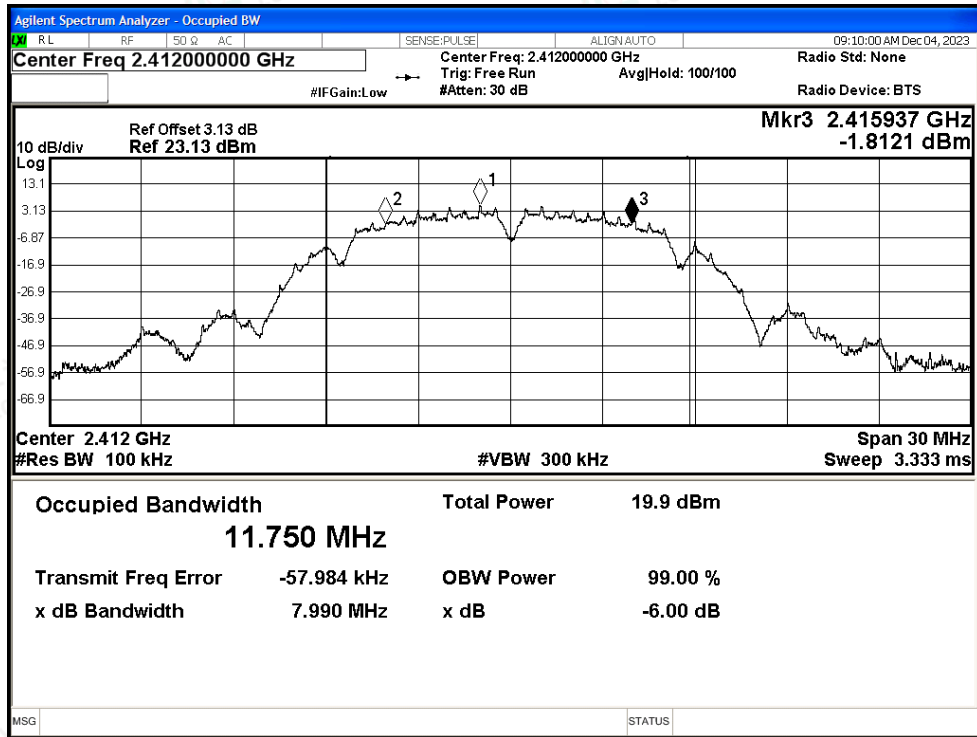


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Scan code to check authenticity

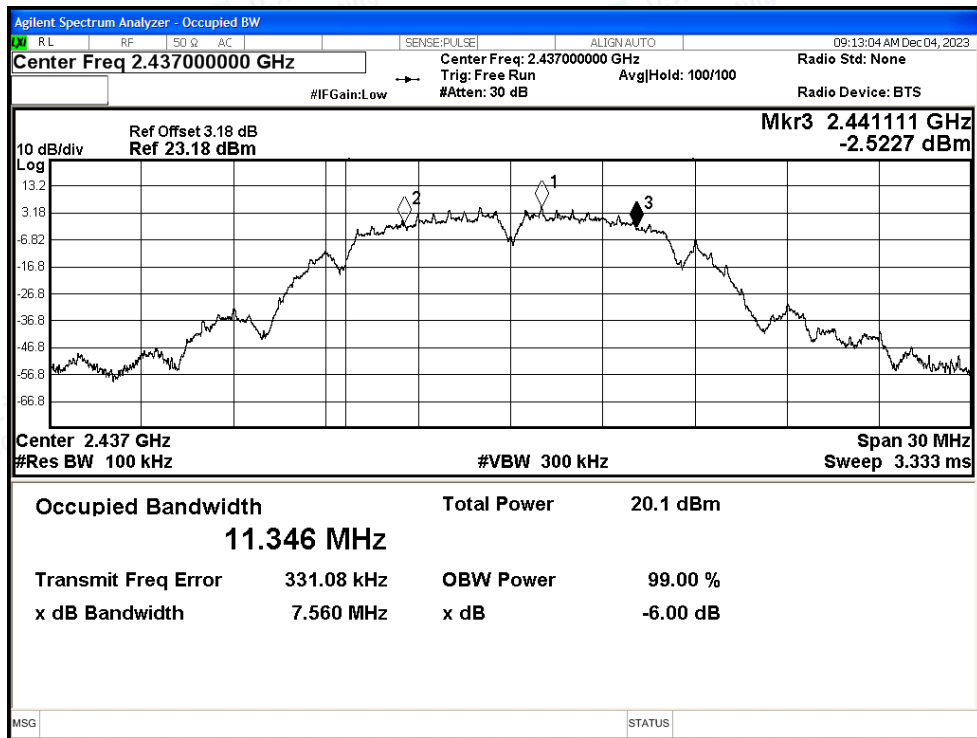


Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant

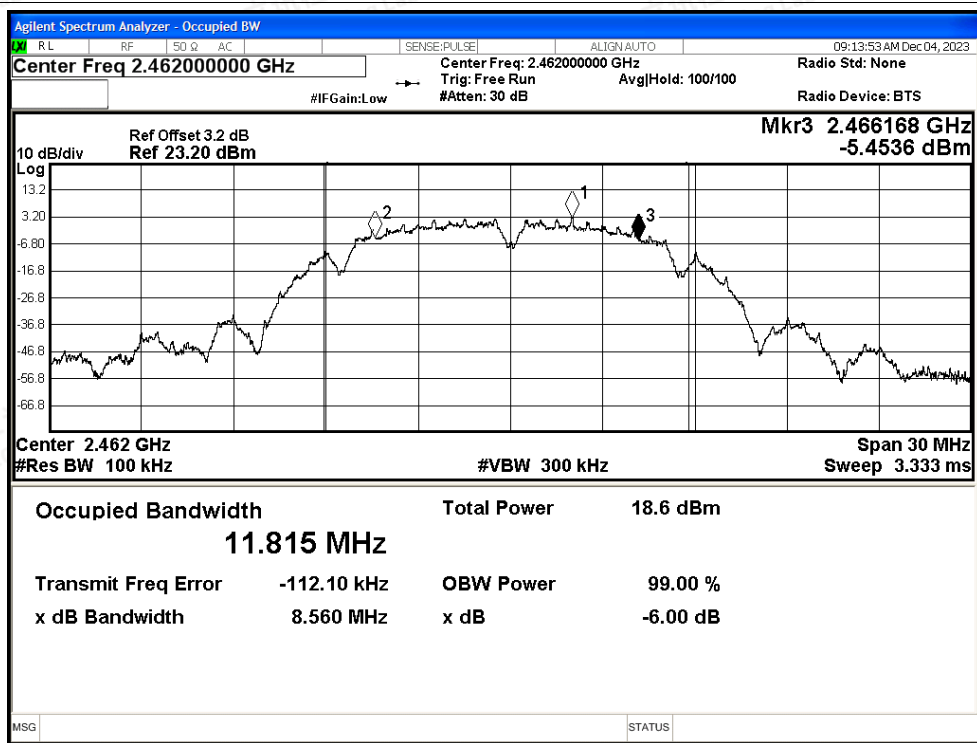


-6dB Bandwidth NVNT b 2437MHz Ant

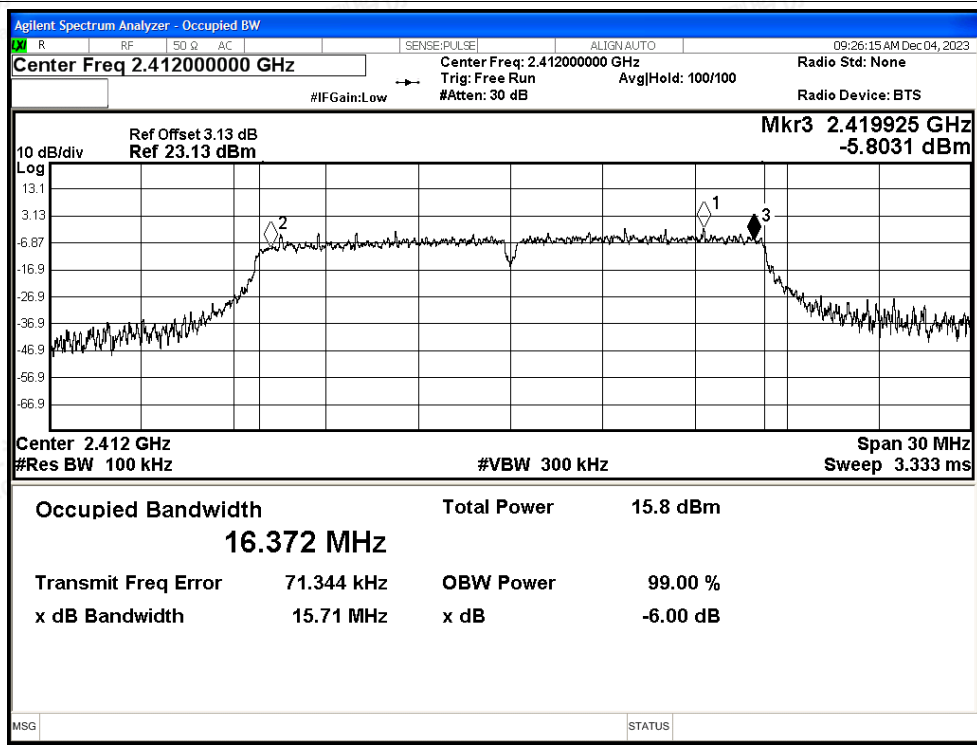




-6dB Bandwidth NVNT b 2462MHz Ant

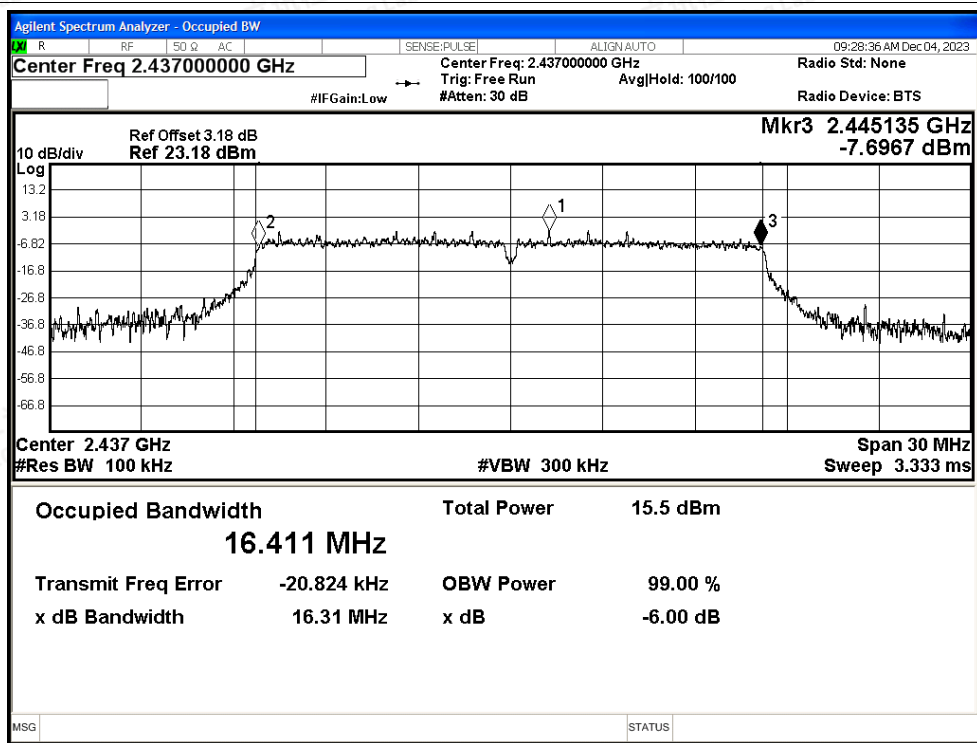


-6dB Bandwidth NVNT g 2412MHz Ant

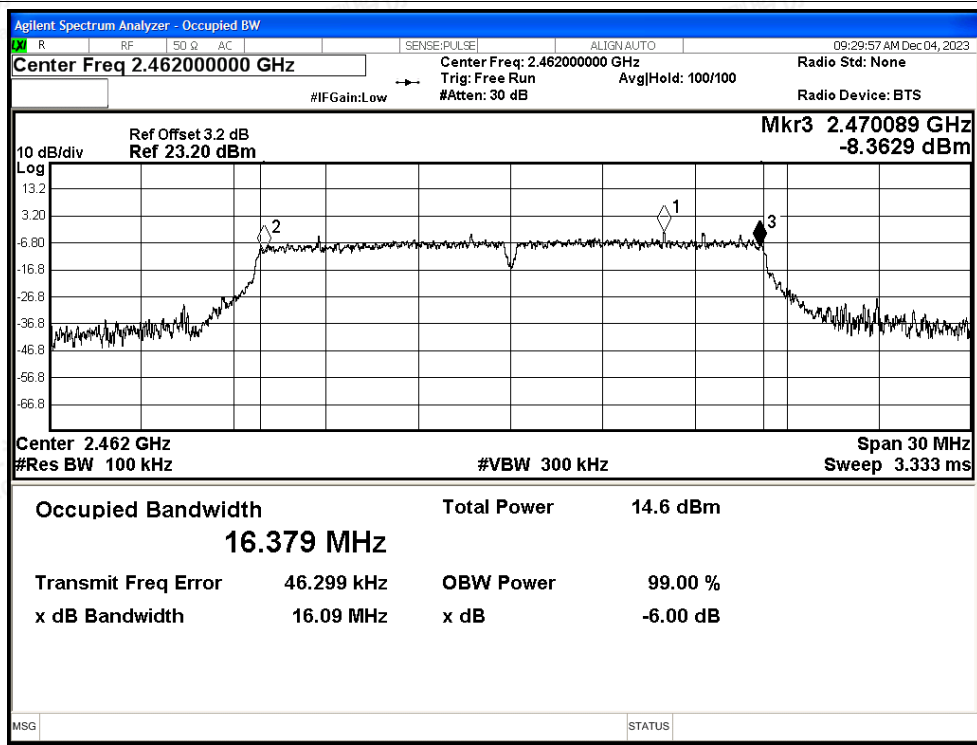




-6dB Bandwidth NVNT g 2437MHz Ant

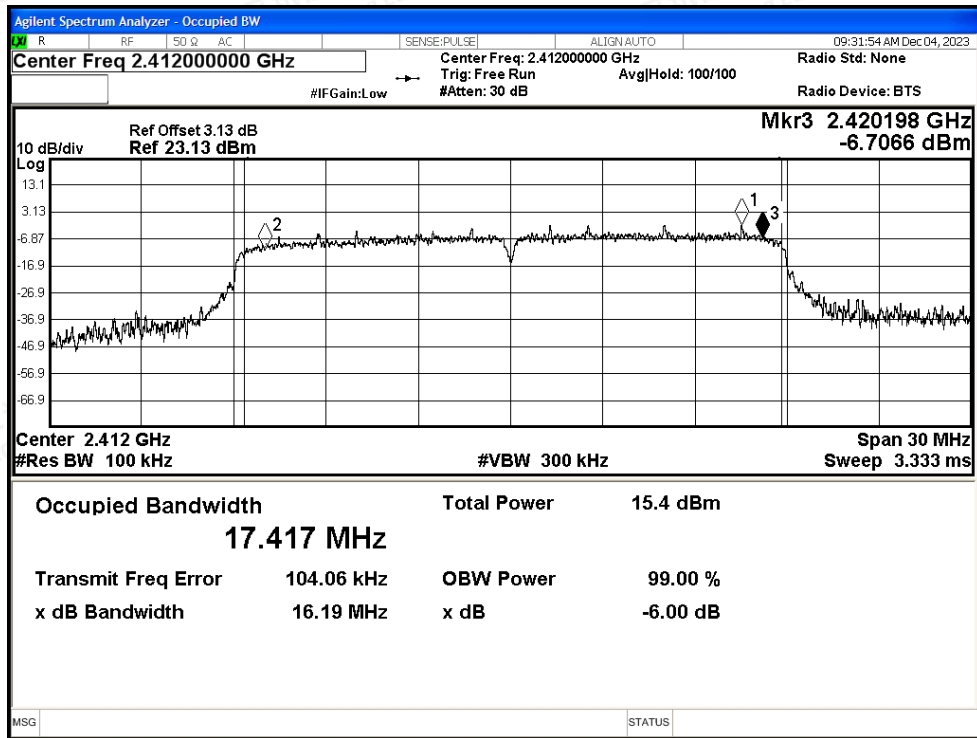


-6dB Bandwidth NVNT g 2462MHz Ant

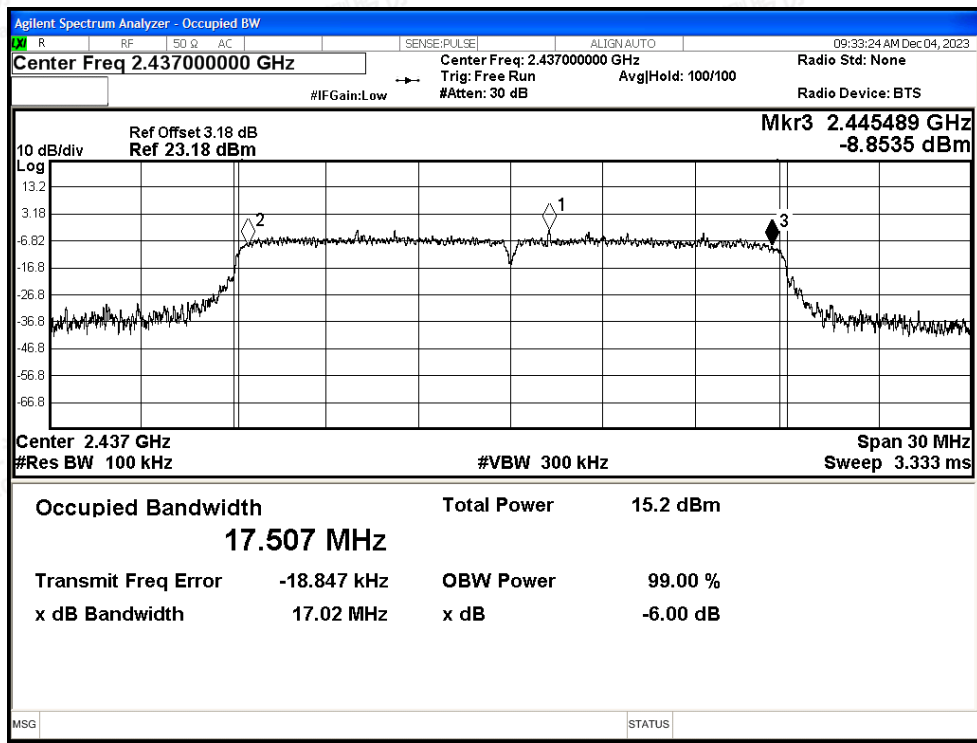


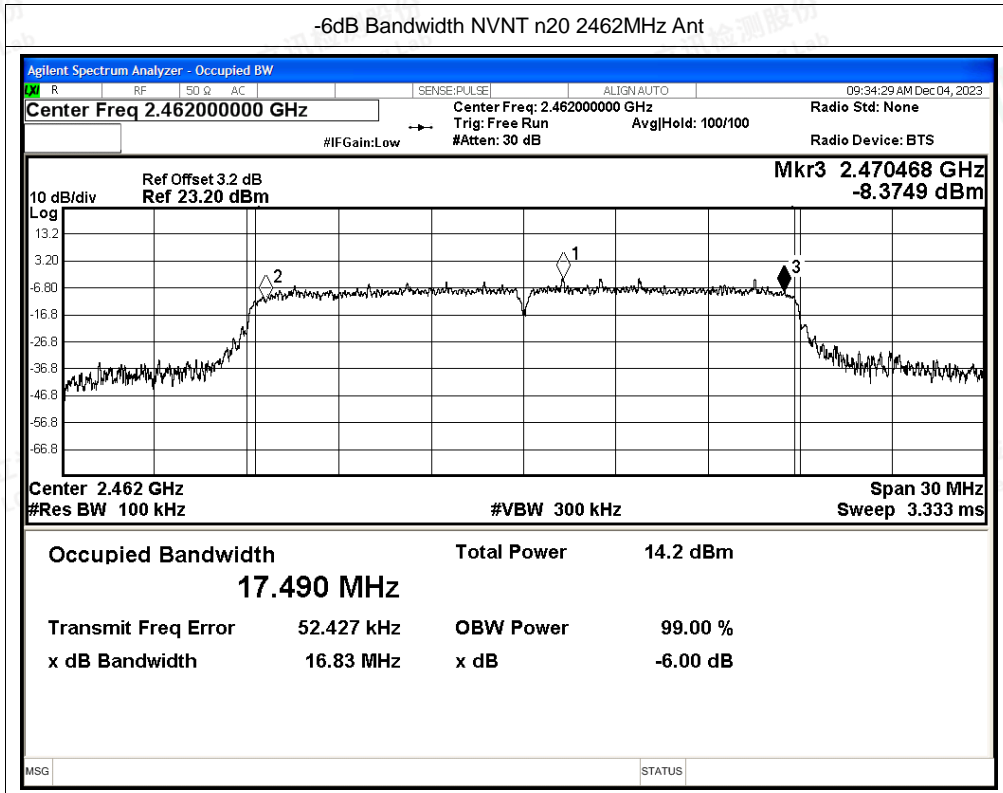


-6dB Bandwidth NVNT n20 2412MHz Ant



-6dB Bandwidth NVNT n20 2437MHz Ant







C.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant	14.95	30	Pass
NVNT	b	2437	Ant	15.14	30	Pass
NVNT	b	2462	Ant	13.75	30	Pass
NVNT	g	2412	Ant	14.47	30	Pass
NVNT	g	2437	Ant	14.23	30	Pass
NVNT	g	2462	Ant	13.28	30	Pass
NVNT	n20	2412	Ant	13.97	30	Pass
NVNT	n20	2437	Ant	13.76	30	Pass
NVNT	n20	2462	Ant	12.78	30	Pass





C.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant	-8.05	8	Pass
NVNT	b	2437	Ant	-5.6	8	Pass
NVNT	b	2462	Ant	-8.4	8	Pass
NVNT	g	2412	Ant	-15.54	8	Pass
NVNT	g	2437	Ant	-15.62	8	Pass
NVNT	g	2462	Ant	-17.72	8	Pass
NVNT	n20	2412	Ant	-15.93	8	Pass
NVNT	n20	2437	Ant	-16.33	8	Pass
NVNT	n20	2462	Ant	-17.72	8	Pass

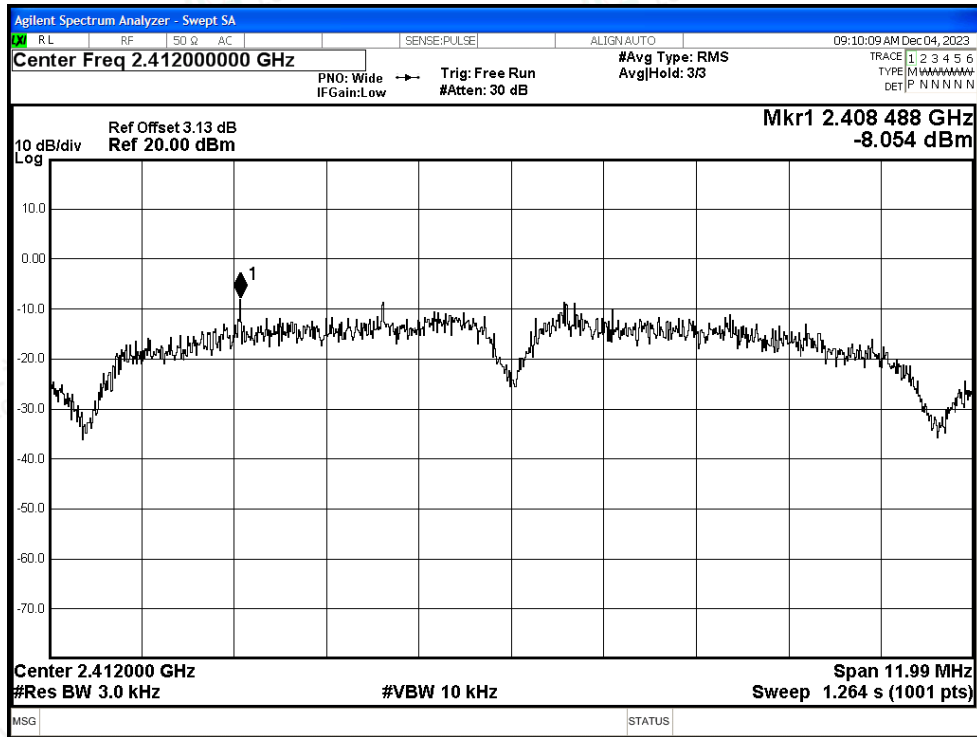


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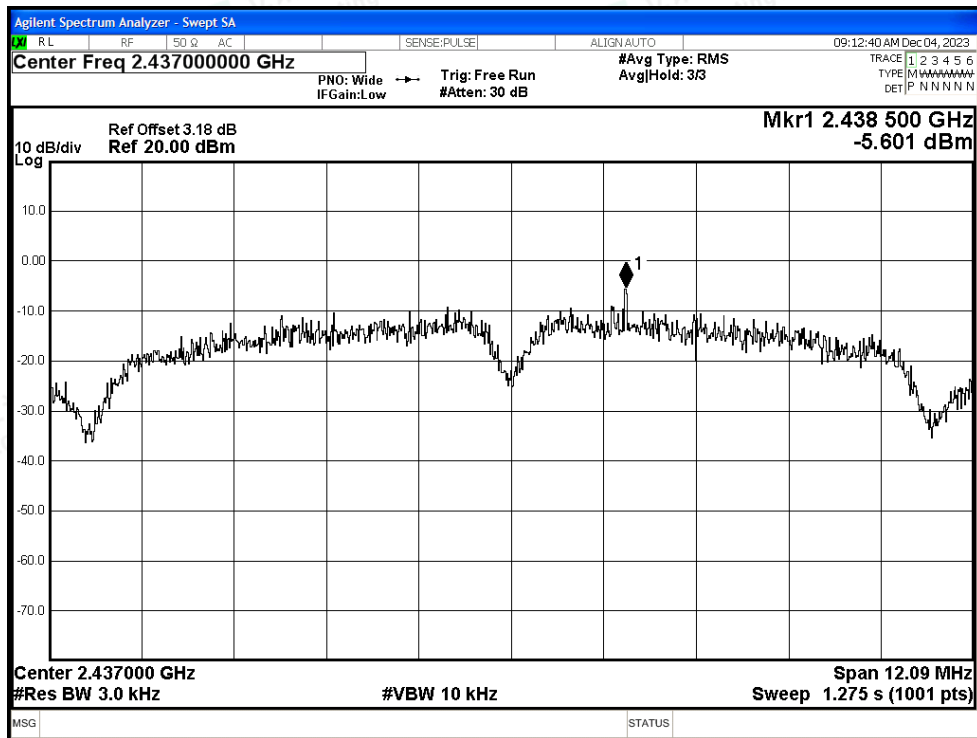


Test Graphs

PSD NVNT b 2412MHz Ant

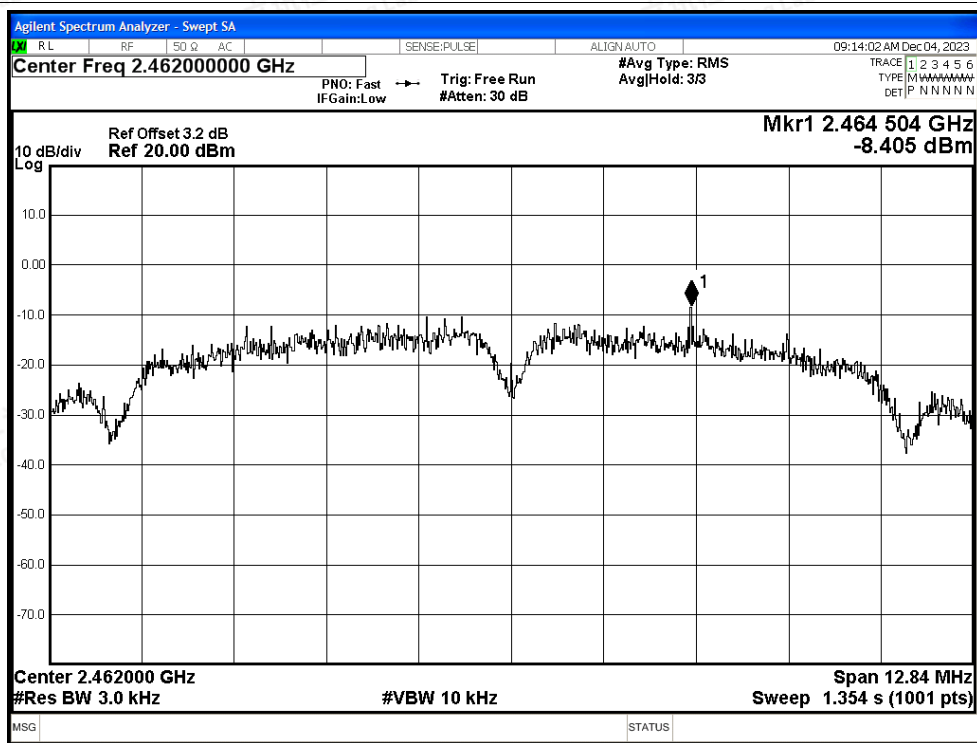


PSD NVNT b 2437MHz Ant

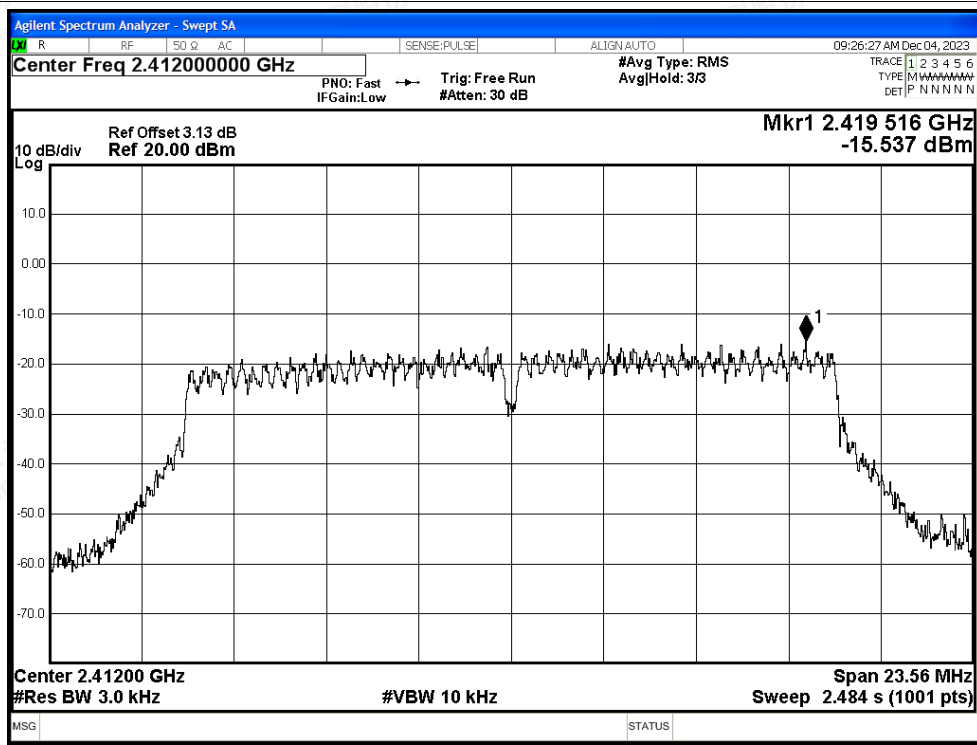




PSD NVNT b 2462MHz Ant

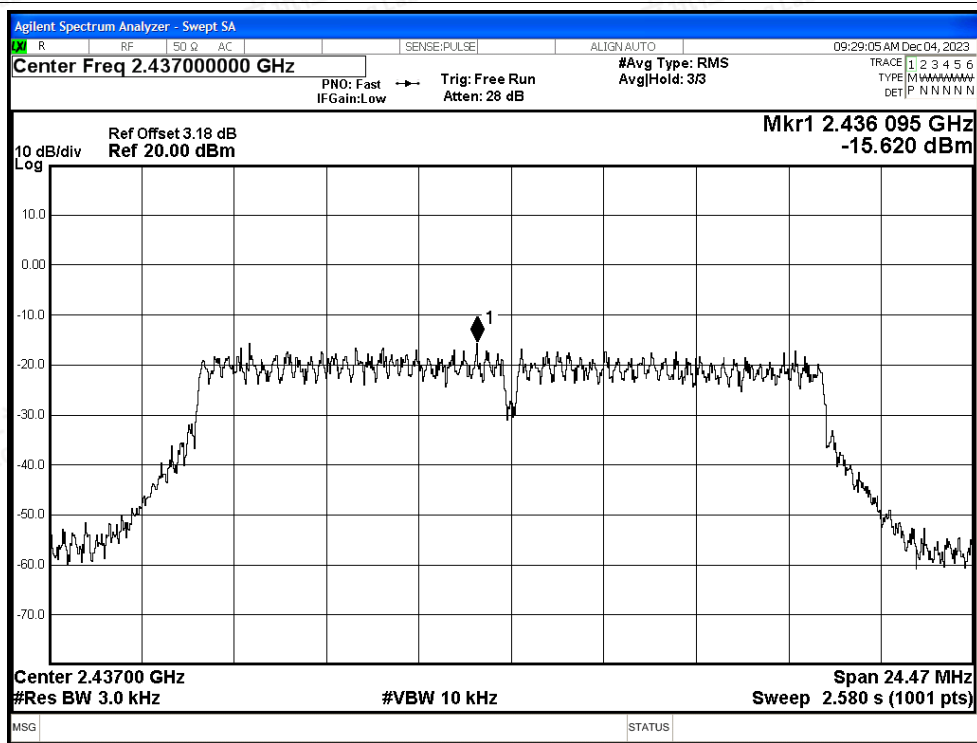


PSD NVNT g 2412MHz Ant

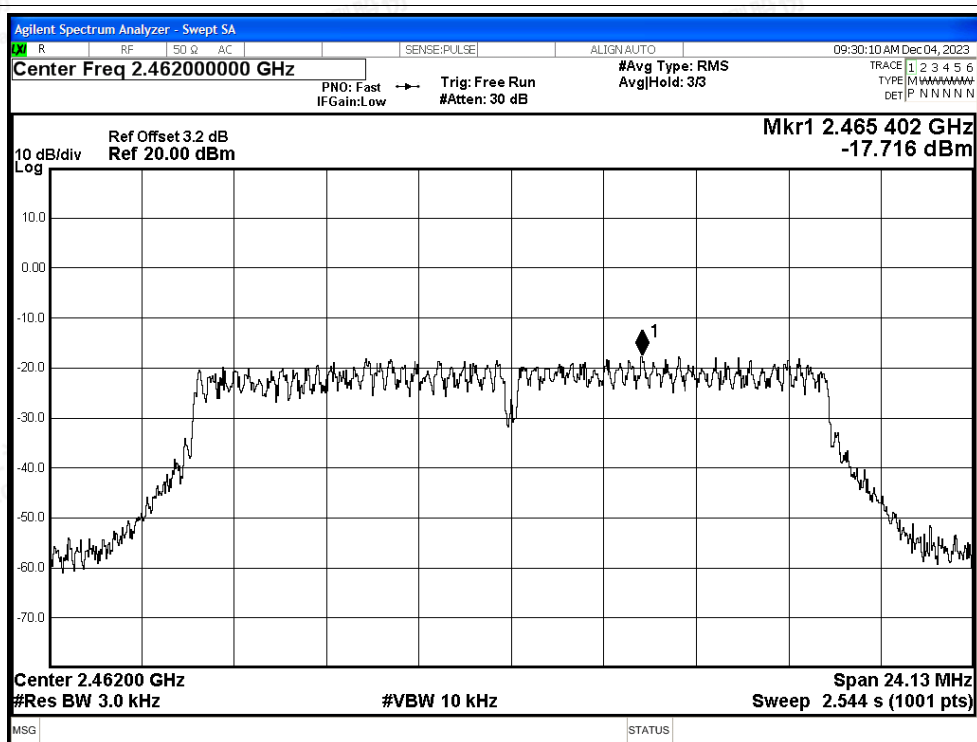




PSD NVNT g 2437MHz Ant

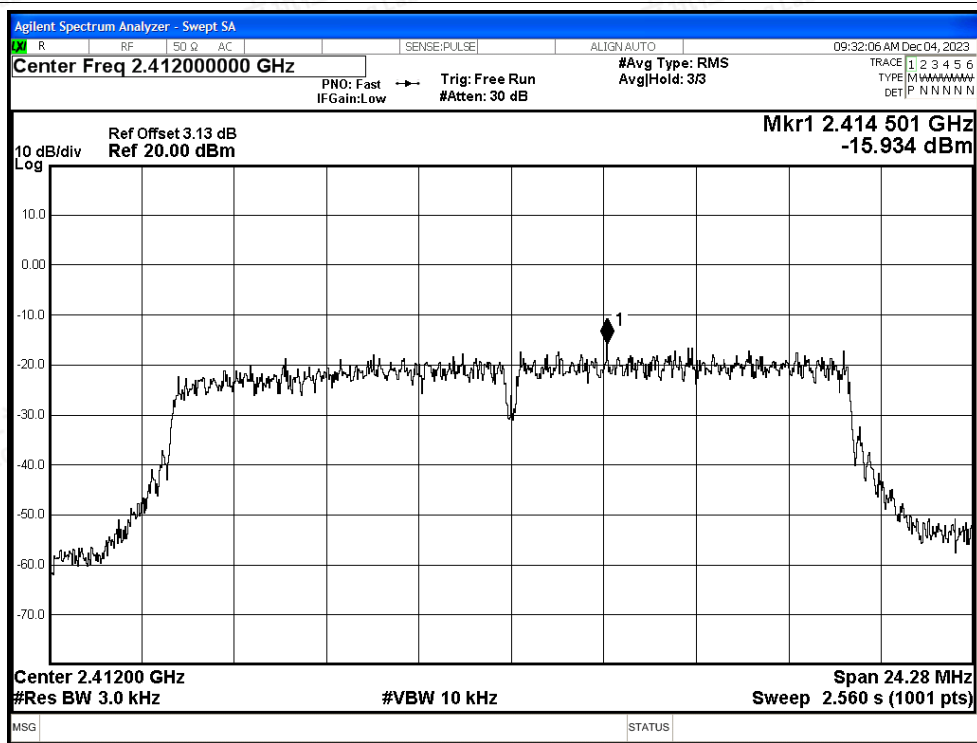


PSD NVNT g 2462MHz Ant

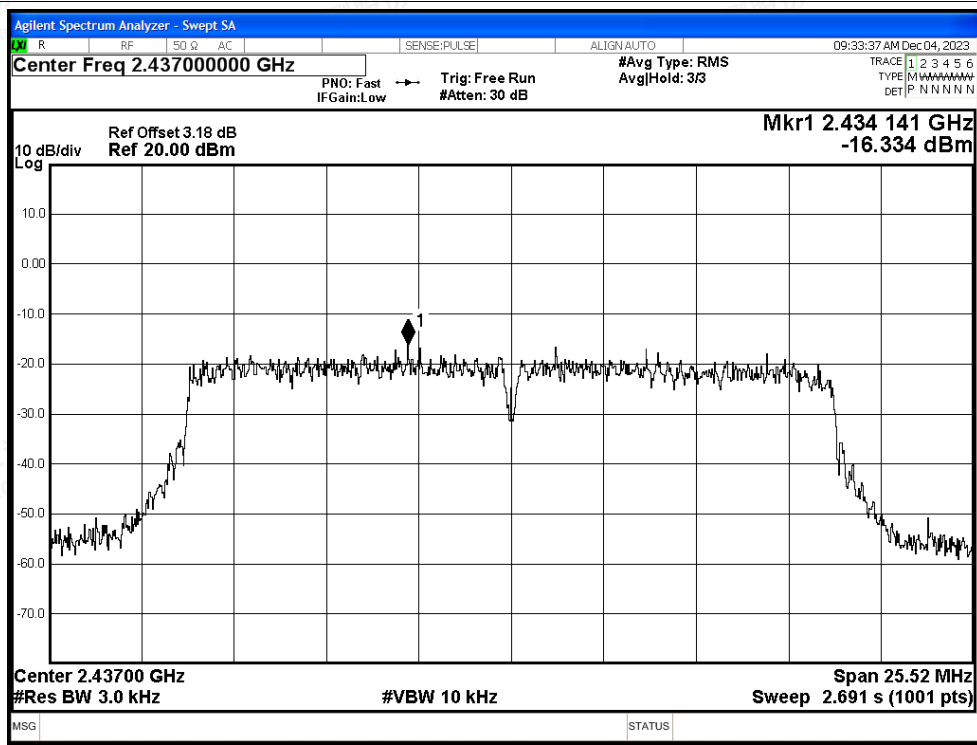


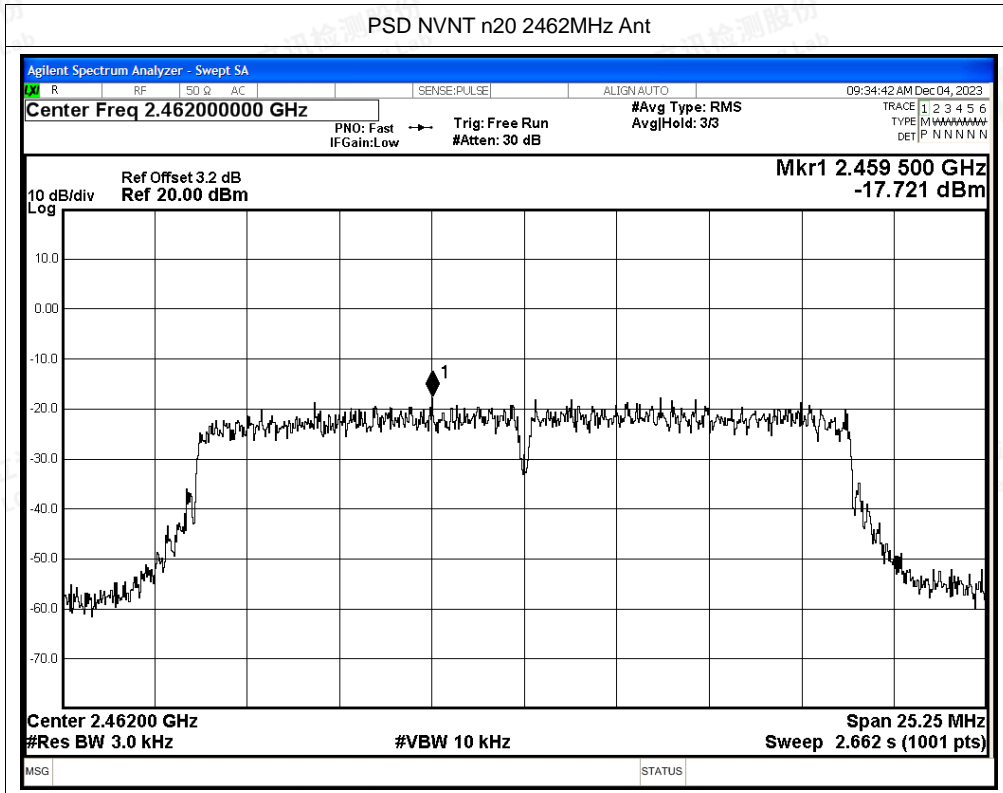


PSD NVNT n20 2412MHz Ant



PSD NVNT n20 2437MHz Ant







C.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant	-45.12	-20	Pass
NVNT	b	2462	Ant	-57.45	-20	Pass
NVNT	g	2412	Ant	-35.85	-20	Pass
NVNT	g	2462	Ant	-41.96	-20	Pass
NVNT	n20	2412	Ant	-34.13	-20	Pass
NVNT	n20	2462	Ant	-37.9	-20	Pass

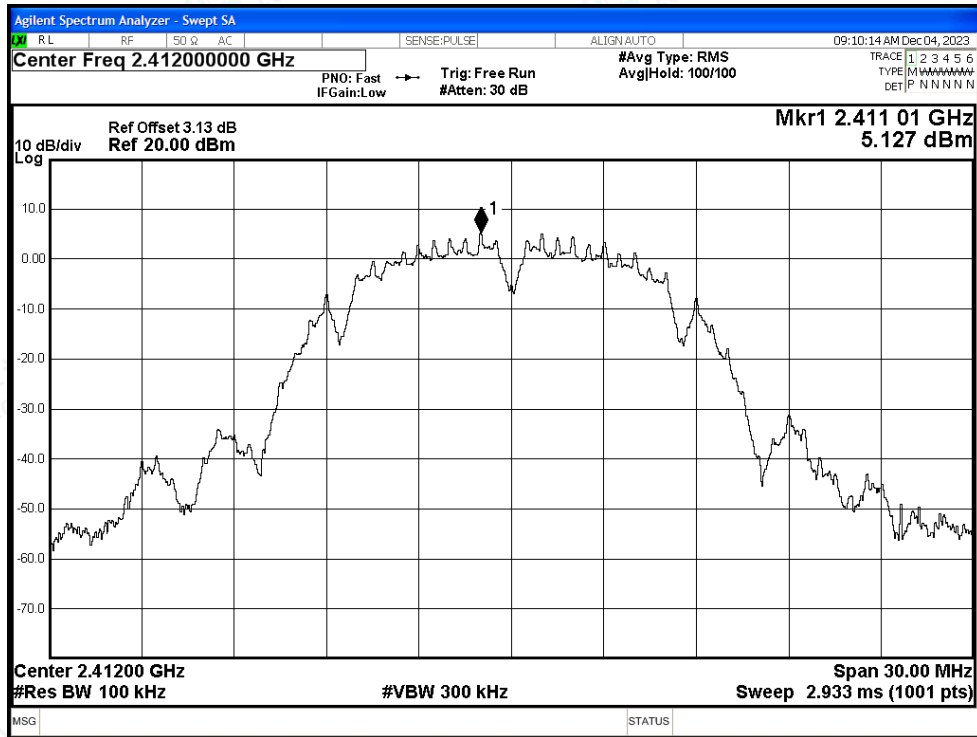


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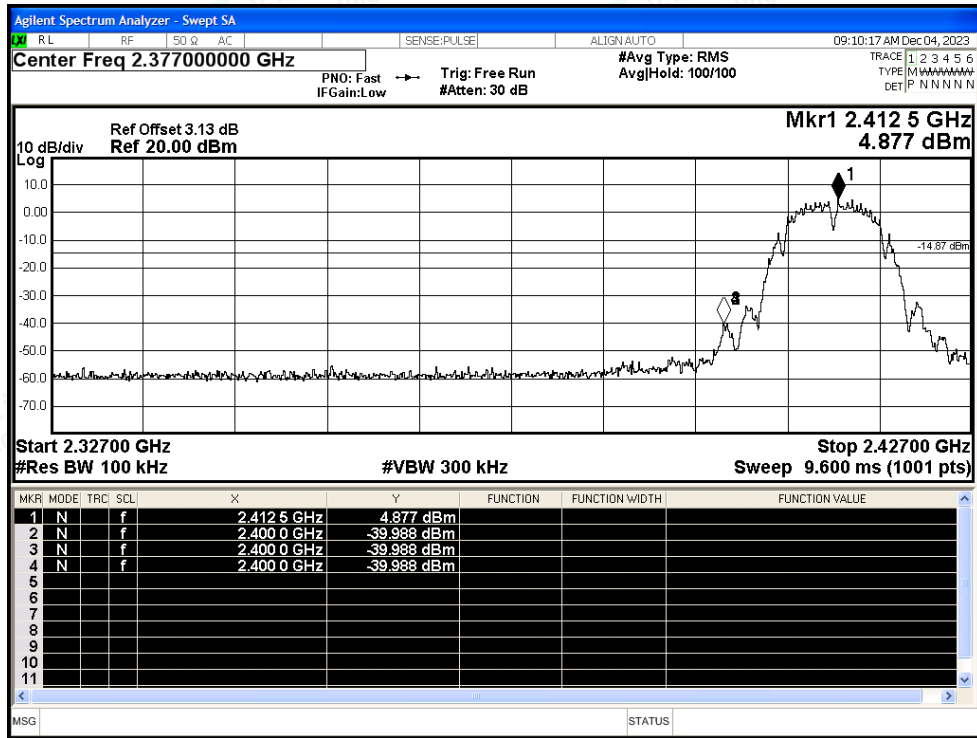


Test Graphs

Band Edge NVNT b 2412MHz Ant Ref

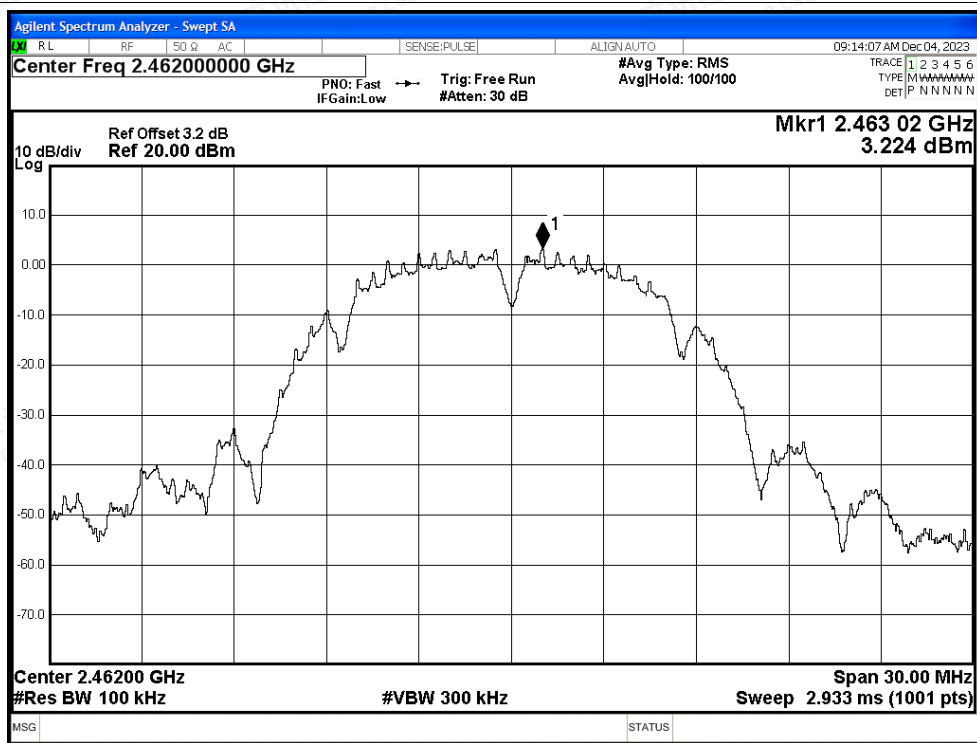


Band Edge NVNT b 2412MHz Ant Emission

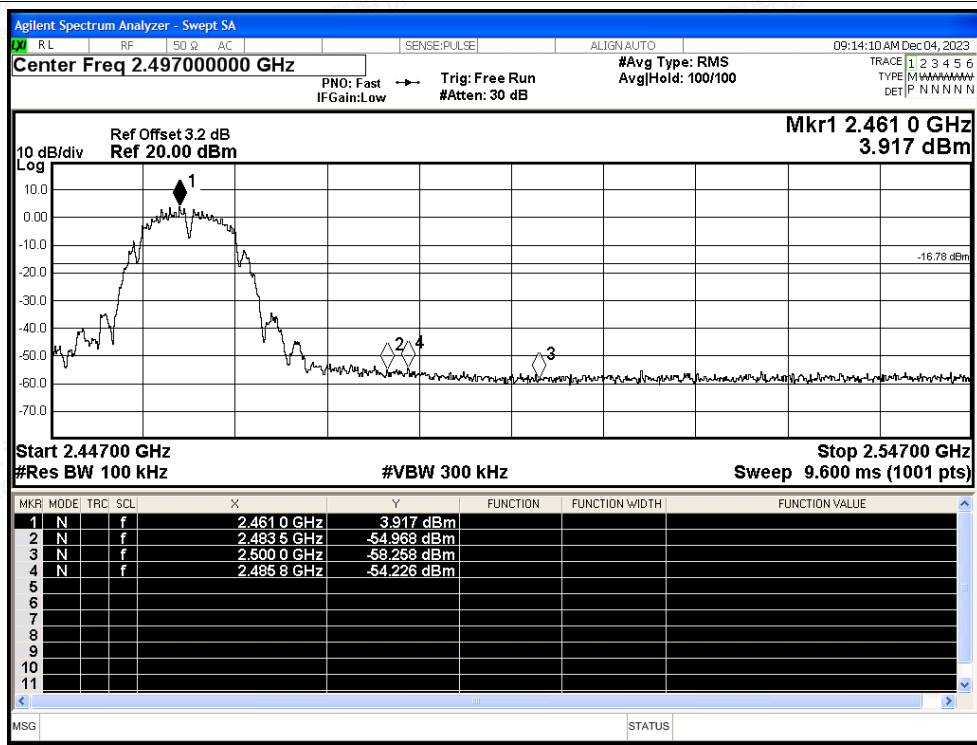




Band Edge NVNT b 2462MHz Ant Ref

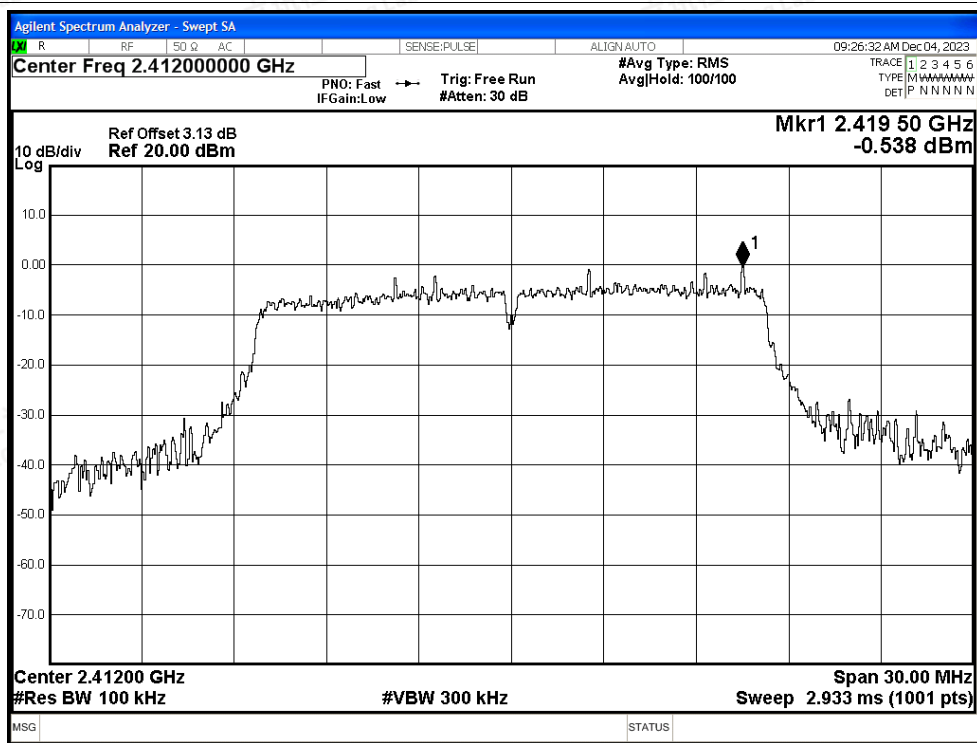


Band Edge NVNT b 2462MHz Ant Emission

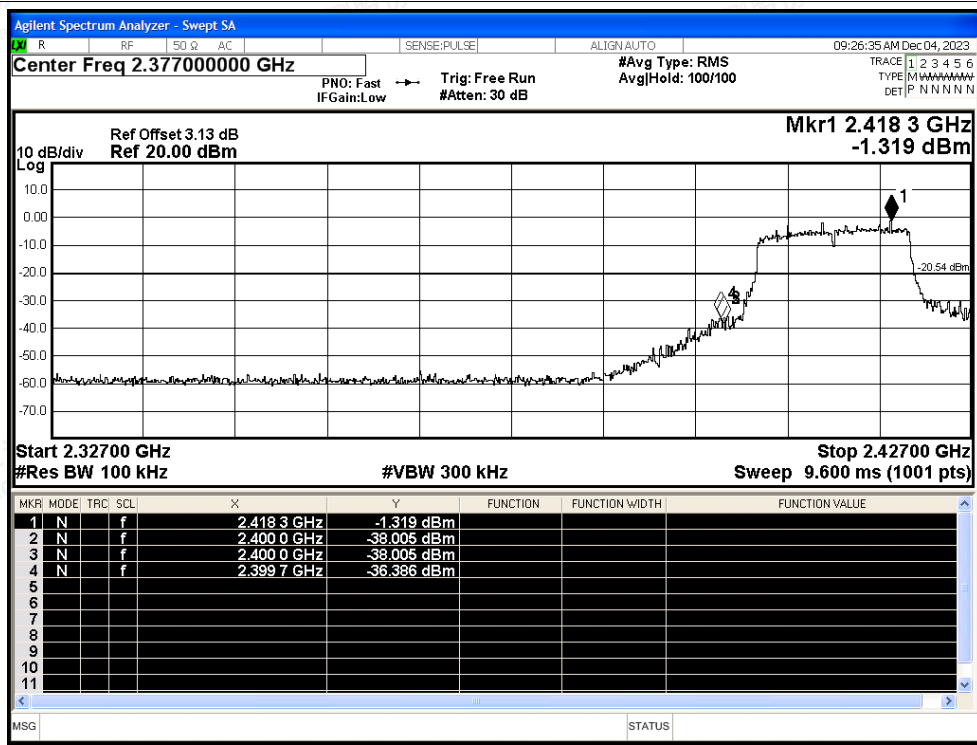




Band Edge NVNT g 2412MHz Ant Ref

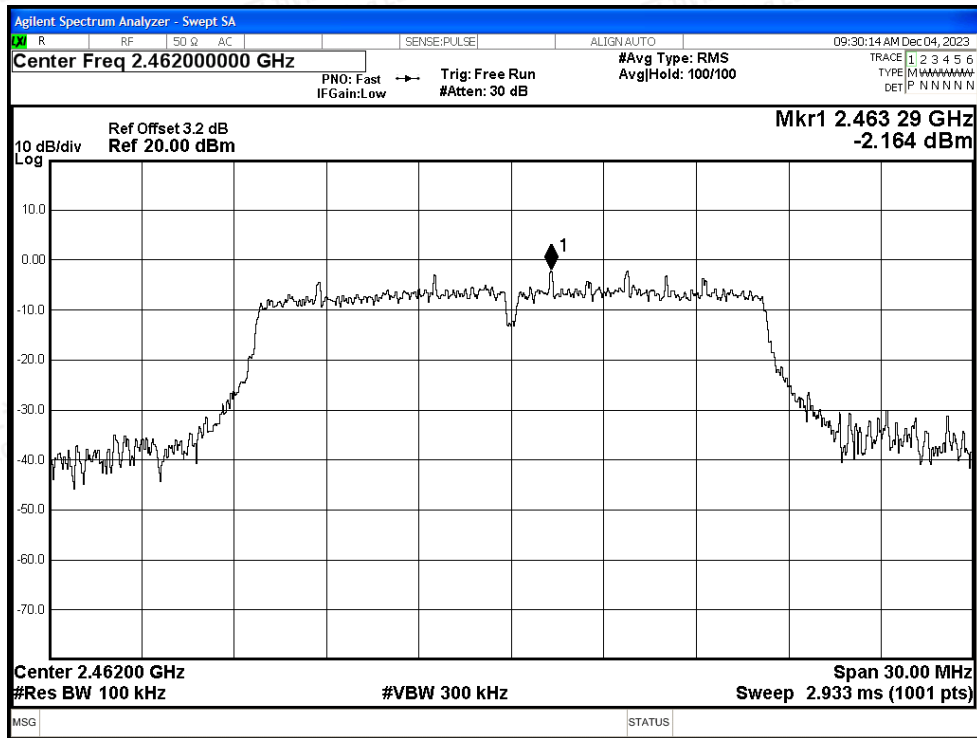


Band Edge NVNT g 2412MHz Ant Emission

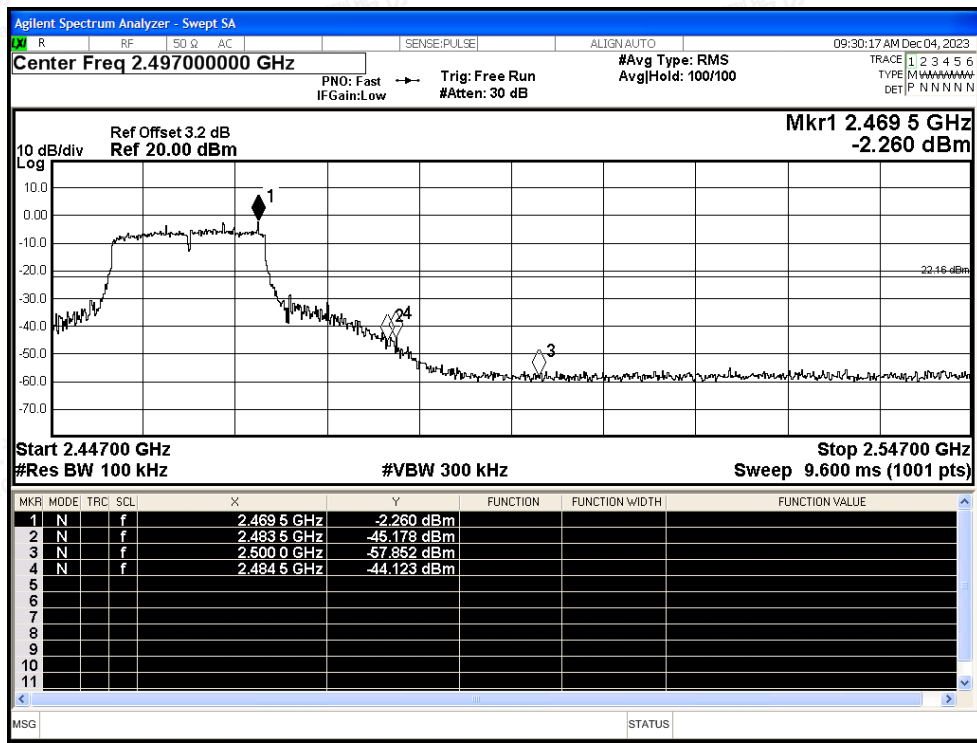




Band Edge NVNT g 2462MHz Ant Ref

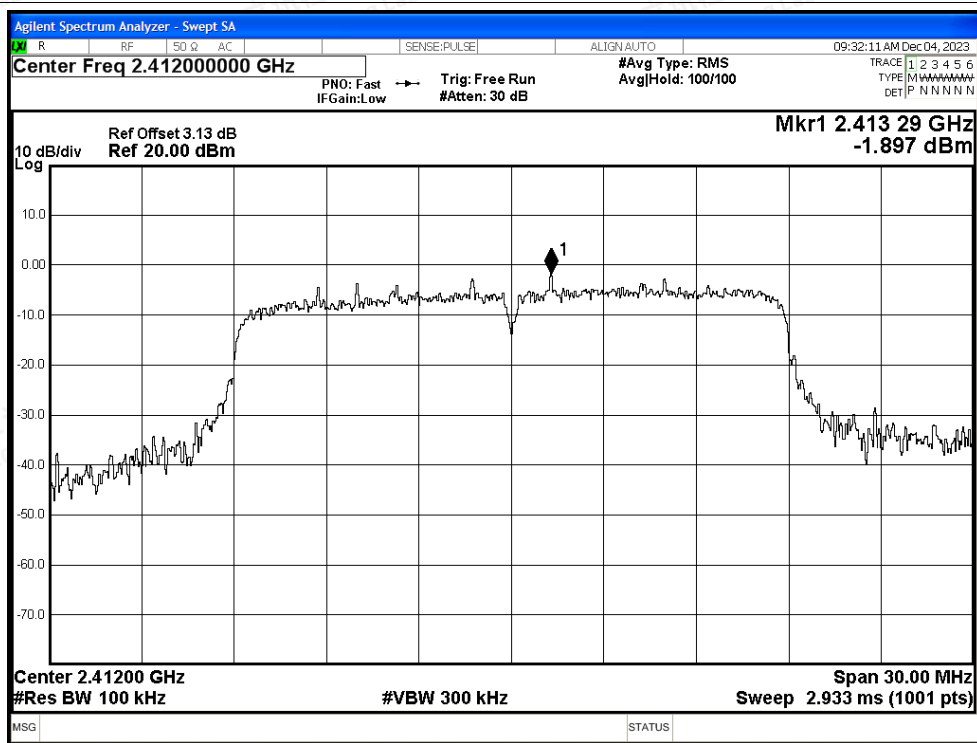


Band Edge NVNT g 2462MHz Ant Emission

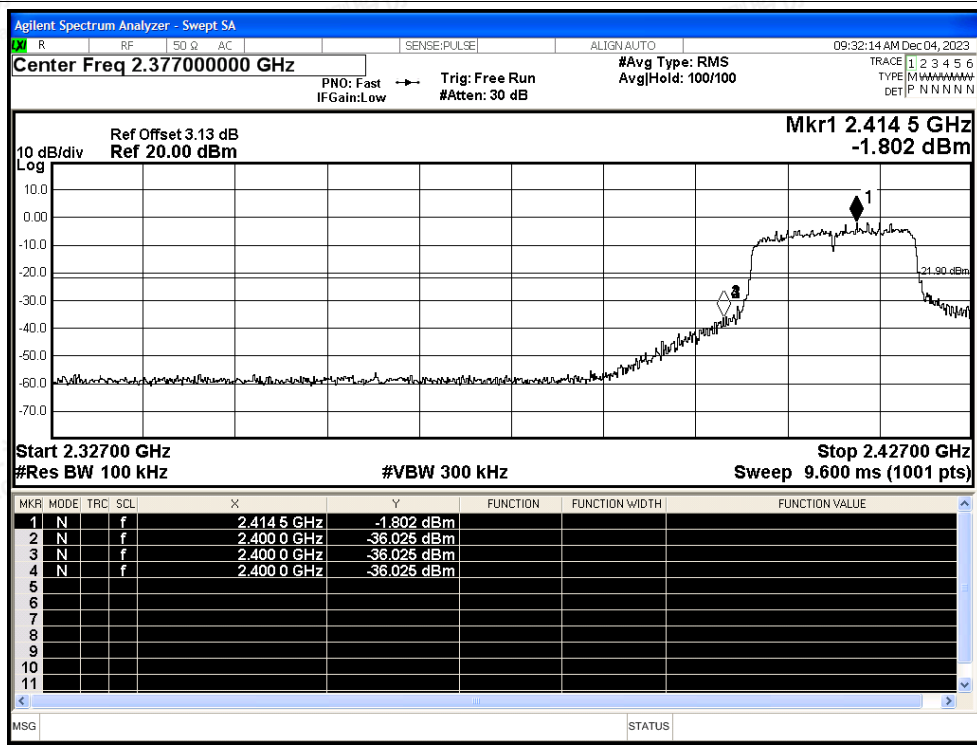




Band Edge NVNT n20 2412MHz Ant Ref

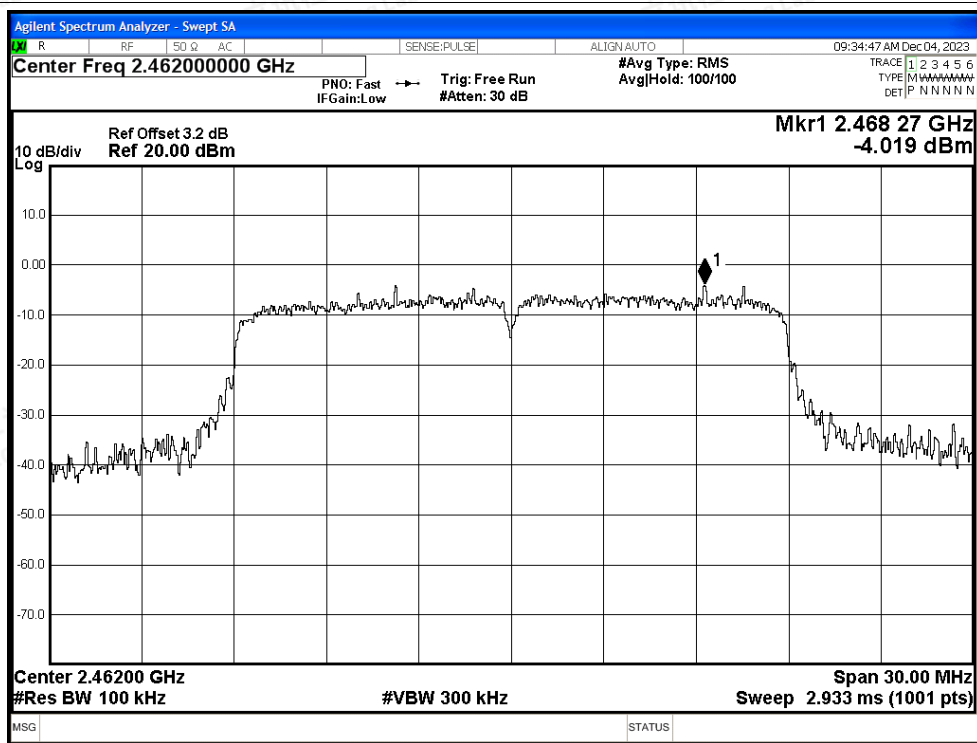


Band Edge NVNT n20 2412MHz Ant Emission

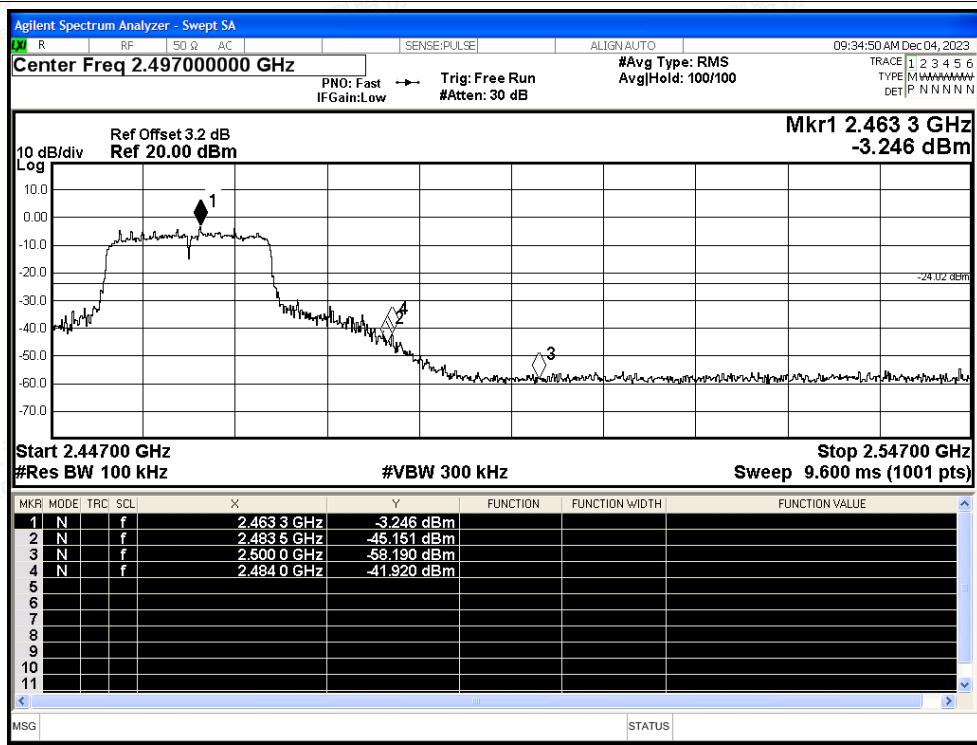




Band Edge NVNT n20 2462MHz Ant Ref



Band Edge NVNT n20 2462MHz Ant Emission





C.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant	-49.57	-20	Pass
NVNT	b	2437	Ant	-50.9	-20	Pass
NVNT	b	2462	Ant	-48.44	-20	Pass
NVNT	g	2412	Ant	-44.47	-20	Pass
NVNT	g	2437	Ant	-43.8	-20	Pass
NVNT	g	2462	Ant	-42.25	-20	Pass
NVNT	n20	2412	Ant	-42.28	-20	Pass
NVNT	n20	2437	Ant	-42.88	-20	Pass
NVNT	n20	2462	Ant	-42.44	-20	Pass

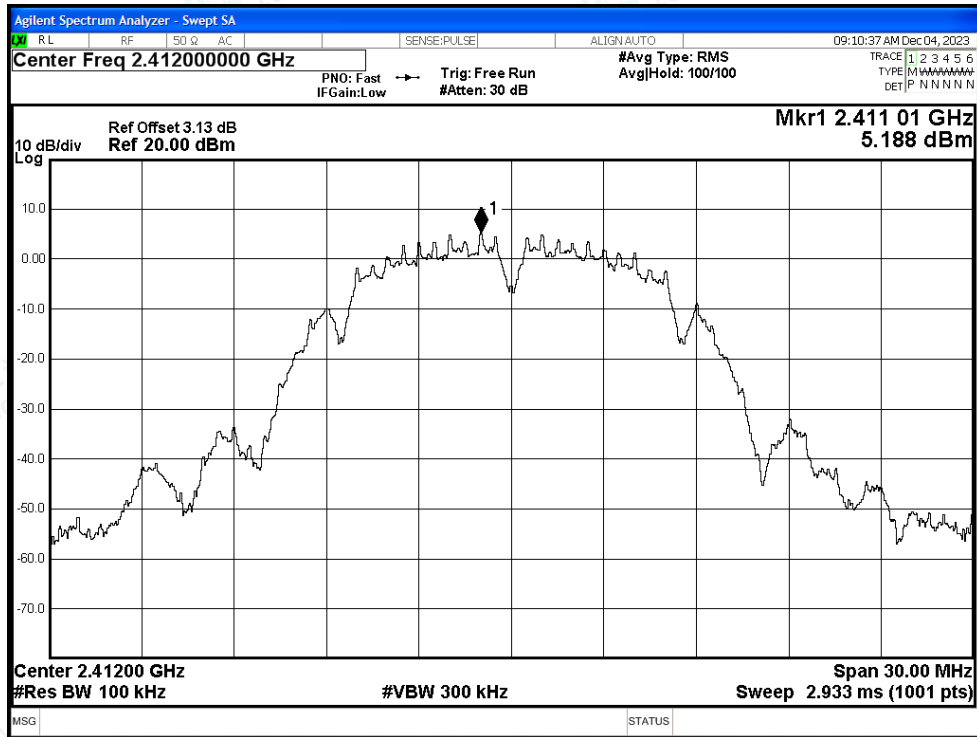


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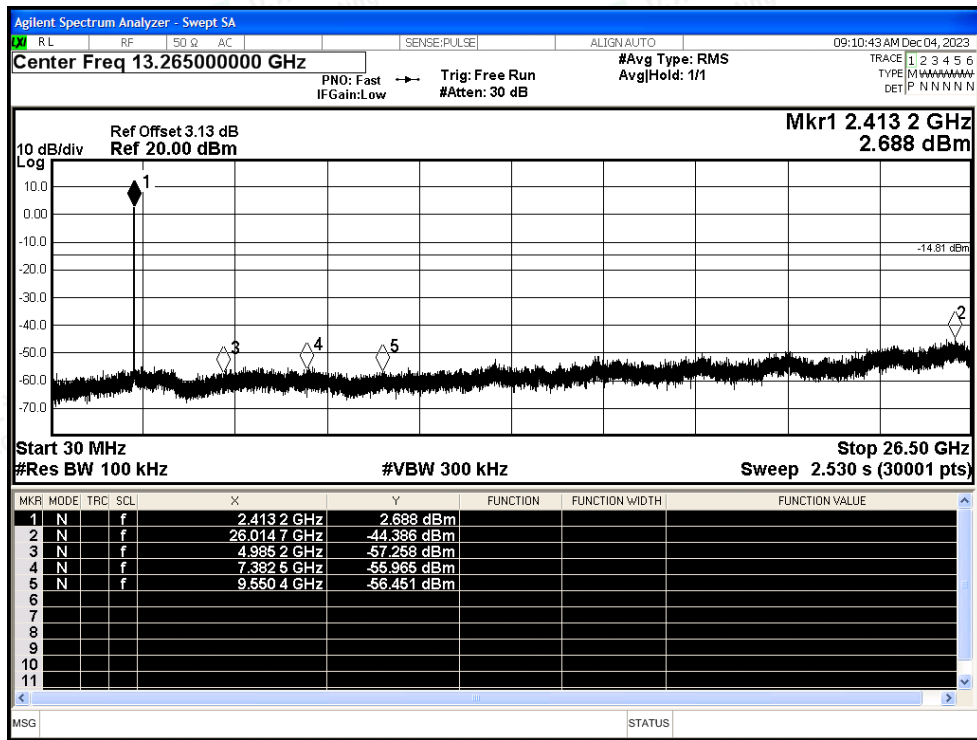


Test Graphs

Tx. Spurious NVNT b 2412MHz Ant Ref

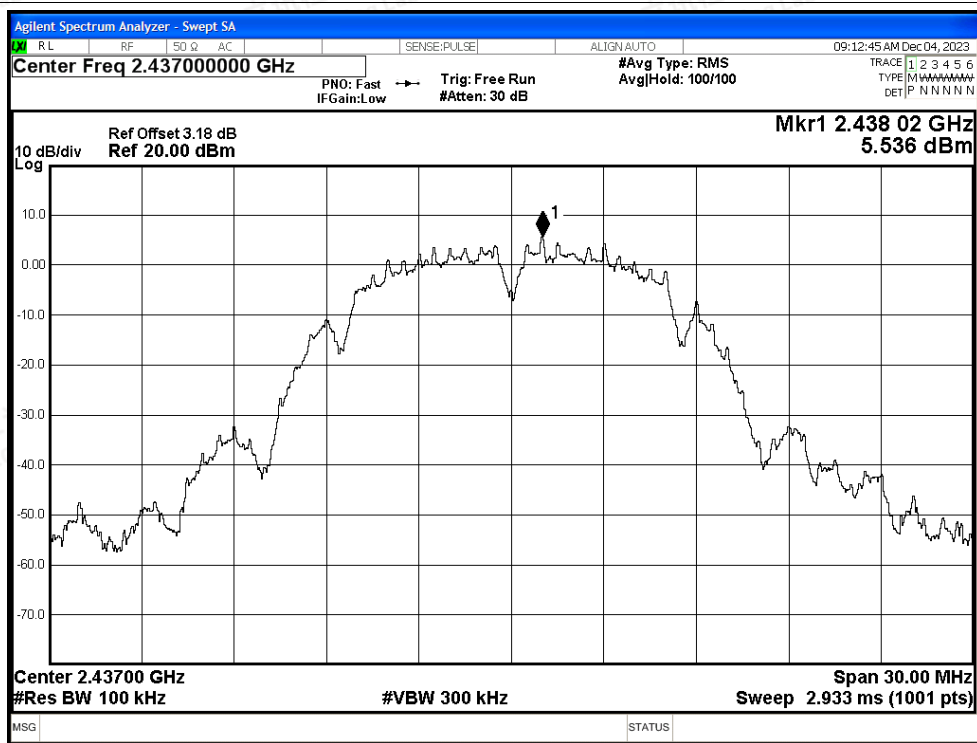


Tx. Spurious NVNT b 2412MHz Ant Emission

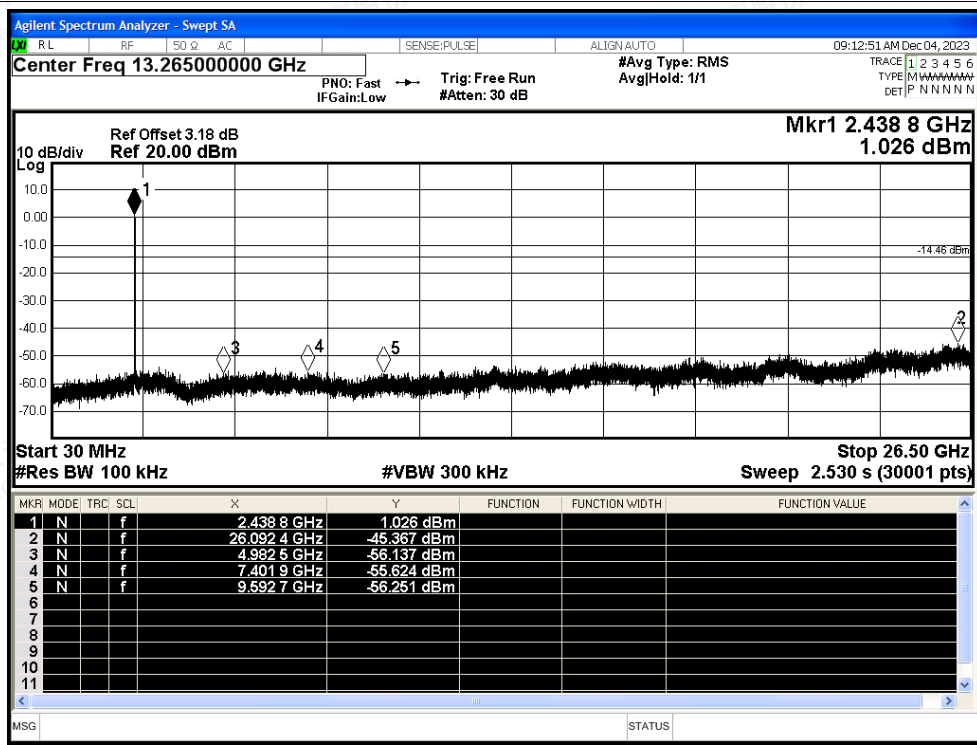




Tx. Spurious NVNT b 2437MHz Ant Ref



Tx. Spurious NVNT b 2437MHz Ant Emission

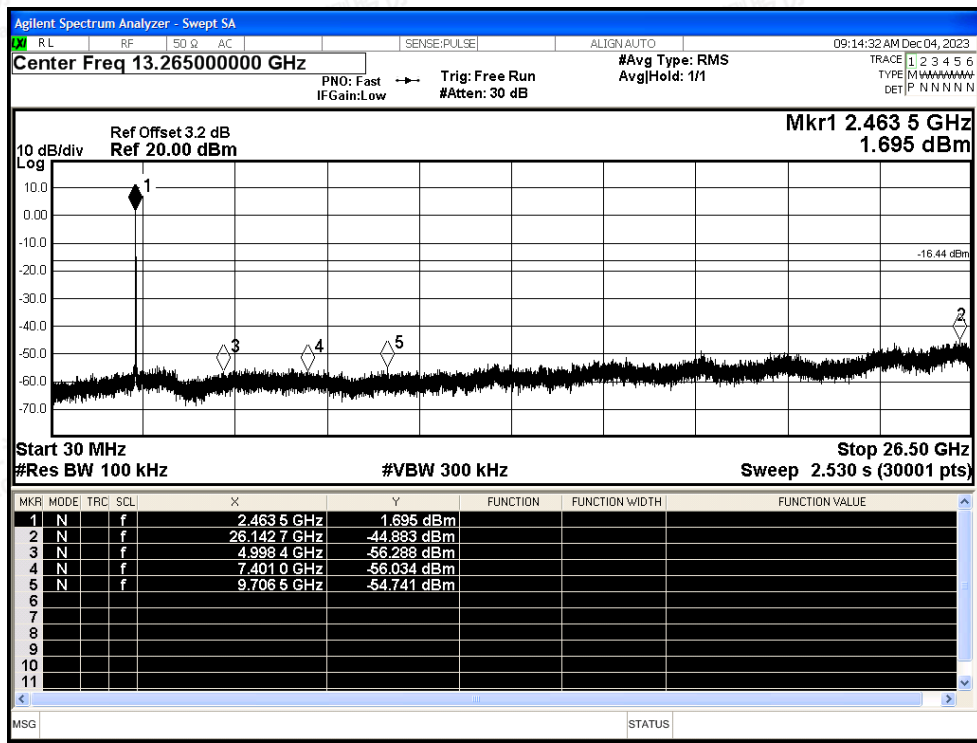




Tx. Spurious NVNT b 2462MHz Ant Ref

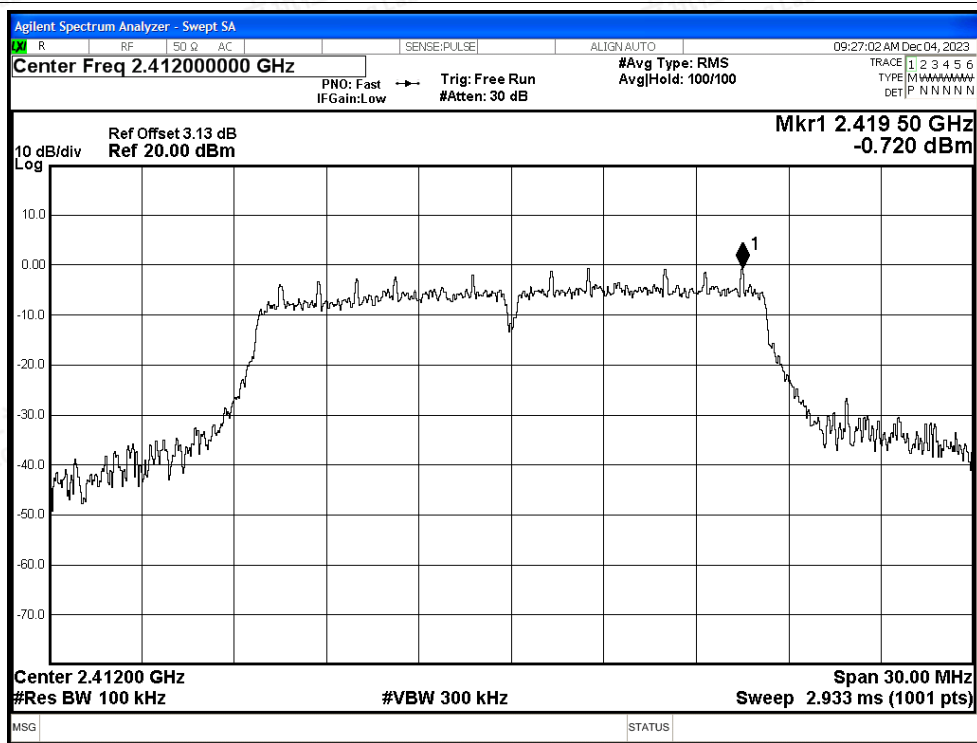


Tx. Spurious NVNT b 2462MHz Ant Emission

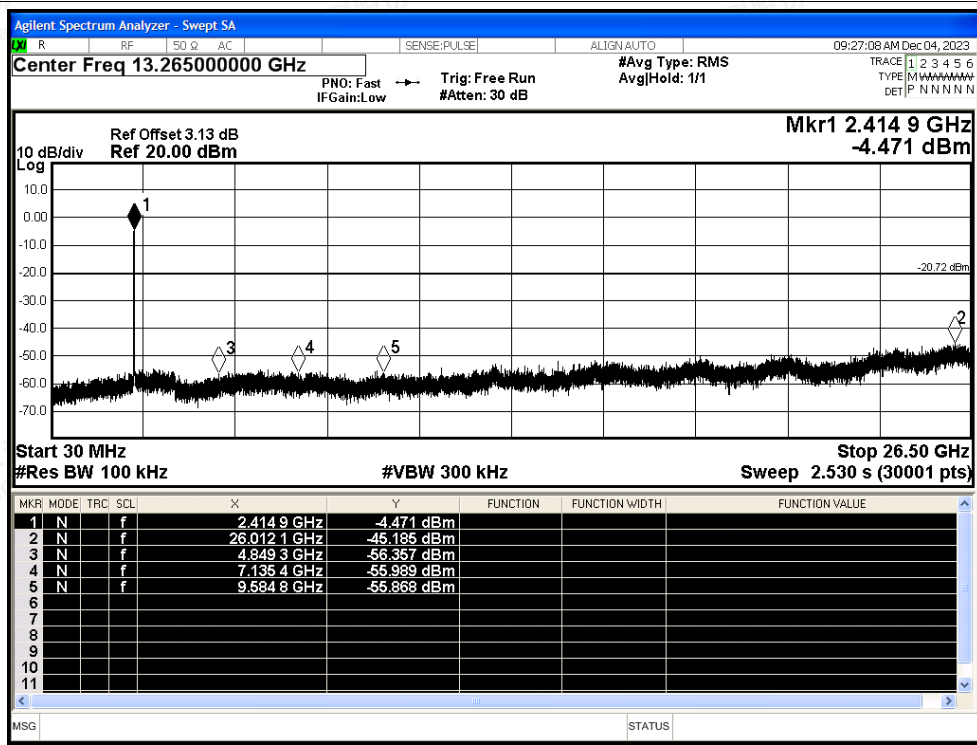




Tx. Spurious NVNT g 2412MHz Ant Ref

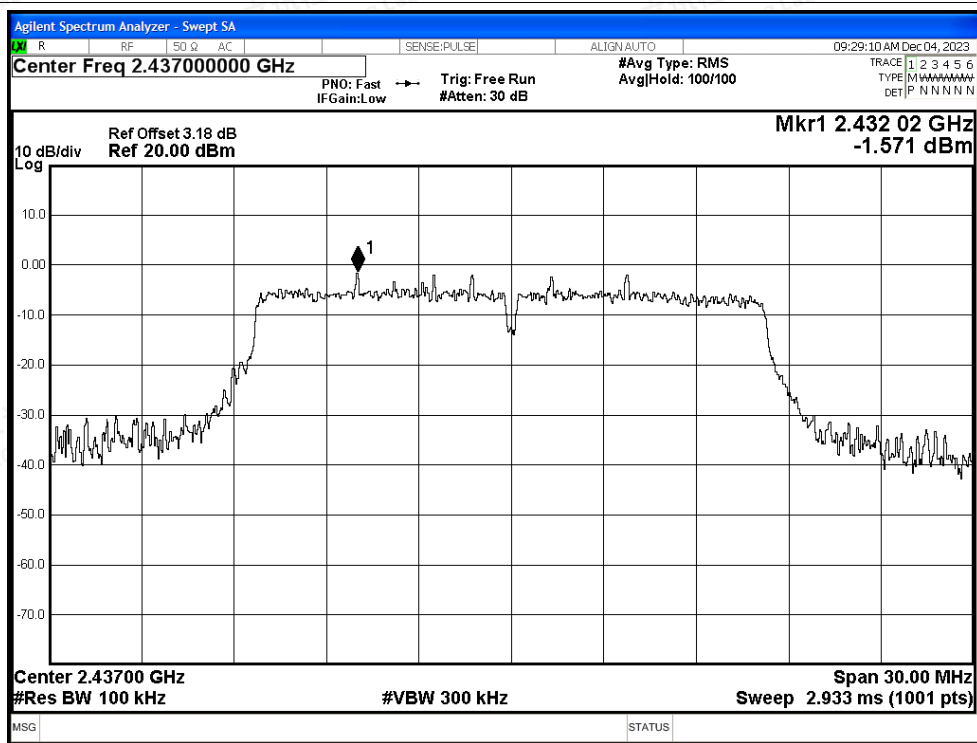


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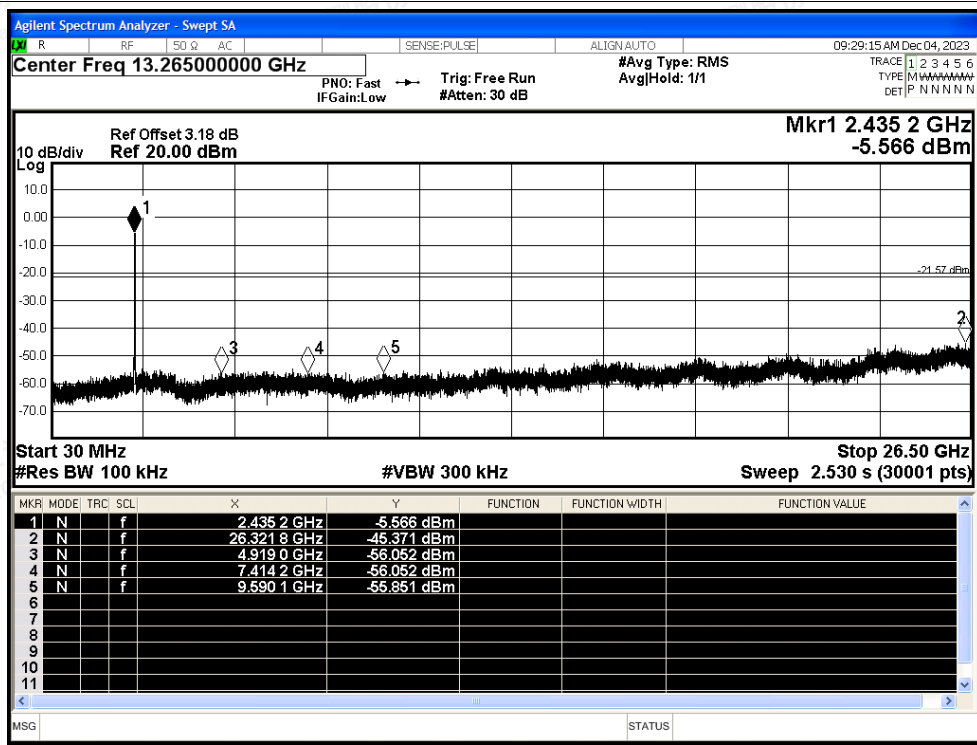




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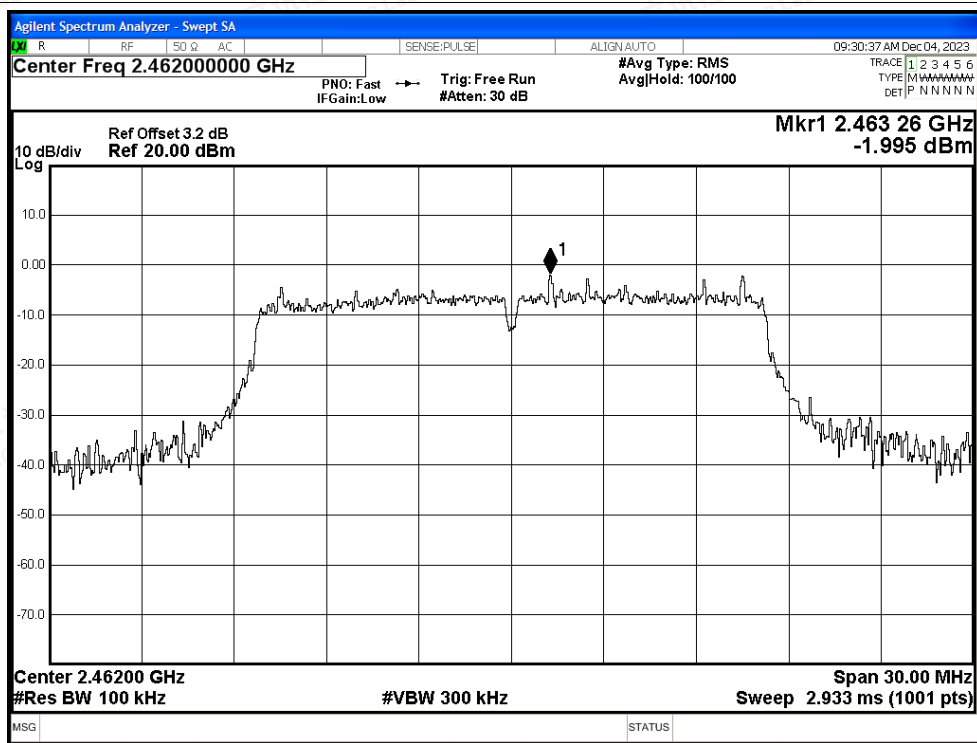


Tx. Spurious NVNT g 2437MHz Ant Emission

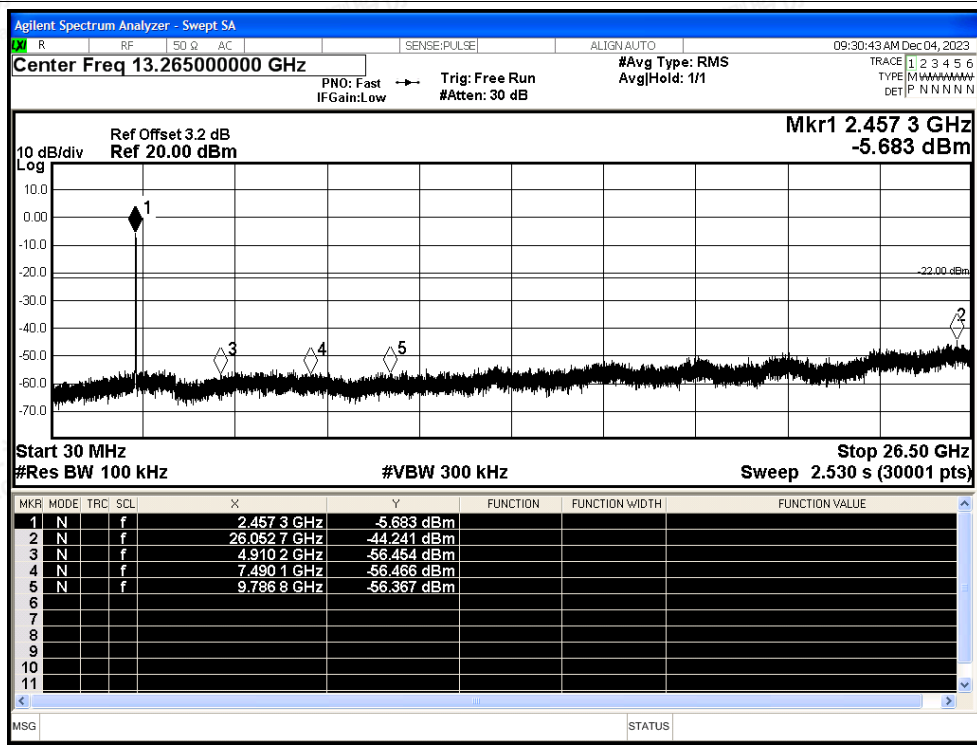




Tx. Spurious NVNT g 2462MHz Ant Ref

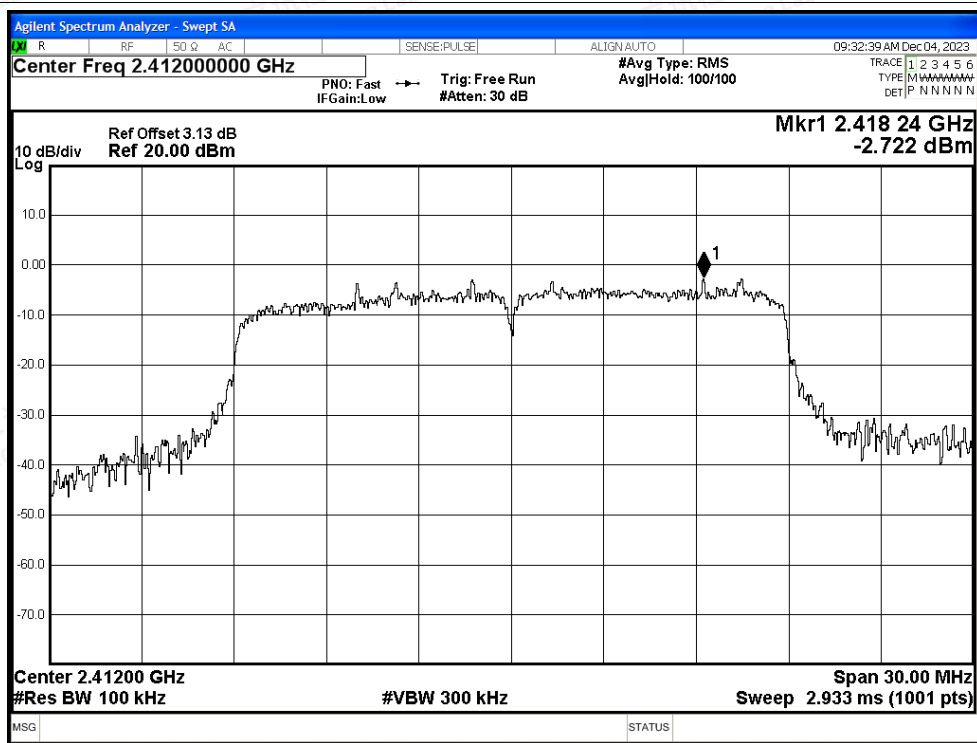


Tx. Spurious NVNT g 2462MHz Ant Emission

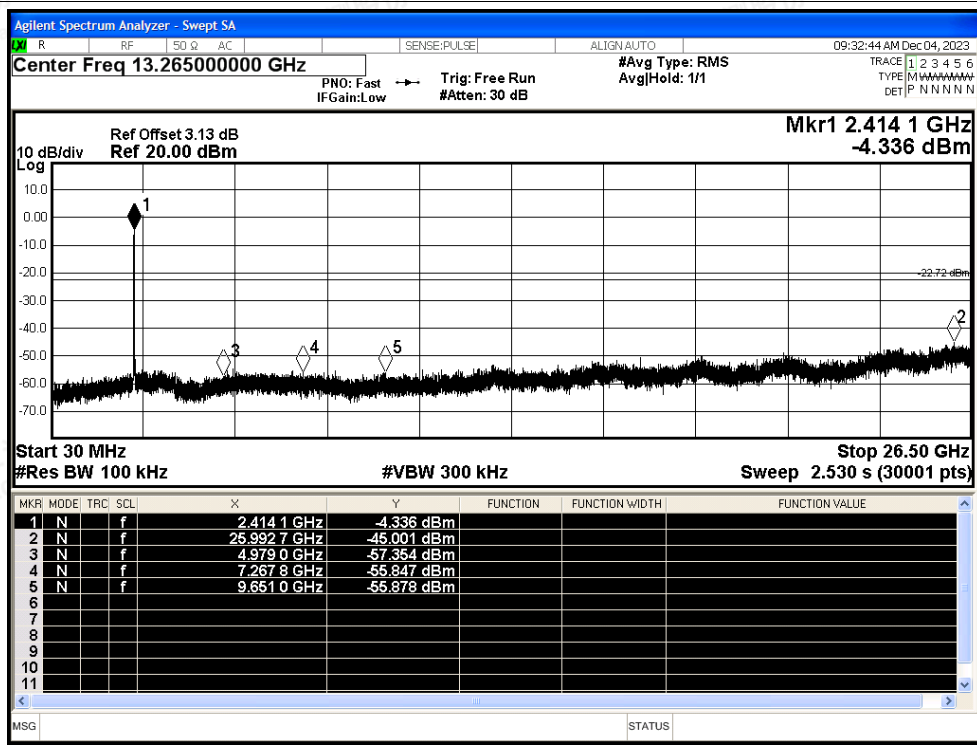




Tx. Spurious NVNT n20 2412MHz Ant Ref

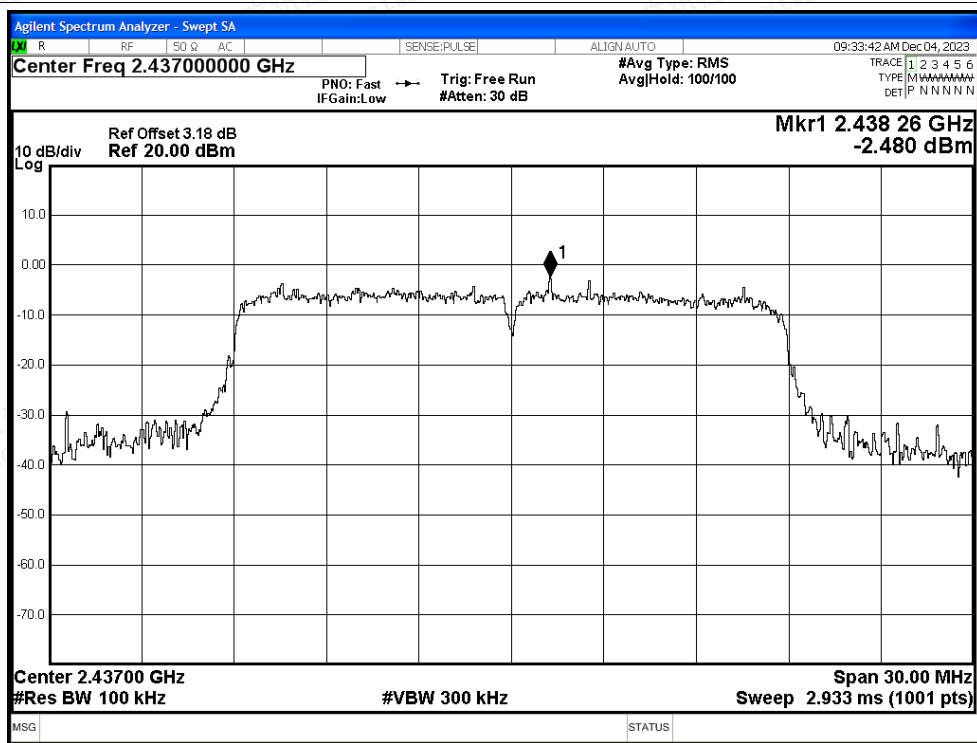


Tx. Spurious NVNT n20 2412MHz Ant Emission

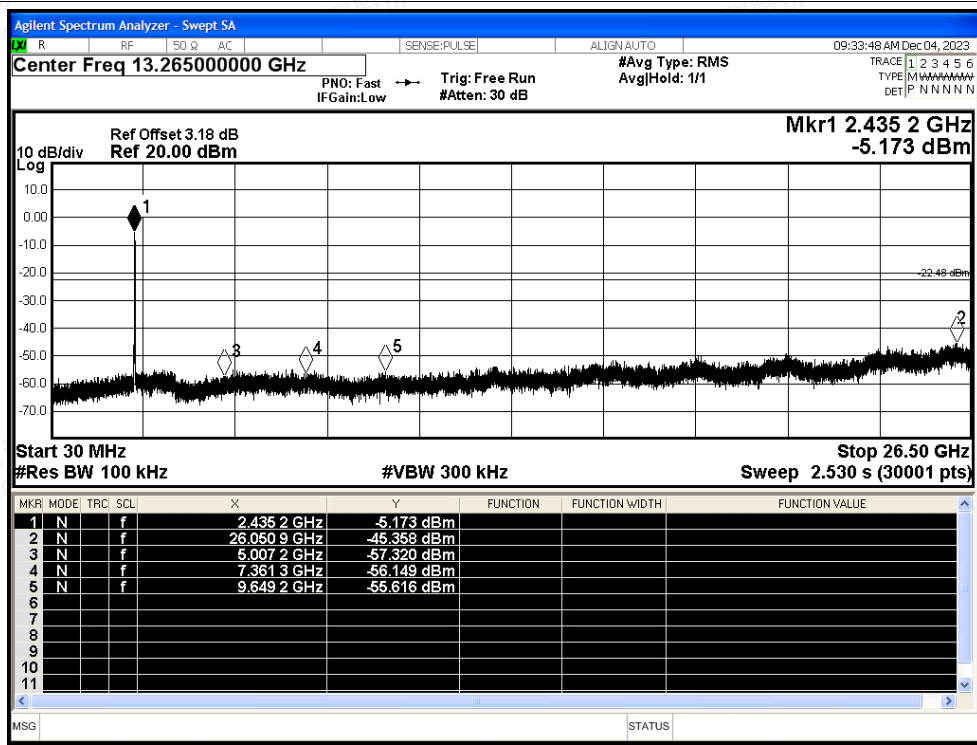




Tx. Spurious NVNT n20 2437MHz Ant Ref

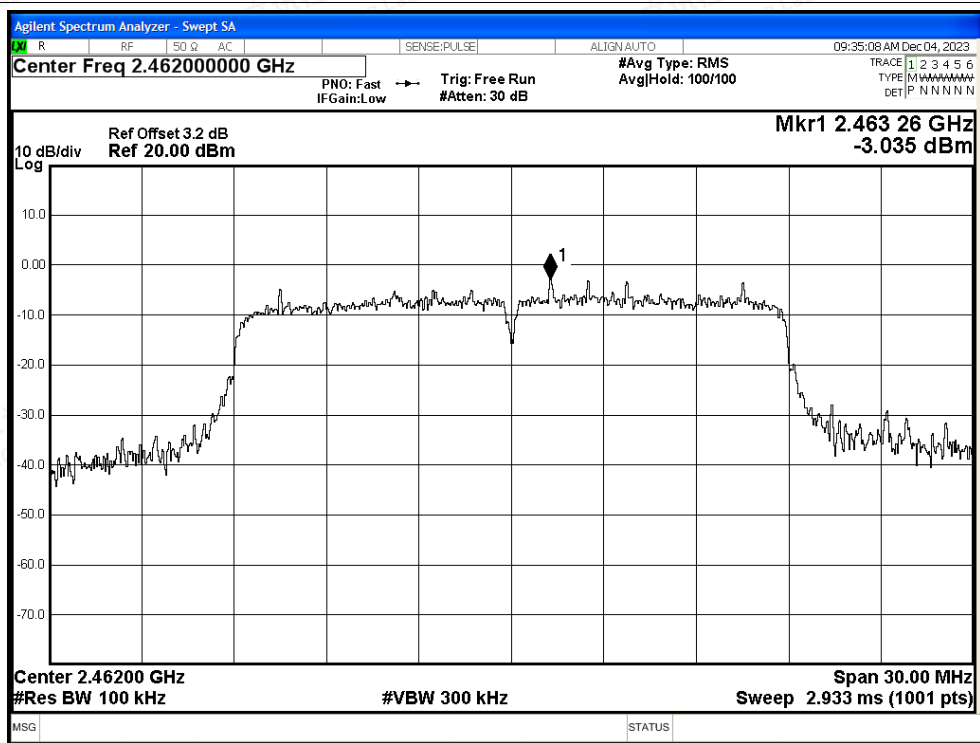


Tx. Spurious NVNT n20 2437MHz Ant Emission

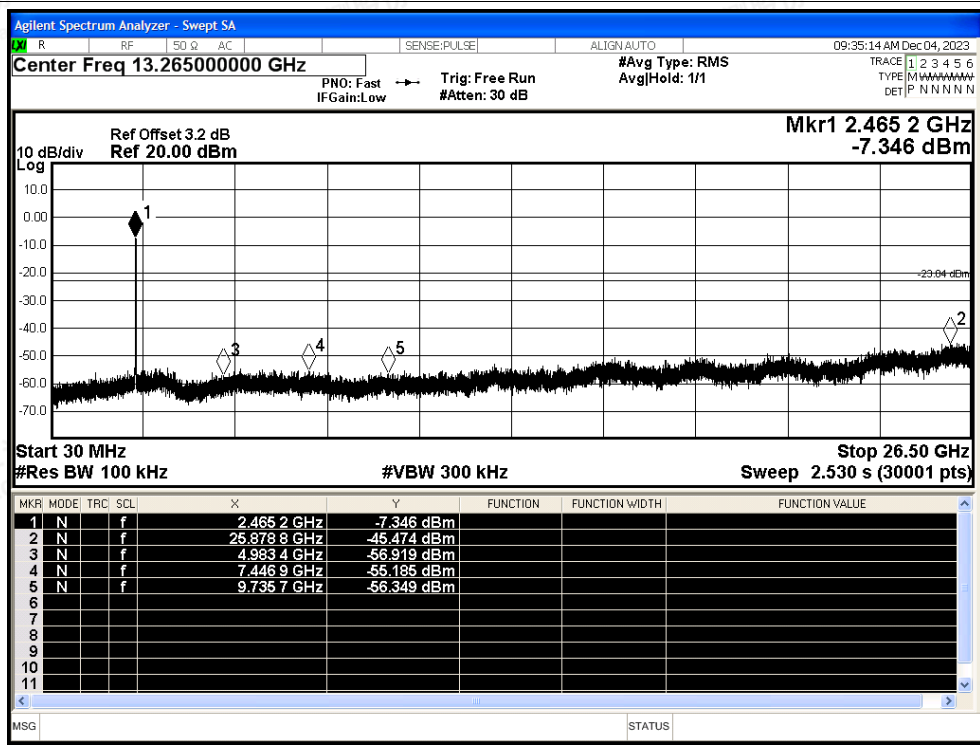




Tx. Spurious NVNT n20 2462MHz Ant Ref



Tx. Spurious NVNT n20 2462MHz Ant Emission





C.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant	99.34	0	0.12
NVNT	b	2437	Ant	99.34	0	0.12
NVNT	b	2462	Ant	99.32	0	0.12
NVNT	g	2412	Ant	95.62	0.19	0.72
NVNT	g	2437	Ant	95.75	0.19	0.72
NVNT	g	2462	Ant	95.75	0.19	0.72
NVNT	n20	2412	Ant	94.86	0.23	0.85
NVNT	n20	2437	Ant	95.02	0.22	0.85
NVNT	n20	2462	Ant	95.02	0.22	0.85

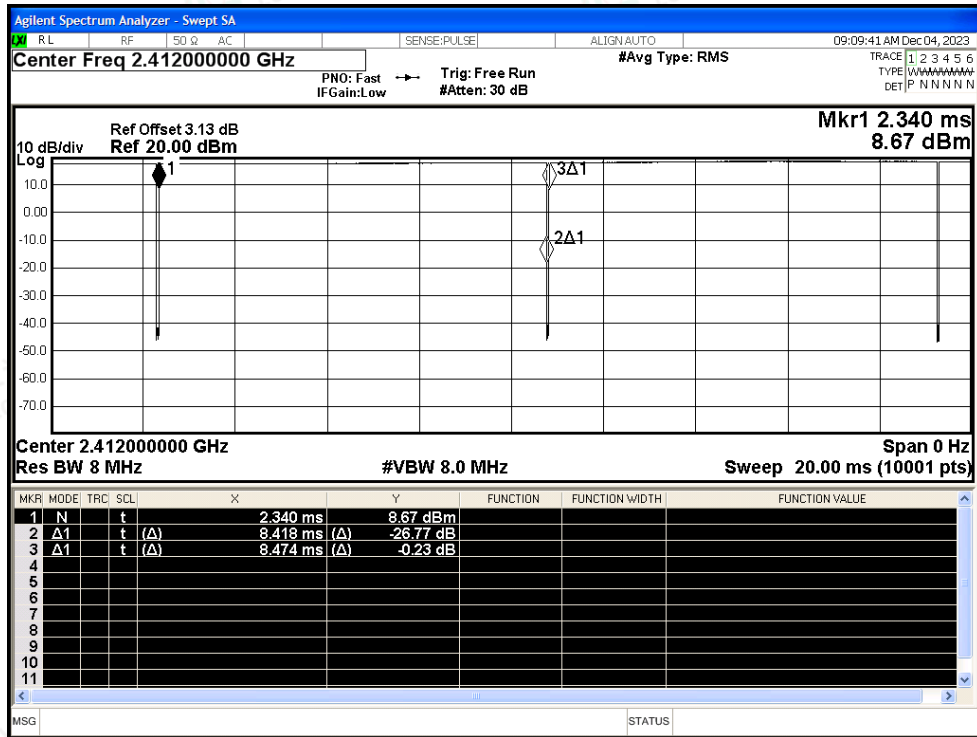


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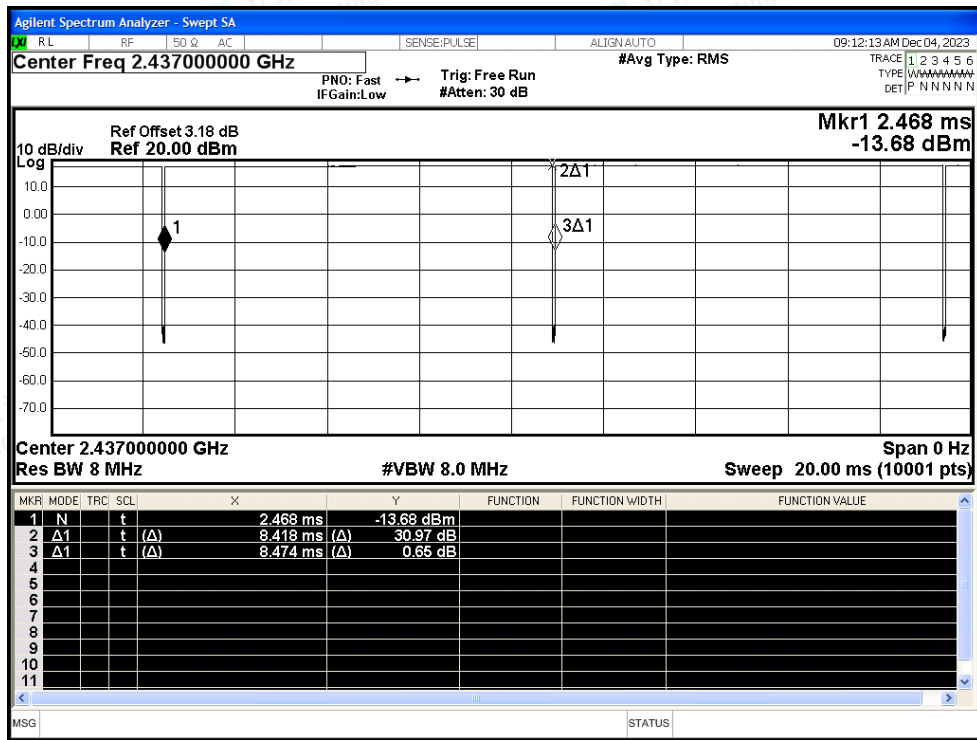


Test Graphs

Duty Cycle NVNT b 2412MHz Ant

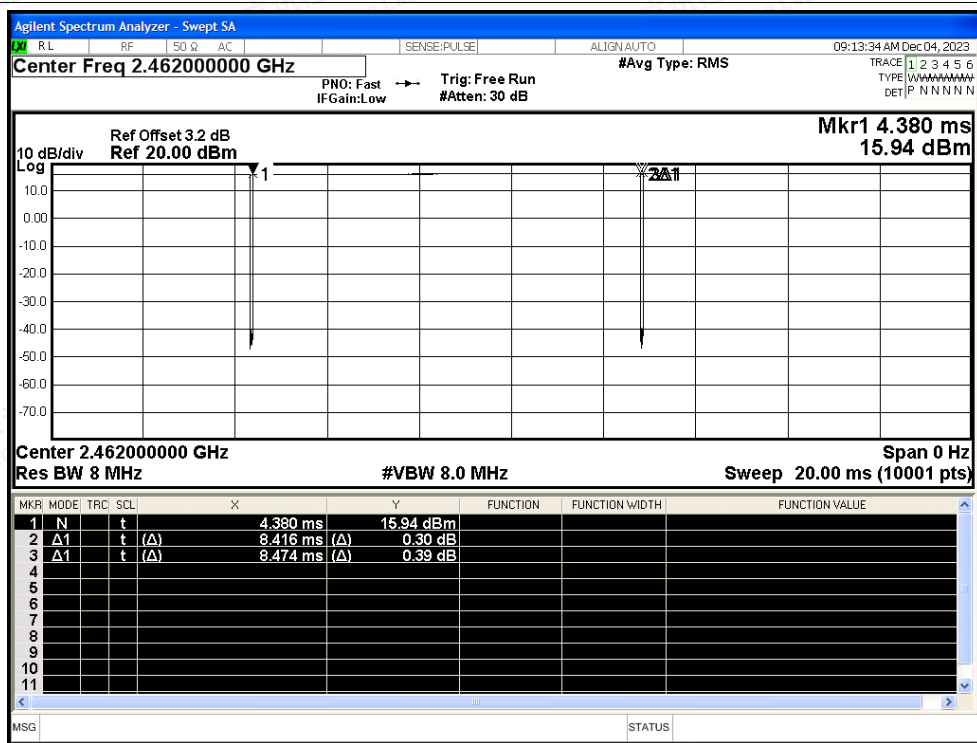


Duty Cycle NVNT b 2437MHz Ant

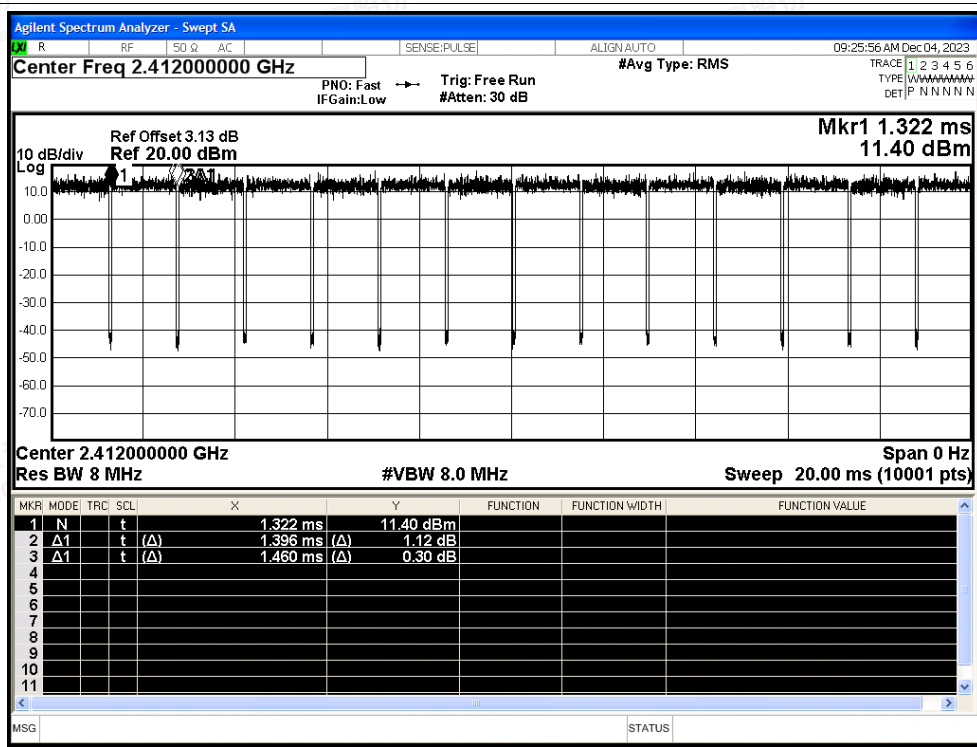




Duty Cycle NVNT b 2462MHz Ant

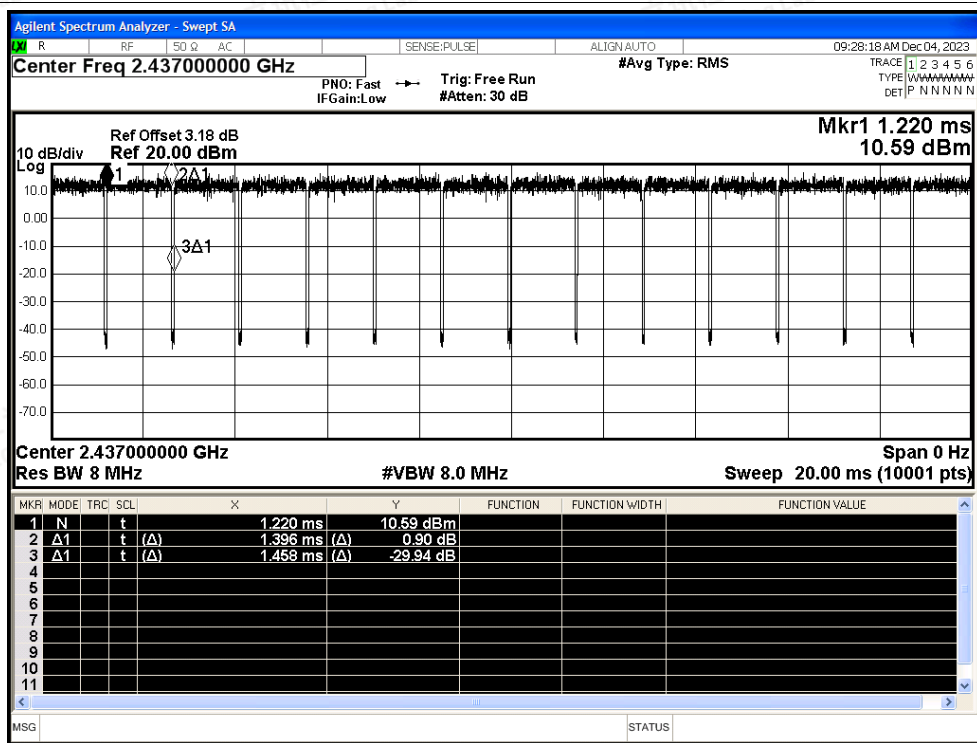


Duty Cycle NVNT g 2412MHz Ant

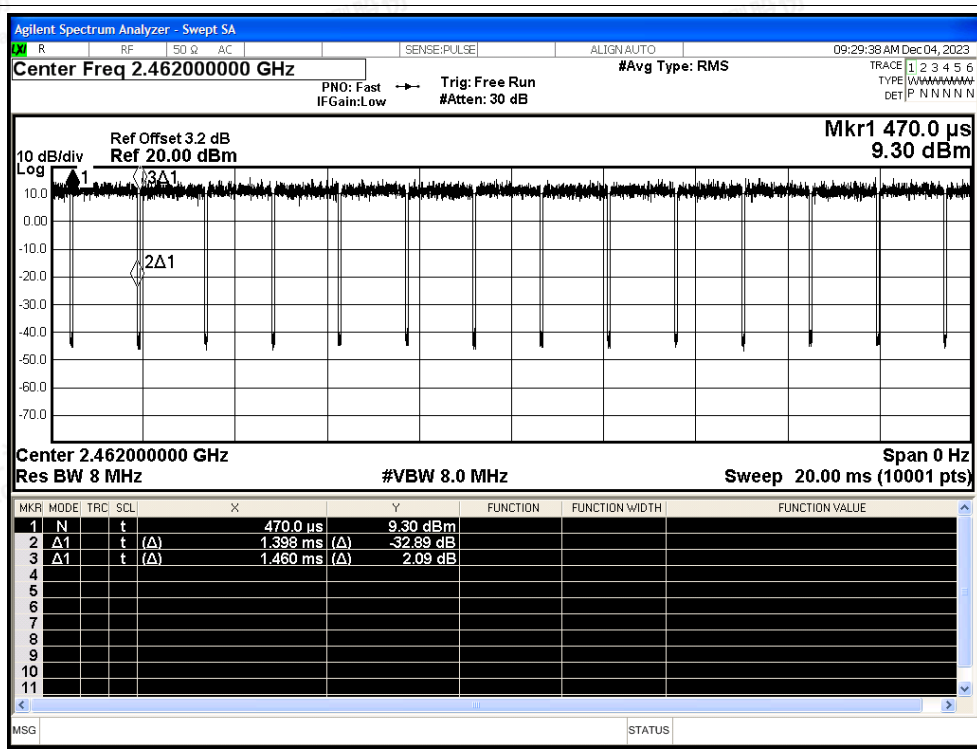




Duty Cycle NVNT g 2437MHz Ant

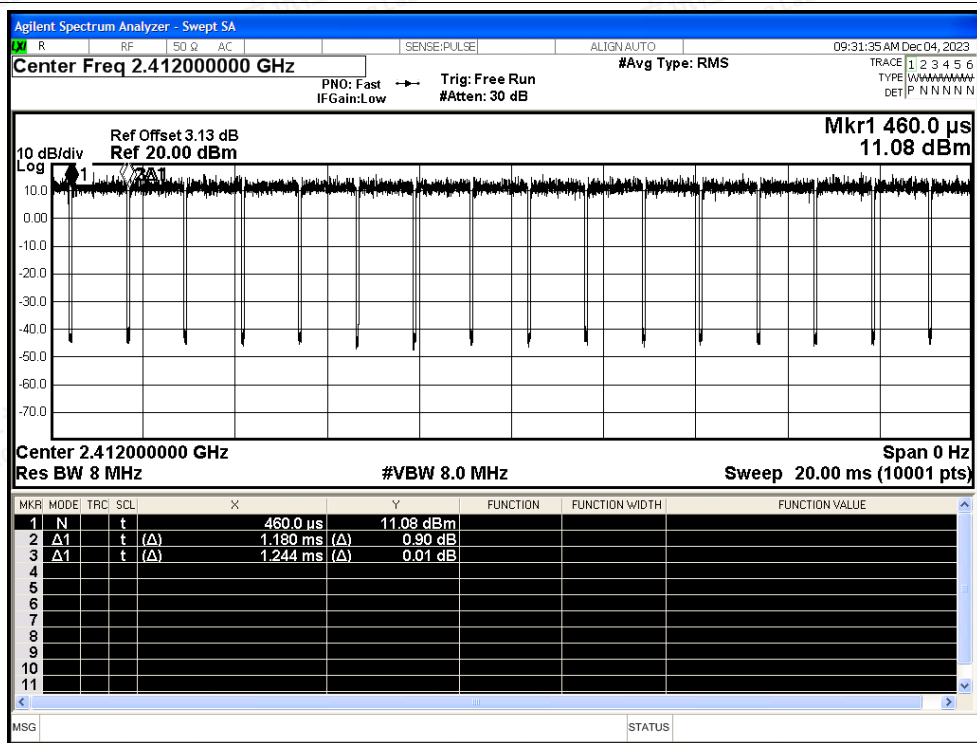


Duty Cycle NVNT g 2462MHz Ant

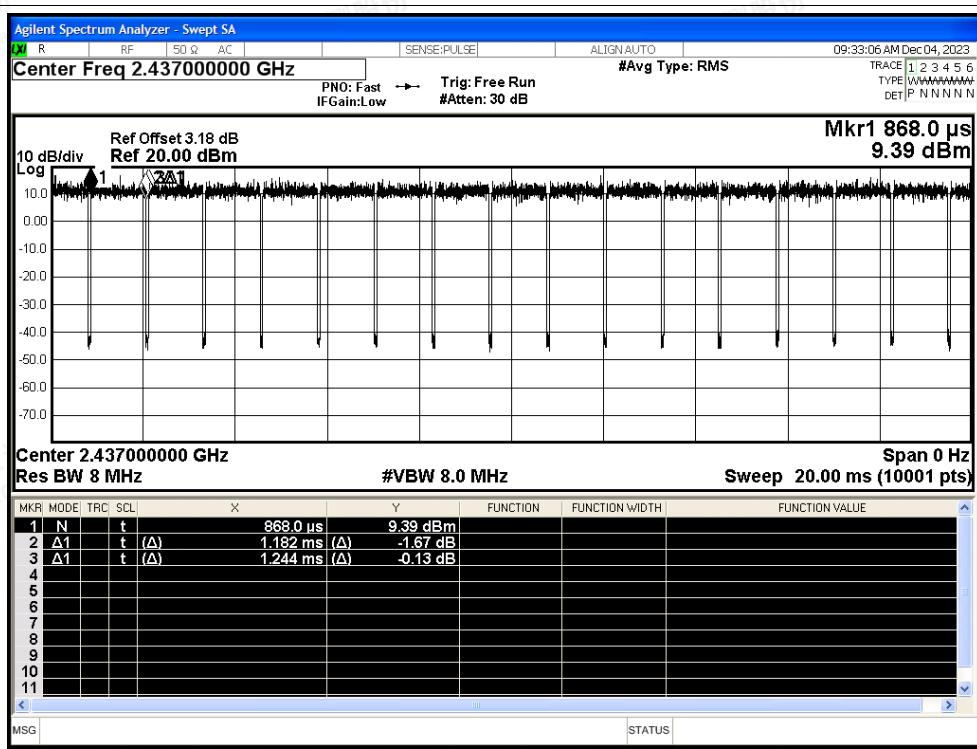




Duty Cycle NVNT n20 2412MHz Ant

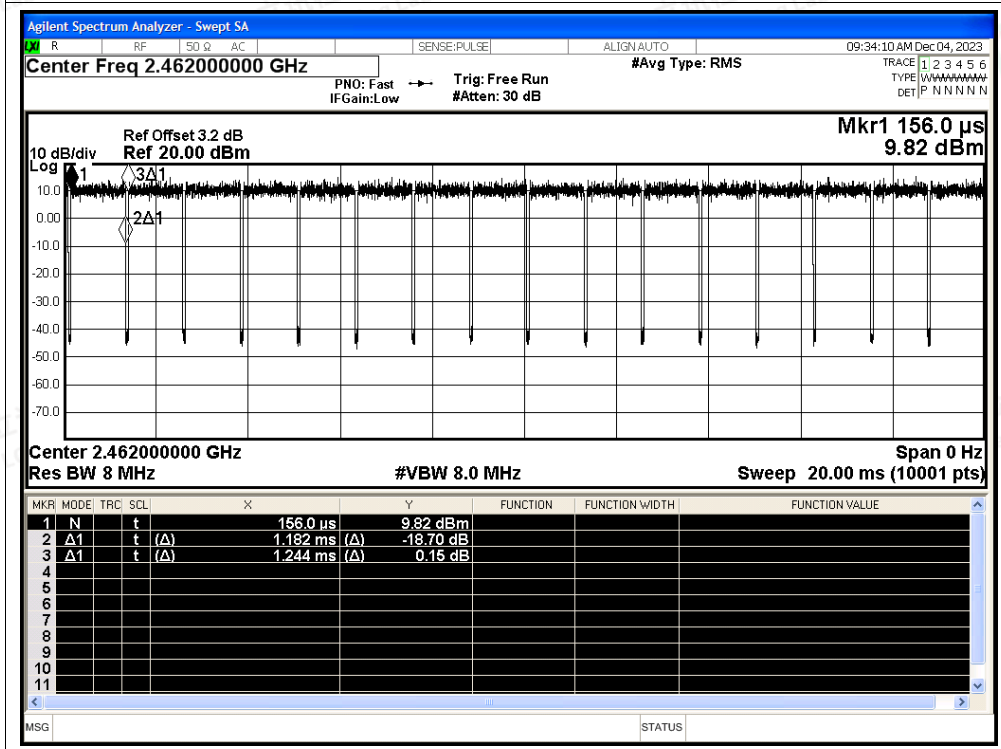


Duty Cycle NVNT n20 2437MHz Ant





Duty Cycle NVNT n20 2462MHz Ant





C.7 Restrict Band

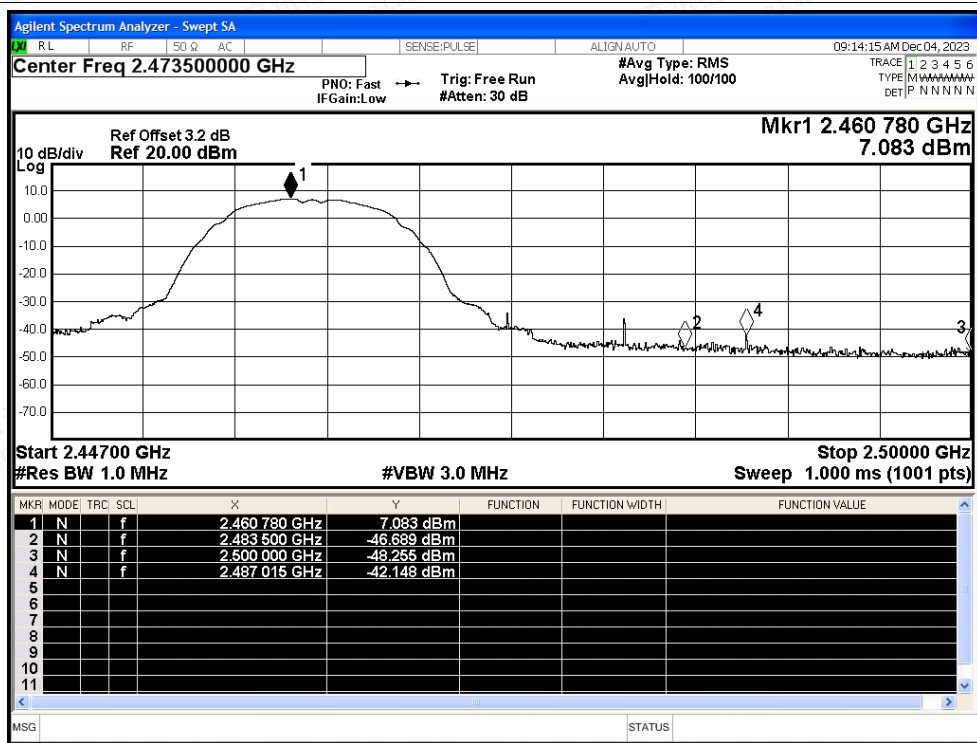
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	b	2412	Ant	2310	-47.93	2	49.33	Peak	74	Pass
NVNT	b	2412	Ant	2310	-56.99	2	40.27	Average	54	Pass
NVNT	b	2412	Ant	2388.741	-45.37	2	51.89	Peak	74	Pass
NVNT	b	2412	Ant	2389.326	-53.79	2	43.47	Average	54	Pass
NVNT	b	2412	Ant	2390	-46.48	2	50.78	Peak	74	Pass
NVNT	b	2412	Ant	2390	-54.4	2	42.86	Average	54	Pass
NVNT	b	2462	Ant	2483.5	-46.69	2	50.57	Peak	74	Pass
NVNT	b	2462	Ant	2483.5	-54.12	2	43.14	Average	54	Pass
NVNT	b	2462	Ant	2487.015	-42.15	2	55.11	Peak	74	Pass
NVNT	b	2462	Ant	2484.577	-53.78	2	43.48	Average	54	Pass
NVNT	b	2462	Ant	2500	-48.26	2	49	Peak	74	Pass
NVNT	b	2462	Ant	2500	-56.3	2	40.96	Average	54	Pass
NVNT	g	2412	Ant	2310	-49.23	2	48.03	Peak	74	Pass
NVNT	g	2412	Ant	2310	-56.51	2	40.75	Average	54	Pass
NVNT	g	2412	Ant	2389.677	-41.57	2	55.69	Peak	74	Pass
NVNT	g	2412	Ant	2389.911	-52.84	2	44.42	Average	54	Pass
NVNT	g	2412	Ant	2390	-45.57	2	51.69	Peak	74	Pass
NVNT	g	2412	Ant	2390	-52.98	2	44.28	Average	54	Pass
NVNT	g	2462	Ant	2483.5	-33.1	2	64.16	Peak	74	Pass
NVNT	g	2462	Ant	2483.5	-45.65	2	51.61	Average	54	Pass
NVNT	g	2462	Ant	2484.736	-31.39	2	65.87	Peak	74	Pass
NVNT	g	2462	Ant	2483.623	-45.08	2	52.18	Average	54	Pass
NVNT	g	2462	Ant	2500	-49.05	2	48.21	Peak	74	Pass
NVNT	g	2462	Ant	2500	-55.95	2	41.31	Average	54	Pass
NVNT	n20	2412	Ant	2310	-49.33	2	47.93	Peak	74	Pass
NVNT	n20	2412	Ant	2310	-56.18	2	41.08	Average	54	Pass
NVNT	n20	2412	Ant	2389.326	-40.13	2	57.13	Peak	74	Pass
NVNT	n20	2412	Ant	2389.794	-52.24	2	45.02	Average	54	Pass
NVNT	n20	2412	Ant	2390	-42.15	2	55.11	Peak	74	Pass
NVNT	n20	2412	Ant	2390	-51.77	2	45.49	Average	54	Pass
NVNT	n20	2462	Ant	2483.5	-30.93	2	66.33	Peak	74	Pass
NVNT	n20	2462	Ant	2483.5	-49.11	2	48.15	Average	54	Pass
NVNT	n20	2462	Ant	2483.517	-30.93	2	66.33	Peak	74	Pass
NVNT	n20	2462	Ant	2483.623	-48.29	2	48.97	Average	54	Pass
NVNT	n20	2462	Ant	2500	-49.72	2	47.54	Peak	74	Pass
NVNT	n20	2462	Ant	2500	-55.81	2	41.45	Average	54	Pass



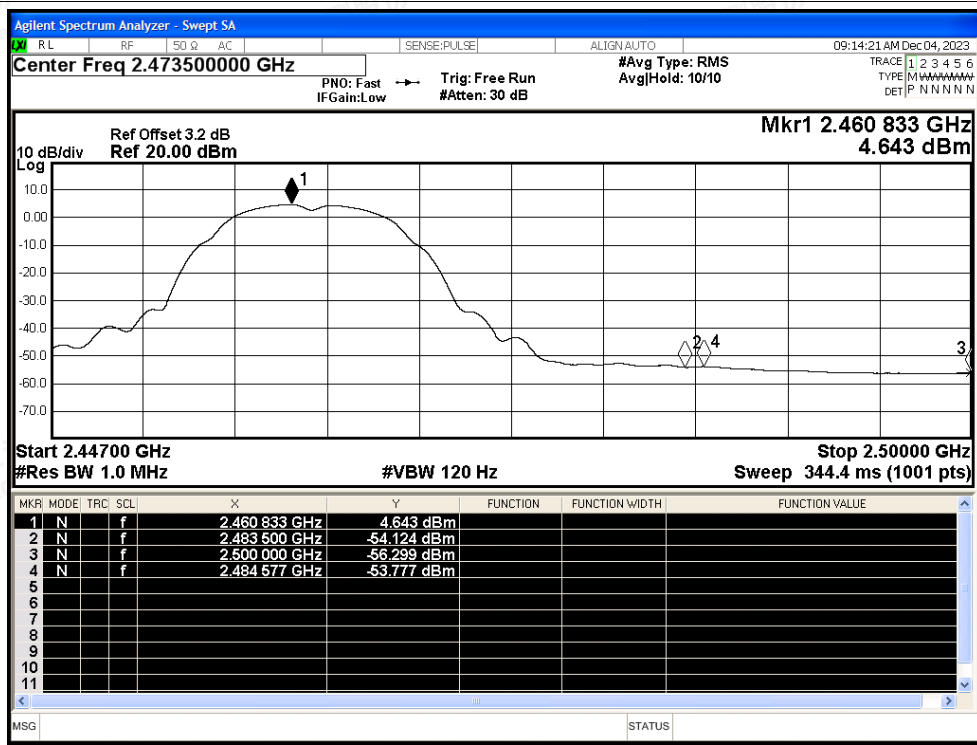
Shenzhen LCS Compliance Testing Laboratory Ltd.
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
 Scan code to check authenticity



Restrict Band NVNT b 2462MHz Ant Peak

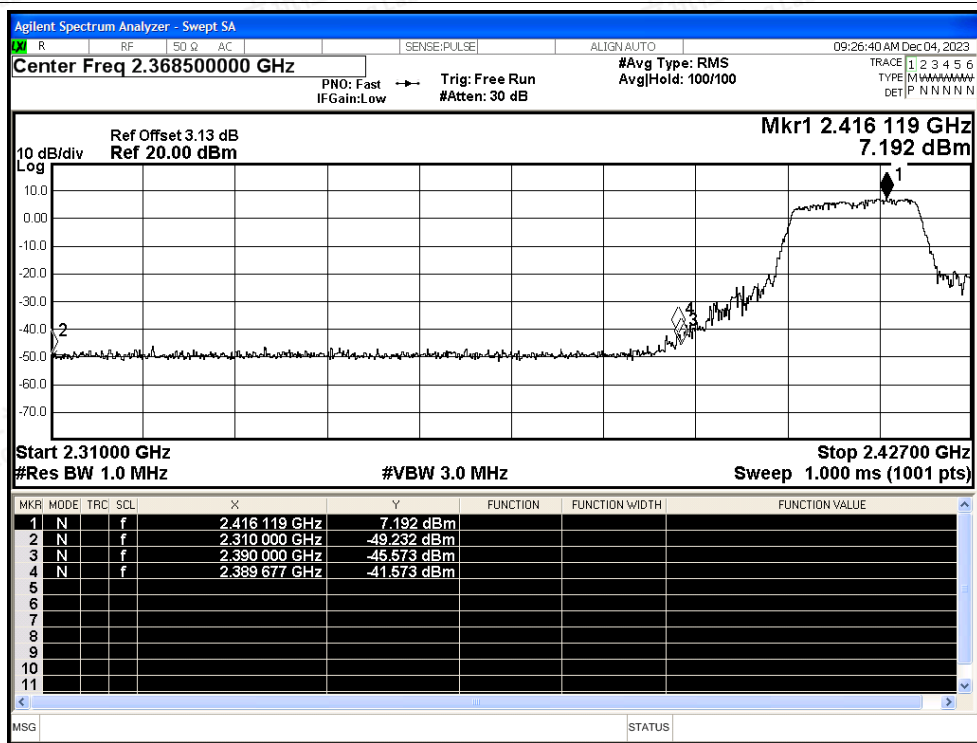


Restrict Band NVNT b 2462MHz Ant Average

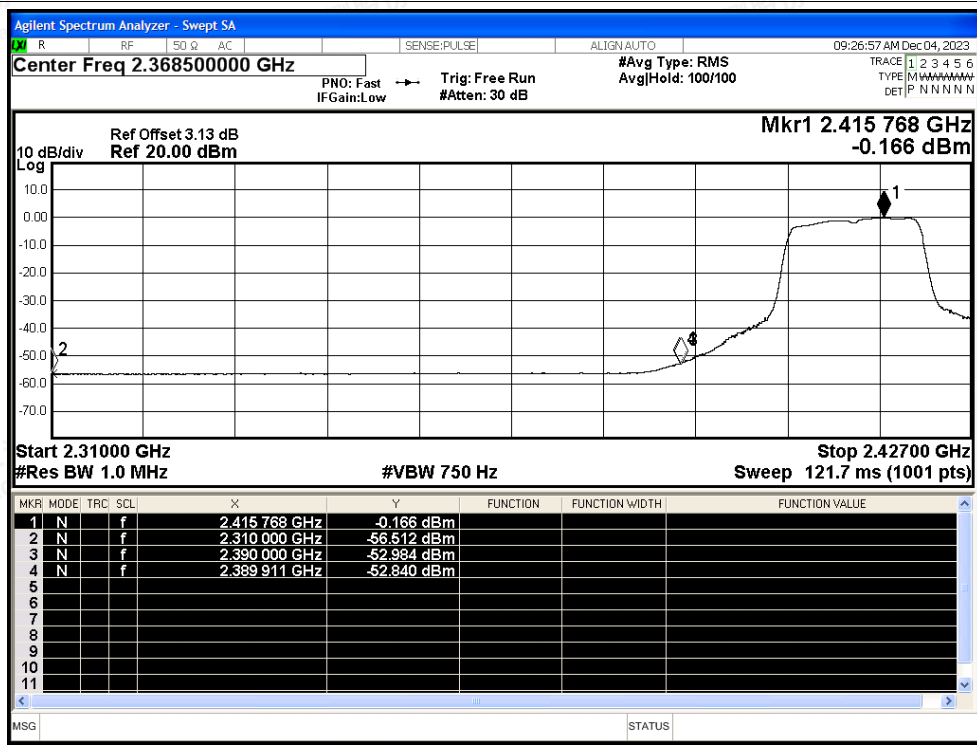




Restrict Band NVNT g 2412MHz Ant Peak

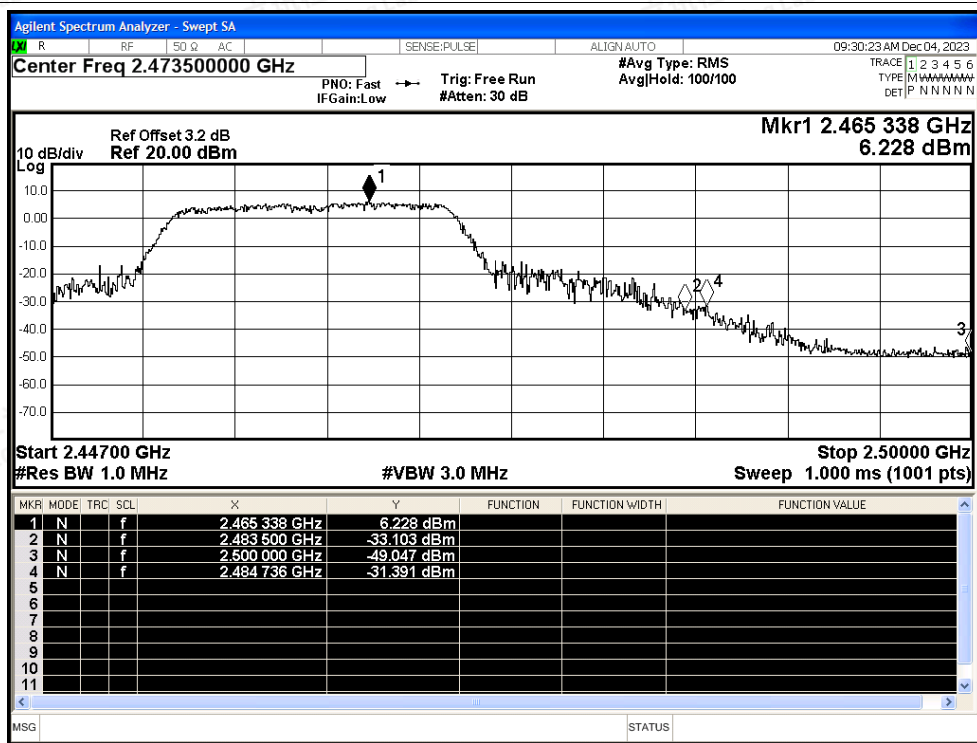


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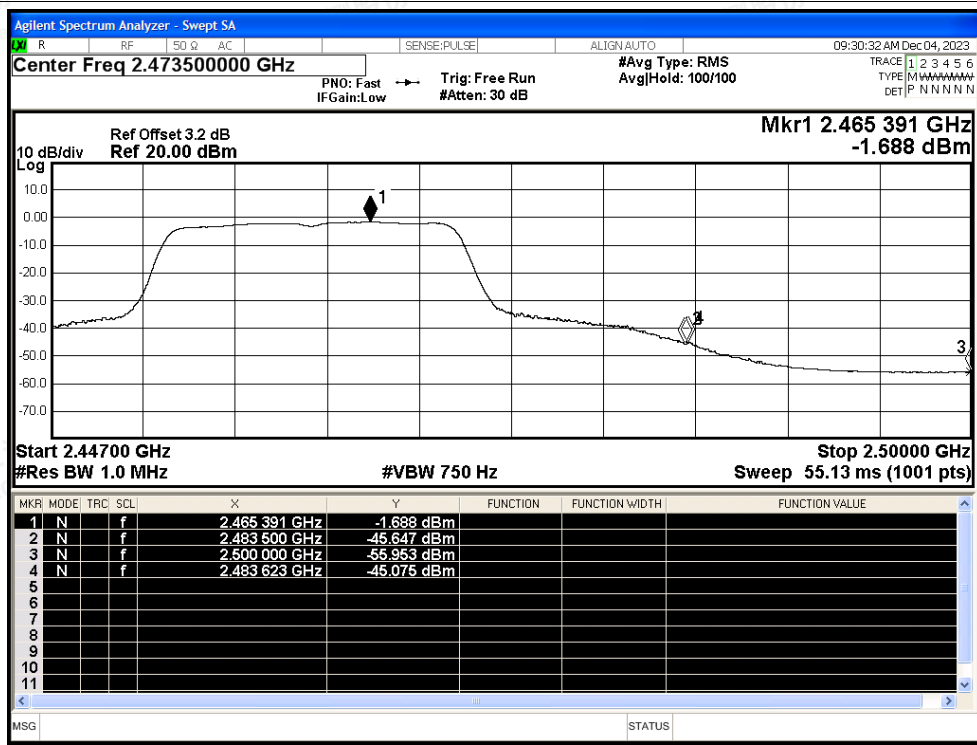




Restrict Band NVNT g 2462MHz Ant Peak

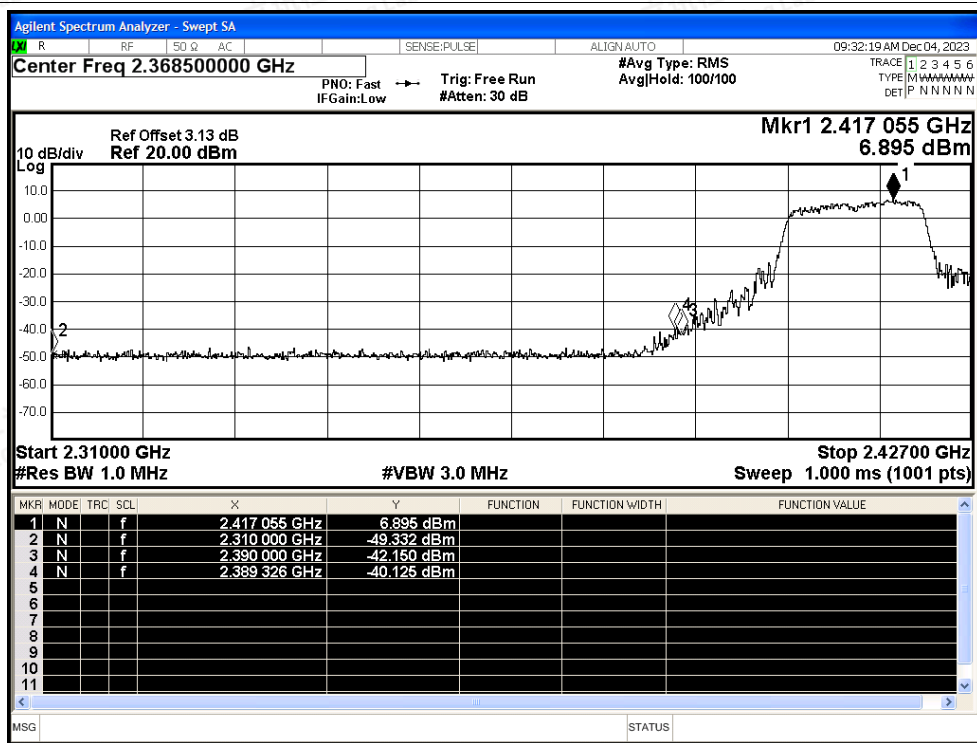


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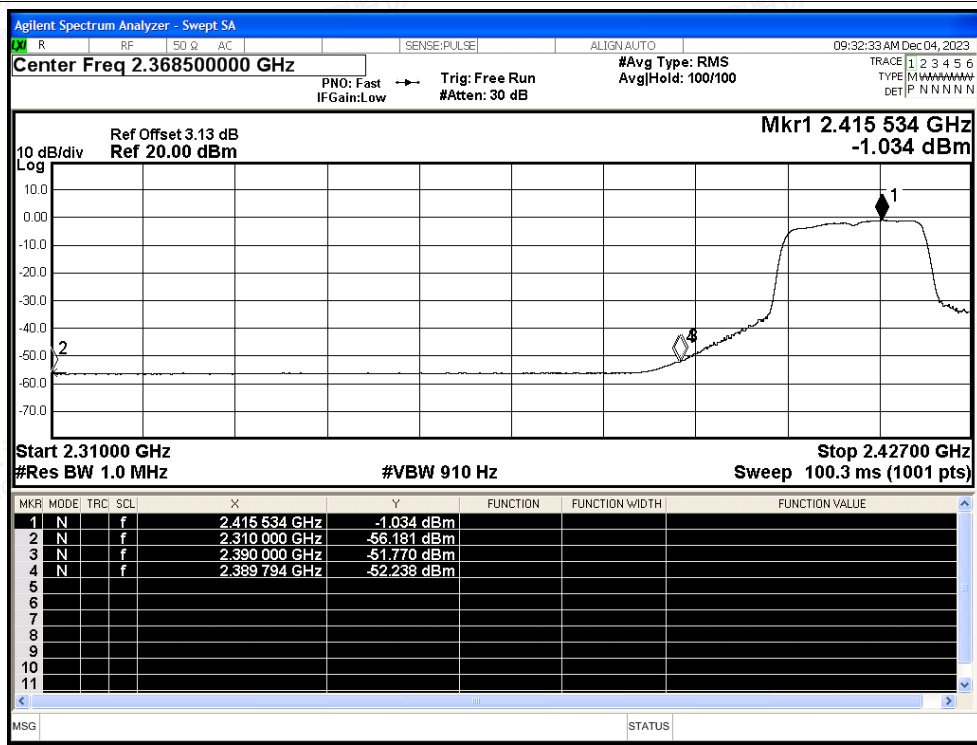




Restrict Band NVNT n20 2412MHz Ant Peak

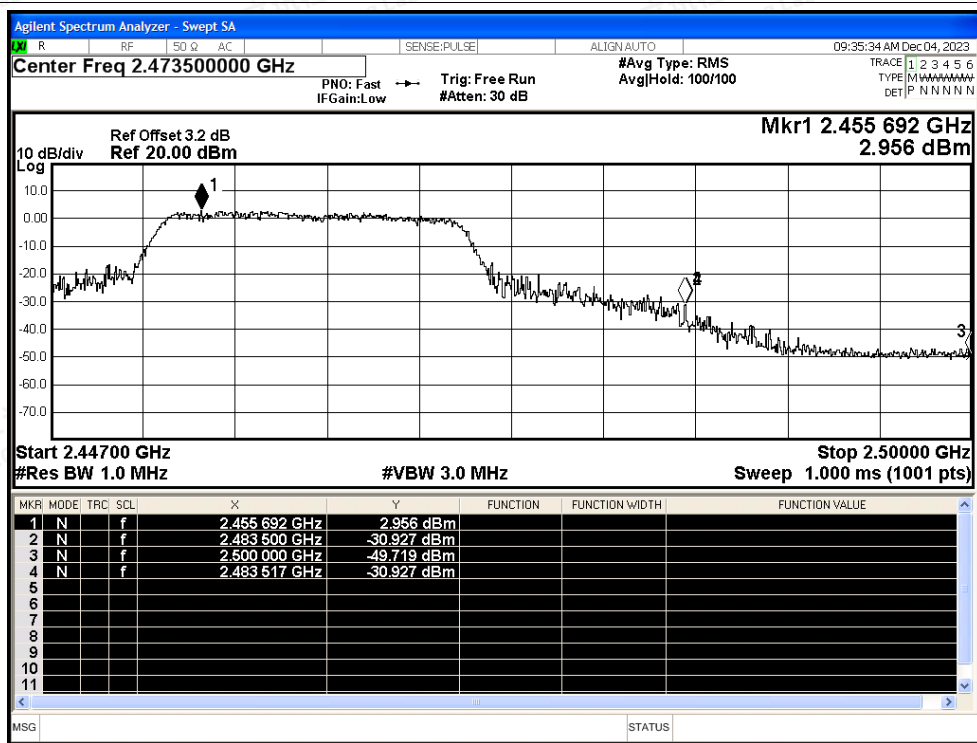


Restrict Band NVNT n20 2412MHz Ant Average





Restrict Band NVNT n20 2462MHz Ant Peak



Restrict Band NVNT n20 2462MHz Ant Average

