



Appendix A

RF Test Data (Conducted Measurement)

Product Name: Transceiver Module

Test Model: RC-CC1101-SPI-SMT-915

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Taylor Hu
Supervised by:	Li Huan





A.1 -6dB Bandwidth

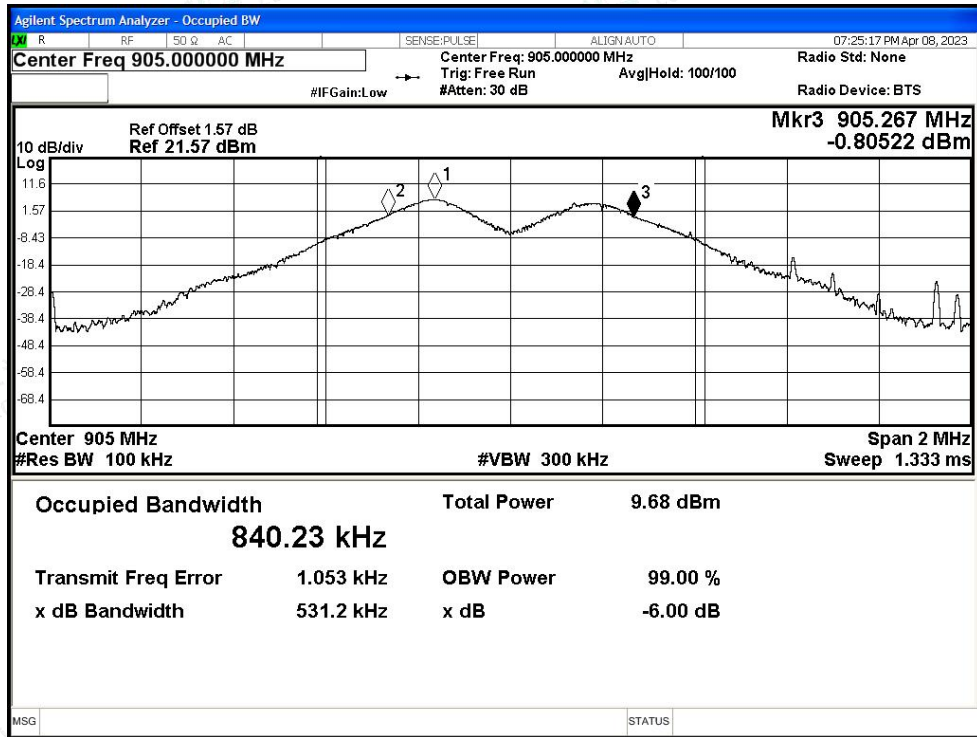
Condition	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	905	Ant1	0.531	≥ 0.5	Pass
NVNT	915	Ant1	0.537	≥ 0.5	Pass
NVNT	925	Ant1	0.53	≥ 0.5	Pass



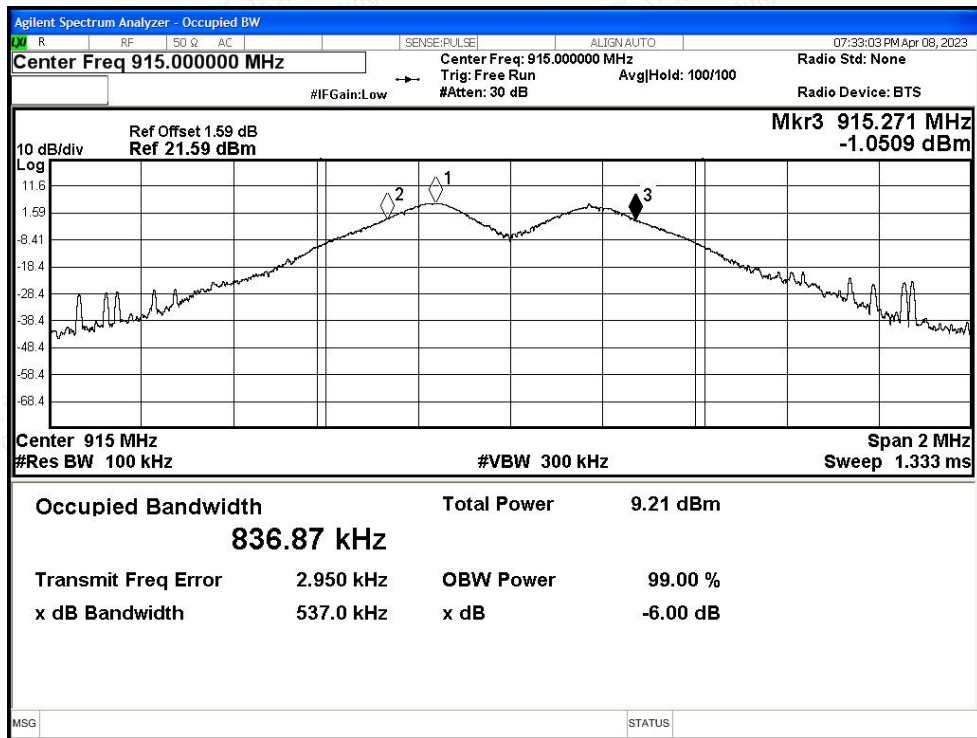


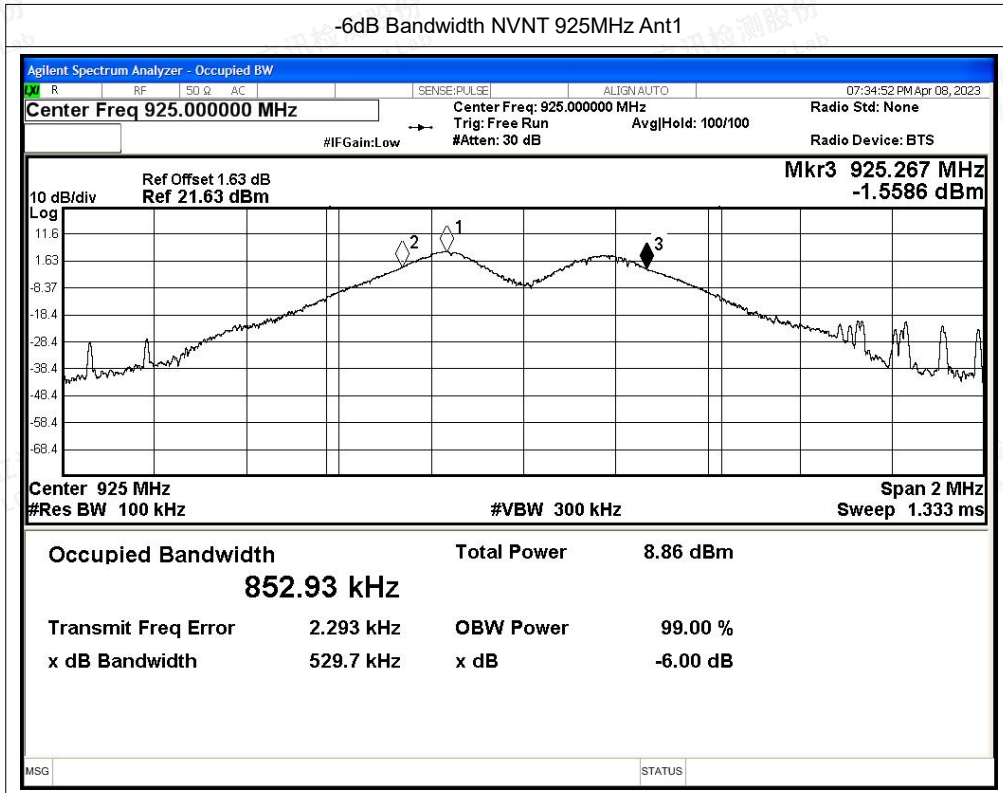
Test Graphs

-6dB Bandwidth NVNT 905MHz Ant1



-6dB Bandwidth NVNT 915MHz Ant1







A.2 Maximum Conducted Output Power

Condition	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	905	Ant1	6.05	30	Pass
NVNT	915	Ant1	5.24	30	Pass
NVNT	925	Ant1	5.07	30	Pass

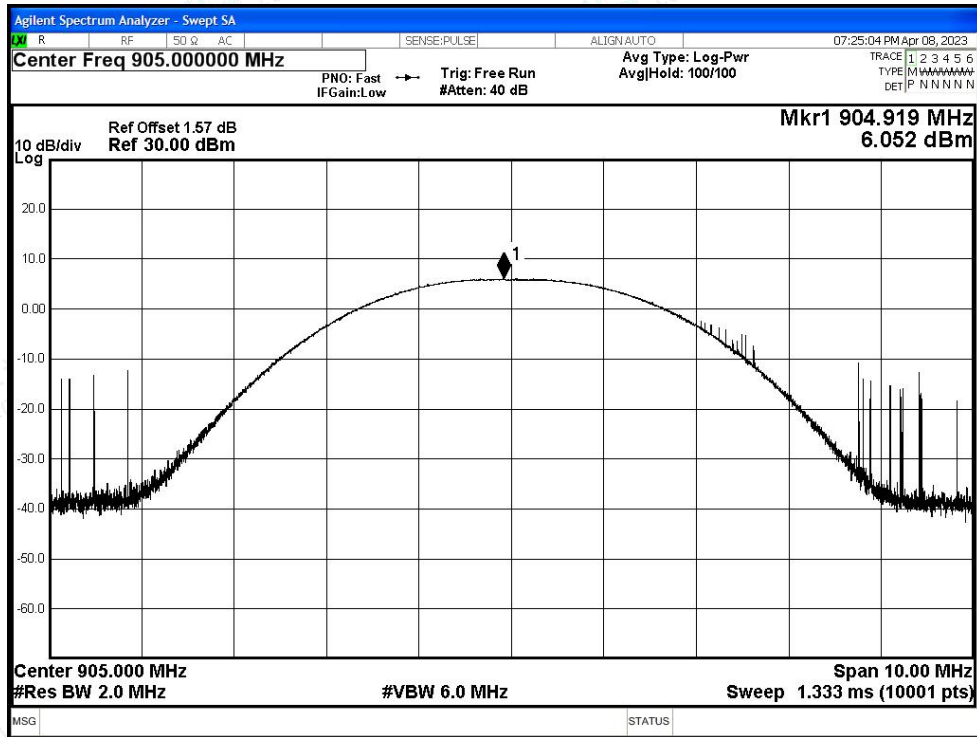


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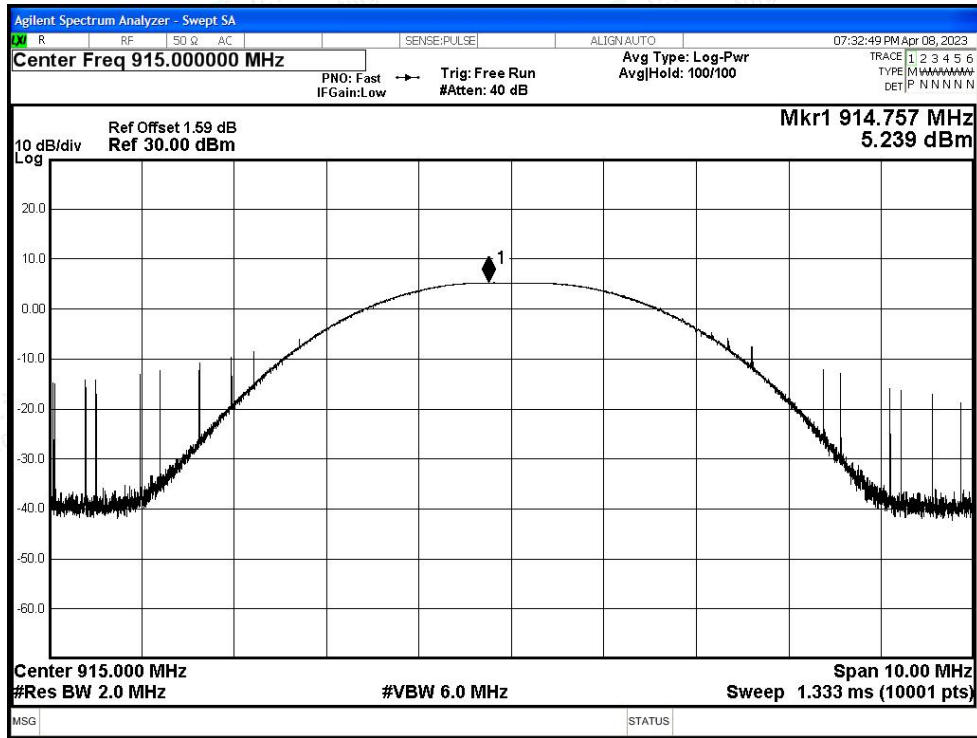


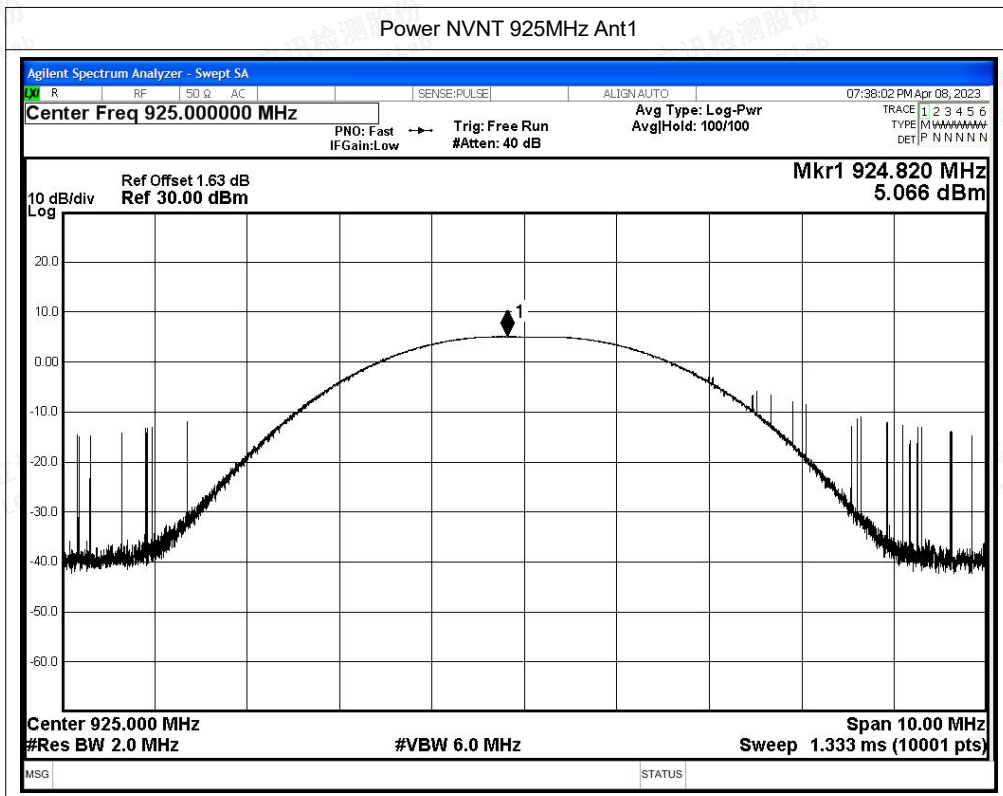
Test Graphs

Power NVNT 905MHz Ant1



Power NVNT 915MHz Ant1







A.3 Maximum Power Spectral Density Level

Condition	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	905	Ant1	-4.16	8	Pass
NVNT	915	Ant1	-4.97	8	Pass
NVNT	925	Ant1	-4.73	8	Pass

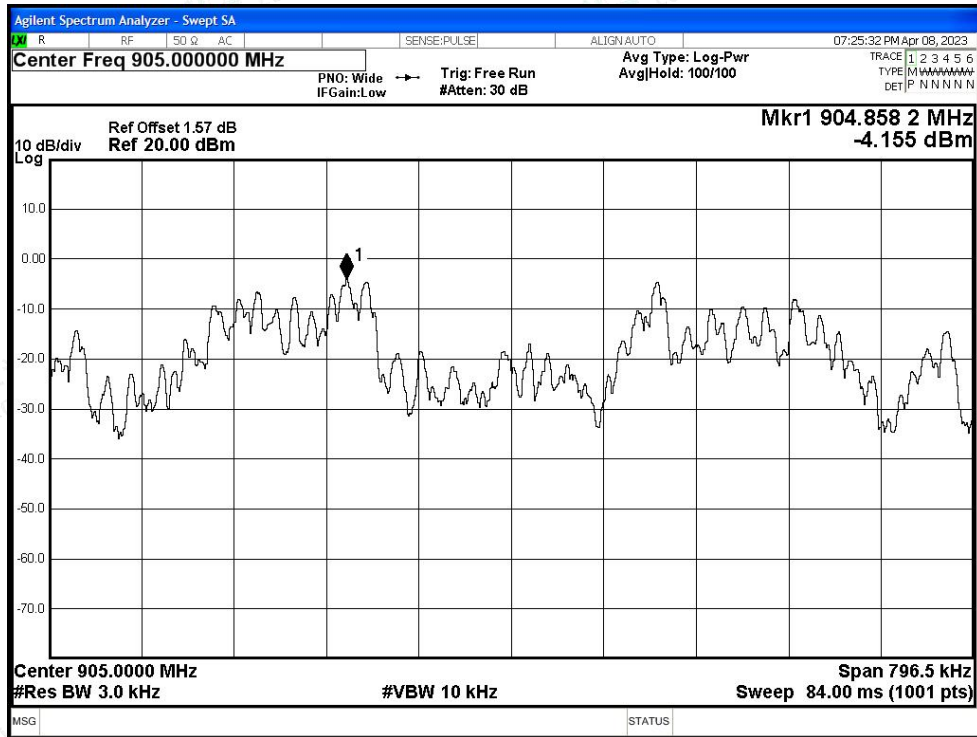


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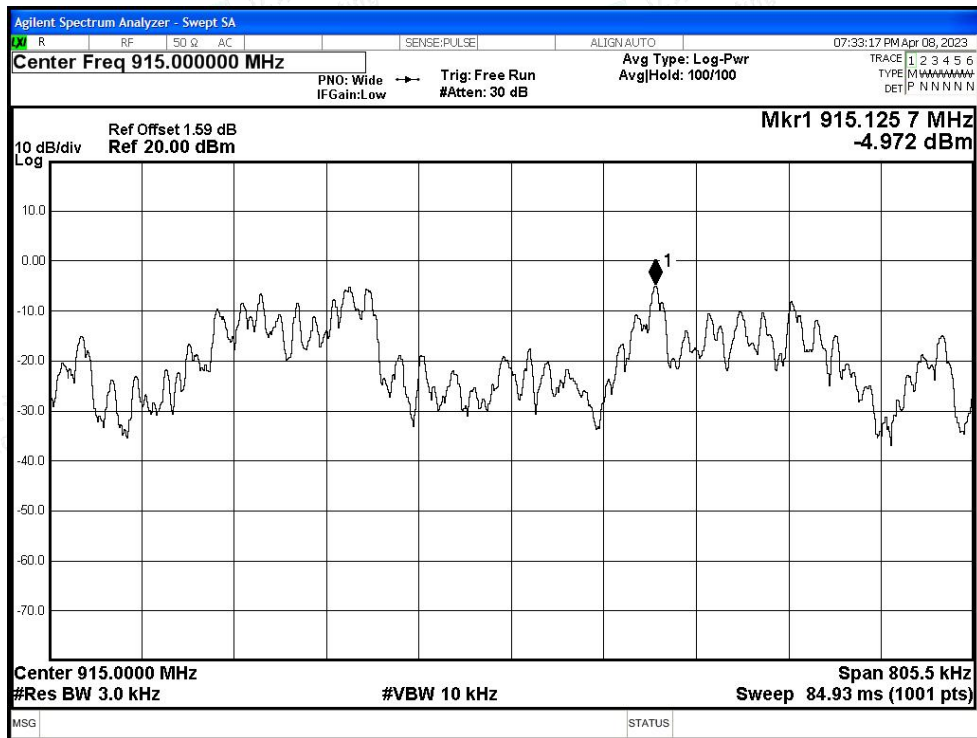


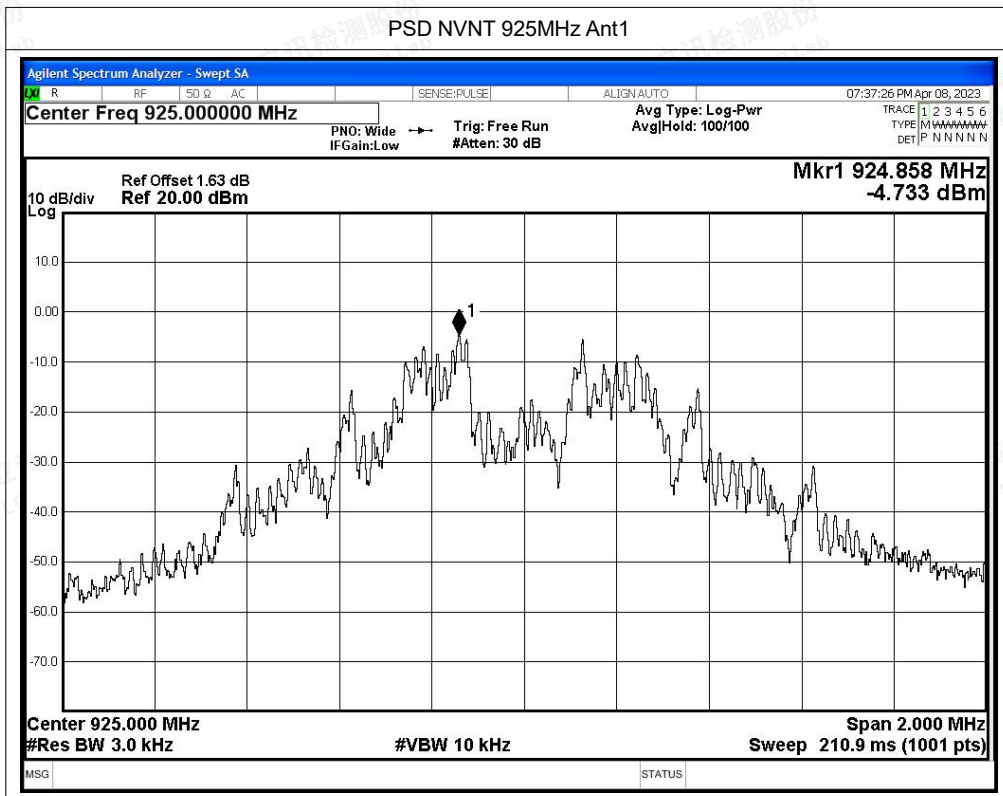
Test Graphs

PSD NVNT 905MHz Ant1



PSD NVNT 915MHz Ant1







A.4 Band Edge

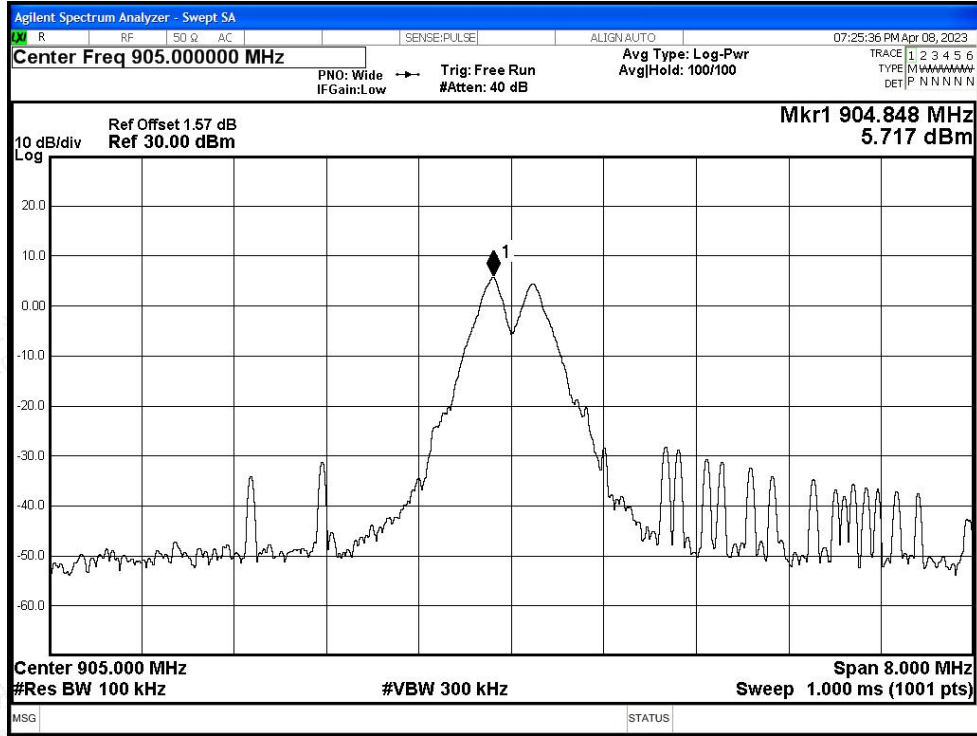
Condition	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	905	Ant1	-43.39	-20	Pass
NVNT	925	Ant1	-44.97	-20	Pass



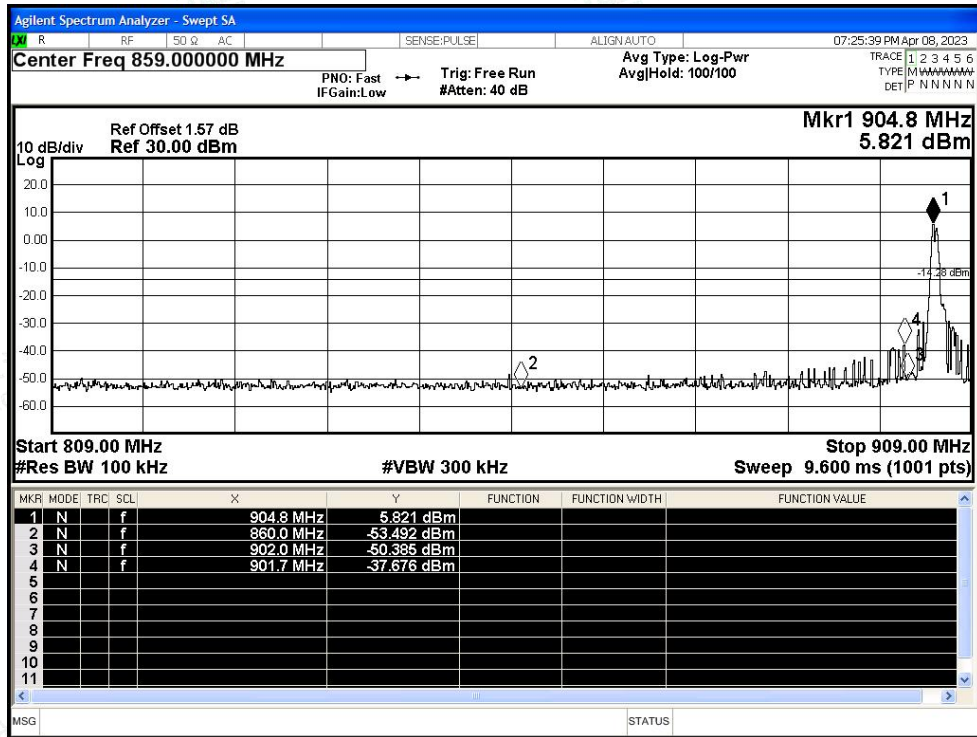


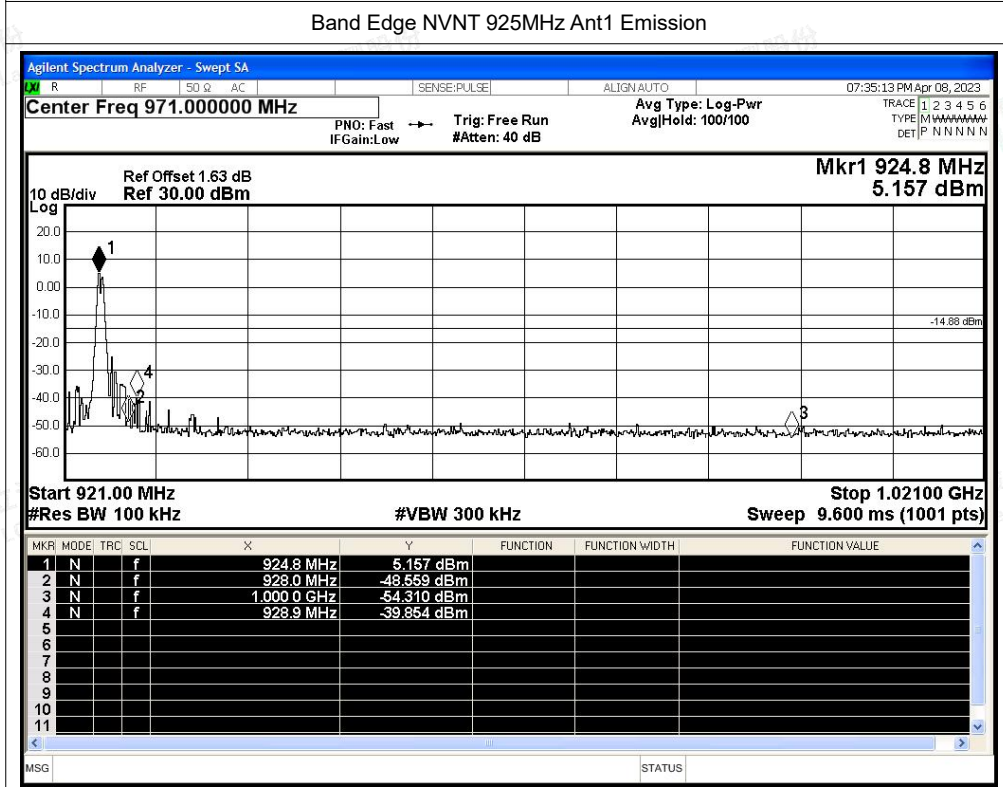
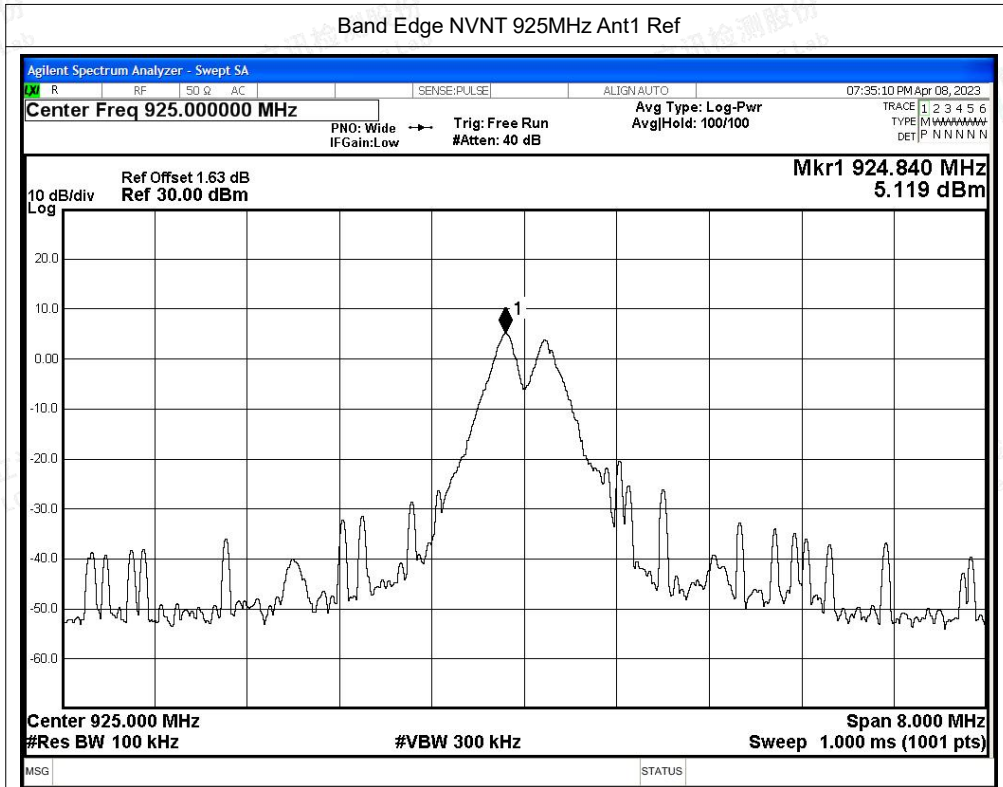
Test Graphs

Band Edge NVNT 905MHz Ant1 Ref



Band Edge NVNT 905MHz Ant1 Emission







A.5 Conducted RF Spurious Emission

Condition	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	905	Ant1	-49.83	-20	Pass
NVNT	915	Ant1	-49.90	-20	Pass
NVNT	925	Ant1	-50.97	-20	Pass

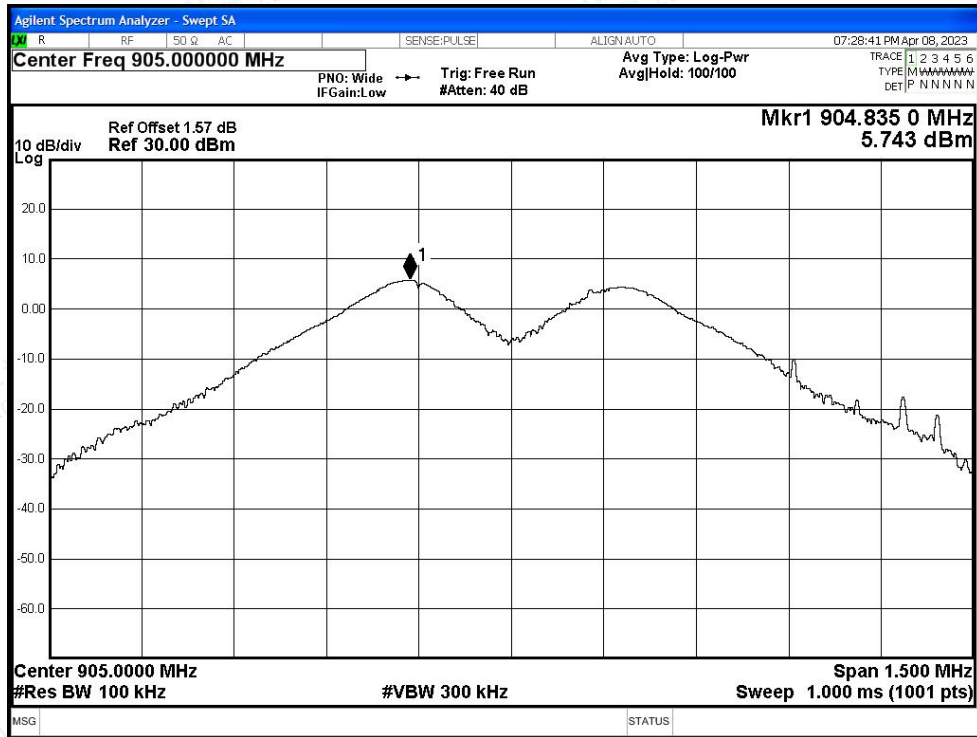


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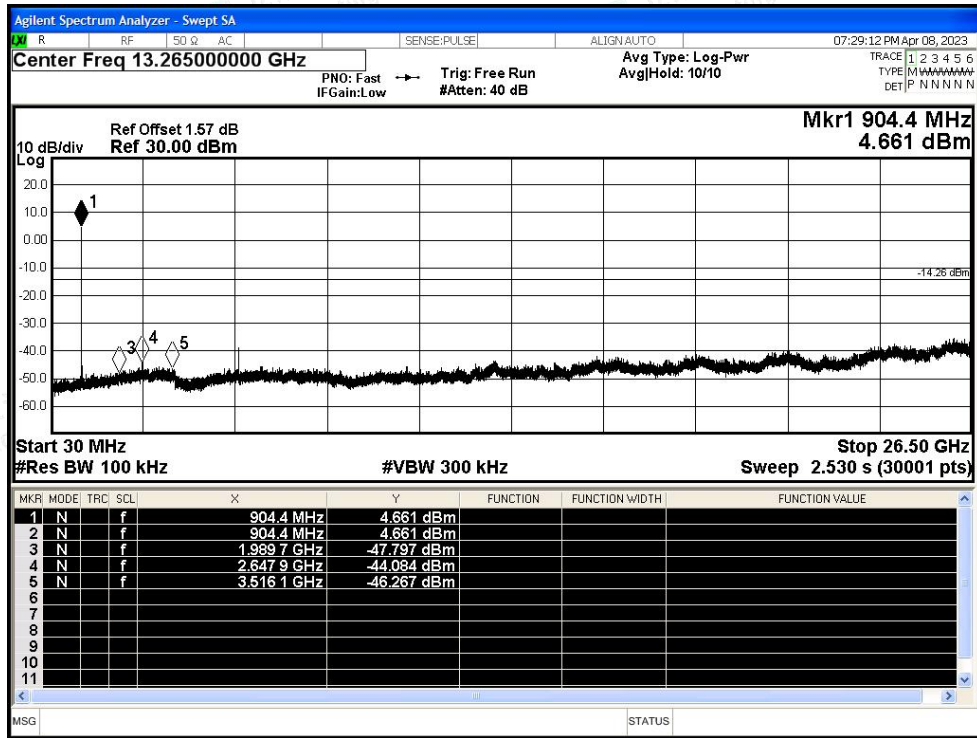


Test Graphs

Tx. Spurious NVNT 905MHz Ant1 Ref

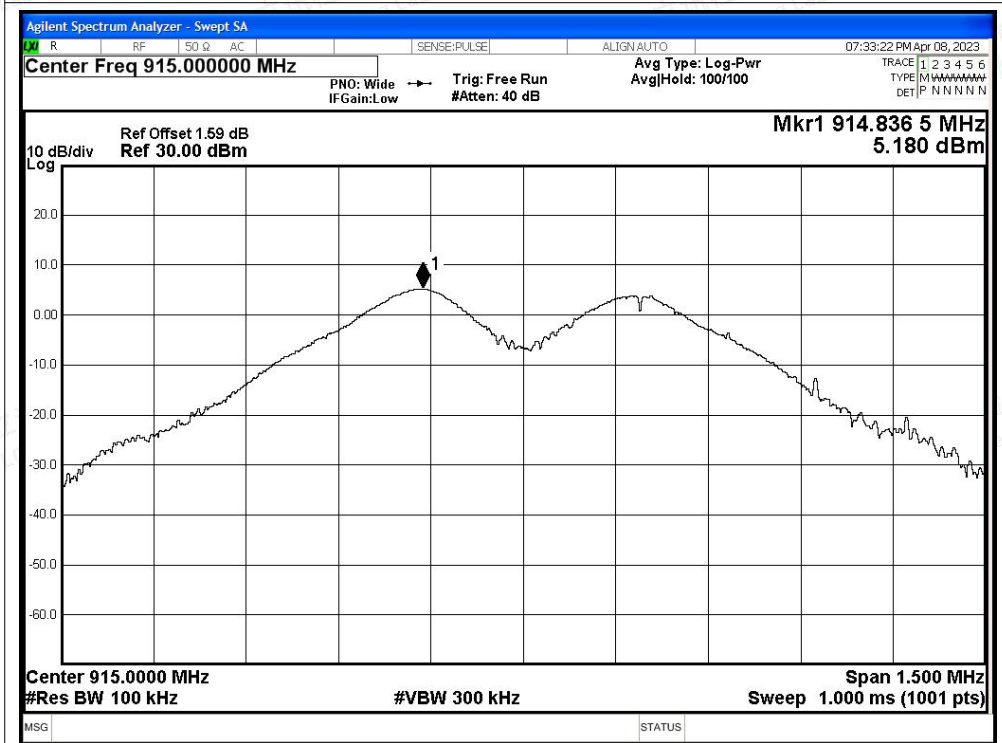


Tx. Spurious NVNT 905MHz Ant1 Emission

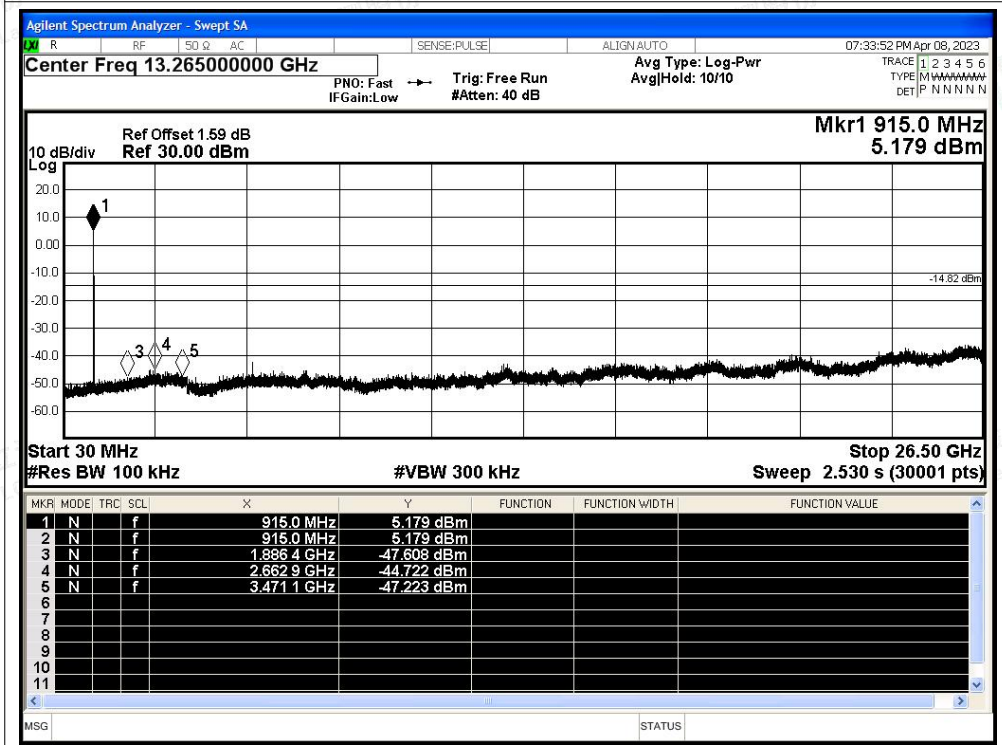




Tx. Spurious NVNT 915MHz Ant1 Ref

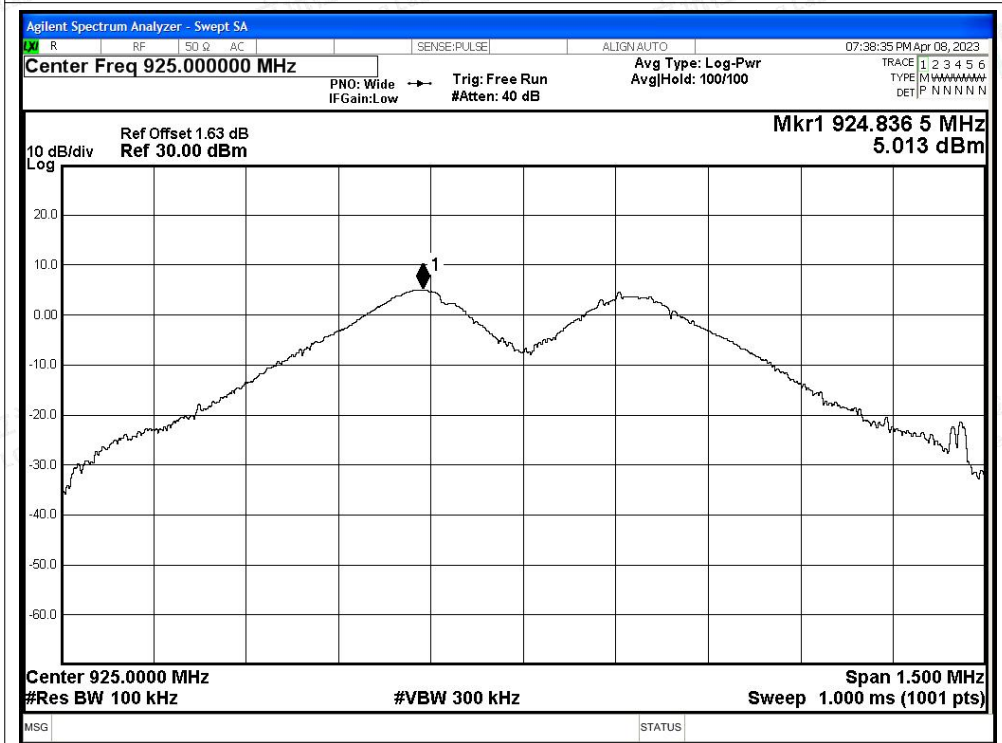


Tx. Spurious NVNT 915MHz Ant1 Emission

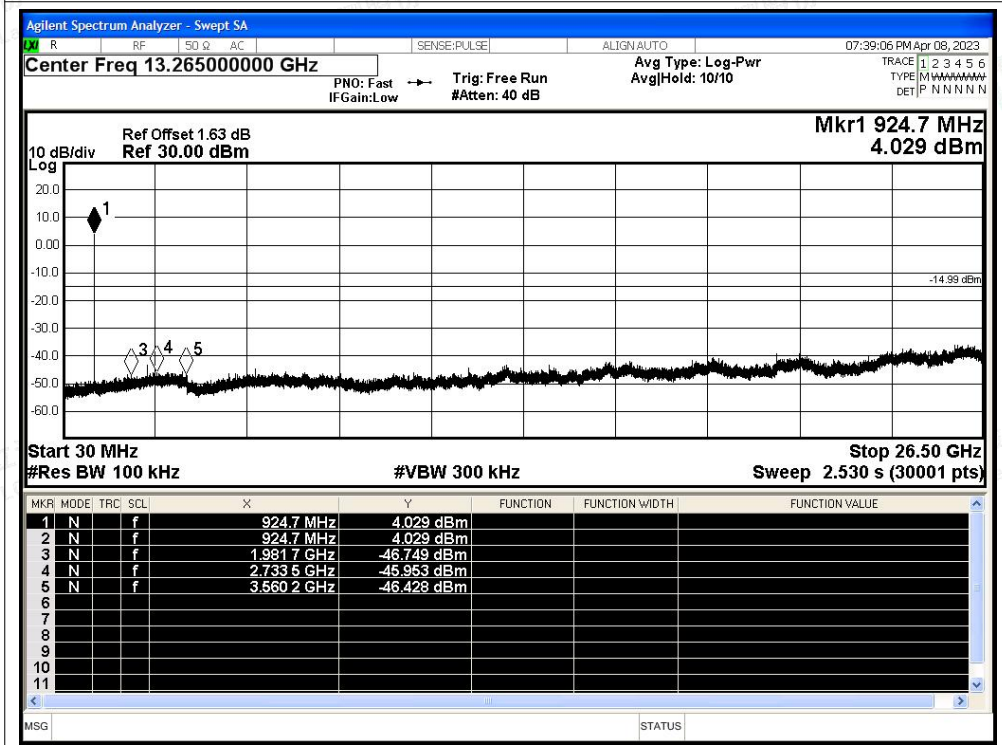




Tx. Spurious NVNT 925MHz Ant1 Ref



Tx. Spurious NVNT 925MHz Ant1 Emission





A.7 Duty Cycle

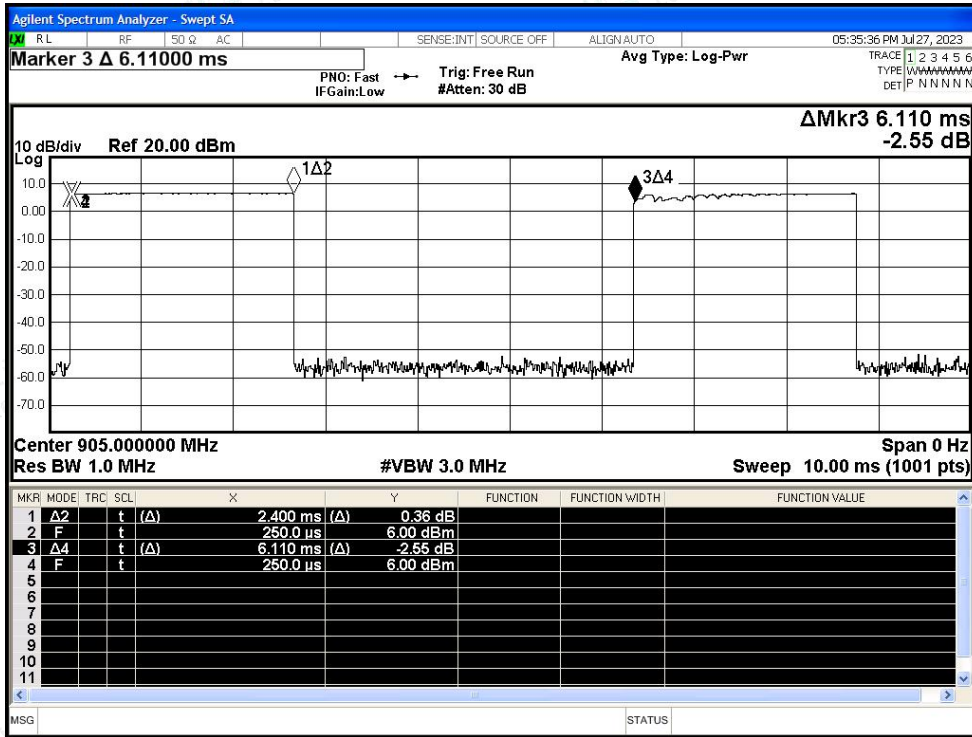
Condition	Frequency (MHz)	Antenna	Duty Cycle (%)	1/T (kHz)
NVNT	905	Ant1	39.3	0.42
NVNT	925	Ant1	39.3	0.42



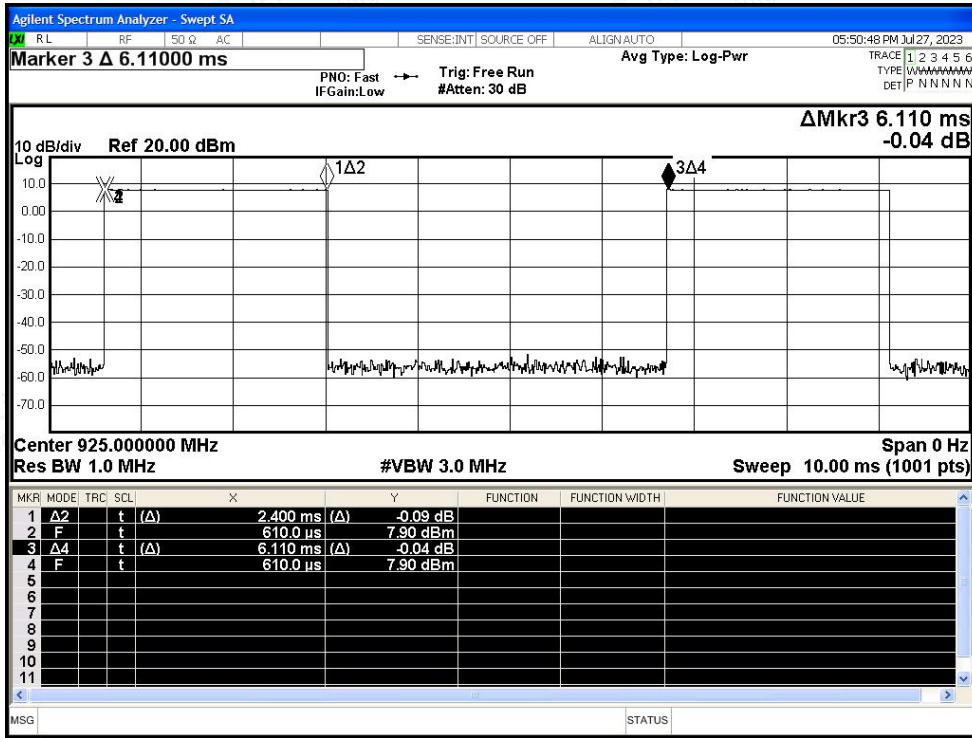


Test Graphs

Duty Cycle NVNT 905MHz Ant1



Duty Cycle NVNT 925MHz Ant1





A.8 Restrict Band

Condition	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	905	Ant1	902	-70.777	2	26.45	Peak	46	Pass
NVNT	905	Ant1	608	-71.136	2	26.09	Peak	46	Pass
NVNT	905	Ant1	614	-71.707	2	25.52	Peak	46	Pass
NVNT	905	Ant1	896.05	-65.923	2	31.31	Peak	46	Pass
NVNT	925	Ant1	928	-70.103	2	27.13	Peak	46	Pass
NVNT	925	Ant1	960	-70.776	2	26.45	Peak	46	Pass
NVNT	925	Ant1	1000	-70.720	2	26.51	Peak	54	Pass
NVNT	925	Ant1	928.770	-68.682	2	28.55	Peak	46	Pass

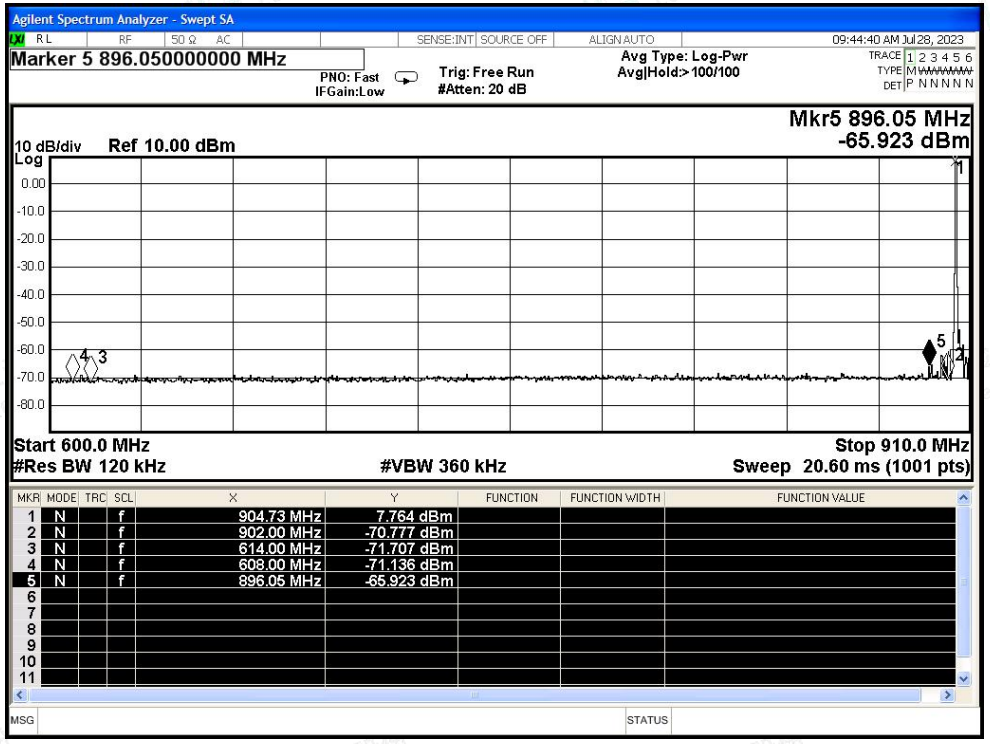


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Test Graphs

Restrict Band NVNT 905MHz Ant1 Peak



Restrict Band NVNT 925MHz Ant1 Peak

