



Appendix B

RF Test Data for LORA (Conducted Measurement)

Product Name: Kaiterra Sensedge Go Air Quality Monitor

Test Model: SE-300

Environmental Conditions

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



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B.1 -6dB Bandwidth

Condition	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	903.0	Ant1	621.6	≥ 0.5	Pass
NVNT	907.8	Ant1	622.7	≥ 0.5	Pass
NVNT	914.2	Ant1	618.4	≥ 0.5	Pass
NVNT	903.0	Ant2	613.9	≥ 0.5	Pass
NVNT	907.8	Ant2	622.8	≥ 0.5	Pass
NVNT	914.2	Ant2	621.3	≥ 0.5	Pass



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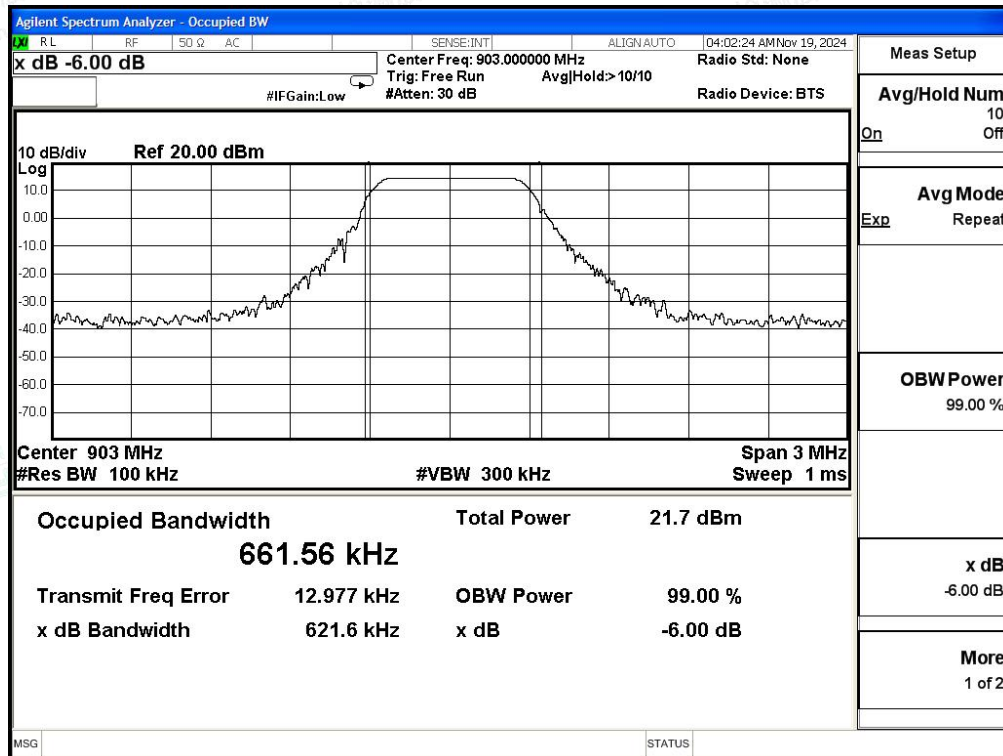
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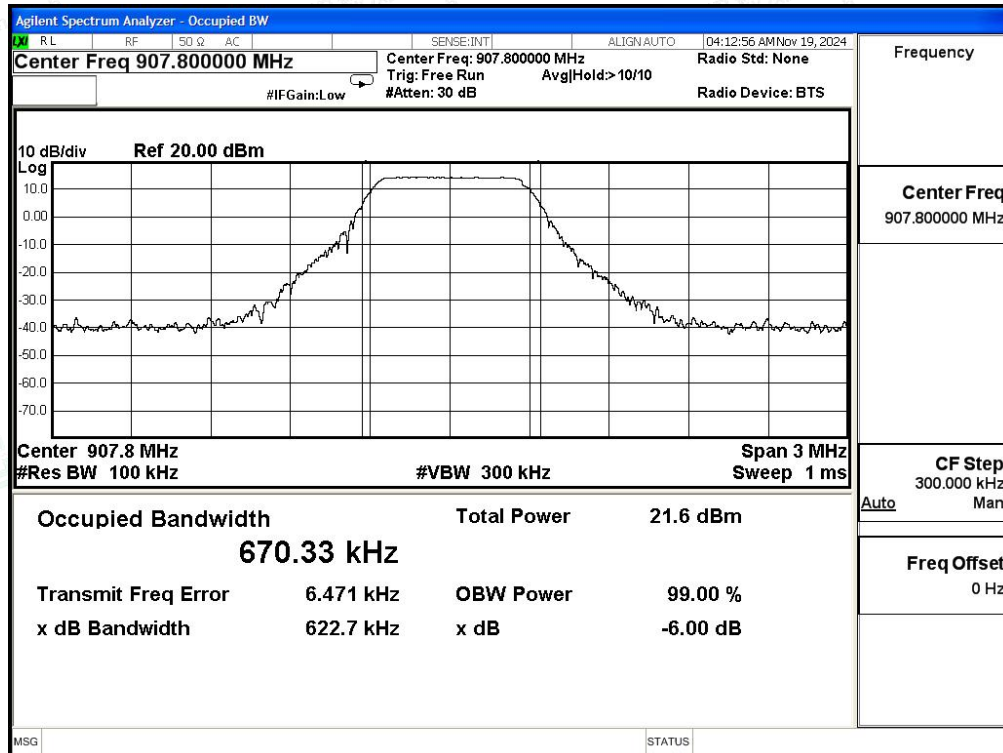


Test Graphs

-6dB Bandwidth NVNT 903MHz Ant1



-6dB Bandwidth NVNT 907.8MHz Ant1



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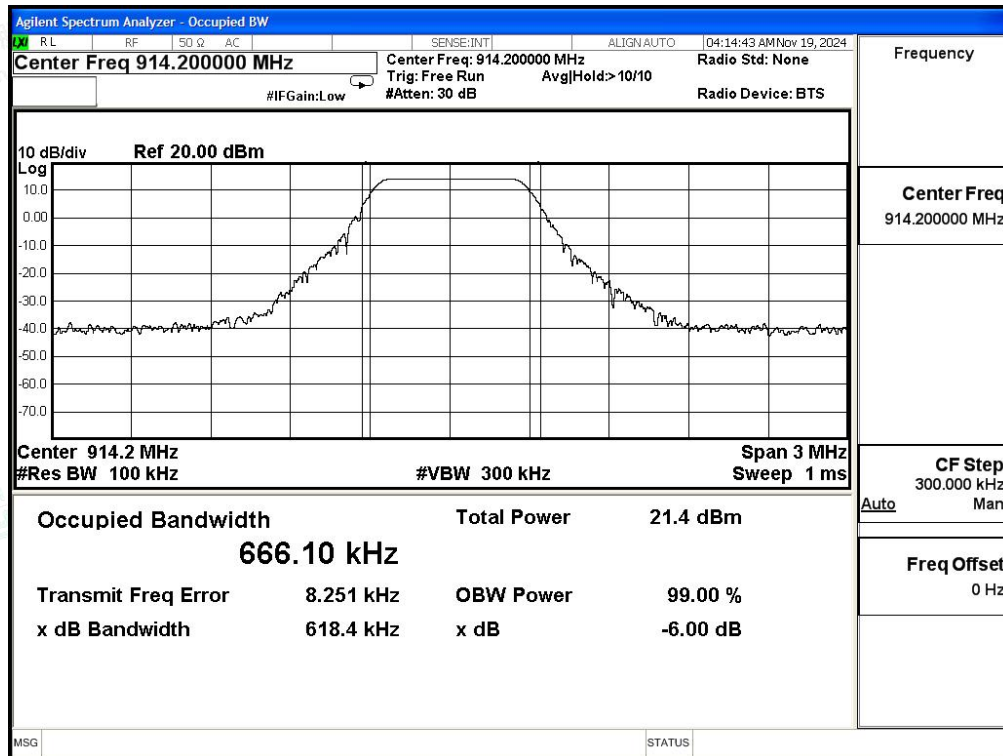
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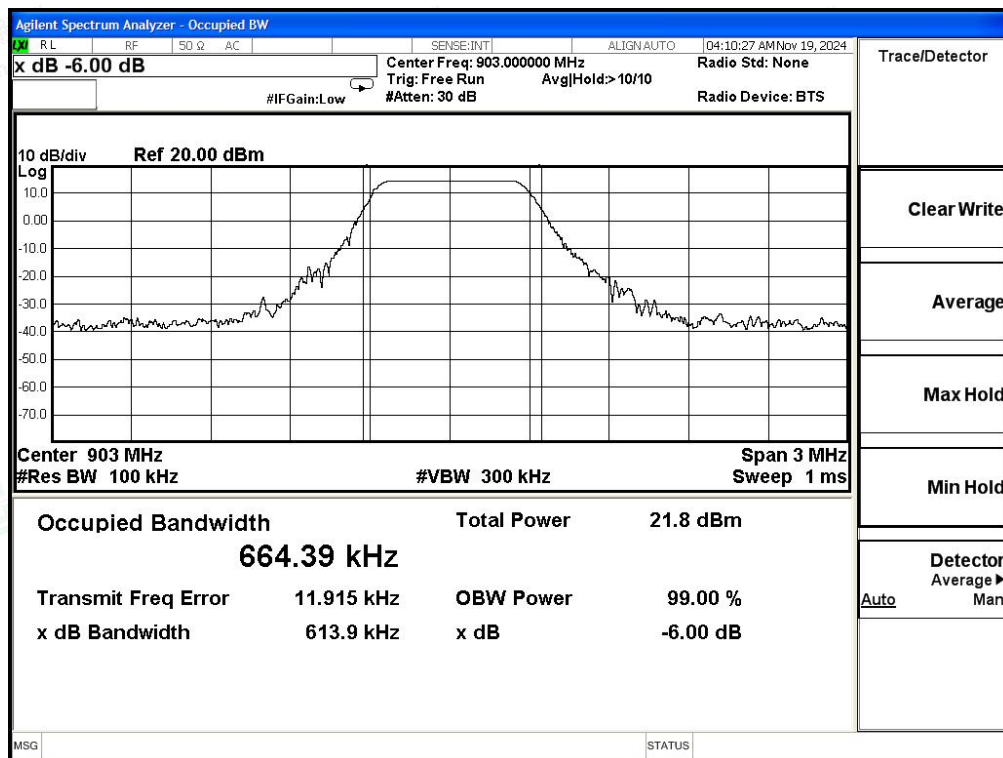
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-6dB Bandwidth NVNT 914.2MHz Ant1



-6dB Bandwidth NVNT 903MHz Ant2



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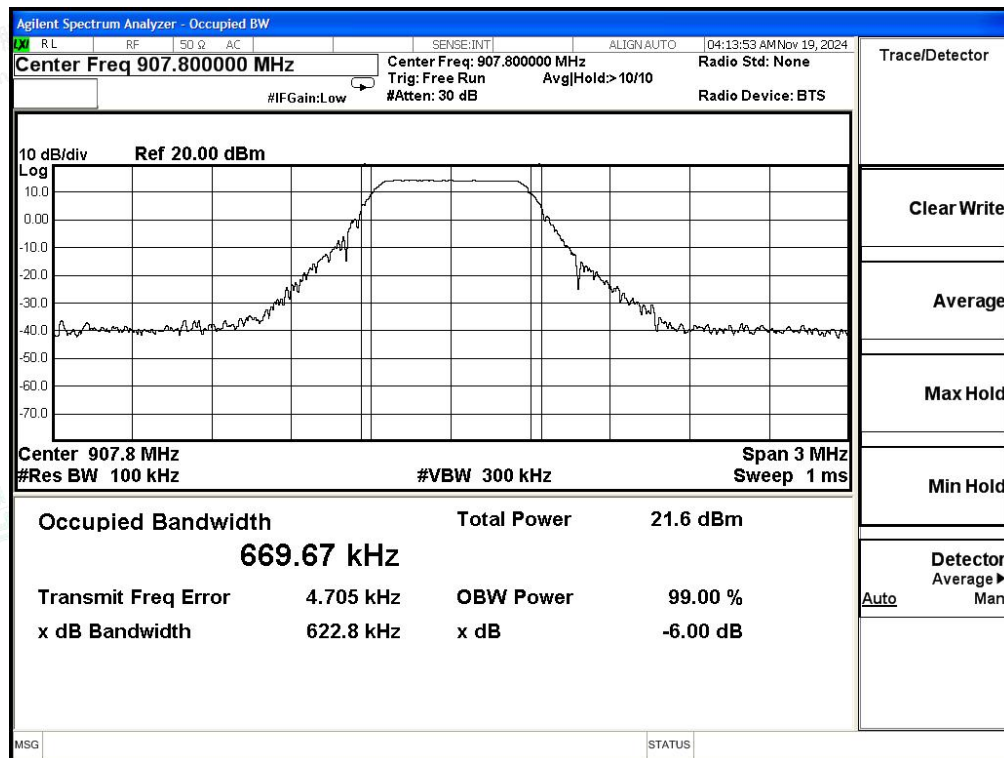
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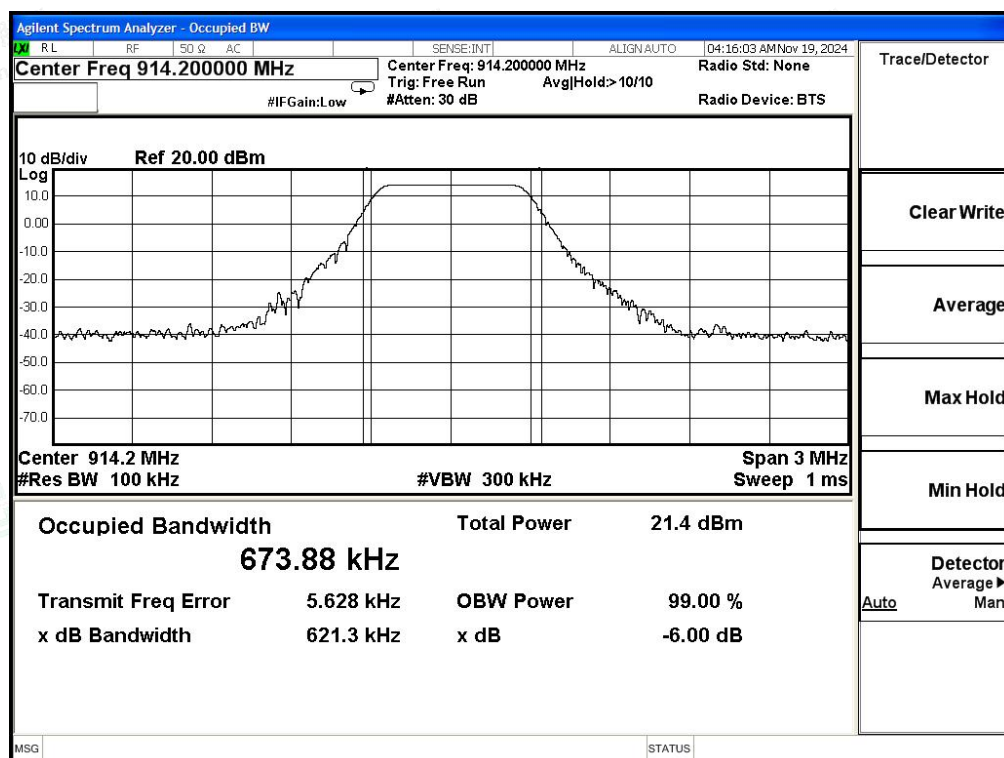
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-6dB Bandwidth NVNT 907.8MHz Ant2



-6dB Bandwidth NVNT 914.2MHz Ant2



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B.2 Maximum Peak Conducted Output Power

Condition	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	903.0	Ant1	14.36	30	Pass
NVNT	907.8	Ant1	14.20	30	Pass
NVNT	914.2	Ant1	13.96	30	Pass
NVNT	903.0	Ant2	14.36	30	Pass
NVNT	907.8	Ant2	14.19	30	Pass
NVNT	914.2	Ant2	13.97	30	Pass



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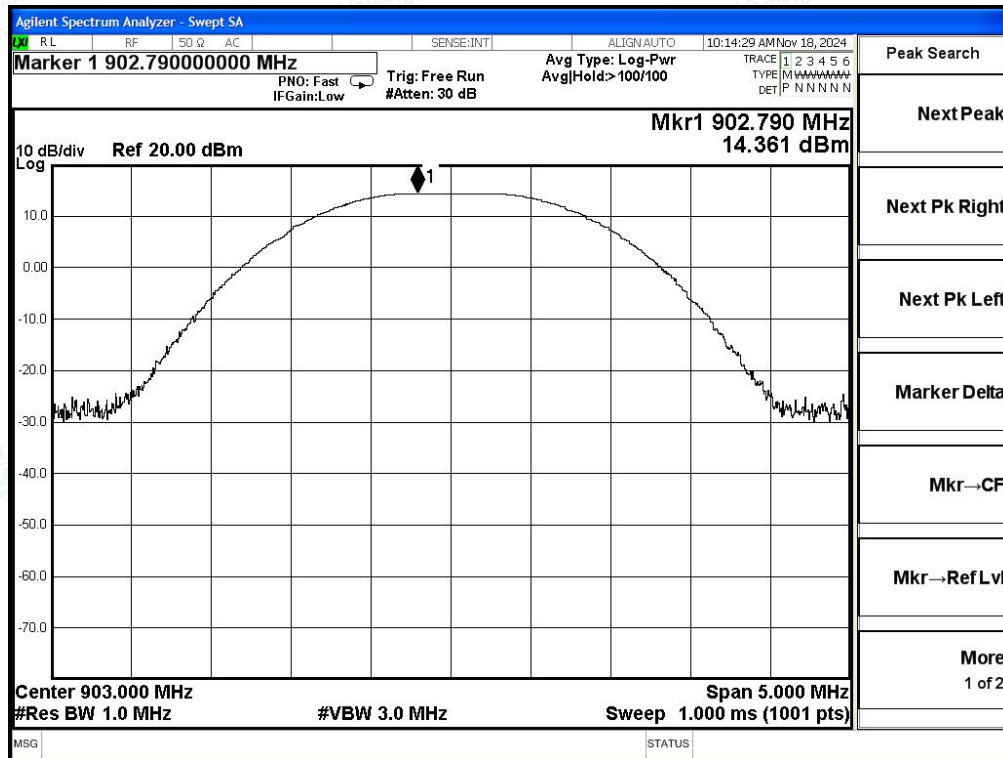
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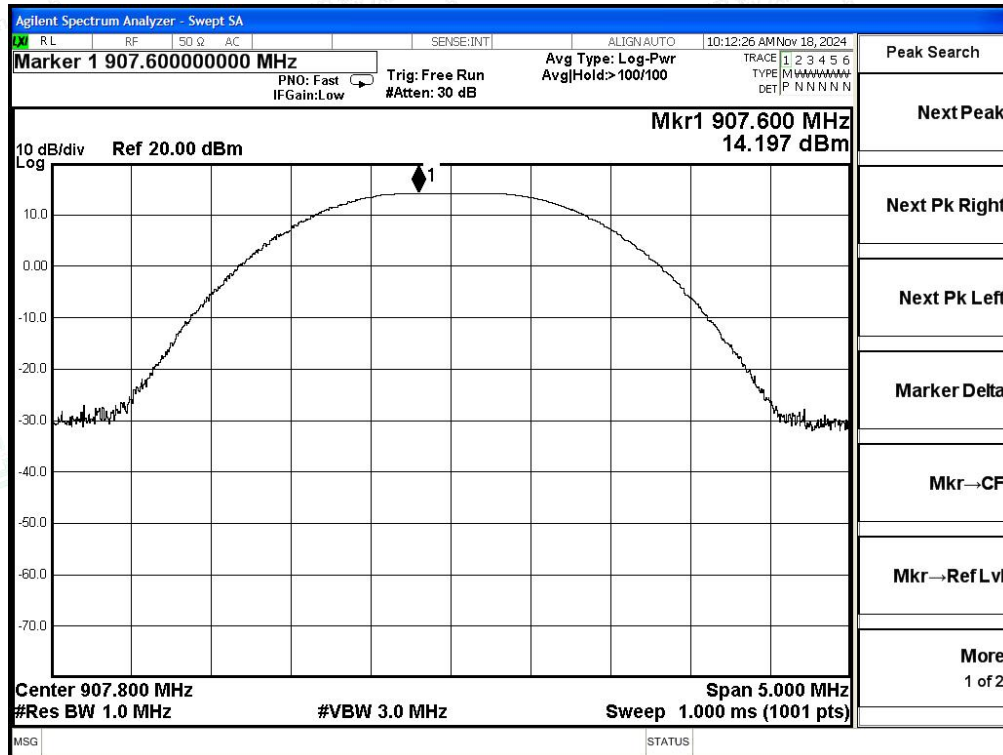


Test Graphs

Power NVNT 903.0MHz Ant1



Power NVNT 907.8MHz Ant1



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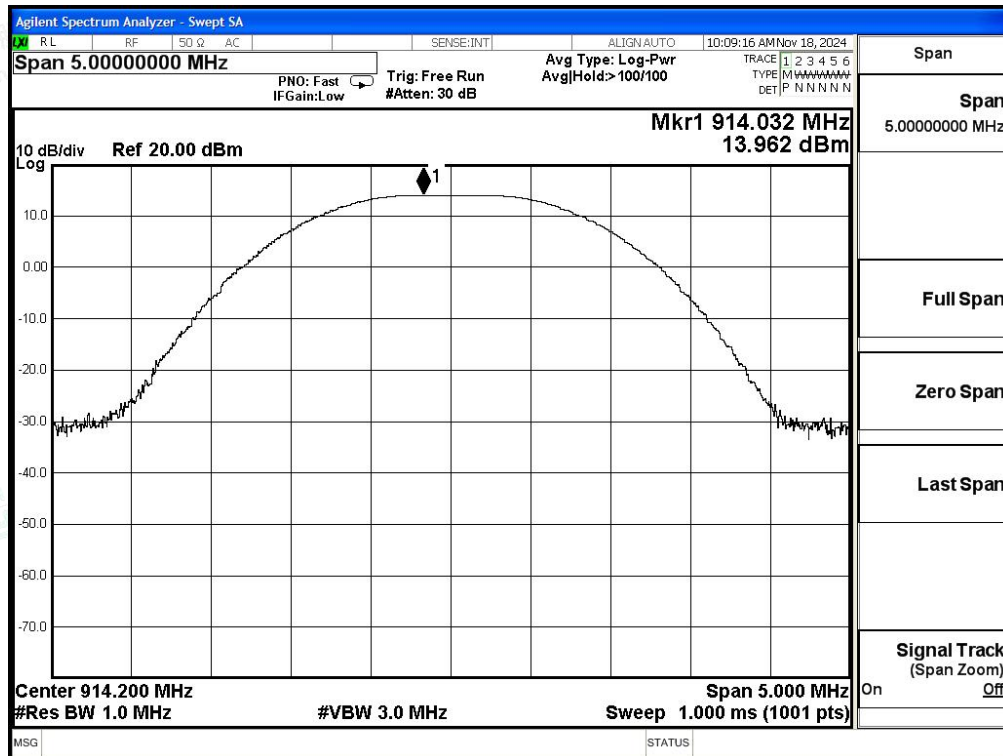
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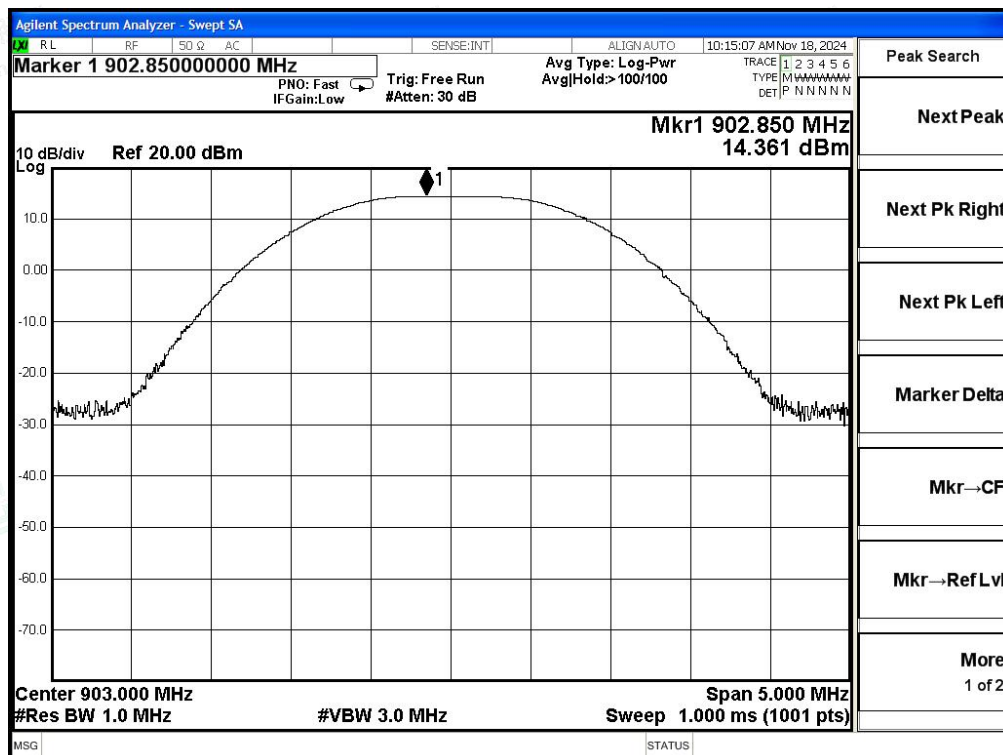
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Power NVNT 914.2MHz Ant1



Power NVNT 903.0MHz Ant2

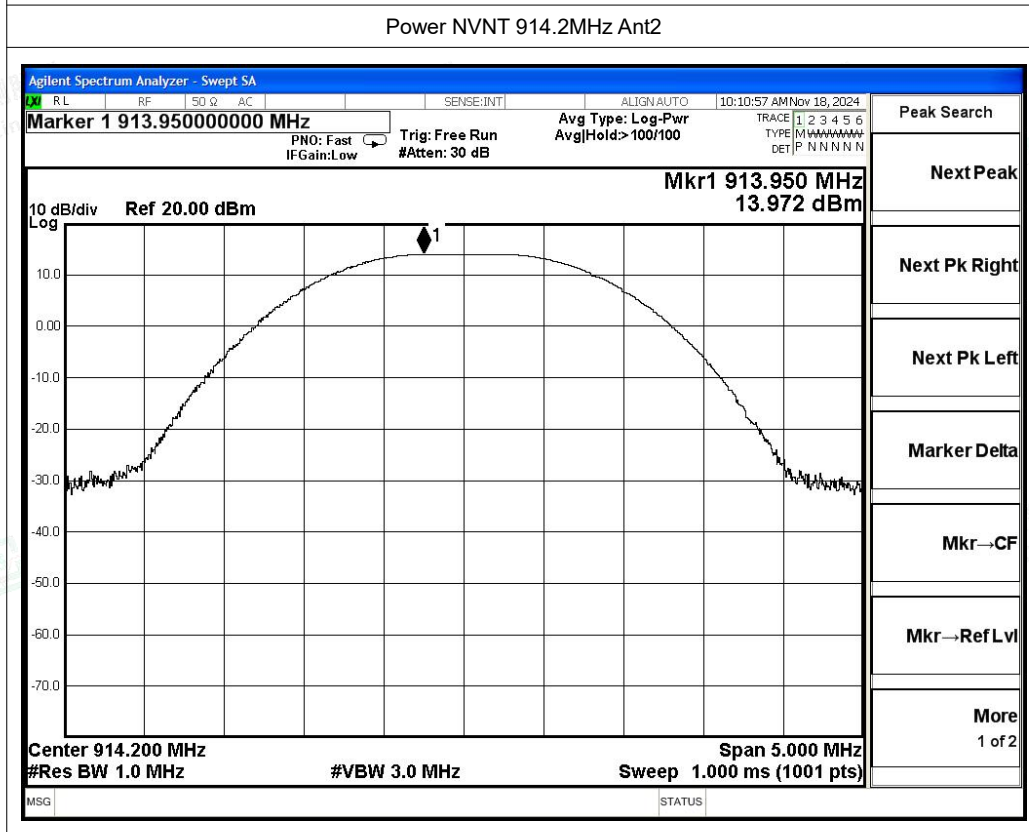
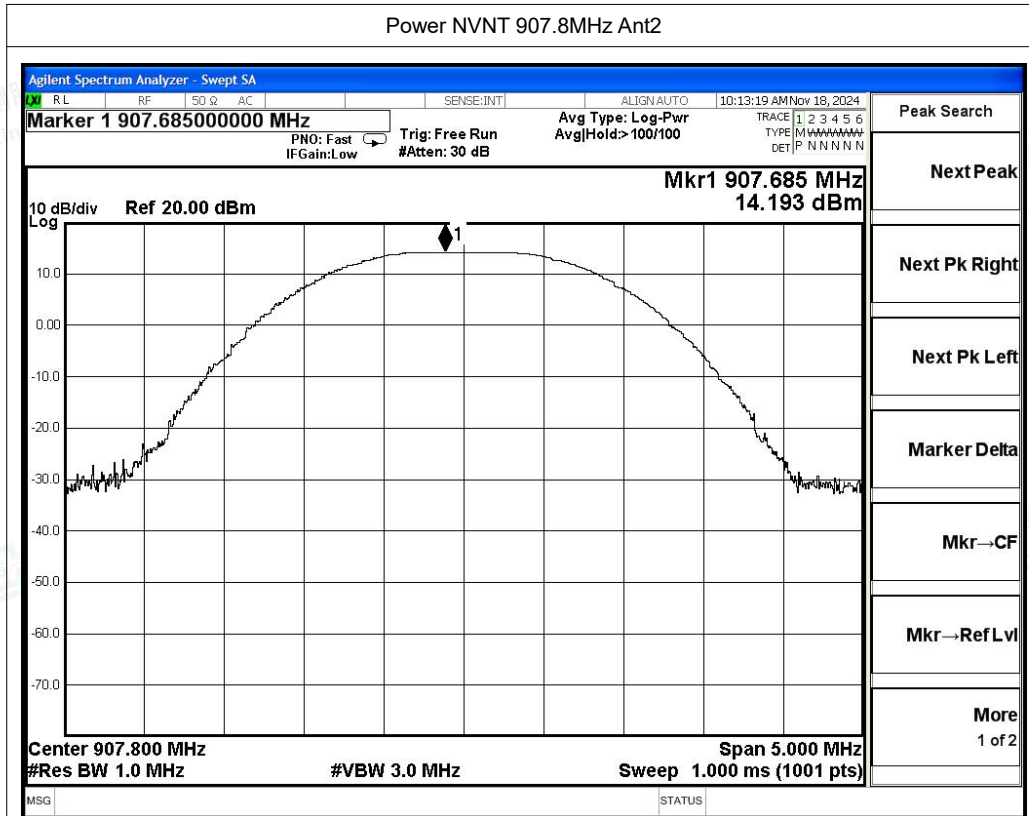


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B.3 Maximum Power Spectral Density Level

Condition	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	903.0	Ant1	1.61	8	Pass
NVNT	907.8	Ant1	1.27	8	Pass
NVNT	914.2	Ant1	1.02	8	Pass
NVNT	903.0	Ant2	2.19	8	Pass
NVNT	907.8	Ant2	1.71	8	Pass
NVNT	914.2	Ant2	0.96	8	Pass



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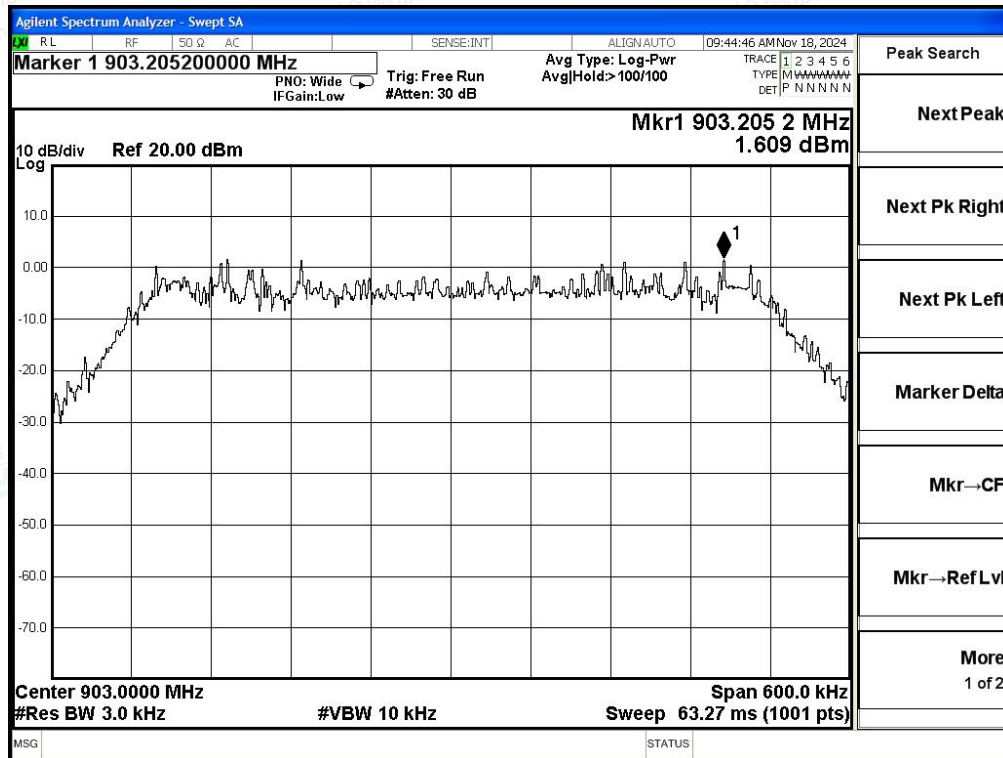
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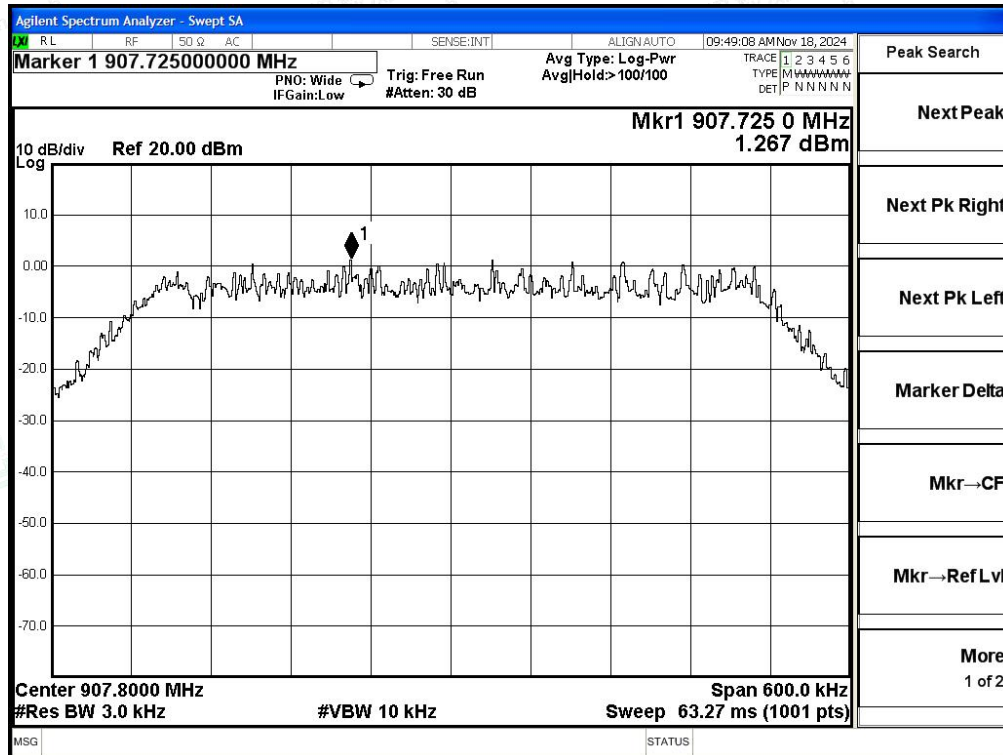


Test Graphs

PSD NVNT 903.0MHz Ant1



PSD NVNT 907.8MHz Ant1



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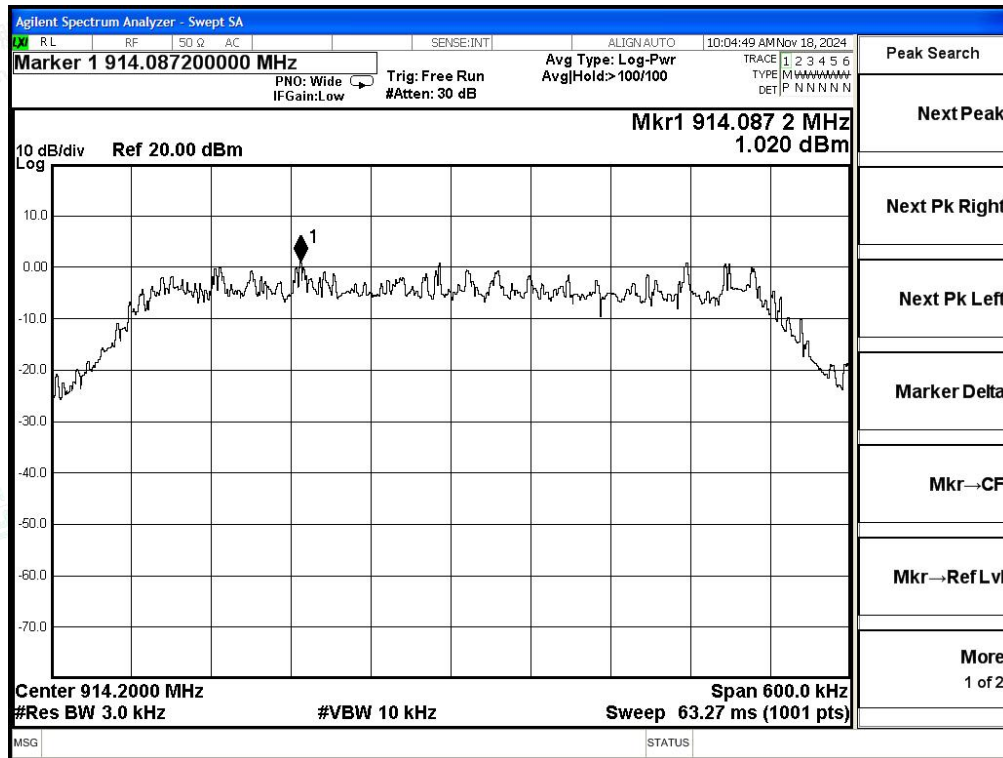
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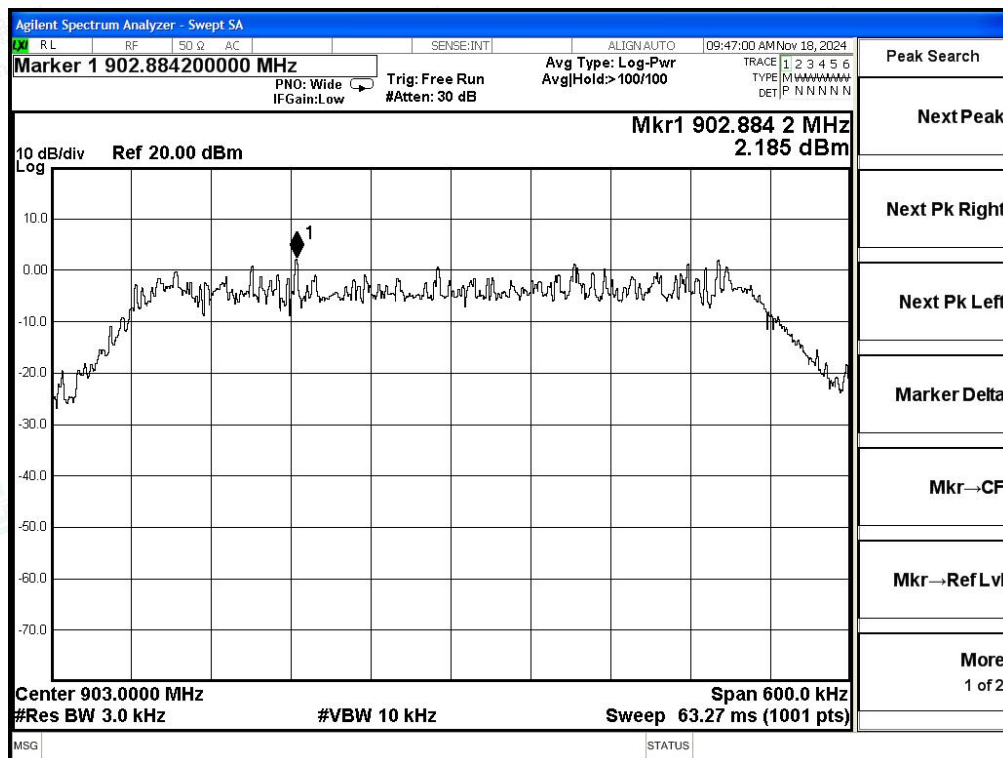
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PSD NVNT 914.2MHz Ant1



PSD NVNT 903.0MHz Ant2



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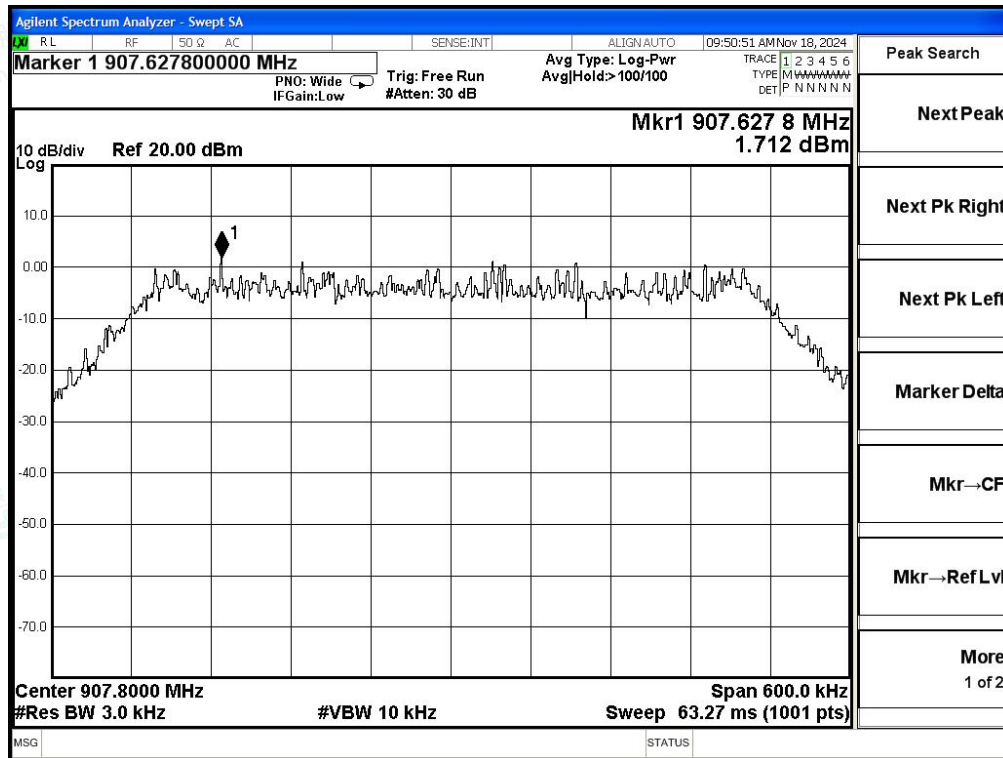
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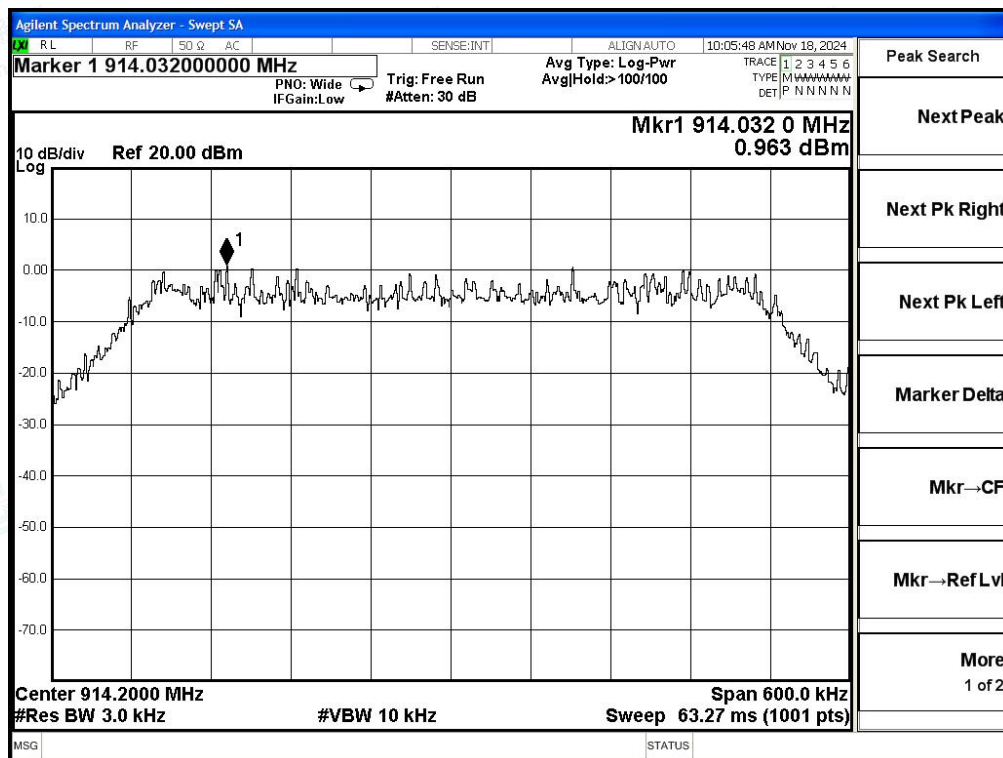
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PSD NVNT 907.8MHz Ant2



PSD NVNT 914.2MHz Ant2



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B.4 Band Edge

Condition	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	903.0	Ant1	-51.95	-20	Pass
NVNT	914.2	Ant1	-74.45	-20	Pass
NVNT	903.0	Ant2	-52.85	-20	Pass
NVNT	914.2	Ant2	-77.03	-20	Pass



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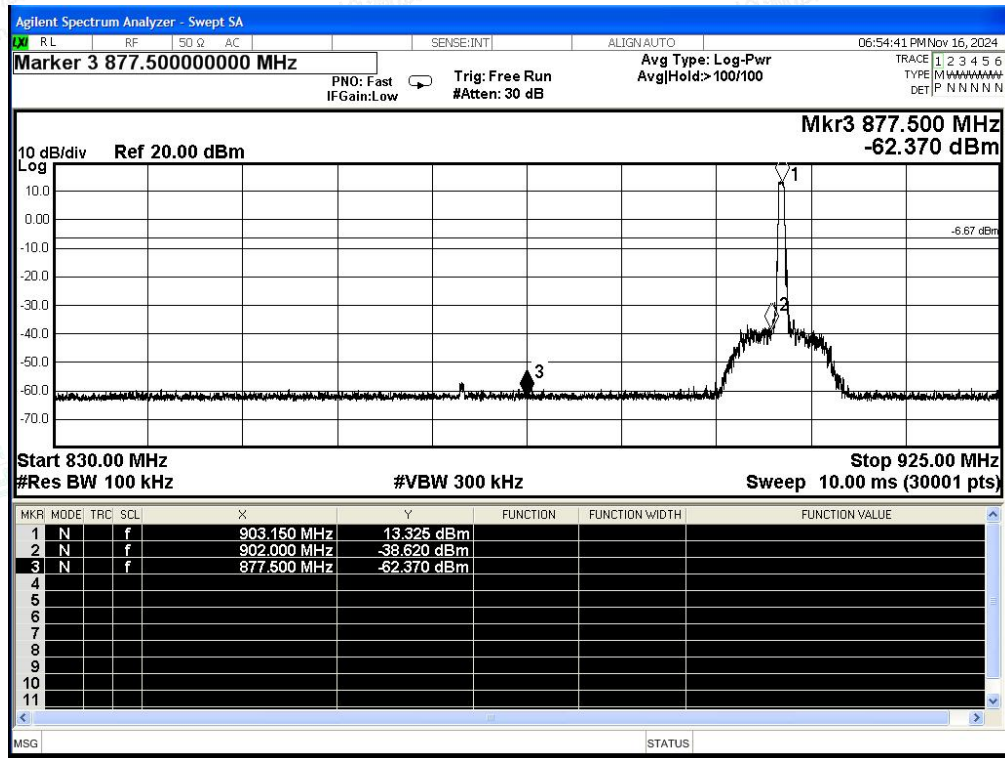
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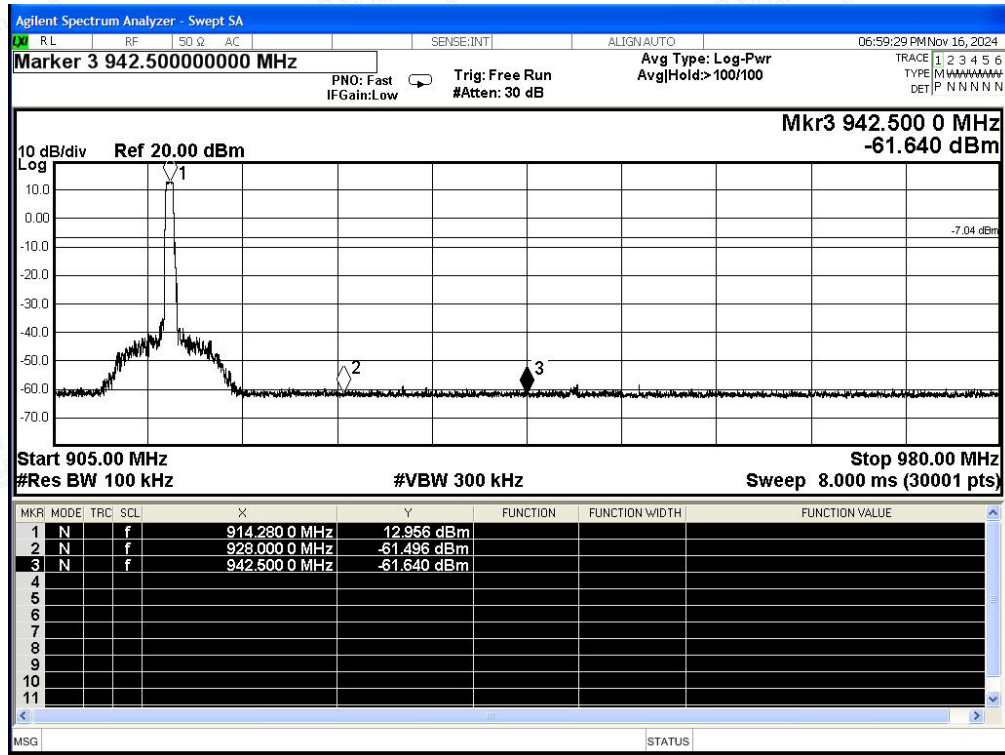


Test Graphs

Band Edge NVNT 903.0MHz Ant1



Band Edge NVNT 914.2MHz Ant1



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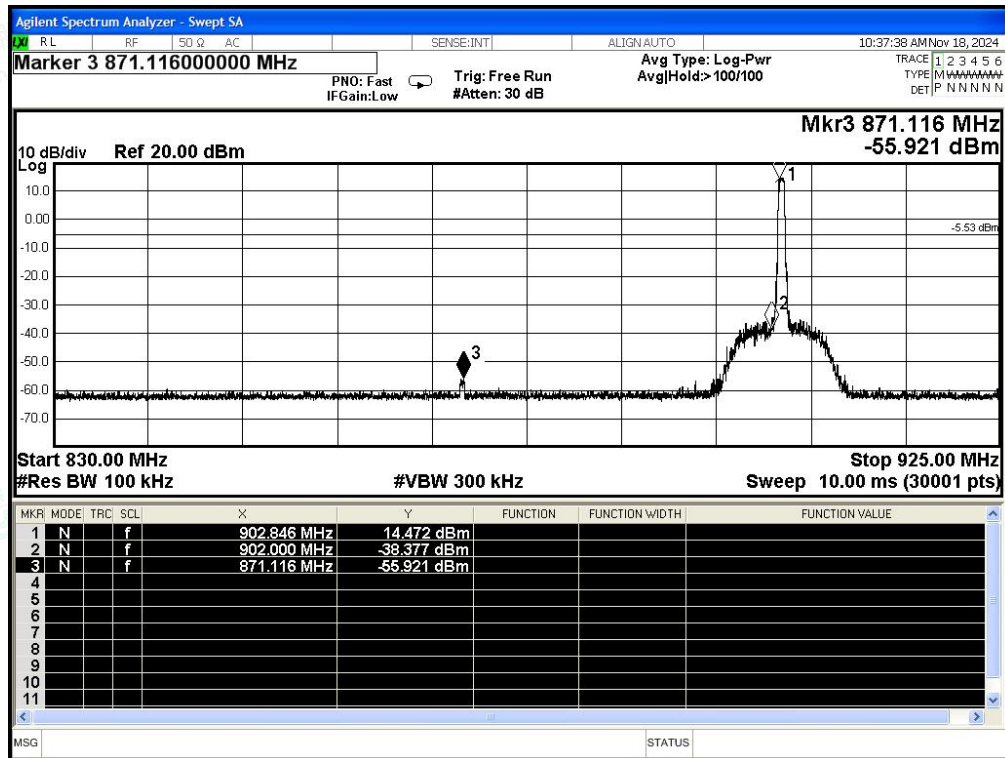
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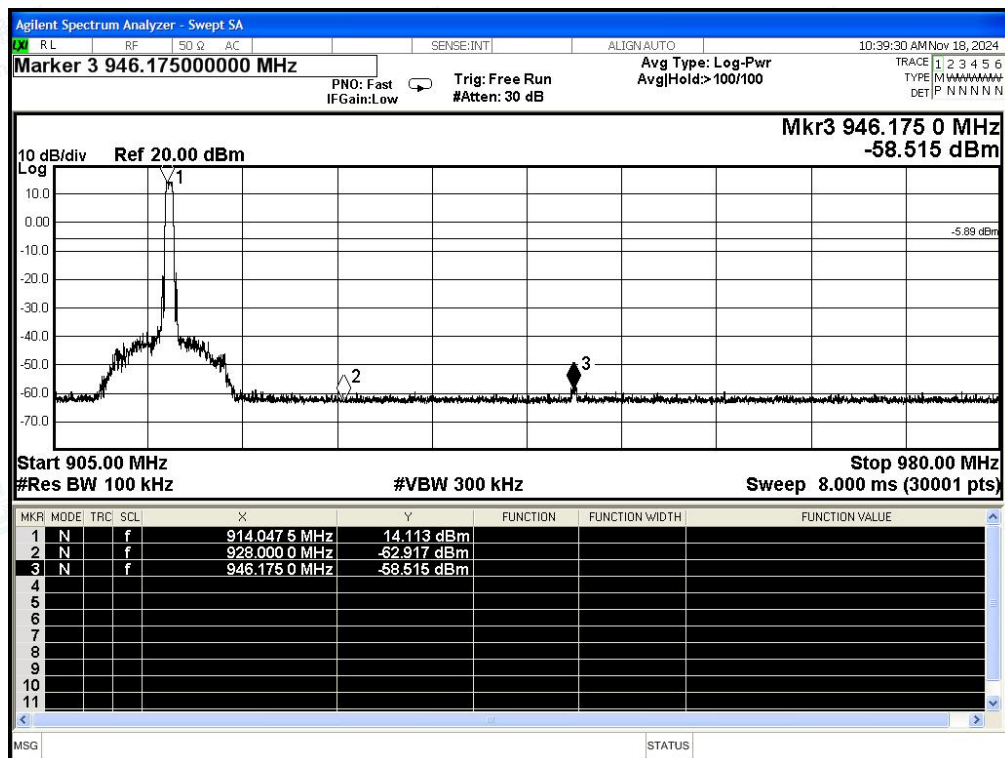
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Band Edge NVNT 903.0MHz Ant2



Band Edge NVNT 914.2MHz Ant2



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B.5 Conducted RF Spurious Emission

Condition	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	903.0	Ant1	-58.07	-20	Pass
NVNT	907.8	Ant1	-58.17	-20	Pass
NVNT	914.2	Ant1	-63.65	-20	Pass
NVNT	903.0	Ant2	-65.04	-20	Pass
NVNT	907.8	Ant2	-69.30	-20	Pass
NVNT	914.2	Ant2	-58.42	-20	Pass



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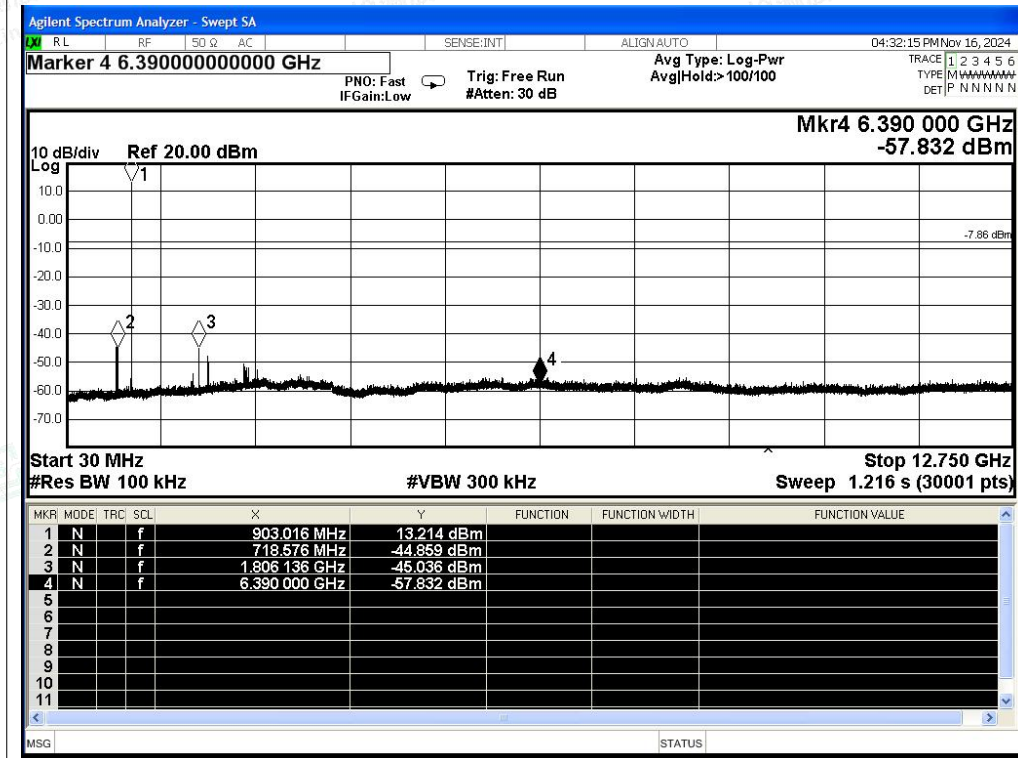
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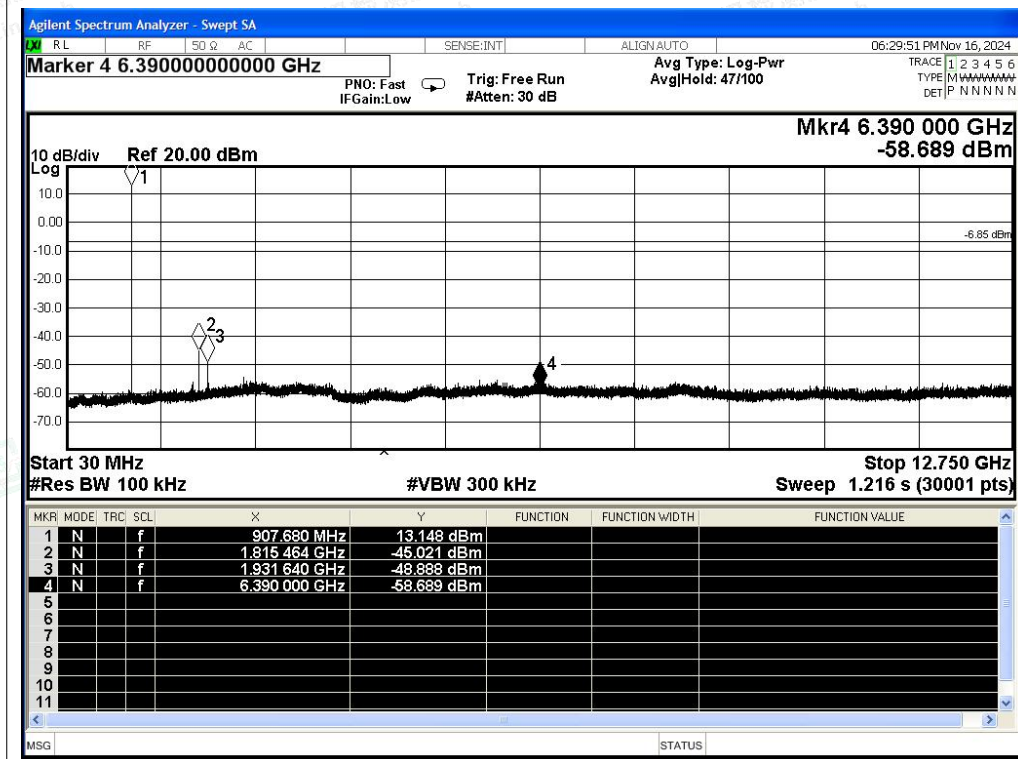


Test Graphs

Tx. Spurious NVNT 903.0MHz Ant1



Tx. Spurious NVNT 907.8MHz Ant1



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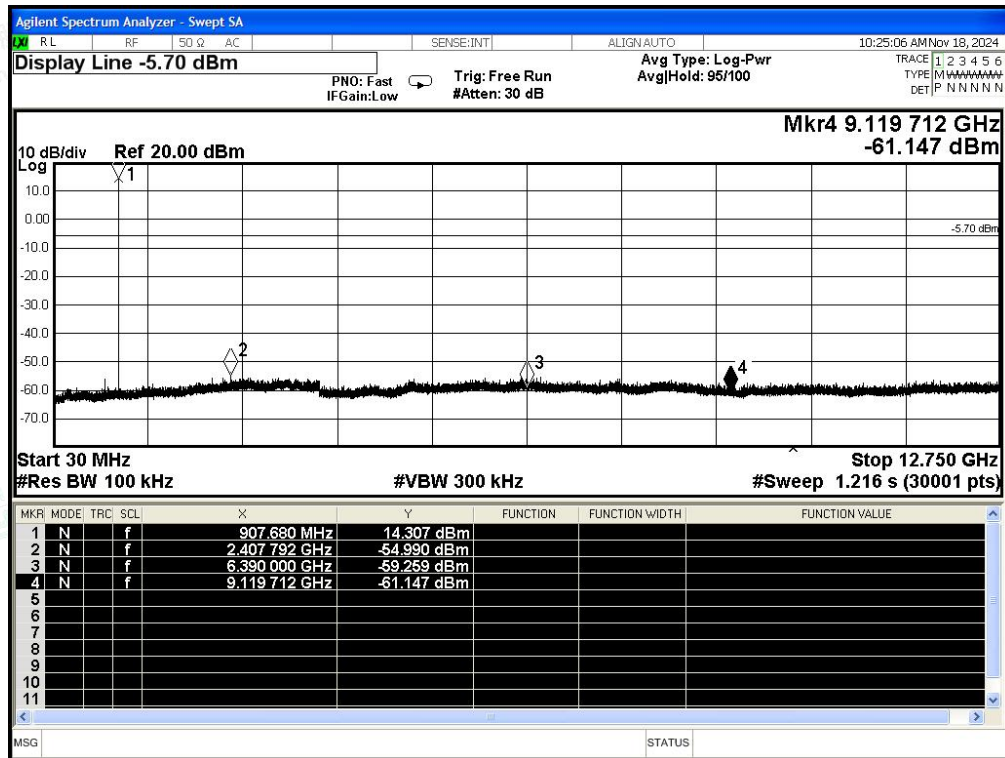
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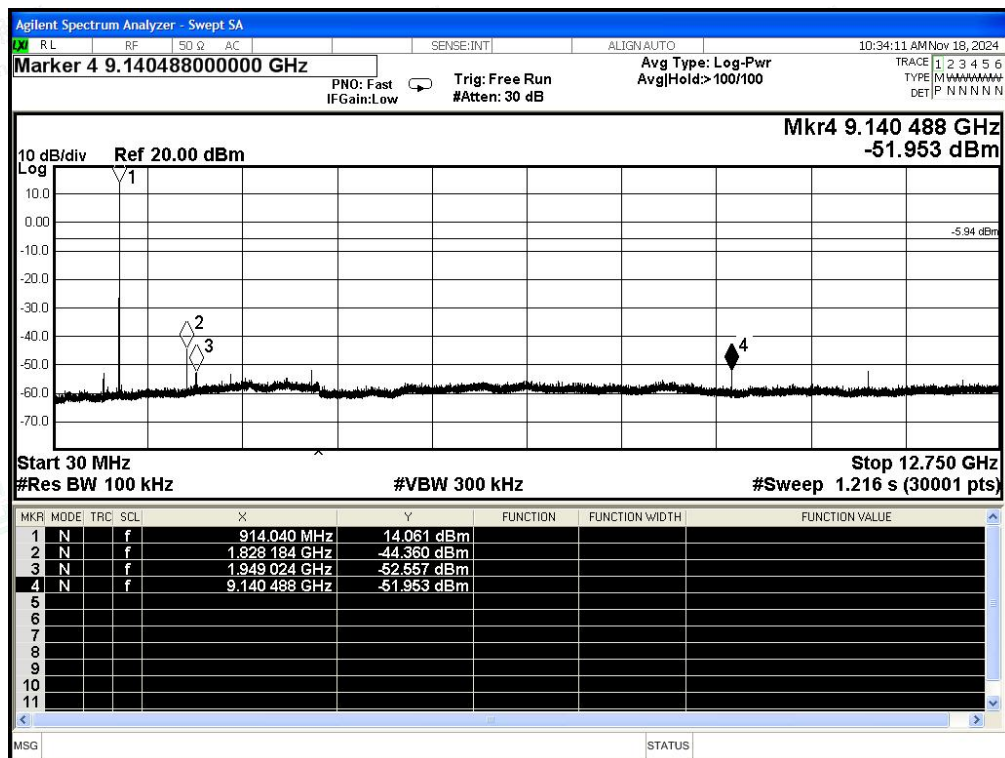
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Tx. Spurious NVNT 907.8MHz Ant2



Tx. Spurious NVNT 914.2MHz Ant2



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B.6 Duty Cycle

Condition	Frequency (MHz)	Antenna	Duty Cycle (%)	Limit	Verdict
NVNT	903.0	Ant1	100	---	PASS
NVNT	907.8	Ant1	100	---	PASS
NVNT	914.2	Ant1	100	---	PASS
NVNT	903.0	Ant2	100	---	PASS
NVNT	907.8	Ant2	100	---	PASS
NVNT	914.2	Ant2	100	---	PASS

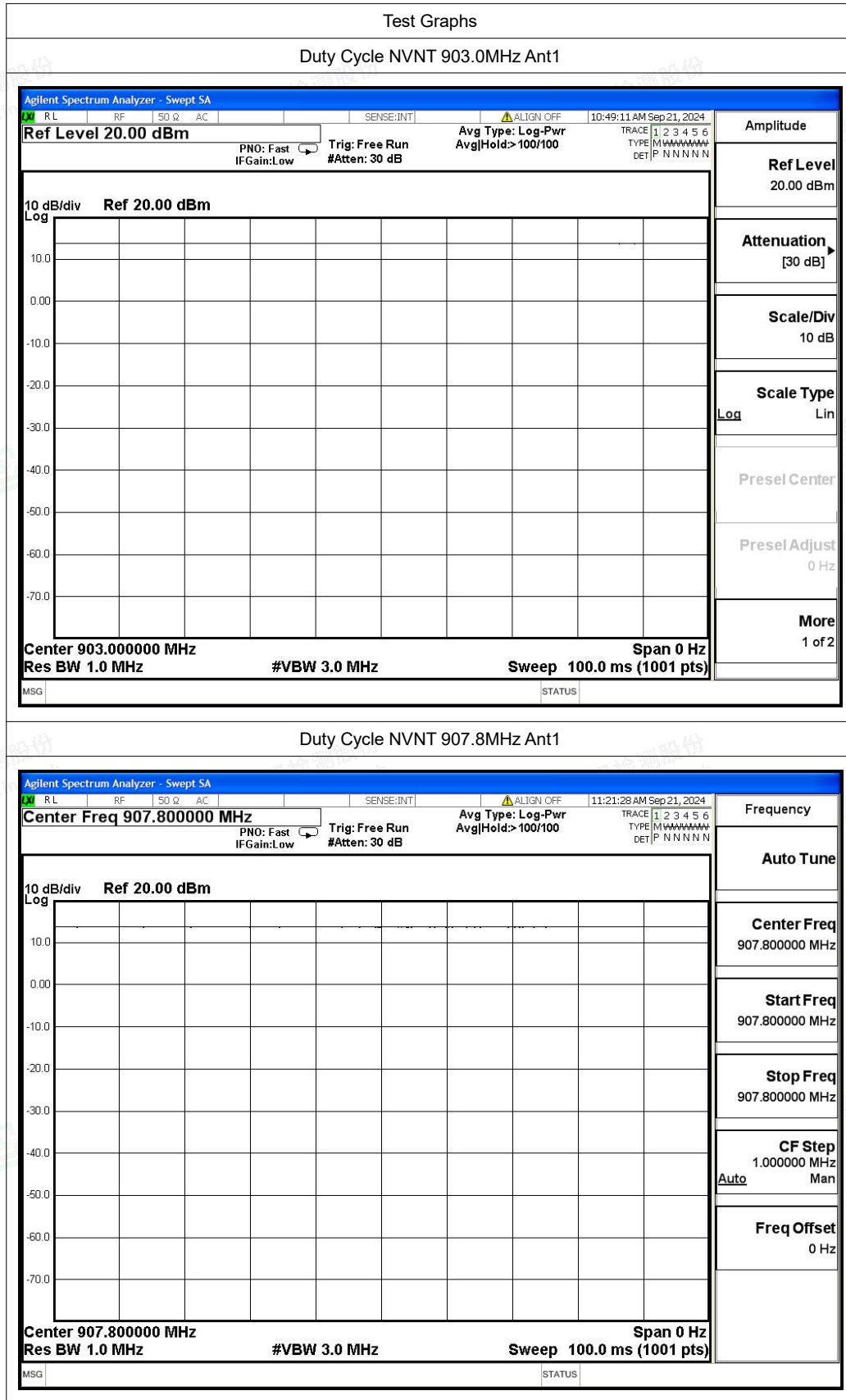


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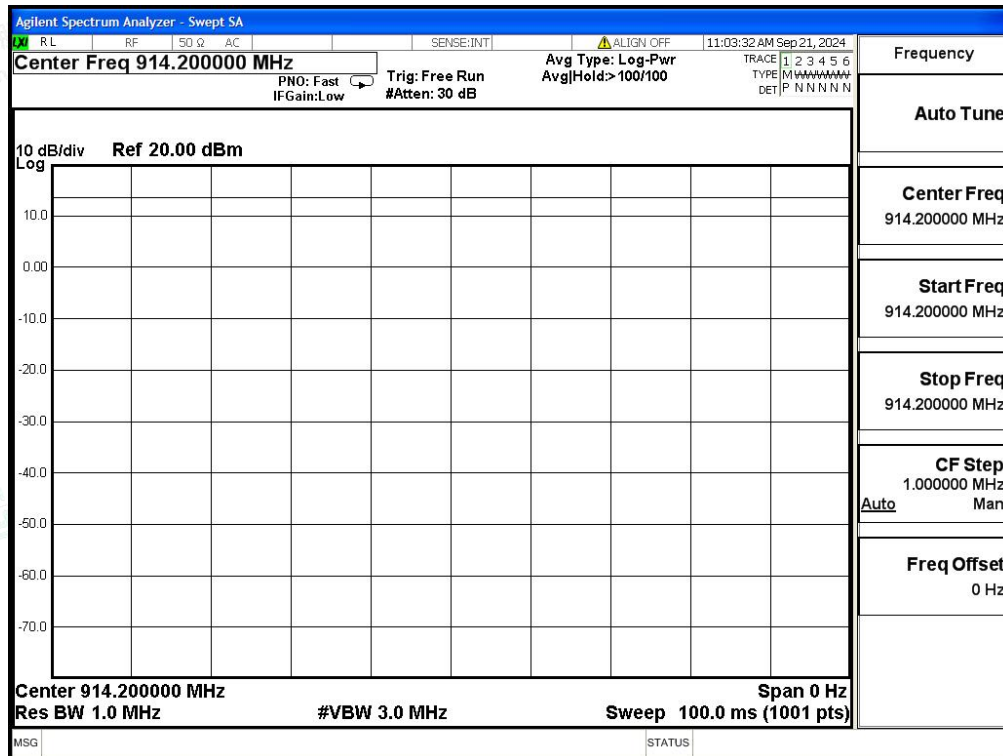
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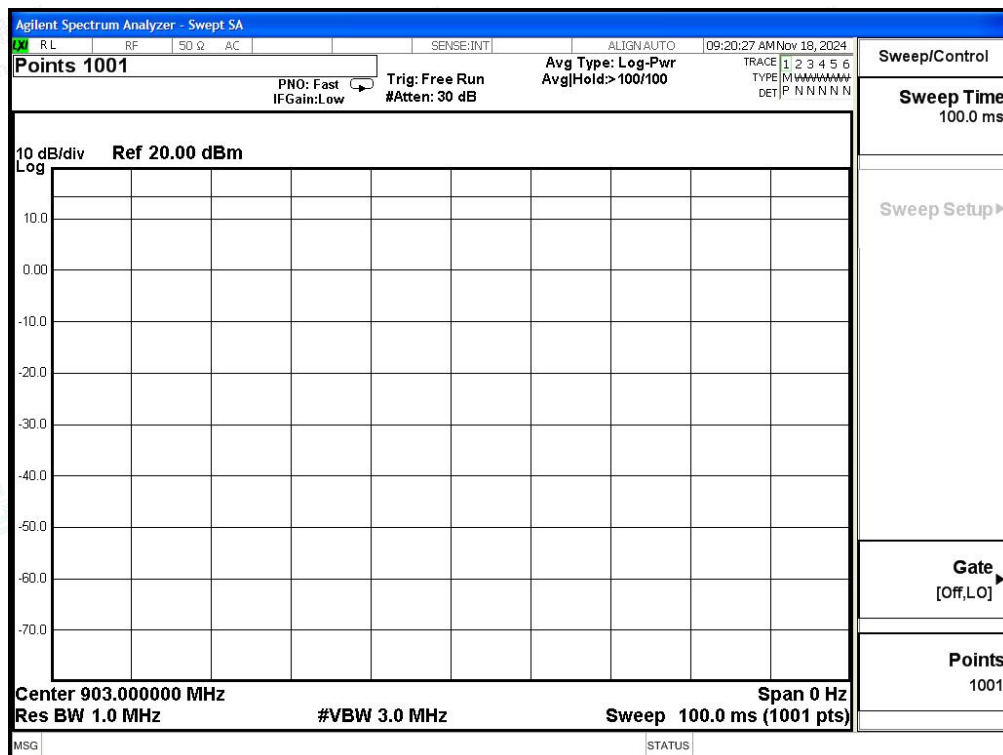
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Duty Cycle NVNT 914.2MHz Ant1



Duty Cycle NVNT 903.0MHz Ant2



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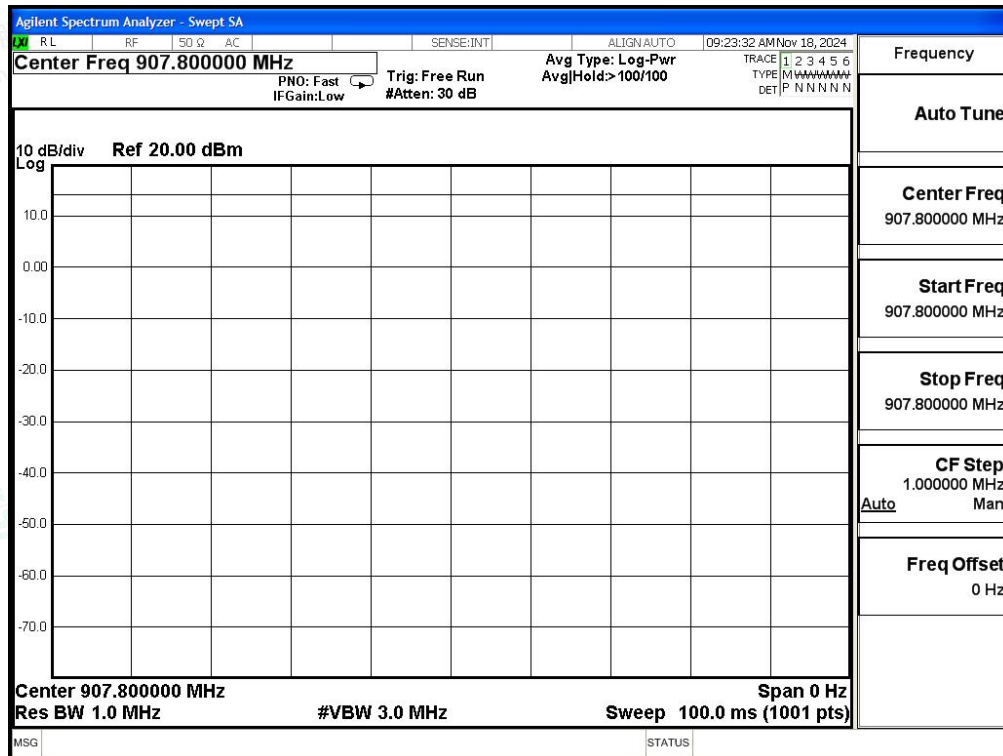
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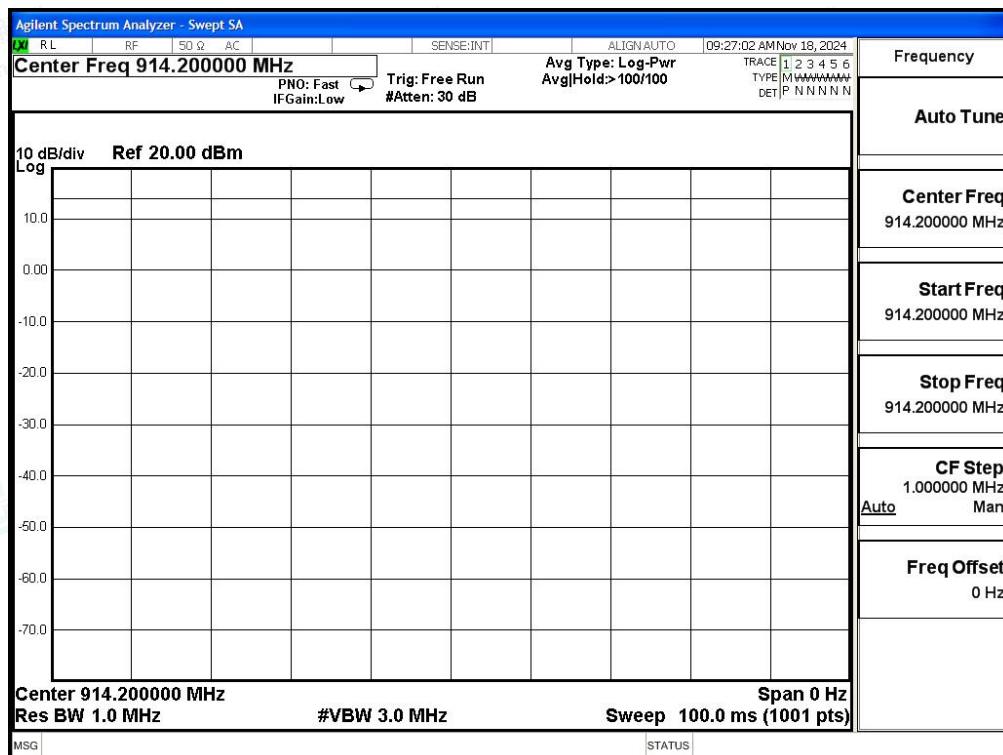
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Duty Cycle NVNT 907.8MHz Ant2



Duty Cycle NVNT 914.2MHz Ant2



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