

Appendix B

RF Test Data for BT LE(Conducted Measurement)

Product Name: Projector

Test Model: X3

Environmental Conditions

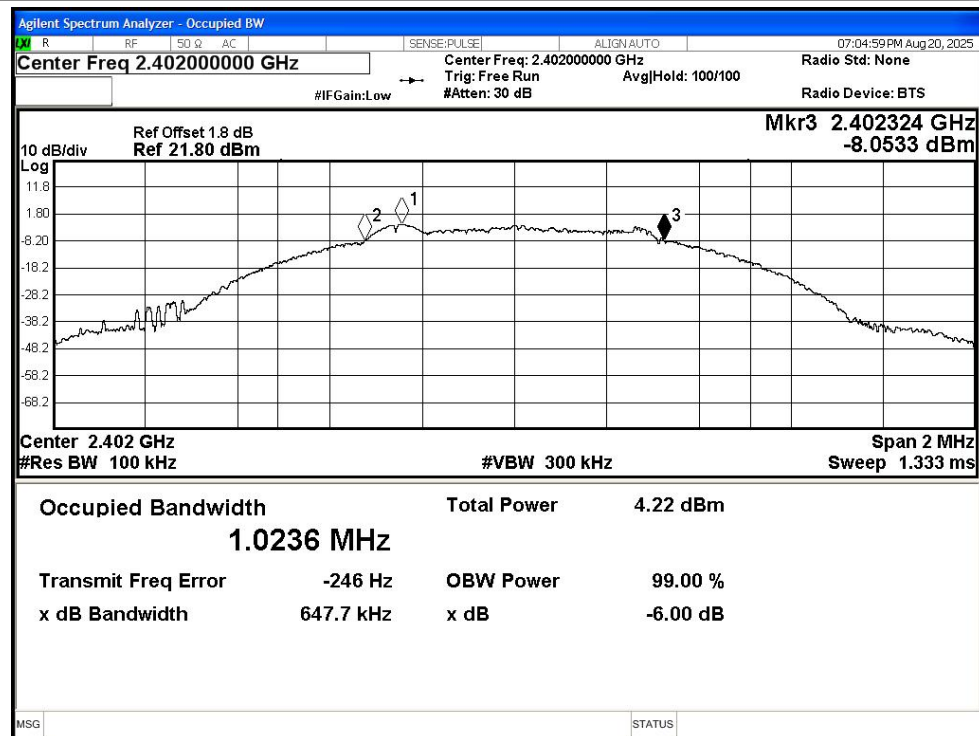
Temperature:	23.6°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Jone Lee
Supervised by:	Fengliu Tang

B.1 -6dB Bandwidth

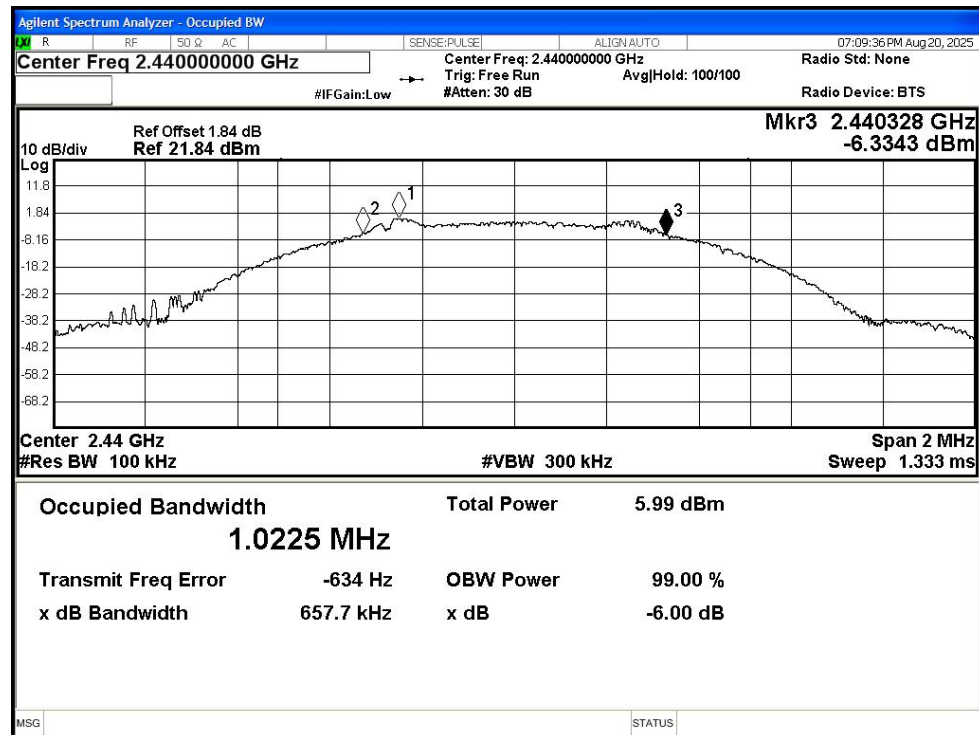
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.648	≥ 0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.658	≥ 0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.649	≥ 0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.142	≥ 0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.149	≥ 0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.137	≥ 0.5	Pass

Test Graphs

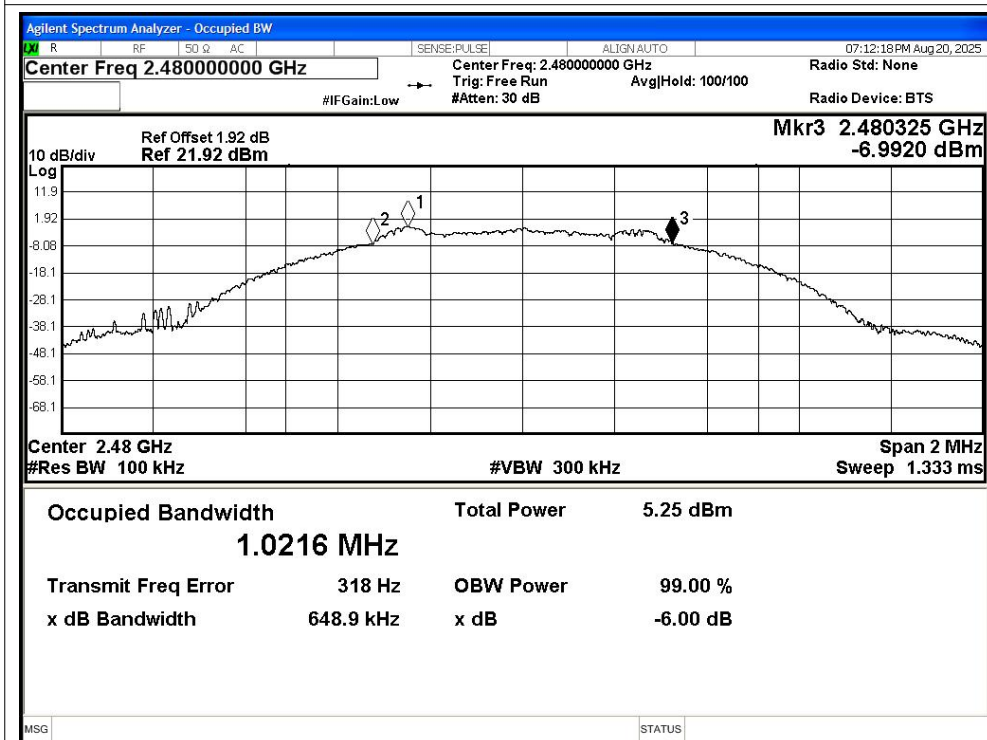
-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



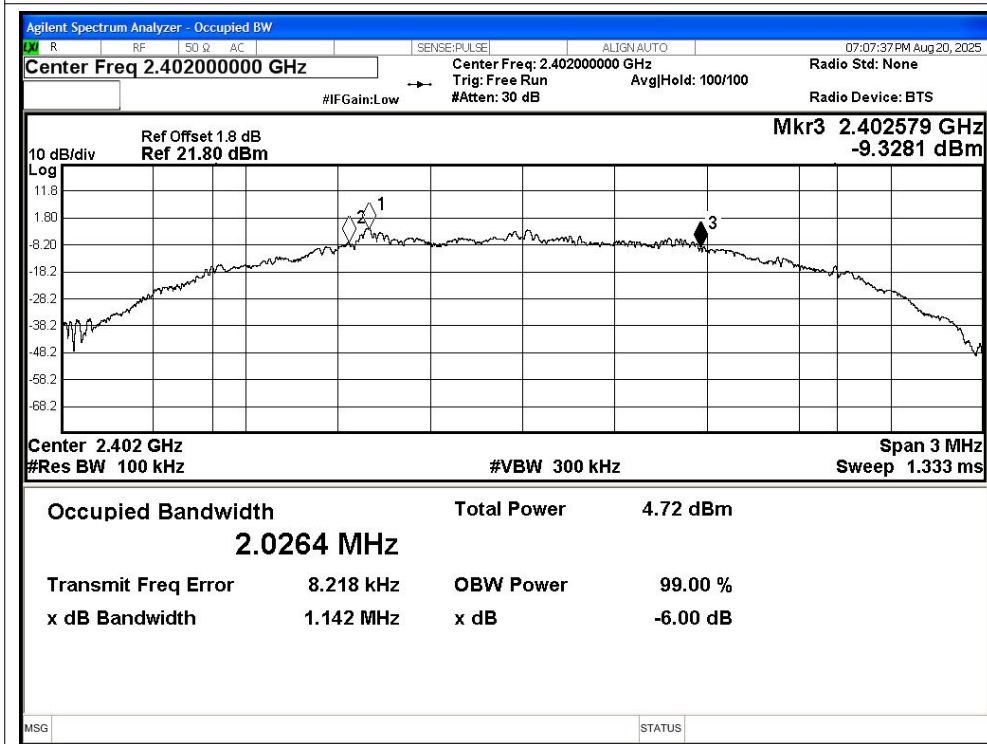
-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1



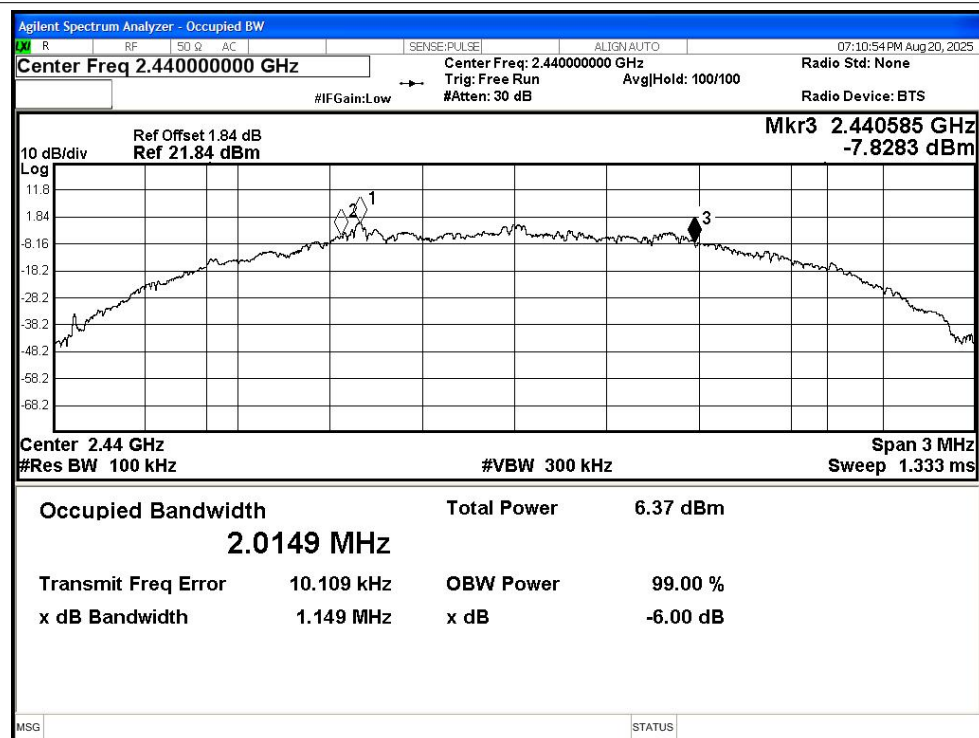
-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1



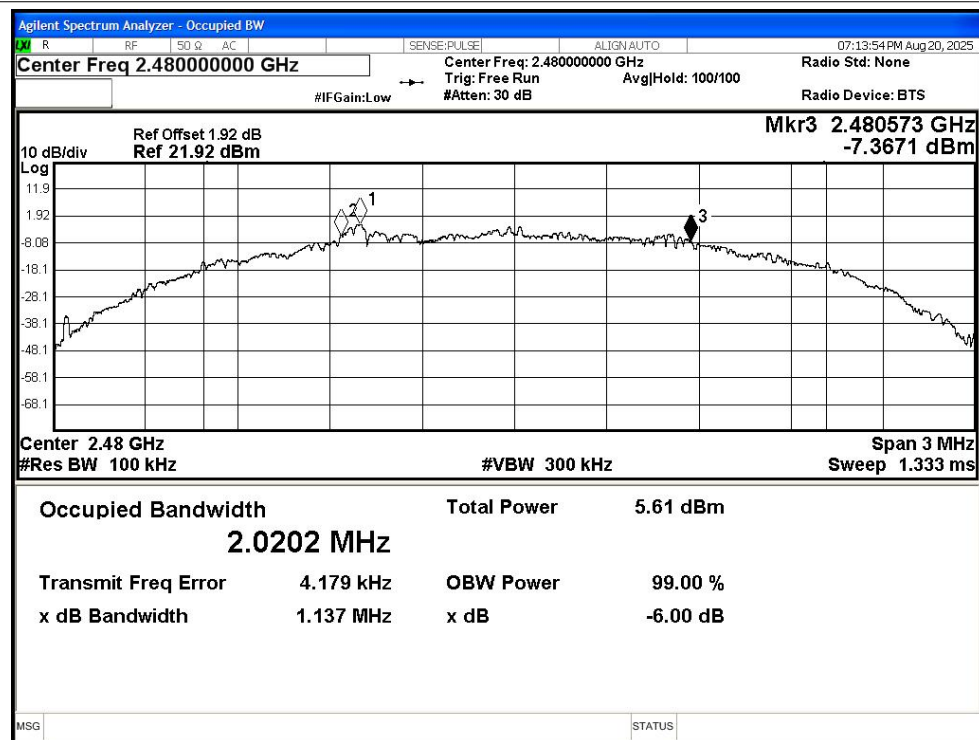
-6dB Bandwidth NVNT BLE 2M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2440MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2480MHz Ant1

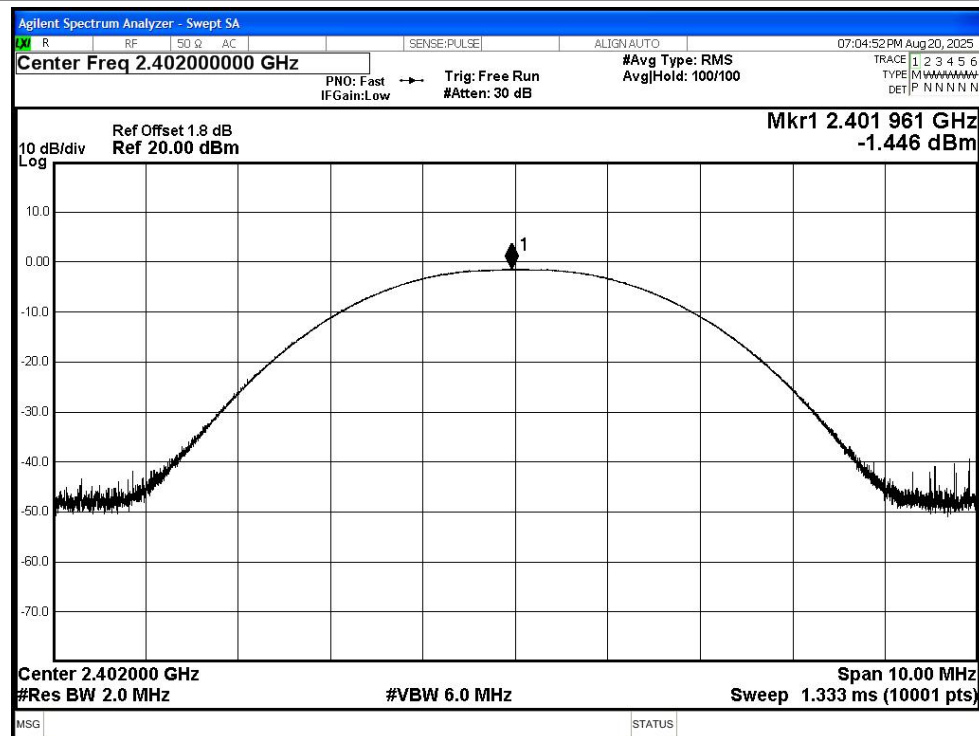


B.2 Maximum Peak Conducted Output Power

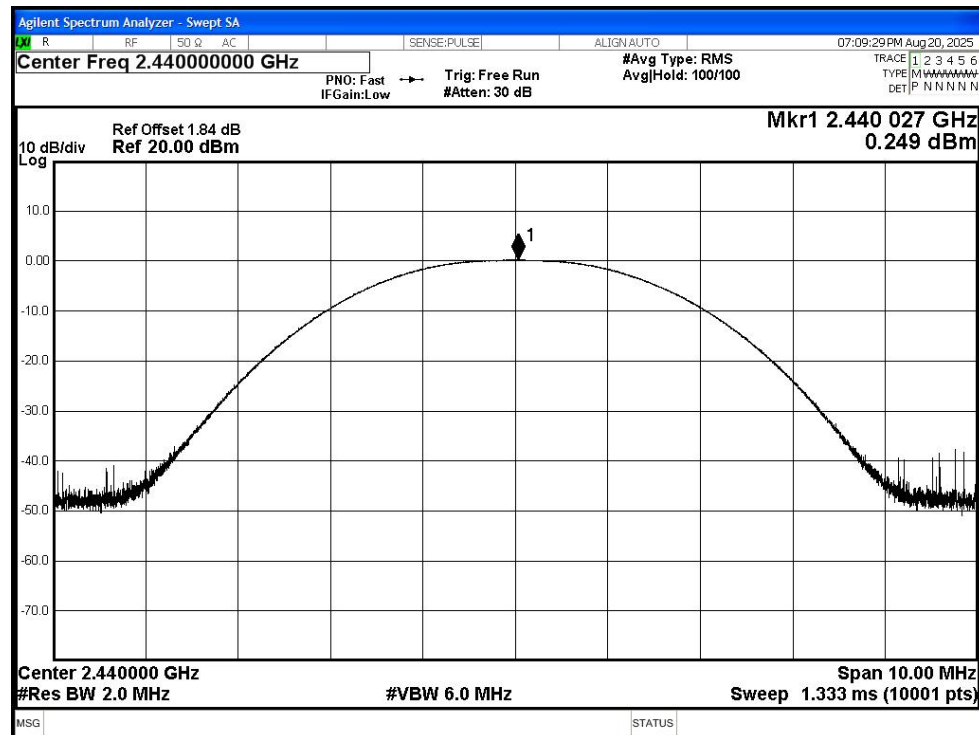
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-1.45	30	Pass
NVNT	BLE 1M	2440	Ant1	0.25	30	Pass
NVNT	BLE 1M	2480	Ant1	-0.63	30	Pass
NVNT	BLE 2M	2402	Ant1	-1.60	30	Pass
NVNT	BLE 2M	2440	Ant1	0.04	30	Pass
NVNT	BLE 2M	2480	Ant1	-0.73	30	Pass

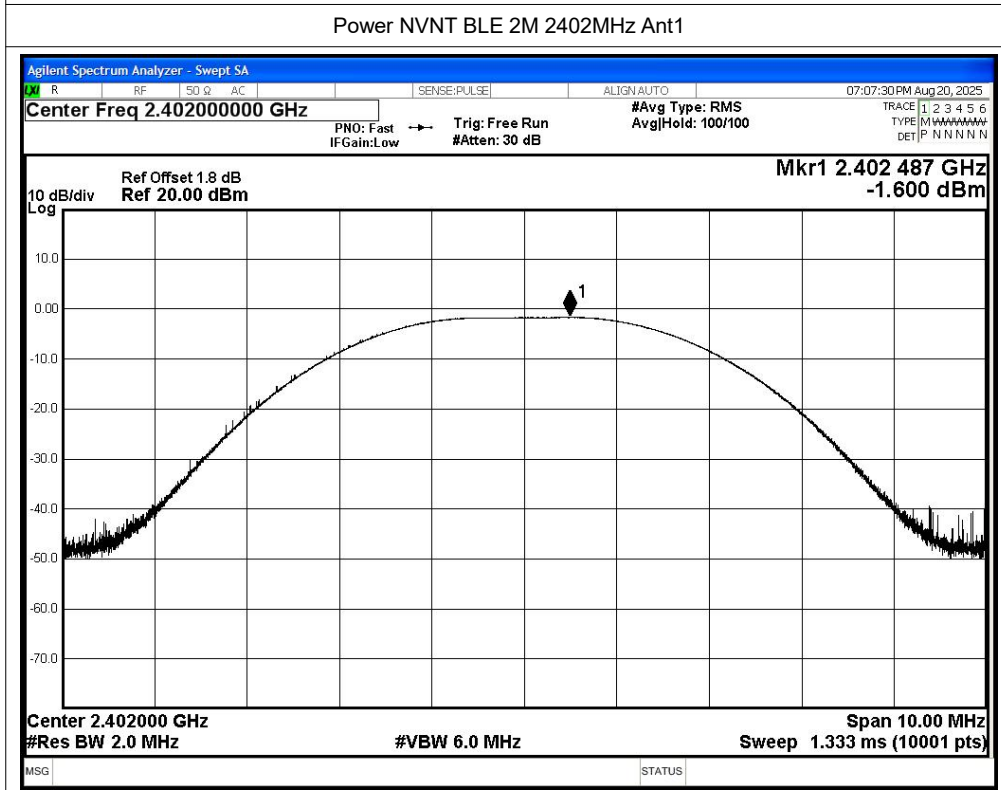
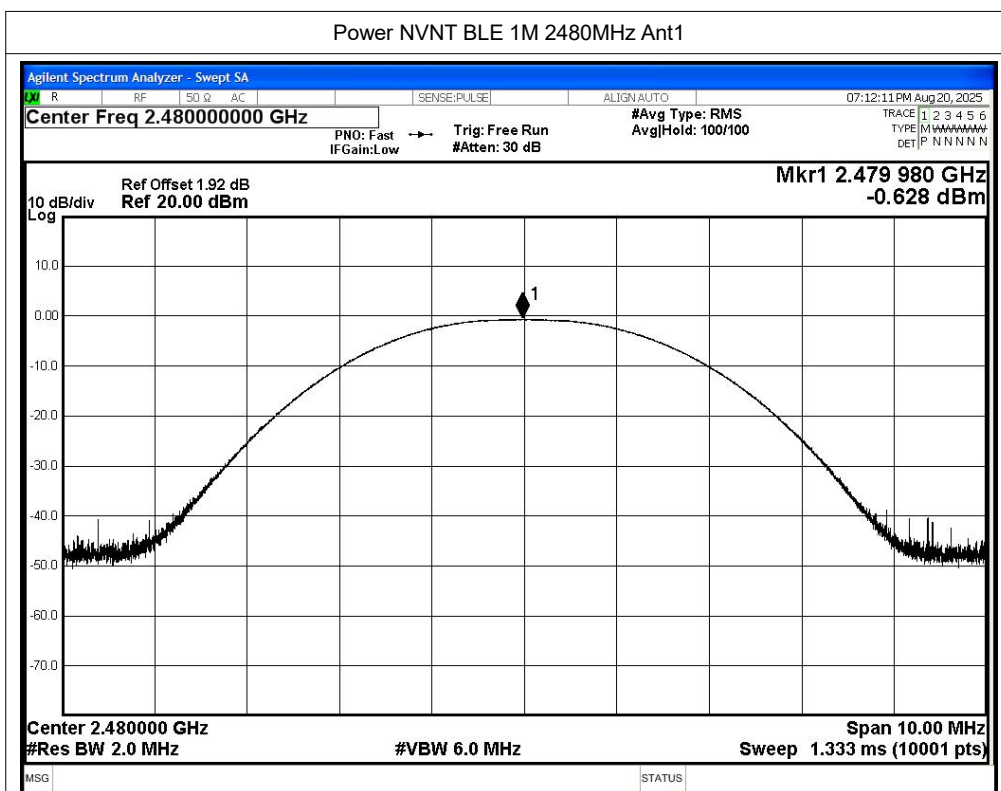
Test Graphs

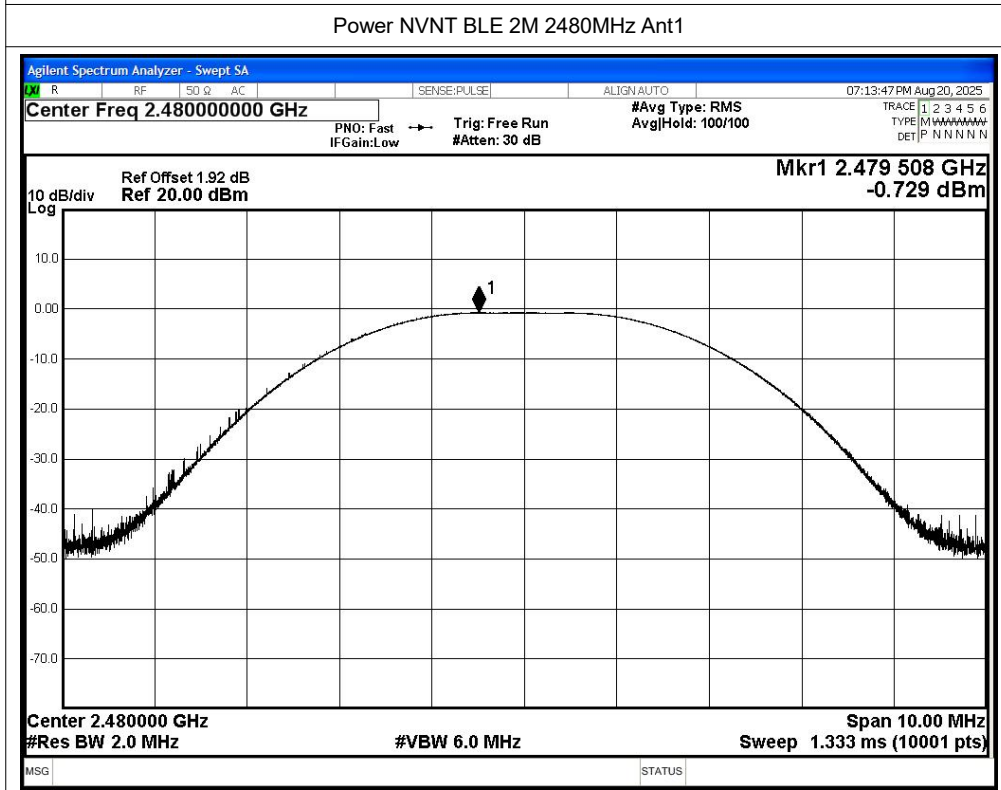
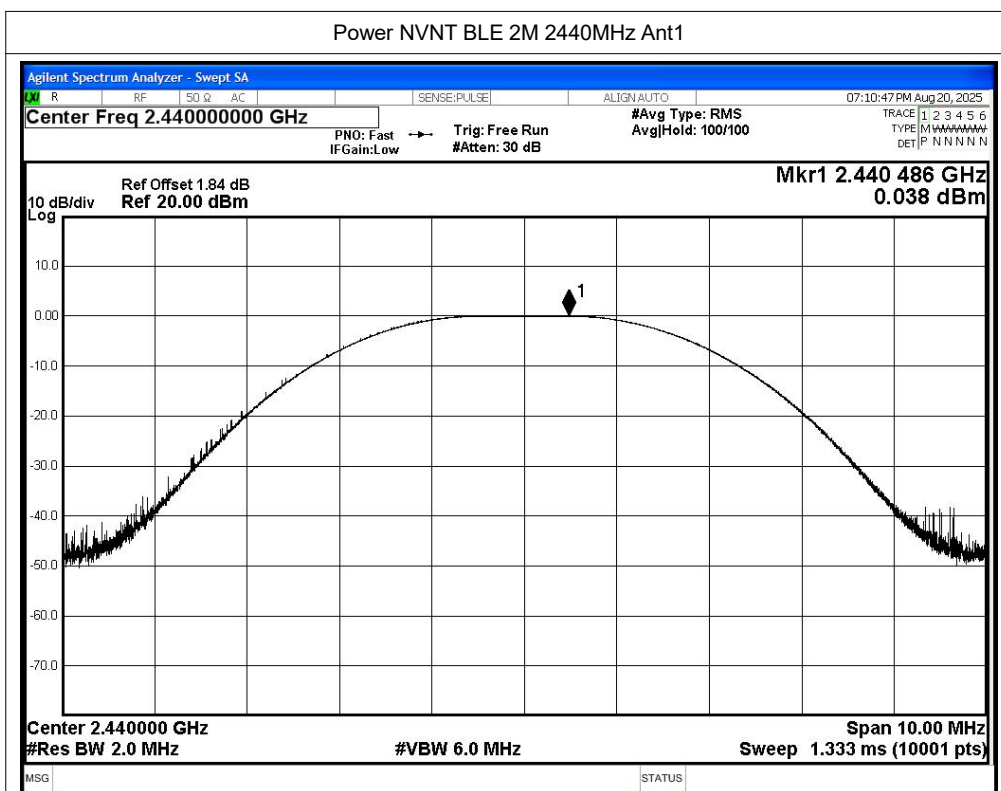
Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1



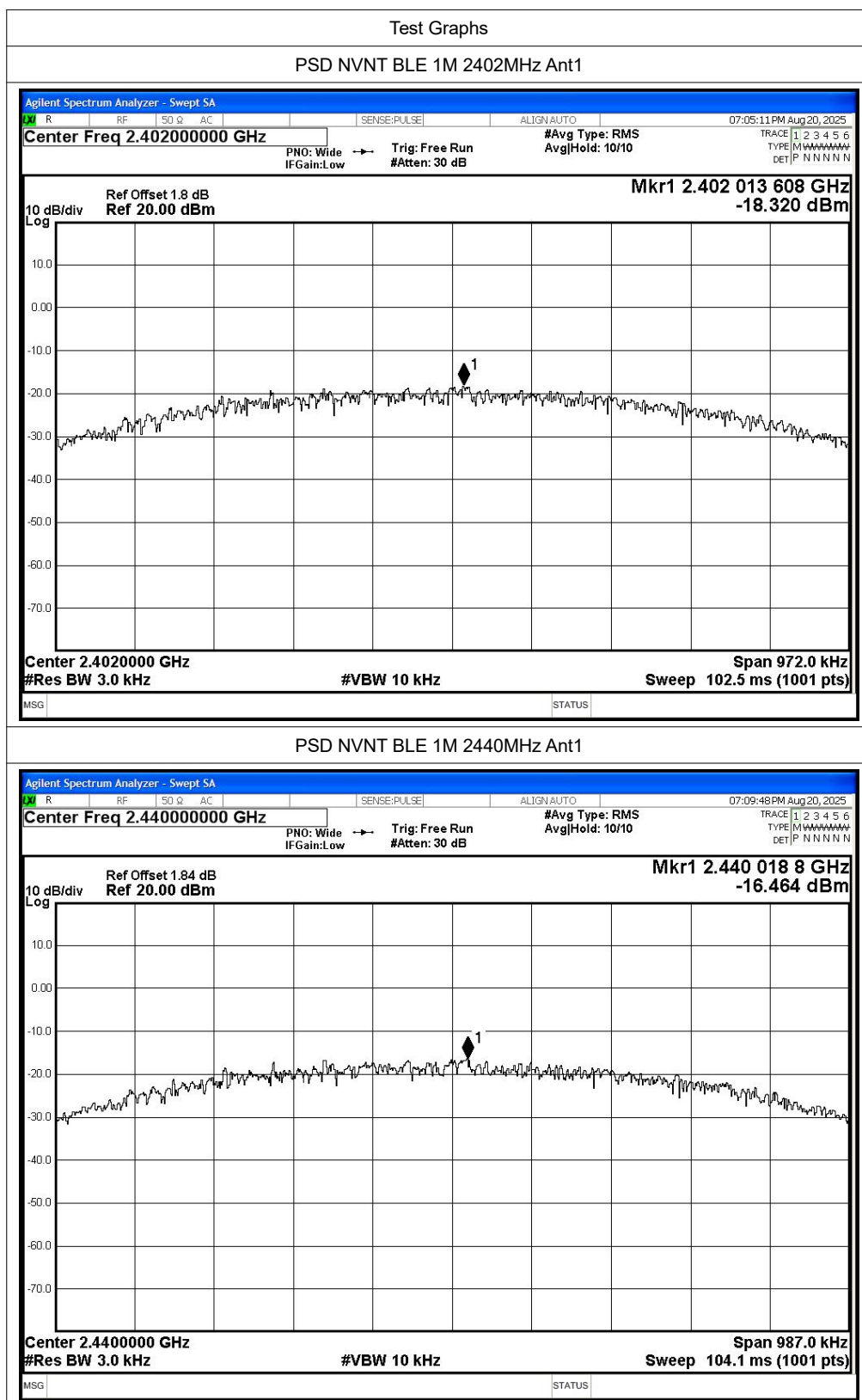




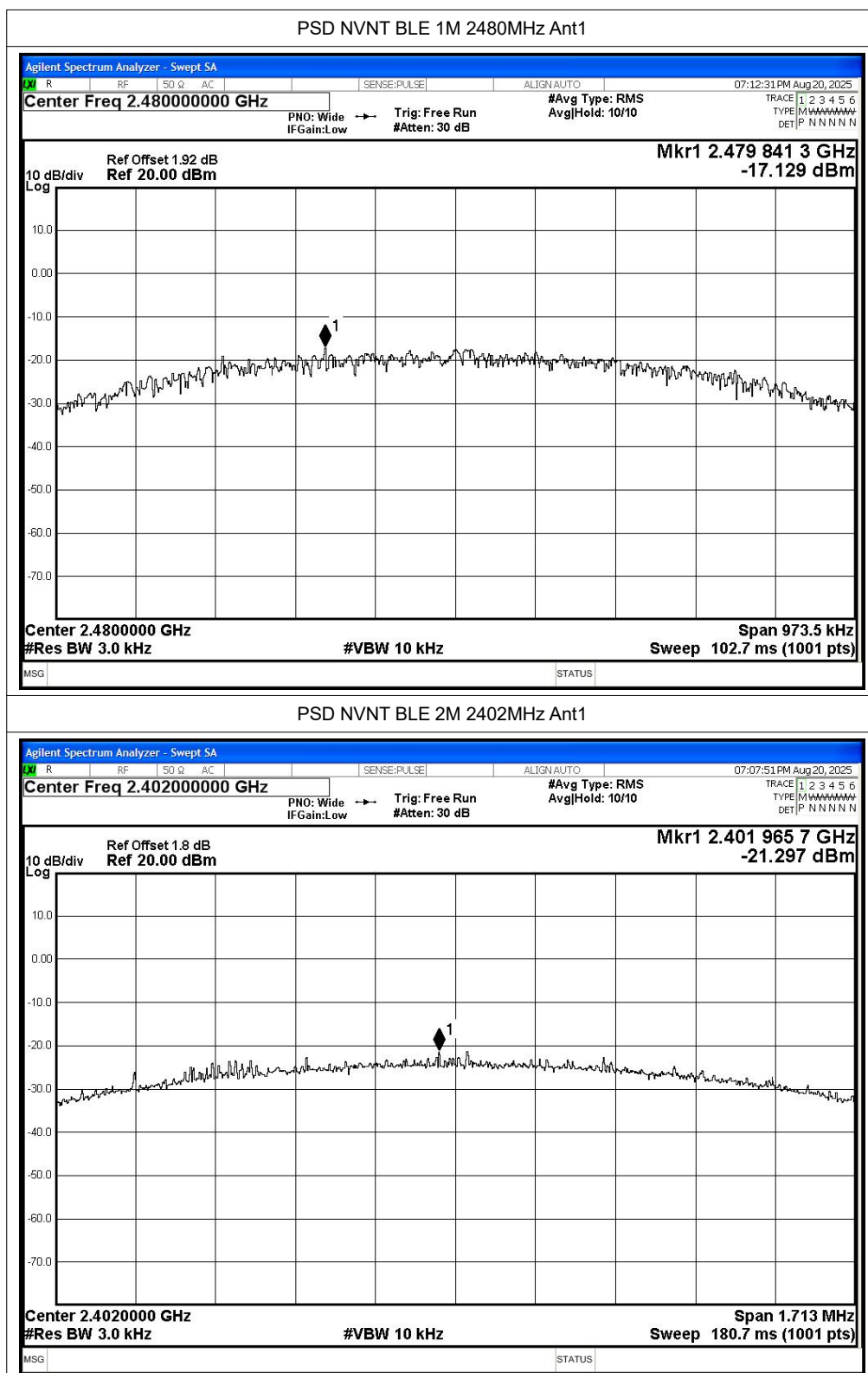
B.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-18.32	8	Pass
NVNT	BLE 1M	2440	Ant1	-16.46	8	Pass
NVNT	BLE 1M	2480	Ant1	-17.13	8	Pass
NVNT	BLE 2M	2402	Ant1	-21.3	8	Pass
NVNT	BLE 2M	2440	Ant1	-19.44	8	Pass
NVNT	BLE 2M	2480	Ant1	-20.18	8	Pass

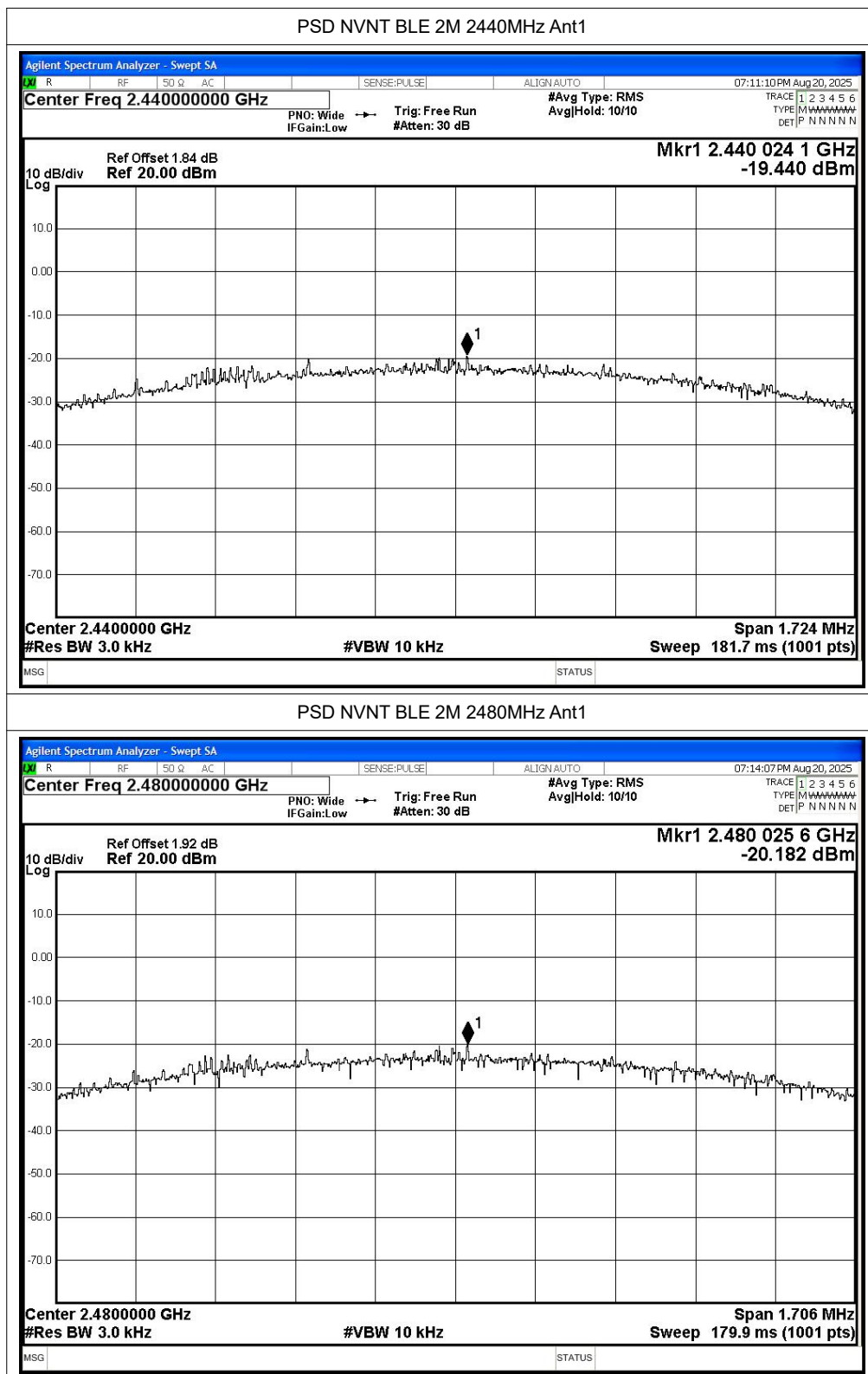
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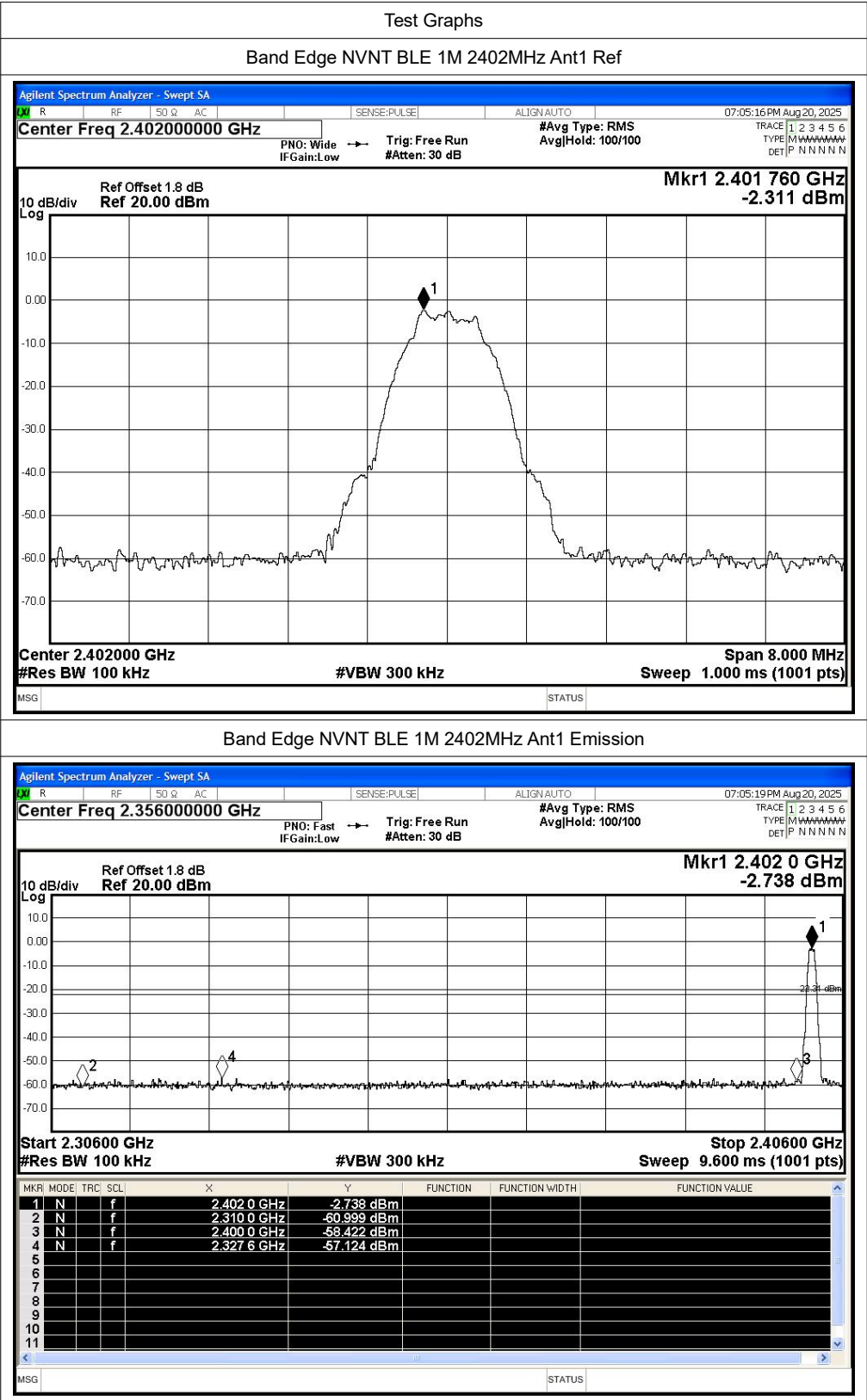
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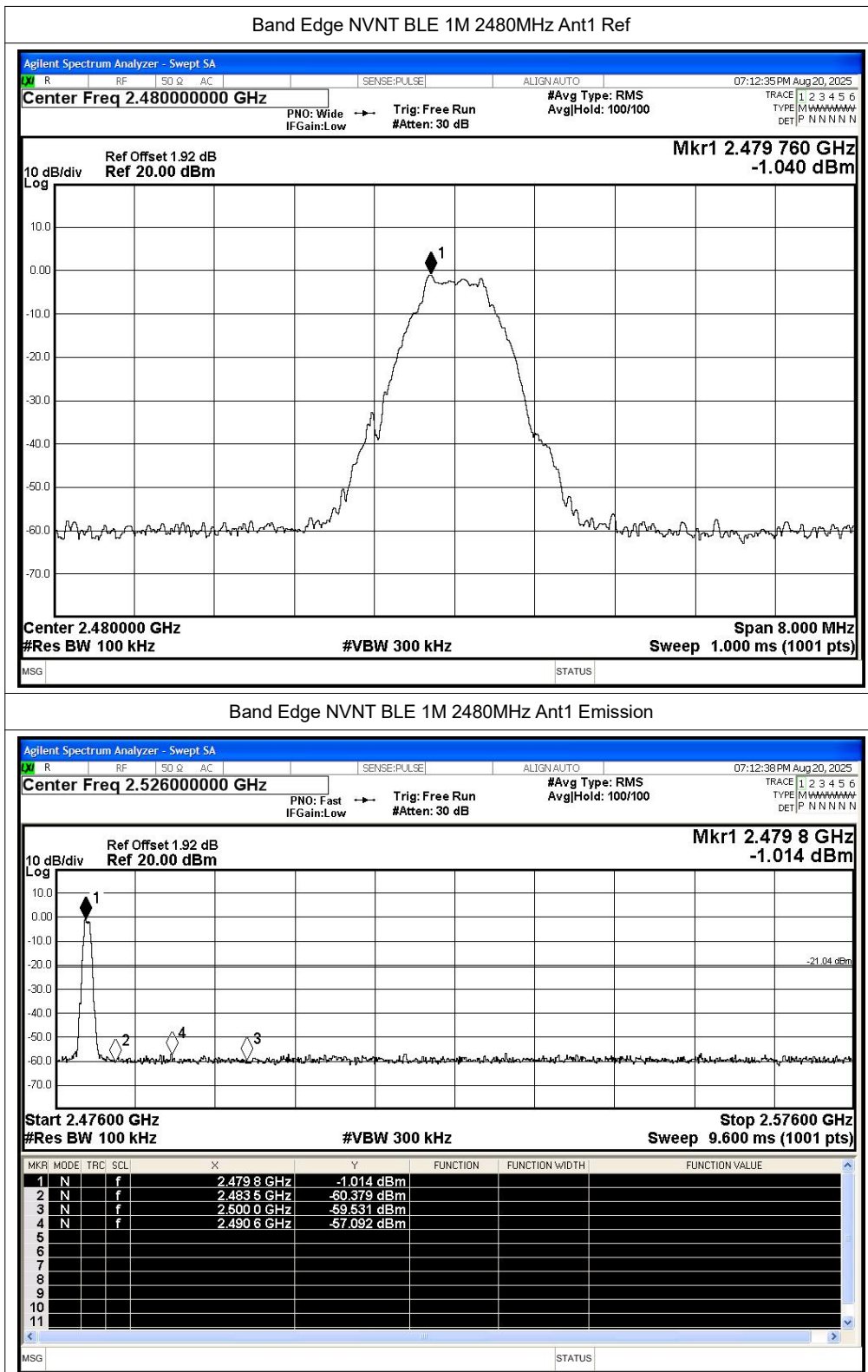
B.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-54.81	-20	Pass
NVNT	BLE 1M	2480	Ant1	-56.05	-20	Pass
NVNT	BLE 2M	2402	Ant1	-46.25	-20	Pass
NVNT	BLE 2M	2480	Ant1	-54.98	-20	Pass

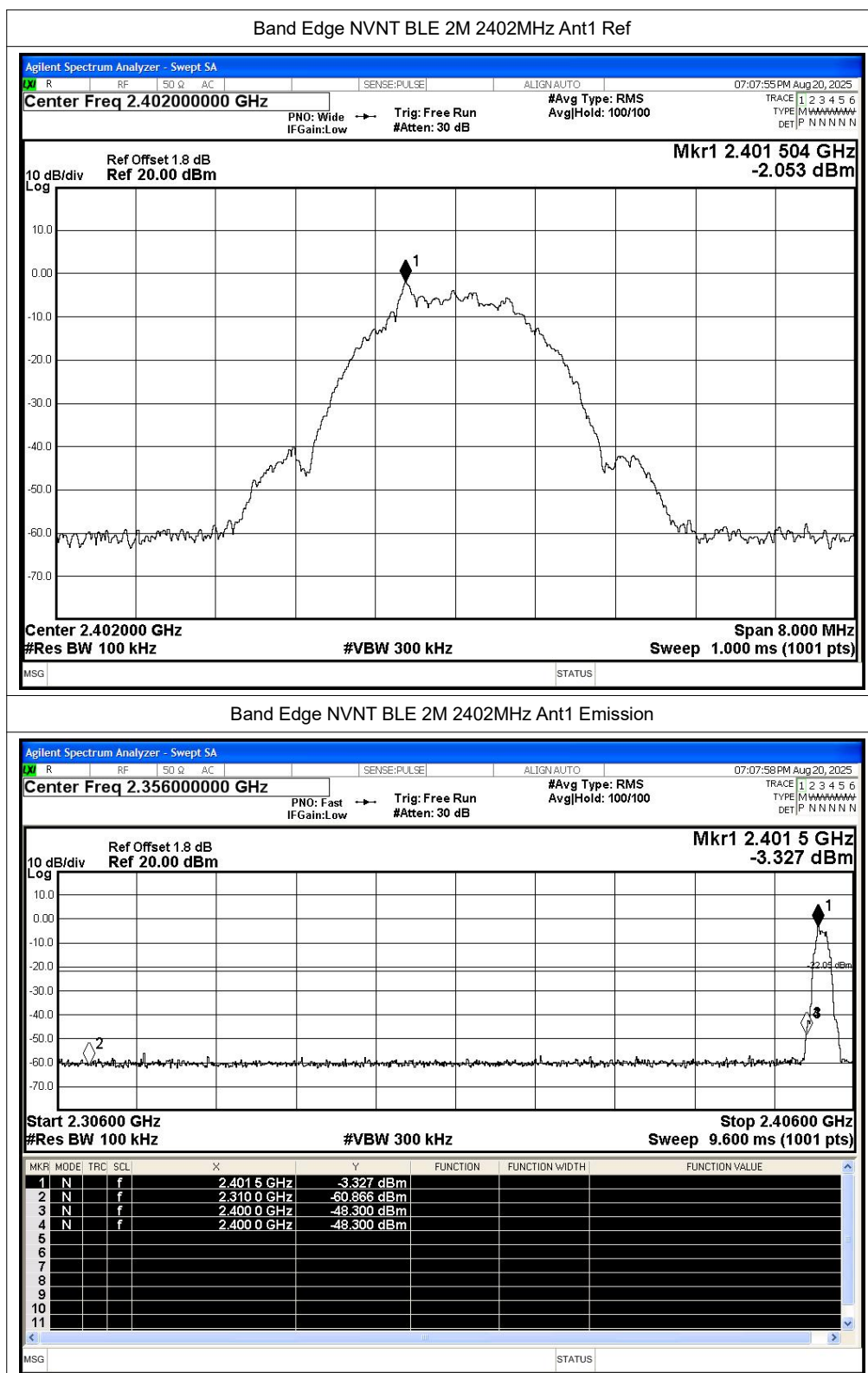
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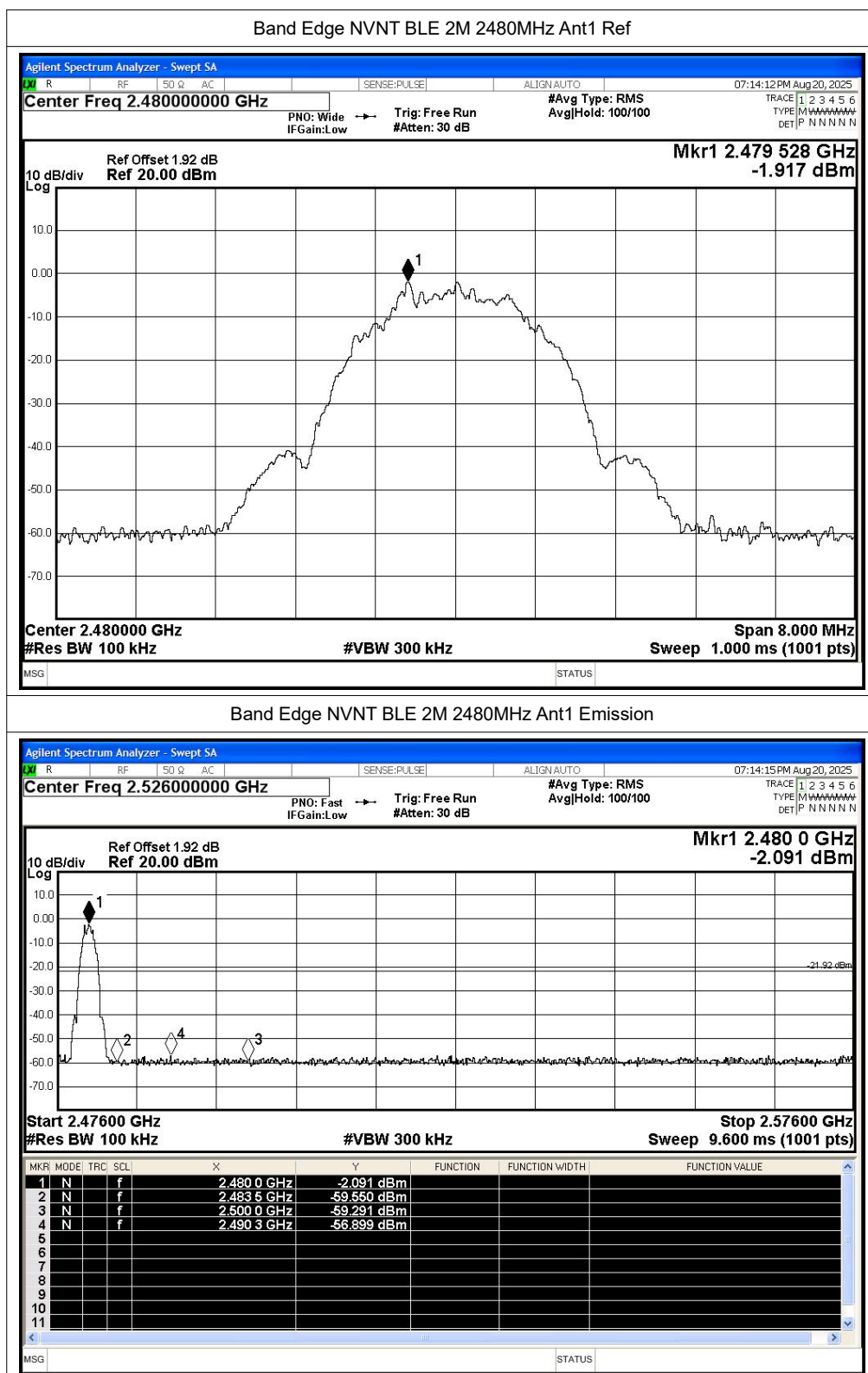
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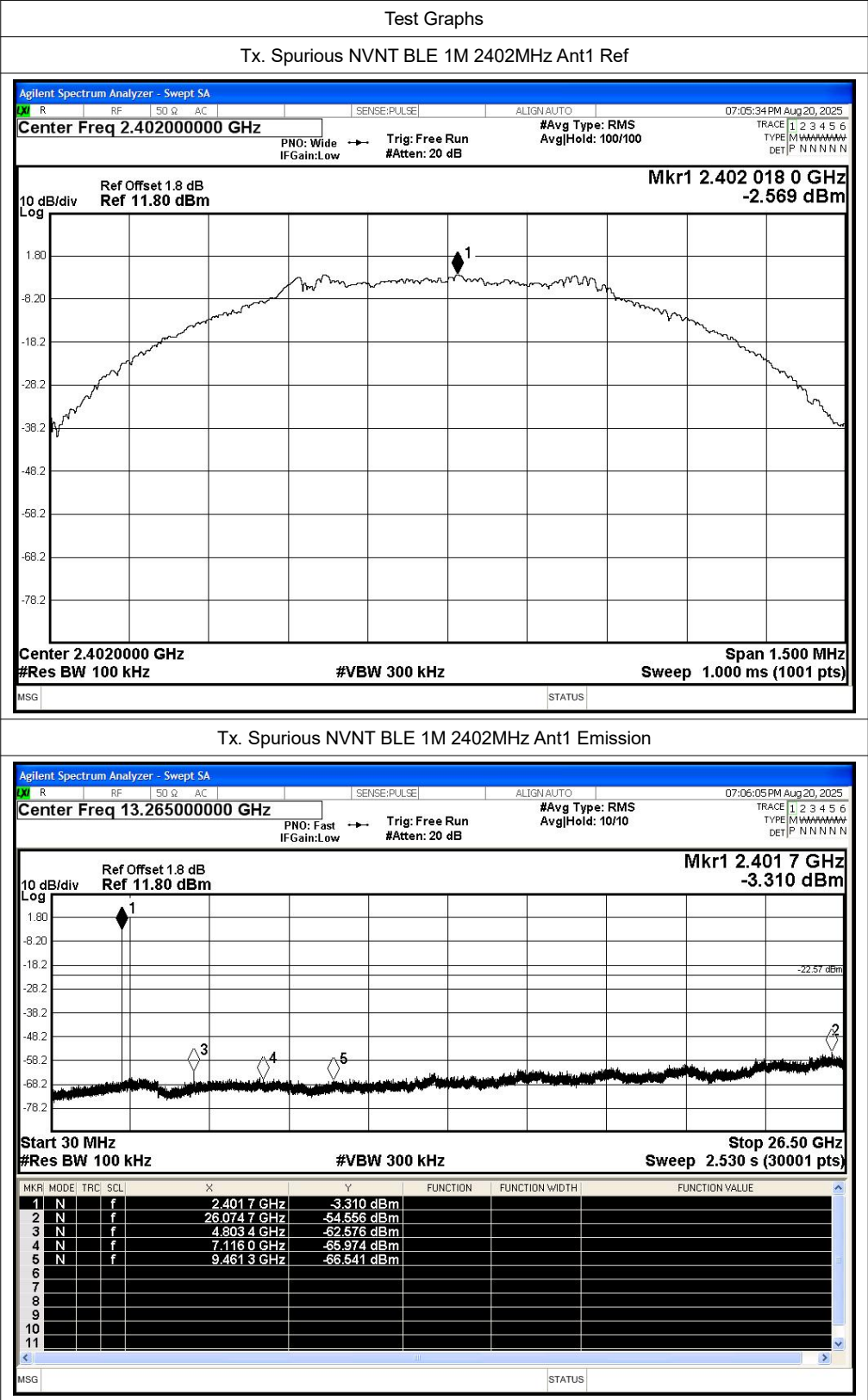
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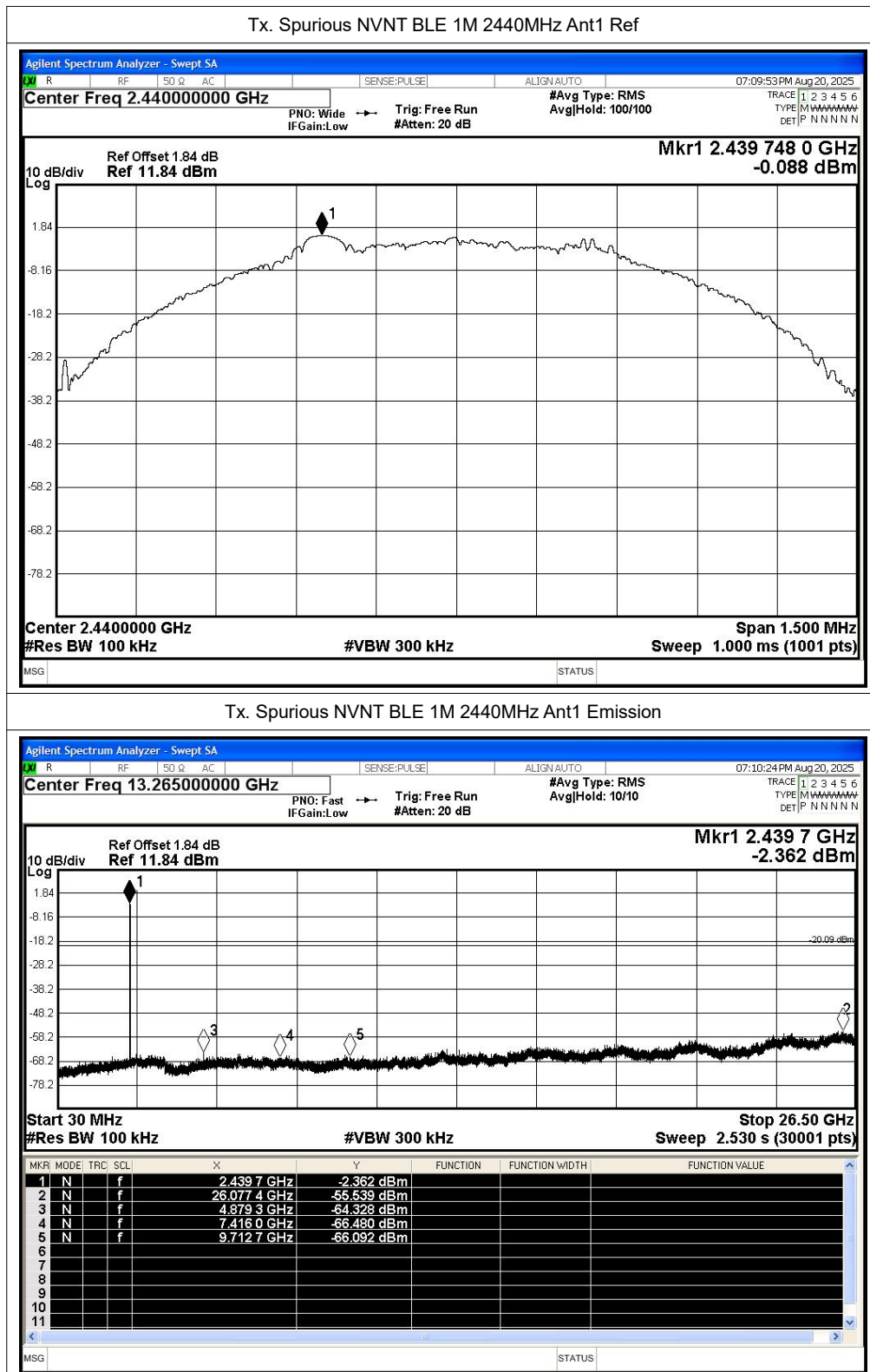
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B.5 Conducted RF Spurious Emission

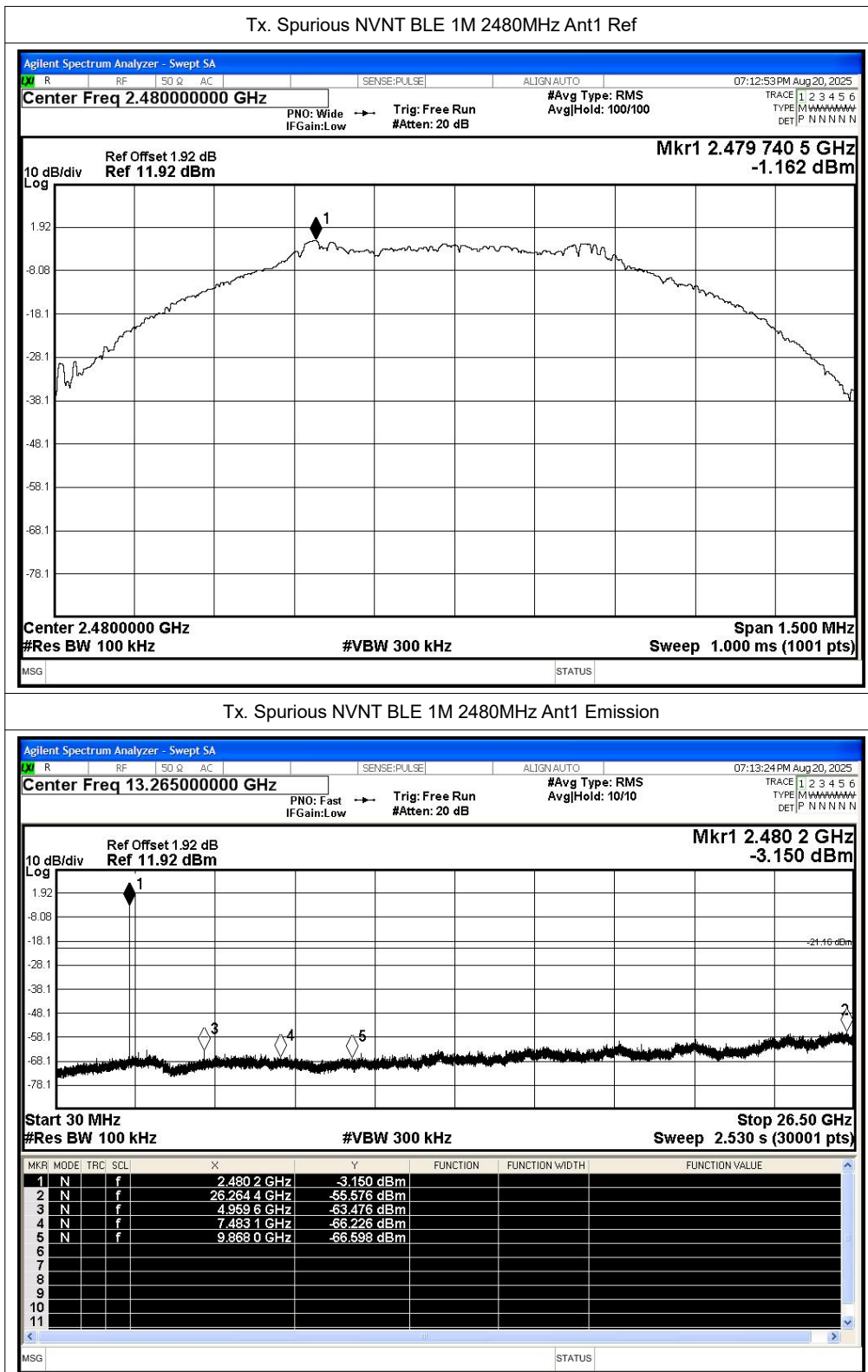
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-51.99	-20	Pass
NVNT	BLE 1M	2440	Ant1	-55.45	-20	Pass
NVNT	BLE 1M	2480	Ant1	-54.41	-20	Pass
NVNT	BLE 2M	2402	Ant1	-42.55	-20	Pass
NVNT	BLE 2M	2440	Ant1	-48.58	-20	Pass
NVNT	BLE 2M	2480	Ant1	-53.72	-20	Pass



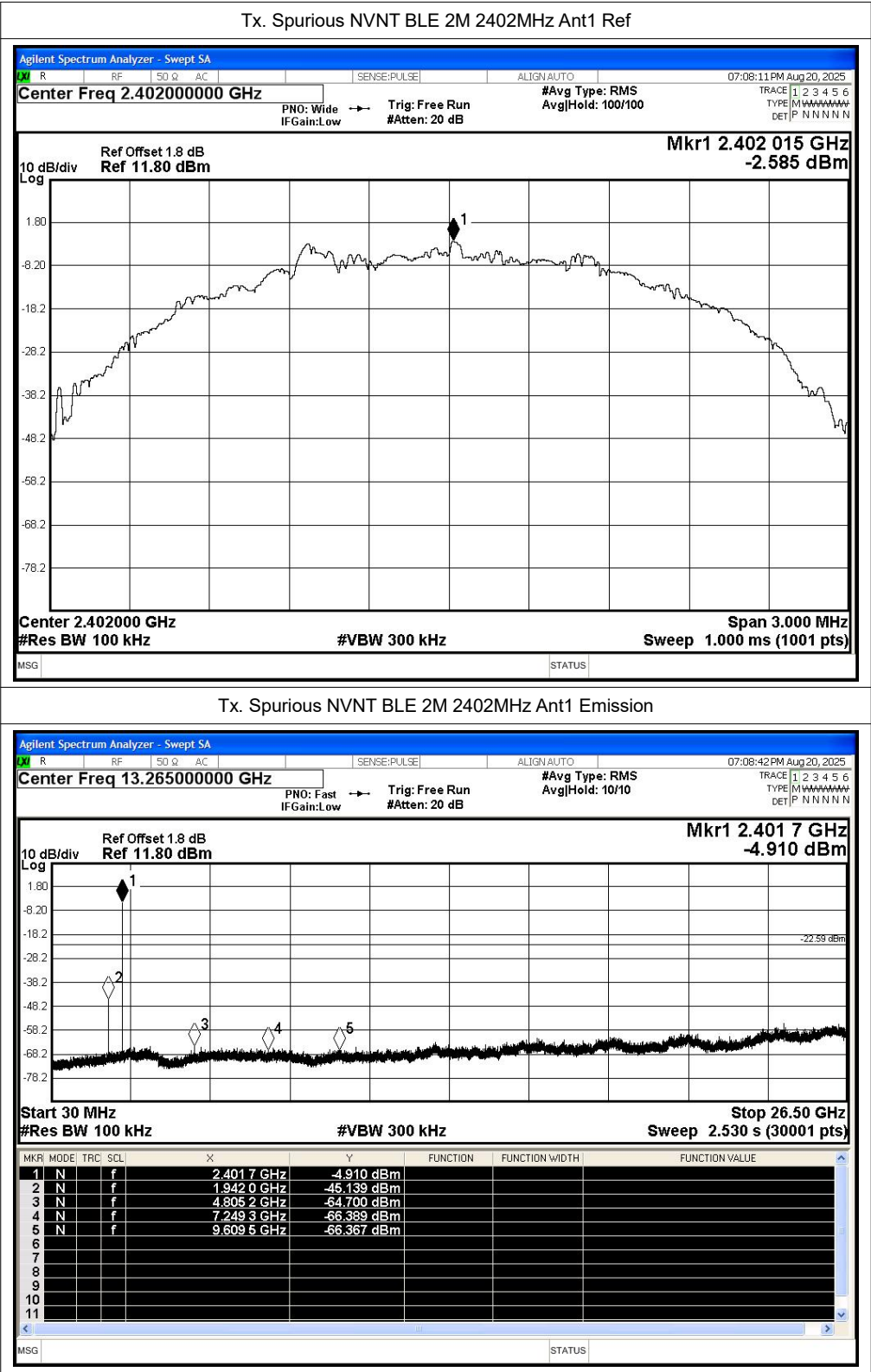
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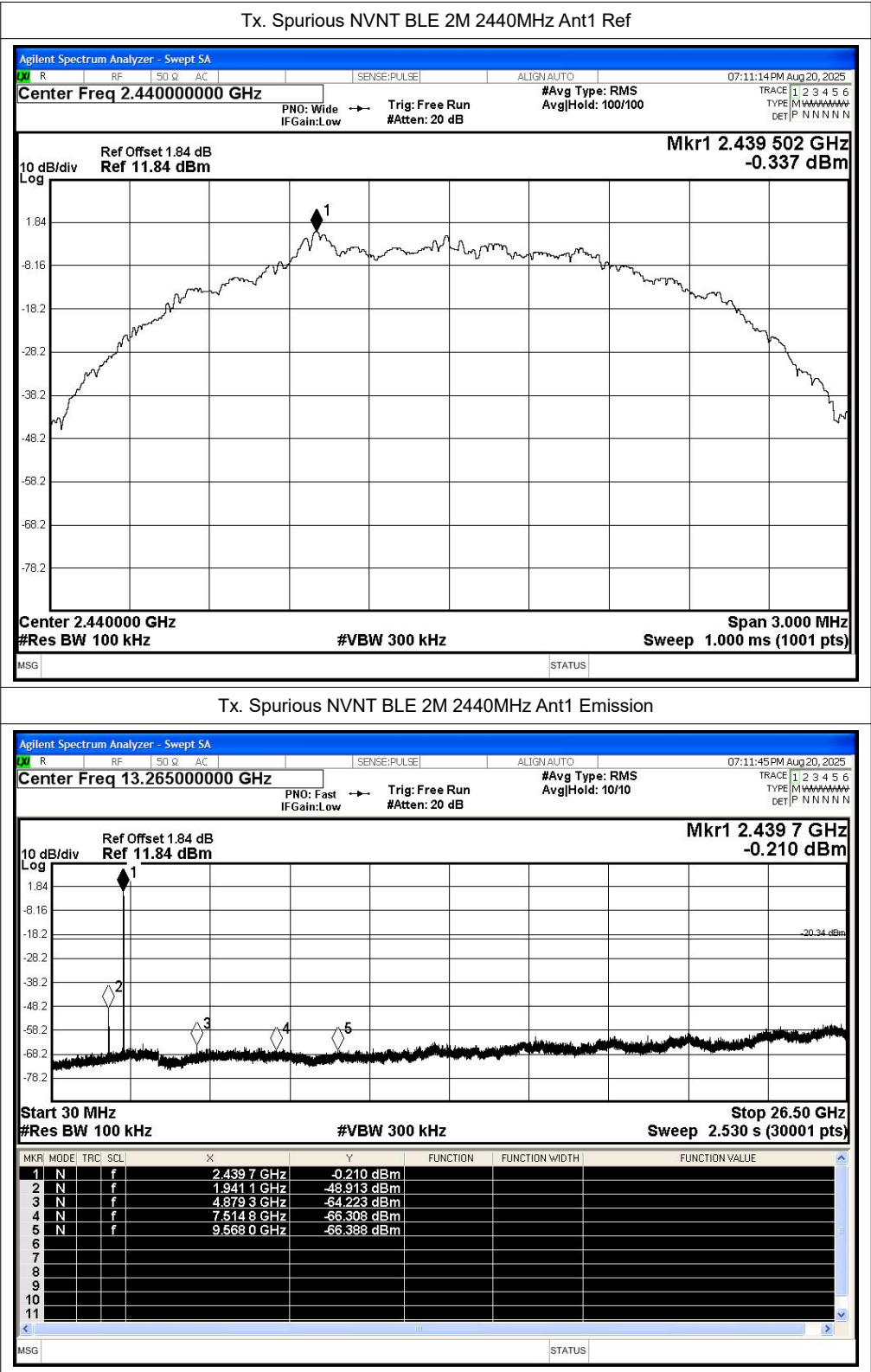
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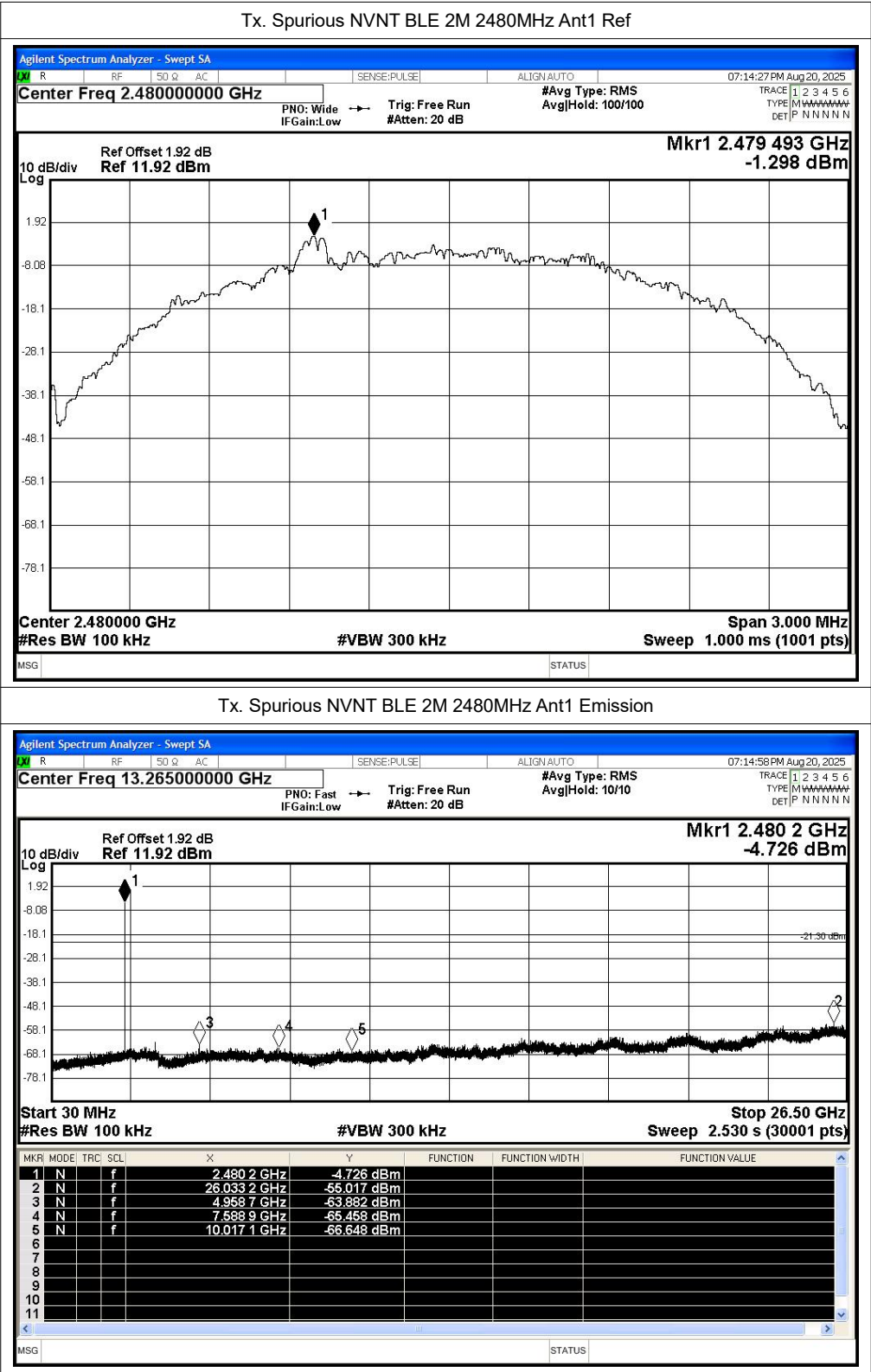
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LCSC08015009EB



LCSC08015009EB

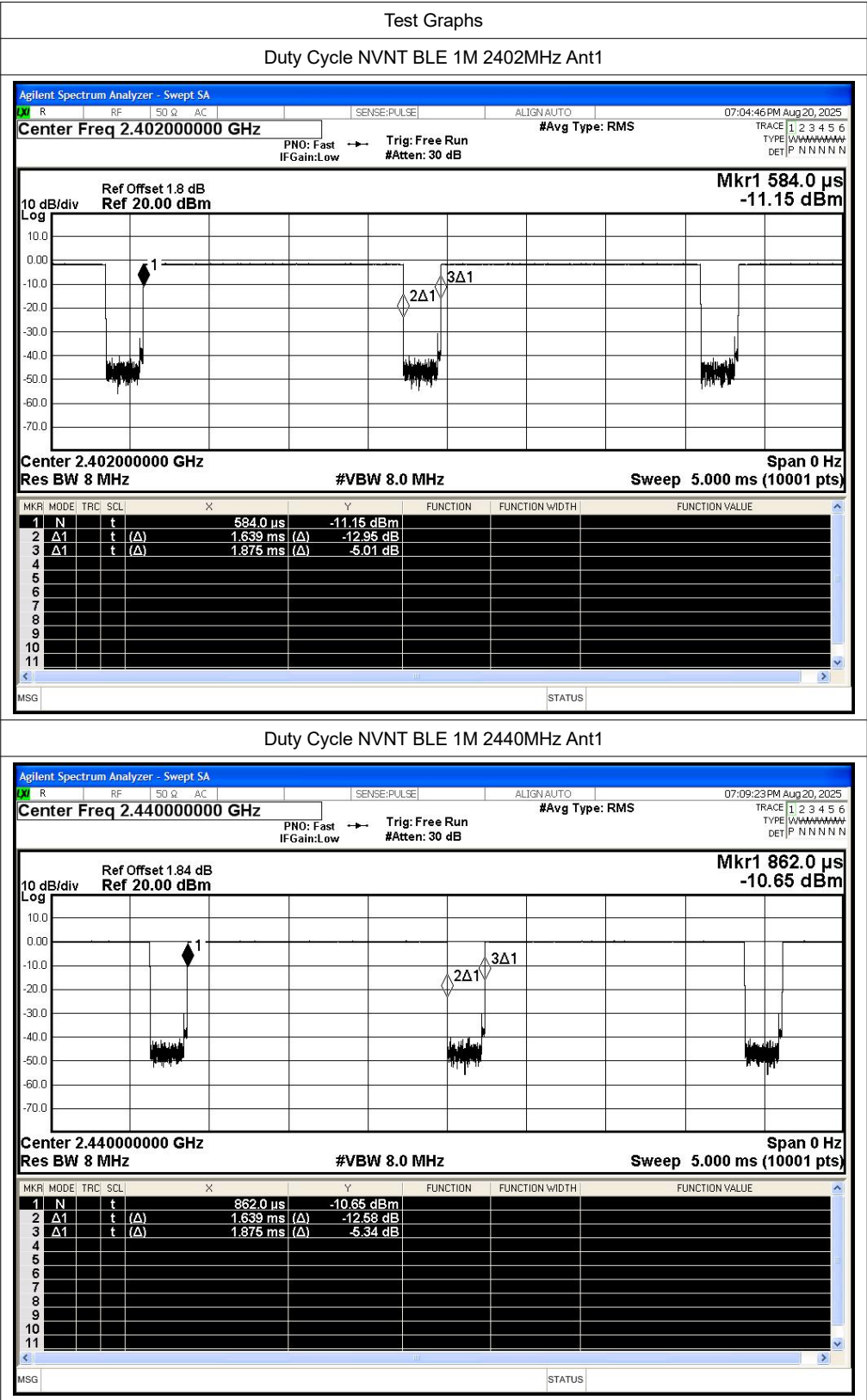


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B.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	87.39	0.59	0.61
NVNT	BLE 1M	2440	Ant1	87.39	0.59	0.61
NVNT	BLE 1M	2480	Ant1	87.39	0.59	0.61
NVNT	BLE 2M	2402	Ant1	65.89	1.81	1.21
NVNT	BLE 2M	2440	Ant1	65.92	1.81	1.21
NVNT	BLE 2M	2480	Ant1	65.93	1.81	1.21

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