



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: PARTY SPEAKER

Test Model: IQ-7712DJBT

Environmental Conditions

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



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B.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.658	≥ 0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.664	≥ 0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.699	≥ 0.5	Pass

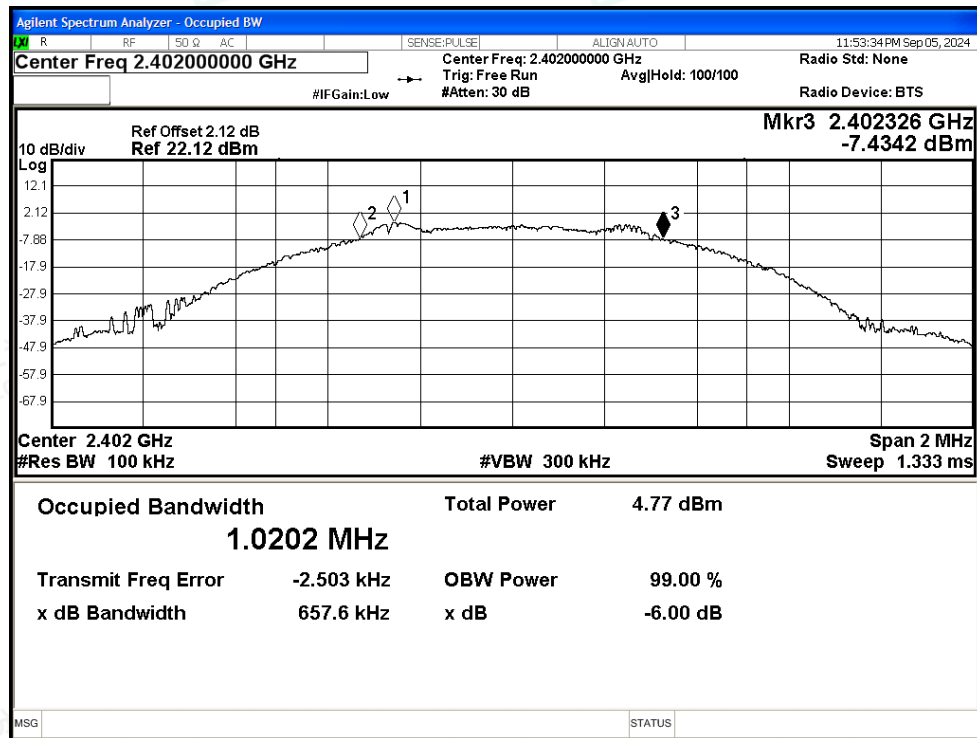


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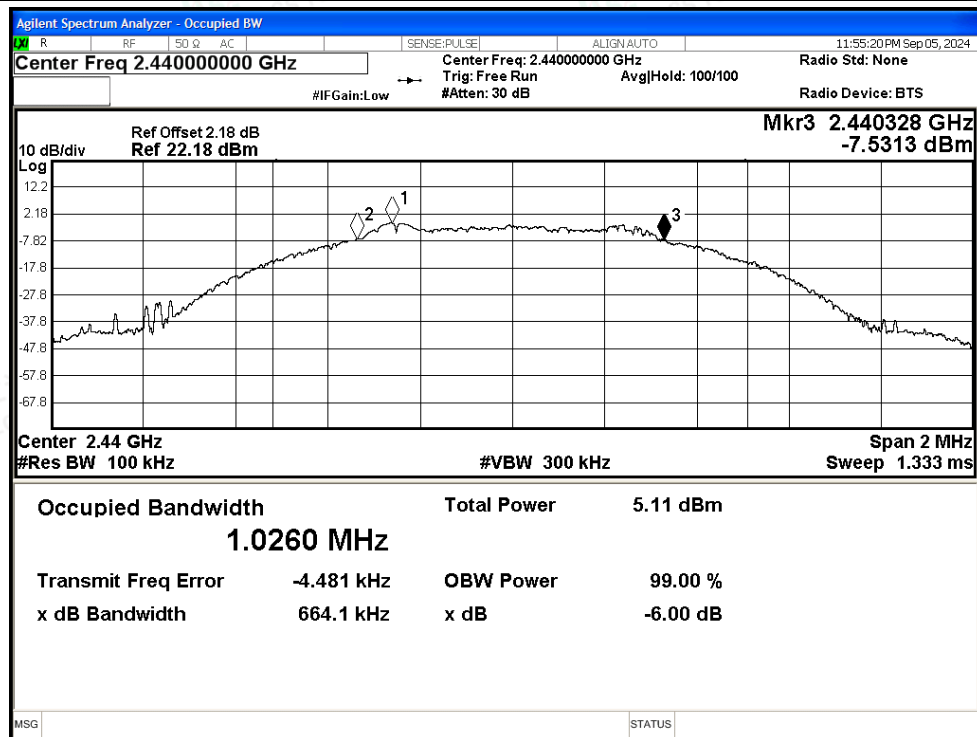


Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1

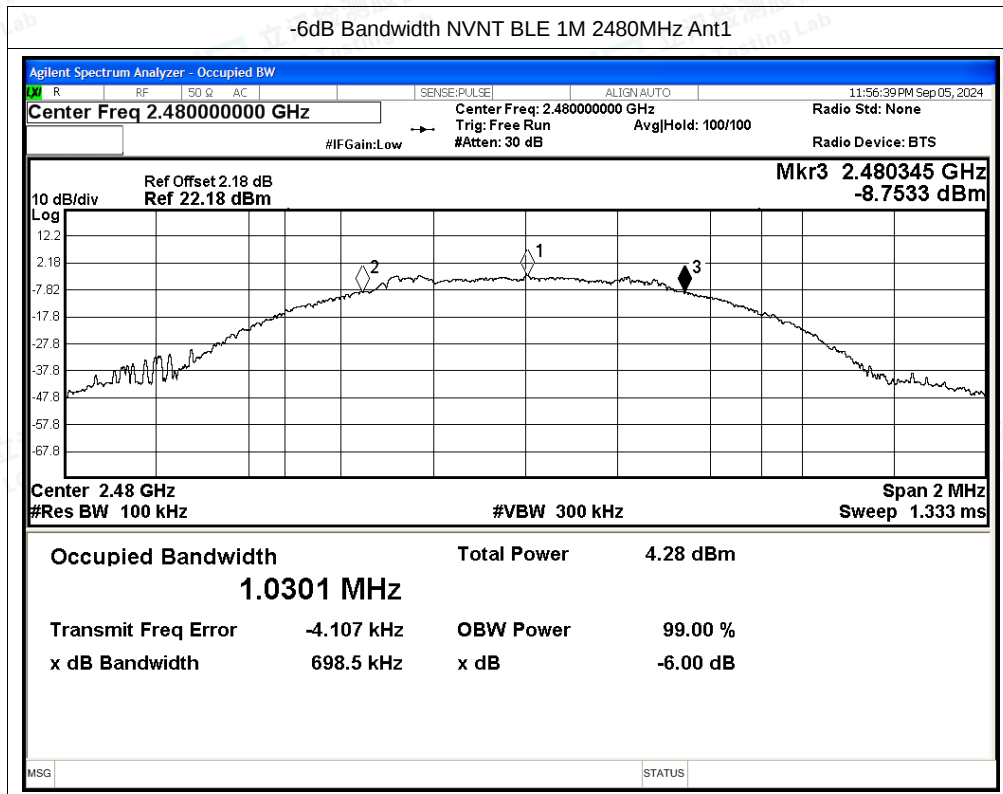


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B.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-0.86	30	Pass
NVNT	BLE 1M	2440	Ant1	-0.56	30	Pass
NVNT	BLE 1M	2480	Ant1	-0.15	30	Pass

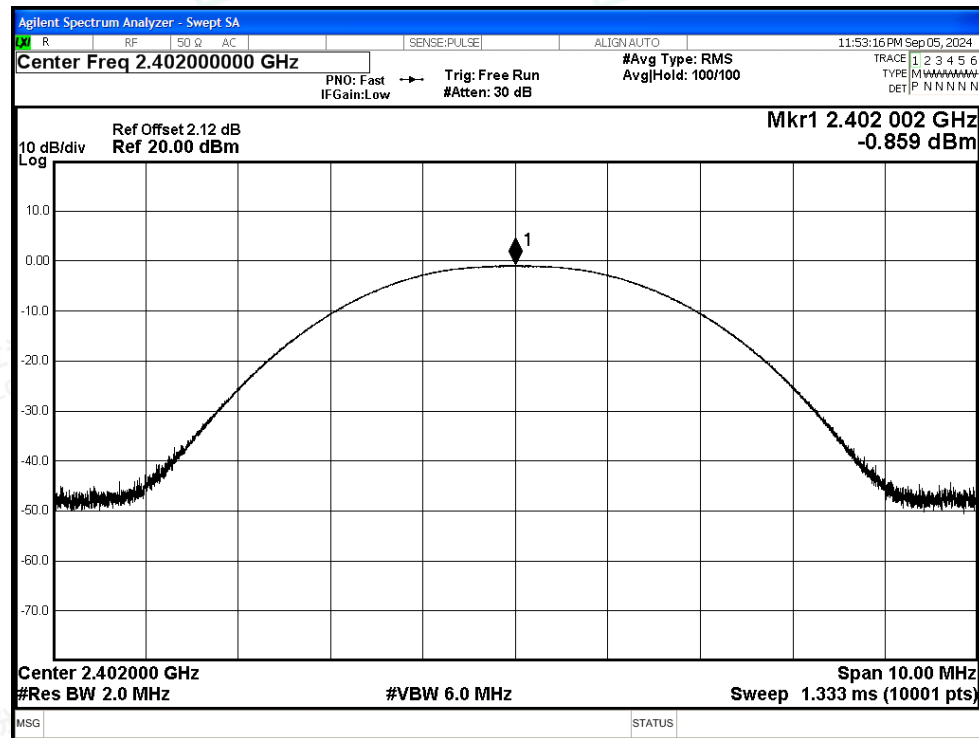


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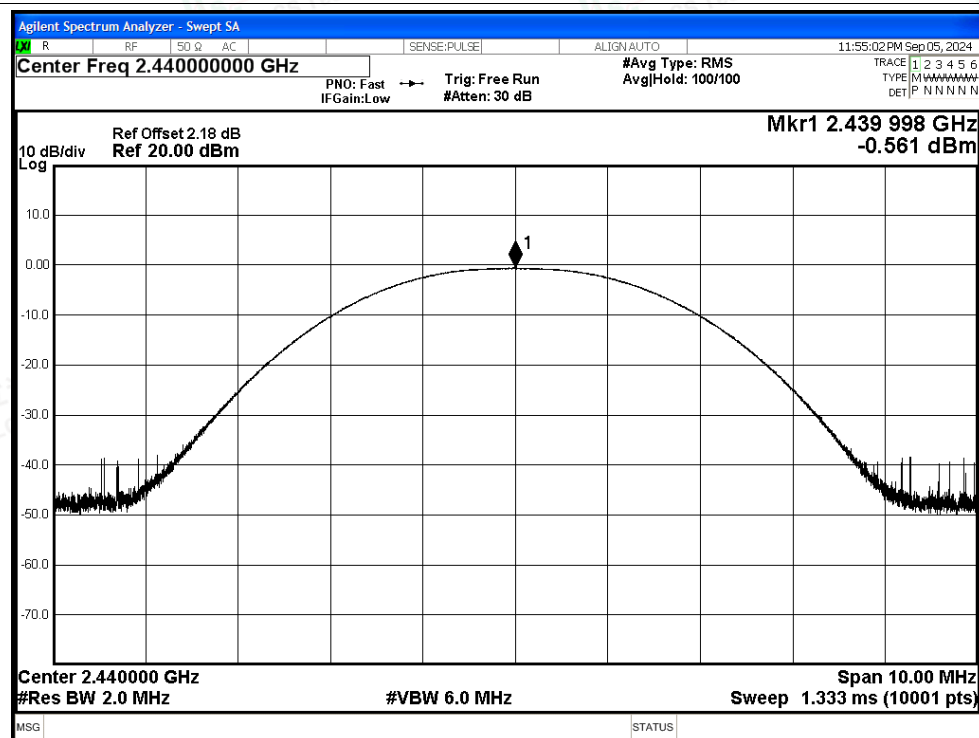


Test Graphs

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1

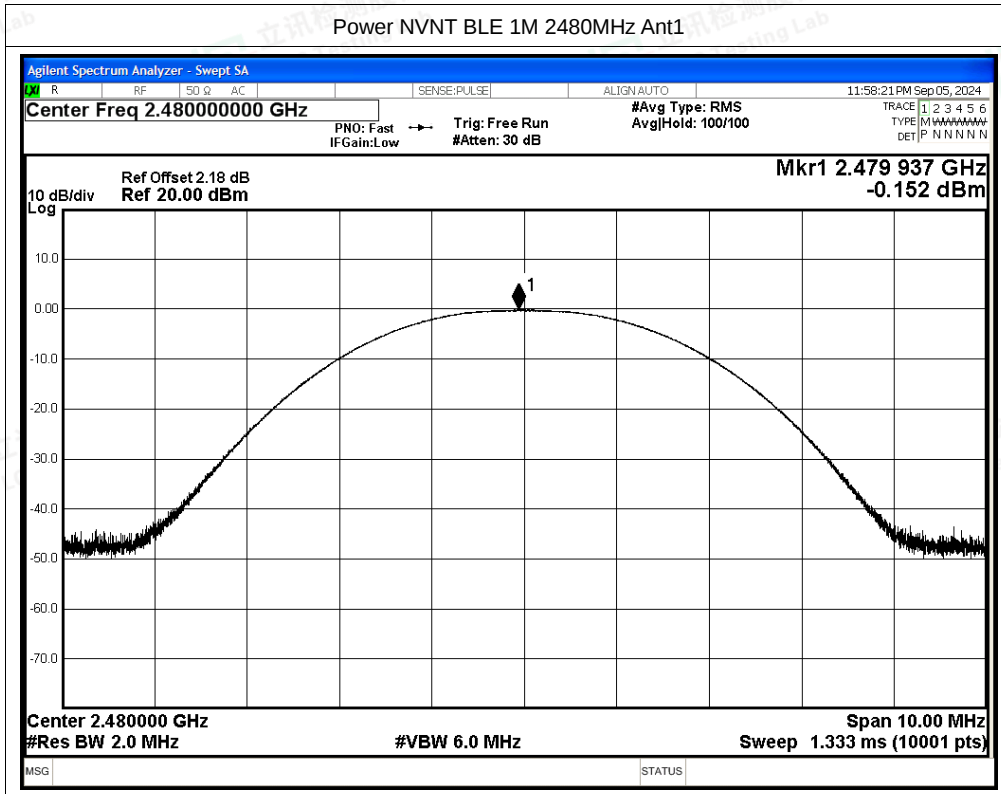


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B.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-17.88	8	Pass
NVNT	BLE 1M	2440	Ant1	-17.3	8	Pass
NVNT	BLE 1M	2480	Ant1	-18.11	8	Pass

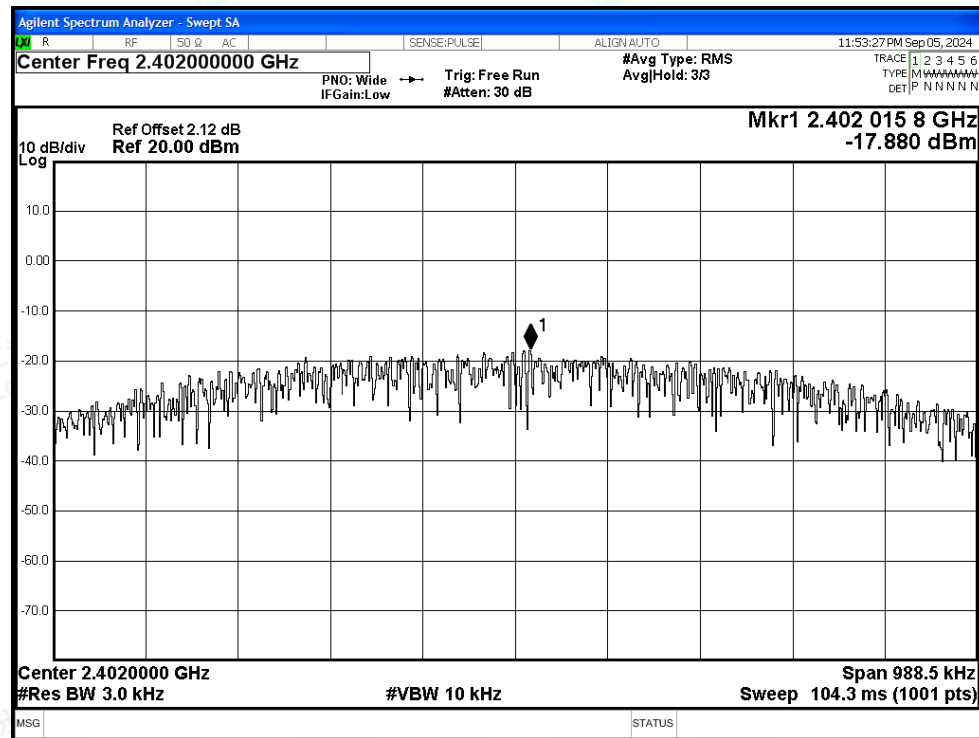


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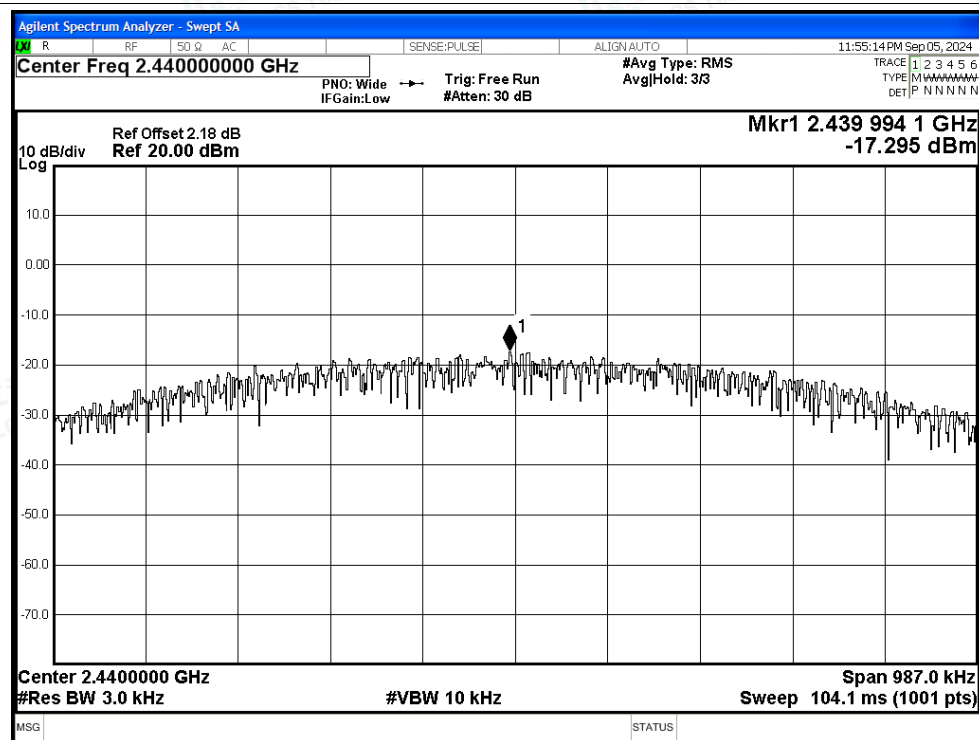


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1

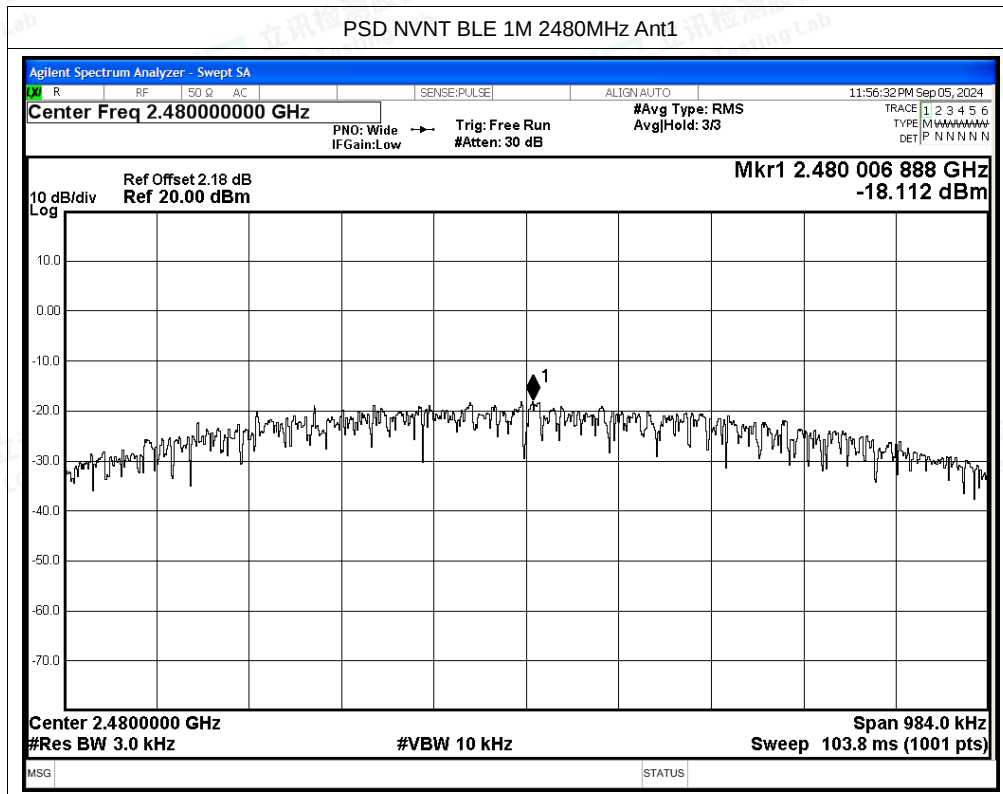


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B.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-54.04	-20	Pass
NVNT	BLE 1M	2480	Ant1	-54.97	-20	Pass

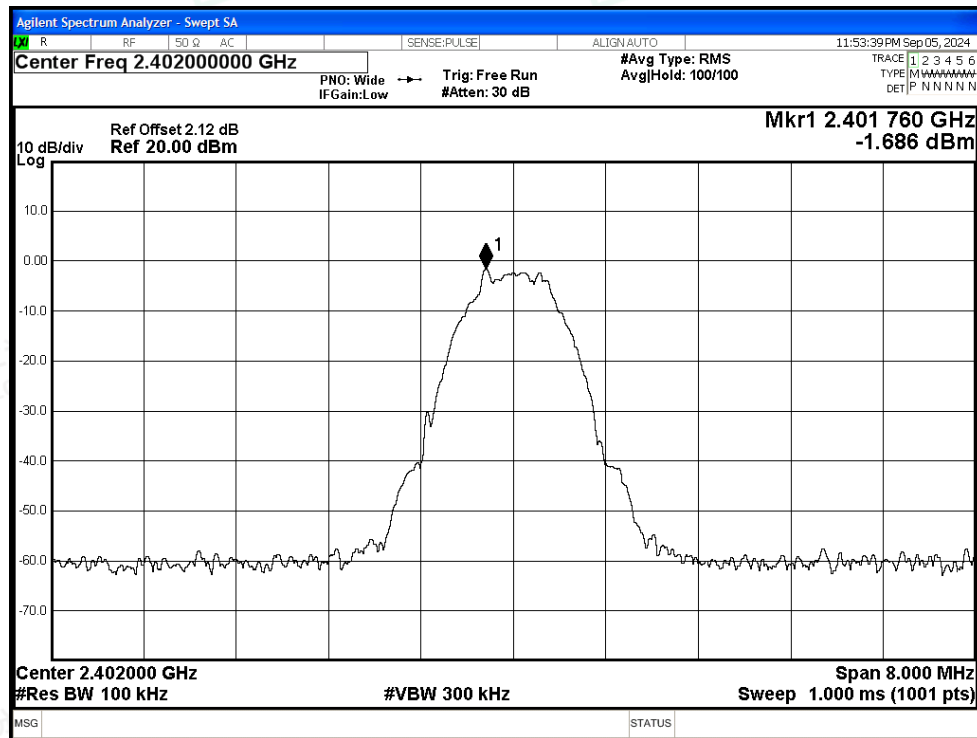


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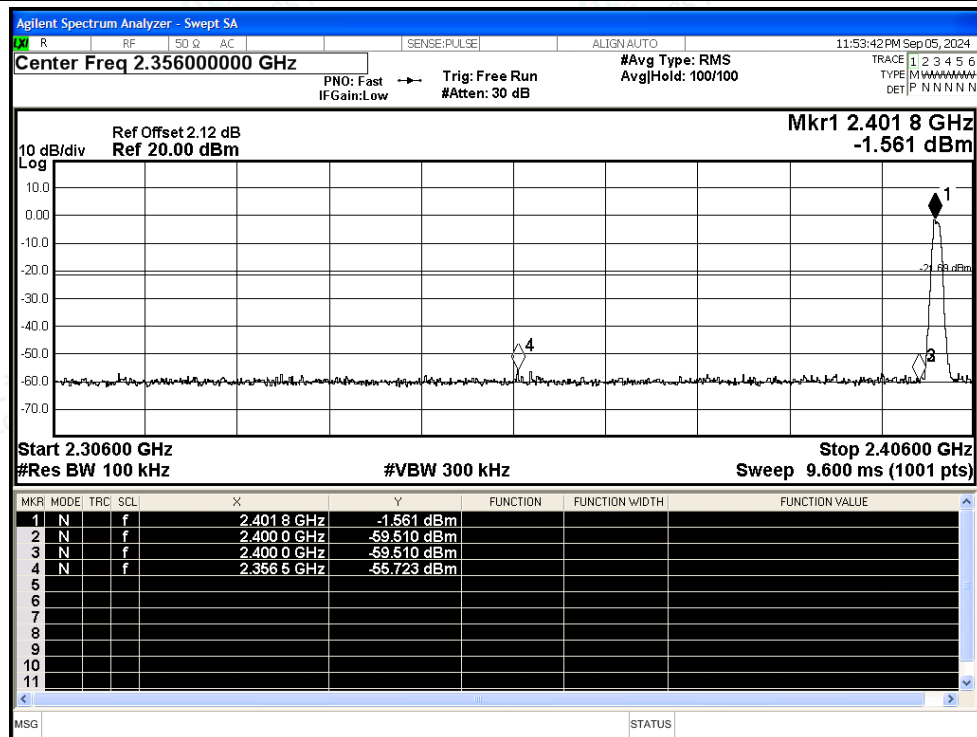


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



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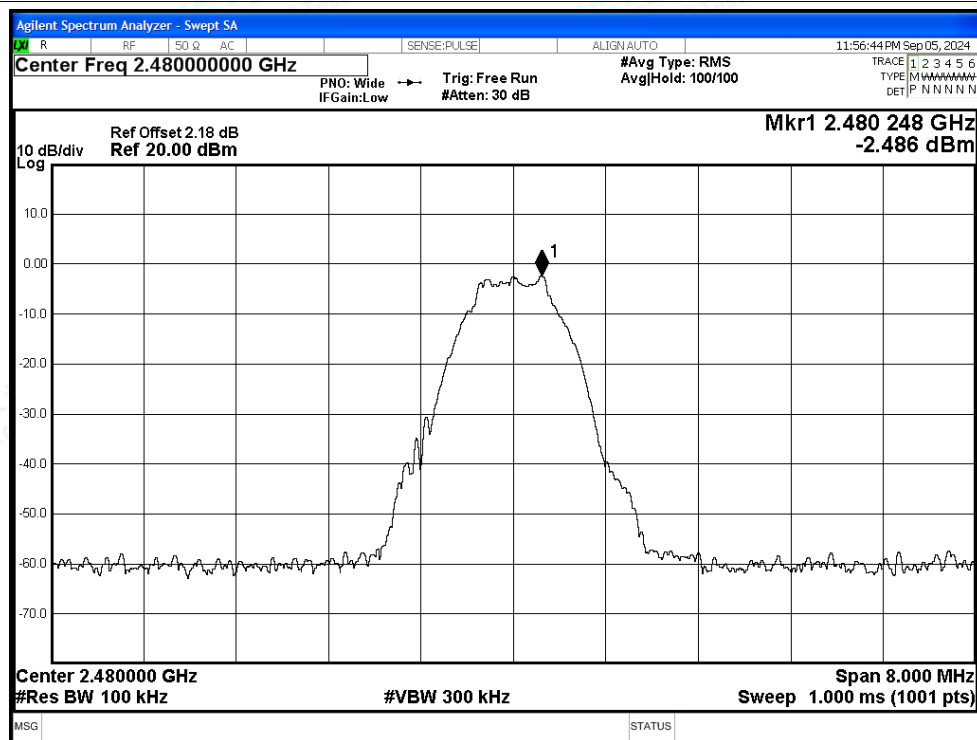
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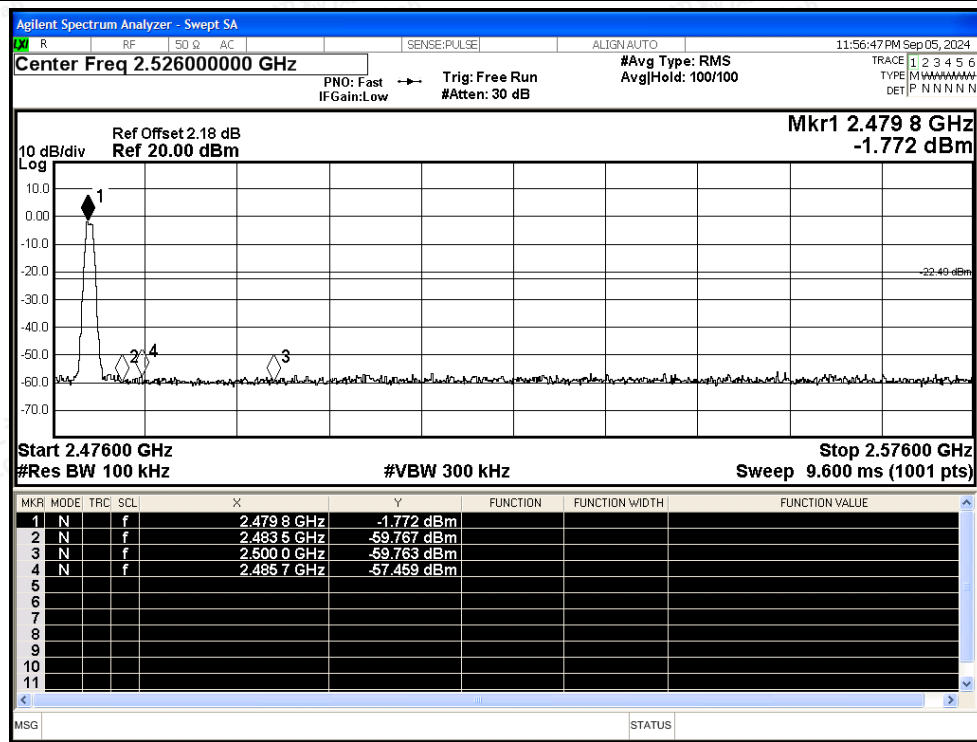
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Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



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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	-53.73	-20	Pass
NVNT	BLE 1M	2440	Ant1	-54.44	-20	Pass
NVNT	BLE 1M	2480	Ant1	-52.86	-20	Pass

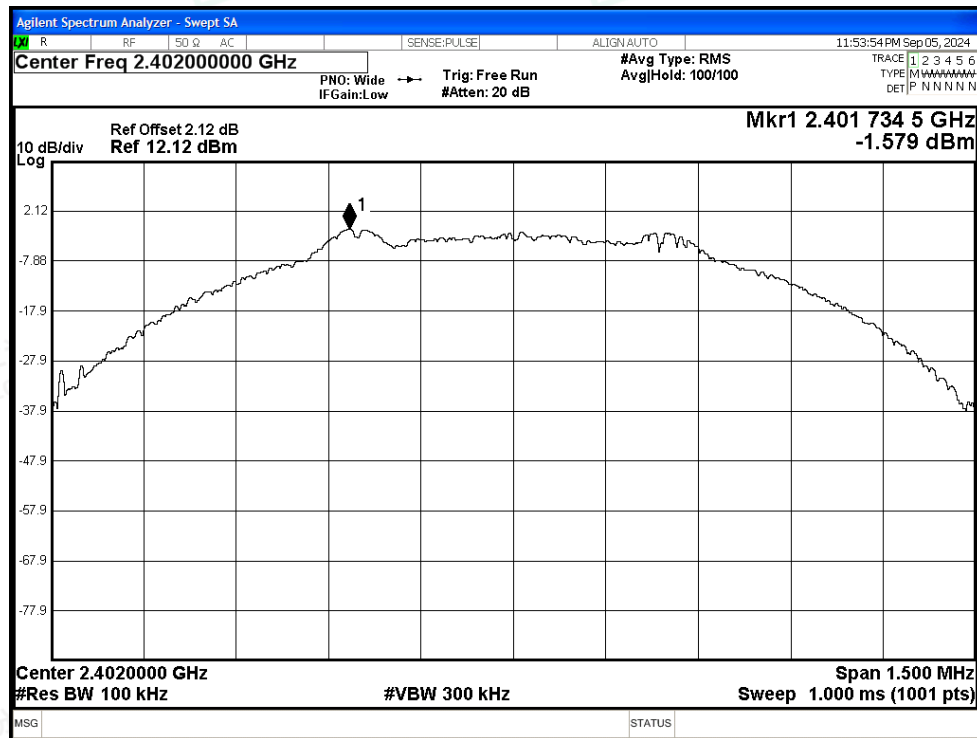


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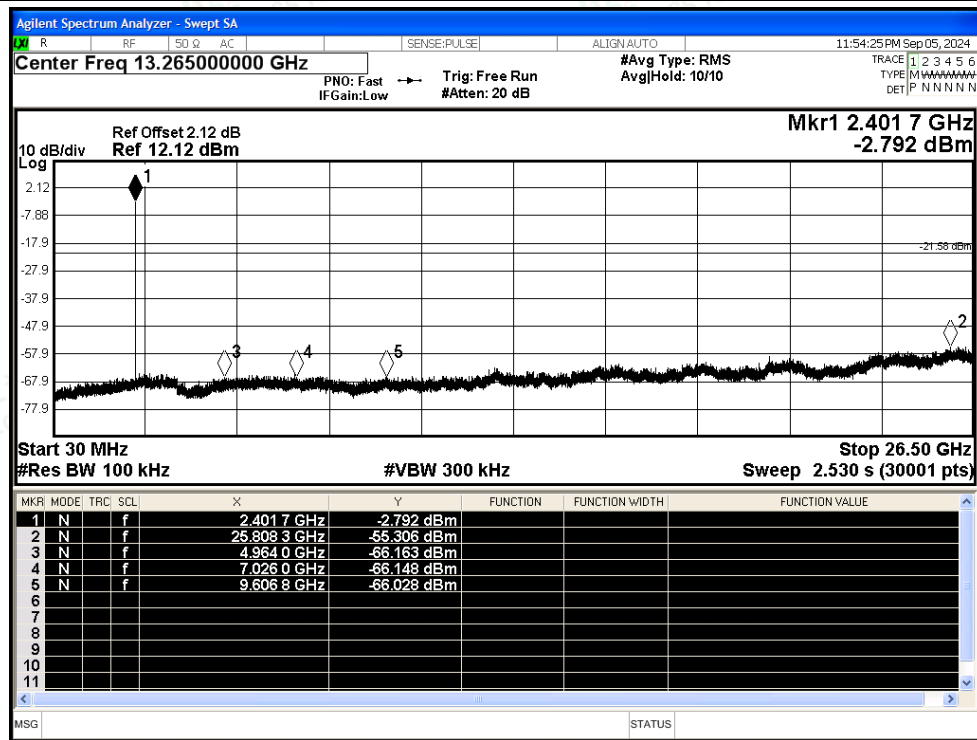


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

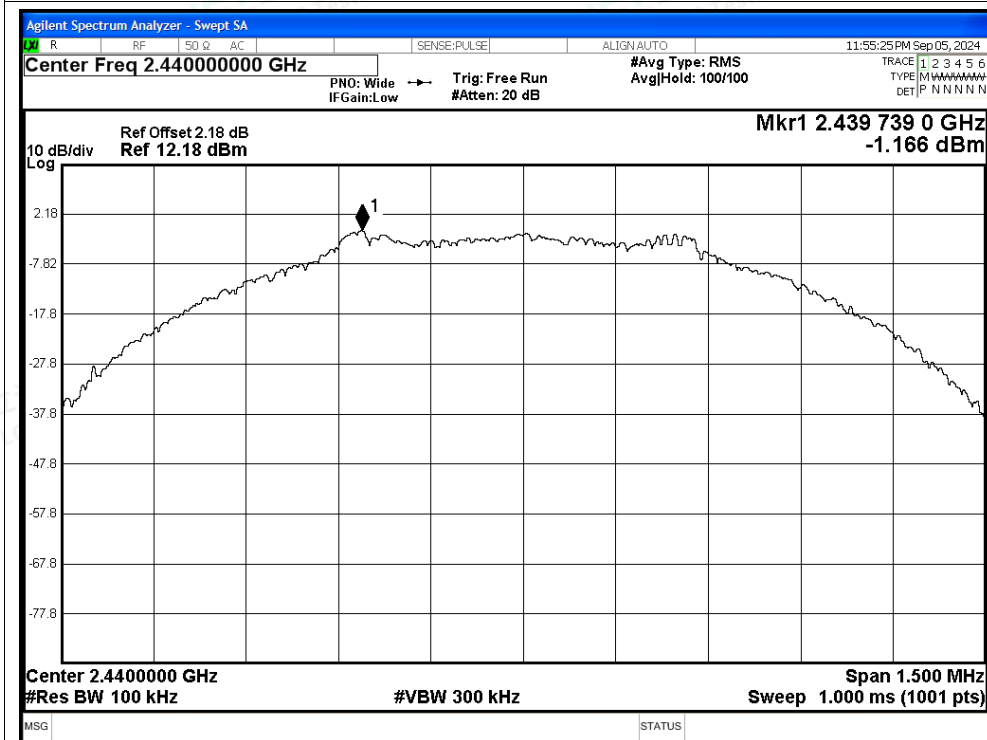
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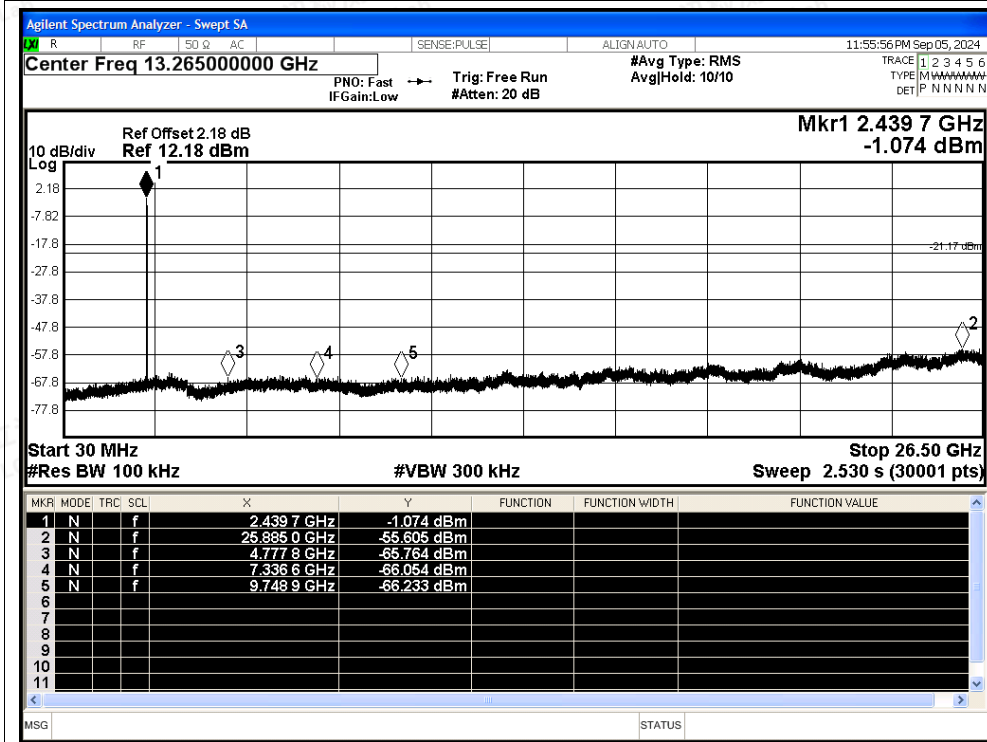
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Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



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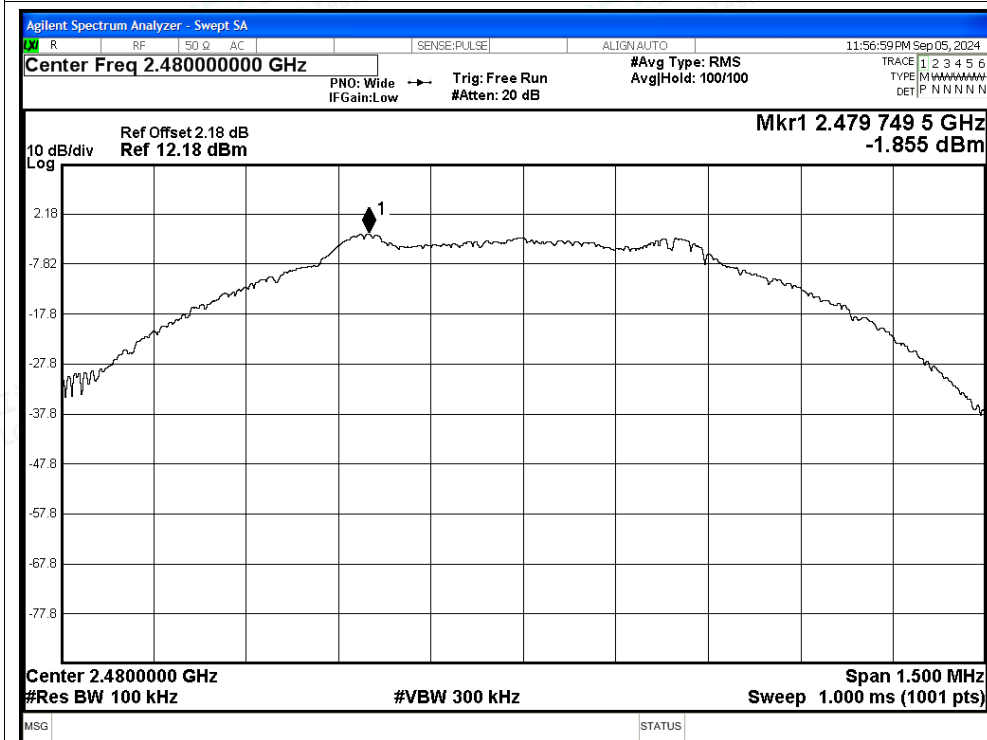
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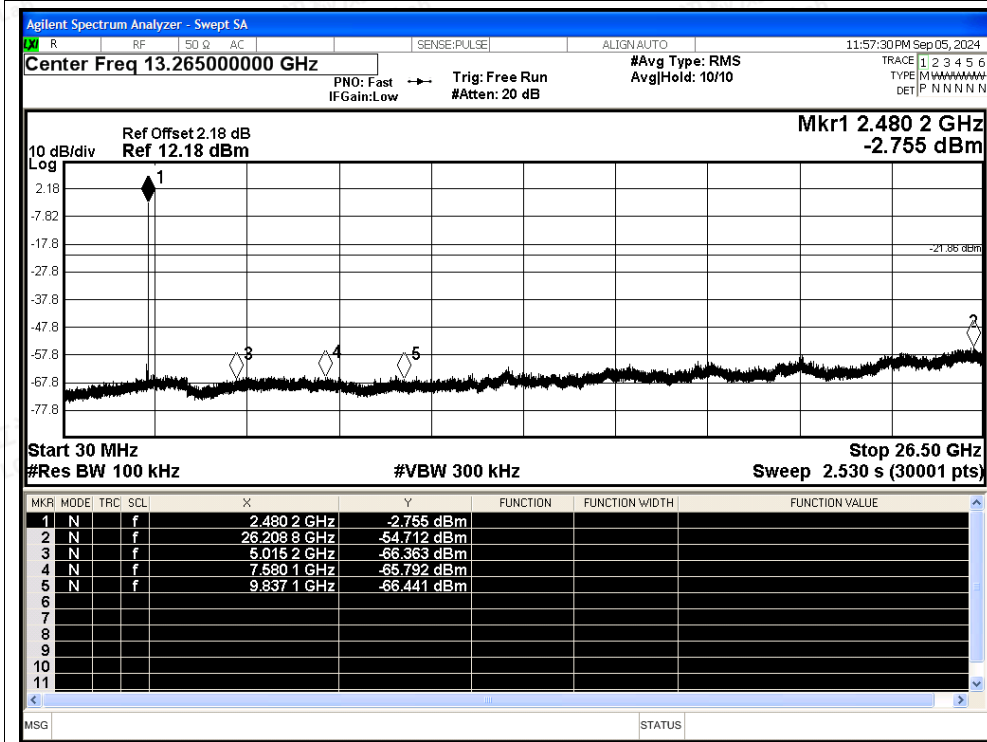
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Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



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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

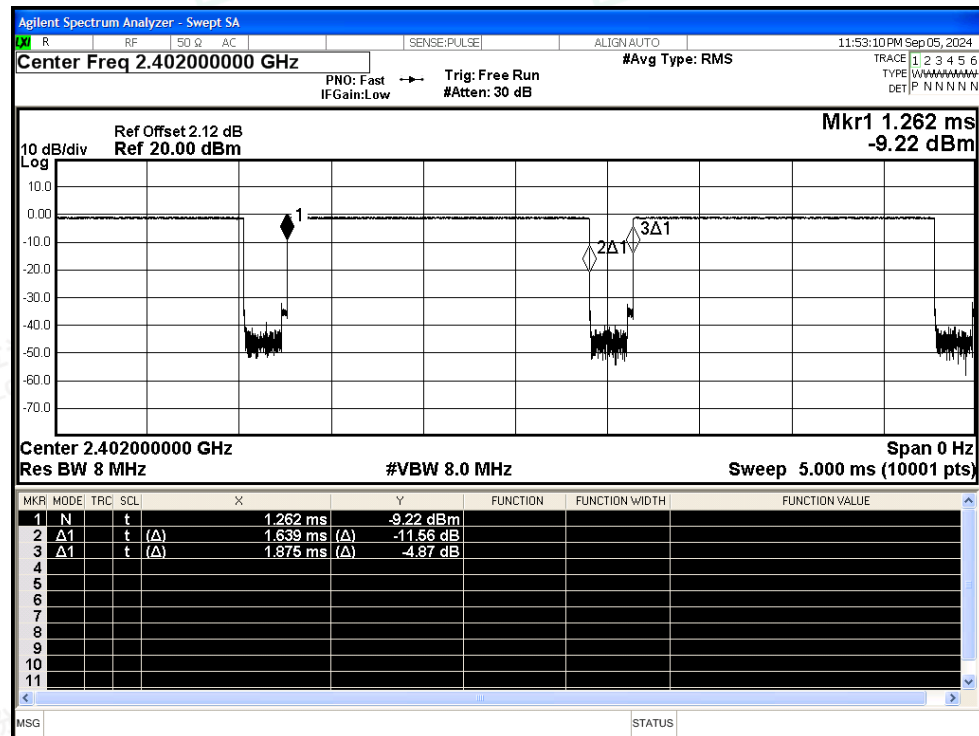


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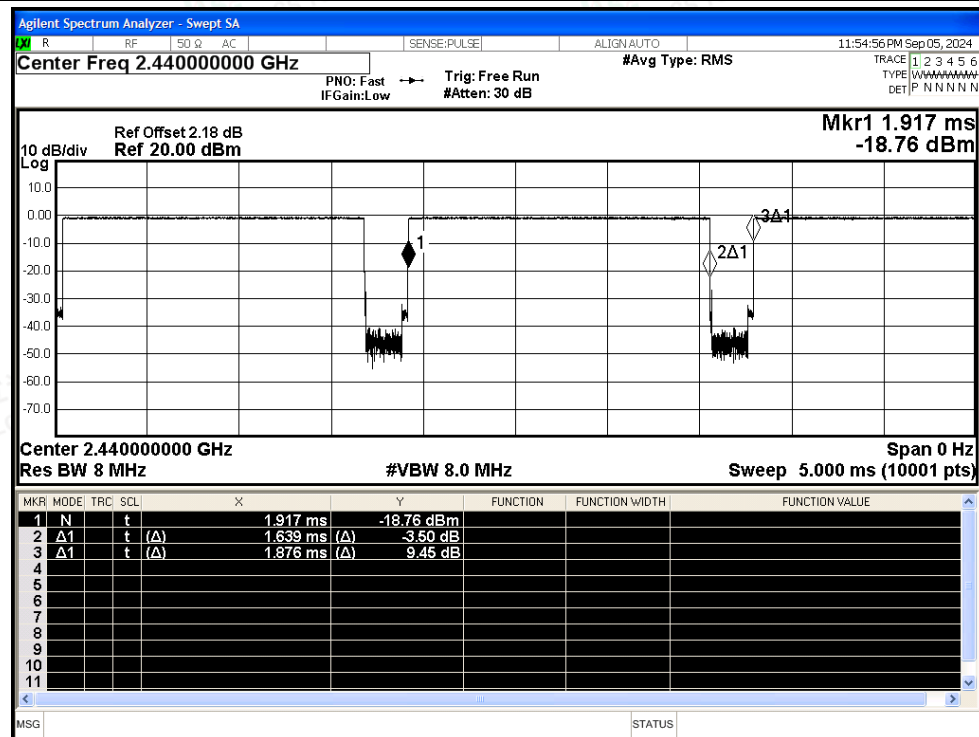


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1



Duty Cycle NVNT BLE 1M 2440MHz Ant1

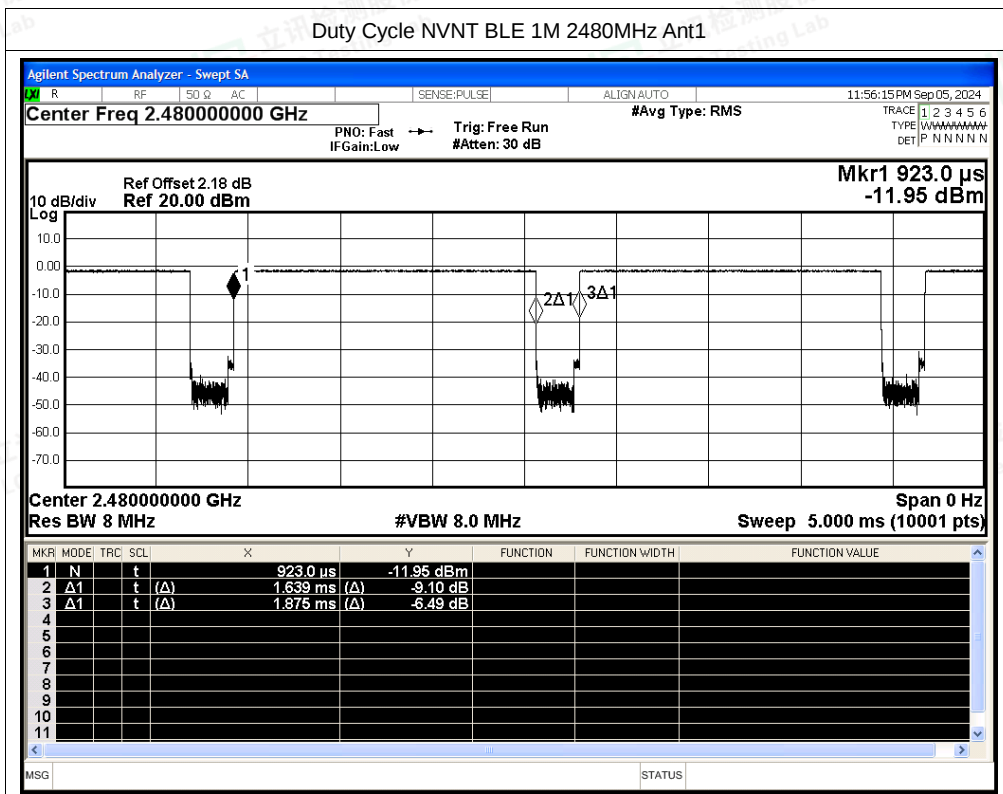


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B.7 Restrict Band

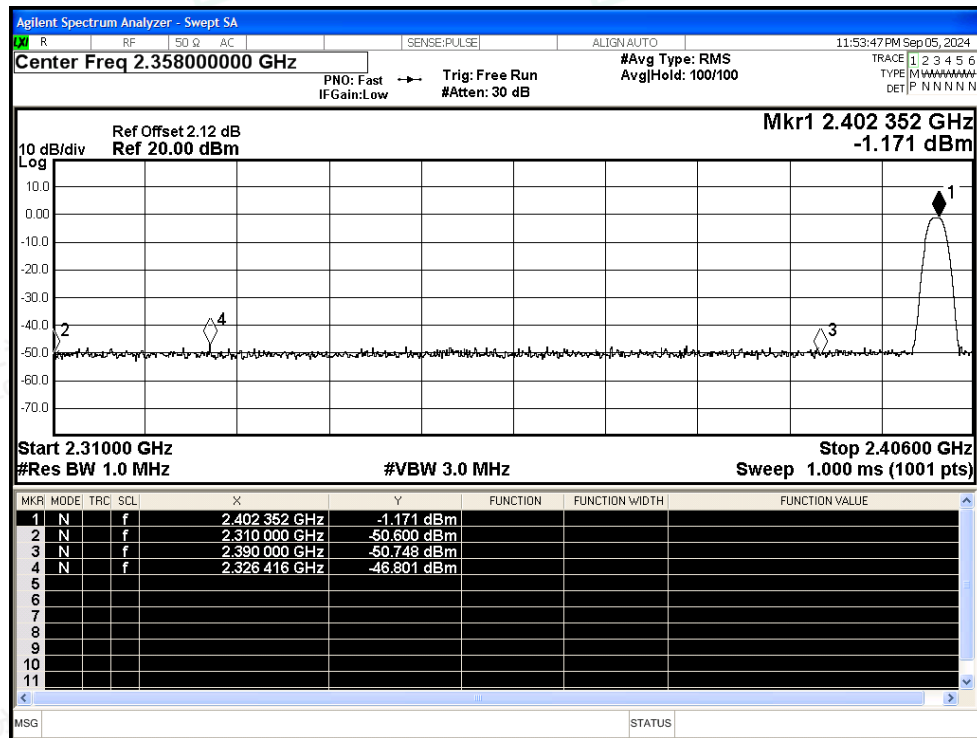
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1M	2402	Ant1	2310	-50.6	2.0	-	46.66	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-58.31	2.0	0.59	39.54	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2326.416	-46.8	2.0	-	50.46	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2376.336	-57.52	2.0	0.59	40.33	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-50.75	2.0	-	46.51	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-58.54	2.0	0.59	39.31	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-50.06	2.0	-	47.2	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-57.72	2.0	0.59	40.13	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2489.08	-46.43	2.0	-	50.83	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2489.296	-57.08	2.0	0.59	40.77	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-49.83	2.0	-	47.43	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-58.35	2.0	0.59	39.5	Average	54	Pass



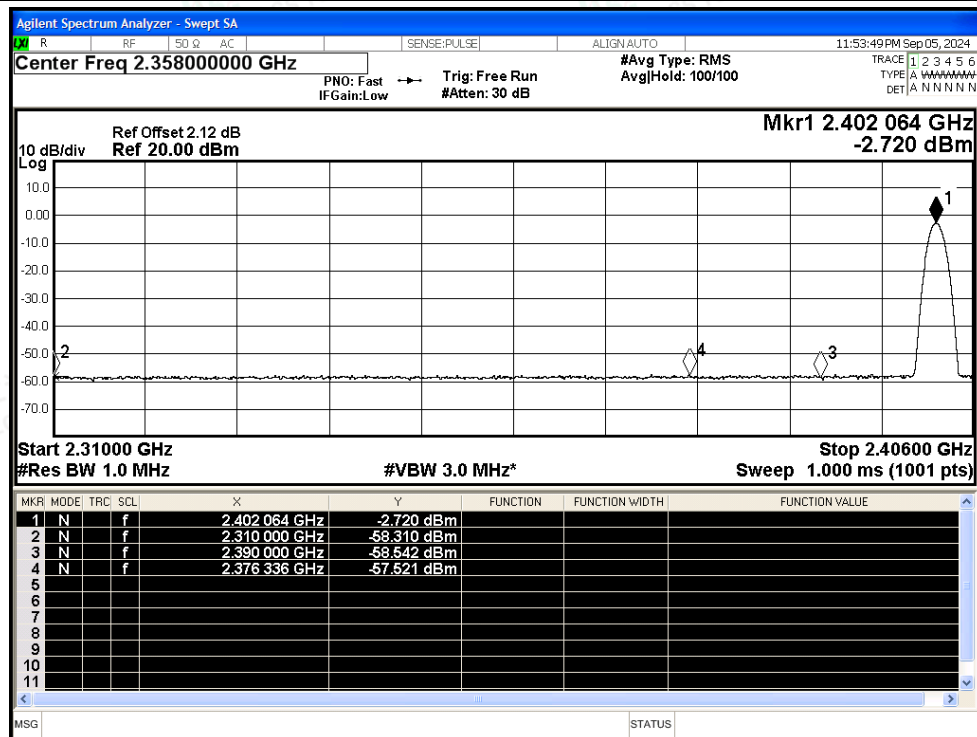


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant1 Average



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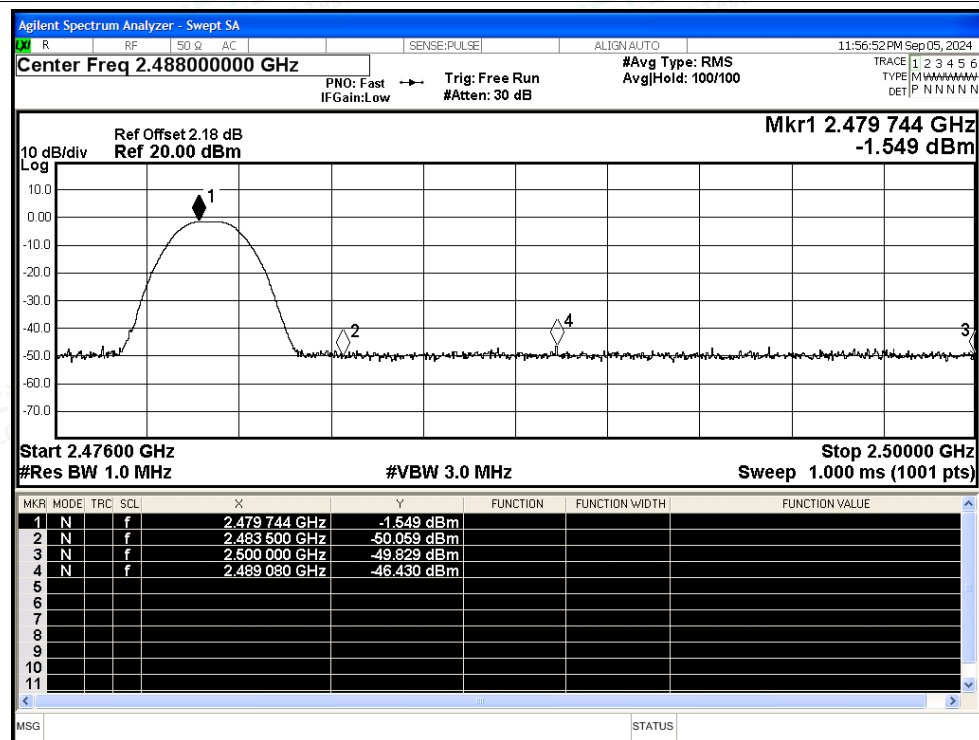
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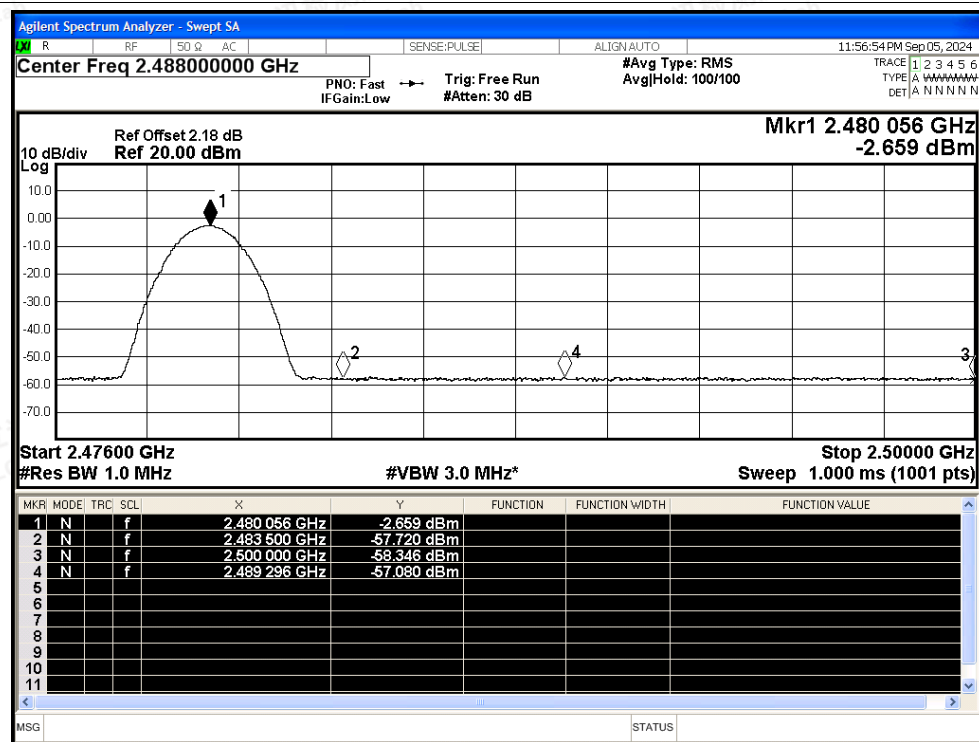
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Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2480MHz Ant1 Average



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