

Appendix Test Data

Report No.:	1812C50578212501-01	Test Sample No.:	1-2-2
Start Test Date:	2025-11-3	Finish Test Date:	2025-11-11
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	23.1°C	Relative Humidity:	36%
Pressure:	101kPa		



Appendix A: 6dB Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.660	2401.696	2402.356	0.5	PASS
BLE_1M	Ant1	2440	0.636	2439.716	2440.352	0.5	PASS
BLE_1M	Ant1	2480	0.644	2479.724	2480.368	0.5	PASS
BLE_2M	Ant1	2402	1.084	2401.528	2402.612	0.5	PASS
BLE_2M	Ant1	2440	1.108	2439.512	2440.620	0.5	PASS
BLE_2M	Ant1	2480	1.064	2479.524	2480.588	0.5	PASS

Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS

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BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS

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Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0049	2401.5362	2402.5411	---	---
BLE_1M	Ant1	2440	1.0247	2439.5331	2440.5578	---	---
BLE_1M	Ant1	2480	1.0205	2479.5327	2480.5532	---	---
BLE_2M	Ant1	2402	2.0004	2401.0525	2403.0529	---	---
BLE_2M	Ant1	2440	2.0438	2439.0524	2441.0962	---	---
BLE_2M	Ant1	2480	2.0128	2479.0767	2481.0895	---	---

Test Graphs



BLE_1M-Ant1-2402

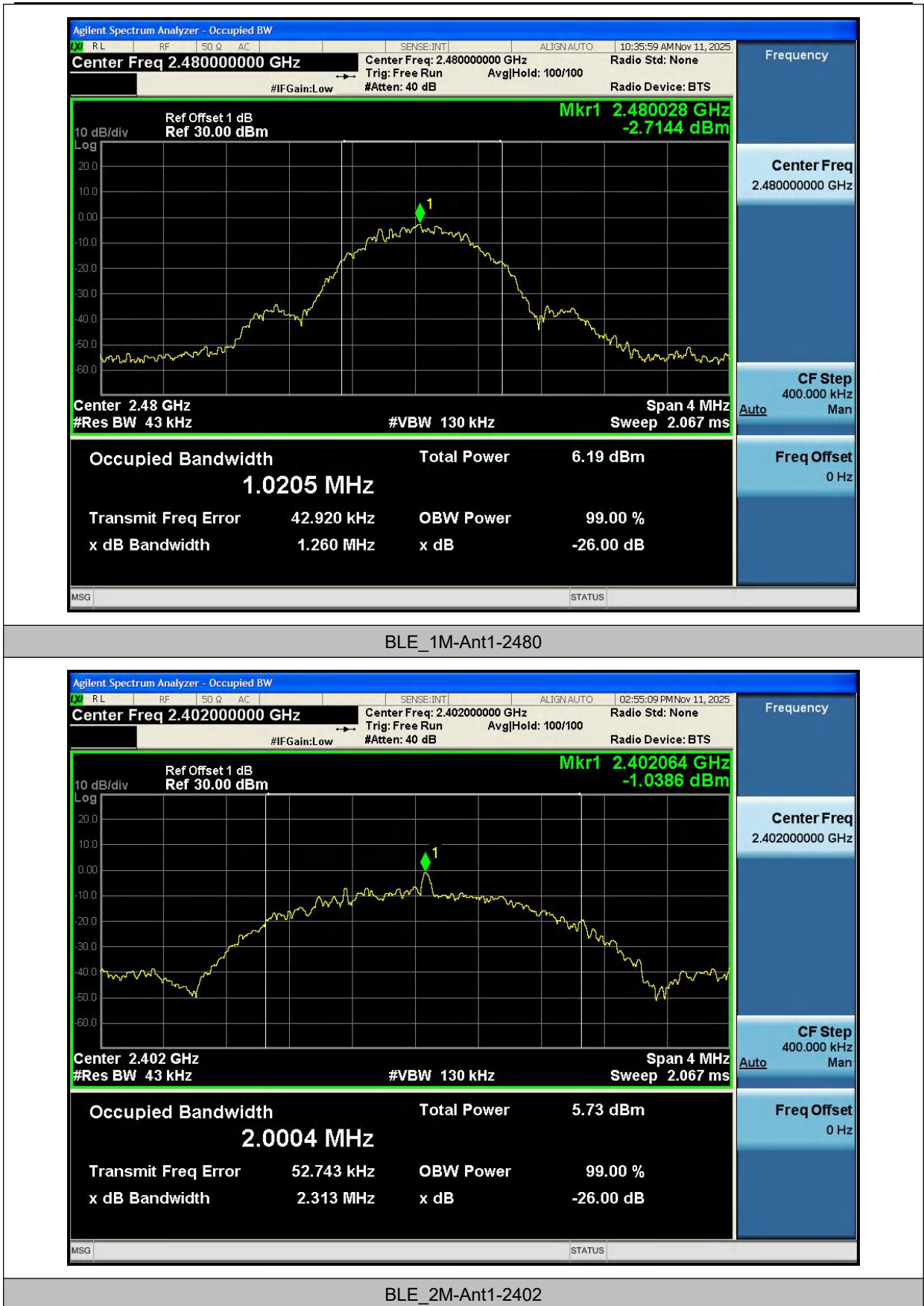


BLE_1M-Ant1-2440

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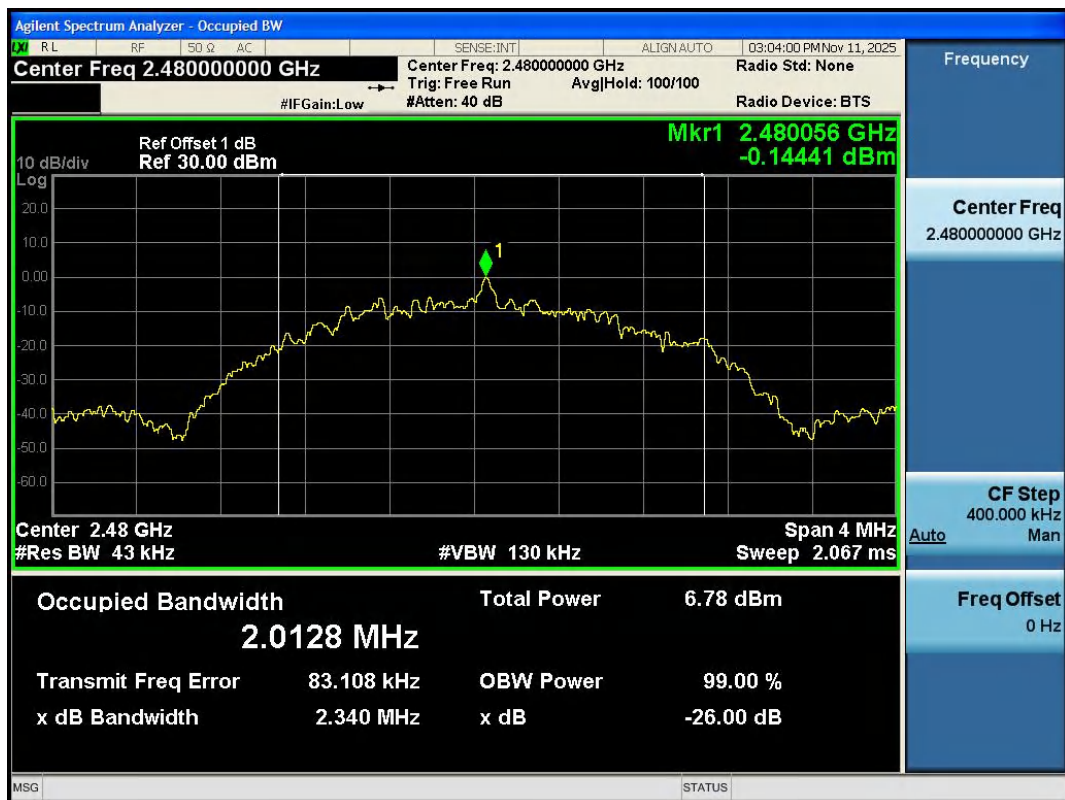
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BLE_2M-Ant1-2440



BLE_2M-Ant1-2480

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Appendix C: Maximum conducted output power

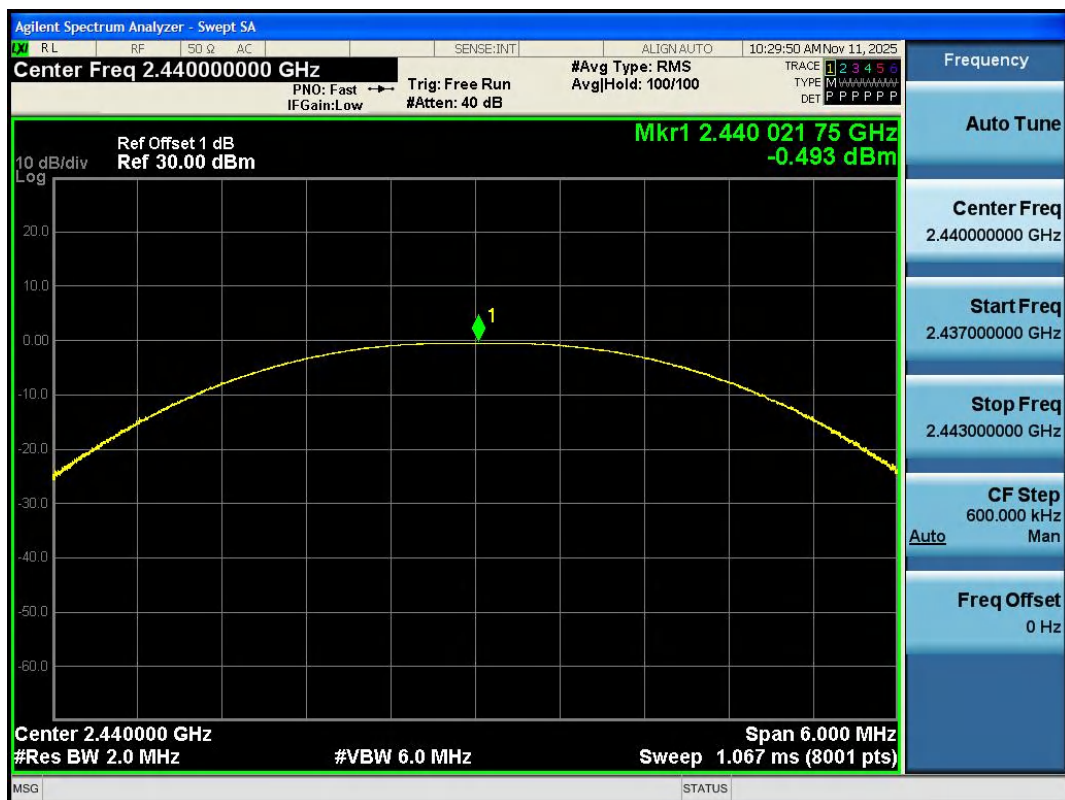
Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.91	≤30	PASS
BLE_1M	Ant1	2440	-0.49	≤30	PASS
BLE_1M	Ant1	2480	-0.10	≤30	PASS
BLE_2M	Ant1	2402	-0.48	≤30	PASS
BLE_2M	Ant1	2440	-0.28	≤30	PASS
BLE_2M	Ant1	2480	0.37	≤30	PASS

Test Graphs Peak



BLE_1M-Ant1-2402-PASS

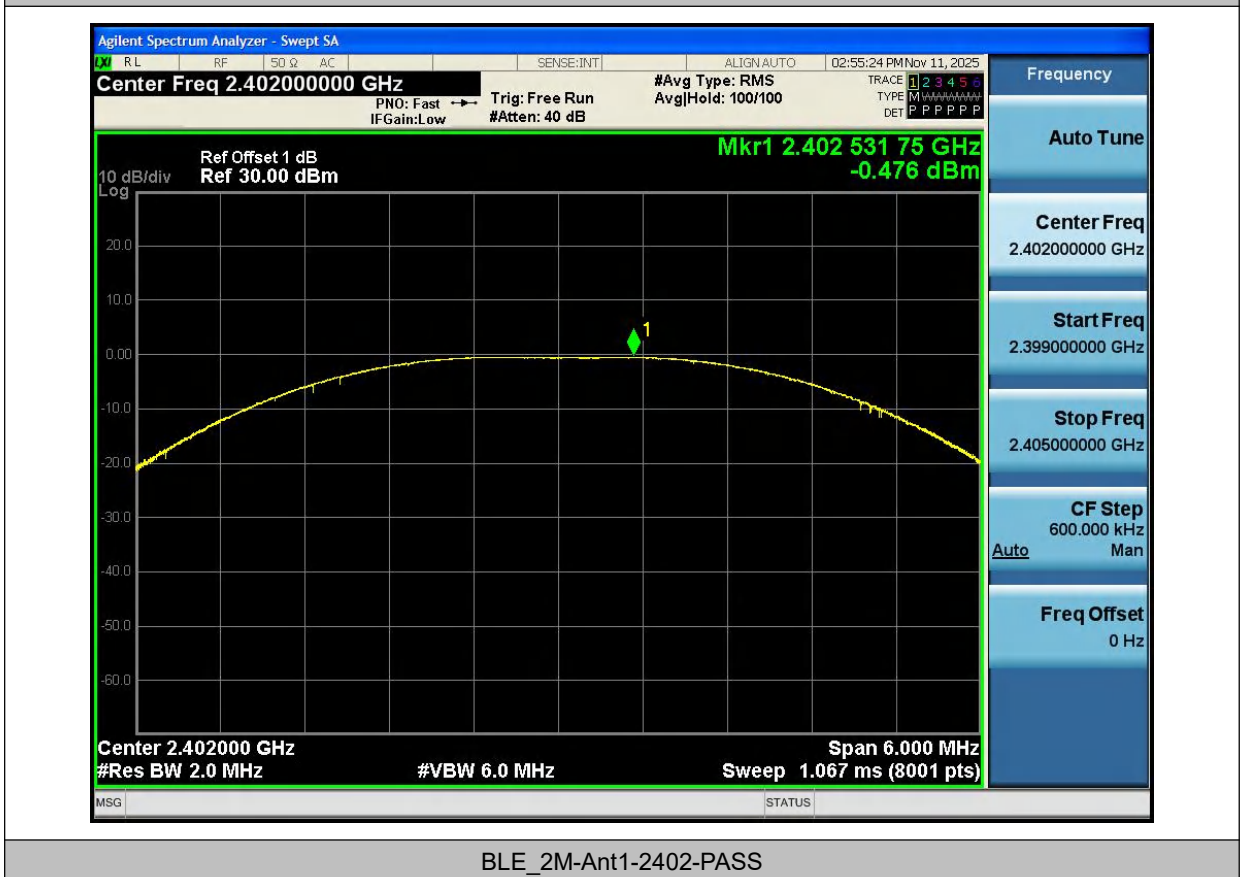
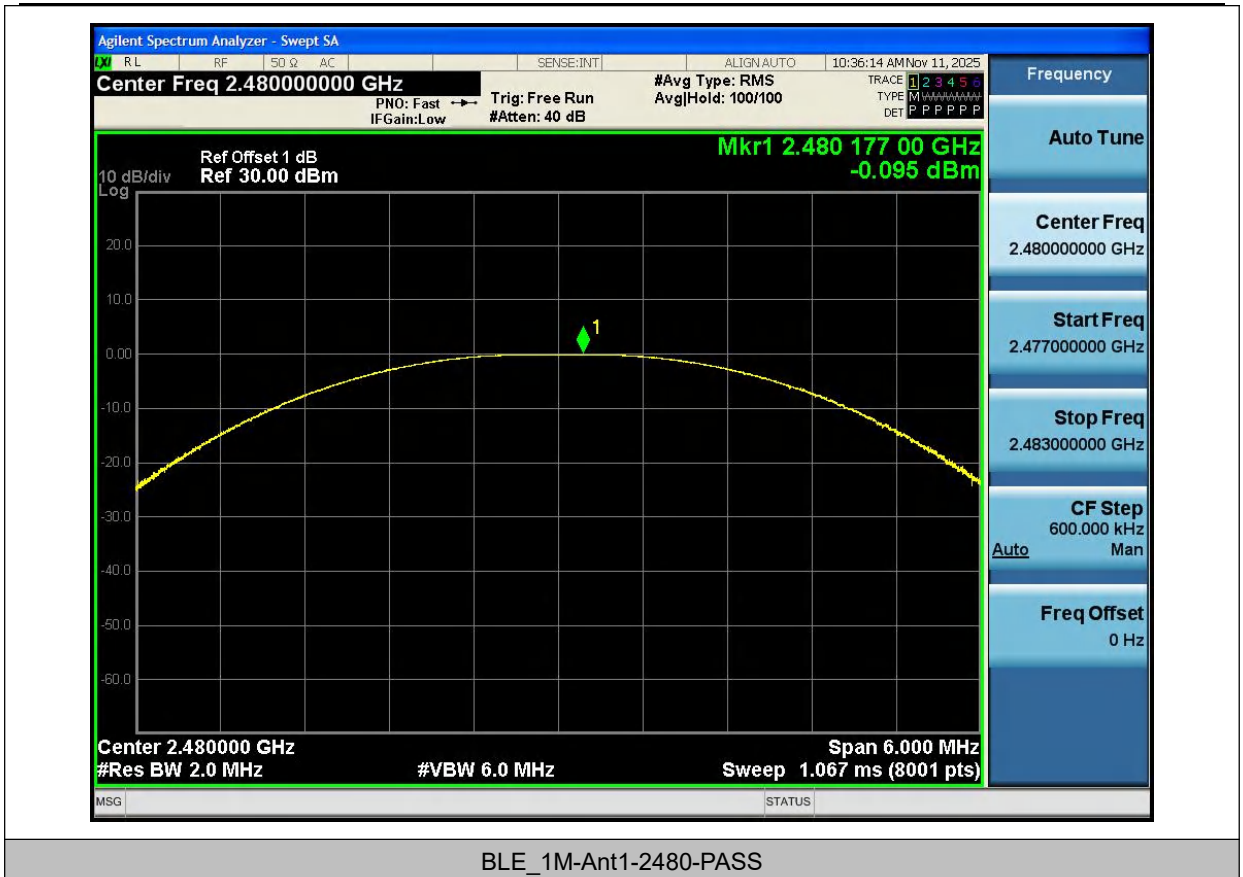


BLE_1M-Ant1-2440-PASS

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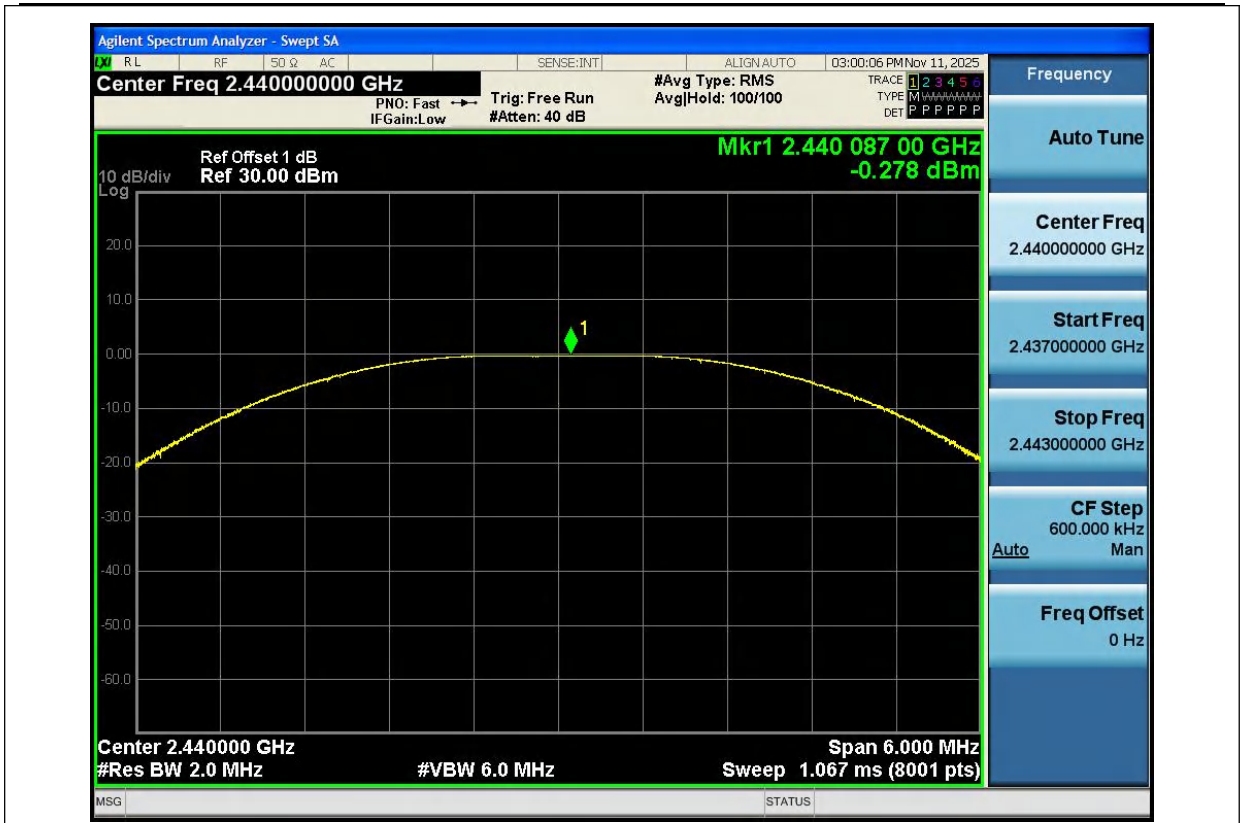
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BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS

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Appendix D: Maximum power spectral density

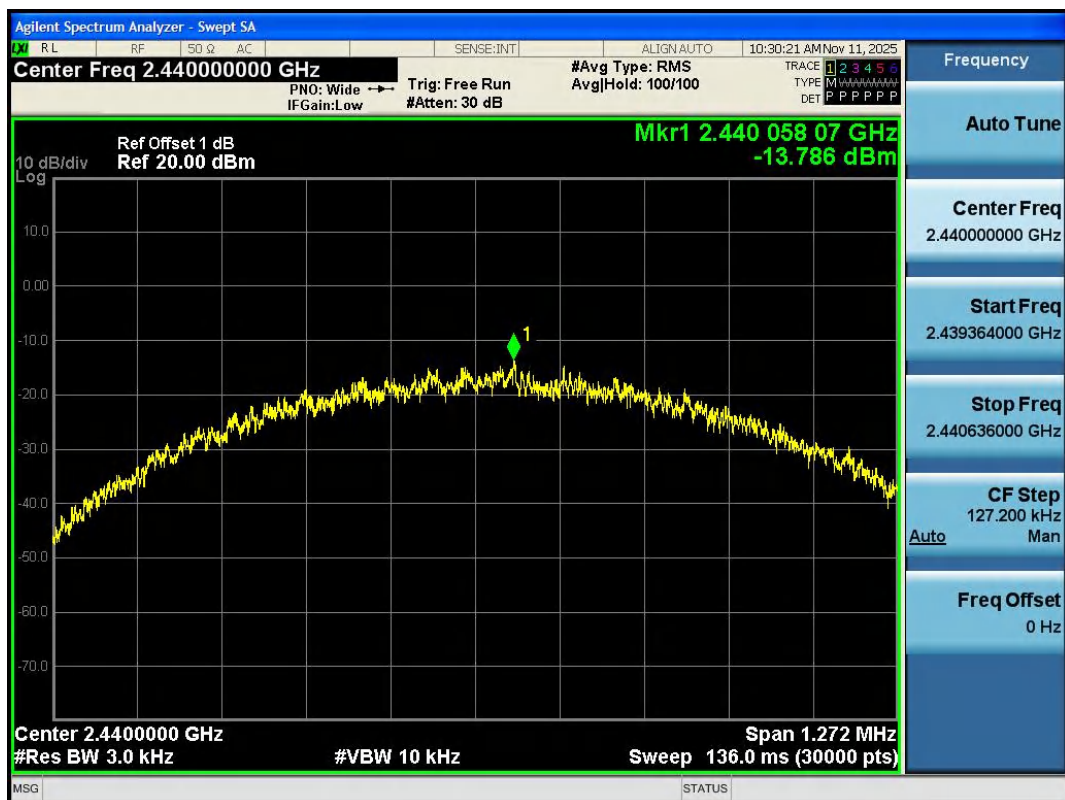
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.22	≤8.00	PASS
BLE_1M	Ant1	2440	-13.79	≤8.00	PASS
BLE_1M	Ant1	2480	-12.67	≤8.00	PASS
BLE_2M	Ant1	2402	-15.88	≤8.00	PASS
BLE_2M	Ant1	2440	-15.68	≤8.00	PASS
BLE_2M	Ant1	2480	-14.76	≤8.00	PASS

Test Graphs



BLE_1M-Ant1-2402-PASS

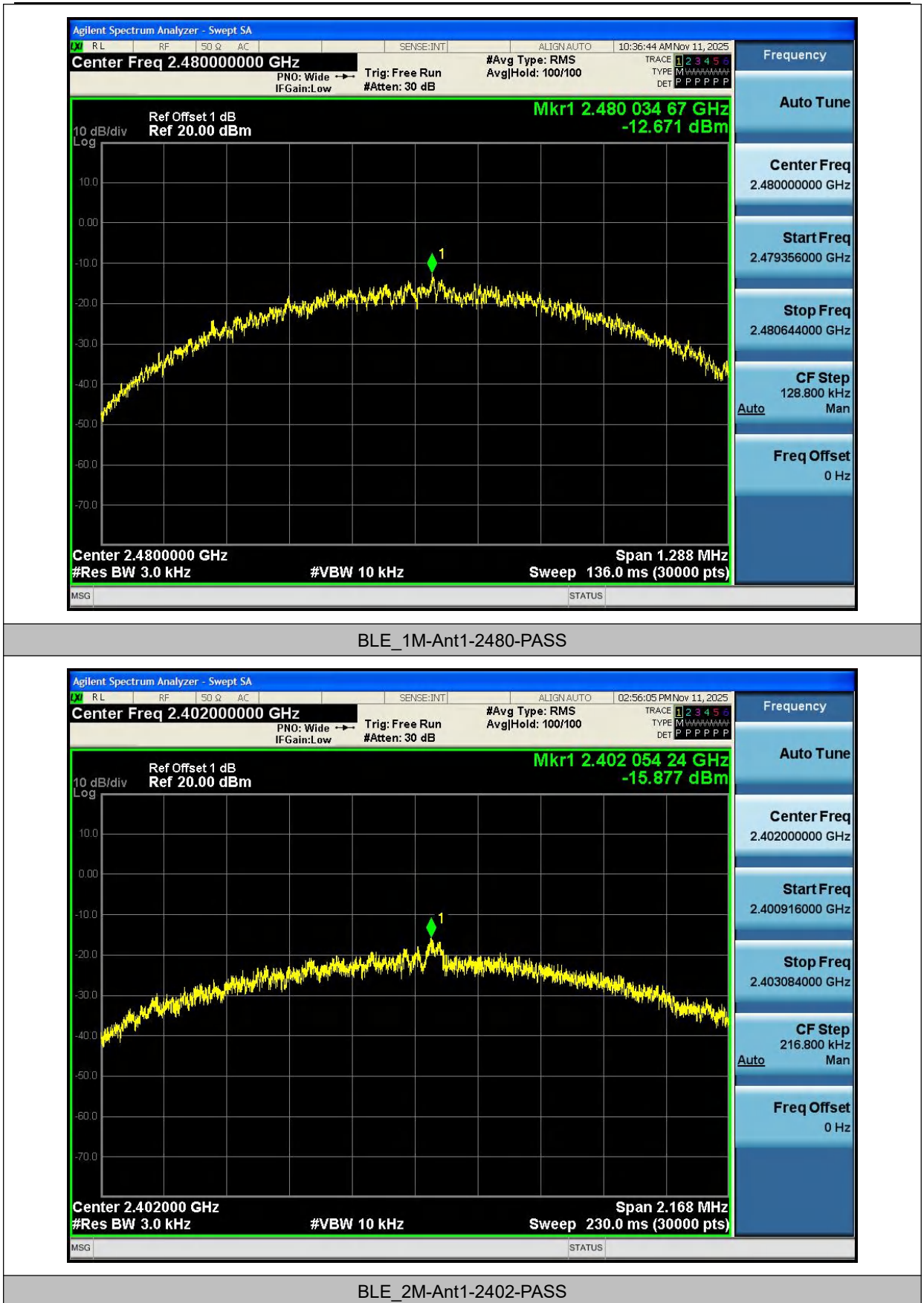


BLE_1M-Ant1-2440-PASS

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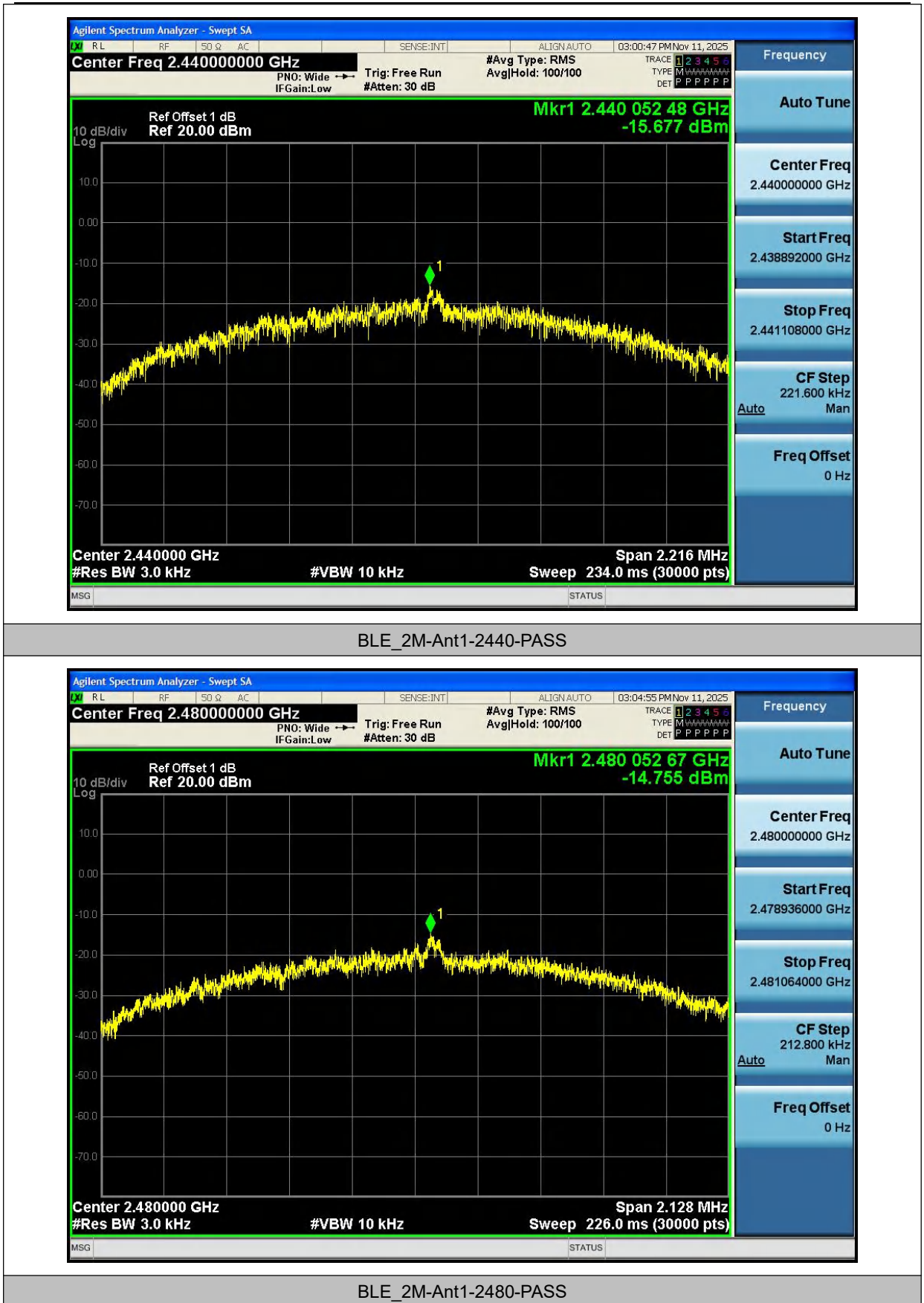
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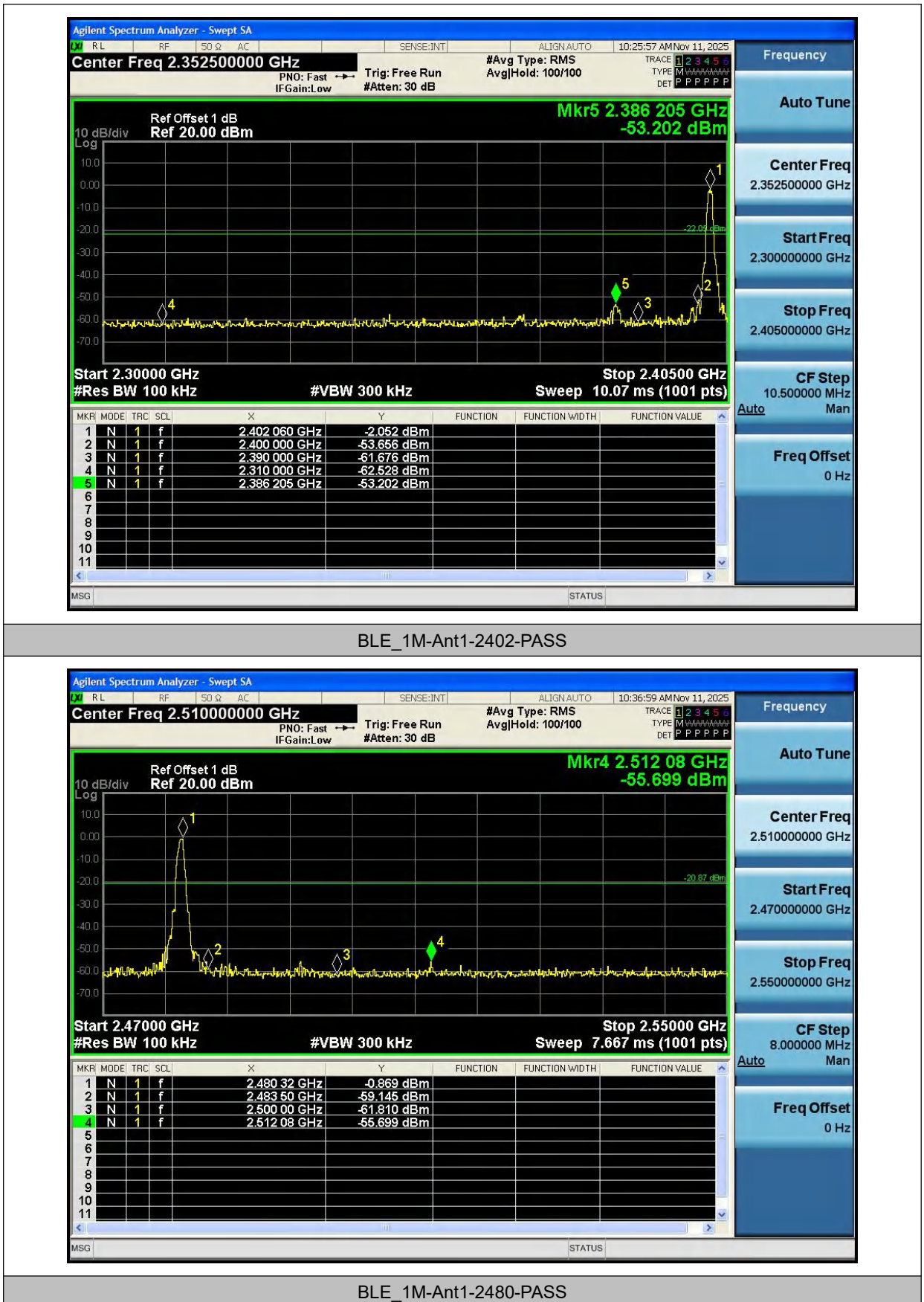
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-2.05	-53.2	≤-22.05	PASS
BLE_1M	Ant1	High	2480	-0.87	-55.7	≤-20.87	PASS
BLE_2M	Ant1	Low	2402	-0.77	-35.77	≤-20.77	PASS
BLE_2M	Ant1	High	2480	0.25	-54.8	≤-19.75	PASS

Remark:Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the 'offset' of the Spectrum Analyzer during the test.

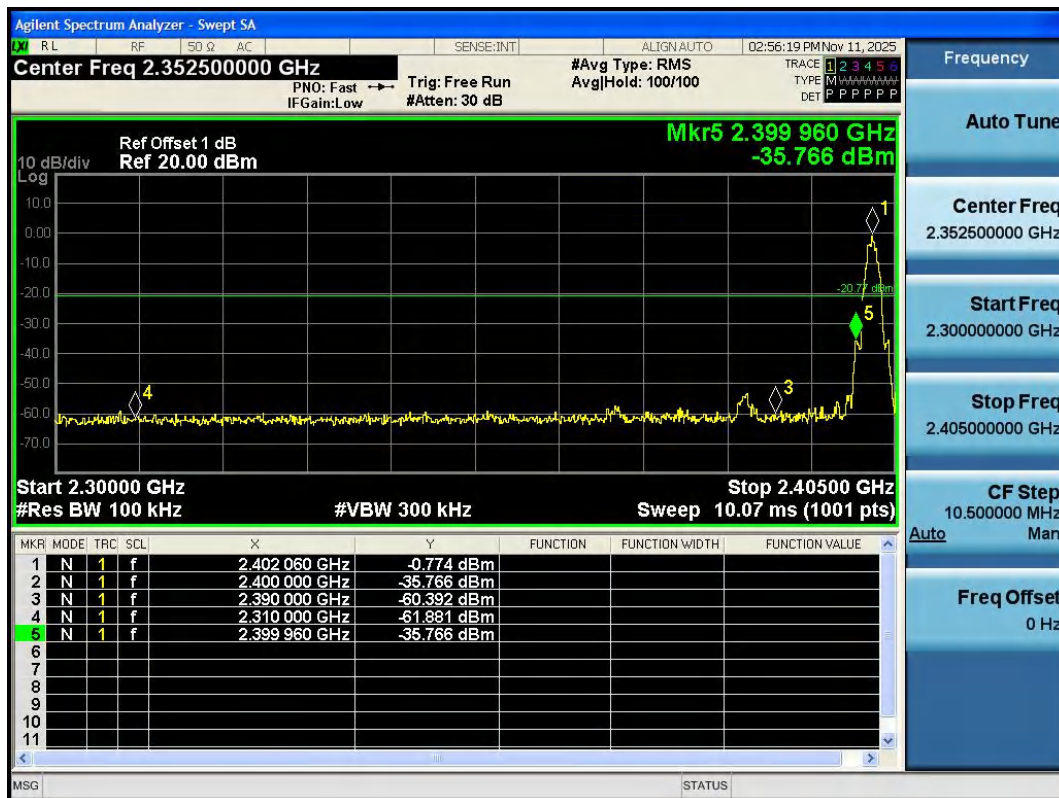
Test Graphs



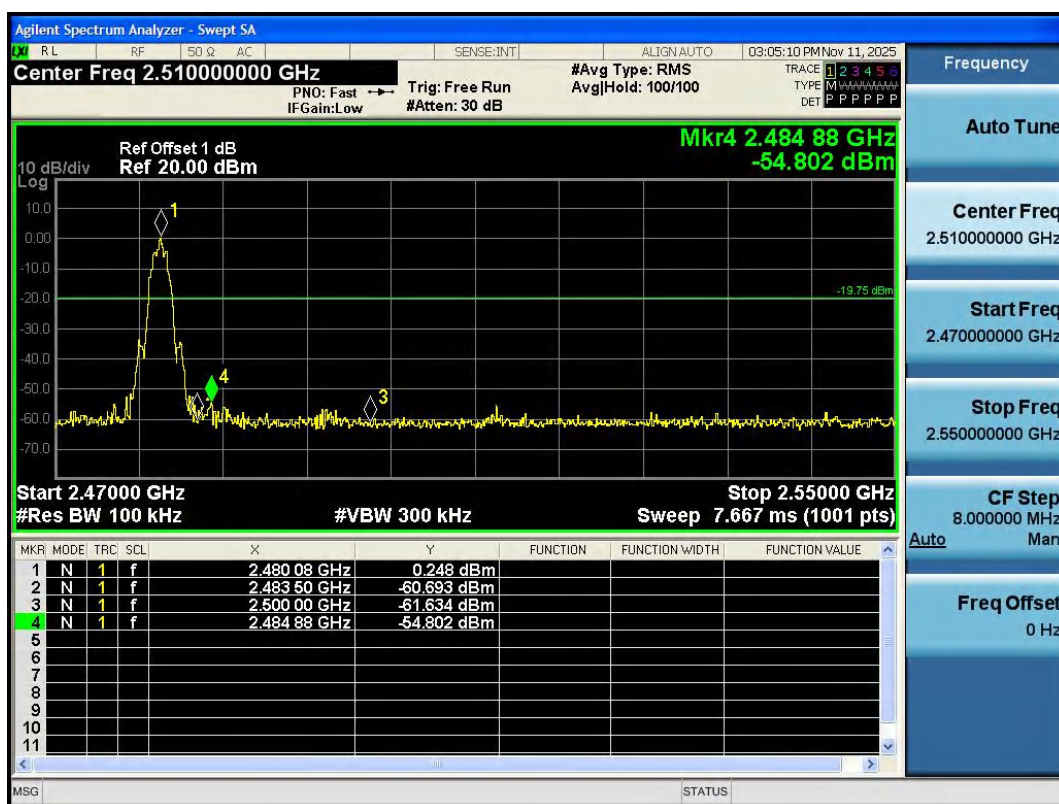
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BLE 2M-Ant1-2402-PASS



BLE 2M-Ant1-2480-PASS

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Appendix F: Conducted Spurious Emission

Test Result

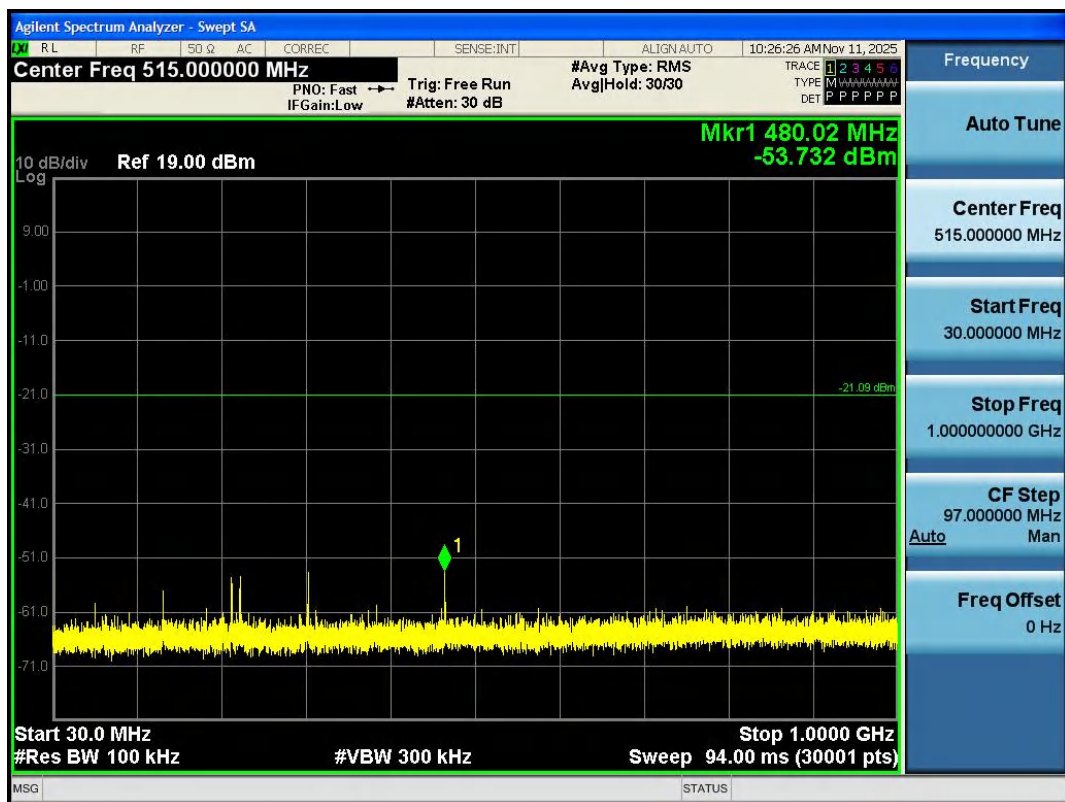
Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-1.09	-1.09	---	PASS
BLE_1M	Ant1	2402	30~1000	-1.09	-53.73	≤-21.09	PASS
BLE_1M	Ant1	2402	1000~26500	-1.09	-36.56	≤-21.09	PASS
BLE_1M	Ant1	2440	0~Reference	-1.24	-1.24	---	PASS
BLE_1M	Ant1	2440	30~1000	-1.24	-53.24	≤-21.24	PASS
BLE_1M	Ant1	2440	1000~26500	-1.24	-35.75	≤-21.24	PASS
BLE_1M	Ant1	2480	0~Reference	-0.53	-0.53	---	PASS
BLE_1M	Ant1	2480	30~1000	-0.53	-53.57	≤-20.53	PASS
BLE_1M	Ant1	2480	1000~26500	-0.53	-36.54	≤-20.53	PASS
BLE_2M	Ant1	2402	0~Reference	-0.63	-0.63	---	PASS
BLE_2M	Ant1	2402	30~1000	-0.63	-52.48	≤-20.63	PASS
BLE_2M	Ant1	2402	1000~26500	-0.63	-38.95	≤-20.63	PASS
BLE_2M	Ant1	2440	0~Reference	-0.62	-0.62	---	PASS
BLE_2M	Ant1	2440	30~1000	-0.62	-52.68	≤-20.62	PASS
BLE_2M	Ant1	2440	1000~26500	-0.62	-34.73	≤-20.62	PASS
BLE_2M	Ant1	2480	0~Reference	0.19	0.19	---	PASS
BLE_2M	Ant1	2480	30~1000	0.19	-53.2	≤-19.81	PASS
BLE_2M	Ant1	2480	1000~26500	0.19	-35.27	≤-19.81	PASS

Remark:Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose and attenuator factors have been set in the 'Input Correction' of the Spectrum Analyzer during the test.

Test Graphs



BLE_1M-Ant1-2402-0~Reference-PASS

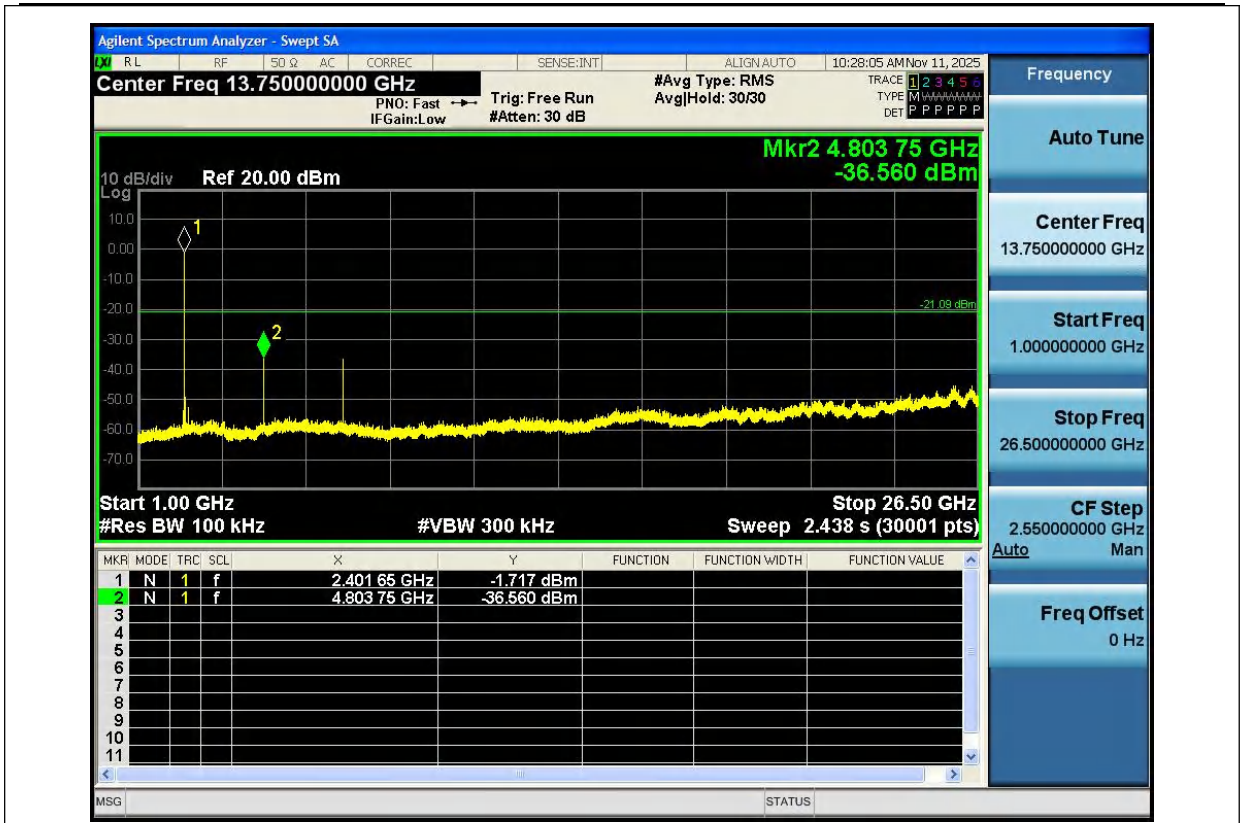


BLE_1M-Ant1-2402-30~1000-PASS

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BLE_1M-Ant1-2402-1000~26500-PASS

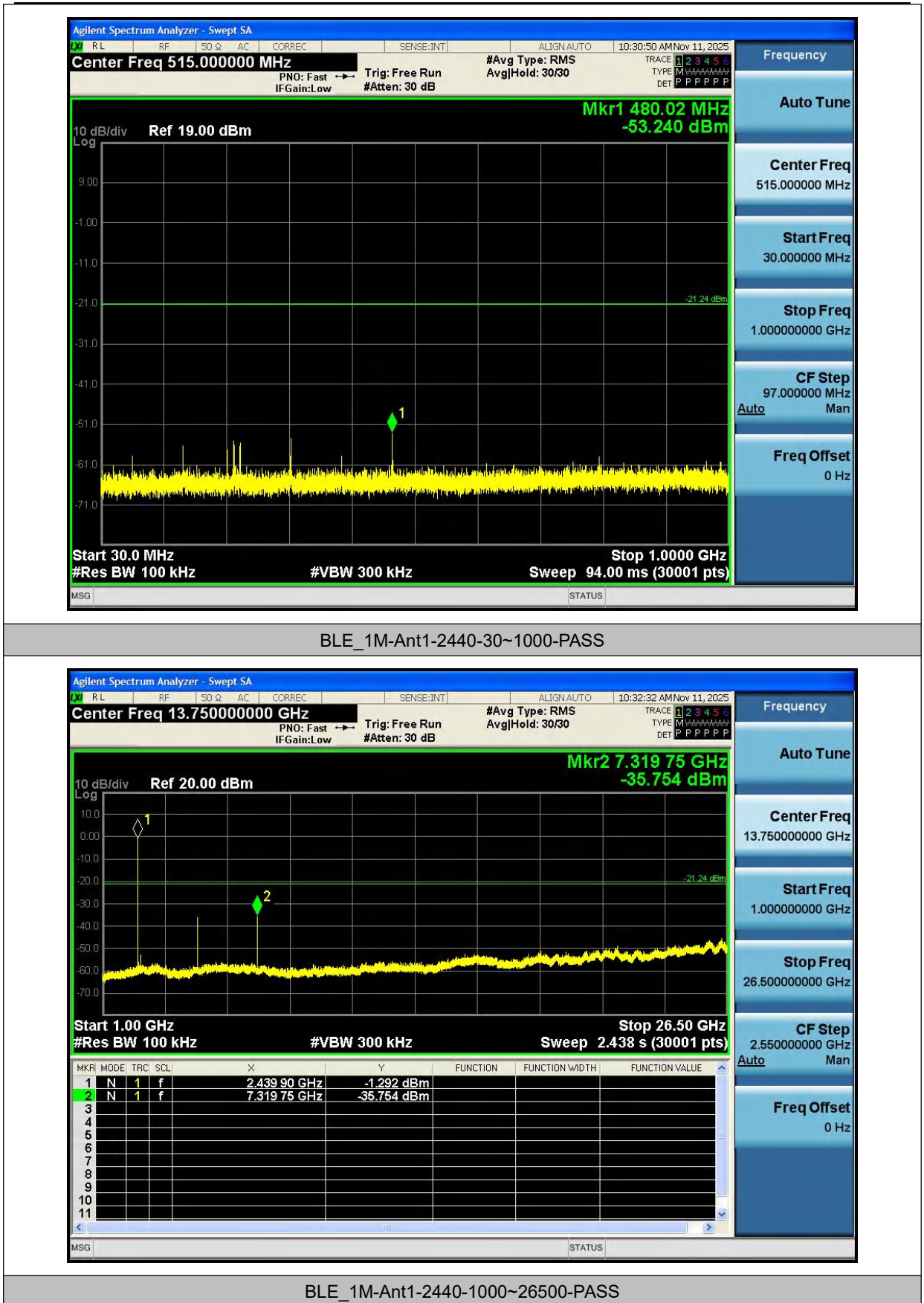


BLE_1M-Ant1-2440-0~Reference-PASS

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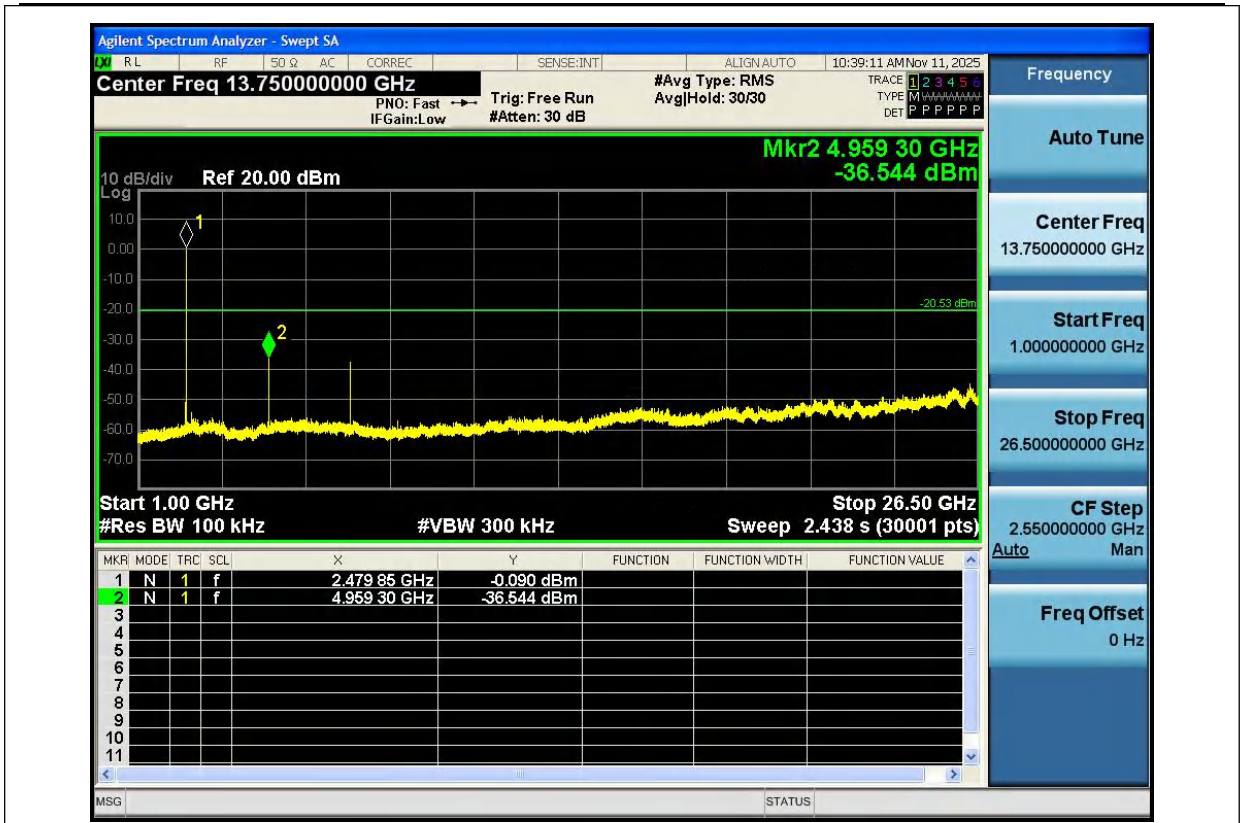
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BLE_1M-Ant1-2480-1000~26500-PASS

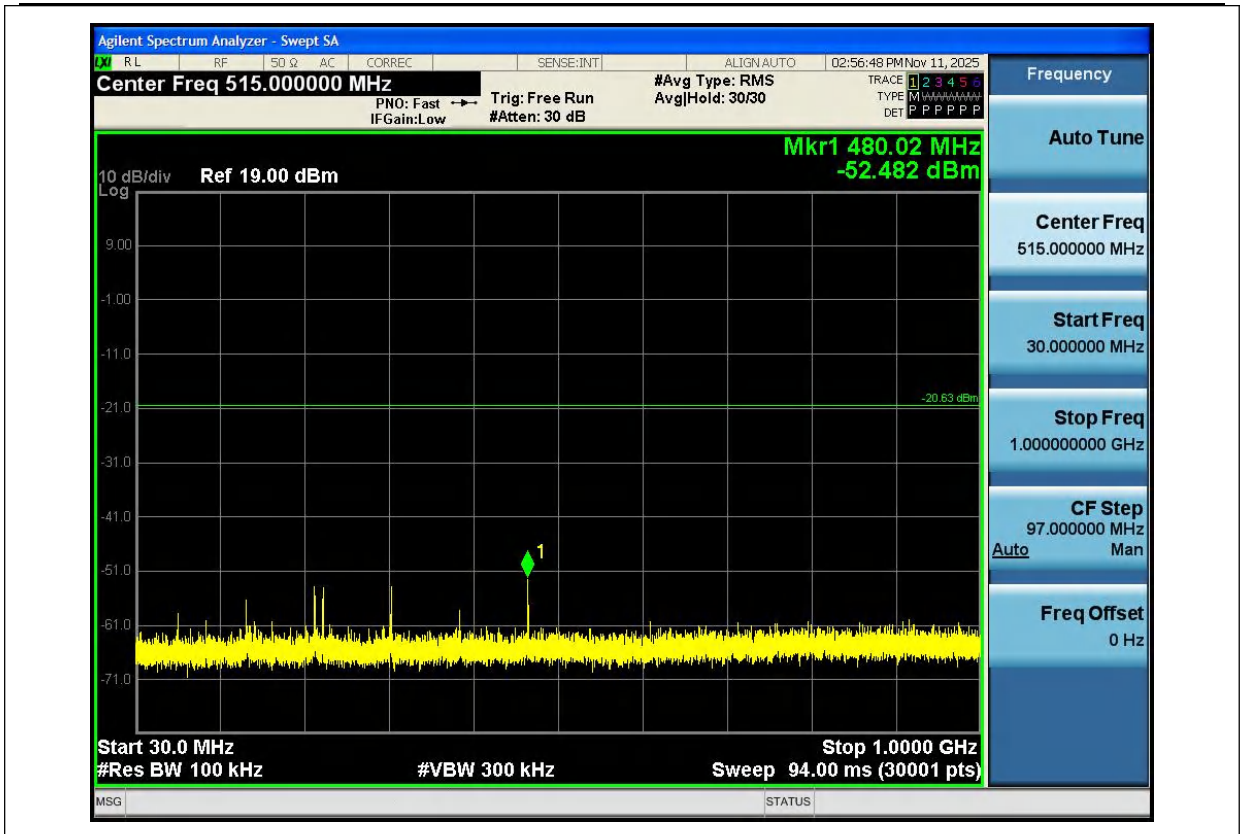


BLE_2M-Ant1-2402-0~Reference-PASS

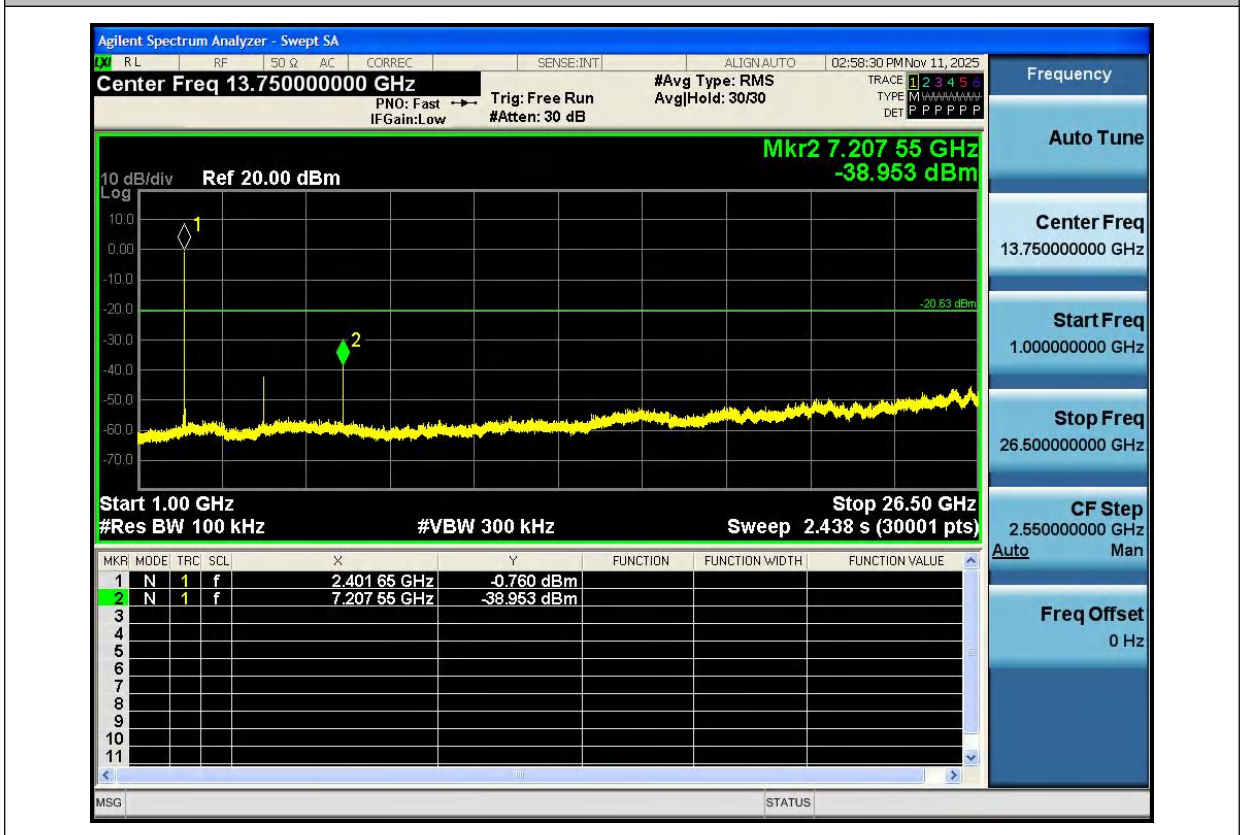
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BLE_2M-Ant1-2402-30~1000-PASS



BLE_2M-Ant1-2402-1000~26500-PASS

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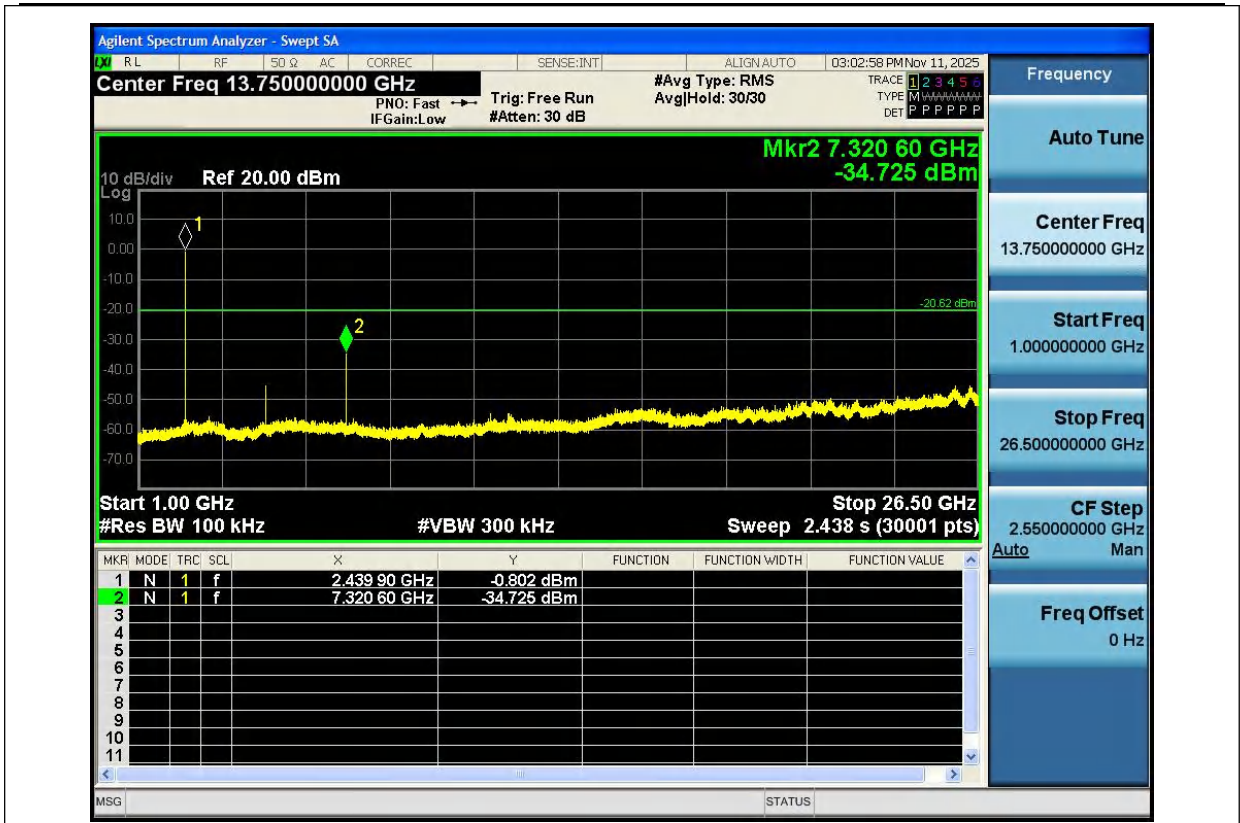
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BLE_2M-Ant1-2440-1000~26500-PASS

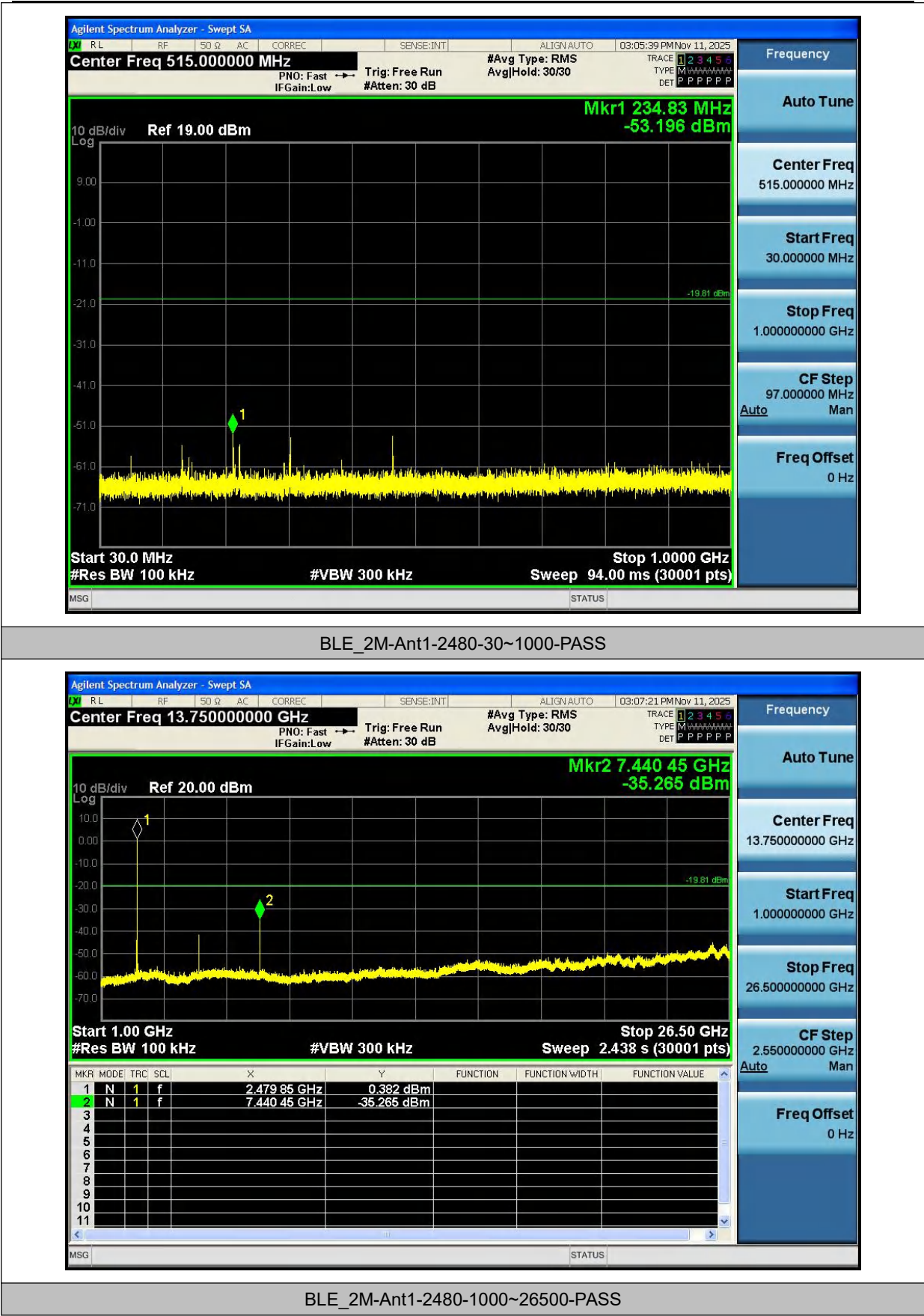


BLE_2M-Ant1-2480-0~Reference-PASS

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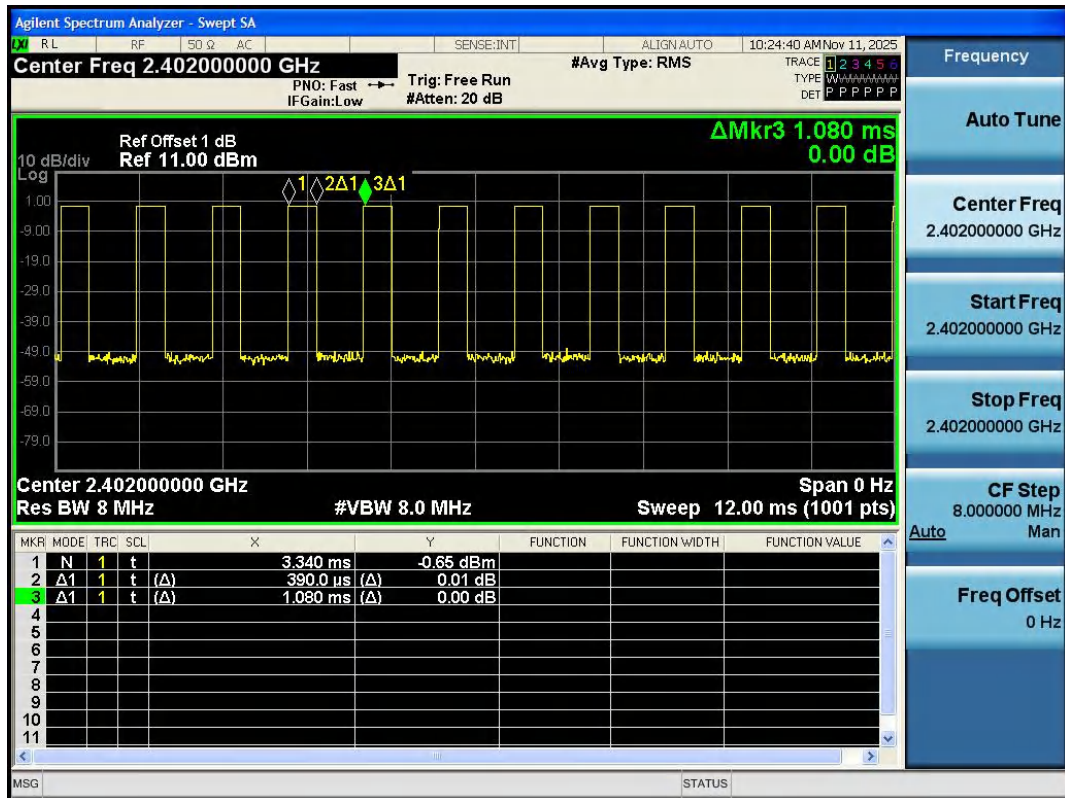


Appendix G: Duty Cycle

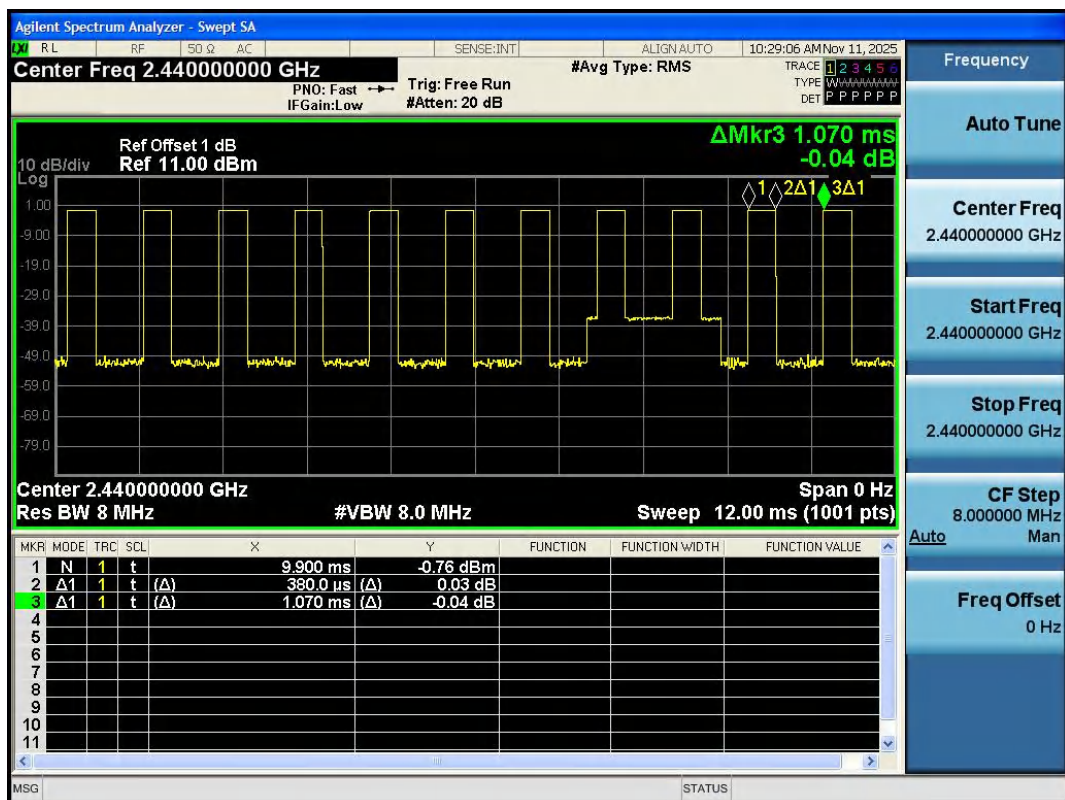
Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.39	1.08	36.11	4.42
BLE_1M	Ant1	2440	0.38	1.07	35.51	4.50
BLE_1M	Ant1	2480	0.39	1.08	36.11	4.42
BLE_2M	Ant1	2402	0.20	0.89	22.47	6.48
BLE_2M	Ant1	2440	0.21	0.90	23.33	6.32
BLE_2M	Ant1	2480	0.21	0.90	23.33	6.32

Test Graphs



NTNV-BLE_1M-Ant1-2402

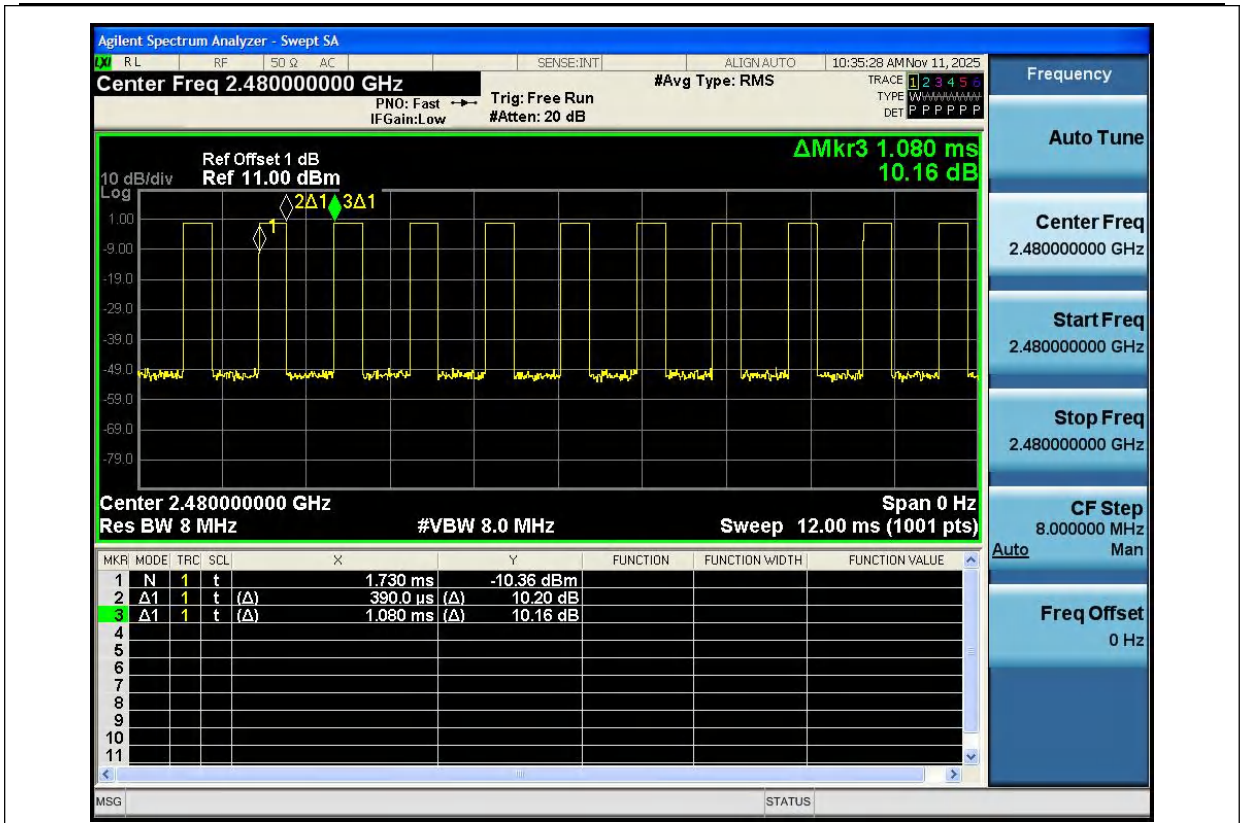


NTNV-BLE_1M-Ant1-2440

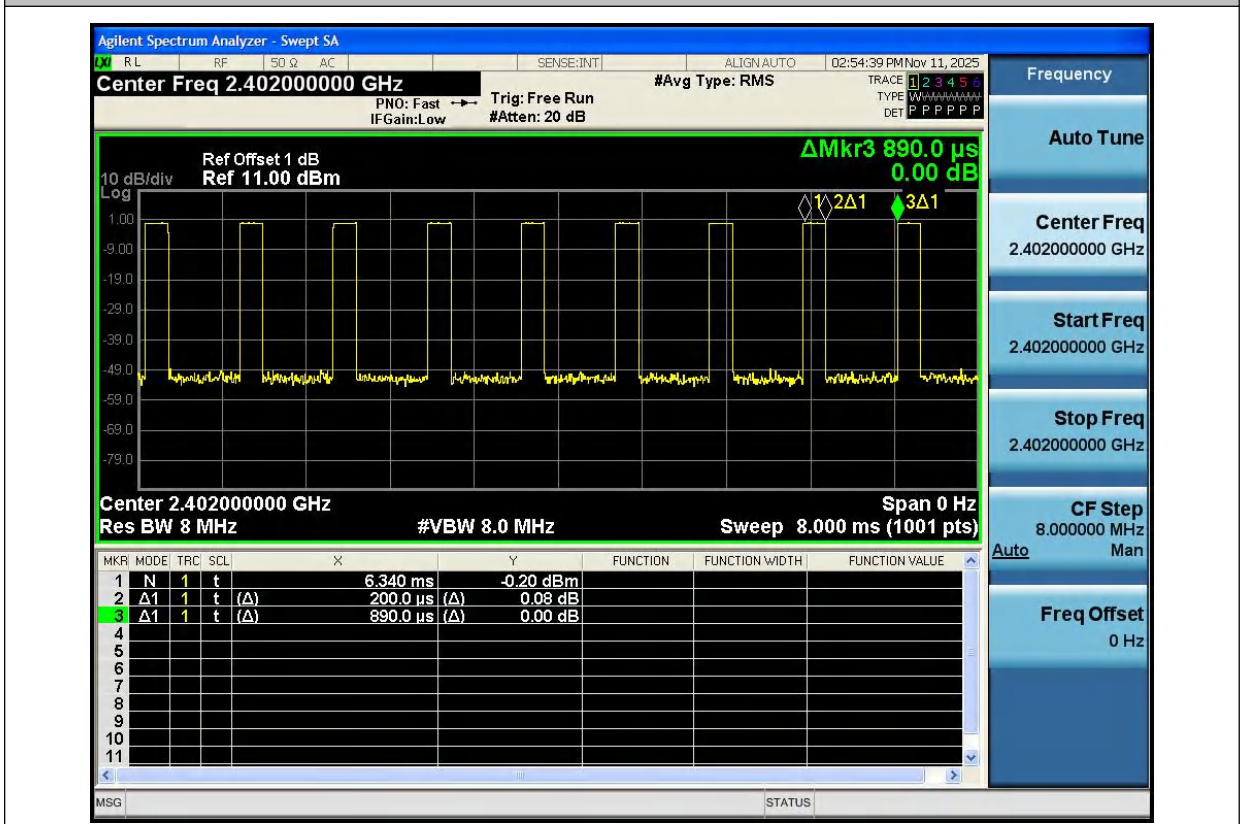
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NTNV-BLE_1M-Ant1-2480

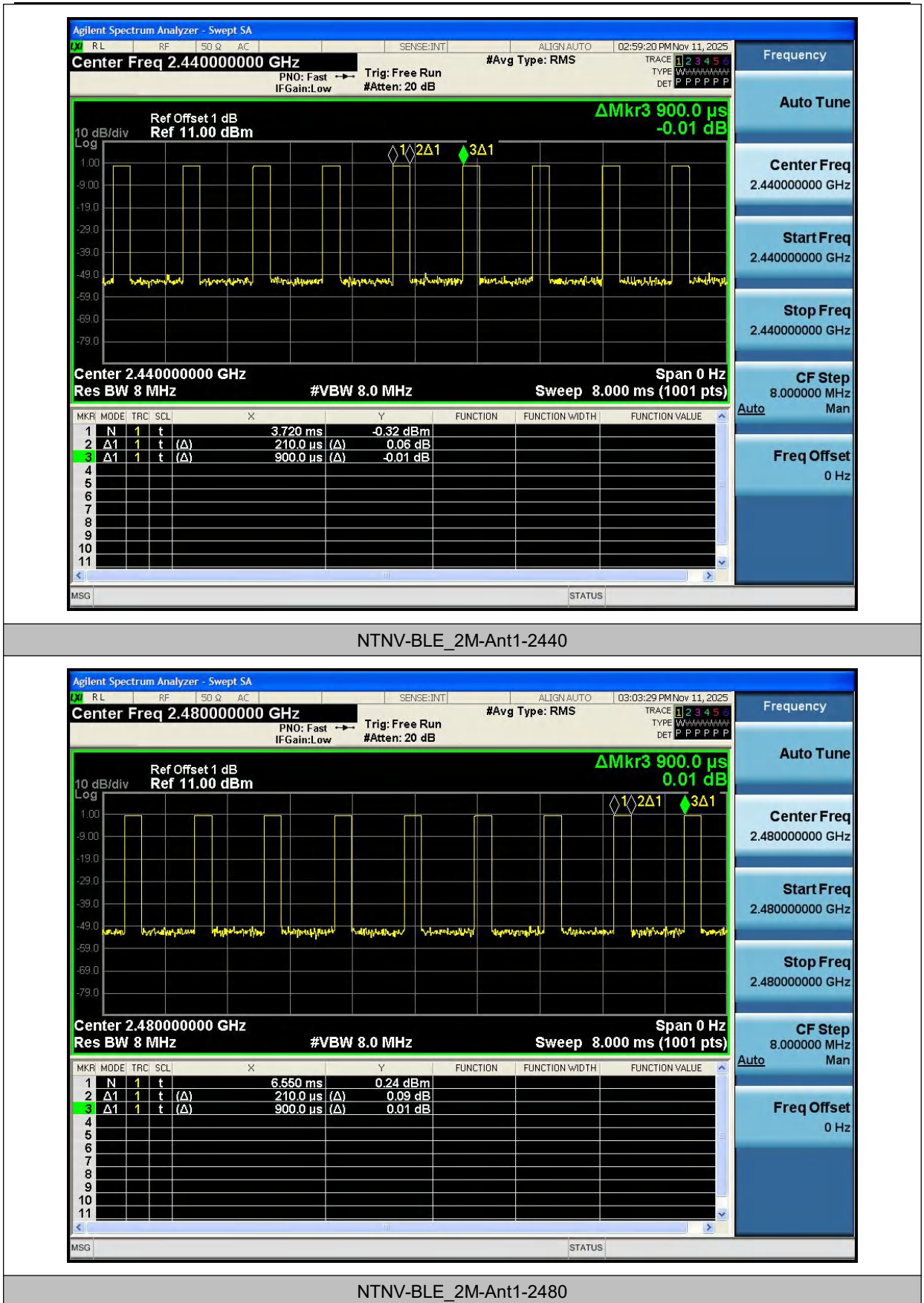


NTNV-BLE_2M-Ant1-2402

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