

Appendix Test Data

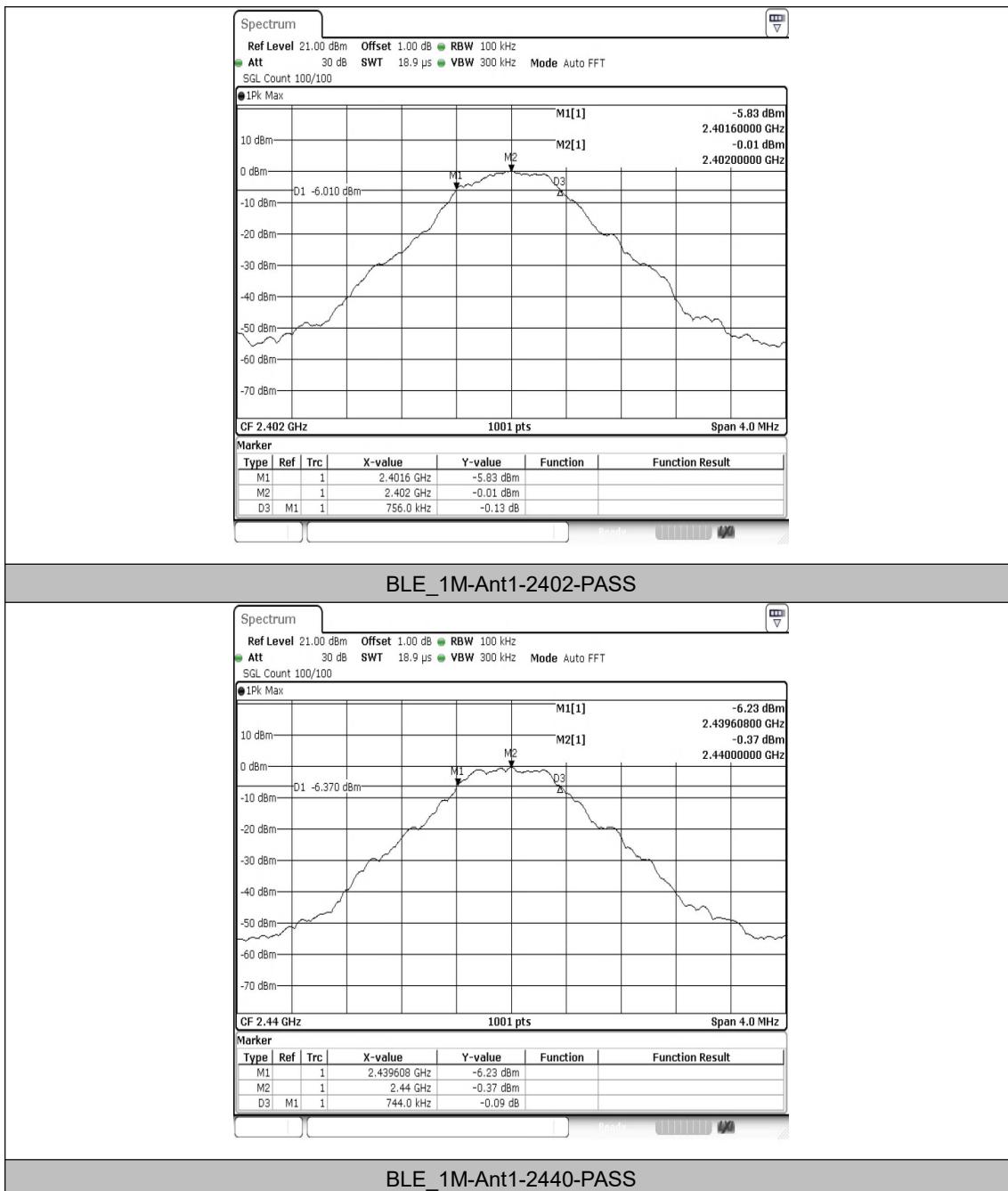
Report No.:	1821C50013512501	Test Sample No.:	1-2-2
Start Test Date:	2025-6-17	Finish Test Date:	2025-6-23
Test Engineer:	Huisen Guan	Auditor:	Justin Feng
Temperature:	27°C	Relative Humidity:	52%
Pressure:	101kPa		

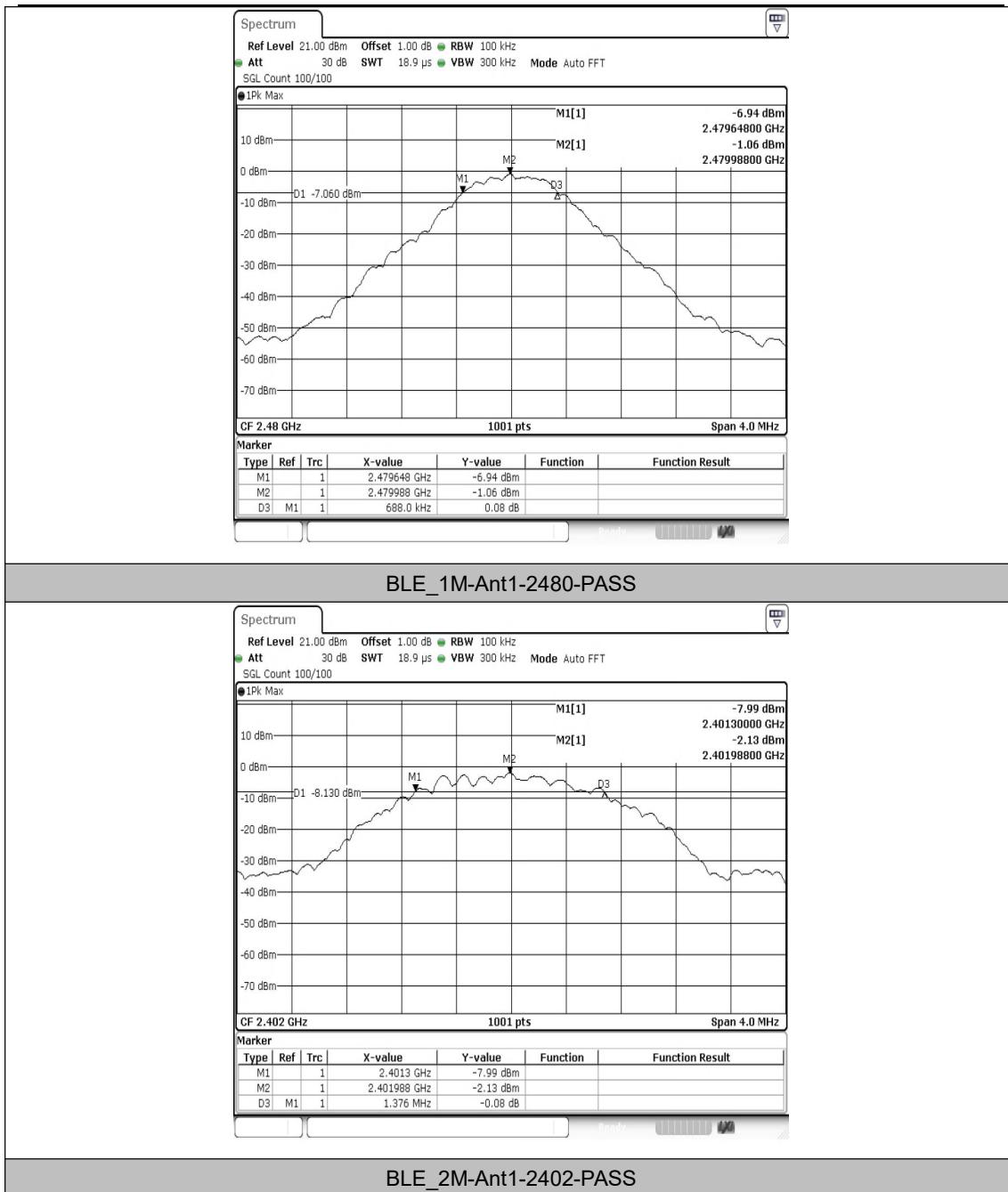
Appendix A: 6dB Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.76	2401.60	2402.36	0.5	PASS
BLE_1M	Ant1	2440	0.74	2439.61	2440.35	0.5	PASS
BLE_1M	Ant1	2480	0.69	2479.65	2480.34	0.5	PASS
BLE_2M	Ant1	2402	1.38	2401.30	2402.68	0.5	PASS
BLE_2M	Ant1	2440	1.27	2439.41	2440.68	0.5	PASS
BLE_2M	Ant1	2480	1.12	2479.42	2480.54	0.5	PASS

Test Graphs

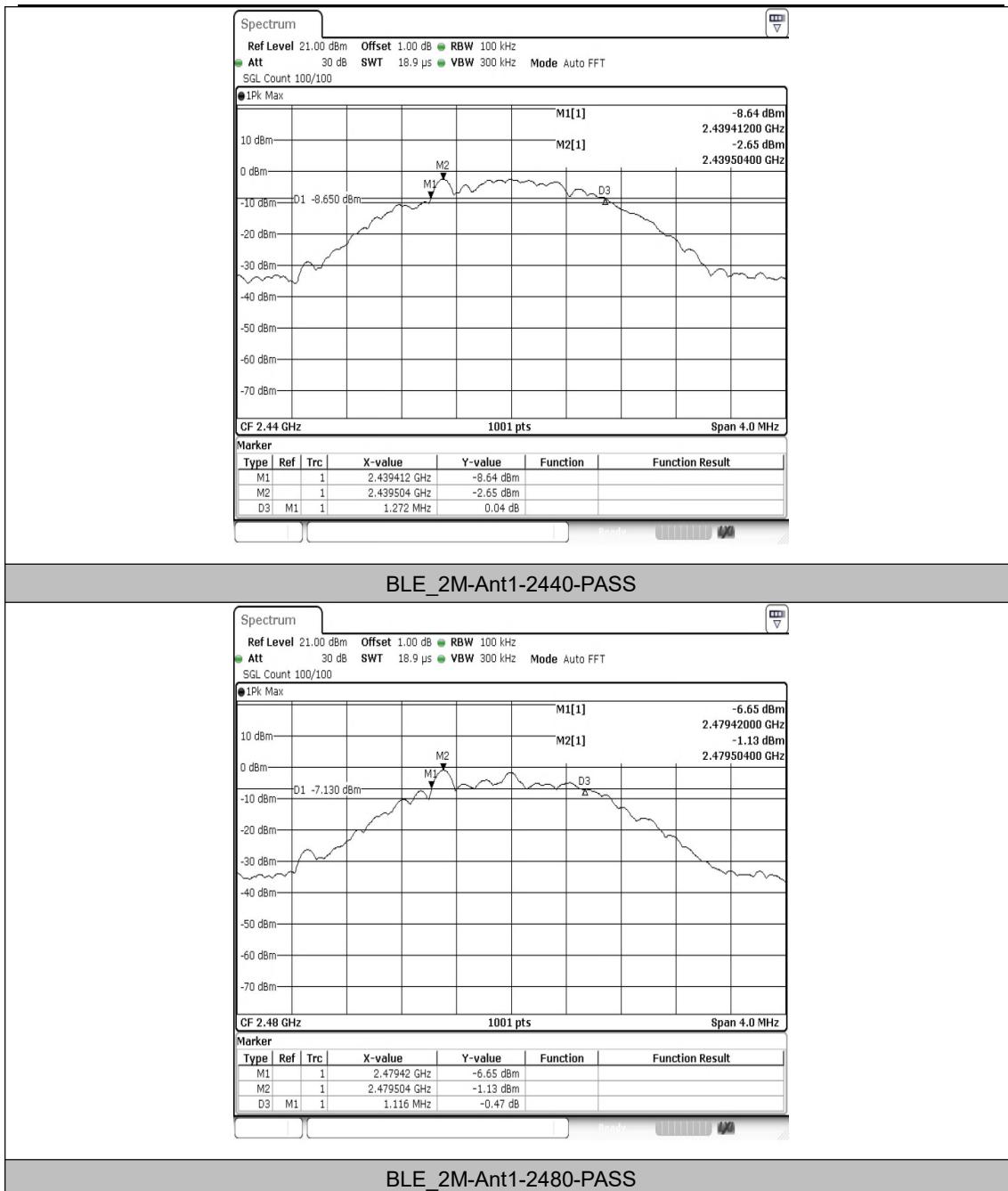




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Appendix B: 99% Occupied Bandwidth

Test Result

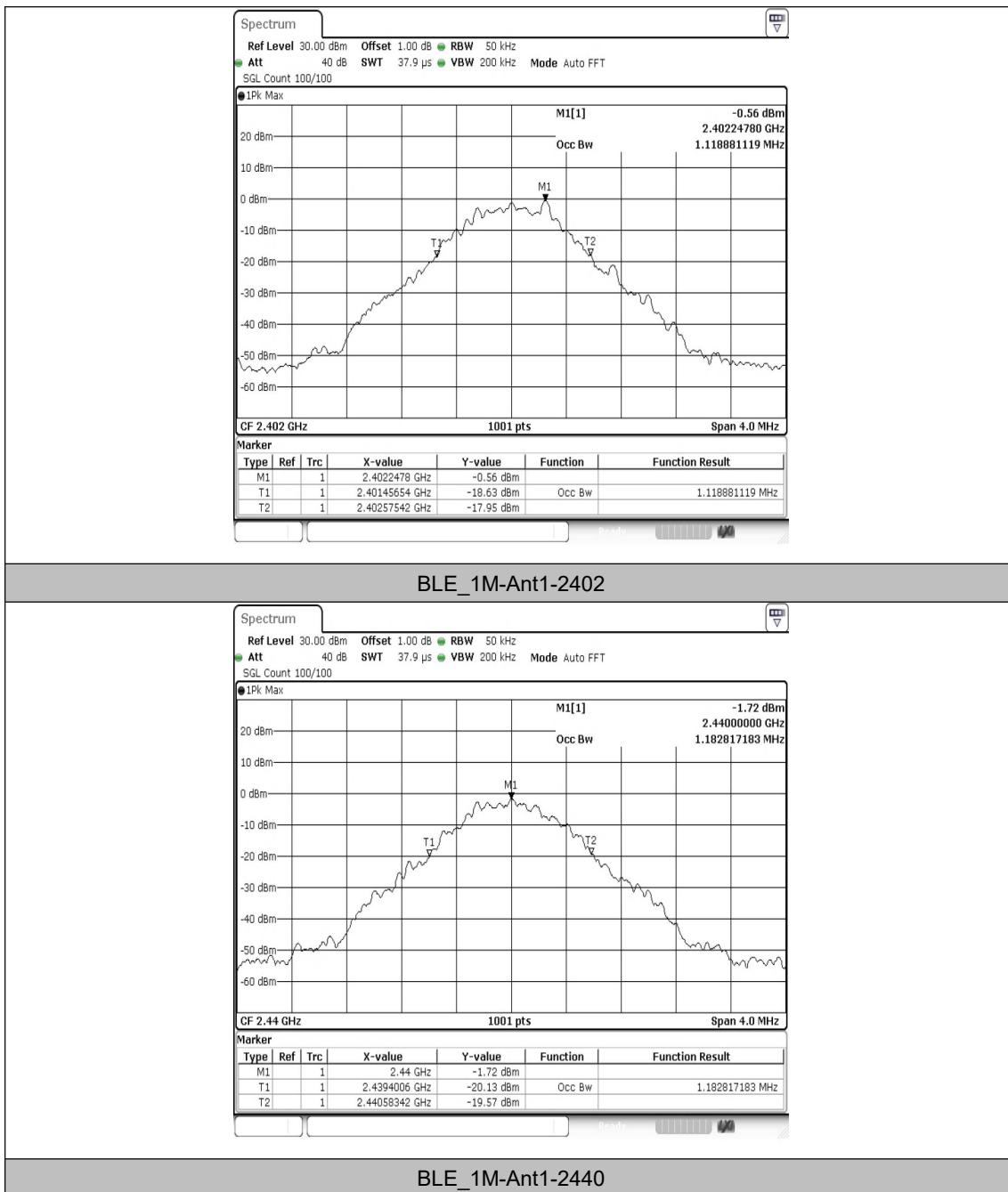
Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.1189	2401.4565	2402.5754	---	---
BLE_1M	Ant1	2440	1.1828	2439.4006	2440.5834	---	---
BLE_1M	Ant1	2480	1.2148	2479.3886	2480.6034	---	---
BLE_2M	Ant1	2402	2.0659	2400.9850	2403.0509	---	---
BLE_2M	Ant1	2440	2.0539	2438.9770	2441.0310	---	---
BLE_2M	Ant1	2480	2.1139	2478.9451	2481.0589	---	---

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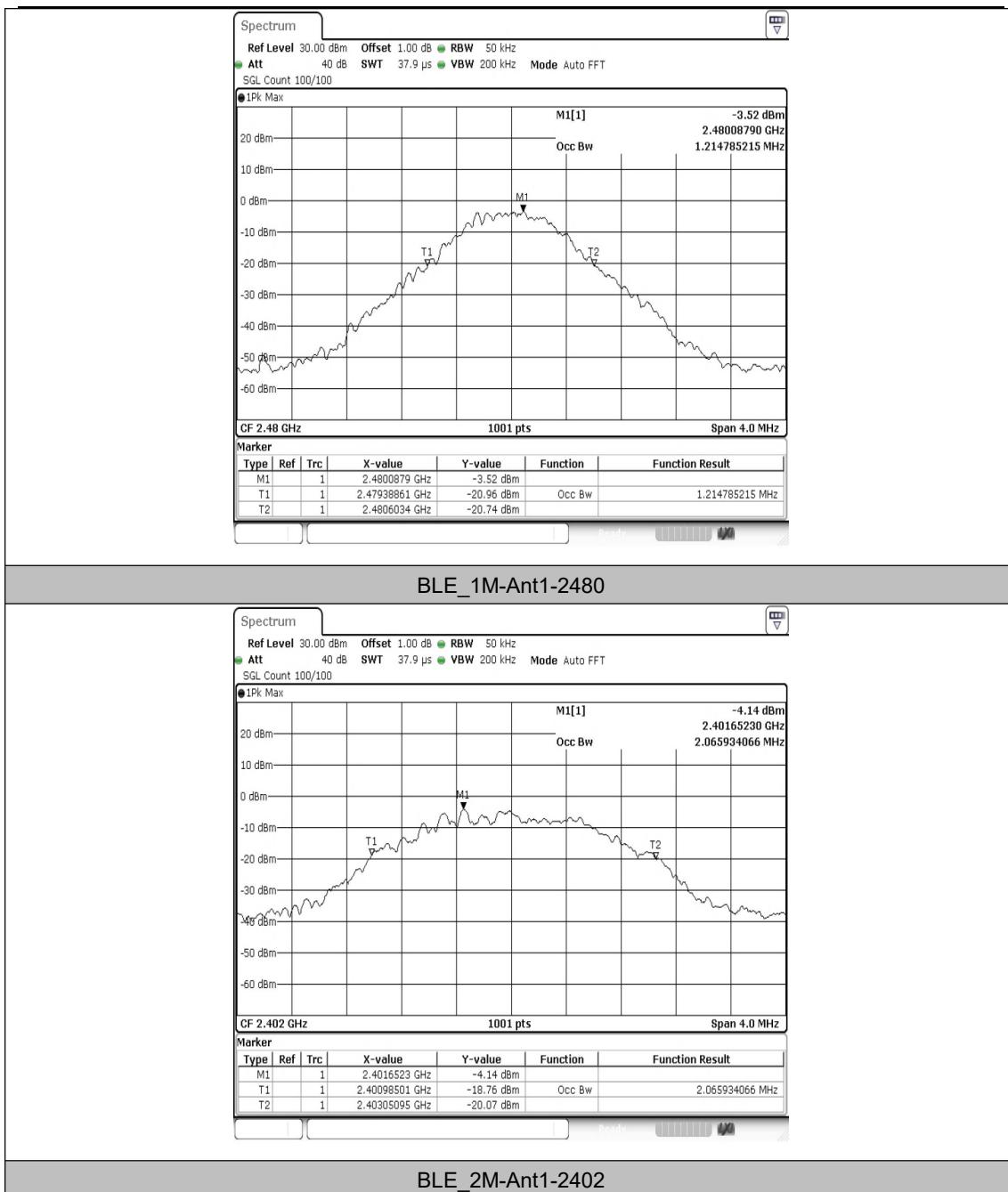
Test Graphs



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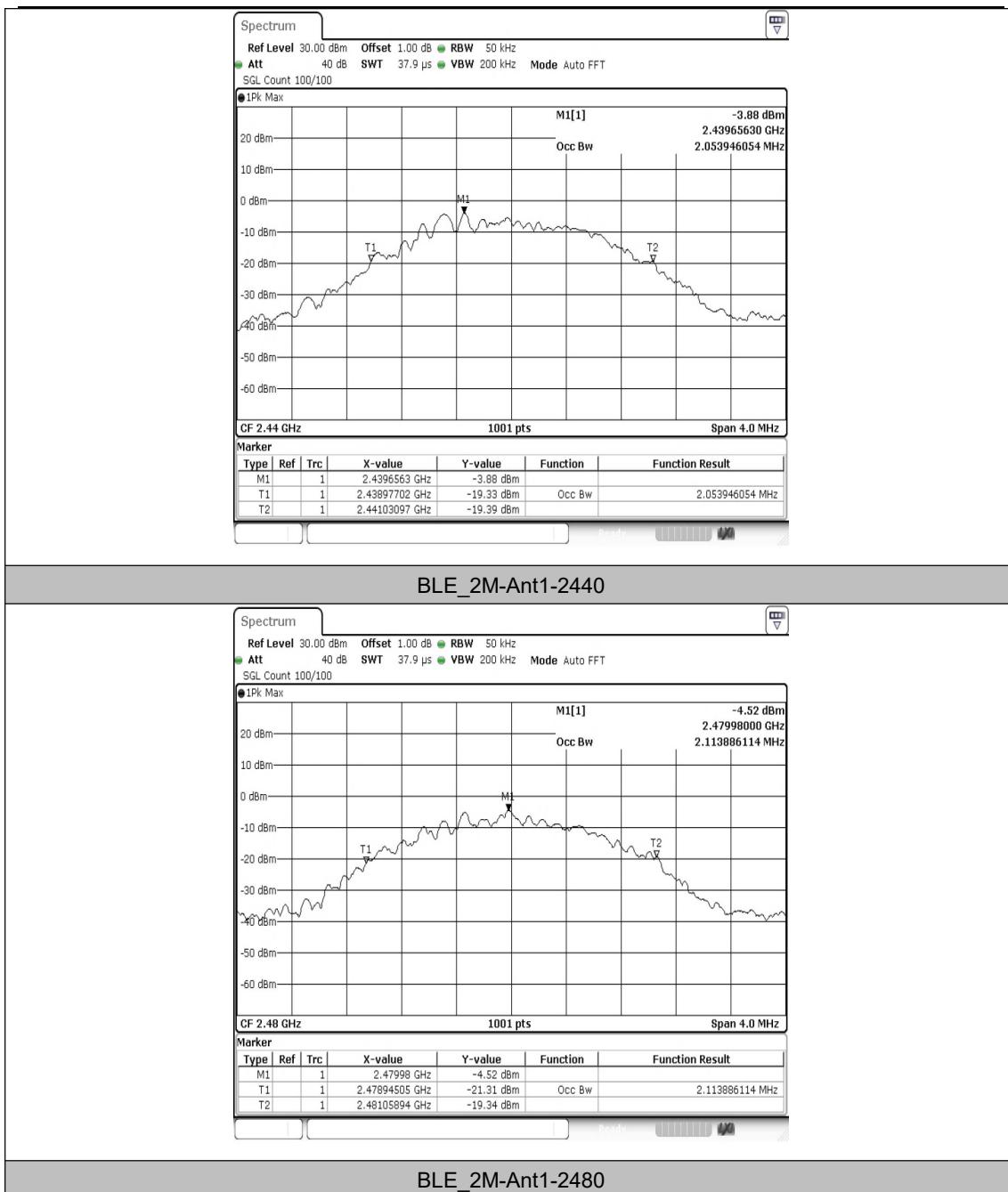
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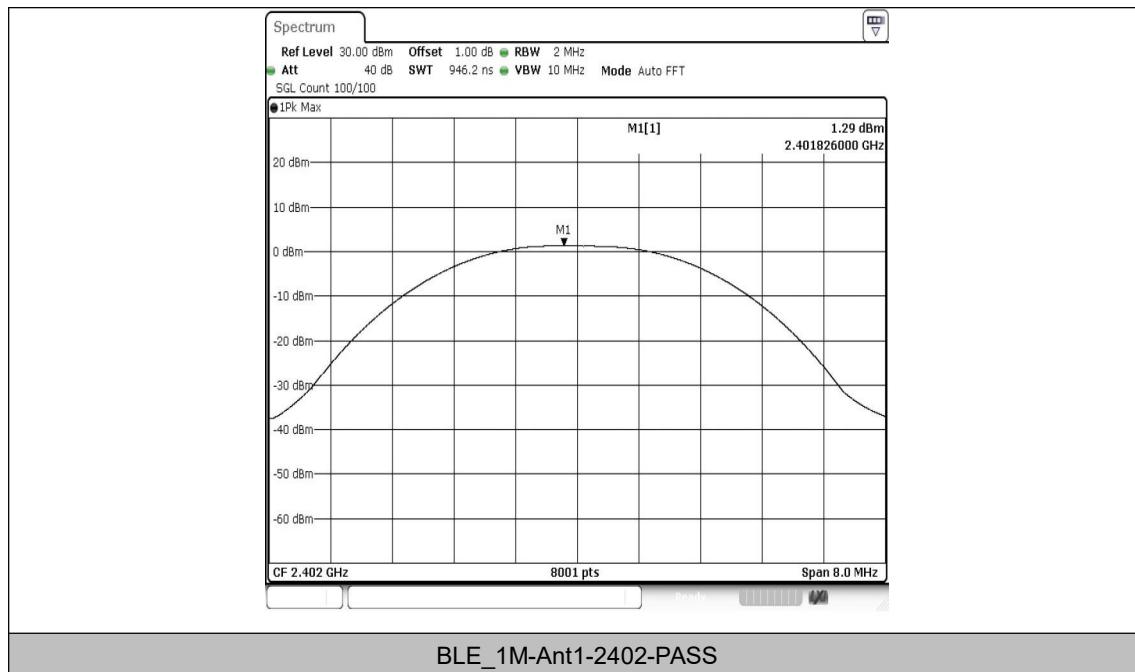
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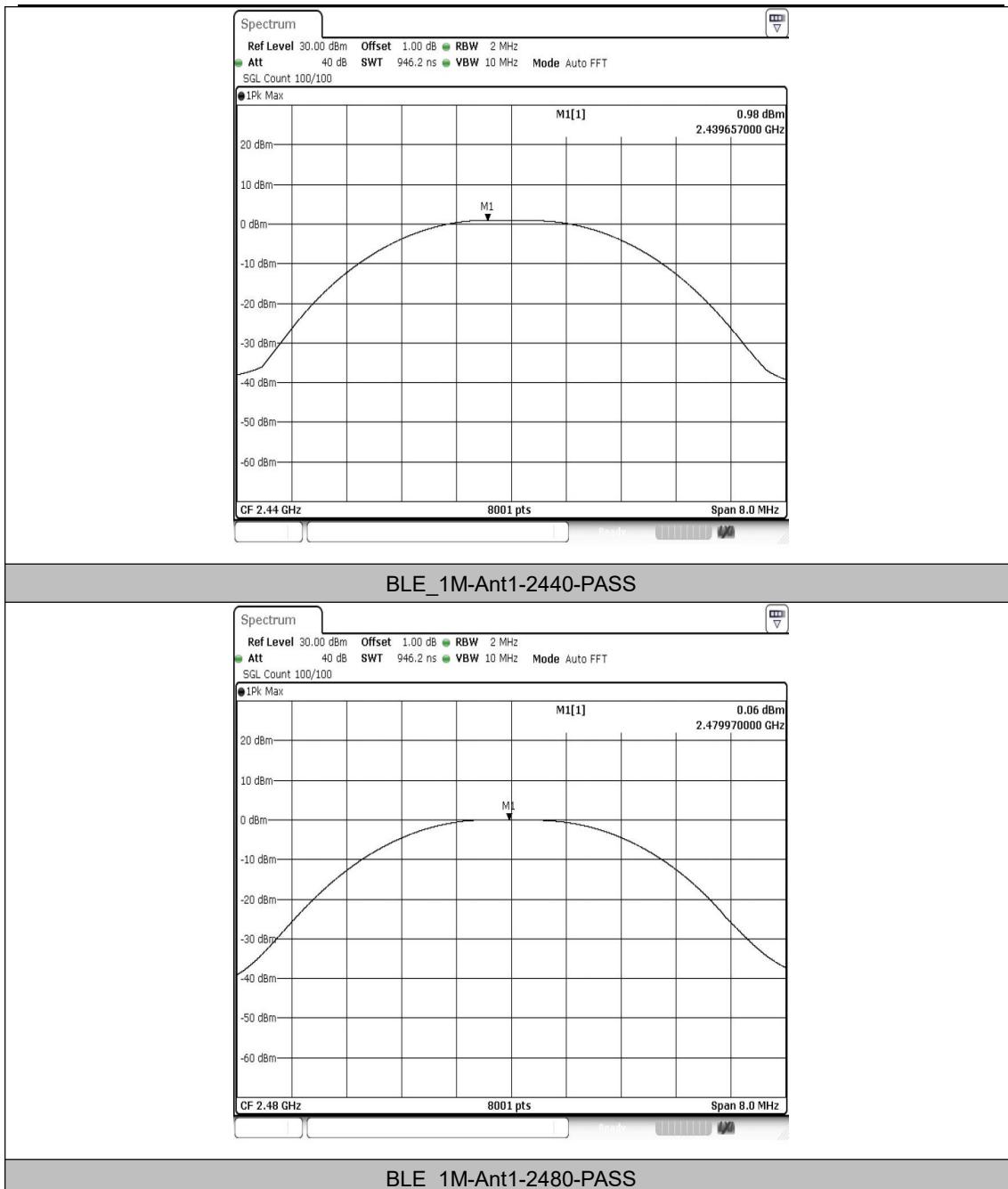
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.29	≤30	PASS
BLE_1M	Ant1	2440	0.98	≤30	PASS
BLE_1M	Ant1	2480	0.06	≤30	PASS
BLE_2M	Ant1	2402	1.16	≤30	PASS
BLE_2M	Ant1	2440	0.82	≤30	PASS
BLE_2M	Ant1	2480	0.12	≤30	PASS

Test Graphs Peak

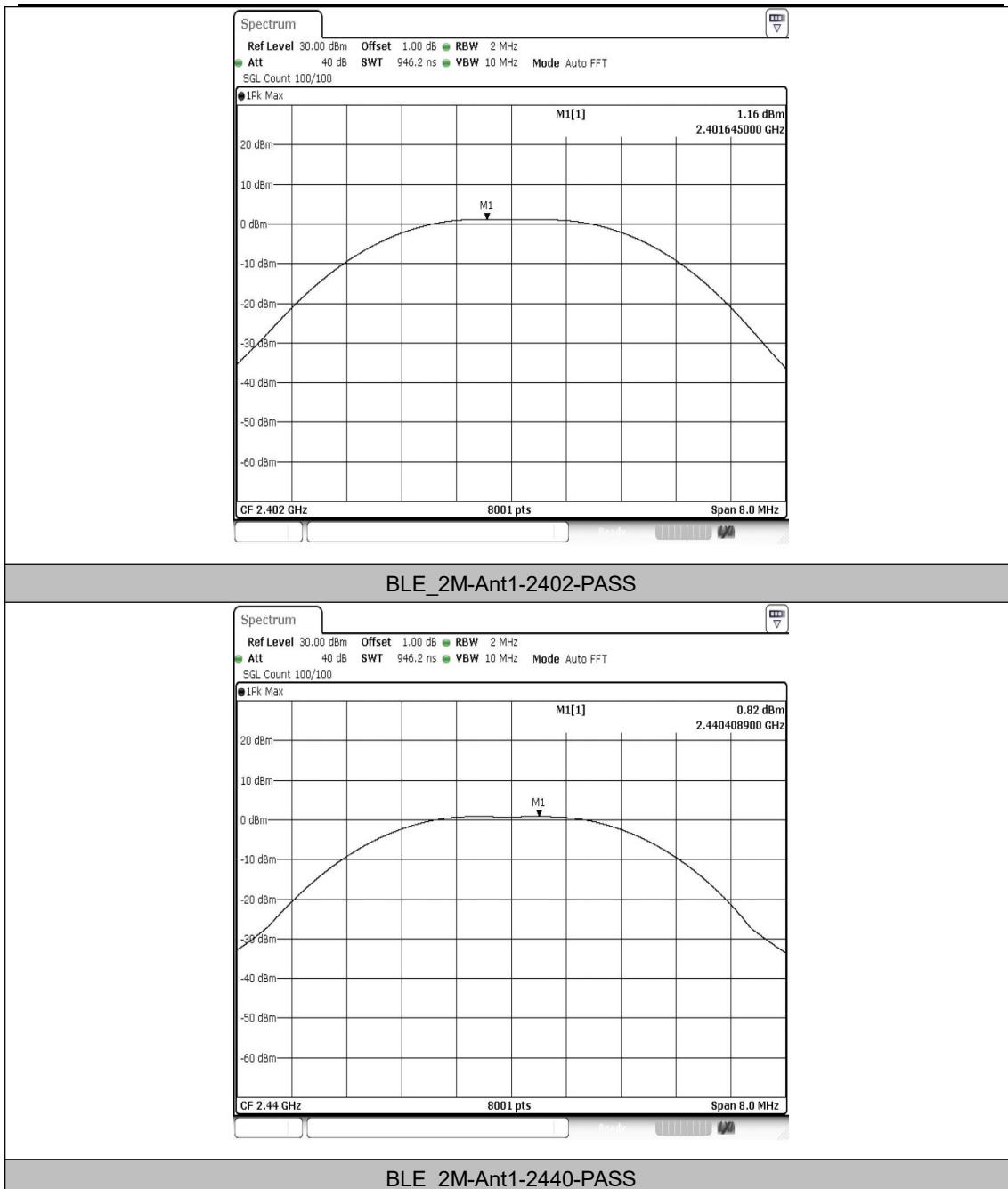




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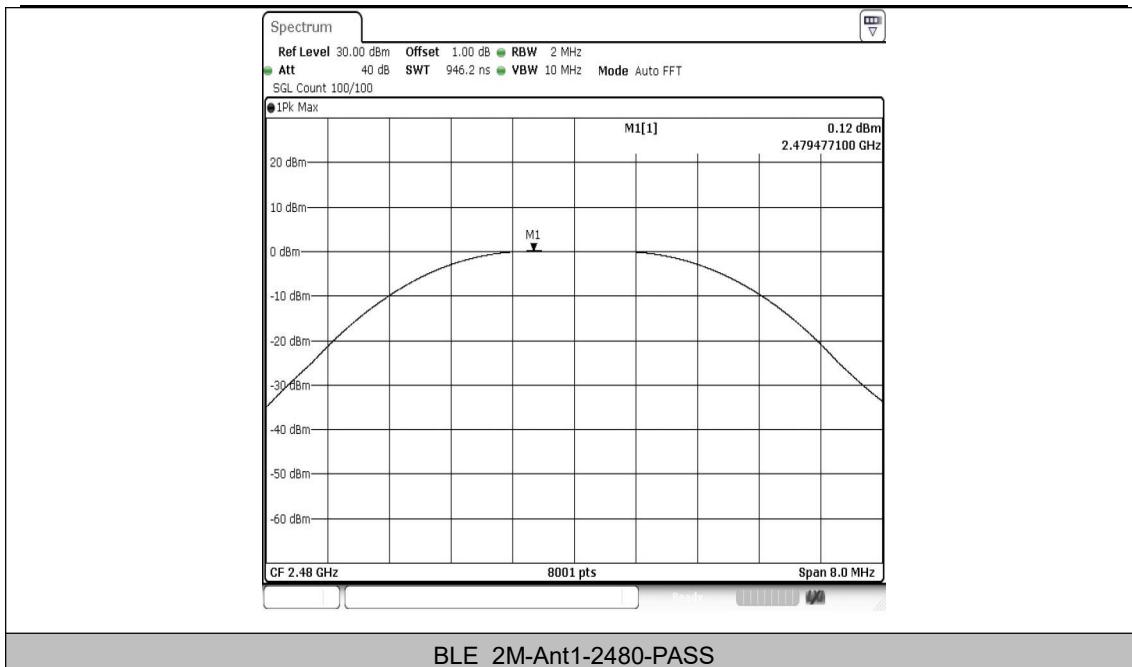
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Appendix D: Maximum power spectral density

Test Result

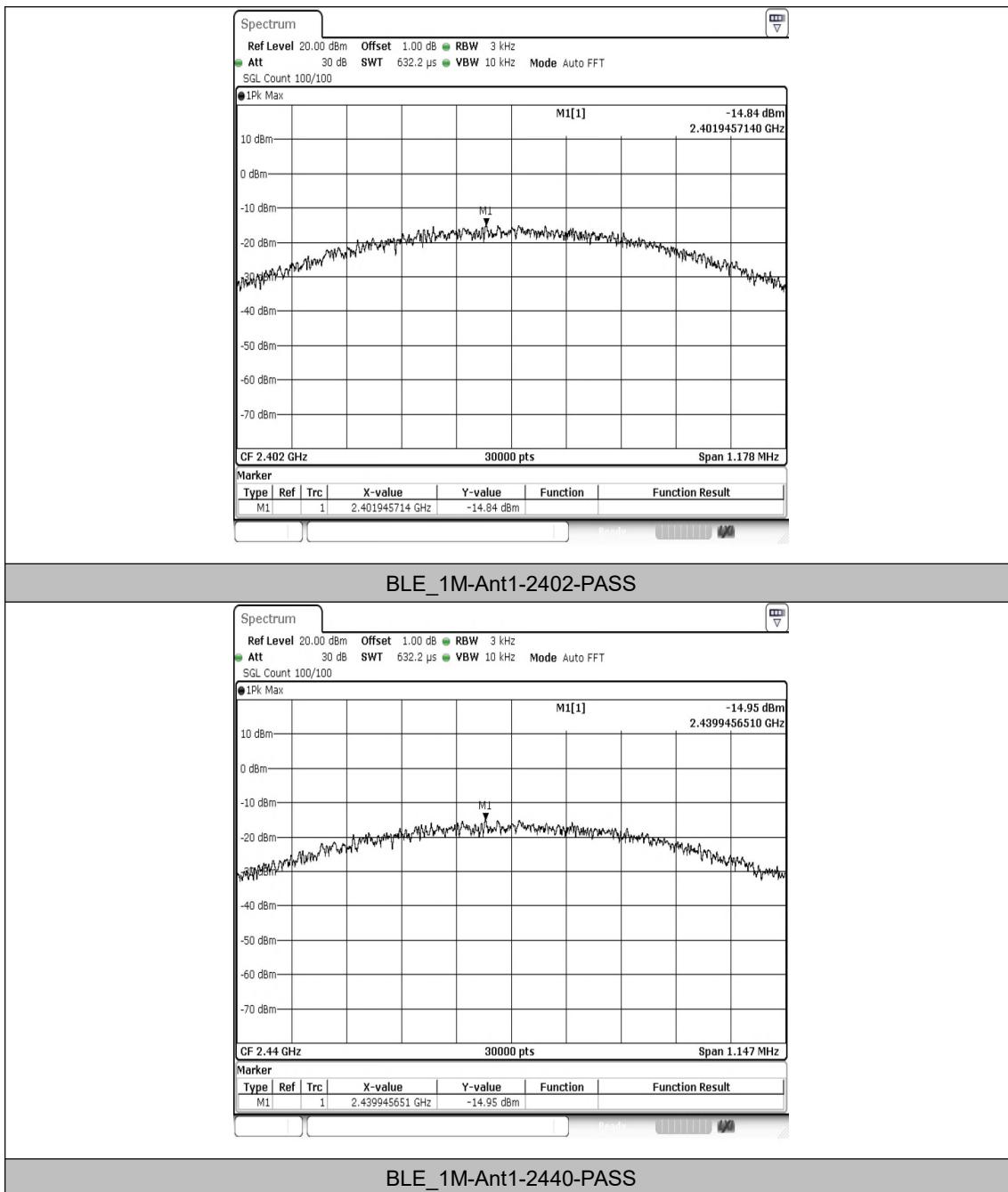
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.84	≤8.00	PASS
BLE_1M	Ant1	2440	-14.95	≤8.00	PASS
BLE_1M	Ant1	2480	-16.23	≤8.00	PASS
BLE_2M	Ant1	2402	-18.74	≤8.00	PASS
BLE_2M	Ant1	2440	-18.13	≤8.00	PASS
BLE_2M	Ant1	2480	-18.75	≤8.00	PASS

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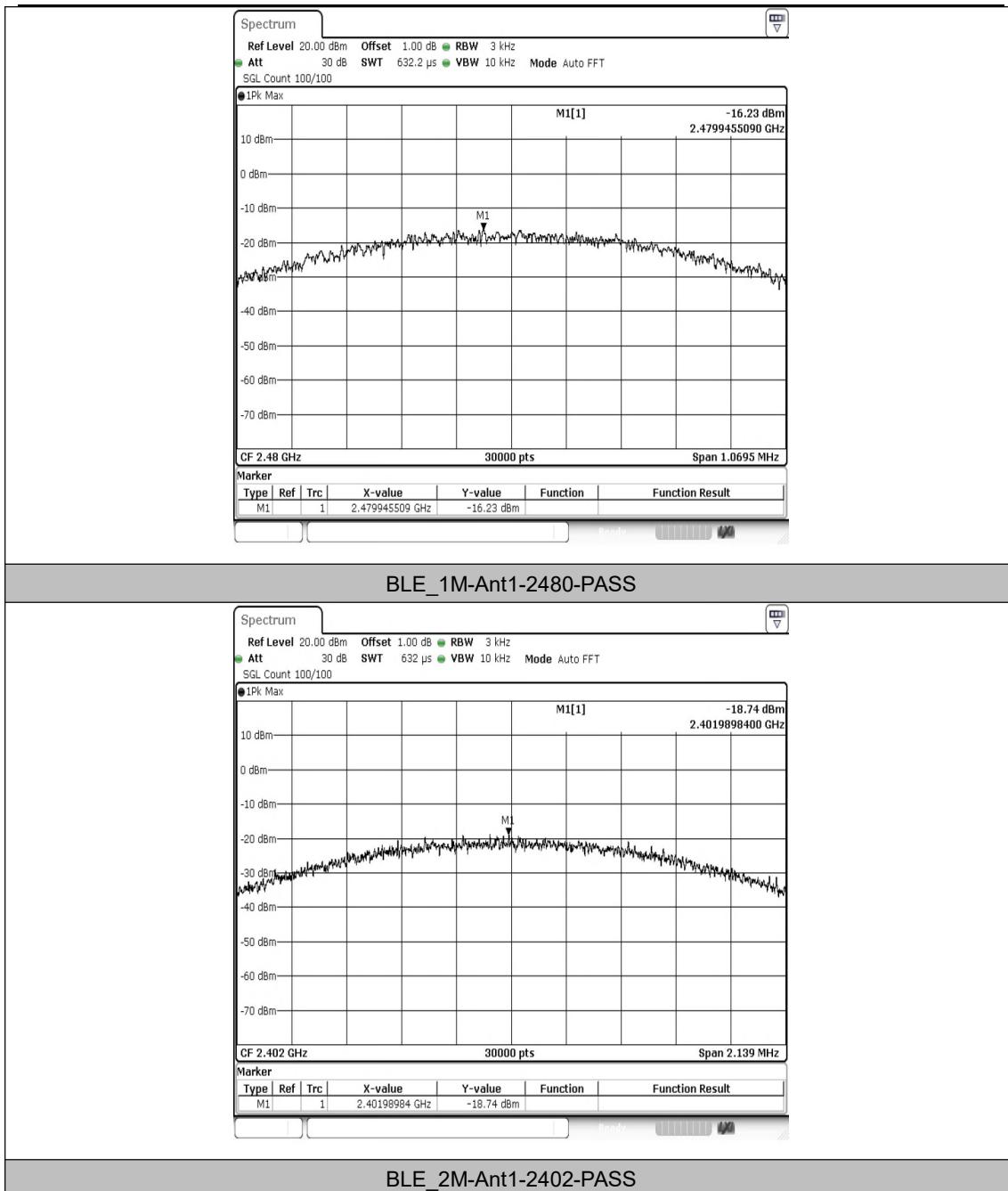
Test Graphs



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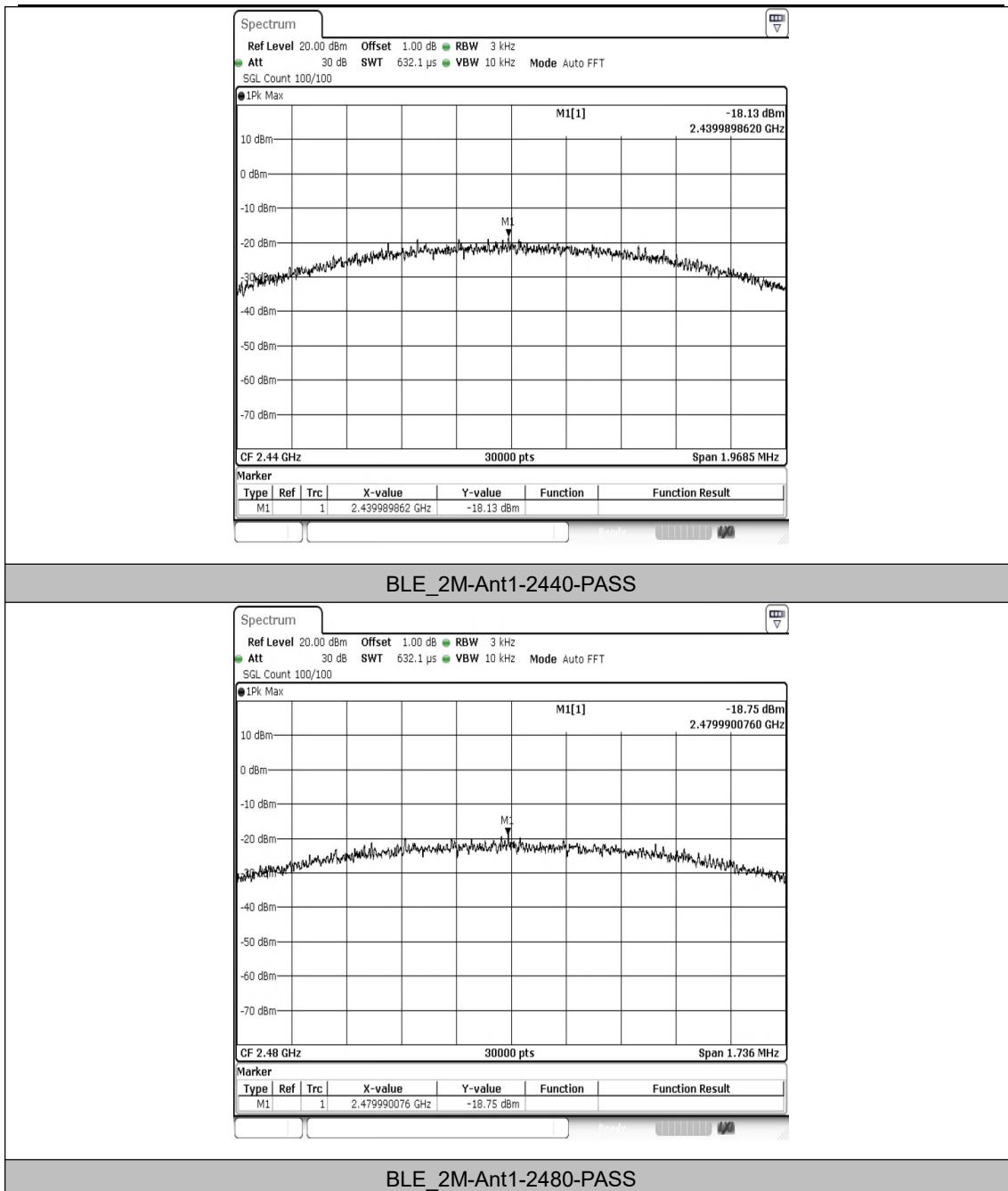
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Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.42	-49.9	≤-19.58	PASS
BLE_1M	Ant1	High	2480	-0.27	-51.78	≤-20.27	PASS
BLE_2M	Ant1	Low	2402	-2.39	-35.13	≤-22.39	PASS
BLE_2M	Ant1	High	2480	-0.77	-51.44	≤-20.77	PASS

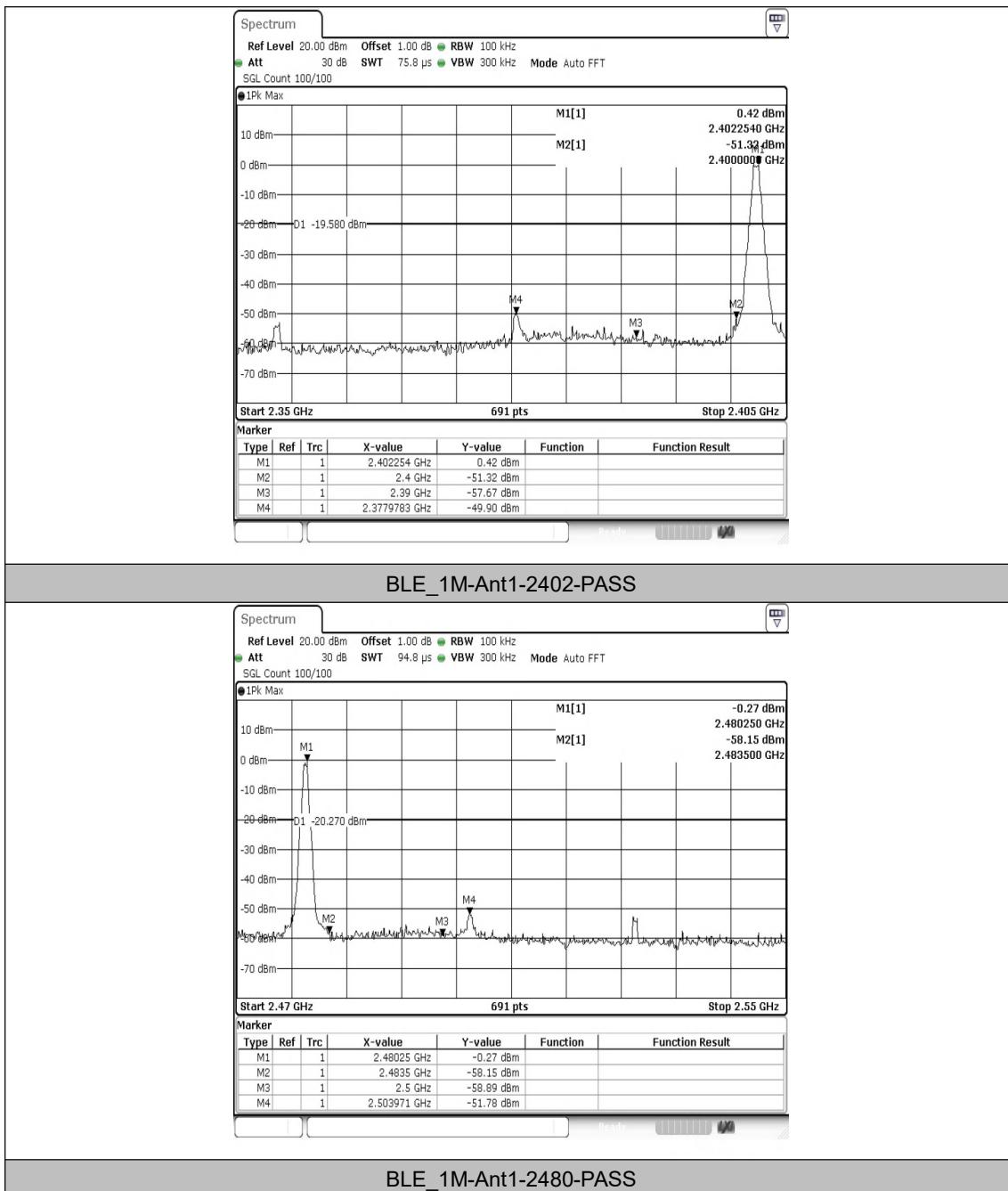
Remark:1. Regarding the spurious emissions from 30MHz to 26.5GHz, the cable loss have been set in the 'offset' of the Spectrum Analyzer during the test.

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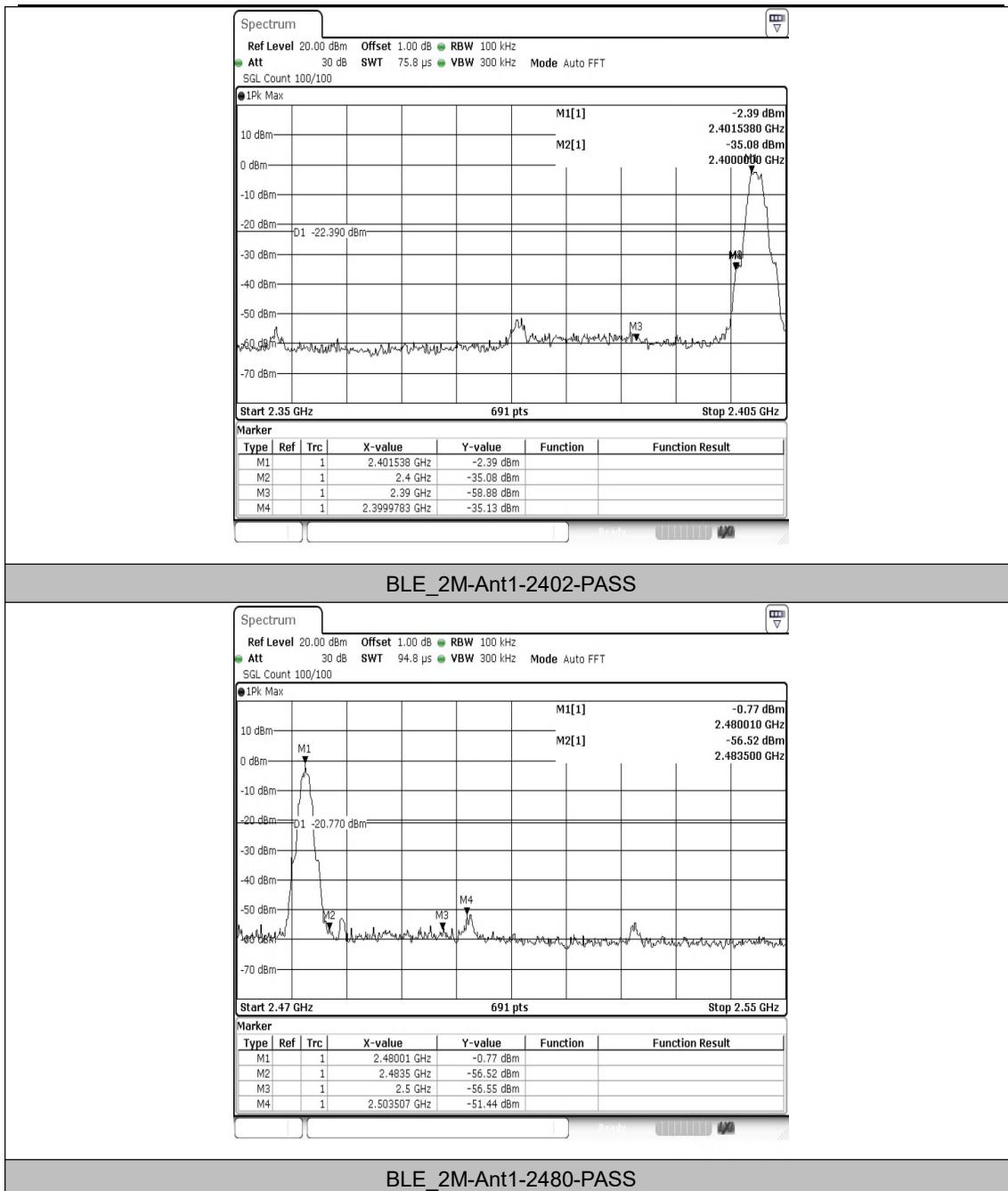
Test Graphs



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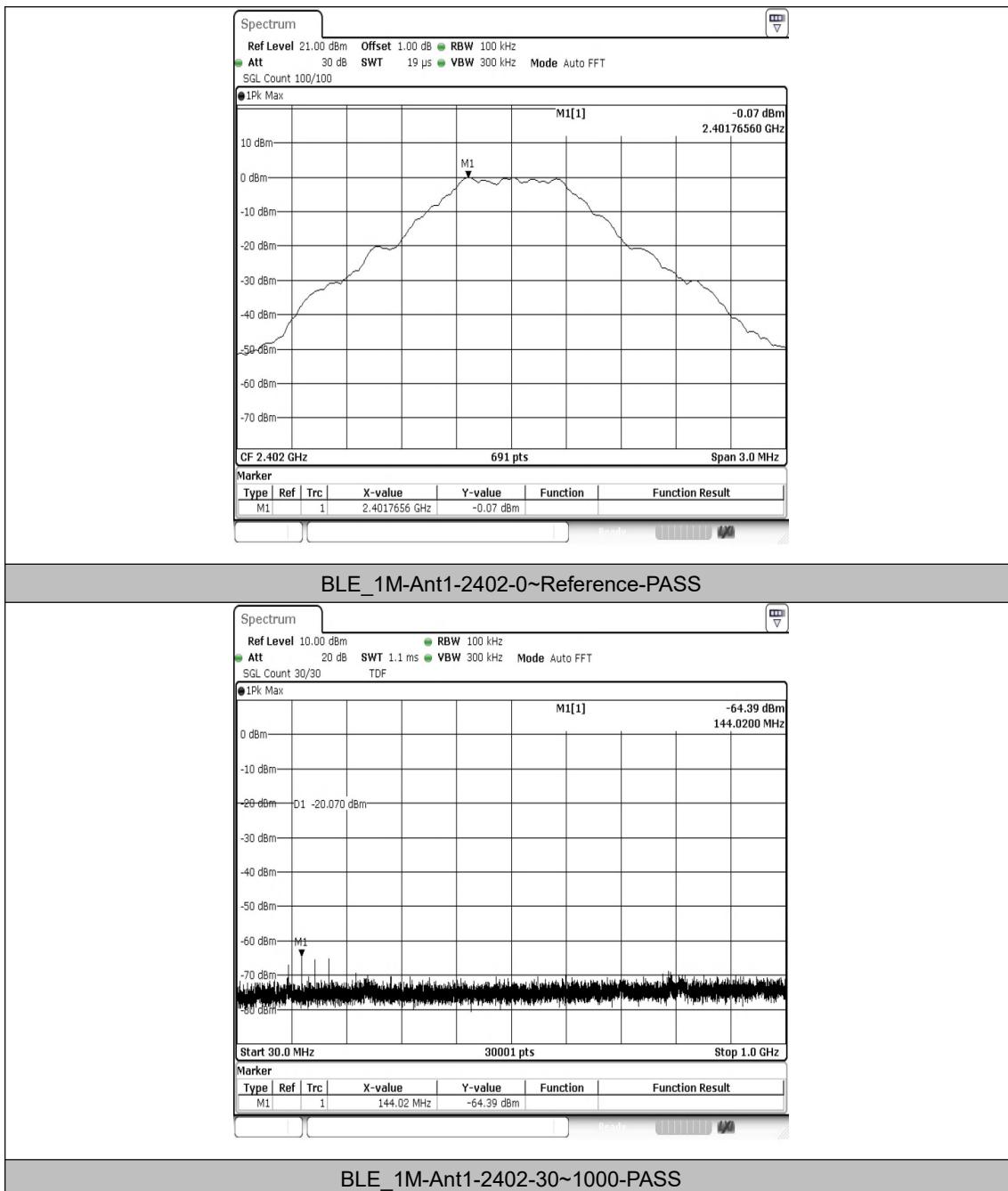
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-0.07	-0.07	---	PASS
BLE_1M	Ant1	2402	30~1000	-0.07	-64.39	≤-20.07	PASS
BLE_1M	Ant1	2402	1000~26500	-0.07	-39.57	≤-20.07	PASS
BLE_1M	Ant1	2440	0~Reference	-0.69	-0.69	---	PASS
BLE_1M	Ant1	2440	30~1000	-0.69	-65.02	≤-20.69	PASS
BLE_1M	Ant1	2440	1000~26500	-0.69	-40.67	≤-20.69	PASS
BLE_1M	Ant1	2480	0~Reference	-0.68	-0.68	---	PASS
BLE_1M	Ant1	2480	30~1000	-0.68	-63.74	≤-20.68	PASS
BLE_1M	Ant1	2480	1000~26500	-0.68	-40.03	≤-20.68	PASS
BLE_2M	Ant1	2402	0~Reference	-2.28	-2.28	---	PASS
BLE_2M	Ant1	2402	30~1000	-2.28	-59.99	≤-22.28	PASS
BLE_2M	Ant1	2402	1000~26500	-2.28	-42.52	≤-22.28	PASS
BLE_2M	Ant1	2440	0~Reference	0.17	0.17	---	PASS
BLE_2M	Ant1	2440	30~1000	0.17	-65.25	≤-19.83	PASS
BLE_2M	Ant1	2440	1000~26500	0.17	-42.55	≤-19.83	PASS
BLE_2M	Ant1	2480	0~Reference	-1.30	-1.30	---	PASS
BLE_2M	Ant1	2480	30~1000	-1.30	-64.27	≤-21.3	PASS
BLE_2M	Ant1	2480	1000~26500	-1.30	-41.61	≤-21.3	PASS

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

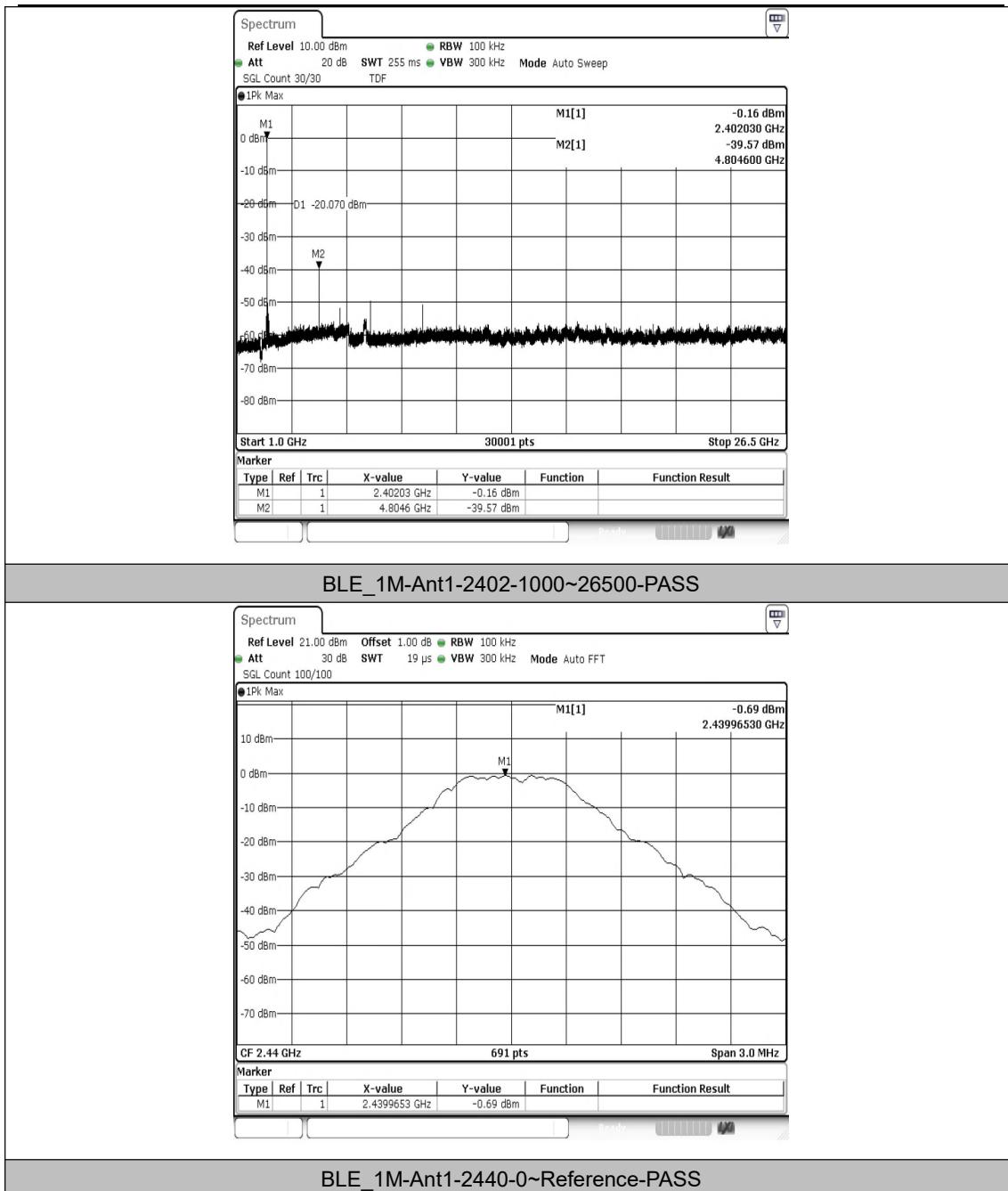
Test Graphs



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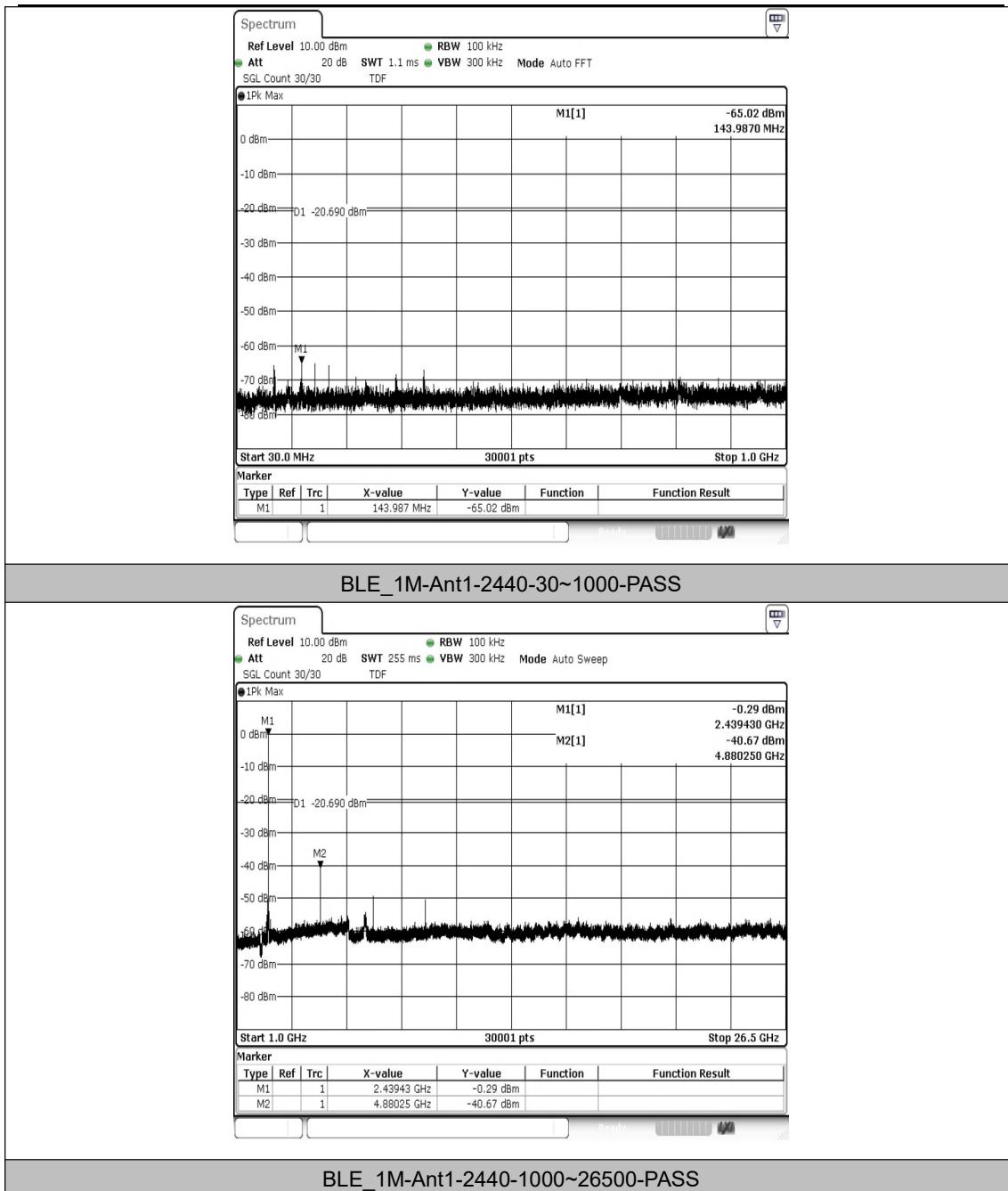
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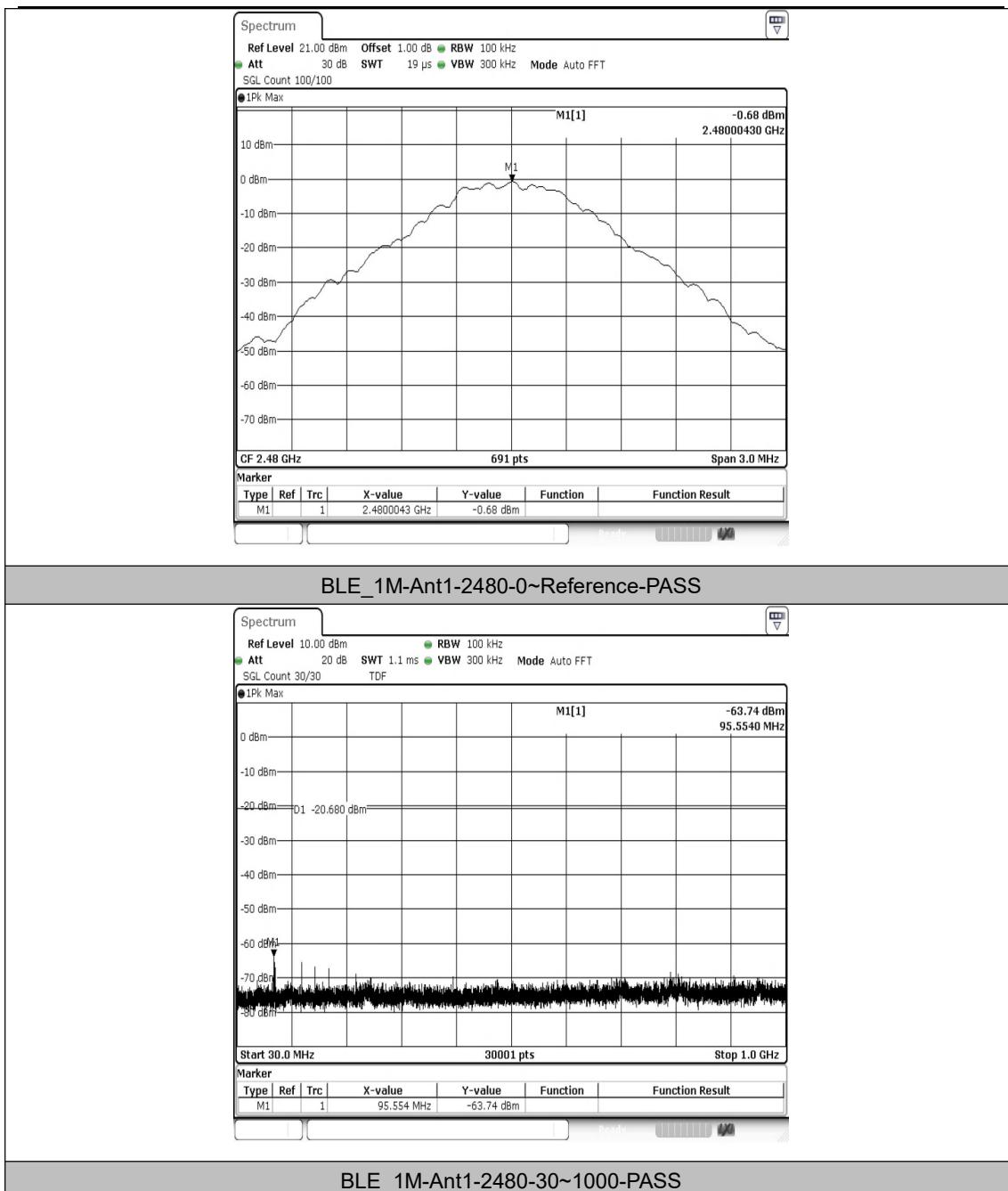
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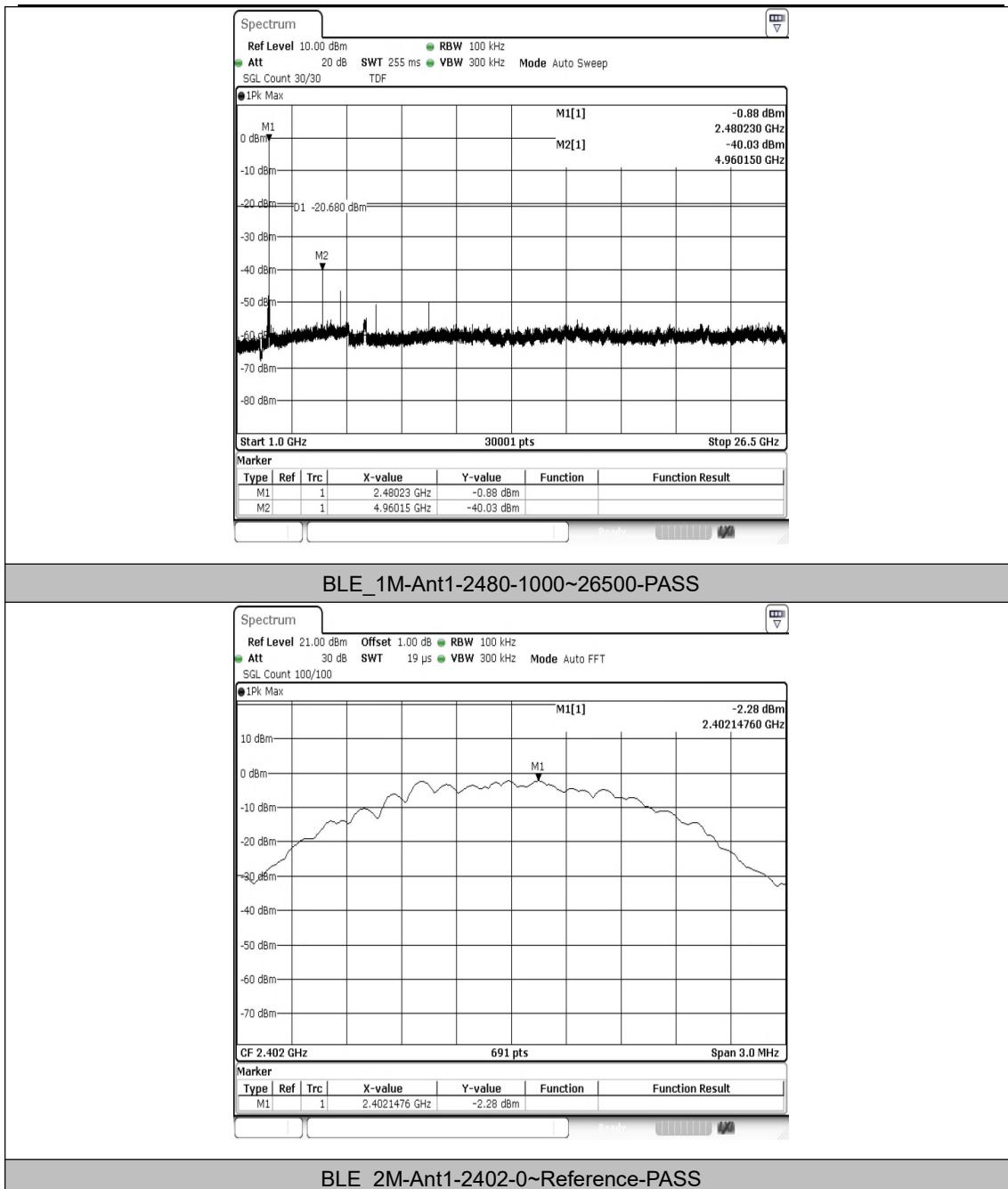
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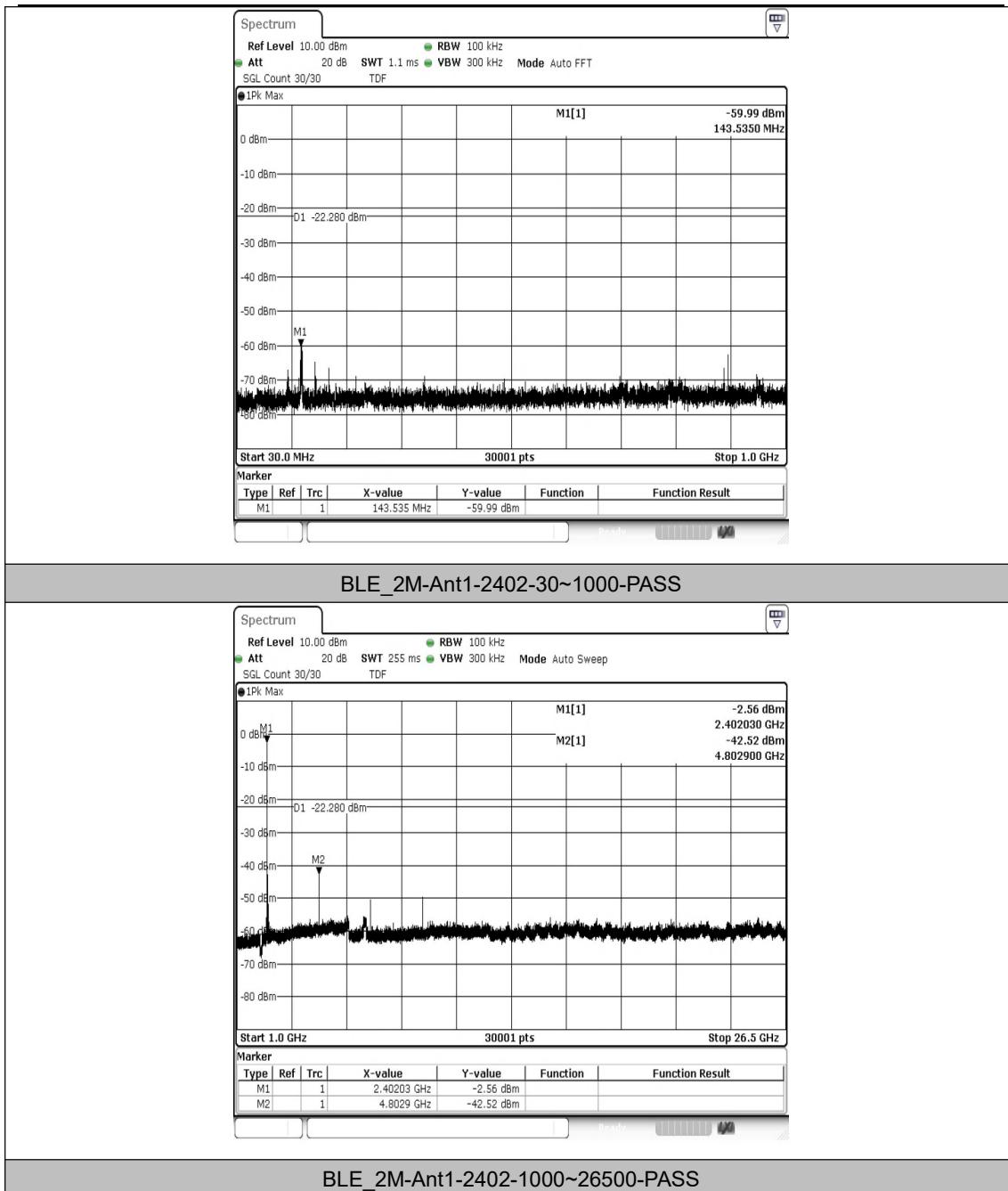
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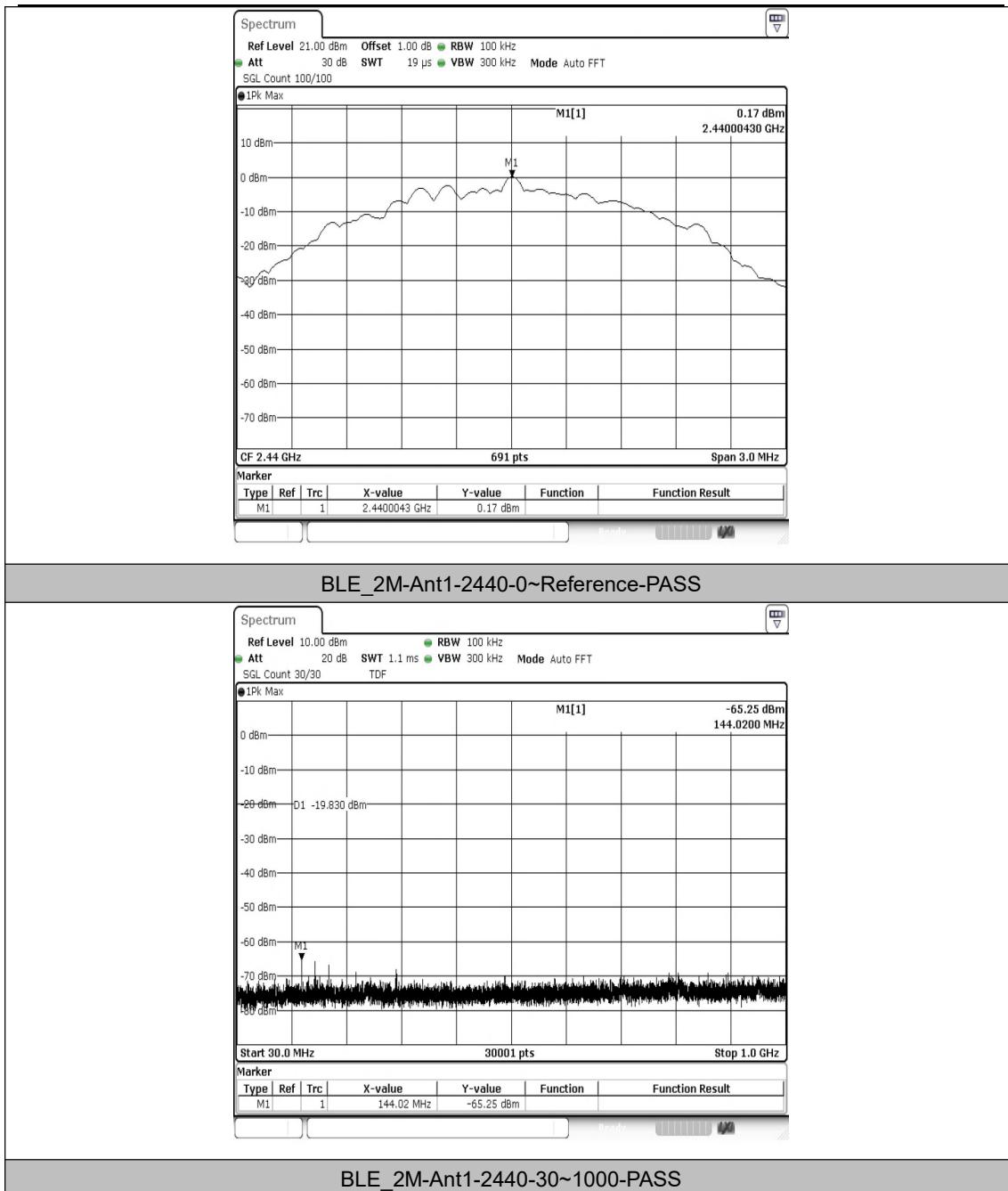
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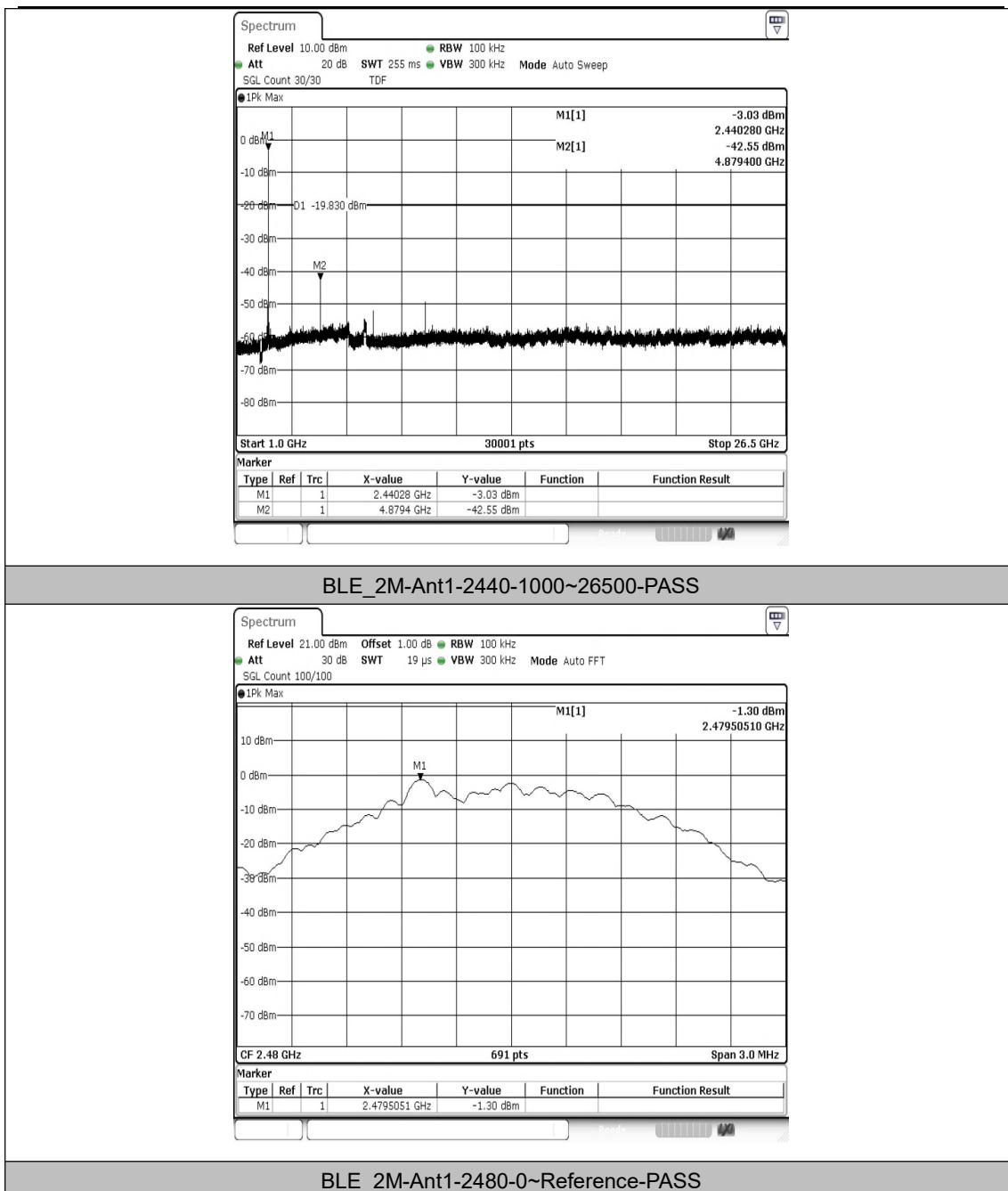
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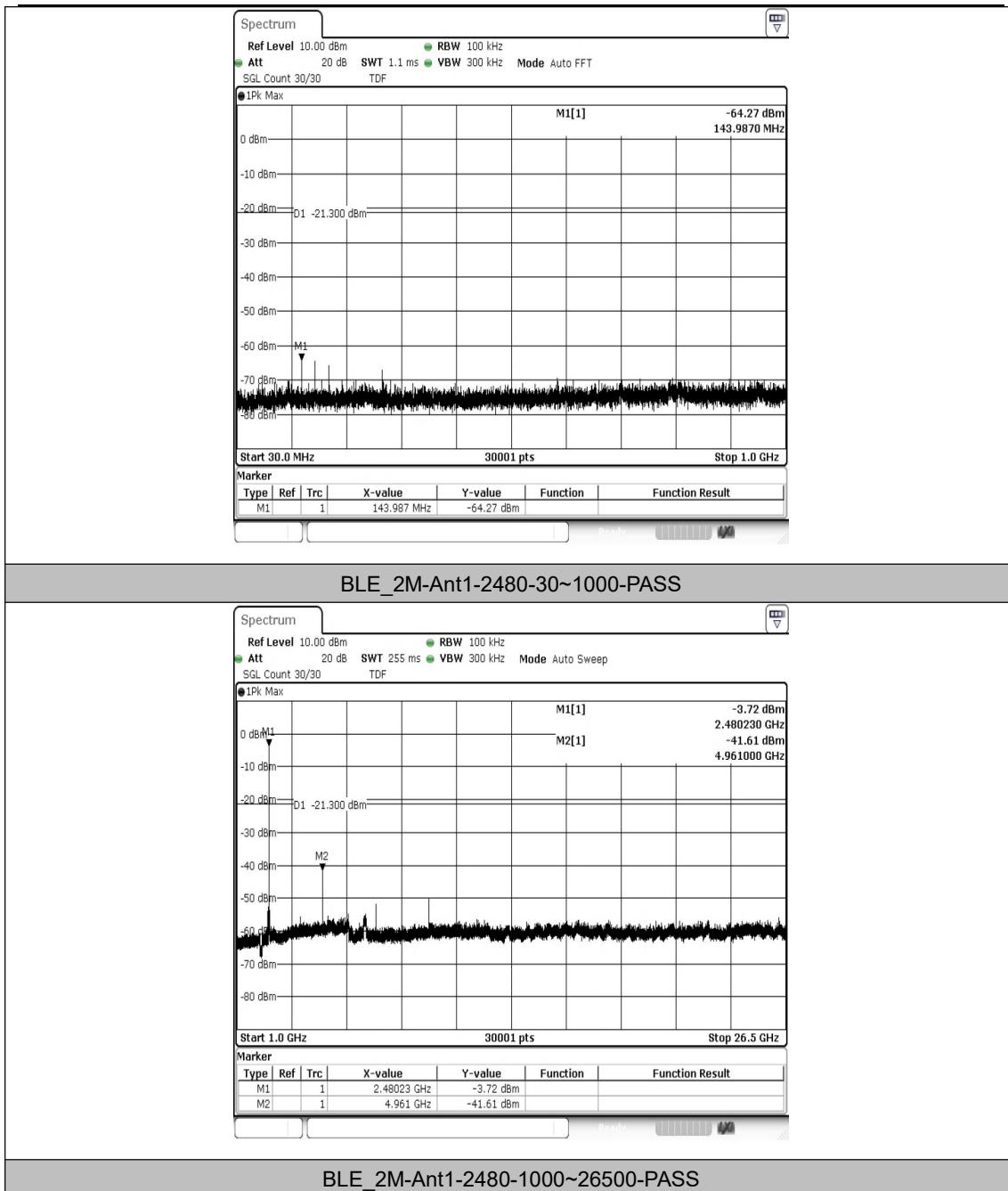
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Appendix G: Duty Cycle

Test Result

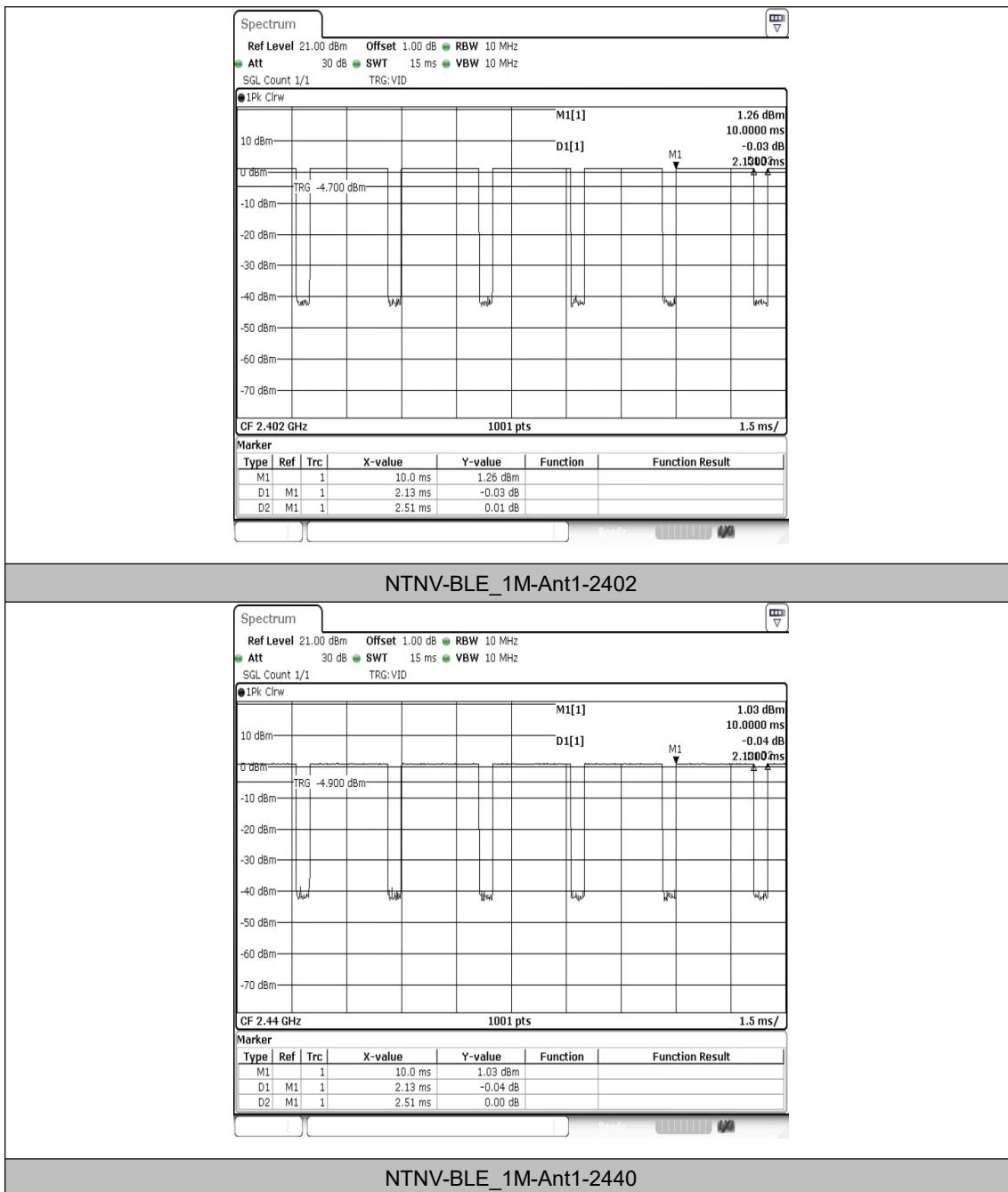
Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.13	2.51	84.86	0.71
BLE_1M	Ant1	2440	2.13	2.51	84.86	0.71
BLE_1M	Ant1	2480	2.13	2.50	85.20	0.70
BLE_2M	Ant1	2402	1.08	2.50	43.20	3.65
BLE_2M	Ant1	2440	1.08	2.50	43.20	3.65
BLE_2M	Ant1	2480	1.08	2.50	43.20	3.65

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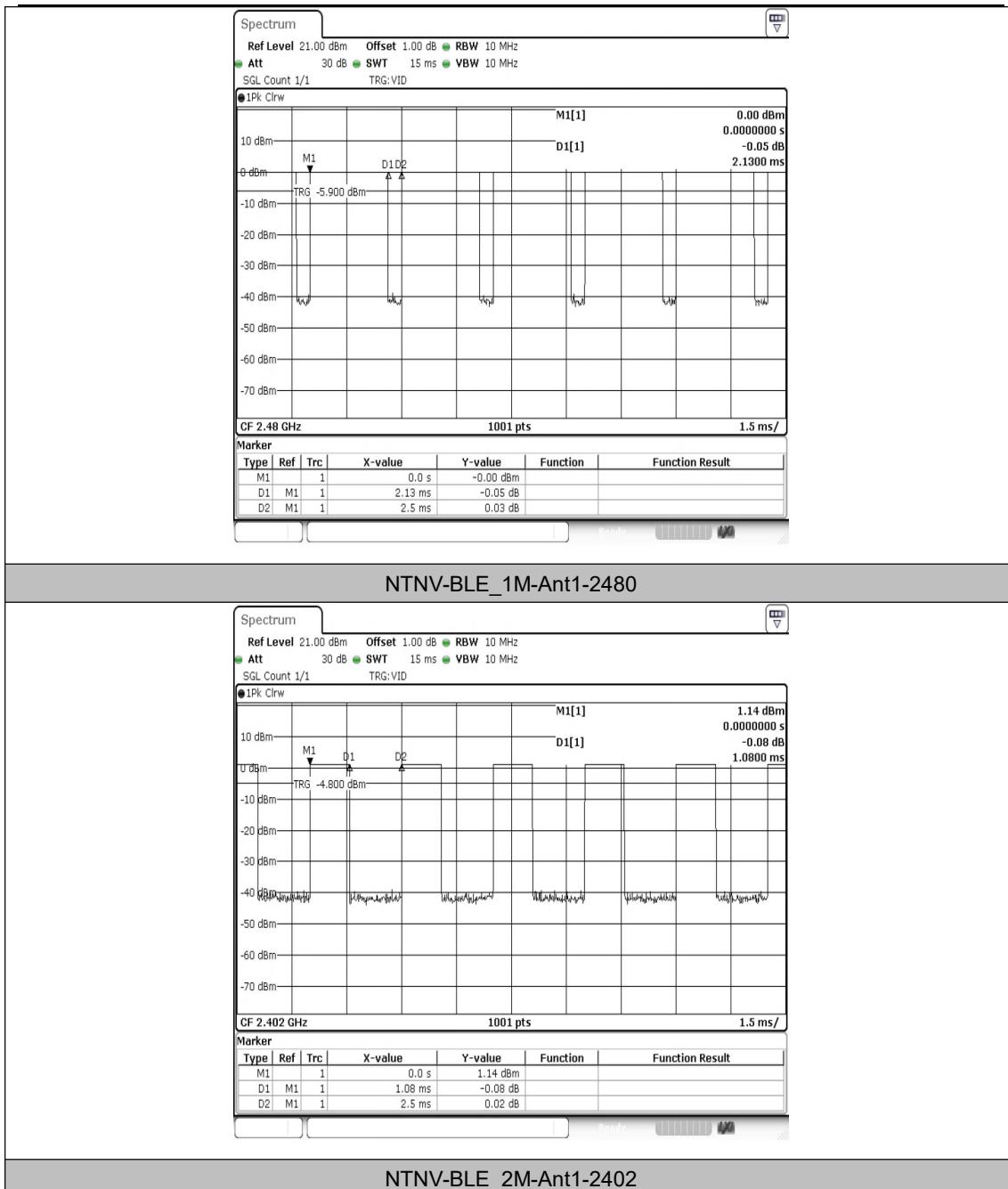
Test Graphs



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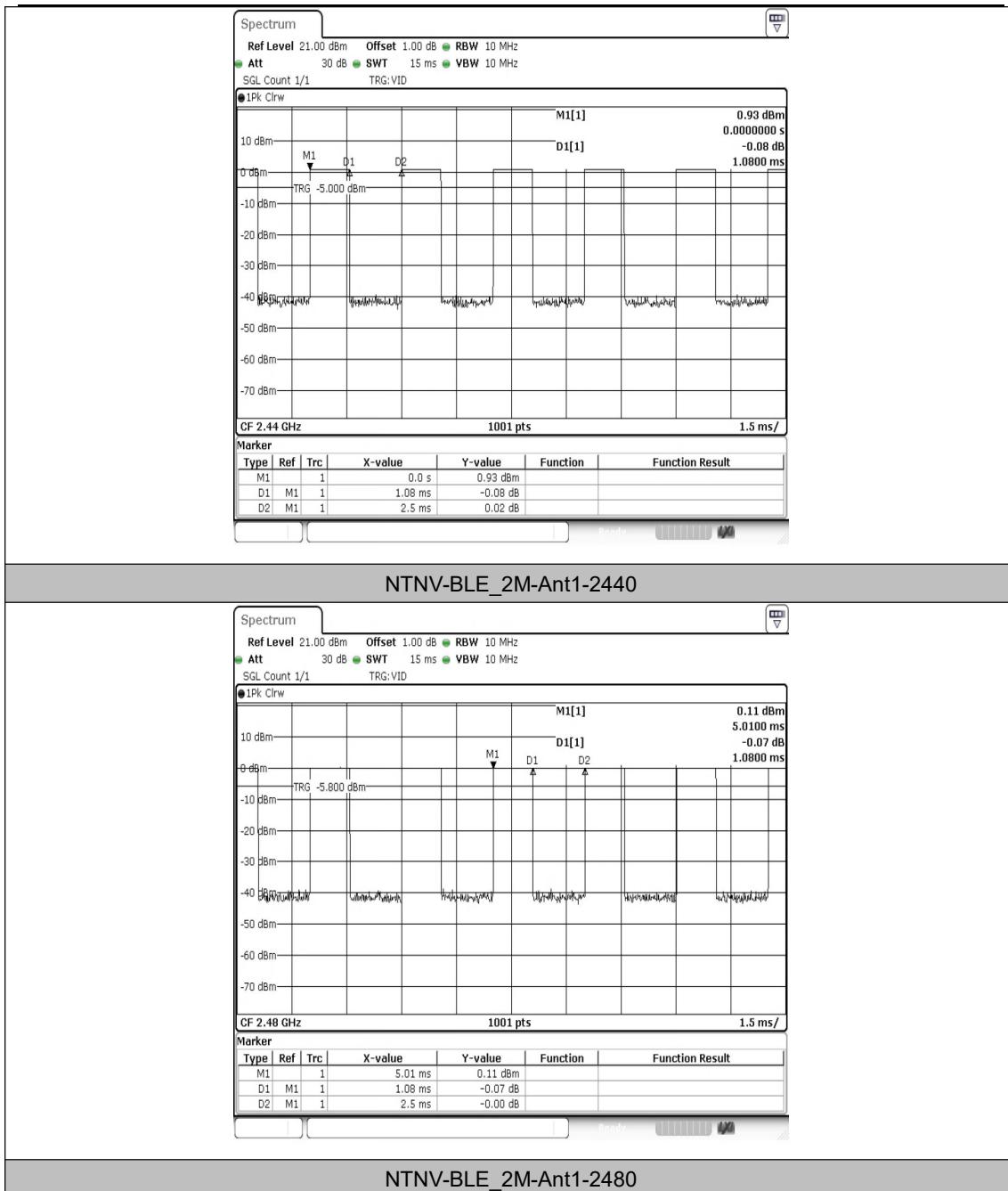
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