



Appendix B

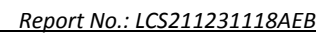
RF Test Data for BLE (Conducted Measurement)

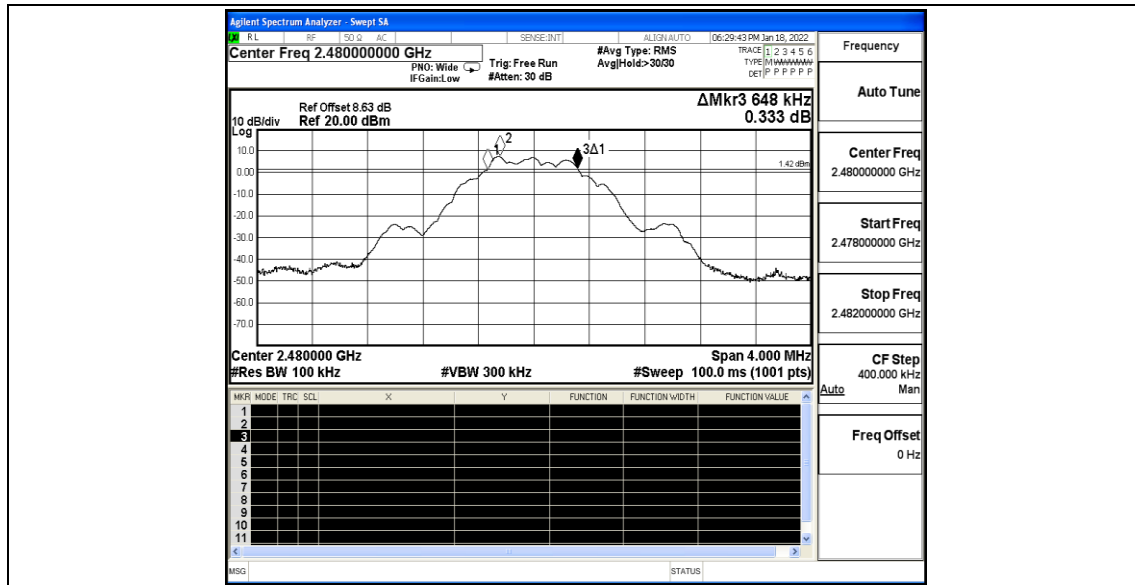
Product Name: WEBOS SMART TV

Test Model: PTVWEB75UHD

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Mark Chen
Supervised by:	Libin







B.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	7.65	≤30	PASS
		2440	7.75	≤30	PASS
		2480	7.72	≤30	PASS

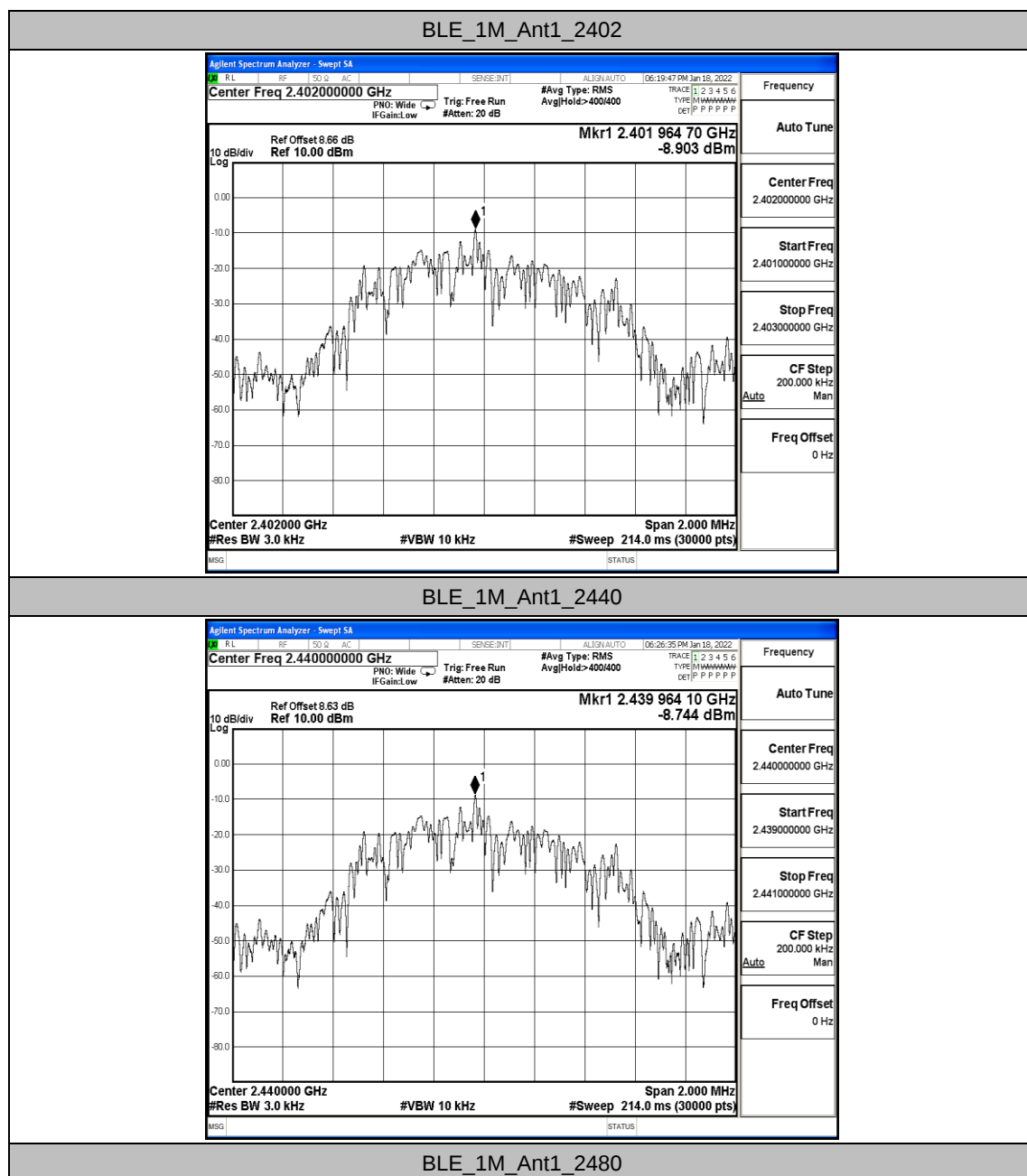


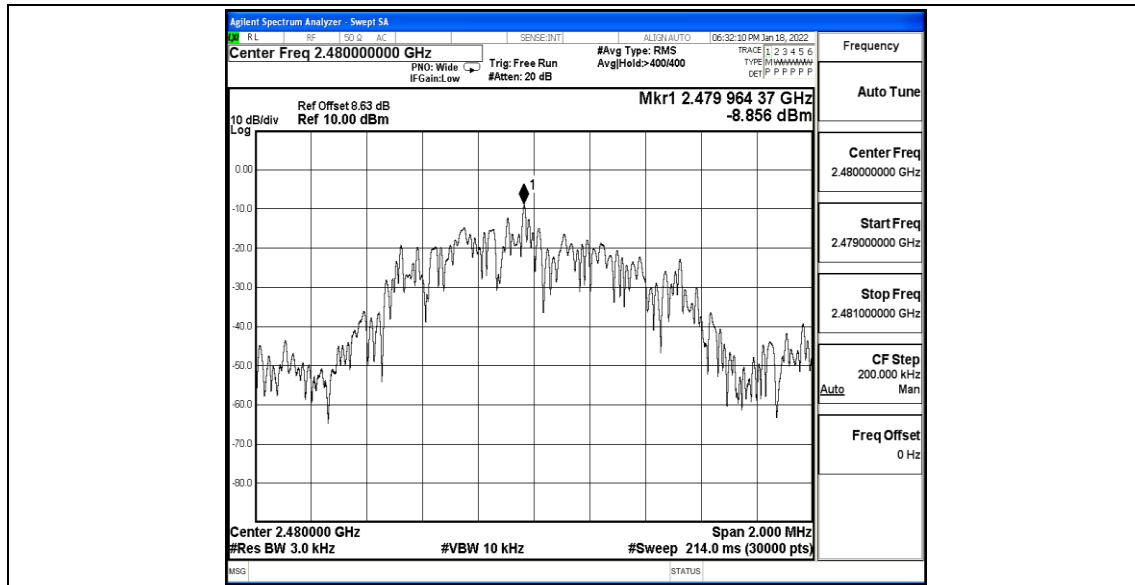
B.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-8.9	≤8.00	PASS
		2440	-8.74	≤8.00	PASS
		2480	-8.86	≤8.00	PASS

Test Graphs





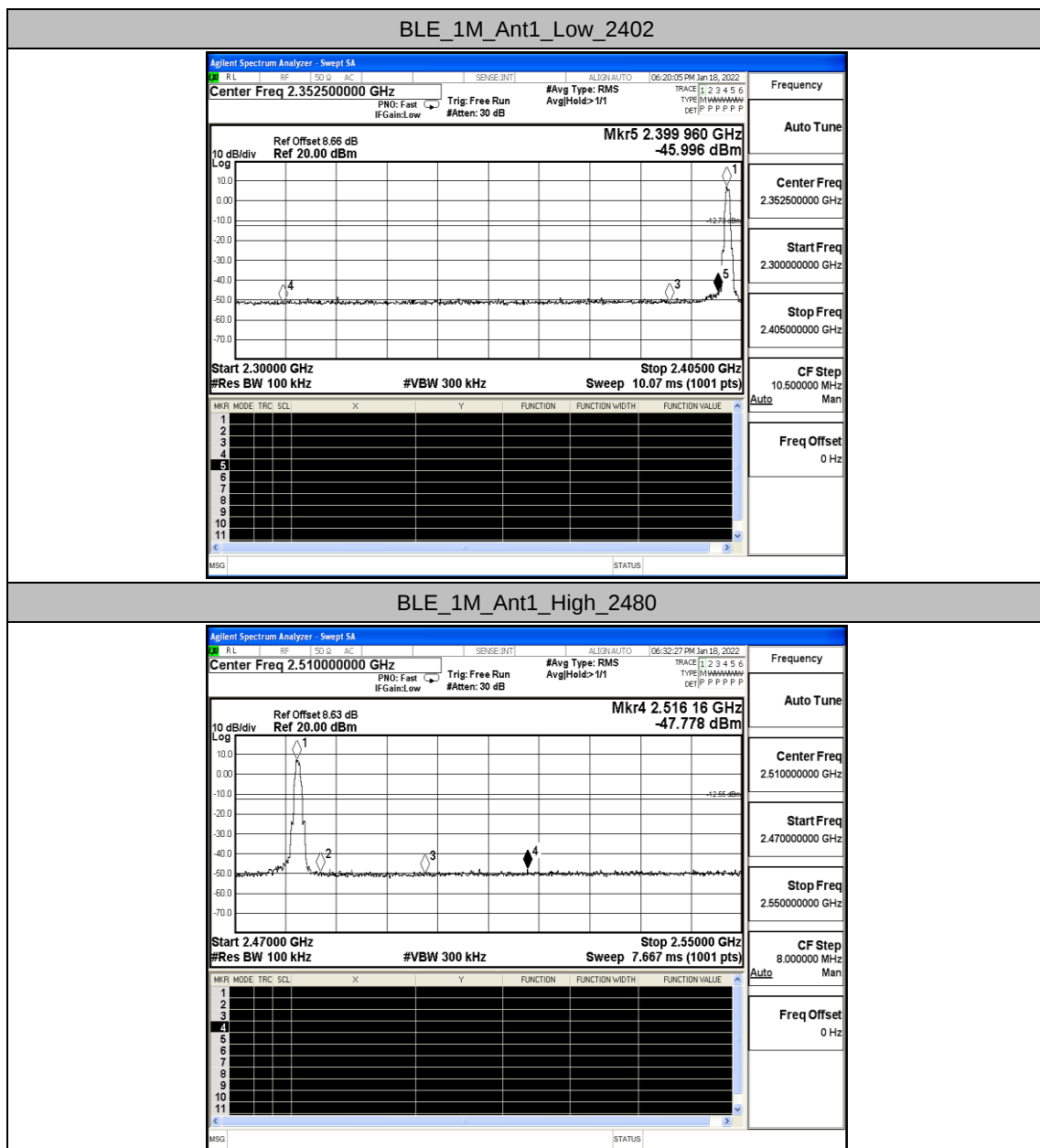


B.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	7.28	-46	≤-12.73	PASS
		High	2480	7.45	-47.78	≤-12.55	PASS

Test Graphs





B.5 Conducted Spurious Emission

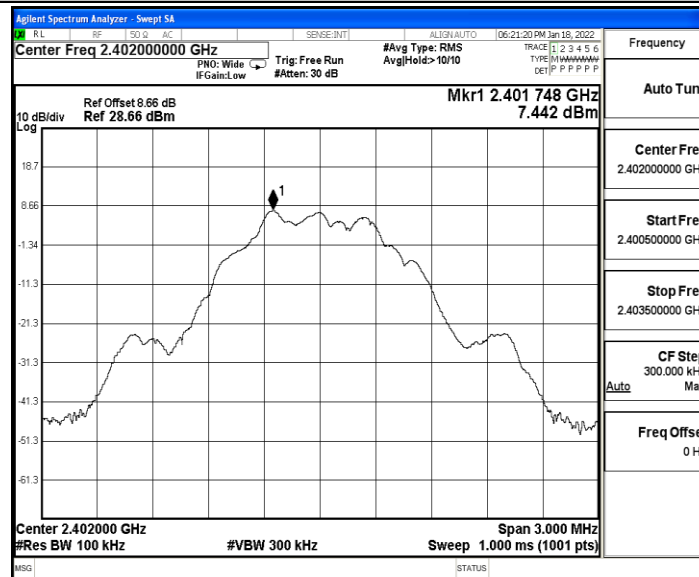
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	7.44	7.44	---	PASS
			30~1000	7.44	-59	≤ -12.56	PASS
			1000~26500	7.44	-45.63	≤ -12.56	PASS
		2440	Reference	7.60	7.60	---	PASS
			30~1000	7.60	-60.61	≤ -12.4	PASS
			1000~26500	7.60	-45.72	≤ -12.4	PASS
		2480	Reference	7.34	7.34	---	PASS
			30~1000	7.34	-60.63	≤ -12.66	PASS
			1000~26500	7.34	-45.74	≤ -12.66	PASS

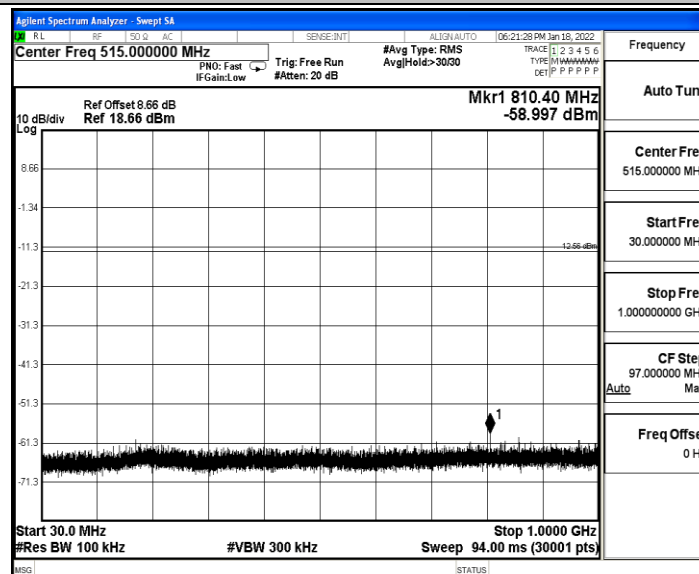


Test Graphs

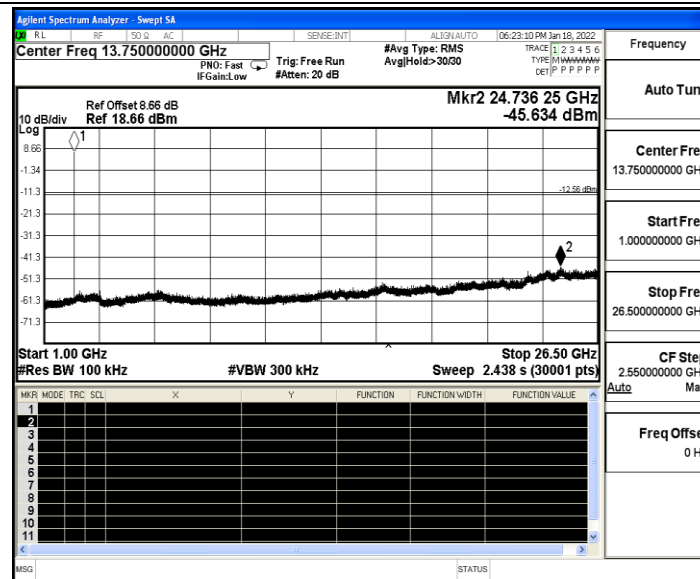
BLE_1M_Ant1_2402_0~Reference



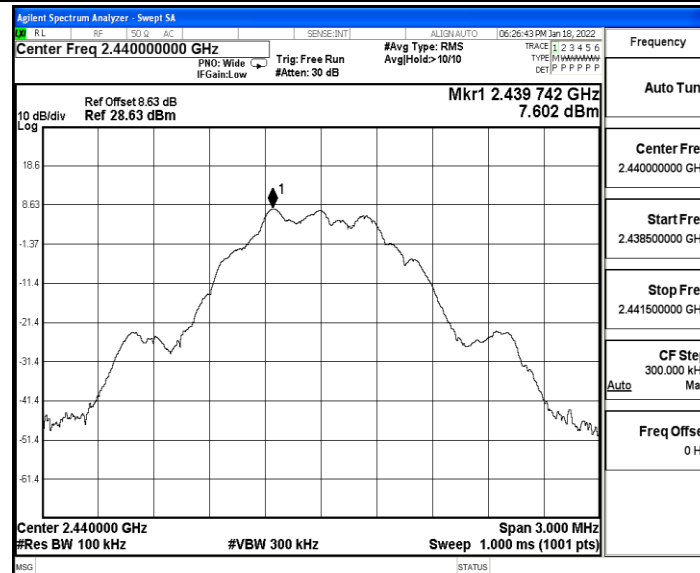
BLE_1M_Ant1_2402_30~1000



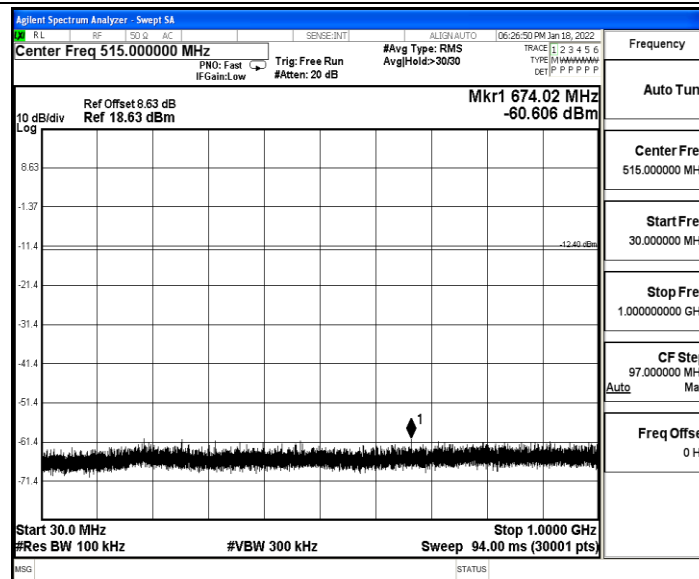
BLE_1M_Ant1_2402_1000~26500



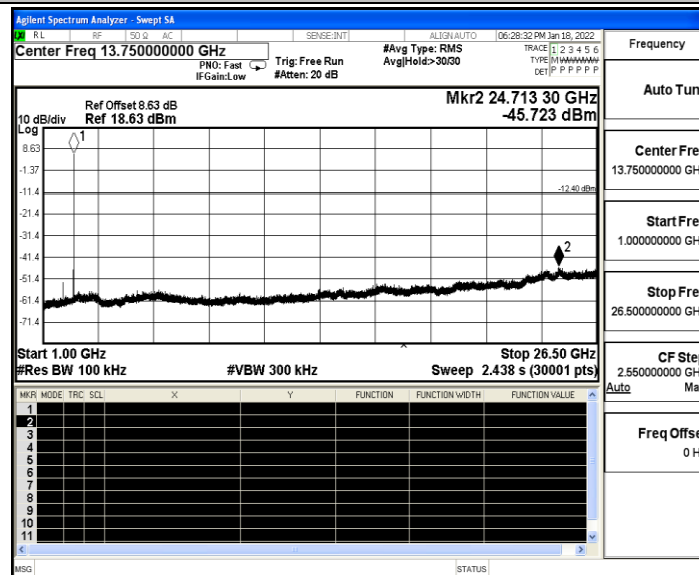
BLE_1M_Ant1_2440_0~Reference



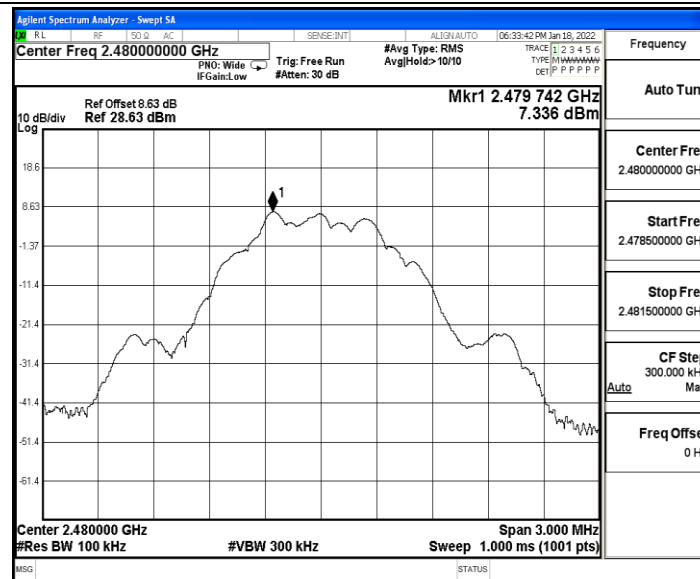
BLE_1M_Ant1_2440_30~1000



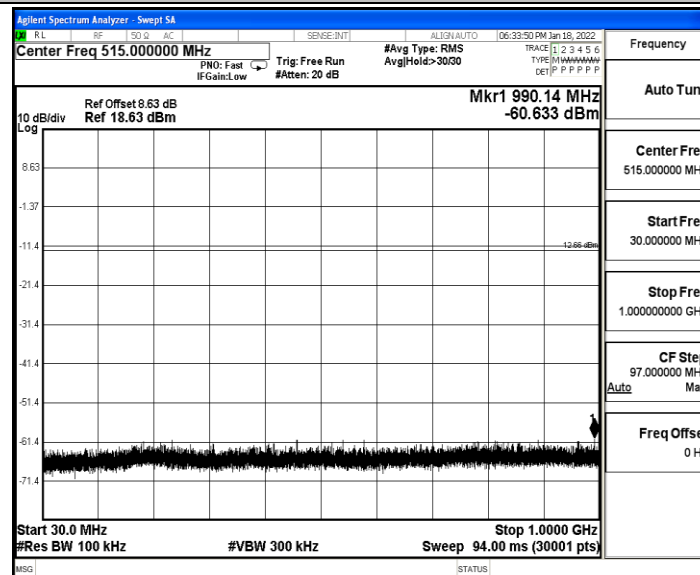
BLE_1M_Ant1_2440_1000~26500



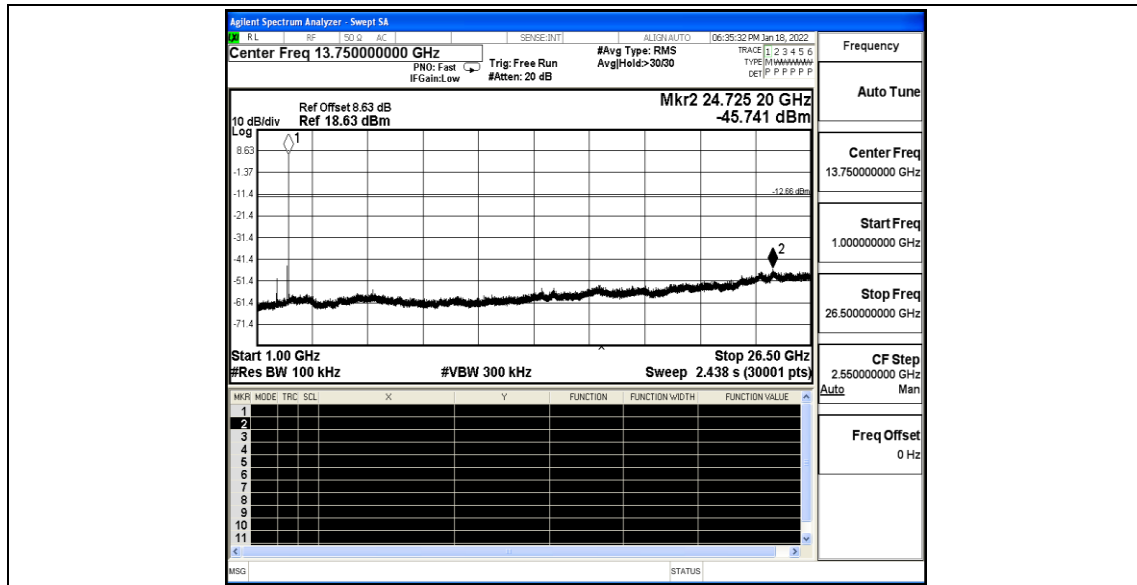
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



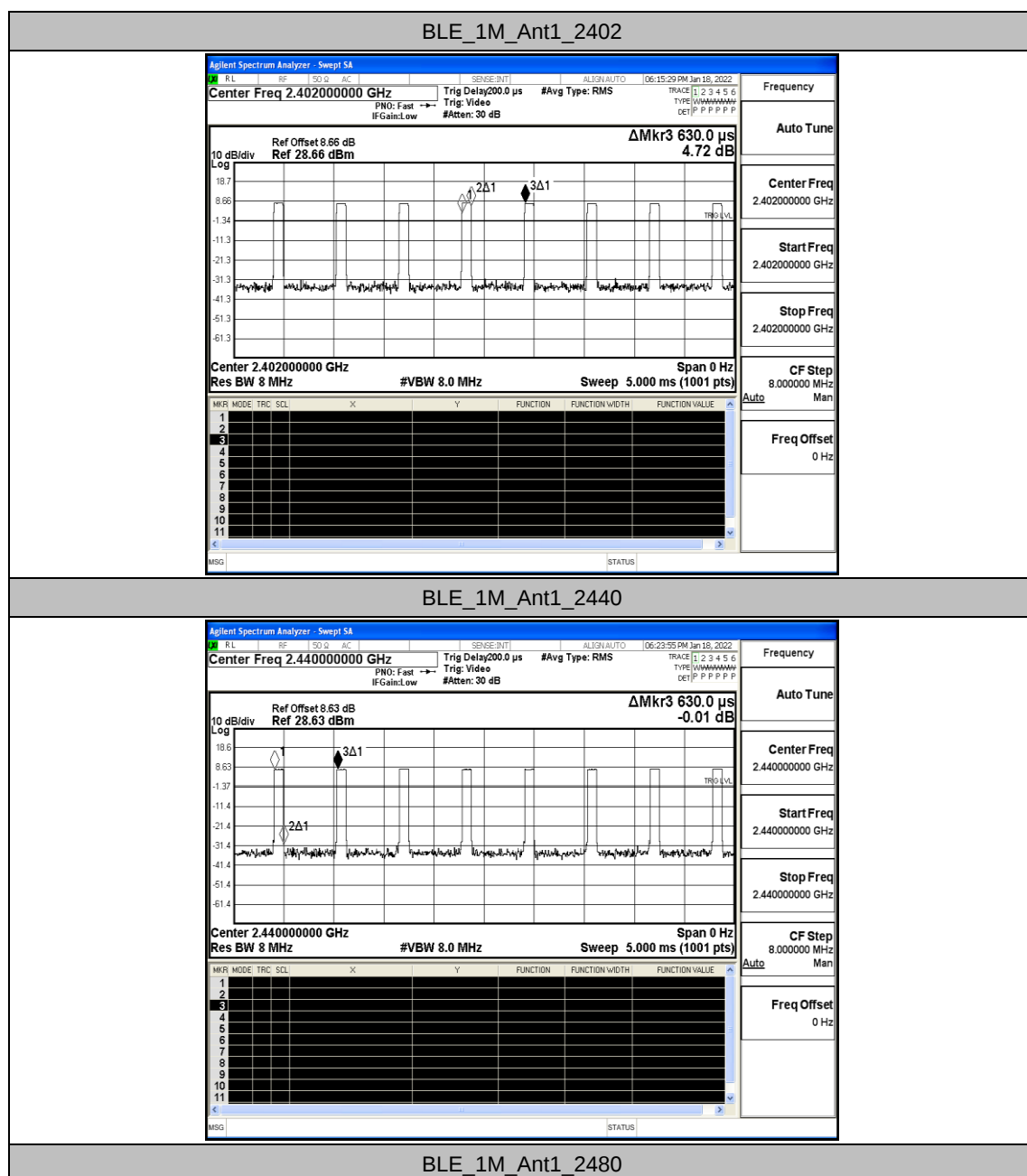


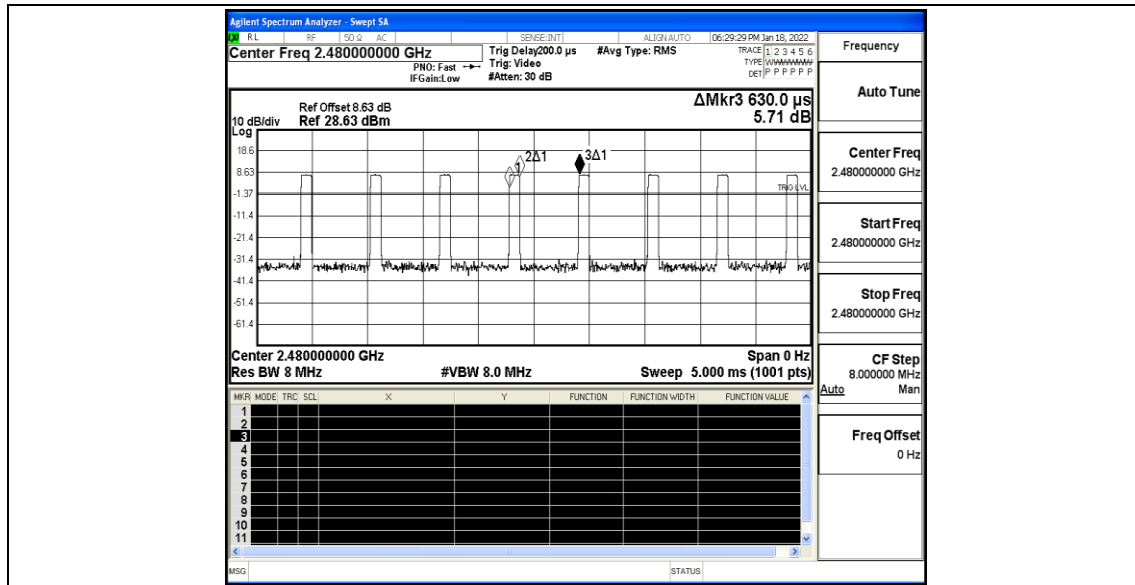
B.6 Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	0.09	0.63	0.1429	14.29	8.45	---	---
		2440	0.09	0.63	0.1429	14.29	8.45	---	---
		2480	0.09	0.63	0.1429	14.29	8.45	---	---

Test Graphs







B.7 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-46.48	≤-41.20	48.72	≤54	PASS
				AV	2389.670	-44.89	≤-41.20	50.31	≤54	PASS
				AV	2390.000	-46.05	≤-41.20	49.15	≤54	PASS
				Peak	2310.000	-37.83	≤-21.20	57.37	≤74	PASS
				Peak	2380.955	-36.49	≤-21.20	58.71	≤74	PASS
				Peak	2390.000	-37.75	≤-21.20	57.45	≤74	PASS
		High	2480	AV	2483.500	-44.48	≤-41.20	50.72	≤54	PASS
				AV	2484.320	-43.96	≤-41.20	51.24	≤54	PASS
				AV	2500.000	-45.66	≤-41.20	49.54	≤54	PASS
				Peak	2483.500	-36.52	≤-21.20	58.68	≤74	PASS
				Peak	2485.200	-33.99	≤-21.20	61.21	≤74	PASS
				Peak	2500.000	-37.65	≤-21.20	57.55	≤74	PASS

Note:

1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



Test Graphs

