



Appendix B

RF Test Data for BLE (Conducted Measurement)

Product Name: Smart TV Box

Test Model: T95MAX+

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Bill Zhu
Supervised by:	Li Huan





B.1 6dB Bandwidth

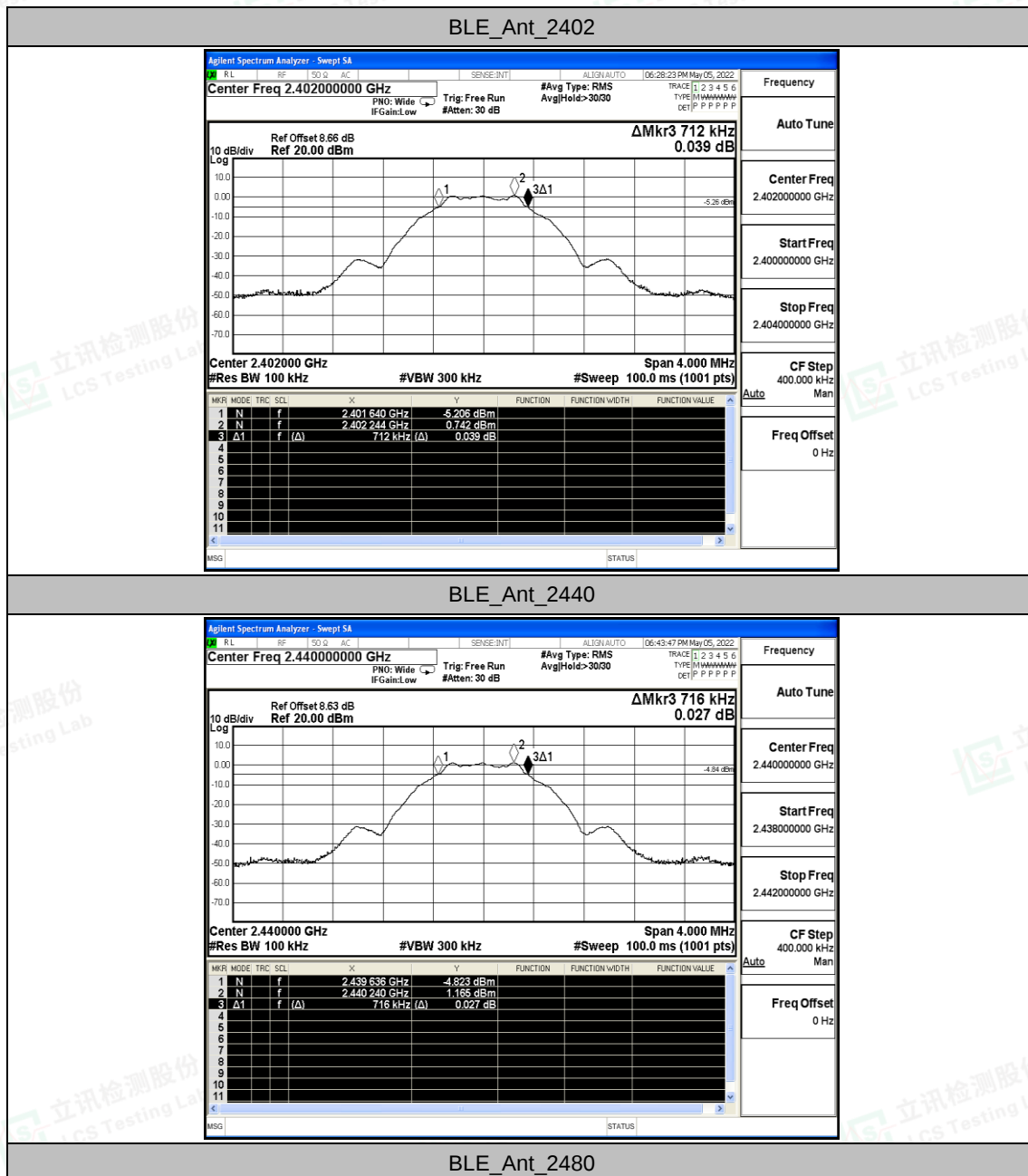
Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant	2402	0.712	2401.640	2402.352	0.5	PASS
		2440	0.716	2439.636	2440.352	0.5	PASS
		2480	0.712	2479.640	2480.352	0.5	PASS





Test Graphs

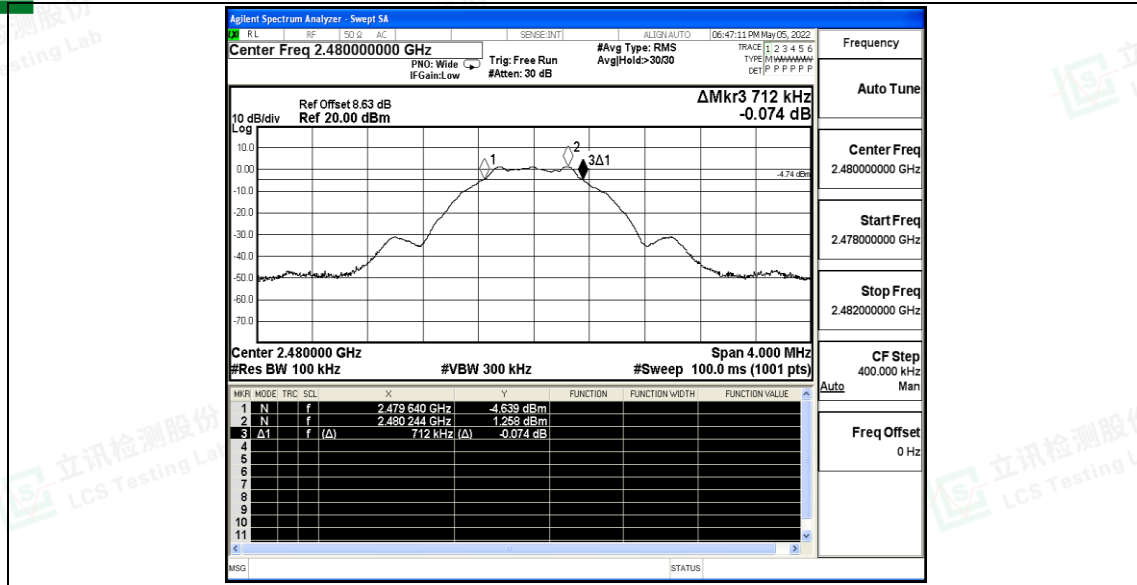


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B.2 Maximum conducted output power

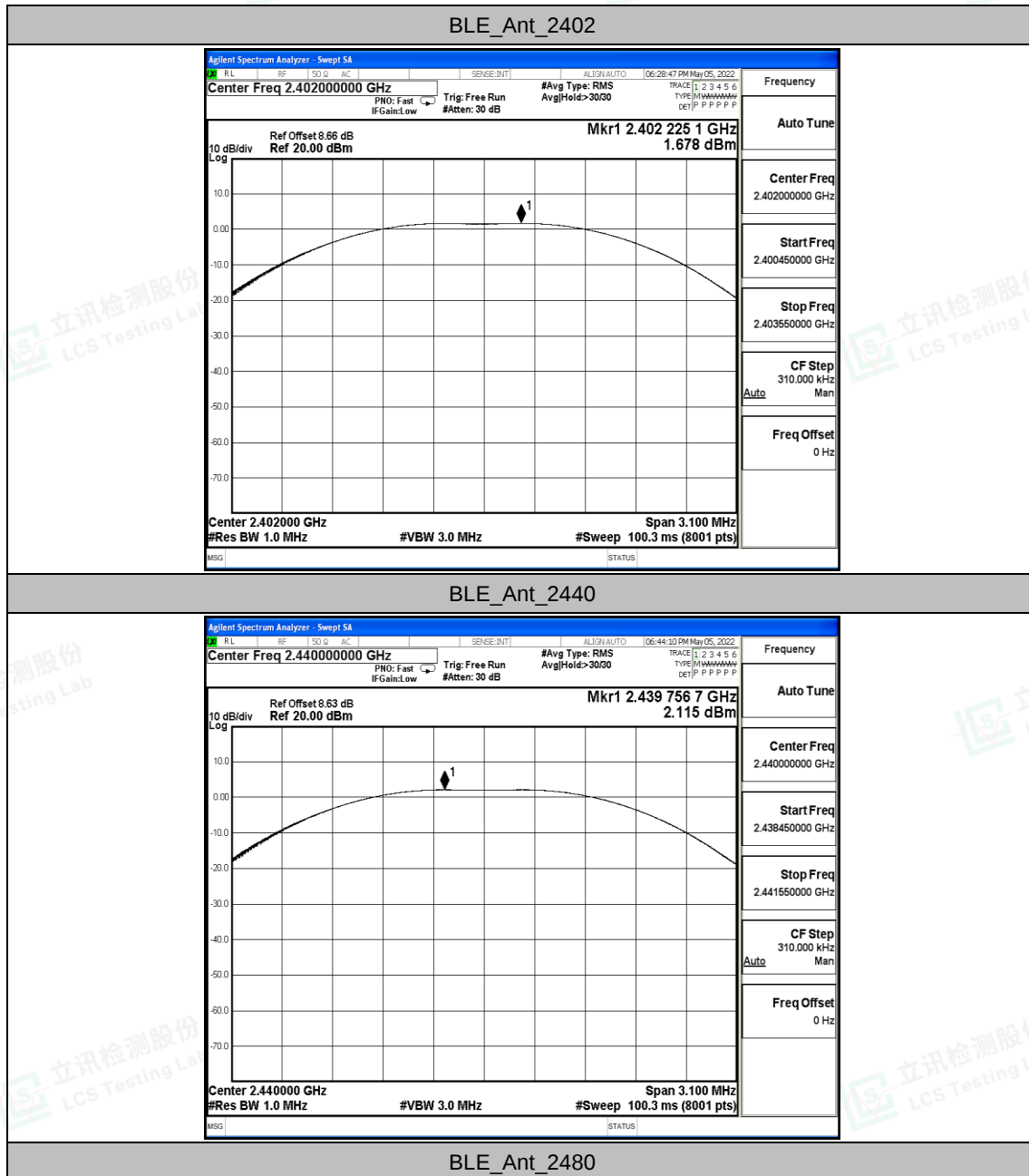
Test Result

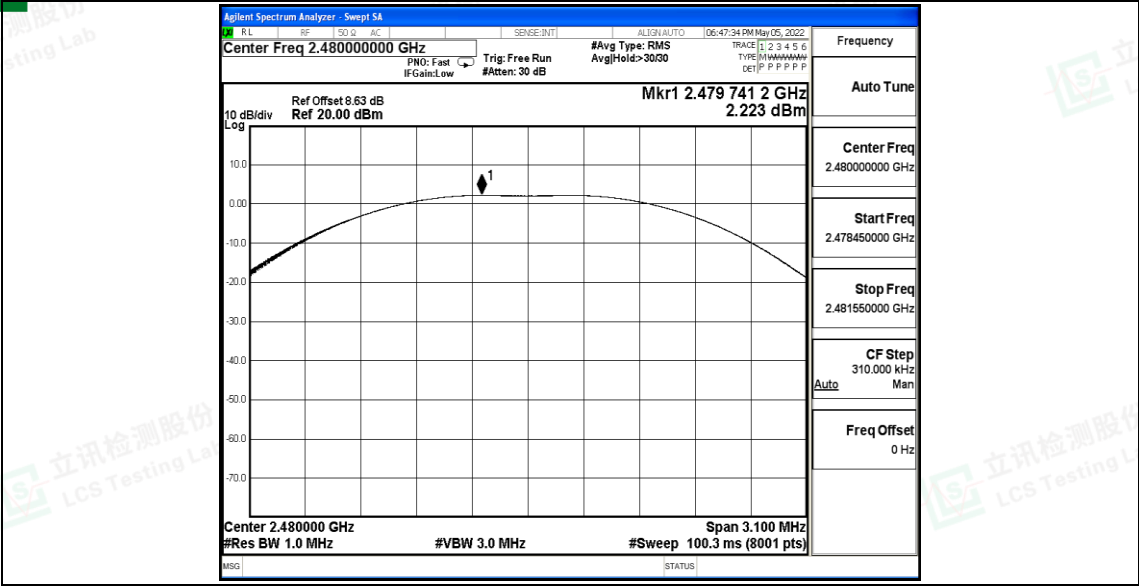
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant	2402	1.68	≤30	PASS
		2440	2.12	≤30	PASS
		2480	2.22	≤30	PASS





Test Graphs







B.3 Maximum power spectral density

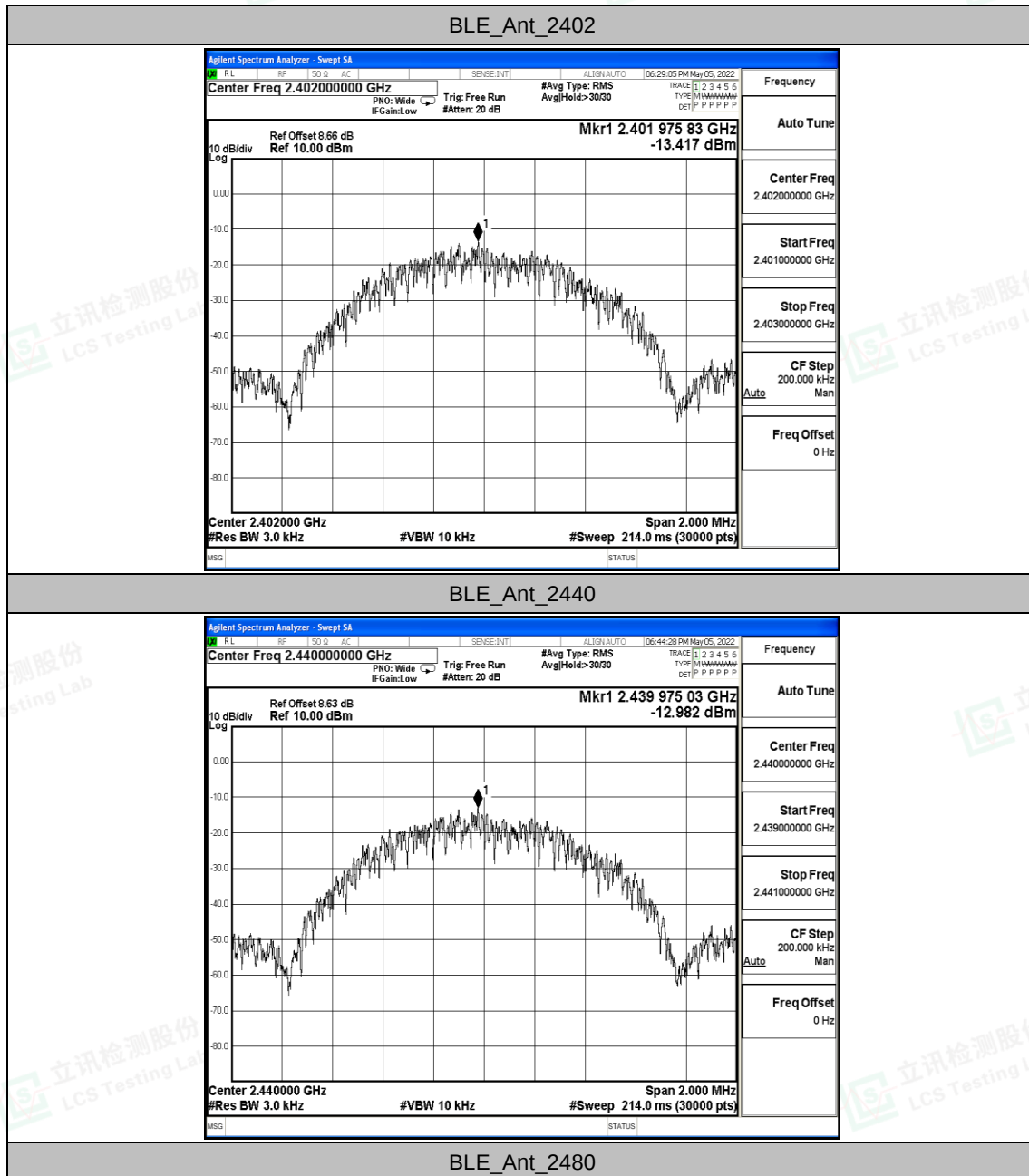
Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant	2402	-13.42	≤8.00	PASS
		2440	-12.98	≤8.00	PASS
		2480	-12.86	≤8.00	PASS





Test Graphs

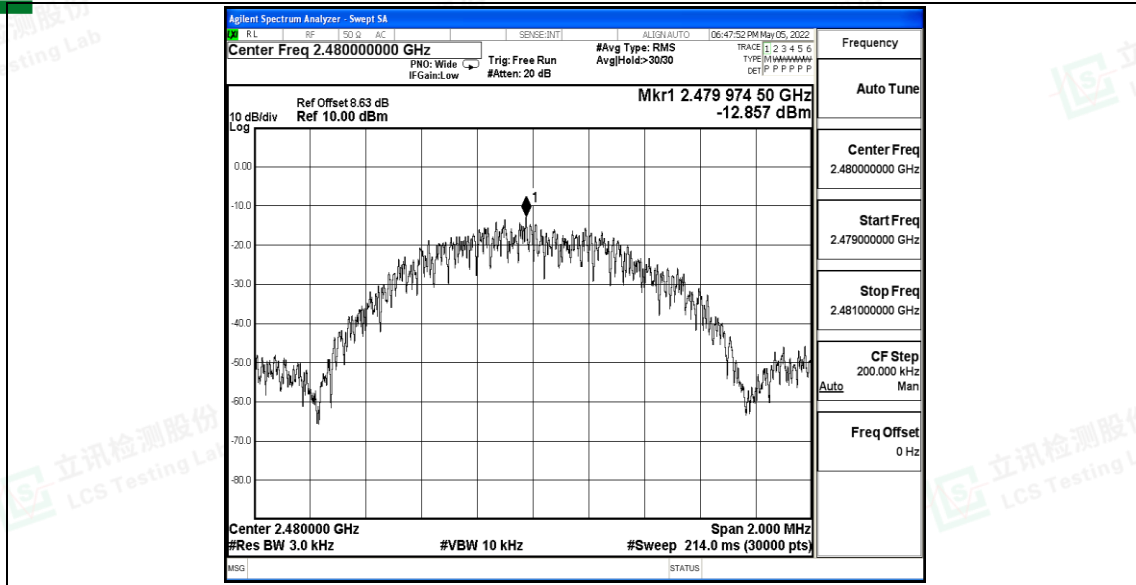


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B.4 Band edge measurements

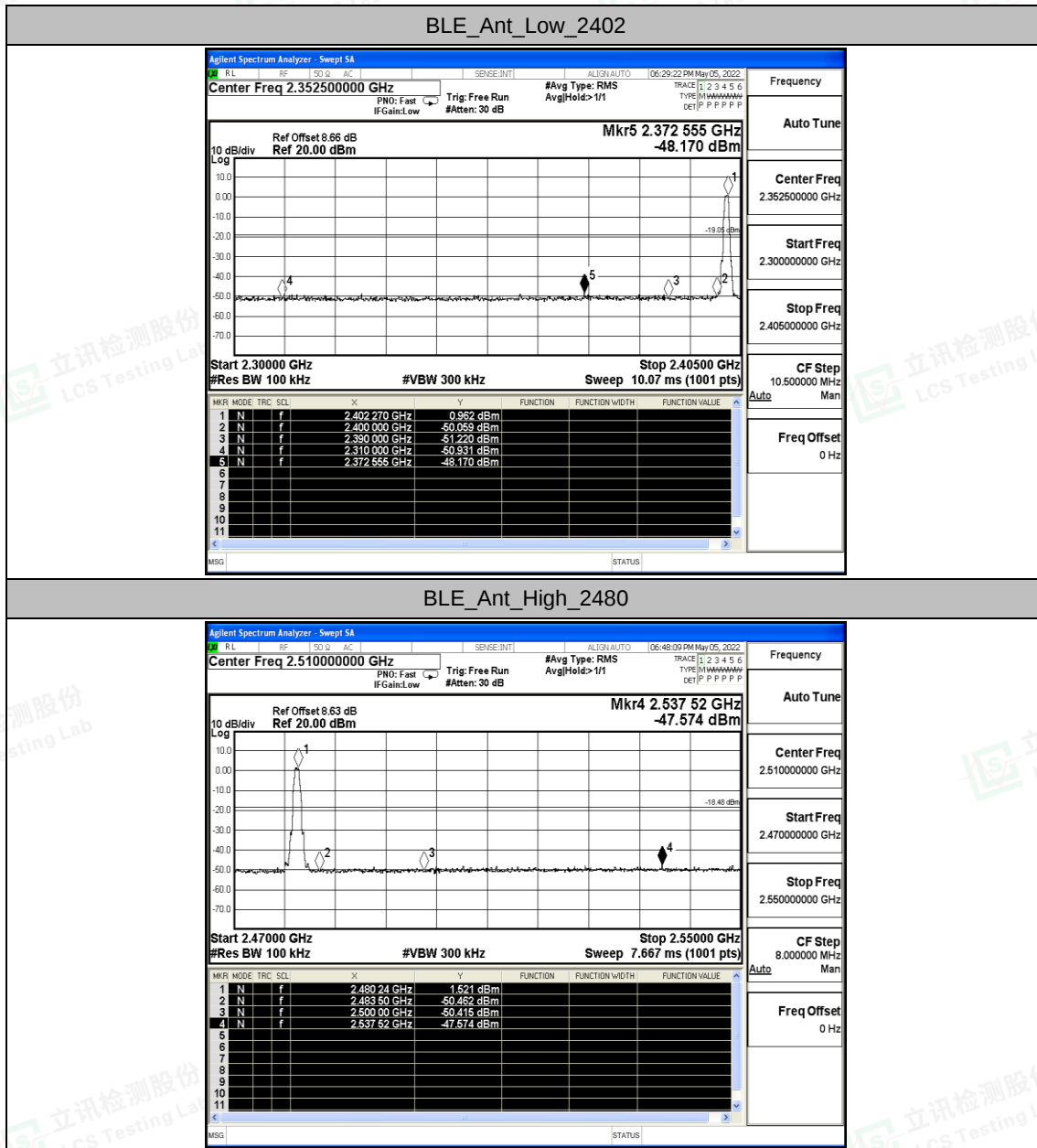
Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant	Low	2402	0.95	-48.17	≤-19.05	PASS
		High	2480	1.52	-47.57	≤-18.48	PASS





Test Graphs



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B.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant	2402	Reference	0.72	0.72	---	PASS
			30~1000	0.72	-39.55	≤-19.28	PASS
			1000~26500	0.72	-45.41	≤-19.28	PASS
		2440	Reference	1.16	1.16	---	PASS
			30~1000	1.16	-53.42	≤-18.84	PASS
			1000~26500	1.16	-46.32	≤-18.84	PASS
		2480	Reference	1.27	1.27	---	PASS
			30~1000	1.27	-53.18	≤-18.73	PASS
			1000~26500	1.27	-46.03	≤-18.73	PASS



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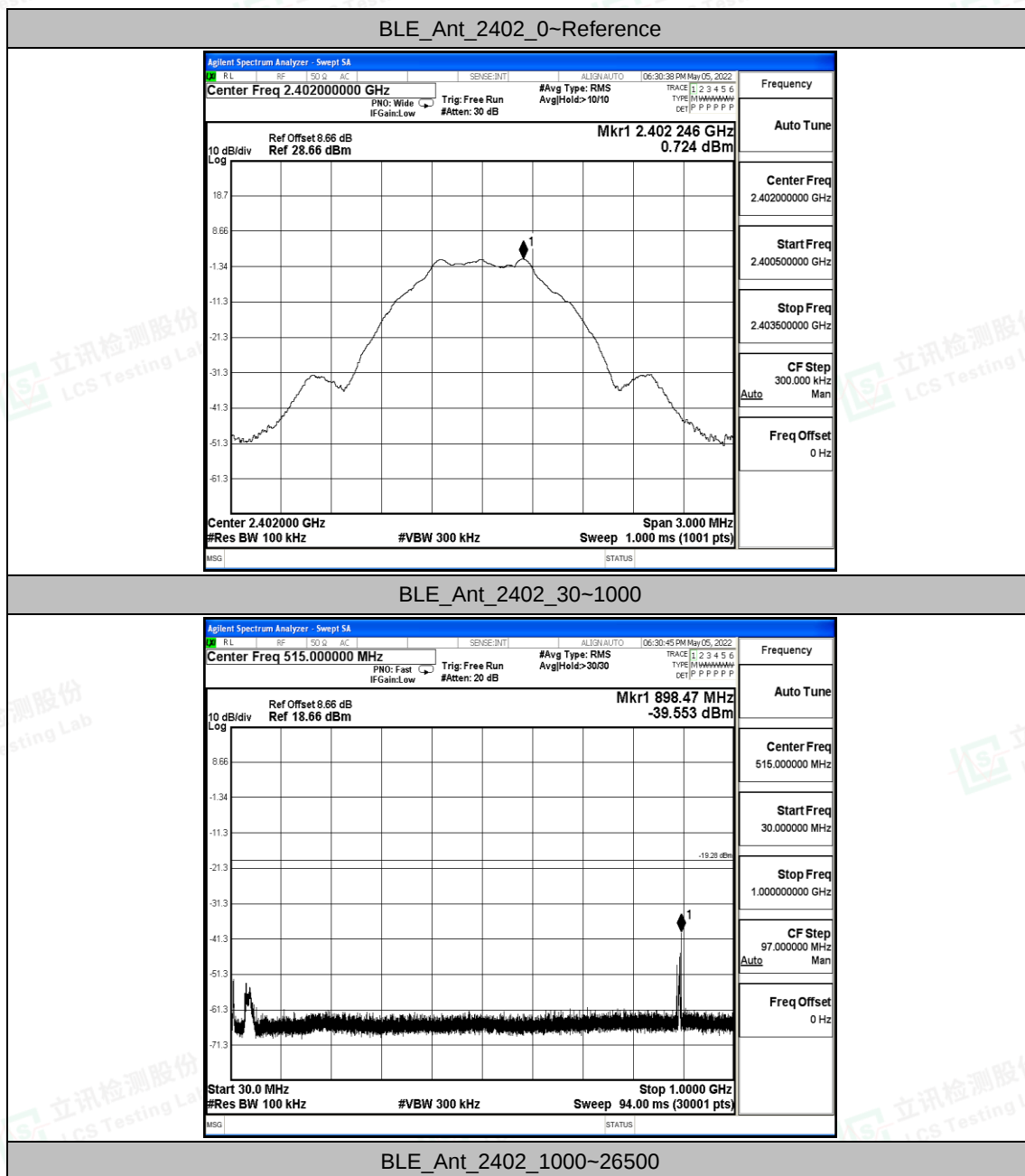
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Test Graphs

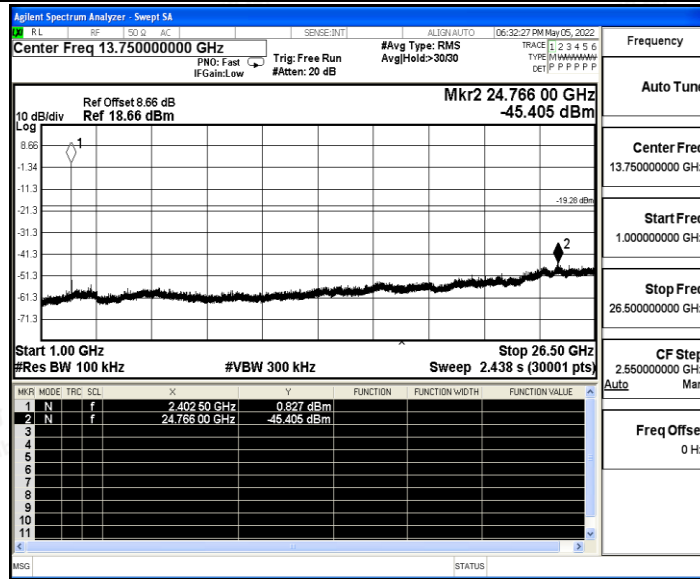


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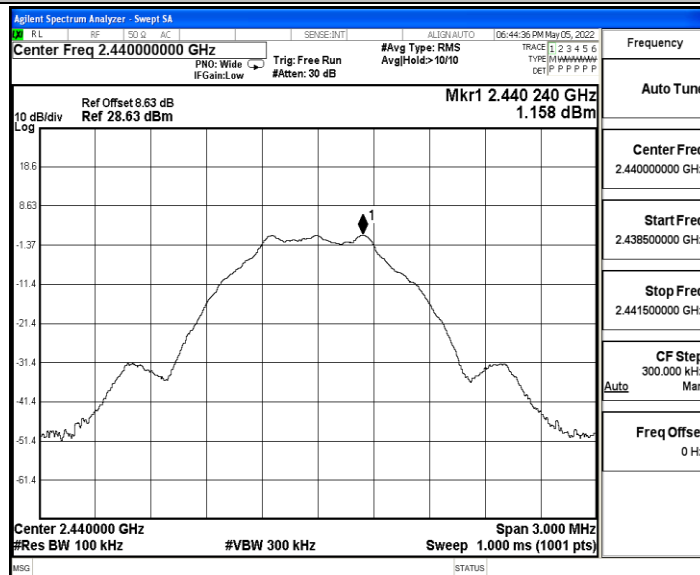
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BLE_Ant_2440_0~Reference



BLE_Ant_2440_30~1000

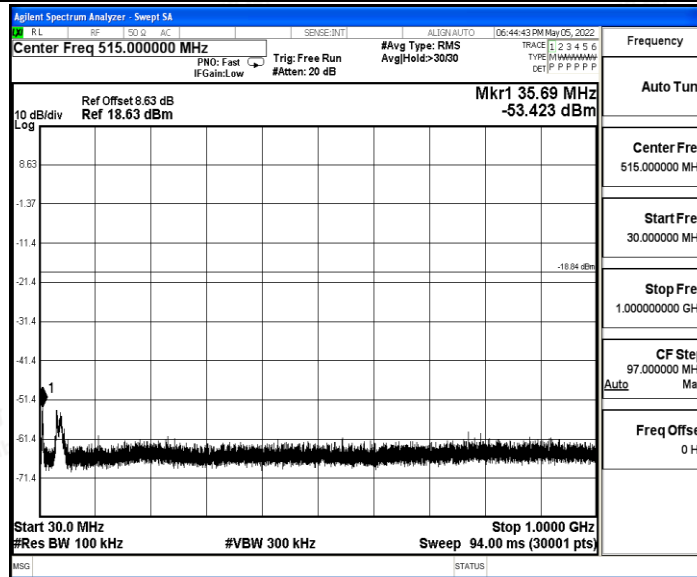


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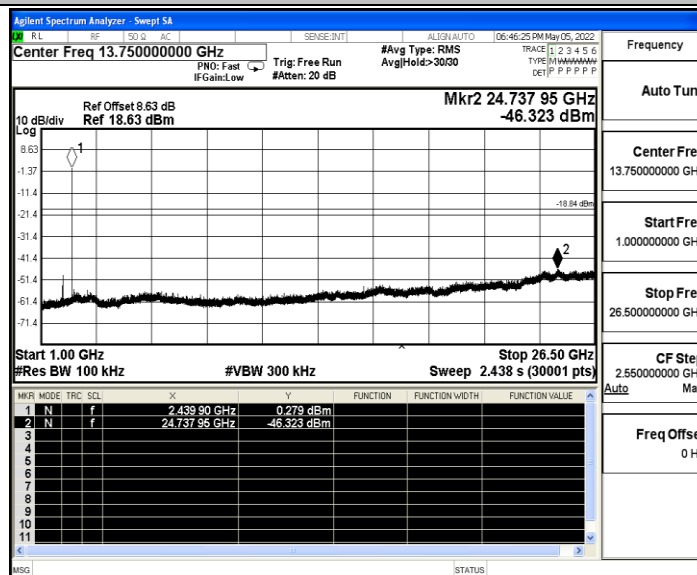
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BLE_Ant_2440_1000~26500



BLE_Ant_2480_0~Reference

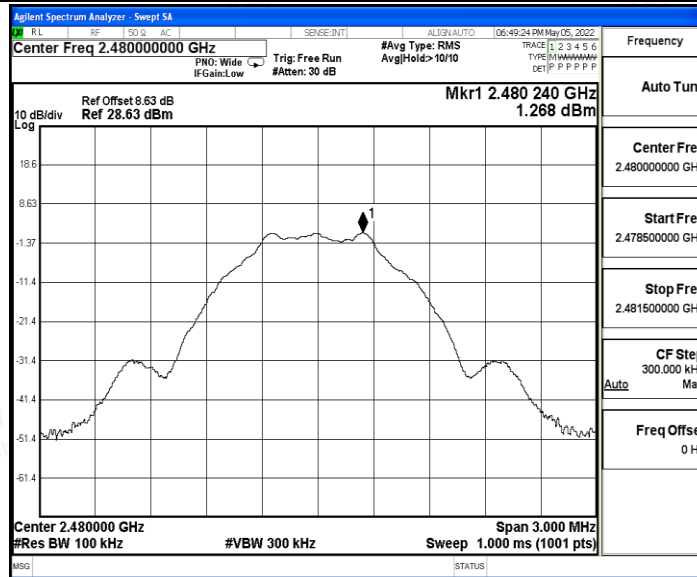


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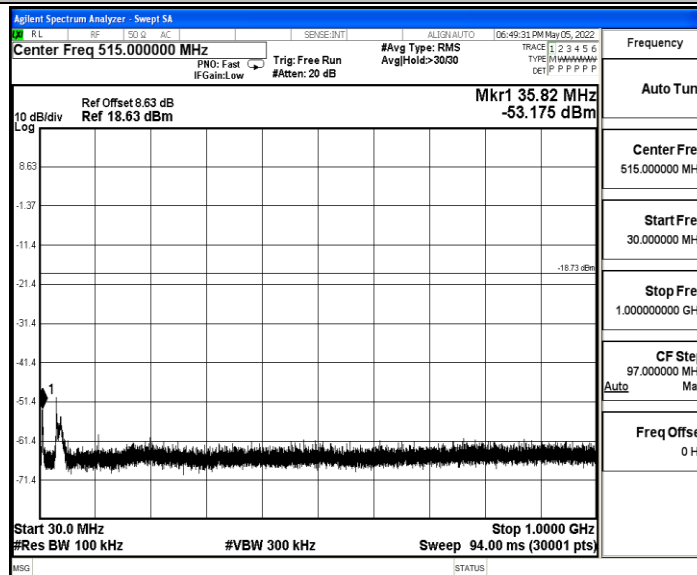
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BLE_Ant_2480_30~1000



BLE_Ant_2480_1000~26500

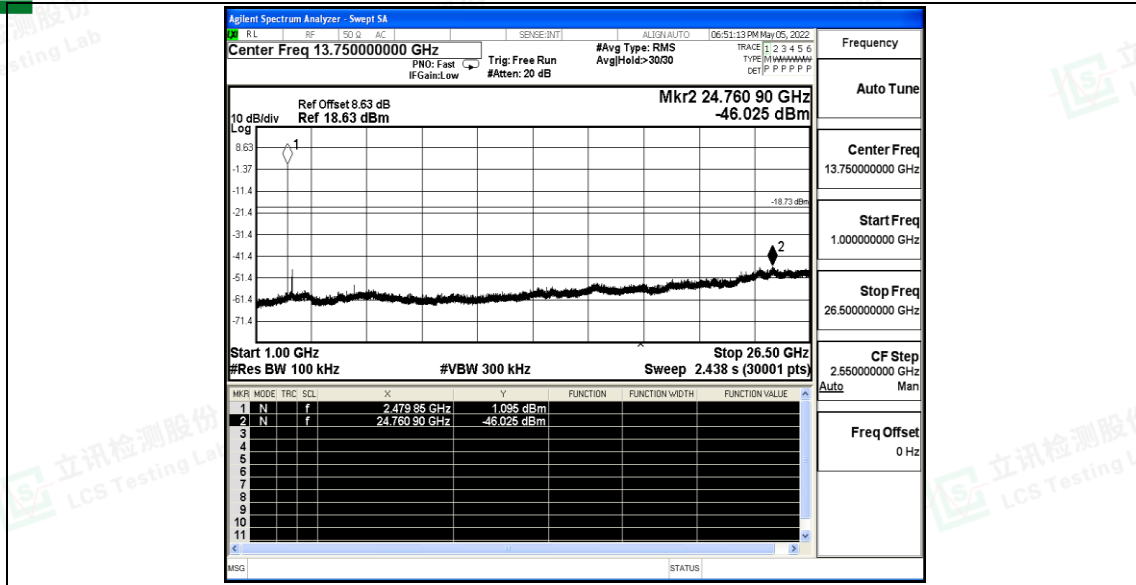


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B.6 Duty Cycle

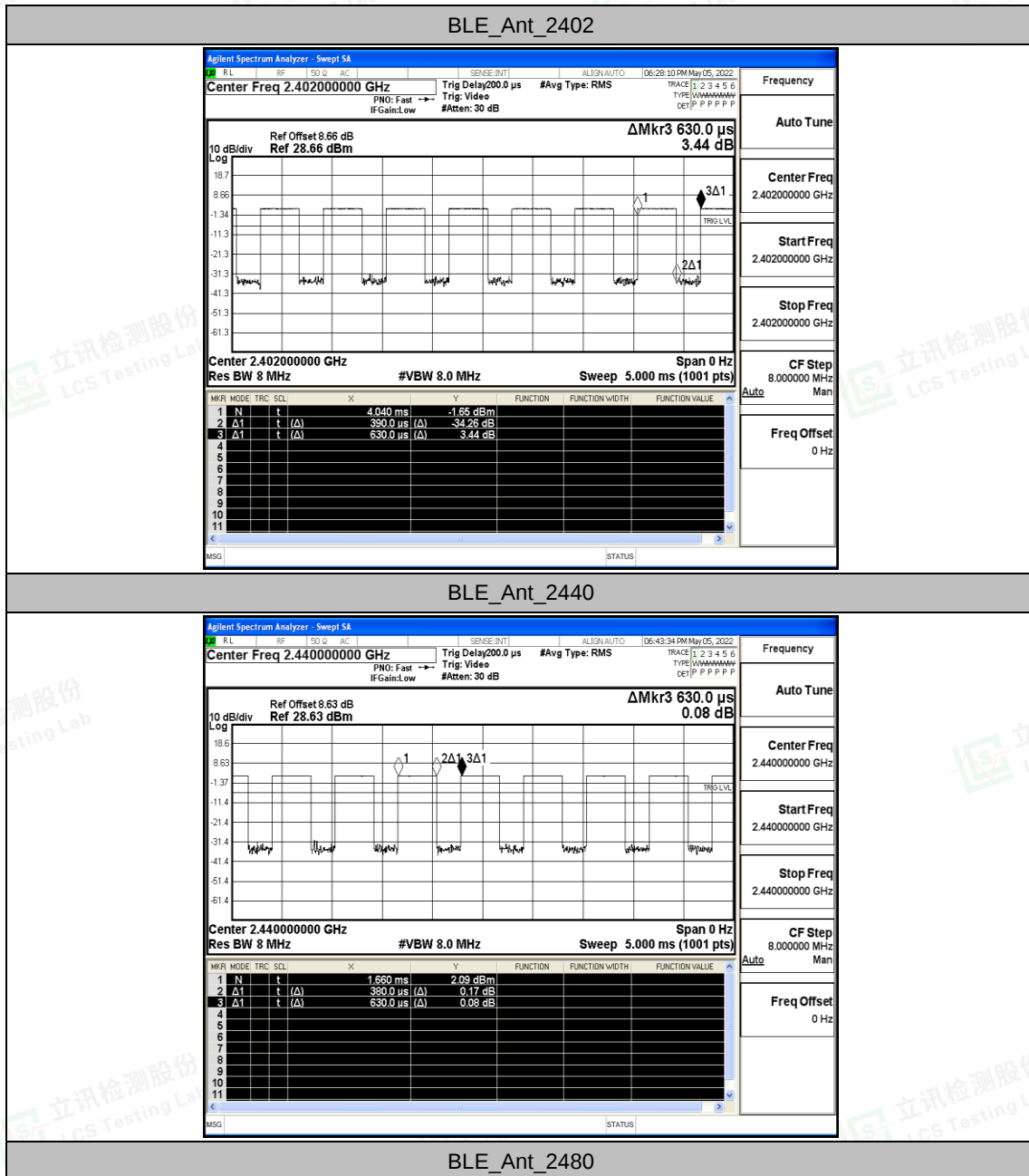
Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE	Ant	2402	0.39	0.63	0.6190	61.90	2.08	---	---
		2440	0.38	0.63	0.6032	60.32	2.20	---	---
		2480	0.39	0.63	0.6190	61.90	2.08	---	---





Test Graphs

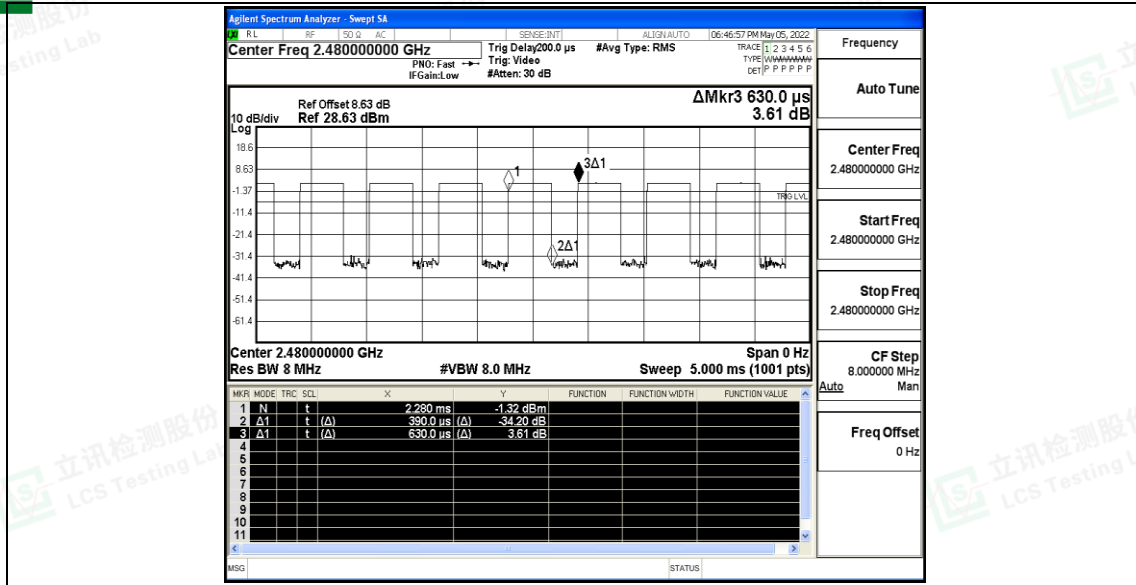


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B.7 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE	Ant	Low	2402	AV	2310.000	-47.59	≤-41.20	47.61	≤54	PASS
				AV	2386.625	-46.71	≤-41.20	48.49	≤54	PASS
				AV	2390.000	-47.3	≤-41.20	47.90	≤54	PASS
				Peak	2310.000	-38.62	≤-21.20	56.58	≤74	PASS
				Peak	2314.070	-36.94	≤-21.20	58.26	≤74	PASS
				Peak	2390.000	-38.49	≤-21.20	56.71	≤74	PASS
		High	2480	AV	2483.500	-46.16	≤-41.20	49.04	≤54	PASS
				AV	2495.680	-46.15	≤-41.20	49.05	≤54	PASS
				AV	2500.000	-46.62	≤-41.20	48.58	≤54	PASS
				Peak	2483.500	-38.14	≤-21.20	57.06	≤74	PASS
				Peak	2499.840	-35.73	≤-21.20	59.47	≤74	PASS
				Peak	2500.000	-37.91	≤-21.20	57.29	≤74	PASS

Note:

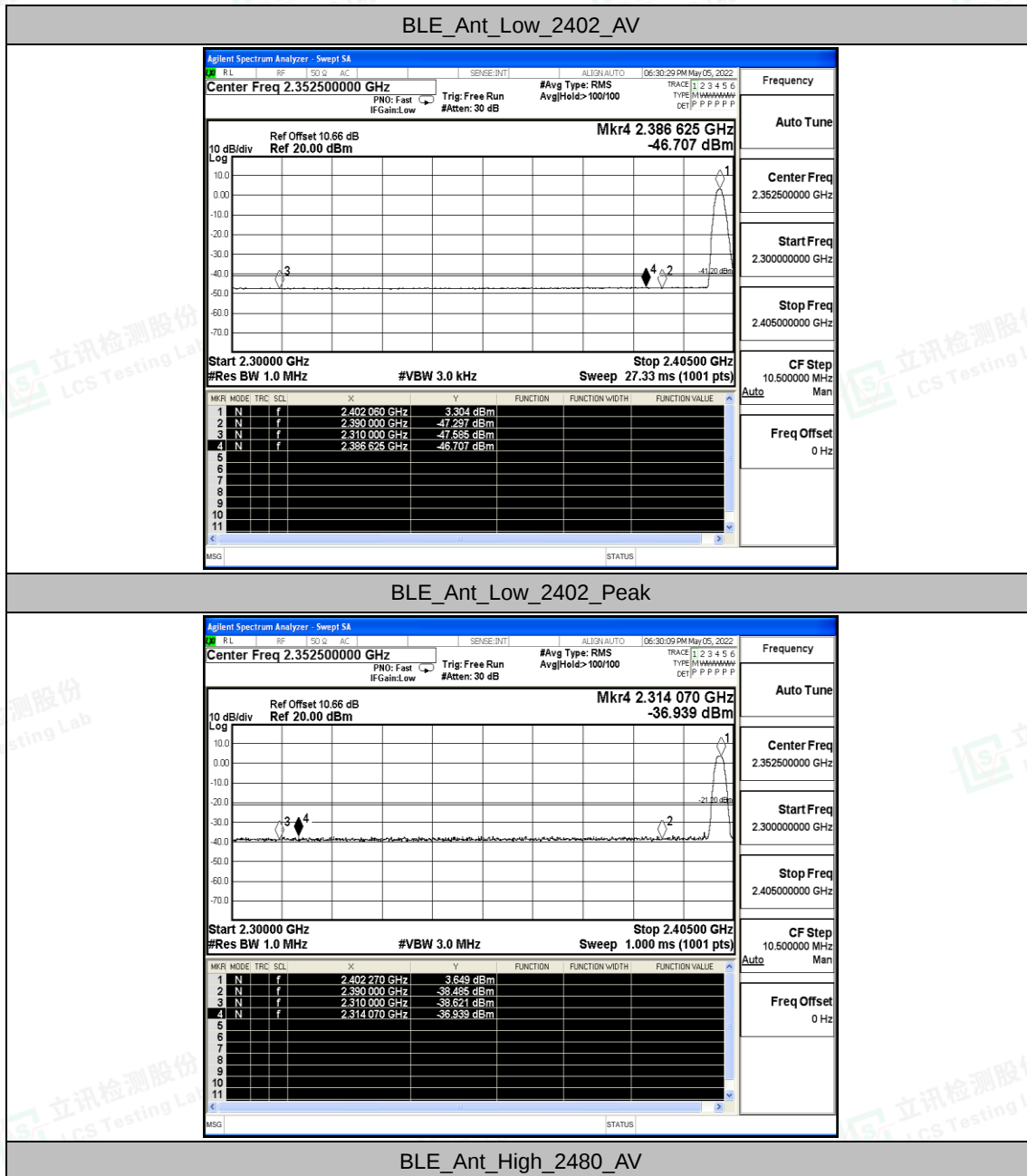
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



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Test Graphs

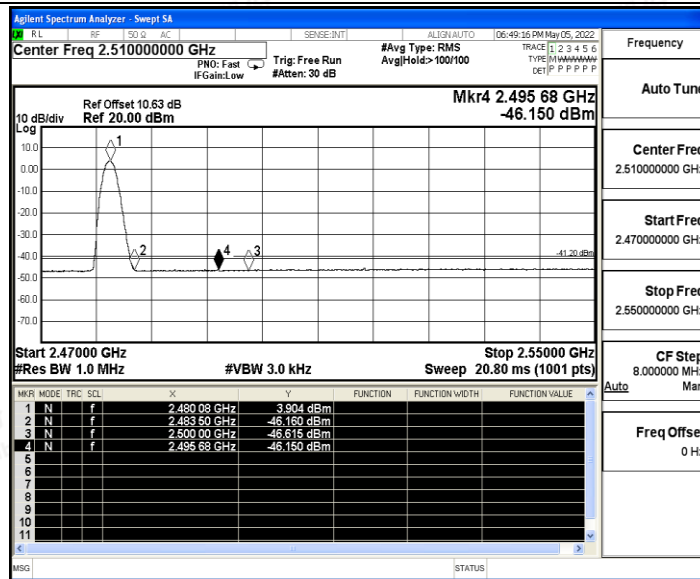


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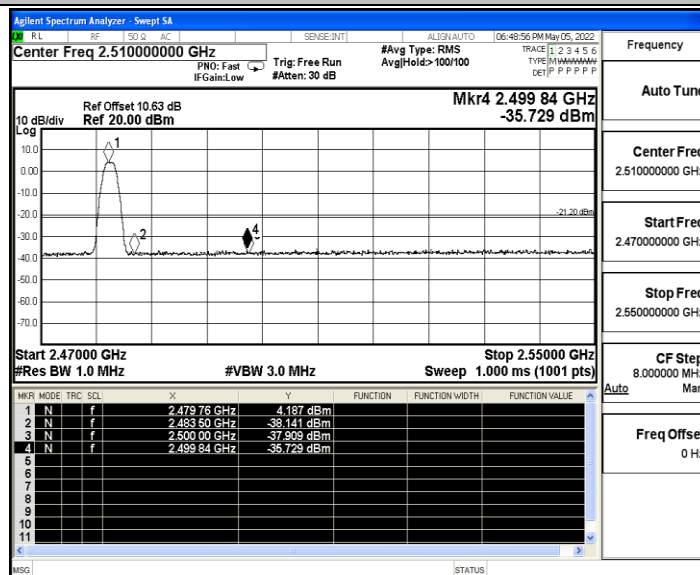
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BLE_Ant_High_2480_Peak



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