



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: Smart Steam Eye Massager Pro

Test Model: ECP-03

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Nick Peng
Test Engineer:	Ling Zhu



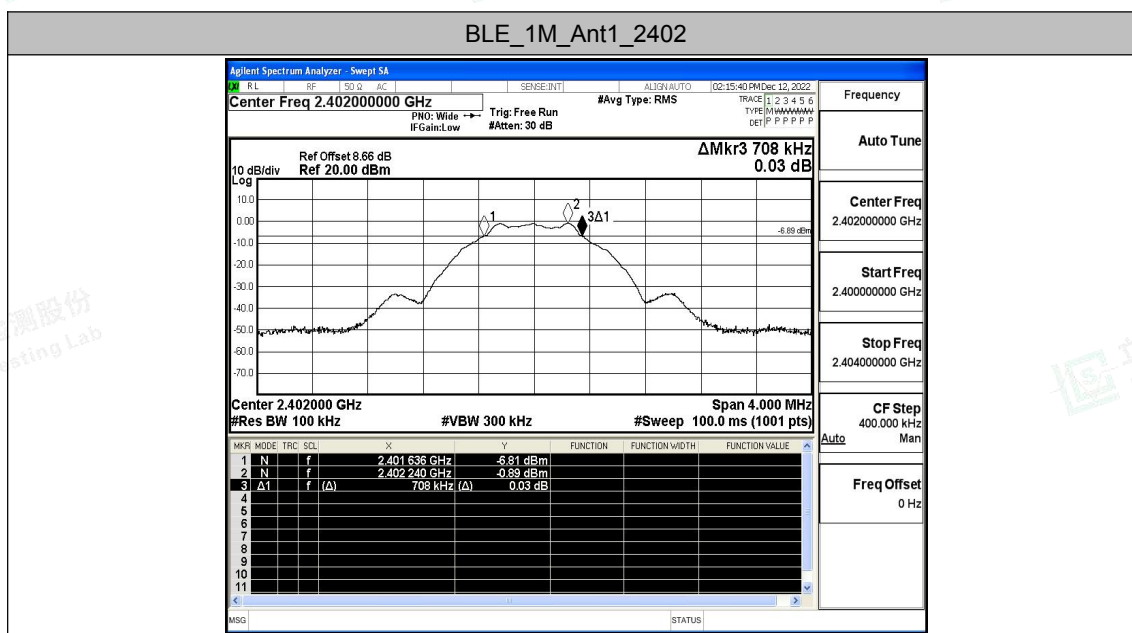
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B.1 DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.708	2401.636	2402.344	0.5	PASS
		2440	0.712	2439.636	2440.348	0.5	PASS
		2480	0.712	2479.636	2480.348	0.5	PASS

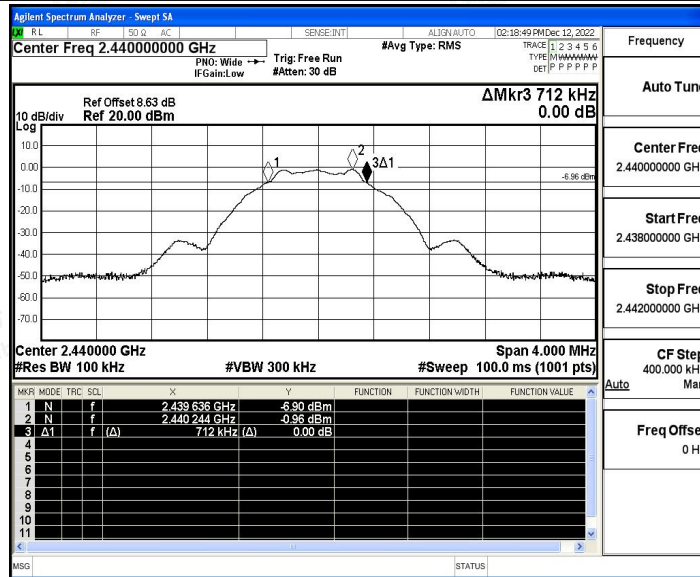
Test Graphs



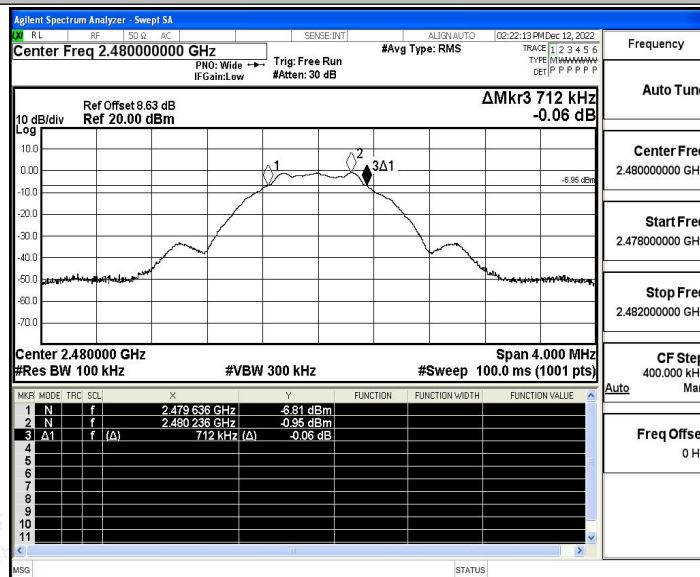
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BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



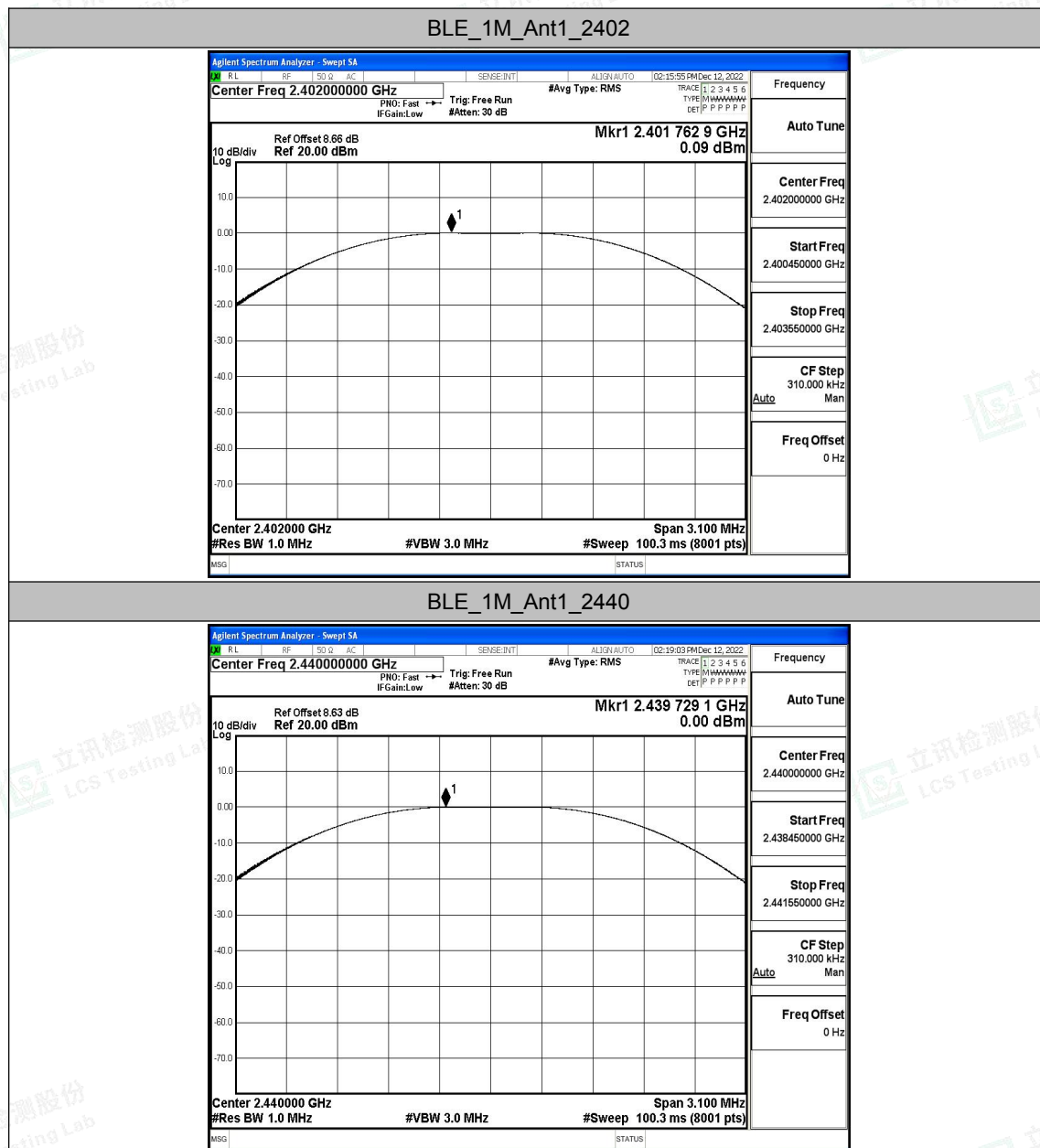


B.2 Maximum conducted output power

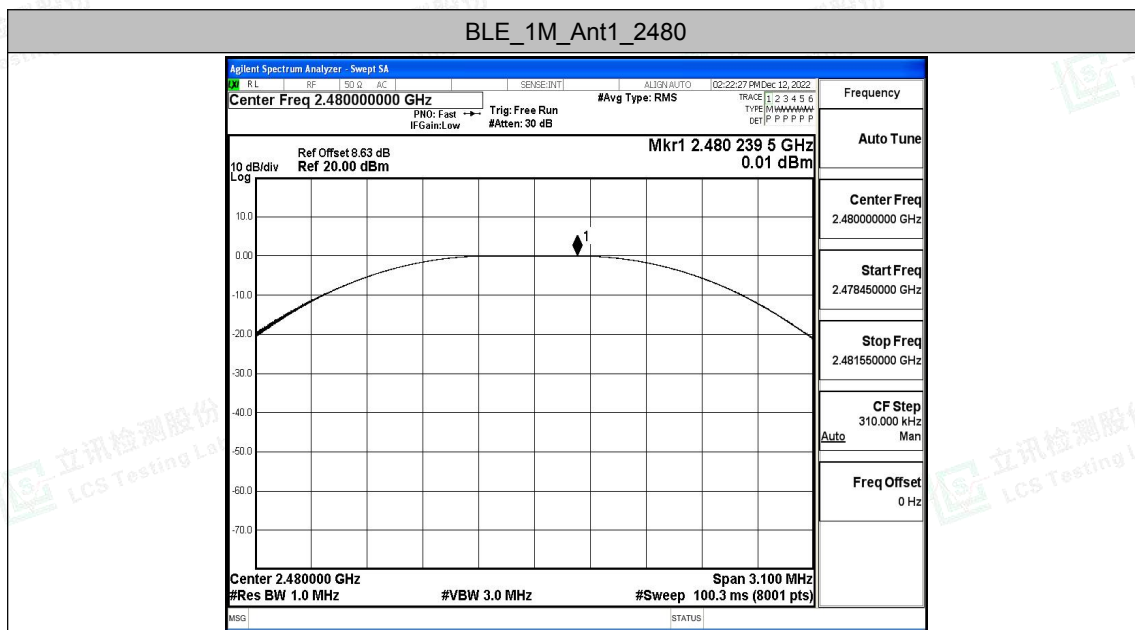
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.09	≤30	PASS
		2440	0.00	≤30	PASS
		2480	0.01	≤30	PASS

Test Graphs



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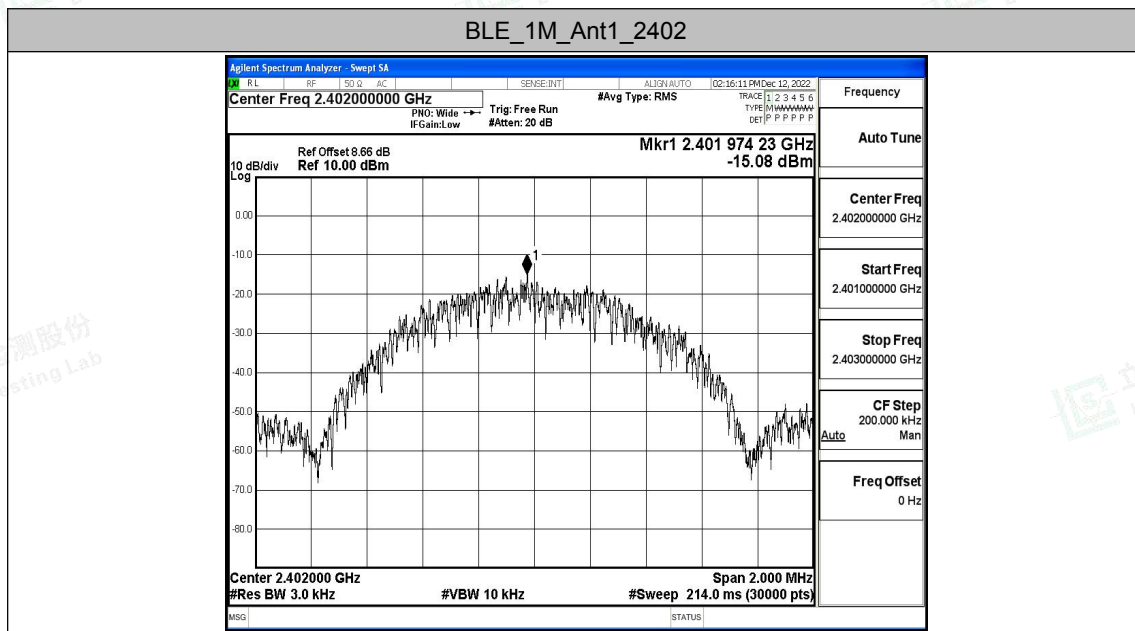


B.3 Maximum power spectral density

Test Result

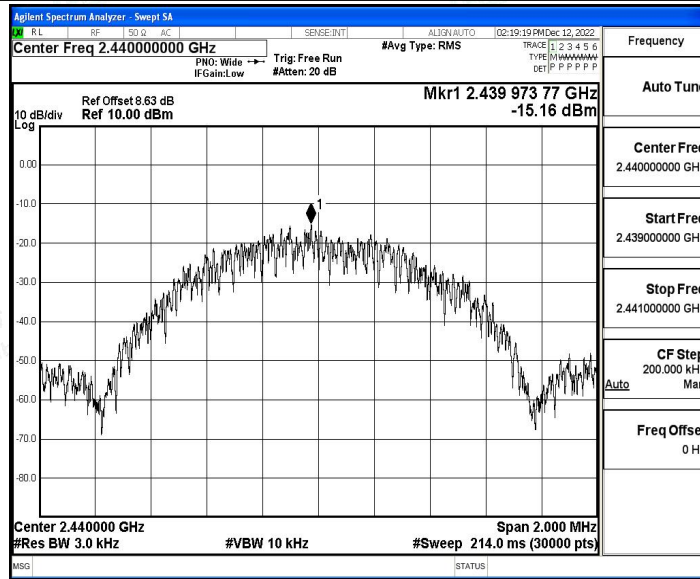
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.08	≤8.00	PASS
		2440	-15.16	≤8.00	PASS
		2480	-15.14	≤8.00	PASS

Test Graphs

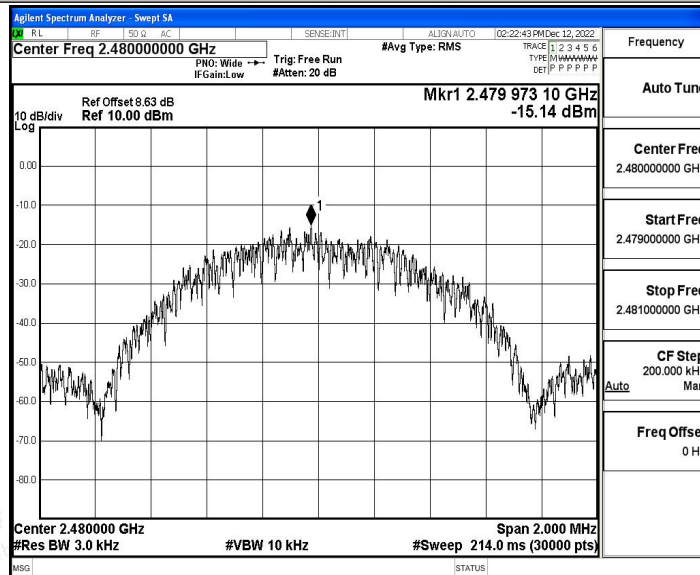




BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



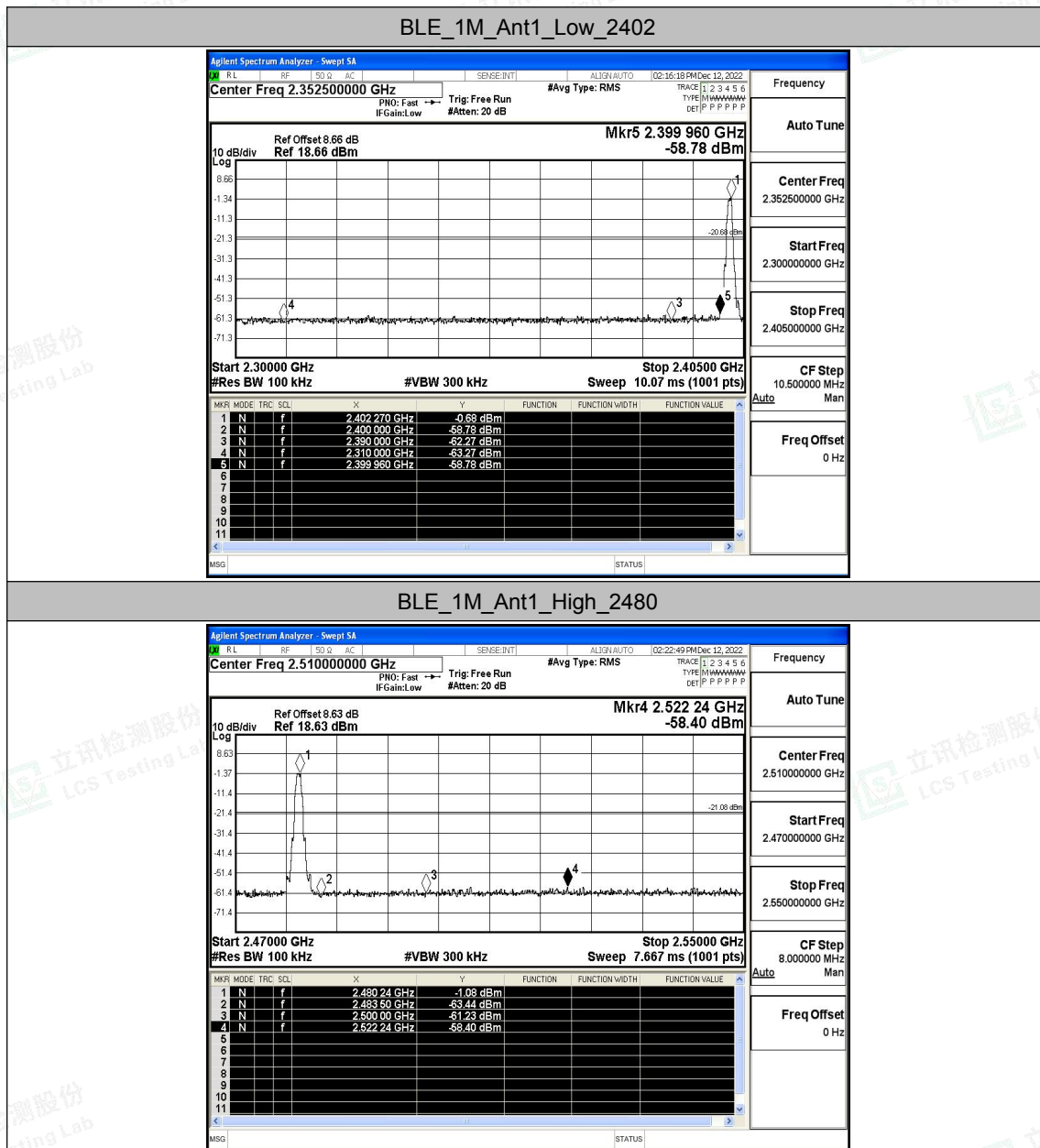


B.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.68	-58.78	≤-20.68	PASS
		High	2480	-1.08	-58.4	≤-21.08	PASS

Test Graphs



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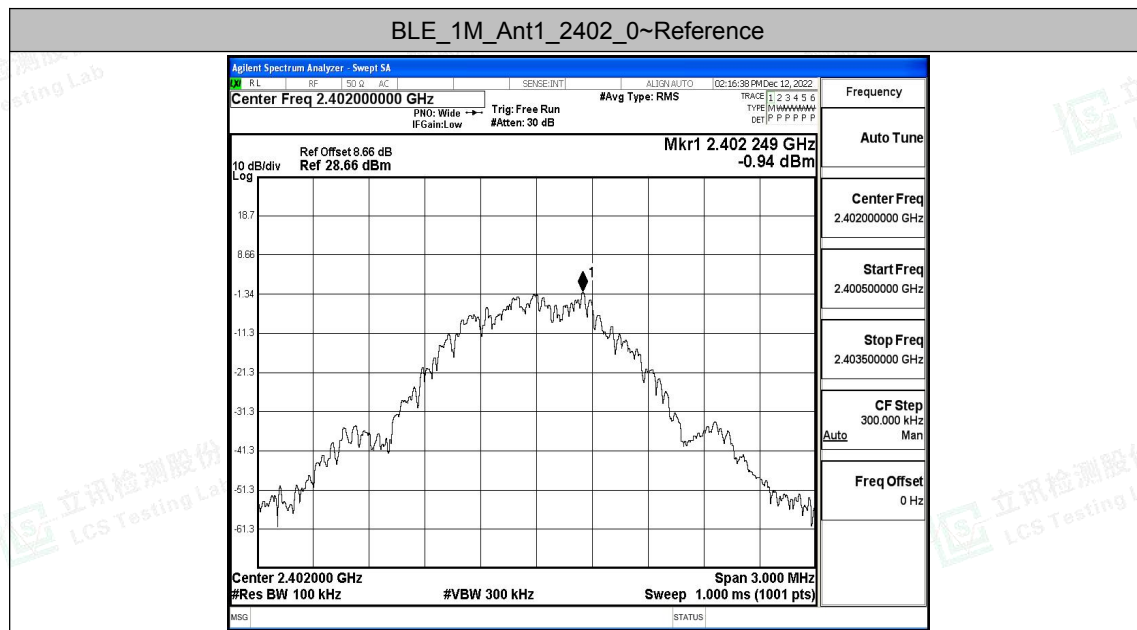


B.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-0.94	-0.94	---	PASS
			30~1000	-0.94	-61.05	≤-20.94	PASS
			1000~26500	-0.94	-46.2	≤-20.94	PASS
		2440	Reference	-1.08	-1.08	---	PASS
			30~1000	-1.08	-60.7	≤-21.08	PASS
			1000~26500	-1.08	-45.82	≤-21.08	PASS
		2480	Reference	-1.19	-1.19	---	PASS
			30~1000	-1.19	-60.79	≤-21.19	PASS
			1000~26500	-1.19	-46.37	≤-21.19	PASS

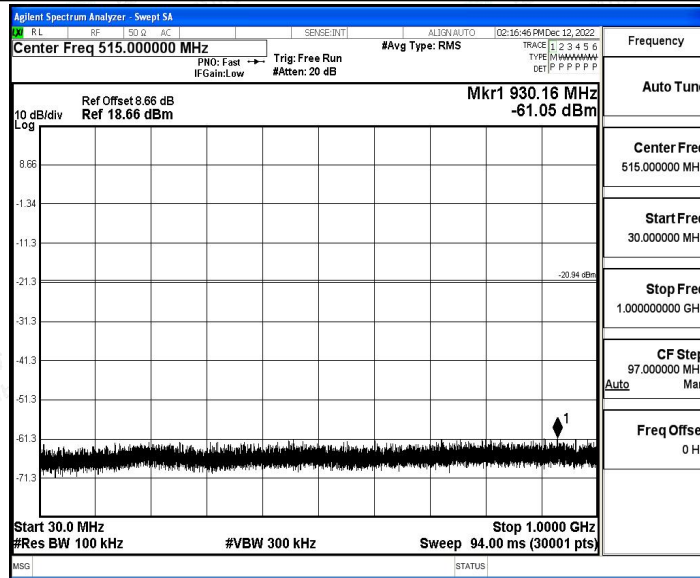
Test Graphs



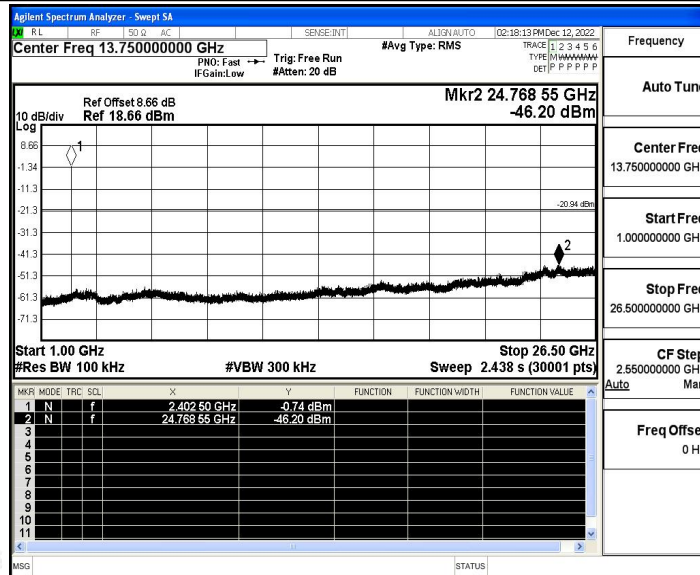
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BLE_1M_Ant1_2402_30~1000



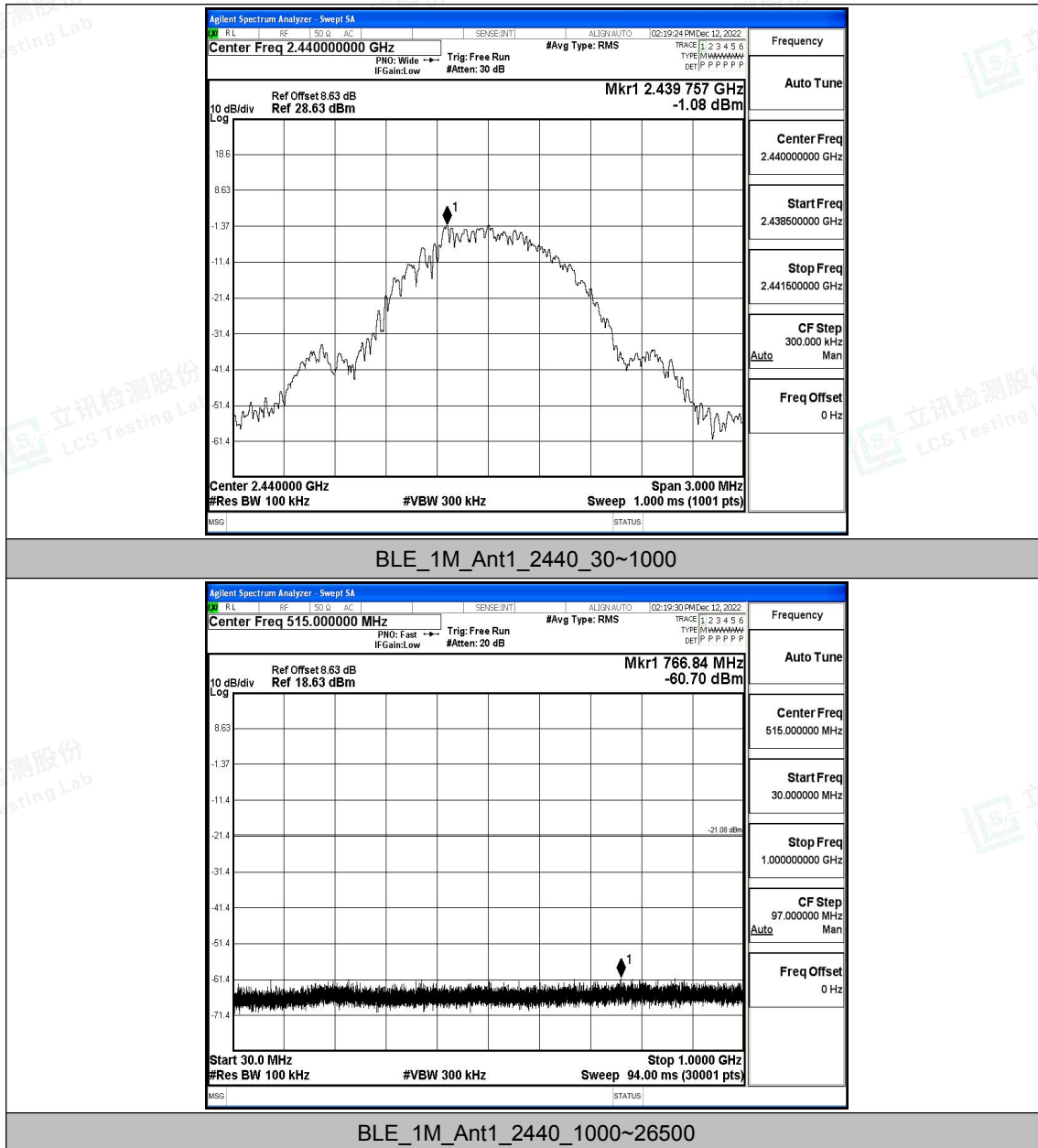
BLE_1M_Ant1_2402_1000~26500

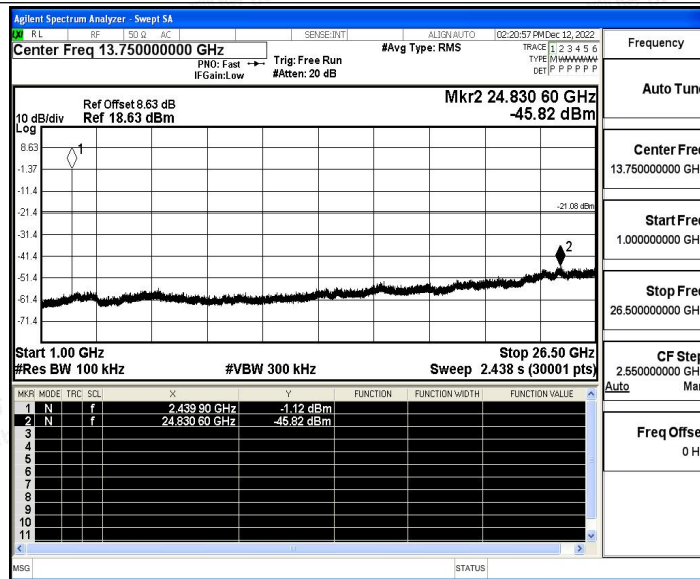


BLE_1M_Ant1_2440_0~Reference

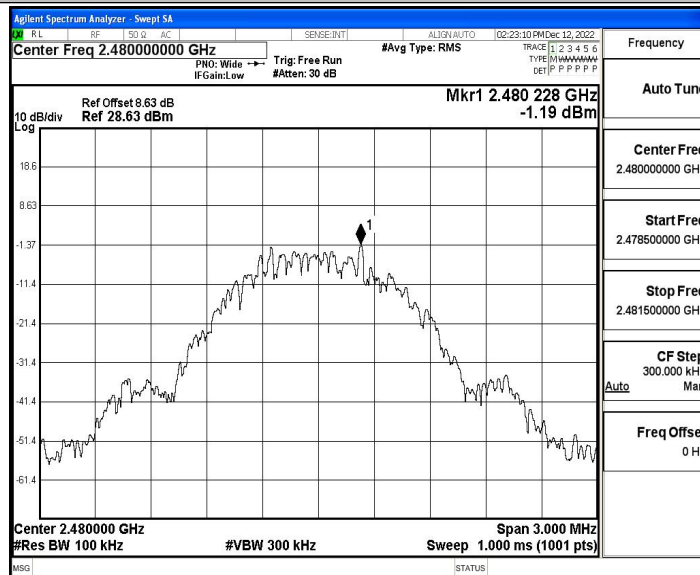


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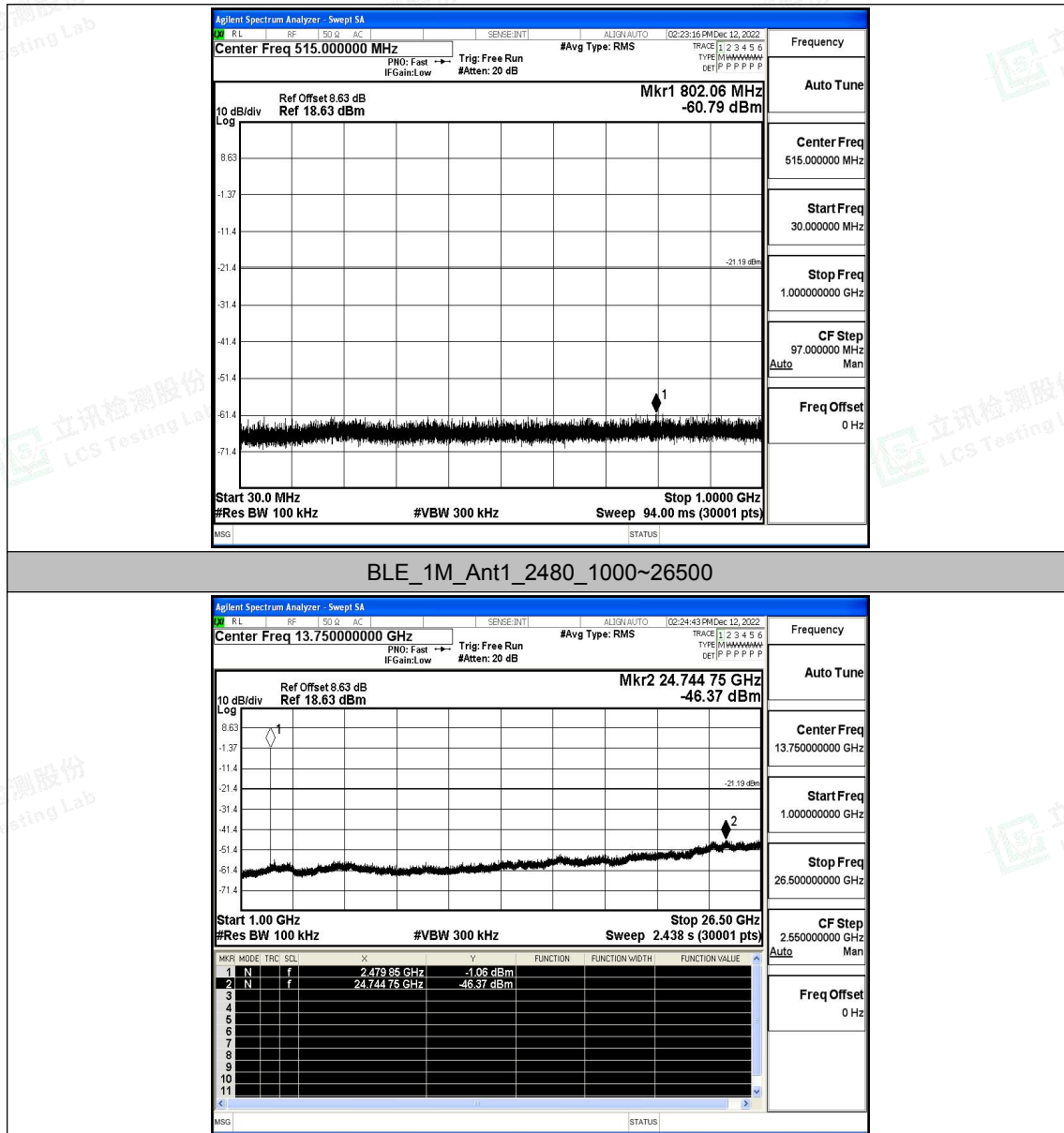
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



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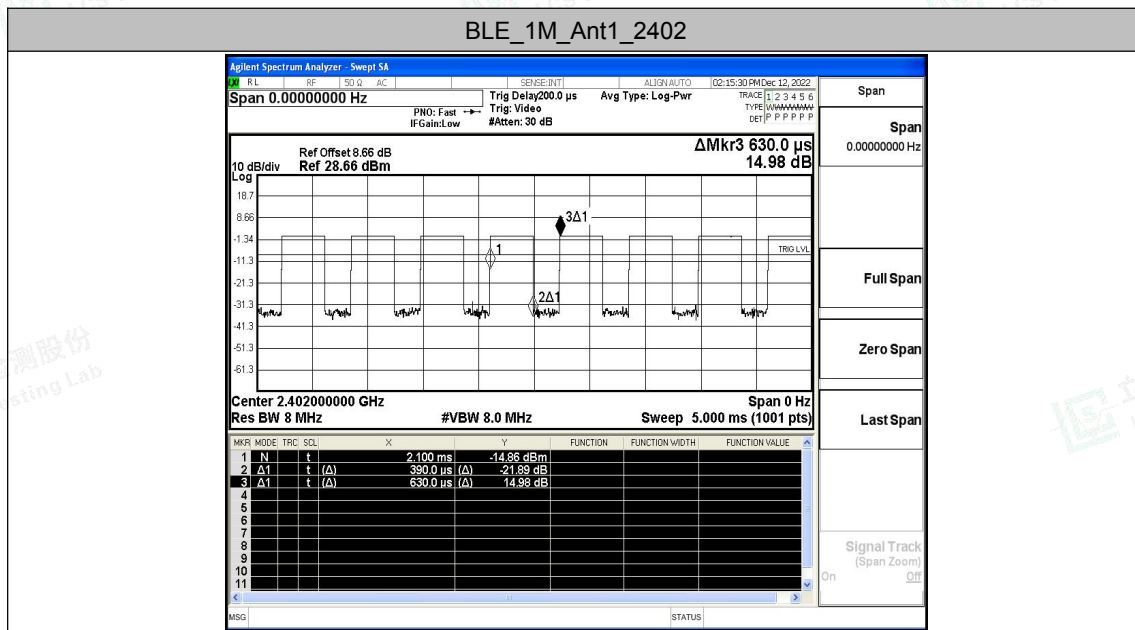


B.6 Duty Cycle

Test Result

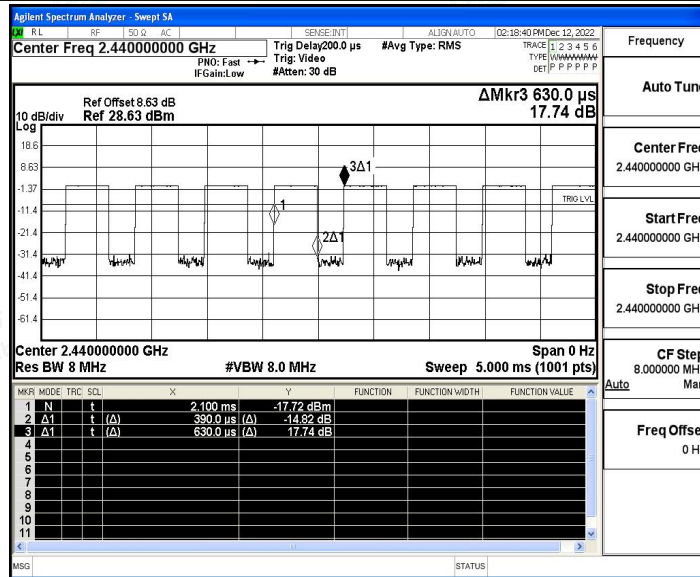
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	1/T
BLE_1M	Ant1	2402	0.39	0.63	0.6190	61.90	2.08	2.56
		2440	0.39	0.63	0.6190	61.90	2.08	2.56
		2480	0.39	0.63	0.6190	61.90	2.08	2.56

Test Graphs

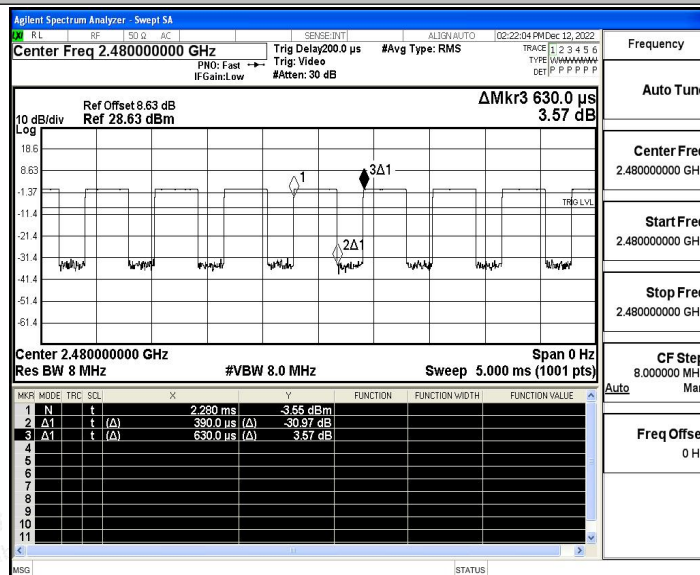




BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



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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_1M	Ant1	Low	2402	AV	2310.000	-57.41	≤-41.20	37.79	≤54	PASS
				AV	2376.965	-56.54	≤-41.20	38.66	≤54	PASS
				AV	2390.000	-57.11	≤-41.20	38.09	≤54	PASS
				Peak	2310.000	-51.77	≤-21.20	43.43	≤74	PASS
				Peak	2365.205	-47.33	≤-21.20	47.87	≤74	PASS
				Peak	2390.000	-49.33	≤-21.20	45.87	≤74	PASS
		High	2480	AV	2483.500	-53.58	≤-41.20	41.62	≤54	PASS
				AV	2483.520	-53.58	≤-41.20	41.62	≤54	PASS
				AV	2500.000	-56.54	≤-41.20	38.66	≤54	PASS
				Peak	2483.500	-49.78	≤-21.20	45.42	≤74	PASS
				Peak	2499.920	-47.15	≤-21.20	48.05	≤74	PASS
				Peak	2500.000	-49.13	≤-21.20	46.07	≤74	PASS

Note:

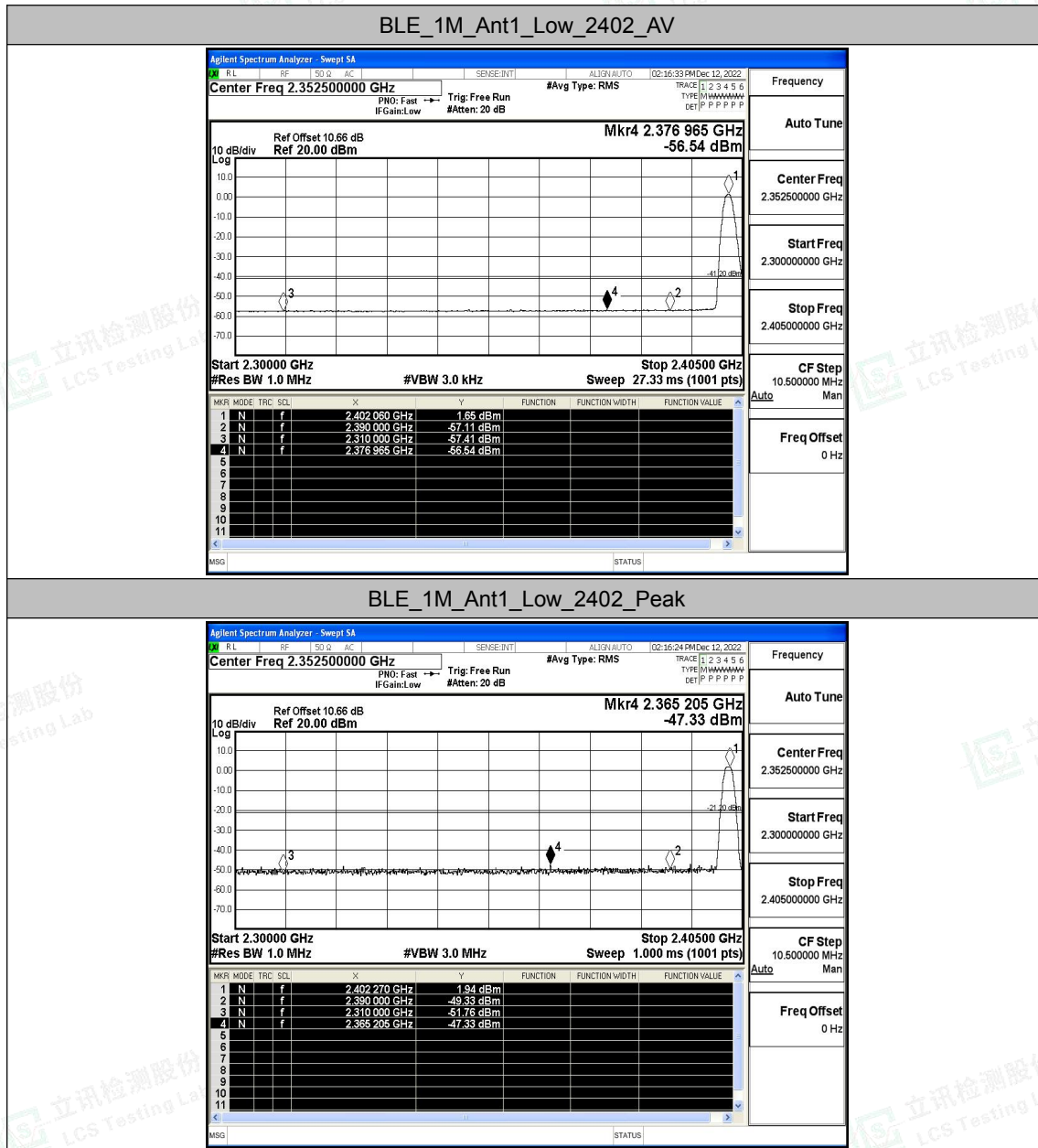
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



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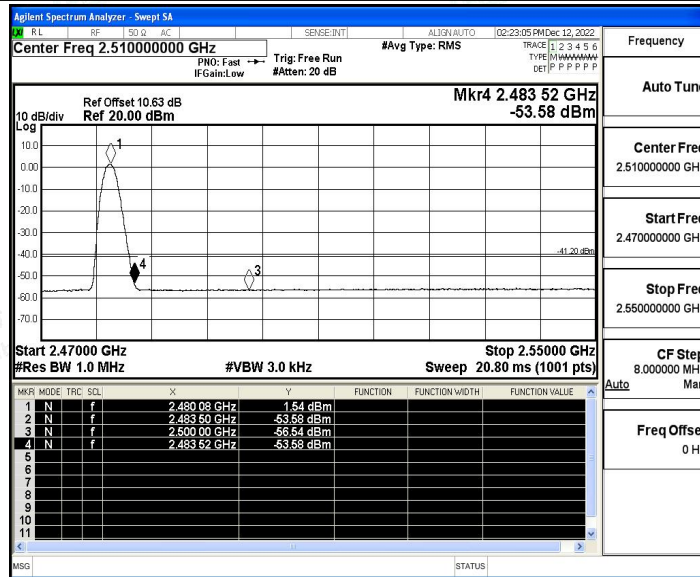
Test Graphs



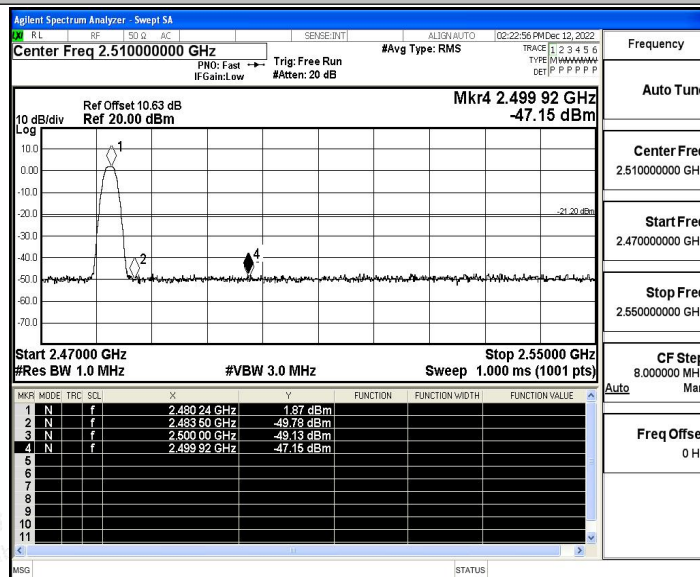
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BLE_1M_Ant1_High_2480_AV



BLE_1M_Ant1_High_2480_Peak



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