

Appendix A

RF Test Data for BT LE (Conducted Measurement)

Product Name: Portable ECG Monitor

Test Model: CARDEA-3

Environmental Conditions

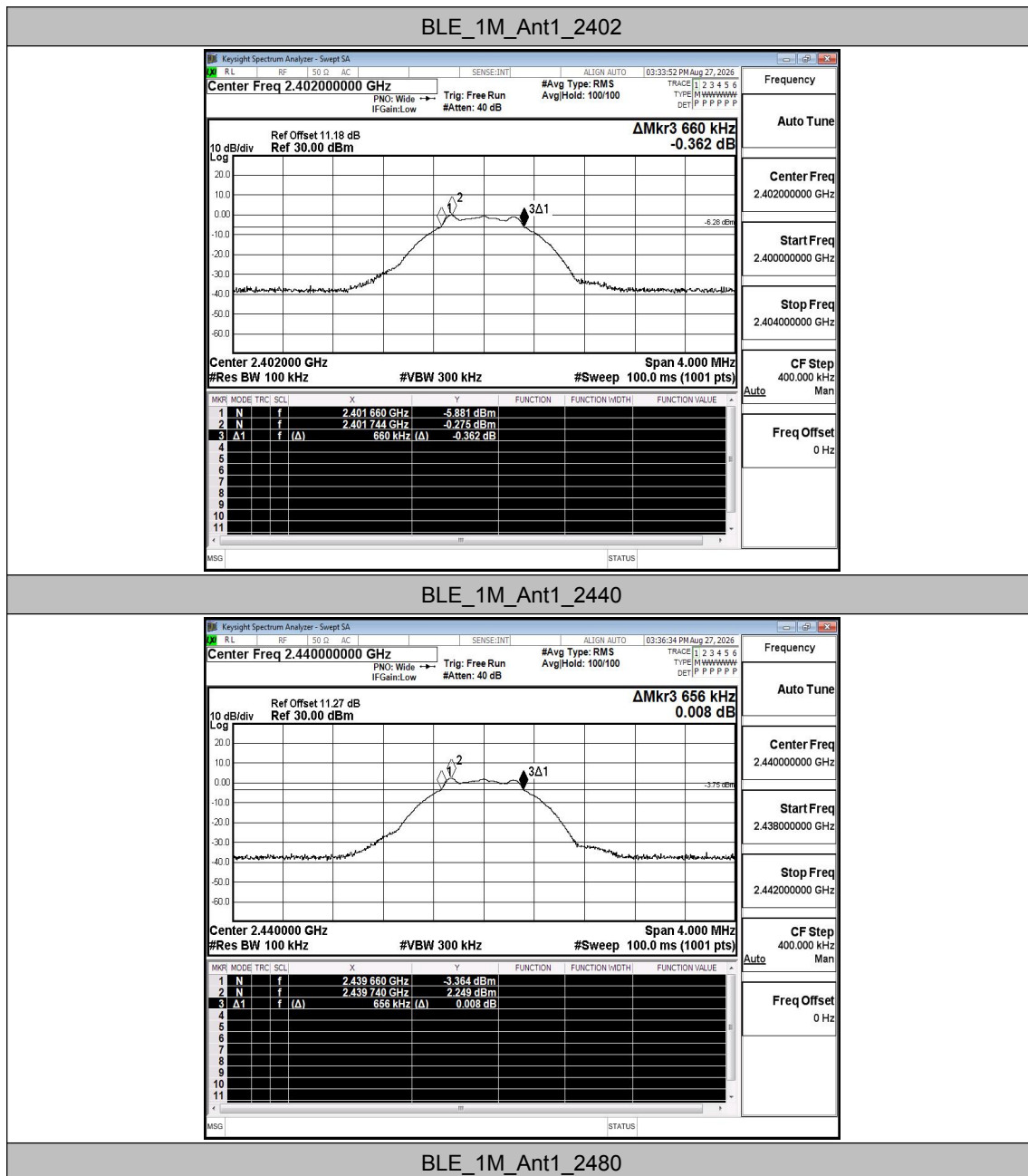
Temperature:	24.5°C
Relative Humidity:	53.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

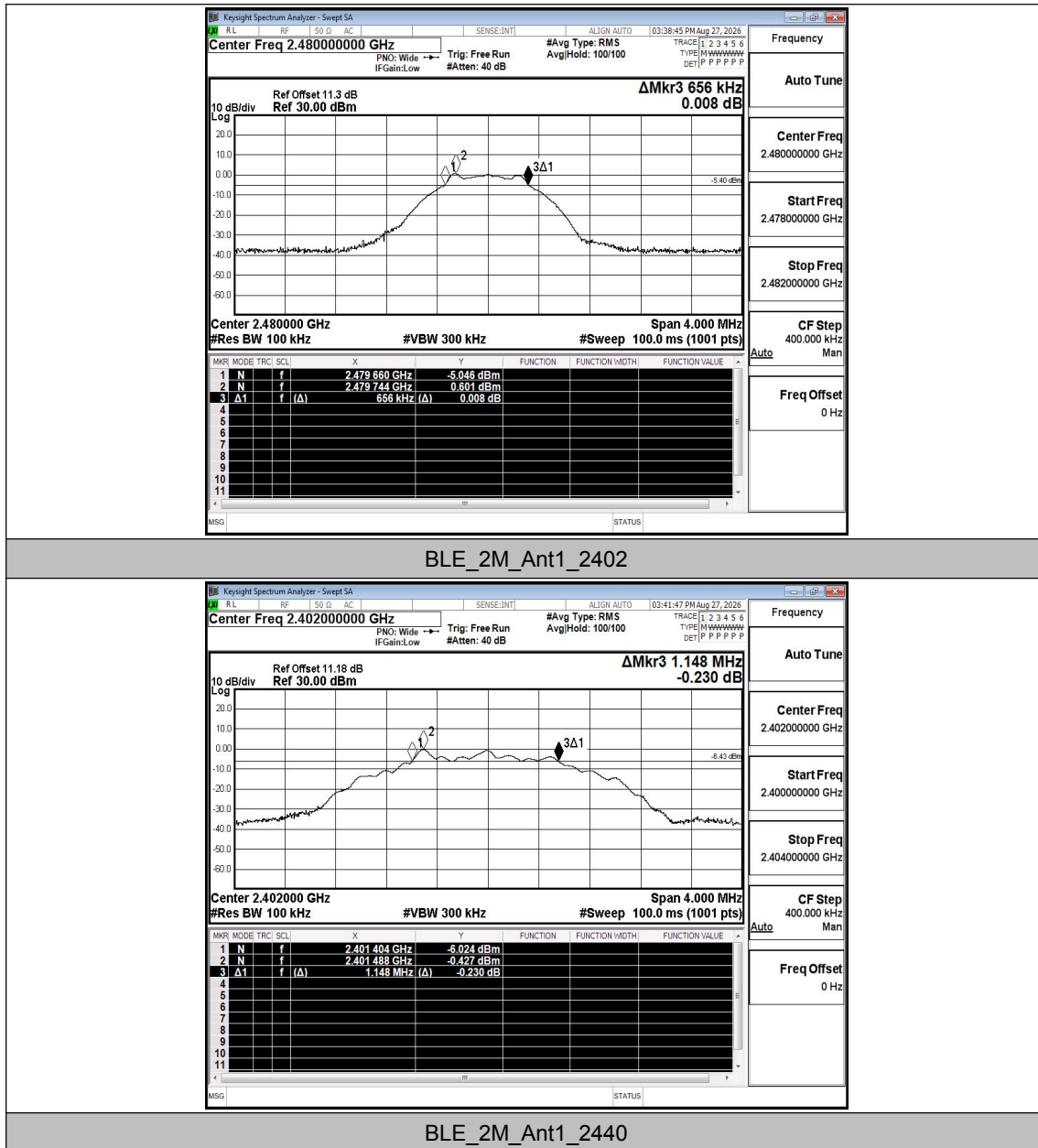
A.1 DTS Bandwidth

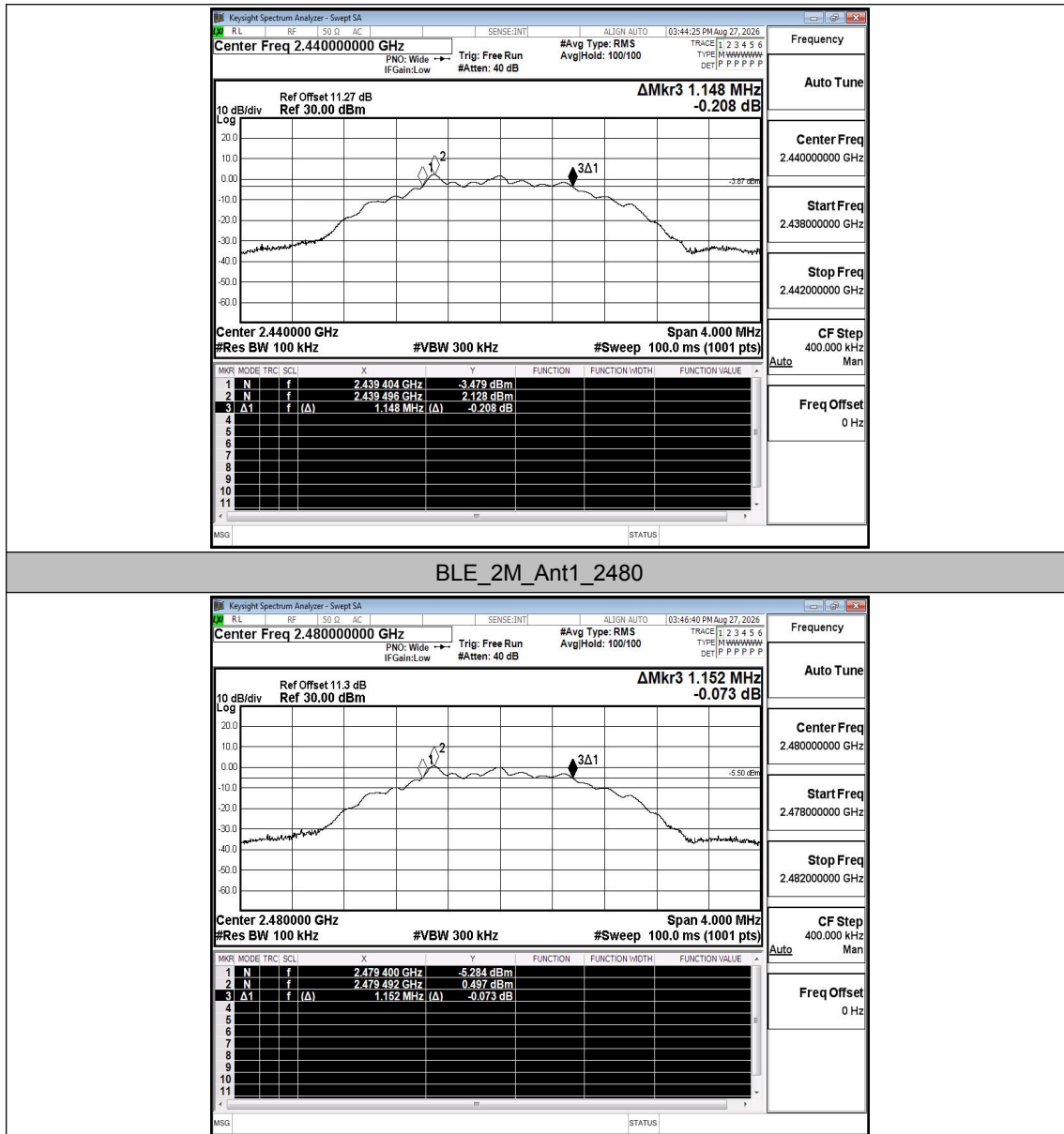
Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.660	2401.660	2402.320	0.5	PASS
		2440	0.656	2439.660	2440.316	0.5	PASS
		2480	0.656	2479.660	2480.316	0.5	PASS
BLE_2M	Ant1	2402	1.148	2401.404	2402.552	0.5	PASS
		2440	1.148	2439.404	2440.552	0.5	PASS
		2480	1.152	2479.400	2480.552	0.5	PASS

Test Graphs





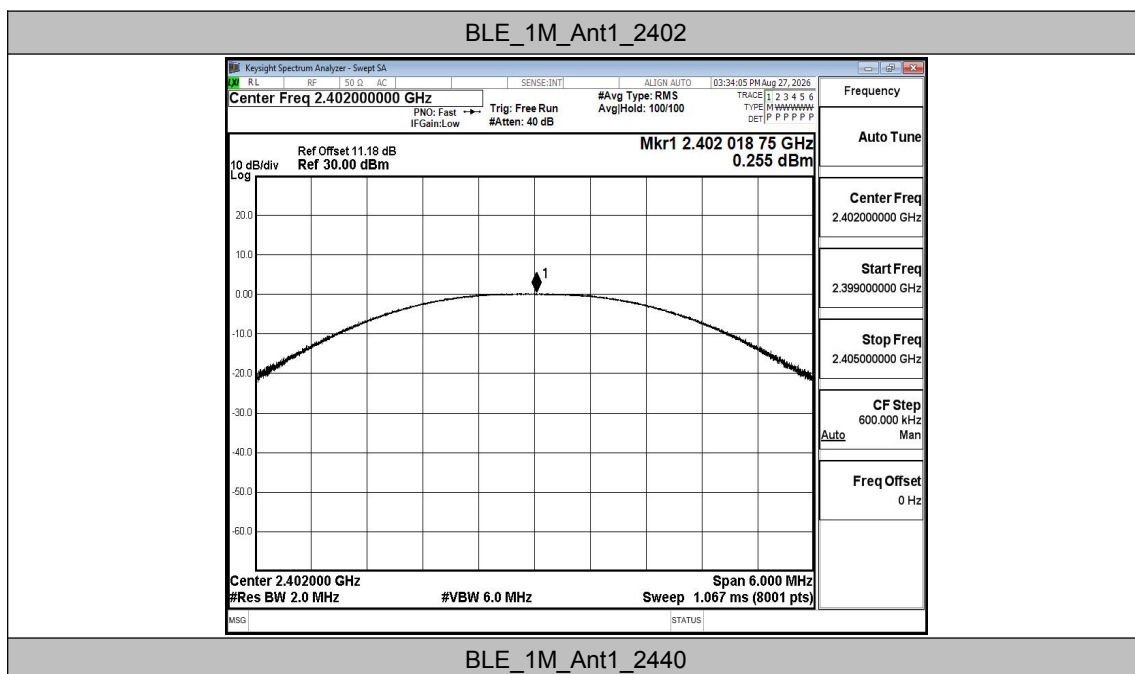


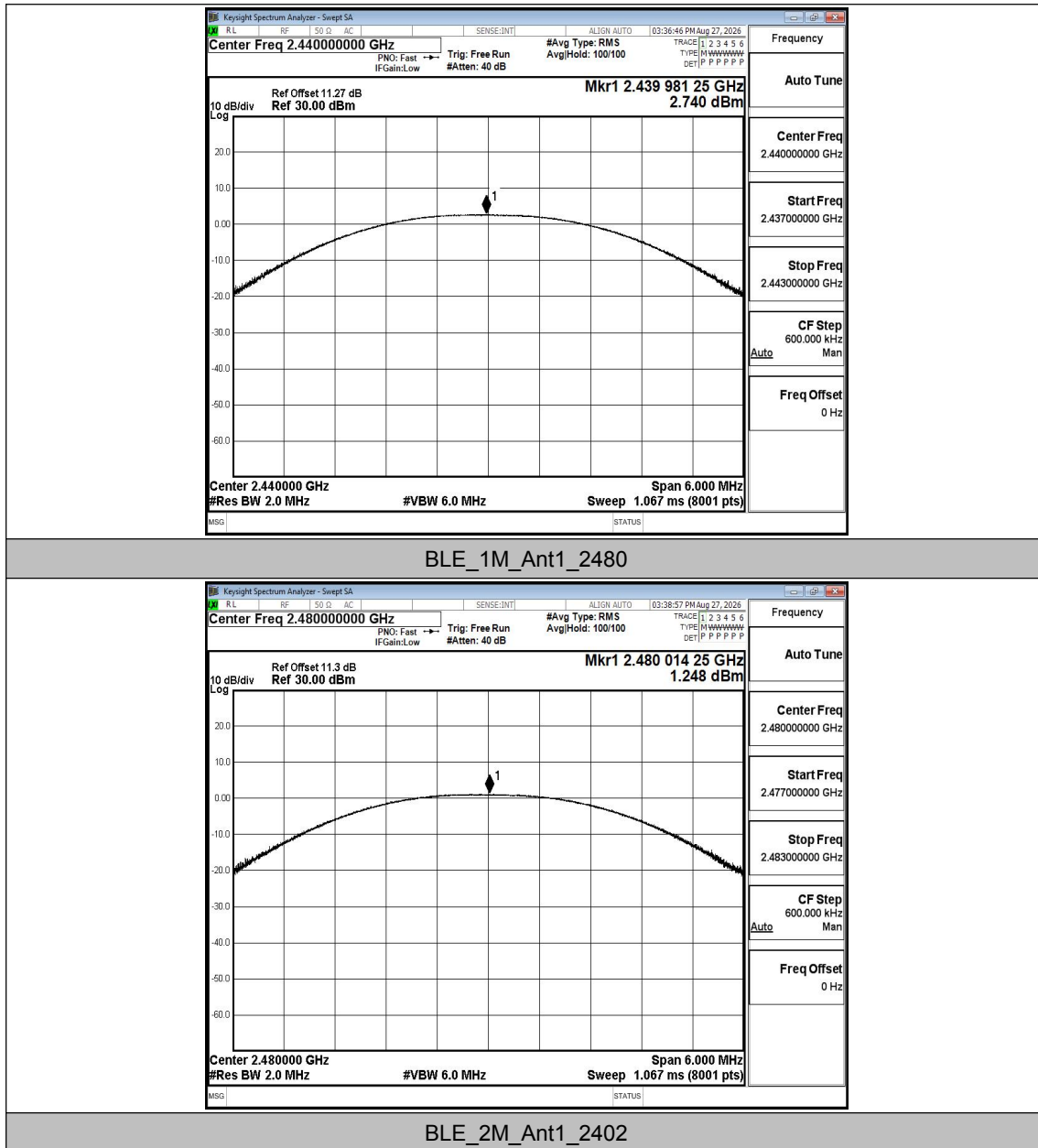
A.2 Maximum Peak conducted output power

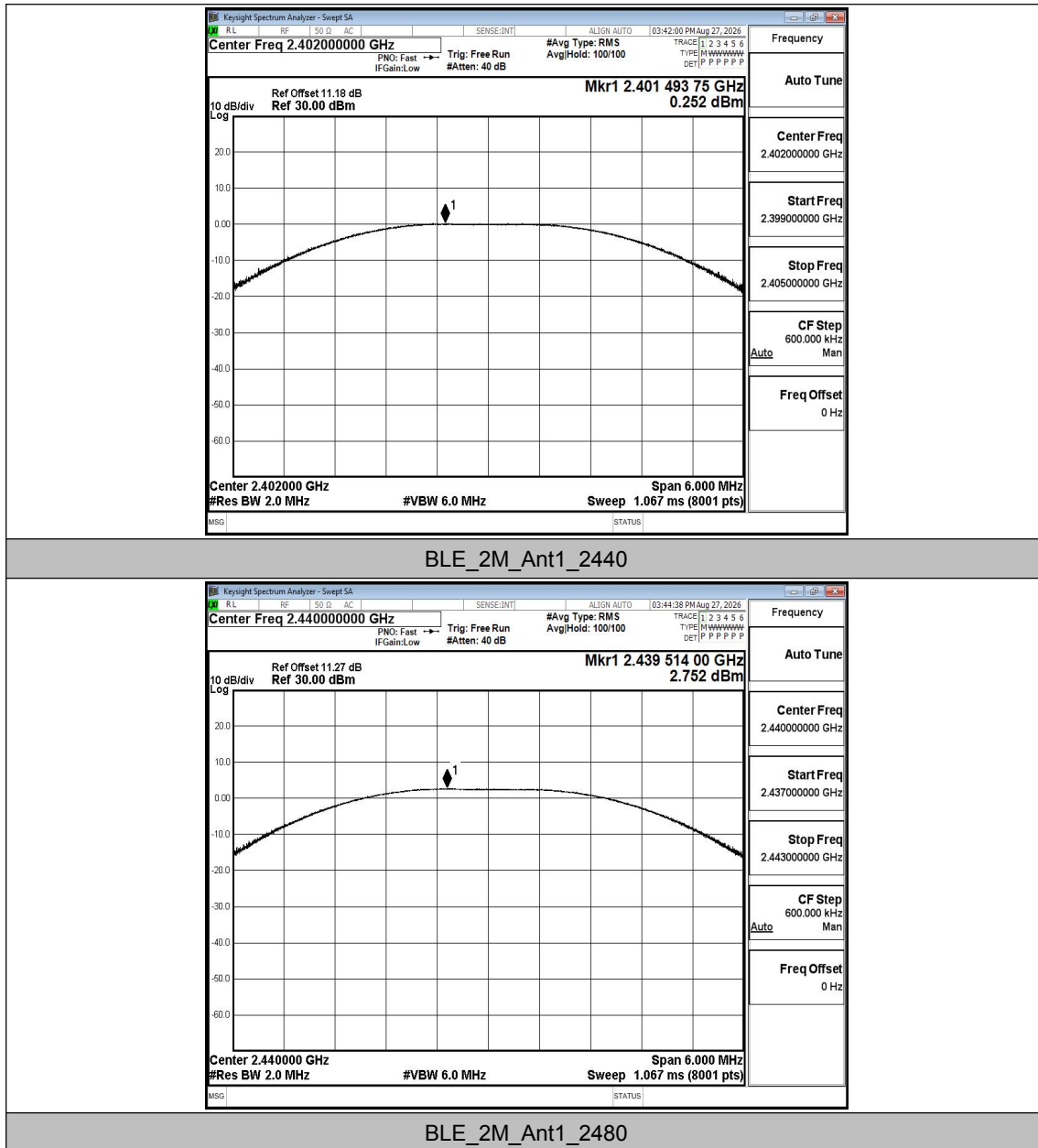
Test Result Peak

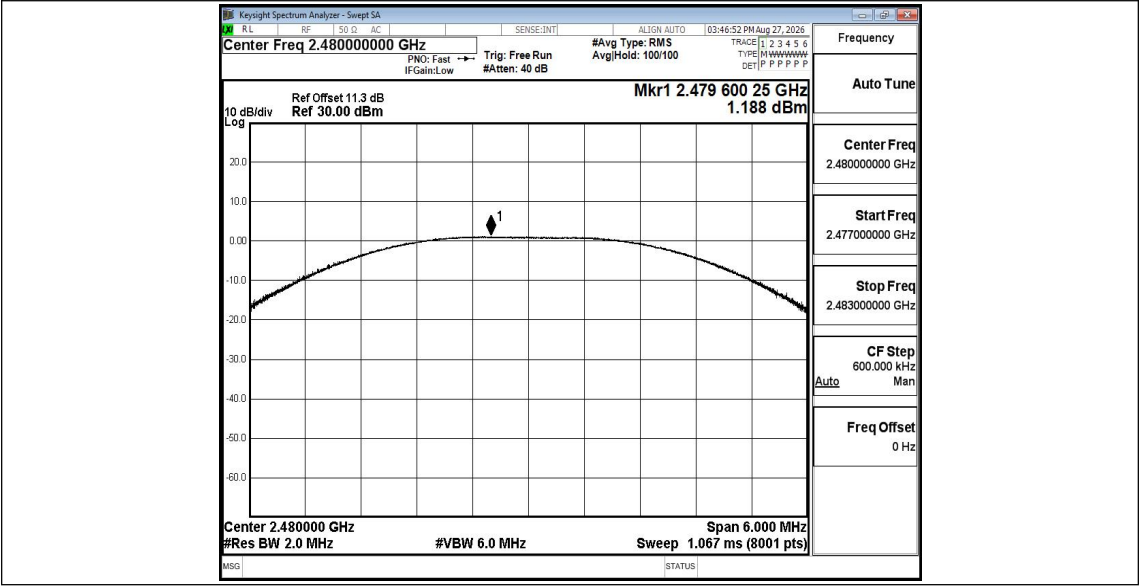
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.26	≤30	PASS
		2440	2.74	≤30	PASS
		2480	1.25	≤30	PASS
BLE_2M	Ant1	2402	0.25	≤30	PASS
		2440	2.75	≤30	PASS
		2480	1.19	≤30	PASS

Test Graphs Peak







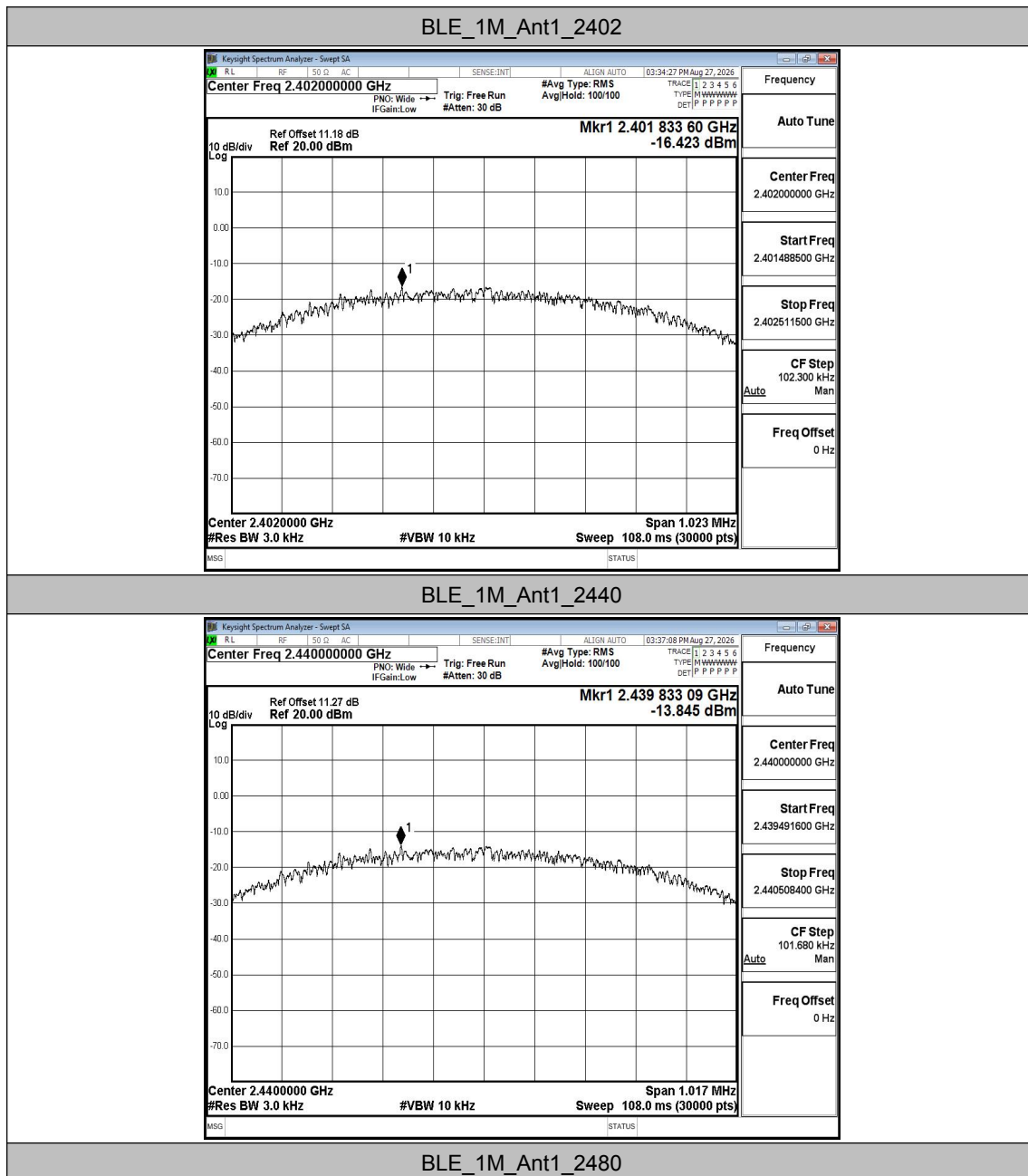


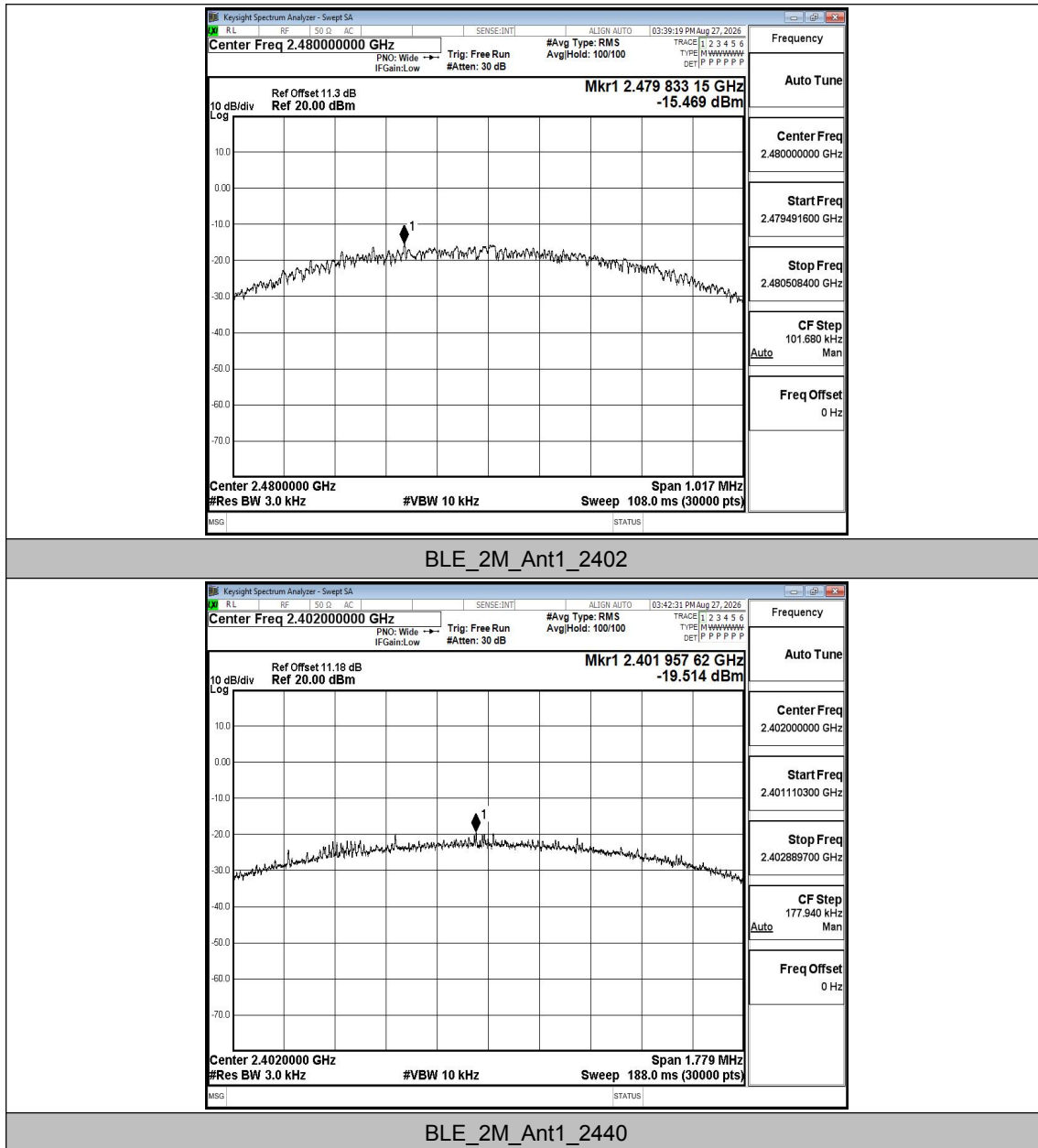
A.3 Maximum power spectral density

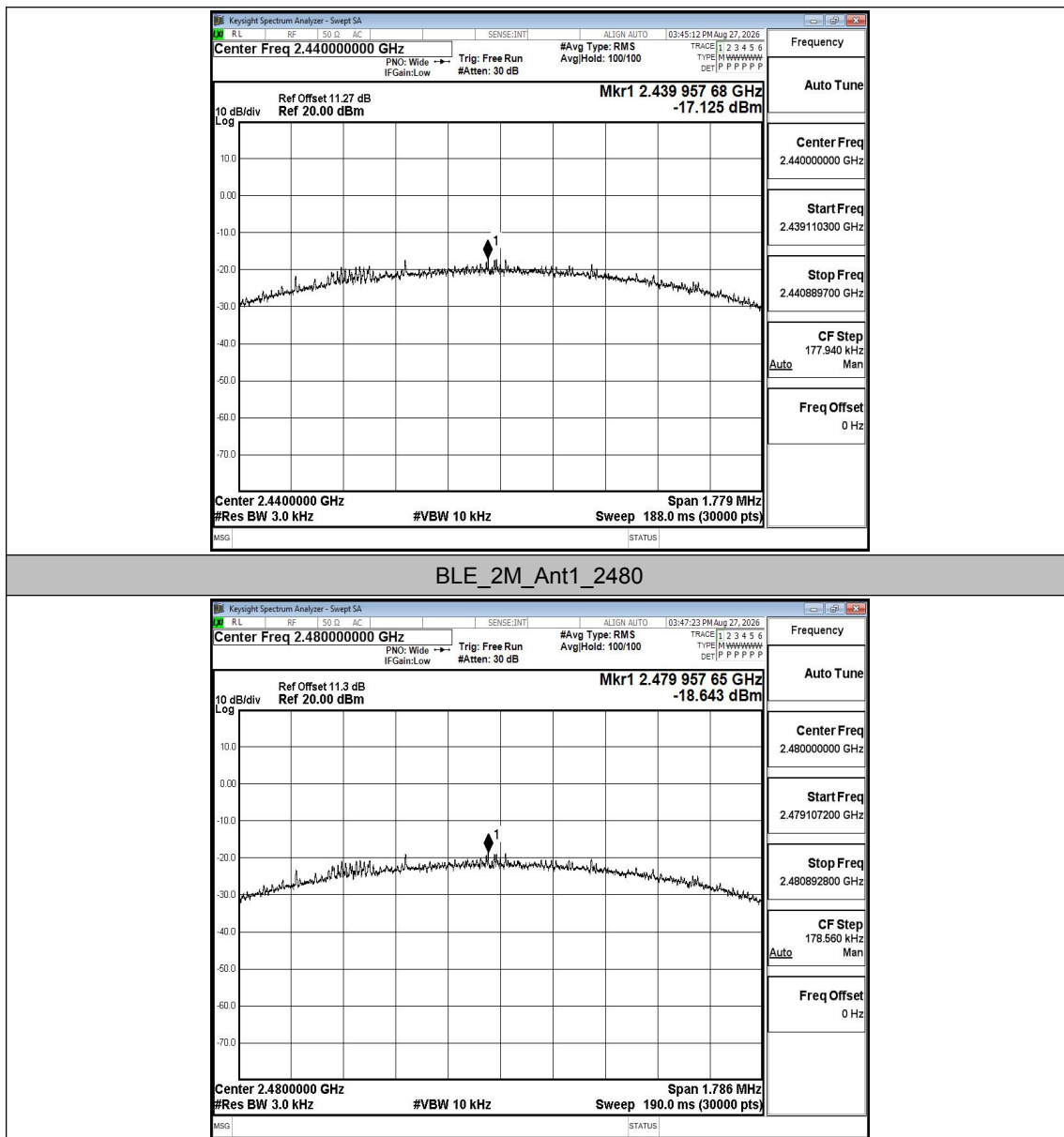
Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.42	≤8.00	PASS
		2440	-13.85	≤8.00	PASS
		2480	-15.47	≤8.00	PASS
BLE_2M	Ant1	2402	-19.51	≤8.00	PASS
		2440	-17.13	≤8.00	PASS
		2480	-18.64	≤8.00	PASS

Test Graphs





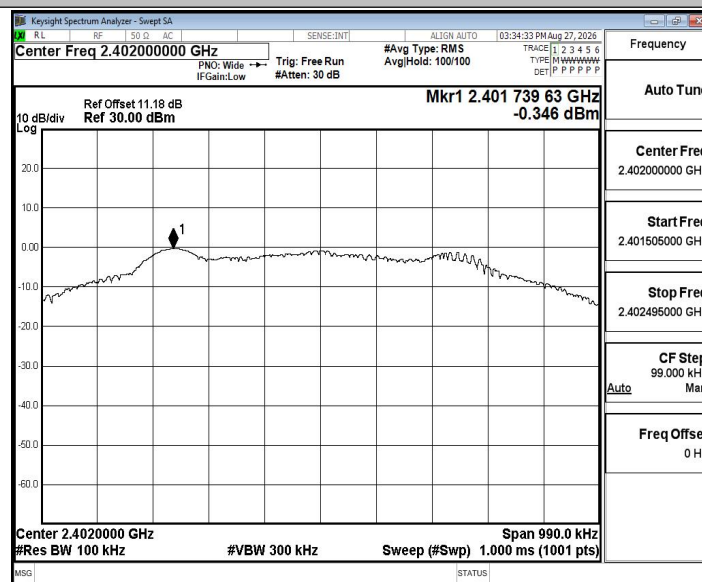


A.4 Band edge measurements

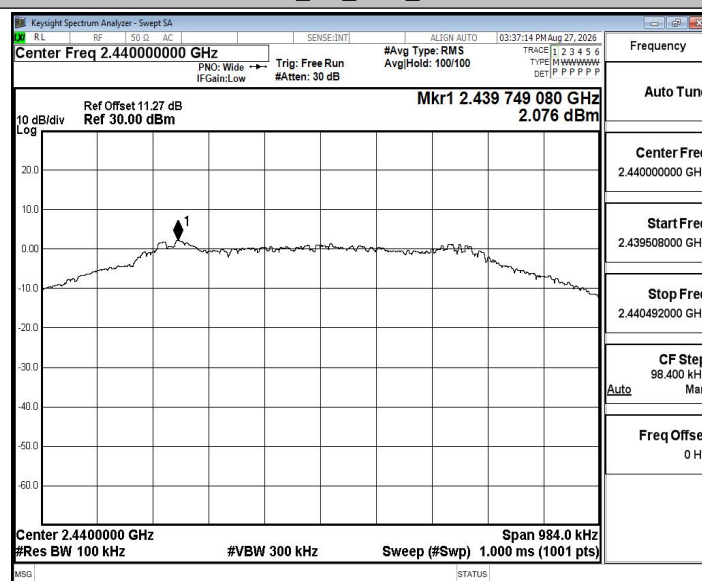
Reference level measurement

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
BLE_1M	Ant1	2402	2401.74	-0.35
		2440	2439.75	2.08
		2480	2479.74	0.57
BLE_2M	Ant1	2402	2401.49	-0.51
		2440	2439.50	1.88
		2480	2479.50	0.42

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440

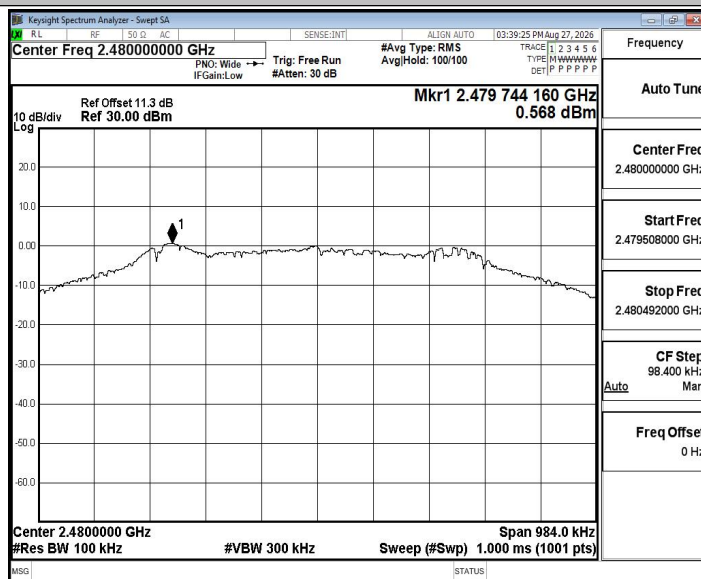


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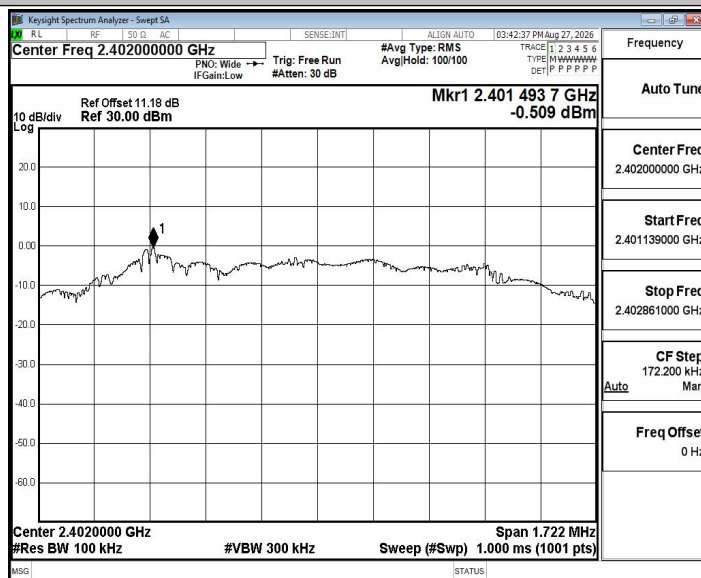
Add: No.44-1, Qianfeng North Road, Shiqi, Panyu District, Guangzhou, Guangdong, China

Tel: +(86) 020-39166689 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

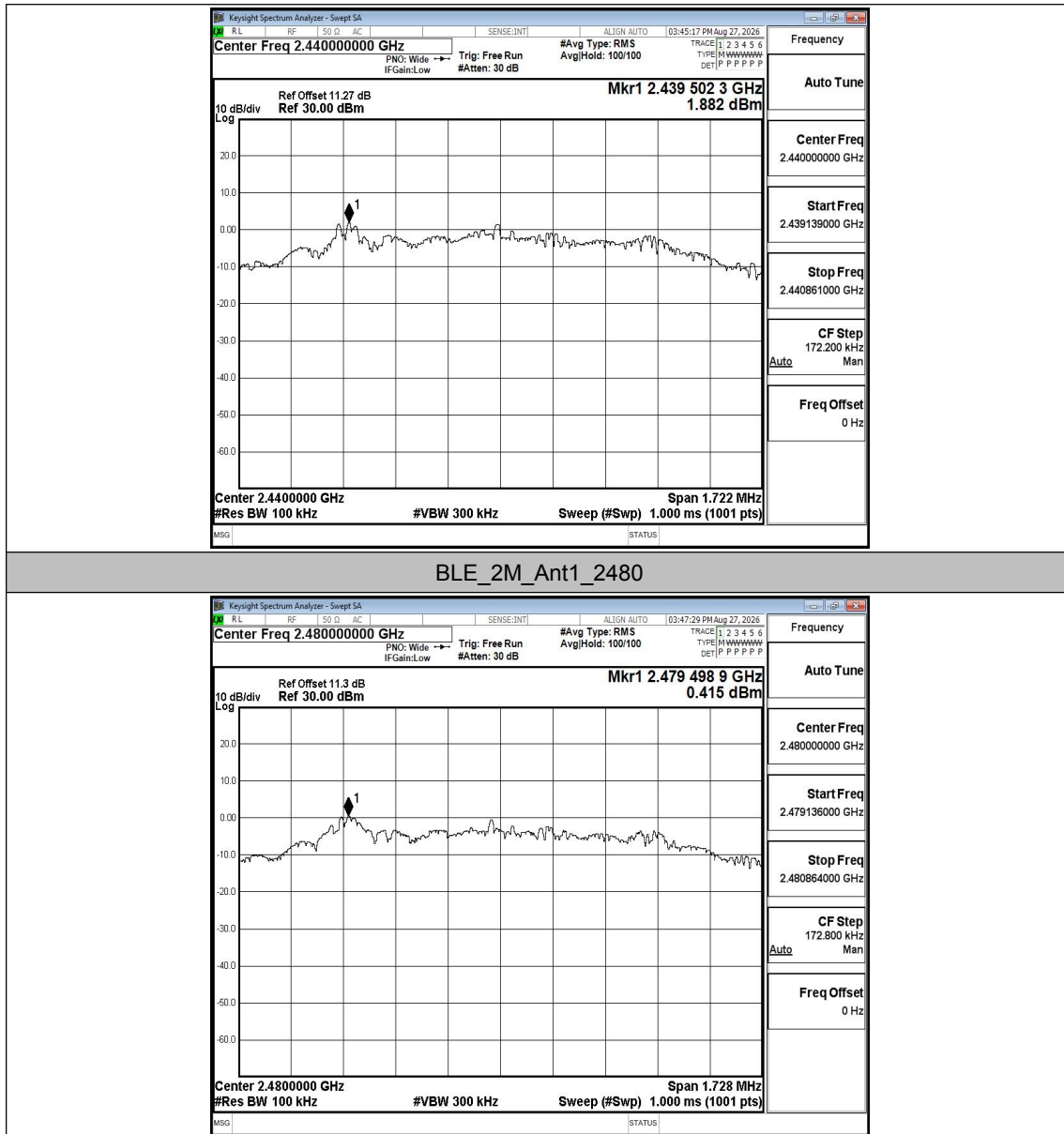
BLE_1M_Ant1_2480



BLE_2M_Ant1_2402



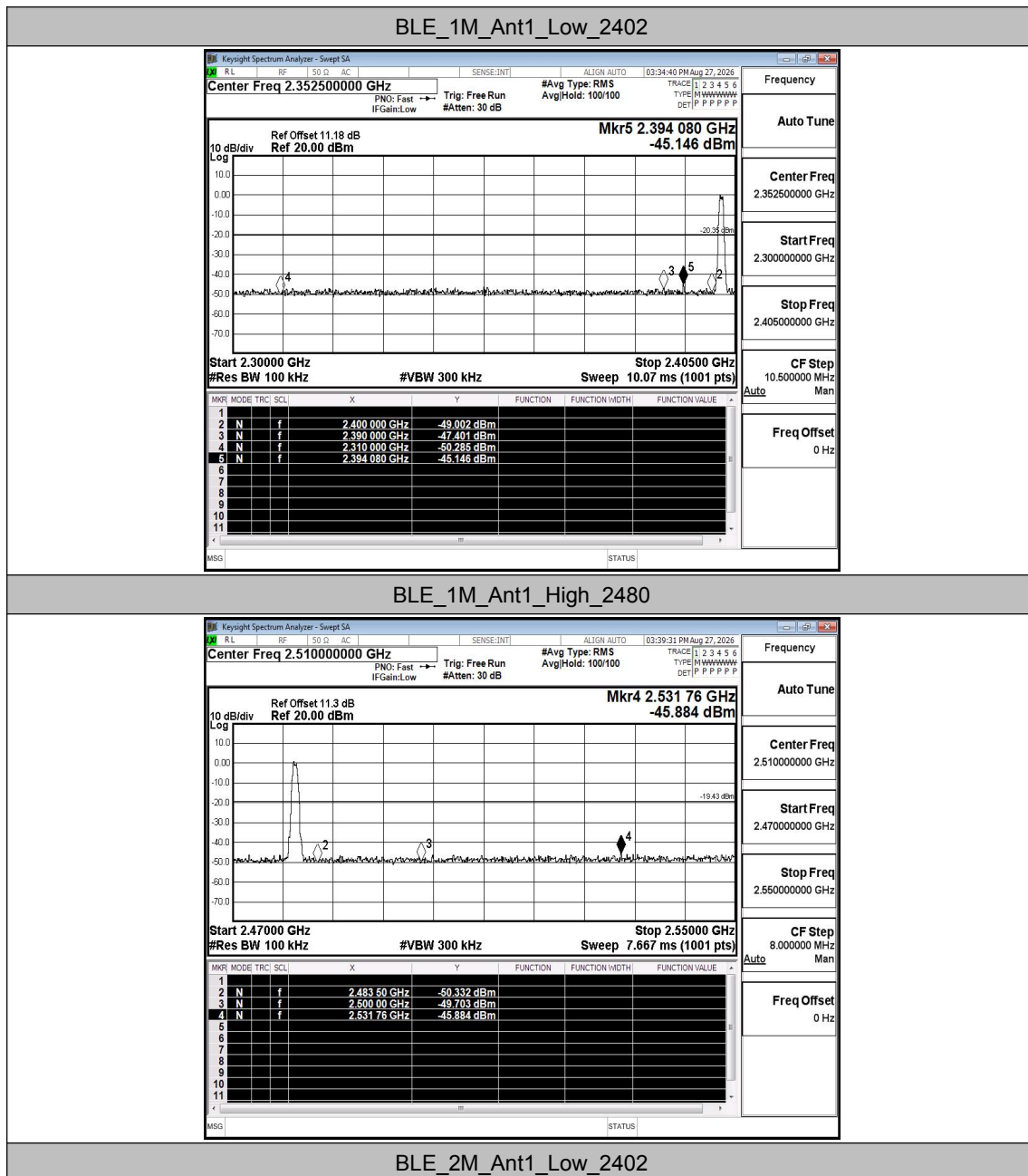
BLE_2M_Ant1_2440

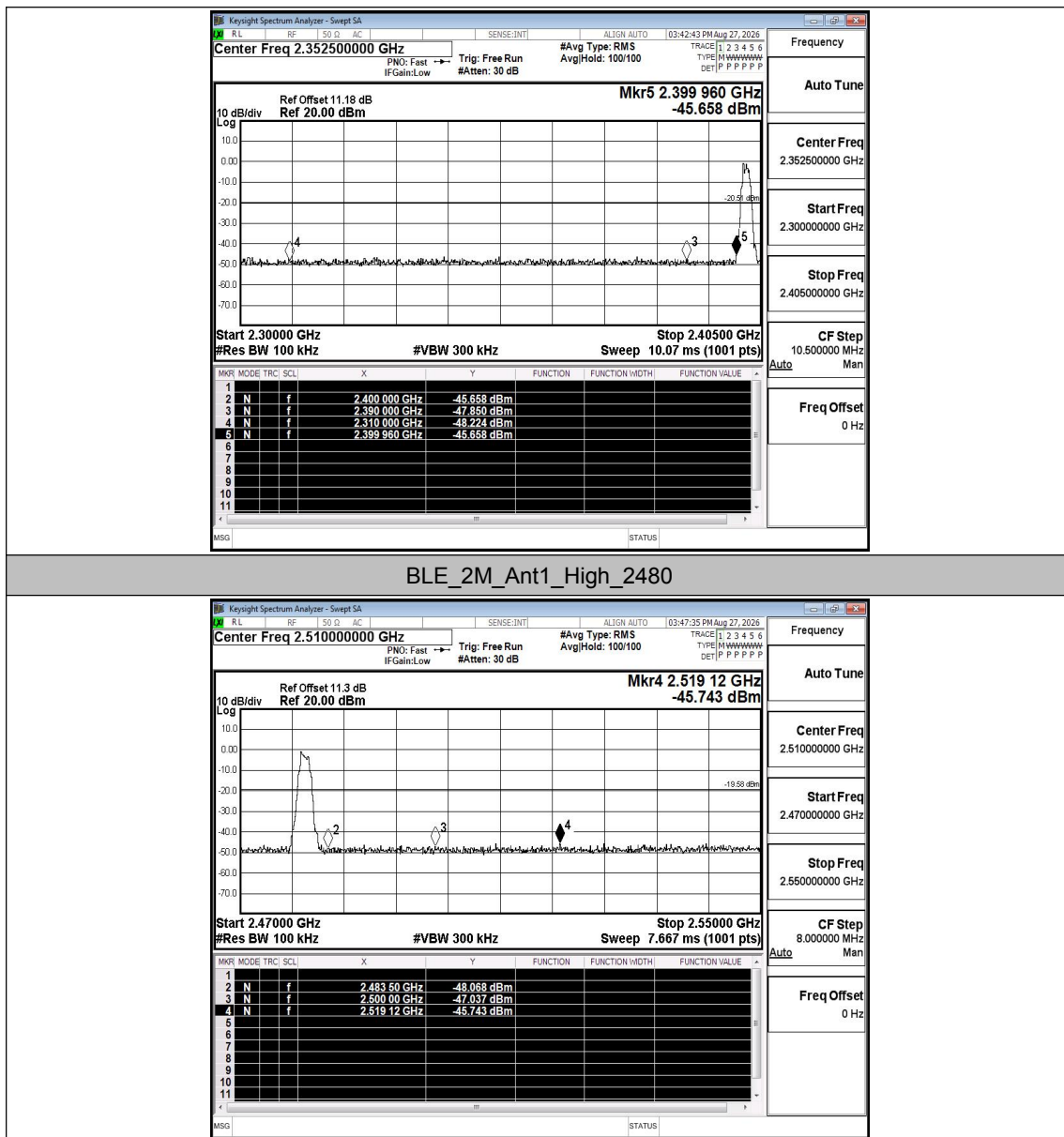


Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.35	-45.15	≤-20.35	PASS
		High	2480	0.57	-45.88	≤-19.43	PASS
BLE_2M	Ant1	Low	2402	-0.51	-45.66	≤-20.51	PASS
		High	2480	0.42	-45.74	≤-19.58	PASS

Test Graphs



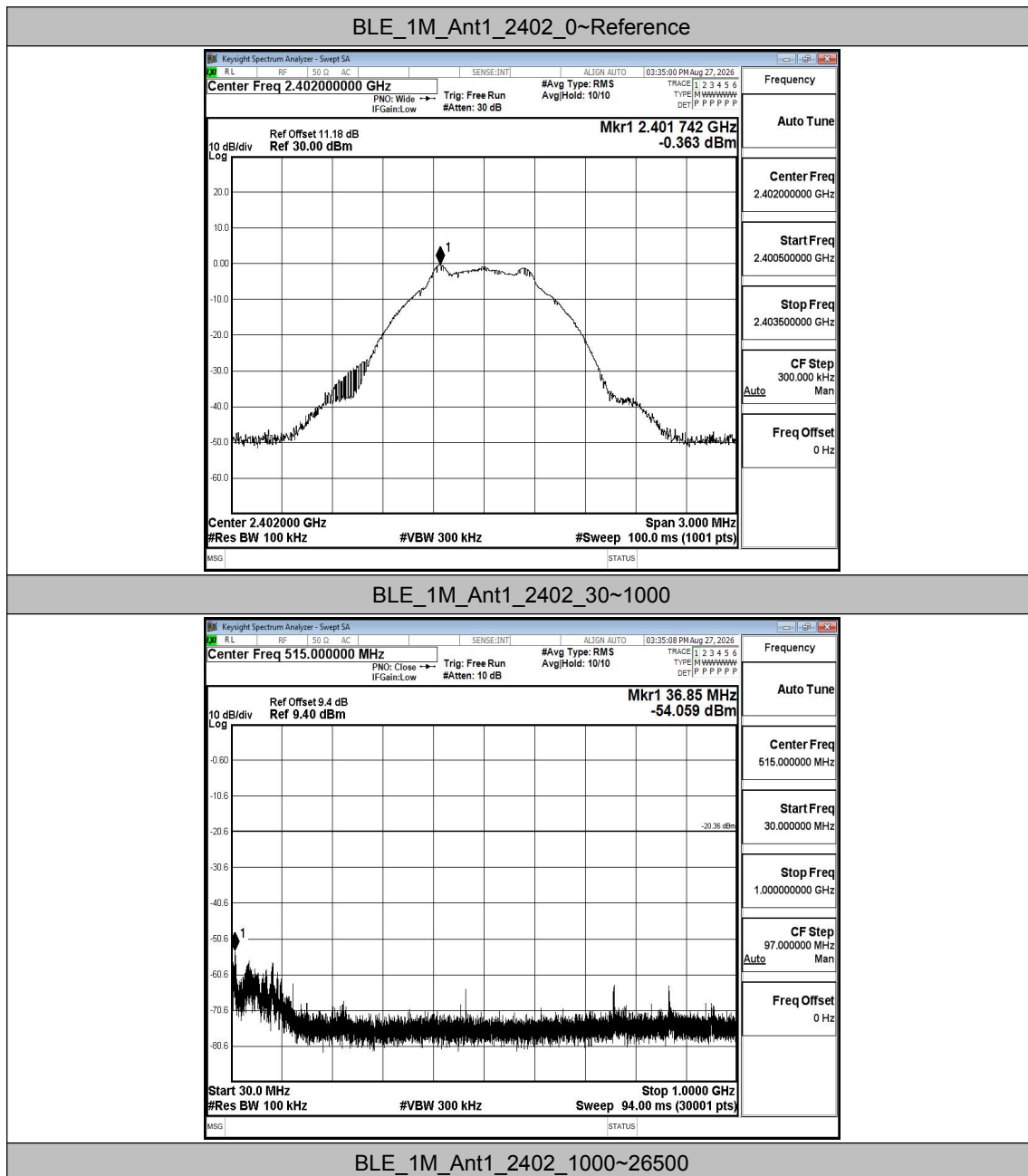


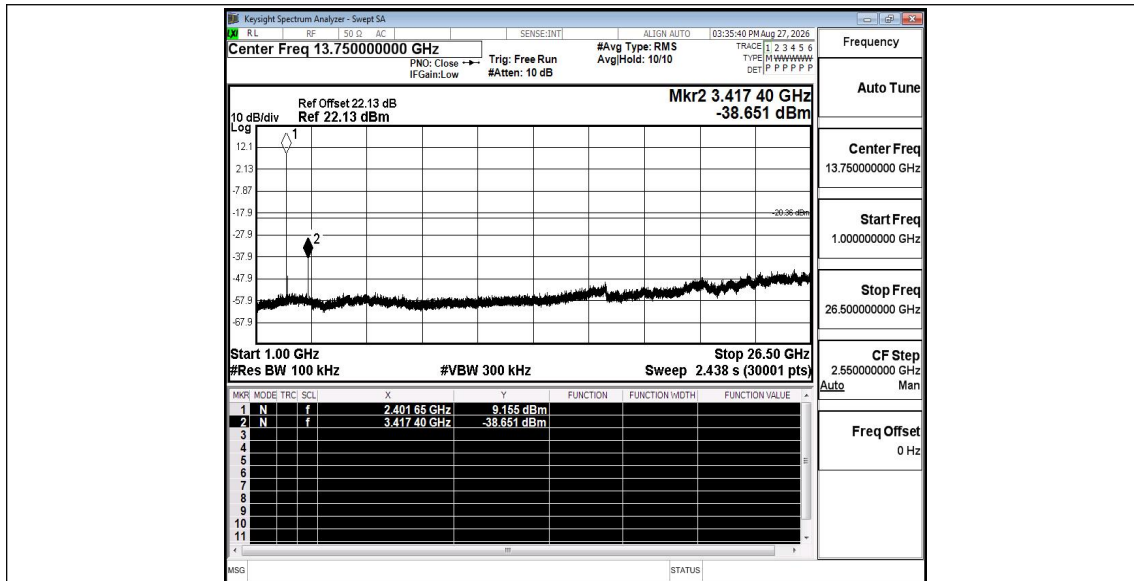
A.5 Conducted Spurious Emission

Test Result

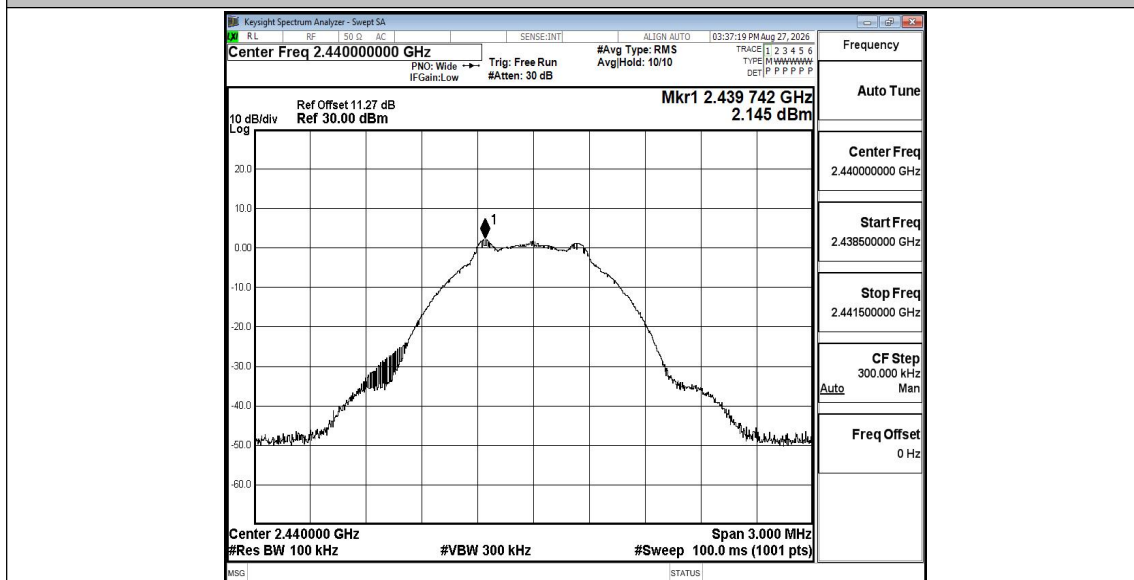
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-0.36	-0.36	---	PASS
			30~1000	-0.36	-54.06	≤-20.36	PASS
			1000~26500	-0.36	-38.65	≤-20.36	PASS
		2440	Reference	2.15	2.15	---	PASS
			30~1000	2.15	-54.3	≤-17.85	PASS
			1000~26500	2.15	-44.51	≤-17.85	PASS
		2480	Reference	0.54	0.54	---	PASS
			30~1000	0.54	-54.61	≤-19.46	PASS
			1000~26500	0.54	-44.6	≤-19.46	PASS
BLE_2M	Ant1	2402	Reference	-0.47	-0.47	---	PASS
			30~1000	-0.47	-53.7	≤-20.47	PASS
			1000~26500	-0.47	-44.59	≤-20.47	PASS
		2440	Reference	2.03	2.03	---	PASS
			30~1000	2.03	-52.6	≤-17.97	PASS
			1000~26500	2.03	-44.43	≤-17.97	PASS
		2480	Reference	0.46	0.46	---	PASS
			30~1000	0.46	-52.77	≤-19.54	PASS
			1000~26500	0.46	-44.24	≤-19.54	PASS

Test Graphs





BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

