

Appendix A

RF Test Data for BT LE (Conducted Measurement)

Product Name: LED Garage Light

Test Model: RGB-Ga-005

Environmental Conditions

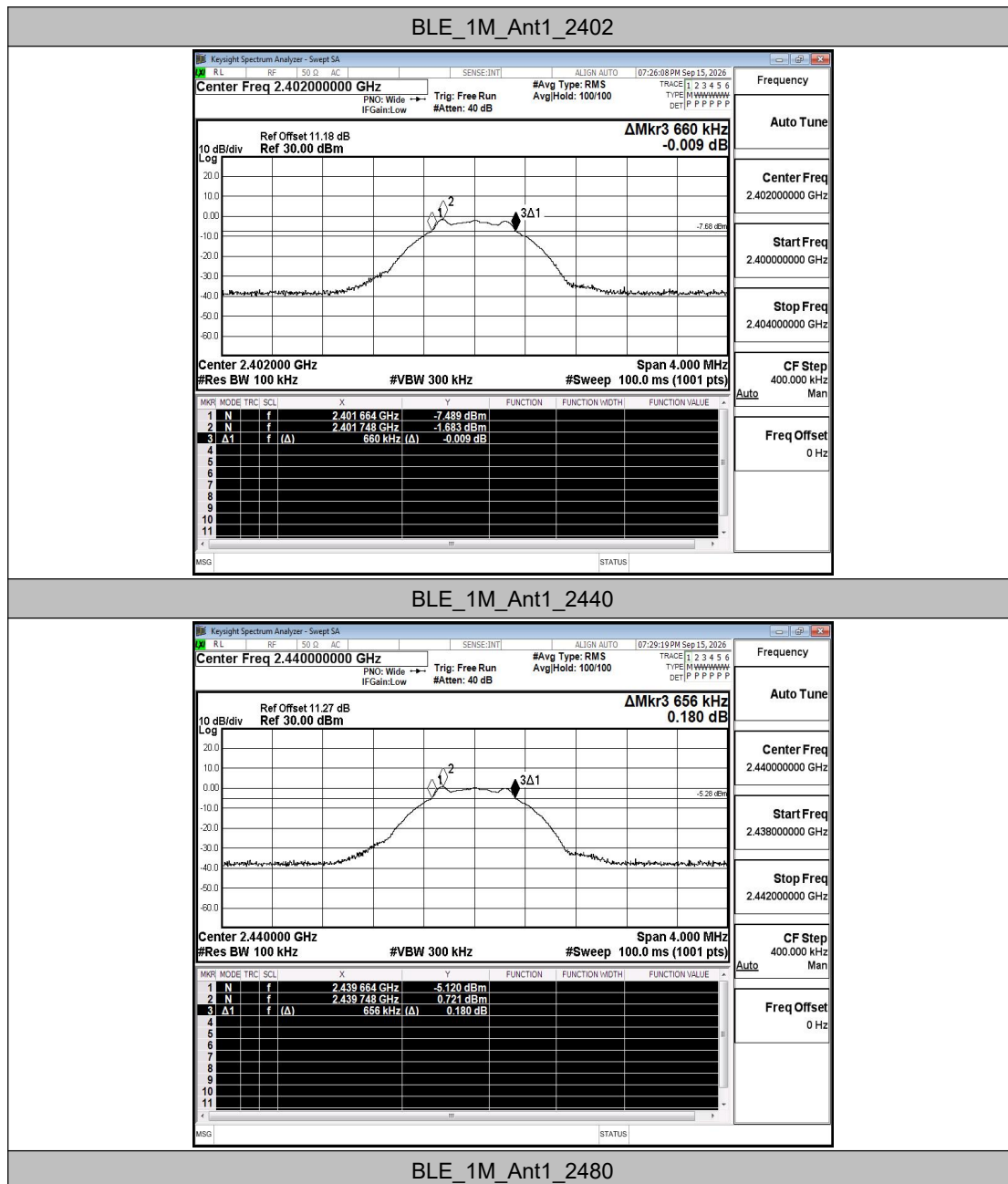
Temperature:	23.2°C
Relative Humidity:	54.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

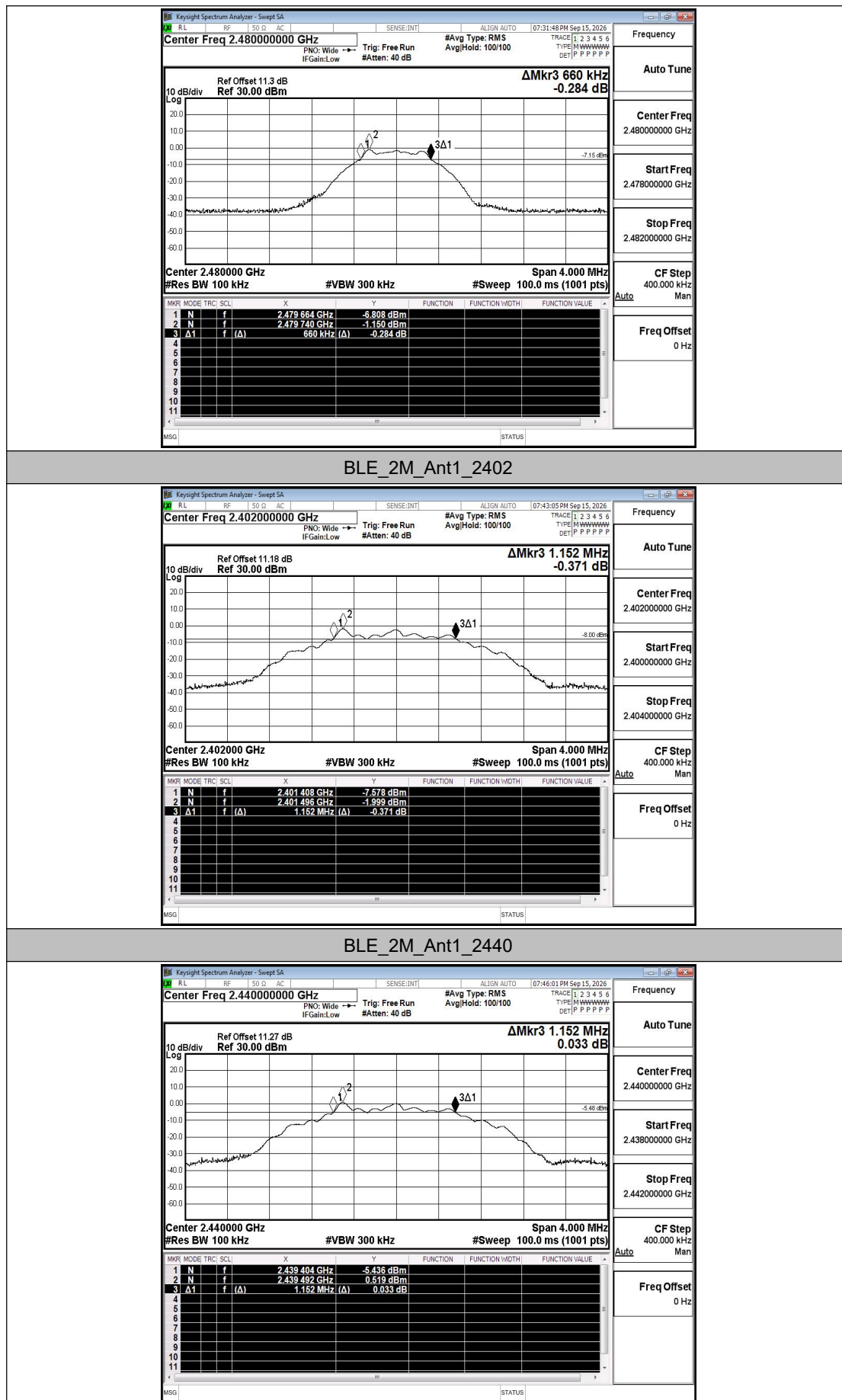
A.1 DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.660	2401.664	2402.324	0.5	PASS
		2440	0.656	2439.664	2440.320	0.5	PASS
		2480	0.660	2479.664	2480.324	0.5	PASS
BLE_2M	Ant1	2402	1.152	2401.408	2402.560	0.5	PASS
		2440	1.152	2439.404	2440.556	0.5	PASS
		2480	1.152	2479.408	2480.560	0.5	PASS

Test Graphs

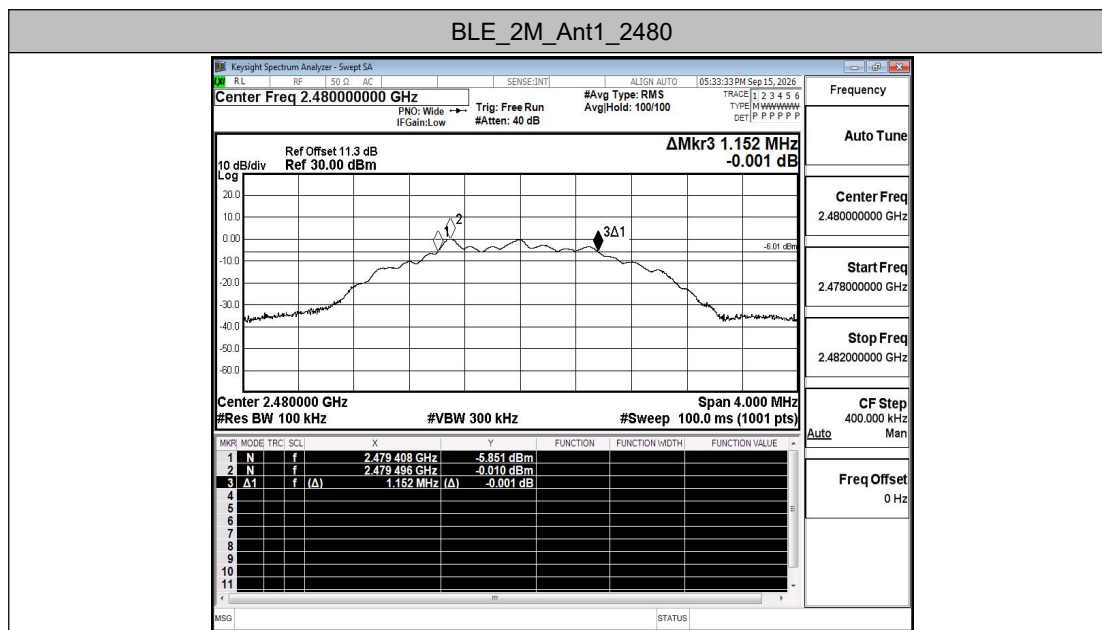




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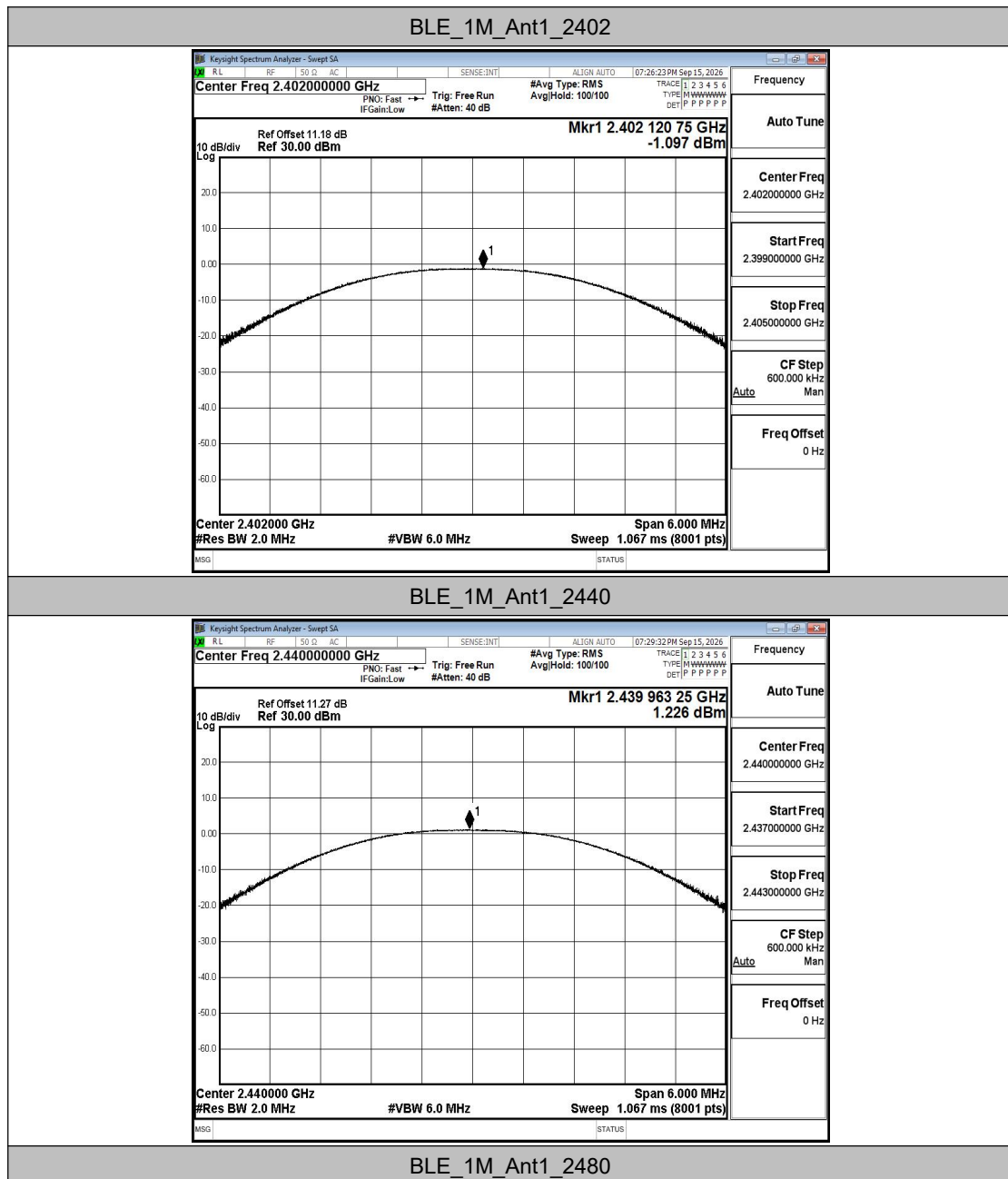


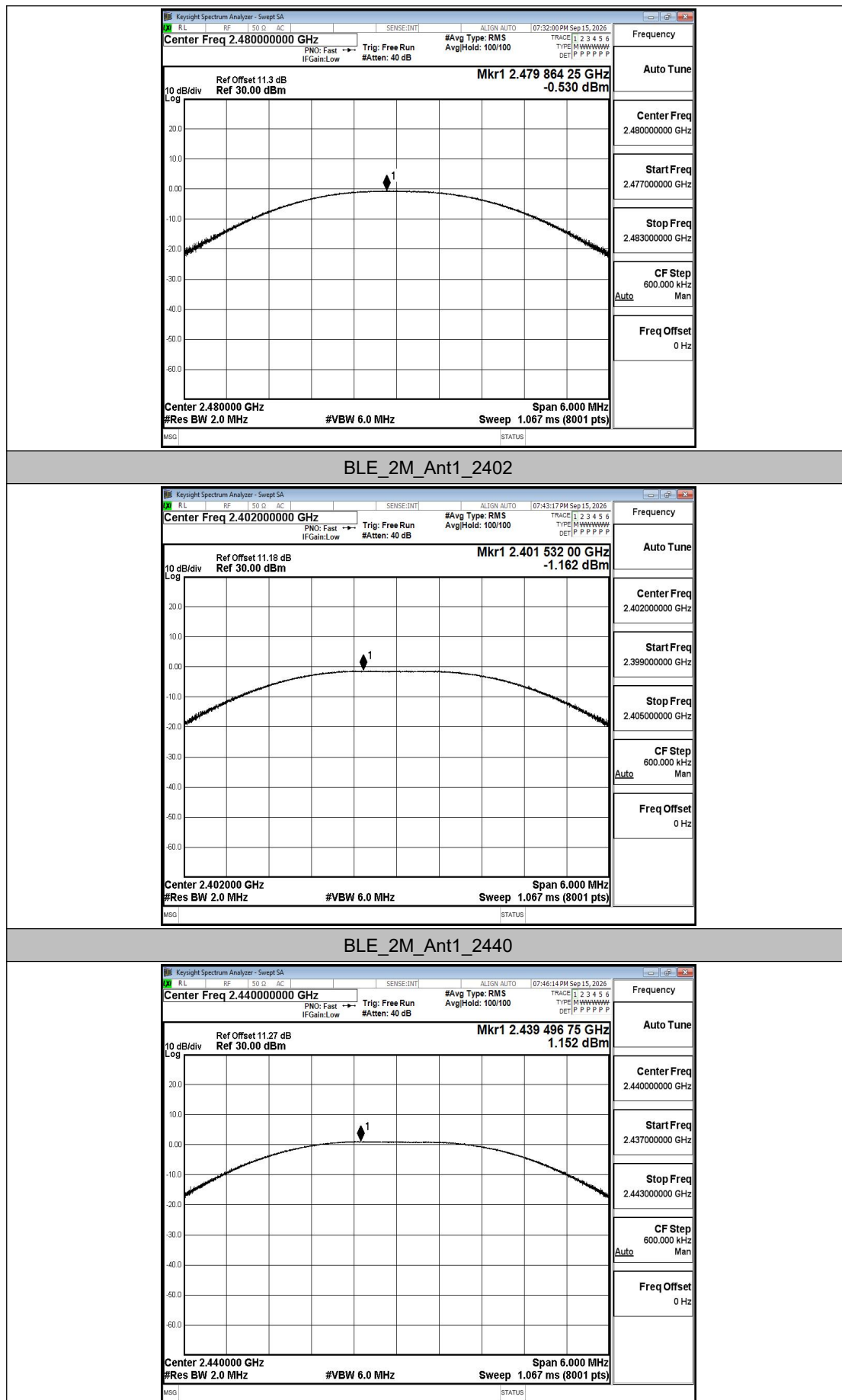
A.2 Maximum Peak conducted output power

Test Result Peak

TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-1.10	≤30	PASS
		2440	1.23	≤30	PASS
		2480	-0.53	≤30	PASS
BLE_2M	Ant1	2402	-1.16	≤30	PASS
		2440	1.15	≤30	PASS
		2480	0.72	≤30	PASS

Test Graphs Peak

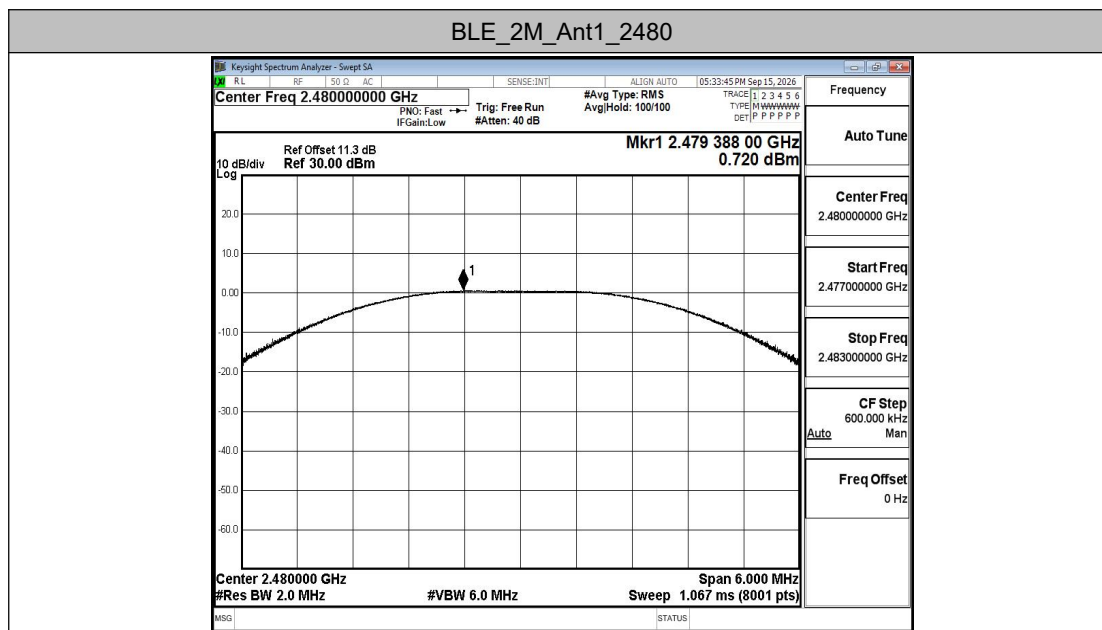




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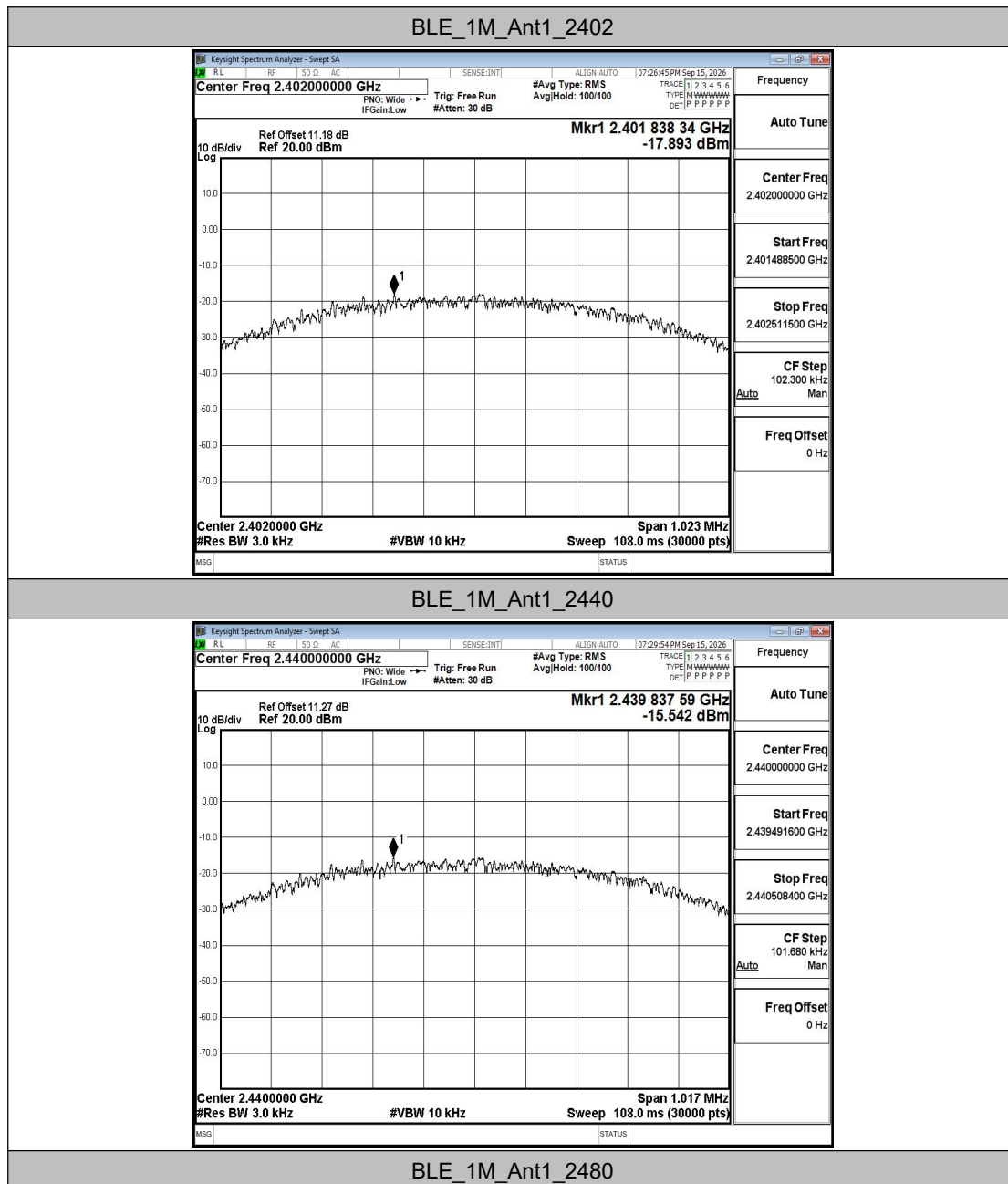


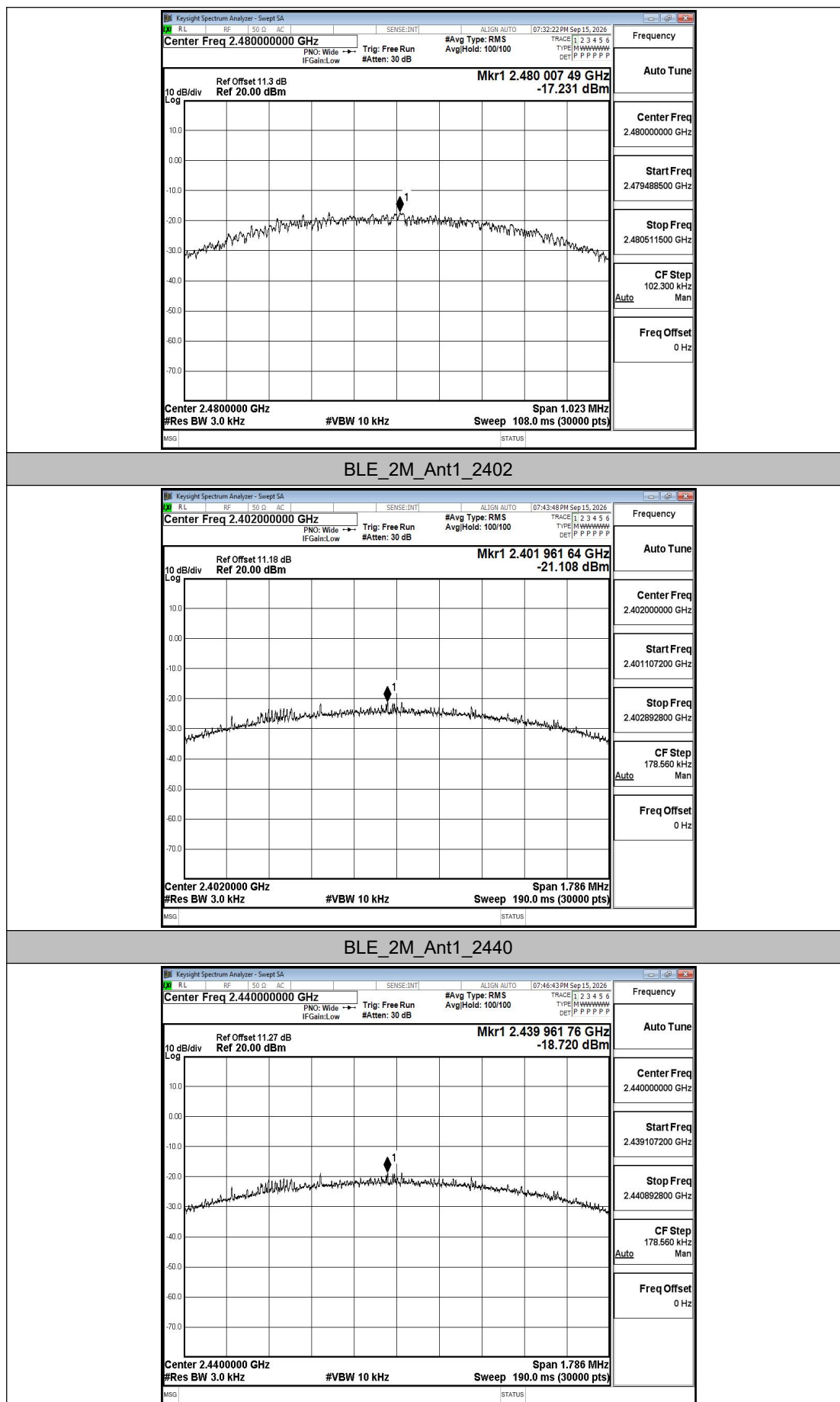
A.3 Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-17.89	≤8.00	PASS
		2440	-15.54	≤8.00	PASS
		2480	-17.23	≤8.00	PASS
BLE_2M	Ant1	2402	-21.11	≤8.00	PASS
		2440	-18.72	≤8.00	PASS
		2480	-19.13	≤8.00	PASS

Test Graphs

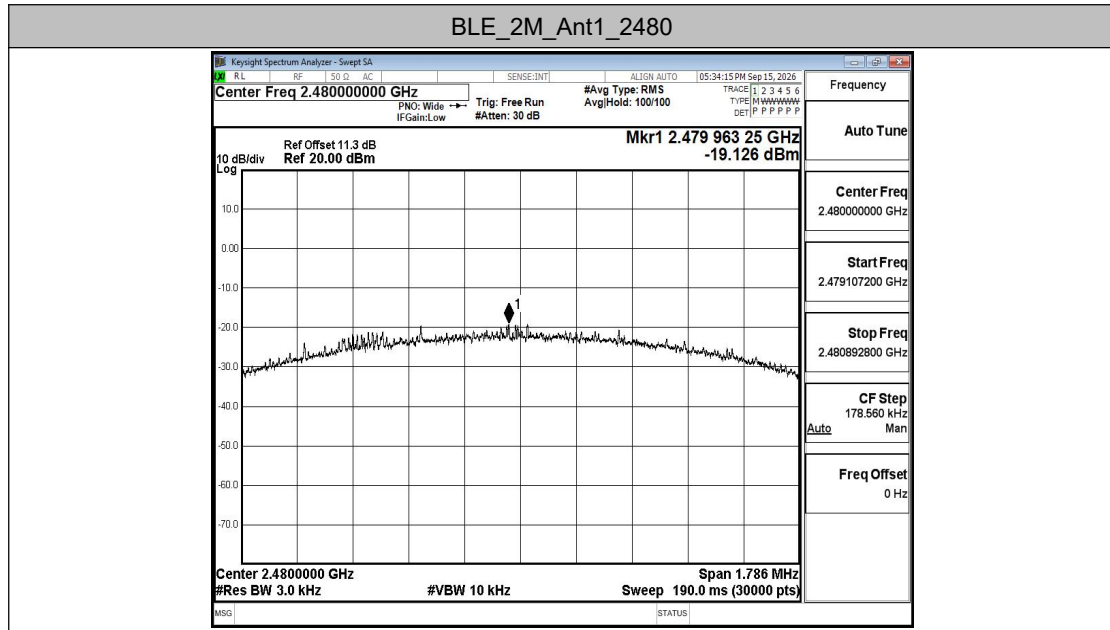




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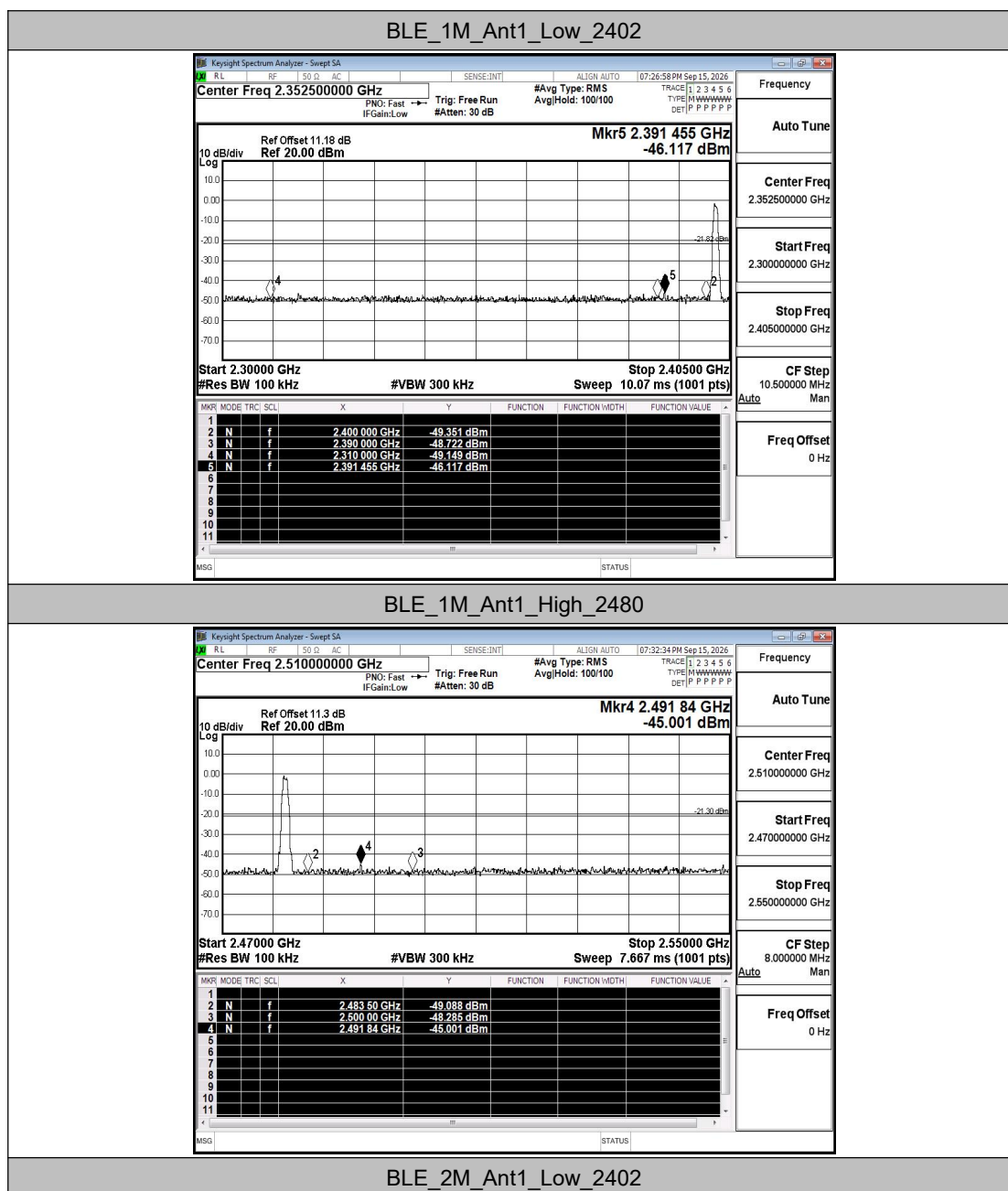


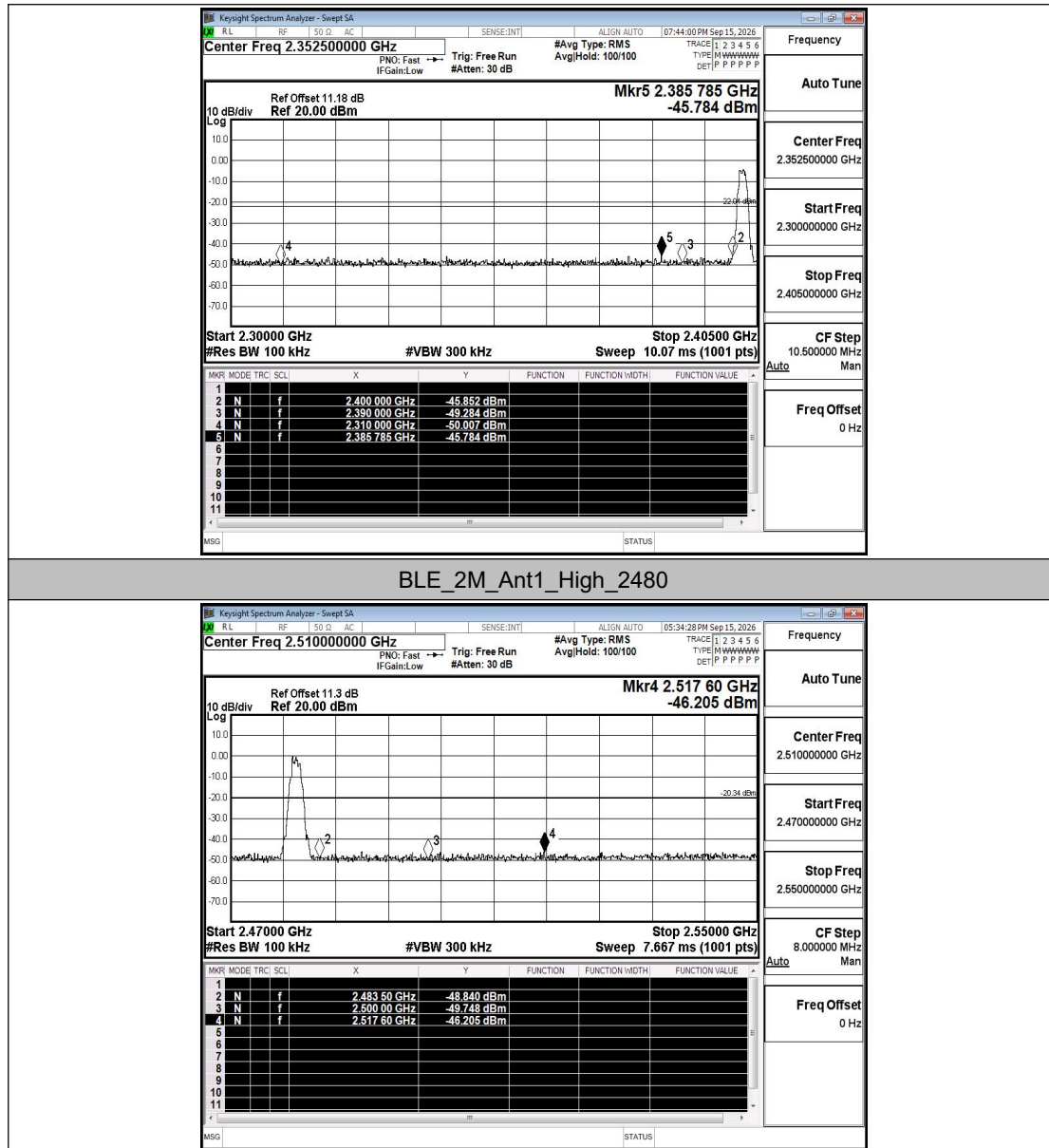
A.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.82	-46.12	≤ -21.82	PASS
		High	2480	-1.30	-45	≤ -21.3	PASS
BLE_2M	Ant1	Low	2402	-2.04	-45.78	≤ -22.04	PASS
		High	2480	-0.34	-46.21	≤ -20.34	PASS

Test Graphs



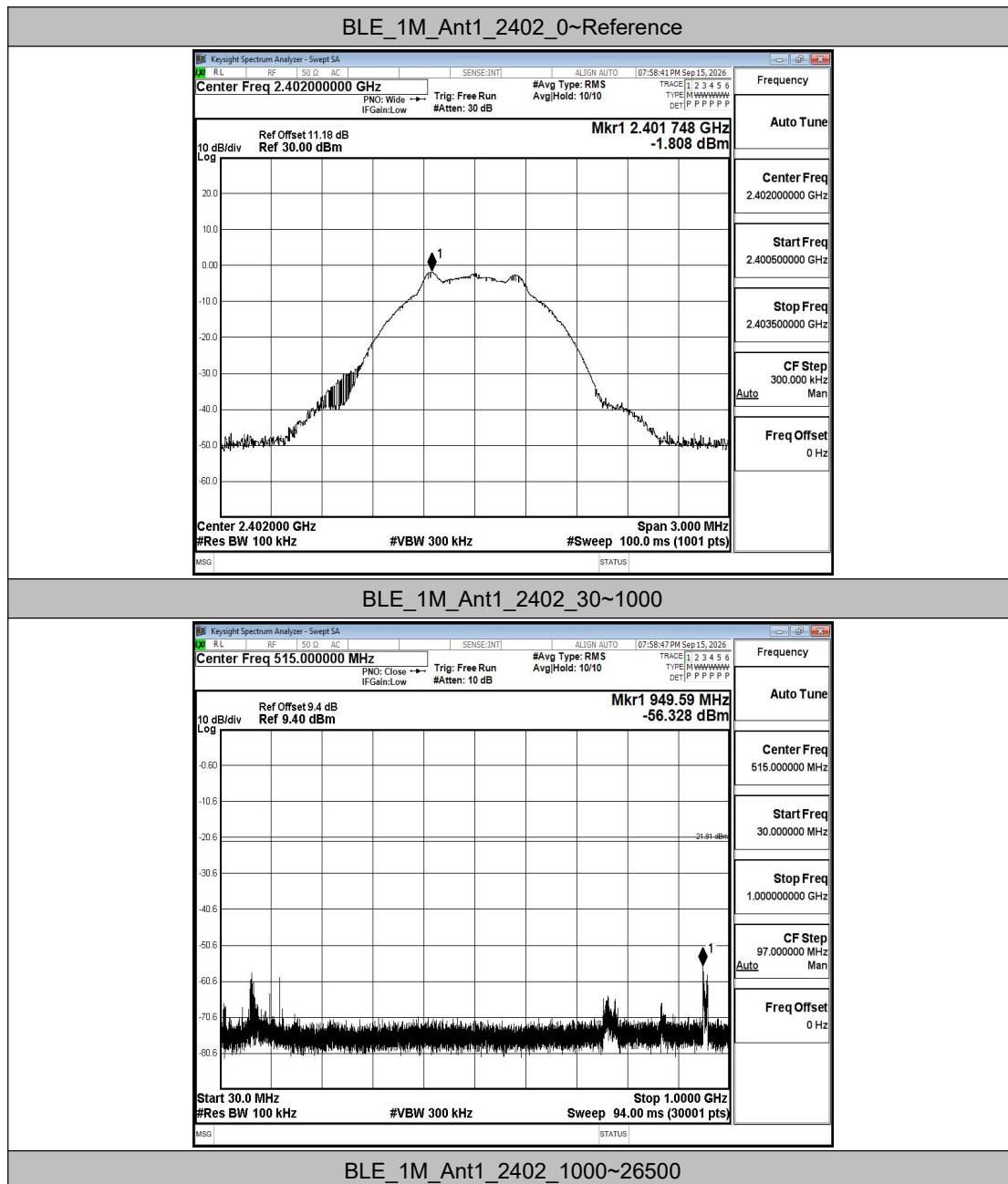


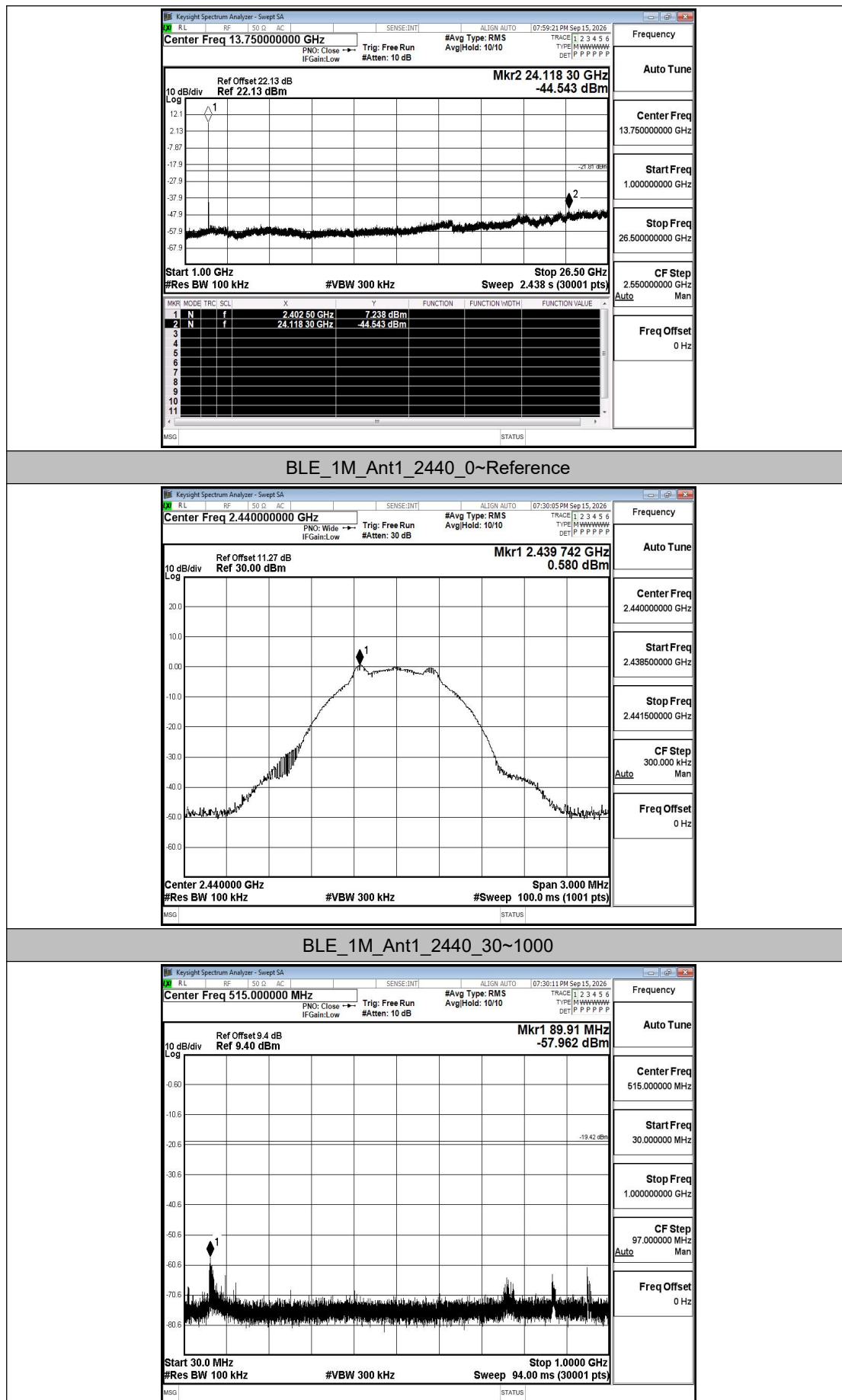
A.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-1.81	-1.81	---	PASS
			30~1000	-1.81	-56.33	≤-21.81	PASS
			1000~26500	-1.81	-44.54	≤-21.81	PASS
		2440	Reference	0.58	0.58	---	PASS
			30~1000	0.58	-57.96	≤-19.42	PASS
			1000~26500	0.58	-43.86	≤-19.42	PASS
		2480	Reference	-1.18	-1.18	---	PASS
			30~1000	-1.18	-58.28	≤-21.18	PASS
			1000~26500	-1.18	-44.27	≤-21.18	PASS
BLE_2M	Ant1	2402	Reference	-2.05	-2.05	---	PASS
			30~1000	-2.05	-59.91	≤-22.05	PASS
			1000~26500	-2.05	-44.79	≤-22.05	PASS
		2440	Reference	0.42	0.42	---	PASS
			30~1000	0.42	-59.96	≤-19.58	PASS
			1000~26500	0.42	-19.71	≤-19.58	PASS
		2480	Reference	-0.08	-0.08	---	PASS
			30~1000	-0.08	-53.76	≤-20.08	PASS
			1000~26500	-0.08	-44.91	≤-20.08	PASS

Test Graphs



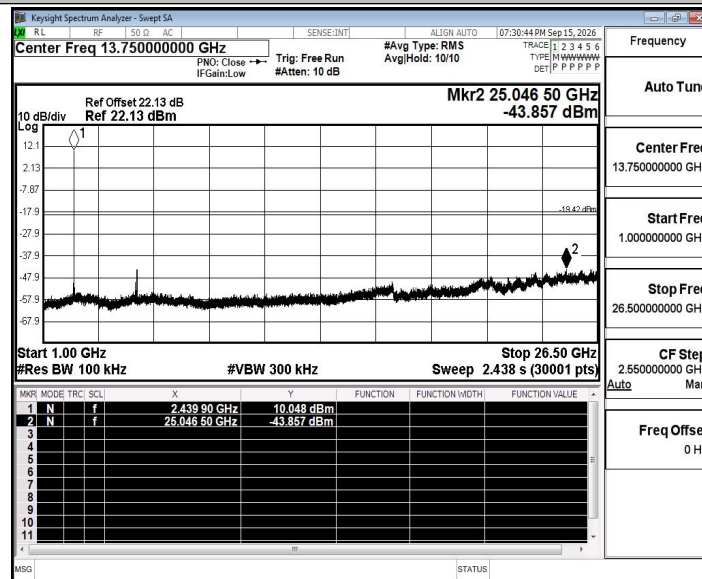


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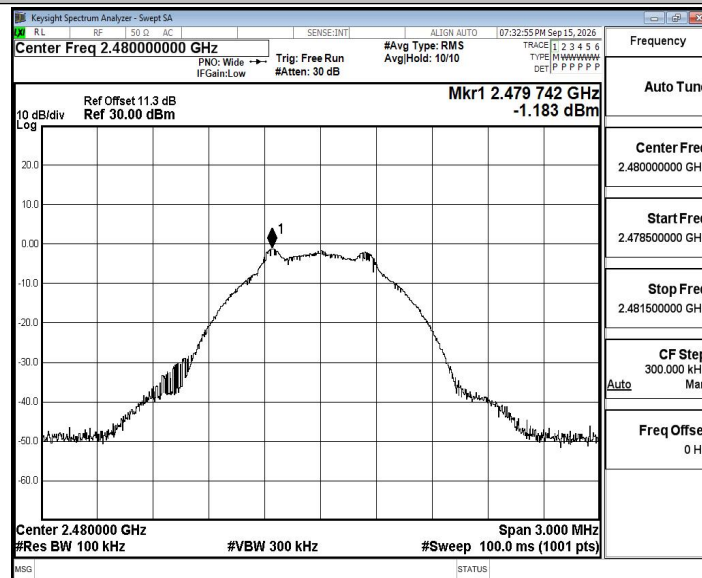
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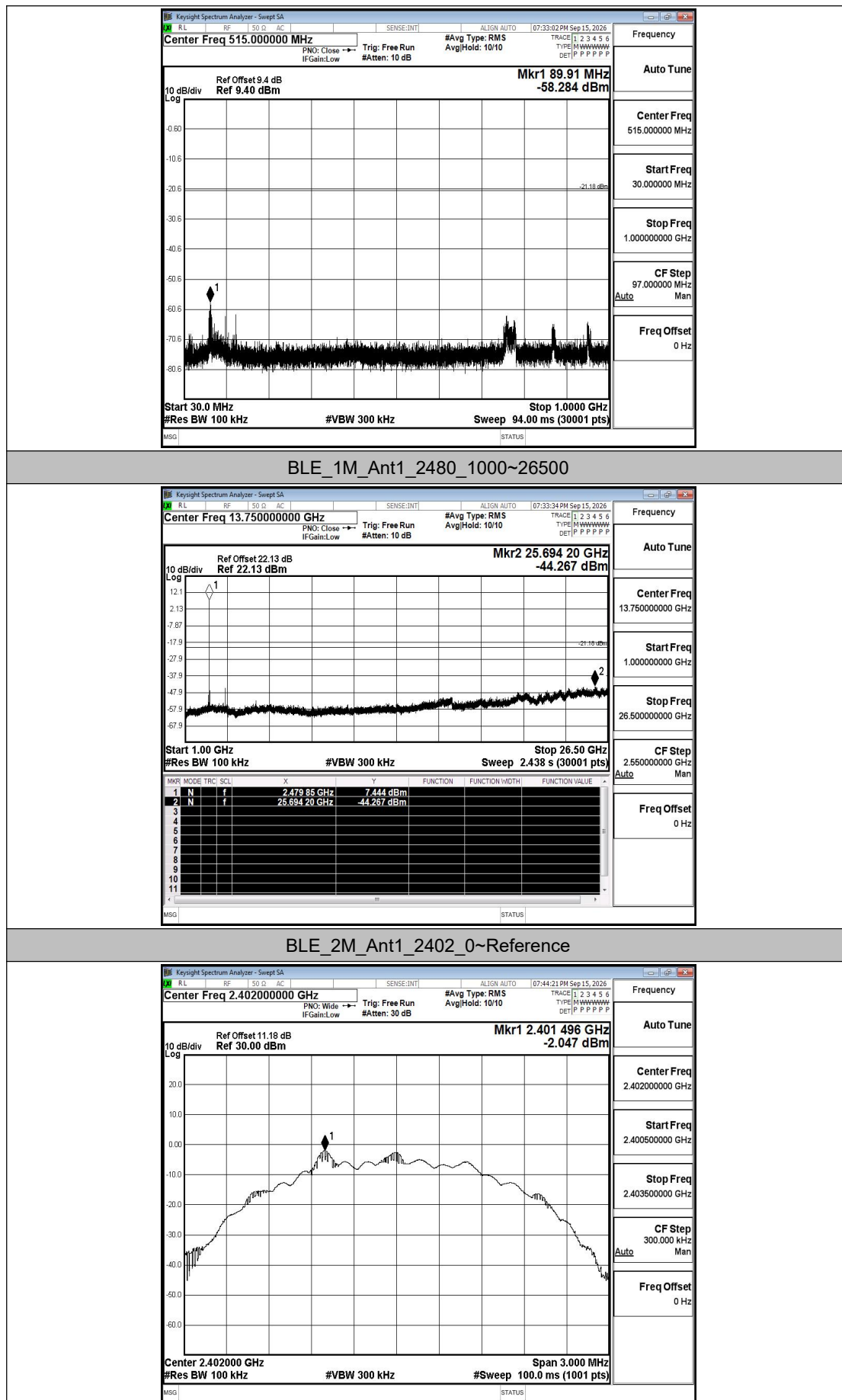
BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000

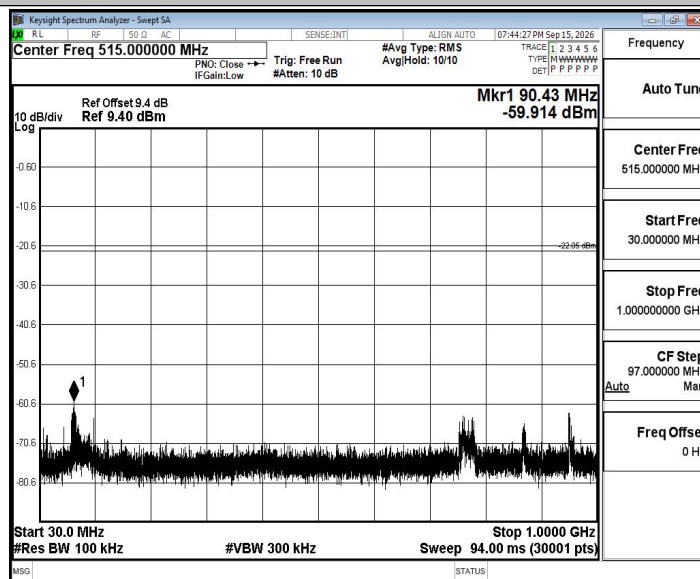


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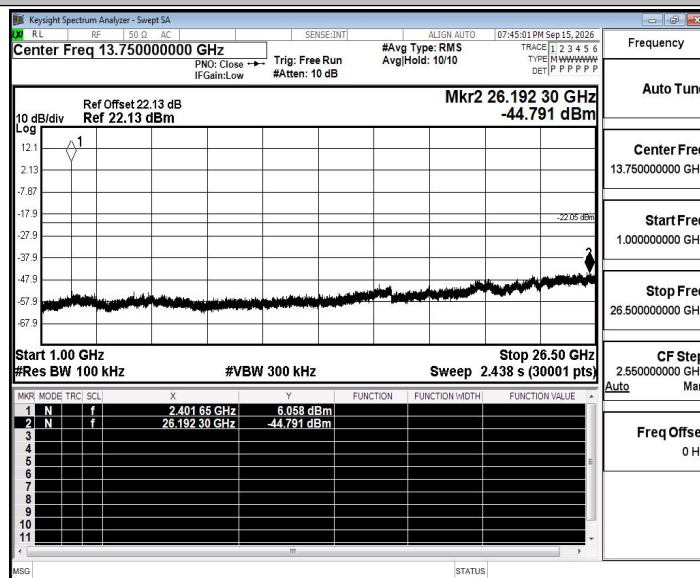
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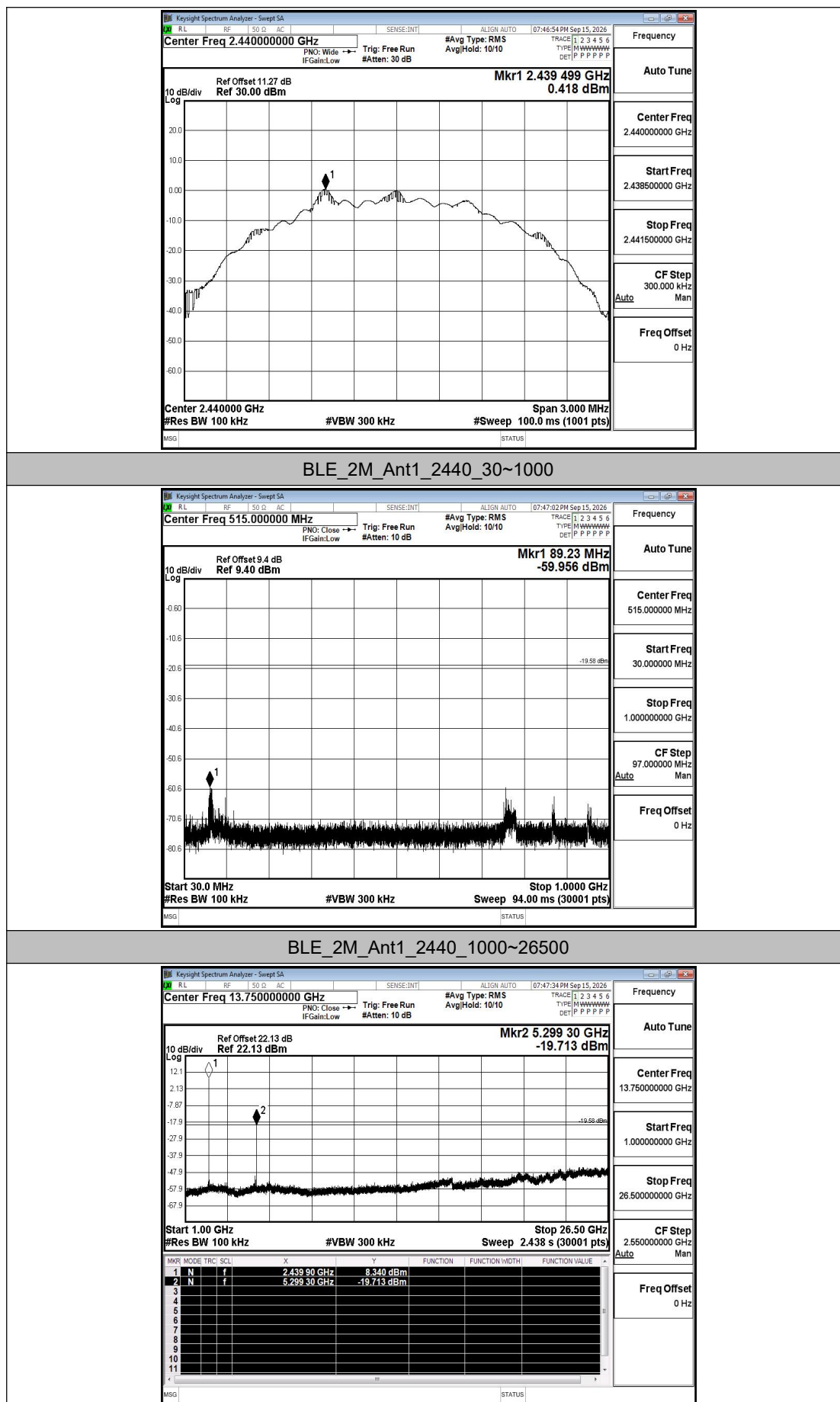
BLE_2M_Ant1_2402_30~1000



BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

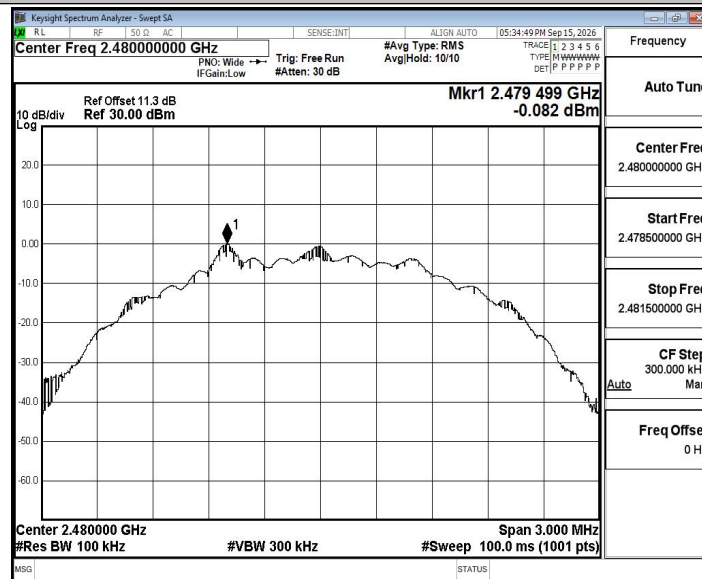


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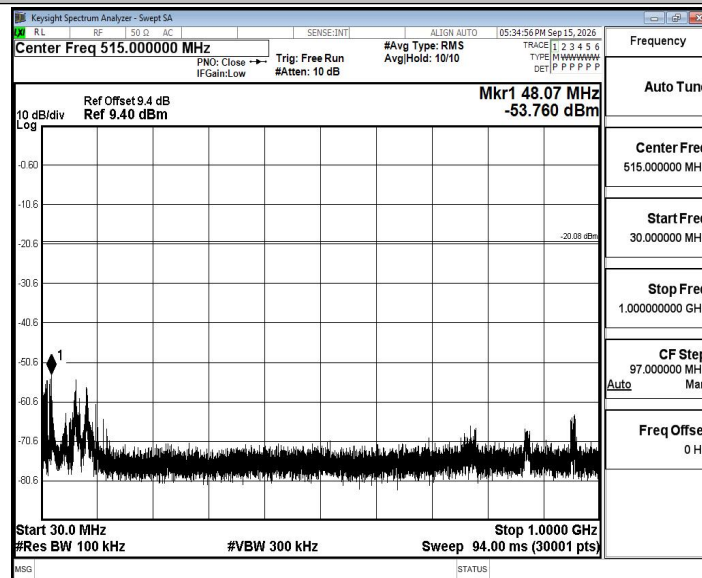
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BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000



BLE_2M_Ant1_2480_1000~26500