

## RF Test Data for BT(BLE) (Conducted Measurement)

Product Name: 4K HDMI Dongle

Trade Mark: N/A

Test Model: SN8BKCB

FCC ID: 2AOVU-SN8BKCX

### Environmental Conditions

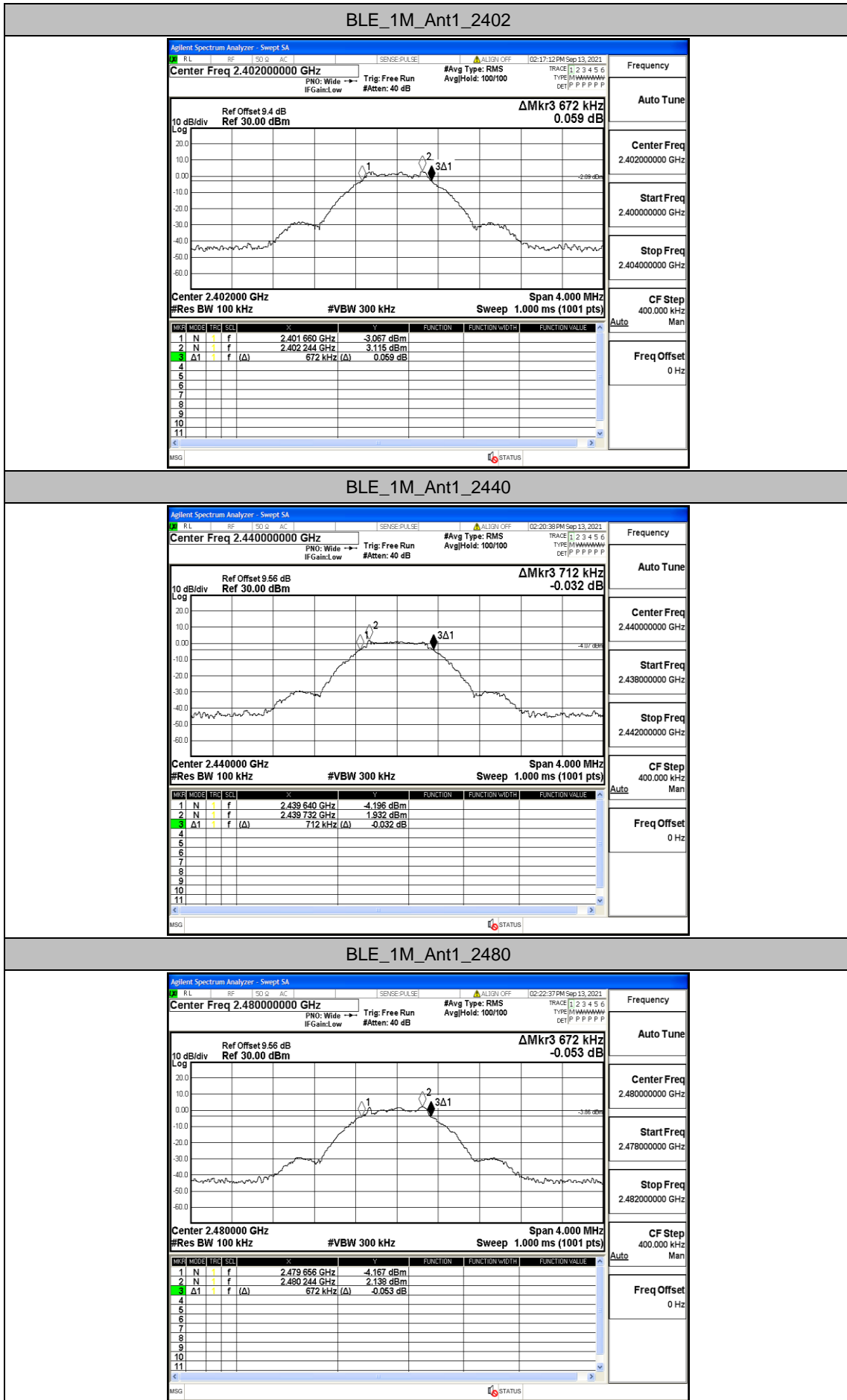
Temperature:	25.5°C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

### Appendix A: DTS Bandwidth

#### Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.672	2401.660	2402.332	0.5	PASS
		2440	0.712	2439.640	2440.352	0.5	PASS
		2480	0.672	2479.656	2480.328	0.5	PASS

Test Graphs

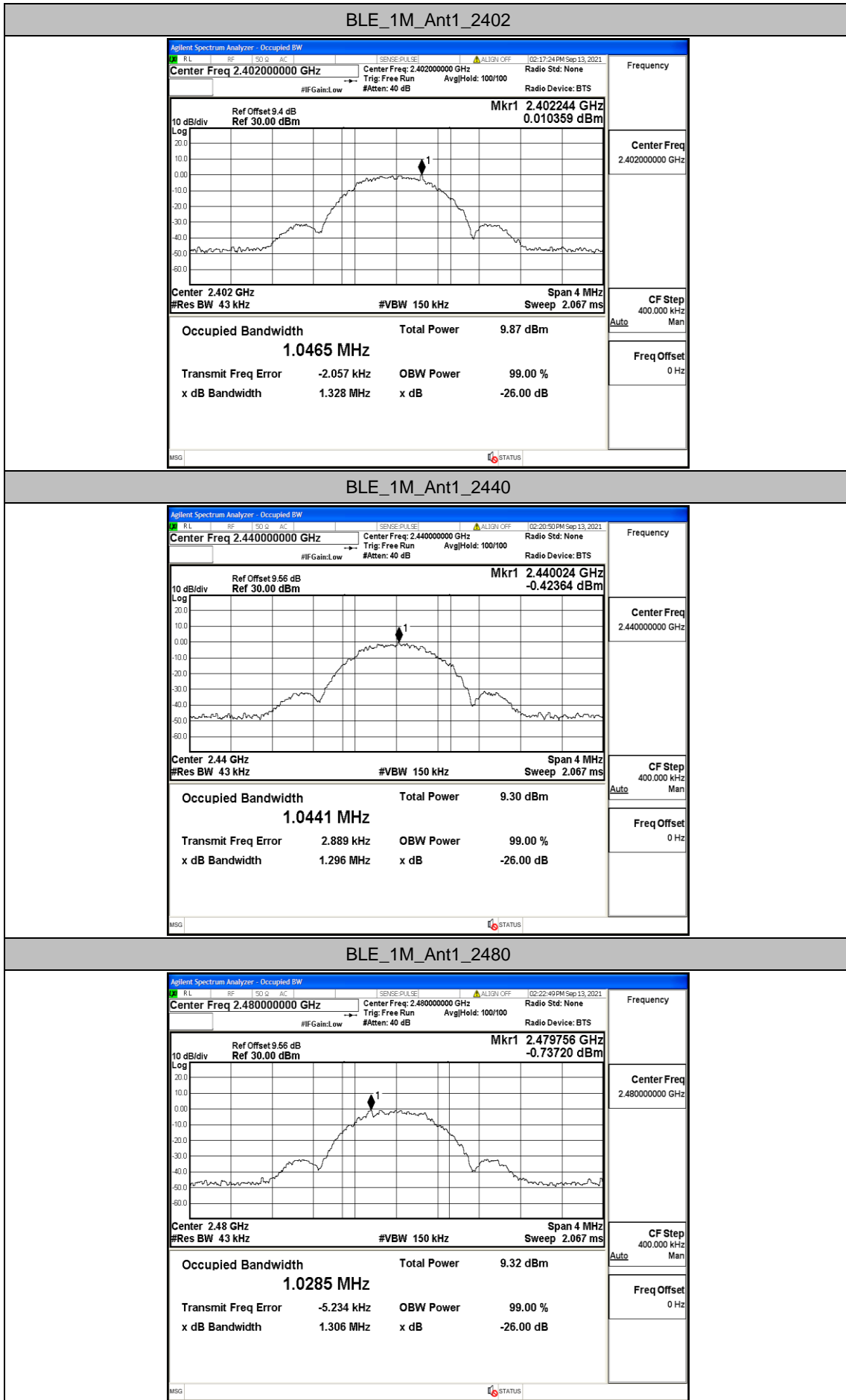


## Appendix B: Occupied Channel Bandwidth

### Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0465	2401.475	2402.521	---	PASS
		2440	1.0441	2439.481	2440.525	---	PASS
		2480	1.0285	2479.481	2480.509	---	PASS

Test Graphs

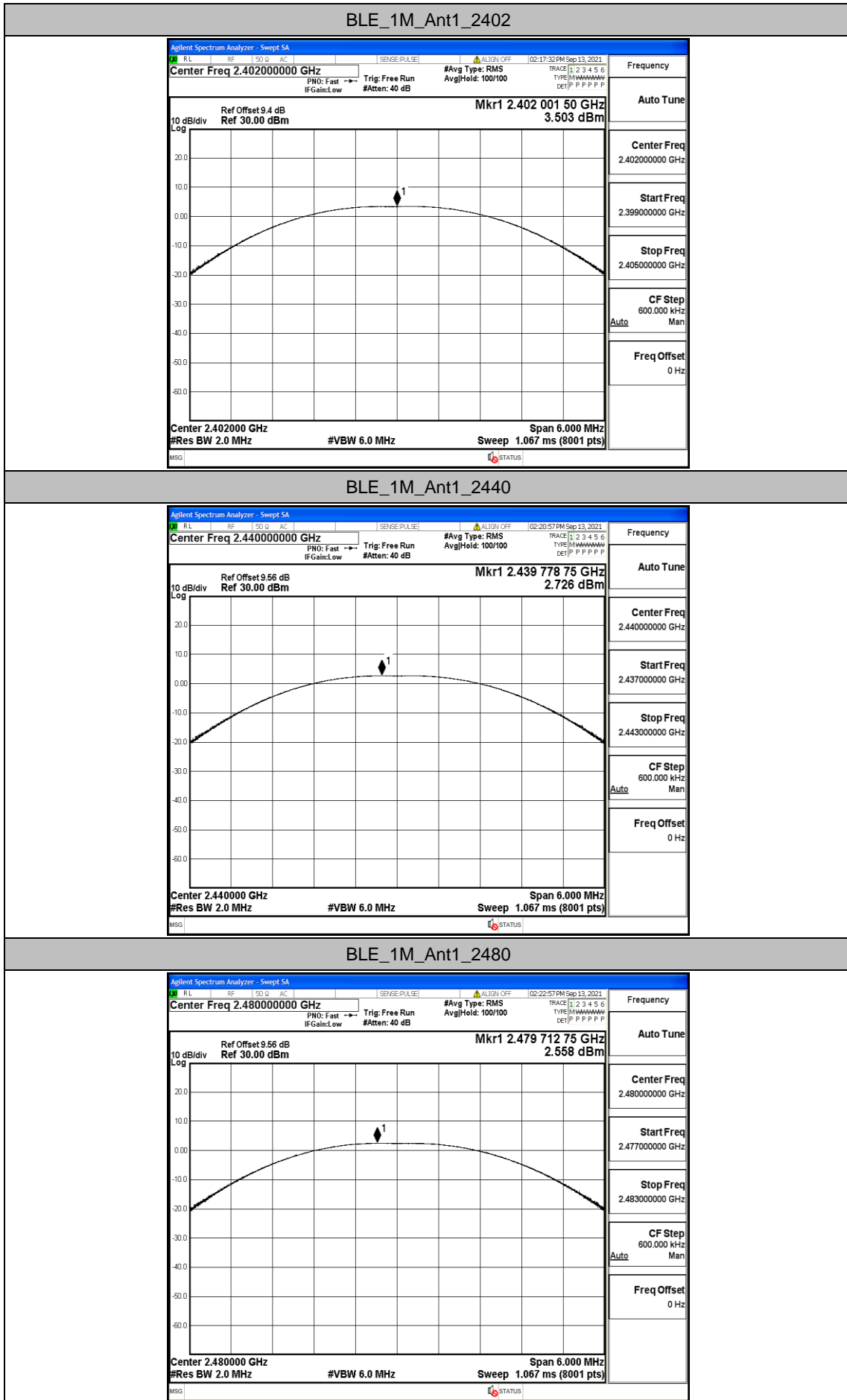


## Appendix C: Maximum conducted output power

### Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	3.5	≤30	PASS
		2440	2.73	≤30	PASS
		2480	2.56	≤30	PASS

### Test Graphs

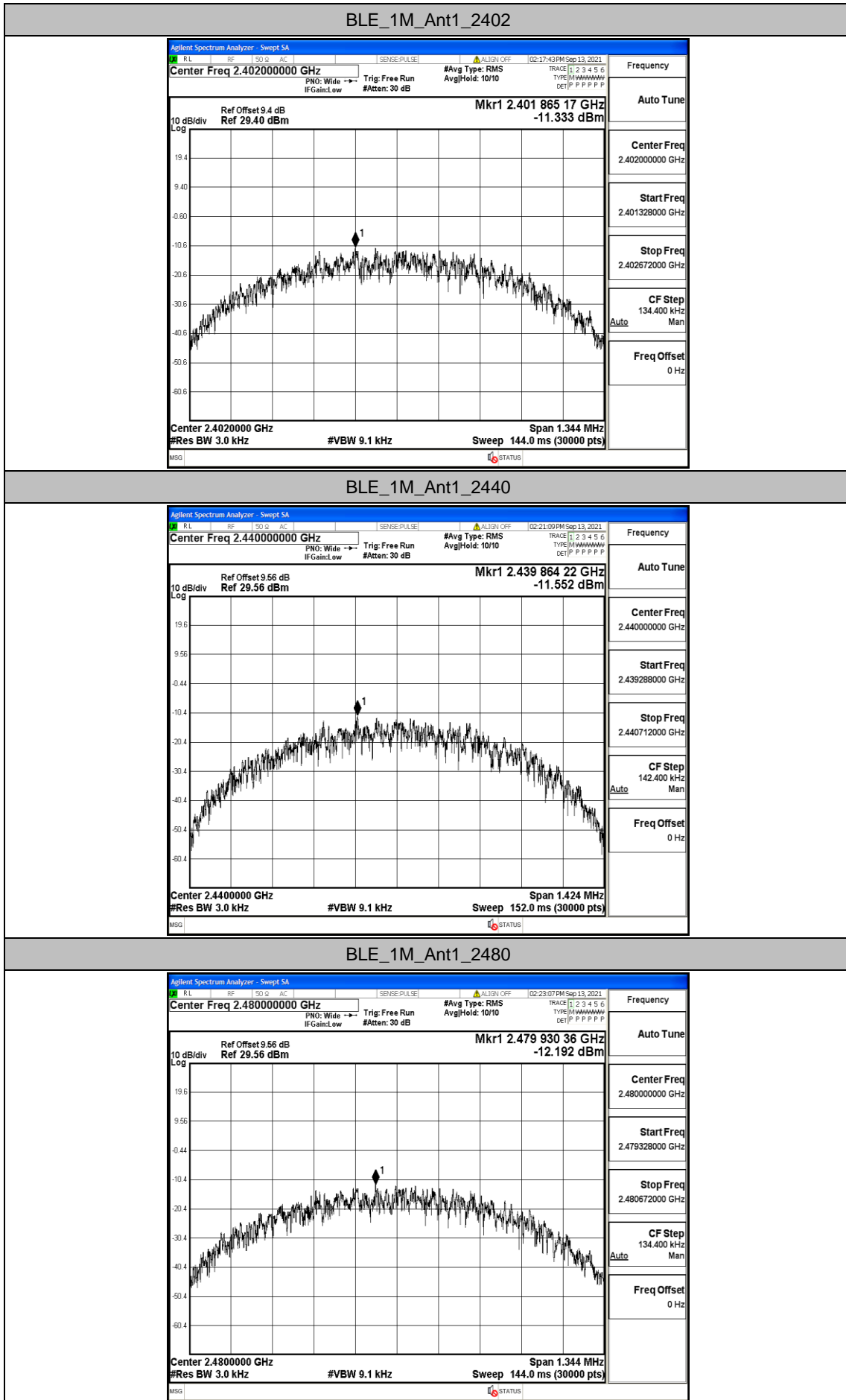


## Appendix D: Maximum power spectral density

### Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-11.33	≤8	PASS
		2440	-11.55	≤8	PASS
		2480	-12.19	≤8	PASS

### Test Graphs



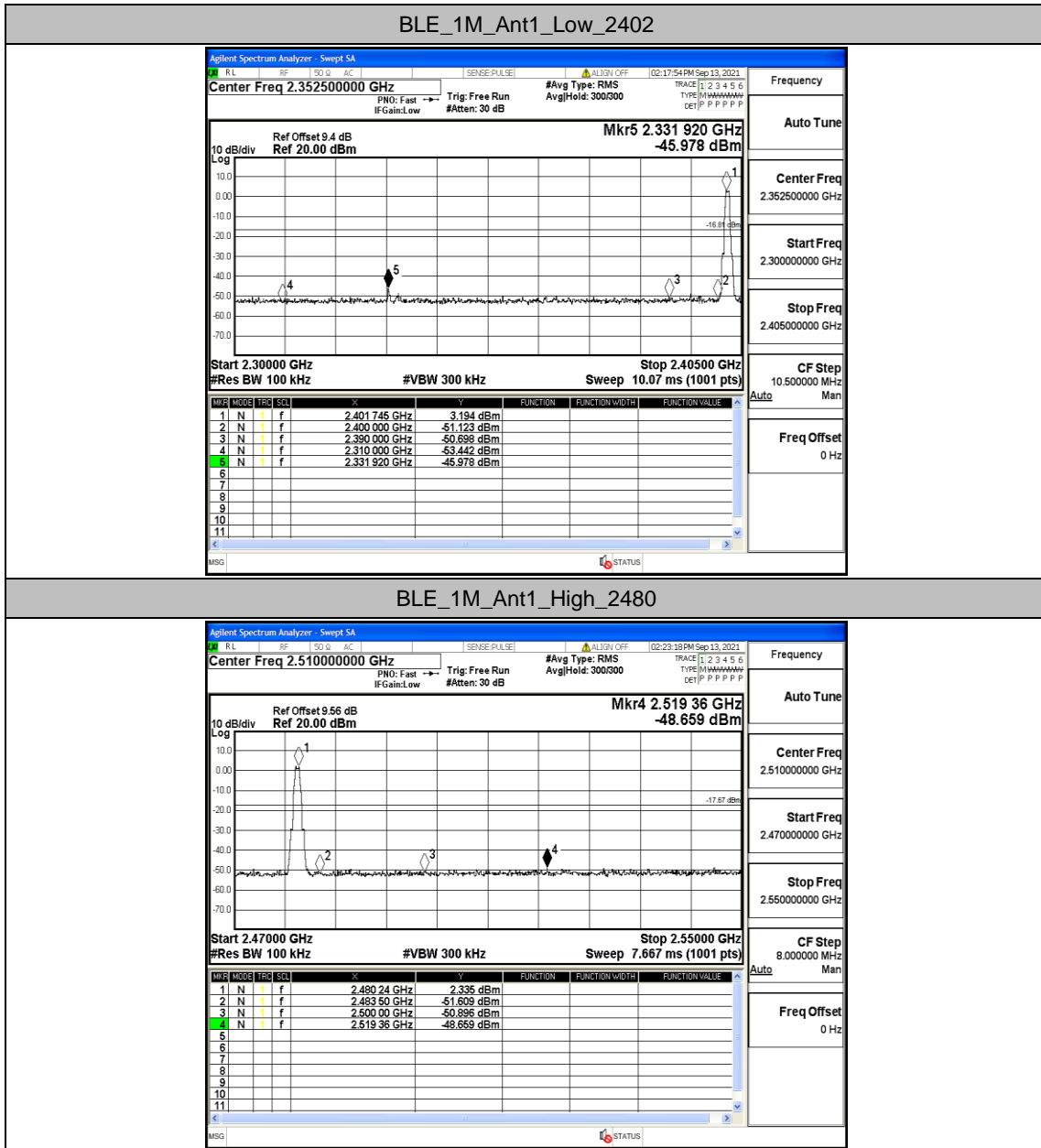


## Appendix E: Band edge measurements

### Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	3.19	-45.98	≤-16.81	PASS
		High	2480	2.34	-48.66	≤-17.67	PASS

Test Graphs

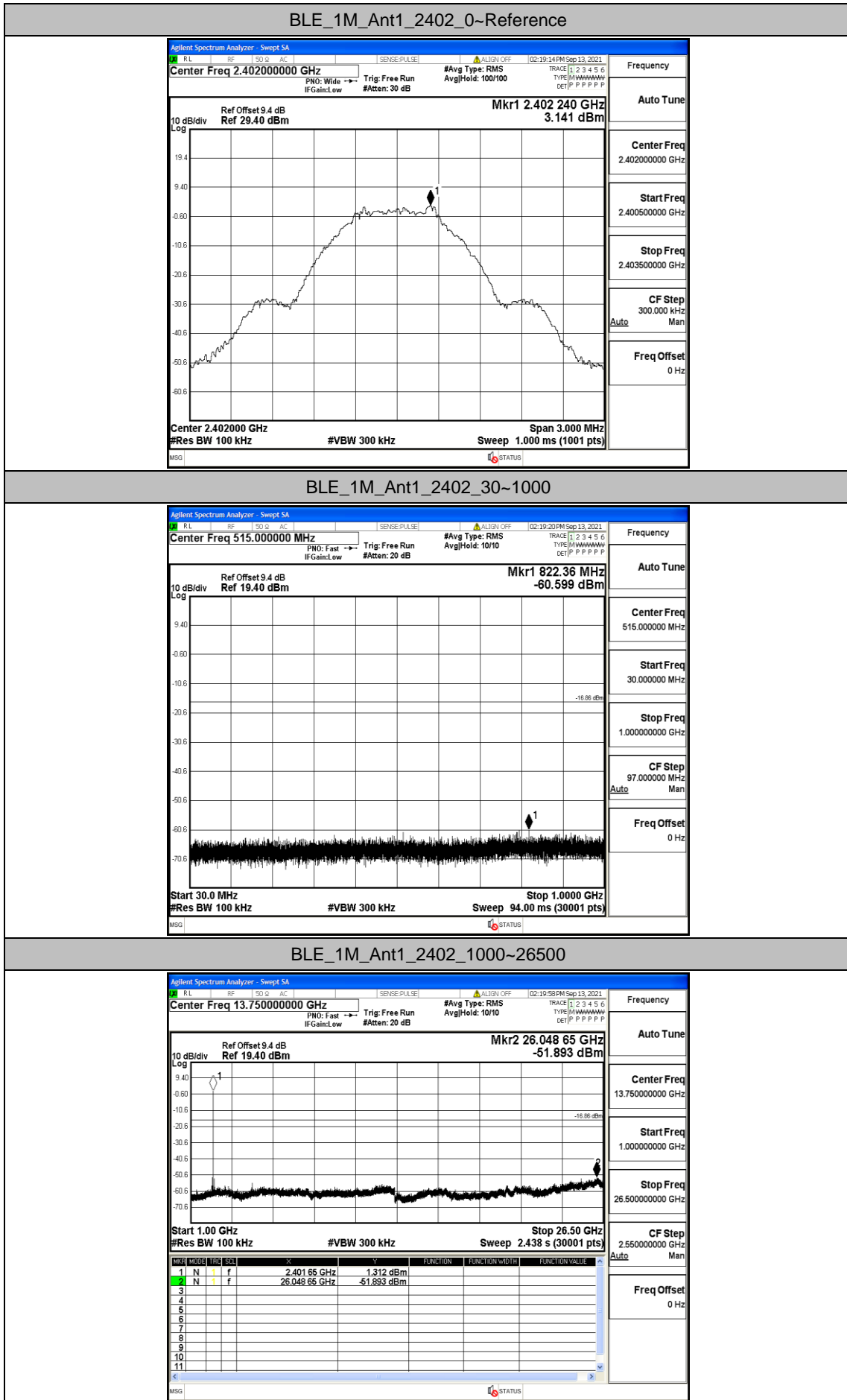

**BLE\_1M\_Ant1\_High\_2480**

## Appendix F: Conducted Spurious Emission

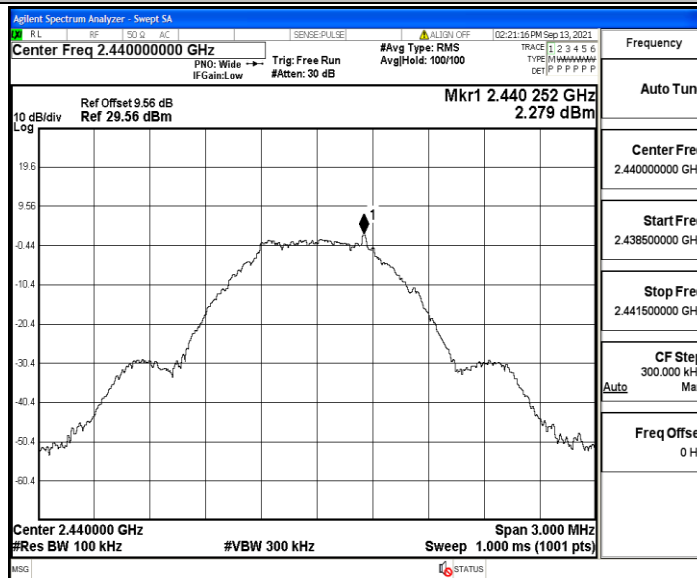
### Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	3.14	3.14	---	PASS
			30~1000	3.14	-60.6	≤-16.86	PASS
			1000~26500	3.14	-51.89	≤-16.86	PASS
		2440	Reference	2.28	2.28	---	PASS
			30~1000	2.28	-60.08	≤-17.72	PASS
			1000~26500	2.28	-51.88	≤-17.72	PASS
		2480	Reference	2.19	2.19	---	PASS
			30~1000	2.19	-60.13	≤-17.81	PASS
			1000~26500	2.19	-52.03	≤-17.81	PASS

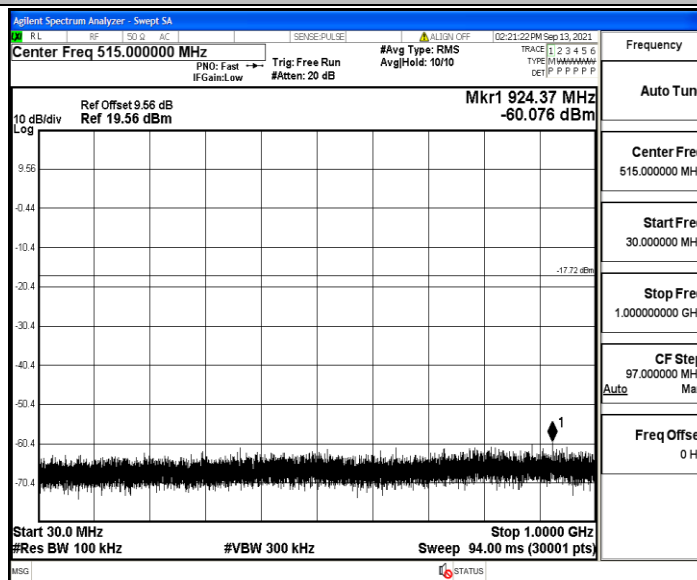
Test Graphs



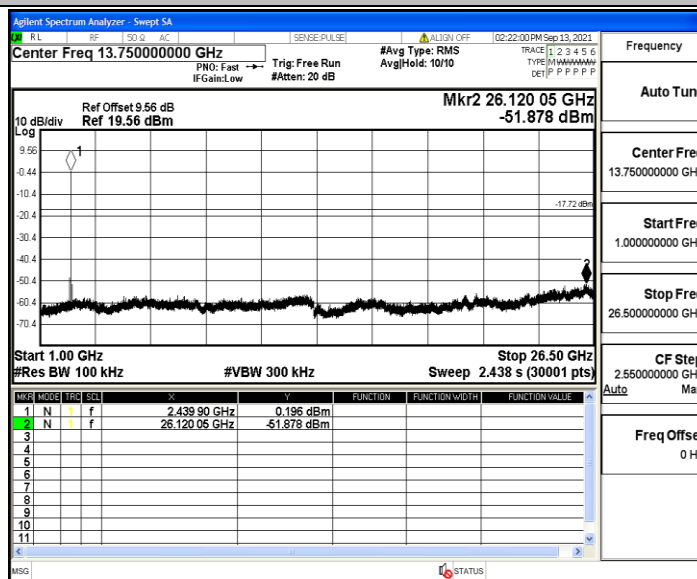
BLE\_1M\_Ant1\_2440\_0~Reference



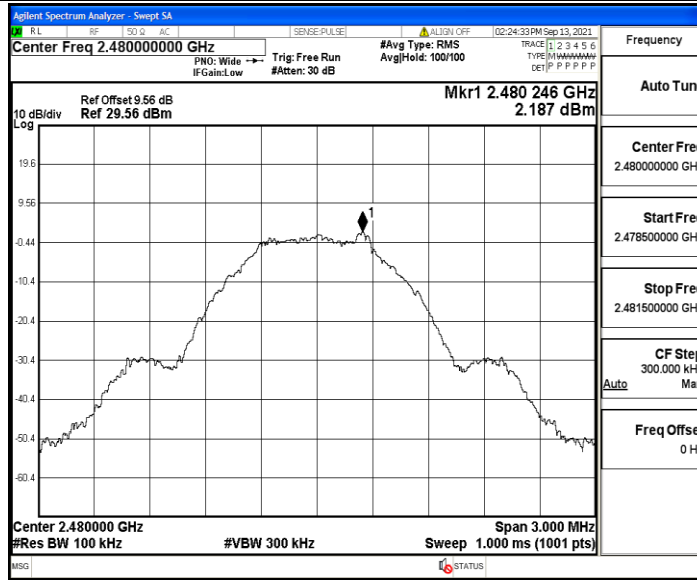
BLE\_1M\_Ant1\_2440\_30~1000



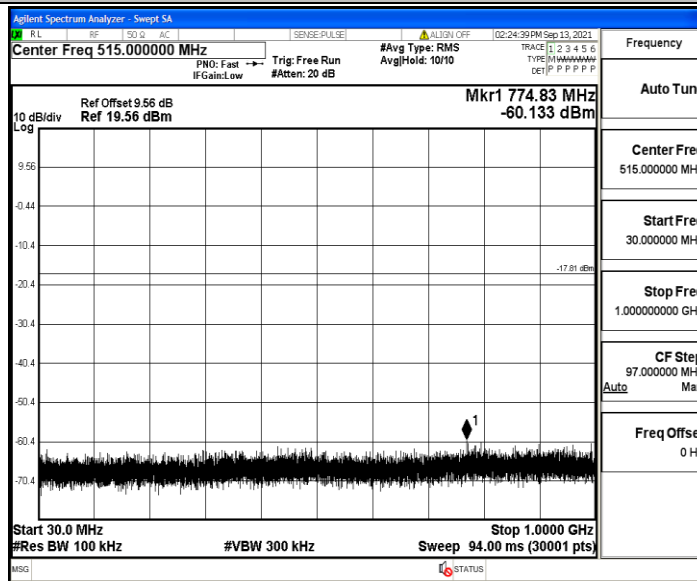
BLE\_1M\_Ant1\_2440\_1000~26500



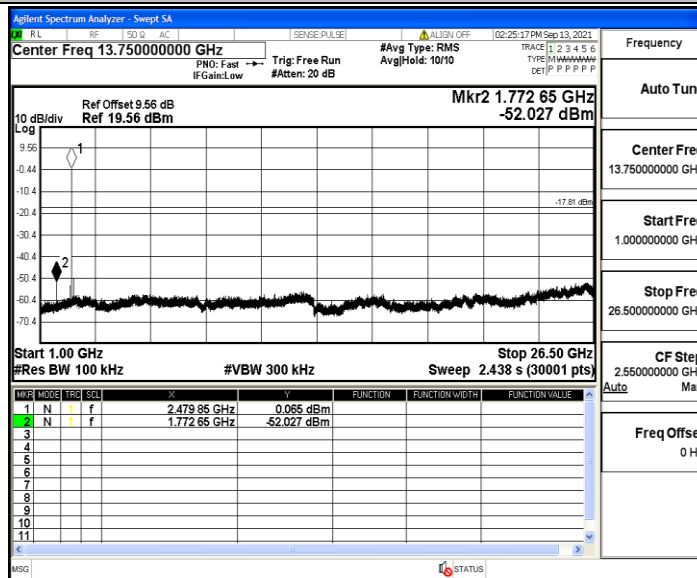
BLE\_1M\_Ant1\_2480\_0~Reference



BLE\_1M\_Ant1\_2480\_30~1000



BLE\_1M\_Ant1\_2480\_1000~26500

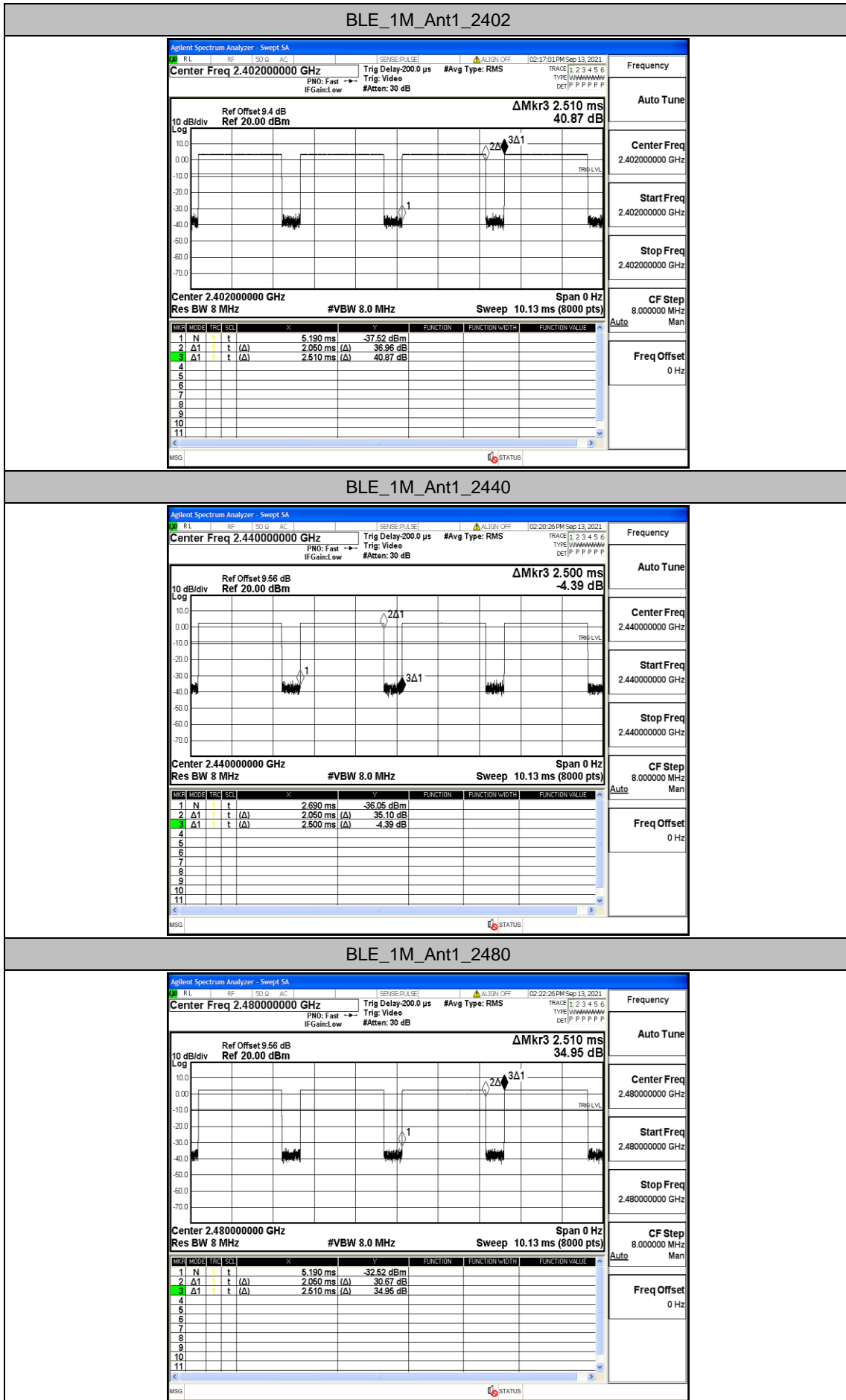


## Appendix G: Duty Cycle

### Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
BLE_1M	Ant1	2402	2.05	2.51	81.67
		2440	2.05	2.50	82.00
		2480	2.05	2.51	81.67

Test Graphs





## Appendix H: Emissions in Restricted Bands

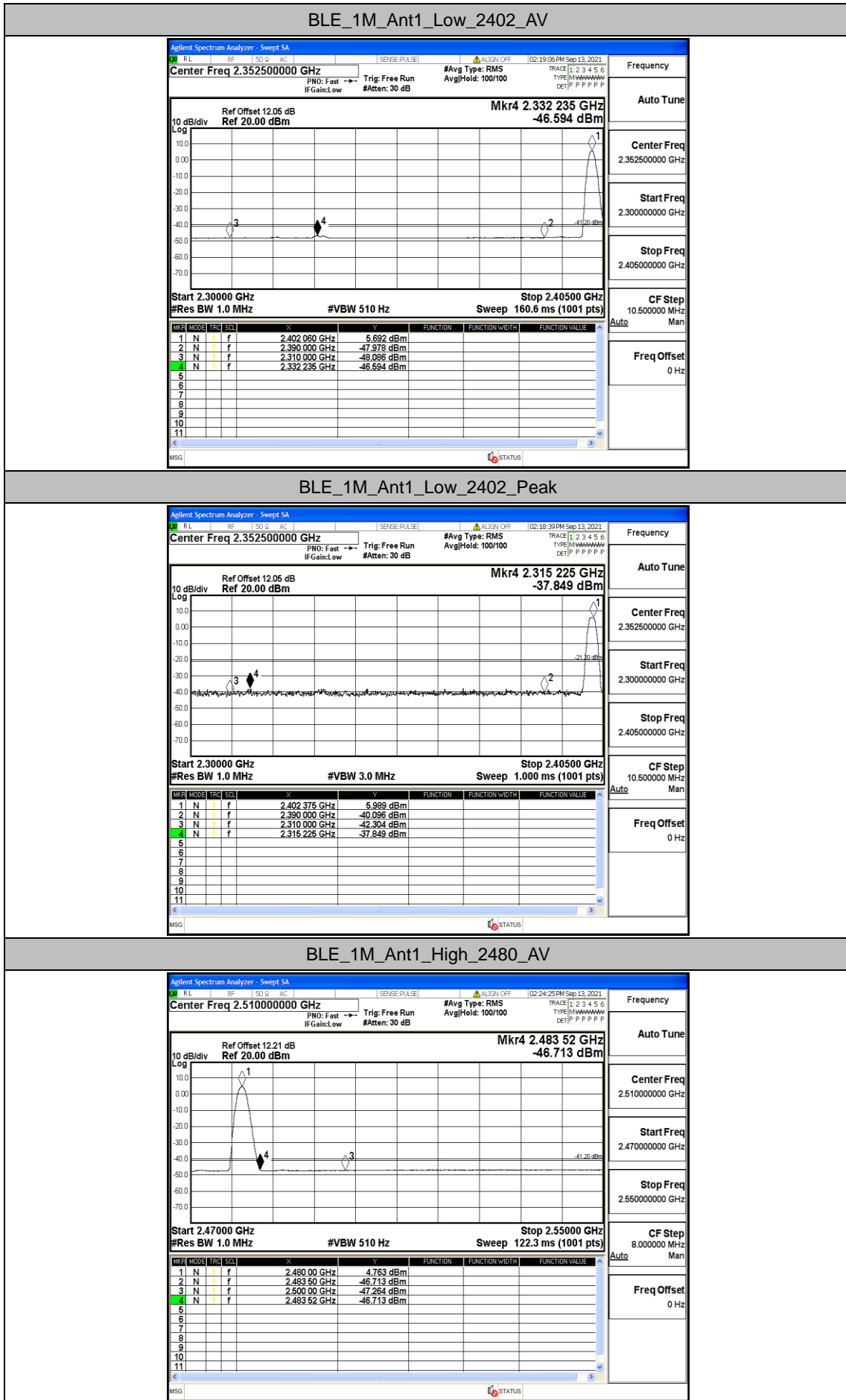
### Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-48.09	≤-41.20	PASS
				AV	2332.235	-46.59	≤-41.20	PASS
				AV	2390.000	-47.98	≤-41.20	PASS
				Peak	2310.000	-42.3	≤-21.20	PASS
				Peak	2315.225	-37.85	≤-21.20	PASS
				Peak	2390.000	-40.1	≤-21.20	PASS
		High	2480	AV	2483.500	-46.71	≤-41.20	PASS
				AV	2483.520	-46.71	≤-41.20	PASS
				AV	2500.000	-47.26	≤-41.20	PASS
				Peak	2483.500	-39.58	≤-21.20	PASS
				Peak	2498.720	-36.99	≤-21.20	PASS
				Peak	2500.000	-39.91	≤-21.20	PASS

#### Note:

1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
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



BLE\_1M\_Ant1\_High\_2480\_Peak

