

## Appendix A

### RF Test Data for BT V5.0 (BLE) (Conducted Measurement)

Product Name: H2O Interval

Trade Mark: H2O Audio

Test Model: INT5-AW-BCH

#### Environmental Conditions

Temperature:	24.2 ° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Li
Supervised by:	Li Huan

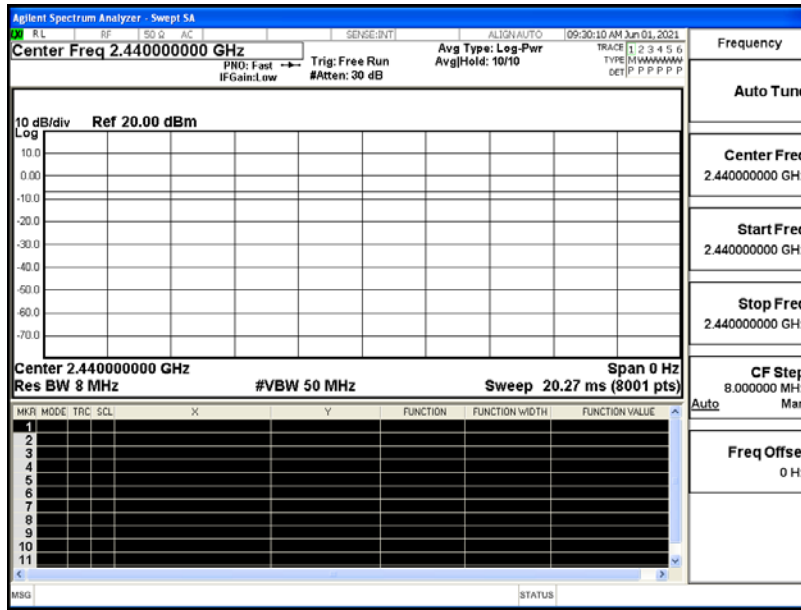
# A.1 Duty Cycle

## Test Result

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
BT LE	2440	Ant1	100	PASS

## Test Graphs

BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440

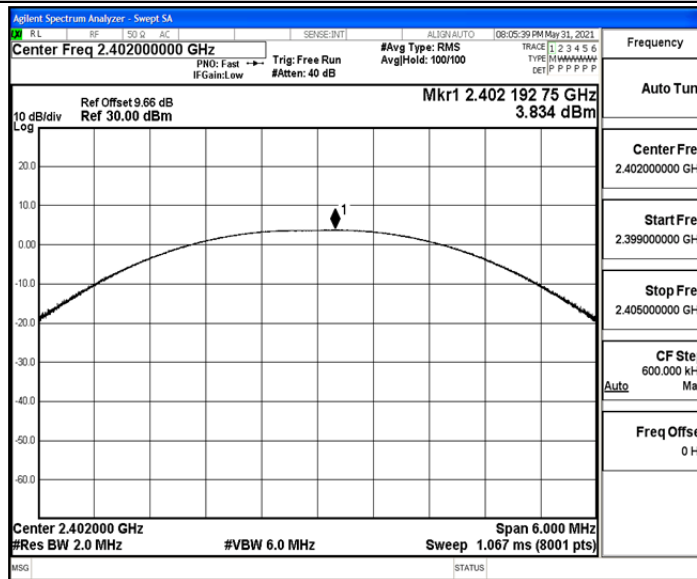
## A.2 Maximum conducted output power

### Test Result

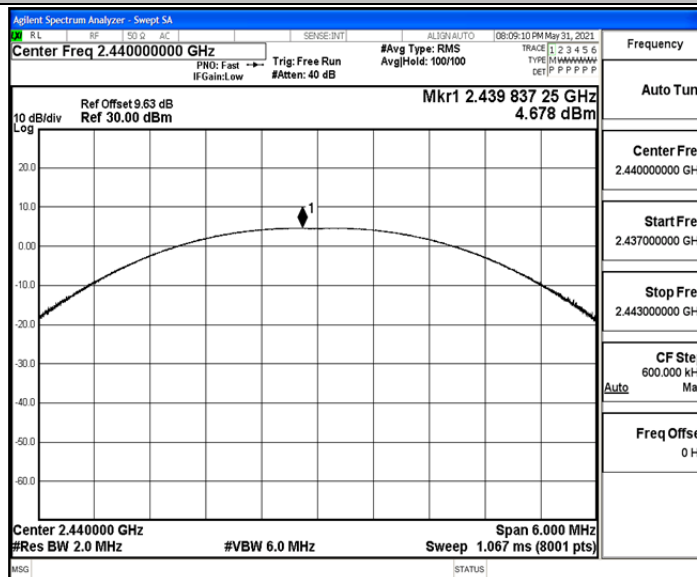
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	3.83	<=30	PASS
		2440	4.68	<=30	PASS
		2480	3.4	<=30	PASS

### Test Graphs

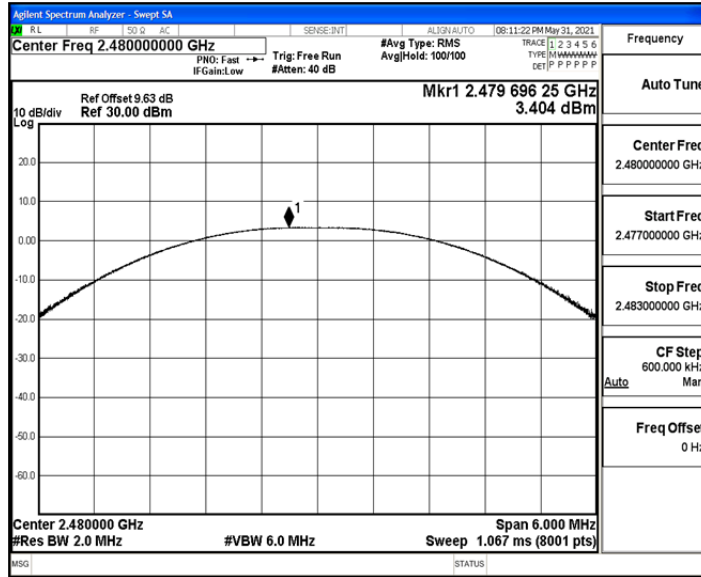
BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480



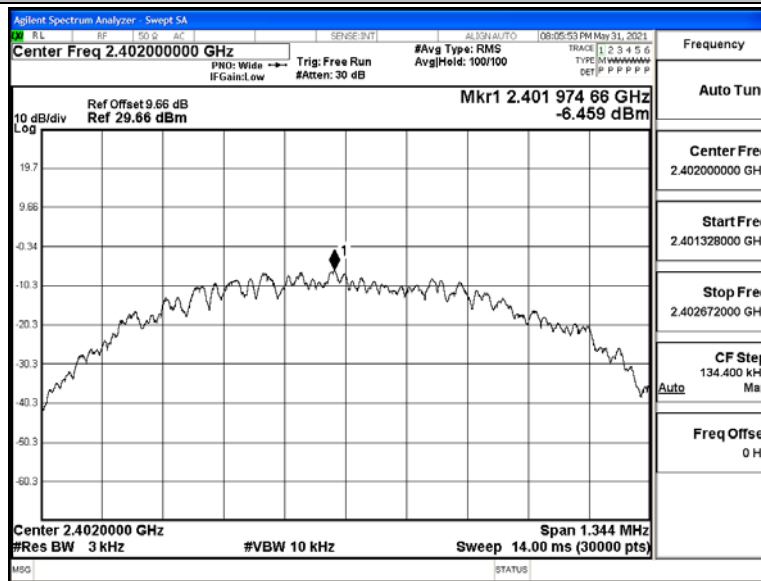
### A.3 Maximum power spectral density

#### Test Result

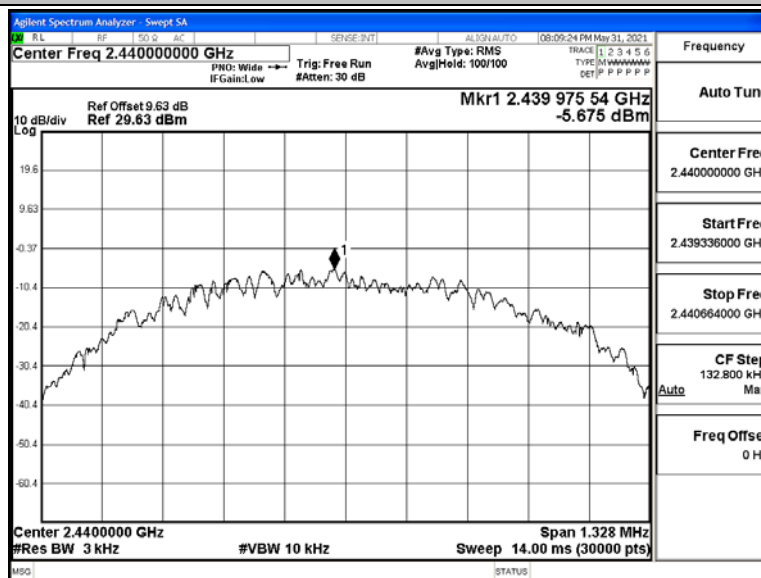
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-6.46	<=8	PASS
		2440	-5.68	<=8	PASS
		2480	-6.83	<=8	PASS

#### Test Graphs

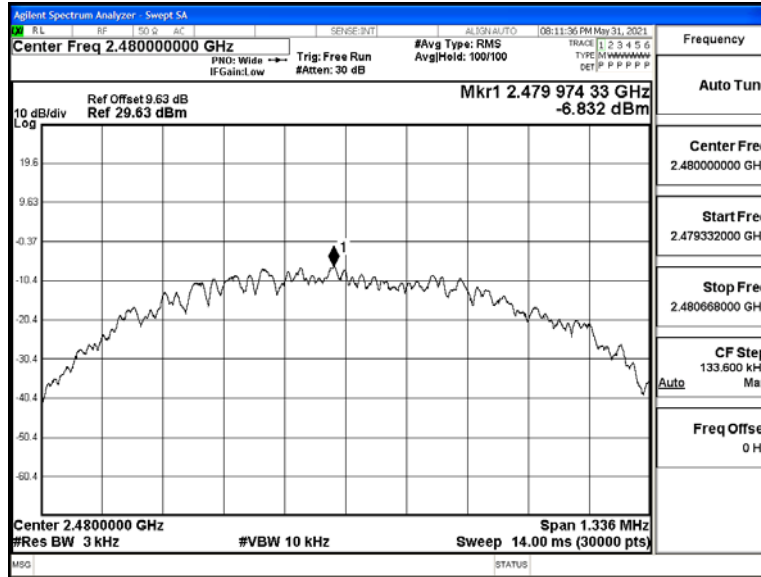
BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480



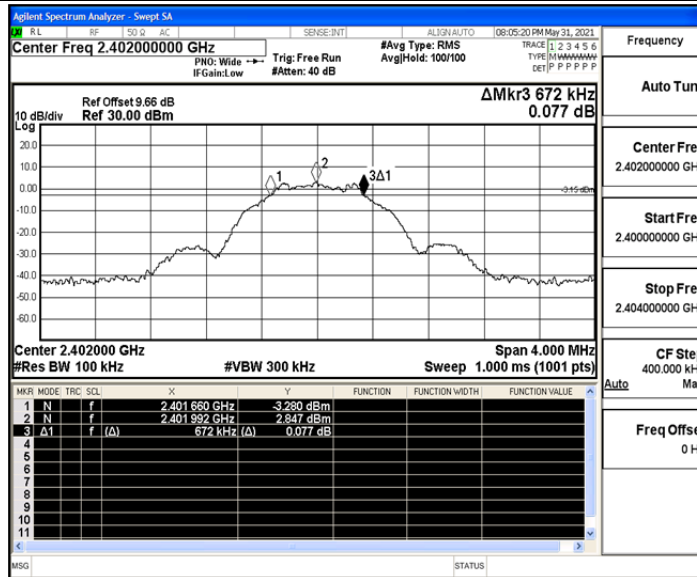
## A.4. 6dB Bandwidth

### Test Result

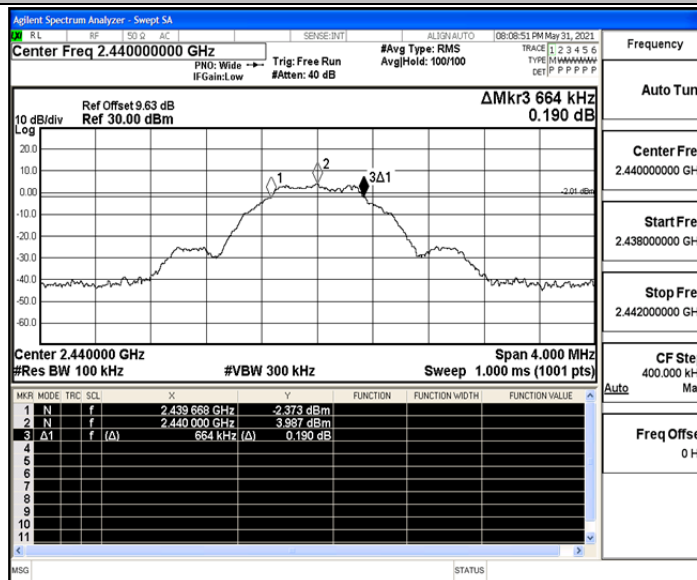
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.672	2401.660	2402.332	0.5	PASS
		2440	0.664	2439.668	2440.332	0.5	PASS
		2480	0.668	2479.664	2480.332	0.5	PASS

### Test Graphs

BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480





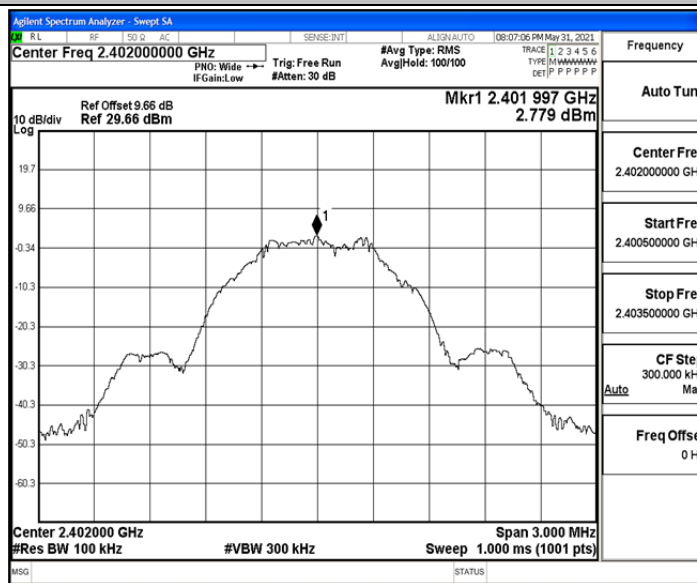
## A.6 Conducted Spurious Emission

### Test Result

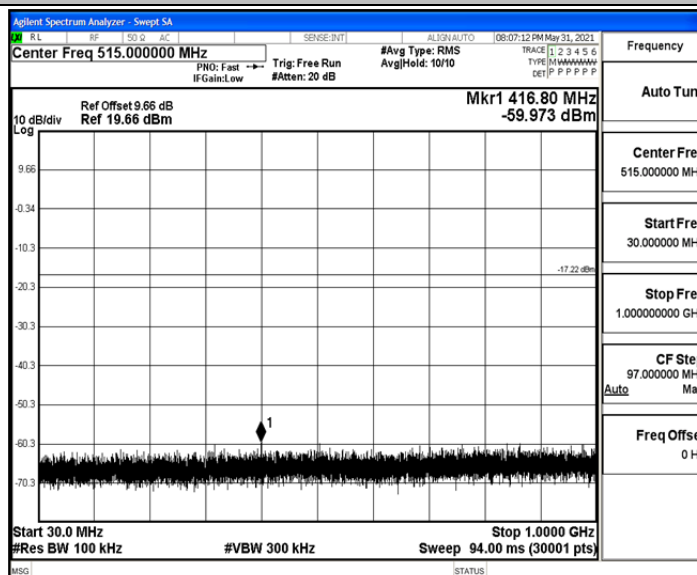
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	2.78	2.78	---	PASS
			30~1000	2.78	-59.97	<=-17.22	PASS
			1000~26500	2.78	-48.53	<=-17.22	PASS
		2440	Reference	3.69	3.69	---	PASS
			30~1000	3.69	-60.27	<=-16.31	PASS
			1000~26500	3.69	-49.09	<=-16.31	PASS
		2480	Reference	2.52	2.52	---	PASS
			30~1000	2.52	-59.88	<=-17.48	PASS
			1000~26500	2.52	-49.14	<=-17.48	PASS

### Test Graphs

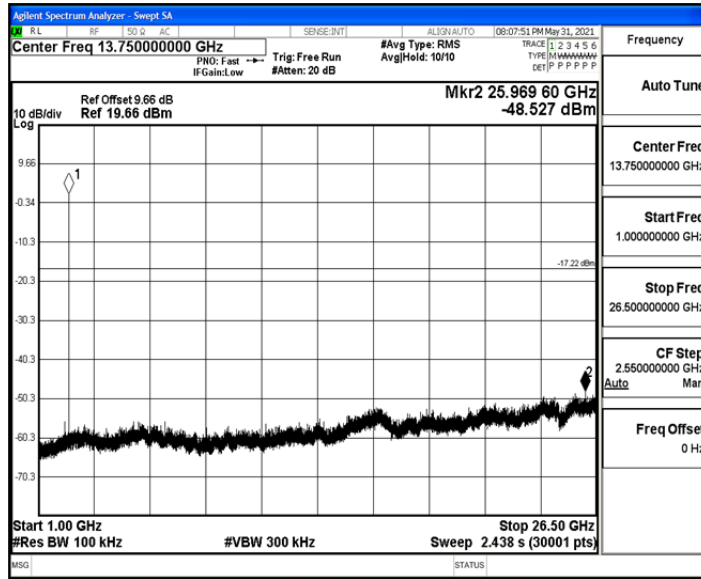
BLE\_1M\_Ant1\_2402\_0~Reference



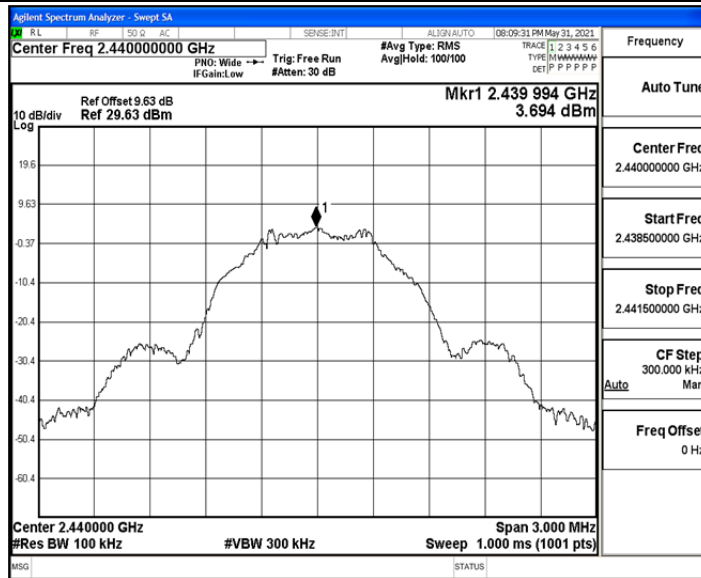
BLE\_1M\_Ant1\_2402\_30~1000



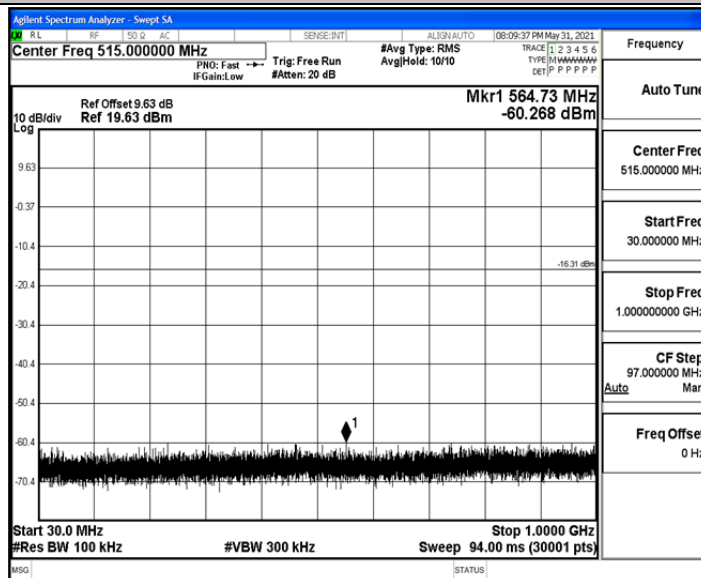
BLE\_1M\_Ant1\_2402\_1000~26500



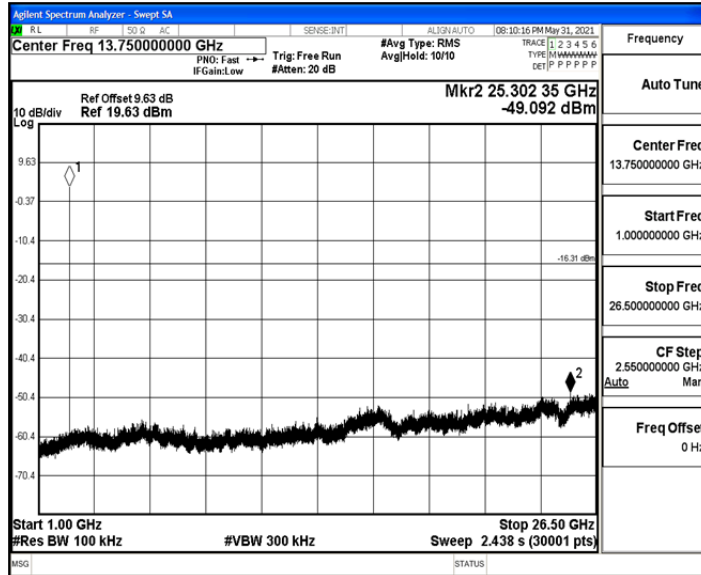
BLE\_1M\_Ant1\_2440\_0~Reference



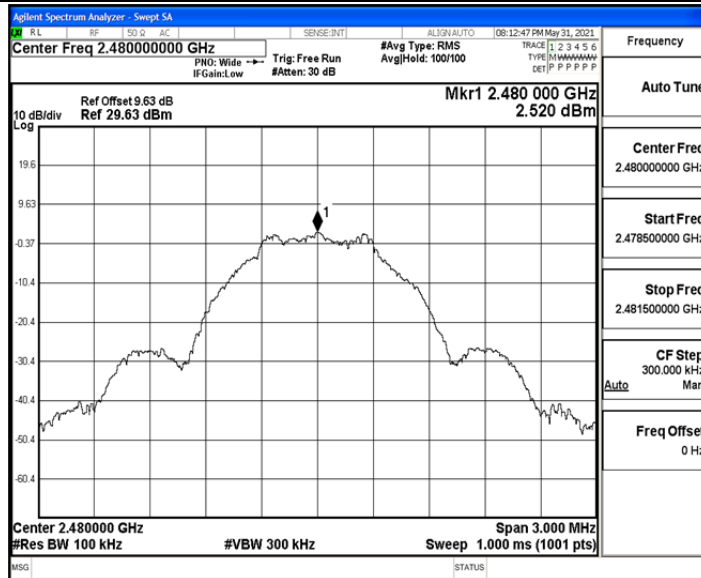
BLE\_1M\_Ant1\_2440\_30~1000



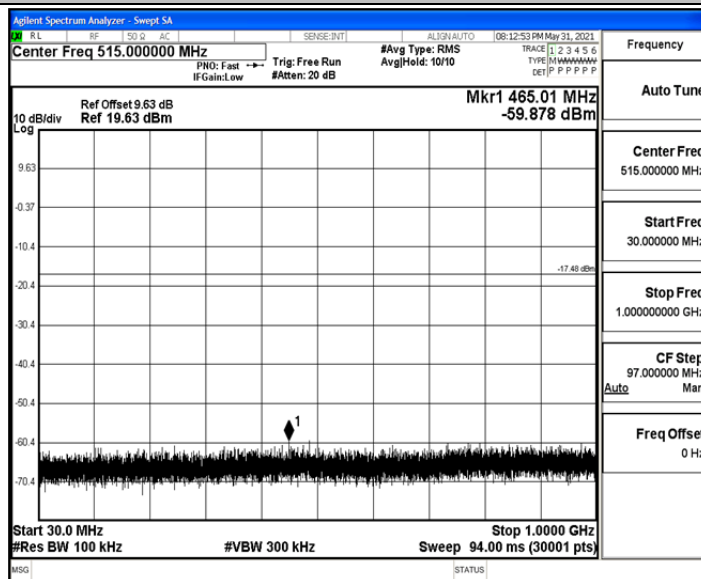
BLE\_1M\_Ant1\_2440\_1000~26500



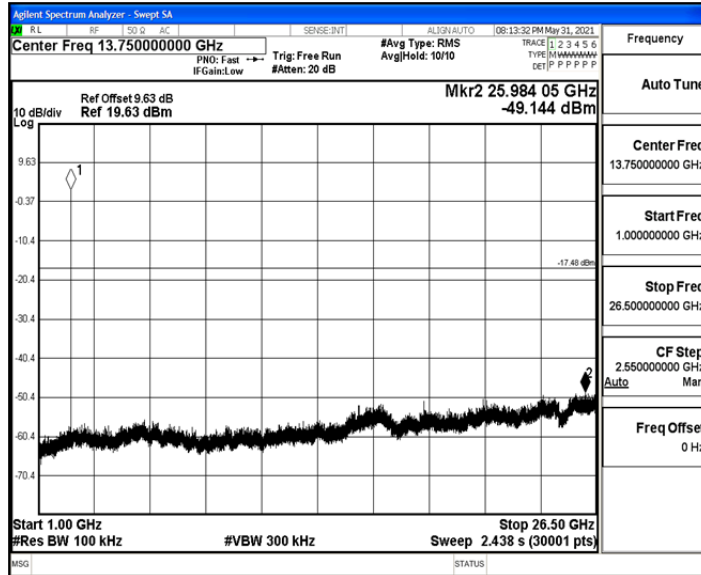
BLE\_1M\_Ant1\_2480\_0~Reference



BLE\_1M\_Ant1\_2480\_30~1000



BLE\_1M\_Ant1\_2480\_1000~26500



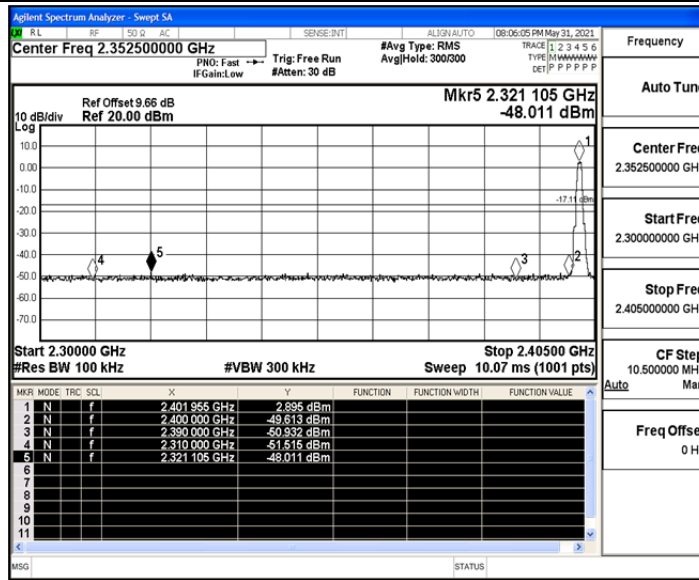
# A.7 Band edge measurements

## Test Result

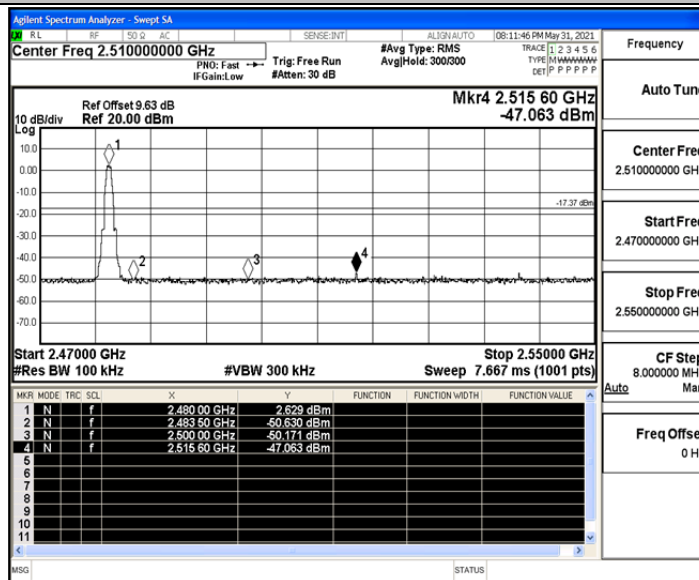
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	2.90	-48.01	<=-17.11	PASS
		High	2480	2.63	-47.06	<=-17.37	PASS

## Test Graphs

BLE\_1M\_Ant1\_Low\_2402



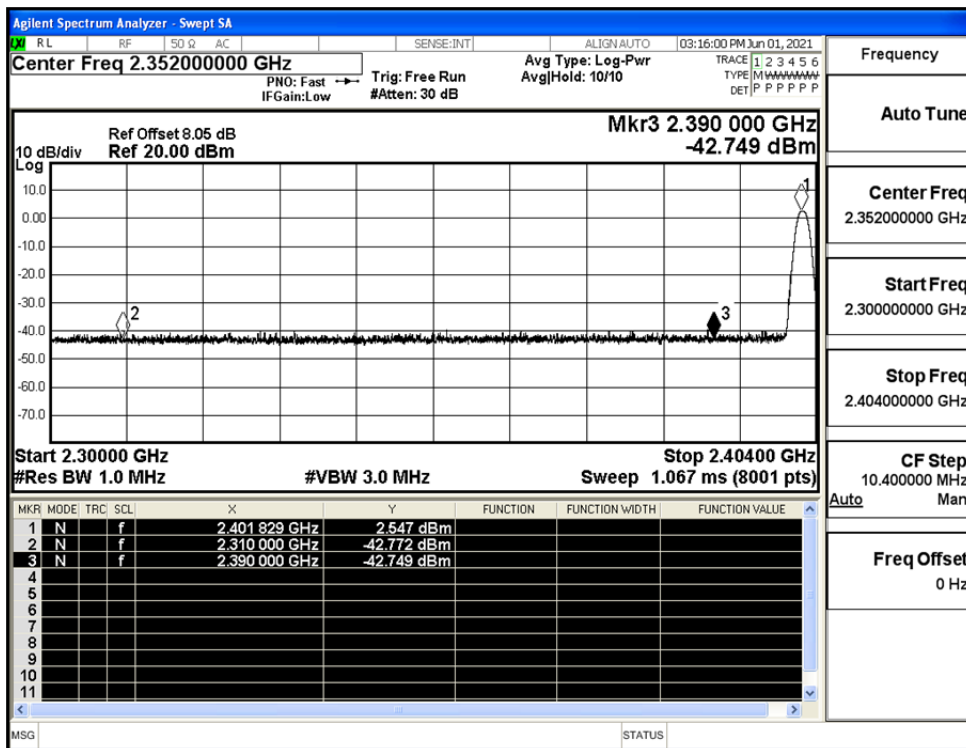
BLE\_1M\_Ant1\_High\_2480



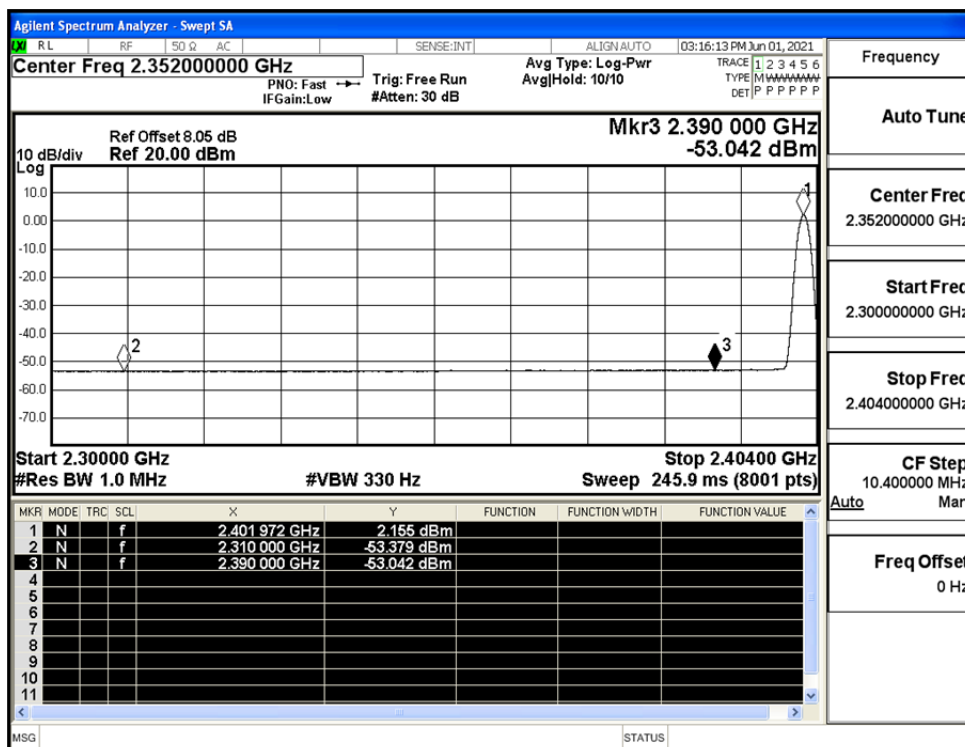
## A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
GFSK	Off	2310.0	-42.77	2.0	0	54.46	PEAK	74	PASS
	Off	2310.0	-53.38	2.0	0	43.85	AV	54	PASS
	Off	2390.0	-42.75	2.0	0	54.48	PEAK	74	PASS
	Off	2390.0	-53.04	2.0	0	44.19	AV	54	PASS
	Off	2483.5	-42.04	2.0	0	55.19	PEAK	74	PASS
	Off	2483.5	-52.50	2.0	0	44.73	AV	54	PASS
	Off	2500.0	-42.18	2.0	0	55.05	PEAK	74	PASS
	Off	2500.0	-52.41	2.0	0	44.82	AV	54	PASS

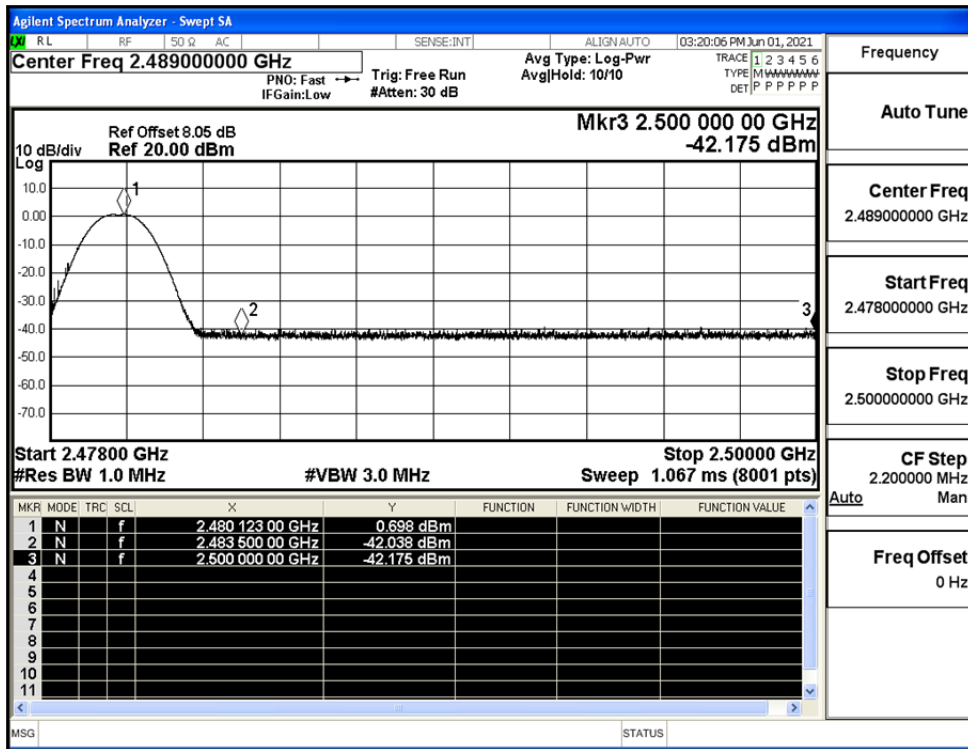
Restrict-band band-edge measurements\_BT LE\_PEAK (Low Channel)



Restrict-band band-edge measurements\_BT LE\_Average (Low Channel)



Restrict-band band-edge measurements\_BT LE\_PEAK (High Channel)



Restrict-band band-edge measurements\_BT LE\_Average (High Channel)

