

## Appendix A

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

Product Name: Mobile phone

Trade Mark: PCD

Test Model: P40

FCC ID: 2ALJJP40

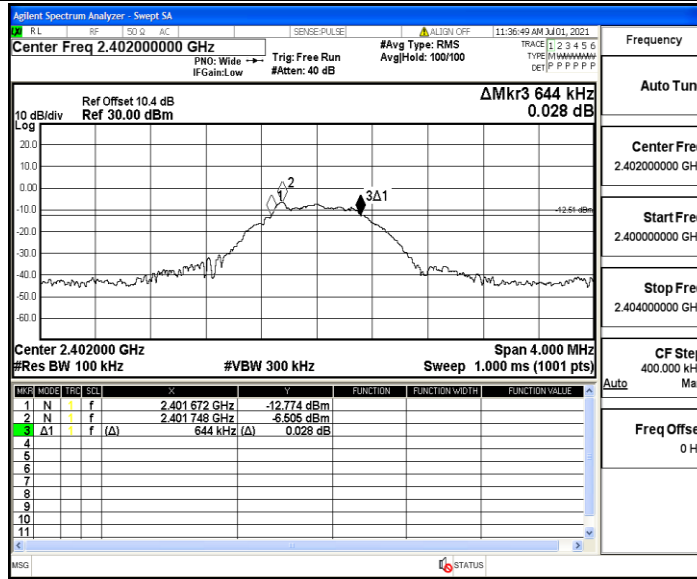
### Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	51%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

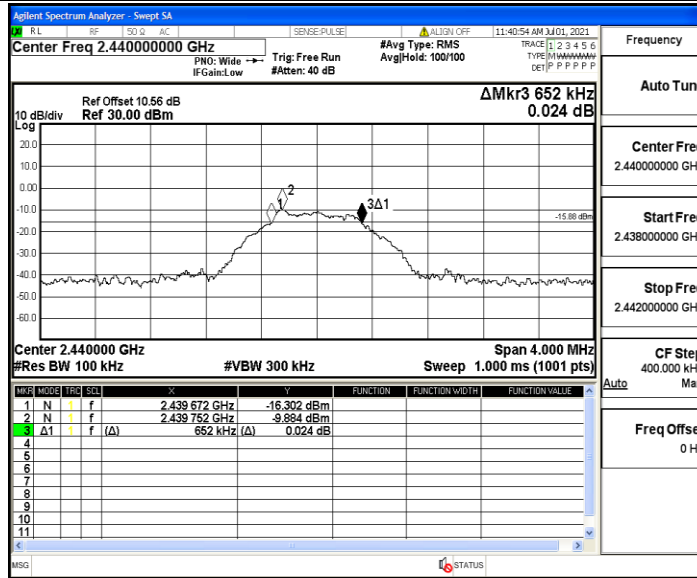
#### A.1. 6dB Bandwidth

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.644	2401.672	2402.316	0.5	PASS
		2440	0.652	2439.672	2440.324	0.5	PASS
		2480	0.636	2479.672	2480.308	0.5	PASS

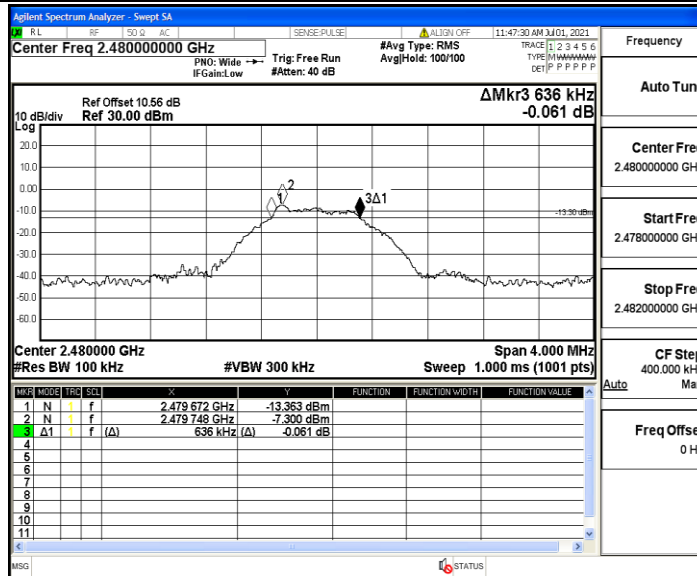
BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480



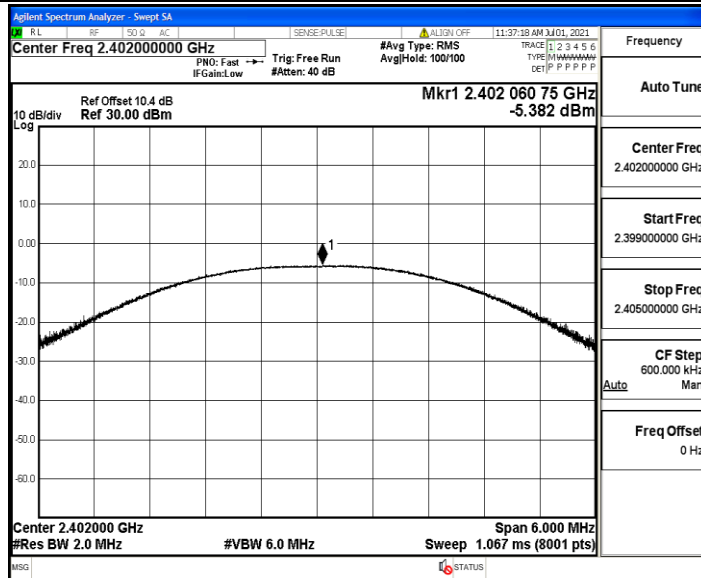
**A.2. Occupied Bandwidth**

Test Mode	Test Channel	Ant	OBW[MHz]	Limit[MHz]	Verdict
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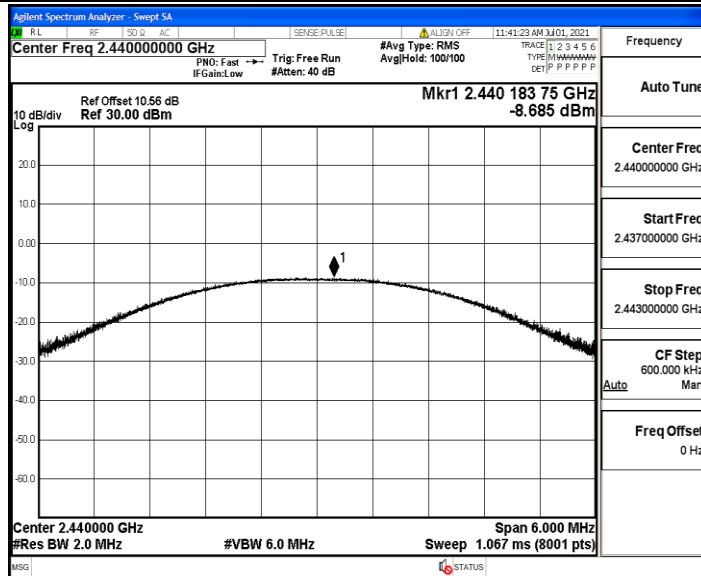
**A.3. Maximum peak conducted output power**

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-5.38	<=30	PASS
		2440	-8.69	<=30	PASS
		2480	-6.46	<=30	PASS

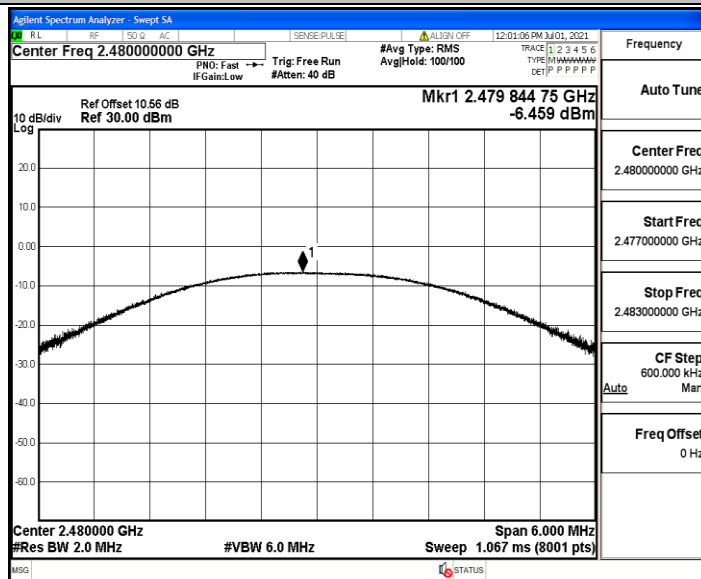
BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



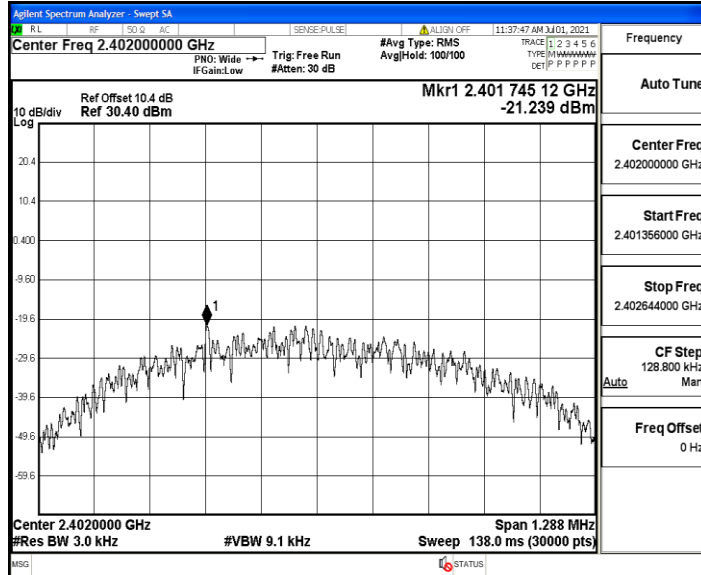
BLE\_1M\_Ant1\_2480



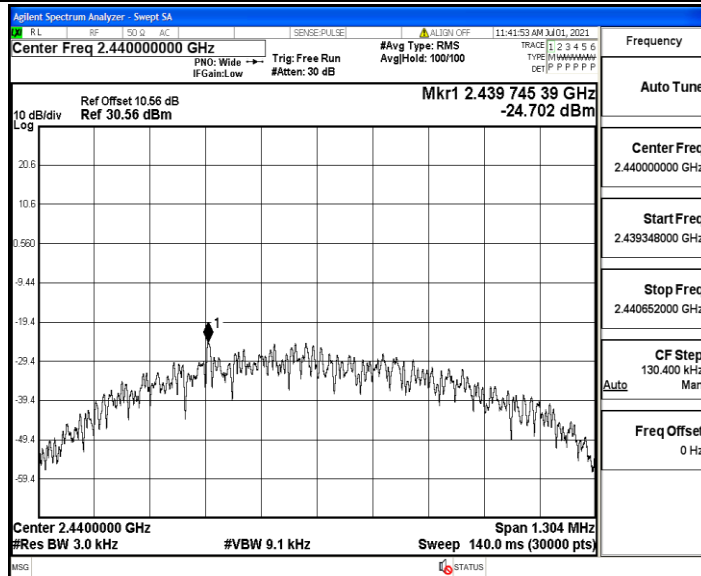
**A.4. Maximum Peak power spectral density**

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-21.24	<=8	PASS
		2440	-24.7	<=8	PASS
		2480	-22	<=8	PASS

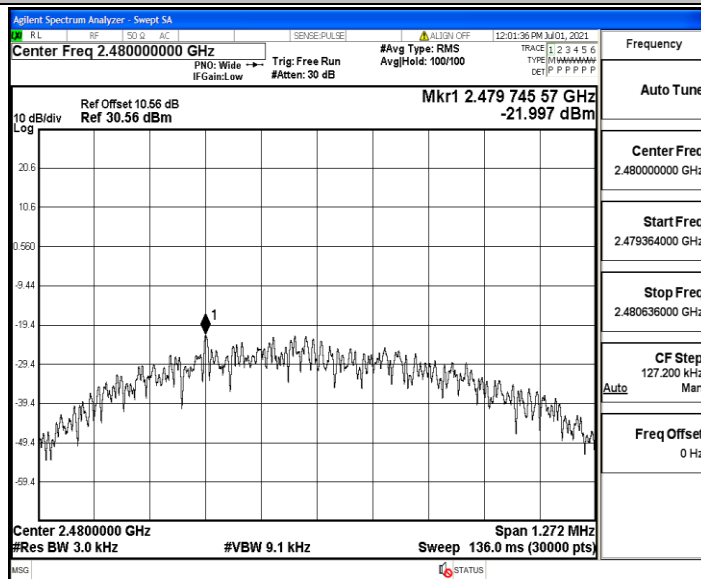
BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



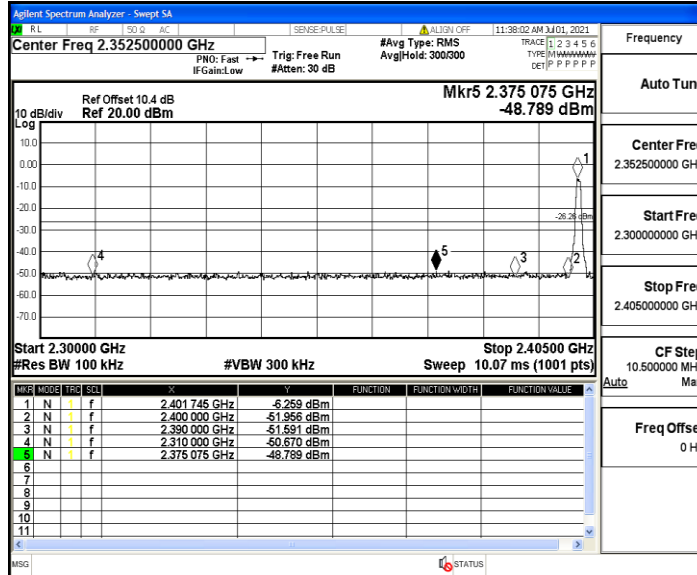
BLE\_1M\_Ant1\_2480



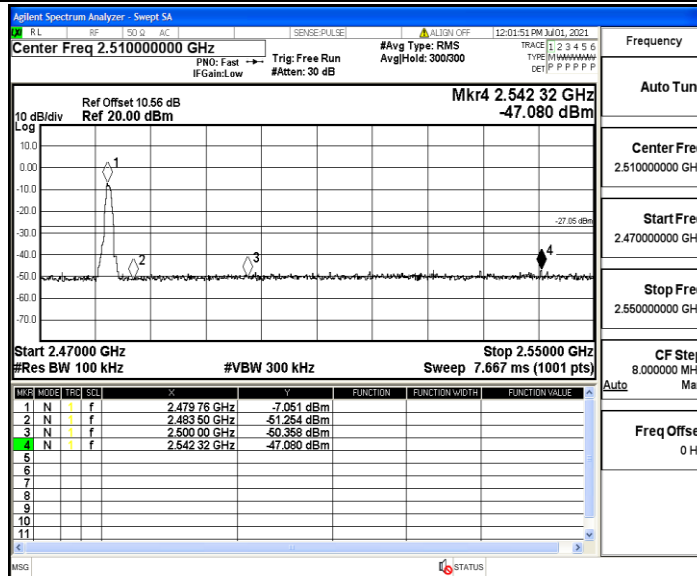
**A.5. Band-edge for RF Conducted Emissions**

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-6.26	-48.79	<=-26.26	PASS
		High	2480	-7.05	-47.08	<=-27.05	PASS

BLE\_1M\_Ant1\_Low\_2402



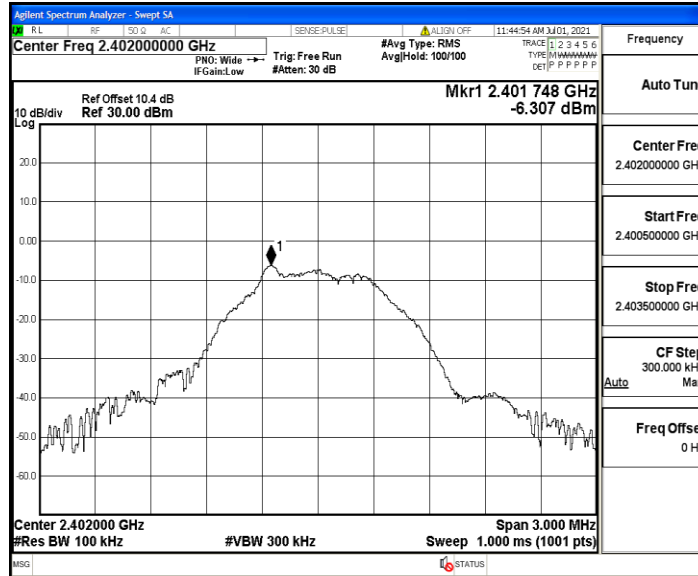
BLE\_1M\_Ant1\_High\_2480



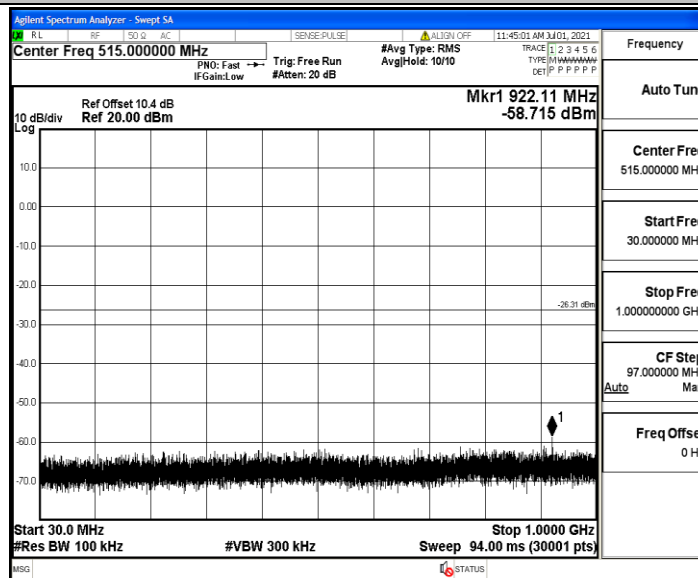


### A.6. RF Conducted Spurious Emissions

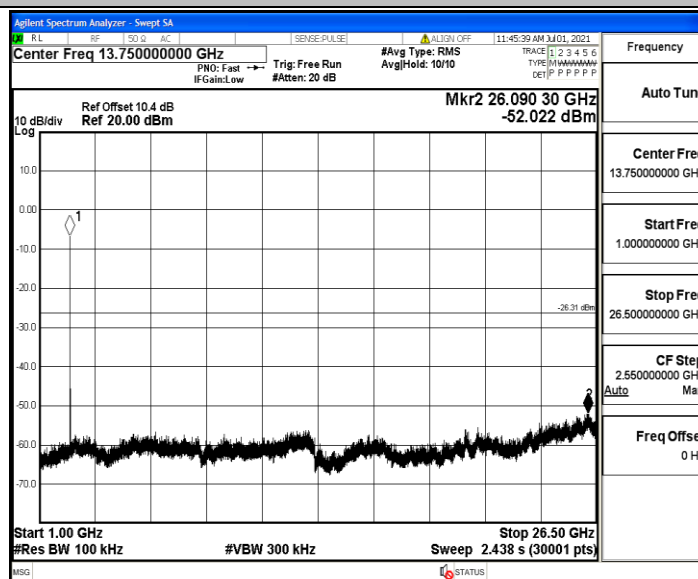
BLE\_1M\_Ant1\_2402\_0~Reference



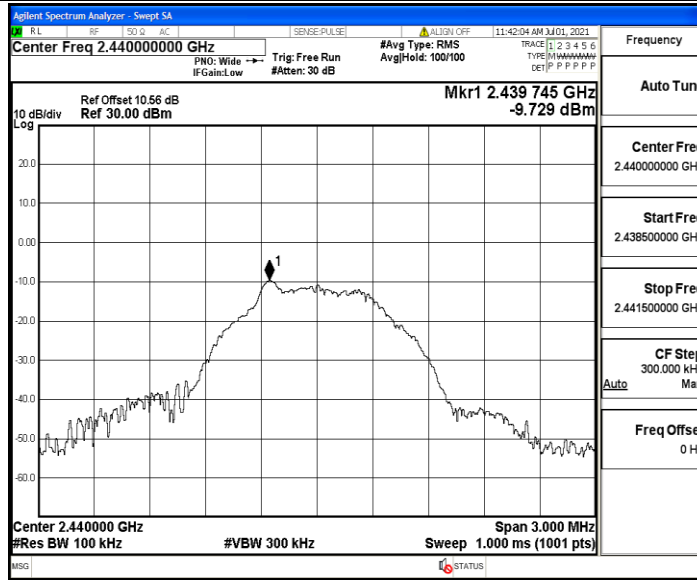
BLE\_1M\_Ant1\_2402\_30~1000



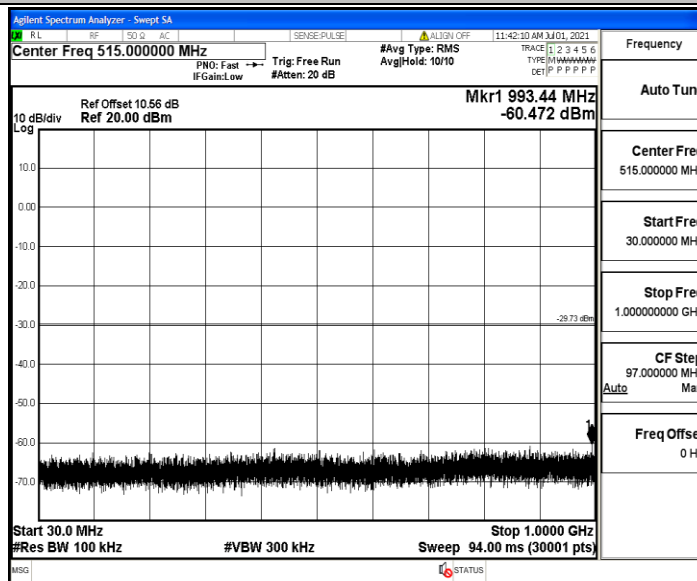
BLE\_1M\_Ant1\_2402\_1000~26500



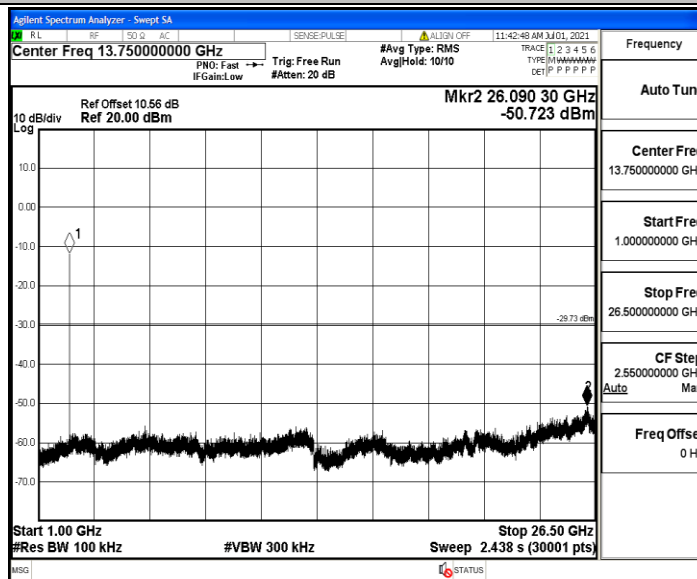
BLE\_1M\_Ant1\_2440\_0~Reference



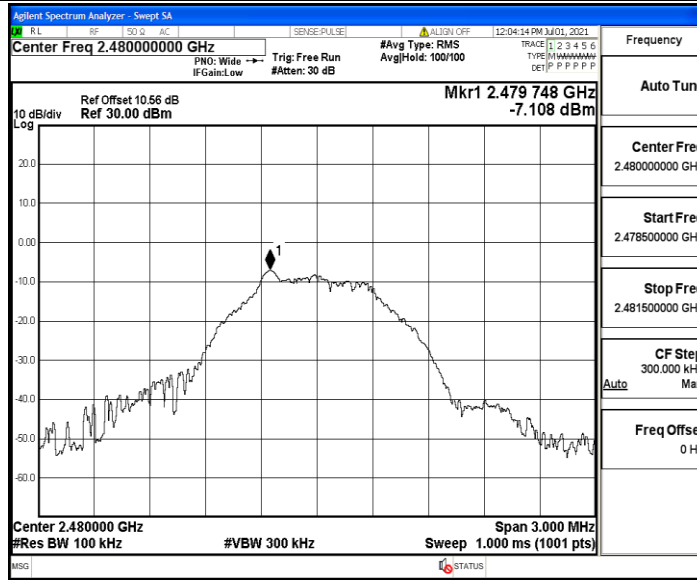
BLE\_1M\_Ant1\_2440\_30~1000



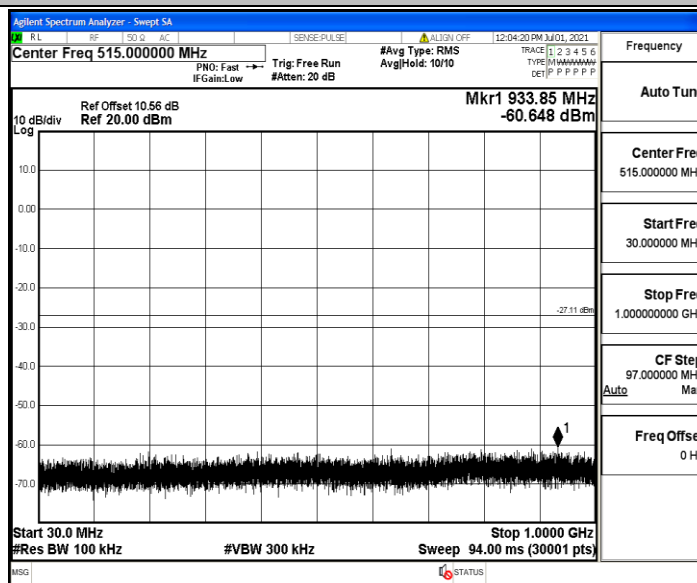
BLE\_1M\_Ant1\_2440\_1000~26500



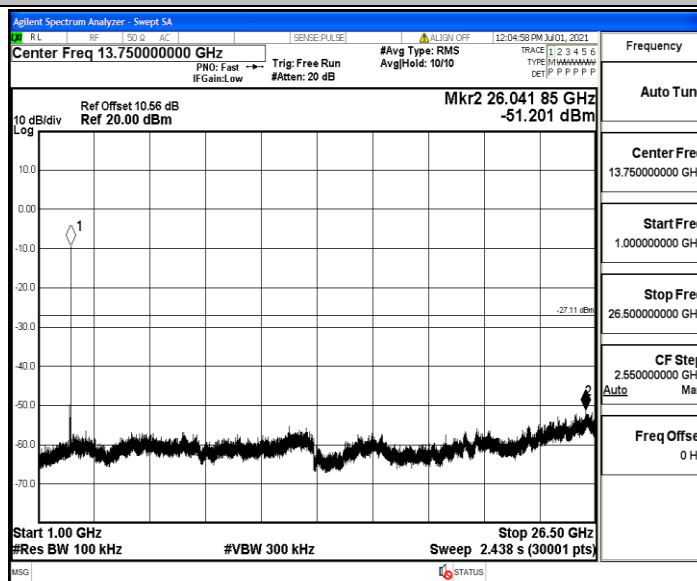
BLE\_1M\_Ant1\_2480\_0~Reference



BLE\_1M\_Ant1\_2480\_30~1000



BLE\_1M\_Ant1\_2480\_1000~26500



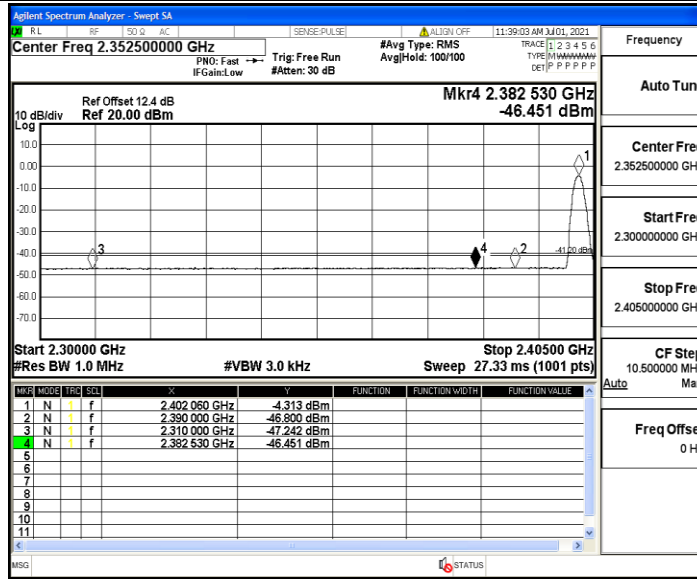
**A.7. Restrict-band band-edge measurements**

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-47.24	<=-41.20	PASS
				AV	2382.530	-46.45	<=-41.20	PASS
				AV	2390.000	-46.8	<=-41.20	PASS
				Peak	2310.000	-39.71	<=-21.20	PASS
				Peak	2354.810	-37.49	<=-21.20	PASS
				Peak	2390.000	-40.01	<=-21.20	PASS
		High	2480	AV	2483.500	-46.43	<=-41.20	PASS
				AV	2490.240	-45.66	<=-41.20	PASS
				AV	2500.000	-46.17	<=-41.20	PASS
				Peak	2483.500	-40.79	<=-21.20	PASS
				Peak	2497.280	-37.33	<=-21.20	PASS
				Peak	2500.000	-39.08	<=-21.20	PASS

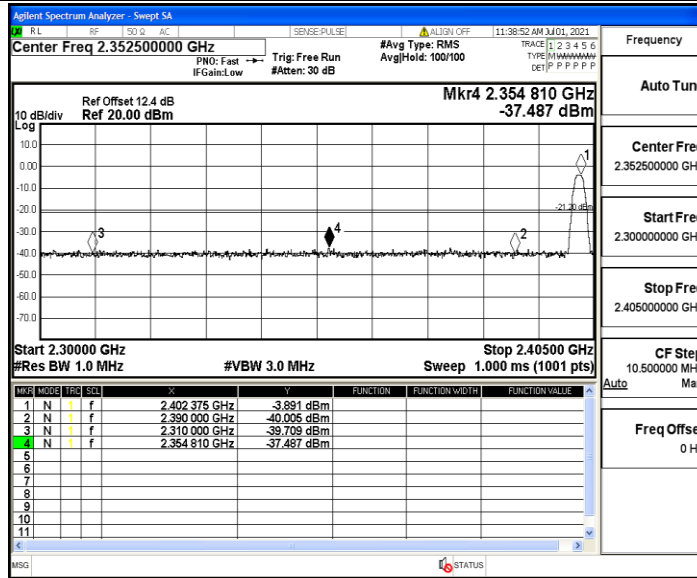
**Note**

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.

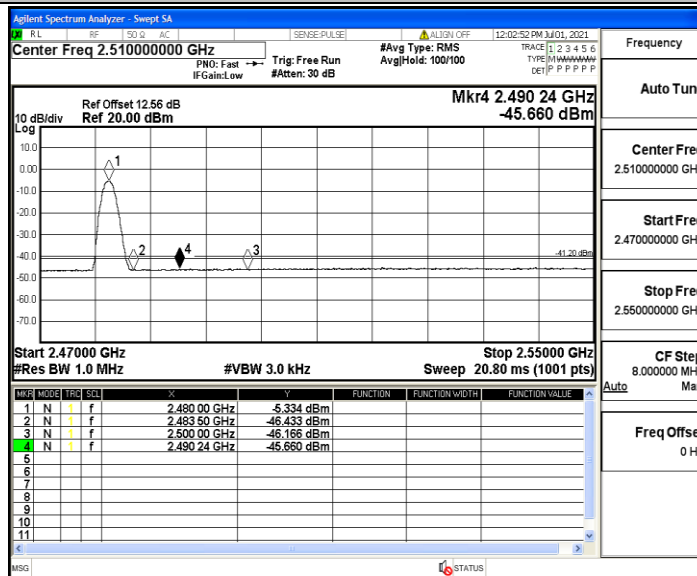
BLE\_1M\_Ant1\_Low\_2402\_AV



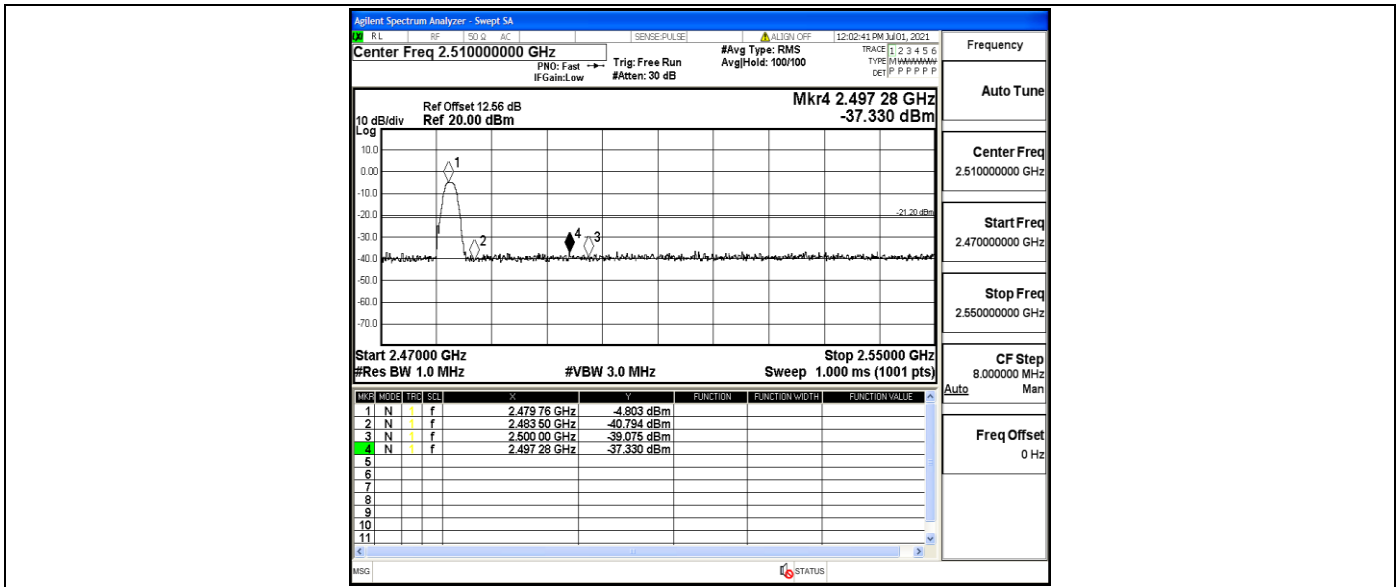
BLE\_1M\_Ant1\_Low\_2402\_Peak



BLE\_1M\_Ant1\_High\_2480\_AV



BLE\_1M\_Ant1\_High\_2480\_Peak

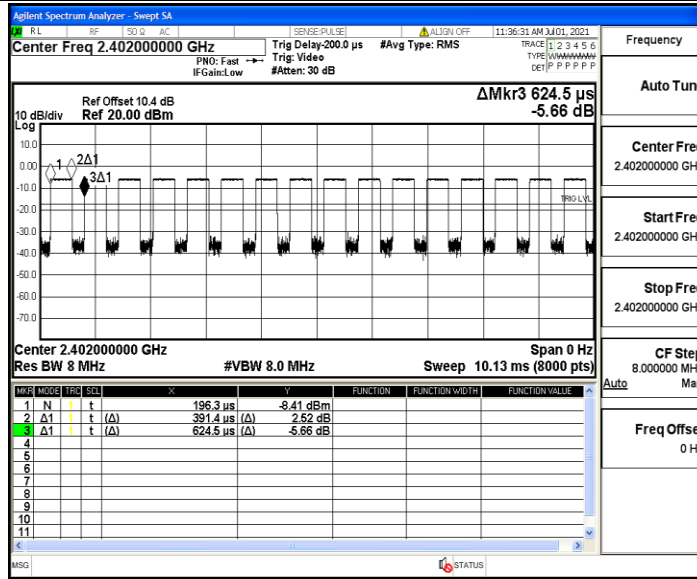


1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

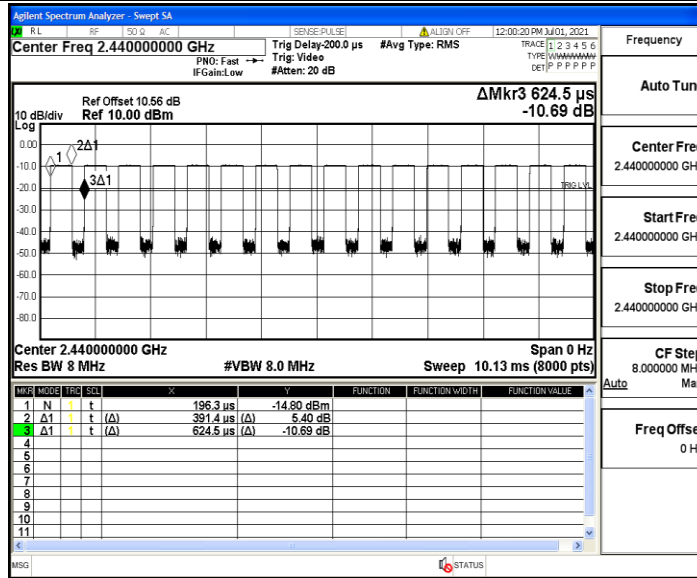
**A.8. Duty Cycle**

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/B[KHz]
BLE_1M	Ant1	2402	0.39	0.62	62.90	2.56
		2440	0.39	0.62	62.90	2.56
		2480	0.39	0.62	62.90	2.56

BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480

