

Test Report

Report No.: MTi230104014-01E1

Date of issue: 2023-01-16

Applicant: Zhuhai Quin Technology Co., Ltd.

Product: Multifunctional Portable Label Maker

Model(s): M200, M200Pro, QY-M200, QY-M200Pro, M220, M220S, M220Pro, M220A, M220C, M220T, CP-M220, QY-M220, QY-M220S, QY-M220Pro, QY-M220A, QY-M220C, QY-M220T, M221, M221Pro, QY-M221, QY-M221Pro, M201, M202, M203, M205, M206, M208, M209, QY-M201, QY-M202, QY-M203, QY-M205, QY-M206, QY-M208, QY-M209, M217, M217C, CP-M217, M219, M219C, CP-M219, QY-M217, QY-M217C, QY-M219, QY-M219C, M222, M223, M224, M225, M226, M228, M230, QY-M222, QY-M223, QY-M224, QY-M225, QY-M226, QY-M228, QY-M230, M300, QY-M300, S80, S80PRO, S80PRO+, M80, M80PRO, QY-S80, QY-S80PRO, QY-S80PRO+, QY-M80, QY-M80PRO

FCC ID: 2ASRB-M221

Shenzhen Microtest Co., Ltd.

<http://www.mtitest.com>

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Applicant:	Zhuhai Quin Technology Co., Ltd.
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Manufacturer:	Zhuhai Quin Technology Co., Ltd.
Address:	ROOM 103-029(CENTRALIZED OFFICE AREA), 1F, BUILDING 1, NO. 18 FUTIAN ROAD, XIANGZHOU DISTRICT, ZHUHAI CITY, CHINA
Factory:	Zhuhai Quin Technology Co., Ltd.
Address:	BLOCK 1 FLOOR 4, 5, 6, 7, BLOCK 2 FLOOR 1, 2, 3 ,4, 5, 6, NO.1 CUIZHU 4 STREET, QIANSHAN, XIANGZHOU DISCTRICT, ZHUHAI CITY
Product description	
Product name:	Multifunctional Portable Label Maker
Trademark:	N/A
Model name:	M200
Serial Model:	M200Pro, QY-M200, QY-M200Pro, M220, M220S, M220Pro, M220A, M220C, M220T, CP-M220, QY-M220, QY-M220S, QY-M220Pro, QY-M220A, QY-M220C, QY-M220T, M221, M221Pro, QY-M221, QY-M221Pro, M201, M202, M203, M205, M206, M208, M209, QY-M201, QY-M202, QY-M203, QY-M205, QY-M206, QY-M208, QY-M209, M217, M217C, CP-M217, M219, M219C, CP-M219, QY-M217, QY-M217C, QY-M219, QY-M219C, M222, M223, M224, M225, M226, M228, M230, QY-M222, QY-M223, QY-M224, QY-M225, QY-M226, QY-M228, QY-M230, M300, QY-M300, S80, S80PRO, S80PRO+, M80, M80PRO, QY-S80, QY-S80PRO, QY-S80PRO+, QY-M80, QY-M80PRO
Standards:	FCC 47 CFR Part 15 Subpart C
Test method:	ANSI C63.10-2013
Date of Test	
Date of test:	2023-01-09~2023-01-16
Test result:	Pass

Test Engineer :

Letter Lan.

(Letter Lan)

Reviewed By :

Leon Chen

(Leon Chen)

Approved By :

Tom Xue

(Tom Xue)

1 General Description

1.1 Description of EUT

Product name:	Multifunctional Portable Label Maker
Model name:	M200
Series Model:	M200Pro, QY-M200, QY-M200Pro, M220, M220S, M220Pro, M220A, M220C, M220T, CP-M220, QY-M220, QY-M220S, QY-M220Pro, QY-M220A, QY-M220C, QY-M220T, M221, M221Pro, QY-M221, QY-M221Pro, M201, M202, M203, M205, M206, M208, M209, QY-M201, QY-M202, QY-M203, QY-M205, QY-M206, QY-M208, QY-M209, M217, M217C, CP-M217, M219, M219C, CP-M219, QY-M217, QY-M217C, QY-M219, QY-M219C, M222, M223, M224, M225, M226, M228, M230, QY-M222, QY-M223, QY-M224, QY-M225, QY-M226, QY-M228, QY-M230, M300, QY-M300, S80, S80PRO, S80PRO+, M80, M80PRO, QY-S80, QY-S80PRO, QY-S80PRO+, QY-M80, QY-M80PRO
Model difference:	All the models are the same circuit and module, except the model name and color, appearance.
Electrical rating:	Input: DC 5V/2A Battery: DC 7.4V 2200mAh 16.28Wh
Hardware version:	Q198_A
Software version:	0.1.0
Accessories:	Cable: USB-A to USB-C(0.8m)
Test sample(s) number:	MTi230104014-01S1001
RF specification:	
Bluetooth version:	V5.1
Operation frequency:	2402 MHz ~ 2480 MHz
Modulation type:	GFSK
Antenna(s) information:	Antenna type: PCB antenna Antenna gain: -0.58 dBi
Max. peak conducted output power:	2.262 dBm

1.2 Description of test modes

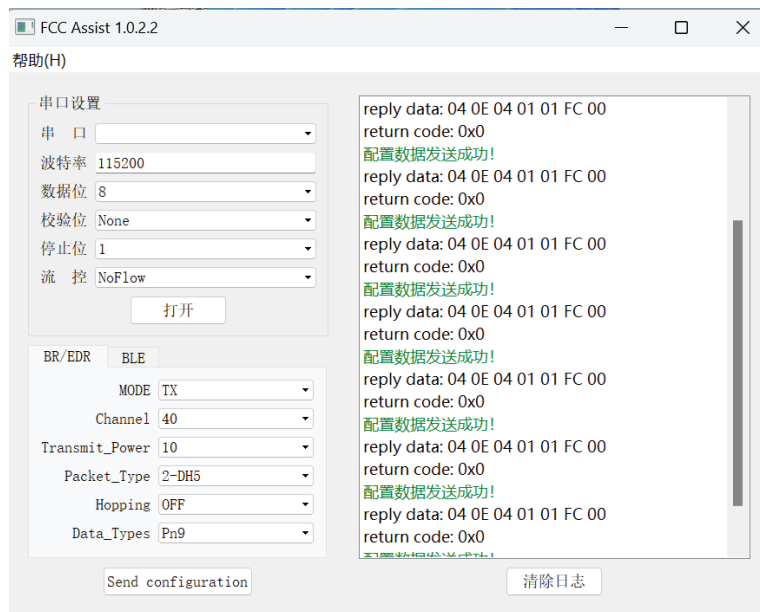
1.2.1 Operation channel list

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

Note: The test software has been used to control EUT for working in engineering mode, that enables selectable channel, and capable of continuous transmitting mode.

Mode	Test Software	FCCAiss1.0.2.2		
	Channel	2402MHz	2440MHz	2480MHz
BLE_1M	Power setting	Default	Default	Default
BLE_2M		Default	Default	Default

The test software:



The screenshot shows the FCC Assist 1.0.2.2 software interface. It features a '串口设置' (Serial Port Settings) section on the left with fields for '串 口' (COM Port), '波特率' (Baud Rate: 115200), '数据位' (Data Bits: 8), '校验位' (Parity: None), '停止位' (Stop Bits: 1), and '流 控' (Flow Control: NoFlow). Below this is a 'BR/EDR' section with a 'BLE' tab selected, showing 'MODE' (TX), 'Channel' (40), 'Transmit_Power' (10), 'Packet_Type' (2-DH5), 'Hopping' (OFF), and 'Data_Types' (Pn9). A 'Send configuration' button is at the bottom left. On the right, a log window displays repeated messages: 'reply data: 04 0E 04 01 01 FC 00', 'return code: 0x0', and '配置数据发送成功!' (Configuration data sent successfully!). A '清除日志' (Clear Log) button is at the bottom right.

1.3 Environmental conditions for testing

Environment of test site:

Temperature:	15°C~35°C
Humidity:	20 % RH ~ 75 % RH

1.4 Description of support units

Support equipment list			
Description	Model	Serial No.	Manufacturer
Adapter	HW-090200CH0	/	Huizhou BYD Electronics Co., Ltd.
Support cable list			
Description	Length (m)	From	To
/	/	/	/

2 Measurement uncertainty

Parameter	Measurement uncertainty
AC power line conducted emission (9 kHz~30 MHz)	± 2.5 dB
Occupied Bandwidth	± 3 %
Conducted RF output power	± 0.16 dB
Conducted spurious emissions	± 0.21 dB
Radiated emission (9 kHz ~ 30 MHz)	± 4.0 dB
Radiated emission (30 MHz~1 GHz)	± 4.2 dB
Radiated emission (above 1 GHz)	± 4.3 dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

3 Summary of Test Result

No.	FCC reference	Description of test	Result
1	§ 15.203	Antenna requirement	Pass
2	§ 15.207	AC power line conducted emissions	Pass
3	§ 15.247(d), 15.209, 15.205	Radiated spurious emissions	Pass
4	§ 15.247(a)(2)	DTS bandwidth	Pass
5	§ 15.247(b)(3)	Maximum conducted output power	Pass
6	§ 15.247(e)	Power Spectral Density	Pass
7	§ 15.247(d)	Conducted emission at the band edge	Pass
8	§ 15.247(d)	Conducted spurious emissions	Pass
9	/	Duty Cycle	Pass

4 Test Laboratory

Test laboratory:	Shenzhen Microtest Co., Ltd.
Test site location:	101, No.7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Telephone:	(86-755)88850135
Fax:	(86-755)88850136
CNAS Registration No.:	CNAS L5868
FCC Registration No.:	448573

5 Equipment List

No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due
MTi-E002	EMI Test Receiver	R&S	ESCI3	101368	2022/05/05	2023/05/04
MTi-E023	Artificial power network	Schwarzbeck	NSLK8127	NSLK8127#841	2022/05/05	2023/05/04
MTi-E025	Artificial power network	Schwarzbeck	NSLK8127	8127183	2022/05/05	2023/05/04
MTi-E043	EMI test receiver	R&S	ESCI7	101166	2022/05/05	2023/05/04
MTi-E046	Active Loop Antenna	Schwarzbeck	FMZB 1519 B	00044	2021/05/30	2023/05/29
MTi-E044	Broadband antenna	Schwarzbeck	VULB9163	9163-1338	2021/05/30	2023/05/29
MTi-E045	Horn antenna	Schwarzbeck	BBHA9120D	9120D-2278	2021/05/30	2023/05/29
MTi-E047	Pre-amplifier	Hewlett-Packard	8447F	3113A06184	2022/05/05	2023/05/04
MTi-E048	Pre-amplifier	Agilent	8449B	3008A01120	2022/05/05	2023/05/04
MTi-E120	Broadband antenna	Schwarzbeck	VULB9163	9163-1419	2021/05/30	2023/05/29
MTi-E121	Pre-amplifier	Hewlett-Packard	8447D	2944A09365	2022/04/15	2023/04/14
MTi-E123	Pre-amplifier	Agilent	8449B	3008A04723	2022/05/05	2023/05/04
MTi-E135	Horn antenna	Schwarzbeck	BBHA 9170	00987	2021/05/30	2023/05/29
MTi-E136	Pre-amplifier	Space-Dtronics	EWLAN1840G-G45	210405001	2022/05/05	2023/05/04
MTi-E062	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2022/05/05	2023/05/04
MTi-E067	RF Control Unit	Tonscend	JS0806-1	19D8060152	2022/05/05	2023/05/04
MTi-E068	RF Control Unit	Tonscend	JS0806-2	19D8060153	2022/05/05	2023/05/04
MTi-E069	Band Reject Filter Group	Tonscend	JS0806-F	19D8060160	2022/05/05	2023/05/04
MTi-E010S	EMI Measurement Software	Farad	EZ-EMC Ver. EMEC-3A1	/	/	/
MTi-E014S	RF Test System	Tonscend	TS@JS1120 V2.6.88.0330	/	/	/

Note: the calibration interval of the test equipment is 12 or 24 months and the calibrations are traceable to international system unit(SI)

6 Test Result

6.1 Antenna requirement

§ 15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

Description of the antenna of EUT

The antenna of the EUT is permanently attached.

Conclusion:

The EUT complies with the requirement of § 15.203.

6.2 AC power line conducted emissions

6.2.1 Limits

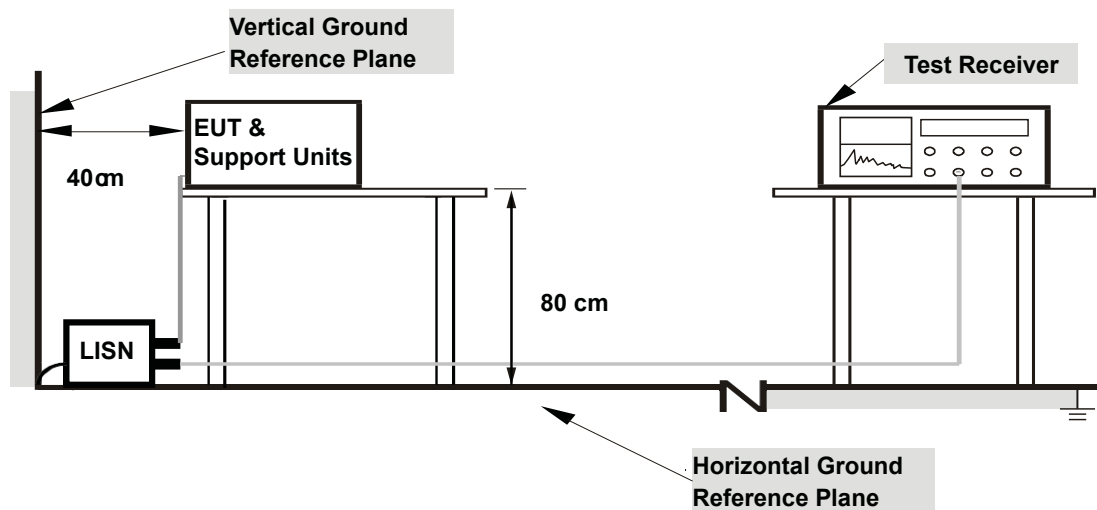
Frequency (MHz)	Detector type / Bandwidth	Limit-Quasi-peak dB μ V	Limit-Average dB μ V
0.15 -0.5	Average / 9 kHz	66 to 56	56 to 46
0.5 -5		56	46
5 -30		60	50

Note 1: the limit decreases with the logarithm of the frequency in the range of 0.15 MHz to 0.5 MHz.

6.2.2 Test Procedures

- Test method: ANSI C63.10-2013 Section 6.2.
- The EUT is connected to the main power through a line impedance stabilization network (LISN). All support equipment is powered from additional LISN(s).
- Emissions were measured on each current carrying line of the EUT using an EMI test receiver connected to the LISN powering the EUT.
- The test receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes described in Item 1.2.
- The test data of the worst-case condition(s) was recorded.

6.2.3 Test setup



For the actual test configuration, please refer to the related item – Photographs of the test setup.

6.2.4 Test Result

Notes:

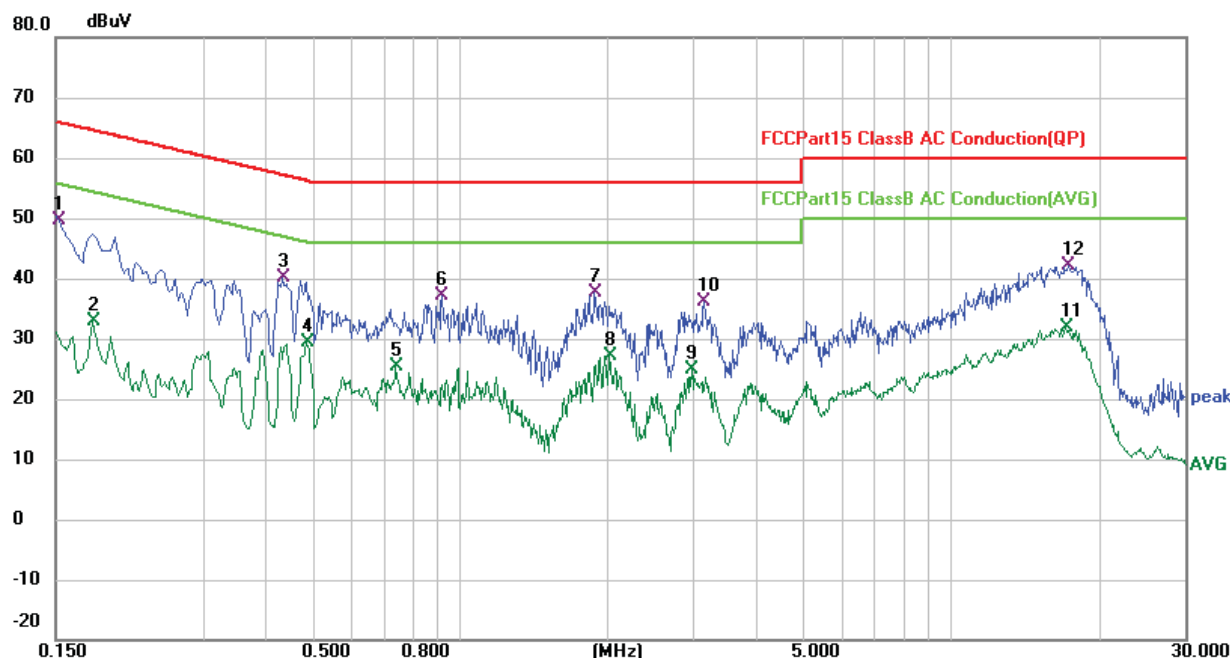
All modes of operation of the EUT were investigated, and only the worst-case results are reported.

Calculation formula:

Measurement (dB μ V) = Reading Level (dB μ V) + Correct Factor (dB)

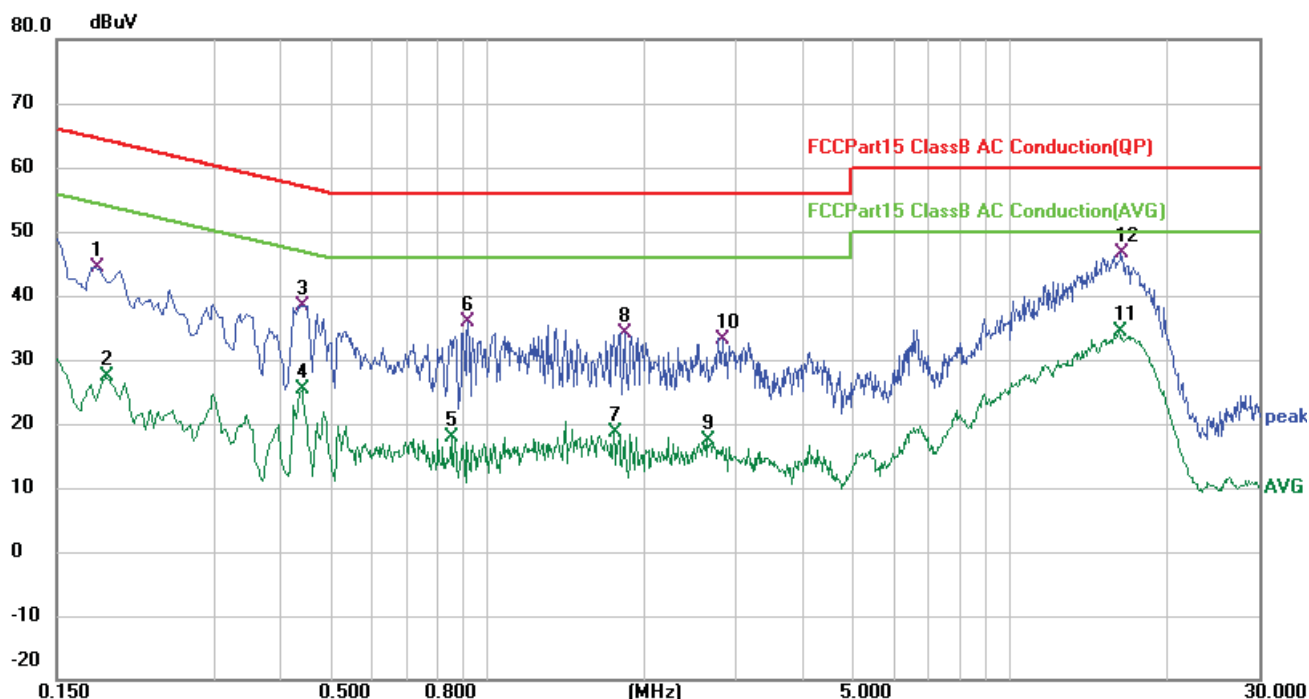
Over (dB) = Measurement (dB μ V) – Limit (dB μ V)

Test mode:	TX	Phase:	L
Power supply:	Power by AC/DC adapter (AC 120V/60Hz)	Test site:	CE chamber 1



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1	*	0.1524	39.30	10.28	49.58	65.87	-16.29	QP
2		0.1780	22.72	10.28	33.00	54.58	-21.58	AVG
3		0.4340	29.01	11.17	40.18	57.18	-17.00	QP
4		0.4860	18.04	11.30	29.34	46.24	-16.90	AVG
5		0.7420	13.51	11.85	25.36	46.00	-20.64	AVG
6		0.9220	24.97	12.23	37.20	56.00	-18.80	QP
7		1.8780	27.53	10.05	37.58	56.00	-18.42	QP
8		2.0220	17.16	10.01	27.17	46.00	-18.83	AVG
9		2.9660	14.60	10.26	24.86	46.00	-21.14	AVG
10		3.1500	25.94	10.27	36.21	56.00	-19.79	QP
11		17.1940	21.38	10.57	31.95	50.00	-18.05	AVG
12		17.3180	31.67	10.58	42.25	60.00	-17.75	QP

Test mode:	TX	Phase:	N
Power supply:	Power by AC/DC adapter (AC 120V/60Hz)	Test site:	CE chamber 1



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1780	34.19	10.24	44.43	64.58	-20.15	QP
2		0.1860	16.76	10.60	27.36	54.21	-26.85	AVG
3		0.4420	27.30	11.16	38.46	57.02	-18.56	QP
4		0.4420	14.33	11.16	25.49	47.02	-21.53	AVG
5		0.8540	5.74	12.06	17.80	46.00	-28.20	AVG
6		0.9220	23.66	12.18	35.84	56.00	-20.16	QP
7		1.7460	4.75	13.93	18.68	46.00	-27.32	AVG
8		1.8380	23.65	10.45	34.10	56.00	-21.90	QP
9		2.6460	7.06	10.36	17.42	46.00	-28.58	AVG
10		2.8260	22.78	10.33	33.11	56.00	-22.89	QP
11		16.2180	23.74	10.54	34.28	50.00	-15.72	AVG
12	*	16.3620	36.12	10.54	46.66	60.00	-13.34	QP

6.3 Radiated spurious emission

6.3.1 Limits

§ 15.247 (d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

§ 15.209 Radiated emission limits at restricted bands:

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note 1: the tighter limit applies at the band edges.

Note 2: the emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector

§ 15.35 (b) requirements:

When average radiated emission measurements are specified in this part, including average emission measurements below 1000 MHz, there also is a limit on the peak level of the radio frequency emissions. Unless otherwise specified, e.g., see §§ 15.250, 15.252, 15.253(d), 15.255, 15.256, and 15.509 through 15.519, the limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test.

According to ANSI C63.10-2013, the tests shall be performed in the frequency range shown in the following table:

Frequency range of measurements for unlicensed wireless device

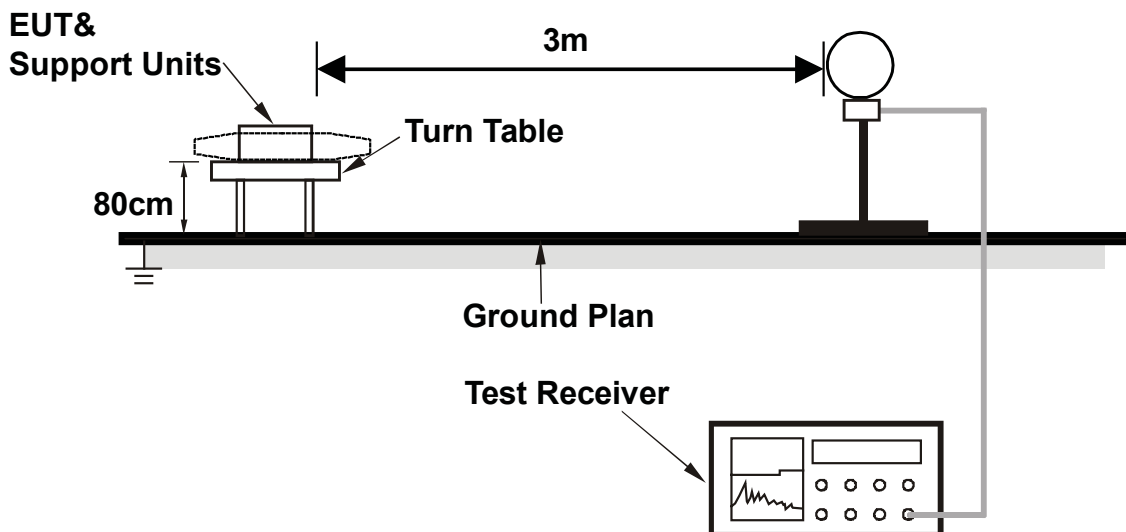
Lowest frequency generated in the device	Upper frequency range of measurement
9 kHz to below 10 GHz	10th harmonic of highest fundamental frequency or to 40 GHz, whichever is lower
At or above 10 GHz to below 30 GHz	5th harmonic of highest fundamental frequency or to 100 GHz, whichever is lower
At or above 30 GHz	5th harmonic of highest fundamental frequency or to 200 GHz, whichever is lower, unless otherwise specified

Frequency range of measurements for unlicensed wireless device with digital device

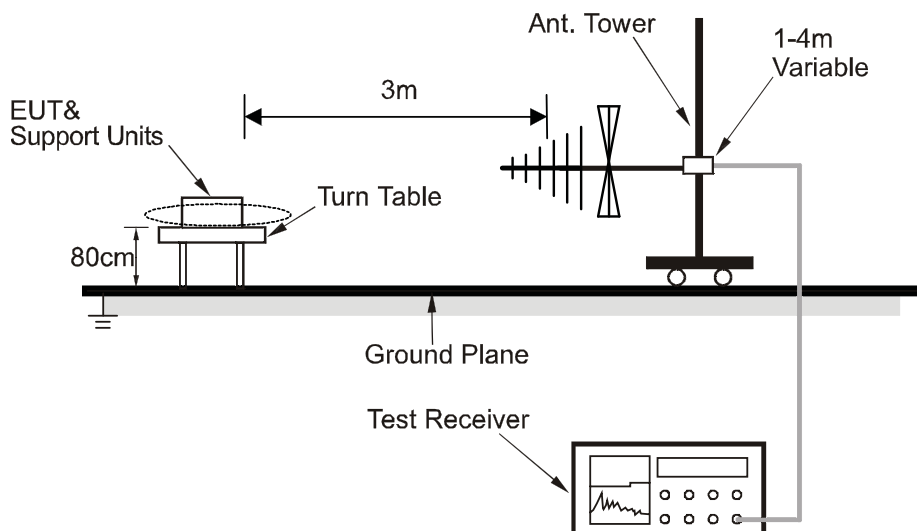
Highest frequency generated or used in the device or on which the device operates or tunes	Upper frequency range of measurement
Below 1.705 MHz	30 MHz
1.705 MHz to 108 MHz	1000 MHz
108 MHz to 500 MHz	2000 MHz
500 MHz to 1000 MHz	5000 MHz
Above 1000 MHz	5th harmonic of the highest frequency or 40 GHz, whichever is lower

6.3.2 Test setup

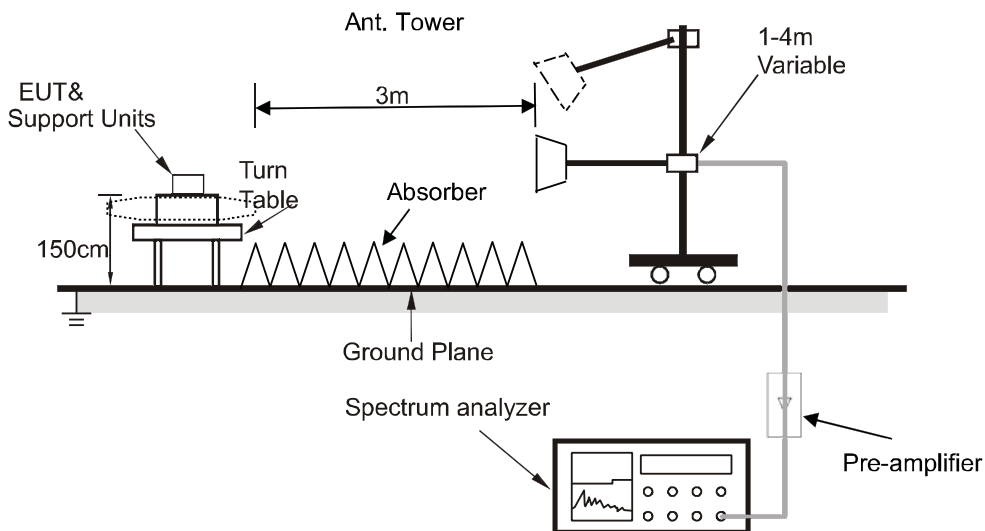
Below 30MHz:



30MHz~1GHz:



Above 1GHz:



For the actual test configuration, please refer to the related item – Photographs of the test setup.

6.3.3 Test procedure

- a) Test method: ANSI C63.10-2013 Section 6.3, 6.4, 6.5, 6.6, 11.11, 11.12, 11.13.
- b) The EUT is placed on an on-conducting table 0.8 meters above the ground plane for measurement below 1GHz, 1.5 meters above the ground plane for measurement above 1GHz.
- c) Emission blew 18 GHz were measured at a 3 meters test distance, above 18 GHz were measured at 1-meter test distance with the application of a distance correction factor
- d) The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

Test instrument setup

Frequency	Test receiver / Spectrum analyzer setting
9 kHz ~ 150 kHz	Quasi Peak / RBW: 200 Hz
150 kHz ~ 30 MHz	Quasi Peak / RBW: 9 kHz
30 MHz ~ 1 GHz	Quasi Peak / RBW: 120 kHz
Above 1 GHz	Peak / RBW: 1 MHz, VBW: 3MHz, Peak detector AVG / RBW: 1 MHz, VBW: 3MHz, Average detector

6.3.4 Test results

Notes:

The amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported.

All modes of operation of the EUT were investigated, and only the worst-case results are reported.

There were no emissions found below 30MHz within 20dB of the limit.

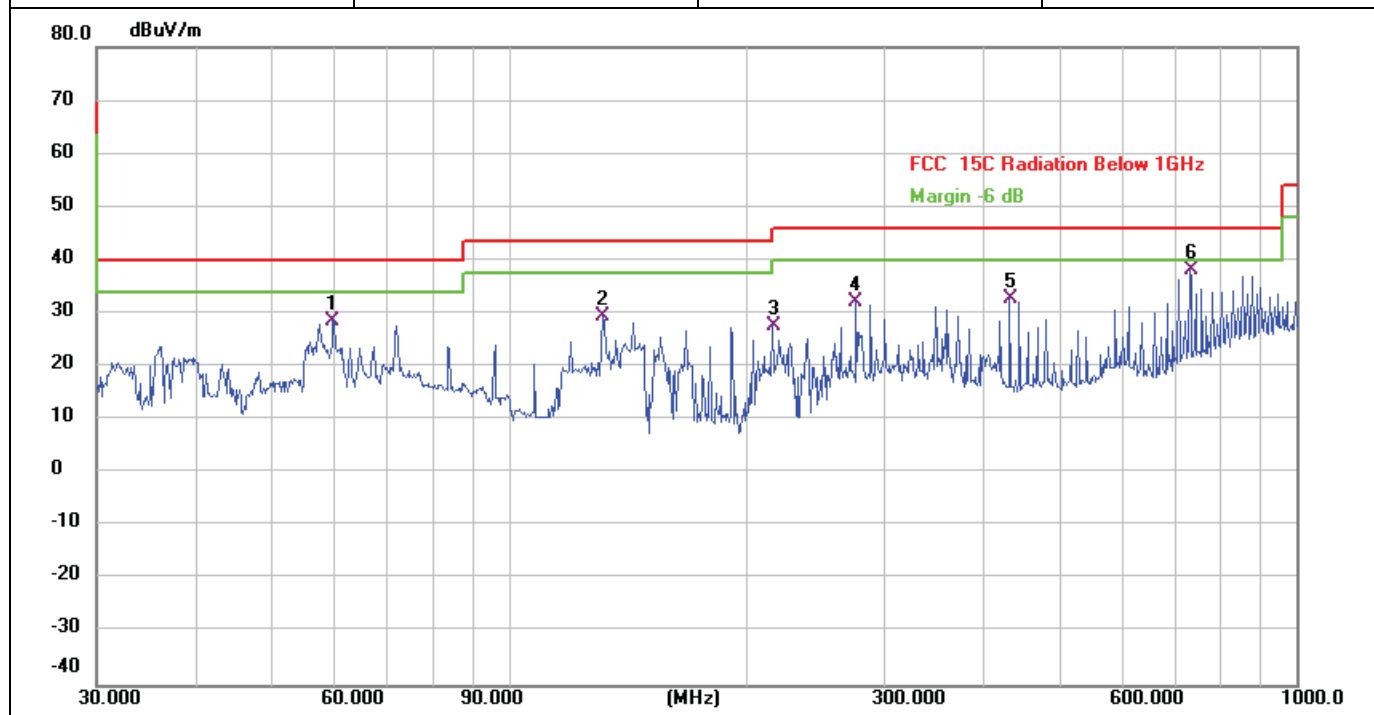
Calculation formula:

Measurement (dB μ V/m) = Reading Level (dB μ V) + Correct Factor (dB/m)

Over (dB) = Measurement (dB μ V/m) – Limit (dB μ V/m)

Main Model: M200
Radiated emissions between 30MHz – 1GHz

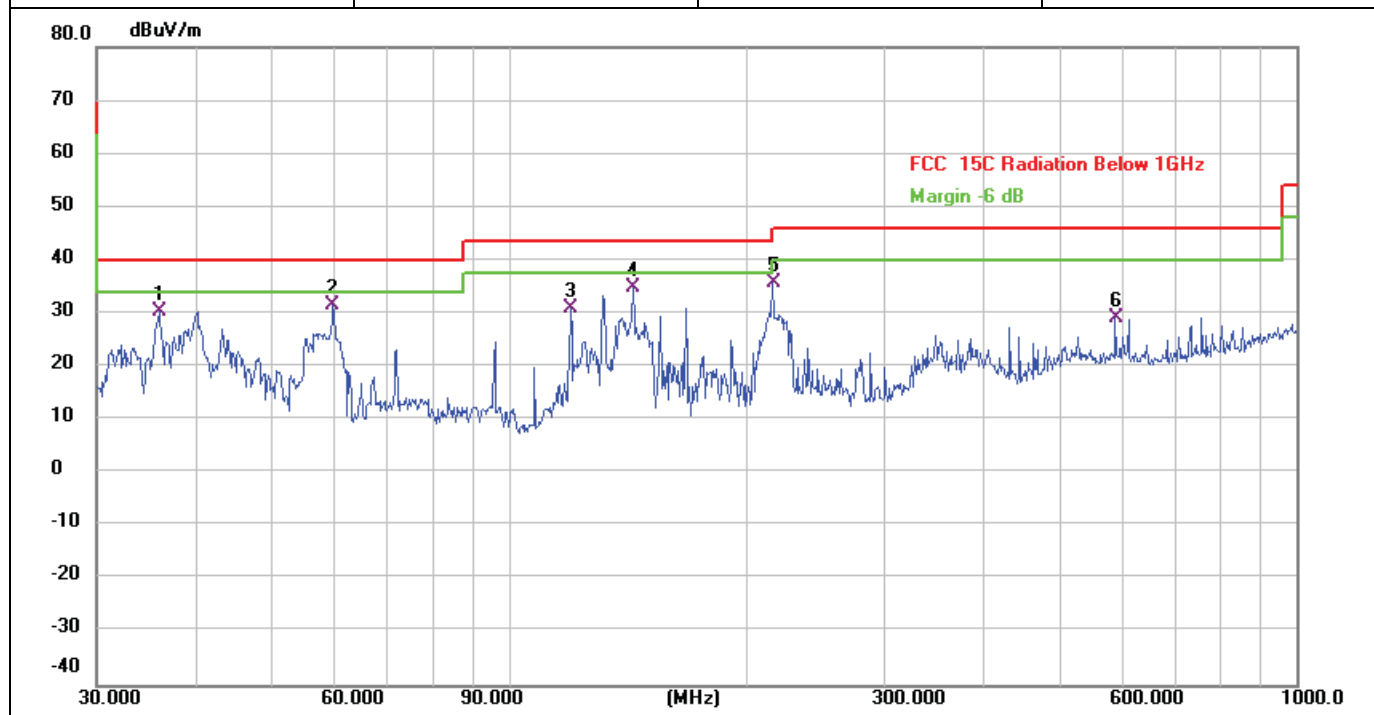
Test mode:	BLE 2Mbps - 2440 MHz TX mode	Polarization:	Horizontal
Power supply:	DC 7.4V	Test site:	RE chamber 2



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		59.8588	39.84	-11.19	28.65	40.00	-11.35	QP
2		131.7577	42.35	-12.83	29.52	43.50	-13.98	QP
3		216.0240	37.06	-9.40	27.66	46.00	-18.34	QP
4		276.1235	40.20	-7.92	32.28	46.00	-13.72	QP
5		432.5457	38.51	-5.90	32.61	46.00	-13.39	QP
6	*	731.9203	40.76	-2.46	38.30	46.00	-7.70	QP

Main Model: M200
Radiated emissions between 30MHz – 1GHz

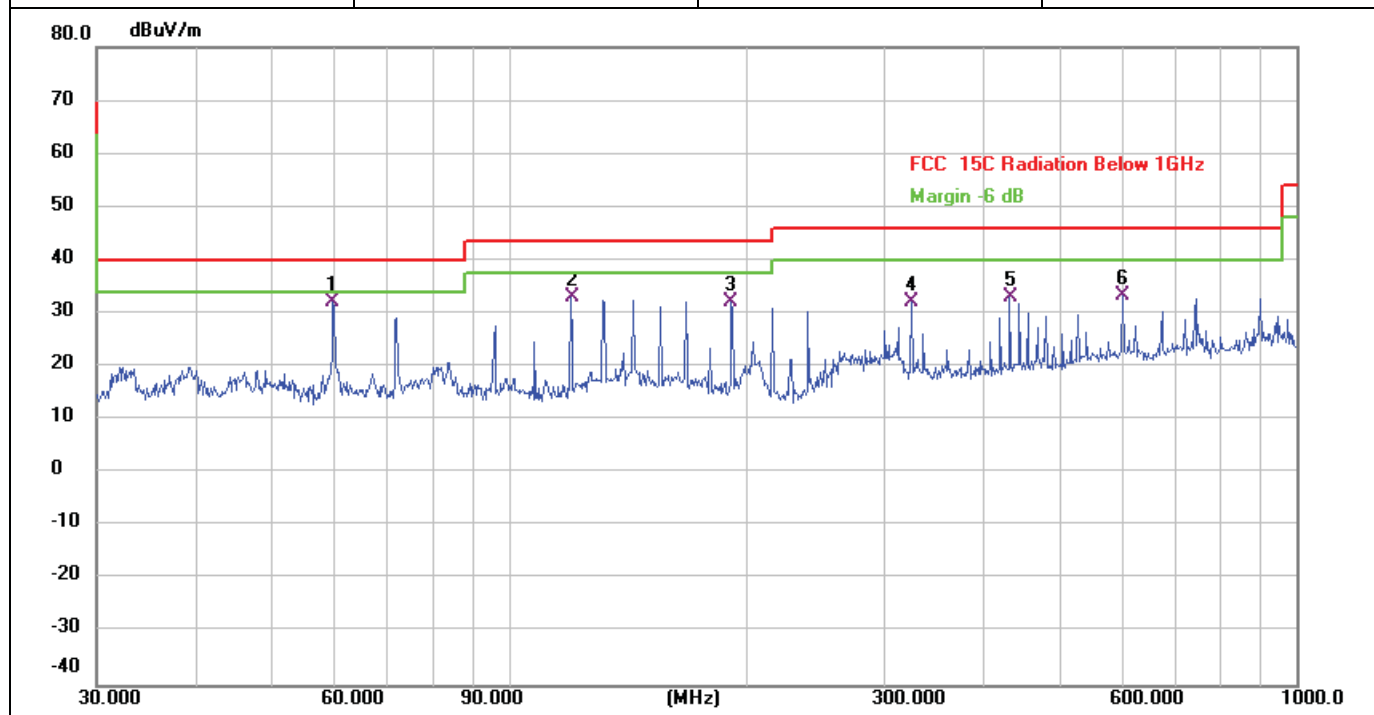
Test mode:	BLE 2Mbps - 2440 MHz TX mode	Polarization:	Vertical
Power supply:	DC 7.4V	Test site:	RE chamber 2



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		36.0007	40.41	-10.06	30.35	40.00	-9.65	QP
2	*	59.8588	42.85	-11.19	31.66	40.00	-8.34	QP
3		119.8556	43.20	-12.20	31.00	43.50	-12.50	QP
4		143.8295	47.51	-12.71	34.80	43.50	-8.70	QP
5		216.0240	45.06	-9.40	35.66	46.00	-10.34	QP
6		588.9051	31.99	-2.82	29.17	46.00	-16.83	QP

Series Model: M220
Radiated emissions between 30MHz – 1GHz

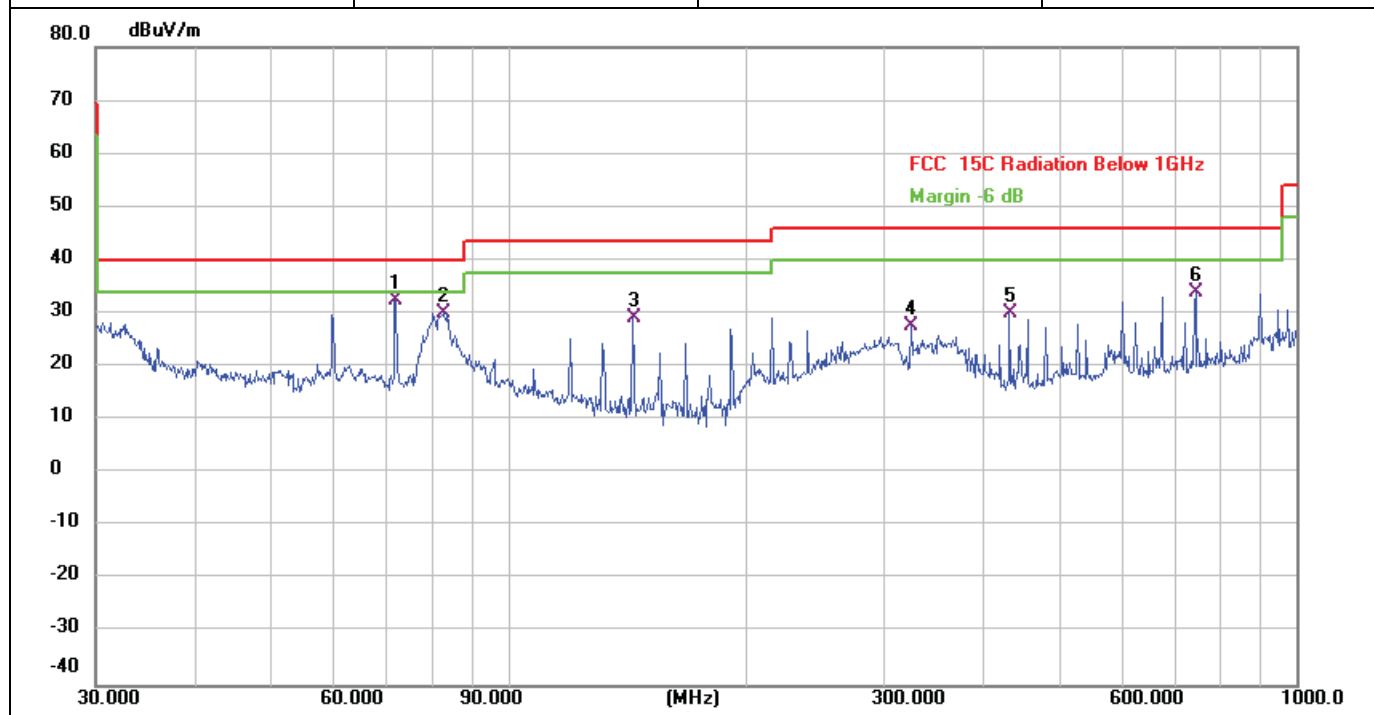
Test mode:	BLE 2Mbps - 2440 MHz TX mode	Polarization:	Horizontal
Power supply:	DC 7.4V	Test site:	RE chamber 2



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	*	59.8588	43.26	-11.11	32.15	40.00	-7.85	QP
2		119.8556	45.19	-12.15	33.04	43.50	-10.46	QP
3		191.7450	42.62	-10.51	32.11	43.50	-11.39	QP
4		324.4560	39.09	-6.94	32.15	46.00	-13.85	QP
5		432.5456	39.08	-5.92	33.16	46.00	-12.84	QP
6		601.4265	35.97	-2.73	33.24	46.00	-12.76	QP

Series Model: M220
Radiated emissions between 30MHz – 1GHz

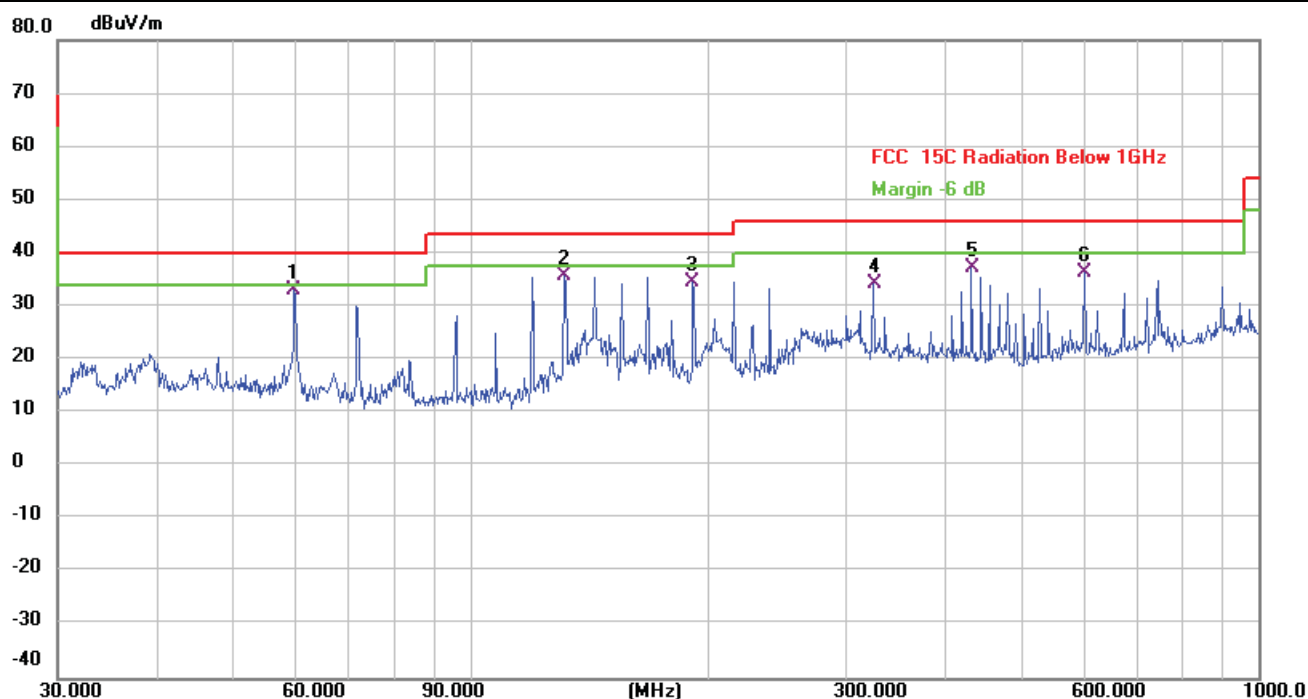
Test mode:	BLE 2Mbps - 2440 MHz TX mode	Polarization:	Vertical
Power supply:	DC 7.4V	Test site:	RE chamber 2



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	71.8320	44.10	-11.58	32.52	40.00	-7.48	QP
2		82.9384	41.58	-11.40	30.18	40.00	-9.82	QP
3		143.8295	41.91	-12.69	29.22	43.50	-14.28	QP
4		324.4560	34.66	-6.94	27.72	46.00	-18.28	QP
5		432.5456	35.89	-5.92	29.97	46.00	-16.03	QP
6		744.8660	36.29	-2.39	33.90	46.00	-12.10	QP

Series Model: M221
Radiated emissions between 30MHz – 1GHz

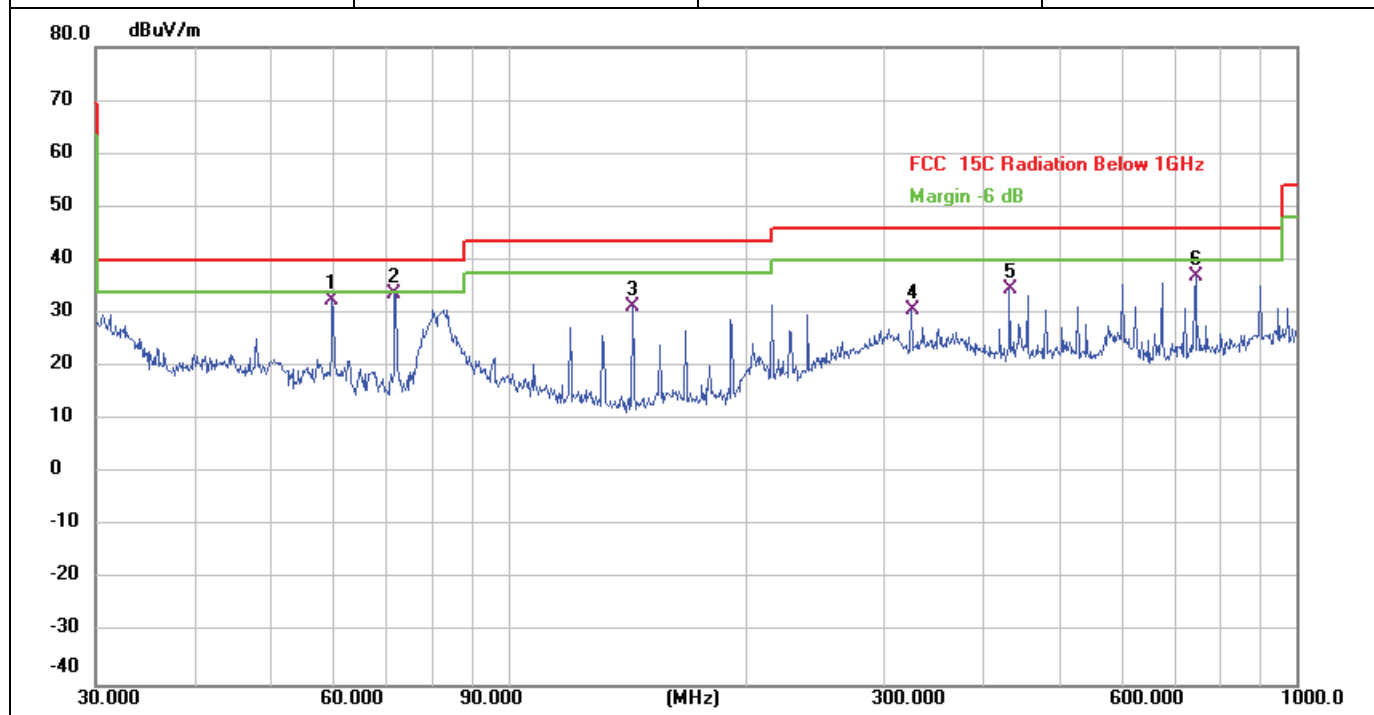
Test mode:	BLE 2Mbps - 2440 MHz TX mode	Polarization:	Horizontal
Power supply:	DC 7.4V	Test site:	RE chamber 2



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	*	59.8588	44.26	-11.11	33.15	40.00	-6.85	QP
2		131.7577	48.66	-12.78	35.88	43.50	-7.62	QP
3		191.7450	45.12	-10.51	34.61	43.50	-8.89	QP
4		324.4561	41.09	-6.94	34.15	46.00	-11.85	QP
5		432.5457	43.08	-5.92	37.16	46.00	-8.84	QP
6		601.4265	38.97	-2.73	36.24	46.00	-9.76	QP

Series Model: M221
Radiated emissions between 30MHz – 1GHz

Test mode:	BLE 2Mbps - 2440 MHz TX mode	Polarization:	Vertical
Power supply:	DC 7.4V	Test site:	RE chamber 2



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		59.8588	43.47	-11.11	32.36	40.00	-7.64	QP
2	*	71.8320	45.10	-11.58	33.52	40.00	-6.48	QP
3		143.8295	43.91	-12.69	31.22	43.50	-12.28	QP
4		324.4561	37.66	-6.94	30.72	46.00	-15.28	QP
5		432.5457	40.39	-5.92	34.47	46.00	-11.53	QP
6		744.8661	39.29	-2.39	36.90	46.00	-9.10	QP

Main Model: M200
Radiated emissions 1 GHz ~ 25 GHz

Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector	Polarization
(MHz)	(dBμV)	(dB/m)	(dBμV/m)	(dBμV/m)	(dB)	Peak/AVG	H/V
BLE 2Mbps - 2402 MHz TX mode							
4804.000	41.88	0.74	42.62	74.00	-31.38	Peak	V
4804.000	35.29	0.74	36.03	54.00	-17.97	AVG	V
7206.000	41.28	6.02	47.30	74.00	-26.70	Peak	V
7206.000	35.15	6.02	41.17	54.00	-12.83	AVG	V
9608.000	41.65	5.88	47.53	74.00	-26.47	Peak	V
9608.000	35.48	5.88	41.36	54.00	-12.64	AVG	V
4804.000	41.95	0.74	42.69	74.00	-31.31	Peak	H
4804.000	35.50	0.74	36.24	54.00	-17.76	AVG	H
7206.000	41.38	6.02	47.40	74.00	-26.60	Peak	H
7206.000	35.00	6.02	41.02	54.00	-12.98	AVG	H
9608.000	41.42	5.88	47.30	74.00	-26.70	Peak	H
9608.000	35.26	5.88	41.14	54.00	-12.86	AVG	H
BLE 2Mbps - 2440 MHz TX mode							
4880.000	42.59	1.04	43.63	74.00	-30.37	Peak	V
4880.000	36.16	1.04	37.20	54.00	-16.80	AVG	V
7320.000	40.39	5.93	46.32	74.00	-27.68	Peak	V
7320.000	34.19	5.93	40.12	54.00	-13.88	AVG	V
9760.000	41.47	6.55	48.02	74.00	-25.98	Peak	V
9760.000	35.46	6.55	42.01	54.00	-11.99	AVG	V
4880.000	41.11	1.04	42.15	74.00	-31.85	Peak	H
4880.000	34.97	1.04	36.01	54.00	-17.99	AVG	H
7320.000	39.69	5.93	45.62	74.00	-28.38	Peak	H
7320.000	33.39	5.93	39.32	54.00	-14.68	AVG	H
9760.000	42.07	6.55	48.62	74.00	-25.38	Peak	H
9760.000	35.46	6.55	42.01	54.00	-11.99	AVG	H

Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector	Polarization
(MHz)	(dBμV)	(dB/m)	(dBμV/m)	(dBμV/m)	(dB)	Peak/AVG	H/V
BLE 2Mbps - 2480 MHz TX mode							
4960.000	40.30	1.50	41.80	74.00	-32.20	Peak	V
4960.000	33.76	1.50	35.26	54.00	-18.74	AVG	V
7440.000	39.08	5.61	44.69	74.00	-29.31	Peak	V
7440.000	32.72	5.61	38.33	54.00	-15.67	AVG	V
9920.000	41.47	6.10	47.57	74.00	-26.43	Peak	V
9920.000	35.11	6.10	41.21	54.00	-12.79	AVG	V
4960.000	40.36	1.50	41.86	74.00	-32.14	Peak	H
4960.000	33.84	1.50	35.34	54.00	-18.66	AVG	H
7440.000	40.19	5.61	45.80	74.00	-28.20	Peak	H
7440.000	33.84	5.61	39.45	54.00	-14.55	AVG	H
9920.000	40.98	6.10	47.08	74.00	-26.92	Peak	H
9920.000	35.00	6.10	41.10	54.00	-12.90	AVG	H

Main Model: M200
Radiated emissions at band edge

Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector	Polarization
(MHz)	(dBμV)	(dB/m)	(dBμV/m)	(dBμV/m)	(dB)	Peak/AVG	H/V
BLE 2Mbps – Low band-edge							
(MHz)	(dBμV)	(dB/m)	(dBμV/m)	(dBμV/m)	(dB)	Peak/AVG	H/V
2310.000	45.97	-8.08	37.89	74.00	-36.11	Peak	V
2310.000	37.20	-8.08	29.12	54.00	-24.88	AVG	V
2390.000	47.48	-7.71	39.77	74.00	-34.23	Peak	V
2390.000	37.61	-7.71	29.90	54.00	-24.10	AVG	V
2310.000	47.75	-8.08	39.67	74.00	-34.33	Peak	H
2310.010	37.37	-8.08	29.29	54.00	-24.71	AVG	H
2390.000	50.48	-7.71	42.77	74.00	-31.23	Peak	H
2390.000	40.01	-7.71	32.30	54.00	-21.70	AVG	H
BLE 2Mbps – High band-edge							
2483.500	47.47	-7.24	40.23	74.00	-33.77	Peak	V
2483.500	37.56	-7.24	30.32	54.00	-23.68	AVG	V
2500.000	48.56	-7.17	41.39	74.00	-32.61	Peak	V
2500.000	37.78	-7.17	30.61	54.00	-23.39	AVG	V
2483.500	52.26	-7.24	45.02	74.00	-28.98	Peak	H
2483.500	38.12	-7.24	30.88	54.00	-23.12	AVG	H
2500.000	48.92	-7.17	41.75	74.00	-32.25	Peak	H
2500.000	39.38	-7.17	32.21	54.00	-21.79	AVG	H

Series Model: M220
Radiated emissions 1 GHz ~ 25 GHz

Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector	Polarization
(MHz)	(dBμV)	(dB/m)	(dBμV/m)	(dBμV/m)	(dB)	Peak/AVG	H/V
BLE 2Mbps - 2402 MHz TX mode							
4804.000	42.02	0.81	42.83	74.00	-31.17	Peak	V
4804.000	35.54	0.81	36.35	54.00	-17.65	AVG	V
7206.000	40.21	5.86	46.07	74.00	-27.93	Peak	V
7206.000	34.24	5.86	40.10	54.00	-13.90	AVG	V
9608.000	41.26	6.32	47.58	74.00	-26.42	Peak	V
9608.000	34.93	6.32	41.25	54.00	-12.75	AVG	V
4804.000	46.21	0.81	47.02	74.00	-26.98	Peak	H
4804.000	40.31	0.81	41.12	54.00	-12.88	AVG	H
7206.000	40.41	5.86	46.27	74.00	-27.73	Peak	H
7206.000	34.37	5.86	40.23	54.00	-13.77	AVG	H
9608.000	41.58	6.32	47.90	74.00	-26.10	Peak	H
9608.000	35.27	6.32	41.59	54.00	-12.41	AVG	H
BLE 2Mbps - 2440 MHz TX mode							
4880.000	43.36	1.17	44.53	74.00	-29.47	Peak	V
4880.000	37.17	1.17	38.34	54.00	-15.66	AVG	V
7320.000	40.50	5.52	46.02	74.00	-27.98	Peak	V
7320.000	34.58	5.52	40.10	54.00	-13.90	AVG	V
9760.000	40.48	6.21	46.69	74.00	-27.31	Peak	V
9760.000	34.24	6.21	40.45	54.00	-13.55	AVG	V
4880.000	47.45	1.17	48.62	74.00	-25.38	Peak	H
4880.000	41.08	1.17	42.25	54.00	-11.75	AVG	H
7320.000	41.24	5.52	46.76	74.00	-27.24	Peak	H
7320.000	35.02	5.52	40.54	54.00	-13.46	AVG	H
9760.000	40.56	6.21	46.77	74.00	-27.23	Peak	H
9760.000	34.17	6.21	40.38	54.00	-13.62	AVG	H

Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector	Polarization
(MHz)	(dBμV)	(dB/m)	(dBμV/m)	(dBμV/m)	(dB)	Peak/AVG	H/V
BLE 2Mbps - 2480 MHz TX mode							
4960.000	42.41	1.53	43.94	74.00	-30.06	Peak	V
4960.000	35.85	1.53	37.38	54.00	-16.62	AVG	V
7440.000	39.50	5.16	44.66	74.00	-29.34	Peak	V
7440.000	33.09	5.16	38.25	54.00	-15.75	AVG	V
9920.000	41.56	6.09	47.65	74.00	-26.35	Peak	V
9920.000	35.37	6.09	41.46	54.00	-12.54	AVG	V
4960.000	48.46	1.53	49.99	74.00	-24.01	Peak	H
4960.000	41.84	1.53	43.37	54.00	-10.63	AVG	H
7440.000	39.54	5.16	44.70	74.00	-29.30	Peak	H
7440.000	33.09	5.16	38.25	54.00	-15.75	AVG	H
9920.000	41.04	6.09	47.13	74.00	-26.87	Peak	H
9920.000	35.01	6.09	41.10	54.00	-12.90	AVG	H

Series Model: M220
Radiated emissions at band edge

Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector	Polarization
(MHz)	(dBμV)	(dB/m)	(dBμV/m)	(dBμV/m)	(dB)	Peak/AVG	H/V
BLE 2Mbps – Low band-edge							
(MHz)	(dBμV)	(dB/m)	(dBμV/m)	(dBμV/m)	(dB)	Peak/AVG	H/V
2310.000	46.07	-8.20	37.87	74.00	-36.13	Peak	V
2310.000	35.93	-8.20	27.73	54.00	-26.27	AVG	V
2390.000	46.09	-7.83	38.26	74.00	-35.74	Peak	V
2390.000	37.23	-7.83	29.40	54.00	-24.60	AVG	V
2310.000	47.76	-8.20	39.56	74.00	-34.44	Peak	H
2310.000	36.90	-8.20	28.70	54.00	-25.30	AVG	H
2390.000	52.13	-7.83	44.30	74.00	-29.70	Peak	H
2390.000	41.04	-7.83	33.21	54.00	-20.79	AVG	H
BLE 2Mbps – High band-edge							
2483.500	49.20	-7.39	41.81	74.00	-32.19	Peak	V
2483.500	38.78	-7.39	31.39	54.00	-22.61	AVG	V
2500.000	48.53	-7.32	41.21	74.00	-32.79	Peak	V
2500.000	38.84	-7.32	31.52	54.00	-22.48	AVG	V
2483.500	49.91	-7.39	42.52	74.00	-31.48	Peak	H
2483.500	39.38	-7.39	31.99	54.00	-22.01	AVG	H
2500.000	49.54	-7.32	42.22	74.00	-31.78	Peak	H
2500.000	40.40	-7.32	33.08	54.00	-20.92	AVG	H

Series Model: M221
Radiated emissions 1 GHz ~ 25 GHz

Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector	Polarization
(MHz)	(dBμV)	(dB/m)	(dBμV/m)	(dBμV/m)	(dB)	Peak/AVG	H/V
BLE 2Mbps - 2402 MHz TX mode							
4804.000	41.89	0.81	42.70	74.00	-31.30	Peak	V
4804.000	35.54	0.81	36.35	54.00	-17.65	AVG	V
7206.000	39.43	5.86	45.29	74.00	-28.71	Peak	V
7206.000	33.28	5.86	39.14	54.00	-14.86	AVG	V
9608.000	41.41	6.32	47.73	74.00	-26.27	Peak	V
9608.000	35.07	6.32	41.39	54.00	-12.61	AVG	V
4804.000	45.40	0.81	46.21	74.00	-27.79	Peak	H
4804.000	39.34	0.81	40.15	54.00	-13.85	AVG	H
7206.000	40.00	5.86	45.86	74.00	-28.14	Peak	H
7206.000	33.52	5.86	39.38	54.00	-14.62	AVG	H
9608.000	41.81	6.32	48.13	74.00	-25.87	Peak	H
9608.000	35.79	6.32	42.11	54.00	-11.89	AVG	H
BLE 2Mbps - 2440 MHz TX mode							
4880.000	41.00	1.17	42.17	74.00	-31.83	Peak	V
4880.000	34.95	1.17	36.12	54.00	-17.88	AVG	V
7320.000	40.48	5.52	46.00	74.00	-28.00	Peak	V
7320.000	34.59	5.52	40.11	54.00	-13.89	AVG	V
9760.000	40.41	6.21	46.62	74.00	-27.38	Peak	V
9760.000	34.22	6.21	40.43	54.00	-13.57	AVG	V
4880.000	46.67	1.17	47.84	74.00	-26.16	Peak	H
4880.000	40.35	1.17	41.52	54.00	-12.48	AVG	H
7320.000	41.04	5.52	46.56	74.00	-27.44	Peak	H
7320.000	34.83	5.52	40.35	54.00	-13.65	AVG	H
9760.000	40.87	6.21	47.08	74.00	-26.92	Peak	H
9760.000	34.84	6.21	41.05	54.00	-12.95	AVG	H

Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector	Polarization
(MHz)	(dBμV)	(dB/m)	(dBμV/m)	(dBμV/m)	(dB)	Peak/AVG	H/V
BLE 2Mbps - 2480 MHz TX mode							
4960.000	43.99	1.53	45.52	74.00	-28.48	Peak	V
4960.000	37.82	1.53	39.35	54.00	-14.65	AVG	V
7440.000	39.67	5.16	44.83	74.00	-29.17	Peak	V
7440.000	33.38	5.16	38.54	54.00	-15.46	AVG	V
9920.000	40.67	6.09	46.76	74.00	-27.24	Peak	V
9920.000	34.29	6.09	40.38	54.00	-13.62	AVG	V
4960.000	48.40	1.53	49.93	74.00	-24.07	Peak	H
4960.000	41.86	1.53	43.39	54.00	-10.61	AVG	H
7440.000	39.67	5.16	44.83	74.00	-29.17	Peak	H
7440.000	33.38	5.16	38.54	54.00	-15.46	AVG	H
9920.000	40.25	6.09	46.34	74.00	-27.66	Peak	H
9920.000	34.06	6.09	40.15	54.00	-13.85	AVG	H

Series Model: M221
Radiated emissions at band edge

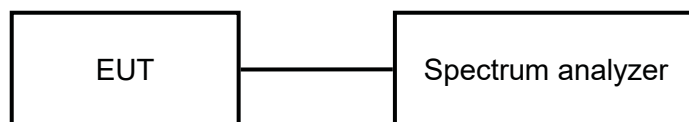
Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector	Polarization
(MHz)	(dBμV)	(dB/m)	(dBμV/m)	(dBμV/m)	(dB)	Peak/AVG	H/V
BLE 2Mbps – Low band-edge							
(MHz)	(dBμV)	(dB/m)	(dBμV/m)	(dBμV/m)	(dB)	Peak/AVG	H/V
2310.000	46.85	-8.20	38.65	74.00	-35.35	Peak	V
2310.000	37.24	-8.20	29.04	54.00	-24.96	AVG	V
2390.000	47.57	-7.83	39.74	74.00	-34.26	Peak	V
2390.000	37.60	-7.83	29.77	54.00	-24.23	AVG	V
2310.000	46.93	-8.20	38.73	74.00	-35.27	Peak	H
2310.000	37.22	-8.20	29.02	54.00	-24.98	AVG	H
2390.000	50.35	-7.83	42.52	74.00	-31.48	Peak	H
2390.000	40.16	-7.83	32.33	54.00	-21.67	AVG	H
BLE 2Mbps – High band-edge							
2483.500	46.54	-7.39	39.15	74.00	-34.85	Peak	V
2483.500	37.67	-7.39	30.28	54.00	-23.72	AVG	V
2500.000	46.83	-7.32	39.51	74.00	-34.49	Peak	V
2500.000	37.72	-7.32	30.40	54.00	-23.60	AVG	V
2483.500	50.59	-7.39	43.20	74.00	-30.80	Peak	H
2483.500	38.55	-7.39	31.16	54.00	-22.84	AVG	H
2500.000	50.94	-7.32	43.62	74.00	-30.38	Peak	H
2500.000	39.37	-7.32	32.05	54.00	-21.95	AVG	H

6.4 DTS bandwidth

6.4.1 Limits

Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

6.4.2 Test setup



6.4.3 Test procedures

Test method: ANSI C63.10-2013 Section 11.8.1

6.4.4 Test results

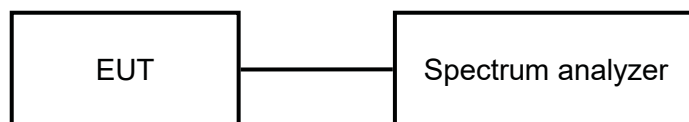
Note: See the appendix A

6.5 Maximum conducted output power

6.5.1 Limits

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt.

6.5.2 Test setup



6.5.3 Test procedure

Test method for peak power: ANSI C63.10-2013 Section 11.9.1.1

Test method for average power: ANSI C63.10-2013 Section 11.9.2.3.1 Method AVGPM

6.5.4 Test results

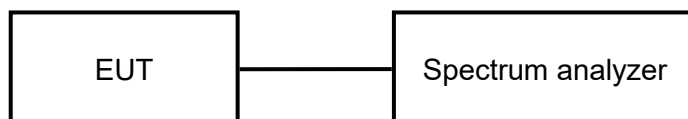
Note: see the appendix B

6.6 Power spectral density

6.6.1 Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

6.6.2 Test setup



6.6.3 Test Procedure

Test method: ANSI C63.10-2013 Section 11.10.2

6.6.4 Test Results

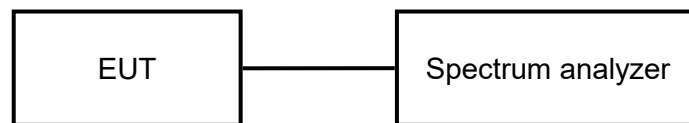
Note: see the appendix C

6.7 Band edge (Conducted)

6.7.1 Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

6.7.2 Test setup



6.7.3 Test procedure

Test method: ANSI C63.10-2013 Section 11.13

6.7.4 Test results

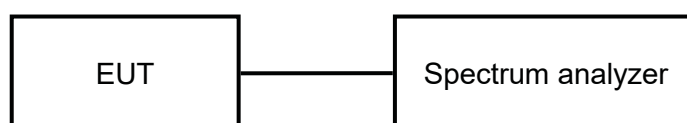
Note: see the appendix D

6.8 Conducted spurious emissions

6.8.1 Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

6.8.2 Test setup



6.8.3 Test procedure

Test method: ANSI C63.10-2013 Section 11.11

6.8.4 Test results

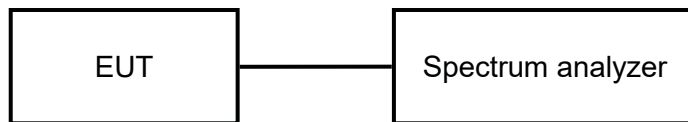
Note: see the appendix E

6.9 Duty Cycle

6.9.1 Conformance Limit

None, for reporting purposes only.

6.9.2 Test setup



6.9.3 Test procedure

Test method: KDB 558074 section 6, zero-span spectrum analyzer method.

6.9.4 Test Results

Note: see the appendix F

Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	0.680	0.5	PASS
		2440	0.700	0.5	PASS
		2480	0.736	0.5	PASS
BLE_2M	Ant1	2402	1.240	0.5	PASS
		2440	1.148	0.5	PASS
		2480	1.148	0.5	PASS

Test Graphs

BLE 1M Ant1 2402



BLE 1M Ant1 2440



BLE 1M Ant1 2480



BLE 2M Ant1 2402



BLE 2M Ant1 2440



BLE 2M Ant1 2480

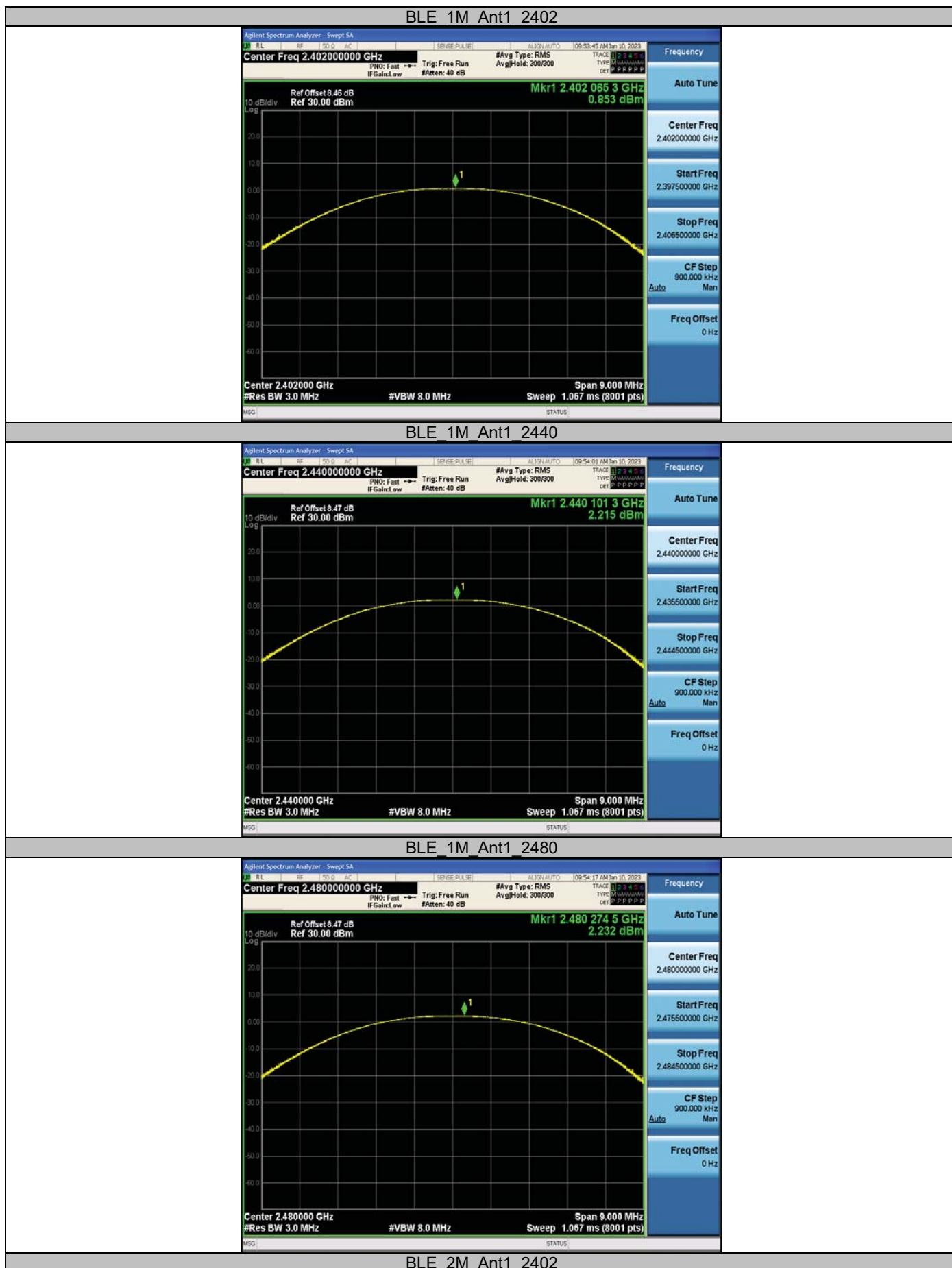


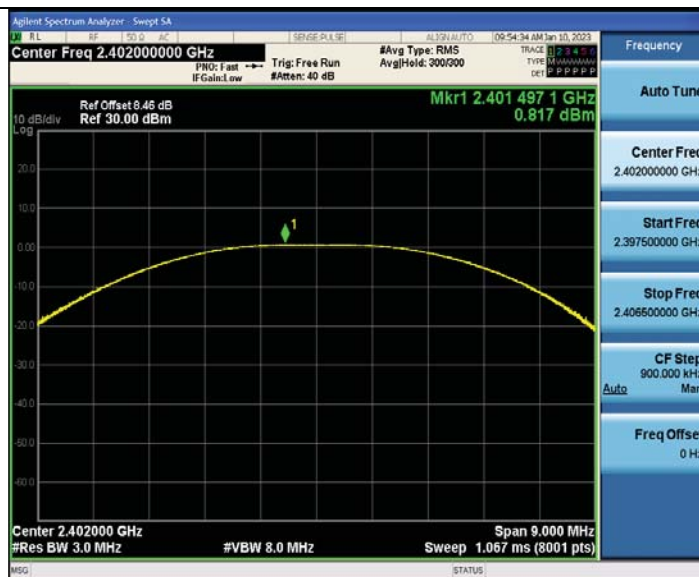
Appendix B: Maximum conducted output power

Test Result-Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0.853	≤30	PASS
		2440	2.215	≤30	PASS
		2480	2.232	≤30	PASS
BLE_2M	Ant1	2402	0.817	≤30	PASS
		2440	2.262	≤30	PASS
		2480	2.245	≤30	PASS

Test Graphs

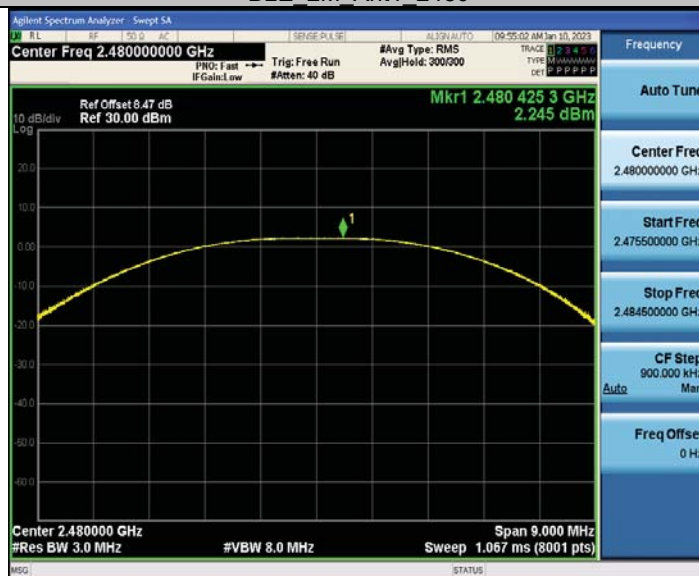




BLE 2M Ant1 2440



BLE 2M Ant1 2480

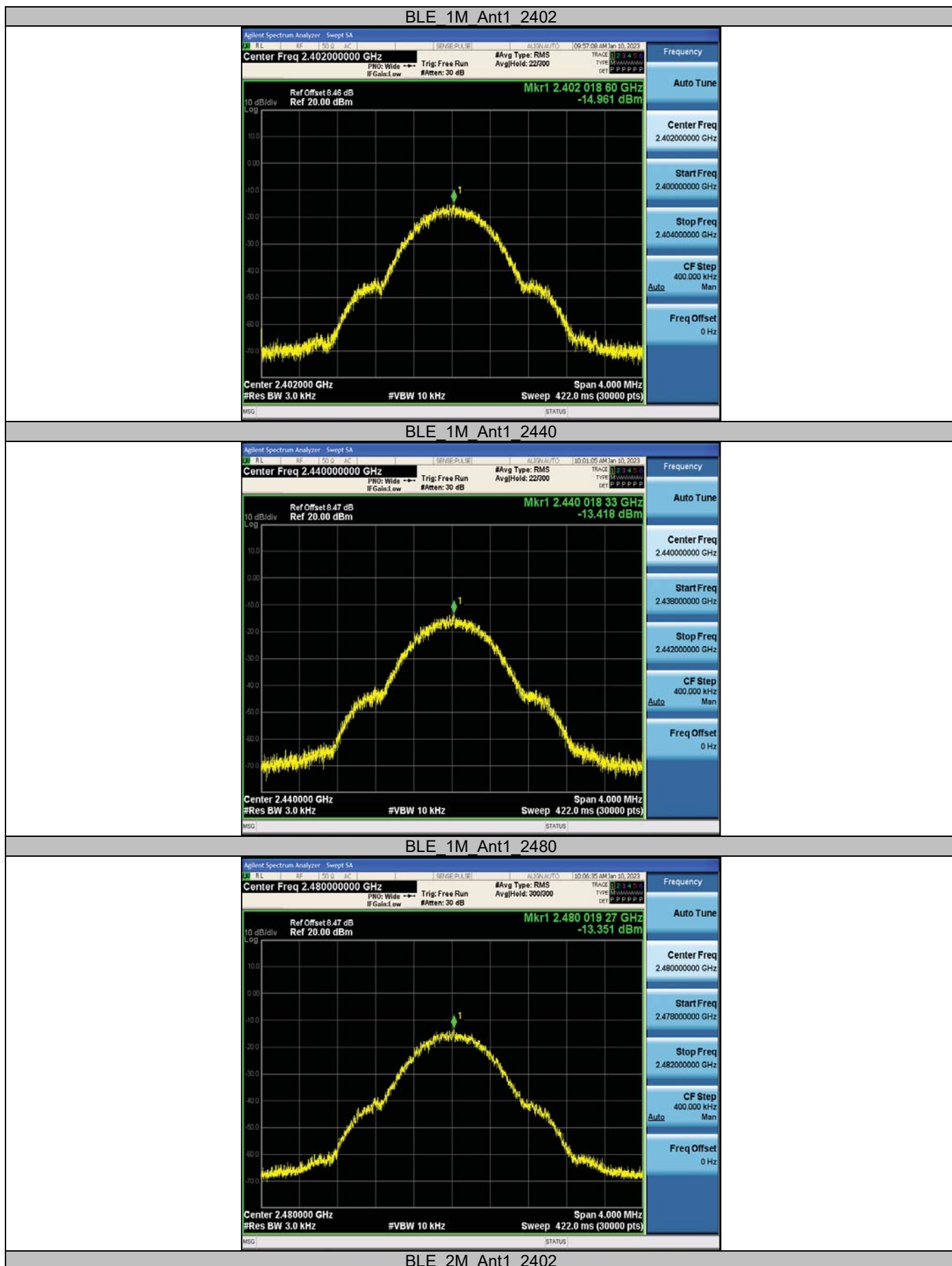


Appendix C: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.96	≤8.00	PASS
		2440	-13.42	≤8.00	PASS
		2480	-13.35	≤8.00	PASS
BLE_2M	Ant1	2402	-18.54	≤8.00	PASS
		2440	-17.1	≤8.00	PASS
		2480	-16.85	≤8.00	PASS

Test Graphs





BLE 2M Ant1 2440

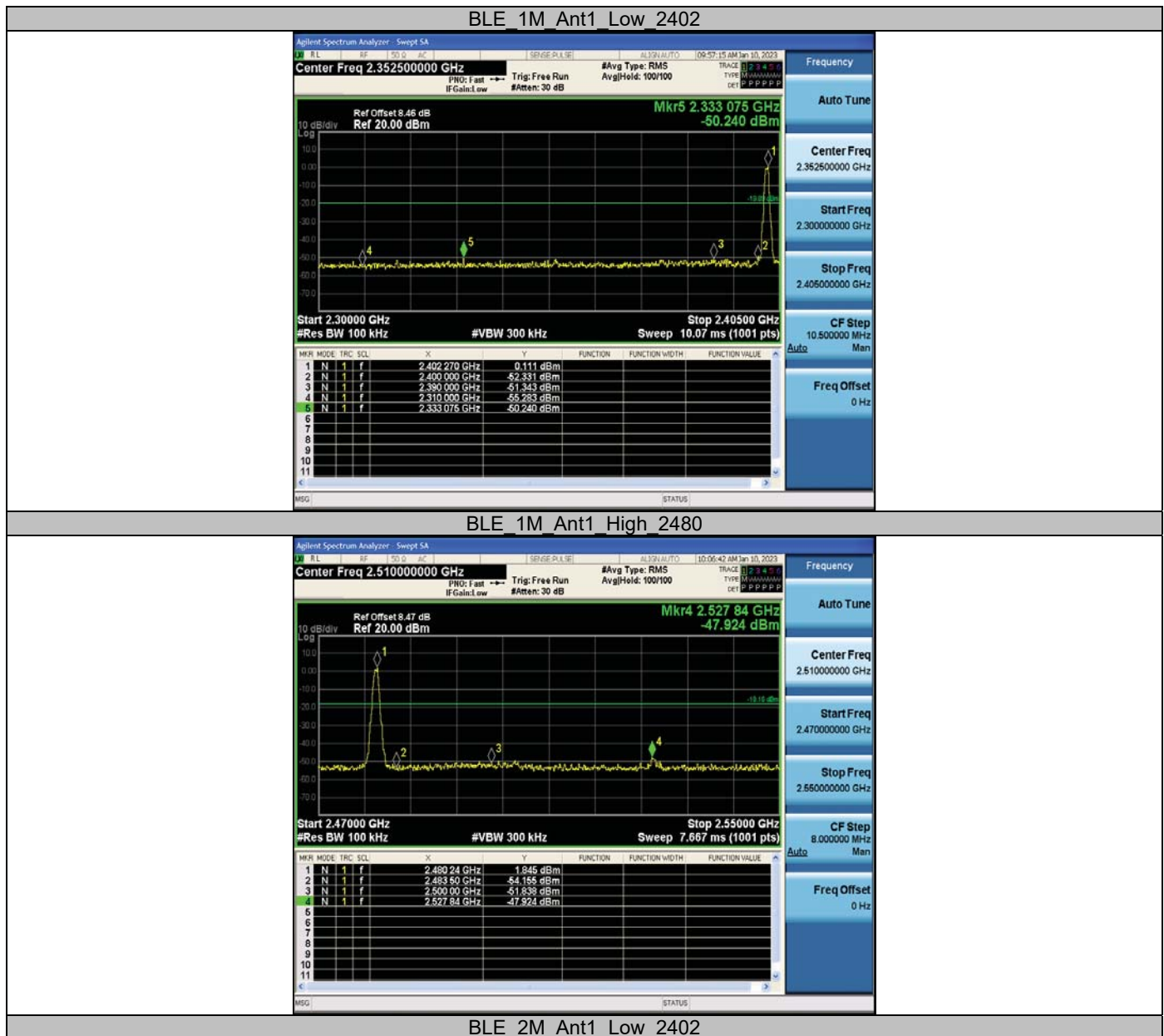


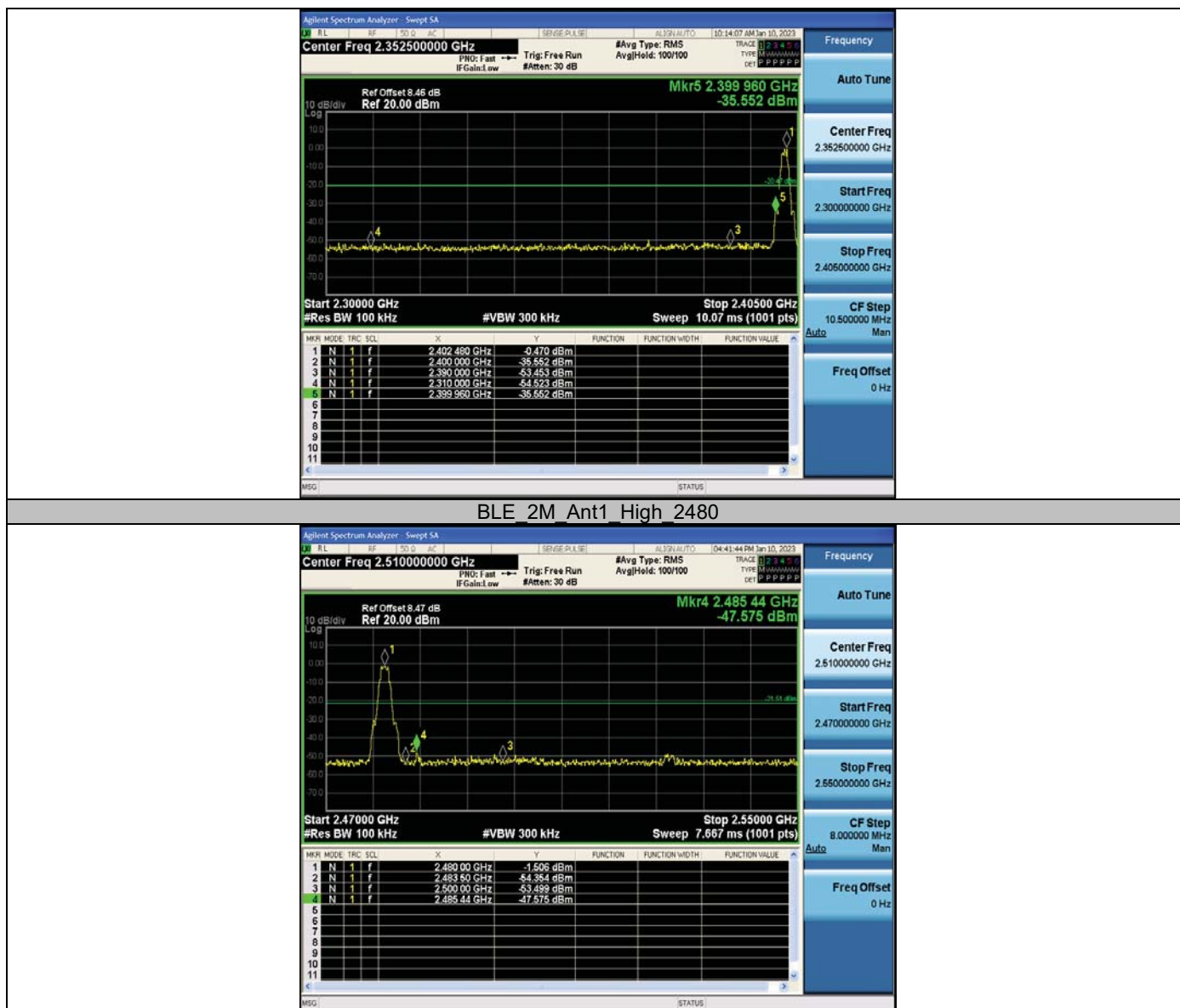
BLE 2M Ant1 2480



Appendix D: Band edge measurements

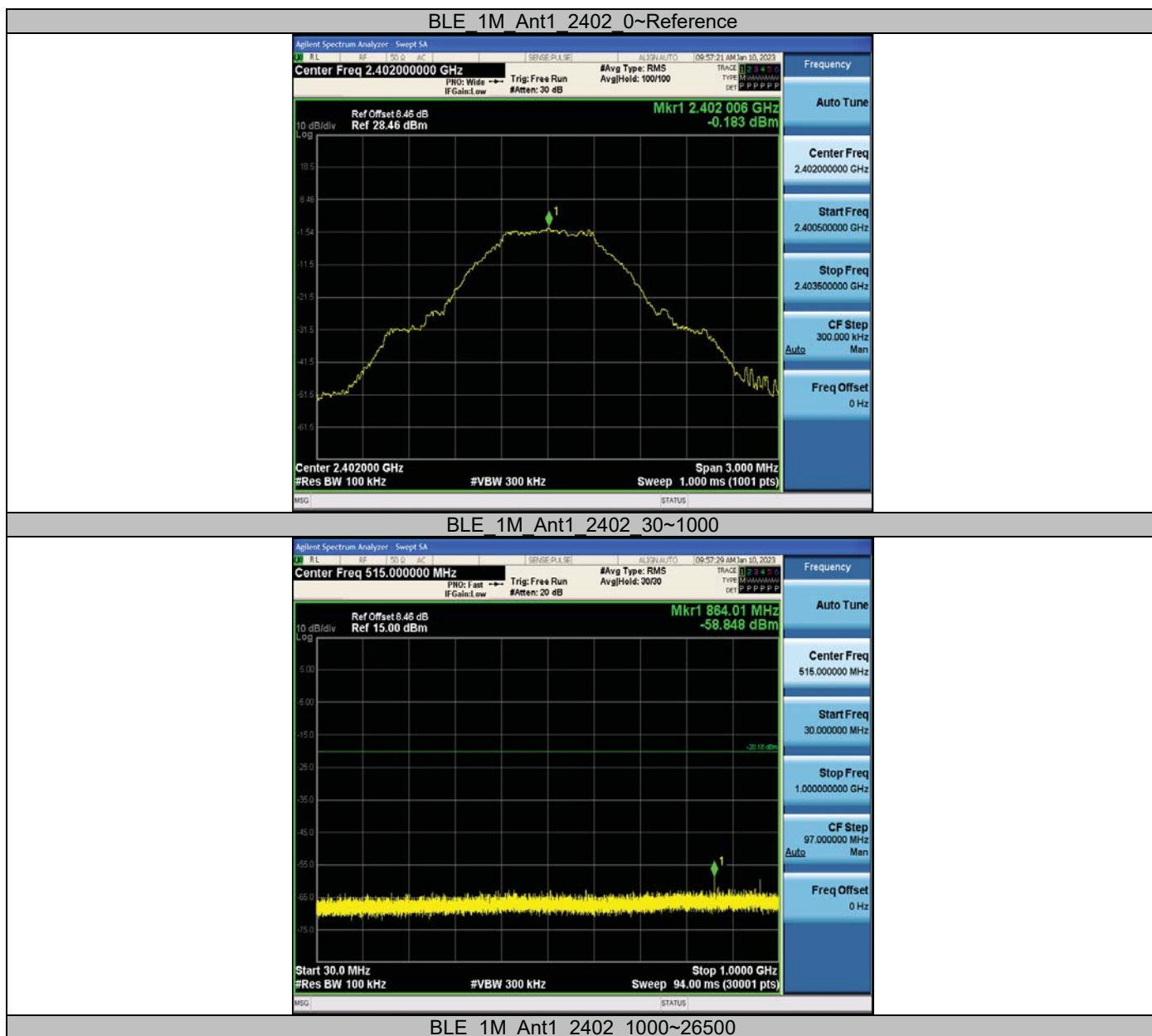
Test Graphs

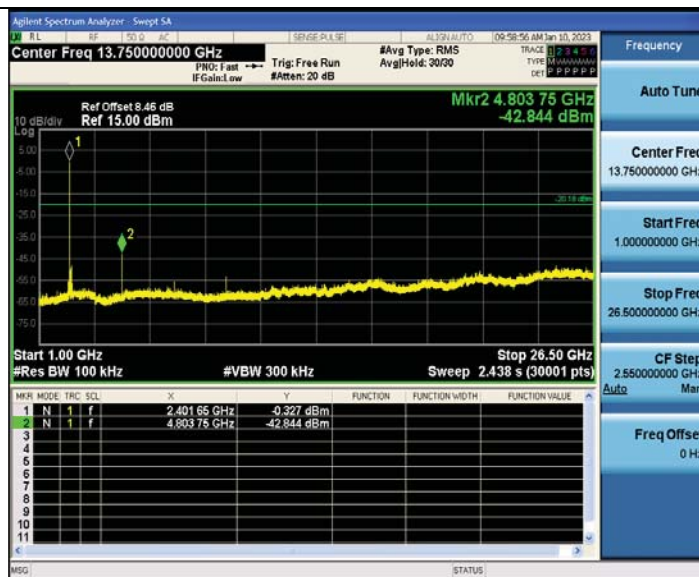




Appendix E: Conducted Spurious Emission

Test Graphs

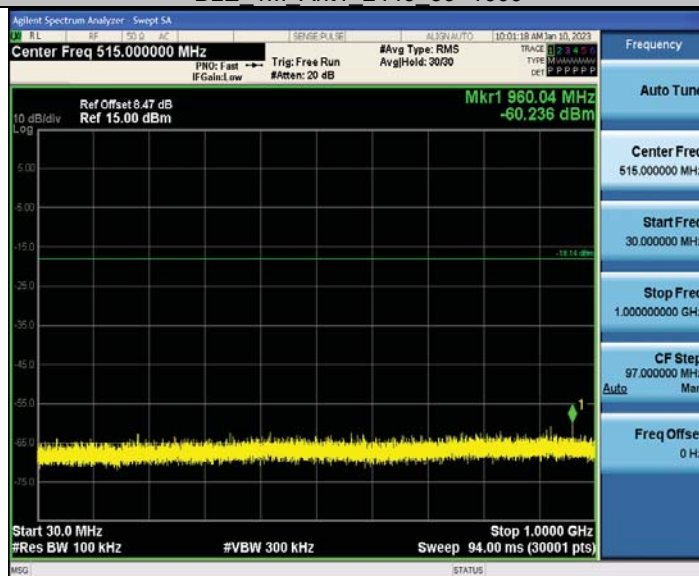




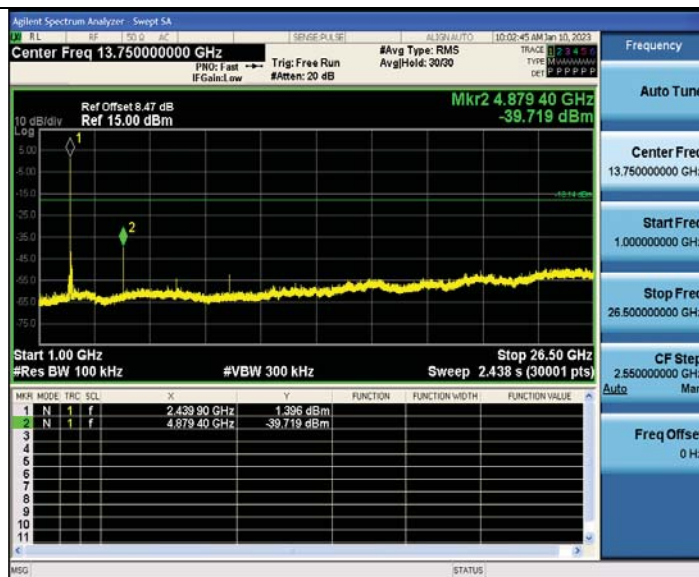
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



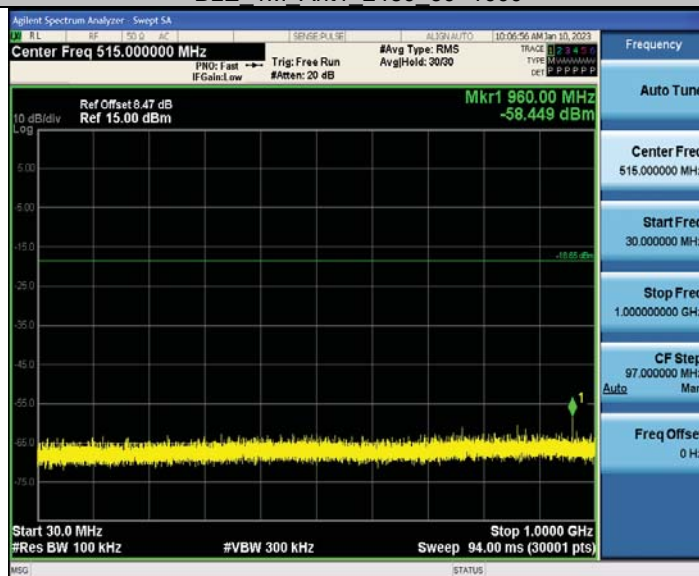
BLE_1M_Ant1_2440_1000~26500



BLE 1M Ant1 2480 0~Reference



BLE 1M Ant1 2480 30~1000



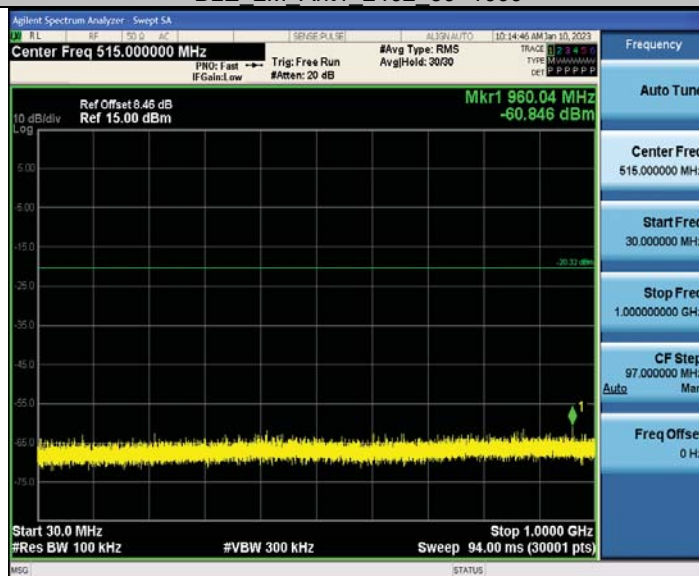
BLE 1M Ant1 2480 1000~26500



BLE 2M Ant1 2402 0~Reference



BLE 2M Ant1 2402 30~1000



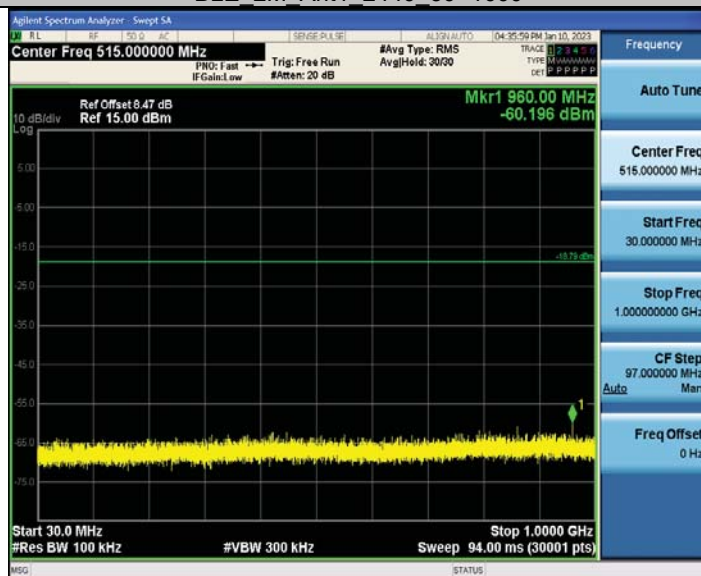
BLE 2M Ant1 2402 1000~26500



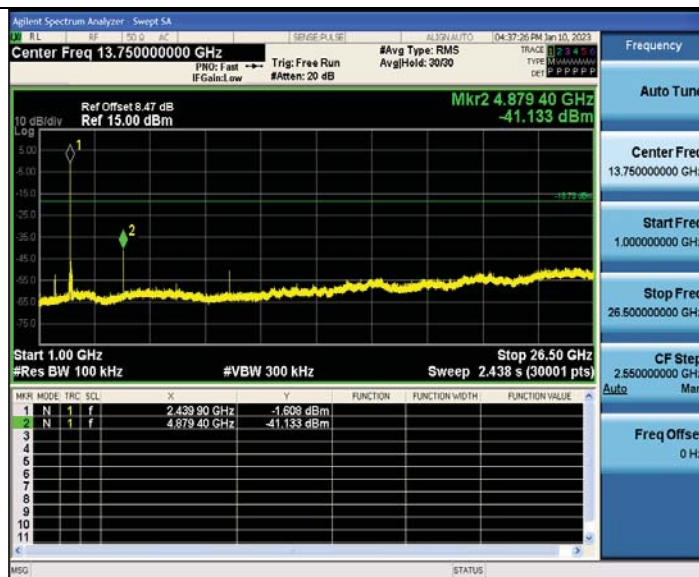
BLE 2M Ant1 2440 0~Reference



BLE 2M Ant1 2440 30~1000



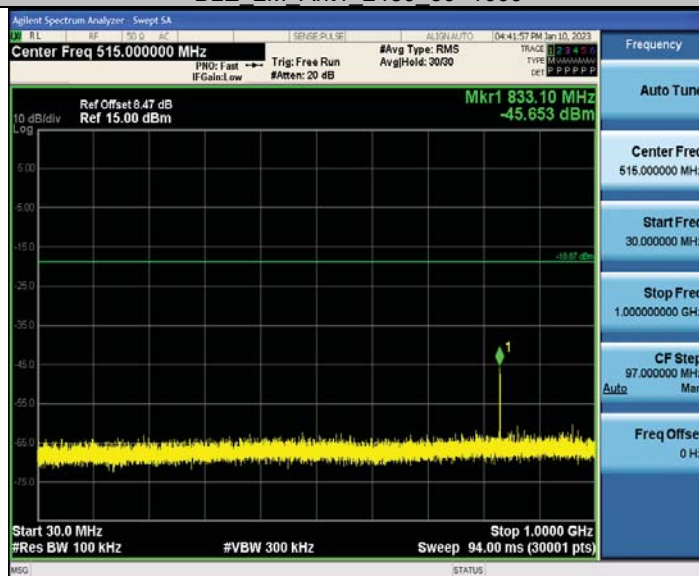
BLE 2M Ant1 2440 1000~26500



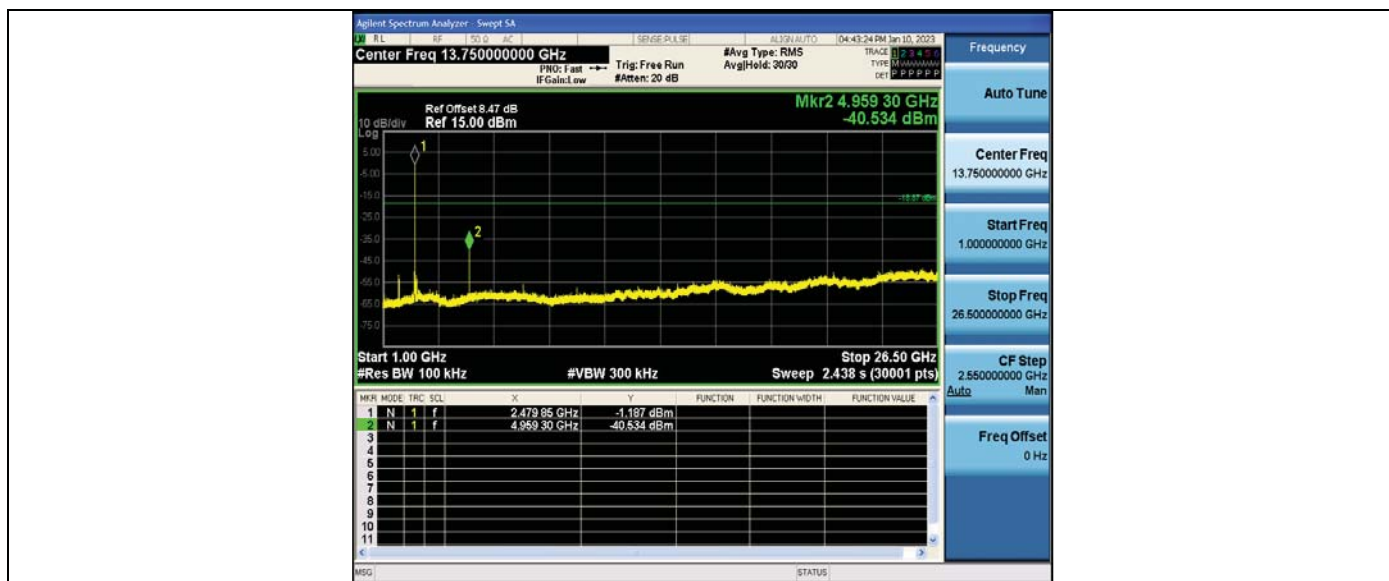
BLE 2M Ant1 2480 0~Reference



BLE 2M Ant1 2480 30~1000



BLE 2M Ant1 2480 1000~26500



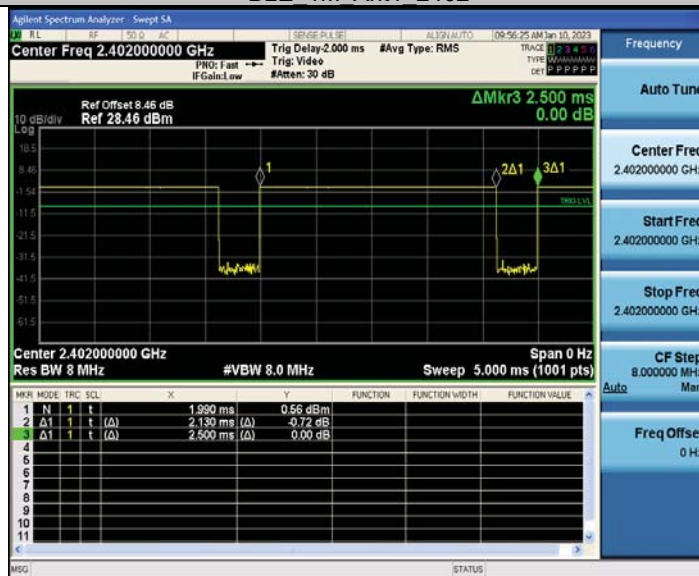
Appendix F: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.13	2.50	85.20	0.70
		2440	2.13	2.50	85.20	0.70
		2480	2.13	2.50	85.20	0.70
BLE_2M	Ant1	2402	1.08	2.50	43.20	3.65
		2440	1.08	2.50	43.20	3.65
		2480	1.08	2.50	43.20	3.65

Test Graphs

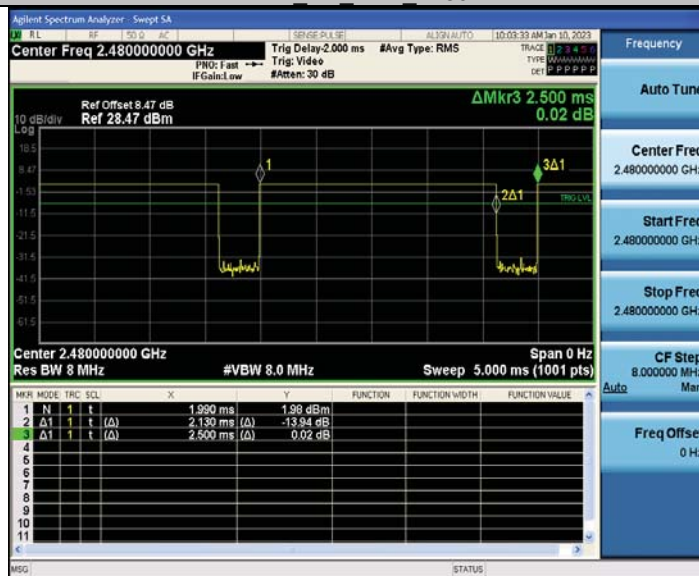
BLE 1M Ant1 2402



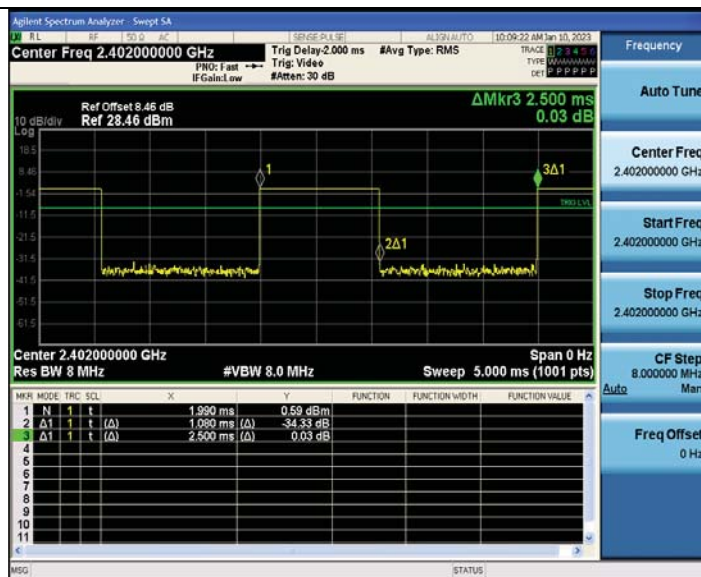
BLE 1M Ant1 2440



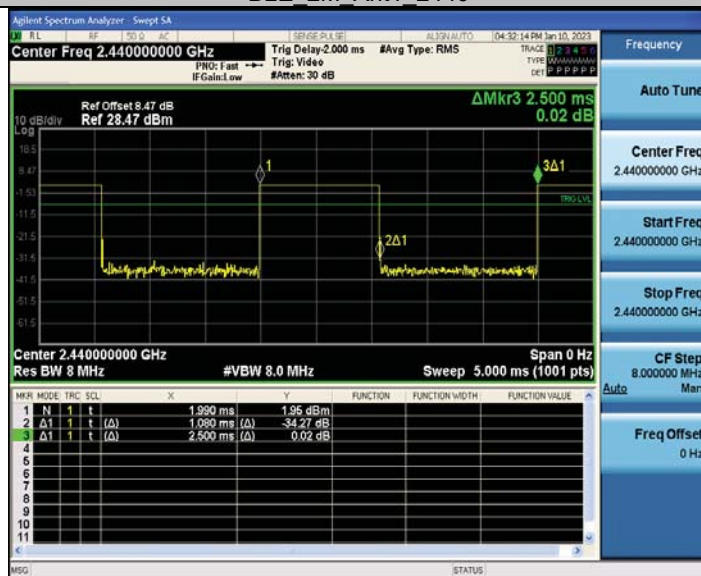
BLE 1M Ant1 2480



BLE 2M Ant1 2402



BLE 2M Ant1 2440



BLE 2M Ant1 2480



Photographs of the Test Setup

See the Appendix – Test Setup Photos.

Photographs of the EUT

See the Appendix - EUT Photos.

---End of Report---