

Test Report

- **Report No.:** MTi240521012-12E1
- Date of issue: 2024-12-11
- Applicant: LEXON
- Product name: RAY LIGHT
- Model(s): LH101
- FCC ID: 2ARD3-LH101

Shenzhen Microtest Co., Ltd. http://www.mtitest.cn

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Test Result Certification				
Applicant: LEXON				
Address:	125 avenue des Champs-Élysées 75008 Paris France			
Manufacturer:	LEXON			
Address:	125 avenue des Champs-Élysées 75008 Paris France			
Product description				
Product name:	RAY LIGHT			
Trademark:	LEXON			
Model name:	LH101			
Series Model(s):	N/A			
Standards:	47 CFR Part 15.247			
Test Method:	ANSI C63.10-2013 KDB 558074 D01 15.247 Meas Guidance v05r02			
Date of Test				
Date of test:	2024-06-26 to 2024-06-29			
Test result:	Pass			

Test Engineer	:	Monleen Deny
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Reviewed By	• •	Dowid. Cee
		(David Lee)
Approved By	• •	(cov chen
		(Leon Chen)



1 General Description

1.1 Description of the EUT

Product name:	RAY LIGHT		
Model name:	LH101		
Series Model(s):	N/A		
Model difference:	N/A		
Electrical rating:	Input: DC 5V 1A Lighting: 2W Battery: DC 3.7V 800mAh		
Accessories:	Cable: USB-C to USB-C cable 50cm		
Hardware version:	V2.0		
Software version:	V2.1		
Test sample(s) number:	MTi240521012-12S1001		
RF specification			
Bluetooth version:	V5.2		
Operating frequency range:	2402MHz to 2480MHz		
Channel number:	40		
Modulation type:	GFSK		
Antenna(s) type:	PCB Antenna		
Antenna(s) gain:	-0.58dBi		

1.2 Description of test modes

No.	Emission test modes
Mode1	TX-GFSK-1M

1.2.1 Operation channel list

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	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

Address: 101, No. 7, Zone 2, XinxingIndustrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China.Tel: (86-755) 88850135-1349Fax: (86-755) 88850136Web: http://www.mtitest.cnE-mail: office@51mti.com



Test Channel List

Lowest Channel (LCH)	Middle Channel (MCH)	Highest Channel (HCH)
(MHz)	(MHz)	(MHz)
2402	2440	2480

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

Test Software:

For power setting, refer to below table.

Test Software:	Lekit		
Mode	2402MHz	2440MHz	2480MHz
1M	1F	1F	1F



1.3 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15°C ~ 35°C
Humidity:	20% RH ~ 75% RH
Atmospheric pressure:	98 kPa ~ 101 kPa

1.4 Description of support units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Support equipment list						
Description	Model	Serial No.	Manufacturer			
MI CHARGE(18W)	MDY-08-EH	YJ2808215006999	MI			
Support cable list						
Description	Length (m)	From	То			
/	/	/	/			

1.5 Measurement uncertainty

Measurement	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	±3.1dB
Occupied channel bandwidth	±3 %
RF output power, conducted	±1 dB
Power Spectral Density, conducted	±1 dB
Unwanted Emissions, conducted	±1 dB
Radiated spurious emissions (above 1GHz)	±5.3dB
Radiated spurious emissions (9kHz~30MHz)	±4.3dB
Radiated spurious emissions (30MHz~1GHz)	±4.7dB
Temperature	±1 °C
Humidity	±5%

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





2 Summary of Test Result

No.	Item	Standard	Requirement	Result
1	Antenna requirement	47 CFR Part 15.247	47 CFR 15.203	Pass
2	Conducted Emission at AC power line	47 CFR Part 15.247	47 CFR 15.207(a)	Pass
3	Occupied Bandwidth	47 CFR Part 15.247	47 CFR 15.247(a)(2)	Pass
4	Maximum Conducted Output Power	47 CFR Part 15.247	47 CFR 15.247(b)(3)	Pass
5	Power Spectral Density	47 CFR Part 15.247	47 CFR 15.247(e)	Pass
6	RF conducted spurious emissions and band edge measurement	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass
7	Band edge emissions (Radiated)	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass
8	Radiated emissions (below 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass
9	Radiated emissions (above 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass



3 Test Facilities and accreditations

3.1 Test laboratory

Test laboratory:	Shenzhen Microtest Co., Ltd.					
Test site location:	101, No.7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinh 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					
IC Registration No.:	21760					
CABID:	CN0093					



4 List of test equipment

No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due			
	Conducted Emission at AC power line								
1	EMI Test Receiver	Rohde&schwarz	ESCI3	101368	2024-03-20	2025-03-19			
2	Artificial mains network	Schwarzbeck	NSLK 8127	183	2024-03-21	2025-03-20			
3	Artificial Mains Network	Rohde & Schwarz	ESH2-Z5	100263	2024-03-20	2025-03-19			
		Maximum Co	pied Bandwidth Inducted Output Spectral Density -restricted freque	/					
1	Wideband Radio Communication Tester	Rohde&schwarz	CMW500	149155	2024-03-20	2025-03-19			
2	ESG Series Analog Ssignal Generator	Agilent	E4421B	GB40051240	2024-03-21	2025-03-20			
3	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2024-03-21	2025-03-20			
4	Synthesized Sweeper	Agilent	83752A	3610A01957	2024-03-21	2025-03-20			
5	MXA Signal Analyzer	Agilent	N9020A	MY50143483	2024-03-21	2025-03-20			
6	RF Control Unit	Tonscend	JS0806-1	19D8060152	2024-03-21	2025-03-20			
7	Band Reject Filter Group	Tonscend	JS0806-F	19D8060160	2024-03-21	2025-03-20			
8	ESG Vector Signal Generator	Agilent	N5182A	MY50143762	2024-03-20	2025-03-19			
9	DC Power Supply	Agilent	E3632A	MY40027695	2024-03-21	2025-03-20			
		Band edge Emissions in frequ	emissions (Radi uency bands (ab						
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2024-03-20	2025-03-19			
2	Double Ridged Broadband Horn Antenna	schwarabeck	BBHA 9120 D	2278	2023-06-17	2025-06-16			
3	Amplifier	Agilent	8449B	3008A01120	2024-03-20	2025-03-19			
4	MXA signal analyzer	Agilent	N9020A	MY54440859	2024-03-21	2025-03-20			
5	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2024-03-21	2025-03-20			
6	Horn antenna	Schwarzbeck	BBHA 9170	00987	2023-06-17	2025-06-16			
7	Pre-amplifier	Space-Dtronics	EWLAN1840 G	210405001	2024-03-21	2025-03-20			
	Emissions in frequency bands (below 1GHz)								
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2024-03-20	2025-03-19			
2	TRILOG Broadband Antenna	schwarabeck	VULB 9163	9163-1338	2023-06-11	2025-06-10			
3	Active Loop Antenna	Schwarzbeck	FMZB 1519 B	00066	2024-03-23	2025-03-22			
4	Amplifier	Hewlett-Packard	8447F	3113A06184	2024-03-20	2025-03-19			



5 Evaluation Results (Evaluation)

5.1 Antenna requirement

Test Requirement:	Refer to 47 CFR Part 15.203, 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.

5.1.1 Conclusion:

The antenna of the EUT is permanently attached. The EUT complies with the requirement of FCC PART 15.203.

6 Radio Spectrum Matter Test Results (RF)

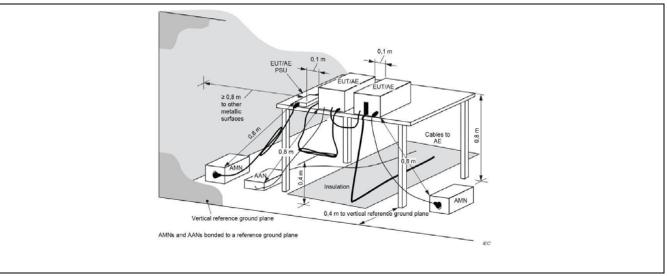
6.1 Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Exce section, for an intentional radiato public utility (AC) power line, the back onto the AC power line on a 150 kHz to 30 MHz, shall not exc measured using a 50 µH/50 ohm (LISN).	r that is designed to be radio frequency voltag any frequency or freque ceed the limits in the fo	e connected to the le that is conducted encies, within the b llowing table, as	d		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dBµV)				
		Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
	*Decreases with the logarithm of the frequency.					
Test Method:	ANSI C63.10-2013 section 6.2					
Procedure:	Refer to ANSI C63.10-2013 section 6.2, standard test method for ac power- line conducted emissions from unlicensed wireless devices					

6.1.1 E.U.T. Operation:

Operating Environment:						
Temperature:	25.9 °C		Humidity:	44 %	Atmospheric Pressure:	101 kPa
Pre test mode: N		Mode	e1			
Final test mode: Mode		e1				

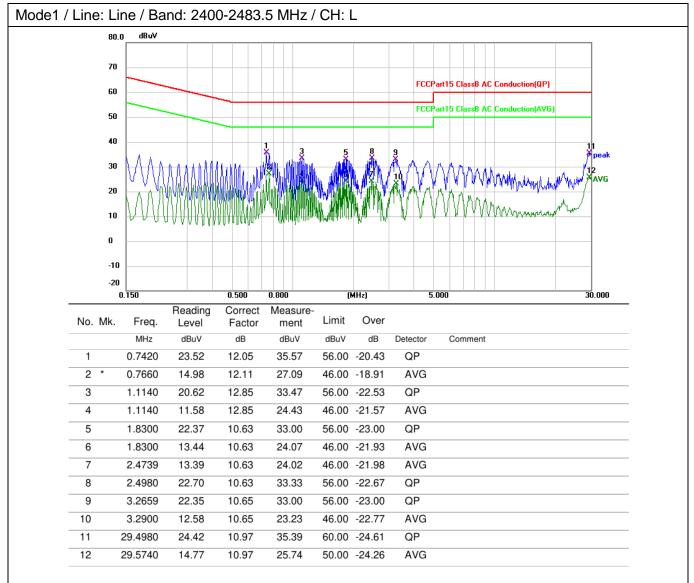
6.1.2 Test Setup Diagram:



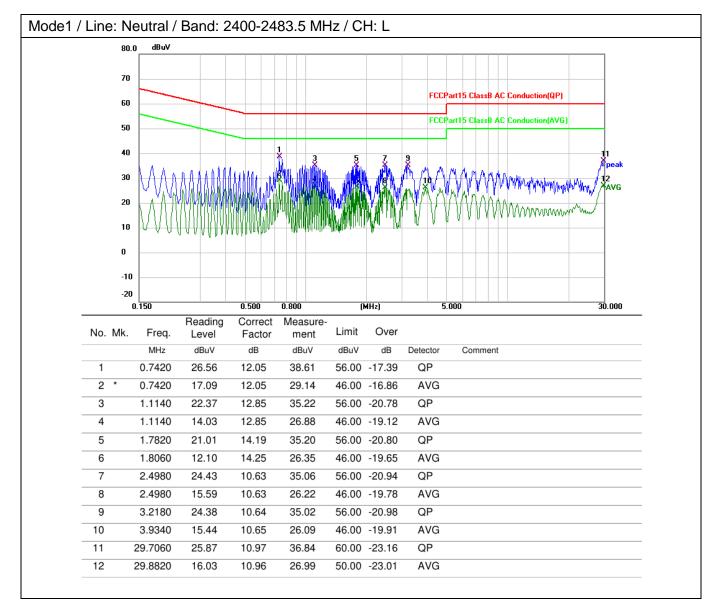




6.1.3 Test Data:









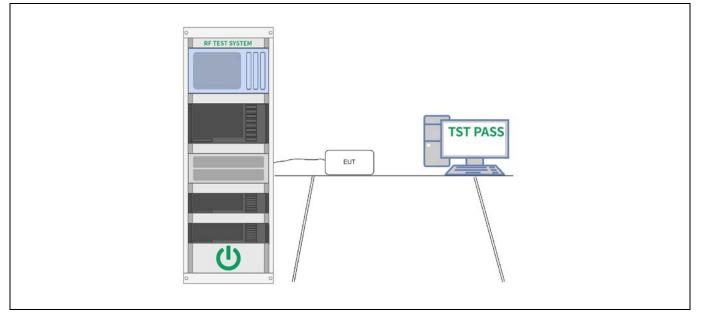
6.2 Occupied Bandwidth

Test Requirement:	47 CFR 15.247(a)(2)
Test Limit:	Refer to 47 CFR 15.247(a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Method:	ANSI C63.10-2013, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	 a) Set RBW = 100 kHz. b) Set the VBW >= [3 x RBW]. c) Detector = peak. d) Trace mode = max hold. e) Sweep = auto couple. f) Allow the trace to stabilize. g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.2.1 E.U.T. Operation:

Operating Envi	Operating Environment:						
Temperature:	25 °C		Humidity:	56 %	Atmospheric Pressure:	101 kPa	
Pre test mode:	Pre test mode: Mod		e1				
Final test mode: Mode		e1					

6.2.2 Test Setup Diagram:



6.2.3 Test Data:



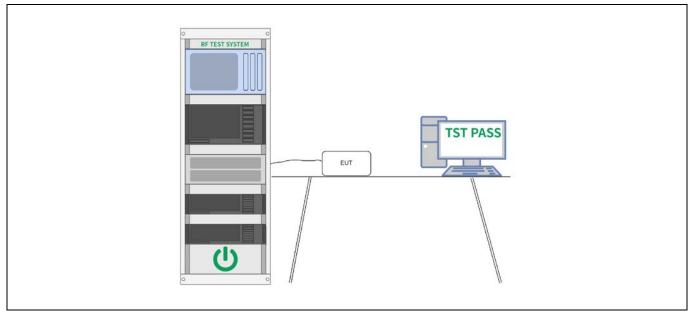
6.3 Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(3)
Test Limit:	Refer to 47 CFR 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Test Method:	ANSI C63.10-2013, section 11.9.1 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2013, section 11.9.1 Maximum peak conducted output power

6.3.1 E.U.T. Operation:

Operating Environment:						
Temperature:	25 °C		Humidity:	56 %	Atmospheric Pressure:	101 kPa
Pre test mode: M		Mode	e1			
Final test mode: Mode		e1				

6.3.2 Test Setup Diagram:



6.3.3 Test Data:



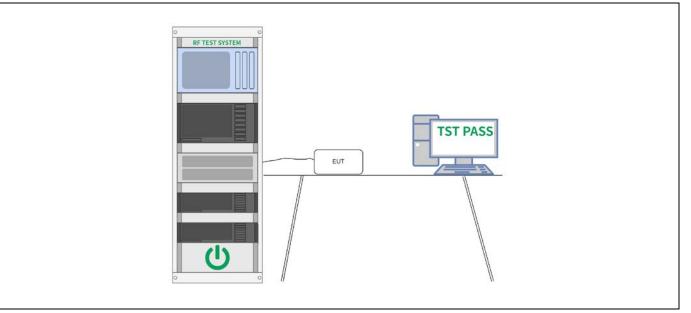
6.4 Power Spectral Density

Test Requirement:	47 CFR 15.247(e)
Test Limit:	Refer to 47 CFR 15.247(e), 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. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Test Method:	ANSI C63.10-2013, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2013, section 11.10, Maximum power spectral density level in the fundamental emission

6.4.1 E.U.T. Operation:

Operating Environment:						
Temperature:	25 °C		Humidity:	56 %	Atmospheric Pressure:	101 kPa
Pre test mode: Mod		Mode	e1			
Final test mode: Mode		e1				

6.4.2 Test Setup Diagram:



6.4.3 Test Data:



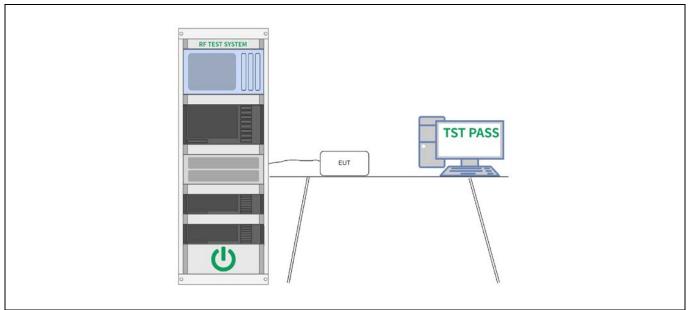
6.5 RF conducted spurious emissions and band edge measurement

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Test Limit:	Refer to 47 CFR 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.
Test Method:	ANSI C63.10-2013 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2013 Section 11.11.1, Section 11.11.2, Section 11.11.3

6.5.1 E.U.T. Operation:

Operating Envi	ironment					
Temperature:	25 °C		Humidity:	56 %	Atmospheric Pressure:	101 kPa
Pre test mode:		Mode	e1			
Final test mode	e:	Mode	e1			

6.5.2 Test Setup Diagram:



6.5.3 Test Data:



6.6 Band edge emissions (Radiated)

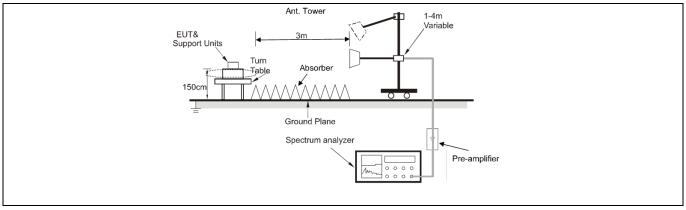
Test Requirement:	restricted bands, as de	7(d), In addition, radiated em fined in § 15.205(a), must als s specified in § 15.209(a)(se	so comply with the				
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measuremen t distance (meters)				
	0.009-0.490	2400/F(kHz)	300				
	0.490-1.705	24000/F(kHz)	30				
	1.705-30.0	30	30				
	30-88	100 **	3				
	88-216	150 **	3				
	216-960	200 **	3				
	Above 960	500	3				
	intentional radiators op frequency bands 54-72 However, operation wi sections of this part, e. In the emission table a The emission limits sh employing a CISPR qu kHz, 110–490 kHz and	in paragraph (g), fundamenta perating under this section sh 2 MHz, 76-88 MHz, 174-216 thin these frequency bands is g., §§ 15.231 and 15.241. bove, the tighter limit applies own in the above table are ba asi-peak detector except for above 1000 MHz. Radiated on measurements employin	all not be located in the MHz or 470-806 MHz. s permitted under other at the band edges. ased on measurements the frequency bands 9–90 emission limits in these				
Test Method:	ANSI C63.10-2013 section 6.10 KDB 558074 D01 15.247 Meas Guidance v05r02						
Procedure:	ANSI C63.10-2013 see	ction 6.10.5.2					

6.6.1 E.U.T. Operation:

onment:				
27.5 °C	Humidity:	66 %	Atmospheric Pressure:	100 kPa
Pre test mode: Mo				
Final test mode: Mo				
	27.5 °C Mo Mo	27.5 °C Humidity: Mode1 Mode1	27.5 °C Humidity: 66 % Mode1 Mode1	27.5 °C Humidity: 66 % Atmospheric Pressure: Mode1

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

6.6.2 Test Setup Diagram:





6.6.3 Test Data:

Mode1 /	Polariza	ation:	Horizonta	al / Band: 24	400-2483.5	MHz / CH: I	_			
	No. N	٨k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	-
	1	2	310.000	52.71	-12.92	39.79	74.00	-34.21	peak	-
	2	2	310.000	42.63	-12.92	29.71	54.00	-24.29	AVG	-
	3	2	390.000	56.29	-12.49	43.80	74.00	-30.20	peak	-
	4 '	* 2	390.000	43.15	-12.49	30.66	54.00	-23.34	AVG	-

Mode1 /	Polari	zatio	n: Vertical /	Band: 2400)-2483.5 M	Hz / CH: L			
	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
	1		2310.000	52.66	-12.92	39.74	74.00	-34.26	peak
	2		2310.000	42.80	-12.92	29.88	54.00	-24.12	AVG
	3		2390.000	57.34	-12.49	44.85	74.00	-29.15	peak
	4	*	2390.000	43.25	-12.49	30.76	54.00	-23.24	AVG



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Mode1 /	Polari	zatio	n: Horizonta	al / Band: 24	400-2483.5	MHz / CH: I	H		
	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
	1		2483.500	70.03	-12.50	57.53	74.00	-16.47	peak
-	2	*	2483.500	52.78	-12.50	40.28	54.00	-13.72	AVG
	3		2500.000	55.01	-12.41	42.60	74.00	-31.40	peak
	4		2500.000	43.14	-12.41	30.73	54.00	-23.27	AVG

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2483.500	70.67	-12.50	58.17	74.00	-15.83	peak
2	*	2483.500	53.66	-12.50	41.16	54.00	-12.84	AVG
3		2500.000	56.13	-12.41	43.72	74.00	-30.28	peak
4		2500.000	43.23	-12.41	30.82	54.00	-23.18	AVG



6.7 Radiated emissions (below 1GHz)

Test Requirement:	restricted bands, as de	7(d), In addition, radiated em fined in § 15.205(a), must als s specified in § 15.209(a)(se	so comply with the				
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measuremen t 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				
	intentional radiators op frequency bands 54-72 However, operation wit sections of this part, e. In the emission table a The emission limits sh employing a CISPR qu kHz, 110–490 kHz and	in paragraph (g), fundamenta perating under this section sh 2 MHz, 76-88 MHz, 174-216 thin these frequency bands is g., §§ 15.231 and 15.241. bove, the tighter limit applies own in the above table are ba lasi-peak detector except for above 1000 MHz. Radiated on measurements employin	all not be located in the MHz or 470-806 MHz. s permitted under other at the band edges. ased on measurements the frequency bands 9–90 emission limits in these				
Test Method:	ANSI C63.10-2013 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02						
Procedure:	ANSI C63.10-2013 sec	ction 6.6.4					

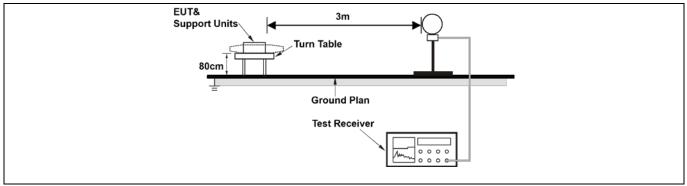
6.7.1 E.U.T. Operation:

Operating Envi	ronment:					
Temperature: 23.29 °C		C	Humidity:	45.27 %	Atmospheric Pressure:	100 kPa
Pre test mode: M		Mode	e1			
Final test mode	e:	Mode	e1			
Note:						

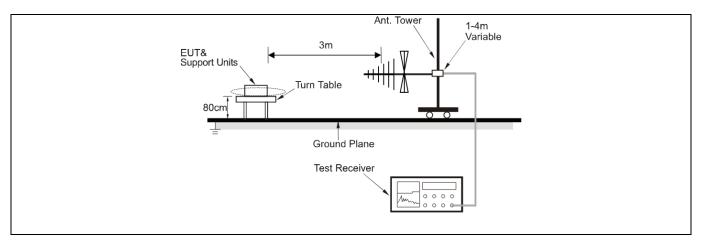
The amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported.

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.

6.7.2 Test Setup Diagram:

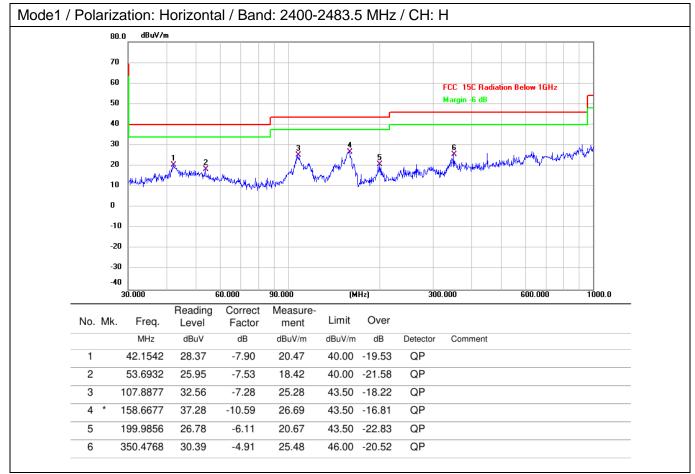




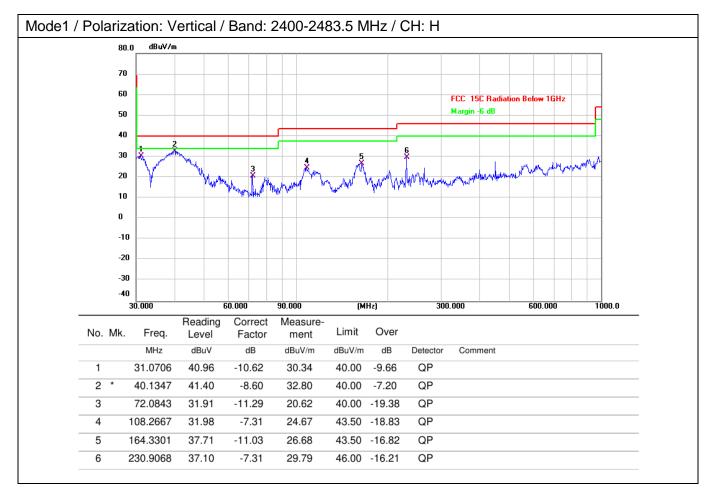




6.7.3 Test Data:









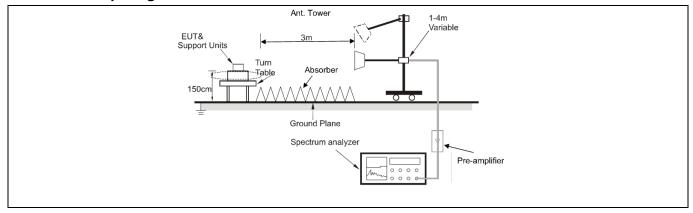
6.8 Radiated emissions (above 1GHz)

Test Requirement:	-	nissions which fall in the rest comply with the radiated em 5(c)).`	-	
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measuremen t 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	
	intentional radiators op frequency bands 54-72 However, operation wit sections of this part, e. In the emission table a The emission limits she employing a CISPR qu kHz, 110–490 kHz and	in paragraph (g), fundamenta perating under this section sh 2 MHz, 76-88 MHz, 174-216 thin these frequency bands is g., §§ 15.231 and 15.241. bove, the tighter limit applies own in the above table are ba asi-peak detector except for above 1000 MHz. Radiated on measurements employin	all not be located in the MHz or 470-806 MHz. s permitted under other as at the band edges. ased on measurements the frequency bands 9–9 emission limits in these	90
Test Method:	ANSI C63.10-2013 sec KDB 558074 D01 15.2	ction 6.6.4 47 Meas Guidance v05r02		
Procedure:	ANSI C63.10-2013 sec	ction 6.6.4		

6.8.1 E.U.T. Operation:

Operating Envi	ironment:							
Temperature:	25.14 °(C	Humidity:	47.26 %	Atmospheric Pressure:	100 kPa		
Pre test mode:		Mode	e1					
Final test mode	e:	Mode1						
Note: Test freq	uency are	e from	1GHz to 25	GHz, the amp	litude of spurious emissior	ns 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.								

6.8.2 Test Setup Diagram:





6.8.3 Test Data:

Mode1 /	Polari	zatio	n: Horizonta	al / Band: 24	400-2483.5	6 MHz / CH: I	_			
	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	
	1		4804.000	59.96	-7.70	52.26	74.00	-21.74	peak	
	2	*	4804.000	55.94	-7.70	48.24	54.00	-5.76	AVG	
	3		7206.000	46.28	0.84	47.12	74.00	-26.88	peak	
	4		7206.000	41.31	0.84	42.15	54.00	-11.85	AVG	
	5		9608.000	48.97	1.81	50.78	74.00	-23.22	peak	
	6		9608.000	44.46	1.81	46.27	54.00	-7.73	AVG	

No. N	Лk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4804.000	59.10	-7.70	51.40	74.00	-22.60	peak
2 *	r	4804.000	55.85	-7.70	48.15	54.00	-5.85	AVG
3		7206.000	50.13	0.84	50.97	74.00	-23.03	peak
4		7206.000	45.41	0.84	46.25	54.00	-7.75	AVG
5		9608.000	48.32	1.81	50.13	74.00	-23.87	peak
6		9608.000	43.97	1.81	45.78	54.00	-8.22	AVG



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Mode1 /	Polari	zatio	n: Horizonta	al / Band: 24	400-2483.5	MHz / CH: N	N		
	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
-			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
	1		4880.000	65.39	-7.84	57.55	74.00	-16.45	peak
-	2	*	4880.000	58.01	-7.84	50.17	54.00	-3.83	AVG
	3		7320.000	50.78	0.60	51.38	74.00	-22.62	peak
	4		7320.000	44.72	0.60	45.32	54.00	-8.68	AVG
	5		9760.000	46.99	2.60	49.59	74.00	-24.41	peak
	6		9760.000	43.52	2.60	46.12	54.00	-7.88	AVG

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4880.000	56.90	-7.84	49.06	74.00	-24.94	peak
2		4880.000	53.15	-7.84	45.31	54.00	-8.69	AVG
3		7320.000	51.71	0.60	52.31	74.00	-21.69	peak
4	*	7320.000	45.63	0.60	46.23	54.00	-7.77	AVG
5		9760.000	47.82	2.60	50.42	74.00	-23.58	peak
6		9760.000	42.59	2.60	45.19	54.00	-8.81	AVG



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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4960.000	64.02	-7.73	56.29	74.00	-17.71	peak
2		4960.000	57.87	-7.73	50.14	54.00	-3.86	AVG
3		7440.000	53.48	0.78	54.26	74.00	-19.74	peak
4	*	7440.000	49.54	0.78	50.32	54.00	-3.68	AVG
5		9920.000	47.94	2.47	50.41	74.00	-23.59	peak
6		9920.000	43.78	2.47	46.25	54.00	-7.75	AVG

N	o. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
	1	4960.000	58.18	-7.73	50.45	74.00	-23.55	peak
	2	4960.000	52.94	-7.73	45.21	54.00	-8.79	AVG
	3	7440.000	54.36	0.78	55.14	74.00	-18.86	peak
	4 *	7440.000	49.48	0.78	50.26	54.00	-3.74	AVG
	5	9920.000	47.66	2.47	50.13	74.00	-23.87	peak
	6	9920.000	43.81	2.47	46.28	54.00	-7.72	AVG



Photographs of the test setup

Refer to Appendix - Test Setup Photos



Photographs of the EUT

Refer to Appendix - EUT Photos

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Appendix

Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	Limit [MHz]	Verdict
BLE_1M		2402	0.632	0.5	PASS
	Ant1	2440	0.640	0.5	PASS
		2480	0.660	0.5	PASS



Test Graphs





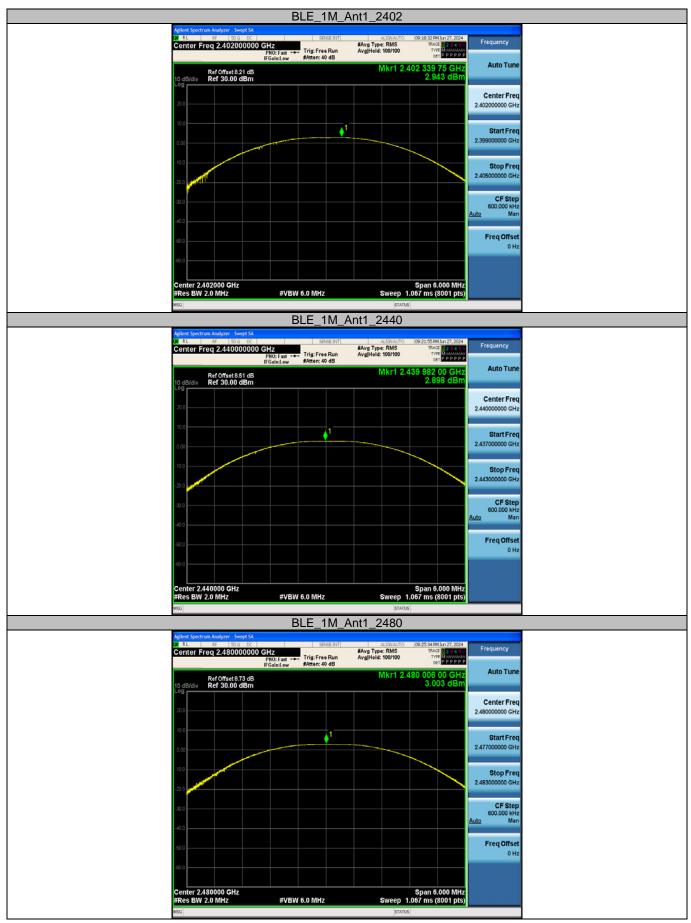
Appendix B: Maximum conducted output power

Test Result-Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Limit [dBm]	Verdict
BLE_1M		2402	2.94	≤30	PASS
	Ant1	2440	2.90	≤30	PASS
		2480	3.00	≤30	PASS



Test Graphs





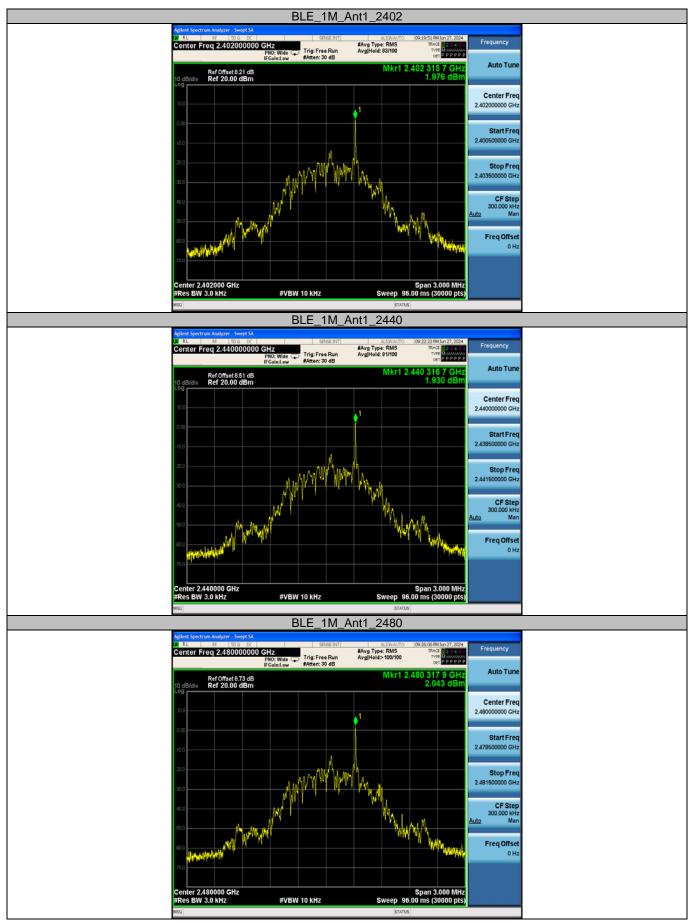
Appendix C: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
		2402	1.98	≤8.00	PASS
BLE_1M	Ant1	2440	1.93	≤8.00	PASS
—		2480	2.04	≤8.00	PASS



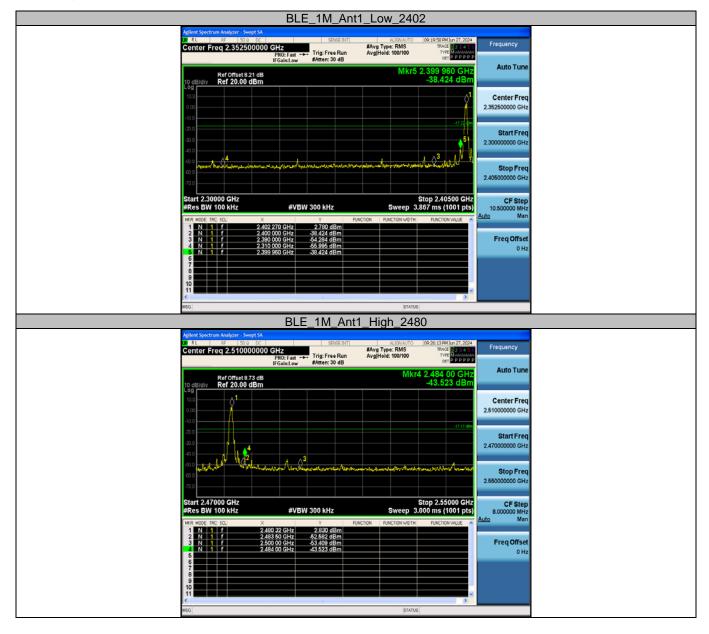
Test Graphs





Appendix D: Band edge measurements

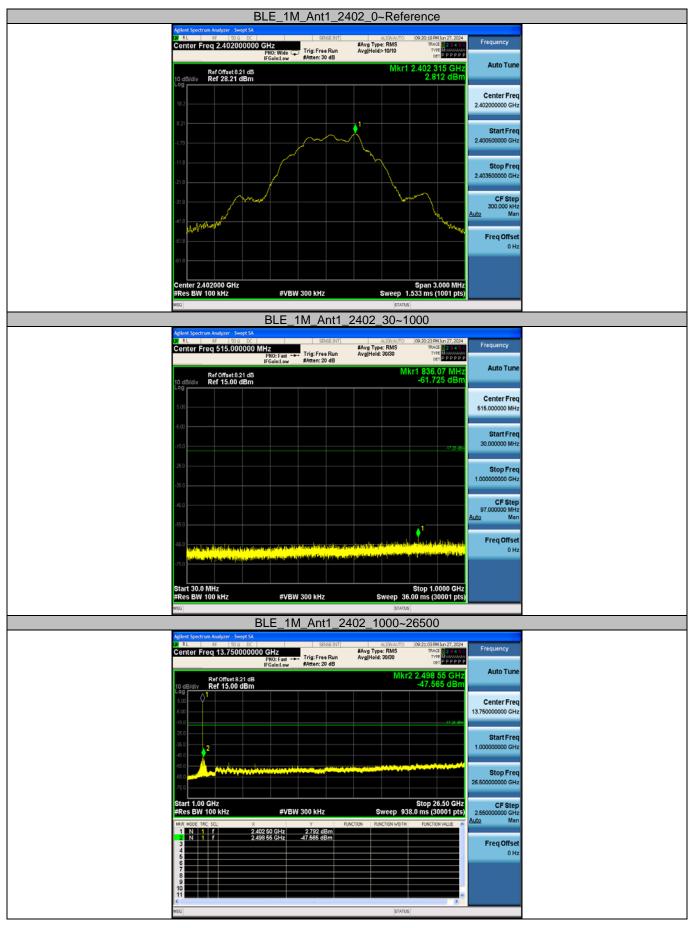
Test Graphs





Appendix E: Conducted Spurious Emission

Test Graphs

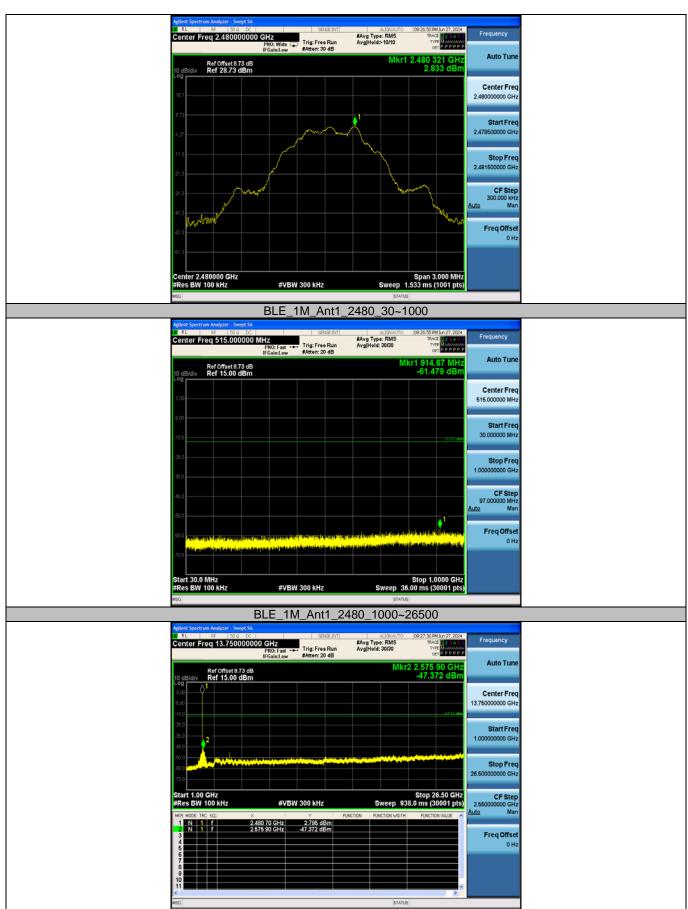


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Appendix F: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
		2402	0.42	0.64	65.63	1.83
BLE_1M	Ant1	2440	0.42	0.63	66.67	1.76
		2480	0.42	0.62	67.74	1.69



Test Graphs



----End of Report----