

Test Report

Report No.: MTi240910008-07E1

Date of issue: 2025-01-02

Applicant: ALOGIC Corporation Pty Ltd.

Product name: REEVUS INSULATED STAINLESS STEEL BOTTLE

Model(s): JALMBBK, JALMBCR, JALMBXX (XX:

represent colour)

FCC ID: 2ATCA-JALMB

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



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Table of contents



Report No.: MTi240910008-07E1

1	Gen	eral Description	5
	1.1 1.2 1.3 1.4 1.5	Description of the EUT Description of test modes Environmental Conditions Description of support units Measurement uncertainty	5 7 7
2	Sum	nmary of Test Result	8
3	Test	Facilities and accreditations	9
	3.1	Test laboratory	9
4	List	of test equipment	10
5	Eval	uation Results (Evaluation)	11
	5.1	Antenna requirement	11
6	Radi	io Spectrum Matter Test Results (RF)	12
	6.1 6.2 6.3 6.4 6.5 6.6 6.7 6.8	Conducted Emission at AC power line 6dB Bandwidth Maximum Conducted Output Power Power Spectral Density RF conducted spurious emissions and band edge measurement Band edge emissions (Radiated) Radiated emissions (below 1GHz) Radiated emissions (above 1GHz)	
Pho	otogr	aphs of the test setup	30
Pho	otogr	aphs of the EUT	31
Apı	pendi	ix A: DTS Bandwidth	32
Apı	pendi	ix B: Maximum conducted output power	35
Αp	pendi	ix C: Maximum power spectral density	38
		ix D: Band edge measurements	
		ix E: Conducted Spurious Emission	
		ix E: Duty Cyclo	40



Test Result Certification Applicant: ALOGIC Corporation Pty Ltd. Address: Level 40, 140 William Street, Melbourne VIC, 3000 Australia Manufacturer: ALOGIC Corporation Pty Ltd. Address: Level 40, 140 William Street, Melbourne VIC, 3000 Australia **Product description** REEVUS INSULATED STAINLESS STEEL BOTTLE Product name: Trademark: Journey, JR-NY, JRNY Model name: **JALMBBK** Series Model(s): JALMBLG, JALMBOR, JALMBXX (XX: represent colour) Standards: 47 CFR Part 15.247 ANSI C63.10-2013 Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 **Date of Test** 2024-12-07 to 2024-12-26 Date of test: Test result: **Pass**

Test Engineer	:	Modern Tong
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Reviewed By	•••	David. Cee
		(David Lee)
Approved By	•••	leon chen
		(Leon Chen)



1 General Description

1.1 Description of the EUT

Product name:	REEVUS INSULATED STAINLESS STEEL BOTTLE
Model name:	JALMBBK
Series Model(s):	JALMBLG, JALMBOR, JALMBXX (XX: represent colour)
Model difference:	All the models are the same circuit and module, except the model name and color.
Electrical rating:	Wireless Charging input: 2.5W Battery: DC 3.7V 70mAh
Accessories:	N/A
Hardware version:	MF57-V03
Software version:	1.7.0
Test sample(s) number:	MTi240910008-07S1001
RF specification	
Bluetooth version:	V5.2
Operating frequency range:	2402MHz to 2480MHz
Channel number:	40
Modulation type:	GFSK
Antenna(s) type:	Ceramic Antenna
Antenna(s) gain:	1.9dBi

1.2 Description of test modes

No.	Emission test modes
Mode1	TX-GFSK-1M
Mode2	TX-GFSK-2M

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

Page **6** of **51** Report No.: MTi240910008-07E1

9 2420 19 2440 29 2460 39 2480

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	3F	3F	3F	
2M	3F	3F	3F	



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

Support equipment list							
Description Model		Serial No.	Manufacturer				
HUAWEI CHARGE	W-050200C02	/	HUAWEI				
Wireless Charger W1		/	GADMEI				
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	6dB 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, 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
IC Registration No.:	21760
CABID:	CN0093



4 List of test equipment

No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due	
	, ,	Conducted En	nission at AC po	wer 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	
		6dl Maximum Co	B Bandwidth Inducted Output Spectral Density	1			
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 frequency	emissions (Radiuency 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.
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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)

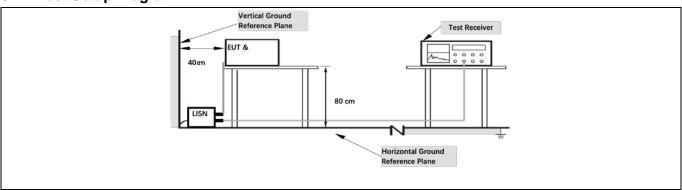
6.1 Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 µH/50 ohms line impedance stabilization network (LISN).						
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:

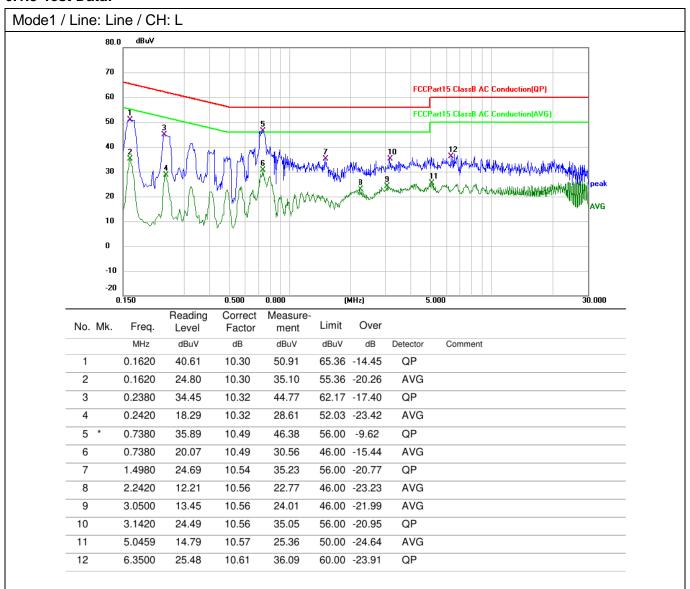
Operating Envi	Operating Environment:							
Temperature:	22.5 °C		Humidity:	36 %	Atmospheric Pressure:	101 kPa		
Pre test mode: M			e1, Mode2					
Final tast mode.				re-test mode w ded in the repo	ere tested, only the data	of the worst mode		

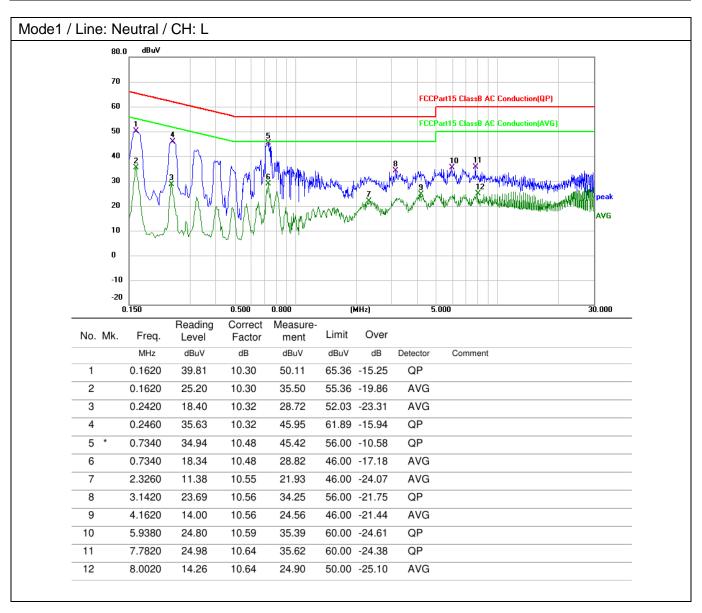
6.1.2 Test Setup Diagram:





6.1.3 Test Data:







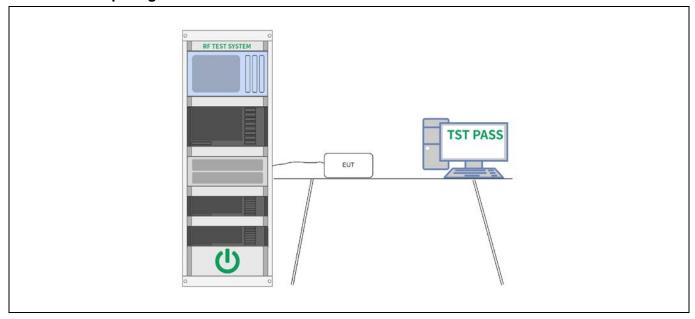
6.2 6dB Bandwidth

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 Environment:						
Temperature:	23.5 °C		Humidity:	40.2 %	Atmospheric Pressure:	101 kPa
Pre test mode: Mo		Mode	e1, Mode2			
Final test mode: Mo		Mode	e1, Mode2	_		

6.2.2 Test Setup Diagram:



6.2.3 Test Data:



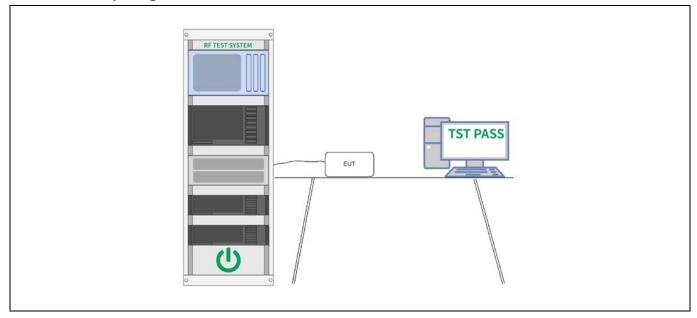
6.3 Maximum Conducted Output Power

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:	23.5 °C		Humidity:	40.2 %	Atmospheric Pressure:	101 kPa	
Pre test mode: Mo		Mode	e1, Mode2				
Final test mode: Mo		Mode	e1, Mode2				

6.3.2 Test Setup Diagram:



6.3.3 Test Data:



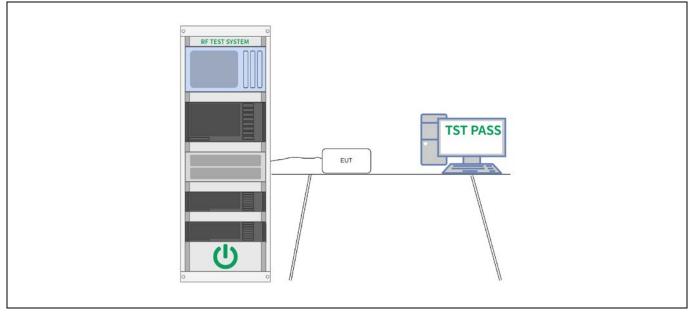
6.4 Power Spectral Density

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:	23.5 °C		Humidity:	40.2 %	Atmospheric Pressure:	101 kPa
Pre test mode: Mod		Mode	e1, Mode2			
Final test mode: Mode		e1, Mode2				

6.4.2 Test Setup Diagram:



6.4.3 Test Data:



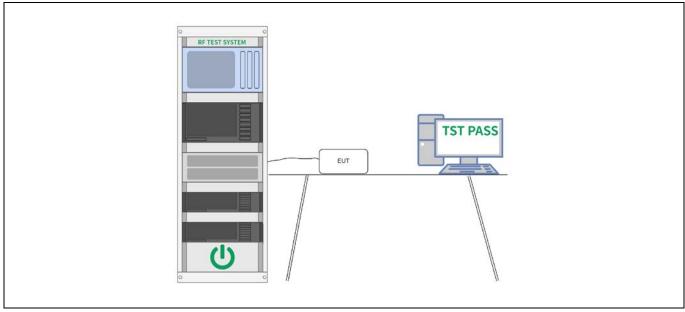
6.5 RF conducted spurious emissions and band edge measurement

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	ronment:					
Temperature:	23.5 °C		Humidity:	40.2 %	Atmospheric Pressure:	101 kPa
Pre test mode:		Mode	e1, Mode2			
Final test mode	e:	Mode	e1, Mode2			

6.5.2 Test Setup Diagram:



6.5.3 Test Data:



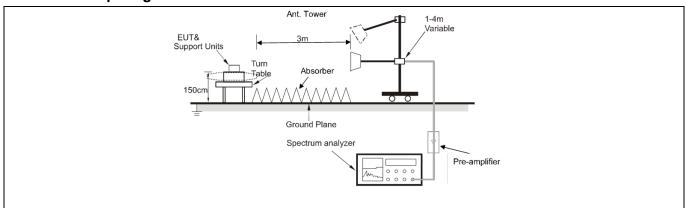
6.6 Band edge emissions (Radiated)

Test Requirement:	restricted bands, as de	7(d), In addition, radiated emfined in § 15.205(a), must als 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 with 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), fundamental perating under this section show that, 76-88 MHz, 174-216 within these frequency bands is g., §§ 15.231 and 15.241. bove, the tighter limit applies own in the above table are basi-peak detector except for above 1000 MHz. Radiated on measurements employing	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 sec KDB 558074 D01 15.2	ction 6.10 47 Meas Guidance v05r02	
Procedure:	ANSI C63.10-2013 sed	ction 6.10.5.2	

6.6.1 E.U.T. Operation:

Operating Envi	ronment:						
Temperature:	26 °C	Humidity: 54 % Atmospheric Pressure: 101 kPa					
Pre test mode:		Mode1, Mode2					
Final test mode	e:			re-test mode w ded in the repo	ere tested, only the data	of the worst mode	
Note: The amplitude reported.	of spurio	us em	issions whic	ch are attenuate	ed more than 20 dB below	the limits are not	

6.6.2 Test Setup Diagram:





6.6.3 Test Data:

Mode1 /	Polariza	ation	: Horizonta	al / CH: L					
	No. I	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
	1	2	2310.000	49.23	-4.83	44.40	74.00	-29.60	peak
	2	2	2310.000	37.93	-4.83	33.10	54.00	-20.90	AVG
	3	2	2390.000	50.18	-4.31	45.87	74.00	-28.13	peak
	4	* 2	2390.000	38.06	-4.31	33.75	54.00	-20.25	AVG

No	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2310.000	47.87	-4.83	43.04	74.00	-30.96	peak
2		2310.000	37.74	-4.83	32.91	54.00	-21.09	AVG
3		2390.000	47.83	-4.31	43.52	74.00	-30.48	peak
4	*	2390.000	37.77	-4.31	33.46	54.00	-20.54	AVG



Mode1 / Polarization: Horizontal / CH: H Reading Correct Measure-Limit Over No. Mk. Freq. Level Factor ment MHz dBuV dB dBuV/m dBuV/m dΒ Detector 2483.500 60.09 -4.21 55.88 74.00 -18.12 1 peak 2 2483.500 44.59 -4.2140.38 54.00 -13.62 AVG 74.00 -25.87 3 2500.000 52.23 -4.1048.13 peak 4 2500.000 38.34 -4.1034.24 54.00 -19.76 AVG

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2483.500	54.43	-4.21	50.22	74.00	-23.78	peak
2	*	2483.500	40.31	-4.21	36.10	54.00	-17.90	AVG
3		2500.000	48.47	-4.10	44.37	74.00	-29.63	peak
4		2500.000	38.09	-4.10	33.99	54.00	-20.01	AVG



6.7 Radiated emissions (below 1GHz)

Test Requirement:	restricted bands, as de	7(d), In addition, radiated enfined in § 15.205(a), must als 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 with 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), fundamental perating under this section shows the perating under this section shows the perating under this section shows the peration of th	all not be located in the MHz or 470-806 MHz. s permitted under other s at the band edges. ased on measurements the frequency bands 9–90 emission limits in these
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 sed	ction 6.6.4	

6.7.1 E.U.T. Operation:

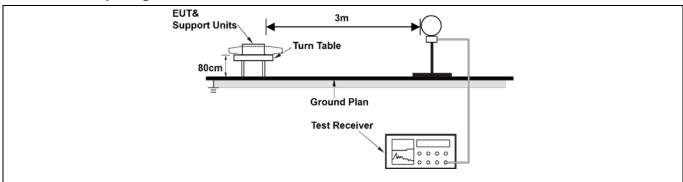
Temperature: 26 °C Humidity: 54 % Atmospheric Pressure: 101 kPa Pre test mode: Mode1, Mode2 All of the listed pre-test mode were tested, only the data of the worst mode.	Operating Envi	ronment:				
,	Temperature:	26 °C	Humidit	y: 54 %	Atmospheric Pressure:	101 kPa
All of the listed pre-test mode were tested, only the data of the worst mod	Pre test mode:		Mode1, Mode	2		
Final test mode: (Mode1) is recorded in the report	Final test mode):		•	•	of the worst mode

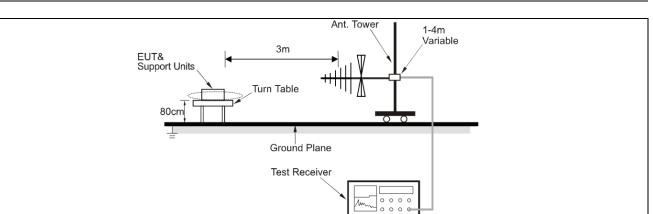
Note:

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.

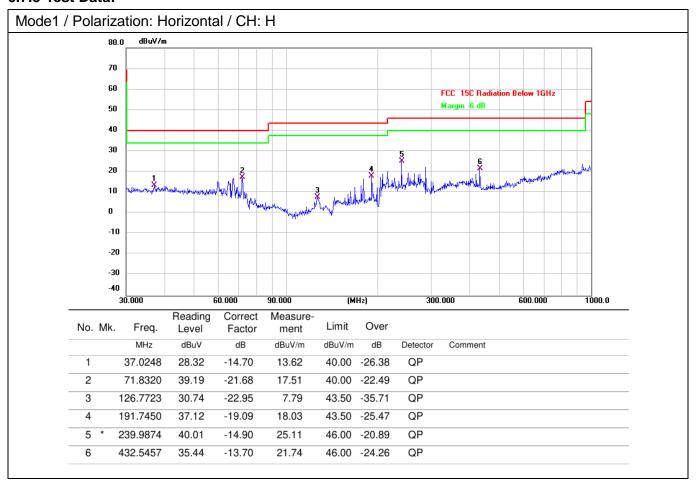
6.7.2 Test Setup Diagram:







6.7.3 Test Data:



5

6

378.5843

649.6597

34.48

31.27

-15.11

-10.79

19.37

20.48

Mode1 / Polarization: Vertical / CH: H dBuV/m 80.0 70 60 Margin -6 dB 50 40 30 20 10 0 -10 -20 -30 -40 (MHz) 600.000 30.000 60.000 90.000 300.000 1000.0 Reading Correct Measure-Over Limit No. Mk. Freq. Level Factor ment MHz dBuV dB dBuV/m dBuV/m dB Detector Comment 36.0007 39.14 -24.71 14.43 40.00 -25.57 QP 2 60.0691 41.67 -21.34 20.33 40.00 -19.67 QP 191.7450 QP 3 43.54 -19.21 24.33 43.50 -19.17 239.9874 44.71 -19.21 25.50 46.00 -20.50 QP 4

46.00 -26.63

46.00 -25.52

QP

QP



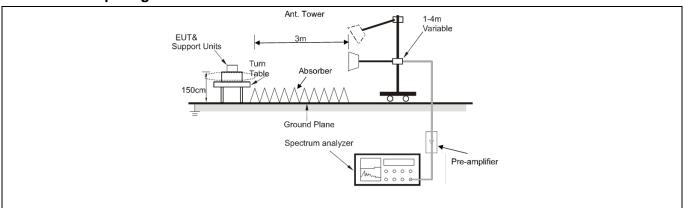
6.8 Radiated emissions (above 1GHz)

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), fundamental perating under this section shows the perating under this section shows the perating under this section shows the peration of th	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 sec KDB 558074 D01 15.2	ction 6.6.4 47 Meas Guidance v05r02	
Procedure:	ANSI C63.10-2013 sed	ction 6.6.4	

6.8.1 E.U.T. Operation:

Operating Envi	ronment:						
Temperature:	26 °C	Humidity: 54 % Atmospheric Pressure: 101 kPa					
Pre test mode:	mode: Mode1, Mode2						
Final test mode	e:		•	re-test mode w ded in the repo	ere tested, only the data ort	of the worst mode	
Note: Test freq attenuated mo					itude of spurious emission orted.	ns which are	
All modes of or	peration of	of the	EUT were in	vestigated, and	d only the worst-case resu	ults are reported.	

6.8.2 Test Setup Diagram:





6.8.3 Test Data:

Mode1 / Pola	rizatio	n: Horizonta	al / CH: L					
No	. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4804.000	57.27	0.53	57.80	74.00	-16.20	peak
2	*	4804.000	52.63	0.53	53.16	54.00	-0.84	AVG
3	}	7206.000	42.87	7.90	50.77	74.00	-23.23	peak
4		7206.000	36.79	7.90	44.69	54.00	-9.31	AVG
5	i	9608.000	46.86	8.85	55.71	74.00	-18.29	peak
- 6	5	9608.000	40.49	8.85	49.34	54.00	-4.66	AVG

MHz dBuV dB dBuV/m dBuV/m dB 1 4804.000 47.75 0.53 48.28 74.00 -25.7	Detector
1 4804 000 47 75 0 53 48 28 74 00 -25	Dottottoi
1 4004.000 47.75 0.35 40.20 74.00 -23.5	2 peak
2 4804.000 42.73 0.53 43.26 54.00 -10.7	4 AVG
3 7206.000 44.15 7.90 52.05 74.00 -21.9	5 peak
4 7206.000 38.69 7.90 46.59 54.00 -7.4	1 AVG
5 9608.000 45.45 8.85 54.30 74.00 -19.7	0 peak
6 * 9608.000 39.72 8.85 48.57 54.00 -5.4	3 AVG



Mode1 / Polarization: Horizontal / CH: M Reading Correct Measure-Limit Over No. Mk. Freq. Level Factor ment dBuV dB dBuV/m dΒ MHz dBuV/m Detector 4880.000 54.98 0.56 55.54 74.00 -18.461 peak 2 49.91 0.56 50.47 -3.53AVG 4880.000 54.00 3 7320.000 42.79 7.54 -23.67 50.33 74.00 peak 4 7320.000 38.14 7.54 45.68 54.00 -8.32AVG 5 9760.000 44.92 9.33 54.25 74.00 -19.75 peak 9760.000 40.35 9.33 49.68 54.00 -4.32AVG 6

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4880.000	51.18	0.56	51.74	74.00	-22.26	peak
2		4880.000	46.03	0.56	46.59	54.00	-7.41	AVG
3		7320.000	43.16	7.54	50.70	74.00	-23.30	peak
4		7320.000	37.82	7.54	45.36	54.00	-8.64	AVG
5		9760.000	43.97	9.33	53.30	74.00	-20.70	peak
6	*	9760.000	39.24	9.33	48.57	54.00	-5.43	AVG



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4960.000	53.57	0.66	54.23	74.00	-19.77	peak
2	*	4960.000	49.02	0.66	49.68	54.00	-4.32	AVG
3		7440.000	45.49	7.94	53.43	74.00	-20.57	peak
4		7440.000	40.68	7.94	48.62	54.00	-5.38	AVG
5		9920.000	44.65	9.69	54.34	74.00	-19.66	peak
6		9920.000	39.88	9.69	49.57	54.00	-4.43	AVG

2 4960.000 44.82 0.66 45.48 54.00 -8.52 AV 3 7440.000 43.95 7.94 51.89 74.00 -22.11 pe	ector
2 4960.000 44.82 0.66 45.48 54.00 -8.52 AV 3 7440.000 43.95 7.94 51.89 74.00 -22.11 pe	50101
3 7440.000 43.95 7.94 51.89 74.00 -22.11 pe	eak
	VG
	eak
4 7440.000 38.65 7.94 46.59 54.00 -7.41 A	VG
5 9920.000 45.09 9.69 54.78 74.00 -19.22 pe	eak
6 * 9920.000 39.88 9.69 49.57 54.00 -4.43 A	VG



Photographs of the test setup

Refer to Appendix - Test Setup Photos



Photographs of the EUT

Refer to Appendix - EUT Photos



Appendix

Appendix A: DTS Bandwidth

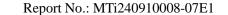
Test Result

Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	Limit [MHz]	Verdict
BLE_1M		2402	0.680	0.5	PASS
	Ant1	2440	0.680	0.5	PASS
		2480	0.692	0.5	PASS
BLE_2M		2402	1.148	0.5	PASS
	Ant1	2440	0.980	0.5	PASS
		2480	1.164	0.5	PASS



Test Graphs









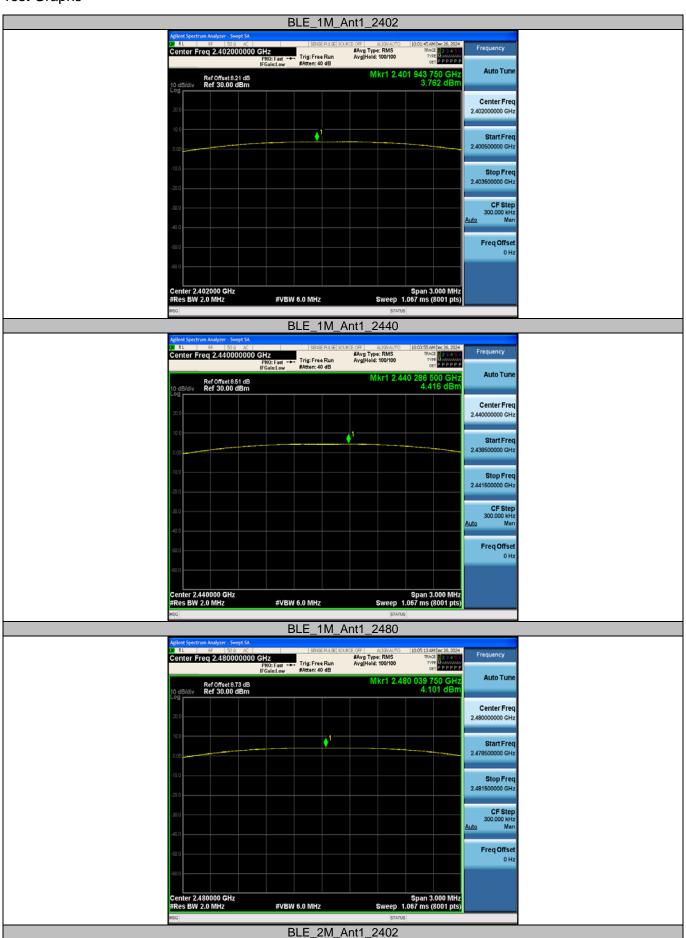
Appendix B: Maximum conducted output power

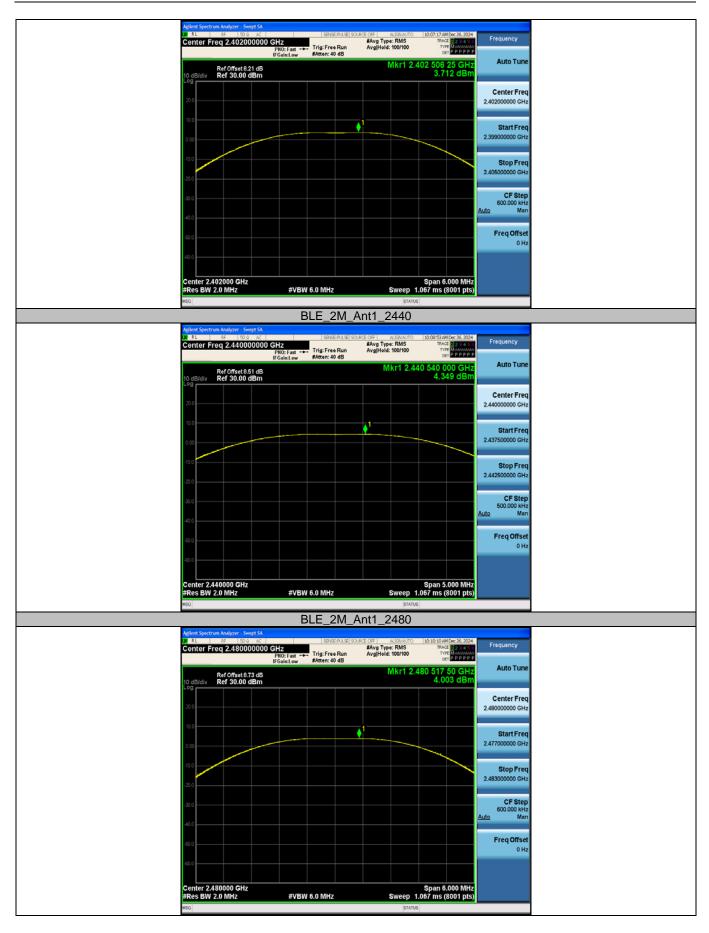
Test Result-Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Limit [dBm]	Verdict
BLE_1M		2402	3.76	≤30	PASS
	Ant1	2440	4.42	≤30	PASS
		2480	4.10	≤30	PASS
BLE_2M	Ant1	2402	3.71	≤30	PASS
		2440	4.35	≤30	PASS
		2480	4.00	≤30	PASS



Test Graphs





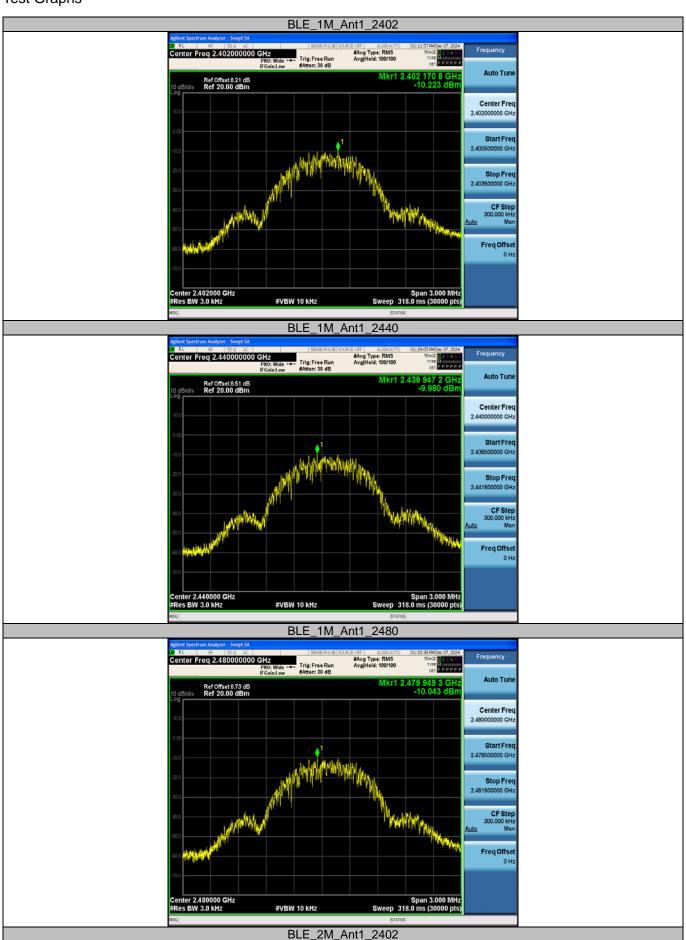


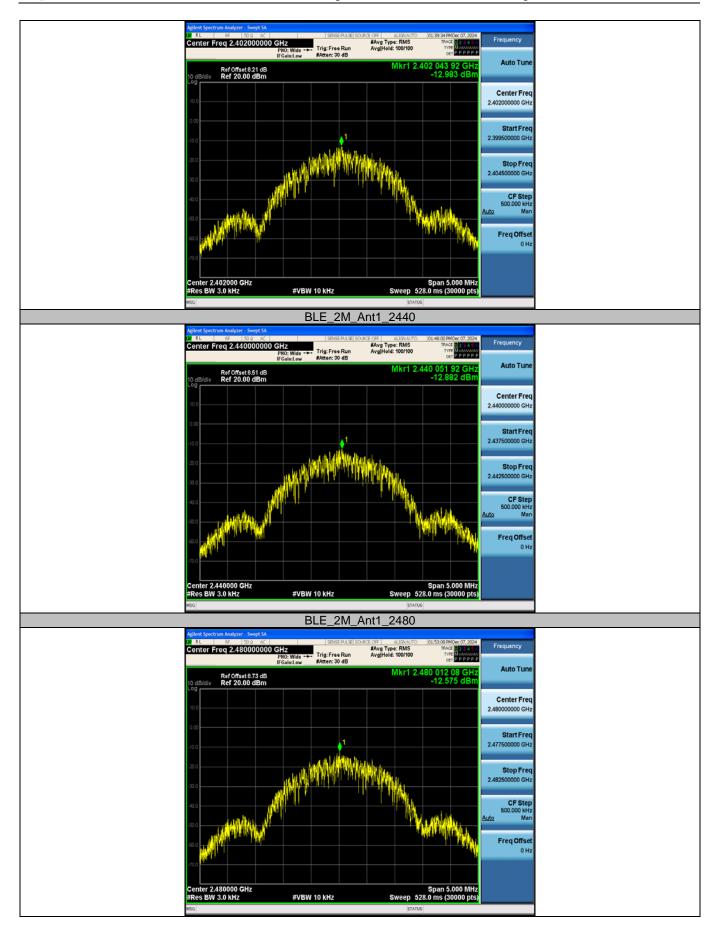
Appendix C: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-10.22	≤8.00	PASS
		2440	-9.98	≤8.00	PASS
		2480	-10.04	≤8.00	PASS
BLE_2M	Ant1	2402	-12.98	≤8.00	PASS
		2440	-12.88	≤8.00	PASS
		2480	-12.58	≤8.00	PASS



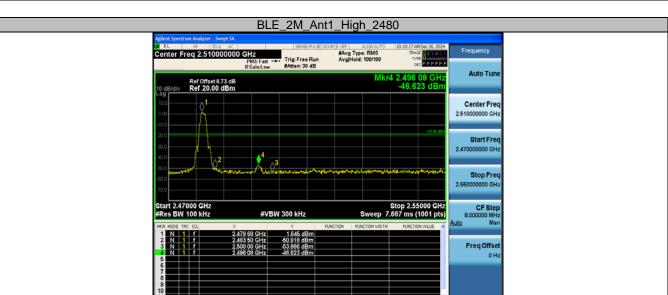






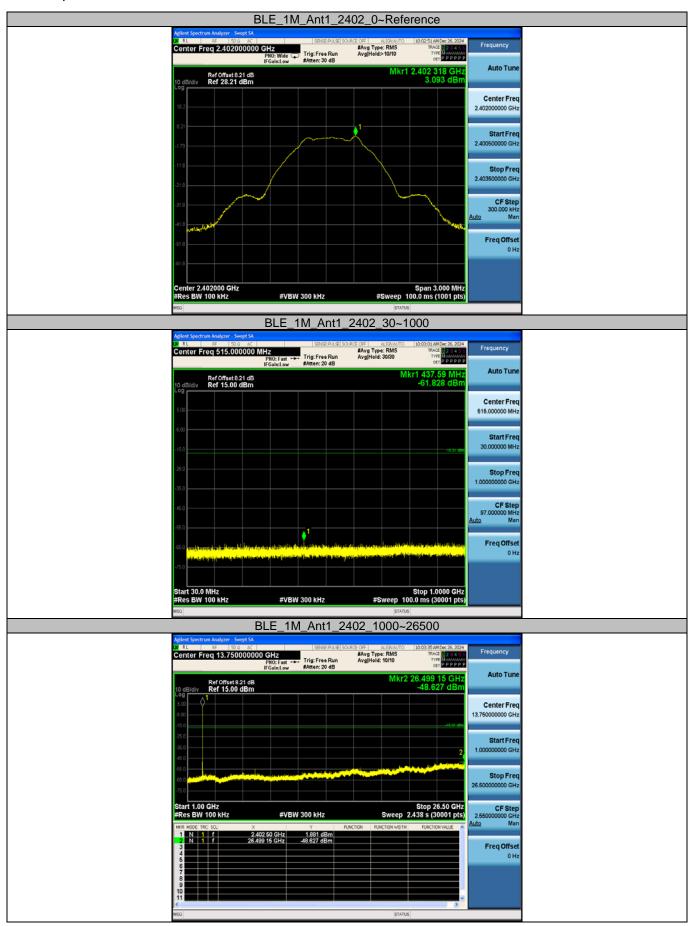
Appendix D: Band edge measurements



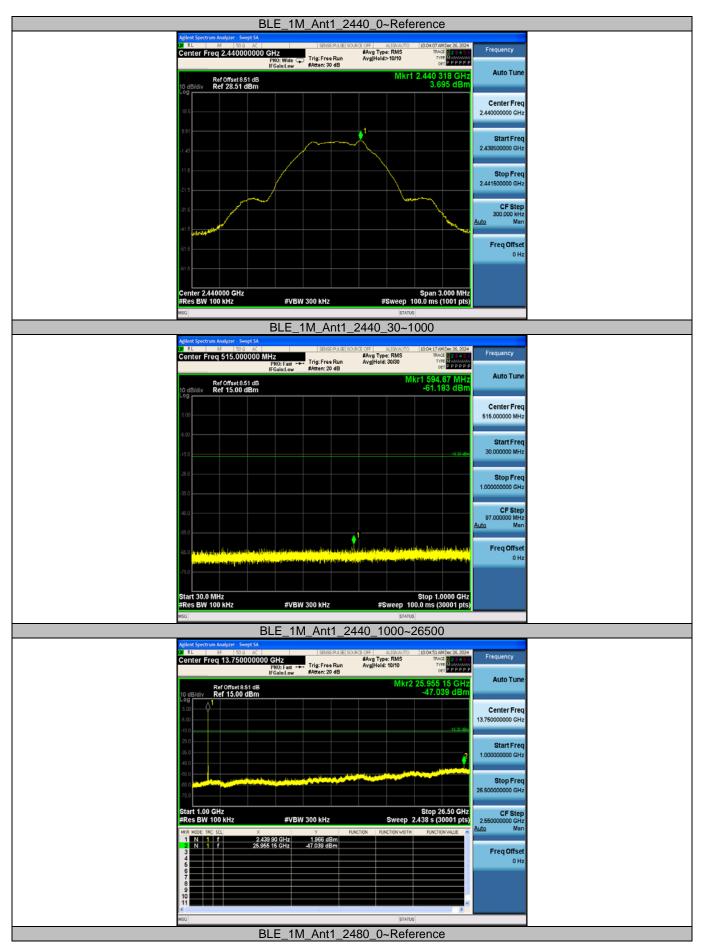


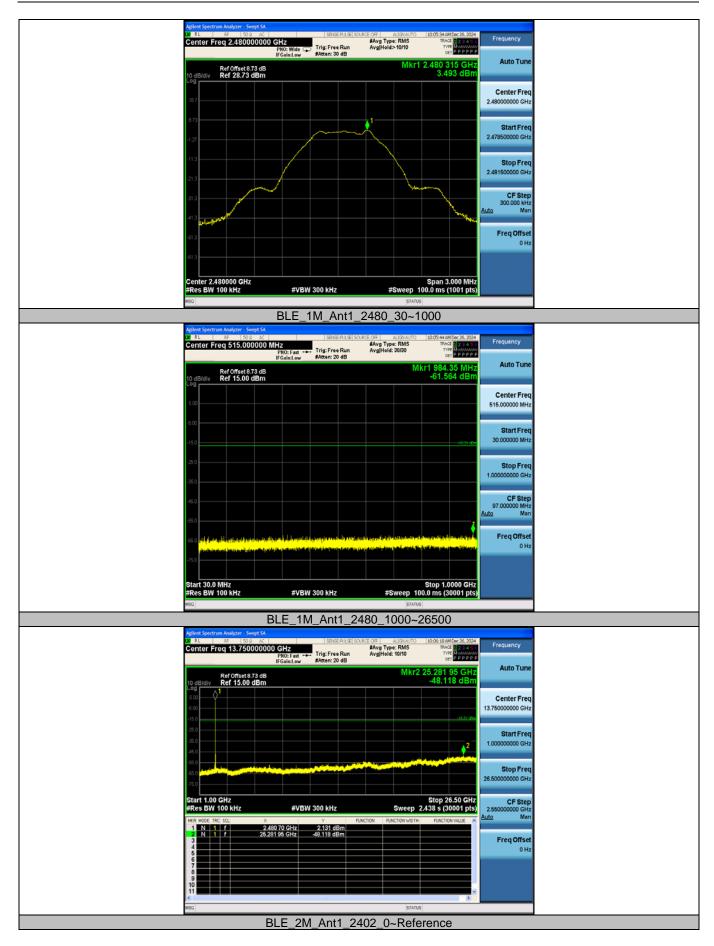


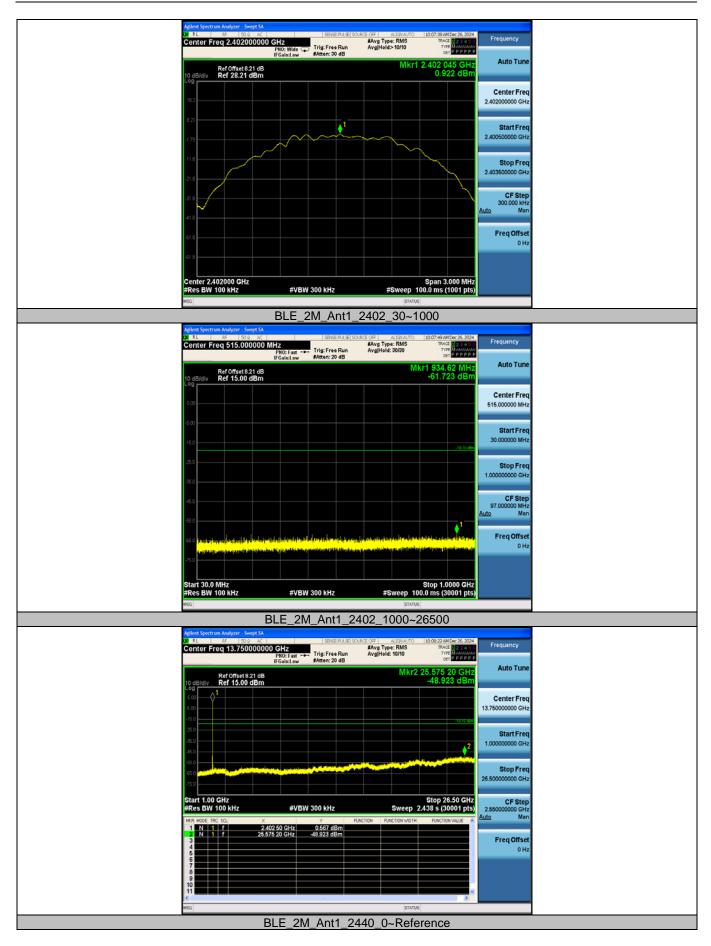
Appendix E: Conducted Spurious Emission



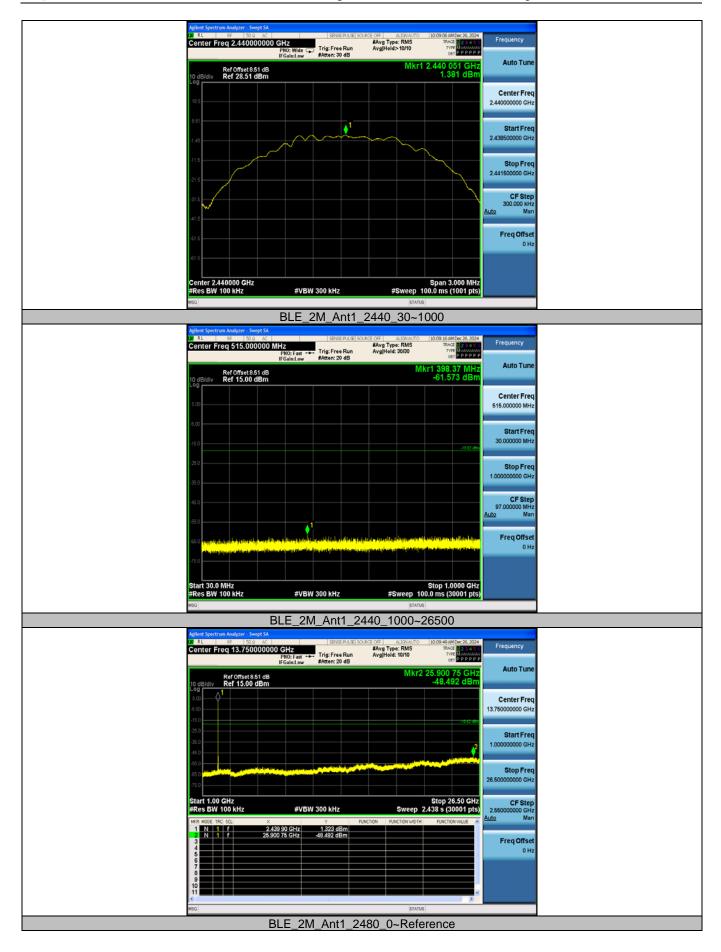


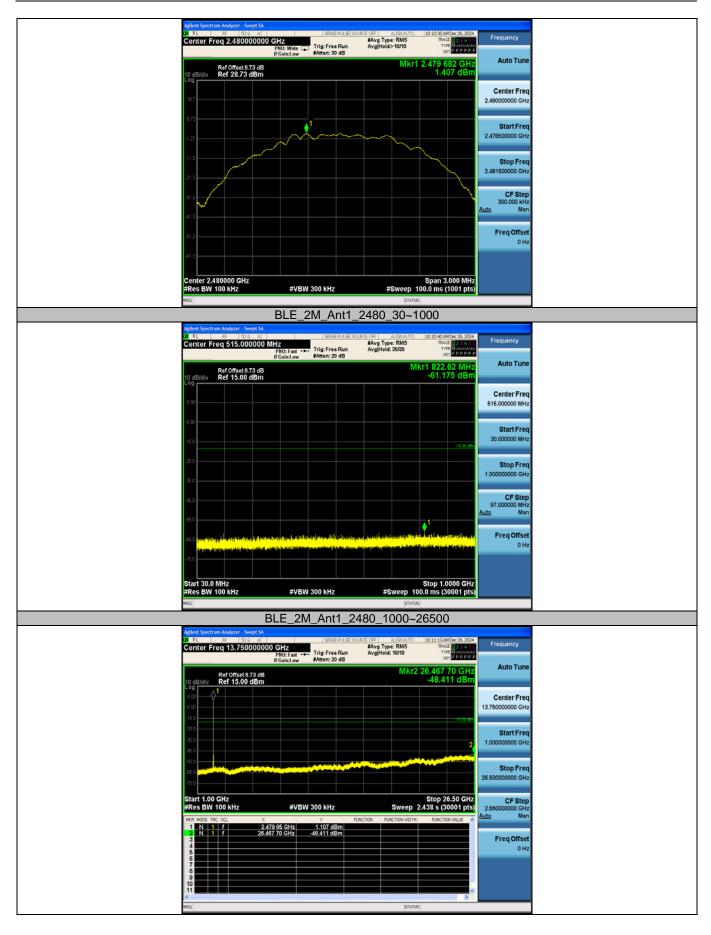














Appendix F: Duty Cycle

Test Result

Test Mode	Antenna	Frequency	ON Time	Period	Duty Cycle	Duty Cycle
		[MHz]	[ms]	[ms]	[%]	Factor[dB]
BLE_1M	Ant1	2402	0.41	0.62	66.13	1.80
		2440	0.41	0.61	67.21	1.73
		2480	0.41	0.62	66.13	1.80
BLE_2M	Ant1	2402	0.21	0.62	33.87	4.70
		2440	0.21	0.62	33.87	4.70
		2480	0.21	0.62	33.87	4.70







----End of Report----