Shenzhen Toby Technology Co., Ltd.

Report No.: TB-FCC145089 1 of 33 Page:

FCC Radio Test Report FCC ID: XMF-MID1008

FCC Class II Permissive Change

Report No. TB-FCC145089

Lightcomm Technology Co., Ltd. **Applicant**

Equipment Under Test (EUT)

EUT Name MID

Model No. MID1008-L

Series Model No. DL1010Q, DL1008M

N/A **Brand Name**

Receipt Date 2015-08-12

2015-08-12 to 2015-08-17 **Test Date**

Issue Date 2015-08-18

FCC Part 15: 2014, Subpart C(15.247) **Standards**

Test Method ANSI C63.10:2013

Conclusions **PASS**

In the configuration tested, the EUT complied with the standards specified above,

The EUT technically complies with the FCC and IC requirements

Test/Witness Engineer

Approved& Authorized

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

TB-RF-074-1.0

Tel: +86 75526509301

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1. General Information about EUT

1.1 Client Information

Applicant: Lightcomm Technology Co., Ltd.

Address: RM 1708-10, 17/F, PROSPERITY CENTRE, 25 CHONG YIP

STREET, KWUN TONG, KOWLOON, HONG KONG

Manufacturer : Huizhou Hengdu Electronics Co., Ltd.

Address : DIP South Area, Huiao Highway, Huizhou, Guangdong, China

1.2 General Description of EUT (Equipment Under Test)

EUT Name		MID	MID			
Models No.	:	/ID1008-L, DL1010Q, DL1008M				
Model : All the other models are identical in the same PCB layout, interior struct electrical circuits, The only difference is model name for commercial put						
		Operation Frequency: 2402MHz~2480MHz				
	1/	Number of Channel:	Bluetooth 4.0 (BLE): 40 channels see note(3)			
Product		RF Output Power:	-4.171 dBm Conducted Power			
Description	d	Antenna Gain:	0 dBi FPC Antenna			
		Modulation Type:	GFSK			
	a	Bit Rate of Transmitter:	1Mbps(GFSK)			
Power Supply	:	DC power supplied by A DC Voltage supplied from				
Power Rating	:	USB DC 5V form PC. AC/DC Adapter(TEKA012-0502000UK): Input: AC 100~240V 50/60Hz 0.35A Max. Output: DC 5V 2.0A DC 3.7V 5000mAh from Li-Polymer battery				
Connecting I/O Port(S)	nnecting : The equipent have USB port for link with PC, so the equipment					

Note:

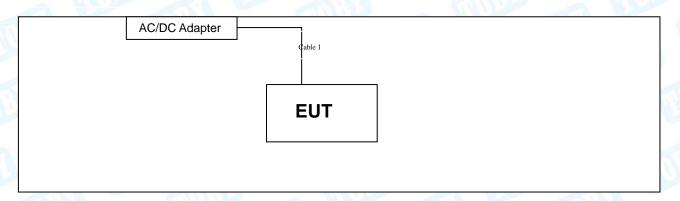
- (1) This Test Report is FCC Part 15.247 for Bluetooth BLE, the test procedure follows the FCC KDB 558074 D01 DTS Meas Guidance v03r03.
- (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- (3) Antenna information provided by the applicant.
- (4) Channel List:

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Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	14	2430	28	2458
01	2404	15	2432	29	2460
02	2406	16	2434	30	2462
03	2408	17	2436	31	2464
04	2410	18	2438	32	2466
05	2412	19	2440	33	2468
06	2414	20	2442	34	2470
07	2416	21	2444	35	2472
80	2418	22	2446	36	2474
09	2420	23	2448	37	2476
10	2422	24	2450	38	2478
11	2424	25	2452	39	2480
12	2426	26	2454		
13	2428	27	2456		

1.3 Block Diagram Showing the Configuration of System Tested

TX Mode



1.4 Description of Support Units

	Eq	uipment Informat	ion	
Name	Model	S/N	Manufacturer	Used "√"
CHILITY				THU .
		Cable Information	n	
Number	Shielded Type	Ferrite Core	Length	Note
Cable 1	NO	NO	1.0M	Accessories
		60033	THE PERSON NAMED IN	1 1 W

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1.5 Description of Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned follow was evaluated respectively.

For Conducted Test				
Final Test Mode Description				
Mode 1	AC Charging with TX Mode			

For Radiated Test				
Final Test Mode Description				
Mode 2	AC Charging with TX Mode			
Mode 3	AC Charging with TX Mode			
	(Channel 01/20/39)			

Note:

(1) For all test, we have verified the construction and function in typical operation. And all the test modes were carried out with the EUT in transmitting operation in maximum power with all kinds of data rate.

According to ANSI C63.10 standards, the measurements are performed at the highest, middle, lowest available channels, and the worst case data rate as follows:

Bluetooth BLE Mode: GFSK Modulation Transmitting mode.

- (2) During the testing procedure, the continuously transmitting with the maximum power mode was programmed by the customer.
- (3) The EUT is considered a mobile unit; in normal use it was positioned on X-plane. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.

1.6 Description of Test Software Setting

During testing channel& Power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of RF setting.

Test Software Version	Test Program: MTK Engineer Mode Open. apk			
Channel	CH 01 CH 20 CH 39			
BLE Mode	DEF DEF DEF			

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1.7 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

Test Item	Parameters	Expanded Uncertainty (U _{Lab})
	Level Accuracy:	
Conducted Emission	9kHz~150kHz	±3.42 dB
	150kHz to 30MHz	±3.42 dB
Dadiated Emission	Level Accuracy:	. 4 CO dD
Radiated Emission	9kHz to 30 MHz	±4.60 dB
Padiated Emission	Level Accuracy:	±4.40 dB
Radiated Emission	30MHz to 1000 MHz	±4.40 dB
Padiated Emission	Level Accuracy:	.4.20 dB
Radiated Emission	Above 1000MHz	±4.20 dB

1.8 Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang Section 467, Xixiang, Bao'an, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

FCC List No.: (811562)

The Laboratory is listed in the United States of American Federal Communications Commission (FCC), and the registration number is 811562.

IC Registration No.: (11950A-1)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A-1.

May 22, 2014 certificated by TUV Rheinland(China) Co., Ltd. with TUV certificate No.: UA 50282953 0001 and report No.: 17026822 002. The certificate is valid until the next scheduled audit or up to 18 months, at the discretion of TUV Rhineland.

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2. Test Summary

FCC Part 15 Subpart C(15.247)/ RSS 247 Issue 1						
Standa	rd Section	Tool Hom	ludana ant	Remark N/A		
FCC	IC	Test Item	Judgment			
15.203	1	Antenna Requirement	PASS			
15.207	RSS-GEN 7.2.4	Conducted Emission	PASS	N/A Note(3)		
15.205	RSS-GEN 7.2.2	Restricted Bands	PASS	N/A		
15.247(a)(2)	RSS 247 5.2 (1)	6dB Bandwidth	PASS	N/A Note(3)		
15.247(b)	RSS 247 5.4 (4)	Peak Output Power	PASS	N/A Note(3)		
15.247(e)	RSS 247 5.2 (2)	Power Spectral Density	PASS	N/A Note(3)		
15.247(d)	RSS 247 5.5	Transmitter Radiated Spurious Emission	PASS	N/A		

Note (1): "/" for no requirement for this test item.

^{(2):} N/A is an abbreviation for Not Applicable.

^{(3):} This report is Class II change report for the original equipment have changed, the transmitter module itself has not changed. More information about the test data please refer to the original test report.

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3. Test Equipment

Conducte	d Emission Te	est			
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Aug. 07, 2015	Aug. 06, 2016
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Aug. 07, 2015	Aug. 06, 2016
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Aug. 07, 2015	Aug. 06, 2016
LISN	Rohde & Schwarz	ENV216	101131	Aug. 07, 2015	Aug. 06, 2016
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Date
Radiation	Emission Tes				Cal. Due
Spectrum Analyzer	Agilent	E4407B	MY45106456	Sep. 01, 2014	Aug. 31, 2015
EMI Test Receiver	Rohde & Schwarz	ESCI	100010/007	Aug. 07, 2015	Aug. 06, 2016
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar. 28, 2015	Mar. 27, 2016
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Mar. 28, 2015	Mar. 27, 2016
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar. 28, 2015	Mar. 27, 2016
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar. 28, 2015	Mar. 27, 2016
Pre-amplifier	Sonoma	310N	185903	Mar. 28, 2015	Mar. 27, 2016
Pre-amplifier	HP	8447B	3008A00849	Mar. 28, 2015	Mar. 27, 2016
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar. 28, 2015	Mar. 27, 2016
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A

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4. Conducted Emission Test

4.1 Test Standard and Limit

4.1.1Test Standard FCC Part 15.207

4.1.2 Test Limit

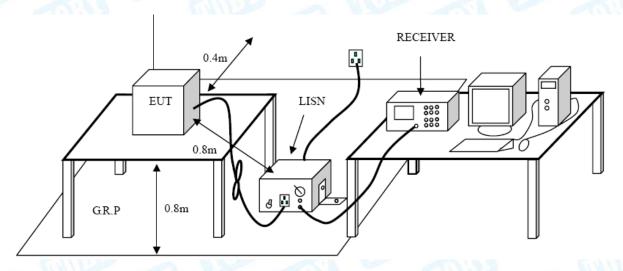
Conducted Emission Test Limit

	Maximum RF Line	e Voltage (dBμV)
Frequency	Quasi-peak Level	Average Level
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Notes:

- (1) *Decreasing linearly with logarithm of the frequency.
- (2) The lower limit shall apply at the transition frequencies.
- (3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.2 Test Setup



4.3 Test Procedure

The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/50uH of coupling impedance for the measuring instrument.

Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

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I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

LISN at least 80 cm from nearest part of EUT chassis.

The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

4.4 EUT Operating Mode

Please refer to the description of test mode.

4.5 Test Data

Please see the next page.

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EUT:	MID		Мо	del:	N	/ID1008-I	
Temperature	25 °C		Re	lative Humi	dity: 5	55%	ALL CO
Test Voltage:	: AC 2	40V/60 Hz		1	6	11:33	
Terminal:	Line		RATE		1 63		
Test Mode:	AC C	harging with	BLE TX 24	02 MHz	3	~ W	A Line
Remark: Only worse case is reported							
90.0 dBuV							
						QP: AVG:	
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10							
0.150	0.5		(MHz)	5			30.000
	_	Reading	Correct	Measure-	l imais	O:	
No. Mk.	Freq.	Level	Factor	ment	Limit	Over	D-11
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	0.1900	40.61	10.12	50.73		-13.30	QP
2	0.1900	22.79	10.12	32.91		-21.12	AVG
3	0.2540	39.58	10.10	49.68		-11.94	QP
<u>4</u>	0.2540	23.18	10.10	33.28		-18.34	AVG
5	0.3699	36.73	10.06	46.79		-11.71	QP
6	0.3699	20.64	10.06	30.70		-17.80	AVG
7 *	1.2338	36.73	10.14	46.87	56.00		QP
8	1.2338	16.11	10.14	26.25		-19.75	AVG
9	2.3420	34.72	10.06	44.78	56.00	-11.22	QP
10	2.3420	16.29	10.06	26.35	46.00	-19.65	AVG
11	4.4499	35.42	10.06	45.48	56.00	-10.52	QP
	4.4499	17.83	10.06	27.89	40.00	-18.11	AVG

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EUT:	MID		Me	odel:		MID1008	-
Temperature:	25 ℃		Re	elative Humidi	ty:	55%	Alle
Test Voltage:	AC 2	40V/60 Hz		11	67		
Terminal:	Neutr	al	DATE		18		
Test Mode:	AC C	harging wit	h BLE TX 24	402 MHz			100
Remark:	Only	worse case	is reported		m	33	
90.0 dBuV							
						QP: AVG:	
M X							
40	MM	J. Marine	<u> </u>	10 A A			
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	V V V V V		, W.		V Y	Marchard	
-10	0.5		(MHz)	5	V V	m) marken of	30.000
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	Freq.	Level	Correct Factor	Measure- ment l	_imit	Over	30.000
0.150 No. Mk.	Freq.	Level	Correct Factor	Measure- ment L	dBuV	dB	30.000 Detector
0.150 No. Mk.	Freq. MHz 0.2459	dBuV 44.03	Correct Factor	Measurement L	dBu∨ 81.89	dB -7.84	30.000 Detector QP
0.150 No. Mk.	Freq. MHz 0.2459	dBuV 44.03 24.64	Correct Factor dB 10.02	Measurement L dBuV 54.05 6 34.66 5	dBu∨ 81.89 51.89	dB -7.84 -17.23	30.000 Detector QP AVG
0.150 No. Mk. 1 * 2 3	Freq. MHz 0.2459 0.2459 0.2938	dBuV 44.03 24.64 41.89	Correct Factor dB 10.02 10.02	Measurement L dBuV 54.05 6 34.66 5 51.91 6	dBuV \$1.89 \$1.89 \$0.41	dB -7.84 -17.23 -8.50	30.000 Detector QP AVG QP
0.150 No. Mk. 1 * 2 3 4	Freq. MHz 0.2459 0.2459 0.2938 0.2938	dBuV 44.03 24.64 41.89 26.26	Correct Factor dB 10.02 10.02 10.02	Measurement L dBuV 54.05 6 34.66 5 51.91 6 36.28 5	dBuV 61.89 61.89 60.41	-7.84 -17.23 -8.50 -14.13	30.000 Detector QP AVG QP AVG
0.150 No. Mk. 1 * 2 3 4 5	Freq. MHz 0.2459 0.2459 0.2938 0.2938 0.4178	dBuV 44.03 24.64 41.89 26.26 37.08	Correct Factor dB 10.02 10.02 10.02 10.02	Measurement L dBuV 54.05 6 34.66 5 51.91 6 36.28 5 47.10 5	60.41 67.49	-7.84 -17.23 -8.50 -14.13 -10.39	30.000 Detector QP AVG QP AVG
0.150 No. Mk. 1 * 2 3 4 5 6	Freq. MHz 0.2459 0.2459 0.2938 0.2938 0.4178 0.4178	dBuV 44.03 24.64 41.89 26.26 37.08 20.07	Correct Factor dB 10.02 10.02 10.02 10.02 10.02	Measurement L dBuV 54.05 6 34.66 5 51.91 6 36.28 5 47.10 5 30.09 4	61.89 60.41 67.49 67.49	dB -7.84 -17.23 -8.50 -14.13 -10.39 -17.40	Journal Detector QP AVG QP AVG QP AVG
0.150 No. Mk. 1 * 2 3 4 5 6 7	Freq. MHz 0.2459 0.2459 0.2938 0.2938 0.4178 0.4178 1.2419	Level dBuV 44.03 24.64 41.89 26.26 37.08 20.07 35.56	Correct Factor dB 10.02 10.02 10.02 10.02 10.02 10.02 10.02 10.06	Measurement L dBuV 54.05 6 34.66 5 51.91 6 36.28 5 47.10 5 30.09 4 45.62 5	61.89 60.41 67.49 66.00	-7.84 -17.23 -8.50 -14.13 -10.39 -17.40 -10.38	Journal Detector QP AVG QP AVG QP AVG QP
0.150 No. Mk. 1 * 2 3 4 5 6 7 8	Freq. MHz 0.2459 0.2459 0.2938 0.2938 0.4178 0.4178 1.2419 1.2419	Level dBuV 44.03 24.64 41.89 26.26 37.08 20.07 35.56 15.61	Correct Factor dB 10.02 10.02 10.02 10.02 10.02 10.02 10.06 10.06	Measurement L dBuV 54.05 6 34.66 5 51.91 6 36.28 5 47.10 5 30.09 4 45.62 5 25.67 4	61.89 61.89 60.41 60.41 67.49 66.00	dB -7.84 -17.23 -8.50 -14.13 -10.39 -17.40 -10.38 -20.33	January Januar
0.150 No. Mk. 1 * 2 3 4 5 6 7 8	Freq. MHz 0.2459 0.2459 0.2938 0.2938 0.4178 0.4178 1.2419 1.2419 2.3580	Level dBuV 44.03 24.64 41.89 26.26 37.08 20.07 35.56 15.61 34.68	Correct Factor dB 10.02 10.02 10.02 10.02 10.02 10.06 10.06 10.05	Measurement L dBuV 54.05 6 34.66 5 51.91 6 36.28 5 47.10 5 30.09 4 45.62 5 25.67 4 44.73 5	61.89 60.41 67.49 66.00 66.00	dB -7.84 -17.23 -8.50 -14.13 -10.39 -17.40 -10.38 -20.33 -11.27	JOURN
No. Mk. 1 * 2 3 4 5 6 7 8 9	Freq. MHz 0.2459 0.2459 0.2938 0.2938 0.4178 0.4178 1.2419 1.2419 2.3580 2.3580	Level dBuV 44.03 24.64 41.89 26.26 37.08 20.07 35.56 15.61 34.68 16.18	Correct Factor dB 10.02 10.02 10.02 10.02 10.02 10.06 10.06 10.05 10.05	Measurement L dBuV 54.05 6 34.66 5 51.91 6 36.28 5 47.10 5 30.09 4 45.62 5 25.67 4 44.73 5 26.23 4	61.89 60.41 67.49 66.00 66.00 66.00	dB -7.84 -17.23 -8.50 -14.13 -10.39 -17.40 -10.38 -20.33 -11.27 -19.77	January Januar
0.150 No. Mk. 1 * 2 3 4 5 6 7 8 9 10 11	Freq. MHz 0.2459 0.2459 0.2938 0.2938 0.4178 0.4178 1.2419 1.2419 2.3580	Level dBuV 44.03 24.64 41.89 26.26 37.08 20.07 35.56 15.61 34.68	Correct Factor dB 10.02 10.02 10.02 10.02 10.02 10.06 10.06 10.05	Measurement L dBuV 54.05 6 34.66 5 51.91 6 36.28 5 47.10 5 30.09 4 45.62 5 25.67 4 44.73 5 26.23 4 45.26 6	61.89 60.41 67.49 66.00 66.00 66.00 60.00	dB -7.84 -17.23 -8.50 -14.13 -10.39 -17.40 -10.38 -20.33 -11.27	JOURN

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EUT:	MID		Mo	odel:		MID1008	-
Temperature:	25 ℃		Re	lative Hum	idity:	55%	Barre
Test Voltage:	AC 12	20V/60 Hz		1	63	M. S. S.	
Terminal:	Line		AMILE		A B		Carrier of the Carrie
Test Mode:	AC C	harging with	BLE TX 24	l02 MHz		2	Hill
Remark:	Only	worse case	is reported	La Company		33	- 6
90.0 dBuV							
						QP: AVG:	_
						1114	
X							
	^ ×						
40	MM.	Xwi	Maria Maria	N. JANA PANA	m Mill		
 		WANT MIL	Lind William 1.		W Vin		
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	Freq.	Level	Correct Factor	Measure- ment	Limit	Over	30.000
0.150 No. Mk.	Freq.	Level	Correct Factor	Measure- ment	dBuV	dB	30.000
0.150 No. Mk.	Freq. MHz 0.1796	Level dBu ∨ 41.30	Correct Factor dB 9.98	Measure- ment dBuV 51.28	dBu∨ 64.50	dB -13.22	30.000 Detector QP
0.150 No. Mk. 1 * 0 2 0	Freq. MHz 0.1796	dBuV 41.30 21.65	Correct Factor dB 9.98 9.98	Measure- ment dBuV 51.28 31.63	dBu√ 64.50 54.50	dB -13.22 -22.87	30.000 Detector QP AVG
0.150 No. Mk. 1 * 0 2 0 3 0	Freq. MHz 0.1796 0.1796 0.3060	Level dBu ∨ 41.30	Correct Factor dB 9.98	Measure- ment dBuV 51.28	dBu√ 64.50 54.50	dB -13.22 -22.87 -17.10	30.000 Detector QP
0.150 No. Mk. 1 * 0 2 0 3 0 4 0	Freq. MHz 0.1796 0.1796 0.3060	dBuV 41.30 21.65 32.96 9.35	Correct Factor dB 9.98 9.98 10.02	Measure- ment dBuV 51.28 31.63 42.98 19.37	64.50 54.50 60.08 50.08	dB -13.22 -22.87 -17.10 -30.71	30.000 Detector QP AVG QP AVG
0.150 No. Mk. 1 * 0 2 0 3 0 4 0 5 0	Freq. MHz 0.1796 0.1796 0.3060 0.3060 0.4340	dBuV 41.30 21.65 32.96 9.35 32.47	Correct Factor dB 9.98 9.98 10.02 10.02	Measure- ment dBuV 51.28 31.63 42.98 19.37 42.49	dBuV 64.50 54.50 60.08 50.08 57.18	-13.22 -22.87 -17.10 -30.71 -14.69	30.000 Detector QP AVG QP AVG
0.150 No. Mk. 1 * 0 2 0 3 0 4 0 5 0 6 0	Freq. MHz 0.1796 0.1796 0.3060 0.3060 0.4340 0.4340	dBuV 41.30 21.65 32.96 9.35 32.47 14.81	Correct Factor dB 9.98 9.98 10.02 10.02 10.02	Measurement dBuV 51.28 31.63 42.98 19.37 42.49 24.83	dBuV 64.50 54.50 60.08 50.08 57.18 47.18	dB -13.22 -22.87 -17.10 -30.71 -14.69 -22.35	30.000 Detector QP AVG QP AVG QP AVG
0.150 No. Mk. 1 * 0 2 0 3 0 4 0 5 0 6 0 7 1	Freq. MHz 0.1796 0.1796 0.3060 0.3060 0.4340 0.4340	Level dBuV 41.30 21.65 32.96 9.35 32.47 14.81 29.80	Correct Factor dB 9.98 9.98 10.02 10.02 10.02 10.02 10.06	Measurement dBuV 51.28 31.63 42.98 19.37 42.49 24.83 39.86	dBuV 64.50 54.50 60.08 50.08 57.18 47.18 56.00	-13.22 -22.87 -17.10 -30.71 -14.69 -22.35 -16.14	30.000 Detector QP AVG QP AVG QP AVG
0.150 No. Mk. 1 * 0 2 0 3 0 4 0 5 0 6 0 7 1 8 1	Freq. MHz 0.1796 0.1796 0.3060 0.3060 0.4340 0.4340 0.4340 1.2020	Level dBuV 41.30 21.65 32.96 9.35 32.47 14.81 29.80 5.36	Correct Factor 9.98 9.98 10.02 10.02 10.02 10.06 10.06	Measurement dBuV 51.28 31.63 42.98 19.37 42.49 24.83 39.86 15.42	64.50 54.50 60.08 57.18 47.18 56.00 46.00	-13.22 -22.87 -17.10 -30.71 -14.69 -22.35 -16.14 -30.58	30.000 Detector QP AVG QP AVG QP AVG
0.150 No. Mk. 1 * 0 2 0 3 0 4 0 5 0 6 0 7 1 8 1 9 2	Freq. MHz 0.1796 0.1796 0.3060 0.3060 0.4340 0.4340 0.2020 0.2059 0.3340	Level dBuV 41.30 21.65 32.96 9.35 32.47 14.81 29.80 5.36 30.20	Correct Factor 9.98 9.98 10.02 10.02 10.02 10.06 10.06 10.05	Measurement dBuV 51.28 31.63 42.98 19.37 42.49 24.83 39.86 15.42 40.25	dBuV 64.50 54.50 60.08 50.08 57.18 47.18 56.00 46.00 56.00	-13.22 -22.87 -17.10 -30.71 -14.69 -22.35 -16.14 -30.58 -15.75	JOURNAL AVE JOURNAL AVE
0.150 No. Mk. 1 * 0 2 0 3 0 4 0 5 0 7 1 8 1 9 2 10 2	Freq. MHz 0.1796 0.3060 0.3060 0.4340 0.4340 1.2020 1.2059 2.3340 2.3340	Level dBuV 41.30 21.65 32.96 9.35 32.47 14.81 29.80 5.36 30.20 4.79	Correct Factor 9.98 9.98 10.02 10.02 10.02 10.06 10.06 10.05	Measurement dBuV 51.28 31.63 42.98 19.37 42.49 24.83 39.86 15.42 40.25 14.84	dBuV 64.50 54.50 60.08 50.08 57.18 47.18 56.00 46.00	-13.22 -22.87 -17.10 -30.71 -14.69 -22.35 -16.14 -30.58 -15.75 -31.16	30.000 Detector QP AVG QP AVG QP AVG QP AVG
No. Mk. 1 * 0 2 0 3 0 4 0 5 0 6 0 7 1 8 1 9 2 10 2 11 7	Freq. MHz 0.1796 0.1796 0.3060 0.3060 0.4340 0.4340 0.2020 0.2059 0.3340	Level dBuV 41.30 21.65 32.96 9.35 32.47 14.81 29.80 5.36 30.20	Correct Factor 9.98 9.98 10.02 10.02 10.02 10.06 10.06 10.05	Measurement dBuV 51.28 31.63 42.98 19.37 42.49 24.83 39.86 15.42 40.25	dBuV 64.50 54.50 60.08 50.08 57.18 47.18 56.00 46.00 56.00 60.00	-13.22 -22.87 -17.10 -30.71 -14.69 -22.35 -16.14 -30.58 -15.75	Detector QP AVG QP AVG QP AVG QP AVG

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	MID		Model:	I.	MID1008-L	111
Temperature:	25 ℃		Relative Hu	ımidity:	55%	ARA
Test Voltage:	AC 120	V/60 Hz		64	11:33	
Terminal:	Neutral			a v		
Test Mode:	AC Cha	rging with BLE	TX 2402 MHz	ر النوال	O A	
Remark:	Only wo	rse case is rep	orted		33	
90.0 dBuV					QP:	_
40		Manda Markan	A Samuel Market	V My	AVG:	peak
-10	V V W W	Try Agents		whenther	d-my-d-y-d-y-d-y-d-y-d-y-d-y-d-y-d-y-d-y	MAVG
-10 0.150	0.5	(M	Hz) 5		hundhahah	30.000
0.150	R	(M Reading Co		re	Over	
0.150 No. Mk. F	R	(M Reading Co Level Fa	Hz) 5	re- t Limit	Over dB	
0.150 No. Mk. F	F req . MHz	(Magazina Col Level Fa	Hz) 5 rrect Measu	t Limit		30.000
0.150 No. Mk. F	Freq. MHz 1780	Reading Col Level Fa	Hz) 5 rrect Measu actor ment	t Limit dBuV 64.57	dB	30.000
0.150 No. Mk. F 1 * 0. 2 0.	Freq. MHz 1780	Reading Cor Level Fa dBuV d 40.22 9	rrect Measu actor meni B dBuV	dBuV 64.57	dB -14.37 -25.45	30.000 Detecto
0.150 No. Mk. F 1 * 0. 2 0. 3 0.	Freq. MHz 1780 1780 2460	Reading Col Level Fa dBuV d 40.22 9 19.14 9	Hz) 5 rrect Measu mental dBuV .98 50.20 .98 29.12	dBuV 64.57 61.89	dB -14.37 -25.45	Joetecto QP
0.150 No. Mk. F 1 * 0. 2 0. 3 0 4 0	Freq. MHz 1780 1780 2460	Reading Cor Level Fa dBuV d 40.22 9 19.14 9 34.29 10	Hz) 5 rrect Measu mental Measu	dBuV 64.57 54.57 61.89	dB -14.37 -25.45 -17.58	Detecto QP AVC
0.150 No. Mk. F 1 * 0. 2 0. 3 0 4 0 5 0	Freq. MHz 1780 1780 2460 2460 3060	Reading Col Level Fa dBuV d 40.22 9 19.14 9 34.29 10 15.96 10	Hz) 5 rrect Measu ment dBu	dBuV 64.57 2 54.57 61.89 60.08	dB -14.37 -25.45 -17.58 -25.91	Detecto QP AVC
0.150 No. Mk. F 1 * 0. 2 0. 3 0 4 0 5 0 6 0	Treq. MHz 1780 1780 2460 2460 3060	Reading Col Level Fa dBuV d 40.22 9 19.14 9 34.29 10 15.96 10 32.85 10	Hz) 5 rrect Measu ment dBuV .98 50.20 .98 29.12 .02 44.31 .02 25.98 .02 42.87	t Limit dBuV 64.57 54.57 61.89 51.89 60.08 50.08	dB -14.37 -25.45 -17.58 -25.91 -17.21	30.000 Detecto QP AVC QP QP
0.150 No. Mk. F 1 * 0. 2 0. 3 0. 4 0. 5 0. 6 0. 7 0.	Treq. MHz 1780 1780 2460 2460 3060 4300	Reading Cor Level Fa dBuV d 40.22 9 19.14 9 34.29 10 15.96 10 32.85 10 15.86 10	Hz) 5 rrect Measument B dBuV .98 50.20 .98 29.12 .02 44.31 .02 25.98 .02 42.87	t Limit dBuV 64.57 54.57 61.89 51.89 60.08 57.25	dB -14.37 -25.45 -17.58 -25.91 -17.21 -24.20	JOURN
0.150 No. Mk. F 1 * 0. 2 0. 3 0. 4 0. 5 0. 6 0. 7 0. 8 0.	Treq. MHz 1780 1780 2460 2460 3060 3060 4300 4300	Reading Collevel Fa dBuV d 40.22 9 19.14 9 34.29 10 15.96 10 32.85 10 15.86 10 17.51 10	Hz) 5 rrect Measu ment dBuV .98 50.20 .98 29.12 .02 44.31 .02 25.98 .02 42.87 .02 25.88	t Limit dBuV 64.57 61.89 51.89 60.08 57.25 47.25	dB -14.37 -25.45 -17.58 -25.91 -17.21 -24.20 -15.57	JOURNAL STATE OF THE PROPERTY
0.150 No. Mk. F 1 * 0. 2 0. 3 0. 4 0. 5 0. 6 0. 7 0. 8 0. 9 1.	Treq. MHz 1780 1780 2460 2460 3060 3060 4300 4300	Reading Cor Level Fa dBuV d 40.22 9 19.14 9 34.29 10 15.96 10 32.85 10 15.86 10 31.66 10 17.51 10	Hz) 5 rrect Measument B dBuV .98 50.20 .98 29.12 .02 44.31 .02 25.98 .02 42.87 .02 25.88 .02 41.68	t Limit dBuV 64.57 54.57 61.89 51.89 60.08 57.25 47.25 56.00	-14.37 -25.45 -17.58 -25.91 -17.21 -24.20 -15.57 -19.72	JOURNAL STATE OF THE PROPERTY
0.150 No. Mk. F 1 * 0. 2 0. 3 0. 4 0. 5 0. 6 0. 7 0. 8 0. 9 1.	Treq. MHz 1780 1780 2460 2460 3060 4300 4300 2380 2380	Reading Collaboration Readin	hz) 5 rrect Measure ment dBu	Heret Limit dBuV 0 64.57 61.89 60.08 57.25 47.25 6.00 46.00	dB -14.37 -25.45 -17.58 -25.91 -17.21 -24.20 -15.57 -19.72 -15.10	Detector QP AVC QP AVC QP AVC

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5. Radiated Emission Test

5.1 Test Standard and Limit

5.1.1 Test Standard FCC Part 15.209

5.1.2 Test Limit

Radiated Emission Limits (9kHz~1000MHz)

Frequency (MHz	Field Strength (microvolt/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

Radiated Emission Limit (Above 1000MHz)

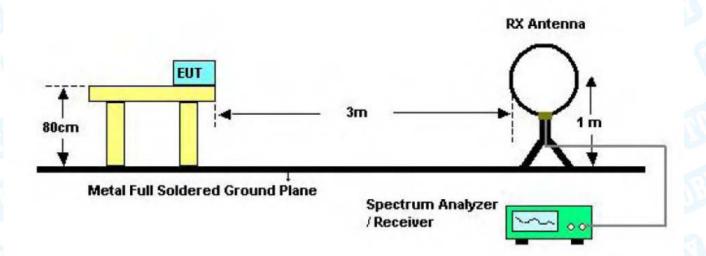
Frequency	Class A (dBuV	//m)(at 3 M)	Class B (dBuV/m)(at 3 M)	
(MHz)	Peak	Average	Peak	Average
Above 1000	80	60	74	54

Note:

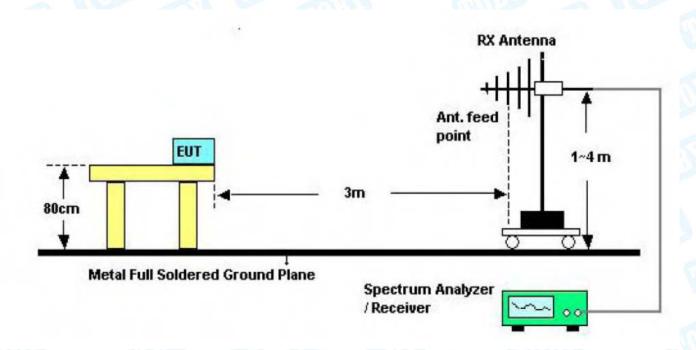
- (1) The tighter limit applies at the band edges.
- (2) Emission Level(dBuV/m)=20log Emission Level(uV/m)

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4.2 Test Setup

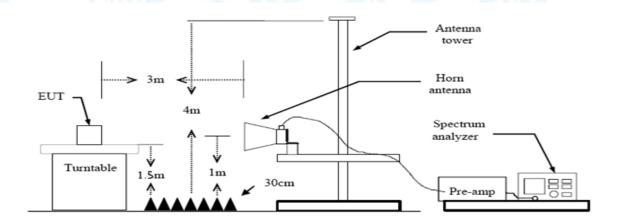


Below 30MHz Test Setup



Below 1000MHz Test Setup

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Above 1GHz Test Setup

5.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz. The EUT was placed on a rotating 0.8m high above the ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (4) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.

5.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

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5.5 Test Data

Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=1 kHz with Peak Detector for Average Values.

Test data please refer the following pages.

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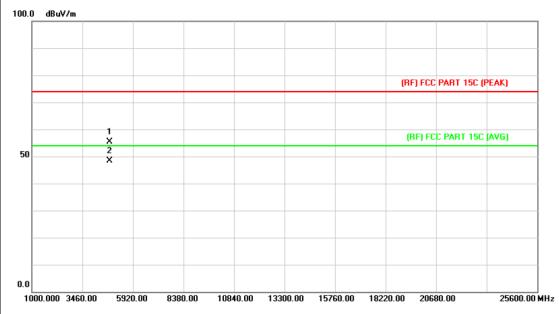
	•	MID	1313	M	odel:	N	1ID1008-L	100
Гет	perature:	25 °C		Re	elative Humi	dity: 5	5%	The same
Гest	Voltage:	AC 1	20V/60 Hz		11	61	133	
Ant.	Pol.	Horiz	ontal	BAILT		V V		
Test	Mode:	BLE	TX 2402 Mo	de	WHO !	3	2 113	
Rem	ark:	Only	worse case	is reported		CTILL'S	13	
30	dBuV/m	50 60 70	80	2 3 X	300	5 X X	15C 3M Radiation Margin -6	
N	lo. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
- '		•						
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detecto
1	* 8	•	dBu∀ 55.19	dB/m -23.18	dBuV/m 32.01	dBuV/m	dB -7.99	
		MHz						peak
1	1:	MHz 81.7831	55.19	-23.18	32.01	40.00	-7.99	peak peak
1 2	1:	MHz 31.7831 35.0319	55.19 51.41	-23.18 -22.08	32.01 29.33	40.00 43.50	-7.99 -14.17	peak peak peak
1 2 3	1: 1: 2:	MHz 31.7831 35.0319 60.9088	55.19 51.41 52.46	-23.18 -22.08 -20.57	32.01 29.33 31.89	40.00 43.50 43.50	-7.99 -14.17 -11.61	peak peak peak peak peak

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:UT:	MID	Model:		MID1008-L	
emperature:	25 ℃	Relative	Humidity:	55%	ALL DE
est Voltage:	AC 120V/60 Hz	The state of the s		MAN TO THE	
nt. Pol.	Vertical	A KILL			
est Mode:	BLE TX 2402 Mo	de	11.75	- W	
Remark:	Only worse case	is reported	630	CAD -	
80.0 dBuV/m					
30	Ž	3 X X X	(RF)F	CC 15C 3M Radiation Margin -6	6 dB
20 30.000 40 50	60 70 80	(MHz)	300 400	500 600 700	1000.00
20	60 70 80	(MHz)	300 400		
20 30.000 40 50	Tork Supposed	,	300 400 ure-	500 600 700	
20 30.000 40 50	Reading eq. Level	(MHz) Correct Measu	300 400 ure- nt Limit	500 600 700 Over	
20 30.000 40 50 No. Mk. Fr	Reading eq. Level	(MHz) Correct Measure Factor men	300 400 ure- nt Limit	500 600 700 Over	1000.00
20 30.000 40 50 No. Mk. Fr	Reading eq. Level	Correct Measu Factor mer	300 400 ure- nt Limit Vm dBuV/	Over (m dB) (0 -4.52)	1000.000
No. Mk. From Mt. 1 ! 42.4	Reading Level Hz dBuV 508 56.67 653 59.01	Correct Measurement Maym dBuv -21.19 35.4	300 400 ure- nt Limit //m dBuV/ 48 40.0 66 40.0	Over (m dB) (0 -4.52) (0 -4.34)	Detector peak
No. Mk. From Mt 1 ! 42.4 2 * 77.8	Reading Level Hz dBuV 508 56.67 653 59.01 5062 53.49	Correct Measurement Measurement Maym dBuv -21.19 35.4	300 400 ure- nt Limit 7/m dBuV/ 48 40.0 66 40.0 42 43.5	Over m dB 0 -4.52 0 -4.34 0 -12.08	Detector peak
No. Mk. From Miles 1 ! 42.4 2 * 77.8 3 135.5	Reading Level Hz dBuV 508 56.67 653 59.01 5062 53.49 0414 55.19	Correct Measurement Measuremen	300 400 ure- nt Limit 1/m dBuV/ 18 40.0 16 40.0 12 43.5 15 43.5	Over (m dB 10 -4.52 10 -4.34 10 -12.08 10 -8.96	Detector peak peak peak

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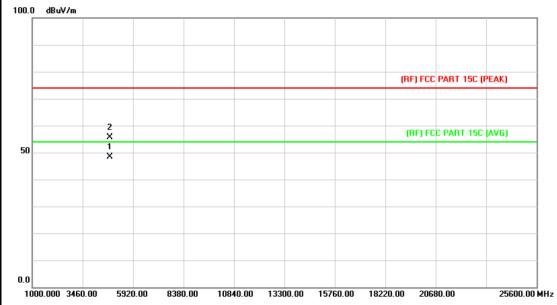
EUT:	MID	Model:	MID1008-L
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz	011	
Ant. Pol.	Horizontal		
Test Mode:	BLE Mode TX 2402 MHz		
Remark:	No report for the emissio prescribed limit.	n which more than 10 o	dB below the
100.0 10.111			



No	. Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4804.312	42.00	13.44	55.44	74.00	-18.56	peak
2	*	4804.326	34.93	13.44	48.37	54.00	-5.63	AVG

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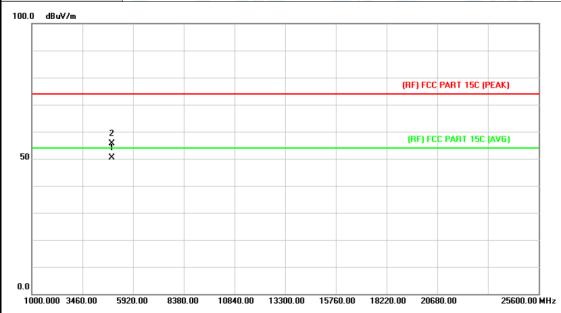
EUT:	MID	Model:	MID1008-L
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz	011	The second
Ant. Pol.	Vertical		
Test Mode:	BLE Mode TX 2402 MHz		THE PARTY OF THE P
Remark:	No report for the emissio prescribed limit.	n which more than 10 o	dB below the
400.0 10.111			



ı	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		*	4804.210	34.91	13.44	48.35	54.00	-5.65	AVG
2			4804.240	42.17	13.44	55.61	74.00	-18.39	peak

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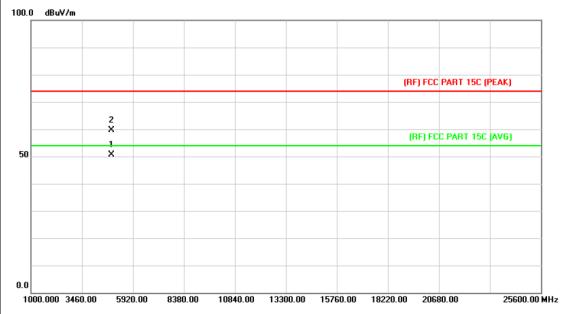
EUT:	MID	Model:	MID1008-L
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz	011	Will be
Ant. Pol.	Horizontal		
Test Mode:	BLE Mode TX 2442 MHz		
Remark:	No report for the emissio prescribed limit.	n which more than 10 o	dB below the



N	o. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4882.685	36.44	13.90	50.34	54.00	-3.66	AVG
2		4882.764	41.78	13.90	55.68	74.00	-18.32	peak

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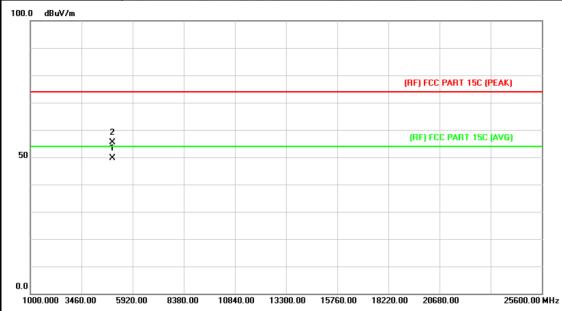
EUT:	MID	Model:	MID1008-L				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 HZ	011	THE THE				
Ant. Pol.	Vertical						
Test Mode:	BLE Mode TX 2442 MHz						
Remark:	No report for the emissio prescribed limit.	No report for the emission which more than 10 dB below the prescribed limit.					
100 0 ID VI							



No	. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4882.364	36.78	13.90	50.68	54.00	-3.32	AVG
2		4882.657	45.74	13.90	59.64	74.00	-14.36	peak

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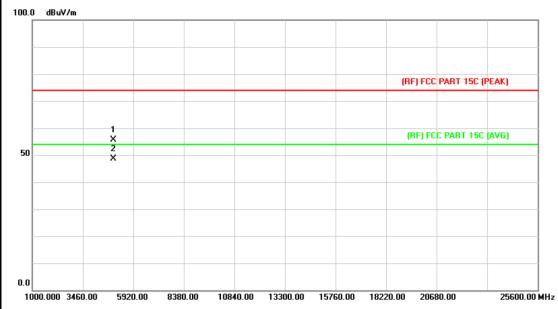
EUT:	MID	Model:	MID1008-L			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 HZ	011				
Ant. Pol.	Horizontal					
Test Mode:	BLE Mode TX 2480 MHz					
Remark:	No report for the emission which more than 10 dB below the prescribed limit.					
100.0 dDuV/m						



No	. Mk	Freq.	_	Correct Factor	Measure- ment	Limit	O∨er	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4960.857	35.32	14.36	49.68	54.00	-4.32	AVG
2		4960.987	40.96	14.36	55.32	74.00	-18.68	peak

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EUT:	MID	Model:	MID1008-L			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 HZ	011	Will be			
Ant. Pol.	Vertical					
Test Mode:	BLE Mode TX 2480 MHz		THE PARTY OF			
Remark:	No report for the emission which more than 10 dB below the prescribed limit.					
100.0 40.3//-	procention innit.		12.0			



No	. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4960.325	41.32	14.36	55.68	74.00	-18.32	peak
2	*	4960.542	34.31	14.36	48.67	54.00	-5.33	AVG

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6. Restricted Bands Requirement

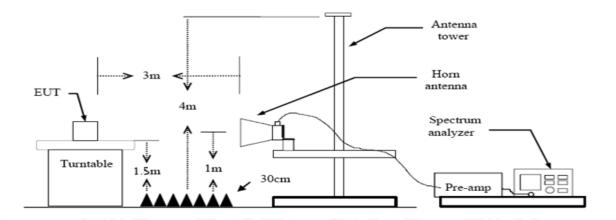
6.1 Test Standard and Limit

6.1.1 Test Standard FCC Part 15.209 FCC Part 15.205

6.1.2 Test Limit

Restricted Frequency	Class B (dBuV/m)(at 3 M)				
Band (MHz)	Peak	Average			
2310 ~2390	74	54			
2483.5 ~2500	74	54			

6.2 Test Setup



6.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz. The EUT was placed on a rotating 0.8m high above the ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (4) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit

Report No.: TB-FCC145089
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Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode

measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.

- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.

6.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

6.5 Test Data

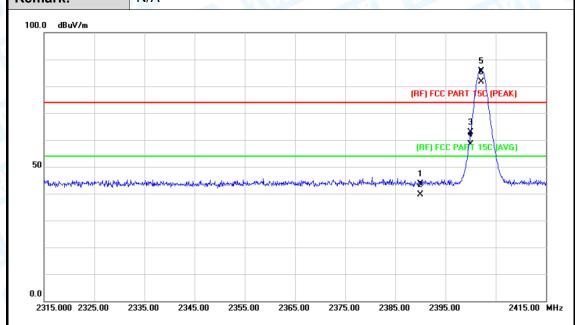
Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=1 kHz with Peak Detector for Average Values.

Test data please refer the following pages.

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(1) Radiation Test

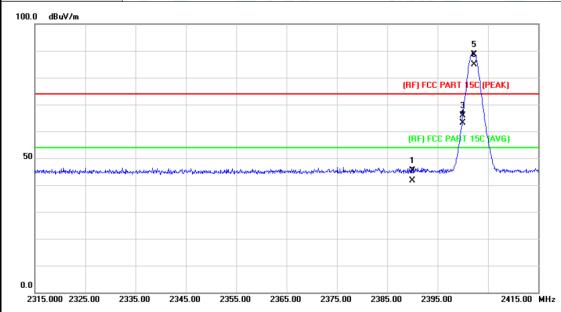
EUT:	MID	Model:	MID1008-L
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 HZ		
Ant. Pol.	Horizontal	COURSE OF THE PERSON OF THE PE	7 1111
Test Mode:	BLE Mode TX 2402 MHz		
Remark:	N/A		



No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	42.75	0.77	43.52	74.00	-30.48	peak
2		2390.000	38.87	0.77	39.64	54.00	-14.36	AVG
3		2400.000	62.03	0.81	62.84	Fundamental	Frequency	peak
4	Χ	2400.000	57.53	0.81	58.34	Fundamental	Frequency	AVG
5	Χ	2402.200	84.72	0.82	85.54	74.00	11.54	peak
6	*	2402.200	80.82	0.82	81.64	54.00	27.64	AVG

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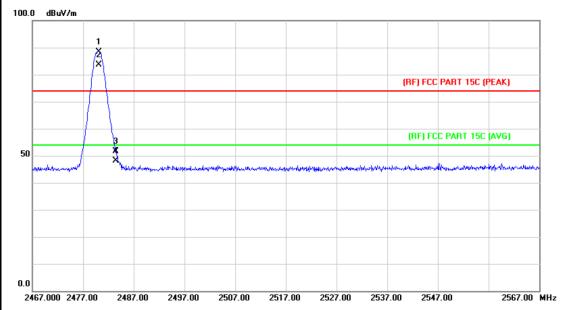
EUT:	MID	Model:	MID1008-L					
Temperature:	25 ℃	Relative Humidity:	55%					
Test Voltage:	AC 120V/60 HZ	AC 120V/60 HZ						
Ant. Pol.	Vertical							
Test Mode:	BLE Mode TX 2480 MHz	BLE Mode TX 2480 MHz						
Remark:	N/A	The same						



No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	44.62	0.77	45.39	74.00	-28.61	peak
2		2390.000	40.74	0.77	41.51	54.00	-12.49	AVG
3		2400.000	64.97	0.81	65.78	Fundamental	Frequency	peak
4	Χ	2400.000	62.23	0.81	63.04	Fundamental	Frequency	AVG
5	Χ	2402.300	87.89	0.82	88.71	74.00	14.71	peak
6	*	2402.300	84.01	0.82	84.83	54.00	30.83	AVG

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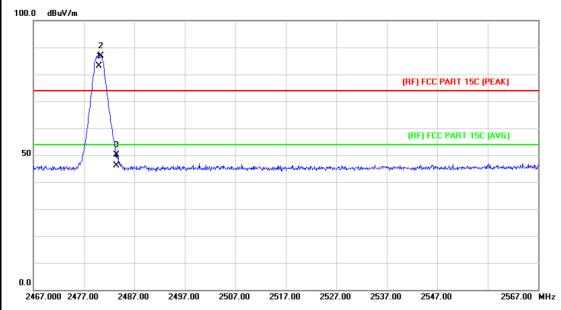
EUT:	MID	Model:	MID1008-L	
Temperature:	25 ℃	Relative Humidity:	55%	
Test Voltage:	AC 120V/60 HZ			
Ant. Pol.	Horizontal			
Test Mode:	BLE Mode TX 2480 MHz			
Remark:	N/A			



No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	O∨er	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	Х	2480.200	87.34	1.15	88.49	Fundamental	Frequency	peak
2	*	2480.200	82.49	1.15	83.64	Fundamental	Frequency	AVG
3		2483.500	50.51	1.17	51.68	74.00	-22.32	peak
4		2483.500	46.95	1.17	48.12	54.00	-5.88	AVG

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EUT:	MID	Model:	MID1008-L				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 HZ	AC 120V/60 HZ					
Ant. Pol. Vertical							
Test Mode:	BLE Mode TX 2480 MHz						
Remark: N/A							
100.0 dBuV/m							
,K							



No	o. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	O∨er	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2480.000	82.00	1.15	83.15	Fundamental	Frequency	AVG
2	Х	2480.400	85.81	1.15	86.96	Fundamental	Frequency	peak
3		2483.500	49.06	1.17	50.23	74.00	-23.77	peak
4		2483.500	45.04	1.17	46.21	54.00	-7.79	AVG

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7. Antenna Requirement

7.1 Standard Requirement

7.1.1 Standard FCC Part 15.203

7.1.2 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.

7.2 Antenna Connected Construction

The directional gains of the antenna used for transmitting is 0 dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

The EUT antenna is a FPC Antenna. It complies with the standard requirement.

	Antenna Type
0.00	▶ Permanent attached antenna
	□ Unique connector antenna
Ellin.	□ Professional installation antenna