

Shenzhen Toby Technology Co., Ltd.

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FCC Radio Test Report FCC ID: XMF-MID8001

FCC Class II Permissive Change

Report No. : TB-FCC145094

Applicant: Lightcomm Technology Co., Ltd.

Equipment Under Test (EUT)

EUT Name : MID

Model No. : MID8001-IB

Series Model No. : DL801W, DL808W

Brand Name : N/A

Receipt Date : 2015-08-12

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

Issue Date : 2015-08-18

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

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





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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	n.	MID	
Models No.		MID8001-IB, DL801W, D	L808W
Model Difference	1		n the same PCB layout, interior structure and ly difference is model name for commercial
	N.	Operation Frequency: 802.11b/g/n(HT20): 2412 802.11n(HT40): 2422MH Number of Channel:	
		Transcr of Chamiles.	802.11n(HT40): 7 channels see note(3)
THE RELIEF		RF Output Power:	802.11b: 9.09 dBm 802.11g: 8.95dBm 802.11n (HT20): 8.89dBm
Product Description	:		802.11n (HT40): 8.97dBm
		Antenna Gain:	0 dBi (FPC Antenna)
		Modulation Type:	802.11b: DSSS (CCK, QPSK, BPSK) 802.11g: OFDM 802.11n: OFDM
		Bit Rate of Transmitter:	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6 Mbps 802.11n:up to 150Mbps
Power Supply		DC power supplied by AC DC Voltage supplied from	
Power Rating	5	Input: AC 100~240V 50/6 Output: 5V 2A. DC 3.7V from 4500mA Li	
Connecting I/O Port(S)	ŀ	Please refer to the User's	



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Note:

(1) This Test Report is FCC Part 15.247 for 802.11b/g/n, 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:

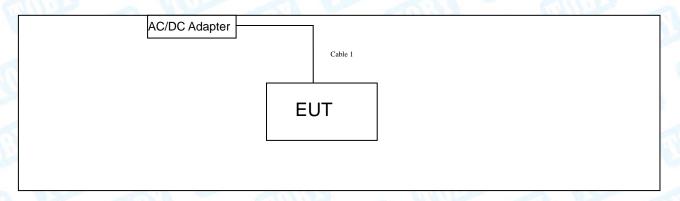
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	05	2432	09	2452
02	2417	06	2437	10	2457
03	2422	07	2442	11	2462
04	2427	08	2447		

Note:CH 01~CH 11 for 802.11b/g/n(HT20)

CH 03~CH 09 for 802.11n(HT40)

1.3 Block Diagram Showing the Configuration of System Tested

TX Mode



1.4 Description of Support Units

	ALMIN			
	Eq	uipment Informatio	on	
Name	Model	S/N	Manufacturer	Used "√"
1		1	/	1
		Cable Information		
Number	Shielded Type	Ferrite Core	Length	Note
Cable 1	YES	NO	1.1M	Accessories



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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 B Mode

For Radiated Test				
Final Test Mode	Description			
Mode 3	TX Mode B Mode Channel 01/06/11			
Mode 4	TX Mode G Mode Channel 01/06/11			
Mode 5	TX Mode N(HT20) Mode Channel 01/06/11			
Mode 6	TX Mode N(HT40) Mode Channel 03/06/09			

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:

802.11b Mode: CCK (1 Mbps) 802.11g Mode: OFDM (6 Mbps)

802.11n (HT20) Mode: MCS 0 (6.5 Mbps) 802.11n (HT40) Mode: MCS 0 (13 Mbps)

- (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 WLAN.



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Test Software Version	Realtek 11n 87	23B SDIO WLAN MP Diagno 31.06.20140627	stic Program
Channel	CH 01	CH 06	CH 11
IEEE 802.11b DSSS	29	28	23
IEEE 802.11g OFDM	36	35	34
IEEE 802.11n (HT20)	36	35	33
Channel	CH 03	CH 06	CH 09
IEEE 802.11n (HT40)	38	37	36

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
Radiated Emission	Level Accuracy:	±4.60 dB
Radiated Effilssion	9kHz to 30 MHz	±4.60 dB
Radiated Emission	Level Accuracy:	±4.40 dB
Radiated Effilssion	30MHz to 1000 MHz	±4.40 db
Radiated Emission	Level Accuracy:	±4.20 dB
Naulateu Elliission	Above 1000MHz	±4.20 UD



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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	t 15 Subpart C(15.247)/ RSS 247	' Issue 1	
Standa	rd Section	Tool How	ludama ant	2-12
FCC	IC	Test Item	Judgment	Remark
15.203	1	Antenna Requirement	PASS	N/A
15.207	RSS-GEN 7.2.4	Conducted Emission	PASS	N/A
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	st			
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
					Cal. Due
Spectrum	Agilont	E4407B	MV4E40G4EG	Son 01 2014	
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

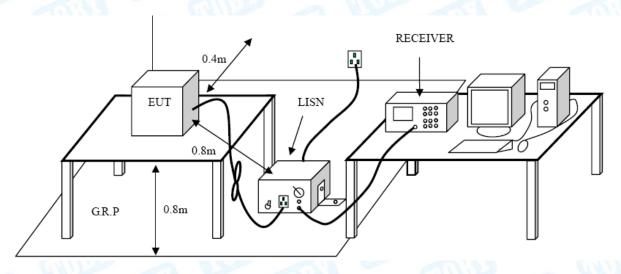
Conducted Emission Test Limit

Eroguanov	Maximum RF Line 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		Mo	odel Name :		MID8001-	IB
Temperature:	: 25 ℃		Re	lative Humi	idity:	55%	R. M.
Test Voltage:	AC 12	20V/60 Hz	100	11	67	TI STATE OF THE ST	
Terminal:	Line		MAGE		1 6		MILL
Test Mode:	AC C	harging with	TX B Mode	e (\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		0	HILL
Remark:	Only	worse case	is reported	No.	CINI)	33	
90.0 dBuV						QP:	
40	Ž V V V V V V V V V V V V V V V V V V V	Marting Ameni	Professor of the professor of the second sec	material production of the state of the stat	April appropriate to the first of the first	AVG:	pea
0.150	0.5		(MHz)	5			30.000
	0.5	Reading Level	(MHz) Correct Factor	Measure- ment	Limit	Over	30.000
0.150		_	Correct	Measure-	Limit	Over	30.000 Detector
0.150	Freq.	Level	Correct Factor	Measure- ment	dBu∨		
0.150 No. Mk.	Freq.	Level dBuV	Correct Factor	Measure- ment	dBu∀ 64.57	dB	Detector
0.150 No. Mk.	Freq. MHz 0.1780	dBu V 43.94	Correct Factor dB 9.98	Measure- ment dBuV 53.92	dBuV 64.57 54.57	dB -10.65	Detector QP
0.150 No. Mk.	Freq. MHz 0.1780 0.1780	dBuV 43.94 29.14	Correct Factor dB 9.98 9.98	Measurement dBuV 53.92 39.12	dBu√ 64.57 54.57 62.89	dB -10.65 -15.45	Detector QP AVG
0.150 No. Mk. 1 2 3	Freq. MHz 0.1780 0.1780 0.2180	dBuV 43.94 29.14 42.84	Correct Factor dB 9.98 9.98 10.02	Measure- ment dBuV 53.92 39.12 52.86	dBu√ 64.57 54.57 62.89	dB -10.65 -15.45 -10.03 -16.39	Detector QP AVG QP
0.150 No. Mk. 1 2 3 4	Freq. MHz 0.1780 0.1780 0.2180 0.2180	dBuV 43.94 29.14 42.84 26.48	Correct Factor dB 9.98 9.98 10.02	Measure- ment dBuV 53.92 39.12 52.86 36.50	dBuV 64.57 54.57 62.89 52.89	dB -10.65 -15.45 -10.03 -16.39 -9.77	Detector QP AVG QP AVG
0.150 No. Mk. 1 2 3 4 5	Freq. MHz 0.1780 0.1780 0.2180 0.2180 0.2540	dBuV 43.94 29.14 42.84 26.48 41.83	Correct Factor 9.98 9.98 10.02 10.02	Measurement dBuV 53.92 39.12 52.86 36.50 51.85	dBuV 64.57 54.57 62.89 52.89 61.62	dB -10.65 -15.45 -10.03 -16.39 -9.77 -16.09	Detector QP AVG QP AVG
0.150 No. Mk. 1 2 3 4 5 6	Freq. MHz 0.1780 0.1780 0.2180 0.2180 0.2540 0.2540	dBuV 43.94 29.14 42.84 26.48 41.83 25.51	Correct Factor 9.98 9.98 10.02 10.02 10.02	Measurement dBuV 53.92 39.12 52.86 36.50 51.85 35.53	dBuV 64.57 54.57 62.89 52.89 61.62 51.62 59.55	dB -10.65 -15.45 -10.03 -16.39 -9.77 -16.09	Detector QP AVG QP AVG QP AVG
0.150 No. Mk. 1 2 3 4 5 6 7 *	Freq. MHz 0.1780 0.1780 0.2180 0.2180 0.2540 0.2540 0.3260	Hevel dBuV 43.94 29.14 42.84 26.48 41.83 25.51 40.04	Correct Factor 9.98 9.98 10.02 10.02 10.02 10.02	Measurement dBuV 53.92 39.12 52.86 36.50 51.85 35.53 50.06	dBuV 64.57 54.57 62.89 52.89 61.62 51.62 59.55 49.55	dB -10.65 -15.45 -10.03 -16.39 -9.77 -16.09 -9.49	Detector QP AVG QP AVG QP AVG
0.150 No. Mk. 1 2 3 4 5 6 7 *	Freq. MHz 0.1780 0.1780 0.2180 0.2180 0.2540 0.2540 0.3260 0.3260	Hevel dBuV 43.94 29.14 42.84 26.48 41.83 25.51 40.04 26.49	Correct Factor 9.98 9.98 10.02 10.02 10.02 10.02 10.02 10.02	Measurement dBuV 53.92 39.12 52.86 36.50 51.85 35.53 50.06 36.51	dBuV 64.57 54.57 62.89 52.89 61.62 51.62 59.55 49.55	-10.65 -15.45 -10.03 -16.39 -9.77 -16.09 -9.49 -13.04	Detector QP AVG QP AVG QP AVG AVG
0.150 No. Mk. 1 2 3 4 5 6 7 * 8 9	Freq. MHz 0.1780 0.1780 0.2180 0.2180 0.2540 0.2540 0.3260 0.3260 0.9260	Level dBuV 43.94 29.14 42.84 26.48 41.83 25.51 40.04 26.49 31.66	Correct Factor 9.98 9.98 10.02 10.02 10.02 10.02 10.02 10.02 10.02	Measurement dBuV 53.92 39.12 52.86 36.50 51.85 35.53 50.06 36.51 41.73	dBuV 64.57 54.57 62.89 52.89 61.62 51.62 59.55 49.55 56.00 46.00	dB -10.65 -15.45 -10.03 -16.39 -9.77 -16.09 -9.49 -13.04 -14.27	Detector QP AVG QP AVG QP AVG QP AVG



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	MID		Mo	del Name :	N	/ID8001-	IB
Temperature:	25 °C		Re	lative Humic	dity: 5	55%	Alle
Test Voltage:	AC 1	20V/60 Hz		1	Cal	11:30	
Terminal:	Neuti	ral	A KOL		1		
Test Mode:	AC C	harging with	TX B Mode			O V	N. C.
Remark:	Only	worse case	is reported	Market Market		13	
90.0 dBuV							
						QP: AVG:	
						Avu.	
XXX	×						
	MANAGAN	ላስ ስብበላ ከመውለ መጀብመሉ	navia	and the same of th			
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<u> </u>	11 2 11 11 11 11	I A AMA AMA AMA	da .		, ,,,,,,,,	Just Hoop white cont	bla
			properties	proprietalist of bound of superior			pea
ΙΛΛΛΛ	\				a had the water when the same	Made Market Mark	n
							AVE
-10 0.150	0.5		(MHz)	5			30.000
0.130	0.5		(MITZ)	9			30.000
No Mk	Eroa	Reading	Correct	Measure-	Limit	Over	
No. Mk.	Freq.	Level	Factor	ment	Limit	Over	Dotoctor
	MHz	Level dBuV	Factor dB	ment dBuV	dBu∀	dB	
1	MHz 0.1819	dBu V 42.43	Factor dB 9.98	ment dBuV 52.41	dBu∀ 64.39	dB -11.98	QP
1 2	0.1819 0.1819	dBuV 42.43 26.05	9.98 9.98	ment dBuV 52.41 36.03	dBuV 64.39 54.39	dB -11.98 -18.36	AVG
1 2 3	MHz 0.1819 0.1819 0.2180	dBuV 42.43 26.05 41.02	9.98 9.02	ment dBuV 52.41 36.03 51.04	dBuV 64.39 54.39 62.89	dB -11.98 -18.36 -11.85	QP AVG QP
1 2 3 4	0.1819 0.1819 0.2180 0.2180	dBuV 42.43 26.05 41.02 24.34	9.98 9.98 10.02	ment dBuV 52.41 36.03 51.04 34.36	dBuV 64.39 54.39 62.89 52.89	dB -11.98 -18.36 -11.85 -18.53	QP AVG QP AVG
1 2 3 4 5	0.1819 0.1819 0.2180 0.2180 0.2540	dBuV 42.43 26.05 41.02 24.34 39.91	9.98 9.98 10.02 10.02	ment dBuV 52.41 36.03 51.04 34.36 49.93	64.39 54.39 62.89 52.89 61.62	dB -11.98 -18.36 -11.85 -18.53 -11.69	QP AVG QP AVG
1 2 3 4 5 6	MHz 0.1819 0.1819 0.2180 0.2180 0.2540 0.2540	dBuV 42.43 26.05 41.02 24.34 39.91 23.65	9.98 9.98 10.02 10.02 10.02	ment dBuV 52.41 36.03 51.04 34.36 49.93 33.67	dBuV 64.39 54.39 62.89 52.89 61.62 51.62	dB -11.98 -18.36 -11.85 -18.53 -11.69 -17.95	QP AVG QP AVG
1 2 3 4 5 6 7 *	0.1819 0.1819 0.2180 0.2180 0.2540 0.2540 0.3260	Level dBuV 42.43 26.05 41.02 24.34 39.91 23.65 39.68	9.98 9.98 10.02 10.02 10.02 10.02	ment dBuV 52.41 36.03 51.04 34.36 49.93 33.67 49.70	dBuV 64.39 54.39 62.89 52.89 61.62 51.62 59.55	dB -11.98 -18.36 -11.85 -18.53 -11.69 -17.95 -9.85	QP AVG QP AVG QP AVG
1 2 3 4 5 6 7 * 8	MHz 0.1819 0.1819 0.2180 0.2180 0.2540 0.2540 0.3260 0.3260	Level dBuV 42.43 26.05 41.02 24.34 39.91 23.65 39.68 25.81	9.98 9.98 10.02 10.02 10.02 10.02 10.02	ment dBuV 52.41 36.03 51.04 34.36 49.93 33.67 49.70 35.83	dBuV 64.39 54.39 62.89 52.89 61.62 51.62 59.55 49.55	dB -11.98 -18.36 -11.85 -18.53 -11.69 -17.95 -9.85 -13.72	QP AVG QP AVG QP AVG
1 2 3 4 5 6 7 * 8 9	MHz 0.1819 0.1819 0.2180 0.2180 0.2540 0.2540 0.3260 0.3260 0.3899	Level dBuV 42.43 26.05 41.02 24.34 39.91 23.65 39.68 25.81 35.50	9.98 9.98 10.02 10.02 10.02 10.02 10.02 10.02	ment dBuV 52.41 36.03 51.04 34.36 49.93 33.67 49.70 35.83 45.52	64.39 54.39 62.89 52.89 61.62 51.62 59.55 49.55 58.06	dB -11.98 -18.36 -11.85 -18.53 -11.69 -17.95 -9.85 -13.72 -12.54	QP AVG QP AVG QP AVG QP
1 2 3 4 5 6 7 * 8 9 10	MHz 0.1819 0.1819 0.2180 0.2180 0.2540 0.2540 0.3260 0.3260 0.3899 0.3899	Level dBuV 42.43 26.05 41.02 24.34 39.91 23.65 39.68 25.81 35.50 22.94	Factor 9.98 9.98 10.02 10.02 10.02 10.02 10.02 10.02 10.02 10.02	ment dBuV 52.41 36.03 51.04 34.36 49.93 33.67 49.70 35.83 45.52 32.96	64.39 54.39 62.89 52.89 61.62 51.62 59.55 49.55 58.06 48.06	dB -11.98 -18.36 -11.85 -18.53 -11.69 -17.95 -9.85 -13.72 -12.54 -15.10	QP AVG QP AVG QP AVG
1 2 3 4 5 6 7 * 8 9	MHz 0.1819 0.1819 0.2180 0.2180 0.2540 0.2540 0.3260 0.3260 0.3899	Level dBuV 42.43 26.05 41.02 24.34 39.91 23.65 39.68 25.81 35.50	9.98 9.98 10.02 10.02 10.02 10.02 10.02 10.02	ment dBuV 52.41 36.03 51.04 34.36 49.93 33.67 49.70 35.83 45.52	64.39 54.39 62.89 52.89 61.62 51.62 59.55 49.55 58.06 48.06	dB -11.98 -18.36 -11.85 -18.53 -11.69 -17.95 -9.85 -13.72 -12.54	QP AVG QP AVG QP AVG QP



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EUT:	MID		IVIC	odel Name :	l l	MID8001-	·IB
Temperature:	25 ℃	Carry.	Re	lative Humic	dity:	55%	Alle
Test Voltage:	AC 24	10V/60 Hz			63	11:35	
Terminal:	Line		ARIL		1 10		TO THE
Test Mode:	AC C	harging with	TX B Mode	e (MI)	2	- W	MAL
Remark:	Only	worse case	is reported	200		13	
90.0 dBuV			/^\/\\ ,^\\\	April and a second	and the same	QP: AVG:	pe AV
0.150	0.5		(MHz)	5			30.000
		Reading Level	Correct	Measure- ment	Limit	Over	30.000
0.150	Freq.	Reading Level		Measure-	Limit	Over	30.000 Detector
0.150 No. Mk.	Freq.	Level	Correct Factor	Measure- ment			
0.150 No. Mk.	Freq.	Level dBuV	Correct Factor	Measure- ment	dBu∨ 64.76	dB	Detector
0.150 No. Mk.	Freq. MHz 0.1740	dBuV 47.65	Correct Factor dB 10.12	Measure- ment dBuV 57.77	dBu∨ 64.76	dB -6.99	Detector
0.150 No. Mk.	Freq. MHz 0.1740 0.1740	dBuV 47.65 32.42	Correct Factor dB 10.12 10.12	Measure- ment dBuV 57.77 42.54	dBu√ 64.76 54.76 63.36	dB -6.99 -12.22	Detector QP AVG
0.150 No. Mk. 1 2 3	Freq. MHz 0.1740 0.1740 0.2060	dBuV 47.65 32.42 44.10	Correct Factor dB 10.12 10.12	Measure- ment dBuV 57.77 42.54 54.22	dBu√ 64.76 54.76 63.36	dB -6.99 -12.22 -9.14 -13.02	Detector QP AVG
0.150 No. Mk. 1 2 3 4	Freq. MHz 0.1740 0.1740 0.2060 0.2060	dBuV 47.65 32.42 44.10 30.22	Correct Factor dB 10.12 10.12 10.12	Measure- ment dBuV 57.77 42.54 54.22 40.34	dBuV 64.76 54.76 63.36 53.36 62.02	dB -6.99 -12.22 -9.14 -13.02	Detector QP AVG QP AVG
0.150 No. Mk. 1 2 3 4 5	Freq. MHz 0.1740 0.1740 0.2060 0.2060 0.2420	dBuV 47.65 32.42 44.10 30.22 42.25	Correct Factor dB 10.12 10.12 10.12 10.12	Measurement dBuV 57.77 42.54 54.22 40.34 52.36	dBuV 64.76 54.76 63.36 53.36 62.02	dB -6.99 -12.22 -9.14 -13.02 -9.66	Detector QP AVG QP AVG
0.150 No. Mk. 1 2 3 4 5	Freq. MHz 0.1740 0.1740 0.2060 0.2060 0.2420 0.2420	dBuV 47.65 32.42 44.10 30.22 42.25 31.60	Correct Factor dB 10.12 10.12 10.12 10.12 10.11 10.11	Measurement dBuV 57.77 42.54 54.22 40.34 52.36 41.71	dBuV 64.76 54.76 63.36 53.36 62.02 52.02	dB -6.99 -12.22 -9.14 -13.02 -9.66 -10.31	Detector QP AVG QP AVG QP AVG
0.150 No. Mk. 1 2 3 4 5 6 7	Freq. MHz 0.1740 0.1740 0.2060 0.2060 0.2420 0.2420 0.3140	dBuV 47.65 32.42 44.10 30.22 42.25 31.60 41.77	Correct Factor dB 10.12 10.12 10.12 10.12 10.11 10.11	Measurement dBuV 57.77 42.54 54.22 40.34 52.36 41.71 51.85	dBuV 64.76 54.76 63.36 53.36 62.02 52.02 59.86	dB -6.99 -12.22 -9.14 -13.02 -9.66 -10.31 -8.01	Detector QP AVG QP AVG QP AVG
0.150 No. Mk. 1 2 3 4 5 6 7 8 *	Freq. MHz 0.1740 0.1740 0.2060 0.2060 0.2420 0.2420 0.3140 0.3140	dBuV 47.65 32.42 44.10 30.22 42.25 31.60 41.77 33.79	Correct Factor dB 10.12 10.12 10.12 10.12 10.11 10.11 10.08 10.08	Measurement dBuV 57.77 42.54 54.22 40.34 52.36 41.71 51.85 43.87	dBuV 64.76 54.76 63.36 53.36 62.02 52.02 59.86 49.86 56.00	-6.99 -12.22 -9.14 -13.02 -9.66 -10.31 -8.01 -5.99	Detector QP AVG QP AVG QP AVG QP AVG
No. Mk. 1 2 3 4 5 6 7 8 *	Freq. MHz 0.1740 0.1740 0.2060 0.2060 0.2420 0.2420 0.3140 0.3140 0.8380	dBuV 47.65 32.42 44.10 30.22 42.25 31.60 41.77 33.79 36.32	Correct Factor dB 10.12 10.12 10.12 10.12 10.11 10.11 10.08 10.08	Measurement dBuV 57.77 42.54 54.22 40.34 52.36 41.71 51.85 43.87 46.40	dBuV 64.76 54.76 63.36 53.36 62.02 52.02 59.86 49.86 56.00 46.00	-6.99 -12.22 -9.14 -13.02 -9.66 -10.31 -8.01 -5.99 -9.60	Detector QP AVG QP AVG QP AVG





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EUT:	MID	Model Name :	MID8001-IB
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 240V/60 Hz		TO SECURE
Terminal:	Neutral		
Test Mode:	AC Charging with TX B	Mode	A WILL
Remark:	Only worse case is rep	orted	1:33
90.0 dBuV		Marine Marine	QP: — AVG: — Dea
N A A A A A A A A A A A A A A A A A A A	"		AVG

		- ·					-
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	O∨er	
	MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector
1	0.1740	46.16	9.97	56.13	64.76	-8.63	QP
2	0.1740	32.98	9.97	42.95	54.76	-11.81	AVG
3	0.2100	43.34	10.02	53.36	63.20	-9.84	QP
4	0.2100	30.82	10.02	40.84	53.20	-12.36	AVG
5	0.2420	40.98	10.02	51.00	62.02	-11.02	QP
6	0.2420	31.59	10.02	41.61	52.02	-10.41	AVG
7	0.3180	41.03	10.02	51.05	59.76	-8.71	QP
8	0.3180	29.81	10.02	39.83	49.76	-9.93	AVG
9	0.7980	38.21	10.10	48.31	56.00	-7.69	QP
10 *	0.7980	29.57	10.10	39.67	46.00	-6.33	AVG
11	1.1539	37.21	10.06	47.27	56.00	-8.73	QP
12	1.1539	25.65	10.06	35.71	46.00	-10.29	AVG

^{*:}Maximum data x:Over limit !:over margin



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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

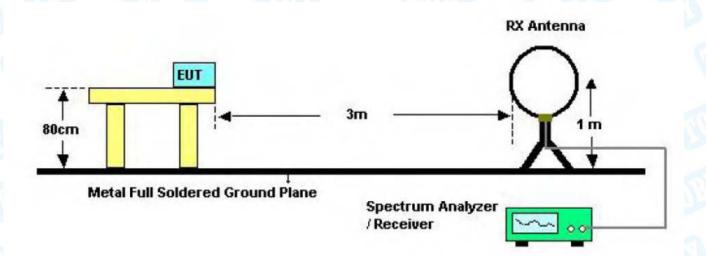
Note:

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

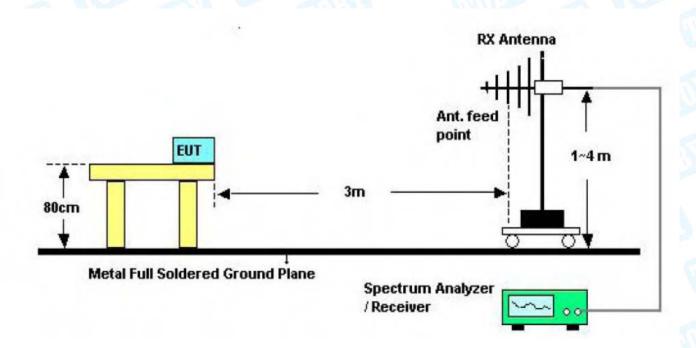


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5.2 Test Setup



Below 30MHz Test Setup

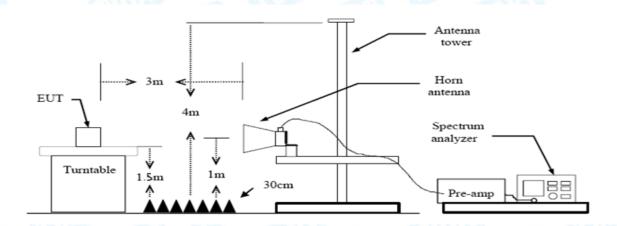


Below 1000MHz Test Setup





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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=10 Hz with Peak Detector for Average Values.

Test data please refer the following pages.



20 of 69 Page:

EUT:			MID)				Model:		MIE	0080	1-IB		
Tempe	eratur	e:	25	$^{\circ}$ C	6	W.	33	Relative I	Humidity:	55%	6			
Test V	/oltage	e:	AC	120	V/6	0 Hz			(Min	133	>		A.
Ant. P	Pol.		Hor	izon	ıtal		1130			62		4		
Test N	Mode:		TX	ВМ	ode	2412	2MHz		100		. 1	1	Made	
Rema	ırk:		Only	y wc	orse	case	is report	ed	6.1	4:17	3			1
80.0	dBuV/m													_
								3 4	(RI	FJFCC 15C		diation rgin -6		
30 ./w	Wayne Market Mar	stadens served part	\W\.JP\	wV	XX.	June	2 X John Mayer		bander berker de	X	Lund) all market	MM	N
	*/	something of the sound of the s		70 8	0	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	2 X X Mhiyiri		300 40	Lund	600	700	100	0.000
-20 30.000	*/	50		F		ding	A Market	ct Measu	ıre-	0 500	600 OVe		1000	0.000
-20 30.000	0 40	50	60 ;	F	Rea Lev		(MHz)	ct Measu	ır e- t Lim	0 500		er	1000	
-20 30.000	0 40	. Fr	60 : eq. ⊢z	F	Rea Lev	vel	(MHz) Correct Facto	ct Measu or men	ure- t Lim /m dBu	o 500 nit	Ove	er		ctor
-20 30.000	0 40	. Fr	eq.	F	Rea Lev dB	vel av	Correc Facto	ct Measure men	ure- t Lim /m dBu	0 500 nit	Ove	er 92	Dete	ctor ak
-20 30.000 NC	0 40	. Fro	eq.	F	Rea Lev dB 52.	vel av .27	Correct Factor dB/m -22.69	or Measure or men dBuV. 29.5	ire- it Lim /m dBu 58 43	0 500 nit	0∨e dB -13.	er 92 11	Detec	ctor ak ak

-12.41

-7.08

46.00

46.00

34.29

36.23

-11.71

-9.77

peak

peak

*:Maximum data x:Over limit !:over margin

451.1349

750.1082

5

6

Emission Level= Read Level+ Correct Factor

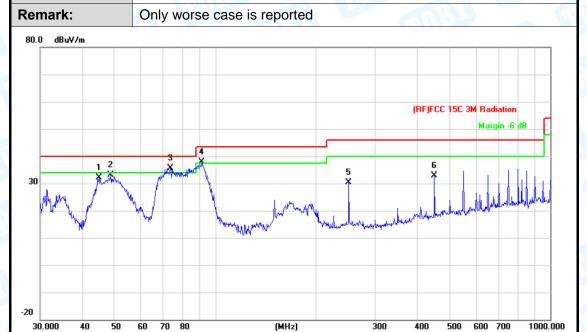
46.70

43.31



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A LIVE			
EUT:	MID	Model:	MID8001-IB
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz	(1) TO (1)	TO SECURE
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHz	Call De	THE PARTY OF



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		44.9004	54.31	-22.23	32.08	40.00	-7.92	peak
2		48.6719	56.87	-23.84	33.03	40.00	-6.97	peak
3	*	73.3593	59.05	-23.50	35.55	40.00	-4.45	peak
4	ļ	91.1744	60.36	-22.59	37.77	43.50	-5.73	peak
5		250.3010	48.43	-18.11	30.32	46.00	-15.68	peak
6		451.1349	45.27	-12.41	32.86	46.00	-13.14	peak

^{*:}Maximum data x:Over limit !:over margin



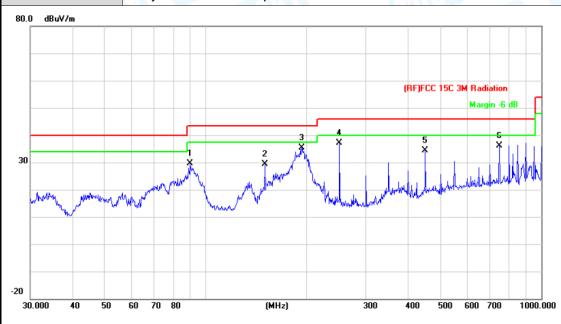
Report No.: TB-FCC145094
Page: 22 of 69

EUT:	MID	Model:	MID8001-IB
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		THE STATE OF THE S
Ant Pol	Horizontal	MILL TO THE PARTY OF THE PARTY	

Remark: Only worse case is reported

TX B Mode 2412MHz

Test Mode:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	O∨er	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		89.9047	52.27	-22.69	29.58	43.50	-13.92	peak
2		150.0107	50.56	-21.17	29.39	43.50	-14.11	peak
3	*	193.0945	56.25	-20.75	35.50	43.50	-8.00	peak
4		250.3010	55.29	-18.11	37.18	46.00	-8.82	peak
5		451.1349	46.70	-12.41	34.29	46.00	-11.71	peak
6		750.1082	43.31	-7.08	36.23	46.00	-9.77	peak

^{*:}Maximum data x:Over limit !:over margin



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		MID		Mo	odel:	MID8001-IB		
empera	iture:	25 ℃	Carr's	Re	elative Hum	idity:	55%	
est Volt	tage:	AC 12	0V/60 Hz	Z				
nt. Pol.		Horizo	ntal	Alson.		1 6		
est Mod	de:	TXBI	Mode 2437	MHz	CONTROL OF			
emark:		Only v	vorse case	is reported	The same	6111	133	
80.0 dBuV	7111					(RF)FC	C 15C 3M Radiat	
30	<u></u>	and analytical	www.	2 3 M. M. M	Allendar Marchael	5 * 6 *	William of the Maries	whomethe
30.000 No	40 50		Reading	(MHz) Correct	Measure-	400 Limit	500 600 70 Over	0 1000.00
	Mk.	Freq.		Correct Factor		400 Limit	Over	
30.000	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment dBuV/m	Limit dBuV/	Over	Detector
No.	Mk.	Freq. MHz 1.2762	Reading Level dBuV 48.76	Correct Factor dB/m -22.74	Measure- ment dBuV/m 26.02	Limit dBuV//	Over m dB 0 -17.48	Detector B peak
No. 1	Mk. 89	Freq. MHz 0.2762 0.9088	Reading Level dBuV 48.76 47.31	Correct Factor dB/m -22.74 -20.57	Measure- ment dBuV/m 26.02 26.74	Limit dBuV// 43.5/ 43.5/	Over m dB 0 -17.48 0 -16.76	Detector B peak B peak
No. 1 2 3	Mk. 89 160 175	Freq. MHz 0.2762 0.9088 5.0367	Reading Level dBuV 48.76 47.31 48.40	Correct Factor dB/m -22.74 -20.57 -20.88	Measure- ment dBuV/m 26.02 26.74 27.52	Limit dBuV// 43.5/ 43.5/ 43.5/	Over m dB 0 -17.48 0 -16.76 0 -15.98	Detector peak peak peak peak
No. 1 2 3 4	Mk. 89 160 178 247	Freq. MHz 0.2762 0.9088 5.0367 7.6819	Reading Level dBuV 48.76 47.31 48.40 46.22	Correct Factor dB/m -22.74 -20.57 -20.88 -18.23	Measurement dBuV/m 26.02 26.74 27.52 27.99	Limit dBu V// 43.5/ 43.5/ 43.5/ 46.0/	Over m dB 0 -17.48 0 -16.76 0 -15.98 0 -18.01	Detector peak peak peak peak
No. 1 2 3 4	Mk. 89 160 175 247	Freq. MHz 0.2762 0.9088 5.0367	Reading Level dBuV 48.76 47.31 48.40	Correct Factor dB/m -22.74 -20.57 -20.88	Measure- ment dBuV/m 26.02 26.74 27.52	Limit dBuV// 43.5/ 43.5/ 43.5/	Over m dB 0 -17.48 0 -16.76 0 -15.98 0 -18.01 0 -12.50	Detector peak peak peak peak peak

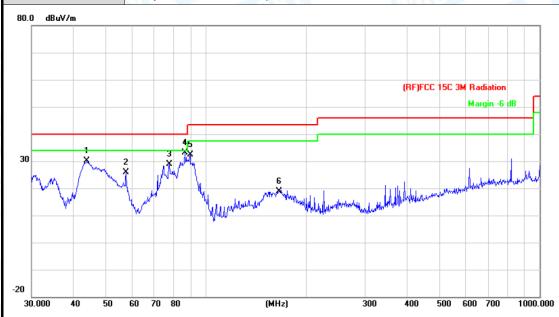
TB-RF-074-1.0



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EUT:	MID	Model:	MID8001-IB
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2437MHz		ENG

Remark: Only worse case is reported



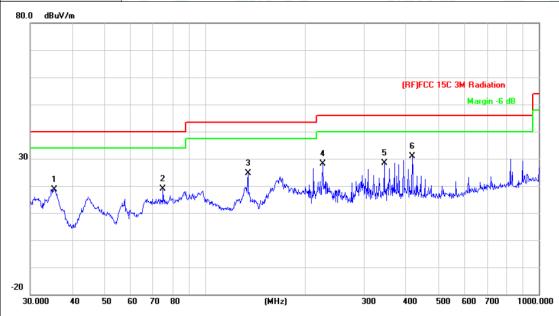
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		43.9658	52.03	-21.84	30.19	40.00	-9.81	peak
2		57.5938	50.30	-24.50	25.80	40.00	-14.20	peak
3		77.5927	52.35	-23.36	28.99	40.00	-11.01	peak
4	*	86.5027	56.00	-22.89	33.11	40.00	-6.89	peak
5		89.5899	55.08	-22.71	32.37	43.50	-11.13	peak
6		165.4866	39.72	-20.88	18.84	43.50	-24.66	peak

^{*:}Maximum data x:Over limit !:over margin



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EUT:	MID	Model:	MID8001-IB
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz	01 6	1000
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2462MHz		
Remark:	Only worse case is repor	ted	1:33
	•		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		35.3750	36.04	-17.29	18.75	40.00	-21.25	peak
2		74.9191	42.33	-23.45	18.88	40.00	-21.12	peak
3		134.5592	46.66	-22.09	24.57	43.50	-18.93	peak
4		225.3079	47.51	-19.30	28.21	46.00	-17.79	peak
5		344.3854	43.39	-14.96	28.43	46.00	-17.57	peak
6	*	417.6409	43.81	-12.89	30.92	46.00	-15.08	peak

^{*:}Maximum data x:Over limit !:over margin



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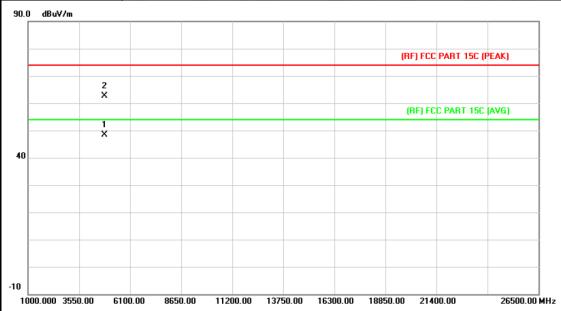


EUT:	MID		IV	lodel:		MID8001-IE	
Temperature:	25 ℃		R	elative Humi	dity:	55%	F.B.
Test Voltage:	AC 12	20V/60 Hz		811	(Fil	41.25	
Ant. Pol.	Vertic	al	ASIL		1 6		ATT.
Test Mode:	TX B	Mode 2462	2MHz	CHILD:	2		A STATE OF THE PARTY OF THE PAR
Remark:	Only v	worse case	is reported		CINI)	:33	
80.0 dBuV/m							
					(RF)FC0	C 15C 3M Radiatio	
						Margin -(o dB
		4 5					
30	2 3 X X		6 8				
	w.]	por 4		4 1.		James May Mary Mary	phyddisophydraega ei
3.17	n Ottob	2 III	. 714.7	MILL L	- A COLUMN PROPERTY OF	Magherina	
W	- V ***	' \ "\ukulu	No although	Mary Mary Hilly Land and the St.	Market		
Ψ.	A man	" _{Uplu}	Uhr Mhair	Majahahjulkunaman	Manager		
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	50 70	N _W W	(MHa)				1000 00
30.000 40 50	60 70	80	(MHz)	300	400	500 600 700	1000.00
30.000 40 50		Reading	Correct	300 Measure-	400	500 600 700	1000.00
30.000 40 50 No. Mk. Fr	req.	Reading Level		Measure- ment	400 Limit	500 600 700 Over	
No. Mk. F	r eq . Hz	Reading Level	Correct Factor	300 Measure-	400	Over	1000.00
No. Mk. F	req.	Reading Level	Correct Factor	Measure- ment	400 Limit	Over	
No. Mk. Fr	r eq . Hz	Reading Level	Correct Factor	Measure- ment dBuV/m	400 Limit	Over n dB 0 -11.06	Detecto
No. Mk. Fr. M. 45.3 2 57.5	req. Hz 3755	Reading Level dBuV 51.38	Correct Factor dB/m -22.44	Measure- ment dBuV/m 28.94	Limit dBuV/n 40.00	Over n dB 0 -11.06 0 -12.79	Detecto peak peak
No. Mk. Fr. M. 45.3 2 57.5 3 74.9	req. Hz 3755 5938	Reading Level dBuV 51.38 51.71	Correct Factor dB/m -22.44 -24.50	Measure- ment dBuV/m 28.94 27.21	400 Limit dBuV/n 40.00	Over n dB 0 -11.06 0 -12.79 0 -13.00	Detecto peak
No. Mk. From Mark 1 45.3 2 57.5 3 74.9 4 * 87.7	req. Hz 3755 5938	Reading Level dBuV 51.38 51.71 50.45	Correct Factor dB/m -22.44 -24.50 -23.45	300 Measure- ment dBuV/m 28.94 27.21 27.00	400 Limit dBuV/n 40.00 40.00	Over n dB 0 -11.06 0 -12.79 1 -7.72	Detecto peak peak peak
No. Mk. From M 1 45.3 2 57.5 3 74.9 4 * 87.7 5 95.7	req. Hz 3755 5938 9191 7248	Reading Level dBuV 51.38 51.71 50.45 55.10	Correct Factor dB/m -22.44 -24.50 -23.45 -22.82	300 Measure- ment dBuV/m 28.94 27.21 27.00 32.28	40.00 40.00 40.00 40.00	Over n dB 0 -11.06 0 -13.00 0 -7.72 0 -10.52	Detecto peak peak peak peak



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EUT:	MID	Model:	MID8001-IB	
Temperature:	25 ℃	Relative Humidity:	55%	
Test Voltage:	AC 120V/60 Hz	01 - 0	an is	
Ant. Pol.	Horizontal			
Test Mode:	TX B Mode 2412MHz			
Remark:	No report for the emission which more than 10 dB below the			
	prescribed limit.			

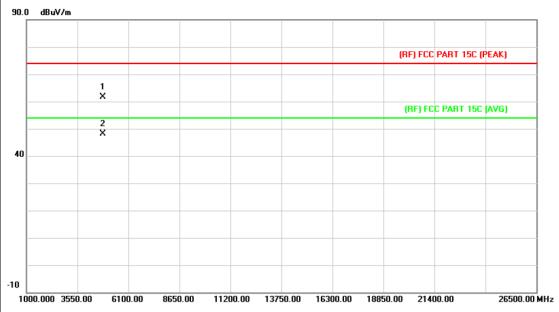


1	Vo.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
			MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		*	4823.947	34.71	13.56	48.27	54.00	-5.73	AVG
2			4824.284	48.98	13.56	62.54	74.00	-11.46	peak



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EUT:	MID	Model:	MID8001-IB			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 Hz	(3)				
Ant. Pol.	Vertical					
Test Mode:	TX B Mode 2412MHz					
Remark:	No report for the emission	No report for the emission which more than 10 dB below the				
	prescribed limit.					

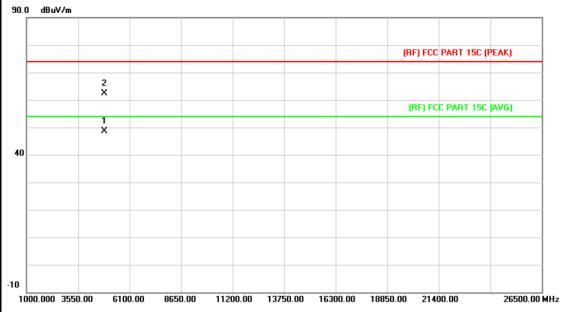


No	o. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	O∨er	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.884	48.01	13.56	61.57	74.00	-12.43	peak
2	*	4823.947	34.48	13.56	48.04	54.00	-5.96	AVG



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EUT:	MID	Model:	MID8001-IB
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz	01 - 0	
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2437MHz		
Remark:	No report for the emissio prescribed limit.	n which more than 10 o	dB below the
00.0 40.4/4-			

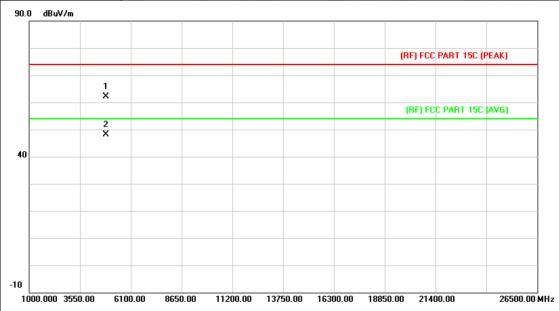


N	o. Mł	κ. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4874.037	34.73	13.86	48.59	54.00	-5.41	AVG
2		4874.334	48.61	13.86	62.47	74.00	-11.53	peak



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EUT:	MID	Model:	MID8001-IB				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 Hz						
Ant. Pol.	Vertical						
Test Mode:	TX B Mode 2437MHz						
Remark:	No report for the emiss prescribed limit.	No report for the emission which more than 10 dB below the					



No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.787	48.18	13.86	62.04	74.00	-11.96	peak
2	*	4873.964	34.26	13.86	48.12	54.00	-5.88	AVG



Report No.: TB-FCC145094
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		10:00					
EUT:	MID	Model:	MID8001-IB				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 Hz	AC 120V/60 Hz					
Ant. Pol.	Horizontal						
Test Mode:	TX B Mode 2462MHz						
Remark:	No report for the emission	No report for the emission which more than 10 dB below the					
	prescribed limit.						

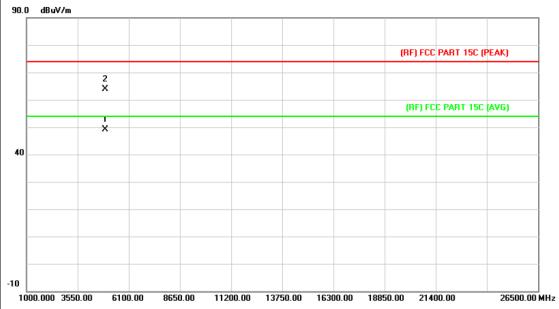


	No.	Mk.	Freq.	_	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		*	4924.087	35.02	14.15	49.17	54.00	-4.83	AVG
2			4924.194	48.72	14.15	62.87	74.00	-11.13	peak



Page: 32 of 69

EUT:	MID	Model:	MID8001-IB				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 Hz	01 - 6	miss a				
Ant. Pol.	Vertical						
Test Mode:	TX B Mode 2462MHz						
Remark:	No report for the emission which more than 10 dB below the						
	prescribed limit.	prescribed limit.					
i							

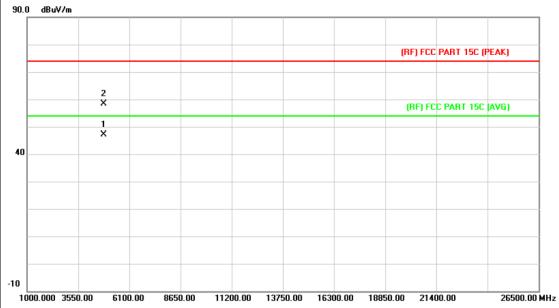


No	o. Mk	. Freq.	_	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4924.047	34.92	14.15	49.07	54.00	-4.93	AVG
2		4924.987	49.63	14.15	63.78	74.00	-10.22	peak



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EUT:	MID	Model:	MID8001-IB				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 Hz	AC 120V/60 Hz					
Ant. Pol.	Horizontal						
Test Mode:	TX G Mode 2412MHz						
Remark:	No report for the emission which more than 10 dB below the						
	prescribed limit.						

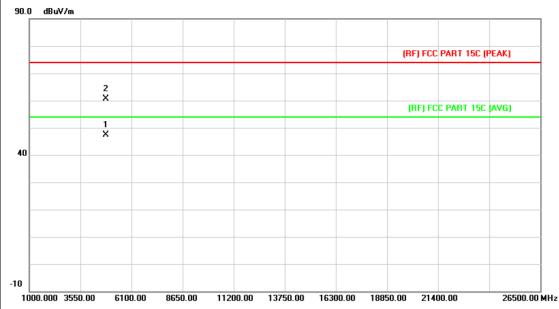


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4824.034	33.56	13.56	47.12	54.00	-6.88	AVG
2		4824.076	44.90	13.56	58.46	74.00	-15.54	peak



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EUT:	MID	Model:	MID8001-IB				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 Hz	01 - 6	miss a				
Ant. Pol.	Vertical						
Test Mode:	TX G Mode 2412MHz						
Remark:	No report for the emission which more than 10 dB below the						
	prescribed limit.	prescribed limit.					
i							

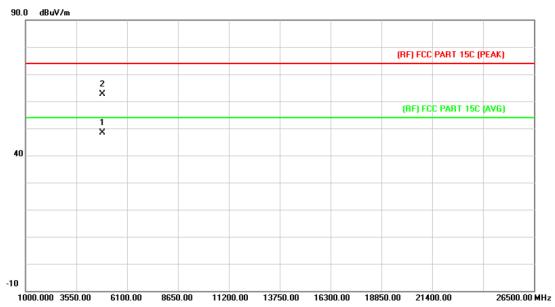


No	o. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4823.412	33.71	13.56	47.27	54.00	-6.73	AVG
2		4824.722	46.95	13.56	60.51	74.00	-13.49	peak



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EUT:	MID	Model:	MID8001-IB				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 Hz	AC 120V/60 Hz					
Ant. Pol.	Horizontal						
Test Mode:	TX G Mode 2437MHz						
Remark:	No report for the emission which more than 10 dB below the prescribed limit.						



No	o. MI	k. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4873.071	34.43	13.86	48.29	54.00	-5.71	AVG
2		4875.045	48.67	13.87	62.54	74.00	-11.46	peak



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A Marie		17:13				
EUT:	MID	Model:	MID8001-IB			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 Hz					
Ant. Pol.	Vertical					
Test Mode:	TX G Mode 2437MHz					
Remark:	No report for the emission which more than 10 dB below the					
	man a anila a al lina it					

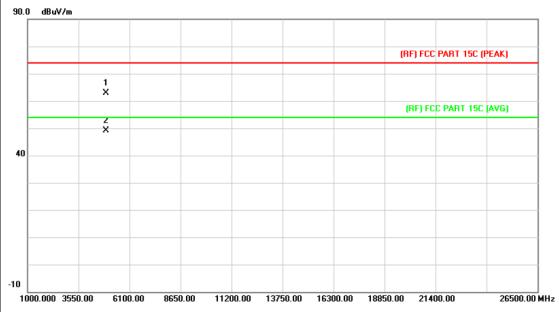


N	lo. M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.654	49.03	13.86	62.89	74.00	-11.11	peak
2	*	4873.784	34.80	13.86	48.66	54.00	-5.34	AVG



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EUT:	MID	Model:	MID8001-IB		
Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	AC 120V/60 Hz				
Ant. Pol.	Horizontal				
Test Mode:	TX G Mode 2462MHz				
Remark:	No report for the emission which more than 10 dB below the				
prescribed limit.					

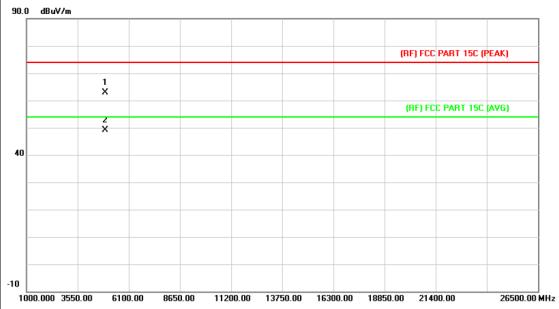


No	o. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.757	48.72	14.15	62.87	74.00	-11.13	peak
2	*	4924.845	34.97	14.15	49.12	54.00	-4.88	AVG



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EUT:	MID	Model:	MID8001-IB			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 Hz	AC 120V/60 Hz				
Ant. Pol.	Vertical	Vertical				
Test Mode:	TX G Mode 2462MHz					
Remark:	No report for the emission which more than 10 dB below the prescribed limit.					
20 0 ID 111						

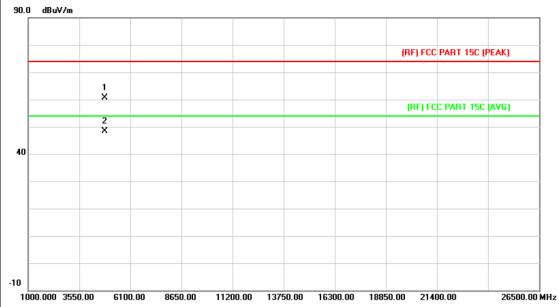


No	. Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4925.487	48.78	14.16	62.94	74.00	-11.06	peak
2	*	4925.498	34.89	14.16	49.05	54.00	-4.95	AVG



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EUT:	MID	Model:	MID8001-IB			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 Hz	AC 120V/60 Hz				
Ant. Pol.	Horizontal	Horizontal				
Test Mode:	TX N(HT20) Mode 2412	MHz				
Remark:	No report for the emission which more than 10 dB below the					
	prescribed limit.					

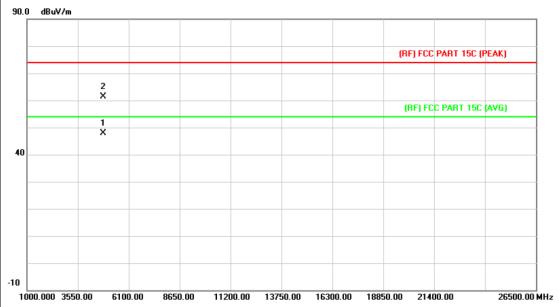


No.	Mk.	Freq.	_	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.974	46.96	13.56	60.52	74.00	-13.48	peak
2	*	4823.981	34.75	13.56	48.31	54.00	-5.69	AVG



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EUT:	MID	Model:	MID8001-IB				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 Hz	AC 120V/60 Hz					
Ant. Pol.	Vertical	Vertical					
Test Mode:	TX N(HT20) Mode 2412	ИНz					
Remark:	No report for the emissio	No report for the emission which more than 10 dB below the					
	prescribed limit.						

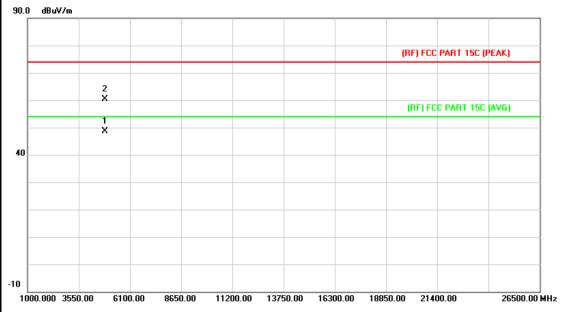


No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4824.047	34.28	13.56	47.84	54.00	-6.16	AVG
2		4824.087	47.91	13.56	61.47	74.00	-12.53	peak



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EUT:	MID	Model:	MID8001-IB			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 Hz	AC 120V/60 Hz				
Ant. Pol.	Horizontal	Horizontal				
Test Mode:	TX N(HT20) Mode 2437	ИНz				
Remark:	No report for the emission which more than 10 dB below the					
	prescribed limit.					

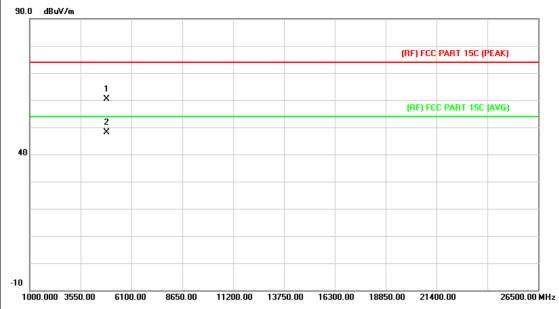


N	lo.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
			MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		*	4874.048	34.75	13.86	48.61	54.00	-5.39	AVG
2			4874.074	46.61	13.86	60.47	74.00	-13.53	peak



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EUT:	MID	Model:	MID8001-IB			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 Hz					
Ant. Pol.	Vertical	Vertical				
Test Mode:	TX N(HT20) Mode 2437	TX N(HT20) Mode 2437MHz				
Remark:	No report for the emission which more than 10 dB below the					
	prescribed limit.					

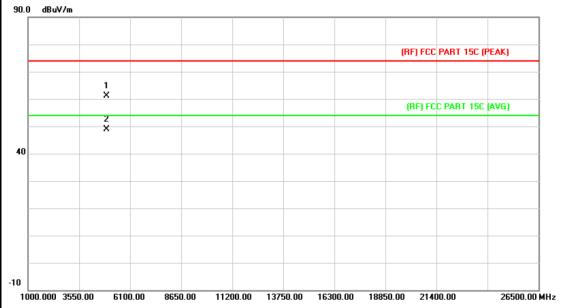


No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4874.043	46.63	13.86	60.49	74.00	-13.51	peak
2	*	4874.074	34.31	13.86	48.17	54.00	-5.83	AVG



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EUT:	MID	Model:	MID8001-IB			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 Hz					
Ant. Pol.	Horizontal	Horizontal				
Test Mode:	TX N(HT20) Mode 2462	ИНz				
Remark:	No report for the emission which more than 10 dB below the					
	prescribed limit.					

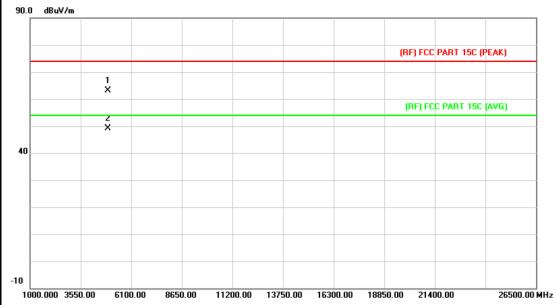


No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4924.073	47.07	14.15	61.22	74.00	-12.78	peak
2	*	4924.084	34.63	14.15	48.78	54.00	-5.22	AVG



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			ALL MAIN A ALMONY			
EUT:	MID	Model:	MID8001-IB			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 Hz					
Ant. Pol.	Vertical					
Test Mode:	TX N(HT20) Mode 2462N	ИНz	A VIII			
Remark:	No report for the emission	No report for the emission which more than 10 dB below the				
	prescribed limit.					
1						

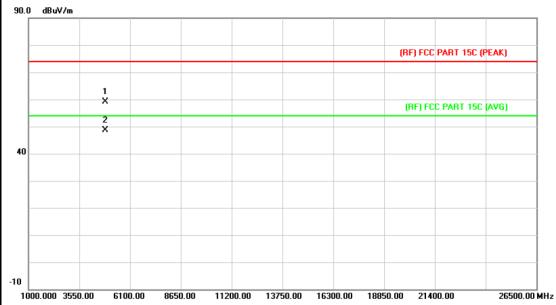


N	lo. Mł	ι. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4924.041	48.97	14.15	63.12	74.00	-10.88	peak
2	*	4924.237	34.89	14.15	49.04	54.00	-4.96	AVG



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EUT:	MID	Model:	MID8001-IB			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 Hz					
Ant. Pol.	Horizontal	Horizontal				
Test Mode:	TX N(HT40) Mode 2422N	ИНz				
Remark:	No report for the emissio	No report for the emission which more than 10 dB below the				
	prescribed limit.					
i						

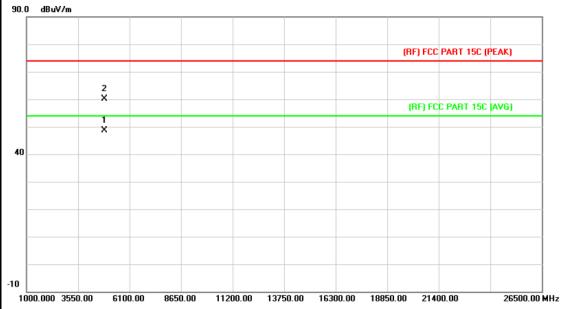


ı	No.	Mk.	Freq.	_		Measure- ment	Limit	Over	
			MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1			4844.034	45.43	13.68	59.11	74.00	-14.89	peak
2		*	4844.041	34.93	13.68	48.61	54.00	-5.39	AVG



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EUT:	MID	Model:	MID8001-IB			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 Hz	AC 120V/60 Hz				
Ant. Pol.	Vertical					
Test Mode:	TX N(HT40) Mode 2422	ИНz				
Remark:	No report for the emission which more than 10 dB below the prescribed limit.					
prescribed innit.						

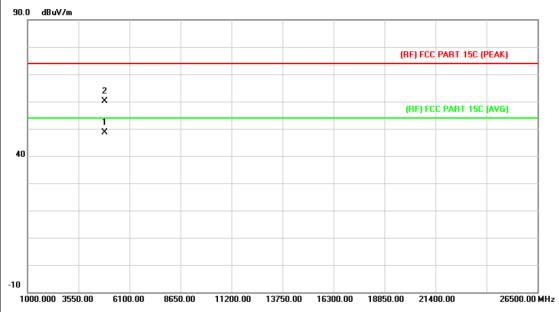


N	lo. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4843.941	34.93	13.68	48.61	54.00	-5.39	AVG
2		4844.047	46.49	13.68	60.17	74.00	-13.83	peak



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EUT:	MID	Model:	MID8001-IB			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 Hz					
Ant. Pol.	Horizontal	Horizontal				
Test Mode:	TX N(HT40) Mode 2437	ИНz				
Remark:	No report for the emission which more than 10 dB below the					
	prescribed limit.					

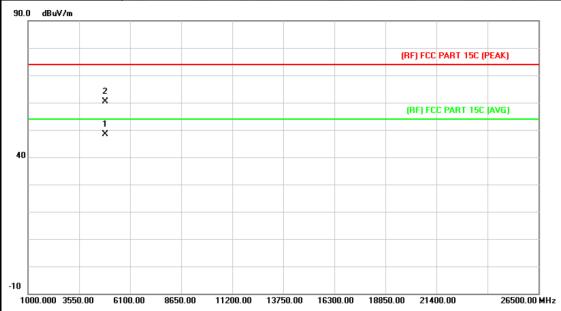


No	o. M	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	48	874.017	34.65	13.86	48.51	54.00	-5.49	AVG
2		48	874.041	46.31	13.86	60.17	74.00	-13.83	peak



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EUT:	MID	Model:	MID8001-IB			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 Hz	AC 120V/60 Hz				
Ant. Pol.	Vertical	Vertical				
Test Mode:	TX N(HT40) Mode 2437	ИНz				
Remark:	No report for the emission which more than 10 dB below the prescribed limit.					
70.0 TO 11.0						

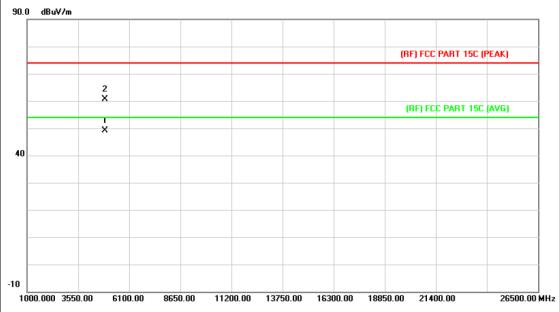


No	. Mk	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4873.487	34.52	13.86	48.38	54.00	-5.62	AVG
2		4873.571	46.56	13.86	60.42	74.00	-13.58	peak



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EUT:	MID	Model:	MID8001-IB		
Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	AC 120V/60 Hz	01 - 0			
Ant. Pol.	Horizontal				
Test Mode:	TX N(HT40) Mode 2452N	ИНz			
Remark:	No report for the emission which more than 10 dB below the prescribed limit.				

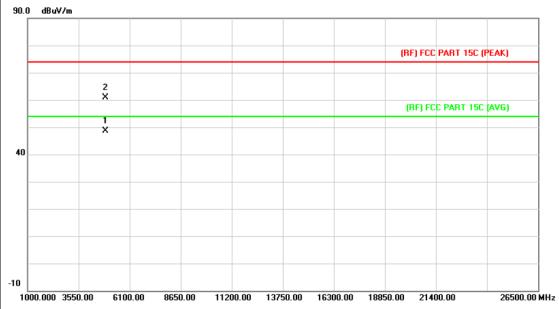


No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4904.037	35.14	14.03	49.17	54.00	-4.83	AVG
2		4904.074	46.70	14.03	60.73	74.00	-13.27	peak



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EUT:	MID	Model:	MID8001-IB				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 Hz	AC 120V/60 Hz					
Ant. Pol.	Vertical						
Test Mode:	TX N(HT40) Mode 2452N	ИНz					
Remark:	No report for the emission which more than 10 dB below the						
	prescribed limit.						



No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4903.981	34.64	14.03	48.67	54.00	-5.33	AVG
2		4904.047	46.95	14.03	60.98	74.00	-13.02	peak



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6. Restricted Bands Requirement

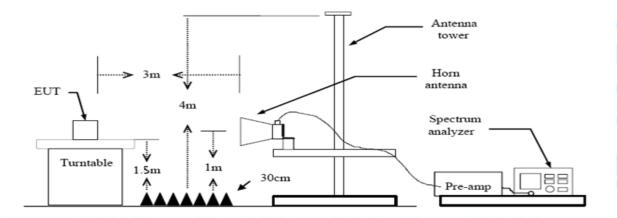
6.1 Test Standard and Limit

5.1.1 Test Standard FCC Part 15.209 FCC Part 15.205

5.1.2 Test Limit

Restricted Frequency	cy 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



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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

Please see the next page.

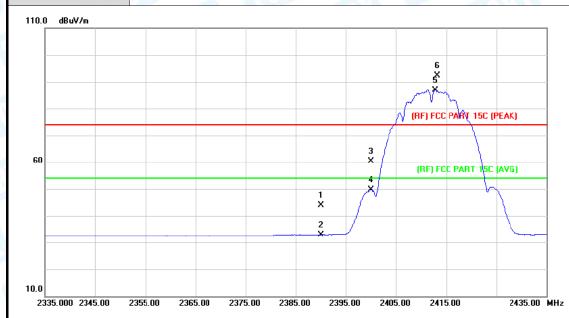






(1) Radiation Test

EUT:	MID	Model:	MID8001-IB
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz	The same of the sa	
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz		
Remark:	N/A		



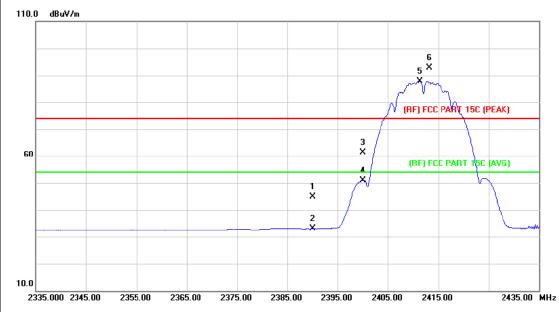
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	43.18	0.77	43.95	74.00	-30.05	peak
2		2390.000	32.17	0.77	32.94	54.00	-21.06	AVG
3		2400.000	59.66	0.81	60.47	Fundamental	Frequency	peak
4		2400.000	48.75	0.81	49.56	Fundamental	Frequency	AVG
5	*	2412.800	86.06	0.86	86.92	54.00	32.92	AVG
6	Χ	2413.200	91.59	0.86	92.45	74.00	18.45	peak



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EUT:	MID	Model:	MID8001-IB
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz	(1) T	in its
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHz		
Remark:	N/A		1:33

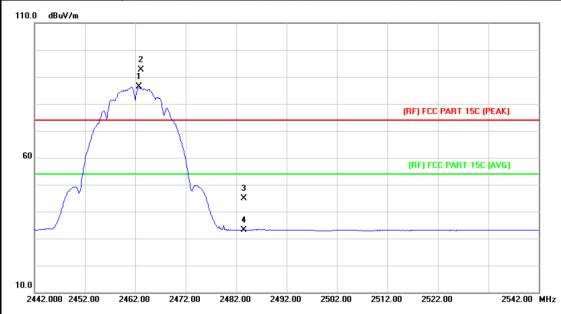


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	44.21	0.77	44.98	74.00	-29.02	peak
2		2390.000	32.30	0.77	33.07	54.00	-20.93	AVG
3		2400.000	60.46	0.81	61.27	Fundamenta	I Frequency	peak
4		2400.000	50.11	0.81	50.92	Fundamental	Frequency	AVG
5	*	2411.300	87.04	0.86	87.90	54.00	33.90	AVG
6	Χ	2413.200	92.01	0.86	92.87	74.00	18.87	peak



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EUT:	MID	Model:	MID8001-IB
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz	01 - 0	
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2462MHz		
Remark:	N/A		1:33



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	O∨er	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2462.700	85.23	1.08	86.31	Fundamental	Frequency	AVG
2	Χ	2463.100	91.43	1.08	92.51	Fundamental	Frequency	peak
3		2483.500	43.68	1.17	44.85	74.00	-29.15	peak
4		2483.500	31.94	1.17	33.11	54.00	-20.89	AVG



EUT: MID Model: MID8001-IB Temperature: 25 ℃ **Relative Humidity:** 55% AC 120V/60 Hz **Test Voltage:** Ant. Pol. Vertical **Test Mode:** TX B Mode 2462MHz Remark: N/A



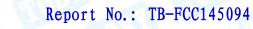
N	o. Mł	κ. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2461.300	87.94	1.07	89.01	Fundamental	Frequency	AVG
2	Х	2463.200	92.40	1.08	93.48	Fundamental	Frequency	peak
3		2483.500	43.65	1.17	44.82	74.00	-29.18	peak
4		2483.500	32.26	1.17	33.43	54.00	-20.57	AVG



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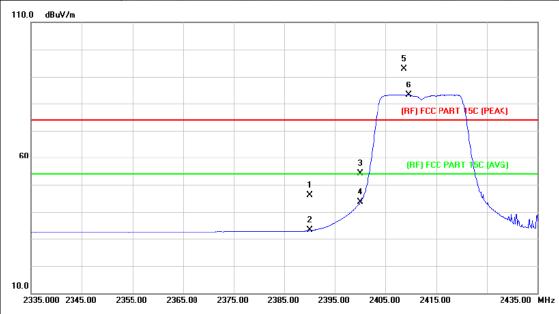
	Γ:		MID			9 1	Model:			MID8	3001-IE	3		
Tem	nperatu	re:	25 °C	C			Relativ	e Hum	idity:	55%		filtre		
Tes	t Voltag	je:	AC 1	20V/60	Hz		MIN.	100	6	100				
Ant	. Pol.		Horiz	zontal		A M		1						
Tes	t Mode:		TX G	Mode	2412	MHz	_ 6	1110		TO WILL				
Ren	nark:		N/A	160		1			611					
110.0	0 dBuV/m													
										5 X				
										6 X				
									(RF)	FCC PART	15C (PEA	K)		
60								3	(RF) FCC PAR	T 1 <mark>5C (AV</mark>	G)		
							1.	*/						
							×	* *						
							2 X					Whi		
10.0														
23	335.000 234	15 NN 2	355.00	2365.00	2375	i.00 238	. 00 220	5.00 2	405.00	2415.00		2435.00 MH		
		15.00	:333.00	2303.00		.00 230.	J.UU 233							
			.333.00		I:									
_	No. Mk			Read	_	Corre	ct Mea	asure- ent	Limi	t C	Over			
	No. Mk	i. Fr	eq.		el		ct Mea	asure- ent	Limi)ver	Detecto		
	No. Mk	i. Fr	eq.	Read Lev	el V	Correc Facto	ct Mea or m	ent		//m				
1 2	No. Mk	:. Fr	eq. Hz .000	Read Lev	el V 10	Correc Facto	ct Mea or m dB	ent uV/m	dBu∖	//m 00 -2	dB	peak		
1	No. Mk	. Fr Мі 2390	eq. Hz .000	Read Lev dBu	el V 10 34	Correct Factor dB/m 0.77	ct Mea or m dE 4-	ent uV/m 4.87	dBu\ 74.0 54.0	//m 00 -2	dB 29.13 20.89	peak		
1 2	No. Mk	Fr мі 2390 2390	eq. Hz .000 .000	Read Lev dBu 44.7	el V 10 34 73	Correct Factor dB/m 0.77 0.77	ct Mea or m dE 4- 3:	ent uV/m 4.87 3.11	74.0 54.0 Fundam	//m 00 -2	dB 29.13 20.89 quency	peak AVG		
1 2 3	No. Mk	E. Fr MI 2390 2390 2400	eq. Hz .000 .000 .000	Read Lev dBu 44.7 32.3	el V 10 34 73 26	Correct Factor dB/m 0.77 0.77 0.81	ct Mea or m dE 44 33 55	ent 4.87 3.11 3.54	74.0 54.0 Fundam	//m 00 -2 00 -2 ental Free	dB 29.13 20.89 quency	peak AVG peak		





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EUT:	MID	Model:	MID8001-IB
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz	(1) T	
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2412MHz		THE PARTY OF THE P
Remark:	N/A		1:33
110.0 dBuV/m			



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	45.36	0.77	46.13	74.00	-27.87	peak
2		2390.000	32.50	0.77	33.27	54.00	-20.73	AVG
3		2400.000	53.33	0.81	54.14	Fundamental	Frequency	peak
4		2400.000	42.90	0.81	43.71	Fundamental	Frequency	AVG
5	Χ	2408.700	92.02	0.85	92.87	74.00	18.87	peak
6	*	2409.600	82.33	0.85	83.18	54.00	29.18	AVG



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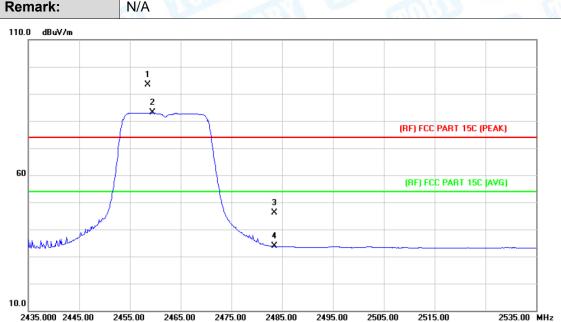
EUT:		MID		6 N	Model:		MID8001	-IB		
Temperatu	ıre:	25 ℃	The same	3.3	Relative Hun	55%	Alle			
Test Volta	ge:	AC 12	AC 120V/60 Hz							
Ant. Pol.		Horizo	ntal	I Bu		31.		THE STATE OF		
Test Mode):	TXGI	Mode 246	2MHz	ЛНz					
Remark:		N/A		-						
110.0 dBuV/n	n									
			1							
			×							
		,	2 X							
		+-	 			(RF) F	CC PART 15C (PE	EAK)		
60						(RF)	FCC PART 15C (/	WG)		
	+		 	3 X						
			\	4						
MM	M			Wed X						
10.0										
2435.000 24	145.00 2	2455.00	2465.00 247	5.00 2485	.00 2495.00 2	505.00 2	515.00	2535.00 MHz		
			Reading	Correc	t Measure					
No. Mł	k. Fr	eq.	Level	Facto		Limi	t Over	•		
	MI	Hz	dBuV	dB/m	dBuV/m	dBu∖	//m dB	Detector		

No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	Х	2463.600	90.43	1.08	91.51	Fundamental	Frequency	peak
2	*	2466.100	79.63	1.09	80.72	Fundamental	Frequency	AVG
3		2483.500	44.54	1.17	45.71	74.00	-28.29	peak
4		2483.500	32.10	1.17	33.27	54.00	-20.73	AVG



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		771:13	THE PARTY OF THE P
EUT:	MID	Model:	MID8001-IB
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz	(A)	
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2462MHz		THE PARTY OF
Demonic	NI/A		



No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	Χ	2458.600	92.36	1.06	93.42	Fundamental	Frequency	peak
2	*	2459.500	81.95	1.06	83.01	Fundamental	Frequency	AVG
3		2483.500	44.96	1.17	46.13	74.00	-27.87	peak
4		2483.500	32.60	1.17	33.77	54.00	-20.23	AVG



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		171:19	U. S. I. I.
EUT:	MID	Model:	MID8001-IB
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		anis s
Ant. Pol.	Horizontal	THU .	
Test Mode:	TX N(HT20) Mode 2	412MHz	
Remark:	N/A		1:33
110.0 dBuV/m			
			6 X
			5
		(RF)	FCC PART 15C (PEAK)

								6 X		
								5 X		
						Æ	(RF) FCC	PART	5C (P	EAK)
60					3 X		(RF) FC	C PART	15C	(AVG)
				1 X	4				\int	
				2 _X						Www.M
).O										

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	45.74	0.77	46.51	74.00	-27.49	peak
2		2390.000	32.42	0.77	33.19	54.00	-20.81	AVG
3		2400.000	55.06	0.81	55.87	Fundamenta	l Frequency	peak
4		2400.000	41.33	0.81	42.14	Fundamenta	l Frequency	AVG
5	*	2417.400	79.39	0.89	80.28	54.00	26.28	AVG
6	Χ	2419.300	90.54	0.89	91.43	74.00	17.43	peak



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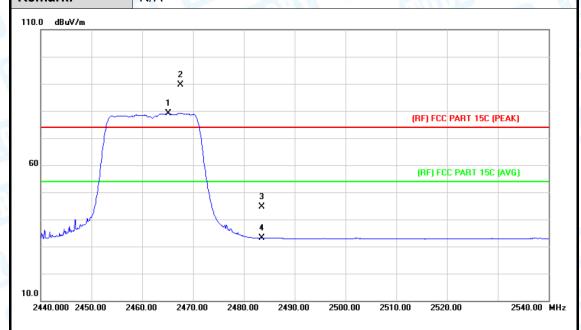


EUT:			MID			Model:			MID8001-II	В		
Tempe	ratur	e:	25 °	C	333	Relativ	e Hum	idity:	55%	A Dr.		
Test V	oltage) :	AC 1	120V/60 Hz		18		67	MI SE			
Ant. P	ol.		Verti	cal	A R.				100			
Test M	lode:		TXN	N(HT20) Mod	de 2412MI	Hz	1110		mill House			
Remar	k:		N/A	A STATE	-	1 1						
110.0	dBuV/m											
								5 X	6 X			
								(RF) FC	C PART 15C (PEA	AKJ		
60						1	3 X	(RF) F	CC PART 15C (AV	/G)		
						×	4					
						2 X				Marane		
10.0												
2335.	000 234	5.UU 2	355.00	2365.00 23	75.00 2385 .	UU 239	5.00 2	405.00 241	15.00	2435.00 MI		
No.	Mk.	Fre	eq.	Reading Level	Correct Factor		asure- ent	Limit	Over			
		MH	lz	dBuV	dB/m	dB	uV/m	dBuV/n	n dB	Detecto		
1		2390.	000	47.85	0.77	48	3.62	74.00	-25.38	peak		
2		2390.	000	32.75	0.77	33	3.52	54.00	-20.48	AVG		
3		2400.	000	57.80	0.81	50.04		— Fundamen	tal Frequency	peak		
_		2400	000	40.00	0.04	-			tal Frequency	A\/C		
4		2400.	000	43.38	0.81	44	4.19	rungamen	tal Frequency	AVG		
5	Χ	2400. 2409.		91.60	0.85		4.19 2.45	74.00		AVG peak		



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A HILL		477.53	WALL TO SERVICE STREET						
EUT:	MID	Model:	MID8001-IB						
Temperature:	25 ℃	Relative Humidity:	55%						
Test Voltage:	AC 120V/60 Hz	03 - 6	and a						
Ant. Pol.	Horizontal								
Test Mode:	TX N(HT20) Mode 2462	TX N(HT20) Mode 2462MHz							
Remark:	N/A		7:33						

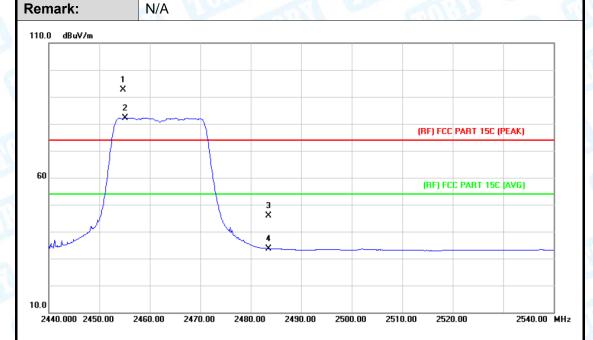


No.	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2465.100	78.05	1.09	79.14	Fundamental Frequency		AVG
2	Х	2467.500	88.54	1.10	89.64	Fundamental Frequency		peak
3		2483.500	43.40	1.17	44.57	74.00	-29.43	peak
4		2483.500	31.93	1.17	33.10	54.00	-20.90	AVG



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A Marie		17:13	
EUT:	MID	Model:	MID8001-IB
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz	03 - 6	and a
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2462N	ИHz	



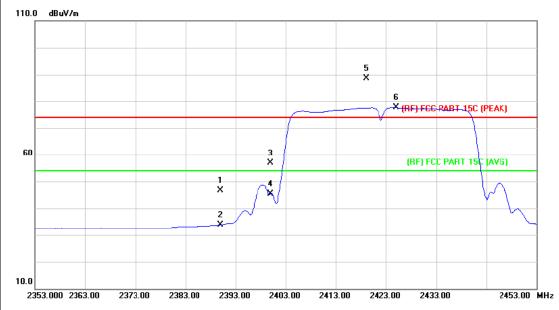
No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	Х	2454.700	91.56	1.05	92.61	Fundamental Frequency		peak
2	*	2455.100	81.15	1.05	82.20	Fundamental Frequency		AVG
3		2483.500	44.70	1.17	45.87	74.00	-28.13	peak
4		2483.500	32.48	1.17	33.65	54.00	-20.35	AVG



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EUT:	MID	Model:	MID8001-IB						
Temperature:	25 ℃	Relative Humidity:	55%						
Test Voltage: AC 120V/60 Hz									
Ant. Pol.	Horizontal	Horizontal							
Test Mode:	de: TX N(HT40) Mode 2422MHz								
Remark:	N/A		1:13						



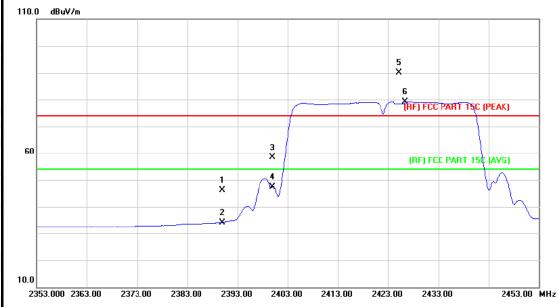
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	45.98	0.77	46.75	74.00	-27.25	peak
2		2390.000	33.04	0.77	33.81	54.00	-20.19	AVG
3		2400.000	55.96	0.81	56.77	— Fundamental	Frequency	peak
4		2400.000	44.65	0.81	45.46	— Fundamental	Frequency	AVG
5	Χ	2419.100	87.68	0.89	88.57	74.00	14.57	peak
6	*	2425.000	76.60	0.93	77.53	54.00	23.53	AVG





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EUT:	MID	Model:	MID8001-IB						
Temperature:	25 ℃	Relative Humidity:	55%						
Test Voltage:									
Ant. Pol. Vertical									
Test Mode:	TX N(HT40) Mode 2422	ИНz							
Remark: N/A									
110.0 dBuV/m									

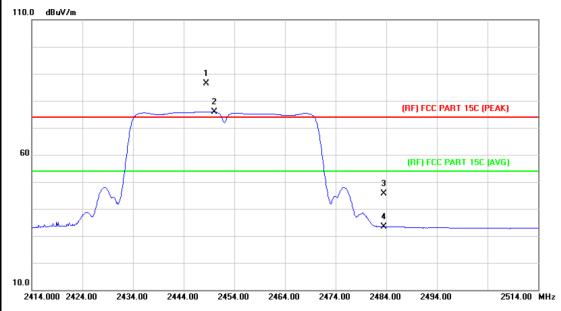


No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	45.36	0.77	46.13	74.00	-27.87	peak
2		2390.000	33.44	0.77	34.21	54.00	-19.79	AVG
3		2400.000	57.56	0.81	58.37	Fundamental F	requency	peak
4		2400.000	46.66	0.81	47.47	Fundamental F	-requency	AVG
5	Χ	2425.200	89.22	0.93	90.15	74.00	16.15	peak
6	*	2426.400	78.32	0.93	79.25	54.00	25.25	AVG



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EUT:		MID	Model:	MID8001-IB					
Temperatu	ıre:	25 ℃	Relative Humidity:	55%					
Test Volta	Voltage: AC 120V/60 Hz								
Ant. Pol.		Horizontal							
Test Mode	ode: TX N(HT40) Mode 2452MHz								
Remark:		N/A							



No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	Х	2448.500	85.45	1.02	86.47	Fundamental Frequency		peak
2	*	2450.000	74.86	1.02	75.88	Fundamental Frequency		AVG
3		2483.500	44.44	1.17	45.61	74.00	-28.39	peak
4		2483.500	32.24	1.17	33.41	54.00	-20.59	AVG



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EUT:			MID	MID							N	MID8001-IB		
Гетр	remperature: 25 °C Relative Humidity: 55%							60						
Test V	/oltag	e:	AC 1	20V/60) Hz						Kali	1138		
Ant. F	Pol.		Verti	cal						1	163			
Test N	/lode:		TXN	I(HT40) Moc	de 245	2MHz	G	111			a W		
Rema	rk:		N/A	MA		A	571	11		THE STATE OF THE S				
110.0	dBuV/m													_
					2 X									
					_^ I									
			_		·		-	$\overline{}$			(RF) FCC	PART 15C (PE	AK)	1
								-						
60			4					\perp			(DE) EC	C PART 15C (A	vei	
								1.	Λ	3	(IIII) FC	C PART TOC (A	vu,	-
		W Ver	/					V	In	×				
M	/\/									X.				
														1
10.0 2414.	000 242	4.00 2	2434.00	2444.00	2454	4.00 2	464.00	2474	4.00	2484.0	0 2494	.00	2514.00	_
				Read	dina	Corr	ect	Mea	asure					
No	. Mk	. Fr	eq.	Lev	_	Fac			ent		_imit	O∨er		
		М	Hz	dBu	ıV	dB/i	m	dB	uV/m	-	dBuV/m	dB	Dete	ecto
1	*	2447	.500	79.	 01	1.0	1	80	0.02	Fı	undament	al Frequency	А١	/G
2	Х	2449	.500	90.:	 55	1.0	2	9	1.57			al Frequency		ak
			3.500	46.		1.1			7.61		74.00			ak
3				33.		1.1			4.54		54.00			
3		2483	3.500	4 4	37									



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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 0dBi, 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	
▶ Permanent attached antenna	Minnes
□ Unique connector antenna	
☐ Professional installation antenna	on DE