

## Shenzhen Toby Technology Co., Ltd.



Report No.: TBR-C-202204-0388-4

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## **Radio Test Report**

FCC ID: XMF-MID1105

## Change II

Report No. : TBR-C-202204-0388-4

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

**Equipment Under Test (EUT)** 

**EUT Name** : 11.6"Tablet

Model No. : 100043279

Series Model No. : MID1105

Brand Name : onn

Sample ID : RW-C-202204-0388-3-1#&RW-C-202204-0388-3-2#

**Receipt Date** : 2022-05-11

**Test Date** : 2022-05-11 to 2022-05-12

Issue Date : 2022-05-19

Standards : FCC Part 15 Subpart C 15.247

**Test Method** : ANSI C63.10: 2013

KDB 558074 D01 15.247 Meas Guidance v05r02

Conclusions : PASS

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

Witness Engineer : Ref.

Engineer Supervisor : MAN SV

van Su Ray Lai

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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# **Revision History**

Report No.	Version	Description	Issued Date
TBR-C-202204-0388-4	Rev.01	Initial issue of report	2022-05-19
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## 1. General Information about EUT

### 1.1 Client Information

Applicant		Lightcomm Technology Co., Ltd.
Address : UNIT 1306 13/F ARION COMMERCIAL CENTRE,2-12 QUI ROAD WEST, SHEUNG WAN HK		UNIT 1306 13/F ARION COMMERCIAL CENTRE,2-12 QUEEN'S ROAD WEST, SHEUNG WAN HK
Manufacturer		Huizhou Hengdu Electronics Co., Ltd
Address	:	No.8 Huitai Road, Huinan High-tech Industrial Park, Huiao Avenue, Huizhou, Guangdong, China.

## 1.2 General Description of EUT (Equipment Under Test)

<b>EUT Name</b>	:	11.6"Tablet	11.6"Tablet			
Models No.	ŀ	100043279, MID1105				
Model Different	6	All these models are identical in the same PCB, layout and electrical circuit, The only difference is model name.				
mn by		Operation Frequency:	Bluetooth 5.2(BLE): 2402MHz~2480MHz			
		Number of Channel:	Bluetooth 5.2(BLE): 40 channels			
Product		Antenna Gain:	1.73dBi FPC Antenna			
Description		Modulation Type:	GFSK			
		Bit Rate of Transmitter:	1Mbps			
Power Rating		Adapter(TEKA-UCA20US) Input: 100-240V~, 50/60Hz, 0.35A MAX Output: DC 5V2.0A DC 3.8V by 7300mAh Rechargeable Li-ion battery				
Software Version : RP1A.200720.011 mp1V889 release-keys			1V889 release-keys			
Hardware Version		MID1105MP_MT8183_	_LPDDR4_MB-VER1.1			
7/9/9	11					

#### Remark:

- (1) The antenna gain and adapter provided by the applicant, the verified for the RF conduction test provided by TOBY test lab.
- (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.



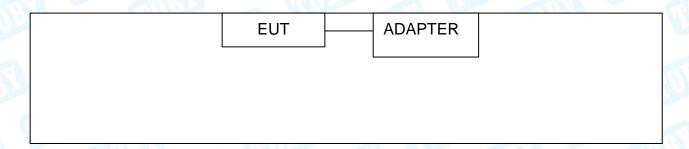
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## (4) Channel List:

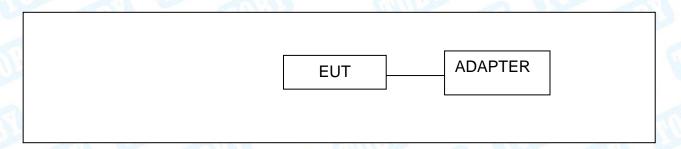
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	14	2430	28	2458
01	2404	15	2432	29	2460
02	2406	16	2434	30	2462
03	2408	17	2436	31	2464
04	2410	18	2438	32	2466
05	2412	19	2440	33	2468
06	2414	20	2442	34	2470
07	2416	21	2444	35	2472
08	2418	22	2446	36	2474
09	2420	23	2448	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

## **Conducted Test**



### **Radiated Test**





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## 1.4 Description of Support Units

Equipment Information								
Name	Manufacturer	Used "√"						
UB) <del></del>					(UB) <del>-</del>			
	Cable Information							
Number Shielded Type Ferrite Core Length Note								
Cable 1	Yes	NO	1.0M	Accessory				

### 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 USB Charging+TX Mode						
	For Radiated Test					
Final Test Mode	Description					
Mode 2	TX Mode					
Mode 3 TX 1Mbps Mode (Channel 00/19/39)						

#### 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:

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 portable 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.



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### 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		8788-LaunchEngl	Mode
Frequency	2402 MHz	2440MHz	2480 MHz
BLE 1M	DEF	DEF	DEF

### 1.7 Measurement Uncertainty

The reported uncertainty of measurement  $y \pm U_1$ , 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 <sub>Lab</sub> )
Conducted Emission	Level Accuracy: 9kHz~150kHz 150kHz to 30MHz	±3.50 dB ±3.10 dB
Radiated Emission	Level Accuracy: 9kHz to 30 MHz	±4.60 dB
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	±4.50 dB
Radiated Emission	Level Accuracy: Above 1000MHz	±4.20 dB



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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 1/F.,Building 6, Rundongsheng Industrial Zone, Longzhu, Xixiang, Bao'an District, 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: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

#### A2LA Certificate No.: 4750.01

The laboratory has been accredited by American Association for Laboratory Accreditation(A2LA) to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the technical competence in the field of Electrical Testing. And the A2LA Certificate No.: 4750.01.FCC Accredited Test Site Number: 854351. Designation Number: CN1223.

#### IC Registration No.: (11950A)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A. CAB identifier: CN0056.



## 2. Test Summary

Standard Section	Took How	Toot Commission	landama and	D	
FCC	Test Item	Test Sample(s)	Judgment	Remark	
FCC 15.207(a)	Conducted Emission	RW-C-202204-0388-3-1#	PASS	N/A	
FCC 15.209 & 15.247(d)	Radiated Unwanted Emissions	RW-C-202204-0388-3-1#	PASS	N/A	
FCC 15.203	Antenna Requirement		N/A	N/A	
FCC 15.247(a)(2)	6dB Bandwidth	1	N/A	N/A	
	99% Occupied bandwidth	1	N/A	N/A	
FCC 15.247(b)(3)	Peak Output Power and E.I.R.P	1	N/A	N/A	
FCC 15.247(e)	Power Spectral Density		N/A	N/A	
FCC 15.247(d)	Band Edge Measurements		N/A	N/A	
FCC 15.207(a)	Conducted Unwanted Emissions		N/A	N/A	
FCC 15.247(d)	Emissions in Restricted Bands	/ 1	N/A	N/A	
	On Time and Duty Cycle	6084		N/A	

#### Note:

- (1) N/A is an abbreviation for Not Applicable.
- (2) 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.
- (3) As there is no change regard RF transmitter portion and Antenna assembly, the change will not have effect on Radiated emission above 1GHz by judging for experience, thus testing is performed up to 1GHz only.

## 3. Test Software

Test Item	Test Software	Manufacturer	Version No.
Conducted Emission	EZ-EMC	EZ	CDI-03A2
Radiation Emission	EZ-EMC	EZ	FA-03A2RE
RF Conducted Measurement	MTS-8310	MWRFtest	V2.0.0.0
RF Test System	JS1120	Tonscend	V2.6.88.0336



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## 4. Test Equipment

<b>Conducted Emission</b>	on Test				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jul. 02, 2021	Jul. 01, 2022
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jul. 02, 2021	Jul. 01, 2022
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jul. 02, 2021	Jul. 01, 2022
LISN	Rohde & Schwarz	ENV216	101131	Jul. 02, 2021	Jul. 01, 2022
Radiation Emission	Test (A Site)		<del>'</del>	-	
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102197	Jul. 02, 2021	Jul. 01, 2022
EMI Test Receiver	Rohde & Schwarz	ESPI	100010/007	Jul. 02, 2021	Jul. 01, 2022
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Feb. 27, 2022	Feb. 26, 2024
Horn Antenna	ETS-LINDGREN	3117	00143207	Feb. 26, 2022	Feb. 25, 2024
Horn Antenna	SCHWARZBECK	BBHA 9170	1118	Feb. 26, 2022	Feb. 25, 2024
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-059	Jul. 06, 2021	Jul. 05, 2022
Pre-amplifier	SONOMA	310N	185903	Feb. 26, 2022	Feb. 25, 2023
Pre-amplifier	HP (	8449B	3008A00849	Feb. 26, 2022	Feb. 25, 2023
HF Amplifier	Tonscend	TAP0184050	AP21C806129	Sep. 03, 2021	Sep. 02, 2022
Radiation Emission	Test (B Site)				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102197	Jul. 02, 2021	Jul. 01, 2022
MXA Signal Analyzer	Agilent	N9020A	MY47380425	Sep. 03, 2021	Sep. 02, 2022
EMI Test Receiver	Rohde & Schwarz	ESU-8	100472	Feb. 26, 2022	Feb. 25, 2023
Bilog Antenna	SCHWARZBECK	VULB 9168	1225	Dec. 05, 2021	Dec. 04, 2023
Horn Antenna	SCHWARZBECK	BBHA 9120 D	2463	May 20, 2021	May 19, 2022
Horn Antenna	SCHWARZBECK	BBHA 9170	1118	Feb. 26, 2022	Feb. 25, 2024
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-059	Jul. 06, 2021	Jul. 05, 2022
HF Amplifier	Tonscend	TAP9E6343	AP21C806117	Sep. 03, 2021	Sep. 02, 2022
HF Amplifier	Tonscend	TAP051845	AP21C806141	Sep. 03, 2021	Sep. 02, 2022
HF Amplifier	Tonscend	TAP0184050	AP21C806129	Sep. 03, 2021	Sep. 02, 2022
Antenna Conducte	d Emission				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 02, 2021	Jul. 01, 2022
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102197	Jul. 02, 2021	Jul. 01, 2022
MXA Signal Analyzer	Agilent	N9020A	MY49100060	Sep. 03, 2021	Sep. 02, 2022
Spectrum Analyzer	KEYSIGT	N9020B	MY60110172	Sep. 03, 2021	Sep. 02, 2022
TIME	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO26	Sep. 03, 2021	Sep. 02, 2022
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO29	Sep. 03, 2021	Sep. 02, 2022
RF Power Sensor	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO31	Sep. 03, 2021	Sep. 02, 2022
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO33	Sep. 03, 2021	Sep. 02, 2022
RF Control Unit	Tonsced	JS0806-2	21F8060439	Sep. 03, 2021	Sep. 02, 2022



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## 5. Conducted Emission

#### 5.1 Test Standard and Limit

5.1.1 Test Standard

FCC Part 15.207

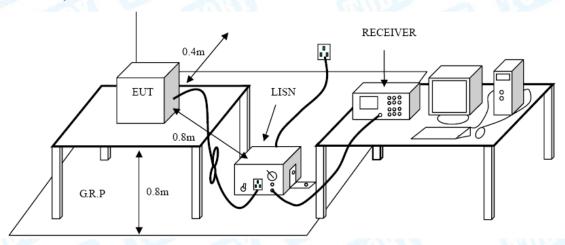
5.1.2 Test Limit

Fragueney	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.

### 5.2 Test Setup



#### 5.3 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.
- ●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 9 kHz, and the test frequency band is from 0.15MHz to 30MHz.



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### 5.4 Deviation From Test Standard

No deviation

## 5.5 EUT Operating Mode

Please refer to the description of test mode.

### 5.6 Test Data

Please refer to the Attachment A inside test report.

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## 6. Radiated and Conducted Unwanted Emissions

#### 6.1 Test Standard and Limit

6.1.1 Test Standard

FCC Part 15.209 & FCC Part 15.247(d)

6.1.2 Test Limit

General field strength limits at frequencies Below 30MHz								
Frequency (MHz)	Field Strength (µA/m)*	Field Strength (microvolt/meter)**	Measurement Distance (meters)					
0.009~0.490	6.37/F (F in kHz)	2400/F(KHz)	300					
0.490~1.705	63.7/F (F in kHz)	24000/F(KHz)	30					
1.705~30.0	0.08	30	30					

Note: 1, The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

2, \*is for RSS Standard, \*\*is for FCC Standard.

General field strength limits at frequencies above 30 MHz									
Frequency	Field strength	Measurement Distance							
(MHz)	(µV/m at 3 m)	(meters)							
30~88	100	3							
88~216	150	3							
216~960	200	3							
Above 960	500	3							

General field	General field strength limits at frequencies Above 1000MHz							
Frequency	Distance of 3	n (dBuV/m)						
(MHz)	Peak	Average						
Above 1000	74	54						

#### Note:

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

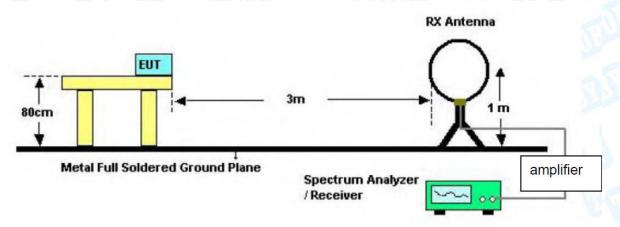
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.



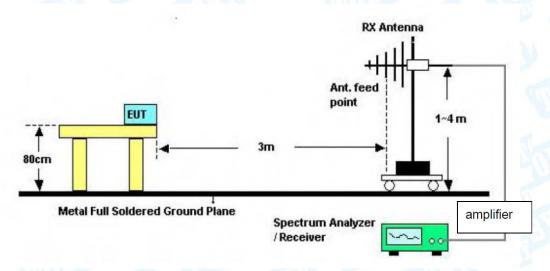
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## 6.2 Test Setup

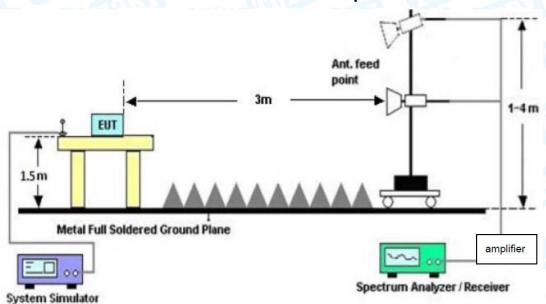
#### Radiated measurement



#### **Below 30MHz Test Setup**



#### **Below 1000MHz Test Setup**

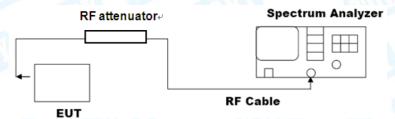


**Above 1GHz Test Setup** 



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#### **Conducted measurement**



#### 6.3 Test Procedure

#### ---Radiated measurement

- The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- 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.
- The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- 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.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Below 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.
- Testing frequency range 30MHz-1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection. Testing frequency range 9KHz-150Hz the measuring instrument use VBW=200Hz with Quasi-peak detection. Testing frequency range 9KHz-30MHz the measuring instrument use VBW=9kHz with Quasi-peak detection.
- 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.
- For the actual test configuration, please see the test setup photo.

#### 6.4 Deviation From Test Standard

No deviation

## 6.5 EUT Operating Mode

Please refer to the description of test mode.

#### 6.6 Test Data

Radiated measurement please refer to the Attachment B inside test report.



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## **Attachment A-- Conducted Emission Test Data**

		18 (18)			
Temperature:	24.2℃	Rel	ative Humidity:	43%	<b>WITTE</b>
Test Voltage:	AC 120V/60Hz		1 Killian		
Terminal:	Line		3	Militar	
Test Mode:	Mode 1	6.00			WDD.
Remark:	Only worse case is	s reported.	ALC:		
30 dBuV		all for the form of the form o	White Mark Mark Mark Mark Mark Mark Mark Mark	QP: AVG:	peak
-20 0.150	0.5	(MHz)	5		30.000
No. Mk.	Reading Freq. Level	Correct Factor	Measure- ment Lim	nit Over	
	MHz dBuV	dB	dBuV dBu	ıV dB	Detector
1 0.	.1700 33.57	11.65	45.22 64.	96 -19.74	QP
2 0.	.1700 18.90	11.65	30.55 54.	96 -24.41	AVG
3 0.	.2740 29.32	11.56	40.88 60.	99 -20.11	QP
4 0.	.2740 16.30	11.56	27.86 50.	99 -23.13	AVG
5 * 0.	.5460 33.40	11.50	44.90 56.	00 -11.10	QP
6 0.	.5460 15.85	11.50	27.35 46.	00 -18.65	AVG
7 1.	.0900 26.45	11.26	37.71 56.	00 -18.29	QP
8 1.	.0900 11.99	11.26	23.25 46.	00 -22.75	AVG
9 2.	.7700 21.12	10.41	31.53 56.	00 -24.47	QP
10 2.	.7700 7.99	10.41	18.40 46.	00 -27.60	AVG
11 15.	.0180 34.39	10.49	44.88 60.	00 -15.12	QP
12 15.	.0180 19.59	10.49	30.08 50.	00 -19.92	AVG

#### Remark:

- 1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)
- 2. Margin (dB) =QuasiPeak/Average (dBuV)-Limit (dBuV)





Temperature:	24.2℃			Relative	Humidity:	43%	
Test Voltage:	AC 120V	//60Hz	10		mil U		
Terminal:	Neutral	CHILL		a V		111	135
Test Mode:	Mode 1		MIN!	7.3	A W	The same	
Remark:	Only wor	rse case is	reported		AS		MO
80.0 dBuV							
						QP: AVG:	_
						ATU.	
<b>X</b>						×	
MMM	Mary Mary			Χ		Market Market	
	איין אייזיע	∼ <sup>™</sup> ₩₩₩₩₩	alah alma adal Malika.	1.0/01kl a.u/05d			
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20	~_WM\/\\	paramethy Mynna	Mushin Marina a sa	or which was	What was a second	ring show by the following the way	Warney or
1 1 2001	~~\/\/\/\/\/\		New Johnson	Marine Call Control	Warner -	rely reported by the stranger	Dr.
1 1 2001	~		All had been and a set	Control of the second	Warner of the second	ret, storosto de la constitución	De Al
1 1 2001			And had been and	Control of the second		and the second second	De De
1 1 2001			All I be here here	And the second control of the second control		na produce de la constitución de	Dr.
1 1 2001			April Jah Janes Andrews		Warner of the second	view of the second second second	Dr.
1 1 2001	0.5		(MHz)		5	on when the property of the second	De De

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1740	34.01	11.25	45.26	64.76	-19.50	QP
2		0.1740	18.64	11.25	29.89	54.76	-24.87	AVG
3		0.4300	29.44	11.05	40.49	57.25	-16.76	QP
4		0.4300	16.49	11.05	27.54	47.25	-19.71	AVG
5	*	0.5420	32.36	11.01	43.37	56.00	-12.63	QP
6		0.5420	10.72	11.01	21.73	46.00	-24.27	AVG
7		1.0220	24.22	10.77	34.99	56.00	-21.01	QP
8		1.0220	10.28	10.77	21.05	46.00	-24.95	AVG
9		2.7180	22.07	10.26	32.33	56.00	-23.67	QP
10		2.7180	9.55	10.26	19.81	46.00	-26.19	AVG
11		13.8020	33.04	9.93	42.97	60.00	-17.03	QP
12		13.8020	17.42	9.93	27.35	50.00	-22.65	AVG

- Remark:
  1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)
- 2. Margin (dB) =QuasiPeak/Average (dBuV)-Limit (dBuV)





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## **Attachment B--Unwanted Emissions Data**

#### --- Radiated Unwanted Emissions

#### 9 KHz~30 MHz

From 9 KHz to 30 MHz: Conclusion: PASS

Note: The amplitude of spurious emissions which are attenuated by more than 20dB

Below the permissible value has no need to be reported.

#### 30MHz~1GHz

	ture:	24.3℃			Relative Hu	ımidity:	45%	13.5
est Volt	tage:	AC 12	0V/60Hz		CHILL		Also	
Ant. Pol.		Horizo	ontal			an ba		1 81
Test Mod	de:	Mode	2	NU				
Remark:		Only v	vorse case	is reported.	1000		A BUCK	
80.0 dBu	ıV/m							
70								
60						(RF)FCC 15	C 3M Radiation	
50						Margin -6 di	В	
40				2		_		
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10	harman de	All Maria	MAN WANTER					
	the last of the state of the st	" r \/ e v/	,44/^ <b>1</b>					
0	the south the second second	1 1 M m	JAN <sup>A</sup> M <sub>adan</sub> ,					
0 -10	harantak arang karantak bara	ANIALI.	JW/W suh n.					
0	Language and the second second	60.00	144 M Law 21	(MHz)	300.	00		1000.00
0 -10 -20		60.00				I	Margin	1000.00
0 -10 -20	Frequ	60.00 uency	Reading	Factor	Level	Limit	Margin (dB)	1000.00
-10 -20 30.000	Frequ (Mi	uency Hz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	(dB)	Detector
0 -10 -20 30.000 No.	Frequ (MI	60.00 Jency Hz)	Reading (dBuV) 55.27	Factor (dB/m)	Level (dBuV/m) 31.15	Limit (dBuV/m) 40.00	(dB) -8.85	Detector peak
0 -10 -20 30.000 No.	Frequ (Ml 67.4	ency Hz) 382	Reading (dBuV) 55.27 60.75	Factor (dB/m) -24.12 -23.29	Level (dBuV/m) 31.15 37.46	Limit (dBuV/m) 40.00 43.50	(dB) -8.85 -6.04	Detector peak peak
No.	Frequ (MI 67.4 119.8	uency Hz) 382 8556 3301	Reading (dBuV) 55.27 60.75 53.57	Factor (dB/m) -24.12 -23.29 -21.78	Level (dBuV/m) 31.15 37.46 31.79	Limit (dBuV/m) 40.00 43.50 43.50	(dB) -8.85 -6.04 -11.71	Detector peak peak peak
0 -10 -20 30.000 No.	Frequ (Ml 67.4	uency Hz) 382 8556 3301 2678	Reading (dBuV) 55.27 60.75	Factor (dB/m) -24.12 -23.29	Level (dBuV/m) 31.15 37.46	Limit (dBuV/m) 40.00 43.50	(dB) -8.85 -6.04	Detector peak peak

<sup>\*:</sup>Maximum data x:Over limit !:over margin

#### Remark:

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. QuasiPeak (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = QuasiPeak (dB $\mu$ V/m)-Limit QPK(dB $\mu$ V/m)





Tempera	ature:	24.3℃		R	elative Hun	nidity:	15%	
Test Vol	tage:	AC 12	0V/60Hz					
Ant. Pol		Vertica	al		av		N.	
Test Mo	de:	Mode	2			J HII		
Remark	:	Only v	vorse case	is reported.		3		M. D.
80.0 dB	BuV/m							
70								
60						(RF)FCC 15	C 3M Radiatio	n
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10			(leviletal)					
0								
-10								
-20								
30.000		60.00		(MHz)	300	.00		1000.00
	Fregi	uency	Reading	Factor	Level	Limit	Margin	
No.		Hz)	(dBuV)	(dB/m)	(dBuV/m)		(dB)	Detector
1	<u> </u>	0007	56.61	-23.06	33.55	40.00	-6.45	peak
2!	-	3588	59.06	-23.59	35.47	40.00	-4.53	QP
3 *		2662	60.89	-24.04	36.85	40.00	-3.15	QP
4		8556	57.96	-23.29	34.67	43.50	-8.83	peak
5		6516	50.25	-22.75	27.50	43.50	-16.00	peak
6	325.	5958	47.84	-20.23	27.61	46.00	-18.39	peak

<sup>\*:</sup>Maximum data x:Over limit !:over margin

#### Remark:

- Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
   QuasiPeak (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = QuasiPeak (dB $\mu$ V/m)-Limit QPK(dB $\mu$ V/m)

**END OF REPORT-**