

Shenzhen Toby Technology Co., Ltd.

Report No.: TBR-C-202311-0214-3

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Radio Test Report

FCC ID: 2A4MW-MWE813

Report No. : TBR-C-202311-0214-3

Applicant: Marvel Technology(China) Co., Ltd

Equipment Under Test (EUT)

EUT Name : Floor Standing Advertizing Digital Signage

Model No. : MWE813

Series Model No. : MWE831, MWE832, MWE956

Brand Name : (

Sample ID : 202311-0214-1-1# & 202311-0214-1-2#

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Receipt Date : 2023-11-21

Test Date : 2023-11-21 to 2023-11-25

Issue Date : 2023-11-25

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 :

Engineer Supervisor : JWW SV

Engineer Manager :

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-202311-0214-3	Rev.01	Initial issue of report	2023-11-25
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	(10B)		
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1. General Information about EUT

1.1 Client Information

Applicant :		Marvel Technology(China) Co., Ltd	
Address	1	Block 14, Longbi Industrial Park, No 27 Dafa Rd, Bantian LongGang District, Shenzhen, China	
Manufacturer : Marvel Technology(China) Co., Ltd		Marvel Technology(China) Co., Ltd	
Address		Block 14, Longbi Industrial Park, No 27 Dafa Rd, Bantian LongGang District, Shenzhen, China	

1.2 General Description of EUT (Equipment Under Test)

EUT Name	÷	Floor Standing Advertizing Digital Signage			
Models No.		MWE813, MWE831, MWE832, MWE956			
Model Different	cuit diagrams are the same, the only lames.				
		Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz-2452MHz		
Product Description		Number of Channel:	802.11b/g/n(HT20): 11 channels 802.11n(HT40): 7 channels		
Description		Antenna Gain:	5.98dBi PCB antenna		
EOR12		Modulation Type:	802.11b: DSSS (DQPSK, DBPSK, CCK) 802.11g: OFDM (BPSK, QPSK,16QAM, 64QAM) 802.11n: OFDM (BPSK, QPSK,16QAM, 64QAM)		
Power Rating		: Input: AC 110V~220V			
Software Version					
Hardware Version		:			

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.



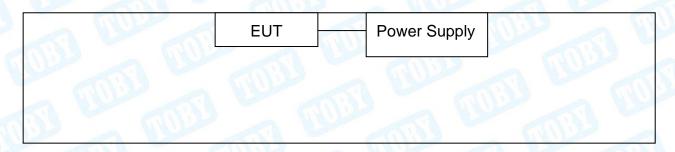
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(4) Channel List:

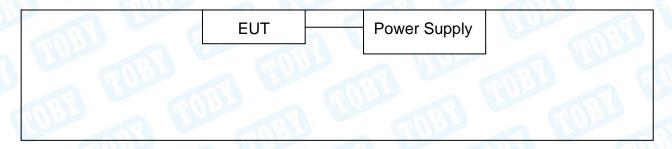
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)		
01	2412	05	2432	09	2452		
02	2417	06	2437	10	2457		
03	2422	07	2442	11	2462		
04	2427	80	2447				
Note: CH 01~CH 11 for 802.11b/g/n(HT20); CH 03~CH 09 for 802.11n(HT40)							

1.3 Block Diagram Showing the Configuration of System Tested

Conducted Test



Radiated Test



1.4 Description of Support Units

Equipment Information								
Name Model FCC ID/SDOC Manufacturer Used "V								
	44.037							
Cable Information								
Number	Shielded Type	Ferrite Core	Length	Note				



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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 Emission Test					
Final Test Mode	Description				
Mode 1	TX b Mode Channel 01				
Fo	r Radiated and RF Conducted Test				
Final Test Mode	Description				
Mode 2	TX Mode b Mode Channel 01/06/11				
Mode 3 TX Mode g Mode Channel 01/06/11					
Mode 4	TX Mode n(HT20) Mode Channel 01/06/11				
Mode 5 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 802.11g Mode: OFDM

802.11n (HT20) Mode: MCS 8 802.11n (HT40) Mode: MCS 8

- (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.



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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: SecureCRT					
	Test Mode: Continuously transmitting				
Mode	Data Rate	Channel	Parameters		
	CCK/ 1Mbps	01	44		
802.11b	CCK/ 1Mbps	06	47		
	CCK/ 1Mbps	11	54		
MULL	OFDM/ 6Mbps	01	46		
802.11g	OFDM/ 6Mbps	06	60		
	OFDM/ 6Mbps	11	49		
MILL	MCS 8	01	46		
802.11n(HT20)	MCS 8	06	62		
	MCS 8	11	50		
	MCS 8	03	44		
802.11n(HT40)	MCS 8	06	62		
	MCS 8	09	48		



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1.7 Measurement Uncertainty

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

Test Item	Parameters	Expanded Uncertainty (U _{Lab})
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

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.



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2. Test Summary

Standard Section		-		
FCC	Test Item	Test Sample(s)	Judgment	Remark
FCC 15.207(a)	Conducted Emission	202311-0214-1-1#	PASS	N/A
FCC 15.209 & 15.247(d)	Radiated Unwanted Emissions	202311-0214-1-1#	PASS	N/A
FCC 15.203	Antenna Requirement	202311-0214-1-2#	PASS	N/A
FCC 15.247(a)(2)	6dB Bandwidth	202311-0214-1-2#	PASS	N/A
1	99% Occupied bandwidth	202311-0214-1-2#	PASS	N/A
FCC 15.247(b)(3)	RF Output Power and E.I.R.P	202311-0214-1-2#	PASS	N/A
FCC 15.247(e)	Power Spectral Density	202311-0214-1-2#	PASS	N/A
FCC 15.247(d)	Band Edge Measurements	202311-0214-1-2#	PASS	N/A
FCC 15.207(a)	Conducted Unwanted Emissions	202311-0214-1-2#	PASS	N/A
FCC 15.247(d)	Emissions in Restricted Bands	202311-0214-1-2#	PASS	N/A
	On Time and Duty Cycle	202311-0214-1-2#		N/A

3. Test Software

Test Item	Test Software	Manufacturer	Version No.
Conducted Emission	EZ-EMC	EZ	CDI-03A2
Radiation Emission	EZ-EMC	EZ	FA-03A2RE
Radiation Emission	EZ-EMC	EZ	FA-03A2RE+
RF Conducted Measurement	MTS-8310	MWRFtest	V2.0.0.0
RF Test System	JS1120	Tonscend	V3.2.22



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4. Test Equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jun. 20, 2023	Jun. 19, 2024
13000	Compliance		1000		
RF Switching Unit	Direction Systems	RSU-A4	34403	Jun. 20, 2023	Jun. 19, 2024
	Inc			650	(1)
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jun. 20, 2023	Jun. 19, 2024
LISN	Rohde & Schwarz	ENV216	101131	Jun. 20, 2023	Jun. 19, 2024
ISN	SCHWARZBECK	NTFM 8131	8131-193	Jun. 20, 2023	Jun. 19, 2024
ISN	SCHWARZBECK	CAT3 8158	cat3 5158-0094	Jun. 20, 2023	Jun. 19, 2024
ISN	SCHWARZBECK	NTFM5158	NTFM5158 0145	Jun. 06, 2023	Jun. 05, 2024
ISN	SCHWARZBECK	CAT 8158	cat5 8158-179	Jun. 20, 2023	Jun. 19, 2024
Radiation Emissi	on Test (B Site)				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100060	Aug. 30, 2023	Aug. 29, 2024
Spectrum	Dah da 8 Oahusan	F0\/40 N	400407	l 00, 0000	l 40, 0004
Analyzer	Rohde & Schwarz	FSV40-N	102197	Jun. 20, 2023	Jun. 19, 2024
EMI Test Receiver	Rohde & Schwarz	ESU-8	100472/008	Feb. 23, 2023	Feb.22, 2024
Bilog Antenna	SCHWARZBECK	VULB 9168	1225	Dec. 05, 2021	Dec. 04, 2023
Horn Antenna	SCHWARZBECK	BBHA 9120 D	2463	Feb. 26, 2022	Feb.25, 2024
Horn Antenna	SCHWARZBECK	BBHA 9170	1118	Jun. 26, 2022	Jun.25, 2024
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-059	Jun. 26, 2022	Jun.25, 2024
HF Amplifier	Tonscend	TAP9E6343	AP21C806117	Aug. 30, 2023	Aug. 29, 2024
HF Amplifier	Tonscend	TAP051845	AP21C806141	Aug. 30, 2023	Aug. 29, 2024
HF Amplifier	Tonscend	TAP0184050	AP21C806129	Aug. 30, 2023	Aug. 29, 2024
Highpass Filter	CD	HPM-6.4/18G		N/A	N/A
Highpass Filter	CD	HPM-2.8/18G		N/A	N/A
Highpass Filter	XINBO	XBLBQ-HTA67(8-25G)	22052702-1	N/A	N/A
Antenna Conduc	ted Emission				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jun. 20, 2023	Jun. 19, 2024
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102197	Jun. 20, 2023	Jun. 19, 2024
MXA Signal Analyzer	KEYSIGHT	N9020B	MY60110172	Aug. 30, 2023	Aug. 29, 2024



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MXA Signal Analyzer	Agilent	N9020A	MY47380425	Aug. 30, 2023	Aug. 29, 2024
Vector Signal Generator	Agilent	N5182A	MY50141294	Aug. 30, 2023	Aug. 29, 2024
Analog Signal Generator	Agilent	N5181A	MY48180463	Aug. 30, 2023	Aug. 29, 2024
Vector Signal Generator	KEYSIGHT	N5182B	MY59101429	Aug. 30, 2023	Aug. 29, 2024
Analog Signal Generator	KEYSIGHT	N5173B	MY61252685	Aug. 30, 2023	Aug. 29, 2024
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO26	Aug. 30, 2023	Aug. 29, 2024
DE Davis Casas	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO29	Aug. 30, 2023	Aug. 29, 2024
RF Power Sensor	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO31	Aug. 30, 2023	Aug. 29, 2024
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO33	Aug. 30, 2023	Aug. 29, 2024
RF Control Unit	Tonsced	JS0806-1	21C8060380	N/A	N/A
RF Control Unit	Tonsced	JS0806-2	21F8060439	Aug. 30, 2023	Aug. 29, 2024
Power Control Box	Tonsced	JS0806-4ADC	21C8060387	N/A	N/A
Wideband Radio	Rohde & Schwarz	CMW500	144382	Aug. 30, 2023	Aug. 29, 2024
Comunication Tester	Nonde & Schwarz	CIVIVVOOO	144302	Aug. 50, 2025	Aug. 29, 2024
Universal Radio	Dahda 9 Cahurana	CMANAGOO	400700	Fab 00 0000	Fab 22 2024
Communication Tester	Rohde&Schwarz	CMW500	168796	Feb. 23, 2023	Feb.22, 2024
Temperature and	ZhengHang	ZH-QTH-1500	ZH2107264	Jun. 20, 2023	Jun. 19, 2024
Humidity Chamber	Zilongilang	211 3111 1000	2112101207	5dri. 20, 2020	Juli. 10, 2024



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5. Conducted Emission Test

5.1 Test Standard and Limit

5.1.1 Test Standard

FCC Part 15.207

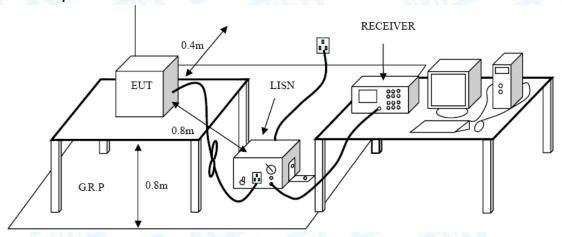
5.1.2 Test Limit

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.



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

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 (MHz)	Field strength (µV/m at 3 m)	Measurement Distance (meters)	
30~88	100	3	
88~216	150	3	
216~960	200	3	
Above 960	500	3	

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

Note:

(1) The tighter limit applies at the band edges.

(2) Emission Level(dBuV/m)=20log Emission Level(uV/m)

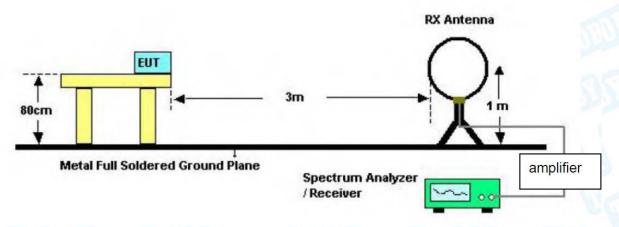
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either 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.



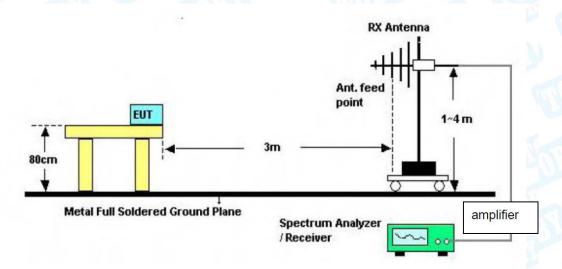
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6.2 Test Setup

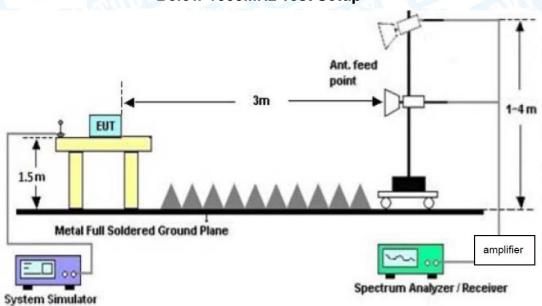
Radiated measurement



Below 30MHz Test Setup



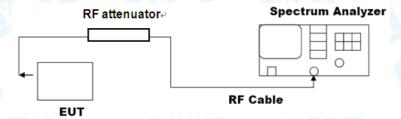
Below 1000MHz Test Setup





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Above 1GHz Test Setup 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.



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--- Conducted measurement

Reference level measurement

Establish a reference level by using the following procedure:

- a) Set instrument center frequency to DTS channel center frequency.
- b) Set the span to≥1.5 times the DTS bandwidth.
- c) Set the RBW = 100 kHz.
- d) Set the VBW≥[3*RBW].
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

Emission level measurement

Establish an emission level by using the following procedure:

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100 kHz.
- c) Set the VBW≥[3*RBW].
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

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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7. Restricted Bands and Band Edge Requirement

7.1 Test Standard and Limit

7.1.1 Test Standard

FCC Part 15.205 & FCC Part 15.247(d)

7.1.2 Test Limit

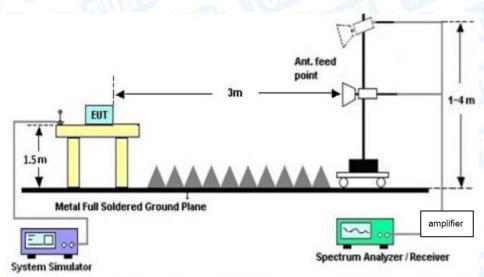
Restricted Frequency	Distance Meters(at 3m)		
Band (MHz)	Peak (dBuV/m)	Average (dBuV/m)	
2310 ~2390	74	54	
2483.5 ~2500	74	54	
	Peak (dBm)see 7.3 e)	Average (dBm) see 7.3 e)	
2310 ~2390	-21.20	-41.20	
2483.5 ~2500	-21.20	-41.20	

Note: According the ANSI C63.10 11.12.2 antenna-port conducted measurements may also be used as an alternative to radiated measurements for determining compliance in the restricted frequency bands requirements. If conducted measurements are performed, then proper impedance matching must be ensured and an additional radiated test forcabinet/case emissions is required.

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.

7.2 Test Setup

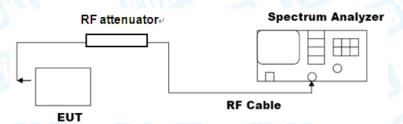
Radiated measurement



Conducted measurement



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7.3 Test Procedure

---Radiated measurement

- 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.
- ●The Peak Value and average value both need to comply with applicable limit above 1 GHz.
- ●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.

--- Conducted measurement

- a) Measure the conducted output power (in dBm) using the detector specified by the appropriate regulatory agency (see 11.12.2.3 through 11.12.2.5 for guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).
- b) Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP (see 11.12.2.6 for guidance on determining the applicable antenna gain).
- c) Add the appropriate maximum ground reflection factor to the EIRP (6 dB for frequencies ≤30 MHz; 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive; and 0 dB for frequencies > 1000 MHz).
- d) For MIMO devices, measure the power of each chain and sum the EIRP of all chains in linear terms (i.e., watts and mW).



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e) Convert the resultant EIRP to an equivalent electric field strength using the following relationship:

 $E = EIRP-20 \log d + 104.8$

where

E is the electric field strength in dBuV/m

EIRP is the equivalent isotropically radiated power in dBm

d is the specified measurement distance in m

- f) Compare the resultant electric field strength level with the applicable regulatory limit.
- g) Perform the radiated spurious emission test.

7.4 Deviation From Test Standard

No deviation

7.5 EUT Operating Mode

Please refer to the description of test mode.

7.6 Test Data

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



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8. Bandwidth Test

8.1 Test Standard and Limit

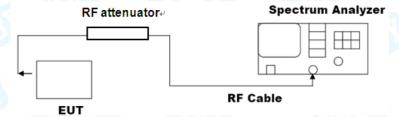
8.1.1 Test Standard

FCC Part 15.205 & FCC Part 15.247(d)

8.1.2 Test Limit

Test Item	Limit	Frequency Range(MHz)	
-6dB bandwidth	>=500 KHz	2400~2483.5	
(DTS bandwidth)	>=300 KHZ 2400~2483.	2400~2403.3	
99% occupied bandwidth		2400~2483.5	

8.2 Test Setup



8.3 Test Procedure

--- DTS bandwidth

- The steps for the first option are as follows:
- a) Set RBW = 100 kHz.
- b) Set the VBW≥[3*RBW].
- c) Detector = peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

---occupied bandwidth

- The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:
- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.



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b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.

- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
- h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

8.4 Deviation From Test Standard

No deviation

8.5 EUT Operating Mode

Please refer to the description of test mode.

8.6 Test Data



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9. RF Output Power

9.1 Test Standard and Limit

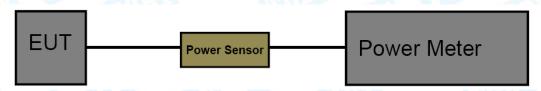
9.1.1 Test Standard

FCC Part 15.247(b)(3)

9.1.2 Test Limit

Test Item	Limit	Frequency Range(MHz)
Peak Output Power	not exceed 1 W or 30dBm	2400 2402 5
E.I.R.P	not exceed 4 W or 36dBm	2400~2483.5

9.2 Test Setup



9.3 Test Procedure

● The EUT was connected to RF power meter via a broadband power sensor as show the block above. The power sensor video bandwidth is greater than or equal to the DTS bandwidth of the equipment.

9.4 Deviation From Test Standard

No deviation

9.5 EUT Operating Mode

Please refer to the description of test mode.

9.6 Test Data



Page: 25 of 70

10. Power Spectral Density

10.1 Test Standard and Limit

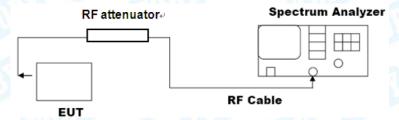
10.1.1 Test Standard

FCC Part 15.247(e)

10.1.2 Test Limit

Test Item	Limit	Frequency Range(MHz)
Power Spectral Density	8dBm(in any 3 kHz)	2400~2483.5

10.2 Test Setup



10.3 Test Procedure

- The following procedure shall be used if maximum peak conducted output power was used to determine compliance, and it is optional if the maximum conducted (average) output power was used to determine compliance:
- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to 3 kHz≤RBW≤100 kHz.
- d) Set the VBW ≥[3*RBW].
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

10.4 Deviation From Test Standard

No deviation

10.5 Antenna Connected Construction

Please refer to the description of test mode.

10.6 Test Data



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11. Antenna Requirement

11.1 Test Standard and Limit

11.1.1 Test Standard

FCC Part 15.203

11.1.2 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.

11.2 Deviation From Test Standard

No deviation

11.3 Antenna Connected Construction

The Max. gains of the antenna used for transmitting is 5.98dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

11.4 Test Data

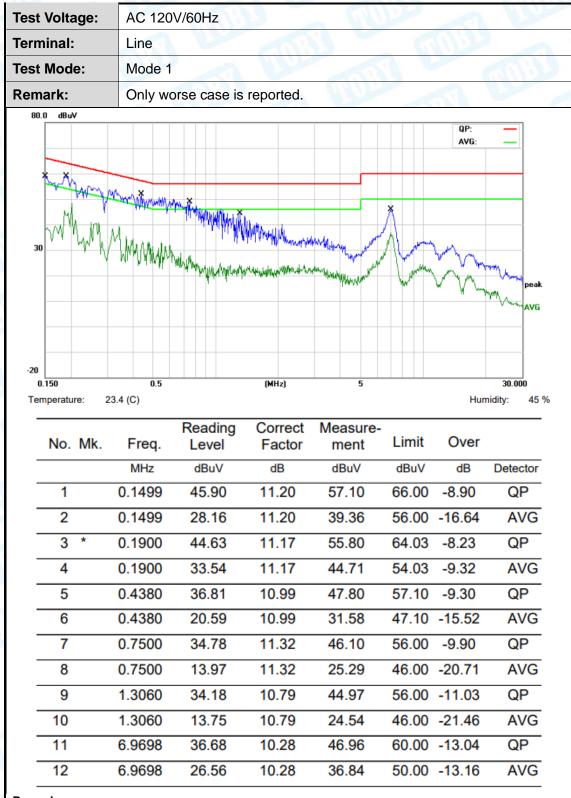
The EUT antenna is a PCB Antenna. It complies with the standard requirement.

Antenna Type	
⊠Permanent attached antenna	CHO.
Unique connector antenna	
☐Professional installation antenna	Miles



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Attachment A-- Conducted Emission Test Data



Remark:

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



Humidity:

45 %



Test Voltage:	AC 120V/60Hz	
Terminal:	Neutral	
Test Mode:	Mode 1	
Remark:	Only worse case is reported.	
30	Car happarande papel of the supple profit of the su	QP: AVG: peak AVG
-20 0.150	0.5 (MHz)	5 30.000

			Reading	Correct	Measure-			
No.	Mk.	Freq.	Level	Factor	ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1500	41.22	11.20	52.42	65.99	-13.57	QP
2		0.1500	26.76	11.20	37.96	55.99	-18.03	AVG
3	*	0.1900	46.24	11.17	57.41	64.03	-6.62	QP
4		0.1900	30.83	11.17	42.00	54.03	-12.03	AVG
5		0.2020	45.48	11.17	56.65	63.52	-6.87	QP
6		0.2020	30.57	11.17	41.74	53.52	-11.78	AVG
7		0.3260	37.32	11.28	48.60	59.55	-10.95	QP
8		0.3260	21.60	11.28	32.88	49.55	-16.67	AVG
9		6.9700	32.87	10.28	43.15	60.00	-16.85	QP
10		6.9700	23.58	10.28	33.86	50.00	-16.14	AVG
11		10.8060	17.43	10.39	27.82	60.00	-32.18	QP
12		10.8060	8.81	10.39	19.20	50.00	-30.80	AVG

Temperature:

23.4 (C)

- 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

Tempera	ature:	24.3°	C	Washington, and the same of th	Relative Hu	ımidity:	45%	The same of the sa
Test Vol	tage:	AC 1	20V/60Hz		Carried States			
Ant. Pol		Horiz	ontal	Militar				
Test Mo	de:	Mode	1		1000		THE PARTY OF	
Remark: Only			worse case	is reported.		11:30		WILL
80.0	dBuV/m							
70								
60					(BE)FCC 15C 3M I	Radiation	
50						gin -6 dB	radiation	<u></u>
40	1.			¥		4 *	5 X	X
30	Å		2					peal
20			My .	angologisha pilliplomera	بالسهدياميس العيادسي	many by baylepare	Land Land	
10	V	Jack Market	(a) "Alyyl ^{ad} ir.	ududu.				
0								
-10								
-20 30.0	100	60.	nn	(MHz	301	D. 00		1000.000
Tempera	ture: 24.3 °			•	, 55		Humidit	ty: 45 %
No.	Freque (MH		Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1!	42.74	94	57.89	-22.86	35.03	40.00	-4.97	peak
2	74.13	50	47.73	-23.51	24.22	40.00	-15.78	peak
3 *	148.44	110	59.39	-20.09	39.30	43.50	-4.20	peak
4	372.00)45	58.08	-18.99	39.09	46.00	-6.91	peak
				44.00	40.40	40.00	F 07	الم م ماد
5!	668.14	122	52.02	-11.89	40.13	46.00	-5.87	peak

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 μ V/m)-Limit QPK(dB μ V/m)



Report No.: TBR-C-202311-0214-3 Page: 30 of 70

Temperature:	24.3℃ Relative Hu	imidity: 45%
Test Voltage:	AC 120V/60Hz	The state of the s
Ant. Pol.	Vertical	
Test Mode:	Mode 1	
Remark:	Only worse case is reported.	
80.0 dBuV/m		
70 60 50 40 30 20 10 0		F)FCC 15C 3M Radiation argin -6 dB
30.000	60.00 (MHz) 30	00.00 1000.000
Temperature: 24.3	℃	Humidity: 45 %

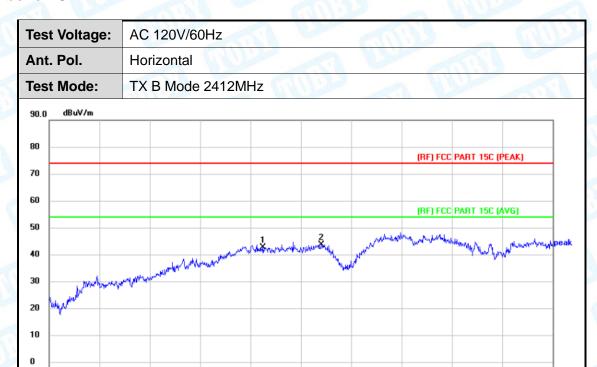
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1!	42.7495	57.29	-22.86	34.43	40.00	-5.57	peak
2!	74.1351	58.29	-23.51	34.78	40.00	-5.22	peak
3 *	148.4410	59.61	-20.09	39.52	43.50	-3.98	peak
4	222.9502	59.30	-21.34	37.96	46.00	-8.04	peak
5!	372.0045	60.59	-18.99	41.60	46.00	-4.40	peak
6!	893.8566	49.33	-7.75	41.58	46.00	-4.42	peak

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



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Above 1GHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11837.500	43.54	-0.83	42.71	74.00	-31.29	peak
2 *	14795.500	42.98	0.60	43.58	74.00	-30.42	peak

(MHz)

16300.00 18850.00 21400.00

23950.00

Humidity: 51 %

Remark:

-10

1000.000 3550.00

Temperature:

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)

8650.00

11200.00

6100.00

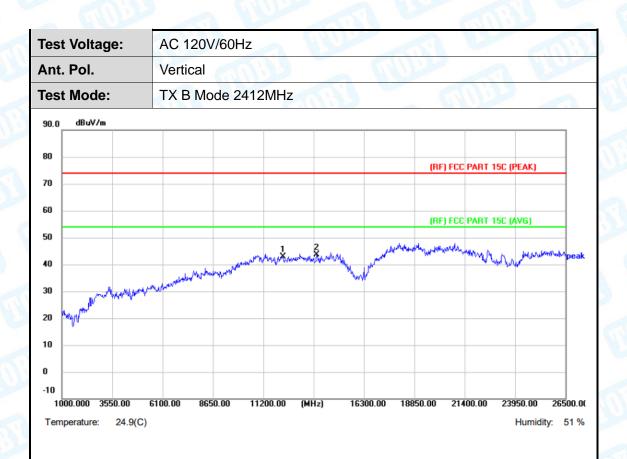
24.9(C)

4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

- 5. No report for the emission which below the prescribed limit.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.



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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	12194.500	43.60	-0.68	42.92	74.00	-31.08	peak
2 *	13903.000	42.94	0.76	43.70	74.00	-30.30	peak

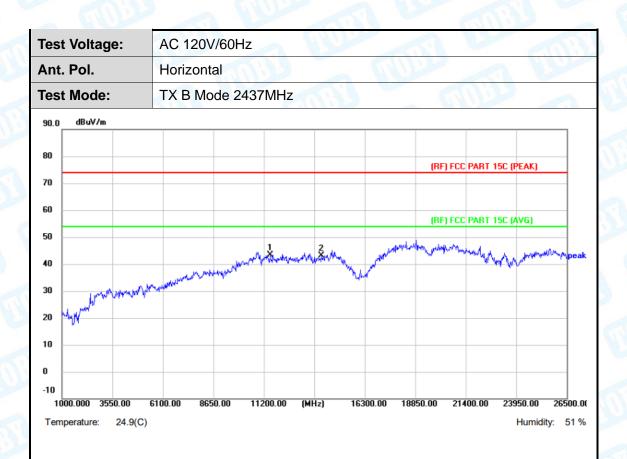
Remark

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)
- 4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

- 5. No report for the emission which below the prescribed limit.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.



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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	11506.000	44.43	-0.93	43.50	74.00	-30.50	peak
2	14107.000	43.16	-0.10	43.06	74.00	-30.94	peak

Remark

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)
- 4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

- 5. No report for the emission which below the prescribed limit.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.



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Test Voltage: AC 120V/60Hz					
nt. Pol.	Vertical				
est Mode:	TX B Mode 2437MHz				
0.0 dBuV/m					
0					
0	(RF) FCC PART 15C (PEAK)				
0	(05) 500 0407 450 (490)				
0	(RF) FCC PART 15C (AVG)				
0	The state of the s				
O WANTER AND					
o Mydull					
0					
10 1000.000 3550.00 E	S100.00 8650.00 11200.00 (MHz) 16300.00 18850.00 21400.00 23950.00 26500.0				

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	11353.000	44.30	-1.01	43.29	74.00	-30.71	peak
2 *	13393.000	44.77	0.16	44.93	74.00	-29.07	peak

Remark:

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m) 4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the

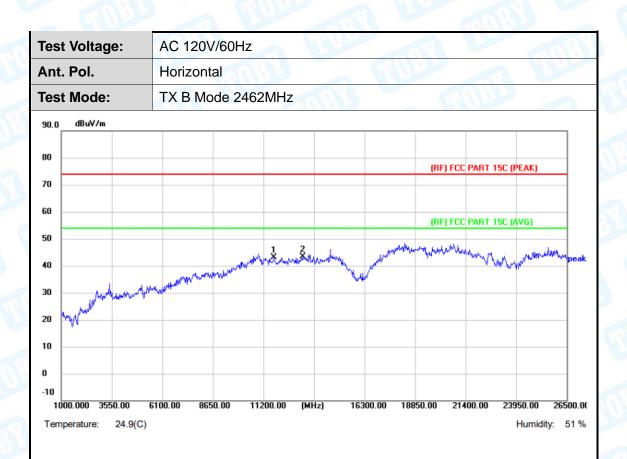
highest fundamental frequency.

Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.

- 5. No report for the emission which below the prescribed limit.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.



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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11735.500	43.99	-0.98	43.01	74.00	-30.99	peak
2 *	13189.000	43.57	-0.09	43.48	74.00	-30.52	peak

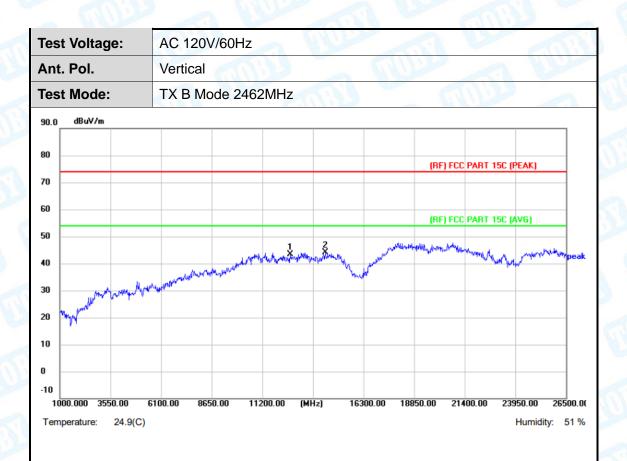
Remark:

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)
- 4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

- 5. No report for the emission which below the prescribed limit.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.



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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	12602.500	43.58	-0.17	43.41	74.00	-30.59	peak
2 *	14362.000	43.63	0.58	44.21	74.00	-29.79	peak

Remark

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. Peak/AVG (dBµV/m)= Corr. (dB/m)+ Read Level (dBµV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)
- 4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

- 5. No report for the emission which below the prescribed limit.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.



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Test Voltage:	AC 120V/60Hz
Ant. Pol.	Horizontal
Test Mode:	TX G Mode 2412MHz
90.0 dBuV/m	
80	
70	(RF) FCC PART 15C (PEAK)
60	(RF) FCC PART 15C (AVG)
50	
10	was a second of the second of
30 Juntary Marchael	WALL STATE OF THE
20	
10	
0	
-10 1000.000 3550.00	6100.00 8650.00 11200.00 (MHz) 16300.00 18850.00 21400.00 23950.00 26500.0

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	12092.500	43.57	-0.43	43.14	74.00	-30.86	peak
2 *	14540.500	42.92	0.65	43.57	74.00	-30.43	peak

Remark:

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

- Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
 Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)
 The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the

highest fundamental frequency.
Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.

- 5. No report for the emission which below the prescribed limit.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.



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est Voltage:	AC 120V/60Hz
nt. Pol.	Vertical
est Mode:	TX G Mode 2412MHz
0.0 dBuV/m	
80	
ro l	(RF) FCC PART 15C (PEAK)
60	(RF) FCC PART 15C (AVG)
60	and the formation of the same
30 Martines	when the property of the prope
0 W	
0	
10 1000.000 3550.00	6100.00 8650.00 11200.00 (MHz) 16300.00 18850.00 21400.00 23950.00 26500.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	11302.000	45.91	-1.09	44.82	74.00	-29.18	peak
2	12628.000	44.03	-0.16	43.87	74.00	-30.13	peak

Remark:

- Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
 Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
 Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)
 The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental fragrander. highest fundamental frequency.

Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.

- 5. No report for the emission which below the prescribed limit.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.



39 of 70 Page:

Horizontal
TX G Mode 2437MHz
(RF) FCC PART 15C (PEAK)
(RF) FCC PART 15C (AVG)
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may are the frequency and the second
6100.00 8650.00 11200.00 (MHz) 16300.00 18850.00 21400.00 23950.00 26500.0

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	12118.000	43.54	-0.46	43.08	74.00	-30.92	peak
2 *	13163.500	44.09	-0.07	44.02	74.00	-29.98	peak

Remark:

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

- Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
 Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)
 The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.
 Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise,

- 5. No report for the emission which below the prescribed limit.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.



40 of 70 Page:

Vertical	
TX G Mode 2437MHz	
	(RF) FCC PART 15C (PEAK)
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	(RF) FCC PART 15C (AVG)
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pr. syp.	
	AC 120V/60Hz Vertical TX G Mode 2437MHz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	12143.500	43.85	-0.53	43.32	74.00	-30.68	peak
2	13699.000	42.63	0.15	42.78	74.00	-31.22	peak

Remark:

- Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
 Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
 Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)
 The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental fragrander. highest fundamental frequency.

Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.

- 5. No report for the emission which below the prescribed limit.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.



Report No.: TBR-C-202311-0214-3 Page: 41 of 70

Test Voltage:	AC 120V/60Hz
Ant. Pol.	Horizontal
Test Mode:	TX G Mode 2462MHz
90.0 dBuV/m	
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60	(RF) FCC PART 15C (AVG)
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	6100.00 8650.00 11200.00 (MHz) 16300.00 18850.00 21400.00 23950.00 26500

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	12653.500	43.52	-0.17	43.35	74.00	-30.65	peak
2 *	14209.000	43.83	0.05	43.88	74.00	-30.12	peak

Remark:

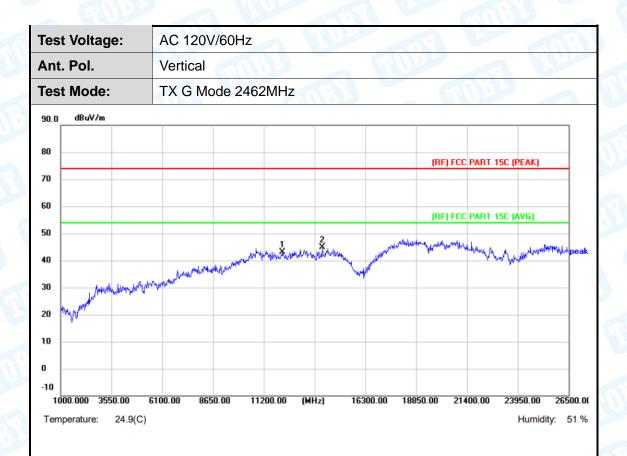
- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

- Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
 Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)
 The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.
 Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise,

- 5. No report for the emission which below the prescribed limit.6. The average measurement was not performed when the peak measured data under the limit of average detection.



Page: 42 of 70



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	12118.000	43.51	-0.46	43.05	74.00	-30.95	peak
2 *	14132.500	44.86	-0.06	44.80	74.00	-29.20	peak

Remark:

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)
- 4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.

- 5. No report for the emission which below the prescribed limit.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.



Report No.: TBR-C-202311-0214-3 Page: 43 of 70

est Voltage:	AC 120V/60Hz
Ant. Pol.	Horizontal
est Mode:	TX n(HT20) Mode 2412MHz
90.0 dBuV/m	
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60	(RF) FCC PART 15C (AVG)
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)	
1000.000 3550.00	6100.00 8650.00 11200.00 (MHz) 16300.00 18850.00 21400.00 23950.00 26500.0

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	12730.000	43.74	-0.24	43.50	74.00	-30.50	peak
2 *	14438.500	43.55	0.73	44.28	74.00	-29.72	peak

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)
- 4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the

highest fundamental frequency.
Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.

- 5. No report for the emission which below the prescribed limit.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.



44 of 70 Page:

Vertical
TX n(HT20) Mode 2412MHz
(RF) FCC PART 15C (PEAK)
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(RF) FCC PART 15C (AVG)
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Indian Marketinian Control of the Co
6100.00 8650.00 11200.00 (MHz) 16300.00 18850.00 21400.00 23950.00 26500.00

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	12092.500	43.99	-0.43	43.56	74.00	-30.44	peak
2 *	14387.500	43.98	0.76	44.74	74.00	-29.26	peak

- Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
 Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)
- 4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

 Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise,

- 5. No report for the emission which below the prescribed limit.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.



Report No.: TBR-C-202311-0214-3 Page: 45 of 70

Test	Voltage:	AC 120	V/60Hz							
Ant.	Pol.	Horizon	tal	33			1)	-	MA	
Гest	Mode:	TX n(HT	Г20) Mod	de 2437N	ИHz		61	UPP		n.
90.0	dBuV/m									1
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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	12067.000	43.75	-0.48	43.27	74.00	-30.73	peak
2 *	14668.000	42.97	0.85	43.82	74.00	-30.18	peak

Remark:

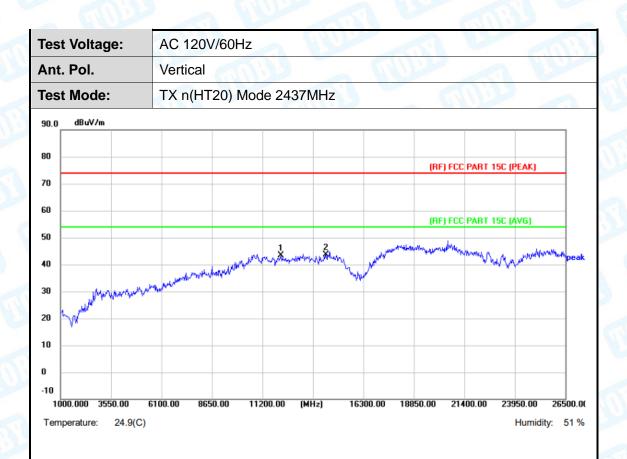
- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

- Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
 Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)
 The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.
 Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise,

- 5. No report for the emission which below the prescribed limit.6. The average measurement was not performed when the peak measured data under the limit of average detection.



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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	12118.000	43.92	-0.46	43.46	74.00	-30.54	peak
2 *	14413.000	42.89	0.81	43.70	74.00	-30.30	peak

Remark:

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. Peak/AVG (dBµV/m)= Corr. (dB/m)+ Read Level (dBµV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)
- 4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.

- 5. No report for the emission which below the prescribed limit.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.



47 of 70 Page:

est Voltage:	AC 120V/60Hz
nt. Pol.	Horizontal
est Mode:	TX n(HT20) Mode 2462MHz
0.0 dBuV/m	
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1000.000 3550.00	6100.00 8650.00 11200.00 (MHz) 16300.00 18850.00 21400.00 23950.00 26500.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	12143.500	44.11	-0.53	43.58	74.00	-30.42	peak
2	13648.000	43.34	-0.01	43.33	74.00	-30.67	peak

Remark:

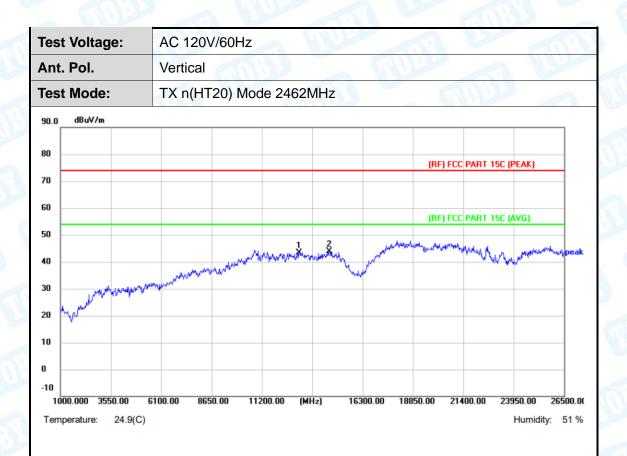
- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

- Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
 Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)
 The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.
 Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise,

- 5. No report for the emission which below the prescribed limit.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.



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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	13087.000	43.39	-0.03	43.36	74.00	-30.64	peak
2 *	14617.000	43.06	0.81	43.87	74.00	-30.13	peak

Remark

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. Peak/AVG (dBµV/m)= Corr. (dB/m)+ Read Level (dBµV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)
- 4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.

- 5. No report for the emission which below the prescribed limit.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.



49 of 70 Page:

est Voltage:	AC 120V/60Hz
nt. Pol.	Horizontal
est Mode:	TX n(HT40) Mode 2422MHz
00.0 dBuV/m	
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50	(RF) FCC PART 15C (AVG)
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10 1000.000 3550.00 6	6100.00 8650.00 11200.00 (MHz) 16300.00 18850.00 21400.00 23950.00 26500

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	12806.500	44.24	-0.45	43.79	74.00	-30.21	peak
2	13520.500	43.52	0.01	43.53	74.00	-30.47	peak

Remark:

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

- Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
 Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)
 The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the

highest fundamental frequency.

Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.

- 5. No report for the emission which below the prescribed limit.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.



50 of 70 Page:

Test Voltage:	AC 120V/60Hz
Ant. Pol.	Vertical
Test Mode:	TX n(HT40) Mode 2422MHz
90.0 dBuV/m	
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70	(RF) FCC PART 15C (PEAK)
50	(RF) FCC PART 15C (AVG)
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10 1000.000 3550.00 6	S100.00 8650.00 11200.00 (MHz) 16300.00 18850.00 21400.00 23950.00 26500.0

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11761.000	44.23	-0.89	43.34	74.00	-30.66	peak
2 *	13189.000	44.07	-0.09	43.98	74.00	-30.02	peak

Remark:

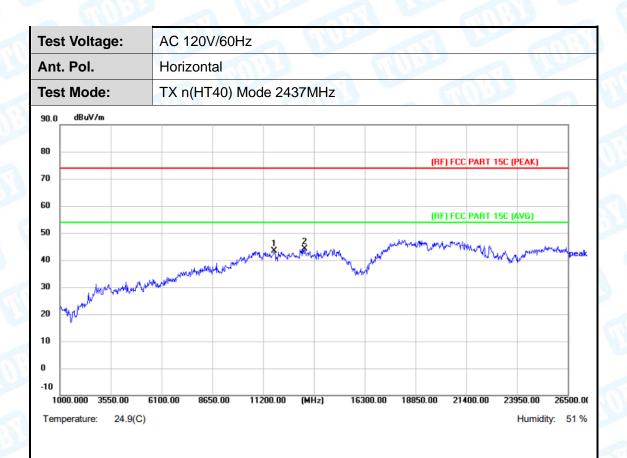
- Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
 Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)
 The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.

- 5. No report for the emission which below the prescribed limit.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.



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1	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
	1	11761.000	44.22	-0.89	43.33	74.00	-30.67	peak
2	2 *	13291.000	44.22	-0.16	44.06	74.00	-29.94	peak

Remark:

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)
- 4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

 Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise,

- 5. No report for the emission which below the prescribed limit.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.



52 of 70 Page:

est Voltage:	AC 120V/60Hz							
nt. Pol.	Vertical							
est Mode:	TX n(HT40) Mode 2437MHz							
0.0 dBuV/m								
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10 1000.000 3550.00	6100.00 8650.00 11200.00 (MHz) 16300.00 18850.00 21400.00 23950.00 26500.00							

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11608.000	44.40	-1.23	43.17	74.00	-30.83	peak
2 *	14515.000	43.72	0.60	44.32	74.00	-29.68	peak

Remark:

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

- Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
 Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)
 The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the

highest fundamental frequency.

Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.

- 5. No report for the emission which below the prescribed limit.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.



53 of 70 Page:

	Voltage:	- 1	C 120V									
۹nt.	Pol.	Н	orizont	al	N.	3.50		67 19		-		
Test	Mode:	T	TX n(HT40) Mode 2452MHz									
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70									(HF) FC	C PART 15C (PEAKJ	
60									(RF) FC	C PART 15C (AVG)	-
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-10 100	0.000 3550.00	610	00.00 8	650.00	112	00.00 (M	Hz) 1	6300.00	18850.00 21	400.00 23	950.00 2	6500.0

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	12653.500	43.72	-0.17	43.55	74.00	-30.45	peak
2 *	14362.000	44.15	0.58	44.73	74.00	-29.27	peak

Remark:

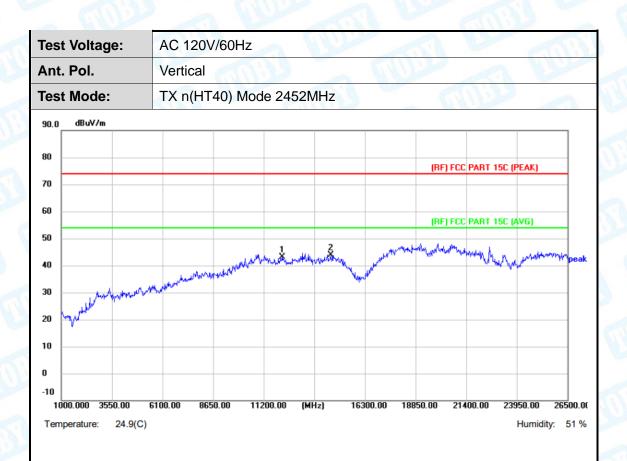
- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

- Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
 Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)
 The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.
 Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise,

- 5. No report for the emission which below the prescribed limit.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.



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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	12118.000	43.58	-0.46	43.12	74.00	-30.88	peak
2 *	14566.000	43.10	0.72	43.82	74.00	-30.18	peak

Remark:

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)
- 4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

 Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise,

- 5. No report for the emission which below the prescribed limit.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

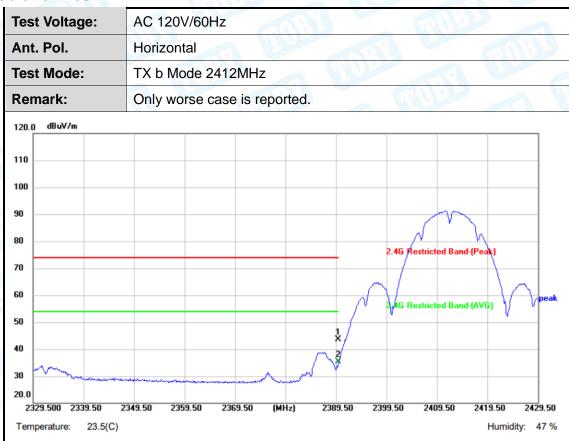




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Attachment C-- Restricted Bands Requirement Test Data

Radiation Test



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	2390.000	59.33	-15.74	43.59	74.00	-30.41	peak
2 *	2390.000	51.00	-15.74	35.26	54.00	-18.74	AVG

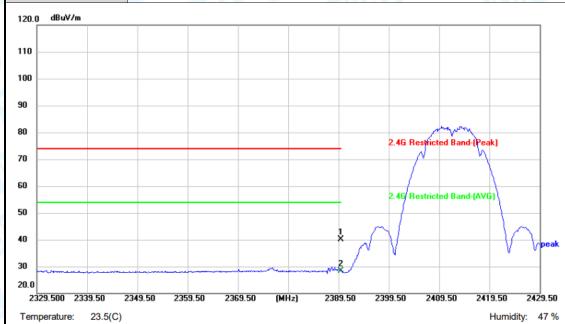
Remark

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)



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	Test Voltage:	AC 120V/60Hz
N	Ant. Pol.	Vertical
ø	Test Mode:	TX b Mode 2412MHz
	Remark:	Only worse case is reported.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	55.80	-15.74	40.06	74.00	-33.94	peak
2 *	2390.000	44.07	-15.74	28.33	54.00	-25.67	AVG

- Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
 Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)



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	Test Voltage:	AC 120V/60Hz
1	Ant. Pol.	Horizontal
	Test Mode:	TX b Mode 2462MHz
	Remark:	Only worse case is reported.



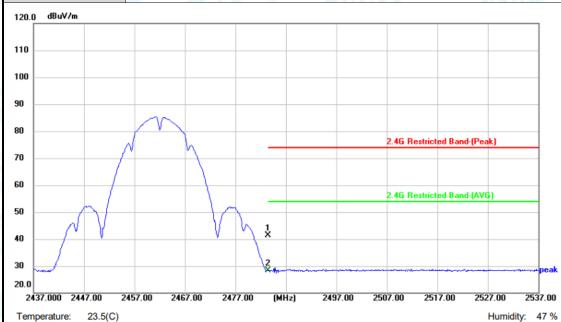
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	67.24	-15.44	51.80	74.00	-22.20	peak
2 *	2483.500	62.13	-15.44	46.69	54.00	-7.31	AVG

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dBµV/m)-Limit PK/AVG(dBµV/m)



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	Test Voltage:	AC 120V/60Hz
N	Ant. Pol.	Vertical
ø	Test Mode:	TX b Mode 2462MHz
	Remark:	Only worse case is reported.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	56.82	-15.44	41.38	74.00	-32.62	peak
2 *	2483.500	43.71	-15.44	28.27	54.00	-25.73	AVG

- Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
 Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)



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Humidity: 47 %

Test Voltage:	AC 120V/60Hz							
Ant. Pol.	Horizontal TX g Mode 2412MHz							
Test Mode:								
Remark:	Only worse case is reported.							
120.0 dBuV/m								
110								
100								
90								
30	2.4G Restricted Band-[Peak]							
70	i i							
50	2.4G Restricted Band-(AVG)							
50	3							
40	pea							
30								
20.0 2337.500 2347.50	2357.50 2367.50 2377.50 (MHz) 2397.50 2407.50 2417.50 2427.50 2437.50							

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	80.69	-15.74	64.95	74.00	-9.05	peak
2 *	2390.000	67.30	-15.74	51.56	54.00	-2.44	AVG

Temperature:

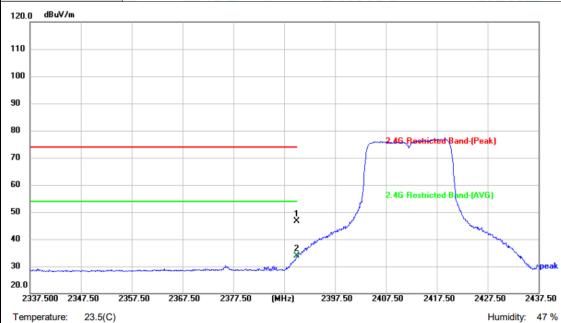
23.5(C)

- Remark: 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB) 2. Peak/AVG (dB μ V/m)= Corr. (dB/m)+ Read Level (dB μ V)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)



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5	Test Voltage:	AC 120V/60Hz
N B	Ant. Pol.	Vertical
ø	Test Mode:	TX g Mode 2412MHz
	Remark:	Only worse case is reported.



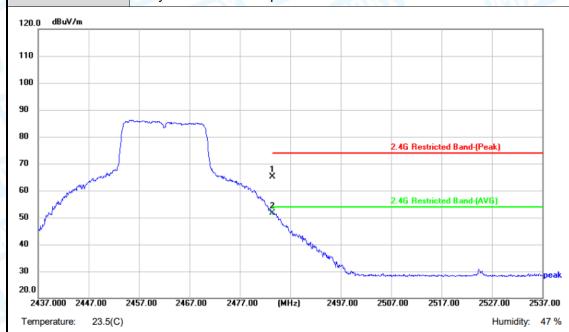
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	62.27	-15.74	46.53	74.00	-27.47	peak
2 *	2390.000	49.64	-15.74	33.90	54.00	-20.10	AVG

- Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
 Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)



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Í	Test Voltage:	AC 120V/60Hz
	Ant. Pol.	Horizontal
	Test Mode:	TX g Mode 2462MHz
١	Remark:	Only worse case is reported.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	80.49	-15.44	65.05	74.00	-8.95	peak
2 *	2483.500	67.15	-15.44	51.71	54.00	-2.29	AVG

- Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
 Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)



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	Test Voltage:	AC 120V/60Hz
\ =	Ant. Pol.	Vertical
	Test Mode:	TX g Mode 2462MHz
	Remark:	Only worse case is reported.



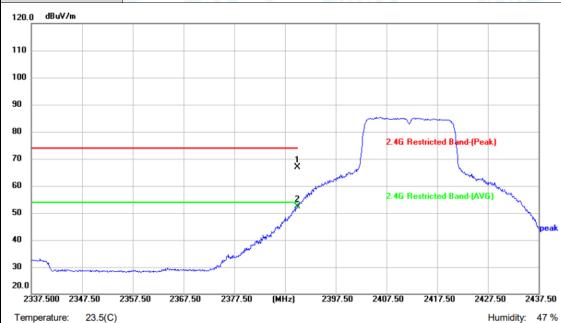
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	2483.500	75.54	-15.44	60.10	74.00	-13.90	peak
2 *	2483.500	58.44	-15.44	43.00	54.00	-11.00	AVG

- Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
 Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)



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	Test Voltage:	AC 120V/60Hz
N	Ant. Pol.	Horizontal
ø	Test Mode:	TX n(HT20) Mode 2412MHz
	Remark:	Only worse case is reported.



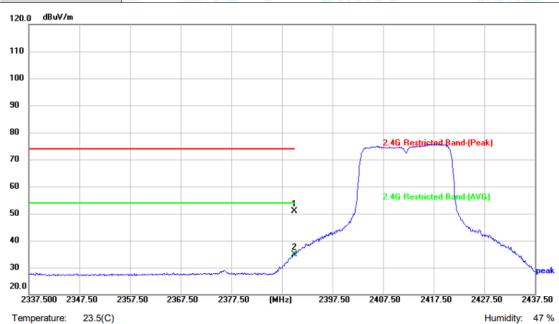
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	82.51	-15.74	66.77	74.00	-7.23	peak
2 *	2390.000	68.21	-15.74	52.47	54.00	-1.53	AVG

- Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
 Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)



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Š	Test Voltage:	AC 120V/60Hz
N	Ant. Pol.	Vertical
	Test Mode:	TX n(HT20) Mode 2412MHz
1	Remark:	Only worse case is reported.



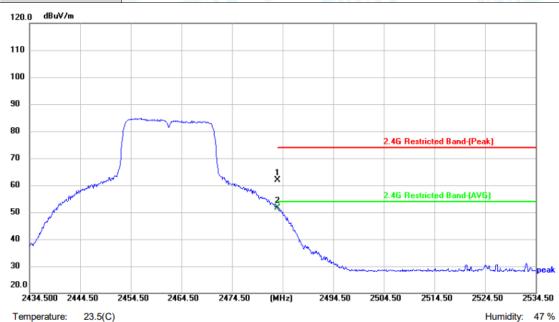
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	2390.000	66.55	-15.74	50.81	74.00	-23.19	peak
2 *	2390.000	50.72	-15.74	34.98	54.00	-19.02	AVG

- Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
 Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)



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	Test Voltage:	AC 120V/60Hz
N	Ant. Pol.	Horizontal
ø	Test Mode:	TX n(HT20) Mode 2462MHz
	Remark:	Only worse case is reported.



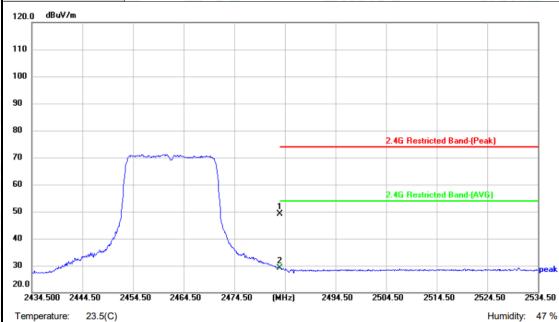
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	2483.500	77.39	-15.44	61.95	74.00	-12.05	peak
2 *	2483.500	67.04	-15.44	51.60	54.00	-2.40	AVG

- Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
 Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)



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Test Voltage:	AC 120V/60Hz
Ant. Pol.	Vertical
Test Mode:	TX n(HT20) Mode 2462MHz
Remark:	Only worse case is reported.
	·



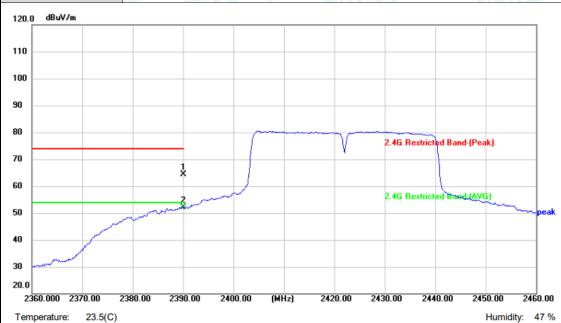
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	64.49	-15.44	49.05	74.00	-24.95	peak
2 *	2483.500	44.57	-15.44	29.13	54.00	-24.87	AVG

- Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
 Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)



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	Test Voltage:	AC 120V/60Hz
N	Ant. Pol.	Horizontal
ø	Test Mode:	TX n(HT40) Mode 2422MHz
	Remark:	Only worse case is reported.



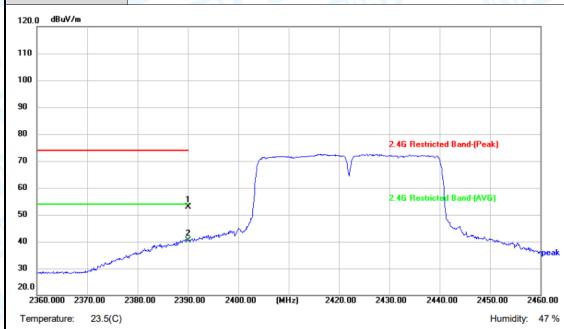
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	2390.000	80.01	-15.74	64.27	74.00	-9.73	peak
2 *	2390.000	67.82	-15.74	52.08	54.00	-1.92	AVG

- Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
 Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)



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Test Voltage:	AC 120V/60Hz
Ant. Pol.	Vertical
Test Mode:	TX n(HT40) Mode 2422MHz
Remark:	Only worse case is reported.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	68.71	-15.74	52.97	74.00	-21.03	peak
2 *	2390.000	56.18	-15.74	40.44	54.00	-13.56	AVG

- Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
 Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)



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Test Voltage:	AC 120V/60Hz
Ant. Pol.	Horizontal
Test Mode:	TX n(HT40) Mode 2452MHz
Remark:	Only worse case is reported.



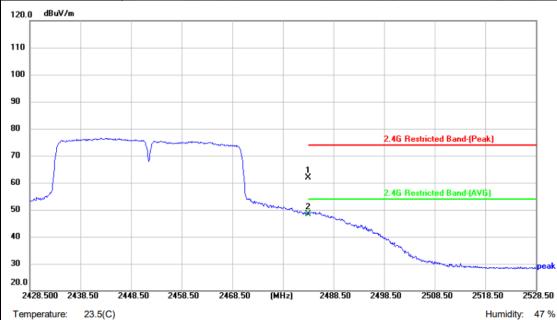
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	2483.500	84.09	-15.44	68.65	74.00	-5.35	peak
2 *	2483.500	66.78	-15.44	51.34	54.00	-2.66	AVG

- Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
 Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)



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Test Voltage:	AC 120V/60Hz
Ant. Pol.	Vertical
Test Mode:	TX n(HT40) Mode 2452MHz
Remark:	Only worse case is reported.
120.0 dBuV/m	



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	2483.500	77.26	-15.44	61.82	74.00	-12.18	peak
2 *	2483.500	63.72	-15.44	48.28	54.00	-5.72	AVG

- Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
 Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)

END OF REPORT---