

Shenzhen Toby Technology Co., Ltd.

Report No.: TB-FCC164587

1 of 47 Page:

FCC Radio Test Report FCC ID: Y9E-IAD18006

Original Grant

Report No. TB-FCC164587

Applicant IAdea Corporation

Equipment Under Test (EUT)

Smart Signboard EUT Name

(Tablet without battery)

Model No. XDS-1088-H/IAD-18006

XDS-1088-A/IAD-18004, XDS-108Z-Y/IAD-18006,

XDS-108Z-Y/IAD-18004(Note: Z is "0~9", and Y is "A~Z", Series Model No.

represents the software version or customer's models)

Brand Name IAdea

Receipt Date 2019-03-06

Test Date 2019-03-06 to 2019-05-27

Issue Date 2019-06-28

Standards FCC Part 15, Subpart C(15.247)

Test Method ANSI C63.10: 2013

Conclusions **PASS**

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

The EUT technically complies with the FCC and IC requirements

Test/Witness

Jason xu Jason Xu Engineer

WAN SU Engineer

Ivan Su Supervisor

fagta. **Engineer Manager** 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
TB-FCC164587	Rev.01	Initial issue of report	2019-06-28
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1. General Information about EUT

1.1 Client Information

Applicant: IAdea Corporation

Address 3F, No. 21 Lane 168, Xingshan Road, Neihu Dist., Taipei, Taiwan,

R.O.C

Manufacturer : IAdea Corporation

Address 3F, No. 21 Lane 168, Xingshan Road, Neihu Dist., Taipei, Taiwan,

R.O.C

1.2 General Description of EUT (Equipment Under Test)

Models No. Cablet without battery						
Models No. Models No. XDS-1088-H/IAD-18006,XDS-1088-A/IAD-18004, XDS-108Z-Y/IAD-18006,XDS-108Z-Y/IAD-18004 (Note: Z is "0~9" ,and Y is "A~Z", represents the software version or customer's models) Model	FIIT Name	Smart Signboard				
Models No. XDS-108Z-Y/IAD-18006,XDS-108Z-Y/IAD-18004 (Note: Z is "0~9", and Y is "A~Z", represents the software version or customer's models) Model	Lor Hame	blet without battery)				
 (Note: Z is "0~9", and Y is "A~Z", represents the software version or customer's models) Model Difference : All models are in the same PCB layout interior structure and electrical circuits, Just different on colors, software version or customer's model number. Operation Frequency: 802.11b/g/n(HT20): 2412MHz~2462MHz Number of Channel: 802.11b/g/n(HT20):11 channels see note(3) Max Output Power: 802.11b: 16.08 dBm Antenna Gain: 1.5dBi FPC Antenna 		XDS-1088-H/IAD-18006,XDS-1088-A/IAD-18004,				
(Note: Z is "0~9", and Y is "A~Z", represents the software version or customer's models) **Model** All models are in the same PCB layout interior structure and electrical circuits, Just different on colors, software version or customer's mode number. Operation Frequency: 802.11b/g/n(HT20): 2412MHz~2462MHz	0.75	S-108Z-Y/IAD-18006,XDS-108Z	Z-Y/IAD-18004			
Product Tepresents the software version or customer's models	Models No.	lote: Z is "0~9" ,and Y is "A~Z"				
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Product Modulation Type: 802 11b: DSSS(CCK_DOPSK_DRPSK)		x Output Power: 802.11b: 1	6.08 dBm			
Modulation Type: 802 11h: DSSS(CCK_DOPSK_DRPSK)	Droduct	tenna Gain: 1.5dBi FP0	Antenna			
		dulation Type: 802.11b: D	SSS(CCK, DQPSK, DBPSK)			
Description 802.11g/n: OFDM(BPSK,QPSK,16QAM,	Description	802.11g/n:	OFDM(BPSK,QPSK,16QAM,			
64QAM)			100			
Bit Rate of 802.11b:11/5.5/2/1 Mbps		Rate of 802.11b:11	/5.5/2/1 Mbps			
Transmitter: 802.11g:54/48/36/24/18/12/9/6 Mbps						
802.11n:up to 150Mbps			The state of the s			
Power Supply AC/DC Adapter(FJ-SW1202000N)	Power Supply					
Input: AC 100~240V, 50/60Hz, 0.6A.			1.			
Output: DC 12V, 2A.						
Connecting : Please refer to the User's Manual	Connecting					
I/O Port(S)		i lease letel to tile Osel s Ivialitial				

- (1) This Test Report is FCC Part 15.247 for 802.11b/g/n, the test procedure follows the FCC KDB 558074 D01v05.
- (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



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(3) 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(HT2	0)			

(4) The Antenna information about the equipment is provided by the applicant.

1.3 Block Diagram Showing the Configuration of System Tested

Adapter + TX Mode

1.4 Description of Support Units

Equipment Information							
Name	Name Model FCC ID/VOC Manufacturer Used "√"						
Cable Information							
Number Shielded Type Ferrite Core Length Note							

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	Adapter + TX B Mode



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	and the second s
	For Radiated Test
Final Test Mode	Description
Mode 2	Adapter +TX Mode B Mode Channel 01/06/11
Mode 3	Adapter +TX Mode G Mode Channel 01/06/11
Mode 4	Adapter +TX Mode N(HT20) Mode Channel 01/06/11

Note:

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

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

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

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

- (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 WLAN.

Test Software Version	TO THE	Die Contraction	
Channel	CH 01	CH 06	CH 11
IEEE 802.11b DSSS	DEF	DEF	DEF
IEEE 802.11g OFDM	DEF	DEF	DEF
IEEE 802.11n (HT20)	DEF	DEF	DEF

1.7 Measurement Uncertainty

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

Test Item	Parameters	Expanded Uncertainty (U _{Lab})
	Level Accuracy:	
Conducted Emission	9kHz~150kHz	±3.42 dB
	150kHz to 30MHz	±3.42 dB
Radiated Emission	Level Accuracy:	. 4 60 dB
	9kHz to 30 MHz	±4.60 dB
Padiated Emission	Level Accuracy:	±4.40 dB
Radiated Emission	30MHz to 1000 MHz	±4.40 dB
Radiated Emission	Level Accuracy:	±4.20 dB
Radiated Emission	Above 1000MHz	±4.20 dB



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1.8 Test Facility

The testing was performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at:1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang Section 467, Xixiang, Bao'an, Shenzhen, Guangdong, China.

At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)

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

FCC Accredited Test Site Number: 854351.

A2LA Certificate No.: 4750.01

The laboratory has been accredited by American Association for Laboratory Accreditation(A2LA) to ISO/IEC 17025: 2005 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.

IC Registration No.: (11950A-1)

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



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2. Test Summary

FCC Part 15 Subpart C(15.247)/ RSS 247 Issue 1							
Standard Section		Test Item	Judgment	Remark			
FCC	IC	rest item	Judgment	Remark			
15.203	1	Antenna Requirement	PASS	N/A			
15.207	RSS-GEN 7.2.4	Conducted Emission	PASS	N/A			
15.205	RSS-GEN 7.2.2	Restricted Bands	PASS	N/A			
15.247(a)(2)	RSS 247	6dB Bandwidth	PASS	N/A			
13.247 (a)(2)	5.2 (1)						
15.247(b)	RSS 247	Peak Output Power	PASS	N/A			
13.247 (0)	5.4 (4)	Teak Output Tower	FASS	IN/A			
15.247(e)	RSS 247	Bower Spectral Density	PASS	N/A			
15.247 (e)	5.2 (2)	Power Spectral Density	PASS	IN/A			
15.247(d)	RSS 247	Budfda	PASS	NI/A			
15.247 (u)	5.5	Band Edge	PASS	N/A			
15.247(d)&	RSS 247	Transmitter Radiated Spurious	PASS	NI/A			
15.209	5.5	Emission	PASS	N/A			

Note: "/" for no requirement for this test item.

N/A is an abbreviation for Not Applicable.



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3. Test Equipment

Conducted Emiss	ion Test				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jul.18, 2018	Jul. 17, 2019
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jul.18, 2018	Jul. 17, 2019
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jul.18, 2018	Jul. 17, 2019
LISN	Rohde & Schwarz	ENV216	101131	Jul.18, 2018	Jul. 17, 2019
Radiation Emission	n Test				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul.18, 2018	Jul. 17, 2019
EMI Test Receiver	Rohde & Schwarz	ESPI	100010/007	Jul.18, 2018	Jul. 17, 2019
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Jan. 27, 2019	Jan. 26, 2020
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Jan. 27, 2019	Jan. 26, 2020
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar.03, 2019	Mar. 02, 2020
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar.03, 2019	Mar. 02, 2020
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-059	Jul. 14, 2018	Jul.13, 2019
Pre-amplifier	Sonoma	310N	185903	Mar.04, 2019	Mar. 03, 2020
Pre-amplifier	HP	8449B	3008A00849	Mar.03, 2019	Mar. 02, 2020
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar.03, 2019	Mar. 02, 2020
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A
Antenna Conducto	ed Emission				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul.18, 2018	Jul. 17, 2019
Spectrum Analyzer	Rohde & Schwarz	ESCI	100010/007	Jul.18, 2018	Jul. 17, 2019
MXA Signal Analyzer	Agilent	N9020A	MY49100060	Sep. 15, 2018	Sep. 14, 2019
Vector Signal Generator	Agilent	N5182A	MY50141294	Sep. 15, 2018	Sep. 14, 2019
Analog Signal Generator	Agilent	N5181A	MY50141953	Sep. 15, 2018	Sep. 14, 2019
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO26	Sep. 15, 2018	Sep. 14, 2019
DE Davis C	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO29	Sep. 15, 2018	Sep. 14, 2019
RF Power Sensor	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO31	Sep. 15, 2018	Sep. 14, 2019
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO33	Sep. 15, 2018	Sep. 14, 2019



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4. Conducted Emission Test

4.1 Test Standard and Limit

4.1.1Test Standard FCC Part 15.207

4.1.2 Test Limit

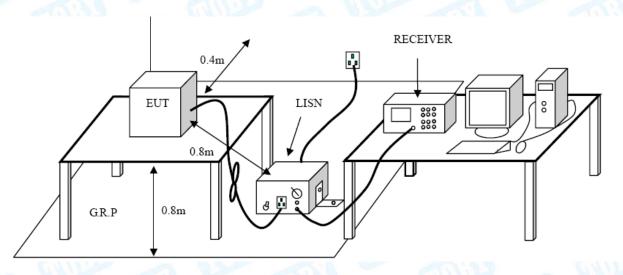
Conducted Emission Test Limit

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

Notes:

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

4.2 Test Setup



4.3 Test Procedure

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

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



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

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

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

4.4 EUT Operating Mode

Please refer to the description of test mode.

4.5 Test Data

Please refer to the Attachment A.



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5. Radiated Emission Test

5.1 Test Standard and Limit

5.1.1 Test Standard FCC Part 15.209

5.1.2 Test Limit

Radiated Emission Limits (9 kHz~1000 MHz)

Frequency (MHz	Field Strength (microvolt/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Radiated Emission Limit (Above 1000MHz)

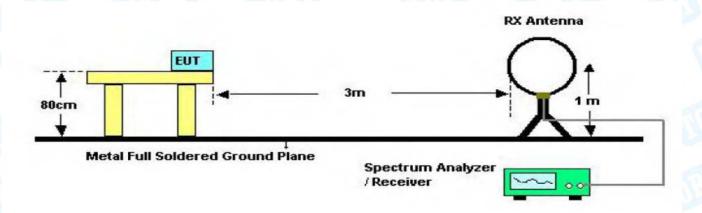
Frequency	Distance of 3m (dBuV/m)			
(MHz)	Peak	Average		
Above 1000	74	54		

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

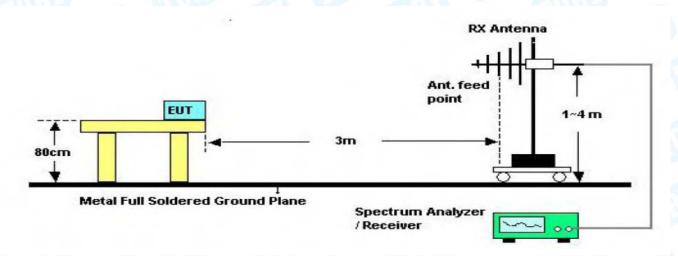


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5.2 Test Setup



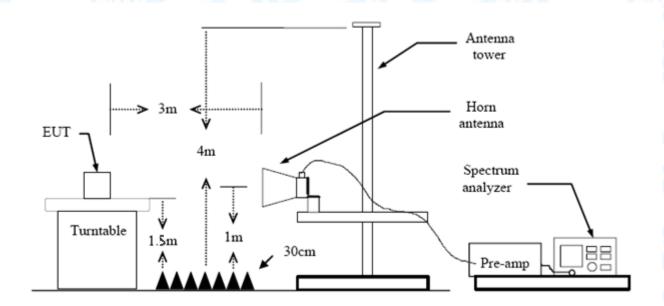
Below 30MHz Test Setup



Below 1000MHz Test Setup



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Above 1GHz Test Setup

5.3 Test Procedure

- (1) 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.
- (2) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (3) 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.
- (4) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (5) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (6) 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.
- (7) For the actual test configuration, please see the test setup photo.

5.4 EUT Operating Condition

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



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5.5 Test Data

Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.

Please refer to the Attachment B.



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6. Restricted Bands Requirement

6.1 Test Standard and Limit

6.1.1 Test Standard

FCC Part 15.247(d)

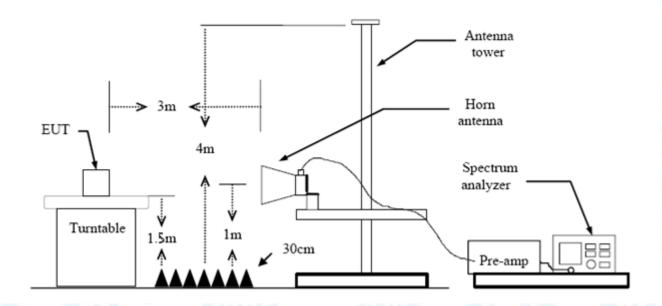
FCC Part 15.209

FCC Part 15.205

6.1.2 Test Limit

Restricted Frequency	Distance of 3m (dBuV/m)			
Band (MHz)	Peak	Average		
2310 ~2390	74	54		
2483.5 ~2500	74	54		

6.2 Test Setup



6.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz 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.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.



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(3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.

- (4) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.

6.4 EUT Operating Condition

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

6.5 Test Data

Please refer to the Attachment C.



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7. Bandwidth Test

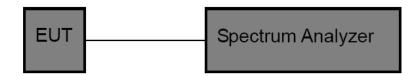
7.1 Test Standard and Limit

7.1.1 Test Standard FCC Part 15.247 (a)(2)

7.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/RSS-210						
Test Item	Test Item Limit Frequency Range(MHz)					
Bandwidth	>=500 KHz (6dB bandwidth)	2400~2483.5				

7.2 Test Setup



7.3 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) The bandwidth is measured at an amplitude level reduced 6dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst –case (i.e the widest) bandwidth.
- (3)Measure the channel separation the spectrum analyzer was set to Resolution Bandwidth:100 kHz, and Video Bandwidth:300 kHz, Detector: Peak, Sweep Time set auto.

7.4 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, Digital photo framesdle and high channel for the test.

7.5 Test Data

Please refer to the Attachment D.



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8. Peak Output Power Test

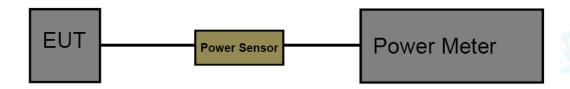
8.1 Test Standard and Limit

8.1.1 Test Standard FCC Part 15.247 (b)

8.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/RSS-210						
Test Item Limit Frequency Range(MHz						
Peak Output Power	1 Watt or 30 dBm	2400~2483.5				

8.2 Test Setup



8.3 Test Procedure

The measurement is according to section 9.1.2 of KDB 558074 D01 15.247 Meas Guidance v05. 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.

8.4 EUT Operating Condition

The EUT was set to continuously transmitting in the max power during the test.

8.5 Test Data

Please refer to the Attachment E.



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9. Power Spectral Density Test

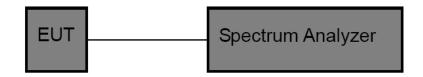
9.1 Test Standard and Limit

9.1.1 Test Standard FCC Part 15.247 (e)

9.1.2 Test Limit

FCC Part 15 Subpart C(15.247)						
Test Item Limit Frequency Range(MHz)						
Power Spectral Density	2400~2483.5					

9.2 Test Setup



9.3 Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 15.247 Meas Guidance v05.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyser center frequency to DTS channel center frequency.
- (3) Set the span to 1.5 times the DTS bandwidth.
- (4) Set the RBW to: 3 kHz(5) Set the VBW to: 10 kHz
- (6) Detector: peak
- (7) Sweep time: auto
- (8) Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

9.4 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, Digital photo framesdle and high channel for the test.

9.5 Test Data

Please refer to the Attachment F.



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10. Antenna Requirement

10.1 Standard Requirement

10.1.1 Standard FCC Part 15.203

10.1.2 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.

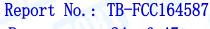
10.2 Antenna Connected Construction

The directional gains of the antenna used for transmitting is 1.5dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

Result

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

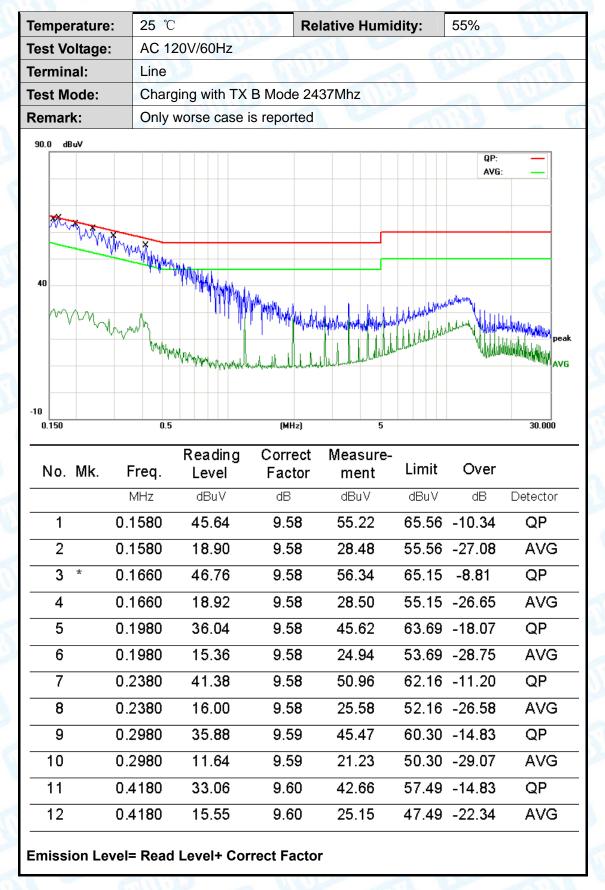
	Antenna Type	
مانال	⊠Permanent attached antenna	EMI)
a Cin	Unique connector antenna	
	Professional installation antenna	Min



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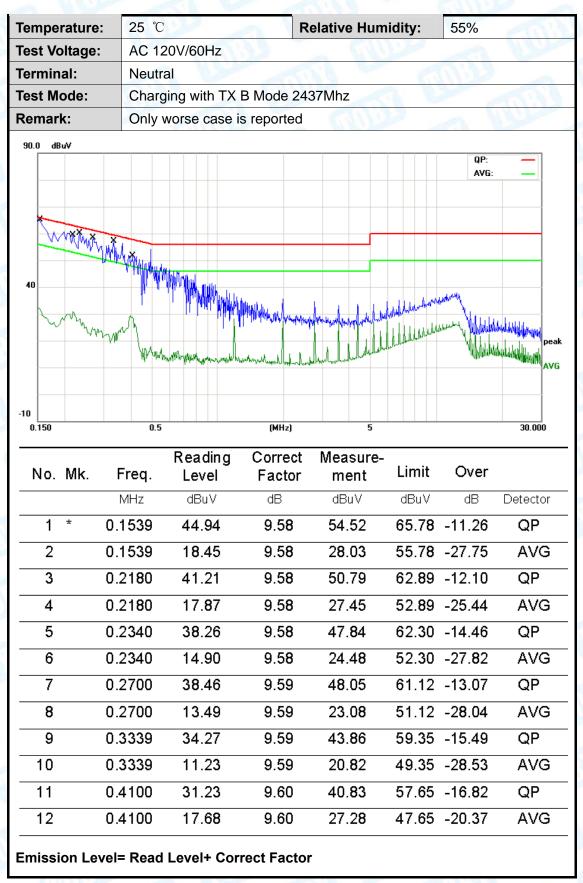


Attachment A-- Conducted Emission Test Data





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Remark: All modes and channels have been tested and only listed WiFi link mode that is worst data



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Attachment B--Radiated Emission and Restricted Bands Requirement Test Data

9KHz~30MHz

From 9KHz to 30MHz: 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

Temperature:	25 ℃	THE		Relative Hu	midity:	55%	
Test Voltage:	AC 12	0/60Hz	101		Miles		1
Ant. Pol.	Horizo	ntal	MIL				1
Test Mode:	TXB	Mode 2462N	ИHz	1100	-a 1	HIL	1
Remark:		1GHz test of EE 802.11b		eport only sha	II the wors	st case mo	ode for
80.0 dBuV/m							
-20 -20 -20 -20	50 60 70		(MHz)	300	(RF)FCC 15C	3M Radiation Margin -6 dl	3 ×
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detect
1 25	1.1804	53.15	-17.16	35.99	46.00	-10.01	QP
2 339	9.5888	53.18	-14.92	38.26	46.00	-7.74	QP
	7.0504	55.21	-13.32	41.89	46.00	-4.11	QP
3 * 377	7.2591	00.21					
	3.8762	46.57	-11.47	35.10	46.00	-10.90	QP
4 468			-11.47 -5.53	35.10 40.96	46.00 46.00	-10.90 -5.04	QP QP



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25 ℃	Relative Humidity:	55%
AC 120/60Hz	Million	
Vertical		
TX B Mode 2462MHz		
The state of the s		e worst case mode for
	AC 120/60Hz Vertical TX B Mode 2462MHz Below 1GHz test data. TI	AC 120/60Hz Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		43.5057	50.57	-20.84	29.73	40.00	-10.27	QP
2		47.9940	51.24	-22.57	28.67	40.00	-11.33	QP
3		200.6881	52.08	-19.92	32.16	43.50	-11.34	QP
4	*	337.2155	53.23	-14.99	38.24	46.00	-7.76	QP
5		377.2591	49.56	-13.32	36.24	46.00	-9.76	QP
6		965.5421	46.91	-3.46	43.45	54.00	-10.55	QP

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



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Above 1GHz

Test Mode: IEEE 802.11b

Low channe	el: 241	2 MHz								
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Peak		Peak limit (dBµV/m)	AV limit (dBµV/m)	Peak Margin	AV Margin
		(арру)		(UD/III)					(dB)	(dB)
2390	H	48.85	41.69	0.77	49.62	42.46	74	54	-24.38	-11.54
4824	Н	43.26	31.27	13.68	56.94	44.95	74	54	-17.06	-9.05
71,24	Η	4/1		- N			-			[
		1	Cil	1:30	-	Millian	1	A Property		8.8
2390	٧	42.95	31.28	0.77	43.72	32.05	74	54	-30.28	-21.95
4824	V	43.51	30.47	13.68	57.19	44.15	74	54	-16.81	-9.85
	V					11777				

Middle char	nnel: 2	437 MHz								
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Peak	on Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Peak Margin (dB)	AV Margin (dB)
4874	Н	44.13	30.18	13.86	57.99	44.04	74	54	-16.01	-9.96
	Н	Trail	11970	1	1117		1		Z(A	
1111	Н	7		(D)-A	(Contract of the contract of th)	(17)		
	M		2 M	C. Carrie		6	TO B		200	100
4874	V	43.37	30.25	13.86	57.23	44.11	74	54	-16.77	-9.89
100.77	V	110		7 W				200	·	///
	V)}}]	g W			\		D

High channe	el: 246	62 MHz								
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Peak		Peak limit (dBµV/m)	AV limit (dBµV/m)	Peak Margin (dB)	AV Margin (dB)
2483.5	I	41.35	31.22	1.17	42.52	32.39	74	54	-31.48	-21.61
4924	Η	43.3	30.47	14.03	57.33	44.5	74	54	-16.67	-9.5
	Н	NB	6	11/27		ANTIL		1 150		2
	MA				100		MILE		1 11/1	U. Santa
2483.5	Η	41.41	30.33	1.17	42.58	31.5	74	54	-31.42	-22.5
4924	V	44.46	31.47	14.03	58.49	45.5	74	54	-15.51	-8.5
(11)	V	J	199		3 V	d 6			(1-1-1)	322-

- 1. Emission Level= Read Level+ Correct Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 4. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.



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Test Mode: IEEE 802.11g

							. 9			
Low channe	el: 241	2 MHz								
Frequency (MHz)	Ant. Pol. H/V	Peak reading	AV reading (dBuV)	Correction Factor	Emissi Peak (dBµV/m)	, , , v	Peak limit	AV limit	Peak Margin	AV Margin
(12)	1 1/ V	(dBµV)		(dB/m)			(a 5 µ 7/)	(αΣμ τ/)	(dB)	(dB)
2390	Н	50.88	39.87	0.77	51.65	40.64	74	54	-22.35	-13.36
4824	Н	45.11	31.16	13.68	58.79	44.84	74	54	-15.21	-9.16
	Н		28,#	6	111-2		0.77 (1.5)		3 6	
		2 047	To bear	1			1			A 1
2390	V	51.62.	30.54	0.77	52.39	31.31	74	54	-21.61	-22.69
4824	V	43.30	30.12	13.56	56.98	43.8	74	54	-17.02	-10.2
2//	V	(1-4)	9	2 TAT						1

ſ	Middle chan	nel: 2	437 MHz								
	Frequency (MHz)	Ant. Pol. H/V	Peak reading	AV reading (dBuV)	Correction Factor	Peak	on Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Peak Margin	AV Margin
	()	1 1/ V	(dBµV)		(dB/m)			((0.2 \(\mathbb{\mtx\\mod}\m	(dB)	(dB)
	4874	I	43.21	31.53	13.86	57.07	45.39	74	54	-16.93	-8.61
		Н	سارا					$D_{\overline{z}}$	33	[[1177
		Н		1127	1	Allin		11.		Z. (A	
	111					6-1	TIN'I	2	THIS.		
V.	4874	V	44.29	30.24	13.86	58.15	44.1	74	54	-15.85	-9.9
	- N	V								77.3	
		V			2 W				A 44 3 3		(I)

High channe	ol· 246	S2 MHz								
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	on Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Peak Margin (dB)	AV Margin (dB)
2483.5	Н	51.26	38.73	1.17	52.43	39.9	74	54	-21.57	-14.1
4924	Н	44.39	30.72	14.15	58.42	44.75	74	54	-15.58	-9.25
THE STATE OF THE S	Н		1155		111			1075	19.0	
18.7				1010		THIN!		J MILL		501
2483.5	Н	50.38	36.28	1.17	51.55	37.45	74	54	-22.45	-16.55
4924	V	42.24	30.87	14.15	56.27	44.9	74	54	-17.73	-9.1
(1022)	V	777/17		<u> </u>				(H)	2	2 N

- 5. Emission Level= Read Level+ Correct Factor
- 6. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 7. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 8. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.



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Test Mode: IEEE 802.11n TH20

Low channe	el: 241	2 MHz								
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Peak	on Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Peak Margin (dB)	AV Margin (dB)
2390	Η	60.6	40.85	0.77	61.37	41.62	74	54	-12.63	-12.38
4824	H	44.08	30.24	13.56	57.64	43.80	74	54	-16.36	-10.2
	Н		18. F		11:43		077/15		3 1	
1190		L OFF	To be a	1			1			~ /
2390	V	59.74	43.44	0.77	60.51	44.21	74	54	-13.49	-9.79
4824	V	44.32	30.14	13.56	57.88	43.70	74	54	-16.12	-10.30
33	V	(1 PF)	ـــ الا	2 7/1/						

Middle char	nnel: 2	437 MHz			11.3					
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Poak	on Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Peak Margin (dB)	AV Margin (dB)
4874	Н	43.28	30.53	13.85	57.13	44.38	74	54	-16.87	-9.62
	Н				17-		(1)(5)	333	[]	1177
	Н		11977	\			11.		7/ A	
ALL PARTY		AV			-	TIP IN		LAND.		
4874	V	44.04	30.34	13.87	57.9	44.2	74	54	-16.1	-9.8
\	V				0 2		11/17/1		-12	
0 2	V	1777		1 18				W + 1		Z []

High channe	el: 246	62 MHz								
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	on Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Peak Margin (dB)	AV Margin (dB)
2483.5	Н	56.85	37.01	1.17	58.02	38.18	74	54	-15.98	-15.82
4924	Н	45.36	30.46	14.15	59.51	44.61	74	54	-14.49	-9.39
	Н	W					S	mm-	<u> </u>	
	1	33	6	11100		MATH		J. Fr	A.	
2483.5	Н	58.14	39.36	1.17	59.31	40.53	74	54	-14.69	-13.47
4924	V	43.67	30.77	14.15	57.82	44.92	74	54	-16.18	-9.08
1	V			183-	67			M. R. L.		(1) \

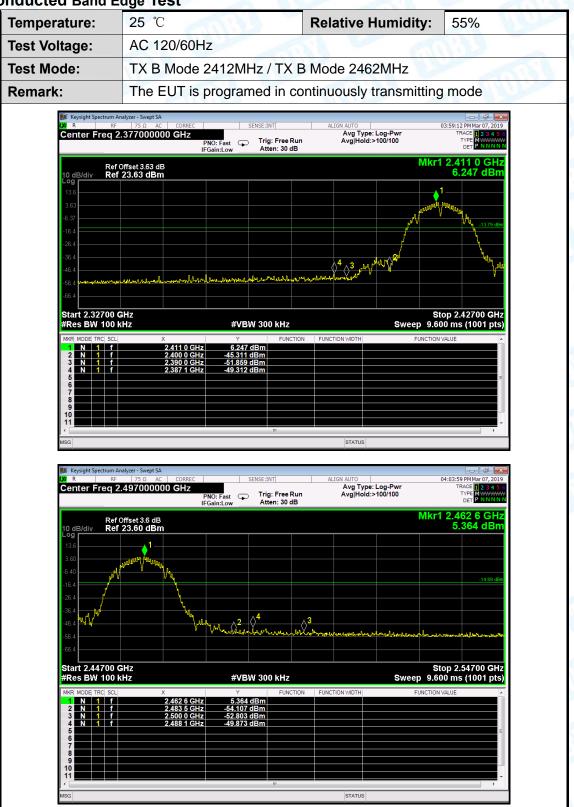
- 9. Emission Level= Read Level+ Correct Factor
- 10. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 11. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 12. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.



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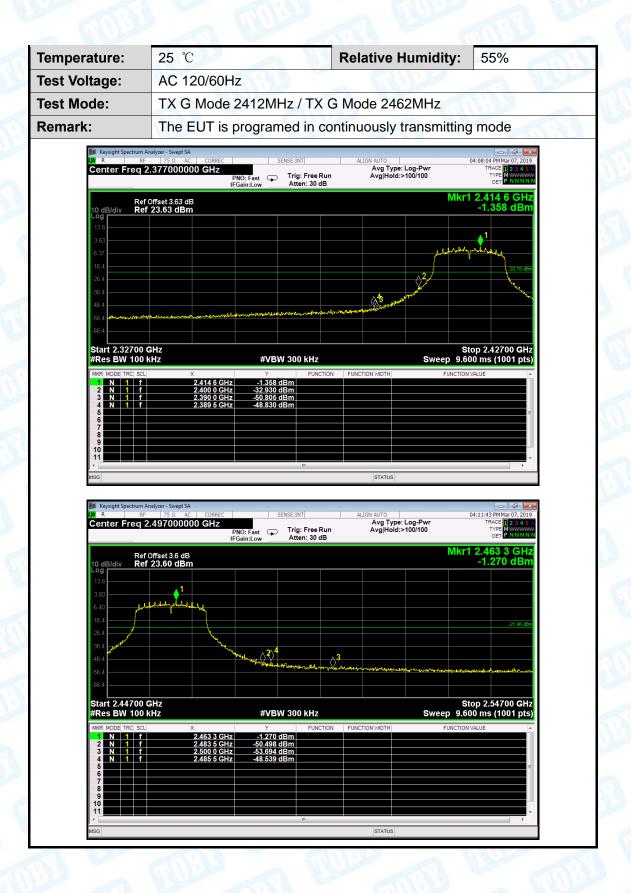
(1) Conducted Band Edge Test





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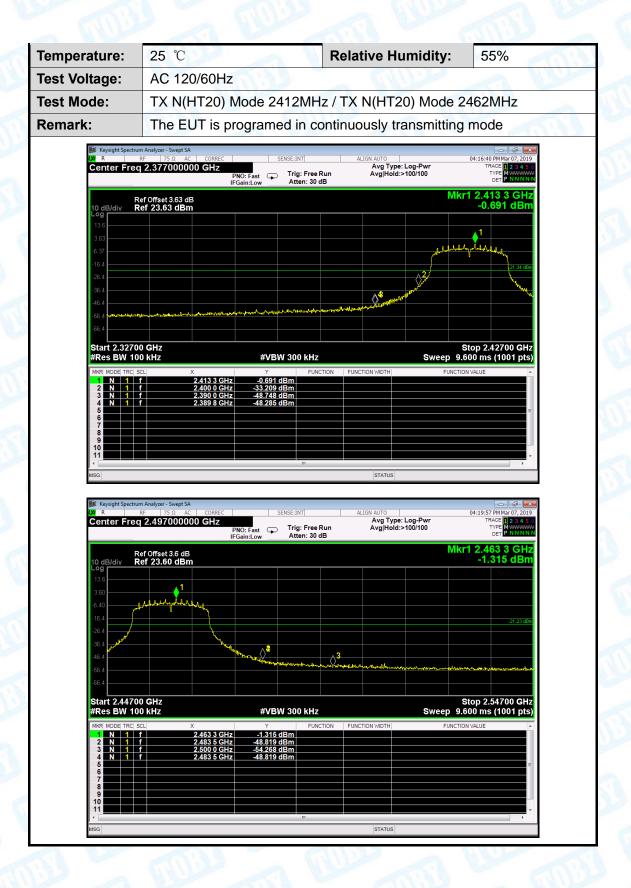






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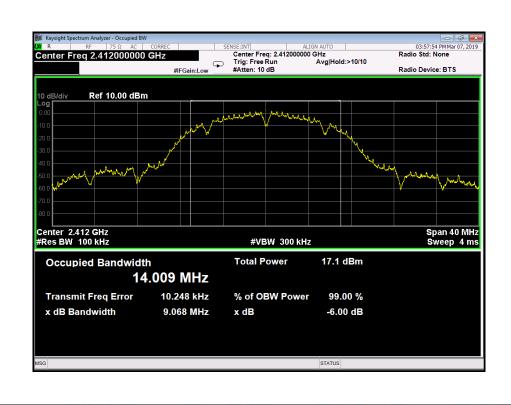


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Attachment D-- Bandwidth Test Data

Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Test Mode:	TX 802.11B Mode		
Channel frequence	y 6dB Bandwidth	99% Bandwidth	Limit
(MHz)	(MHz)	(MHz)	(MHz)
2412	9.068	14.009	
2437	9.067	14.004	>=0.5
2462	8.534	14.012	

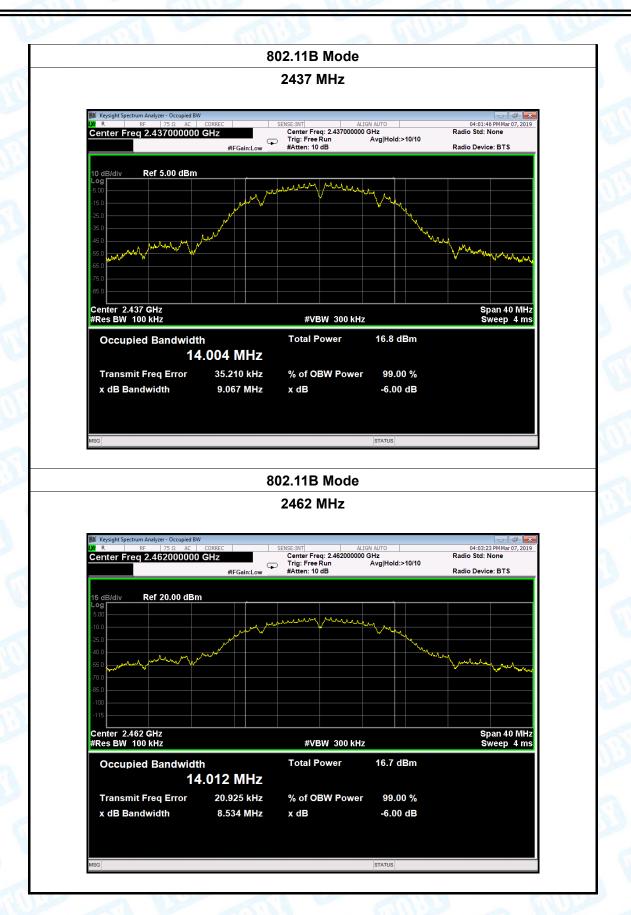
802.11B Mode





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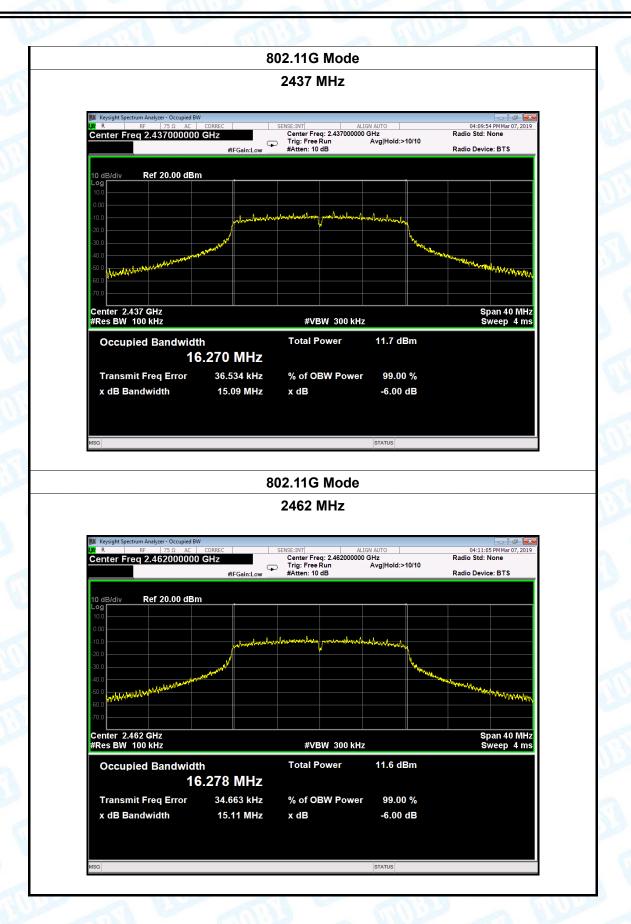
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nperature:	25 ℃			Rela	tive Hu	umidit	y: 5	55%	
t Voltage:	AC 120	0/60Hz	10		G1/1			A 1	
t Mode:	TX 802	2.11G Mode		13		6	ani	33	
annel frequen	су	6dB Bandv	vidth	999	% Ban	dwidth	1	Li	mit
(MHz)		(MHz)			(MH	z)		(M	Hz)
2412		15.09			16.2	87			
2437		15.09			16.2	70		>=	0.5
2462		15.11			16.2	78			
	1	8	302.11G I	Mode			1		
			2412 M	IH ₇					
Center Freq 2	75 Ω AC	GHZ #IFGain:Low	Trig: Free Ru #Atten: 10 db	2.412000000 G	N AUTO BHz Avg Hold:>10	0/10	04:07: Radio Std: Radio Devi		
Center Freq 2	75 Q AC .412000000	GHZ #IFGain:Low	Center Freq: Trig: Free Rt #Atten: 10 db	2.412000000 C an	SHz	0/10	Radio Devi	29 PMMar 07, 2019 None ice: BTS	-
Center Freq 2 10 dB/div R Log 10 0 000 -10 0 -20 0 -30 0 -50 0 -50 0 -70 0	75 \(\text{AC} \) .412000000 ef 20.00 dBm	GHZ #IFGain:Low	Center Freq: Trig: Free Rt. #Atten: 10 dt	2.412000000 G	SHz		Radio Devi	29 PMMar 07, 2019 None ice: BTS	-
Center 2.412 6 #Res BW 100	ef 20.00 dBm	#FGain:Low	Center Freq: Trig: Free Ru #Atten: 10 dt	2.412000000 G	SHz	hand the same	Radio Devi	Pan 40 MHz	
Center Freq 2 10 dB/div R Log 10.0 -10.0 -20.0 -30.0 -40.0 -50.0 -70.0 Center 2.412 G #Res BW 100 Occupied Transmit F	ef 20.00 dBm ef 20.00 dBm SHz kHz Bandwidt 16	#FGain:Low h 5.287 MHz 28.695 kHz	Center Freq: Trig: Free Kr #Atten: 10 dt #VBW Total Po % of OBN	2.412000000 G	11.8 dBi	m	Radio Devi	Pan 40 MHz	
10 dB/div R Log 100 -200 -300 -400 -500 -700 Center 2.412 6 #Res BW 100 Occupied	ef 20.00 dBm ef 20.00 dBm SHz kHz Bandwidt 16	#IFGain:Low	Center Freq: Trig: Free Ru #Atten: 10 dt	2.412000000 G	Hz Avg Hold:>1(m	Radio Devi	Pan 40 MHz	



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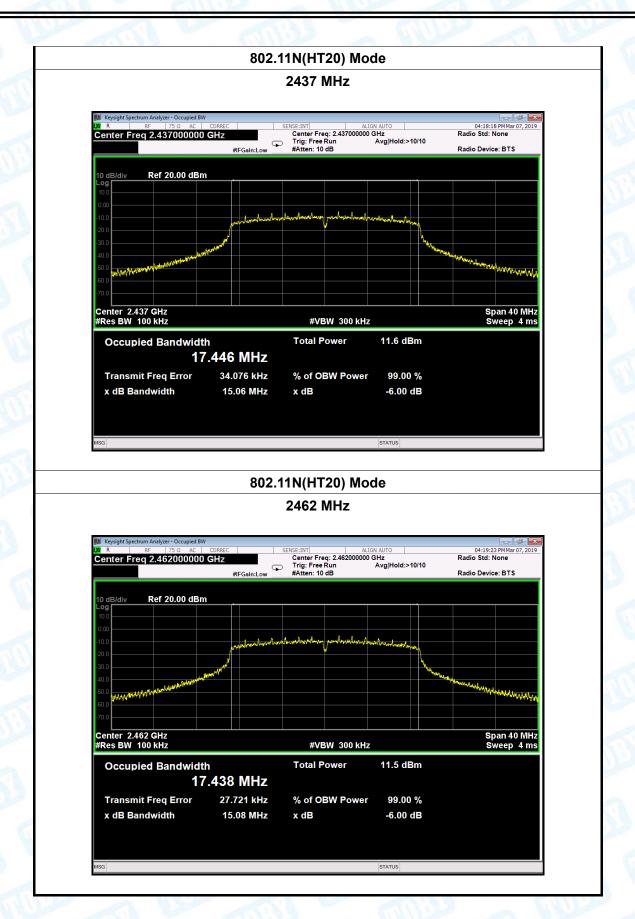
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emperature:	25 ℃			Relative Hu	midity:	55%
est Voltage:	AC 12	0/60Hz			131-0	N
est Mode:	TX 802	2.11N(HT20)	Mode	10	6.11	1139
hannel frequen		6dB Bandw		99% Band	lwidth	Limi
(MHz)		(MHz)		(MHz	<u>z</u>)	(MHz
2412		15.08		17.44	.7	
2437		15.06		17.44	-6	>=0.
2462		15.08		17.43	8	
	l .	802.1	1N(HT20)	Mode		
			2412 MH	,		
Center Freq 2	Analyzer - Occupied BV 75Ω AC 2.412000000 Ref 20.00 dBn	CORREC GHz #FGain:Low	SENSE:INTI Center Freq: 2.41 Trig: Free Run #Atten: 10 dB	ALIGN AUTO	Radio 10	04:15:40 PM Mar 07, 2019 Std: None Device: BTS
Center Freq	75Ω AC 2.41200000 0	CORREC GHz #FGain:Low	Center Freq: 2.41 Trig: Free Run	ALIGN AUTO 2000000 GHz	Radio 10	04:15:40 PM Mar 07, 2019 Std: None
10 dB/div Log 10.0 -10.0 -20.0 -20.0 -40.0	2.412000000	CORREC GHz #FGain:Low	Center Freq: 2.41 Trig: Free Run #Atten: 10 dB	ALIGN AUTO 2000000 GHz	Radio Radio	04:15:40 PMMar 07, 2019 Std: None Device: BTS
Center Freq 2 10 dB/div F Log 0.00 -10.0 -20.0 -30.0 -60.0	2.412000000	CORREC GHz #FGain:Low	Center Freq: 2.41 Trig: Free Run #Atten: 10 dB	ALIGN AUTO 2000000 GHz	Radio Radio	04:15:40 PM Mar 07, 2019 Std: None
10 dB/div F Log 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.4120000000 Ref 20.00 dBn	CORREC GHz #FGain:Low	Center Freq: 2.41 Trig: Free Run #Atten: 10 dB	ALIGN AUTO 2000000 GHz Avg Hold:>10/	Radio Radio	04:15:40 PMMar 07, 2019 Std: None Device: BTS
Center Freq 1 10 dB/div Freq	2.4120000000 Ref 20.00 dBn	GHZ #FGain:Low	Center Freq: 2.41 Trig: Free Run #Atten: 10 dB	ALIGN AUTO 20000000 GHz Avg Hold:>10/	10 Radio	94:15:40 PM Mar 07, 2019 Std: None Device: BTS
Center Freq 1 10 dB/div Freq	2.4120000000 Ref 20.00 dBn	GHZ #FGain:Low	Center Freq: 2.41 Trig: Free Run #Atten: 10 dB	ALIGN AUTO 20000000 GHz Avg Hold:>10/	10 Radio	94:15:40 PM Mar 07, 2019 Std: None Device: BTS





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Attachment E-- Peak Output Power Test Data

Test Conditions: Continuous transmitting Mode						
Temperature:		25 °C Relative H		Relative Humidity:	55%	
Test Voltage:		AC 120/60Hz	MA			
Mode	С	hannel frequency (MHz)	Test Result (dBm)		Limit (dBm)	
		2412		16.08		
802.11b		2437		15.22		
		2462	15.09			
		2412		14.83		
802.11g		2437		14.62	30	
		2462	14.59			
802.11n (HT20)		2412		14.84		
		2437		14.43		
		2462		14.29		
Result: PASS						

Duty Cycle					
Mode	Channel frequency (MHz)	Test Result			
	2412				
802.11b	2437				
	2462				
802.11g	2412				
	2437	>98%			
	2462				
802.11n (HT20)	2412				
	2437				
	2462				

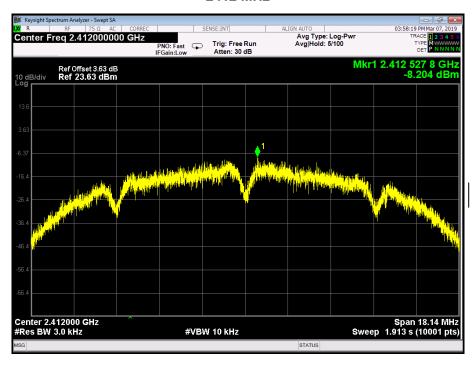


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Attachment F-- Power Spectral Density Test Data

Temperature:	25 °C		Relative Humidity:	55%		
Test Voltage:	AC 120/60Hz					
Test Mode:	TX 802.1	TX 802.11B Mode				
Channel Frequency	uency	Power Density		Limit		
(MHz)		(dBm/3	kHz)	(dBm)		
2412		-8.20)4			
2437		-8.389		8		
2462 -8.442						
<u>'</u>						

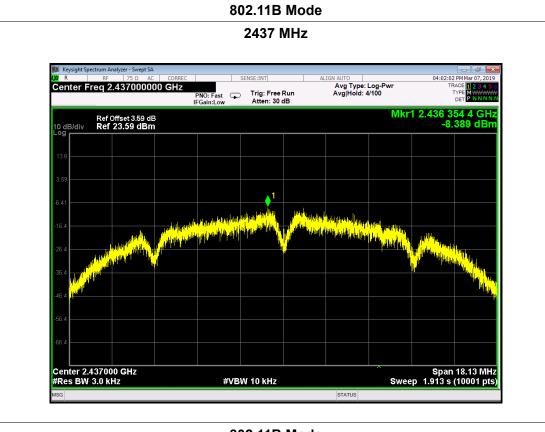
802.11B Mode



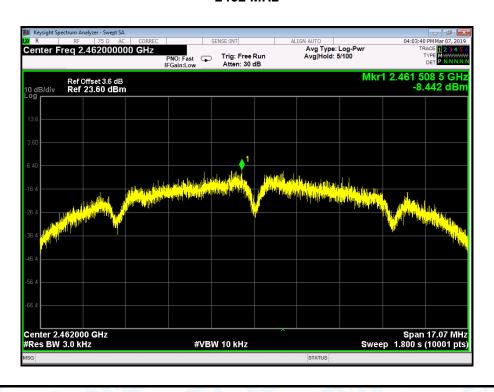


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802.11B Mode

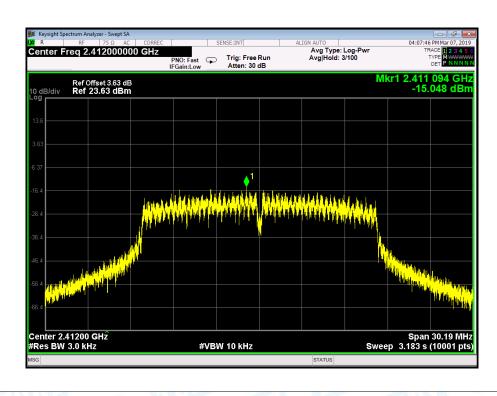




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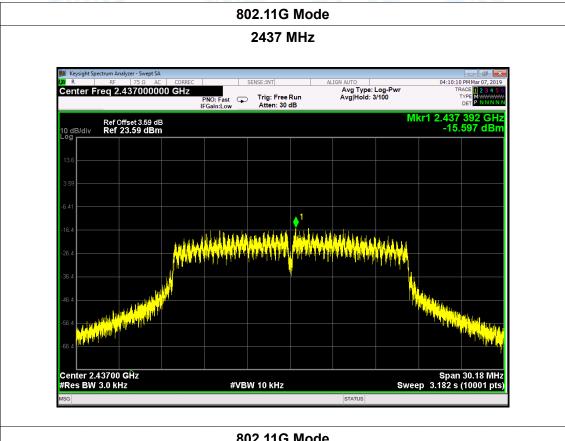
Temperature:	25 ℃		Tempe	ature:	25 ℃	
Test Voltage:	AC 120/60Hz					
Test Mode:	TX 802.11G Mode					
Channel Freq	uency	Power Density			Limit	
(MHz)		(dBm/3 kHz)			(dBm)	
2412		-15	5.048			
2437		-15	5.597		8	
2462		-16	6.540			
		802.11	G Mode	•		

UZ.110 MOGE

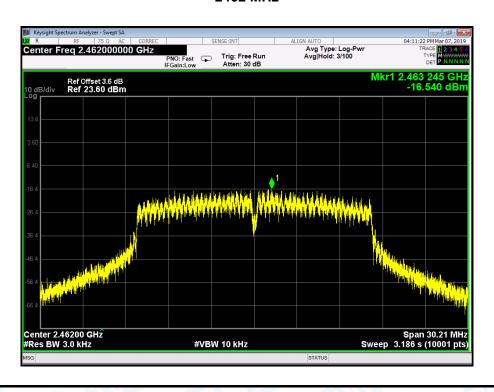




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802.11G Mode

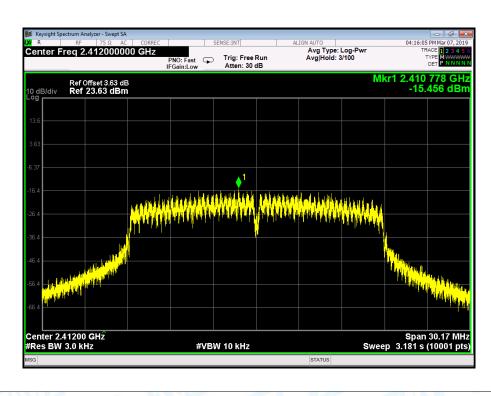




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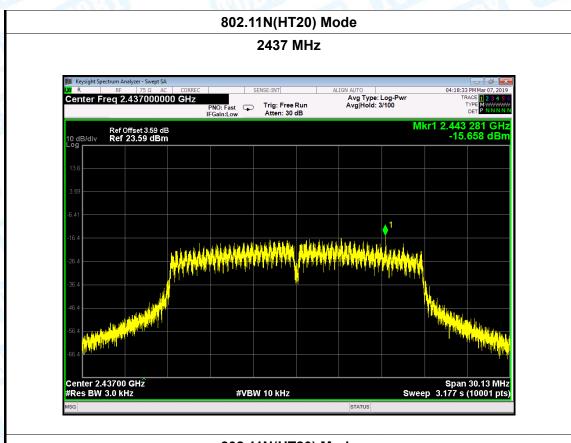
Temperature:	25 ℃		Temperature:	25 ℃	
Test Voltage:	AC 120/60Hz				
Test Mode:	TX 802.11N(HT20) Mode				
Channel Freq	uency	Power Density		Limit	
(MHz)		(dBm/3 kHz) (dBm		(dBm)	
2412	2412		6		
2437		-15.65	8	8	
2462		-15.55	2		
		802 11N/HT2	D) Mode		

802.11N(HT20) Mode

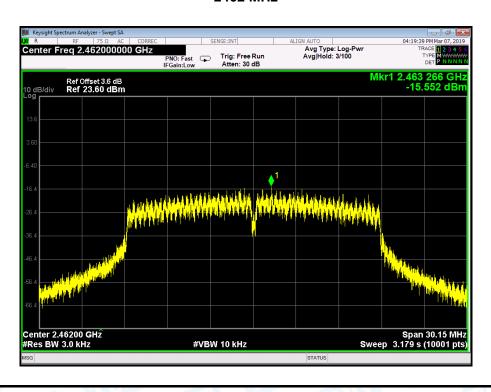




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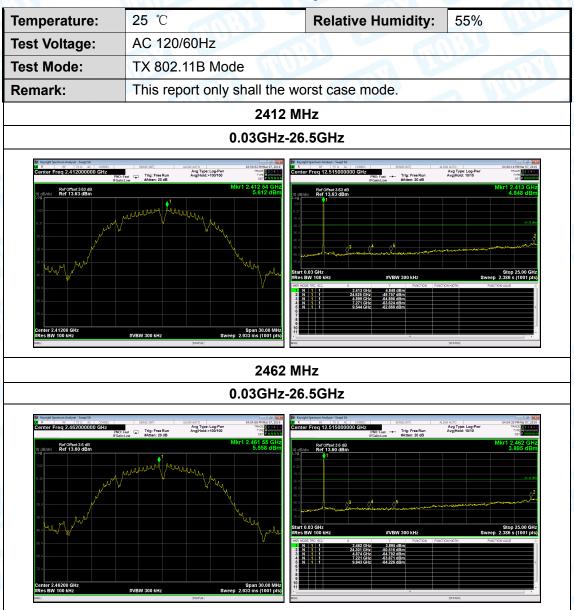
802.11N(HT20) Mode





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Attachment G-- Conducted RF Spurious Emission Test Data



----END OF REPORT----