

Shenzhen Toby Technology Co., Ltd.

Report No.: TB-FCC151600

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FCC Radio Test Report FCC ID: 2AK8F-W23257

Original Grant

Report No. : TB-FCC151600

Applicant : GSM, LLC

Equipment Under Test (EUT)

EUT Name : WIFI OTG CARD READER

Model No. : STC-WIFICR

Series No. : WDM-E18

Brand Name : STEALTHCAM

Receipt Date : 2017-02-27

Test Date : 2017-02-28 to 2017-03-05

Issue Date : 2017-03-06

Standards : FCC Part 15, Subpart C (15.247:2016)

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 FGC and IC requirements

Test/Witness Engineer:

Approved&

Authorized

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

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1. General Information about EUT

1.1 Client Information

Applicant : GSM, LLC

Address : 3385 Roy Orr Blvd. Suite B, Grand Prairie, TX 75050, U.S.A

Manufacturer : WUDOUMI ELECTRONICS TECHNOLOGY CO., LTD

Address: 3F, 5TH BUILDING, XINJIHUI INDUSTRIAL ZONE, HESHU ROAD,

BANTIAN STREET, LONGGANG, SHENZHEN, CHINA.

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	WIFI OTG CARD REA	DER		
Models No.		STC-WIFICR, WFA28	STC-WIFICR, WFA28		
Model Difference	E		entical in the same PCB layout and electrical nce is model name for commercial.		
Product Description		Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz		
		Number of Channel:	802.11b/g/n(HT20):11 channels see note(3) 802.11n(HT40): 7 channels see note(3)		
		RF Output Power:	802.11b: 9.34 dBm 802.11g: 9.32 dBm 802.11n (HT20): 9.36 dBm		
	V	Antenna Gain:	802.11n (HT40): 9.25 dBm 2 dBi Ceramic Antenna		
	3	Modulation Type:	802.11b: DSSS(CCK, QPSK, BPSK) 802.11g: OFDM 802.11n: OFDM		
	5	Bit Rate of Transmitter:	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6 Mbps 802.11n:up to 150Mbps		
Power Supply		DC Voltage Supply by DC Voltage Supply by	the host system		
Power Rating	:		able from the PC system		
Connecting I/O Port(S)	:	Please refer to the User's Manual			



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(1) This Test Report is FCC Part 15.247 for 802.11b/g/n, the test procedure follows the FCC KDB 558074 D01 DTS Meas Guidance v03r05 and KDB 662911 D01 Multiple Transmitter Output v02r01.

- (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- (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	08	2447		

Note: CH 01~CH 11 for 802.11b/g/n(HT20) CH 03~CH 09 for 802.11n(HT40)

(4) Antenna information

Mode		TX Antenna (s)		Remark
802.11b		1	The worst	case is ANT 1 TX
802.1	l1g	180	The worst case is ANT 1	
802.11n((HT20)	2	ANT	1+ANT 2 TX
802.11n((HT40)	2	ANT	1+ANT 2 TX
Antenna	Brand	Model Name	Туре	Antenna Gain(dBi)
ANT1	N/A	N/A	Ceramic	2
AINTI				

1.3 Block Diagram Showing the Configuration of System Tested

TX Mode

EUT



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The EUT has been test as an independent unit

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	TX B Mode				

For Radiated 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 4	TX Mode N(HT40) Mode Channel 03/06/09		

Note:

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

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

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

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

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



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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.

	4033		Software: ool_Dbg	0.000
100	Те	st Mode: Con	tinuously transmi	tting
Mode	Data Bata	Channal	Param	eters
Mode	Data Rate	Channel	ANT 1	ANT 2
	CCK/ 1Mbps	01	1B	10
802.11b	CCK/ 1Mbps	06	1B	10
- 1	CCK/ 1Mbps	11	1C	10
COLDE	OFDM/ 6Mbps	01	19	0F
802.11g	OFDM/ 6Mbps	06	19	0F
	OFDM/ 6Mbps	11	19	0F
ر درا	MCS 0	01	1B	10
802.11n(20)	MCS 0	06	1B	10
a Will	MCS 0	11	1B	10
	MCS 0	03	15	10
802.11n(40)	MCS 0	06	15	10
TIME TO SERVICE	MCS 0	09	15	10

Note: TX signal at 802.11b/g mode only could transmit at Ant.1 or Ant. 2. All the test modes have pretest with two Antenna, but the worst case is ANT 1. The report only show the worst case.



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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	±3.42 dB ±3.42 dB
Radiated Emission	Level Accuracy: 9kHz to 30 MHz	±4.60 dB
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	±4.40 dB
Radiated Emission	Level Accuracy: Above 1000MHz	±4.20 dB

1.7 Test Facility

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

CNAS (L5813)

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

FCC List No.: (811562)

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

IC Registration No.: (11950A-1)

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



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2. Test Summary

Standa	rd Section	Test Item	ludament		
FCC	IC	rest item	Judgment	Remark	
15.203	/	Antenna Requirement	PASS	N/A	
15.207	RSS-GEN 7.2.4	Conducted Emission	PASS	N/A	
15.205	RSS-GEN 7.2.2	Restricted Bands	PASS	N/A	
15.247(a)(2)	RSS 247 5.2 (1)	6dB Bandwidth	PASS	N/A	
15.247(b)	RSS 247 5.4 (4)	Peak Output Power	PASS	N/A	
15.247(e)	RSS 247 5.2 (2)	Power Spectral Density	PASS	N/A	
15.247(d)& 15.209	RSS 247 5.5	Transmitter Radiated Spurious 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

Conducte	d Emission Te	st			
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jul. 22, 2016	Jul. 21, 2017
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jul. 22, 2016	Jul. 21, 2017
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jul. 22, 2016	Jul. 21, 2017
LISN	Rohde & Schwarz	ENV216	101131	Jul. 22, 2016	Jul. 21, 2017
Radiation	Emission Tes	t			
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 22, 2016	Jul. 21, 2017
EMI Test Receiver	Rohde & Schwarz	ESPI	100010/007	Jul. 22, 2016	Jul. 21, 2017
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar. 20, 2016	Mar. 19, 2017
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Mar. 20, 2016	Mar. 19, 2017
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar. 19, 2016	Mar. 18, 2017
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar. 19, 2016	Mar. 18, 2017
Pre-amplifier	Sonoma	310N	185903	Mar. 20, 2016	Mar. 19, 2017
Pre-amplifier	HP	8447B	3008A00849	Mar. 26, 2016	Mar. 25, 2017
Loop Antenna	Laplace instrument	RF300	0701	Mar. 19, 2016	Mar. 18, 2017
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar. 26, 2016	Mar. 25, 2017
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A
Antenna C	Conducted Em	ission			
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 22, 2016	Jul. 21, 2017
Spectrum Analyzer	Rohde & Schwarz	ESCI	100321	Jul. 22, 2016	Jul. 21, 2017
Power Meter	Anritsu	ML2495A	25406005	Jul. 22, 2016	Jul. 21, 2017
Power Sensor	Anritsu	ML2411B	25406005	Jul. 22, 2016	Jul. 21, 2017



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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

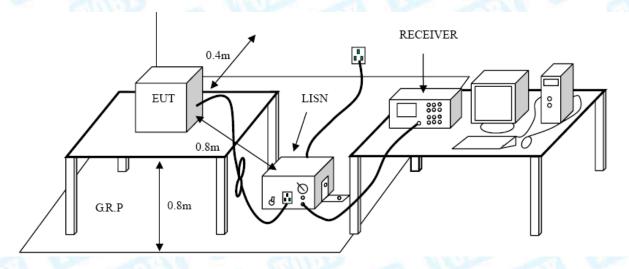
Conducted Emission Test Limit

Fraguency	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



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and forth in the center forming a bundle 30 to 40 cm long.

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

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

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

4.4 EUT Operating Mode

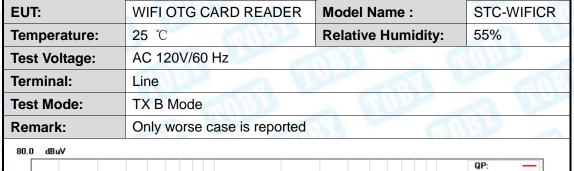
Please refer to the description of test mode.

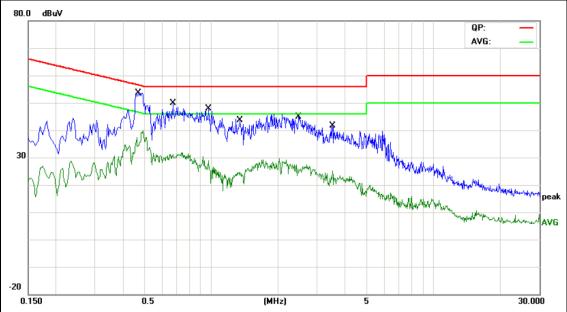
4.5 Test Data

Please see the next page.



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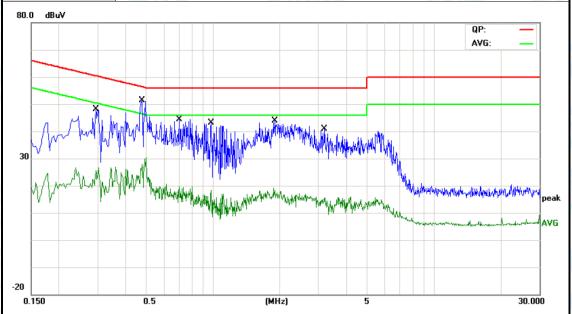


	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
-			MHz	dBu∀	dB	dBuV	dBu∀	dB	Detector
_	1	*	0.4700	39.47	10.02	49.49	56.51	-7.02	QP
-	2		0.4700	24.39	10.02	34.41	46.51	-12.10	AVG
-	3		0.6740	32.20	10.11	42.31	56.00	-13.69	QP
-	4		0.6740	20.04	10.11	30.15	46.00	-15.85	AVG
_	5		0.9740	30.86	10.07	40.93	56.00	-15.07	QP
-	6		0.9740	16.63	10.07	26.70	46.00	-19.30	AVG
-	7		1.3500	25.73	10.06	35.79	56.00	-20.21	QP
_	8		1.3500	12.62	10.06	22.68	46.00	-23.32	AVG
-	9		2.4700	26.15	10.04	36.19	56.00	-19.81	QP
-	10		2.4700	13.23	10.04	23.27	46.00	-22.73	AVG
-	11		3.5180	20.25	10.01	30.26	56.00	-25.74	QP
-	12		3.5180	9.49	10.01	19.50	46.00	-26.50	AVG



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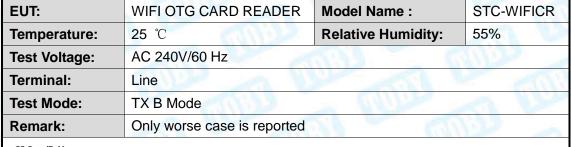
EUT:	WIFI OTG CARD READER	Model Name :	STC-WIFICR
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz	783	
Terminal:	Neutral		Al Die
Test Mode:	TX B Mode	GIVE	4 Br
Remark:	Only worse case is reported	100	1337

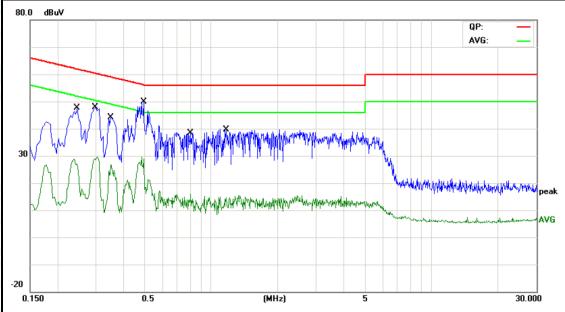


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBu∀	dBu∀	dB	Detector
1		0.2940	31.52	10.09	41.61	60.41	-18.80	QP
2		0.2940	12.06	10.09	22.15	50.41	-28.26	AVG
3	*	0.4780	32.75	10.03	42.78	56.37	-13.59	QP
4		0.4780	12.68	10.03	22.71	46.37	-23.66	AVG
5		0.7019	24.42	10.02	34.44	56.00	-21.56	QP
6		0.7019	5.77	10.02	15.79	46.00	-30.21	AVG
7		0.9820	22.16	10.15	32.31	56.00	-23.69	QP
8		0.9820	1.68	10.15	11.83	46.00	-34.17	AVG
9		1.9020	22.76	10.07	32.83	56.00	-23.17	QP
10		1.9020	3.58	10.07	13.65	46.00	-32.35	AVG
11		3.1980	19.20	10.06	29.26	56.00	-26.74	QP
12		3.1980	1.81	10.06	11.87	46.00	-34.13	AVG



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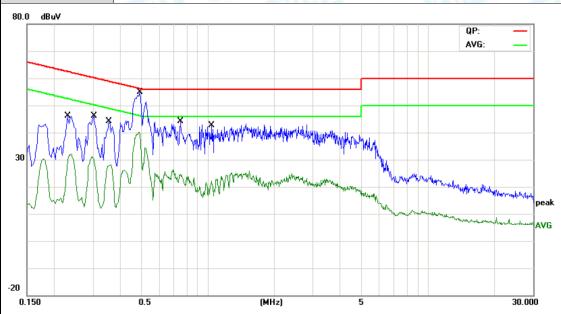


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBu∀	dB	Detector
1		0.2460	32.87	10.10	42.97	61.89	-18.92	QP
2		0.2460	14.73	10.10	24.83	51.89	-27.06	AVG
3		0.2980	33.86	10.09	43.95	60.30	-16.35	QP
4		0.2980	18.18	10.09	28.27	50.30	-22.03	AVG
5		0.3500	29.54	10.07	39.61	58.96	-19.35	QP
6		0.3500	13.59	10.07	23.66	48.96	-25.30	AVG
7	*	0.4940	33.06	10.02	43.08	56.10	-13.02	QP
8		0.4940	13.00	10.02	23.02	46.10	-23.08	AVG
9		0.8059	21.25	10.07	31.32	56.00	-24.68	QP
10		0.8059	2.19	10.07	12.26	46.00	-33.74	AVG
11		1.1700	21.84	10.14	31.98	56.00	-24.02	QP
12		1.1700	2.18	10.14	12.32	46.00	-33.68	AVG



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EUT:	WIFI OTG CARD READER	Model Name :	STC-WIFICR			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 240V/60 Hz					
Terminal:	Neutral					
Test Mode:	TX B Mode					
Remark:	Only worse case is reported	non The				



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBu∀	dBuV	dB	Detector
1		0.2300	30.81	10.02	40.83	62.45	-21.62	QP
2		0.2300	19.09	10.02	29.11	52.45	-23.34	AVG
3		0.3020	30.58	10.02	40.60	60.19	-19.59	QP
4		0.3020	20.11	10.02	30.13	50.19	-20.06	AVG
5		0.3540	28.27	10.02	38.29	58.87	-20.58	QP
6		0.3540	17.16	10.02	27.18	48.87	-21.69	AVG
7	*	0.4900	41.51	10.02	51.53	56.17	-4.64	QP
8		0.4900	29.31	10.02	39.33	46.17	-6.84	AVG
9		0.7500	29.03	10.11	39.14	56.00	-16.86	QP
10		0.7500	14.60	10.11	24.71	46.00	-21.29	AVG
11		1.0380	25.23	10.06	35.29	56.00	-20.71	QP
12		1.0380	11.13	10.06	21.19	46.00	-24.81	AVG



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5. Radiated Emission Test

5.1 Test Standard and Limit

5.1.1 Test Standard FCC Part 15.209

5.1.2 Test Limit

Radiated Emission Limits (9kHz~1000MHz)

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

Radiated Emission Limit (Above 1000MHz)

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

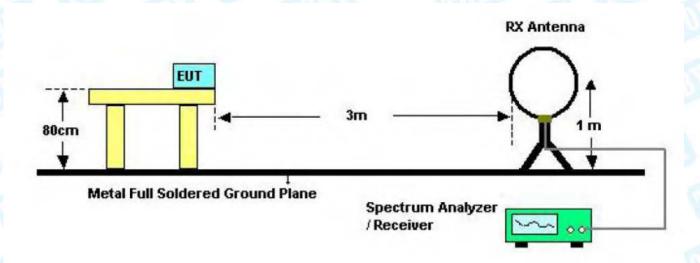
Note:

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

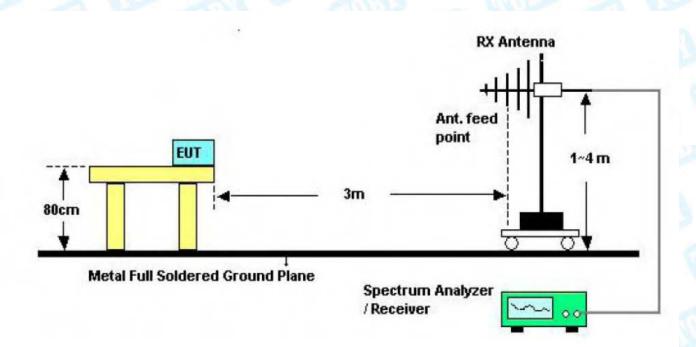


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5.2 Test Setup



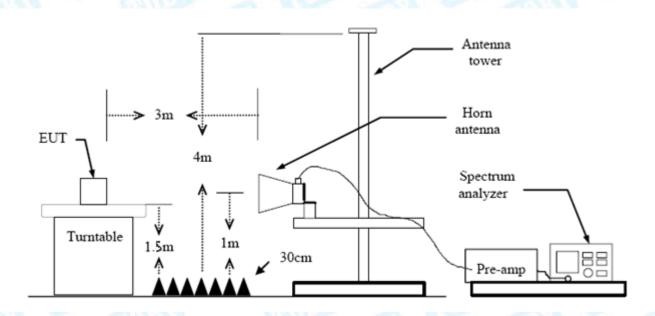
Below 30MHz Test Setup



Below 1000MHz Test Setup



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Above 1GHz Test Setup

5.3 Test Procedure

- (1) 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.



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5.4 EUT Operating Condition

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

5.5 Test Data

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

Test data please refer the following pages.



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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

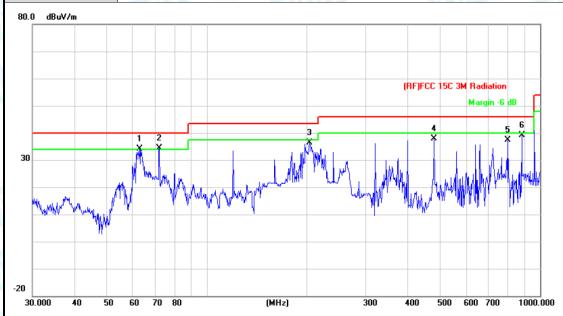
EUT:		W	IFI O	TG CARD F	READER	Model:		STO	C-WIFICE
Tempera	ture:		5 ℃			Relative	Humidity:		
Test Voltage: AC 120V/60 H				V/60 Hz	1000		NV	V	
Ant. Pol. Horizontal						(MI)			
Test Mod	le:	T	КВМ	ode 2412M	2412MHz				
Remark:		Or	nly wo	orse case is	reported				
80.0 dBuV/	m'								
			1		2 3			Margin	-6 dB
30 May 1997	r _m ,m	UMM)				MANY TV	or Proper layer proper layers	1/4/1/44/	
May 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	40	50 60	70	1 N N N N N N N N N N N N N N N N N N N	(MHz)	300	A00 500	500 70	
20 30.000	40 Mk.		eq.	80 Reading Level	(MHz) Correct Factor	300 Measure- ment		Over	
20 30.000 No.	Mk.	Fre	eq.	Reading Level	Correct Factor	Measure- ment dBuV/m	Limit (Over dB	00 1000.00 Detector
20 30.000 No.		Fre	eq.	Reading Level	Correct Factor	Measure- ment	Limit (Over	
20 30.000 No.	Mk.	Fre	eq. Hz 132	Reading Level	Correct Factor	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
20 30.000 No.	Mk.	Fre	eq. Hz 132 7844	Reading Level dBuV 60.80	Correct Factor dB/m -24.30	Measure- ment dBuV/m 36.50	Limit dBuV/m 40.00 43.50	Over	Detector peak
20 30.000 No.	Mk.	Fre MH 63.3	eq. 132 132 7844	Reading Level dBuV 60.80 59.51	Correct Factor dB/m -24.30 -20.29	Measure- ment dBuV/m 36.50 39.22	Limit dBuV/m 40.00 43.50 43.50	Over dB -3.50 -4.28	Detector peak peak
20 30.000 No. 1 2 3	Mk. !!!!!!!!	Fre MH 63.3 159.7 203.5	eq. 132 7844 5226	Reading Level dBuV 60.80 59.51 59.18	Correct Factor dB/m -24.30 -20.29 -19.84	Measure- ment dBuV/m 36.50 39.22 39.34	Limit dBuV/m 40.00 43.50 43.50 46.00	Over dB -3.50 -4.28 -4.16	Detector peak peak peak

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



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EUT:	WIFI OTG CARD READER	Model:	STC-WIFICR			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 Hz					
Ant. Pol.	Vertical		100			
Test Mode:	TX B Mode 2412MHz					
Remark:	Only worse case is reported	Alm I	1373			



	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		į	62.8708	58.43	-24.34	34.09	40.00	-5.91	peak
2		*	72.0841	57.87	-23.61	34.26	40.00	-5.74	peak
3			203.5226	56.30	-19.84	36.46	43.50	-7.04	peak
4			480.5276	49.04	-11.13	37.91	46.00	-8.09	peak
5			801.7862	42.75	-5.27	37.48	46.00	-8.52	peak
6			881.4067	43.44	-4.35	39.09	46.00	-6.91	peak

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



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Above 1GHz

EUT:	WIFI OTG CARD READER	Model:	STC-WIFICR
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal	The same of the sa	THE STATE OF
Test Mode:	TX B Mode 2412MHz ANT 1	THE PERSON NAMED IN	-3 M
Remark:	No report for the emission wh limit.	ich more than 10 dB b	elow the prescribed



No	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4824.775	43.20	13.56	56.76	74.00	-17.24	peak
2	*	4824.987	29.88	13.56	43.44	54.00	-10.56	AVG



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EUT:	WIFI OTG CARD READER Model : STC-WI					
Temperature:	25 °C Relative Humidity: 55%					
Test Voltage:	AC 120V/60 Hz					
Ant. Pol.	Vertical					
Test Mode:	TX B Mode 2412MHz ANT 1					
Remark:	No report for the emission which	h more than 10 dB bel	ow the			
	prescribed limit.					

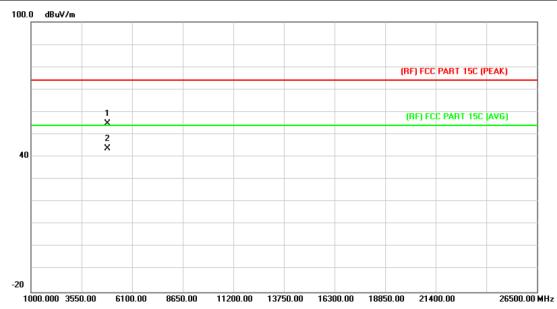


N	o. I	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
			MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	t	4824.698	30.05	13.56	43.61	54.00	-10.39	AVG
2			4825.660	43.70	13.57	57.27	74.00	-16.73	peak



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EUT:	WIFI OTG CARD READER Model: STC-WIF					
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 Hz					
Ant. Pol.	Horizontal					
Test Mode:	TX B Mode 2437MHz ANT 1	4/1/1	2			
Remark:	No report for the emission which more than 10 dB below the					
	prescribed limit.					

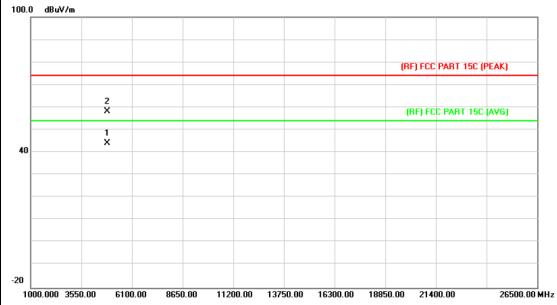


No	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.820	41.08	13.86	54.94	74.00	-19.06	peak
2	*	4874.888	30.03	13.86	43.89	54.00	-10.11	AVG



Page: 26 of 102

EUT:	WIFI OTG CARD READER Model: STC-WIF					
Temperature:	25 °C Relative Humidity: 55%					
Test Voltage:	AC 120V/60 Hz					
Ant. Pol.	Vertical					
Test Mode:	TX B Mode 2437MHz ANT 1	WILLS	(1) Br			
Remark:	No report for the emission which more than 10 dB below the					
	prescribed limit.					

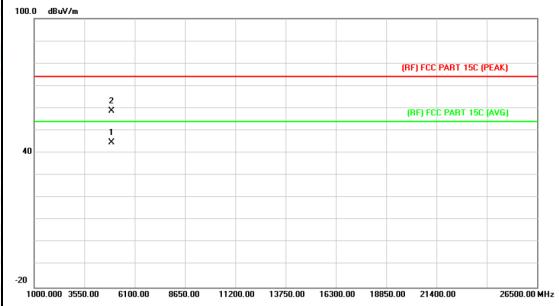


No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4874.652	30.17	13.86	44.03	54.00	-9.97	AVG
2		4874.681	44.41	13.86	58.27	74.00	-15.73	peak



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EUT:	WIFI OTG CARD READER	Model:	STC-WIFICR				
Temperature:	25 ℃	Relative Humidity: 55%					
Test Voltage:	AC 120V/60 Hz	AC 120V/60 Hz					
Ant. Pol.	Horizontal						
Test Mode:	TX B Mode 2462MHz ANT 1	WILLS	43 Br				
Remark:	No report for the emission which more than 10 dB below the						
	prescribed limit.						



N	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4923.044	30.42	14.15	44.57	54.00	-9.43	AVG
2		4924.665	44.69	14.15	58.84	74.00	-15.16	peak



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EUT:	WIFI OTG CARD READER Model: STC-WIFIG						
Temperature:	25 °C Relative Humidity: 55%						
Test Voltage:	AC 120V/60 Hz	AC 120V/60 Hz					
Ant. Pol.	Vertical						
Test Mode:	TX B Mode 2462MHz ANT 1	WILLIAM -	3 B				
Remark:	No report for the emission which more than 10 dB below the						
	prescribed limit.						



N	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4923.664	30.28	14.15	44.43	54.00	-9.57	AVG
2		4925.444	43.87	14.16	58.03	74.00	-15.97	peak



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EUT:	WIFI OTG CARD READER	Model:	STC-WIFICR		
Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	AC 120V/60 Hz				
Ant. Pol.	Horizontal				
Test Mode:	TX G Mode 2412MHz ANT 1	THE PERSON NAMED IN	J. 17		
Remark:	No report for the emission which more than 10 dB below the prescribed				
	limit.				

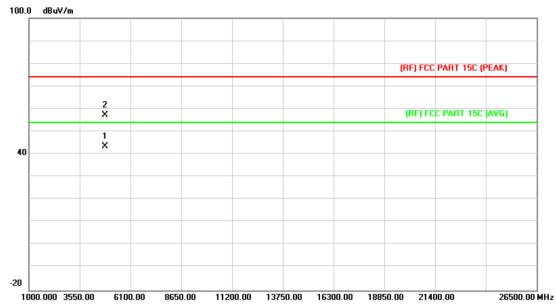


No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4824.010	43.59	13.56	57.15	74.00	-16.85	peak
2	*	4824.621	30.07	13.56	43.63	54.00	-10.37	AVG



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i	EUT:	WIFI OTG CARD READER	Model:	STC-WIFICR			
h	Temperature:	25 ℃	Relative Humidity:	55%			
	Test Voltage:	AC 120V/60 Hz	833 E 6				
Í	Ant. Pol.	Vertical		A Dist			
	Test Mode:	TX G Mode 2412MHz ANT 1	THE PARTY OF	3 m			
į	Remark:	No report for the emission which	No report for the emission which more than 10 dB below the				
ı		prescribed limit.					
١							



No	o. Mi	k. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4823.159	29.86	13.56	43.42	54.00	-10.58	AVG
2		4824.003	43.56	13.56	57.12	74.00	-16.88	peak



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EUT:	WIFI OTG CARD READER	Model:	STC-WIFICR					
Temperature:	25 ℃	25 °C Relative Humidity: 55%						
Test Voltage:	AC 120V/60 Hz		111111111111111111111111111111111111111					
Ant. Pol.	Horizontal		TITLE .					
Test Mode:	TX G Mode 2437MHz ANT 1	THE PERSON NAMED IN	CI 150					
Remark:	No report for the emission which	No report for the emission which more than 10 dB below the						
	prescribed limit.							

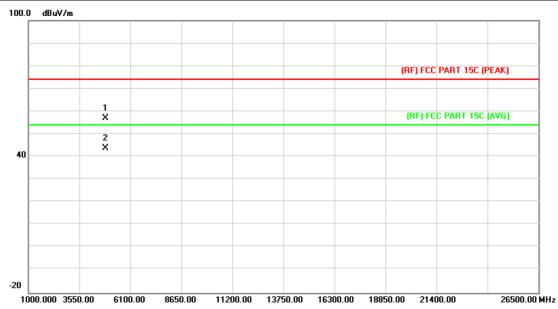


No	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.600	43.34	13.86	57.20	74.00	-16.80	peak
2	*	4873.750	29.87	13.86	43.73	54.00	-10.27	AVG



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EUT:	WIFI OTG CARD READER	Model:	STC-WIFICR					
Temperature:	25 ℃	Relative Humidity:	55%					
Test Voltage:	AC 120V/60 Hz	AC 120V/60 Hz						
Ant. Pol.	Vertical	The second of	1111					
Test Mode:	TX G Mode 2437MHz ANT 1	WILLIAM STATE	a W					
Remark:	No report for the emission which	No report for the emission which more than 10 dB below the						
	prescribed limit.							

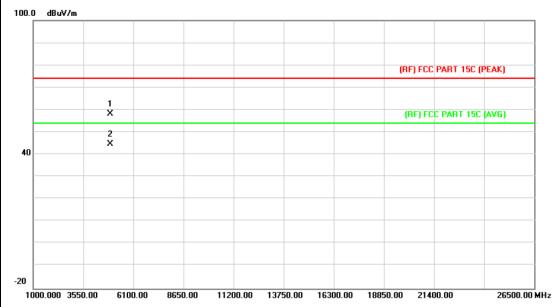


No	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4874.128	43.00	13.86	56.86	74.00	-17.14	peak
2	*	4874.958	29.80	13.86	43.66	54.00	-10.34	AVG



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WIFI OTG CARD READER	Model:	STC-WIFICR				
25 ℃ Relative Humidity: 55%						
AC 120V/60 Hz	AC 120V/60 Hz					
Horizontal		THE STATE OF				
TX G Mode 2462MHz ANT 1	- GILL	13 Br				
No report for the emission wh prescribed limit.	ich more than 10 dB be	elow the				
	25 °C AC 120V/60 Hz Horizontal TX G Mode 2462MHz ANT 1 No report for the emission wh	25 °C Relative Humidity: AC 120V/60 Hz Horizontal TX G Mode 2462MHz ANT 1 No report for the emission which more than 10 dB be				



No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4924.472	43.91	14.15	58.06	74.00	-15.94	peak
2	*	4925.360	30.42	14.16	44.58	54.00	-9.42	AVG



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EUT:	WIFI OTG CARD READER	Model:	STC-WIFICR				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 Hz		THE STATE OF				
Ant. Pol.	Vertical		THE STATE OF				
Test Mode:	TX G Mode 2462MHz ANT 1	- GIII	4 PM				
Remark:	No report for the emission wh	No report for the emission which more than 10 dB below the					
	prescribed limit.						

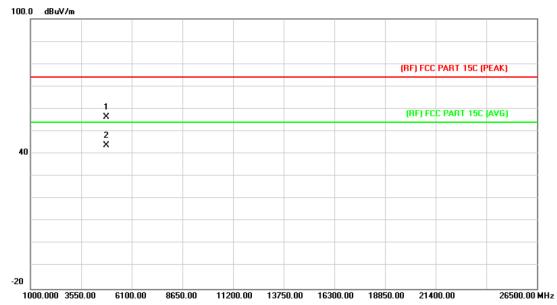


N	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4924.524	44.20	14.15	58.35	74.00	-15.65	peak
2	*	4925.460	30.40	14.16	44.56	54.00	-9.44	AVG



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WIFICR					
AC 120V/60 Hz					
A STATE					
No report for the emission which more than 10 dB below the					
prescribed limit.					



No	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4824.006	42.76	13.56	56.32	74.00	-17.68	peak
2	*	4824.629	30.10	13.56	43.66	54.00	-10.34	AVG



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EUT:	WIFI OTG CARD READER Model:		STC-WIFICR			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage: AC 120V/60 Hz						
Ant. Pol. Vertical						
Test Mode:	TX N(HT20) Mode 2412MHz ANT 1+2					
Remark:	No report for the emission which more than 10 dB below the					
	prescribed limit.					

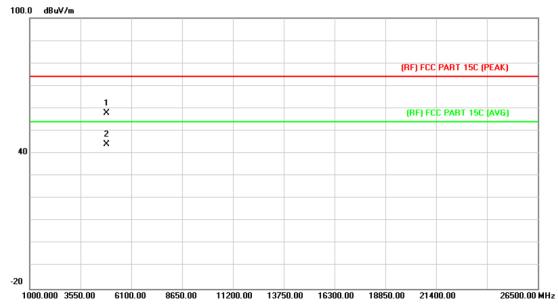


N	lo.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
			MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1			4824.359	44.00	13.56	57.56	74.00	-16.44	peak
2		*	4824.620	29.98	13.56	43.54	54.00	-10.46	AVG



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EUT:	WIFI OTG CARD READER	Model:	STC-WIFICR				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 Hz						
Ant. Pol.	Horizontal		THE STATE OF				
Test Mode:	TX N(HT20) Mode 2437MHz	ANT 1+2	1 Pm				
Remark:	No report for the emission wh	ich more than 10 dB be	low the				
	prescribed limit.						



No	. Mk	. Freq.	_		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4874.400	44.07	13.86	57.93	74.00	-16.07	peak
2	*	4874.521	30.10	13.86	43.96	54.00	-10.04	AVG



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EUT:	WIFI OTG CARD READER	Model:	STC-WIFICR				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 Hz	TO THE OWNER OF THE OWNER OWNER OF THE OWNER OWN	THE STATE OF				
Ant. Pol.	Vertical		100				
Test Mode:	TX N(HT20) Mode 2437MHz	ANT 1+2	CI W				
Remark:	No report for the emission wh	No report for the emission which more than 10 dB below the					
	prescribed limit.						



N	o. Mł	c. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4874.050	29.92	13.86	43.78	54.00	-10.22	AVG
2		4874.625	42.84	13.86	56.70	74.00	-17.30	peak



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EUT:	WIFI OTG CARD READER	WIFI OTG CARD READER Model: STC-WI							
Temperature:	25 ℃	Relative Humidity:	55%						
Test Voltage:	AC 120V/60 Hz	AC 120V/60 Hz							
Ant. Pol.	Horizontal		1000						
Test Mode:	TX N(HT20) Mode 2462MHz	ANT 1+2							
Remark:	No report for the emission wh	No report for the emission which more than 10 dB below the prescribed							
	limit.								



No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4874.159	42.55	13.86	56.41	74.00	-17.59	peak
2	*	4874.168	30.09	13.86	43.95	54.00	-10.05	AVG



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EUT:	WIFI OTG CARD READER	WIFI OTG CARD READER Model: STC-						
Temperature:	25 ℃	Relative Humidity:	55%					
Test Voltage:	AC 120V/60 Hz	AC 120V/60 Hz						
Ant. Pol.	Vertical		Time.					
Test Mode:	TX N(HT20) Mode 2462MHz	ANT 1+2	43 Br					
Remark:	No report for the emission wh	No report for the emission which more than 10 dB below the						
	prescribed limit.							

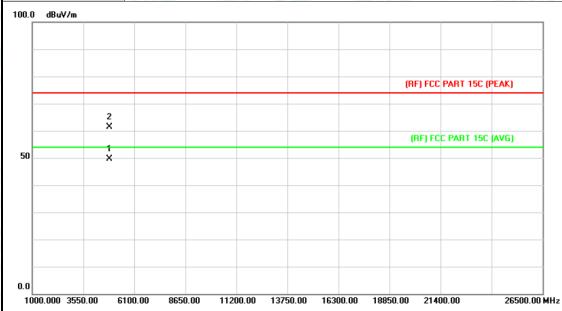


No	o. Mk	. Freq.	_	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4924.724	44.43	14.15	58.58	74.00	-15.42	peak
2	*	4925.780	30.24	14.16	44.40	54.00	-9.60	AVG



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EUT:	WIFI OTG CARD READER	WIFI OTG CARD READER Model : STC-W						
Temperature:	25 ℃	Relative Humidity: 55%						
Test Voltage:	AC 120V/60 Hz	AC 120V/60 Hz						
Ant. Pol.	Horizontal		110					
Test Mode:	TX N(HT40) Mode 2422MHz	ANT 1+2	43 PM					
Remark:	No report for the emission wh	No report for the emission which more than 10 dB below the						
	prescribed limit.							

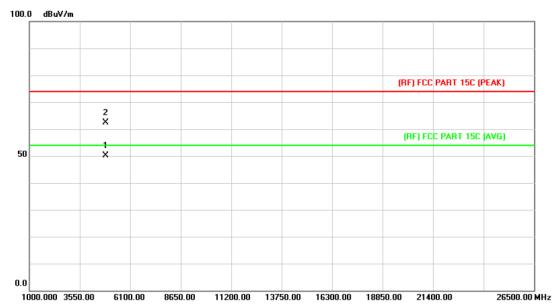


N	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4843.751	35.93	13.68	49.61	54.00	-4.39	AVG
2		4844.651	47.61	13.68	61.29	74.00	-12.71	peak



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EUT:	WIFI OTG CARD READER	OTG CARD READER Model: STC-WIFIC						
Temperature:	25 ℃	Relative Humidity: 55%						
Test Voltage:	AC 120V/60 Hz	AC 120V/60 Hz						
Ant. Pol.	Vertical		THE STATE OF					
Test Mode:	TX N(HT40) Mode 2422MHz A	NT 1+2	43 Br					
Remark:	No report for the emission which	No report for the emission which more than 10 dB below the						
	prescribed limit.							

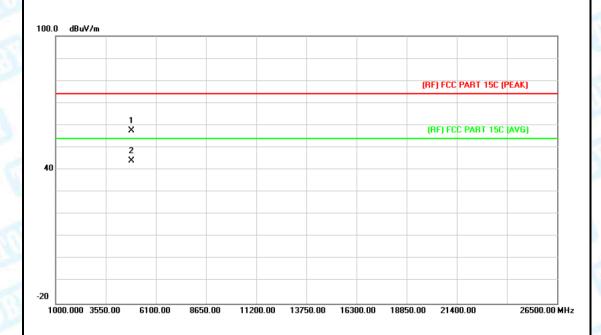


No	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4843.215	36.45	13.68	50.13	54.00	-3.87	AVG
2		4844.012	48.63	13.68	62.31	74.00	-11.69	peak



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EUT:	WIFI OTG CARD READER	Model:	STC-WIFICR			
Temperature:	25 ℃	Relative Humidity: 55%				
Test Voltage:	AC 120V/60 Hz					
Ant. Pol.	Horizontal		Times .			
Test Mode:	TX N(HT40) Mode 2437MHz	ANT 1+2	J. 12.			
Remark:	No report for the emission which more than 10 dB below the prescribed limit.					

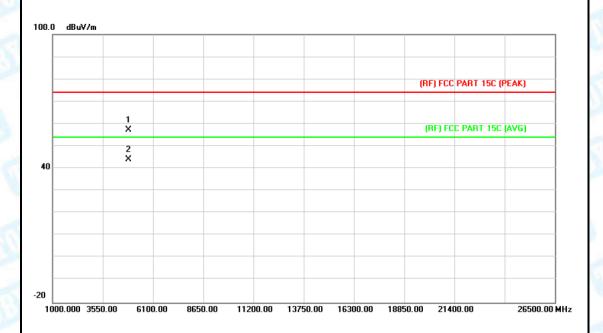


No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4874.066	43.56	13.86	57.42	74.00	-16.58	peak
2	*	4874.652	30.17	13.86	44.03	54.00	-9.97	AVG



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WIFI OTG CARD READER	Model:	STC-WIFICR			
25 ℃	Relative Humidity: 55%				
AC 120V/60 Hz					
Vertical		100			
TX N(HT40) Mode 2437MHz	ANT 1+2	- Br			
No report for the emission which more than 10 dB below the					
prescribed limit.					
	25 °C AC 120V/60 Hz Vertical TX N(HT40) Mode 2437MHz No report for the emission wh	25 °C Relative Humidity: AC 120V/60 Hz Vertical TX N(HT40) Mode 2437MHz ANT 1+2 No report for the emission which more than 10 dB be			



No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.110	43.48	13.86	57.34	74.00	-16.66	peak
2	*	4874.025	30.17	13.86	44.03	54.00	-9.97	AVG



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EUT:	WIFI OTG CARD READER	CARD READER Model: STC-WIF				
Temperature:	25 ℃	Relative Humidity: 55%				
Test Voltage:	AC 120V/60 Hz					
Ant. Pol.	Horizontal		Times .			
Test Mode:	TX N(HT40) Mode 2452MHz	ANT 1+2	ST BY			
Remark:	No report for the emission which more than 10 dB below the prescribed					
	limit.					



No	. Mk	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4903.272	42.94	14.03	56.97	74.00	-17.03	peak
2	*	4903.824	30.15	14.03	44.18	54.00	-9.82	AVG



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EUT:	WIFI OTG CARD READER	ADER Model: STC-WIF					
Temperature:	25 ℃	5 °C Relative Humidity: 55%					
Test Voltage:	AC 120V/60 Hz						
Ant. Pol.	Vertical		100				
Test Mode:	TX N(HT40) Mode 2452MHz	ANT 1+2	13 Br				
Remark:	No report for the emission which more than 10 dB below the						
	prescribed limit.						



No	o. N	Λk.	Freq.	Reading Level		Measure- ment	Limit	Over	
			MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	•	4903.784	30.07	14.03	44.10	54.00	-9.90	AVG
2		•	4904.160	43.52	14.03	57.55	74.00	-16.45	peak



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6. Restricted Bands Requirement

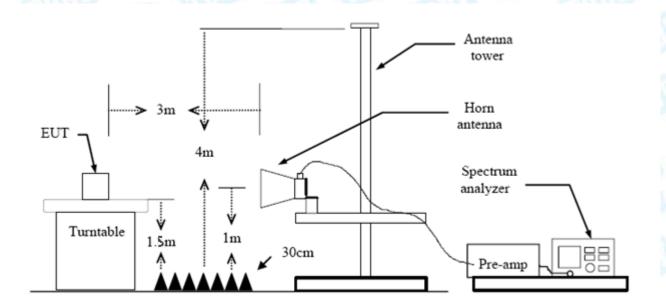
6.1 Test Standard and Limit

6.1.1 Test Standard FCC Part 15.209 FCC Part 15.205

6.1.2 Test Limit

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

6.2 Test Setup

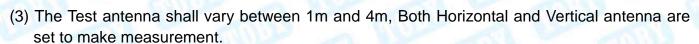


6.3 Test Procedure

- (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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- (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

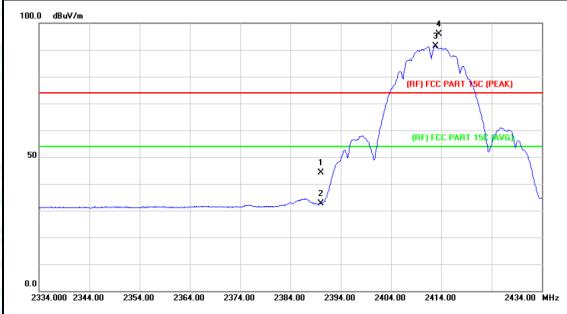
Please see the next page.



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(1) Radiation Test

EUT:	WIFI OTG CARD READER	Model:	STC-WIFICR				
Temperature:	25 ℃	55%					
Test Voltage:	AC 120V/60 Hz	AC 120V/60 Hz					
Ant. Pol.	Horizontal	- alling					
Test Mode:	TX B Mode 2412MHz ANT1						
Remark:	N/A						

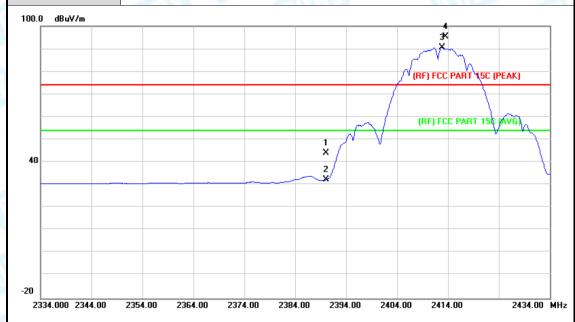


No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	43.29	0.77	44.06	74.00	-29.94	peak
2		2390.000	31.88	0.77	32.65	54.00	-21.35	AVG
3	*	2412.800	90.48	0.86	91.34	Fundamental Frequency		AVG
4	X	2413.500	94.98	0.86	95.84	Fundamental Frequency		peak



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EUT:	WIFI OTG CARD READER	Model:	STC-WIFICR			
Temperature:	perature: 25 °C Relative Humidity: 55%					
Test Voltage:	AC 120V/60 Hz	AC 120V/60 Hz				
Ant. Pol.	Vertical		100			
Test Mode:	TX B Mode 2412MHz ANT 1					
Remark:	N/A		W.D			

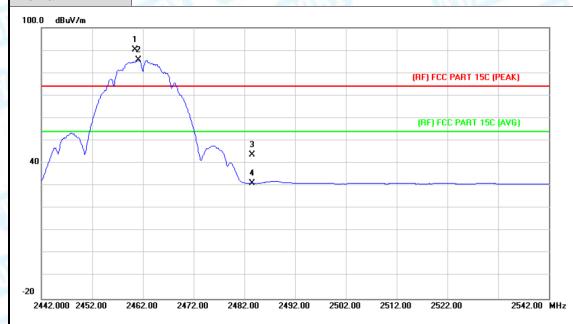


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	43.41	0.77	44.18	74.00	-29.82	peak
2		2390.000	31.47	0.77	32.24	54.00	-21.76	AVG
3	*	2412.800	89.78	0.86	90.64	Fundamenta	al Frequency	AVG
4	Χ	2413.500	94.43	0.86	95.29	Fundamenta	al Frequency	peak



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EUT:	WIFI OTG CARD READER	Model:	STC-WIFICR
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz	181	
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2462MHz ANT 1		5
Remark:	N/A	SE TO SE	U.D

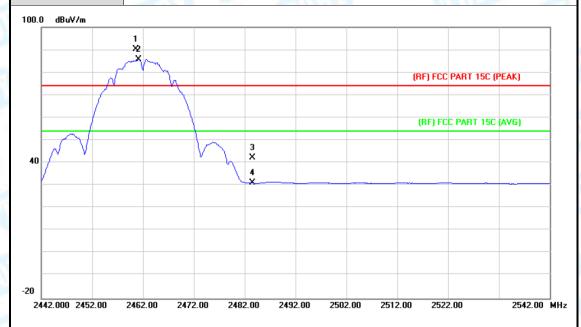


No.	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	Χ	2460.500	89.05	1.06	90.11	Fundamental Frequency		peak
2	*	2461.200	84.55	1.07	85.62	Fundamental	Frequency	AVG
3		2483.500	42.61	1.17	43.78	74.00	-30.22	peak
4		2483.500	29.97	1.17	31.14	54.00	-22.86	AVG



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EUT:	WIFI OTG CARD READER	Model:	STC-WIFICR			
Temperature:	25 ℃	Relative Humidity: 55%				
Test Voltage:	AC 120V/60 Hz					
Ant. Pol.	Vertical		100			
Test Mode:	TX B Mode 2462MHz ANT 1					
Remark:	N/A		W.D			

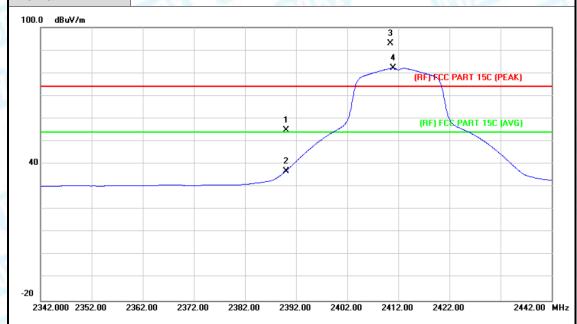


No	o. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	Χ	2460.600	89.25	1.06	90.31	Fundamental	Frequency	peak
2	*	2461.200	84.78	1.07	85.85	Fundamental	Frequency	AVG
3		2483.500	40.94	1.17	42.11	74.00	-31.89	peak
4		2483.500	29.87	1.17	31.04	54.00	-22.96	AVG



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EUT:	WIFI OTG CARD READER	Model:	STC-WIFICR
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz	181	
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2412MHz ANT 1		5
Remark:	N/A	SE TO SE	U.D.

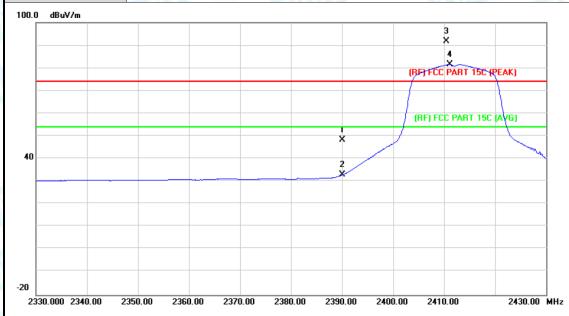


No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	54.02	0.77	54.79	74.00	-19.21	peak
2		2390.000	36.20	0.77	36.97	54.00	-17.03	AVG
3	X	2410.500	92.12	0.86	92.98	Fundamenta	al Frequency	peak
4	*	2411.000	81.30	0.86	82.16	Fundamenta	al Frequency	AVG



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EUT:	WIFI OTG CARD READER	Model:	STC-WIFICR					
Temperature:	25 ℃	Relative Humidity:	55%					
Test Voltage:	AC 120V/60 Hz	AC 120V/60 Hz						
Ant. Pol.	Vertical							
Test Mode:	TX G Mode 2412MHz ANT 1							
Remark:	N/A							

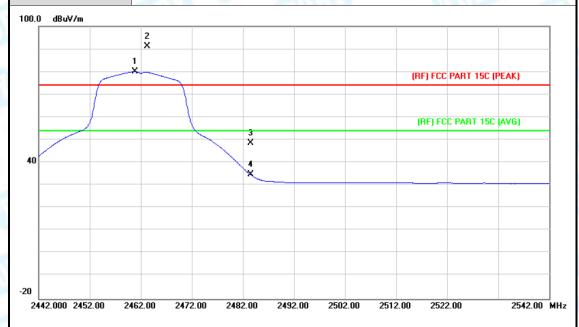


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	47.42	0.77	48.19	74.00	-25.81	peak
2		2390.000	32.04	0.77	32.81	54.00	-21.19	AVG
3	X	2410.500	91.02	0.86	91.88	Fundamental	Frequency	peak
4	*	2411.100	80.68	0.86	81.54	Fundamental	Frequency	AVG



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EUT:	WIFI OTG CARD READER	Model:	STC-WIFICR			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 Hz					
Ant. Pol.	Horizontal		100			
Test Mode:	TX G Mode 2462MHz ANT 1					
Remark:	N/A	The second	11:30			

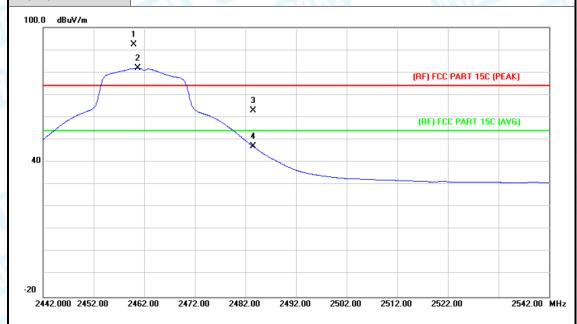


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2460.900	79.10	1.06	80.16	Fundamental Frequency		AVG
2	Χ	2463.300	90.20	1.08	91.28	Fundamental	Frequency	peak
3		2483.500	47.50	1.17	48.67	74.00	-25.33	peak
4		2483.500	33.48	1.17	34.65	54.00	-19.35	AVG



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EUT:	WIFI OTG CARD READER	Model:	STC-WIFICR
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz	188	
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2462MHz ANT 1		5
Remark:	N/A	20 000	11:15

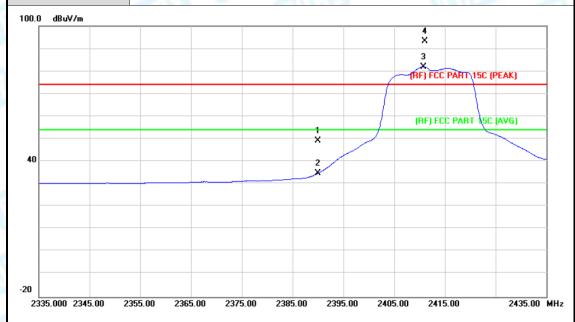


No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	Χ	2459.900	91.26	1.06	92.32	Fundamental Frequency		peak
2	*	2460.700	80.93	1.06	81.99	Fundamenta	l Frequency	AVG
3		2483.500	61.75	1.17	62.92	74.00	-11.08	peak
4		2483.500	45.86	1.17	47.03	54.00	-6.97	AVG



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EUT:	T: WIFI OTG CARD READER Model:					
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 Hz					
Ant. Pol.	Horizontal		100			
Test Mode:	TX N(HT20) Mode 2412MHz ANT 1+2					
Remark:	N/A					

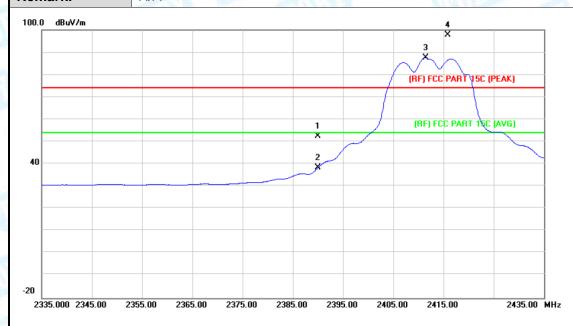


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	48.36	0.77	49.13	74.00	-24.87	peak
2		2390.000	34.03	0.77	34.80	54.00	-19.20	AVG
3	*	2410.800	81.12	0.86	81.98	Fundamental Frequency		AVG
4	X	2411.100	92.28	0.86	93.14	Fundamental	Frequency	peak



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EUT:	WIFI OTG CARD READER	Model:	STC-WIFICR				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 Hz	AC 120V/60 Hz					
Ant. Pol.	Vertical		100				
Test Mode:	TX N(HT20) Mode 2412MHz ANT 1+2						
Remark:	N/A						

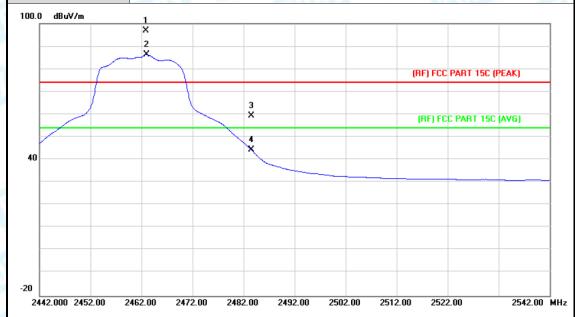


1	No. M	1k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		:	2390.000	51.54	0.77	52.31	74.00	-21.69	peak
2		- :	2390.000	37.50	0.77	38.27	54.00	-15.73	AVG
3	*		2411.400	86.77	0.86	87.63	Fundamenta	l Frequency	AVG
4	X		2415.800	96.74	0.88	97.62	Fundamenta	I Frequency	peak



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EUT:	Model:	STC-WIFICR				
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 Hz					
Ant. Pol.	Horizontal		100			
Test Mode:	TX N(HT20) Mode 2462MHz ANT 1+2					
Remark:	N/A					

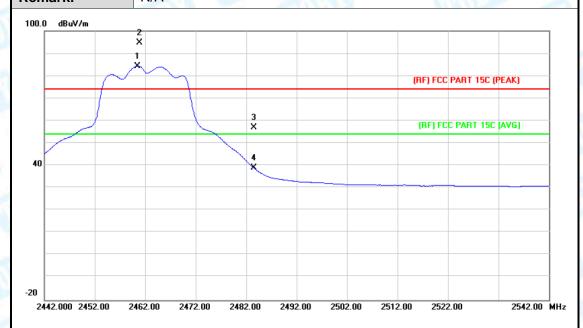


No	o. Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	Χ	2462.900	95.85	1.08	96.93	Fundamental Frequency		peak
2	*	2463.000	85.29	1.08	86.37	Fundamental	Frequency	AVG
3		2483.500	58.23	1.17	59.40	74.00	-14.60	peak
4		2483.500	43.14	1.17	44.31	54.00	-9.69	AVG



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EUT:	WIFI OTG CARD READER Model:		STC-WIFICR				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 Hz	188					
Ant. Pol.	Vertical		100				
Test Mode:	TX N(HT20) Mode 2462MHz	TX N(HT20) Mode 2462MHz ANT 1+2					
Remark:	N/A						

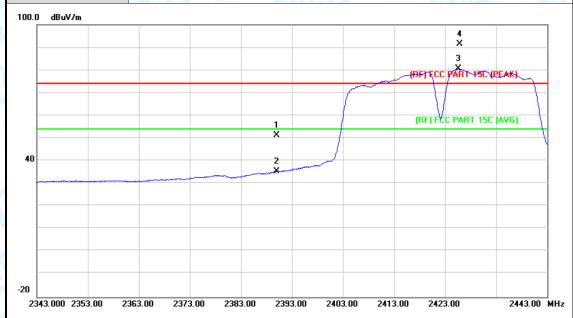


No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2460.400	83.26	1.06	84.32	Fundamental Frequency		AVG
2	Χ	2460.800	93.67	1.06	94.73	Fundamenta	al Frequency	peak
3		2483.500	55.67	1.17	56.84	74.00	-17.16	peak
4		2483.500	37.75	1.17	38.92	54.00	-15.08	AVG



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EUT:	WIFI OTG CARD READER	Model:	STC-WIFICR				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 Hz	AC 120V/60 Hz					
Ant. Pol.	Horizontal						
Test Mode:	TX N(HT40) Mode 2422MHz ANT 1+2						
Remark: N/A							



No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	50.47	0.77	51.24	74.00	-22.76	peak
2		2390.000	34.53	0.77	35.30	54.00	-18.70	AVG
3	*	2425.600	79.61	0.93	80.54	Fundament	al Frequency	AVG
4	Χ	2425.900	90.38	0.93	91.31	Fundament	al Frequency	peak



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EUT:	: WIFI OTG CARD READER Model:						
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 Hz	AC 120V/60 Hz					
Ant. Pol.	Vertical		TITLE OF				
Test Mode:	TX N(HT40) Mode 2422MHz ANT 1+2						
Remark:	N/A						

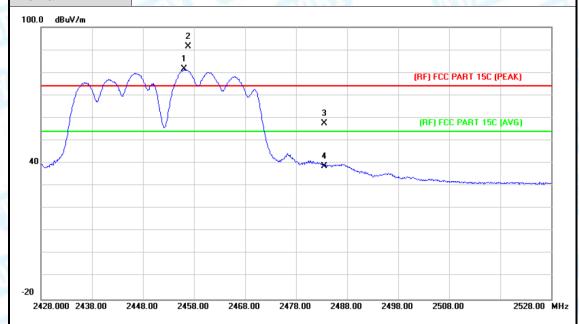


	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1			2390.000	49.85	0.77	50.62	74.00	-23.38	peak
2			2390.000	33.87	0.77	34.64	54.00	-19.36	AVG
3		X	2425.900	87.88	0.93	88.81	Fundamenta	l Frequency	peak
4		*	2426.500	79.36	0.93	80.29	Fundamenta	l Frequency	AVG



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EUT:	WIFI OTG CARD READER	Model:	STC-WIFICR
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage: AC 120V/60 Hz			111111111111111111111111111111111111111
Ant. Pol.	Horizontal		
Test Mode: TX N(HT40) Mode 2452MHz ANT 1+2			
Remark:	N/A		

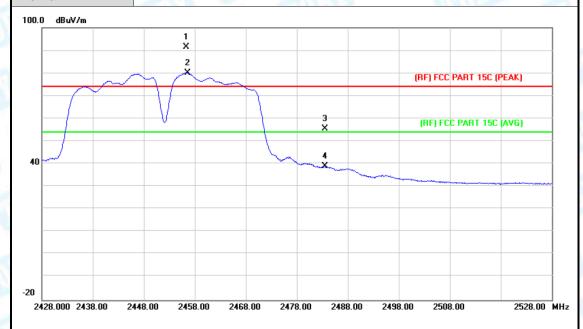


No	o. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2456.100	80.49	1.05	81.54	Fundamental	Frequency	AVG
2	Χ	2456.800	90.33	1.05	91.38	Fundamental	Frequency	peak
3		2483.500	56.31	1.17	57.48	74.00	-16.52	peak
4		2483.500	37.47	1.17	38.64	54.00	-15.36	AVG



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EUT:	WIFI OTG CARD READER	Model:	STC-WIFICR	
Temperature:	25 ℃	Relative Humidity:	55%	
Test Voltage:	AC 120V/60 Hz			
Ant. Pol.	Vertical	Vertical		
Test Mode:	TX N(HT40) Mode 2452MHz ANT 1+2			
Remark: N/A				



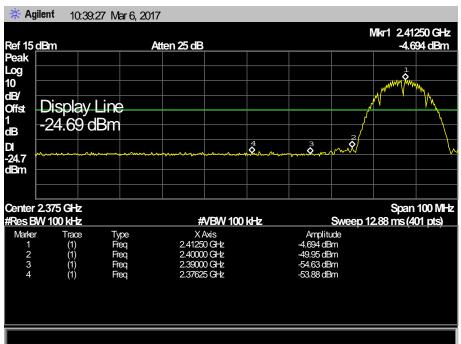
No	o. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2456.300	90.51	1.05	91.56	Fundament	al Frequency	peak
2	*	2456.600	78.99	1.05	80.04	Fundament	al Frequency	AVG
3		2483.500	54.16	1.17	55.33	74.00	-18.67	peak
4		2483.500	37.71	1.17	38.88	54.00	-15.12	AVG

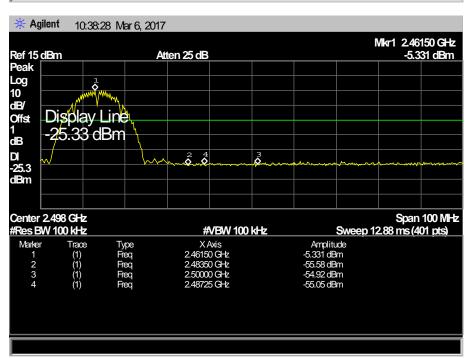


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(2) Conducted Test

EUT:	WIFI OTG CARD READER	Model:	STC-WIFICR		
Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	AC 120V/60 Hz				
Test Mode:	TX B Mode 2412MHz / TX B Mode 2462MHz ANT 1				
Remark:	The EUT is programed in continuously transmitting mode				

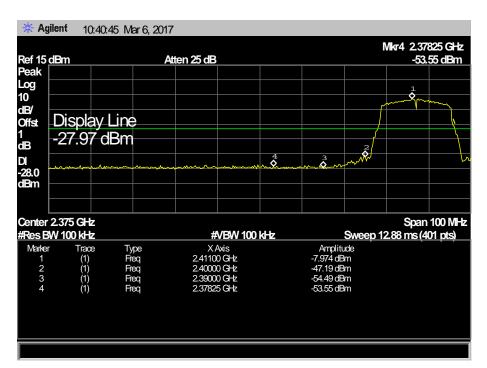


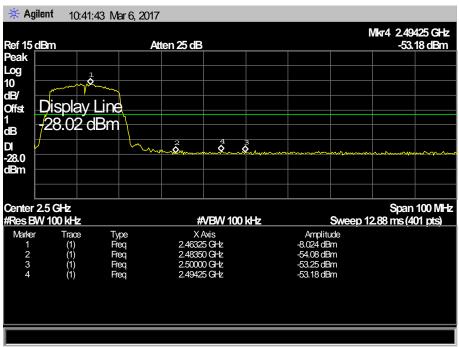




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EUT:	WIFI OTG CARD READER	Model:	STC-WIFICR		
Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	AC 120V/60 Hz	AC 120V/60 Hz			
Test Mode:	TX G Mode 2412MHz / TX G Mode 2462MHz ANT 1				
Remark:	The EUT is programed in continuously transmitting mode				

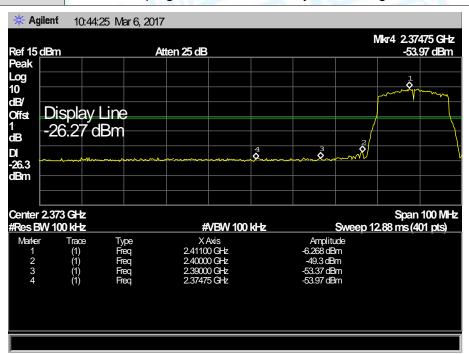


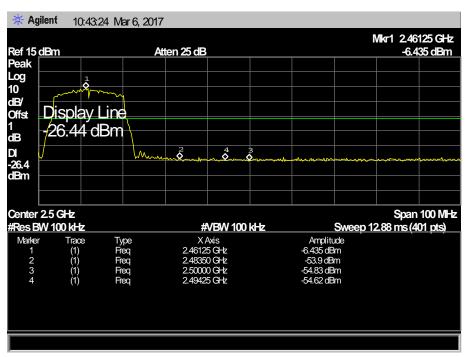




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EUT:	WIFI OTG CARD READER	Model:	STC-WIFICR		
Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	AC 120V/60 Hz				
Test Mode:	TX N(HT20) Mode 2412MHz / TX N(HT20) Mode 2462MHz ANT 1				
Remark: The EUT is programed in continuously transmitting mod			node		

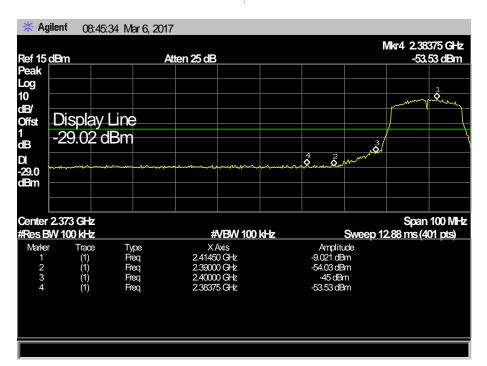


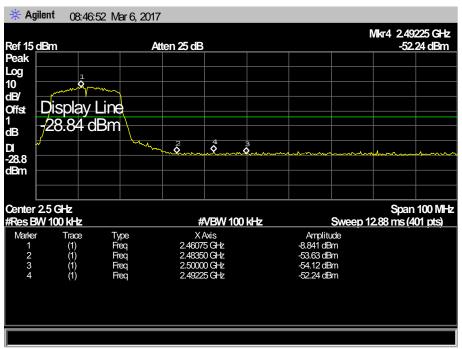




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EUT:	WIFI OTG CARD READER	Model:	STC-WIFICR		
Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	AC 120V/60 Hz				
Test Mode:	TX N(HT20) Mode 2412MHz / TX N(HT20) Mode 2462MHz ANT 2				
Remark:	The EUT is programed in continuously transmitting mode				

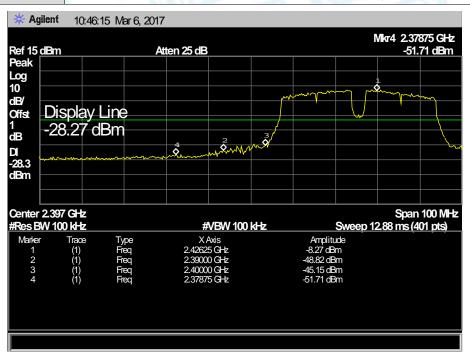


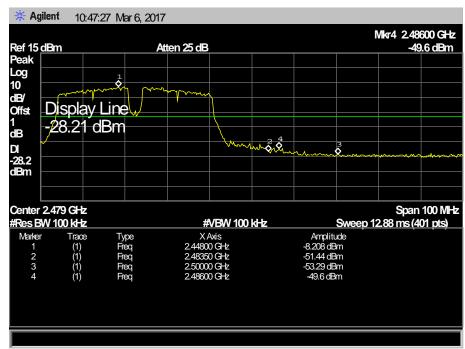




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EUT:	WIFI OTG CARD READER	Model:	STC-WIFICR		
Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	AC 120V/60 Hz				
Test Mode:	TX N(HT40) Mode 2422MHz / TX N(HT40) Mode 2452MHz ANT 1				
Remark:	The EUT is programed in conti	nuously transmitting mo	ode		

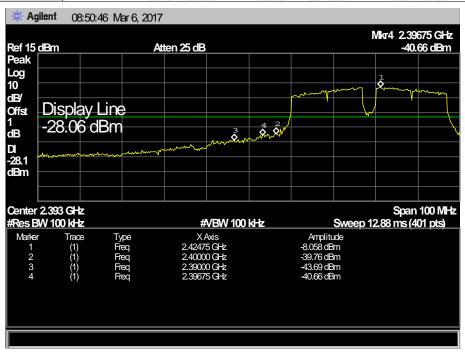


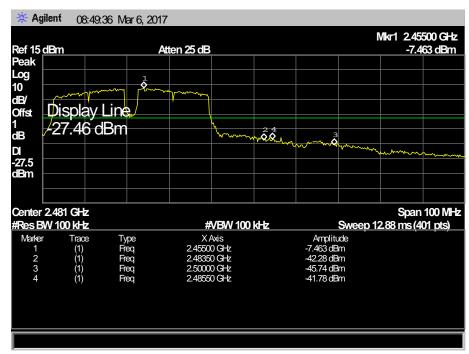




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EUT:		WIFI OTG CARD READER	Model:	STC-WIFICR		
Temperat	ure:	25 ℃	Relative Humidity:	55%		
Test Volta	ige:	AC 120V/60 Hz				
Test Mode	e:	TX N(HT40) Mode 2422MHz / TX N(HT40) Mode 2452MHz ANT 2				
Remark:		The EUT is programed in continuously transmitting mode				







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7. Bandwidth Test

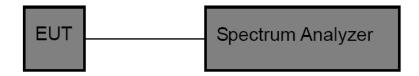
7.1 Test Standard and Limit

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	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, middle and high channel for the test.



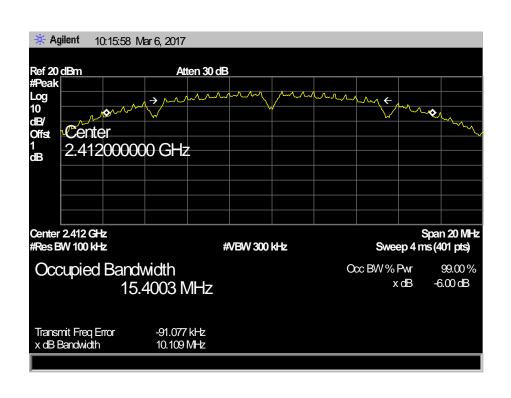
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7.5 Test Data

EUT:	WIFI OTG CARD READER	Model:	STC-WIFICR
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Test Mode:	TX 802.11B Mode ANT 1		
Channel frequence	cy 6dB Bandwidth	99% Bandwidth	Limit
(MHz)	(MHz)	(MHz)	(MHz)
2412	10.109	15.4003	
2437	10.023	15.3023	>=0.5
2462	10.082	15.2258	
· · · · · · · · · · · · · · · · · · ·			

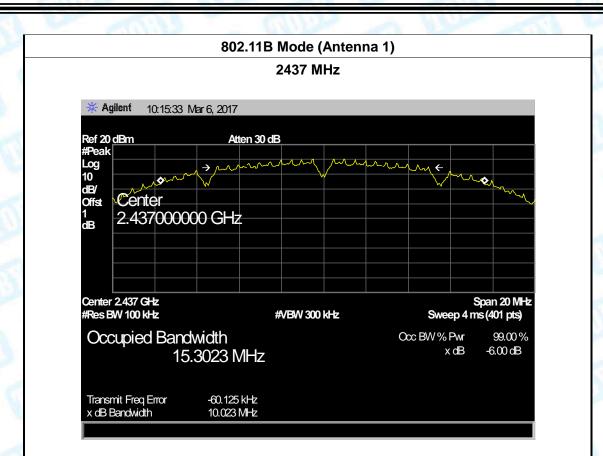
802.11B Mode (Antenna 1)

2412 MHz

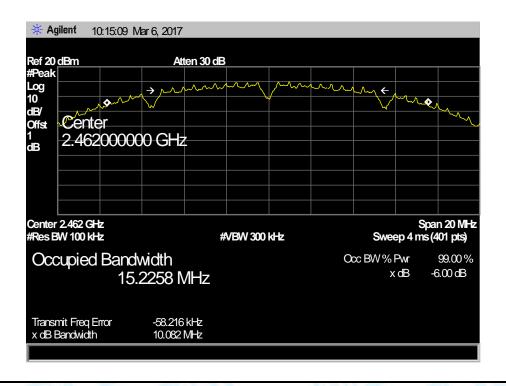




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802.11B Mode (Antenna 1)

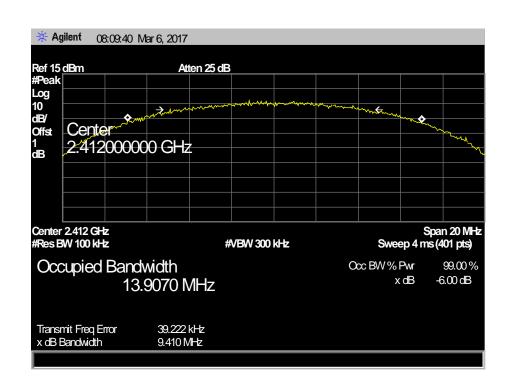




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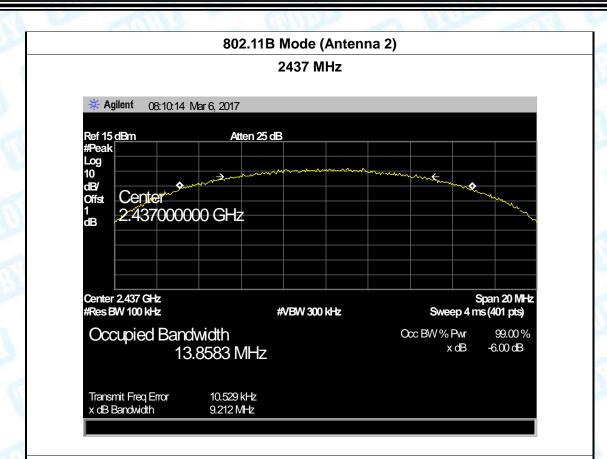
EUT:	WIFI O	TG CARD READER	Model:	STC-WIFICR
Temperature:	25 ℃	COLUMN TO	Relative Humidity:	55%
Test Voltage:	AC 120	AC 120V/60 Hz		
Test Mode:	TX 802	TX 802.11B Mode ANT 2		
Channel frequency 6dB Bandwidth		99% Bandwidth	Limit	
(MHz)		(MHz)	(MHz)	(MHz)
2412		9.410	13.9070	
2437		9.212	13.8583	>=0.5
2462		9.273	13.9270	

802.11B Mode (Antenna 2)

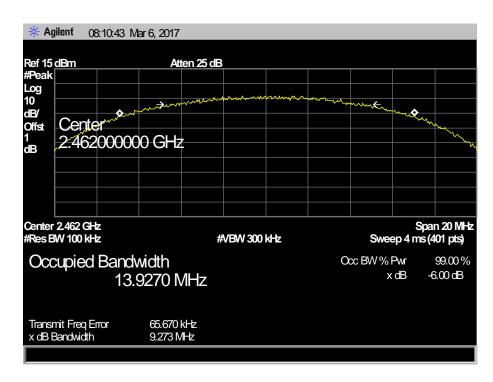




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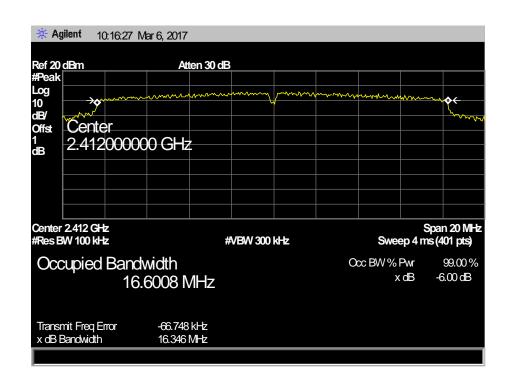
802.11B Mode (Antenna 2)





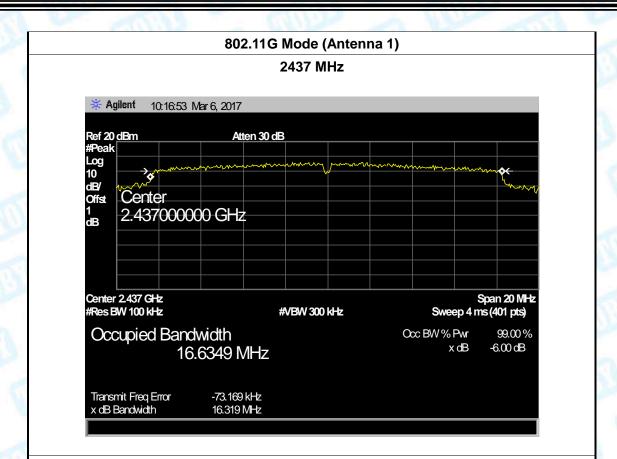
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EUT:	WIFI OTG CARD READER	Model:	STC-WIFICR	
Temperature:	25 ℃	Relative Humidity:	55%	
Test Voltage:	AC 120V/60 Hz		ALL DES	
Test Mode:	TX 802.11G Mode ANT 1			
Channel frequency 6dB Bandwidth		99% Bandwidth	Limit	
(MHz)	(MHz)	(MHz)	(MHz)	
2412	16.346	16.6008		
2437	16.319	16.6349	>=0.5	
2462 16.345		16.5382		
802.11G Mode (Antenna 1)				

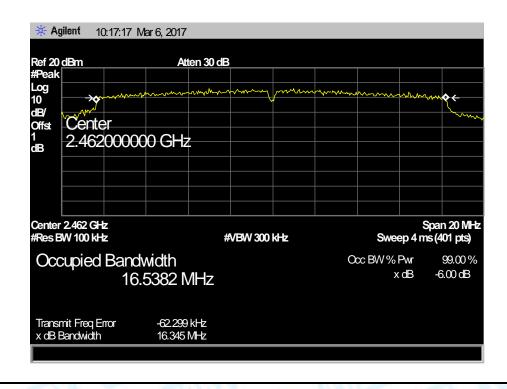




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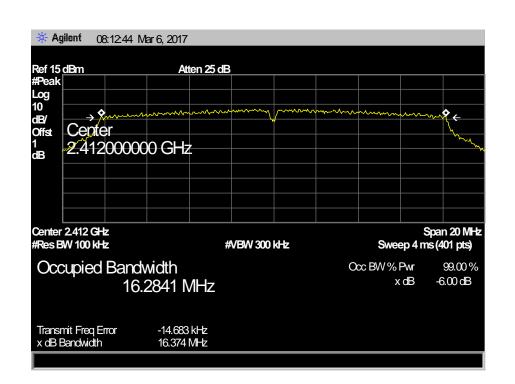
802.11G Mode (Antenna 1)





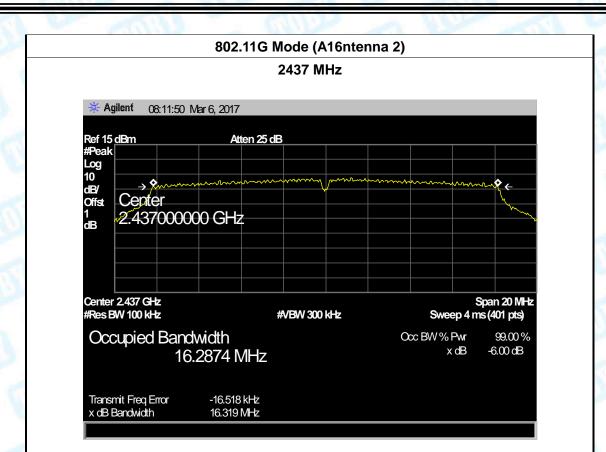
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EUT:	WIFI OTG CARD READER	Model:	STC-WIFICR	
Temperature:	25 ℃	Relative Humidity:	55%	
Test Voltage:	AC 120V/60 Hz			
Test Mode:	TX 802.11G Mode ANT 2			
Channel frequency 6dB Bandwidth 99% Bandwidth L		Limit		
(MHz)	(MHz)	(MHz)	(MHz)	
2412	16.374	16.2841		
2437	16.319	16.2874	>=0.5	
2462 16.333		16.2849		
	802.11G Mode (A	ntenna 2)	<u>'</u>	

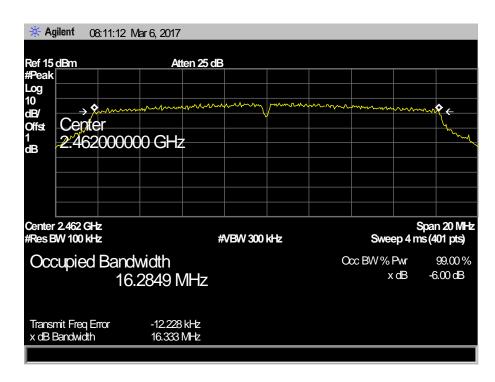




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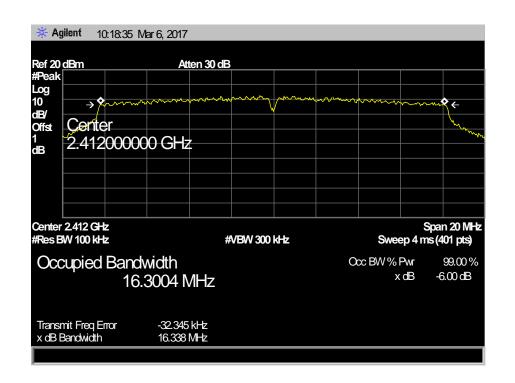
802.11G Mode (Antenna 2)





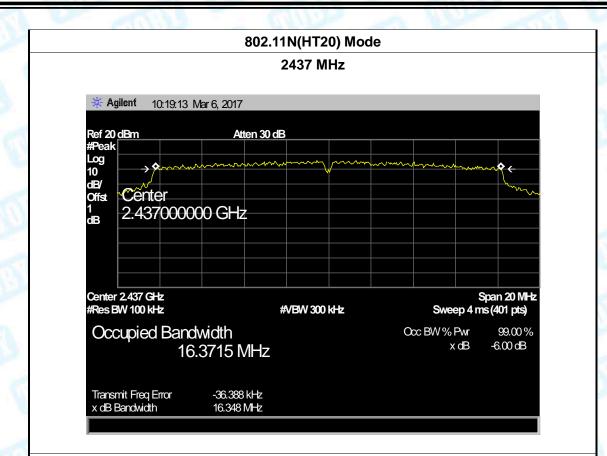
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WIFI OTG CARD READER	Model:	STC-WIFICR	
25 ℃	Relative Humidity:	55%	
AC 120V/60 Hz			
TX 802.11N(HT20) Mode ANT 1			
uency 6dB Bandwidth 99% Bandwidth Limit			
(MHz)	(MHz)	(MHz)	
16.338	16.3004		
16.348	16.3715	>=0.5	
2462 16.341			
802.11N(HT20) Mode	(Antenna 1)		
	25 °C AC 120V/60 Hz TX 802.11N(HT20) Mode AN Cy 6dB Bandwidth (MHz) 16.338 16.348 16.341	25 °C Relative Humidity: AC 120V/60 Hz TX 802.11N(HT20) Mode ANT 1 cy 6dB Bandwidth (MHz) (MHz) 16.338 16.3004 16.348 16.3715	

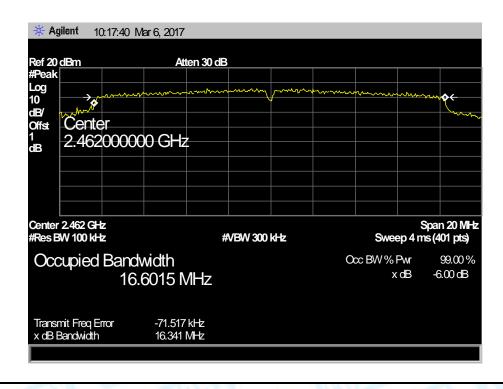




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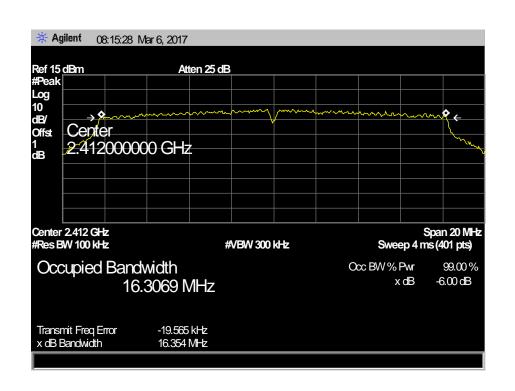
802.11N(HT20) Mode





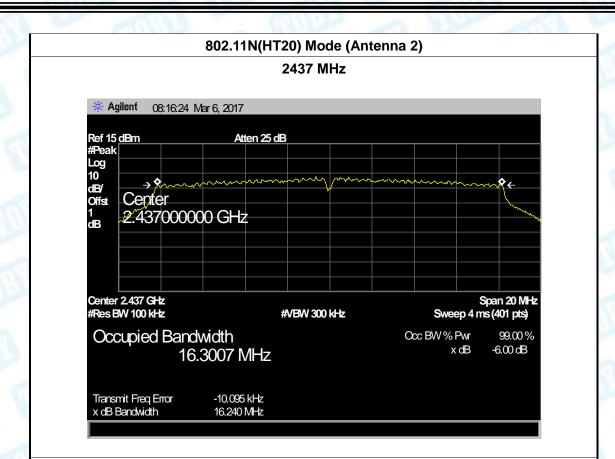
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EUT:	WIFI OTG CARD READER	Model:	STC-WIFICR
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		MID OF
Test Mode:	TX 802.11N(HT20) Mode ANT 2		
Channel frequence	hannel frequency 6dB Bandwidth 99% Bandwidth Lim		
(MHz)	(MHz)	(MHz)	(MHz)
2412	16.354	16.3069	
2437	16.240	16.3007	>=0.5
2462	16.375	16.2906	
802.11N(HT20) Mode (Antenna 2)			

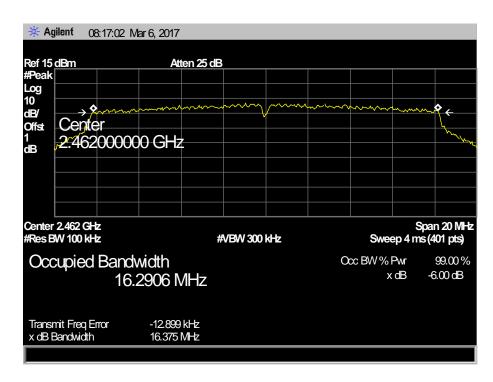




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802.11N(HT20) Mode (Antenna 2)

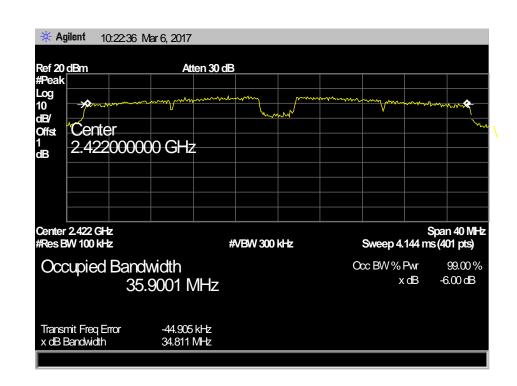




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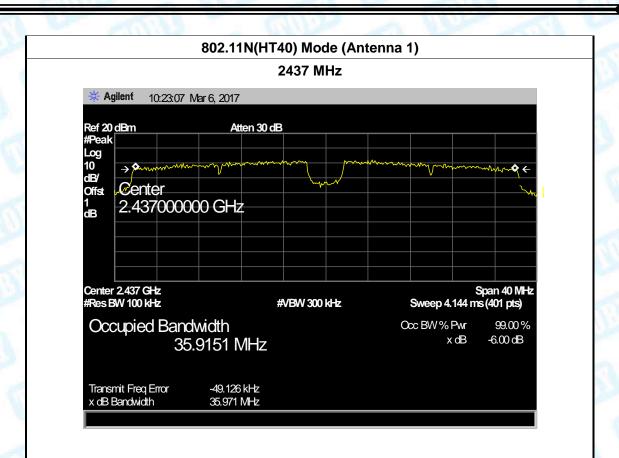
EUT:	WIFI OTG CARD READER	Model:	STC-WIFICR	
Temperature:	25 ℃	Relative Humidity:	55%	
Test Voltage:	AC 120V/60 Hz			
Test Mode:	TX 802.11N(HT40) Mode ANT 1			
Channel frequency 6dB Bandwidth		99% Bandwidth	Limit	
(MHz)	(MHz)	(MHz)	(MHz)	
2422	34.811	35.9001		
2437	35.971	35.9151	>=0.5	
2452	35.443	35.9133		

802.11N(HT40) Mode (Antenna 1)

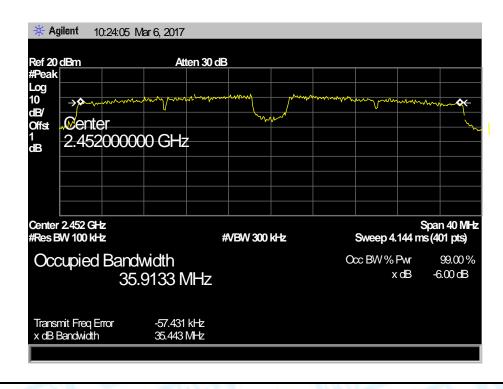




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802.11N(HT40) Mode (Antenna 1)

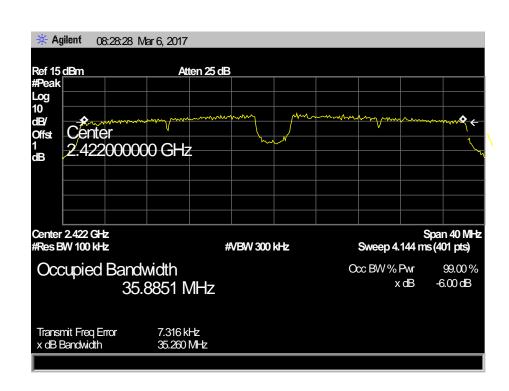




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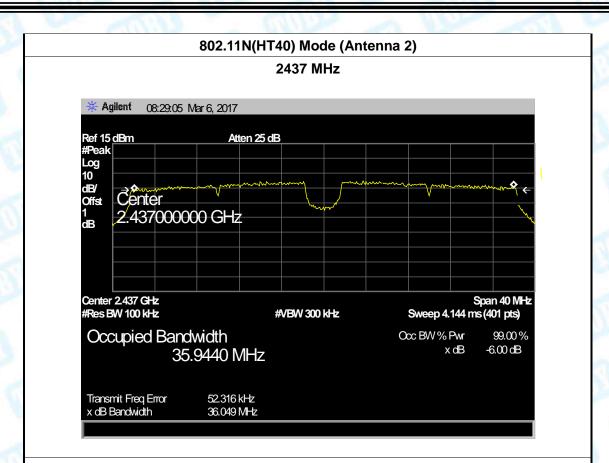
EUT:	WIFI OTG CARD REAL	DER Model:	STC-WIFICR		
Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	AC 120V/60 Hz	AC 120V/60 Hz			
Test Mode:	TX 802.11N(HT40) Mod	TX 802.11N(HT40) Mode ANT 2			
Channel frequency 6dB Bandwidth		99% Bandwidth	Limit		
(MHz)	(MHz)	(MHz)	(MHz)		
2422	35.260	35.8851			
2437	36.049	35.9440	>=0.5		
2452	36.047	35.8955			

802.11N(HT20) Mode (Antenna 2)

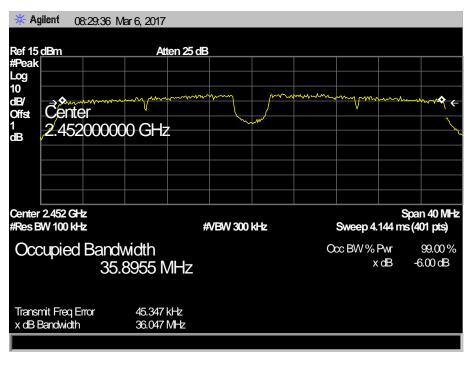




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802.11N(HT40) Mode (Antenna 2)





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8. Peak Output Power Test

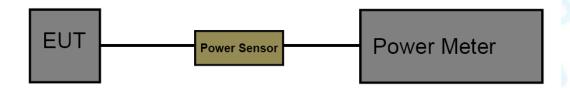
8.1 Test Standard and Limit

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 DTS Meas Guidance v03r05 and KDB 662911 D01 Multiple Transmitter Output v02r01.

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.



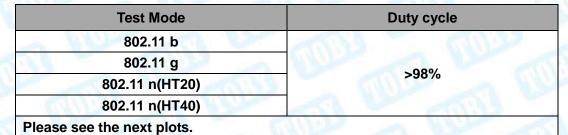
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8.5 Test Data

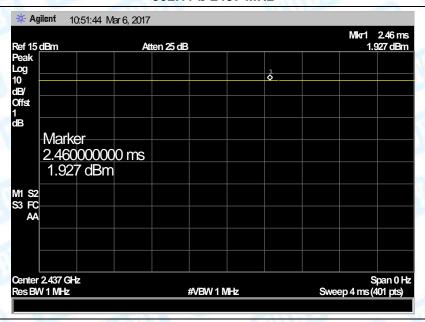
CALL DO	- N.				
		Conduct	ed Power		
		802.11k	Power		
Channel	Fraguency	Con	ducted Power (dBm)	Max. Limit
Channel	Frequency	Ant. 1	Ant. 2	Total	(dBm)
1	2412 MHz	9.26	9.10		
6	2437 MHz	9.34	9.01		30
11	2462 MHz	9.21	9.22		
		802.11	Power		
01	F	Con	ducted Power (dBm)	Max. Limit
Channel	Frequency	Ant. 1	Ant. 2	Total	(dBm)
1	2412 MHz	9.32	8.87		
6	2437 MHz	9.16	8.99		30
11	2462 MHz	9.23	8.98		
		802.11n(H	Γ20) Power		
01	F	Con	ducted Power (dBm)	Max. Limit
Channel	Frequency	Ant. 1	Ant. 2	Total	(dBm)
1	2412 MHz	6.46	6.16	9.32	
6	2437 MHz	6.45	6.25	9.36	30
11	2462 MHz	6.49	6.03	9.28	
		802.11n(H	Γ40) Power		
Channel.	F	Conducted Power (dBm)		Max. Limit	
Channel	Frequency	Ant. 1	Ant. 2	Total	(dBm)
3	2422 MHz	6.16	5.95	9.07	
6	2437 MHz	6.06	6.09	9.09	30
9	2452 MHz	6.21	6.26	9.25	
	i .	i	i .	i .	<u>i </u>



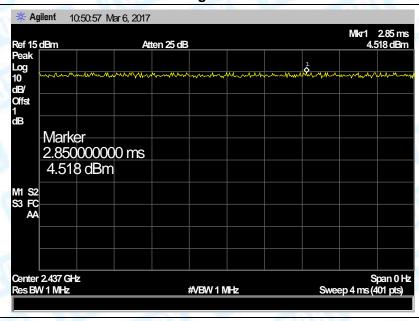
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802.11 b 2437 MHz

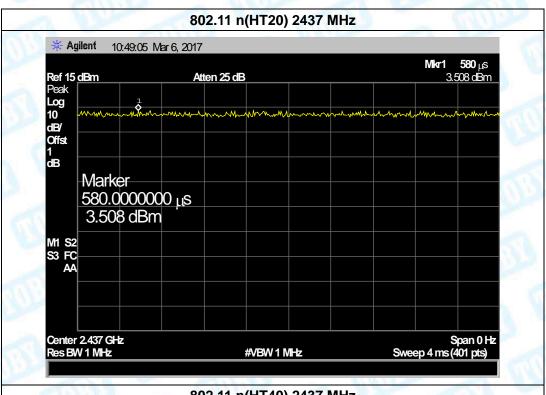


802.11 g 2437 MHz

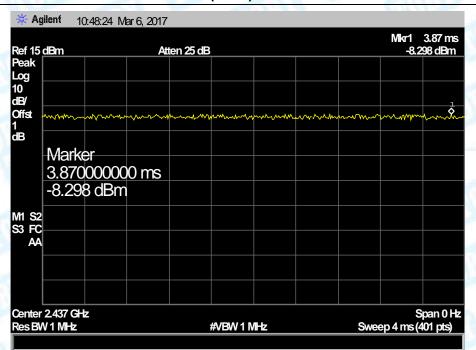




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9. Power Spectral Density Test

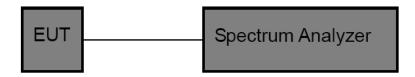
9.1 Test Standard and Limit

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	8dBm(in any 3 kHz)	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 DTS Meas Guidance v03r05 and KDB 662911 D01 Multiple Transmitter Output v02r01.

- (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, middle and high channel for the test.



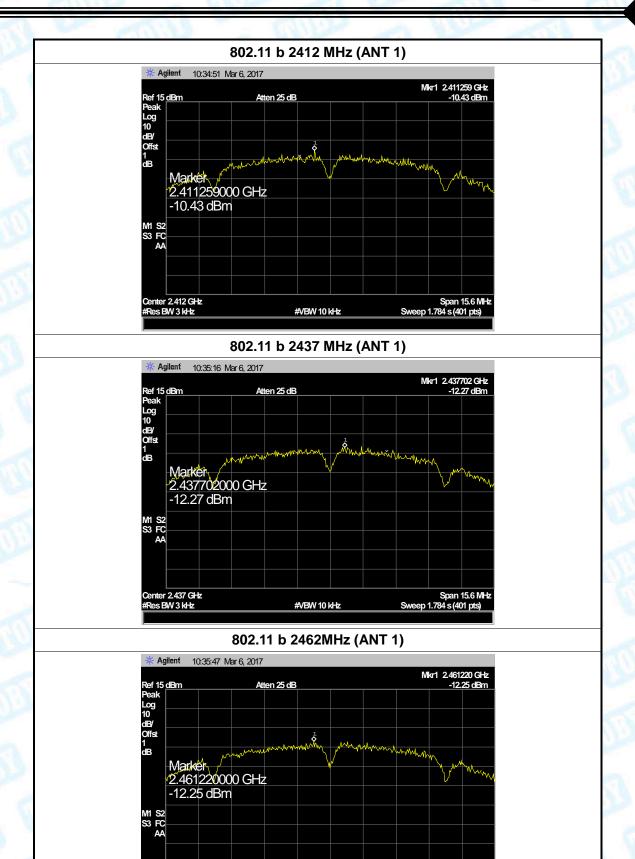
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9.5 Test Data

11/11/20					- 6411
	802.11b Mode				
Channal	Channel Frequency		Conducted Power (dBm/3KHz)		
Chamilei	Trequency	Ant. 1	Ant. 2	Total	(dBm/3KHz)
1	2412 MHz	-10.43	-15.90		
6	2437 MHz	-12.27	-15.09		8
11	2462 MHz	-12.25	-15.60		
		802.11	g Mode		-
Channal	Francis	Conduc	ted Power (dBr	n/3KHz)	Max. Limit
Channel	Frequency	Ant. 1	Ant. 2	Total	(dBm/3KHz)
1	2412 MHz	-14.98	-21.84		
6	2437 MHz	-14.44	-22.13		8
11	2462 MHz	-16.11	-22.60		
	802.11n(HT20) Mode				
Channel	Fraguency	Conducted Power (dBm/3KHz)		Max. Limit	
Channel	Frequency	Ant. 1	Ant. 2	Total	(dBm/3KHz)
1	2412 MHz	-18.10	-20.59	-16.16	
6	2437 MHz	-16.69	-21.22	-15.38	8
11	2462 MHz	-17.93	-22.45	-16.62	
		802.11n(H	T40) Mode		
Channel	Eroguenov	Conduc	ted Power (dBr	n/3KHz)	Max. Limit
Channel	Frequency	Ant. 1	Ant. 2	Total	(dBm/3KHz)
3	2422 MHz	-16.63	-23.45	-15.81	
6	2437 MHz	-15.77	-22.20	-14.88	8
9	2452 MHz	-17.26	-23.83	-16.40	
Test plots ple	ase refer to belo	ow pages:			



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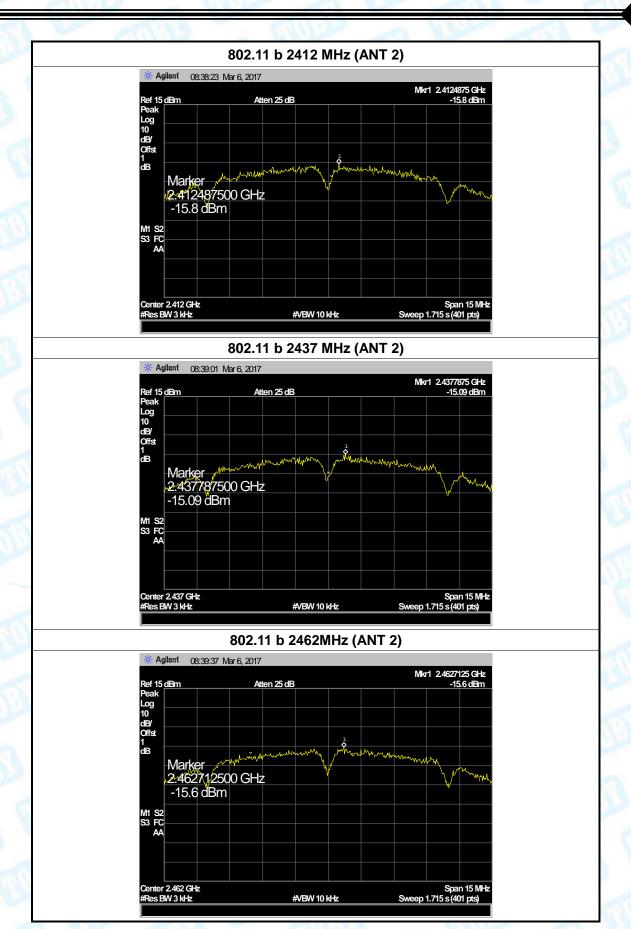


#VBW 10 kHz

Center 2.462 GHz #Res BW 3 kHz Span 15.6 MHz Sweep 1.784 s (401 pts)

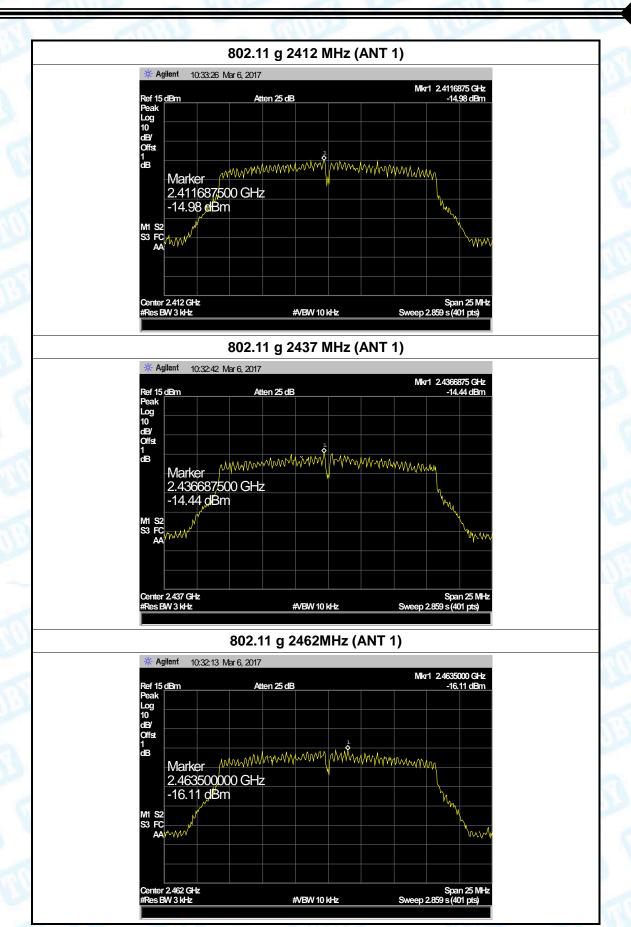


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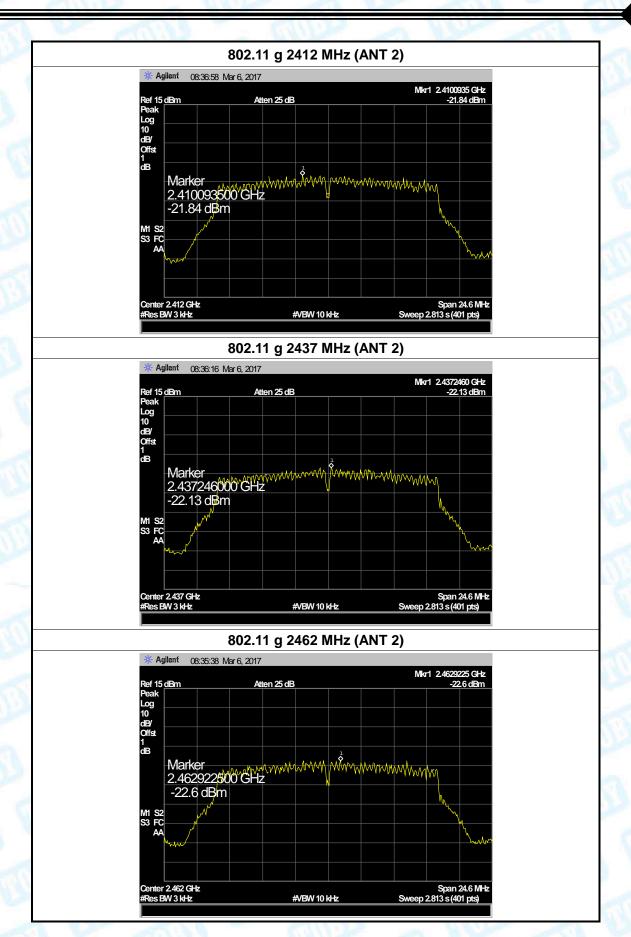


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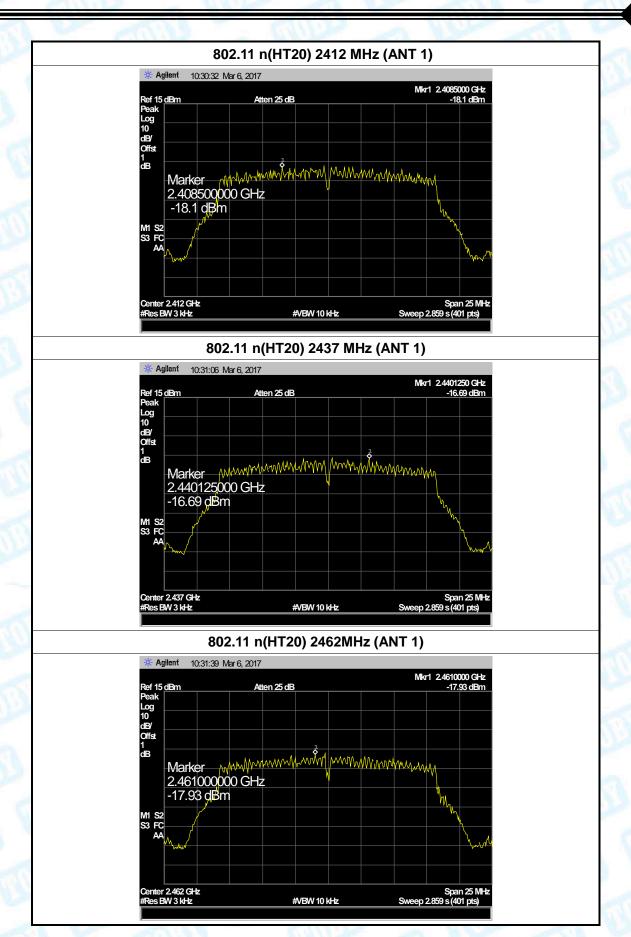


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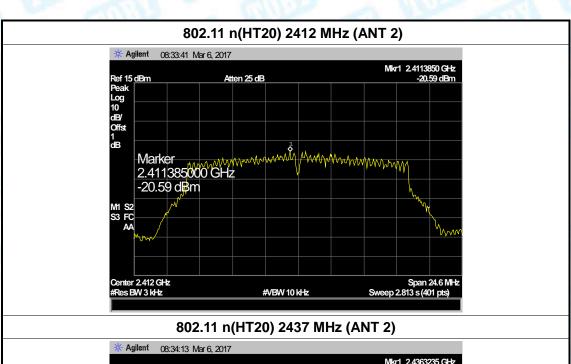


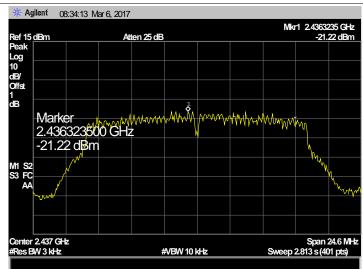
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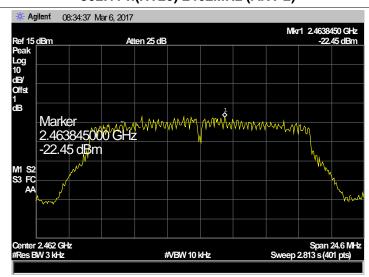


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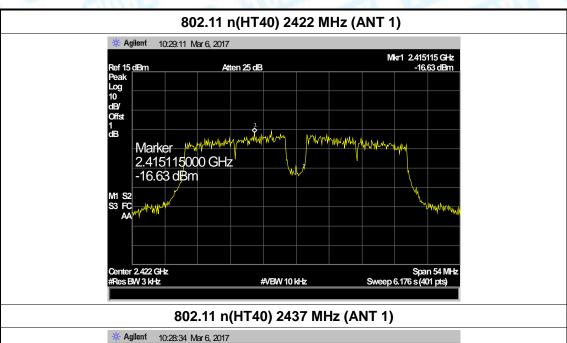


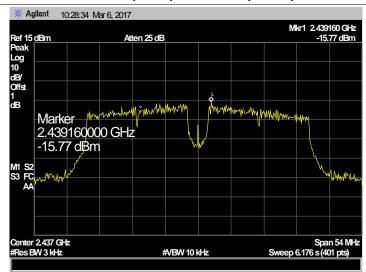
802.11 n(HT20) 2462MHz (ANT 2)

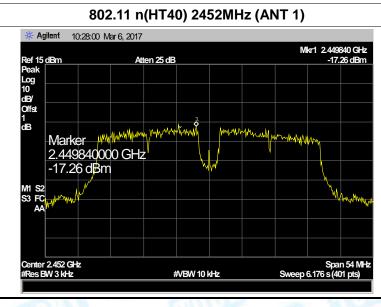




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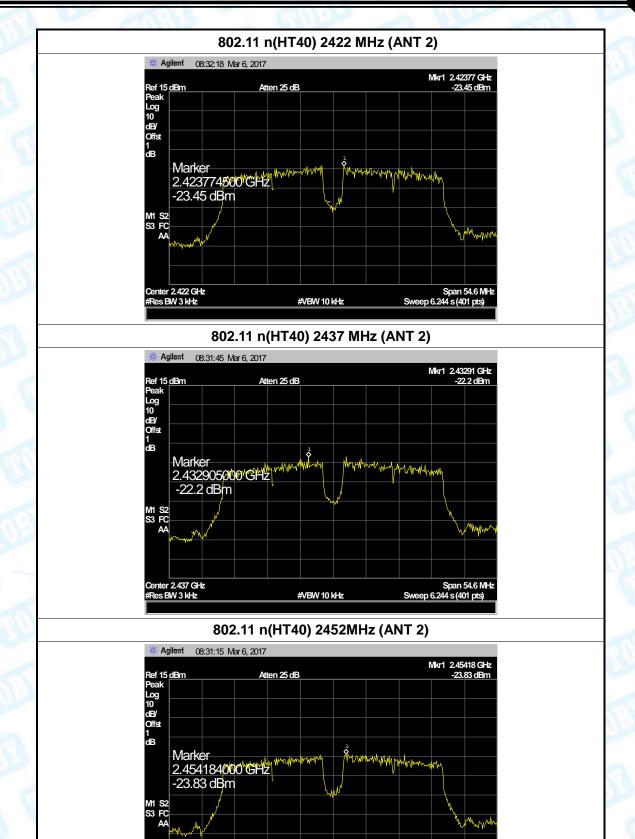








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#VBW 10 kHz

Center 2.452 GHz #Res BW 3 kHz Span 54.6 MHz Sweep 6.244 s (401 pts)



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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 2 dBi, 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 a Ceramic Antenna. It complies with the standard requirement.

	Antenna Type
JULY D	▼ Permanent attached antenna
	□ Unique connector antenna
WORLD IN	□ Professional installation antenna

----END OF REPORT----