

Shenzhen Toby Technology Co., Ltd.

Report No.: TB-FCC151147

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FCC Radio Test Report FCC ID: 2AKMD-S921

Original Grant

Report No. : TB-FCC151147

Applicant: ShenZhen Megastek Electronics Co. Ltd.

Equipment Under Test (EUT)

EUT Name : Home base unit

Model No. : S921

Series No. : MT200-HBU, MT200XF

Brand Name : N/A

Receipt Date : 2016-12-24

Test Date : 2016-12-25 to 2017-03-13

Issue Date : 2017-03-14

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 FCC and IC requirements

Test/Witness Engineer :

Approved&

Authorized

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

TB-RF-074-1.0



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1. General Information about EUT

1.1 Client Information

Applicant: ShenZhen Megastek Electronics Co. Ltd.

Address : RmB1111, Niulangian Building, Minzhi Road, Longhua Town, Baoan

District, Shenzhen, China

Manufacturer : Megastek Technologies Electronics (ShenZhen) Co. Ltd .

Address : Qiangcheng Technologis Park, Xinglang Road, Xingguang village,

HuangjiangTown, DongguanCity, China

1.2 General Description of EUT (Equipment Under Test)

EUT Name	1	Home base unit	COLUMN TO THE PARTY OF THE PART		
Models No.		S921, MT200-HBU, M	T200XF		
Model Difference	1	All these models are identical in the same PCB, layout and elect circuit, the only difference is model name for commercial.			
de Lines	T.	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):9 channels see note(3)		
	6	RF Output Power:	802.11b: 19.78 dBm		
			802.11g: 18.66 dBm		
Duaduat			802.11n (HT20): 17.81 dBm		
Product		N. S. C.	802.11n (HT40): 17.46 dBm		
Description		Antenna Gain:	3 dBi External Antenna		
		Modulation Type:	802.11b: DSSS(CCK, DQPSK, DBPSK)		
			802.11g/n:OFDM(BPSK,QPSK,16QAM,		
			64QAM)		
		Bit Rate of	802.11b:11/5.5/2/1 Mbps		
		Transmitter:	802.11g:54/48/36/24/18/12/9/6 Mbps		
	16		802.11n:up to 150Mbps		
Power Supply	:	AC power by AC cable			
		DC power by Li-ion battery.			
Power Rating	:	AC 100-240V, 50/60Hz			
		DC 3.7V by 100mAh L	i-ion battery.		
Connecting		Please refer to the User's Manual			
I/O Port(S)					

Note:

- (1) This Test Report is FCC Part 15.247 for 802.11b/g/n, the test procedure follows the FCC KDB 558074 D01 DTS Meas Guidance v03r05.
- (2) For a more detailed features description, please refer to the manufacturer's specifications or



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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) The Antenna information about the equipment is provided by the applicant.
- 1.3 Block Diagram Showing the Configuration of System Tested

Charging with TX Mode

		The Control of the Co
	EUT	

1.4 Description of Support Units

The EUT has been test as an independent unit.



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1.5 Description of Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned follow was evaluated respectively.

For Conducted Test					
Final Test Mode Description					
Mode 1	Charging with 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 5	TX Mode N(HT40) Mode Channel 03/06/09				

Note:

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

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

802.11b Mode: CCK (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 fixed 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	4100	QATool_Dbg.exe	
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
Channel	CH 03	CH 06	CH 09
IEEE 802.11n (HT40)	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:	WY DESCRIPTION OF THE PROPERTY
Conducted Emission	9kHz~150kHz	±3.42 dB
	150kHz to 30MHz	±3.42 dB
Dedicted Engineer	Level Accuracy:	. 4 CO dD
Radiated Emission	9kHz to 30 MHz	±4.60 dB
Dedicted Emission	Level Accuracy:	. 4 40 dD
Radiated Emission	30MHz to 1000 MHz	±4.40 dB
Radiated Emission	Level Accuracy:	±4.20 dB
Radiated Emission	Above 1000MHz	±4.20 UB



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1.8 Test Facility

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

CNAS (L5813)

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

FCC List No.: (811562)

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

IC Registration No.: (11950A-1)

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



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2. Test Summary

	FCC Part	t 15 Subpart C(15.247)/ RSS 247	Issue 1	
Standa	rd Section	Test Item	lucal areas a red	Remark
FCC	IC	rest item	Judgment	
15.203	1	Antenna Requirement	PASS	N/A
15.207	RSS-GEN 7.2.4	Conducted Emission	PASS	N/A
15.205	RSS-GEN 7.2.2	Restricted Bands	PASS	N/A
15.247(a)(2)	RSS 247 5.2 (1)	6dB Bandwidth	PASS	N/A
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)	RSS 247 5.5	Band Edge	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, 201
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Mar. 20, 2016	Mar. 19, 201
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar. 19, 2016	Mar. 18, 201
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar. 19, 2016	Mar. 18, 201
Loop Antenna	Laplace instrument	RF300	0701	Mar. 19, 2016	Mar. 18, 201
Pre-amplifier	Sonoma	310N	185903	Mar. 20, 2016	Mar. 19, 201
Pre-amplifier	HP	8447B	3008A00849	Mar. 26, 2016	Mar. 25, 201
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar. 26, 2016	Mar. 25, 201
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

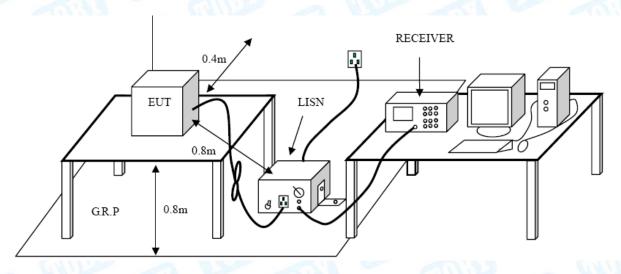
Conducted Emission Test Limit

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

Notes:

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

4.2 Test Setup



4.3 Test Procedure

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

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



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

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

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

4.4 EUT Operating Mode

Please refer to the description of test mode.

4.5 Test Data

Please see the next page.



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1	10	DV	ì
L	U	PI	
	No. of the last	Marie Marie	

EUT:	Home	base unit	2 117	Model Nar	ne:	S921	
Temperature:	25 ℃	Call!		Relative H	lumidity:	55%	FILL
Test Voltage:	AC 120	OV/60Hz			Time.	133	
Terminal:	Line		A KILL		100		MAIL
Test Mode:	Chargi	ng with TX I	3 Mode		2	all	1
Remark:	Only w	orse case is	reported			13	
90.0 dBuV							
						QP: AVG:	
×							
The state of the s	to the line		, ¥ ₁₁₁₁				
40	Charles A		L. J. d. Janes Hilly				
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		'	ראקן יקואי	the a photography	Mary Mary Mary	and property light	, WMpeal
						•	AVG
							- AVG
-10							
0.150	0.5		(MHz)	5			30.000
		Reading	Correct	Measure-		_	
No. Mk.	Freq.	Level	Factor	ment	Limit	Over	
	MHz	dBu∀	dB	dBuV	dBuV	dB	Detector
1 0.	1620	38.63	9.94	48.57	65.36 -	-16.79	QP
2 0.	1620	20.08	9.94	30.02	55.36 -	-25.34	AVG
3 0.	2819	35.46	10.02	45.48	60.76 -	-15.28	QP
4 0.	.2819	17.83	10.02	27.85	50.76 -	-22.91	AVG
5 0.	3420	34.28	10.02	44.30	59.15 -	-14.85	QP
							AVG
6 0.	3420	15.97	10.02	25.99	49.15 -	-23.16	\neg
	.3420	15.97 32.54	10.02 10.09	25.99 42.63	49.15 - 56.00 -		QP
7 0.	.6460	32.54	10.09	42.63	56.00 -	-13.37	QP
7 0. 8 0.	.6460 .6460	32.54 18.76	10.09 10.09	42.63 28.85	56.00 - 46.00 -	-13.37 -17.15	QP AVG
7 0. 8 0. 9 1.	6460 6460 0859	32.54 18.76 30.11	10.09 10.09 10.06	42.63 28.85 40.17	56.00 - 46.00 - 56.00 -	-13.37 -17.15 -15.83	QP AVG QP
7 0.8 0.9 1.10 1.10 1.10 1.10 1.10 1.10 1.10	6460 6460 0859 0859	32.54 18.76 30.11 19.19	10.09 10.09 10.06 10.06	42.63 28.85 40.17 29.25	56.00 - 46.00 - 56.00 -	-13.37 -17.15 -15.83 -16.75	QP AVG QP AVG
7 0.8 0.9 1.1 10 1.1 11 * 2.1	6460 6460 0859	32.54 18.76 30.11	10.09 10.09 10.06	42.63 28.85 40.17	56.00 - 46.00 - 56.00 -	-13.37 -17.15 -15.83 -16.75 -12.99	QP AVG



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EUT:	Home	base unit		Model Name	:	S921	ATT IN	
Temperature	: 25 ℃		3 T	Relative Hur	midity:	55%	RIV	
Test Voltage:	AC 12	20V/60Hz		1	Cal	11:32		
Terminal:	Neutra	Neutral						
Test Mode:	Charg	Charging with TX B Mode					111	
Remark:	Only v	worse case is re	eported	orted				
90.0 dBuV								
						QP: AVG:	_	
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wyww	- manufand		4/10-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-	he followed the following the	was the state of t	uphlagsharandhadaran	hand AVG	
-10 0.150	- manufand	AND THE PROPERTY OF THE PROPER	(MHz)	Who have a few for the few for	Wendleping before	en de la constante de la const	L-10/19/1	
-10	Mymmy	Myserphyserver maybe about March	(MHz) Correct Factor	and he appeared to the second	Limit	Over	haldarinduly AVG	
-10 0.150	0.5	Manufacture (Manufacture Manufacture Manuf	Correct	Measure-	A STATE OF THE STA	Over	haldarinduly AVG	
-10 0.150	0.5	Reading (Correct Factor	Measure- ment	Limit		30.000	
-10 0.150 No. Mk.	0.5 Freq. MHz	Reading Level dBuV 34.76	Correct Factor	Measure- ment	Limit dBuV 61.49	dB	30.000 Detector	
No. Mk.	0.5 Freq. MHz 0.2580	Reading Level dBuV 34.76 15.54	Correct Factor dB	Measure- ment dBuV 44.86	Limit dBuV 61.49 51.49	dB -16.63	30.000 Detector QP	
No. Mk.	0.5 Freq. MHz 0.2580 0.2580	Reading Level dBuV 34.76 15.54 30.26	Correct Factor dB 10.10	Measure- ment dBuV 44.86 25.64	Limit dBuV 61.49 51.49 56.00	dB -16.63 -25.85	30.000 Detector QP AVG	

10.03

10.15

10.15

10.13

10.13

10.06

10.06

26.41

42.56

26.18

39.94

23.22

40.53

26.44

Emission Level= Read Level+ Correct Factor

0.7220

1.1019

1.1019

1.2700

1.2700

2.1099

2.1099

6 7

8

9

10

11 12 16.38

32.41

16.03

29.81

13.09

30.47

16.38

AVG

AVG

QΡ

AVG

QΡ

AVG

QP

46.00 -19.59

56.00 -13.44

46.00 -19.82

56.00 -16.06

46.00 -22.78

56.00 -15.47

46.00 -19.56



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UT:	Home	base unit	2 183	Model Name	e :	S921	
emperature	: 25 ℃	Call!		Relative Hu	midity:	55%	Alle
est Voltage:	AC 24	0V/60Hz		1	(Fall	133	
erminal:	Line		A Sec.		10	610	AW
est Mode:	Chargi	ng with TX E	3 Mode	CHILD		a W	
Remark:	Only w	orse case is	reported	1		33	
90.0 dBuV							
						QP: AVG:	
M X	×	× ,* , , , , ×	×				
40	war why proof My	Anch of Lakety of the sale	Jan Hart	. Julia			
	. 14		AM AM	Aporto Alta Maria de la capación de	المراوا المناطقة الم	Maria de la compansión de	
1 Marin	approximation of the H	AND A HAMPANAMAN AND AND AND AND AND AND AND AND AND A	HANDER HOLDER	Lithian A Jan	The state of the s		MANA.
		1/1/1	` ₩	Min de aby	MANNEY	l	pe.
						MANA MANANAN	Married and
							W. WILLIAM
10							
0.150	0.5		(MHz)	5			30.000
NI- MI-		Reading	Correct	Measure-	Limit	Over	
No. Mk.	Freq.	Level	Factor	ment			
	MHz	dBu∨	dB	dBu∨	dBu∀	dB	Detector
1	0.2740	35.70	10.02	45.72	60.99	-15.27	QP
2	0.2740	21.95	10.02	31.97	50.99	-19.02	AVG
3	0.5540	35.27	10.05	45.32	56.00	-10.68	QP
4 *	0.5540	28.72	10.05	38.77	46.00	-7.23	AVG
5	0.6100	33.33	10.07	43.40		-12.60	QP
6	0.6100	18.12	10.07	28.19		-17.81	AVG
7	0.7580	32.19	10.11	42.30		-13.70	QP
8	0.7580	19.29	10.11	29.40		-16.60	AVG
9	1.2579	27.62	10.06	37.68	56.00	-18.32	QP
10	1.2579	13.64	10.06	23.70	46.00	-22.30	AVG
11	2.1780	27.62	10.05	37.67	56.00	-18.33	QP
12	2.1780	20.23	10.05	30.28		-15.72	AVG
		20.20		00.20	10.00	10.12	, tv C



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EUT:	Home	base unit	a WY	Model Na	me :	S921	THE PARTY OF	
Temperature:	25 ℃			Relative H	lumidity:	55%	Alle	
Test Voltage:	AC 240)V/60Hz			(all	133		
Terminal:	Neutra		ARILE		10			
Test Mode:	0 0							
Remark:	Only w	orse case is	reported	C. San		3		
90.0 dBuV						O.D.		
						QP: AVG:		
manho	who was I do	,	* * * * * * * * * * * * * * * * * * *					
40		. de andVanament	New York Inches	N J L. L. L.				
Tax. A. MANAMA		or a la la managara	 		, madd chrifelydd yn gr	. براسلا		
NA/VA\ MANAMA MA	~1/4~C~~\+~~\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	HIM AND	harayanah /	Why or home or	a A state do lin with	Mary Mary	Markhay Malley	
		"	AL.	Alm Arv	morning	Vm.	peak	
						a Alverter	AVG	
10								
-10 0.150	0.5		(MHz)	5			30.000	
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	
1	0.2540	33.77	10.10	43.87	61.62 -		QP	
2	0.2540	17.71	10.10	27.81	51.62 -		AVG	
3	0.5460	29.35	10.02	39.37	56.00 -		QP	
4	0.5460	17.46	10.02	27.48	46.00 -		AVG	
5 *	0.6940	31.71	10.02	41.73	56.00 -		QP	
6	0.6940	15.13	10.02	25.15	46.00 -		AVG	
	1.0300							
7		31.12	10.16	41.28	56.00 -		QP	
8	1.0300	16.32	10.16	26.48	46.00 -		AVG	
9	1.3380	29.63	10.13	39.76	56.00 -		QP	
10	1.3380	12.94	10.13	23.07	46.00 -		AVG	
11	2.0900	29.43	10.06	39.49	56.00 -		QP	
12	2.0900	17.08	10.06	27.14	46.00 -	18.86	AVG	
	<u> </u>		<u> </u>	<u> </u>				
Emission Lev	/el= Read I	_evel+ Corr	ect Factor					



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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		

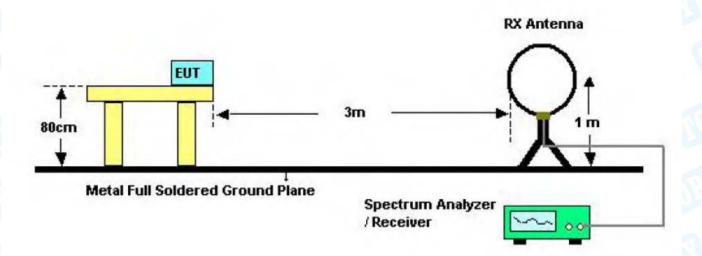
Note:

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

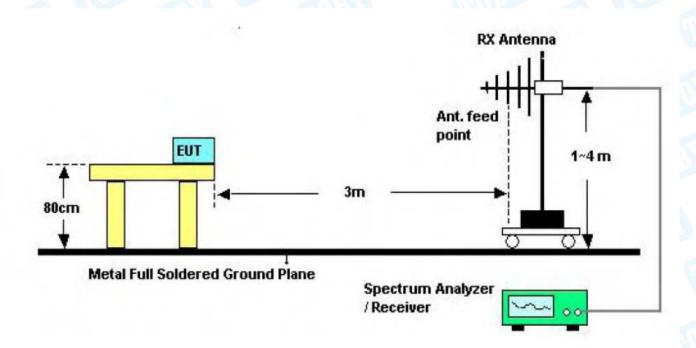


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5.2 Test Setup



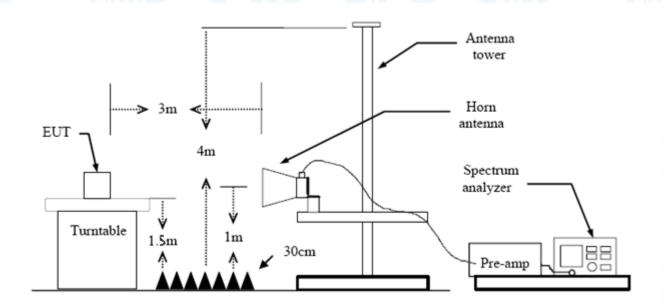
Below 30MHz Test Setup



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.

5.4 EUT Operating Condition

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



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5.5 Test Data

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

Test data please refer the following pages.



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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

T			Home	e ba	se	unit		Model:			S	921	
remp	eratur	e: 2	25 ℃					Relativ	e Hu	midity:	55	5%	
Test V	oltage):	DC 3	.7V			and the		a	0/11			9
Ant. P	ol.		Horizontal						TIPE.	33			
Test N	lode:	-	TX B Mode 2412MHz						e				
Rema	rk:		Only	wor	se (case	is reported			Allin			V V
80.0	dBuV/m												
										(RF)FCC	15C 3N	4 Radiatio Margin -6	
					Ţ							maigiii -c	
					_				_	6	;		
30							2 1 X	3 4 X X	X X				
							ill X				M. Jayleye	Marie Marie Marie Marie	Newspark Maryan
NA _L	undrage M					M.,	hurthaukhila A	Ac sditt.	' 'W	MA Lind .	,		
"	Many AND	Market Mark	Man Constant	البهابيه	المحواسات وارت	, Harry							
-20 30.00	0 40			70 0	10		(MHz)		300	400	500	600 700	1000.
		50	60	70 8					300	100			
		50	60			dina	Correct	Measi					
No	. Mk.				Rea	ding	Correct Factor	Measu men	ıre-	Limit		Over	
No		Fr	eq.		Rea Le	_	Factor		ire-			Over dB	Detec
No.		Fr	eq.	F	Rea Le	vel uV	Factor dB/m	men dBuV/	ire- t	Limit dBuV/n	n	dB	
1		Fr Mi 139.8	eq. Hz 3508	F	Rea Le	vel uv .00	Factor dB/m -21.85	men dBuV/ 22.1	ire- t /m	Limit dBuV/n	n) -	dB 21.35	pea
1 2		Fr MH 139.8 166.0	eq. Hz 3508	F	Rea Lev dB 44	vel .uv .00 .29	Factor dB/m -21.85 -20.66	22.1 27.6	ire- t m 5	Limit dBuV/n 43.50 43.50	n) -	dB 21.35 15.87	pea pea
1 2 3	. Mk.	From MH 139.8 166.0 204.9	eq. Hz 3508 0680	F	Rea Le ^o dB 44 48	vel .00 .29	Factor dB/m -21.85 -20.66 -19.77	men dBuV/ 22.1 27.6 26.9	ire- t /m 5 3	Limit dBuV/n 43.50 43.50 43.50	n	dB 21.35 15.87 16.52	pea pea
1 2 3 4	. Mk.	From MH 139.8 166.0 204.9 274.1	eq. Hz 3508 0680 9551	F	Rea Le dB 44 48 46 45	.00 .29 .75	Factor dB/m -21.85 -20.66 -19.77 -17.18	men dBuV/ 22.1 27.6 26.9 28.5	ire- t 5 3 8	Limit dBuV/n 43.50 43.50 43.50 46.00) -;) -	dB 21.35 15.87 16.52 17.44	pea pea pea
1 2 3	. Mk.	From MH 139.8 166.0 204.9	eq. Hz 3508 0680 9551 1939	F	Rear Le dB 44 48 46 45	vel .00 .29	Factor dB/m -21.85 -20.66 -19.77	men dBuV/ 22.1 27.6 26.9	m 5 3 8 6	Limit dBuV/n 43.50 43.50 43.50	n -;	dB 21.35 15.87 16.52	pea pea pea pea



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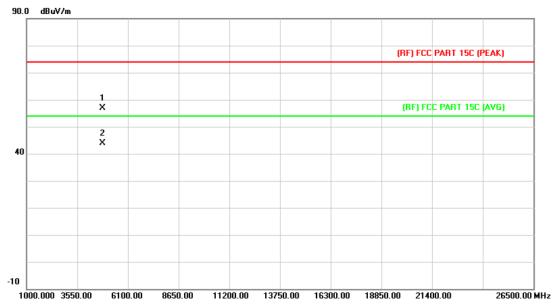
EUT	Γ:			Home base unit Model:				S921			
Гem	npera	ure:	2	5 °C	!	100	130	Relative	Humidity:	55%	
Tes	t Volta	age:		C 3	.7V						
\nt	. Pol.		V	ertic	ertical						
Test	t Mod	e:	Т	ХВ	Mod	de 241	2MHz	UID			
Ren	nark:		C	nly	wors	se cas	e is reported			13	
80.0) dBuV≀	m									
									(RF)FCC 1	5C 3M Radiation Margin -6	
											+
					\bot						
30	1	2			3		4 5 X X		X		
	1	Xw			¥		Marchania y	V., a.,		hadrada, frajkritegan, niska oznak	all the production
	W L	1.7			يا بن	i. II	/' "W\J'\\ <i>X</i>	"NVV./s.a.Misal all tibl	M. J. L. MANNAPARA		
4	ir i Umradi	M /	Much	Shill a	M)	ريالها). "MA.A.	JANA-JILIHAN MANANANANANANANANANANANANANANANANANAN	Aphlicology Markether Reserved		
	W 4	,	, My M	Mhalph	M	الهلا), "MA.A.	**************************************	The play to the state of the st		
	W 4 Mrwydd	,	,Mu _u ,Mu	الهداله	JH, ^{A.}	Happy James), "M.A.	**************************************	MANILLAND MANILL		
20	W 4	,	, May h	المهداله	M _v	Hyd Han), "MA.A.	MANY TERM BURNING	NAME OF STREET		
L.	0.000	40 !	50 60	70	80	Hard Hard	(MHz)	3	800 400 5	500 600 700	1000.00
L.	.000	40 !	50 60	70		ading		Measure	e-		1000.00
30	.000 No. M		Freq		Re	ading				000 600 700 Over	1000.00
30					Re L	_	Correct	Measure	e- Limit	Over	
30		lk.	Freq	.	Re L	evel	Correct Factor	Measure ment	e- Limit dBuV/m	Over dB	Detect
30	No. M	1k. 31	Freq MHz	1.	Re Lo	evel IBuV	Correct Factor	Measure ment	Limit dBuV/m 40.00	Over	Detecto
30 N	No. M	1k. 31 42	Freq MHz)2	Re Lo	evel BuV 8.47	Correct Factor dB/m -15.14	Measure ment dBuV/m	e- Limit dBuV/m 40.00 40.00	Over dB -16.67	Detection peal peal
1 2	No. M	1k. 31 42 85	Freq MHz .620)2	3 4	evel IBuV 8.47 2.30	Correct Factor dB/m -15.14 -21.20	Measure ment dBuV/m 23.33 21.10	e- Limit dBuV/m 40.00 40.00 40.00	Over dB -16.67 -18.90 -18.42	Detector peal peal peal
1 2 3	No. M	1k. 31 42 85 12	Freq MHz .620 2.154	1. 12 12 134	3-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4	evel IBuV 8.47 2.30 4.57	Correct Factor dB/m -15.14 -21.20 -22.99	Measure ment dBuV/m 23.33 21.10 21.58	e- Limit 40.00 40.00 40.00 43.50	Over dB -16.67 -18.90 -18.42 -17.77	peal peal peal
1 2 3 4	No. M	1k. 31 42 85 12	Freq MHz .620 2.154 5.898)2 	Re Lo	evel BuV 8.47 2.30 4.57 8.11	Correct Factor dB/m -15.14 -21.20 -22.99 -22.38	Measure ment dBuV/m 23.33 21.10 21.58 25.73	e- Limit 40.00 40.00 40.00 43.50 43.50	Over dB -16.67 -18.90 -18.42 -17.77 -17.26	Detector peal peal peal peal peal



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Above 1GHz

EUT:	Home base unit	Model:	S921
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V		133
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz		All De
Remark:	No report for the emission whi	ch more than 10 dB bel	ow the prescribed
	limit.		

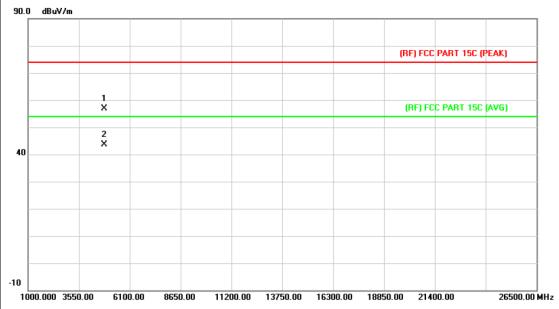


N	No. Mk	. Freq.	_	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.553	43.38	13.56	56.94	74.00	-17.06	peak
2	*	4824.051	30.31	13.56	43.87	54.00	-10.13	AVG



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EUT:	Home base unit	Model:	S921
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V		133
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHz		A WILL
Remark:	No report for the emission	which more than 10 dB	below the
	prescribed limit.		
1			

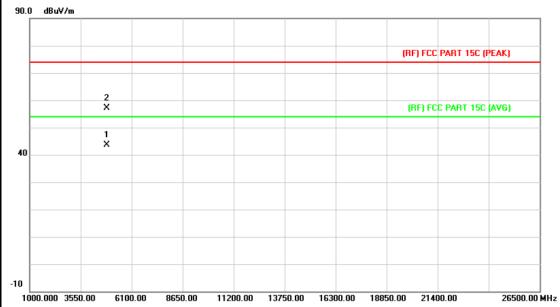


No	. Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4822.620	43.33	13.55	56.88	74.00	-17.12	peak
2	*	4824.009	30.09	13.56	43.65	54.00	-10.35	AVG



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EUT:	Home base unit	Model:	S921				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	Voltage: DC 3.7V						
Ant. Pol.	Horizontal						
Test Mode:	TX B Mode 2437MHz		I WILL				
Remark: No report for the emission which more than 10 dB below the prescribed limit.							

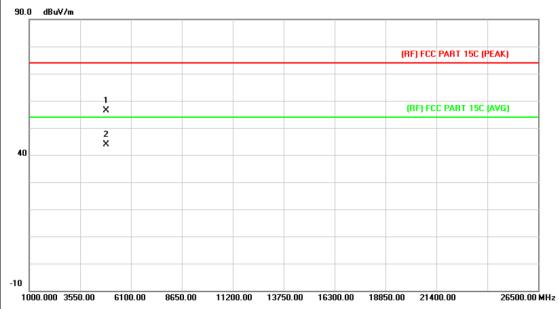


1	No.	Mk.	Freq.	_		Measure- ment	Limit	Over	
			MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		*	4873.703	29.89	13.86	43.75	54.00	-10.25	AVG
2			4874.972	43.22	13.86	57.08	74.00	-16.92	peak



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EUT:	Home base unit	Model:	S921					
Temperature:	25 °C Relative Humidity: 55%							
Test Voltage:	DC 3.7V	DC 3.7V						
Ant. Pol.	Vertical	Vertical						
Test Mode:	TX B Mode 2437MHz		a William					
Remark:	No report for the emission	No report for the emission which more than 10 dB below the						
	prescribed limit.							

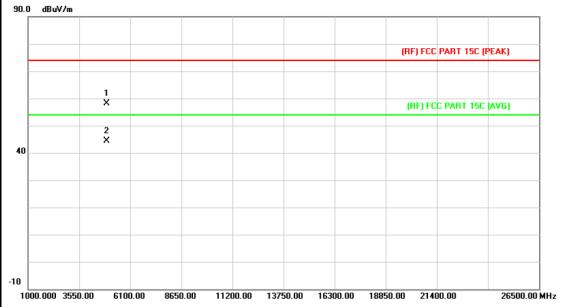


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4874.339	42.51	13.86	56.37	74.00	-17.63	peak
2	*	4875.092	29.91	13.87	43.78	54.00	-10.22	AVG



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EUT:	Home base unit	Model:	S921					
Temperature:	25 ℃	Relative Humidity:	55%					
Test Voltage:	DC 3.7V	DC 3.7V						
Ant. Pol.	Horizontal	Horizontal						
Test Mode:	TX B Mode 2462MHz		A VIII					
Remark:	No report for the emission	No report for the emission which more than 10 dB below the						
	prescribed limit.							

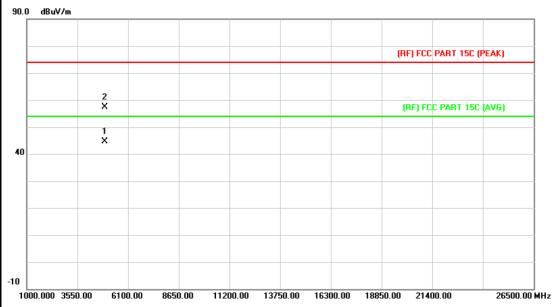


1	No.	Mk.	Freq.	_	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		*	4923.073	43.96	14.15	58.11	74.00	-15.89	peak
2			4924.261	30.25	14.15	44.40	74.00	-29.60	peak



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EUT:	Home base unit	Model:	S921				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 3.7V						
Ant. Pol.	Vertical						
Test Mode:	TX B Mode 2462MHz		MILL				
Remark:	emark: No report for the emission which more than 10 dB below the prescribed limit.						

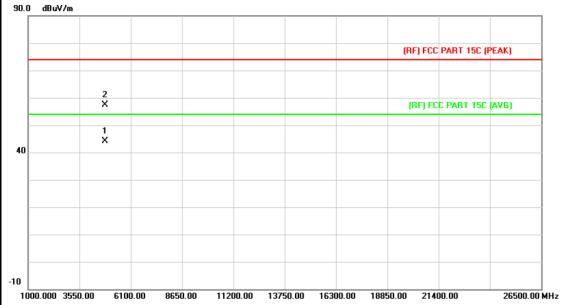


١	No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
			MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		*	4923.469	30.54	14.15	44.69	54.00	-9.31	AVG
2			4924.210	43.20	14.15	57.35	74.00	-16.65	peak



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EUT:	Home base unit	Model:	S921				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage: DC 3.7V							
Ant. Pol.	Horizontal	Horizontal					
Test Mode:	TX G Mode 2412MHz		Alle				
Remark: No report for the emission which more than 10 dB below the prescribed limit.							

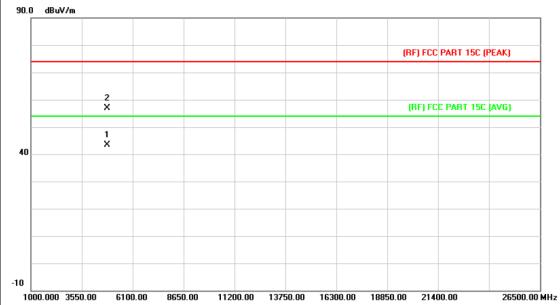


No	. Mk	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4823.973	30.54	13.56	44.10	54.00	-9.90	AVG
2		4824.027	43.74	13.56	57.30	74.00	-16.70	peak



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EUT:	Home base unit	Model:	S921				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 3.7V						
Ant. Pol.	Vertical						
Test Mode:	TX G Mode 2412MHz		MARIE				
Remark:	Remark: No report for the emission which more than 10 dB below the prescribed limit.						

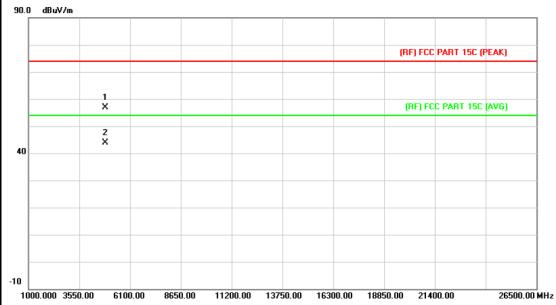


N	0.	Mk.	Freq.			Measure- ment	Limit	Over	
			MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		*	4824.030			43.44	54.00	-10.56	AVG
2			4824.618	43.39	13.56	56.95	74.00	-17.05	peak



Page: 31 of 91

EUT:	Home base unit	Model:	S921				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 3.7V	DC 3.7V					
Ant. Pol.	Horizontal	Horizontal					
Test Mode:	TX G Mode 2437MHz		A FILL				
Remark:	No report for the emission	No report for the emission which more than 10 dB below the					
	prescribed limit.						
i			!				

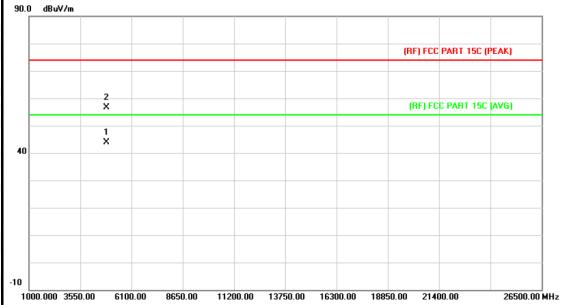


No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4872.983	43.12	13.85	56.97	74.00	-17.03	peak
2	*	4873.589	29.91	13.86	43.77	54.00	-10.23	AVG



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EUT:	Home base unit	Model:	S921				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 3.7V	DC 3.7V					
Ant. Pol.	Vertical	Vertical					
Test Mode:	TX G Mode 2437MHz		A PULL				
Remark:	No report for the emission v	No report for the emission which more than 10 dB below the					
	prescribed limit.						
			!				

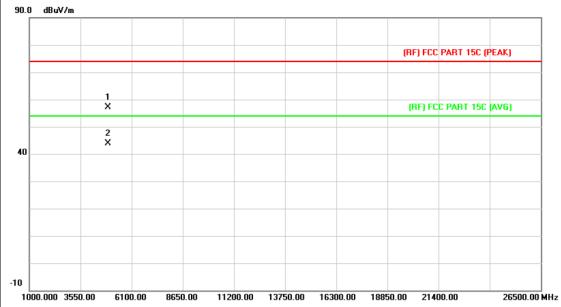


N	0.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
			MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	,	k	4873.757	30.08	13.86	43.94	54.00	-10.06	AVG
2			4873.763	42.70	13.86	56.56	74.00	-17.44	peak



Page: 33 of 91

EUT:	Home base unit	Model:	S921					
Temperature:	25 ℃	Relative Humidity:	55%					
Test Voltage:	DC 3.7V	DC 3.7V						
Ant. Pol.	Horizontal	Horizontal						
Test Mode:	TX G Mode 2462MHz		A FIRE					
Remark:	No report for the emission	No report for the emission which more than 10 dB below the						
	prescribed limit.							

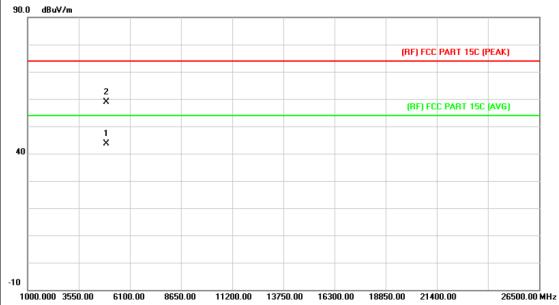


No	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4922.929	43.00	14.14	57.14	74.00	-16.86	peak
2	*	4923.217	29.63	14.15	43.78	54.00	-10.22	AVG



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EUT:	Home base unit	Model:	S921				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 3.7V	DC 3.7V					
Ant. Pol.	Vertical	Vertical					
Test Mode:	TX G Mode 2462MHz		A PULL				
Remark:	No report for the emission	No report for the emission which more than 10 dB below the					
	prescribed limit.						
Í							

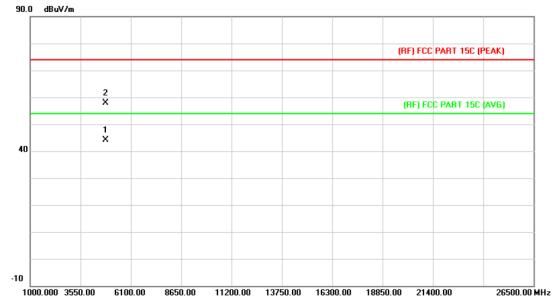


No	o. Mk	. Freq.			Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4922.542	29.61	14.14	43.75	54.00	-10.25	AVG
2		4924.342	44.81	14.15	58.96	74.00	-15.04	peak



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EUT:	Home base unit	Model:	S921				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 3.7V						
Ant. Pol.	Horizontal	Horizontal					
Test Mode:	TX N(HT20) Mode 2412MHz		A FILLY				
Remark:	No report for the emission which more than 10 dB below the						
	prescribed limit.						
i e							

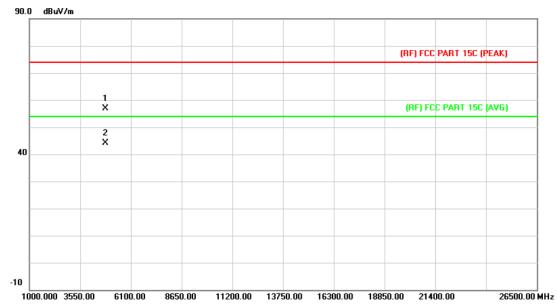


-	No.	Mk.	Freq.			Measure- ment	Limit	Over	
			MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		*	4823.958		13.56	44.19	54.00	-9.81	AVG
2			4824.516	44.32	13.56	57.88	74.00	-16.12	peak



Page: 36 of 91

EUT:	Home base unit	Model:	S921				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 3.7V	DC 3.7V					
Ant. Pol.	Vertical	Vertical					
Test Mode:	TX N(HT20) Mode 2412MHz	CHILDES -	I WILL				
Remark:	No report for the emission wh	No report for the emission which more than 10 dB below the					
	prescribed limit.						

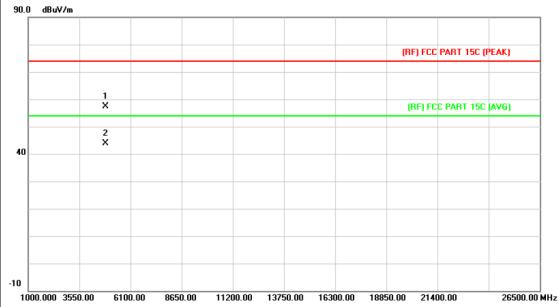


No	. Mk.	Freq.	_		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.373	43.44	13.56	57.00	74.00	-17.00	peak
2	*	4824.078	30.66	13.56	44.22	54.00	-9.78	AVG



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EUT:	Home base unit	Model:	S921			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	DC 3.7V		133			
Ant. Pol.	Horizontal					
Test Mode:	TX N(HT20) Mode 2437MHz		A HILL			
Remark:	No report for the emission which more than 10 dB below the					
	prescribed limit.					
00.0 40.472						

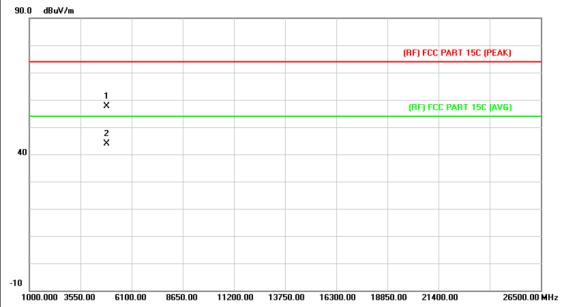


No	. Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4875.230	43.50	13.87	57.37	74.00	-16.63	peak
2	*	4875.350	30.03	13.87	43.90	54.00	-10.10	AVG



Page: 38 of 91

EUT:	Home base unit	Model:	S921				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 3.7V	DC 3.7V					
Ant. Pol.	Vertical						
Test Mode:	TX N(HT20) Mode 2437MHz		I HILL				
Remark:	No report for the emission whi	No report for the emission which more than 10 dB below the					
	prescribed limit.						

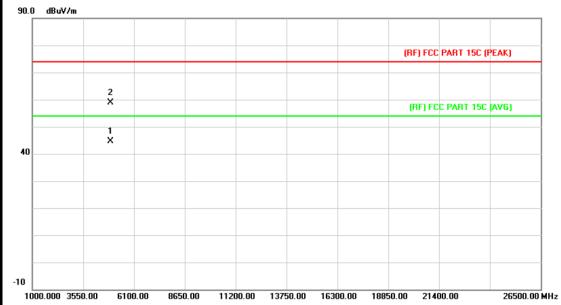


No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4874.894	43.68	13.86	57.54	74.00	-16.46	peak
2	*	4874.981	29.99	13.86	43.85	54.00	-10.15	AVG



Page: 39 of 91

EUT:	Home base unit	Model:	S921				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 3.7V	DC 3.7V					
Ant. Pol.	Horizontal		TO THE				
Test Mode:	TX N(HT20) Mode 2462MHz		All Inches				
Remark:	No report for the emission which more than 10 dB below the						
	prescribed limit.						

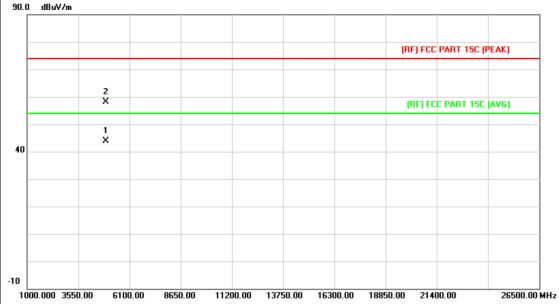


No	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4922.884	30.37	14.14	44.51	54.00	-9.49	AVG
2		4923.931	44.66	14.15	58.81	74.00	-15.19	peak



Page: 40 of 91

EUT:	Home base unit	Model:	S921				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 3.7V	DC 3.7V					
Ant. Pol.	Vertical		CIRIO.				
Test Mode:	TX N(HT20) Mode 2462MHz		A HILL				
Remark:	No report for the emission which more than 10 dB below the prescribed limit.						
00.0 40.444							

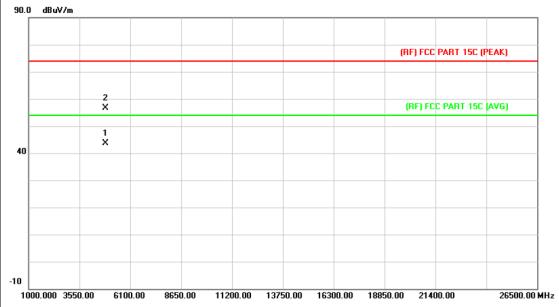


No	o. M	k. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4923.157	29.61	14.15	43.76	54.00	-10.24	AVG
2		4923.310	43.92	14.15	58.07	74.00	-15.93	peak



Page: 41 of 91

EUT:	Home base unit	Model:	S921				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 3.7V	DC 3.7V					
Ant. Pol.	Horizontal		101313				
Test Mode:	TX N(HT40) Mode 2422MHz		I HILL				
Remark:	emark: No report for the emission which more than 10 dB below the prescribed limit.						
	'						

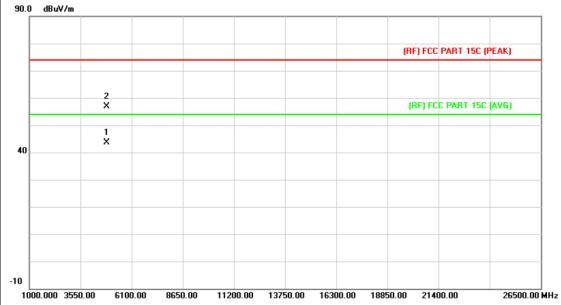


No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4842.899	30.03	13.67	43.70	54.00	-10.30	AVG
2		4845.377	42.85	13.69	56.54	74.00	-17.46	peak



Page: 42 of 91

EUT:	Home base unit	Model:	S921			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	DC 3.7V		133			
Ant. Pol.	Vertical		Circulation of the Control of the Co			
Test Mode:	TX N(HT40) Mode 2422MHz		A HILL			
Remark:	No report for the emission which more than 10 dB below the prescribed limit.					
	prescribed limit.					

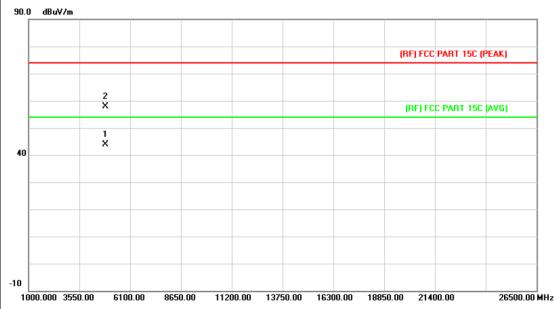


No	o. Mk	. Freq.	_	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4843.577	29.96	13.68	43.64	54.00	-10.36	AVG
2		4843.814	43.30	13.68	56.98	74.00	-17.02	peak



Page: 43 of 91

EUT:	Home base unit	Model:	S921					
Temperature:	25 °C Relative Humidity: 55%							
Test Voltage:	DC 3.7V	DC 3.7V						
Ant. Pol.	Horizontal							
Test Mode:	TX N(HT40) Mode 2437MHz		I WILL					
Remark:	No report for the emission wh	ich more than 10 dB b	elow the					
	prescribed limit.							

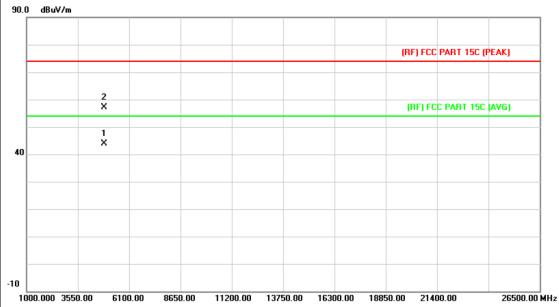


No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4873.289	30.00	13.86	43.86	54.00	-10.14	AVG
2		4873.904	43.98	13.86	57.84	74.00	-16.16	peak



Page: 44 of 91

EUT:	Home base unit	Model:	S921				
Temperature:	25 ℃	25 °C Relative Humidity: 55%					
Test Voltage:	DC 3.7V						
Ant. Pol.	Vertical	Vertical					
Test Mode:	TX N(HT40) Mode 2437MHz		A FIRST				
Remark:	No report for the emission which more than 10 dB below the prescribed limit.						
Remark:							

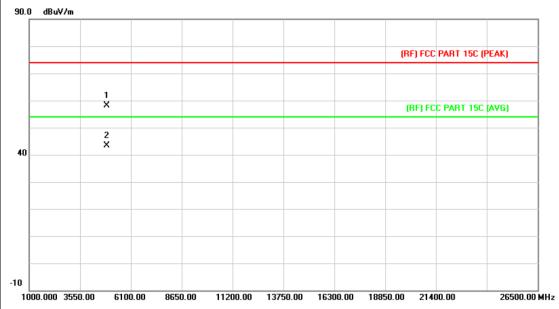


No	ь. М	k. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4874.681	30.11	13.86	43.97	54.00	-10.03	AVG
2		4874.798	43.26	13.86	57.12	74.00	-16.88	peak



Page: 45 of 91

EUT:	Home base unit	Model:	S921				
Temperature:	25 °C Relative Humidity: 55%						
Test Voltage:	DC 3.7V						
Ant. Pol.	Horizontal						
Test Mode:	TX N(HT40) Mode 2452MHz	COLUMN TO THE REAL PROPERTY OF THE PERTY OF	MARIE				
Remark:	No report for the emission which more than 10 dB below the prescribed limit.						

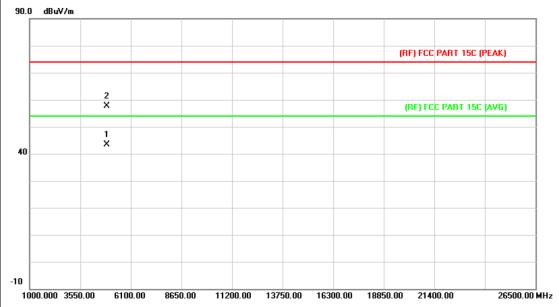


N	o. Mk	. Freq.	_	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4903.154	44.11	14.03	58.14	74.00	-15.86	peak
2	*	4904.492	29.44	14.03	43.47	54.00	-10.53	AVG



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EUT:	Home base unit	Model:	S921					
Temperature:	25 °C Relative Humidity: 55%							
Test Voltage:	DC 3.7V	DC 3.7V						
Ant. Pol.	Vertical		TO THE					
Test Mode:	TX N(HT40) Mode 2452MHz		All Inches					
Remark:	No report for the emission whi	ch more than 10 dB be	elow the					
	prescribed limit.							



N	No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
			MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		*	4905.203	29.39	14.04	43.43	54.00	-10.57	AVG
2			4905.488	43.69	14.04	57.73	74.00	-16.27	peak



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6. Restricted Bands Requirement

6.1 Test Standard and Limit

6.1.1 Test Standard

FCC Part 15.247(d)

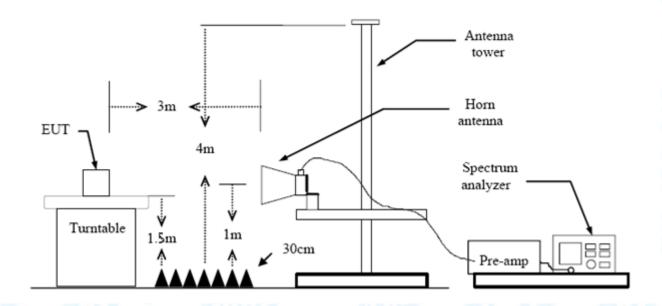
FCC Part 15.209

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 see the next page.



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(1) Radiation Test

EUT:	Home base unit	Model:	S921				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 3.7V	LA V					
Ant. Pol.	Horizontal	WW TO THE	THU.				
Test Mode:	TX B Mode 2412MHz	TX B Mode 2412MHz					
Remark:	N/A						

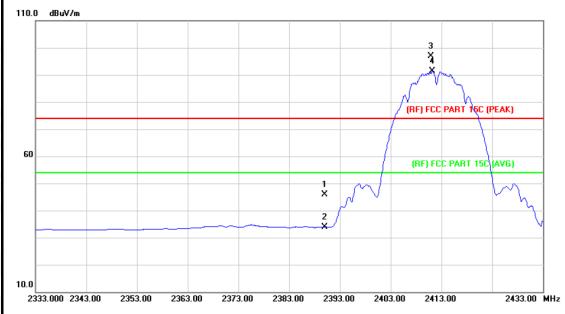


No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	48.16	0.77	48.93	74.00	-25.07	peak
2		2390.000	35.66	0.77	36.43	54.00	-17.57	AVG
3	Χ	2410.600	102.34	0.86	103.20	Fundamental F	requency	peak
4	*	2411.400	96.43	0.86	97.29	Fundamental F	requency	AVG



Report No.: TB-FCC151147
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EUT:	Home base unit	Model:	S921				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 3.7V	DC 3.7V					
Ant. Pol.	Vertical						
Test Mode:	TX B Mode 2412MHz						
Remark:	N/A		3 _ [

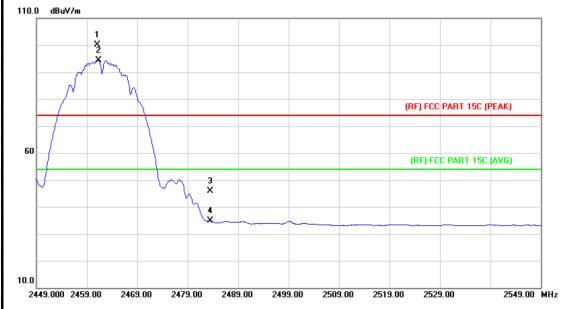


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	45.19	0.77	45.96	74.00	-28.04	peak
2		2390.000	33.22	0.77	33.99	54.00	-20.01	AVG
3	Χ	2410.900	96.13	0.86	96.99	Fundamental Frequency		peak
4	*	2411.200	90.50	0.86	91.36	Fundamental	Frequency	AVG



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EUT:	Home base unit	Model:	S921				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 3.7V						
Ant. Pol.	Horizontal	Horizontal					
Test Mode:	TX B Mode 2462MHz	TX B Mode 2462MHz					
Remark:	N/A		2 _ @				

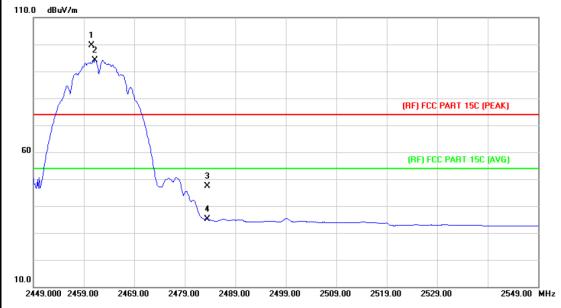


N	o. Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2461.000	99.08	1.06	100.14	Fundamental Frequency		peak
2	*	2461.300	93.34	1.07	94.41	Fundamental	Frequency	AVG
3		2483.500	44.62	1.17	45.79	74.00	-28.21	peak
4		2483.500	33.59	1.17	34.76	54.00	-19.24	AVG



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EUT:	Home base unit	Model:	S921				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 3.7V						
Ant. Pol.	Vertical	Vertical					
Test Mode:	TX B Mode 2462MHz	TX B Mode 2462MHz					
Remark:	N/A		3 _ [



1	Vo.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		X	2460.600	98.57	1.06	99.63	Fundamental Frequency		peak
2		*	2461.200	93.14	1.07	94.21	Fundamental I	requency	AVG
3			2483.500	46.09	1.17	47.26	74.00	-26.74	peak
4			2483.500	33.92	1.17	35.09	54.00	-18.91	AVG



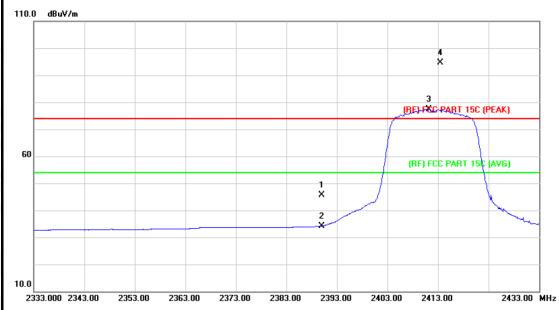
Page: 53 of 91

EUT:			Hom	e base	unit		167	Мо	del:		S921			
Temp	eratu	re:	25 °C	2	all.	13		Re	lative	Humidity	: 55%			
	Voltag		DC 3	3.7V	37		65			(53)	NO S			
Ant. I			Horiz	ontal		UN				a V				
Test	Mode:		TX G	Mode	2412	MHz		6		19	2 11	Mark Control		
Rema	ark:		N/A	W				1			13	_ (
110.0	dBuV/m													
										3 X				
										4				
										The state of the s	PART 15C (PEA	K)		
60														
-								1 X		(RF) F	C PART 150 (AV	PART 150 (AVG)		
											_			
								2 _X						
10.0	3.000 234	13 00	2353.00	2363.00	1 237	3.00 238	3.00	2393	3 00 3	2403.00 241	3.00	2433.00 MH		
200	0.000 20	10.00	2000.00	2000.00	201	0.00	5.00	2000		240	0.00	2400.00 1411		
				Daa	alia a	0	-4	N /						
No	o. Mk	. Fr	eq.	Rea Le		Corre Fact			asure ent	Limit	Over			
		М	Hz	dB	u∨	dB/m		dB	uV/m	dBuV/n	n dB	Detecto		
1		2390	.000	48.	.96	0.77		49	9.73	74.00	-24.27	peak		
2		2390	.000	36.	.51	0.77		37	7.28	54.00	-16.72	AVG		
3	X	2407	.400	101	.19	0.85		10	2.04	Fundamen	tal Frequency	peak		
4	*	2410	.300	82.	.48	0.85		83	3.33	Fundamen	tal Frequency	AVG		



Page: 54 of 91

	EUT:	Home base unit	Model:	S921					
	Temperature:	25 ℃	Relative Humidity:	55%					
	Test Voltage:	DC 3.7V		133					
į	Ant. Pol.	Vertical	Vertical						
	Test Mode:	TX G Mode 2412MHz		MARIE					
	Remark:	N/A		3 _ (1)					

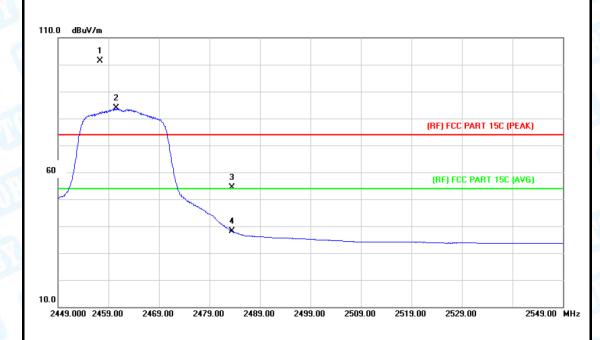


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	44.74	0.77	45.51	74.00	-28.49	peak
2		2390.000	33.48	0.77	34.25	54.00	-19.75	AVG
3	*	2411.200	76.58	0.86	77.44	Fundamental Frequency		AVG
4	Χ	2413.500	93.65	0.86	94.51	Fundamental	Frequency	peak



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EUT:	Home base unit	Model:	S921				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 3.7V						
Ant. Pol.	Horizontal	Horizontal					
Test Mode:	TX G Mode 2462MHz		A HILL				
Remark:	N/A		3 _ (1)				

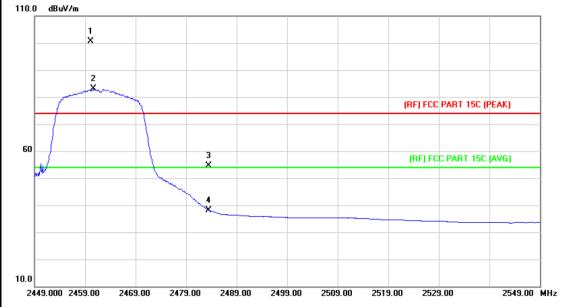


No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2457.300	100.30	1.05	101.35	Fundamental F	requency	peak
2	*	2460.600	82.76	1.06	83.82	Fundamental F	requency	AVG
3		2483.500	53.16	1.17	54.33	74.00	-19.67	peak
4		2483.500	36.96	1.17	38.13	54.00	-15.87	AVG



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EUT:	Home base unit	Model:	S921					
Temperature:	25 ℃	Relative Humidity:	55%					
Test Voltage:	DC 3.7V							
Ant. Pol.	Vertical	Vertical						
Test Mode:	TX G Mode 2462MHz	TX G Mode 2462MHz						
Remark:	N/A		73 _ (1)					

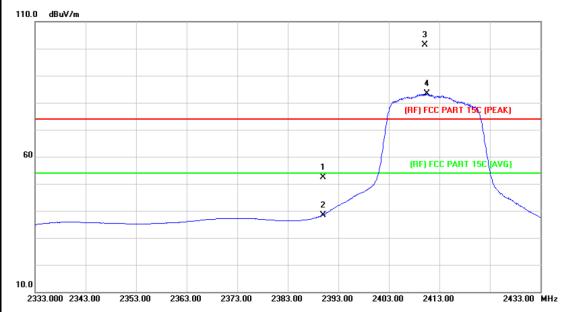


No	o. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2460.200	99.68	1.06	100.74	Fundamental Frequency		peak
2	*	2460.700	82.09	1.06	83.15	Fundamental	Frequency	AVG
3		2483.500	53.53	1.17	54.70	74.00	-19.30	peak
4		2483.500	37.05	1.17	38.22	54.00	-15.78	AVG



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EUT:	Home base unit	Model:	S921				
Temperature:	25 ℃ Relative Humidity: 55%						
Test Voltage:	DC 3.7V						
Ant. Pol.	Horizontal						
Test Mode:	TX N(HT20) Mode 2412MH	z	A LIVE				
Remark:	N/A						
110.0 40.4/4							

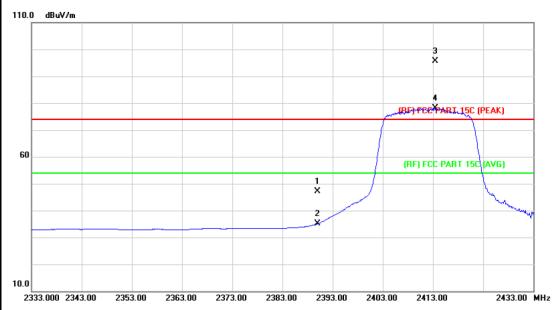


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	51.51	0.77	52.28	74.00	-21.72	peak
2		2390.000	37.73	0.77	38.50	54.00	-15.50	AVG
3	Χ	2410.200	100.55	0.85	101.40	Fundamental Frequency		peak
4	*	2410.500	82.46	0.86	83.32	Fundamental	Frequency	AVG



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ļ	EUT:	Home base unit	Model:	S921					
	Temperature:	25 ℃	Relative Humidity:	55%					
	Test Voltage:	DC 3.7V							
	Ant. Pol.	Vertical	Vertical						
	Test Mode:	TX N(HT20) Mode 2412MHz							
	Remark:	N/A	an's	2 _ (

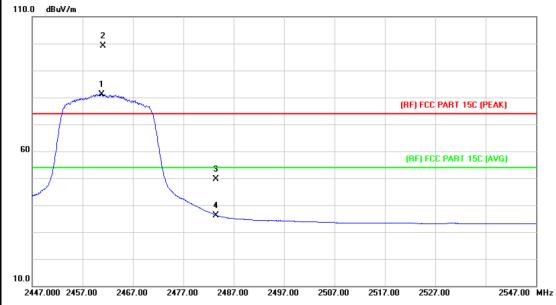


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	46.43	0.77	47.20	74.00	-26.80	peak
2		2390.000	34.37	0.77	35.14	54.00	-18.86	AVG
3	X	2413.400	94.87	0.86	95.73	Fundamental Frequency		peak
4	*	2413.500	77.24	0.86	78.10	Fundamenta	I Frequency	AVG



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EUT:	Home base unit	Model:	S921				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 3.7V						
Ant. Pol.	Horizontal						
Test Mode:	TX N(HT20) Mode 2462MHz						
Remark:	N/A		3				

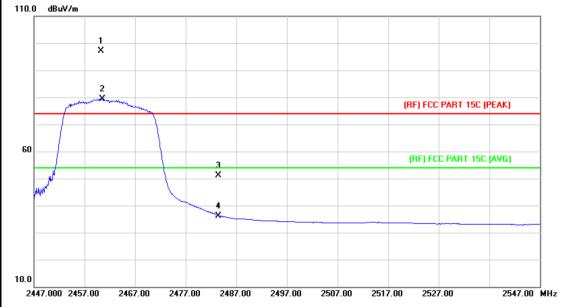


No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2460.800	80.16	1.06	81.22	Fundamental Frequency :		AVG
2	X	2461.100	98.17	1.06	99.23	Fundamental F	requency	peak
3		2483.500	48.52	1.17	49.69	74.00	-24.31	peak
4		2483.500	35.06	1.17	36.23	54.00	-17.77	AVG



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EUT:	Home base unit	Model:	S921					
Temperature:	25 ℃	Relative Humidity:	55%					
Test Voltage:	DC 3.7V							
Ant. Pol.	Vertical	Vertical						
Test Mode:	TX N(HT20) Mode 2462MHz	TX N(HT20) Mode 2462MHz						
Remark:	N/A		2 _ (

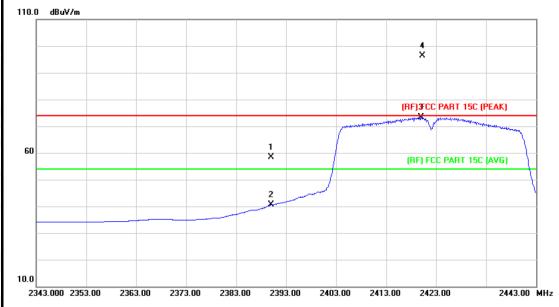


	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		X	2460.300	96.04	1.06	97.10	Fundamental Frequency		peak
2		*	2460.600	78.38	1.06	79.44	Fundamental Frequency		AVG
3			2483.500	50.02	1.17	51.19	74.00	-22.81	peak
4			2483.500	35.08	1.17	36.25	54.00	-17.75	AVG



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EUT:	Home base unit	Model:	S921					
Temperature:	25 ℃	Relative Humidity:	55%					
Test Voltage:	DC 3.7V							
Ant. Pol.	Horizontal	Horizontal						
Test Mode:	TX N(HT40) Mode 2452MH	TX N(HT40) Mode 2452MHz						
Remark:	N/A		73					



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	57.58	0.77	58.35	74.00	-15.65	peak
2		2390.000	39.89	0.77	40.66	54.00	-13.34	AVG
3	Χ	2420.000	72.42	0.89	73.31	Fundamental Frequency		AVG
4	*	2420.300	95.57	0.89	96.46	Fundamental Frequency		peak



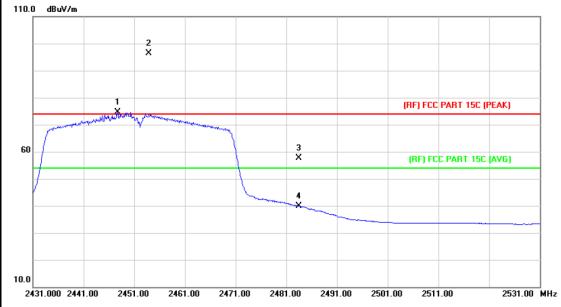
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EUT:		Home base unit			Model:			S921				
Temperature:			25 ℃			Relative Humidity: 55%		55%				
est	Voltag	e:	DC 3	3.7V			5					
۱nt.	Pol.		Vertic	cal		08			4	10		
Test Mode:			TX N	I(HT4	10) Mod	de 2422N	ЛHz	67	MA	2	2 17	The same
Ren	nark:		N/A					1		call!	13	
110.0) dBuV/m											
60						1 X			and the second s	an warmen of	ART 15C (PEAK	
10.0 23	843.000 235	53.00 2	2363.00	2373.	00 238	83.00 239	3.00	2403.0	DO 241	3.00 2423.	00 2	443.00 MH
	lo. Mk	Fr			ading	Corre			sure-	1::4	Over	
Ν			eq.	Le	evel	Fact	or	me	ent	Limit		
N		MI			BuV	Fact dB/m			ent ıV/m	dBuV/m	dB	Detecto
1			Hz	d				dBu				Detecto
1 2		MI	.000	d 49	BuV	dB/m	,	dBu	ıV/m	dBuV/m	dB	
1	*	MI 2390	.000 .000	d 49 38	Bu∨ 9.69	dB/m 0.77	,	dBu 50 36	ıV/m .46	dBuV/m 74.00	dB -23.54 -17.69	peal



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Ş	EUT:	Home base unit	Model:	S921					
Ì	Temperature:	25 ℃	Relative Humidity:	55%					
	Test Voltage:	DC 3.7V Horizontal TX N(HT40) Mode 2452MHz							
	Ant. Pol.								
	Test Mode:								
	Remark:	N/A							

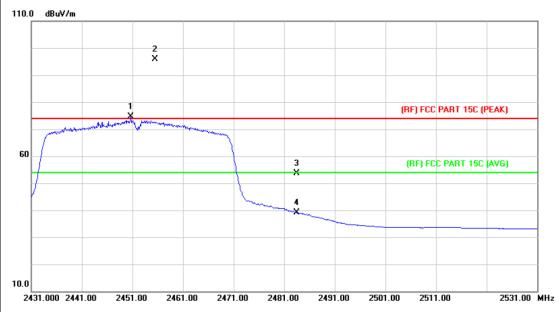


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2447.700	73.71	1.02	74.73	Fundamental F	requency }	AVG
2	*	2453.900	95.22	1.04	96.26	Fundamental F	requency	peak
3		2483.500	56.53	1.17	57.70	74.00	-16.30	peak
4		2483.500	38.65	1.17	39.82	54.00	-14.18	AVG

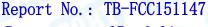


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EUT:	Home base unit	Model:	S921
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2452MHz		All The
Remark:	N/A		3 _ (1)



N	o. Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2450.700	73.60	1.02	74.62	Fundamental	Frequency	AVG
2	*	2455.400	94.79	1.05	95.84	Fundamental	Frequency	peak
3		2483.500	52.51	1.17	53.68	74.00	-20.32	peak
4		2483.500	37.96	1.17	39.13	54.00	-14.87	AVG

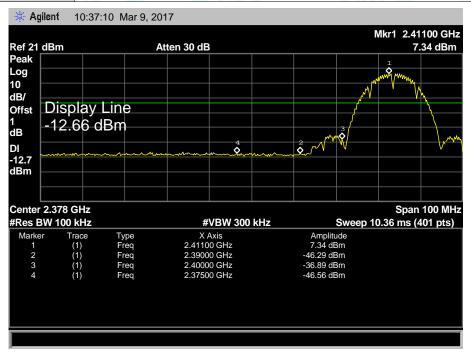


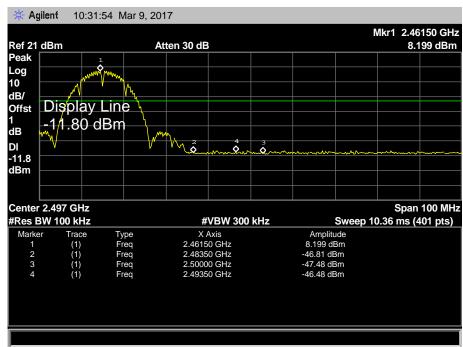


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(2) Conducted Test

EUT:	Home base unit	Model:	S921
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Test Mode:	TX B Mode 2412MHz / TX B Mode 2462MHz		
Remark:	The EUT is programed in co	ontinuously transmitting	mode



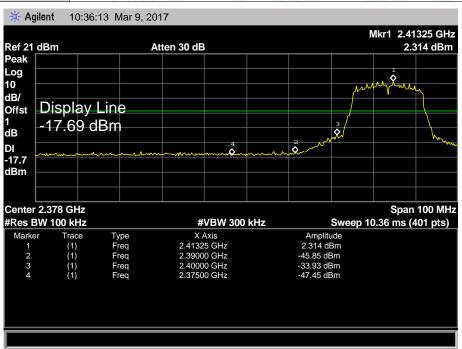


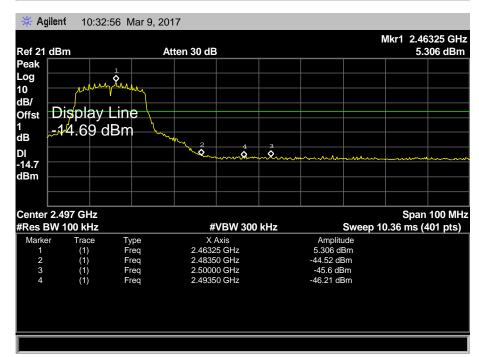




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EUT:	Home base unit	Model:	S921
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Test Mode:	TX G Mode 2412MHz / TX G Mode 2462MHz		
Remark:	The EUT is programed in continuously transmitting mode		



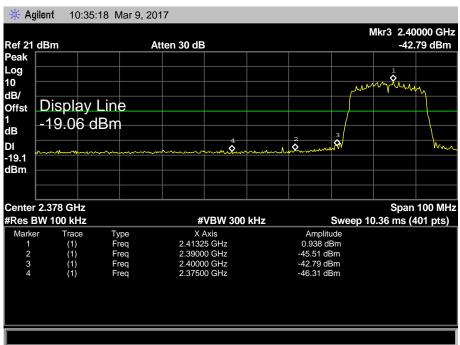


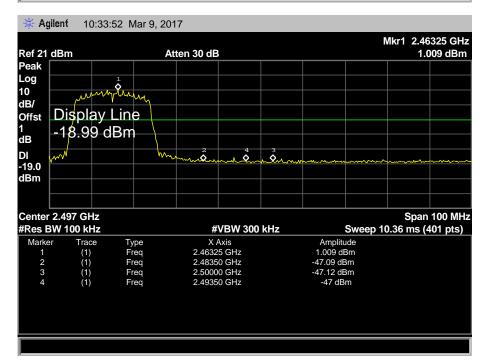


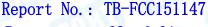


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EUT:	Home base unit	Model:	S921
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V		133
Test Mode:	TX N(HT20) Mode 2412MHz / TX N(HT20) Mode 2462MHz		
Remark:	The EUT is programed in continuously transmitting mode		



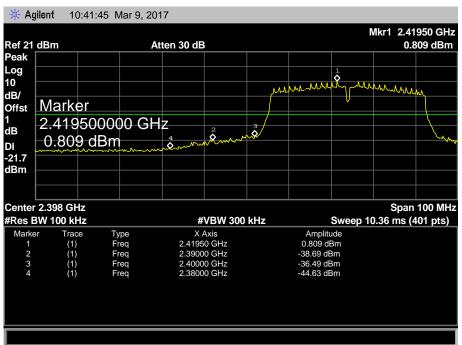


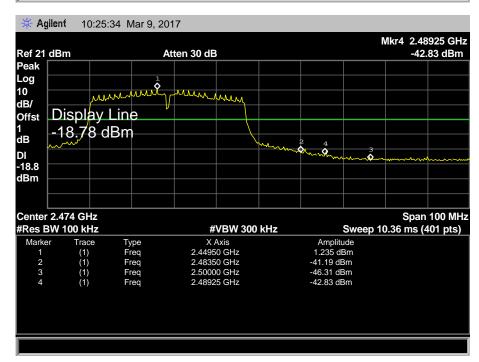




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EUT:	Home base unit	Model:	S921
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V		133
Test Mode:	TX N(HT40) Mode 2422MHz / TX N(HT40) Mode 2452MHz		
Remark:	The EUT is programed in continuously transmitting mode		







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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(MF					
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.



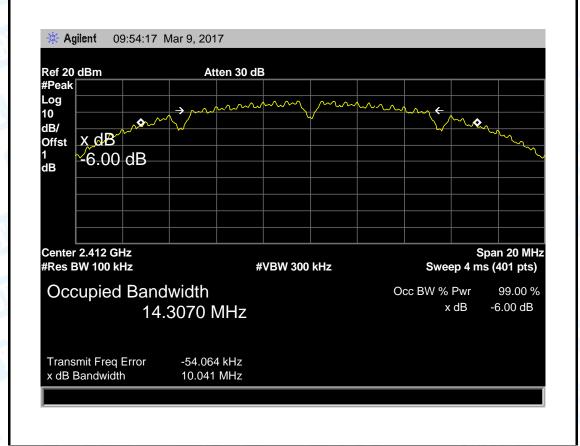
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7.5 Test Data

EUT:	Home base unit	Model:	S921	
Temperature:	25 ℃	Relative Humidity:	55%	
Test Voltage:	DC 3.7V		CONTRACT OF THE PARTY OF THE PA	
Test Mode:	TX 802.11B Mode	Chine Co	1 Um	
Channel frequence	cy 6dB Bandwidth	99% Bandwidth	Limit	
(MHz)	(MHz)	(MHz)	(MHz)	
2412	10.041	14.3070		
2437	10.001	14.3037	>=0.5	
2462	10.036	14.3246		
2462	10.036	14.3246		

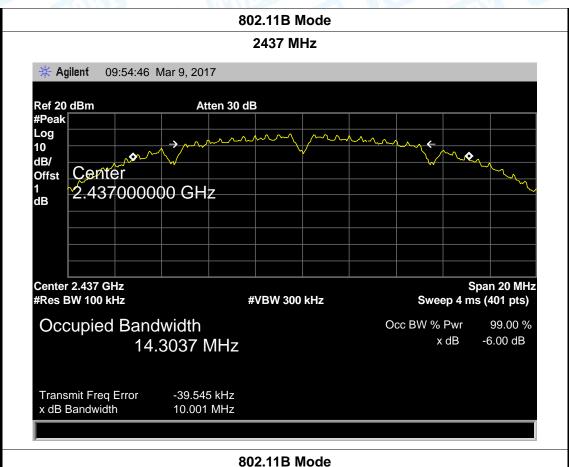
802.11B Mode

2412 MHz



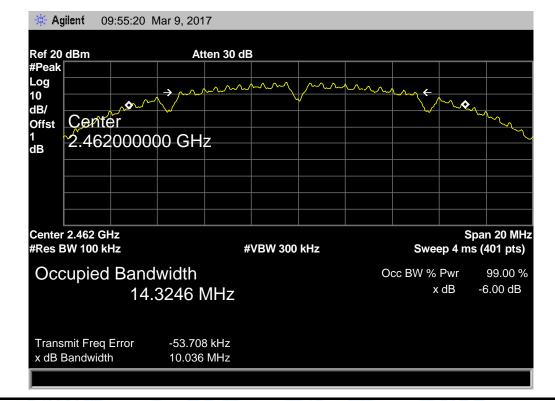


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602.116 MOGE

2462 MHz

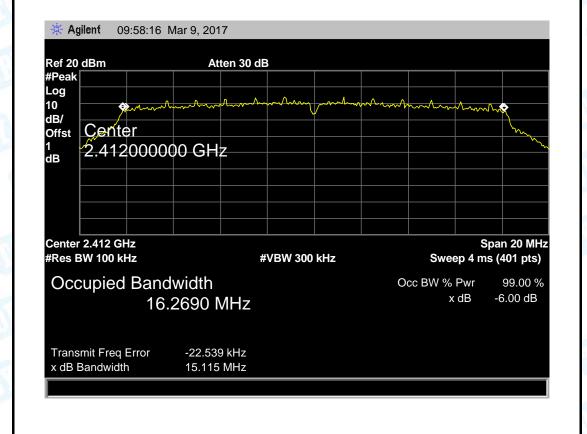




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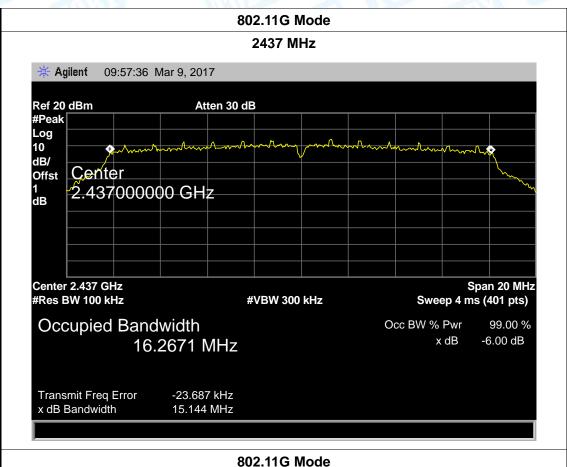
EUT:	Home base unit	Model:	S921
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V		133
Test Mode:	TX 802.11G Mode		
Channel frequence	cy 6dB Bandwidth	99% Bandwidth	Limit
(MHz)	(MHz)	(MHz)	(MHz)
2412	15.115	16.2690	
2437	15.144	16.2671	>=0.5
2462	15.149	16.2649	

2412 MHz

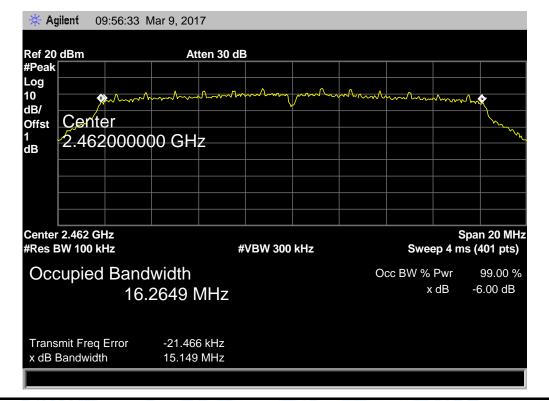




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602.11G MOU

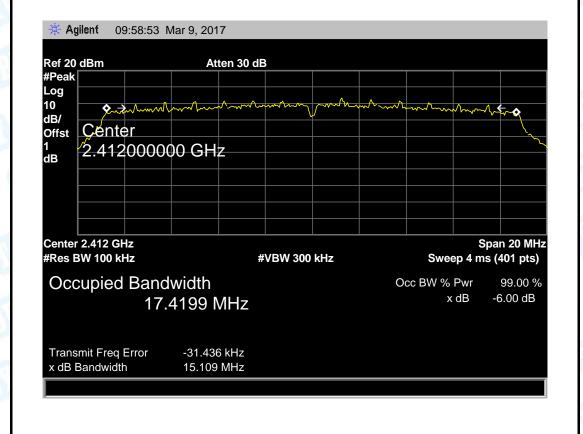




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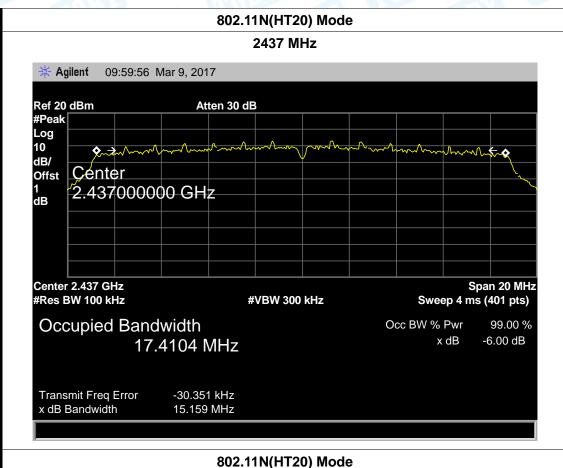
EUT:	Home base unit	Model:	S921
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V		133
Test Mode:	TX 802.11N(HT20) Mode		
Channel frequence	nnel frequency 6dB Bandwidth 99% Bandwidth Limit		
(MHz) (MHz)		/B.41.1. \	(2.2)
(IVIHZ)	(MHz)	(MHz)	(MHz)
2412	(MHZ) 15.109	(MHz) 17.4199	(MHz)
` '	` ,	, ,	(MHz) >=0.5
2412	15.109	17.4199	







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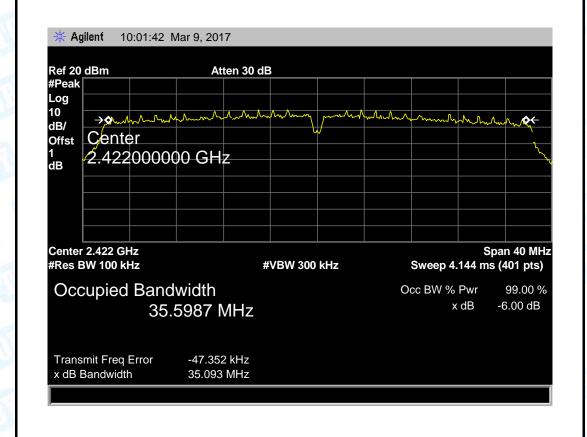


2462 MHz * Agilent 10:00:30 Mar 9, 2017 Ref 20 dBm Atten 30 dB #Peak Log 10 & manhamman dB/ Center Offst 1 dB 2.462000000 GHz Center 2.462 GHz Span 20 MHz #Res BW 100 kHz **#VBW 300 kHz** Sweep 4 ms (401 pts) Occupied Bandwidth Occ BW % Pwr 99.00 % -6.00 dB x dB 17.4363 MHz Transmit Freq Error -23.686 kHz x dB Bandwidth 15.156 MHz



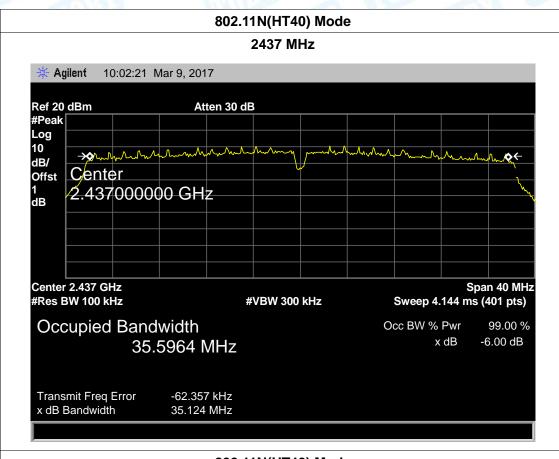
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EUT:	Home base unit	Model:	S921	
Temperature:	25 ℃	Relative Humidity:	55%	
Test Voltage:	DC 3.7V	THURS	0	
Test Mode:	TX 802.11N(HT40) Mode			
Channel frequence	I frequency 6dB Bandwidth 99% Bandwidth Lim			
(MHz)	(MHz)	(MHz)	(MHz)	
2422	35.093	35.5987		
2437	35.124	35.5964	>=0.5	
2452 35.121		35.5935		
802.11N(HT40) Mode				

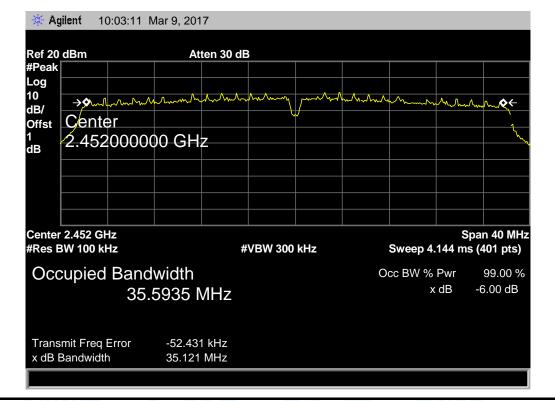




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802.11N(HT40) Mode





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8. Peak Output Power Test

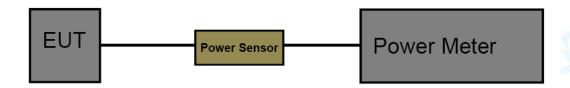
8.1 Test Standard and Limit

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.

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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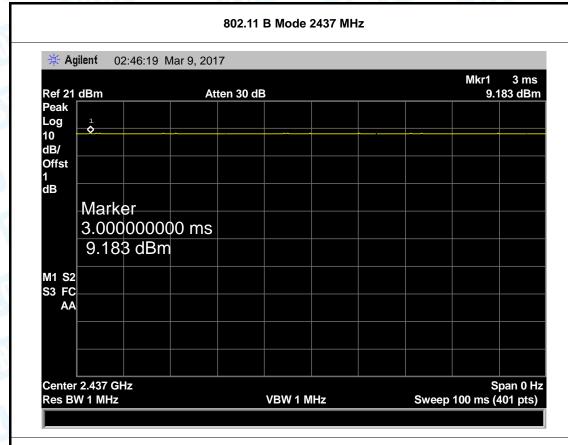
8.5 Test Data

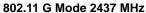
EUT:	Home base unit	Model:	S921	
Temperature:	25 ℃	Relative Humic	lity: 55%	
Test Voltage:	DC 3.7V			
Mode	Channel frequency (MHz)	Test Result (dBm)	Limit (dBm)	
	2412	19.78		
802.11b	2437	19.67		
	2462	19.07		
	2412	18.61		
802.11g	2437	18.59		
	2462	18.66	30	
902 44 m	2412	17.67	30	
802.11n (HT20)	2437	17.81		
(11120)	2462	17.73		
902.44 =	2422	17.15		
802.11n (HT40)	2437	17.04		
(11140)	2452	17.46		
	Resu	ult: PASS		

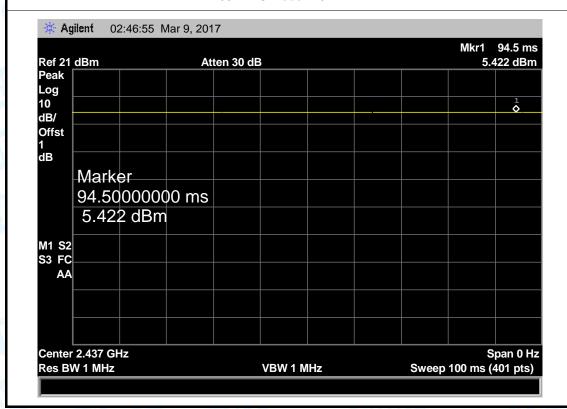
Duty Cycle			
Mode	Channel frequency (MHz)	Test Result	
	2412		
802.11b	2437		
	2462		
	2412		
802.11g	2437		
	2462	. 000/	
000 44	2412	>98%	
802.11n (HT20)	2437		
(1120)	2462		
000 44	2422		
802.11n (HT40)	2437		
(1140)	2452		

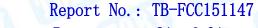


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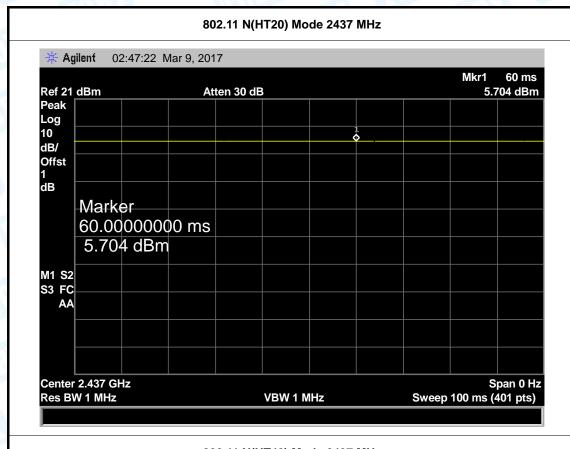


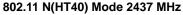


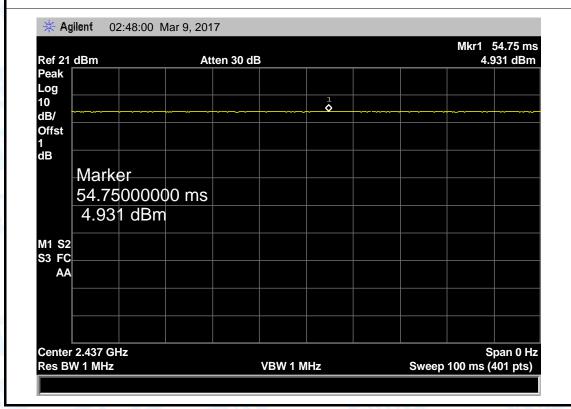


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9. Power Spectral Density Test

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.

- (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.

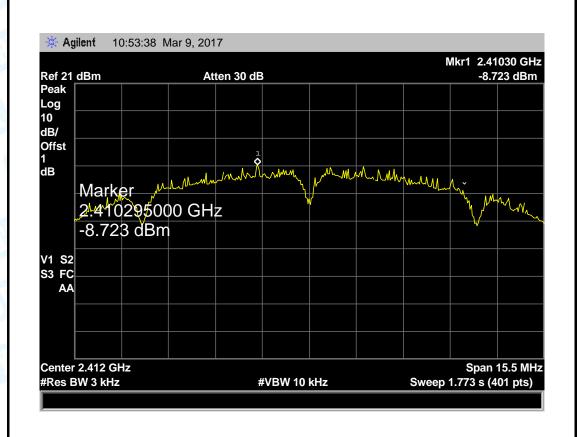


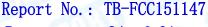
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9.5 Test Data

EUT:	Home bas	se unit	Model:	S921
Temperature:	25 ℃		Relative Humidity:	55%
Test Voltage:	DC 3.7V	DC 3.7V		CALLED .
Test Mode:	TX 802.11B Mode			1 Um
Channel Freq	Channel Frequency Power Density		sity	Limit
(MHz)	(MHz) (3 kHz/dBn		m)	(dBm)
2412	2412			
2437	2437			8
2462		-6.881		
802 11B Mode				

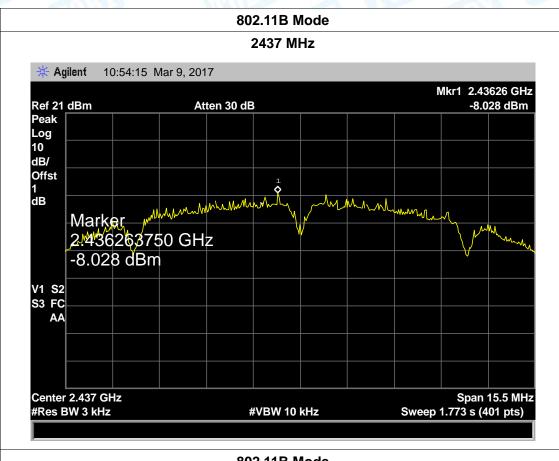
002.11B MOC







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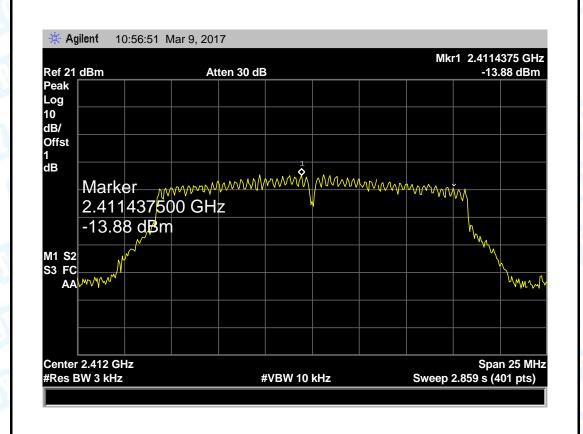


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EUT:	Home ba	se unit	Model:		S921	1111
Temperature:	25 ℃		Tempera	iture:	25 ℃	
Test Voltage:	DC 3.7V		100 V	(m)	1133	
Test Mode:	TX 802.1	1G Mode				
Channel Frequency Power Density		r Density		Limit		

Channel Frequency	Power Density	Limit
(MHz)	(3 kHz/dBm)	(dBm)
2412	-13.88	
2437	-10.72	8
2462	-11.39	

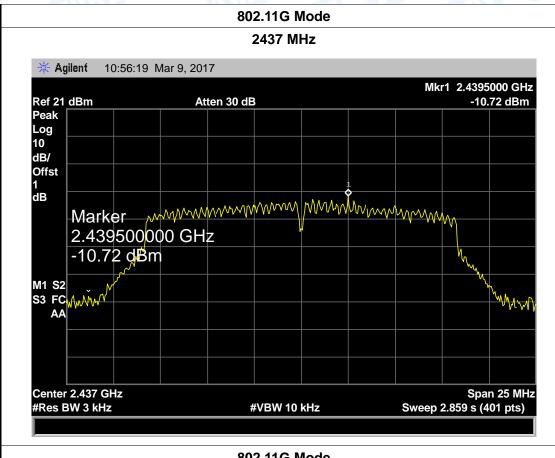
802.11G Mode







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802.11G Mode 2462 MHz 10:55:48 Mar 9, 2017 * Agilent Mkr1 2.4648125 GHz -11.39 dBm Ref 21 dBm Atten 30 dB Peak Log 10 dB/ Offst 1 dB mm frank -11.39 dBm M1 S2 S3 FC AA Center 2.462 GHz Span 25 MHz #Res BW 3 kHz #VBW 10 kHz Sweep 2.859 s (401 pts)

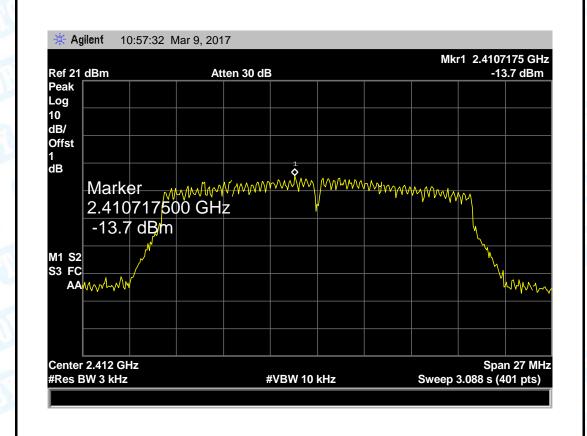


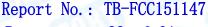
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EUT:	Home base unit	Model:	S921
Temperature:	25 ℃	Temperature:	25 ℃
Test Voltage:	DC 3.7V		11:323
Test Mode:	TX 802.11N(HT20) Mode		

1001 1110 1101			
Channel Frequency		Power Density	Limit
(MHz)		(3 kHz/dBm)	(dBm)
2412		-13.70	
2437		-12.58	8
2/162		-12 66	

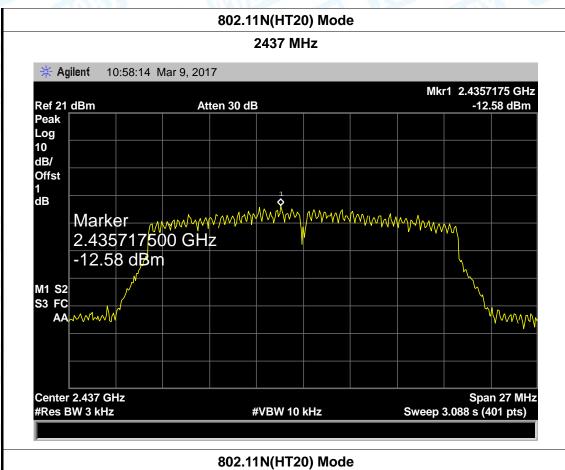
802.11N(HT20) Mode







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2462 MHz * Agilent 10:58:54 Mar 9, 2017 Mkr1 2.4641600 GHz -12.66 dBm Ref 21 dBm Atten 30 dB Peak Log 10 dB/ Offst 1 dB mmmmmm MMMMMMM Marker 2.464160000 GHz -12.66 dBm M1 S2 S3 FC $\mathcal{M}_{\mathcal{M}}$ AA Center 2.462 GHz Span 27 MHz #Res BW 3 kHz #VBW 10 kHz Sweep 3.088 s (401 pts)

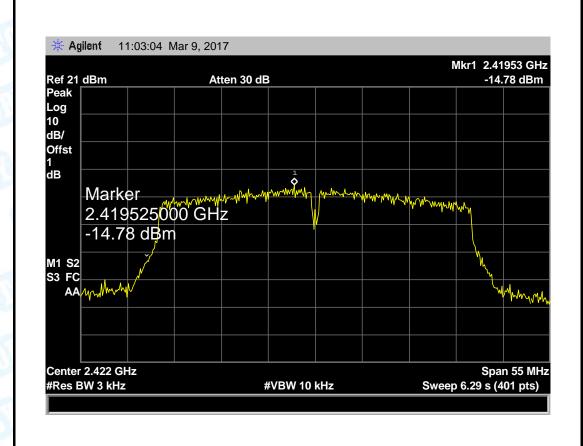


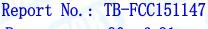
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EUT:	Home base unit	Model:	S921
Temperature:	25 ℃	Temperature:	25 ℃
Test Voltage:	DC 3.7V	THU.	1
Test Mode:	TX 802.11N(HT40) Mode	81	

Channel Frequency	Power Density	Limit
(MHz)	(3 kHz/dBm)	(dBm)
2422	-14.78	
2437	-15.64	8
2452	-15.41	

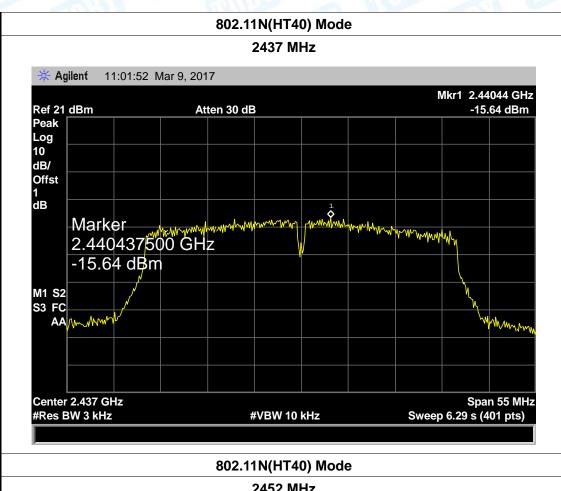
802.11N(HT40) Mode

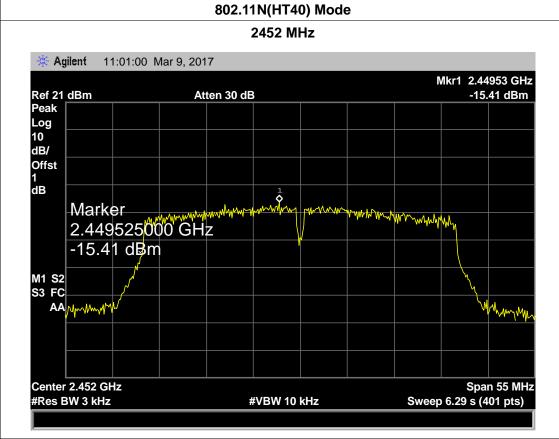






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10. Antenna Requirement

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 3 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 External Antenna. It complies with the standard requirement.

	Antenna Type
335	□ Permanent attached antenna
(In)	✓ Unique connector antenna
TO THE REAL PROPERTY.	□ Professional installation antenna

----END OF REPORT----