FCC Test Report

Report No.: AGC03569141101FE04

FCC ID	:	2ADRFU1S
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	Mobile Phone
BRAND NAME	:	iRULU
MODEL NAME	:	U1S
CLIENT	:	USA 111 INC
DATE OF ISSUE	:	Dec.04, 2014
STANDARD(S) TEST PROCEDURE(S)	:	FCC Part 15.247 KDB 558074 v03r02
REPORT VERSION	:	V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Dec.04, 2014	Valid	Original Report

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Applicant	USA 111 INC	
Address	191 W. Nationwide Blvd., Ste 300, Columbus, OH 43215	
Manufacturer	Shenzhen Allland Networking Co., Ltd.	
Address	ress Fourth Floor, #B Building, Weiyulong Industrial Park, Xuegang North Road #10 Bantian Street, Longgang District, Shenzhen	
Product Designation	Mobile Phone	
Brand Name	iRULU	
Test Model	U1S	
Date of test	Dec.01, 2014 to Dec.04, 2014	
Deviation	None	
Condition of Test Sample	Normal	
Report Template	AGCRT-US-BGN/RF	

1. VERIFICATION OF CONFORMITY

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with requirement of FCC Part 15 Rules requirement.

Prepared By

Matt Zhang Matt Zhang Dec.04, 2014

Checked By

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Kidd Yang Dec.04, 2014

Authorized By

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Solger Zhang Dec.04, 2014

2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "Mobile Phone". It is designed by way of utilizing the DSSS and OFDM technology to achieve the system operation.

Annajor teorinioar accomption	A major technical description of EOT is described as following			
Operation Frequency	2.412 GHz~2.462GHz			
Output Power	IEEE 802.11b:11.91dBm; IEEE 802.11g:9.86dBm;			
Output Power	IEEE 802.11n(20):9.83dBm; IEEE 802.11n(40):6.84dBm			
Modulation DSSS(DBPSK/DQPSK/CCK);OFDM(BPSK/QPSK/16-QAM/64-QAM)				
Number of channels	11			
Hardware Version	G317 C4 V1.1			
Software Version	G317_C4_F2_U1S_V1.2_S20141030			
Antenna Designation	Integrated Antenna			
Antenna Gain	0.8dBi			
Power Supply	DC3.8V by Built-in Li-ion Battery			

A major technical description of EUT is described as following

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
	1	2412 MHZ
	2	2417 MHZ
	3	2422 MHZ
	4	2427 MHZ
	5	2432 MHZ
2400~2483.5MHZ	6	2437 MHZ
	7	2442 MHZ
	8	2447 MHZ
	9	2452 MHZ
	10	2457 MHZ
	11	2462 MHZ

Note: For 20MHZ bandwidth system use Channel 1 to Channel 11 For 40MHZ bandwidth system use Channel 3 to Channel 9

MCS Index	Nss	Modulation	R	NBPSC	NCBPS		NDI	BPS	Da rate(N 800r	. /
							20MHz	40MHz	20MHz	40MHz
0	1	BPSK	1/2	1	52	108	26	54	6.5	13.5
1	1	QPSK	1/2	2	104	216	52	108	13.0	27.0
2	1	QPSK	3/4	2	104	216	78	162	19.5	40.5
3	1	16-QAM	1/2	4	208	432	104	216	26.0	54.0
4	1	16-QAM	3/4	4	208	432	156	324	39.0	81.0
5	1	64-QAM	2/3	6	312	648	208	432	52.0	108.0
6	1	64-QAM	3/4	6	312	648	234	489	58.5	121.5
7	1	64-QAM	5/6	6	312	648	260	540	65.0	135.0

2.3. IEEE 802.11N MODULATION SCHEME

Symbol	Explanation	
NSS	Number of spatial streams	
R	Code rate	
NBPSC	Number of coded bits per single carrier	
NCBPS	Number of coded bits per symbol	
NDBPS	Number of data bits per symbol	
GI	Guard interval	

2.4. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2ADRFU1S** filing to comply with the FCC Part 15 requirements.

2.5. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.4 (2003). Radiated testing was performed at an antenna to EUT distance 3 meters.

Others testing (listed at item 5.3) was performed according to the procedures in FCC Part 15.247 rules KDB 558074 D01 DTS Meas Guidance v03r02.

2.6. SPECIAL ACCESSORIES

Refer to section 5.2.

2.7. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

3. MEASUREMENT UNCERTAINTY

Conducted measurement: +/- 2.75dB Radiated measurement: +/- 3.2dB

4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION					
1	Low channel TX					
2	Middle channel TX					
3	High channel TX					
4	Normal operating					
Note:	Note:					
Transm	Transmit by 802.11b with Date rate (1/2/5.5/11)					
Transm	Transmit by 802.11g with Date rate (6/9/12/18/24/36/48/54)					
Transm	Transmit by 802.11n (20MHz) with Date rate (6.5/13/19.5/26/39/52/58.5/65)					

Transmit by 802.11n (40MHz) with Date rate

(13.5/27/40.5/54/81/108/121.5/135)

Note:

1. The EUT has been set to operate continuously on the lowest, middle and highest operation frequency Individually, and the eut is operating at its maximum duty cycle>or equal 98%

- 2. All modes under which configure applicable have been tested and the worst mode test data recording in the test report, if no other mode data.
- 3. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure:

EUT	Accessory
-----	-----------

5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Mobile Phone	U1S	FCCID:2ADRFU1S	EUT
2	Adapter	U1S	DC5V / 1000mA	Accessory
3	Battery	U1S	DC3.8V / 1850 mAh	Accessory
4	Earphone	U1S	N/A	Accessory
5	USB Cable	U1S	N/A	Accessory

Note: All the accessories have been used during the test in conduction emission test.

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.247	Peak Output Power	Compliant
§15.247	6 dB Bandwidth	Compliant
§15.247	Conducted Spurious Emission	Compliant
§15.247	Maximum Conducted Output Power SPECTRAL Density	Compliant
§15.209	Radiated Emission	Compliant
§15.247	Band Edges	Compliant
§15.207	Line Conduction Emission	Compliant

Note: The EUT received power from DC3.7V lithium battery.

6. TEST FACILITY

Site	Attestation of Global Compliance (Shenzhen) Co., Ltd		
Location	2/F., Building 2, No.1-No.4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District, Shenzhen, Guangdong, China		
Description	The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2003.		

ALL TEST EQUIPMENT LIST

Description	Manufacturer	Model	Cal. Date	Cal. Due
Power Probe	R&S	NRP-Z23	07/25/2014	07/24/2015
Power Meter	Agilent	N1911A	04/20/2014	04/20/2015
RF attenuator	N/A	RFA20db	N/A	N/A
Spectrum Analyzer	Agilent	E4440A	02/17/2014	02/16/2015
Amplifier	EM	EM30180	02/17/2014	02/16/2015
Horn Antenna	EM	EM-AH-10180	02/17/2014	02/16/2015
Horn Antenna	A.H. Systems Inc.	SAS-574	07/25/2014	07/24/2015
EMI Test Receiver	Rohde & Schwarz	ESCI	07/25/2014	07/24/2015
WIDEBAND REQUENCY ANTENNA	SCHWARZBECK	VULB9168	08/16/2014	08/15/2015
Loop Antenna	A.H.	SAS-526B	05/10/2014	05/09/2015
LISN	R&S	ESH3-Z5	07/25/2014	07/24/2015
Radiation Cable 1	Sat	RE1	06/04/2014	06/03/2015
Radiation Cable 2	Sat	RE2	06/04/2014	06/03/2015
Conduction Cable	Sat	CE1	06/04/2014	06/03/2015

7. PEAK OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

For peak power test:

- 1. Use a direct connection between the antenna port of the transmitter and the power meter, through suitable attenuation
- 2. Set the bandwidth of the power meter is 40MHz
- 3. Record the peak value

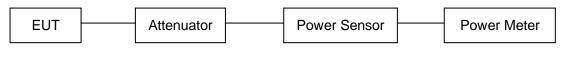
For average power test:

- 1. Connect EUT RF output port to power probe through an RF attenuator.
- 2. Connect the power probe to the PC.
- 3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 4. Record the maximum power from the software.
- 5. The maximum peak power shall be less 1 Watt (30dBm).

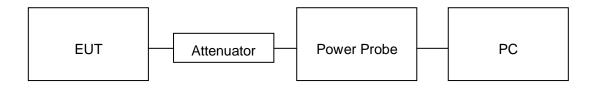
Note : The EUT was tested according to KDB 558074v03r02 for compliance to FCC 47CFR 15.247 requirements.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

PEAK POWER TEST SETUP



AVERAGE POWER SETUP



7.3. LIMITS AND MEASUREMENT RESULT

TEST ITEM	PEAK POWER
TEST MODE	802.11b with data rate 1

LIMITS AND MEASUREMENT RESULT					
Frequency (GHz)	Pass or Fail				
2.412	9.93	11.91	30	Pass	
2.437	9.86	11.84	30	Pass	
2.462	9.83	11.81	30	Pass	

TEST ITEM	PEAK POWER
TEST MODE	802.11g with data rate 6

LIMITS AND MEASUREMENT RESULT					
Frequency (GHz)	Average Power (dBm)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail	
2.412	7.88	9.86	30	Pass	
2.437	7.77	9.75	30	Pass	
2.462	7.69	9.67	30	Pass	

TEST ITEM	PEAK POWER
TEST MODE	802.11n 20 with data rate 6.5

LIMITS AND MEASUREMENT RESULT					
Frequency (GHz)	Pass or Fail				
2.412	7.85	9.83	30	Pass	
2.437	7.73	9.71	30	Pass	
2.462	7.64	9.62	30	Pass	

TEST ITEM	PEAK POWER
TEST MODE	802.11n 40 with data rate 13.5

LIMITS AND MEASUREMENT RESULT					
Frequency (GHz)					
2.422	4.86	6.84	30	Pass	
2.437	4.75	6.73	30	Pass	
2.452	4.57	6.55	30	Pass	

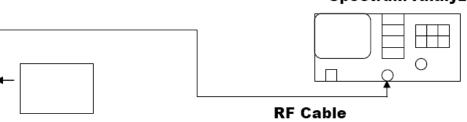
8.6DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW \ge 3×RBW.
- 4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



EUT

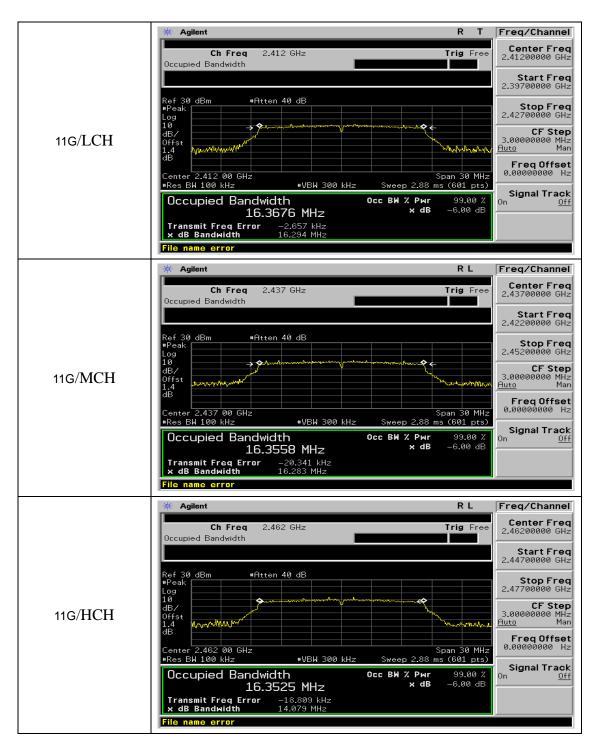
8.3. LIMITS AND MEASUREMENT RESULTS

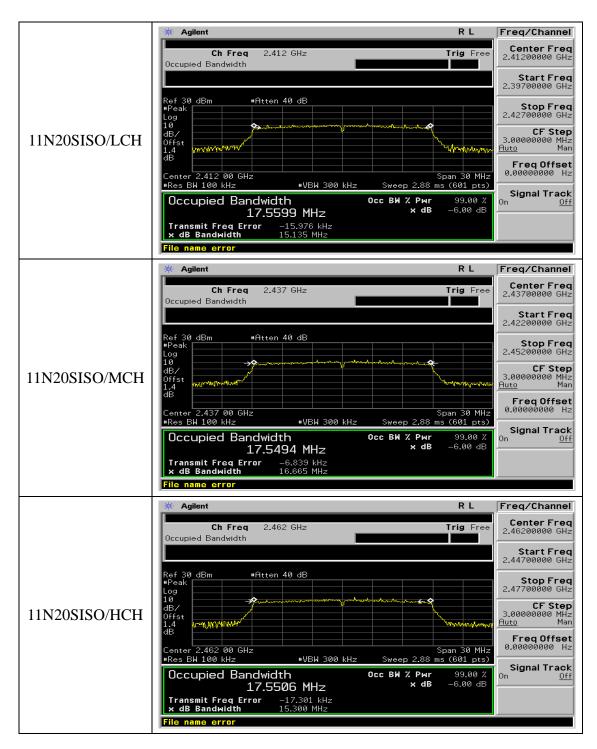
Mode	Channel	6dB Bandwidth [MHz]	OBW [MHz]	Verdict
11B	LCH	10.11	12.87	PASS
11B	MCH	9.59	12.81	PASS
11B	HCH	9.57	12.78	PASS
11G	LCH	16.29	16.37	PASS
11G	MCH	16.28	16.36	PASS
11G	HCH	14.08	16.35	PASS
11N20SISO	LCH	15.14	17.56	PASS
11N20SISO	MCH	16.67	17.55	PASS
11N20SISO	HCH	15.30	17.55	PASS
11N40SISO	LCH	33.99	35.77	PASS
11N40SISO	MCH	35.22	35.82	PASS
11N40SISO	HCH	35.24	35.82	PASS

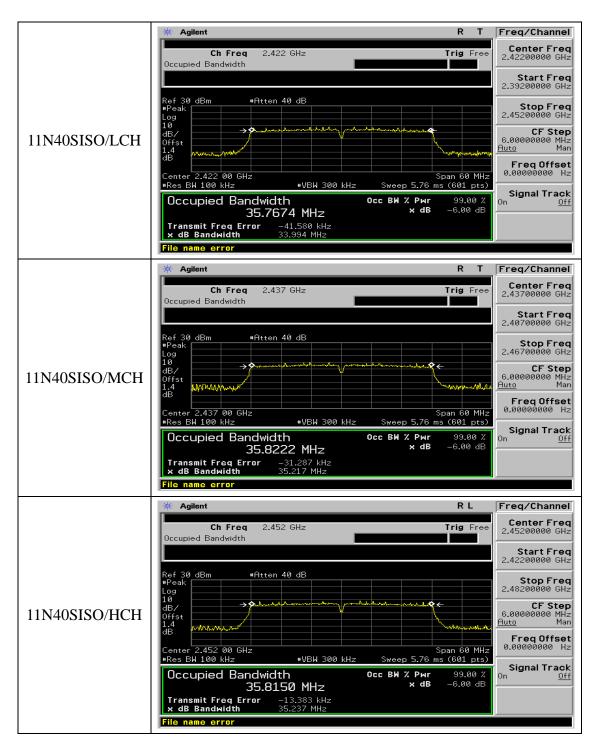
Spectrum Analyzer



Test Graph







9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Trace 1 Max hold, then View.
- Note: The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements. Owing to satisfy the requirements of the number of measurement points, we set the RBW=1MHz, VBW > RBW, scan up through 10th harmonic, and consider the tested results as the worst case, if the tested results conform to the requirement, we can deem that the real tested results(set the RBW=100KHz, VBW > RBW) are conform to the requirement.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

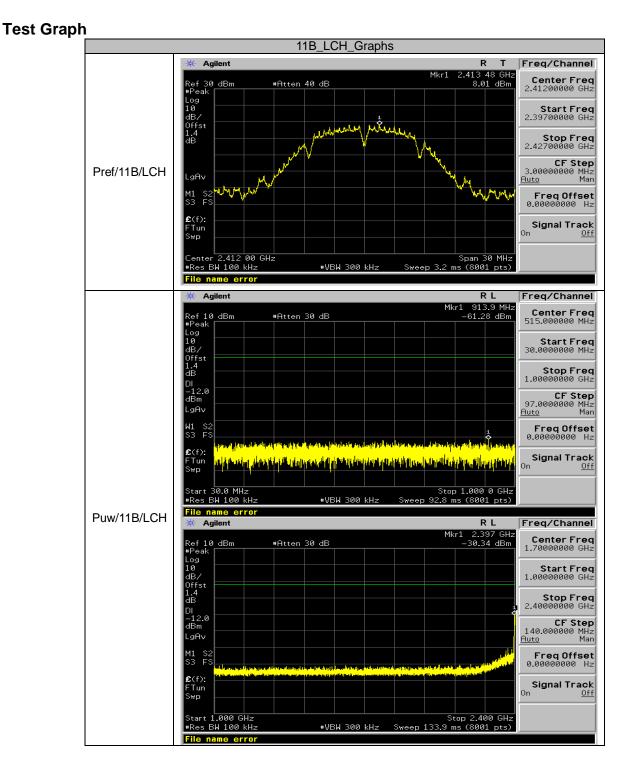
The same as described in section 8.2.

9.3. MEASUREMENT EQUIPMENT USED

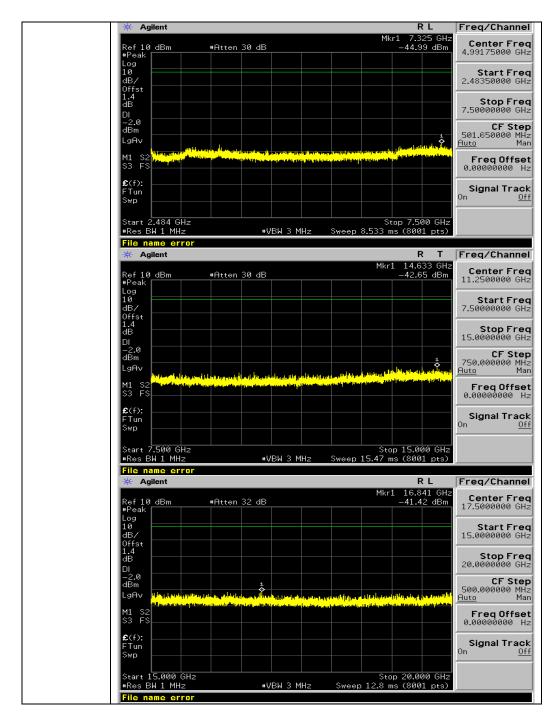
The same as described in section 6.

9.4. LIMITS AND MEASUREMENT RESULT

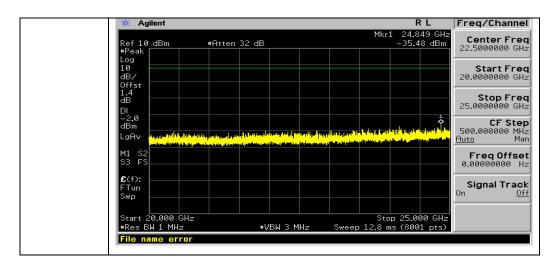
LIMITS AND MEA	SUREMENT RESULT	
Applicable Limite	Measurement Re	sult
Applicable Limits	Test Data	Criteria
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency	At least -20dBc than the limit Specified on the BOTTOM Channel	PASS
power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power. In addition, radiation emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in§15.209(a))	At least -20dBc than the limit Specified on the TOP Channel	PASS

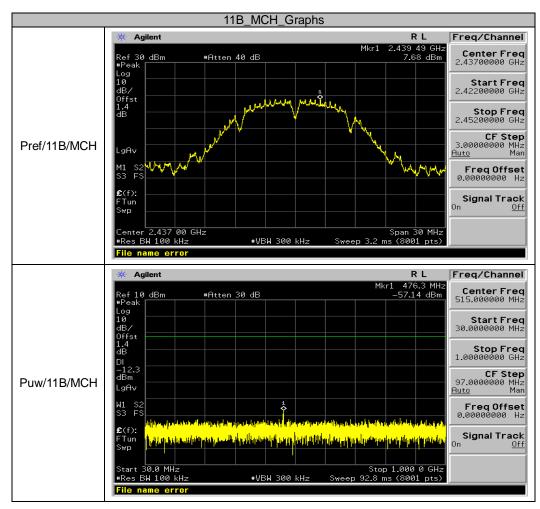


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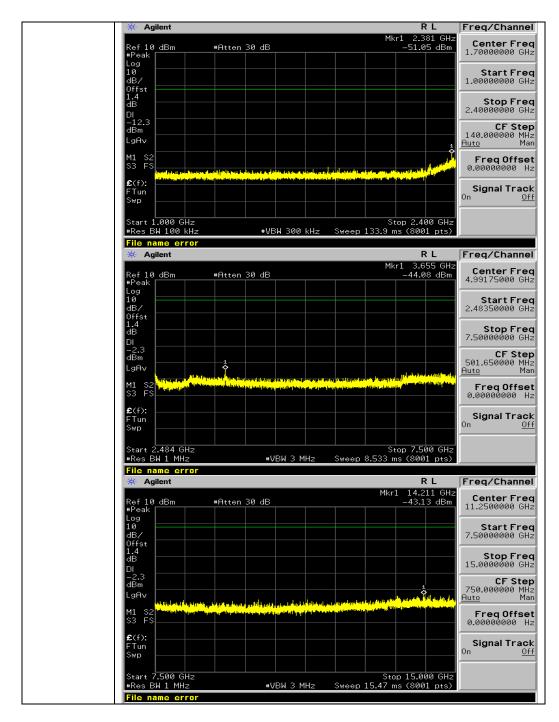


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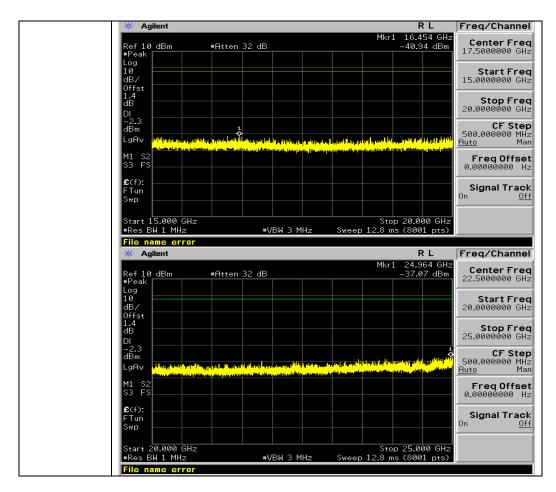


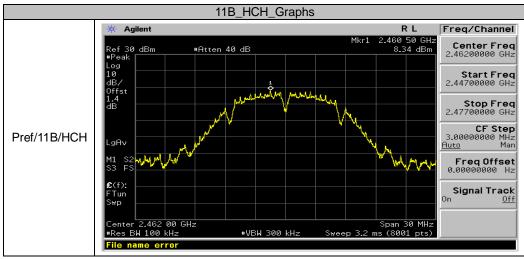


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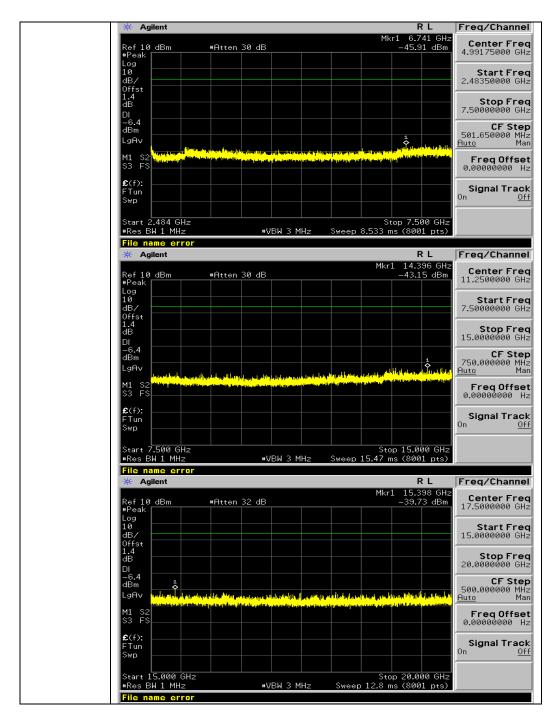
	🔆 Agilent		RL	Freq/Channel
			Mkr1 501.3 MHz	
	Ref 10 dBm #Atten #Peak Log	30 dB	-56.32 dBm	Center Freq 515.000000 MHz
	10 dB/			Start Freq 30.000000 MHz
	0ffst 1.4 dB			Stop Freq
	DI -11.7 dBm			1.00000000 GHz
	LgAv			97.0000000 MHz <u>Auto</u> Man
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			Stop 1.000 0 GHz	
	Start 30.0 MHz #Res BW 100 kHz File name error	#VBW 300 kHz Swee	⇒p 92.8 ms (8001 pts)	
	Agilent		RL	Freq/Channel
	Ref 10 dBm #Atten #Peak	30 dB	Mkr1 2.398 GHz -51.38 dBm	Center Freq 1.70000000 GHz
	Log 10 dB/			Start Freq 1.00000000 GHz
	Offst 1.4 dB DI			Stop Freq 2.40000000 GHz
Puw/11B/HCH	-11.7 dBm LgAv			CF Step 140.000000 MHz <u>Auto</u> Man
	M1 S2 S3 FS	in particular and determined for the second sector (in a line of the second sector sector sector sector sector s		FreqOffset 0.00000000 Hz
	£(f): FTun Swp	n kan ya di kan ya ki jilaku dhe ni tuyaka manay file kata ma		Signal Track ^{On <u>Off</u>}
	Start 1.000 GHz #Res BW 100 kHz	#VBW 300 kHz Sweep	Stop 2.400 GHz 133.9 ms (8001 pts)	
	File name error	*UDM JOO KIIZ JMeep	155.5 ms (0001 pts)	
	🔆 Agilent		R L	Freq/Channel
	Ref 10 dBm #Atten #Peak Log	30 dB	Mkr1 3.692 GHz -42.92 dBm	Center Freq 4.99175000 GHz
	10 dB/ 0ffst			Start Freq 2.48350000 GHz
	1.4 dB DI			Stop Freq 7.50000000 GHz
	-1.7 dBm1			CF Step 501.650000 MHz <u>Auto</u> Man
	M1 S2 S3 FS	ling for the second second Second second		Freq Offset 0.00000000 Hz
	€(f): FTun Swp			Signal Track ^{On <u>Off</u>}
	Start 2.484 GHz		Stop 7.500 GHz	
	#Res BW 1 MHz	#VBW 3 MHz Sweep	5top 7.500 GHz 8.533 ms (8001 pts)	
	File name error			

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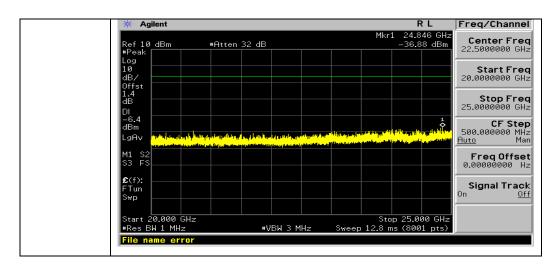
🔆 Agilent			RT	Freq/Channe
Dof 10 dBm	#0+++== 20 dB		Mkr1 14.826 GHz	Center Fre
Ref 10 dBm #Peak	#Atten 30 dB		-43.49 dBm	11.2500000 GH
Log				
10				Start Fre
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dB				Stop Fre 15.0000000 GH
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FTun				Signal Trac On 0
Swp				<u> </u>
Start 7.500 GHz		1.3 MU- C-	Stop 15.000 GHz	
#Res BW 1 MHz		√3 MHz Sweep	15.47 ms (8001 pts)	
File name error			RL	Freq/Chann
			Mkr1 15.450 GHz	ſ
Ref 10 dBm	#Atten 32 dB		-40.88 dBm	Center Fre 17.5000000 G
#Peak Log				
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dB/				15.0000000 G
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-1.7 dBm 1				CF Ste
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\$3 FS				0.00000000
£ (f):				
FTun				Signal Trac On O
Swp				
Start 15.000 GHz		1.3 MU-	Stop 20.000 GHz	
#Res BW 1 MHz		√3 MHz Swee	p 12.8 ms (8001 pts)	
File name error Agilent			R L	Freq/Chann
			Mkr1 24.841 GHz	ſ
Ref 10 dBm #Peak	#Atten 32 dB		-37.88 dBm	22.5000000 G
#Реак Log				
10				Start Fre
				20.0000000 G
dB/				
Offst				
Offst 1.4 dB DI				
0ffst 1.4 dB DI -1.7				25.0000000 GI
0ffst 1.4 dB DI -1.7		i ywang ta a san yw yw yw ar a gal talaa	alien estadan balanda fre reserve a	25.0000000 GI CF Ste 500.000000 MI
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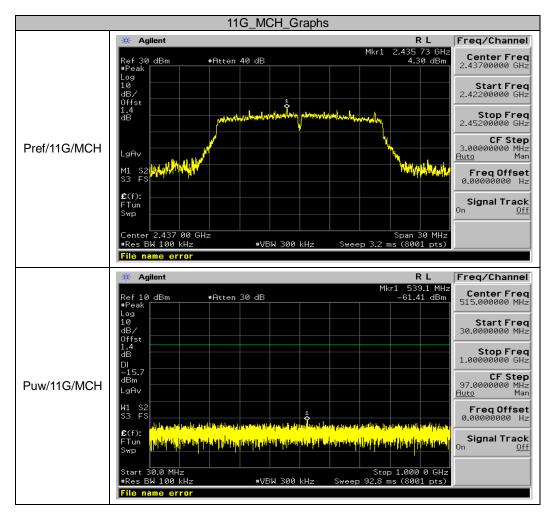
	11G_LCH_Graphs	3
	* Agilent	R L Freq/Channe
Pref/11G/LCH	Ref 30 dBm •Atten 40 dB •Peak	Mkr1 2.413 24 GHz 3.64 dBm 2.41200000 GH 2.3970000 GH 2.3970000 GH 3.64 dBm 5 top Fre 2.4270000 GH 3.00000000 H Greater Fre 3.00000000 H Span 30 MHz Sweep 3.2 ms (8001 pts)
	* Agilent	R L Freq/Channe
	Ref 10 dBm #Atten 30 dB #Peak Log	Mkr1 382.4 MHz -60.63 dBm 515.000000 MH
	10 dB/ 0ffst 1.4	Start Fre 30.0000000 MH
	dB DI -16.4	Stop Fre 1.0000000 GH
	dBm	97.0000000 MH <u>Auto</u> Ma
	H1 S2 S3 FS £(f):	ี่ Freq Offse ข <mark>ึ^{้น}ตาลาให้สูงสุดที่นี่ (เตาสู่และให้เลยไม่อยู่)</mark>
		Call the state of the second state of the seco
	Start 30.0 MHz •Res BW 100 kHz •VBW 300 kHz File name error	Stop 1.000 0 GHz Sweep 92.8 ms (8001 pts)
Puw/11G/LCH	· Agilent	R L Freq/Channe
	Ref 10 dBm #Atten 30 dB #Peak Log	Mkr1 2.399 GHz -32.43 dBm 1.70000000 GH
	10 dB/ Offst	Start Fre 1.0000000 GH
	1.4 dB Dl -16.4	Stop Fre 2.4000000 GH
	dBm	CF Ste 140.000000 MH <u>Auto</u> Ma
	M1 S2 S3 FS alating long kindle on given at the second big of this is the second second second second second second second	
	£(f): FTun Swp	On On
	Start 1.000 GHz #Res BW 100 kHz #VBW 300 kHz File name error	Stop 2.400 GHz Sweep 133.9 ms (8001 pts)

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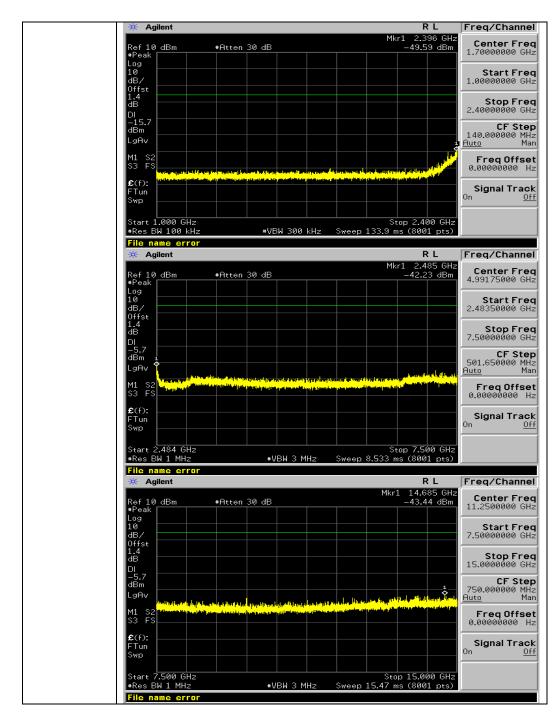


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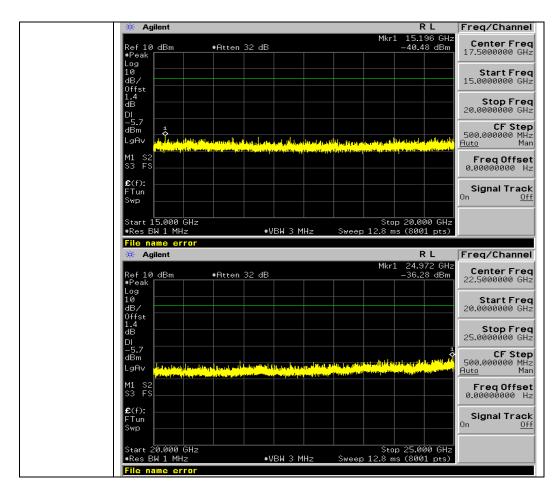


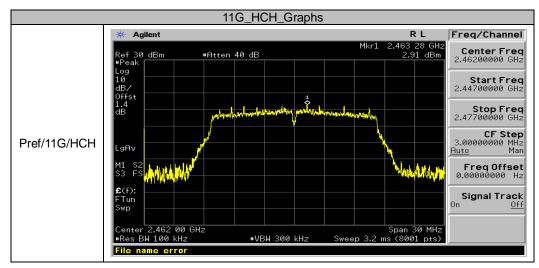


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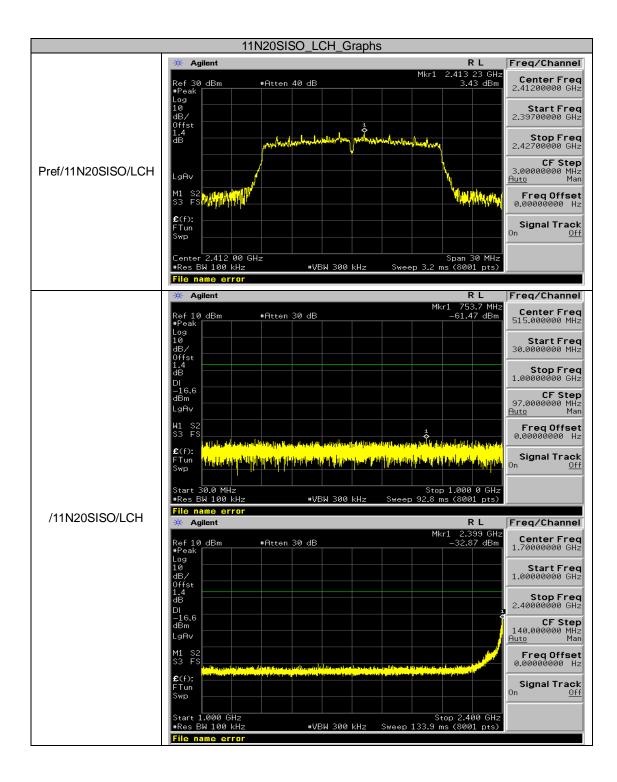


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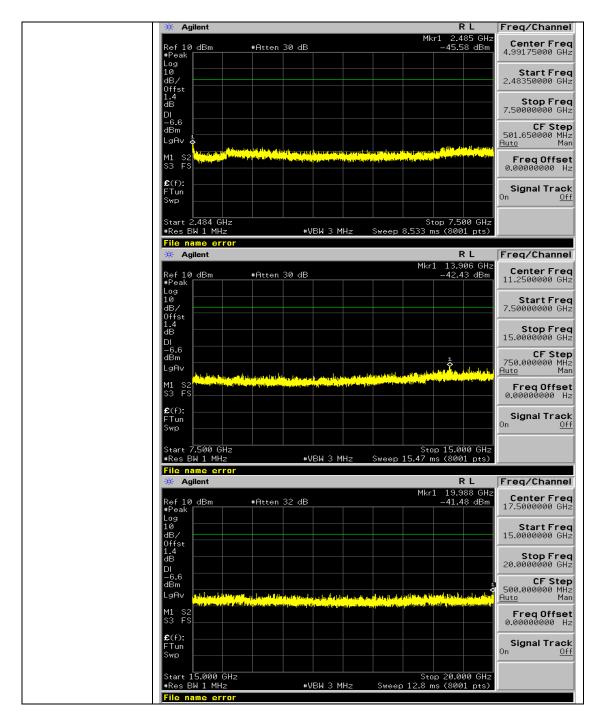
	- Agilent			RL	Freq/Channel
	Ref 10 dBm #Peak	#Atten 30 dB		1kr1 582.7 MHz -60.67 dBm	Center Freq 515.000000 MHz
	Log 10 dB/				Start Freq 30.0000000 MHz
	0ffst 1.4 dB				Stop Freq 1.00000000 GHz
	DI -17.1 dBm				CF Step 97.000000 MHz
	LgAv W1 S2 S3 FS		1		<u>Auto</u> Man Freq Offset
	C(f): Introduction	a the approximate and a start the other	1. I.		0.00000000 Hz Signal Track
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	Start 30.0 MHz #Res BW 100 kHz	#VBW 300		op 1.000 0 GHz ms (8001 pts)	
	File name error			RL	Freq/Channel
	Ref 10 dBm #Peak	#Atten 30 dB	M	1kr1 2.382 GHz -50.89 dBm	Center Freq 1.70000000 GHz
	Log 10 dB/				Start Freq 1.00000000 GHz
	0ffst 1.4 dB DI				Stop Freq 2.40000000 GHz
Puw/11G/HCH	-17.1 dBm LgAv				CF Step 140.000000 MHz Auto Man
	M1 S2 S3 FS	مر با معرف المركز ال	d		Freq Offset 0.00000000 Hz
	£(f): FTun Swp	the second se			Signal Track On <u>Off</u>
	Start 1.000 GHz			Stop 2.400 GHz	
	*Res BW 100 kHz File name error	#VBW 300) kHz Sweep 133.9	ms (8001 pts)	Energy (Observed)
	🔆 Agilent		4	R L 1kr1 2.484 GHz	Freq/Channel Center Freq
	Ref 10 dBm #Peak Log	#Atten 30 dB		-30.48 dBm	4.99175000 GHz
	10 dB/ Offst				Start Freq 2.48350000 GHz
	1.4 dB DI &				Stop Freq 7.50000000 GHz
	-7.1 dBm LgAv				CF Step 501.650000 MHz Auto Man
	M1 S2 S3 FS		n fe ger gelete program i gibble en internetitet gibbe dit Still generation i specie program geleter internetion f	a de la constata de Constata de la constata de la constat Constata de la constata de la consta	Freq Offset 0.00000000 Hz
	€(f): FTun Swp				Signal Track On <u>Off</u>
	Start 2.484 GHz			Stop 7.500 GHz	
	#Res BW 1 MHz File name error	#VBW 3	MHz Sweep 8.533	ms (8001 pts)	

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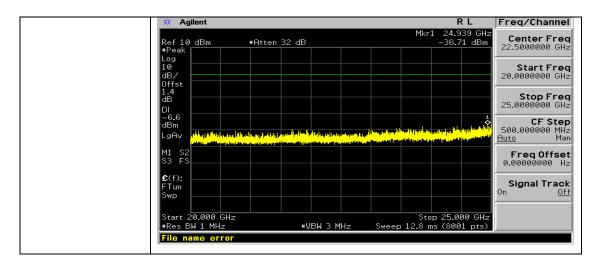
🔆 Agilent			RL	Freq/Chan
Dof 10 dBm	#0+++== 20 dB		Mkr1 13.953 GHz	Center F
Ref 10 dBm #Peak	#Atten 30 dB		-43.54 dBm	11.2500000
.og				
10 1B/				Start Fi
ffst				7.50000000
.4 B				Stop Fi
1B				15.0000000
-7.1				
dBm			1	CF S 750.000000
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53 FS				0.00000000
x(0).				
£(f):				Signal Tra
wp				On
Start 7.500 GHz			Stop 15.000 GHz	
#Res BW 1 MHz		3 MHz Sweep 15	5.47 ms (8001 pts)	
File name error				
🔆 Agilent			R L	Freq/Chan
Ref 10 dBm	#Atten 32 dB		Mkr1 19.948 GHz -41.03 dBm	Center F
•Peak				17.5000000
Log 10				Stort E
				Start F 15.0000000
Offst 🛛 🚽				
1.4 dB				Stop F
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dBm	li da		1 •	500.000000
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dBm LgAv <mark>heptendele</mark>	stradag ung matang kelang di kenya di tang ta Managa ung matang kelang kelang di kelang di tang ta	Appellin on the trebally posterial of the birds on a compared to the product of the birds of th		500.000000 <u>Auto</u> Freg Off
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dBm Implementation LgAv Implementation M1 S2 S3 FS £(f): FTun Swp Start 15.000 GH;	2 State in the state of the		Stop 20.000 GHz 2.8 ms (8001 pts)	500.000000 <u>Auto</u> Freq Off 0.00000000 Signal Tra
dBm LgAV tributed (20) M1 S2 S3 FS £(f): FTun Swp	2 ************************************		Stop 20.000 GHz	500.000000 <u>Auto</u> Freq Off 0.00000000 Signal Tra
dBm LgAv M1 S2 S3 FS £(f): FTun Swp Start 15.000 GH: #Res BW 1 MHz	2 ************************************		Stop 20.000 GHz 2.8 ms (8001 pts)	500.000000 Auto Freq Off 0.00000000 Signal Tra On
dBm LgAv M1 \$2 \$3 F\$ €(f): FTun Swp Start 15.000 GH: ■Res BW 1 MHz File name error ※ Agilent	**************************************		Stop 20.000 GHz 2.2.8 ms (8001 pts) R L Mkr1 24.882 GHz	500.000000 Auto Freq Off 0.00000000 Signal Tr. On
dBm LgRv M1 S2 S3 FS €(f): FTun Swp Start 15.000 GH: #Res BW 1 MHz File name error ※ Agilent Ref 10 dBm	2 ************************************		Stop 20.000 GHz 2.8 ms (8001 pts)	500.000000 Auto Freq Off 0.00000000 Signal Tr On Freq/Char Center F
dBm LgA∨ M1 S2 S3 FS £(f): FTun Swp Start 15.000 GH: #Res BW 1 MHz File name error ★ Agilent Ref 10 dBm ■Peak	**************************************		Stop 20.000 GHz 2.2.8 ms (8001 pts) R L Mkr1 24.882 GHz	500.000000 Auto Freq Off 0.00000000 Signal Tra On Freq/Chan Center F
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dBm LgAv M1 S2 S3 FS €(f): FTun Swp Start 15.000 GH: #Res BW 1 MHz #Res BW 1 MHz File name error ※ Agilent Ref 10 dBm ■Peak Log 10 dB/	**************************************		Stop 20.000 GHz 2.2.8 ms (8001 pts) R L Mkr1 24.882 GHz	500.000000 Auto Freq Off 0.00000000 Signal Tr On Freq/Chan Center F 22.5000000 Start F
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dBm LgAv LgAv LgAv LgAv LgAv LgAv LgAv LgAv	<pre>*Press in the state of the</pre>	3 MHz Sweep 1	Stop 20,000 GHz 2.3 ms (8001 pts) Mkr1 24.882 GHz 36.54 dBm	500.000000 <u>Auto</u> Freq Off 0.00000000 Signal Tr: On Freq/Chan Center Fl 22.5000000 Start Fl 20.0000000 Stop Fl 25.0000000 CF S
dBm	*Atten 32 dB	3 MHz Sweep 1	Stop 20.000 GHz 2.3 ms (8001 pts) R L Mkr1 24.882 GHz -36.54 dBm	Freq Off 0.00000000 Signal Tra On Freq/Chan Center Fr 22.5000000 Start Fl 20.000000 Stop Fr 25.0000000 Stop Stop Start Stop Stop Stop Stop Stop Stop Stop Sto
dBm	<pre>*Press in the state of the</pre>	3 MHz Sweep 1	Stop 20.000 GHz 2.3 ms (8001 pts) R L Mkr1 24.882 GHz -36.54 dBm	500.000000 <u>Auto</u> Freq Off 0.00000000 Signal Tri On Freq/Chan Center Fr 22.5000000 Start Fr 20.0000000 Stop Fr 25.0000000 CF S 500.000000 <u>Auto</u>
dBm LgAv LgAv LgAv LgAv LgAv LgAv LgAv LgAv	*Atten 32 dB	3 MHz Sweep 1	Stop 20.000 GHz 2.3 ms (8001 pts) R L Mkr1 24.882 GHz -36.54 dBm	500.000000 <u>Auto</u> Freq Off 0.000000000 Signal Tr On Freq/Chan Center F 22.5000000 Start F 20.0000000 Stop F 25.0000000 Stop F 25.0000000 Stop S 500.000000 Freq Off Freq Off
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dBm LgAv bejordergiften LgAv bejordergiften bejordergiften M1 S2 S3 FS - S3 FS - - £(f): FTun - Start 15.0000 GH: + + +Res BW 1 MHz File name error - ★ Agilent - - Ref 10 dBm + - +Peak - - Log - - 10 - - 0ffst - - 1.4 - - JBm - - LgAv + - S3 FS - - £(f): - -	*Atten 32 dB	3 MHz Sweep 1	Stop 20.000 GHz 2.3 ms (8001 pts) R L Mkr1 24.882 GHz -36.54 dBm	500.000000 <u>Auto</u> Freq Off 0.00000000 Signal Tr On Freq/Chan Center F 22.5000000 Start F 25.0000000 Stop F 25.0000000 CF S 500.0000000 <u>Auto</u> Freq Off 0.00000000
dBm	*Atten 32 dB	3 MHz Sweep 1	Stop 20.000 GHz 2.3 ms (8001 pts) R L Mkr1 24.882 GHz -36.54 dBm	500.000000 <u>Auto</u> Freq Off 0.00000000 Signal Tra On Freq/Chan Center Fr 22.5000000 Start Fr 20.0000000 Stop Fr 25.0000000 CF S 500.0000000 <u>Freq Off</u> 0.00000000
dBm	*Atten 32 dB	3 MHz Sweep 1	Stop 20.000 GHz 2.3 ms (8001 pts) R L Mkr1 24.882 GHz -36.54 dBm	500.000000 <u>Auto</u> Freq Off 0.000000000 Signal Tr On Freq/Char Center F 22.5000000 Start F 20.0000000 Stop F 25.0000000 Stop F 25.0000000 Stop CF S 500.000000 <u>Auto</u> Freq Off 0.00000000 Signal Tr
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dBm	*Atten 32 dB *Atten 32 dB	3 MHz Sweep 1	Stop 20.000 GHz 2.3 ms (8001 pts) R L Mkr1 24.882 GHz -36.54 dBm	500.000000 <u>Auto</u> Freq Off 0.00000000 Signal Tr On Freq/Chan Center F 22.5000000 Start F 20.0000000 Stop F 25.0000000 Stop F 25.0000000 Stop F 25.0000000 Stop CF S 500.000000 Stop S Stop S Sto

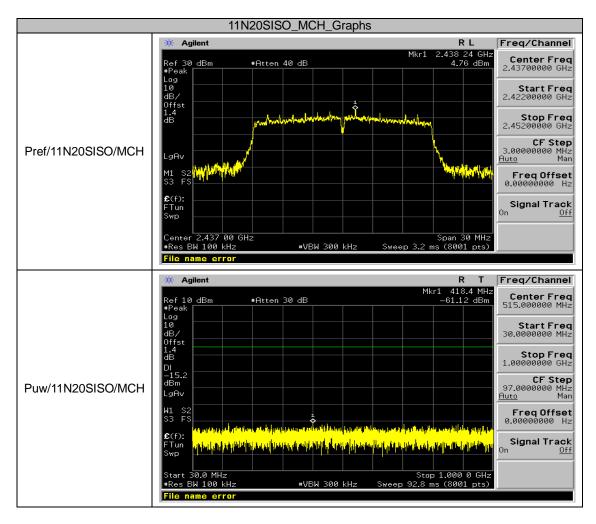


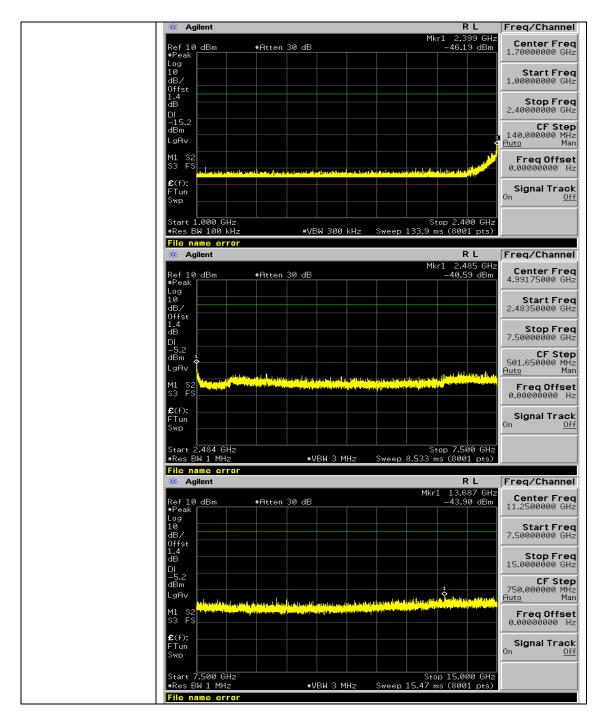
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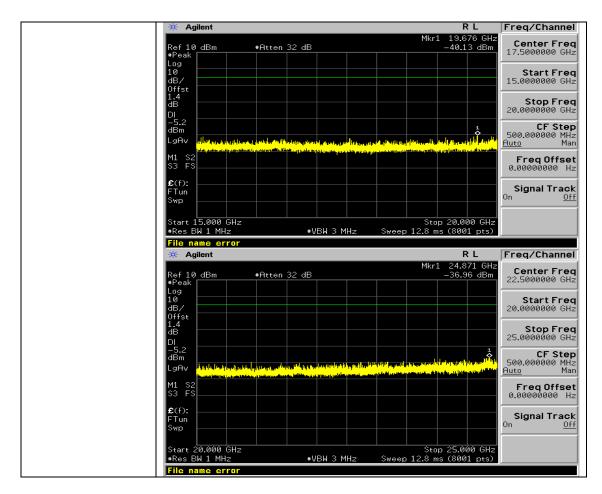
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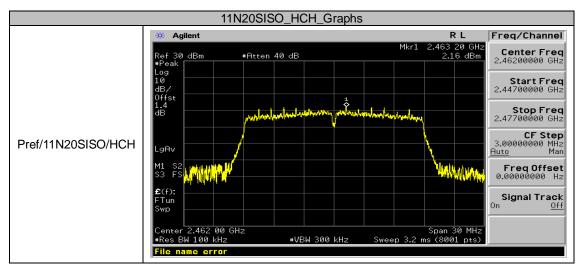


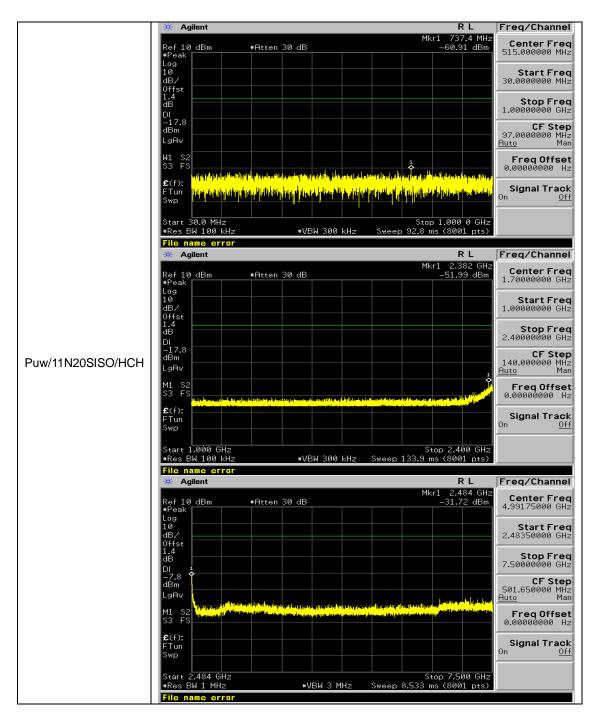




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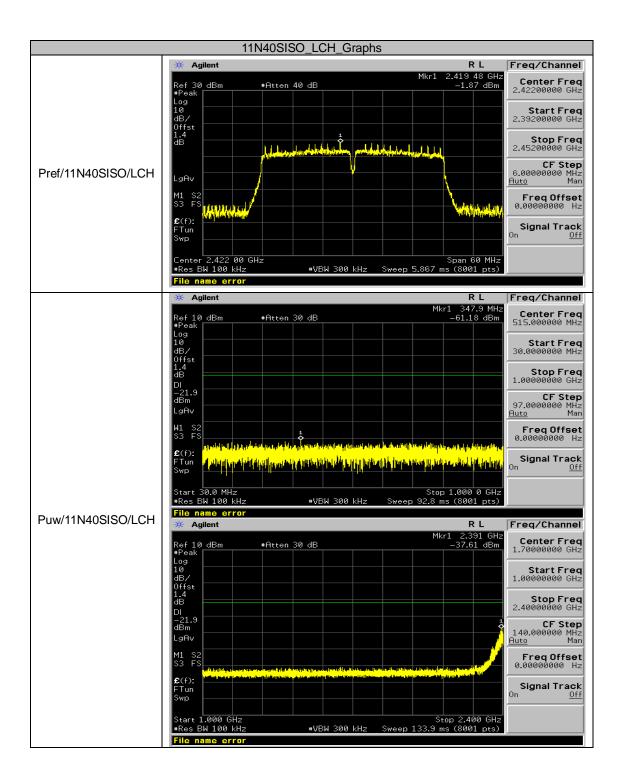




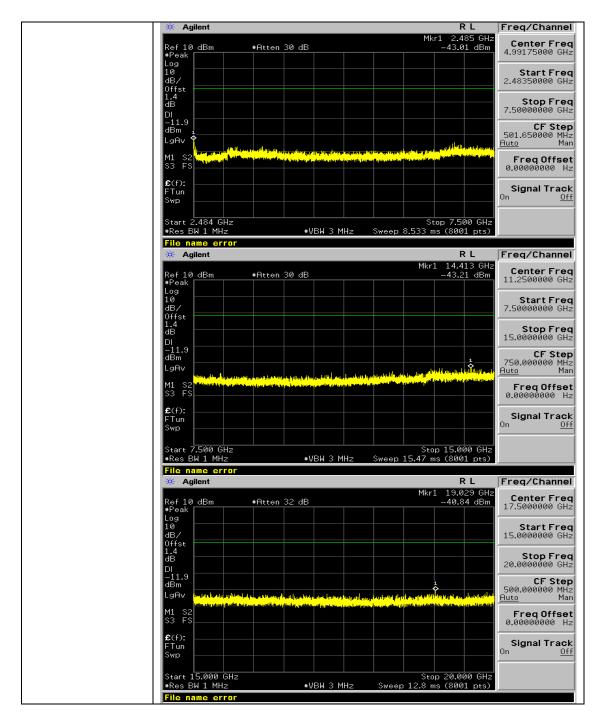


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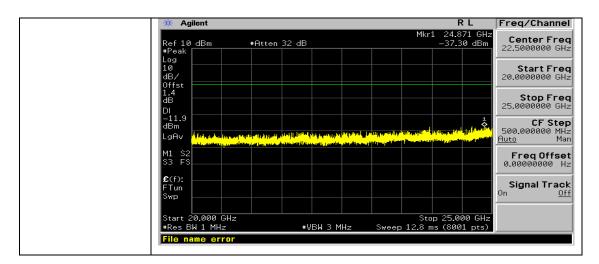
🔆 Agilent			RL	Freq/Channel
Ref 10 dBm •Peak	#Atten 30 dB		Mkr1 14.397 GHz -43.41 dBm	Center Freq 11.2500000 GHz
Log 10 dB/				Start Freq 7.50000000 GHz
Offst 1.4 dB				Stop Freq 15.0000000 GHz
DI -7.8 dBm LgAv			1	CF Step 750.000000 MHz
M1 S2 S3 FS				Auto Man Freq Offset
£ (f):				0.00000000 Hz Signal Track
FTun Swp				0n <u>Off</u>
Start 7.500 GHz #Res BW 1 MHz	#VBI	13 MHz Swee	Stop 15.000 GHz p 15.47 ms (8001 pts)	
File name error			R L	Freq/Channel
Ref 10 dBm #Peak	#Atten 32 dB		Mkr1 19.294 GHz -41.69 dBm	Center Freq 17.5000000 GHz
Log 10 dB/				Start Freq 15.0000000 GHz
Offst 1.4 dB DI				Stop Freq 20.0000000 GHz
-7.8 dBm	at play to a table and a spatiant of party of	و بر هم المحالي المحالية المح		CF Step 500.000000 MHz Auto Man
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£(f): FTun Swp				Signal Track ^{On <u>Off</u>}
Start 15.000 GHz			Stop 20.000 GHz	
#Res BW 1 MHz File name error	#VB1	∖3 MHz Swe	ep 12.8 ms (8001 pts)	
🔆 Agilent			R L Mkr1 24.943 GHz	Freq/Channel
Ref 10 dBm #Peak Log	#Atten 32 dB		-35.58 dBm	Center Freq 22.5000000 GHz
10 dB/ 0ffst				Start Freq 20.0000000 GHz
1.4 dB DI				Stop Freq 25.0000000 GHz
-7.8 dBm Loev Mandual		The state of the s		CF Step 500.000000 MHz Auto Man
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Swp Start 20.000 GHz			Stop 25.000 GHz	
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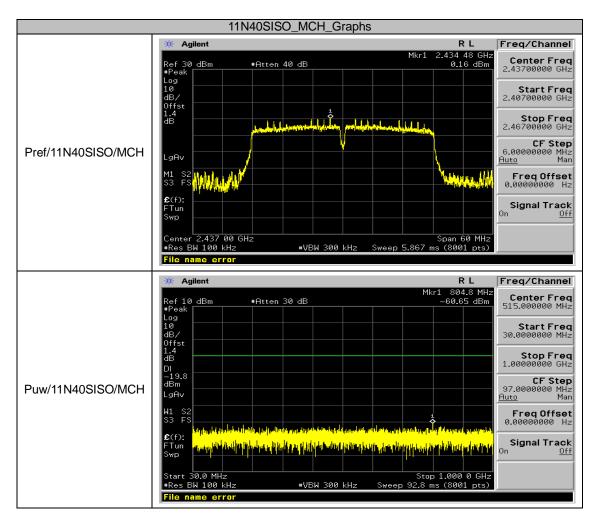


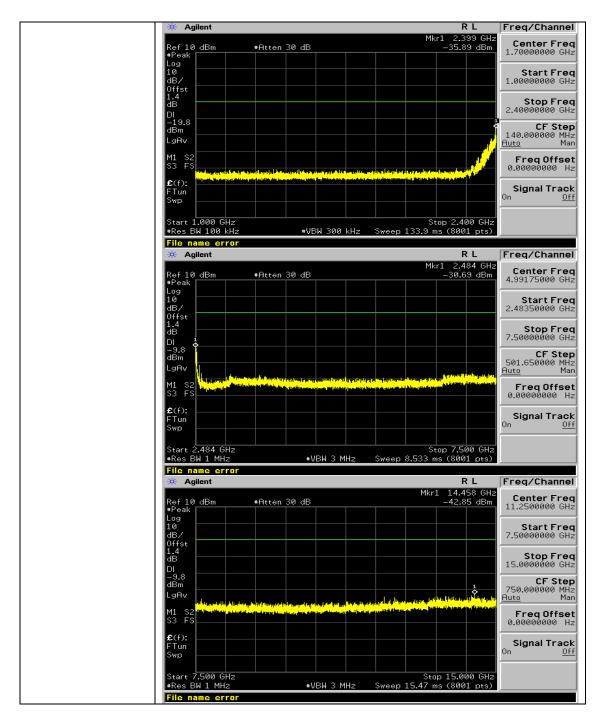
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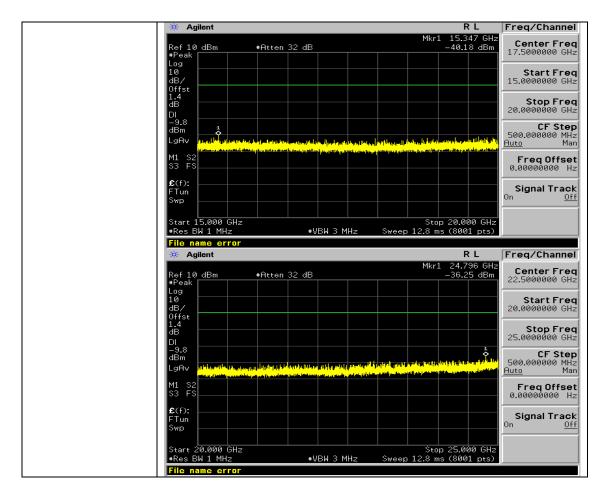
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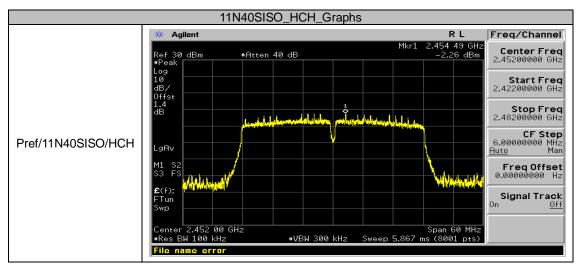


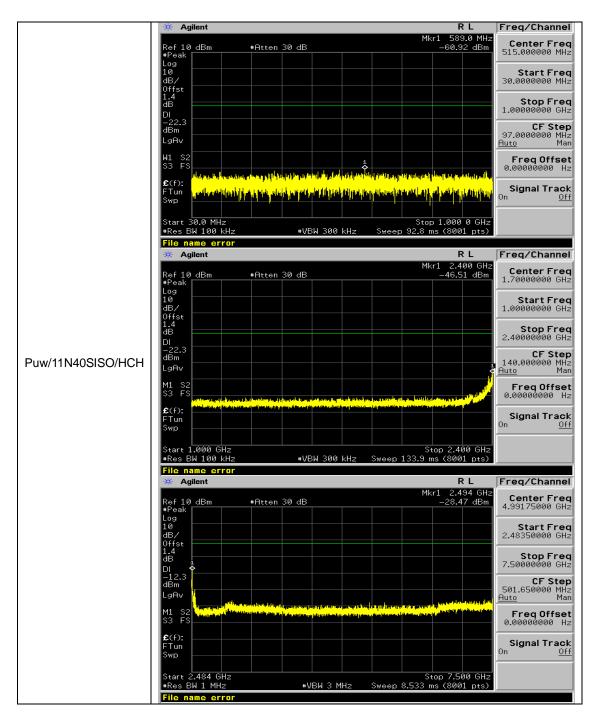




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🔆 Agilent		RL	Freq/Channel
Ref 10 dBm ⊎Peak	#Atten 30 dB	Mkr1 14.122 GHz -43.15 dBm	Center Freq 11.2500000 GHz
Log 10 dB/			Start Freq 7.5000000 GHz
0ffst 1.4 dB			Stop Freq 15.000000 GHz
DI -12.3 dBm			CF Step 750.000000 MHz
M1 S2 Mail of Stand June 1			Auto Man Freq Offset
\$3 FS			0.00000000 Hz Signal Track
FTun Swp			On <u>Off</u>
Start 7.500 GHz #Res BW 1 MHz	#VBW 3 MH	Stop 15.000 GHz z Sweep 15.47 ms (8001 pts)	
File name error		R L	Freq/Channel
Ref 10 dBm •Peak	#Atten 32 dB	Mkr1 16.862 GHz -41.57 dBm	Center Freq 17.5000000 GHz
Log 10 dB/ Offst			Start Freq 15.0000000 GHz
1.4 dB DI			Stop Freq 20.0000000 GHz
-12.3 dBm LgAv <mark>http://www.pp.co</mark>	ما مراني مراني مراني ما مراني ما يو مراني	an a line part of the line for the law of the line of the line part of the line of the line part of the line	CF Step 500.000000 MHz Auto Man
M1 S2 S3 FS		and a few property of the second s	FreqOffset 0.00000000 Hz
£(f): FTun Swp			Signal Track ^{On <u>Off</u>}
Start 15.000 GHz		Stop 20.000 GHz	
#Res BW 1 MHz File name error	#VBW 3 MH:		
🔆 Agilent		R L Mkr1 24.783 GHz	Freq/Channel
Ref 10 dBm #Peak Log	#Atten 32 dB	-37.45 dBm	Center Freq 22.5000000 GHz
10 dB/ Offst			Start Freq 20.0000000 GHz
1.4 dB DI			Stop Freq 25.0000000 GHz
-12.3 dBm LgAv <mark>an substitute</mark>	er bie forstisket fransjoner og stere forster beser til er til som		CF Step 500.000000 MHz <u>Auto</u> Man
M1 S2 S3 FS	na provinski produktivni stati na provinski se se provinski provinski provinski provinski provinski provinski p Na provinski		FreqOffset 0.00000000 Hz
£(f): FTun Swp			Signal Track ^{On <u>Off</u>}
Swp Start 20.000 GHz		Stop 25.000 GHz	
#Res BW 1 MHz File name error	#VBW 3 MH:	z Sweep 12.8 ms (8001 pts)	

10. MAXIMUM CONDUCTED OUTPUT PEAK POWER SPECTRAL DENSITY 10.1 MEASUREMENT PROCEDURE

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the KDB 558074 item 10.2 was used in this testing.

10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

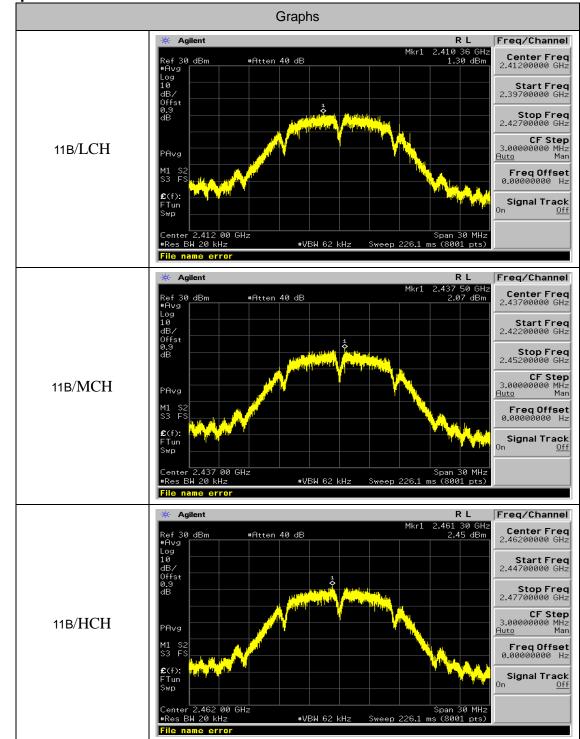
Refer To Section 8.2.

10.3 MEASUREMENT EQUIPMENT USED

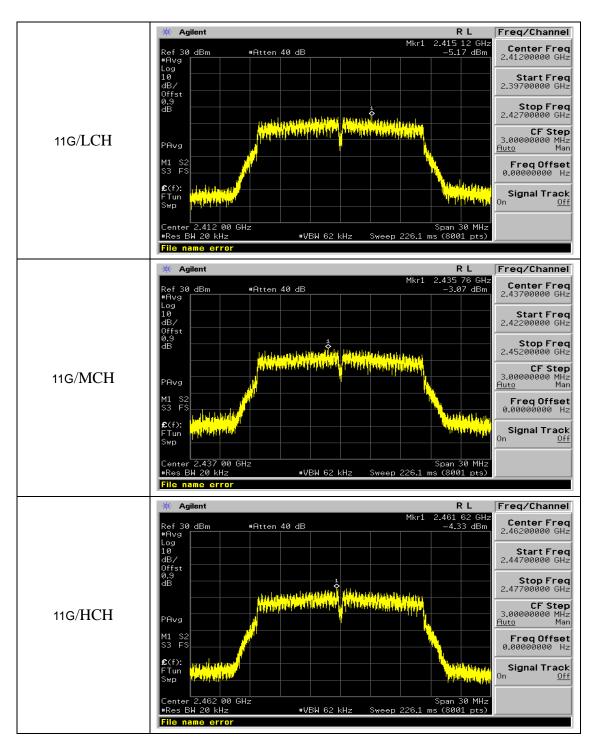
Refer To Section 6.

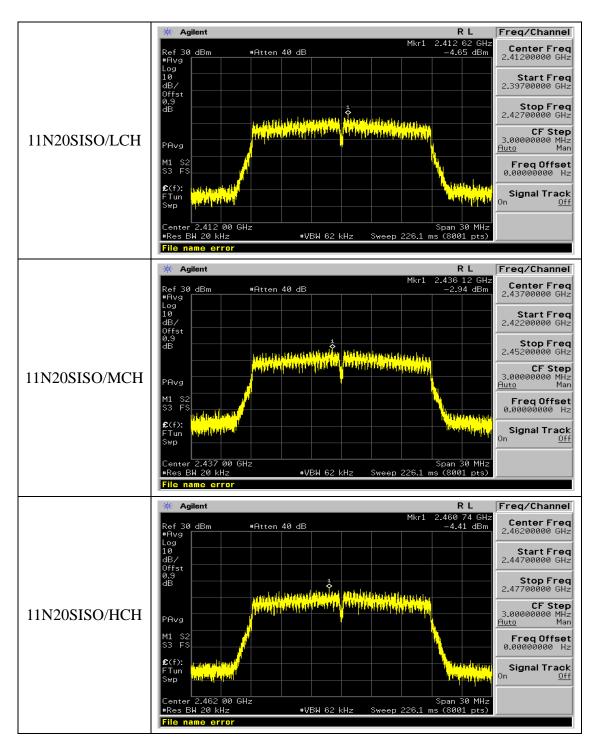
10.4 LIMITS AND MEASUREMENT RESULT

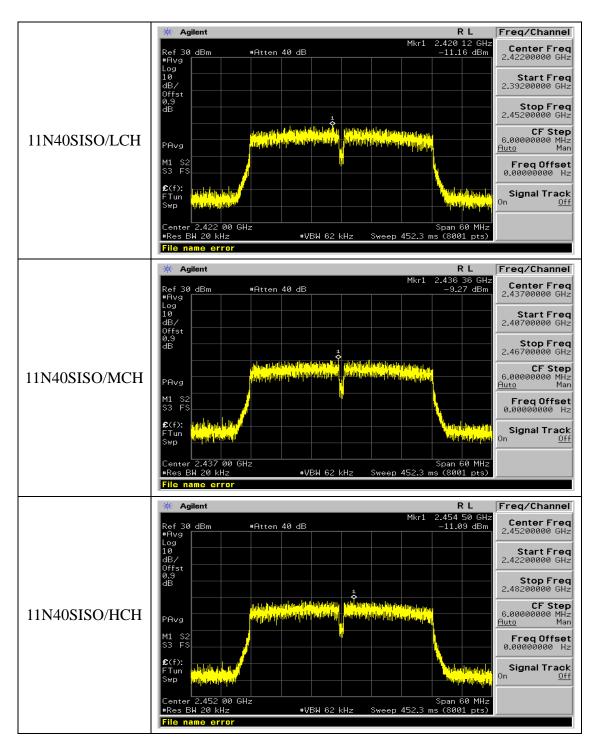
Mode	Channel	Meas.Level [dBm]	Av.PSD [dBm]	Limit[dBm/3kHz]	Verdict
11B	LCH	1.3	1.387	8	PASS
11B	MCH	2.07	2.157	8	PASS
11B	HCH	2.45	2.537	8	PASS
11G	LCH	-5.17	-4.655	8	PASS
11G	MCH	-3.07	-2.555	8	PASS
11G	HCH	-4.33	-3.807	8	PASS
11N20SISO	LCH	-4.65	-4.092	8	PASS
11N20SISO	MCH	-2.94	-2.39	8	PASS
11N20SISO	HCH	-4.41	-3.86	8	PASS
11N40SISO	LCH	-11.16	-10.113	8	PASS
11N40SISO	MCH	-9.28	-8.236	8	PASS
11N40SISO	HCH	-11.09	-10.046	8	PASS



Test Graph







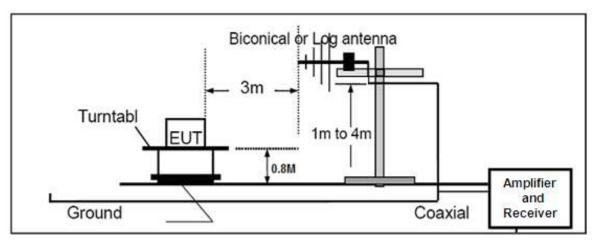
11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

- 1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8.If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

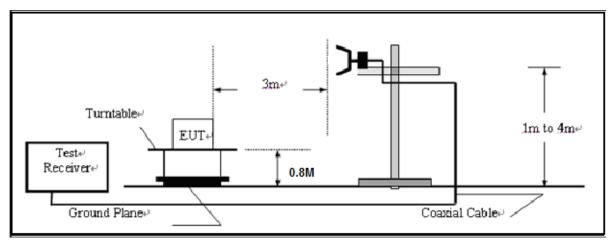
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

11.2. TEST SETUP



RADIATED EMISSION TEST SETUP 30MHz-1000MHz





11.3. LIMITS AND MEASUREMENT RESULT

15.209(a) Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (micorvolts/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

Note: All modes were tested For restricted band radiated emission,

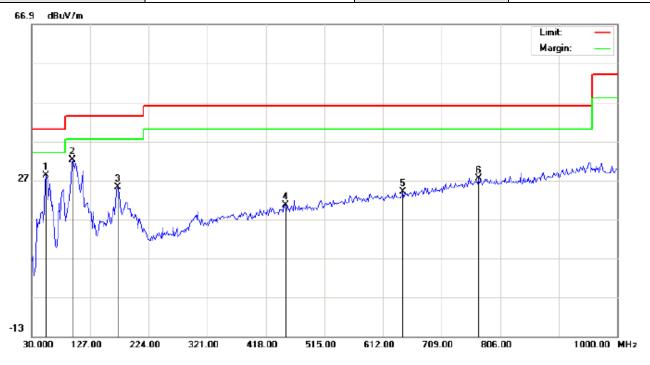
the test records reported below are the worst result compared to other modes.

11.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

EUT	Mobile Phone	Model Name	U1S
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Horizontal

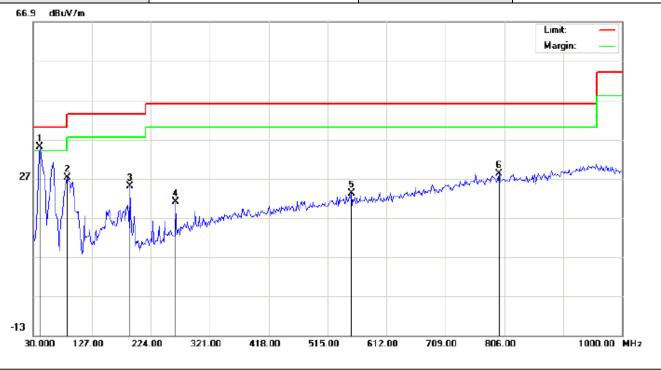


Site: site #1 Limit: FCC Class B 3M Radiation EUT: Mobile Phone M/N: U1S Mode: Low Channel TX Note: Polarization: *Horizontal* Power: AC 120V/60Hz Distance: 3m Temperature: 26 Humidity: 60 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	•	MHz	dBu∨	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1		54.2500	17.00	11.20	28.20	40.00	-11.80	peak			
2	*	97.9000	21.91	10.25	32.16	43.50	-11.34	peak			
3		172.2667	12.55	12.72	25.27	43.50	-18.23	peak			
4		450.3333	-0.02	20.59	20.57	46.00	-25.43	peak			
5		644.3333	0.16	23.84	24.00	46.00	-22.00	peak			
6		770.4333	0.42	26.91	27.33	46.00	-18.67	peak			

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EUT	Mobile Phone	Model Name	U1S
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Vertical

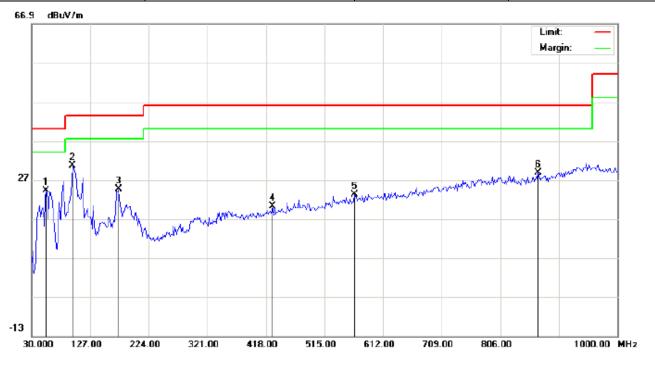


Site: site #1 Limit: FCC Class B 3M Radiation EUT: Mobile Phone M/N: U1S Mode: Low Channel TX Note: Polarization: Vertical Power: AC 120V/60Hz Distance: 3m Temperature: 26 Humidity: 60 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	41.3167	26.12	8.81	34.93	40.00	-5.07	peak			
2		86.5833	22.95	4.16	27.11	40.00	-12.89	peak			
3		190.0500	13.50	11.52	25.02	43.50	-18.48	peak			
4		264.4166	6.64	14.34	20.98	46.00	-25.02	peak			
5		553.8000	0.64	22.50	23.14	46.00	-22.86	peak			
6		797.9167	0.88	27.29	28.17	46.00	-17.83	peak			

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EUT	Mobile Phone	Model Name	U1S
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2437MHZ	Antenna	Horizontal

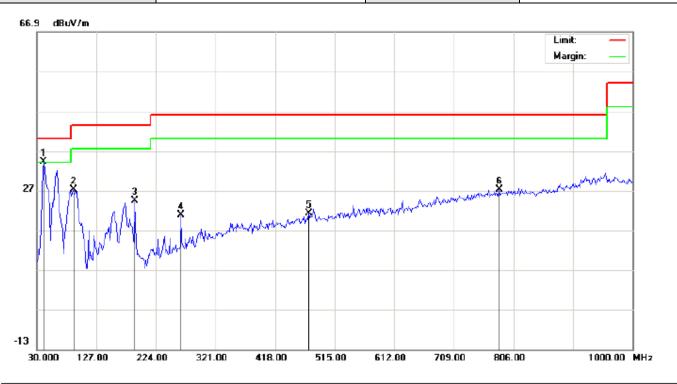


Site: site #1 Limit: FCC Class B 3M Radiation EUT: Mobile Phone M/N: U1S Mode: Middle Channel TX Note: Polarization: *Horizontal* Power: AC 120V/60Hz Distance: 3m Temperature: 26 Humidity: 60 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1		54.2500	13.02	11.20	24.22	40.00	-15.78	peak			
2	*	97.9000	20.28	10.25	30.53	43.50	-12.97	peak			
3		173.8833	12.20	12.37	24.57	43.50	-18.93	peak			
4		429.3167	0.17	19.96	20.13	46.00	-25.87	peak			
5		565.1167	0.39	22.86	23.25	46.00	-22.75	peak			
6		869.0500	0.93	27.81	28.74	46.00	-17.26	peak			

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EUT	Mobile Phone	Model Name	U1S
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2437MHZ	Antenna	Vertical



Site: site #1 Limit: FCC Class B 3M Radiation EUT: Mobile Phone M/N: U1S Mode: Middle Channel TX Note: Polarization: Vertical Power: AC 120V/60Hz

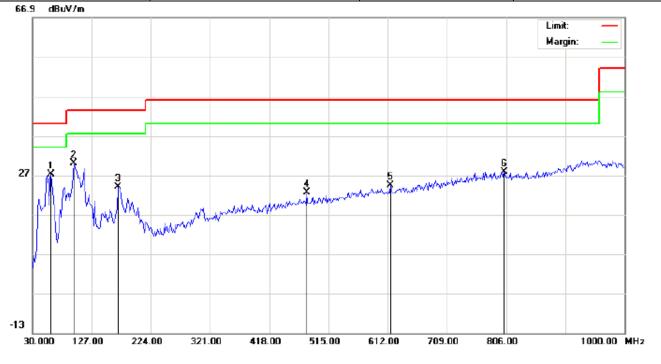
Distance: 3m

Temperature: 26 Humidity: 60 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	41.3167	25.31	8.81	34.12	40.00	-5.88	peak			
2		89.8167	21.95	5.31	27.26	43.50	-16.24	peak			
3		190.0500	12.98	11.52	24.50	43.50	-19.00	peak			
4		264.4166	6.44	14.34	20.78	46.00	-25.22	peak			
5		472.9667	0.27	20.84	21.11	46.00	-24.89	peak			
6		783.3667	0.13	27.09	27.22	46.00	-18.78	peak			

Report No.: AGC03569141101FE04 Page 61 of 84

EUT	Mobile Phone	Model Name	U1S
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHZ	Antenna	Horizontal



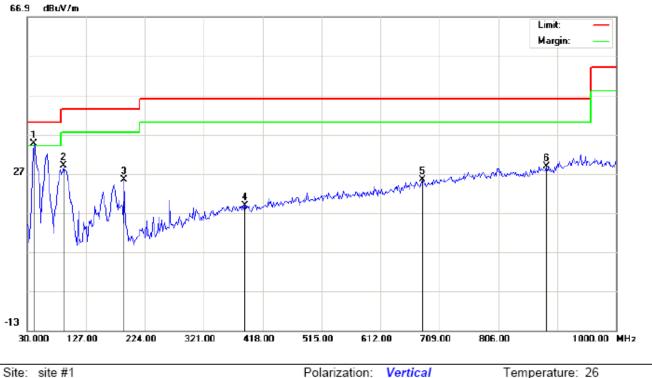
Site: site #1 Limit: FCC Class B 3M Radiation EUT: Mobile Phone M/N: U1S Mode: High Channel TX Note: Polarization: *Horizontal* Power: AC 120V/60Hz Temperature: 26 Humidity: 60 %

Distance: 3m

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	60.7167	16.11	11.09	27.20	40.00	-12.80	peak			
2		97.9000	19.72	10.25	29.97	43.50	-13.53	peak			
3		170.6500	10.88	13.06	23.94	43.50	-19.56	peak			
4		479.4333	1.74	20.91	22.65	46.00	-23.35	peak			
5		616.8500	0.54	23.77	24.31	46.00	-21.69	peak			
6		802.7667	0.42	27.32	27.74	46.00	-18.26	peak			

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EUT	Mobile Phone	Model Name	U1S
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHZ	Antenna	Vertical



Limit: FCC Class B 3M Radiation EUT: Mobile Phone M/N: U1S Mode: High Channel TX Note: Polarization: Vertical Power: AC 120V/60Hz Distance: 3m Temperature: 26 Humidity: 60 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over		Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree		
1	*	41.3167	25.89	8.81	34.70	40.00	-5.30	peak				
2		89.8167	23.71	5.31	29.02	43.50	-14.48	peak				
3		190.0500	13.89	11.52	25.41	43.50	-18.09	peak				
4		388.9000	-0.10	19.00	18.90	46.00	-27.10	peak				
5		681.5167	0.69	24.69	25.38	46.00	-20.62	peak				
6		885.2167	0.60	28.23	28.83	46.00	-17.17	peak				

RESULT: PASS

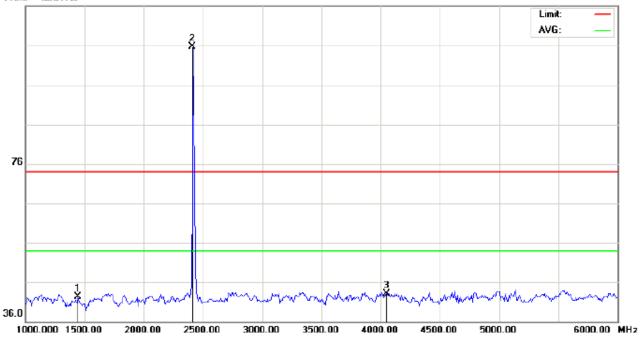
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

RADIATED EMISSION ABOVE 1GHZ

EUT	Mobile Phone	Model Name	U1S
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Horizontal

116.0 dBuV/m



 Site:
 site #1
 Polarization:
 Horizontal
 Temperature:
 26

 Limit:
 FCC Class B 3M Radiation above 1GHZ(PK)
 Power:
 Humidity:
 60 %

 EUT:
 Mobile Phone
 Distance:
 3m

 M/N:
 U1S

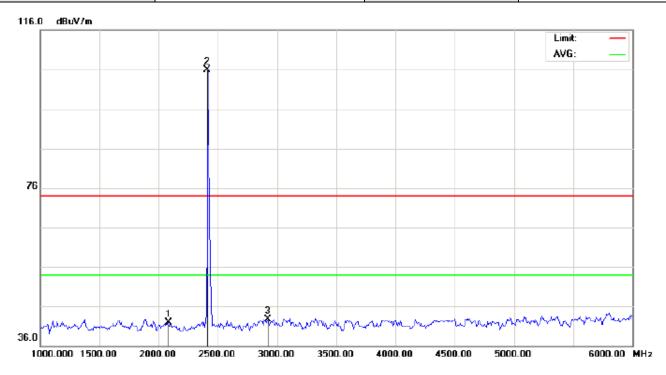
 Mode:
 802.11b Low Channel TX

 Note:
 Vertice

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		1441.667	57.65	-15.40	42.25	74.00	-31.75	peak			
2	*	2412.000	115.28	-9.67	105.61	74.00	31.61	peak			
3		4050.000	47.75	-4.64	43.11	74.00	-30.89	peak			

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EUT	Mobile Phone	Model Name	U1S
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Vertical



 Site:
 site #1
 Polarization:
 Vertical

 Limit:
 FCC Class B 3M Radiation above 1GHZ(PK)
 Power:

 EUT:
 Mobile Phone
 Distance:
 3m

 M/N:
 U1S

Mode: 802.11b Low Channel TX Note: Temperature: 26 Humidity: 60 %

Antenna Table Freq. Reading Factor Measurement Limit Over Mk Height Degree No. Detector Comment -MHz dBu∨ dB/m dBuV/m dBuV/m dB cm degree 2083.333 51.97 -10.03 41.94 74.00 -32.06 1 peak 2 74.00 2412.000 115.57 -9.67 105.90 31.90 * peak 3 2925.000 51.26 42.72 -8.54 74.00 -31.28 peak

RESULT: PASS

Note: The other modes radiation emissions have more than 20dB margin. All modes radiation emission from 6GHz to 25GHz at least have 20dB margin. Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit. The "Factor" value can be calculated automatically by software of measurement system.

12. BAND EDGE EMISSION

12.1. MEASUREMENT PROCEDURE

1)Radiated restricted band edge measurements

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting

2)Conducted Emissions at the bang edge

a)The transmitter output was connected to the spectrum analyzer

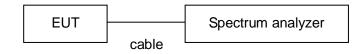
b)Set RBW=100kHz,VBW=300kHz

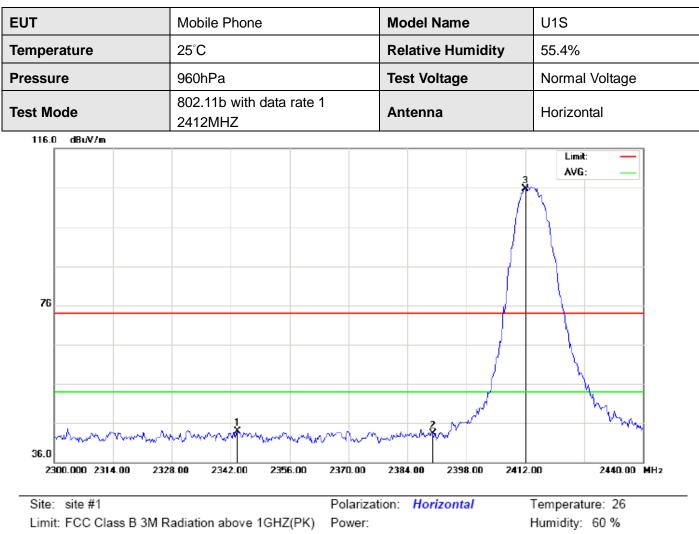
c)Suitable frequency span including 100kHz bandwidth from band edge

12.2. TEST SET-UP

Radiated same as 11.2

Conducted set up





12.3. Radiated Test Result

M/N: U1S Mode: 802.11b Low Channel TX

Distance: 3m

EUT: Mobile Phone

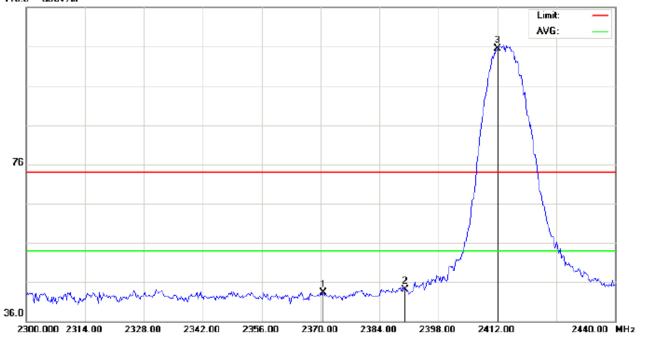
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∨	dB/m	dBu\//m	dBu∨/m	dB		cm	degree	
1		2343.633	53.61	-9.74	43.87	74.00	-30.13	peak			
2		2390.000	52.90	-9.69	43.21	74.00	-30.79	peak			
3	*	2412.000	115.36	-9.67	105.69	74.00	31.69	peak			

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EUT	Mobile Phone	Model Name	U1S
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Vertical

116.0 dBuV/m



 Site:
 site #1
 Polarization:
 Vertical
 Temperature:
 26

 Limit:
 FCC Class B 3M Radiation above 1GHZ(PK)
 Power:
 Humidity:
 60 %

 EUT:
 Mobile Phone
 Distance:
 3m

 M/N:
 U1S

 Mode:
 802.11b Low Channel TX

 Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∨	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
1		2370.700	52.95	-9.71	43.24	74.00	-30.76	peak			
2		2390.000	53.77	-9.69	44.08	74.00	-29.92	peak			
3	*	2412.000	115.08	-9.67	105.41	74.00	31.41	peak			

EUT	EUT Mobile Phone Model I		U1S
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Horizontal





Site: site #1

Limit: FCC Class B 3M Radiation above 1GHZ(PK) EUT: Mobile Phone M/N: U1S

Power:

Polarization: Horizontal

Temperature: 26 Humidity: 60 %

Distance: 3m

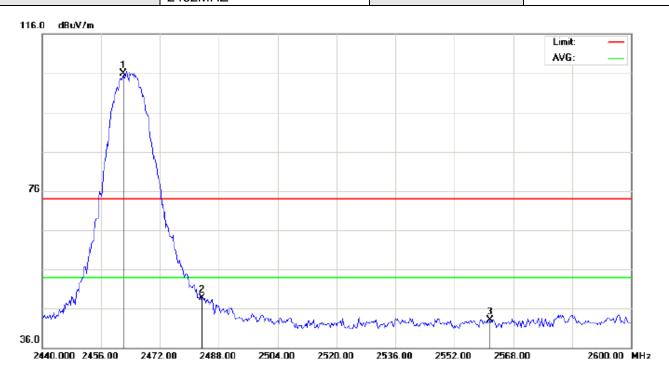
Mode: 802.11b High Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
		MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2462.000	115.89	-9.61	106.28	74.00	32.28	peak			
2		2483.500	56.31	-9.59	46.72	74.00	-27.28	peak			
3		2561.600	53.30	-9.42	43.88	74.00	-30.12	peak			

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EUT	Mobile Phone	Model Name	U1S
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Vertical



 Site:
 site #1
 Polarization:
 Vertical
 Temperature:
 26

 Limit:
 FCC Class B 3M Radiation above 1GHZ(PK)
 Power:
 Humidity:
 60 %

 EUT:
 Mobile Phone
 Distance:
 3m

 M/N:
 U1S

 Mode:
 802.11b High Channel TX

 Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∀	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
1	*	2462.000	115.42	-9.61	105.81	74.00	31.81	peak			
2		2483.500	58.22	-9.59	48.63	74.00	-25.37	peak			
3		2561.600	52.50	-9.42	43.08	74.00	-30.92	peak			

RESULT: PASS

Note: The other modes radiation emission have enough 20dB margin.

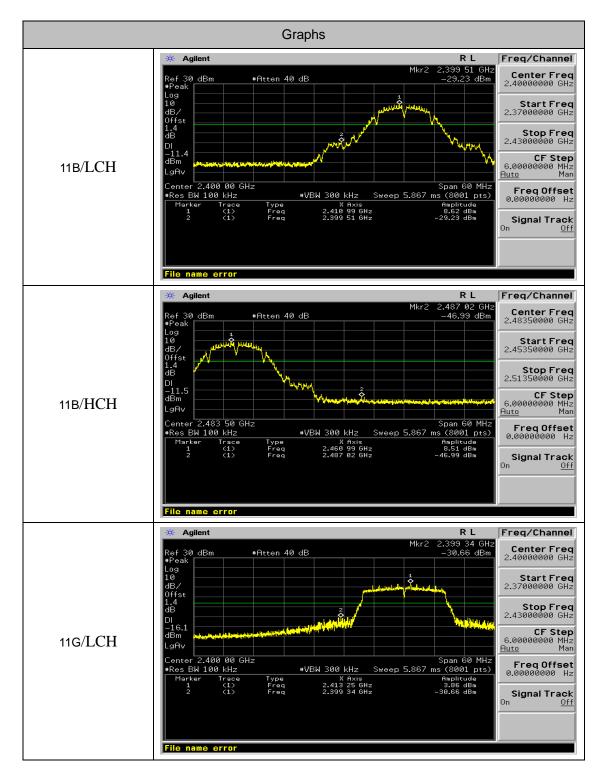
Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

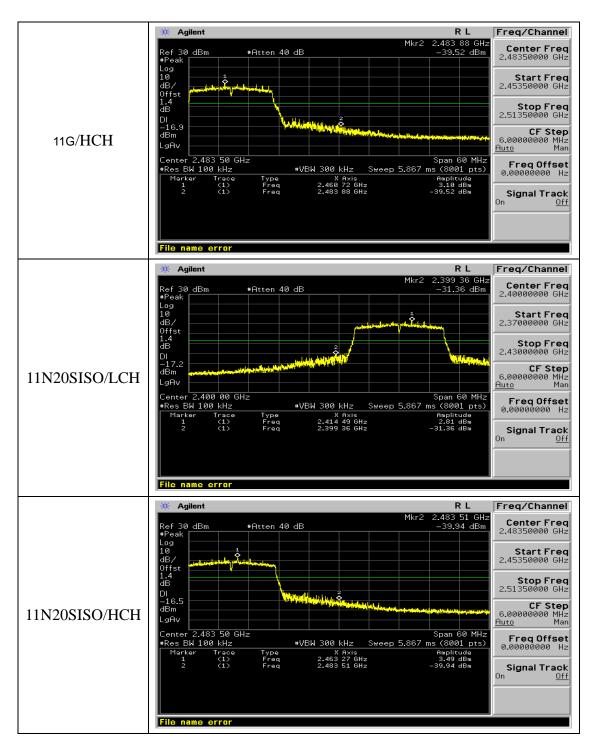
The "Factor" value can be calculated automatically by software of measurement system.

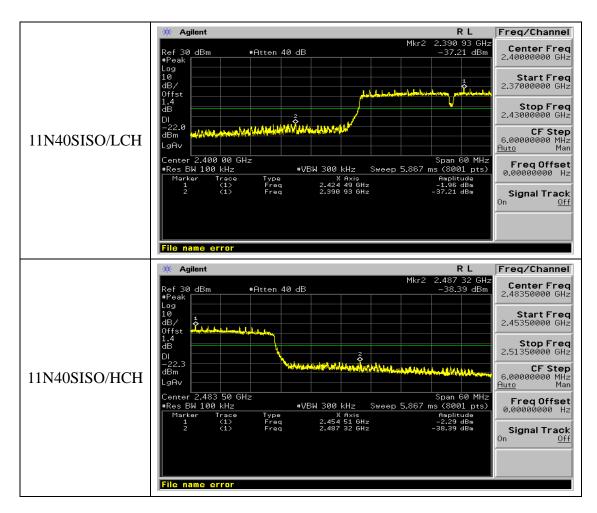
12.4. Conducted Test Result

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdi ct
11B	LCH	8.62	-29.23	-11.38	PASS
11B	HCH	8.51	-47	-11.49	PASS
11G	LCH	3.86	-30.66	-16.14	PASS
11G	HCH	3.1	-39.52	-16.9	PASS
11N20SISO	LCH	2.81	-31.37	-17.19	PASS
11N20SISO	HCH	3.5	-39.94	-16.5	PASS
11N40SISO	LCH	-1.96	-37.21	-21.96	PASS
11N40SISO	HCH	-2.29	-38.39	-22.29	PASS

Test Graph







13. FCC LINE CONDUCTED EMISSION TEST

13.1. LIMITS OF LINE CONDUCTED EMISSION TEST

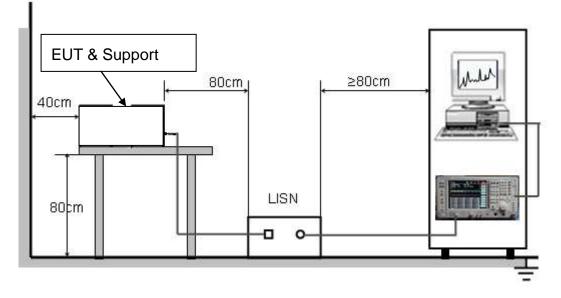
Frequency	Maximum RF Line Voltage							
Frequency	Q.P.(dBuV)	Average(dBuV)						
150kHz~500kHz	66-56	56-46						
500kHz~5MHz	56	46						
5MHz~30MHz	60	50						

Note:

1. The lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

13.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



13.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.4.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- 4. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received charging voltage by adapter which received 120V/60Hzpower by a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

13.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.

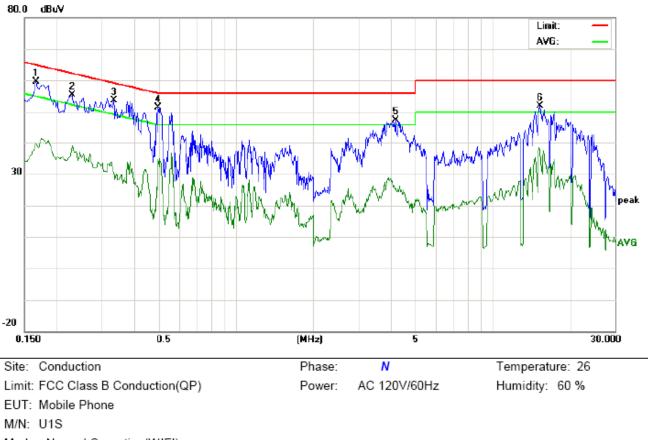
80.0 dBuV Limit: AVG: 30 eak VG -20 0.5 (MHz) 30.000 0.150 5 Site: Conduction Phase: L1 Temperature: 26 Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 60 % EUT: Mobile Phone M/N: U1S Mode: Normal Operating(WIFI)

13.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Note:

No. Freq. (MHz)		Reading_Level (dBuV)			Correct Measurer Factor (dBuV					Margin (dB)		P/F	Comment	
	Peak	QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG			
1	0.1539	48.80		25.52	10.16	58.96		35.68	65.78	55.78	-6.82	-20.10	Р	
2	0.2500	43.70		24.40	10.27	53.97		34.67	61.75	51.75	-7.78	-17.08	Р	
3	0.4980	39.64		27.63	10.40	50.04		38.03	56.03	46.03	-5.99	-8.00	Р	
4	1.6100	31.64		19.55	10.34	41.98		29.89	56.00	46.00	-14.02	-16.11	Р	
5	3.5220	34.04		22.01	10.51	44.55		32.52	56.00	46.00	-11.45	-13.48	Р	
6	15.2100	42.08		28.14	10.12	52.20		38.26	60.00	50.00	-7.80	-11.74	Р	

LINE CONDUCTED EMISSION TEST LINE 1-L



Line Conducted Emission Test Line 2-N

Mode: Normal Operating(WIFI)

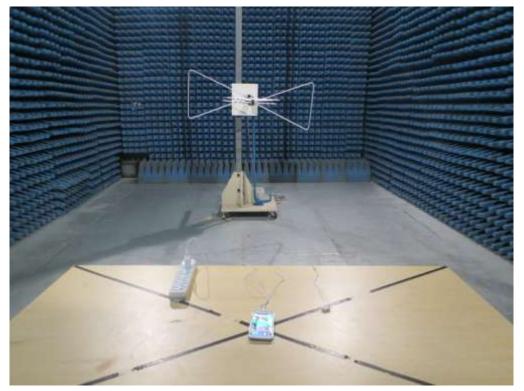
Note:

No.	Freq. (MHz)	Reading_Level (dBuV)		Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment	
		Peak	QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.1660	49.39		29.38	10.18	59.57		39.56	65.15	55.15	-5.58	-15.59	Р	
2	0.2300	45.07		28.97	10.25	55.32		39.22	62.45	52.45	-7.13	-13.23	Р	
3	0.3339	43.84		20.18	10.30	54.14		30.48	59.35	49.35	-5.21	-18.87	Р	
4	0.4980	41.09		24.14	10.40	51.49		34.54	56.03	46.03	-4.54	-11.49	Р	
5	4.1860	37.07		14.86	10.35	47.42		25.21	56.00	46.00	-8.58	-20.79	Р	
6	15.3180	41.86		26.76	10.12	51.98		36.88	60.00	50.00	-8.02	-13.12	Р	

APPENDIX A: PHOTOGRAPHS OF TEST SETUP FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP







APPENDIX B: PHOTOGRAPHS OF EUT TOTAL VIEW OF EUT



BOTTOM VIEW OF EUT



BACK VIEW OF EUT

LEFT VIEW OF EUT





RIGHT VIEW OF EUT

OPEN VIEW OF EUT-1

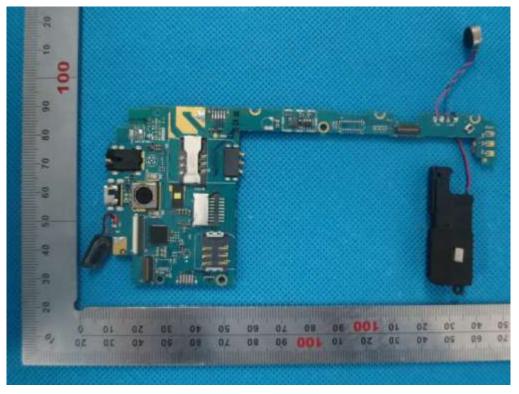




OPEN VIEW OF EUT-2

OPEN VIEW OF EUT-3





INTERNAL VIEW OF EUT-1

INTERNAL VIEW OF EUT-2



----END OF REPORT----