

FCC Test Report

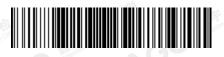
Report No.: AGC01559190513FE05

FCC ID	Ċ	2AANZPLSE
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	EK of Coope	PULSE Smart Digital Scale
BRAND NAME	:	Quirky
MODEL NAME	:	QKY-PLSE-WHT, QKY-PLSE-BLK, QKY-PLSE, QKY-PLSE-XXXX
CLIENT	•	DGL Group LTD.
DATE OF ISSUE	:	Jun. 06, 2019
STANDARD(S) TEST PROCEDURE(S)		FCC Part 15.247
REPORT VERSION	2	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		Jun. 06, 2019	Valid	Initial Release

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1. VERIFICATION OF CONFORMITY

Applicant	DGL Group LTD.	C Tratation of God	C The nation of Globa	C Attestation
Address	195 Raritan Center Parkway Edison, N	New Jersey Unite	ed States 08837	0
manufacturer	DGL Group LTD.			litter -
Address	195 Raritan Center Parkway Edison, N	New Jersey Unite	ed States 08837	The Compliance
Product Designation	PULSE Smart Digital Scale	plance I They	compliant G Attacation	
Brand Name	Quirky	C Attestation of	S	N.
Test Model	QKY-PLSE-WHT	GO		
Series Model	QKY-PLSE-BLK, QKY-PLSE, QKY-PL	SE-XXXX	1000	O H H al
Difference description	All the same except for the model nam	ne and different a	appearance color	Attestatio
Date of test	May 26, 2019 to Jun. 06, 2019	allon and i		
Deviation	None	N		all.
Condition of Test Sample	Normal	植	The The Corne	liance ©
Test Result	Pass	Com Stand Clobal Com	C The station of Gubbs	
Report Template	AGCRT-US-BGN/RF	C Massim	- C	

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 C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.247.

Tested By

Draven.li

Draven Li(Li Ming Liang)

Jun. 06, 2019

Reviewed By

Max Zhang

Max Zhang(Zhang Yi)

Jun. 06, 2019

Jun. 06, 2019

Approved By

Forrest in

Forrest Lei(Lei Yonggang) Authorized Officer

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Attestation of Global Compliance

Tel: +86-755 2908 1955 Fax: +86-755 2600 8484 E-mail: agc@agc-cert.com @ 400 089 2118 Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong China



2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "PULSE Smart Digital Scale". It is designed by way of utilizing the DSSS and OFDM technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.412 GHz~2.462GHz
Output Power(Average)	IEEE 802.11b:13.68dBm; IEEE 802.11g:11.36dBm; IEEE 802.11n(20):10.78dBm;
Modulation	DSSS(DBPSK/DQPSK/CCK);OFDM(BPSK/QPSK/16-QAM/64-QAM)
Number of channels	11
Hardware Version	V2.1
Software Version	V1.0
Antenna Designation	PCB antenna
Antenna Gain	2.5dBi
Power Supply	DC 6V by Battery

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
E Trad Constant Const		2412 MHZ
SC internet	2	2417 MHZ
	A the second comment	2422 MHZ
E TA TOUR COMMOND	Samular CA	2427 MHZ
	5	2432 MHZ
2400~2483.5MHZ	6	2437 MHZ
The There are a the second	The second comment of the second comments	2442 MHZ
A const Company 6 Manufactor	80	2447 MHZ
	9	2452 MHZ
	10	2457 MHZ
The Comparison Of the second	of the second se	2462 MHZ

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

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2.3. IEEE 802.11N MODULATION SCHEME

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MCS Index	Nss	s Modulation	R	NBPSC	NCI	BPS	NDI	BPS	rate(I	ata Mbps) nsGl
					20MHz	40MHz	20MHz	40MHz	20MHz	40MHz
0	1	BPSK	1/2	1 55	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	6	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	The Taken of	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

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 Standard Gi Standard	Guard interval

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

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

2.5. TEST METHODOLOGY

KDB 558074 D01 15.247 Meas Guidance v05: Guidance for compliance measurements on Digital transmissio n system, frequency hopping spread spectrum system, and hybrid system devices operating under section 15.247 of the FCC rules

ANSI C63.10:2013 : American National Standard for Testing Unlicensed Wireless Devices

2.6. SPECIAL ACCESSORIES

Refer to section 5.2.

2.7. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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3. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in

- measurement" (GUM) published by CISPR and ANSI.
- Uncertainty of Conducted Emission, $Uc = \pm 3.2 dB$
- Uncertainty of Radiated Emission below 1GHz, Uc = ± 3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB

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4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION					
121 June	the state of the s	Low channel TX	No.			
2 💿	Standing of the standing of th	Middle channel TX	T the and			
3		High channel TX	C The stand clobal Con			
4	the second secon	Normal operating	~~ ~C			

Transmit by 802.11n (20MHz) with Date rate (6.5/13/19.5/26/39/52/58.5/65)

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. The test software is the ESP Test Tool V2.2.3 which can set the EUT into the individual test modes.

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5. SYSTEM TEST CONFIGURATION 5.1. CONFIGURATION OF EUT SYSTEM

Radiated Emission Configure :

diated Emission Comigu

EUT

5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
Q O °	PULSE Smart Digital Scale	QKY-PLSE-WHT	2AANZPLSE	EUT

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.247	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	N/A

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6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd				
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China				
Designation Number	CN1259				
FCC Test Firm Registration Number	975832				
A2LA Cert. No.	5054.02				
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA				

TEST EQUIPMENT OF RADIATED EMISSION TEST

SUV. Co.	SIN COMP	22 manal	Allest		
Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun. 12, 2018	Jun. 11, 2019
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 20, 2018	Dec. 19, 2019
Power sensor	Aglient	U2021XA	MY54110007	Sep. 20, 2018	Sep. 19, 2019
2.4GHz Fliter	Micro-tronics	087	N/A	Jun. 12, 2018	Jun. 11, 2019
Attenuator	Weinachel Corp	58-30-33	N/A	Jun. 12, 2018	Jun. 11, 2019
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 21, 2017	Sep. 20, 2020
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Jun. 14, 2018	Jun. 13, 2020
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May. 26, 2018	May. 25, 2020
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Oct. 25, 2018	Oct. 24, 2019
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep. 28, 2017	Sep. 27, 2019

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7. OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

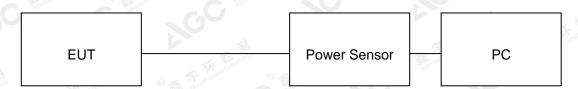
For average power test:

- 1. Connect EUT RF output port to power sensor through an RF attenuator.
- 2. Connect the power sensor 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.

Note: The EUT was tested according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements.

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

AVERAGE POWER SETUP



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7.3. LIMITS AND MEASUREMENT RESULT

TEST ITEM	OUTPUT POWER	SOU
TEST MODE	802.11b with data rate 1	The Comments

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail	
2.412	13.51	30	Pass	
2.437	13.68	30	Pass	
2.462	12.27	30	Pass	

TEST ITEM	OUTPUT POWER	C Automot Globa	C Stestation of C	0
TEST MODE	802.11g with data rate 6			

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	11.36	30	Pass
2.437	10.45	30	Pass
2.462	10.44	30	Pass

TEST ITEM	OUTPUT POWER		The the second
TEST MODE	802.11n 20 with data rate 6.5	The Company	Contraction of Contract

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	10.78	30	Pass
2.437	10.42	30	Pass
2.462	10.68	30	Pass

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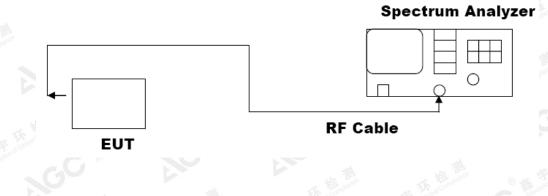
8.6 DB BANDWIDTH

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≥3×RBW.
- 4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements.

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



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8.3. LIMITS AND MEASUREMENT RESULTS

TEST ITEM	6DB BANDWIDTH	C Attestation of C	C Attendion of Gou	C Atestation of
TEST MODE	802.11b with data rate 11			

LIMITS AND MEASUREMENT RESULT

Applicable Limits		Applicable Limits	
	Test Data	(MHz)	Criteria
SGGGGGGGGGGGGG	Low Channel	8.078	PASS
>500KHZ	Middle Channel	8.065	PASS
	High Channel	8.068	PASS

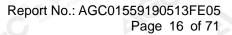
NGC NG	, No		The The state	H in the the state
TEST ITEM	6DB BANDWIE	DTH	⁶ Austalion of C	States No.
TEST MODE	802.11g with da	ata rate 54	No	

LIMITS AND MEASUREMENT RESULT						
Annlinghle Limite		Applicable Limits				
Applicable Limits	Test Data (MHz)		Criteria			
NGO	Low Channel	16.32	PASS			
>500KHZ	Middle Channel	16.32	PASS			
C # Coost C	High Channel	16.30	PASS			

TEST ITEM	6DB BANDWIDTH	Nessland C	GU	NO
TEST MODE	802.11n 20 with data rate 65	NOL I		Th

	LIMITS AND MEASU	REMENT RESULT		
Applicable Limits				
Applicable Limits	Test Data (MHz)		Criteria	
	Low Channel	16.29	PASS	
>500KHZ	Middle Channel	16.28	PASS	
	High Channel	16.28	PASS	

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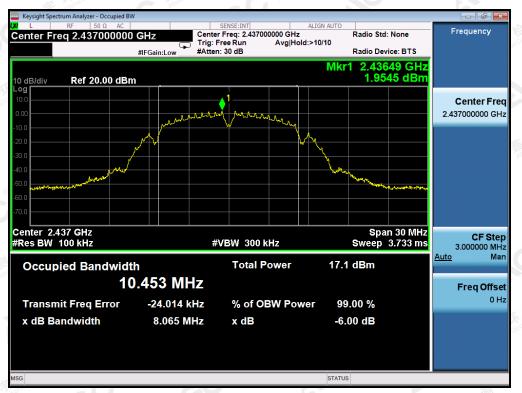






802.11b TEST RESULT TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

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802.11g TEST RESULT TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

STATUS



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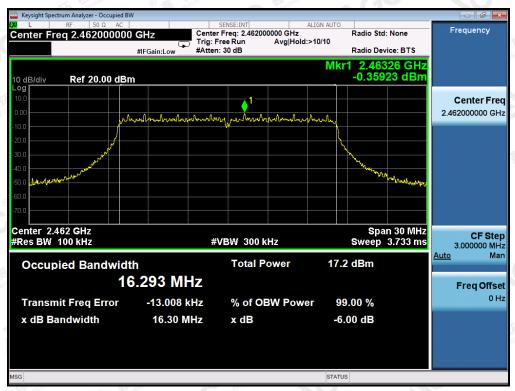


TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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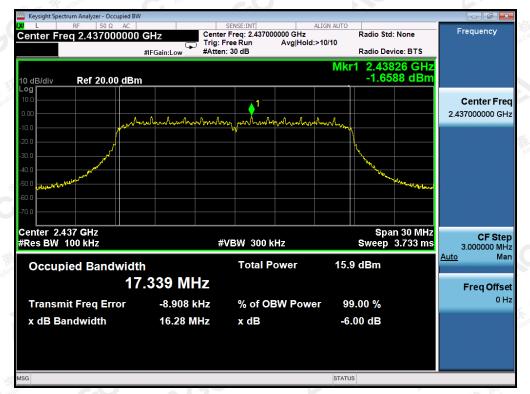


802.11n (20) TEST RESULT

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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STATUS

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

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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 ANSI C63.10 (2013) 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 USEDJN

The same as described in section 6.

9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEAS	SUREMENT RESULT			
Applicable Limite	Measurement Result			
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 -30dBc than the limit Specified on the BOTTOM Channel	PASS		
power that is produce by the intentional radiator shall be at least 30 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 -30dBc than the limit Specified on the TOP Channel	PASS		

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Peak Search Avg Type: Log-Pwi Avg|Hold:>100/100 MHz PNO: Fast Trig: Free Run IFGain:Low #Atten: 30 dB Next Pea Mkr1 884.519 MH I0 dB/div -59.417 dBm Ref 20.00 dBm Next Pk Right Next Pk Left Marker Delta Mkr→C Mkr→RefLvi More 1 of 2 Start 0.0300 GHz #Res BW 100 kHz Stop 1.0000 GHz Sweep 93.33 ms (40000 pts) #VBW 300 kHz Peak Search Marker 1 2.398494962374 GHz PNO: Fast C IFGain:Low Avg Type: Log-Pwr Avg|Hold:>100/100 Trig: Free Run #Atten: 30 dB Next Peak Mkr1 2.398 495 GHz -51.335 dBm Ref 20.00 dBm 10 dB/div Next Pk Right Next Pk Left Marker Delta Mkr→CF Mkr→RefLv More Start 1.0000 GHz #Res BW 100 kHz 1 of 2 Stop 2.4000 GHz 136.0 ms (40000 pts) #VBW 300 kHz Sweep

TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11b FOR MODULATION IN LOW CHANNEL

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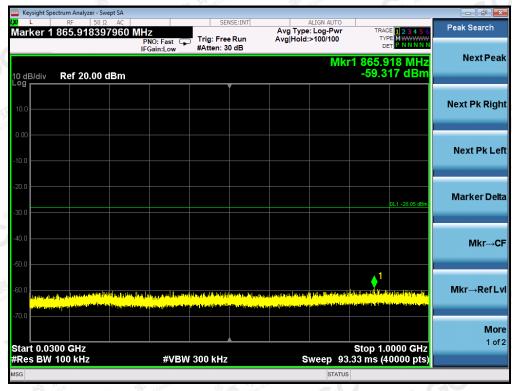
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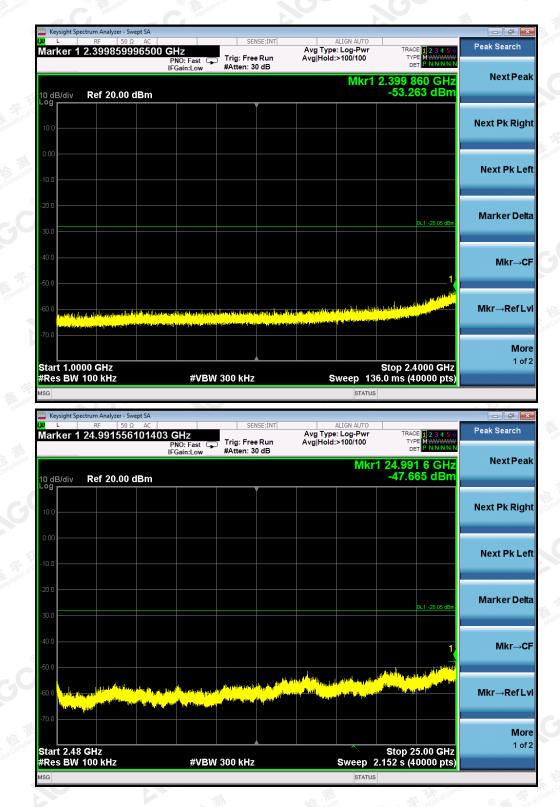
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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11b FOR MODULATION IN MIDDLE CHANNEL



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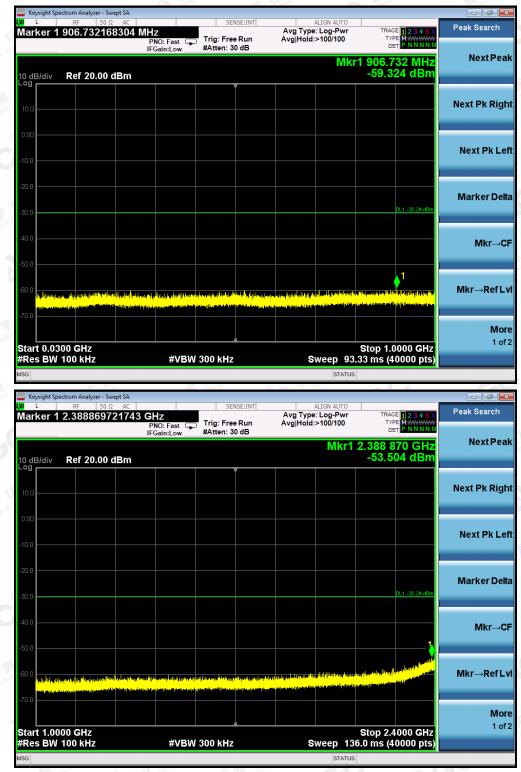


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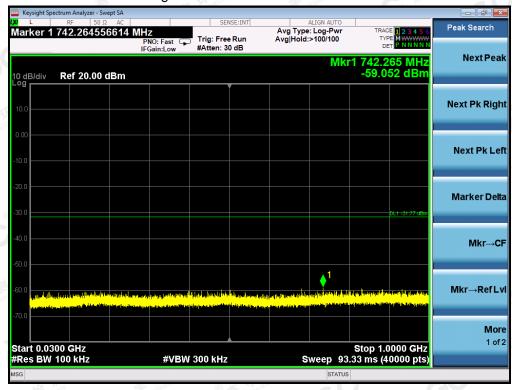
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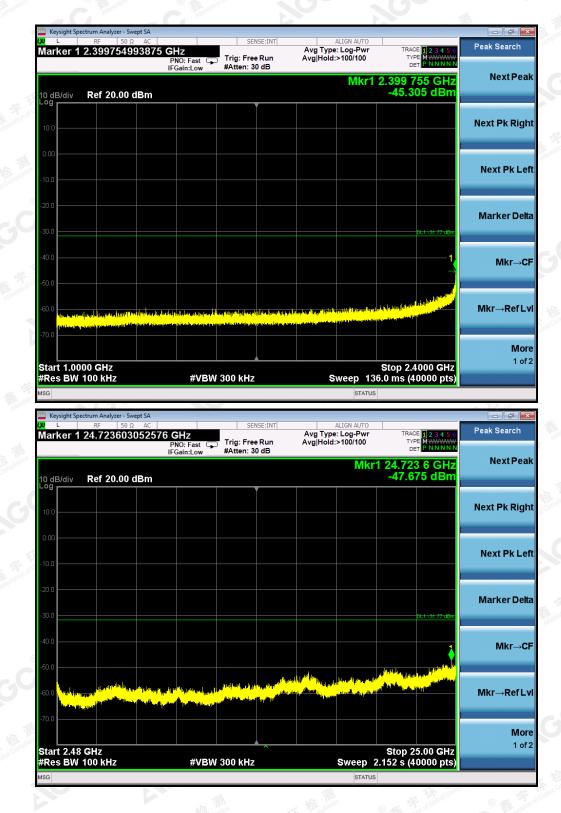
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TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11g FOR MODULATION IN LOW CHANNEL



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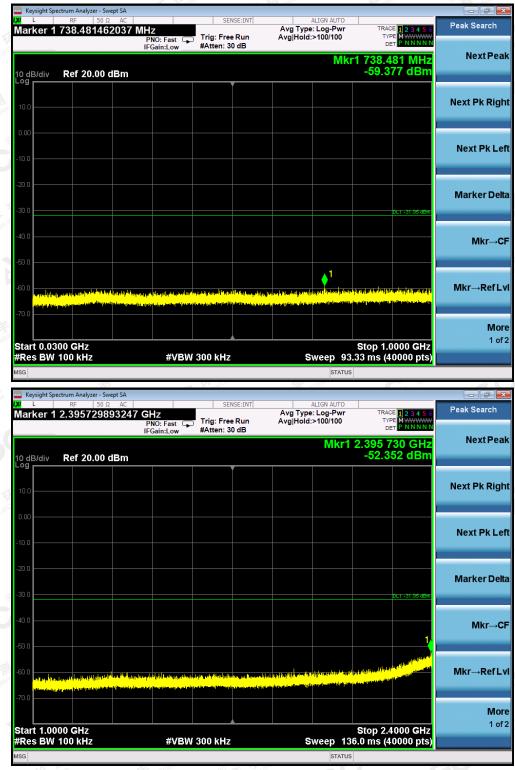


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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11g FOR MODULATION IN MIDDLE CHANNEL

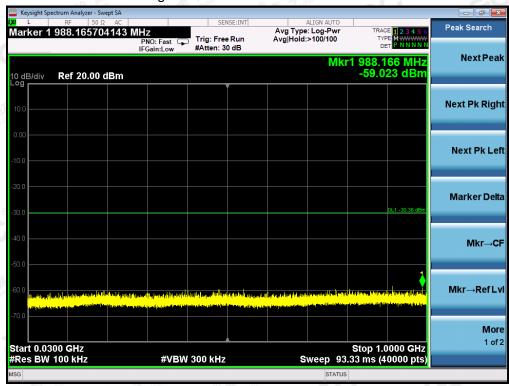
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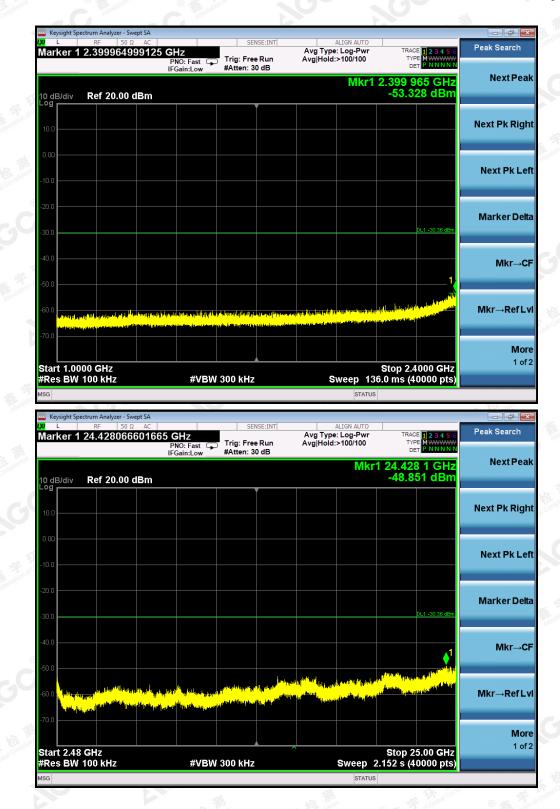
OF 802.11g FOR MODULATION IN HIGH CHANNEL



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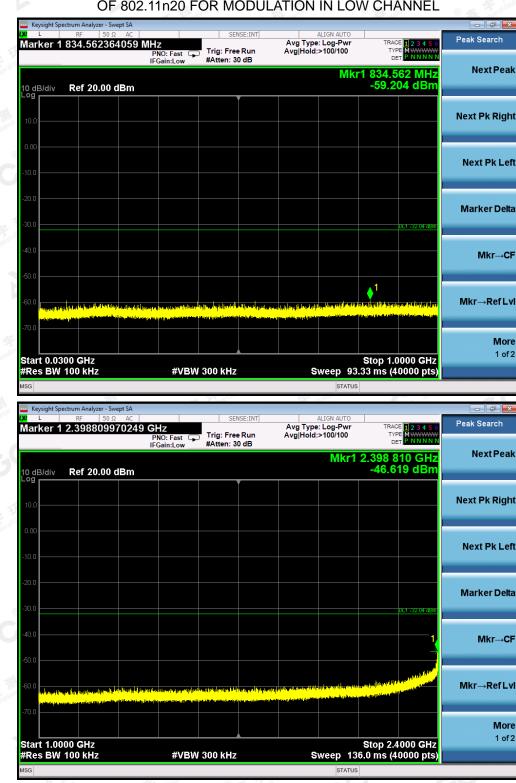


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TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11n20 FOR MODULATION IN LOW CHANNEL

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Mkr→CF

More 1 of 2

Mkr→RefLy



TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE



OF 802.11n20 FOR MODULATION IN MIDDLE CHANNEL

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#VBW 300 kHz

Start 0.0300 GHz

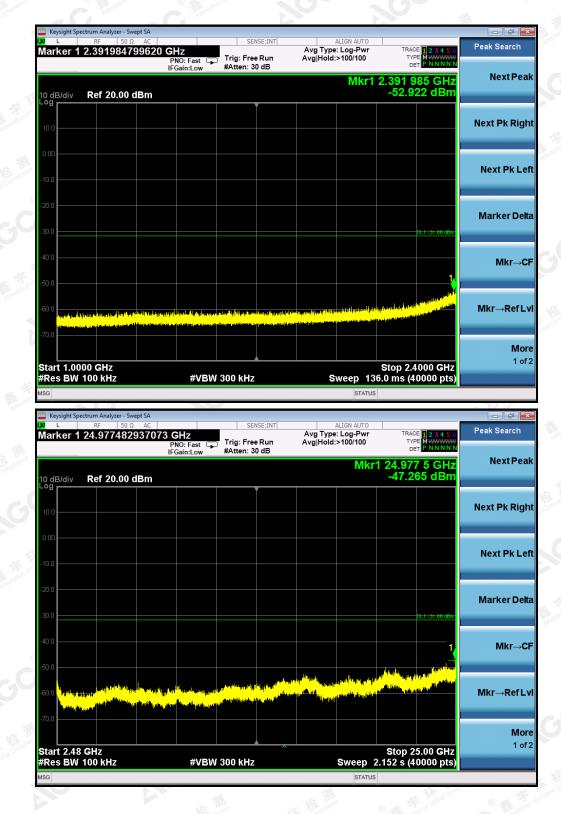
Res BW 100 kHz

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Stop 1.0000 GHz Sweep 93.33 ms (40000 pts)

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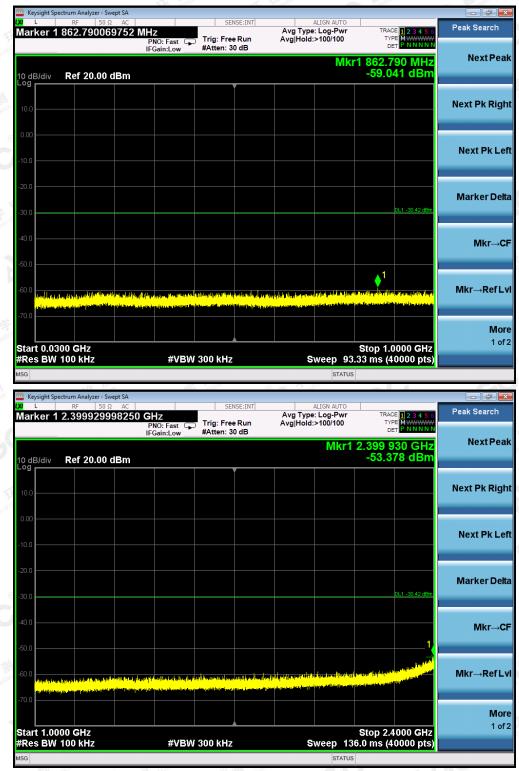


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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11n20 FOR MODULATION IN HIGH CHANNEL

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Keysight Sp	ectrum Analyzer - Sw							-		
Marker 1	RF 50 Ω 24.986489	762244 (GHZ NO: Fast				LIGN AUTO LOG-Pwr >100/100	TRAC	E 1 2 3 4 5 6 E M WWWW	Peak Search
10 dB/div	Ref 20.00 (IF	Gain:Low	#Atten: 3		, rightera		DE 1 24.98		NextPeak
10.0										Next Pk Righ
0.00										Next Pk Le
-20.0									DL1 -30.42 dBm	Marker Delt
-40.0									1	Mkr→C
-50.0				politika katalan da <mark>Bar</mark> ana katalan da	n an tha state of the state Name of the state of	an a	ala de la competencia	a d <mark>a bababa</mark> da ang		Mkr→RefL
-70.0										Mor 1 of
Start 2.48 #Res BW			#VBW	300 kHz			Sweep 2	Stop 2 2.152 s (4	5.00 GHz 0000 pts)	
MSG							STATUS			

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10. MAXIMUM CONDUCTED OUTPUT 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 AVGPSD-1 in the ANSI C63.10 (2013) item 11.10 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

TEST ITEM	POWER SPECTRAL DENSITY	The tomplance	F Good Complian	© 1
TEST MODE	802.11b with data rate 1	Contraction of Court	C Altereditoria	30

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-4.518	8 6	Pass
Middle Channel	-3.599	8	Pass
High Channel	-7.393	8	Pass

TEST ITEM	POWER SPECTRAL DENSITY		
TEST MODE	802.11g with data rate 6	The Company	C The stand of the state

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-7.254	8 Same	Pass
Middle Channel	-7.366	8	Pass
High Channel	-6.279	8	Pass

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TEST ITEM	POWER SPECTRAL DENSITY	The standard	the compliance
TEST MODE	802.11n 20 with data rate 6.5	6 Augustion of C	C Mussellon
ACompletion The Completion			
Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-7.015	8	Pass
Middle Channel	-7.087	8	Pass
High Channel	-5.843	8	Pass

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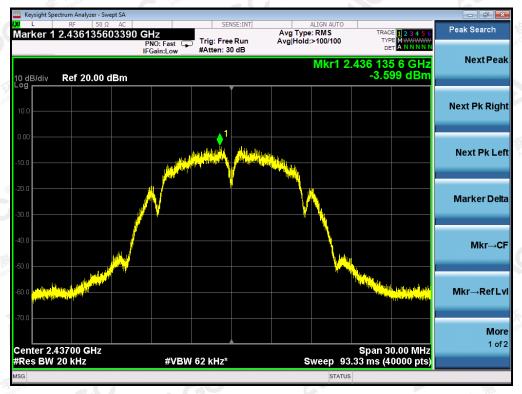


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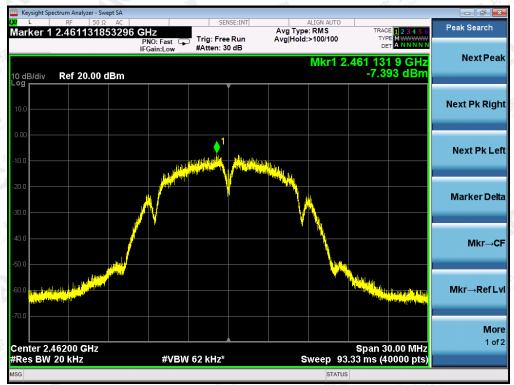


802.11b TEST RESULT TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

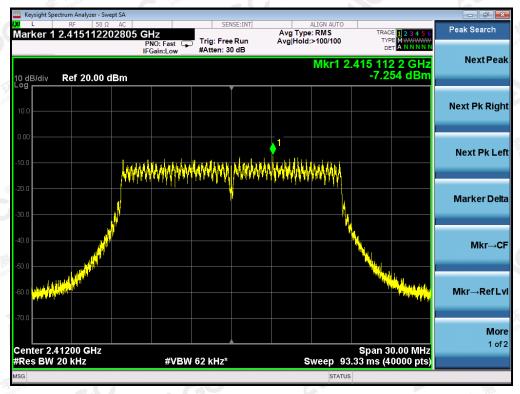


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TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

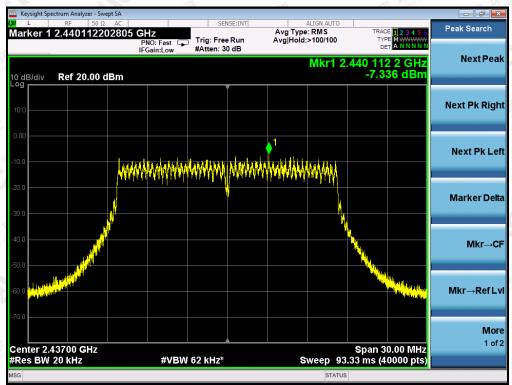
802.11g TEST RESULT TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



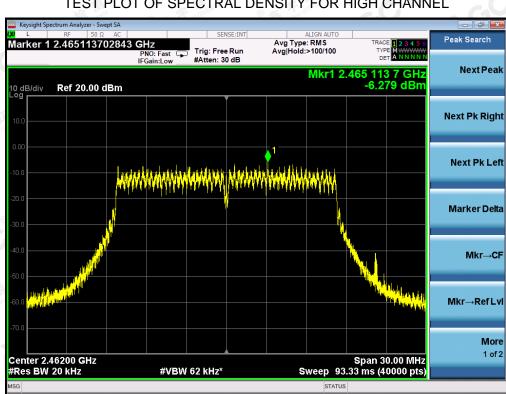
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TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



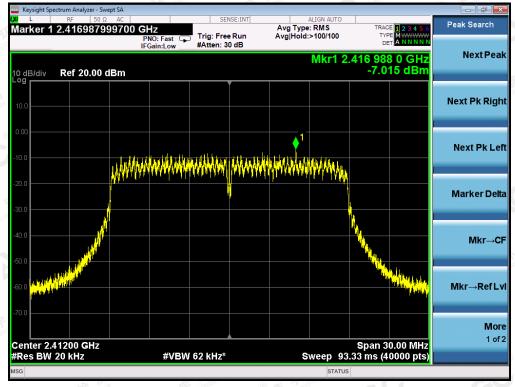
TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

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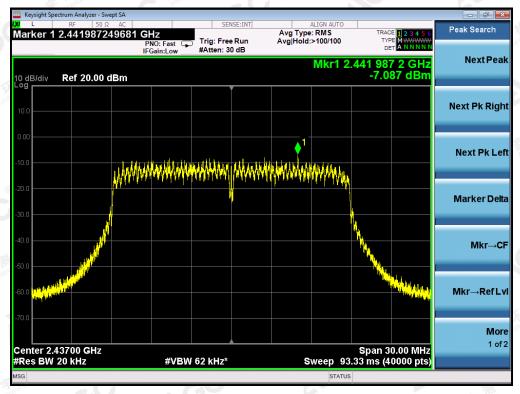


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802.11n 20 TEST RESULT TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

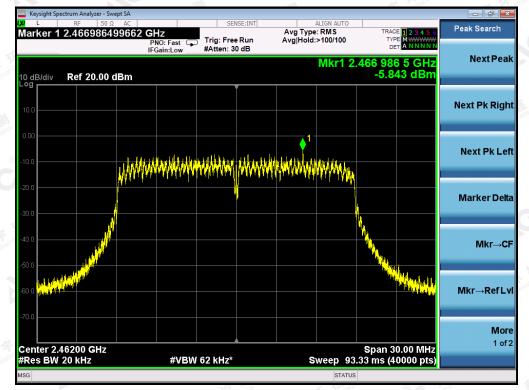
TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



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TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

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11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 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 RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 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.

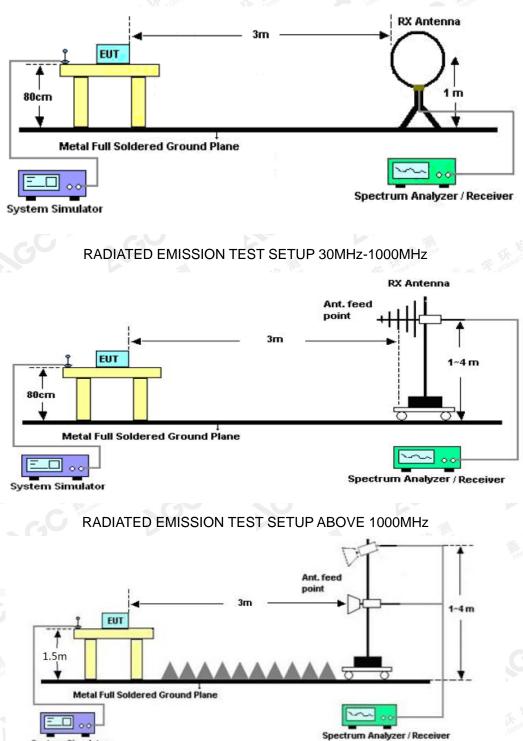
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11.2. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz



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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.

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