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FCC Test Report

Report No.: AGC01125180408FE05

FCC ID			2AM9IPI0IOMTP00200
APPLICATION PUR	RPOSE	:	Original Equipment
PRODUCT DESIGN	ATION	K 1	Master Target
BRAND NAME		- 2	IOTargeting
MODEL NAME		:	PI0I0MTP00200, PI0I0MTA00200
CLIENT		04	IoTargeting, LLC.
DATE OF ISSUE		:	Jun. 07, 2018
STANDARD(S) TEST PROCEDURE	2(S)	nce •	FCC Part 15.247
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		Jun. 07, 2018	Valid	Initial Release

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1. VERIFICATION OF CONFORMITY

P. HEST	
Applicant	IoTargeting, LLC.
Address	511 N Washington Ave, Marshall, Texas, USA 75670.
Manufacturer	System Level Solutions (India) Pvt. Ltd
Address	Plot#32, Zone-D/4, Phase-1, GIDC Estate,V.U. Nagar - 388 121, Gujarat, India
Product Designation	Master Target
Brand Name	IOTargeting
Test Model	PI0IOMTP00200
Series Model	PI0IOMTA00200
Declaration of Difference	The series model contains front part of Enclosure made from Aluminum instead of Plastic. Two products had been pre-tested, the PI0IOMTP00200 was the worst case which recorded in the report
Date of test	May 25, 2018 to Jun. 07, 2018
Deviation	None State Contraction Contraction
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-BGN/RF

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.

Nox 2ha

Max Zhang(Zhang Yi)

Jun. 07, 2018

Reviewed By

Tested By

BOR xie

Bart Xie(Xie Xiaobin)

Jun. 07, 2018

Approved By

west in

Forrest Lei(Lei Yonggang) Authorized Officer

Jun. 07, 2018

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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 "Master Target". 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	2412MHz-2462MHz
Output Power	IEEE 802.11b:11.58dBm; IEEE 802.11g:9.49dBm; IEEE 802.11n(20):8.71dBm; IEEE 802.11n(40):7.99dBm
Modulation	DSSS(DBPSK/DQPSK/CCK);OFDM(BPSK/QPSK/16-QAM/64-QAM)
Number of channels	11 and the second
Hardware Version	REV1B
Software Version	V1.0
Antenna Designation	PCB Antenna
Antenna Gain	2dBi
Power Supply	DC 6V by battery

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
The const Constant of the second Constant		2412 MHZ
Standard Standard	2	2417 MHZ
	A The 3 of The Content of	2422 MHZ
· · · · · · · · · · · · · · · · · · ·	CA CA	2427 MHZ
CC American CC American	5	2432 MHZ
2400~2483.5MHZ	6	2437 MHZ
The The There are the second	a Francisco 7	2442 MHZ
A Count Company of Company of Company	86	2447 MHZ
NOO NO	9	2452 MHZ
	10	2457 MHZ
The second constances	11 GC	2462 MHZ

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

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2.3. IEEE 802.11N MODULATION SCHEME

MCS	Nee	Madulation	-	NDDCC	NCI	BPS	ND	BPS		ata Nbps)
Index	Nss Mo	Modulation	R	NBPSC					800nsGl	
					20MHz	40MHz	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	0	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	Taion 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 M	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 & State	Guard interval	

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

This submittal(s) (test report) is intended for **FCC ID: 2AM9IPI0IOMTP00200** 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 C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

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 Radiated Emission below 1GHz, Uc = ± 3.9 dB
- Uncertainty of Radiated Emission above 1GHz, $Uc = \pm 4.8 \text{ dB}$

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4. DESCRIPTION OF TEST MODES

- 40 ⁻⁷				SIV Cov	
NO.			TEST MODE DESCRIPTION	l	
K 11	T the same	· Finand	Low channel TX	SCO.	S
2 🛞	Fridad Global Co	SC .	Middle channel TX		The sume
3	Pire		High channel TX	The Completion	C # Honor Good Cont
4	E P	THE AND	Normal operating	Find Globa	,C ~ .C
Note:	Jobal Com	A compared a			
Transm	it by 802,11b w	vith Date rate (1/2	2/5.5/11)		
			9/12/18/24/36/48/54)		
			e rate (6.5/13/19.5/26/39/52/58.5/65	5) 5	
			e rate (13.5/27/40.5/54/81/108/121.		

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.

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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Radiated Emission Configure :

EUT

5.2. EQUIPMENT USED IN EUT SYSTEM

ltem	Equipment	Model No.	ID or Specification	Remark
d ^C	Master Target	PI0IOMTP00200	2AM9IPI0IOMTP00200	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	

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6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd				
Location	1-2F., Bldg.2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District B112-B113, Bldg.12, Baoan Bldg Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen 518012				
NVLAP LAB CODE	600153-0				
Designation Number	CN5028				
FCC Test Firm Registration Number	682566				
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0				

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun.20, 2017	Jun.19, 2018
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec.08, 2017	Dec.07, 2018
Power sensor	Aglient	U2021XA	MY54110007	Sep.21, 2017	Sep.20, 2018
2.4GHz Fliter	Micro-tronics	087	N/A	Jun. 20, 2017	Jun. 19, 2018
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.20, 2017	Sep.19, 2018
preamplifier	ChengYi	EMC184045SE	980508	Sep.15, 2017	Sep.14, 2018
Active loop antenna (9K-30MHz)	A.H.	SAS-562B	N/A	Mar.01, 2018	Feb.28, 2019
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May.18, 2017	May.17, 2019
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun.20, 2017	Jun.19, 2018
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018

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7. OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

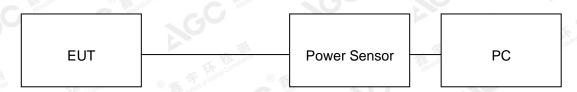
For average power test:

- 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	CC C	SC .	NG0
TEST MODE	802.11b with data rate 1			The manage

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	11.58	30	
2.442	11.32	30	Pass
2.462	11.46	30	Pass

TEST ITEM	OUTPUT POWER	C Strestation of Globa	C Altestation of Con	S
TEST MODE	802.11g with data rate 6		,	

Frequency (GHz)			Pass or Fail
2.412	9.06	9.06 30	
2.437	9.49	30	Pass
2.462	9.18	30	Pass

TEST ITEM	OUTPUT POWER		TK the man
TEST MODE	802.11n 20 with data rate 6.5	The the companie	Constant of Course

Frequency (GHz)			Pass or Fail
2.412	8.71	30	Pass
2.437	8.12	30	Pass
2.462	8.43	30	Pass

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TEST ITEM	OUTPUT POWER	C The second connection of the second connecti	d Global Contra
TEST MODE	802.11n 40 with data rate 13.	5 6 6 6 6	SCO
6 the ford Could	SO AGO		
Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.422	7.99	30	Pass
2.437	7.63	30	Pass
2.452	7.55	30	Pass

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8.6 DB BANDWIDTH

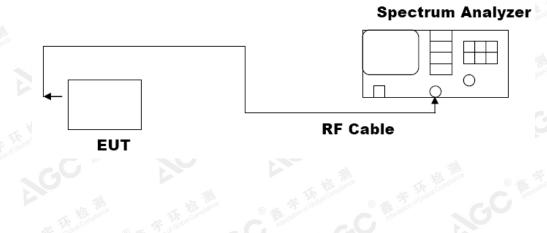
8.1. MEASUREMENT PROCEDURE

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 \ge 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 Allesation of Give	C Allostation of Globa	C Atestation of
TEST MODE	802.11b with data rate 11			0

LIMITS AND MEASUREMENT RESULT

		Applicable Limits	
Applicable Limits	Test Dat	Criteria	
SC	Low Channel	8.100	PASS
>500KHZ	Middle Channel	8.098	PASS
	High Channel	8.104	PASS

TEST ITEM	6DB BANDWIDTH	C Attestation of Cal	C Prostant	NO
TEST MODE	802.11g with data rate 54			The second se

	LIMITS AND MEASU	REMENT RESULT	
Analiaah la Limita		Applicable Limits	
Applicable Limits	Test Data	(MHz)	Criteria
NOU	Low Channel	16.32	PASS
>500KHZ	Middle Channel	16.32	PASS
C The sulford Colorador	High Channel	16.32	PASS

TEST ITEM	6DB BANDWIDTH	C Alesadinolo	SC	NO.
TEST MODE	802.11n 20 with data rate 65	CC		TT.

	LIMITS AND MEASU	JREMENT RESULT	
Applicable Limite		Applicable Limits	
Applicable Limits	Test Dat	a (MHz)	Criteria
A A	Low Channel	17.57	PASS
>500KHZ	Middle Channel	17.58	PASS
Sobal Comment	High Channel	17.57	PASS

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TEST ITEM	6DB BANDWIDTH	E and C and a construction	C The Country
TEST MODE	802.11n 40 with data rate	9 135	
Come Fride Coole			
	LIMITS AND MEASUR	REMENT RESULT	
		Applicable Limits	
Applicable Limits	Test Data	(MHz)	Criteria
C Stream	Low Channel	36.36	PASS
>500KHZ	Middle Channel	36.36	PASS
	High Channel	36.36	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

802.11g TEST RESULT TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

STATUS



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	m Analyzer - Occupied BW					
	RF 50 Ω AC 1 2.437000000	Trig:	SENSE:INT er Freq: 2.437000000 GHz Free Run Avg Hol n: 30 dB	ALIGN AUTO Radio Sto Id:>10/10 Radio Dev		Frequency
10 dB/div	Ref 10.00 dBm			Mkr1 2.43 0.471	073 GHz 42 dBm	
-10.0	mh	mlundaadaud	an frankraker have been ha	when the		Center Freq 2.437000000 GHz
-20.0 -30.0 <mark>//w~~n//</mark> 1// -40.0	hunnow			Marine	Manyahuraj	
-50.0						
-70.0 -80.0						
Center 2.43 #Res BW 10			≠VBW 300 kHz		n 30 MHz 3.733 ms	CF Step 3.000000 MHz
Occupie	ed Bandwidt	ո .612 MHz	Total Power	17.6 dBm	Au	
Transmit	۲۵ Freq Error	-388 Hz	% of OBW Pow	ver 99.00 %		Freq Offset 0 Hz
x dB Ban	-	16.32 MHz	x dB	-6.00 dB		

TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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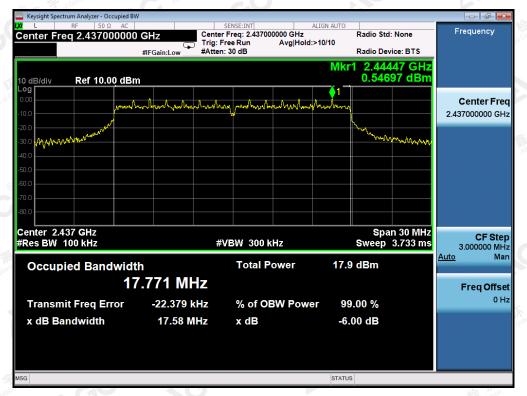
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802.11n (20) TEST RESULT

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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Keysight Spectrum Analyzer - Occupier L RF 50 Ω AG		SENSE:INT	ALI	GN AUTO		
enter Freq 2.4620000		Center Freq: 2.4620		Radio Sto		Frequency
0 dB/div Ref 10.00 d	<u>Bm</u>			Mkr1 2.45 -0.404	573 GHz 76 dBm	
00 .00 0.0	nhan Jawa Marana	Anolwy montant	una han hunder ha	when		Center Fre 2.462000000 GH
1.0				Low of the second secon	Amm Maria	
).0						
enter 2.462 GHz Res BW 100 kHz		#VBW 300	kHz	Spa Sweep	an 30 MHz 3.733 ms	CF Ste 3.000000 M⊦
Occupied Bandwi		Total F	Power	16.8 dBm		<u>Auto</u> Ma
	17.747 MI					Freq Offse
Transmit Freq Error	-30.211		BW Power	99.00 %		UF
x dB Bandwidth	17.57 N	lHz x dB		-6.00 dB		

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

802.11n (40) TEST RESULT TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

STATUS

Center Freq: 2.42200000 GHz Trig: Free Run Avg|Hol #Atten: 30 dB Frequenc Radio Std: None Center Fred Avg|Hold:>10/10 Radio Device: BTS #IFGain:Low 2.40574 GHz -3.6658 dBm Mkr1 Ref 10.00 dBm **Center Fred** 1 1 1 1.6.1.1 2.422000000 GHz www. Center 2.422 GHz #Res BW 100 kHz Span 60 MHz Sweep 7.467 ms CF Step #VBW 300 kHz 6.000000 MH Auto **Total Power** 16.9 dBm **Occupied Bandwidth** 36.366 MHz **Freq Offset** 0 Hz -15.907 kHz 99.00 % Transmit Freq Error % of OBW Power x dB Bandwidth 36.36 MHz x dB -6.00 dB STATUS

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Keysight Spectrum Analy								
L RF enter Freq 2.4	50 Ω AC 37000000	GHz #IFGain:Low	SENSE:INT Center Freq: 2.4 Trig: Free Run #Atten: 30 dB	7000000 GHz Avg Hold	ALIGN AUTO	Radio Sto Radio De		Frequency
	10.0 <u>0</u> dBm				Mkr		824 GHz '37 dBm	
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enter 2.437 GH es BW 100 kH			#VBW 30	0 kHz			an 60 MHz 7.467 ms	CF St 6.000000 N
Occupied B		ո .365 MF		l Power	16.8	8 dBm		<u>Auto</u> N
Transmit Fre		-18.298 k		OBW Pow	ver 99	9.00 %		Freq Off 0
x dB Bandwi	dth	36.36 M	Hz x dB		-6.	00 dB		
					STATU			

TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

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 USED

The same as described in section 6.

9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEAS	SUREMENT RESULT	
Annlinghla Limita	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 -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 Trig: Free Run Atten: 30 dB PNO: Fast IFGain:Low **Next Pea** Mkr1 923.40 MH I0 dB/div -59.772 dBm Ref 20.00 dBm Next Pk Right Next Pk Left Marker Delta Mkr→CF 1 Mkr→RefLvi More 1 of 2 Start 0.0300 GHz #Res BW 100 kHz Stop 1.0000 GHz Sweep 94.00 ms (30000 pts) #VBW 300 kHz Marker 1 2.395986532884 GHz PNO: Fast IFGain:Low Avg Type: Log-Pwr Avg|Hold:>100/100 Peak Search 34 Trig: Free Run Atten: 30 dB TYP DE Next Peak Mkr1 2.395 99 GHz -43.401 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 134.0 ms (30000 pts) #VBW 300 kHz Sweep

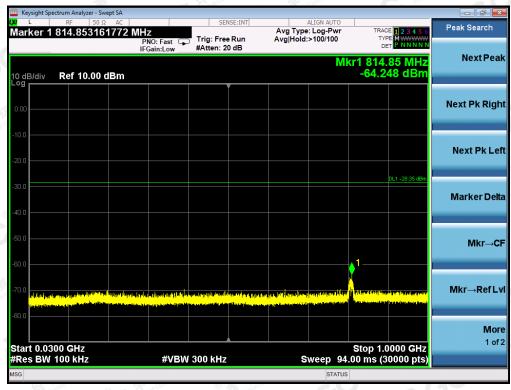
TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11b FOR MODULATION IN LOW CHANNEL

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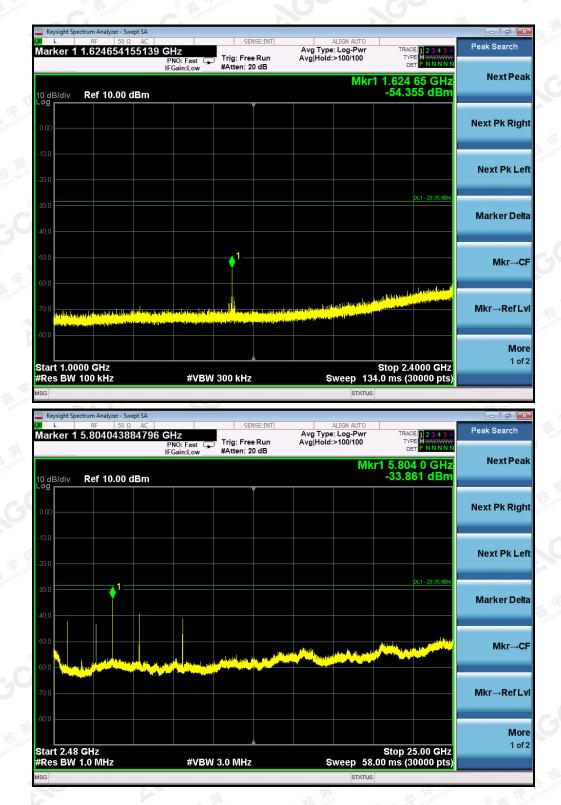


TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11b FOR MODULATION IN MIDDLE CHANNEL

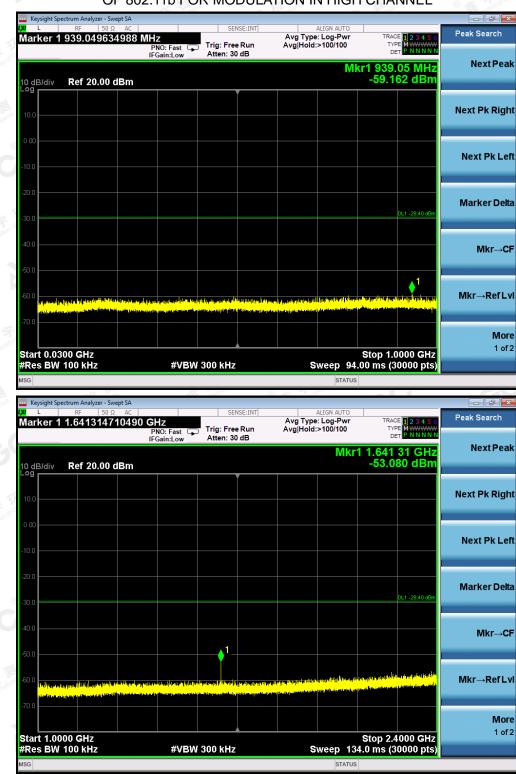


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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11b FOR MODULATION IN HIGH CHANNEL

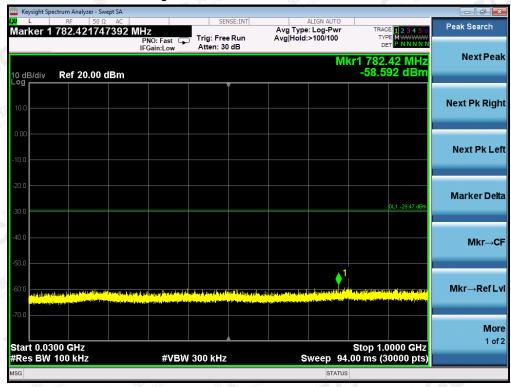
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TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11g FOR MODULATION IN LOW CHANNEL



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larker 1	RF 50	οΩ AC 649555	GHz PNO: Fast	Takes Free	e Run	Avg Typ Avg Hold	ALIGN AUTO e: Log-Pwr d:>100/100	TRAC	CE 1 2 3 4 5 6 PE M ET P N N N N N	Peak Search
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SG			#VBV	N 300 kHz				· · ·	10000 pts)	- 162 par
SG	oectrum Analyzer -	Swept SA	#VBV	_	NSE:INT		STATUS ALIGN AUTO			
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G dB/div	RF 50	ο Ω AC 009700	GHZ PNO: Fast	SE	NSE:INT	Avg Typ	ALIGN AUTO De: Log-Pwr d:>100/100	TRAG TYI DI T 1 5.80		Peak Search Next Pe
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36 Keysight Sp L Iarker 1 0	Ref 20.00	ο Ω AC 009700	CHZ PNO: Fast IFGain:Low	SE	NSE:INT	Avg Typ Avg Hold	ALIGN AUTO e: Log-Pwr d:>100/100	Trad Tri D Tr1 5.80 -33.5	E 1 2 3 4 5 6 E MANNER P NNNNN 0 3 GHz 91 dBm 0.1 -29 47 dBm	Peak Search Next Pe Next Pk Rig Next Pk Li Marker De Mkr→Ref L

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Keysight Sp L	RF 50 Ω	AC		SEN	ISE:INT		ALIGN AUTO				
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	J00 GHZ										
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Isg Keysight Sp Z L I Marker 1 I 10 G I 0 0 I 10 I I I 0 0 I I I 10 I I I I I 10 I <td>2 100 kHz PF 50 Ω 1 2.39985999 Ref 20.00 d</td> <td>AC 53333 GI P IF Bm</td> <td>Hz NO: Fast Gain:Low</td> <td>Trig: Free Atten: 30</td> <td></td> <td>Avg Type Avg Hold</td> <td>STATU: ALIGN AUTO E: LOG!-Pwr :>100/100 MIKI</td> <td>5 -1 2.33 -49</td> <td>TRACE 1 2 3 Type Mww DET PNN 99 86 C 0.009 d</td> <td>4 5 6 ////////////////////////////////////</td> <td>Peak Search Next Pea Next Pk Rig Next Pk Le Marker De Mkr->Ref L Mo</td>	2 100 kHz PF 50 Ω 1 2.39985999 Ref 20.00 d	AC 53333 GI P IF Bm	Hz NO: Fast Gain:Low	Trig: Free Atten: 30		Avg Type Avg Hold	STATU: ALIGN AUTO E: LOG!-Pwr :>100/100 MIKI	5 -1 2.33 -49	TRACE 1 2 3 Type Mww DET PNN 99 86 C 0.009 d	4 5 6 ////////////////////////////////////	Peak Search Next Pea Next Pk Rig Next Pk Le Marker De Mkr->Ref L Mo
SG Keysight Sp 0 L Image: Constraint Sp 0 L Image: Constraint Sp 0 Constraint Sp Image: Constraint Sp 10 Constraint Sp Image: Constraint Sp	2 100 kHz PF 50 Ω 1 2.39985999 Ref 20.00 d	AC 53333 GI P IF Bm	HZ NO: Fast Gain:Low	Trig: Free Atten: 30			STATU: ALIGN AUTO E: LOG!-Pwr :>100/100 MIKI	5 -1 2.39 -49	TRACE 1 2 3 TYPE MWW DET PN 0 99 86 C 0.009 d		Peak Search Next Pea Next Pk Rig Next Pk Lo Marker De Mkr-A

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

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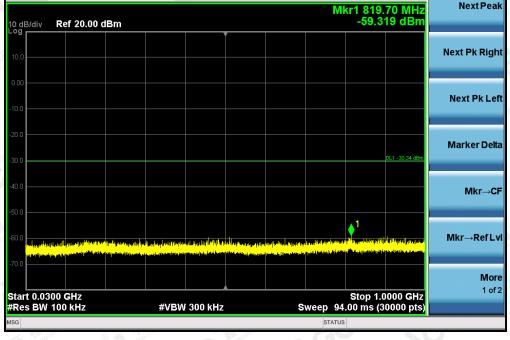




TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE



OF 802.11g FOR MODULATION IN HIGH CHANNEL



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<mark>X</mark> ∟ Marker 1	RF 50 1 2.373585	786102	GH7	SEI			ALIGN AUTO e: Log-Pwr	TRA	CE 1 2 3 4 5	Peak Search
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SG	pectrum Analyzer -	Swept SA	#VBI	W 300 KHZ				•	30000 pts	
ISG Keysight Sp U L	pectrum Analyzer - RF 50	Ω AC		_	NSE:INT		STATUS ALIGN AUTO	TRA	ACE 1 2 3 4 5	Peak Search
ISG Keysight Sp U L	pectrum Analyzer -	Ω AC	GHZ PNO: Fast	SEI	NSE:INT	Avg Type	STATUS	TRA	ACE 12345	Peak Search
SG Keysight Sp U L	pectrum Analyzer - RF 50	Ω AC	GHz	SEI	NSE:INT	Avg Type	ALIGN AUTO e: Log-Pwr I:>100/100	TRA T\ [[]		Peak Search Next Pe
SG Keysight Sf U Marker 1 0 dB/div	pectrum Analyzer - RF 50	Ω AC 775393	GHZ PNO: Fast	SEI	NSE:INT	Avg Type	ALIGN AUTO e: Log-Pwr I:>100/100	TRA T\ [[]	ACE 12345 PPE MWWWW DET PNNNN	Peak Search Next Pe
Keysight Sp Keysight Sp L Marker 1 Marker 1	pectrum Analyzer - RF 50 1 7.393761	Ω AC 775393	GHZ PNO: Fast	SEI	NSE:INT	Avg Type	ALIGN AUTO e: Log-Pwr I:>100/100	TRA T\ [[]		Peak Search Next Pe
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Keysight Sy Keysight Sy Marker / Marker / 10 dB/div 0 00	pectrum Analyzer - RF 50 1 7.393761	Ω AC 775393	GHZ PNO: Fast	SEI	NSE:INT	Avg Type	ALIGN AUTO e: Log-Pwr I:>100/100	TRA T\ [[]		Peak Search Next Pe
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sg Keysight Sj C dB/div O dB/div	pectrum Analyzer - RF 50 1 7.393761	Ω AC 775393	GHZ PNO: Fast	SEI	NSE:INT	Avg Type	ALIGN AUTO e: Log-Pwr I:>100/100	TRA T\ [[]		Peak Search Next Pe Next Pk Rig Next Pk L
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sg Keysight Sj C dB/div O dB/div O dB/div O dB/div O 00 0.0	pectrum Analyzer - RF 50 1 7.393761	Ω AC 775393 () dBm	GHZ PNO: Fast	Trig: Fre Atten: 30	NSE:INT	Avg Type Avg Hold	ALIGN AUTO e: Log-Pwr :>100/100	TRA TT r1 7.39 -33.6	CE 1 2 3 4 5 PE MWWWW DET NNNN 3 8 GHz 389 dBm	Peak Search Next Pe Next Pk Rig Next Pk L
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IC dB/div	pectrum Analyzer - RF 50 1 7.393761	Ω AC 775393 () dBm	GHZ PNO: Fast	Trig: Fre Atten: 30	NSE:INT	Avg Type Avg Hold	ALIGN AUTO e: Log-Pwr :>100/100	TRA TT r1 7.39 -33.6	CE 1 2 3 4 5 PE MWWWW DET NNNN 3 8 GHz 389 dBm	Peak Search Next Pe Next Pk Rig Next Pk L Marker De
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ISG Keysight Si C L Marker 1 10.0 dB/div .9 g .0 00 .0 00 .0 00 .0 0 .0 0 .0 0 .0 0	pectrum Analyzer - RF 50 1 7.393761	Ω AC 775393 () dBm	GHZ PNO: Fast	Trig: Fre Atten: 30	NSE:INT	Avg Type Avg Hold	ALIGN AUTO e: Log-Pwr :>100/100	TRA TT r1 7.39 -33.6	CE 1 2 3 4 5 PE MWWWW DET NNNN 3 8 GHz 389 dBm	Peak Search Next Pe Next Pk Rig Next Pk L Marker De Mkr-ref
SG SG SG SC SC SC SC SC SC SC SC SC SC	Pectrum Analyzer - 50 RF 50 Ref 20.00	Ω AC 775393 () dBm	GHZ PNO: Fast	Trig: Fre Atten: 30	NSE:INT	Avg Type Avg Hold	ALIGN AUTO e: Log-Pwr :>100/100	TR4 TR4 TR T T 7.39 -33.6	CE 1 2 3 4 5 6 PPE P NNNN 3 8 GH2 389 dBm	Peak Search Next Pe Next Pk Rig Next Pk L Marker De Mkr
SG Keysight Sj C L Aarker 1 0 dB/div 0 d 0 dB/div 0 d 0 d 0 d 0 d 0 d 0 d 0 d 0 d	Pectrum Analyzer - 50 RF 50 Ref 20.00	Ω AC 775393 () dBm	CHZ PNO: Fast IFGain:Low	Trig: Fre Atten: 30	NSE:INT	Avg Type Avg Hold	ALIGN AUTO E: Log-Pwr :>100/100 Mk	TRA TT T T1 7.39 -33.6	CE 1 2 3 4 5 PE MWWWW DET NNNN 3 8 GHz 389 dBm	Peak Search Next Pe Next Pk Rig Next Pk L Marker De Mkr→Ref I

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Keysight Sport Control Spor	RF 50 \$			SENSE:INT	ALIGN AUTO		Deels O
larker 1	69.771325	711 MHz	NO: Fast G		Avg Type: Log-Pwr Avg Hold:>100/100	TRACE 1 2 3 4 5 6 TYPE MWWWWW	Peak Search
			Gain:Low	Atten: 30 dB		DET PNNNN	NextPea
0 dB/div	Ref 20.00	dBm			N	lkr1 69.77 MHz -55.331 dBm	HCATT C
	Rei 20.00						
10.0							Next Pk Rig
10.0							
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20.0							Marker Del
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40.0							Mkr→C
50.0	1						
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70.0	in a substantia de la constantia de la cons	lili de efectuera production	an U. e. ell i Middel	ala kana da da sa mining sa min	and any party of the second		
							Мо
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Start 0.03			_			Stop 1.0000 GHz	
Res BW	300 GHz 100 kHz		#VBV	V 300 kHz		Stop 1.0000 GHz .00 ms (30000 pts)	
			#VBV	V 300 kHz	Sweep 94		
Res BW	100 kHz		#VBV		STATUS		
Res BW SG Keysight Sp L	100 kHz	2 AC 90666 G	Hz	SENSE:INT	STATUS	.00 ms (30000 pts)	
Res BW SG Keysight Sp L	100 kHz ectrum Analyzer - Sv RF 50 S	2 AC 90666 G		SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	00 ms (30000 pts)	Peak Search
Res BW sg Keysight Sp 2 L Aarker 1	100 kHz ectrum Analyzer - Sv RF 50 <i>G</i> 2.3997199	2 AC 190666 G F IF	Hz PNO: Fast	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	00 ms (30000 pts)	
Res BW SG Keysight Sp L	100 kHz ectrum Analyzer - Sv RF 50 S	2 AC 190666 G F IF	Hz PNO: Fast	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	00 ms (30000 pts)	Peak Search
Keysight Sp Keysight Sp Aarker 1 0 dB/div	100 kHz ectrum Analyzer - Sv RF 50 <i>G</i> 2.3997199	2 AC 190666 G F IF	Hz PNO: Fast	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	00 ms (30000 pts)	Peak Search
Keysight Sp Keysight Sp L Marker 1 0 dB/div	100 kHz ectrum Analyzer - Sv RF 50 <i>G</i> 2.3997199	2 AC 190666 G F IF	Hz PNO: Fast	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	00 ms (30000 pts)	Peak Search Next Pea
Keysight Sp Keysight Sp Aarker 1 0 dB/div	100 kHz ectrum Analyzer - Sv RF 50 <i>G</i> 2.3997199	2 AC 190666 G F IF	Hz PNO: Fast	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	00 ms (30000 pts)	Peak Search Next Pea
Res BW sc Keysight Sp L Marker 1 0. dB/div 0.00	100 kHz ectrum Analyzer - Sv RF 50 <i>G</i> 2.3997199	2 AC 190666 G F IF	Hz PNO: Fast	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	00 ms (30000 pts)	Peak Search Next Pea
Res BW sg Keysight Sp d L Aarker 1 0 dB/div 0 dB/div	100 kHz ectrum Analyzer - Sv RF 50 <i>G</i> 2.3997199	2 AC 190666 G F IF	Hz PNO: Fast	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	00 ms (30000 pts)	Peak Search Next Pea Next Pk Rig
Res BW sc Keysight Sp L Marker 1 0. dB/div 0.00	100 kHz ectrum Analyzer - Sv RF 50 <i>G</i> 2.3997199	2 AC 190666 G F IF	Hz PNO: Fast	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	00 ms (30000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Le
Res BW sc Keysight Sp L Marker 1 0 dB/div 0 dB/div 0 0 10.0	100 kHz ectrum Analyzer - Sv RF 50 <i>G</i> 2.3997199	2 AC 190666 G F IF	Hz PNO: Fast	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	00 ms (30000 pts)	Peak Search Next Pea Next Pk Rig
Res BW SG Keysight Sp Ø Aarker 1 O dB/div O dB/div 0 0.00 10.0 20.00 30.0	100 kHz ectrum Analyzer - Sv RF 50 <i>G</i> 2.3997199	2 AC 190666 G F IF	Hz PNO: Fast	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	00 ms (30000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Le
Res BW SG Keysight Sp Ø Aarker 1 O dB/div O dB/div 0 0.00 10.0 20.00 30.0	100 kHz ectrum Analyzer - Sv RF 50 <i>G</i> 2.3997199	2 AC 190666 G F IF	Hz PNO: Fast	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	00 ms (30000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Le
Res BW SG SG Code/div Odd/div Odd/div </td <td>100 kHz ectrum Analyzer - Sv RF 50 <i>G</i> 2.3997199</td> <td>2 AC 190666 G F IF</td> <td>Hz PNO: Fast</td> <td>SENSE:INT</td> <td>ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100</td> <td>00 ms (30000 pts)</td> <td>Peak Search Next Pea Next Pk Rig Next Pk Le</td>	100 kHz ectrum Analyzer - Sv RF 50 <i>G</i> 2.3997199	2 AC 190666 G F IF	Hz PNO: Fast	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	00 ms (30000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Le
Ress BW SG Keysight Sp Ø Aarker 1 O dB/div 0	100 kHz ectrum Analyzer - Sv RF 50 <i>G</i> 2.3997199	2 AC 190666 G F IF	Hz PNO: Fast	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	00 ms (30000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Le
Ress BW SG	100 kHz ectrum Analyzer - Sv RF 50 Q 2.3997199 Ref 20.00	2 AC 90666 G F dBm	HZ PNO: Fast Gain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100 Mkr	00 ms (30000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Le Marker De
Ress BW SG	100 kHz ectrum Analyzer - Sv RF 50 Q 2.3997199 Ref 20.00	2 AC 90666 G F dBm	HZ PNO: Fast Gain:Low	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100 Mkr	00 ms (30000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Le Marker De
Res BW sc Keysight Sp %	100 kHz ectrum Analyzer - Sv RF 50 Q 2.3997199 Ref 20.00	2 AC 90666 G F dBm	HZ PNO: Fast Gain:Low	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100 Mkr	00 ms (30000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Le
Res BW SG	100 kHz ectrum Analyzer - Sv RF 2.3997199 Ref 20.00	2 AC 90666 G F dBm	HZ PNO: Fast Gain:Low	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100 Mkr	00 ms (30000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Le Marker De Mkr→Ref L

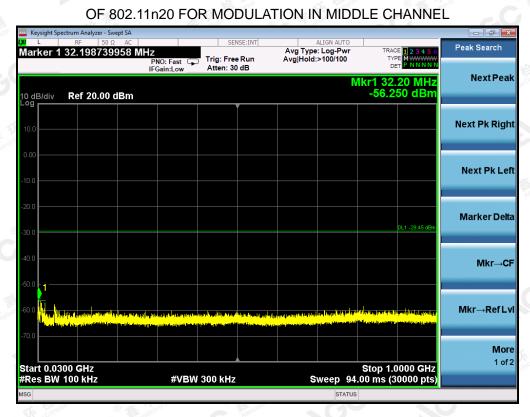
TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11n20 FOR MODULATION IN LOW CHANNEL

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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE



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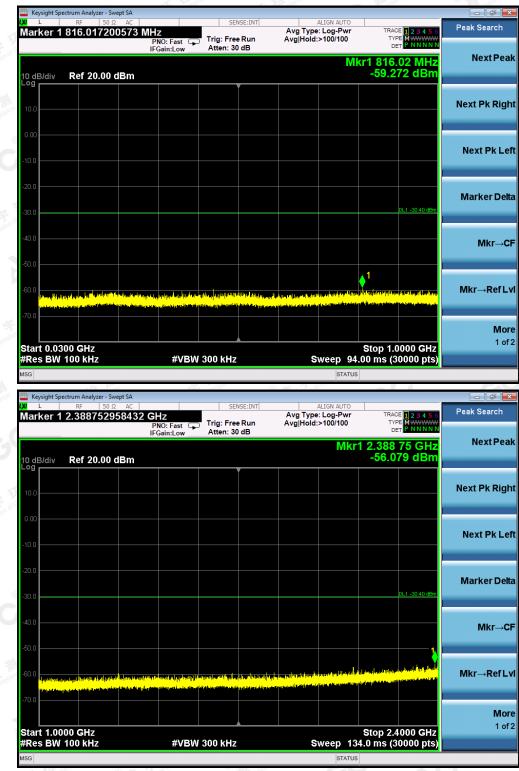


🚾 Keysight Sp 💴 L	RF 50 Ω			SE	NSE:INT		ALIGN AUTO			Deels Oceands			
Marker 1	2.39948664		PNO: Fast	Trig: Fre		Avg Typ Avg Hold	e: Log-Pwr i:>100/100		CE 1 2 3 4 5 6 PE M WWWWW ET P N N N N N	Peak Search			
			IFGain:Low	Atten: 3	0 dB		Mkr		49 GHz	Next Pea			
l0 dB/div _og ┏━━━	Ref 20.00 d	Bm						-48.7	'88 dBm				
					Ĭ					Next Pk Rig			
10.0										NCALL KING			
0.00													
-10.0										Next Pk Le			
-20.0										Marker Del			
-30.0									DL1 -29.45 dBm				
-40.0										Mkr→C			
-50.0									1	WIKI ->C			
-30.0													
-60.0	la marile i la maria de la compositione de la compositione de la compositione de la compositione de la composit	Freenweiter	etti astashiretti atrett		ى مەڭ بەڭ بىلە مالەتتار د ە		a da a la calendaria Al calendaria da anti-	las <mark>beste different</mark> Senare en senare		Mkr→RefL			
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										Mo 1 of			
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			#VB\	N 300 kHz			Sweep 13	Stop 2. 4.0 ms (3	4000 GHz 30000 pts)				
≇Res BW			#VBI	N 300 kHz		ŝ	Sweep 13	4.0 ms (4000 GHz 30000 pts)				
#Res BW	100 kHz	ent SA	#VB\	N 300 kHz		5		4.0 ms (4000 GHz 30000 pts)				
#Res BW	100 kHz ectrum Analyzer - Swe RF 50 Ω	AC			NSE:INT		STATUS ALIGN AUTO	44.0 ms (3	30000 pts)	Peak Search			
#Res BW	100 kHz ectrum Analyzer - Swe	AC 8035 (SE	NSE:INT	Avg Typ	STATUS	4.0 ms (4000 GHz 30000 pts) CE 123456 PE MWWWW				
#Res BW ISG Keysight Sp Keysight Sp Keysi	100 KHz ectrum Analyzer - Swe RF 50 Ω 7.30144104	AC 18035 (GHZ PNO: Fast	SE Trig: Fre	NSE:INT	Avg Typ	ALIGN AUTO e: Log-Pwr d:>100/100	4.0 ms (3	20000 pts)	Peak Search			
#Res BW ASG Keysight Sp X L Marker 1	100 kHz ectrum Analyzer - Swe RF 50 Ω	AC 18035 (GHZ PNO: Fast	SE Trig: Fre	NSE:INT	Avg Typ	ALIGN AUTO e: Log-Pwr d:>100/100	4.0 ms (3	30000 pts) CE 1 2 3 4 5 6 PE MWWWW ET P N N N N	Peak Search			
#Res BW ISG Keysight Sp Keysight Sp Keysi	100 KHz ectrum Analyzer - Swe RF 50 Ω 7.30144104	AC 18035 (GHZ PNO: Fast	SE Trig: Fre	NSE:INT	Avg Typ	ALIGN AUTO e: Log-Pwr d:>100/100	4.0 ms (3	20000 pts)	Peak Search Next Pea			
#Res BW ISG Keysight Sp X L Marker 1 10 dB/div O 10 dB/div O 10 dB/div	100 KHz ectrum Analyzer - Swe RF 50 Ω 7.30144104	AC 18035 (GHZ PNO: Fast	SE Trig: Fre	NSE:INT	Avg Typ	ALIGN AUTO e: Log-Pwr d:>100/100	4.0 ms (3	20000 pts)	Peak Search Next Pea			
#Res BW ISG Keysight Sp X L Marker 1 Marker 1 10 dB/div	100 KHz ectrum Analyzer - Swe RF 50 Ω 7.30144104	AC 18035 (GHZ PNO: Fast	SE Trig: Fre	NSE:INT	Avg Typ	ALIGN AUTO e: Log-Pwr d:>100/100	4.0 ms (3	20000 pts)	Peak Search Next Pea Next Pk Rig			
#Res BW Asc Marker 1 Marker 1 10 dB/div 0 0	100 KHz ectrum Analyzer - Swe RF 50 Ω 7.30144104	AC 18035 (GHZ PNO: Fast	SE Trig: Fre	NSE:INT	Avg Typ	ALIGN AUTO e: Log-Pwr d:>100/100	4.0 ms (3	20000 pts)	Peak Search Next Pea Next Pk Rig			
#Res BW Asc Marker 1 Marker 1 10 dB/div 0 0	100 KHz ectrum Analyzer - Swe RF 50 Ω 7.30144104	AC 18035 (GHZ PNO: Fast	SE Trig: Fre	NSE:INT	Avg Typ	ALIGN AUTO e: Log-Pwr d:>100/100	4.0 ms (3	20000 pts)	Peak Search Next Pea Next Pk Rig			
#Res BW Asc Marker 1 10 dB/div 00 10.0 -0.00 -10.0 -20.0	100 kHz ectrum Analyzer - Swe RF 50 Ω 7.30144104 Ref 20.00 d	AC 18035 0 IBM	GHZ PNO: Fast	SE Trig: Fre	NSE:INT	Avg Typ	ALIGN AUTO e: Log-Pwr d:>100/100	4.0 ms (3	20000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Le			
#Res BW AsG Keysight Sp X L Marker 1 0 dB/div 0 0 10.0 10.0 10.0 10.0 10.0 10.0 10.0	100 kHz ectrum Analyzer - Swe RF 50 Ω 7.30144104 Ref 20.00 d	AC 18035 (GHZ PNO: Fast	SE Trig: Fre	NSE:INT	Avg Typ	ALIGN AUTO e: Log-Pwr d:>100/100	4.0 ms (3	20000 pts)	Peak Search Next Pea Next Pk Rig Next Pk Le			
#Res BW tsg Keysight Sp Z Z Marker 1 10 dB/div 0 0.00 10.0 20.0	100 kHz ectrum Analyzer - Swe RF 50 Ω 7.30144104 Ref 20.00 d	AC 18035 0 IBM	GHZ PNO: Fast	SE Trig: Fre	NSE:INT	Avg Typ	ALIGN AUTO e: Log-Pwr d:>100/100	4.0 ms (3	CC 2 3 4 5 6 PPE 2 3 6 6 PPE 2 3 6 PPE	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del			
#Res BW Asg Keysight Sp V L V Arg L V Asg L V	100 kHz ectrum Analyzer - Swe RF 50 Ω 7.30144104 Ref 20.00 d	AC 18035 0 IBM	GHZ PNO: Fast	SE Trig: Fre	NSE:INT	Avg Typ	ALIGN AUTO e: Log-Pwr d:>100/100	14.0 ms (2 1784 1777 17.30 -34.3	CC 2 3 4 5 6 PPE 2 3 6 6 PPE 2 3 6 PPE	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del			
#Res BW Asc Keysight Sp X	100 kHz ectrum Analyzer - Swe RF 50 Ω 7.30144104 Ref 20.00 d	AC 18035 0 IBM	GHZ PNO: Fast	SE Trig: Fre	NSE:INT	Avg Typ	ALIGN AUTO e: Log-Pwr d:>100/100	14.0 ms (2 1784 1777 17.30 -34.3	CC 2 3 4 5 6 PPE 2 3 6 6 PPE 2 3 6 PPE	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del Mkr→C			
#Res BW Ass Keysight Sp Warker 1 Marker 1 0 dB/div 0 0 .000 .100 .200 .300	100 kHz ectrum Analyzer - Swe RF 50 Ω 7.30144104 Ref 20.00 d	AC 18035 0 IBM	GHZ PNO: Fast	SE Trig: Fre	NSE:INT	Avg Typ	ALIGN AUTO e: Log-Pwr d:>100/100	14.0 ms (2 1784 1777 17.30 -34.3	CC 2 3 4 5 6 PPE 2 3 6 6 PPE 2 3 6 PPE	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del			
Marker 1 10 dB/div - og 10.0 - 0.00 -	100 kHz ectrum Analyzer - Swe RF 50 Ω 7.30144104 Ref 20.00 d	AC 18035 0 IBM	GHZ PNO: Fast	SE Trig: Fre	NSE:INT	Avg Typ	ALIGN AUTO e: Log-Pwr d:>100/100	14.0 ms (2 1784 1777 17.30 -34.3	CC 2 3 4 5 6 PPE 2 3 6 6 PPE 2 3 6 PPE	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del Mkr→C			
#Res BW Itsg Keysight Sp Marker 1 10 dB/div -0 dB	100 KHz ectrum Analyzer - Swe RF 50 Ω Ref 20.00 d	AC 18035 0 IBM	GHZ PNO: Fast	SE Trig: Fre	NSE:INT	Avg Typ	ALIGN AUTO e: Log-Pwr d:>100/100	44.0 ms (2 TRA TY cr1 7.30 -34.3	CC 2 3 4 5 6 PPE 2 3 6 6 PPE 2 3 6 PPE	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del Mkr→C			

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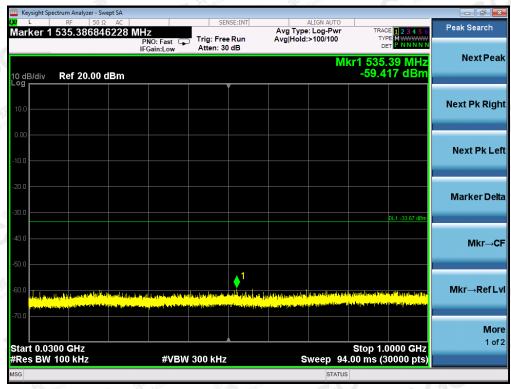
TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11n20 FOR MODULATION IN HIGH CHANNEL

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TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11n40 FOR MODULATION IN LOW CHANNEL



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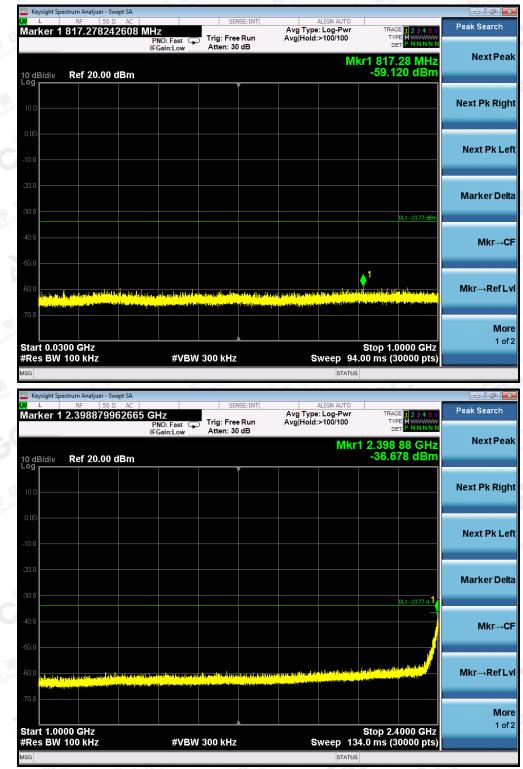


XI L	RF 50 Ω		SENSE:INT	ALIGN AUTO	TRACE	Peak Search
larker 1	2.3995333	PNO: Fast	Trig: Free Run	Avg Type: Log-Pwr Avg Hold:>100/100	TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N N	
		IFGain:Low _	Atten: 30 dB	Mkr1	2.399 53 GHz	Next Pea
0 dB/div	Ref 20.00 c	IBm			-35.639 dBm	
- ^{og}			Ĭ			
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0.00						
-10.0						Next Pk Le
-20.0						Marker Del
-30.0					1	
					DL1 -33.67 d→	
-40.0						Mkr→C
-50.0						
					and a start	
-60.0 <mark>WM 4000</mark>	n tha has to a firm on a state that the	<mark>de a la companya da companya da companya da da</mark>	an in the second se		an dia kaominina dia mandri aminina dia mandri aminina. Ny INSEE dia mampina mampina mampina mandri aminina dia mampina dia mampina dia mampina dia mampina dia mampina	Mkr→RefL
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10.0						Mo
Start 1.00	00 GH7				Stop 2.4000 GHz	
#Res BW	100 kHz	ept SA	W 300 kHz	Sweep 134	Stop 2.4000 GHz .0 ms (30000 pts)	1 o
FRes BW	100 kHz ectrum Analyzer - Swe RF 50 Ω	ept SA AC 060835 GHz	SENSE:INT	Sweep 134 STATUS ALIGN AUTO Avg Type: Log-Pwr	.0 ms (30000 pts)	1 of
#Res BW	100 kHz ectrum Analyzer - Swe RF 50 Ω	ept SA	SENSE:INT	Augn Auto Augn Auto Avg Type: Log-Pwr Avg Hoid:>100/100	.0 ms (30000 pts)	1 of
#Res BW	100 kHz ectrum Analyzer - Sw RF 50 Ω 24.4453250	AC AC D60835 GHz PN0: Fast IFGain:Low	SENSE:INT	Augn Auto Augn Auto Avg Type: Log-Pwr Avg Hoid:>100/100	.0 ms (30000 pts)	1 of
XI L	100 kHz ectrum Analyzer - Swe RF 50 Ω	AC AC D60835 GHz PN0: Fast IFGain:Low	SENSE:INT	Augn Auto Augn Auto Avg Type: Log-Pwr Avg Hoid:>100/100	.0 ms (30000 pts)	1 of
Keysight Spe X L Marker 1 10 dB/div	100 kHz ectrum Analyzer - Sw RF 50 Ω 24.4453250	AC AC D60835 GHz PN0: Fast IFGain:Low	SENSE:INT	Augn Auto Augn Auto Avg Type: Log-Pwr Avg Hoid:>100/100	.0 ms (30000 pts)	1 of Peak Search Next Pea
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Keysight Spe X L Marker 1 10 dB/div	100 kHz ectrum Analyzer - Sw RF 50 Ω 24.4453250	AC AC D60835 GHz PN0: Fast IFGain:Low	SENSE:INT	Augn Auto Augn Auto Avg Type: Log-Pwr Avg Hoid:>100/100	.0 ms (30000 pts)	1 of Peak Search Next Pea
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Keysight Spectra Keysight Spectra Marker 1 10. dB/div 	100 kHz ectrum Analyzer - Sw RF 50 Ω 24.4453250	AC AC D60835 GHz PN0: Fast IFGain:Low	SENSE:INT	Augn Auto Augn Auto Avg Type: Log-Pwr Avg Hoid:>100/100	.0 ms (30000 pts)	1 of Peak Search Next Pea Next Pk Rigi
#Res BW Asg Keysight Spe X L V Narker 1 0 dB/div 0 00 -0 10 0 -0 10 0 -0 10 0 -0 10 0 -0 10 0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0	100 kHz ectrum Analyzer - Sw RF 50 Ω 24.4453250	AC AC D60835 GHz PN0: Fast IFGain:Low	SENSE:INT	Augn Auto Augn Auto Avg Type: Log-Pwr Avg Hoid:>100/100	.0 ms (30000 pts)	1 of Peak Search Next Pea Next Pk Rigi
#Res BW Asg Keysight Spe X L V Narker 1 0 dB/div 0 00 -0 10 0 -0 10 0 -0 10 0 -0 10 0 -0 10 0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0	100 kHz ectrum Analyzer - Sw RF 50 Ω 24.4453250	AC AC D60835 GHz PN0: Fast IFGain:Low	SENSE:INT	Augn Auto Augn Auto Avg Type: Log-Pwr Avg Hoid:>100/100	.0 ms (30000 pts)	1 of Peak Search Next Pea Next Pk Rigi
#Res BW Itsg Keysight Spectrum Marker 1 IO dB/div 0 0.00 10.0 20.0	100 kHz ectrum Analyzer - Sw RF 50 Ω 24.4453250	AC AC D60835 GHz PN0: Fast IFGain:Low	SENSE:INT	Augn Auto Augn Auto Avg Type: Log-Pwr Avg Hoid:>100/100	.0 ms (30000 pts)	1 of Peak Search Next Pea Next Pk Rig
Keysight Spe Marker 1 10 dB/dlv 00 000 <	100 kHz ectrum Analyzer - Sw RF 50 Ω 24.4453250	AC AC D60835 GHz PN0: Fast IFGain:Low	SENSE:INT	Augn Auto Augn Auto Avg Type: Log-Pwr Avg Hoid:>100/100	0 ms (30000 pts)	1 of Peak Search Next Pea Next Pk Rigi Next Pk Le
Keysight Spe (Keysight Spe Marker 1 10 dB/div 00 dB/div 0 dB/div <	100 kHz ectrum Analyzer - Sw RF 50 Ω 24.4453250	AC AC D60835 GHz PN0: Fast IFGain:Low	SENSE:INT	Sweep 134	.0 ms (30000 pts)	1 of Peak Search Next Pea Next Pk Rig
Keysight Speck Keysight Speck Marker 1 10 dB/div 00 dB/div	100 kHz ectrum Analyzer - Sw RF 50 Ω 24.4453250	AC AC D60835 GHz PN0: Fast IFGain:Low	SENSE:INT	Augn Auto Augn Auto Avg Type: Log-Pwr Avg Hoid:>100/100	0 ms (30000 pts)	1 of Peak Search Next Pea Next Pk Rigi Next Pk Le
#Res BW Asc Keysight Spectrum Marker 1 10 dB/div -00 dB/d	100 kHz ectrum Analyzer - Sw RF 50 Ω 24.4453250	AC AC D60835 GHz PN0: Fast IFGain:Low	SENSE:INT	Sweep 134	0 ms (30000 pts)	1 of Peak Search Next Pea Next Pk Rigit Next Pk Le Marker Del
#Res BW Iss Keysight Spectrum Marker 1 10 dB/div 00 dB/div	100 kHz ectrum Analyzer - Sw RF 50 Ω 24.4453250	AC AC D60835 GHz PN0: Fast IFGain:Low	SENSE:INT	Sweep 134	0 ms (30000 pts)	1 of Peak Search Next Pea Next Pk Rigi Next Pk Le
#Res BW Issa Issa Keysight Spectrum Image: Spectrum Marker 1 Image: Spectrum 10 dB/div Image: Spectrum -0 g Image: Spectrum 10 dB/div Image: Spectrum -0 g Image: Spectrum 10 dB/div Image: Spectrum -0 g Image: Spect	100 kHz ectrum Analyzer - Sw RF 50 Ω 24.4453250	AC AC D60835 GHz PN0: Fast IFGain:Low	SENSE:INT	Sweep 134	0 ms (30000 pts)	1 of Peak Search Next Pea Next Pk Rigit Next Pk Let Marker Del
#Res BW Keysight Speck Marker 1 0	100 kHz ectrum Analyzer - Sw RF 50 Ω 24.4453250	AC AC D60835 GHz PN0: Fast IFGain:Low	SENSE:INT	Sweep 134	0 ms (30000 pts)	1 of Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del Mkr→C Mkr→Ref L
#Res BW Asg Keysight Spe X L Marker 1 10 dB/div Log 10.0	100 kHz ectrum Analyzer - Sw № 50 Ω 24.445325(Ref 20.00 c 	AC AC D60835 GHz PN0: Fast IFGain:Low	SENSE:INT	Sweep 134	0 ms (30000 pts)	1 of Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del Mkr→Ref L

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STATUS



TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11n40 FOR MODULATION IN MIDDLE CHANNEL

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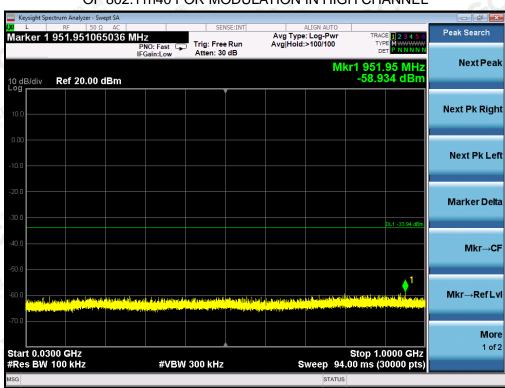
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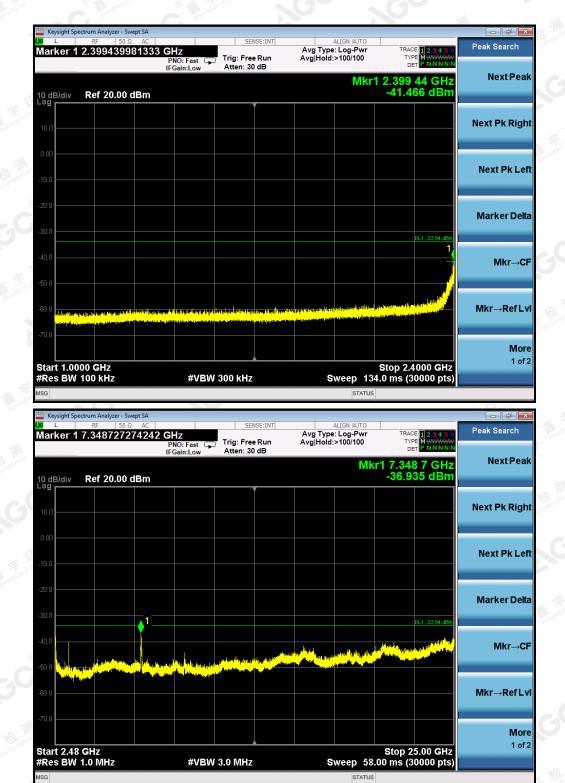
TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE



OF 802.11n40 FOR MODULATION IN HIGH CHANNEL

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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 Computer	The Compliance	© 41
TEST MODE	802.11b with data rate 1	C The shift of Con	6 Alestations	60

Channel No.	nnel No. Power density (dBm/20kHz)		Result	
Low Channel	-3.279	8	Pass	
Middle Channel	-3.376	8	Pass	
High Channel	-4.388	8	Pass	

an	TEST ITEM	POWER SPECTRAL DENSITY	A lo	
	TEST MODE	802.11g with data rate 6	The Bandance	S The word count

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-5.953	5 B 8 5 5 6	Pass
Middle Channel	-5.957	8	Pass
High Channel	-6.303	8	Pass



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TEST ITEM	POWER SPECTRAL DENSITY	The Comparison The	Completee
TEST MODE	802.11n 20 with data rate 6.5	C Automatic C Repairing of Co	C Allestation
Compare The Compare			0
Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-5.265	° * 8 • C	Pass
Middle Channel	-5.312	8	Pass
High Channel	-6.281	8	Pass

TEST ITEM	POWER SPECTRAL DENSITY	NO -	107	5
TEST MODE	802.11n 40 with data rate 13.5	The Constance	The the second second	© A

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-8.987	8	Pass
Middle Channel	-9.097	8	Pass
High Channel	-9.085	8	Pass







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

TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

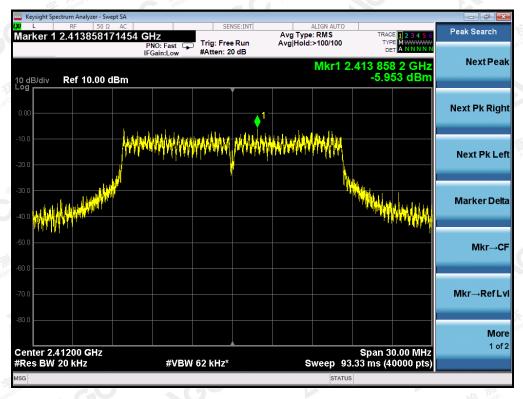


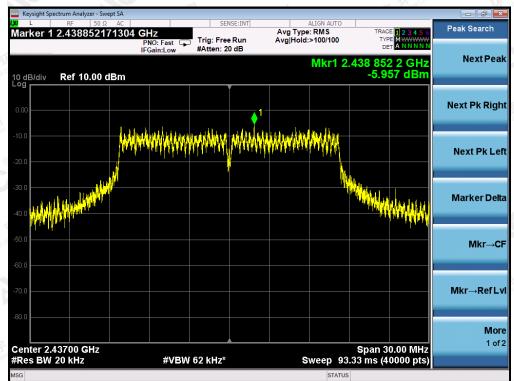


TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

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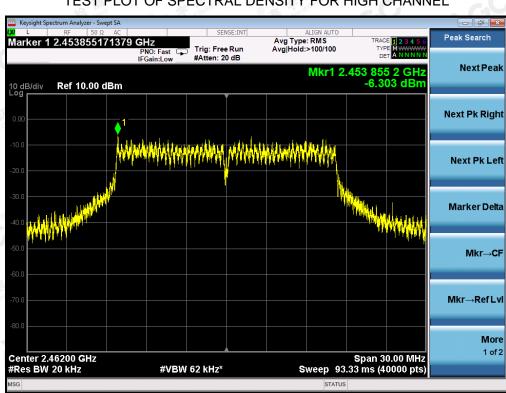
802.11g TEST RESULT TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL





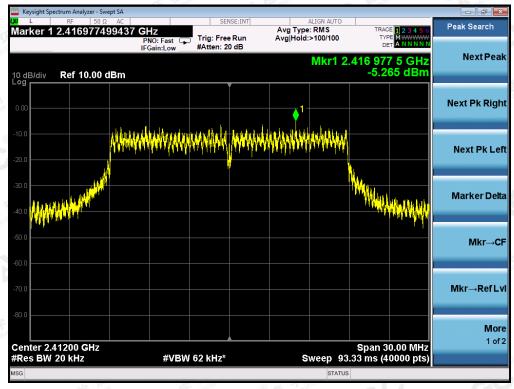
TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

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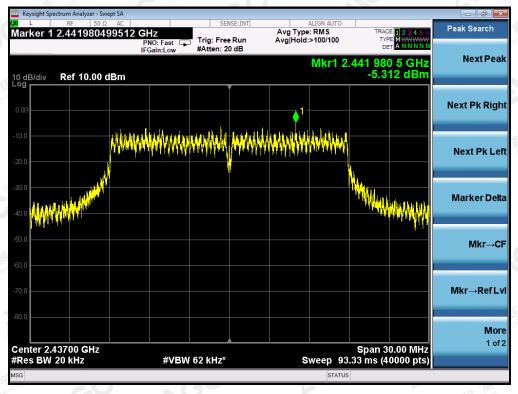
TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

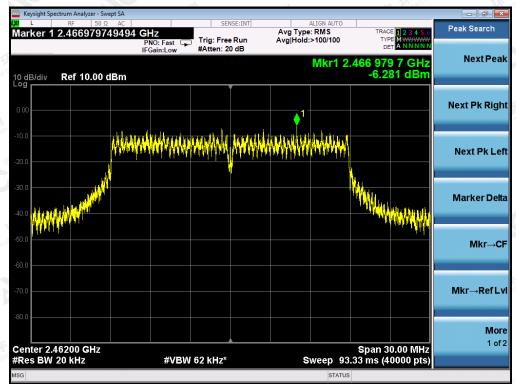




802.11n 20 TEST RESULT TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

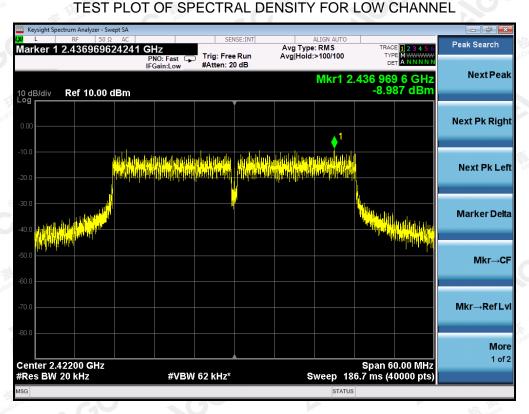


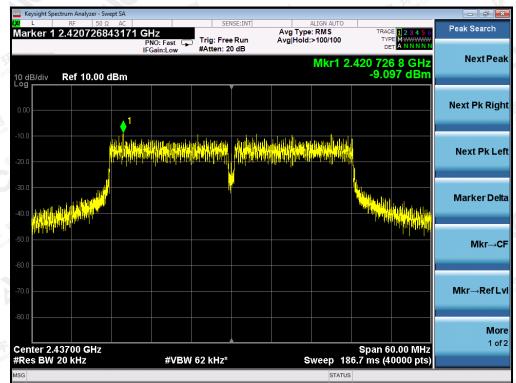


TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

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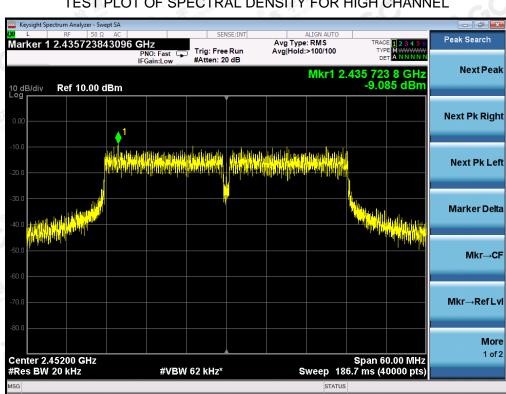
802.11n 40 TEST RESULT





TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

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TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

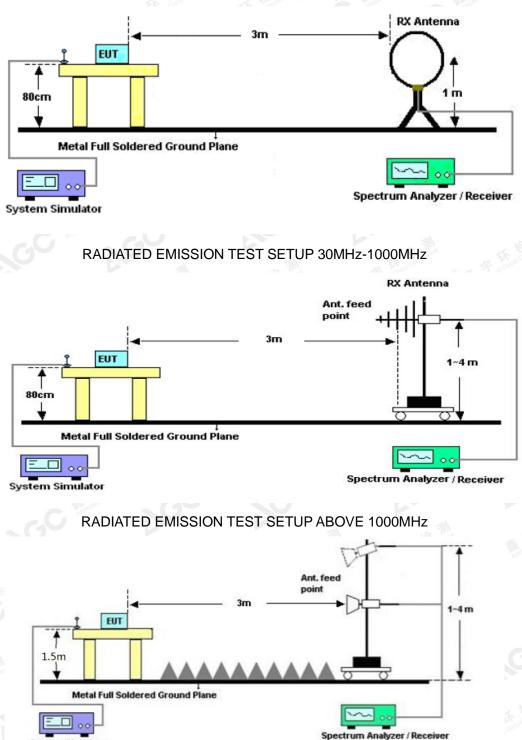
- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated 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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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



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	The Start 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	T Master Target			The Martin N	Model Name		PI0IOMTP00200			
Temperatur	.e	25°C	C 44	alion of Global	Relative Humidity		55.4%			
Pressure		960hPa	GU	Т	est Voltage		Normal V	/oltage	HE mplance	
Test Mode		802.11b with 2412MHZ	n date rate 1	A	Intenna		Horizonta		Filesenton of Global Contr	
	[dB(μV/ 100	(m)]								
	90									
	80									
	. 1 70									
	60									
	10 8 50									
	يّ 40									
	30					<u> </u>				
	· 1 20	Engine		and the second second	-					
	10				-					
	0				-					
GC T	0	30 50	100	Frequency		500	1000 [MHz]	C These are	tooal Comple	
Frequency MHz	0	Pooding	100 Factor dB (1/m)	Frequency Level dB(uV/m) PK	Limit dB(uV/m) QP	500 Margin dB		Height	Ang	
	0	Reading	Factor dB	Level dB(uV/m)	Limit dB(uV/m)	Margin	[MHz]	-		
MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	[MHz] Pass/Fail	cm	de 288	
MHz 38.245	Polarization	Reading dB(uV) 6.6	Factor dB (1/m) 17.2	Level dB(uV/m) PK 23.8	Limit dB(uV/m) QP 40.0	Margin dB 16.2	DtHz] Pass/Fail Pass	cm 150.0	de 288 288	
MHz 38.245 59.100	Polarization H H	Reading dB(uV) 6.6 6.2	Factor dB (1/m) 17.2 16.3	Level dB(uV/m) PK 23.8 22.5	Limit dB(uV/m) QP 40.0 40.0	Margin dB 16.2 17.5	Dates] Pass/Fail Pass Pass	cm 150.0 200.0	de 288 288 92.	
38.245 59.100 150.280	Polarization H H H	Reading dB(uV) 6.6 6.2 6.1	Factor dB (1/m) 17.2 16.3 16.6	Level dB(uV/m) PK 23.8 22.5 22.7	Limit dB(uV/m) QP 40.0 40.0 43.5	Margin dB 16.2 17.5 20.8	Dates] Pass/Fail Pass Pass Pass	cm 150.0 200.0 100.0	de	

RADIATED EMISSION BELOW 1GHZ

RESULT: PASS

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EUT	Master Target	Model Name	PI0IOMTP00200
Femperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Fest Mode	802.11b with date rate 1 2412MHZ	Antenna	Vertical
[dB(µ V/m 100	n)]		C The station of Our
The state of the s			
BO			
70			
60			
C Texes			
40 40			See 1
30		and the second	CC States
20 2	a man and a second a		
10			The second
GG	0 50 100 Frequer	500 ac y	1000 [MHz]

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
45.035	V	5.7	17.3	23.0	40.0	17.0	Pass	200.0	213.4
59.585	V V	6.9	16.2	23.1	40.0	16.9	Pass	100.0	92.6
154.645	V	5.6	16.6	22.2	43.5	21.3	Pass	200.0	70.6
592.600	V	5.1	24.8	29.9	46.0	16.1	Pass	150.0	107.7
816.670	V	6.9	29.0	35.9	46.0	10.1	Pass	100.0	92.6
990.785	C The Version	5.3	31.0	36.3	54.0	17.7	Pass	200.0	213.4

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.
- 3. All test modes had been pre-tested. The 802.11b at low channel is the worst case and recorded in the report.

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EUT	Master Target	Model Name	PI0IOMTP00200
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Horizontal

RADIATED EMISSION ABOVE 1GHZ

	CONTRACTOR OF CONTRACTOR	bite.	4162			
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4824.111	43.05	3.72	46.77	74	-27.23	peak
4824.059	36.32	3.72	40.04	54	-13.96	AVG
7236.031	41.28	8.15	49.43	74	-24.57	peak
7236.110	36.33	8.15	44.48	54	-9.52	AVG
Attestatio	6 and allon a	Attesta				Inor
	F.O.				AF AL	151 mance
emark:			-111	T.	Complian	3 Clobal Con.
actor = Ante	enna Factor + Ca	able Loss – I	Pre-amplifier.	C A Jon of Glow	C and a state	ion of
				- S87		

EUT	Master Target	Model Name	PI0IOMTP00200
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4824.057	42.96	3.72	46.68	74	-27.32	peak
4824.064	36.15	3.72	39.87	54	-14.13	AVG
7236.098	40.28	8.15	48.43	74	-25.57	peak
7236.045	35.72	8.15	43.87	54	-10.13	AVG
- Hence	For Global 8	A valion of Giv	Allest			
	to stall	Aller				
Remark:				14	NSL .	
actor = Ante	enna Factor + C	able Loss –	Pre-amplifier.	The Tel plance	- Fraicont	



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EUT	Master Target	Model Name	PI0IOMTP00200
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2437MHZ	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value rype
4874.059	44.86	3.75	48.61	74	-25.39	peak
4874.050	40.18	3.75	43.93	54	-10.07	AVG
7311.092	43.59	8.16	51.75	74	-22.25	peak
7311.034	37.12	8.16	45.28	54	-8.72	AVG
Allestan	Thestallon	Alles			10	liter
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EUT	Master Target	Model Name	PI0IOMTP00200
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2437MHZ	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4874.094	46.05	3.75	49.8	74	-24.2	peak
4874.039	39.99	3.75	43.74	54	-10.26	AVG
7311.039	41.23	8.16	49.39	74	-24.61	peak
7311.043	35.45	8.16	43.61	54	-10.39	AVG
				lin:	الكام	-12.
			Itere	KEL mplance	The Dame	e fair
Remark:	12.	-112	1 to Mance	F of Global	C The sation of Gu	
actor = Ante	enna Factor + Ca	ble Loss – F	Pre-amplifier.	testation	Allo	



EUT	Master Target	Model Name	PI0IOMTP00200
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHZ	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4924.038	43.98	3.81	47.79	74	-26.21	peak
4924.083	38.42	3.81	42.23	54 🔬	-11.77	AVG
7386.045	43.08	8.19	51.27	74	-22.73	peak
7386.046	37.15	8.19	45.34	54	-8.66	AVG
TF.	Company The Company		Lot Court	statu	Aller	
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Remark:	Allest				1117-	in the
actor = Ante	enna Factor + Ca	ble Loss – F	Pre-amplifier	1	A Mance	The Manphane

EUT	Master Target	Model Name	PI0IOMTP00200
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHZ	Antenna	Vertical

Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
42.84	3.81	46.65	74	-27.35	peak
39.16	3.81	42.97	54	-11.03	AVG
41.22	8.19	49.41	74	-24.59	peak
32.67	8.19	40.86	54	-13.14	AVG
SA TEL patience	Frank Company	C The survey of Clo		ono	
of Goot	es allon or	C Am	GU		
		0			im
	(dBµV) 42.84 39.16 41.22 32.67	(dBµV) (dB) 42.84 3.81 39.16 3.81 41.22 8.19 32.67 8.19	(dBµV) (dB) (dBµV/m) 42.84 3.81 46.65 39.16 3.81 42.97 41.22 8.19 49.41	(dBµV) (dB) (dBµV/m) (dBµV/m) 42.84 3.81 46.65 74 39.16 3.81 42.97 54 41.22 8.19 49.41 74 32.67 8.19 40.86 54	(dBµV) (dB) (dBµV/m) (dBµV/m) (dB) 42.84 3.81 46.65 74 -27.35 39.16 3.81 42.97 54 -11.03 41.22 8.19 49.41 74 -24.59 32.67 8.19 40.86 54 -13.14

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RESULT: PASS

Note:

Other emissions from 1G to 25 GHz are considered as ambient noise. No recording in the test report. Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

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

All test modes had been pre-tested. The 802.11b mode is the worst case and recorded in the report.





12. BAND EDGE EMISSION

12.1. MEASUREMENT PROCEDURE

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

12.2. TEST SET-UP

same as 11.2

Note:

1. Factor=Antenna Factor + Cable loss - Amplifier gain. Field Strength=Factor + Reading level

2. The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μ V) to represent the Amplitude. Use the F dB(μ V/m) to represent the Field Strength. So A=F.



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12.3. TEST RESULT

EUT	Master Target	Model Name	PI0IOMTP00200
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Horizontal



AV



RESULT: PASS

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EUT	Master Target	Model Name	PI0IOMTP00200
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Vertical

ΡK



AV



RESULT: PASS

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EUT	Master Target	Model Name	PI0IOMTP00200
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Horizontal

ΡK



AV



RESULT: PASS

The results showing this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.agc.gett.com.

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EUT	Master Target	Model Name	PI0IOMTP00200
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Vertical

ΡK



AV



RESULT: PASS

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EUT	Master Target	Model Name	PI0IOMTP00200
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHZ	Antenna	Horizontal

ΡK



AV



RESULT: PASS

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EUT	Master Target	Model Name	PI0IOMTP00200
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHZ	Antenna	Vertical

ΡK







RESULT: PASS

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EUT	Master Target	Model Name	PI0IOMTP00200
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHZ	Antenna	Horizontal

ΡK







RESULT: PASS

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EUT	Master Target	Model Name	PI0IOMTP00200
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHZ	Antenna	Vertical

ΡK







RESULT: PASS

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EUT	Master Target	Model Name	PI0IOMTP00200
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2412MHZ	Antenna	Horizontal

ΡK



AV



RESULT: PASS

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EUT	Master Target	Model Name	PI0IOMTP00200
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2412MHZ	Antenna	Vertical

ΡK



AV



RESULT: PASS

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EUT	Master Target	Model Name	PI0IOMTP00200
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2462MHZ	Antenna	Horizontal

ΡK







RESULT: PASS

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EUT	Master Target	Model Name	PI0IOMTP00200
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2462MHZ	Antenna	Vertical

ΡK



AV



RESULT: PASS

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EUT	Master Target	Model Name	PI0IOMTP00200
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 40 with data rate 13.5 2422MHZ	Antenna	Horizontal

ΡK



AV



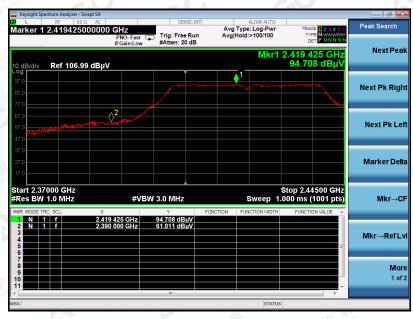
RESULT: PASS

The results showing this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.agc.gett.com.

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EUT	Master Target	Model Name	PI0IOMTP00200
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 40 with data rate 13.5 2422MHZ	Antenna	Vertical

PK



AV



RESULT: PASS

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EUT	Master Target	Model Name	PI0IOMTP00200
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 40with data rate 13.5 2452MHZ	Antenna	Horizontal



AV



RESULT: PASS

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EUT	Master Target	Model Name	PI0IOMTP00200
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 40 with data rate 13.5 2452MHZ	Antenna	Vertical

PK



AV



RESULT: PASS



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APPENDIX A: PHOTOGRAPHS OF TEST SETUP FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ



FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ



----END OF REPORT----

