

FCC RADIO TEST REPORT **FCC 47 CFR PART 15 SUBPART C**

Test Standard FCC Part 15.247

FCC ID **EUN-GATEWAY-MF230**

Brand name FIC

Product name MF0230 Model No. MF0230 **Test Result Pass**

The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.10: 2013 and compliance standards.

The test results of this report relate only to the tested sample (EUT) identified in this report.

The test Report of full or partial shall not copy. Without written approval of Compliance Certification Services Inc. (Wugu Laboratory)



erry Chang



Approved by: Tested by:

Sam Chuang Manager

Jerry Chuang Engineer



Revision History

Rev.	Issue Date	Revisions	Revised By
00	March 13, 2018	Initial Issue	Becca Chen
01	April 10, 2018	 Modify antenna gain in page 5. Remove the EIRP limit in page 24. Modify version of KDB 558074 in page 42. 	Becca Chen
02	April 16, 2018	1. Modify antenna gain in page 5.	Becca Chen
03	April 18, 2018	Added Loop Ant. in instrument calibration for 3M 966 Chamber Test site in page 7.	Becca Chen

Table of contents

1.	GENERAL INFORMATION	4
1.1	EUT INFORMATION	4
1.2	EUT CHANNEL INFORMATION	5
1.3	ANTENNA INFORMATION	5
1.4	MEASUREMENT UNCERTAINTY	6
1.5	FACILITIES AND TEST LOCATION	7
1.6	INSTRUMENT CALIBRATION	7
1.7	SUPPORT AND EUT ACCESSORIES EQUIPMENT	8
1.8	TEST METHODOLOGY AND APPLIED STANDARDS	8
2.	TEST SUMMERY	9
3.	DESCRIPTION OF TEST MODES	. 10
3.1	THE WORST MODE OF OPERATING CONDITION	
3.2	THE WORST MODE OF MEASUREMENT	. 11
3.3	EUT DUTY CYCLE	. 12
4.	TEST RESULT	. 13
4.1	AC POWER LINE CONDUCTED EMISSION	. 13
4.2	6DB BANDWIDTH AND OCCUPIED BANDWIDTH(99%)	. 16
4.3	OUTPUT POWER MEASUREMENT	. 24
4.4	POWER SPECTRAL DENSITY	. 26
4.5	CONDUCTED BANDEDGE AND SPURIOUS EMISSION	
4.6	RADIATION BANDEDGE AND SPURIOUS EMISSION	. 41
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1. GENERAL INFORMATION

1.1 EUT INFORMATION

Applicant	First International Computer Inc 8F, No.300, Yang Guang St., NeiHu, Taipei, Taiwan 114
Manufacturer	First International Computer Inc 8F, No.300, Yang Guang St., NeiHu, Taipei, Taiwan 114
Equipment	MF0230
Model No.	MF0230
Model Discrepancy	N/A
Trade Name	FIC
Received Date	January 31, 2018
Date of Test	March 5 ~ 7, 2018
Output Power(W)	IEEE 802.11b mode: 0.0638 IEEE 802.11g mode: 0.3192 IEEE 802.11n HT 20 MHz mode: 0.3055
Power Supply	Powered from Adapter : Billon / BA024-120200GXX I/P: 100-240Vac, 0.7A, 50/60Hz O/P: 12Vdc, 2.0A

1.2 EUT CHANNEL INFORMATION

Frequency Range	2412MHz-2462MHz
Modulation Type	1. IEEE 802.11b mode: CCK 2. IEEE 802.11g mode: OFDM 3. IEEE 802.11n HT 20 MHz mode: OFDM
Bandwidth	1. IEEE 802.11b mode: 11 Channels 2. IEEE 802.11g mode: 11 Channels 3. IEEE 802.11n HT 20 MHz mode: 11 Channels

Remark:

Refer as ANSI 63.10:2013 clause 5.6.1 Table 4 for test channels

Number of frequencies to be tested					
Frequency range in Number of Location in frequency which device operates frequencies range of operation					
☐ 1 MHz or less	1	Middle			
☐ 1 MHz to 10 MHz 2 1 near top and 1 near bottom					
More than 10 MHz					

1.3 ANTENNA INFORMATION

Antenna Type	☐ PIFA ☐ PCB ☑ Dipole ☐ Coils
Antenna Gain	Gain: 2.16dBi



1.4 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	+/- 2.96
Emission bandwidth, 20dB bandwidth	+/- 1.4003
RF output power, conducted	+/- 1.1372
Power density, conducted	+/- 1.4003
3M Semi Anechoic Chamber / 30M~200M	+/- 4.0138
3M Semi Anechoic Chamber / 200M~1000M	+/- 3.9483
3M Semi Anechoic Chamber / 1G~8G	+/- 2.5975
3M Semi Anechoic Chamber / 8G~18G	+/- 2.6112
3M Semi Anechoic Chamber / 18G~26G	+/- 2.7389
3M Semi Anechoic Chamber / 26G~40G	+/- 2.9683
3M Semi Anechoic Chamber / 40G~60G	+/- 1.8509
3M Semi Anechoic Chamber / 60G~75G	+/- 1.9869
3M Semi Anechoic Chamber / 75G~110G	+/- 2.9651
3M Semi Anechoic Chamber / 110G~170G	+/- 2.7807
3M Semi Anechoic Chamber / 170G~220G	+/- 3.6437
3M Semi Anechoic Chamber / 220G~325G	+/- 4.2982

Remark:

^{1.} This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2

^{2.}ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report.



1.5 FACILITIES AND TEST LOCATION

All measurement facilities used to collect the measurement data are located at

No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.)

Test site	Test Engineer	Remark
AC Conduction Room	Eric Lee	-
Radiation	Jerry Chuang	-
RF Conducted	Eric Lee	-

Remark: The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

1.6 INSTRUMENT CALIBRATION

RF Conducted Test Site						
Equipment	Manufacturer	Calibration Date	Calibration Due			
Power Meter	Anritsu	ML2495A	1033009	04/11/2017	04/10/2018	
Power Sensor	Anritsu	MA2411B	917072	07/03/2017	07/02/2018	
Spectrum Analyzer	R&S	FSV 40	101073	10/02/2017	10/01/2018	
Directional Coupler	Agilent	87301D	MY44350252	07/25/2017	07/24/2018	
SUCOFLEX Cable	HUBER SUHNER	SUCOFLEX 104PEA	25157	07/31/2017	07/30/2018	
Divider	Solvang Technology	2-18GHz 4Way	STI08-0015	07/26/2017	07/25/2018	

3M 966 Chamber Test Site							
Equipment Manufacturer I		Model	Serial Number	Calibration Date	Calibration Due		
Bilog Antenna	Sunol Sciences	JB3	A030105	06/20/2017	06/19/2018		
Horn Antenna	ETC	MCTD 1209	DRH13M02003	08/25/2017	08/24/2018		
Pre-Amplifier	EMEC	EM330	60609	06/07/2017	06/06/2018		
Spectrum Analyzer	Agilent	E4446A	US42510252	11/27/2017	11/26/2018		
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R		
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R		
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R		
Pre-Amplifier	HP	8449B	3008A00965	06/27/2017	06/26/2018		
Filter	N/A	2400-2500	N/A	N/A	N/A		
Cable	HUBER SUHNER	SUCOFLEX 104PEA	25157	07/31/2017	07/30/2018		
Cable	HUBER SUHNER	SUCOFLEX 104PEA	20995	07/31/2017	07/30/2018		
Loop Ant	COM-POWER	AL-130	121051	03/21/2018	03/20/2019		

AC Conducted Emissions Test Site							
Equipment Manufacturer Model Serial Number Calibration Date Calibration Du							
LISN	R&S	ENV216	101054	05/18/2017	05/17/2018		
LISN	SCHWARZBECK	NSLK 8127	8127-541	02/14/2018	02/13/2019		
EMI Test Receiver	R&S	ESCI	100064	05/17/2017	05/16/2018		

Note:

- The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
- 2. N.C.R. = No Calibration Required.

1.7 SUPPORT AND EUT ACCESSORIES EQUIPMENT

EUT Accessories Equipment							
No. Equipment Brand Model Series No. FCC ID							
	N/A						

	Support Equipment								
No.	No. Equipment Brand Model Series No. FCC ID								
1	Monitor	DELL	U2410F	N/A	DoC				
2	Keyboard	DELL	SK-8115	T3A002	DoC				
3	Mouse	DELL	M-UAL-96	R41105	DoC				

1.8 TEST METHODOLOGY AND APPLIED STANDARDS

The test methodology, setups and results comply with all requirements in accordance with ANSI C63.10:2013, FCC Part 2, FCC Part 15.247, KDB 558074 D01 \vee 04



2. TEST SUMMERY

FCC Standard Section	Report Section	Test Item	Result
15.203	1.3	Antenna Requirement	Pass
15.207(a)	4.1	AC Conducted Emission	Pass
15.247(a)(2)	4.2	6 dB Bandwidth	Pass
15.247(b)	4.3	Output Power Measurement	Pass
15.247(e)	4.4	Power Spectral Density	Pass
15.247(d)	4.5	Conducted Band Edge	Pass
15.247(d) 4.5		Conducted Emission	Pass
15.247(d)	4.6	Radiation Band Edge	Pass
15.247(d)	4.6	Radiation Spurious Emission	Pass



3. DESCRIPTION OF TEST MODES

3.1 THE WORST MODE OF OPERATING CONDITION

Operation mode	IEEE 802.11b mode :1Mbps IEEE 802.11g mode :6Mbps IEEE 802.11n HT20 mode :MCS0
Test Channel Frequencies	IEEE 802.11b mode: 1. Lowest Channel: 2412MHz 2. Middle Channel: 2437MHz 3. Highest Channel: 2462MHz IEEE 802.11g mode: 1. Lowest Channel: 2412MHz 2. Middle Channel: 2437MHz 3. Highest Channel: 2462MHz IEEE 802.11n HT20 mode: 1. Lowest Channel: 2412MHz 2. Middle Channel: 2437MHz 3. Highest Channel: 2437MHz 3. Highest Channel: 2462MHz
Operation Transmitter	IEEE 802.11b mode :1T1R IEEE 802.11g mode :1T1R IEEE 802.11n HT20 mode :1T1R

Remark: EUT pre-scanned data rate of output power for each mode, the worst data rate were recorded in this report.

3.2 THE WORST MODE OF MEASUREMENT

	AC Power Line Conducted Emission					
Test Condition	AC Power line conducted emission for line and neutral					
Voltage/Hz	120V/60Hz					
Test Mode	Mode 1: EUT power by AC adapter via power cable.					
Worst Mode	Mode 1					
F	Radiated Emission Measurement Above 1G					
Test Condition	Band edge, Emission for Unwanted and Fundamental					
Voltage/Hz	120V/60Hz					
Test Mode	Mode 1: EUT power by AC adapter via power cable.					
Worst Mode						
Worst Position	 □ Placed in fixed position. □ Placed in fixed position at X-Plane (E2-Plane) □ Placed in fixed position at Y-Plane (E1-Plane) □ Placed in fixed position at Z-Plane (H-Plane) 					
Worst Polarity	☐ Horizontal ⊠ Vertical					
F	Radiated Emission Measurement Below 1G					
Test Condition	Radiated Emission Below 1G					
Voltage/Hz	120V/60Hz					
Test Mode	Mode 1: EUT power by AC adapter via power cable.					
Worst Mode						

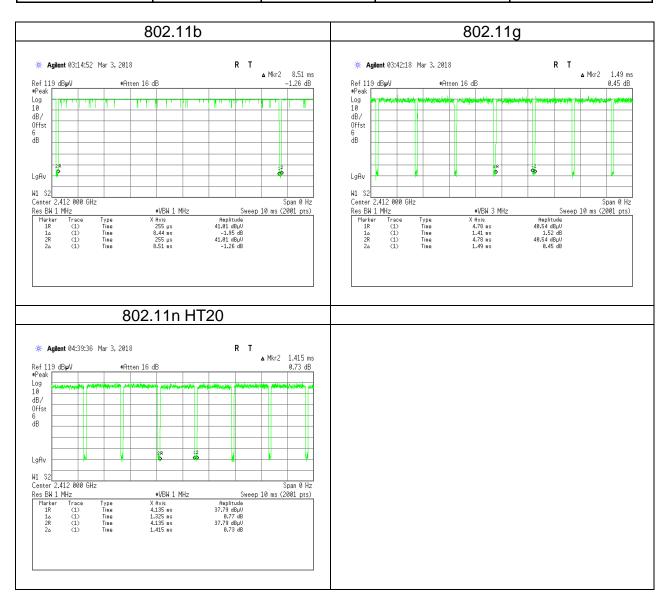
Remark:

- 1. The worst mode was record in this test report.
- 2. EUT pre-scanned in three axis, X, Y, Z and two polarity, Horizontal and Vertical for radiated measurement. The worst case (X-Plane and Horizontal) were recorded in this report
- 3. For below 1G, AC power line conducted emission and radiation emission were performed the EUT transmit at the highest output power channel as worse case.



3.3 EUT DUTY CYCLE

Duty Cycle								
Configuration	TX ON (ms)	TX ALL (ms)	Duty Cycle (%)	Duty Factor(dB)				
802.11b	8.4400	8.5100	99.18%	0.04				
802.11g	1.4100	1.4900	94.63%	0.24				
802.11n HT 20	1.3250	1.4150	93.64%	0.29				



4. TEST RESULT

4.1 AC POWER LINE CONDUCTED EMISSION

4.1.1 Test Limit

According to §15.207(a)(2)

Frequency Range	Limits(dBµV)			
(MHz)	Quasi-peak	Average		
0.15 to 0.50	66 to 56*	56 to 46*		
0.50 to 5	56	46		
5 to 30	60	50		

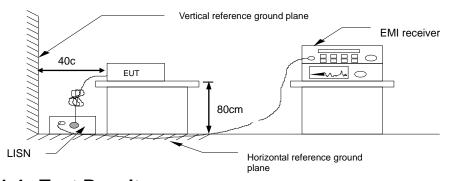
^{*} Decreases with the logarithm of the frequency.

4.1.2 Test Procedure

Test method Refer as ANSI 63.10:2013 clause 6.2,

- 1. The EUT was placed on a non-conducted table, which is 0.8m above horizontal ground plane and 0.4m above vertical ground plane.
- 2. EUT connected to the line impedance stabilization network (LISN)
- 3. Receiver set RBW of 9kHz and Detector Peak, and note as quasi-peak and average.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. Recorded Line for Neutral and Line.

4.1.3 Test Setup

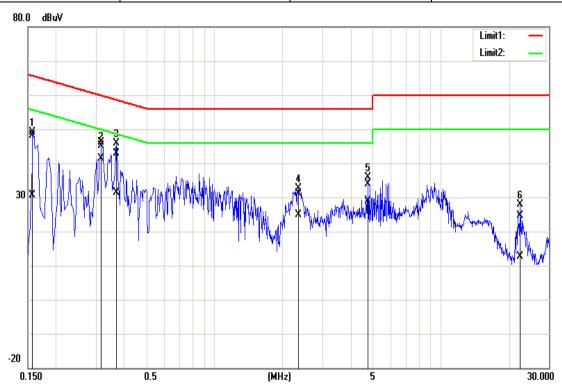


4.1.4 Test Result

Pass.

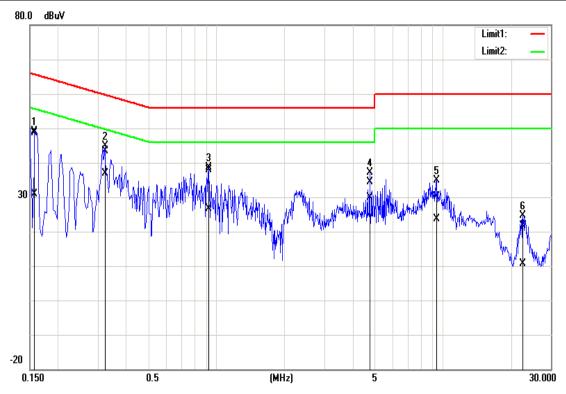
Test Data

Test Mode:	Mode 1	Temp/Hum	24(°C) / 50%RH	
Test Voltage:	Test Voltage: AC 120V		2018/3/6	
Phase:	Phase: Line		Eric Lee	



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1580	48.12	30.46	0.11	48.23	30.57	65.56	55.57	-17.33	-25.00	Pass
2*	0.3180	46.07	41.30	0.12	46.19	41.42	59.76	49.76	-13.57	-8.34	Pass
3	0.3700	42.69	31.30	0.12	42.81	31.42	58.50	48.50	-15.69	-17.08	Pass
4	2.3540	30.95	24.63	0.16	31.11	24.79	56.00	46.00	-24.89	-21.21	Pass
5	4.7740	33.74	28.68	0.20	33.94	28.88	56.00	46.00	-22.06	-17.12	Pass
6	22.5100	24.06	12.03	0.50	24.56	12.53	60.00	50.00	-35.44	-37.47	Pass

Test Mode:	Mode 1	Temp/Hum	24(°C) / 50%RH		
Test Voltage:	AC 120V	Test Date	2018/3/6		
Phase:	Neutral	Test Engineer	Eric Lee		



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1580	48.52	30.79	0.14	48.66	30.93	65.57	55.57	-16.91	-24.64	Pass
2*	0.3220	43.32	36.69	0.13	43.45	36.82	59.66	49.66	-16.21	-12.84	Pass
3	0.9260	37.65	26.60	0.14	37.79	26.74	56.00	46.00	-18.21	-19.26	Pass
4	4.7660	34.16	29.75	0.21	34.37	29.96	56.00	46.00	-21.63	-16.04	Pass
5	9.4300	29.81	23.29	0.29	30.10	23.58	60.00	50.00	-29.90	-26.42	Pass
6	22.6020	21.09	10.13	0.51	21.60	10.64	60.00	50.00	-38.40	-39.36	Pass



4.2 6DB BANDWIDTH AND OCCUPIED BANDWIDTH (99%)

4.2.1 Test Limit

According to §15.247(a)(2)

6 dB Bandwidth :

Limit	Shall be at least 500kHz

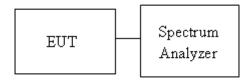
Occupied Bandwidth(99%) : For reporting purposes only.

4.2.2 Test Procedure

Test method Refer as KDB 558074 D01 v04, Section 8.1 and ANSI 63.10:2013 clause 6.9.2,

- 1. The EUT RF output connected to the spectrum analyzer by RF cable.
- 2. Setting maximum power transmit of EUT.
- 3. SA set RBW =100KHz, VBW = 300KHz and Detector = Peak, to measurement 6dB Bandwidth.
- SA set RBW = 1% ~ 5% OBW, VBW = three times the RBW and Detector = Peak, to measurement 99% Bandwidth.
- Measure and record the result of 6 dB Bandwidth and 99% Bandwidth. in the test 5. report.

4.2.3 Test Setup





4.2.4 Test Result

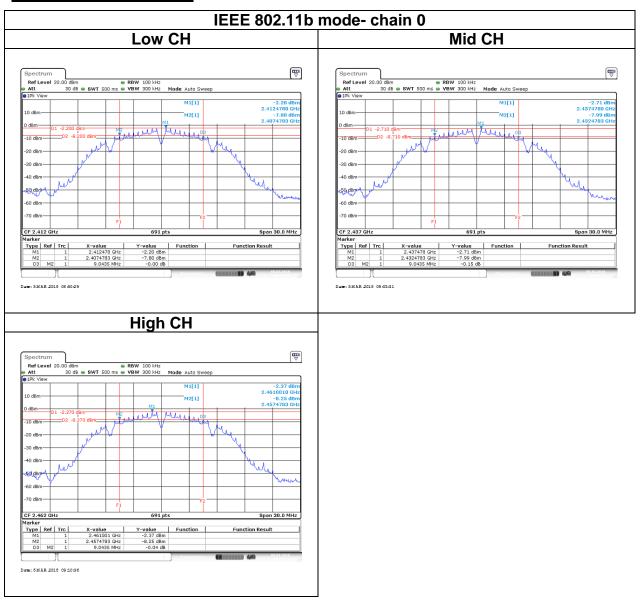
	Test mode: IEEE 802.11b mode / 2412-2462 MHz										
Channel Frequency (MHz)		Chain 0 Chain 1 OBW(99%) OBW(99%) (MHz) (MHz)		Chain 0 6dB BW (MHz)	Chain 1 6dB BW (MHz)	6dB limit (kHz)					
Low	2412	14.0231		9.0435							
Mid	2437	14.0231	-	9.0435	-	≥500					
High	2462	13.9797		9.0435							

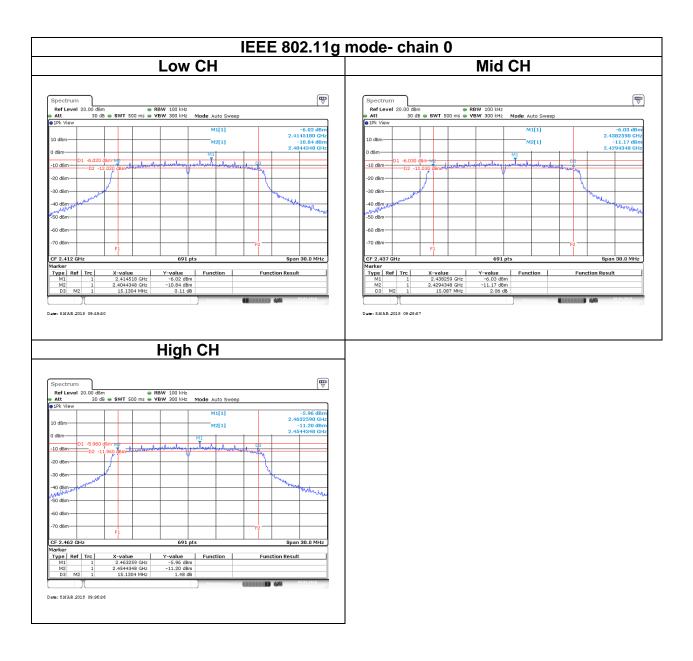
	Test mode: IEEE 802.11g mode / 2412-2462 MHz									
Channel	Frequency (MHz)									
Low	2412	16.3241		15.1304						
Mid	2437	16.3675		15.087		≥500				
High	2462	16.3241		15.1304						

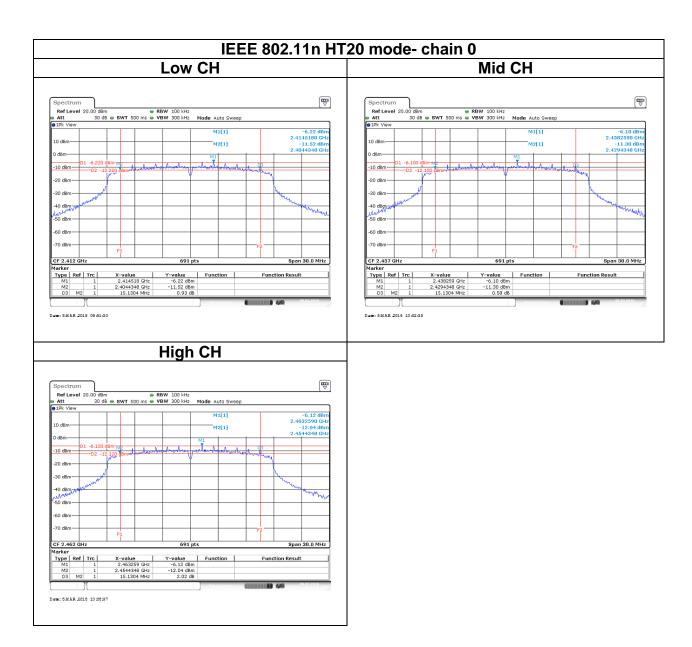
	Test mode: IEEE 802.11n HT 20 MHz mode / 2412-2462 MHz									
Channel	Frequency (MHz)									
Low	2412	17.4529		15.1304						
Mid	2437	17.4529		15.1304		≥500				
High	2462	17.4963		15.1304						



6dB BW Test Data

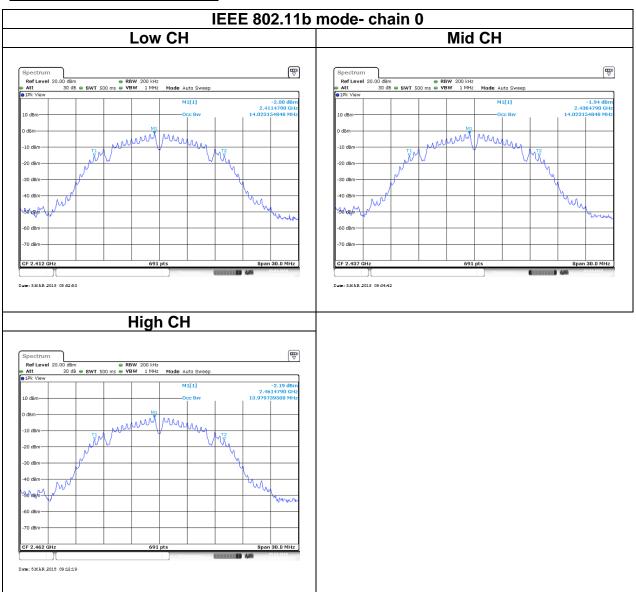


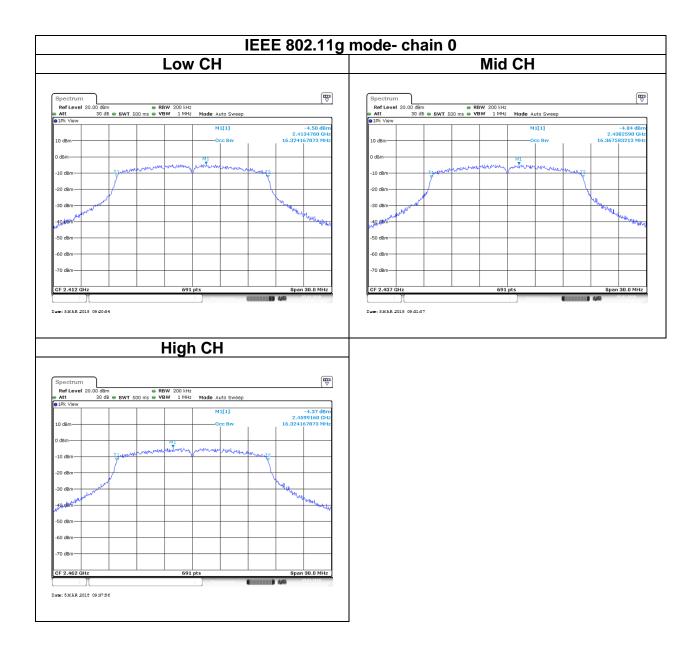


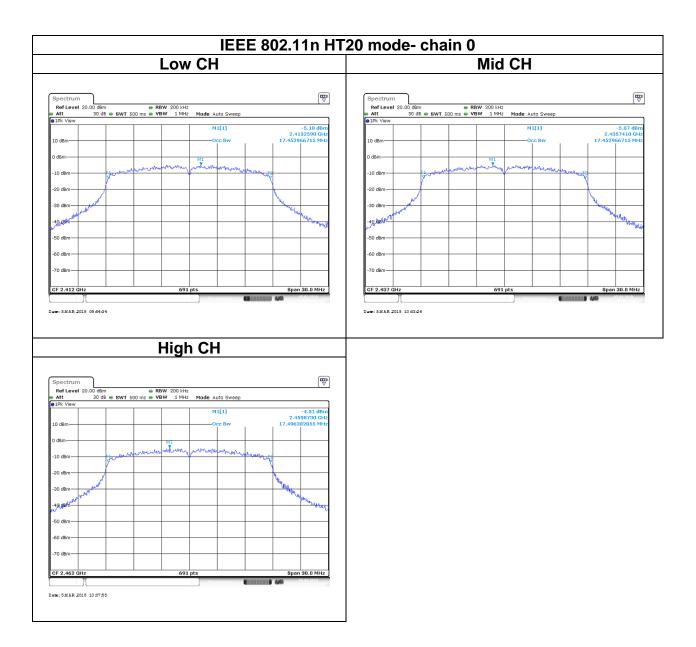




OBW(99%) Test Data







4.3 OUTPUT POWER MEASUREMENT

4.3.1 Test Limit

According to §15.247(b)

Peak output power:

For systems using digital modulation in the 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt(30 dBm). shall not exceed 4Watt(36 dBm), base on the use of antennas with directional gain not exceed 6 dBi If transmitting antennas of directional gain greater than 6dBi are used the peak output power the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

	Antenna not exceed 6 dBi : 30dBm
Limit	Antenna with DG greater than 6 dBi:
	[Limit = 30 - (DG - 6)]
	Point-to-point operation :

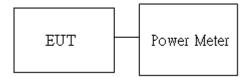
Average output power: For reporting purposes only.

4.3.2 Test Procedure

Test method Refer as KDB 558074 D01 v04, Section 9.1.3.

- 1. The EUT RF output connected to the power meter by RF cable.
- 2. Setting maximum power transmit of EUT.
- 3. The path loss was compensated to the results for each measurement.
- Measure and record the result of Peak output power and Average output power. in the test report.

4.3.3 Test Setup





4.3.4 Test Result

Peak output power:

WIFI 2.4G									
0	СН	Freq.	Freq. Power Set		PK Power (dBm)		PK Total	PK Total	l insit
Config		(MHz)	Chain 0	Chain 1	Chain 0	Chain 1	Power (dBm)	Power (W)	Limit
IEEE	Low	2412	de fault	ı	18.05	-	18.05	0.0638	
802.11b Data rate:	Mid	2437	de fault	ı	17.86	1	17.86	0.0611	
1Mbps	High	2462	de fault	ı	17.92	-	17.92	0.0619	
IEEE	Low	2412	de fault	-	24.83		24.83	0.3041	
802.11g Data rate:	Mid	2437	de fault	-	25.04		25.04	0.3192	30
6Mbps	High	2462	de fault	ı	24.12	-	24.12	0.2582	
IEEE 802.11n HT 20 Data	Low	2412	de fault	ı	24.69		24.69	0.2944	
	Mid	2437	de fault	ı	24.85	-	24.85	0.3055	
rate: MCS 0	High	2462	de fault	ı	24.11	-	24.11	0.2576	

Average output power:

WIFI 2.4G								
Config	0.1	Freq. AV Power (de		er (dBm)	AV Total			
Config	СН	(MHz)	Chain 0	Chain 1	Power (dBm)			
IEEE	Low	2412	15.66		15.66			
802.11b Data rate:	Mid	2437	15.57		15.57			
1Mbps	High	2462	15.59		15.59			
IEEE	Low	2412	14.73		14.73			
802.11g Data rate:	Mid	2437	15.17		15.17			
6Mbps	High	2462	13.84		13.84			
IEEE	Low	2412	14.74		14.74			
802.11n HT 20 Data	Mid	2437	14.90		14.90			
rate: MCS 0	High	2462	13.67		13.67			



4.4 POWER SPECTRAL DENSITY

4.4.1 Test Limit

According to §15.247(e)

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

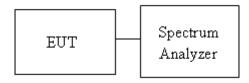
Limit	☐ Antenna with DG greater than 6 dBi:
Limit	[Limit = 8 − (DG − 6)] ☐ Point-to-point operation:
	☐ Point-to-point operation :

4.4.2 Test Procedure

Test method Refer as KDB 558074 D01 v04, Section 10.2

- The EUT RF output connected to the spectrum analyzer by RF cable.
- 2. Setting maximum power transmit of EUT
- 3. SA set RBW = 3kHz, VBW = 30kHz, Span = 1.5 times DTS Bandwidth (6 dB BW), Detector = Peak, Sweep Time = Auto and Trace = Max hold.
- The path loss and Duty Factor were compensated to the results for each 4. measurement by SA.
- Mark the maximum level. 5.
- Measure and record the result of power spectral density. in the test report.

4.4.3 Test Setup





4.4.4 Test Result

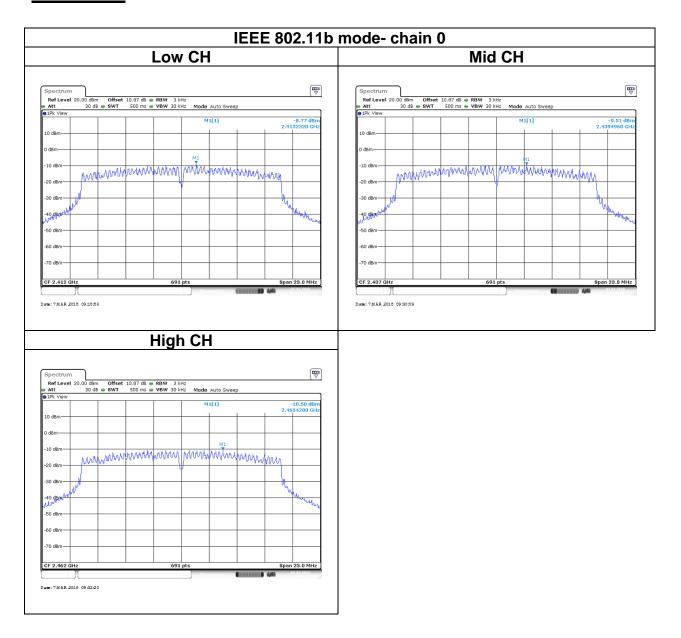
Test mode: IEEE 802.11b mode / 2412-2462 MHz							
Channel	Channel Frequency (MHz) Chain 0 Chain 1 Total PPSD PSD (dBm) (dBm) Limit (dBm)						
Low	2412	-8.77	-	-8.77			
Mid	2437	-9.51	-	-9.51	8		
High	2462	-10.50	-	-10.50			

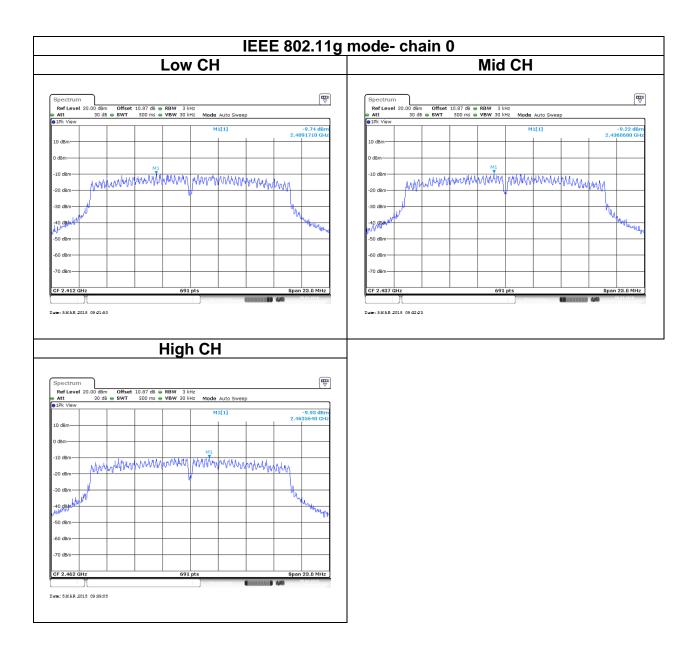
Test mode: IEEE 802.11g mode / 2412-2462 MHz							
Channel Frequency (MHz) Chain 0 Chain 1 Total PPSD PSD (dBm) (dBm) Limit (dBm)							
Low	2412	-9.74	-	-9.74			
Mid	2437	-9.22	-	-9.22	8		
High	2462	-9.93	-	-9.93			

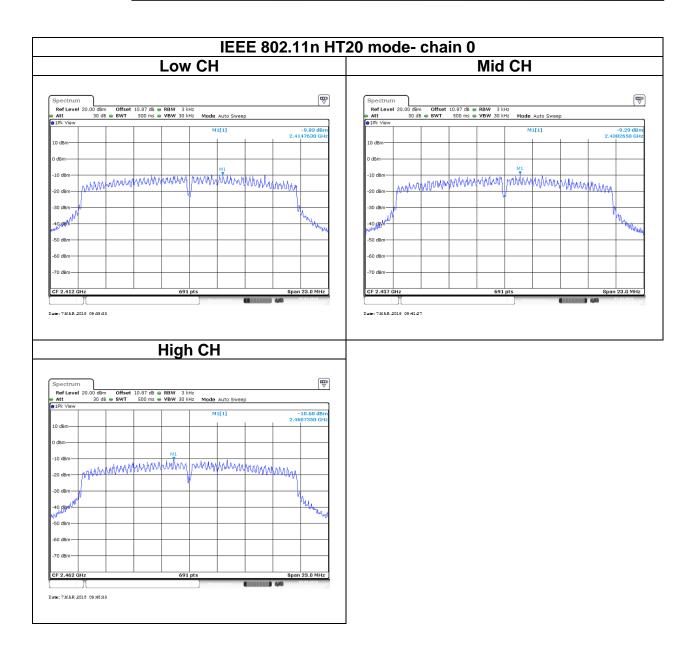
	Test mode: IEEE 802.11n HT 20 MHz mode / 2412-2462 MHz							
Channel	Frequency (MHz) Chain 0 Chain 1 Total PPSD PSD (dBm) (dBm) Limit (dBm)							
Low	2412	-9.83	-	-9.83				
Mid	2437	-9.29	-	-9.29	8			
High	2462	-10.60	-	-10.60				



Test Data









4.5 CONDUCTED BANDEDGE AND SPURIOUS EMISSION

4.5.1 Test Limit

According to §15.247(d)

In any 100 kHz bandwidth outside the authorized frequency band,

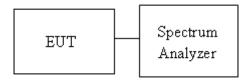
Non-restricted bands shall be attenuated at least 20 dB/30 dB relative to the maximum PSD level in 100 kHz by RF conducted or a radiated measurement which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

4.5.2 Test Procedure

Test method Refer as KDB 558074 D01 v04, Section 11.

- 1. EUT RF output port connected to the SA by RF cable, and the path loss was compensated to result.
- 2. SA setting, RBW=100kHz, VBW=300kHz, Detector=Peak, Trace mode = max hold, SWT = Auto.
- 3. In any 100 kHz bandwidth outside the authorized frequency band, shall be attenuated at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when conducted power procedure is used. f the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

4.5.3 Test Setup

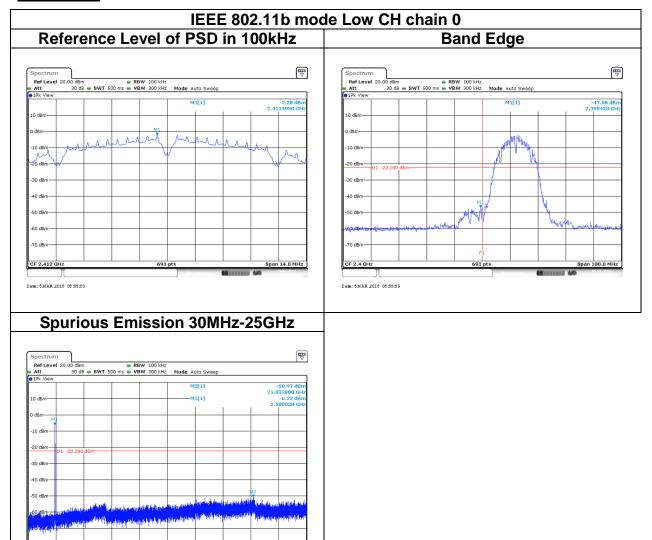




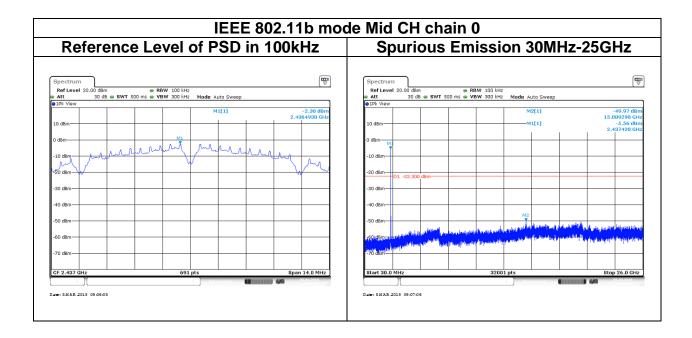
4.5.4 Test Result

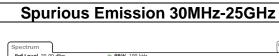
Test Data

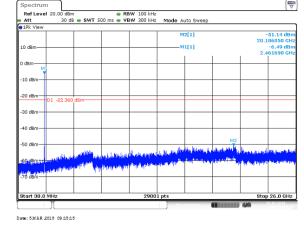
Date: 5MAR 2018 08:59:19



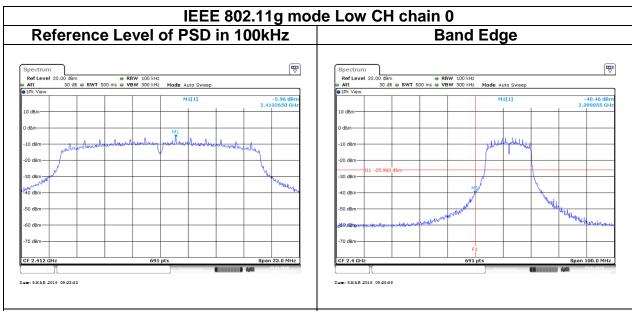




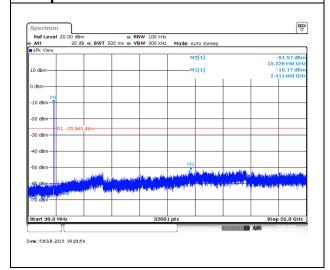




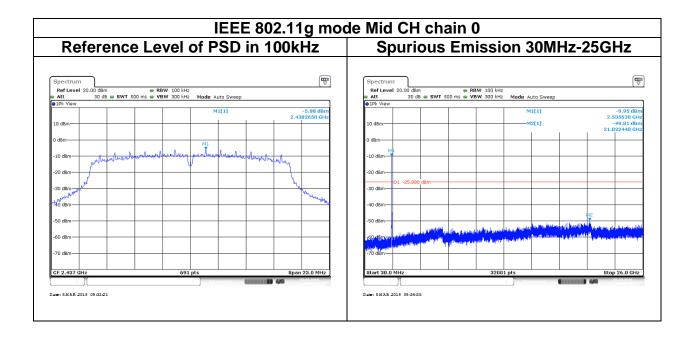




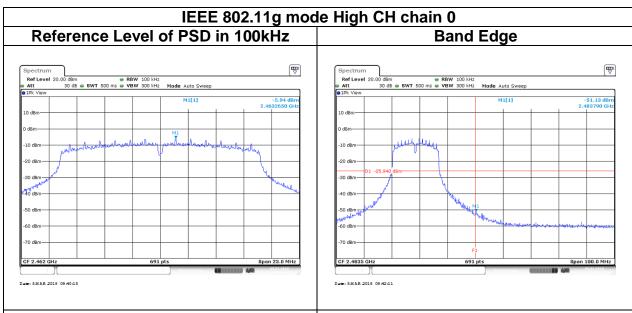




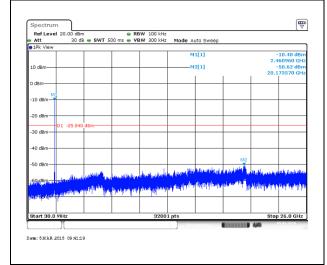


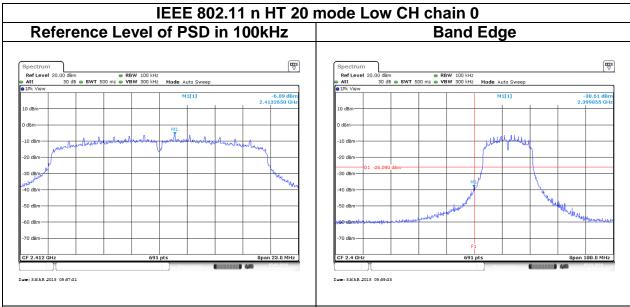




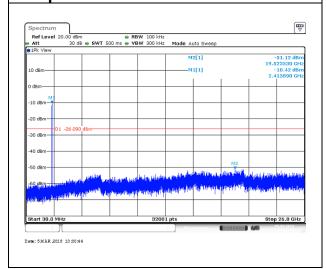




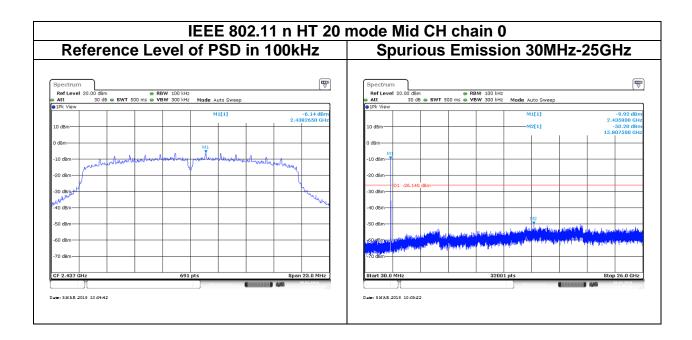


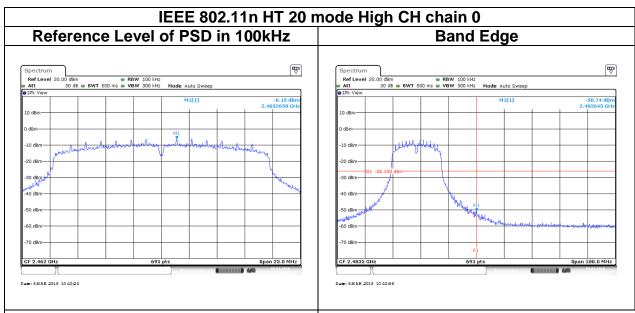




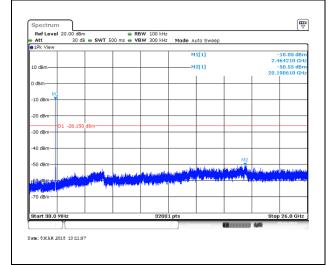














4.6 RADIATION BANDEDGE AND SPURIOUS EMISSION

4.6.1 Test Limit

FCC according to §15.247(d), §15.209 and §15.205,

In any 100 kHz bandwidth outside the authorized frequency band, all harmonic and spurious must be least 20 dB below the highest emission level with the authorized frequency band. Radiation emission which fall in the restricted bands must also follow the FCC section 15.209 as below limit in table.

Below 30 MHz

Frequency	Field Strength (microvolts/m)	Magnetic H-Field (microamperes/m)	Measurement Distance (metres)
9-490 kHz	2,400/F (F in kHz)	2,400/F (F in kHz)	300
490-1,705 kHz	24,000/F (F in kHz)	24,000/F (F in kHz)	30
1.705-30 MHz	30	N/A	30

Above 30 MHz

Frequency	Field Strength (microvolts/m)	Measurement Distance (metres)
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3



4.6.2 Test Procedure

Test method Refer as KDB 558074 D01 v04, Section 12.1.

- 1. The EUT is placed on a turntable, Above 1 GHz is 1.5m and below 1 GHz is 0.8m above ground plane. The EUT Configured un accordance with ANSI C63.10, and the EUT set in a continuous mode.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level. And EUT is set 3m away from the receiving antenna, which is scanned from 1m to 4m above the ground plane to find out the highest emissions. Measurement are made polarized in both the vertical and the horizontal positions with antenna.
- 3. Span shall wide enough to full capture the emission measured. The SA from 9kHz to 26.5GHz set to the low, Mid and High channels with the EUT transmit.

Note: No emission found between lowest internal used/generated frequency to 30MHz(9KHz~30MHz)

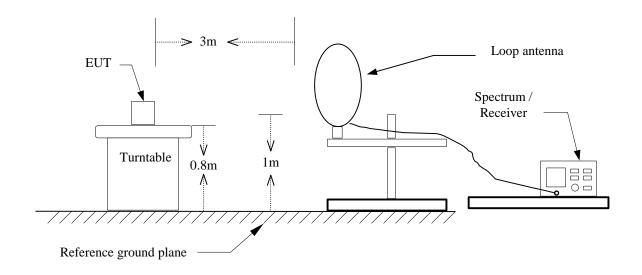
- 5. The SA setting following:
 - (1) Below 1G: RBW = 100kHz, VBW ≥ 3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.
 - (2) Above 1G:
 - (2.1) For Peak measurement : RBW = 1MHz, VBW ≥ 3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.
 - (2.2) For Average measurement : RBW = 1MHz, VBW
 - If Duty Cycle ≥ 98%, VBW=10Hz.
 - If Duty Cycle < 98%, VBW=1/T.

Configuration	Duty Cycle (%)	T(ms)	1/T (kHz)	VBW Setting
802.11b	99%	8.4400	-	10Hz
802.11g	95%	1.4100	0.709	750Hz
802.11n HT20	94%	1.3250	0.755	820Hz

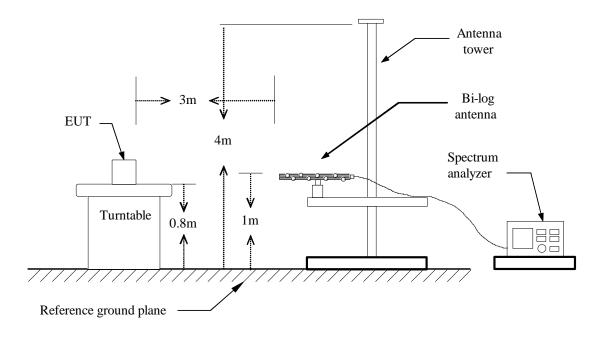


4.6.3 Test Setup

9kHz ~ 30MHz

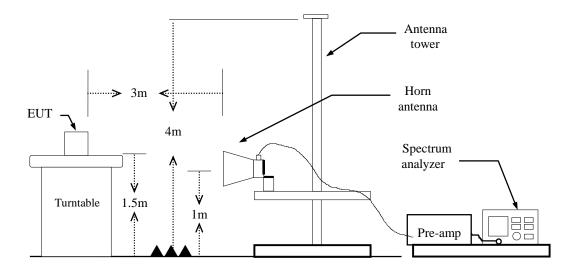


30MHz ~ 1GHz





Above 1 GHz

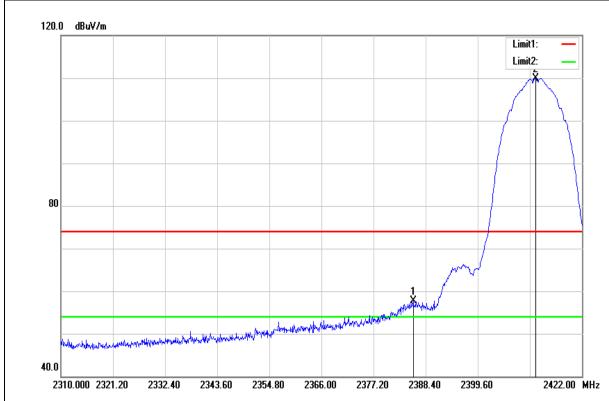




4.6.4 Test Result

Band Edge Test Data

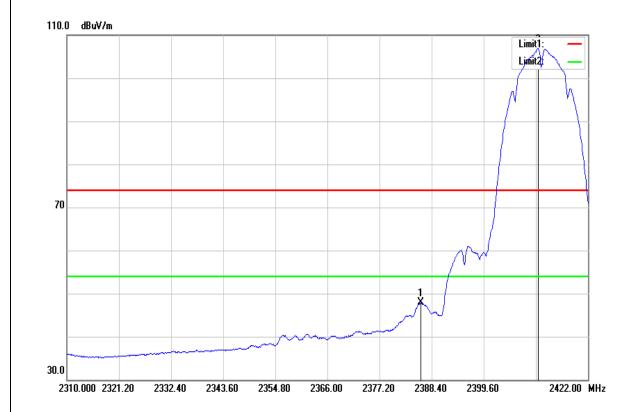
Test Mode	IEEE 802.11b Low CH	Temp/Hum	22(°ℂ) / 34%RH
Test Item	Band Edge	Test Date	March 6, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak	Test Voltage	AC 120V



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2385.712	60.72	-2.99	57.73	74.00	-16.27	peak
2412.032	112.91	-2.92	109.99	-		peak

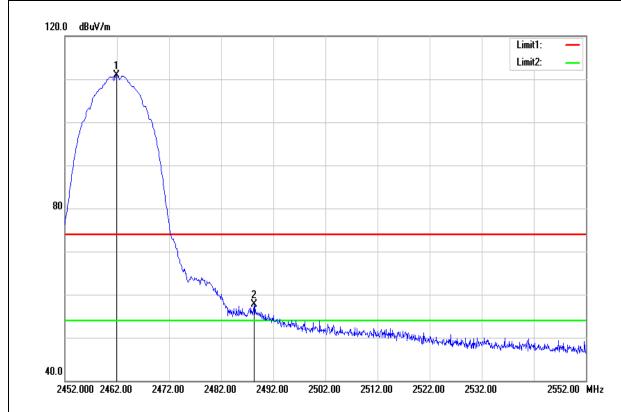


Test Mode	IEEE 802.11b Low CH	Temperature:	22(°ℂ) / 34%RH
Test Item	Band Edge	Test Date	March 6, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Average	Test Voltage	AC 120V



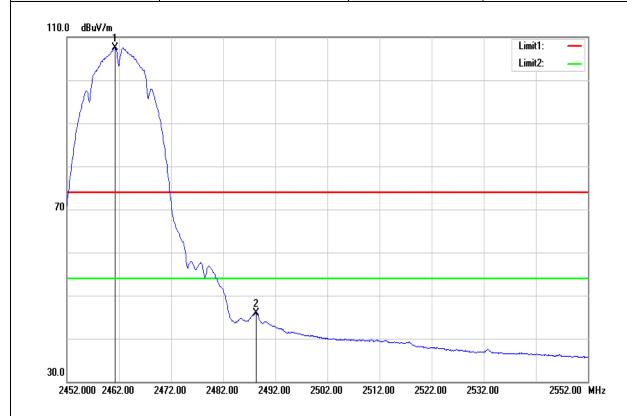
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2386.104	50.91	-2.99	47.92	54.00	-6.08	AVG
2411.248	109.73	-2.92	106.81			AVG

Test Mode	IEEE 802.11b High CH	Temp/Hum	22(°C) / 34%RH
Test Item	Band Edge	Test Date	March 6, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak	Test Voltage	AC 120V



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2461.950	113.67	-2.76	110.91			peak
2488.300	60.32	-2.67	57.65	74.00	-16.35	peak

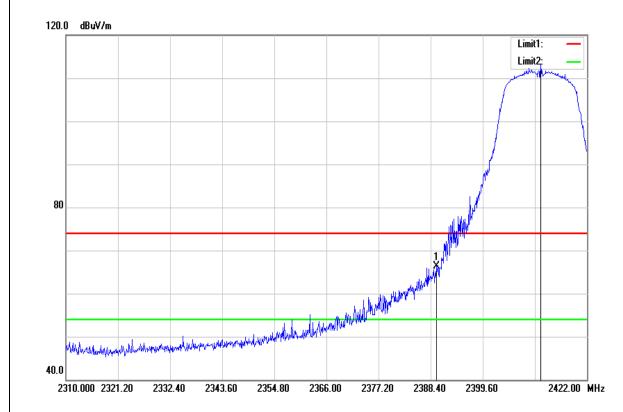
Test Mode	IEEE 802.11b High CH	Temperature:	22(°ℂ) / 34%RH
Test Item	Band Edge	Test Date	March 6, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Average	Test Voltage	AC 120V



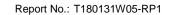
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2461.250	110.29	-2.76	107.53	-	1	AVG
2488.300	48.50	-2.67	45.83	54.00	-8.17	AVG



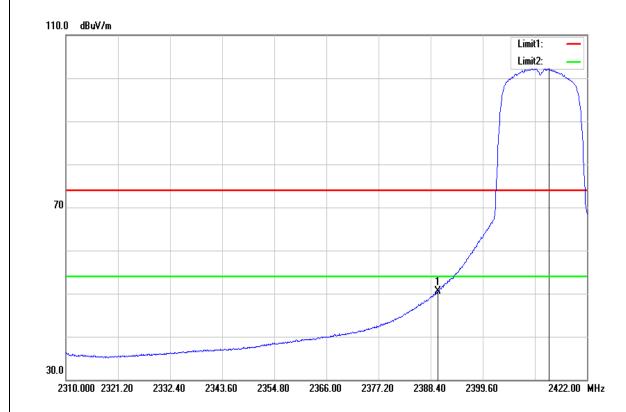
Test Mode	IEEE 802.11g Low CH	Temp/Hum	22(°ℂ) / 34%RH
Test Item	Band Edge	Test Date	March 6, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak	Test Voltage	AC 120V



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2389.688	69.33	-2.98	66.35	74.00	-7.65	peak
2412.088	116.30	-2.91	113.39			peak

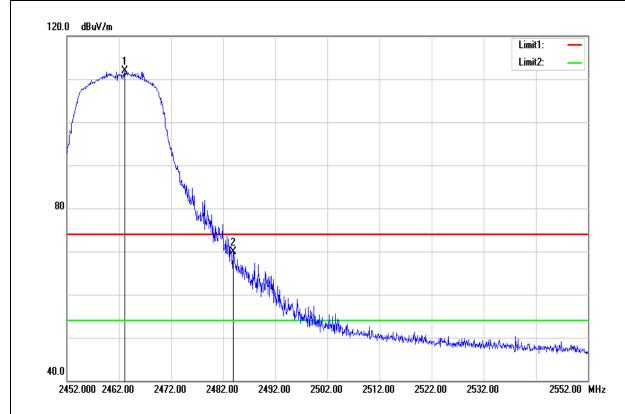


Test Mode	IEEE 802.11g Low CH	Temperature:	22(°C) / 34%RH
Test Item	Band Edge	Test Date	March 6, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Average	Test Voltage	AC 120V



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2390.000	53.52	-2.98	50.54	54.00	-3.46	AVG
2413.824	105.15	-2.90	102.25			AVG

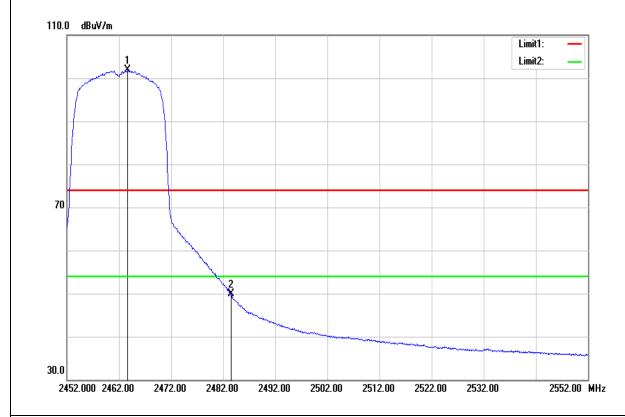
Test Mode	IEEE 802.11g High CH	Temp/Hum	22(°C) / 34%RH
Test Item	Band Edge	Test Date	March 6, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak	Test Voltage	AC 120V



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2463.100	114.58	-2.75	111.83	-	1	peak
2483.950	72.64	-2.69	69.95	74.00	-4.05	peak



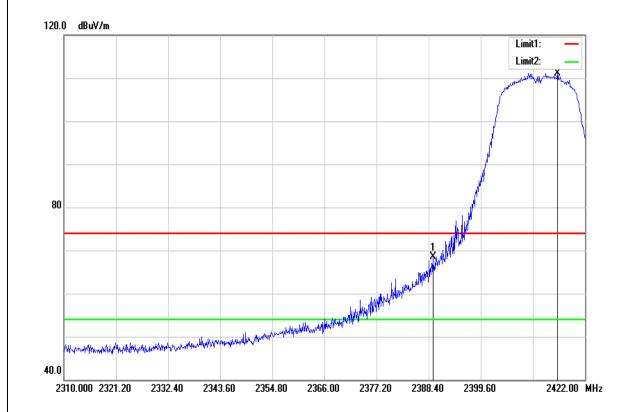
Test Mode	IEEE 802.11g High CH	Temp/Hum	22(°C) / 34%RH
Test Item	Band Edge	Test Date	March 6, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Average	Test Voltage	AC 120V



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2463.700	104.59	-2.75	101.84	-		AVG
2483.500	52.52	-2.69	49.83	54.00	-4.17	AVG



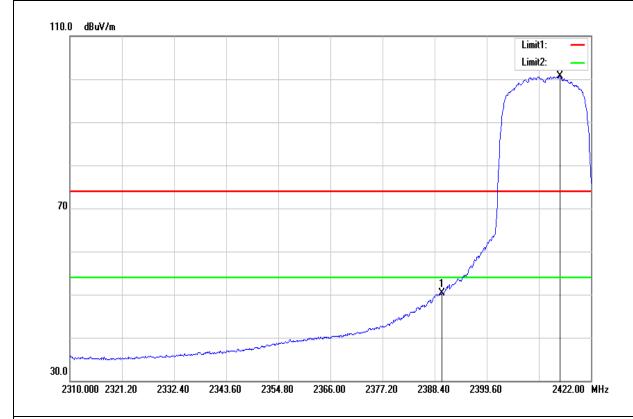
Test Mode	IEEE 802.11n HT 20 Low CH	Temp/Hum	22(°ℂ) / 34%RH
Test Item	Band Edge	Test Date	March 6, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak	Test Voltage	AC 120V



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2389.296	71.41	-2.98	68.43	74.00	-5.57	peak
2416.064	114.07	-2.90	111.17	-	-	peak

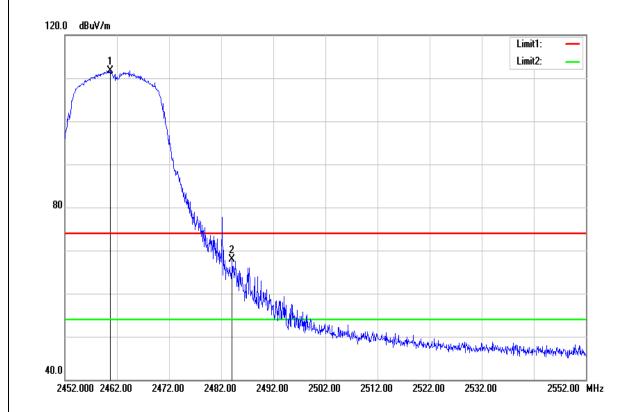


Test Mode	IEEE 802.11n HT 20 Low CH	Temperature:	22(°ℂ) / 34%RH
Test Item	Band Edge	Test Date	March 6, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Average	Test Voltage	AC 120V



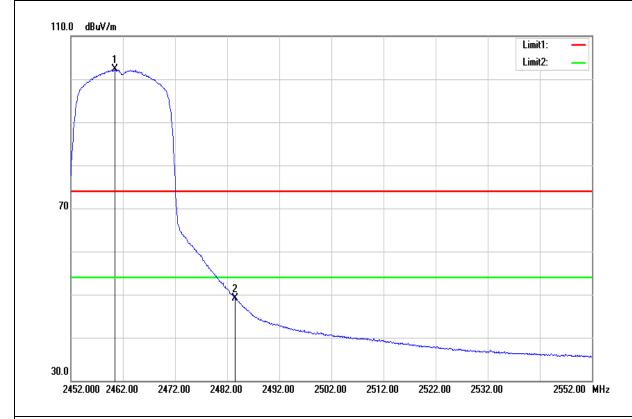
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2390.000	53.38	-2.98	50.40	54.00	-3.60	AVG
2415.448	103.57	-2.90	100.67			AVG

Test Mode	IEEE 802.11n HT 20 High CH	Temp/Hum	22(°ℂ) / 34%RH
Test Item	Band Edge	Test Date	March 6, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak	Test Voltage	AC 120V



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2460.700	114.48	-2.76	111.72		-	peak
2484.150	70.57	-2.69	67.88	74.00	-6.12	peak

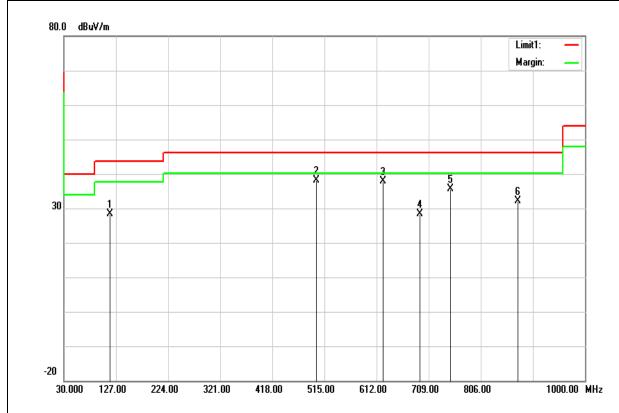
Test Mode	IEEE 802.11n HT 20 High CH	Temperature:	22(°ℂ) / 34%RH
Test Item	Band Edge	Test Date	March 6, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Average	Test Voltage	AC 120V



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2460.500	105.02	-2.76	102.26		-	AVG
2483.500	51.87	-2.69	49.18	54.00	-4.82	AVG

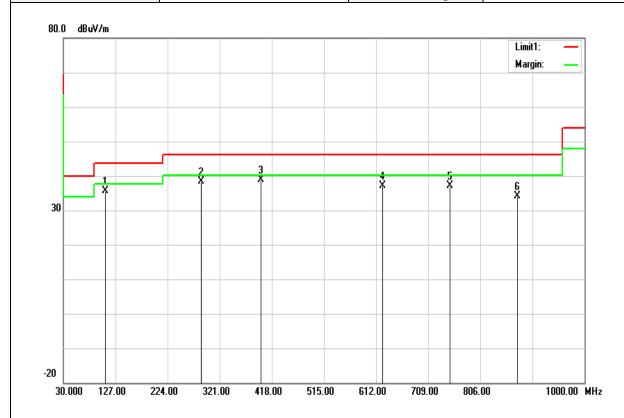
Below 1G Test Data

Test Mode	Mode 1	Temp/Hum	22(°C) / 34%RH
Test Item	30MHz-1GHz	Test Date	March 5, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak	Test Voltage	AC 120V



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
115.3600	44.27	-15.82	28.45	43.52	-15.07	peak
500.4500	46.62	-8.48	38.14	46.02	-7.88	peak
624.6100	44.07	-6.25	37.82	46.02	-8.20	peak
692.5100	33.28	-4.98	28.30	46.02	-17.72	peak
749.7400	40.03	-4.29	35.74	46.02	-10.28	peak
874.8700	34.62	-2.44	32.18	46.02	-13.84	peak

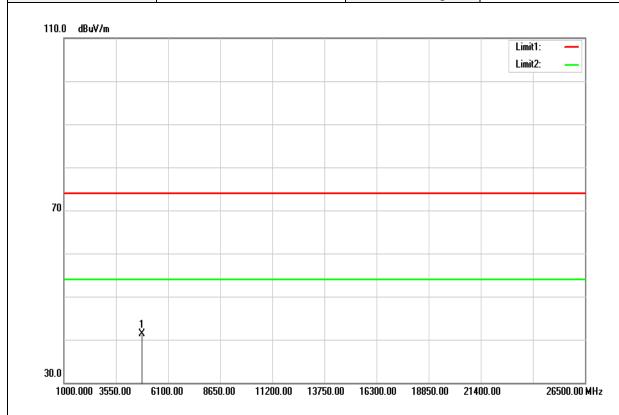
Test Mode	Mode 1	Temp/Hum	22(℃) / 34%RH
Test Item	30MHz-1GHz	Test Date	March 5, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak	Test Voltage	AC 120V



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB	Remark
108.5700	52.63	-17.04	35.59	43.52	-7.93	peak
286.0800	52.47	-14.21	38.26	46.02	-7.76	peak
397.6300	50.42	-11.46	38.96	46.02	-7.06	peak
624.6100	43.26	-6.25	37.01	46.02	-9.01	peak
749.7400	41.45	-4.29	37.16	46.02	-8.86	peak
874.8700	36.50	-2.44	34.06	46.02	-11.96	peak

Above 1G Test Data

Test Mode	IEEE 802.11b Low CH	Temp/Hum	22(°ℂ) / 34%RH
Test Item	Harmonic	Test Date	March 7, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak	Test Voltage	AC 120V

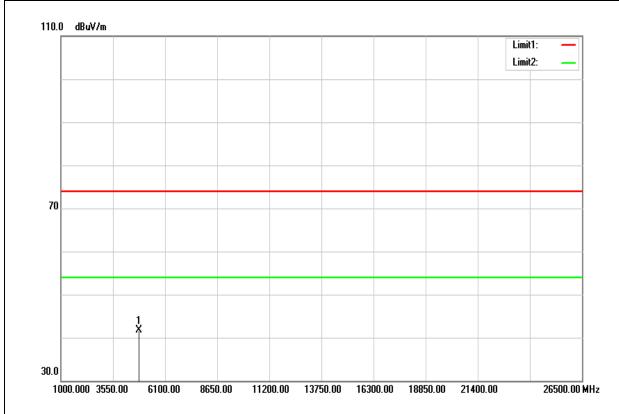


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4824.000	36.95	4.38	41.33	74.00	-32.67	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

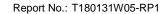


Test Mode	IEEE 802.11b Low CH	Temp/Hum	22(°ℂ) / 34%RH
Test Item	Harmonic	Test Date	March 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak	Test Voltage	AC 120V

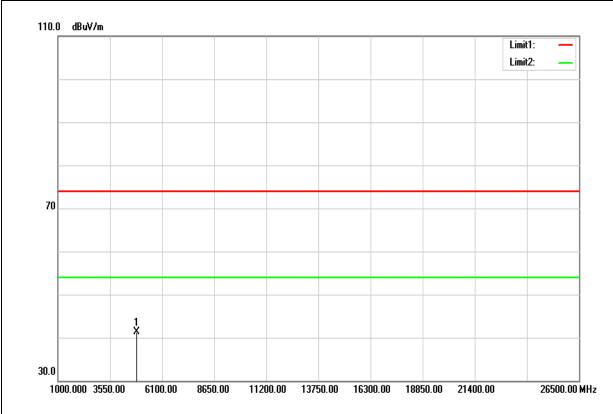


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4824.000	37.22	4.38	41.60	74.00	-32.40	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



Test Mode	IEEE 802.11b Mid CH	Temp/Hum	22(℃) / 34%RH
Test Item	Harmonic	Test Date	March 7, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak	Test Voltage	AC 120V

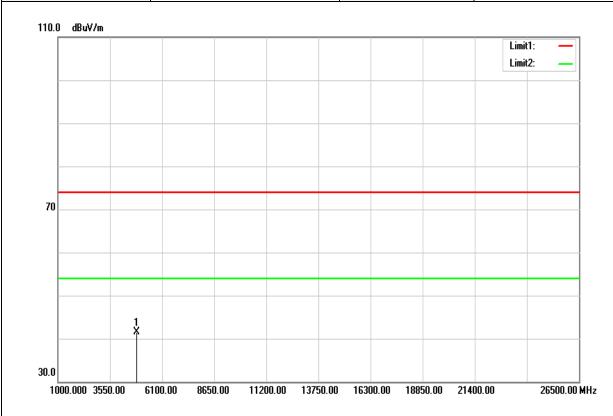


Frequency (MHz)	Reading (dBu)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4874.000	36.82	4.47	41.29	74.00	-32.71	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



Test Mode	IEEE 802.11b Mid CH	Temp/Hum	22(°C) / 34%RH
Test Item	Harmonic	Test Date	March 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak	Test Voltage	AC 120V

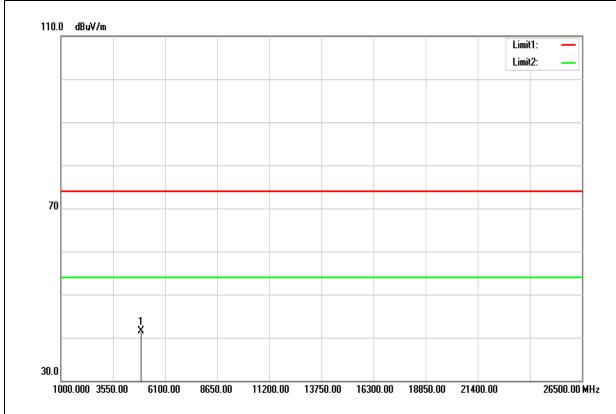


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4874.000	36.94	4.47	41.41	74.00	-32.59	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

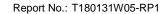


Test Mode	IEEE 802.11b High CH	Temp/Hum	22(°ℂ) / 34%RH
Test Item	Harmonic	Test Date	March 7, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak	Test Voltage	AC 120V

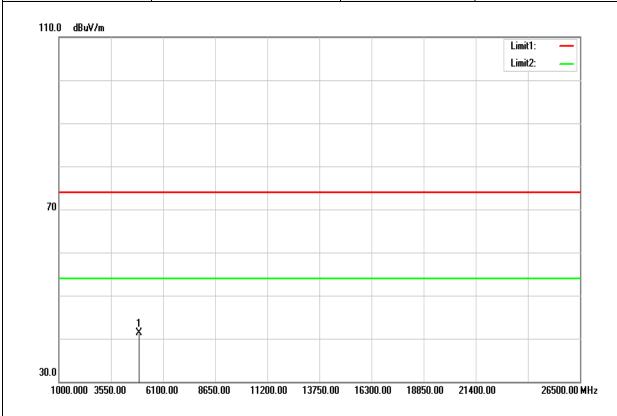


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4924.000	37.01	4.55	41.56	74.00	-32.44	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



Test Mode	IEEE 802.11b High CH	Temp/Hum	22(°C) / 34%RH
Test Item	Harmonic	Test Date	March 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak	Test Voltage	AC 120V

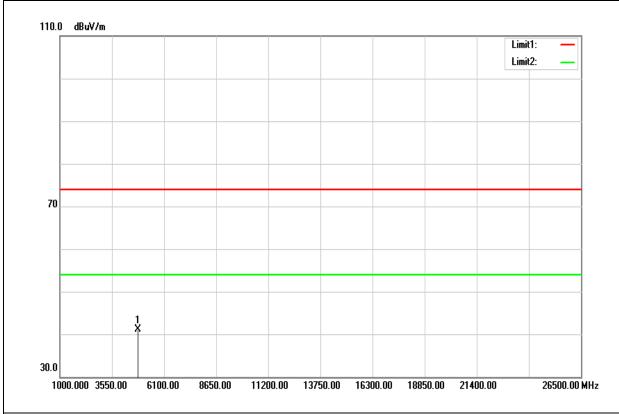


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4924.000	36.79	4.55	41.34	74.00	-32.66	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



Test Mode	IEEE 802.11g Low CH	Temp/Hum	22(°ℂ) / 34%RH
Test Item	Harmonic	Test Date	March 7, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak	Test Voltage	AC 120V

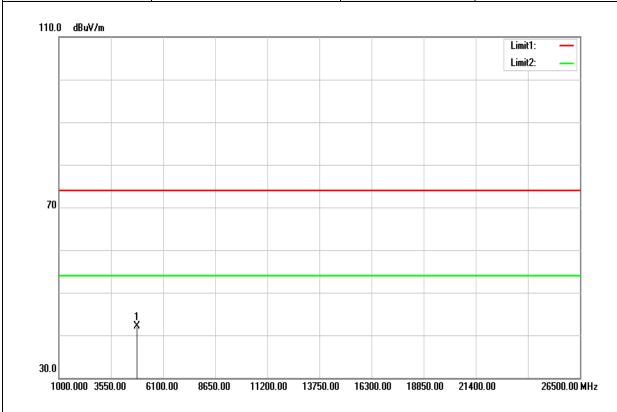


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4824.000	36.64	4.38	41.02	74.00	-32.98	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



Test Mode	IEEE 802.11g Low CH	Temp/Hum	22(°ℂ) / 34%RH
Test Item	Harmonic	Test Date	March 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak	Test Voltage	AC 120V

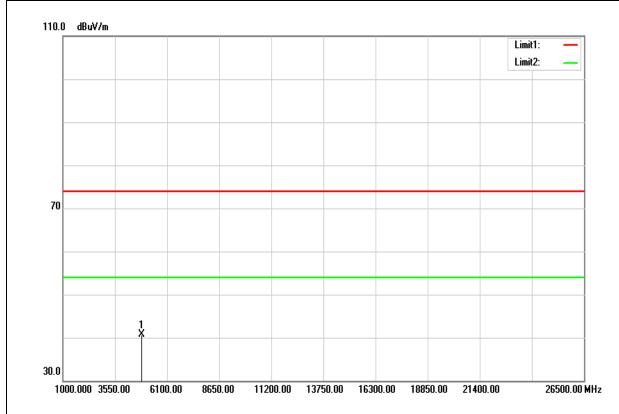


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4824.000	37.76	4.38	42.14	74.00	-31.86	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

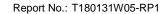


Test Mode	IEEE 802.11g Mid CH	Temp/Hum	22(°ℂ) / 34%RH
Test Item	Harmonic	Test Date	March 7, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak	Test Voltage	AC 120V

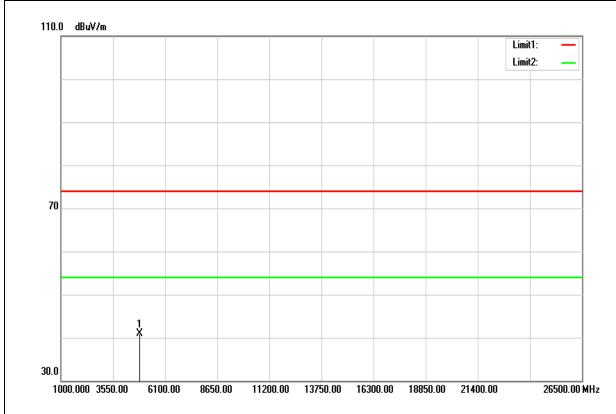


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4874.000	36.18	4.47	40.65	74.00	-33.35	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



Test Mode	IEEE 802.11g Mid CH	Temp/Hum	22(°ℂ) / 34%RH
Test Item	Harmonic	Test Date	March 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak	Test Voltage	AC 120V

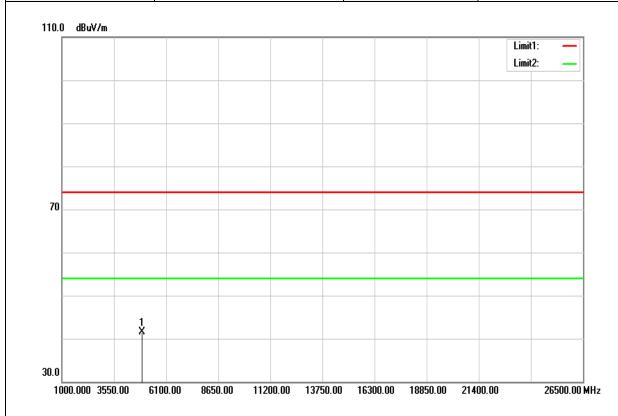


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4874.000	36.37	4.47	40.84	74.00	-33.16	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



Test Mode	IEEE 802.11g High CH	Temp/Hum	22(°ℂ) / 34%RH
Test Item	Harmonic	Test Date	March 7, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak	Test Voltage	AC 120V

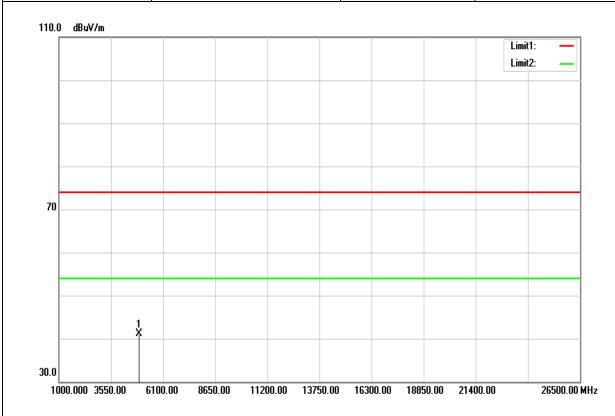


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4924.000	36.95	4.55	41.50	74.00	-32.50	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

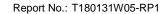


Test Mode	IEEE 802.11g High CH	Temp/Hum	22(°C) / 34%RH
Test Item	Harmonic	Test Date	March 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak	Test Voltage	AC 120V

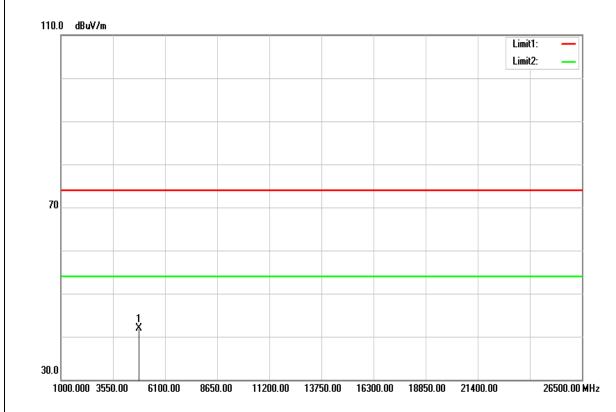


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4924.000	36.61	4.55	41.16	74.00	-32.84	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



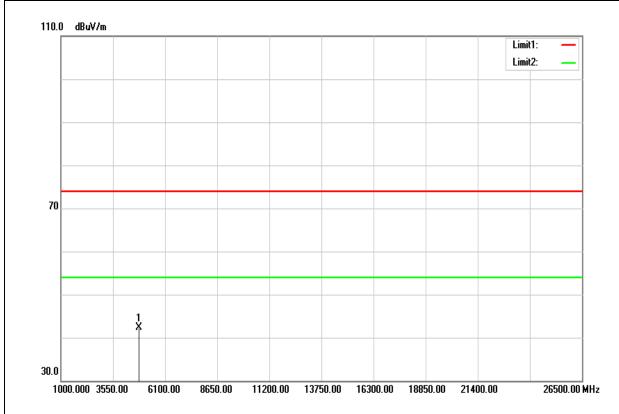
Test Mode	IEEE 802.11n HT 20 Low CH	Temp/Hum	22(°C) / 34%RH
Test Item	Harmonic	Test Date	March 7, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak	Test Voltage	AC 120V



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4824.000	37.56	4.38	41.94	74.00	-32.06	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT 20 Low CH	Temp/Hum	22(°ℂ) / 34%RH
Test Item	Harmonic	Test Date	March 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak	Test Voltage	AC 120V

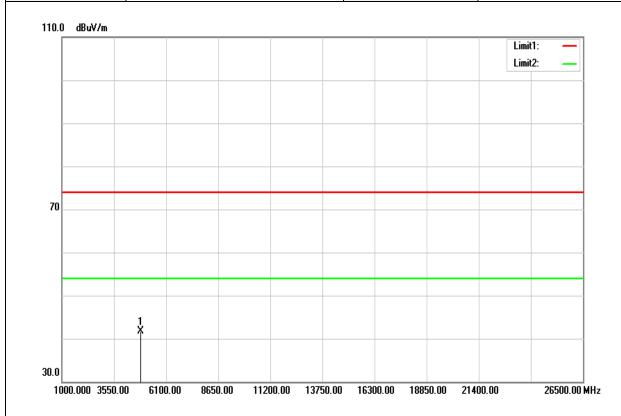


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4824.000	37.82	4.38	42.20	74.00	-31.80	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



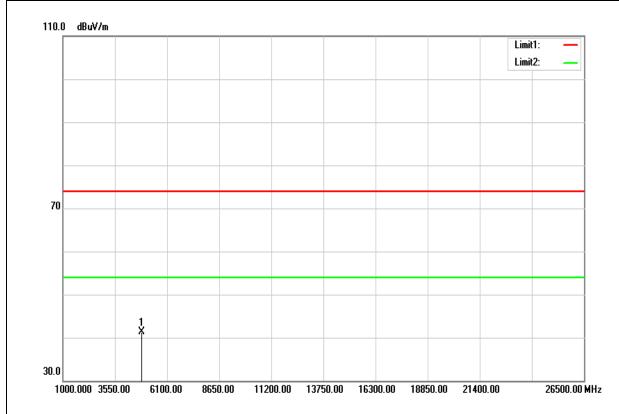
Test Mode	IEEE 802.11n HT 20 Mid CH	Temp/Hum	22(°ℂ) / 34%RH
Test Item	Harmonic	Test Date	March 7, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak	Test Voltage	AC 120V



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4874.000	37.26	4.47	41.73	74.00	-32.27	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT 20 Mid CH	Temp/Hum	22(°ℂ) / 34%RH
Test Item	Harmonic	Test Date	March 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak	Test Voltage	AC 120V

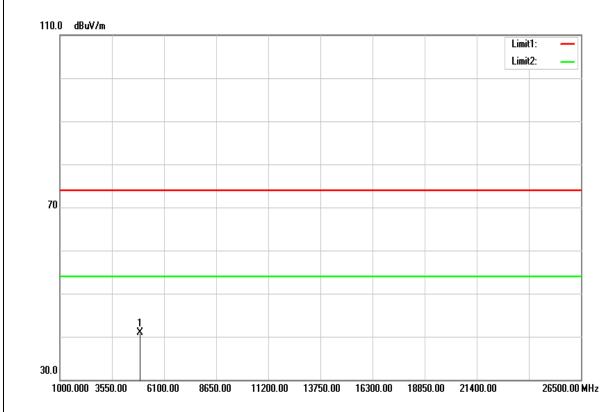


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4874.000	36.75	4.47	41.22	74.00	-32.78	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



Test Mode	IEEE 802.11n HT 20 High CH	Temp/Hum	22(°C) / 34%RH
Test Item	Harmonic	Test Date	March 7, 2018
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak	Test Voltage	AC 120V

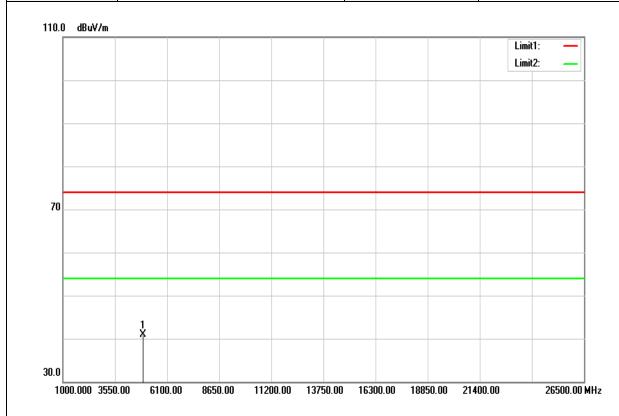


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4924.000	36.38	4.55	40.93	74.00	-33.07	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



Test Mode	IEEE 802.11n HT 20 High CH	Temp/Hum	22(°ℂ) / 34%RH
Test Item	Harmonic	Test Date	March 7, 2018
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak	Test Voltage	AC 120V



Frequency (MHz	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4924.000	36.36	4.55	40.91	74.00	-33.09	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit