



IC: 9930A-EVOLVE8

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Rev.: 01

RADIO TEST REPORT FCC 47 CFR PART 15 SUBPART C INDUSTRY CANADA RSS-247

Test Standard	FCC Part 15.247 RSS-247 issue 2 and RSS-GEN issue 5
Product name	Evolve Universal 8 inch Headrest Monitor
Brand Name	Ford
Model No.	661182
Test Result	Pass
Statements of Conformity	Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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).

Approved by:

Komil Tson

Kevin Tsai **Deputy Manager** 

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

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# **Revision History**

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	July 20, 2021	Initial Issue	ALL	May Lin
01	July 28, 2021	See the following Note Rev. (01)	P.39-40	Doris Chu

Rev. (01)

1. Revised Spurious Emission in section 5.5.4.



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# 1. GENERAL INFORMATION

# **1.1 EUT INFORMATION**

Applicant	JET OPTOELECTRONICS CO., LTD. 3F., No.300, Yangguang St., Neihu Dist., Taipei City 11491, Taiwan
Manufacturer	JET OPTOELECTRONICS CO., LTD. 3F., No.300, Yangguang St., Neihu Dist., Taipei City 11491, Taiwan
Equipment	Evolve Universal 8 inch Headrest Monitor
Model No.	661182
Model Discrepancy	N/A
Trade Name	Ford
Received Date	April 29, 2021
Date of Test	June 08 ~ July 27, 2021
Power Supply	Power from Power Supply: DC 12V
HW Version	20210208 D01
SW Version	95126
EUT Serial #	GA51RW0011030013
Romark:	·

#### Remark:

1. For more details, please refer to the User's manual of the EUT.

2. Disclaimer: Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

3. The EUT (model: 661182) had been tested under operating condition.



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## **1.2 EUT CHANNEL INFORMATION**

Frequency Range	802.11b/g/n HT 20: 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
Number of channel	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 C63.10: 2013 clause 5.6.1 Table 4 and RSS-GEN Table A1 for test channels

Number of frequencies to be tested				
Frequency range inNumber ofLocation in frequencywhich device operatesfrequenciesrange 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	3	1 near top, 1 near middle, and 1 near bottom		



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## **1.3 ANTENNA INFORMATION**

Antenna Type	🛛 Ceramic 🗌 PCB 🗌 Dipole 🗌 Coils
Antenna Gain	chain0: Gain :1 dBi chain1: Gain :1 dBi Power Directional Gain: 4.01 dBi
Antenna Connector	N/A

Remark:

1. The antenna(s) of the EUT are permanently attached and there are no provisions for connection to an external antenna. So the EUT complies with the requirements of §15.203 and RSS-Gen 6.8.

# **1.4 MEASUREMENT UNCERTAINTY**

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	+/- 1.2575
Emission bandwidth, 20dB bandwidth	+/- 0.0014
RF output power, conducted	+/- 1.14
Power density, conducted	+/- 1.40
3M Semi Anechoic Chamber / 30M~200M	+/- 4.12
3M Semi Anechoic Chamber / 200M~1000M	+/- 4.68
3M Semi Anechoic Chamber / 1G~8G	+/- 5.18
3M Semi Anechoic Chamber / 8G~18G	+/- 5.47
3M Semi Anechoic Chamber / 18G~26G	+/- 3.81
3M Semi Anechoic Chamber / 26G~40G	+/- 3.87

#### 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.



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# **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, Taiwan. (R.O.C.)

CAB identifier: TW1309

Test site	Test Engineer	Remark
AC Conduction Room	-	Not applicable, because EUT doesn't connect to AC Main Source direct.
Radiation	Ray Li	-
RF Conducted	Lance Chen	-

**Remark:** The lab has been recognized as the FCC accredited lad under the KDB 974614 D01 and is listed in the FCC pubic Access Link (PAL) database, FCC Registration No. :444940, the FCC Designation No.:TW1309

## **1.6 INSTRUMENT CALIBRATION**

RF Conducted Test Site					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EXA Signal Analyzer	KEYSIGHT	N9010B	MY55460167	09/07/2020	09/06/2021
Coaxial Cable	Woken	WC12	CC003	06/29/2020	06/28/2021
Coaxial Cable	Woken	WC12	CC001	06/29/2020	06/28/2021
Signal Analyzer	R&S	FSV 40	101073	09/17/2020	09/16/2021
Power Meter	Anritsu	ML2487A	6K00003260	05/24/2021	05/23/2022
Power Seneor	Anritsu	MA2490A	032910	05/24/2021	05/23/2022
Software			N/A		

Remark: Each piece of equipment is scheduled for calibration once a year.

#### For July 27, 2021

RF Conducted Test Site					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EXA Signal Analyzer	KEYSIGHT	N9010B	MY55460167	09/07/2020	09/06/2021
Coaxial Cable	Woken	WC12	CC003	06/28/2021	06/27/2022
Coaxial Cable	Woken	WC12	CC001	06/28/2021	06/27/2022
Signal Analyzer	R&S	FSV 40	101073	09/17/2020	09/16/2021
Power Meter	Anritsu	ML2487A	6K00003260	05/24/2021	05/23/2022
Power Seneor	Anritsu	MA2490A	032910	05/24/2021	05/23/2022
Software			N/A		



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3M 966 Chamber Test Site						
Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal Due	
Band Reject Filters	MICRO TRONICS	BRM 50702	120	02/08/2021	02/07/2022	
Bilog Antenna	Sunol Sciences	JB3	A030105	07/24/2020	07/23/2021	
Horn Antenna	ETS LINDGREN	3116	00026370	12/11/2020	12/10/2021	
Coaxial Cable	HUBER SUHNER	SUCOFLEX 104PEA	20995	02/24/2021	02/23/2022	
Coaxial Cable	EMCI	EMC105	190914+327109/4	09/19/2020	09/18/2021	
K Type Cable	Huber+Suhner	SUCOFLEX 102	29406/2	12/09/2020	12/08/2021	
K Type Cable	Huber+Suhner	SUCOFLEX 102	22470/2	12/09/2020	12/08/2021	
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	01/06/2021	01/05/2022	
double Ridged Guide Horn Antenna	ETC	MCTD 1209	DRH13M02003	09/30/2020	09/29/2021	
Loop Ant	COM-POWER	AL-130	121051	04/07/2021	04/06/2022	
Pre-Amplifier	EMEC	EM330	060609	02/24/2021	02/23/2022	
Pre-Amplifier	HP	8449B	3008A00965	12/25/2020	12/24/2021	
Pre-Amplifier	MITEQ	AMF-6F-18004000-37-8P	985646	09/02/2020	09/01/2021	
PSA Series Spectrum Analyzer	Agilent	E4446A	MY46180323	07/24/2020	07/23/2021	
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	
Software		e3 6.11-2	0180419c			

Remark: Each piece of equipment is scheduled for calibration once a year.



# **1.7 SUPPORT AND EUT ACCESSORIES EQUIPMENT**

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

	Support Equipment						
No.	Io. Equipment Brand Model Series No. FCC ID IC						
1	DC Power Source	Agilent	E3640A	N/A	N/A	N/A	
2	DC Power Source	GWINSTEK	SPS-3610	N/A	N/A	N/A	
3	NB(J)	TOSHIBA	PT345T-00L002	N/A	PD97260H	1000M-7260H	

# **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, RSS-247 Issue 2 and RSS-GEN Issue 5.



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# 2. TEST SUMMARY

FCC Standard Section	IC Standard Section	Report Section	Test Item	Result
15.203	RSS-Gen 6.8	1.3	Antenna Requirement	Pass
15.207(a)	RSS-GEN 8.8	4.1	AC Conducted Emission	N/A
15.247(a)(2)	RSS-247(5.2)(a)	4.2	6 dB Bandwidth	Pass
-	RSS-GEN 6.7	4.2	Occupied Bandwidth (99%)	Pass
15.247(b)(3)	RSS-247(5.4)(d)	4.3	Output Power Measurement	Pass
15.247(e)	RSS-247(5.2)(b)	4.4	Power Spectral Density	Pass
15.247(d)	RSS-247(5.5)	4.5	Conducted Band Edge	Pass
15.247(d)	RSS-247(5.5)	4.5	Conducted Emission	Pass
15.247(d)	RSS-GEN 8.9, 8.10	4.6	Radiation Band Edge	Pass
15.247(d)	RSS-GEN 8.9, 8.10	4.6	Radiation Spurious Emission	Pass



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# 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 :MCS8
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 : 2437MHz 2. Middle Channel : 2437MHz 3. Highest Channel : 2462MHz
Operation Transmitter	IEEE 802.11b mode : 2T2R IEEE 802.11g mode : 2T2R IEEE 802.11n HT20 mode : 2T2R

#### Remark:

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

2. The worst-case data rates are determined to be as follows for each mode based upon investigations by measuring the peak power, average power and PSD across all date rates, bandwidths, and modulations. The device supports SISO and MIMO at 802.11 n mode, per pre-test, MIMO 2TX mode was the worst and reported.



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## **3.2 THE WORST MODE OF MEASUREMENT**

Radiated Emission Measurement Above 1G			
Test Condition	Radiated Emission Above 1G		
Power supply Mode	Power supply Mode Mode 1: EUT power by Power supply		
Worst Mode	🔀 Mode 1 🗌 Mode 2 🗌 Mode 3 🗌 Mode 4		
Worst Position	<ul> <li>Placed in fixed position.</li> <li>Placed in fixed position at X-Plane (E2-Plane)</li> <li>Placed in fixed position at Y-Plane (E1-Plane)</li> <li>Placed in fixed position at Z-Plane (H-Plane)</li> </ul>		

Radiated Emission Measurement Below 1G				
Test Condition Radiated Emission Below 1G				
Power supply Mode	Power supply Mode Mode 1: EUT power by Power supply			
Worst Mode   Mode 1 Mode 2 Mode 3 Mode 4				

Remark:

1. The worst mode was record in this test report.

2. EUT pre-scanned in three axis ,X,Y, Z and two polarity, for radiated measurement. The worst case(Z-Plane) were recorded in this report



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# 4. EUT DUTY CYCLE

Temperature:	25.1℃	Humidity:	51.3	% RH	
Tested by:	Lance Che	n Test date:	June 08, 2021		
Duty Cycle					
Configuration	Duty Cycle (%)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)	
802.11b	98.91	0.05	0.12	0.01	
802.11g	93.36	0.30	0.72	1.00	
000 44 - 11700	07.07	0.50	1.10	0.00	





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## 5. TEST RESULT

# **5.1 AC POWER LINE CONDUCTED EMISSION**

### 5.1.1 Test Limit

According to §15.207(a)(2) and RSS-GEN section 8.8,

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	

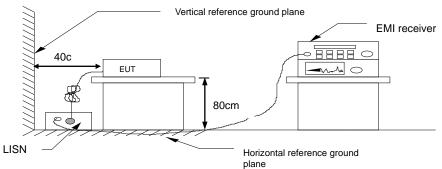
\* Decreases with the logarithm of the frequency.

### 5.1.2 Test Procedure

Test method Refer as ANSI C63.10: 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.

### 5.1.3 Test Setup



## 5.1.4 Test Result

Not applicable, because EUT doesn't connect to AC Main Source direct.



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## 5.2 6dB BANDWIDTH AND OCCUPIED BANDWIDTH (99%)

### 5.2.1 Test Limit

According to §15.247(a)(2) and RSS-247 section 5.2(a),

#### 6 dB Bandwidth :

Limit

Shall be at least 500kHz

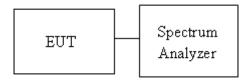
**Occupied Bandwidth(99%)** : For reporting purposes only.

### 5.2.2 Test Procedure

Test method Refer as ANSI C63.10: 2013,

- 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 6 dB Bandwidth.
- 4. SA set RBW = 1% ~ 5% OBW, VBW = three times the RBW and Detector = Peak, to measurement 99% Bandwidth
- 5. Measure and record the result of 6 dB Bandwidth and 99% Bandwidth. in the test report.

### 5.2.3 Test Setup





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### 5.2.4 Test Result

Temperature:	25.1℃	Humidity:	51.3% RH
Tested by:	Lance Chen	Test date:	June 08, 2021

Test mode: IEEE 802.11b mode / 2412-2462 MHz						
ChannelFrequency (MHz)OBW (99%) (MHz)6dB BW (MHz)6dB limit (kHz)						
Low	2412	13.682	9.101			
Mid	2437	13.728	9.057	≥500		
High	2462	14.660	9.568			

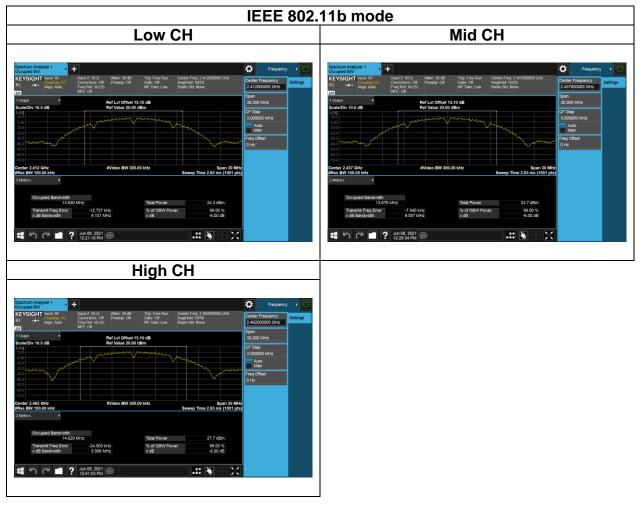
Test mode: IEEE 802.11g mode / 2412-2462 MHz					
ChannelFrequency (MHz)OBW (99%) (MHz)6dB BW (MHz)6dB limit (kHz)					
Low	2412	17.294	15.13		
Mid	2437	19.257	15.15	≥500	
High	2462	18.970	15.15		

Test mode: IEEE 802.11n HT 20 MHz mode / 2412-2462 MHz							
Channel	Frequency (MHz)	Chain 0 OBW(99%) (MHz)	Chain 1 OBW(99%) (MHz)	Chain 0 6dB BW (MHz)	Chain 1 6dB BW (MHz)	6dB limit (kHz)	
Low	2412	17.827	17.673	15.15	15.14		
Mid	2437	18.680	18.138	15.15	15.15	≥500	
High	2462	18.590	18.075	15.15	15.15		



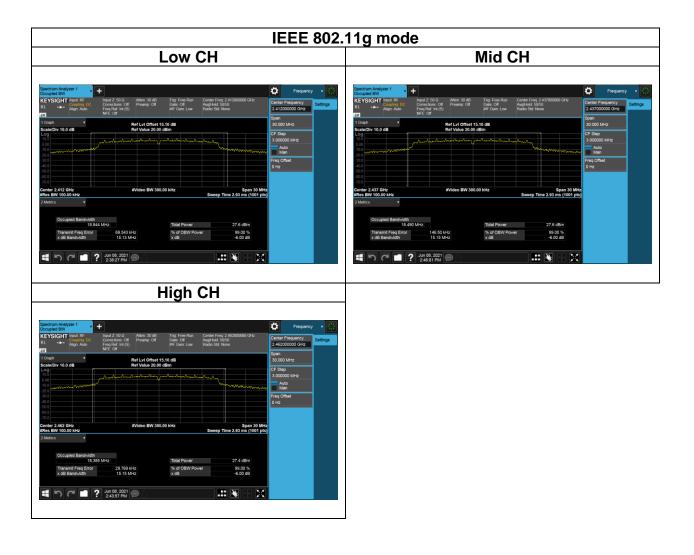
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### Test Data 6dB BANDWIDTH



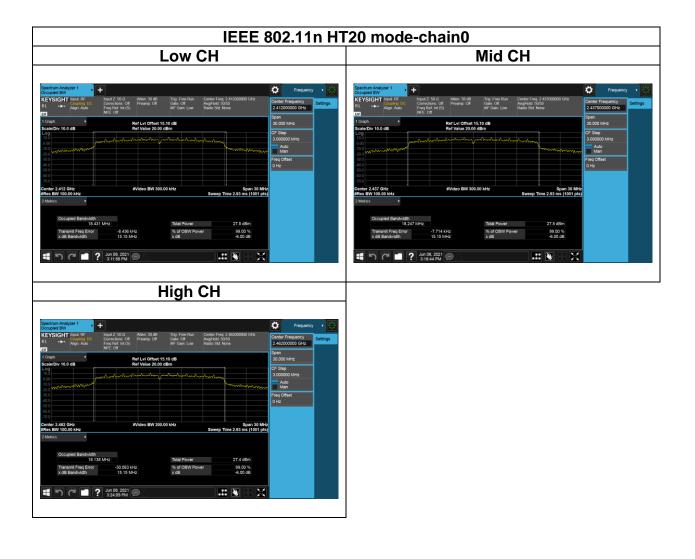


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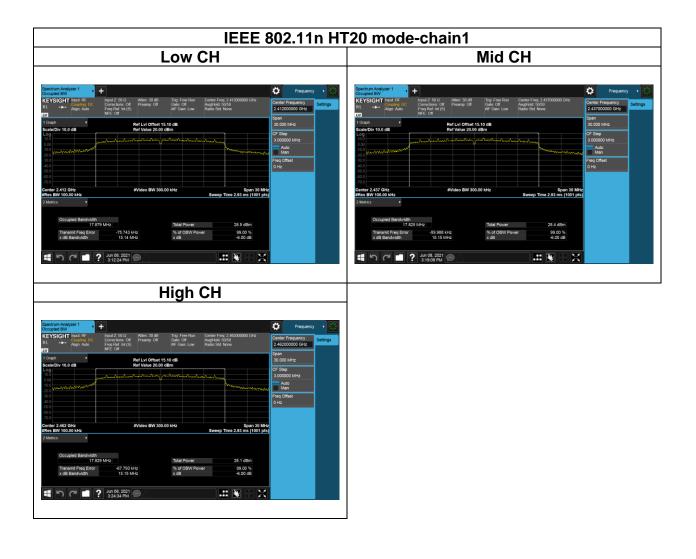


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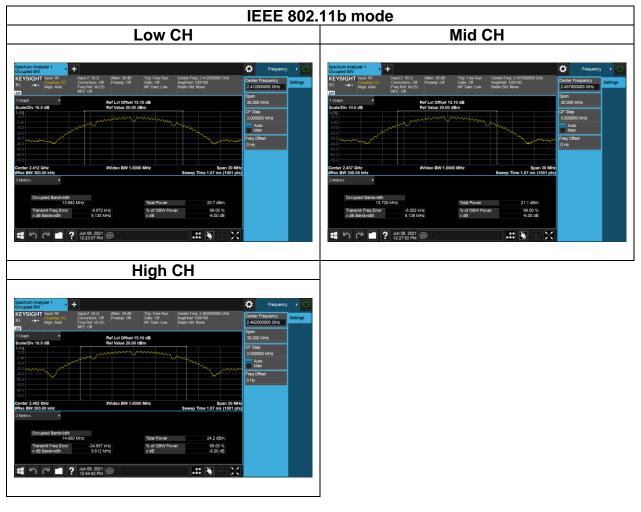
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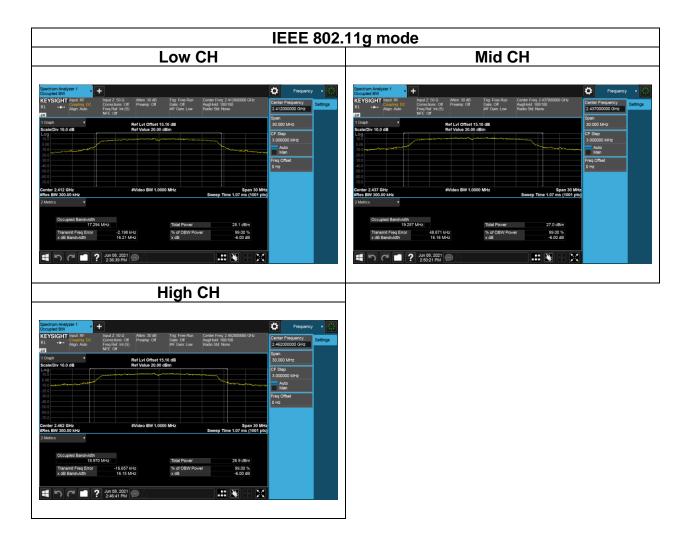
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### Test Data BANDWIDTH 99%



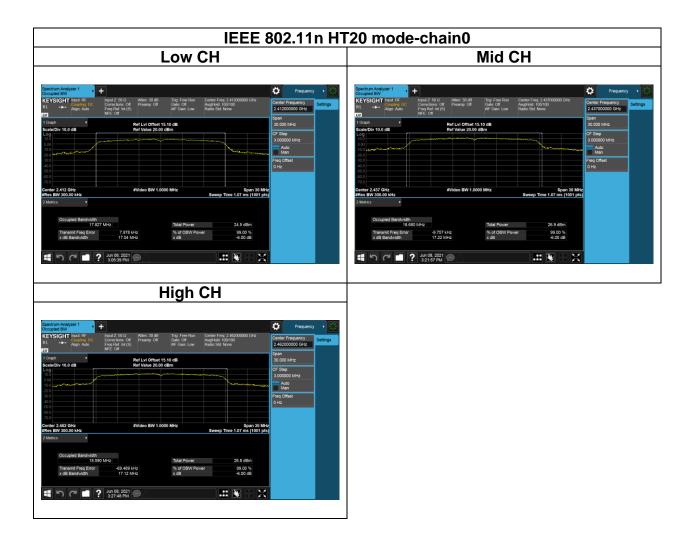


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## **5.3 OUTPUT POWER MEASUREMENT**

### 5.3.1 Test Limit

According to §15.247(b) and RSS-247 section 5.4(d),

#### Peak output power :

#### FCC:

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement,

IC:

For systems using digital modulation in the 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt(30 dBm) and the e.i.r.p. 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.

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement,

<ul> <li>Antenna not exceed 6 dBi : 30dBm</li> <li>Antenna with DG greater than 6 dBi :</li> </ul>
[Limit = 30 − (DG − 6)] □ Point-to-point operation :

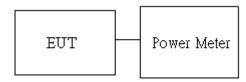
Average output power : For reporting purposes only.

### **5.3.2 Test Procedure**

Test method Refer as ANSI C63.10:2013.

- 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.
- 4. Measure and record the result of Peak output power and Average output power. in the test report.

### 5.3.3 Test Setup





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### 5.3.4 Test Result

Temperature:	<b>25.1</b> ℃	Humidity:	51.3% RH
Tested by:	Lance Chen	Test date:	June 08, 2021

#### Peak output power :

	Wifi 2.4G												
Config	СН	Freq.		ower PK Power tting (dBm)			PK Total Power	EIRP PK Total	EIRP PK Total	DG	Limit	EIRP Limit	
5	-	(MHz)	chain0	chain1	chain0	chain1	(dBm)	(W)		Power (W)	(dBi)	(dBm)	(dBm)
IEEE	Low	2412	18.0	-	23.25	I	23.25	0.2113	24.25	0.2661			
802.11b Data rate:	Mid	2437	18.0	-	23.46	1	23.46	0.2218	24.46	0.2793			
1Mbps	High	2462	17.0	-	22.67	-	22.67	0.1849	23.67	0.2328			
IEEE	Low	2412	-	17.0	-	23.14	23.14	0.2061	24.14	0.2594			
802.11b Data rate:	Mid	2437	-	17.0	-	23.43	23.43	0.2203	24.43	0.2773			
1Mbps	High	2462	-	16.0	-	22.46	22.46	0.1762	23.46	0.2218			
IEEE	Low	2412	19.0	-	24.78	-	24.78	0.3006	25.78	0.3784			
802.11g Data rate:	Mid	2437	20.0	-	25.03	-	25.03	0.3184	26.03	0.4009	1	30	36
6Mbps	High	2462	16.0	-	24.75	-	24.75	0.2985	25.75	0.3758			
IEEE	Low	2412	-	14.0		24.73	24.73	0.2972	25.73	0.3741			
802.11g Data rate:	Mid	2437	-	14.0		24.84	24.84	0.3048	25.84	0.3837			
6Mbps	High	2462	-	14.0		24.39	24.39	0.2748	25.39	0.3459			
IEEE 802.11n	Low	2412	18	.0	23.96	24.92	27.48	0.5593	28.48	0.7042			
HT20	Mid	2437	21	.0	24.73	26.24	28.56	0.7179	29.56	0.9038			
Data rate: MCS8	High	2462	16	.0	23.34	23.71	26.54	0.4507	27.54	0.5674			



#### Average output power :

Wifi 2.4G								
Config	СН	Freq.	AV Pow	er(dBm)	AV Total Power			
comig	on	(MHz)	chain0	chain1	(dBm)			
IEEE 802.11b	Low	2412	21.47	-	21.47			
Data rate:	Mid	2437	21.61	-	21.61			
1Mbps	High	2462	20.63	-	20.63			
IEEE 802.11b	Low	2412	-	21.42	21.42			
Data rate:	Mid	2437	-	21.20	21.20			
1Mbps	High	2462	-	20.34	20.34			
IEEE 802.11g	Low	2412	20.04	-	20.04			
Data rate:	Mid	2437	21.05	-	21.05			
6Mbps	High	2462	17.58	-	17.58			
IEEE 802.11g	Low	2412	-	16.11	16.11			
Data rate:	Mid	2437	-	16.19	16.19			
6Mbps	High	2462	-	16.09	16.09			
IEEE 802.11n	Low	2412	17.56	17.70	21.23			
HT20 Data rate:	Mid	2437	20.15	21.09	24.25			
MCS8	High	2462	15.95	15.56	19.36			

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# **5.4 POWER SPECTRAL DENSITY**

## 5.4.1 Test Limit

According to §15.247(e) and RSS-247 section 5.2(b),

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.

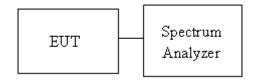
Limit $\bigtriangleup$  Antenna not exceed 6 dBi : 8dBmLimit $\square$  Antenna with DG greater than 6 dBi :[Limit = 8 - (DG - 6)] $\square$  Point-to-point operation :

### 5.4.2 Test Procedure

Test method Refer as ANSI C63.10:2013

- 1. 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 = 10kHz, Span = 1.5 times DTS Bandwidth (6 dB BW), Detector = Peak, Sweep Time = Auto and Trace = Max hold.
- 4. The path loss and Duty Factor were compensated to the results for each measurement by SA.
- 5. Mark the maximum level.
- 6. Measure and record the result of power spectral density. in the test report.

### 5.4.3 Test Setup





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#### 5.4.4 Test Result

Temperature:	25.1℃	Humidity:	51.3% RH
Tested by:	Lance Chen	Test date:	June 08, 2021

Test mode: IEEE 802.11b mode / 2412-2462 MHz					
Channel	Frequency (MHz)	Chain 0 PPSD (dBm)	Chain 1 PPSD (dBm)	Total PPSD (dBm)	Limit (dBm)
Low	2412	7.91	-	7.91	
Mid	2437	7.66	-	7.66	8
High	2462	-5.56	-	-5.56	

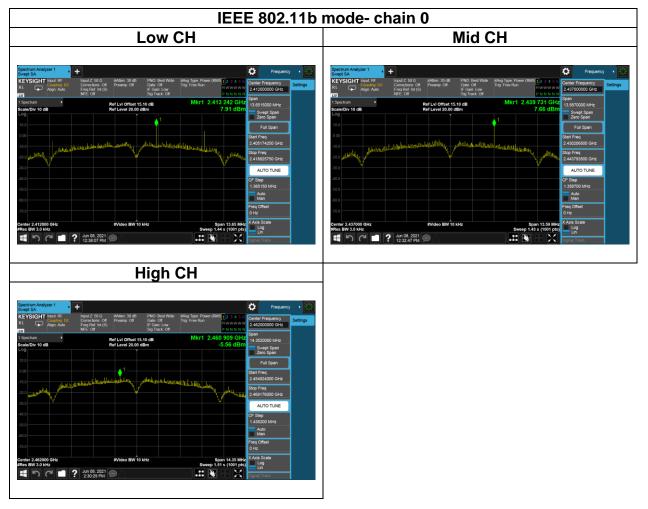
Test mode: IEEE 802.11g mode / 2412-2462 MHz					
Channel	Frequency (MHz)	Chain 0 PPSD (dBm)	Chain 1 PPSD (dBm)	Total PPSD (dBm)	Limit (dBm)
Low	2412	-3.32	-	-3.32	
Mid	2437	-6.4	-	-6.4	8
High	2462	-6.09	-	-6.09	

Test mode: IEEE 802.11n HT 20 MHz mode / 2412-2462 MHz					
Channel	Frequency (MHz)	Chain 0 PPSD (dBm)	Chain 1 PPSD (dBm)	Total PPSD (dBm)	Limit (dBm)
Low	2412	-6.73	-3.77	-1.99	
Mid	2437	-6.26	-4.07	-2.02	8
High	2462	-6.3	-5.44	-2.84	



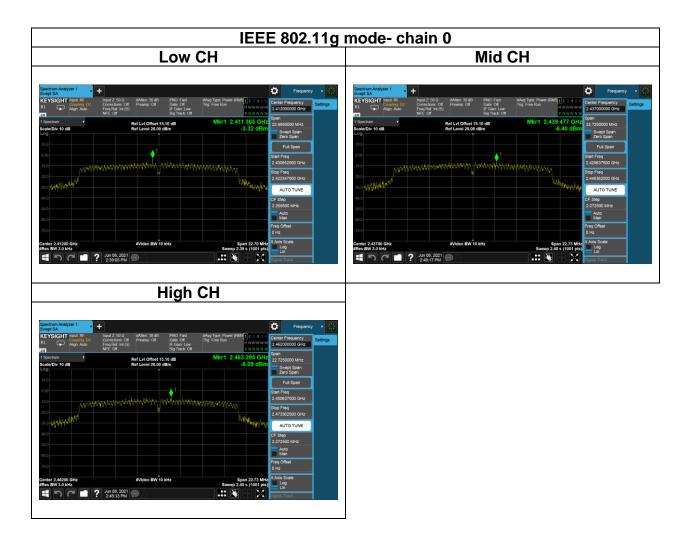
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### Test Data



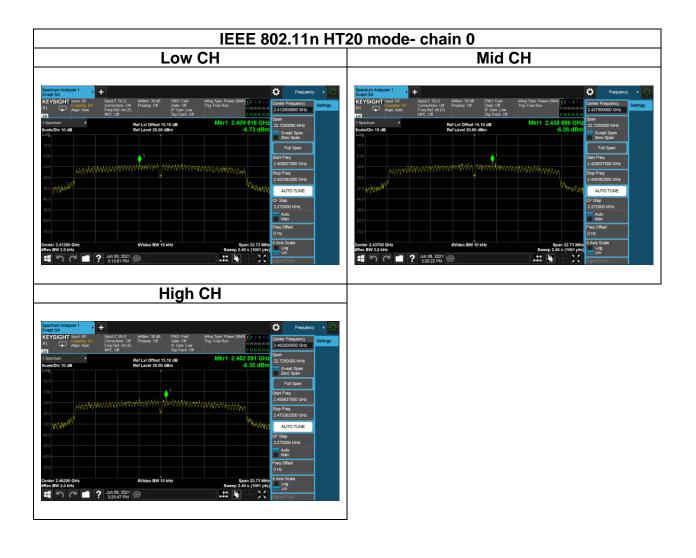


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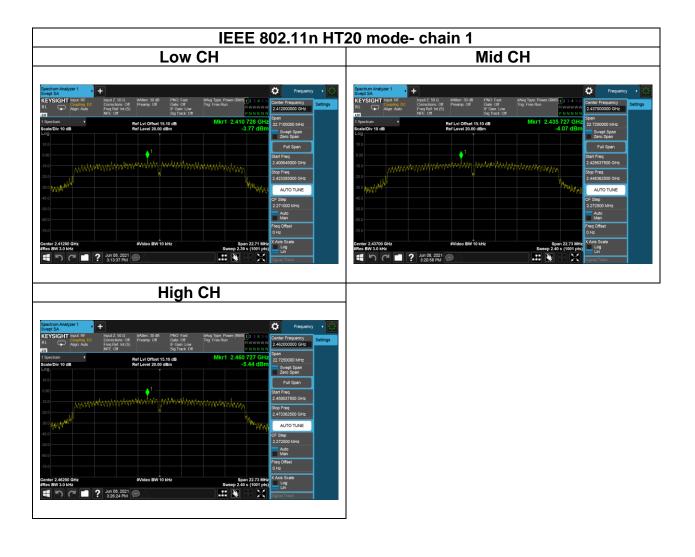


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## 5.5 CONDUCTED BANDEDGE AND SPURIOUS EMISSION

### 5.5.1 Test Limit

According to §15.247(d) and RSS-247 section 5.5,

#### FCC:

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).

#### IC:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, aspermitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

### 5.5.2 Test Procedure

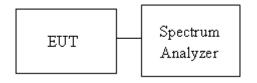
Test method Refer as ANSI C63.10:2013.

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.

### 5.5.3 Test Setup





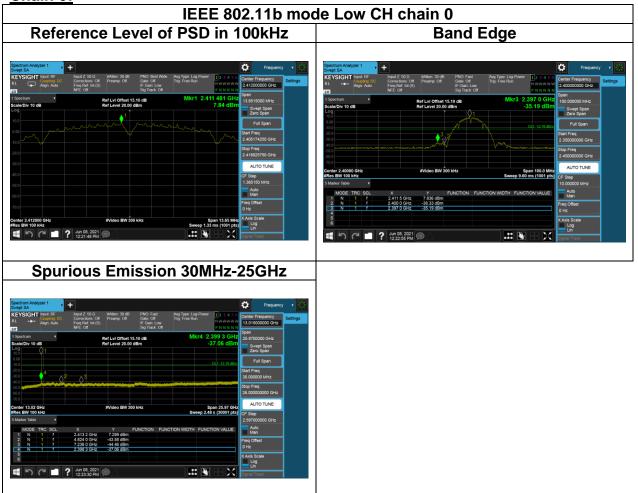
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### 5.5.4 Test Result

### Test Data

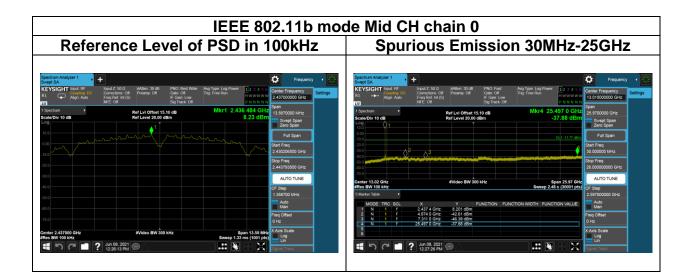
Temperature:	25.1℃	Humidity:	51.3% RH
Tested by:	Lance Chen	Test date:	June 08, 2021
Temperature:	<b>23.2</b> ℃	Humidity:	53.9% RH
Tested by:	Lance Chen	Test date:	July 27, 2021

Chain 0:



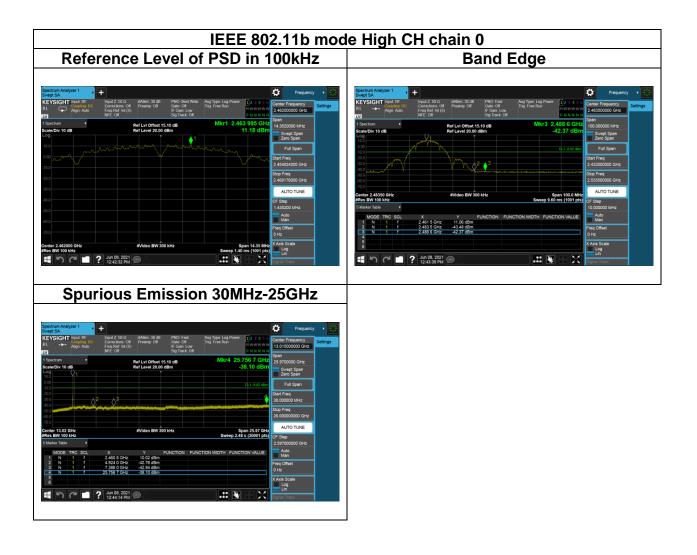


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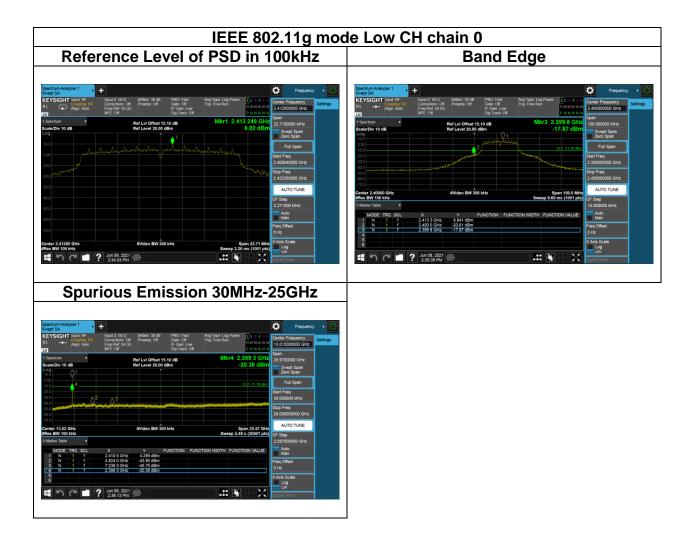


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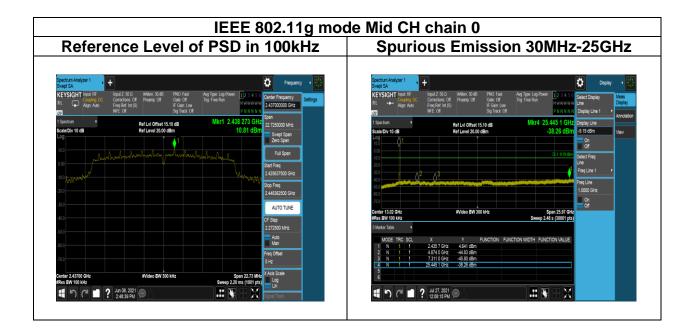


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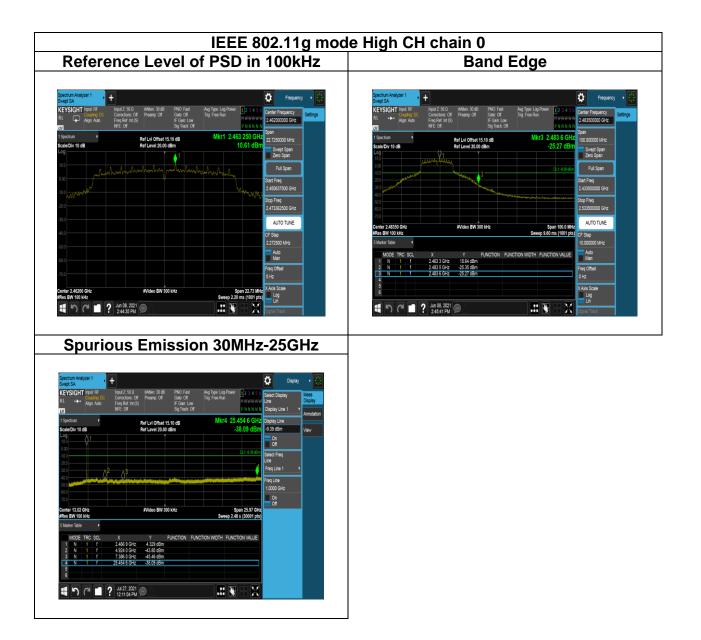


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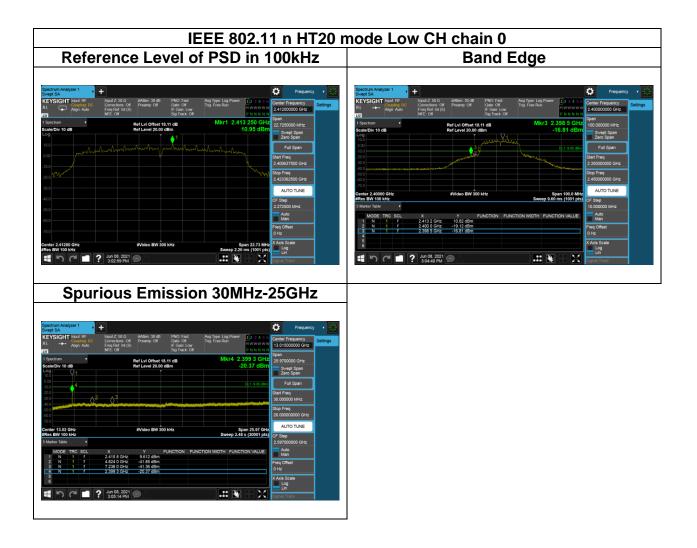


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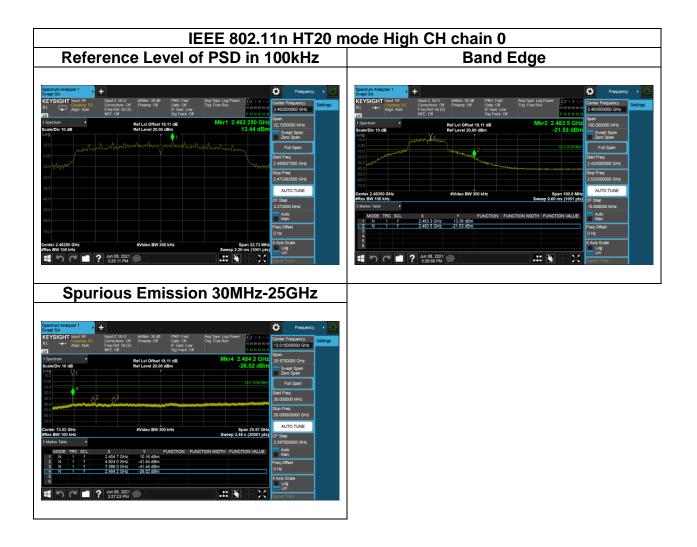


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Reference Level of PSD in 100kHz				Spur	ious Emissio	on 30MHz-2	25GHz
Coupling DC	xputZ:50 Ω #Atten:30 dB PNC:Fast corrections:Off Preamp:Off Gate.Off	Avg Type: Log-Power 12 3 4 5 6 Trig: Free Run	Center Frequency Settings	Spectrum Analyzer 1 Swept SA KEYSIGHT Input: RF Coupring OC R1 ++ Align Auto	Input Z: 50 D. #Atten: 30 dB PNO: Fast Corrections: Off Preeing: Off Gale: Off	Avg Type Log-Power 12 3 4 5 6 Trig. Fine Run MWWWWWW	Center Frequency
	reg Ref Int (S) IF Gain Low FE: Off Ref Lvi Offset 18.11 dB Ref Level 20.00 dBm	MWWWWW PNNNNN Mkr1 2.438 250 GHz 13.55 dBm	2.437000000 GHz Span 22.7250000 MHz Swept Span Zero Span	Align: Auto	Freq Ref. Int (S) IF Gain Low NFE Off Sig Track: Off Ref Lvi Offset 18.11 dB Ref Level 20.00 dBm		13.015000000 GHz Span 25.9700000 GHz Swept Span Zero Span
10 montheader	alantandron por hours.	mhonthing had and	Full Span Start Freq 2.425637500 GHz	100 0.00 -100 -200 -300	2 03	DL1-6-45 dBvn	Full Span Start Freq 30.000000 MHz
			Stop Freq 2.448362500 GHz AUTO TUNE	-400 -500 -800 -700 Center 13.02 GHz	#Video BW 300 kHz	Soan 25.97 GHz	Stop Freq 26.00000000 GHz AUTO TUNE
			CF Step 2.272500 MHz Auto Man	#Res BW 100 kHz 5 Marker Table * MODE TRC SCL			
10 0 enter 2.43700 GHz Res BW 100 kHz	#Video BW 300 kHz	Span 22.73 MHz	Freq Offset 0 Hz X Axis Scale	- 2 N 1 + + + + + + + + + + + + + + + + + +	4.874 O GHz 4.1.52 dBm 7.311 0 GHz 441.60 dBm 25.607 9 GHz -35.37 dBm		Freq Offset 0 Hz X Axis Scale Log
	Jun 08, 2021 🗩 🛆	Sweep 2.20 ms (1001 pts)	Lin Signal Track	<b>4</b> 57 <b>1</b>	? Jun 08, 2021 🗩 🛆	💥 X	Lin Signal Track



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# **5.6 RADIATION BANDEDGE AND SPURIOUS EMISSION**

# 5.6.1 Test Limit

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

IC according to RSS-247 section 5.5, RSS-Gen, Section 8.9 and 8.10

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

Remark:

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open are test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.



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#### IC according to RSS-247 section 5.5, RSS-Gen, Section 8.9 and 8.10

#### <u>RSS-Gen Table 3 and Table 5 – General Field Strength Limits for Transmitters and</u> <u>Receivers at Frequencies Above 30 MHz</u> (Note)

Frequency	Field Strength microvolts/m at 3 metres (watts, e.i.r.p.)				
(MHz)	Transmitters	Receivers			
30-88	100 (3 nW)	100 (3 nW)			
88-216	150 (6.8 nW)	150 (6.8 nW)			
216-960	200 (12 nW)	200 (12 nW)			
Above 960	500 (75 nW)	500 (75 nW)			

**Note:** Measurements for compliance with the limits in table 3 may be performed at distances other than 3 metres, in accordance with Section 6.6.

#### <u>RSS-Gen Table 6: General Field Strength Limits for Transmitters at Frequencies</u> <u>Below 30 MHz (Transmit)</u>

Frequency	Magnetic field strength (H-Field) (µA/m)	Measurement Distance (m)
9-490 kHz <sup>Note</sup>	6.37/F (F in kHz)	300
490-1,705 kHz	63.7/F (F in kHz)	30
1.705-30 MHz	0.08	30

**Note:** The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.



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### 5.6.2 Test Procedure

Test method Refer as ANSI C63.10:2013.

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: 2013, 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)

Remark:

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open are test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

- 4. 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  $\geq$  98%, VBW=10Hz.

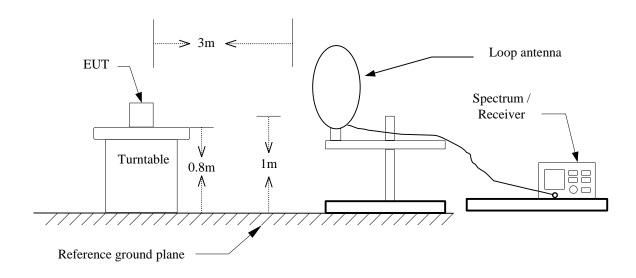
If Duty Cycle < 98%, VBW=1/T.



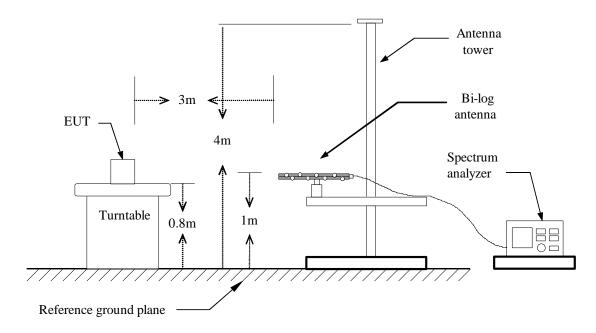
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# 5.6.3 Test Setup

### <u>9kHz ~ 30MHz</u>



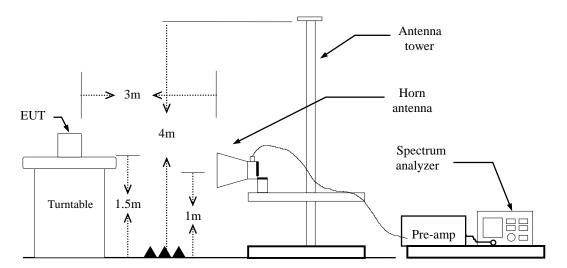
#### <u>30MHz ~ 1GHz</u>





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### Above 1 GHz





# 5.6.4 Test Result

### Band Edge Test Data

Test Mod	le IEE	E 802.11b Low ( 2412MHz	CH T	emp/Hum	22.6(°C	)/ 50%RH
Test Iter	n	Band Edge		Fest Date	June 2	11, 2021
Polarize	9	Vertical		st Engineer	Ra	ay Li
Detecto	r	Peak / Average				
120 Level (dBuV	/m)					
90					$\frown$	
70				~~	1	
50 	man	wanter and the second	-	and the second		<u> </u>
30						
10						
0 <sup>L</sup> 2310	2334.	2358. Free	23 quency (MHz)	382.	2406.	2430
Frequency	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV) Peak	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
0000.00		47.66	-1.00	46.66	74.00	-27.34
2390.00 2390.00	Average	38.37	-1.00	37.37	54.00	-16.63



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Test Mod	e	802.11b Low ( 2412MHz		emp/Hum		)/ 50%R⊦
Test Item	1	Band Edge		Fest Date	June '	11, 2021
Polarize		Horizontal	Tes	st Engineer	Ra	ay Li
Detector	·   F	Peak / Average				
120 Level (dBuV/r 110 90 70 50 30	n)					
10						
				382.	2406.	2430
0 <mark></mark> 2310	2334.	2358.				
0 <mark></mark> 2310	2334.		juency (MHz)			
02310	Detector	Free		Actual	Limit	Margin
Frequency	Detector Mode	Free Spectrum Reading Level	Factor	Actual FS	@3m	-
Frequency (MHz)	Detector Mode (PK/QP/AV)	Free Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	@3m (dBµV/m)	(dB)
Frequency	Detector Mode	Free Spectrum Reading Level	Factor	Actual FS	@3m	-



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Test Mode	e IEEE	802.11b High ( 2462MHz	CH Te	emp/Hum	22.6(°C)	)/ 50%RH
Test Item		Band Edge	1	Fest Date	June 1	1, 2021
Polarize		Vertical		st Engineer	Ra	ay Li
Detector	F	Peak / Average				
120 Level (dBuV/r 110 90 70 50 30	n)					
10 0 2450	2470.	2490. Fred	2! juency (MHz)	510.	2530.	2550
	Detector	Spectrum	Factor	Actual	Limit	Margin
Frequency (MHz)	Detector Mode (PK/QP/AV)	Reading Level (dBµV)	(dB)	FS (dBµV/m)	@3m (dBµV/m)	(dB)
	Mode	Reading Level	(dB) -0.66	_	_	-



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Test Mod	le IEEE	802.11b High 2462MHz	CH T	emp/Hum	22.6(°C)	)/ 50%RH	
Test Iter	n	Band Edge		Test Date	June 1	June 11, 2021	
Polarize	9	Horizontal		st Engineer	Ra	ay Li	
Detecto	r F	Peak / Average					
120 Level (dBuV/ 110	m)						
90							
70	$\sim$						
50		maniphone	m Meyer when the	hard the second the second	manna an	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
30							
10							
0	2470.	2490.	2	5 <b>10.</b>	2530.	2550	
°2450							
0 <mark></mark> 2450			quency (MHz)				
<sup>22450</sup> Frequency	Detector	Spectrum	quency (MHz) Factor	Actual	Limit	Margin	
Frequency	Detector Mode	Spectrum Reading Level	Factor	FS	@3m	-	
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	FS (dBµV/m)	@3m (dBµV/m)	(dB)	
Frequency	Detector Mode	Spectrum Reading Level	Factor	FS	@3m	-	



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Test Mod	e IEEE	802.11g Low ( 2412MHz	CH T	emp/Hum		)/ 50%RH
Test Item	า	Band Edge		Test Date	June 1	1, 2021
Polarize		Vertical		st Engineer	Ra	ay Li
Detector	· F	Peak / Average				
120 Level (dBuV/r 110 90 70 50	m)					- Long
30						
10						
0 <mark> 2310</mark>	2334.	2358. Fred	2 quency (MHz)	382.	2406.	2430
Frequency	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
2390.00	Peak	65.49	-1.00	64.49	74.00	-9.51
	Average	51.50	-1.00	50.50	54.00	-3.50
2390.00	/ Woruge	01100				



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Test Mod	e	802.11g Low ( 2412MHz		emp/Hum		)/ 50%RH	
Test Iten	n	Band Edge		Fest Date	June 1	June 11, 2021	
Polarize	)	Horizontal	Tes	st Engineer	Ra	ay Li	
Detector	r F	eak / Average					
120 Level (dBuV/ 110	m)						
90				~~	/	tran	
70				mut the second			
50 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	mmenn herend	Marganes In meters	have a start and the start	2			
30							
10							
0 2310	2334.	2358.	2	382.	2406.	2430	
			quency (MHz)			2100	
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)	
2390.00	Peak	66.09	-1.00	65.09	74.00	-8.91	
2390.00	Average	51.73	-1.00	50.73	54.00	-3.27	



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	2462MHz		emp/Hum	22.6(°C)	/ 50%RH
	Band Edge	٦	Fest Date	June 1	1, 2021
	Vertical		st Engineer		ay Li
P	Peak / Average				
) 		mandredense			
2470.	2490. Freq		510.	2530.	2550
Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
Peak	65.40	-0.66	64.74	74.00	-9.26
			1		
	) 2470. Detector Mode (PK/QP/AV)	Peak / Average	Peak / Average	Peak / Average	Peak / Average         ))         ))         ()         )         )



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Test Mod	e IEEE	E 802.11g High 2462MHz	СН Т	emp/Hum	22.6(°C	)/ 50%R⊦
Test Item	า	Band Edge	-	Test Date	June '	11, 2021
Polarize	•	Horizontal Test Engineer		Ra	ay Li	
Detector	r F	Peak / Average				
120 Level (dBuV/r 110 90 70 50	n)					
30						
0 <mark></mark>	2470	2400		540	2520	2550
2450	2470.	2490. Free	quency (MHz)	510.	2530.	2550
Frequency	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(8411-)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
(MHz)	· · · · · · · · · · · · · · · · · · ·					
(MHz) 2483.50 2483.50	Peak	62.60	-0.66	61.94	74.00	-12.06 -4.75



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Test Mode		.11n HT20 Low 2412MHz		emp/Hum		)/ 50%RH
Test Item	E	and Edge		Test Date	June 2	11, 2021
Polarize		Vertical	Tes	Test Engineer		ay Li
Detector	Pea	ak / Average				
120 Level (dBuV/n 110 90 70 50	n)			and the second sec	J	
30						
10						
0 <mark></mark> 2310	2334.	2358. Freq	23 Juency (MHz)	382.	2406.	2430
						Mensia
Frequency	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
Frequency (MHz)		-	Factor (dB)			(dB)
	Mode	Reading Level		FS	@3m	-



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Test Mod		EEE 802.11 n20 w CH 2412MH		emp/Hum	•	
Test Iten	n	Band Edge	-	Test Date	June 11, 2021	
Polarize	e	Horizontal	Te	st Engineer		ay Li
Detecto	r F	Peak / Average				
120 Level (dBuV/ 110	m)				forman	7
70				- Townsh	)	have
50 		under when the where	-	wow		
30						
10						
0 <mark></mark> 2310	2334.	2358. Fred	2 quency (MHz)	382.	2406.	2430
Frequency	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
2390.00	Peak	67.61	-1.00	66.61	74.00	-7.39
2390.00	Average	52.71	-1.00	51.71	54.00	-2.29



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Test Mode		1n HT20 High 462MHz	CH T	emp/Hum	22.6(°C)	/ 50%RH
Test Item	Ba	and Edge	7	Test Date	June 11, 2021	
Polarize		Vertical	Tes	st Engineer		iy Li
Detector	Pea	k / Average				
120 Level (dBuV/r 110 90 70 50 30 10 0 2450	n)	2490.		510.	2530.	2550
		Free	quency (MHz)			
	Detector	Spectrum	Factor	Actual	Limit	Margin
Frequency		I				
	Mode	Reading Level		FS	@3m	
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
		-	<b>(dB)</b> -0.66	-	_	<b>(dB)</b> -9.75



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Test Mod	e	802.11n20 Hig 2462MHz	gh CH	Temp/Hum		)/ 50%RH
Test Iten	n	Band Edge		Test Date	June <sup>2</sup>	11, 2021
Polarize	;	Horizontal	-	Test Engineer	Ra	ay Li
Detecto	r	Peak / Average	•			
120 Level (dBuV/) 110	m)	Marin Marine				
10			 			
0 2450	2470.	2490. Fred	juency (MHz)	2510.	2530.	2550
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
2483.50	Peak	64.36	-0.66	63.70	74.00	-10.30
2483.50	Average	50.91	-0.66	50.25	54.00	-3.75
2483.50	Average	50.91	-0.66	50.25	54.00	-3.75



### Below 1G Test Data

Test Mo	de	Mode 1	T	emp/Hum	22.9(°C	)/ 44%Rł	
Test Ite	m	30MHz-1GHz		Fest Date	June '	June 15, 2021	
Polariz		Vertical		st Engineer	Ra	ay Li	
Detecto	or	Peak	Te	Test Voltage			
120	V/m)						
110							
90				· · · · · · · · · · · · · · · · · · ·			
70							
50							
	2 3						
30			4			6	
				I         I           I         I           I         I           I         I           I         I			
10							
0 <mark></mark> 30	224.	418. Fre	6 quency (MHz)	12.	806.	1000	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
	Mode	Reading Level		FS	@3m		
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
63.95	Peak	54.53	-15.58	38.95	40.00	-1.05	
148.34	Peak	44.07	-10.33	33.74	43.50	-9.76	
250.19	Peak	45.21	-10.82	34.39	46.00	-11.61	
		30.38	-3.39	26.99	46.00	-19.01	
479.11	Peak	30.30					
479.11 842.86	Peak Peak	25.97	2.38	28.35	46.00	-17.65	

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



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			Freque	ency (MHz)			
0	30	224.	418.	612.	-	806.	1000
10							
30	1	3	1 1 1 1 1 1 1 1 1 1 1	4 5			6
50	2						
70							
90							
110							
120	Level (dBuV/m)	1					
	Level (dBuV/m)						
	Detector		Peak	Test Vo	ltage		
	Polarize		Horizontal	Test En		Ra	y Li
	Test Item	3	0MHz-1GHz	Test D	Date	June 15, 20	
	est Mode		Mode 1	Temp/	Hum	22.9(°C)/ 44%	

Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
61.04	Peak	49.12	-15.87	33.25	40.00	-6.75
144.46	Peak	49.20	-10.18	39.02	43.50	-4.48
225.94	Peak	43.72	-11.43	32.29	46.00	-13.71
517.91	Peak	29.87	-3.11	26.76	46.00	-19.24
578.05	Peak	32.42	-2.05	30.37	46.00	-15.63
975.75	Peak	25.23	4.21	29.44	54.00	-24.56

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



74.00

74.00

-28.42

-18.79

45.58

55.21

### Above 1G Test Data

Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
		Fre	quency (MHz)			
0 <mark></mark> 1000	6100.	11200.		300.	21400.	26500
10				 		
30				       		
50	<b>1</b>					
	2					
70						
90						
110						
120 Level (dBuV/	/m)					1
Detecto	ſ	Peak				
Polarize		Vertical	Tes	t Engineer	Ra	ay Li
Test Iten		Harmonic		est Date		11, 2021
Test Mod		802.11b Low				)/ 50%RI

Remark:	

4824.00

7236.00

N/A

Peak

Peak

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

39.90

42.04

2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

5.68

13.17



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0 <sup>L</sup> 1000	6100.	11200. Frequer	16300. ncy (MHz)	21400.	26500
0				1	
10					
30			i i i i i i i i i i i i i i i i i i i i		1
50	2			     	
70					
70					
90			4		1
110					
120 Level (dBuV/i	m)				
120 Level (dBuV/i	m)				
Detector		Peak			
Polarize		Horizontal	Test Engine	er R	ay Li
Test Item		Harmonic	Test Date		11, 2021
Test Mod		302.11b Low CH	<u> </u>		2)/ 50%RI

Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
4824.00	Peak	37.31	5.68	42.99	74.00	-31.01
7236.00	Peak	38.16	13.17	51.33	74.00	-22.67
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



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0 <sup>L</sup> 1000	6100.	11200. Frequer	1630 <mark>0</mark> . Icy (MHz)	21400.	26500
0					
10			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		 
30		· · · · · · · · · · · · · · · · · · ·			   
50	11	· · · · · · · · · · · · · · · · · · ·			
70	     	1 1 1 1 1 1 1 1 1 1 1 1 1 1		     	 
30					
90					: : : :
110					
120 Level (dBuV/	m)				
Detector	r	Peak			
Polarize	•	Vertical Test Engir			ay Li
Test Item	า	Harmonic	Test Date	June	11, 2021
Test Mod	e IEEE	802.11b Mid CH	Temp/Hun	n 22.6(°C	ː)/ 50%RF

Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
4874.00	Peak	41.67	5.92	47.59	74.00	-26.41
7311.00	Peak	38.38	13.26	51.64	74.00	-22.36
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



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90 70 50 10 0 1000 6100. 11200. 50 10 16300. 21400.			Frequer	cy (MHz)		
70 50 30 10	01000	6100.			21400.	26500
70 50						· · · ·
70 50	30					
70	20					
	50					1 1 1 1 1
90	70					1 1 1 
	90					1
110	110					
120 Level (dBuV/m)	120 Level (dBuV/r	n)				
				iest Engine	er R	ay Li
PolarizeHorizontalTest EngineerRayDetectorPeak						
Test ItemHarmonicTest DateJune 11,PolarizeHorizontalTest EngineerRayDetectorPeak	Test Mod		802.11b Mid CH	•		2)/ 50%RI

Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
4874.00	Peak	40.39	5.92	46.31	74.00	-27.69
7311.00	Peak	35.39	13.26	48.65	74.00	-25.35
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



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0 <mark>1000</mark>	6100.	11200. Frequei	16300. ncy (MHz)	21400.	26500
10					
30			· · · · · · · · · · · · · · · · · · ·		
50	1 2		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	     	1
10					
70					1
90					
00					
110	·		4 +		1
120 Level (dBuV/r	n)				
Detector		Peak			
Polarize		Vertical	Test Engine	er R	ay Li
Test Item		Harmonic	Test Date	June	11, 2021
Test Mode	e liffe	802.11b High CF	Temp/Hun	n 22.6(°C	C)/ 50%Rł

Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
4924.00	Peak	44.22	6.37	50.59	74.00	-23.41
7386.00	Peak	34.94	13.07	48.01	74.00	-25.99
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



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Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
1000	0100.		equency (MHz)		21400.	2030	
0	6100.	11200.	163	00.	21400.	26500	
10				       	       		
30							
50	1 2			         			
70							
90				       			
110				     			
120 Level (dBuV/m	1)						
Detector		FEAK			1		
Polarize Detector		Horizontal Peak	Tes	t Engineer	R	ay Li	
Test Item		Harmonic		est Date		ne 11, 2021	
Test Mode		802.11b High	CH Ie	mp/Hum	22.6(°C	22.6(°C)/ 50%RH	

Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
4924.00	Peak	42.62	6.37	48.99	74.00	-25.01
7386.00	Peak	34.24	13.07	47.31	74.00	-26.69
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



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			Freque	ncy (MHz)			
0	1000	6100.	11200.	16300.	:	21400.	26500
10							
40			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			
30							
50		1					
		2					
70	       			           			
90							
110			· · · · · · · · · · · · · · · · · · ·				
120							
	Level (dBuV/m)						
		·		·	·		
	Detector		Peak				
	Polarize		Vertical	Test Engir	eer Ra		y Li
	Test Item		Harmonic	Test Da	te	June 1	1, 2021
	est Mode	IEEE	802.11g Low C⊢	Temp/Hu	ım	22.6(°C)/ 50%R	

Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
4824.00	Peak	39.94	5.68	45.62	74.00	-28.38
7236.00	Peak	43.10	13.17	56.27	74.00	-17.73
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



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			Frea	uency (MHz)			
0 <mark></mark>	610	0.	11200.		300.	21400.	26500
10							
10			   			   	
30							
20						, , , , ,	
50							
		2					
70							
90							
110	 			     			
120 Level (dBuV/	m)						
Lovel (dBu)/	(22)						
2010010			1 Out				
Detecto			Peak				
Polarize			orizontal		st Engineer		Ray Li
Test Iten	n		armonic		Fest Date		, e 11, 2021
Test Mod	e	IEEE 80	2.11g Low C	Н Т	emp/Hum	22.6(	°C)/ 50%RF

Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
4824.00	Peak	39.95	5.68	45.63	74.00	-28.37
7236.00	Peak	39.53	13.17	52.70	74.00	-21.30
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



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Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
		Free	juency (MHz)			
0 <mark></mark>	6100 <b>.</b>	11200.		300.	21400.	26500
10	· · · · · · · · · · · · · · · · · · ·			I I L		
30						   
50	3					
	2					
70						
90						
00						
110	             			 		
120 Level (dBuV	/m)					;
Detecto		Peak				
Polarize		Vertical		t Engineer		ay Li
Test Iter		Harmonic		est Date	-	11, 2021
Test Mod	le IFF	E 802.11g Mid C	CH Te	emp/Hum	22.6(°C	C)/ 50%RH

Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
4874.00	Peak	43.08	5.92	49.00	74.00	-25.00
7311.00	Peak	40.49	13.26	53.75	74.00	-20.25
7311.00	Average	28.65	13.26	41.91	54.00	-12.09
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.



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			Fre	quency (MH	z)			
0 <mark>1000</mark>	6100.	1	11200.		16300.		21400.	26500
10								
30	· · · · · · · · · · · · · · · · · · ·			, , , , , ,			, , , , , ,	- - - -
50	4	2						
70								
90								
110								
120 Level (dBu)	//m)							
Detecto	or		Peak					·
Polariz			rizontal			st Engineer		Ray Li
Test Iter	m	На	rmonic		Test Da	te	June 11, 202	
Test Mo	de I	EEE 802	2.11g Mid (	CH	Temp/Hum		22.6(°C)/ 50%F	

Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
4874.00	Peak	40.22	5.92	46.14	74.00	-27.86
7311.00	Peak	36.18	13.26	49.44	74.00	-24.56
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



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<sup>0</sup> 1000	6100.	11200. Freque	16300. ncy (MHz)	21400.	26500
0		44000	40000	24.422	
10		· · · · · · · · · · · · · · · · · · ·			
30			· · · · · · · · · · · · · · · · · · ·		1 1 
50	2				
70				     	I I 
90					
110					
120 Level (dBuV/					
Lovel (dBuV/	m)				
Detector		Peak	i oot Engint		(d) <b>=</b> !
Polarize		Vertical	Test Engine		ay Li
Test Item	1	Harmonic	Test Date		11, 2021
Test Mod	e   IEEE 8	302.11g High CF	I Temp/Hur	n   22.6(°C	C)/ 50%RF

Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
4924.00	Peak	37.81	6.37	44.18	74.00	-29.82
7386.00	Peak	32.47	13.07	45.54	74.00	-28.46
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



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		Frequer	ncy (MHz)		
0 <sup>L</sup> 1000	6100.	11200.	16300.	21400.	26500
10				· · · · · · · · · · · · · · · · · · · ·	
30					
50	1 2				
70					
90	           				
			- I I I I I I I I I I I I I I I I I I I		
110					
120 Level (dBuV/r	n)				
Detector		Peak	Test Engine		ay Li
Test Item Polarize		Harmonic Horizontal			<u>11, 2021</u> ay Li
Test Mode		302.11g High CH	I Temp/Hur Test Date	,	2)/ 50%RH

Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
4924.00	Peak	34.82	6.37	41.19	74.00	-32.81
7386.00	Peak	31.73	13.07	44.80	74.00	-29.20
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



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		Freque	ncy (MHz)			
0 <mark>1000</mark>	6100.	11200.	16300.	21	400.	26500
10		·	· · · · · · · · · · · · · · · · · · ·	!		
30						
50		; 	i 	l		
	2					
70	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	i 	   		
90						
110					· • • • • • • • • • • • • • • • • • • •	
120 Level (dBuV/i	n)					
Detector		Peak				
Polarize	١	/ertical	Test Engi	neer	Ray	
Test Item	H	armonic	Test Da	te	June 11, 2021	
Fest Mode	IEEE 802.1	1n HT20 Low C	H Temp/H	um	22.6(°C)/ 50%RH	

Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
4824.00	Peak	41.08	5.68	46.76	74.00	-27.24
7236.00	Peak	41.30	13.17	54.47	74.00	-19.53
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



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0 <sup>L</sup> 1000	6100.	11200. Frequenc	16300. v (MHz)	21400.	26500	
10					· · ·	
50						
30						
50						
50					1	
70	2					
70					1	
90						
110						
	,					
120 Level (dBuV/	m)		1		i	
Detector		Peak				
Polarize		orizontal	Test Engine		ay Li	
Test Item	H	armonic	Test Date		June 11, 2021	
Fest Mode	IEEE 802.1	1n HT20 Low CH	Temp/Hum	$1 22.6(^{\circ})$	22.6(°C)/ 50%R	

Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
4824.00	Peak	41.33	5.68	47.01	74.00	-26.99
7236.00	Peak	44.59	13.17	57.76	74.00	-16.24
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



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Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
0 <mark>1000</mark>	6100.	11200. Fre	16 quency (MHz)	300.	21400.	26500	
10							
50							
30					     	   	
50	3		·				
	2						
70							
90				· · · · · · · · · · · · · · · · · · ·			
110							
120 Level (dBuV/m	)						
Detector		Peak					
Polarize		Vertical		st Engineer		Ray Li	
Test Item		Harmonic		Fest Date	June	June 11, 2021	
Test Mode	IEEE 802	EEE 802.11n HT20 Mid CH Temp/Hum		22.6(°C	22.6(°C)/ 50%Rł		

Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
4874.00	Peak	43.62	5.92	49.54	74.00	-24.46
7311.00	Peak	41.27	13.26	54.53	74.00	-19.47
7311.00	Average	31.03	13.26	44.29	54.00	-9.71
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.



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Test Mode	IEEE 802.	IEEE 802.11n HT20 Mid CH		emp/Hum	22.6(°C	)/ 50%RH
Test Item	F	Harmonic		est Date	June 11, 2021	
Polarize	H	Horizontal		st Engineer		ay Li
Detector		Peak				
120 Level (dBuV	/m)				iii	
110	         			 		
90				         		
70	2			+		
50	1					
50						
30						
10		· · · · · · · · · · · · · · · · · · ·		- - - - - - - - - - - - - - - - - - -		
0 <mark></mark>	<u>6100.</u>	11200.	16	300.	21400.	26500
		Fre	quency (MHz)			
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
4874.00	Peak	44.46	5.92	50.38	74.00	-23.62
7311.00	Peak	46.35	13.26	59.61	74.00	-14.39
				1		
7311.00	Average	35.55	13.26	48.81	54.00	-5.19

Remark:

N/A

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.



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		Frequency (MHz)								
0 <sup>L</sup> 1000	6100.	11200.	16300.	214	400.	26500				
10				1						
30										
50	1 2	· · · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·							
70				 						
90	           	· · · · · · · · · · · · · · · · · · ·								
110		· · · · · · · · · · · · · · · · · · ·								
120 Level (dBuV/	m)	<u>.</u> .	· · · · ·							
Detector	F	Peak								
Polarize		ertical	Test Engi	neer	Ray Li					
Test Item		rmonic	Test Da		June 11, 2021					
est Mode	IEEE 802.111	n HT20 High CH	Temp/H	um	22.6(°C)/ 50%R					

Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
4924.00	Peak	38.16	6.37	44.53	74.00	-29.47
7386.00	Peak	33.46	13.07	46.53	74.00	-27.47
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



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Frequency (MHz)								
0 <mark></mark>	<u>6100.</u>	11200.	16300.	21400.	26500			
10								
30								
50	2							
70		           						
90								
110								
120 Level (dBuV	//m)							
		Curt						
Detector		Peak	Test Engin		ay Li			
Test Item Polarize		rmonic rizontal	Test Date Test Engin		<u>11, 2021</u> ay Li			
		-	-		-			
lest iviode	Node IEEE 802.11n HT20		H Temp/Hu	m   22.6/°(	22.6(°C)/ 50%RI			

Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
(MHz)	(PK/QP/AV)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
4924.00	Peak	38.35	6.37	44.72	74.00	-29.28
7386.00	Peak	37.71	13.07	50.78	74.00	-23.22
N/A						

#### Remark:

- 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

# - End of Test Report -