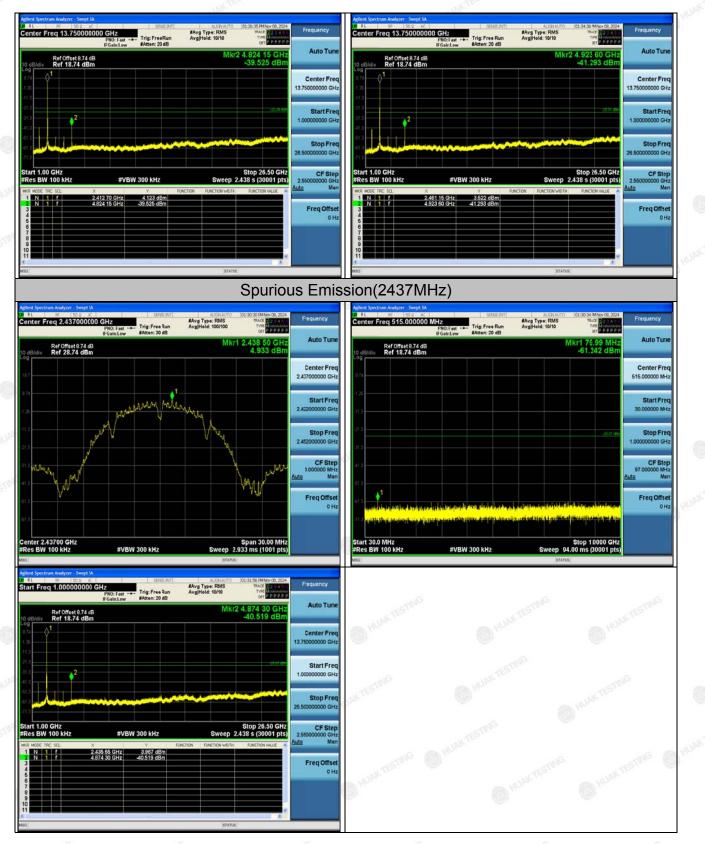


## Page 39 of 75

#### Report No.: HK2409275700-E



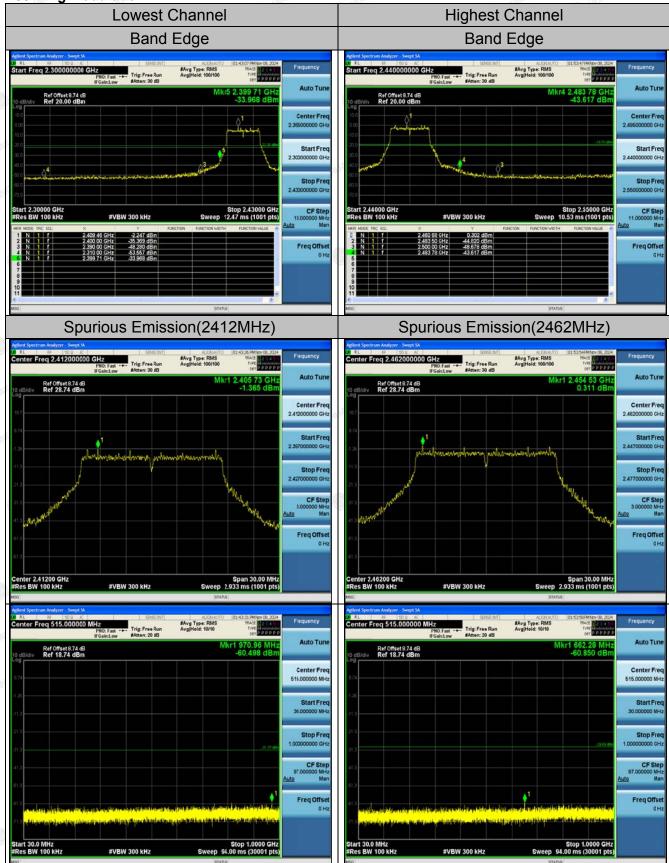
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FIF

#### 802.11g Modulation



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#### Report No.: HK2409275700-E



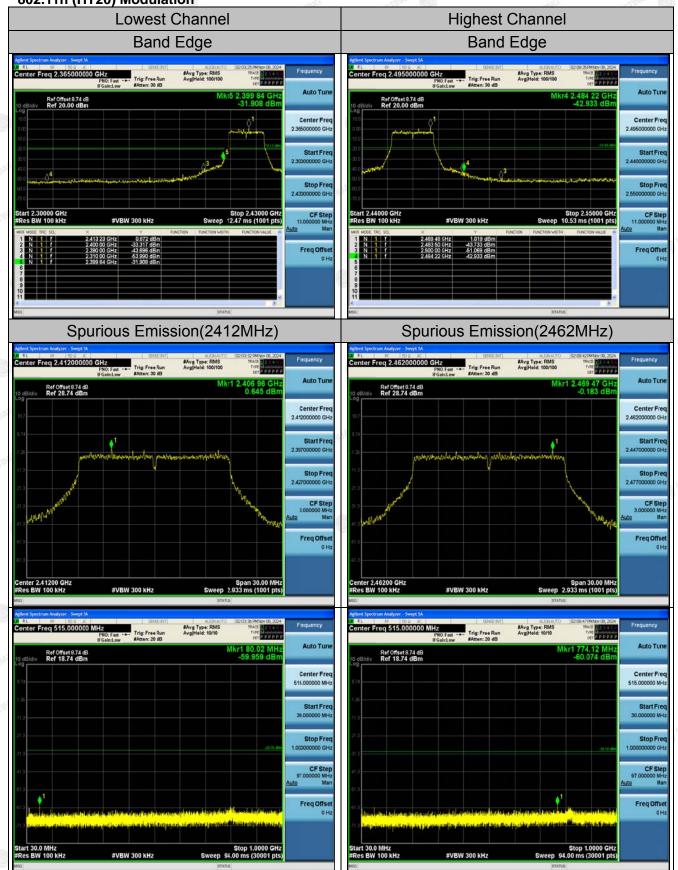
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#### 802.11n (HT20) Modulation



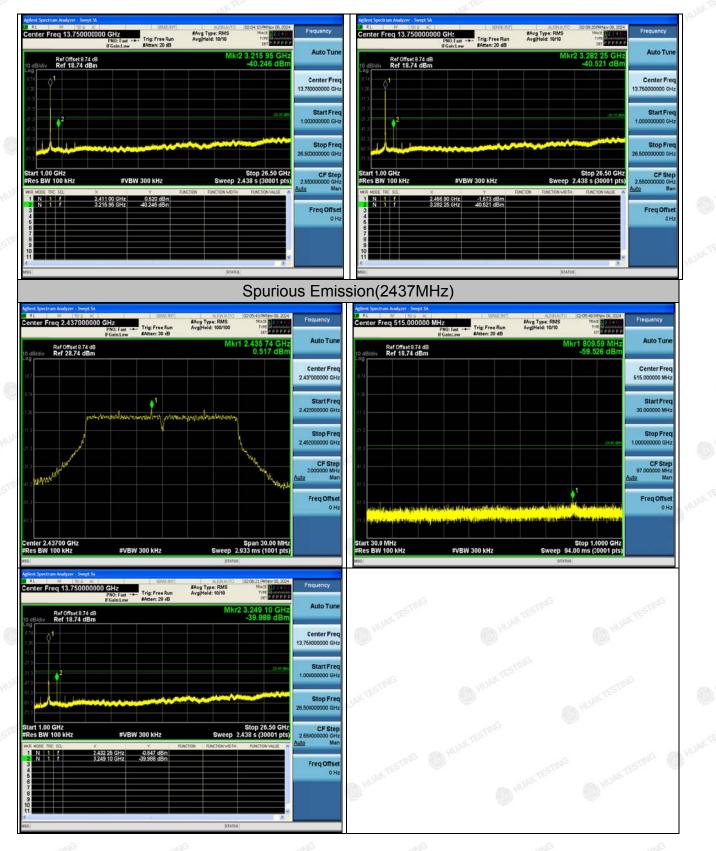
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#### Report No.: HK2409275700-E



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AFICATION

#### 802.11n (HT40) Modulation



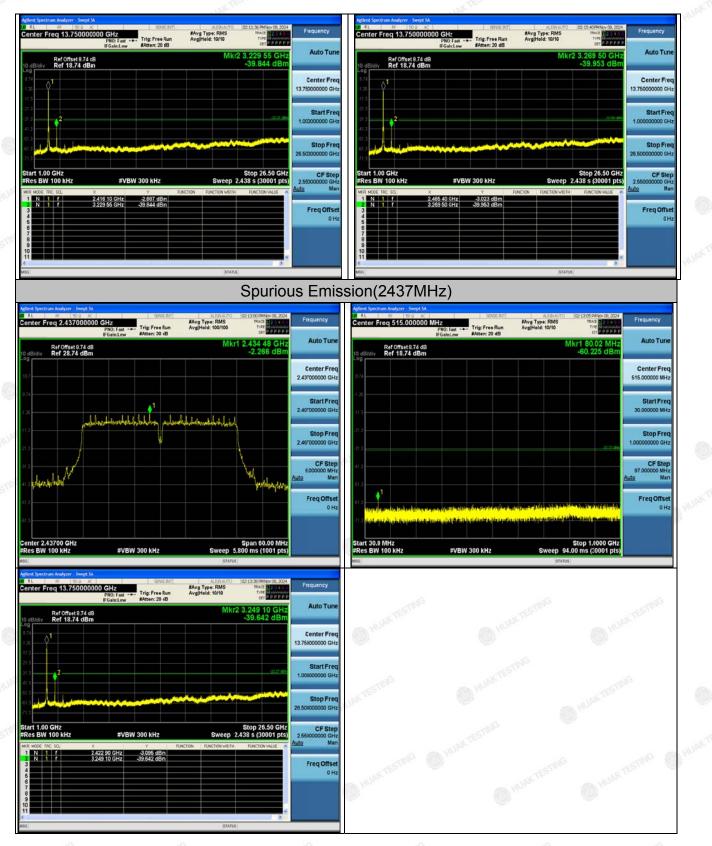
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## 4.7. Radiated Spurious Emission Measurement

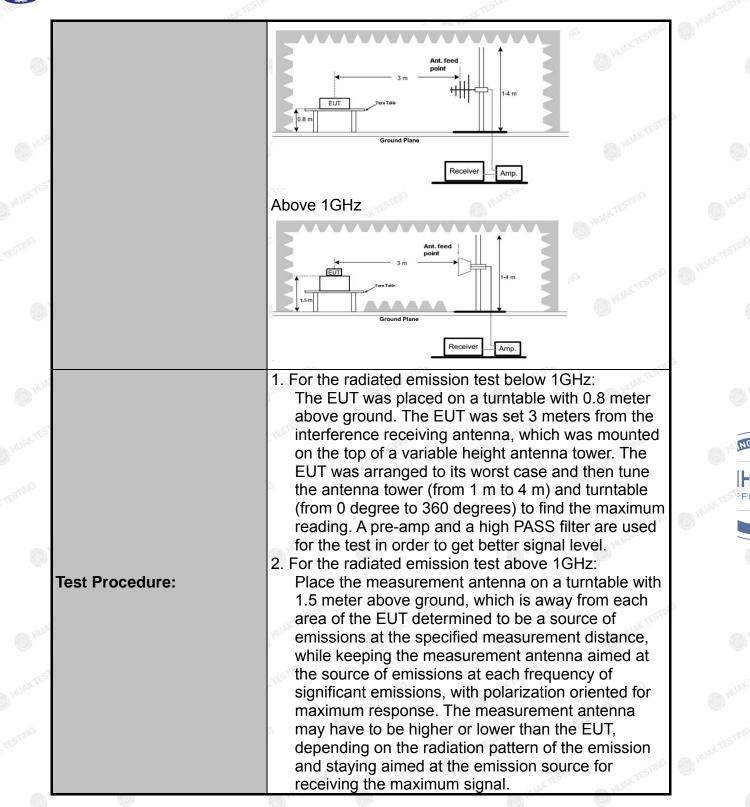
## **Test Specification**

Test Requirement:	FCC Part15	C Section	15.209				
Test Method:	ANSI C63.10	): 2013	(	HUAN		O HUAN	
Frequency Range:	9 kHz to 25 (	GHz		TING			
Measurement Distance:	3 m	TESTING	(A) HU	AK TE		TESTING	
Antenna Polarization:	Horizontal &	Vertical	0		0	HUAR	
Operation mode:	Transmitting	mode wit	h modulati	ion			
	Frequency	Detector	RBW	VBW	STING	Remark	
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quas	i-peak Value	
Receiver Setup:	150kHz- 30MHz	Quasi-peak	k 9kHz	30kHz	Quasi-peak Val		
·····	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quas	i-peak Value	
	TING	Peak	1MHz	3MHz		eak Value	
	Above 1GHz	Peak	1MHz	10Hz	-	erage Value	
	Frequen	ісу		Field Strength (microvolts/meter)		Measurement Distance (meters)	
	0.009-0.4	490	2400/F(ł	(Hz)	300		
	0.490-1.7	705	24000/F(	KHz)		30	
	1.705-3	30	30		0	30	
	30-88		100	Var		3	
	88-216	6	150			3	
Limit:	216-960		200	1	STIME	3	
	Above 960 500 3					3	
	Frequency		d Strength ovolts/meter)	Measure Distan (meter	се	Detector	
	Above 1GHz	z C LUNK	500 5000	3		Average Peak	
Test setup:	For radiated	emissions 3 m Turs Take Ground Pla	s below 30	ANG		JAN TESTING	
	30MHz to 10	GHz	Rec	ceiver	<b>1</b> 6		

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	105
•	The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference
D MAR	ground plane. 3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
ascreet	4. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission
0	<ul> <li>measurement will be repeated using the quasi-peak detector and reported.</li> <li>5. Use the following spectrum analyzer settings: <ul> <li>(1) Span shall wide enough to fully capture the</li> </ul> </li> </ul>
ALM.	emission being measured; (2) Set RBW=120 kHz for f < 1 GHz; VBW ≥RBW; Sweep = auto; Detector function = peak; Trace = max hold;
<b>D</b> ,	(3) Set RBW = 1 MHz, VBW= 3MHz for f > 1 GHz for peak measurement.
and a second	6.For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent.VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the
lla.	minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Test results:	PASS

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## Test Instruments

	Radiated Emission Test Site (966)								
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due					
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 19, 2025					
Spectrum analyzer	R&S	FSV3044	HKE-126	Feb. 19, 2025					
Preamplifier	EMCI	EMC051845 S	HKE-006	Feb. 19, 2025					
Preamplifier	Schwarzbeck	BBV 9743	HKE-016	Feb. 19, 2025					
Preamplifier	A.H. Systems	SAS-574	HKE-182	Feb. 19, 2025					
6d Attenuator	Pasternack	6db	HKE-184	Feb. 19, 2025					
EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	Feb. 19, 2025					
Broadband Antenna	Schwarzbeck	VULB9168	HKE-167	Feb. 20, 2026					
Loop Antenna	COM-POWER	AL-130R	HKE-014	Feb. 20, 2026					
Horn Antenna	Schewarzbeck	9120D	HKE-013	Feb. 20, 2026					
EMI Test Software	Tonscend	JS32-RE 5.0.0	HKE-082	ARTESTING / HUAK TESTING					
RSE Test Software	Tonscend	JS36-RSE 5. 0.0	HKE-184	I					

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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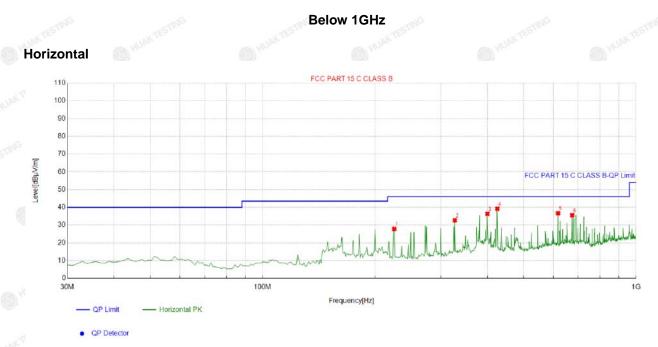
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FICATION

## **Test Data**

# All the test modes completed for test. only the worst result of (802.11b at 2412MHz) was reported as below:



	Suspe	cted List								
		Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	
	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	1	225.16516	-13.91	41.76	27.85	46.00	18.15	100	111	Horizontal
8	2	327.11711	-10.96	43.65	32.69	46.00	13.31	100	186	Horizontal
	3	399.93994	-9.84	46.18	36.34	46.00	9.66	100	247	Horizontal
	4	425.18518	-8.84	48.07	39.23	46.00	6.77	100	228	Horizontal
	5	618.40840	-5.54	42.26	36.72	46.00	9.28	100	158	Horizontal
ŝ	6	674.72472	-4.70	40.27	35.57	46.00	10.43	100	170	Horizontal

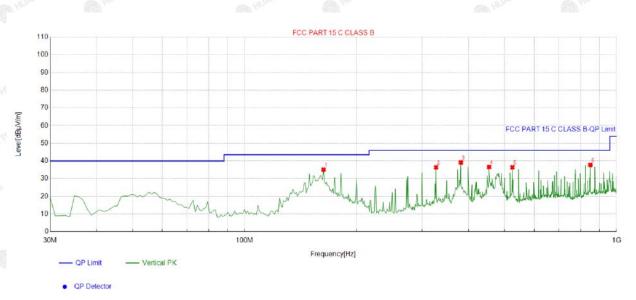
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

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#### Vertical



#### Suspected List

		Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	
Ě	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
	1	163.02302	-17.59	52.72	35.13	43.50	8.37	100	39	Vertical
	2	327.11711	-10.96	47.32	36.36	46.00	9.64	100	22	Vertical
G	3	381.49149	-9.22	48.38	39.16	46.00	6.84	100	0	Vertical
	4	454.31431	-8.83	45.44	36.61	46.00	9.39	100	81	Vertical
	5	525.19519	-6.94	43.33	36.39	46.00	9.61	100	156	Vertical
	6	850.47047	-1.46	39. <mark>1</mark> 6	37.70	46.00	8.30	100	56	Vertical

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

## Harmonics and Spurious Emissions

#### Frequency Range (9kHz-30MHz)

Frequency (MHz)		Level@3m (dBµ\	//m) L	Limit@3m (dBµV/m)		
The HUAK TE-	9	IN HUNK TEN		- HUAN	The	
	alG	<b>•</b>				
	NAK TESIN		NK TEST			
and - strug	HO	mig	NG OFF	TIDE	STING	

Note: 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor.

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement.

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## Above 1GHz

## **Radiated Emission Test**

## LOW CH1 (802.11b Mode)/2412

Horizontal:		HUM	HUM	0	HUM	
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	56.41	-3.64	52.77	74	-21.23	peak
4824	40.11	-3.64	36.47	54	-17.53	AVG
7236	54.7	-0.95	53.75	74	-20.25	peak
7236	39.51	-0.95	38.56	54	-15.44	AVG

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Vertical:	TESTING	TESTIN	G	STING	TESTING	
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
္တ (MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	56.74	-3.64	53.1	74	-20.9	peak
4824	41.09	-3.64	37.45	54	-16.55	AVG
7236	54.86	-0.95	53.91	74	-20.09	peak
7236	39.41	-0.95	38.46	54	-15.54	AVG

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#### MID CH6 (802.11b Mode)/2437

	Ŵ	~		w.	
Reading Result	Factor	Emission Level	Limits	Margin	Detector
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
54.31	-3.51	50.8	74	-23.2	peak
41	-3.51	37.49	54	-16.51	AVG
55.49	-0.82	54.67	74	-19.33	peak
38.07	-0.82	37.25	54	-16.75	AVG
	(dBµV) 54.31 41 55.49	(dBµV)     (dB)       54.31     -3.51       41     -3.51       55.49     -0.82	(dBµV)         (dB)         (dBµV/m)           54.31         -3.51         50.8           41         -3.51         37.49           55.49         -0.82         54.67	(dBµV)         (dB)         (dBµV/m)         (dBµV/m)           54.31         -3.51         50.8         74           41         -3.51         37.49         54           55.49         -0.82         54.67         74	(dBµV)         (dB)         (dBµV/m)         (dBµV/m)         (dBµV/m)         (dB)           54.31         -3.51         50.8         74         -23.2           41         -3.51         37.49         54         -16.51           55.49         -0.82         54.67         74         -19.33

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit

ing Result	Factor			and UU.	
	aciui	Emission Level	Limits	Margin	Detector
dBμV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
56.46	-3.51	52.95	<sup>74</sup>	-21.05	peak
41.78	-3.51	38.27	54	-15.73	AVG
54.22	-0.82	53.4	74	-20.6	peak
38.78	-0.82	37.96	54	-16.04	AVG
	56.46       41.78       54.22       38.78	56.46     -3.51       41.78     -3.51       54.22     -0.82       38.78     -0.82	56.46     -3.51     52.95       41.78     -3.51     38.27       54.22     -0.82     53.4       38.78     -0.82     37.96	56.46     -3.51     52.95     74       41.78     -3.51     38.27     54       54.22     -0.82     53.4     74       38.78     -0.82     37.96     54	56.46       -3.51       52.95       74       -21.05         41.78       -3.51       38.27       54       -15.73         54.22       -0.82       53.4       74       -20.6

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#### HIGH CH11 (802.11b Mode)/2462

	w.	~		I A A A A A A A A A A A A A A A A A A A	
Reading Result	Factor	Emission Level	Limits	Margin	Detector
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
55.68	-3.43	52.25	74	-21.75	peak
40.56	-3.43	37.13	54	-16.87	AVG
54.09	-0.75	53.34	74	-20.66	peak
39.43	-0.75	38.68	54	-15.32	AVG
	(dBµV) 55.68 40.56 54.09	(dBµV)     (dB)       55.68     -3.43       40.56     -3.43       54.09     -0.75	(dBµV)         (dB)         (dBµV/m)           55.68         -3.43         52.25           40.56         -3.43         37.13           54.09         -0.75         53.34	(dBµV)         (dB)         (dBµV/m)         (dBµV/m)           55.68         -3.43         52.25         74           40.56         -3.43         37.13         54           54.09         -0.75         53.34         74	(dBµV)         (dB)         (dBµV/m)         (dBµV/m)         (dBµV/m)         (dB)           55.68         -3.43         52.25         74         -21.75           40.56         -3.43         37.13         54         -16.87           54.09         -0.75         53.34         74         -20.66

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit

Vertical:	LAK TESTIN		resting way test	n. O	W TESTING	LIAK TES
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4924	54.68	-3.43	51.25	M <sup>6</sup> 74	-22.75	peak
4924	42.27	-3.43	38.84	54	-15.16	AVG
7386	55.51	-0.75	54.76	74	-19.24	peak
7386	38.96	-0.75	38.21	54	-15.79	AVG

#### Remark:

(1) Measuring frequencies from 1 GHz to the 25 GHz.

(2) "F" denotes fundamental frequency; "H" denotes spurious frequency; "E" denotes band edge frequency.

(3) \* denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.

(4) The emissions are attenuated more than 20dB below the permissible limits are not recorded in the report.

(5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.

(6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54dBuV/m(AV Limit), the Average Detected not need to completed.

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## LOW CH1 (802.11g Mode)/2412

Horizontal:	I and the second s	9	<b>W</b>			w.
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	<sup>∞</sup> (dBµV/m)	(dB)	Туре
4824	54.93	-3.64	51.29	74 🔘	-22.71	peak
4824	41.10	-3.64	37.46	54	-16.54	AVG
7236	53.86	-0.95	52.91	74	-21.09	peak
7236	39.98	-0.95	39.03	54	-14.97	AVG

Vertical:						
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	56.31	-3.64	52.67	74	-21.33	peak
4824	40.05	-3.64	36.41	54	-17.59	AVG
7236	56.30	-0.95	55.35	74	-18.65	peak
7236	38.11	-0.95	37.16	54	-16.84	AVG

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FICATION

## MID CH6 (802.11g Mode)/2437

Reading Result	Factor	Emission Level	Limits	Margin	Detector
(dBµV)	(dB)	(dBµV/m)	<sup>∭0</sup> (dBµV/m)	(dB)	Туре
56.77	-3.51	53.26	74	-20.74	peak
40.20	-3.51	36.69	54	-17.31	AVG
56.08	-0.82	55.26	74	-18.74	peak
37.21	-0.82	36.39	54	-17.61	AVG
	(dBµV) 56.77 40.20 56.08 37.21	(dBµV)     (dB)       56.77     -3.51       40.20     -3.51       56.08     -0.82       37.21     -0.82	(dBµV)         (dB)         (dBµV/m)           56.77         -3.51         53.26           40.20         -3.51         36.69           56.08         -0.82         55.26	(dBµV)         (dB)         (dBµV/m)         (dBµV/m)           56.77         -3.51         53.26         74           40.20         -3.51         36.69         54           56.08         -0.82         55.26         74           37.21         -0.82         36.39         54	(dBµV)         (dB)         (dBµV/m)         (dBµV/m)         (dBµV/m)           56.77         -3.51         53.26         74         -20.74           40.20         -3.51         36.69         54         -17.31           56.08         -0.82         55.26         74         -18.74           37.21         -0.82         36.39         54         -17.61

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit

Vertical:	WAK TESTING	ter.	TESTING		NK TESTING	MAKTEST
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	56.69	-3.51	53.18	<sup>muG</sup> 74	-20.82	peak
4874	39.93	-3.51	36.42	54	-17.58	AVG
" <sup>©</sup> 7311	54.98	-0.82	54.16	74	-19.84	peak
7311	39.05	-0.82	38.23	54 M	-15.77	AVG

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#### HIGH CH11 (802.11g Mode)/2462

Horizontal:	2	9	Ŵ		w.	9
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	dBµV/m)	(dBµV/m)	(dB)	Туре
4924	55.83	-3.43	52.4	74	-21.6	peak
4924	40.71	-3.43	37.28	54	-16.72	AVG
7386	54.75	-0.75	54	74	-20	peak
7386	38.8	-0.75	38.05	54	-15.95	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit

Vertical:	LIAN TESTING		TESTING JAK TESTI		W TESTING	AK TESTIN
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4924	56.03	-3.43	52.6	m <sup>iG</sup> 74	-21.4	peak
4924	40.14	-3.43	36.71	54	-17.29	AVG
7386	55.9	-0.75	55.15	74	-18.85	peak
7386	40	-0.75	39.25	54	-14.75	AVG

#### Remark:

(1) Measuring frequencies from 1 GHz to the 25 GHz.

(2) "F" denotes fundamental frequency; "H" denotes spurious frequency; "E" denotes band edge frequency.

(3) \* denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.

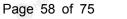
(4) The emissions are attenuated more than 20dB below the permissible limits are not recorded in the report.

(5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.

(6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54dBuV/m(AV Limit), the Average Detected not need to completed.

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## LOW CH1 (802.11n/H20 Mode)/2412

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Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detecto
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	56.89	-3.64	53.25	74	-20.75	peak
4824	39.77	-3.64	36.13	54	-17.87	AVG
7236	55.98	-0.95	55.03	74	-18.97	peak
7236	38.33	-0.95	37.38	54	-16.62	AVG

Vertical:	TESTING O		ESTING STESTING	0	TESTING	K TESTING
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	56.39	-3.64	52.75	۶ 74	-21.25	peak
4824	39.58	-3.64	35.94	54	-18.06	AVG
v 7236	54.42	-0.95	53.47	74	-20.53	peak
7236	38.07	-0.95	37.12	54 MUNA	-16.88	AVG

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MID CH6 (802.11n/H20 Mode)/2437

Horizontal:	Ð		w.			Sec. 1
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	55.45	-3.51	51.94	74.00	-22.06	peak
4874 <sup>مرو</sup>	41.77	-3.51	38.26	54.00	-15.74	AVG
7311	54.51	-0.82	53.69	74.00	-20.31	peak
7311	39.78	-0.82	38.96	54.00	-15.04	AVG
Remark: Factor	r = Antenna Factor	+ Cable Loss –	Pre-amplifier; Lev	vel = Reading +	Factor; Margin	n = Level-

Vertical:						
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	56.53	-3.51	53.02	74.00	-20.98	peak
4874	39.93	-3.51	36.42	54.00	-17.58	AVG
7311	55.70	-0.82	54.88	74.00	-19.12	peak
7311	38.72	-0.82	37.90	54.00	-16.10	AVG
(03)			37.90 - Pre-amplifier; Lev			gir

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#### HIGH CH11 (802.11n/H20 Mode)/2462

Horizontal:		w.			w.	
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Delector Type
4924	54.66	-3.43	51.23	74	-22.77	peak
4924	40.28	-3.43	36.85	54	-17.15	AVG
7386	54.44	-0.75	53.69	74	-20.31	peak
7386	37.26	-0.75	36.51	54	-17.49	AVG
		1010		1	NIC .	•

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:	WIAK TESTING	. 15	K TESTING	Tur.	NK TESTIN	GULAKTESTING
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Tyre
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	<ul> <li>Detector Type</li> </ul>
4924	54.53	-3.43	51.1	sm <sup>0</sup> 74	-22.9	peak
4924	40.25	-3.43	36.82	54	-17.18	AVG
7386	55.33	-0.75	54.58	74	-19.42	peak
7386	38.91	-0.75	38.16	54	-15.84	AVG

Remark:

(1) Measuring frequencies from 1 GHz to the 25 GHz.

(2) "F" denotes fundamental frequency; "H" denotes spurious frequency; "E" denotes band edge frequency.

(3) \* denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.

(4) The emissions are attenuated more than 20dB below the permissible limits are not recorded in the report.

(5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.

(6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54dBuV/m(AV Limit), the Average Detected not need to completed.

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#### LOW CH3 (802.11n/H40 Mode)/2422

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Turne
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	<ul> <li>Detector Type</li> </ul>
4844	55.65	-3.63	52.02	74 🌔	-21.98	peak
« <sup>6</sup> 4844	39.94	-3.63	36.31	54	-17.69	AVG
7266	54.95	-0.94	54.01	74	-19.99	peak
7266	38.97	-0.94	38.03	54	-15.97	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	- Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4844	54.77	-3.63	51.14	74	-22.86	peak
4844	42.21	-3.63	38.58	54	-15.42	AVG
7266	54.74	-0.94	53.8	74	-20.2	peak
7266	38.39	-0.94	37.45	54	-16.55	AVG

Level-Limit.

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#### MID CH6 (802.11n/H40 Mode)/2437

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Trac
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4874	55.22	-3.51	51.71	74	-22.29	peak
4874	42.15	-3.51	38.64	54	-15.36	AVG
7311	55.29	-0.82	54.47	74	-19.53	peak
7311	37.53	-0.82	36.71	54	-17.29	AVG

Vertical:

Frequency	Meter Reading	Factor	Emission Level	🔊 Limits	Margin	Datastas
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	<ul> <li>Detector Type</li> </ul>
4874	56.88	-3.51	53.37	74	-20.63	peak
4874	40.07	-3.51	36.56	54	-17.44	AVG
7311	56.43	-0.82	55.61	74	-18.39	peak
7311	38.87	-0.82	38.05	54	-15.95	AVG

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#### HIGH CH9 (802.11n/H40 Mode)/2452

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Detector Type
4904	56.89	-3.43	53.46	74	-20.54	peak
4904	39.50	-3.43	36.07	54	-17.93	AVG
7356	56.10	-0.75	55.35	74	-18.65	peak
7356	40.02	-0.75	39.27	54	-14.73	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = .evel-Limit.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Turne
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4904	54.85	-3.43	51.42	74	-22.58	peak
4904	41.6	-3.43	38.17	54	-15.83	AVG
7356	54.94	-0.75	54.19	74	-19.81	peak
7356	37.56	-0.75	36.81	54	-17.19	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

#### Remark:

(1) Measuring frequencies from 1 GHz to the 25 GHz.

(2) "F" denotes fundamental frequency; "H" denotes spurious frequency; "E" denotes band edge frequency.
(3) \* denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.

(4) The emissions are attenuated more than 20dB below the permissible limits are not recorded in the report.

(5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.

(6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.

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#### Test Result of Radiated Spurious at Band edges

## **Operation Mode:**

## 802.11b Mode TX CH Low (2412MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Turne
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2310	56.11	-5.81	50.3	74	-23.7	peak
2310	-STING / OHUAN	-5.81	NG I STIN	54	1	AVG
2390	54.59	-5.84	48.75	74	-25.25	peak
2390	1	-5.84	1	54	1	AVG
2400	54.71	-5.84	48.87	م	-25.13	peak
2400	WAX TEL	-5.84	- WAKTER	54	UAKTED	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.

/ertical:	ESTING	HUAK	K TESTING	HUAN HUAN		AK TESTING
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Ture
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2310	55.51	-5.81	49.7	74	-24.3	peak
2310	/	-5.81	<b></b> ,	54	1	AVG
2390	55.76	-5.84	49.92	74	-24.08	peak
2390	JAK TESTING	-5.84	I NAM TEST	54	JAK TESTING	AVG
2400	57.21	-5.84	51.37	74	-22.63	peak
2400	/	-5.84	/	54	ESTING	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.

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## Operation Mode: TX CH High (2462MHz)

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	01120	- nucan	

Frequency	Meter Reading	Factor	Emission Level	🖗 Limits	Margin	Detector Turne
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	<ul> <li>Detector Type</li> </ul>
2483.50	54.27	-5.65	48.62	74	-25.38	peak
2483.50	I I	-5.65	AKTESTING	54	1	AVG
2500.00	53.28	-5.65	47.63	74	-26.37	peak
2500.00		-5.65	/	54	1	AVG

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Tree
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	54.97	-5.65	49.32	74	-24.68	peak
2483.50	ISTING /	-5.65	TESTING	54 101	1	AVG
2500.00	53.97	-5.65	48.32	74	-25.68	peak
2500.00	1	-5.65	/	54	1	AVG

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.

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## Operation Mode: 802.11g Mode TX CH Low (2412MHz)

Frequency	Meter Reading	Factor	Emission Level	🤌 Limits	Margin	Detector Turne
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3 2310	56.05	-5.81	50.24	74	-23.76	peak
2310	Former I	-5.81	NY TESTING	54	1	AVG
2390	54.74	-5.84	48.9	74	-25.1	peak
2390	/ HUAN	-5.84	1	54	1	AVG
2400	55.65	-5.84	49.81	74	-24.19	peak
2400	/	-5.84		54		AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.

ertical:	HUAKIL	HUAK	HUAK	<i>(</i> <b>1</b> )	HUAK	HUAK
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Turc
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2310	56.87	-5.81	51.06	74	-22.94	peak
2310	/ HUAN	-5.81	1	54	/	AVG
2390	54.31	-5.84	48.47	74	-25.53	peak
2390	1	-5.84	· /	54	1	AVG
2400	54.88	-5.84	49.04	74	-24.96	peak
2400	MAK TESTING	-5.84	I MAK TEST	54	LAK TESTIN	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.

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## Operation Mode: TX CH High (2462MHz)

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	56.56	-5.65	50.91	74	-23.09	peak
2483.50	1	-5.65	1	54	resmus /	AVG
2500.00	54.71	-5.65	49.06	74	-24.94	peak
2500.00	/	-5.65	/	54	1	AVG

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	<sup>∞©</sup> (dBµV/m)	(dB)	Detector Type
2483.50	54.97	-5.65	49.32	74 🔘	-24.68	peak
<sup>©</sup> 2483.50	1	-5.65	/	54	TESTING /	AVG
2500.00	54.41	-5.65	48.76	74	-25.24	peak
2500.00	/	-5.65	1	54		AVG

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.

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Operation Mode: 802.11n/H20 Mode TX CH Low (2412MHz)

lorizontal:					Ĩ	
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Ture
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2310	54.41	-5.81	48.6	74	-25.4	peak
2310	1	-5.81	1	54	ESTINO /	AVG
2390	54.36	-5.84	48.52	74	-25.48	peak
2390	1	-5.84	· /	54	/	AVG
2400	52.72	-5.84	46.88	74	-27.12	peak
2400	/	-5.84	and the second	54	HUAKTE	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.

/ertical:	TESTING	TESTING	TEST	NG.	TESTING	TESTING
Frequency	Meter Reading	Factor	Emission Level	Limits 🌑	Margin	Detector Type
o (MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2310	56.83	-5.81	51.02	74	-22.98	peak
2310	1	-5.81	I III	54	1 🔘	AVG
2390	54.09	-5.84	48.25	74	-25.75	peak
2390	UNITESTIC /	-5.84	HUAK TESTIN	54	MAK TETTING	AVG
2400	54.46	-5.84	48.62	74	-25.38	peak
2400	/	-5.84	/	54	1	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.

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## Operation Mode: TX CH High (2462MHz)

Reading 3µV)	Factor	Emission Level	Limits	Margin	
BuV)	200			Ű	Detector Type
-μv)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
1.44	-5.65	48.79	74	-25.21	peak
/	-5.65	1	54	KTESTING /	AVG
4.59	-5.65	48.94	74	-25.06	peak
1	-5.65	1	54	G	AVG
	1	/ -5.65 4.59 -5.65	/ -5.65 / 4.59 -5.65 48.94	/     -5.65     /     54       4.59     -5.65     48.94     74	/     -5.65     /     54     /       4.59     -5.65     48.94     74     -25.06

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:						
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	55.53	-5.65	49.88	74	-24.12	peak
2483.50	1	-5.65	1	54	K TESTING	AVG
2500.00	55.94	-5.65	50.29	74	-23.71	peak
2500.00	/	-5.65	· /	54	NG /	AVG

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## Operation Mode: 802.11n/H40 Mode TX CH Low (2422MHz)

## Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2310.00	54.64	-5.81	48.83	74	-25.17	peak
2310.00	1	-5.81	HUAN TEST	54	1	AVG
2390.00	54.40	-5.84	48.56	74	-25.44	peak
2390.00	ALL MUA	-5.84	1	54	1	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2310.00	54.30	-5.81	48.49	74	-25.51	peak
2310.00	/	-5.81	· /	54	1	AVG
2390.00	54.43	-5.84	48.59	74	-25.41	peak
2390.00	JAK IL	-5.84	AUANTE	54	HUAKTES	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

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## Operation Mode: TX CH High (2452MHz)

#### Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2483.50	55.09	-5.65	49.44	74	-24.56	peak
2483.50	/	-5.65	· · · · · · · · · · · · · · · · · · ·	54	/ 🤍	AVG
2500.00	54.74	-5.65	49.09	74	-24.91	peak
2500.00	JAK IL	-5.65	AUANTLE .	54	HUAK TES	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = \_evel-Limit.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	1000
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	_ Detector Typ
2483.50	55.01	-5.65	49.36	74	-24.64	peak
2483.50	STILL O HUA	-5.65	MG / STA	54	I	AVG
2500.00	52.30	-5.65	46.65	74	-27.35	peak
2500.00	/	-5.65	/	54	1	AVG

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.

Remark:

1. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.

In restricted bands of operation, the spurious emissions below the permissible value more than 20dB.
 The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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## 4.8. Antenna Requirement

#### **Standard Applicable**

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247, if transmitting antennas of directional gain greater than6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

#### Refer to statement below for compliance.

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

#### Antenna Connected Construction

The antenna used in this product is a FPC Antenna. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 3dBi.

#### <u>Antenna</u>



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## 5. Photograph of Test

## **Radiated Emission**



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## Conducted Emission



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## 6. Photos of the EUT

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos.

----End of test report--

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