

RF TEST REPORT

FCC ID: 2BCFYHT-6766BE

Test Report No.: RF250516013-02-002

Product(s) Name: Wireless Home Gateway

Model(s): HT-6766BE, HT-6766BDM

Trade Mark: HEIGHTS

Applicant: Heights Telecom T LTD

Address: Ha-Sakhlav 6, Irus, 7680900, Israel

Receipt Date: 2025.06.24

Test Date: 2025.06.24~2025.07.29

Issued Date: 2025.09.12

Standards: 47 CFR FCC Part 15, Subpart E(Section 15.407);

ANSI C63.10:2013

Testing Laboratory: Shenzhen Haiyun Standard Technical Co., Ltd.

Prepared By:	Checked By:	Approved By:	
Albert Fan	Black Ding	Tim Zhang	
Albert Fan	Black Ding	Tim Zhang	

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History of this test report

Amendment Report Issue Date: 2025.09.12

- No additional attachment
- Additional attachments were issued following record

Attachment No.	Issue Date	Description
RF250516013-01-002	2025.09.01	Original report
RF250516013-02-002	2025.09.12	Change model, the structure remains unchanged, the hardware is removed from the 6G part (chip, shield, antenna, etc.), and the two heat sinks on the back are removed and power supply based on the original report. Therefore, The AC power Line Conducted Emission and Radiated Emission were tested with reference to the original report, while the rest remained unchanged.



1. General Information

1.1 Applicant

Heights Telecom T LTD

Ha-Sakhlav 6, Irus, 7680900, Israel

1.2 Manufacturer

Heights Telecom Switzerland SA

Boulevard Georges-Favon, 43 1204–Geneva Switzerland

1.3 Basic Description of Equipment Under Test

Test sample no.	POC250516013-S002, POC250516013-S003	
Product(s) Name	Wireless Home Gateway	
Test Model	HT-6766BE, HT-6766BDM	
Model difference	<p>Model HT-6766BEM is complete form, Shipped with 3A adapter.</p> <p>Model HT-6766BDM makes change based on Model HT-6766BEM, the structure remains unchanged, the hardware is removed from the 6G part (chip, shield, antenna, etc.), and the two heat sinks on the back are removed, Shipped with 2.5A adapter.</p> <p>Model HT-6766BE makes change based on Model HT-6766BEM, the structure remains unchanged, the hardware is removed from the 6G part (chip, shield, antenna, etc.), and the two heat sinks on the back are removed. Change 2 PHYs from 10G to 2.5G. Shipped with 2.5A adapter</p>	
Trade Mark	HEIGHTS	
Power Supply	DC 12V from adapter	
Adapter information	<p>Model: SOY-1200250US-459</p> <p>Input: 100-240V~, 50/60Hz, 0.9A Max</p> <p>Output: 12V---2.5A</p>	
Operate temperature	0°C-40°C	
EUT Stage	<input type="radio"/> Product Unit	<input checked="" type="radio"/> Final-Sample
Operating Band & Max Conducted Output Power	5150MHz ~5250MHz	802.11ax40: 29.72dBm(0.938W)
	5250MHz ~5350MHz	802.11ax40: 23.96dBm(0.249W)
	5470MHz ~5725MHz	802.11n40: 23.97dBm(0.249W)
	5725MHz ~5850MHz	802.11ac20: 29.43dBm(0.877W)
Product Type	IEEE 802.11a/n/ac/ax/be: WLAN (MIMO)	
Nominal Bandwidth	20MHz / 40MHz / 80MHz / 160MHz	
Modulation	<p>IEEE 802.11a/n/ac: OFDM</p> <p>IEEE 802.11ax/be: OFDMA</p>	
Antenna gain	Ant1: 4.42 dBi, Ant2: 4.48 dBi, Ant3: 4.43 dBi, Ant4: 4.19 dBi	
Directional gain	<p>Uncorrelated: 1.05dBi (from the antenna report)</p> <p>Correlated: 6.62 dBi (from the antenna report)</p>	
Antenna type	PCB antenna	
Data Rate (Mbps)	<p>IEEE 802.11a mode : 6/9/12/18/24/36/48/54</p> <p>IEEE 802.11n mode : up to 600</p> <p>IEEE 802.11ac mode : up to 3466.7</p> <p>IEEE 802.11ax mode : up to 4803.9</p> <p>IEEE 802.11be mode : up to 5764.4</p>	

Channel Information			
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5150-5250	802.11a /n /ac /ax /be (20MHz)	5180-5240	36-48
5250-5350		5260-5320	52-64
5470-5725		5500-5700	100-140
5725-5850		5745-5825	149-165
5150-5250	802.11n /ac /ax /be (40MHz)	5190-5230	38-46
5250-5350		5270-5310	54-62
5470-5725		5510-5670	102-134
5725-5850		5755-5795	151-159
5150-5250	802.11ac /ax /be (80MHz)	5210	42
5250-5350		5290	58
5470-5725		5530-5610	106-122
5725-5850		5775	155
5150-5350	802.11 ac /ax /be (160MHz)	5250	50
5470-5725		5570	114

Note: For 802.11ax, 802.11be mode only support full RU mode.

1.4 Transmit Operating Mode

Transmit Operating Mode				Transmit Multiple Antennas			
<input type="radio"/> Operating mode 1 (single antenna)				<input type="radio"/> 1TX			
<input type="radio"/> Operating mode 2 (multiple antenna, no beam forming)				<input type="radio"/> 2TX	<input type="radio"/> 3TX	<input type="radio"/> 4TX	
<input checked="" type="radio"/> Operating mode 3 (multiple antenna, with beam forming)				<input checked="" type="radio"/> 2TX	<input type="radio"/> 3TX	<input checked="" type="radio"/> 4TX	
<input checked="" type="radio"/> 802.11a	Operating mode	<input type="radio"/> 1TX	<input type="radio"/> 2TX	<input type="radio"/> 3TX	<input checked="" type="radio"/> 4TX		
<input checked="" type="radio"/> 802.11n(20MHz)	Operating mode	<input type="radio"/> 1TX	<input type="radio"/> 2TX	<input type="radio"/> 3TX	<input checked="" type="radio"/> 4TX		
<input checked="" type="radio"/> 802.11n(40MHz)	Operating mode	<input type="radio"/> 1TX	<input type="radio"/> 2TX	<input type="radio"/> 3TX	<input checked="" type="radio"/> 4TX		
<input checked="" type="radio"/> 802.11ac(20MHz)	Operating mode	<input type="radio"/> 1TX	<input type="radio"/> 2TX	<input type="radio"/> 3TX	<input checked="" type="radio"/> 4TX		
<input checked="" type="radio"/> 802.11ac(40MHz)	Operating mode	<input type="radio"/> 1TX	<input type="radio"/> 2TX	<input type="radio"/> 3TX	<input checked="" type="radio"/> 4TX		
<input checked="" type="radio"/> 802.11ac(80MHz)	Operating mode	<input type="radio"/> 1TX	<input type="radio"/> 2TX	<input type="radio"/> 3TX	<input checked="" type="radio"/> 4TX		
<input checked="" type="radio"/> 802.11ac(160MHz)	Operating mode	<input type="radio"/> 1TX	<input type="radio"/> 2TX	<input type="radio"/> 3TX	<input checked="" type="radio"/> 4TX		
<input checked="" type="radio"/> 802.11ax(20MHz)	Operating mode	<input type="radio"/> 1TX	<input type="radio"/> 2TX	<input type="radio"/> 3TX	<input checked="" type="radio"/> 4TX		
<input checked="" type="radio"/> 802.11ax(40MHz)	Operating mode	<input type="radio"/> 1TX	<input type="radio"/> 2TX	<input type="radio"/> 3TX	<input checked="" type="radio"/> 4TX		
<input checked="" type="radio"/> 802.11ax(80MHz)	Operating mode	<input type="radio"/> 1TX	<input type="radio"/> 2TX	<input type="radio"/> 3TX	<input checked="" type="radio"/> 4TX		
<input checked="" type="radio"/> 802.11ax(160MHz)	Operating mode	<input type="radio"/> 1TX	<input type="radio"/> 2TX	<input type="radio"/> 3TX	<input checked="" type="radio"/> 4TX		
<input checked="" type="radio"/> 802.11be(20MHz)	Operating mode	<input type="radio"/> 1TX	<input type="radio"/> 2TX	<input type="radio"/> 3TX	<input checked="" type="radio"/> 4TX		
<input checked="" type="radio"/> 802.11be (40MHz)	Operating mode	<input type="radio"/> 1TX	<input type="radio"/> 2TX	<input type="radio"/> 3TX	<input checked="" type="radio"/> 4TX		
<input checked="" type="radio"/> 802.11be (80MHz)	Operating mode	<input type="radio"/> 1TX	<input type="radio"/> 2TX	<input type="radio"/> 3TX	<input checked="" type="radio"/> 4TX		
<input checked="" type="radio"/> 802.11be (160MHz)	Operating mode	<input type="radio"/> 1TX	<input type="radio"/> 2TX	<input type="radio"/> 3TX	<input checked="" type="radio"/> 4TX		

2. Summary of Test Results

2.1 Summary of Test Items

47 CFR FCC Part 15, Subpart E (Section 15.407)			
Test item	Standard	Results	Remarks
AC Power Conducted Emission	15.207 15.407(b)	Pass	Meet the requirement of the limit
Radiated Emission	15.205(a) 15.209(a) 15.407(b)	Pass	Meet the requirement of the limit
Antenna Requirements	15.203	Compliance	Note1
Spectrum Bandwidth	15.407(a) 15.407(e)	Pass Note2	Meet the requirement of the limit
Maximum EIRP	15.407(a)	Pass Note2	Meet the requirement of the limit
Power Spectral Density	15.407(a)	Pass Note2	Meet the requirement of the limit
Dynamic Frequency Selection (DFS)	15.407(h)	Pass Note3	Meet the requirement of the limit

Note: 1. The EUT has 4 PCB antennas arrangement which was permanently attached.
 2. For test data, please refer to the report RF250516013-01-002.
 3. For test data, please refer to the report RF250516013-01-003.

2.2 Application of Standard

47 CFR FCC Part 15, Subpart E

KDB 662911 D01 Multiple Transmitter Output v02r01

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

ANSI C63.10:2013

2.3 Test Instruments

No.	Name of Equipment	Manufacturer	Model Number	Serial Number	Inventory No.	Last Calibration	Due Calibration
Radiated Emission							
1	Test receiver	Rohde&Schwarz	ESU	100184	JLE011	2025/3/1	2026/2/28
2	Log periodic antenna	Schwarzbeck	VULB 9168	1151	JLE012	2025/4/12	2026/4/11
3	Low frequency amplifier	/	LNA 0920N	2014	JLE023	2025/3/1	2026/2/28
4	High frequency amplifier	Schwarzbeck	BBV 9718	9718-284	JLE024	2025/3/1	2026/2/28
5	Horn Antenna	SCHWARZBECK	BBHA 9120 D	02670	JLE028	2025/4/12	2026/4/11
6	Temp&Humidity Recorder	Meideshi	JR900	/	JLE021	2025/4/15	2026/4/14
7	Horn Antenna	SCHWARZBECK	BBHA 9170	9170#685	JLE029	2024/7/15	2027/7/14
8	Loop Antenna	SCHWARZBECK	FMZB1519B	00029	JLE030	2024/7/15	2027/7/14
9	Broadband preamplifier	Schwarzbeck	BBV9721	9721-019	JLE025	2025/3/1	2026/2/28
10	Test software	Farad Technology Co., Ltd	EZ-EMC Ver.TW-03A2				
Conducted Emission							
1	LISN	Rohde&Schwarz	ENV216	100075	JLE002	2025/3/1	2026/2/28
2	ISN	Schwarzbeck	CATE 5 8158	#171	JLE003	2025/2/21	2026/2/20
3	ISN	Schwarzbeck	CAT 3 8158	00187	JLE032	2025/2/21	2026/2/20
4	Test receiver	Rohde&Schwarz	ESCI	100718	JLE010	2025/3/1	2026/2/28
5	Pulse limiter	Rohde&Schwarz	ESH3-Z2	102299	JLE047	2025/3/1	2026/2/28
6	Temp&Humidity Recorder	Meideshi	JR900	/	JLE020	2025/4/15	2026/4/14
7	Test software	Farad Technology Co., Ltd	EZ-EMC Ver.TW-03A2				
RF Conducted Emissions							
1	MXA Signal Analyzer	Keysight	N9021B	MY60080169	JLE050	2025/3/1	2026/2/28
2	RF Control Unit	dsusoft	JS0806-2	21G8060449	JLE053	2025/3/1	2026/2/28
3	power supply unit	dsusoft	JS0806-4ADC	N/A	JLE055	2025/3/1	2026/2/28
4	VXG Signal Generator	Keysight	M9384B	MY61270787	JLE051	2025/6/10	2026/6/09
5	EXG Analog Signal Generator	Keysight	N5173B	MY59101282	JLE052	2025/3/1	2026/2/28
6	Wideband Radio Communication Tester	Rohde&Schwarz	CMW500	1201.0002K5 0-116064-Dt	JLE054	2025/3/1	2026/2/28
7	Test software	dsusoft	JS1120-3 Ver.3.2.22.0				

2.4 Operation Mode

Please refer to report RF250516013-01-002 details of Operation Mode.

2.5 Test Condition

Test Item	Environmental conditions	Input Power	Tested by
AC Power Conducted Emission	25°C, 53% RH	AC 120V/60Hz	Keith Huang
Radiated Emission	24°C, 51% RH	AC 120V/60Hz	Lemon He

Note: Adapter supply voltage AC 120V/60Hz.

The applicant declare the operating environment of EUT as below:

Normal conditions: 12V DC, 0~45°C

2.6 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT.

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

Uncertainty	
Parameter	Uncertainty
Occupied Channel Bandwidth	±102kHz
Power Spectral Density	±0.243dB
Conducted Spurious Emission	±0.743dB
RF power conducted	±1.328dB
Conducted emission(9kHz~30MHz) AC main	±2.68dB
Radiated emission(9kHz~30MHz)	±3.50dB
Radiated emission (30MHz~1GHz)	±4.20dB
Radiated emission (1GHz~18GHz)	±5.10dB
Radiated emission (18GHz~40GHz)	±5.26dB

2.7 Test Location

Company:	Shenzhen Haiyun Standard Technical Co., Ltd.
Address:	No. 110-113, 115, 116, Block B, Jinyuan Business Building, Bao'an District, Shenzhen, China
CNAS Registration Number:	CNAS L18252
CAB identifier:	CN0145
A2LA Certificate Number:	6823.01
Telephone:	0755-26024411

2.8 SUPPORT UNITS

None

2.9 Deviation from Standards

None

2.10 Abnormalities from Standard Conditions

None

3. Test Procedure And Results

3.1 AC Power Line Conducted Emission

3.1.1 Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

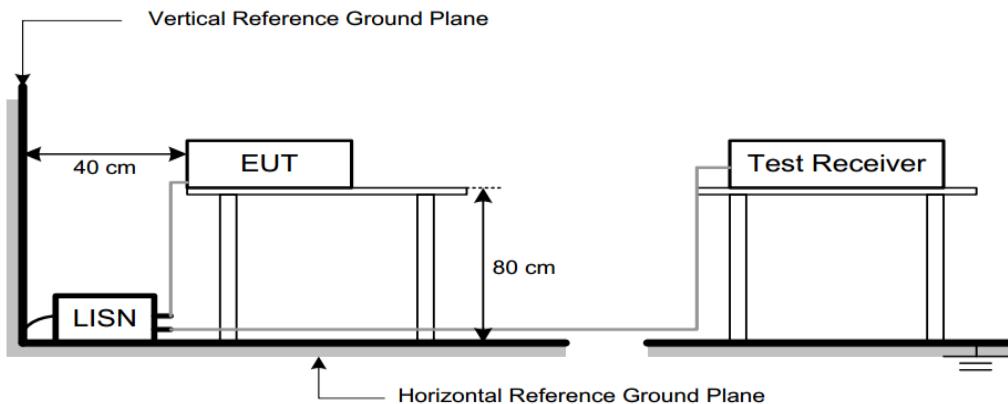
3.1.2 Test Procedure

Test Method	
●Conducted Measurement	<input checked="" type="radio"/> Radiated Measurement
Test Channels	
<input type="radio"/> Lowest, Middle and Highest Channel	<input type="radio"/> Lowest and Highest Channel
Environmental conditions	
●Normal	<input type="radio"/> Normal and Extreme

Note: ●:Test ○:No Test

- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

3.1.3 Test Setup



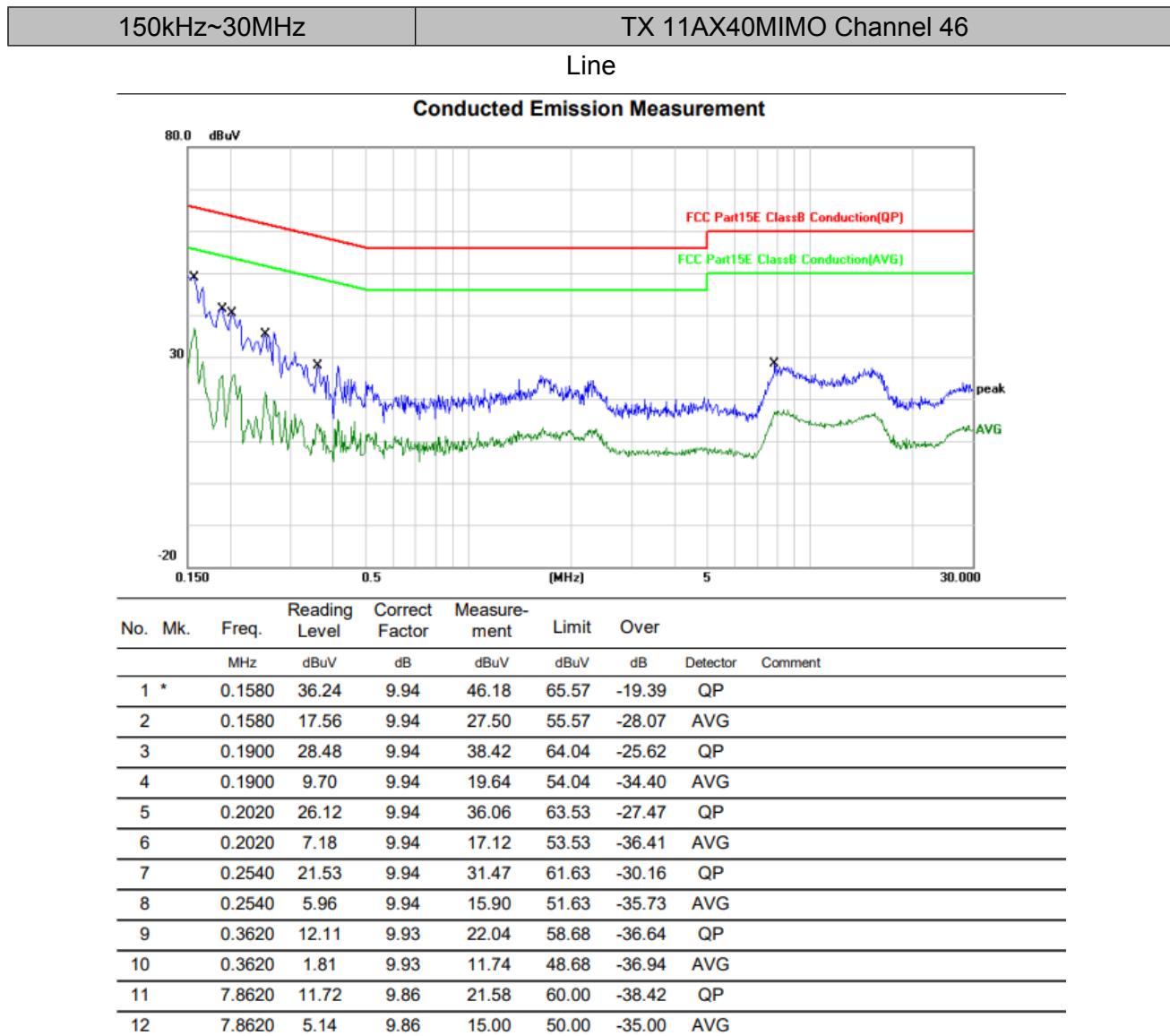


3.1.4 Test Result

Note:

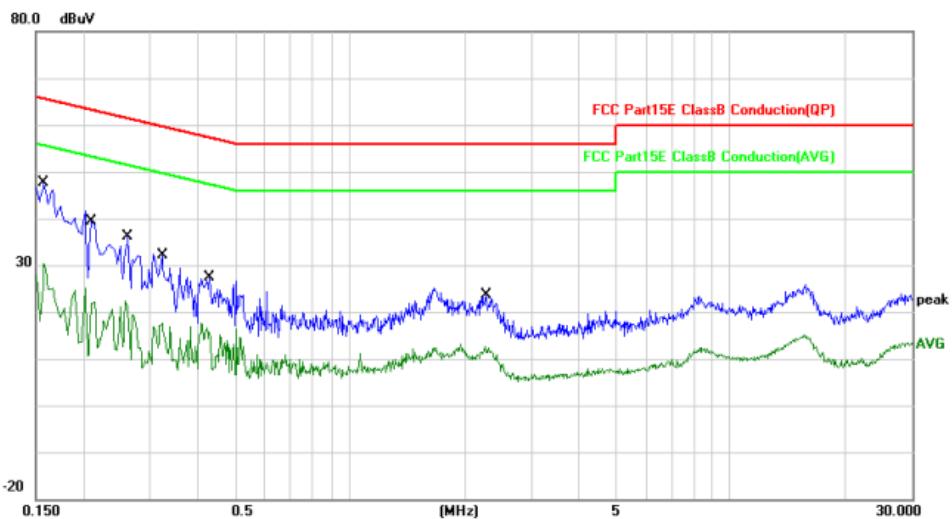
1. Correct Factor = LISN Factor + Cable Loss + Pulse Limiter Factor, the value was added to Original Receiver Reading by the software automatically.
2. Measurement = Reading + Correct Factor.
3. Over = Measurement – Limit
4. The TX 11AX40 Mode Channel 46 is found to be the worst case and recorded.

HT-6766BE





Conducted Emission Measurement



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV	dB			
1 *		0.1580	36.37	9.94	46.31	65.57	-19.26	QP	
2		0.1580	17.03	9.94	26.97	55.57	-28.60	AVG	
3		0.2100	26.24	9.94	36.18	63.21	-27.03	QP	
4		0.2100	8.47	9.94	18.41	53.21	-34.80	AVG	
5		0.2620	21.25	9.94	31.19	61.37	-30.18	QP	
6		0.2620	6.52	9.94	16.46	51.37	-34.91	AVG	
7		0.3220	17.22	9.94	27.16	59.66	-32.50	QP	
8		0.3220	4.91	9.94	14.85	49.66	-34.81	AVG	
9		0.4300	12.80	9.93	22.73	57.25	-34.52	QP	
10		0.4300	3.23	9.93	13.16	47.25	-34.09	AVG	
11		2.2740	7.32	9.91	17.23	56.00	-38.77	QP	
12		2.2740	0.94	9.91	10.85	46.00	-35.15	AVG	



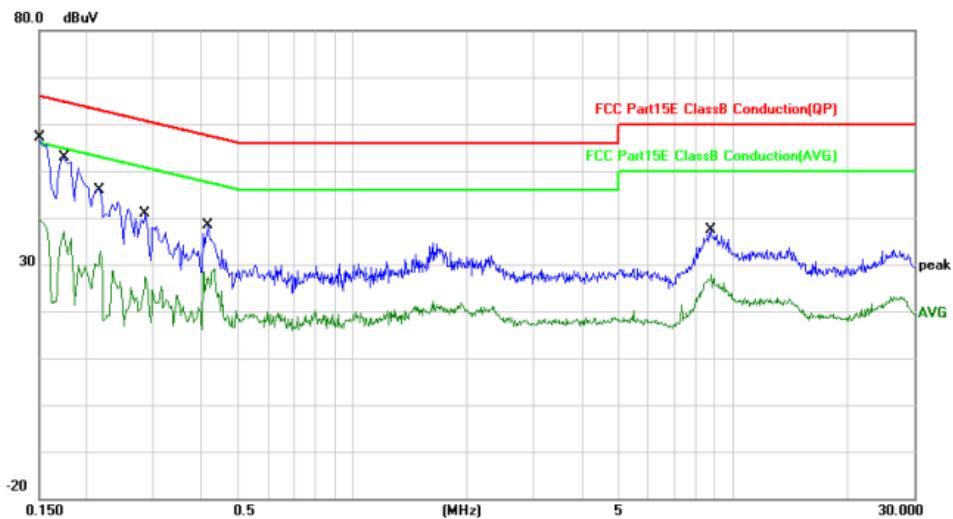
HT-6766BDM

150kHz~30MHz

TX 11AX40MIMO Channel 46

Line

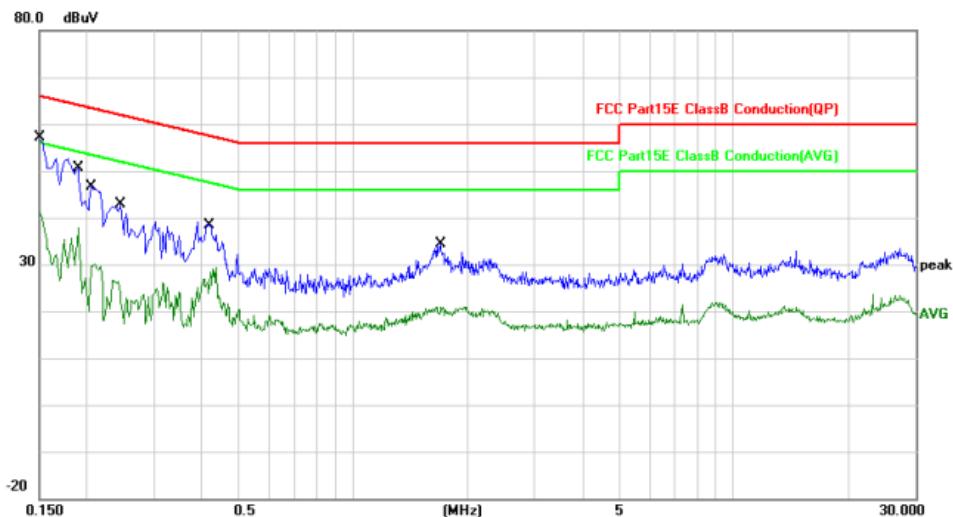
Conducted Emission Measurement



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dB	Detector	Comment
1	*	0.1500	35.75	19.52	55.27	66.00	-10.73	QP
2		0.1500	19.46	19.52	38.98	56.00	-17.02	AVG
3		0.1740	31.36	19.49	50.85	64.77	-13.92	QP
4		0.1740	11.13	19.49	30.62	54.77	-24.15	AVG
5		0.2180	23.81	19.52	43.33	62.89	-19.56	QP
6		0.2180	7.47	19.52	26.99	52.89	-25.90	AVG
7		0.2860	15.27	19.52	34.79	60.64	-25.85	QP
8		0.2860	0.88	19.52	20.40	50.64	-30.24	AVG
9		0.4180	14.10	19.47	33.57	57.49	-23.92	QP
10		0.4180	4.23	19.47	23.70	47.49	-23.79	AVG
11		8.7020	11.66	20.14	31.80	60.00	-28.20	QP
12		8.7020	5.37	20.14	25.51	50.00	-24.49	AVG



Conducted Emission Measurement



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dB	Detector	Comment
1	*	0.1500	35.72	19.52	55.24	66.00	-10.76	QP
2		0.1500	19.26	19.52	38.78	56.00	-17.22	AVG
3		0.1900	28.49	19.51	48.00	64.04	-16.04	QP
4		0.1900	11.21	19.51	30.72	54.04	-23.32	AVG
5		0.2060	24.94	19.52	44.46	63.37	-18.91	QP
6		0.2060	7.08	19.52	26.60	53.37	-26.77	AVG
7		0.2460	19.57	19.53	39.10	61.89	-22.79	QP
8		0.2460	3.64	19.53	23.17	51.89	-28.72	AVG
9		0.4260	14.79	19.47	34.26	57.33	-23.07	QP
10		0.4260	5.11	19.47	24.58	47.33	-22.75	AVG
11		1.6980	7.13	19.63	26.76	56.00	-29.24	QP
12		1.6980	-0.18	19.63	19.45	46.00	-26.55	AVG



3.2 Radiated Emission

3.2.1 Limit

1) Limit of radiated emission measurement:

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power:

Frequency (MHz)	Distance Meters(m)	Field Strength Limit	
		μV/m	dB(μV)/m
0.009 – 0.49	300	2400/F(kHz)	-
0.490 – 1.705	30	24000/F(kHz)	-
1.705 – 30	30	30	-
30~88	3	100	40.0
88~216	3	150	43.5
216~960	3	200	46.0
960~1000	3	500	54.0
Above 1000	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

Note: (1) Emission level $dB\mu V = 20 \log Emission\ level\ \mu V/m$

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

2) Limit of unwanted emission out of the restricted bands:

Frequency(MHz)	EIRP Limit(dBm/MHz)	Equivalent Field Strength at 3m(dBμV/m)
5150-5250	-27	68.2
5250-5350	-27	68.2
5470-5725	-27	68.2
	-27 NOTE (2)	68.2
5725-5850	10 NOTE (2)	105.2
	15.6 NOTE (2)	110.8
	27 NOTE (2)	122.2

Note: (1) The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength: $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for $d=3m$

(2) According to 15.407(b)(4)(i), all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

3.2.2 Test Procedure

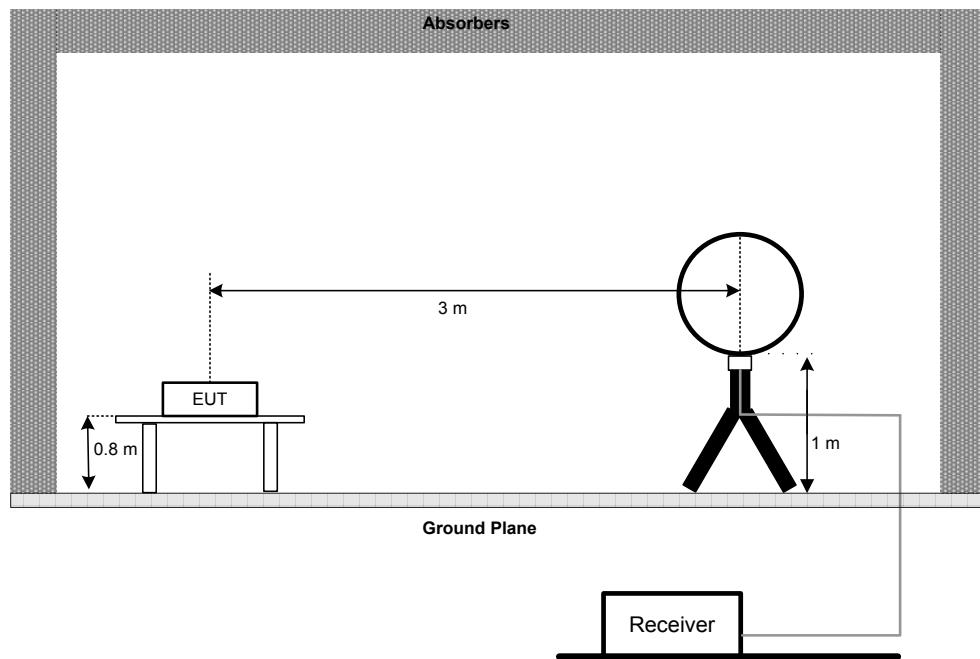
Test Method	
○Conducted Measurement	●Radiated Measurement
Test Channels	
●Lowest, Middle and Highest Channel	○ Lowest and Highest Channel
Environmental conditions	
●Normal	○Normal and Extreme

Note: ●:Test ○:No Test

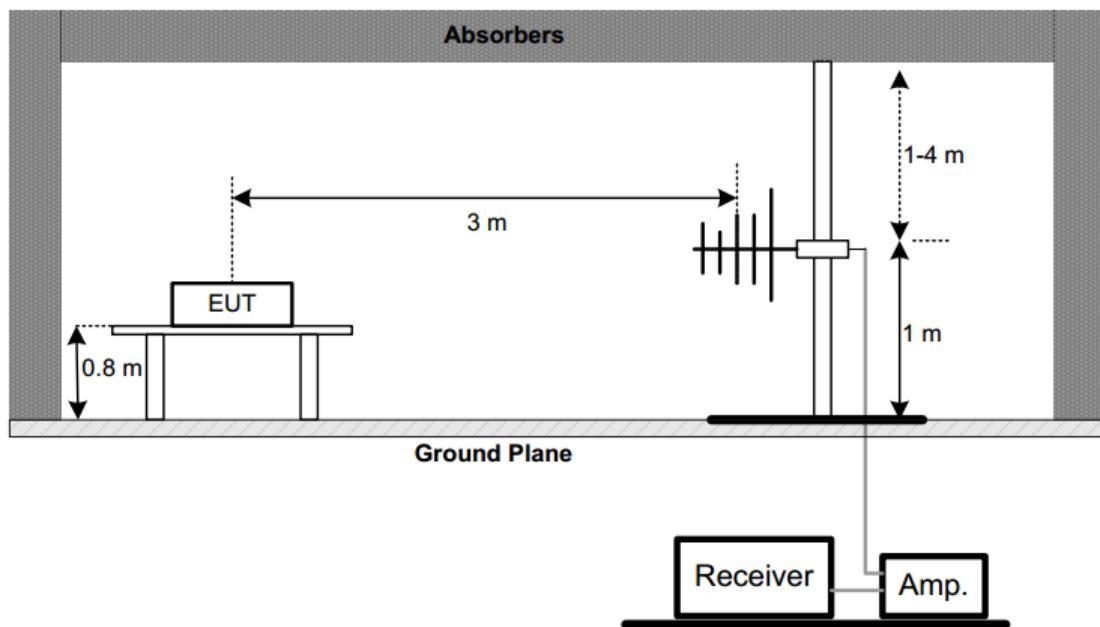
- a) The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
- b) The measuring distance of 3 m or 1.5m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c) The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e) The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- f) The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g) All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1 GHz)
- h) All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1 GHz)
- i) For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.2.3 Test Setup

(A) Radiated Emission Test Set-Up Frequency Below 30 MHz

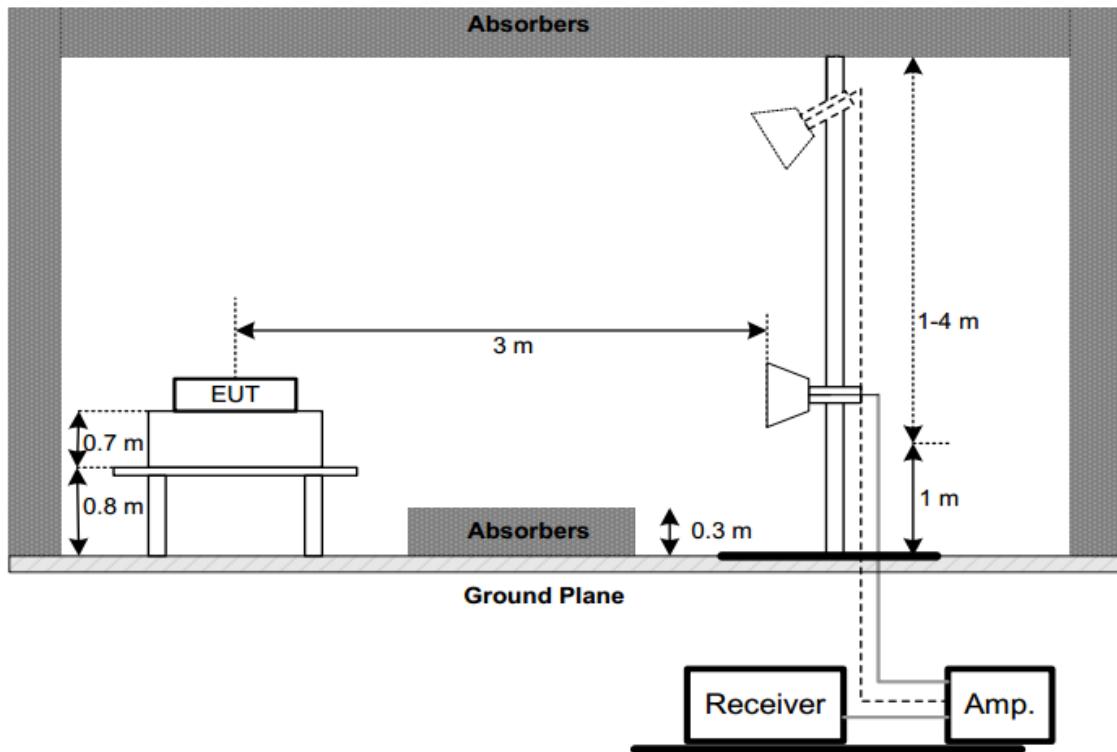


(B) Radiated Emission Test Set-Up Frequency 30 MHz-1000 MHz





(C) Radiated Emission Test Set-Up Frequency Above 1 GHz



3.2.4 Test Result

1) Radiated emission: 9kHz-30MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not recorded in this report.

2) Radiated emission: 30MHz-1GHz

Note:

1. Measurement = Reading + Correct Factor.
2. Over = Measurement – Limit
3. The TX 11AX40 Mode Channel 46 is found to be the worst case and recorded.



HT-6766BE

Below 1GHz (30MHz~1GHz)

TX 11AX40MIMO Channel 46

VERTICAL

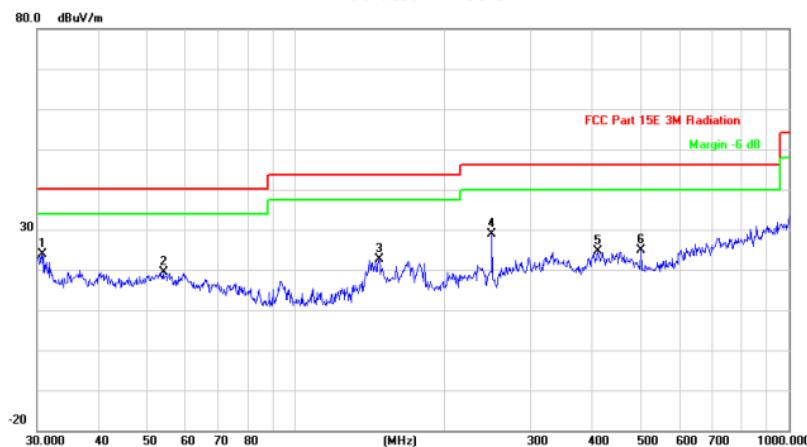
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Antenna Height	Table Degree	Comment	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	37.4164	45.85	-10.68	35.17	40.00	-4.83	peak			
2		55.6092	43.56	-11.23	32.33	40.00	-7.67	peak			
3		93.7681	44.90	-13.86	31.04	43.50	-12.46	peak			
4		141.3296	36.30	-10.39	25.91	43.50	-17.59	peak			
5		228.4901	41.20	-12.91	28.29	46.00	-17.71	peak			
6		622.8900	29.45	-2.35	27.10	46.00	-18.90	peak			

HORIZONTAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Antenna Height	Table Degree	Comment	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	30.7454	34.72	-10.79	23.93	40.00	-16.07	peak			
2		54.0710	30.41	-11.09	19.32	40.00	-20.68	peak			
3		147.9214	33.55	-10.80	22.75	43.50	-20.75	peak			
4		250.3010	40.82	-12.03	28.79	46.00	-17.21	peak			
5		410.3824	32.77	-8.06	24.71	46.00	-21.29	peak			
6		501.1790	30.87	-5.94	24.93	46.00	-21.07	peak			



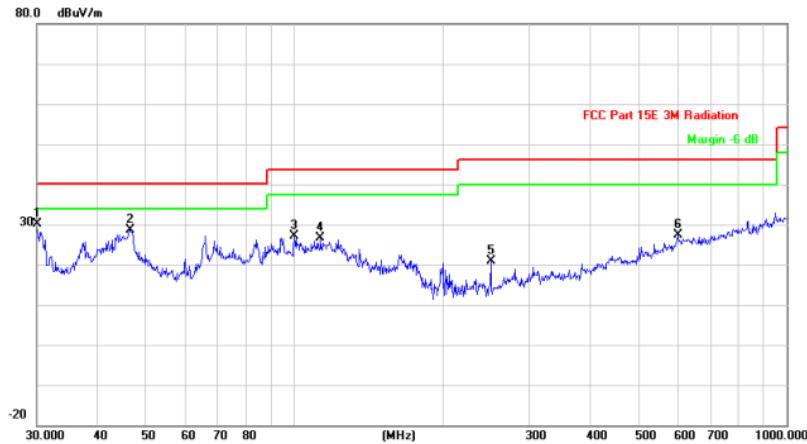
HT-6766BDM

Below 1GHz (30MHz~1GHz)

TX 11AX40MIMO Channel 46

VERTICAL

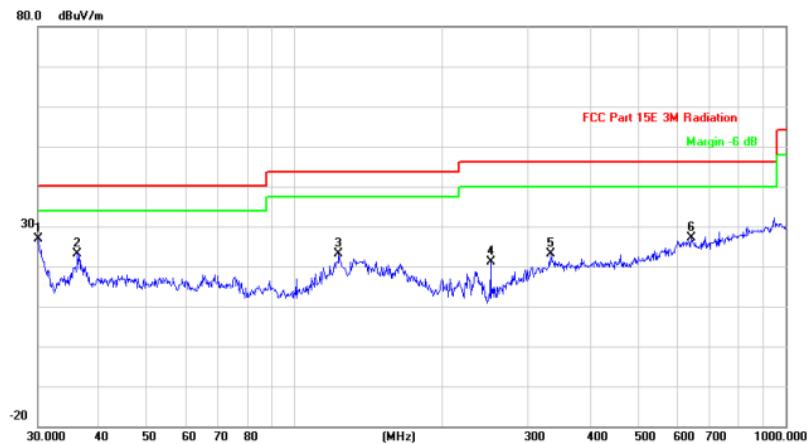
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Antenna Height	Table Degree	Comment	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	30.0000	41.15	-11.02	30.13	40.00	-9.87	peak			
2		46.3603	39.64	-11.01	28.63	40.00	-11.37	peak			
3		99.9980	40.76	-13.73	27.03	43.50	-16.47	peak			
4		113.0695	38.50	-11.92	26.58	43.50	-16.92	peak			
5		250.8332	32.90	-12.03	20.87	46.00	-25.13	peak			
6		601.1204	29.91	-2.45	27.46	46.00	-18.54	peak			

HORIZONTAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Antenna Height	Table Degree	Comment	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	30.1053	37.84	-10.99	26.85	40.00	-13.15	peak			
2		36.1338	33.66	-10.62	23.04	40.00	-16.96	peak			
3		123.0074	34.00	-10.92	23.08	43.50	-20.42	peak			
4		250.8332	33.24	-12.03	21.21	46.00	-24.79	peak			
5		332.1524	32.13	-9.11	23.02	46.00	-22.98	peak			
6		642.5770	29.42	-2.41	27.01	46.00	-18.99	peak			



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3) Radiated emission: Above 1GHz

Note:

1. Measurement = Reading + Correct Factor.
2. Over = Measurement – Limit

We only recorded the data of the worst mode. Please see the following:

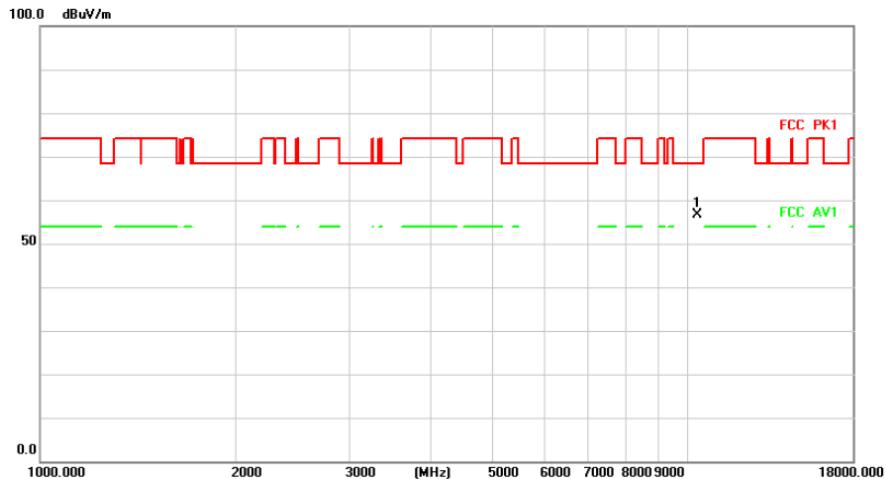




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HAIYUN

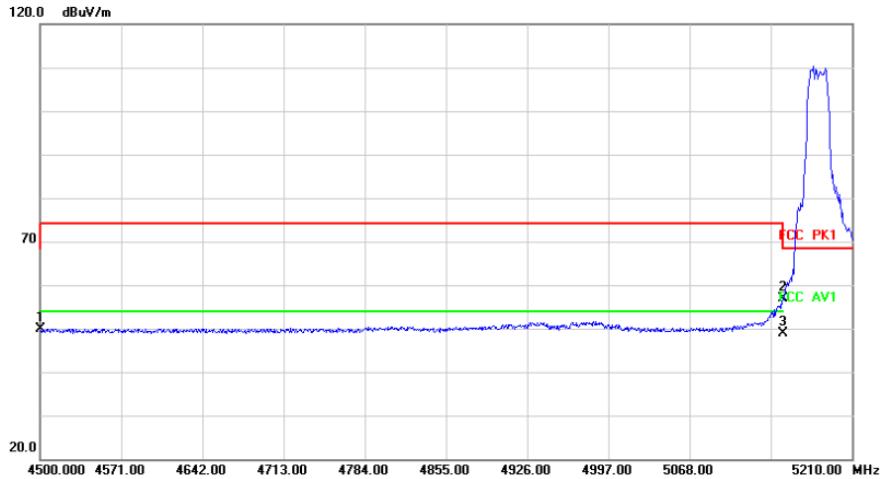
HORIZONTAL

Radiated Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
			Level	Factor	ment					
		MHz	dBuV	dB/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	10360.000	49.15	7.53	56.68	68.20	-11.52	peak		

Radiated Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
			Level	Factor	ment					
		MHz	dBuV	dB/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4500.000	43.03	6.90	49.93	68.20	-18.27	peak		
2		5150.000	48.42	8.54	56.96	68.20	-11.24	peak		
3	*	5150.000	40.25	8.54	48.79	54.00	-5.21	AVG		

Statement

1. The report is invalid without the official seal or special seal of Shenzhen Haiyun Standard Technical Co., Ltd. (hereinafter referred to as the unit).
2. The report is invalid without the signature of the approver.
3. The report is invalid if altered arbitrarily.
4. The report shall not be partially copied without the written approval of the unit.
5. The reported test results are only valid for the tested samples.
6. If there is any objection to the test report, it shall be submitted to the test unit within 15 days from the date of receiving the report, and the overdue shall not be accepted.

Shenzhen Haiyun Standard Technical Co., Ltd.

Address: Room 110, 111, 112, 113, 115, 116, Block B, Jinyuan Business Building, No. 302, Xixiang Avenue, Labor Community, Xixiang Street, Baoan District, Shenzhen, China

Tel: 0755-26024411

Email: service@hy-lab.cn

(END OF REPORT)