

# FCC Test Report

**Report No.** : 1812C50352412501

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**Applicant** : **Jinan USR IOT Technology Limited**

**Address** : **Floor F1 & Part of Floor F2, Building No. 9,  
Diya shuang chuang Industrial Zone, No.2566  
Century Main Road, Gaoxin District, Jinan,  
Shandong, China**

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**Product Name** : **Industrial Mini Computer**

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**Report Date** : **2025-09-05**

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## Shenzhen Anbotek Compliance Laboratory Limited



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## TEST REPORT

Applicant : Jinan USR IOT Technology Limited  
Manufacturer : Jinan USR IOT Technology Limited  
Product Name : Industrial Mini Computer  
Model No. : USR-EG628, USR-EG328, USR-EG928, USR-EG828, USR-EG528,  
              : USR-EG118, USR-EC100, USR-EC200, USR-EC300, USR-EC500,  
              : USR-EC600, USR-EC800, USR-M050, EM628, USR-EG228, USR-EG1100  
Trade Mark :   
Rating(s) : Input: 9-36V=2A

**Test Standard(s)** : 47 CFR Part 15.247  
**Test Method(s)** : ANSI C63.10: 2020, KDB 558074 D01 15.247 Meas Guidance v05r02

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the 47 CFR Part 15.247 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt 2025-07-18

Date of Test 2025-07-18 to 2025-08-13

Prepared by

  
(Cecilia Chen)

Approved & Authorized Signer

  
(Hugo Chen)

## Revision History

Report Version	Description	Issued Date
R00	Original Issue.	2025-09-05

**Note 1:**

The product contains a certified WiFi module: FCS960K-E. The RF conducted measurement data will retain the original test results. only Conducted Emission and Radiated Spurious Emission were retested.

## 1. General Information

### 1.1. Client Information

Applicant	:	Jinan USR IOT Technology Limited
Address	:	Floor F1 & Part of Floor F2, Building No. 9, Diya shuang chuang Industrial Zone, No.2566 Century Main Road, Gaoxin District, Jinan, Shandong, China
Manufacturer	:	Jinan USR IOT Technology Limited
Address	:	Floor F1 & Part of Floor F2, Building No. 9, Diya shuang chuang Industrial Zone, No.2566 Century Main Road, Gaoxin District, Jinan, Shandong, China
Factory	:	Jinan USR IOT Technology Limited
Address	:	Floor F1 & Part of Floor F2, Building No. 9, Diya shuang chuang Industrial Zone, No.2566 Century Main Road, Gaoxin District, Jinan, Shandong, China

### 1.2. Description of Device (EUT)

Product Name	:	Industrial Mini Computer
Model No.	:	USR-EG628, USR-EG328, USR-EG928, USR-EG828, USR-EG528, USR-EG118, USR-EC100, USR-EC200, USR-EC300, USR-EC500, USR-EC600, USR-EC800, USR-M050, EM628, USR-EG228, USR-EG1100 (Note: All samples are the same except the model number and the shell structure, so we prepare "USR-EG628" for test only.)
Trade Mark	:	
Test Power Supply	:	AC 120V/60Hz for adapter
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	Manufacturer: SHENZHEN TRANSIN TECHNOLOGIES CO.,LTD Model: TS-A024-120200AB Input: 110-240V~, 50/60Hz, 0.6A Output: 12V=2A

#### RF Specification

Operation Mode	:	<input checked="" type="checkbox"/> 802.11b	<input checked="" type="checkbox"/> 802.11g	<input checked="" type="checkbox"/> 802.11n(HT20)
	:	<input checked="" type="checkbox"/> 802.11n(HT40)	<input checked="" type="checkbox"/> 802.11ax(HEW20)	<input checked="" type="checkbox"/> 802.11ax(HEW40)
Operation Frequency	:	2412~2462MHz		
Number of Channel	:	11 Channel for 20MHz bandwidth (2412~2462MHz)	7 channels for 40MHz bandwidth (2422~2452MHz)	
Modulation Type	:	<input checked="" type="checkbox"/> 802.11b: DSSS (CCK, DQPSK, DBPSK)		

	<input checked="" type="checkbox"/> 802.11g: OFDM (BPSK, QPSK, 16QAM, 64QAM) <input checked="" type="checkbox"/> 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM) <input checked="" type="checkbox"/> 802.11ax: OFDMA(BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Antenna Type	:
Antenna Gain(Peak)	:
<b>Remark:</b> 1) All of the RF specification are provided by customer. 2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.	

**1.3. Auxiliary Equipment Used During Test**

Title	Manufacturer	Model No.	Serial No.
/	/	/	/

**1.4. Description of Test Configuration**

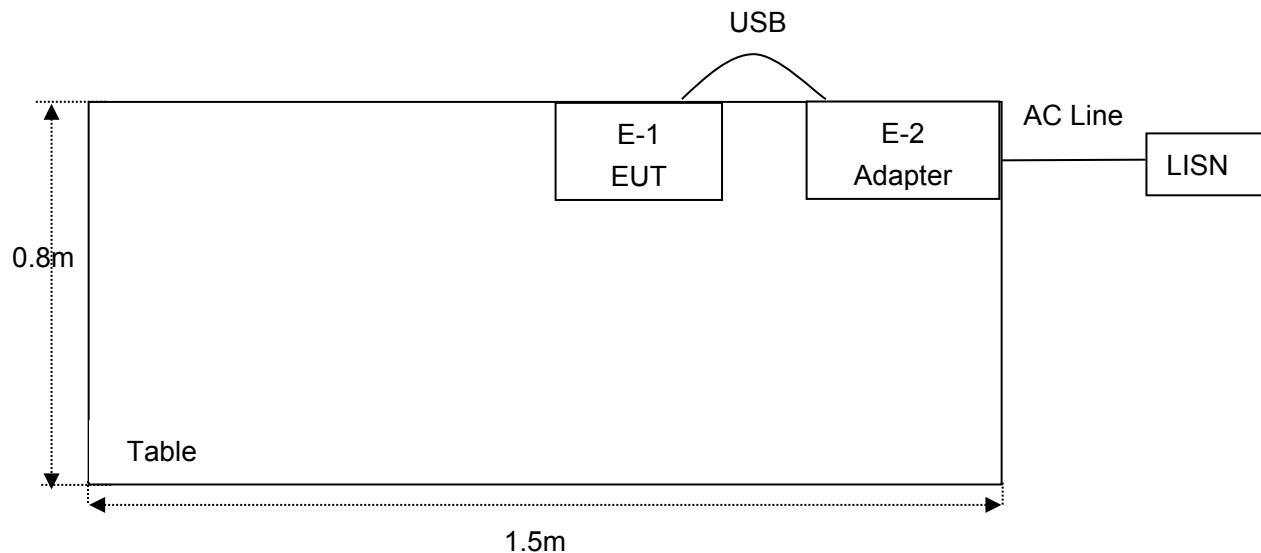
Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
<b>01</b>	<b>2412</b>	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	<b>11</b>	<b>2462</b>
<b>03</b>	<b>2422</b>	<b>06</b>	<b>2437</b>	<b>09</b>	<b>2452</b>		

Note:

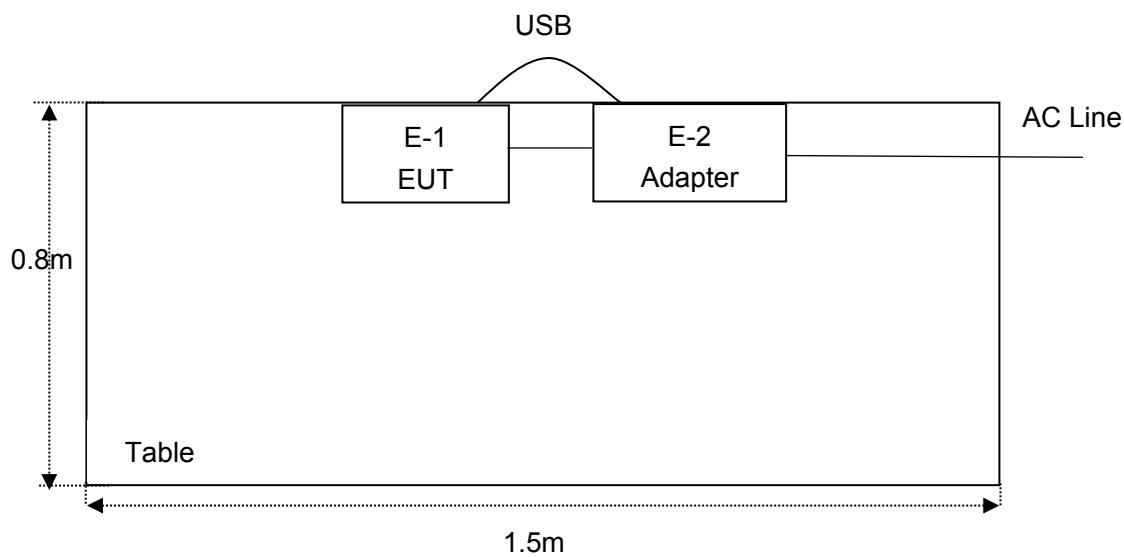
1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.
2. For 802.11b, 802.11g and 802.11n(HT20)/ax(HEW20) modes were test with channel 1, 6, 11.  
For 802.11n(HT40)/ax(HEW40) modes were test with channel 3, 6, 9.
3. 802.11ax mode only support full resource unit size.

### 1.5. Description of Test Setup

CE



RE



**1.6. Test Equipment List**

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-09-09	1 Year
2.	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040DT00 1	2025-01-13	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	2025-01-13	1 Year
4.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2025-01-14	1 Year
5.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	2024-09-09	1 Year
6.	EMI Preamplifier	SKET Electronic	LNPA-0118G- 45	SKET-PA-002	2025-01-13	1 Year
7.	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	3 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-13	3 Year
9.	Loop Antenna(9K-30M)	Schwarzbeck	FMZB1519B	00053	2024-09-12	1 Year
10.	Horn Antenna	A-INFO	LB-180400-KF	J211060628	2024-01-22	3 Year
11.	Pre-amplifier	SONOMA	310N	186860	2025-01-14	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
13.	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY53280032	2024-09-09	1 Year
14.	MXG RF Vector Signal Generator	Agilent	N5182A	MY47420647	2025-01-14	1 Year
15.	Signal Generator	Agilent	E4421B	MY41000743	2025-02-21	1 Year
16.	DC Power Supply	IVYTECH	IV3605	1804D360510	2024-09-09	1 Year
17.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	N/A	2024-10-14	1 Year
18.	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	1 Year

## 1.7. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.2dB
Occupied Bandwidth	925Hz
Conducted Output Power	0.76dB
Power Spectral Density	0.76dB
Conducted Spurious Emission	1.24dB
Radiated spurious emissions (Below 30MHz)	3.26dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.70dB; Vertical: 4.42dB
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.64dB 6G-18GHz: 4.82dB 18G-40GHz: 5.62dB
The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

## 1.8. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

### FCC-Registration No.: 279531

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 279531.

### Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.

## 1.9.Disclaimer

1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
2. The test report is invalid if there is any evidence and/or falsification.
3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.
7. The data in this report will be synchronized with the corresponding national market supervision and management departments and cross-border e-commerce platforms as required by regulatory agencies.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

## 2. Summary of Test Results

Standard Section	Test Item	Result
15.207	Conducted Emission	PASS
15.205/15.209	Radiated Spurious Emission	PASS
<b>Remark:</b> "N/A" is an abbreviation for Not Applicable.		

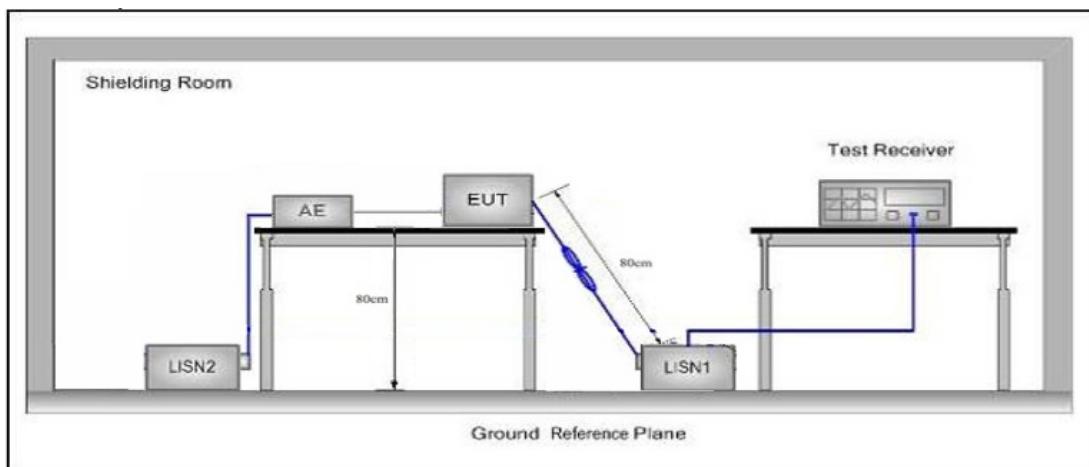
### 3. Conducted Emission Test

#### 3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.207		
Test Limit	Frequency	Maximum RF Line Voltage (dBuV)	
		Quasi-peak Level	Average Level
	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
	500kHz~5MHz	56	46
	5MHz~30MHz	60	50

**Remark:** (1) \*Decreasing linearly with logarithm of the frequency.  
 (2) The lower limit shall apply at the transition frequency.

#### 3.2. Test Setup



#### 3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10: 2020 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

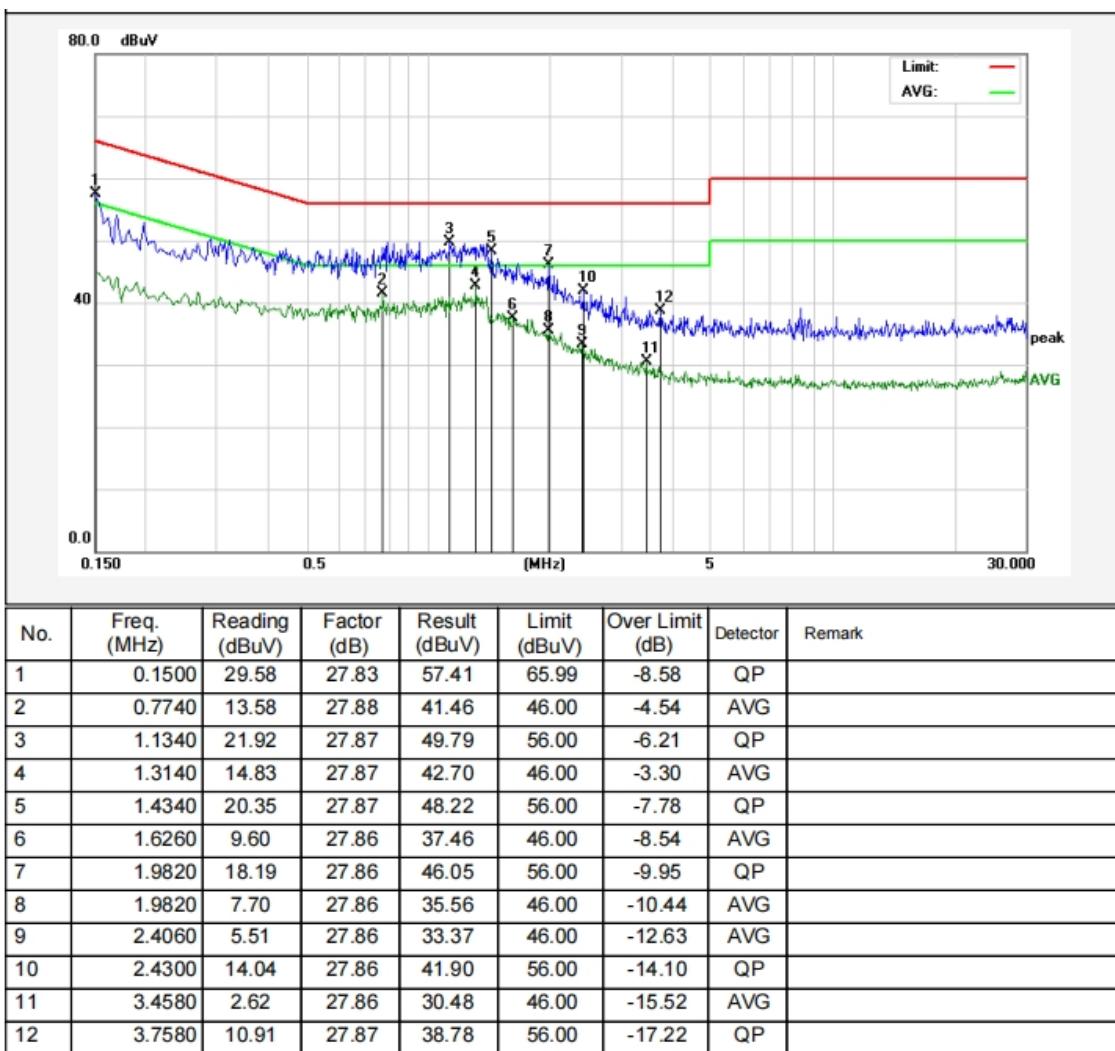
#### 3.4. Test Data

During the test, pre-scan all modes, only the worst case is recorded in the report.

Please to see the following pages.

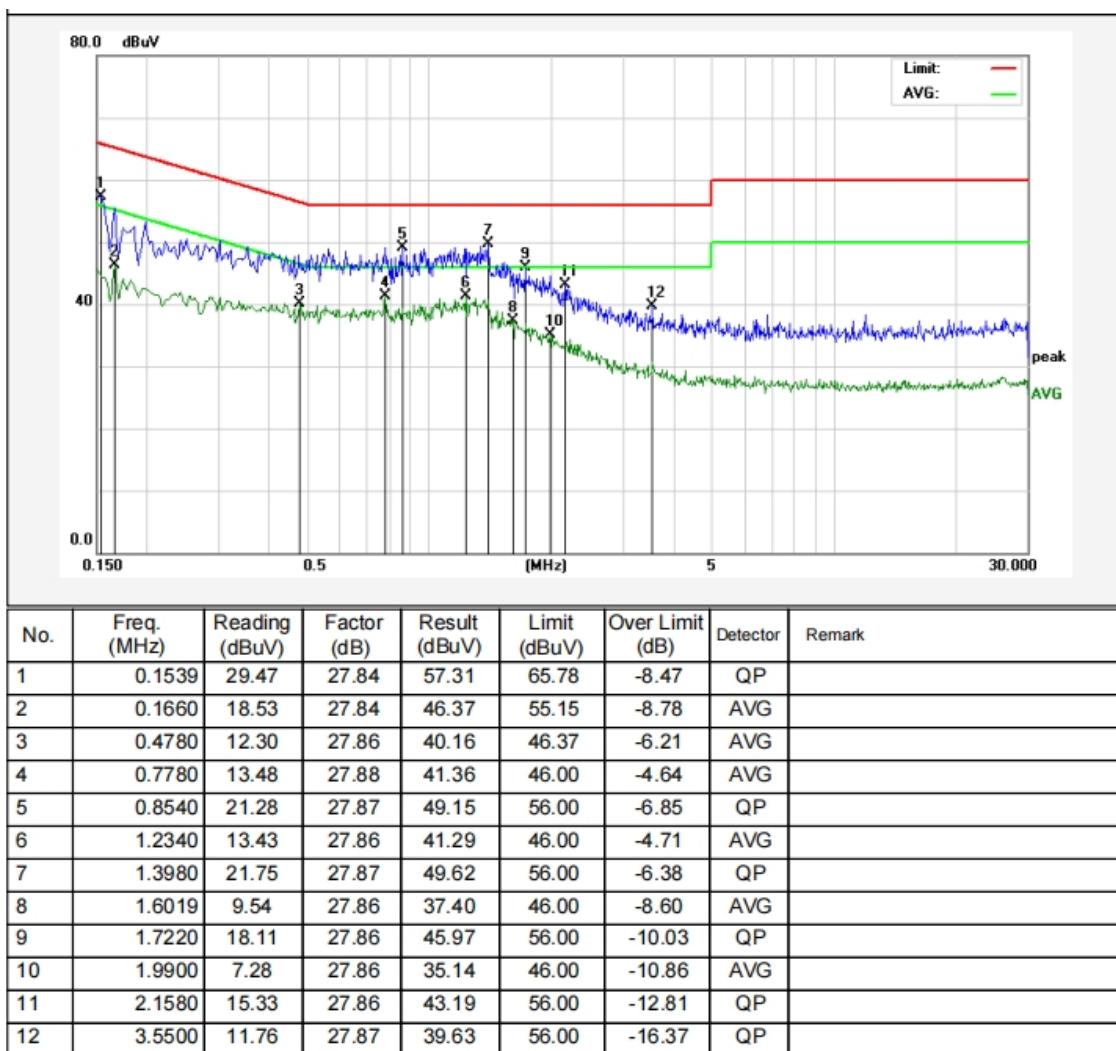
## Conducted Emission Test Data

Test Site: 1# Shielded Room  
 Operating Condition: 802.11n (HT20) 2437MHz  
 Test Specification: AC 120V/60Hz for adapter  
 Comment: Live Line  
 Temp.(°C)/Hum.(%RH): 26.3°C/59%RH



## Conducted Emission Test Data

Test Site: 1# Shielded Room  
 Operating Condition: 802.11n (HT20) 2437MHz  
 Test Specification: AC 120V/60Hz for adapter  
 Comment: Neutral Line  
 Temp.(°C)/Hum.(%RH): 26.3°C/59%RH



## 4. Radiation Spurious Emission and Band Edge Test

### 4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.209 and 15.205				
Test Limit	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz~1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz~30MHz	30	-	-	30
	30MHz~88MHz	100	40.0	Quasi-peak	3
	88MHz~216MHz	150	43.5	Quasi-peak	3
	216MHz~960MHz	200	46.0	Quasi-peak	3
	960MHz~1000MHz	500	54.0	Quasi-peak	3
Above 1000MHz	500	54.0	Average	3	
	-	74.0	Peak	3	

**Remark:**

(1)The lower limit shall apply at the transition frequency.  
(2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

### 4.2. Test Setup

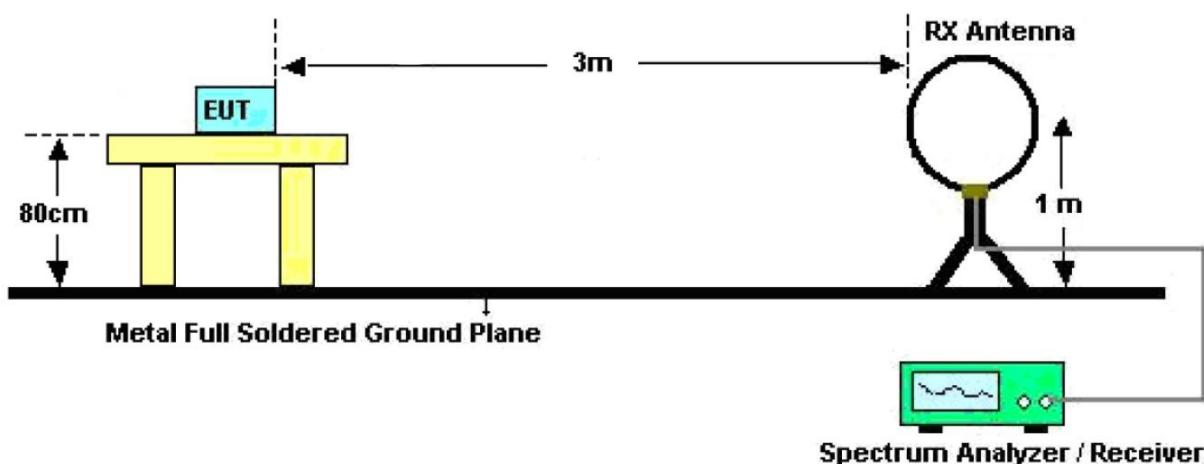


Figure 1. Below 30MHz

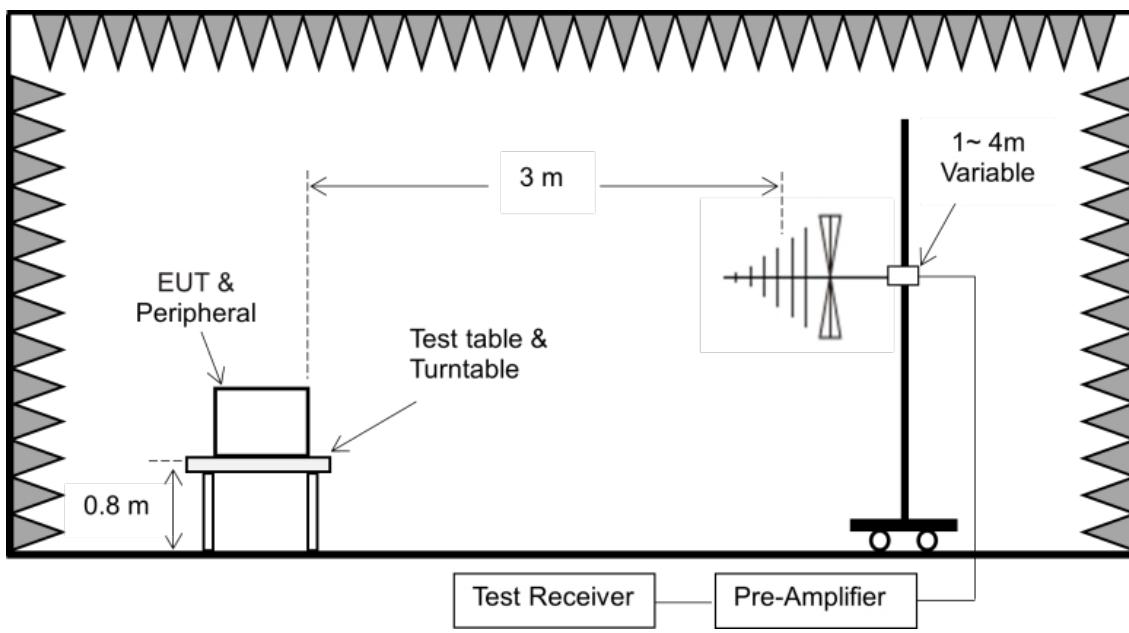


Figure 2. 30MHz to 1GHz

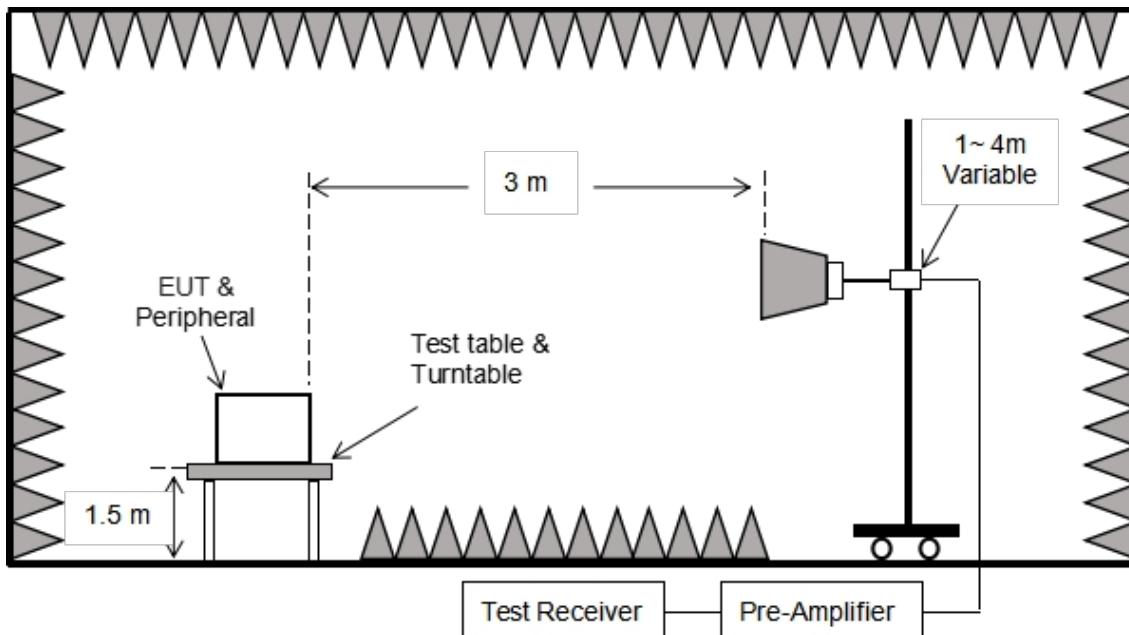


Figure 3. Above 1 GHz

#### 4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.

For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9\*6\*6 Chamber. The device is evaluated in xyz orientation.

For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW =1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9KHz, VBW =30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW =300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For above 1GHz, Set the spectrum analyzer as:

RBW =1MHz, VBW =1MHz, Detector= Peak, Trace mode= Max hold, Sweep- auto couple.

For average measurement:

–VBW=10Hz, When duty cycle is no less than 98 percent

–VBW $\geq$ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation, so refer to this clause 5.4 duty cycle.

#### 4.4. Test Data

##### PASS

During the test, Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the X-axis is the worst case.

The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

During the test, pre-scan all modes, only the worst case is recorded in the report.

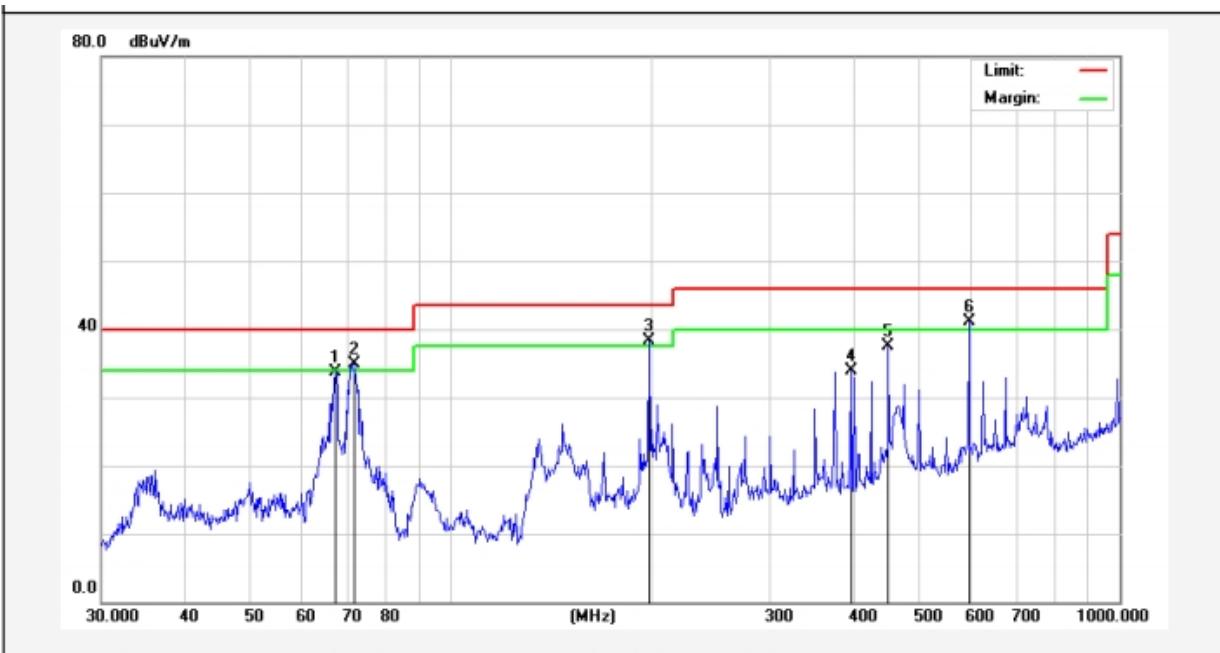
**Test Results (30~1000MHz)**

Test Mode: 802.11n (HT20) 2437MHz

Power Source: AC 120V/60Hz for adapter

Polarization: Horizontal

Temp.(°C)/Hum.(%RH): 22.5°C/55%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Remark
1	67.2022	54.83	-21.03	33.80	40.00	-6.20	QP	
2	71.5806	57.35	-22.35	35.00	40.00	-5.00	QP	
3	197.8926	58.64	-20.25	38.39	43.50	-5.11	QP	
4	396.2414	47.79	-13.84	33.95	46.00	-12.05	QP	
5	451.1349	49.99	-12.55	37.44	46.00	-8.56	QP	
6	595.1327	50.81	-9.79	41.02	46.00	-4.98	QP	

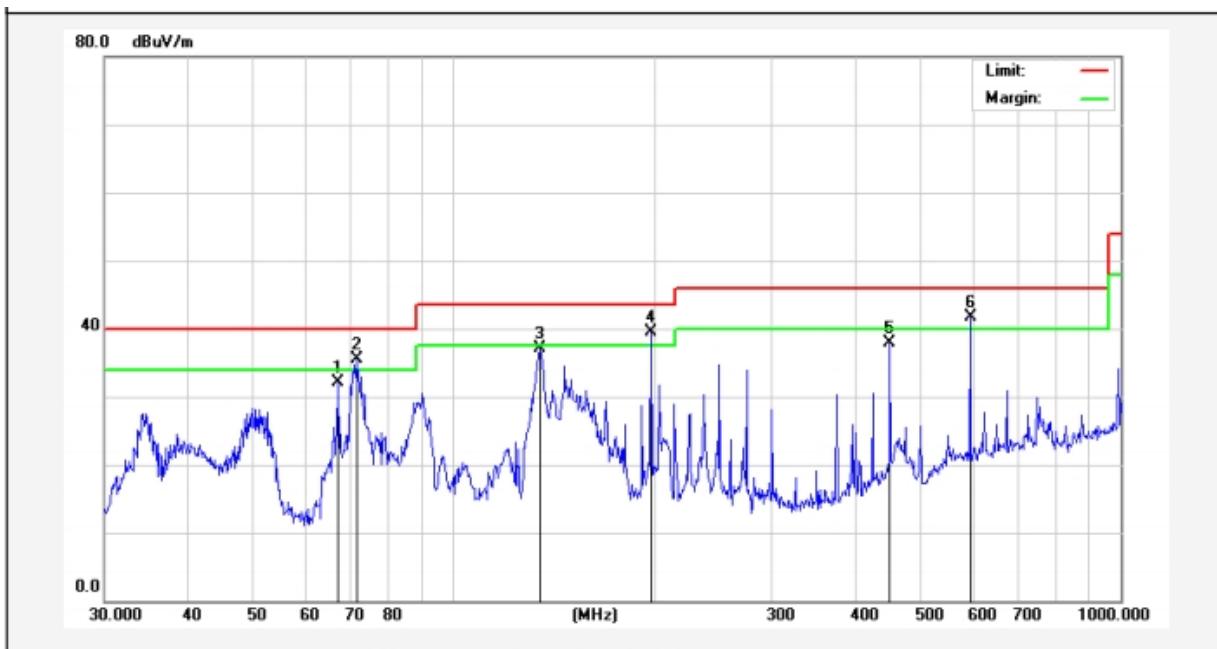
**Test Results (30~1000MHz)**

Test Mode: 802.11n (HT20) 2437MHz

Power Source: AC 120V/60Hz for adapter

Polarization: Vertical

Temp.(°C)/Hum.(%RH): 22.5°C/55%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Remark
1	67.2022	53.09	-21.03	32.06	40.00	-7.94	QP	
2	71.5806	57.77	-22.35	35.42	40.00	-4.58	QP	
3	134.5592	59.81	-22.61	37.20	43.50	-6.30	QP	
4	197.8926	59.71	-20.15	39.56	43.50	-3.94	QP	
5	451.1349	50.53	-12.54	37.99	46.00	-8.01	QP	
6	595.1327	51.68	-9.92	41.76	46.00	-4.24	QP	

**Test Results (Above 1000MHz)**

Test Mode: 802.11n (HT20) Mode			Test channel: Lowest			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	29.25	15.31	44.56	74.00	-29.44	Vertical
7236.00	29.85	18.06	47.91	74.00	-26.09	Vertical
9648.00	31.08	23.77	54.85	74.00	-19.15	Vertical
12060.00	*			74.00		Vertical
14472.00	*			74.00		Vertical
4824.00	29.75	15.31	45.06	74.00	-28.94	Horizontal
7236.00	29.38	18.06	47.44	74.00	-26.56	Horizontal
9648.00	28.13	23.77	51.90	74.00	-22.10	Horizontal
12060.00	*			74.00		Horizontal
14472.00	*			74.00		Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	20.34	15.31	35.65	54.00	-18.35	Vertical
7236.00	20.72	18.06	38.78	54.00	-15.22	Vertical
9648.00	21.33	23.77	45.10	54.00	-8.90	Vertical
12060.00	*			54.00		Vertical
14472.00	*			54.00		Vertical
4824.00	20.30	15.31	35.61	54.00	-18.39	Horizontal
7236.00	19.96	18.06	38.02	54.00	-15.98	Horizontal
9648.00	19.10	23.77	42.87	54.00	-11.13	Horizontal
12060.00	*			54.00		Horizontal
14472.00	*			54.00		Horizontal

**Test Results (Above 1000MHz)**

Test Mode: 802.11n (HT20) Mode				Test channel: Middle		
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	30.62	15.41	46.03	74.00	-27.97	Vertical
7311.00	30.04	18.01	48.05	74.00	-25.95	Vertical
9748.00	31.40	23.79	55.19	74.00	-18.81	Vertical
12185.00	*			74.00		Vertical
14622.00	*			74.00		Vertical
4874.00	30.74	15.41	46.15	74.00	-27.85	Horizontal
7311.00	31.95	18.01	49.96	74.00	-24.04	Horizontal
9748.00	31.57	23.79	55.36	74.00	-18.64	Horizontal
12185.00	*			74.00		Horizontal
14622.00	*			74.00		Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	21.32	15.41	36.73	54.00	-17.27	Vertical
7311.00	19.94	18.01	37.95	54.00	-16.05	Vertical
9748.00	22.10	23.79	45.89	54.00	-8.11	Vertical
12185.00	*			54.00		Vertical
14622.00	*			54.00		Vertical
4874.00	20.64	15.41	36.05	54.00	-17.95	Horizontal
7311.00	21.35	18.01	39.36	54.00	-14.64	Horizontal
9748.00	21.47	23.79	45.26	54.00	-8.74	Horizontal
12185.00	*			54.00		Horizontal
14622.00	*			54.00		Horizontal

## Test Results (Above 1000MHz)

Test Mode: 802.11n (HT20) Mode				Test channel: Highest		
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	28.79	15.51	44.30	74.00	-29.70	Vertical
7386.00	29.57	17.97	47.54	74.00	-26.46	Vertical
9848.00	31.37	23.82	55.19	74.00	-18.81	Vertical
12310.00	*			74.00		Vertical
14772.00	*			74.00		Vertical
4924.00	27.94	15.51	43.45	74.00	-30.55	Horizontal
7386.00	29.25	17.97	47.22	74.00	-26.78	Horizontal
9848.00	28.02	23.82	51.84	74.00	-22.16	Horizontal
12310.00	*			74.00		Horizontal
14772.00	*			74.00		Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	19.72	15.51	35.23	54.00	-18.77	Vertical
7386.00	20.49	17.97	38.46	54.00	-15.54	Vertical
9848.00	21.88	23.82	45.70	54.00	-8.30	Vertical
12310.00	*			54.00		Vertical
14772.00	*			54.00		Vertical
4924.00	19.31	15.51	34.82	54.00	-19.18	Horizontal
7386.00	19.65	17.97	37.62	54.00	-16.38	Horizontal
9848.00	19.29	23.82	43.11	54.00	-10.89	Horizontal
12310.00	*			54.00		Horizontal
14772.00	*			54.00		Horizontal

## Remark:

1. During the test, pre-scan the 802.11b,g,n(HT20),n(HT40) mode, and found the 802.11n (HT20) mode is worse case , the report only record this mode.
2. Result=Reading + Factor
3. Test frequency are from 1GHz to 25GHz, “\*” means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

## APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph\_RF

## APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

## APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report -----