Radio Test Report

Report No.: STS2503099W04

Issued for

FOXX Development Inc.

3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA

Product Name:	Smart Phone
Brand Name:	MIRO, FOXX, FOXXD, AIRVOICE, FOXXD HTH
Model Name:	C69M Pro
Series Model(s):	N/A
FCC ID:	2AQRM-C69MPRO
Test Standards:	FCC Part15.407

TEST REPORT

Applicant's Name.....: FOXX Development Inc.

Address .....: 3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA

Manufacturer's Name.....: FOXX Development Inc.

Address .....: 3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA

Product Description

Product Name.....: Smart Phone

Brand Name.....: MIRO, FOXX, FOXXD, AIRVOICE, FOXXD HTH

Model Name .....: C69M Pro

Series Model(s) .....: N/A

Test Standards .....: FCC Part15.407

Test Procedure ..... ANSI C63.10-2020

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

Date of Test .....:

Date of receipt of test item.....: March 09, 2025

Date (s) of performance of tests .....: March 09, 2025~April 01, 2025

Date of Issue .....: April 02, 2025

Test Result.....: **Pass**

Testing Engineer : Aaron Bu

(Aaron Bu)

Technical Manager : Skylar Li

(Skylar Li)

Authorized Signatory : Bovey Yang

(Bovey Yang)

SHENZHEN STS TEST SERVICES CO., LTD. TESTING APPROVAL

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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	April 02, 2025	STS2503099W04	ALL	Initial Issue

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:
§ 15.407,KDB 789033 D02 General U-NII Test Procedures New Rules v02r01

FCC Part 15.407		
FCC standard	Test Item	Results
15.207	AC Conducted Emission	PASS
15.407 (a) /15.407 (e)	26dB/6dB &99% Bandwidth	PASS
15.407(a)	Maximum Conducted Output Power	PASS
15.407(b)/15.205/15.209	Radiated Emission And (bandedge Emissions) Measurement	PASS
15.407(a)	Power Spectral Density	PASS
15.407(c)	Automatically Discontinue Transmission	PASS
15.203/15.204	Antenna Requirement	PASS

Note:

(1) 'N/A' denotes test is not applicable in this Test Report.

(2) All tests are according to ANSI C63.10-2020.

1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD
Add.: 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China
FCC test Firm Registration Number: 625569
IC test Firm Registration Number: 12108A
A2LA Certificate No.: 4338.01

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y ± U**, where expended uncertainty **U** is based on a standard uncertainty multiplied by a coverage factor of **k=2**, providing a level of confidence of approximately **95** %.

No.	Item	Uncertainty
1	RF output power, conducted	±0.755dB
2	Unwanted Emissions, conducted	±2.874dB
3	All emissions, radiated 9K-30MHz	±3.80dB
4	All emissions, radiated 30M-1GHz	±4.18dB
5	All emissions, radiated 1G-6GHz	±4.90dB
6	All emissions, radiated>6G	±5.24dB
7	Conducted Emission (9KHz-150KHz)	±2.19dB
8	Conducted Emission (150KHz-30MHz)	±2.53dB
9	Occupied Channel Bandwidth	±3.5%
10	Power Spectral Density, conducted	±1.245dB
11	Duty Cycle	±3.2%

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

<table>
<tr><td>Product Name</td><td>Smart Phone</td></tr>
<tr><td>Brand Name</td><td>MIRO, FOXX, FOXXD, AIRVOICE, FOXXD HTH</td></tr>
<tr><td>Model Name</td><td>C69M Pro</td></tr>
<tr><td>Series Model(s)</td><td>N/A</td></tr>
<tr><td>Model Difference</td><td>N/A</td></tr>
<tr><td>Product Description</td><td>The EUT is Smart Phone
<table>
<tr><td rowspan="4">Operation Frequency:</td><td>IEEE 802.11a/ n(HT20)/ac(VHT20): 5.180GHz-5.240GHz
IEEE 802.11n(HT40)/ac(VHT40): 5.190GHz-5.230GHz
IEEE 802.11ac(VHT80): 5.210GHz</td></tr>
<tr><td>IEEE 802.11a/ n(HT20)/ac(VHT20): 5.260GHz-5.320GHz
IEEE 802.11 n(HT40)/ac(VHT40): 5.270GHz-5.310GHz
IEEE 802.11ac(VHT80): 5.290GHz</td></tr>
<tr><td>IEEE 802.11a/ n(HT20)/ac(VHT20): 5.500GHz-5.700GHz
IEEE 802.11 n(HT40)/ac(VHT40): 5.510GHz-5.670GHz
IEEE 802.11ac(VHT80): 5.530GHz-5.610GHz</td></tr>
<tr><td>IEEE 802.11a/ n(HT20)/ac(VHT20): 5.745GHz-5.825GHz
IEEE 802.11a/ n(HT40)/ac(VHT40): 5.755GHz-5.795GHz
IEEE 802.11ac(VHT80): 5.775GHz</td></tr>
<tr><td>Modulation Type:</td><td>802.11a(OFDM): BPSK,QPSK,16-QAM,64-QAM
802.11n(OFDM): BPSK,QPSK,16-QAM,64-QAM
802.11ac(OFDM): BPSK,QPSK,16-QAM,64-QAM,256-QAM</td></tr>
<tr><td>Antenna Type:</td><td>Internal Antenna</td></tr>
<tr><td>Antenna Gain (dBi):</td><td>5.180GHz-5.240GHz:1.80
5.260GHz-5.320GHz:2.42
5.500GHz-5.700GHz:1.34
5.745GHz-5.825GHz:-1.45</td></tr>
<tr><td>Max.Output Power(Conducted):</td><td>18.89</td></tr>
</table>
More details of EUT technical specification, please refer to the User Manual.</td></tr>
<tr><td>Test Channel</td><td>Please refer to the Note 3.</td></tr>
<tr><td>Adapter</td><td>Model: QZ-02002AC00
Input: AC 100-240V, 50/60Hz, 0.5A
Output: DC 5V, 3A(15.0W) or DC 9V, 2.22A or DC 12V, 1.67A(20.0W Max)</td></tr>
<tr><td>Battery</td><td>Rechargeable Li-ion Battery DC 3.87V</td></tr>
<tr><td>Hardware version number</td><td>N/A</td></tr>
<tr><td>Software version number</td><td>N/A</td></tr>
<tr><td>Connecting I/O Port(s)</td><td>Please refer to the Note 1.</td></tr>
</table>

Note

1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
2. The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.

3.

Operation Frequency of channel			
5.180GHz-5.240GHz		5.500GHz-5.720GHz	
Channel	Frequency	Channel	Frequency
36	5180	100	5500
38	5190	102	5510
40	5200	104	5520
42	5210	106	5530
44	5220	108	5540
46	5230	110	5550
48	5240	112	5560
		116	5580
5.260GHz-5.320GHz		118	5590
Channel	Frequency	120	5600
52	5260	122	5610
54	5270	124	5620
56	5280	126	5630
58	5290	128	5640
60	5300	132	5660
62	5310	134	5670
64	5320	136	5680
		140	5700
5.745GHz-5.825GHz			
Channel	Frequency		
149	5745		
151	5755		
153	5765		
157	5785		
159	5795		
161	5805		
165	5825		

Note:
In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:
Carrier Frequency Channel

5GHz:

For 802.11a/n(HT20)/ac(VHT20)			
Channel	Freq.(MHz)	Channel	Freq.(MHz)
36	5180	52	5260
40	5200	60	5300
48	5240	64	5320

For 802.11a/n(HT20)/ac(VHT20)			
Channel	Freq.(MHz)	Channel	Freq.(MHz)
100	5500	149	5745
116	5580	157	5785
140	5700	165	5825

For 802.11 n(HT40)/ac(VHT40)			
Channel	Freq.(MHz)	Channel	Freq.(MHz)
38	5190	54	5270
46	5230	62	5310

For 802.11 n(HT40)/ac(VHT40)			
Channel	Freq.(MHz)	Channel	Freq.(MHz)
102	5510	151	5755
110	5550	159	5795
134	5670		

For 802.11ac (VHT80)			
Channel	Freq.(MHz)	Channel	Freq.(MHz)
42	5210	58	5290

For 802.11ac (VHT80)			
Channel	Freq.(MHz)	Channel	Freq.(MHz)
106	5530	155	5775
122	5610		

3. KDB 662911 D01 Multiple Transmitter Output v02r01
2) Directional Gain Calculations for In-Band Measurements
a) Basic methodology with NANT transmit antennas, each with the same directional gain GA NT dBi, being driven by NANT transmitter outputs of equal power. Directional gain is to be co mputed as follows:
(i) If any transmit signals are correlated with each other,
Directional gain = GANT + 10 log(NANT) dBi
(ii) If all transmit signals are completely uncorrelated with each other,
Directional gain = GANT(Antenna gain)

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Worst Mode	Description	Data Rate
Mode 1	TX IEEE 802.11a HT20 CH36&CH40&CH48	6 Mbps
Mode 2	TX IEEE 802.11a HT20 CH52&CH60&CH64	6 Mbps
Mode 3	TX IEEE 802.11a HT20 CH100&CH116&CH140	6 Mbps
Mode 4	TX IEEE 802.11a HT20 CH149&CH157&CH165	6 Mbps
Mode 5	TX IEEE 802.11n HT20 CH36&CH40&CH48	MCS 0
Mode 6	TX IEEE 802.11ac VHT20 CH36&CH40&CH48	NSS1 MCS0
Mode 7	TX IEEE 802.11n HT20 CH52&CH60&CH64	MCS 0
Mode 8	TX IEEE 802.11ac VHT20 CH52&CH60&CH64	NSS1 MCS0
Mode 9	TX IEEE 802.11n HT20 CH100&CH116&CH140	MCS 0
Mode 10	TX IEEE 802.11ac VHT20 CH100&CH116&CH140	NSS1 MCS0
Mode 11	TX IEEE 802.11n HT20 CH149&CH157&CH165	MCS 0
Mode 12	TX IEEE 802.11ac VHT20 CH149&CH157&CH165	NSS1 MCS0
Mode 13	TX IEEE 802.11n HT40 CH38&CH46	MCS 0
Mode 14	TX IEEE 802.11ac VHT40 CH38&CH46	NSS1 MCS0
Mode 15	TX IEEE 802.11n HT40 CH54 &CH62	MCS 0
Mode 16	TX IEEE 802.11ac VHT40 CH54 &CH62	NSS1 MCS0
Mode 17	TX IEEE 802.11n HT40 CH102&CH110&CH134	MCS 0
Mode 18	TX IEEE 802.11ac VHT40 CH102&CH110&CH134	NSS1 MCS0
Mode 19	TX IEEE 802.11n HT40 CH151&CH159	MCS 0
Mode 20	TX IEEE 802.11ac VHT40 CH151&CH159	NSS1 MCS0
Mode 21	TX IEEE 802.11ac VHT80 CH42	NSS1 MCS0
Mode 22	TX IEEE 802.11ac VHT80 CH58	NSS1 MCS0
Mode 23	TX IEEE 802.11ac VHT80 CH106&122	NSS1 MCS0
Mode 24	TX IEEE 802.11ac VHT80 CH155	NSS1 MCS0

Note: (1) The measurements are performed at the highest, middle, lowest available channels.
(2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.
(3) We have be tested for all avaiable U.S. voltage and frequencies(For 120V,50/60Hz and 240V, 50/60Hz) for which the device is capable of operation.
(4) The battery is fully-charged during the radited and RF conducted test.

AC Conducted Emission

Test Case	
AC Conducted Emission	Mode 25: Keeping TX + WLAN Link

2.3 TEST SOFTWARE AND POWER LEVEL

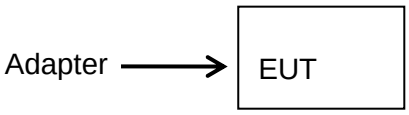
During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

RF Function	Type	Mode or Modulation	Power Class	Software For Testing
5G WIFI	OFDM	802.11a	24	Engineering mode
		802.11 n20	24	
		802.11 n40	24	
		802.11ac 20	24	
		802.11ac 40	24	
		802.11ac 80	24	

2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious EmissionTest

Conducted Emission Test



2.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Note
E-1	Adapter	MIRO	QZ-02002AC00	N/A

Item	Shielded Type	Ferrite Core	Length	Note
C-1	Unshielded	NO	100cm	(1)&(2)

Note:

(1) For detachable type I/O cable should be specified the length in cm in『Length』column.

(2) “YES” is means “with core”; “NO” is means “without core”.

2.6 EQUIPMENTS LIST

RF Radiation Test Equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
Temperature & Humidity	SW-108	SuWei	N/A	2025.02.24	2026.02.23
Pre-Amplifier(0.1 M-3GHz)	EM	EM330	060665	2025.02.22	2026.02.21
Pre-Amplifier(1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2024.09.23	2025.09.22
Pre-Amplifier(18 G-40GHz)	SKET	LNPA_1840-50	SK2018101801	2025.02.22	2026.02.21
Active loop Antenna	ZHINAN	ZN30900C	16035	2025.02.25	2026.02.24
Bilog Antenna	TESEQ	CBL6111D	34678	2024.09.30	2025.09.29
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2023.09.24	2025.09.23
Horn Antenna	A-INFOMW	LB-180400-KF	J211020657	2023.10.10	2025.10.09
Positioning Controller	MF	MF-7802	MF-780208587	N/A	N/A
Signal Analyzer	R&S	FSV 40-N	101823	2024.09.23	2025.09.22
Switch Control Box	N/A	N/A	N/A	N/A	N/A
Filter Box	BALUN Technology	SU319E	BL-SZ1530051	N/A	N/A
Antenna Mast	MF	MFA-440H	N/A	N/A	N/A
Turn Table	MF	SC100_1	60531	N/A	N/A
AC Power Source	APC	KDF-11010G	F214050035	N/A	N/A
DC power supply	HONGSHENGFENG	DPS-305AF	17064939	2024.09.23	2025.09.22
Test SW	EZ-EMC	Ver.STSLAB-03A1 RE			

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2024.09.24	2025.09.23
Limtter	CYBERTEK	EM5010	N/A	2024.09.24	2025.09.23
LISN	R&S	ENV216	101242	2024.09.24	2025.09.23
LISN	EMCO	3810/2NM	23625	2024.09.24	2025.09.23
Temperature & Humidity	SW-108	SuWei	N/A	2025.02.24	2026.02.23
Test SW	EZ-EMC	Ver.STSLAB-03A1 CE			
RF Connected Test					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Signal Analyzer	Agilent	N9020A	MY51510623	2025.02.22	2026.02.21
Power detector group	Keysight	NW2021031	N/A	2024.09.23	2025.09.22
Switch control box	MW	MW100-RFCB	N/A	N/A	N/A
Programable tempratuce and humidity chamber	JQ	JQ-2000	N/A	2025.02.24	2026.02.23
Temperature & Humidity	SW-108	SuWei	N/A	2025.02.24	2026.02.23
Test SW	TST	TSCB562R2			

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class B (dBuV)		Standard
	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	56.00	46.00	CISPR
5.0 -30.0	60.00	50.00	CISPR

0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

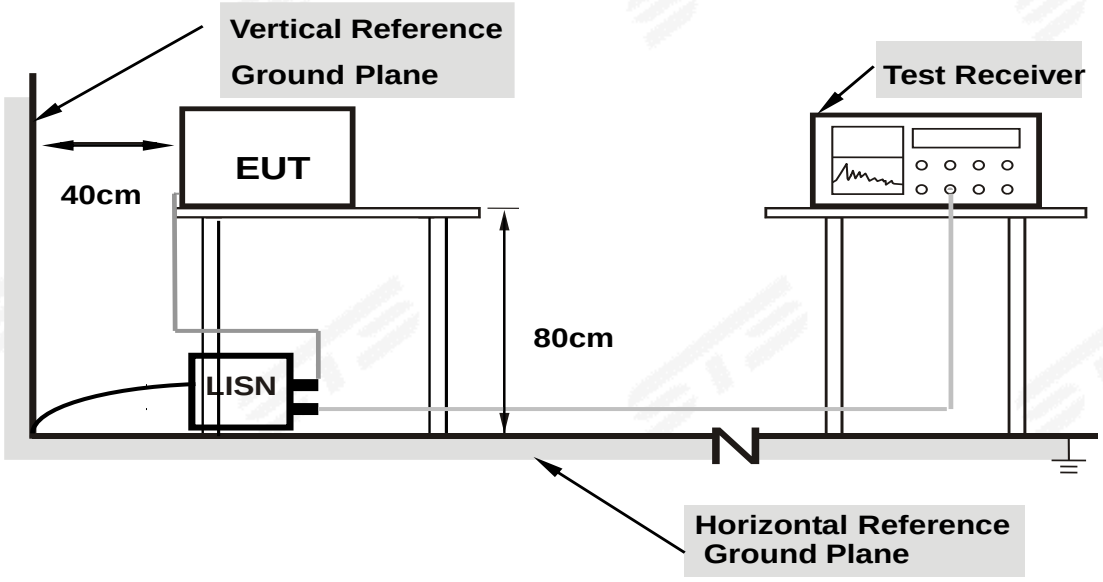
3.1.2 TEST PROCEDURE

a. The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
d. LISN is at least 80 cm from the nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support units.

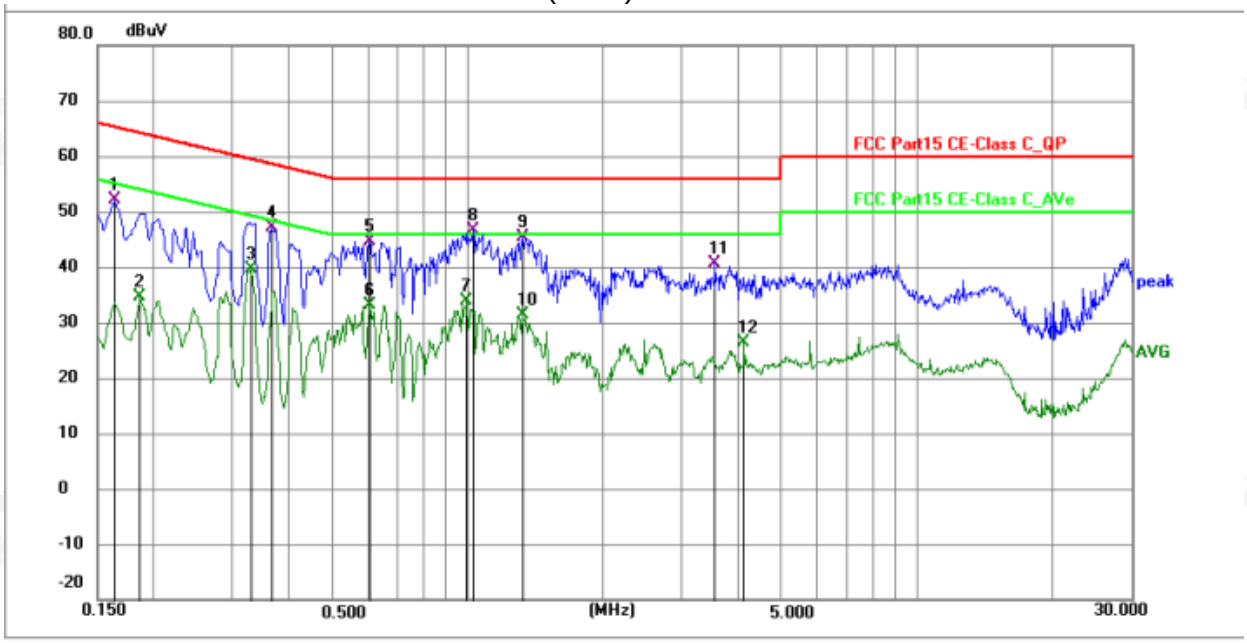
3.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

3.1.6 **TEST RESULT**S

Temperature:	24.8℃	Relative Humidity:	48%
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode：	Mode 25		

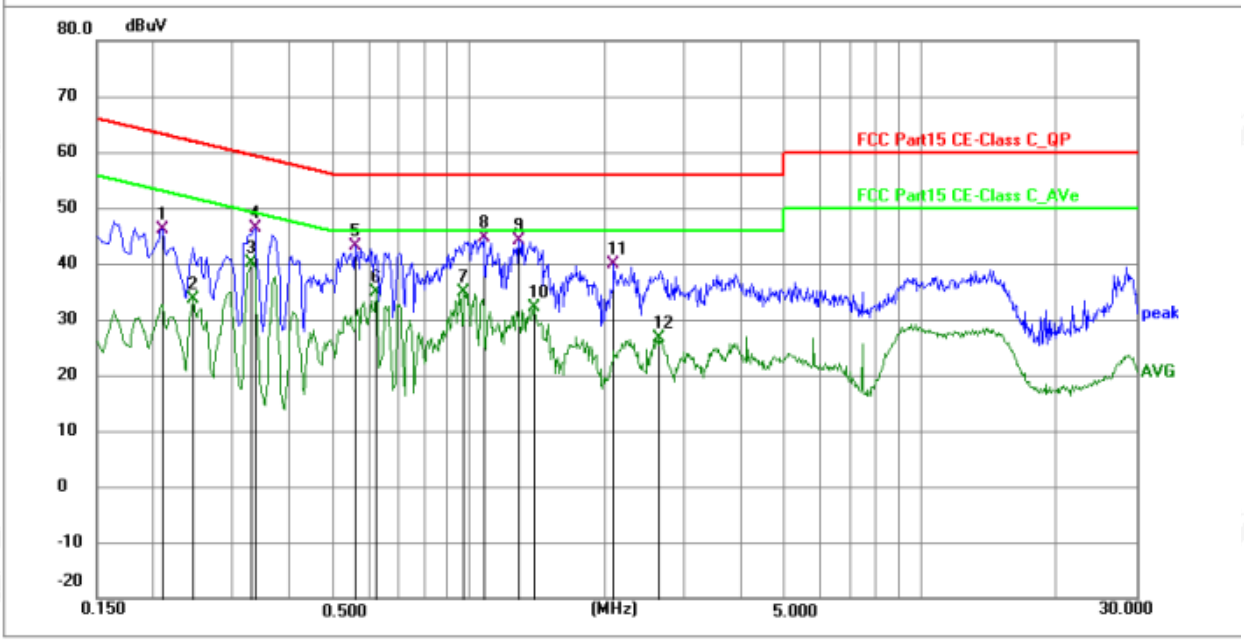
Remark:
1. All readings are Quasi-Peak and Average values
2. Margin = Result (Result =Reading + Factor)–Limit
3. Factor=LISN factor+Cable loss+Limiter (10dB)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1635	41.61	10.48	52.09	65.28	-13.19	QP	P	
2	0.1860	24.06	10.53	34.59	54.21	-19.62	AVG	P	
3	0.3300	29.17	10.57	39.74	49.45	-9.71	AVG	P	
4	0.3660	36.65	10.57	47.22	58.59	-11.37	QP	P	
5	0.6045	33.90	10.63	44.53	56.00	-11.47	QP	P	
6	0.6045	22.49	10.63	33.12	46.00	-12.88	AVG	P	
7	0.9960	23.15	10.66	33.81	46.00	-12.19	AVG	P	
8 *	1.0275	36.01	10.66	46.67	56.00	-9.33	QP	P	
9	1.3290	34.74	10.66	45.40	56.00	-10.60	QP	P	
10	1.3290	20.73	10.66	31.39	46.00	-14.61	AVG	P	
11	3.5610	29.94	10.64	40.58	56.00	-15.42	QP	P	
12	4.1280	15.62	10.69	26.31	46.00	-19.69	AVG	P	

Temperature:	24.8℃	Relative Humidity:	48%
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode：	Mode 25		

Remark:
1. All readings are Quasi-Peak and Average values
2. Margin = Result (Result =Reading + Factor)–Limit
3. Factor=LISN factor+Cable loss+Limiter (10dB)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.2084	35.58	10.56	46.14	63.27	-17.13	QP	P	
2	0.2444	22.98	10.56	33.54	51.95	-18.41	AVG	P	
3 *	0.3300	29.56	10.57	40.13	49.45	-9.32	AVG	P	
4	0.3345	35.84	10.57	46.41	59.34	-12.93	QP	P	
5	0.5594	32.41	10.61	43.02	56.00	-12.98	QP	P	
6	0.6225	24.36	10.64	35.00	46.00	-11.00	AVG	P	
7	0.9780	24.19	10.66	34.85	46.00	-11.15	AVG	P	
8	1.0770	33.89	10.66	44.55	56.00	-11.45	QP	P	
9	1.2930	33.35	10.66	44.01	56.00	-11.99	QP	P	
10	1.3920	21.43	10.66	32.09	46.00	-13.91	AVG	P	
11	2.0895	29.20	10.68	39.88	56.00	-16.12	QP	P	
12	2.6250	16.01	10.67	26.68	46.00	-19.32	AVG	P	

3.2 RADIATED EMISSION AND (BANDEDGE) MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

In case the emission fall within the restricted band specified on 15.407(b)7&15.205/209(a), then the limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	68.2	54

Notes:

(1) The limit for radiated test was performed according to FCC PART 15E.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

LIMITS OF RESTRICTED FREQUENCY BANDS

FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (GHz)
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			

Note: In case the emission radiated emission above 1000MHz fall within the restricted band the restricted frequency bands, the peak limit is 74 dBuV/m.

LIMITS OF EMISSIONS OUTSIDE OF THE FREQUENCY BANDS

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(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.

Note: dBuV/m(at 3M) = EIRP(dBm) + 95.2.

Peak Limit = -27dBm/MHz + 95.2 = 68.2 dBuV/m.

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak
Start Frequency	1000 MHz(Peak/AV)
Stop Frequency	10th carrier harmonic (Peak/AV)
RB / VB (emission in restricted band)	1 MHz / 1 MHz, AV=1 MHz /3 MHz

For Band edge

Spectrum Parameter	Setting
Detector	Peak
RB / VB (emission in restricted band)	1 MHz / 1 MHz, AV=1 MHz /3 MHz

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

3.2.2 TEST PROCEDURE

a. The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
b. The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
c. The height of the equipment shall be 0.8 m (above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarization of the antenna are set to make the measurement.
d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and QuasiPeak detector mode will be re-measured.
e. If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and no additional QP Mode measurement was performed.
f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

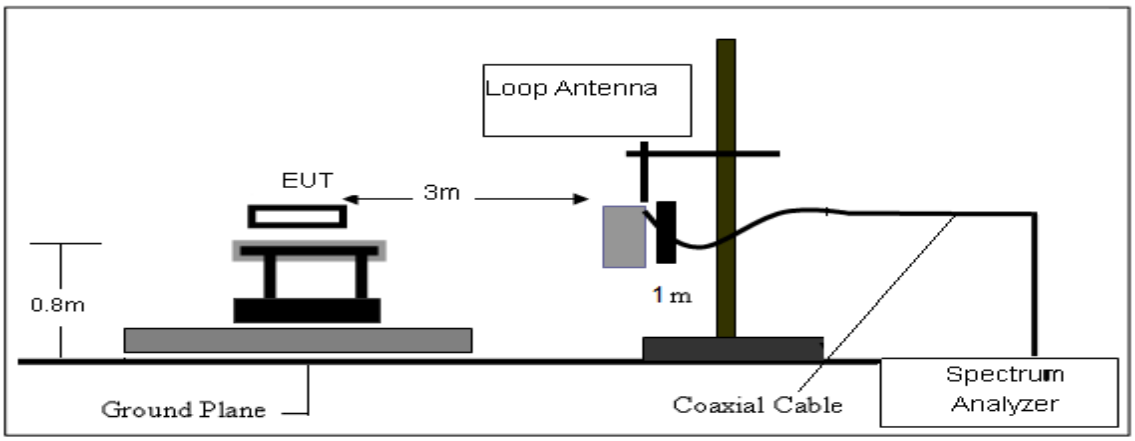
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

3.2.2 DEVIATION FROM TEST STANDARD

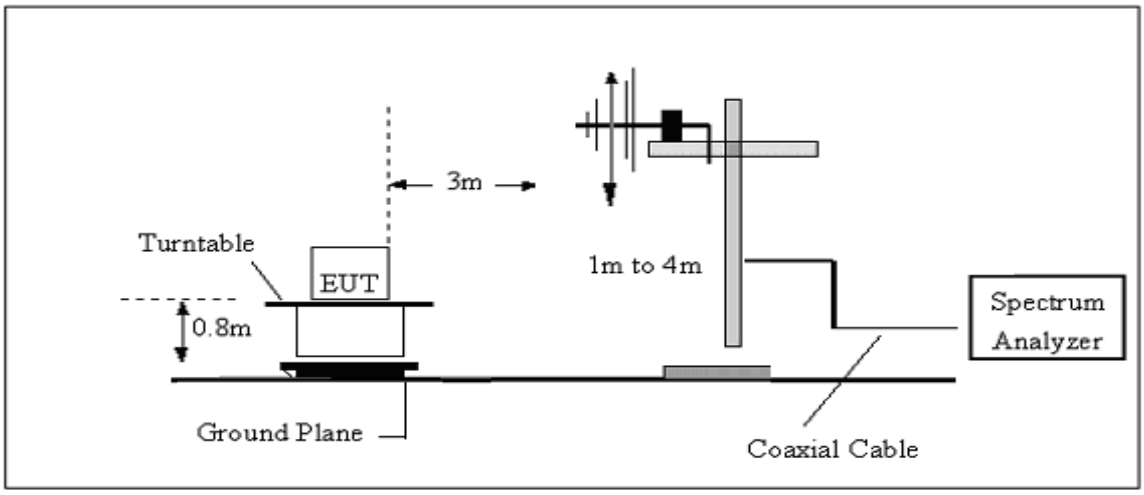
No deviation

3.2.3 TEST SETUP

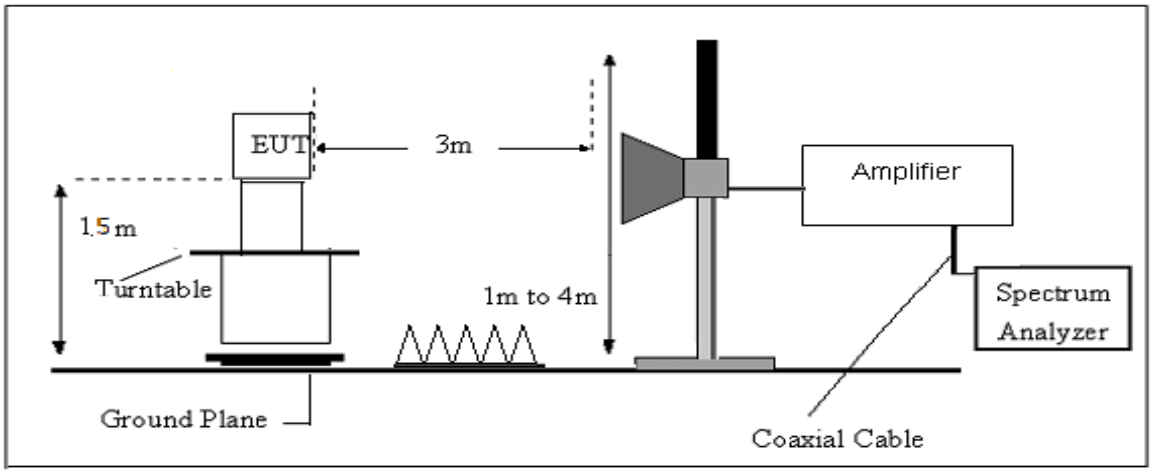
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



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



3.2.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

3.2.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:
FS = RA + AF + CL - AG
Where
FS = Field Strength
CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude
AG = Amplifier Gain
AF = Antenna Factor
For example

Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dBμV/m)	(dBμV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

Factor=AF+CL-AG

3.2.6 TEST RESULTS (Between 9KHz – 30 MHz)

Temperature:	24.5℃	Relative Humidtity:	46%
Test Voltage:	DC3.87V	Polarization :	--
Test Mode:	TX Mode		

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	PASS
--	--	--	--	PASS

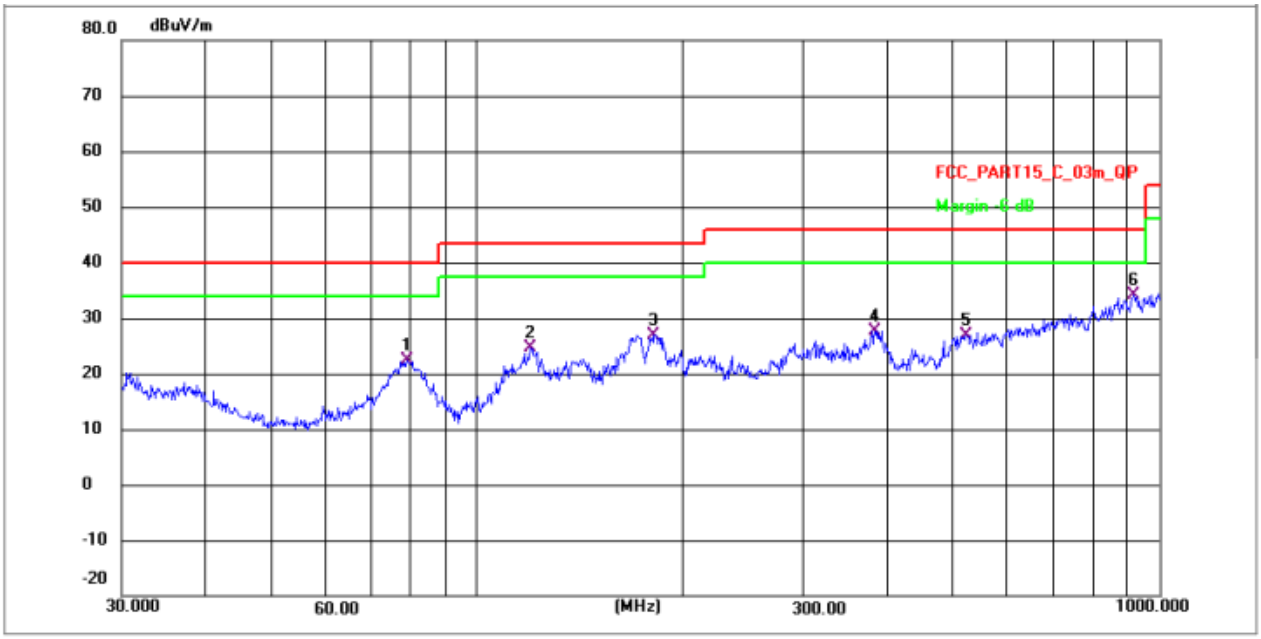
Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
Distance extrapolation factor =40 log (specific distance/test distance)(dB);
Limit line = specific limits(dBuv) + distance extrapolation factor.

3.2.7 TEST RESULTS (Between 30MHz – 1GHz)

Temperature	24.5℃	Relative Humidity:	46%
Test Voltage	DC3.87V	Phase:	Horizontal
Test Mode	Mode 1/2/3/4/5/6/7/8/9/10/11/12/13/14/15/16/17/18/19/20/21/22/23/24 (Mode 9 worst mode)		

Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain

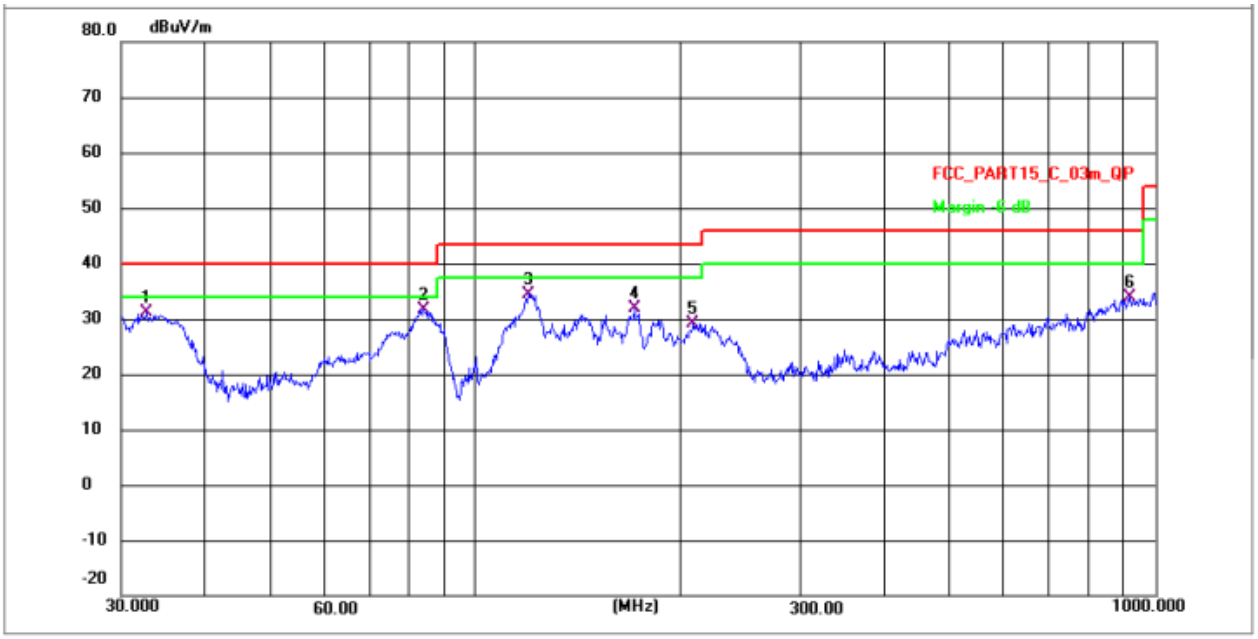


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	78.9652	31.65	-9.28	22.37	40.00	-17.63	QP	P
2	119.6457	47.01	-22.29	24.72	43.50	-18.78	QP	P
3	181.9202	48.59	-21.72	26.87	43.50	-16.63	QP	P
4	383.2593	47.67	-19.97	27.70	46.00	-18.30	QP	P
5	520.8882	45.78	-18.85	26.93	46.00	-19.07	QP	P
6 *	919.2866	50.21	-16.10	34.11	46.00	-11.89	QP	P

Temperature	24.5℃	Relative Humidity:	46%
Test Voltage	DC3.87V	Polarization:	Vertical
Test Mode	Mode 1/2/3/4/5/6/7/8/9/10/11/12/13/14/15/16/17/18/19/20/21/22/23/24 (Mode 9 worst mode)		

Remark:

3. Margin = Result (Result =Reading + Factor)–Limit
4. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	32.7486	40.79	-9.69	31.10	40.00	-8.90	QP	P
2 *	83.5222	54.41	-22.72	31.69	40.00	-8.31	QP	P
3	119.4361	56.59	-22.29	34.30	43.50	-9.20	QP	P
4	170.7926	53.58	-21.81	31.77	43.50	-11.73	QP	P
5	208.9463	50.51	-21.45	29.06	43.50	-14.44	QP	P
6	917.6762	50.03	-16.11	33.92	46.00	-12.08	QP	P

3.2.8 TEST RESULTS (Above 1000 MHz)

U-NII-1 5150-5250MHz

Frequency (MHz)	Meter Reading (dBμV)	Amplifier (dB)	Loss (dB)	Antenna Factor (dB/m)	Corrected Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type	Comment
Low Channel (802.11a/5180 MHz)										
7769.59	62.25	43.50	11.60	36.20	4.30	66.55	74.00	-7.45	PK	Vertical
7769.59	41.98	43.50	11.60	36.20	4.30	46.28	54.00	-7.72	AV	Vertical
7769.67	53.08	43.50	11.60	36.20	4.30	57.38	74.00	-16.62	PK	Horizontal
7769.67	42.23	43.50	11.60	36.20	4.30	46.53	54.00	-7.47	AV	Horizontal
10359.78	49.63	42.10	12.40	37.62	7.92	57.55	74.00	-16.45	PK	Vertical
10359.78	40.95	42.10	12.40	37.62	7.92	48.87	54.00	-5.13	AV	Vertical
11913.78	50.53	42.10	12.40	37.62	7.92	58.45	74.00	-15.55	PK	Horizontal
11913.78	40.72	42.10	12.40	37.62	7.92	48.64	54.00	-5.36	AV	Horizontal
12949.73	40.20	40.20	12.80	38.62	11.22	51.42	74.00	-22.58	PK	Vertical
12949.73	30.77	40.20	12.80	38.62	11.22	41.99	54.00	-12.01	AV	Vertical
12949.72	38.70	40.20	12.80	38.62	11.22	49.92	74.00	-24.08	PK	Horizontal
12949.72	30.85	40.20	12.80	38.62	11.22	42.07	54.00	-11.93	AV	Horizontal
15539.72	45.73	38.50	13.31	39.28	14.09	59.82	74.00	-14.18	PK	Vertical
15539.72	36.19	38.50	13.31	39.28	14.09	50.28	54.00	-3.72	AV	Vertical
15539.60	45.13	38.50	13.31	39.28	14.09	59.22	74.00	-14.78	PK	Horizontal
15539.60	36.28	38.50	13.31	39.28	14.09	50.37	54.00	-3.63	AV	Horizontal
Middle Channel (802.11a/5200 MHz)										
7799.78	53.31	43.50	11.60	36.20	4.30	57.61	74.00	-16.39	PK	Vertical
7799.78	41.37	43.50	11.60	36.20	4.30	45.67	54.00	-8.33	AV	Vertical
7799.78	52.70	43.50	11.60	36.20	4.30	57.00	74.00	-17.00	PK	Horizontal
7799.78	41.45	43.50	11.60	36.20	4.30	45.75	54.00	-8.25	AV	Horizontal
10399.74	50.36	42.10	12.40	37.62	7.92	58.28	74.00	-15.72	PK	Vertical
10399.74	41.09	42.10	12.40	37.62	7.92	49.01	54.00	-4.99	AV	Vertical
4824.56	50.35	42.10	12.40	37.62	7.92	58.27	74.00	-15.73	PK	Horizontal
4824.56	41.82	42.10	12.40	37.62	7.92	49.74	54.00	-4.26	AV	Horizontal
12999.54	40.54	40.20	12.80	38.62	11.22	51.76	74.00	-22.24	PK	Vertical
12999.54	31.14	40.20	12.80	38.62	11.22	42.36	54.00	-11.64	AV	Vertical
12999.68	39.28	40.20	12.80	38.62	11.22	50.50	74.00	-23.50	PK	Horizontal
12999.68	30.74	40.20	12.80	38.62	11.22	41.96	54.00	-12.04	AV	Horizontal
15599.56	46.40	38.50	13.31	39.28	14.09	60.49	74.00	-13.51	PK	Vertical
15599.56	36.28	38.50	13.31	39.28	14.09	50.37	54.00	-3.63	AV	Vertical
15599.70	45.59	38.50	13.31	39.28	14.09	59.68	74.00	-14.32	PK	Horizontal
15599.70	34.44	38.50	13.31	39.28	14.09	48.53	54.00	-5.47	AV	Horizontal

High Channel (802.11a/5240 MHz)										
7859.72	52.58	43.50	11.60	36.20	4.30	56.88	74.00	-17.12	PK	Vertical
7859.72	43.02	43.50	11.60	36.20	4.30	47.32	54.00	-6.68	AV	Vertical
7859.77	53.17	43.50	11.60	36.20	4.30	57.47	74.00	-16.53	PK	Horizontal
7859.77	42.24	43.50	11.60	36.20	4.30	46.54	54.00	-7.46	AV	Horizontal
10479.74	49.97	42.10	12.40	37.62	7.92	57.89	74.00	-16.11	PK	Vertical
10479.74	41.32	42.10	12.40	37.62	7.92	49.24	54.00	-4.76	AV	Vertical
4824.53	50.66	42.10	12.40	37.62	7.92	58.58	74.00	-15.42	PK	Horizontal
4824.53	41.00	42.10	12.40	37.62	7.92	48.92	54.00	-5.08	AV	Horizontal
13099.50	40.78	40.20	12.80	38.62	11.22	52.00	74.00	-22.00	PK	Vertical
13099.50	31.17	40.20	12.80	38.62	11.22	42.39	54.00	-11.61	AV	Vertical
13099.60	39.57	40.20	12.80	38.62	11.22	50.79	74.00	-23.21	PK	Horizontal
13099.60	30.22	40.20	12.80	38.62	11.22	41.44	54.00	-12.56	AV	Horizontal
15719.53	46.22	38.50	13.31	39.28	14.09	60.31	74.00	-13.69	PK	Vertical
15719.53	35.38	38.50	13.31	39.28	14.09	49.47	54.00	-4.53	AV	Vertical
15719.61	46.24	38.50	13.31	39.28	14.09	60.33	74.00	-13.67	PK	Horizontal
15719.61	36.45	38.50	13.31	39.28	14.09	50.54	54.00	-3.46	AV	Horizontal

Remark:
1.Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. All modes have been measurement, only worst mode was reported.
3. The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.

U-NII-2A 5250-5350MHz

Frequency (MHz)	Meter Reading (dBμV)	Amplifier (dB)	Loss (dB)	Antenna Factor (dB/m)	Corrected Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type	Comment
Low Channel (802.11a/55260 MHz)										
7889.57	62.49	43.70	11.70	36.20	4.20	66.69	74.00	-7.31	PK	Vertical
7889.57	41.70	43.70	11.70	36.20	4.20	45.90	54.00	-8.10	AV	Vertical
7889.80	53.73	43.70	11.70	36.20	4.20	57.93	74.00	-16.07	PK	Horizontal
7889.80	41.77	43.70	11.70	36.20	4.20	45.97	54.00	-8.03	AV	Horizontal
10519.74	50.27	41.80	12.50	37.62	8.32	58.59	74.00	-15.41	PK	Vertical
10519.74	41.59	41.80	12.50	37.62	8.32	49.91	54.00	-4.09	AV	Vertical
12097.64	50.13	41.80	12.50	37.62	8.32	58.45	74.00	-15.55	PK	Horizontal
12097.64	41.74	41.80	12.50	37.62	8.32	50.06	54.00	-3.94	AV	Horizontal
13149.68	40.08	40.10	13.00	38.62	11.52	51.60	74.00	-22.40	PK	Vertical
13149.68	31.81	40.10	13.00	38.62	11.52	43.33	54.00	-10.67	AV	Vertical
13149.74	39.19	40.10	13.00	38.62	11.52	50.71	74.00	-23.29	PK	Horizontal
13149.74	29.96	40.10	13.00	38.62	11.52	41.48	54.00	-12.52	AV	Horizontal
15779.56	46.04	38.10	13.45	39.28	14.63	60.67	74.00	-13.33	PK	Vertical
15779.56	36.43	38.10	13.45	39.28	14.63	51.06	54.00	-2.94	AV	Vertical
15779.59	45.09	38.10	13.45	39.28	14.63	59.72	74.00	-14.28	PK	Horizontal
15779.59	34.99	38.10	13.45	39.28	14.63	49.62	54.00	-4.38	AV	Horizontal
Middle Channel (802.11a/5280 MHz)										
7799.73	52.70	43.70	11.70	36.20	4.20	56.90	74.00	-17.10	PK	Vertical
7799.73	42.87	43.70	11.70	36.20	4.20	47.07	54.00	-6.93	AV	Vertical
7799.57	53.49	43.70	11.70	36.20	4.20	57.69	74.00	-16.31	PK	Horizontal
7799.57	41.43	43.70	11.70	36.20	4.20	45.63	54.00	-8.37	AV	Horizontal
10399.76	51.04	41.80	12.50	37.62	8.32	59.36	74.00	-14.64	PK	Vertical
10399.76	41.03	41.80	12.50	37.62	8.32	49.35	54.00	-4.65	AV	Vertical
4824.36	51.10	41.80	12.50	37.62	8.32	59.42	74.00	-14.58	PK	Horizontal
4824.36	41.64	41.80	12.50	37.62	8.32	49.96	54.00	-4.04	AV	Horizontal
12999.75	40.85	40.10	13.00	38.62	11.52	52.37	74.00	-21.63	PK	Vertical
12999.75	30.53	40.10	13.00	38.62	11.52	42.05	54.00	-11.95	AV	Vertical
12999.52	39.51	40.10	13.00	38.62	11.52	51.03	74.00	-22.97	PK	Horizontal
12999.52	30.39	40.10	13.00	38.62	11.52	41.91	54.00	-12.09	AV	Horizontal
15599.71	45.10	38.10	13.45	39.28	14.63	59.73	74.00	-14.27	PK	Vertical
15599.71	36.46	38.10	13.45	39.28	14.63	51.09	54.00	-2.91	AV	Vertical
15599.50	46.16	38.10	13.45	39.28	14.63	60.79	74.00	-13.21	PK	Horizontal
15599.50	33.59	38.10	13.45	39.28	14.63	48.22	54.00	-5.78	AV	Horizontal
High Channel (802.11a/5320 MHz)										
7859.50	52.63	43.70	11.70	36.20	4.20	56.83	74.00	-17.17	PK	Vertical

7859.50	42.55	43.70	11.70	36.20	4.20	46.75	54.00	-7.25	AV	Vertical
7859.57	52.49	43.70	11.70	36.20	4.20	56.69	74.00	-17.31	PK	Horizontal
7859.57	42.11	43.70	11.70	36.20	4.20	46.31	54.00	-7.69	AV	Horizontal
10479.66	50.31	41.80	12.50	37.62	8.32	58.63	74.00	-15.37	PK	Vertical
10479.66	41.29	41.80	12.50	37.62	8.32	49.61	54.00	-4.39	AV	Vertical
4824.47	50.97	41.80	12.50	37.62	8.32	59.29	74.00	-14.71	PK	Horizontal
4824.47	41.98	41.80	12.50	37.62	8.32	50.30	54.00	-3.70	AV	Horizontal
13099.75	40.21	40.10	13.00	38.62	11.52	51.73	74.00	-22.27	PK	Vertical
13099.75	31.56	40.10	13.00	38.62	11.52	43.08	54.00	-10.92	AV	Vertical
13099.54	39.43	40.10	13.00	38.62	11.52	50.95	74.00	-23.05	PK	Horizontal
13099.54	30.02	40.10	13.00	38.62	11.52	41.54	54.00	-12.46	AV	Horizontal
15719.65	45.17	38.10	13.45	39.28	14.63	59.80	74.00	-14.20	PK	Vertical
15719.65	36.18	38.10	13.45	39.28	14.63	50.81	54.00	-3.19	AV	Vertical
15719.53	45.86	38.10	13.45	39.28	14.63	60.49	74.00	-13.51	PK	Horizontal
15719.53	36.33	38.10	13.45	39.28	14.63	50.96	54.00	-3.04	AV	Horizontal

Remark:
1.Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. All modes have been measurement, only worst mode was reported.
3. The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.

U-NII-2C 5470-5725MHz

Frequency (MHz)	Meter Reading (dBμV)	Amplifier (dB)	Loss (dB)	Antenna Factor (dB/m)	Corrected Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type	Comment
Low Channel (802.11a/5500 MHz)										
8249.60	61.50	43.50	11.80	36.40	4.70	66.20	74.00	-7.80	PK	Vertical
8249.60	41.55	43.50	11.80	36.40	4.70	46.25	54.00	-7.75	AV	Vertical
8249.72	52.84	43.50	11.80	36.40	4.70	57.54	74.00	-16.46	PK	Horizontal
8249.72	41.99	43.50	11.80	36.40	4.70	46.69	54.00	-7.31	AV	Horizontal
10999.80	50.26	41.60	12.70	37.71	8.81	59.07	74.00	-14.93	PK	Vertical
10999.80	41.78	41.60	12.70	37.71	8.81	50.59	54.00	-3.41	AV	Vertical
12649.58	50.90	41.60	12.70	37.71	8.81	59.71	74.00	-14.29	PK	Horizontal
12649.58	41.20	41.60	12.70	37.71	8.81	50.01	54.00	-3.99	AV	Horizontal
13749.74	40.85	39.80	13.20	38.80	12.20	53.05	74.00	-20.95	PK	Vertical
13749.74	31.58	39.80	13.20	38.80	12.20	43.78	54.00	-10.22	AV	Vertical
13749.66	39.52	39.80	13.20	38.80	12.20	51.72	74.00	-22.28	PK	Horizontal
13749.66	29.61	39.80	13.20	38.80	12.20	41.81	54.00	-12.19	AV	Horizontal
16499.68	45.31	37.90	13.70	40.10	15.90	61.21	74.00	-12.79	PK	Vertical
16499.68	35.81	37.90	13.70	40.10	15.90	51.71	54.00	-2.29	AV	Vertical
16499.72	45.62	37.90	13.70	40.10	15.90	61.52	74.00	-12.48	PK	Horizontal
16499.72	35.03	37.90	13.70	40.10	15.90	50.93	54.00	-3.07	AV	Horizontal
Middle Channel (802.11a/5580 MHz)										
7799.76	52.62	43.50	11.80	36.40	4.70	57.32	74.00	-16.68	PK	Vertical
7799.76	42.54	43.50	11.80	36.40	4.70	47.24	54.00	-6.76	AV	Vertical
7799.53	52.55	43.50	11.80	36.40	4.70	57.25	74.00	-16.75	PK	Horizontal
7799.53	41.90	43.50	11.80	36.40	4.70	46.60	54.00	-7.40	AV	Horizontal
10399.67	50.76	41.60	12.70	37.71	8.81	59.57	74.00	-14.43	PK	Vertical
10399.67	41.33	41.60	12.70	37.71	8.81	50.14	54.00	-3.86	AV	Vertical
4824.55	50.79	41.60	12.70	37.71	8.81	59.60	74.00	-14.40	PK	Horizontal
4824.55	40.74	41.60	12.70	37.71	8.81	49.55	54.00	-4.45	AV	Horizontal
12999.79	39.51	39.80	13.20	38.80	12.20	51.71	74.00	-22.29	PK	Vertical
12999.79	31.64	39.80	13.20	38.80	12.20	43.84	54.00	-10.16	AV	Vertical
12999.50	38.98	39.80	13.20	38.80	12.20	51.18	74.00	-22.82	PK	Horizontal
12999.50	30.57	39.80	13.20	38.80	12.20	42.77	54.00	-11.23	AV	Horizontal
15599.65	46.51	37.90	13.70	40.10	15.90	62.41	74.00	-11.59	PK	Vertical
15599.65	36.43	37.90	13.70	40.10	15.90	52.33	54.00	-1.67	AV	Vertical
15599.58	46.00	37.90	13.70	40.10	15.90	61.90	74.00	-12.10	PK	Horizontal
15599.58	33.60	37.90	13.70	40.10	15.90	49.50	54.00	-4.50	AV	Horizontal
High Channel (802.11a/5700 MHz)										
7859.52	53.14	43.50	11.80	36.40	4.70	57.84	74.00	-16.16	PK	Vertical

7859.52	41.71	43.50	11.80	36.40	4.70	46.41	54.00	-7.59	AV	Vertical
7859.80	53.24	43.50	11.80	36.40	4.70	57.94	74.00	-16.06	PK	Horizontal
7859.80	41.87	43.50	11.80	36.40	4.70	46.57	54.00	-7.43	AV	Horizontal
10479.66	50.85	41.60	12.70	37.71	8.81	59.66	74.00	-14.34	PK	Vertical
10479.66	41.72	41.60	12.70	37.71	8.81	50.53	54.00	-3.47	AV	Vertical
4824.37	51.12	41.60	12.70	37.71	8.81	59.93	74.00	-14.07	PK	Horizontal
4824.37	40.75	41.60	12.70	37.71	8.81	49.56	54.00	-4.44	AV	Horizontal
13099.75	40.15	39.80	13.20	38.80	12.20	52.35	74.00	-21.65	PK	Vertical
13099.75	31.57	39.80	13.20	38.80	12.20	43.77	54.00	-10.23	AV	Vertical
13099.52	38.80	39.80	13.20	38.80	12.20	51.00	74.00	-23.00	PK	Horizontal
13099.52	29.55	39.80	13.20	38.80	12.20	41.75	54.00	-12.25	AV	Horizontal
15719.71	45.59	37.90	13.70	40.10	15.90	61.49	74.00	-12.51	PK	Vertical
15719.71	36.44	37.90	13.70	40.10	15.90	52.34	54.00	-1.66	AV	Vertical
15719.77	45.39	37.90	13.70	40.10	15.90	61.29	74.00	-12.71	PK	Horizontal
15719.77	34.96	37.90	13.70	40.10	15.90	50.86	54.00	-3.14	AV	Horizontal

Remark:
1.Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. All modes have been measurement, only worst mode was reported.
3. The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.

U-NII-3 (5.725-5.850) GHz

Frequency (MHz)	Meter Reading (dBμV)	Amplifier (dB)	Loss (dB)	Antenna Factor (dB/m)	Corrected Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type	Comment
Low Channel (802.11a/5745 MHz)										
8249.63	62.25	43.20	11.85	36.60	5.25	67.50	74.00	-6.50	PK	Vertical
8249.63	43.01	43.20	11.85	36.60	5.25	48.26	54.00	-5.74	AV	Vertical
8249.67	52.93	43.20	11.85	36.60	5.25	58.18	74.00	-15.82	PK	Horizontal
8249.67	41.91	43.20	11.85	36.60	5.25	47.16	54.00	-6.84	AV	Horizontal
10999.54	49.72	41.40	12.80	37.86	9.26	58.98	74.00	-15.02	PK	Vertical
10999.54	42.06	41.40	12.80	37.86	9.26	51.32	54.00	-2.68	AV	Vertical
12649.64	50.53	41.40	12.80	37.86	9.26	59.79	74.00	-14.21	PK	Horizontal
12649.64	41.70	41.40	12.80	37.86	9.26	50.96	54.00	-3.04	AV	Horizontal
13749.78	40.25	39.70	13.40	38.95	12.65	52.90	74.00	-21.10	PK	Vertical
13749.78	31.77	39.70	13.40	38.95	12.65	44.42	54.00	-9.58	AV	Vertical
13749.80	39.58	39.70	13.40	38.95	12.65	52.23	74.00	-21.77	PK	Horizontal
13749.80	29.54	39.70	13.40	38.95	12.65	42.19	54.00	-11.81	AV	Horizontal
16499.74	46.15	37.75	13.90	40.30	16.45	62.60	74.00	-11.40	PK	Vertical
16499.74	35.26	37.75	13.90	40.30	16.45	51.71	54.00	-2.29	AV	Vertical
16499.70	45.07	37.75	13.90	40.30	16.45	61.52	74.00	-12.48	PK	Horizontal
16499.70	35.74	37.75	13.90	40.30	16.45	52.19	54.00	-1.81	AV	Horizontal
Middle Channel (802.11a/5785 MHz)										
7799.61	52.72	43.20	11.85	36.60	5.25	57.97	74.00	-16.03	PK	Vertical
7799.61	42.39	43.20	11.85	36.60	5.25	47.64	54.00	-6.36	AV	Vertical
7799.63	52.31	43.20	11.85	36.60	5.25	57.56	74.00	-16.44	PK	Horizontal
7799.63	41.76	43.20	11.85	36.60	5.25	47.01	54.00	-6.99	AV	Horizontal
10399.69	50.68	41.40	12.80	37.86	9.26	59.94	74.00	-14.06	PK	Vertical
10399.69	41.06	41.40	12.80	37.86	9.26	50.32	54.00	-3.68	AV	Vertical
4824.52	51.09	41.40	12.80	37.86	9.26	60.35	74.00	-13.65	PK	Horizontal
4824.52	40.62	41.40	12.80	37.86	9.26	49.88	54.00	-4.12	AV	Horizontal
12999.53	39.76	39.70	13.40	38.95	12.65	52.41	74.00	-21.59	PK	Vertical
12999.53	31.89	39.70	13.40	38.95	12.65	44.54	54.00	-9.46	AV	Vertical
12999.74	39.47	39.70	13.40	38.95	12.65	52.12	74.00	-21.88	PK	Horizontal
12999.74	30.37	39.70	13.40	38.95	12.65	43.02	54.00	-10.98	AV	Horizontal
15599.76	45.12	37.75	13.90	40.30	16.45	61.57	74.00	-12.43	PK	Vertical
15599.76	35.60	37.75	13.90	40.30	16.45	52.05	54.00	-1.95	AV	Vertical
15599.79	46.48	37.75	13.90	40.30	16.45	62.93	74.00	-11.07	PK	Horizontal
15599.79	33.33	37.75	13.90	40.30	16.45	49.78	54.00	-4.22	AV	Horizontal
High Channel (802.11a/5825 MHz)										
7859.70	53.75	43.20	11.85	36.60	5.25	59.00	74.00	-15.00	PK	Vertical

7859.70	42.72	43.20	11.85	36.60	5.25	47.97	54.00	-6.03	AV	Vertical
7859.51	52.82	43.20	11.85	36.60	5.25	58.07	74.00	-15.93	PK	Horizontal
7859.51	41.97	43.20	11.85	36.60	5.25	47.22	54.00	-6.78	AV	Horizontal
10479.66	51.06	41.40	12.80	37.86	9.26	60.32	74.00	-13.68	PK	Vertical
10479.66	40.66	41.40	12.80	37.86	9.26	49.92	54.00	-4.08	AV	Vertical
4824.51	50.69	41.40	12.80	37.86	9.26	59.95	74.00	-14.05	PK	Horizontal
4824.51	41.31	41.40	12.80	37.86	9.26	50.57	54.00	-3.43	AV	Horizontal
13099.51	40.47	39.70	13.40	38.95	12.65	53.12	74.00	-20.88	PK	Vertical
13099.51	31.20	39.70	13.40	38.95	12.65	43.85	54.00	-10.15	AV	Vertical
13099.77	38.78	39.70	13.40	38.95	12.65	51.43	74.00	-22.57	PK	Horizontal
13099.77	29.56	39.70	13.40	38.95	12.65	42.21	54.00	-11.79	AV	Horizontal
15719.64	45.59	37.75	13.90	40.30	16.45	62.04	74.00	-11.96	PK	Vertical
15719.64	35.24	37.75	13.90	40.30	16.45	51.69	54.00	-2.31	AV	Vertical
15719.73	45.71	37.75	13.90	40.30	16.45	62.16	74.00	-11.84	PK	Horizontal
15719.73	34.42	37.75	13.90	40.30	16.45	50.87	54.00	-3.13	AV	Horizontal

Remark:
1.Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. All modes have been measurement, only worst mode was reported.
3. The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.

3.2.9 RESTRICTED FREQUENCY BANDS AND BAND EDGE

U-NII-1 5150-5250MHz

802.11a-Low

Horizontal

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor (dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5067.24	52.84	-5.89	46.95	74	-27.05	peak
2	5150	50.96	-5.73	45.23	74	-28.77	peak

Vertical

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor (dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5064.25	53.7	-5.9	47.8	74	-26.2	peak
2	5150	55.35	-5.73	49.62	74	-24.38	peak

802.11a-High

Horizontal

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor (dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5350	51.72	-5.23	46.49	74	-27.51	peak
2	5360.8	52.43	-5.23	47.2	74	-26.8	peak

Vertical

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor (dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5350	51.63	-5.23	46.4	74	-27.6	peak
2	5356.25	53.34	-5.23	48.11	74	-25.89	peak

Note:1.Because the peak value is less than the AV limit 54dBuV/m, the AV value is not evaluated.
2.All modes have been measurement, only worst mode was reported.

U-NII-2A 5250-5350MHz

802.11a-Low

Horizontal

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4989.29	53.06	-6.26	46.8	74	-27.2	peak
2	5150	51.37	-5.73	45.64	74	-28.36	peak

Vertical

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5350	52.11	-5.23	46.88	74	-27.12	peak
2	5380.46	52.88	-5.25	47.63	74	-26.37	peak

802.11a-High

Horizontal

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5350	51.52	-5.23	46.29	74	-27.71	peak
2	5393.69	52.96	-5.25	47.71	74	-26.29	peak

Vertical

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5350	52.11	-5.23	46.88	74	-27.12	peak
2	5380.46	52.88	-5.25	47.63	74	-26.37	peak

Note:1.Because the peak value is less than the AV limit 54dBuV/m, the AV value is not evaluated.
2.All modes have been measurement, only worst mode was reported.

U-NII-2C 5470-5725MHz

802.11a-Low

Horizontal

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5460	51.45	-5.11	46.34	68.2	-21.86	peak
2	5470	52	-5.09	46.91	68.2	-21.29	peak

Vertical

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5460	52.23	-5.11	47.12	68.2	-21.08	peak
2	5470	55.9	-5.09	50.81	68.2	-17.39	peak

802.11a-High

Horizontal

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5725	52.66	-4.57	48.09	68.2	-20.11	peak
2	5819.28	52.89	-4.24	48.65	68.2	-19.55	peak

Vertical

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5725	51.81	-4.57	47.24	68.2	-20.96	peak
3	5727.39	51.93	-4.57	47.36	68.2	-20.84	peak

Note:1.Because the peak value is less than the AV limit 54dBuV/m, the AV value is not evaluated.
2.All modes have been measurement, only worst mode was reported.

U-NII-3 (5.725-5.85 GHz)

802.11a-Low

Horizontal

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5623.31	52.47	-4.69	47.78	68.2	-20.42	peak
2	5693.78	52.23	-4.66	47.57	100.58	-53.01	peak
3	5725	62.08	-4.57	57.51	122.2	-64.69	peak
4	5850	50.69	-4.1	46.59	122.2	-75.61	peak
5	5894.45	52.44	-3.9	48.54	97.89	-49.35	peak
6	5939.46	52.11	-3.95	48.16	81.38	-33.22	peak

Vertical

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5628.24	53.65	-4.68	48.97	68.2	-19.23	peak
2	5690.16	52.31	-4.66	47.65	98.36	-50.71	peak
3	5725	77.66	-4.57	73.09	122.2	-49.11	peak
4	5850	50.78	-4.1	46.68	122.2	-75.52	peak
5	5877.34	53.14	-3.98	49.16	104.41	-55.25	peak
6	5920.46	53.17	-3.92	49.25	88.46	-39.21	peak

802.11a-High

Horizontal

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5646.46	52.88	-4.69	48.19	68.2	-20.01	peak
2	5684.56	52.31	-4.67	47.64	93.36	-45.72	peak
3	5725	51.41	-4.57	46.84	122.2	-75.36	peak
4	5850	50.36	-4.1	46.26	122.2	-75.94	peak
5	5882.98	51.94	-3.96	47.98	102.33	-54.35	peak
6	5935.76	53.43	-3.94	49.49	82.91	-33.42	peak

Vertical

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5627.86	52.62	-4.69	47.93	68.2	-20.27	peak
2	5698.46	54.79	-4.66	50.13	103.91	-53.78	peak
3	5725	51.06	-4.57	46.49	122.2	-75.71	peak
4	5850	64.75	-4.1	60.65	122.2	-61.55	peak
5	5866.39	55.73	-4.02	51.71	107.65	-55.94	peak
6	5939.86	53.01	-3.95	49.06	81.24	-32.18	peak

Note:1.Because the peak value is less than the AV limit 54dBuV/m, the AV value is not evaluated.
2.All modes have been measurement, only worst mode was reported.

4. POWER SPECTRAL DENSITY TEST

4.1 LIMIT

1. For mobile and portable client devices in the 5.15-5.25 GHz band, , the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
2. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
3. For the band 5.725-5.850 GHz, the peak power spectral density shall not exceed 30 dBm in any 500KHz band. If transmitting antenna directional gain is greater than 6 dBi, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

4.2 TEST PROCEDURE

1. The setting follows Method SA-1 of FCC KDB 789033 D02 General U-NII Test Procedures New Rules v02r01.

For devices operating in the band, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (*i.e.,* 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

a) Set RBW ≥ 1/*T*, where *T* is defined in section II.B.l.a).

b) Set VBW ≥ 3 RBW.

c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10 log (500kHz/RBW) to the measured result, whereas RBW (< 500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.

d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add 10 log (1MHz/RBW) to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.

e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 kHz for the sections5.c) and 5.d) above, since RBW=100 KHZ is available on nearly all spectrum analyzers.

4.3 DEVIATION FROM STANDARD

No deviation.

4.4 TEST SETUP

4.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

4.6 TEST RESULTS

Note: The test data please reference to attachment “STS2503099W04_Appendix 5G WIFI”.

5. BANDWIDTH MEASUREMENT

5.1 EMISSION BANDWIDTH (EBW) 26 BANDWID PROCEDURES / LIMIT

The following procedure shall be used for measuring 26 bandwidth

5.1.1 TEST PROCEDURE

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > =RBW.
4. Detector = Peak.
5. Trace mode = max hold.
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP

5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

5.1.5 TEST RESULTS

Note: 1. The test data please reference to attachment “STS2503099W04_Appendix 5G WIFI”.

5.2 OCCUPIED BANDWIDTH (99%) TEST APPLIED PROCEDURES / LIMIT

The following procedure shall be used for measuring (99 %) power bandwidth.

5.2.1 TEST PROCEDURE

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures v02r01.

The following procedure shall be used for measuring (99 %) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set VBW ≥ 3 · RBW
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

5.2.2 DEVIATION FROM STANDARD

No deviation.

5.2.3 TEST SETUP

5.2.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

5.2.5 TEST RESULTS

Note: 1. The test data please reference to attachment “STS2503099W04_Appendix 5G WIFI”.

5.3 MINIMUM EMISSION BANDWIDTH(6 DB) PROCEDURES / LIMIT

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.725-5.85 GHz. The following procedure shall be used for measuring this bandwidth.

5.3.1 TEST PROCEDURE

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures v02r01.

a) Set RBW = 100 kHz.

b) Set the video bandwidth (VBW) ≥ 3 × RBW.

c) Detector = Peak.

d) Trace mode = max hold.

e) Sweep = auto couple.

f) Allow the trace to stabilize.

g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.3.2 DEVIATION FROM STANDARD

No deviation.

5.3.3 TEST SETUP

5.3.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

5.3.5 TEST RESULTS

Note: 1. The test data please reference to attachment “STS2503099W04_Appendix 5G WIFI”.

6. MAXIMUM CONDUCTED OUTPUT POWER

6.1 LIMIT

For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz,If transmitting antennas of directional gain greater than 6 dBi are used.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used.

FCC Part15 (15.407) , Subpart E				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.407(a) (1) (iv)	Peak Output Power	0.25 watt	5150-5250	PASS
		The lesser of 250 mW or 11 dBm + 10 log (26 dB emission bandwidth)	5250-5350 5470-5725	
15.407(a) (3)		1 watt	5725-5895	

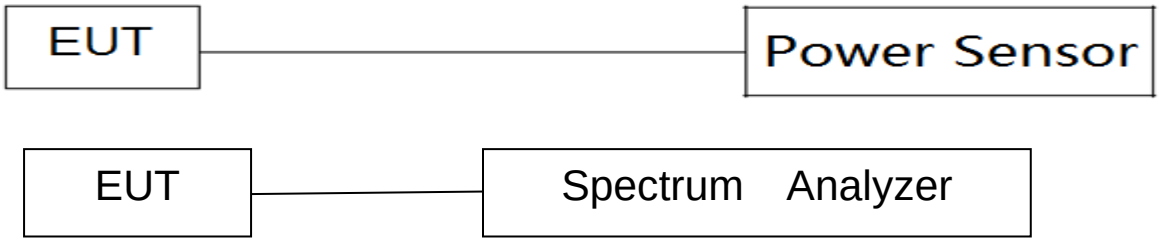
6.2 TEST PROCEDURE

The EUT was directly connected to the Power Sensor&PC

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 5 Unless otherwise a special operating condition is specified in the follows during the testing.

6.6 TEST RESULTS

Note: The test data please reference to attachment “STS2503099W04_Appendix 5G WIFI”.

7. FREQUENCY STABILITY MEASUREMENT

7.1 LIMIT

The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 45 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.

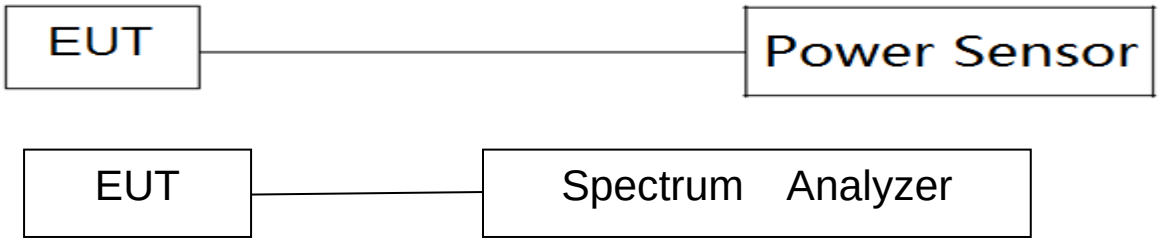
7.2 TEST PROCEDURE

The EUT was directly connected to the Power Sensor&PC

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 5 Unless otherwise a special operating condition is specified in the follows during the testing.

7.6 TEST RESULTS

Note: The test data please reference to attachment “STS2503099W04_Appendix 5G WIFI”.

8. AUTOMATICALLY DISCONTINUE TRANSMISSION

8.1 LIMIT OF AUTOMATICALLY DISCONTINUE TRANSMISSION

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to
complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

8.2 TEST RESULT OF AUTOMATICALLY DISCONTINUE TRANSMISSION

During no any information transmission, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message
transmitting from remote device and verify whether it shall resend or discontinue transmission

9. ANTENNA REQUIREMENT

9.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 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.

9.2 EUT ANTENNA

The EUT antenna is Internal Antenna. It comply with the standard requirement.

APPENDIX - PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

※※※※※END OF THE REPORT※※※※※