



中国认可
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检测
TESTING
CNAS L16091

No.:
FCCSZ2025-0047-RF

TEST REPORT

FCC ID : 2ANM3U8822C2

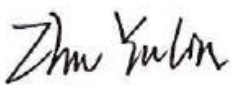
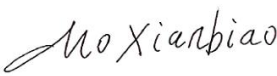
NAME OF SAMPLE : WiFi + BT Module

APPLICANT : Shenzhen Chuangwei-RGB Electronics Co., Ltd.

CLASSIFICATION OF TEST : N/A

CVC Testing Technology (Shenzhen) Co., Ltd.



Applicant		Name: Shenzhen Chuangwei-RGB Electronics Co., Ltd.	
		Address: 13F-16F, Unit A, Skyworth Building, Shennan Road South, Nanshan District, Shenzhen, Guangdong, China	
Equipment Under Test		Product Name: WiFi + BT Module	
		Model Name: U8822C5	
		Brand Name: N/A	
		Serial NO.: N/A	
		Sample NO.: 202506061143-2	
Date of Receipt.	Jun. 12, 2025	Date of Testing	Jun. 12, 2025 ~ Jul. 01, 2025
Test Specification		Test Result	
FCC Part 15, Subpart C, Section 15.247 FCC Part 15, Subpart E, Section 15.407		PASS	
Evaluation of Test Result		The equipment under test was found to comply with the requirements of the standards applied.	
		Seal of CVC Issue Date: Jul. 01, 2025	
Compiled by:  Zhu Yulin Name Signature		Reviewed by:  Mo Xianbiao Name Signature	Approved by:  Dong Sanbi Name Signature
Other Aspects: NONE.			
Abbreviations: OK, Pass= passed Fail = failed N/A= not applicable EUT= equipment, sample(s) under tested			

This test report relates only to the EUT, and shall not be reproduced except in full, without written approval of CVC.



TABLE OF CONTENTS

RELEASE CONTROL RECORD	4
1 SUMMARY OF TEST RESULTS	5
1.1 TEST LOCATION	5
1.2 LIST OF TEST AND MEASUREMENT INSTRUMENTS	6
1.3 MEASUREMENT UNCERTAINTY	7
2 GENERAL INFORMATION	8
2.1 GENERAL PRODUCT INFORMATION	8
2.2 OTHER INFORMATION	9
2.3 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL	11
2.4 GENERAL DESCRIPTION OF APPLIED STANDARDS	14
2.5 DESCRIPTION OF SUPPORT UNITS	14
3 TEST TYPES AND RESULTS	15
3.1 RADIATED EMISSION AND RESTRICTED BANDS MEASUREMENTS	15
3.2 ANTENNA REQUIREMENT	35
4 PHOTOGRAPHS OF TEST SETUP	36
5 PHOTOGRAPHS OF THE EUT	37



RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FCCSZ2025-0047-RF	Original release	Jul. 01, 2025



1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.247)			
STANDARD SECTION	TEST TYPE	RESULT	REMARK
FCC Part 15.247(d) FCC Part 15.205 FCC Part 15.209	Radiated Emission and Restricted bands Measurements	PASS	See section 3.2
APPLIED STANDARD: FCC PART 15, SUBPART E (SECTION 15.407)			
STANDARD SECTION	TEST TYPE	RESULT	REMARK
FCC 15.407(b)	Radiated Emission and Band edge	PASS	See section 3.2
Remark: Building upon the original module, each of the two WiFi ports has been augmented with four additional antennas, and the model name has been changed to U8822C5. The BT section remains unchanged. Therefore, this report only test the Radiated Spurious Emissions; all other data refers to the original module.(FCC ID: 2ANM3U8822C2, Date of Grant: 11/19/2024)			

1.1 TEST LOCATION

The tests and measurements refer to this report were performed by EMC testing Lab of CVC Testing Technology (Shenzhen) Co., Ltd.

Address: No. 1301-14&16, Guanguang Road, Xinlan Community, Guanlan Subdistrict, Longhua District, Shenzhen, Guangdong, China

Post Code: 518110 Tel: 0755-23763060-8805
Fax: 0755-23763060 E-mail: sz-kf@cvc.org.cn
FCC(Test firm designation number: CN1363)
IC(Test firm CAB identifier number: CN0137)
CNAS(Test firm designation number: L16091)

**1.2 LIST OF TEST AND MEASUREMENT INSTRUMENTS**

Equipment	Manufacturer	Model No.	Serial Number	Cal. interval	Cal. Due
Radiation Spurious Test - 3M Chamber #2					
Signal&Spectrum Analyzer	Rohde&Schwarz	FSV 40	101898	1 year	2026/4/22
EMI Test Receiver	Rohde&Schwarz	ESR3	102694	1 year	2026/5/21
Antenna(30MHz~1001MHz)	SCHWARZBECK	VULB 9168	01133	1 year	2026/1/22
Horn antenna(1GHz-18GHz)	ETS	3117	227611	1 year	2026/3/28
Horn antenna(18GHz-40GHz)	QMS	QMS-00880	22051	1 year	2026/3/21
3m anechoic chamber	MORI	966	CS0300011	3 year	2026/5/18
Filter group(RSE-BT/WiFi)	Rohde&Schwarz	WiFi /BT Variant 1	100820	1 year	2026/4/22
Filter group(RSE-Cellular)	Rohde&Schwarz	Cellular Variant 1	100768	1 year	2026/4/22
Preamplifier(10kHz-1GHz)	Rohde&Schwarz	SCU-01F	100299	1 year	2026/4/22
Preamplifier(1GHz-18GHz)	Rohde&Schwarz	SCU-18F	100799	1 year	2026/4/22
Preamplifier(1GHz-18GHz)	Rohde&Schwarz	SCU-18F	100801	1 year	2026/4/22
Preamplifier(18GHz-40GHz)	Rohde&Schwarz	SCU-40A	101209	1 year	2026/4/22
Temperature and humidity meter	/	C193561517	C193561517	1 year	2026/4/28
Radiation Spurious Test - 3M Chamber #1					
EMI Test Receiver	Rohde&Schwarz	ESR 26	101718	1 year	2026/5/21
Loop antenna(8.3k~30MHz)	Rohde&Schwarz	HFH2-Z2E	100951	1 year	2026/6/5
Antenna(30MHz~1000MHz)	SCHWARZBECK	VULB 9168	01132	1 year	2026/2/27
Horn antenna(1GHz-18GHz)	SCHWARZBECK	BBHA9120D	02793	1 year	2026/1/20
3m anechoic chamber	MORI	966	N/A	1 year	2026/5/18
Preamplifier(10kHz-1GHz)	Rohde&Schwarz	SCU-01F	100298	1 year	2026/4/22
Preamplifier(1GHz-18GHz)	Rohde&Schwarz	SCU-18F	100799	1 year	2026/4/22
Attenuator	/	SJ-5dB	607684	1 year	2026/2/27
#1 control room	MORI	433	/	1 year	2026/5/16
Temperature and humidity meter	/	C193561473	C193561473	1 year	2026/4/28



1.3 MEASUREMENT UNCERTAINTY

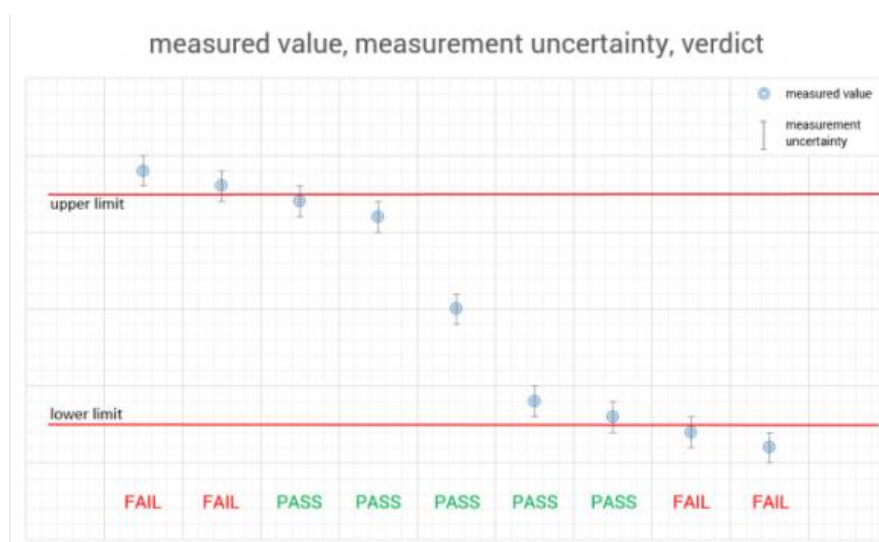
Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

No.	Item	Measurement Uncertainty
1	Occupied Channel Bandwidth	± 1.86 %
2	RF output power, conducted	± 0.9 dB
3	Power Spectral Density, conducted	± 0.8 dB
4	Conducted emission test	± 2.7 dB
5	Radiated emission 9kHz-30MHz	± 5.6 dB
	Radiated emission 30MHz-1GHz	± 4.6 dB
	Radiated emission 1GHz-18GHz	± 4.4 dB
	Radiated emission 18GHz-40GHz	± 5.1 dB
6	Temperature	± 0.73 °C
7	Humidity	± 3.90 %
8	Supply voltages	± 0.37 %
9	Time	± 0.27 %
Remark: 95% Confidence Levels, k=2.		

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

Only the measured values related to their corresponding limits will be used to decide whether the equipment under test meets the requirements of the test standards listed.

The measurement uncertainty is mentioned in this test report, but is not taken into account - neither to the limits nor to the measurement results. Measurement results with a smaller margin to the corresponding limits than the measurement uncertainty have a potential risk of more than 5% that the decision might be wrong.





2 GENERAL INFORMATION

2.1 GENERAL PRODUCT INFORMATION

PRODUCT NAME	WiFi + BT Module	
BRAND NAME	N/A	
MODEL NAME	U8822C5	
ADDITIONAL MODEL NAME	N/A	
POWER SUPPLY	DC 3.3V from host unit	
OPERATING FREQUENCY	2402MHz ~ 2480MHz for BT 2412MHz ~ 2462MHz for 2.4G WiFi 5180MHz ~ 5240MHz, 5745MHz ~ 5825MHz for 5G WiFi	
PEAK OUTPUT POWER (Remark 7)	BT: 8.16dBm BT-LE: 4.11dBm WiFi 2.4G:15.84dBm WiFi 5G: 12.88dBm for 5180 ~ 5240MHz, 16.17dBm for 5745 ~ 5825MHz	
ANTENNA TYPE (Remark 4/5)	BT: FPC Antenna, with 3.56dBi gain	
	RF Port1	WiFi 2.4G: ANT1: PIFA Antenna, with 2.58dBi gain ANT2: PIFA Antenna, with 3.68dBi gain ANT3: PIFA Antenna, with 3.35dBi gain ANT4: PIFA Antenna, with 3.62dBi gain
	RF Port2	WiFi 5G: ANT1: PIFA Antenna, with 3.43dBi gain ANT2: PIFA Antenna, with 3.72dBi gain ANT3: PIFA Antenna, with 5.78dBi gain ANT4: PIFA Antenna, with 3.44dBi gain
HARDWARE VERSION:	N012403-001013-001_VER00.01	
SOFTWARE VERSION:	Win7_MP_Kit_RTL11ac_8822CU_USB_v13.00_20221115	
FIX FREQUENCY SOFTWARE	WiFi: MPTool BT: Bluetooth RF Test Tool	
I/O PORTS	Refer to User's Manual	
CABLE SUPPLIED	N/A	
Remark: 1. For more detailed features description, please refer to the manufacturer’s specifications or the User’s Manual. 2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report. 3. EUT photo refer to the report (Report NO.: FCCSZ2025-0047-EUT). 4. Please refer to the antenna report. 5. Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, CVC is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion. 6. This module features two WiFi ports, each equipped with four antennas. For testing in this report, both WiFi ports utilize ANT2 (with a maximum gain of 3.68dBi for 2.4G) and ANT3 (with a maximum gain of 5.78dBi for 5G). 7. Since component changes do not affect RF parameters, the power data from the original test report shall be retained.		



2.2 OTHER INFORMATION

2.4G WIFI					
802.11b/g/n (HT20)					
CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)
1	2412	5	2432	9	2452
2	2417	6	2437	10	2457
3	2422	7	2442	11	2462
4	2427	8	2447		
802.11n (HT40)					
CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)
3	2422	6	2437	9	2452
4	2427	7	2442		
5	2432	8	2447		

1. The channels which were indicated in bold type of the above channel list were selected as representative test channel. Therefore only the data of the test channels were recorded in this report.
2. By means of test software which provided by manufacture, the power levels during the tests were set

802.11b		802.11g		802.11n(HT20)		802.11n(HT40)	
FREQUENCY (MHZ)	POWER SETTING	FREQUENCY (MHZ)	POWER SETTING	FREQUENCY (MHZ)	POWER SETTING	FREQUENCY (MHZ)	POWER SETTING
2412	65	2412	30	2412	30	2412	30
2437	65	2437	30	2437	30	2437	30
2462	65	2462	30	2462	30	2462	30



FOR 5180 ~ 5240MHz

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
36	5180MHz	40	5200MHz
44	5220 MHz	48	5240MHz

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190MHz	46	5230 MHz

1 channel is provided for 802.11ac (VHT80):

CHANNEL	FREQUENCY
42	5210MHz

FOR 5745 ~ 5825MHz

5 channels are provided for 802.11a, 802.11n (20MHz), 802.11ac (VHT20)::

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
149	5745MHz	153	5765MHz
157	5785MHz	161	5805MHz
165	5825MHz	--	--

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
151	5755MHz	159	5795MHz

1 channel is provided for 802.11ac (VHT80):

CHANNEL	FREQUENCY
155	5775MHz

1. The channels which were indicated in bold type of the above channel list were selected as representative test channel. Therefore only the data of the test channels were recorded in this report.
2. By means of test software which provided by manufacture, the power levels during the tests were set

802.11a		802.11n(HT20)		802.11n(HT40)		802.11ac(VHT80)	
FREQUENCY (MHZ)	POWER SETTING	FREQUENCY (MHZ)	POWER SETTING	FREQUENCY (MHZ)	POWER SETTING	FREQUENCY (MHZ)	POWER SETTING
2412	65	2412	60	2412	60	2412	65
2437	65	2437	60	2437	60	2437	65
2462	65	2462	60	2462	60	2462	65



2.3 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, xyz axis and antenna ports

The worst case was found when positioned on x axis for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	APPLICABLE TEST ITEMS				DESCRIPTION
	RE<1G	RE≥1G	PLC	APCM	
A	√	√	--	√	2.4G WiFi Function
B	√	√	--	√	5G WiFi Function

Where **RE < 1G**: Radiated Emission below 1GHz.
PLC: Power Line Conducted Emission.

RE ≥ 1G: Radiated Emission above 1GHz.
APCM: Antenna Port Conducted Measurement.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE PARAMETER
A	802.11b RF Port1 (ANT2)	1 to 11	1, 6, 11	DSSS	DBPSK	1.0 Mbps
A	802.11b RF Port2 (ANT2)	1 to 11	1, 6, 11	DSSS	DBPSK	1.0 Mbps
A	802.11b CDD	1 to 11	1, 6, 11	DSSS	DBPSK	1.0 Mbps
A	802.11g RF Port1 (ANT2)	1 to 11	1, 6, 11	OFDM	BPSK	6.0 Mbps
A	802.11g RF Port2 (ANT2)	1 to 11	1, 6, 11	OFDM	BPSK	6.0 Mbps
A	802.11g CDD	1 to 11	1, 6, 11	OFDM	BPSK	6.0 Mbps
A	802.11n(HT20) RF Port1 (ANT2)	1 to 11	1, 6, 11	OFDM	BPSK	MCS0
A	802.11n(HT20) RF Port2 (ANT2)	1 to 11	1, 6, 11	OFDM	BPSK	MCS0
A	802.11n(HT20) MIMO	1 to 11	1, 6, 11	OFDM	BPSK	MCS0
A	802.11n (HT40) RF Port1 (ANT2)	3 to 9	3, 6, 9	OFDM	BPSK	MCS0
A	802.11n (HT40) RF Port2 (ANT2)	3 to 9	3, 6, 9	OFDM	BPSK	MCS0
A	802.11n (HT40) MIMO	3 to 9	3, 6, 9	OFDM	BPSK	MCS0
B	802.11a RF Port1 (ANT3)	36 to 48	36 ,40, 48	OFDM	BPSK	6.0 Mbps
		149 to165	149, 157, 165	OFDM	BPSK	6.0 Mbps
B	802.11a RF Port2 (ANT3)	36 to 48	36 ,40, 48	OFDM	BPSK	6.0 Mbps
		149 to165	149, 157, 165	OFDM	BPSK	6.0 Mbps
B	802.11a CDD	36 to 48	36 ,40, 48	OFDM	BPSK	6.0 Mbps
		149 to165	149, 157, 165	OFDM	BPSK	6.0 Mbps



B	802.11n(HT20) RF Port1 (ANT3)	36 to 48	36 ,40, 48	OFDM	BPSK	MCS0
		149 to165	149, 157, 165	OFDM	BPSK	MCS0
B	802.11n(HT20) RF Port2 (ANT3)	36 to 48	36 ,40, 48	OFDM	BPSK	MCS0
		149 to165	149, 157, 165	OFDM	BPSK	MCS0
B	802.11n(HT20) MIMO	36 to 48	36 ,40, 48	OFDM	BPSK	MCS0
		149 to165	149, 157, 165	OFDM	BPSK	MCS0
B	802.11n (HT40) RF Port1 (ANT3)	38 to 46	38, 46	OFDM	BPSK	MCS0
		151 to159	151, 159	OFDM	BPSK	MCS0
B	802.11n (HT40) RF Port2 (ANT3)	38 to 46	38, 46	OFDM	BPSK	MCS0
		151 to159	151, 159	OFDM	BPSK	MCS0
B	802.11n (HT40) MIMO	38 to 46	38, 46	OFDM	BPSK	MCS0
		151 to159	151, 159	OFDM	BPSK	MCS0
B	802.11ac (VHT20) RF Port1 (ANT3)	36 to 48	36 ,40, 48	OFDM	BPSK	MCS0
		149 to165	149, 157, 165	OFDM	BPSK	MCS0
B	802.11ac (VHT20) RF Port2 (ANT3)	36 to 48	36 ,40, 48	OFDM	BPSK	MCS0
		149 to165	149, 157, 165	OFDM	BPSK	MCS0
B	802.11ac (VHT20) MIMO	36 to 48	36 ,40, 48	OFDM	BPSK	MCS0
		149 to165	149, 157, 165	OFDM	BPSK	MCS0
B	802.11ac (VHT40) RF Port1 (ANT3)	38 to 46	38, 46	OFDM	BPSK	MCS0
		151 to159	151, 159	OFDM	BPSK	MCS0
B	802.11ac (VHT40) RF Port2 (ANT3)	38 to 46	38, 46	OFDM	BPSK	MCS0
		151 to159	151, 159	OFDM	BPSK	MCS0
B	802.11ac (VHT40) MIMO	38 to 46	38, 46	OFDM	BPSK	MCS0
		151 to159	151, 159	OFDM	BPSK	MCS0
B	802.11ac (VHT80) RF Port1 (ANT3)	42	42	OFDM	BPSK	MCS0
		155	155	OFDM	BPSK	MCS0
B	802.11ac (VHT80) RF Port2 (ANT3)	42	42	OFDM	BPSK	MCS0
		155	155	OFDM	BPSK	MCS0
B	802.11ac (VHT80) MIMO	42	42	OFDM	BPSK	MCS0
		155	155	OFDM	BPSK	MCS0

Remark:

Due to the same modulation between 802.11n and 802.11ac, meanwhile, power level for 802.11ac-VHT20 and VHT40 will not be greater than 802.11n-HT20 and HT40.



TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	TEST VOLTAGE (SYSTEM)	TESTED BY
RE<1G	24.5deg. C, 55%RH	DC 3.3V from host unit	Liu Yuan
RE≥1G	24.5deg. C, 55%RH	DC 3.3V from host unit	Liu Yuan
PLC	25.2deg. C, 53%RH	DC 3.3V from host unit	Zhou Ye
APCM	24.2deg. C, 57%RH	DC 3.3V from host unit	Zhu Yulin



2.4 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product, according to the specifications of the manufacturers. It must comply with the requirements of the following standards:

FCC Part 15, Subpart C Section 15.247

FCC Part 15, Subpart E Section 15.407

KDB 558074 D01 15.247 Meas Guidance v05r02

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

KDB 662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10-2013

All test items have been performed and recorded as per the above standards

2.5 DESCRIPTION OF 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.

Support Equipment							
NO	Description	Brand	Model No.	Serial Number	Supplied by		
1	Notebook	HP	ZHAN 66 PRO 14	N/A	Lab		
2	Debug board	N/A	E321345	N/A	Lab		
Support Cable							
NO	Description	Quantity (Number)	Length (m)	Detachable (Yes/ No)	Shielded (Yes/ No)	Cores (Number)	Supplied by
1	N/A	N/A	N/A	N/A	N/A	N/A	N/A



3 TEST TYPES AND RESULTS

3.1 RADIATED EMISSION AND RESTRICTED BANDS MEASUREMENTS

3.1.1 Limits

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a). Other emissions shall be at least 20dB below the highest level of the desired power.

FREQUENCIES (MHz)	FIELD STRENGTH (Microvolts/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

NOTE: 1. The lower limit shall apply at the transition frequencies.
NOTE: 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
NOTE: 3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

3.1.2 Measurement procedure

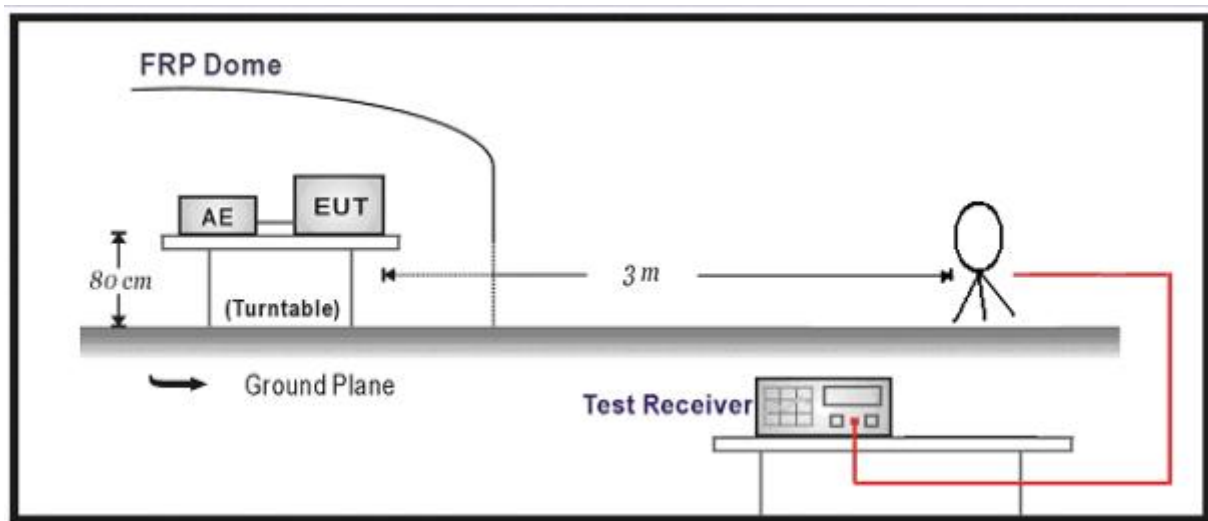
- The EUT was placed on the top of a rotating table 1.5 meters(above 1GHz) and 0.8 meters(below 1GHz) above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- For below 1GHz was used bilog antenna, and above 1GHz was used horn antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- For below 30MHz, a loop antenna with its vertical plane is place 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1m above the ground.
- During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using fresh batteries. The turntable was rotated to maximize the emission level.

NOTE:

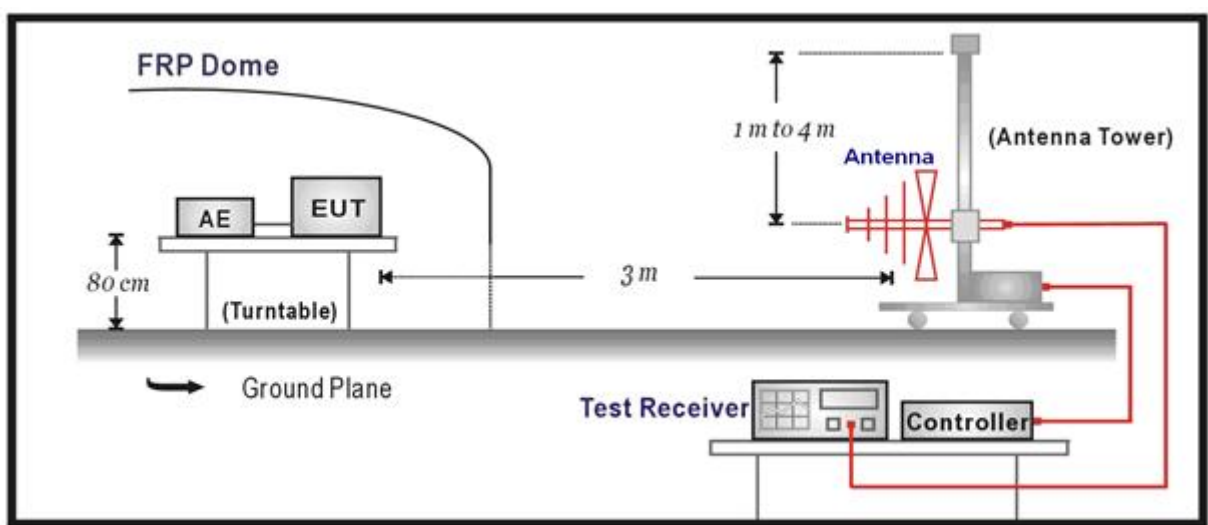
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz(Duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.
5. The testing of the EUT was performed on all 3 orthogonal axes; the worst-case test configuration was reported on the file test setup photo.

3.1.3 Test setup

Below 30MHz Test Setup:

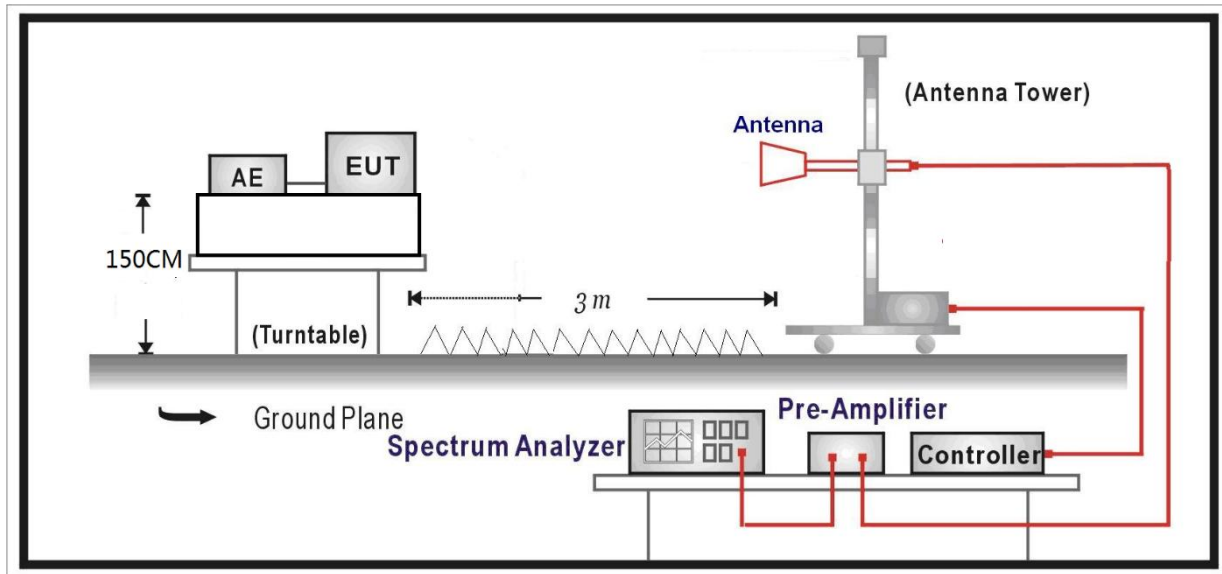


Below 1GHz Test Setup:





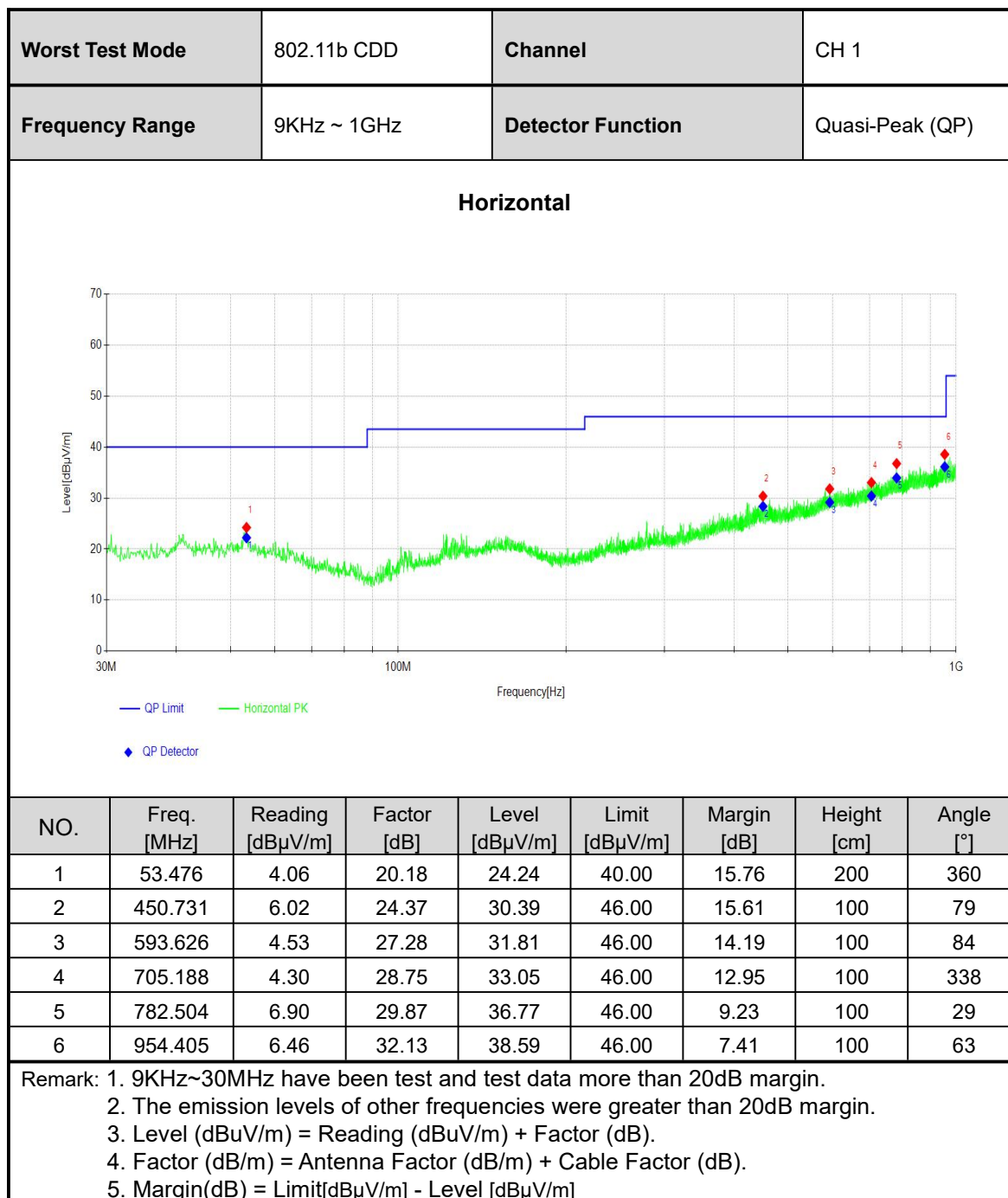
Above 1GHz Test Setup:

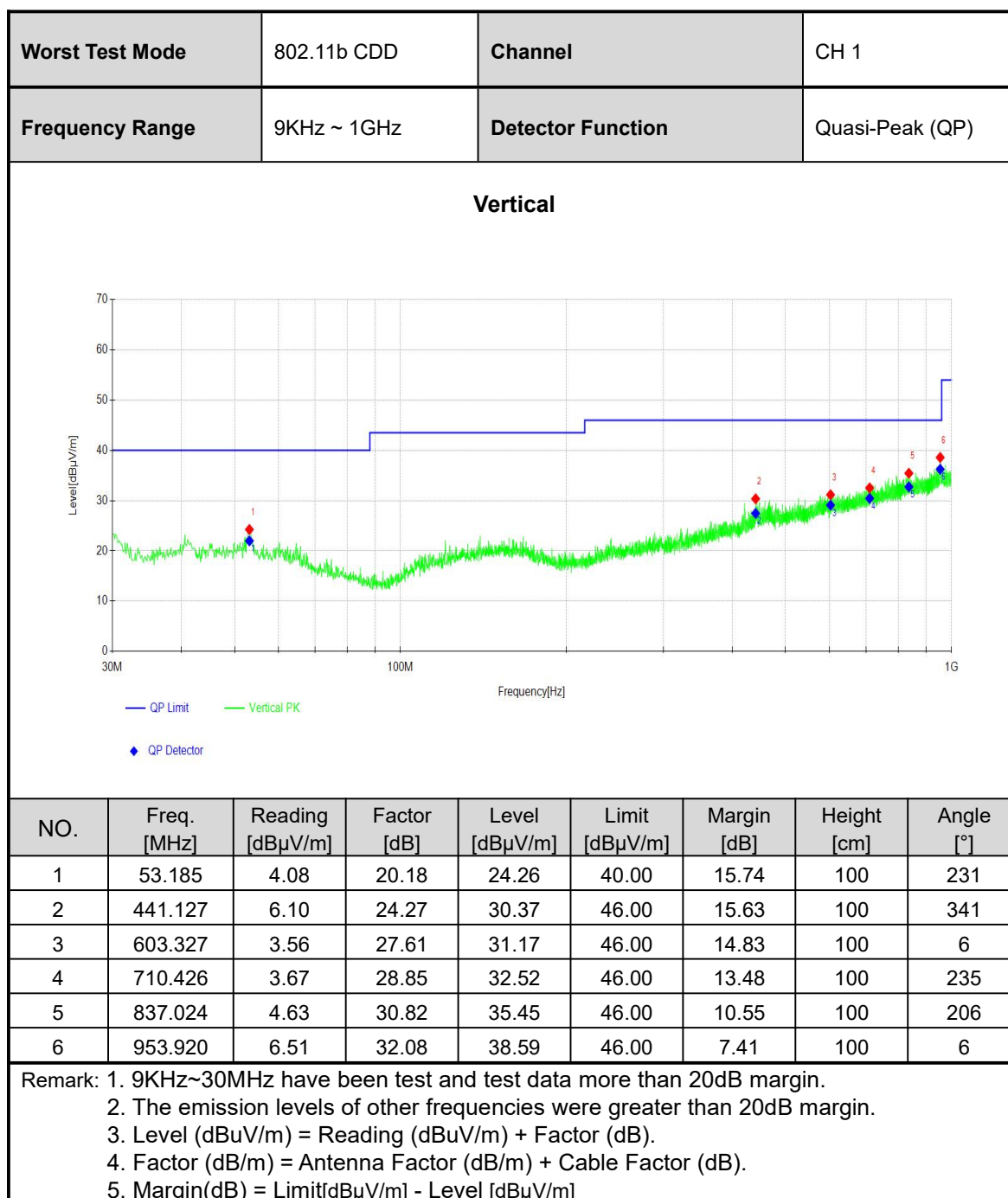




3.1.4 Test results - Below 1GHz

BELOW 1GHz WORST-CASE DATA:

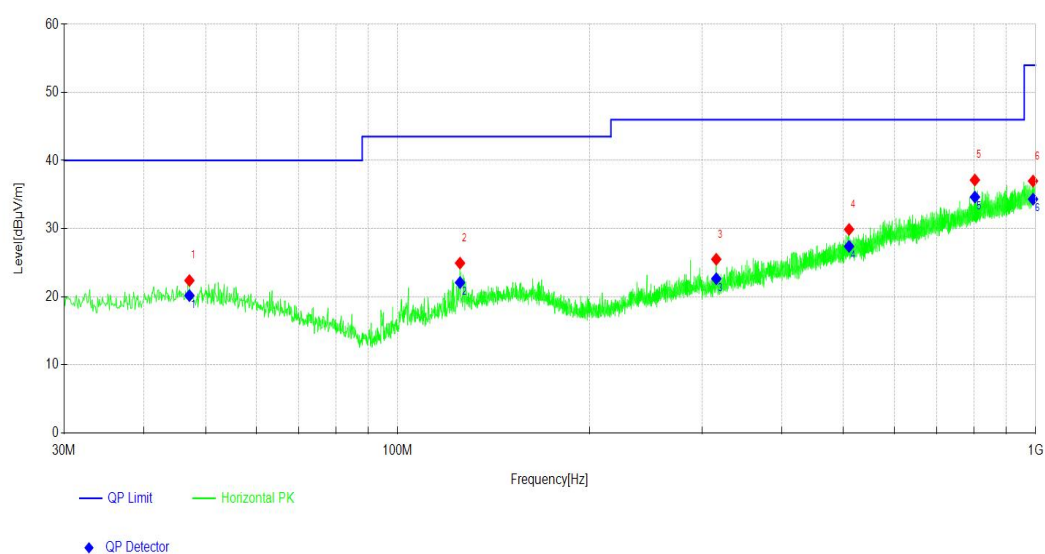






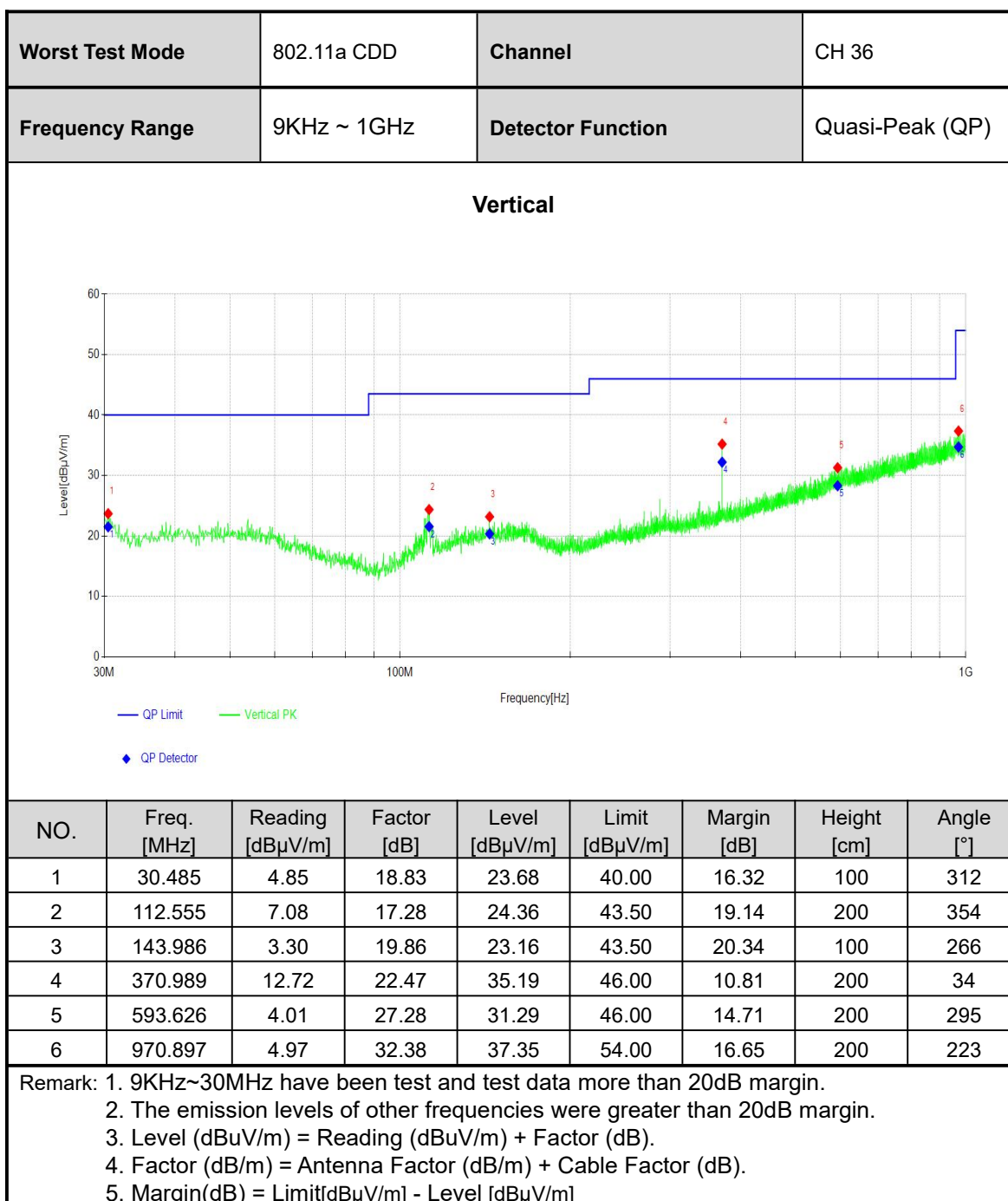
Worst Test Mode	802.11a CDD	Channel	CH 36
Frequency Range	9KHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

Horizontal



NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]
1	47.171	2.22	20.14	22.36	40.00	17.64	100	43
2	125.264	6.33	18.59	24.92	43.50	18.58	200	338
3	315.888	4.46	21.03	25.49	46.00	20.51	100	35
4	510.101	4.38	25.49	29.87	46.00	16.13	200	191
5	803.361	6.87	30.26	37.13	46.00	8.87	100	35
6	990.881	4.51	32.47	36.98	54.00	17.02	200	61

Remark: 1. 9KHz~30MHz have been test and test data more than 20dB margin.
2. The emission levels of other frequencies were greater than 20dB margin.
3. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).
4. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
5. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]





3.1.1 Test Results - 2412-2462MHz:

ABOVE 1GHz DATA

For the 802.11b/802.11g/802.11n modes, all modes (SISO, CDD, MIMO) have been tested, but the report only includes data for the worst-case mode (802.11b CDD).

Channel		802.11b CDD CH 1		Frequency		2412MHz	
Frequency Range		Above 1G		Detector Function		PK/AV	
Horizontal							
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	2371.73	51.52	-1.53	49.99	74.00	24.01	PK
2	2387.89	41.50	-1.40	40.10	54.00	13.90	AV
3	2390.00	49.76	-1.37	48.39	74.00	25.61	PK
4	2390.00	40.24	-1.37	38.87	54.00	15.13	AV
5	2411.08	98.42	-1.19	97.23			AV
6	2412.88	100.60	-1.19	99.41			PK
7	4824.00	42.83	9.58	52.41	74.00	21.59	PK
8	4824.00	34.72	9.58	44.30	54.00	9.70	AV
9	7236.00	21.24	13.96	35.20	54.00	18.80	AV
10	7236.00	28.27	13.96	42.23	74.00	31.77	PK
11	9648.00	28.18	14.33	42.51	74.00	31.49	PK
12	9648.00	19.93	14.33	34.26	54.00	19.74	AV
Vertical							
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	2359.84	40.72	-1.36	39.36	54.00	14.64	AV
2	2360.44	51.48	-1.38	50.10	74.00	23.90	PK
3	2390.00	48.85	-1.37	47.48	74.00	26.52	PK
4	2390.00	39.97	-1.37	38.60	54.00	15.40	AV
5	2410.91	93.97	-1.19	92.78			AV
6	2413.51	96.23	-1.19	95.04			PK
7	4824.00	43.49	9.58	53.07	74.00	20.93	PK
8	4824.00	34.15	9.58	43.73	54.00	10.27	AV
9	7236.00	29.46	13.96	43.42	74.00	30.58	PK
10	7236.00	21.25	13.96	35.21	54.00	18.79	AV
11	9648.00	28.81	14.33	43.14	74.00	30.86	PK
12	9648.00	20.20	14.33	34.53	54.00	19.47	AV
Remark: 1. The emission levels of other frequencies were greater than 20dB margin. 2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB). 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB). 4. Margin(dB) = Limit[dBuV/m] - Level [dBuV/m].							



Channel		802.11b CDD CH 6		Frequency		2437MHz	
Frequency Range		Above 1G		Detector Function		PK/AV	
Horizontal							
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	4874.00	34.74	9.66	44.40	54.00	9.60	AV
2	4874.00	43.51	9.66	53.17	74.00	20.83	PK
3	7311.00	21.90	12.65	34.55	54.00	19.45	AV
4	7311.00	31.68	12.65	44.33	74.00	29.67	PK
5	9748.00	19.30	14.73	34.03	54.00	19.97	AV
6	9748.00	28.20	14.73	42.93	74.00	31.07	PK
Vertical							
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	4874.00	42.46	9.66	52.12	74.00	21.88	PK
2	4874.00	34.67	9.66	44.33	54.00	9.67	AV
3	7311.00	29.50	12.65	42.15	74.00	31.85	PK
4	7311.00	21.50	12.65	34.15	54.00	19.85	AV
5	9748.00	27.41	14.73	42.14	74.00	31.86	PK
6	9748.00	19.55	14.73	34.28	54.00	19.72	AV
Remark: 1. The emission levels of other frequencies were greater than 20dB margin. 2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB). 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB). 4. Margin(dB) = Limit[dBuV/m] - Level [dBuV/m]							



Channel		802.11b CDD CH 11		Frequency		2462MHz	
Frequency Range		Above 1G		Detector Function		PK/AV	
Horizontal							
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	2459.27	104.32	-1.18	103.14			PK
2	2460.47	102.34	-1.16	101.18			AV
3	2483.50	39.70	-1.15	38.55	54.00	15.45	AV
4	2483.50	46.69	-1.15	45.54	74.00	28.46	PK
5	2488.51	41.66	-0.91	40.75	54.00	13.25	AV
6	2488.58	50.08	-0.90	49.18	74.00	24.82	PK
7	4824.00	41.46	10.19	51.65	74.00	22.35	PK
8	4824.00	33.86	10.19	44.05	54.00	9.95	AV
9	7236.00	28.70	11.57	40.27	74.00	33.73	PK
10	7236.00	21.04	11.57	32.61	54.00	21.39	AV
11	9648.00	27.61	14.74	42.35	74.00	31.65	PK
12	9648.00	19.47	14.74	34.21	54.00	19.79	AV
Vertical							
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	2459.27	99.13	-1.18	97.95			PK
2	2461.03	97.16	-1.14	96.02			AV
3	2483.50	46.28	-1.15	45.13	74.00	28.87	PK
4	2483.50	37.11	-1.15	35.96	54.00	18.04	AV
5	2487.05	47.94	-0.98	46.96	74.00	27.04	PK
6	2490.52	38.84	-0.85	37.99	54.00	16.01	AV
7	4924.00	42.28	10.19	52.47	74.00	21.53	PK
8	4924.00	33.89	10.19	44.08	54.00	9.92	AV
9	7386.00	29.13	11.57	40.70	74.00	33.30	PK
10	7386.00	20.81	11.57	32.38	54.00	21.62	AV
11	9848.00	27.75	14.74	42.49	74.00	31.51	PK
12	9848.00	20.30	14.74	35.04	54.00	18.96	AV
Remark: 1. The emission levels of other frequencies were greater than 20dB margin. 2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB). 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB). 4. Margin(dB) = Limit[dBuV/m] - Level [dBuV/m]							



3.1.2 Test Results - Band 1 (5180-5240MHz):

ABOVE 1GHz DATA

For the 802.11a/802.11n/802.11ac modes, all modes (SISO, CDD, MIMO) have been tested, but the report only includes data for the worst-case mode (802.11a CDD).

Channel	802.11a CDD CH36	Frequency	5180 MHz				
Frequency Range	Above 1G	Detector Function	PK/AV				
Horizontal							
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	5108.94	46.25	8.03	54.28	74.00	19.72	PK
2	5110.39	34.54	8.07	42.61	54.00	11.39	AV
3	5150.00	46.16	8.03	54.19	74.00	19.81	PK
4	5150.00	35.34	8.03	43.37	54.00	10.63	AV
5	5184.82	90.56	7.65	98.21			AV
6	5185.30	98.73	7.63	106.36			PK
7	10360.00	27.81	15.59	43.40	68.20	24.80	PK
8	10360.00	18.41	15.59	34.00	54.00	20.00	AV
9	15540.00	23.44	21.44	44.88	74.00	29.12	PK
10	15540.00	14.78	21.44	36.22	54.00	17.78	AV

Remark: 1. The emission levels of other frequencies were greater than 20dB margin.

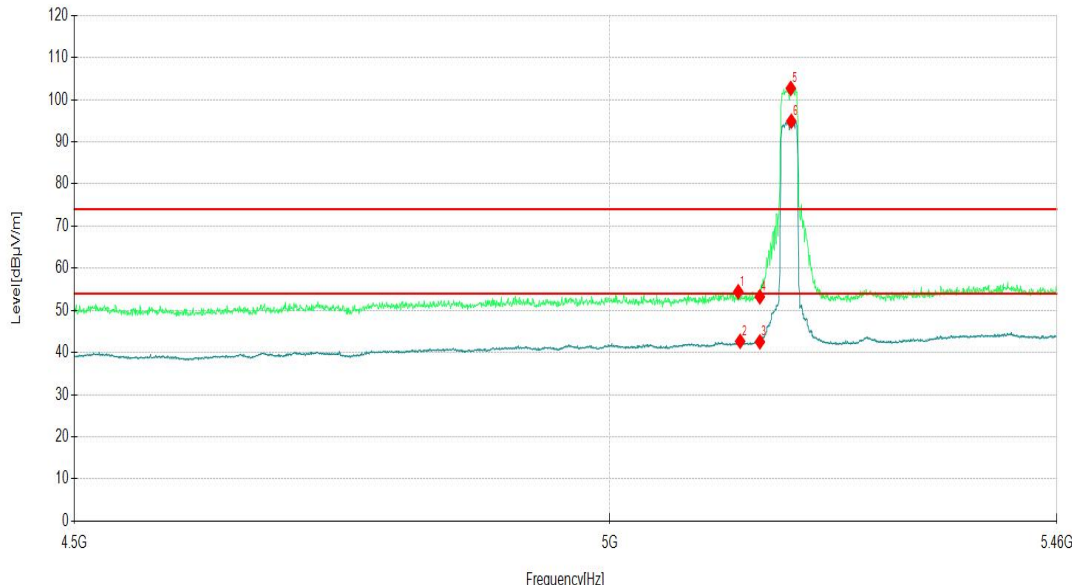
2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).

3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).

4. Margin(dB) = Limit[dBuV/m] - Level [dBuV/m]



Channel	802.11a CDD CH36			Frequency	5180 MHz		
Frequency Range	Above 1G			Detector Function	PK/AV		
Vertical							
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	5128.15	46.26	8.17	54.43	74.00	19.57	PK
2	5130.08	34.42	8.25	42.67	54.00	11.33	AV
3	5150.00	34.50	8.03	42.53	54.00	11.47	AV
4	5150.00	45.20	8.03	53.23	74.00	20.77	PK
5	5181.46	94.93	7.75	102.68			PK
6	5181.94	87.15	7.74	94.89			AV
7	10360.00	31.07	15.59	46.66	68.20	21.54	PK
8	10360.00	22.13	15.59	37.72	54.00	16.28	AV
9	15540.00	23.97	21.44	45.41	74.00	28.59	PK
10	15540.00	15.48	21.44	36.92	54.00	17.08	AV



Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBuV/m] - Level [dBuV/m]



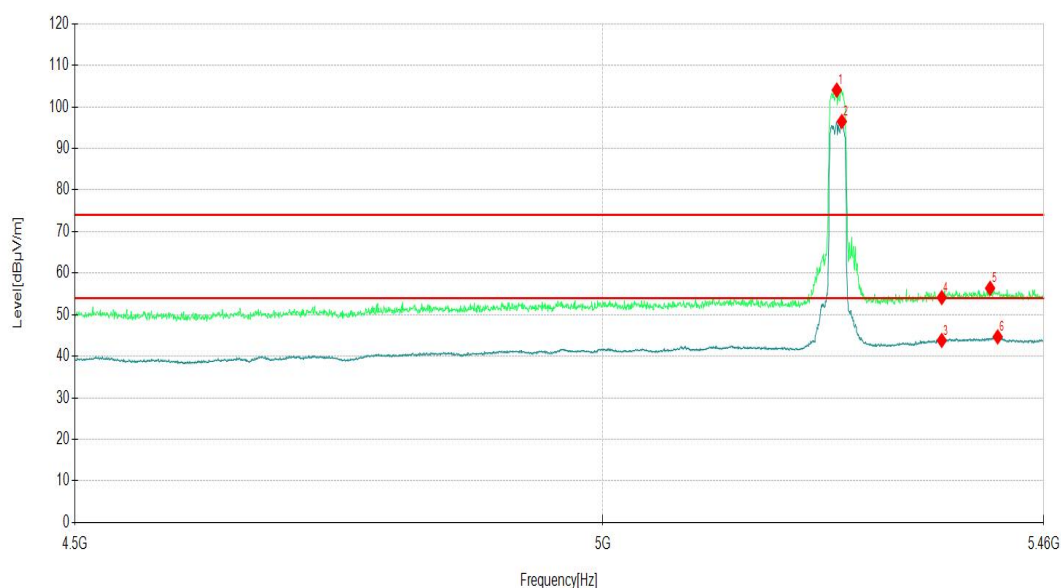
Channel		802.11a CDD CH 40		Frequency		5200MHz	
Frequency Range		Above 1G		Detector Function		PK/AV	
Horizontal							
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	10400.00	27.96	15.80	43.76	68.20	24.44	PK
2	10400.00	18.98	15.80	34.78	54.00	19.22	AV
3	15600.00	23.50	21.58	45.08	74.00	28.92	PK
4	15600.00	14.23	21.58	35.81	54.00	18.19	AV
Vertical							
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	10400.00	30.66	15.80	46.46	68.20	21.74	PK
2	10400.00	21.93	15.80	37.73	54.00	16.27	AV
3	15600.00	23.92	21.58	45.50	74.00	28.50	PK
4	15600.00	15.81	21.58	37.39	54.00	16.61	AV
Remark: 1. The emission levels of other frequencies were greater than 20dB margin. 2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m). 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB). 4. Margin(dB) = Limit[dBuV/m] - Level [dBuV/m]							



Channel	802.11a CDD CH48	Frequency	5240 MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Horizontal

N O.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	5239.09	96.02	8.01	104.03			PK
2	5244.37	88.44	8.04	96.48			AV
3	5350.00	34.15	9.66	43.81	54.00	10.19	AV
4	5350.00	44.47	9.66	54.13	74.00	19.87	PK
5	5401.89	46.59	9.77	56.36	74.00	17.64	PK
6	5410.06	34.66	10.01	44.67	54.00	9.33	AV
7	10480.00	28.57	15.87	44.44	68.20	23.76	PK
8	10480.00	18.98	15.87	34.85	54.00	19.15	AV
9	15720.00	22.99	22.33	45.32	74.00	28.68	PK
10	15720.00	14.44	22.33	36.77	54.00	17.23	AV



Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV) + Factor (dB/m).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel	802.11aCDD CH48			Frequency	5240 MHz		
Frequency Range	Above 1G			Detector Function	PK/AV		
Vertical							
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	5242.93	88.27	8.03	96.30			AV
2	5243.41	96.13	8.03	104.16			PK
3	5350.00	44.70	9.66	54.36	74.00	19.64	PK
4	5350.00	33.99	9.66	43.65	54.00	10.35	AV
5	5387.96	46.89	9.77	56.66	74.00	17.34	PK
6	5409.09	34.80	9.99	44.79	54.00	9.21	AV
7	10480.00	29.96	15.87	45.83	68.20	22.37	PK
8	10480.00	21.06	15.87	36.93	54.00	17.07	AV
9	15720.00	22.21	22.33	44.54	74.00	29.46	PK
10	15720.00	13.84	22.33	36.17	54.00	17.83	AV

Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



3.1.3 Test Results - Band 4 (5745-5825MHz):

ABOVE 1GHz DATA

For the 802.11a/802.11n/802.11ac modes, all modes (SISO, CDD, MIMO) have been tested, but the report only includes data for the worst-case mode (802.11a CDD).

Channel	802.11a CDD CH149	Frequency	5745 MHz				
Frequency Range	Above 1G	Detector Function	PK/AV				
Horizontal							
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	5608.63	46.81	9.01	55.82	68.20	12.38	PK
2	5750.45	96.34	8.95	105.29			PK
3	5931.48	48.07	10.55	58.62	68.20	9.58	PK
4	11490.00	24.40	16.45	40.85	74.00	33.15	PK
5	11490.00	17.46	16.45	33.91	54.00	20.09	AV
6	17235.00	20.11	27.05	47.16	68.20	21.04	PK
7	17235.00	12.95	27.05	40.00	54.00	14.00	AV

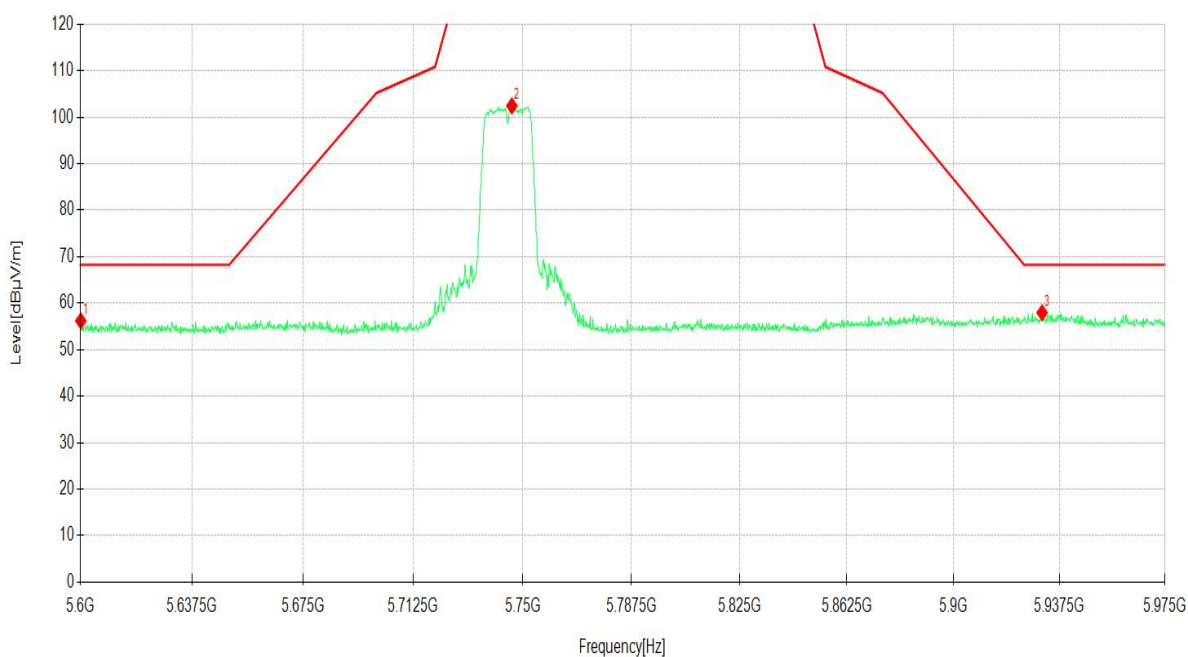
Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV) + Factor (dB/m).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel	802.11a CDD CH149	Frequency	5745 MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Vertical

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	5600.19	47.34	8.85	56.19	68.20	12.01	PK
2	5746.32	93.49	8.93	102.42			PK
3	5931.29	47.41	10.54	57.95	68.20	10.25	PK
4	11490.00	26.54	16.45	42.99	74.00	31.01	PK
5	11490.00	20.35	16.45	36.80	54.00	17.20	AV
6	17235.00	19.92	27.05	46.97	68.20	21.23	PK
7	17235.00	13.00	27.05	40.05	54.00	13.95	AV



Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV) + Factor (dB/m).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



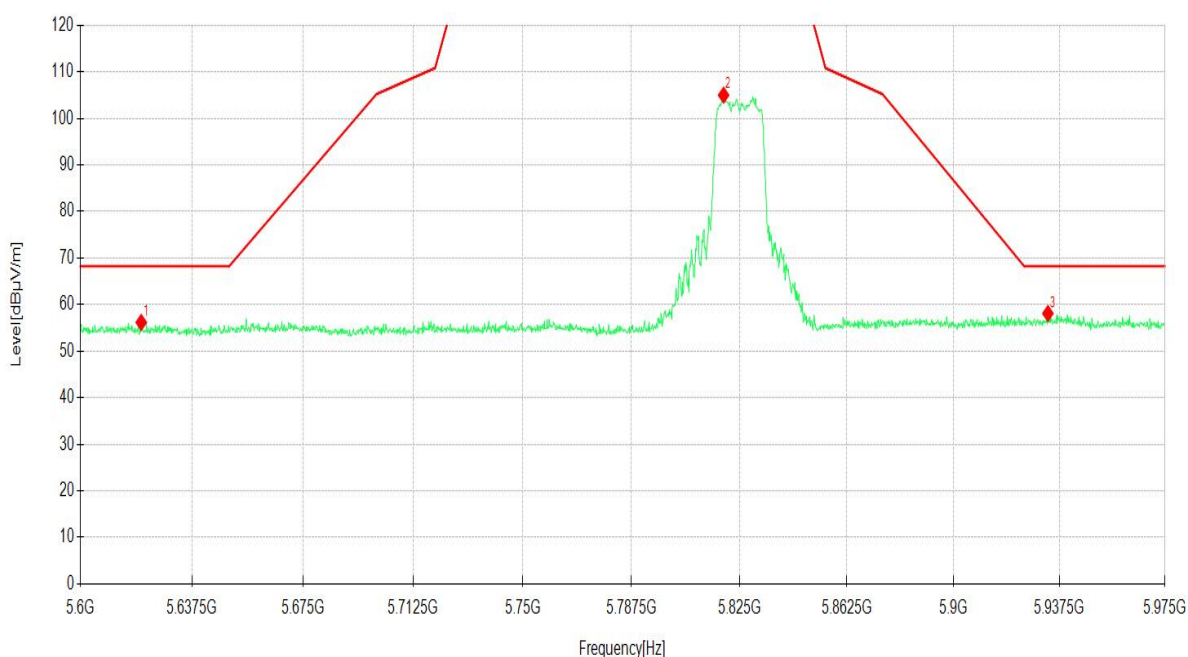
Channel		802.11a CH CDD 157		Frequency		5785MHz	
Frequency Range		Above 1G		Detector Function		PK/AV	
Horizontal							
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	11570.00	26.53	16.81	43.34	74.00	30.66	PK
2	11570.00	19.56	16.81	36.37	54.00	17.63	AV
3	17355.00	19.88	28.18	48.06	68.20	20.14	PK
4	17355.00	12.61	28.18	40.79	54.00	13.21	AV
Vertical							
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	11570.00	27.46	16.81	44.27	74.00	29.73	PK
2	11570.00	20.16	16.81	36.97	54.00	17.03	AV
3	17355.00	20.83	28.18	49.01	68.20	19.19	PK
4	17355.00	13.11	28.18	41.29	54.00	12.71	AV
Remark: 1. The emission levels of other frequencies were greater than 20dB margin. 2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m). 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB). 4. Margin(dB) = Limit[dBuV/m] - Level [dBuV/m]							



Channel	802.11a CDD CH 165	Frequency	5825MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Horizontal

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	5620.45	47.19	8.99	56.18	68.20	12.02	PK
2	5819.48	96.08	8.89	104.97			PK
3	5933.35	47.48	10.61	58.09	68.20	10.11	PK
4	11650.00	26.25	16.70	42.95	74.00	31.05	PK
5	11650.00	18.37	16.70	35.07	54.00	18.93	AV
6	17475.00	19.08	28.12	47.20	68.20	21.00	PK
7	17475.00	12.43	28.12	40.55	54.00	13.45	AV



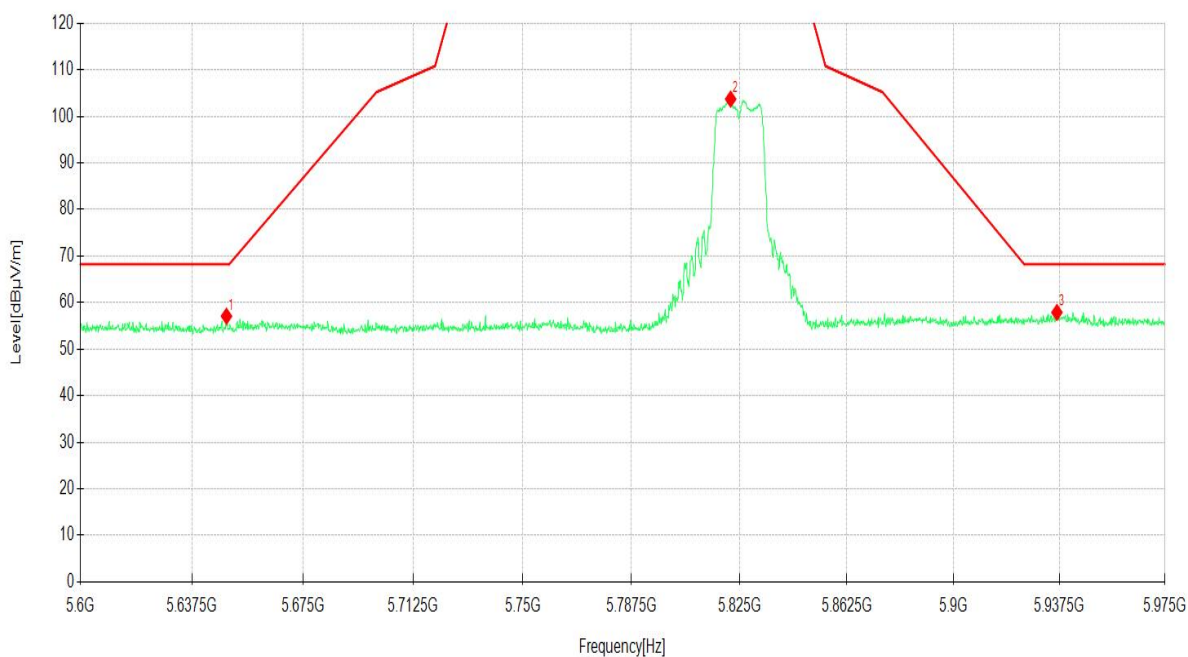
Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV) + Factor (dB/m).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel	802.11a CDD CH 165	Frequency	5825MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Vertical

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	5649.15	48.26	8.81	57.07	68.20	11.13	PK
2	5821.92	94.88	8.83	103.71			PK
3	5936.54	47.19	10.70	57.89	68.20	10.31	PK
4	11650.00	26.92	16.70	43.62	74.00	30.38	PK
5	11650.00	20.03	16.70	36.73	54.00	17.27	AV
6	17475.00	19.45	28.12	47.57	68.20	20.63	PK
7	17475.00	12.08	28.12	40.20	54.00	13.80	AV



Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV) + Factor (dB/m).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



3.2 ANTENNA REQUIREMENT

3.2.1 LIMITS OF ANTENNA REQUIREMENT

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. According to FCC 47 CFR Section 15.407(a)(1)(2), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.2.2 ANTENNA ANTI-REPLACEMENT CONSTRUCTION

The antenna used for this product is PIFA Antenna and FPC Antenna, that no antenna other than that furnished by the responsible party shall be used with the device.

3.2.3 ANTENNA GAIN

Operation Band	Chain 1 Antenna Gain(dBi)	Chain 2 Antenna Gain(dBi)	DG For Power (dBi)	Power Limit Reduction
BT	3.56	/	3.56	0
BLE	3.56	/	3.56	0
WiFi 2.4G	3.68	3.68	6.69	0.69
WiFi 5G	5.78	5.78	8.79	2.79

Refer to KDB662911 D01 Multiple Transmitter Output v02r01.

d) *Unequal antenna gains, with equal transmit powers.* For antenna gains given by $G_1, G_2, \dots, G_N$ dBi

(i) If transmit signals are *correlated*, then

Directional gain = $10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{\text{ANT}}]$ dBi [Note the “20”s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

(ii) If all transmit signals are *completely uncorrelated*, then

Directional gain = $10 \log[10^{G_1/10} + 10^{G_2/10} + \dots + 10^{G_N/10} / N_{\text{ANT}}]$ dBi



4 PHOTOGRAPHS OF TEST SETUP

Please refer to the attached file (Test Photos).



5 PHOTOGRAPHS OF THE EUT

Please refer to the attached file (External Photos and Internal Photos).

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



Important

- (1) The test report is invalid without the official stamp of CVC;
- (2) Any part photocopies of the test report are forbidden without the written permission from CVC;
- (3) The test report is invalid without the signatures of Approval and Reviewer;
- (4) The test report is invalid if altered;
- (5) Objections to the test report must be submitted to CVC within 15 days.
- (6) Generally, commission test is responsible for the tested samples only.
- (7) As for the test result “-” or “N” means “not applicable”, “/” means “not test”, “P” means “pass” and “F” means “fail”

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