



Test Report No.:
FCCSZ2023-0009-RF2

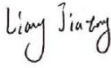
RF Test Report

FCC ID : 2AOKI-AL8731B
IC : 23460-AL8731B
EUT : WIFI Module
MODEL : AL-8731B-WG-A,WF-R31B-UWD1
BRAND NAME : AI-Link
APPLICANT : Sichuan AI-Link Technology Co.,Ltd.
Classification Of Test : N/A

CVC Testing Technology (Shenzhen) Co., Ltd.

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Applicant		Name: Sichuan AI-Link Technology Co.,Ltd. Address: Anzhou Industrial Park, Mianyang, Sichuan, P.R.C	
Manufacturer		Name: Sichuan AI-Link Technology Co.,Ltd. Address: Anzhou Industrial Park, Mianyang, Sichuan, P.R.C	
Equipment Under Test		Product Name: WIFI Module Model/Type: AL-8731B-WG-A, WF-R31B-UWD1 Brand Name: AI-Link Serial NO.: N/A Sample NO.: 4-1	
Date of Receipt.	2023.09.13	Date of Testing	2023.09.13~2023.09.26
Test Specification		Test Result	
FCC Part 15, Subpart E (15.407) Canada RSS-247 Issue 3 (2023-08) Canada RSS-Gen Issue 5+A1+A2 (2021-02)		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:2023.09.26		
Tested by:  <u>Liang Jiatong</u> Name Signature	Tested by:  <u>Huang Meng</u> Name Signature	Approved by:  <u>Dong Sanbi</u> 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.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FCCSZ2023-0009-RF2	Original release	2023.09.26

1 SUMMARY OF TEST RESULTS

The EU has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPARTE (SECTION 15.407), Canada RSS-247, Canada RSS-Gen			
STANDARD SECTION	TEST TYPE	RESULT	REMARK
FCC 15.207 RSS-Gen 8.8	AC Power Conducted Emission	PASS	See section 3.1
FCC 15.403(i) RSS-247 6.2.4 (1)	6dB&26dB Emission Bandwidth	PASS	Appendix A1&A3 of FCCSZ2023-0009-RF2-A1
RSS-Gen 6.7	Occupied Bandwidth Measurement	PASS	Appendix A2 of FCCSZ2023-0009-RF2-A1
FCC 15.407(b) RSS-247 6.2.1 (2) RSS-247 6.2.2 (2) RSS-247 6.2.3 (2) RSS-247 6.2.4 (2)	Radiated Emission and Bandedge	PASS	See section 3.2
FCC 15.407(a) RSS-247 6.2.1 (1) RSS-247 6.2.2 (1) RSS-247 6.2.3 (1) RSS-247 6.2.4 (1)	Transmit Power	PASS	Appendix C of FCCSZ2023-0009-RF2-A1
FCC 15.407(a) RSS-247 6.2.1 (1) RSS-247 6.2.2 (1) RSS-247 6.2.3 (1) RSS-247 6.2.4 (1)	Power Spectral Density	PASS	Appendix D of FCCSZ2023-0009-RF2-A1
FCC 15.407(g) RSS-Gen 8.11 RSS-Gen 6.11	Frequency Stability	PASS	Appendix E of FCCSZ2023-0009-RF2-A1
FCC 15.203 FCC 15.407(a) RSS-Gen 6.8	Antenna Requirement	PASS	See section 3.9

Note: refer to DFS report (Report No. FCCSZ2023-0009-RF3)

1.1 LIST OF TEST AND MEASUREMENT INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial Number	Cal. interval	Cal. Due
WIFI & Bluetooth Test System					/
Signal&Spectrum Analyzer	Rohde&Schwarz	FSV 30	104408	1 year	2024.5.21
#3Shielding room	MORI	443	N/A	3 year	2026.5.16
Wideband radio communication tester	Rohde&Schwarz	CMW 500	168778	1 year	2024.5.25
Analog signal Generator (100kHz ~ 40GHz)	Rohde&Schwarz	SMB 100A	181934	1 year	2024.5.21
Vector signal Generator (9kHz ~ 6GHz)	Keysight	N5182B	MY57301451	1 year	2024.4.25
Vector signal Generator (9kHz ~ 6GHz)	Rohde&Schwarz	SGT 100A	111724	1 year	2024.5.21
RF control unit(BT/WiFi)	Tonscend	JS0806-2-8CH	20E8060261	1 year	2024.5.21
Radiation Spurious(Above 1GHz)					/
Signal&Spectrum Analyzer	Rohde&Schwarz	FSV 40	101898	1 year	2024.5.21
EMI Test Receiver	Rohde&Schwarz	ESR3	102693	1 year	2024.5.25
Antenna(30MHz~1001MHz)	SCHWARZBECK	VULB 9168	1133	1 year	2024.2.21
Horn antenna(1GHz-18GHz)	ETS	3117	227611	1 year	2024.3.25
Horn antenna(18GHz-40GHz)	QMS	QMS-00880	22051	1 year	2024.3.25
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	2024.5.21
Filter group(RSE-Cellular)	Rohde&Schwarz	Cellular Variant 1	100768	1 year	2024.5.21
Preamplifier(10kHz-1GHz)	Rohde&Schwarz	SCU-01F	100299	1 year	2024.5.21
Preamplifier(1GHz-18GHz)	Rohde&Schwarz	SCU-18F	100799	1 year	2024.5.21
Preamplifier(1GHz-18GHz)	Rohde&Schwarz	SCU-18F	100801	1 year	2024.5.21
Preamplifier(18Gz-40GHz)	Rohde&Schwarz	SCU-40A	101209	1 year	2024.5.21
#2 control room	MORI	433	CS0300028	3 year	2024.5.21
Temperature and humidity meter	/	C193561517	C193561517	1 year	2024.5.21
Radiation Spurious(Below 1GHz)					/
EMI Test Receiver	Rohde&Schwarz	ESR 26	101718	1 year	2024.5.25
Loop antenna (8.3k~30MHz)	Rohde&Schwarz	HFH2-Z2E	100951	1 year	2024.5.26
Antenna(30MHz~1000MHz)	SCHWARZBECK	VULB 9168	1132	1 year	2024.2.14
3m anechoic chamber	MORI	966	CS0200019	3 year	2026.5.18
Attenuator	/	SJ-5dB	607684	1 year	2024.2.21
#1 control room	MORI	433	CS0300028	3 year	2026.5.16
Temperature and humidity meter	/	C193561473	CS0200071	1 year	2024.5.21
Conducted emission					/
EMI Test Receiver	Rohde&Schwarz	ESR3	102694	1 year	2024.5.25
limiter (10 dB)	Rohde&Schwarz	ESH3-Z2	102824	1 year	2024.5.16
Voltage probe	Rohde&Schwarz	CVP9222C	28	1 year	2024.5.16
Current probe	Rohde&Schwarz	EZ-17	101442	1 year	2024.5.21
ISN network	Rohde&Schwarz	ENV 81	100401	1 year	2024.5.16
ISN network	Rohde&Schwarz	ENV 81 Cat6	101896	1 year	2024.5.16
LISN (single-phase)	Rohde&Schwarz	ENV216	102569	1 year	2024.4.11
#1Shielding room	MORI	854	N/A	3 year	2026.5.16

1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Measurement Uncertainty
1	Conducted emission test	+/-2.7 dB
2	Radiated emission 9kHz-30MHz	+/-5.6 dB
3	Radiated emission 30MHz-1GHz	+/-4.6 dB
4	Radiated emission 1GHz-18GHz	+/-4.4 dB
5	Radiated emission 18GHz-40GHz	+/-5.1 dB
6	Occupied Bandwidth	+/-1.86%
Remark: 95% Confidence Levels, k=2.		

1.3 TEST LOCATION

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

CABID:CN0137

Lab Address: No. 1301, Guanguang Road, Xinlan Community, Guanlan Street, Longhua District, Shenzhen City, Guangdong Province 518110 P.R.China

Post Code: 518110 Tel: 0755-23763060-8805

Fax: 0755-23763060 E-mail: sz-kf@cvc.org.cn

<http://www.cvc.org.cn>

2 GENERAL INFORMATION

2.1 GENERAL PRODUCT INFORMATION

PRODUCT	Module		
BRAND	AI-Link		
TEST MODEL	AL-8731B-WG-A		
ADDITIONAL MODEL	WF-R31B-UWD1		
POWER SUPPLY	DC 3.3V from host unit		
MODULATION TECHNOLOGY	OFDM		
MODULATION TYPE	64QAM, 16QAM, QPSK, BPSK for OFDM		
TRANSFER RATE	802.11a: up to 54Mbps, 802.11n: up to 150Mbps		
OPERATING FREQUENCY AND MAXIMUM POWER	Frequency	MAX output power(dBm)	MAX.EIPR(dBm)
	5180 ~ 5240MHz	15.38	19.93
	5260 ~ 5320MHz	17.43	21.98
	5500 ~ 5720MHz	17.94	22.04
	5745 ~ 5825MHz	16.44	20.99
NUMBER OF CHANNEL	See item 2.3		
ANTENNA TYPE(NOTE 5,7)	ANT1:PIFA Antenna with gain 4.55dBi ANT2:PIFA Antenna with gain 2.88dBi More antenna information see section 2.2		
HARDWARE REVISION	JU17.820.1171-3		
SOFTWARE REVISION	v5.13.0.1		
FIX FREQUENCY SOFTWARE	REALTEK MPTool		
I/O PORTS	Refer to user's manual		
CABLE SUPPLIED	N/A		

NOTE:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
- EUT photo refer to report (Report NO.: FCCSZ2023-0009-EUT).
- RSS-247 For the band 5600-5650 MHz, no operation is permitted. Until further notice, devices subject to this annex shall not be capable of transmitting in the band 5600-5650 MHz. This restriction is for the protection of Environment Canada weather radars operating in this band.
- Since the above data and/or information is provided by the client, CVC is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.
- AL-8731B-WG-A and WF-R31B-UWD1 are electrical identical including the same software parameter and hardware design (i.e., circuit design, PCB Layout, RF module/circuit, antenna type(s) and antenna location, components on PCB, etc.), same mechanical structure and design (including product enclosure, materials, etc.), the only difference is the model name.
- At the same time, EUT provides a complete transmitter and a receiver. ANT1 and ANT2 cannot be

transmitted simultaneously.

Mode 1 ANT1:

MODULATION MODE	TX FUNCTION
802.11a	1TX/1RX
802. 11n	1TX/1RX

Mode 2 ANT2:

MODULATION MODE	TX FUNCTION
802.11a	1TX/1RX
802. 11n	1TX/1RX

2.2 ANTENNA INFORMATION

Antenna 1 has four different manufacturers of antennas, and antenna 2 has only one manufacturer

Antenna1

NUMBER		1#
MANUFACTURER		B&T
ANTENNA TYPE		PIFA Antenna
MODEL		TX-DM200BD113B63M
PEAK GIAN	2.4G	2.18dBi
	5G	4.33dBi

NUMBER		2#
MANUFACTURER		Yishengbang
ANTENNA TYPE		PIFA Antenna
MODEL		TX-DM200BD113Y63M
PEAK GIAN	2.4G	4.29dBi
	5G	4.55dBi

NUMBER		3#
MANUFACTURER		Jiexuntong
ANTENNA TYPE		PIFA Antenna
MODEL		TX-DM200BD113Y63M
PEAK GIAN	2.4G	3.92dBi
	5G	2.66dBi

NUMBER		4#
MANUFACTURER		JINGHONG
ANTENNA TYPE		PIFA Antenna
MODEL		TX-DM300BD113JH63M
PEAK GIAN	2.4G	2.72dBi
	5G	1.51dBi

Antenna2

MANUFACTURER		WALSIN
ANTENNA TYPE		PIFA Antenna
MODEL		RFMTA170900NNLB003
PEAK GIAN	2.4G	3.68dBi
	5G	2.88dBi

Note: For the test results, the EUT had been tested with all Antenna. Only the worst case(**Antenna1 2#**) was shown in test report

2.3 CARRIER FREQUENCY AND CHANNEL

FOR 5180 ~ 5320MHz

8 channels are provided for 802.11a, 802.11n (HT20):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
36	5180MHz	40	5200MHz
44	5220 MHz	48	5240MHz
52	5260MHz	56	5280MHz
60	5300MHz	64	5320MHz

4 channels are provided for 802.11n (HT40):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190MHz	46	5230 MHz
54	5270MHz	62	5310MHz

WLAN 5.50 ~ 5.72GHz

9 channels are provided for 802.11a, 802.11n (HT20):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
100	5500MHz	124	5620MHz
104	5520MHz	128	5640MHz
108	5540MHz	132	5660MHz
112	5560MHz	136	5680MHz
116	5580MHz	140	5700MHz
120	5600MHz	144	5720MHz

4 channels are provided for 802.11n (HT40):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
102	5510MHz	126	5630MHz
110	5550MHz	134	5670MHz
118	5590MHz	142	5710MHz

FOR 5745 ~ 5825MHz

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

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

2 channels are provided for 802.11n (HT40):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
151	5755MHz	159	5795MHz

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.

By means of test software which provided by manufacture, the power levels during the tests were set according to the following codes:

Operated in 5180 ~ 5320MHz band					
802.11a		802.11n(HT20)		802.11n(HT40)	
FREQUENCY(MHZ)	POWER SETTING	FREQUENCY(MHZ)	POWER SETTING	FREQUENCY(MHZ)	POWER SETTING
5180	102	5180	103	5190	98
5200	102	5200	103	5230	98
5240	102	5240	103	5270	98
5260	106	5260	110	5310	98
5280	106	5280	110	5510	98
5320	106	5320	110	5590	98
5500	106	5500	110	5670	98
5600	106	5600	110	5710	98
5700	106	5700	110	5755	98
5720	106	5720	110	5795	98
5745	106	5745	110	/	/
5785	106	5785	110	/	/
5825	106	5825	110	/	/

2.4 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE $\geq$ 1G	RE<1G	PLC	APCM	
-	√	√	√	√	Powered by host unit with wifi(5G) link

Where **RE $\geq$ 1G**: Radiated Emission above 1GHz **RE<1G**: Radiated Emission below 1GHz
PLC: Power Line Conducted Emission **APCM**: Antenna Port Conducted Measurement

NOTE:

1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **X-plane**.

NOTE: "-" means no effect.

MODULATION	DATA RATE
802.11a	6Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE<1G	25deg. C, 54%RH	DC 3.3V from host unit	Liu Yuan
RE$\geq$1G	25deg. C, 54%RH	DC 3.3V from host unit	Liu Yuan
PLC	20deg. C, 56%RH	DC 3.3V from host unit	Wang Zhiming
APCM	20deg. C, 55%RH	DC 3.3V from host unit	Liang Jiatong

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	Laptop	Lenovo	K4e-ARE120	MP20kshe	Lab		
Support Cable							
NO	Description	Quantity (Number)	Length (cm)	Detachable (Yes/ No)	Shielded (Yes/ No)	Cores (Number)	Supplied by
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

2.6 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 E (15.407)

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

Canada RSS-247 Issue 3 (2023-08)

Canada RSS-Gen Issue 5+A1+A2 (2021-02)

ANSI C63.10-2013

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

3 TEST TYPES AND RESULTS

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB μ V)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

NOTE:1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

3.1.2 TEST PROCEDURES

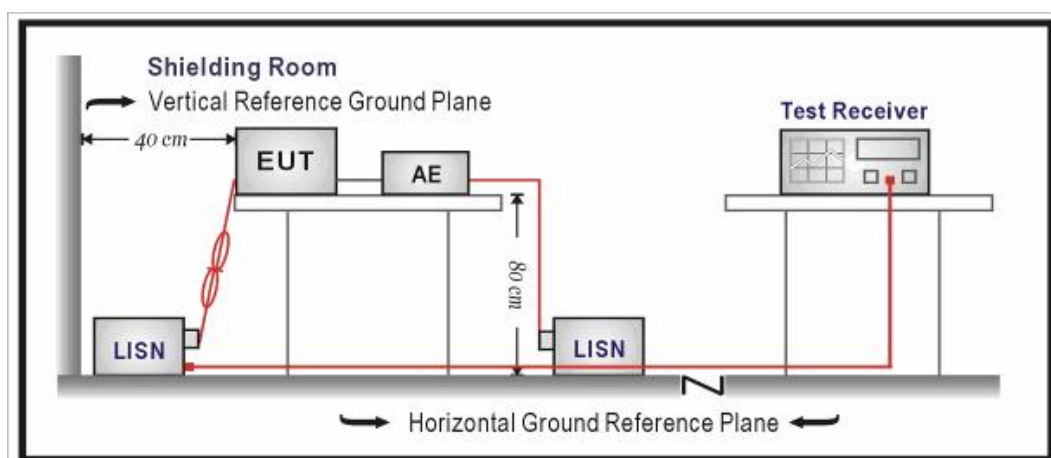
a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.

b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) were not recorded.

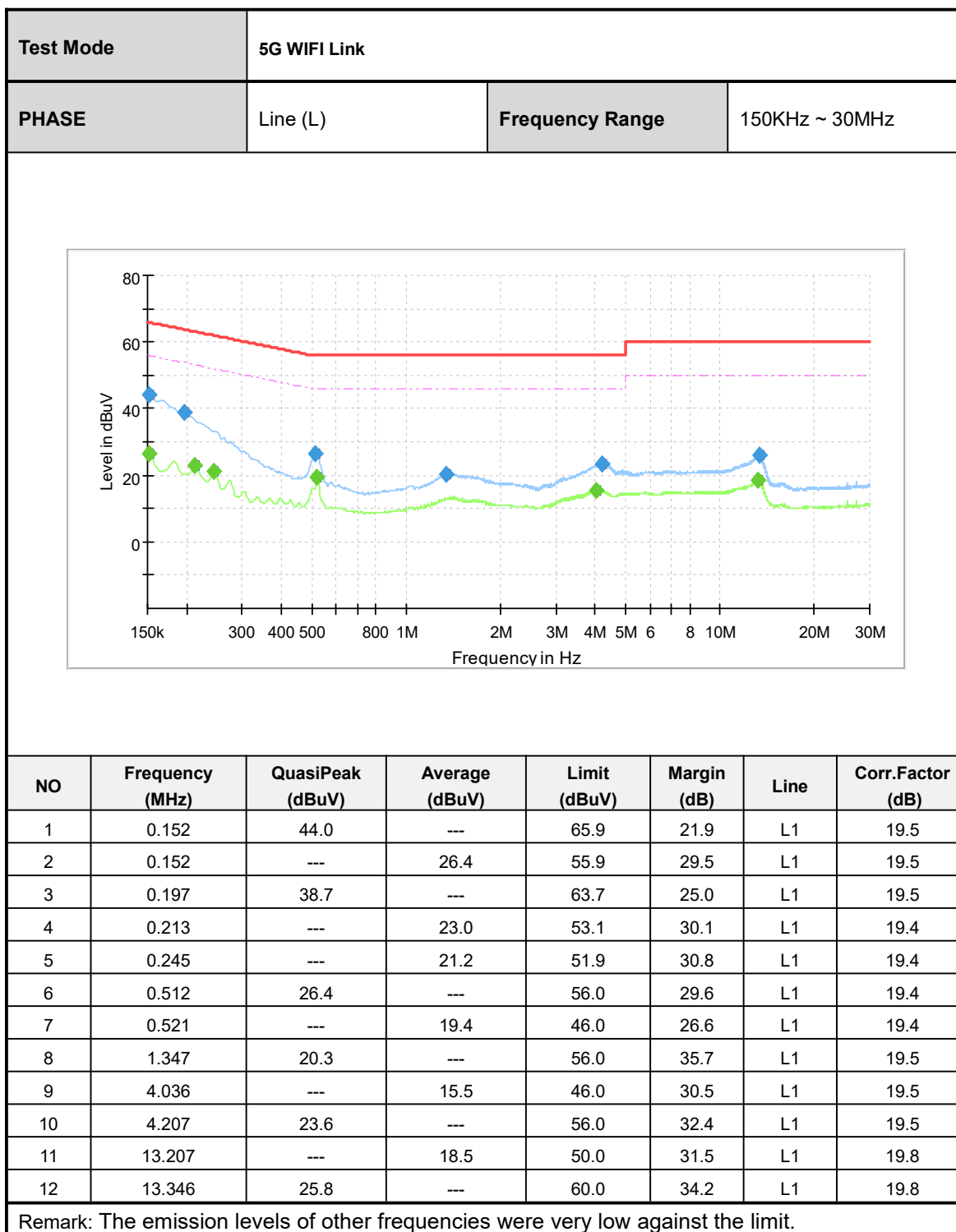
NOTE: All modes of operation were investigated and the worst-case emissions are reported.

3.1.3 TEST SETUP

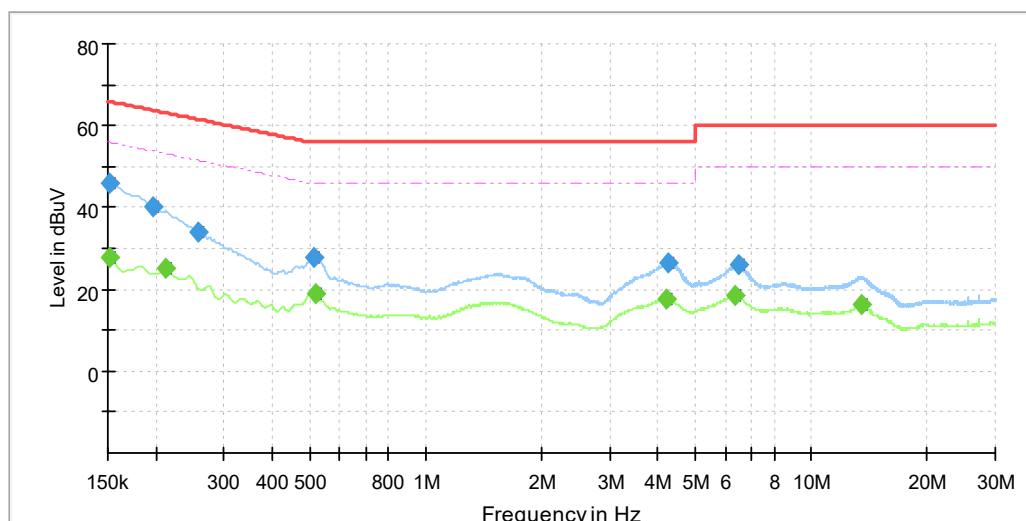


NOTE: For the actual test configuration, please refer to the attached file (Test Setup Photo).

3.1.4 TEST RESULTS



Test Mode	5G WIFI Link		
PHASE	Line (N)	Frequency Range	150KHz ~ 30MHz



NO	Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr.Factor (dB)
1	0.152	46.0	---	65.9	19.8	N	19.5
2	0.152	---	27.7	55.9	28.2	N	19.5
3	0.197	40.3	---	63.7	23.5	N	19.5
4	0.213	---	24.9	53.1	28.1	N	19.5
5	0.258	34.1	---	61.5	27.4	N	19.4
6	0.512	27.9	---	56.0	28.1	N	19.5
7	0.521	---	19.0	46.0	27.0	N	19.5
8	4.225	---	17.5	46.0	28.5	N	19.6
9	4.259	26.5	---	56.0	29.5	N	19.6
10	6.376	---	18.3	50.0	31.7	N	19.6
11	6.459	26.1	---	60.0	33.9	N	19.6
12	13.490	---	16.4	50.0	33.6	N	20.0

Remark: The emission levels of other frequencies were very low against the limit.

3.2 RADIATED EMISSION AND BANDEDGE MEASUREMENT

3.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

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.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. 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 30dB under any condition of modulation.

3.1.2 LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

APPLICABLE TO	LIMIT	
KDB 789033 D02 General UNII Test Procedures New Rules v02r01	FIELD STRENGTH AT 3m	
	PK:74 (dBμV/m)	AV:54 (dBμV/m)
APPLICABLE TO	EIRP LIMIT	EQUIVALENT FIELD STRENGTH AT 3m
15.407(b)(1)	PK:-27 (dBm/MHz)	PK:68.2(dBμV/m)
15.407(b)(2)		
15.407(b)(3)		
15.407(b)(4)	Note	Note

NOTE:

For transmitters operating in the 5.725-5.85 GHz band:Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). An alternative to the band emissions mask is specified in Section 15.407(b)(4)(ii). The alternative limits are based on the highest antenna gain specified in the filing. There are also marketing and importation restrictions for the alternative limit.

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

The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts).}$$

3.1.3 TEST PROCEDURES

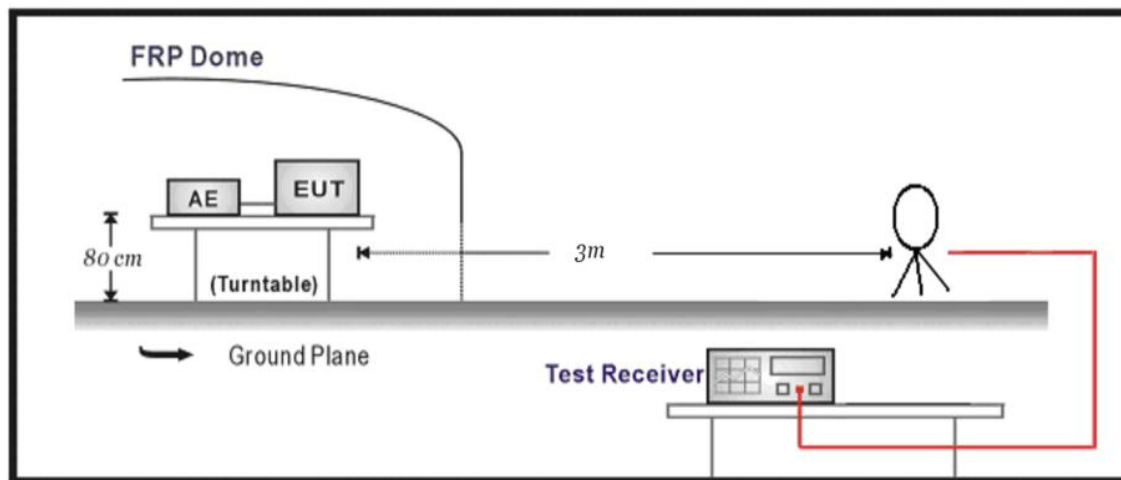
- a. The EUT was placed on the top of a rotating table 1.5 meters(above 1GHz)and 0.8 meters(below 1GHz) above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband 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.
- d. 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.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTE:

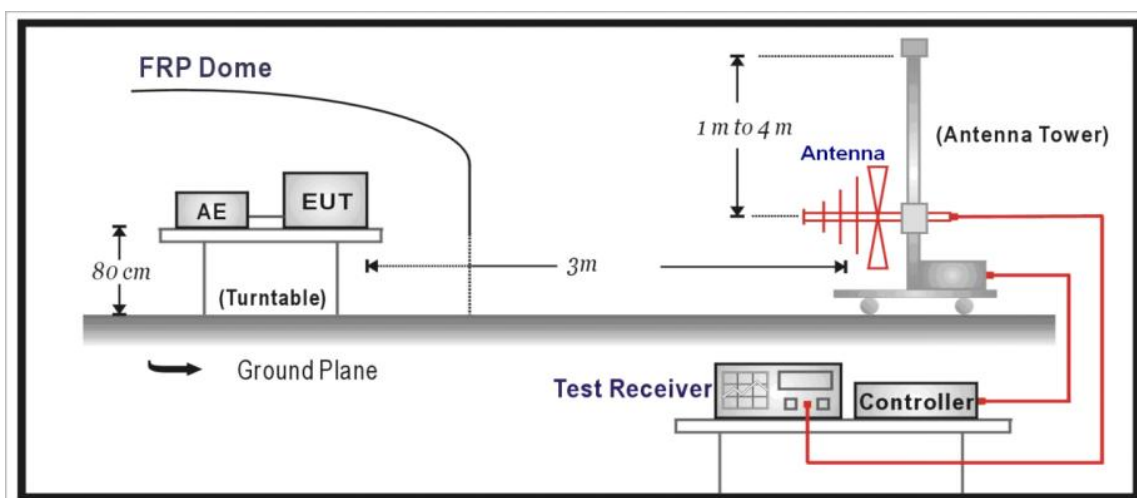
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution 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.

3.1.4 TEST SETUP

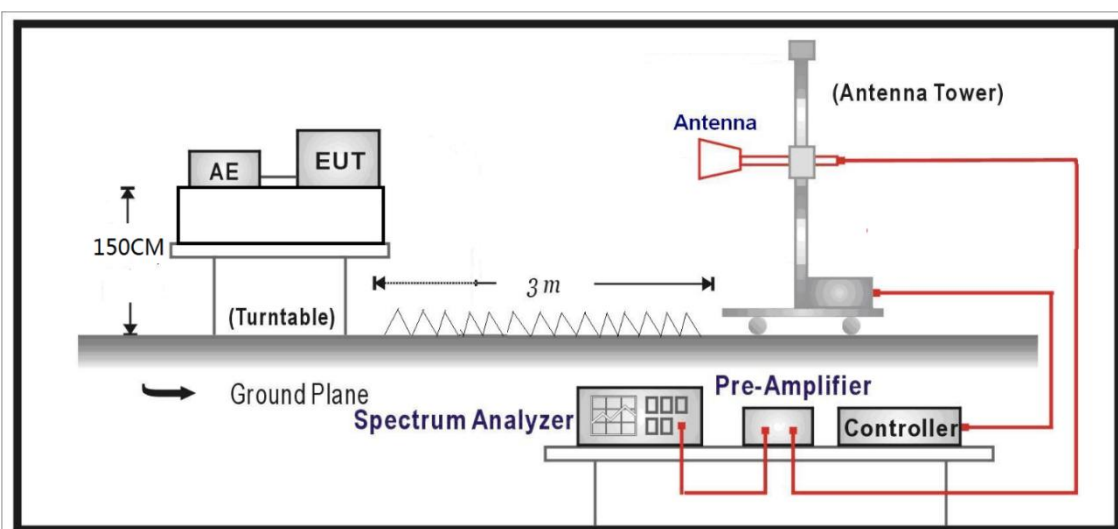
Below 30MHz Test Setup:



Below 1GHz Test Setup:

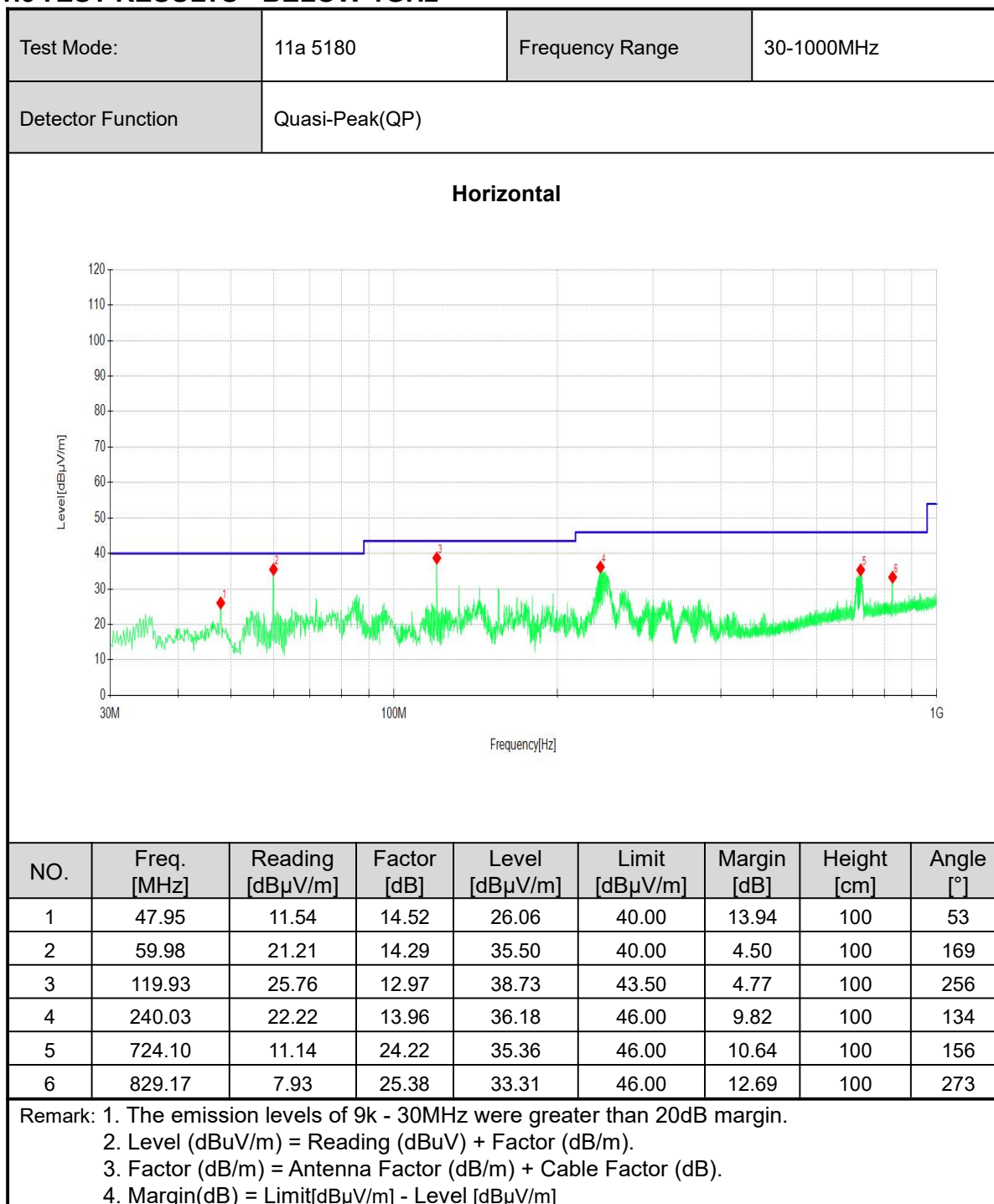


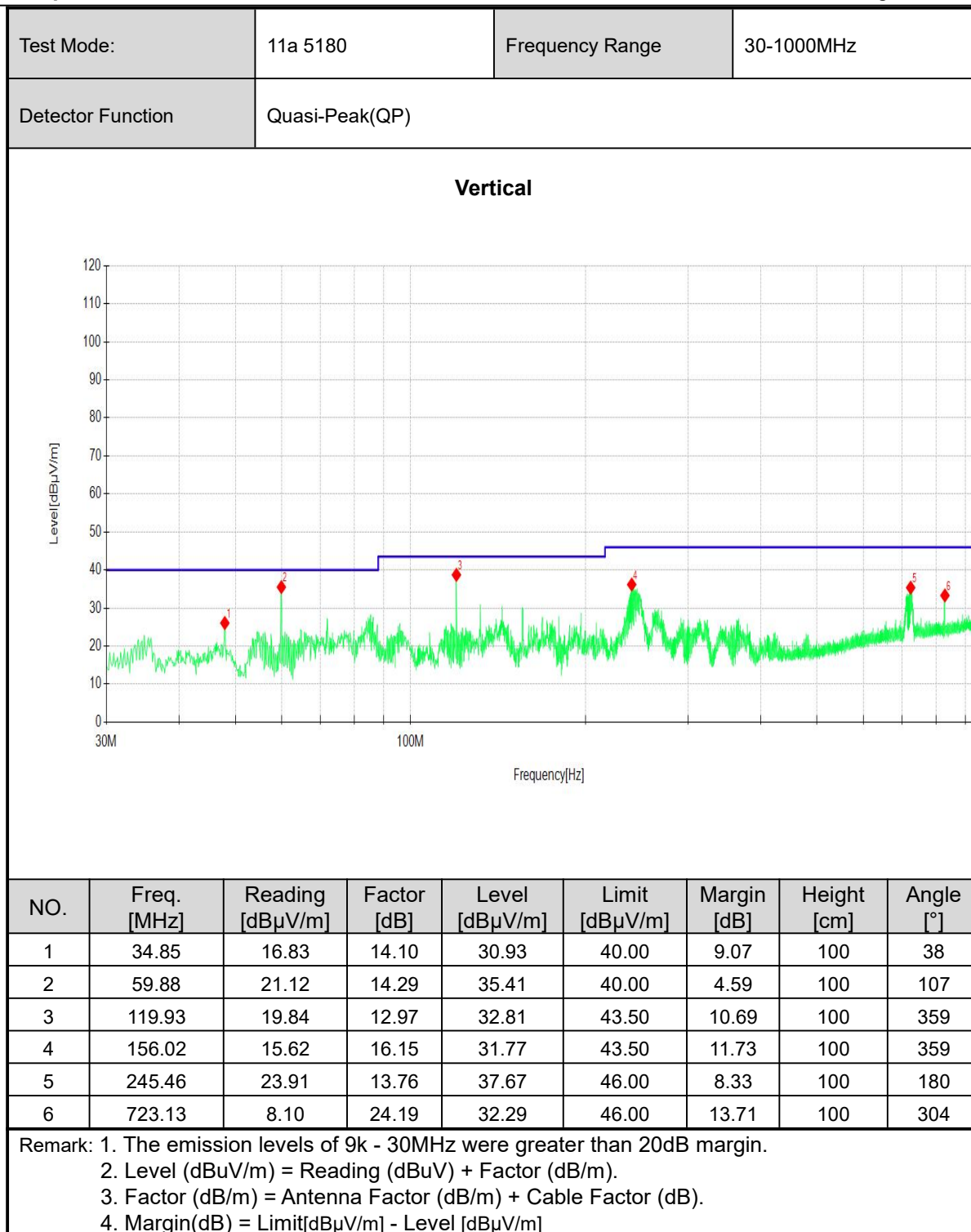
Above 1GHz Test Setup:



Note: For the actual test configuration, please refer to the related Item in this test report (Photographs of the Test Setup)

3.1.5 TEST RESULTS - BELOW 1GHz





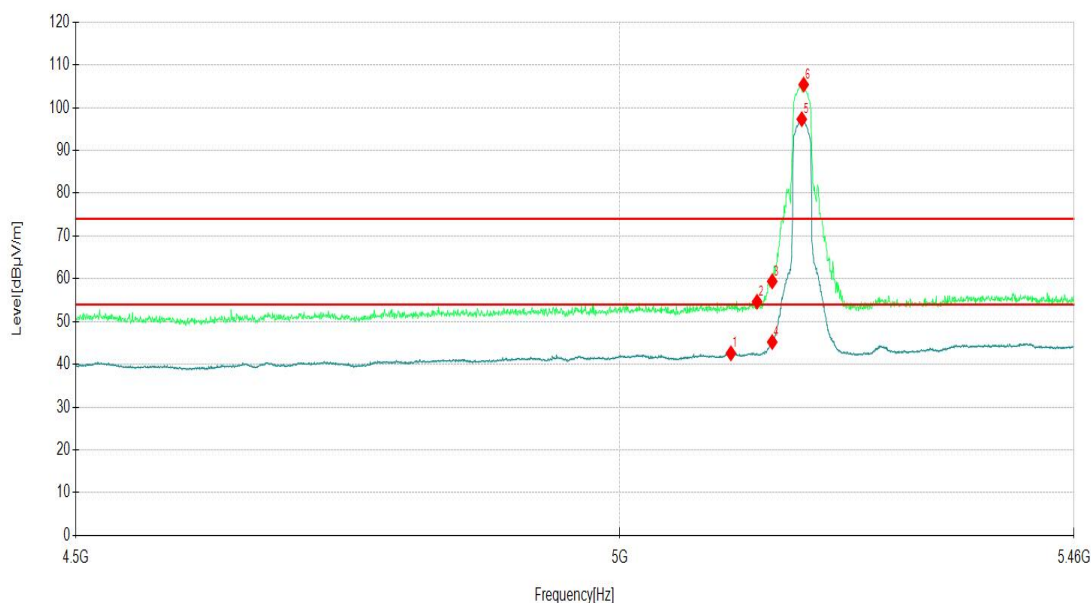
3.1.6 TEST RESULTS - Band 1 (5180-5240MHz):

ABOVE 1GHz DATA

Channel	802.11a 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]	Height [cm]	Angle [°]	Detector
1	5108.94	34.55	8.03	42.58	54.00	11.42	300	306	AV
2	5134.88	46.54	8.10	54.64	74.00	19.36	300	24	PK
3	5150.00	51.36	8.03	59.39	74.00	14.61	400	145	PK
4	5150.00	37.19	8.03	45.22	54.00	8.78	400	150	AV
5	5179.54	89.38	7.92	97.30			300	154	AV
6	5181.46	97.50	7.88	105.38			300	152	PK
7	10360.00	33.34	16.24	49.58	68.20	18.62	400	207	PK
8	10360.00	23.33	16.24	39.57	54.00	14.43	400	207	AV
9	15540.00	29.59	19.20	48.79	74.00	25.21	400	184	PK
10	15540.00	18.07	19.20	37.27	54.00	16.73	400	180	AV

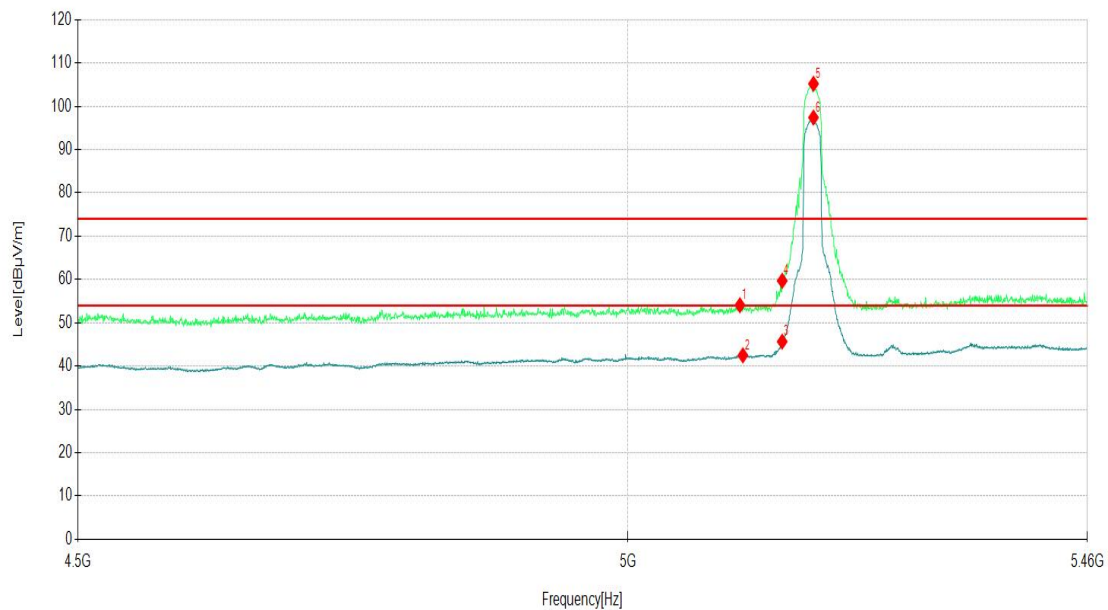


Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
 2. Level (dBμV/m) = Reading (dBμV) + Factor (dB/m).
 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

Channel	802.11a 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]	Height [cm]	Angle [°]	Detector
1	5108.46	46.07	8.00	54.07	74.00	19.93	200	224	PK
2	5111.35	34.44	8.04	42.48	54.00	11.52	200	258	AV
3	5150.00	37.63	8.03	45.66	54.00	8.34	300	323	AV
4	5150.00	51.67	8.03	59.70	74.00	14.30	300	45	PK
5	5180.98	97.30	7.89	105.19			100	323	PK
6	5180.98	89.51	7.89	97.40			100	325	AV
7	10360.31	24.68	16.24	40.92	54.00	13.08	300	234	AV
8	10363.82	34.49	16.26	50.75	68.20	17.45	300	237	PK
9	15536.90	23.51	19.19	42.70	54.00	11.30	300	146	AV
10	15542.75	33.56	19.25	52.81	74.00	21.19	300	150	PK



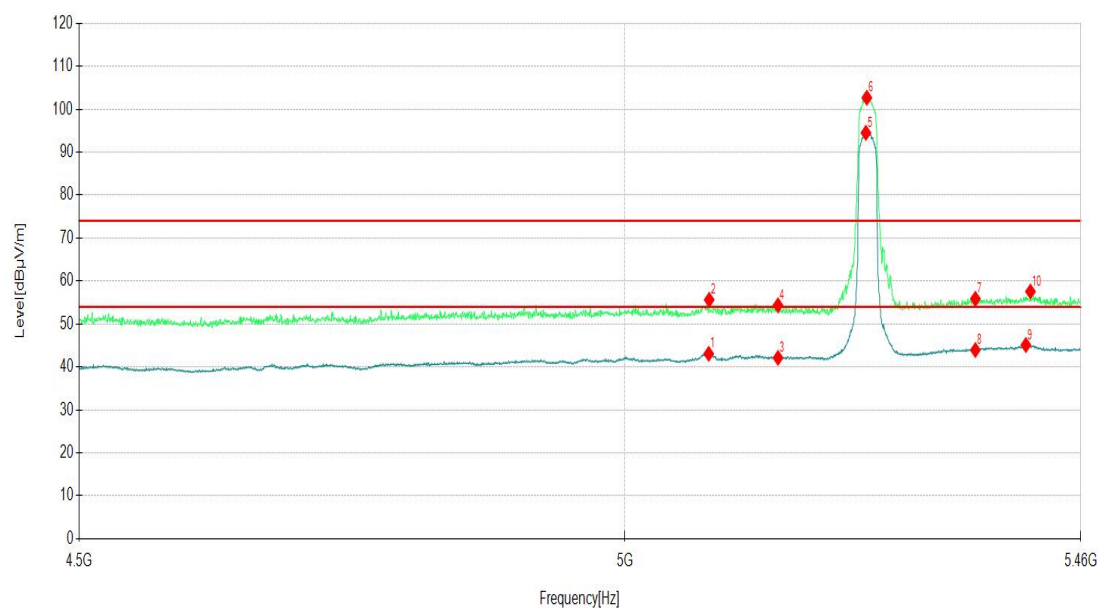
Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
 2. Level (dBμV/m) = Reading (dBμV) + Factor (dB/m).
 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

Channel		802.11a CH 40		Frequency		5220MHz			
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]	Height [cm]	Angle [°]	Detector
1	10397.75	32.07	16.50	48.57	68.20	19.63	200	189	PK
2	10400.09	21.61	16.52	38.13	54.00	15.87	200	206	AV
3	15595.41	28.50	19.48	47.98	74.00	26.02	100	213	PK
4	15604.77	17.38	19.55	36.93	54.00	17.07	100	206	AV
Vertical									
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	10394.24	34.77	16.46	51.23	68.20	16.97	200	237	PK
2	10400.09	24.95	16.52	41.47	54.00	12.53	200	237	AV
3	15600.09	20.87	19.44	40.31	54.00	13.69	200	148	AV
4	15603.60	31.13	19.52	50.65	74.00	23.35	200	151	PK
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 CH48	Frequency	5240 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]	Height [cm]	Angle [°]	Detector
1	5238.13	86.28	8.22	94.50			400	162	AV
2	5239.09	94.45	8.21	102.66			400	45	PK
3	5350.00	45.90	9.96	55.86	74.00	18.14	200	110	PK
4	5350.00	33.99	9.96	43.95	54.00	10.05	200	269	AV
5	5402.37	35.02	10.08	45.10	54.00	8.90	100	139	AV
6	5407.17	47.34	10.21	57.55	74.00	16.45	100	252	PK
7	10480.0000	27.01	14.45	41.46	68.20	26.74	400	324	PK
8	10480.0000	18.03	14.45	32.48	54.00	21.52	400	136	AV
9	15720.0000	22.42	20.55	42.97	74.00	31.03	400	69	PK
10	15720.0000	13.52	20.55	34.07	54.00	19.93	400	26	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 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]	Height [cm]	Angle [°]	Detector
1	5150.00	34.25	8.03	42.28	54.00	11.72	200	153	AV
2	5150.00	46.01	8.03	54.04	74.00	19.96	200	206	PK
3	5238.61	96.61	8.22	104.83			200	74	PK
4	5241.01	89.15	8.22	97.37			200	74	AV
5	5350.00	34.02	9.96	43.98	54.00	10.02	200	317	AV
6	5350.00	44.84	9.96	54.80	74.00	19.20	200	198	PK
7	10477.32	31.85	16.77	48.62	68.20	19.58	200	279	PK
8	10482.00	21.27	16.73	38.00	54.00	16.00	200	239	AV
9	15202.25	15.51	20.17	35.68	54.00	18.32	100	190	AV
10	15711.25	29.03	20.25	49.28	74.00	24.72	100	149	PK

Level[dBμV/m]

Frequency[Hz]

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

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

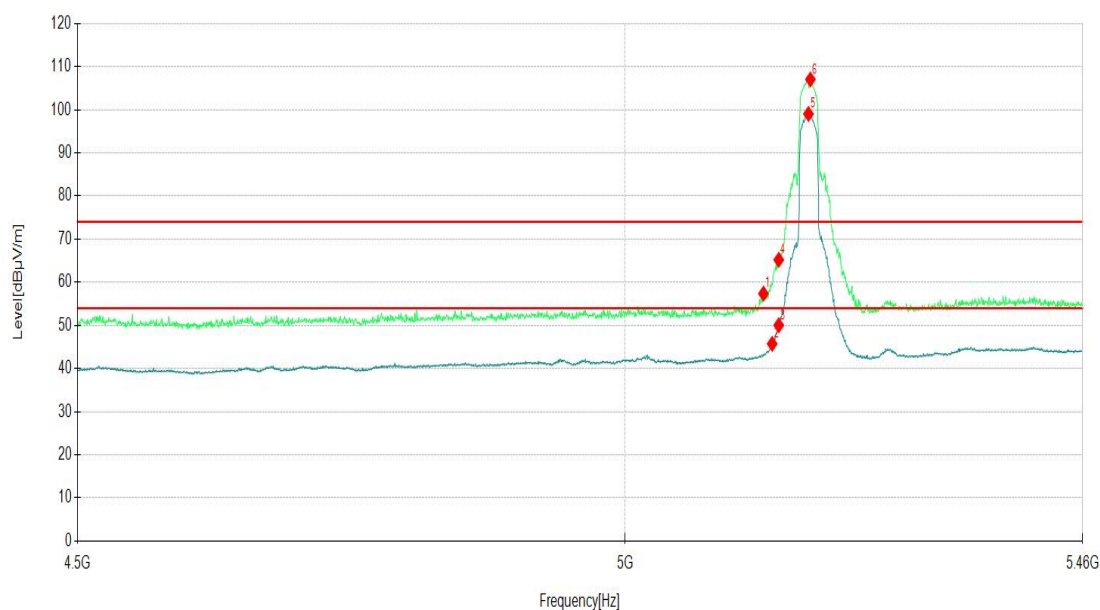
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).

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

Channel	802.11n20CH36	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]	Height [cm]	Angle [°]	Detector
1	5134.88	49.27	8.10	57.37	74.00	16.63	100	160	PK
2	5143.52	37.75	7.97	45.72	54.00	8.28	100	154	AV
3	5150.00	42.01	8.03	50.04	54.00	3.96	200	152	AV
4	5150.00	57.18	8.03	65.21	74.00	8.79	200	152	PK
5	5179.54	91.11	7.92	99.03			100	154	AV
6	5181.46	99.14	7.88	107.02			100	154	PK
7	10355.63	36.28	16.22	52.50	68.20	15.70	400	210	PK
8	10360.31	25.12	16.24	41.36	54.00	12.64	400	213	AV
9	15540.41	21.64	19.20	40.84	54.00	13.16	100	190	AV
10	15547.43	33.11	19.33	52.44	74.00	21.56	100	177	PK

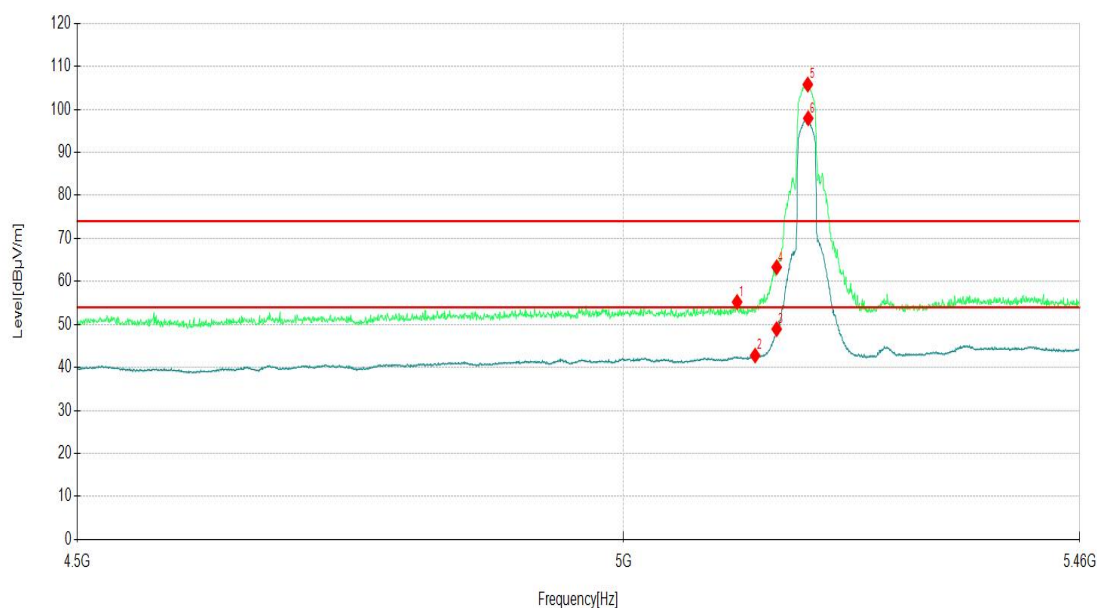


Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
 2. Level (dBμV/m) = Reading (dBμV) + Factor (dB/m).
 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

Channel	802.11n20CH36	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]	Height [cm]	Angle [°]	Detector
1	5110.87	47.16	8.05	55.21	74.00	18.79	200	92	PK
2	5128.63	34.59	8.19	42.78	54.00	11.22	200	63	AV
3	5150.00	40.89	8.03	48.92	54.00	5.08	300	47	AV
4	5150.00	55.27	8.03	63.30	74.00	10.70	300	42	PK
5	5180.98	97.88	7.89	105.77			100	44	PK
6	5181.46	90.04	7.88	97.92			100	328	AV
7	10356.80	35.54	16.22	51.76	68.20	16.44	200	236	PK
8	10362.65	25.24	16.25	41.49	54.00	12.51	200	240	AV
9	15535.73	34.69	19.19	53.88	74.00	20.12	200	146	PK
10	15536.90	24.21	19.19	43.40	54.00	10.60	200	146	AV



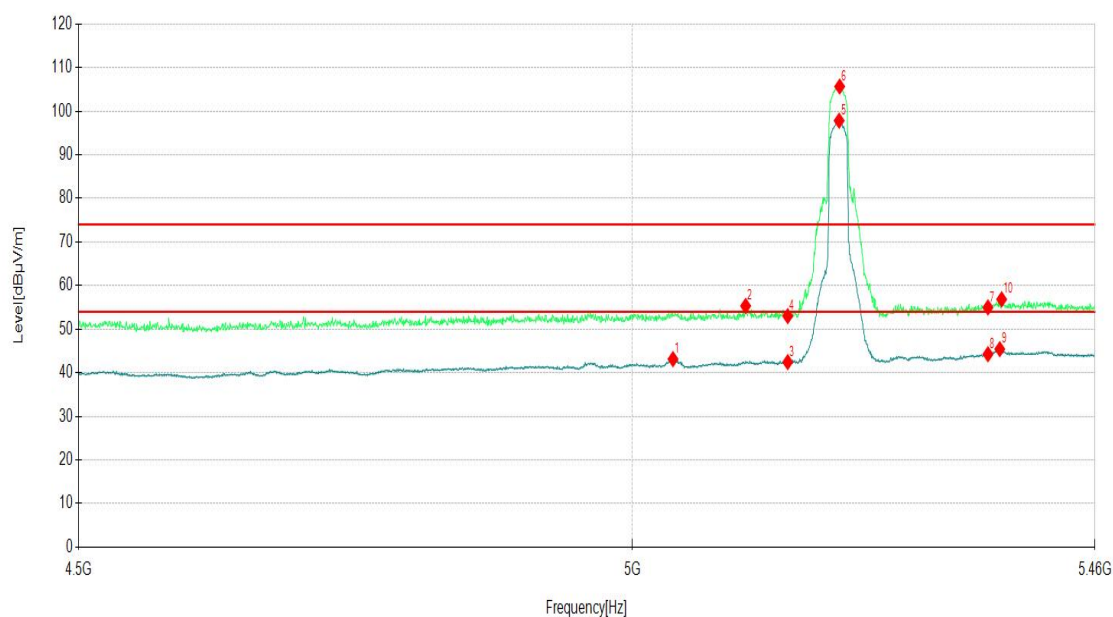
Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
 2. Level (dBμV/m) = Reading (dBμV) + Factor (dB/m).
 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

Channel		802.11n20CH40			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]	Height [cm]	Angle [°]	Detector
1	10398.92	34.60	16.51	51.11	68.20	17.09	300	222	PK
2	10398.92	23.68	16.51	40.19	54.00	13.81	300	222	AV
3	15601.26	20.54	19.47	40.01	54.00	13.99	300	205	AV
4	15605.94	30.81	19.57	50.38	74.00	23.62	300	198	PK
Vertical									
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	10401.26	24.13	16.52	40.65	54.00	13.35	200	235	AV
2	10402.43	35.95	16.51	52.46	68.20	15.74	200	239	PK
3	15602.43	21.49	19.49	40.98	54.00	13.02	100	156	AV
4	15607.11	34.09	19.59	53.68	74.00	20.32	100	156	PK
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	802.11n20 CH48	Frequency	5240 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]	Height [cm]	Angle [°]	Detector
1	5200.67	90.11	7.70	97.81			400	98	AV
2	5201.15	97.90	7.74	105.64			400	98	PK
3	5350.00	45.03	9.96	54.99	74.00	19.01	400	359	PK
4	5350.00	34.30	9.96	44.26	54.00	9.74	400	64	AV
5	5362.03	35.40	10.02	45.42	54.00	8.58	200	94	AV
6	5363.95	46.83	10.01	56.84	74.00	17.16	200	128	PK
7	10396.58	33.49	16.48	49.97	68.20	18.23	100	182	PK
8	10402.43	23.11	16.51	39.62	54.00	14.38	100	228	AV
9	15594.24	31.69	19.49	51.18	74.00	22.82	400	192	PK
10	15597.75	20.37	19.46	39.83	54.00	14.17	400	198	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]

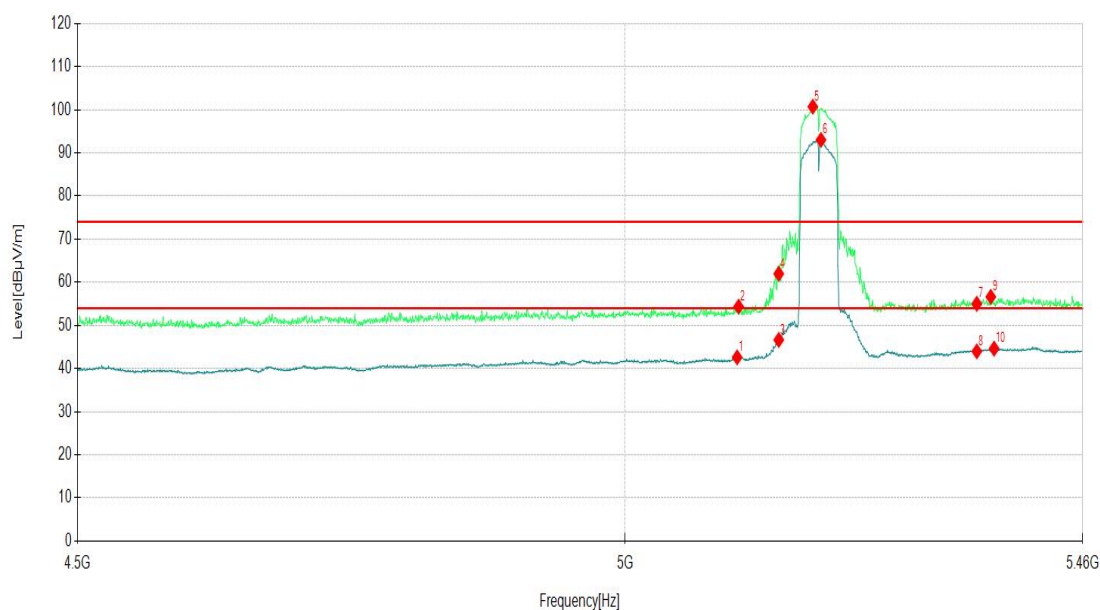
Channel		802.11n20 CH48		Frequency		5240 MHz			
Frequency Range		Above 1G		Detector Function		PK/AV			
Vertical									
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	5238.61	97.38	8.22	105.60			300	75	PK
2	5241.49	89.42	8.22	97.64			300	75	AV
3	5350.00	33.99	9.96	43.95	54.00	10.05	400	7	AV
4	5350.00	44.41	9.96	54.37	74.00	19.63	400	265	PK
5	5402.85	35.70	10.10	45.80	54.00	8.20	200	77	AV
6	5406.69	47.45	10.21	57.66	74.00	16.34	200	81	PK
7	10477.32	21.79	16.77	38.56	54.00	15.44	400	234	AV
8	10484.34	31.79	16.70	48.49	68.20	19.71	400	240	PK
9	15714.76	30.12	20.24	50.36	74.00	23.64	200	158	PK
10	15717.10	18.32	20.24	38.56	54.00	15.44	200	158	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	802.11n40 CH38	Frequency	5190 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]	Height [cm]	Angle [°]	Detector
1	5108.94	34.56	8.03	42.59	54.00	11.41	300	172	AV
2	5110.39	46.28	8.07	54.35	74.00	19.65	300	345	PK
3	5150.00	38.60	8.03	46.63	54.00	7.37	400	143	AV
4	5150.00	53.93	8.03	61.96	74.00	12.04	400	143	PK
5	5183.86	92.87	7.82	100.69			200	161	PK
6	5192.03	85.36	7.64	93.00			200	153	AV
7	10380.00	28.04	16.32	44.36	68.20	23.84	100	223	PK
8	10380.00	19.33	16.32	35.65	54.00	18.35	100	196	AV
9	15570.00	22.79	19.48	42.27	74.00	31.73	100	243	PK
10	15570.00	14.57	19.48	34.05	54.00	19.95	100	216	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		802.11n40 CH38		Frequency		5190 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]	Height [cm]	Angle [°]	Detector
1	5127.67	34.54	8.15	42.69	54.00	11.31	400	71	AV
2	5145.44	49.61	7.99	57.60	74.00	16.40	400	359	PK
3	5150.00	36.95	8.03	44.98	54.00	9.02	300	323	AV
4	5150.00	51.74	8.03	59.77	74.00	14.23	300	323	PK
5	5182.42	91.91	7.85	99.76			200	323	PK
6	5188.66	84.27	7.67	91.94			200	323	AV
7	10380.00	29.10	16.32	45.42	54.00	8.58	200	287	PK
8	10380.00	19.92	16.32	36.24	54.00	17.76	200	237	AV
9	15570.00	23.91	19.48	43.39	74.00	30.61	200	152	PK
10	15570.00	15.53	19.48	35.01	54.00	18.99	200	149	AV

Level[dBμV/m]

Frequency[Hz]

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

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

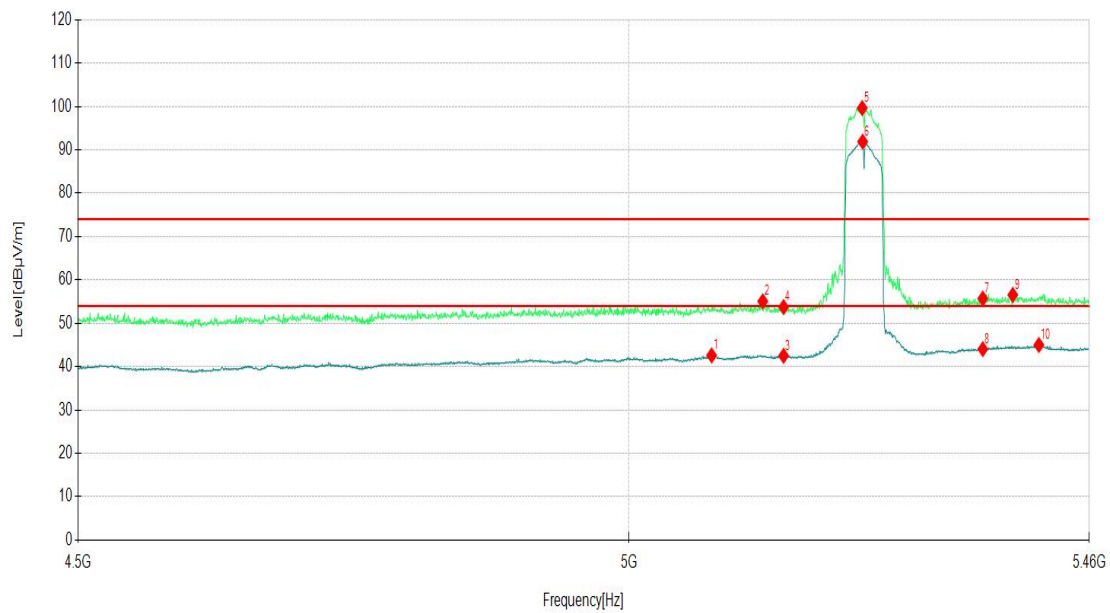
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).

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

Channel	802.11n40 CH46	Frequency	5230 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]	Height [cm]	Angle [°]	Detector
1	5228.04	91.42	8.20	99.62			400	45	PK
2	5228.52	83.68	8.20	91.88			400	48	AV
3	5350.00	45.74	9.96	55.70	74.00	18.30	400	272	PK
4	5350.00	34.08	9.96	44.04	54.00	9.96	400	148	AV
5	5380.76	46.42	10.12	56.54	74.00	17.46	300	338	PK
6	5407.65	34.77	10.23	45.00	54.00	9.00	300	96	AV
7	10460.00	26.34	16.86	43.20	68.20	25.00	400	355	PK
8	10460.00	18.12	16.86	34.98	54.00	19.02	400	204	AV
9	15690.00	13.98	20.19	34.17	54.00	19.83	200	360	AV
10	15690.00	22.84	20.19	43.03	74.00	30.97	200	16	PK



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		802.11n40 CH46		Frequency		5230 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]	Height [cm]	Angle [°]	Detector
1	5228.52	84.29	8.20	92.49			200	75	AV
2	5228.52	91.87	8.20	100.07			200	75	PK
3	5350.00	34.11	9.96	44.07	54.00	9.93	400	251	AV
4	5350.00	45.09	9.96	55.05	74.00	18.95	400	178	PK
5	5398.53	46.94	10.02	56.96	74.00	17.04	300	350	PK
6	5407.65	34.87	10.23	45.10	54.00	8.90	300	75	AV
7	10460.00	27.03	16.86	43.89	68.20	24.31	100	154	PK
8	10460.00	18.35	16.86	35.21	54.00	18.79	100	234	AV
9	15690.00	14.83	20.19	35.02	54.00	18.98	400	187	AV
10	15690.00	23.27	20.19	43.46	74.00	30.54	400	83	PK

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]

3.1.7 TEST RESULTS - Band 2 (5260-5320MHz):

ABOVE 1GHz DATA

Channel		802.11a CH52		Frequency		5260 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]	Height [cm]	Angle [°]	Detector
1	5095.02	34.95	7.57	42.52	54.00	11.48	200	162	AV
2	5116.15	46.50	7.88	54.38	74.00	19.62	200	87	PK
3	5150.00	34.00	8.03	42.03	54.00	11.97	200	332	AV
4	5150.00	44.94	8.03	52.97	74.00	21.03	200	267	PK
5	5259.26	89.77	9.28	99.05			200	143	AV
6	5261.18	97.46	9.27	106.73			200	100	PK
7	10514.76	30.49	16.52	47.01	68.20	21.19	100	187	PK
8	10519.44	20.40	16.54	36.94	54.00	17.06	100	201	AV
9	15773.27	25.98	20.26	46.24	74.00	27.76	300	194	PK
10	15780.29	15.69	20.24	35.93	54.00	18.07	300	201	AV

Level[dBμV/m]

Frequency[Hz]

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 CH52		Frequency		5260 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]	Height [cm]	Angle [°]	Detector
1	5080.61	34.54	7.81	42.35	54.00	11.65	200	42	AV
2	5086.37	45.95	7.68	53.63	74.00	20.37	200	7	PK
3	5150.00	34.25	8.03	42.28	54.00	11.72	400	160	AV
4	5150.00	45.04	8.03	53.07	74.00	20.93	400	9	PK
5	5259.26	90.31	9.28	99.59			200	76	AV
6	5261.18	98.17	9.27	107.44			200	76	PK
7	10520.61	22.41	16.52	38.93	54.00	15.07	200	240	AV
8	10522.95	31.60	16.48	48.08	68.20	20.12	200	167	PK
9	15775.61	17.16	20.26	37.42	54.00	16.58	400	143	AV
10	15782.63	28.51	20.24	48.75	74.00	25.25	400	157	PK

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).

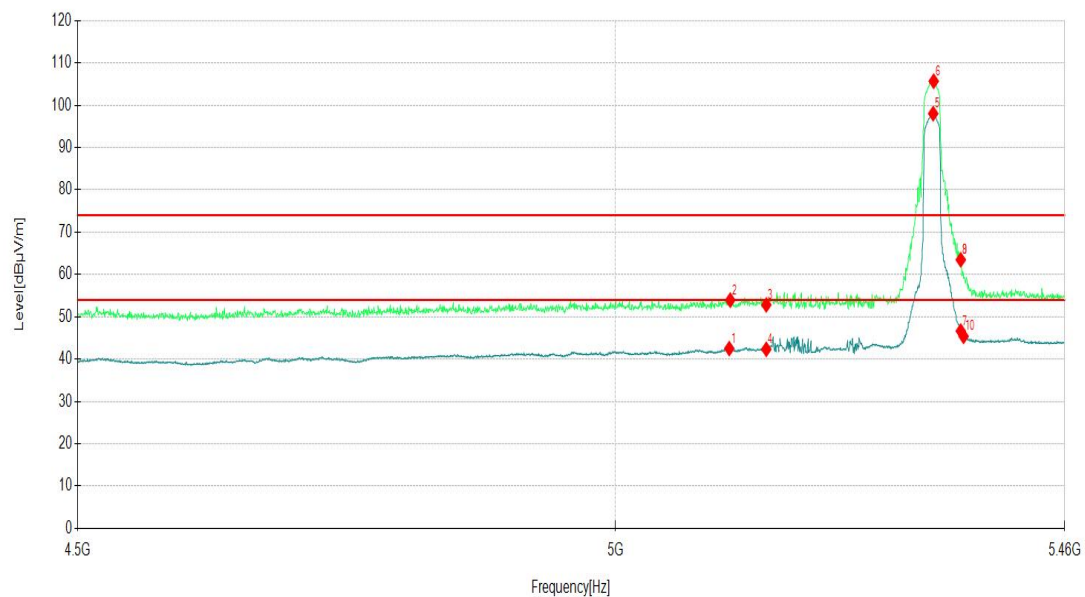
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

Channel		802.11a CH 56		Frequency		5260MHz			
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]	Height [cm]	Angle [°]	Detector
1	10554.55	22.51	16.31	38.82	54.00	15.18	400	208	AV
2	10562.74	30.76	16.25	47.01	68.20	21.19	400	152	PK
3	15836.45	27.53	20.10	47.63	74.00	26.37	100	205	PK
4	15843.47	17.18	20.12	37.30	54.00	16.70	100	198	AV
Vertical									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	10560.40	31.58	16.33	47.91	68.20	20.29	400	151	PK
2	10561.57	23.41	16.29	39.70	54.00	14.30	400	164	AV
3	15837.62	17.96	20.10	38.06	54.00	15.94	200	158	AV
4	15844.64	28.73	20.12	48.85	74.00	25.15	200	151	PK
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 CH64	Frequency	5320 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]	Height [cm]	Angle [°]	Detector
1	5321.21	88.97	9.04	98.01			400	47	AV
2	5321.69	96.61	9.06	105.67			400	47	PK
3	5350.00	36.69	9.96	46.65	54.00	7.35	100	52	AV
4	5350.00	53.52	9.96	63.48	74.00	10.52	100	47	PK
5	5350.03	53.52	9.96	63.48	74.00	10.52	200	47	PK
6	5352.91	35.40	9.99	45.39	54.00	8.61	200	138	AV
7	10639.96	30.88	15.80	46.68	74.00	27.32	400	207	PK
8	10642.30	21.15	15.79	36.94	54.00	17.06	400	213	AV
9	15958.15	16.13	20.61	36.74	54.00	17.26	400	187	AV
10	15964.00	26.56	20.58	47.14	74.00	26.86	400	207	PK



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 CH64	Frequency	5320 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]	Height [cm]	Angle [°]	Detector
1	5321.21	97.40	9.04	106.44			400	151	PK
2	5321.21	89.74	9.04	98.78			400	151	AV
3	5350.00	37.88	9.96	47.84	54.00	6.16	100	78	AV
4	5350.00	54.12	9.96	64.08	74.00	9.92	100	151	PK
5	5399.49	35.74	10.02	45.76	54.00	8.24	200	46	AV
6	5448.95	47.31	9.71	57.02	74.00	16.98	200	142	PK
7	10639.96	24.85	15.80	40.65	54.00	13.35	400	150	AV
8	10641.13	34.47	15.79	50.26	74.00	23.74	400	150	PK
9	15959.32	17.52	20.61	38.13	54.00	15.87	200	146	AV
10	15964.00	29.54	20.58	50.12	74.00	23.88	200	150	PK

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		802.11n20 CH52		Frequency		5260 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]	Height [cm]	Angle [°]	Detector
1	5095.02	46.82	7.57	54.39	74.00	19.61	100	170	PK
2	5098.86	36.41	7.56	43.97	54.00	10.03	100	151	AV
3	5150.00	34.07	8.03	42.10	54.00	11.90	400	66	AV
4	5150.00	45.84	8.03	53.87	74.00	20.13	400	200	PK
5	5259.26	98.21	9.28	107.49			300	135	PK
6	5260.70	90.15	9.30	99.45			300	135	AV
7	10512.42	33.20	16.51	49.71	68.20	18.49	100	183	PK
8	10517.10	22.91	16.53	39.44	54.00	14.56	100	190	AV
9	15777.95	17.47	20.25	37.72	54.00	16.28	200	203	AV
10	15780.29	29.42	20.24	49.66	74.00	24.34	200	176	PK

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

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

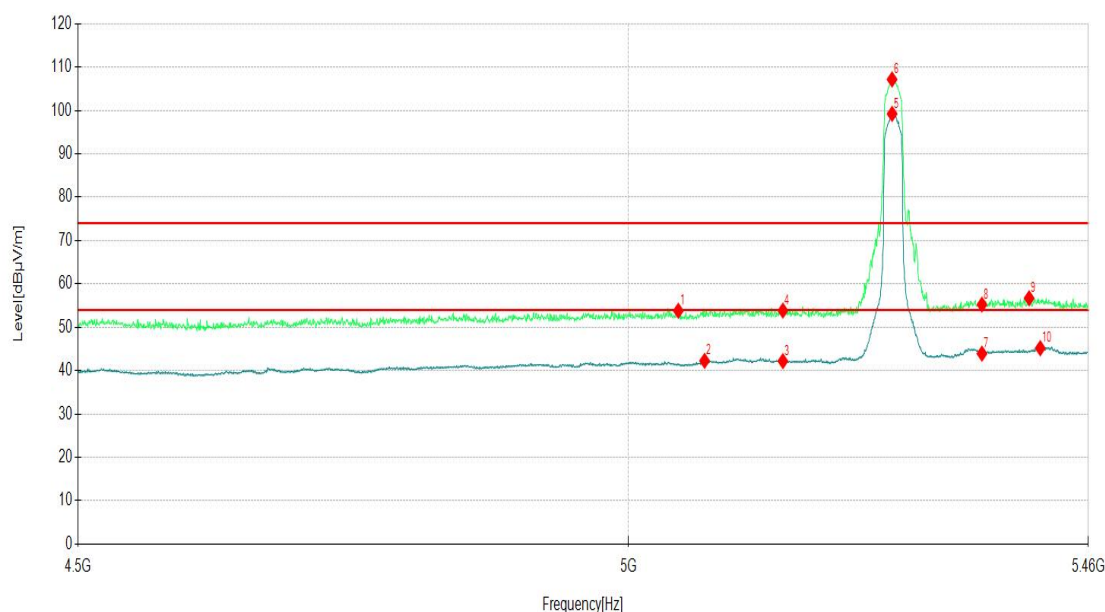
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).

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

Channel	802.11n20 CH52	Frequency	5260 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]	Height [cm]	Angle [°]	Detector
1	5047.95	46.47	7.34	53.81	74.00	20.19	100	223	PK
2	5073.41	34.73	7.54	42.27	54.00	11.73	100	58	AV
3	5150.00	34.17	8.03	42.20	54.00	11.80	100	253	AV
4	5150.00	45.82	8.03	53.85	74.00	20.15	100	28	PK
5	5258.78	89.99	9.22	99.21			400	76	AV
6	5258.78	97.93	9.22	107.15			400	76	PK
7	10517.10	31.90	16.53	48.43	68.20	19.77	200	150	PK
8	10520.61	22.33	16.52	38.85	54.00	15.15	200	146	AV
9	15777.95	16.16	20.25	36.41	54.00	17.59	400	153	AV
10	15781.46	27.18	20.24	47.42	74.00	26.58	400	163	PK



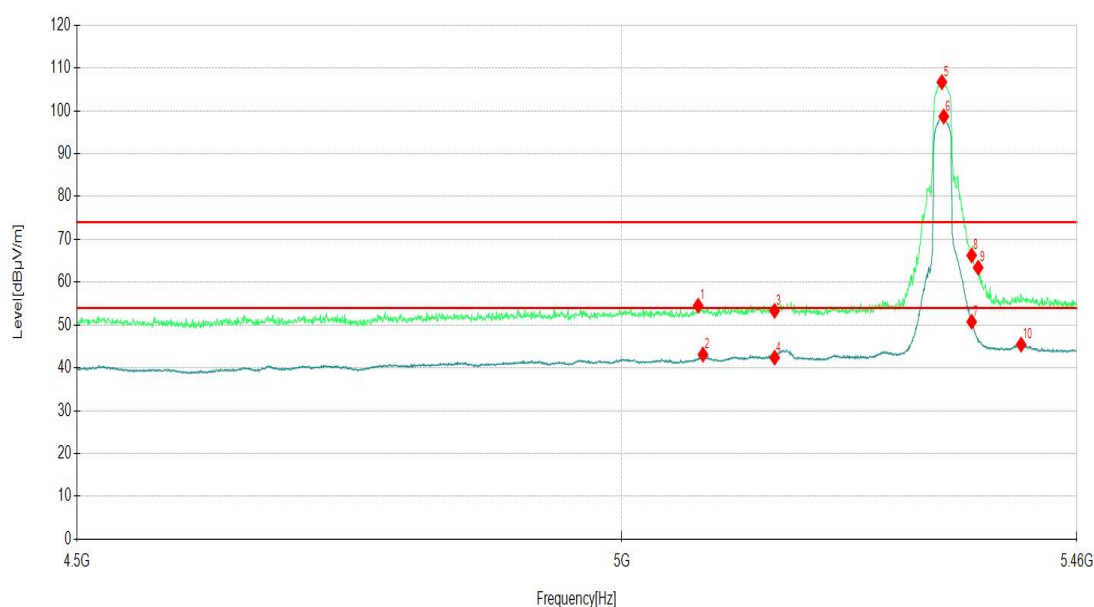
Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
 2. Level (dBμV/m) = Reading (dBμV) + Factor (dB/m).
 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

Channel		802.11n20 CH 56		Frequency		5280MHz			
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]	Height [cm]	Angle [°]	Detector
1	10558.06	23.32	16.33	39.65	54.00	14.35	100	207	AV
2	10560.40	32.91	16.33	49.24	68.20	18.96	100	190	PK
3	15836.45	30.73	20.10	50.83	74.00	23.17	300	197	PK
4	15842.30	18.74	20.12	38.86	54.00	15.14	300	200	AV
Vertical									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	10561.57	22.45	16.29	38.74	54.00	15.26	200	143	AV
2	10563.91	33.34	16.21	49.55	68.20	18.65	200	146	PK
3	15838.79	16.69	20.11	36.80	54.00	17.20	100	153	AV
4	15844.64	28.05	20.12	48.17	74.00	25.83	100	153	PK
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]									

Channel	802.11n20 CH64	Frequency	5320 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]	Height [cm]	Angle [°]	Detector
1	5319.29	97.72	8.99	106.71			300	138	PK
2	5321.21	89.64	9.04	98.68			300	136	AV
3	5350.00	40.81	9.96	50.77	54.00	3.23	100	50	AV
4	5350.00	56.29	9.96	66.25	74.00	7.75	100	140	PK
5	5356.75	53.36	10.03	63.39	74.00	10.61	400	47	PK
6	5401.41	35.38	10.06	45.44	54.00	8.56	400	134	AV
7	10641.13	23.84	15.79	39.63	54.00	14.37	100	214	AV
8	10644.64	34.27	15.78	50.05	74.00	23.95	100	207	PK
9	15956.98	19.02	20.61	39.63	54.00	14.37	300	194	AV
10	15967.51	30.36	20.55	50.91	74.00	23.09	300	190	PK

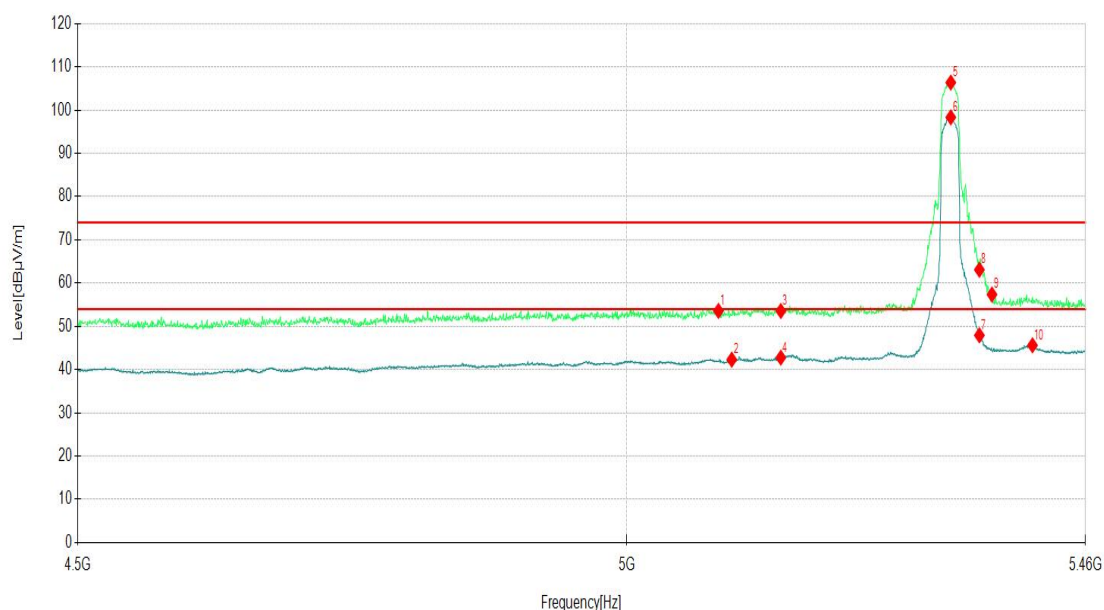


Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
 2. Level (dBμV/m) = Reading (dBμV) + Factor (dB/m).
 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

Channel	802.11n20 CH64	Frequency	5320 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]	Height [cm]	Angle [°]	Detector
1	5320.73	97.35	9.01	106.36			200	152	PK
2	5320.73	89.32	9.01	98.33			200	152	AV
3	5350.00	37.96	9.96	47.92	54.00	6.08	200	79	AV
4	5350.00	53.12	9.96	63.08	74.00	10.92	200	150	PK
5	5362.99	47.34	10.02	57.36	74.00	16.64	400	156	PK
6	5404.77	35.46	10.15	45.61	54.00	8.39	400	75	AV
7	10634.11	35.40	15.83	51.23	74.00	22.77	300	144	PK
8	10641.13	24.51	15.79	40.30	54.00	13.70	300	148	AV
9	15958.15	29.68	20.61	50.29	74.00	23.71	200	161	PK
10	15958.15	16.55	20.61	37.16	54.00	16.84	200	144	AV

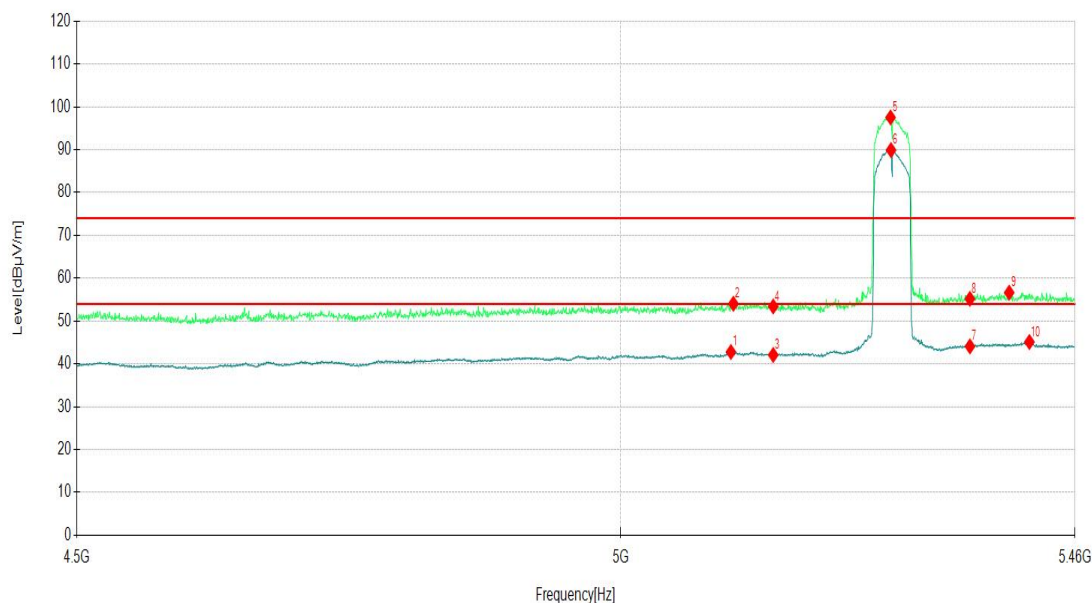


Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
 2. Level (dBμV/m) = Reading (dBμV) + Factor (dB/m).
 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

Channel	802.11n40 CH54	Frequency	5270 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]	Height [cm]	Angle [°]	Detector
1	5107.98	34.80	7.98	42.78	54.00	11.22	300	91	AV
2	5110.39	45.97	8.07	54.04	74.00	19.96	300	286	PK
3	5150.00	34.06	8.03	42.09	54.00	11.91	300	64	AV
4	5150.00	45.37	8.03	53.40	74.00	20.60	300	292	PK
5	5268.38	88.76	8.77	97.53			300	137	PK
6	5268.86	81.16	8.74	89.90			300	135	AV
7	10540.00	26.32	16.50	42.82	68.20	25.38	300	359	PK
8	10540.00	18.36	16.50	34.86	54.00	19.14	300	201	AV
9	15810.00	23.24	20.13	43.37	74.00	30.63	200	191	PK
10	15810.00	13.00	20.13	33.13	54.00	20.87	200	165	AV

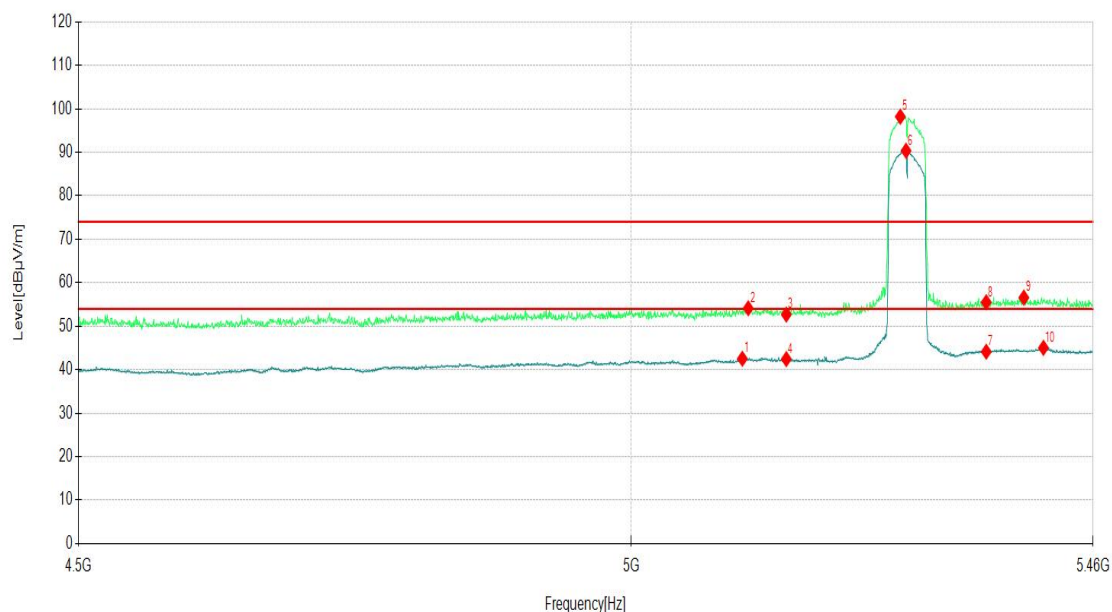


Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
 2. Level (dBμV/m) = Reading (dBμV) + Factor (dB/m).
 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

Channel	802.11n40 CH54	Frequency	5270 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]	Height [cm]	Angle [°]	Detector
1	5107.02	34.60	7.92	42.52	54.00	11.48	400	137	AV
2	5112.79	46.14	7.99	54.13	74.00	19.87	400	175	PK
3	5150.00	44.66	8.03	52.69	74.00	21.31	100	332	PK
4	5150.00	34.41	8.03	42.44	54.00	11.56	100	332	AV
5	5263.10	89.06	9.13	98.19			300	74	PK
6	5268.86	81.62	8.74	90.36			300	74	AV
7	10540.00	26.78	16.50	43.28	68.20	24.92	400	257	PK
8	10540.00	18.10	16.50	34.60	54.00	19.40	400	290	AV
9	15810.00	23.12	20.13	43.25	74.00	30.75	400	9	PK
10	15810.00	13.10	20.13	33.23	54.00	20.77	400	140	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		802.11n40 CH62		Frequency		5310 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]	Height [cm]	Angle [°]	Detector
1	5307.76	88.87	9.13	98.00			200	135	PK
2	5308.24	81.06	9.15	90.21			200	135	AV
3	5350.00	34.38	9.96	44.34	54.00	9.66	400	133	AV
4	5350.00	45.17	9.96	55.13	74.00	18.87	400	14	PK
5	5372.12	47.14	9.97	57.11	74.00	16.89	400	37	PK
6	5381.72	34.67	10.11	44.78	54.00	9.22	400	217	AV
7	10620.00	27.49	15.99	43.48	74.00	30.52	300	137	PK
8	10620.00	17.90	15.99	33.89	54.00	20.11	300	187	AV
9	15930.00	22.50	20.57	43.07	74.00	30.93	200	187	PK
10	15930.00	12.93	20.57	33.50	54.00	20.50	200	187	AV

Level [dBμV/m]

Frequency [Hz]

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

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

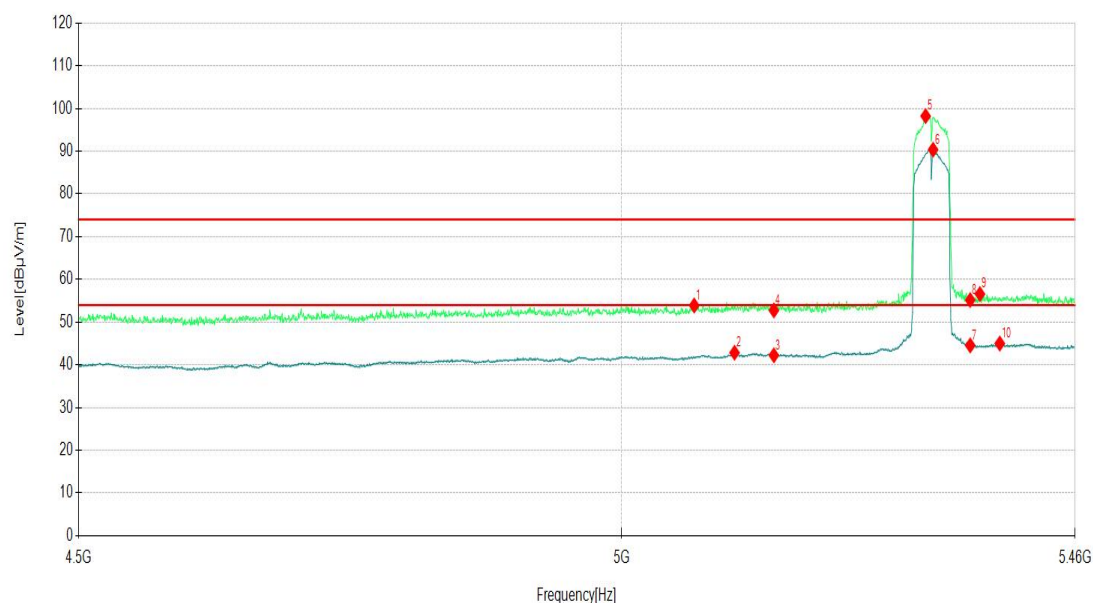
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).

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

Channel	802.11n40 CH62	Frequency	5310 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]	Height [cm]	Angle [°]	Detector
1	5303.92	89.23	8.98	98.21			300	76	PK
2	5311.61	81.19	9.17	90.36			300	78	AV
3	5350.00	34.58	9.96	44.54	54.00	9.46	400	49	AV
4	5350.00	45.20	9.96	55.16	74.00	18.84	400	145	PK
5	5360.11	46.52	10.05	56.57	74.00	17.43	400	90	PK
6	5380.76	34.86	10.12	44.98	54.00	9.02	400	158	AV
7	10620.00	27.69	15.99	43.68	74.00	30.32	400	177	PK
8	10620.00	18.53	15.99	34.52	54.00	19.48	400	141	AV
9	15930.00	21.82	20.57	42.39	74.00	31.61	400	254	PK
10	15930.00	12.75	20.57	33.32	54.00	20.68	400	254	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]

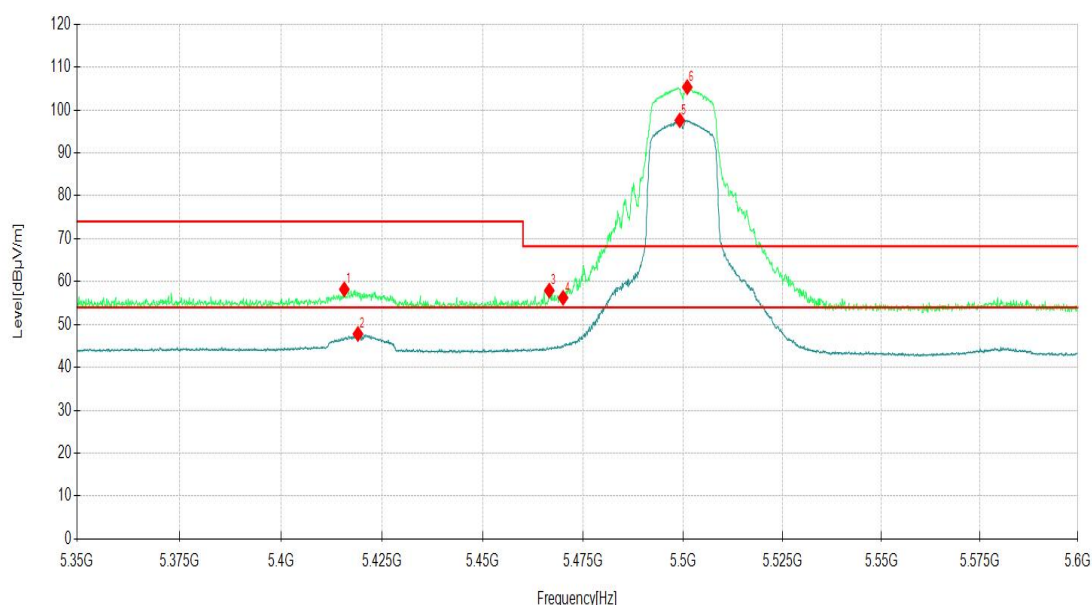
3.1.8 TEST RESULTS - Band 3 (5500-5720MHz):

ABOVE 1GHz DATA

Channel	802.11a CH100	Frequency	5500 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]	Height [cm]	Angle [°]	Detector
1	5415.66	48.22	9.99	58.21	74.00	15.79	300	43	PK
2	5419.03	37.98	9.82	47.80	54.00	6.20	300	144	AV
3	5466.56	47.95	9.96	57.91	68.20	10.29	200	102	PK
4	5470.00	46.28	9.95	56.23	68.20	11.97	200	139	PK
5	5499.20	88.41	9.18	97.59			300	93	AV
6	5501.08	96.06	9.27	105.33			300	97	PK
7	11000.00	27.94	14.83	42.77	74.00	31.23	300	0	PK
8	11000.00	18.37	14.83	33.20	54.00	20.80	300	209	AV
9	16499.91	28.16	23.16	51.32	68.20	16.88	300	138	PK
10	16500.00	16.71	23.16	39.87	54.00	14.13	300	148	AV

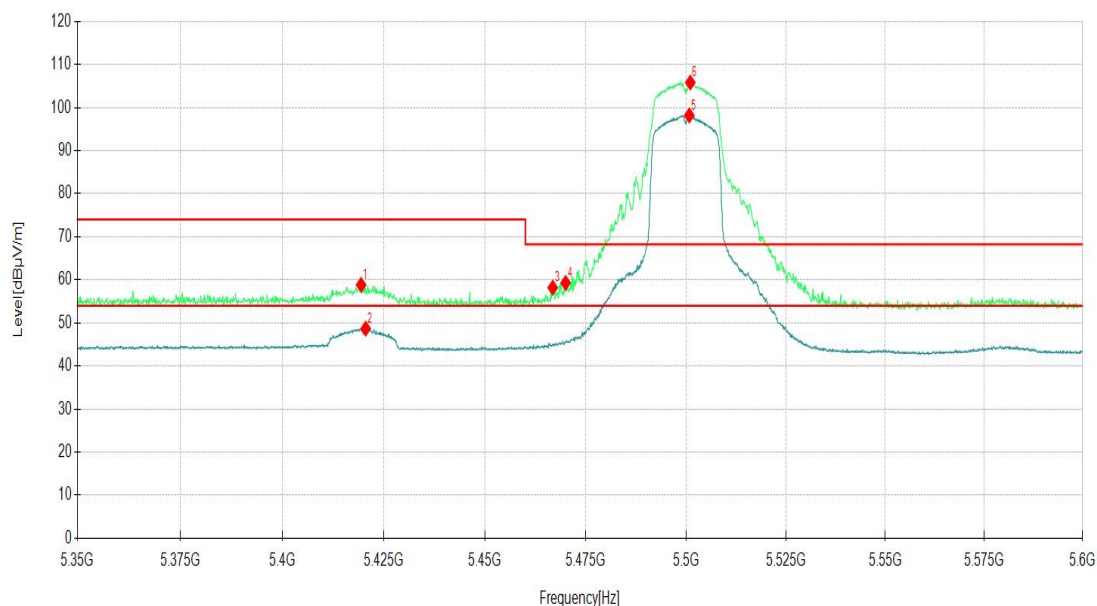


Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
 2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 4. Margin(dB) = Limit[dBuV/m] - Level [dBuV/m]

Channel	802.11a CH100	Frequency	5500 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]	Height [cm]	Angle [°]	Detector
1	5080.61	34.54	7.81	42.35	54.00	11.65	400	42	AV
2	5086.37	45.95	7.68	53.63	74.00	20.37	400	7	PK
3	5150.00	34.25	8.03	42.28	54.00	11.72	400	160	AV
4	5150.00	45.04	8.03	53.07	74.00	20.93	400	9	PK
5	5259.26	90.31	9.28	99.59			300	76	AV
6	5261.18	98.17	9.27	107.44			300	76	PK
7	10994.51	29.49	14.81	44.30	74.00	29.70	200	110	PK
8	10998.02	19.92	14.82	34.74	54.00	19.26	200	345	AV
9	16499.91	18.94	23.16	42.10	54.00	11.90	300	143	AV
10	16502.25	30.69	23.18	53.87	68.20	14.33	300	143	PK



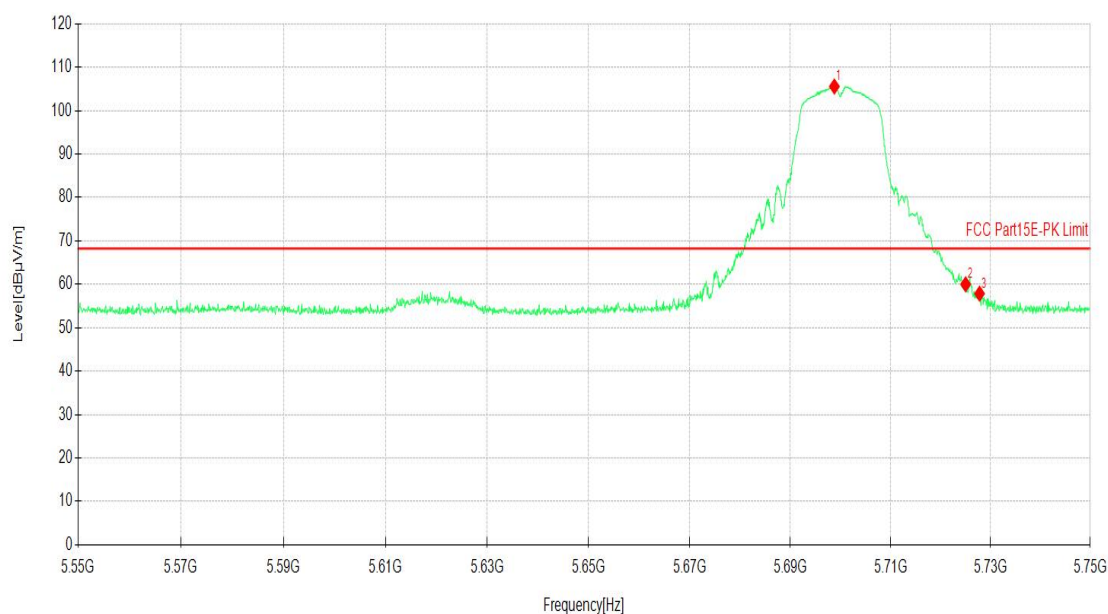
Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
 2. Level (dBμV/m) = Reading (dBμV) + Factor (dB/m).
 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

Channel		802.11a CH 120		Frequency		5600MHz			
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]	Height [cm]	Angle [°]	Detector
1	11198.11	30.24	15.11	45.35	74.00	28.65	200	186	PK
2	11201.62	21.18	15.09	36.27	54.00	17.73	200	121	AV
3	16791.27	27.16	24.82	51.98	68.20	16.22	200	151	PK
4	16802.97	16.53	24.84	41.37	54.00	12.63	200	141	AV
Vertical									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	11202.79	23.52	15.07	38.59	54.00	15.41	200	110	AV
2	11203.96	32.86	15.05	47.91	74.00	26.09	200	110	PK
3	16790.10	26.97	24.81	51.78	68.20	16.42	400	172	PK
4	16798.29	17.57	24.83	42.40	54.00	11.60	400	176	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]									

Channel	802.11a CH140	Frequency	5700 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]	Height [cm]	Angle [°]	Detector
1	5698.77	96.70	8.86	105.56			200	151	PK
2	5725.00	51.12	8.89	60.01	68.20	8.19	200	155	PK
3	5727.79	49.08	8.78	57.86	68.20	10.34	400	151	PK
4	11392.35	33.45	15.09	48.54	74.00	25.46	400	160	PK
5	11401.71	24.42	15.11	39.53	54.00	14.47	300	165	AV
6	17093.16	28.01	26.05	54.06	68.20	14.14	300	145	PK
7	17099.01	18.00	25.95	43.95	54.00	10.05	100	140	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 CH140		Frequency		5700 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]	Height [cm]	Angle [°]	Detector
1	5701.08	95.82	8.92	104.74			300	140	PK
2	5725.00	49.85	8.89	58.74	68.20	9.46	300	140	PK
3	5728.89	49.19	8.73	57.92	68.20	10.28	400	136	PK
4	11397.03	34.15	15.09	49.24	74.00	24.76	400	360	PK
5	11401.71	25.52	15.11	40.63	54.00	13.37	100	91	AV
6	17102.52	20.12	25.93	46.05	54.00	7.95	100	195	AV
7	17106.03	30.70	25.94	56.64	68.20	11.56	200	195	PK

Level[dBμV/m]

Frequency[Hz]

FCC Part15E-PK Limit

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]

Channel		802.11a CH 144		Frequency		5720MHz			
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]	Height [cm]	Angle [°]	Detector
1	11436.81	34.75	15.08	49.83	74.00	24.17	100	131	PK
2	11436.81	25.63	15.08	40.71	54.00	13.29	100	131	AV
3	17151.67	27.78	25.99	53.77	68.20	14.43	300	150	PK
4	17158.69	19.98	25.88	45.86	54.00	8.14	300	150	AV
Vertical									
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	11441.49	25.28	15.03	40.31	54.00	13.69	100	86	AV
2	11442.66	34.88	15.04	49.92	74.00	24.08	100	81	PK
3	17154.01	21.07	25.95	47.02	54.00	6.98	300	190	AV
4	17159.86	29.29	25.87	55.16	68.20	13.04	300	141	PK
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]									

Channel		802.11n20 CH100		Frequency		5500 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]	Height [cm]	Angle [°]	Detector
1	5418.78	37.64	9.83	47.47	54.00	6.53	200	139	AV
2	5421.16	48.30	9.77	58.07	74.00	15.93	200	88	PK
3	5467.31	48.80	9.96	58.76	68.20	9.44	300	100	PK
4	5470.00	47.94	9.95	57.89	68.20	10.31	300	274	PK
5	5501.20	96.52	9.28	105.80			300	96	PK
6	5501.33	88.67	9.27	97.94			300	96	AV
7	10998.02	31.03	14.82	45.85	74.00	28.15	200	214	PK
8	11000.36	20.88	14.83	35.71	54.00	18.29	200	184	AV
9	16497.57	30.53	23.20	53.73	68.20	14.47	400	204	PK
10	16504.59	18.41	23.20	41.61	54.00	12.39	400	140	AV

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

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

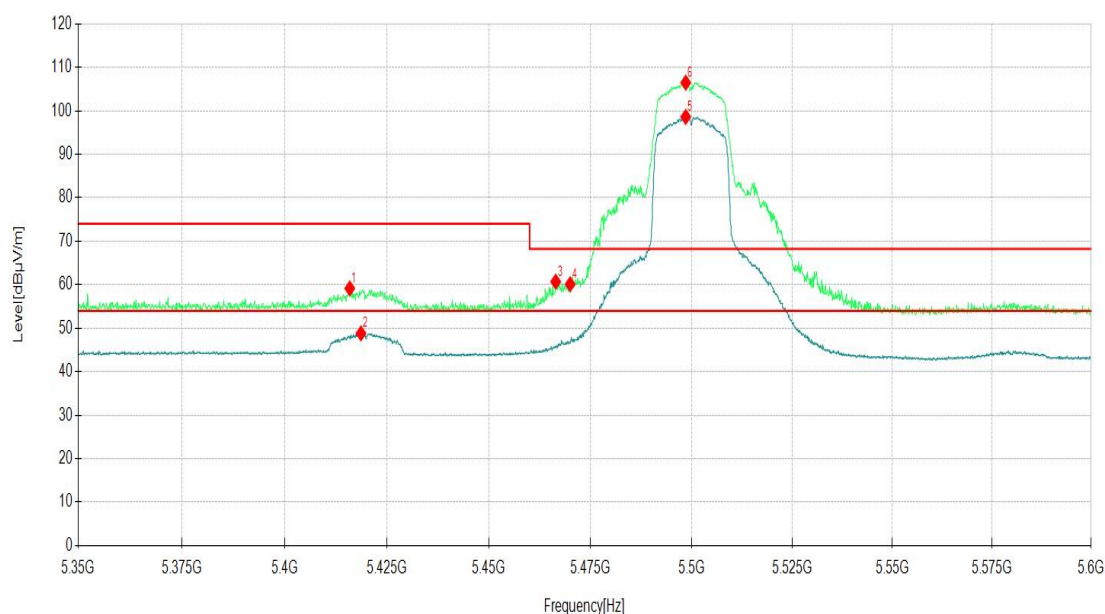
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).

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

Channel	802.11n20 CH100	Frequency	5500 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]	Height [cm]	Angle [°]	Detector
1	5415.91	49.18	9.98	59.16	74.00	14.84	200	150	PK
2	5418.66	38.99	9.83	48.82	54.00	5.18	200	88	AV
3	5466.43	50.74	9.97	60.71	68.20	7.49	200	88	PK
4	5470.00	50.16	9.95	60.11	68.20	8.09	200	80	PK
5	5498.57	89.44	9.16	98.60			300	51	AV
6	5498.57	97.30	9.16	106.46			300	51	PK
7	10999.19	20.68	14.83	35.51	54.00	18.49	400	102	AV
8	11002.70	31.26	14.84	46.10	74.00	27.90	400	110	PK
9	16499.91	31.76	23.16	54.92	68.20	13.28	200	143	PK
10	16501.08	19.65	23.16	42.81	54.00	11.19	200	156	AV



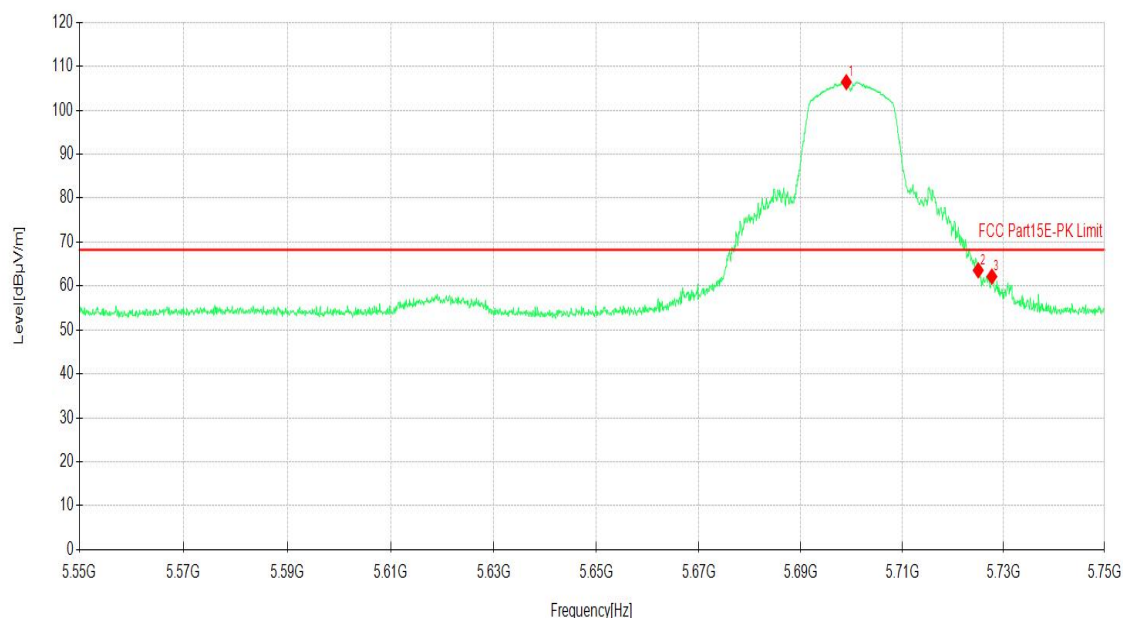
Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
 2. Level (dBμV/m) = Reading (dBμV) + Factor (dB/m).
 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

Channel		802.11n20 CH 120			Frequency		5600MHz		
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]	Height [cm]	Angle [°]	Detector
1	11199.28	32.74	15.11	47.85	74.00	26.15	300	119	PK
2	11199.28	21.76	15.11	36.87	54.00	17.13	300	119	AV
3	16799.46	28.30	24.82	53.12	68.20	15.08	100	139	PK
4	16805.31	17.32	24.87	42.19	54.00	11.81	100	149	AV
Vertical									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	11196.94	25.23	15.11	40.34	54.00	13.66	300	97	AV
2	11203.96	34.40	15.05	49.45	74.00	24.55	300	109	PK
3	16802.97	30.27	24.84	55.11	68.20	13.09	200	179	PK
4	16804.14	19.19	24.85	44.04	54.00	9.96	200	179	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]									

Channel	802.11n20 CH140	Frequency	5700 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]	Height [cm]	Angle [°]	Detector
1	5698.97	97.51	8.88	106.39			200	150	PK
2	5725.00	54.68	8.89	63.57	68.20	4.63	200	150	PK
3	5727.69	53.37	8.78	62.15	68.20	6.05	400	150	PK
4	11397.03	26.13	15.09	41.22	54.00	12.78	400	131	AV
5	11402.88	36.16	15.11	51.27	74.00	22.73	400	126	PK
6	17096.67	30.79	25.99	56.78	68.20	11.42	400	150	PK
7	17101.35	21.36	25.94	47.30	54.00	6.70	100	146	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		802.11n20 CH140		Frequency		5700 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]	Height [cm]	Angle [°]	Detector
1	5700.88	96.63	8.93	105.56			100	142	PK
2	5725.00	55.52	8.89	64.41	68.20	3.79	100	138	PK
3	5727.19	54.59	8.79	63.38	68.20	4.82	200	146	PK
4	11400.54	25.40	15.10	40.50	54.00	13.50	200	89	AV
5	11402.88	35.83	15.11	50.94	74.00	23.06	100	89	PK
6	17095.50	32.08	26.00	58.08	68.20	10.12	100	188	PK
7	17101.35	22.19	25.94	48.13	54.00	5.87	300	192	AV

Level[dBμV/m]

Frequency[Hz]

FCC Part15E-PK Limit

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).

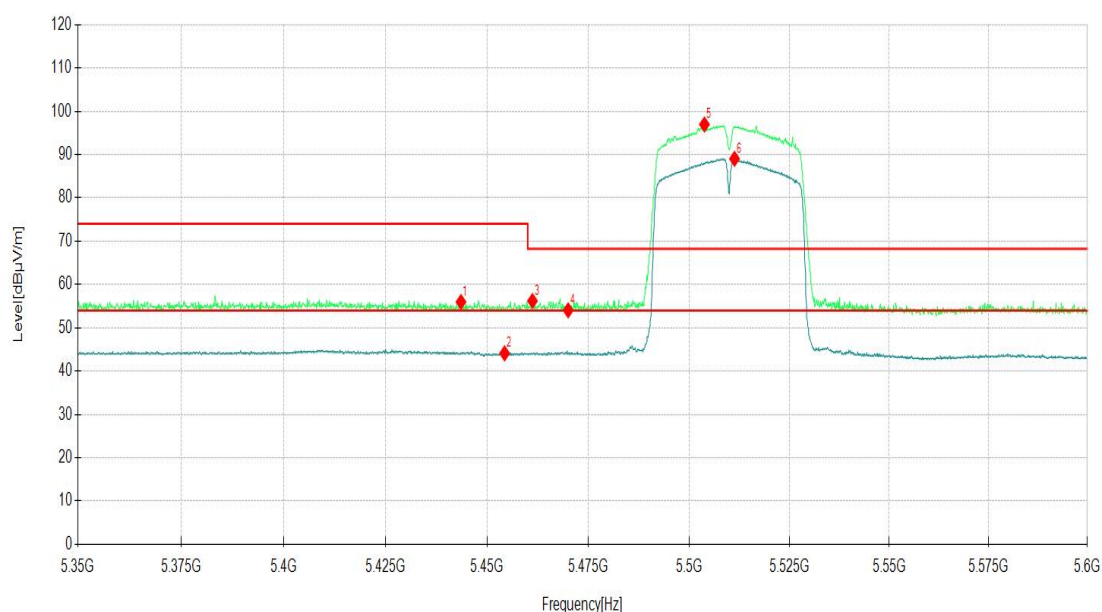
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

Channel		802.11n CH 144		Frequency		5720MHz			
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]	Height [cm]	Angle [°]	Detector
1	11436.81	34.51	15.08	49.59	74.00	24.41	200	135	PK
2	11441.49	25.68	15.03	40.71	54.00	13.29	200	140	AV
3	17159.86	29.47	25.87	55.34	68.20	12.86	100	155	PK
4	17161.03	23.05	25.86	48.91	54.00	5.09	100	145	AV
Vertical									
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	11437.98	33.94	15.06	49.00	74.00	25.00	300	349	PK
2	11440.32	24.67	15.04	39.71	54.00	14.29	300	1	AV
3	17158.69	31.52	25.88	57.40	68.20	10.80	200	185	PK
4	17158.69	22.61	25.88	48.49	54.00	5.51	200	175	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	802.11n40 CH62	Frequency	5310 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]	Height [cm]	Angle [°]	Detector
1	5443.55	46.26	9.72	55.98	74.00	18.02	300	160	PK
2	5454.30	34.28	9.83	44.11	54.00	9.89	300	26	AV
3	5461.18	46.22	9.98	56.20	68.20	12.00	200	193	PK
4	5470.00	44.09	9.95	54.04	68.20	14.16	200	189	PK
5	5503.83	87.54	9.41	96.95			100	97	PK
6	5511.33	79.30	9.72	89.02			100	97	AV
7	11020.00	26.10	14.89	40.99	74.00	33.01	400	326	PK
8	11020.00	17.74	14.89	32.63	54.00	21.37	400	326	AV
9	16530.00	21.50	23.21	44.71	68.20	23.49	100	56	PK
10	16530.00	11.83	23.21	35.04	54.00	18.96	100	121	AV

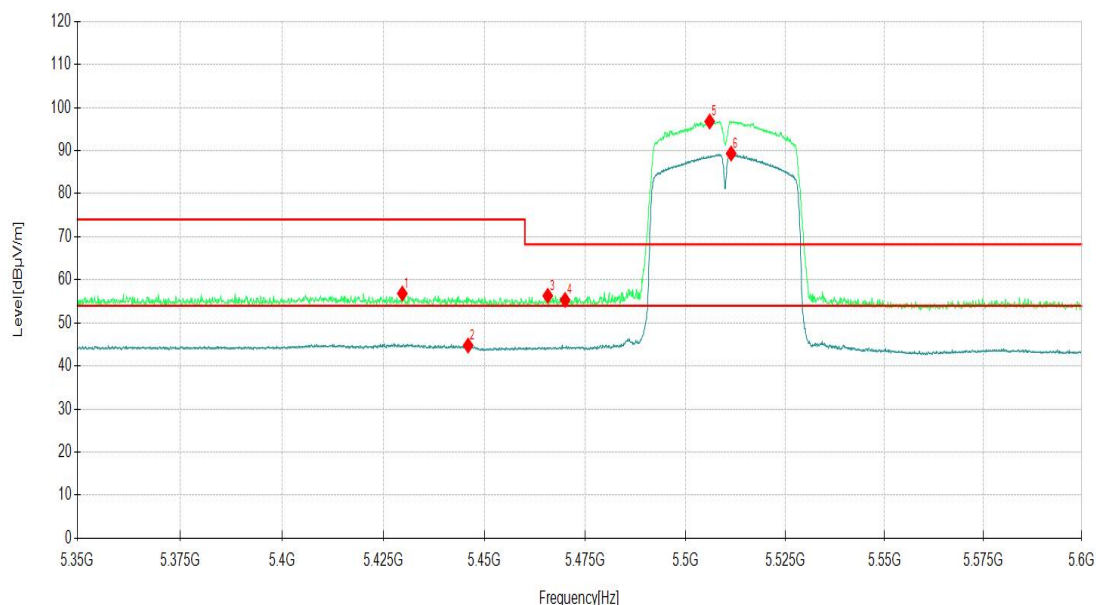


Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
 2. Level (dBμV/m) = Reading (dBμV) + Factor (dB/m).
 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

Channel	802.11n40 CH102	Frequency	5510 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]	Height [cm]	Angle [°]	Detector
1	5429.66	46.96	9.85	56.81	74.00	17.19	200	43	PK
2	5445.92	35.04	9.72	44.76	54.00	9.24	200	48	AV
3	5465.68	46.33	9.97	56.30	68.20	11.90	100	127	PK
4	5470.00	45.38	9.95	55.33	68.20	12.87	100	243	PK
5	5506.08	87.21	9.54	96.75			300	48	PK
6	5511.46	79.60	9.72	89.32			300	144	AV
7	11020.00	26.10	14.89	40.99	74.00	33.01	200	326	PK
8	11020.00	17.74	14.89	32.63	54.00	21.37	200	326	AV
9	16530.00	21.50	23.21	44.71	68.20	23.49	400	56	PK
10	16530.00	11.83	23.21	35.04	54.00	18.96	400	121	AV

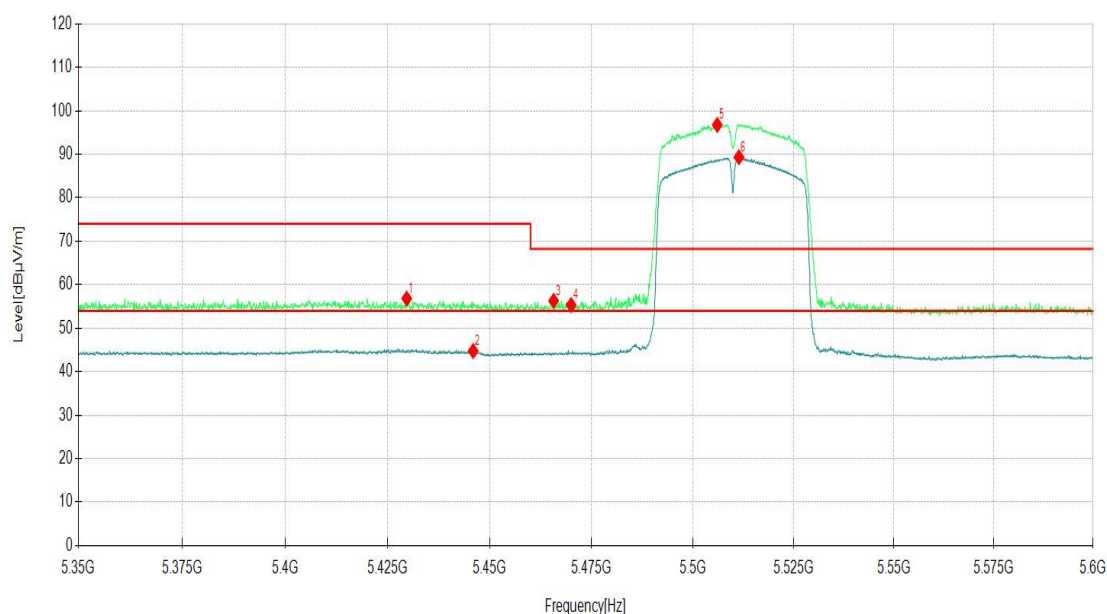


Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
 2. Level (dBμV/m) = Reading (dBμV) + Factor (dB/m).
 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

Channel	802.11n40 CH102	Frequency	5510 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]	Height [cm]	Angle [°]	Detector
1	5107.02	34.60	7.92	42.52	54.00	11.48	400	137	AV
2	5112.79	46.14	7.99	54.13	74.00	19.87	400	175	PK
3	5150.00	44.66	8.03	52.69	74.00	21.31	300	332	PK
4	5150.00	34.41	8.03	42.44	54.00	11.56	300	332	AV
5	5263.10	89.06	9.13	98.19			100	74	PK
6	5268.86	81.62	8.74	90.36			100	74	AV
7	10540.00	26.78	16.50	43.28	68.20	24.92	100	257	PK
8	10540.00	18.10	16.50	34.60	54.00	19.40	100	290	AV
9	15810.00	23.12	20.13	43.25	74.00	30.75	200	9	PK
10	15810.00	13.10	20.13	33.23	54.00	20.77	200	140	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 118		Frequency		5590MHz			
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]	Height [cm]	Angle [°]	Detector
1	11020.00	26.10	14.89	40.99	74.00	33.01	100	326	PK
2	11020.00	17.74	14.89	32.63	54.00	21.37	100	326	AV
3	16530.00	21.50	23.21	44.71	68.20	23.49	100	56	PK
4	16530.00	11.83	23.21	35.04	54.00	18.96	100	121	AV
Vertical									
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	11020.00	25.55	14.89	40.44	74.00	33.56	200	279	PK
2	11020.00	17.41	14.89	32.30	54.00	21.70	200	105	AV
3	16530.00	21.51	23.21	44.72	68.20	23.48	400	180	PK
4	16530.00	12.37	23.21	35.58	54.00	18.42	400	184	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]									

Channel		802.11n40 CH134		Frequency		5670 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]	Height [cm]	Angle [°]	Detector
1	5662.36	88.99	9.25	98.24			400	146	PK
2	5725.00	45.67	8.89	54.56	68.20	13.64	400	318	PK
3	5734.29	46.96	8.79	55.75	68.20	12.45	400	193	PK
4	11340.00	26.70	14.88	41.58	74.00	32.42	400	131	PK
5	11340.00	17.00	14.88	31.88	54.00	22.12	300	71	AV
6	17010.00	19.91	26.15	46.06	68.20	22.14	300	355	PK
7	17010.00	11.42	26.15	37.57	54.00	16.43	400	245	AV

Level[dBμV/m]

Frequency[Hz]

FCC Part15E-PK Limit

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]

Channel		802.11n40 CH134		Frequency		5670 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]	Height [cm]	Angle [°]	Detector
1	5662.56	88.59	9.26	97.85			200	5	PK
2	5725.00	45.15	8.89	54.04	68.20	14.16	200	158	PK
3	5733.49	46.66	8.77	55.43	68.20	12.77	400	240	PK
4	11340.00	27.32	14.88	42.20	74.00	31.80	400	3	PK
5	11340.00	17.65	14.88	32.53	54.00	21.47	200	105	AV
6	17010.00	20.68	26.15	46.83	68.20	21.37	200	64	PK
7	17010.00	11.42	26.15	37.57	54.00	16.43	200	31	AV

Level[dBμV/m]

Frequency[Hz]

FCC Part15E-PK Limit

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 142		Frequency		5710MHz			
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]	Height [cm]	Angle [°]	Detector
1	11420.00	27.79	15.12	42.91	74.00	31.09	100	185	PK
2	11420.00	20.68	15.12	35.80	54.00	18.20	100	215	AV
3	17130.00	21.08	26.05	47.13	68.20	21.07	400	96	PK
4	17130.00	12.54	26.05	38.59	54.00	15.41	400	195	AV
Vertical									
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	11400.54	28.83	15.10	43.93	74.00	30.07	100	347	PK
2	11420.43	21.13	15.12	36.25	54.00	17.75	100	360	AV
3	17124.75	15.99	26.00	41.99	54.00	12.01	100	189	AV
4	17134.11	24.05	26.10	50.15	68.20	18.05	100	204	PK
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]									

3.1.9 TEST RESULTS - Band 4 (5745-5825MHz):

ABOVE 1GHz DATA

Channel		802.11a 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]	Height [cm]	Angle [°]	Detector
1	5631.14	47.44	8.98	56.42	68.20	11.78	200	346	PK
2	5746.14	96.31	8.93	105.24			200	157	PK
3	5933.35	47.43	10.61	58.04	68.20	10.16	400	86	PK
4	11487.13	34.21	15.03	49.24	74.00	24.76	400	135	PK
5	11491.81	25.29	15.04	40.33	54.00	13.67	300	165	AV
6	17235.91	21.67	25.54	47.21	54.00	6.79	300	155	AV
7	17237.08	31.74	25.54	57.28	68.20	10.92	100	145	PK

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 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]	Height [cm]	Angle [°]	Detector
1	5626.08	46.93	9.02	55.95	68.20	12.25	400	1	PK
2	5746.14	95.92	8.93	104.85			400	146	PK
3	5939.54	47.35	10.80	58.15	68.20	10.05	300	225	PK
4	11487.13	33.21	15.03	48.24	74.00	25.76	300	4	PK
5	11490.64	24.73	15.04	39.77	54.00	14.23	300	357	AV
6	17232.40	22.34	25.53	47.87	54.00	6.13	300	194	AV
7	17234.74	31.44	25.53	56.97	68.20	11.23	400	183	PK

The spectrum plot shows the emission level in dBμV/m across a frequency range from 5.6G to 5.975G Hz. A green trace represents the measured signal, and a red line represents the limit. A sharp peak is visible at 5746.14 MHz, reaching a level of 104.85 dBμV/m. Three specific points are marked with red diamonds and numbered: 1 at 5626.08 MHz, 2 at 5746.14 MHz, and 3 at 5939.54 MHz.

Point	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]
1	5626.08	46.93	9.02	55.95	68.20	12.25
2	5746.14	95.92	8.93	104.85	-	-
3	5939.54	47.35	10.80	58.15	68.20	10.05

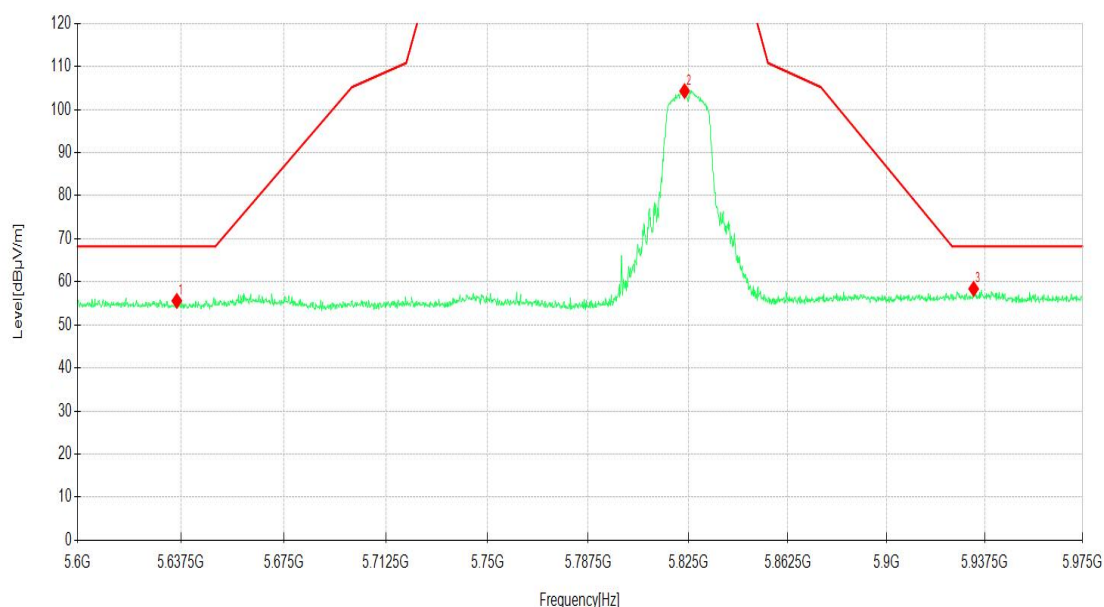
Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBuV/m] - Level [dBuV/m]

Channel		802.11a CH 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]	Height [cm]	Angle [°]	Detector
1	11571.38	26.21	15.34	41.55	54.00	12.45	200	234	AV
2	11572.55	32.68	15.34	48.02	74.00	25.98	200	220	PK
3	17351.76	18.64	26.37	45.01	54.00	8.99	200	140	AV
4	17357.61	26.41	26.25	52.66	68.20	15.54	200	175	PK
Vertical									
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	11566.70	31.41	15.36	46.77	74.00	27.23	400	360	PK
2	11570.21	24.60	15.34	39.94	54.00	14.06	400	1	AV
3	17355.27	29.35	26.31	55.66	68.20	12.54	100	204	PK
4	17358.78	19.84	26.23	46.07	54.00	7.93	100	170	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 CH165	Frequency	5825 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]	Height [cm]	Angle [°]	Detector
1	5636.02	46.91	8.68	55.59	68.20	12.61	400	359	PK
2	5823.61	95.47	8.82	104.29			400	158	PK
3	5933.17	47.78	10.61	58.39	68.20	9.81	400	358	PK
4	11646.26	31.57	15.18	46.75	74.00	27.25	400	190	PK
5	11649.78	23.59	15.20	38.79	54.00	15.21	100	100	AV
6	17476.96	29.11	26.05	55.16	68.20	13.04	100	140	PK
7	17476.96	18.67	26.05	44.72	54.00	9.28	100	140	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 CH165		Frequency		5825 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]	Height [cm]	Angle [°]	Detector
1	5625.89	46.80	9.03	55.83	68.20	12.37	200	161	PK
2	5823.80	94.93	8.82	103.75			200	145	PK
3	5942.17	47.32	10.57	57.89	68.20	10.31	100	157	PK
4	11655.63	23.64	15.24	38.88	54.00	15.12	100	100	AV
5	11660.31	31.13	15.27	46.40	74.00	27.60	400	140	PK
6	17472.28	27.12	26.03	53.15	68.20	15.05	400	199	PK
7	17474.62	19.17	26.04	45.21	54.00	8.79	300	140	AV

Level[dBμV/m]

Frequency[Hz]

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

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

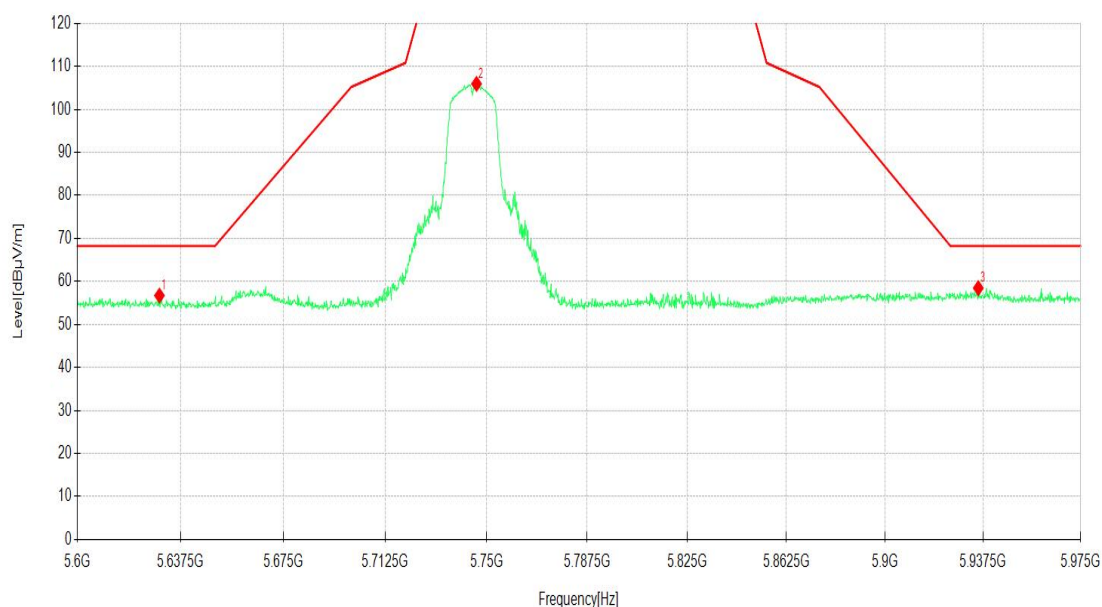
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).

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

Channel	802.11n20 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]	Height [cm]	Angle [°]	Detector
1	5629.83	47.68	9.05	56.73	68.20	11.47	200	2	PK
2	5746.32	97.00	8.93	105.93			200	157	PK
3	5935.61	47.79	10.67	58.46	68.20	9.74	100	78	PK
4	11490.64	34.35	15.04	49.39	74.00	24.61	100	166	PK
5	11490.64	25.97	15.04	41.01	54.00	12.99	200	166	AV
6	17231.23	31.99	25.53	57.52	68.20	10.68	200	166	PK
7	17240.59	21.48	25.54	47.02	54.00	6.98	200	146	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		802.11n20 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]	Height [cm]	Angle [°]	Detector
1	5633.77	47.33	8.82	56.15	68.20	12.05	300	212	PK
2	5745.95	96.75	8.93	105.68			300	145	PK
3	5937.11	47.32	10.72	58.04	68.20	10.16	300	192	PK
4	11488.30	34.70	15.04	49.74	74.00	24.26	300	356	PK
5	11488.30	26.44	15.04	41.48	54.00	12.52	300	90	AV
6	17237.08	32.44	25.54	57.98	68.20	10.22	300	175	PK
7	17238.25	22.74	25.54	48.28	54.00	5.72	400	189	AV

Level[dBμV/m]

Frequency[Hz]

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).

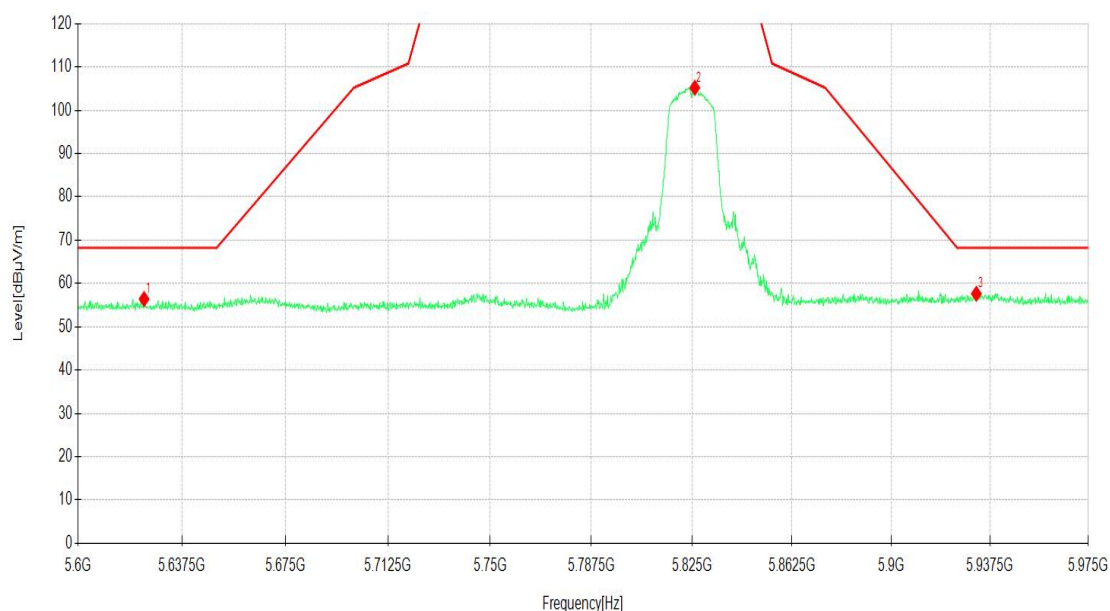
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

Channel		802.11n20 CH 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]	Height [cm]	Angle [°]	Detector
1	11567.87	34.34	15.36	49.70	74.00	24.30	300	230	PK
2	11569.04	25.37	15.34	40.71	54.00	13.29	300	96	AV
3	17351.76	29.29	26.37	55.66	68.20	12.54	200	146	PK
4	17352.93	20.07	26.34	46.41	54.00	7.59	200	146	AV
Vertical									
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	11571.38	33.47	15.34	48.81	74.00	25.19	300	150	PK
2	11571.38	24.19	15.34	39.53	54.00	14.47	300	150	AV
3	17362.29	32.88	26.30	59.18	68.20	9.02	100	190	PK
4	17362.29	22.22	26.30	48.52	54.00	5.48	100	190	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	802.11n20 CH165	Frequency	5825 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]	Height [cm]	Angle [°]	Detector
1	5623.82	47.41	9.01	56.42	68.20	11.78	100	185	PK
2	5826.05	96.41	8.78	105.19			100	157	PK
3	5932.23	47.07	10.56	57.63	68.20	10.57	400	55	PK
4	11646.26	23.74	15.18	38.92	54.00	15.08	400	229	AV
5	11649.78	32.18	15.20	47.38	74.00	26.62	400	229	PK
6	17475.79	28.54	26.05	54.59	68.20	13.61	400	145	PK
7	17475.79	19.59	26.05	45.64	54.00	8.36	200	145	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		802.11n20 CH165		Frequency		5825 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]	Height [cm]	Angle [°]	Detector
1	5629.26	47.52	9.04	56.56	68.20	11.64	200	271	PK
2	5826.24	95.76	8.77	104.53			200	145	PK
3	5942.36	47.14	10.54	57.68	68.20	10.52	400	333	PK
4	11646.26	31.41	15.18	46.59	74.00	27.41	400	82	PK
5	11655.63	24.11	15.24	39.35	54.00	14.65	400	97	AV
6	17474.62	28.96	26.04	55.00	68.20	13.20	400	186	PK
7	17478.13	19.72	26.05	45.77	54.00	8.23	400	171	AV

Level[dBμV/m]

Frequency[Hz]

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]

Channel		802.11n40 CH151		Frequency		5755 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]	Height [cm]	Angle [°]	Detector
1	5612.57	47.68	9.02	56.70	68.20	11.50	300	354	PK
2	5753.64	91.61	9.09	100.70			300	150	PK
3	5941.23	47.25	10.68	57.93	68.20	10.27	300	252	PK
4	11503.51	21.71	15.06	36.77	54.00	17.23	300	234	AV
5	11508.19	29.12	15.10	44.22	74.00	29.78	400	219	PK
6	17267.51	15.70	25.62	41.32	54.00	12.68	400	145	AV
7	17272.19	23.85	25.68	49.53	68.20	18.67	100	155	PK

Level[dBμV/m]

Frequency[Hz]

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]

Channel		802.11n40 CH151		Frequency		5755 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]	Height [cm]	Angle [°]	Detector
1	5612.57	47.18	9.02	56.20	68.20	12.00	300	98	PK
2	5753.26	91.13	9.08	100.21			300	145	PK
3	5935.04	47.26	10.66	57.92	68.20	10.28	400	356	PK
4	11515.21	29.16	15.17	44.33	74.00	29.67	400	354	PK
5	11517.55	21.85	15.18	37.03	54.00	16.97	400	360	AV
6	17255.81	23.89	25.60	49.49	68.20	18.71	400	174	PK
7	17266.34	17.02	25.62	42.64	54.00	11.36	400	194	AV

Level[dBμV/m]

Frequency[Hz]

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

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

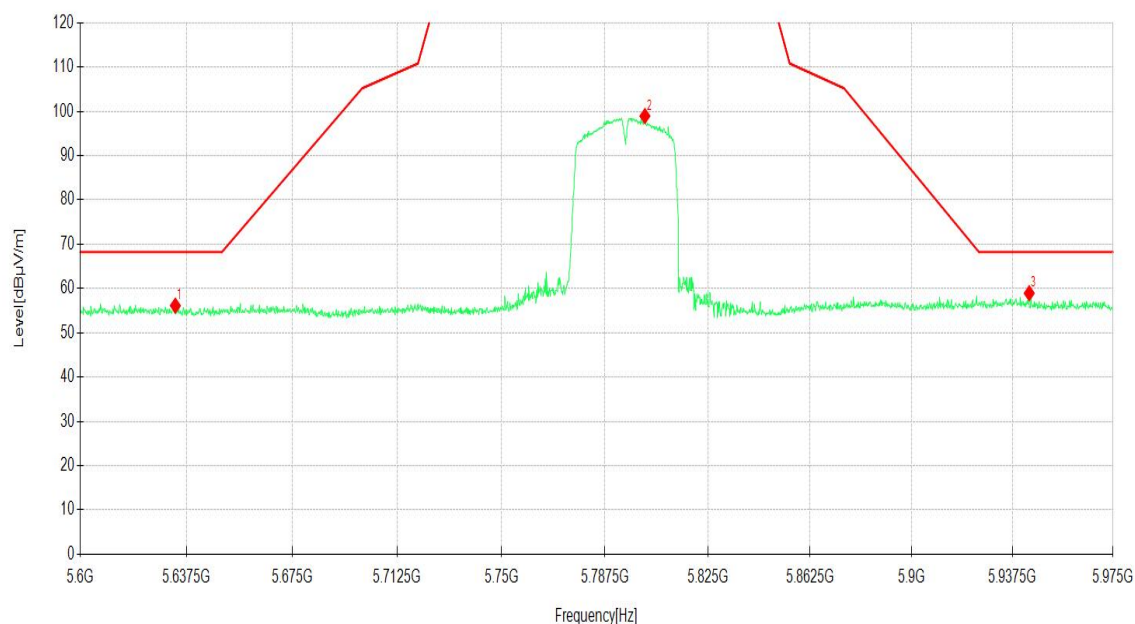
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).

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

Channel	802.11n40 CH159	Frequency	5795 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]	Height [cm]	Angle [°]	Detector
1	5633.58	47.30	8.83	56.13	68.20	12.07	300	176	PK
2	5802.04	90.20	8.73	98.93			300	149	PK
3	5943.67	48.52	10.41	58.93	68.20	9.27	100	172	PK
4	11590.00	27.02	15.17	42.19	74.00	31.81	100	239	PK
5	11590.00	20.61	15.17	35.78	54.00	18.22	400	224	AV
6	17385.00	20.70	26.15	46.85	68.20	21.35	400	47	PK
7	17385.00	13.41	26.15	39.56	54.00	14.44	100	146	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		802.11n40 CH159		Frequency		5795 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]	Height [cm]	Angle [°]	Detector
1	5627.76	47.59	9.04	56.63	68.20	11.57	300	310	PK
2	5792.85	90.23	8.61	98.84			300	145	PK
3	5945.74	47.65	10.18	57.83	68.20	10.37	100	157	PK
4	11590.00	29.78	15.17	44.95	74.00	29.05	100	360	PK
5	11590.00	21.05	15.17	36.22	54.00	17.78	200	360	AV
6	17385.00	21.42	26.15	47.57	68.20	20.63	200	126	PK
7	17385.00	13.21	26.15	39.36	54.00	14.64	400	180	AV

Level[dBμV/m]

Frequency[Hz]

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).

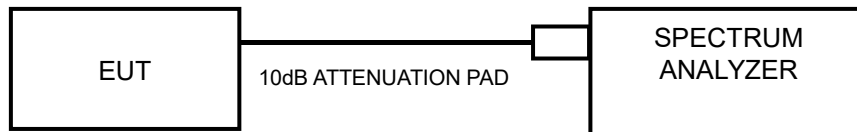
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

3.3 OCCUPIED BANDWIDTH MEASUREMENT

3.3.1 Measurement procedure

The transmitter antenna output was connected to the spectrum analyzer through an attenuator. The resolution bandwidth shall be set to the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth.
below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.

3.3.2 TEST SETUP



3.4 26DB EMISSION BANDWIDTH

3.4.1 LIMITS OF 26DB EMISSION BANDWIDTH

This section is for reporting purpose only, there is on restriction limit of bandwidth

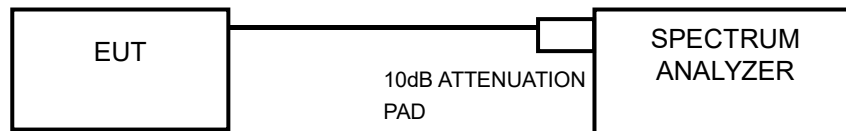
3.4.2 TEST PROCEDURES

FOR 26dB BANDWIDTH

- 1) Set RBW = approximately 1% of the emission bandwidth.
- 2) Set the VBW > RBW.
- 3) Detector = Peak
- 4) Trace mode = max hold.
- 5) 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%.

3.4.3 TEST SETUP

FOR 26dB BANDWIDTH



3.5 6DB EMISSION BANDWIDTH

3.5.1 LIMITS OF 6DB EMISSION BANDWIDTH

The minimum of 6dB Bandwidth Measurement is 0.5MHz.

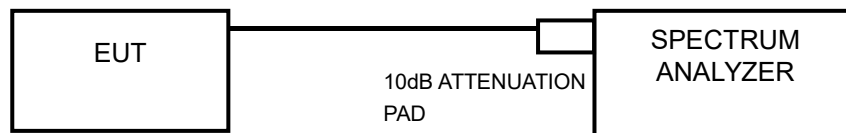
3.5.2 TEST PROCEDURES

FOR 6dB BANDWIDTH

- 1)Set RBW = 100 kHz.
- 2)Set the video bandwidth (VBW) ≥ 3 RBW.
- 3)Detector = Peak.
- 4)Trace mode = max hold.
- 5) Sweep = auto couple.
- 6) Allow the trace to stabilize.
- 7)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.

3.5.3 TEST SETUP

FOR 6dB BANDWIDTH



3.6 TRANSMIT POWER MEASUREMENT

3.6.1 LIMITS OF TRANSMIT POWER MEASUREMENT(FCC)

Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p $\leq$ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
	√	Mobile and Portable client device	250mW (24 dBm)
U-NII-2A	√		250mW(24dBm) or 11 dBm+10LogB*
U-NII-2C	√		250mW(24dBm) or 11 dBm+10LogB*
U-NII-3	√		1 Watt (30 dBm)

NOTE: 1. Where B is the 26dB emission bandwidth in MHz.

3.6.2 LIMITS OF TRANSMIT POWER MEASUREMENT(IC)

FREQUENCY BAND	LIMIT
5.150 ~ 5.250GHz	EIRP shall not exceed 200mW or 10+ 10logB, dBm
5.250 ~ 5.350GHz	Conducted output power shall not exceed 250mW or 11+ 10logB, dBm EIRP shall not exceed 1.0W or 17+ 10logB, dBm
5.470~ 5.600GHz	
5.650 ~ 5.725GHz	
5.725 ~ 5.825GHz	Conducted output power shall not exceed 1 W.

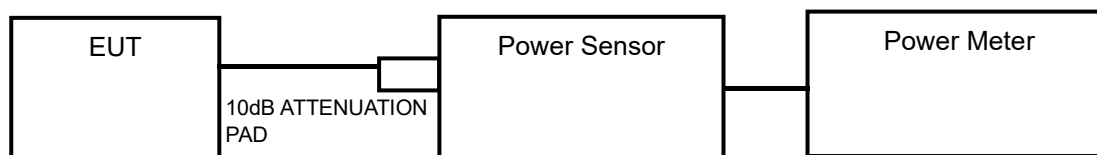
NOTE: Where B is the 99% emission bandwidth in MHz

3.6.3 TEST PROCEDURES

FOR AVERAGE POWER MEASUREMENT

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

3.6.4 TEST SETUP



3.7 POWER SPECTRAL DENSITY MEASUREMENT

3.7.1 LIMITS OF PEAK POWER SPECTRAL DENSITY MEASUREMENT(FCC)

Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	17dBm/ MHz
		Fixed point-to-point Access Point	
		Indoor Access Point	
	√	Mobile and Portable client device	11dBm/ MHz
U-NII-2A	√		11dBm/ MHz
U-NII-2C	√		11dBm/ MHz
U-NII-3	√		30dBm/ 500kHz

3.7.2 .LIMITS OF PEAK POWER SPECTRAL DENSITY MEASUREMENT(IC)

FREQUENCY BAND	LIMIT(dBm)
5.15 ~ 5.25GHz	EIRP spectral density shall not exceed 10 dBm in any 1.0 MHz band.
5.25 ~ 5.35GHz and 5.470 ~ 5.725GHz	Power spectral density shall not exceed 11 dBm in any 1.0 MHz band.
5.725~5825GHz	Power spectral density shall not exceed 30 dBm in any 500 kHz band.

3.7.3 TEST PROCEDURE

For U-NII-1, U-NII-2A, U-NII-2Cband:

Using method SA-2

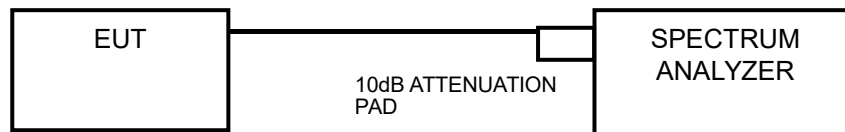
- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 1MHz, Set VBW =3 MHz, Detector = AV
- 3) Set Channel power measure = 1MHz
- 4) Sweep time = auto, trigger set to "free run".
- 5) Trace average at least 100 traces in power averaging mode.
- 6) Record the max value and add 10 log (1/duty cycle)

For U-NII-3 band:

Using method SA-2

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 300 kHz, Set VBW =1 MHz, Detector = AV
- 3) Set Channel power measure = 1MHz
- 4) Sweep time = auto, trigger set to "free run".
- 5) Trace average at least 100 traces in power averaging mode.
- 6) Record the max value and add 10 log (1/duty cycle)

3.7.4 TEST SETUP



3.8 FREQUENCY STABILITY

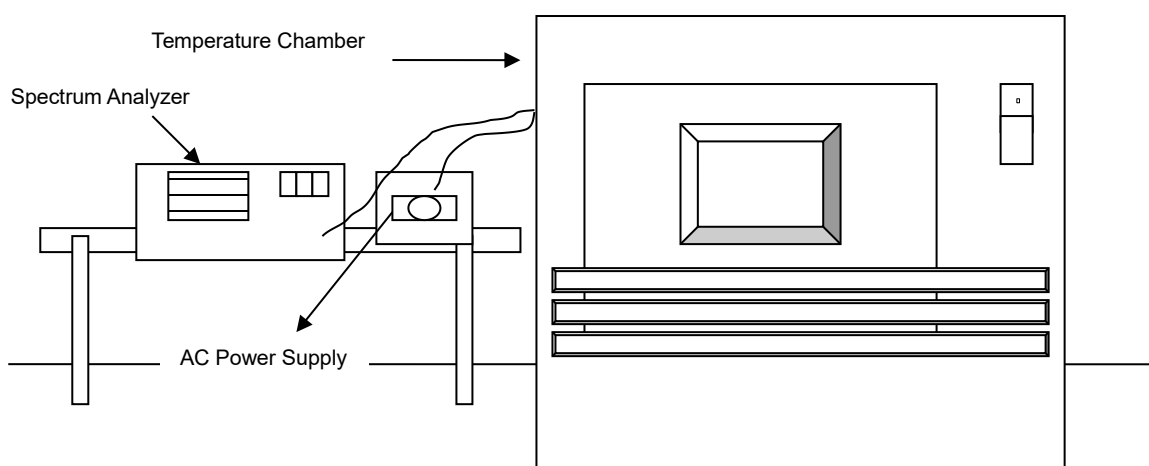
3.8.1 LIMITS OFFREQUENCY STABILITY

The frequency of the carrier signal shall be maintained within band of operation.

3.8.2 TEST PROCEDURES

- The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.
- Turn the EUT on and couple its output to a spectrum analyzer.
- Turn the EUT off and set the chamber to the highest temperature specified.
- Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
- Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
- The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

3.8.3 TEST SETUP



3.9 ANTENNA REQUIREMENT

3.9.1 LIMITS OFFREQUENCY STABILITY

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.

3.9.2 ANTENNA ANTI-REPLACEMENT CONSTRUCTION

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

3.9.3 ANTENNA GAIN

The maximum peak gain of the transmit antenna is 4.55 dBi.

4 PHOTOGRAPHS OF TEST SETUP

Please refer to the attached file (Test Setup Photo).

5 PHOTOGRAPHS OF THE EUT

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

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

Important

- (1) The test report is valid 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”

The test data and test results given in this test report should only be used for purposes of scientific research, teaching and internal quality control when the CMA symbol is not presented.

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