

TEST REPORT

Applicant: YEAHER INC.
EUT Description: Portable Computer
Model Tested: N178B
Model Covered: N178L, N178G, N178R, N178S, N178E
FCC ID: 2BEMH-N178B
Standards: FCC 47 CFR Part 15 Subpart E
Date of Receipt: 2025/07/02
Date of Test: 2025/07/02 to 2025/08/21
Date of Issue: 2025/08/21

TOWE. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

the results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of the model are manufactured with identical electrical and mechanical components. All sample tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise. without written approval of TOWE, the test report shall not be reproduced except in full.



Jim Huang
Approved By:



Carey Chen
Reviewed By:

Revision History

Rev.	Issue Date	Description	Revised by
01	2025/08/21	Original	Carey Chen

Summary of Test Results

Clause	FCC Part	Test Items	Result
4.1	§15.203	Antenna Requirement	PASS
4.2	§15.407g	Frequency Stability	---
4.3	§15.207	AC Power Line Conducted Emission	PASS
4.4	§15.407a(8)	Maximum e.i.r.p. Output Power	PASS
4.5	§15.407b(6) §15.205 §15.209	Unwanted Emissions	PASS

Test Method:

ANSI C63.10:2020.

KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

KDB 987594 D01 U-NII 6GHz General Requirements v01r02.

KDB 987594 D02 U-NII 6GHz EMC Measurement v01r01.

Remark: Pass is EUT meets standard requirements.

Remark 1:

Only the Model No.(N178B) was tested in this report. According to the Declaration Letter about Identity of Products from client, the Model No.: N178B, N178L, N178G, N178R, N178S, N178E, just the model name is different, PCB board, circuit, structure and internal are the same.

Remark 2:

(1) The Host Laptop (FCC ID: 2BEMH-N178B) integrated a certified module from Hon Lin Technology Co., Ltd. (FCC ID: 2AQ68MT7922A22M).

(2) Hon Lin module (FCC ID: 2AQ68MT7922A22M) is a change ID from MediaTek Inc. (FCC ID: RAS-MT7922A22M, grant date 2024/12/26).

(3) The change ID application (FCC ID: 2AQ68MT7922A22M) did not upload test reports, thus the referenced module reports are from MTK module (FCC ID: RAS-MT7922A22M).

(4) The MTK module (FCC ID: RAS-MT7922A22M) was original granted as DSS+DTS+NII on 2021/07/08, then add equipment class of 6XD on 2021/09/27, and then add 6CD on 2023/08/29.

(5) The Host Laptop (FCC ID: 2BEMH-N178B) only apply as DSS+DTS+NII+6XD, the 6CD of standard power level will be disabled by software on the Laptop, the reference module reports are as below:

Equipment Class	Reference test report number from Module (FCC ID: RAS-MT7922A22M)	Reference test items	Re-test items
6XD (Low power level)	RFBARR-WTW-P21030485A-6 (Original) RFBARR-WTW-P21030485L-6 (C2PC) RFBARR-WTW-P21030485P (C2PC)	26dB Bandwidth; 99% Bandwidth; In-band Mask; Power Spectral Density; CBP;	Maximum e.i.r.p. Output Power; AC Power Line Conducted Emission; Unwanted Emissions;
6CD (Standard power level)	RFBARR-WTW-P22120081B-4 (Original) RFBARR-WTW-P22120081S-3 (C2PC)	None	None

Table of Contents

1	General Description	5
1.1	Lab Information	5
1.1.1	Testing Location	5
1.1.2	Test Facility / Accreditations	5
1.2	Client Information	5
1.2.1	Applicant	5
1.2.2	Manufacturer	5
1.3	Product Information	6
2	Test Configuration	7
2.1	Test Channel	7
2.2	Worst-case configuration and Mode	9
2.3	Support Unit used in test	10
2.4	Test Environment	10
2.5	Test RF Cable	10
2.6	Modifications	10
2.7	Test Setup Diagram	11
2.7.1	Conducted Configuration	11
2.7.2	Radiated Configuration	12
3	Equipment and Measurement Uncertainty	14
3.1	Test Equipment List	14
3.2	Measurement Uncertainty	15
4	Test Results	16
4.1	Antenna Requirement	16
4.2	Frequency Stability	16
4.3	AC Power Line Conducted Emissions	17
4.4	Maximum e.i.r.p. Output Power	20
4.5	Unwanted Emissions	21
5	Test Setup Photos	23
	Appendix	24

1 General Description

1.1 Lab Information

1.1.1 Testing Location

These measurements tests were conducted at the Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. facility located at F401 and F101, Building E, Hongwei Industrial Zone, Liuxian 3rd Road, Bao'an District, Shenzhen, China. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014

Tel.: +86-755-27212361

Contact Email: info@towewireless.com

1.1.2 Test Facility / Accreditations

A2LA (Certificate Number: 7088.01)

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

FCC Designation No.: CN1353

Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. has been recognized as an accredited testing laboratory. Designation Number: CN1353.

ISED CAB identifier: CN0152

Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0152

Company Number: 31000

1.2 Client Information

1.2.1 Applicant

Applicant:	YEAHER INC.
Address:	51 Steel Dr, Unit A, New Castle, DE 19720 United States

1.2.2 Manufacturer

Manufacturer:	Nimo Direct Inc.
Address:	51 Steel Dr, Unit A, New Castle, DE 19720 United States

1.3 Product Information

EUT Description:	Portable Computer		
Model Tested:	N178B		
Model Covered:	N178L, N178G, N178R, N178S, N178E		
Hardware Version:	V10		
Software Version:	1.05		
Modulation Type:	802.11a:	OFDM-BPSK, QPSK, 16QAM, 64QAM	
	802.11ax:	OFDM/OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM	
Smart System:	☒ SISO:	802.11a/ax	/
	☒ MIMO	802.11ax	(2)TX(2)RX
	☒ CDD	802.11a	(2)TX(2)RX
Frequency Range:	U-NII-5:	5925 ~ 6425 MHz	
	U-NII-6:	6425 ~ 6525 MHz	
	U-NII-7:	6525 ~ 6875 MHz	
	U-NII-8:	6875 ~ 7125 MHz	
Antenna Type:	FPC Antenna		
Antenna Gain:	Frequency Range	Ant1 (dBi)	Ant2 (dBi)
	5925 ~ 6425 MHz:	1.61	2.83
	6425 ~ 6525 MHz:	-2.02	1.10
	6525 ~ 6875 MHz:	0.52	0.52
	6875 ~ 7125 MHz:	0.41	0.41
Remark: The above EUT's information was declared by applicant, please refer to the specifications or user's manual for more detailed description.			

2 Test Configuration

2.1 Test Channel

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

Frequency Channels for U-NII-5		
Modulation Type	Test Channel	Test Frequency
802.11a/ ax20	The Lowest channel (CH1)	5955MHz
	The Middle channel (CH45)	6175MHz
	The Highest channel (CH93)	6415MHz
Modulation Type	Test Channel	Test Frequency
802.11ax40	The Lowest channel (CH3)	5965MHz
	The Middle channel (CH43)	6165MHz
	The Highest channel (CH91)	6405MHz
Modulation Type	Test Channel	Test Frequency
802.11ax80	The Lowest channel (CH7)	5985MHz
	The Middle channel (CH39)	6145MHz
	The Highest channel (CH87)	6385MHz
Modulation Type	Test Channel	Test Frequency
802.11ax160	The Lowest channel (CH15)	6025MHz
	The Middle channel (CH47)	6185MHz
	The Highest channel (CH79)	6345MHz

Frequency Channels for U-NII-6		
Modulation Type	Test Channel	Test Frequency
802.11a/ ax20	The Lowest channel (CH97)	6435MHz
	The Middle channel (CH105)	6475MHz
	The Highest channel (CH113)	6515MHz
Modulation Type	Test Channel	Test Frequency
802.11ax40	The Lowest channel (CH99)	6445MHz
	The Middle channel (CH107)	6485MHz
	The Highest channel (CH115)	6525MHz
Modulation Type	Test Channel	Test Frequency
802.11ax80	The Middle channel (CH103)	6465MHz
Modulation Type	Test Channel	Test Frequency
802.11ax160	The Middle channel (CH111)	6505MHz

Frequency Channels for U-NII-7		
Modulation Type	Test Channel	Test Frequency
802.11a/ ax20	The Lowest channel (CH117)	6535MHz
	The Middle channel (CH149)	6695MHz
	The Highest channel (CH185)	6875MHz
Modulation Type	Test Channel	Test Frequency
802.11ax40	The Lowest channel (CH123)	6565MHz
	The Middle channel (CH147)	6685MHz
	The Highest channel (CH179)	6845MHz
Modulation Type	Test Channel	Test Frequency
802.11ax80	The Lowest channel (CH119)	6545MHz
	The Middle channel (CH151)	6705MHz
	The Highest channel (CH183)	6865MHz
Modulation Type	Test Channel	Test Frequency
802.11ax160	The Lowest channel (CH143)	6665MHz
	The Highest channel (CH175)	6825MHz

Frequency Channels for U-NII-8		
Modulation Type	Test Channel	Test Frequency
802.11a/ ax20	The Lowest channel (CH189)	6895MHz
	The Middle channel (CH209)	6995MHz
	The Highest channel (CH233)	7115MHz
Modulation Type	Test Channel	Test Frequency
802.11ax40	The Lowest channel (CH187)	6885MHz
	The Middle channel (CH203)	6965MHz
	The Highest channel (CH227)	7085MHz
Modulation Type	Test Channel	Test Frequency
802.11ax80	The Lowest channel (CH199)	6945MHz
	The Highest channel (CH215)	7025MHz
Modulation Type	Test Channel	Test Frequency
802.11ax160	The Middle channel (CH207)	6985MHz

Straddle Channel		
Modulation Type	Test Channel	Test Frequency
802.11a/ ax20	The channel (CH185)	6875MHz
Modulation Type	Test Channel	Test Frequency
802.11ax40	The channel (CH115)	6525MHz
	The channel (CH187)	6885MHz
Modulation Type	Test Channel	Test Frequency
802.11ax80	The channel (CH119)	6545MHz
	The channel (CH183)	6865MHz
Modulation Type	Test Channel	Test Frequency
802.11ax160	The channel (CH111)	6505MHz
	The channel (CH175)	6825MHz

2.2 Worst-case configuration and Mode

Modulation Type	SISO - Data Rate	CDD/MIMO(2)TX(2)RX Data Rate
802.11a	6 Mbps	12 Mbps
802.11ax20	MCS0 (8.6 Mbps)	MCS0 (17.2 Mbps)
802.11ax40	MCS0 (17.2 Mbps)	MCS0 (34.4 Mbps)
802.11ax80	MCS0 (36.0 Mbps)	MCS0 (72.1 Mbps)
802.11ax160	MCS0 (72.1 Mbps)	MCS0 (144.1 Mbps)
Transmitting mode:	Keep the EUT was programmed to be in continuously transmitting mode.	
Normal Link:	Keep the EUT operation to normal function.	

Test RU Types & Channel Bandwidth:

RU Types	ax20	ax40	ax80	ax160
26-tone RU	26 tone_0 26 tone_8	/	/	/
52-tone RU	52 tone_37 52 tone_40	/	/	/
106-tone RU	106 tone_53 106 tone_54	/	/	/
242-tone RU	/	242 tone 61 242 tone 62	/	/
484-tone RU	/	/	484 tone 65 484 tone 66	/
996-tone RU	/	/	/	996 tone 67 996 tone 68

2.3 Support Unit used in test

The EUT has been tested as an independent unit.

2.4 Test Environment

Temperature:	Normal: 15°C ~ 35°C
Humidity:	45 ~ 56 % RH Ambient
Voltage:	DC 20V
AC Voltage:	AC 120V/60Hz for Conducted Emissions
Remark: The testing environment is within the scope of the EUT user manual and meets the requirements of the standard testing environment.	

2.5 Test RF Cable

For all conducted test items: The offset level is set spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

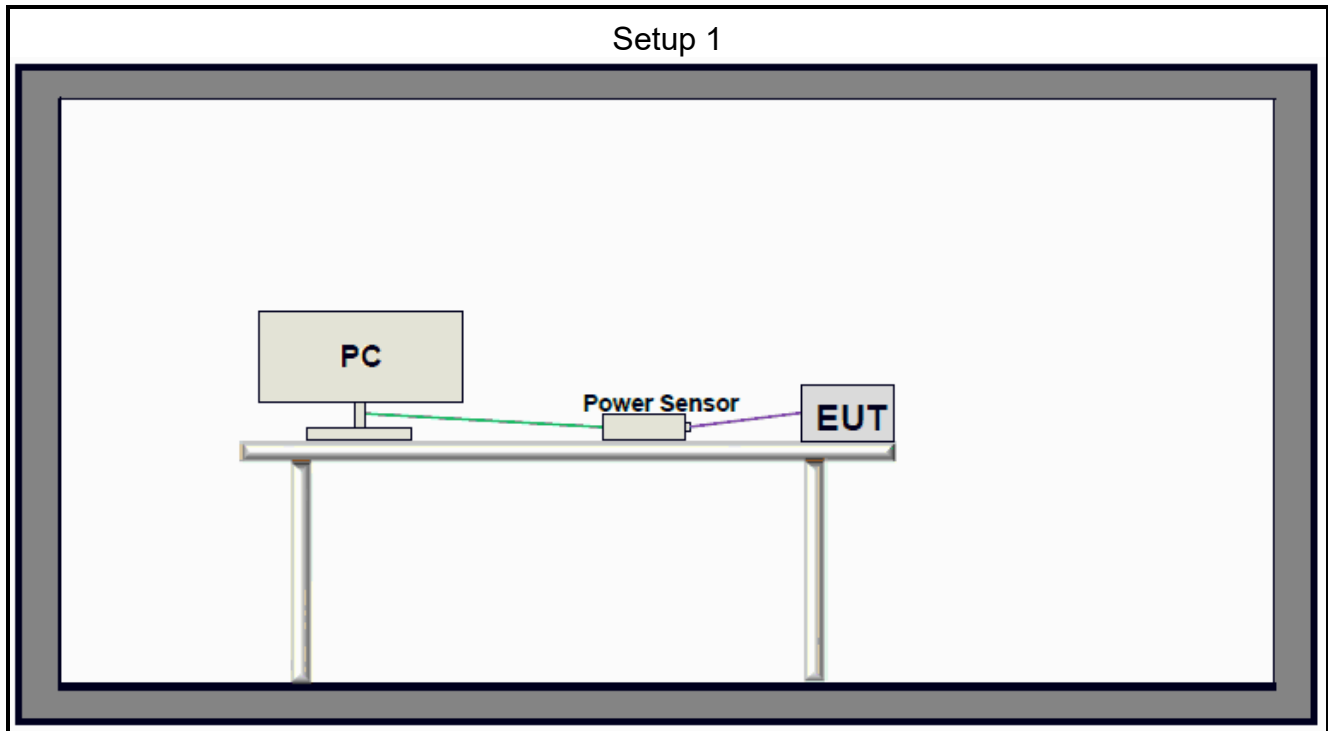
Offset = RF cable loss + attenuator factor.

2.6 Modifications

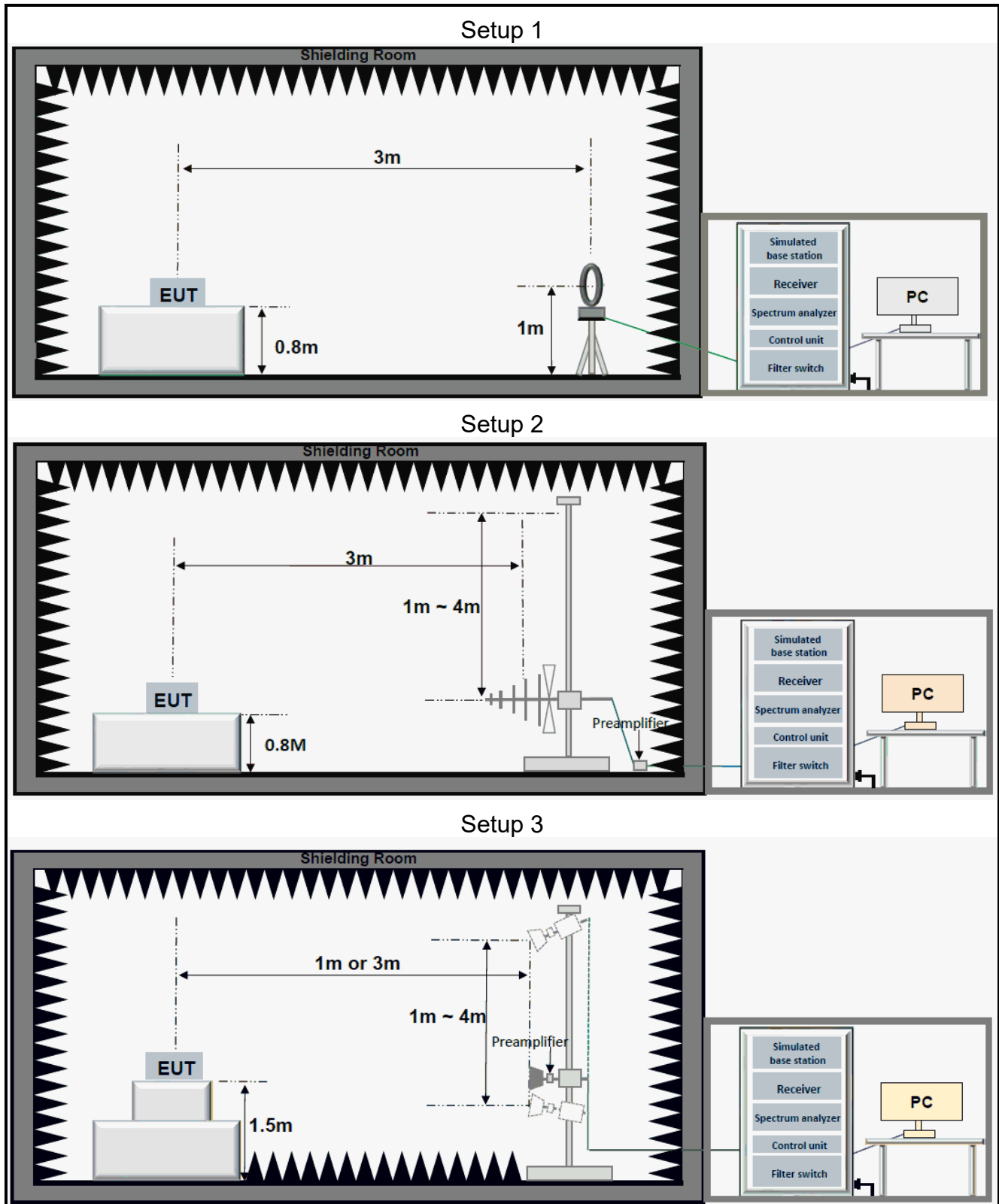
No modifications were made during testing.

2.7 Test Setup Diagram

2.7.1 Conducted Configuration



2.7.2 Radiated Configuration



Directional gain calculations:

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

If all antennas have the same gain, G_{ANT} , Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

- For power spectral density (PSD) measurements on all devices

$$\text{Array Gain} = 10 \log(N_{ANT}/N_{SS}=1) \text{ dB}$$

- For power measurements on IEEE 802.11 devices:

$$\text{Array Gain} = 0 \text{ dB (i.e., no array gain) for } N_{ANT} \leq 4;$$

$$\text{Array Gain} = 0 \text{ dB (i.e., no array gain) for channel widths } \geq 40 \text{ MHz for any } N_{ANT};$$

$$\text{Array Gain} = 5 \log(N_{ANT}/N_{SS}=1) \text{ dB or } 3 \text{ dB, whichever is less, for 20-MHz channel widths with } N_{ANT} \geq 5.$$

Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain.

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

- If transmit signals are correlated, then

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

- If all transmit signals are completely uncorrelated, then

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

The Power and PSD limit should be modified if the directional gain of EUT is over 6dBi.

The EUT supports CDD System.

Transmit signals are completely correlated				
Operation Band	ANT Gain1 (dBi)	ANT Gain2 (dBi)	Directional gain For Power (dBi)	Directional gain For PSD (dBi)
5925 ~ 6425 MHz:	1.61	2.83	2.83	5.25
6425 ~ 6525 MHz:	-2.02	1.10	1.10	2.69
6525 ~ 6875 MHz:	0.52	0.52	0.52	3.53
6875 ~ 7125 MHz:	0.41	0.41	0.41	3.42

3 Equipment and Measurement Uncertainty

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, whichever is less, and where applicable is traceable to recognized national standards.

3.1 Test Equipment List

RF Conducted					
Description	Manufacturer	Model	S.N.	Last Due	Cal Due
Signal Analyzer	Keysight	N9020A	US46470429	2025/03/14	2026/03/13
Signal Generator	R&S	SMR20	101027	2025/03/11	2026/03/10
Vector Signal Generator	R&S	SMM100A	549353	2025/05/29	2026/05/28
Power Sensor	Anritsu	MA24408A	12520	2025/05/29	2026/05/28
RF Control Unit	Tonscend	JS0806-2	23C80620671	2025/05/29	2026/05/28
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY63440541	2025/05/29	2026/05/28
Attenuator	Yin Saige	SMA-10dBm	N/A	N/A	N/A
Measurement Software	Tonscend	TS1120-3	10659	N/A	N/A

Radiated Emission					
Description	Manufacturer	Model	S.N.	Last Due	Cal Due
Biconic Logarithmic Periodic Antennas	Schwarzbeck	VULB9163	1643	2023/06/25	2026/06/24
Double-Ridged Horn Antennas	Schwarzbeck	BBHA 9120D	2809	2023/06/25	2026/06/24
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	1290	2023/06/25	2026/06/24
Loop Antenna	Schwarzbeck	FMZB 1519C	1519C-028	2023/06/29	2026/06/28
Signal Analyzer	Keysight	N9020A	MY49100252	2025/03/11	2026/03/10
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY63440541	2025/05/29	2026/05/28
Wideband Radio Communication Tester	R&S	CMW500	150645	2025/03/11	2026/03/10
Low Noise Amplifier	Tonscend	TAP9K3G40	AP23A8060273	2025/03/11	2027/03/10
Low Noise Amplifier	Tonscend	TAP01018050	AP22G806258	2025/03/11	2027/03/10
Low Noise Amplifier	Tonscend	TAP18040048	AP22G806247	2025/03/11	2027/03/10
Hygrometer	BINGYU	HTC-1	N/A	2024/07/29	2025/07/28
				2025/07/25	2026/07/24
Band Reject Filter Group	Townshend	JS0806-F	23A806F0652	N/A	N/A
Test Software	Tonscend	TS+	Version: 5.0.0	N/A	N/A

Conducted Emission					
Description	Manufacturer	Model	S.N.	Last Due	Cal Due
EMI Tester Receiver	Rohde & Schwarz	ESR3	103108	2025/05/29	2026/05/28
LISN	Rohde & Schwarz	ENV 216	102836	2025/01/04	2026/01/03
Test software	Rohde & Schwarz	ELEKTRA V4.61	N/A	N/A	N/A

3.2 Measurement Uncertainty

Parameter	U _{lab}
Output Power	0.76dB
Conducted Emissions(150kHz~30MHz)	2.43dB
Radiated Emissions(9kHz~30MHz)	2.40dB
Radiated Emissions(30MHz~1000MHz)	4.66dB
Radiated Emissions(1GHz~18GHz)	5.42dB
Radiated Emissions(18GHz~40GHz)	5.46dB

Uncertainty figures are valid to a confidence level of 95%

4 Test Results

4.1 Antenna Requirement

Standard Applicable:	47 CFR Part 15C Section 15.203
15.203 requirement: 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	
The antenna gain and type as provided by the manufacturer are as follows: The antenna Type is FPC Antenna. With Antenna gain is 5925 ~ 6425 MHz: 1.61dBi(Ant1); 2.83dBi(Ant2); 6425 ~ 6525 MHz: -2.02dBi(Ant1); 1.10dBi(Ant2); 6525 ~ 6875 MHz: 0.52dBi(Ant1); 0.52dBi(Ant2); 6875 ~ 7125 MHz: 0.41dBi(Ant1); 0.41dBi(Ant2); Antenna Anti-Replacement Construction: An embedded-in antenna design is used.	

4.2 Frequency Stability

Standard Applicable:	47 CFR Part 15E Section 15.407(g)
Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.	

4.3 AC Power Line Conducted Emissions

Limits

Frequency range (MHz)	Limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

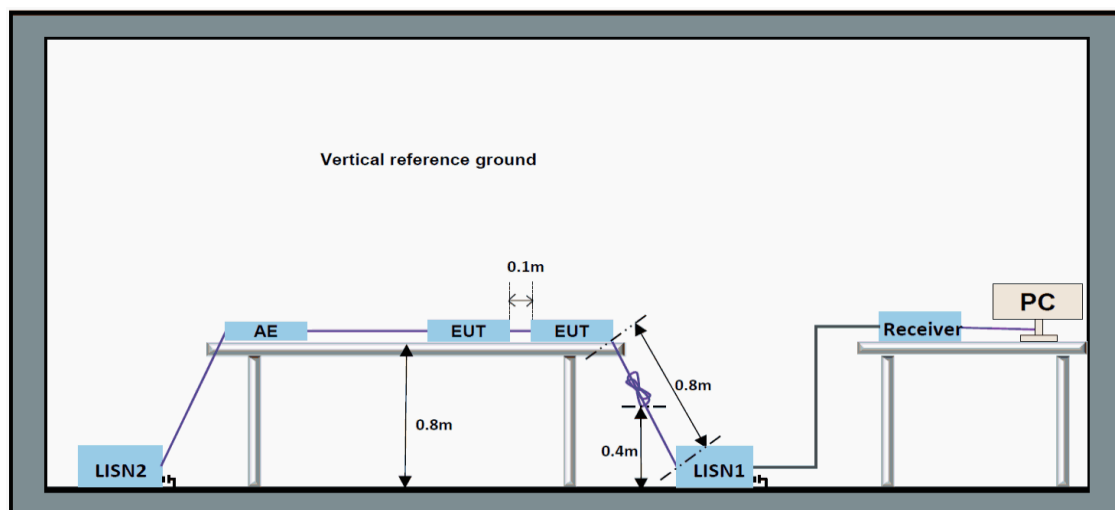
Test Procedure

ANSI C63.10:2020, Section 6.2.

Test Settings

1. The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu\text{H} + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
2. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
3. The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
4. Set the test-receiver system to Peak detect function and specified bandwidth (if bandwidth =9kHz) with maximum hold mode. Then measurement is also conducted by average detector and Quasi-Peak detector function respectively.
5. Both sides of AC line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Test Setup

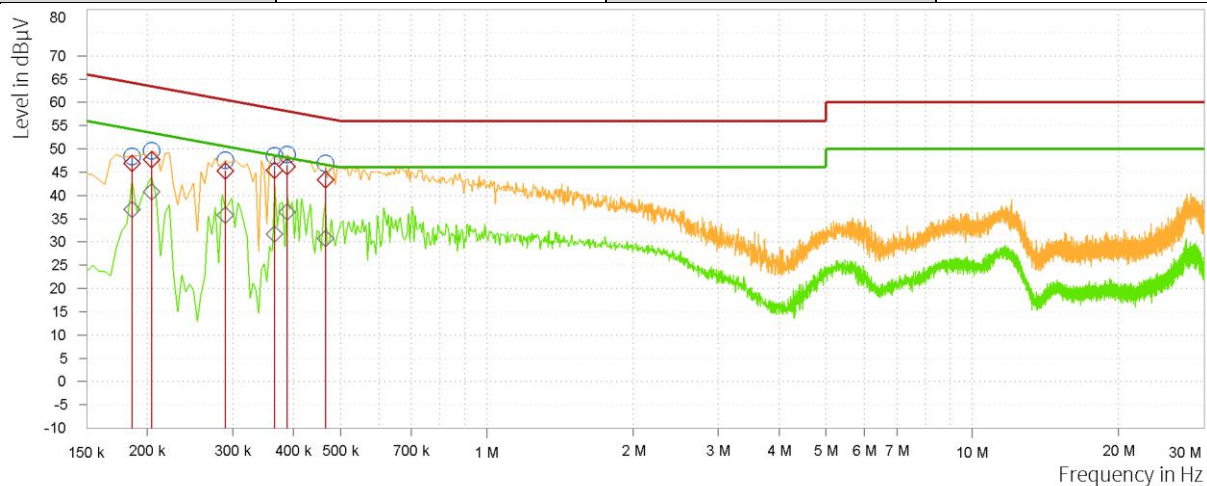


Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.

Test Result:

Test mode:	6G WIFI		
Test Voltage:	AC 120V / 60Hz	Phase:	Line

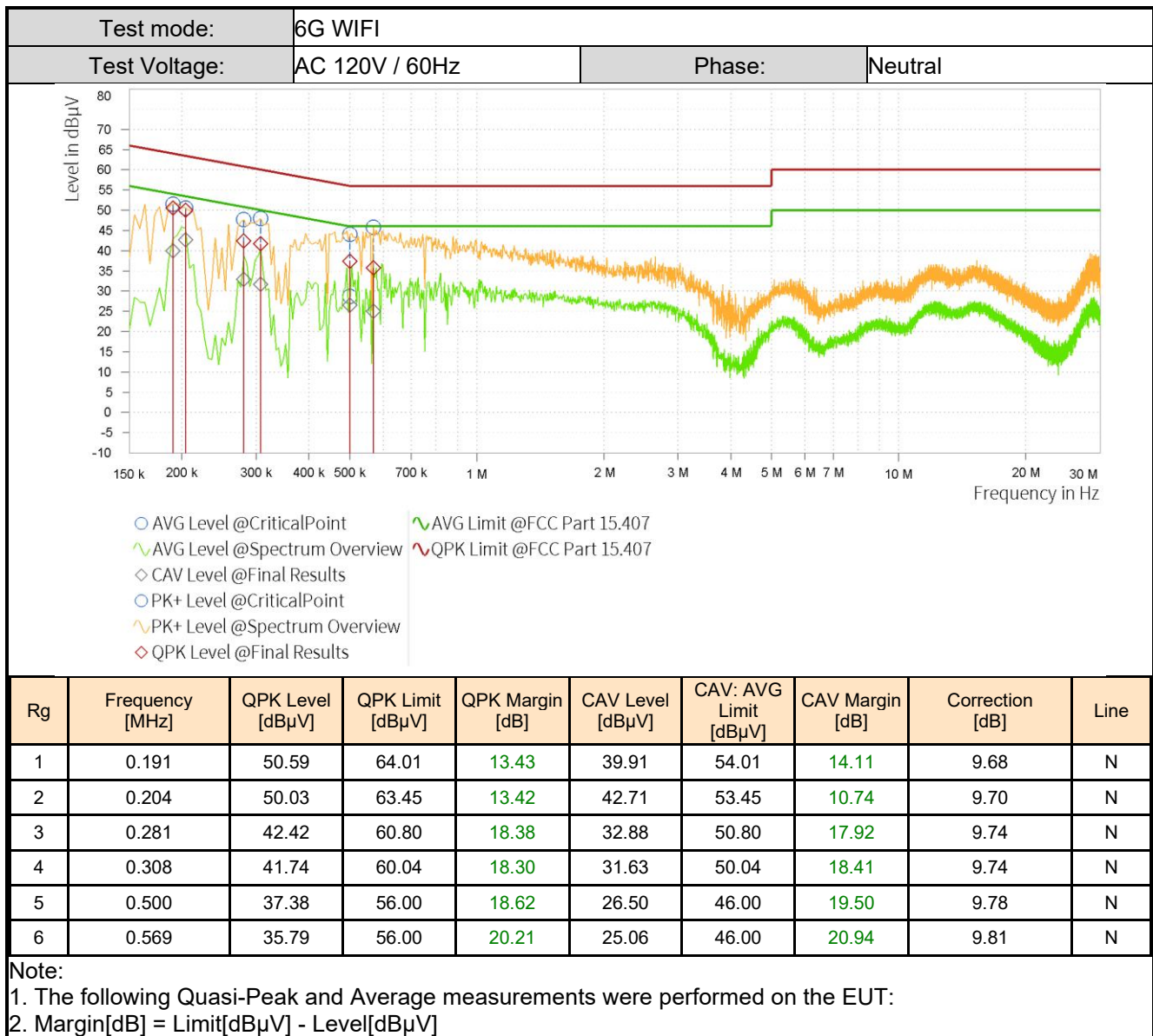


○ AVG Level @CriticalPoint
 ▲ AVG Level @Spectrum Overview
 ◇ CAV Level @Final Results
 ○ PK+ Level @CriticalPoint
 ▲ PK+ Level @Spectrum Overview
 ◇ QPK Level @Final Results
 ▲ AVG Limit @FCC Part 15.407
 ▼ QPK Limit @FCC Part 15.407

Rg	Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	CAV Level [dBμV]	CAV: AVG Limit [dBμV]	CAV Margin [dB]	Correction [dB]	Line
1	0.186	46.86	64.21	17.36	37.02	54.21	17.19	9.50	L1
2	0.204	47.64	63.45	15.80	40.83	53.45	12.62	9.53	L1
3	0.290	45.23	60.54	15.31	35.81	50.54	14.73	9.72	L1
4	0.366	45.45	58.59	13.14	31.71	48.59	16.88	9.63	L1
5	0.389	46.17	58.10	11.93	36.48	48.10	11.62	9.70	L1
6	0.465	43.36	56.60	13.25	30.73	46.60	15.87	9.69	L1

Note:

- The following Quasi-Peak and Average measurements were performed on the EUT:
- $\text{Margin[dB]} = \text{Limit[dB}\mu\text{V]} - \text{Level[dB}\mu\text{V]}$



4.4 Maximum e.i.r.p. Output Power

Limits

For client devices operating under the control of an indoor access point in the 5.925-7.125 GHz bands, the maximum power spectral density must not exceed -1 dBm e.i.r.p. in any 1-megahertz band, and the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm.

Test Procedure

ANSI C63.10:2020 Section 12.4.2(Straddle Channel) &12.4.3.2(Other Channel).

Test Settings

1. PM-G:
Set to the maximum power setting and enable the EUT transmit continuously.
The power output was measured on the EUT antenna port using RF Cable with an attenuator connected to a power sensor. Output power was read directly from the power sensor.
Measure and record the results in the test report.
2. SA:
RBW = 1MHz
VBW $\geq$ 3MHz
Span = Encompass the EBW (or, alternatively, the entire 99% occupied bandwidth)
Sweep = Auto
Detector = power averaging (rms)

Test Setup

Refer to section 2.7.1- Setup 1 for details.

Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.

Test Result

The detailed test data see: **Appendix**.

4.5 Unwanted Emissions

Limits

For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27 dBm/MHz.

Spurious emissions are permitted in an of the frequency bands:

MHz	MHz	MHz	MHz	GHz	GHz
0.090 - 0.110	12.29 - 12.293	149.9 - 150.05	1660 - 1710	4.5 - 5.15	14.47 - 14.5
0.495 - 0.505	12.51975 - 12.52025	156.52475 - 156.52525	1718.8 - 1722.2	5.35 - 5.46	15.35 - 16.2
2.1735 - 2.1905	12.5767 - 12.57725	156.7 - 156.9	2200 - 2300	7.25 - 7.75	17.7 - 21.4
4.125 - 128	13.36 - 13.41	162.0125 - 167.17	2310 - 2390	8.025 - 8.5	22.01 - 23.12
4.17725 - 4.17775	16.42 - 16.423	167.72 - 173.2	2483.5 - 2500	9.0 - 9.2	23.6 - 24.0
4.20725 - 4.20775	16.69475 - 16.69525	240 - 285	2655 - 2900	9.3 - 9.5	31.2 - 31.8
6.215 - 6.218	1680425 - 1680475	322 - 335.4	3260 - 3267	10.6 - 12.7	36.43 - 36.5
6.26775 - 6.26825	25.5 - 25.67	399.9 - 410	3332 - 3339	13.25 - 13.4	
6.31175 - 6.31225	37.5 - 38.25	608 - 614	3345.8 - 3358		
8.291 - 8.294	73 - 74.6	960 - 1240	3600 - 4400		
8.362 - 8.366	74.8 - 75.2	1300 - 1427			
8.37625 - 8.38675	108 - 121.94	1435 - 1626.5			
8.41425 - 8.41475	123 - 138	1645.5 - 1646.5			

Radiated disturbance of an intentional radiator:

Frequency	Field strength ($\mu\text{V}/\text{m}$)	Limit (dB $\mu\text{V}/\text{m}$)	Remark	Measurement distance (m)
0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
1.705MHz-30MHz	30	-	-	30
30MHz-88MHz	100	40.0	Quasi-peak	3
88MHz-216MHz	150	43.5	Quasi-peak	3
216MHz-960MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1GHz	500	74.0	Peak	3
		54.0	Average	

Measurement methods

ANSI C63.10:2020 Section 6.4 & 6.5 & 6.6.

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Section II.G.3 ~ 6.

Test Settings

1. For radiated emissions measurements performed at frequencies less than or equal to 1GHz, the EUT shall be placed on a RF-transparent table or support at a nominal height of 80cm above the reference ground plane.
2. For radiated emissions measurements performed at frequencies above 1GHz, the EUT shall be placed on a RF-transparent table or support at a nominal height of 80cm above the ground plane.
3. Radiated measurements shall be made with the measurement antenna positioned in both horizontal and vertical polarization. The measurement antenna shall be varied from 1m to 4m in height above the reference ground in a search for the relative positioning that produces the maximum radiated signal level (i.e, field strength or received power), when orienting the measurement antenna in vertical polarization, the minimum height of the lowest element of the antenna shall clear the site reference ground plane by at least 25cm.
4. For each suspected emission, the EUT was ranged its worst case and then tune the antenna tower(from 1~4m) and turntable(from 0~360°) find the maximum reading. Preamplifier and a high pass filter are used for the test in order get better signal level comply with the guidelines.
5. Set to the maximum power setting and enable the EUT transmit continuously.
6. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.
7. spectrum analyzer setting:
Measurements Below 1000MHz: RBW = 120 kHz; VBW ≥ 300 kHz; Detector = Peak
Measurements Above 1000MHz: RBW = 1 MHz; VBW ≥ 3 MHz; Detector = Peak
Average Measurements Above 1000MHz:
RBW = 1 MHz, VBW ≥ 1/T, with peak detector for average measurements.
8. The field strength is calculated by adding the Antenna Factor, Cable Factor. The basic equation with a sample calculation is as follows:
Level = Reading(dBμV) + AF(dB/m) + Factor(dB):
AF = Antenna Factor(dB/m)
Factor = Cable Factor(dB) - Preamplifier gain(dB)
Margin = Limit(dBμV/m) – Level(dBμV/m)
9. Repeat above procedures until all frequencies measured was complete.
10. Measure and record the results in the test report.

Test Notes

1. Emissions below 18GHz were measured at a 3-meter test distance while emissions above 18GHz were measured at a 1-meter test distance with the application of a distance correction factor.
2. Radiated spurious emissions were investigated from 9kHz to 30MHz, 30MHz-1GHz and above 1GHz. the disturbance between 9kHz to 30MHz and 18GHz to 40GHz was very low. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be recorded, so only the harmonics had been displayed.
3. These frequencies which near "-" should be ignored because they are Fundamental frequency.

Test Setup

Refer to section 2.7.2 for details.

Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.

Test Result

The detailed test data see: **Appendix**.

5 Test Setup Photos

The detailed test data see: **Appendix A - BTWIFI Setup Photos**

Appendix

Maximum e.i.r.p. Output Power Test Result

Test Mode	Frequency [MHz]	Ant1 (dBm)	EIRP Limit [dBm]	Verdict
11a-SISO	5955	6.24	≤24.00	PASS
	6175	6.38	≤24.00	PASS
	6415	6.62	≤24.00	PASS
	6435	6.93	≤24.00	PASS
	6475	6.98	≤24.00	PASS
	6515	6.98	≤24.00	PASS
	6535	7.01	≤24.00	PASS
	6715	6.86	≤24.00	PASS
	6855	7.00	≤24.00	PASS
	6875	6.71	≤24.00	PASS
	7015	7.58	≤24.00	PASS
	7115	6.98	≤24.00	PASS
11ax160SISO	6025	12.28	≤24.00	PASS
	6185	12.23	≤24.00	PASS
	6345	12.15	≤24.00	PASS
	6505	12.71	≤24.00	PASS
	6665	12.28	≤24.00	PASS
	6825	12.23	≤24.00	PASS
	6985	12.13	≤24.00	PASS

Test Mode	Frequency [MHz]	Mode	RU#Size	RU#Index	Ant1 (dBm)	Ant2 (dBm)	total (dBm)	EIRP Limit [dBm]	Verdict
11a	5955	CDD	/	/	-1.69	0.21	2.37	≤24.00	PASS
	6175		/	/	-1.08	0.23	2.63	≤24.00	PASS
	6415		/	/	-1.1	0.36	2.70	≤24.00	PASS
	6435		/	/	-1.13	-0.06	2.45	≤24.00	PASS
	6475		/	/	-1.68	0.23	2.39	≤24.00	PASS
	6515		/	/	-1.38	-0.46	2.11	≤24.00	PASS
	6535		/	/	-0.62	0.42	2.94	≤24.00	PASS
	6715		/	/	-0.57	-0.11	2.68	≤24.00	PASS
	6855		/	/	-0.25	0.13	2.95	≤24.00	PASS
	6875		/	/	-0.13	0.3	3.10	≤24.00	PASS
	7015		/	/	0.07	0.68	3.40	≤24.00	PASS
	7115		/	/	0.13	0.92	3.55	≤24.00	PASS
11ax20	5955	MIMO	/	/	-0.12	0.75	3.35	≤24.00	PASS
	6175		/	/	-0.44	1.09	3.40	≤24.00	PASS
	6415		/	/	0.19	1.34	3.81	≤24.00	PASS
	6435		/	/	1.12	2.03	4.61	≤24.00	PASS
	6475		/	/	1.11	1.96	4.57	≤24.00	PASS
	6515		/	/	0.71	2.01	4.42	≤24.00	PASS
	6535		/	/	-0.62	0.72	3.11	≤24.00	PASS
	6715		/	/	0.29	0.88	3.61	≤24.00	PASS
	6855		/	/	0.17	0.75	3.48	≤24.00	PASS
	6875		/	/	1.03	1.28	4.17	≤24.00	PASS
	7015		/	/	0.45	1.07	3.78	≤24.00	PASS
	7115		/	/	1.23	2.02	4.65	≤24.00	PASS
11ax40	5965	MIMO	/	/	1.26	2.12	4.72	≤24.00	PASS
	6165		/	/	2.27	3.77	6.09	≤24.00	PASS
	6405		/	/	2	3.2	5.65	≤24.00	PASS
	6445		/	/	2.21	3.51	5.92	≤24.00	PASS
	6485		/	/	3.61	3.99	6.81	≤24.00	PASS
	6525		/	/	2.24	3.53	5.94	≤24.00	PASS
	6565		/	/	2.58	3.29	5.96	≤24.00	PASS
	6725		/	/	2.75	3.06	5.92	≤24.00	PASS
	6845		/	/	2.69	3.14	5.93	≤24.00	PASS
	6885		/	/	2.81	3.01	5.92	≤24.00	PASS
	7005		/	/	3.36	4.07	6.74	≤24.00	PASS
	7085		/	/	2.58	3.41	6.03	≤24.00	PASS
11ax80	5985	MIMO	/	/	3.85	5.97	8.05	≤24.00	PASS
	6145		/	/	5.01	6.63	8.91	≤24.00	PASS
	6385		/	/	6.01	6.68	9.37	≤24.00	PASS
	6465		/	/	5.42	6.56	9.04	≤24.00	PASS

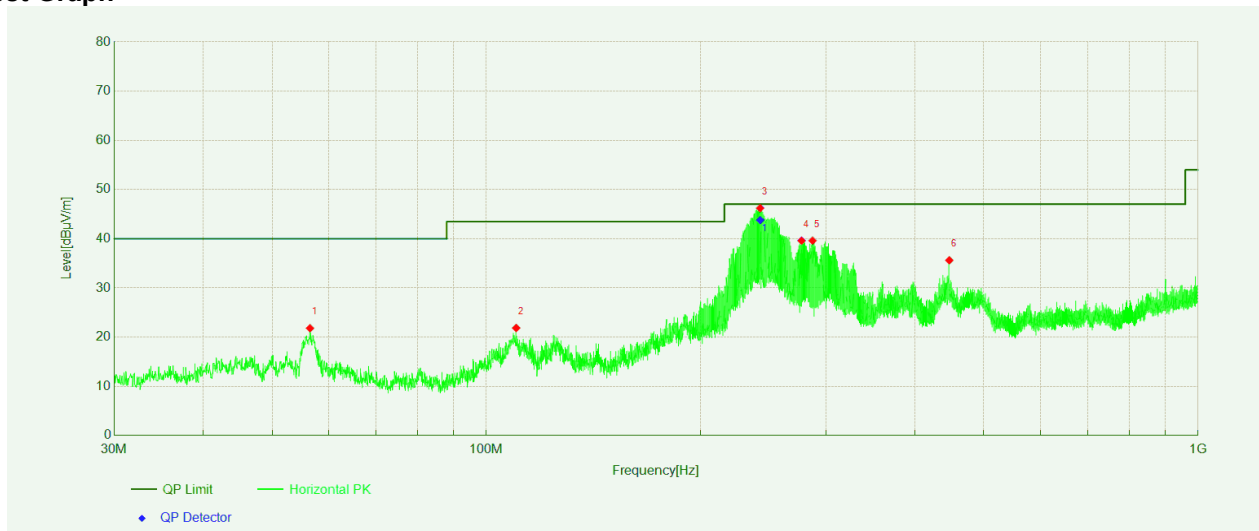
Test Mode	Frequency [MHz]	Mode	RU#Size	RU#Index	Ant1 (dBm)	Ant2 (dBm)	total (dBm)	EIRP Limit [dBm]	Verdict
	6545		/	/	5.59	7.18	9.47	≤24.00	PASS
	6625		/	/	5.18	6.77	9.06	≤24.00	PASS
	6705		/	/	5.23	6.13	8.71	≤24.00	PASS
	6785		/	/	5.33	5.56	8.46	≤24.00	PASS
	6865		/	/	5.86	6.33	9.11	≤24.00	PASS
	6945		/	/	6.33	6.8	9.58	≤24.00	PASS
	7025		/	/	6.06	6.81	9.46	≤24.00	PASS
11ac160	6025	MIMO	/	/	7.02	8.62	10.90	≤24.00	PASS
	6185		/	/	7.55	8.85	11.26	≤24.00	PASS
	6345		/	/	7.79	8.95	11.42	≤24.00	PASS
	6505		/	/	8.03	9.23	11.68	≤24.00	PASS
	6665		/	/	8.59	9.4	12.02	≤24.00	PASS
	6825		/	/	7.56	7.81	10.70	≤24.00	PASS
	6985		/	/	8.57	9.06	11.83	≤24.00	PASS
11ax20	5955	RU	26	0	-8.37	-7.57	-4.94	≤24.00	PASS
			106	53	-3.75	-1.95	0.25	≤24.00	PASS
	6415		26	8	-8.03	-7.22	-4.60	≤24.00	PASS
			106	54	-2.93	-2.12	0.50	≤24.00	PASS
	6435		26	0	-7.74	-7.77	-4.74	≤24.00	PASS
			106	53	-2.93	-2.05	0.54	≤24.00	PASS
	6535		26	0	-8.23	-7.52	-4.85	≤24.00	PASS
			106	53	-3.12	-2.21	0.37	≤24.00	PASS
	6855		26	8	-7.16	-7.88	-4.49	≤24.00	PASS
			106	54	-2.34	-2.78	0.46	≤24.00	PASS
	7115		26	8	-9.92	-9.08	-6.47	≤24.00	PASS
			52	40	-6.93	-6.26	-3.57	≤24.00	PASS
			106	54	-5.13	-4.35	-1.71	≤24.00	PASS

Radiated Spurious Emissions

Test Result Below 1GHz

Project Information			
Mode:	6E(11ax160 MIMO)	Band:	-
IMEI:	-	Engineer:	Ou shuyan
Remark:			

Test Graph



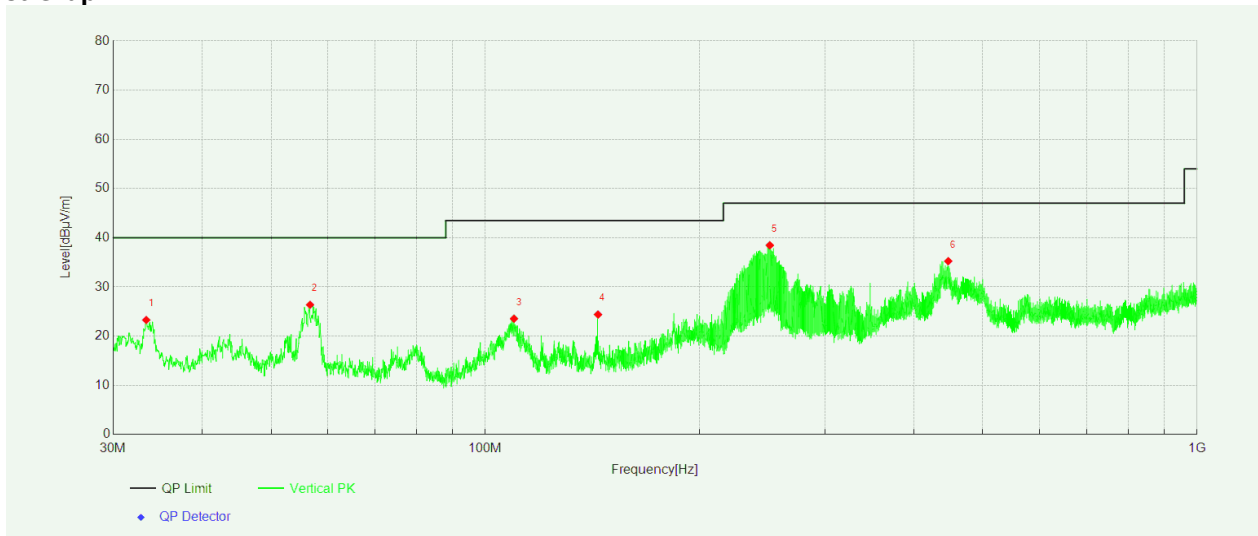
Data List								
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Polarity	Verdict
1	56.53	44.77	-22.96	21.81	40.00	18.19	Horizontal	PASS
2	110.17	43.99	-22.13	21.86	43.50	21.64	Horizontal	PASS
3	242.54	67.76	-21.54	46.22	47.00	0.78	Horizontal	PASS
4	277.31	59.77	-20.16	39.61	47.00	7.39	Horizontal	PASS
5	287.35	59.30	-19.69	39.61	47.00	7.39	Horizontal	PASS
6	447.27	44.34	-8.72	35.62	47.00	11.38	Horizontal	PASS

Data List							
NO.	Freq. [MHz]	QP Reading [dBuV]	QP Value [dBuV/m]	QP Limit [dBuV/m]	QP Margin [dB]	Polarity	Verdict
1	242.575227	65.33	43.79	47.00	3.21	Horizontal	PASS

Project Information

Mode:	6E(11ax160 MIMO)	Band:	-
IMEI:	-	Engineer:	Ou shuyan
Remark:			

Test Graph



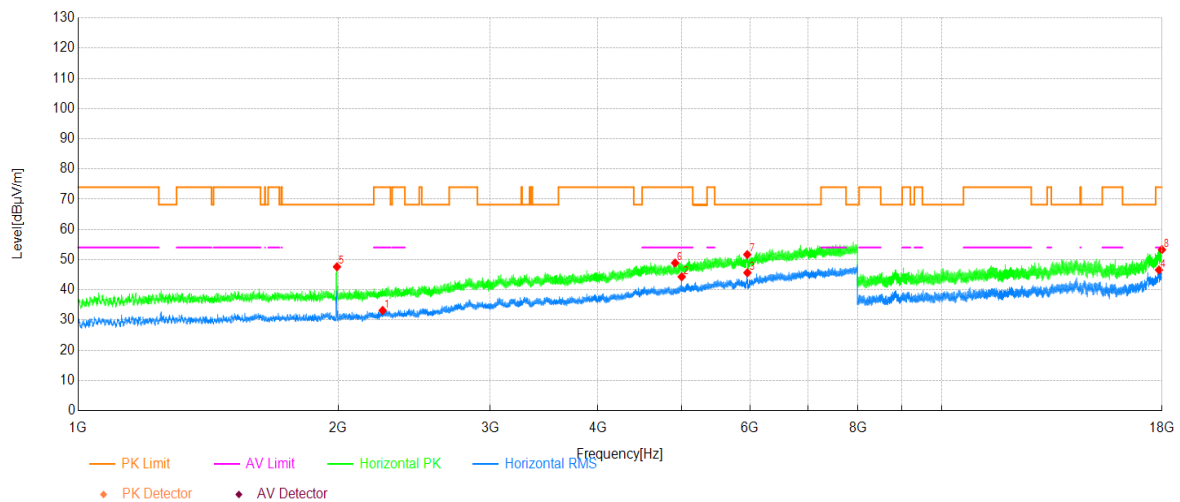
Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	33.40	48.47	-25.19	23.28	40.00	16.72	Vertical	PASS
2	56.72	49.75	-23.38	26.37	40.00	13.63	Vertical	PASS
3	109.74	46.31	-22.76	23.55	43.50	19.95	Vertical	PASS
4	143.98	49.59	-25.19	24.40	43.50	19.10	Vertical	PASS
5	251.03	58.93	-20.46	38.47	47.00	8.53	Vertical	PASS
6	447.07	44.26	-9.02	35.24	47.00	11.76	Vertical	PASS

Test Result Above 1GHz

Project Information			
Mode:	SISO 802.11a	Band:	U-NII-5
Bandwidth	20MHz	Channel	1
IMEI:	--	Engineer:	Ou shuyan
Remark:			

Test Graph

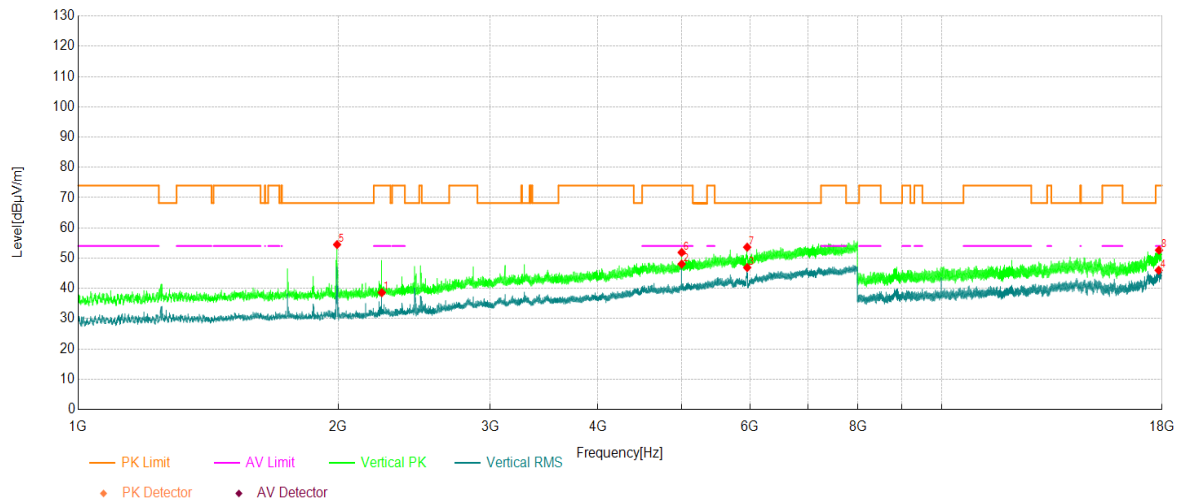


Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	2252.30	30.95	2.21	33.16	54.00	20.84	Horizontal	PASS
2	5000.50	30.80	13.52	44.32	54.00	9.68	Horizontal	PASS
3	5957.40	29.65	16.01	45.66	-	-	Horizontal	NA
4	17853.00	32.62	13.97	46.59	54.00	7.41	Horizontal	PASS
5	1994.00	46.39	1.23	47.62	68.20	20.58	Horizontal	PASS
6	4912.65	35.72	13.18	48.90	74.00	25.10	Horizontal	PASS
7	5955.65	35.67	16.01	51.68	-	-	Horizontal	NA
8	17993.33	39.31	13.98	53.29	74.00	20.71	Horizontal	PASS

Project Information

Mode:	SISO 802.11a	Band:	U-NII-5
Bandwidth	20MHz	Channel	1
IMEI:	--	Engineer:	Ou shuyan
Remark:			

Test Graph



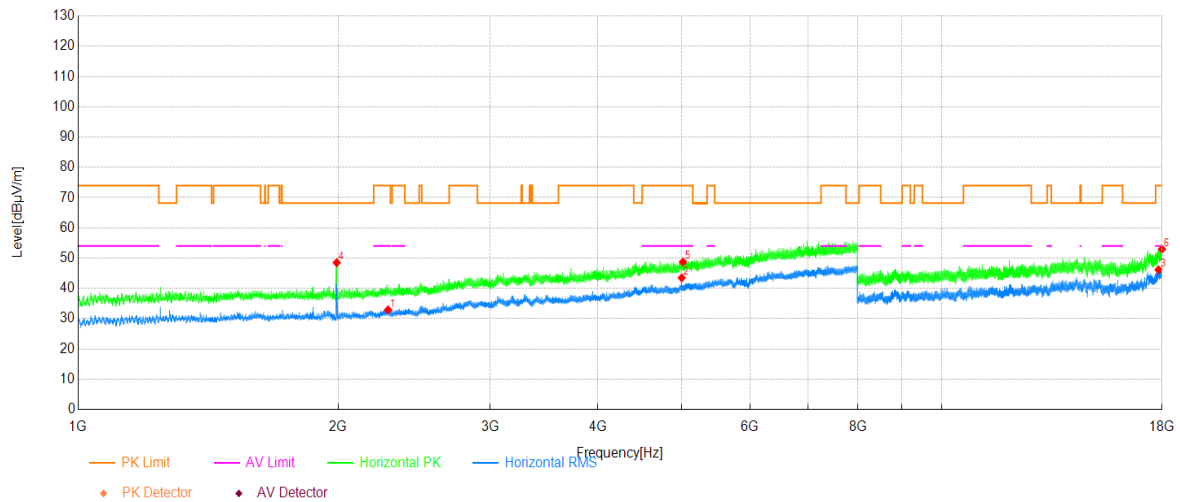
Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	2247.40	36.42	2.19	38.61	54.00	15.39	Vertical	PASS
2	5000.50	34.56	13.52	48.08	54.00	5.92	Vertical	PASS
3	5954.60	30.88	16.01	46.89	-	-	Vertical	NA
4	17841.33	32.21	13.78	45.99	54.00	8.01	Vertical	PASS
5	1994.70	53.26	1.22	54.48	68.20	13.72	Vertical	PASS
6	5000.15	38.38	13.52	51.90	74.00	22.10	Vertical	PASS
7	5954.25	37.62	16.01	53.63	-	-	Vertical	NA
8	17855.33	38.72	13.93	52.65	74.00	21.35	Vertical	PASS

Project Information

Mode:	SISO 802.11a	Band:	U-NII-5
Bandwidth	20MHz	Channel	45
IMEI:	--	Engineer:	Ou shuyan
Remark:			

Test Graph



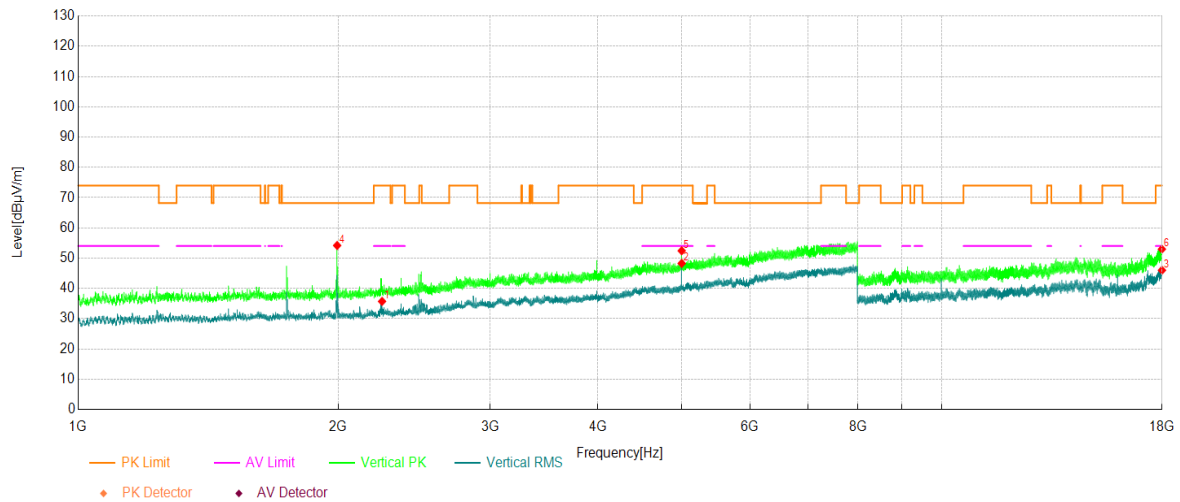
Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	2284.85	30.73	2.16	32.89	54.00	21.11	Horizontal	PASS
2	5000.50	29.98	13.52	43.50	54.00	10.50	Horizontal	PASS
3	17830.66	32.68	13.49	46.17	54.00	7.83	Horizontal	PASS
4	1992.95	47.28	1.24	48.52	68.20	19.68	Horizontal	PASS
5	5017.30	35.16	13.56	48.72	74.00	25.28	Horizontal	PASS
6	17994.33	38.95	14.00	52.95	74.00	21.05	Horizontal	PASS

Project Information

Mode:	SISO 802.11a	Band:	U-NII-5
Bandwidth	20MHz	Channel	45
IMEI:	--	Engineer:	Ou shuyan
Remark:			

Test Graph



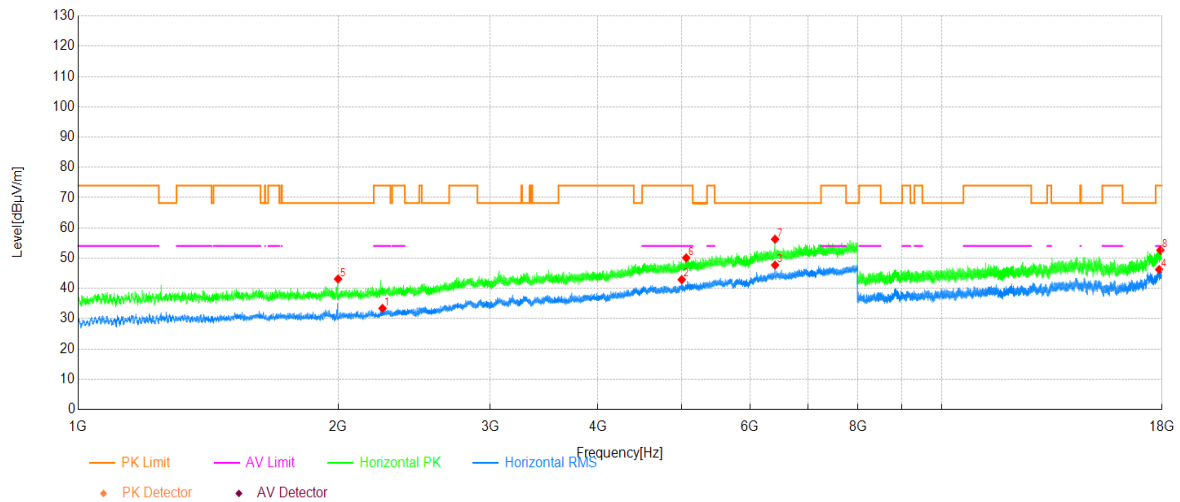
Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	2248.80	33.50	2.21	35.71	54.00	18.29	Vertical	PASS
2	5000.50	34.76	13.52	48.28	54.00	5.72	Vertical	PASS
3	17995.33	32.01	14.00	46.01	54.00	7.99	Vertical	PASS
4	1995.05	52.97	1.22	54.19	68.20	14.01	Vertical	PASS
5	5000.15	38.93	13.52	52.45	74.00	21.55	Vertical	PASS
6	17992.33	38.99	13.98	52.97	74.00	21.03	Vertical	PASS

Project Information

Mode:	SISO 802.11a	Band:	U-NII-5
Bandwidth	20MHz	Channel	93
IMEI:	--	Engineer:	Ou shuyan
Remark:			

Test Graph



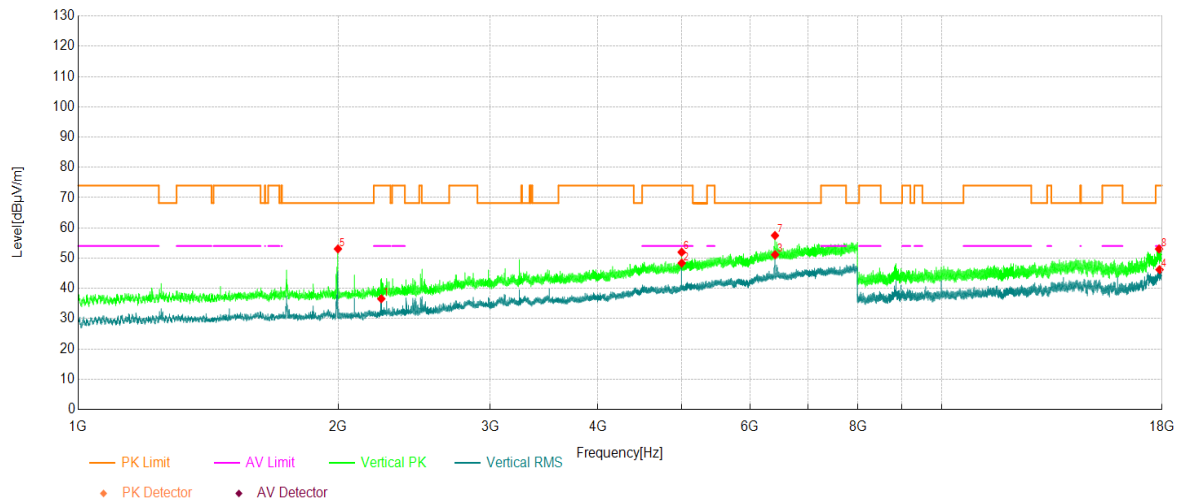
Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	2251.60	31.20	2.21	33.41	54.00	20.59	Horizontal	PASS
2	5000.50	29.39	13.52	42.91	54.00	11.09	Horizontal	PASS
3	6413.80	29.98	17.73	47.71	-	-	Horizontal	NA
4	17862.00	32.46	13.81	46.27	54.00	7.73	Horizontal	PASS
5	1999.95	41.95	1.17	43.12	68.20	25.08	Horizontal	PASS
6	5061.05	36.32	13.78	50.10	74.00	23.90	Horizontal	PASS
7	6413.45	38.53	17.73	56.26	-	-	Horizontal	NA
8	17923.00	39.27	13.39	52.66	74.00	21.34	Horizontal	PASS

Project Information

Mode:	SISO 802.11a	Band:	U-NII-5
Bandwidth	20MHz	Channel	93
IMEI:	--	Engineer:	Ou shuyan
Remark:			

Test Graph



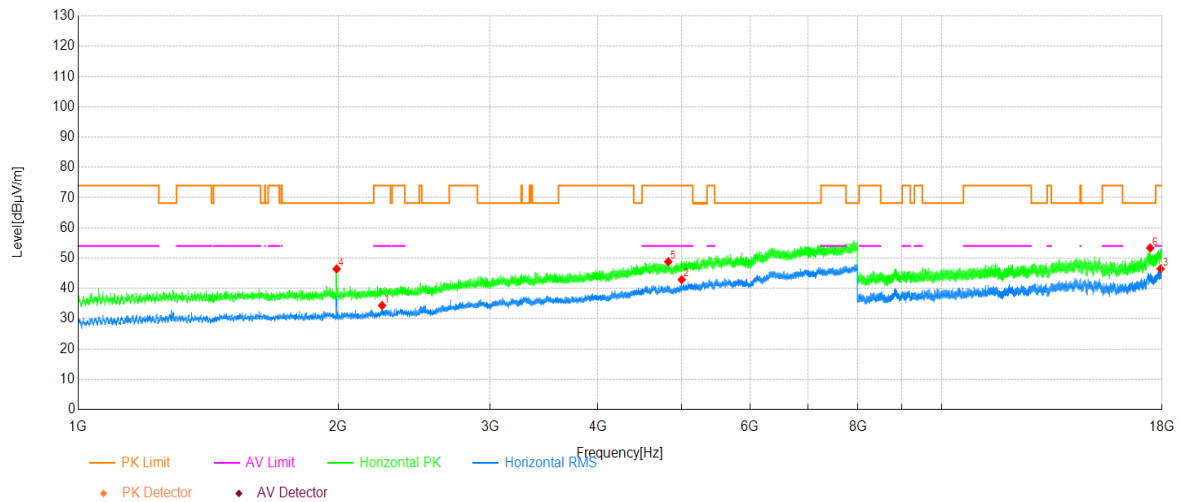
Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	2244.25	34.41	2.17	36.58	54.00	17.42	Vertical	PASS
2	5000.50	34.86	13.52	48.38	54.00	5.62	Vertical	PASS
3	6414.15	33.42	17.73	51.15	-	-	Vertical	NA
4	17882.00	32.74	13.47	46.21	54.00	7.79	Vertical	PASS
5	1999.25	51.88	1.17	53.05	68.20	15.15	Vertical	PASS
6	5000.15	38.46	13.52	51.98	74.00	22.02	Vertical	PASS
7	6412.75	39.75	17.73	57.48	-	-	Vertical	NA
8	17857.00	39.13	13.90	53.03	74.00	20.97	Vertical	PASS

Project Information

Mode:	SISO 802.11a	Band:	U-NII-6
Bandwidth	20MHz	Channel	97
IMEI:	--	Engineer:	Ou shuyan
Remark:			

Test Graph



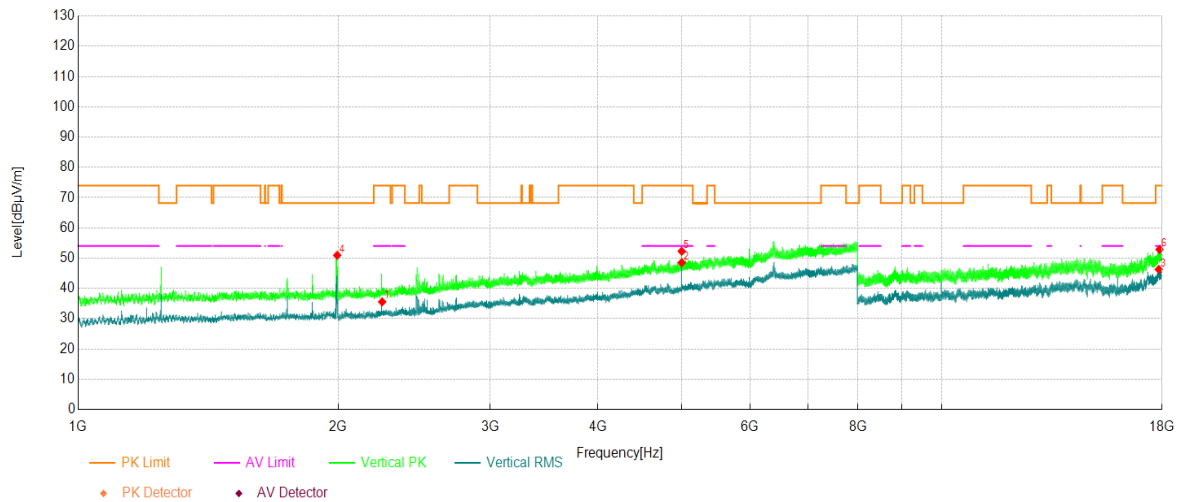
Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	2249.15	32.18	2.17	34.35	54.00	19.65	Horizontal	PASS
2	5000.50	29.63	13.25	42.88	54.00	11.12	Horizontal	PASS
3	17934.00	32.98	13.50	46.48	54.00	7.52	Horizontal	PASS
4	1992.60	45.13	1.31	46.44	68.20	21.76	Horizontal	PASS
5	4824.10	35.63	13.19	48.82	74.00	25.18	Horizontal	PASS
6	17440.31	41.24	12.12	53.36	68.20	14.84	Horizontal	PASS

Project Information

Mode:	SISO 802.11a	Band:	U-NII-6
Bandwidth	20MHz	Channel	97
IMEI:	--	Engineer:	Ou shuyan
Remark:			

Test Graph



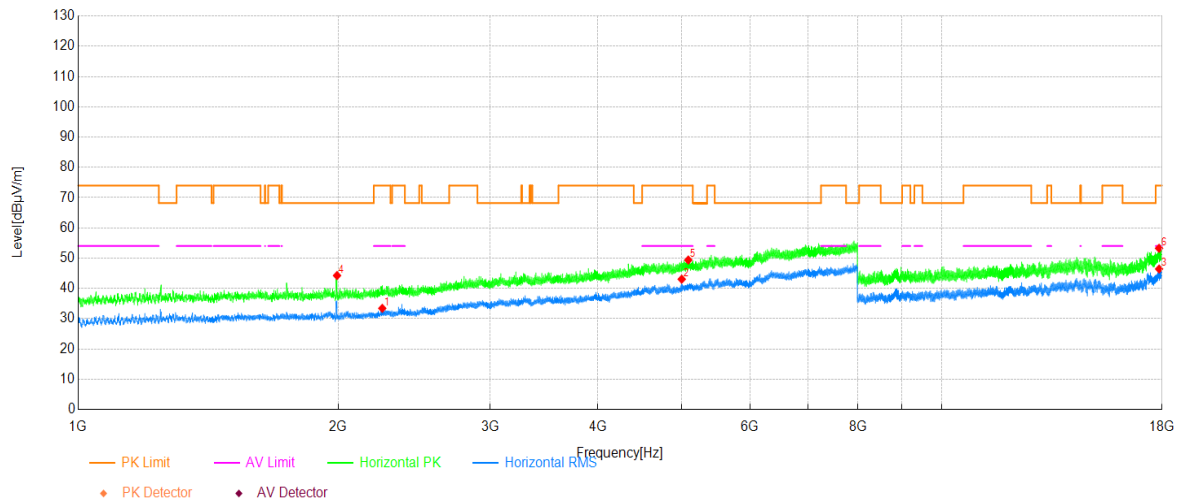
Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	2249.50	33.39	2.18	35.57	54.00	18.43	Vertical	PASS
2	5000.50	35.28	13.25	48.53	54.00	5.47	Vertical	PASS
3	17843.99	32.44	13.86	46.30	54.00	7.70	Vertical	PASS
4	1995.40	49.66	1.29	50.95	68.20	17.25	Vertical	PASS
5	5000.15	39.03	13.25	52.28	74.00	21.72	Vertical	PASS
6	17879.00	39.36	13.53	52.89	74.00	21.11	Vertical	PASS

Project Information

Mode:	SISO 802.11a	Band:	U-NII-6
Bandwidth	20MHz	Channel	105
IMEI:	--	Engineer:	Ou shuyan
Remark:			

Test Graph



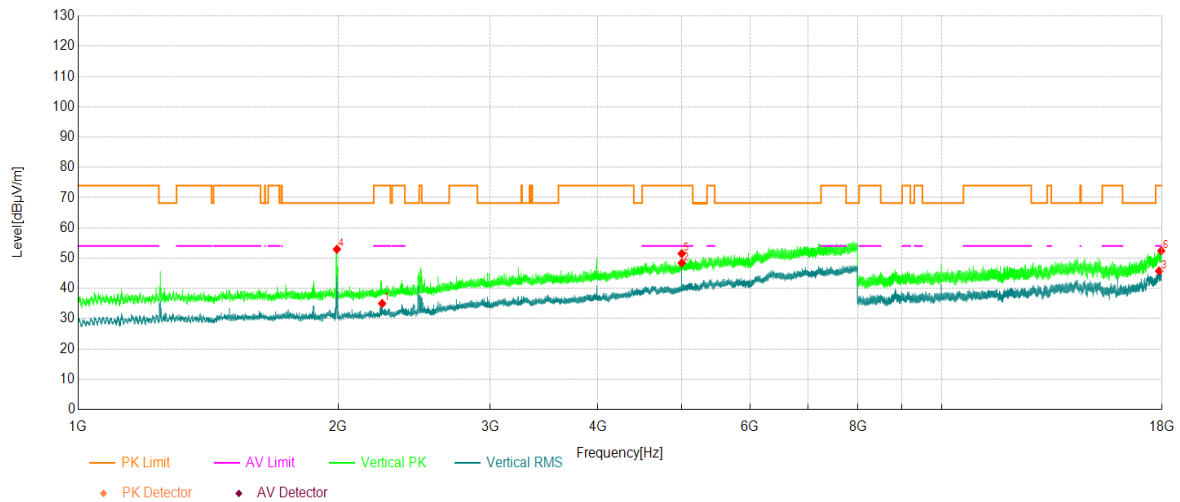
Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	2250.20	31.25	2.18	33.43	54.00	20.57	Horizontal	PASS
2	5000.50	29.79	13.25	43.04	54.00	10.96	Horizontal	PASS
3	17859.66	32.57	13.86	46.43	54.00	7.57	Horizontal	PASS
4	1994.35	42.96	1.30	44.26	68.20	23.94	Horizontal	PASS
5	5088.70	35.42	13.96	49.38	74.00	24.62	Horizontal	PASS
6	17857.00	39.35	13.90	53.25	74.00	20.75	Horizontal	PASS

Project Information

Mode:	SISO 802.11a	Band:	U-NII-6
Bandwidth	20MHz	Channel	105
IMEI:	--	Engineer:	Ou shuyan
Remark:			

Test Graph



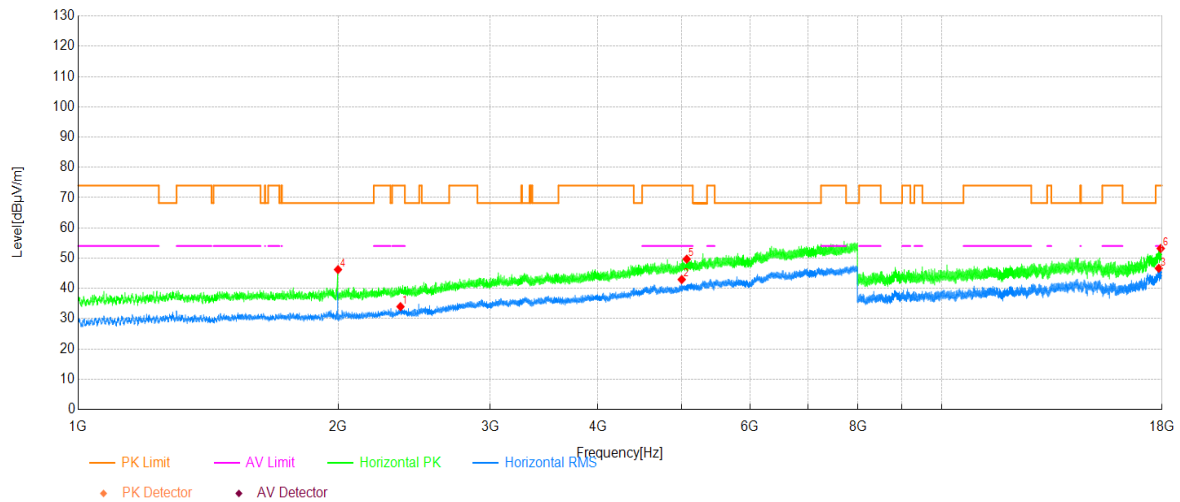
Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	2249.50	32.82	2.18	35.00	54.00	19.00	Vertical	PASS
2	5000.50	35.15	13.25	48.40	54.00	5.60	Vertical	PASS
3	17861.33	31.93	13.82	45.75	54.00	8.25	Vertical	PASS
4	1993.65	51.65	1.31	52.96	68.20	15.24	Vertical	PASS
5	5000.15	38.23	13.25	51.48	74.00	22.52	Vertical	PASS
6	17964.00	38.67	13.76	52.43	74.00	21.57	Vertical	PASS

Project Information

Mode:	SISO 802.11a	Band:	U-NII-6
Bandwidth	20MHz	Channel	113
IMEI:	--	Engineer:	Ou shuyan
Remark:			

Test Graph



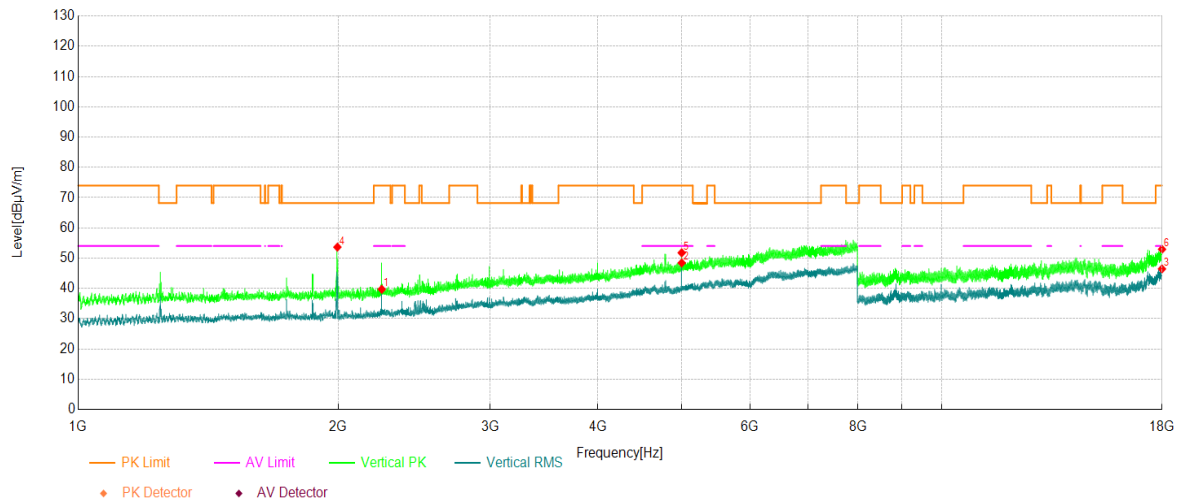
Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	2362.20	31.53	2.45	33.98	54.00	20.02	Horizontal	PASS
2	5000.50	29.69	13.25	42.94	54.00	11.06	Horizontal	PASS
3	17845.33	32.76	13.89	46.65	54.00	7.35	Horizontal	PASS
4	1999.60	44.96	1.26	46.22	68.20	21.98	Horizontal	PASS
5	5067.70	35.87	13.82	49.69	74.00	24.31	Horizontal	PASS
6	17937.33	39.67	13.53	53.20	74.00	20.80	Horizontal	PASS

Project Information

Mode:	SISO 802.11a	Band:	U-NII-6
Bandwidth	20MHz	Channel	113
IMEI:	--	Engineer:	Ou shuyan
Remark:			

Test Graph



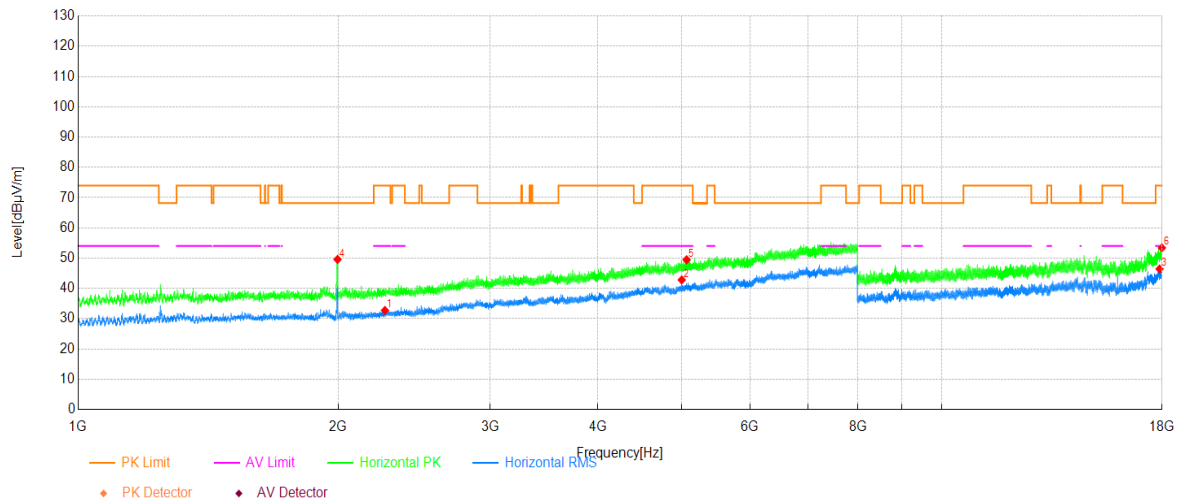
Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	2247.05	37.56	2.15	39.71	54.00	14.29	Vertical	PASS
2	5000.50	35.18	13.25	48.43	54.00	5.57	Vertical	PASS
3	17996.33	32.43	14.02	46.45	54.00	7.55	Vertical	PASS
4	1996.45	52.37	1.28	53.65	68.20	14.55	Vertical	PASS
5	5000.15	38.53	13.25	51.78	74.00	22.22	Vertical	PASS
6	17999.67	38.90	14.04	52.94	74.00	21.06	Vertical	PASS

Project Information

Mode:	SISO 802.11a	Band:	U-NII-7
Bandwidth	20MHz	Channel	117
IMEI:	--	Engineer:	Ou shuyan
Remark:			

Test Graph



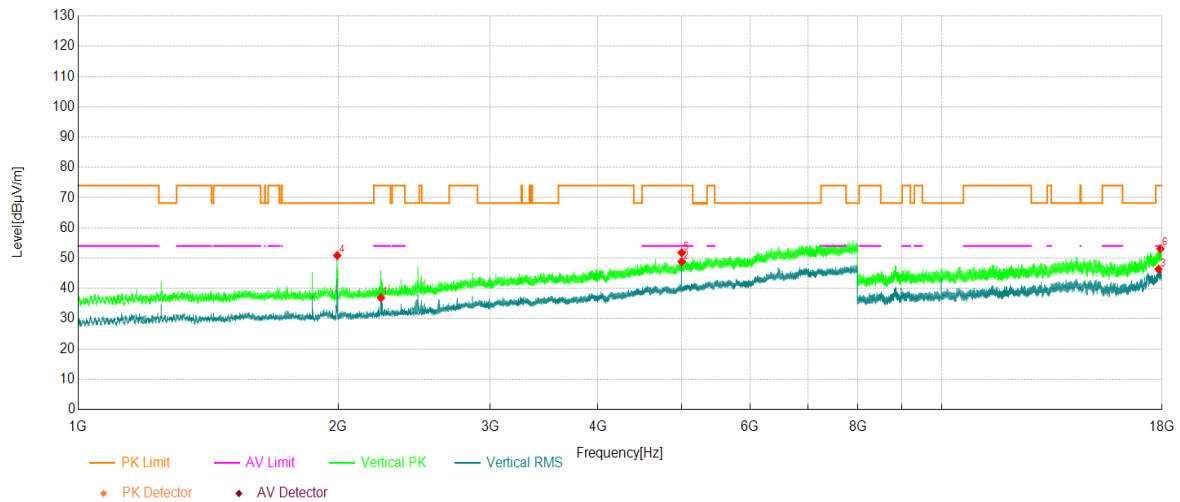
Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	2266.30	30.66	2.06	32.72	54.00	21.28	Horizontal	PASS
2	5000.50	29.60	13.22	42.82	54.00	11.18	Horizontal	PASS
3	17882.66	32.96	13.47	46.43	54.00	7.57	Horizontal	PASS
4	1997.15	48.36	1.22	49.58	68.20	18.62	Horizontal	PASS
5	5065.95	35.84	13.63	49.47	74.00	24.53	Horizontal	PASS
6	17992.33	39.43	13.98	53.41	74.00	20.59	Horizontal	PASS

Project Information

Mode:	SISO 802.11a	Band:	U-NII-7
Bandwidth	20MHz	Channel	117
IMEI:	--	Engineer:	Ou shuyan
Remark:			

Test Graph



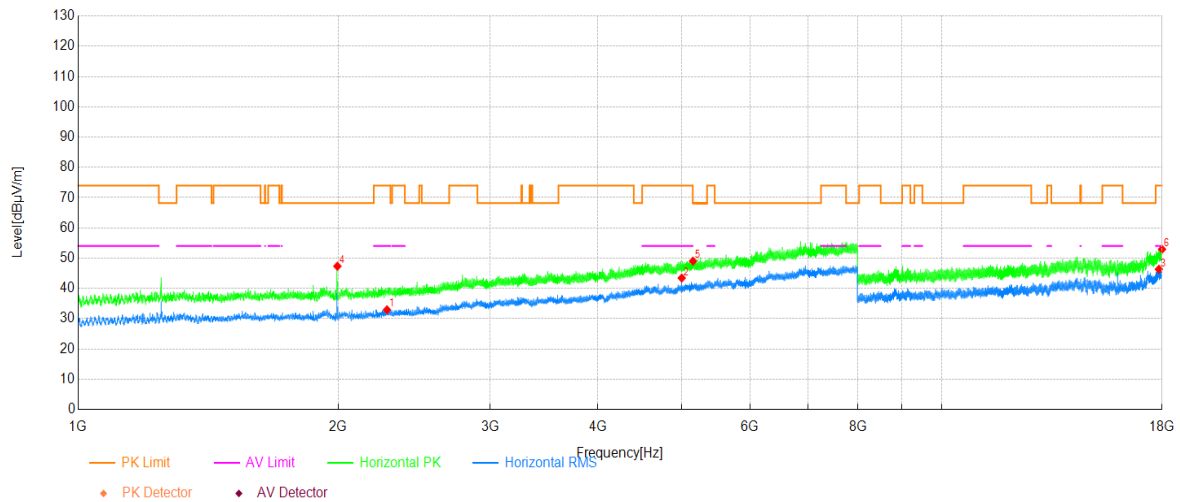
Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	2242.15	34.88	2.04	36.92	54.00	17.08	Vertical	PASS
2	5000.50	35.60	13.22	48.82	54.00	5.18	Vertical	PASS
3	17836.33	32.69	13.65	46.34	54.00	7.66	Vertical	PASS
4	1995.40	49.61	1.25	50.86	68.20	17.34	Vertical	PASS
5	5000.15	38.58	13.22	51.80	74.00	22.20	Vertical	PASS
6	17923.00	39.71	13.39	53.10	74.00	20.90	Vertical	PASS

Project Information

Mode:	SISO 802.11a	Band:	U-NII-7
Bandwidth	20MHz	Channel	153
IMEI:	--	Engineer:	Ou shuyan
Remark:			

Test Graph



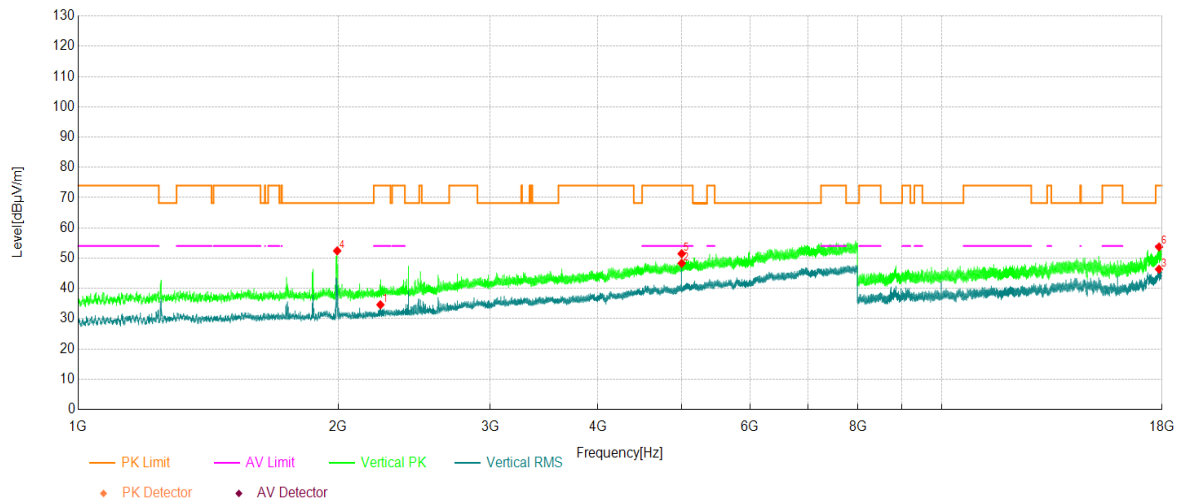
Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	2278.55	30.93	2.01	32.94	54.00	21.06	Horizontal	PASS
2	5000.50	30.22	13.22	43.44	54.00	10.56	Horizontal	PASS
3	17848.99	32.35	13.99	46.34	54.00	7.66	Horizontal	PASS
4	1996.45	46.11	1.23	47.34	68.20	20.86	Horizontal	PASS
5	5152.05	34.91	14.11	49.02	68.20	19.18	Horizontal	PASS
6	17997.00	38.91	14.02	52.93	74.00	21.07	Horizontal	PASS

Project Information

Mode:	SISO 802.11a	Band:	U-NII-7
Bandwidth	20MHz	Channel	153
IMEI:	--	Engineer:	Ou shuyan
Remark:			

Test Graph



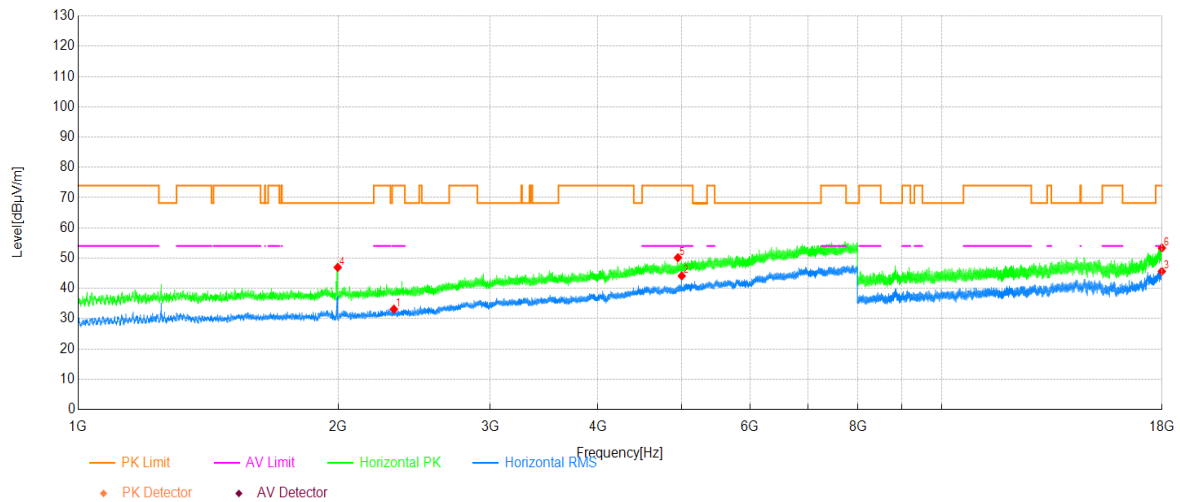
Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	2239.00	32.60	2.00	34.60	54.00	19.40	Vertical	PASS
2	5000.50	35.08	13.22	48.30	54.00	5.70	Vertical	PASS
3	17856.66	32.44	13.90	46.34	54.00	7.66	Vertical	PASS
4	1995.05	51.17	1.25	52.42	68.20	15.78	Vertical	PASS
5	5000.15	38.25	13.22	51.47	74.00	22.53	Vertical	PASS
6	17857.33	39.82	13.89	53.71	74.00	20.29	Vertical	PASS

Project Information

Mode:	SISO 802.11a	Band:	U-NII-7
Bandwidth	20MHz	Channel	181
IMEI:	--	Engineer:	Ou shuyan
Remark:			

Test Graph



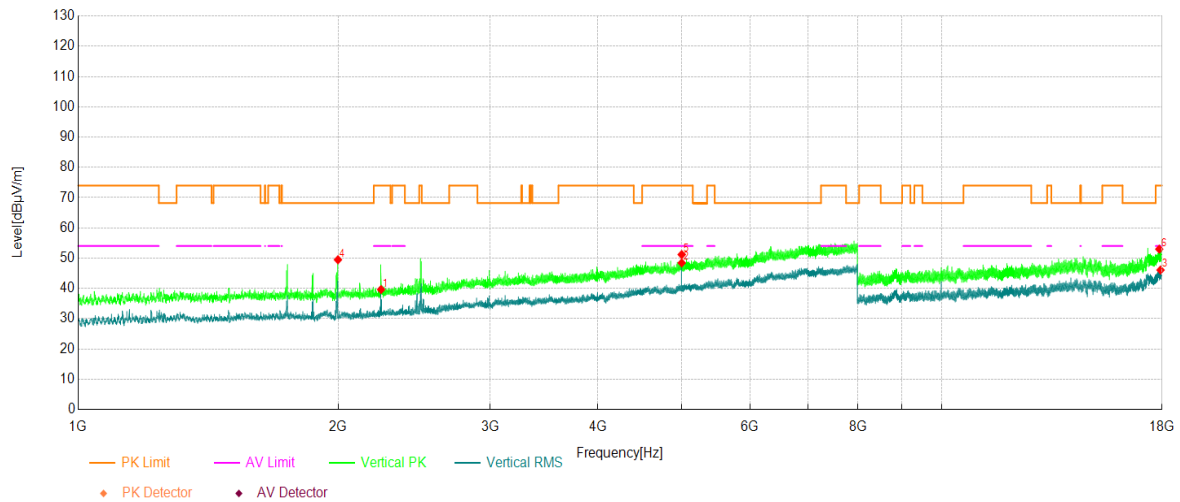
Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	2320.90	31.00	2.15	33.15	54.00	20.85	Horizontal	PASS
2	5000.50	30.90	13.22	44.12	54.00	9.88	Horizontal	PASS
3	17992.33	31.66	13.98	45.64	54.00	8.36	Horizontal	PASS
4	1998.20	45.74	1.21	46.95	68.20	21.25	Horizontal	PASS
5	4949.40	37.03	13.13	50.16	74.00	23.84	Horizontal	PASS
6	17994.00	39.36	14.00	53.36	74.00	20.64	Horizontal	PASS

Project Information

Mode:	SISO 802.11a	Band:	U-NII-7
Bandwidth	20MHz	Channel	181
IMEI:	--	Engineer:	Ou shuyan
Remark:			

Test Graph



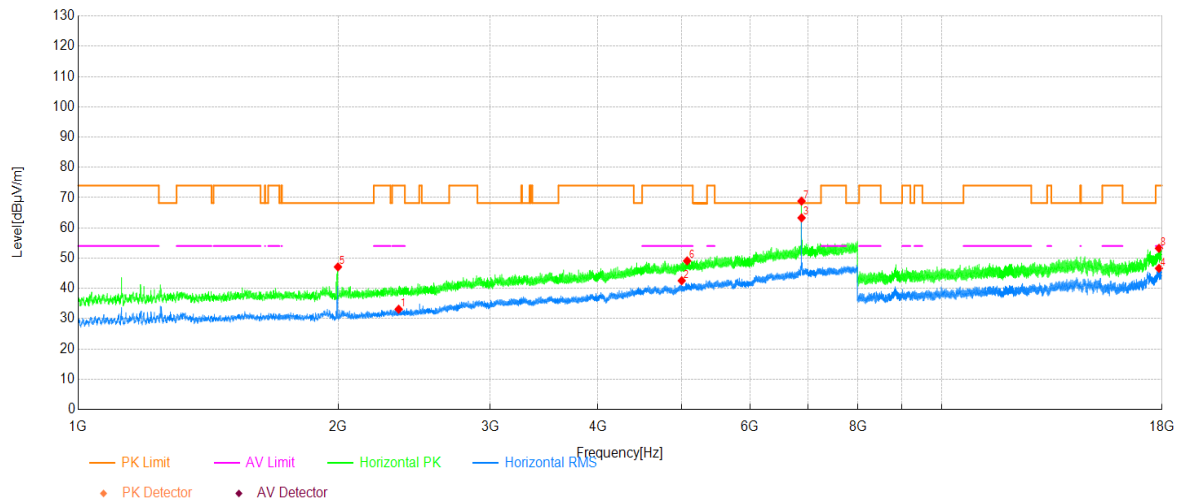
Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	2242.85	37.59	2.05	39.64	54.00	14.36	Vertical	PASS
2	5000.50	35.21	13.22	48.43	54.00	5.57	Vertical	PASS
3	17929.33	32.63	13.45	46.08	54.00	7.92	Vertical	PASS
4	1999.25	48.27	1.20	49.47	68.20	18.73	Vertical	PASS
5	5000.15	37.97	13.22	51.19	74.00	22.81	Vertical	PASS
6	17867.00	39.26	13.73	52.99	74.00	21.01	Vertical	PASS

Project Information

Mode:	SISO 802.11a	Band:	U-NII-7&8
Bandwidth	20MHz	Channel	185
IMEI:	--	Engineer:	Ou shuyan
Remark:			

Test Graph



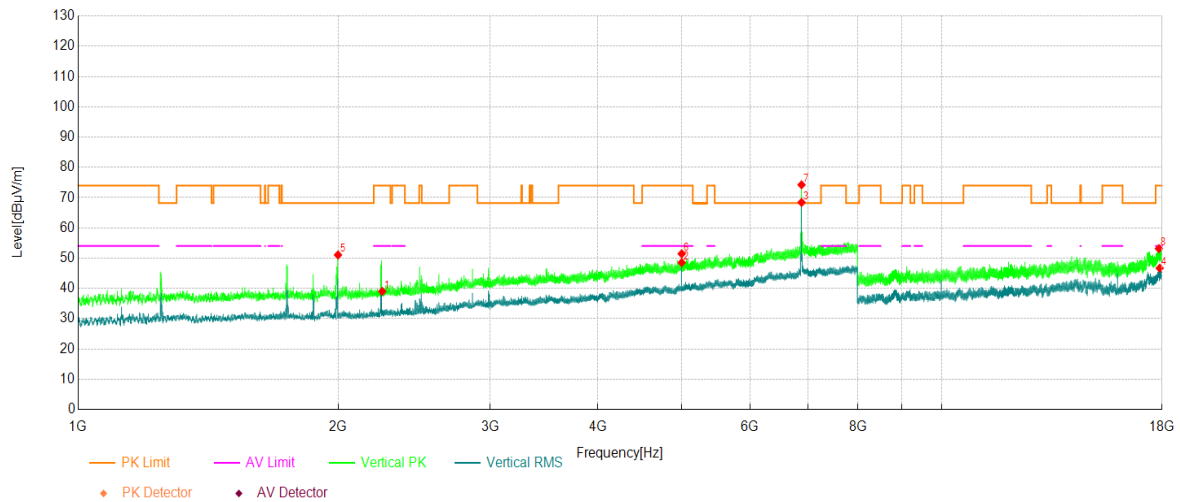
Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	2350.65	30.63	2.49	33.12	54.00	20.88	Horizontal	PASS
2	5000.50	29.34	13.22	42.56	54.00	11.44	Horizontal	PASS
3	6883.15	44.72	18.60	63.32	-	-	Horizontal	NA
4	17854.33	32.69	13.95	46.64	54.00	7.36	Horizontal	PASS
5	1999.25	45.90	1.20	47.10	68.20	21.10	Horizontal	PASS
6	5073.30	35.39	13.71	49.10	74.00	24.90	Horizontal	PASS
7	6882.45	50.26	18.60	68.86	-	-	Horizontal	NA
8	17854.00	39.30	13.95	53.25	74.00	20.75	Horizontal	PASS

Project Information

Mode:	SISO 802.11a	Band:	U-NII-7&8
Bandwidth	20MHz	Channel	185
IMEI:	--	Engineer:	Ou shuyan
Remark:			

Test Graph



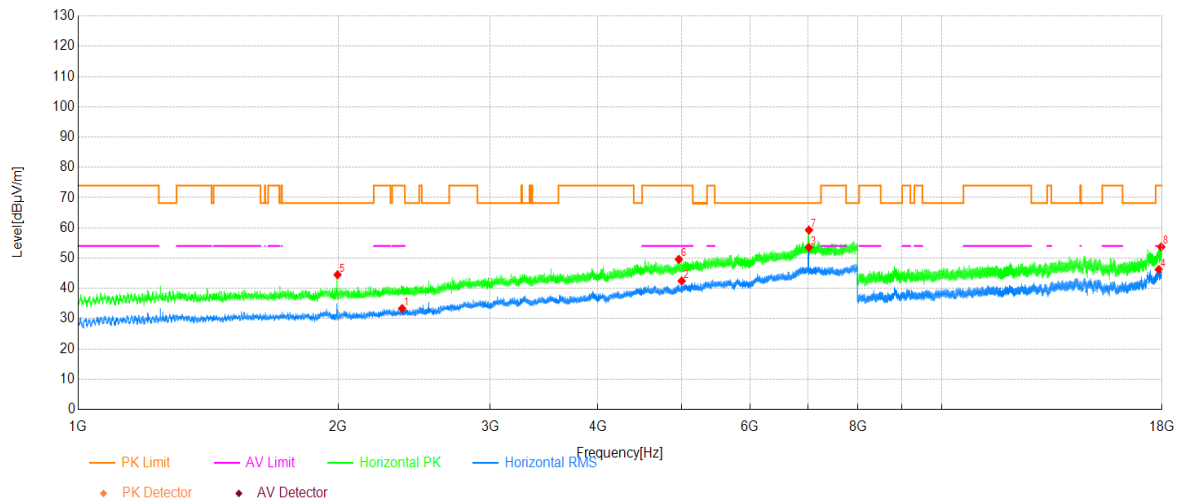
Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	2249.85	36.90	2.13	39.03	54.00	14.97	Vertical	PASS
2	5000.50	35.33	13.22	48.55	54.00	5.45	Vertical	PASS
3	6883.15	49.82	18.60	68.42	-	-	Vertical	NA
4	17888.33	33.33	13.37	46.70	54.00	7.30	Vertical	PASS
5	1999.60	49.88	1.19	51.07	68.20	17.13	Vertical	PASS
6	5000.15	38.24	13.22	51.46	74.00	22.54	Vertical	PASS
7	6882.45	55.64	18.60	74.24	-	-	Vertical	NA
8	17849.66	39.14	14.01	53.15	74.00	20.85	Vertical	PASS

Project Information

Mode:	SISO 802.11a	Band:	U-NII-8
Bandwidth	20MHz	Channel	213
IMEI:	--	Engineer:	Ou shuyan
Remark:			

Test Graph



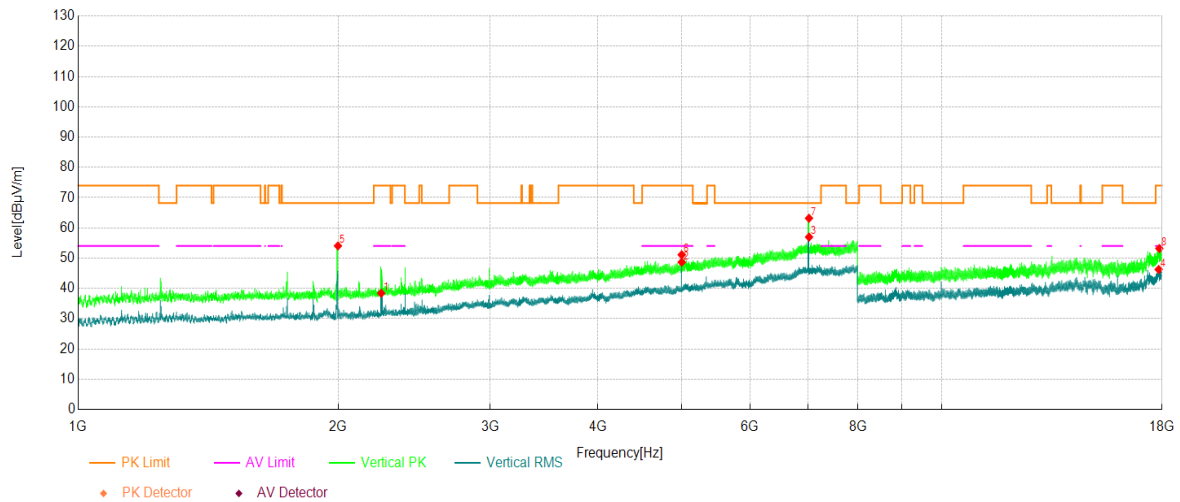
Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	2372.70	30.98	2.38	33.36	54.00	20.64	Horizontal	PASS
2	5000.50	29.46	13.01	42.47	54.00	11.53	Horizontal	PASS
3	7020.00	34.21	19.35	53.56	-	-	Horizontal	NA
4	17844.33	32.40	13.87	46.27	54.00	7.73	Horizontal	PASS
5	1997.15	43.33	1.20	44.53	68.20	23.67	Horizontal	PASS
6	4962.00	36.53	13.09	49.62	74.00	24.38	Horizontal	PASS
7	7020.35	39.91	19.35	59.26	-	-	Horizontal	NA
8	17963.00	39.97	13.75	53.72	74.00	20.28	Horizontal	PASS

Project Information

Mode:	SISO 802.11a	Band:	U-NII-8
Bandwidth	20MHz	Channel	213
IMEI:	--	Engineer:	Ou shuyan
Remark:			

Test Graph



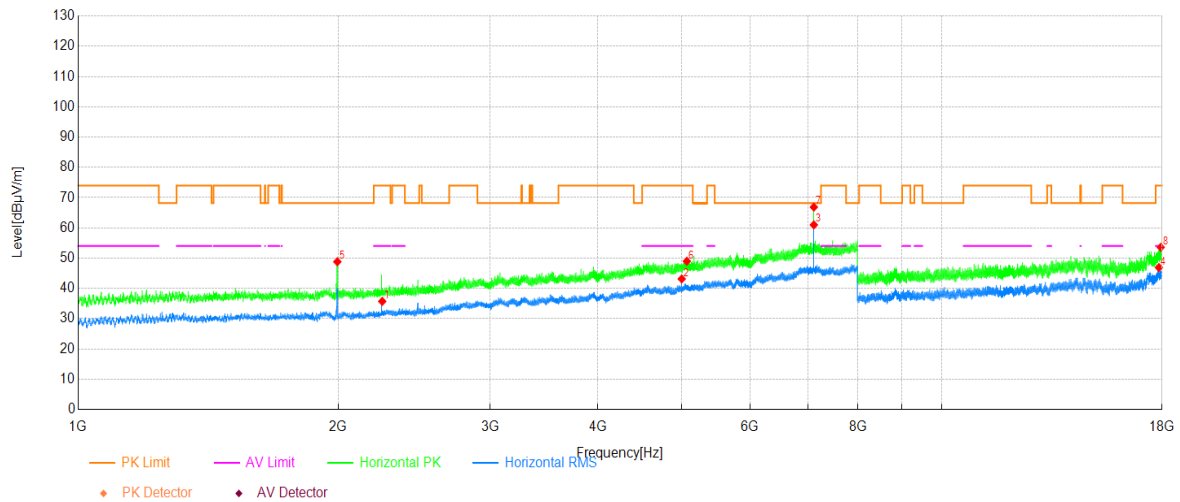
Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	2243.55	36.23	2.18	38.41	54.00	15.59	Vertical	PASS
2	5000.50	35.66	13.01	48.67	54.00	5.33	Vertical	PASS
3	7022.45	37.64	19.35	56.99	-	-	Vertical	NA
4	17839.66	32.52	13.74	46.26	54.00	7.74	Vertical	PASS
5	1999.25	52.89	1.18	54.07	68.20	14.13	Vertical	PASS
6	5000.15	38.12	13.00	51.12	74.00	22.88	Vertical	PASS
7	7020.70	43.83	19.35	63.18	-	-	Vertical	NA
8	17870.66	39.50	13.67	53.17	74.00	20.83	Vertical	PASS

Project Information

Mode:	SISO 802.11a	Band:	U-NII-8
Bandwidth	20MHz	Channel	233
IMEI:	--	Engineer:	Ou shuyan
Remark:			

Test Graph



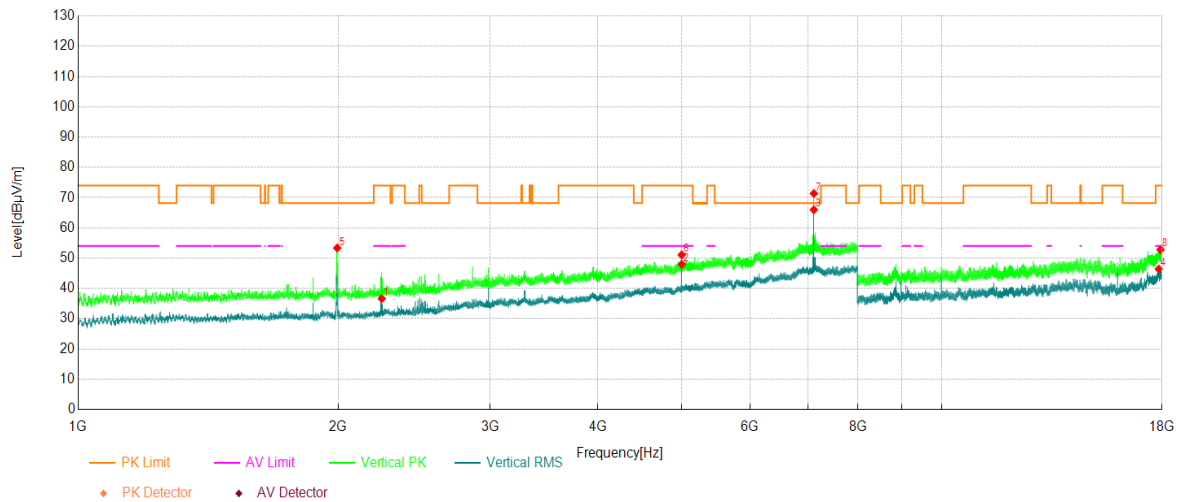
Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	2249.85	33.45	2.27	35.72	54.00	18.28	Horizontal	PASS
2	5000.50	30.13	13.01	43.14	54.00	10.86	Horizontal	PASS
3	7113.10	41.54	19.46	61.00	-	-	Horizontal	NA
4	17848.33	32.94	13.98	46.92	54.00	7.08	Horizontal	PASS
5	1996.10	47.60	1.22	48.82	68.20	19.38	Horizontal	PASS
6	5069.10	35.39	13.60	48.99	74.00	25.01	Horizontal	PASS
7	7112.75	47.40	19.46	66.86	-	-	Horizontal	NA
8	17937.66	40.06	13.53	53.59	74.00	20.41	Horizontal	PASS

Project Information

Mode:	SISO 802.11a	Band:	U-NII-8
Bandwidth	20MHz	Channel	233
IMEI:	--	Engineer:	Ou shuyan
Remark:			

Test Graph



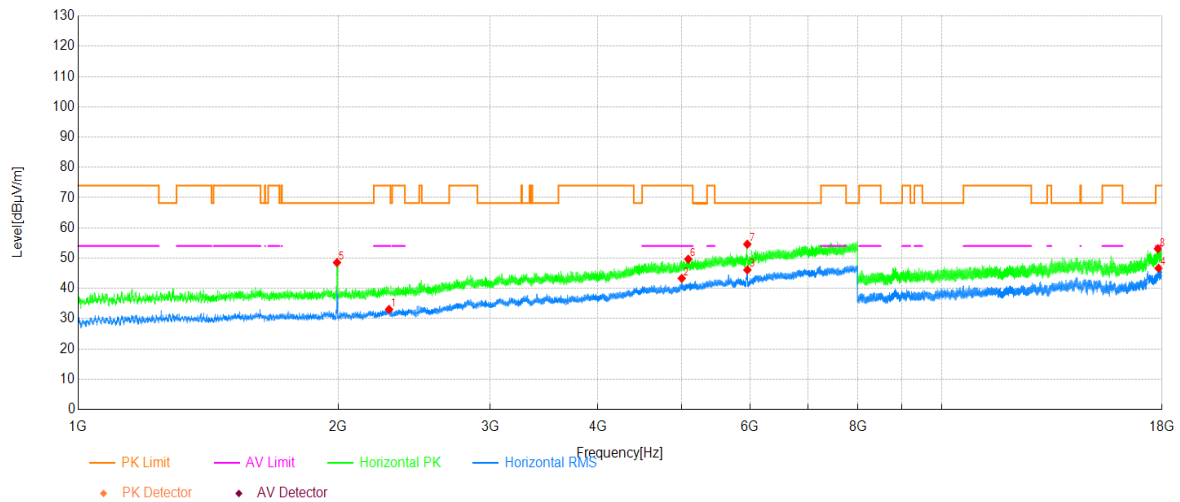
Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	2247.05	34.40	2.23	36.63	54.00	17.37	Vertical	PASS
2	5000.50	34.95	13.01	47.96	54.00	6.04	Vertical	PASS
3	7112.75	46.52	19.46	65.98	-	-	Vertical	NA
4	17843.66	32.55	13.85	46.40	54.00	7.60	Vertical	PASS
5	1995.40	52.13	1.23	53.36	68.20	14.84	Vertical	PASS
6	5000.15	38.08	13.00	51.08	74.00	22.92	Vertical	PASS
7	7113.10	51.90	19.46	71.36	-	-	Vertical	NA
8	17926.33	39.37	13.43	52.80	74.00	21.20	Vertical	PASS

Project Information

Mode:	MIMO 802.11a	Band:	U-NII-5
Bandwidth	20MHz	Channel	1
IMEI:	--	Engineer:	Ou shuyan
Remark:			

Test Graph



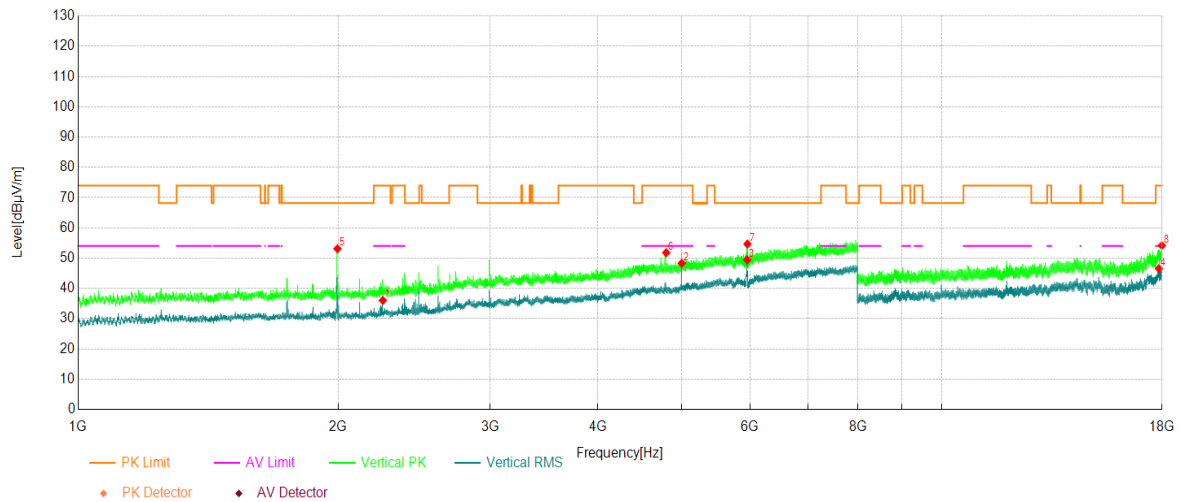
Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	2291.15	30.93	2.14	33.07	54.00	20.93	Horizontal	PASS
2	5000.50	29.81	13.52	43.33	54.00	10.67	Horizontal	PASS
3	5957.40	30.10	16.01	46.11	-	-	Horizontal	NA
4	17833.66	33.10	13.58	46.68	54.00	7.32	Horizontal	PASS
5	1994.35	47.31	1.23	48.54	68.20	19.66	Horizontal	PASS
6	5088.00	35.51	14.15	49.66	74.00	24.34	Horizontal	PASS
7	5956.35	38.61	16.00	54.61	-	-	Horizontal	NA
8	17805.33	40.28	12.80	53.08	74.00	20.92	Horizontal	PASS

Project Information

Mode:	MIMO 802.11a	Band:	U-NII-5
Bandwidth	20MHz	Channel	1
IMEI:	--	Engineer:	Ou shuyan
Remark:			

Test Graph



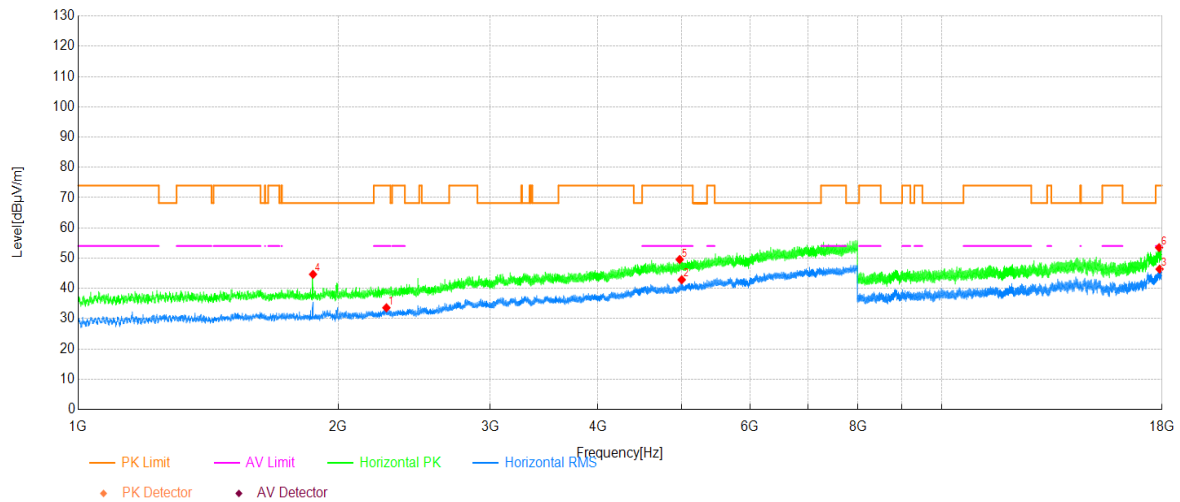
Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	2253.35	33.82	2.22	36.04	54.00	17.96	Vertical	PASS
2	5000.50	34.78	13.52	48.30	54.00	5.70	Vertical	PASS
3	5953.90	33.41	16.01	49.42	-	-	Vertical	NA
4	17850.66	32.56	14.01	46.57	54.00	7.43	Vertical	PASS
5	1996.80	51.90	1.20	53.10	68.20	15.10	Vertical	PASS
6	4797.85	38.62	13.19	51.81	74.00	22.19	Vertical	PASS
7	5958.45	38.68	16.01	54.69	-	-	Vertical	NA
8	17991.67	40.18	13.98	54.16	74.00	19.84	Vertical	PASS

Project Information

Mode:	MIMO 802.11a	Band:	U-NII-5
Bandwidth	20MHz	Channel	45
IMEI:	--	Engineer:	Ou shuyan
Remark:	Power 4		

Test Graph



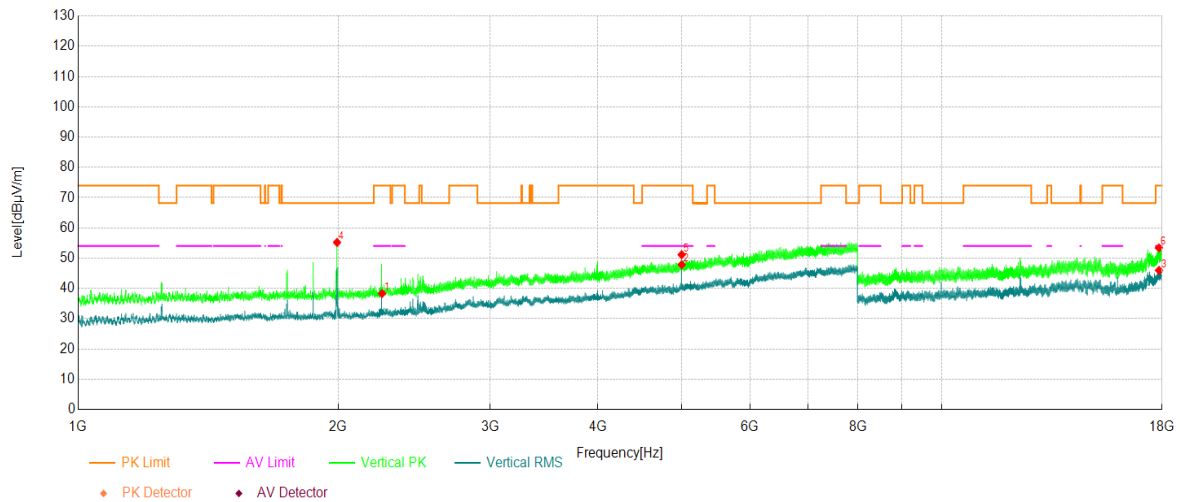
Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	2275.05	31.43	2.17	33.60	54.00	20.40	Horizontal	PASS
2	5000.50	29.35	13.52	42.87	54.00	11.13	Horizontal	PASS
3	17882.66	32.91	13.47	46.38	54.00	7.62	Horizontal	PASS
4	1870.80	43.53	1.12	44.65	68.20	23.55	Horizontal	PASS
5	4972.85	36.20	13.35	49.55	74.00	24.45	Horizontal	PASS
6	17860.00	39.62	13.85	53.47	74.00	20.53	Horizontal	PASS

Project Information

Mode:	MIMO 802.11a	Band:	U-NII-5
Bandwidth	20MHz	Channel	45
IMEI:	--	Engineer:	Ou shuyan
Remark:	Power 4		

Test Graph



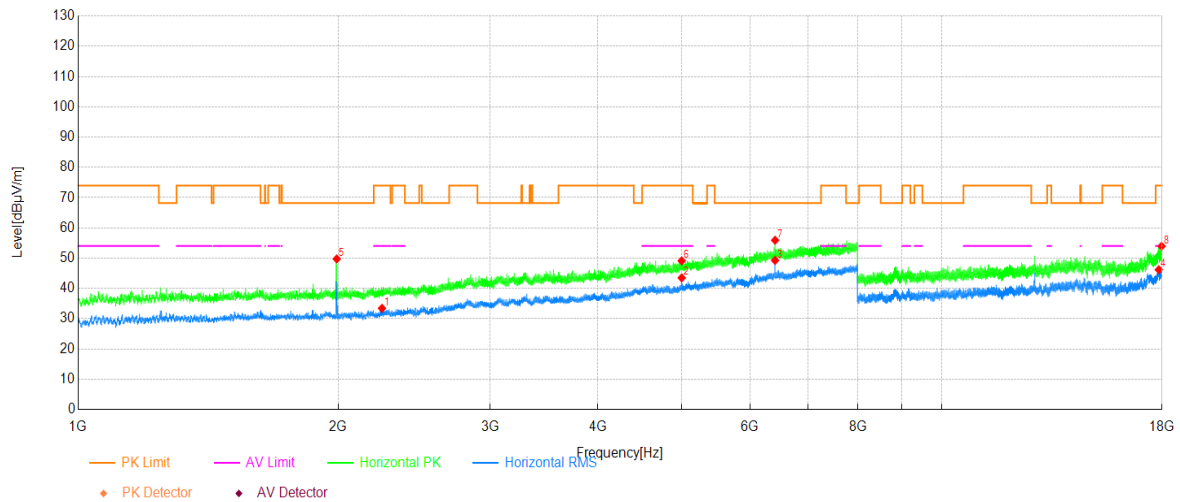
Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	2248.80	36.10	2.21	38.31	54.00	15.69	Vertical	PASS
2	5000.50	34.34	13.52	47.86	54.00	6.14	Vertical	PASS
3	17856.33	32.06	13.91	45.97	54.00	8.03	Vertical	PASS
4	1994.35	53.98	1.23	55.21	68.20	12.99	Vertical	PASS
5	5000.15	37.62	13.52	51.14	74.00	22.86	Vertical	PASS
6	17848.99	39.39	13.99	53.38	74.00	20.62	Vertical	PASS

Project Information

Mode:	MIMO 802.11a	Band:	U-NII-5
Bandwidth	20MHz	Channel	93
IMEI:	--	Engineer:	Ou shuyan
Remark:	Power 4		

Test Graph



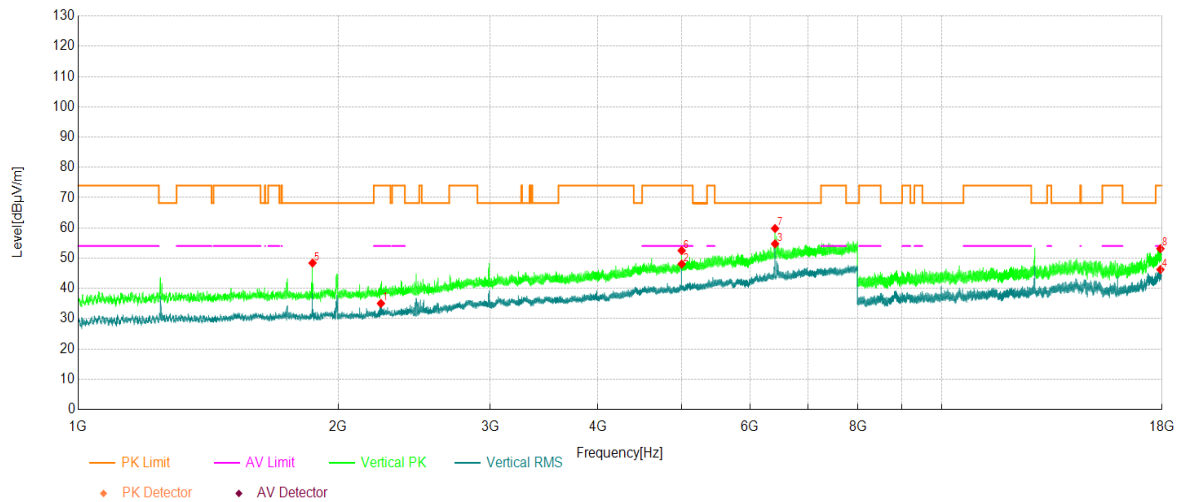
Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	2248.45	31.22	2.21	33.43	54.00	20.57	Horizontal	PASS
2	5000.50	29.97	13.52	43.49	54.00	10.51	Horizontal	PASS
3	6413.45	31.54	17.73	49.27	-	-	Horizontal	NA
4	17844.66	32.31	13.88	46.19	54.00	7.81	Horizontal	PASS
5	1992.95	48.50	1.24	49.74	68.20	18.46	Horizontal	PASS
6	5000.15	35.60	13.52	49.12	74.00	24.88	Horizontal	PASS
7	6413.80	38.19	17.73	55.92	-	-	Horizontal	NA
8	17977.67	40.08	13.87	53.95	74.00	20.05	Horizontal	PASS

Project Information

Mode:	MIMO 802.11a	Band:	U-NII-5
Bandwidth	20MHz	Channel	93
IMEI:	--	Engineer:	Ou shuyan
Remark:	Power 4		

Test Graph



Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	2241.80	32.88	2.15	35.03	54.00	18.97	Vertical	PASS
2	5000.50	34.55	13.52	48.07	54.00	5.93	Vertical	PASS
3	6413.80	37.01	17.73	54.74	-	-	Vertical	NA
4	17923.33	32.86	13.39	46.25	54.00	7.75	Vertical	PASS
5	1868.35	47.29	1.10	48.39	68.20	19.81	Vertical	PASS
6	5000.15	38.98	13.52	52.50	74.00	21.50	Vertical	PASS
7	6413.45	42.08	17.73	59.81	-	-	Vertical	NA
8	17923.00	39.74	13.39	53.13	74.00	20.87	Vertical	PASS