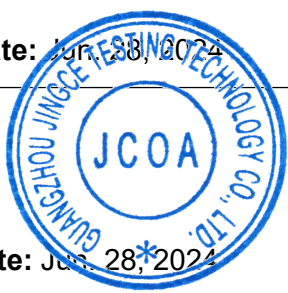


FCC AND ISCED CERTIFICATION TEST REPORT

Applicant:	Guangzhou Shikun Electronics Co., Ltd
Address:	NO.6 Liankun Road, Huangpu District, Guangzhou, China
Manufacturer:	Guangzhou Shikun Electronics Co., Ltd
Address:	NO.6 Liankun Road, Huangpu District, Guangzhou, China
Product Description:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1
Brand Name:	NA
Tested Model:	SKI.WB663U.2
FCC ID:	2AR82-SKIWB663U21
IC:	24728-SKIWB663U21
Report No.:	JCF240621101-0010
Received Date:	Jun. 22, 2024
Tested Date:	Jun. 22, 2024 ~ Jun. 28, 2024
Issued Date:	Jun. 28, 2024
Test Standards:	FCC Rules and Regulations Part 15 Subpart E, RSS-247 Issue 3 August 2023
Test Procedure:	ANSI C63.10:2013, 789033 D02 General U-NII Test Procedures New Rules v02r01, 662911 D01 Multiple Transmitter Output v02r01
Test Result:	Pass

Prepared By:  <u>Kennys Zhang/Engineer</u>	Date: Jun. 28, 2024 
Reviewed By:  <u>Roger Li/Engineer</u>	Date: Jun. 28, 2024
Approved By:  <u>Talent Zhang/Engineer</u>	Date: Jun. 28, 2024

Note: The test results in this report apply exclusively to the tested model / sample. Without written approval of Guangzhou Jingce Testing Technology Co., Ltd. the test report shall not be reproduced except in full.

Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jun. 28, 2024	Original Report	/

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1. Test Report Declare

Applicant:	Guangzhou Shikun Electronics Co., Ltd
Address:	NO.6 Liankun Road, Huangpu District, Guangzhou, China
Manufacturer:	Guangzhou Shikun Electronics Co., Ltd
Address:	NO.6 Liankun Road, Huangpu District, Guangzhou, China
Product Name:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1
Brand Name:	NA
Model Name:	SKI.WB663U.2
Difference Description:	NA

We Declare:

The equipment described above is tested by Guangzhou Jingce Testing Technology Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Guangzhou Jingce Testing Technology Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests except as provided information by clients.

2. Summary of test results

The EUT have been tested according to the applicable standards as referenced below.			
Clause	Description of Test Item	Standard	Verdict
1	6/26dB Bandwidth	FCC 15.407 (a)&(e) RSS-247 Clause 6.2	NA
2	99% Occupied Bandwidth	RSS-Gen Clause 6.6	NA
3	Maximum Conducted Output Power	FCC 15.407 (a) RSS-247 Clause 6.2	Pass
4	Power Spectral Density	FCC 15.407 (a) RSS-247 Clause 6.2	NA
5	Frequency Stability Measurement	FCC 15.407 (g)	NA
6	Radiated Band edge and Spurious Emission	FCC 15.407 (b) FCC 15.209 FCC 15.205 RSS-247 Clause 6.2 RSS-GEN Clause 8.9	Pass
7	Power Line Conducted Emission	FCC 15.207 RSS-GEN Clause 8.8	NA
8	Antenna requirement	FCC 15.203 RSS-GEN Clause 8.3	Pass
9	Dynamic Frequency Selection	FCC 15.407 (h) RSS-247 Clause 6.3	NA

Note: The EUT has only added antenna to the original report. So above test items clause 3&6&8 need to be retest, the other test items reference report "4790010773.1-4".

3. Test Laboratory

Guangzhou Jingce Testing Technology Co., Ltd.

Add.: No.10, Hefeng No.1 street, Huangpu District, Guangzhou, Guangdong, People's Republic of China

Association for Laboratory Accreditation(A2LA). Certificate Number: 6594.03

FCC Designation Number: CN1381. Test Firm Registration Number: 486550

IC Test Firm Registration Number: 31808

Conformity Assessment Body identifier: CN0173

4. Equipment Under Test

4.1. Description of EUT

EUT Name:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1
Model Number:	SKI.WB663U.2
EUT Function Description:	Please refer to user manual of this device
Power Supply:	DC 3.3V+/-0.3
Hardware Version:	NA
Software Version:	NA
Radio Specification:	IEEE 802.11a/n/ac
Operation Frequency:	IEEE 802.11a: 5180MHz—5825MHz IEEE 802.11n HT20: 5180MHz—5825MHz IEEE 802.11n HT40: 5190MHz—5795MHz IEEE 802.11ac VHT20: 5180MHz—5825MHz IEEE 802.11ac VHT40: 5190MHz—5795MHz IEEE 802.11ac VHT80: 5210MHz—5775MHz
Modulation:	IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20, HT40: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac (VHT20/40/80): OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)
Data Rate:	IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54Mbps IEEE 802.11n HT20: 14.4, 28.9, 43.3, 57.8, 86.7, 115.6, 130, 144.4 Mbps IEEE 802.11n HT40: 30, 60, 90, 120, 180, 240, 270, 300 Mbps IEEE 802.11ac VHT20: 14.4, 28.9, 43.3, 57.8, 86.7, 115.6, 130, 144.4, 173.3 Mbps IEEE 802.11ac VHT40: 30, 60, 90, 120, 180, 240, 270, 300, 360, 400 Mbps IEEE 802.11ac VHT80: 65, 130, 195, 260, 390, 520, 585, 650, 780, 866.7 Mbps
Antenna Type:	PCB Antenna1, MAX. Gain: 4.1 dBi PCB Antenna2, MAX. Gain: 3.25 dBi

Note 1: EUT is the ab. of equipment under test.

Note 2: The antenna gain is declared by the customer and the laboratory is not responsible for the accuracy of the antenna gain.

4.2. Channel List

UNII-1 (For Bandwidth = 20 MHz)		UNII-1 (For Bandwidth = 40 MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	38	5190
40	5200	46	5230
44	5220	/	/
48	5240	/	/
UNII-1 (For Bandwidth = 80 MHz)			
Channel		Frequency (MHz)	
42		5210	
UNII-2A (For Bandwidth = 20 MHz)		UNII-2A (For Bandwidth = 40 MHz)	

Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	54	5270
56	5280	62	5310
60	5300	/	/
64	5320	/	/
UNII-2A (For Bandwidth = 80 MHz)			
Channel		Frequency (MHz)	
58		5290	

UNII-2C (For Bandwidth = 20 MHz)		UNII-2C (For Bandwidth = 40 MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	102	5510
104	5520	110	5550
108	5540	118	5590
112	5560	126	5630
116	5580	134	5670
120	5600	142	5710
124	5620	/	/
128	5640	/	/
132	5660	/	/
136	5680	/	/
140	5700	/	/
144	5720	/	/
UNII-2C (For Bandwidth = 80 MHz)			
Channel		Frequency (MHz)	
106		5530	
122		5610	
138		5690	

UNII-3 (For Bandwidth = 20 MHz)		UNII-3 (For Bandwidth = 40 MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	151	5755
153	5765	159	5795
157	5785	/	/
161	5805	/	/
165	5825	/	/
UNII-3 (For Bandwidth = 80 MHz)			

Channel	Frequency (MHz)
155	5775

4.3. Test Channel Configuration

Mode	Data rate (Mbps) (see Note)	Test Channel and Frequency
802.11a TX Mode	6	CH36, 5180
	6	CH44, 5220
	6	CH48, 5240
	6	CH52, 5260
	6	CH60, 5300
	6	CH64, 5320
	6	CH100, 5500
	6	CH116, 5580
	6	CH140, 5700
	6	CH144, 5720
	6	CH149, 5745
	6	CH157, 5785
	6	CH165, 5825
802.11n HT20 TX Mode	MCS 8	CH36, 5180
	MCS 8	CH44, 5220
	MCS 8	CH48, 5240
	MCS 8	CH52, 5260
	MCS 8	CH60, 5300
	MCS 8	CH64, 5320
	MCS 8	CH100, 5500
	MCS 8	CH116, 5580
	MCS 8	CH140, 5700
	MCS 8	CH144, 5720
	MCS 8	CH149, 5745
	MCS 8	CH157, 5785
	MCS 8	CH165, 5825
802.11n HT40 TX Mode	MCS 8	CH38, 5190
	MCS 8	CH46, 5230
	MCS 8	CH54, 5270
	MCS 8	CH62, 5310
	MCS 8	CH102, 5510
	MCS 8	CH110, 5550
	MCS 8	CH134, 5670
	MCS 8	CH142, 5710
	MCS 8	CH151, 5755

	MCS 8	CH159, 5795
802.11ac VHT20 TX Mode	MCS 0	CH36, 5180
	MCS 0	CH44, 5220
	MCS 0	CH48, 5240
	MCS 0	CH52, 5260
	MCS 0	CH60, 5300
	MCS 0	CH64, 5320
	MCS 0	CH100, 5500
	MCS 0	CH116, 5580
	MCS 0	CH140, 5700
	MCS 0	CH144, 5720
	MCS 0	CH149, 5745
	MCS 0	CH157, 5785
	MCS 0	CH165, 5825
802.11ac VHT40 TX Mode	MCS 0	CH38, 5190
	MCS 0	CH46, 5230
	MCS 0	CH54, 5270
	MCS 0	CH62, 5310
	MCS 0	CH102, 5510
	MCS 0	CH110, 5550
	MCS 0	CH134, 5670
	MCS 0	CH142, 5710
	MCS 0	CH151, 5755
	MCS 0	CH159, 5795
802.11ac VHT80 TX Mode	MCS 0	CH42, 5210
	MCS 0	CH58, 5290
	MCS 0	CH106, 5530
	MCS 0	CH122, 5610
	MCS 0	CH138 5690
	MCS 0	CH155, 5775
Note: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.		

4.4. Test Environment Conditions

During the measurement the environmental conditions were within the listed ranges:

	Normal Conditions	Extreme Conditions
Temperature range	21-25 °C	N/A
Humidity range	40-75%	N/A
Pressure range	86-106 kPa	N/A
Power supply	NV: DC 3.3V	N/A

Note: The Extreme temperature range and extreme voltages are declared by the manufacturer.

4.5. The Worse Case Power Setting Parameter

The Worse Case Power Setting Parameter			
Test Software	QA Tool		
Mode	Channel	Soft set value	
		ANT0	ANT1
802.11a	36	0E	10
	44	0E	10
	48	0E	10
	52	0E	10
	60	0E	10
	64	0E	10
	100	0E	10
	116	0E	14
	140	0E	1A
	149	0E	18
	157	0E	18
	165	0E	18
802.11n HT20	36	0C	0C
	44	0C	0C
	48	0C	0C
	52	0D	0D
	60	0D	0D
	64	0D	0D
	100	0F	0F
	116	0F	0F
	140	14	14
	149	0F	0F
	157	0F	0F
	165	0F	0F
802.11n HT40	38	10	10
	46	10	10
	54	10	10
	62	10	10
	102	12	12
	110	12	12
	134	12	12
	151	12	12
	159	12	12
802.11ac VHT20	36	0E	0E
	44	0E	0E
	48	0E	0E

	52	0F	0F
	60	0F	0F
	64	0F	0F
	100	11	11
	116	11	11
	140	11	11
	149	11	11
	157	11	11
	165	0F	0F
802.11ac VHT40	38	10	10
	46	10	10
	54	10	10
	62	10	10
	102	10	10
	110	10	10
	134	10	10
	151	10	10
	159	10	10
802.11ac VHT80	42	10	10
	58	10	10
	106	10	10
	122	10	10
	155	10	10

4.6. Description of Available Antennas

Test Mode	Transmit and Receive Mode	Description
802.11a	☒ 2TX, 2RX	ANT 1 and ANT2 can be used as transmitting/receiving antenna.
802.11n HT20	☒ 2TX, 2RX	ANT 1 and ANT2 can be used as transmitting/receiving antenna.
802.11n HT40	☒ 2TX, 2RX	ANT 1 and ANT2 can be used as transmitting/receiving antenna.
802.11ac VHT20	☒ 2TX, 2RX	ANT 1 and ANT2 can be used as transmitting/receiving antenna.
802.11ac VHT40	☒ 2TX, 2RX	ANT 1 and ANT2 can be used as transmitting/receiving antenna.
802.11ac VHT80	☒ 2TX, 2RX	ANT 1 and ANT2 can be used as transmitting/receiving antenna.

5. Description of Test Setup

5.1. Accessory

Description of Accessories	Manufacturer	Model Number	Description	Remark
/	/	/	/	/

5.2. Support Equipment

Equipment	Brand Name	Model Name	P/N
PC	Lenovo	T480	/

5.3. Test Setup

The EUT can work in Fixed Frequency mode.

5.4. Setup Diagram for Tests



6. Measurement uncertainty

Test Item	Uncertainty
AC Power Conduction emission	1.37 dB
All Radiated emissions	5.4dB
Conducted emissions	3.09 dB
Occupied Channel Bandwidth	1.1%
Conducted Output power	0.82dB
Power Spectral Density	0.82dB

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

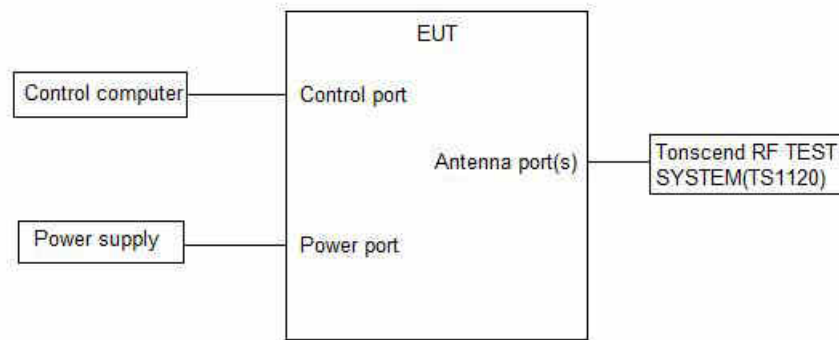
7. Measuring Instrument and Software Used

TS Test System						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
☒	Spectrum Analyzer	Keysight	N9030B	MY56320512	Sep. 12, 2023	Sep. 11, 2024
☒	Vector Signal Generator	Keysight	N5182B	MY57300334	Sep. 12, 2023	Sep. 11, 2024
☒	Signal Generator	Keysight	N5171B	MY57280639	Sep. 12, 2023	Sep. 11, 2024
☒	DC POWER	Keysight	E342A	MY59020356	Jul. 14, 2023	Jul. 13, 2024
☒	Incubator thermometer	GWS	EL-02JA	21107288	Sep. 12, 2023	Sep. 11, 2024
☒	Control unit(Power sensor)	Tonscend	JS0806-2	/	Sep. 12, 2023	Sep. 11, 2024
☒	Wideband radio communication tester	R&S	CMW500	163478	Jul. 11, 2023	Jul. 10, 2024
☒	Spectrum Analyzer	Keysight	N9020B	MY60112206	Sep. 12, 2023	Sep. 12, 2024
☒	Control unit(Power sensor)	Tonscend	JS0806-2	21H8060465	Sep. 12, 2023	Sep. 12, 2024
Software						
Used	Description	Manufacturer	Name		Version	
☒	Test software	Tonscend	JS1120-3		V3.3.10	
RSE Test System						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
☒	EMI Receiver	R&S	ESW	101685	Jul. 12, 2023	Jul. 11, 2024
☒	Bilog Antenna	Schwarzbeck	VULB 9163	01361	Aug. 16, 2023	Aug. 15, 2024
☒	Horn Antenna 1	Schwarzbeck	BBHA 9120 D	02411	May. 25, 2023	May. 24, 2024
☒	Horn Antenna 2	ETS	BBHA 9170	1090	Sep. 04, 2023	Sep. 03, 2024
☒	loop-antenna	Schwarzbeck	FMZB 1513-60	00030	Jan. 14, 2024	Jan. 13, 2025
☒	Signal Pre-Amplifier	Tonscend	TAP01018050	AP21C806122	Jul. 10, 2023	Jul. 09, 2024
☒	Signal Pre-Amplifier	Tonscend	TAP9K3G32	AP20K806104	Jul. 10, 2023	Jul. 09, 2024
☒	Signal Pre-Amplifier	ETS	3116C-PA	00217677	Aug. 24, 2023	Aug. 23, 2024
☒	3m Fully-anechoic Chamber	ETS	RFD-100	/	Apr. 24, 2021	Apr. 23, 2024
Software						
Used	Description	Manufacturer	Name		Version	
☒	Test software	Tonscend	TS+		V3.0.0.4	
Conducted Emission Test For AC Power Port						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
☒	LISN	R&S	ENV216	102154	Jul. 10, 2023	Jul. 09, 2024
☒	EMI Receiver	R&S	ESR3	102509	Jul. 12, 2023	Jul. 11, 2024
Software						

Used	Description	Manufacturer	Name		Version	
☒	Test software	EZ	EZ-EMC		EMEC-3A1	
Other Instrument						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
☒	Temperature & Humidity	Temperature	HTC-1	/	Nov. 02, 2023	Nov. 01, 2024

8. Maximum Output Power

8.1. Block Diagram of Test Setup



8.2. Limits

FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
Conducted Output Power	☐ Outdoor Access Point: 1 W (30 dBm)	5150-5250
	☐ Indoor Access Point: 1 W (30 dBm)	
	☐ Fixed Point-To-Point Access Points: 1 W (30 dBm)	
	☒ Client Devices: 250 mW (24 dBm)	
	Shall not exceed the lesser of 250 mW (24dBm) or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz.	5250-5350 5470-5725
	Shall not exceed 1 Watt (30 dBm).	5725-5850

ISED RSS-247 ISSUE 2		
Test Item	Limit	Frequency Range (MHz)
Conducted Output Power or e.i.r.p.	The maximum e.i.r.p. shall not exceed 200 mW (23 dBm) or 10 + 10 log10B, dBm, whichever power is less. B is the 99 % emission bandwidth in megahertz.	5150-5250
	a. The maximum conducted output power shall not exceed 250 mW (24 dBm) or 11 + 10 log10B dBm, whichever is less.	5250-5350
	b. The maximum e.i.r.p. shall not exceed 1.0 W (30 dBm) or 17 + 10 log10B dBm, whichever is less. B is the 99 % emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.	5250-5350 5470-5600 5650-5725
	Shall not exceed 1 Watt (30 dBm). The e.i.r.p. shall not exceed 4 W	5725-5850

Note: The above limits are based upon the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

8.3. Test Procedure

- (1) Connect each EUT's antenna output to power meter by RF cable and attenuator
- (2) Add each antenna port's results to get the total output power of EUT.

8.4. Test Result

Test Mode	Ant.	Freq. (MHz)	Channel Power (dBm)	DC Factor (dBm)	Result (dBm)	Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Verdict
11A	Ant1	5180	10.48	0.15	10.63	≤23.98	14.73	≤22.27	PASS
	Ant2	5180	10.22	0.12	10.34	≤23.98	13.59	≤22.22	PASS
	Ant1	5200	10.36	0.12	10.48	≤23.98	14.58	≤22.23	PASS
	Ant2	5200	9.95	0.12	10.07	≤23.98	13.32	≤22.25	PASS
	Ant1	5240	10.00	0.15	10.15	≤23.98	14.25	≤22.27	PASS
	Ant2	5240	9.75	0.15	9.90	≤23.98	13.15	≤22.26	PASS
	Ant1	5260	10.31	0.15	10.46	≤23.83	14.56	≤26.99	PASS
	Ant2	5260	9.87	0.15	10.02	≤23.82	13.27	≤26.99	PASS
	Ant1	5280	10.22	0.12	10.34	≤23.88	14.44	≤26.99	PASS
	Ant2	5280	9.97	0.12	10.09	≤23.72	13.34	≤26.99	PASS
	Ant1	5320	10.03	0.15	10.18	≤23.77	14.28	≤26.99	PASS
	Ant2	5320	9.84	0.12	9.96	≤23.78	13.21	≤26.99	PASS
	Ant1	5500	9.14	0.12	9.26	≤23.85	13.36	≤26.99	PASS
	Ant2	5500	9.66	0.15	9.81	≤23.91	13.06	≤26.99	PASS
	Ant1	5580	9.12	0.12	9.24	≤23.85	13.34	≤26.99	PASS
	Ant2	5580	9.99	0.15	10.14	≤23.87	13.39	≤26.99	PASS
	Ant1	5700	8.57	0.12	8.69	≤23.81	12.79	≤26.99	PASS
	Ant2	5700	10.84	0.15	10.99	≤23.85	14.24	≤26.99	PASS
	Ant1	5720_UNII-2C	8.62	0.15	8.77	≤22.66	12.87	≤26.99	PASS
	Ant2	5720_UNII-2C	8.80	0.15	8.95	≤22.68	12.20	≤26.99	PASS
	Ant1	5720_UNII-3	1.06	0.15	1.21	≤30.00	5.31	---	PASS
	Ant2	5720_UNII-3	1.17	0.15	1.32	≤30.00	4.57	---	PASS
	Ant1	5745	9.15	0.12	9.27	≤30.00	13.37	---	PASS
	Ant2	5745	9.50	0.15	9.65	≤30.00	12.90	---	PASS
	Ant1	5785	9.24	0.15	9.39	≤30.00	13.49	---	PASS
	Ant2	5785	9.05	0.12	9.17	≤30.00	12.42	---	PASS
	Ant1	5825	9.75	0.12	9.87	≤30.00	13.97	---	PASS
	Ant2	5825	8.69	0.15	8.84	≤30.00	12.09	---	PASS
11N20MIMO	Ant1	5180	8.17	0.31	8.48	≤23.98	12.58	≤22.49	PASS
	Ant2	5180	7.21	0.31	7.52	≤23.98	10.77	≤22.48	PASS
	total	5180	---	---	11.04	≤23.98	15.14	≤22.48	PASS
	Ant1	5200	8.18	0.31	8.49	≤23.98	12.59	≤22.49	PASS
	Ant2	5200	7.07	0.25	7.32	≤23.98	10.57	≤22.46	PASS
	total	5200	---	---	10.95	≤23.98	15.05	≤22.46	PASS
	Ant1	5240	7.99	0.31	8.30	≤23.98	12.40	≤22.49	PASS
	Ant2	5240	6.95	0.31	7.26	≤23.98	10.51	≤22.47	PASS
	total	5240	---	---	10.82	≤23.98	14.92	≤22.47	PASS
	Ant1	5260	9.00	0.31	9.31	≤23.85	13.41	≤26.99	PASS
	Ant2	5260	8.10	0.25	8.35	≤23.98	11.60	≤26.99	PASS
	total	5260	---	---	11.87	≤23.98	15.97	≤26.99	PASS
	Ant1	5280	9.13	0.25	9.38	≤23.92	13.48	≤26.99	PASS
	Ant2	5280	8.42	0.31	8.73	≤23.89	11.98	≤26.99	PASS
	total	5280	---	---	12.08	≤23.98	16.18	≤26.99	PASS
	Ant1	5320	8.97	0.31	9.28	≤23.90	13.38	≤26.99	PASS
	Ant2	5320	8.33	0.25	8.58	≤23.84	11.83	≤26.99	PASS
	total	5320	---	---	11.95	≤23.98	16.05	≤26.99	PASS
	Ant1	5500	9.06	0.31	9.37	≤23.95	13.47	≤26.99	PASS
	Ant2	5500	8.90	0.31	9.21	≤23.95	12.46	≤26.99	PASS
	total	5500	---	---	12.30	≤23.98	16.40	≤26.99	PASS
	Ant1	5580	9.02	0.25	9.27	≤23.87	13.37	≤26.99	PASS
	Ant2	5580	7.88	0.31	8.19	≤23.98	11.44	≤26.99	PASS
	total	5580	---	---	11.77	≤23.98	15.87	≤26.99	PASS
	Ant1	5700	10.34	0.31	10.65	≤23.92	14.75	≤26.99	PASS
	Ant2	5700	7.51	0.25	7.76	≤23.81	11.01	≤26.99	PASS
	total	5700	---	---	12.45	≤23.98	16.55	≤26.99	PASS
	Ant1	5720_UNII-2C	8.59	0.25	8.84	≤22.51	12.94	≤26.99	PASS

	Ant2	5720_UNII-2C	4.67	0.25	4.92	≤22.61	8.17	≤26.99	PASS
	total	5720_UNII-2C	---	---	10.32	≤23.98	14.42	≤26.99	PASS
	Ant1	5720_UNII-3	1.87	0.25	2.12	≤30.00	6.22	---	PASS
	Ant2	5720_UNII-3	-2.27	0.25	-2.02	≤30.00	1.23	---	PASS
	total	5720_UNII-3	---	---	3.54	≤30.00	7.64	---	PASS
	Ant1	5745	8.73	0.25	8.98	≤30.00	13.08	---	PASS
	Ant2	5745	4.99	0.31	5.30	≤30.00	8.55	---	PASS
	total	5745	---	---	10.53	≤30.00	14.63	---	PASS
	Ant1	5785	8.79	0.31	9.10	≤30.00	13.20	---	PASS
	Ant2	5785	5.05	0.25	5.30	≤30.00	8.55	---	PASS
	total	5785	---	---	10.61	≤30.00	14.71	---	PASS
	Ant1	5825	9.34	0.25	9.59	≤30.00	13.69	---	PASS
	Ant2	5825	6.46	0.25	6.71	≤30.00	9.96	---	PASS
	total	5825	---	---	11.39	≤30.00	15.49	---	PASS
11N40MIMO	Ant1	5190	10.34	0.60	10.94	≤23.98	15.04	≤23.01	PASS
	Ant2	5190	6.51	0.60	7.11	≤23.98	10.36	≤23.01	PASS
	total	5190	---	---	12.44	≤23.98	16.54	≤23.01	PASS
	Ant1	5230	10.00	0.60	10.60	≤23.98	14.70	≤23.01	PASS
	Ant2	5230	5.92	0.47	6.39	≤23.98	9.64	≤23.01	PASS
	total	5230	---	---	12.00	≤23.98	16.10	≤23.01	PASS
	Ant1	5270	10.09	0.60	10.69	≤23.98	14.79	≤26.99	PASS
	Ant2	5270	5.74	0.47	6.21	≤23.98	9.46	≤26.99	PASS
	total	5270	---	---	12.01	≤23.98	16.11	≤26.99	PASS
	Ant1	5310	9.97	0.47	10.44	≤23.98	14.54	≤26.99	PASS
	Ant2	5310	5.12	0.60	5.72	≤23.98	8.97	≤26.99	PASS
	total	5310	---	---	11.70	≤23.98	15.80	≤26.99	PASS
	Ant1	5510	10.39	0.47	10.86	≤23.98	14.96	≤26.99	PASS
	Ant2	5510	5.31	0.47	5.78	≤23.98	9.03	≤26.99	PASS
	total	5510	---	---	12.03	≤23.98	16.13	≤26.99	PASS
	Ant1	5550	10.06	0.47	10.53	≤23.98	14.63	≤26.99	PASS
	Ant2	5550	4.90	0.60	5.50	≤23.98	8.75	≤26.99	PASS
	total	5550	---	---	11.72	≤23.98	15.82	≤26.99	PASS
	Ant1	5670	9.81	0.47	10.28	≤23.98	14.38	≤26.99	PASS
	Ant2	5670	4.60	0.47	5.07	≤23.98	8.32	≤26.99	PASS
	total	5670	---	---	11.42	≤23.98	15.52	≤26.99	PASS
	Ant1	5710_UNII-2C	9.36	0.60	9.96	≤23.98	14.06	≤26.99	PASS
	Ant2	5710_UNII-2C	5.06	0.60	5.66	≤23.98	8.91	≤26.99	PASS
	total	5710_UNII-2C	---	---	11.33	≤23.98	15.43	≤26.99	PASS
	Ant1	5710_UNII-3	-2.74	0.60	-2.14	≤30.00	1.97	---	PASS
	Ant2	5710_UNII-3	-6.97	0.60	-6.37	≤30.00	-3.12	---	PASS
	total	5710_UNII-3	---	---	-0.75	≤30.00	3.35	---	PASS
	Ant1	5755	9.55	0.47	10.02	≤30.00	14.12	---	PASS
	Ant2	5755	6.22	0.60	6.82	≤30.00	10.07	---	PASS
	total	5755	---	---	11.72	≤30.00	15.82	---	PASS
	Ant1	5795	9.56	0.47	10.03	≤30.00	14.13	---	PASS
	Ant2	5795	6.12	0.60	6.72	≤30.00	9.97	---	PASS
	total	5795	---	---	11.69	≤30.00	15.79	---	PASS
11AC20MIMO	Ant1	5180	9.21	0.31	9.52	≤23.98	13.62	≤22.48	PASS
	Ant2	5180	5.21	0.31	5.52	≤23.98	8.77	≤22.49	PASS
	total	5180	---	---	10.98	≤23.98	15.08	≤22.48	PASS
	Ant1	5200	9.24	0.25	9.49	≤23.98	13.59	≤22.50	PASS
	Ant2	5200	5.12	0.25	5.37	≤23.98	8.62	≤22.48	PASS
	total	5200	---	---	10.91	≤23.98	15.01	≤22.48	PASS
	Ant1	5240	8.98	0.31	9.29	≤23.98	13.39	≤22.49	PASS
	Ant2	5240	4.69	0.31	5.00	≤23.98	8.25	≤22.46	PASS
	total	5240	---	---	10.66	≤23.98	14.76	≤22.46	PASS
	Ant1	5260	9.88	0.25	10.13	≤23.91	14.23	≤26.99	PASS
	Ant2	5260	5.37	0.25	5.62	≤23.90	8.87	≤26.99	PASS
	total	5260	---	---	11.45	≤23.98	15.55	≤26.99	PASS
	Ant1	5280	9.96	0.25	10.21	≤23.89	14.31	≤26.99	PASS

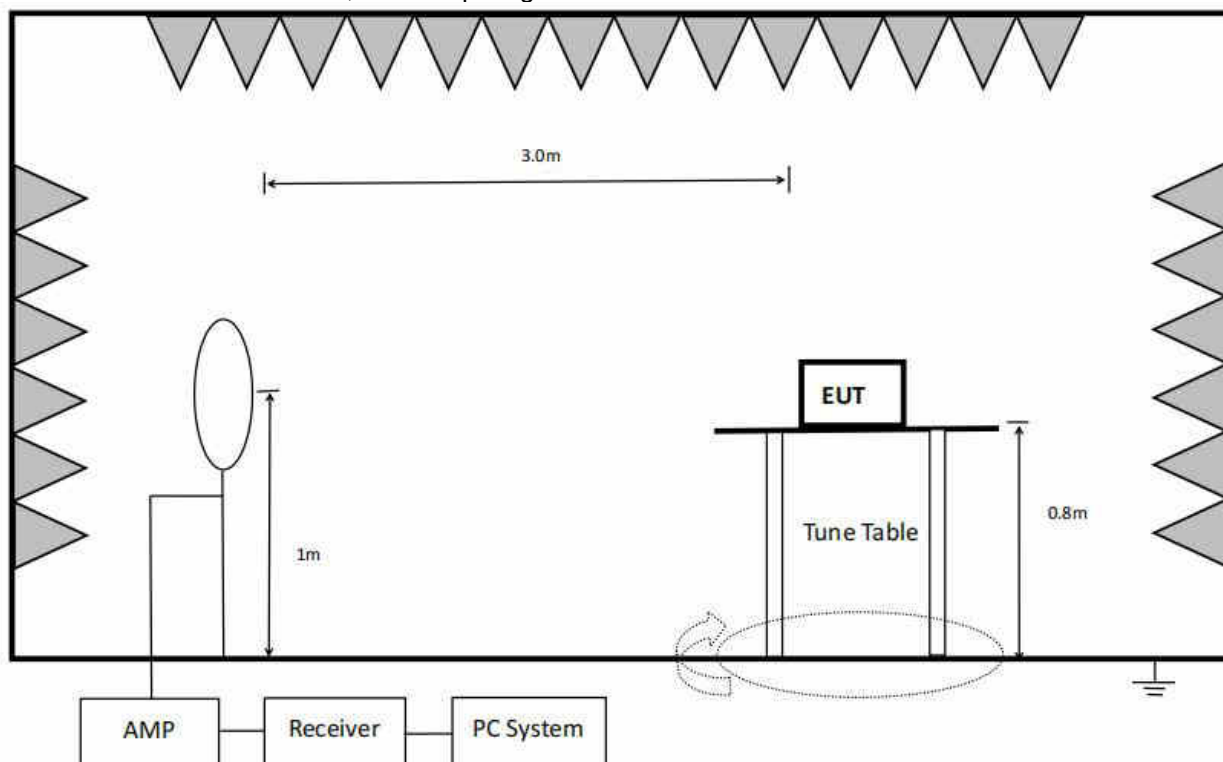
	Ant2	5280	5.31	0.25	5.56	≤23.85	8.81	≤26.99	PASS
	total	5280	---	---	11.49	≤23.98	15.59	≤26.99	PASS
	Ant1	5320	9.06	0.31	9.37	≤23.93	13.47	≤26.99	PASS
	Ant2	5320	4.69	0.25	4.94	≤23.98	8.19	≤26.99	PASS
	total	5320	---	---	10.71	≤23.98	14.81	≤26.99	PASS
	Ant1	5500	9.85	0.31	10.16	≤23.89	14.26	≤26.99	PASS
	Ant2	5500	5.01	0.25	5.26	≤23.83	8.51	≤26.99	PASS
	total	5500	---	---	11.38	≤23.98	15.48	≤26.99	PASS
	Ant1	5580	9.76	0.31	10.07	≤23.84	14.17	≤26.99	PASS
	Ant2	5580	4.17	0.31	4.48	≤23.95	7.73	≤26.99	PASS
	total	5580	---	---	11.13	≤23.98	15.23	≤26.99	PASS
	Ant1	5700	9.33	0.25	9.58	≤23.98	13.68	≤26.99	PASS
	Ant2	5700	4.70	0.25	4.95	≤23.81	8.20	≤26.99	PASS
	total	5700	---	---	10.87	≤23.98	14.97	≤26.99	PASS
	Ant1	5720_UNII-2C	9.32	0.25	9.57	≤22.76	13.67	≤26.99	PASS
	Ant2	5720_UNII-2C	4.72	0.25	4.97	≤22.73	8.22	≤26.99	PASS
	total	5720_UNII-2C	---	---	10.86	≤23.98	14.96	≤26.99	PASS
	Ant1	5720_UNII-3	2.13	0.25	2.38	≤30.00	6.48	---	PASS
	Ant2	5720_UNII-3	-2.15	0.25	-1.90	≤30.00	1.35	---	PASS
	total	5720_UNII-3	---	---	3.76	≤30.00	7.86	---	PASS
	Ant1	5745	9.78	0.31	10.09	≤30.00	14.19	---	PASS
	Ant2	5745	6.35	0.31	6.66	≤30.00	9.91	---	PASS
	total	5745	---	---	11.72	≤30.00	15.82	---	PASS
	Ant1	5785	9.91	0.31	10.22	≤30.00	14.32	---	PASS
	Ant2	5785	6.28	0.31	6.59	≤30.00	9.84	---	PASS
	total	5785	---	---	11.78	≤30.00	15.88	---	PASS
	Ant1	5825	9.44	0.25	9.69	≤30.00	13.79	---	PASS
	Ant2	5825	6.64	0.31	6.95	≤30.00	10.20	---	PASS
	total	5825	---	---	11.54	≤30.00	15.64	---	PASS
11AC40MIMO	Ant1	5190	10.42	0.47	10.89	≤23.98	14.99	≤23.01	PASS
	Ant2	5190	6.32	0.47	6.79	≤23.98	10.04	≤23.01	PASS
	total	5190	---	---	12.32	≤23.98	16.42	≤23.01	PASS
	Ant1	5230	10.10	0.47	10.57	≤23.98	14.67	≤23.01	PASS
	Ant2	5230	5.91	0.58	6.49	≤23.98	9.74	≤23.01	PASS
	total	5230	---	---	12.00	≤23.98	16.10	≤23.01	PASS
	Ant1	5270	9.78	0.58	10.36	≤23.98	14.46	≤26.99	PASS
	Ant2	5270	5.33	0.47	5.80	≤23.98	9.05	≤26.99	PASS
	total	5270	---	---	11.66	≤23.98	15.76	≤26.99	PASS
	Ant1	5310	10.20	0.58	10.78	≤23.98	14.88	≤26.99	PASS
	Ant2	5310	5.25	0.47	5.72	≤23.98	8.97	≤26.99	PASS
	total	5310	---	---	11.96	≤23.98	16.06	≤26.99	PASS
	Ant1	5510	9.37	0.58	9.95	≤23.98	14.05	≤26.99	PASS
	Ant2	5510	4.30	0.47	4.77	≤23.98	8.02	≤26.99	PASS
	total	5510	---	---	11.10	≤23.98	15.20	≤26.99	PASS
	Ant1	5550	8.94	0.47	9.41	≤23.98	13.51	≤26.99	PASS
	Ant2	5550	3.88	0.47	4.35	≤23.98	7.60	≤26.99	PASS
	total	5550	---	---	10.59	≤23.98	14.69	≤26.99	PASS
	Ant1	5670	8.96	0.58	9.54	≤23.98	13.64	≤26.99	PASS
	Ant2	5670	4.52	0.47	4.99	≤23.98	8.24	≤26.99	PASS
	total	5670	---	---	10.85	≤23.98	14.95	≤26.99	PASS
	Ant1	5710_UNII-2C	8.62	0.58	9.20	≤23.98	13.30	≤26.99	PASS
	Ant2	5710_UNII-2C	4.22	0.58	4.80	≤23.98	8.05	≤26.99	PASS
	total	5710_UNII-2C	---	---	10.55	≤23.98	14.65	≤26.99	PASS
	Ant1	5710_UNII-3	-3.51	0.58	-2.93	≤30.00	1.17	---	PASS
	Ant2	5710_UNII-3	-7.60	0.58	-7.02	≤30.00	-3.77	---	PASS
	total	5710_UNII-3	---	---	-1.50	≤30.00	2.60	---	PASS
	Ant1	5755	8.86	0.47	9.33	≤30.00	13.43	---	PASS
	Ant2	5755	5.48	0.58	6.06	≤30.00	9.31	---	PASS
	total	5755	---	---	11.01	≤30.00	15.11	---	PASS
	Ant1	5795	9.64	0.47	10.11	≤30.00	14.21	---	PASS

	Ant2	5795	6.18	0.58	6.76	≤30.00	10.01	---	PASS
	total	5795	---	---	11.76	≤30.00	15.86	---	PASS
11AC80MIMO	Ant1	5210	9.85	0.83	10.68	≤23.98	14.78	≤23.01	PASS
	Ant2	5210	5.76	0.83	6.59	≤23.98	9.84	≤23.01	PASS
	total	5210	---	---	12.11	≤23.98	16.21	≤23.01	PASS
	Ant1	5290	9.73	0.83	10.56	≤23.98	14.66	≤26.99	PASS
	Ant2	5290	5.06	0.83	5.89	≤23.98	9.14	≤26.99	PASS
	total	5290	---	---	11.83	≤23.98	15.93	≤26.99	PASS
	Ant1	5530	8.81	1.06	9.87	≤23.98	13.97	≤26.99	PASS
	Ant2	5530	3.98	0.83	4.81	≤23.98	8.06	≤26.99	PASS
	total	5530	---	---	11.05	≤23.98	15.15	≤26.99	PASS
	Ant1	5610	8.39	1.06	9.45	≤23.98	13.55	≤26.99	PASS
	Ant2	5610	3.81	1.06	4.87	≤23.98	8.12	≤26.99	PASS
	total	5610	---	---	10.75	≤23.98	14.85	≤26.99	PASS
	Ant1	5690_UNII-2C	8.21	1.06	9.27	≤23.98	13.37	≤26.99	PASS
	Ant2	5690_UNII-2C	3.79	1.06	4.85	≤23.98	8.10	≤26.99	PASS
	total	5690_UNII-2C	---	---	10.61	≤23.98	14.71	≤26.99	PASS
	Ant1	5690_UNII-3	-7.31	1.06	-6.25	≤30.00	-2.15	---	PASS
	Ant2	5690_UNII-3	-11.19	1.06	-10.13	≤30.00	-6.88	---	PASS
	total	5690_UNII-3	---	---	-4.76	≤30.00	-0.66	---	PASS
	Ant1	5775	8.52	0.83	9.35	≤30.00	13.45	---	PASS
	Ant2	5775	5.29	0.83	6.12	≤30.00	9.37	---	PASS
	total	5775	---	---	11.04	≤30.00	15.14	---	PASS

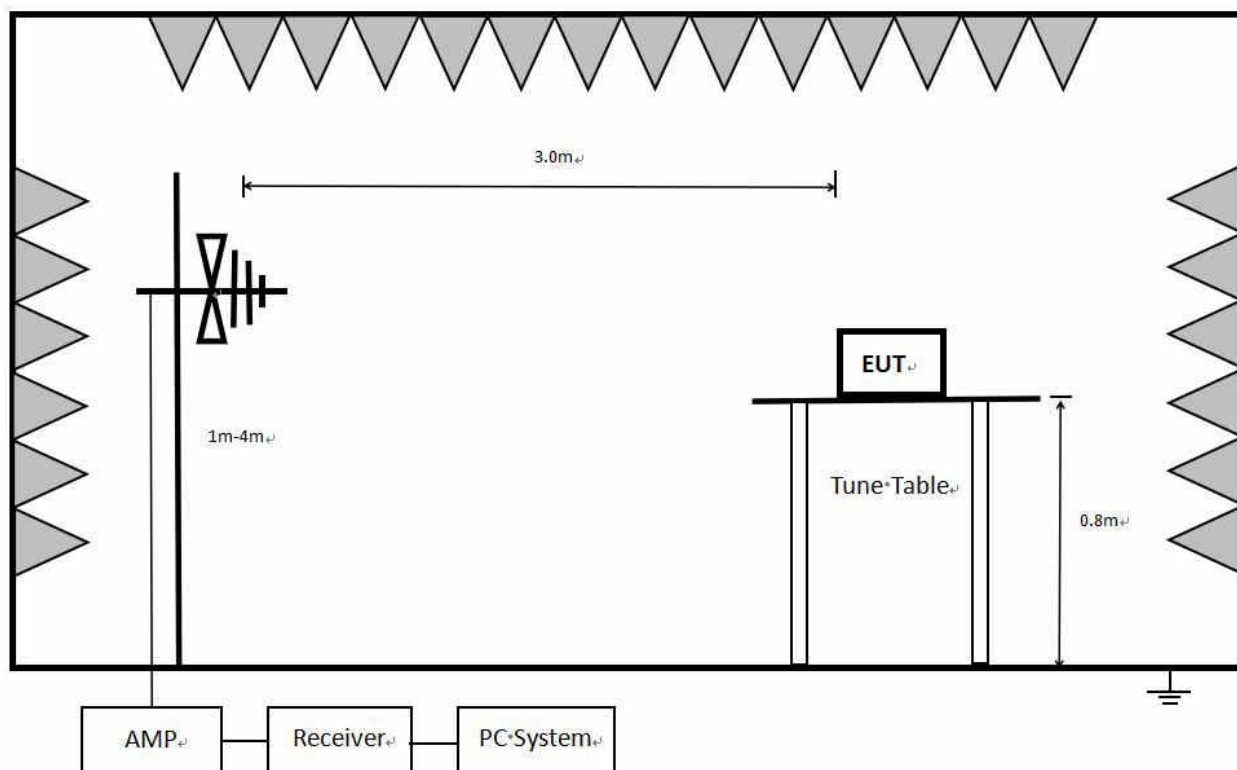
9. Radiated Emission

9.1. Block Diagram of Test Setup

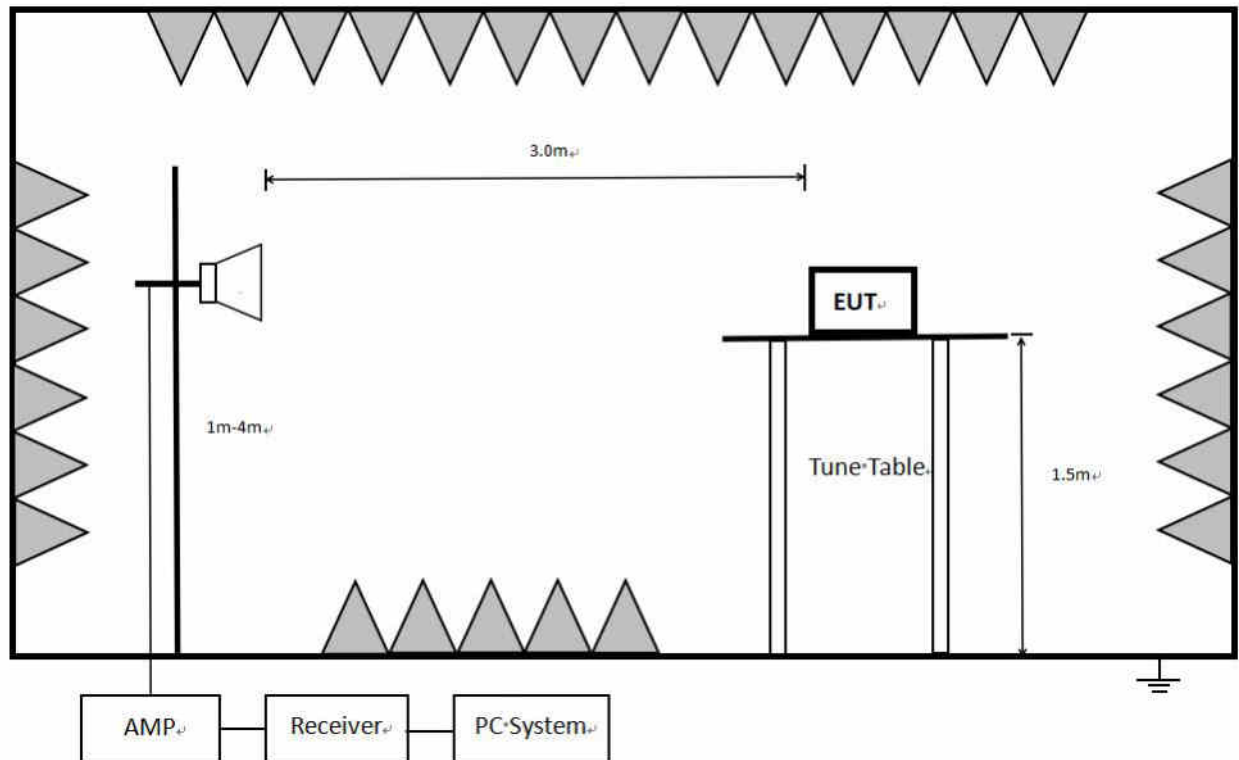
In 3 m Anechoic Chamber, test setup diagram for 9 kHz - 30 MHz:



In 3 m Anechoic Chamber, test setup diagram for 30 MHz - 1 GHz:



In 3 m Anechoic Chamber, test setup diagram for frequency above 1 GHz:



Note: For harmonic emissions test an appropriate high pass filter was inserted in the input port of AMP.

9.2. Limit

(1) FCC 15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.1772&4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.2072&4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

²Above 38.6

(2) FCC 15.209 Limit.

Frequency MHz	Distance Meters	Field strengths limit	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
0.009 ~ 0.490	300	2400/F(kHz)	67.6-20log(F)
0.490 ~ 1.705	30	24000/F(kHz)	87.6-20log(F)
1.705 ~ 30.0	30	30	29.54
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

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

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

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

(4) For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm / MHz.

(5) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.

(6) The provisions of §15.205 apply to intentional radiators operating under this section.

-27 dBm/MHz Limit=95.2+EIRP (dBm)=95.2-27=68.2 dB $\mu\text{V}/\text{m}$

Note:

(1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000MHz. Radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30MHz, measurement may be performed at a distance closer than that specified, and the limit at closer measurement distance can be extrapolated by below formula:

$$\text{Limit}_{3\text{m}}(\text{dB}\mu\text{V}/\text{m}) = \text{Limit}_{30\text{m}}(\text{dB}\mu\text{V}/\text{m}) + 40\text{Log}(30\text{m}/3\text{m})$$

(3) Limit for this EUT

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions or comply with 15.209 limits.

9.3. Test Procedure

Below 30 MHz:

The setting of the spectrum Analyzer

RBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
VBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013

2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 80 cm meter above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of 1 meter height antenna tower.

5. The radiated emission limits 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.

6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore, sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KdB 414788.

Below 1 GHz and above 30 MHz:

The setting of the spectrum Analyzer

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 80 cm above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

Above 1 GHz:

RBW	1 MHz
VBW	PEAK: 3 MHz AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 1.5m above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement above 1GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.

6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video

bandwidth with peak detector for AVG measurements. For the Duty Cycle please refer to clause 8.1.ON TIME AND DUTY CYCLE.

7. Restriction band: Investigated frequency range from 5.15-5.25 GHz, 5250-5350 GHz, 5470-5725 GHz, 5.725-5.85 GHz.

All restriction band should comply with 15.209, other emission should be at least 20 dB below the fundamental.

Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

Note 2: The EUT does not support simultaneous transmission.

Note 3: The EUT was fully exercised with external accessories during the test. In the case of multiple accessory external ports, an external accessory shall be connected to one of each type of port.

9.4. Test Result

PASS. (See below detailed test result)

All the emissions except fundamental emission from 9kHz to 40GHz were comply with 15.209 limit.

Note1: According exploratory test, the emission levels are 20 dB below the limit detected from 9 kHz to 30 MHz and 18 GHz to 40 GHz, so the final test was performed with frequency range from 30 MHz to 18 GHz and recorded in below.

Note2: For emissions below 1 GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1 GHz, the final test was only performed with EUT working in 11AC80_5610MHz mode

Note3: For below test data, when the limit tabular marked "/" means this frequency point is the fundamental emission and no need comply with this limit.

Note 4: As specified in 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in 15.407(b)(4)). However, an out-of-band emission that complies with both the average and peak limits of 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz peak emission limit

Note 5: For emissions Above 1 GHz, all mode have been tested, 11AC80 mode is worse case and recorded in report.

9.5. Original Test Data

Below 1 GHz and above 30 MHz test data Refer to appendix A

Above 1 GHz test data Refer to appendix B

10. Antenna Requirements

10.1. Applicable Requirements

Please refer to FCC §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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. 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.

Please refer to FCC §15.247(b)(4)

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

10.2. Result

The device support 2T2R MIMO, the antennas both used for this product are dedicated PCB antennas and other than that furnished by the responsible party shall be used with the device, maximum antenna gain is 4.1 dBi for antenna.

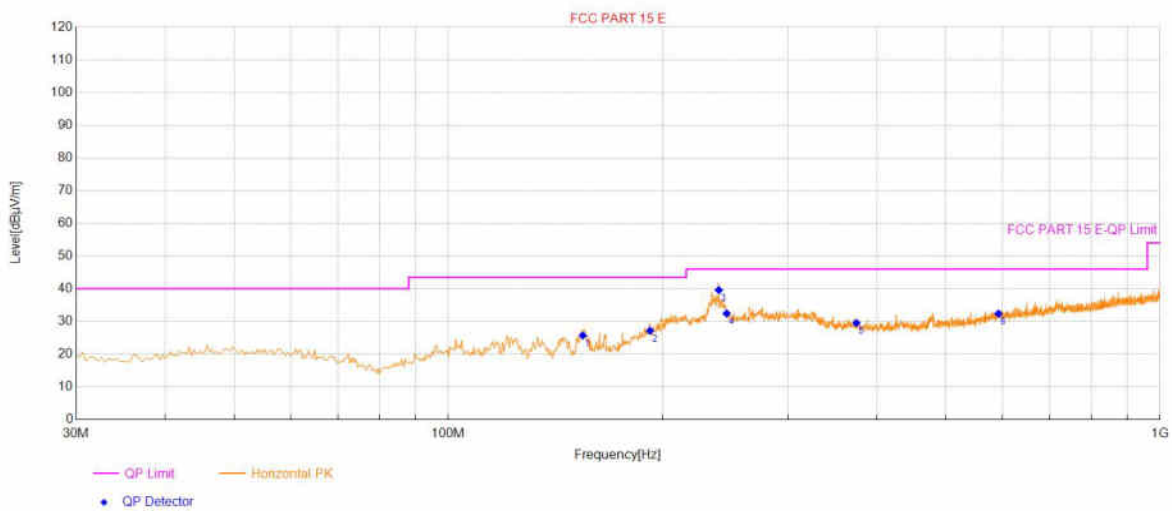
APPENDIX A - Radiated Emission Below 1GHz Test Data

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11AC80_5610	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC PART 15 C			

Start of Test: 2024-06-25

Test Graph



Final Data List

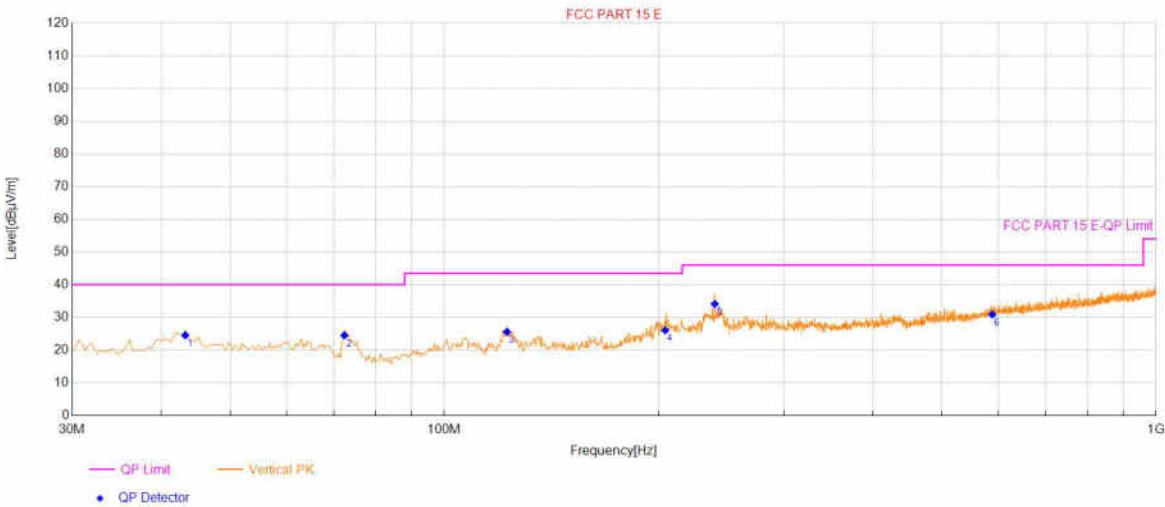
NO.	Frequency (MHz)	QP Value (dBμV/m)	QP Limit (dBμV/m)	QP Margin (dB)	Height (cm)	Angle (°)	Polarity	Verdict
1	154.5248	25.70	43.50	17.80	100	83	Horizontal	PASS
2	192.0440	27.22	43.50	16.28	100	3	Horizontal	PASS
3	239.9133	39.60	46.00	6.40	100	234	Horizontal	PASS
4	246.0586	32.45	46.00	13.55	100	22	Horizontal	PASS
5	374.4648	29.52	46.00	16.48	100	311	Horizontal	PASS
6	592.7875	32.40	46.00	13.60	100	3	Horizontal	PASS

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11AC80_5610	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC PART 15 C			

Start of Test: 2024-06-25

Test Graph



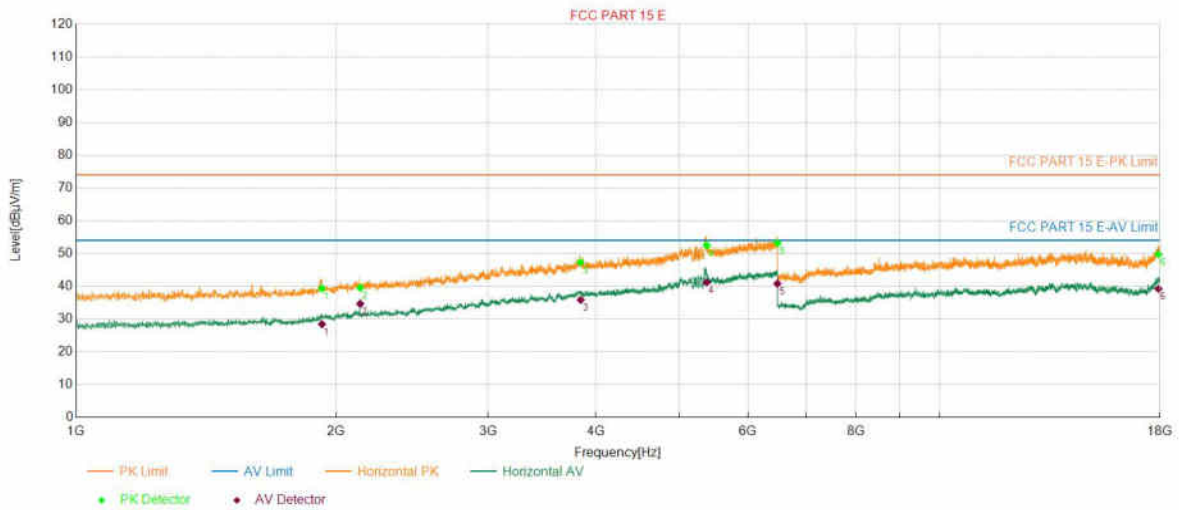
Final Data List								
NO.	Frequency (MHz)	QP Value (dBµV/m)	QP Limit (dBµV/m)	QP Margin (dB)	Height (cm)	Angle (°)	Polarity	Verdict
1	43.2610	24.57	40.00	15.43	100	270	Vertical	PASS
2	72.3707	24.55	40.00	15.45	100	143	Vertical	PASS
3	122.5041	25.62	43.50	17.88	100	220	Vertical	PASS
4	204.3347	26.09	43.50	17.41	100	68	Vertical	PASS
5	239.9133	34.15	46.00	11.85	100	229	Vertical	PASS
6	588.9063	30.90	46.00	15.10	100	2	Vertical	PASS

APPENDIX B – Radiated Emission Above 1GHz Test Data Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11AC80_5290	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC PART 15 E			

Start of Test:2024-06-24

Test Graph



PK Final Data List

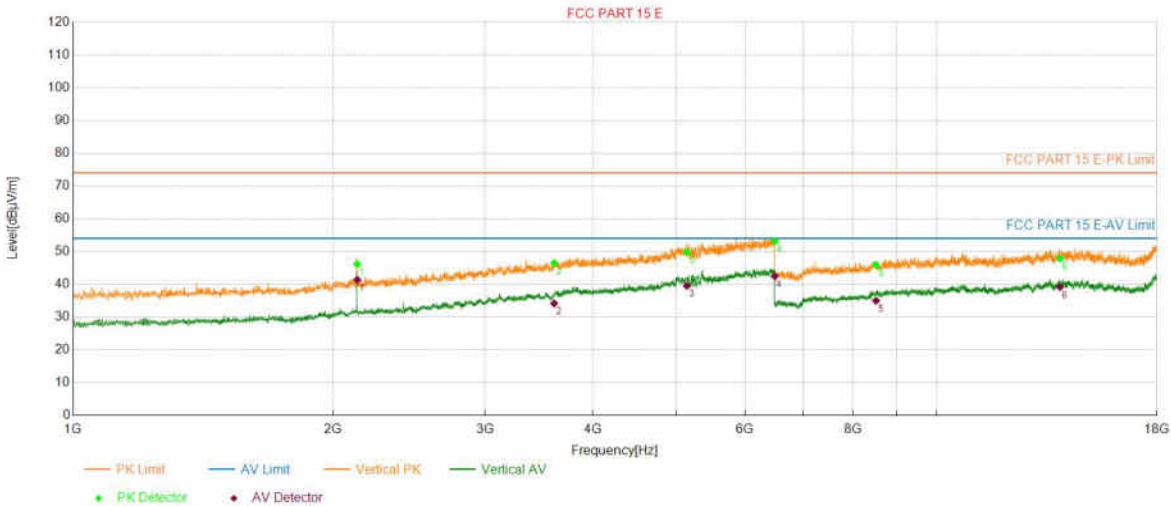
NO	Frequency (MHz)	PK Value (dBμV/m)	PK Limit (dBμV/m)	PK Margin (dB)	AV Value (dBμV/m)	AV Limit (dBμV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1926.3852	39.34	74.00	34.66	28.46	54.00	25.54	150	248	Horizontal
2	2133.2266	39.58	74.00	34.42	34.66	54.00	19.34	150	124	Horizontal
3	3839.6679	47.31	74.00	26.69	35.86	54.00	18.14	150	124	Horizontal
4	5375.5751	52.46	74.00	21.54	41.22	54.00	12.78	150	3	Horizontal
5	6487.8975	53.20	74.00	20.80	40.81	54.00	13.19	150	29	Horizontal
6	17926.3852	49.77	74.00	24.23	39.21	54.00	14.79	150	90	Horizontal

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11AC80_5290	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC PART 15 E			

Start of Test:2024-06-24

Test Graph



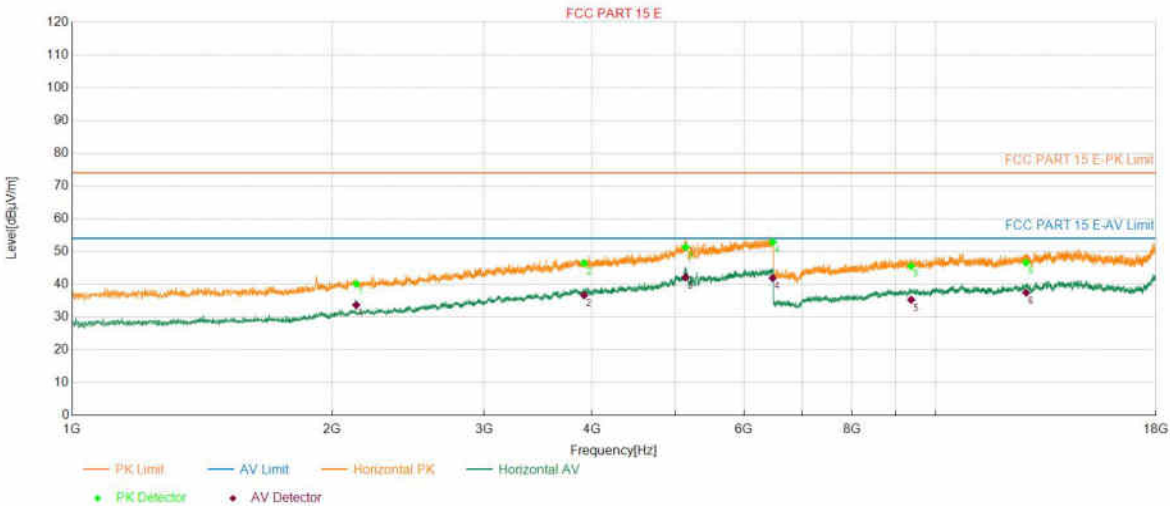
PK Final Data List										
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1	2133.2266	46.15	74.00	27.85	41.37	54.00	12.63	150	91	Vertical
2	3606.4212	46.44	74.00	27.56	34.19	54.00	19.81	150	322	Vertical
3	5137.9275	49.78	74.00	24.22	39.56	54.00	14.44	150	313	Vertical
4	6495.5991	53.16	74.00	20.84	42.48	54.00	11.52	150	58	Vertical
5	8508.3016	45.91	74.00	28.09	34.99	54.00	19.01	150	286	Vertical
6	13895.9791	47.95	74.00	26.05	39.20	54.00	14.80	150	95	Vertical

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11AC80_5210	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC PART 15 E			

Start of Test:2024-06-25

Test Graph



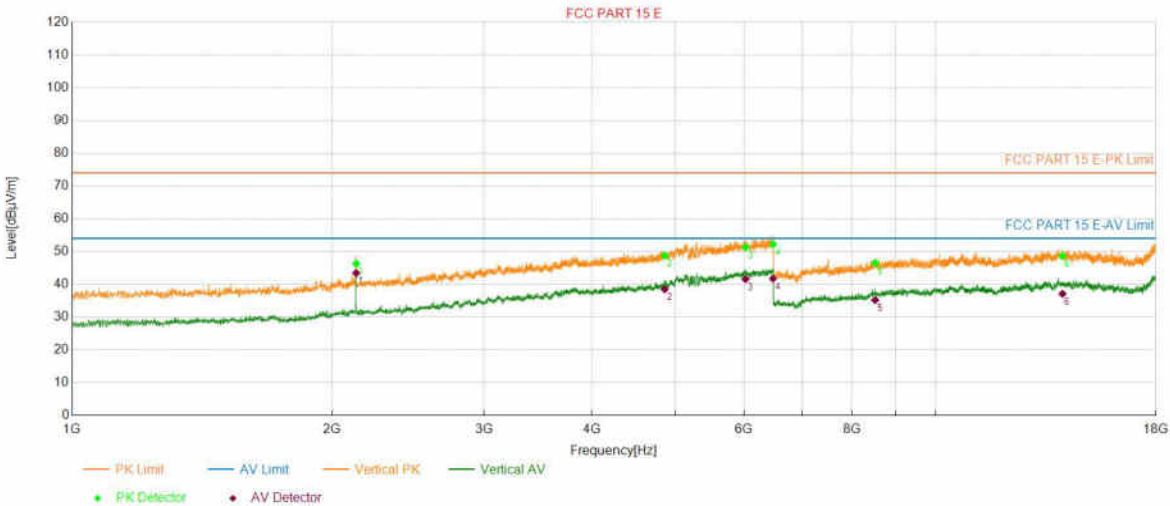
PK Final Data List										
NO	Frequency (MHz)	PK Value (dBµV/m)	PK Limit (dBµV/m)	PK Margin (dB)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	2133.2266	40.10	74.00	33.90	33.68	54.00	20.32	150	125	Horizontal
2	3916.6833	46.44	74.00	27.56	36.64	54.00	17.36	150	359	Horizontal
3	5133.5267	51.35	74.00	22.65	42.12	54.00	11.88	150	210	Horizontal
4	6475.7951	52.86	74.00	21.14	41.92	54.00	12.08	150	8	Horizontal
5	9368.6737	45.54	74.00	28.46	35.28	54.00	18.72	150	148	Horizontal
6	12731.9463	46.61	74.00	27.39	37.44	54.00	16.56	150	273	Horizontal

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11AC80_5210	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC PART 15 E			

Start of Test:2024-06-25

Test Graph



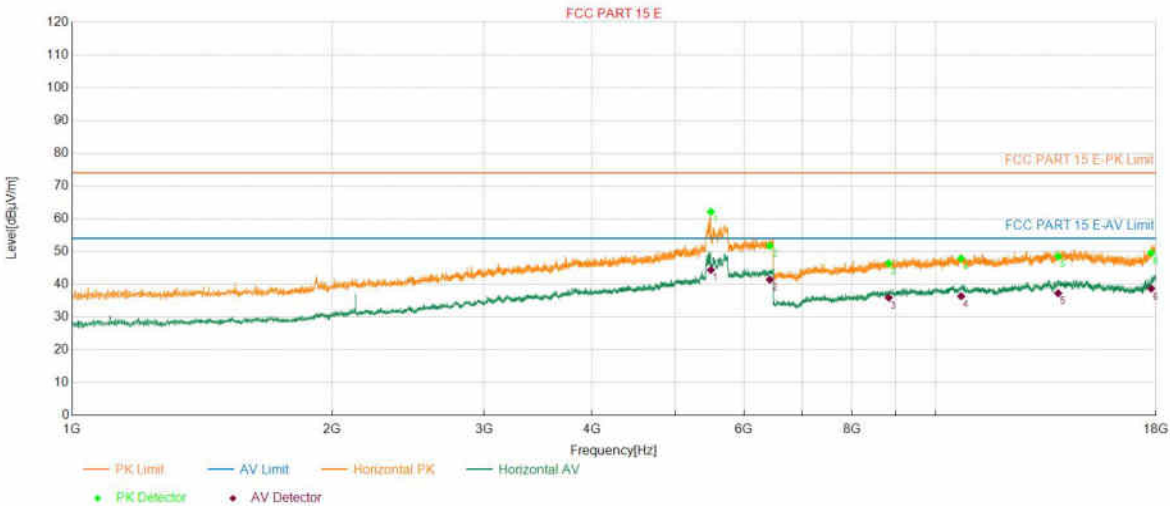
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1	2133.2266	46.27	74.00	27.73	43.43	54.00	10.57	150	88	Vertical
2	4856.2712	48.76	74.00	25.24	38.51	54.00	15.49	150	2	Vertical
3	6024.7049	51.30	74.00	22.70	41.60	54.00	12.40	150	358	Vertical
4	6482.3964	52.21	74.00	21.79	41.75	54.00	12.25	150	277	Vertical
5	8512.9025	46.50	74.00	27.50	35.21	54.00	18.79	150	186	Vertical
6	14024.8049	48.65	74.00	25.35	37.12	54.00	16.88	150	196	Vertical

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11AC80_5530	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC PART 15 E			

Start of Test:2024-06-25

Test Graph



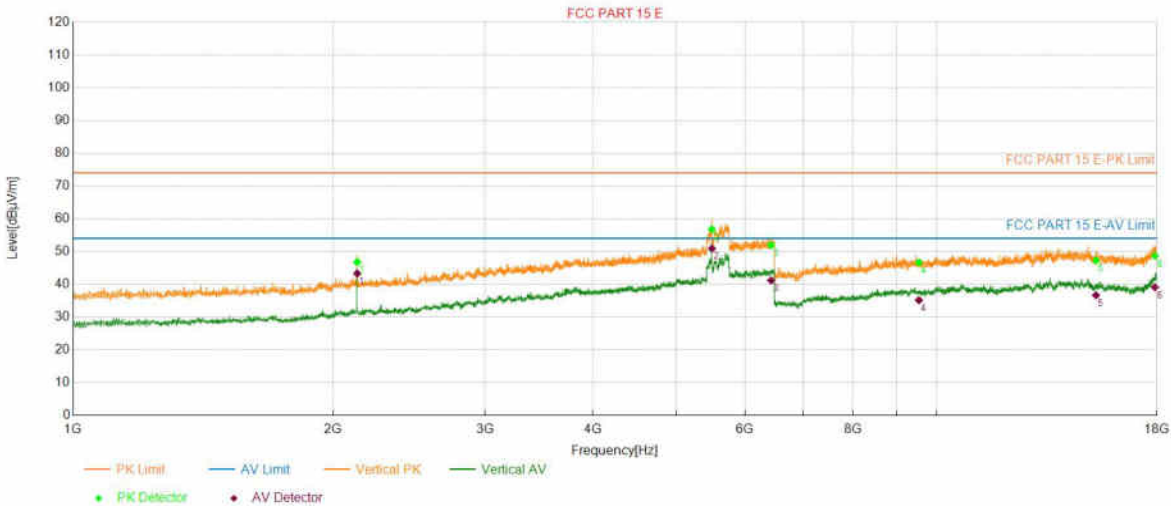
PK Final Data List										
NO	Frequency (MHz)	PK Value (dBµV/m)	PK Limit (dBµV/m)	PK Margin (dB)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5492.1984	62.13	74.00	11.87	44.38	54.00	9.62	150	178	Horizontal
2	6427.3854	51.75	74.00	22.25	41.45	54.00	12.55	150	359	Horizontal
3	8825.7651	46.37	74.00	27.63	35.92	54.00	18.08	150	18	Horizontal
4	10705.2410	47.90	74.00	26.10	36.37	54.00	17.63	150	112	Horizontal
5	13866.0732	48.52	74.00	25.48	37.28	54.00	16.72	150	59	Horizontal
6	17769.9539	49.58	74.00	24.42	38.69	54.00	15.31	150	184	Horizontal

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11AC80_5530	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC PART 15 E			

Start of Test:2024-06-25

Test Graph



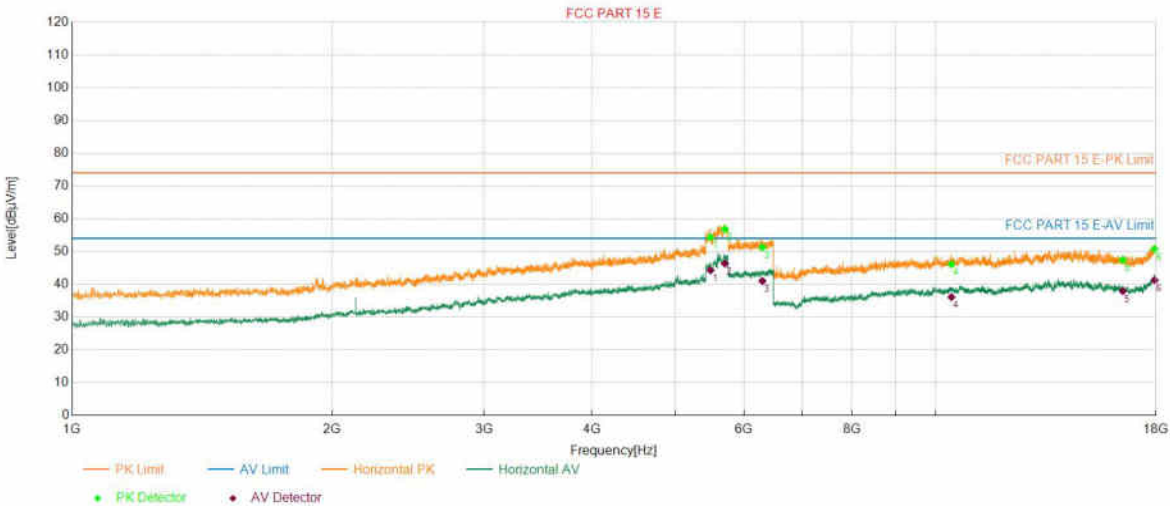
PK Final Data List										
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1	2133.2266	46.81	74.00	27.19	43.29	54.00	10.71	150	93	Vertical
2	5492.1984	56.77	74.00	17.23	50.93	54.00	3.07	150	124	Vertical
3	6431.7863	51.98	74.00	22.02	41.17	54.00	12.83	150	71	Vertical
4	9538.9077	46.65	74.00	27.35	35.15	54.00	18.85	150	8	Vertical
5	15294.6589	47.31	74.00	26.69	36.66	54.00	17.34	150	229	Vertical
6	17905.6811	48.66	74.00	25.34	39.10	54.00	14.90	150	14	Vertical

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11AC80_5610	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC PART 15 E			

Start of Test:2024-06-25

Test Graph



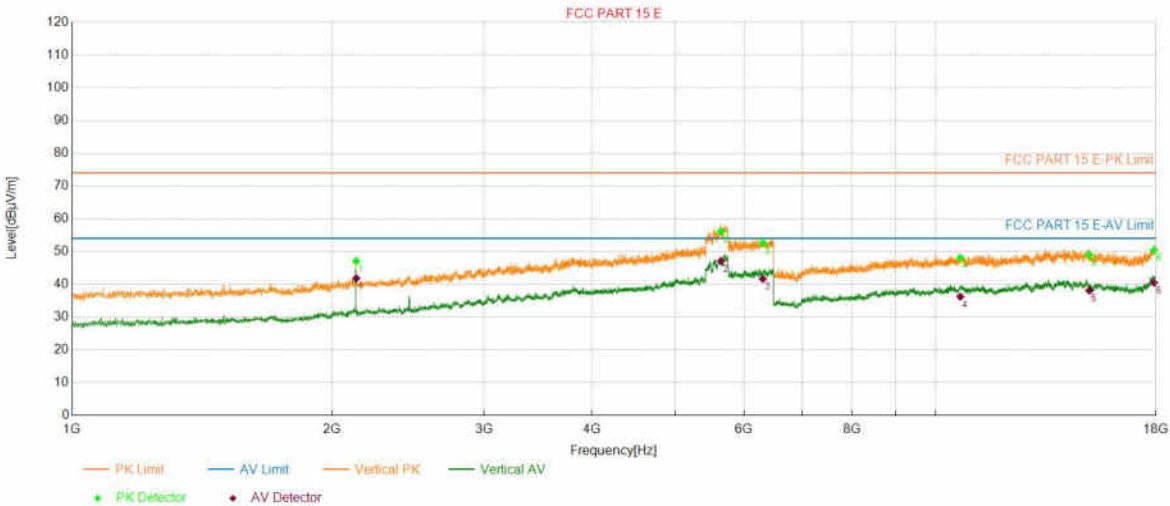
PK Final Data List										
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1	5486.6973	54.31	74.00	19.69	44.27	54.00	9.73	150	309	Horizontal
2	5701.2402	56.85	74.00	17.15	46.35	54.00	7.65	150	8	Horizontal
3	6300.8601	51.28	74.00	22.72	41.03	54.00	12.97	150	38	Horizontal
4	10431.4862	46.13	74.00	27.87	36.10	54.00	17.90	150	57	Horizontal
5	16474.7949	47.46	74.00	26.54	37.92	54.00	16.08	150	6	Horizontal
6	17930.9861	50.80	74.00	23.20	41.24	54.00	12.76	150	184	Horizontal

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11AC80_5610	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC PART 15 E			

Start of Test:2024-06-25

Test Graph



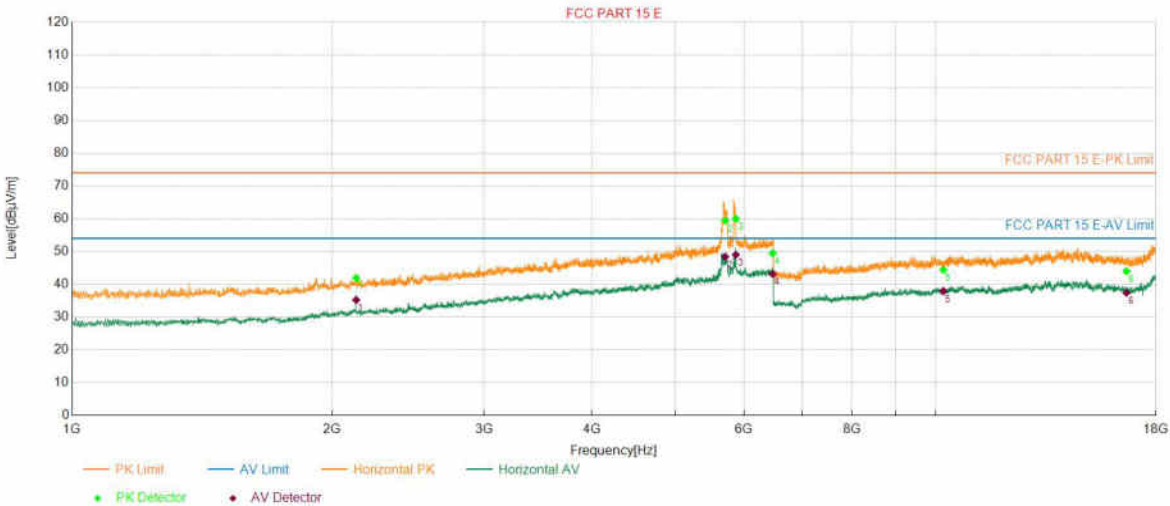
PK Final Data List										
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1	2133.2266	47.07	74.00	26.93	41.82	54.00	12.18	150	81	Vertical
2	5644.0288	56.21	74.00	17.79	47.11	54.00	6.89	150	40	Vertical
3	6308.5617	52.58	74.00	21.42	41.64	54.00	12.36	150	28	Vertical
4	10682.2364	48.05	74.00	25.95	36.23	54.00	17.77	150	185	Vertical
5	15066.9133	48.98	74.00	25.02	38.08	54.00	15.92	150	3	Vertical
6	17910.2820	50.44	74.00	23.56	40.48	54.00	13.52	150	27	Vertical

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11AC80_5775	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC PART 15 E			

Start of Test:2024-06-25

Test Graph



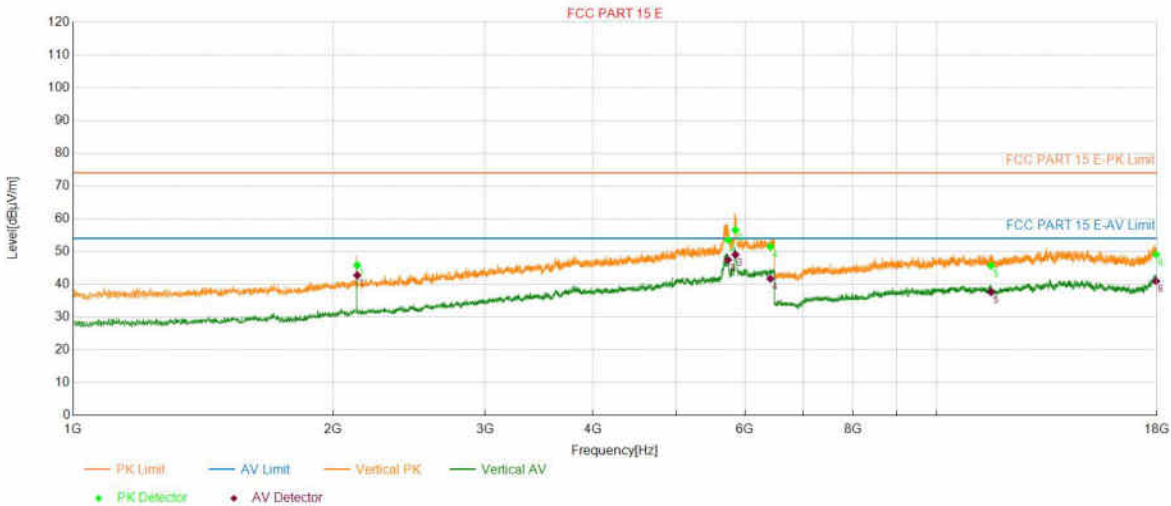
PK Final Data List										
NO	Frequency (MHz)	PK Value (dBµV/m)	PK Limit (dBµV/m)	PK Margin (dB)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	2133.2266	41.89	74.00	32.11	35.23	54.00	18.77	150	125	Horizontal
2	5705.6411	59.41	74.00	14.59	48.40	54.00	5.60	150	29	Horizontal
3	5869.5739	60.00	74.00	14.00	49.02	54.00	4.98	150	41	Horizontal
4	6475.7951	49.49	74.00	24.51	43.15	54.00	10.85	150	41	Horizontal
5	10208.3416	44.41	74.00	29.59	37.97	54.00	16.03	150	197	Horizontal
6	16633.5267	43.98	74.00	30.02	37.40	54.00	16.60	150	1	Horizontal

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11AC80_5775	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC PART 15 E			

Start of Test:2024-06-25

Test Graph



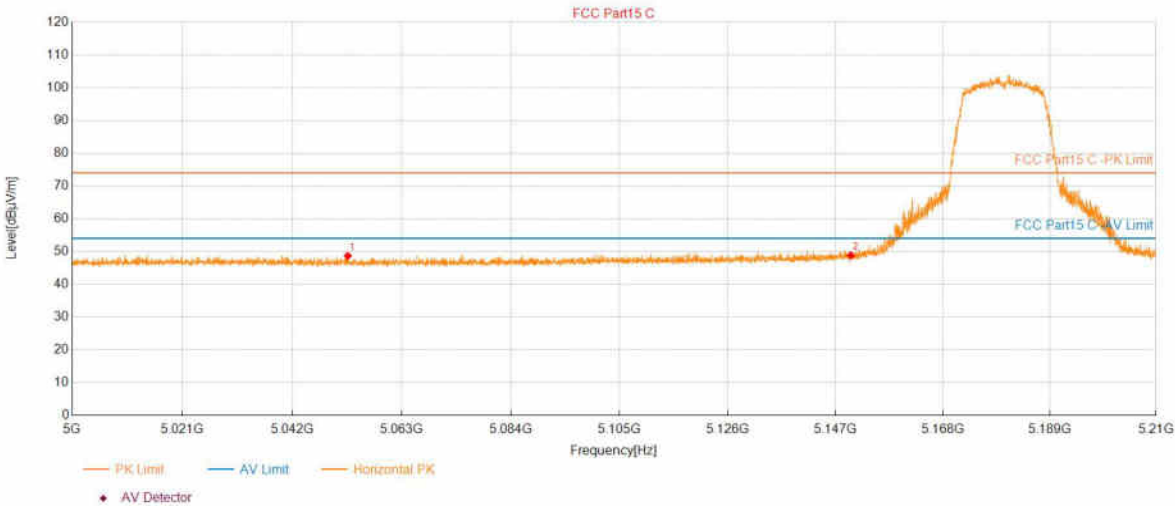
PK Final Data List										
NO	Frequency (MHz)	PK Value (dBµV/m)	PK Limit (dBµV/m)	PK Margin (dB)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	2133.2266	45.85	74.00	28.15	42.74	54.00	11.26	150	92	Vertical
2	5734.2468	53.49	74.00	20.51	47.47	54.00	6.53	150	217	Vertical
3	5847.5695	56.62	74.00	17.38	49.04	54.00	4.96	150	92	Vertical
4	6419.6839	51.42	74.00	22.58	41.73	54.00	12.27	150	343	Vertical
5	11561.0122	45.70	74.00	28.30	37.63	54.00	16.37	150	186	Vertical
6	17963.1926	49.08	74.00	24.92	40.94	54.00	13.06	150	93	Vertical

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11A_5180	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-24

Test Graph



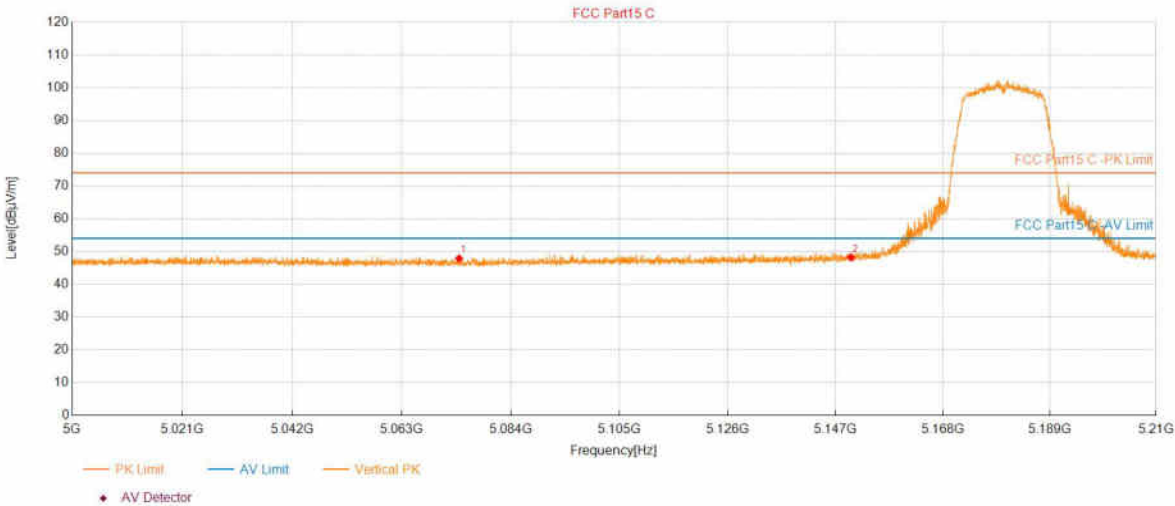
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5052.595	48.69	74.00	25.31	150	132	Horizontal
2	5150.012	48.84	74.00	25.16	150	26	Horizontal

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11A_5180	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-24

Test Graph



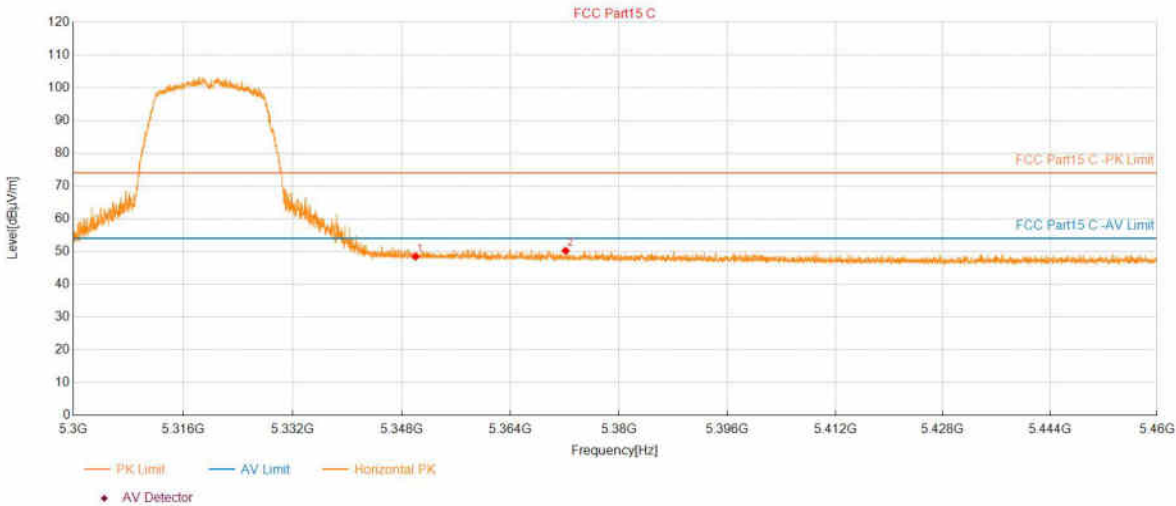
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5073.977	47.91	74.00	26.09	150	203	Vertical
2	5150.012	48.22	74.00	25.78	150	267	Vertical

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11A_5320	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-24

Test Graph



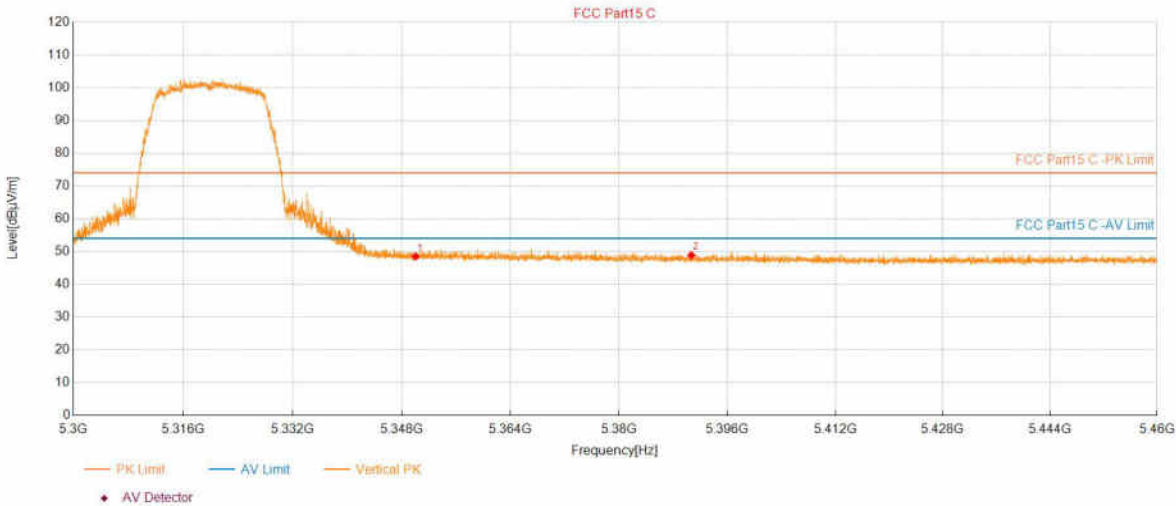
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5350.026	48.43	74.00	25.57	150	222	Horizontal
2	5372.110	50.25	74.00	23.75	150	106	Horizontal

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11A_5320	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-24

Test Graph



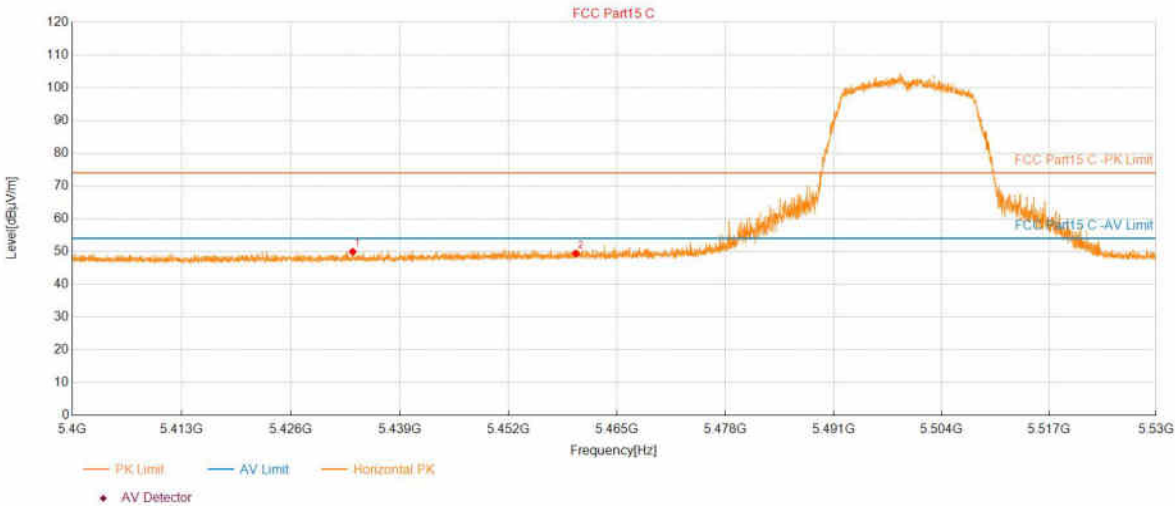
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5350.026	48.50	74.00	25.50	150	104	Vertical
2	5390.674	48.87	74.00	25.13	150	75	Vertical

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11A_5500	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-24

Test Graph



Suspected Data List

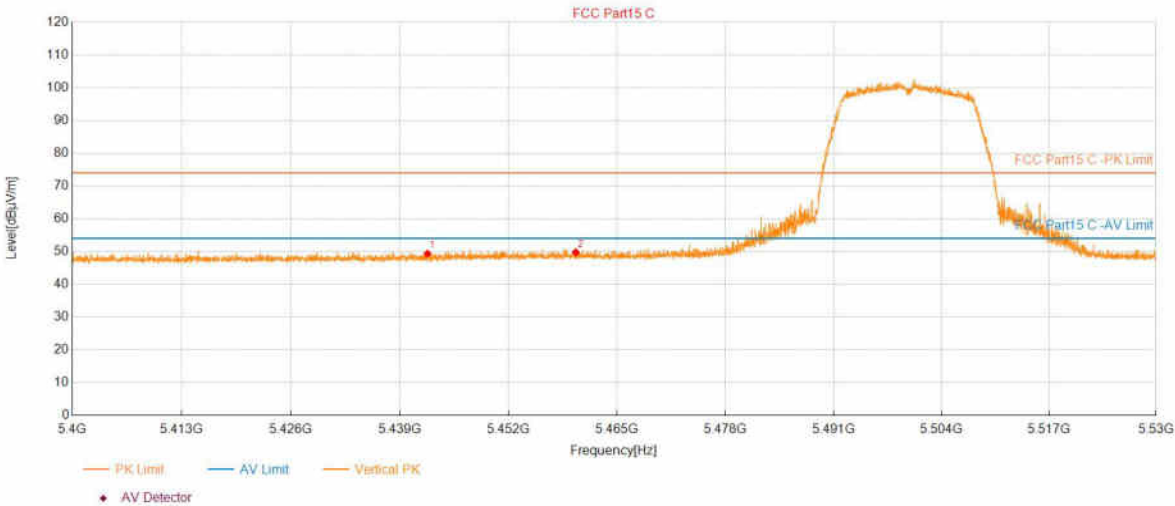
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5433.365	49.90	74.00	24.10	150	79	Horizontal
2	5460.020	49.35	74.00	24.65	150	79	Horizontal

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11A_5500	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-24

Test Graph



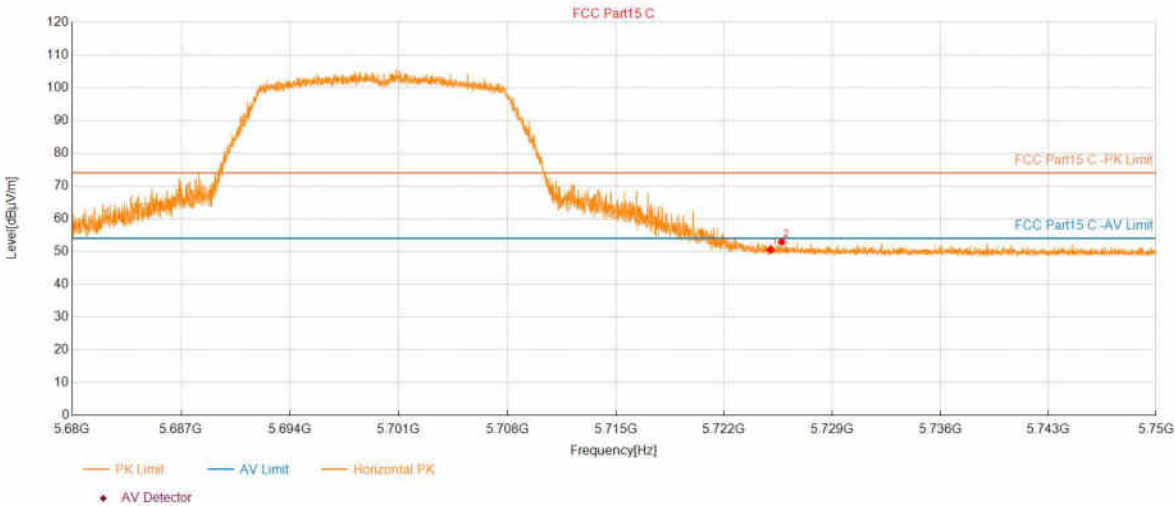
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5442.284	49.33	74.00	24.67	150	214	Vertical
2	5460.020	49.76	74.00	24.24	150	98	Vertical

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11A_5700	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-24

Test Graph



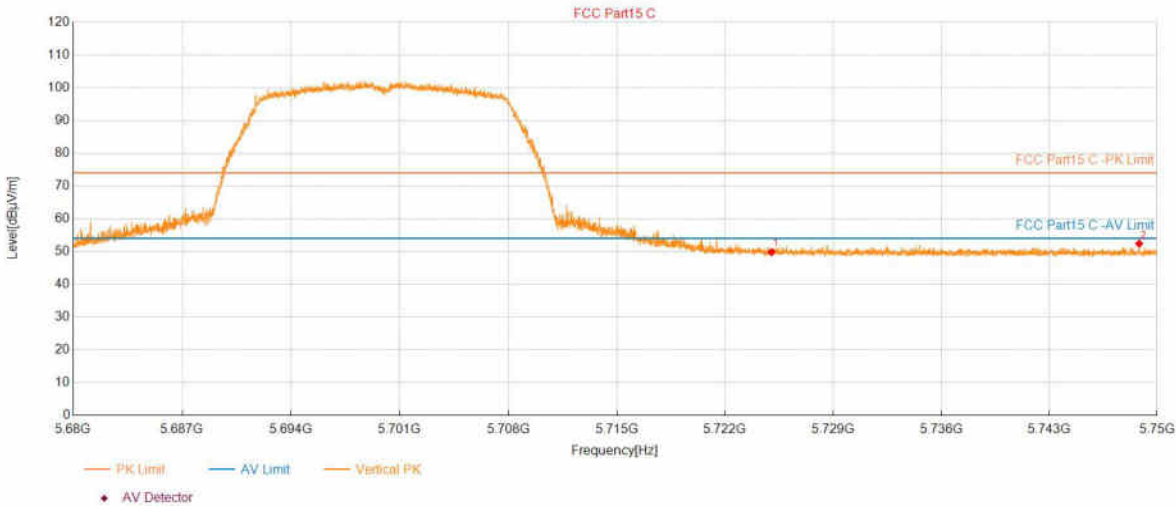
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5725.005	50.50	74.00	23.50	150	63	Horizontal
2	5725.733	52.95	74.00	21.05	150	27	Horizontal

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11A_5700	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-24

Test Graph



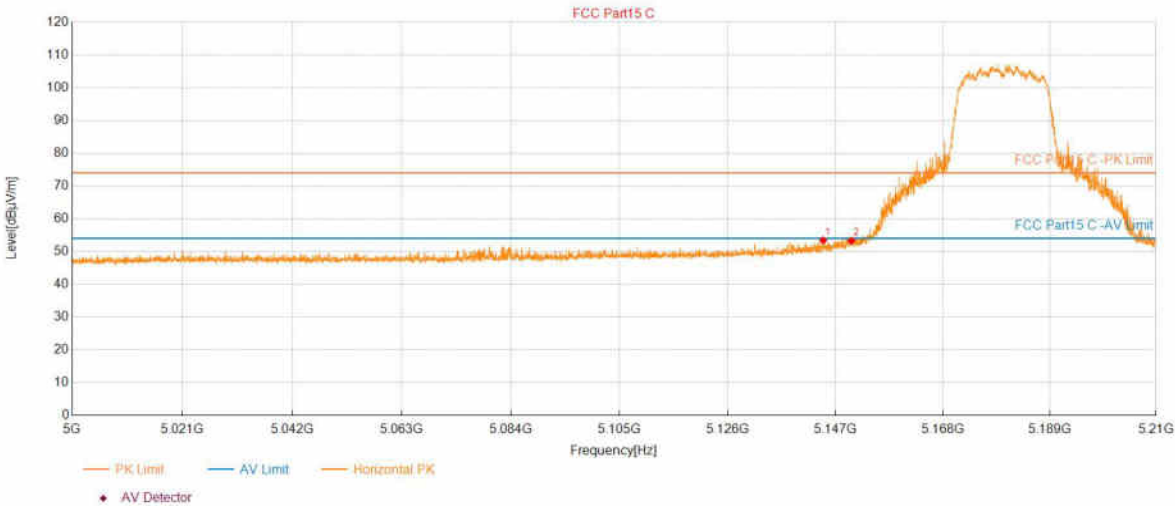
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5725.005	49.80	74.00	24.20	150	271	Vertical
2	5748.838	52.42	74.00	21.58	150	112	Vertical

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11N20_5180	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-24

Test Graph



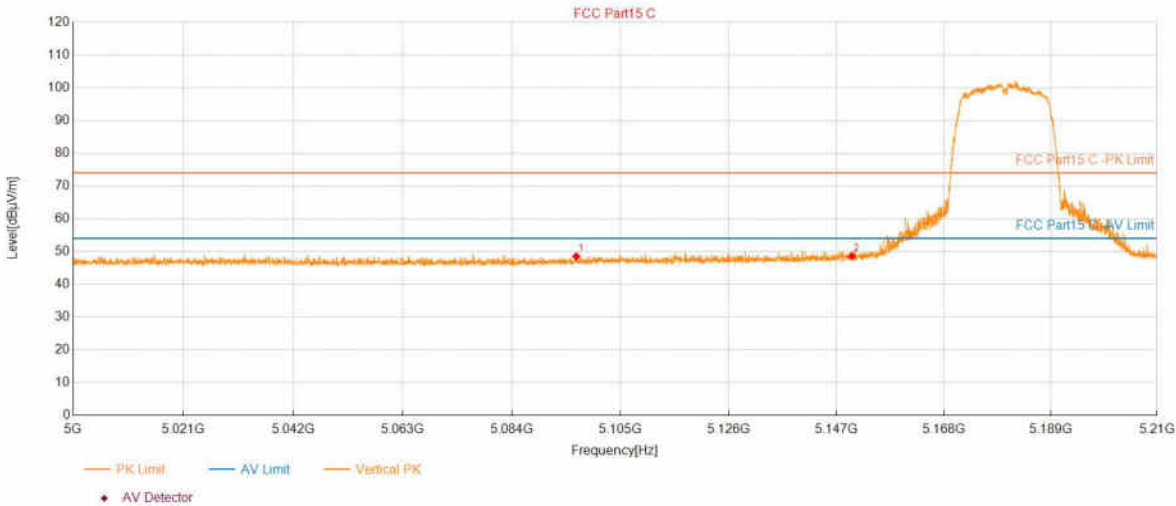
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5144.593	53.40	74.00	20.60	150	24	Horizontal
2	5150.096	53.26	74.00	20.74	150	320	Horizontal

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11N20_5180	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-24

Test Graph



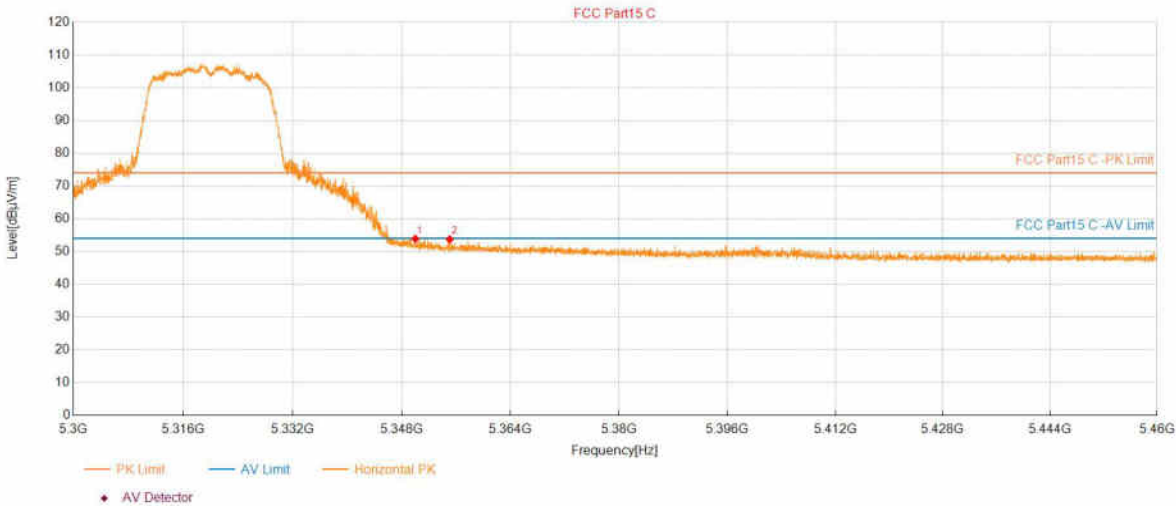
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5096.409	48.54	74.00	25.46	150	254	Vertical
2	5150.012	48.56	74.00	25.44	150	112	Vertical

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11N20_5320	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-24

Test Graph



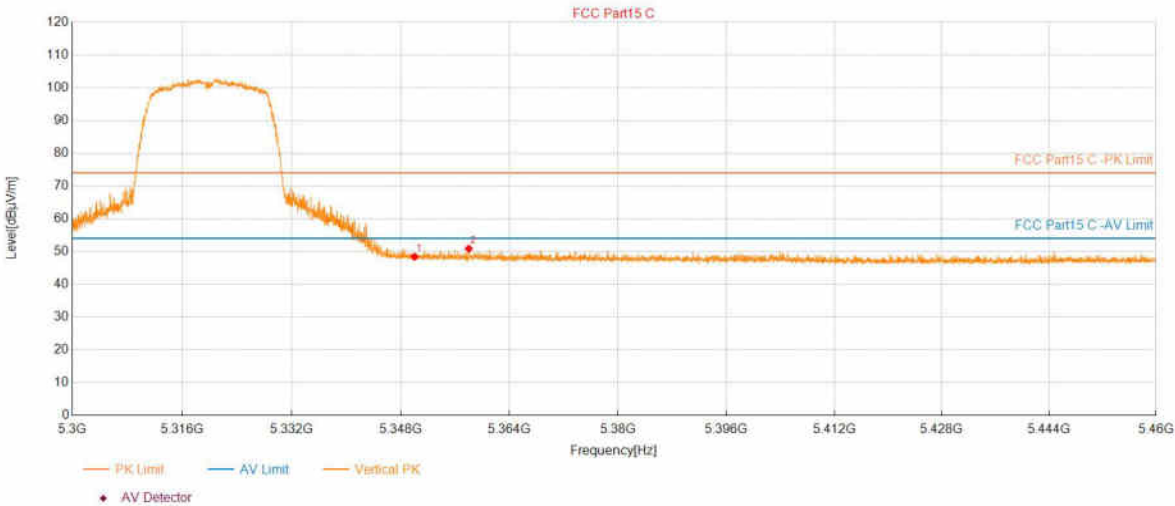
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5349.994	53.89	74.00	20.11	150	357	Horizontal
2	5355.051	53.77	74.00	20.23	150	9	Horizontal

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11N20_5320	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-24

Test Graph



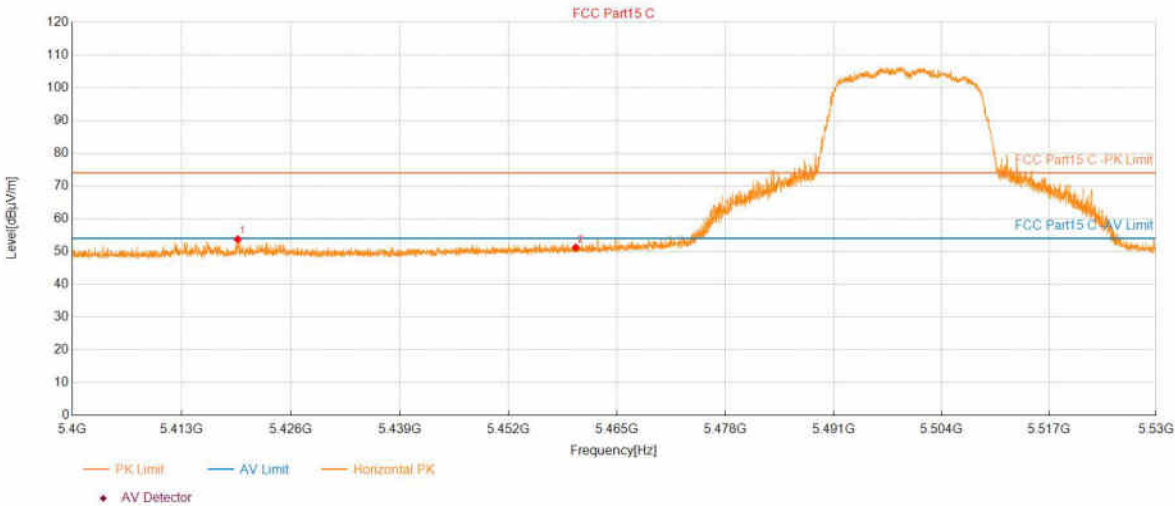
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5350.026	48.38	74.00	25.62	150	255	Vertical
2	5357.996	50.89	74.00	23.11	150	51	Vertical

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11N20_5500	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-24

Test Graph



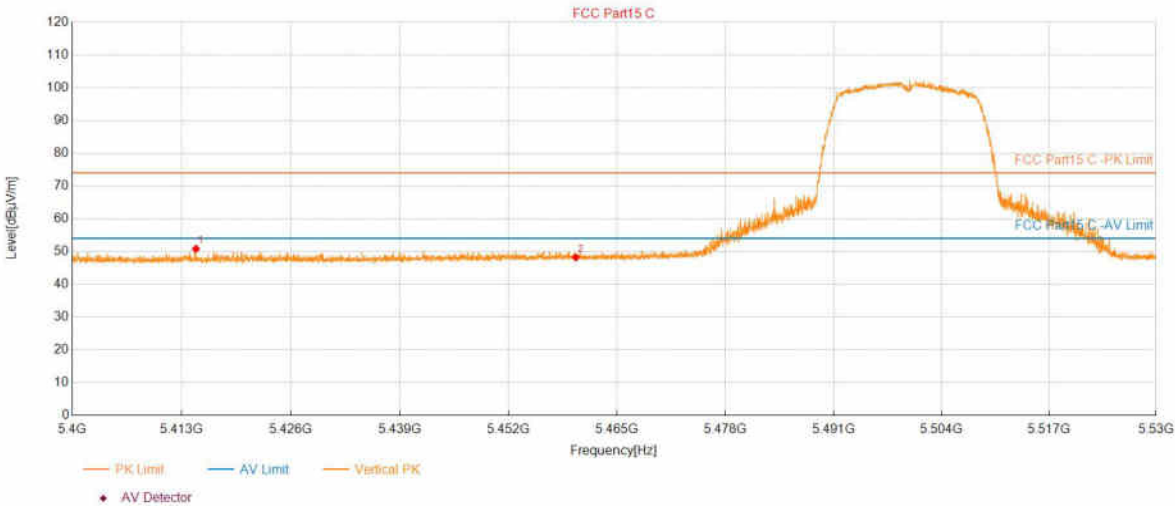
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5419.660	53.71	74.00	20.29	150	9	Horizontal
2	5460.020	51.20	74.00	22.80	150	360	Horizontal

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11N20_5500	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-24

Test Graph



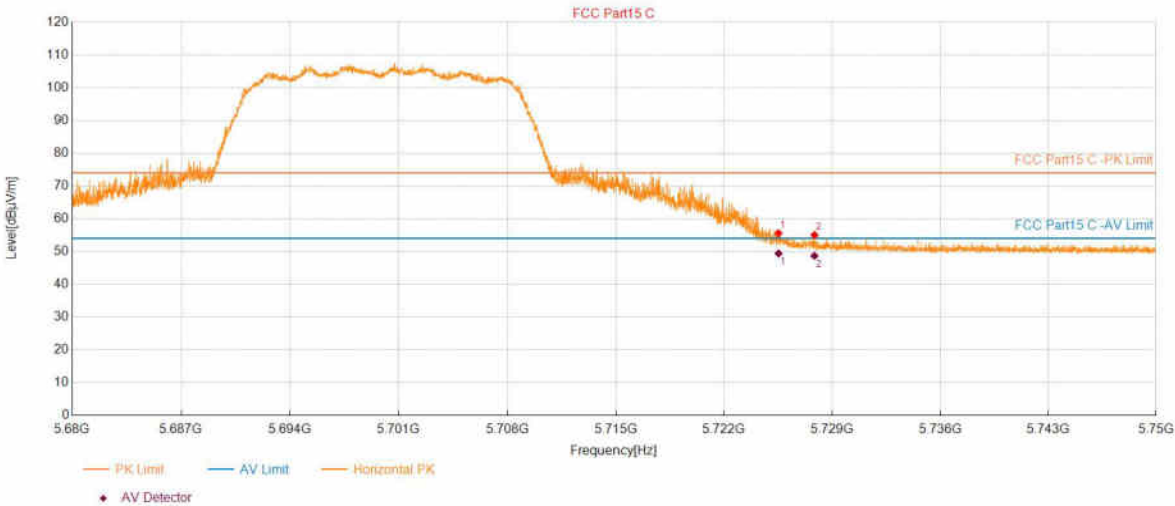
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5414.693	50.81	74.00	23.19	150	164	Vertical
2	5460.020	48.19	74.00	25.81	150	262	Vertical

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11N20_5700	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-24

Test Graph



Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5725.523	55.58	74.00	18.42	150	27	Horizontal
2	5727.848	55.05	74.00	18.95	150	27	Horizontal

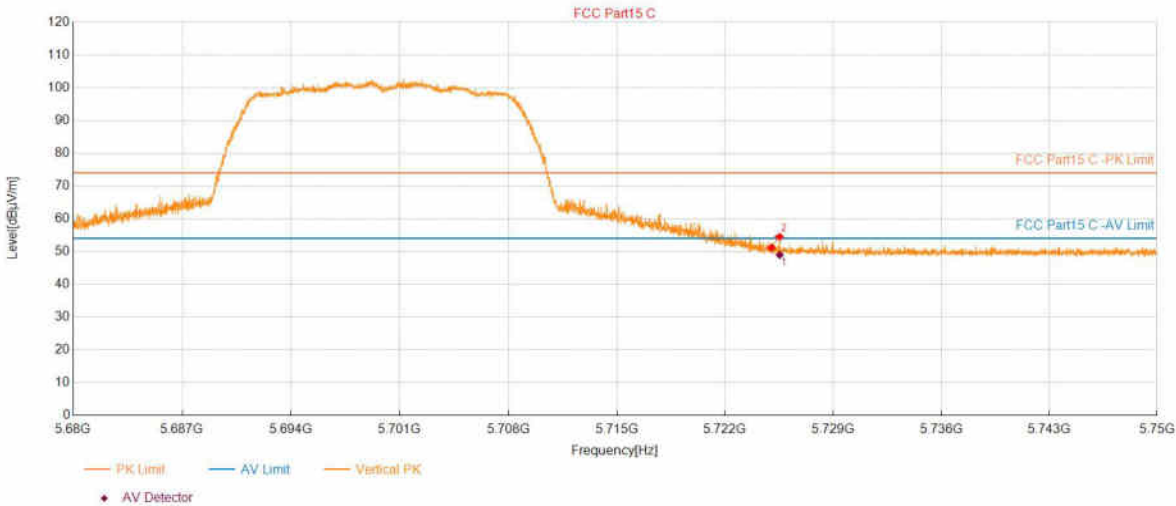
PK Final Data List							
NO	Frequency (MHz)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5725.525	49.42	54.00	4.58	139.2	26	Horizontal
2	5727.847	48.68	54.00	5.32	150	27	Horizontal

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11N20_5700	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-24

Test Graph



Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5725.005	51.21	74.00	22.79	150	271	Vertical
2	5725.537	54.51	74.00	19.49	150	111	Vertical

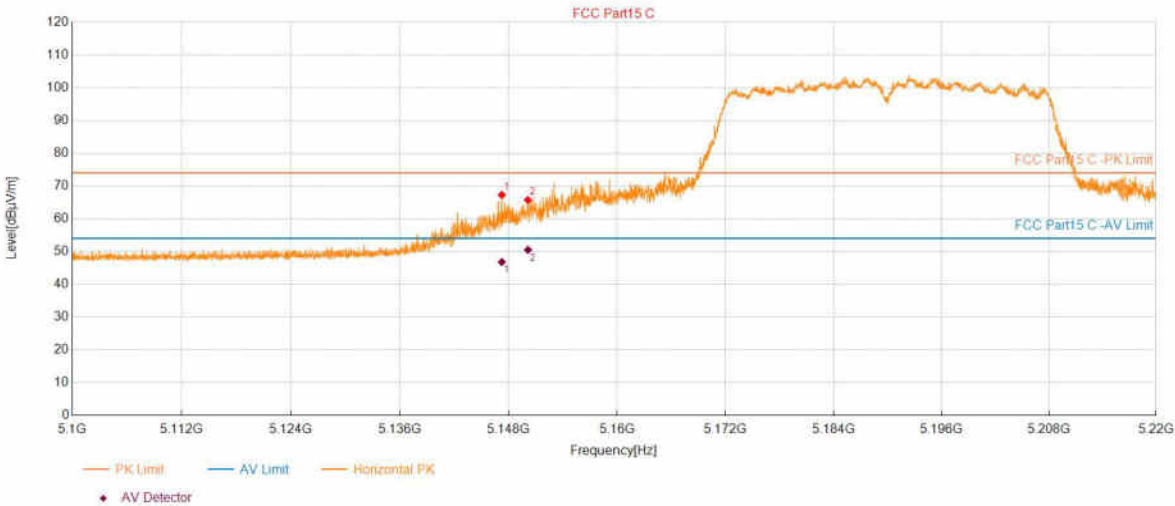
PK Final Data List							
NO	Frequency (MHz)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5725.537	48.97	54.00	5.03	150	111	Vertical

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11N40_5190	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-24

Test Graph



Suspected Data List

NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5147.241	67.27	74.00	6.73	150	320	Horizontal
2	5150.122	65.71	74.00	8.29	150	310	Horizontal

PK Final Data List

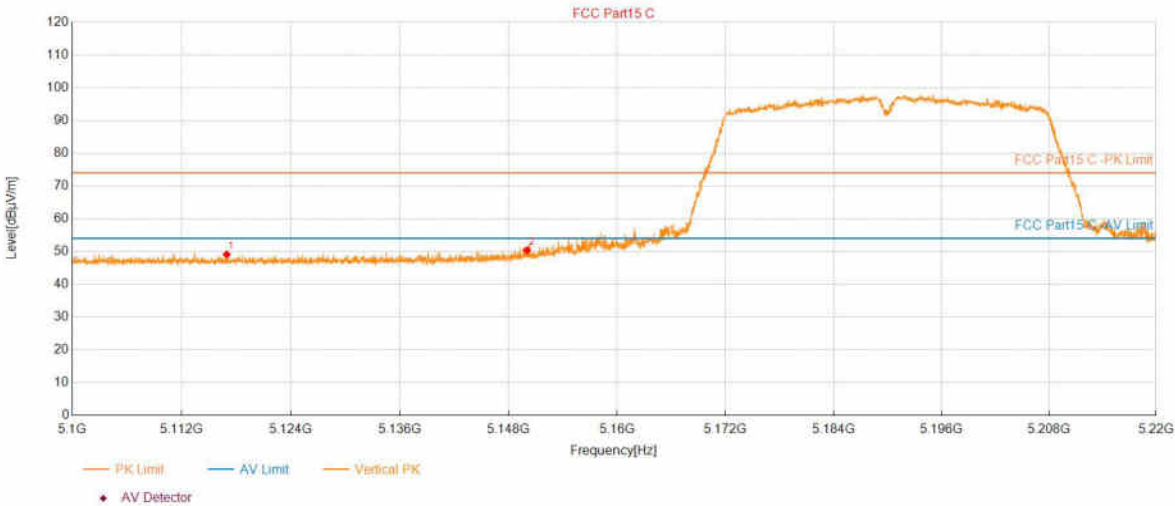
NO	Frequency (MHz)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5147.24051	46.82	54.00	7.18	130.1	325	Horizontal
2	5150.126347	50.50	54.00	3.50	137.5	320	Horizontal

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11N40_5190	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-24

Test Graph



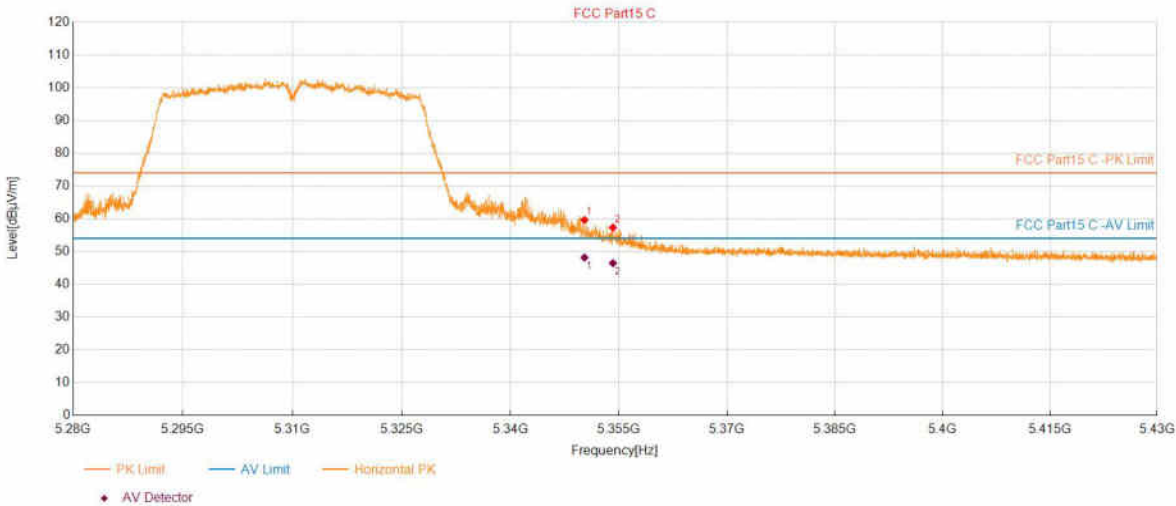
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5116.947	49.10	74.00	24.90	150	15	Vertical
2	5150.002	50.40	74.00	23.60	150	243	Vertical

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11N40_5310	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-24

Test Graph



Suspected Data List

NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5350.244	59.64	74.00	14.36	150	320	Horizontal
2	5354.175	57.29	74.00	16.71	150	353	Horizontal

PK Final Data List

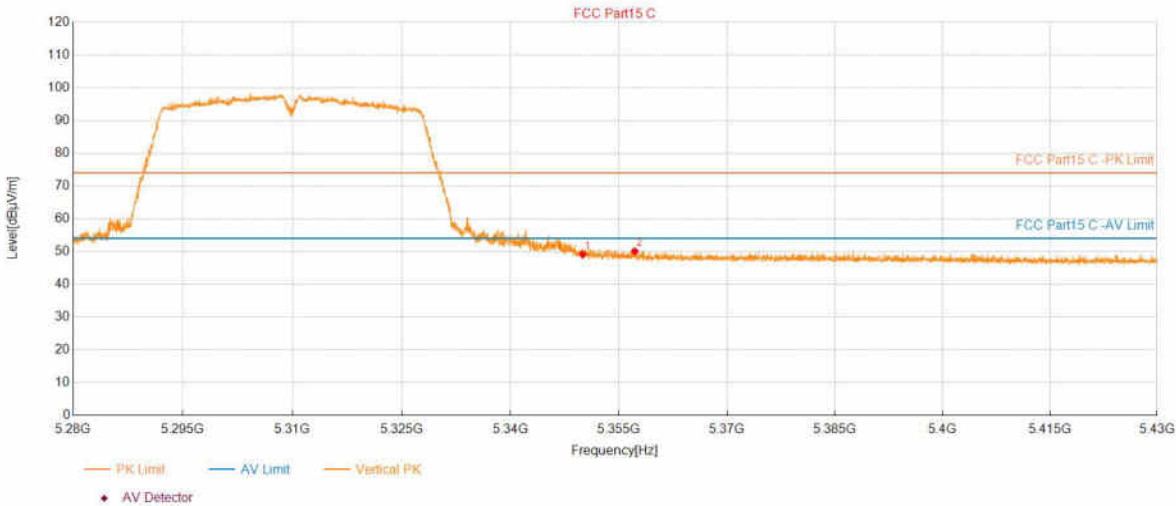
NO	Frequency (MHz)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5350.247	48.16	54.00	5.84	138.7	319	Horizontal
2	5354.174	46.45	54.00	7.55	150	353	Horizontal

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11N40_5310	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-24

Test Graph



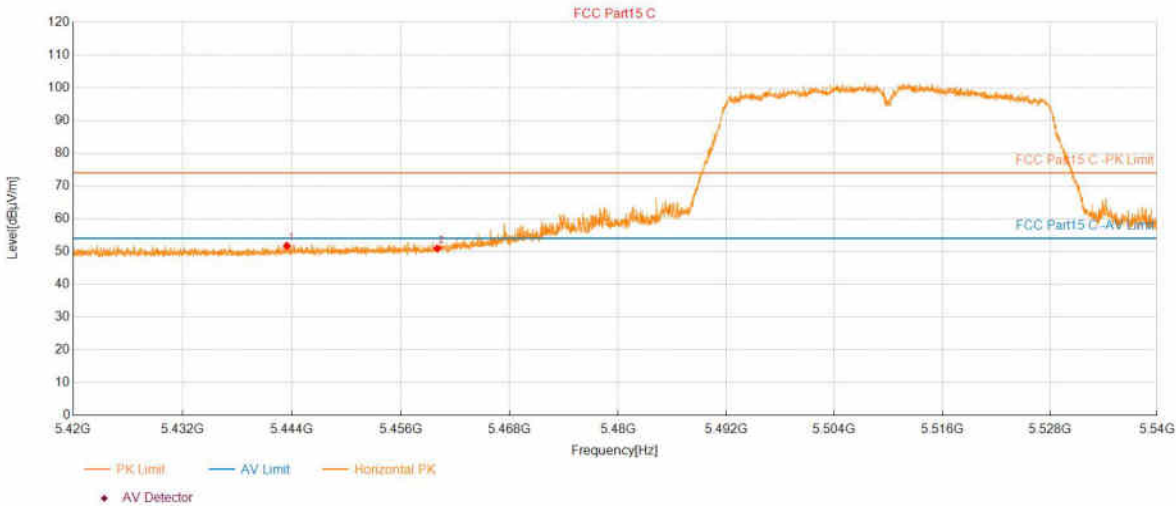
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5350.004	49.09	74.00	24.91	150	194	Vertical
2	5357.205	50.06	74.00	23.94	150	265	Vertical

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11N40_5510	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-24

Test Graph



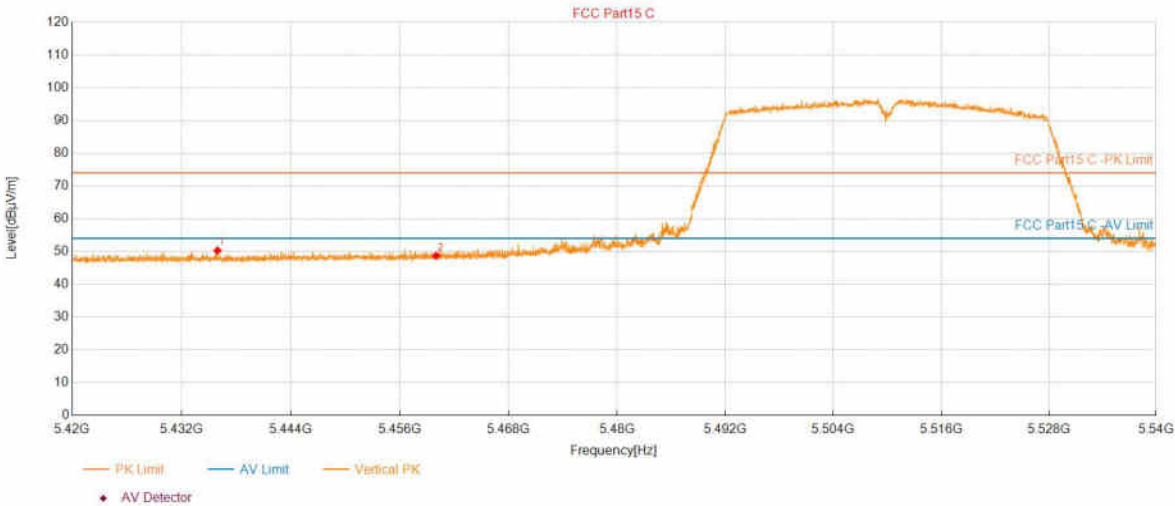
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5443.453	51.76	74.00	22.24	150	9	Horizontal
2	5460.016	50.92	74.00	23.08	150	360	Horizontal

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11N40_5510	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-24

Test Graph



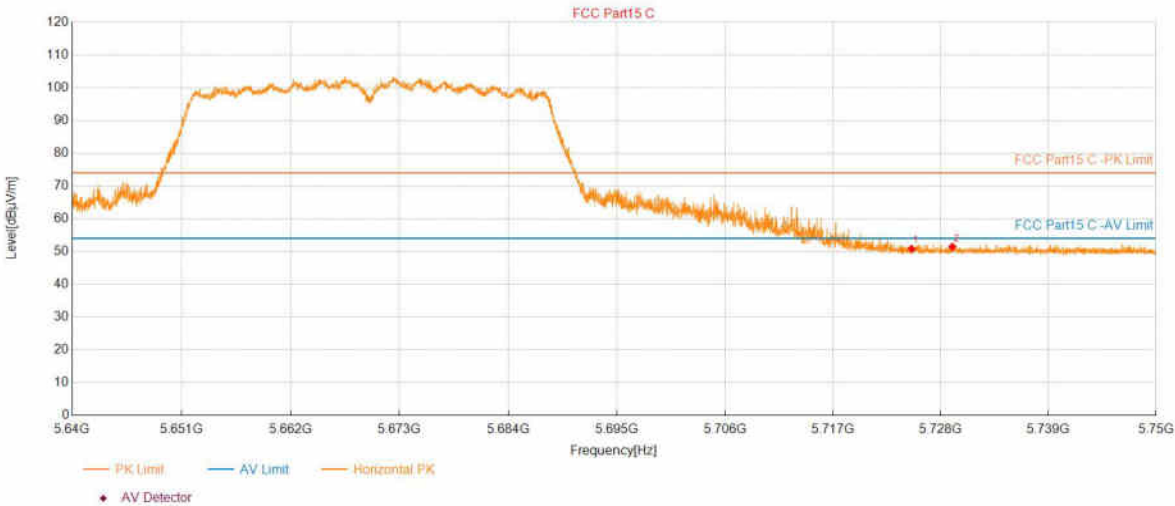
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5435.939	50.33	74.00	23.67	150	112	Vertical
2	5460.016	48.71	74.00	25.29	150	227	Vertical

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11N40_5670	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-24

Test Graph



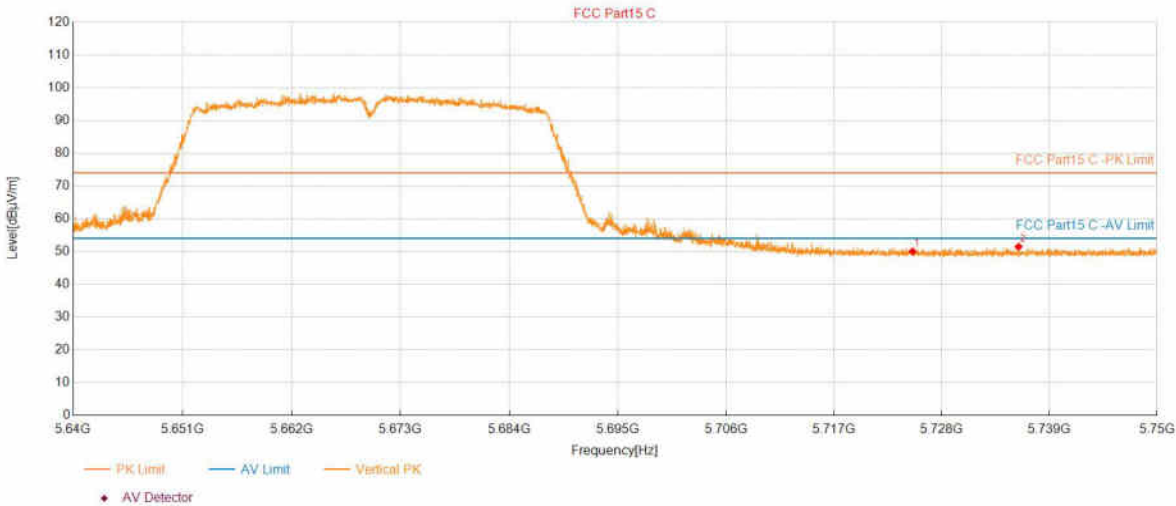
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5725.003	50.85	74.00	23.15	150	9	Horizontal
2	5729.162	51.45	74.00	22.55	150	241	Horizontal

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11N40_5670	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-24

Test Graph



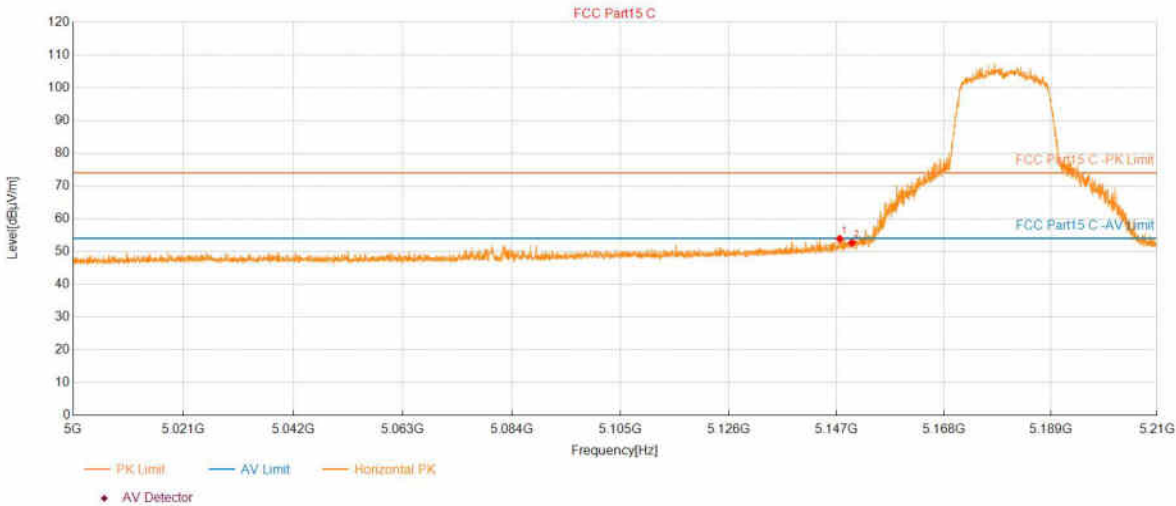
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5725.003	50.03	74.00	23.97	150	229	Vertical
2	5735.829	51.45	74.00	22.55	150	112	Vertical

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11AC20_5180	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-24

Test Graph



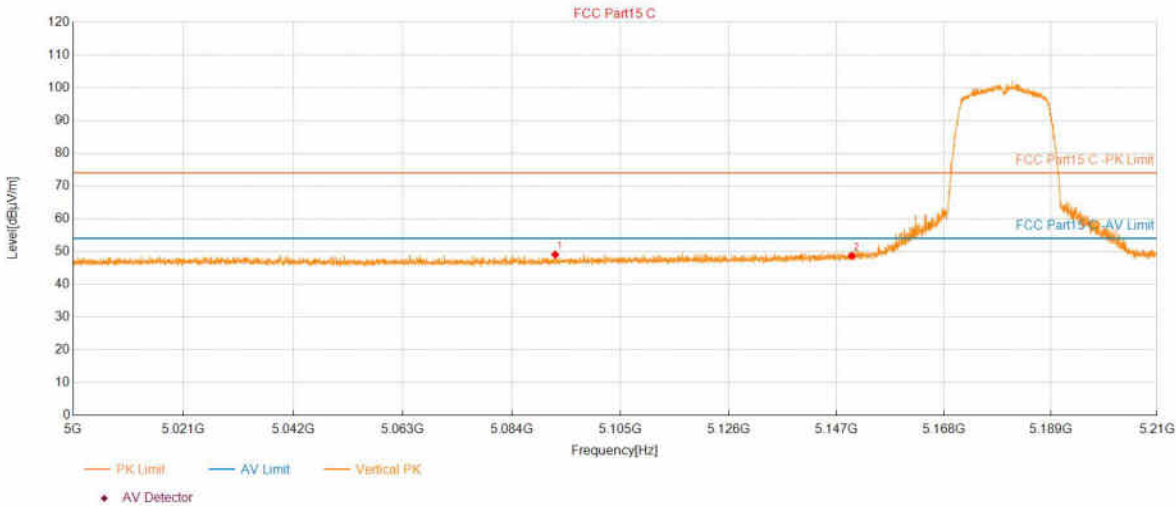
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5147.618	53.90	74.00	20.10	150	320	Horizontal
2	5150.012	52.65	74.00	21.35	150	360	Horizontal

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11AC20_5180	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-24

Test Graph



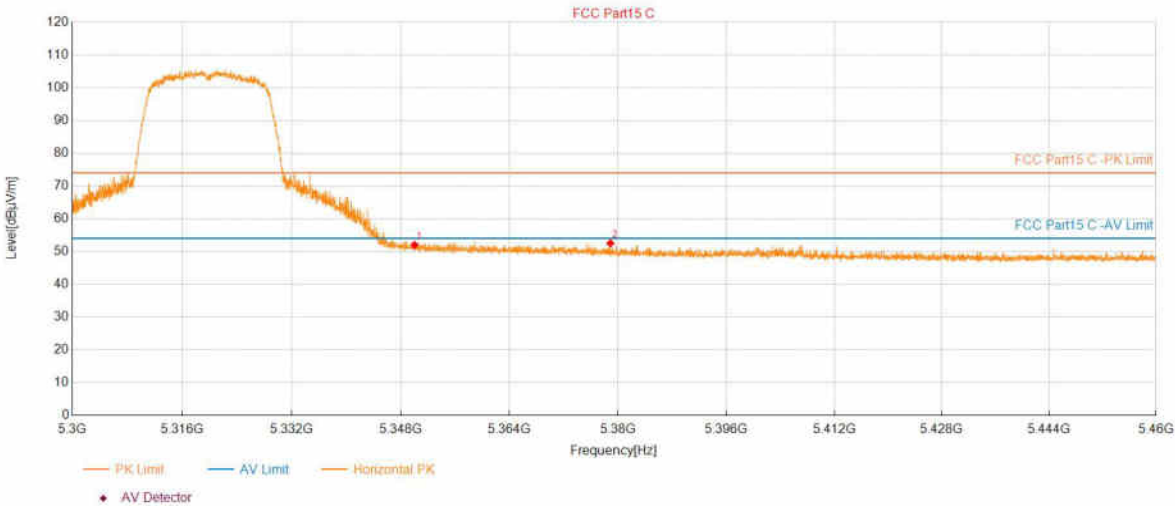
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5092.334	49.08	74.00	24.92	150	246	Vertical
2	5150.012	48.68	74.00	25.32	150	203	Vertical

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11AC20_5320	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-24

Test Graph



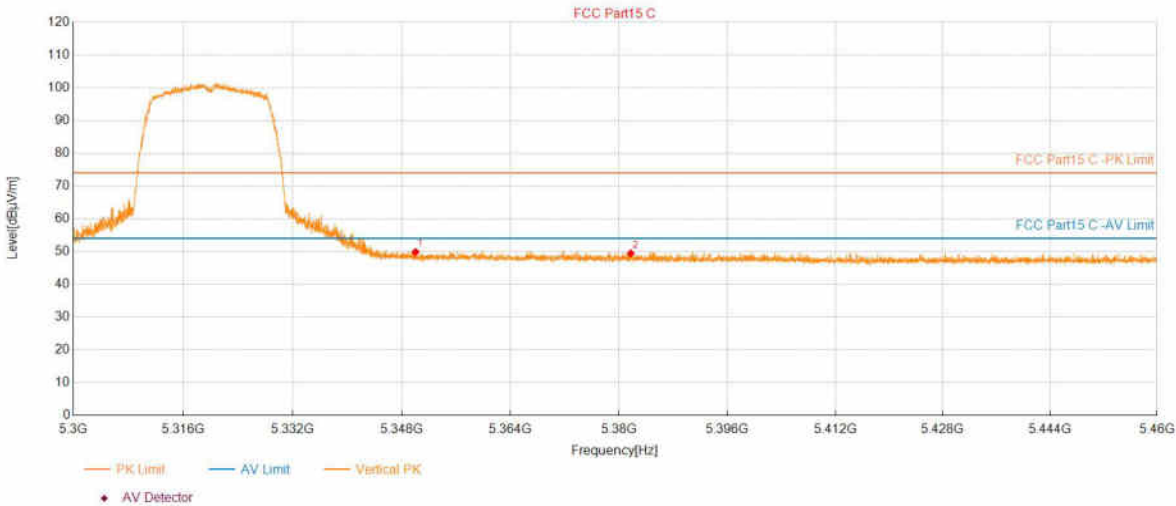
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5350.026	52.04	74.00	21.96	150	349	Horizontal
2	5378.864	52.51	74.00	21.49	150	359	Horizontal

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11AC20_5320	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-24

Test Graph



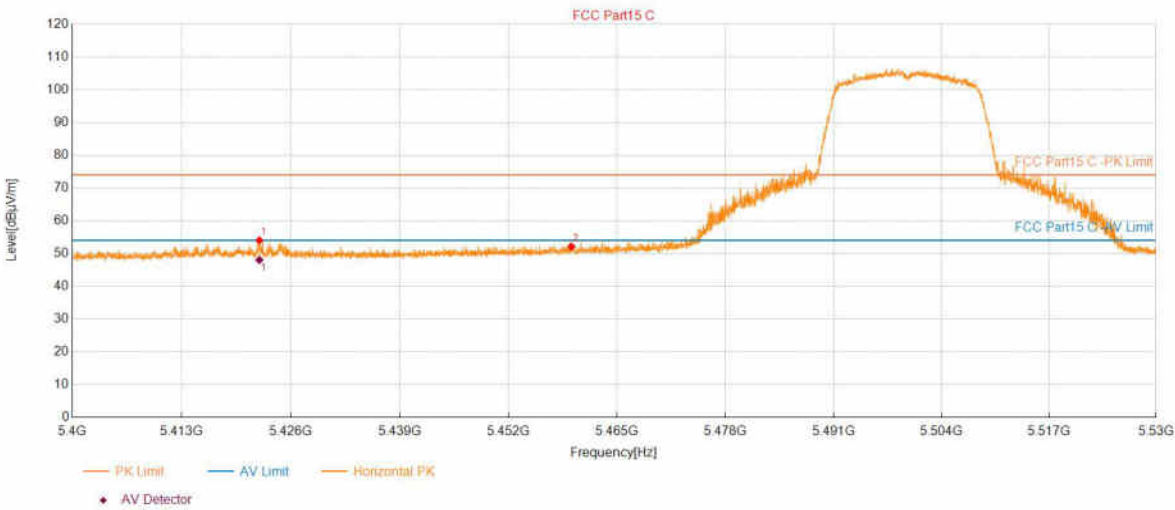
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5350.026	49.86	74.00	24.14	150	245	Vertical
2	5381.712	49.42	74.00	24.58	150	271	Vertical

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11AC20_5500	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-24

Test Graph



Suspected Data List

NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5422.234	54.01	74.00	19.99	150	360	Horizontal
2	5459.500	52.11	74.00	21.89	150	9	Horizontal

PK Final Data List

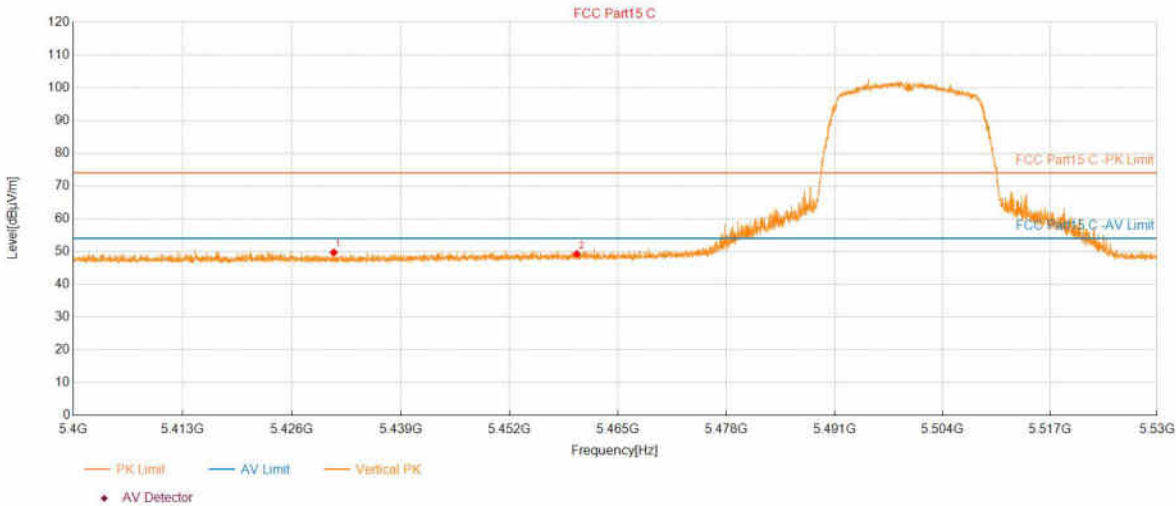
NO	Frequency (MHz)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5422.234	48.04	54.00	5.96	150	360	Horizontal

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11AC20_5500	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-24

Test Graph



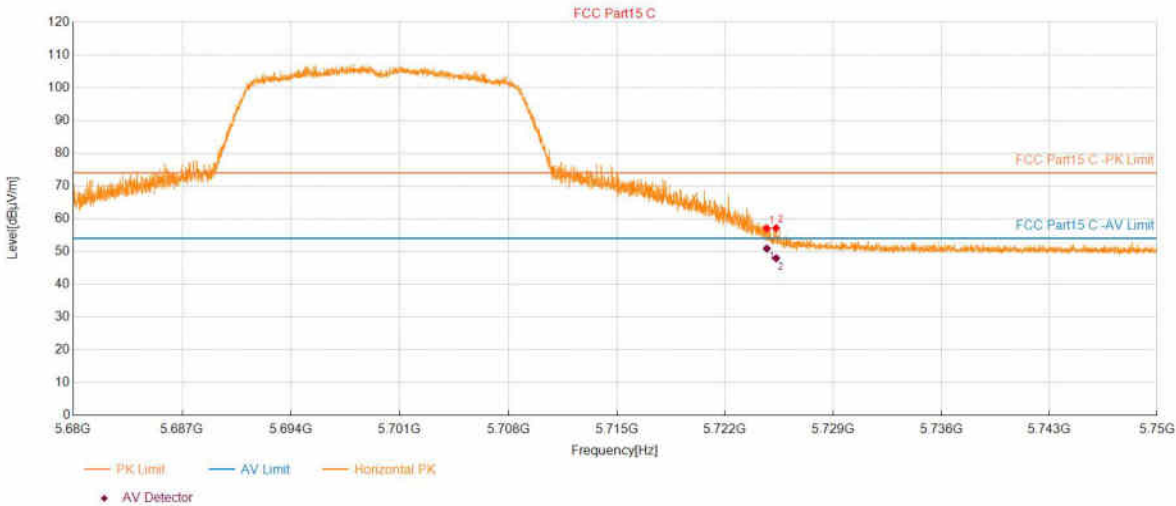
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5430.972	49.72	74.00	24.28	150	272	Vertical
2	5460.020	49.19	74.00	24.81	150	57	Vertical

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11AC20_5700	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-24

Test Graph



Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5724.697	57.06	74.00	16.94	150	26	Horizontal
2	5725.299	57.16	74.00	16.84	150	354	Horizontal

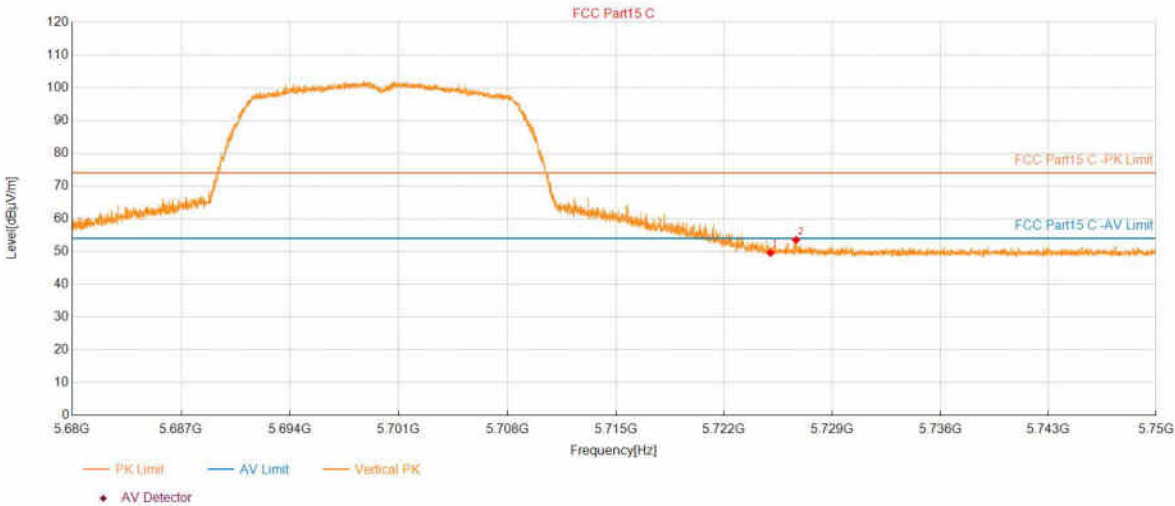
PK Final Data List							
NO	Frequency (MHz)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5724.700	50.90	54.00	3.10	138.3	26	Horizontal
2	5725.303	47.96	54.00	6.04	138.7	25	Horizontal

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11AC20_5700	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-24

Test Graph



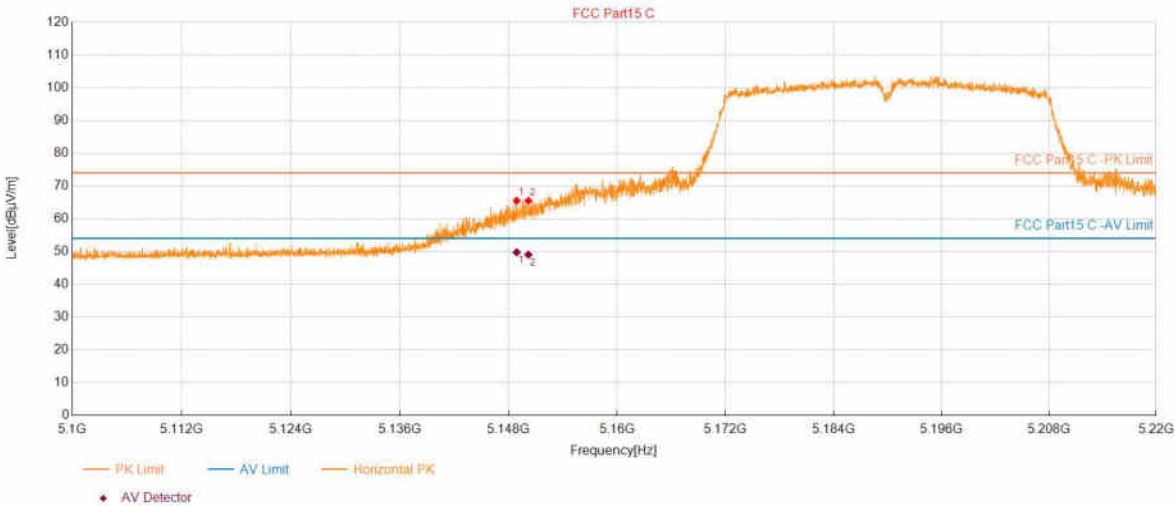
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5725.005	49.59	74.00	24.41	150	222	Vertical
2	5726.657	53.53	74.00	20.47	150	106	Vertical

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11AC40_5190	Voltage:	DC 3.3V
Environment:	Temp: 25℃；Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-24

Test Graph



Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5148.874	65.51	74.00	8.49	150	320	Horizontal
2	5150.170	65.47	74.00	8.53	150	320	Horizontal

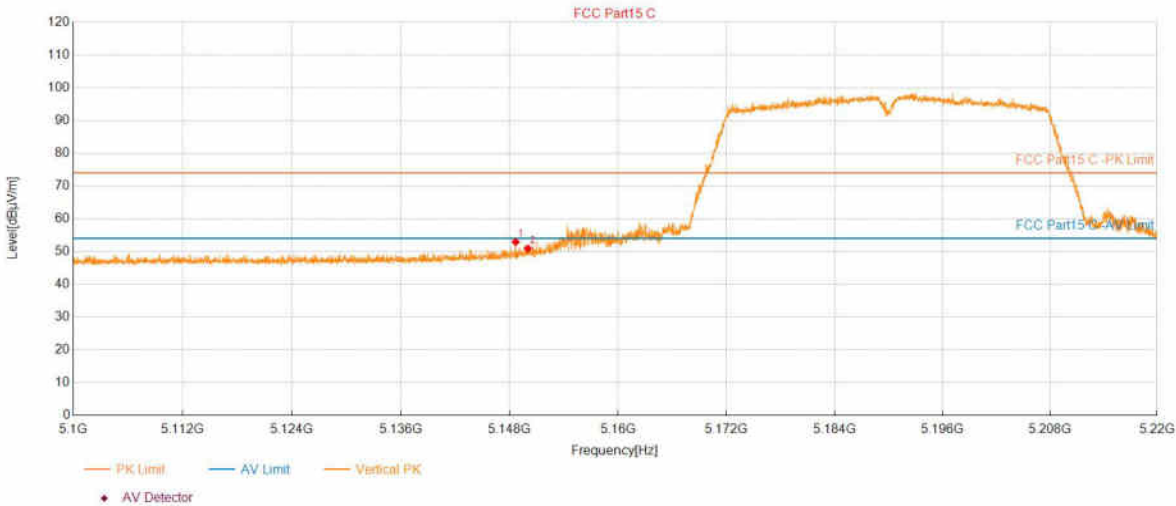
PK Final Data List							
NO	Frequency (MHz)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5148.873	49.75	54.00	4.25	150	320	Horizontal
2	5150.169	49.05	54.00	4.95	145.9	322	Horizontal

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11AC40_5190	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-24

Test Graph



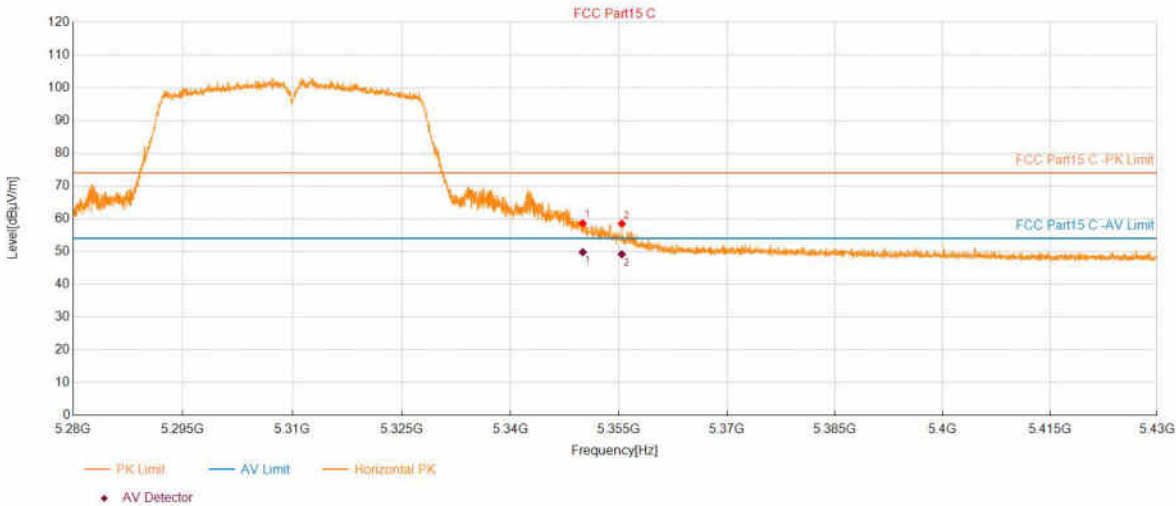
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5148.658	52.91	74.00	21.09	150	51	Vertical
2	5150.002	50.90	74.00	23.10	150	51	Vertical

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11AC40_5310	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-24

Test Graph



Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5350.004	58.58	74.00	15.42	150	0	Horizontal
2	5355.405	58.48	74.00	15.52	150	351	Horizontal

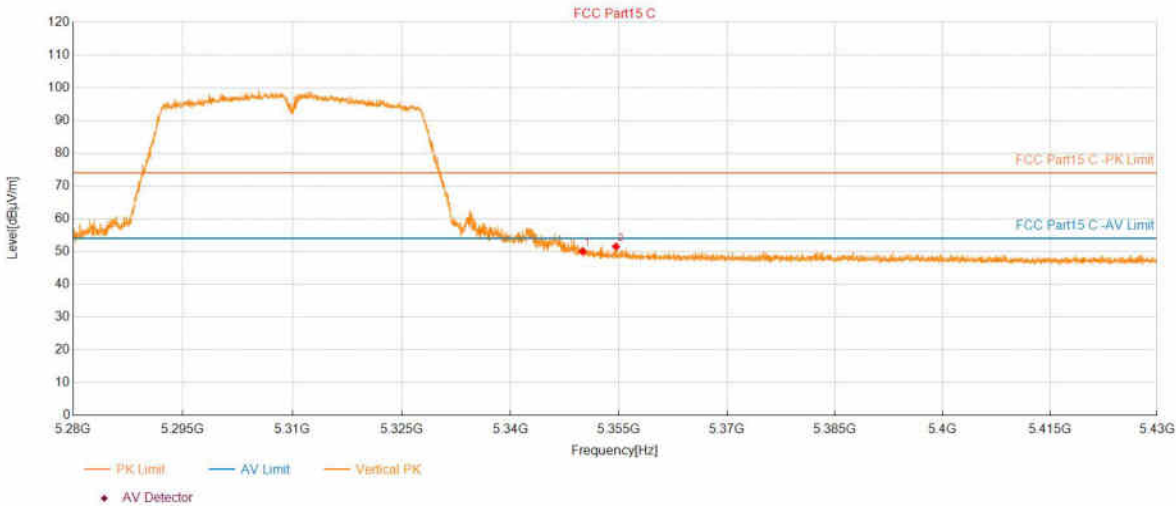
PK Final Data List							
NO	Frequency (MHz)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5350.004	49.77	54.00	4.23	150	0	Horizontal
2	5355.405	49.18	54.00	4.82	150	351	Horizontal

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11AC40_5310	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-24

Test Graph



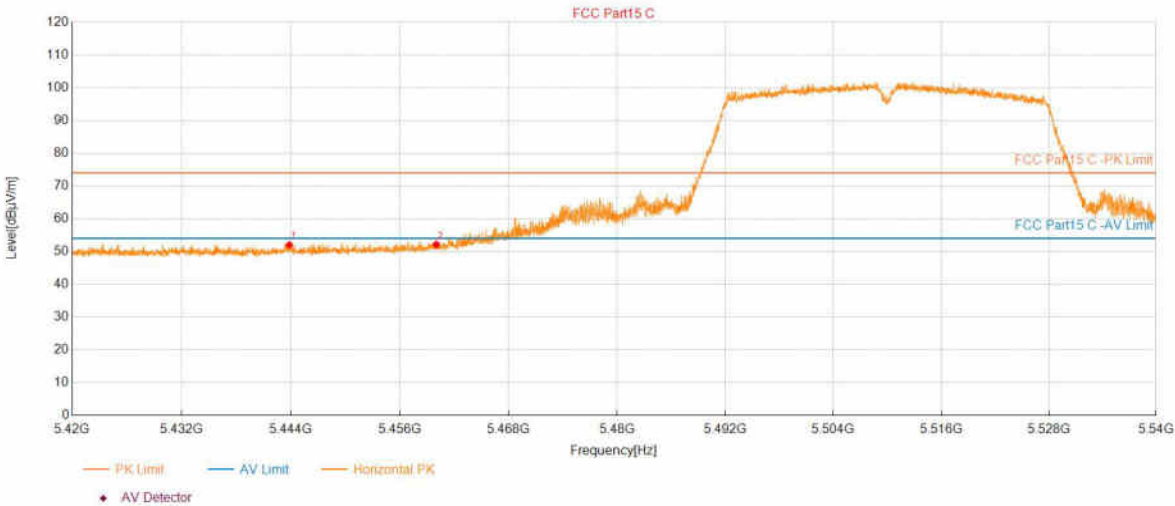
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5350.004	50.05	74.00	23.95	150	166	Vertical
2	5354.595	51.50	74.00	22.50	150	166	Vertical

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11AC40_5510	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-24

Test Graph



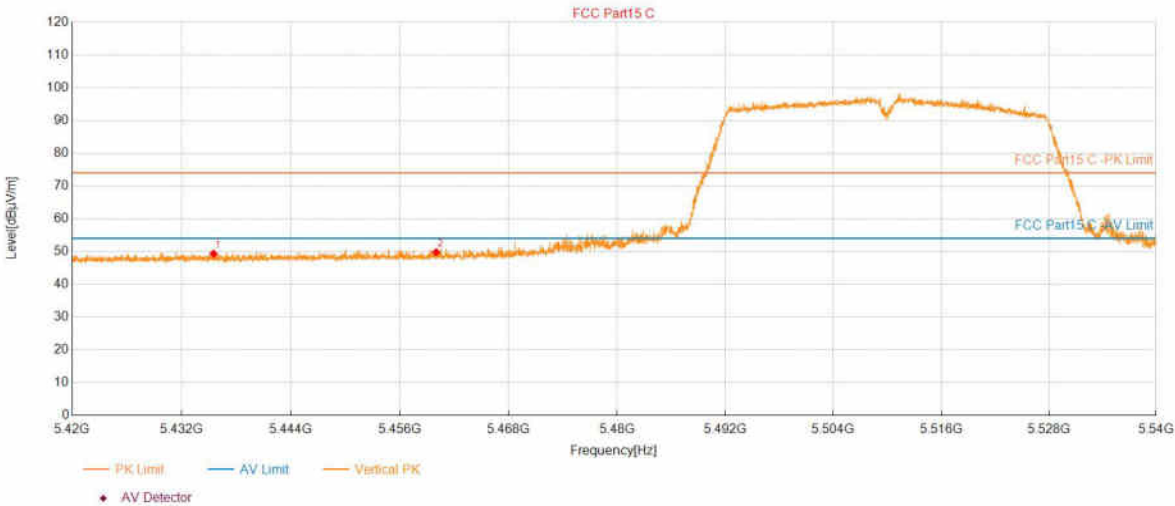
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5443.837	52.01	74.00	21.99	150	359	Horizontal
2	5460.016	52.15	74.00	21.85	150	339	Horizontal

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11AC40_5510	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-24

Test Graph



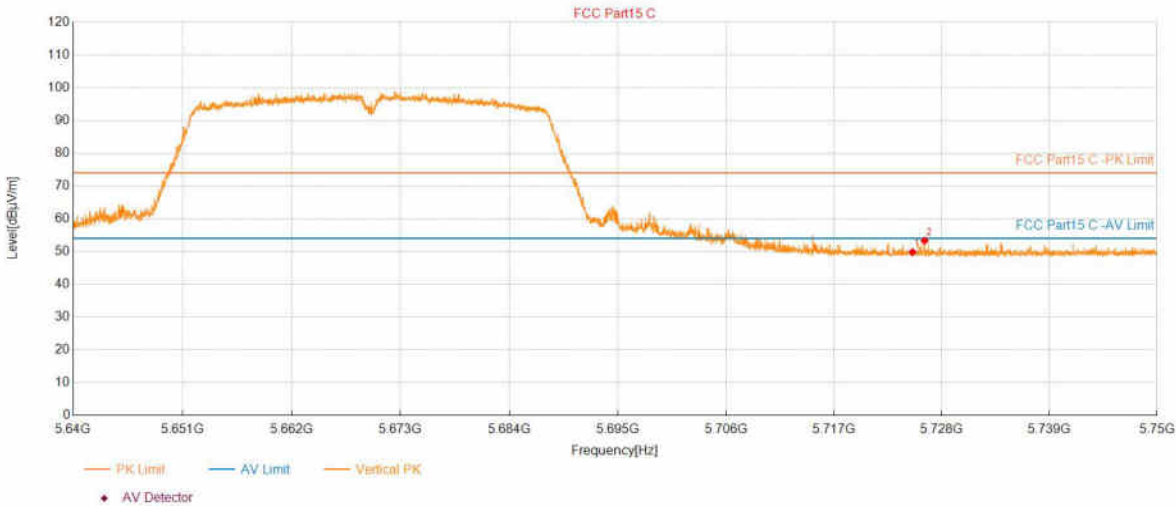
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5435.507	49.33	74.00	24.67	150	0	Vertical
2	5460.016	49.80	74.00	24.20	150	86	Vertical

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11AC40_5670	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-24

Test Graph



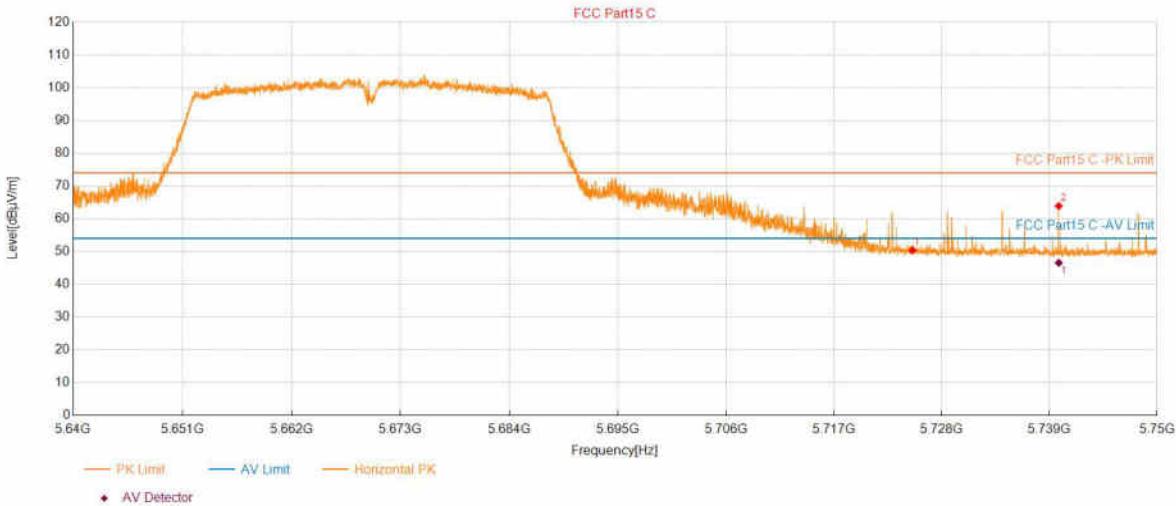
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5725.003	49.82	74.00	24.18	150	0	Vertical
2	5726.235	53.32	74.00	20.68	150	138	Vertical

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11AC40_5670	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-24

Test Graph



Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5725.003	50.39	74.00	23.61	150	16	Horizontal
2	5739.944	63.88	74.00	10.12	150	16	Horizontal

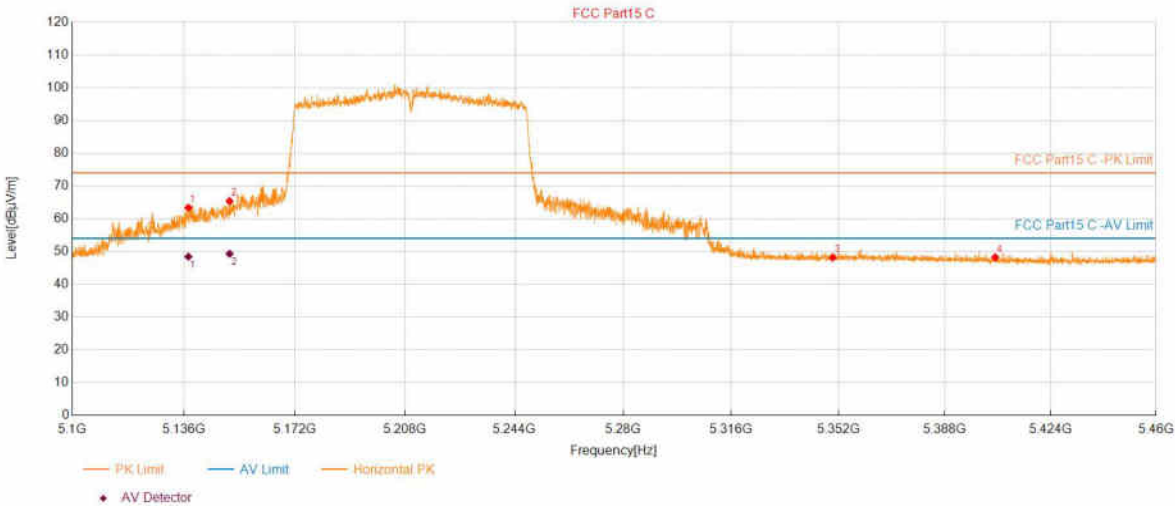
PK Final Data List							
NO	Frequency (MHz)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5739.945	46.56	54.00	7.44	130.1	24	Horizontal

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11AC80_5210	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-24

Test Graph



Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5137.447	63.37	74.00	10.63	150	321	Horizontal
2	5150.770	65.38	74.00	8.62	150	321	Horizontal
3	5350.034	48.14	74.00	25.86	150	358	Horizontal
4	5405.053	48.25	74.00	25.75	150	294	Horizontal

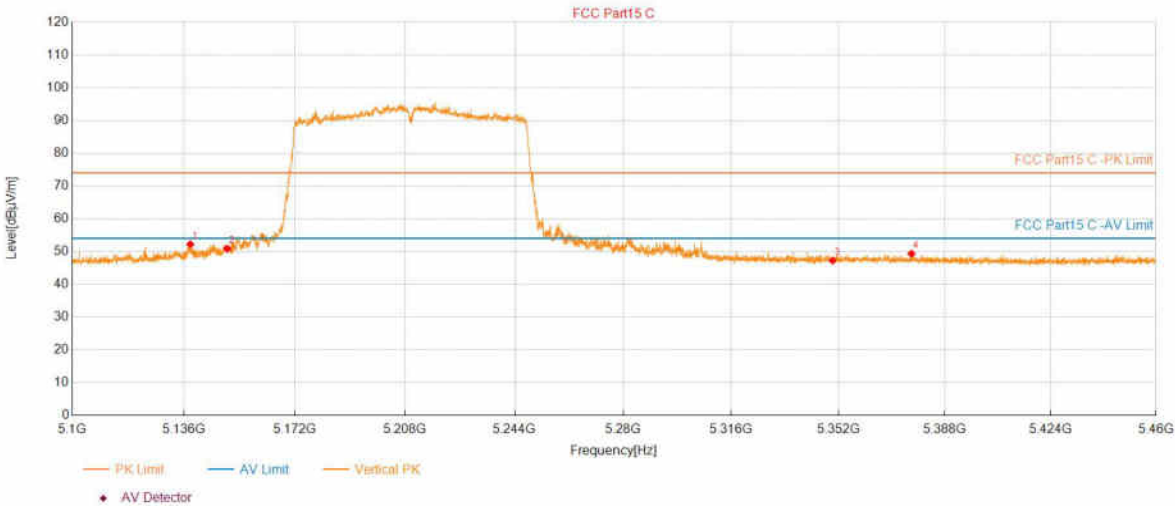
PK Final Data List							
NO	Frequency (MHz)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5137.447	48.44	54.00	5.56	150	321	Horizontal
2	5150.772	49.32	54.00	4.68	130.1	319	Horizontal

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11AC80_5210	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-24

Test Graph



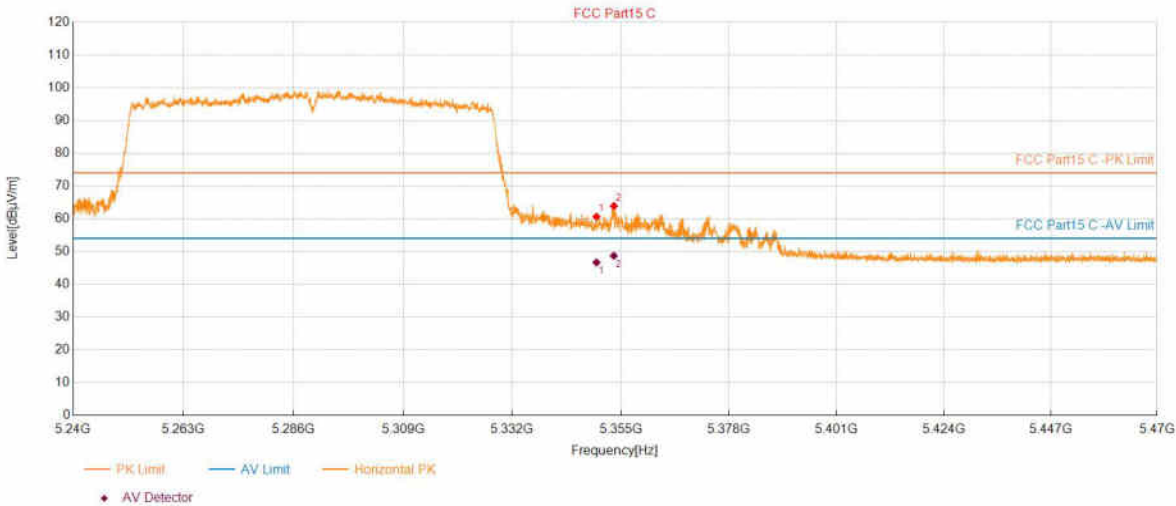
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5138.096	52.21	74.00	21.79	150	171	Vertical
2	5150.050	50.85	74.00	23.15	150	257	Vertical
3	5350.034	47.25	74.00	26.75	150	45	Vertical
4	5376.607	49.34	74.00	24.66	150	45	Vertical

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11AC80_5290	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-24

Test Graph



Suspected Data List

NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5349.824	60.62	74.00	13.38	150	317	Horizontal
2	5353.505	63.88	74.00	10.12	150	356	Horizontal

PK Final Data List

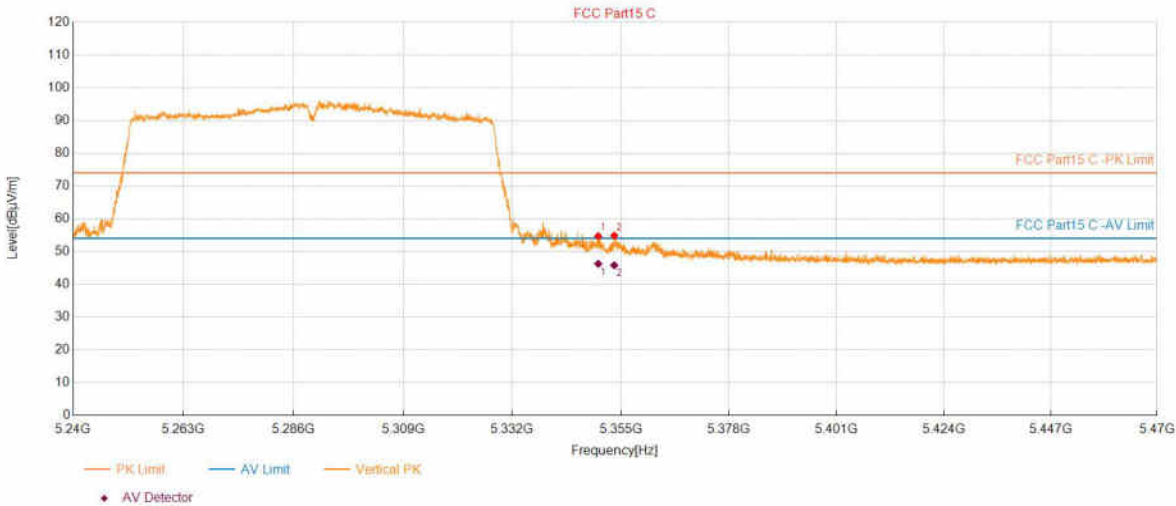
NO	Frequency (MHz)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5349.827	46.67	54.00	7.33	136.7	322	Horizontal
2	5353.499	48.70	54.00	5.30	138.3	355	Horizontal

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11AC80_5290	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-24

Test Graph



Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5350.192	54.69	74.00	19.31	150	163	Vertical
2	5353.597	54.86	74.00	19.14	150	163	Vertical

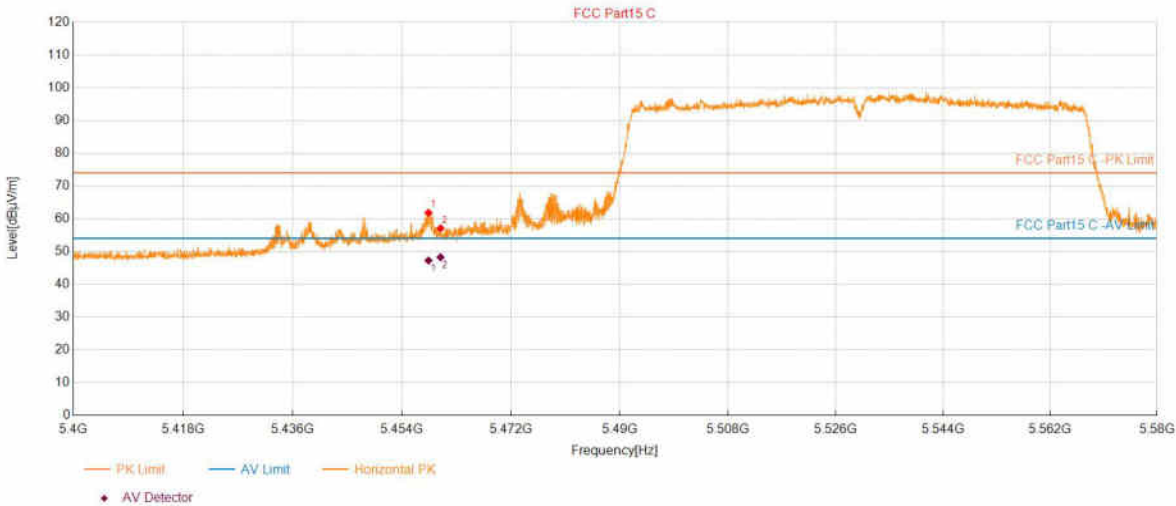
PK Final Data List							
NO	Frequency (MHz)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5350.192	46.25	54.00	7.75	150	163	Vertical
2	5353.596	45.78	54.00	8.22	150	163	Vertical

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11AC80_5530	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-25

Test Graph



Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5458.368	61.80	74.00	12.20	150	23	Horizontal
2	5460.348	57.07	74.00	16.93	150	169	Horizontal

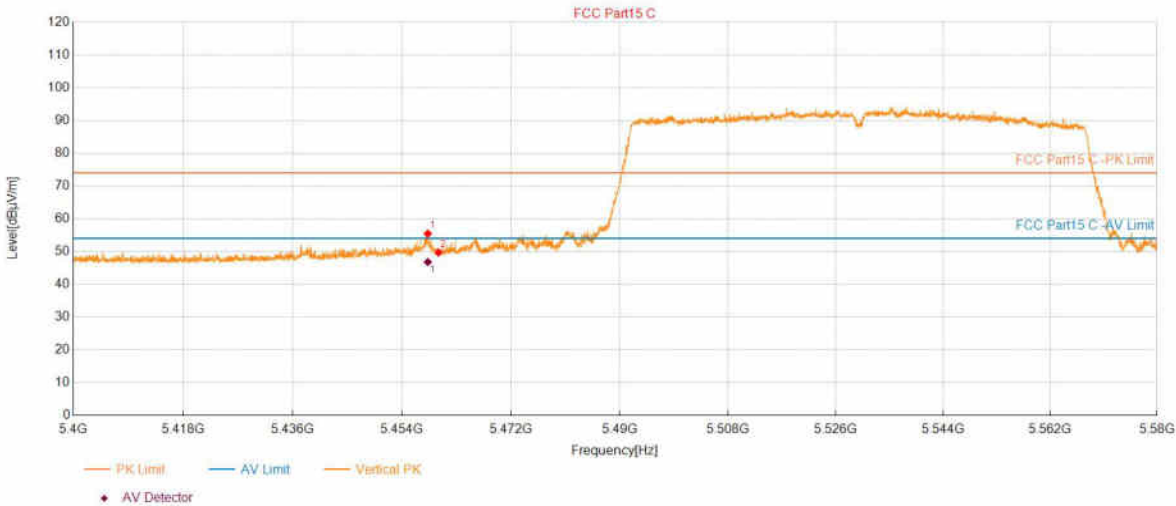
PK Final Data List							
NO	Frequency (MHz)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5458.372	47.26	54.00	6.74	138.3	174	Horizontal
2	5460.343	48.26	54.00	5.74	139.2	174	Horizontal

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11AC80_5530	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-25

Test Graph



Suspected Data List

NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5458.260	55.46	74.00	18.54	150	110	Vertical
2	5460.024	49.67	74.00	24.33	150	115	Vertical

PK Final Data List

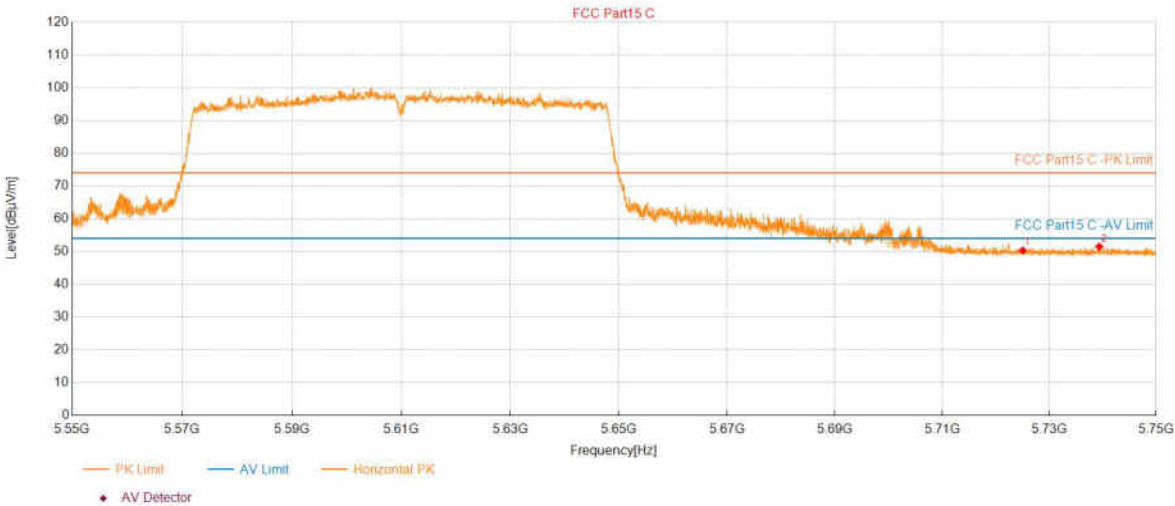
NO	Frequency (MHz)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5458.259	46.81	54.00	7.19	150	110	Vertical

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11AC80_5610	Voltage:	DC 3.3V
Environment:	Temp: 25℃；Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-25

Test Graph



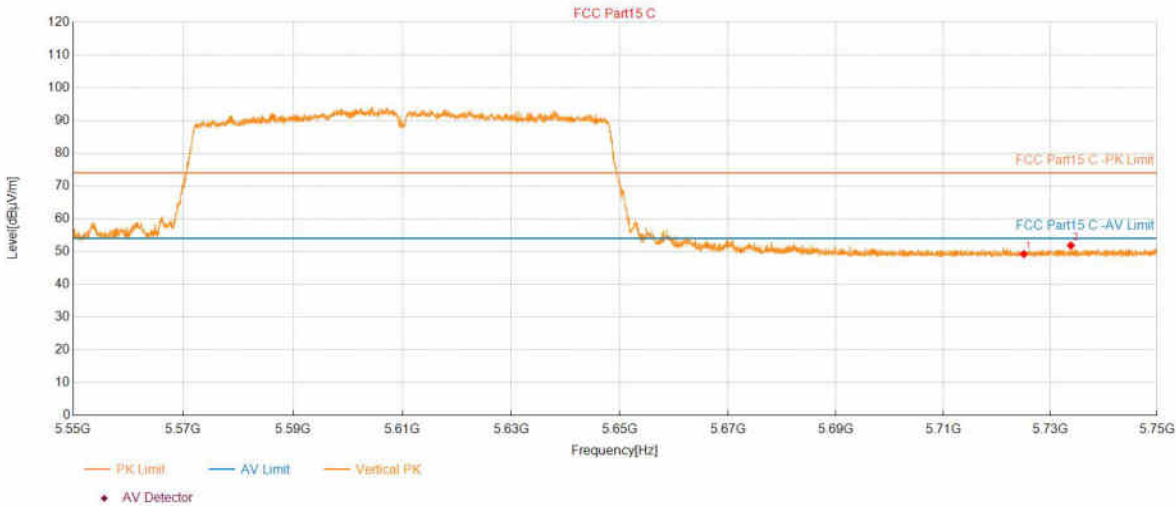
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5725.035	50.32	74.00	23.68	150	337	Horizontal
2	5739.358	51.48	74.00	22.52	150	360	Horizontal

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11AC80_5610	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15C AV			

Start of Test:2024-06-25

Test Graph



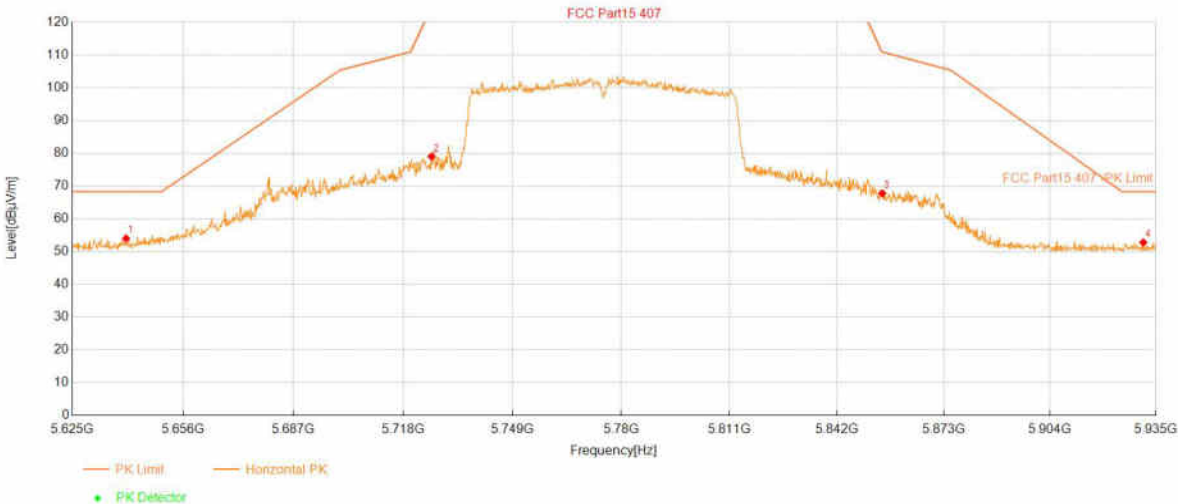
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5725.035	49.22	74.00	24.78	150	131	Vertical
2	5733.837	51.86	74.00	22.14	150	104	Vertical

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11AC80_5775	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:	Power Set: 15		
Test Standard: FCC Part15 407 PK			

Start of Test:2024-06-25

Test Graph



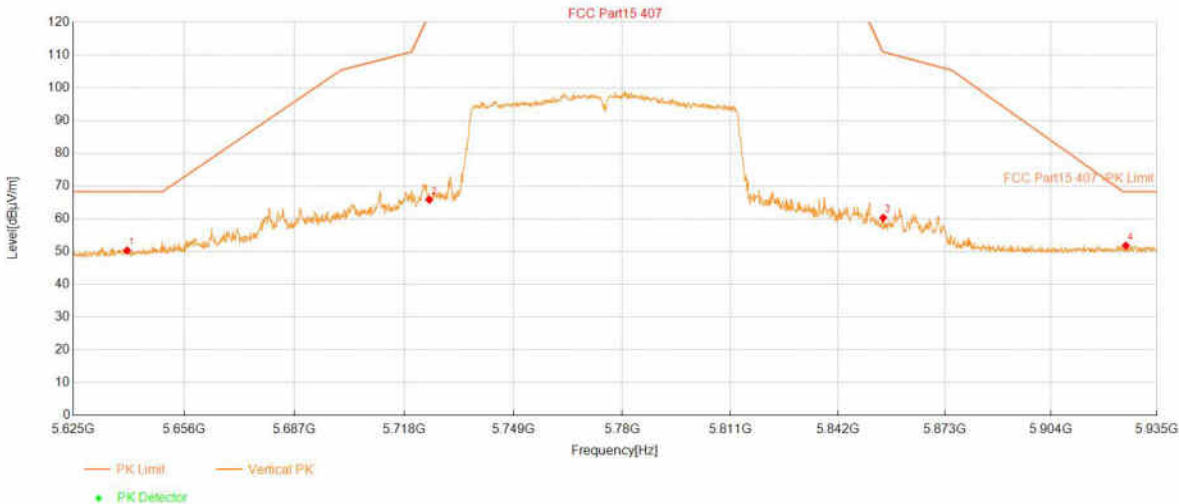
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5640.04	53.99	68.30	14.31	150	170	Horizontal
2	5725.00	78.98	122.30	43.32	150	29	Horizontal
3	5855.14	67.73	110.86	43.13	150	29	Horizontal
4	5931.28	52.77	68.30	15.53	150	178	Horizontal

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11AC80_5775	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:	Power Set: 15		
Test Standard: FCC Part15 407 PK			

Start of Test:2024-06-25

Test Graph



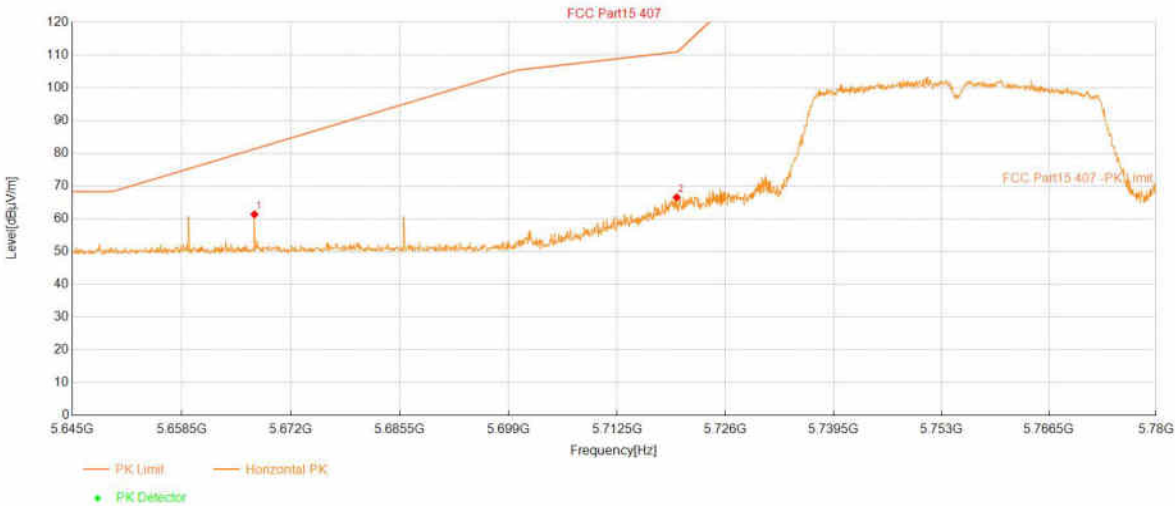
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5640.04	50.34	68.30	17.96	150	215	Vertical
2	5725.00	65.82	122.30	56.48	150	215	Vertical
3	5855.14	60.28	110.86	50.58	150	108	Vertical
4	5925.85	51.83	68.30	16.47	150	357	Vertical

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11AC40_5755	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:	Power Set: 16		
Test Standard: FCC Part15 407 PK			

Start of Test:2024-06-25

Test Graph



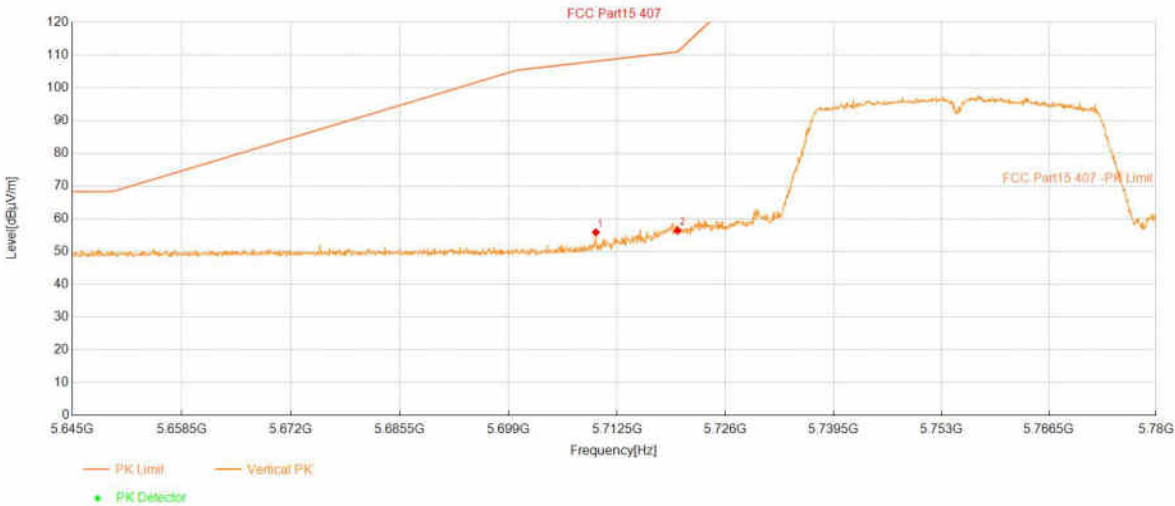
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5667.49	61.33	81.28	19.95	150	359	Horizontal
2	5719.89	66.53	110.87	44.34	150	20	Horizontal

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11AC40_5755	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:	Power Set: 16		
Test Standard: FCC Part15 407 PK			

Start of Test:2024-06-25

Test Graph



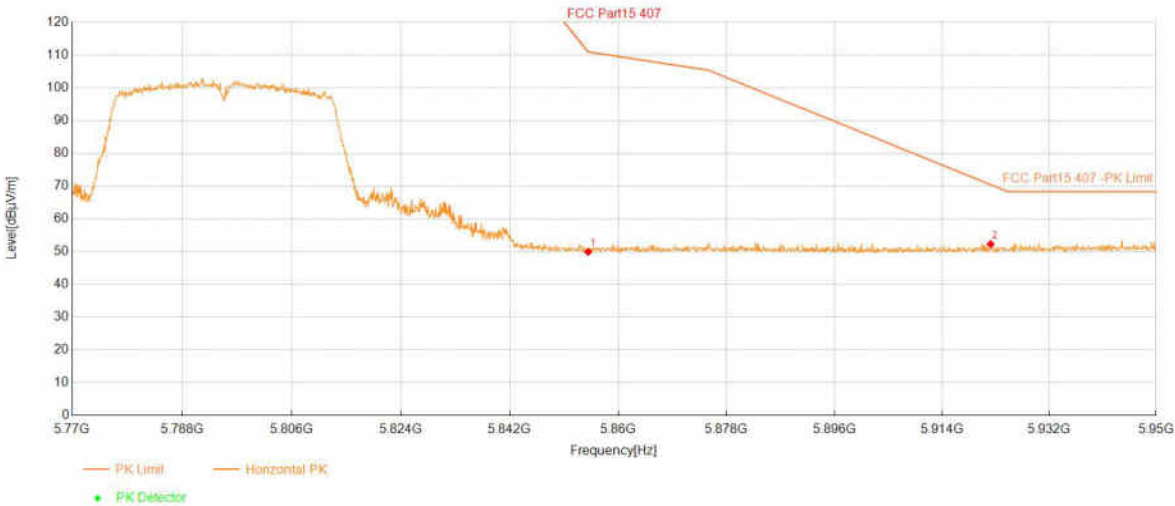
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5709.83	55.86	108.06	52.20	150	100	Vertical
2	5720.03	56.40	110.97	54.57	150	107	Vertical

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11AC40_5795	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:	Power Set: 16		
Test Standard: FCC Part15 407 PK			

Start of Test:2024-06-25

Test Graph



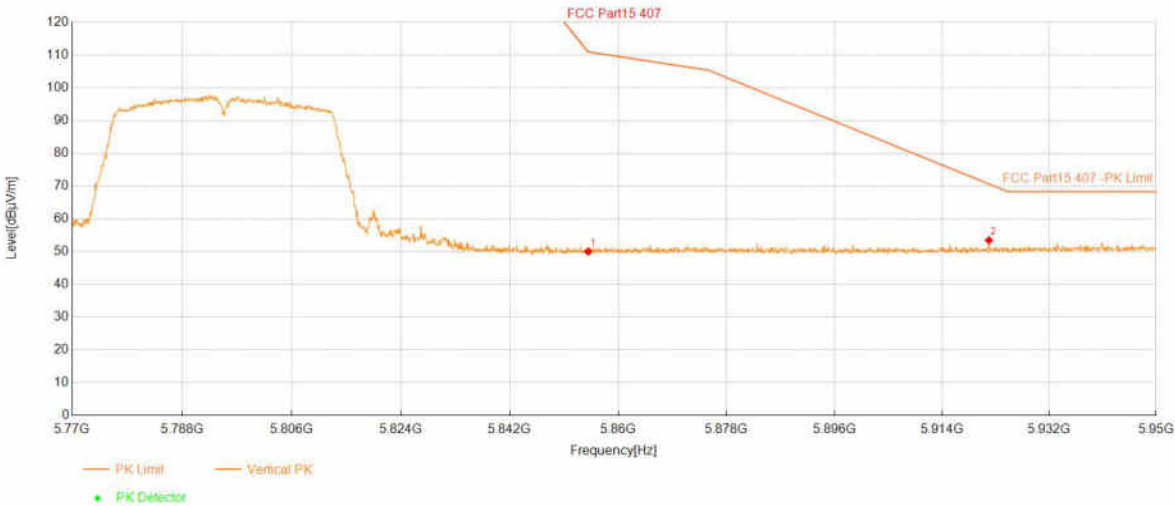
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5855.00	49.92	110.90	60.98	150	359	Horizontal
2	5922.18	52.24	70.38	18.14	150	341	Horizontal

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11AC40_5795	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:	Power Set: 16		
Test Standard: FCC Part15 407 PK			

Start of Test:2024-06-25

Test Graph



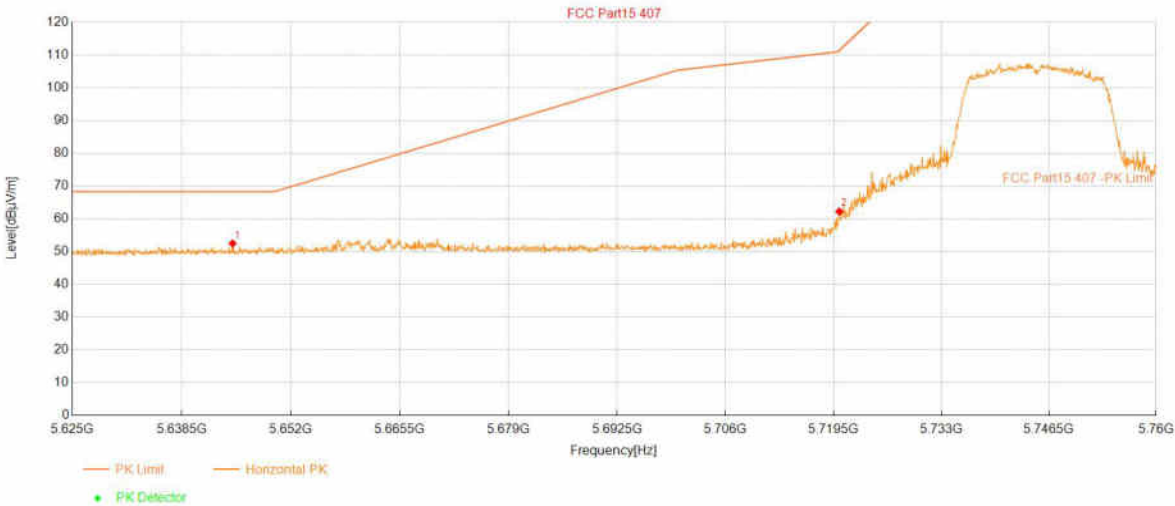
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5855.00	49.99	110.90	60.91	150	303	Vertical
2	5921.91	53.45	70.58	17.13	150	99	Vertical

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11AC20_5745	Voltage:	DC 3.3V
Environment:	Temp: 25℃；Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15 407 PK			

Start of Test:2024-06-25

Test Graph



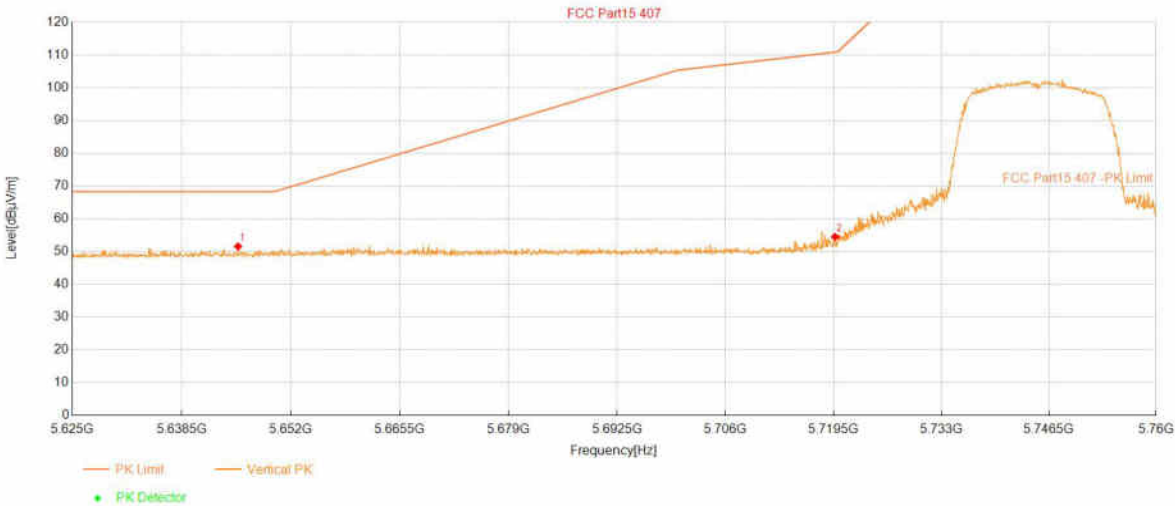
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5644.79	52.46	68.30	15.84	150	30	Horizontal
2	5720.22	62.23	111.41	49.18	150	21	Horizontal

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11AC20_5745	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15 407 PK			

Start of Test:2024-06-25

Test Graph



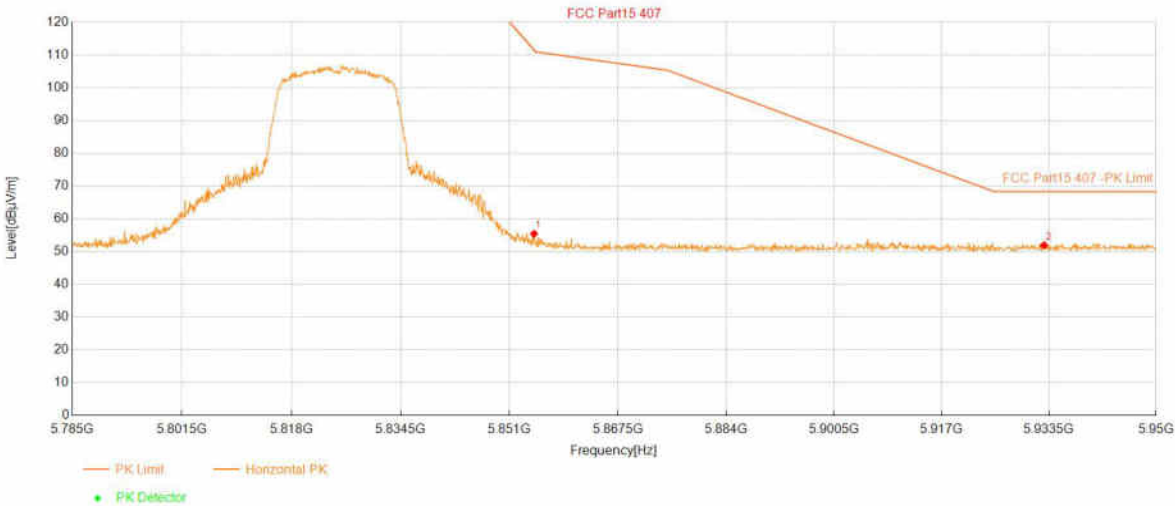
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5645.46	51.54	68.30	16.76	150	51	Vertical
2	5719.68	54.46	110.81	56.35	150	216	Vertical

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11AC20_5825	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15 407 PK			

Start of Test:2024-06-25

Test Graph



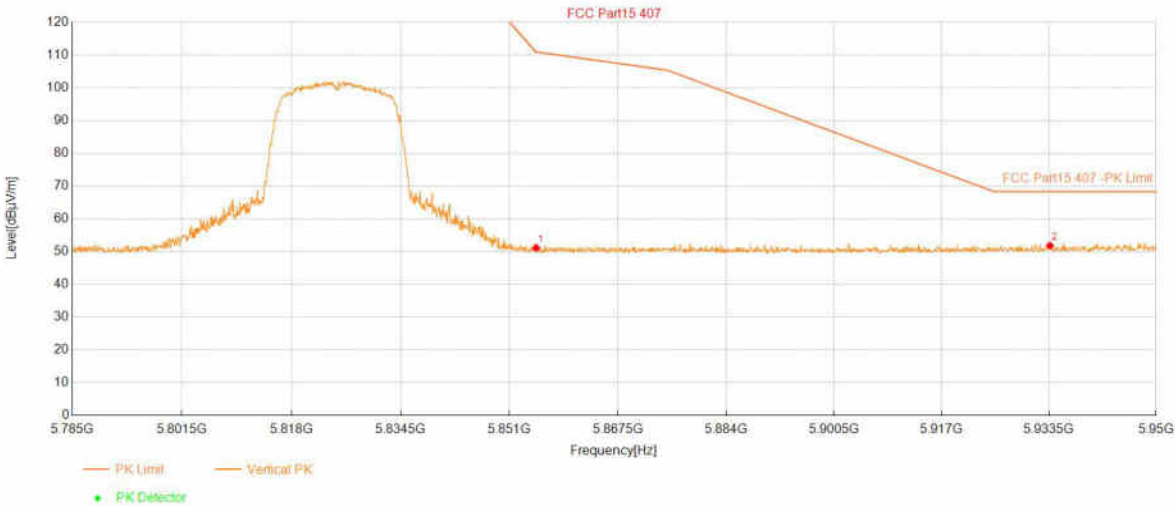
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5854.75	55.42	111.48	56.06	150	170	Horizontal
2	5932.75	51.92	68.30	16.38	150	46	Horizontal

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11AC20_5825	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15 407 PK			

Start of Test:2024-06-25

Test Graph



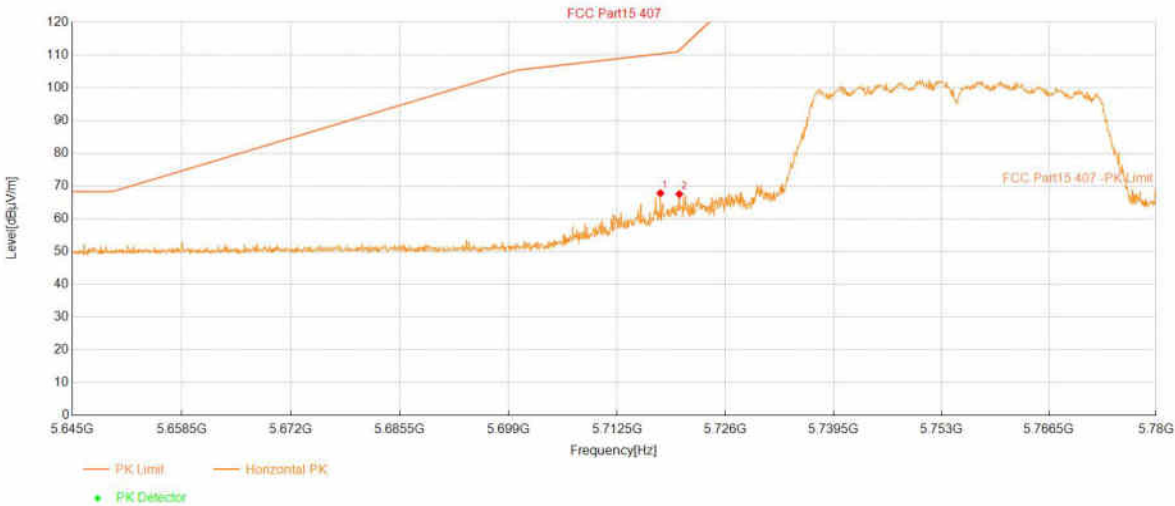
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5855.08	51.10	110.88	59.78	150	82	Vertical
2	5933.66	51.81	68.30	16.49	150	205	Vertical

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11N40_5755	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:	Power Set: 15		
Test Standard: FCC Part15 407 PK			

Start of Test:2024-06-25

Test Graph



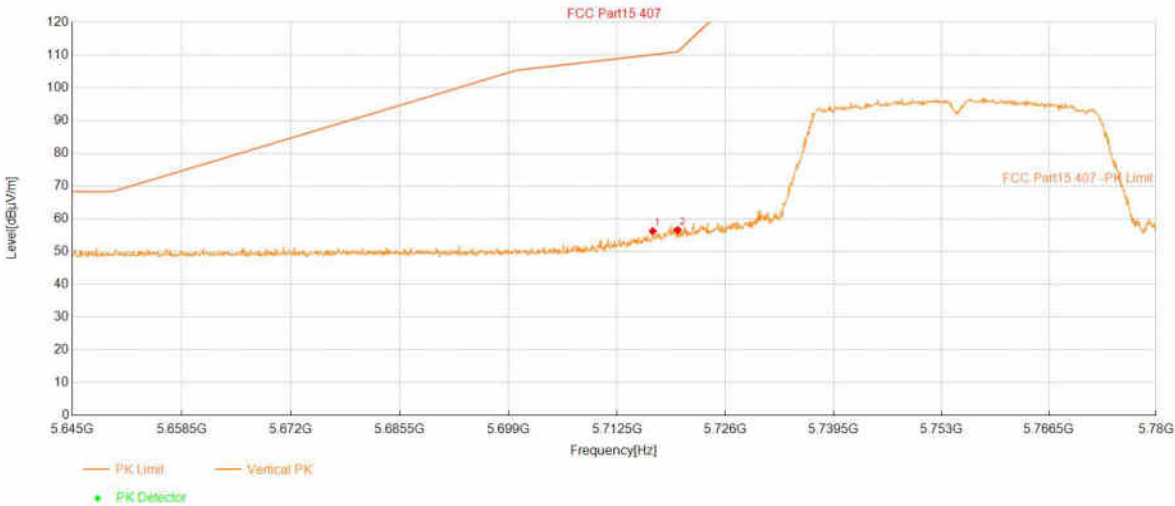
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5717.87	67.79	110.30	42.51	150	29	Horizontal
2	5720.23	67.52	111.43	43.91	150	29	Horizontal

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11N40_5755	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:	Power Set: 15		
Test Standard: FCC Part15 407 PK			

Start of Test:2024-06-25

Test Graph



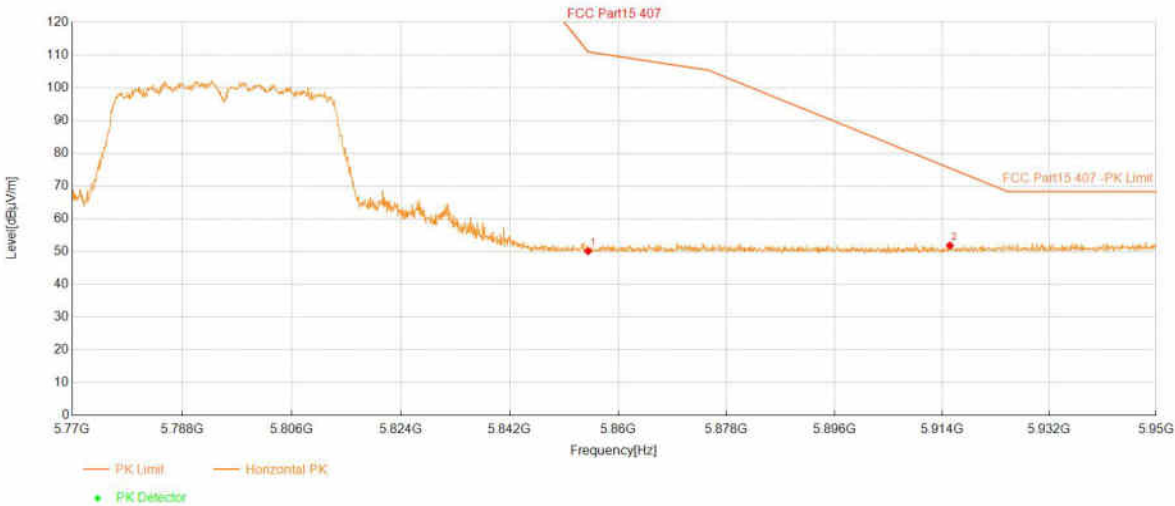
Suspected Data List							
NO.	Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5716.92	56.20	110.04	53.84	150	214	Vertical
2	5720.03	56.55	110.97	54.42	150	214	Vertical

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11N40_5795	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:	Power Set: 15		
Test Standard: FCC Part15 407 PK			

Start of Test:2024-06-25

Test Graph



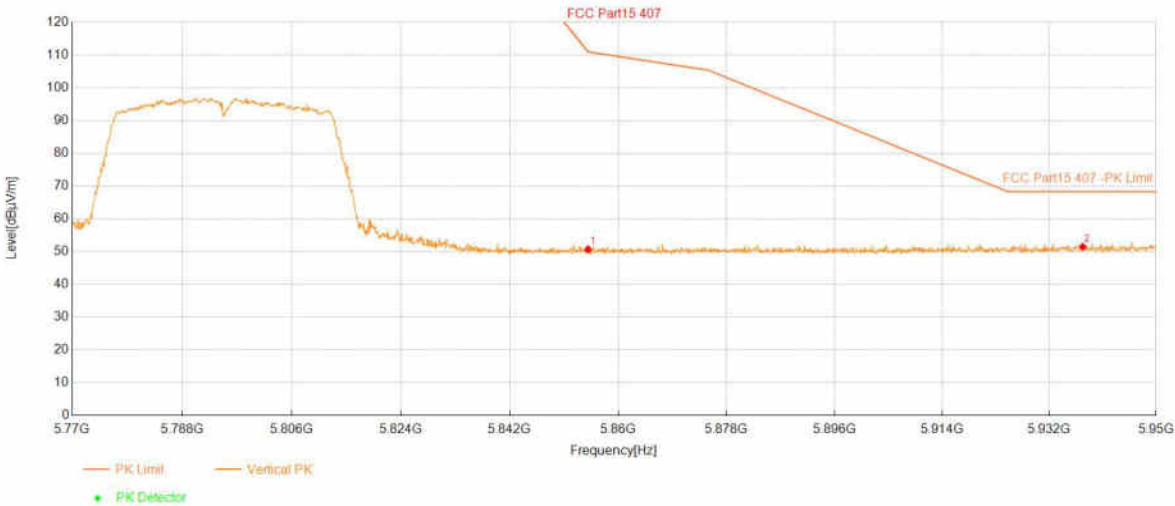
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5855.00	50.09	110.90	60.81	150	62	Horizontal
2	5915.33	51.85	75.43	23.58	150	357	Horizontal

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11N40_5795	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:	Power Set: 15		
Test Standard: FCC Part15 407 PK			

Start of Test:2024-06-25

Test Graph



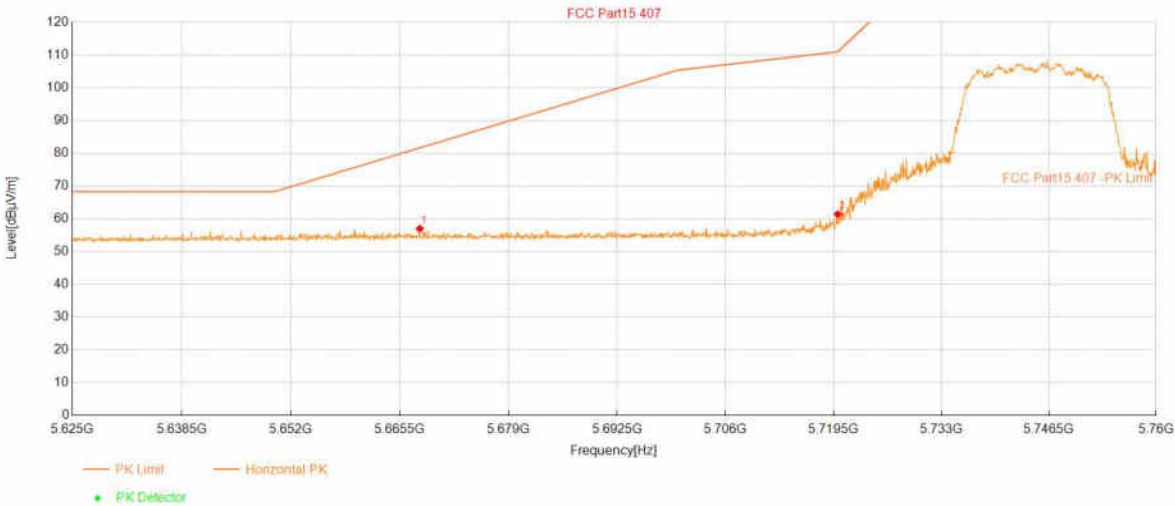
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5855.00	50.67	110.90	60.23	150	271	Vertical
2	5937.66	51.45	68.30	16.85	150	281	Vertical

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11N20_5745	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15 407 PK			

Start of Test:2024-06-25

Test Graph



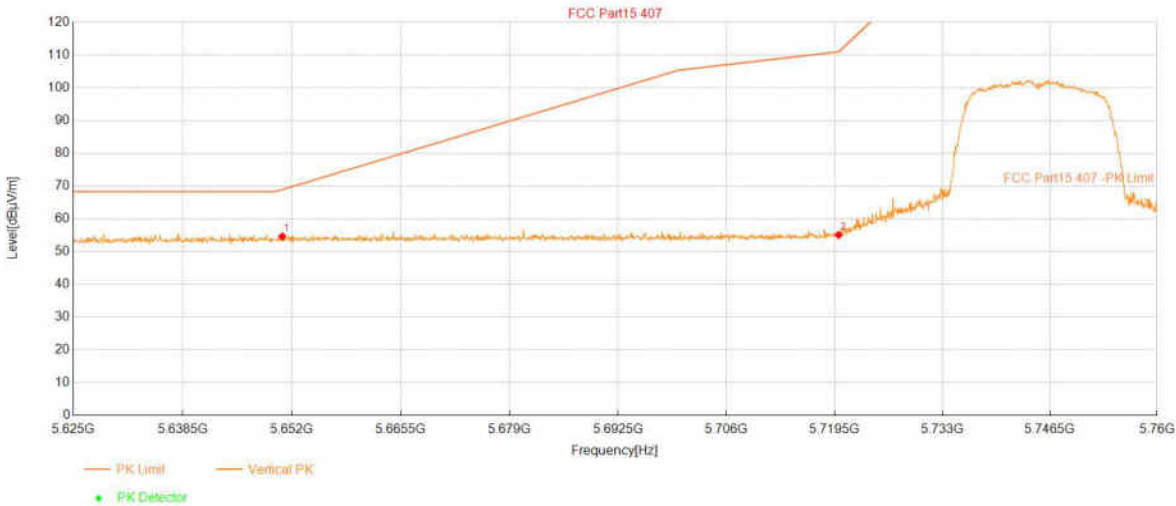
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5667.95	56.96	81.62	24.66	150	29	Horizontal
2	5720.02	61.37	110.95	49.58	150	22	Horizontal

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11N20_5745	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15 407 PK			

Start of Test:2024-06-25

Test Graph



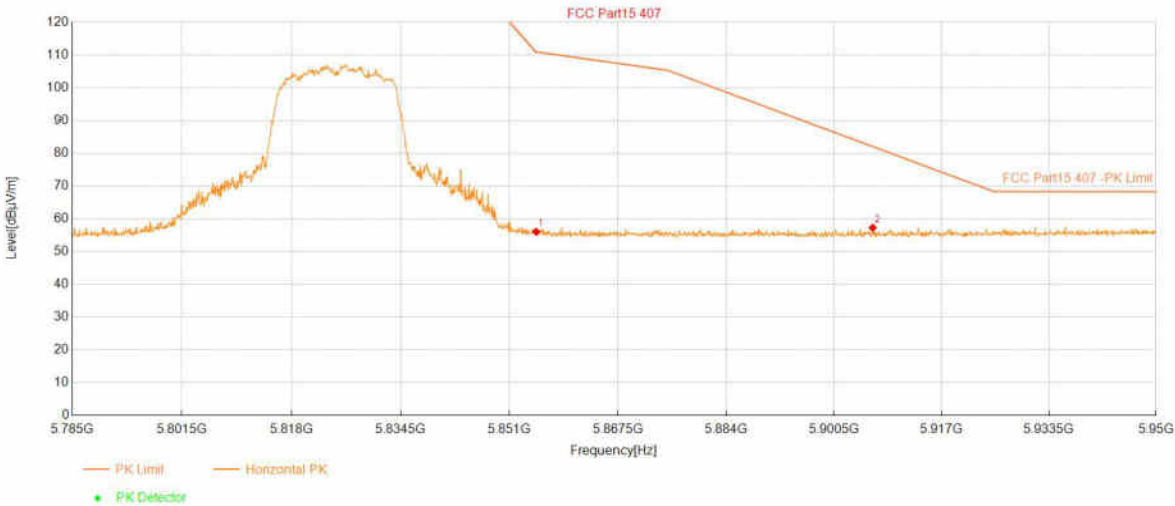
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5650.80	54.62	68.89	14.27	150	330	Vertical
2	5720.02	55.06	110.95	55.89	150	113	Vertical

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11N20_5825	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15 407 PK			

Start of Test:2024-06-25

Test Graph



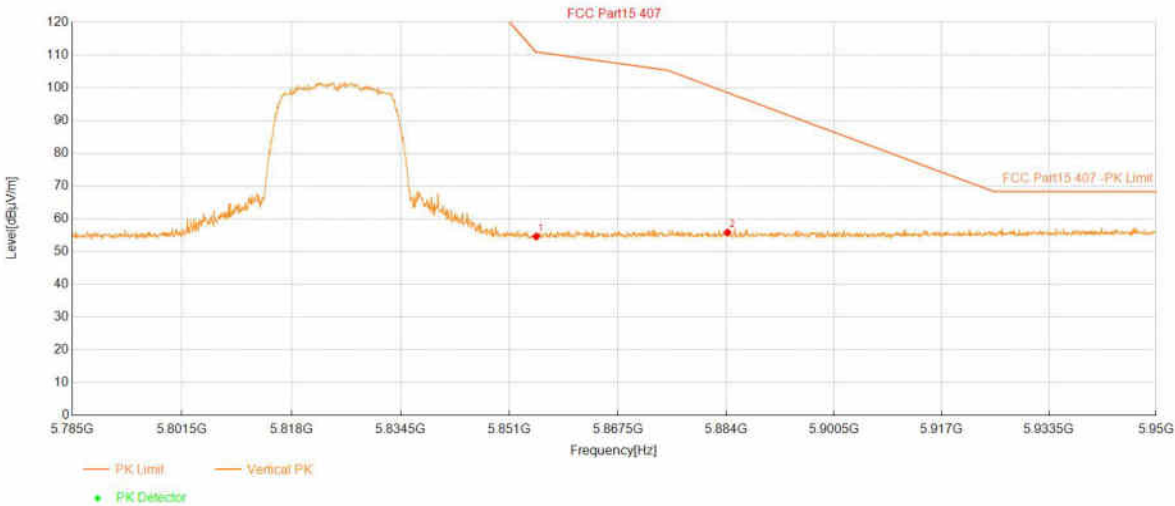
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5855.08	56.04	110.88	54.84	150	359	Horizontal
2	5906.42	57.26	82.01	24.75	150	358	Horizontal

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11N20_5825	Voltage:	DC 3.3V
Environment:	Temp: 25℃；Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15 407 PK			

Start of Test:2024-06-25

Test Graph



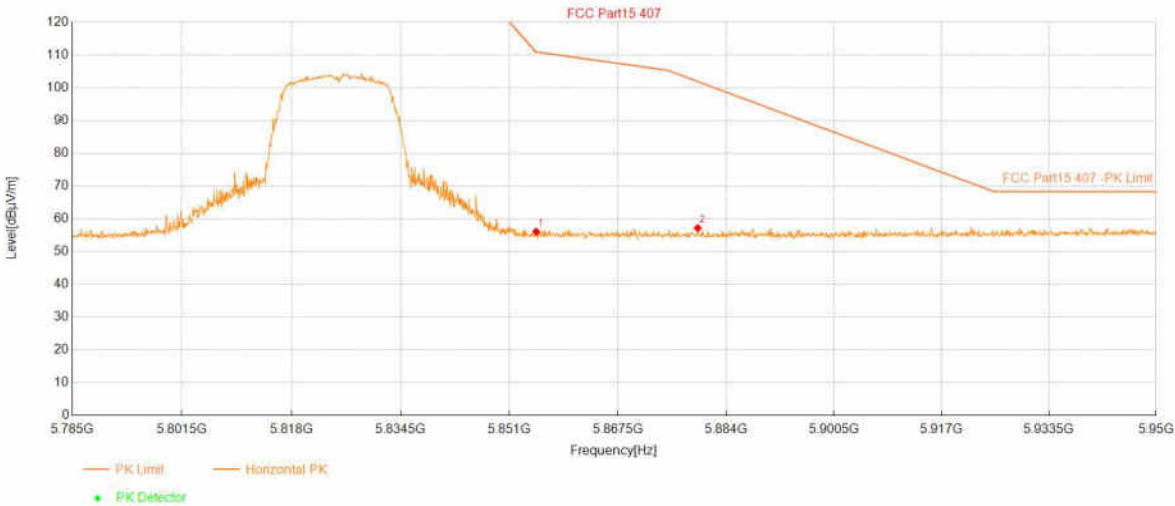
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5855.08	54.55	110.88	56.33	150	130	Vertical
2	5884.21	55.84	98.46	42.62	150	49	Vertical

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11A_5825	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15 407 PK			

Start of Test:2024-06-25

Test Graph



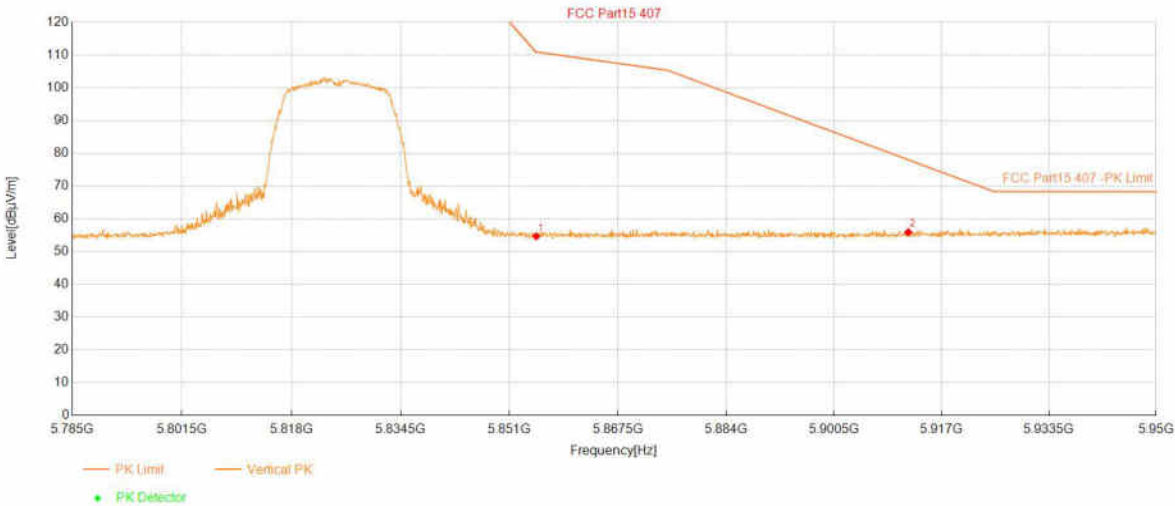
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5855.08	56.07	110.88	54.81	150	29	Horizontal
2	5879.67	57.12	101.83	44.71	150	144	Horizontal

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11A_5825	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15 407 PK			

Start of Test:2024-06-25

Test Graph



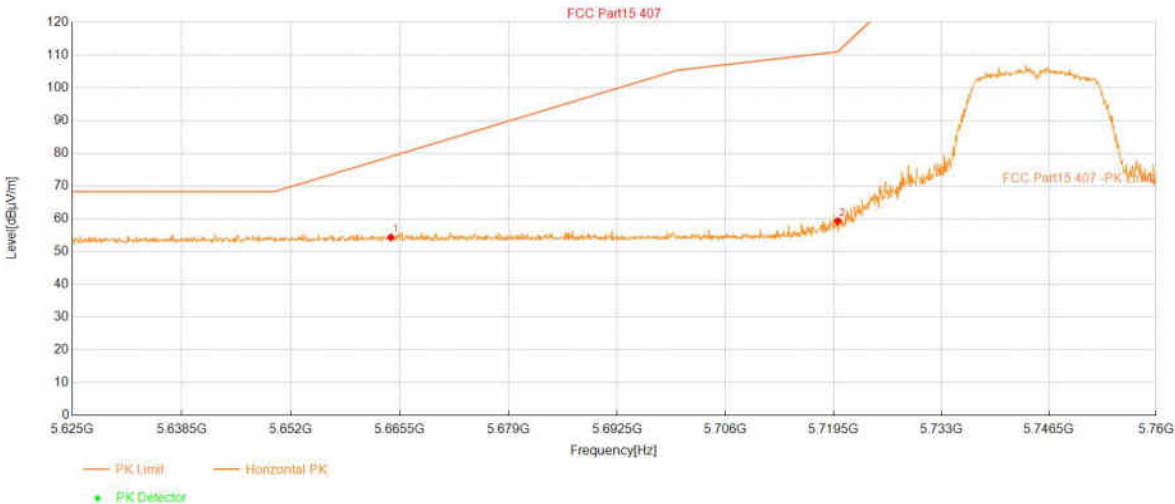
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5855.08	54.62	110.88	56.26	150	356	Vertical
2	5911.87	55.88	77.99	22.11	150	337	Vertical

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11A_5745	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15 407 PK			

Start of Test:2024-06-25

Test Graph



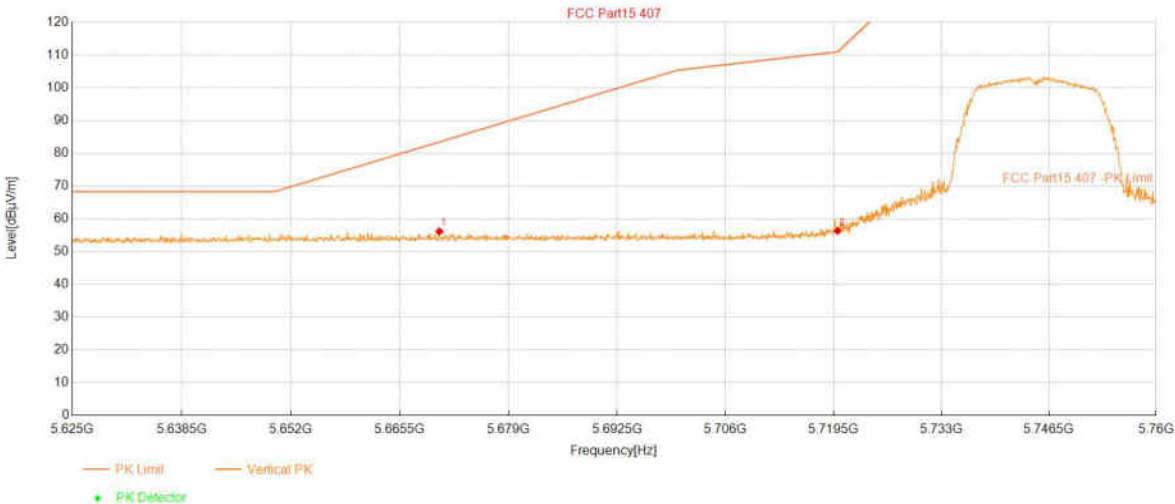
Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5664.37	54.32	78.97	24.65	150	212	Horizontal
2	5720.02	59.27	110.95	51.68	150	22	Horizontal

Test Report

Project Information			
Customer:			
EUT:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth2.1+EDR/4.2/5.1		
Model:	SKI.WB663U.2	SN:	
Mode:	11A_5745	Voltage:	DC 3.3V
Environment:	Temp: 25℃; Humi:60%	Engineer:	Soho Liu
Remark:			
Test Standard: FCC Part15 407 PK			

Start of Test:2024-06-25

Test Graph



Suspected Data List							
NO.	Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	5670.38	56.13	83.42	27.29	150	56	Vertical
2	5720.02	56.33	110.95	54.62	150	63	Vertical

END OF REPORT