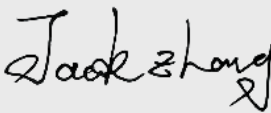




Test report No:
24B0601R-RF-US-P06V03

FCC TEST REPORT

Product Name	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth 2.1+EDR/4.2/5.1
Model and /or type reference	SKI.WB663U.2
FCC ID	2AR82-SKIWB663U21
IC	24728-SKIWB663U21
Applicant's name / address	Guangzhou Shikun Electronics Co., Ltd NO.6 Liankun Road, Huangpu District, Guangzhou 510530, China
Test method requested, standard	47 CFR FCC Part 15 (Section 15.247) RSS-Gen Issue5 RSS-247 Issue3
Verdict Summary	IN COMPLIANCE
Documented by (name / position & signature)	Tim Cao / Project Manager 
Approved by (name / position & signature)	Jack Zhang / Manager 
Date of issue	2024-12-16
Report Version	V1.0
Report template No	Template_FCC Part 15C-RF-V1.0

INDEX

	page
General conditions	4
Environmental conditions	4
Possible test case verdicts	5
Abbreviations.....	5
Document History.....	6
Remarks and Comments	6
Used Equipment.....	7
Uncertainty	9
1 General Information	10
1.1 General Description of the Item(s).....	10
1.2 Antenna Information	11
1.3 Date Rate.....	12
1.4 Channel List.....	13
2 Description of Test Setup.....	14
2.1 Operating mode(s) used for tests	14
2.2 Auxiliary equipment / Test software for the EUT	14
2.3 Test Configuration / Block diagram used for tests.....	15
2.4 Testing process	16
3 Verdict summary section.....	17
3.1 Standards	17
3.2 Deviation(s) from the Standard(s) / Test Specification(s).....	17
3.3 Overview of results	18
3.4 Power setting in test	19
3.5 Test Matrix	19
3.6 Test Facility.....	20
4 Test Items Of Limit/Setup/Procedure.....	21
4.1 Maximum Conducted Output Power.....	21
4.1.1 Limit	21
4.1.2 Test Setup	21
4.1.3 Test Procedure	22
4.2 Band Edge Measurements	24
4.2.1 Limit	24
4.2.2 Test Setup	24
4.2.3 Test Procedure	24

4.3	Emissions in Restricted Bands	25
4.3.1	Limit	25
4.3.2	Test Setup	27
4.3.3	Test Procedure	28
4.4	Antenna Requirement.....	29
4.4.1	Limit:	29
4.4.2	Antenna Connector Construction:	29
5	Test setup photo and EUT Photo	29
6	Test Result.....	30
	Appendix A: Maximum Conducted Output Power	30
	Appendix B: Band edge measurements	31
	Appendix C: Emissions in Restricted Bands.....	95

COMPETENCES AND GUARANTEES

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

IMPORTANT: No parts of this report may be reproduced or quoted out of context, in any form or by any means, except in full, without the previous written permission of DEKRA.

GENERAL CONDITIONS

Test Location	No. 99, Hongye Road, Suzhou Industrial Park Suzhou, 215006, P.R. China
Date(receive sample)	Nov. 15, 2024
Date (start test)	Nov. 20, 2024
Date (finish test)	Nov. 30, 2024

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or Competent Authorities.
3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA.
4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA.

ENVIRONMENTAL CONDITIONS

The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment. The climatic conditions during the tests were within the following limits:

Ambient temperature	15 °C – 35 °C
Relative Humidity air	30% - 60%

If explicitly required in the basic standard or applied product / product family standard the climatic values are recorded and documented separately in this test report.

POSSIBLE TEST CASE VERDICTS

Test case does not apply to test object	N/A
Test object does meet requirement	P (Pass) / PASS
Test object does not meet requirement	F (Fail) / FAIL
Not measured	N/M

ABBREVIATIONS

For the purposes of the present document, the following abbreviations apply:

EUT	: Equipment Under Test
QP	: Quasi-Peak
CAV	: CISPR Average
AV	: Average
CDN	: Coupling Decoupling Network
SAC	: Semi-Anechoic Chamber
OATS	: Open Area Test Site
BW	: Bandwidth
AM	: Amplitude Modulation
PM	: Pulse Modulation
HCP	: Horizontal Coupling Plane
VCP	: Vertical Coupling Plane
U_N	: Nominal voltage
T_x	: Transmitter
R_x	: Receiver
N/A	: Not Applicable
N/M	: Not Measured

DOCUMENT HISTORY

Report No.	Version	Description	Issued Date
24B0601R-RF-US-P06V03	V1.0	Initial issue of report.	2023-12-16

REMARKS AND COMMENTS

1. The equipment under test (EUT) does meet the essential requirements of the stated standard(s)/test(s).
2. This report is based on the certified module with only the antenna added, so only radiated spurious emissions and radiated band edge tests have been performed to demonstrate compliance with the requirements of Part 15 Subpart C 15.247(RSS-Gen Issue5 and RSS-247 Issue3) and to meet the requirements of the Calss II permissible variations. The module certification report number is 4790010773.1-3.
3. The measurement result is considered in conformance with the requirement if it is within the prescribed limit, It is not necessary to account the uncertainty associated with the measurement result.
4. The test results presented in this report relate only to the object tested.
5. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification (Suzhou) Co., Ltd.
6. This report will not be used for social proof function in China market.
7. DEKRA declines any responsibility with the following test data provided by customer that may affect the validity of result:
 - Chapter 1.1 General Description of the Item(s);
 - Chapter 1.2 Antenna Informaion;
 - Chapter 1.3 Data Rate.
 - Chapter 1.4 Channel List.

USED EQUIPMENT

Conducted Test/ TR8

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Version	Software version
Wireless Connectivity Tester	R&S	CMW 270	102593	2024.05.15	2025.05.14	V 4.0.60	N/A
Coaxial Cable	N/A	N/A	2477	2024.06.11	2025.06.10	N/A	N/A
Coaxial Cable	N/A	N/A	2478	2024.06.11	2025.06.10	N/A	N/A
High and low temperature and fast temperature change test box	ASTUOD	ASTD-FBT-225K	N/A	2024.04.21	2025.04.20	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-1909	THM-032	2024.05.17	2025.05.16	N/A	N/A
Test system							
Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Version	Software version
MAX Signal Analyzer	Keysight	N9010A	MY48030494	2024.10.19	2025.10.18	A.14.03	N/A
RF Control Unit	Tonscend	JS0806-2	22G8060594	2024.01.31	2025.01.30	N/A	N/A
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY61252529	2024.05.12	2025.05.11	B.01.96	N/A
Frequency extender for EXG or MXG	Keysight	N5182BX07	MY59362500	2024.05.12	2025.05.11	N/A	N/A
EXG-B MW Analog Signal Generator	Keysight	N5173B	MY61252566	2024.07.06	2025.07.05	B.01.95	N/A
Test Software	Tonscend	TS1120	JS1120-3	N/A	N/A	N/A	V3.0.22

Radiated Emission (9KHz-1GHz) / AC2

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Version	Software version
EMI Test Receiver	R&S	ESCI	100573	2024.02.06	2025.02.05	4.42 SP3	N/A
Loop Antenna	R&S	HFH2-Z2E	101149	2024.03.27	2025.03.26	N/A	N/A
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2024.03.20	2025.03.19	N/A	N/A
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC2-C	2024.04.27	2025.04.26	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-1909	THM-021	2024.05.17	2025.05.16	N/A	N/A
Dekra test software	Dekra	N/A	N/A	N/A	N/A	N/A	3

Radiated Emission (1GHz-40GHz) / AC5

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Version	Software version
EXA Spectrum Analyzer	Keysight	N9020B	MY60112218	2024.11.02	2025.11.01	A.31.05	N/A
Pre-Amplifier	SKET	LNPA_0118G-45	SK2021090101	2024.04.27	2025.04.26	N/A	N/A
Preamplifier	CHENGYI	EMC184045SE	980263	2024.07.06	2025.07.05	N/A	N/A
DRG Horn Antenna	ETS-Lindgren	3117	00167055	2024.08.29	2025.08.28	N/A	N/A
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2024.05.30	2025.05.29	N/A	N/A
Filter Switch Box	MVE	MSW-F196	C070001S	2024.04.20	2025.04.19	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-1909	THM-001	2024.07.11	2025.07.10	N/A	N/A
Coaxial Cable	ROSENBERGER	LA1-C011-2000/3000	AC5-40G	2024.01.25	2025.01.24	N/A	N/A
Coaxial Cable	ROSENBERGER	LA1-C011-2000/3000	AC5-40G-2	2024.05.26	2025.05.25	N/A	N/A
Dekra test software	Dekra	N/A	N/A	N/A	N/A	N/A	3

UNCERTAINTY

Uncertainties have been calculated according to the DEKRA internal document. The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95% .

Test item	Uncertainty
AC Power Line Conducted Emission	9kHz~150kHz: 2.80dB 150kHz~30MHz: 2.40dB
Peak Power Output	± 1.27 dB
Radiated Emission(30MHz~1GHz)	Horizontal: 30MHz~200MHz: 3.50 dB 300MHz~1GHz: 3.60 dB Vertical: 30MHz~200MHz: 3.60 dB 300MHz~1GHz: 3.50 dB
Radiated Emission(1GHz~26.5GHz)	Horizontal: 1GHz~18GHz: 5.00 dB Vertical: 1GHz~18GHz: 4.80 dB
RF antenna conducted test	± 1.27 dB
Radiated Emission Band Edge	± 3.9 dB
DTS Bandwidth	± 150 Hz
Occupied Bandwidth	± 1 kHz
Power Density	± 1.27 dB

1 GENERAL INFORMATION

1.1 General Description of the Item(s)

Product Name	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi Module Integrated Bluetooth 2.1+EDR/4.2/5.1
Model No.	SKI.WB663U.2
FCC ID	2AR82-SKIWB663U21
IC	24728-SKIWB663U21
Manufacturer	Guangzhou Shikun Electronics Co., Ltd
Manufacturer address	NO.6 Liankun Road, Huangpu District, Guangzhou 510530, China
Factory	Guangzhou Shikun Electronics Co., Ltd
Factory address.....	NO.6 Liankun Road, Huangpu District, Guangzhou 510530, China

Wireless specification.....	802.11b/g/n
Operating frequency range(s)	802.11b/g/n(20MHz): 2412~2472MHz 802.11n(40MHz): 2422~2462MHz
Type of Modulation.....	802.11b: DSSS-DBPSK, DQPSK, CCK 802.11g/n: OFDM-BPSK, QPSK, 16QAM, 64QAM
Number of channels	802.11b/g/n(20MHz): 13 802.11b/g/n(40MHz): 9

Rated power supply	Voltage and Frequency	
	☐	AC: 220 - 240 Vac, 50/60 Hz
	☐	AC: 100 - 240 Vac, 50/60 Hz
	☒	DC: 3.3 Vdc
	☐	Battery:
	☐	Adapter:
Mounting position	☐	Table top equipment
	☐	Wall/Ceiling mounted equipment
	☐	Floor standing equipment
	☐	Hand-held/Portable equipment
	☒	Other: RF Module

1.2 Antenna Information

Antenna serial number	LG North America 43"	Main	61005-00890
		Aux	61005-00891
	LG North America 65"	Main	61005-00902
		Aux	61005-00903
Antenna Delivery	☒	1TX + 1RX	
	☒	2TX + 2RX	
	☐	Others:.....	
Antenna technology	☒	SISO	
	☒	MIMO	☒ CDD
			☐ Beam-forming
Antenna Type	☒	External	☐ Dipole
			☐ Sectorized
			☒ PIFA
	☐	Internal	☐ Ceramic Chip
			☐ PIFA
			☐ PCB
			☐ Others.....
	Antenna serial number	LG North America 43"	Main
Aux			2.86 dBi
LG North America 65"		Main	2.89 dBi
		Aux	2.98 dBi
Note: The main antenna used in the test had the highest gain of material number 61005-00903. Directional gain for MIMO-CDD power is 2.98dBi, for PSD is 5.99dBi.			

1.3 Date Rate

IEEE 802.11b

Modulation	Data Rate(Mb/s)
DSSS	1
DSSS	2
CCK	5.5
CCK	11

IEEE 802.11g

Modulation	R	Data Rate(Mb/s)
BPSK	1/2	6
BPSK	3/4	9
QPSK	1/2	12
QPSK	3/4	18
16-QAM	1/2	24
16-QAM	3/4	36
64-QAM	2/3	48
64-QAM	3/4	54

IEEE 802.11n

Spatial streames	MCS Index	Modulation	R	Data Rate(Mb/s)			
				800ns GI		400ns GI	
				20MHz	40MHz	20MHz	40MHz
1	0	BPSK	1/2	6.5	13.5	7.2	15.0
1	1	QPSK	1/2	13.0	27.0	14.4	30.0
1	2	QPSK	3/4	19.5	40.5	21.7	45.0
1	3	16-QAM	1/2	26.0	54.0	28.9	60.0
1	4	16-QAM	3/4	39.0	81.0	43.3	90.0
1	5	64-QAM	2/3	52.0	108.0	57.8	120.0
1	6	64-QAM	3/4	58.5	121.5	65.0	135.0
1	7	64-QAM	5/6	65.0	135.0	72.2	150.0

Note 1: Support of 400ns GI is optional on transmit and receive.

Symbol	Explanation
R	Code rate
GI	guard interval

Note: The data rate marks blue are the worst.

1.4 Channel List

IEEE 802.11b/g & IEEE 802.11n(20MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
001	2412 MHz	002	2417 MHz	003	2422 MHz	004	2427 MHz
005	2432 MHz	006	2437 MHz	007	2442 MHz	008	2447 MHz
009	2452 MHz	010	2457 MHz	011	2462 MHz	012	2467 MHz
013	2472 MHz	N/A	N/A	N/A	N/A	N/A	N/A

IEEE 802.11n(40MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
003	2422 MHz	004	2427 MHz	005	2432 MHz	006	2437 MHz
007	2442 MHz	008	2447 MHz	009	2452 MHz	010	2457 MHz
011	2462 MHz	012	N/A	N/A	N/A	N/A	N/A

Note: The general description of the Item(s), antenna information, data rate and channel list in clause 1 are provided and confirmed by the client.

2 DESCRIPTION OF TEST SETUP

2.1 Operating mode(s) used for tests

During the tests the following operating mode(s) has(have) been used.

Test Mode For Bluetooth	Mode 1: Transmit by 802.11b
	Mode 2: Transmit by 802.11g
	Mode 3: Transmit by 802.11n(20MHz)
	Mode 4: Transmit by 802.11n(40MHz)

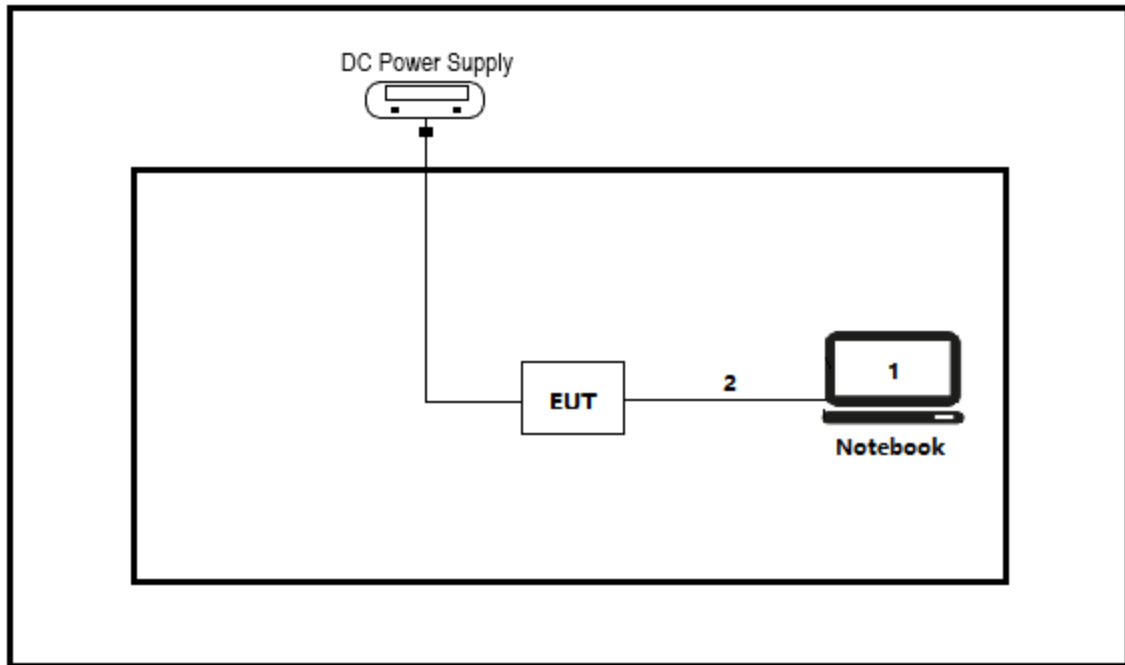
2.2 Auxiliary equipment / Test software for the EUT

Auxiliary equipment	Type / Version	Manufacturer	Supplied by
(1) Notebook	Think pad x220	Lenovo	Adapter
(2) USB Control Cable	N/A	N/A	N/A
(3) USB Control Cable	N/A	N/A	N/A
Software	Type / Version	Manufacturer	Supplied by
MT7663_Win10_Driver_QA_Combo_Tool	N/A	N/A	N/A

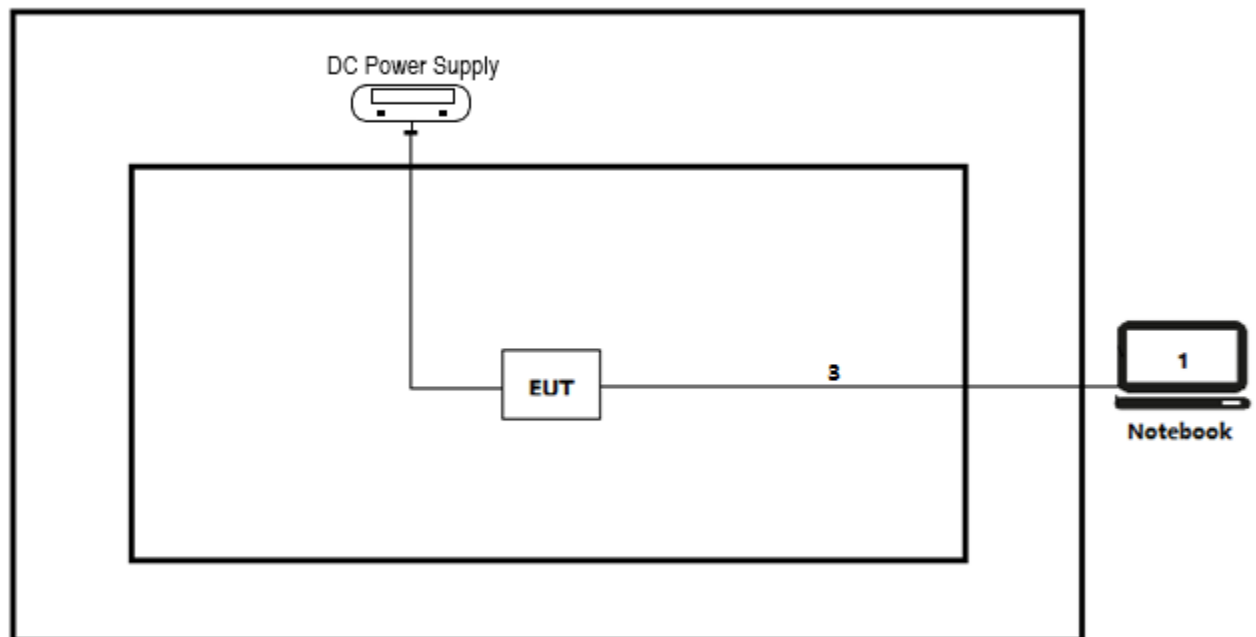
Accessories Information	Cable		
	Length used during test [m]	Attached during test	Shielded
(2)USB Control Cable	1	☒	☒
(3)USB Control Cable	8	☒	☒

2.3 Test Configuration / Block diagram used for tests

Test setup Diagram- Conducted test



Test setup Diagram- Radiated test



2.4 Testing process

1	Setup the EUT shown in Section 2.3.
2	Execute the [MT7663_Win10_Driver_QA_Combo_Tool] on the notebook.
3	Configure the test mode, the test channel, and the data rate.
4	Verify that the EUT works properly.

3 VERDICT SUMMARY SECTION

This chapter presents an overview of standards and results. Refer to the next chapters for details of measured test results and applied test levels.

3.1 Standards

Standard	Year	Description
FCC CFR Title 47 Part 15 Subpart E Section 15.247	2023	Operation within the bands 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz.
ANSI C63.10	2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
KDB558074 D01 v05r02	2019	Guidance for performing compliance measurements on Digital Transmission System (DTS) operating under section 15.247
KDB 662911 D01V02r01	2013	Emissions Testing of Transmitters with Multiple Outputs in the Same Band
RSS-Gen	2019	General Requirements for Compliance of Radio Apparatus
RSS-247	2023	Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices

3.2 Deviation(s) from the Standard(s) / Test Specification(s)

The following deviation(s) was / were made from the published requirements of the listed standards: N/A.

(Please define the deviations from the standard(s) if applicable)

3.3 Overview of results

Requirement – Test Item of FCC	Standard(s)	Verdict	Remark
Maximum conducted output power	FCC 15.247(b)3 RSS-247 Issue 3 Paragraph 5.4(d)	PASS	Test data please refer to Appendix A
Band edge measurements	FCC 15.247(d) FCC 15.205 FCC 15.209 RSS-Gen Issue 5 Paragraph 8.10	PASS	Test data please refer to Appendix B
Emissions in Restricted Bands	FCC 15.205 FCC 15.209 RSS-Gen Issue 5 Paragraph 8.9	PASS	Test data please refer to Appendix C
Antenna Requirement	FCC 15.203 RSS-Gen Issue 5 Paragraph 6.8	PASS	---

3.4 Power setting in test

Mode	Channel	Frequency (MHz)	Power setting	
			Main	Aux
802.11b	01	2412	12	13
	07	2442	13	13
	13	2472	13	13
802.11g	01	2412	14	14
	07	2442	14	14
	13	2472	14	14
802.11n(20MHz)	01	2412	15	15
	07	2442	15	15
	13	2472	15	15
802.11n(40MHz)	03	2422	0F	0F
	07	2442	0F	0F
	11	2462	0F	0F

3.5 Test Matrix

Test item	Model: SKI.WB663U.2
Maximum conducted output power	☒
Band edge measurements	☒
Emissions in Restricted Bands	☒

3.6 Test Facility

USA	:	FCC Designation Number: CN1199
CA	:	ISED CAB identifier: CN0040

4 TEST ITEMS OF LIMIT/SETUP/PROCEDURE

4.1 Maximum Conducted Output Power

VERDICT: PASS

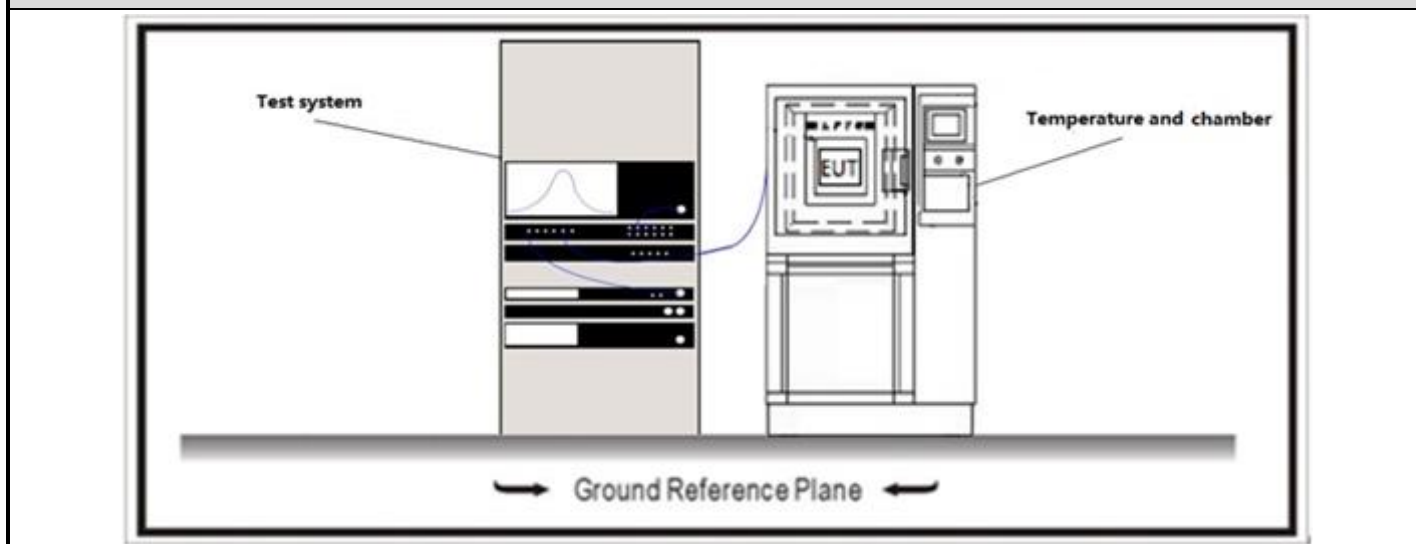
4.1.1 Limit

Standard		FCC Part 15 Subpart C Paragraph 15.247 (b)(3); RSS-247 Issue 3 Paragraph 5.4(d).
☒	GTX < 6dBi	Pout ≤ 30dBm
☐	GTX > 6dBi	
☐	Non-Fix point-point	Pout ≤ 30 - (GTX - 6)
☐	Fix point-point	Pout ≤ 30 - [(GTX - 6)]/3
☐	Point-to-multipoint	Pout ≤ 30 - (GTX - 6)
☐	Overlap Beams	Pout ≤ 30 - [(GTX - 6)]/3
☐	Aggregate power transmitted simultaneously on all beams	Pout ≤ 30 - [(GTX - 6)]/3
☐	single directional beam	Pout ≤ 30 - [(GTX - 6)]/3 + 8dB

Note 1 : GTX directional gain of transmitting antennas.

Note 2 : Pout is maximum peak conducted output power .

4.1.2 Test Setup



4.1.3 Test Procedure

	References Rule			Chapter	Description		
☒	ANSI C63.10			11.9	Fundamental emission output power		
	☒	ANSI C63.10			11.9.1	Maximum peak conducted output power	
		☐	ANSI C63.10		11.9.1.1	RBW ≥ DTS bandwidth	
		☐	ANSI C63.10		11.9.1.2	Integrated band power method	
		☒	ANSI C63.10		11.9.1.3	PKPM1 Peak power meter method	
	☐	ANSI C63.10			11.9.2	Maximum conducted (average) output power	
		☐	ANSI C63.10		11.9.2.2	Measurement using a spectrum analyzer (SA)	
			☐	ANSI C63.10		11.9.2.2.2	Method AVGSA-1(Duty cycle ≥98%)
			☐	ANSI C63.10		11.9.2.2.3	Method AVGSA-1A(Duty cycle ≥98%)
			☐	ANSI C63.10		11.9.2.2.4	Method AVGSA-2(Duty cycle ≤98%)
			☐	ANSI C63.10		11.9.2.2.5	Method AVGSA-2A(Duty cycle ≤98%)
			☐	ANSI C63.10		11.9.2.2.4	Method AVGSA-3
			☐	ANSI C63.10		11.9.2.2.5	Method AVGSA-3A
		☐	ANSI C63.10			11.9.2.3	Measurement using a power meter (PM)
		☐	ANSI C63.10		11.9.2.3.1	Method AVGPM	
		☐	ANSI C63.10		11.9.2.3.2	Method AVGPM-G	

Directional Gain Calculations for In-Band test method				
	References Rule		Chapter	Description
☐	KDB 662911		F2)a)	Basic methodology
	☐	KDB 662911	F2)a) (i)	transmit signals are correlated
	☐	KDB 662911	F2)a) (ii)	transmit signals are uncorrelated
☐	KDB 662911		F2)b)	Sectorized antenna systems.
☐	KDB 662911		F2)c)	Cross-polarized antennas
	☐	ANSI C63.10	F2)c) (i)	Cross-polarized antennas
	☐	ANSI C63.10	F2)c) (ii)	Multiple antennas
☐	KDB 662911		F2)e)	Spatial stream
	☒	KDB 662911	F2)e) (i)	Antennas have the same gain
	☐	KDB 662911	F2)e) (ii)	Antenna have the different gain with one spatial stream
	☐	KDB 662911	F2)e) (iii)	Antenna have the different gain with more than one spatial stream
☒	KDB 662911		F2)f)	Cyclic Delay Diversity (CDD)
	☒	KDB 662911	F2)f) (i)	Antennas have the same gain
	☐	KDB 662911	F2)f) (ii)	Antenna have the different gain with one spatial stream
	☐	KDB 662911	F2)f) (iii)	Antenna have the different gain with more than one spatial stream

4.2 Band Edge Measurements

VERDICT: PASS

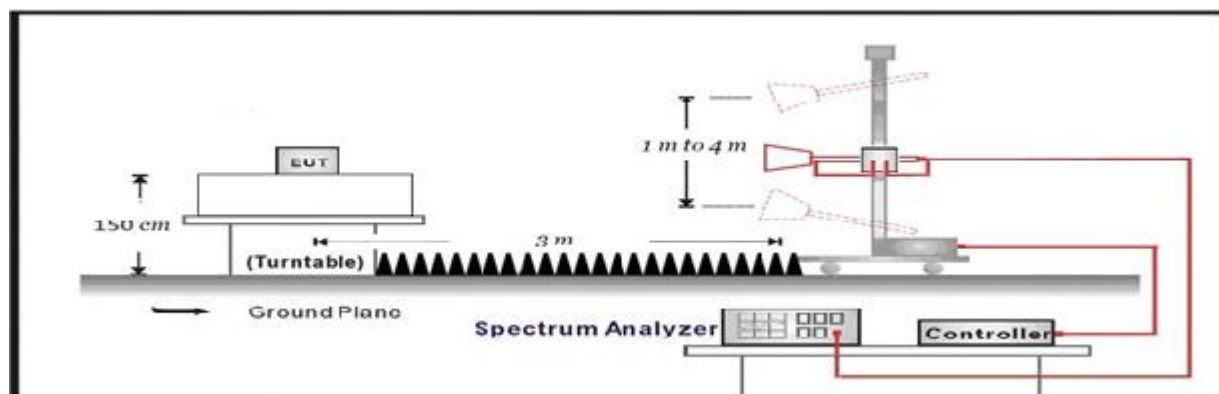
4.2.1 Limit

Standard		FCC Part 15 Subpart C Paragraph 15.247(d) , 15.209;		
Frequency bands (MHz)	Detector	Limit (dB μ V/m)	RBW (MHz)	Distance (m)
2310-2390	PK	74	1	3
2483.5-2500	AV	54	1	3

Note: The field strength of emissions appearing within these frequency bands shall not exceed the limits.

4.2.2 Test Setup

Above 1GHz Test Setup:



4.2.3 Test Procedure

	References Rule	Chapter	Description
☒	ANSI C63.10	6.10	Band-edge testing
☒	☒ ANSI C63.10	6.10.5	Restricted-band band-edge measurements
	☐ ANSI C63.10	6.10.6	Marker-delta method
☒	ANSI C63.10	11.12	Emissions in restricted frequency bands
☒	☒ ANSI C63.10	11.12.1	Radiated emission measurements
☒	☒ ANSI C63.10	11.12.2.7	Radiated spurious emission test
☐	ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
☐	ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
☒	ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz

4.3 Emissions in Restricted Bands**VERDICT: PASS****4.3.1 Limit****Standard**

FCC Part 15 Subpart C Paragraph 15.205

Restricted Bands of operation

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 – 0.110	16.42 – 16.423	399.9 – 410	4.5 – 5.15
0.495 – 0.505	16.69475 – 16.69525	608 – 614	5.35 – 5.46
2.1735 – 2.1905	16.80425 – 16.80475	960 – 1240	7.25 – 7.75
4.125 – 4.128	25.5 – 25.67	1300 – 1427	8.025 – 8.5
4.17725 – 4.17775	37.5 – 38.25	1435 – 1626.5	9.0 – 9.2
4.20725 – 4.20775	73 – 74.6	1645.5 – 1646.5	9.3 – 9.5
6.215 – 6.218	74.8 – 75.2	1660 – 1710	10.6 – 12.7
6.26775 – 6.26825	108 – 121.94	1718.8 – 1722.2	13.25 – 13.4
6.31175 – 6.31225	123 – 138	2200 – 2300	14.47 – 14.5
8.291 – 8.294	149.9 – 150.05	2310 – 2390	15.35 – 16.2
8.362 – 8.366	156.52475 – 156.52525	2483.5 – 2500	17.7 – 21.4
8.37625 – 8.38675	156.7 – 156.9	2690 – 2900	22.01 – 23.12
8.81425 – 8.81475	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	
13.36 – 13.41			

Restricted Band Emissions Limit

FCC Part 15 Subpart C Paragraph 15.209

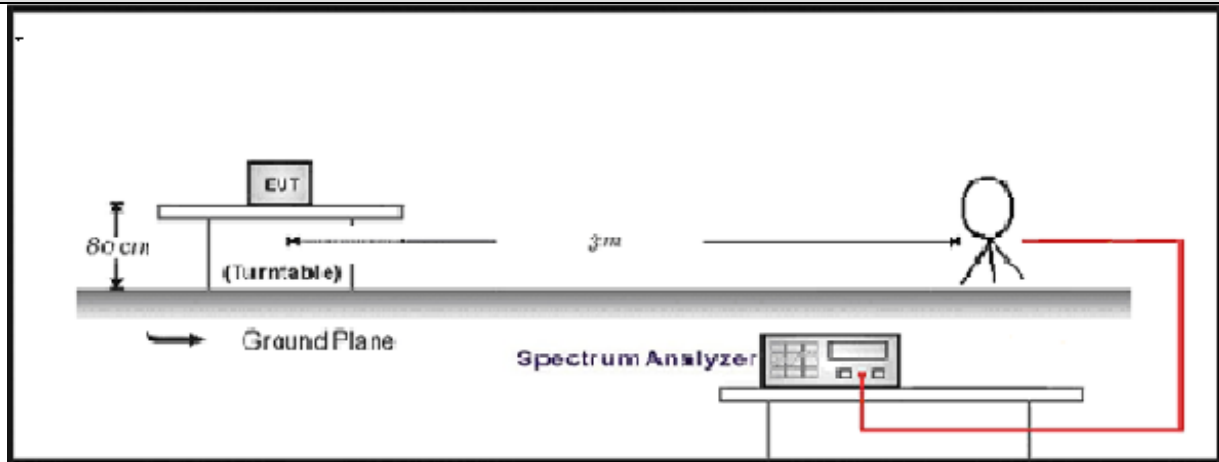
Frequency (MHz)	Field strength ($\mu\text{V/m}$)	Field strength ($\text{dB}\mu\text{V/m}$)	Measurement distance (m)
0.009 - 0.49	2400/F(kHz)	48.5 – 13.8	300 _(Note 1)
0.49 - 1.705	24000/F(kHz)	33.8 - 23	30 _(Note 1)
1.705 - 30	30	29.5	30 _(Note 1)
30 - 88	100	40	3 _(Note 2)
88 - 216	150	43.5	3 _(Note 2)
216 - 960	200	46	3 _(Note 2)
Above 960	500	54	3 _(Note 2)

Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

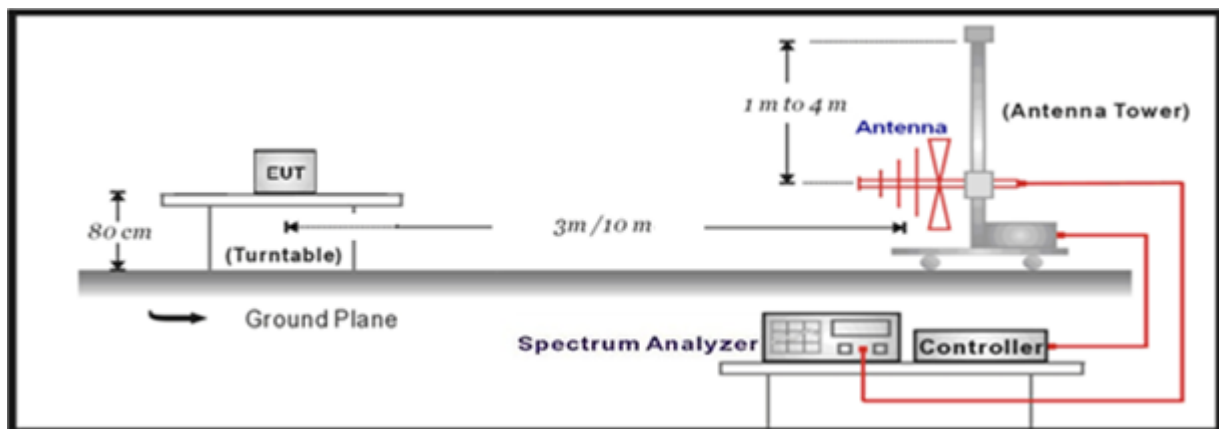
Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

4.3.2 Test Setup

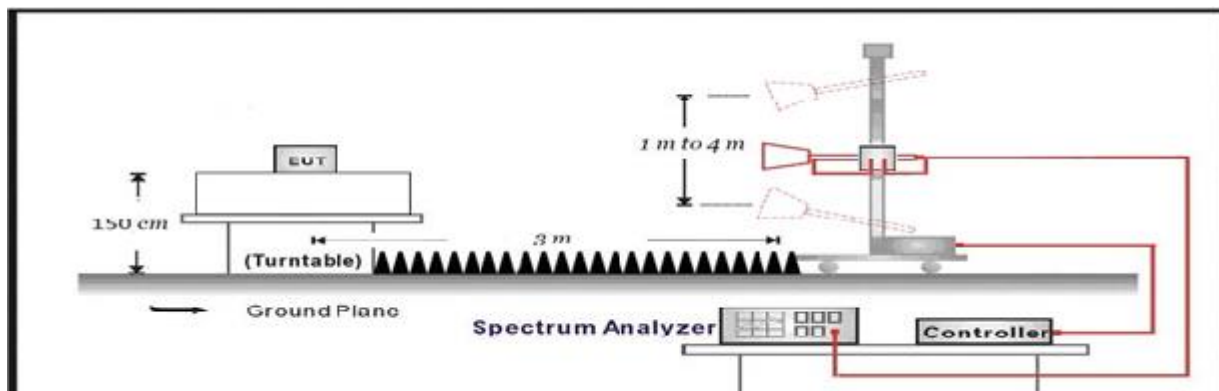
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz Test Setup:



4.3.3 Test Procedure

	References Rule		Chapter	Description
☒	ANSI C63.10		11.12	Emissions in restricted frequency bands
	☒	ANSI C63.10	11.12.1	Radiated emission measurements
	☒	ANSI C63.10	11.12.2.7	Radiated spurious emission test
	☒	ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
	☒	ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
	☒	ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz

4.4 Antenna Requirement**VERDICT: PASS****4.4.1 Limit:****Standard**

FCC Part 15 Subpart C Paragraph 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

4.4.2 Antenna Connector Construction:

The use of a permanently attached antenna



The antenna use of a unique coupling to the intentional radiator



The use of a nonstandard antenna jack or electrical connector

Please refer to the attached document "Internal Photograph" to show the antenna connector.

5 TEST SETUP PHOTO AND EUT PHOTO

Remark: The test setup photo and EUT Photo please see appendix.

6 TEST RESULT

Appendix A: Maximum Conducted Output Power

Mode	CH.	Test Freq. (MHz)	Output power (dBm)			Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Result
			Main	Aux	Main+Aux				
1	1	2412	9.89	10.65	N/A	≤ 30	13.63	≤ 36	Pass
	6	2437	10.52	10.88	N/A	≤ 30	13.86	≤ 36	Pass
	11	2462	10.55	10.80	N/A	≤ 30	13.78	≤ 36	Pass
2	1	2412	10.11	10.69	N/A	≤ 30	13.67	≤ 36	Pass
	6	2437	10.09	10.53	N/A	≤ 30	13.51	≤ 36	Pass
	11	2462	10.31	10.75	N/A	≤ 30	13.73	≤ 36	Pass
3	1	2412	9.66	10.15	12.92	≤ 30	15.86	≤ 36	Pass
	6	2437	9.53	9.97	12.77	≤ 30	15.71	≤ 36	Pass
	11	2462	9.87	10.23	13.06	≤ 30	16.00	≤ 36	Pass
4	3	2422	6.49	7.23	9.89	≤ 30	12.83	≤ 36	Pass
	6	2437	6.73	7.25	10.01	≤ 30	12.95	≤ 36	Pass
	9	2452	6.67	7.30	10.01	≤ 30	12.95	≤ 36	Pass

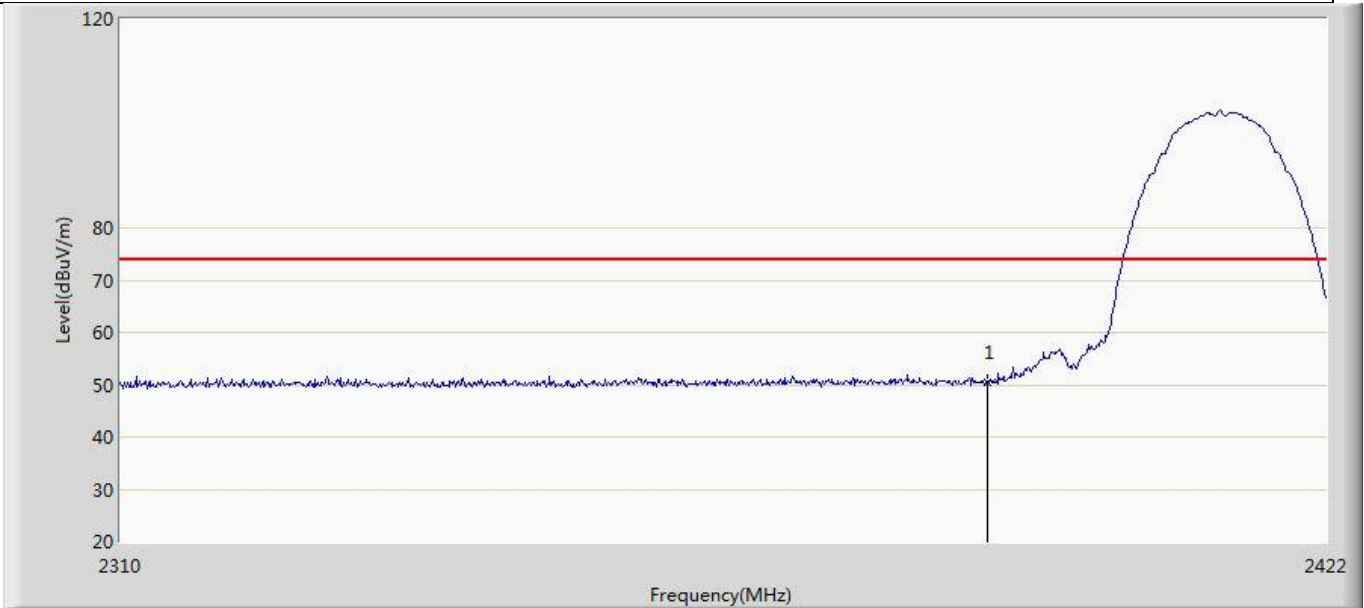
Note:

1. EIRP = Output power + Directional Gain
2. Please refer to section 1.2 for antenna gain

Appendix B: Band edge measurements

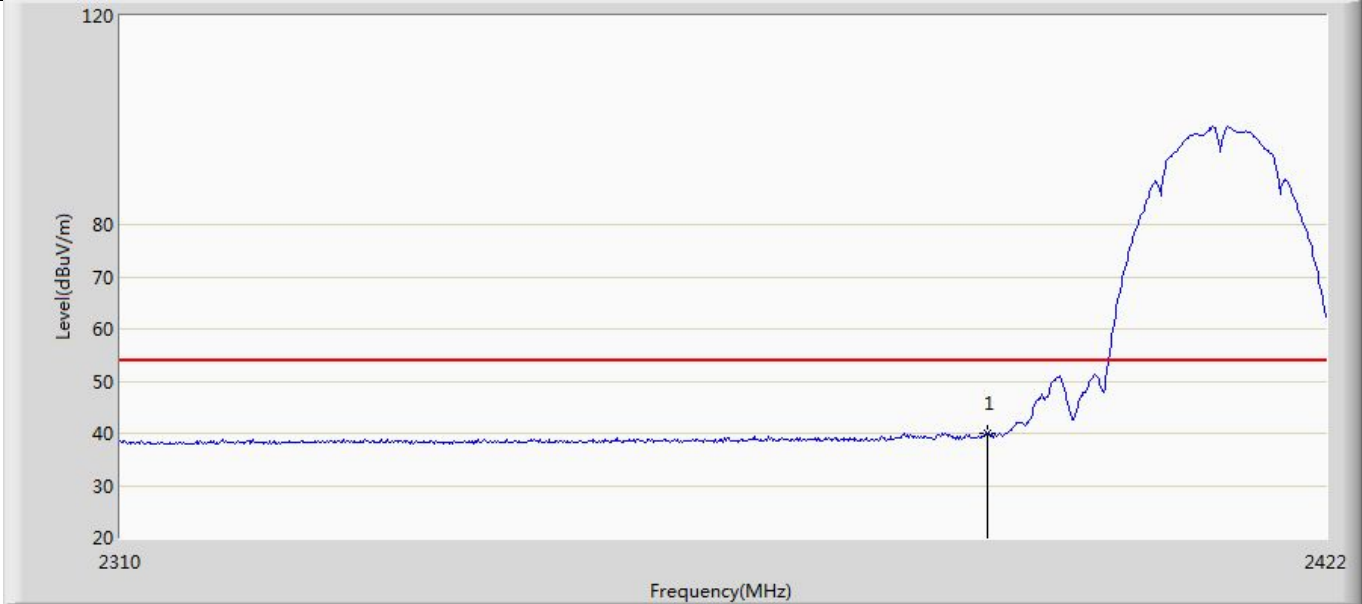
LG North America 43-inch antenna

Profile: 24B0601R	Page No.: 1
Engineer: Yuliu	
Site: AC5	Time: 2024/11/28 - 20:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3 Vdc
Note: Mode 1 : Transmit at 2412MHz by 802.11b with Aux	



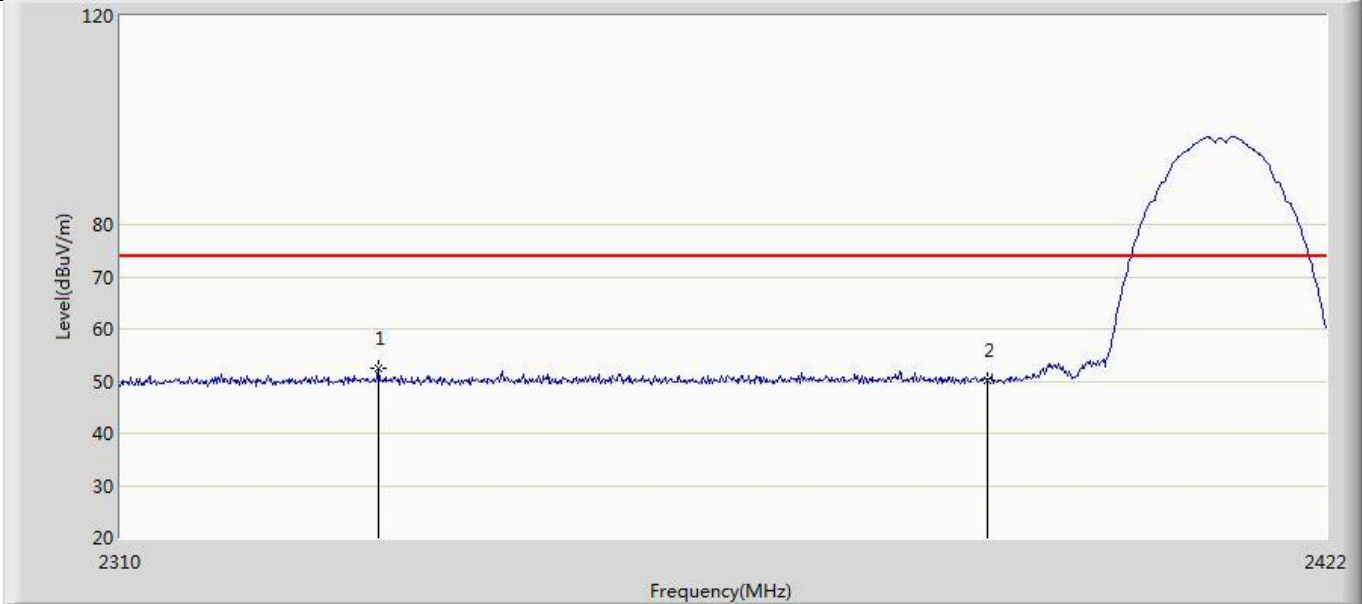
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	50.440	16.339	-23.560	74.000	34.102	PK

Profile: 24B0601R	Page No.: 2
Engineer: Yuliu	
Site: AC5	Time: 2024/11/28 - 20:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3 Vdc
Note: Mode 1 : Transmit at 2412MHz by 802.11b with Aux	



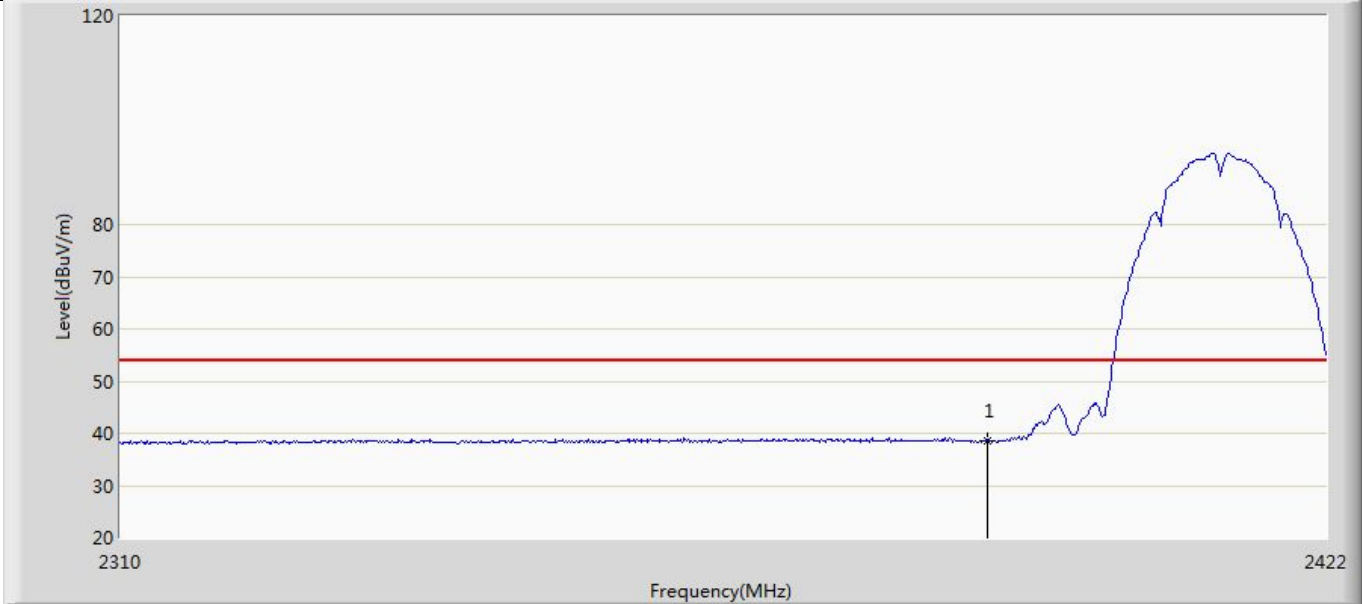
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	39.862	5.761	-14.138	54.000	34.102	AV

Profile: 24B0601R	Page No.: 3
Engineer: Yuliu	
Site: AC5	Time: 2024/11/28 - 20:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 3.3 Vdc
Note: Mode 1 : Transmit at 2412MHz by 802.11b with Aux	



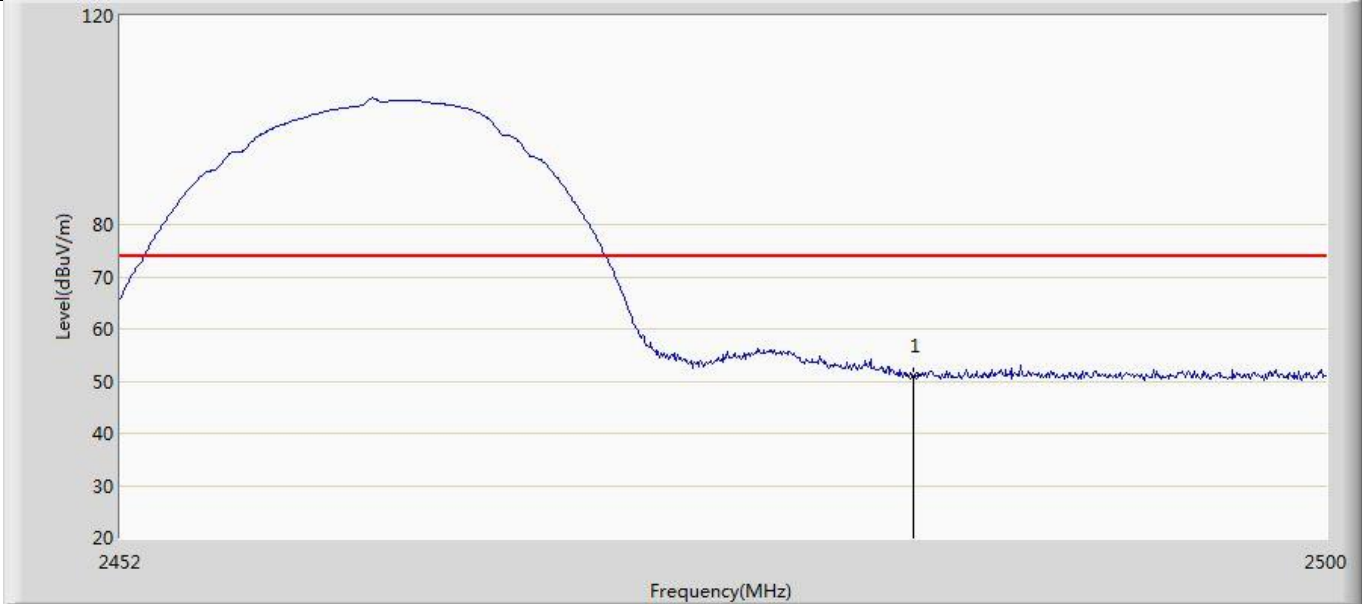
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2333.520	52.504	18.541	-21.496	74.000	33.963	PK
2		2390.000	50.233	16.132	-23.767	74.000	34.102	PK

Profile: 24B0601R	Page No.: 4
Engineer: Yuliu	
Site: AC5	Time: 2024/11/28 - 20:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 3.3 Vdc
Note: Mode 1 : Transmit at 2412MHz by 802.11b with Aux	



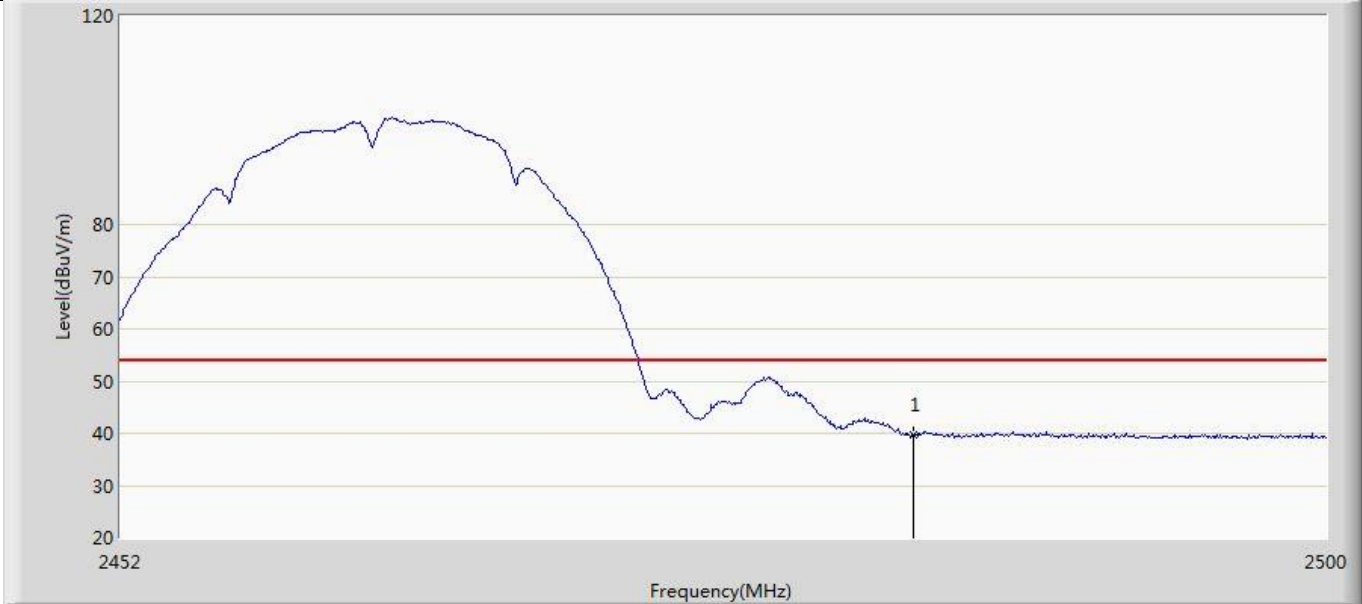
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	38.514	4.413	-15.486	54.000	34.102	AV

Profile: 24B0601R	Page No.: 5
Engineer: Yuliu	
Site: AC5	Time: 2024/11/28 - 20:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3 Vdc
Note: Mode 1 : Transmit at 2462MHz by 802.11b with Aux	



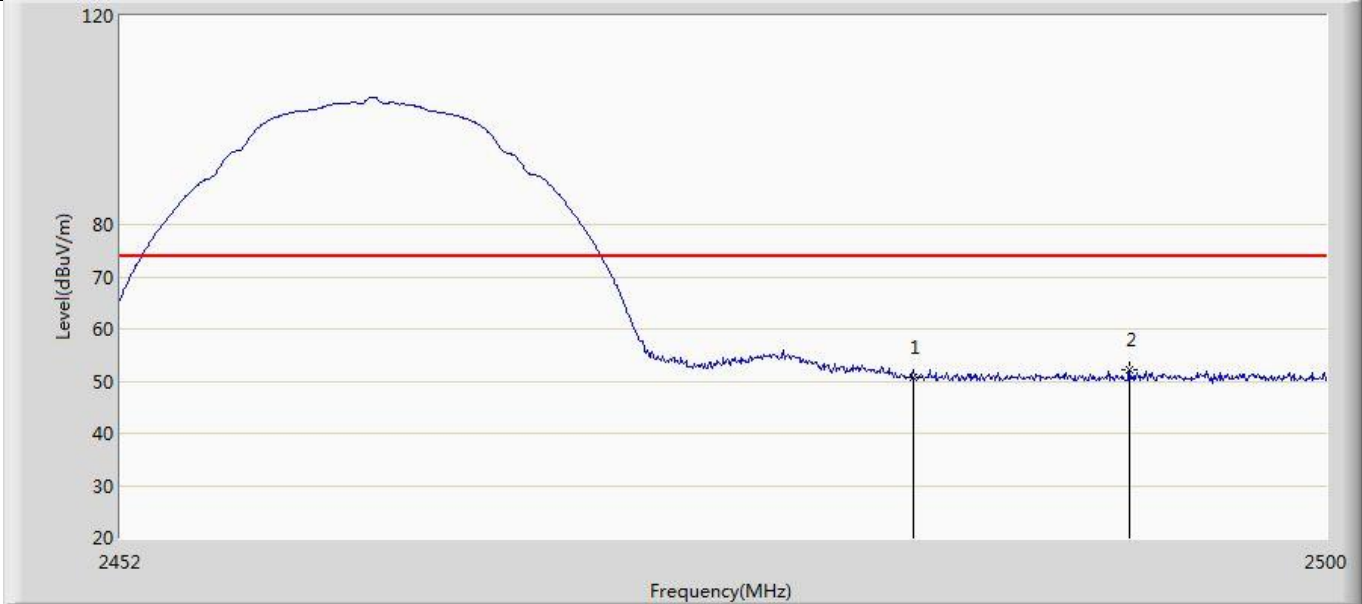
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	50.939	16.826	-23.061	74.000	34.114	PK

Profile: 24B0601R	Page No.: 6
Engineer: Yuliu	
Site: AC5	Time: 2024/11/28 - 20:46
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3 Vdc
Note: Mode 1 : Transmit at 2462MHz by 802.11b with Aux	



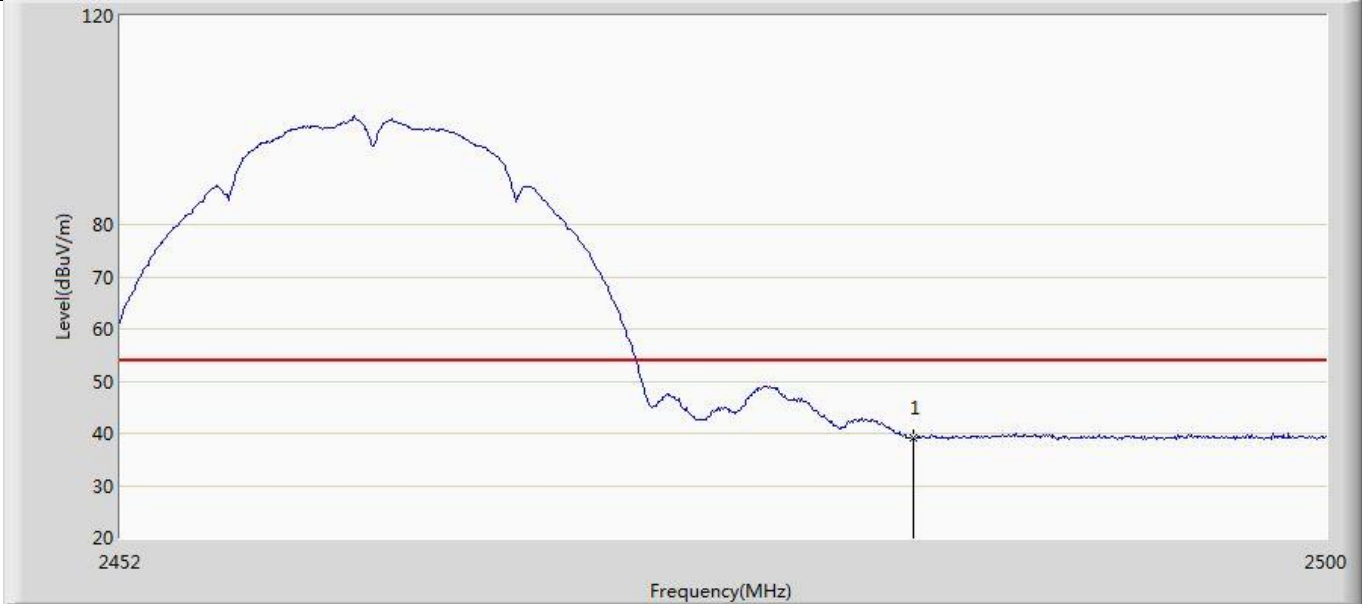
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	39.776	5.663	-14.224	54.000	34.114	AV

Profile: 24B0601R	Page No.: 7
Engineer: Yuliu	
Site: AC5	Time: 2024/11/28 - 20:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 3.3 Vdc
Note: Mode 1 : Transmit at 2462MHz by 802.11b with Aux	



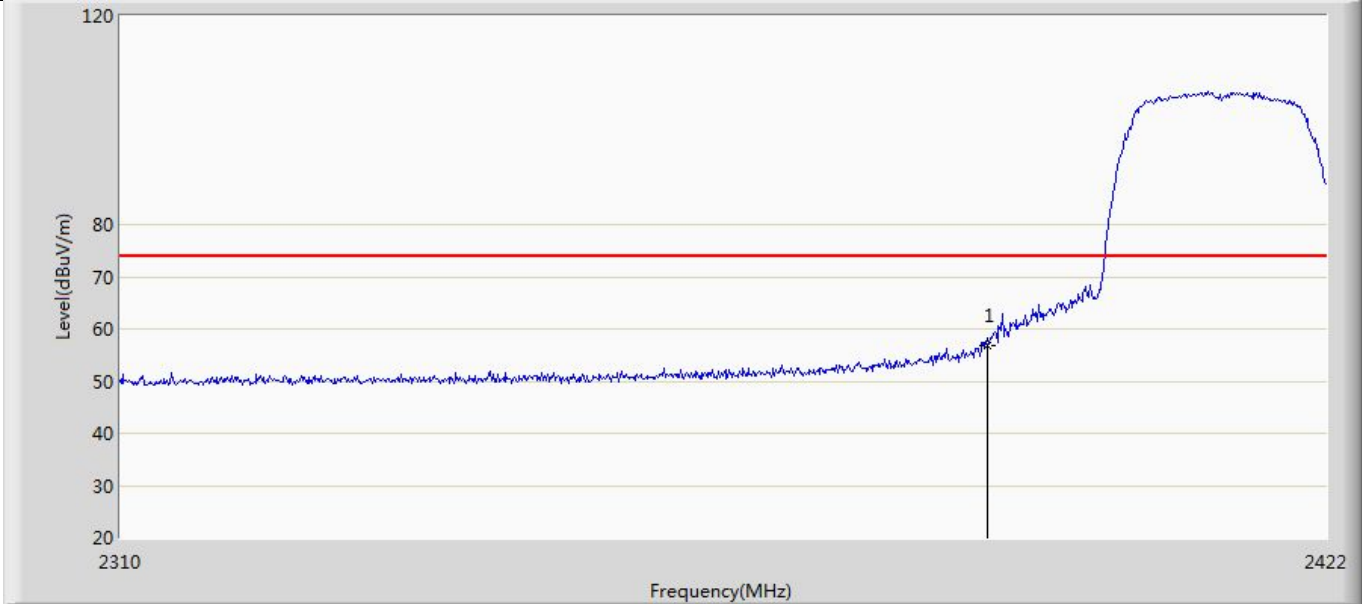
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2483.500	50.614	16.501	-23.386	74.000	34.114	PK
2	*	2492.128	52.205	18.024	-21.795	74.000	34.182	PK

Profile: 24B0601R	Page No.: 8
Engineer: Yuliu	
Site: AC5	Time: 2024/11/28 - 20:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 3.3 Vdc
Note: Mode 1 : Transmit at 2462MHz by 802.11b with Aux	



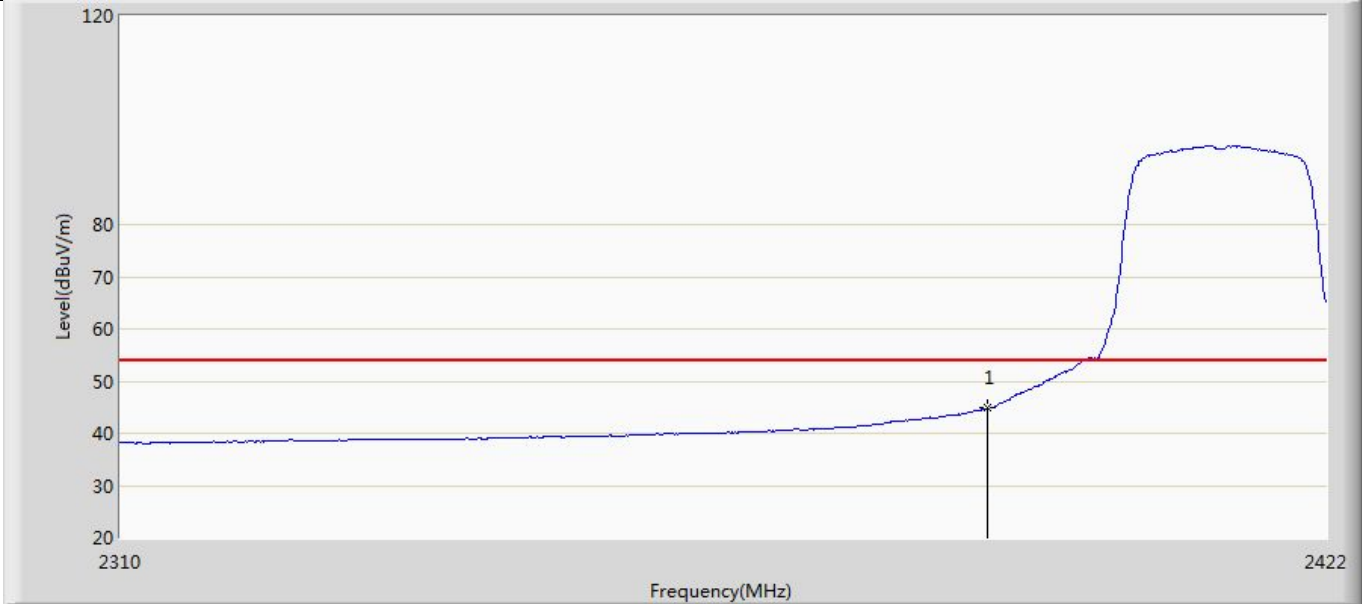
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	39.184	5.071	-14.816	54.000	34.114	AV

Profile: 24B0601R	Page No.: 9
Engineer: Yuliu	
Site: AC5	Time: 2024/11/28 - 20:51
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3 Vdc
Note: Mode 2 : Transmit at 2412MHz by 802.11g with Aux	



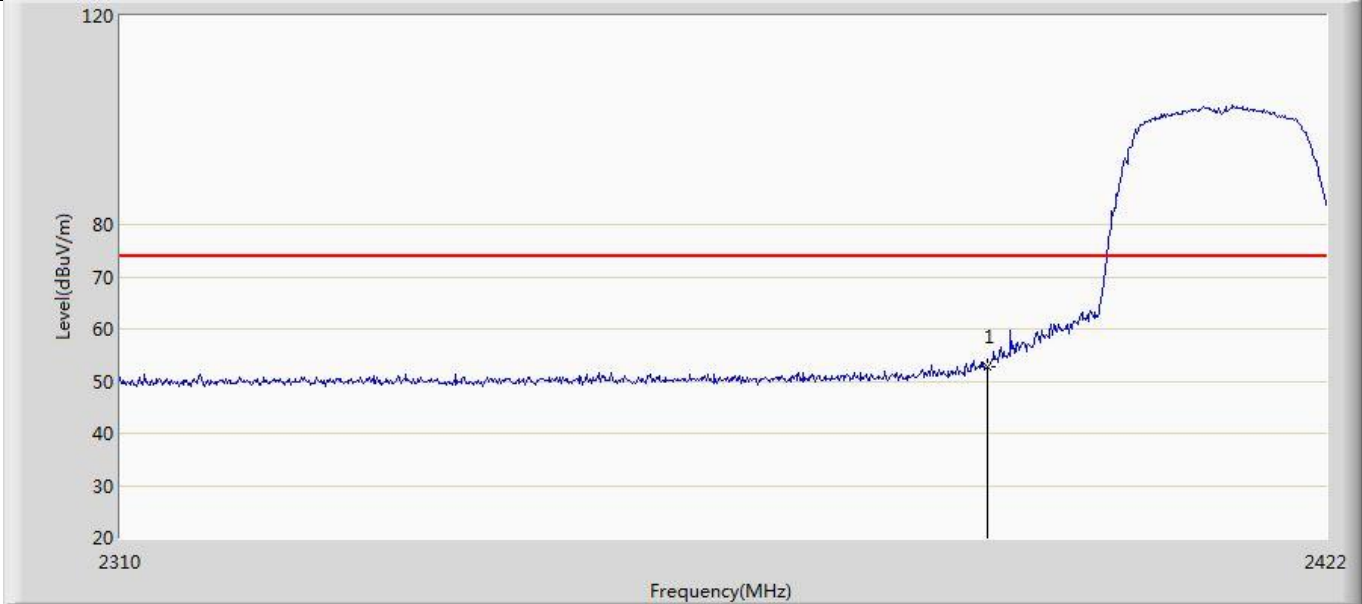
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	56.865	22.764	-17.135	74.000	34.102	PK

Profile: 24B0601R	Page No.: 10
Engineer: Yuliu	
Site: AC5	Time: 2024/11/28 - 20:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3 Vdc
Note: Mode 2 : Transmit at 2412MHz by 802.11g with Aux	



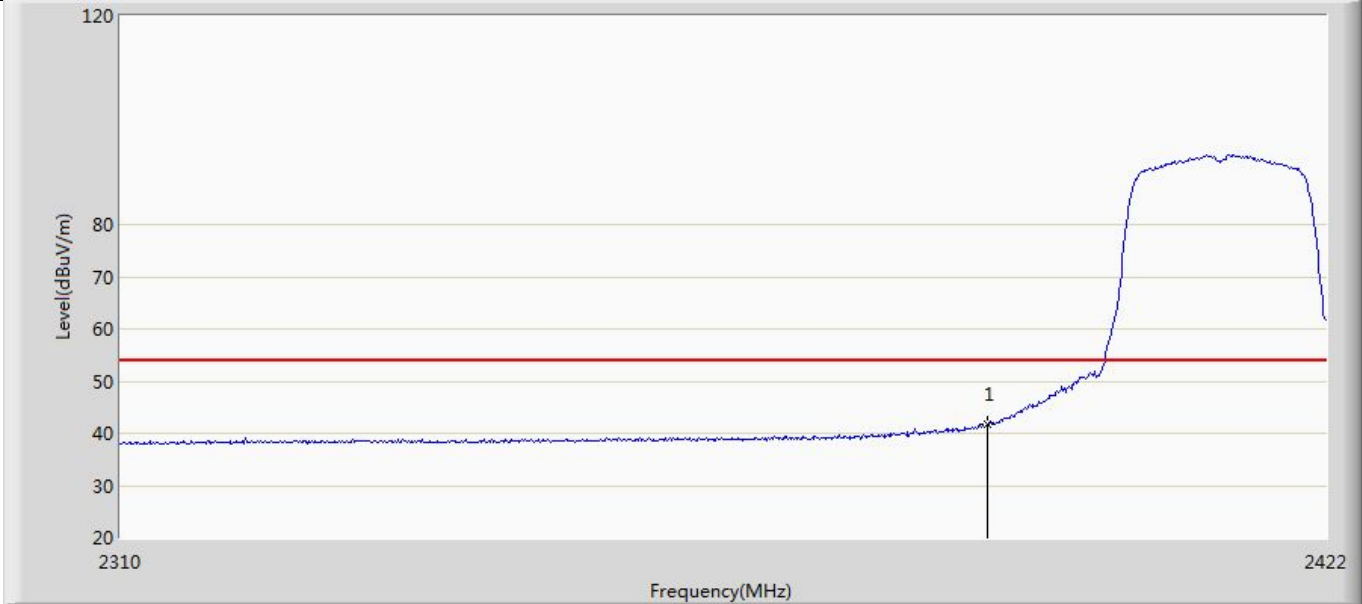
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	44.883	10.782	-9.117	54.000	34.102	AV

Profile: 24B0601R	Page No.: 11
Engineer: Yuliu	
Site: AC5	Time: 2024/11/28 - 20:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 3.3 Vdc
Note: Mode 2 : Transmit at 2412MHz by 802.11g with Aux	



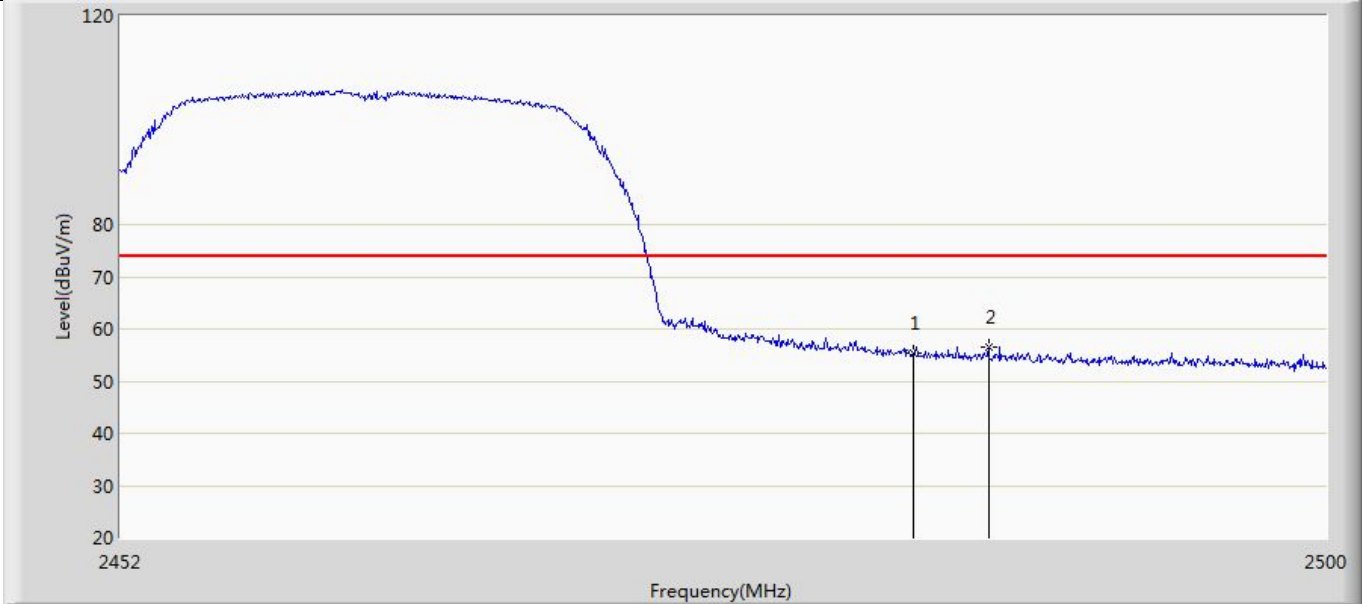
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	52.642	18.541	-21.358	74.000	34.102	PK

Profile: 24B0601R	Page No.: 12
Engineer: Yuliu	
Site: AC5	Time: 2024/11/28 - 21:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 3.3 Vdc
Note: Mode 2 : Transmit at 2412MHz by 802.11g with Aux	



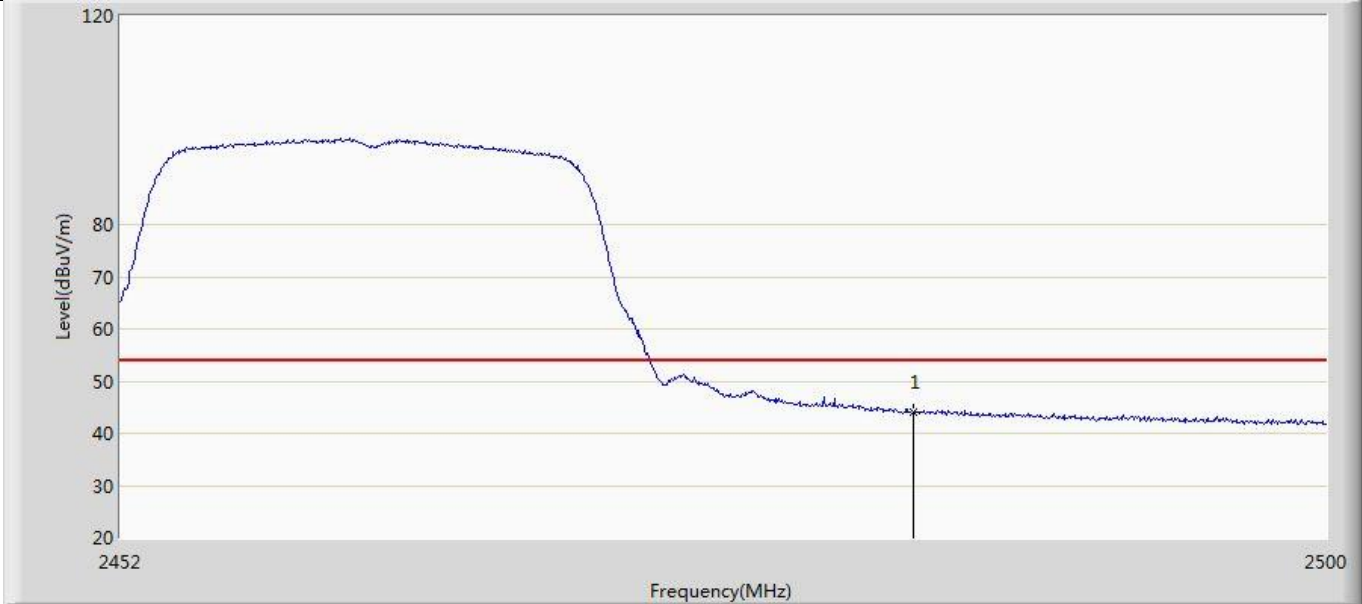
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	41.754	7.653	-12.246	54.000	34.102	AV

Profile: 24B0601R	Page No.: 13
Engineer: Yuliu	
Site: AC5	Time: 2024/11/28 - 21:03
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3 Vdc
Note: Mode 2 : Transmit at 2462MHz by 802.11g with Aux	



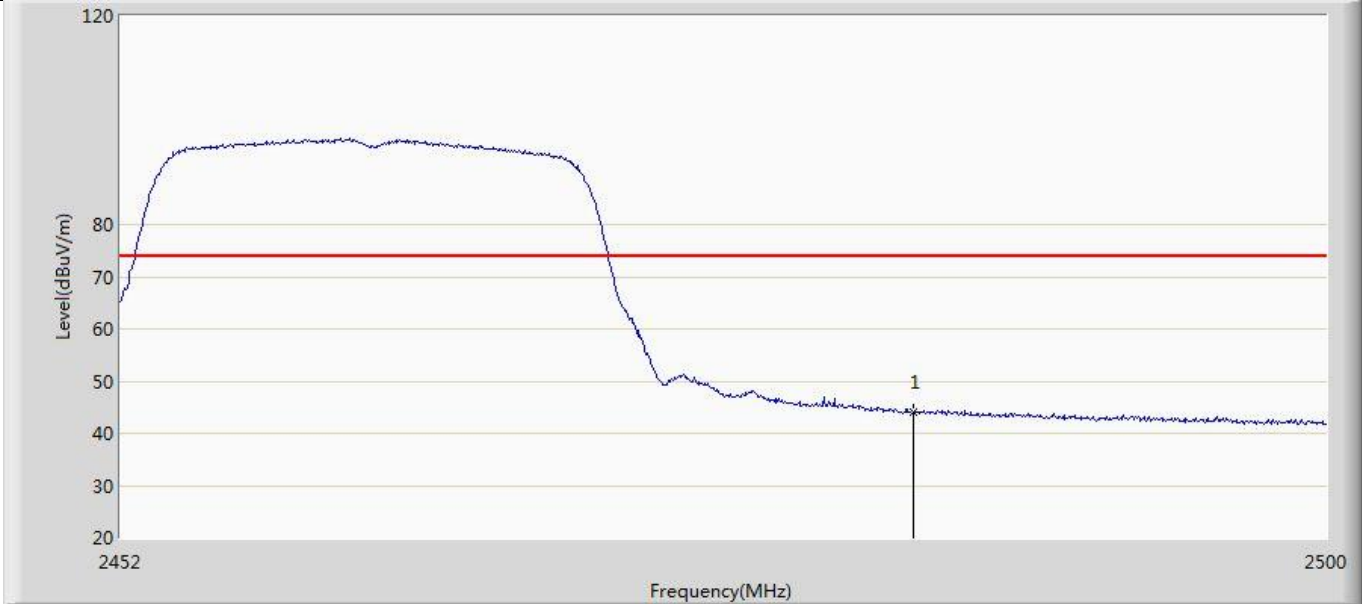
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2483.500	55.305	21.192	-18.695	74.000	34.114	PK
2	*	2486.464	56.503	22.366	-17.497	74.000	34.137	PK

Profile: 24B0601R	Page No.: 14
Engineer: Yuliu	
Site: AC5	Time: 2024/11/28 - 21:05
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3 Vdc
Note: Mode 2 : Transmit at 2462MHz by 802.11g with Aux	



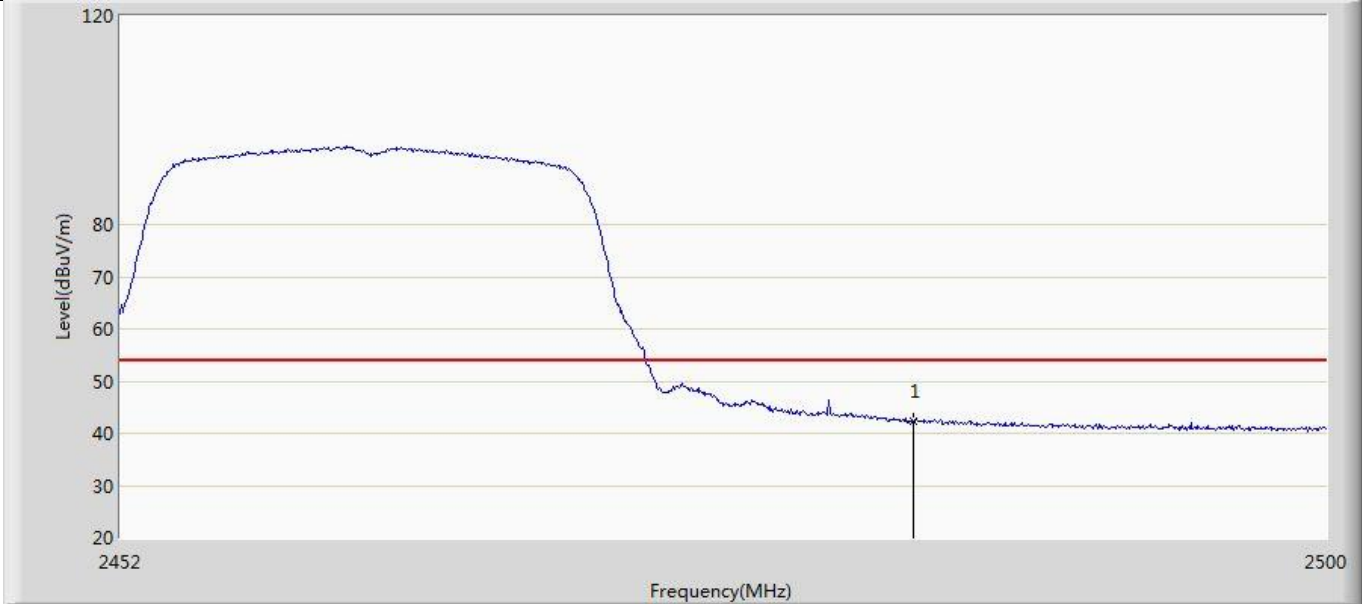
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	44.103	9.990	-9.897	54.000	34.114	AV

Profile: 24B0601R	Page No.: 15
Engineer: Yuliu	
Site: AC5	Time: 2024/11/28 - 21:06
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 3.3 Vdc
Note: Mode 2 : Transmit at 2462MHz by 802.11g with Aux	



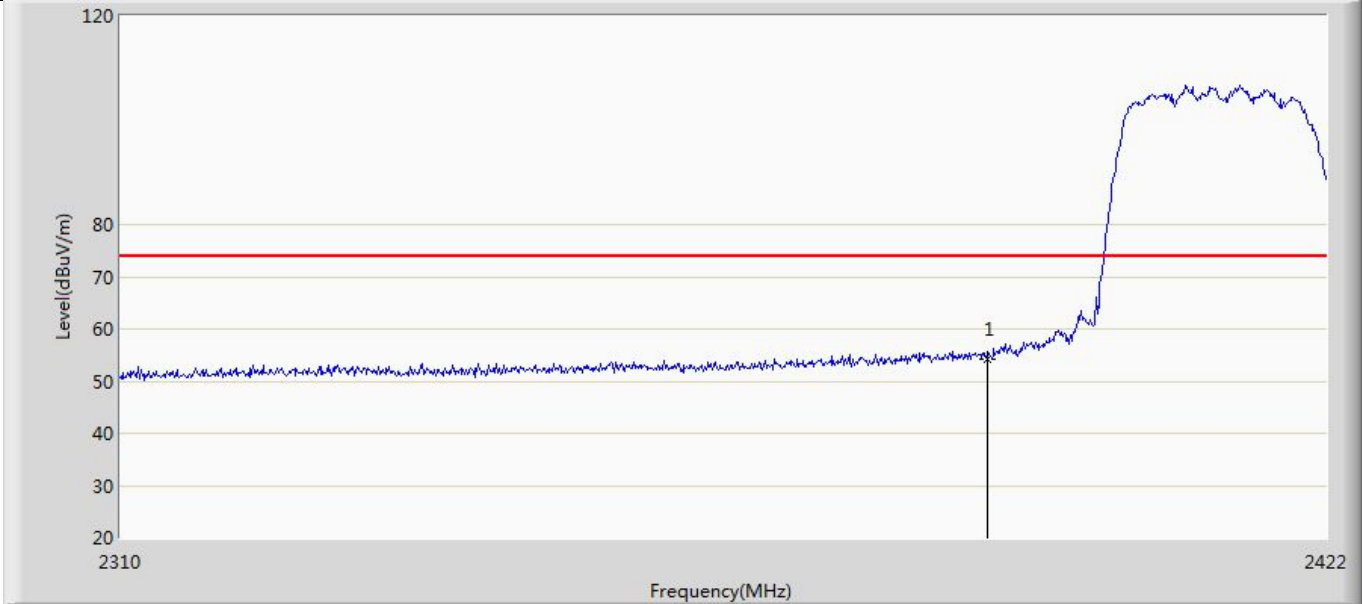
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	44.103	9.990	-29.897	74.000	34.114	PK

Profile: 24B0601R	Page No.: 16
Engineer: Yuliu	
Site: AC5	Time: 2024/11/28 - 21:08
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 3.3 Vdc
Note: Mode 2 : Transmit at 2462MHz by 802.11g with Aux	



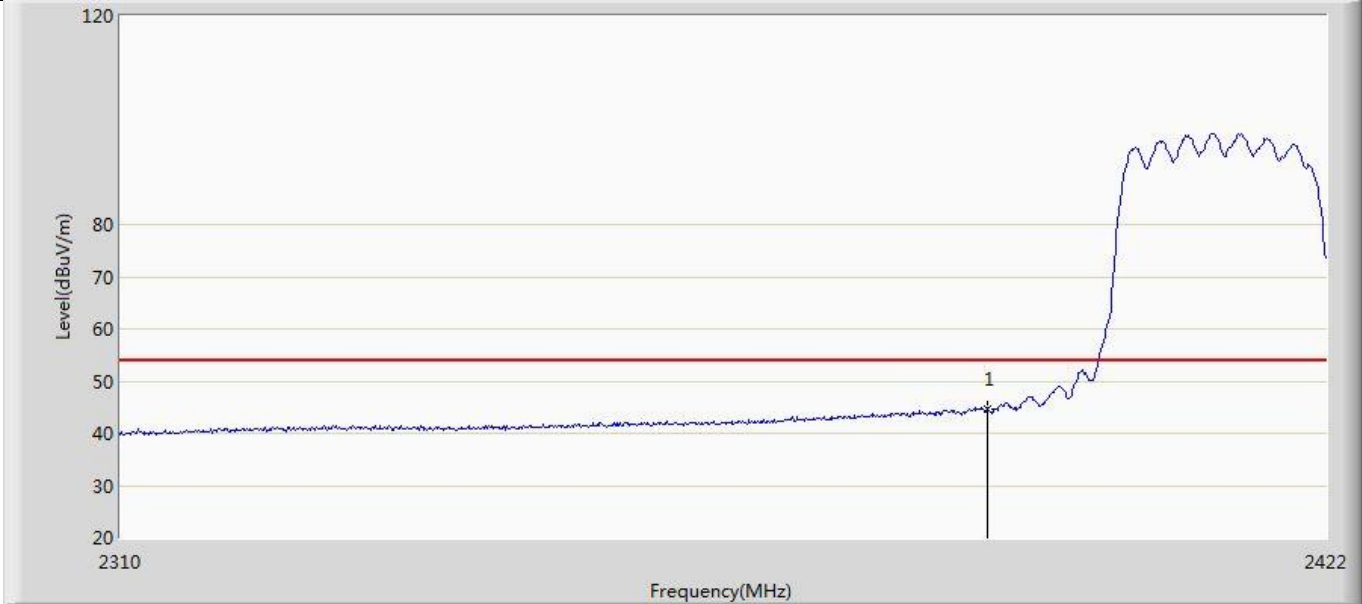
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	42.295	8.182	-11.705	54.000	34.114	AV

Profile: 24B0601R	Page No.: 17
Engineer: Yuliu	
Site: AC5	Time: 2024/11/28 - 22:04
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3 Vdc
Note: Mode 3 : Transmit at 2412MHz by 802.11n(20MHz) with Main+Aux	



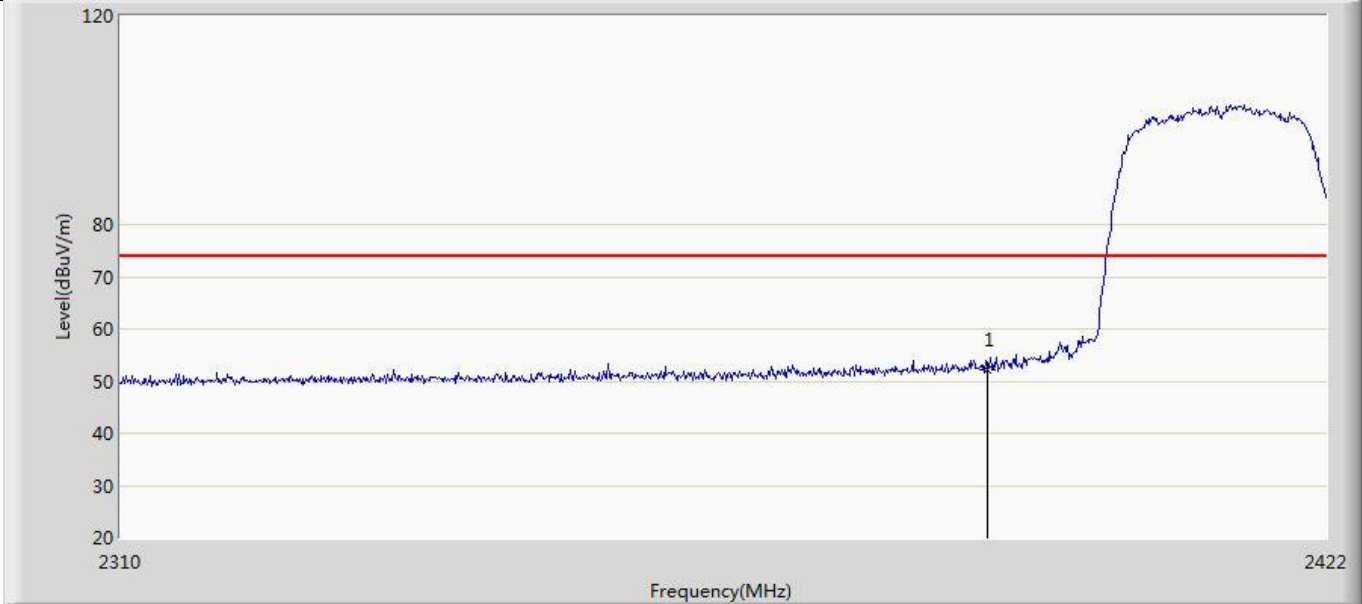
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	54.264	20.163	-19.736	74.000	34.102	PK

Profile: 24B0601R	Page No.: 18
Engineer: Yuliu	
Site: AC5	Time: 2024/11/28 - 22:14
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3 Vdc
Note: Mode 3 : Transmit at 2412MHz by 802.11n(20MHz) with Main+Aux	



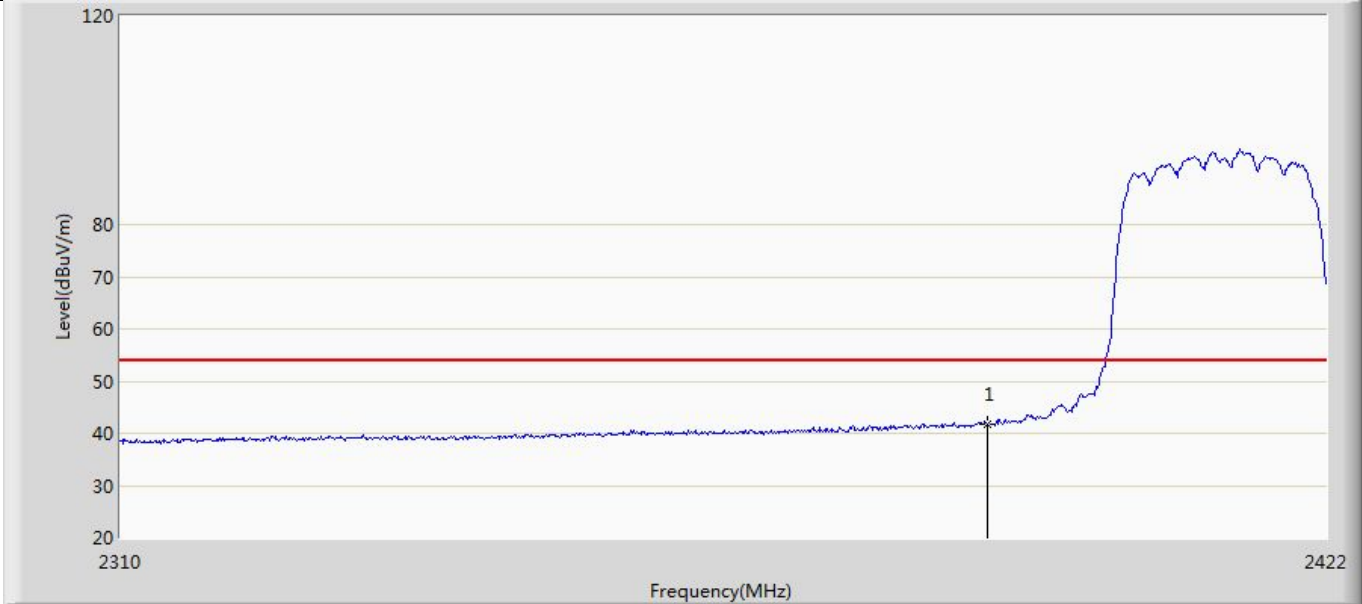
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	44.695	10.594	-9.305	54.000	34.102	AV

Profile: 24B0601R	Page No.: 19
Engineer: Yuliu	
Site: AC5	Time: 2024/11/28 - 22:17
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 3.3 Vdc
Note: Mode 3 : Transmit at 2412MHz by 802.11n(20MHz) with Main+Aux	



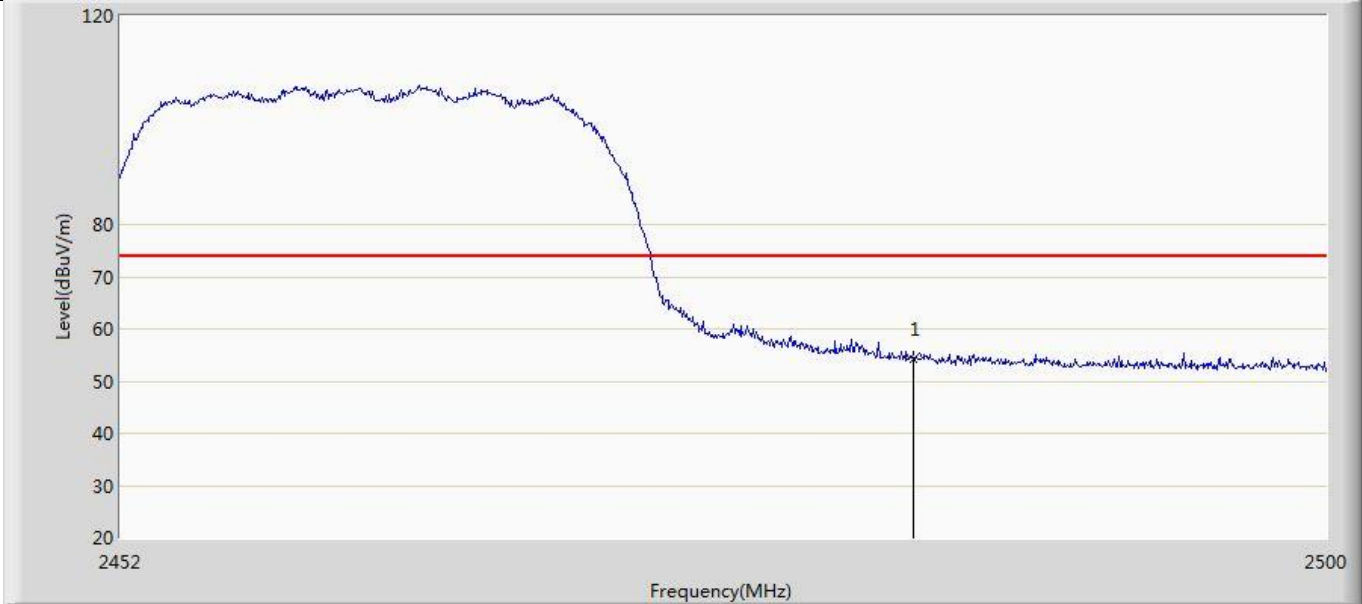
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	52.259	18.158	-21.741	74.000	34.102	PK

Profile: 24B0601R	Page No.: 20
Engineer: Yuliu	
Site: AC5	Time: 2024/11/28 - 22:18
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 3.3 Vdc
Note: Mode 3 : Transmit at 2412MHz by 802.11n(20MHz) with Main+Aux	



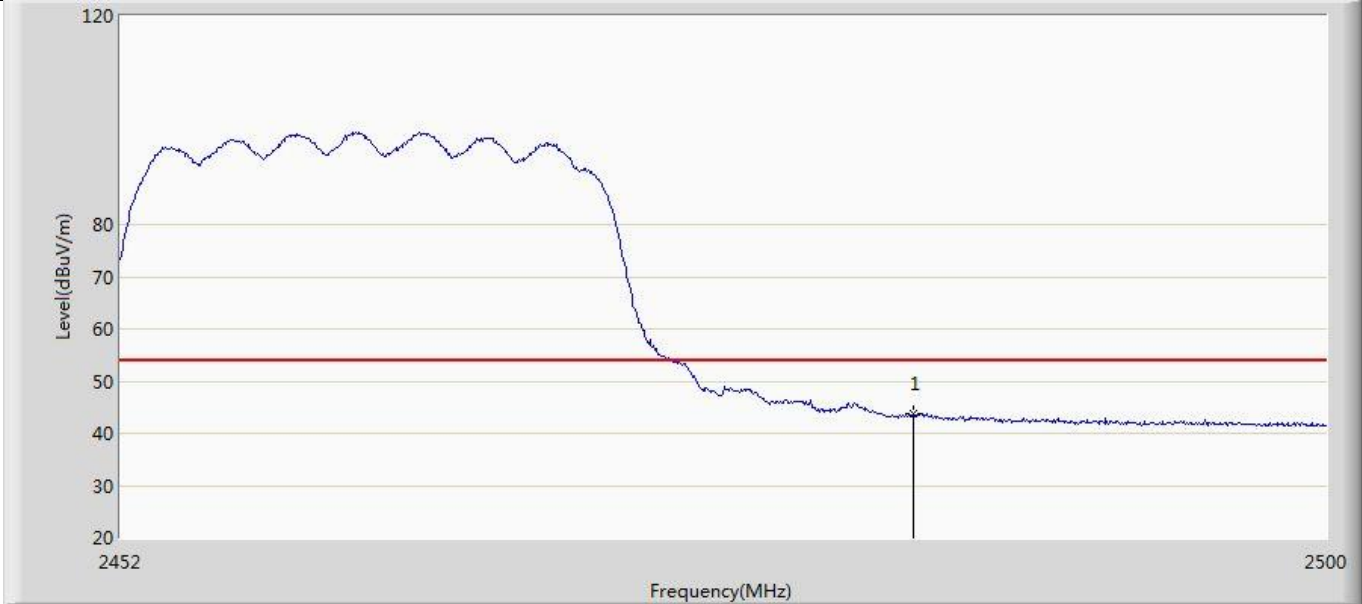
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	41.689	7.588	-12.311	54.000	34.102	AV

Profile: 24B0601R	Page No.: 21
Engineer: Yuliu	
Site: AC5	Time: 2024/11/28 - 22:20
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3 Vdc
Note: Mode 3 : Transmit at 2462MHz by 802.11n(20MHz) with Main+Aux	



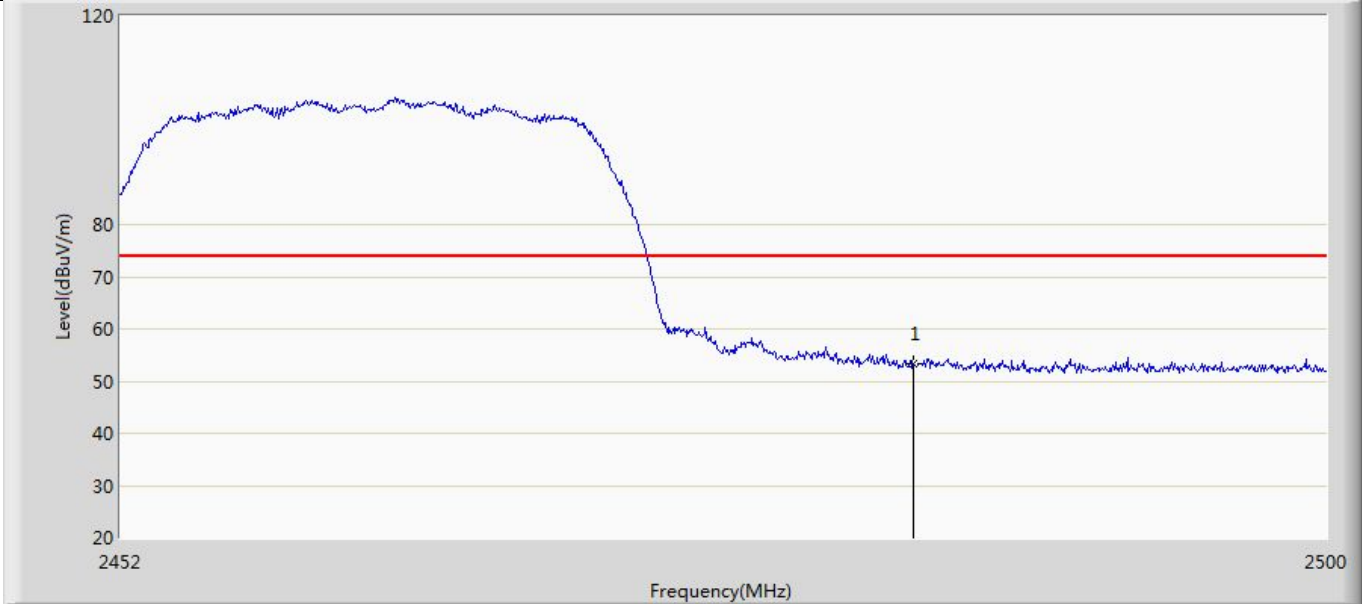
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	54.336	20.223	-19.664	74.000	34.114	PK

Profile: 24B0601R	Page No.: 22
Engineer: Yuliu	
Site: AC5	Time: 2024/11/28 - 22:24
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3 Vdc
Note: Mode 3 : Transmit at 2462MHz by 802.11n(20MHz) with Main+Aux	



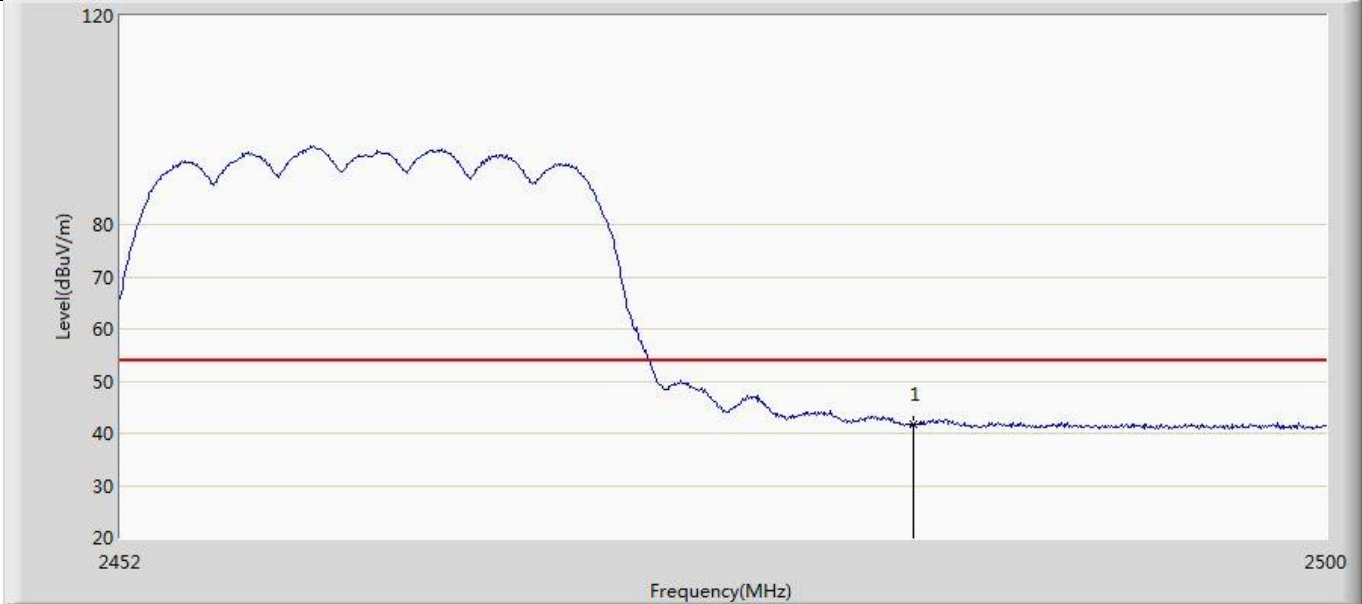
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	43.720	9.607	-10.280	54.000	34.114	AV

Profile: 24B0601R	Page No.: 23
Engineer: Yuliu	
Site: AC5	Time: 2024/11/28 - 22:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 3.3 Vdc
Note: Mode 3 : Transmit at 2462MHz by 802.11n(20MHz) with Main+Aux	



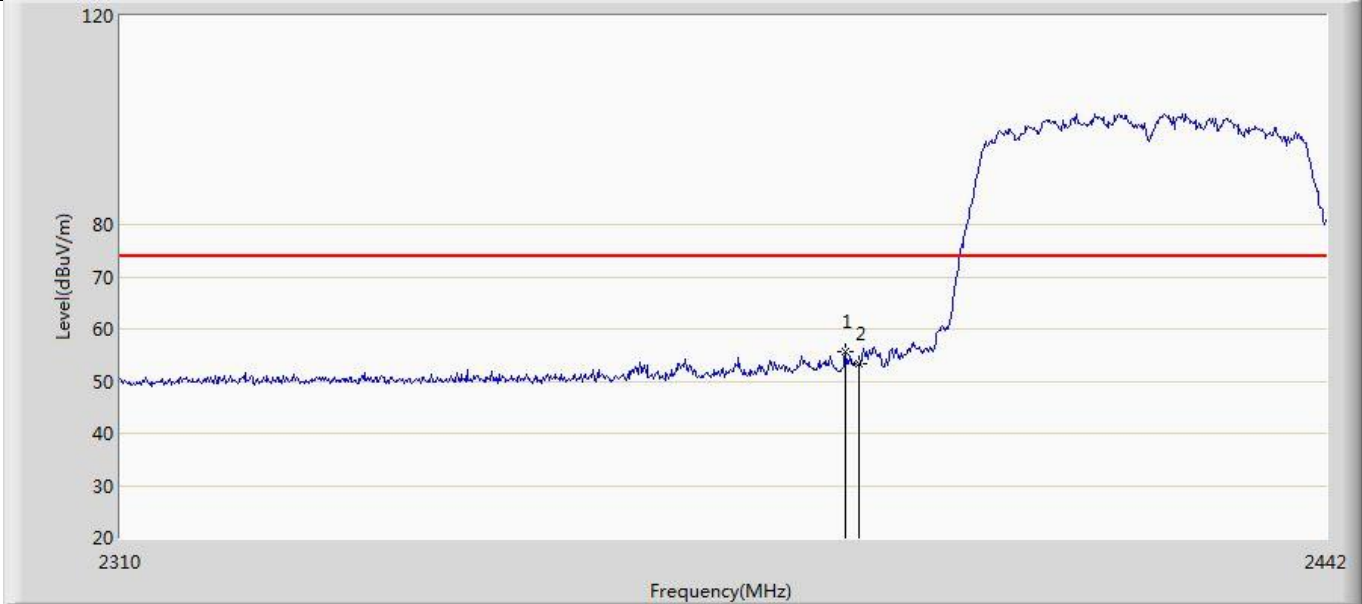
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	53.265	19.152	-20.735	74.000	34.114	PK

Profile: 24B0601R	Page No.: 24
Engineer: Yuliu	
Site: AC5	Time: 2024/11/28 - 22:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 3.3 Vdc
Note: Mode 3 : Transmit at 2462MHz by 802.11n(20MHz) with Main+Aux	



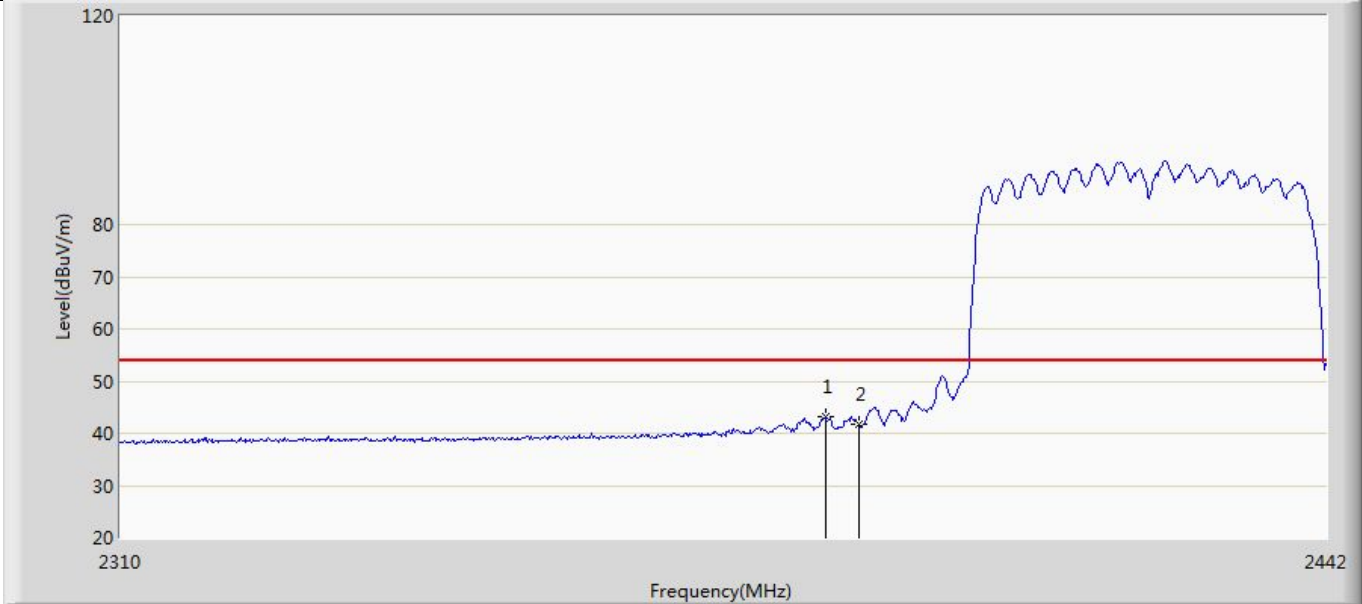
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	41.791	7.678	-12.209	54.000	34.114	AV

Profile: 24B0601R	Page No.: 25
Engineer: Yuliu	
Site: AC5	Time: 2024/11/28 - 22:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3 Vdc
Note: Mode 4 : Transmit at 2422MHz by 802.11n(40MHz) with Main+Aux	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2388.540	55.626	21.527	-18.374	74.000	34.100	PK
2		2390.000	53.368	19.267	-20.632	74.000	34.102	PK

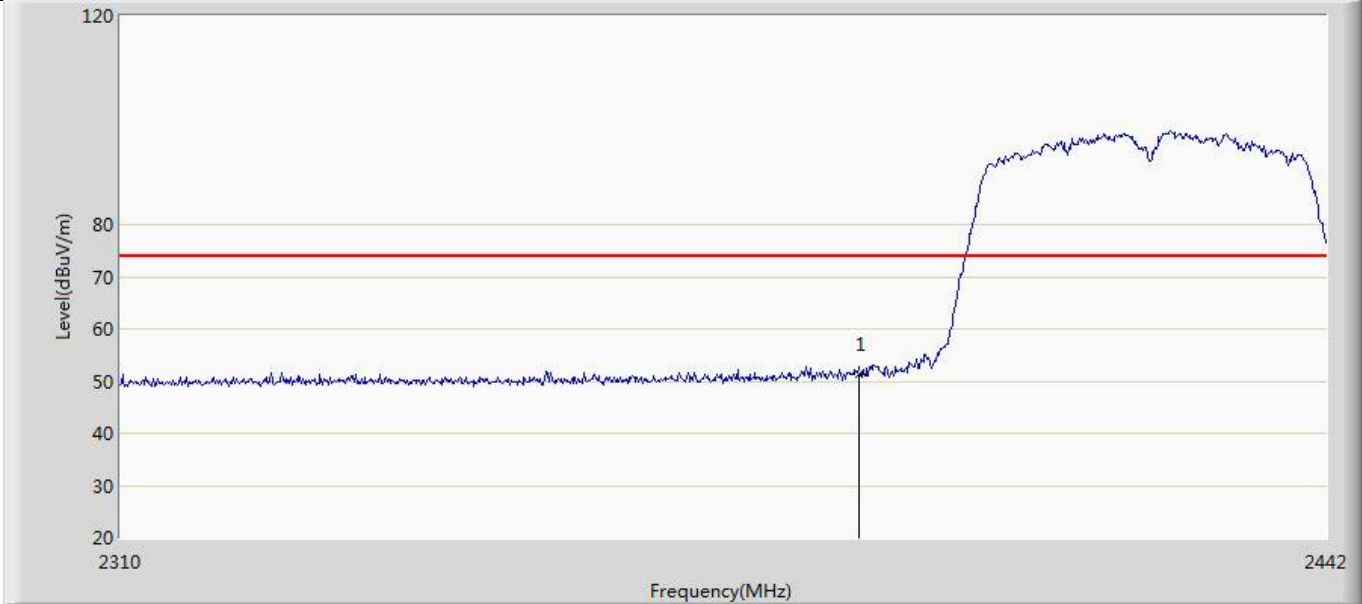
Profile: 24B0601R	Page No.: 26
Engineer: Yuliu	
Site: AC5	Time: 2024/11/28 - 22:39
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3 Vdc
Note: Mode 4 : Transmit at 2422MHz by 802.11n(40MHz) with Main+Aux	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2386.296	43.208	9.112	-10.792	54.000	34.096	AV
2		2390.000	41.648	7.547	-12.352	54.000	34.102	AV

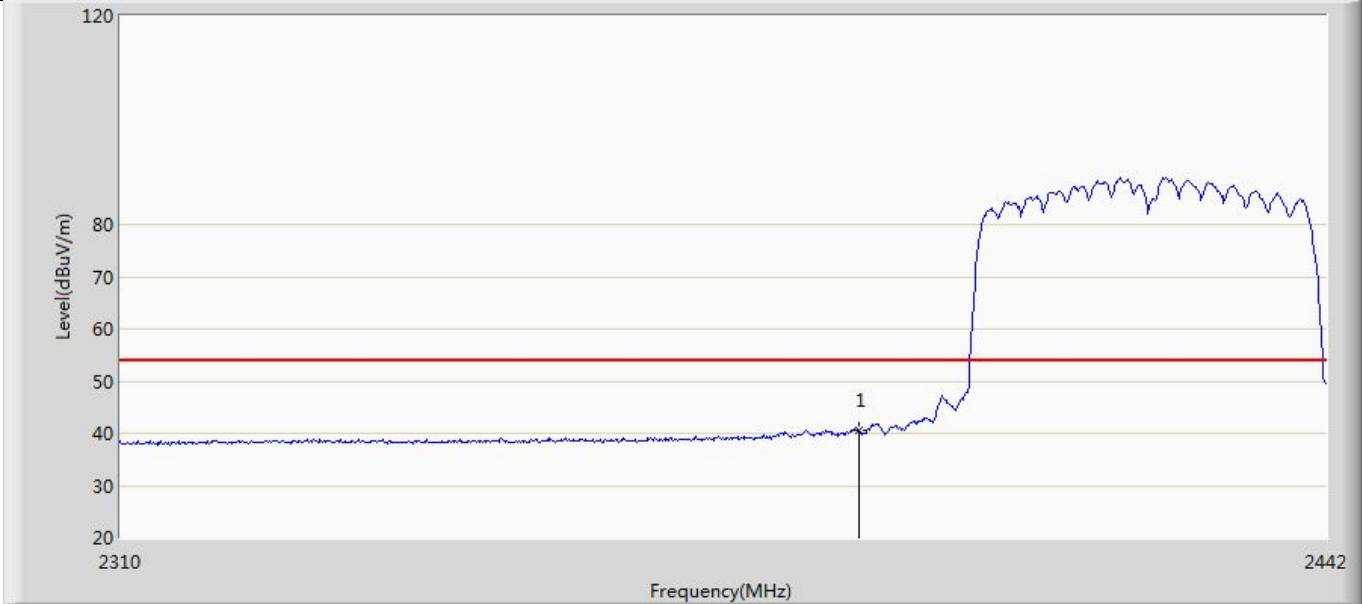


Profile: 24B0601R	Page No.: 27
Engineer: Yuliu	
Site: AC5	Time: 2024/11/28 - 22:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 3.3 Vdc
Note: Mode 4 : Transmit at 2422MHz by 802.11n(40MHz) with Main+Aux	



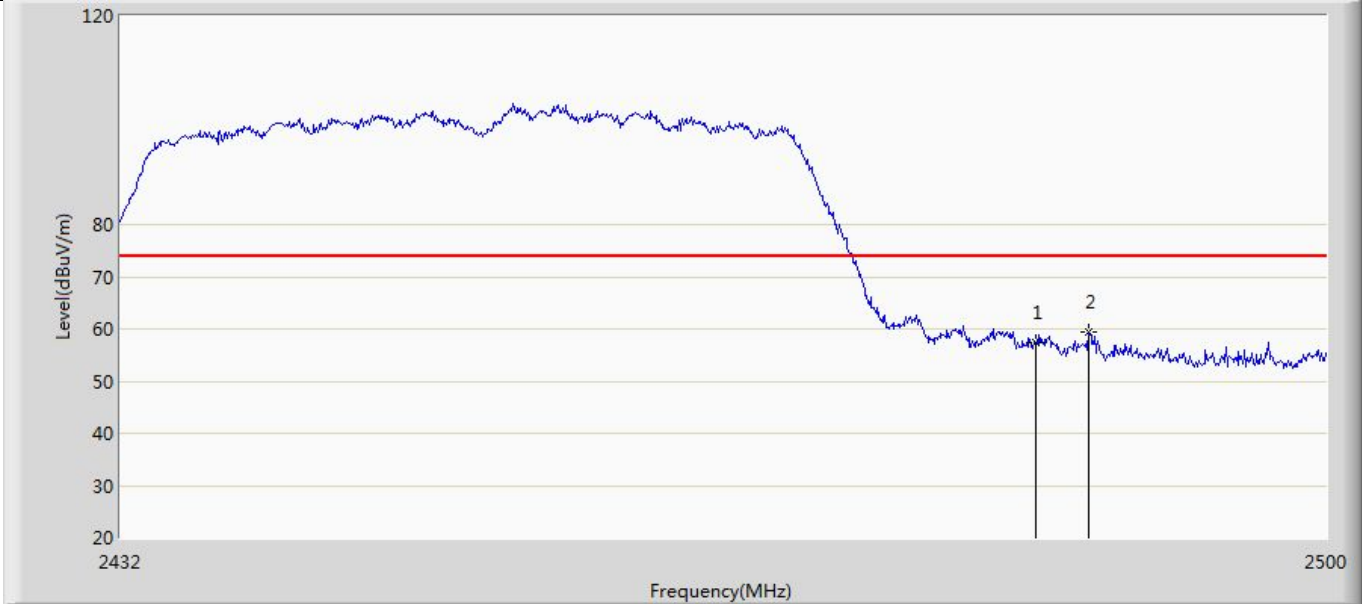
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	51.424	17.323	-22.576	74.000	34.102	PK

Profile: 24B0601R	Page No.: 28
Engineer: Yuliu	
Site: AC5	Time: 2024/11/28 - 22:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 3.3 Vdc
Note: Mode 4 : Transmit at 2422MHz by 802.11n(40MHz) with Main+Aux	



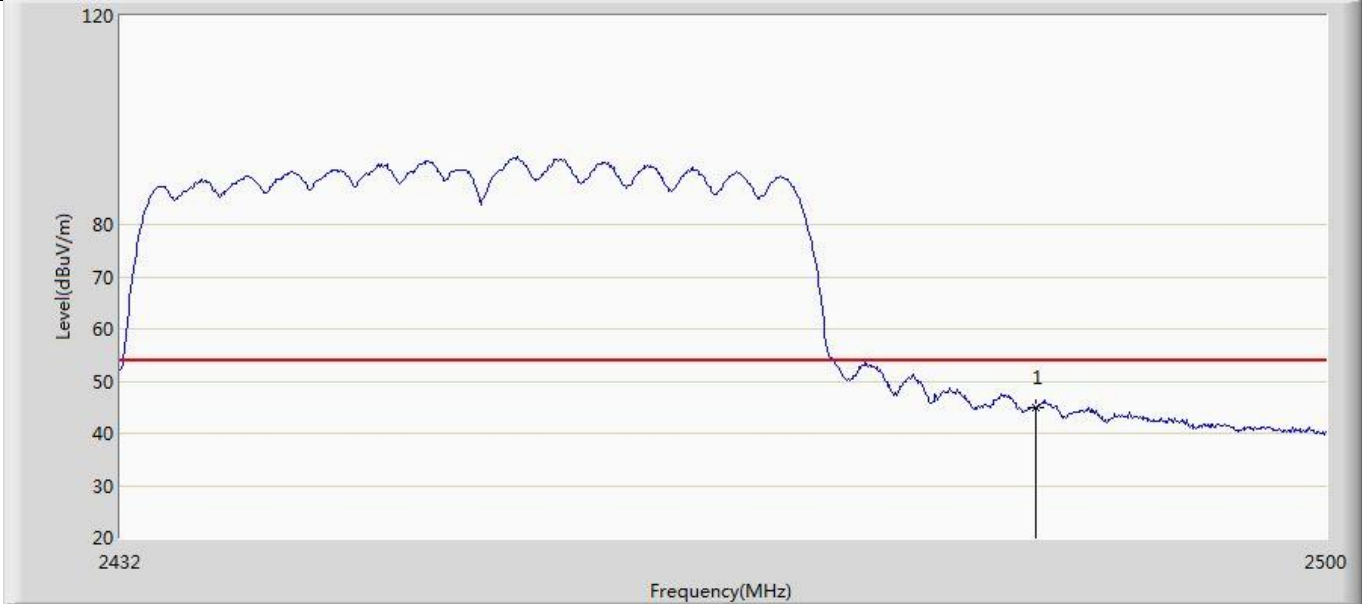
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	40.507	6.406	-13.493	54.000	34.102	AV

Profile: 24B0601R	Page No.: 29
Engineer: Yuliu	
Site: AC5	Time: 2024/11/28 - 22:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3 Vdc
Note: Mode 4 : Transmit at 2452MHz by 802.11n(40MHz) with Main+Aux	



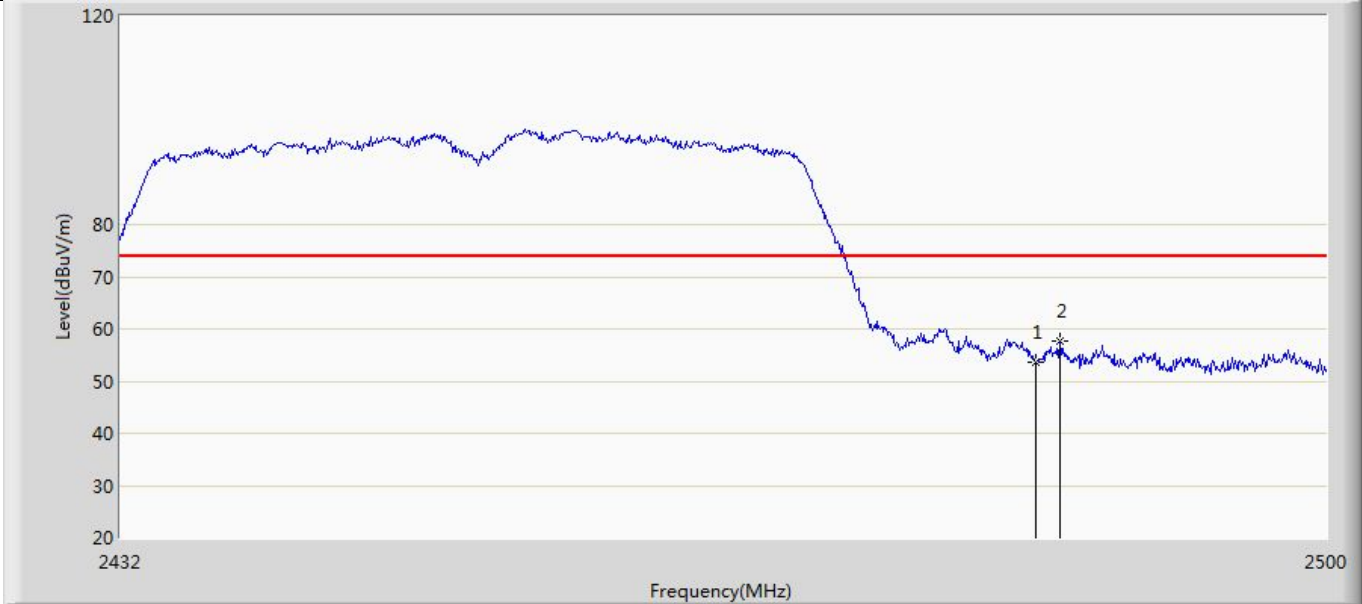
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2483.500	57.450	23.337	-16.550	74.000	34.114	PK
2	*	2486.468	59.409	25.272	-14.591	74.000	34.137	PK

Profile: 24B0601R	Page No.: 30
Engineer: Yuliu	
Site: AC5	Time: 2024/11/28 - 22:46
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3 Vdc
Note: Mode 4 : Transmit at 2452MHz by 802.11n(40MHz) with Main+Aux	



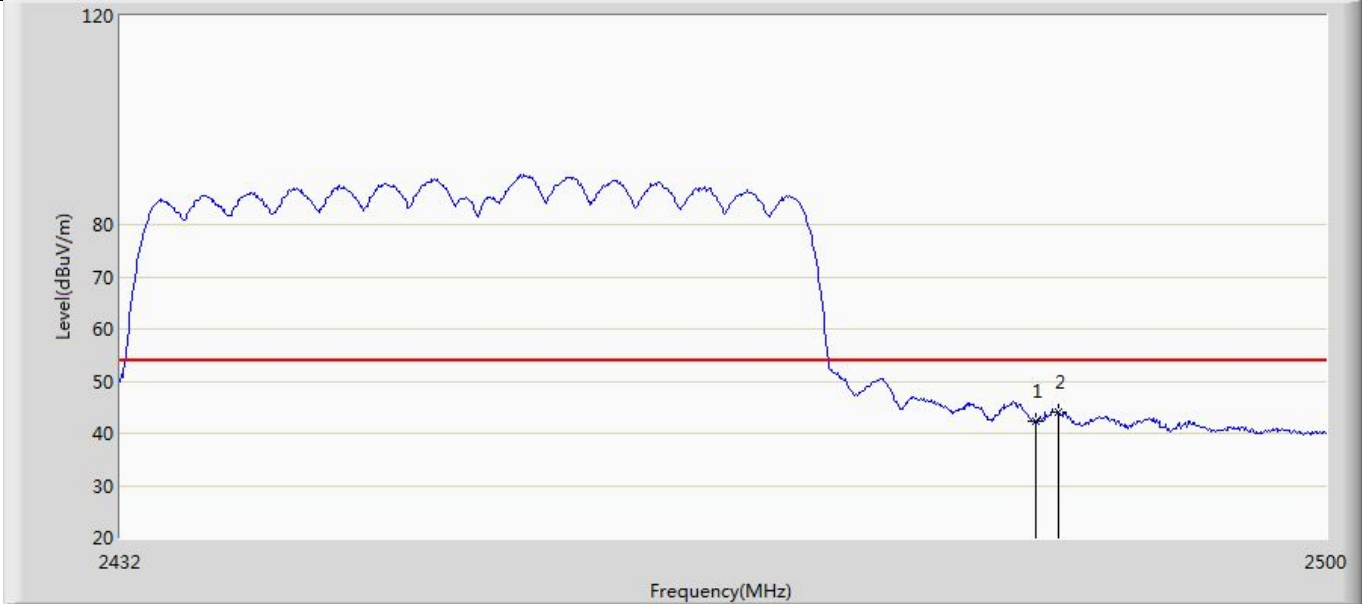
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	44.896	10.783	-9.104	54.000	34.114	AV

Profile: 24B0601R	Page No.: 31
Engineer: Yuliu	
Site: AC5	Time: 2024/11/28 - 22:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 3.3 Vdc
Note: Mode 4 : Transmit at 2452MHz by 802.11n(40MHz) with Main+Aux	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2483.500	53.710	19.597	-20.290	74.000	34.114	PK
2	*	2484.836	57.815	23.691	-16.185	74.000	34.124	PK

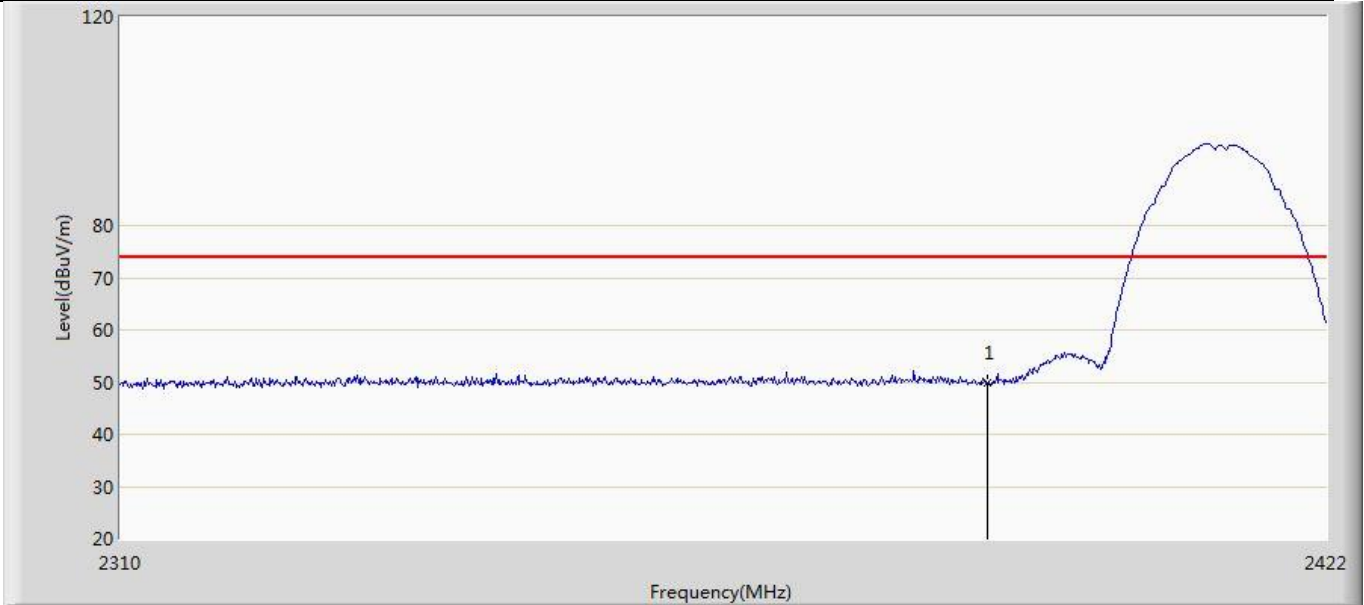
Profile: 24B0601R	Page No.: 32
Engineer: Yuliu	
Site: AC5	Time: 2024/11/28 - 22:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 3.3 Vdc
Note: Mode 4 : Transmit at 2452MHz by 802.11n(40MHz) with Main+Aux	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2483.500	42.253	8.140	-11.747	54.000	34.114	AV
2	*	2484.768	44.106	9.983	-9.894	54.000	34.124	AV

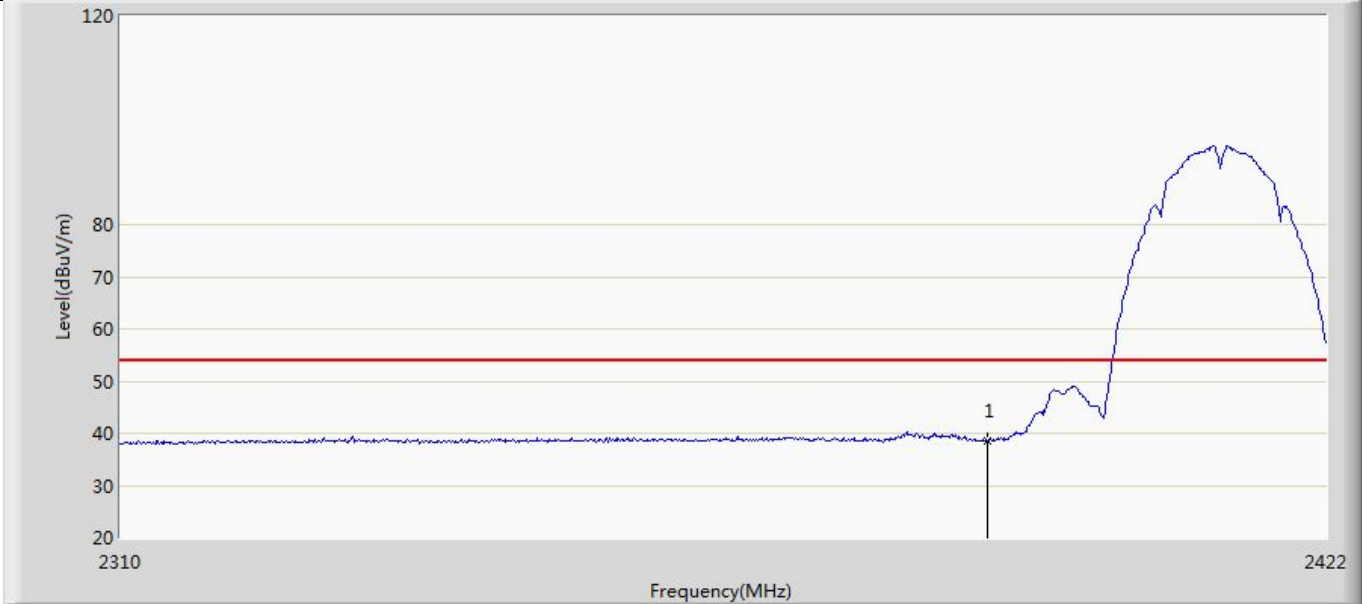
LG North America 65-inch antenna

Profile: 24B0601R	Page No.: 1
Engineer: Yuliu	
Site: AC5	Time: 2024/11/28 - 20:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3 Vdc
Note: Mode 1 : Transmit at 2412MHz by 802.11b with Aux	



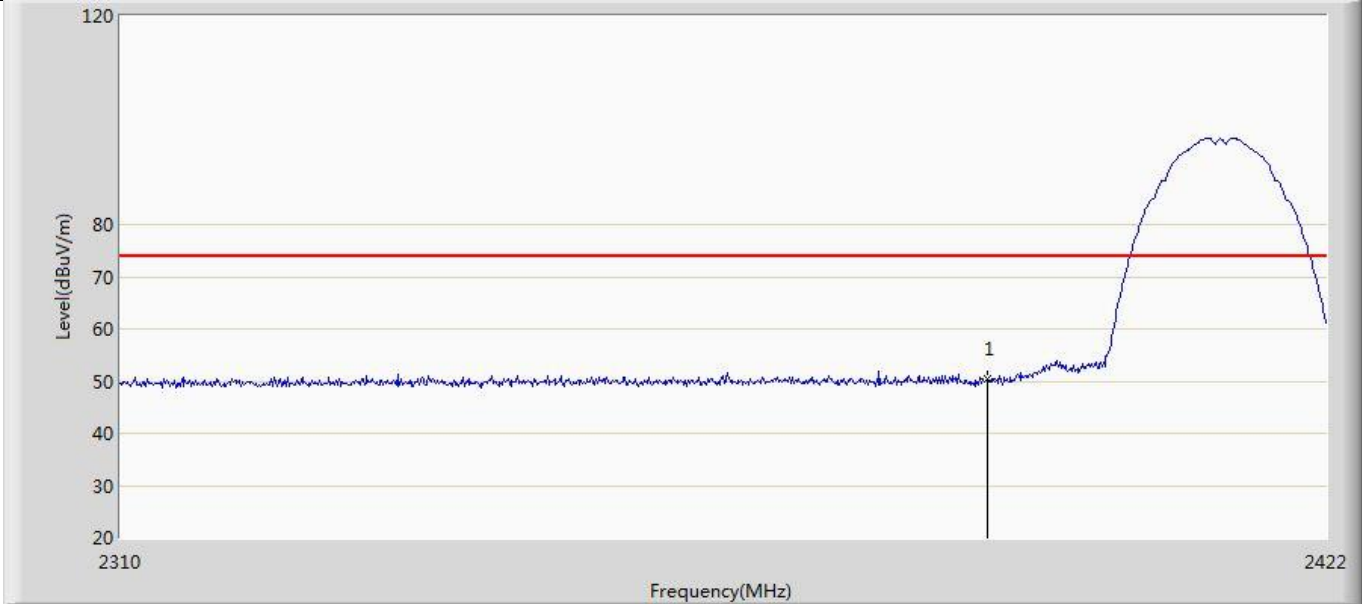
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	49.915	15.814	-24.085	74.000	34.102	PK

Profile: 24B0601R	Page No.: 2
Engineer: Yuliu	
Site: AC5	Time: 2024/11/28 - 20:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3 Vdc
Note: Mode 1 : Transmit at 2412MHz by 802.11b with Aux	



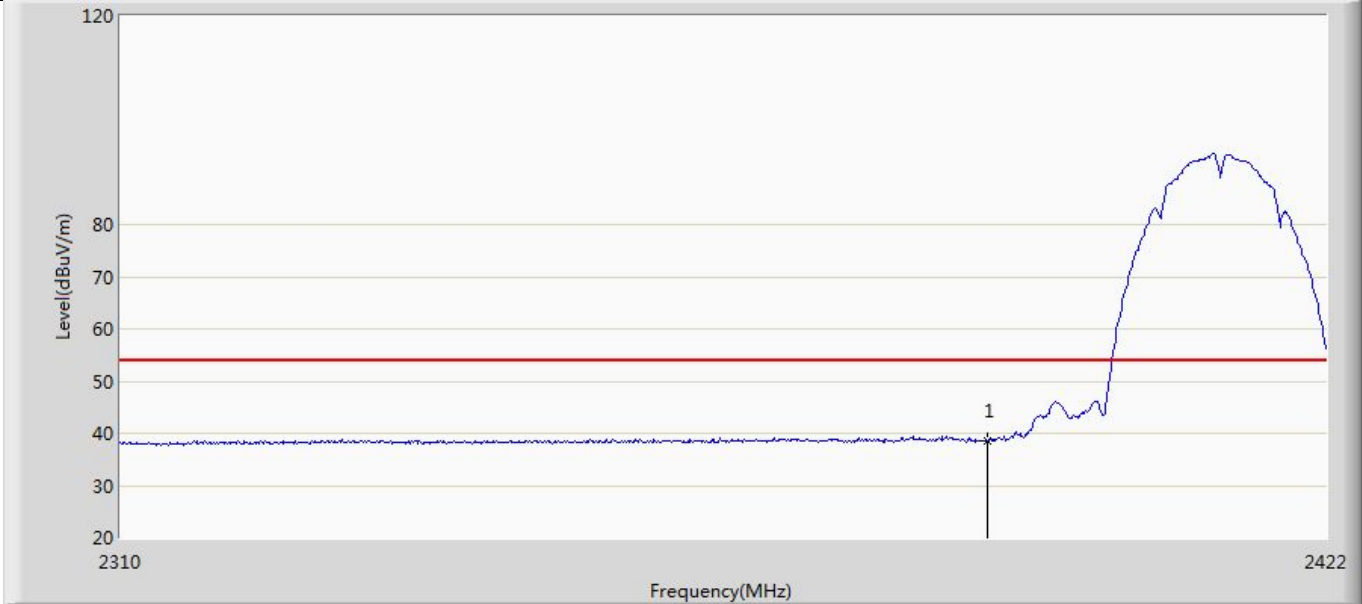
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	38.616	4.515	-15.384	54.000	34.102	AV

Profile: 24B0601R	Page No.: 3
Engineer: Yuliu	
Site: AC5	Time: 2024/11/28 - 20:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 3.3 Vdc
Note: Mode 1 : Transmit at 2412MHz by 802.11b with Aux	



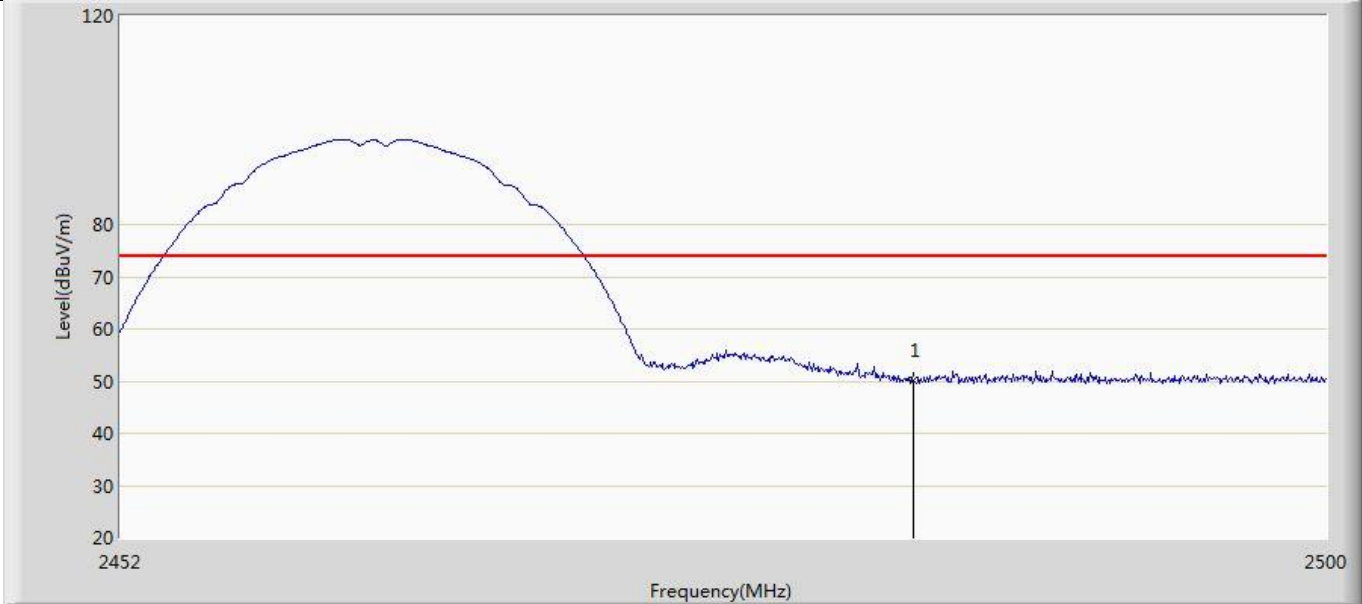
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	50.330	16.229	-23.670	74.000	34.102	PK

Profile: 24B0601R	Page No.: 4
Engineer: Yuliu	
Site: AC5	Time: 2024/11/28 - 20:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 3.3 Vdc
Note: Mode 1 : Transmit at 2412MHz by 802.11b with Aux	



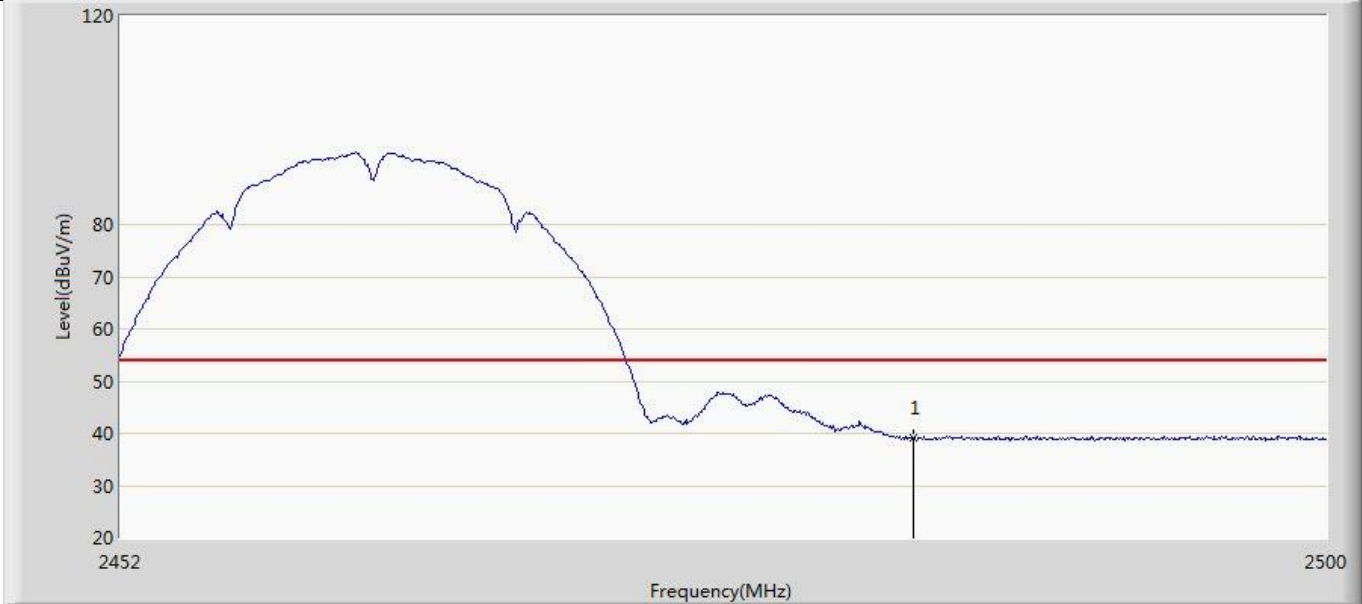
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	38.497	4.396	-15.503	54.000	34.102	AV

Profile: 24B0601R	Page No.: 5
Engineer: Yuliu	
Site: AC5	Time: 2024/11/28 - 20:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3 Vdc
Note: Mode 1 : Transmit at 2462MHz by 802.11b with Aux	



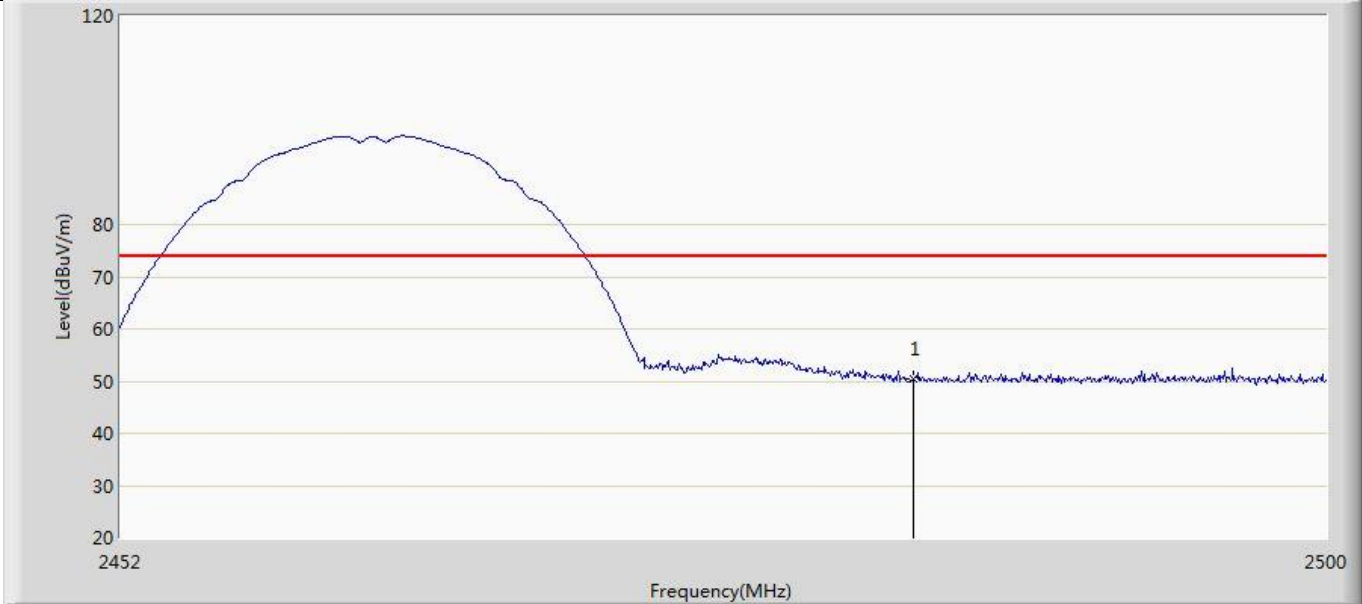
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	50.148	16.035	-23.852	74.000	34.114	PK

Profile: 24B0601R	Page No.: 6
Engineer: Yuliu	
Site: AC5	Time: 2024/11/28 - 20:46
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3 Vdc
Note: Mode 1 : Transmit at 2462MHz by 802.11b with Aux	



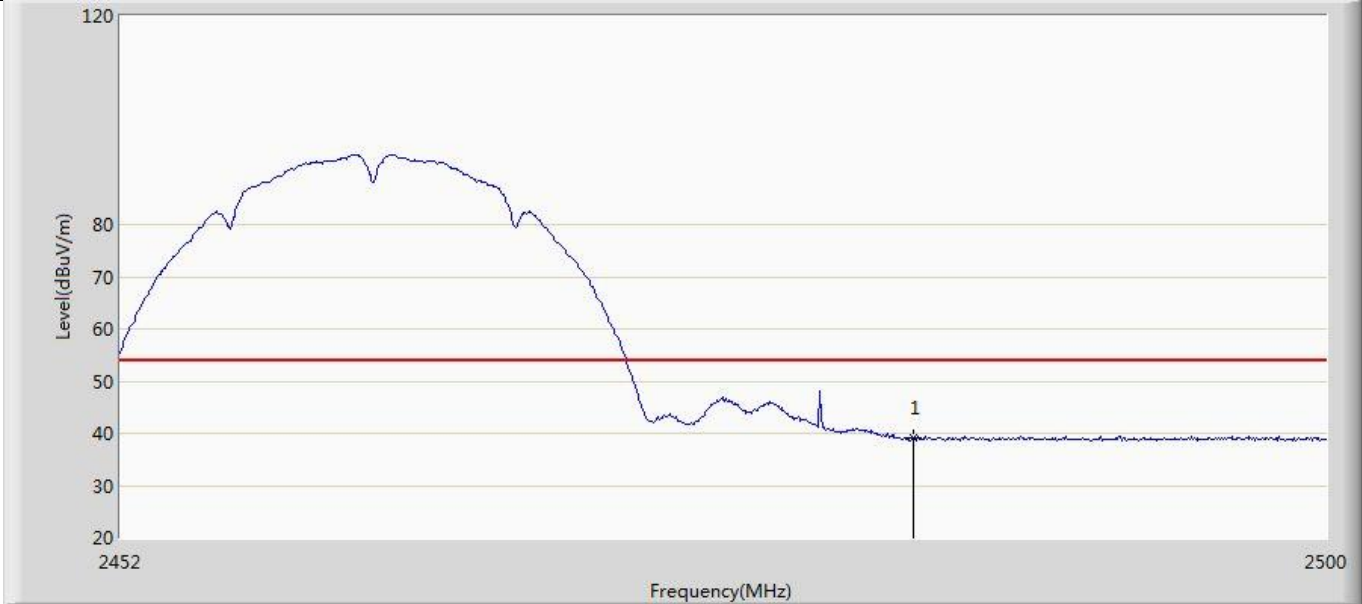
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	39.217	5.104	-14.783	54.000	34.114	AV

Profile: 24B0601R	Page No.: 7
Engineer: Yuliu	
Site: AC5	Time: 2024/11/28 - 20:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 3.3 Vdc
Note: Mode 1 : Transmit at 2462MHz by 802.11b with Aux	



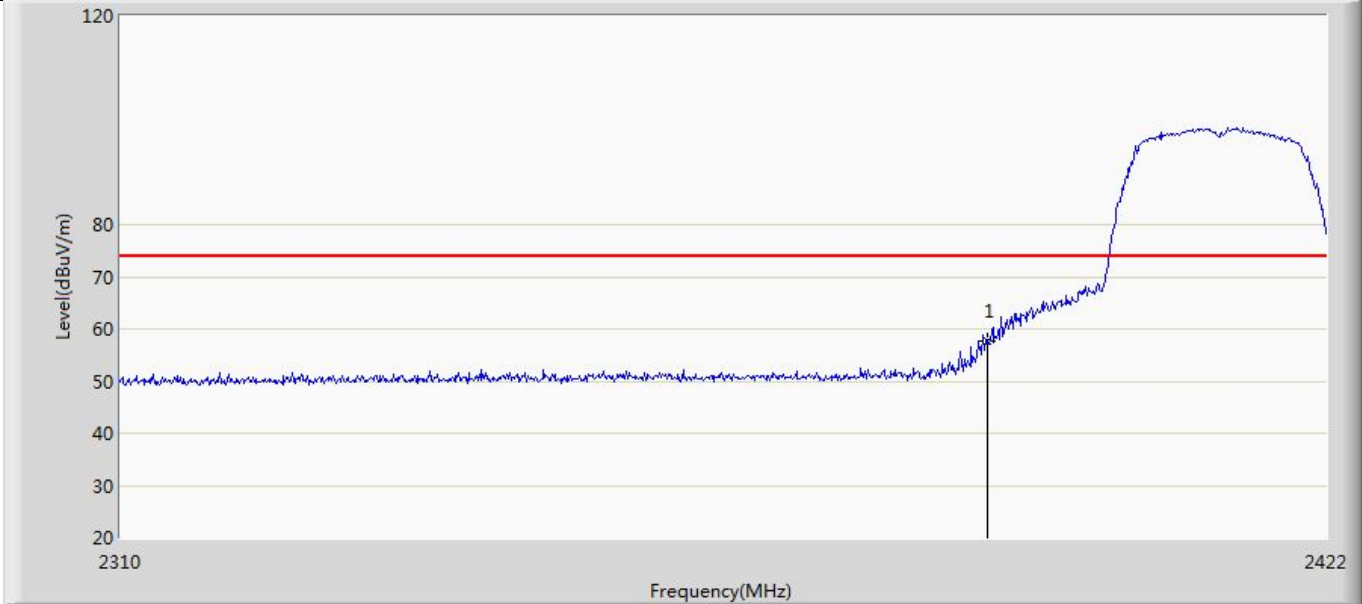
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	50.425	16.312	-23.575	74.000	34.114	PK

Profile: 24B0601R	Page No.: 8
Engineer: Yuliu	
Site: AC5	Time: 2024/11/28 - 20:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: SKI.WB663U.2	Power: 3.3 Vdc
Note: Mode 1 : Transmit at 2462MHz by 802.11b with Aux	



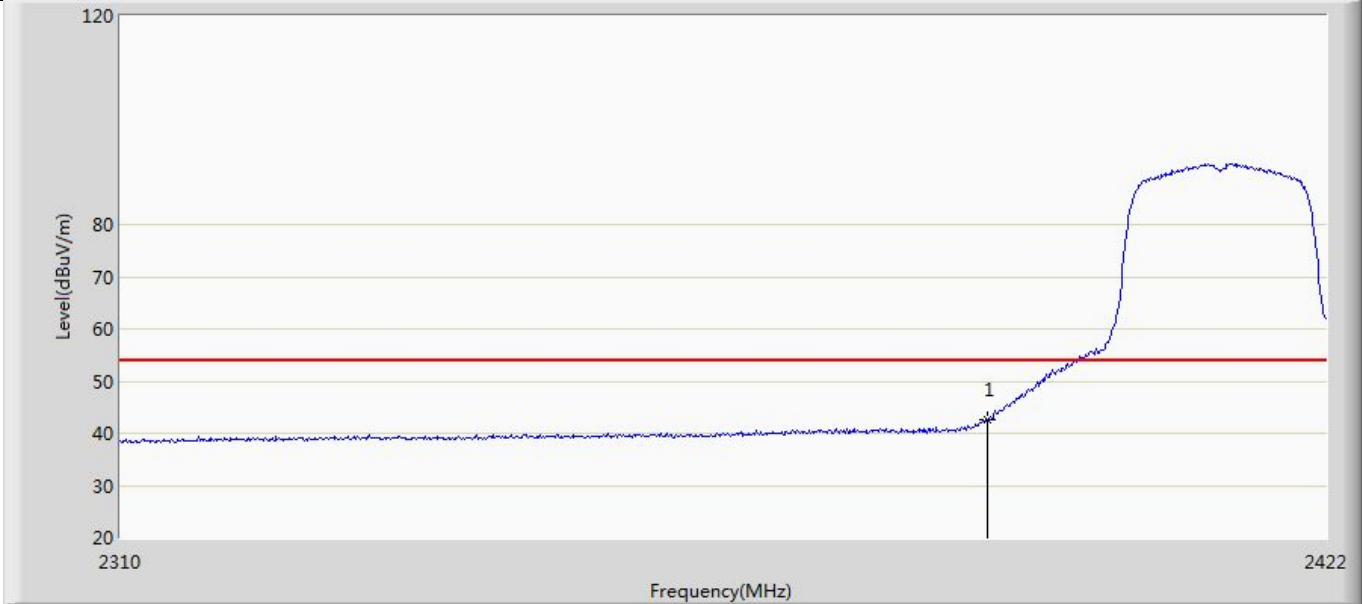
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	39.022	4.909	-14.978	54.000	34.114	AV

Profile: 24B0601R	Page No.: 9
Engineer: Yuliu	
Site: AC5	Time: 2024/11/28 - 20:51
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3 Vdc
Note: Mode 2 : Transmit at 2412MHz by 802.11g with Aux	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	57.746	23.645	-16.254	74.000	34.102	PK

Profile: 24B0601R	Page No.: 10
Engineer: Yuliu	
Site: AC5	Time: 2024/11/28 - 20:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: SKI.WB663U.2	Power: 3.3 Vdc
Note: Mode 2 : Transmit at 2412MHz by 802.11g with Aux	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	42.502	8.401	-11.498	54.000	34.102	AV