FCC TEST REPORT

Foi

Voice-Controlled Intelligent Shopper

Model Number: 999.11000611

FCC ID: 2AHU499911000611

Report Number : WT168002799

Test Laboratory : Shenzhen Academy of Metrology and Quality Inspection

National Digital Electronic Product Testing Center

Site Location : No.4 TongFa Road, Xili Town, Nanshan District,

Shenzhen, China

Tel : 0086-755-86009898

Fax : 0086-755-86009898-31396

Web: www.smq.com.cn

Test report declaration

Applicant : SEARS Brands Management Corporation

Address : 3333 Beverly Road, DC-159B, Hoffman Estates, IL 60179

EUT : Voice-Controlled Intelligent Shopper

Description

Model No : 999.11000611

FCC ID : 2AHU499911000611

Test Standards:

FCC Part 15 (October 1, 2015 Edition)

ANSI C63.10: 2013

The EUT described above is tested by Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory to determine the maximum emissions from the EUT. Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory is assumed full responsibility for the accuracy of the test results. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 and the energy emitted by the sample EUT tested as described in this report is in compliance with FCC Rules Part 15.207, 15.209 and 15.247.

The test report is valid for above tested sample only and shall not be reproduced in part without written approval of the laboratory.

Project Engineer:	Tg 33 F3	Date:	Jun.06,2016	
	(Chen Qichun)			
Checked by:	(Yang Dongping)	Date:	Jun.06,2016	
Approved by:	(Yang Dongping)	Date:	Jun.06,2016	
	(Lin Bin)			

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1. TEST RESULTS SUMMARY

Table 1 Test Results Summary

Test Items	FCC Rules	Test Results
6dB DTS bandwidth measurement	15.247 (a) (2)	Pass
Maximum conducted (average) output power	15.247 (b)	Pass
Maximum Power Spectral Density Level	15.247 (e)	Pass
Conducted Band Edges and Spurious	15.247 (d)	Pass
	15.247 (d)	
Radiated Band Edges and Spurious	15.209	Pass
	15.205	
Conducted emission test for AC power port	15.207	Pass
Antonna Daguiroment	15.203	Daga
Antenna Requirement	15.247 (b)	Pass

Remark: " N/A" means " Not applicable."

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2. GENERAL INFORMATION

2.1. Report information

- 2.1.1.This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that SMQ approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that SMQ in any way guarantees the later performance of the product/equipment.
- 2.1.2. The sample/s mentioned in this report is/are supplied by Applicant, SMQ therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.
- 2.1.3. Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through SMQ, unless the applicant has authorized SMQ in writing to do so.

2.2. Laboratory Accreditation and Relationship to Customer

The testing report were performed by the Shenzhen Academy of Metrology and quality Inspection EMC Laboratory (Guangdong EMC compliance testing center), in their facilities located at No.4 TongFa Road, Xili Town, Nanshan District, Shenzhen, China. At the time of testing, Laboratory is accredited by the following organizations:

China National Accreditation Service for Conformity Assessment (CNAS) accredits the Laboratory for conformance to FCC standards, EMC international standards and EN standards. The Registration Number is CNAS L0579.

The Laboratory is listed in the United States of American Federal Communications Commission (FCC), and the registration number are 806614 (3m anechoic chamber), 446246 (10m anechoic chamber) and 994606 (10m anechoic chamber).

The Laboratory is registered to perform emission tests with Industry Canada (IC), and the registration number is 11177A-1.

TUV Rhineland accredits the Laboratory for conformance to IEC and EN standards, the registration number is UA 50303686-0003.

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2.3. Measurement Uncertainty

Conducted Emission
9kHz~30MHz 3.5dB

Radiated Emission
30MHz~1000MHz 4.5dB
1GHz~25GHz 4.6dB

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3. PRODUCT DESCRIPTION

3.1.EUT Description

Description : Voice-Controlled Intelligent Shopper

Model Number : 999.11000611

Rated Input : DC 5V

Power supply : AC adaptor (built-in a 3.7V lithium battery)

Operate Frequency : 2.412GHz~2.462GHz

Antenna Designation : Chips antenna (Integrated)

Antenna Gain : 2.0dBi

AC adaptor : M/N: GQ07-050100-AU

Input: AC 100-240V, 50/60Hz, 0.3A Max

Output: DC 5V, 1.0A

Table 2 Working Frequency List

Channel	Center	Channel	Center
	Frequency(MHz)		Frequency(MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437		

3.2. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: 2AHU499911000611, filing to comply with Section 15.207, 15.209, 15.247 of the FCC Part 15, Subpart C Rules.

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3.3. Block Diagram of EUT Configuration

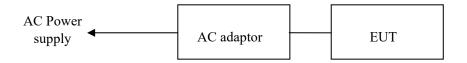


Figure 1 EUT setup

3.4. Operating Condition of EUT

Worst-case mode and channel used for power line conducted emissions was the mode and channel with the highest output power.

The fundamental of the EUT was investigated in three orthogonal orientations X, Y, Z, it was determined that X orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in X orientation.

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Date Rate	Channel
Maximum Peak Conducted Power	802.11b 1 Mbps 802.11g 6 Mbps 802.11n HT20 MCS0	Channel 1, 6, 11
6dB DTS bandwidth Power Spectral Density	802.11b 1 Mbps 802.11g 6 Mbps 802.11n HT20 MCS0	Channel 1, 6, 11
Spurious Emission	802.11b 1 Mbps 802.11g 6 Mbps 802.11n HT20 MCS0	Channel 1, 6, 11
Band Edge	802.11b 1 Mbps 802.11g 6 Mbps 802.11n HT20 MCS0	Channel 1, 11
Conducted emission test for AC power port	Worst-case mode	

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3.5. Support Equipment List

Table 3 Support Equipment List

Name	Model No	S/N	Manufacturer	FCC Approval

3.6. Test Conditions

Date of test: May.26, 2016-May.31, 2016

Date of EUT Receive: May.25, 2016

Temperature: 21-24°C

Relative Humidity: 49-55%

3.7. Special Accessories

Not available for this EUT intended for grant.

3.8. Equipment Modifications

Not available for this EUT intended for grant.

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4. TEST EQUIPMENT USED

Table 4 Test Equipment

No.	Equipment	Manufacturer	Model No.	Last Cal.	Cal.
					Interval
SB3319	EMI Test Receiver	Rohde & Schwarz	ESCS30	Dec.10,2015	1 Year
SB4357	AMN	Rohde & Schwarz	ENV216	Sep.25,2015	1 Year
SB8501/09	EMI Test Receiver	Rohde & Schwarz	ESU40	Mar.23, 2016	1 Year
SB3345	Loop Antenna	SCHWARZBECK	FMZB1516	Jan.07, 2016	1 Year
SB9060	Spectrum analyzer	Rohde & Schwarz	FSQ40	Apr.25, 2016	1 Year
SB3955	Broadband antenna	SCHWARZBECK	VULB9163	Jan.07, 2016	1 Year
SB8501/01	Horn Antenna	Rohde & Schwarz	HF907	Mar.21, 2016	1 Year
SB8501/10	Horn Antenna	Rohde & Schwarz	3160-09	Mar.28, 2014	3 Years
SB8501/17	Preamplifier	Rohde & Schwarz	SCU-18	Mar.21, 2016	1 Year
SB8501/16	Preamplifier	Rohde & Schwarz	SCU-26	Mar.21, 2016	1 Year
SB9721/05	Power Meter	Agilent	N1914A	Dec.28, 2015	1 Year
SB9721/06	Power Sensor	Agilent	E9304A	Dec.28, 2015	1 Year

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5. ON TIME, DUTY CYCLE AND MEASUREMENT METHODS

5.1.LIMITS

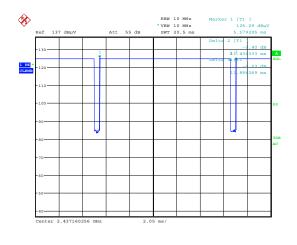
None; for reporting purposes only.

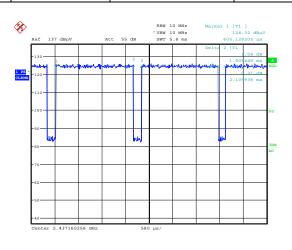
5.2. Test Procedure

Reference to KDB558074 D01 DTS Meas Guidance v03r05, Zero-Span Spectrum Analyzer Method.

5.3. Test Data

Mode	ON Time	Period	Duty Cycle	Duty Cycle	1/T
	(ms)	(ms)	%	Correction	Minimum VBW
	Т			Factor	(kHz)
				(dB)	
802.11b	11.438	11.898	96.1	0.3	0.1
802.11g	1.905	2.110	90.3	0.9	1
802.11n HT20	1.766	1.952	90.5	0.9	1

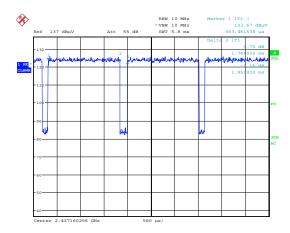




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Date: 26.MAY.2016 08:50:11

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OCB-V Date: 26.MAY.2016 08:56:24

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6. 6DB BANDWIDTH MEASUREMENT

6.1. Limits of 6dB Bandwidth Measurement

CFR 47 (FCC) part 15.247 (a) (2)

6.2. Test Procedure

Reference to KDB558074 D01 DTS Meas Guidance v03r05,

The transmitter output was connected to the spectrum analyzer.

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) \geq 3 x RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.3. Test Setup

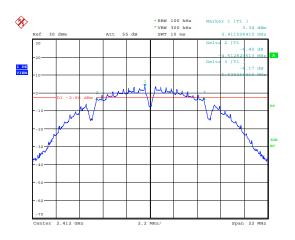


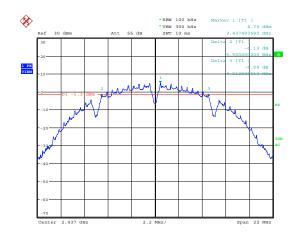
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6.4. Test Data

Table 5 6dB Bandwidth Test Data (802.11b)

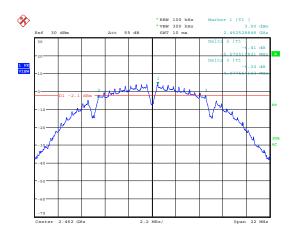
		• •
CHANNEL	6dB	
FREQUENCY	BANDWIDTH	results
(MHz)	(MHz)	
Channel 1	10.048	Pass
Channel 6	10.013	Pass
Channel 11	10.048	Pass





OCB-V

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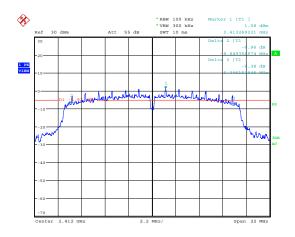


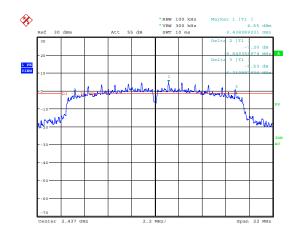
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Table 6 6dB Bandwidth Test Data (802.11g)

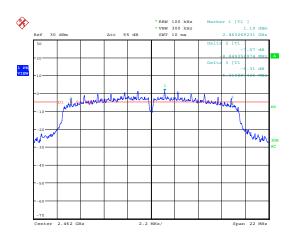
CHANNEL	6dB	
FREQUENCY	BANDWIDTH	results
(MHz)	(MHz)	
Channel 1	15.196	Pass
Channel 6	15.160	Pass
Channel 11	15.160	Pass





OCB-V

Date: 26.MAY.2016 09:24:2

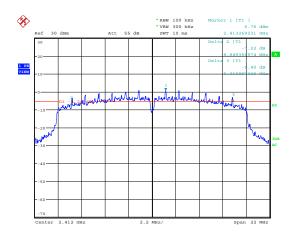


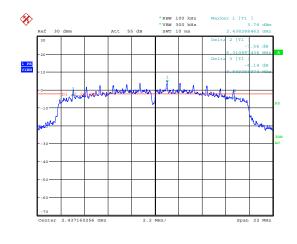
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Table 7 6dB Bandwidth Test Data (802.11n HT20)

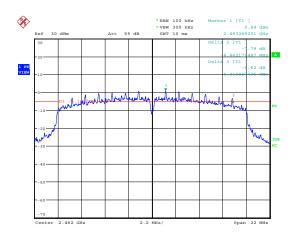
CHANNEL	6dB	
FREQUENCY	BANDWIDTH	results
(MHz)	(MHz)	
Channel 1	15.160	Pass
Channel 6	15.160	Pass
Channel 11	15.173	Pass





OCB-V

Date: 26.MAY.2016 09:03:28



OCB-V Date: 26.MAY.2016 09:09:41

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7. MAXIMUM CONDUCTED (AVERAGE) OUTPUT POWER

7.1. Limits of Maximum conducted (average) output power Measurement

CFR 47 (FCC) part 15.247 (b)

7.2. Test Procedure

Reference to KDB558074 D01 DTS Meas Guidance v03r05,

The transmitter output was connected to the RF power meter.

- a) Using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied.
- 1) The EUT is configured to transmit continuously, or to transmit with a constant duty factor.
- 2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
- 3) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
- b) If the transmitter does not transmit continuously, measure the duty cycle (x) of the transmitter output signal as described in Section 6.0.
- c) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
- d) Adjust the measurement in dBm by adding $10\log (1/x)$, where x is the duty cycle to the measurement result.

7.3. Test Data

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Table 8 Maximum Conducted (average) Output Power Test Data

			Maximum Conducted			
Model	Channel	Duty Factor	(average) Output	Limit (dBm)	Result	
		(dB)	Power	,		
			(dBm)			
802.11b	Channel 1	0.3	14.5	30	Pass	
802.11b	Channel 6	0.3	15.7	30	Pass	
802.11b	Channel 11	0.3	14.8	30	Pass	
802.11g	Channel 1	0.9	12.2	30	Pass	
802.11g	Channel 6	0.9	15.7	30	Pass	
802.11g	Channel 11	0.9	12.7	30	Pass	
802.11n	Channel 1	0.9	11.7	30	Pass	
802.11n	Channel 6	0.9	14.5	30	Pass	
802.11n	Channel 11	0.9	11.9	30	Pass	

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8. MAXIMUM POWER SPECTRAL DENSITY LEVEL MEASUREMENT

8.1. Limits of Maximum Power Spectral Density Level Measurement

CFR 47 (FCC) part 15.247 (e)

8.2. Test Procedure

Reference to KDB558074 D01 DTS Meas Guidance v03r05,

The transmitter output was connected to the spectrum analyzer.

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to: RBW = 3 kHz.
- d) Set the VBW = 10 kHz.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

8.3. Test Data

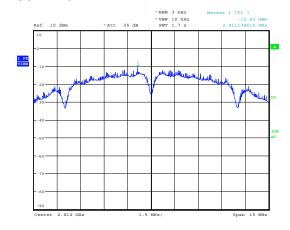
Table 9 Maximum Power Spectral Density Level Test Data

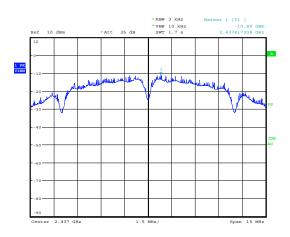
Model	Channel	PSD (dBm)	Limit (dBm)	Result
802.11b	Channel 1	-10.9	8	Pass
802.11b	Channel 6	-10.9	8	Pass
802.11b	Channel 11	-10.9	8	Pass
802.11g	Channel 1	-15.4	8	Pass
802.11g	Channel 6	-11.9	8	Pass
802.11g	Channel 11	-15.2	8	Pass
802.11n	Channel 1	-15.9	8	Pass
802.11n	Channel 6	-12.6	8	Pass
802.11n	Channel 11	-15.5	8	Pass

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802.11b

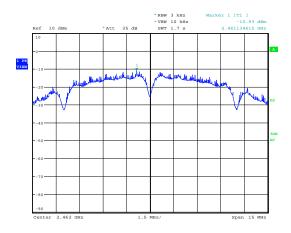




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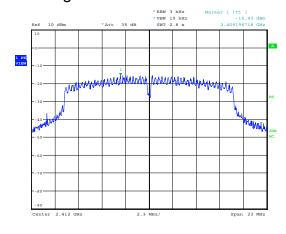
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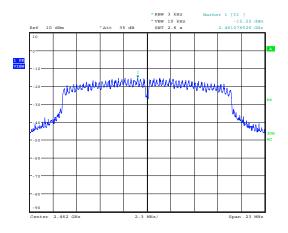
802.11g



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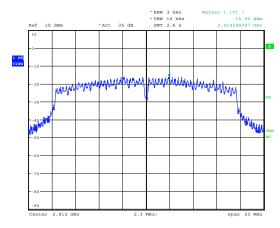
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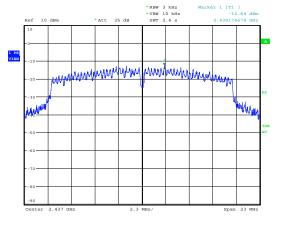
NETE National Digital Electronic Product Testing Center



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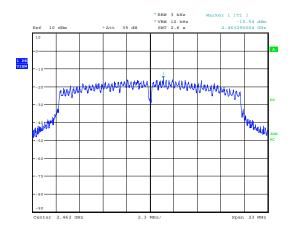
802.11n HT20





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OCB-V Date: 26.MAY.2016 13:07:07



OCB-V Date: 26.MAY.2016 13:08:12

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9. CONDUCTED BANDEDGE AND SPURIOUS MEASURMENT

9.1. Limits of Conducted Band Edge and Spurious Measurement

CFR 47 (FCC) part 15.247 (d)

9.2. Test Procedure

Reference to KDB558074 D01 DTS Meas Guidance v03r05,

The transmitter output was connected to the spectrum analyzer.

Establish a reference level by using the following procedure:

- a) Set instrument center frequency to DTS channel center frequency.
- b) Set the span to ≥ 1.5 times the DTS bandwidth.
- c) Set the RBW = 100 kHz.
- d) Set the VBW \geq 3 x RBW.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum PSD level.

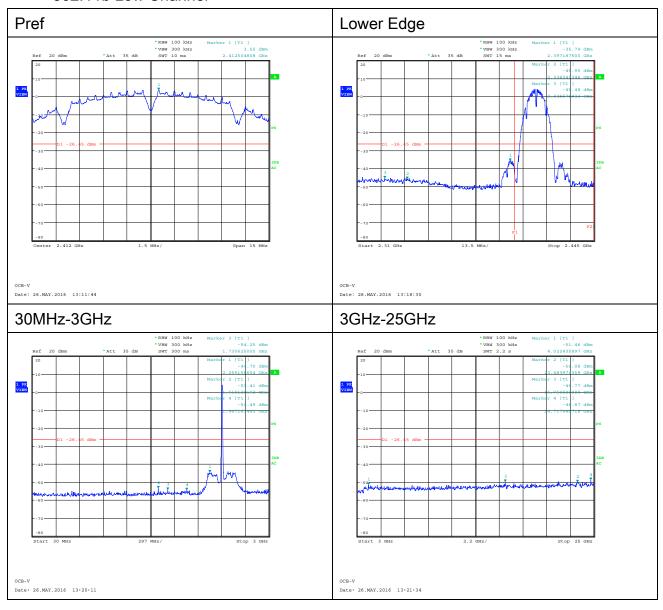
Emission level measurement

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100 kHz.
- c) Set the VBW \geq 3 x RBW.
- d) Detector = peak.
- e) Ensure that the number of measurement points ≥ span/RBW
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level.

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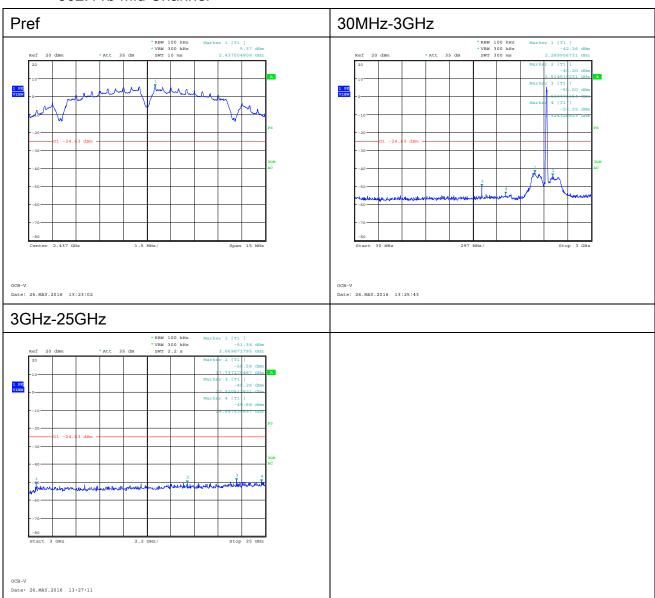
9.3. Test Data

802.11b Low Channel



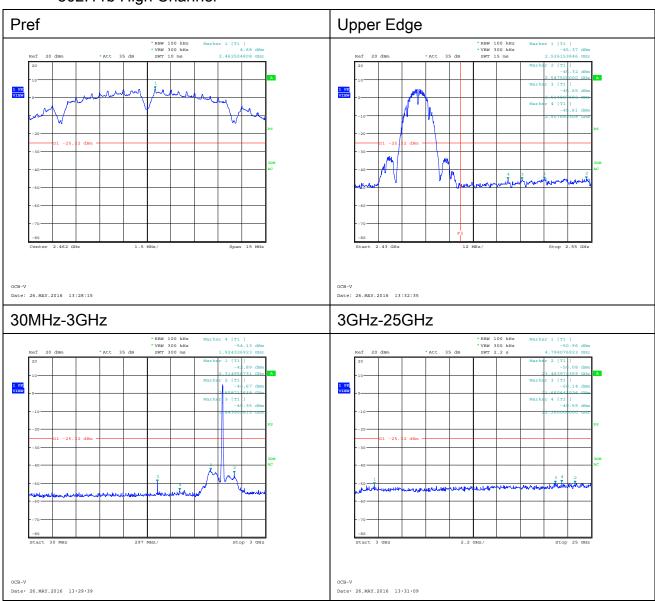
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802.11b Mid Channel



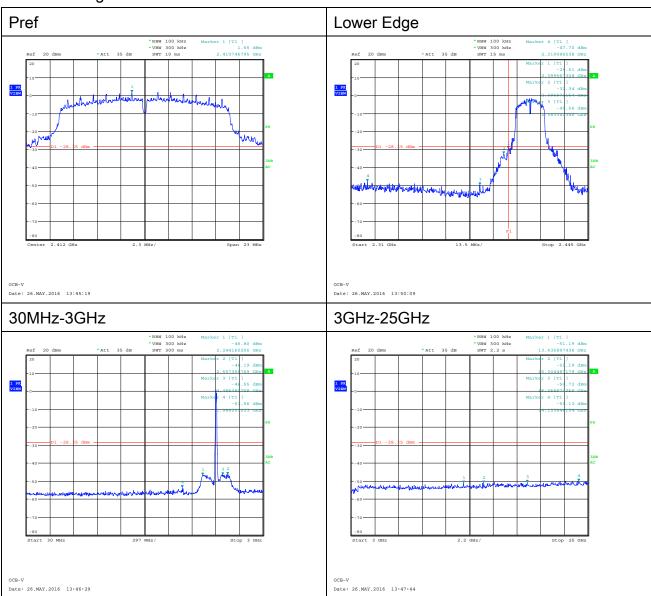
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802.11b High Channel



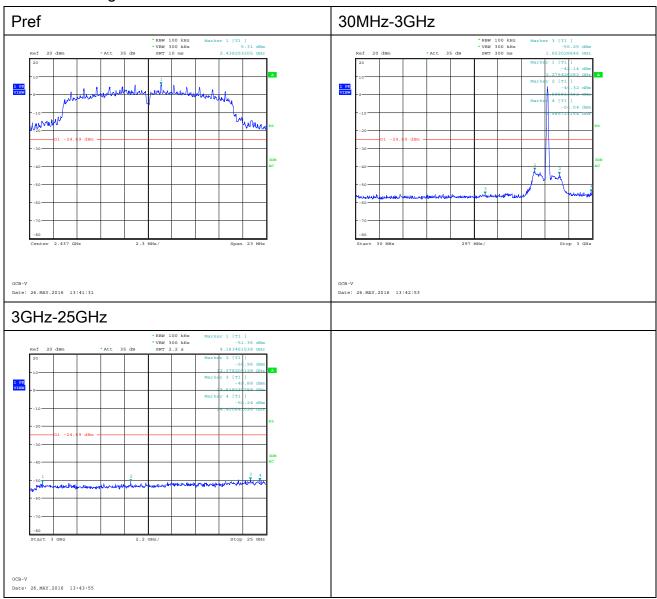
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802.11g Low Channel



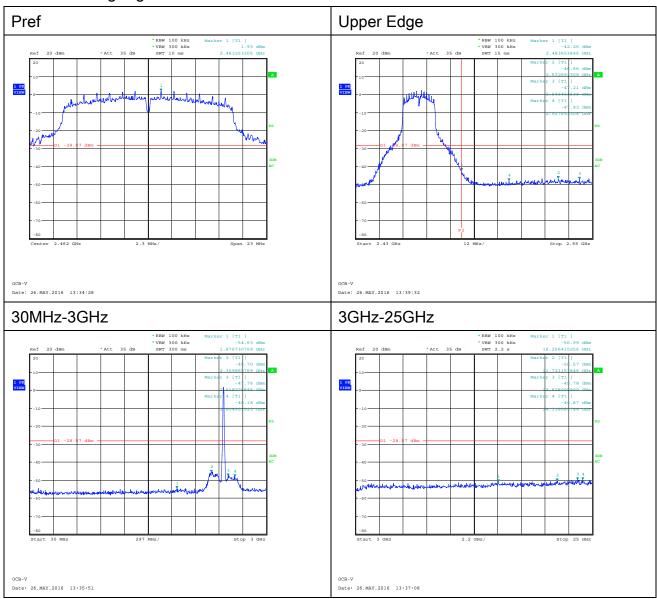
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802.11g Mid Channel



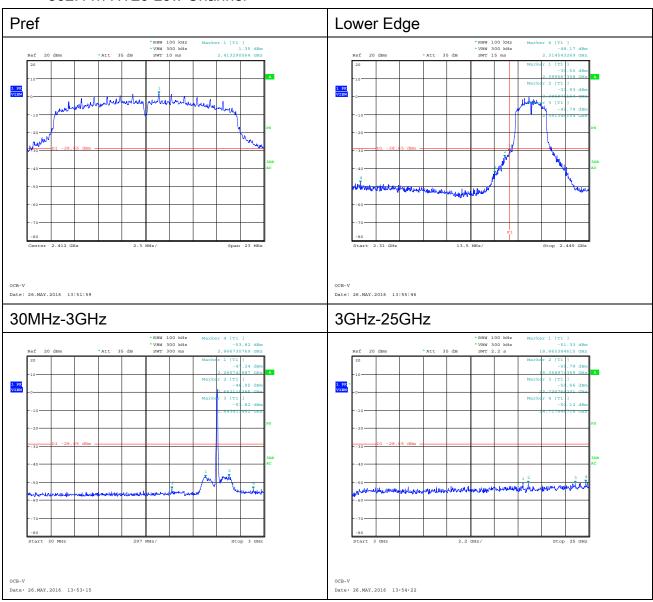
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802.11g High Channel



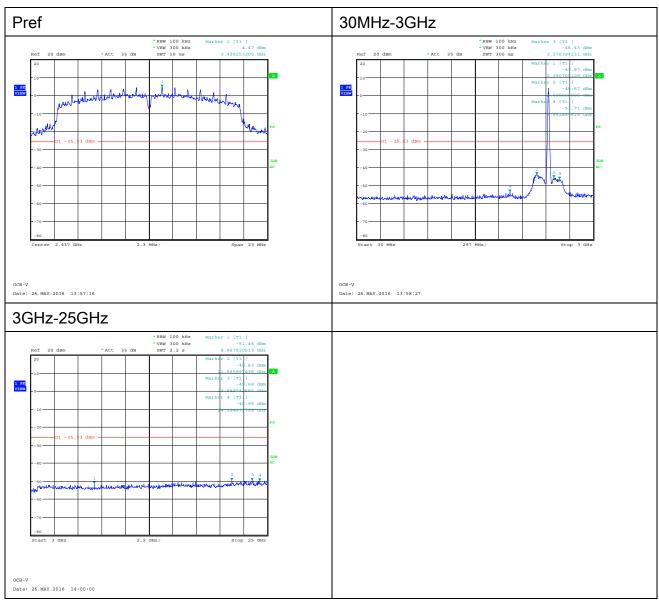
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802.11n HT20 Low Channel



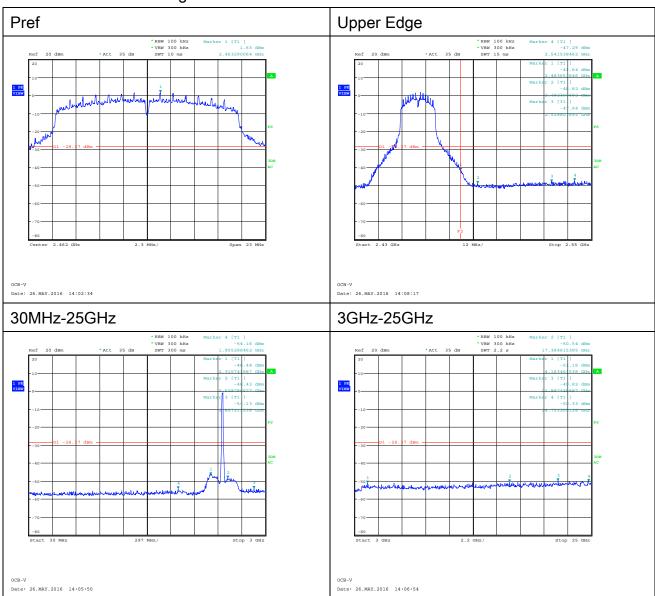
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802.11n HT20 Mid Channel



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802.11n HT20 High Channel



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10. RADIATED BAND EDGE AND SPURIOUS MEASUREMENT

10.1.Limits of Radiated Band Edge And Spurious Measurement

CFR 47 (FCC) part 15.247 (d) and 558074 D01 DTS Meas Guidance v03r05

10.2.TEST PROCEDURE

- 1. The testing follows the guidelines in ANSI C63.10: 2013 and Reference to KDB558074 D01 DTS Meas Guidance v03r05.
- 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.
- 3. For measurement below 1GHz, the EUT was placed on a turntable with 0.8 meter above ground. For measurement above 1 GHz, test at FAR, the EUT is placed on a non-conductive table, which is 1.5 meter 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, 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.
- 6. Use the following spectrum analyzer settings:
- (1) Span shall wide enough to fully capture the emission being measured;
- (2) Set RBW=100 kHz for f < 1 GHz; VBW >= RBW; Sweep = auto; Detector function = peak; Trace = max hold;
- (3) Set RBW = 1 MHz, VBW= 3MHz for f > 1 GHz for peak measurement. Set RBW = 1 MHz, and 1/T (on time) for average measurement.

10.3.Test Data

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Table 10 Radiated Emission Test Data (9kHz-30MHz)

Model No.: 999.11000611									
Test mode: T	X, Worst-case								
Frequency	Polarization	Correction	Antenna	Reading	Emission Level	Limits dB	EUT	Note	
(MHz)		Factor	Factor	Value	dB (μ V/m)	(μ V/m)	axes		
		(dB)	(dB/m)	(dB µ V)					
or radiated em	nission from 9kHz to	30MHz, the pre	e-scan result	was lower tha	n limit greater than	20dB, no emiss	sion reported	l.	

Table 11 Radiated Emission Test Data (30MHz-1GHz)

Model No.: 999.11000611									
Test mode: T	X, Worst-case								
Frequency (MHz)	Polarization	Correction Factor (dB)	Antenna Factor (dB/m)	Reading Value (dB µ V)	Emission Level dB (µ V/m)	Limits dB (μ V/m)	EUT axes	Note	
53.511	Vertical	0.7	13.3	15.8	29.8	40.0	Х	QP	
73.653	Vertical	1.0	8.7	9.4	19.1	40.0	X	QP	
86.587	Vertical	1.1	10.3	14.7	26.1	40.0	Х	QP	
160.010	Vertical	1.4	8.7	18.0	28.1	43.5	X	QP	
178.212	Vertical	1.6	9.0	17.5	28.1	43.5	Х	QP	
189.090	Vertical	1.6	9.7	16.5	27.8	43.5	Х	QP	
54.830	Horizontal	0.8	13.3	8.1	22.2	40.0	х	QP	
96.212	Horizontal	1.1	12.8	11.0	24.9	43.5	Х	QP	
152.771	Horizontal	1.4	8.3	11.1	20.8	43.5	Х	QP	
176.569	Horizontal	1.5	9.0	10.2	20.7	43.5	Х	QP	
389.619	Horizontal	2.4	14.6	6.7	23.7	46.0	Х	QP	
440.210	Horizontal	2.5	15.6	6.7	24.8	46.0	Х	QP	

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Table 12 Radiated Emission Test Data (1GHz-18GHz)

Model No.: 999.11000611

Frequency (MHz)	Polarization	Correction Factor (dB)	Antenna Factor (dB/m)	Reading Value (dB µ V)	Emission Level dB (μ V/m)	Limits dB (μV/m)	EUT axes	Note
4823.986	Vertical	-39.4	34.0	52.0	46.6	74	х	Harmonics PK
4823.986	Vertical	-39.4	34.0	41.0	35.6	54	Х	Harmonics A
6432.981	Vertical	-34.5	34.8	49.3	49.6	74	Х	PK
6432.981	Vertical	-34.5	34.8	36.1	36.4	54	Х	AV
3215.987	Vertical	-39.0	31.7	56.3	49.0	74	Х	PK
3215.987	Vertical	-39.0	31.7	49.6	42.3	54	Х	AV
7235.994	Vertical	-38.3	35.6	53.2	50.5	74	Х	Harmonics PI
7235.994	Vertical	-38.3	35.6	39.5	36.8	54	Х	Harmonics A
4018.006	Vertical	-39.3	32.9	55.6	49.2	74	Х	PK
4018.006	Vertical	-39.3	32.9	49.1	42.7	54	Х	AV
4823.986	Horizontal	-39.4	34.0	54.1	48.7	74	Х	Harmonics Pl
4823.986	Horizontal	-39.4	34.0	46.9	41.5	54	Х	Harmonics A
3215.991	Horizontal	-39.0	31.7	56.7	49.4	74	Х	PK
3215.991	Horizontal	-39.0	31.7	49.6	42.3	54	х	AV
4018.005	Horizontal	-39.3	32.9	57.2	50.8	74	х	PK
4018.005	Horizontal	-39.3	32.9	51.1	44.7	54	Х	AV
7236.003	Horizontal	-38.3	35.6	53.2	50.5	74	Х	Harmonics Pl
7236.003	Horizontal	-38.3	35.6	39.7	37.0	54	х	Harmonics A
2252.985	Horizontal	-40.4	28.3	70.8	58.7	74	х	PK
2252.985	Horizontal	-40.4	28.3	57.8	45.7	54	Х	AV

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Table 13 Radiated Emission Test Data (1GHz-18GHz)

Model No.: 999.11000611

Frequency (MHz)	Polarization	Correction Factor (dB)	Antenna Factor (dB/m)	Reading Value (dB µ V)	Emission Level dB (μ V/m)	Limits dB (μV/m)	EUT axes	Note
4873.985	Vertical	-39.4	34.0	54.2	48.8	74	х	PK
4873.985	Vertical	-39.4	34.0	47.5	42.1	54	Х	AV
3249.320	Vertical	-39.0	31.7	55.8	48.5	74	х	Harmonics PK
3249.320	Vertical	-39.0	31.7	46.7	39.4	54	Х	Harmonics AV
6497.649	Vertical	-34.6	34.8	48.8	49.0	74	Х	PK
6497.649	Vertical	-34.6	34.8	35.8	36.0	54	х	AV
4059.173	Vertical	-39.3	32.9	55.2	48.8	74	Х	PK
4059.173	Vertical	-39.3	32.9	49.1	42.7	54	Х	AV
7311.491	Vertical	-38.1	35.6	59.0	56.5	74	х	Harmonics PK
7311.491	Vertical	-38.1	35.6	52.9	50.4	54	Х	Harmonics AV
4873.996	Horizontal	-39.4	34.0	58.0	52.6	74	Х	Harmonics PK
4873.996	Horizontal	-39.4	34.0	53.7	48.3	54	Х	Harmonics AV
3249.319	Horizontal	-39.0	31.7	56.6	49.3	74	Х	PK
3249.319	Horizontal	-39.0	31.7	46.5	39.2	54	Х	AV
6497.650	Horizontal	-34.6	34.8	49.9	50.1	74	Х	PK
6497.650	Horizontal	-34.6	34.8	38.8	39.0	54	Х	AV
4059.184	Horizontal	-39.3	32.9	56.7	50.3	74	Х	PK
4059.184	Horizontal	-39.3	32.9	50.8	44.4	54	Х	AV
7311.492	Horizontal	-38.1	35.6	59.0	56.5	74	Х	Harmonics PK
7311.492	Horizontal	-38.1	35.6	52.9	50.4	54	Х	Harmonics AV

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Table 14 Radiated Emission Test Data (1GHz-18GHz)

Model No.: 999.11000611

Frequency (MHz)	Polarization	Correction Factor (dB)	Antenna Factor (dB/m)	Reading Value (dB µ V)	Emission Level dB (μ V/m)	Limits dB (µ V/m)	EUT axes	Note
4923.992	Horizontal	-39.6	34.0	59.4	53.8	74	х	Harmonics PK
4923.992	Horizontal	-39.6	34.0	55.4	49.8	54	х	Harmonics A
3281.994	Horizontal	-38.7	31.7	51.3	44.3	74	Х	PK
3281.994	Horizontal	-38.7	31.7	39.0	32.0	54	х	AV
4105.021	Horizontal	-39.3	32.9	56.8	50.4	74	х	PK
4105.021	Horizontal	-39.3	32.9	51.0	44.6	54	Х	AV
6565.315	Horizontal	-35.1	34.8	51.6	51.3	74	х	PK
6565.315	Horizontal	-35.1	34.8	43.1	42.8	54	Х	AV
7385.974	Horizontal	-37.7	35.6	53.7	51.6	74	Х	Harmonics PF
7385.975	Horizontal	-37.7	35.6	40.0	37.9	54	х	Harmonics A
4923.990	Vertical	-39.6	34.0	56.1	50.5	74	Х	Harmonics Pk
4923.990	Vertical	-39.6	34.0	50.6	45.0	54	Х	Harmonics AV
3281.993	Vertical	-38.7	31.7	56.5	49.5	74	Х	PK
3281.993	Vertical	-38.7	31.7	44.2	37.2	54	х	AV
4105.017	Vertical	-39.3	32.9	56.3	49.9	74	х	PK
4105.017	Vertical	-39.3	32.9	49.3	42.9	54	Х	AV
6565.310	Vertical	-35.1	34.8	55.7	55.4	74	Х	PK
6565.310	Vertical	-35.1	34.8	50.4	50.1	54	Х	AV
7385.987	Vertical	-37.7	35.6	53.0	50.9	74	Х	Harmonics PF
7385.987	Vertical	-37.7	35.6	39.7	37.6	54	Х	Harmonics A

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Table 15 Radiated Emission Test Data (1GHz-18GHz)

Model No.: 999.11000611

Frequency (MHz)	Polarization	Correction Factor (dB)	Antenna Factor (dB/m)	Reading Value (dB µ V)	Emission Level dB (µ V/m)	Limits dB (µ V/m)	EUT	Note
4823.990	Vertical	-39.4	34.0	54.2	48.8	74	х	Harmonics PK
4823.990	Vertical	-39.4	34.0	41.9	36.5	54	Х	Harmonics AV
3215.993	Vertical	-39.0	31.7	56.2	48.9	74	Х	PK
3215.993	Vertical	-39.0	31.7	50.1	42.8	54	Х	AV
6431.984	Vertical	-34.5	34.8	53.8	54.1	74	Х	PK
6431.984	Vertical	-34.5	34.8	47.4	47.7	54	Х	AV
4020.246	Vertical	-39.3	32.9	59.3	52.9	74	Х	PK
4020.246	Vertical	-39.3	32.9	52.5	46.1	54	Х	AV
7235.994	Vertical	-38.3	35.6	53.1	50.4	74	Х	Harmonics PK
7235.994	Vertical	-38.3	35.6	39.4	36.7	54	Х	Harmonics AV
3215.996	Horizontal	-39.0	31.7	56.8	49.5	74	Х	PK
3215.996	Horizontal	-39.0	31.7	50.3	43.0	54	х	AV
4020.245	Horizontal	-39.3	32.9	57.7	51.3	74	Х	Harmonics PK
4020.245	Horizontal	-39.3	32.9	46.5	40.1	54	Х	Harmonics AV
4823.991	Horizontal	-39.4	34.0	52.3	46.9	74	х	PK
4823.991	Horizontal	-39.4	34.0	38.3	32.9	54	Х	AV
7236.000	Horizontal	-38.3	35.6	53.3	50.6	74	х	Harmonics PK
7236.000	Horizontal	-38.3	35.6	39.7	37.0	54	х	Harmonics AV
6431.999	Horizontal	-34.5	34.8	49.9	50.2	74	х	PK
6431.999	Horizontal	-34.5	34.8	38.5	38.8	54	Х	AV

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Table 16 Radiated Emission Test Data (1GHz-18GHz)

Model No.: 999.11000611

Frequency (MHz)	Polarization	Correction Factor (dB)	Antenna Factor (dB/m)	Reading Value (dB µ V)	Emission Level dB (μ V/m)	Limits dB (μV/m)	EUT axes	Note
4873.974	Horizontal	-39.4	34.0	56.0	50.6	74	х	Harmonics Pk
4873.974	Horizontal	-39.4	34.0	43.1	37.7	54	х	Harmonics A
3249.012	Horizontal	-39.0	31.7	55.0	47.7	74	х	PK
3249.012	Horizontal	-39.0	31.7	44.7	37.4	54	54 X	
4060.090	Horizontal	-39.3	32.9	58.9	52.5	74 X		PK
4060.090	Horizontal	-39.3	32.9	48.6	42.2	54	х	AV
7311.008	Horizontal	-38.1	35.6	53.5	51.0	74	Х	Harmonics Pl
7311.008	Horizontal	-38.1	35.6	40.2	37.7	54 X		Harmonics A
6497.641	Horizontal	-34.6	34.8	50.0	50.2	74	Х	PK
6497.641	Horizontal	-34.6	34.8	36.4	36.6	54 X		AV
6498.652	Vertical	-34.6	34.8	55.9	56.1	74	х	PK
6498.652	Vertical	-34.6	34.8	50.1	50.3	54	х	AV
4873.980	Vertical	-39.4	34.0	60.2	54.8	74	х	Harmonics P
4873.980	Vertical	-39.4	34.0	54.4	49.0	54	х	Harmonics A
3249.324	Vertical	-39.0	31.7	55.6	48.3	74	х	PK
3249.324	Vertical	-39.0	31.7	47.5	40.2	54	х	AV
4060.093	Vertical	-39.3	32.9	57.4	51.0	74	х	PK
4060.093	Vertical	-39.3	32.9	46.5	40.1	54	х	AV
7311.173	Vertical	-38.1	35.6	53.1	50.6	74	х	Harmonics P
7311.173	Vertical	-38.1	35.6	39.5	37.0	54	х	Harmonics A

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Table 17 Radiated Emission Test Data (1GHz-18GHz)

Model No.: 999.11000611

Frequency (MHz)	Polarization	Correction Factor (dB)	Antenna Factor (dB/m)	Reading Value (dB µ V)	Emission Level dB (μ V/m)	Limits dB (μV/m)	EUT axes	Note
6565.320	Vertical	-35.1	34.8	59.3	59.0	74	X	PK
6565.320	Vertical	-35.1	34.8	47.9	47.6	54	Х	AV
4923.994	Vertical	-39.6	34.0	53.1	47.5	74	Х	Harmonics P
4923.994	Vertical	-39.6	34.0	39.6	34.0	54	Х	Harmonics A
3281.989	Vertical	-38.7	31.7	51.1	44.1	74 X		PK
3281.989	Vertical	-38.7	31.7	39.4	32.4	54	Х	AV
4104.867	Vertical	-39.3	32.9	55.9	49.5	74	Х	PK
4104.867	Vertical	-39.3	32.9	45.1	38.7	54 X		AV
7385.998	Vertical	-37.7	35.6	53.5	51.4	74	Х	Harmonics P
7385.998	Vertical	-37.7	35.6	39.5	37.4	54 X		Harmonics A
4923.995	Horizontal	-39.6	34.0	55.5	49.9	74	Х	Harmonics P
4923.995	Horizontal	-39.6	34.0	42.2	36.6	54	Х	Harmonics A
3281.990	Horizontal	-38.7	31.7	51.7	44.7	74	Х	PK
3281.990	Horizontal	-38.7	31.7	39.7	32.7	54	Х	AV
6565.311	Horizontal	-35.1	34.8	51.6	51.3	74	Х	PK
6565.311	Horizontal	-35.1	34.8	41.0	40.7	54	Х	AV
4104.971	Horizontal	-39.3	32.9	57.1	50.7	74	Х	PK
4104.971	Horizontal	-39.3	32.9	46.2	39.8	54	Х	AV
7385.991	Horizontal	-37.7	35.6	54.0	51.9	74	х	Harmonics P
7385.991	Horizontal	-37.7	35.6	39.7	37.6	54	х	Harmonics A

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Table 18 Radiated Emission Test Data (1GHz-18GHz)

Model No.: 999.11000611

Frequency (MHz)	Polarization	Correction Factor (dB)	Antenna Factor (dB/m)	Reading Value (dB µ V)	Emission Level dB (μ V/m)	Limits dB (µ V/m)	EUT axes	Note
3215.993	Vertical	-39.0	31.7	56.5	49.2	74	Х	PK
3215.993	Vertical	-39.0	31.7	50.5	43.2	54	Х	AV
6431.993	Vertical	-34.5	34.8	53.7	54.0	74	Х	PK
6431.993	Vertical	-34.5	34.8	47.3	47.6	54	Х	AV
4823.990	Vertical	-39.4	34.0	58.0	52.6	74	Х	Harmonics PK
4823.990	Vertical	-39.4	34.0	51.7	46.3	54	Х	Harmonics AV
4020.237	Vertical	-39.3	32.9	54.9	48.5	74	Х	PK
4020.237	Vertical	-39.3	32.9	43.6	37.2	54	54 X	
7235.994	Vertical	-38.3	35.6	53.3	50.6	74	Х	Harmonics PK
7235.994	Vertical	-38.3	35.6	39.3	36.6	54	Х	Harmonics AV
3215.997	Horizontal	-39.0	31.7	56.9	49.6	74	Х	PK
3215.997	Horizontal	-39.0	31.7	50.8	43.5	54	Х	AV
6431.996	Horizontal	-34.5	34.8	49.6	49.9	74	Х	PK
6431.996	Horizontal	-34.5	34.8	43.0	43.3	54	Х	AV
4823.991	Horizontal	-39.4	34.0	52.9	47.5	74	Х	Harmonics PK
4823.991	Horizontal	-39.4	34.0	40.8	35.4	54	Х	Harmonics AV
4020.239	Horizontal	-39.3	32.9	56.5	50.1	74	Х	PK
4020.239	Horizontal	-39.3	32.9	46.0	39.6	54	Х	AV
7235.995	Horizontal	-38.3	35.6	53.2	50.5	74	Х	Harmonics Pk
7235.995	Horizontal	-38.3	35.6	39.5	36.8	54	Х	Harmonics AV

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Table 19 Radiated Emission Test Data (1GHz-18GHz)

Model No.: 999.11000611

Frequency (MHz)	Polarization	Correction Factor (dB)	Antenna Factor (dB/m)	Reading Value (dB µ V)	Emission Level dB (µ V/m)	Limits dB (μV/m)	EUT axes	Note
4873.989	Vertical	-39.4	34.0	52.6	47.2	74	х	Harmonics PK
4873.989	Vertical	-39.4	34.0	38.7	33.3	54	Х	Harmonics AV
3249.298	Vertical	-39.0	31.7	56.1	48.8	74	Х	PK
3249.298	Vertical	-39.0	31.7	47.7	40.4	54	Х	AV
6497.668	Vertical	-34.6	34.8	50.4	50.6	74	Х	PK
6497.668	Vertical	-34.6	34.8	37.5	37.7	54	Х	AV
4061.401	Vertical	-39.3	32.9	57.0	50.6	74	Х	PK
4061.401	Vertical	-39.3	32.9	45.9	39.5	54	Х	AV
7311.017	Vertical	-38.1	35.6	53.0	50.5	74	Х	Harmonics PK
7311.017	Vertical	-38.1	35.6	39.7	37.2	54	Х	Harmonics AV
4873.993	Horizontal	-39.4	34.0	56.4	51.0	74	Х	Harmonics PK
4873.993	Horizontal	-39.4	34.0	42.7	37.3	54	Х	Harmonics AV
3249.273	Horizontal	-39.0	31.7	56.4	49.1	74	Х	PK
3249.273	Horizontal	-39.0	31.7	47.4	40.1	54	Х	AV
4061.035	Horizontal	-39.3	32.9	55.6	49.2	74	Х	PK
4061.035	Horizontal	-39.3	32.9	48.7	42.3	54	х	AV
6497.669	Horizontal	-34.6	34.8	50.2	50.4	74	х	PK
6497.669	Horizontal	-34.6	34.8	37.2	37.4	54	Х	AV
7311.021	Horizontal	-38.1	35.6	53.5	51.0	74	х	Harmonics Pk
7311.021	Horizontal	-38.1	35.6	40.3	37.8	54	Х	Harmonics AV

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Table 20 Radiated Emission Test Data (1GHz-18GHz)

Model No.: 999.11000611

Frequency (MHz)	Polarization	Correction Factor (dB)	Antenna Factor (dB/m)	Reading Value (dB µ V)	Emission Level dB (μ V/m)	Limits dB (µ V/m)	EUT	Note
6565.319	Vertical	-35.1	34.8	54.6	54.3	74	Х	PK
6565.319	Vertical	-35.1	34.8	47.6	47.3	54	Х	AV
3281.989	Vertical	-38.7	31.7	60.6	53.6	74	Х	PK
3281.989	Vertical	-38.7	31.7	53.4	46.4	54	х	AV
4923.994	Vertical	-39.6	34.0	52.9	47.3	74	х	Harmonics PK
4923.994	Vertical	-39.6	34.0	38.9	33.3	54	Х	Harmonics AV
4098.002	Vertical	-39.3	32.9	54.6	48.2	74	Х	PK
4098.002	Vertical	-39.3	32.9	43.2	36.8	54	Х	AV
7385.997	Vertical	-37.7	35.6	53.1	51.0	74	Х	Harmonics PK
7385.997	Vertical	-37.7	35.6	39.4	37.3	54	Х	Harmonics AV
6565.309	Horizontal	-35.1	34.8	51.4	51.1	74	Х	PK
6565.309	Horizontal	-35.1	34.8	40.2	39.9	54	Х	AV
3281.992	Horizontal	-38.7	31.7	56.0	49.0	74	Х	PK
3281.992	Horizontal	-38.7	31.7	47.0	40.0	54	Х	AV
4923.988	Horizontal	-39.6	34.0	56.6	51.0	74	Х	Harmonics PK
4923.988	Horizontal	-39.6	34.0	42.5	36.9	54	Х	Harmonics AV
4098.001	Horizontal	-39.3	32.9	55.5	49.1	74	Х	PK
4098.001	Horizontal	-39.3	32.9	48.4	42.0	54	Х	AV
7385.999	Horizontal	-37.7	35.6	52.9	50.8	74	Х	Harmonics PI
7385.999	Horizontal	-37.7	35.6	39.3	37.2	54	Х	Harmonics A

Note: 1. Emission level(dBuV/m)=Reading Value(dBuV) + Correction Factor(dB)+Antenna Factor (dB/m)

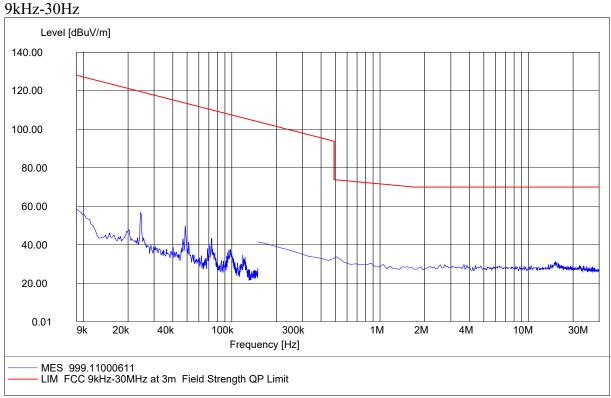
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^{2.} Correction Factor(dB) = Cable Factor (dB)+Amplifier Factor(dB)

^{3.} No other spurious and harmonic emissions were reported greater than listed emissions above table.

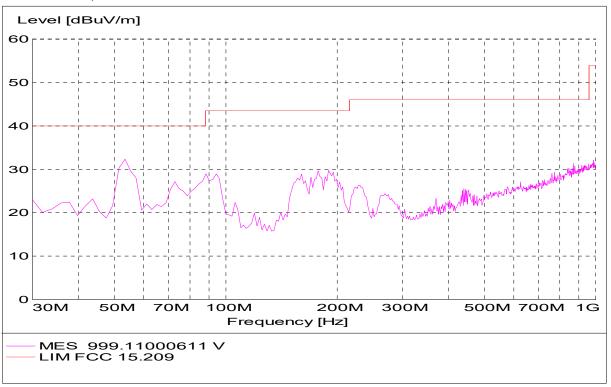
Table 21 Radiated Emission Test Data (18GHz-25GHz)

X, Worst-case							
Polarization	Correction	Antenna	Reading	Emission Level	Limits dB	EUT	Note
	Factor	Factor	Value	dB (μ V/m)	(µ V/m)	axes	
	(dB)	(dB/m)	(dB μ V)				
					-		
		X, Worst-case Polarization Correction Factor (dB)	Polarization Correction Antenna Factor Factor (dB) (dB/m)	X, Worst-case Polarization	X, Worst-case Polarization	X, Worst-case Polarization	TX, Worst-case Polarization

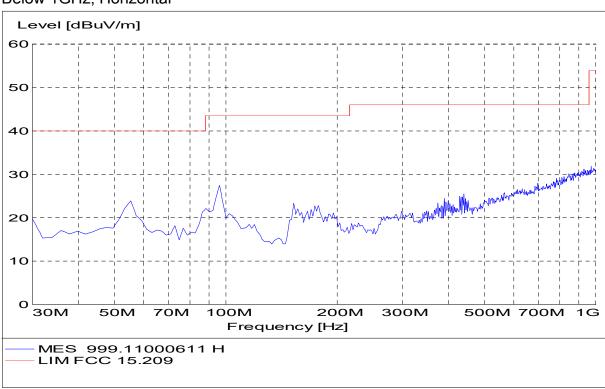


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Below 1GHz, Vertical



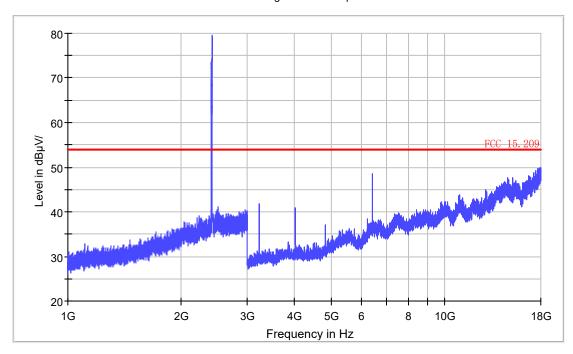
Below 1GHz, Horizontal



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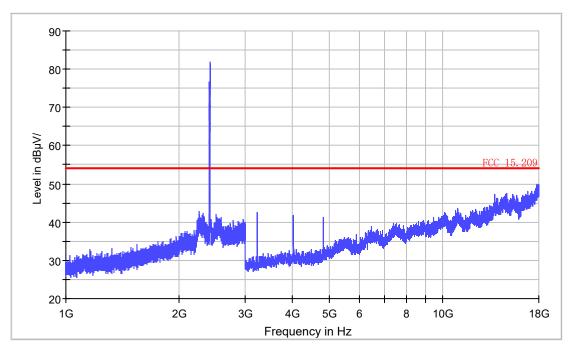
1G-18GHz, Vertical, 802.11b, Low channel

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



1G-18GHz, Horizontal, 802.11b, Low channel

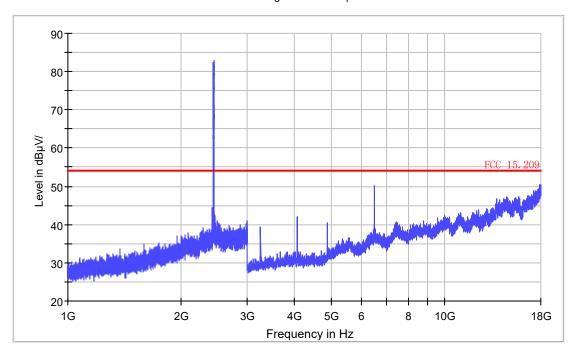
FCC Electric Field Strength 1-18GHz operate on 2.4GHz



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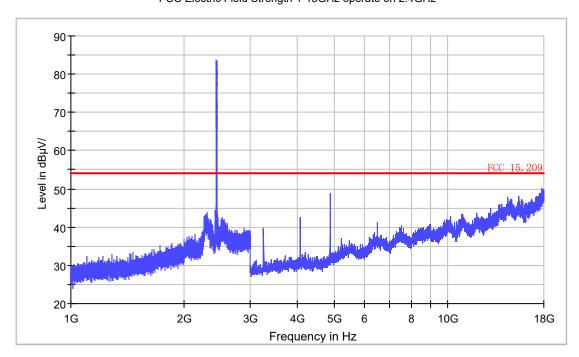
1G-18GHz, Vertical, 802.11b, Mid channel

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



1G-18GHz, Horizontal, 802.11b, Mid channel

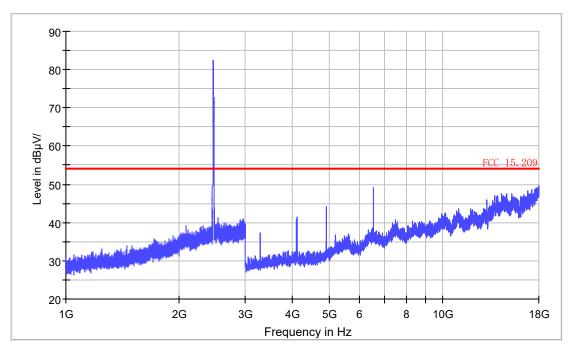
FCC Electric Field Strength 1-18GHz operate on 2.4GHz



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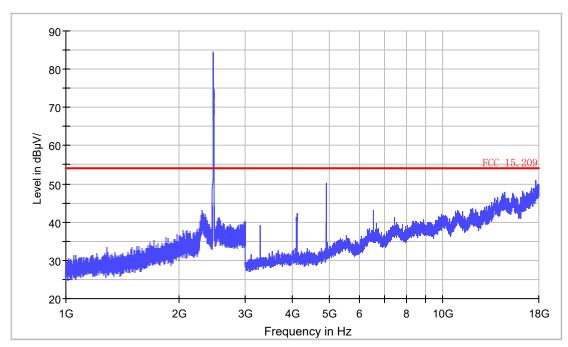
1G-18GHz, Vertical, 802.11b, High channel

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



1G-18GHz, Horizontal, 802.11b, High channel

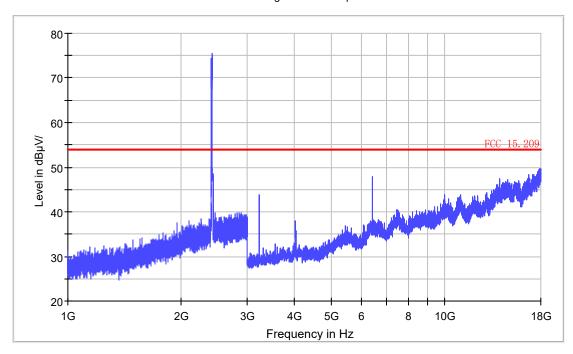
FCC Electric Field Strength 1-18GHz operate on 2.4GHz



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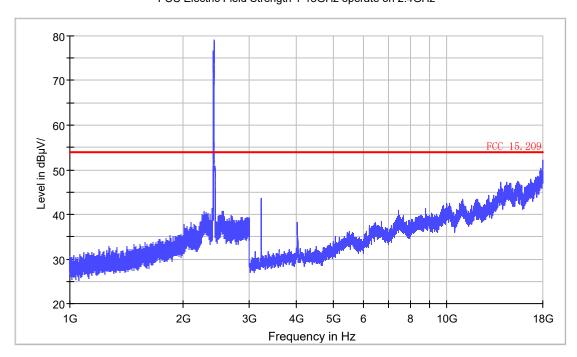
1G-18GHz, Vertical, 802.11g, Low channel

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



1G-18GHz, Horizontal, 802.11g, Low channel

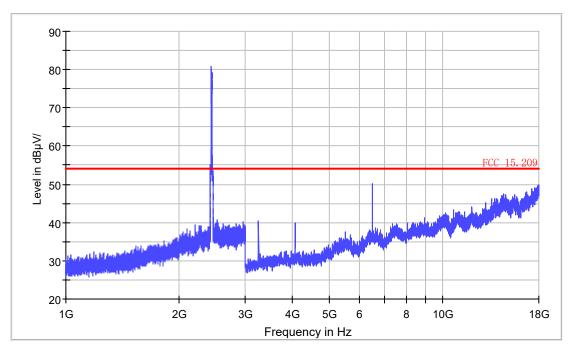
FCC Electric Field Strength 1-18GHz operate on 2.4GHz



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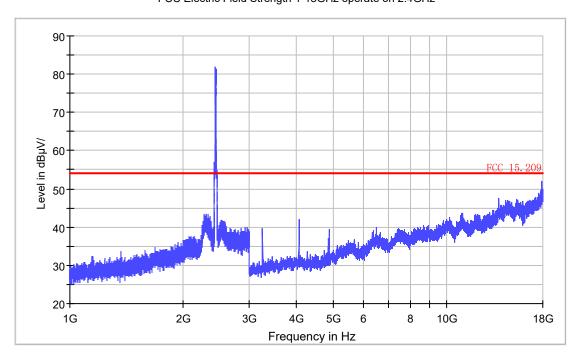
1G-18GHz, Vertical, 802.11g, Mid channel

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



1G-18GHz, Horizontal, 802.11g, Mid channel

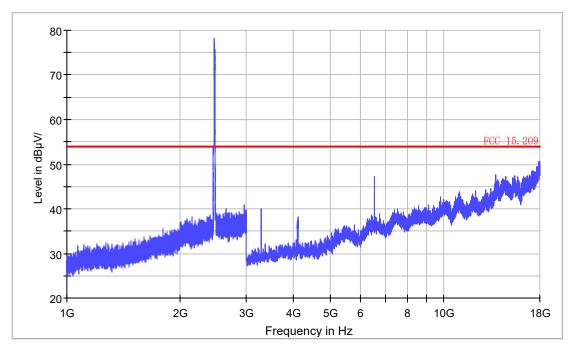
FCC Electric Field Strength 1-18GHz operate on 2.4GHz



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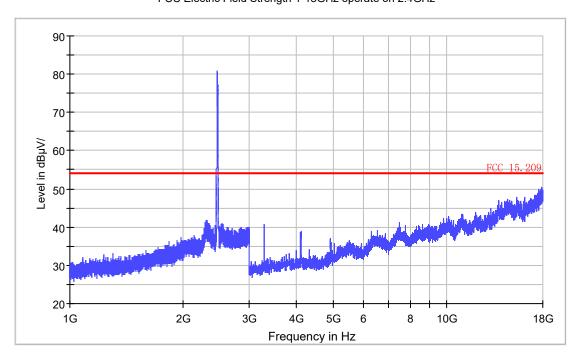
1G-18GHz, Vertical, 802.11g, High channel

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



1G-18GHz, Horizontal, 802.11g, High channel

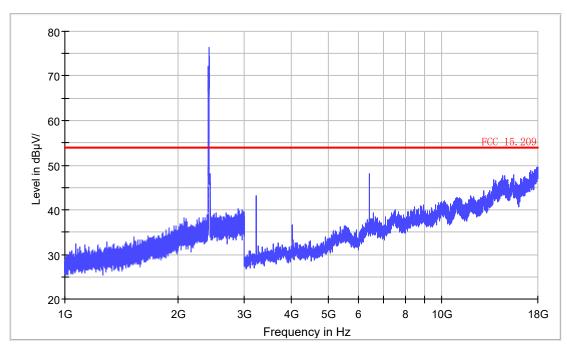
FCC Electric Field Strength 1-18GHz operate on 2.4GHz



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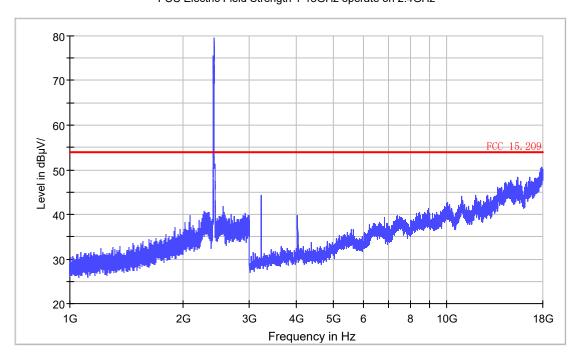
1G-18GHz, Vertical, 802.11n HT20, Low channel

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



1G-18GHz, Horizontal, 802.11n HT20, Low channel

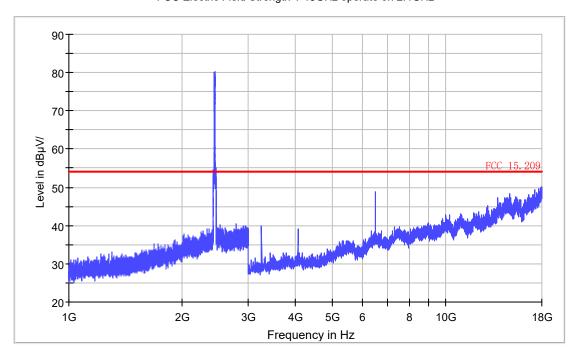
FCC Electric Field Strength 1-18GHz operate on 2.4GHz



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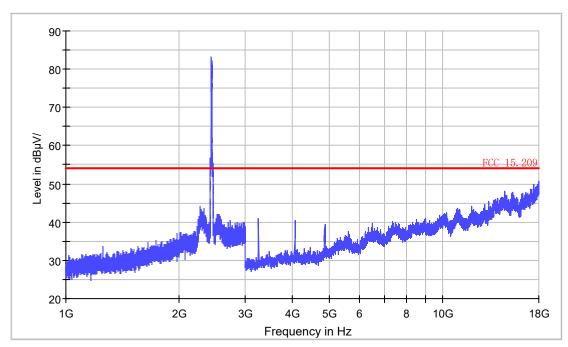
1G-18GHz, Vertical, 802.11n HT20, Mid channel

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



1G-18GHz, Horizontal, 802.11n HT20, Mid channel

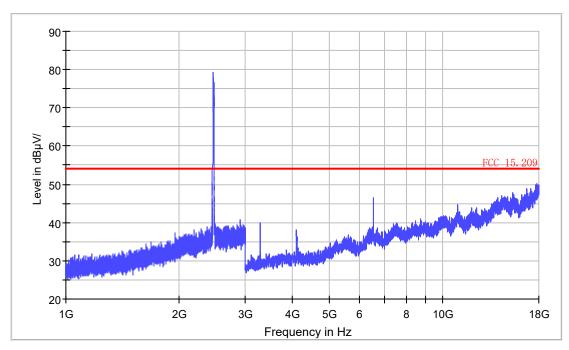
FCC Electric Field Strength 1-18GHz operate on 2.4GHz



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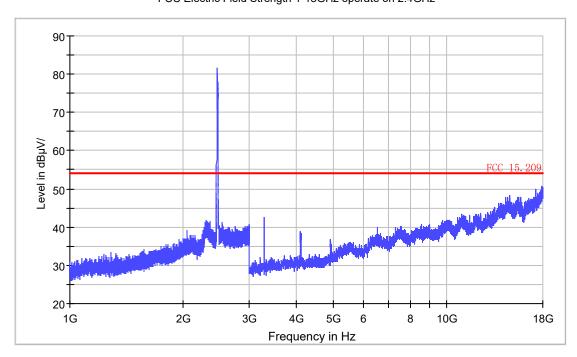
1G-18GHz, Vertical, 802.11n HT20, High channel

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



1G-18GHz, Horizontal, 802.11n HT20, High channel

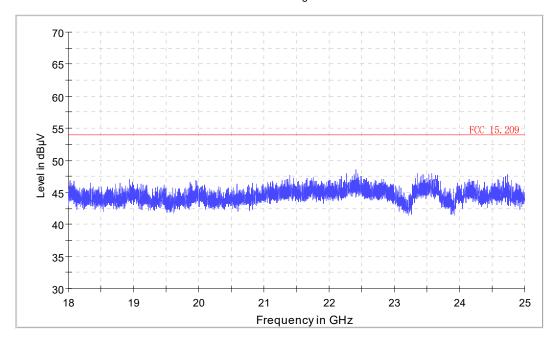
FCC Electric Field Strength 1-18GHz operate on 2.4GHz



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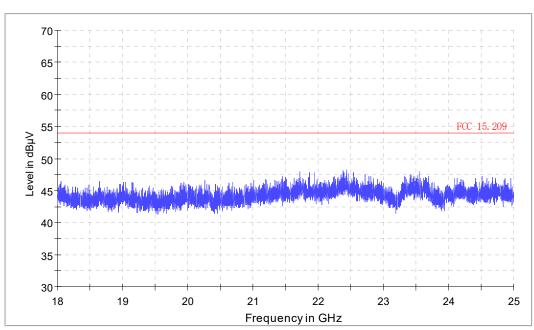
18G-25GHz, Vertical

FCC Electric Field Strength 18-26.5GHz



18G-25GHz, Horizontal

FCC Electric Field Strength 18-26.5GHz

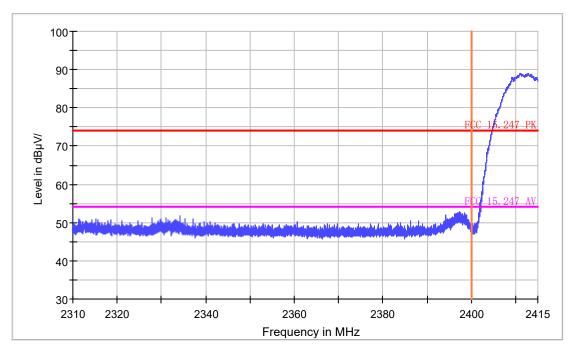


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Band Edge

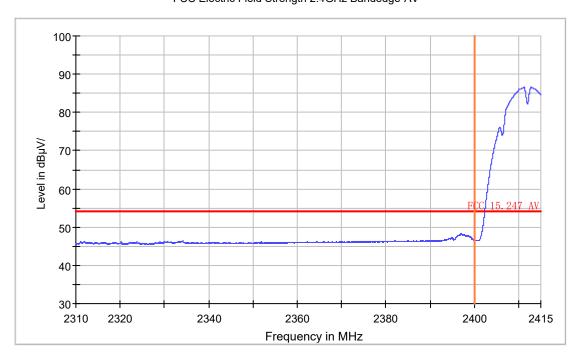
Vertical, 802.11b, Low channel, PK

FCC Electric Field Strength 2.4GHz Bandedge-PK



Vertical, 802.11b, Low channel, AV

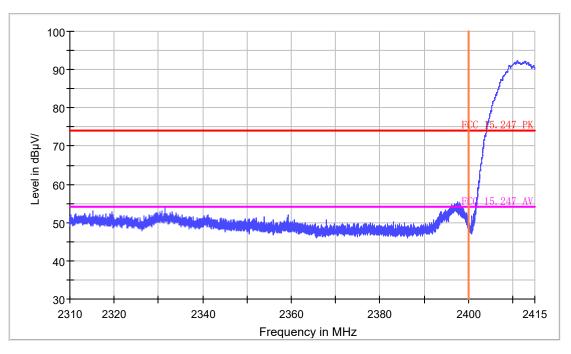
FCC Electric Field Strength 2.4GHz Bandedge-AV



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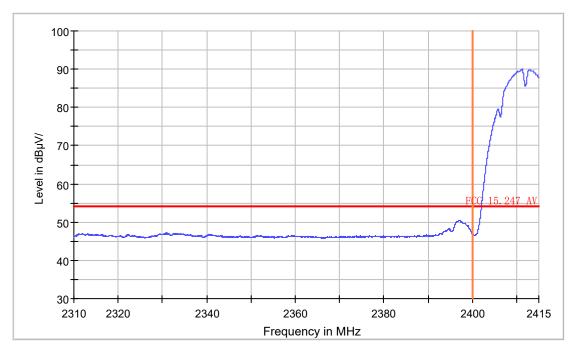
Horizontal, 802.11b, Low channel, PK

FCC Electric Field Strength 2.4GHz Bandedge-PK



Horizontal, 802.11b, Low channel, AV

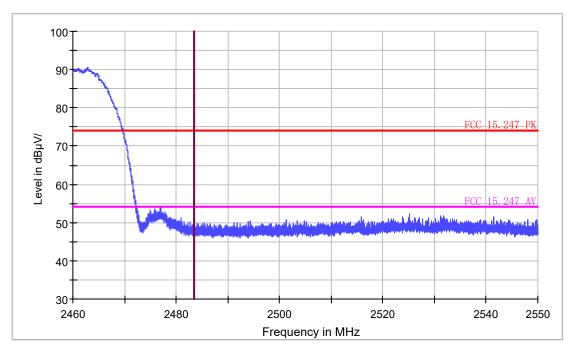
FCC Electric Field Strength 2.4GHz Bandedge-AV



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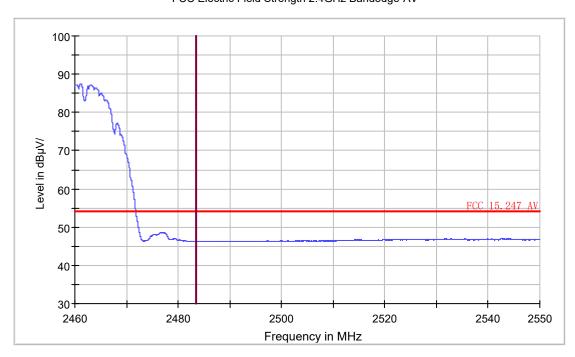
Vertical, 802.11b, High channel, PK

FCC Electric Field Strength 2.4GHz Bandedge-PK



Vertical, 802.11b, High channel, AV

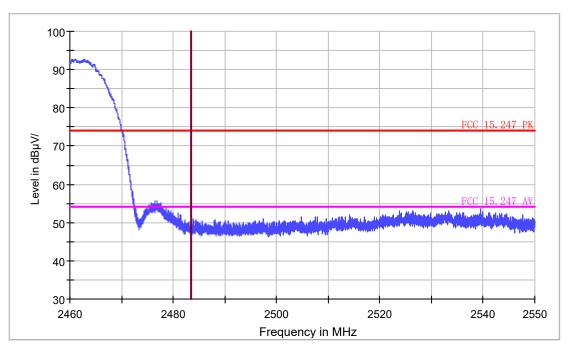
FCC Electric Field Strength 2.4GHz Bandedge-AV



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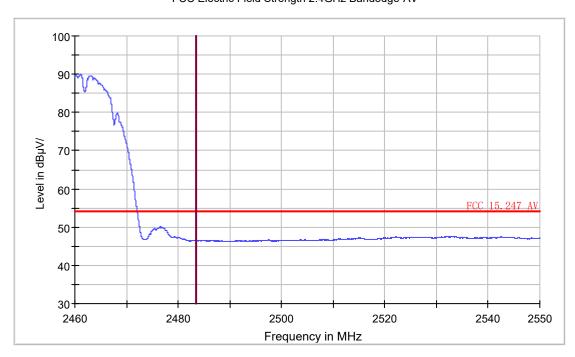
Horizontal, 802.11b, High channel, PK

FCC Electric Field Strength 2.4GHz Bandedge-PK



Horizontal, 802.11b, High channel, AV

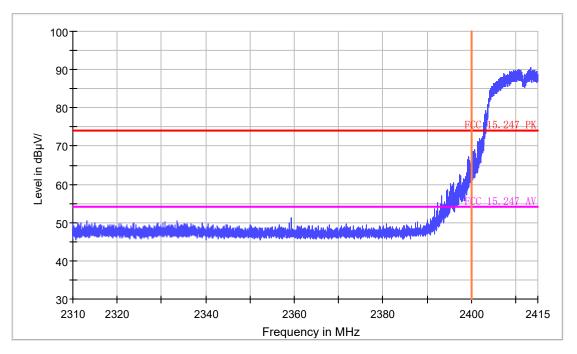
FCC Electric Field Strength 2.4GHz Bandedge-AV



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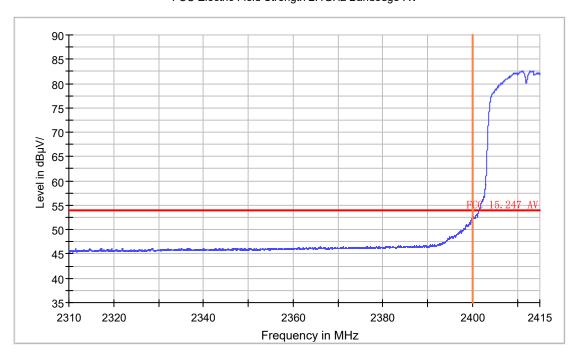
Vertical, 802.11g, Low channel, PK

FCC Electric Field Strength 2.4GHz Bandedge-PK



Vertical, 802.11g, Low channel, AV

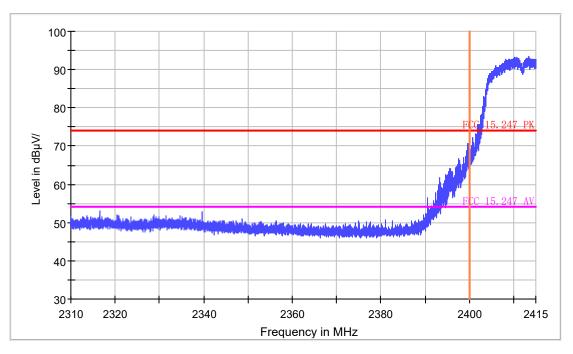
FCC Electric Field Strength 2.4GHz Bandedge-AV



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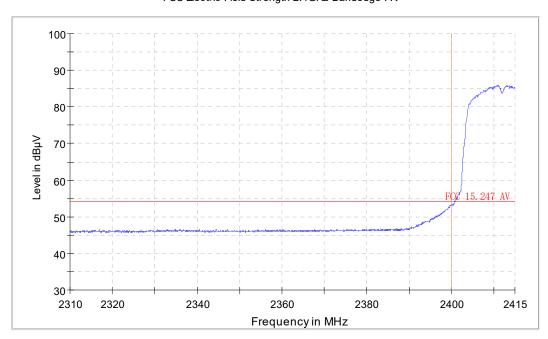
Horizontal, 802.11g, Low channel, PK

FCC Electric Field Strength 2.4GHz Bandedge-PK



Horizontal, 802.11g, Low channel, AV

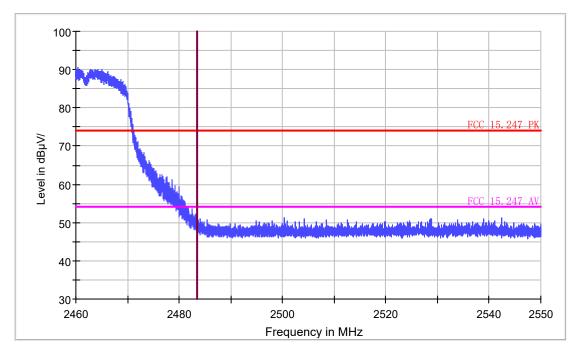
FCC Electric Field Strength 2.4GHz Bandedge-AV



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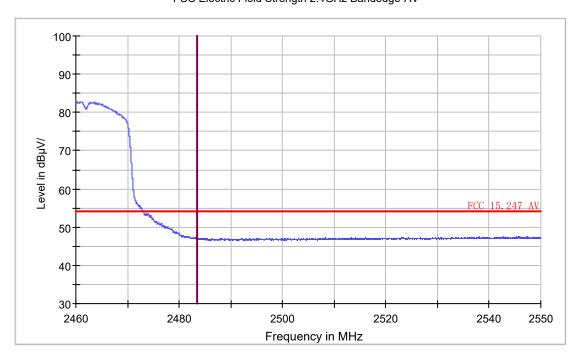
Vertical, 802.11g, High channel, PK

FCC Electric Field Strength 2.4GHz Bandedge-PK



Vertical, 802.11g, High channel, AV

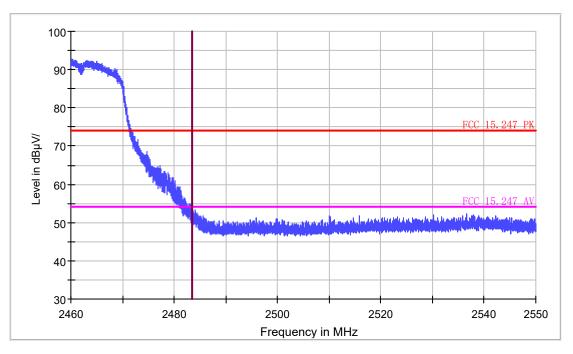
FCC Electric Field Strength 2.4GHz Bandedge-AV



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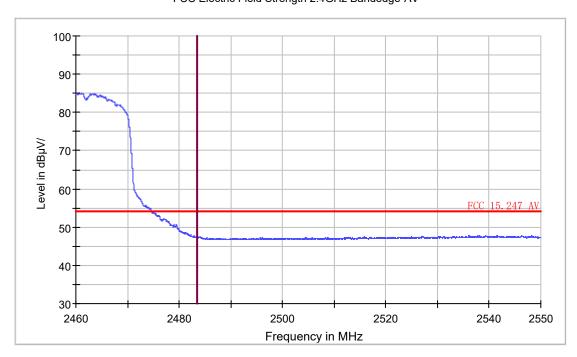
Horizontal, 802.11g, High channel, PK

FCC Electric Field Strength 2.4GHz Bandedge-PK



Horizontal, 802.11g, High channel, AV

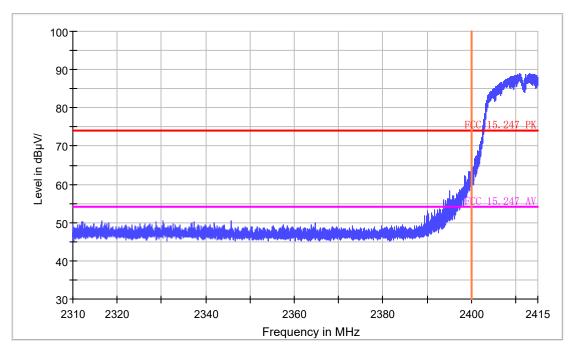
FCC Electric Field Strength 2.4GHz Bandedge-AV



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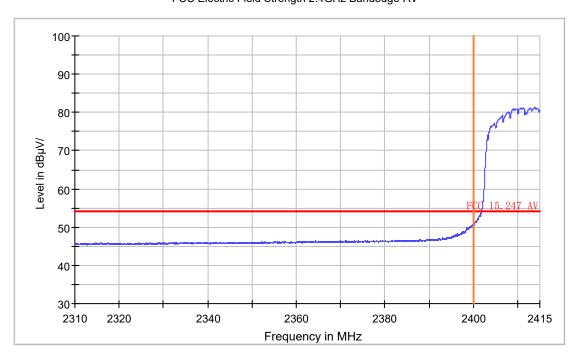
Vertical, 802.11n HT20, Low channel, PK

FCC Electric Field Strength 2.4GHz Bandedge-PK



Vertical, 802.11n HT20, Low channel, AV

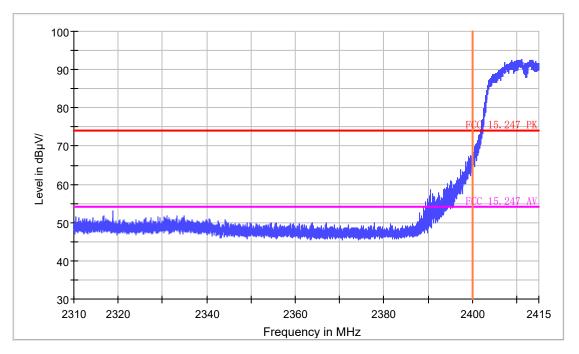
FCC Electric Field Strength 2.4GHz Bandedge-AV



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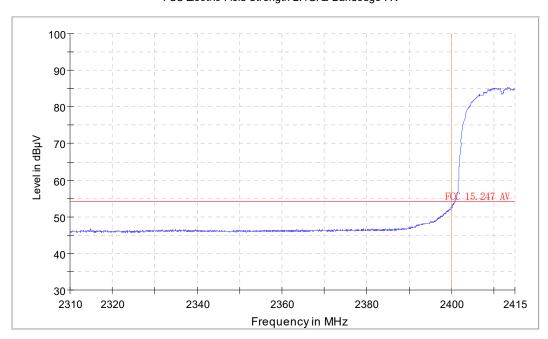
Horizontal, 802.11n HT20, Low channel, PK

FCC Electric Field Strength 2.4GHz Bandedge-PK



Horizontal, 802.11n HT20, Low channel, AV

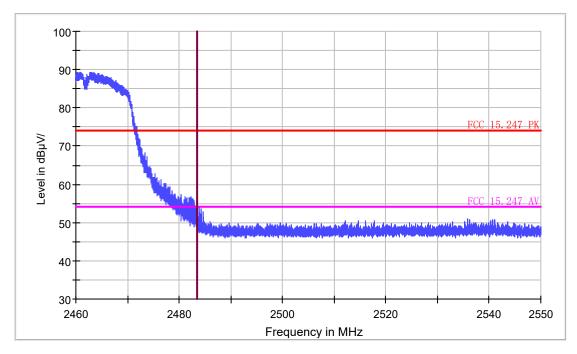
FCC Electric Field Strength 2.4GHz Bandedge-AV



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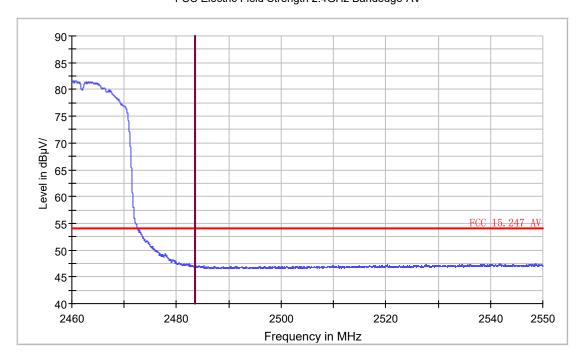
Vertical, 802.11n HT20, High channel, PK

FCC Electric Field Strength 2.4GHz Bandedge-PK



Vertical, 802.11n HT20, High channel, AV

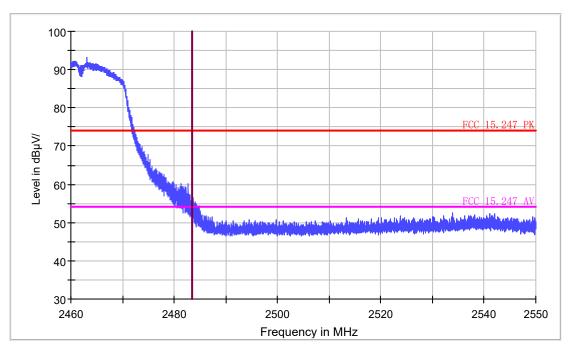
FCC Electric Field Strength 2.4GHz Bandedge-AV



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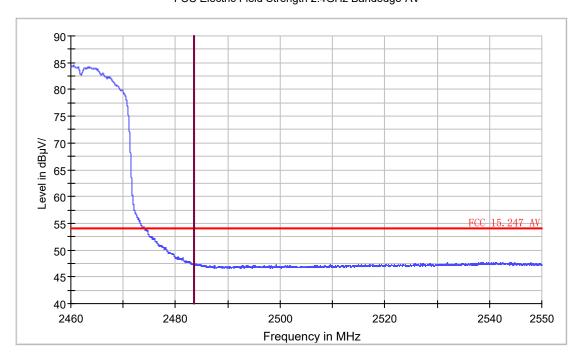
Horizontal, 802.11n HT20, High channel, PK

FCC Electric Field Strength 2.4GHz Bandedge-PK



Horizontal, 802.11n HT20, High channel, AV

FCC Electric Field Strength 2.4GHz Bandedge-AV



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11. CONDUCTED EMISSION TEST FOR AC POWER PORT MEASUREMENT

11.1.Test Standard and Limit

11.1.1.Test Standard FCC Part 15 15.207

11.1.2.Test Limit

Table 22 Conducted Disturbance Test Limit

Fraguenay	Maximum RF Line Voltage (dBμV)					
Frequency	Quasi-peak Level	Average Level				
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *				
500kHz~5MHz	56	46				
5MHz~30MHz	60	50				

^{*} Decreasing linearly with logarithm of the frequency

11.2.Test Procedure

The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through an Artificial Mains Network (A.M.N.). An EMI test receiver (R&S Test Receiver ESCS30) is used to test the emissions from both sides of AC line. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode.

The bandwidth of EMI test receiver is set at 9kHz.

11.3.Test Arrangement

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application. The detailed information refers to test picture.

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^{*} The lower limit shall apply at the transition frequency.

11.4.Test Data

The emissions don't show in below are too low against the limits. Refer to the test curves.

Table 23 Conducted Disturbance Test Data

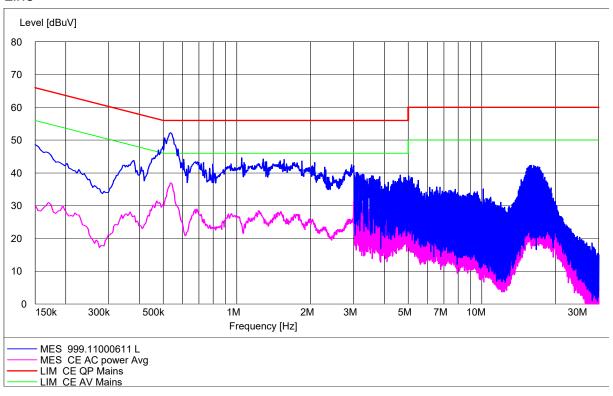
	16		iducted Dis	sturbarice	Test Data			
Model No.:								
Test mode: T	X, Worst-ca	se						
			Line					
F	Q	Р	A۱	/	QP	AV		
Frequency	Level	Limit	Level	Limit	Reading	Reading	Factor	
MHz	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	
0.150	42.6	66	29.8	56	32.9	20.1	9.7	
0.534	47.8	56	36.5	46	38.0	26.7	9.8	
0.678	38.5	56	28.1	46	28.7	18.3	9.8	
1.046	34.7	56	24.2	46	24.9	14.4	9.8	
1.278	36.8	56	26.5	46	27.0	16.7	9.8	
15.956	37.7	60	27.7	50	27.8	17.8	9.9	
			Neutra	al				
F	Q	Р	A۱	/	QP	AV	F 4	
Frequency	Level	Limit	Level	Limit	Reading	Reading	Factor	
MHz	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	
0.150	42.0	66	28.8	56	32.3	19.1	9.7	
0.526	44.9	56	37.7	46	35.1	27.9	9.8	
0.686	35.7	56	28.2	46	25.9	18.4	9.8	
1.058	29.8	56	22.7	46	20.0	12.9	9.8	
1.810	33.6	56	26.5	46	23.8	16.7	9.8	
17.296	33.4	60	23.7	50	23.5	13.8	9.9	

REMARKS: 1. Emission level(dBuV)=Read Value(dBuV) + Correction Factor(dB)

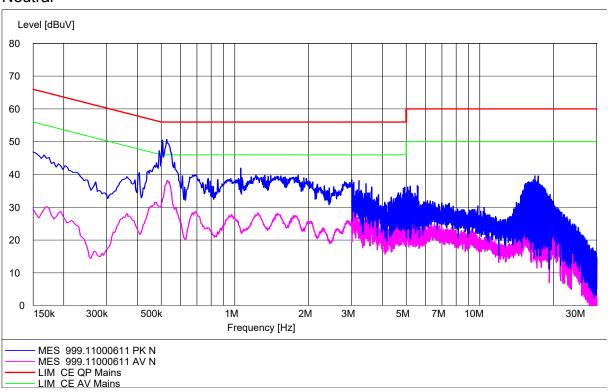
- 2. Correction Factor(dB) =LISN Factor (dB) + Cable Factor (dB)+Limiter Factor(dB)
- 3. The other emission levels were very low against the limit.

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Line



Neutral



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12. ANTENNA REQUIREMENTS

12.1.Applicable requirements

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. 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 FCC rule.

12.2.Antenna Connector

The EUT has not external antenna connector and built in monopole antenna which is integrated inside the enclosure.

12.3.Antenna Gain

The antenna gain of EUT is less than 6 dBi.

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