



FCC 47 CFR PART 15 SUBPART E

Applicant : EDIMAX TECHNOLOGY CO., LTD.

Product Type : AC900 Outdoor AP

Trade Name : EDIMAX

Model Number : EW-7429HOA, GAP-429HOA, OAP900

Applicable Standard : FCC 47 CFR PART 15 SUBPART E
ANSI C63.10:2013

Receive Date : Feb. 22, 2016

Test Period : Feb. 26 ~ Apr. 28, 2016

Issue Date : Jul. 01, 2016

Issue by

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Taiwan Accreditation Foundation accreditation number: 1330

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Revision History

Rev.	Issue Date	Revisions	Revised By
00	Jul. 01, 2016	Initial Issue	Snow Wang



Verification of Compliance

Issued Date: Jul. 01, 2016

Applicant : EDIMAX TECHNOLOGY CO., LTD.
Product Type : AC900 Outdoor AP
Trade Name : EDIMAX
Model Number : EW-7429HOA, GAP-429HOA, OAP900
FCC ID : NDD9574291601
EUT Rated Voltage : DC 48V, 1A
Test Voltage : 120 Vac / 60 Hz
Applicable Standard : FCC 47 CFR PART 15 SUBPART E
ANSI C63.10:2013
Test Result : Complied
Application Purpose : Class II permissive change
Performing Lab. : A Test Lab Techno Corp.
No. 140-1, Changan Street, Bade District,
Taoyuan City 33465, Taiwan (R.O.C)
Tel : +86-3-2710188 / Fax : +86-3-2710190
Taiwan Accreditation Foundation accreditation number: 1330
<http://www.atl-lab.com.tw/e-index.htm>

A Test Lab Techno Corp. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by A Test Lab Techno Corp. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Approved By : Fly Lu Reviewed By : Eric Ou Yang
(Manager) (Fly Lu) (Testing Engineer) (Eric Ou Yang)

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1 General Information

1.1. Summary of Test Result

Standard	Item	Result	Remark
15.407(b)(6) 15.207	AC Power Conducted Emission	PASS	---
15.407(b) 15.205 / 15.209	Transmitter Radiated Emissions	PASS	---
15.407(a)	Maximum Conducted Output Power	PASS	---
15.407(a)	26dB RF Bandwidth	Reference	---
15.407(e)	6dB RF Bandwidth	PASS	---
15.407(a)	Peak Power Spectral Density	PASS	---
15.407(g)	Frequency Stability	PASS	---
15.407(a) 15.203	Antenna Requirement	PASS	---

The test results of this report relate only to the tested sample(s) identified in this report. Manufacturer or whom it may concern should recognize the pass or fail of the test result.

1.2. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty
Conducted Emission	9kHz ~ 150KHz	2.7 dB
	150kHz ~ 30MHz	2.8 dB
Radiated Emission	9kHz ~ 30MHz	1.457 dB
	30MHz ~ 1000MHz	6.300 dB
	1000MHz ~ 18000MHz	5.474 dB
	18000MHz ~ 26500MHz	5.630 dB
	26500MHz ~ 40000MHz	5.054 dB
Conducted Output Power		+0.27 dB / -0.28 dB
RF Bandwidth		4.96%
Power Spectral Density		+0.71 dB / -0.77 dB
Frequency Stability		+ 2.212 x 10 ⁻⁷ % / - 2.170 x 10 ⁻⁷ %
Duty Cycle		1.06%
Time Occupancy		1.40%

2 EUT Description

Applicant	EDIMAX TECHNOLOGY CO., LTD. No.3, Wu-Chuan 3rd Road, Wu-Gu, New Taipei City 24891, Taiwan			
Manufacturer	EDIMAX TECHNOLOGY CO., LTD. No.3, Wu-Chuan 3rd Road, Wu-Gu, New Taipei City 24891, Taiwan			
Product Type	AC900 Outdoor AP			
Trade Name	EDIMAX			
Model Number	EW-7429HOA, GAP-429HOA, OAP900			
Model Number Different Description	Those model numbers differ from each other in selling region.			
FCC ID	NDD9574291601			
Class II Permissive Change	Add U-NII Band II function by software control.			
Operate Frequency	Frequency Band		Frequency Range (MHz)	Number of Channels
	IEEE 802.11a	U-NII Band II-A	5260 – 5320	4
		U-NII Band II-C	5500 – 5700	11
	IEEE 802.11n 20 MHz / IEEE 802.11ac 20 MHz	U-NII Band II-A	5260 – 5320	4
		U-NII Band II-C	5500 – 5700	11
	IEEE 802.11n 40 MHz / IEEE 802.11ac 40 MHz	U-NII Band II-A	5270 – 5310	2
		U-NII Band II-C	5510 – 5670	5
	IEEE 802.11ac 80 MHz	U-NII Band II-A	5290	1
U-NII Band II-C		5530 –5610	2	
Modulation Type	OFDM			
Equipment Type	Outdoor access point have (master / client) function			
Antenna information	Antenna	Model	Type	Max. Gain (dBi)
	Internal	C059-690332-A	PCB Antenna (I-PEX Connector)	13.9
	External	C059-690332-FOD	PCB Antenna (Reversed-SMA Connector)	12.9
Antenna Delivery	IEEE 802.11a : 1TX + 1RX IEEE 802.11ac 20 MHz / 40 MHz / 80 MHz : 2TX + 2RX			
Frequency Stability Specification	± 20 ppm			
Component List				
Power adapter	Trade Name	DVE	Model Number	DSA-48PFA-48 2 480100
	I/P: 100-240VAC, 50/60Hz, 1.2A			
	O/P: +48VDC, 1A			
	Cable in: Non-Shielded, 1.4m, Detachable at Power Adapter			
	Cable out: Non-Shielded, 1.4m, Non-Detachable at Power Adapter			
PoE adapter	Trade Name	EDIMAX	Model Number	PE-1000IPF
	I/P: 100-240VAC, 50-60Hz, 0.75A			
	O/P: 48VDC, 1A			



Frequency Band		RF Output Power (W)
IEEE 802.11a	U-NII Band II-A	0.028
	U-NII Band II-C	0.013
IEEE 802.11ac 20 MHz	U-NII Band II-A	0.015
	U-NII Band II-C	0.016
IEEE 802.11ac 40 MHz	U-NII Band II-A	0.017
	U-NII Band II-C	0.017
IEEE 802.11ac 80 MHz	U-NII Band II-A	0.018
	U-NII Band II-C	0.018

3 Test Methodology

3.1. Mode of Operation

Decision of Test ATL has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Test Mode
Mode 1: Normal Operation Mode
Mode 2: IEEE 802.11a Link Mode
Mode 3: IEEE 802.11ac 20MHz link mode
Mode 4: IEEE 802.11ac 40MHz link mode
Mode 5: IEEE 802.11ac 80MHz Link Mode

Software used to control the EUT for staying in continuous transmitting mode was programmed.

After verification, all tests were carried out with the worst case test modes as shown below except radiated spurious emission below 1GHz and power line conducted emissions below 30MHz, which worst case was in normal link mode only.

Note: 1.The EUT has two antenna options for internal and external. The EUT is via software control choosing internal or external antenna for transmission. (Every time only one antenna is available.)

2. Because the master and the client's power setting are the same, there is only one data to perform.

Equipment Type	
Outdoor access point	V
Indoor access point	---
Fixed point-to-point access points	---
Client devices	V

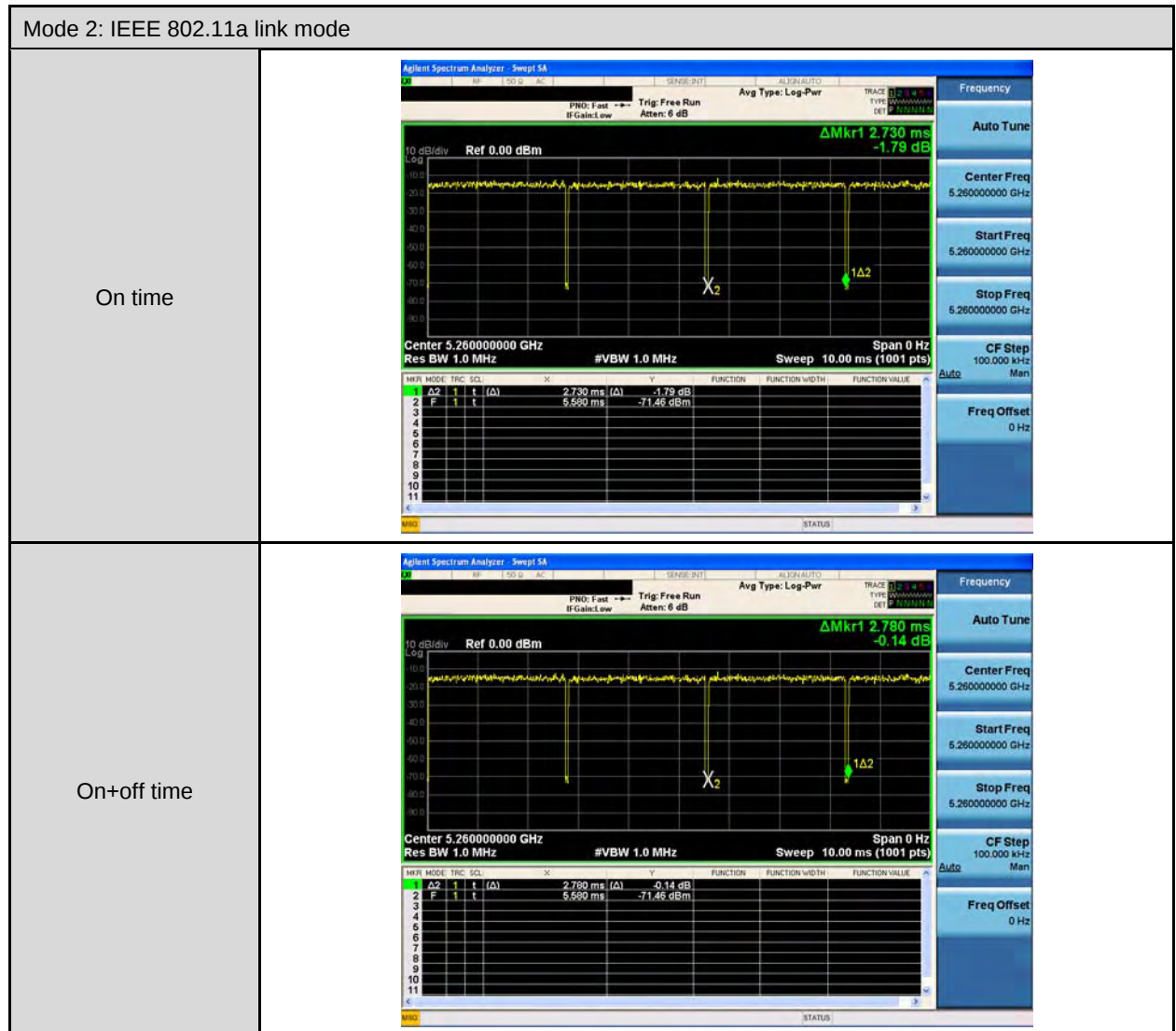
Test Mode	ANT-0	ANT-1	ANT-0+1
Mode 2	V	---	---
Mode 3	V	V	V
Mode 4	V	V	V
Mode 5	V	V	V

Test Mode	Band	Data Rate	Test Channel
Mode 2	U-NII Band II-A	6M	52, 56, 64
	U-NII Band II-C		100, 112, 140
Mode 3	U-NII Band II-A	13M	52, 56, 64
	U-NII Band II-C		100, 112, 140
Mode 4	U-NII Band II-A	27M	54, 62
	U-NII Band II-C		102, 110, 134
Mode 5	U-NII Band II-A	58.6	58
	U-NII Band II-C		106, 122



Duty cycle

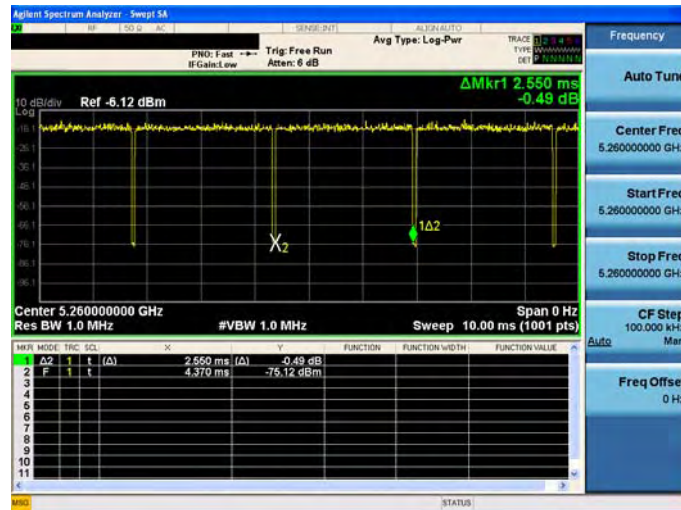
Test Mode	Frequency (MHz)	on time (ms)	on+off time (ms)	Duty cycle	Duty Factor (dB)	1/T Minimum VBW (kHz)
Mode 2	5260.0	2.730	2.780	0.982	0.079	0.010
Mode 3	5260.0	2.550	2.600	0.981	0.084	0.010
Mode 4	5270.0	1.260	1.310	0.962	0.169	0.794
Mode 5	5290.0	0.620	0.660	0.939	0.272	1.613





Mode 3: IEEE 802.11ac 20MHz link mode

On time



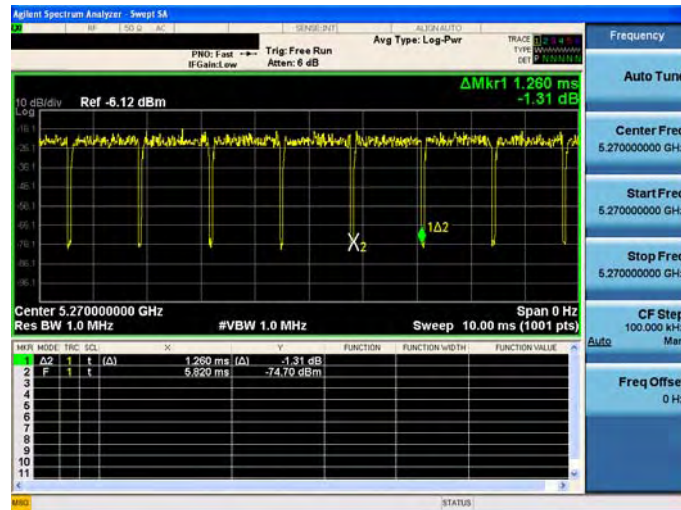
On+off time



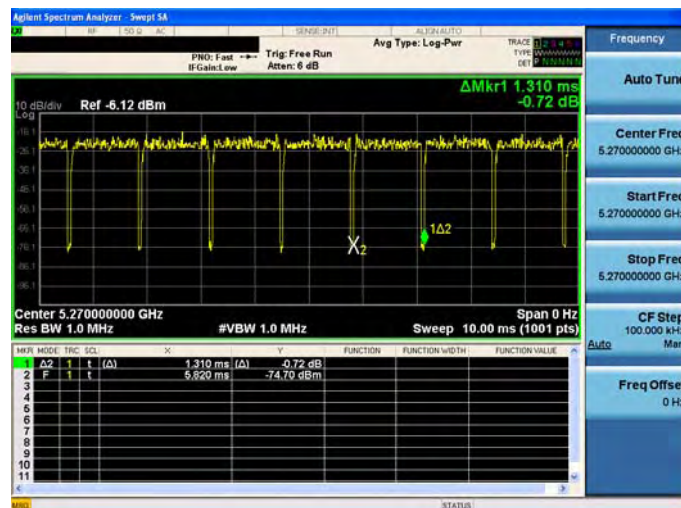


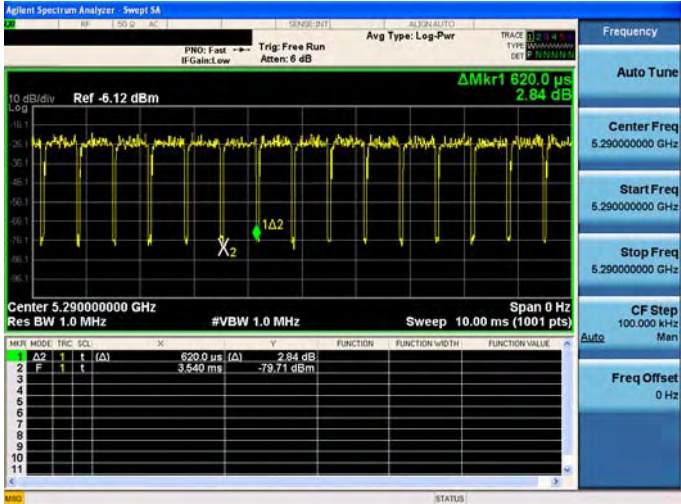
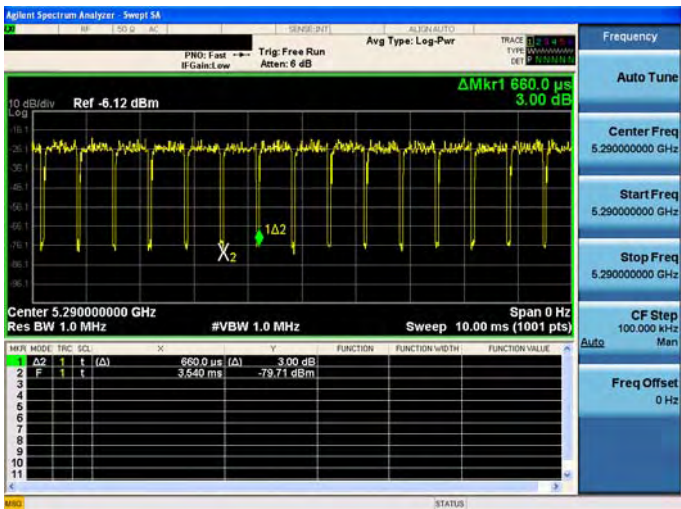
Mode 4: IEEE 802.11ac 40MHz link mode

On time



On+off time



Mode 5: IEEE 802.11ac 80MHz Link Mode	
On time	
On+off time	

3.2. EUT Exercise Software

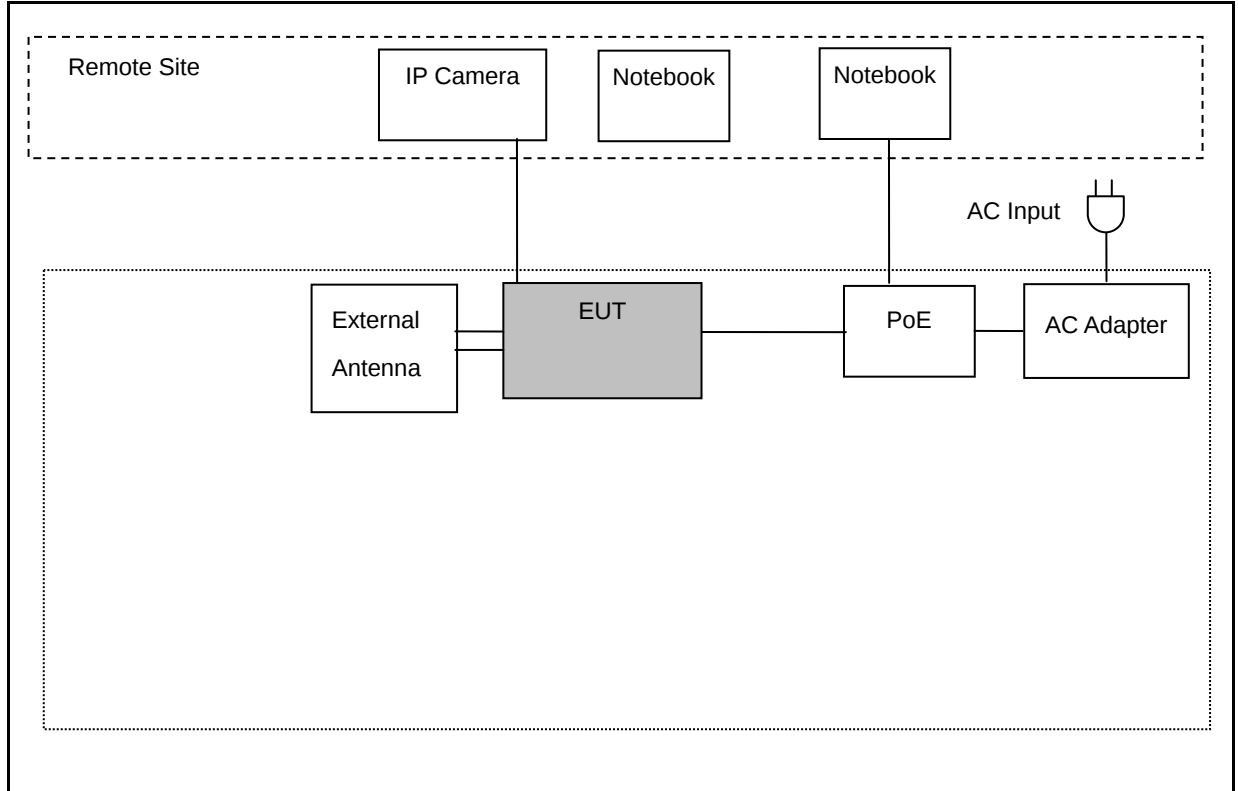
The EUT is operated in the engineering mode to fix the TX frequency for the purposes of measurement. According to its specifications, the EUT must comply with the requirements of Section 15.407 under the FCC Rules Part 15 Subpart E.

1.	Setup the EUT shown on 3.3.
2.	Turn on the power of all equipment.
3.	EUT run test program.

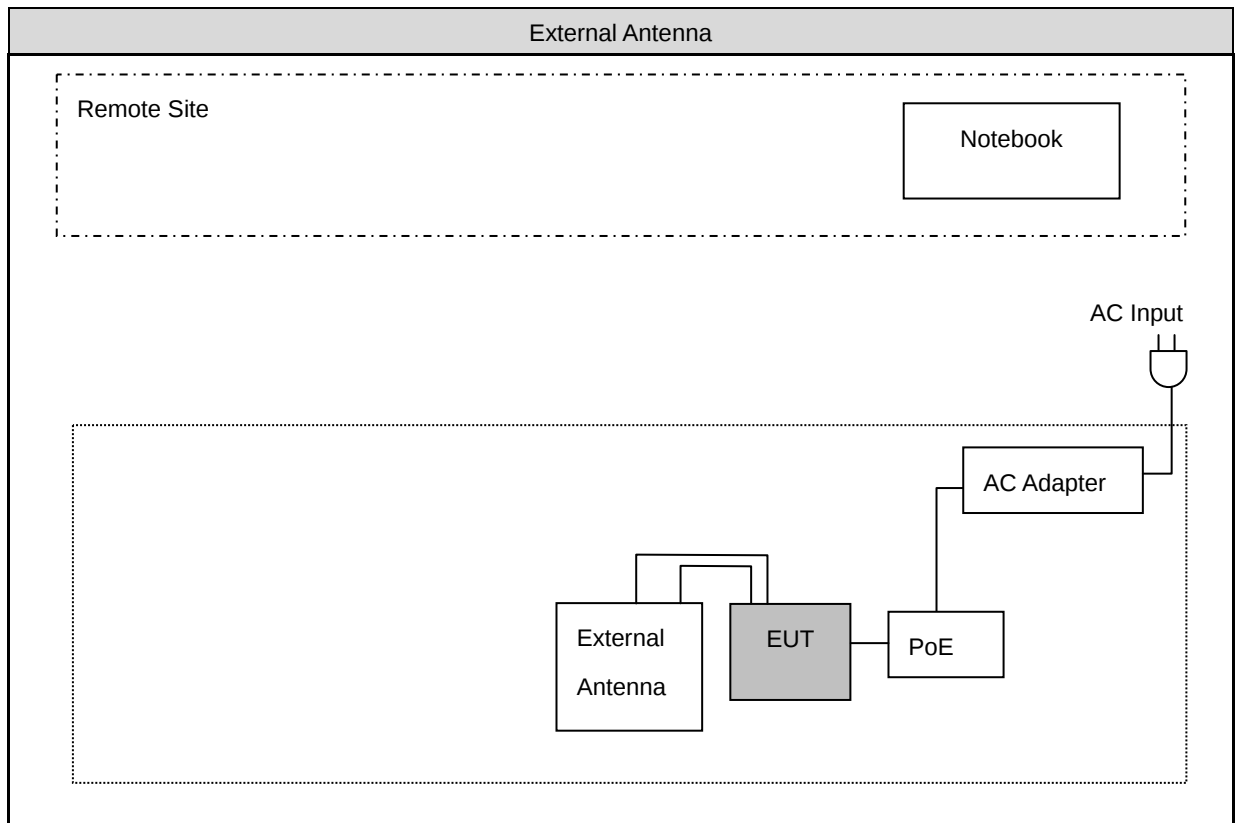
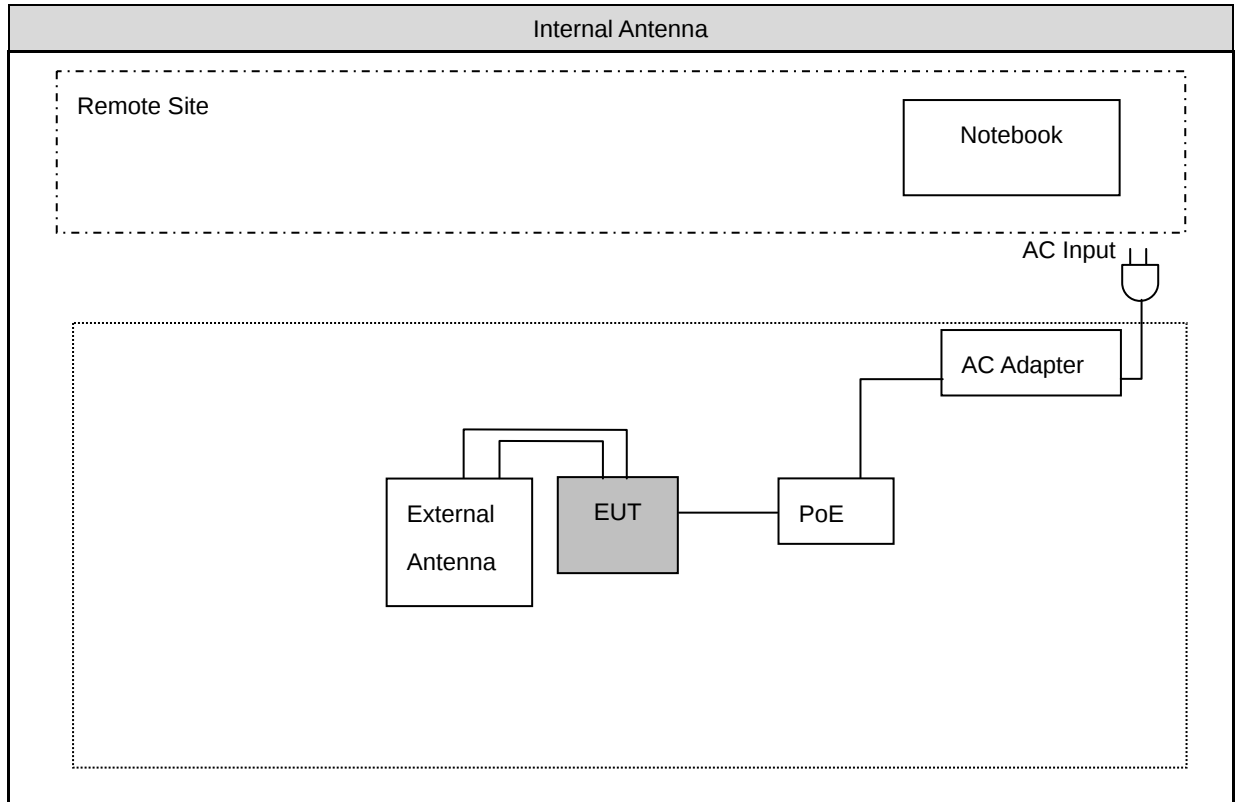
Measurement Software	
1	EZ-EMC Ver. ATL-03A1-1
2	EZ-EMC Ver ATL-ITC-3A1-1

3.3. Configuration of Test System Details

Conducted Emission



Radiated Emission





3.4. Test Site Environment

Items	Required (IEC 60068-1)	Actual
Temperature (°C)	15-35	26
Humidity (%RH)	25-75	60
Barometric pressure (mbar)	860-1060	950

4 Test Results

4.1. AC Power Conducted Emission Measurement

■ Limit

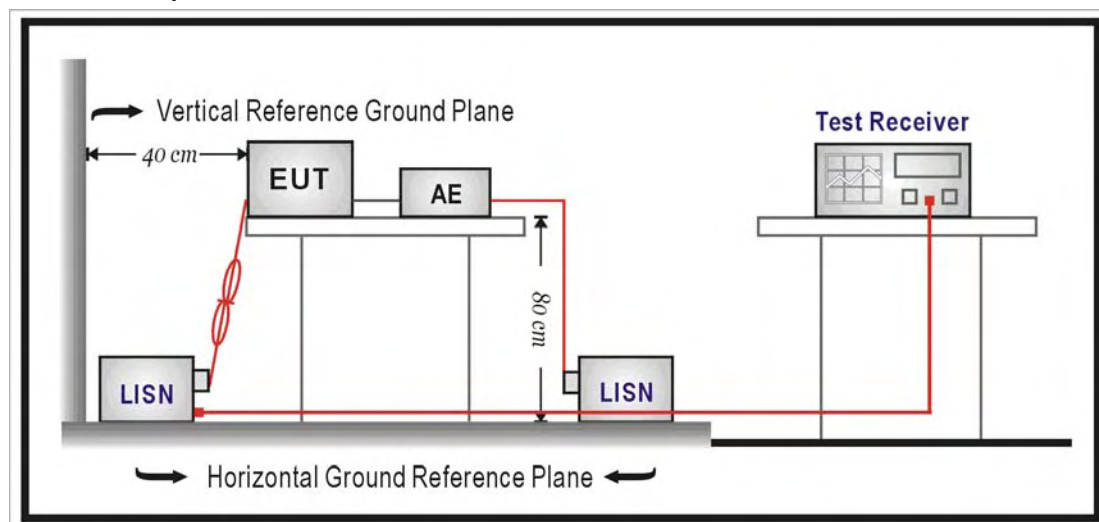
Frequency (MHz)	Quasi-peak	Average
0.15 - 0.5	66 to 56	56 to 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

■ Test Instruments

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Test Receiver	R&S	ESCI	100367	06/25/2015	1 year
LISN	R&S	ENV216	101040	03/10/2015	1 year
LISN	R&S	ENV216	101041	03/06/2015	1 year
RF Cable	Woken	00100D1380194M	TE-02-02	06/26/2015	1 year
Test Site	ATL	TE02	TE02	N.C.R.	-----

Note: N.C.R. = No Calibration Request.

■ Test Setup



■ Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a $50\Omega//50\mu\text{H}$ coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a $50\Omega//50\mu\text{H}$ coupling impedance with 50ohm termination.

Tabletop device shall be placed on a non-conducting platform, of nominal size 1 m by 1.5 m, raised 80 cm above the reference ground plane. The wall of screened room shall be located 40cm to the rear of the EUT. Other surfaces of tabletop or floor standing EUT shall be at least 80cm from any other ground conducting surface including one or more LISNs. For floor-standing device shall be placed under the EUT with a 12mm insulating material.

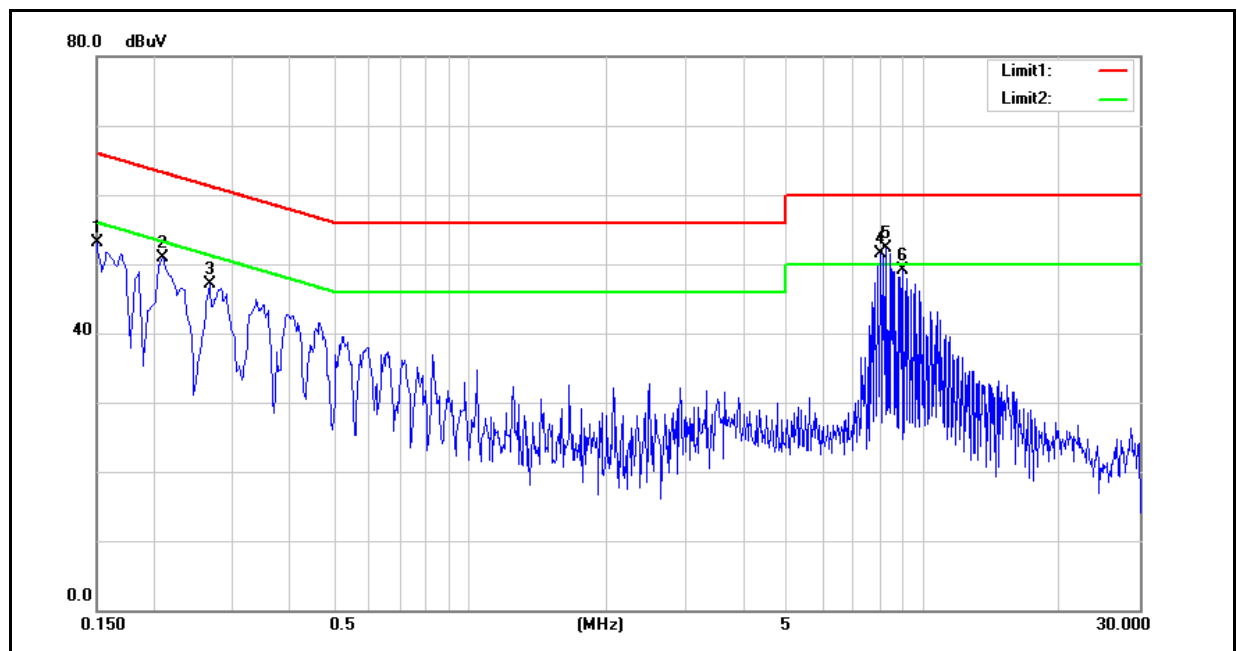
Conducted emissions were investigated over the frequency range from 0.15 MHz to 30 MHz using a resolution bandwidth of 9 kHz. The equipment under test (EUT) shall be meet the limits in section 4.1, as applicable, including the average limit and the quasi-peak limit when using respectively, an average detector and quasi-peak detector measured in accordance with the methods described of related standard. When all of peak value were complied with quasi-peak and average limit from 150kHz to 30MHz then quasi-peak and average measurement was unnecessary.

The AMN shall be placed 0,8 m from the boundary of the unit under test and bonded to a ground reference plane for AMNs mounted on top of the ground reference plane. This distance is between the closest points of the AMN and the EUT. All other units of the EUT and associated equipment shall be at least 0,8 m from the AMN. If the mains power cable is longer than 1m then the cable shall be folded back and forth at the centre of the lead to form a bundle no longer than 0.4m. All of interconnecting cables that hang closer than 40cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long. All of EUT and AE shall be separate place more than 0.1m. All 50 Ω ports of the LISN shall be resistively terminated into 50 Ω loads when not connected to the measuring instrument.

If the reading of the measuring receiver shows fluctuations close to the limit, the reading shall be observed for at least 15 s at each measurement frequency; the higher reading shall be recorded with the exception of any brief isolated high reading which shall be ignored.

Test Result

Standard:	FCC Part 15E	Line:	L1
Test item:	Conducted Emission	Power:	AC 120V/60Hz
Model Number:	EW-7429HOA	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Test Mode:	Mode 1	Date:	02/26/2016
		Test By:	Eric Ou Yang
Description:			

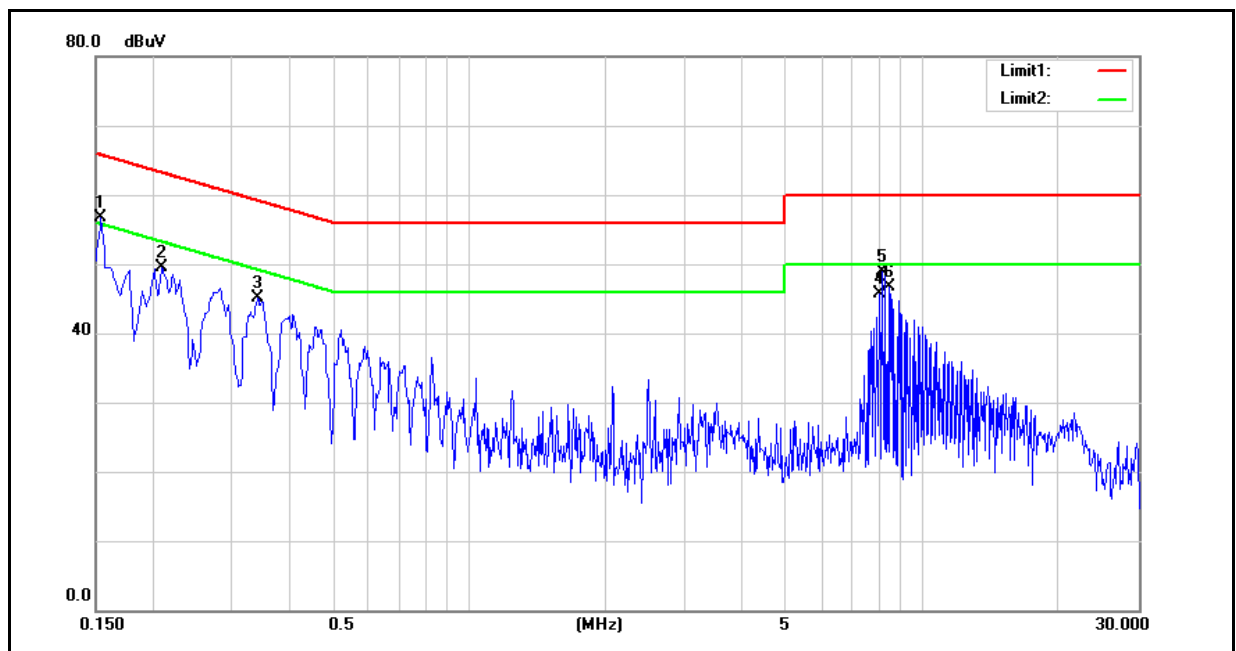


No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1500	43.82	33.92	9.69	53.51	43.61	66.00	56.00	-12.49	-12.39	Pass
2	0.2100	36.42	29.75	9.68	46.10	39.43	63.21	53.21	-17.11	-13.78	Pass
3	0.2660	31.73	24.45	9.69	41.42	34.14	61.24	51.24	-19.82	-17.10	Pass
4	7.9380	34.70	30.29	9.93	44.63	40.22	60.00	50.00	-15.37	-9.78	Pass
5	8.3020	41.28	38.59	9.94	51.22	48.53	60.00	50.00	-8.78	-1.47	Pass
6	9.0340	37.73	36.54	9.96	47.69	46.50	60.00	50.00	-12.31	-3.50	Pass

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.

Standard:	FCC Part 15E	Line:	N
Test item:	Conducted Emission	Power:	AC 120V/60Hz
Model Number:	EW-7429HOA	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Test Mode:	Mode 1	Date:	02/26/2016
		Test By:	Eric Ou Yang
Description:			



No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1540	42.49	30.52	9.66	52.15	40.18	65.78	55.78	-13.63	-15.60	Pass
2	0.2100	36.21	29.38	9.65	45.86	39.03	63.21	53.21	-17.35	-14.18	Pass
3	0.3420	33.06	25.94	9.66	42.72	35.60	59.15	49.15	-16.43	-13.55	Pass
4	7.9380	36.45	32.51	9.92	46.37	42.43	60.00	50.00	-13.63	-7.57	Pass
5	8.1820	40.45	36.98	9.93	50.38	46.91	60.00	50.00	-9.62	-3.09	Pass
6	8.5460	34.85	32.58	9.94	44.79	42.52	60.00	50.00	-15.21	-7.48	Pass

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.

4.2. Transmitter Radiated Emissions Measurement

■ Limit

(1)Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

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

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

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

(d)For transmitters operating in the 5.725-5.85 GHz band:

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

(2)Limits of Radiated Emission Measurement

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

Frequency Range (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	10	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

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

2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.



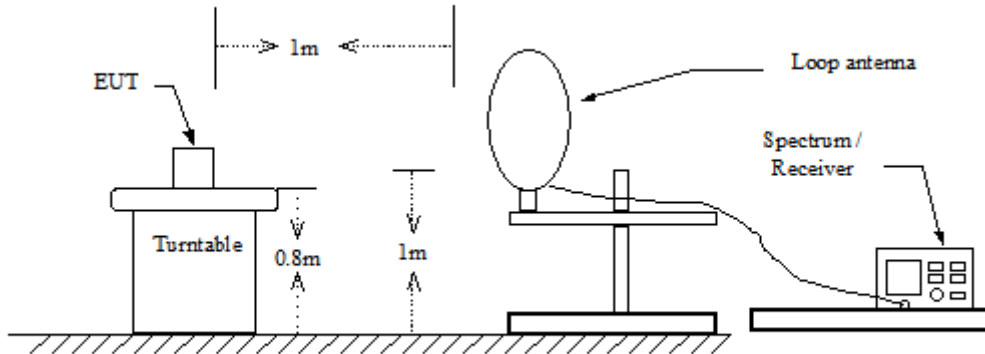
■ Test Instruments

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
RF Pre-selector	Agilent	N9039A	MY46520256	01/08/2016	1 year
Spectrum Analyzer	Agilent	E4446A	MY46180578	01/08/2016	1 year
Pre Amplifier	Agilent	8449B	3008A02237	10/07/2015	1 year
Pre Amplifier	Agilent	8447D	2944A11119	01/11/2016	1 year
Broadband Antenna	Schwarzbeck	VULB9168	416	09/25/2015	1 year
Horn Antenna (1~18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	06/12/2015	1 year
Horn Antenna (18~40GHz)	ETS	3116	86467	09/01/2015	1 year
Microwave Cable	EMCI	EMC102-KM-KM- 14000	151001	10/15/2015	1 year
Microwave Cable	EMCI	EMC-104-SM-SM- 14000	140202	10/15/2015	1 year
Microwave Cable	EMCI	EMC104-SM-SM- 600	140301	10/15/2015	1 year
Test Site	ATL	TE01	888001	08/27/2015	1 year

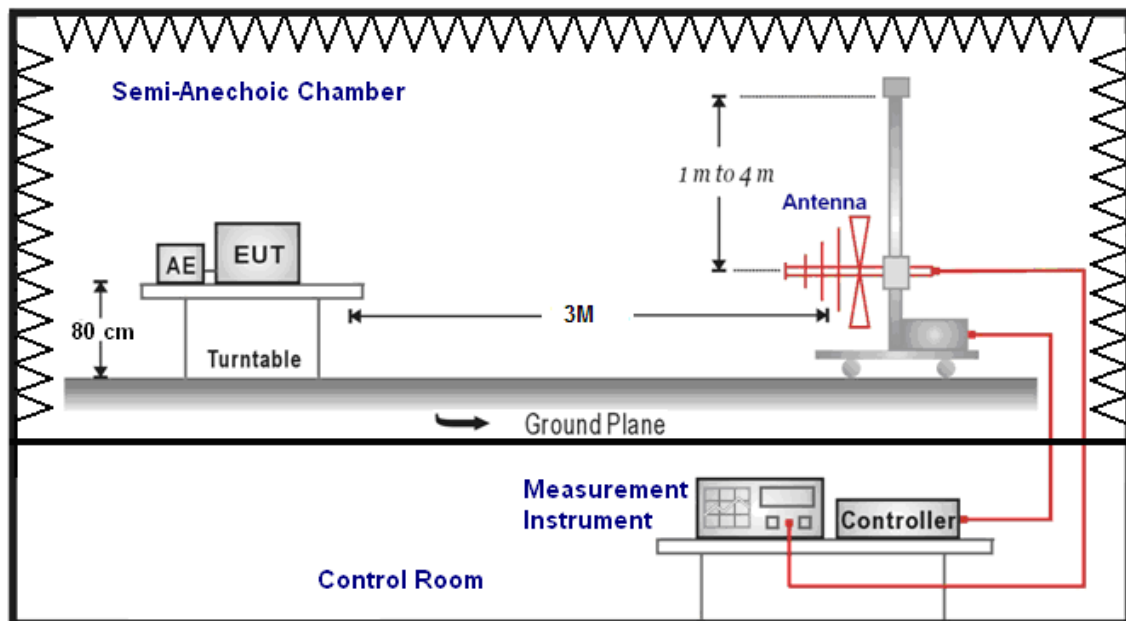
Note: N.C.R. = No Calibration Request.

■ Setup

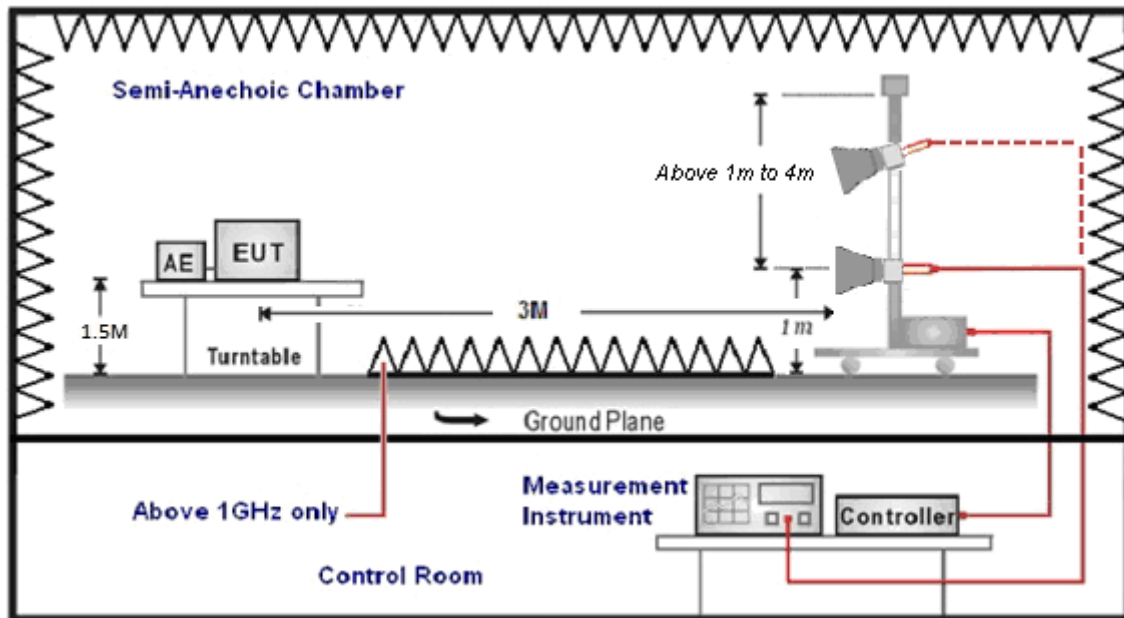
9kHz ~ 30MHz



30MHz ~ 1GHz



Above 1GHz



■ Test Procedure

Final radiation measurements were made on a three-meter, Semi Anechoic Chamber. The EUT system was placed on a nonconductive turntable which is 0.8 or 1.5 meters height (below 1GHz use 0.8m turntable / above 1GHz use 1.5m turntable), top surface 1.0 x 1.5 meter. The spectrum was examined from 250 MHz to 2.5 GHz in order to cover the whole spectrum below 10th harmonic which could generate from the EUT. During the test, EUT was set to transmit continuously & Measurements spectrum range from 9 kHz to 40 GHz is investigated.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For restricted measurements above 1 GHz the resolution bandwidth is set to 1 MHz, and then the video bandwidth is set to 3 MHz for peak measurements and 10 Hz for average measurements when Duty cycle > 0.98 / 1/T for average measurements when Duty cycle < 0.98.

For out of band measurements above 1 GHz the resolution bandwidth is set to 1 MHz, and then the video bandwidth is set to 3 MHz for peak measurements.

A nonconductive material surrounded the EUT to supporting the EUT for standing on three orthogonal planes. At each condition, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters to find the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarization.

SCHWARZBECK MESS-ELEKTRONIK Trilog-Broadband Antenna at 3 Meter and the ETS-Lindgren Double-Ridged Waveguide Horn antenna Schwarzbeck Mess-Elektronik Broadband Horn Antenna was used in frequencies 1 – 40 GHz at a distance of 3 meter. The antenna at an angle toward the source of the emission. All test results were extrapolated to equivalent signal at 3 meters utilizing an inverse linear distance extrapolation Factor (20dB/decade).

For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

Appropriate preamplifiers were used for improving sensitivity and precautions were taken to avoid overloading or desensitizing the spectrum analyzer. No post – detector video filters were used in the test.

The spectrum analyzer's 6 dB bandwidth was set to 1 MHz, and the analyzer was operated in the peak detection mode, for frequencies both below and up 1 GHz. The average levels were obtained by subtracting the duty cycle correction factor from the peak readings.

The following procedures were used to convert the emission levels measured in decibels referenced to 1 microvolt (dBuV) into field intensity in micro volts per meter (uV/m).

The actual field intensity in decibels referenced to 1 microvolt in to field intensity in micro volts per meter (dBuV/m).

The actual field intensity in referenced to 1 microvolt per meter (dBuV/m) is determined by algebraically adding the measured reading in dBuV, the antenna factor (dB), and cable loss (dB) and Subtracting the gain of preamplifier (dB) is auto calculate in spectrum analyzer.

$$(1) \text{ Amplitude (dBuV/m) = FI (dBuV) + AF (dBuV) + CL (dBuV) - Gain (dB)}$$

FI= Reading of the field intensity.

AF= Antenna factor.

CL= Cable loss.

P.S Amplitude is auto calculate in spectrum analyzer.

$$(2) \text{ Actual Amplitude (dBuV/m) = Amplitude (dBuV) - Dis(dB)}$$

The FCC specified emission limits were calculated according the EUT operating frequency and by following linear interpolation equations:

(a) For fundamental frequency : Transmitter Output < +30dBm

(b) For spurious frequency : Spurious emission limits = fundamental emission limit /10

Measuring Instruments and setting

The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000MHz
Stop Frequency	40GHz
RBW/VBW(Emission in restricted band)	1MHz / 3MHz for Peak 1MHz / (1/T) for Average
RBW/VBW(Emission in non-restricted band)	1MHz / 3MHz for Peak



■ Test Result

Below 1GHz

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Transmitter Radiated Emissions			Power:	AC 120V/60Hz		
Model Number:	EW-7429HOA			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 1			Date:	03/27/2016		
				Test By:	Eric Ou Yang		
Internal Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
236.6100	31.95	-6.92	25.03	46.00	-20.97	QP	H
318.0900	30.54	-3.61	26.93	46.00	-19.07	QP	H
400.5400	28.24	-2.03	26.21	46.00	-19.79	QP	H
592.6000	27.84	2.34	30.18	46.00	-15.82	QP	H
730.3400	28.78	5.19	33.97	46.00	-12.03	QP	H
813.7600	27.29	6.65	33.94	46.00	-12.06	QP	H
282.2000	27.34	-4.44	22.90	46.00	-23.10	QP	V
344.2800	27.71	-3.18	24.53	46.00	-21.47	QP	V
422.8500	28.18	-1.39	26.79	46.00	-19.21	QP	V
588.7200	28.44	2.23	30.67	46.00	-15.33	QP	V
701.2400	27.83	4.37	32.20	46.00	-13.80	QP	V
850.6200	28.34	7.22	35.56	46.00	-10.44	QP	V

Note: 1. No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz).

2. Result = Correction factor + Reading

3. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	EW-7429HOA			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 1			Date:	04/28/2016		
Description:				Test By:	Eric Ou Yang		
External Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
244.5000	27.10	-5.60	21.50	46.00	-24.50	QP	H
371.5000	26.34	-2.25	24.09	46.00	-21.91	QP	H
531.5000	26.15	1.19	27.34	46.00	-18.66	QP	H
559.5000	27.13	1.74	28.87	46.00	-17.13	QP	H
769.5000	25.72	6.29	32.01	46.00	-13.99	QP	H
948.0000	24.42	9.60	34.02	46.00	-11.98	QP	H
220.0000	28.62	-7.37	21.25	46.00	-24.75	QP	V
298.5000	25.58	-3.42	22.16	46.00	-23.84	QP	V
474.0000	26.90	0.27	27.17	46.00	-18.83	QP	V
599.5000	26.09	2.91	29.00	46.00	-17.00	QP	V
701.5000	25.72	4.69	30.41	46.00	-15.59	QP	V
874.0000	25.83	8.05	33.88	46.00	-12.12	QP	V

Note: 1. No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz).

2. Result = Correction factor + Reading

3. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Above 1GHz

Standard:	FCC Part 15E		Test Distance:	3m			
Test item:	Transmitter Radiated Emissions		Power:	AC 120V/60Hz			
Model Number:	EW-7429HOA		Temp.(℃)/Hum.(%RH):	26(℃)/60%RH			
Test Mode:	Mode 2		Date:	03/25/2016			
Frequency:	5260MHz		Test By:	Eric Ou Yang			
Internal Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
10520.000	51.38	5.32	56.70	68.20	-11.50	peak	H
10520.000	60.49	5.32	65.81	68.20	-2.39	peak	V

Standard:	FCC Part 15E		Test Distance:	3m			
Test item:	Transmitter Radiated Emissions		Power:	AC 120V/60Hz			
Model Number:	EW-7429HOA		Temp.(°C)/Hum.(%RH):	26(°C)/60%RH			
Test Mode:	Mode 2		Date:	03/25/2016			
Frequency:	5280MHz		Test By:	Eric Ou Yang			
Internal Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
10560.000	49.43	5.37	54.80	68.20	-13.40	peak	H
10560.000	59.69	5.37	65.06	68.20	-3.14	peak	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E		Test Distance:	3m			
Test item:	Transmitter Radiated Emissions		Power:	AC 120V/60Hz			
Model Number:	EW-7429HOA		Temp.(℃)/Hum.(%RH):	26(℃)/60%RH			
Test Mode:	Mode 2		Date:	03/25/2016			
Frequency:	5320MHz		Test By:	Eric Ou Yang			
Internal Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
10640.000	46.24	5.49	51.73	74.00	-22.27	peak	H
10640.000	63.86	5.49	69.35	74.00	-4.65	peak	V
10640.000	47.61	5.49	53.10	54.00	-0.90	AVG	V

Standard:	FCC Part 15E		Test Distance:	3m			
Test item:	Transmitter Radiated Emissions		Power:	AC 120V/60Hz			
Model Number:	EW-7429HOA		Temp.(°C)/Hum.(%RH):	26(°C)/60%RH			
Test Mode:	Mode 2		Date:	03/25/2016			
Frequency:	5500MHZ		Test By:	Eric Ou Yang			
Internal Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
11000.000	45.24	5.98	51.22	74.00	-22.78	peak	H
11000.000	56.74	5.98	62.72	74.00	-11.28	peak	V
11000.000	47.21	5.98	53.19	54.00	-0.81	AVG	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E		Test Distance:	3m			
Test item:	Transmitter Radiated Emissions		Power:	AC 120V/60Hz			
Model Number:	EW-7429HOA		Temp.(℃)/Hum.(%RH):	26(℃)/60%RH			
Test Mode:	Mode 2		Date:	03/25/2016			
Frequency:	5560MHz		Test By:	Eric Ou Yang			
Internal Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
11120.000	45.86	6.08	51.94	74.00	-22.06	peak	H
11120.000	56.50	6.08	62.58	74.00	-11.42	peak	V
11120.000	47.03	6.08	53.11	54.00	-0.89	AVG	V

Standard:	FCC Part 15E		Test Distance:	3m			
Test item:	Transmitter Radiated Emissions		Power:	AC 120V/60Hz			
Model Number:	EW-7429HOA		Temp.(°C)/Hum.(%RH):	26(°C)/60%RH			
Test Mode:	Mode 2		Date:	03/25/2016			
Frequency:	5700MHZ		Test By:	Eric Ou Yang			
Internal Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
11400.000	45.31	6.31	51.62	74.00	-22.38	peak	H
11400.000	62.20	6.31	68.51	74.00	-5.49	peak	V
11400.000	46.93	6.31	53.24	54.00	-0.76	AVG	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E		Test Distance:	3m			
Test item:	Transmitter Radiated Emissions		Power:	AC 120V/60Hz			
Model Number:	EW-7429HOA		Temp.(°C)/Hum.(%RH):	26(°C)/60%RH			
Test Mode:	Mode 3		Date:	03/25/2016			
Frequency:	5260MHz		Test By:	Eric Ou Yang			
Internal Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
10520.000	45.84	5.32	51.16	68.20	-17.04	peak	H
10520.000	48.34	5.32	53.66	68.20	-14.54	peak	V

Standard:	FCC Part 15E		Test Distance:	3m			
Test item:	Transmitter Radiated Emissions		Power:	AC 120V/60Hz			
Model Number:	EW-7429HOA		Temp.(℃)/Hum.(%RH):	26(℃)/60%RH			
Test Mode:	Mode 3		Date:	03/25/2016			
Frequency:	5280MHz		Test By:	Eric Ou Yang			
Internal Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
10560.000	45.93	5.37	51.30	68.20	-16.90	peak	H
10560.000	47.56	5.37	52.93	68.20	-15.27	peak	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E		Test Distance:	3m			
Test item:	Transmitter Radiated Emissions		Power:	AC 120V/60Hz			
Model Number:	EW-7429HOA		Temp.(℃)/Hum.(%RH):	26(℃)/60%RH			
Test Mode:	Mode 3		Date:	03/25/2016			
Frequency:	5320MHz		Test By:	Eric Ou Yang			
Internal Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
10640.000	45.92	5.49	51.41	74.00	-22.59	peak	H
10640.000	52.25	5.49	57.74	74.00	-16.26	peak	V
10640.000	41.46	5.49	46.95	54.00	-7.05	AVG	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Transmitter Radiated Emissions			Power:	AC 120V/60Hz		
Model Number:	EW-7429HOA			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 3			Date:	03/25/2016		
Frequency:	5500MHZ			Test By:	Eric Ou Yang		
Internal Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
11000.000	45.18	5.98	51.16	74.00	-22.84	peak	H
11000.000	51.91	5.98	57.89	74.00	-16.11	peak	V
11000.000	43.27	5.98	49.25	54.00	-4.75	AVG	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E		Test Distance:	3m			
Test item:	Transmitter Radiated Emissions		Power:	AC 120V/60Hz			
Model Number:	EW-7429HOA		Temp.(℃)/Hum.(%RH):	26(℃)/60%RH			
Test Mode:	Mode 3		Date:	03/25/2016			
Frequency:	5560MHz		Test By:	Eric Ou Yang			
Internal Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
11120.000	45.08	6.08	51.16	74.00	-22.84	peak	H
11120.000	51.97	6.08	58.05	74.00	-15.95	peak	V
11120.000	43.53	6.08	49.61	54.00	-4.39	AVG	V

Standard:	FCC Part 15E		Test Distance:	3m			
Test item:	Transmitter Radiated Emissions		Power:	AC 120V/60Hz			
Model Number:	EW-7429HOA		Temp.(°C)/Hum.(%RH):	26(°C)/60%RH			
Test Mode:	Mode 3		Date:	03/25/2016			
Frequency:	5700MHZ		Test By:	Eric Ou Yang			
Internal Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
11400.000	45.43	6.31	51.74	74.00	-22.26	peak	H
11400.000	59.53	6.31	65.84	74.00	-8.16	peak	V
11400.000	46.73	6.31	53.04	54.00	-0.96	AVG	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E		Test Distance:	3m			
Test item:	Transmitter Radiated Emissions		Power:	AC 120V/60Hz			
Model Number:	EW-7429HOA		Temp.(°C)/Hum.(%RH):	26(°C)/60%RH			
Test Mode:	Mode 4		Date:	03/25/2016			
Frequency:	5270MHz		Test By:	Eric Ou Yang			
Internal Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
10540.000	45.71	5.35	51.06	68.20	-17.14	peak	H
10540.000	45.77	5.35	51.12	68.20	-17.08	peak	V

Standard:	FCC Part 15E	Test Distance:	3m				
Test item:	Transmitter Radiated Emissions	Power:	AC 120V/60Hz				
Model Number:	EW-7429HOA	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH				
Test Mode:	Mode 4	Date:	03/25/2016				
Frequency:	5310MHz	Test By:	Eric Ou Yang				
Internal Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
10620.000	46.20	5.46	51.66	74.00	-22.34	peak	H
10620.000	49.59	5.46	55.05	74.00	-18.95	peak	V
10620.000	40.88	5.46	46.34	54.00	-7.66	AVG	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E		Test Distance:	3m			
Test item:	Transmitter Radiated Emissions		Power:	AC 120V/60Hz			
Model Number:	EW-7429HOA		Temp.(℃)/Hum.(%RH):	26(℃)/60%RH			
Test Mode:	Mode 4		Date:	03/25/2016			
Frequency:	5510MHz		Test By:	Eric Ou Yang			
Internal Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
11020.000	45.77	5.99	51.76	74.00	-22.24	peak	H
11020.000	50.64	5.99	56.63	74.00	-17.37	peak	V
11020.000	41.43	5.99	47.42	54.00	-6.58	AVG	V

Standard:	FCC Part 15E	Test Distance:	3m				
Test item:	Transmitter Radiated Emissions	Power:	AC 120V/60Hz				
Model Number:	EW-7429HOA	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH				
Test Mode:	Mode 4	Date:	03/25/2016				
Frequency:	5550MHz	Test By:	Eric Ou Yang				
Internal Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
11100.000	44.73	6.07	50.80	74.00	-23.20	peak	H
11100.000	48.32	6.07	54.39	74.00	-19.61	peak	V
11100.000	40.94	6.07	47.01	54.00	-6.99	AVG	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E		Test Distance:	3m			
Test item:	Transmitter Radiated Emissions		Power:	AC 120V/60Hz			
Model Number:	EW-7429HOA		Temp.(℃)/Hum.(%RH):	26(℃)/60%RH			
Test Mode:	Mode 4		Date:	03/25/2016			
Frequency:	5670MHz		Test By:	Eric Ou Yang			
Internal Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
11340.000	45.19	6.26	51.45	74.00	-22.55	peak	H
11340.000	55.64	6.26	61.90	74.00	-12.10	peak	V
11340.000	44.85	6.26	51.11	54.00	-2.89	AVG	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Transmitter Radiated Emissions			Power:	AC 120V/60Hz		
Model Number:	EW-7429HOA			Temp.(℃)/Hum.(%RH):	26(℃)/60%RH		
Test Mode:	Mode 5			Date:	03/25/2016		
Frequency:	5290MHz			Test By:	Eric Ou Yang		
Internal Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
10580.000	45.80	5.40	51.20	68.20	-17.00	peak	H
10580.000	47.83	5.40	53.23	68.20	-14.97	peak	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E		Test Distance:	3m			
Test item:	Transmitter Radiated Emissions		Power:	AC 120V/60Hz			
Model Number:	EW-7429HOA		Temp.(℃)/Hum.(%RH):	26(℃)/60%RH			
Test Mode:	Mode 5		Date:	03/25/2016			
Frequency:	5530MHz		Test By:	Eric Ou Yang			
Internal Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
11060.000	45.32	6.03	51.35	74.00	-22.65	peak	H
11060.000	49.42	6.03	55.45	74.00	-18.55	peak	V
11060.000	38.32	6.03	44.35	54.00	-9.65	AVG	V

Standard:	FCC Part 15E	Test Distance:	3m				
Test item:	Transmitter Radiated Emissions	Power:	AC 120V/60Hz				
Model Number:	EW-7429HOA	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH				
Test Mode:	Mode 5	Date:	03/25/2016				
Frequency:	5610MHZ	Test By:	Eric Ou Yang				
Internal Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
11220.000	45.41	6.17	51.58	74.00	-22.42	peak	H
11220.000	54.57	6.17	60.74	74.00	-13.26	peak	V
11220.000	44.90	6.17	51.07	54.00	-2.93	AVG	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Transmitter Radiated Emissions			Power:	AC 120V/60Hz		
Model Number:	EW-7429HOA			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 2			Date:	04/28/2016		
Frequency:	5260MHz			Test By:	Eric Ou Yang		
External Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
10520.000	46.58	5.64	52.22	68.20	-15.98	peak	H
10520.000	46.39	5.64	52.03	68.20	-16.17	peak	V

Standard:	FCC Part 15E		Test Distance:	3m			
Test item:	Transmitter Radiated Emissions		Power:	AC 120V/60Hz			
Model Number:	EW-7429HOA		Temp.(℃)/Hum.(%RH):	26(℃)/60%RH			
Test Mode:	Mode 2		Date:	04/28/2016			
Frequency:	5280MHz		Test By:	Eric Ou Yang			
External Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
10560.000	46.17	5.68	51.85	68.20	-16.35	peak	H
10560.000	45.49	5.68	51.17	68.20	-17.03	peak	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Transmitter Radiated Emissions			Power:	AC 120V/60Hz		
Model Number:	EW-7429HOA			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 2			Date:	04/28/2016		
Frequency:	5320MHz			Test By:	Eric Ou Yang		
External Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
10640.000	46.17	5.78	51.95	74.00	-22.05	peak	H
10640.000	45.34	5.78	51.12	74.00	-22.88	peak	V

Standard:	FCC Part 15E	Test Distance:	3m				
Test item:	Transmitter Radiated Emissions	Power:	AC 120V/60Hz				
Model Number:	EW-7429HOA	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH				
Test Mode:	Mode 2	Date:	04/28/2016				
Frequency:	5500MHz	Test By:	Eric Ou Yang				
External Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
11000.000	45.23	6.18	51.41	74.00	-22.59	peak	H
11000.000	45.73	6.18	51.91	74.00	-22.09	peak	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Transmitter Radiated Emissions			Power:	AC 120V/60Hz		
Model Number:	EW-7429HOA			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 2			Date:	04/28/2016		
Frequency:	5560MHz			Test By:	Eric Ou Yang		
External Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
11120.000	45.75	6.24	51.99	74.00	-22.01	peak	H
11120.000	44.92	6.24	51.16	74.00	-22.84	peak	V

Standard:	FCC Part 15E	Test Distance:	3m				
Test item:	Transmitter Radiated Emissions	Power:	AC 120V/60Hz				
Model Number:	EW-7429HOA	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH				
Test Mode:	Mode 2	Date:	04/28/2016				
Frequency:	5700MHz	Test By:	Eric Ou Yang				
External Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
11400.000	44.74	6.39	51.13	74.00	-22.87	peak	H
11400.000	45.46	6.39	51.85	74.00	-22.15	peak	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Transmitter Radiated Emissions			Power:	AC 120V/60Hz		
Model Number:	EW-7429HOA			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 3			Date:	04/28/2016		
Frequency:	5260MHz			Test By:	Eric Ou Yang		
External Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
10520.000	46.69	5.64	52.33	68.20	-15.87	peak	H
10520.000	47.74	5.64	53.38	68.20	-14.82	peak	V

Standard:	FCC Part 15E	Test Distance:	3m				
Test item:	Transmitter Radiated Emissions	Power:	AC 120V/60Hz				
Model Number:	EW-7429HOA	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH				
Test Mode:	Mode 3	Date:	04/28/2016				
Frequency:	5280MHz	Test By:	Eric Ou Yang				
External Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
10560.000	46.73	5.68	52.41	68.20	-15.79	peak	H
10560.000	46.80	5.68	52.48	68.20	-15.72	peak	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Transmitter Radiated Emissions			Power:	AC 120V/60Hz		
Model Number:	EW-7429HOA			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 3			Date:	04/28/2016		
Frequency:	5320MHz			Test By:	Eric Ou Yang		
External Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
10640.000	46.07	5.78	51.85	74.00	-22.15	peak	H
10640.000	45.41	5.78	51.19	74.00	-22.81	peak	V

Standard:	FCC Part 15E		Test Distance:	3m			
Test item:	Transmitter Radiated Emissions		Power:	AC 120V/60Hz			
Model Number:	EW-7429HOA		Temp.(℃)/Hum.(%RH):	26(℃)/60%RH			
Test Mode:	Mode 3		Date:	04/28/2016			
Frequency:	5500MHz		Test By:	Eric Ou Yang			
External Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
11000.000	45.11	6.18	51.29	74.00	-22.71	peak	H
11000.000	45.78	6.18	51.96	74.00	-22.04	peak	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Transmitter Radiated Emissions			Power:	AC 120V/60Hz		
Model Number:	EW-7429HOA			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 3			Date:	04/28/2016		
Frequency:	5560MHz			Test By:	Eric Ou Yang		
External Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
11120.000	45.41	6.24	51.65	74.00	-22.35	peak	H
11120.000	45.58	6.24	51.82	74.00	-22.18	peak	V

Standard:	FCC Part 15E	Test Distance:	3m				
Test item:	Transmitter Radiated Emissions	Power:	AC 120V/60Hz				
Model Number:	EW-7429HOA	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH				
Test Mode:	Mode 3	Date:	04/28/2016				
Frequency:	5700MHz	Test By:	Eric Ou Yang				
External Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
11400.000	45.21	6.39	51.60	74.00	-22.40	peak	H
11400.000	45.06	6.39	51.45	74.00	-22.55	peak	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E		Test Distance:	3m			
Test item:	Transmitter Radiated Emissions		Power:	AC 120V/60Hz			
Model Number:	EW-7429HOA		Temp.(°C)/Hum.(%RH):	26(°C)/60%RH			
Test Mode:	Mode 4		Date:	04/28/2016			
Frequency:	5270MHz		Test By:	Eric Ou Yang			
External Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
10540.000	46.08	5.66	51.74	68.20	-16.46	peak	H
10540.000	45.17	5.66	50.83	68.20	-17.37	peak	V

Standard:	FCC Part 15E		Test Distance:	3m			
Test item:	Transmitter Radiated Emissions		Power:	AC 120V/60Hz			
Model Number:	EW-7429HOA		Temp.(℃)/Hum.(%RH):	26(℃)/60%RH			
Test Mode:	Mode 4		Date:	04/28/2016			
Frequency:	5310MHz		Test By:	Eric Ou Yang			
External Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
10620.000	45.98	5.75	51.73	74.00	-22.27	peak	H
10620.000	46.15	5.75	51.90	74.00	-22.10	peak	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Transmitter Radiated Emissions			Power:	AC 120V/60Hz		
Model Number:	EW-7429HOA			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 4			Date:	04/28/2016		
Frequency:	5510MHz			Test By:	Eric Ou Yang		
External Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
11020.000	45.59	6.19	51.78	74.00	-22.22	peak	H
11020.000	44.87	6.19	51.06	74.00	-22.94	peak	V

Standard:	FCC Part 15E		Test Distance:	3m			
Test item:	Transmitter Radiated Emissions		Power:	AC 120V/60Hz			
Model Number:	EW-7429HOA		Temp.(℃)/Hum.(%RH):	26(℃)/60%RH			
Test Mode:	Mode 4		Date:	04/28/2016			
Frequency:	5550MHz		Test By:	Eric Ou Yang			
External Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
11100.000	45.48	6.23	51.71	74.00	-22.29	peak	H
11100.000	44.86	6.23	51.09	74.00	-22.91	peak	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Transmitter Radiated Emissions			Power:	AC 120V/60Hz		
Model Number:	EW-7429HOA			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 4			Date:	04/28/2016		
Frequency:	5670MHz			Test By:	Eric Ou Yang		
External Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
11100.000	45.20	6.23	51.43	74.00	-22.57	peak	H
11100.000	45.63	6.23	51.86	74.00	-22.14	peak	V

Standard:	FCC Part 15E	Test Distance:	3m				
Test item:	Transmitter Radiated Emissions	Power:	AC 120V/60Hz				
Model Number:	EW-7429HOA	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH				
Test Mode:	Mode 5	Date:	04/28/2016				
Frequency:	5290MHz	Test By:	Eric Ou Yang				
External Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
10580.000	46.54	5.70	52.24	68.20	-15.96	peak	H
10580.000	46.96	5.70	52.66	68.20	-15.54	peak	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E		Test Distance:	3m			
Test item:	Transmitter Radiated Emissions		Power:	AC 120V/60Hz			
Model Number:	EW-7429HOA		Temp.(°C)/Hum.(%RH):	26(°C)/60%RH			
Test Mode:	Mode 5		Date:	04/28/2016			
Frequency:	5530MHz		Test By:	Eric Ou Yang			
External Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
11060.000	45.71	6.21	51.92	74.00	-22.08	peak	H
11060.000	45.08	6.21	51.29	74.00	-22.71	peak	V

Standard:	FCC Part 15E		Test Distance:	3m			
Test item:	Transmitter Radiated Emissions		Power:	AC 120V/60Hz			
Model Number:	EW-7429HOA		Temp.(℃)/Hum.(%RH):	26(℃)/60%RH			
Test Mode:	Mode 5		Date:	04/28/2016			
Frequency:	5610MHz		Test By:	Eric Ou Yang			
External Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
11220.000	44.84	6.29	51.13	74.00	-22.87	peak	H
11220.000	45.40	6.29	51.69	74.00	-22.31	peak	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.

**Band Edge**

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Band Edge			Power:	AC 120V/60Hz		
Model Number:	EW-7429HOA			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 2			Date:	03/12/2016		
Frequency:	5260 MHz			Test By:	Eric Ou Yang		
Internal Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5116.360	46.76	8.21	54.97	74.00	-19.03	peak	H
5116.360	37.55	8.21	45.76	54.00	-8.24	AVG	H
5150.000	45.83	8.25	54.08	74.00	-19.92	peak	H
5150.000	37.86	8.25	46.11	54.00	-7.89	AVG	H
5141.440	47.32	8.24	55.56	74.00	-18.44	peak	V
5141.440	37.05	8.24	45.29	54.00	-8.71	AVG	V
5150.000	44.59	8.25	52.84	74.00	-21.16	peak	V
5150.000	37.11	8.25	45.36	54.00	-8.64	AVG	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Band Edge			Power:	AC 120V/60Hz		
Model Number:	EW-7429HOA			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 2			Date:	03/15/2016		
Frequency:	5280 MHz			Test By:	Eric Ou Yang		
Internal Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5150.000	46.31	8.25	54.56	74.00	-19.44	peak	H
5150.000	37.11	8.25	45.36	54.00	-8.64	AVG	H
5350.000	53.65	8.49	62.14	74.00	-11.86	peak	H
5350.000	44.09	8.49	52.58	54.00	-1.42	AVG	H
5150.000	46.51	8.25	54.76	74.00	-19.24	peak	V
5150.000	37.25	8.25	45.50	54.00	-8.50	AVG	V
5350.000	54.90	8.49	63.39	74.00	-10.61	peak	V
5350.000	44.49	8.49	52.98	54.00	-1.02	AVG	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Band Edge			Power:	AC 120V/60Hz		
Model Number:	EW-7429HOA			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 2			Date:	03/12/2016		
Frequency:	5320 MHz			Test By:	Eric Ou Yang		
Internal Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5350.000	53.34	8.49	61.83	74.00	-12.17	peak	H
5350.000	44.54	8.49	53.03	54.00	-0.97	AVG	H
5351.500	55.06	8.49	63.55	74.00	-10.45	peak	H
5351.500	43.32	8.49	51.81	54.00	-2.19	AVG	H
5350.000	55.77	8.49	64.26	74.00	-9.74	peak	V
5350.000	44.36	8.49	52.85	54.00	-1.15	AVG	V
5351.360	58.78	8.49	67.27	74.00	-6.73	peak	V
5351.360	43.06	8.49	51.55	54.00	-2.45	AVG	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Band Edge			Power:	AC 120V/60Hz		
Model Number:	EW-7429HOA			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 2			Date:	03/12/2016		
Frequency:	5500 MHz			Test By:	Eric Ou Yang		
Internal Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5459.350	53.52	8.62	62.14	74.00	-11.86	peak	H
5459.350	41.60	8.62	50.22	54.00	-3.78	AVG	H
5460.000	49.58	8.62	58.20	74.00	-15.80	peak	H
5460.000	42.46	8.62	51.08	54.00	-2.92	AVG	H
5470.000	58.75	8.62	67.37	78.20	-10.83	peak	H
5459.350	52.71	8.62	61.33	74.00	-12.67	peak	V
5459.350	42.06	8.62	50.68	54.00	-3.32	AVG	V
5460.000	53.60	8.62	62.22	74.00	-11.78	peak	V
5460.000	44.30	8.62	52.92	54.00	-1.08	AVG	V
5470.000	62.61	8.62	71.23	78.20	-6.97	peak	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Band Edge			Power:	AC 120V/60Hz		
Model Number:	EW-7429HOA			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 2			Date:	03/15/2016		
Frequency:	5560 MHz			Test By:	Eric Ou Yang		
Internal Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5405.200	51.57	8.55	60.12	74.00	-13.88	peak	H
5405.200	36.97	8.55	45.52	54.00	-8.48	AVG	H
5460.000	48.56	8.62	57.18	74.00	-16.82	peak	H
5460.000	36.58	8.62	45.20	54.00	-8.80	AVG	H
5470.000	47.24	8.62	55.86	74.00	-18.14	peak	H
5725.000	46.53	9.19	55.72	74.00	-18.28	peak	H
5725.000	37.02	9.19	46.21	54.00	-7.79	AVG	H
5386.800	49.80	8.53	58.33	74.00	-15.67	peak	V
5386.800	37.30	8.53	45.83	54.00	-8.17	AVG	V
5460.000	46.49	8.62	55.11	74.00	-18.89	peak	V
5460.000	37.26	8.62	45.88	54.00	-8.12	AVG	V
5470.000	45.58	8.62	54.20	74.00	-19.80	peak	V
5725.000	48.61	9.19	57.80	74.00	-16.20	peak	V
5725.000	37.58	9.19	46.77	54.00	-7.23	AVG	V
5733.600	46.91	9.21	56.12	74.00	-17.88	peak	V
5733.600	37.19	9.21	46.40	54.00	-7.60	AVG	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:		FCC Part 15E			Test Distance:		3m	
Test item:		Band Edge			Power:		AC 120V/60Hz	
Model Number:		EW-7429HOA			Temp.(°C)/Hum.(%RH):		26(°C)/60%RH	
Test Mode:		Mode 2			Date:		03/12/2016	
Frequency:		5700 MHz			Test By:		Eric Ou Yang	
Internal Antenna								
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V	
5725.000	47.88	9.19	57.07	74.00	-16.93	peak	H	
5725.000	37.22	9.19	46.41	54.00	-7.59	AVG	H	
5725.400	53.41	9.19	62.60	74.00	-11.40	peak	H	
5725.400	37.53	9.19	46.72	54.00	-7.28	AVG	H	
5725.000	59.81	9.19	69.00	74.00	-5.00	peak	V	
5725.000	43.73	9.19	52.92	54.00	-1.08	AVG	V	
5726.350	63.57	9.19	72.76	74.00	-1.24	peak	V	
5726.350	43.02	9.19	52.21	54.00	-1.79	AVG	V	

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Band Edge			Power:	AC 120V/60Hz		
Model Number:	EW-7429HOA			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 3			Date:	03/12/2016		
Frequency:	5260 MHz			Test By:	Eric Ou Yang		
Internal Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5133.840	51.27	8.23	59.50	74.00	-14.50	peak	H
5133.840	38.50	8.23	46.73	54.00	-7.27	AVG	H
5150.000	47.24	8.25	55.49	74.00	-18.51	peak	H
5150.000	39.01	8.25	47.26	54.00	-6.74	AVG	H
5134.600	47.32	8.23	55.55	74.00	-18.45	peak	V
5134.600	37.38	8.23	45.61	54.00	-8.39	AVG	V
5150.000	46.25	8.25	54.50	74.00	-19.50	peak	V
5150.000	37.42	8.25	45.67	54.00	-8.33	AVG	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Band Edge			Power:	AC 120V/60Hz		
Model Number:	EW-7429HOA			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 3			Date:	03/15/2016		
Frequency:	5280 MHz			Test By:	Eric Ou Yang		
Internal Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5068.320	48.24	8.15	56.39	74.00	-17.61	peak	H
5068.320	36.94	8.15	45.09	54.00	-8.91	AVG	H
5150.000	46.98	8.25	55.23	74.00	-18.77	peak	H
5150.000	36.77	8.25	45.02	54.00	-8.98	AVG	H
5350.000	51.00	8.49	59.49	74.00	-14.51	peak	H
5350.000	42.83	8.49	51.32	54.00	-2.68	AVG	H
5355.360	51.53	8.49	60.02	74.00	-13.98	peak	H
5355.360	40.11	8.49	48.60	54.00	-5.40	AVG	H
5081.760	50.21	8.16	58.37	74.00	-15.63	peak	V
5081.760	37.10	8.16	45.26	54.00	-8.74	AVG	V
5150.000	47.14	8.25	55.39	74.00	-18.61	peak	V
5150.000	36.93	8.25	45.18	54.00	-8.82	AVG	V
5350.000	60.88	8.49	69.37	74.00	-4.63	peak	V
5350.000	44.45	8.49	52.94	54.00	-1.06	AVG	V
5356.320	58.89	8.49	67.38	74.00	-6.62	peak	V
5356.320	42.72	8.49	51.21	54.00	-2.79	AVG	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Band Edge			Power:	AC 120V/60Hz		
Model Number:	EW-7429HOA			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 3			Date:	03/12/2016		
Frequency:	5320 MHz			Test By:	Eric Ou Yang		
Internal Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5350.000	55.81	8.49	64.30	74.00	-9.70	peak	H
5350.000	44.43	8.49	52.92	54.00	-1.08	AVG	H
5351.500	57.70	8.49	66.19	74.00	-7.81	peak	H
5351.500	42.17	8.49	50.66	54.00	-3.34	AVG	H
5350.000	56.43	8.49	64.92	74.00	-9.08	peak	V
5350.000	44.28	8.49	52.77	54.00	-1.23	AVG	V
5353.320	52.31	8.49	60.80	74.00	-13.20	peak	V
5353.320	42.10	8.49	50.59	54.00	-3.41	AVG	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Band Edge			Power:	AC 120V/60Hz		
Model Number:	EW-7429HOA			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 3			Date:	03/12/2016		
Frequency:	5500 MHz			Test By:	Eric Ou Yang		
Internal Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5458.750	54.18	8.62	62.80	74.00	-11.20	peak	H
5458.750	42.56	8.62	51.18	54.00	-2.82	AVG	H
5460.000	56.97	8.62	65.59	74.00	-8.41	peak	H
5460.000	44.42	8.62	53.04	54.00	-0.96	AVG	H
5470.000	60.58	8.62	69.20	78.20	-9.00	peak	H
5459.050	58.15	8.62	66.77	74.00	-7.23	peak	V
5459.050	42.21	8.62	50.83	54.00	-3.17	AVG	V
5460.000	51.37	8.62	59.99	74.00	-14.01	peak	V
5460.000	44.17	8.62	52.79	54.00	-1.21	AVG	V
5470.000	58.59	8.62	67.21	78.20	-10.99	peak	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Band Edge			Power:	AC 120V/60Hz		
Model Number:	EW-7429HOA			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 3			Date:	03/15/2016		
Frequency:	5560 MHz			Test By:	Eric Ou Yang		
Internal Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5454.000	52.11	8.61	60.72	74.00	-13.28	peak	H
5454.000	37.41	8.61	46.02	54.00	-7.98	AVG	H
5460.000	50.88	8.62	59.50	74.00	-14.50	peak	H
5460.000	37.28	8.62	45.90	54.00	-8.10	AVG	H
5470.000	50.75	8.62	59.37	74.00	-14.63	peak	H
5725.000	45.00	9.19	54.19	74.00	-19.81	peak	H
5725.000	37.22	9.19	46.41	54.00	-7.59	AVG	H
5732.800	47.16	9.21	56.37	74.00	-17.63	peak	H
5732.800	37.36	9.21	46.57	54.00	-7.43	AVG	H
5452.400	52.62	8.60	61.22	74.00	-12.78	peak	V
5452.400	37.51	8.60	46.11	54.00	-7.89	AVG	V
5460.000	47.85	8.62	56.47	74.00	-17.53	peak	V
5460.000	37.66	8.62	46.28	54.00	-7.72	AVG	V
5470.000	53.44	8.62	62.06	74.00	-11.94	peak	V
5725.000	48.41	9.19	57.60	74.00	-16.40	peak	V
5725.000	36.95	9.19	46.14	54.00	-7.86	AVG	V
5729.600	49.50	9.19	58.69	74.00	-15.31	peak	V
5729.600	37.12	9.19	46.31	54.00	-7.69	AVG	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Band Edge			Power:	AC 120V/60Hz		
Model Number:	EW-7429HOA			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 3			Date:	03/15/2016		
Frequency:	5700 MHz			Test By:	Eric Ou Yang		
Internal Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5725.000	47.90	9.19	57.09	74.00	-16.91	peak	H
5725.000	39.95	9.19	49.14	54.00	-4.86	AVG	H
5727.650	50.41	9.19	59.60	74.00	-14.40	peak	H
5727.650	37.91	9.19	47.10	54.00	-6.90	AVG	H
5725.000	56.81	9.19	66.00	74.00	-8.00	peak	V
5725.000	43.71	9.19	52.90	54.00	-1.10	AVG	V
5726.800	59.31	9.19	68.50	74.00	-5.50	peak	V
5726.800	41.26	9.19	50.45	54.00	-3.55	AVG	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:		FCC Part 15E			Test Distance:		3m	
Test item:		Band Edge			Power:		AC 120V/60Hz	
Model Number:		EW-7429HOA			Temp.(°C)/Hum.(%RH):		26(°C)/60%RH	
Test Mode:		Mode 4			Date:		03/12/2016	
Frequency:		5270 MHz			Test By:		Eric Ou Yang	
Internal Antenna								
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V	
5132.170	52.03	8.23	60.26	74.00	-13.74	peak	H	
5132.170	41.05	8.23	49.28	54.00	-4.72	AVG	H	
5150.000	53.49	8.25	61.74	74.00	-12.26	peak	H	
5150.000	43.88	8.25	52.13	54.00	-1.87	AVG	H	
5134.480	54.06	8.23	62.29	74.00	-11.71	peak	V	
5134.480	41.86	8.23	50.09	54.00	-3.91	AVG	V	
5150.000	55.27	8.25	63.52	74.00	-10.48	peak	V	
5150.000	44.63	8.25	52.88	54.00	-1.12	AVG	V	

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Band Edge			Power:	AC 120V/60Hz		
Model Number:	EW-7429HOA			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 4			Date:	03/12/2016		
Frequency:	5310 MHz			Test By:	Eric Ou Yang		
Internal Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5350.000	54.92	8.49	63.41	74.00	-10.59	peak	H
5350.000	44.28	8.49	52.77	54.00	-1.23	AVG	H
5351.640	56.99	8.49	65.48	74.00	-8.52	peak	H
5351.640	41.75	8.49	50.24	54.00	-3.76	AVG	H
5350.000	54.87	8.49	63.36	74.00	-10.64	peak	V
5350.000	44.33	8.49	52.82	54.00	-1.18	AVG	V
5351.220	58.15	8.49	66.64	74.00	-7.36	peak	V
5351.220	42.04	8.49	50.53	54.00	-3.47	AVG	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Band Edge			Power:	AC 120V/60Hz		
Model Number:	EW-7429HOA			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 4			Date:	03/12/2016		
Frequency:	5510 MHz			Test By:	Eric Ou Yang		
Internal Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5458.600	55.29	8.62	63.91	74.00	-10.09	peak	H
5458.600	42.48	8.62	51.10	54.00	-2.90	AVG	H
5460.000	53.05	8.62	61.67	74.00	-12.33	peak	H
5460.000	44.34	8.62	52.96	54.00	-1.04	AVG	H
5470.000	59.46	8.62	68.08	78.20	-10.12	peak	H
5458.300	52.38	8.61	60.99	74.00	-13.01	peak	V
5458.300	42.47	8.61	51.08	54.00	-2.92	AVG	V
5460.000	50.33	8.62	58.95	74.00	-15.05	peak	V
5460.000	44.16	8.62	52.78	54.00	-1.22	AVG	V
5470.000	61.97	8.62	70.59	78.20	-7.61	peak	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Band Edge			Power:	AC 120V/60Hz		
Model Number:	EW-7429HOA			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 4			Date:	03/15/2016		
Frequency:	5550 MHz			Test By:	Eric Ou Yang		
Internal Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5456.800	50.81	8.61	59.42	74.00	-14.58	peak	H
5456.800	41.34	8.61	49.95	54.00	-4.05	AVG	H
5460.000	50.59	8.62	59.21	74.00	-14.79	peak	H
5460.000	43.76	8.62	52.38	54.00	-1.62	AVG	H
5470.000	55.61	8.62	64.23	74.00	-9.77	peak	H
5725.000	45.16	9.19	54.35	74.00	-19.65	peak	H
5725.000	36.74	9.19	45.93	54.00	-8.07	AVG	H
5736.800	46.97	9.21	56.18	74.00	-17.82	peak	H
5736.800	36.88	9.21	46.09	54.00	-7.91	AVG	H
5456.800	59.57	8.61	68.18	74.00	-5.82	peak	V
5456.800	42.66	8.61	51.27	54.00	-2.73	AVG	V
5460.000	56.53	8.62	65.15	74.00	-8.85	peak	V
5460.000	44.29	8.62	52.91	54.00	-1.09	AVG	V
5470.000	65.19	8.62	73.81	74.00	-0.19	peak	V
5725.000	45.58	9.19	54.77	74.00	-19.23	peak	V
5725.000	36.25	9.19	45.44	54.00	-8.56	AVG	V
5731.600	46.58	9.19	55.77	74.00	-18.23	peak	V
5731.600	36.14	9.19	45.33	54.00	-8.67	AVG	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:		FCC Part 15E			Test Distance:		3m	
Test item:		Band Edge			Power:		AC 120V/60Hz	
Model Number:		EW-7429HOA			Temp.(°C)/Hum.(%RH):		26(°C)/60%RH	
Test Mode:		Mode 4			Date:		03/15/2016	
Frequency:		5670 MHz			Test By:		Eric Ou Yang	
Internal Antenna								
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V	
5725.000	46.77	9.19	55.96	74.00	-18.04	peak	H	
5725.000	37.19	9.19	46.38	54.00	-7.62	AVG	H	
5737.600	47.69	9.21	56.90	74.00	-17.10	peak	H	
5737.600	37.08	9.21	46.29	54.00	-7.71	AVG	H	
5725.000	50.23	9.19	59.42	74.00	-14.58	peak	V	
5725.000	43.70	9.19	52.89	54.00	-1.11	AVG	V	
5726.000	54.28	9.19	63.47	74.00	-10.53	peak	V	
5726.000	41.93	9.19	51.12	54.00	-2.88	AVG	V	

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Band Edge			Power:	AC 120V/60Hz		
Model Number:	EW-7429HOA			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 5			Date:	03/12/2016		
Frequency:	5290 MHz			Test By:	Eric Ou Yang		
Internal Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
4598.880	46.30	6.67	52.97	74.00	-21.03	peak	H
4598.880	39.05	6.67	45.72	54.00	-8.28	AVG	H
5150.000	41.18	8.25	49.43	74.00	-24.57	peak	H
5350.000	51.29	8.49	59.78	74.00	-14.22	peak	H
5350.000	44.33	8.49	52.82	54.00	-1.18	AVG	H
5355.360	51.38	8.49	59.87	74.00	-14.13	peak	H
5355.360	41.00	8.49	49.49	54.00	-4.51	AVG	H
4748.640	45.19	7.19	52.38	74.00	-21.62	peak	V
4748.640	38.40	7.19	45.59	54.00	-8.41	AVG	V
5150.000	42.15	8.25	50.40	74.00	-23.60	peak	V
5350.000	53.78	8.49	62.27	74.00	-11.73	peak	V
5350.000	44.40	8.49	52.89	54.00	-1.11	AVG	V
5358.240	51.83	8.49	60.32	74.00	-13.68	peak	V
5358.240	42.88	8.49	51.37	54.00	-2.63	AVG	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Band Edge			Power:	AC 120V/60Hz		
Model Number:	EW-7429HOA			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 5			Date:	03/12/2016		
Frequency:	5530 MHz			Test By:	Eric Ou Yang		
Internal Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5456.500	57.58	8.61	66.19	74.00	-7.81	peak	H
5456.500	42.65	8.61	51.26	54.00	-2.74	AVG	H
5460.000	54.12	8.62	62.74	74.00	-11.26	peak	H
5460.000	44.29	8.62	52.91	54.00	-1.09	AVG	H
5470.000	55.12	8.62	63.74	78.20	-14.46	peak	H
5459.200	55.39	8.62	64.01	74.00	-9.99	peak	V
5459.200	44.21	8.62	52.83	54.00	-1.17	AVG	V
5460.000	52.74	8.62	61.36	74.00	-12.64	peak	V
5460.000	44.17	8.62	52.79	54.00	-1.21	AVG	V
5470.000	56.79	8.62	65.41	78.20	-12.79	peak	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:		FCC Part 15E			Test Distance:		3m	
Test item:		Band Edge			Power:		AC 120V/60Hz	
Model Number:		EW-7429HOA			Temp.(°C)/Hum.(%RH):		26(°C)/60%RH	
Test Mode:		Mode 5			Date:		03/15/2016	
Frequency:		5610 MHz			Test By:		Eric Ou Yang	
Internal Antenna								
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V	
5440.000	47.99	8.59	56.58	74.00	-17.42	peak	H	
5440.000	37.16	8.59	45.75	54.00	-8.25	AVG	H	
5460.000	45.06	8.62	53.68	74.00	-20.32	peak	H	
5460.000	37.28	8.62	45.90	54.00	-8.10	AVG	H	
5470.000	47.12	8.62	55.74	74.00	-18.26	peak	H	
5725.000	45.19	9.19	54.38	74.00	-19.62	peak	H	
5725.000	37.55	9.19	46.74	54.00	-7.26	AVG	H	
5726.400	48.02	9.19	57.21	74.00	-16.79	peak	H	
5726.400	37.28	9.19	46.47	54.00	-7.53	AVG	H	
5425.200	48.49	8.58	57.07	74.00	-16.93	peak	V	
5425.200	36.87	8.58	45.45	54.00	-8.55	AVG	V	
5460.000	46.54	8.62	55.16	74.00	-18.84	peak	V	
5460.000	37.31	8.62	45.93	54.00	-8.07	AVG	V	
5470.000	46.93	8.62	55.55	74.00	-18.45	peak	V	
5725.000	50.99	9.19	60.18	74.00	-13.82	peak	V	
5725.000	43.76	9.19	52.95	54.00	-1.05	AVG	V	
5730.000	49.72	9.19	58.91	74.00	-15.09	peak	V	
5730.000	41.27	9.19	50.46	54.00	-3.54	AVG	V	

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E	Test Distance:	3m				
Test item:	Band Edge	Power:	AC 120V/60Hz				
Model Number:	EW-7429HOA	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH				
Test Mode:	Mode 2	Date:	04/27/2016				
Frequency:	5260 MHz	Test By:	Eric Ou Yang				
External Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
4959.040	45.66	7.97	53.63	74.00	-20.37	peak	H
4959.040	36.17	7.97	44.14	54.00	-9.86	AVG	H
5150.000	43.06	8.29	51.35	74.00	-22.65	peak	H
4621.600	46.62	6.80	53.42	74.00	-20.58	peak	V
4621.600	36.83	6.80	43.63	54.00	-10.37	AVG	V
5150.000	42.08	8.29	50.37	74.00	-23.63	peak	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Band Edge			Power:	AC 120V/60Hz		
Model Number:	EW-7429HOA			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 2			Date:	04/27/2016		
Frequency:	5280 MHz			Test By:	Eric Ou Yang		
External Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
4865.760	45.12	7.64	52.76	74.00	-21.24	peak	H
4865.760	36.12	7.64	43.76	54.00	-10.24	AVG	H
5150.000	41.68	8.29	49.97	74.00	-24.03	peak	H
5350.000	43.57	8.50	52.07	74.00	-21.93	peak	H
5350.000	35.63	8.50	44.13	54.00	-9.87	AVG	H
5354.400	44.54	8.51	53.05	74.00	-20.95	peak	H
5354.400	35.24	8.51	43.75	54.00	-10.25	AVG	H
5007.840	45.01	8.12	53.13	74.00	-20.87	peak	V
5007.840	35.89	8.12	44.01	54.00	-9.99	AVG	V
5150.000	41.90	8.29	50.19	74.00	-23.81	peak	V
5350.000	42.08	8.50	50.58	74.00	-23.42	peak	V
5424.480	44.15	8.58	52.73	74.00	-21.27	peak	V
5424.480	35.35	8.58	43.93	54.00	-10.07	AVG	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Band Edge			Power:	AC 120V/60Hz		
Model Number:	EW-7429HOA			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 2			Date:	04/27/2016		
Frequency:	5320 MHz			Test By:	Eric Ou Yang		
External Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5350.000	43.02	8.50	51.52	74.00	-22.48	peak	H
5404.560	45.86	8.56	54.42	74.00	-19.58	peak	H
5404.560	35.23	8.56	43.79	54.00	-10.21	AVG	H
5350.000	43.74	8.50	52.24	74.00	-21.76	peak	V
5350.000	35.65	8.50	44.15	54.00	-9.85	AVG	V
5443.480	44.75	8.61	53.36	74.00	-20.64	peak	V
5443.480	35.07	8.61	43.68	54.00	-10.32	AVG	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Band Edge			Power:	AC 120V/60Hz		
Model Number:	EW-7429HOA			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 2			Date:	04/27/2016		
Frequency:	5500 MHz			Test By:	Eric Ou Yang		
External Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5366.200	45.77	8.52	54.29	74.00	-19.71	peak	H
5366.200	35.12	8.52	43.64	54.00	-10.36	AVG	H
5460.000	43.96	8.62	52.58	74.00	-21.42	peak	H
5460.000	35.15	8.62	43.77	54.00	-10.23	AVG	H
5470.000	51.26	8.63	59.89	78.20	-18.31	peak	H
5415.550	45.33	8.57	53.90	74.00	-20.10	peak	V
5415.550	35.09	8.57	43.66	54.00	-10.34	AVG	V
5460.000	42.11	8.62	50.73	74.00	-23.27	peak	V
5470.000	44.26	8.63	52.89	78.20	-25.31	peak	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Band Edge			Power:	AC 120V/60Hz		
Model Number:	EW-7429HOA			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 2			Date:	04/27/2016		
Frequency:	5560 MHz			Test By:	Eric Ou Yang		
External Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5410.000	45.05	8.57	53.62	74.00	-20.38	peak	H
5410.000	35.18	8.57	43.75	54.00	-10.25	AVG	H
5460.000	42.31	8.62	50.93	74.00	-23.07	peak	H
5470.000	42.04	8.63	50.67	78.20	-27.53	peak	H
5725.000	42.62	9.19	51.81	74.00	-22.19	peak	H
5728.800	43.58	9.19	52.77	74.00	-21.23	peak	H
5728.800	34.84	9.19	44.03	54.00	-9.97	AVG	H
5400.000	45.10	8.56	53.66	74.00	-20.34	peak	V
5400.000	34.98	8.56	43.54	54.00	-10.46	AVG	V
5460.000	43.03	8.62	51.65	74.00	-22.35	peak	V
5470.000	42.69	8.63	51.32	78.20	-26.88	peak	V
5725.000	42.47	9.19	51.66	74.00	-22.34	peak	V
5742.800	43.10	9.22	52.32	74.00	-21.68	peak	V
5742.800	34.50	9.22	43.72	54.00	-10.28	AVG	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Band Edge			Power:	AC 120V/60Hz		
Model Number:	EW-7429HOA			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 2			Date:	04/27/2016		
Frequency:	5700 MHz			Test By:	Eric Ou Yang		
External Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5725.000	43.76	9.19	52.95	74.00	-21.05	peak	H
5725.000	34.69	9.19	43.88	54.00	-10.12	AVG	H
5731.800	45.21	9.19	54.40	74.00	-19.60	peak	H
5731.800	34.72	9.19	43.91	54.00	-10.09	AVG	H
5725.000	42.69	9.19	51.88	74.00	-22.12	peak	V
5744.450	45.00	9.23	54.23	74.00	-19.77	peak	V
5744.450	34.34	9.23	43.57	54.00	-10.43	AVG	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Band Edge			Power:	AC 120V/60Hz		
Model Number:	EW-7429HOA			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 3			Date:	04/27/2016		
Frequency:	5260 MHz			Test By:	Eric Ou Yang		
External Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
4759.920	45.96	7.27	53.23	74.00	-20.77	peak	H
4759.920	36.50	7.27	43.77	54.00	-10.23	AVG	H
5150.000	41.70	8.29	49.99	74.00	-24.01	peak	H
4788.800	45.64	7.38	53.02	74.00	-20.98	peak	V
4788.800	36.13	7.38	43.51	54.00	-10.49	AVG	V
5150.000	42.83	8.29	51.12	74.00	-22.88	peak	V
5150.000	37.42	8.25	45.67	54.00	-8.33	AVG	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Band Edge			Power:	AC 120V/60Hz		
Model Number:	EW-7429HOA			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 3			Date:	04/27/2016		
Frequency:	5280 MHz			Test By:	Eric Ou Yang		
External Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
4770.720	46.22	7.32	53.54	74.00	-20.46	peak	H
4770.720	36.76	7.32	44.08	54.00	-9.92	AVG	H
5150.000	42.48	8.29	50.77	74.00	-23.23	peak	H
5350.000	41.62	8.50	50.12	74.00	-23.88	peak	H
5453.280	43.33	8.61	51.94	74.00	-22.06	peak	H
4912.800	45.12	7.81	52.93	74.00	-21.07	peak	V
4912.800	35.87	7.81	43.68	54.00	-10.32	AVG	V
5150.000	42.11	8.29	50.40	74.00	-23.60	peak	V
5350.000	42.46	8.50	50.96	74.00	-23.04	peak	V
5379.360	43.21	8.54	51.75	74.00	-22.25	peak	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Band Edge			Power:	AC 120V/60Hz		
Model Number:	EW-7429HOA			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 3			Date:	04/27/2016		
Frequency:	5320 MHz			Test By:	Eric Ou Yang		
External Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5350.000	42.66	8.50	51.16	74.00	-22.84	peak	H
5383.140	44.80	8.54	53.34	74.00	-20.66	peak	H
5383.140	35.32	8.54	43.86	54.00	-10.14	AVG	H
5350.000	44.04	8.50	52.54	74.00	-21.46	peak	V
5350.000	35.43	8.50	43.93	54.00	-10.07	AVG	V
5357.240	44.80	8.51	53.31	74.00	-20.69	peak	V
5357.240	34.93	8.51	43.44	54.00	-10.56	AVG	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Band Edge			Power:	AC 120V/60Hz		
Model Number:	EW-7429HOA			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 3			Date:	04/27/2016		
Frequency:	5500 MHz			Test By:	Eric Ou Yang		
External Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5455.600	45.54	8.61	54.15	74.00	-19.85	peak	H
5455.600	35.18	8.61	43.79	54.00	-10.21	AVG	H
5460.000	42.14	8.62	50.76	74.00	-23.24	peak	H
5470.000	43.82	8.63	52.45	78.20	-25.75	peak	H
5436.850	45.27	8.59	53.86	74.00	-20.14	peak	V
5436.850	35.57	8.59	44.16	54.00	-9.84	AVG	V
5460.000	42.51	8.62	51.13	74.00	-22.87	peak	V
5470.000	42.90	8.63	51.53	78.20	-26.67	peak	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Band Edge			Power:	AC 120V/60Hz		
Model Number:	EW-7429HOA			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 3			Date:	04/27/2016		
Frequency:	5560 MHz			Test By:	Eric Ou Yang		
External Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5369.200	45.21	8.52	53.73	74.00	-20.27	peak	H
5369.200	35.49	8.52	44.01	54.00	-9.99	AVG	H
5460.000	42.97	8.62	51.59	74.00	-22.41	peak	H
5470.000	42.99	8.63	51.62	78.20	-26.58	peak	H
5725.000	41.97	9.19	51.16	74.00	-22.84	peak	H
5741.600	43.34	9.22	52.56	74.00	-21.44	peak	H
5741.600	34.56	9.22	43.78	54.00	-10.22	AVG	H
5395.200	44.46	8.55	53.01	74.00	-20.99	peak	V
5395.200	35.36	8.55	43.91	54.00	-10.09	AVG	V
5460.000	42.90	8.62	51.52	74.00	-22.48	peak	V
5470.000	44.09	8.63	52.72	78.20	-25.48	peak	V
5725.000	43.85	9.19	53.04	74.00	-20.96	peak	V
5725.000	34.87	9.19	44.06	54.00	-9.94	AVG	V
5730.400	43.61	9.19	52.80	74.00	-21.20	peak	V
5730.400	34.64	9.19	43.83	54.00	-10.17	AVG	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E		Test Distance:	3m			
Test item:	Band Edge		Power:	AC 120V/60Hz			
Model Number:	EW-7429HOA		Temp.(°C)/Hum.(%RH):	26(°C)/60%RH			
Test Mode:	Mode 3		Date:	04/27/2016			
Frequency:	5700 MHz		Test By:	Eric Ou Yang			
External Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5725.000	41.68	9.19	50.87	74.00	-23.13	peak	H
5747.300	45.42	9.24	54.66	74.00	-19.34	peak	H
5747.300	34.76	9.24	44.00	54.00	-10.00	AVG	H
5725.000	42.88	9.19	52.07	74.00	-21.93	peak	V
5725.000	34.94	9.19	44.13	54.00	-9.87	AVG	V
5746.450	44.70	9.24	53.94	74.00	-20.06	peak	V
5746.450	34.65	9.24	43.89	54.00	-10.11	AVG	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E		Test Distance:	3m			
Test item:	Band Edge		Power:	AC 120V/60Hz			
Model Number:	EW-7429HOA		Temp.(°C)/Hum.(%RH):	26(°C)/60%RH			
Test Mode:	Mode 4		Date:	04/27/2016			
Frequency:	5270 MHz		Test By:	Eric Ou Yang			
External Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
4710.210	45.55	7.10	52.65	74.00	-21.35	peak	H
4710.210	36.69	7.10	43.79	54.00	-10.21	AVG	H
5150.000	41.84	8.29	50.13	74.00	-23.87	peak	H
4979.710	45.65	8.06	53.71	74.00	-20.29	peak	V
4979.710	35.86	8.06	43.92	54.00	-10.08	AVG	V
5150.000	44.25	8.29	52.54	74.00	-21.46	peak	V
5150.000	35.92	8.29	44.21	54.00	-9.79	AVG	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Band Edge			Power:	AC 120V/60Hz		
Model Number:	EW-7429HOA			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 4			Date:	04/27/2016		
Frequency:	5310 MHz			Test By:	Eric Ou Yang		
External Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5350.000	42.31	8.50	50.81	74.00	-23.19	peak	H
5405.260	45.14	8.56	53.70	74.00	-20.30	peak	H
5405.260	35.49	8.56	44.05	54.00	-9.95	AVG	H
5350.000	43.68	8.50	52.18	74.00	-21.82	peak	V
5350.000	35.09	8.50	43.59	54.00	-10.41	AVG	V
5365.640	45.91	8.52	54.43	74.00	-19.57	peak	V
5365.640	35.09	8.52	43.61	54.00	-10.39	AVG	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Band Edge			Power:	AC 120V/60Hz		
Model Number:	EW-7429HOA			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 4			Date:	04/27/2016		
Frequency:	5510 MHz			Test By:	Eric Ou Yang		
External Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5417.650	45.36	8.57	53.93	74.00	-20.07	peak	H
5417.650	35.39	8.57	43.96	54.00	-10.04	AVG	H
5460.000	41.82	8.62	50.44	74.00	-23.56	peak	H
5470.000	42.92	8.63	51.55	78.20	-26.65	peak	H
5392.900	44.71	8.55	53.26	74.00	-20.74	peak	V
5392.900	35.47	8.55	44.02	54.00	-9.98	AVG	V
5460.000	42.34	8.62	50.96	74.00	-23.04	peak	V
5470.000	42.62	8.63	51.25	78.20	-26.95	peak	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Band Edge			Power:	AC 120V/60Hz		
Model Number:	EW-7429HOA			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 4			Date:	04/27/2016		
Frequency:	5550 MHz			Test By:	Eric Ou Yang		
External Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5428.800	45.52	8.59	54.11	74.00	-19.89	peak	H
5428.800	35.14	8.59	43.73	54.00	-10.27	AVG	H
5460.000	43.86	8.62	52.48	74.00	-21.52	peak	H
5460.000	35.28	8.62	43.90	54.00	-10.10	AVG	H
5470.000	41.71	8.63	50.34	78.20	-27.86	peak	H
5725.000	42.50	9.19	51.69	74.00	-22.31	peak	H
5738.800	43.83	9.21	53.04	74.00	-20.96	peak	H
5738.800	34.83	9.21	44.04	54.00	-9.96	AVG	H
5411.600	44.46	8.57	53.03	74.00	-20.97	peak	V
5411.600	35.53	8.57	44.10	54.00	-9.90	AVG	V
5460.000	42.46	8.62	51.08	74.00	-22.92	peak	V
5470.000	42.63	8.63	51.26	78.20	-26.94	peak	V
5725.000	42.95	9.19	52.14	74.00	-21.86	peak	V
5725.000	34.84	9.19	44.03	54.00	-9.97	AVG	V
5738.400	43.62	9.21	52.83	74.00	-21.17	peak	V
5738.400	34.55	9.21	43.76	54.00	-10.24	AVG	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Band Edge			Power:	AC 120V/60Hz		
Model Number:	EW-7429HOA			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 4			Date:	04/27/2016		
Frequency:	5670 MHz			Test By:	Eric Ou Yang		
External Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5725.000	41.75	9.19	50.94	74.00	-23.06	peak	H
5744.880	44.37	9.23	53.60	74.00	-20.40	peak	H
5744.880	34.41	9.23	43.64	54.00	-10.36	AVG	H
5725.000	40.94	9.19	50.13	74.00	-23.87	peak	V
5747.680	44.49	9.24	53.73	74.00	-20.27	peak	V
5747.680	34.91	9.24	44.15	54.00	-9.85	AVG	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Band Edge			Power:	AC 120V/60Hz		
Model Number:	EW-7429HOA			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 5			Date:	04/27/2016		
Frequency:	5290 MHz			Test By:	Eric Ou Yang		
External Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
4576.800	46.28	6.64	52.92	74.00	-21.08	peak	H
4576.800	37.24	6.64	43.88	54.00	-10.12	AVG	H
5150.000	41.59	8.29	49.88	74.00	-24.12	peak	H
5350.000	41.18	8.50	49.68	74.00	-24.32	peak	H
5383.200	43.61	8.54	52.15	74.00	-21.85	peak	H
5383.200	35.40	8.54	43.94	54.00	-10.06	AVG	H
4621.920	46.32	6.80	53.12	74.00	-20.88	peak	V
4621.920	37.15	6.80	43.95	54.00	-10.05	AVG	V
5150.000	42.18	8.29	50.47	74.00	-23.53	peak	V
5350.000	42.22	8.50	50.72	74.00	-23.28	peak	V
5376.480	43.72	8.54	52.26	74.00	-21.74	peak	V
5376.480	35.48	8.54	44.02	54.00	-9.98	AVG	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Band Edge			Power:	AC 120V/60Hz		
Model Number:	EW-7429HOA			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 5			Date:	04/27/2016		
Frequency:	5530 MHz			Test By:	Eric Ou Yang		
External Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5397.400	44.67	8.55	53.22	74.00	-20.78	peak	H
5397.400	35.19	8.55	43.74	54.00	-10.26	AVG	H
5460.000	42.69	8.62	51.31	74.00	-22.69	peak	H
5470.000	42.89	8.63	51.52	78.20	-26.68	peak	H
5391.550	45.23	8.54	53.77	74.00	-20.23	peak	V
5391.550	35.45	8.54	43.99	54.00	-10.01	AVG	V
5460.000	41.68	8.62	50.30	74.00	-23.70	peak	V
5470.000	42.52	8.63	51.15	78.20	-27.05	peak	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.



Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Band Edge			Power:	AC 120V/60Hz		
Model Number:	EW-7429HOA			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 5			Date:	04/27/2016		
Frequency:	5610 MHz			Test By:	Eric Ou Yang		
External Antenna							
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5445.600	45.44	8.61	54.05	74.00	-19.95	peak	H
5445.600	35.32	8.61	43.93	54.00	-10.07	AVG	H
5460.000	43.08	8.62	51.70	74.00	-22.30	peak	H
5470.000	41.82	8.63	50.45	78.20	-27.75	peak	H
5725.000	43.25	9.19	52.44	74.00	-21.56	peak	H
5725.000	34.56	9.19	43.75	54.00	-10.25	AVG	H
5747.200	43.40	9.24	52.64	74.00	-21.36	peak	H
5747.200	34.80	9.24	44.04	54.00	-9.96	AVG	H
5424.800	45.30	8.58	53.88	74.00	-20.12	peak	V
5424.800	35.40	8.58	43.98	54.00	-10.02	AVG	V
5460.000	41.11	8.62	49.73	74.00	-24.27	peak	V
5470.000	42.58	8.63	51.21	78.20	-26.99	peak	V
5725.000	42.30	9.19	51.49	74.00	-22.51	peak	V
5739.200	44.28	9.21	53.49	74.00	-20.51	peak	V
5739.200	34.65	9.21	43.86	54.00	-10.14	AVG	V

Note: 1. Result = Correction factor + Reading

2. Correction factor = Antenna Factor + Cable loss – Pre-Amplifier gain.

4.3. Maximum Conducted Output Power and Transmit power control Measurement

■ Limit

Conducted Output Power

Frequency Range (MHz)	FCC Limit
5.250 ~ 5.350 GHz	The lesser of 250mW (24dBm) or 11dBm + 10log (B)
5.470 ~ 5.725 GHz	The lesser of 250mW (24dBm) or 11dBm + 10log (B)

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

According FCC KDB 662911 D01 v02r01 – for power measurements on IEEE802.11 devices,

Directional gain = GANT + 10 log(NANT/NSS) dBi

Internal Antenna:

* SISO mode for ANT-0 : Max. Gain = 13.90 dBi > 6 dBi.

SISO mode for ANT-0 power limit shall be reduced = 24 – 7.9 = 16.10 dBm.

* MIMO mode : Directional Gain = 13.90 + 10*log (2 / 1) = 16.91 dBi > 6dBi

MIMO mode power limit shall be reduced = 24 - 10.91 = 13.09 dBm

External Antenna:

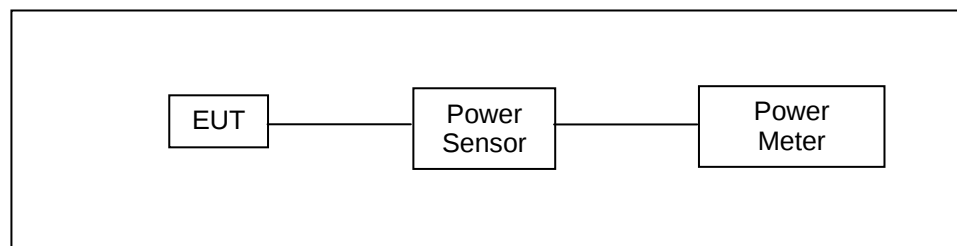
* SISO mode for ANT-0 : Max. Gain = 12.90 dBi > 6 dBi.

SISO mode for ANT-0 power limit shall be reduced = 24 – 6.9 = 17.10 dBm.

* MIMO mode : Directional Gain = 12.90 + 10*log (2 / 1) = 15.91 dBi > 6dBi

MIMO mode power limit = 24 - 9.91 = 14.09 dBm

■ Test Setup



■ Test Instruments

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Power Sensor	Anritsu	MA2411B	1126022	08/24/2015	1 year
Power Meter	Anritsu	ML2495A	1135009	08/24/2015	1 year
Test Site	ATL	TE05	TE05	N.C.R.	-----

Note: N.C.R. = No Calibration Request.



■ **Test Procedure**

The test is performed in accordance with KDB789033: D02 General UNII Test Procedures New Rules v01r02, Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices

Section (E) Maximum Conducted Output Power

3. Measurement using a Power Meter (PM)

b) Method PM-G (Measurement using a gated RF average power meter)



Test Result

Model Number		EW-7429HOA		
Test Item		Maximum Conducted Output Power		
Test Mode		Mode 2: IEEE 802.11a Link Mode		
Date of Test		02/26/2016		
Frequency (MHz)	Data Rate	ANT-0		FCC Limit (dBm)
		(dBm)	(W)	
5260.0	6M	14.07	0.026	≤ 16.10
5280.0		14.31	0.027	
5300.0		14.46	0.028	
5320.0		11.63	0.015	
5500.0		10.29	0.011	≤ 16.10
5520.0		10.59	0.011	
5540.0		11.16	0.013	
5560.0		10.73	0.012	
5580.0		10.80	0.012	
5600.0		10.78	0.012	
5620.0		10.67	0.012	
5640.0		10.62	0.012	
5660.0		10.79	0.012	
5680.0		10.90	0.012	
5700.0		7.86	0.006	
5260.0	54M	14.02	0.025	≤ 16.10
5280.0		14.29	0.027	
5300.0		14.41	0.028	
5320.0		11.58	0.014	
5500.0		10.26	0.011	≤ 16.10
5520.0		10.53	0.011	
5540.0		11.10	0.013	
5560.0		10.70	0.012	
5580.0		10.74	0.012	
5600.0		10.75	0.012	
5620.0		10.62	0.012	
5640.0		10.58	0.011	
5660.0		10.73	0.012	
5680.0		10.88	0.012	
5700.0		7.82	0.006	



Model Number		EW-7429HOA						
Test Item		Maximum Conducted Output Power						
Test Mode		Mode 3: IEEE 802.11ac 20MHz link mode						
Date of Test		02/26/2016						
Frequency (MHz)	Data Rate	ANT-0		ANT-1		ANT-0+1		FCC Limit (dBm)
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	
5260.0	13M	8.58	0.007	8.79	0.008	11.70	0.015	≤ 13.09
5280.0		8.42	0.007	8.68	0.007	11.56	0.014	
5300.0		8.52	0.007	8.54	0.007	11.54	0.014	
5320.0		8.68	0.007	8.86	0.008	11.78	0.015	
5500.0		8.96	0.008	9.26	0.008	12.12	0.016	≤ 13.09
5520.0		8.65	0.007	8.86	0.008	11.77	0.015	
5540.0		8.64	0.007	9.09	0.008	11.88	0.015	
5560.0		8.73	0.007	9.05	0.008	11.90	0.015	
5580.0		8.90	0.008	9.07	0.008	12.00	0.016	
5600.0		8.96	0.008	9.04	0.008	12.01	0.016	
5620.0		8.68	0.007	8.77	0.008	11.74	0.015	
5640.0		8.65	0.007	8.61	0.007	11.64	0.015	
5660.0		8.73	0.007	8.66	0.007	11.71	0.015	
5680.0		8.69	0.007	8.69	0.007	11.70	0.015	
5700.0		8.44	0.007	8.67	0.007	11.57	0.014	
5260.0	156M	8.58	0.007	8.79	0.008	11.70	0.015	≤ 13.09
5280.0		8.42	0.007	8.68	0.007	11.56	0.014	
5300.0		8.52	0.007	8.54	0.007	11.54	0.014	
5320.0		8.68	0.007	8.86	0.008	11.78	0.015	
5500.0		8.96	0.008	9.26	0.008	12.12	0.016	≤ 13.09
5520.0		8.65	0.007	8.86	0.008	11.77	0.015	
5540.0		8.64	0.007	9.09	0.008	11.88	0.015	
5560.0		8.73	0.007	9.05	0.008	11.90	0.015	
5580.0		8.90	0.008	9.07	0.008	12.00	0.016	
5600.0		8.96	0.008	9.04	0.008	12.01	0.016	
5620.0		8.68	0.007	8.77	0.008	11.74	0.015	
5640.0		8.65	0.007	8.61	0.007	11.64	0.015	
5660.0		8.73	0.007	8.66	0.007	11.71	0.015	
5680.0		8.69	0.007	8.69	0.007	11.70	0.015	
5700.0		8.44	0.007	8.67	0.007	11.57	0.014	



Model Number		EW-7429HOA						
Test Item		Maximum Conducted Output Power						
Test Mode		Mode 4: IEEE 802.11ac 40MHz link mode						
Date of Test		02/26/2016						
Frequency (MHz)	Data Rate	ANT-0		ANT-1		ANT-0+1		FCC Limit (dBm)
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	
5270.0	27M	9.07	0.008	9.38	0.009	12.24	0.017	≤ 13.09
5310.0		9.00	0.008	9.19	0.008	12.11	0.016	
5510.0		8.95	0.008	9.44	0.009	12.21	0.017	≤ 13.09
5550.0		8.66	0.007	9.45	0.009	12.08	0.016	
5590.0		8.89	0.008	9.28	0.008	12.10	0.016	
5630.0		8.83	0.008	9.62	0.009	12.25	0.017	
5670.0		8.88	0.008	9.58	0.009	12.25	0.017	
5270.0	360M	9.01	0.008	9.35	0.009	12.19	0.017	≤ 13.09
5310.0		8.98	0.008	9.18	0.008	12.09	0.016	
5510.0		8.89	0.008	9.40	0.009	12.16	0.016	≤ 13.09
5550.0		8.63	0.007	9.40	0.009	12.04	0.016	
5590.0		8.85	0.008	9.23	0.008	12.05	0.016	
5630.0		8.79	0.008	9.59	0.009	12.22	0.017	
5670.0		8.82	0.008	9.54	0.009	12.21	0.017	

Model Number		EW-7429HOA						
Test Item		Maximum Conducted Output Power						
Test Mode		Mode 5: IEEE 802.11ac 80MHz Link Mode						
Date of Test		02/26/2016						
Frequency (MHz)	Data Rate	ANT-0		ANT-1		ANT-0+1		FCC Limit (dBm)
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	
5290.0	58.6M	9.21	0.008	9.65	0.009	12.45	0.018	≤ 13.09
5530.0		9.27	0.008	9.83	0.010	12.57	0.018	≤ 13.09
5610.0		8.93	0.008	10.12	0.010	12.58	0.018	
5290.0	780M	9.19	0.008	9.61	0.009	12.42	0.017	≤ 13.09
5530.0		9.24	0.008	9.81	0.010	12.54	0.018	≤ 13.09
5610.0		8.91	0.008	10.11	0.010	12.56	0.018	



Model Number		EW-7429HOA				
Test Item		Transmit power control				
Test Mode		Mode 2: IEEE 802.11a Link Mode				
Date of Test		02/26/2016				
Frequency (MHz)	Data Rate	ANT-0				FCC Limit (dBm)
		Max. Outup Power	Directional Gain	E.I.R.P.		
		(dBm)	(dBi)	(dBm)	(W)	
5260.0	6M	8.27	13.90	22.17	0.165	≤ 24
5280.0		8.41	13.90	22.31	0.170	
5300.0		8.75	13.90	22.65	0.184	
5320.0		5.78	13.90	19.68	0.093	
5500.0		4.49	13.90	18.39	0.069	
5520.0		4.83	13.90	18.73	0.075	
5540.0		5.43	13.90	19.33	0.086	
5560.0		4.98	13.90	18.88	0.077	
5580.0		5.02	13.90	18.92	0.078	
5600.0		4.99	13.90	18.89	0.077	
5620.0		4.78	13.90	18.68	0.074	
5640.0		4.75	13.90	18.65	0.073	
5660.0		5.09	13.90	18.99	0.079	
5680.0		5.04	13.90	18.94	0.078	
5700.0		2.06	13.90	15.96	0.039	
5260.0	54M	8.25	13.90	22.15	0.164	≤ 24
5280.0		8.36	13.90	22.26	0.168	
5300.0		8.73	13.90	22.63	0.183	
5320.0		5.76	13.90	19.66	0.092	
5500.0		4.48	13.90	18.38	0.069	
5520.0		4.77	13.90	18.67	0.074	
5540.0		5.38	13.90	19.28	0.085	
5560.0		4.92	13.90	18.82	0.076	
5580.0		4.98	13.90	18.88	0.077	
5600.0		4.98	13.90	18.88	0.077	
5620.0		4.74	13.90	18.64	0.073	
5640.0		4.72	13.90	18.62	0.073	
5660.0		5.08	13.90	18.98	0.079	
5680.0		5.01	13.90	18.91	0.078	
5700.0		2.00	13.90	15.90	0.039	

Note: EIRP(dBm)=Conducted power(dBm) + Directional Gain (dBi)



Model Number		EW-7429HOA				
Test Item		Transmit power control				
Test Mode		Mode 3: IEEE 802.11ac 20MHz Link Mode				
Date of Test		02/26/2016				
Frequency (MHz)	Data Rate	ANT-0+1				FCC Limit (dBm)
		Max. Outup Power	Directional Gain	E.I.R.P.		
		(dBm)	(dBi)	(dBm)	(W)	
5260.0	13M	6.01	16.91	22.92	0.196	≤ 24
5280.0		5.86	16.91	22.77	0.189	
5300.0		5.83	16.91	22.74	0.188	
5320.0		5.98	16.91	22.89	0.194	
5500.0		6.40	16.91	23.31	0.214	
5520.0		6.09	16.91	23.00	0.199	
5540.0		6.07	16.91	22.98	0.199	
5560.0		6.20	16.91	23.11	0.205	
5580.0		6.30	16.91	23.21	0.210	
5600.0		6.23	16.91	23.14	0.206	
5620.0		5.95	16.91	22.86	0.193	
5640.0		5.90	16.91	22.81	0.191	
5660.0		5.97	16.91	22.88	0.194	
5680.0		5.94	16.91	22.85	0.193	
5700.0		5.85	16.91	22.76	0.189	
5260.0	156M	5.92	16.91	22.83	0.192	≤ 24
5280.0		5.81	16.91	22.72	0.187	
5300.0		5.73	16.91	22.64	0.183	
5320.0		5.86	16.91	22.77	0.189	
5500.0		6.32	16.91	23.23	0.210	
5520.0		6.04	16.91	22.95	0.197	
5540.0		6.03	16.91	22.94	0.197	
5560.0		6.08	16.91	22.99	0.199	
5580.0		6.25	16.91	23.16	0.207	
5600.0		6.13	16.91	23.04	0.201	
5620.0		5.88	16.91	22.79	0.190	
5640.0		5.79	16.91	22.70	0.186	
5660.0		5.87	16.91	22.78	0.190	
5680.0		5.84	16.91	22.75	0.188	
5700.0		5.77	16.91	22.68	0.185	

Note: EIRP(dBm)=Conducted power(dBm) + Directional Gain (dBi)



Model Number		EW-7429HOA				
Test Item		Transmit power control				
Test Mode		Mode 4: IEEE 802.11ac 40MHz Link Mode				
Date of Test		02/26/2016				
Frequency (MHz)	Data Rate	ANT-0+1				FCC Limit (dBm)
		Max. Outup Power	Directional Gain	E.I.R.P.		
		(dBm)	(dBi)	(dBm)	(W)	
5270.0	27M	6.39	16.91	23.30	0.214	≤24
5310.0		6.28	16.91	23.19	0.208	
5510.0		6.40	16.91	23.31	0.214	
5550.0		6.27	16.91	23.18	0.208	
5590.0		6.23	16.91	23.14	0.206	
5630.0		6.37	16.91	23.28	0.213	
5670.0		6.43	16.91	23.34	0.216	
5270.0	360M	6.31	16.91	23.22	0.210	≤24
5310.0		6.20	16.91	23.11	0.205	
5510.0		6.27	16.91	23.18	0.208	
5550.0		6.19	16.91	23.10	0.204	
5590.0		6.14	16.91	23.05	0.202	
5630.0		6.33	16.91	23.24	0.211	
5670.0		6.38	16.91	23.29	0.213	

Model Number		EW-7429HOA				
Test Item		Transmit power control				
Test Mode		Mode 5: IEEE 802.11ac 80MHz Link Mode				
Date of Test		02/26/2016				
Frequency (MHz)	Data Rate	ANT-0+1				FCC Limit (dBm)
		Max. Outup Power	Directional Gain	E.I.R.P.		
		(dBm)	(dBi)	(dBm)	(W)	
5290.0	58.6M	6.74	16.91	23.65	0.232	≤ 24
5530.0		6.83	16.91	23.74	0.237	
5610.0		6.85	16.91	23.76	0.238	
5290.0	780M	6.71	16.91	23.62	0.230	≤ 24
5530.0		6.70	16.91	23.61	0.230	
5610.0		6.81	16.91	23.72	0.235	

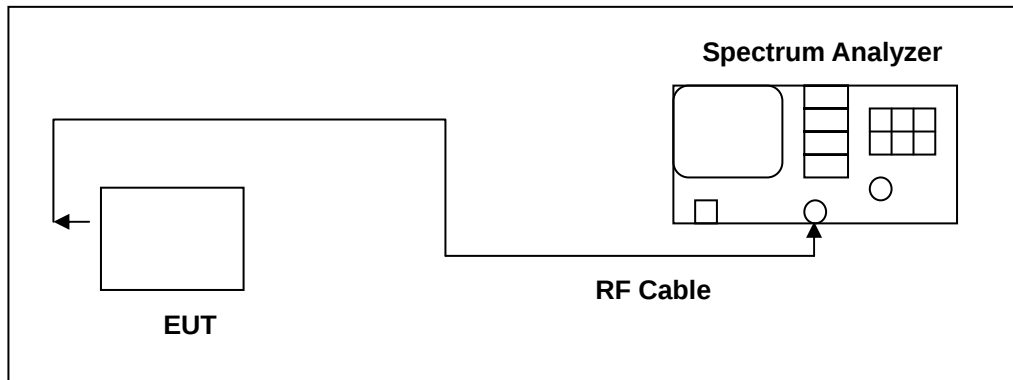
Note: EIRP(dBm)=Conducted power(dBm) + Directional Gain (dBi)

4.4. 26dB RF Bandwidth Measurement

■ Limit

N/A

■ Test Setup



■ Test Instruments

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Spectrum Analyzer	Agilent	E4445A	MY45300744	12/15/2015	1 year
Test Site	ATL	TE05	TE05	N.C.R.	-----

Note: N.C.R. = No Calibration Request.

■ Test Procedure

The test is performed in accordance with KDB789033: D02 General UNII Test Procedures New Rules v01r02, Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - Part 15, Subpart E.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	>26dB Bandwidth
RBW	Approximately 1% of the emission bandwidth
VBW	VBW > RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto



■ Test Result

Model Number	EW-7429HOA	
Test Item	26dB RF Bandwidth	
Test Mode	Mode 2: IEEE 802.11a Link Mode	
Date of Test	03/22/2016	
Frequency (MHz)	26dB Bandwidth (MHz)	
	ANT-0	
5260.0	21.660	
5280.0	21.540	
5320.0	21.510	
5500.0	21.840	
5560.0	22.140	
5700.0	21.810	

Model Number	EW-7429HOA	
Test Item	26dB RF Bandwidth	
Test Mode	Mode 3: IEEE 802.11ac 20MHz link mode	
Date of Test	03/19/2016	
Frequency (MHz)	26dB Bandwidth (MHz)	
	ANT-0	ANT-1
5260.0	23.130	23.080
5280.0	22.980	22.550
5320.0	23.740	23.560
5500.0	24.050	23.100
5560.0	23.060	22.930
5700.0	22.820	23.580



Model Number	EW-7429HOA	
Test Item	26dB RF Bandwidth	
Test Mode	Mode 4: IEEE 802.11ac 40MHz link mode	
Date of Test	03/19/2016	
Frequency (MHz)	26dB Bandwidth (MHz)	
	ANT-0	ANT-1
5270.0	46.970	46.870
5310.0	46.550	44.980
5510.0	45.500	44.930
5550.0	46.990	44.220
5670.0	46.740	45.150

Model Number	EW-7429HOA	
Test Item	26dB RF Bandwidth	
Test Mode	Mode 5: IEEE 802.11ac 80MHz Link Mode	
Date of Test	03/19/2016	
Frequency (MHz)	26dB Bandwidth (MHz)	
	ANT-0	ANT-1
5290.0	87.200	87.010
5530.0	89.370	87.730
5610.0	88.370	86.110

Test Graphs

Mode 2: IEEE 802.11a Link Mode_ANT-0

5260



5280



5320



Mode 2: IEEE 802.11a Link Mode_ANT-0	
5500	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.500000000 GHz Center Freq: 5.500000000 GHz Radio Std: None Trig: Free Run AvgHold: >10/10 Radio Device: BTS Ref 10.00 dBm Center 5.5 GHz Span 25 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 1 ms Occupied Bandwidth 16.796 MHz Total Power 22.2 dBm Transmit Freq Error -24.514 kHz OBW Power 99.00 % x dB Bandwidth 21.84 MHz x dB -26.00 dB
5560	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.560000000 GHz Center Freq: 5.560000000 GHz Radio Std: None Trig: Free Run AvgHold: >10/10 Radio Device: BTS Ref 10.00 dBm Center 5.56 GHz Span 25 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 1 ms Occupied Bandwidth 16.696 MHz Total Power 20.8 dBm Transmit Freq Error -18.086 kHz OBW Power 99.00 % x dB Bandwidth 22.14 MHz x dB -26.00 dB
5700	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.700000000 GHz Center Freq: 5.700000000 GHz Radio Std: None Trig: Free Run AvgHold: >10/10 Radio Device: BTS Ref 10.00 dBm Center 5.7 GHz Span 25 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 1 ms Occupied Bandwidth 16.700 MHz Total Power 21.0 dBm Transmit Freq Error -16.785 kHz OBW Power 99.00 % x dB Bandwidth 21.81 MHz x dB -26.00 dB



Mode 3: IEEE 802.11ac 20MHz link mode_ANT-0

5260

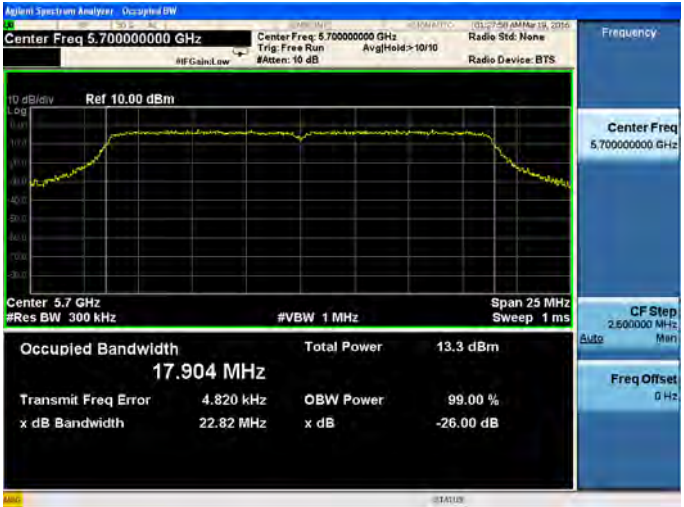


5280



5320



Mode 3: IEEE 802.11ac 20MHz link mode_ANT-0	
5500	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.500000000 GHz Center Freq: 5.500000000 GHz Radio Std: None Trig: Free Run AvgHold: >10/10 #F Gain: Low #Assen: 10 dB Radio Device: BTS 10 dB/div Ref 10.00 dBm Center 5.5 GHz Span 25 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 1 ms Occupied Bandwidth 17.892 MHz Total Power 13.1 dBm Transmit Freq Error 7.897 kHz OBW Power 99.00 % x dB Bandwidth 24.05 MHz x dB -26.00 dB Frequency Center Freq 5.500000000 GHz CF Step 2.500000 MHz Man Freq Offset 0 Hz
5560	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.560000000 GHz Center Freq: 5.560000000 GHz Radio Std: None Trig: Free Run AvgHold: >10/10 #F Gain: Low #Assen: 10 dB Radio Device: BTS 10 dB/div Ref 10.00 dBm Center 5.56 GHz Span 25 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 1 ms Occupied Bandwidth 17.886 MHz Total Power 12.6 dBm Transmit Freq Error 4.798 kHz OBW Power 99.00 % x dB Bandwidth 23.06 MHz x dB -26.00 dB Frequency Center Freq 5.560000000 GHz CF Step 2.500000 MHz Man Freq Offset 0 Hz
5700	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.700000000 GHz Center Freq: 5.700000000 GHz Radio Std: None Trig: Free Run AvgHold: >10/10 #F Gain: Low #Assen: 10 dB Radio Device: BTS 10 dB/div Ref 10.00 dBm Center 5.7 GHz Span 25 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 1 ms Occupied Bandwidth 17.904 MHz Total Power 13.3 dBm Transmit Freq Error 4.820 kHz OBW Power 99.00 % x dB Bandwidth 22.82 MHz x dB -26.00 dB Frequency Center Freq 5.700000000 GHz CF Step 2.500000 MHz Man Freq Offset 0 Hz



Mode 4: IEEE 802.11ac 40MHz link mode_ANT-0

5270



5310





Mode 4: IEEE 802.11ac 40MHz link mode_ANT-0

5510



5550



5670



Mode 5: IEEE 802.11ac 80MHz Link Mode_ANT-0	
5290	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.290000000 GHz Center Freq: 5.290000000 GHz Trig: Free Run Avg/Hold: >10/10 Radio Std: None Radio Device: BTS Ref 10.00 dBm Center 5.29 GHz #Res BW 1 MHz #VBW 3 MHz Span 100 MHz Sweep 1 ms Occupied Bandwidth 75.836 MHz Total Power 15.9 dBm Transmit Freq Error 203.20 kHz OBW Power 99.00 % x dB Bandwidth 87.20 MHz x dB -26.00 dB Frequency Center Freq 5.290000000 GHz CF Step 10.000000 MHz Freq Offset 0 Hz
5530	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.530000000 GHz Center Freq: 5.530000000 GHz Trig: Free Run Avg/Hold: >10/10 Radio Std: None Radio Device: BTS Ref 10.00 dBm Center 5.53 GHz #Res BW 1 MHz #VBW 3 MHz Span 100 MHz Sweep 1 ms Occupied Bandwidth 75.835 MHz Total Power 14.7 dBm Transmit Freq Error -43.275 kHz OBW Power 99.00 % x dB Bandwidth 89.37 MHz x dB -26.00 dB Frequency Center Freq 5.530000000 GHz CF Step 10.000000 MHz Freq Offset 0 Hz
5610	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.610000000 GHz Center Freq: 5.610000000 GHz Trig: Free Run Avg/Hold: >10/10 Radio Std: None Radio Device: BTS Ref 10.00 dBm Center 5.61 GHz #Res BW 1 MHz #VBW 3 MHz Span 100 MHz Sweep 1 ms Occupied Bandwidth 75.923 MHz Total Power 14.4 dBm Transmit Freq Error 31.676 kHz OBW Power 99.00 % x dB Bandwidth 88.37 MHz x dB -26.00 dB Frequency Center Freq 5.610000000 GHz CF Step 10.000000 MHz Freq Offset 0 Hz



Mode 3: IEEE 802.11ac 20MHz link mode_ANT-1

5260



5280



5320





Mode 3: IEEE 802.11ac 20MHz link mode_ANT-1

5500



5560



5700





Mode 4: IEEE 802.11ac 40MHz link mode_ANT-1

5270



5310





Mode 4: IEEE 802.11ac 40MHz link mode_ANT-1

5510



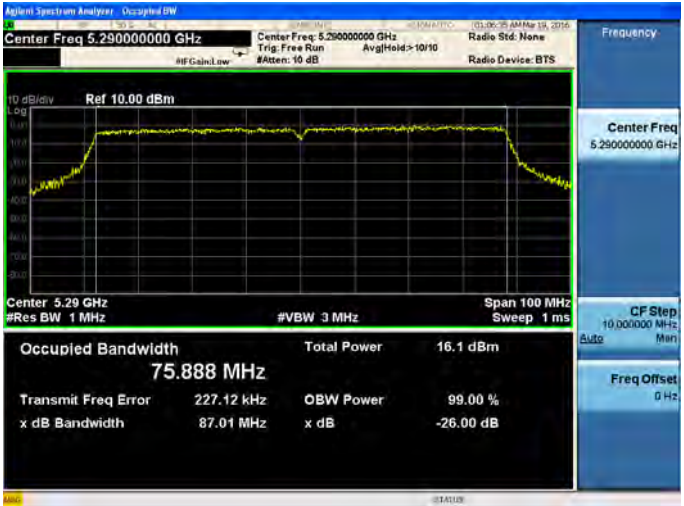
5550



5670





Mode 5: IEEE 802.11ac 80MHz Link Mode_ANT-1	
5290	
5530	
5610	

4.5. Peak Power Spectral Density Measurement

■ Limit

Conducted power spectral density

Frequency Range	FCC Limit
5.250 ~ 5.350 GHz	11 dBm/MHz
5.470 ~ 5.725 GHz	11 dBm/MHz

According FCC KDB 662911 D01 v02r01 – for power measurements on IEEE802.11 devices,

Directional gain = GANT + 10 log(NANT/NSS) dBi

Internal Antenna:

* SISO mode for ANT-0 : Max. Gain = 13.90 dBi > 6 dBi.

SISO mode for ANT-0 power limit shall be reduced = $11 - 7.9 = 3.10$ dBm/MHz.

* MIMO mode : Directional Gain = $13.90 + 10 \cdot \log(2 / 1) = 16.91$ dBi > 6dBi

MIMO mode power limit shall be reduced = $11 - 10.91 = 0.09$ dBm/MHz

External Antenna:

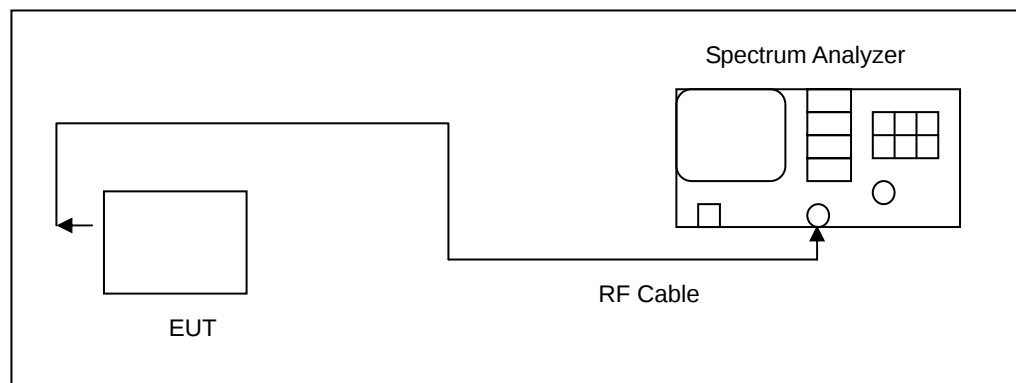
* SISO mode for ANT-0 : Max. Gain = 12.90 dBi > 6 dBi.

SISO mode for ANT-0 power limit shall be reduced = $11 - 6.9 = 4.10$ dBm/MHz.

* MIMO mode : Directional Gain = $12.90 + 10 \cdot \log(2 / 1) = 15.91$ dBi > 6dBi

MIMO mode power limit = $11 - 9.91 = 1.09$ dBm/MHz

■ Test Setup



■ Test Instruments

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Spectrum Analyzer	Agilent	E4445A	MY45300744	12/15/2015	1 year
Test Site	ATL	TE05	TE05	N.C.R.	-----

Note: N.C.R. = No Calibration Request.



■ Test Procedure

The test is performed in accordance with KDB789033: D02 General UNII Test Procedures New Rules v01r02, Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - Part 15, Subpart E.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	1 MHz (5725 ~ 5850MHz use 100 kHz)
VBW	3 MHz (5725 ~ 5850MHz use 300 kHz)
Detector	RMS
Trace	AVERAGE
Sweep Time	Auto
Trace Average	100 times
Note: If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/100\text{kHz})$ to the measured result.	

■ Test Result

Model Number	EW-7429HOA			
Test Item	Conducted power spectral density			
Test Mode	Mode 2: IEEE 802.11a Link Mode			
Date of Test	03/22/2016			
Frequency (MHz)	ANT-0			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5260.0	2.463	0.079	2.542	≤ 3.10
5280.0	2.322	0.079	2.401	
5320.0	2.460	0.079	2.539	
5500.0	2.715	0.079	2.794	≤ 3.10
5560.0	2.618	0.079	2.697	
5700.0	2.698	0.079	2.777	

Note: Method SA-2, Power density = measured result + $10\log(1/\text{duty cycle})$ + Conversion ratio = measured result + duty factor.



Model Number	EW-7429HOA			
Test Item	Conducted power spectral density			
Test Mode	Mode 3: IEEE 802.11ac 20MHz link mode			
Date of Test	03/19/2016			
Frequency (MHz)	ANT-0			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5260.0	-4.023	0.084	-3.939	≤ 0.09
5280.0	-4.047	0.084	-3.963	
5320.0	-4.366	0.084	-4.282	
5500.0	-4.726	0.084	-4.642	≤ 0.09
5560.0	-5.220	0.084	-5.136	
5700.0	-5.006	0.084	-4.922	
Frequency (MHz)	ANT-1			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5260.0	-3.431	0.084	-3.347	≤ 0.09
5280.0	-3.472	0.084	-3.388	
5320.0	-3.207	0.084	-3.123	
5500.0	-3.475	0.084	-3.391	≤ 0.09
5560.0	-3.565	0.084	-3.481	
5700.0	-3.238	0.084	-3.154	
Frequency (MHz)	ANT-0+1			
	Calculated (dBm/MHz)			Limit (dBm/MHz)
5260.0	-0.622			≤ 0.09
5280.0	-0.655			
5320.0	-0.653			
5500.0	-0.961			≤ 0.09
5560.0	-1.220			
5700.0	-0.938			

Note: Method SA-2, Power density = measured result + $10\log(1/\text{duty cycle})$ + Conversion ratio = measured result + duty factor.



Model Number	EW-7429HOA			
Test Item	Conducted power spectral density			
Test Mode	Mode 4: IEEE 802.11ac 40MHz link mode			
Date of Test	03/19/2016			
Frequency (MHz)	ANT-0			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5270.0	-6.529	0.169	-6.360	≤ 0.09
5310.0	-7.347	0.169	-7.178	
5510.0	-7.549	0.169	-7.380	≤ 0.09
5550.0	-7.856	0.169	-7.687	
5670.0	-7.535	0.169	-7.366	
Frequency (MHz)	ANT-1			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5270.0	-6.783	0.169	-6.614	≤ 0.09
5310.0	-6.649	0.169	-6.480	
5510.0	-6.440	0.169	-6.271	≤ 0.09
5550.0	-6.271	0.169	-6.102	
5670.0	-6.131	0.169	-5.962	
Frequency (MHz)	ANT-0+1			
	Calculated (dBm/MHz)			Limit (dBm/MHz)
5270.0	-3.475			≤ 0.09
5310.0	-3.805			
5510.0	-3.780			≤ 0.09
5550.0	-3.812			
5670.0	-3.597			

Note: Method SA-2, Power density = measured result + 10log(1/duty cycle) + Conversion ratio = measured result + duty factor.



Model Number	EW-7429HOA			
Test Item	Conducted power spectral density			
Test Mode	Mode 5: IEEE 802.11ac 80MHz Link Mode			
Date of Test	03/19/2016			
Frequency (MHz)	ANT-0			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5290.0	-9.536	0.272	-9.264	≤ 0.09
5530.0	-10.417	0.272	-10.145	≤ 0.09
5610.0	-11.417	0.272	-11.145	
Frequency (MHz)	ANT-1			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5290.0	-12.114	0.272	-11.842	≤ 0.09
5530.0	-9.285	0.272	-9.013	≤ 0.09
5610.0	-9.127	0.272	-8.855	
Frequency (MHz)	ANT-0+1			Limit (dBm/MHz)
	Calculated (dBm/MHz)			
5290.0	-7.355			≤ 0.09
5530.0	-6.532			≤ 0.09
5610.0	-6.841			

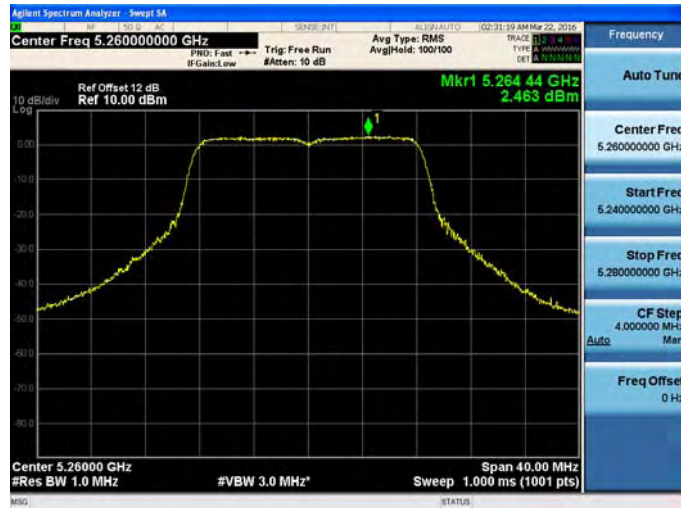
Note: Method SA-2, Power density = measured result + 10log(1/duty cycle) + Conversion ratio = measured result + duty factor.



■ Test Graphs

Mode 2: IEEE 802.11a Link Mode_ANT-0

5260



5280



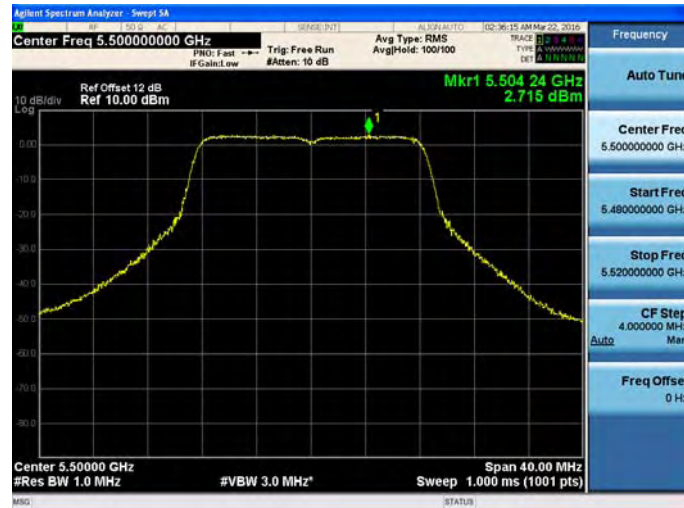
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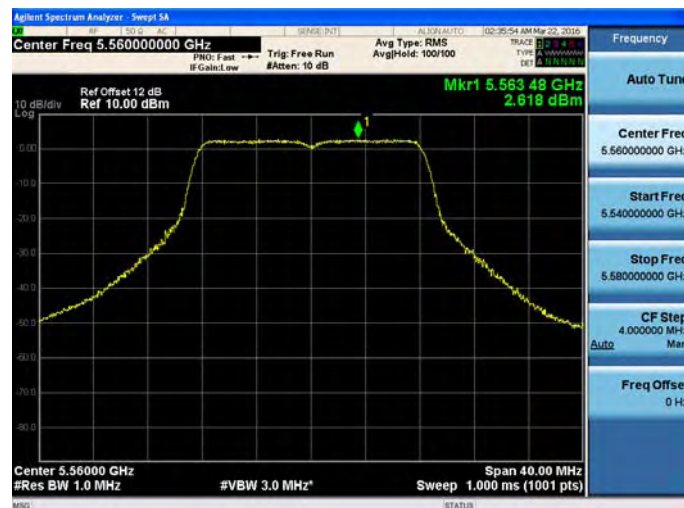


Mode 2: IEEE 802.11a Link Mode_ANT-0

5500



5560



5700





Mode 3: IEEE 802.11ac 20MHz link mode_ANT-0

5260



5280



5320





Mode 3: IEEE 802.11ac 20MHz link mode_ANT-0

5500



5560



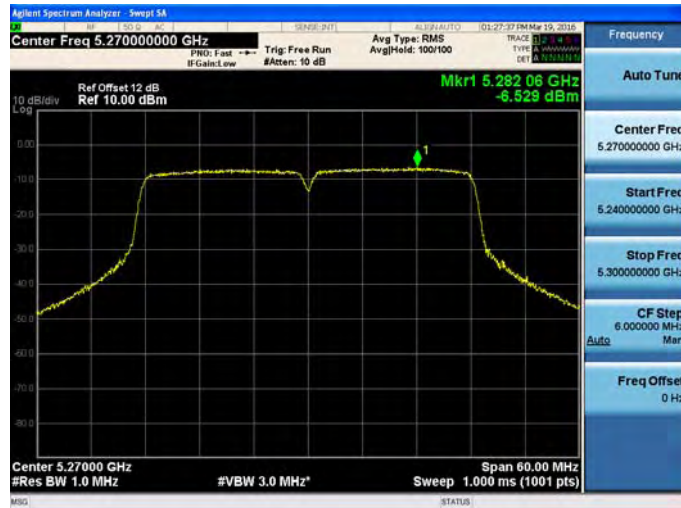
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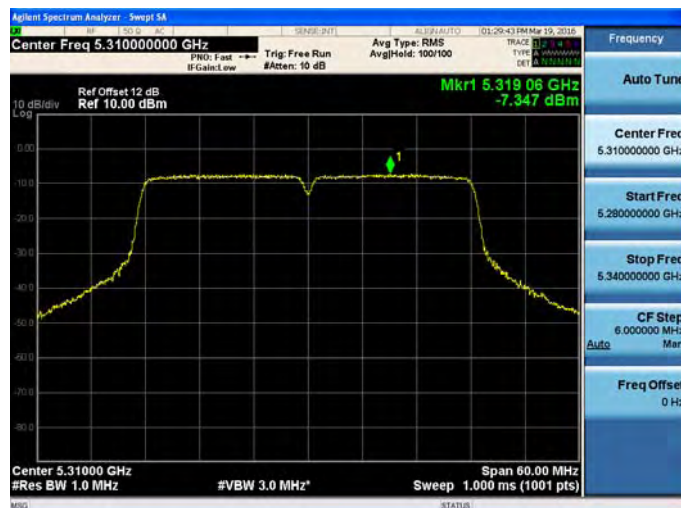


Mode 4: IEEE 802.11ac 40MHz link mode_ANT-0

5270



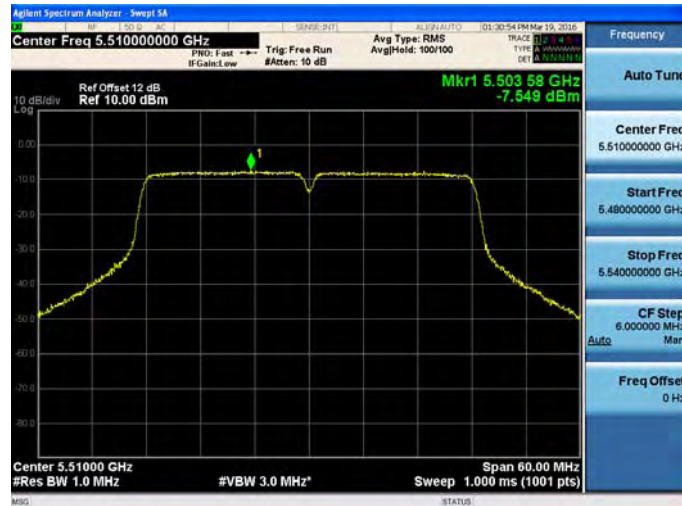
5310





Mode 4: IEEE 802.11ac 40MHz link mode_ANT-0

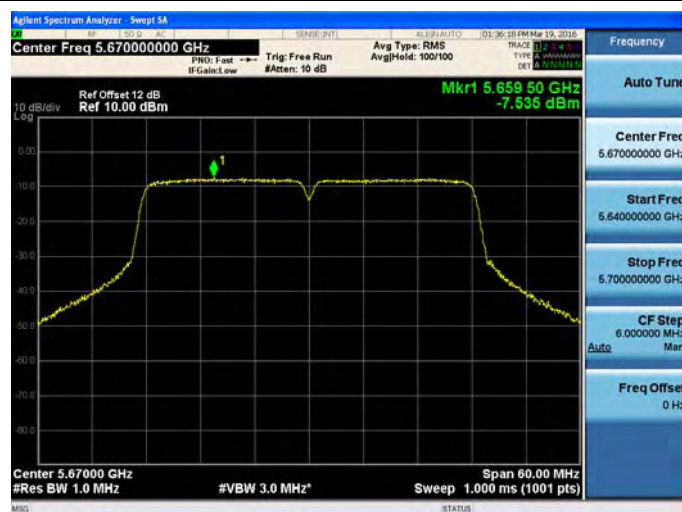
5510



5550



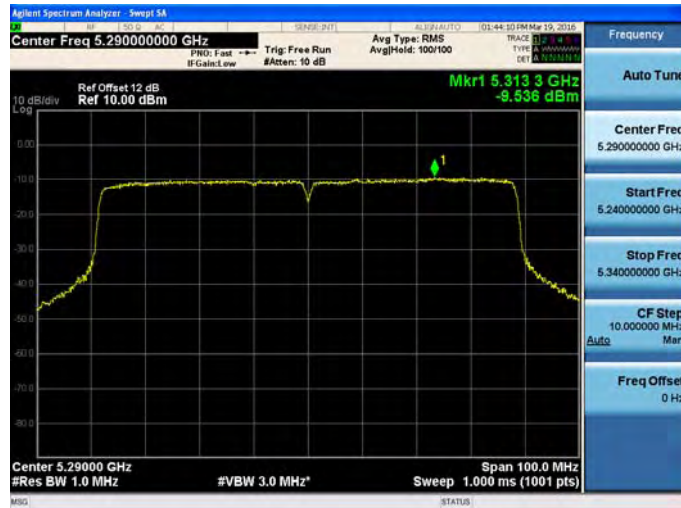
5670





Mode 5: IEEE 802.11ac 80MHz Link Mode_ANT-0

5290



5530



5610





Mode 3: IEEE 802.11ac 20MHz link mode_ANT-1

5260



5280



5320





Mode 3: IEEE 802.11ac 20MHz link mode_ANT-1

5500



5560



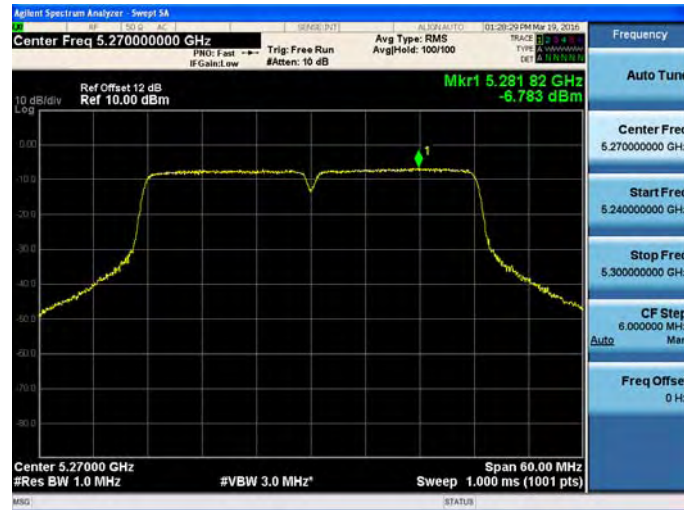
5700





Mode 4: IEEE 802.11ac 40MHz link mode_ANT-1

5270



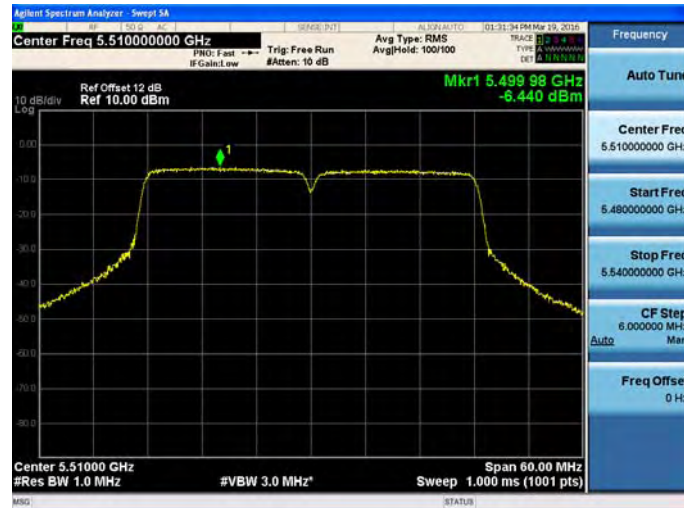
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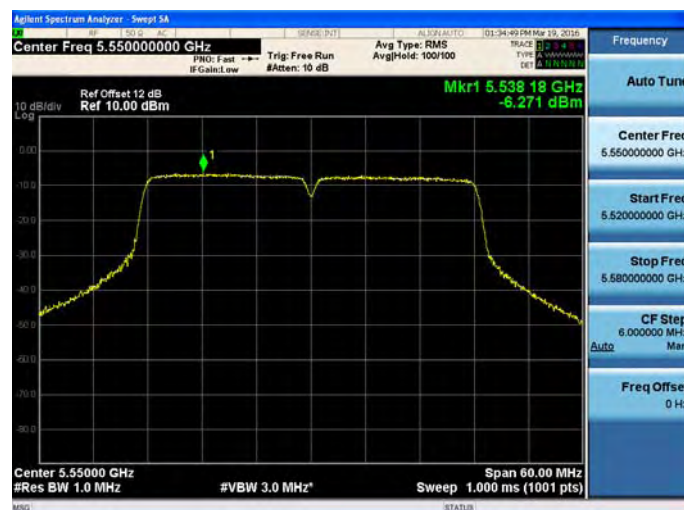


Mode 4: IEEE 802.11ac 40MHz link mode_ANT-1

5510



5550



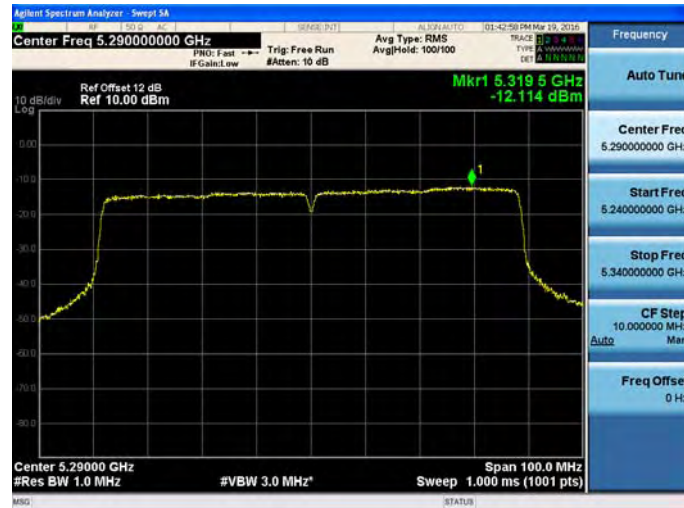
5670





Mode 5: IEEE 802.11ac 80MHz Link Mode_ANT-1

5290



5530



5610

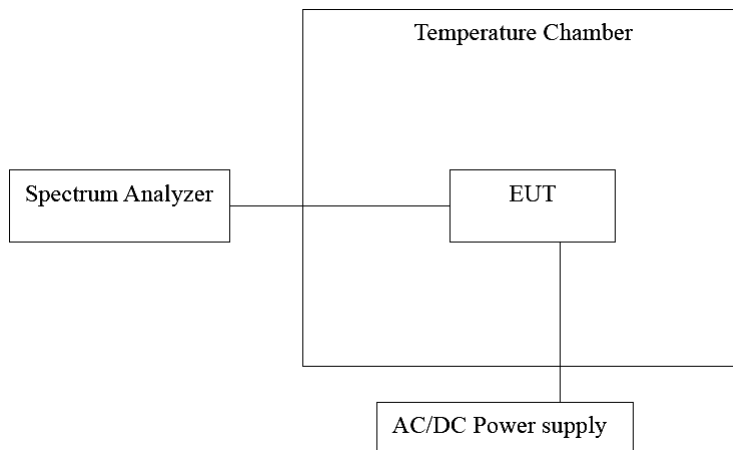


4.6. Frequency Stability Measurement

■ Limit

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

■ Test Setup



■ Test Instruments

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Spectrum Analyzer	Agilent	E4408B	MY45107753	07/27/2015	1 year
Temperature & Humidity Chamber	TAICHY	MHU-225LA	980729	04/18/2016	1 year
Test Site	ATL	TE05	TE05	N.C.R.	-----

Note: N.C.R. = No Calibration Request.

4.7. Test Procedure

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



■ Test Result

Temperature Variations

Model Number	EW-7429HOA					
Test Item	Frequency Stability					
Date of Test	02/26/2016					
Frequency	Temp. (°C)	Voltage (Vac)	Measured Freq. (MHz)	Delta Freq. (Hz)	Tolerance (ppm)	Result (Pass/Fail)
5280 MHz	-30	120	5280.0436	43600	8.258	Pass
	-20		5280.0396	39600	7.500	Pass
	-10		5280.0479	47900	9.072	Pass
	0		5279.9818	-18200	-3.447	Pass
	10		5280.0600	60000	11.364	Pass
	20		5280.0719	71900	13.617	Pass
	30		5280.0916	91600	17.348	Pass
	40		5280.0872	87200	16.515	Pass
	50		5280.0999	99900	18.920	Pass
	60		5280.0898	89800	17.008	Pass
5560 MHz	-30	120	5560.0328	32800	5.899	Pass
	-20		5559.9446	-55400	-9.964	Pass
	-10		5559.9483	-51700	-9.299	Pass
	0		5559.9495	-50500	-9.083	Pass
	10		5559.9692	-30800	-5.540	Pass
	20		5560.0416	41600	7.482	Pass
	30		5560.0592	59200	10.647	Pass
	40		5560.0492	49200	8.849	Pass
	50		5560.0919	91900	16.529	Pass
	60		5560.0909	90900	16.349	Pass

Voltage Variations

Model Number	EW-7429HOA					
Test Item	Frequency Stability					
Date of Test	02/26/2016					
Frequency	Temp. (°C)	Voltage (Vac)	Measured Freq. (MHz)	Delta Freq. (Hz)	Tolerance (ppm)	Result (Pass/Fail)
5280 MHz	20	138.00	5280.0273	27300	5.170	Pass
		120.00	5280.0719	71900	13.617	Pass
		102.00	5280.0727	72700	13.769	Pass
5560 MHz	20	138.00	5559.979	-21000	-3.777	Pass
		120.00	5560.0416	41600	7.482	Pass
		102.00	5560.0748	74800	13.453	Pass

Note: The manufacturer's frequency stability specification is better than 20ppm.



4.8. Antenna Requirement

■ Requirement

For intentional device, according to 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.

And According to 15.407 (a), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

■ Antenna Connector Construction

See section 2 – antenna information.

■ Directional Gain Calculated

See section 4.3 – Limit and section 4.5– Limit.