

FCC Test Report

Product Name : Dual-band Wireless-AC750 Range Extender

Model No. : RP-AC52

FCC ID. : MSQ-RPAC52

Applicant : ASUSTeK COMPUTER INC.

Address : 4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan

Date of Receipt : 2015/03/10

Issued Date : 2015/05/21

Report No. : 1530179R-RFUSP57V00

Report Version : V1.0



The test results relate only to the samples tested.

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Test Report Certification

Issued Date : 2015/05/21

Report No. : 1530179R-RFUSP57V00



Product Name : Dual-band Wireless-AC750 Range Extender
 Applicant : ASUSTeK COMPUTER INC.
 Address : 4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan
 Manufacturer : ASUSTeK COMPUTER INC.
 Model No. : RP-AC52
 FCC ID. : MSQ-RPAC52
 EUT Voltage : AC 100-240V, 50-60Hz
 Trade Name : ASUS
 Applicable Standard : FCC CFR Title 47 Part 15 Subpart E Section 15.407: 2014
 ANSI C63.10
 Test Result : Complied

The test results relate only to the samples tested.

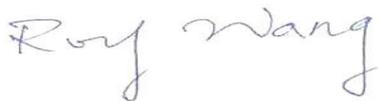
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Documented By : 

 (Demi Chang / Engineering Adm. Specialist)

Reviewed By : 

 (Bruno Tsai / Engineer)

Approved By : 

 (Roy Wang / Director)

Laboratory Information

We, **Quietek Corporation**, are an independent RF consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted (audited or listed) by the following related bodies in compliance with ISO 17025 specified testing scopes:

Taiwan R.O.C.	:	TAF, Accreditation Number: 3024
USA	:	FCC, Registration Number: 365520
Canada	:	IC, Submission No: 150981

The related certificate for our laboratories about the test site and management system can be downloaded from Quietek Corporation's Web Site:<http://www.quietek.com/english/about/certificates.aspx?bval=5>

The address and introduction of Quietek Corporation's laboratories can be founded in our Web site :
http://www.quietek.com/index_en.aspx

If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

HsinChu Testing Laboratory:

No.75-2, 3rd Lin, Wangye Keng, Yonghxing Tsuen, Qionglin Shiang, Hsinchu County 307, Taiwan, R.O.C.
TEL:+886-3-592-8858 / FAX:+886-3-592-8859 E-Mail : service@quietek.com

LinKou Testing Laboratory:

No.5-22, Ruishukeng, Linkou Dist., New Taipei City 24451, Taiwan, R.O.C.
TEL : 886-2-8601-3788 / FAX : 886-2-8601-3789 E-Mail : service@quietek.com

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1. General Information

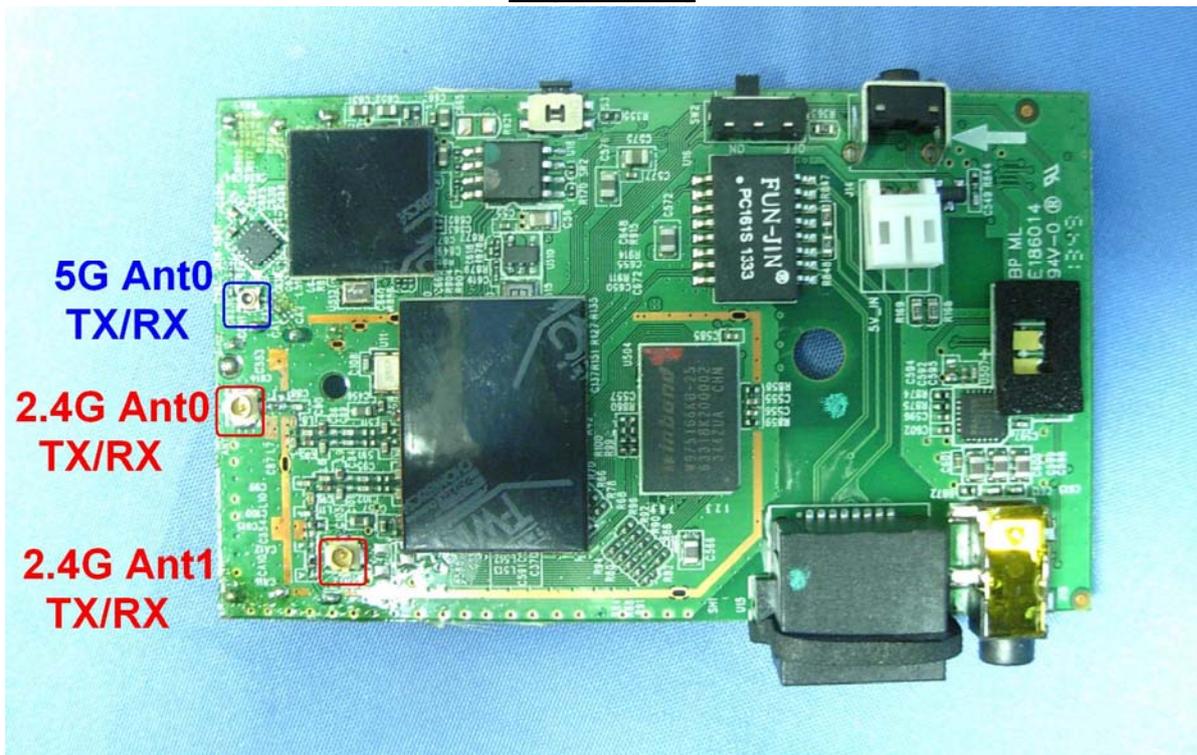
1.1. EUT Description

Product Name	Dual-band Wireless-AC750 Range Extender	
Product Type	WLAN (1TX, 1RX)	
Trade Name	ASUS	
Model No.	RP-AC52	
Frequency Range/ Channel Number	IEEE 802.11a/ IEEE 802.11n/ac (20MHz)	5180~5240MHz / 4 Channels
	IEEE 802.11n/ac (40MHz)	5190~5230MHz / 2 Channels
	IEEE 802.11ac (80MHz)	5210~5210MHz / 1 Channel
Type of Modulation	IEEE 802.11a/n/ac	Orthogonal Frequency Division Multiplexing
Data Speed	IEEE 802.11a	6Mbps,9Mbps,12Mbps,18Mbps,24Mbps,36Mbps,48Mbps,54Mbps
	IEEE 802.11n	Support a subset of the combination of GI, MCS 0~MCS 7 and bandwidth defined in 802.11n
	IEEE 802.11ac	Support a subset of the combination of GI, MCS 0~MCS 9 and bandwidth defined in 802.11ac
Antenna Gain	3dBi	
Antenna Type	PIFA Antenna	

ANT-TX / RX & Bandwidth

ANT-TX / RX	TX			RX		
	20MHz	40MHz	80MHz	20MHz	40MHz	80MHz
IEEE802.11a	✓			✓		
IEEE802.11n	✓	✓		✓	✓	
IEEE802.11ac	✓	✓	✓	✓	✓	✓

5G(1TX /1RX)



IEEE 802.11n

MCS Index	Modulation	R	N _{BPSCS}	N _{CBPS}		N _{DBPS}		Data Rate(Mb/s)			
				20MHz	40MHz	20MHz	40MHz	800ns GI		400ns GI	
								20MHz	40MHz	20MHz	40MHz
0	BPSK	1/2	1	52	108	26	54	6.5	13.5	7.2	15.0
1	QPSK	1/2	2	104	216	52	108	13.0	27.0	14.4	30.0
2	QPSK	3/4	2	104	216	78	162	19.5	40.5	21.7	45.0
3	16-QAM	1/2	4	208	432	104	216	26.0	54.0	28.9	60.0
4	16-QAM	3/4	4	208	432	156	324	39.0	81.0	43.3	90.0
5	64-QAM	2/3	6	312	648	208	432	52.0	108.0	57.8	120.0
6	64-QAM	3/4	6	312	648	234	486	58.5	121.5	65.0	135.0
7	64-QAM	5/6	6	312	648	260	540	65.0	135.0	72.2	150.0

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

Table 1 – MCS parameters for TX Antenna number = 1

Symbol	Explanation
R	Code rate
N _{BPSC}	Number of coded bits per single carrier
N _{CBPS}	Number of coded bits per symbol
N _{DBPS}	Number of data bits per symbol
GI	guard interval

IEEE 802.11ac Data Rate

Spatial Streams (Note1)	MCS Index	Modulation type	Coding rate	Data Rate(Mb/s)							
				20 MHz		40 MHz		80 MHz		160 MHz	
				Guard Interval		Guard Interval		Guard Interval		Guard Interval	
				800ns	400ns	800ns	400ns	800ns	400ns	800ns	400ns
1	0	BPSK	1/2	6.5	7.2	13.5	15	29.3	32.5	58.5	65
	1	QPSK	1/2	13	14.4	27	30	58.5	65	117	130
	2	QPSK	3/4	19.5	21.7	40.5	45	87.8	97.5	175.5	195
	3	16-QAM	1/2	26	28.9	54	60	117	130	234	260
	4	16-QAM	3/4	39	43.3	81	90	175.5	195	351	390
	5	64-QAM	2/3	52	57.8	108	120	234	260	468	520
	6	64-QAM	3/4	58.5	65	121.5	135	263.3	292.5	526.5	585
	7	64-QAM	5/6	65	72.2	135	150	292.5	325	585	650
	8	256-QAM	3/4	78	86.7	162	180	351	390	702	780
	9	256-QAM	5/6	N/A	N/A	180	200	390	433.3	780	866.7

Table 1 – MCS parameters

IEEE 802.11a & IEEE 802.11n/ac (20MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180MHz	40	5200MHz	44	5220MHz	48	5240MHz

IEEE 802.11n/ac (40MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency				
38	5190MHz	46	5230MHz				

IEEE 802.11ac (80MHz)

Working Frequency of Each Channel			
Channel	Frequency		
42	5210 MHz		

Note:

1. This device is a Dual-band Wireless-AC750 Range Extender including 2.4GHz b/g/n(2x2) and 5GHz a/n/ac (1x1) transmitting and receiving function.
2. These test results on a sample of the device are for the purpose of demonstrating Compliance with Part 15 Subpart E Paragraph 15.407.
3. Regards to the frequency band operation; the lowest , middle and highest frequency of channel were selected to perform the test, and then shown on this report.
4. The function of the 2.4GHz transmitting is measured and makes a test report of the report number: 1530179R-RFUSP27V00.
5. The receiving function receiving was tested and its test report number is 1530179R-RFUSP01V00 under Declaration of Conformity.
6. The 5.2GHz is performed according to the UNII Test Procedures New Rules.

1.2. Test Mode

QuieTek has verified the construction and function in typical operation. The preliminary tests were performed in different data rate, and to find the worst condition, which was shown in this test report. The following table is the final test mode.

TX	Mode 1: Transmit
----	------------------

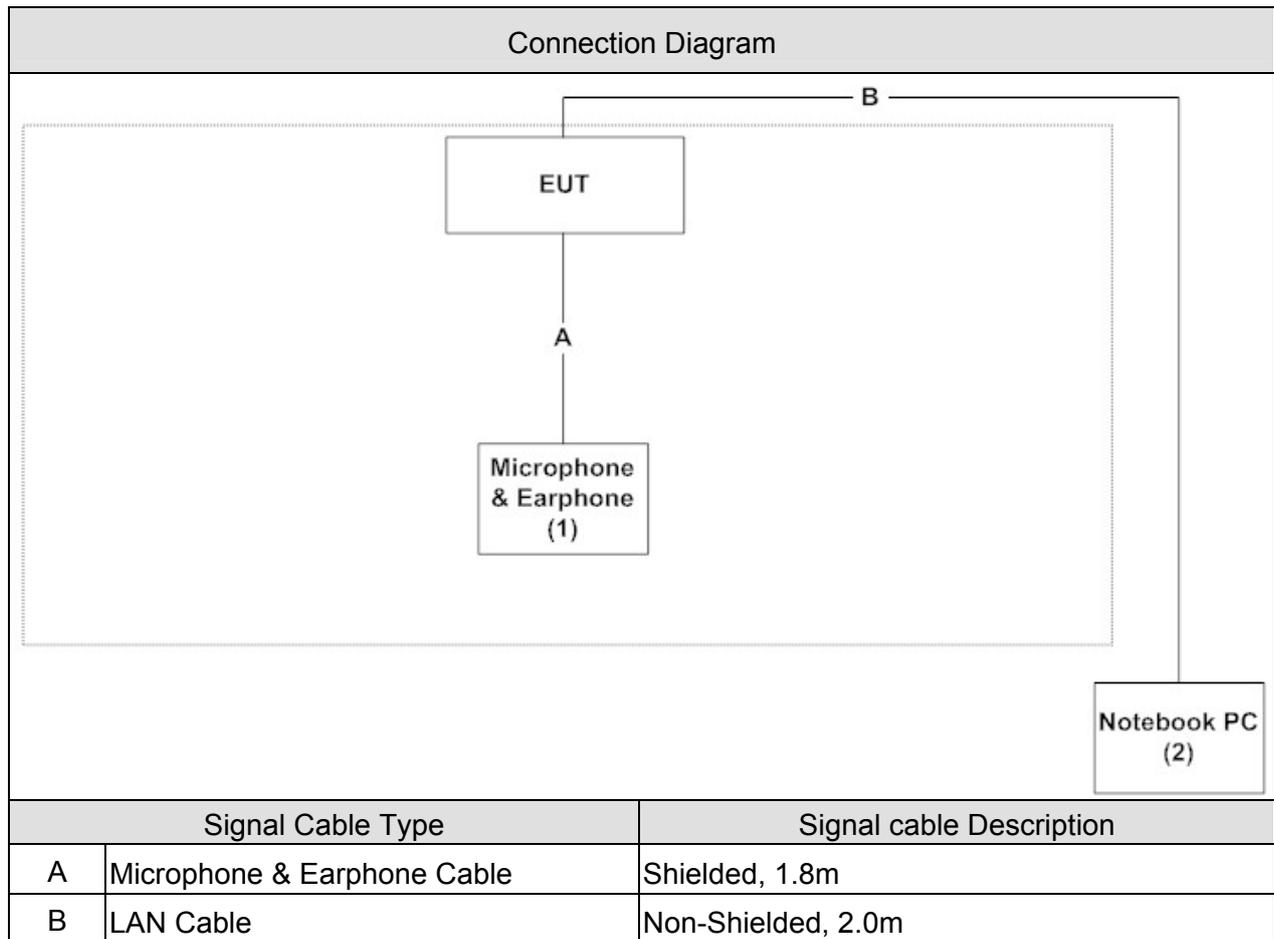
Test Items	Modulation	Channel	Antenna	Result
Conducted Emission	11ac (80MHz)	42/155	0	Complies
99 % & 26dB Bandwidth	11a	36/44/48	0	Complies
	11n (20MHz)	36/44/48	0	Complies
	11n (40MHz)	38/46	0	Complies
	11ac (80MHz)	42	0	Complies
Peak Transmit Output	11a	36/44/48	0	Complies
	11n (20MHz)	36/44/48	0	Complies
	11n (40MHz)	38/46	0	Complies
	11ac (80MHz)	42	0	Complies
Peak Power Spectrum Density	11a	36/44/48	0	Complies
	11n (20MHz)	36/44/48	0	Complies
	11n (40MHz)	38/46	0	Complies
	11ac (80MHz)	42	0	Complies
Radiated Emission	11a	36/44/48	0	Complies
	11n (20MHz)	36/44/48	0	Complies
	11n (40MHz)	38/46	0	Complies
	11ac (80MHz)	42	0	Complies
Band Edge	11a	36/44/48	0	Complies
	11n (20MHz)	36/44/48	0	Complies
	11n (40MHz)	38/46	0	Complies
	11ac (80MHz)	42	0	Complies
Frequency Stability	11a	36/44/48	0	Complies
	11n (20MHz)	36/44/48	0	Complies
	11n (40MHz)	38/46	0	Complies
	11ac (80MHz)	42	0	Complies

1.3. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product	Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
1 Microphone & Earphone	Fujiei	SBZ-38	N/A	DoC	--
2 Notebook PC	DELL	Vostro3400	7F808N1	DoC	Non-Shielded, 1.8m

1.4. Configuration of tested System



1.5. EUT Exercise Software

1	Setup the EUT as shown in Section 1.4.
2	Execute the QA Tool on the EUT.
3	Configure the test mode, the test channel, and the data rate.
4	Press "Start TX or RX" to start the continuous transmitting .
5	Verify that the EUT works properly.

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	Required (IEC 68-1)	Actual
Temperature (°C)	FCC PART 15 E 15.407 Conducted Emission	15 - 35	20
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 E 15.407 99 % & 26dB Bandwidth	15 - 35	25
Humidity (%RH)		25 - 75	48
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 E 15.407 Peak Transmit Power	15 - 35	25
Humidity (%RH)		25 - 75	65
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 E 15.407 Peak Power Spectrum	15 - 35	24
Humidity (%RH)		25 - 75	49
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 E 15.407 Radiated Emission	15 - 35	25
Humidity (%RH)		25 - 75	48
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 E 15.407 Band Edge	15 - 35	25
Humidity (%RH)		25 - 75	48
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 E 15.407 Frequency Stability	15 - 35	25
Humidity (%RH)		25 - 75	48
Barometric pressure (mbar)		860 - 1060	950-1000

2. Conducted Emission

2.1. Test Equipment

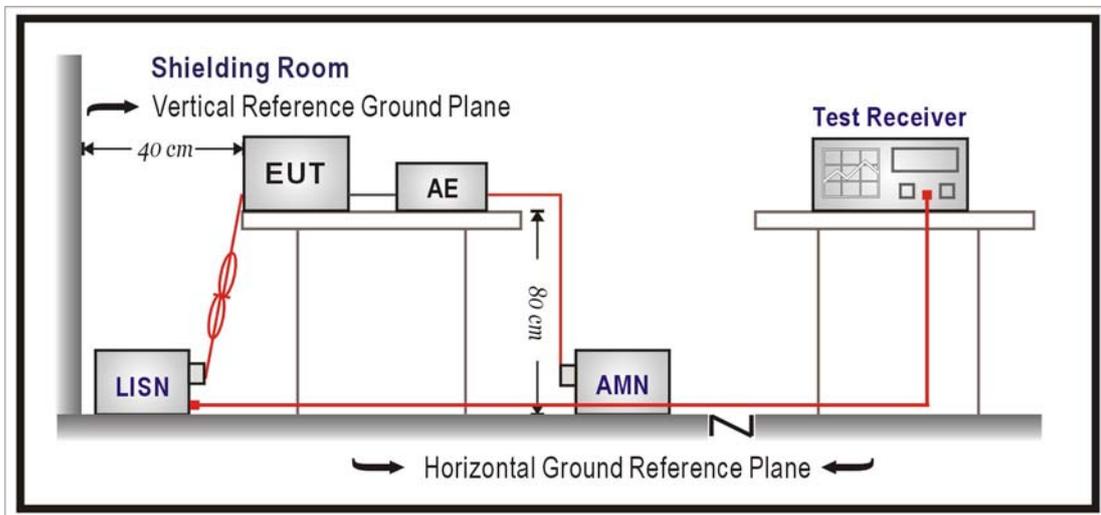
The following test equipments are used during the test:

Conducted Emission / SR3

Instrument	Manufacturer	Model No.	Serial No.	Next Cal. Date
LISN	R&S	ENV216	100096	2015/08/10
LISN	R&S	ESH3-Z5	836679/022	2015/12/15
Test Receiver	R&S	ESCS 30	825442/017	2016/01/14

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

2.2. Test Setup



2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 Limits (dBuV)		
Frequency MHz	QP	AV
0.15 - 0.50	66-56	56-46
0.50 - 5.0	56	46
5.0 - 30	60	50

Remarks: In the above table, the tighter limit applies at the band edges.

2.4. Test Procedure

The EUT was setup according to ANSI C63.10. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs.)

Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

2.5. Test Specification

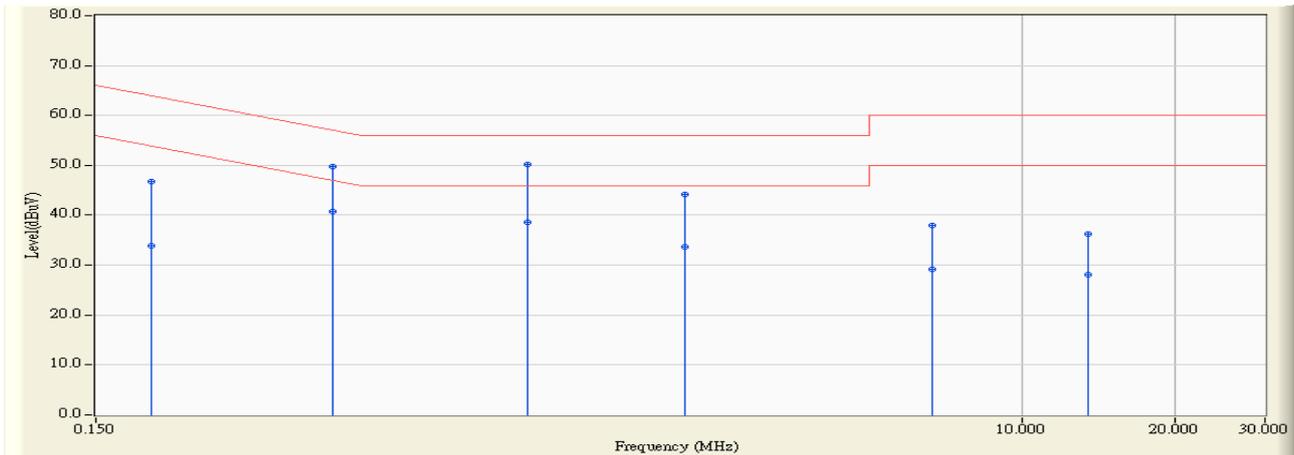
According to FCC Part 15 Subpart C Paragraph 15.207: 2014

2.6. Uncertainty

The measurement uncertainty is defined as ± 2.26 dB.

2.7. Test Result

Site : SR3	Time : 2015/05/21 - 20:36
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR3_LISN(16A)-4_0811 - Line1	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : Mode 1: Transmit _802.11ac(80MHz)_ 5210MHz

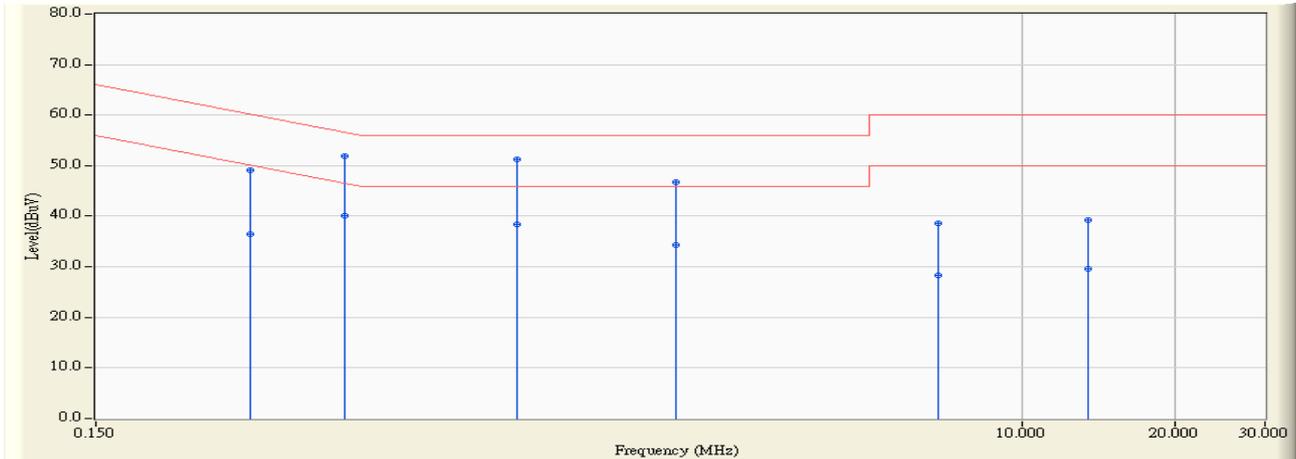


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.193	9.674	37.030	46.703	-17.204	63.908	QUASPEAK
2	0.193	9.674	24.170	33.843	-20.064	53.908	AVERAGE
3	0.439	9.808	39.970	49.777	-7.302	57.079	QUASPEAK
4	0.439	9.808	30.950	40.757	-6.322	47.079	AVERAGE
5	* 1.060	9.950	40.270	50.220	-5.780	56.000	QUASPEAK
6	1.060	9.950	28.720	38.670	-7.330	46.000	AVERAGE
7	2.158	9.958	34.180	44.138	-11.862	56.000	QUASPEAK
8	2.158	9.958	23.780	33.738	-12.262	46.000	AVERAGE
9	6.654	10.092	27.940	38.032	-21.968	60.000	QUASPEAK
10	6.654	10.092	19.070	29.162	-20.838	50.000	AVERAGE
11	13.420	10.134	26.130	36.264	-23.736	60.000	QUASPEAK
12	13.420	10.134	18.050	28.184	-21.816	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : SR3	Time : 2015/05/21 - 20:40
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR3_LISN(16A)-4_0811 - Line2	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : Mode 1: Transmit_802.11ac(80MHz)_5210MHz



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.302	9.726	39.390	49.116	-11.063	60.178	QUASPEAK
2	0.302	9.726	26.710	36.436	-13.743	50.178	AVERAGE
3	0.463	9.822	42.020	51.842	-4.805	56.648	QUASPEAK
4	0.463	9.822	30.350	40.172	-6.475	46.648	AVERAGE
5	* 1.013	9.950	41.270	51.220	-4.780	56.000	QUASPEAK
6	1.013	9.950	28.490	38.440	-7.560	46.000	AVERAGE
7	2.072	9.961	36.740	46.701	-9.299	56.000	QUASPEAK
8	2.072	9.961	24.290	34.251	-11.749	46.000	AVERAGE
9	6.806	10.127	28.420	38.547	-21.453	60.000	QUASPEAK
10	6.806	10.127	18.220	28.347	-21.653	50.000	AVERAGE
11	13.420	10.235	29.070	39.305	-20.695	60.000	QUASPEAK
12	13.420	10.235	19.450	29.685	-20.315	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

3. 99% & 26dB & DTS Bandwidth

3.1. Test Equipment

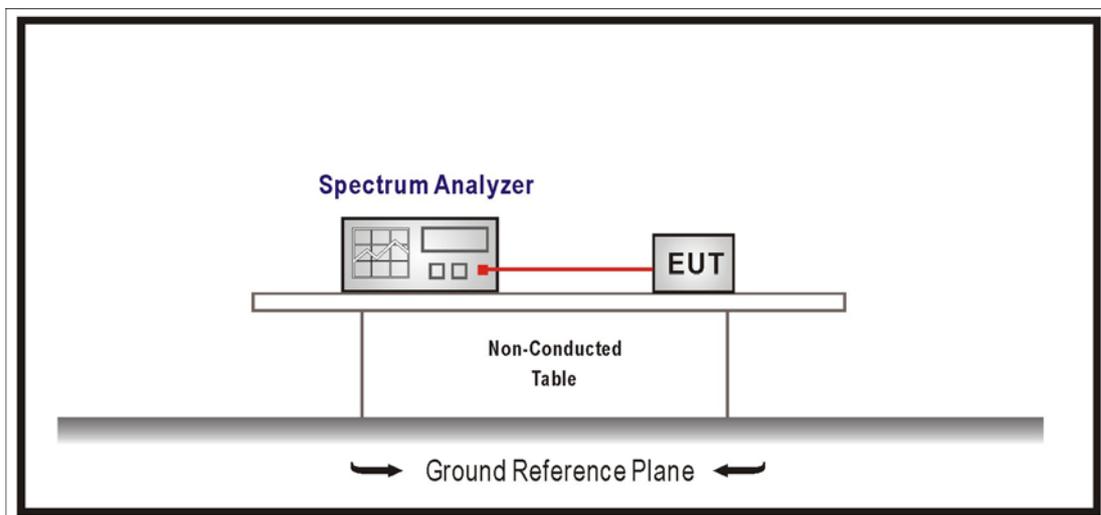
The following test equipments are used during the radiated emission tests:

99% & 26dB & DTS Bandwidth / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2015/07/14

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

3.2. Test Setup



3.3. Limits

99% & 26dB Bandwidth : No Required

DTS Bandwidth : $\geq 500\text{KHz}$

3.4. Test Procedure

99% & 26dB Bandwidth :

The EUT was tested according to U-NII test procedure of KDB 789033.

Set RBW 1% of the emission bandwidth, VBW equal to 3 times the RBW.

DTS Bandwidth :

Set RBW = 100KHz, VBW $\geq 3 \times \text{RBW}$, Sweep time=Auto, Set Peak detector.

3.5. Uncertainty

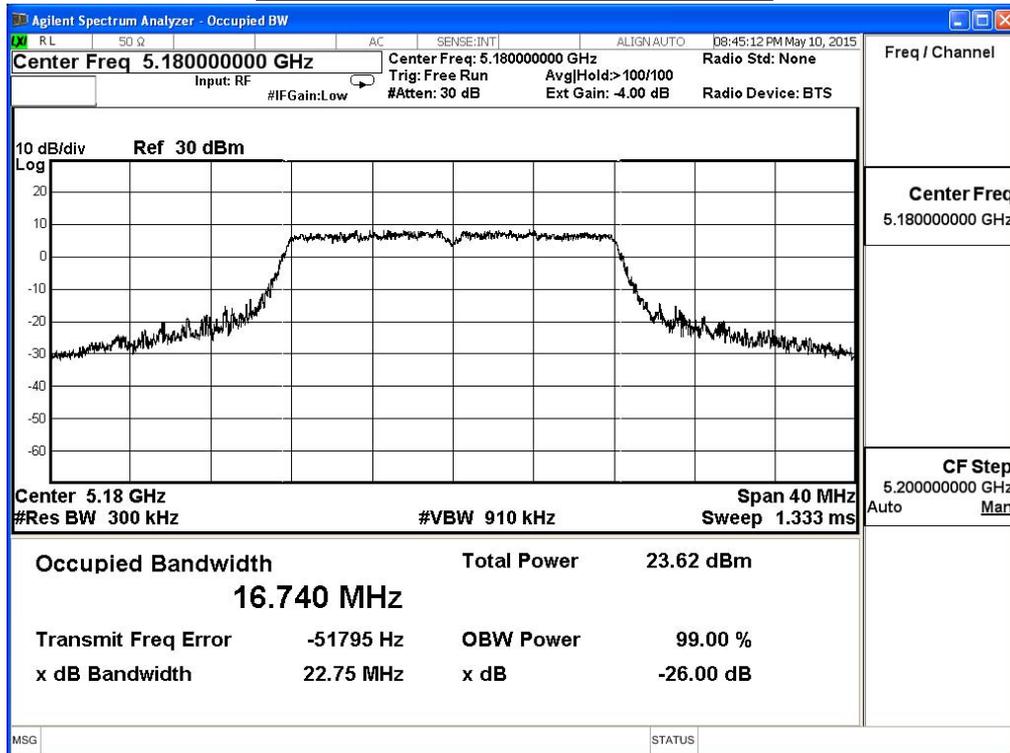
The measurement uncertainty is defined as $\pm 150\text{Hz}$

3.6. Test Result

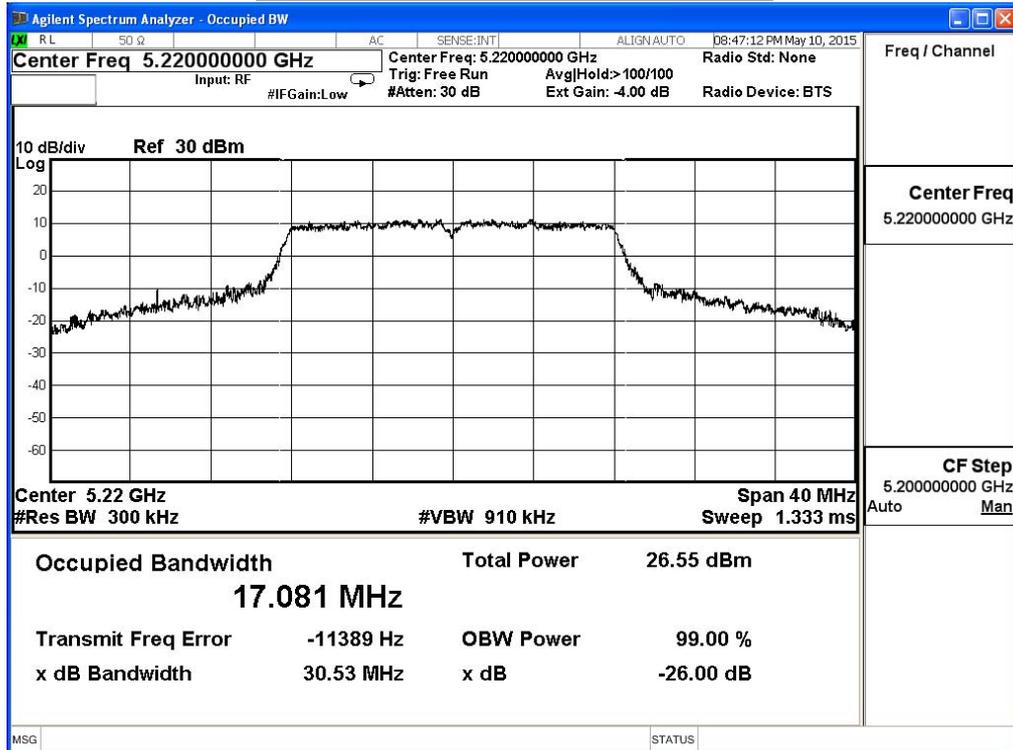
Product	Dual-band Wireless-AC750 Range Extender		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/20	Test Site	SR7

802.11a					
Channel No.	Frequency (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Result
36	5180	22.75	16.740	--	Pass
44	5220	30.53	17.081	--	Pass
48	5240	30.86	17.051	--	Pass

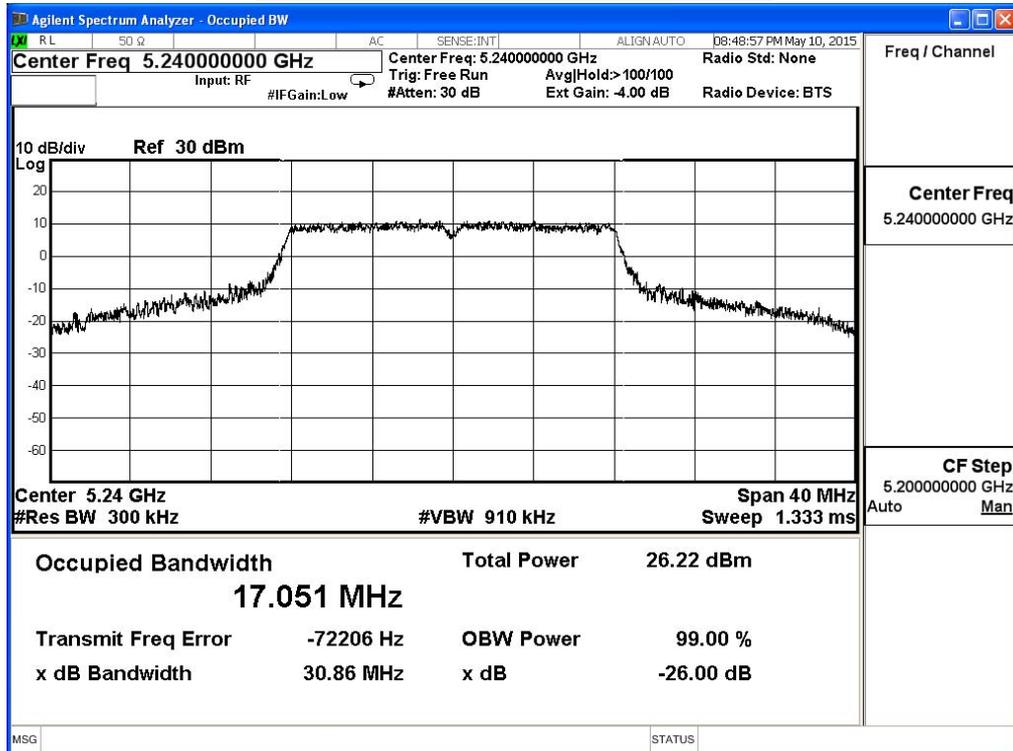
99% & 26dB Bandwidth – Channel 36



99% & 26dB Bandwidth – Channel 44



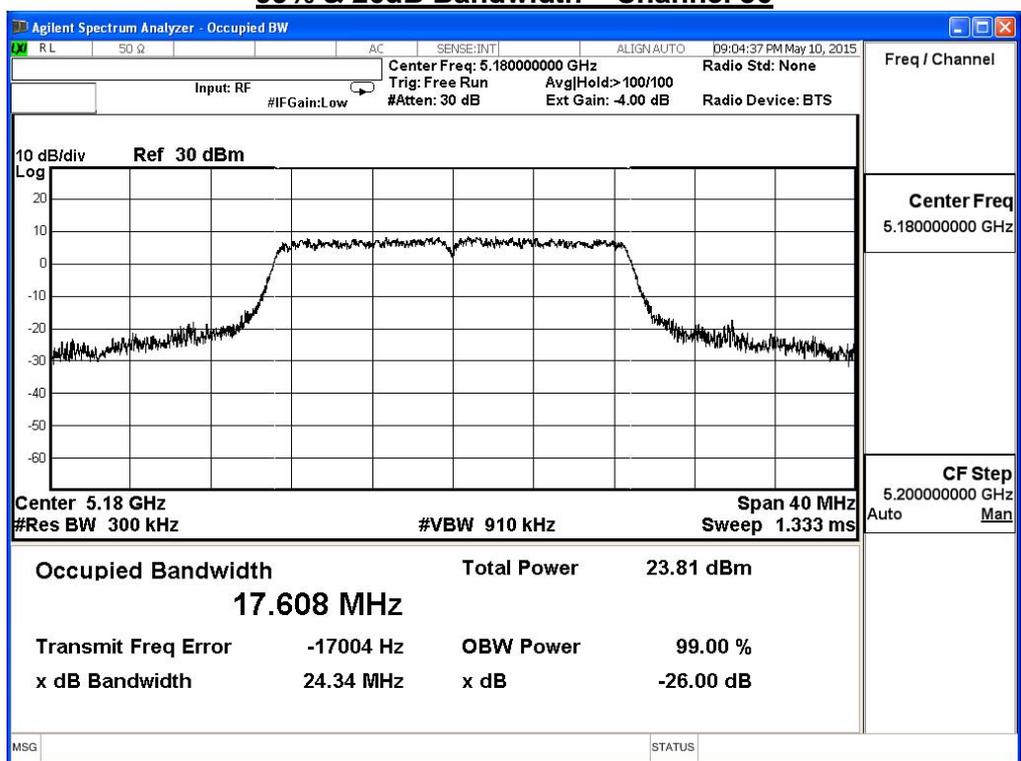
99% & 26dB Bandwidth – Channel 48



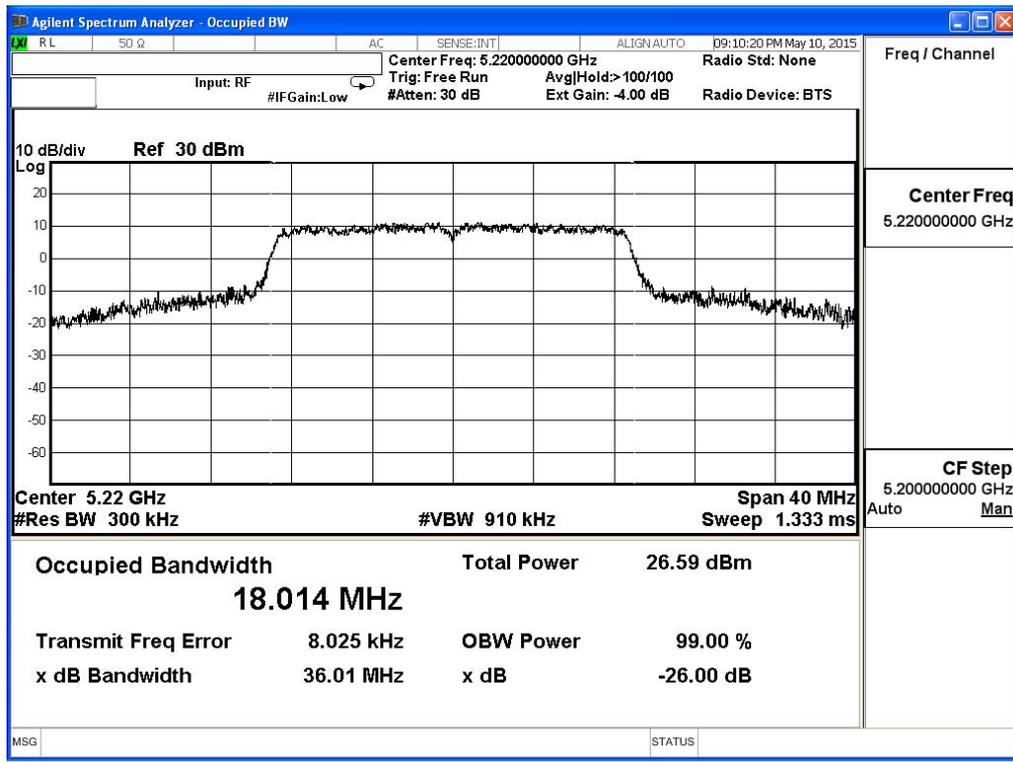
Product	Dual-band Wireless-AC750 Range Extender		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/20	Test Site	SR7

802.11n_20M(ANT 0)					
Channel No.	Frequency (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Result
36	5180	24.34	17.608	--	Pass
44	5220	36.01	18.014	--	Pass
48	5240	36.64	18.056	--	Pass

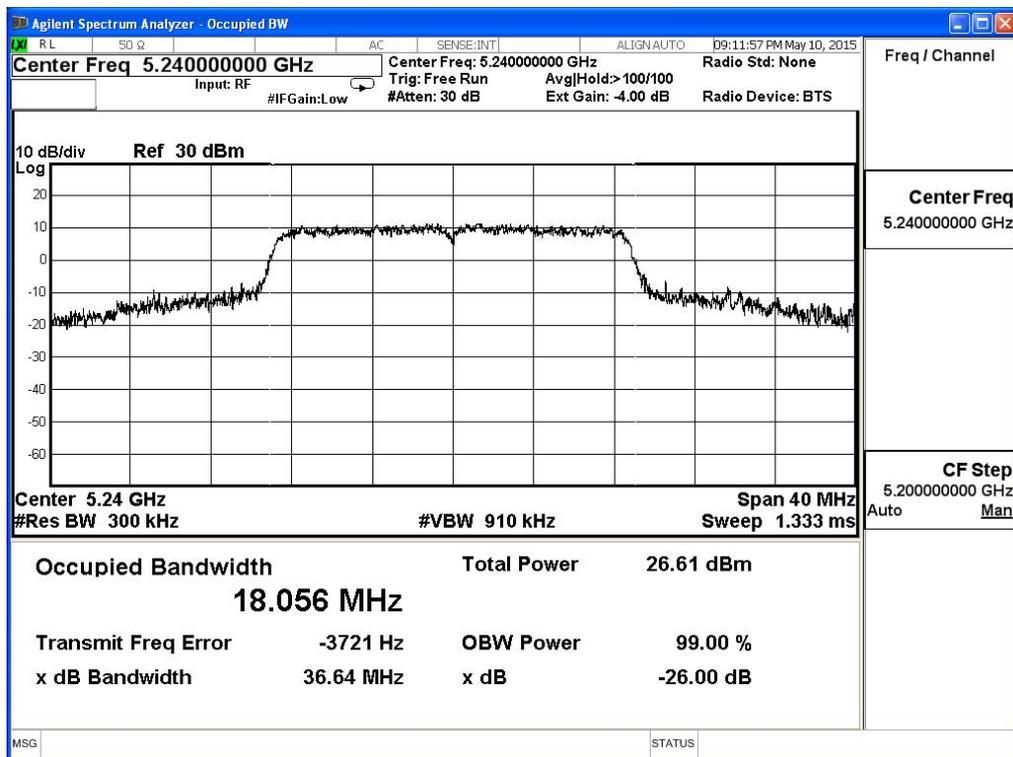
99% & 26dB Bandwidth – Channel 36



99% & 26dB Bandwidth – Channel 44



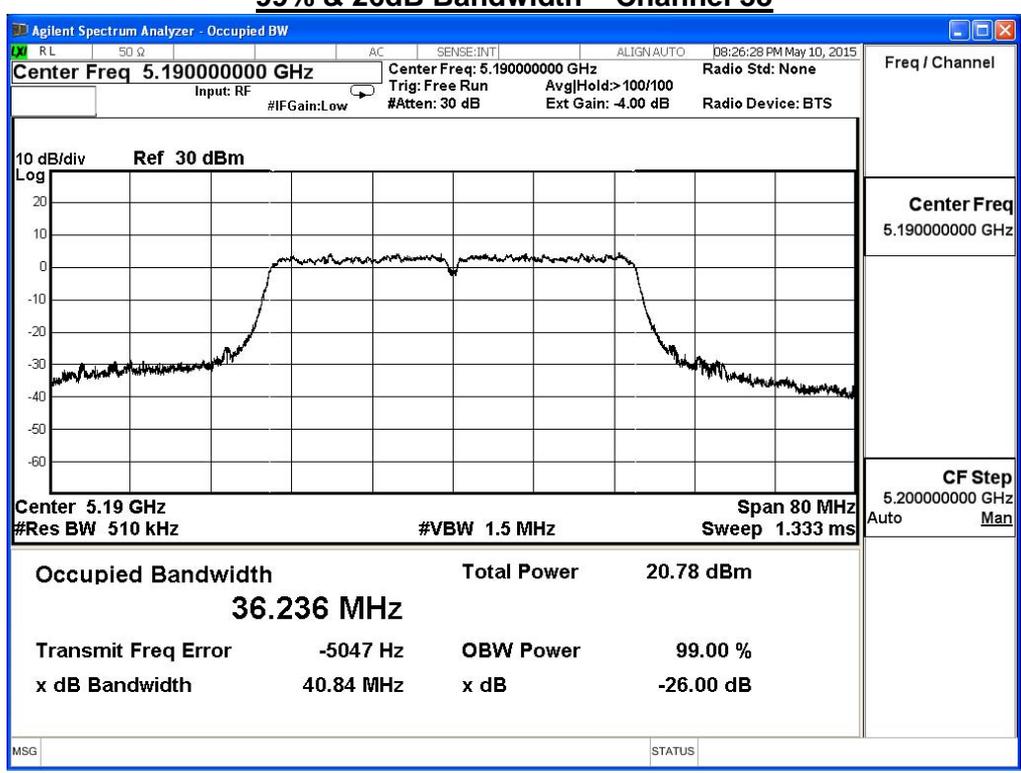
99% & 26dB Bandwidth – Channel 48



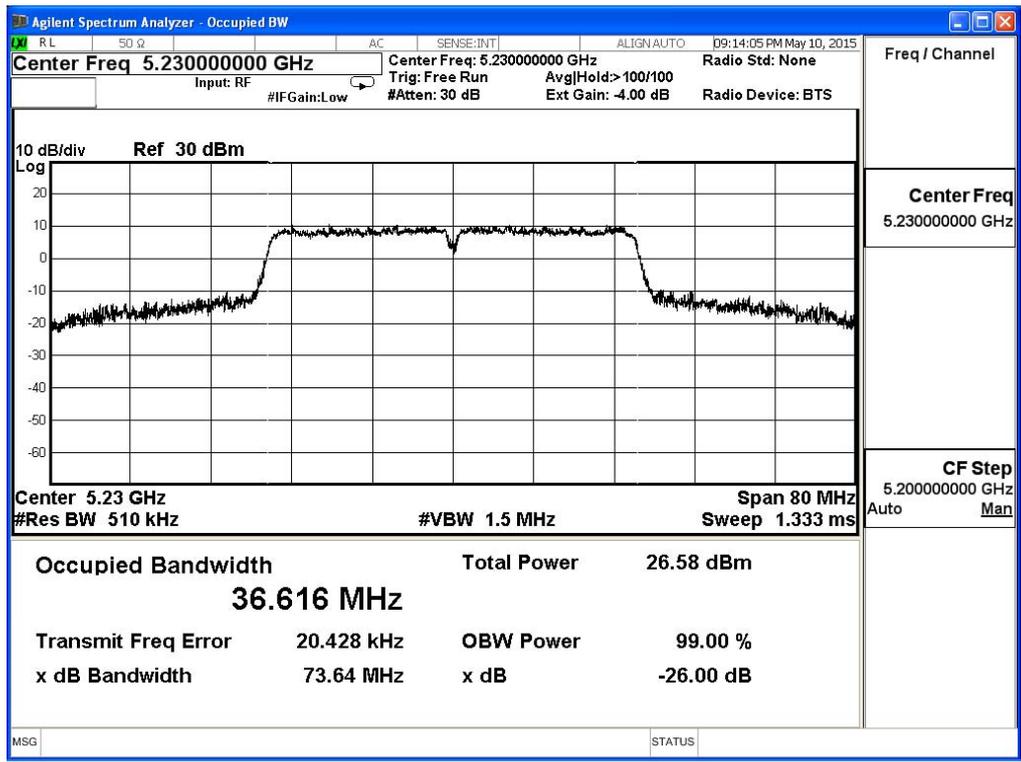
Product	Dual-band Wireless-AC750 Range Extender		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/20	Test Site	SR7

802.11n_40M(ANT 0)					
Channel No.	Frequency (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Result
38	5190	40.84	36.236	--	Pass
46	5230	73.64	36.616	--	Pass

99% & 26dB Bandwidth – Channel 38



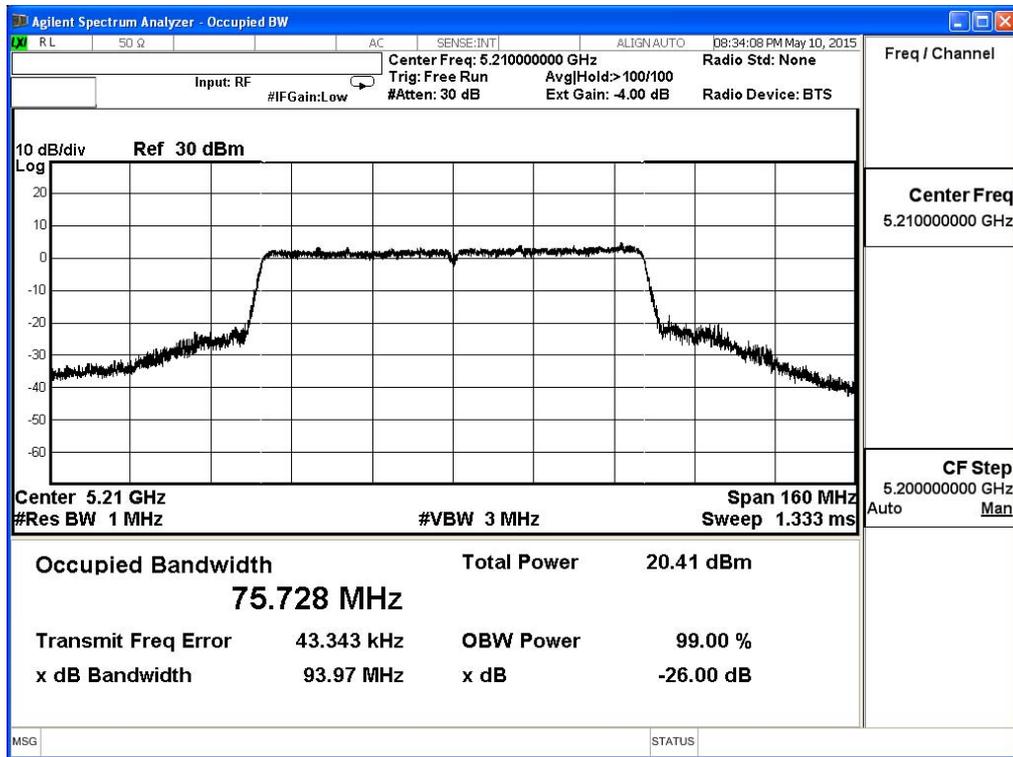
99% & 26dB Bandwidth – Channel 46



Product	Dual-band Wireless-AC750 Range Extender		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/20	Test Site	SR7

802.11ac_80M(ANT 0)					
Channel No.	Frequency (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Result
42	5210	93.97	75.728	--	Pass

99% & 26dB Bandwidth – Channel 42



4. Peak Transmit Output

4.1. Test Equipment

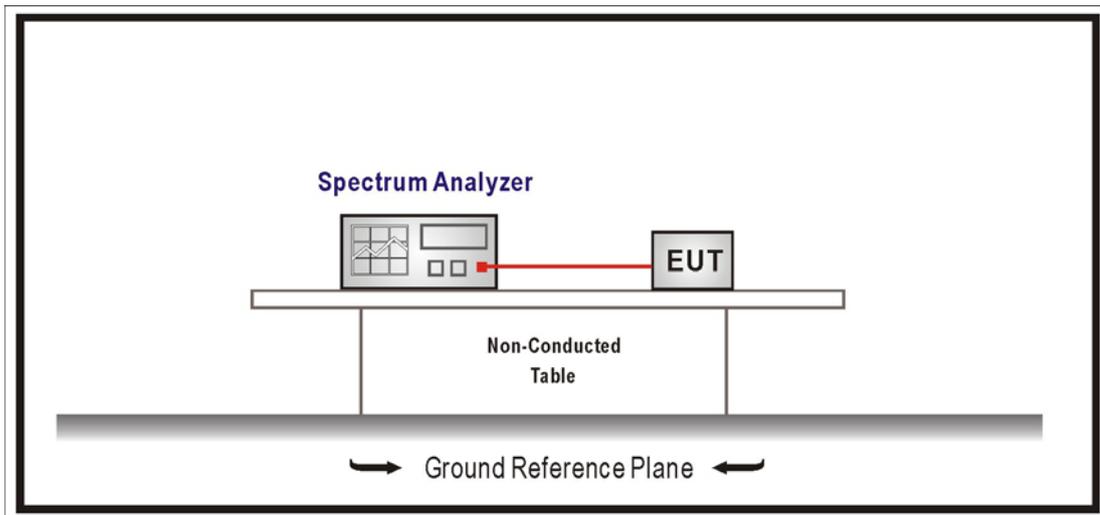
The following test equipments are used during the radiated emission tests:

Peak Transmit Output / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2015/07/14

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

4.2. Test Setup



4.3. Limits

1. For the band 5.15-5.25 GHz, the peak transmit power over the frequency band of operation shall not exceed the lesser of 1W. If transmitting antenna of directional gain greater than 6 dBi are used, the peak transmit power shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
2. For the band 5.25-5.35 GHz, the peak transmit power over the frequency band of operation shall not exceed the lesser of 250 mW. If transmitting antenna of directional gain greater than 6 dBi are used, the peak transmit power shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
3. For the band 5.725-5.850 GHz, the peak transmit power over the frequency band of operation shall not exceed the lesser of 1W. If transmitting antenna of directional gain greater than 6 dBi are used, the peak transmit power shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.

4.4. Test Procedure

The EUT was setup to ANSI C63.10, 2009; tested to U-NII test procedure of KDB 789033 for compliance to FCC 47CFR Subpart E requirements. The Method SA-1 of the Maximum conducted output power was used.

Set RBW=1MHz, VBW=3MHz with RMS detector and trace average 100 traces in power averaging mode. Set span to encompass the entire emission bandwidth (EBW) of the signal. Compute power by integrating the spectrum across the 26 dB EBW of the signal.

4.5. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB

4.6. Test Result

Product	Dual-band Wireless-AC750 Range Extender		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/20	Test Site	SR7

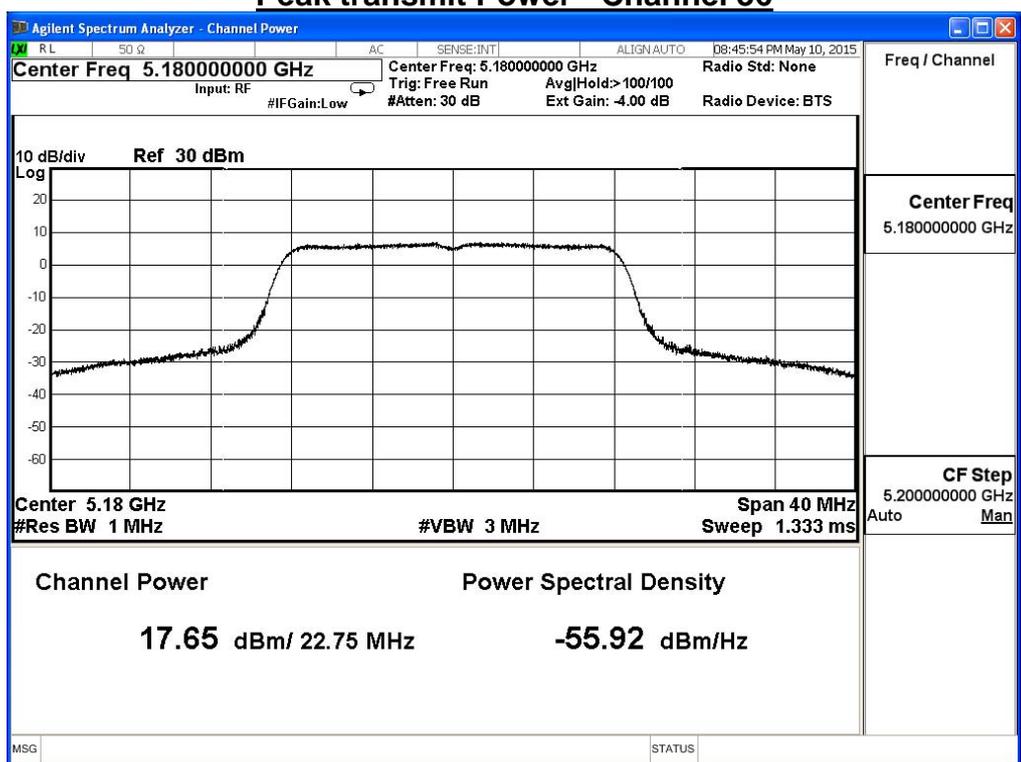
IEEE 802.11a ANT 0-AP and Bridge Mode

Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Required Limit	Result
36	5180	22.75	17.65	≤30	Pass
44	5220	30.53	20.20	≤30	Pass
48	5240	30.86	20.37	≤30	Pass

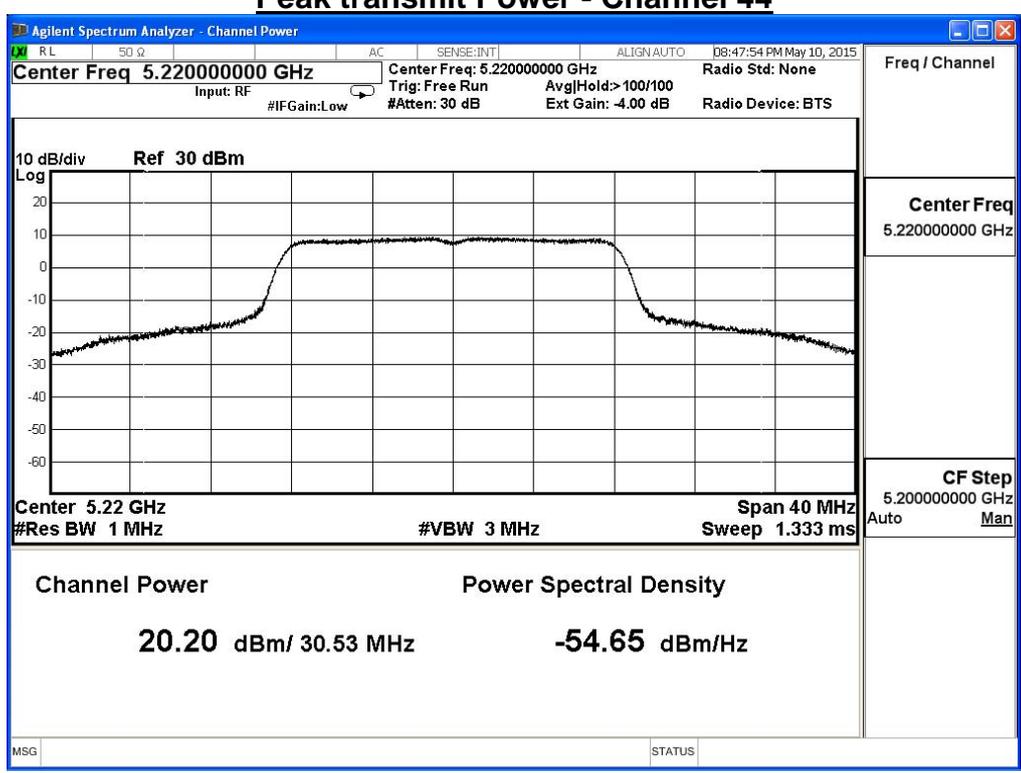
The worst emission of data rate is 6Mbps.

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
36	5180	17.65	--	--	--	--	--	--	≤30
44	5220	20.20	20.15	20.11	20.08	20.04	20.00	19.95	
48	5240	20.37	--	--	--	--	--	--	

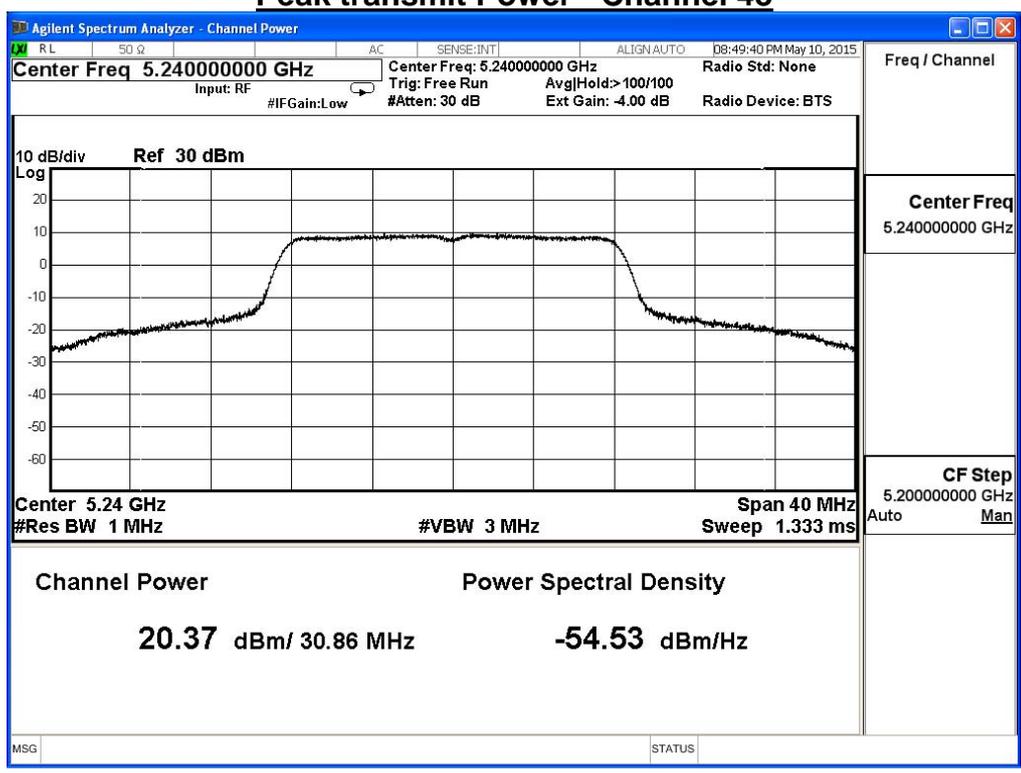
Peak transmit Power - Channel 36



Peak transmit Power - Channel 44



Peak transmit Power - Channel 48



Product	Dual-band Wireless-AC750 Range Extender		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/20	Test Site	SR7

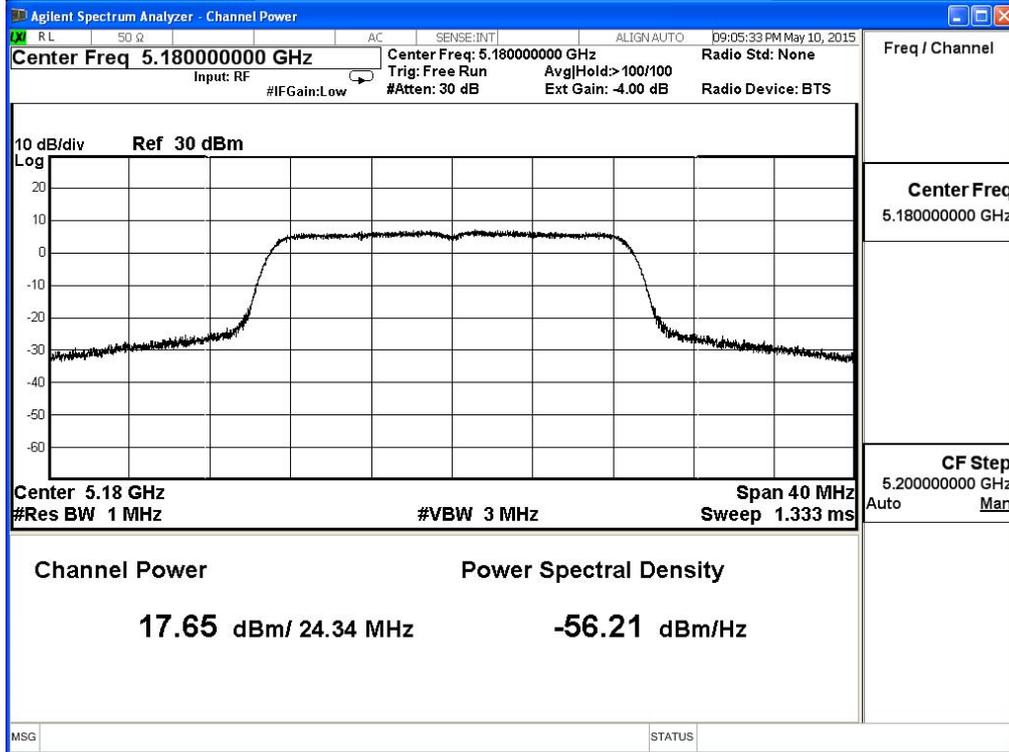
IEEE 802.11n(20MHz)_ANT 0-AP and Bridge Mode

Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Required Limit	Result
36	5180	24.34	17.65	≤30	Pass
44	5220	36.01	20.42	≤30	Pass
48	5240	36.64	20.51	≤30	Pass

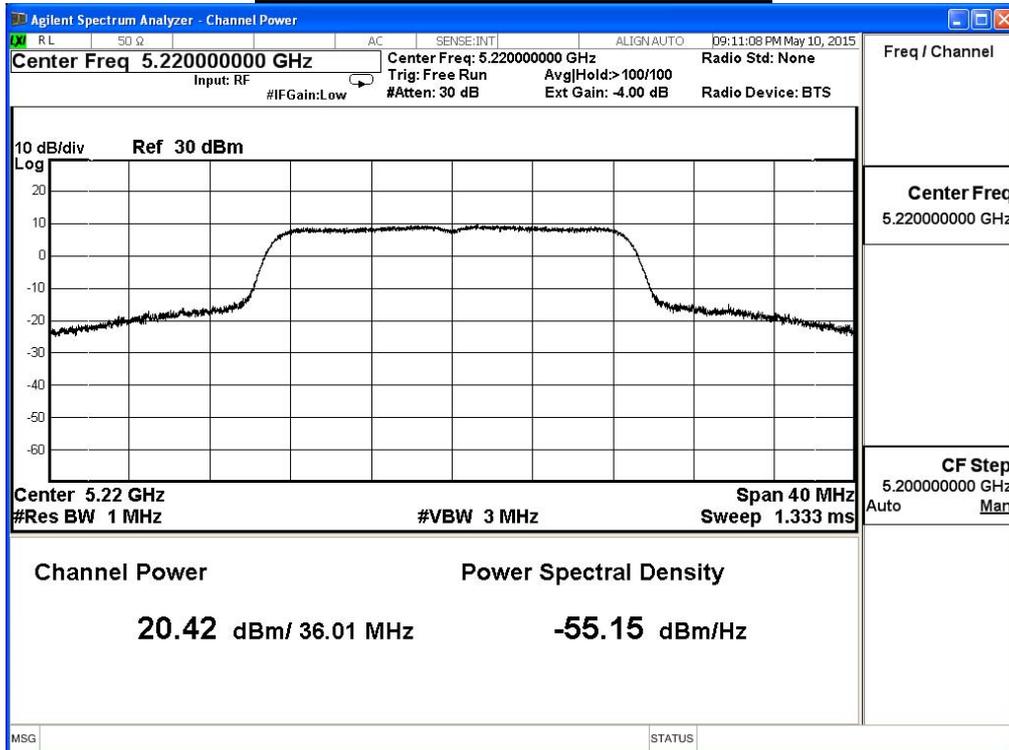
The worst emission of data rate is 6.5Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		6.5	13	19.5	26	39	52	58.5	65	
36	5180	17.65	--	--	--	--	--	--	--	≤30
44	5220	20.42	20.39	20.35	20.31	20.28	20.24	20.18	20.15	
48	5240	20.51	--	--	--	--	--	--	--	

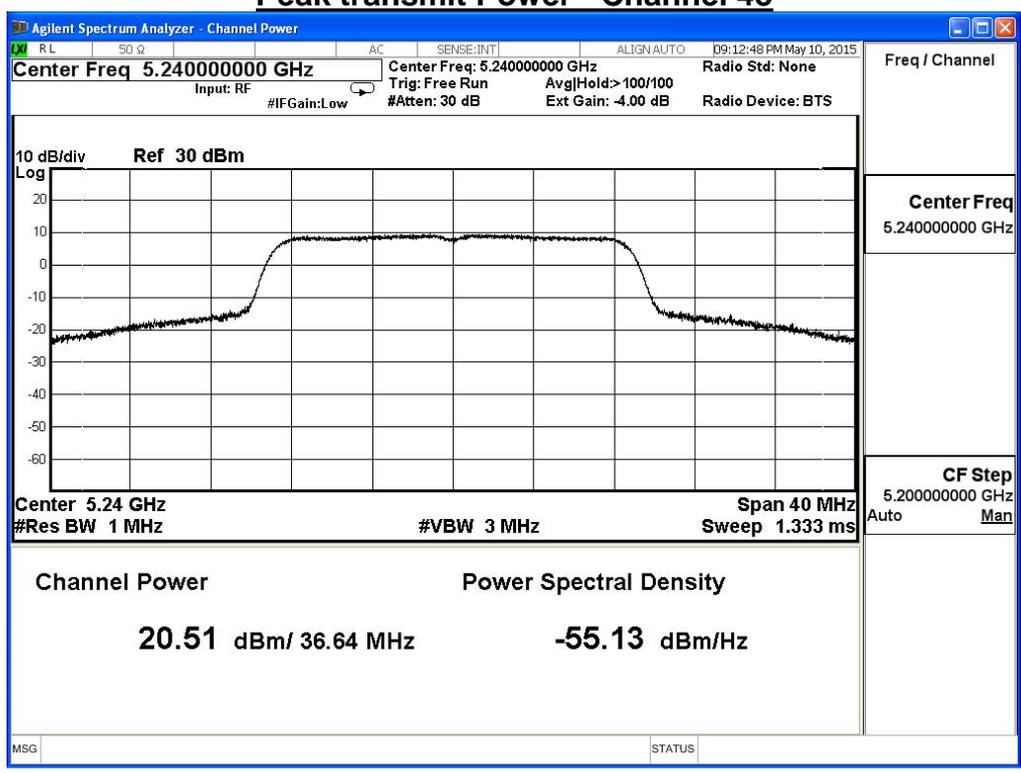
Peak transmit Power - Channel 36



Peak transmit Power - Channel 44



Peak transmit Power - Channel 48



Product	Dual-band Wireless-AC750 Range Extender		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/20	Test Site	SR7

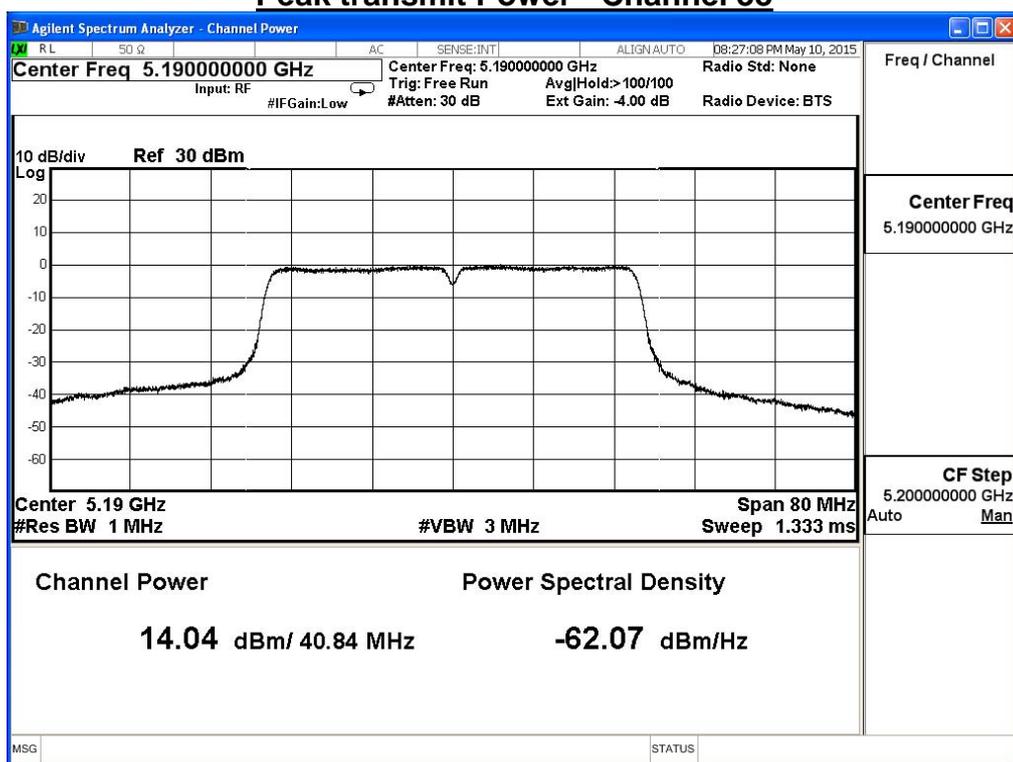
IEEE 802.11n(40MHz)_ANT 0-AP and Bridge Mode

Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Required Limit	Result
38	5190	40.84	14.04	≤30	Pass
46	5230	73.64	20.46	≤30	Pass

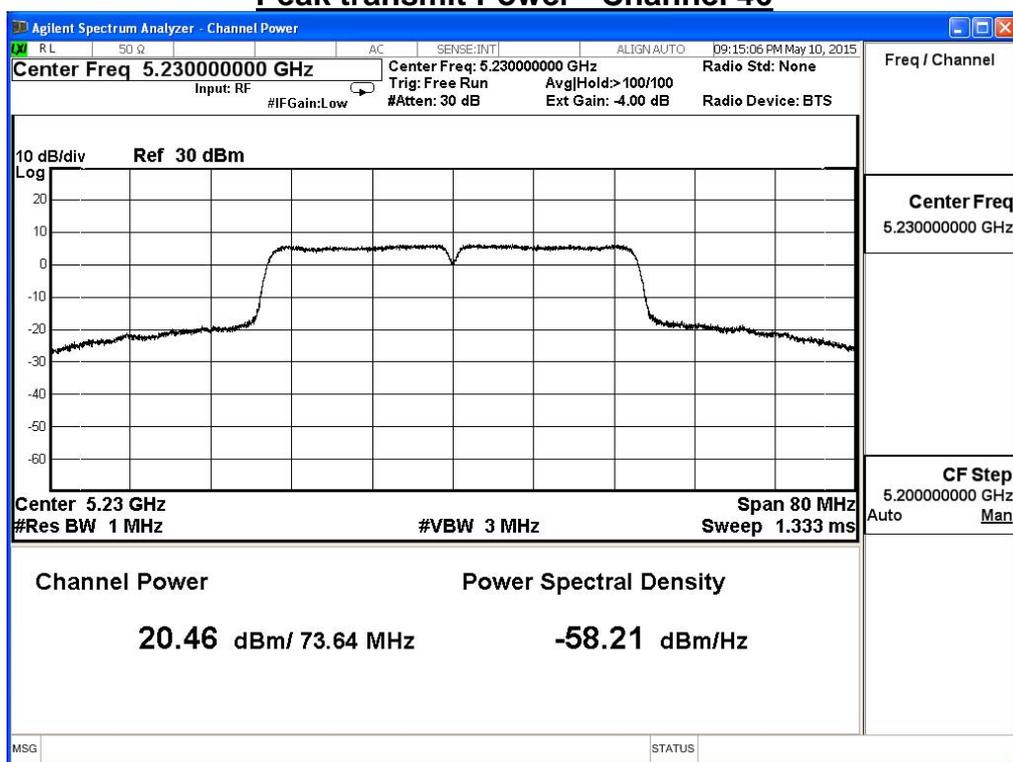
The worst emission of data rate is 13.5Mbps.

Peak Power Output (dBm)										Required Limit
MCS Index	0	1	2	3	4	5	6	7		
Channel No	Frequency (MHz)	Data Rate								
		13.5	27	40.5	54	81	108	121.5	135	
38	5190	14.04	14.01	13.98	13.94	13.91	13.87	13.85	13.79	≤30
46	5230	20.46	--	--	--	--	--	--	--	

Peak transmit Power - Channel 38



Peak transmit Power - Channel 46



Product	Dual-band Wireless-AC750 Range Extender		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/20	Test Site	SR7

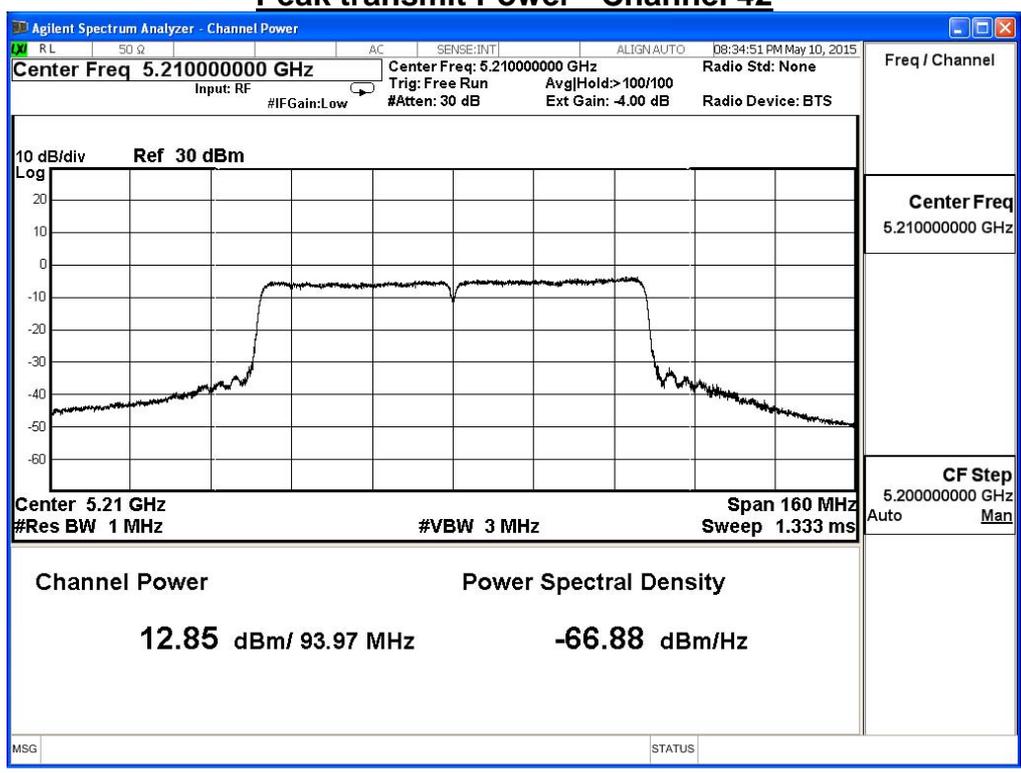
IEEE 802.11ac(80MHz)_ANT 0-AP and Bridge Mode

Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Required Limit	Result
42	5210	93.97	12.850	≤30	Pass

The worst emission of data rate is 29.3 Mbps

Peak Power Output (dBm)											
MCS Index		0	1	2	3	4	5	6	7	8	9
Channel No	Frequency (MHz)	Data Rate									
		29.3	58.5	87.8	117	175.5	234	263.3	292.5	351	390
42	5210	8.58	8.50	8.45	8.41	8.38	8.32	8.24	8.21	8.18	8.11

Peak transmit Power - Channel 42



5. Peak Power Spectrum Density

5.1. Test Equipment

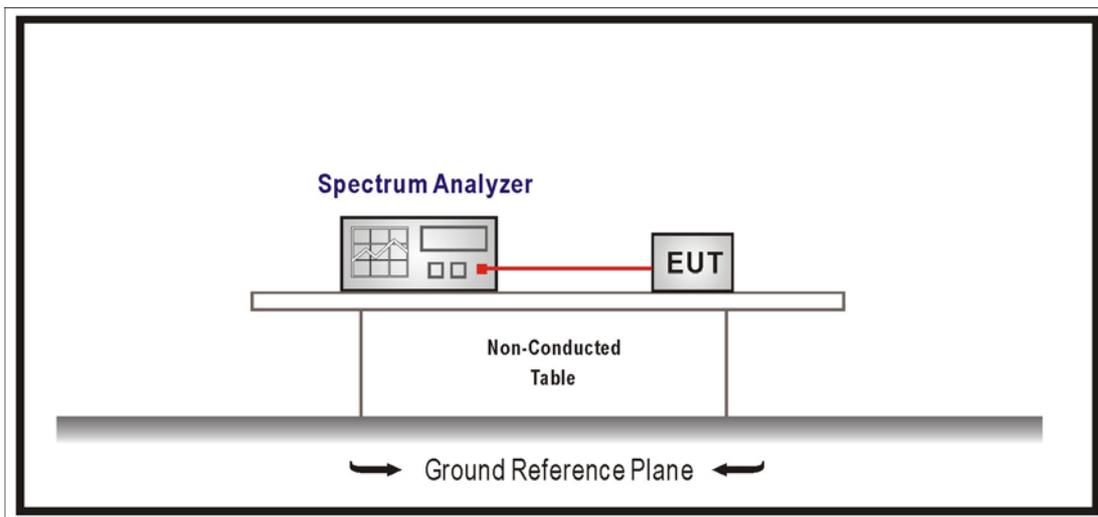
The following test equipments are used during the radiated emission tests:

Peak Power Spectrum Density / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2015/07/14

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

5.2. Test Setup



5.3. Limits

1. For the band 5.15-5.25 GHz, the peak power spectral density shall not exceed 17 dBm in any 1MHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
2. For the band 5.25-5.35 GHz, the peak power spectral density shall not exceed 11 dBm in any 1-MHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
3. For the band 5.725-5.850 GHz, the peak power spectral density shall not exceed 30 dBm in any 500KHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.

5.4. Test Procedure

The EUT was setup to ANSI C63.4, 2009; tested to U-NII test procedure of KDB 789033 for compliance to FCC 47CFR Subpart E requirements.

For Band1 : Set RBW=1MHz, VBW=3MHz with RMS detector. The PPSD is the highest level found across the emission in any 1-MHz band after 100 sweeps of averaging.

For Band4 : Set RBW=500KHz, VBW=1.5MHz with RMS detector. The PPSD is the highest level found across the emission in any 500KHz band after 100 sweeps of averaging.

5.5. Uncertainty

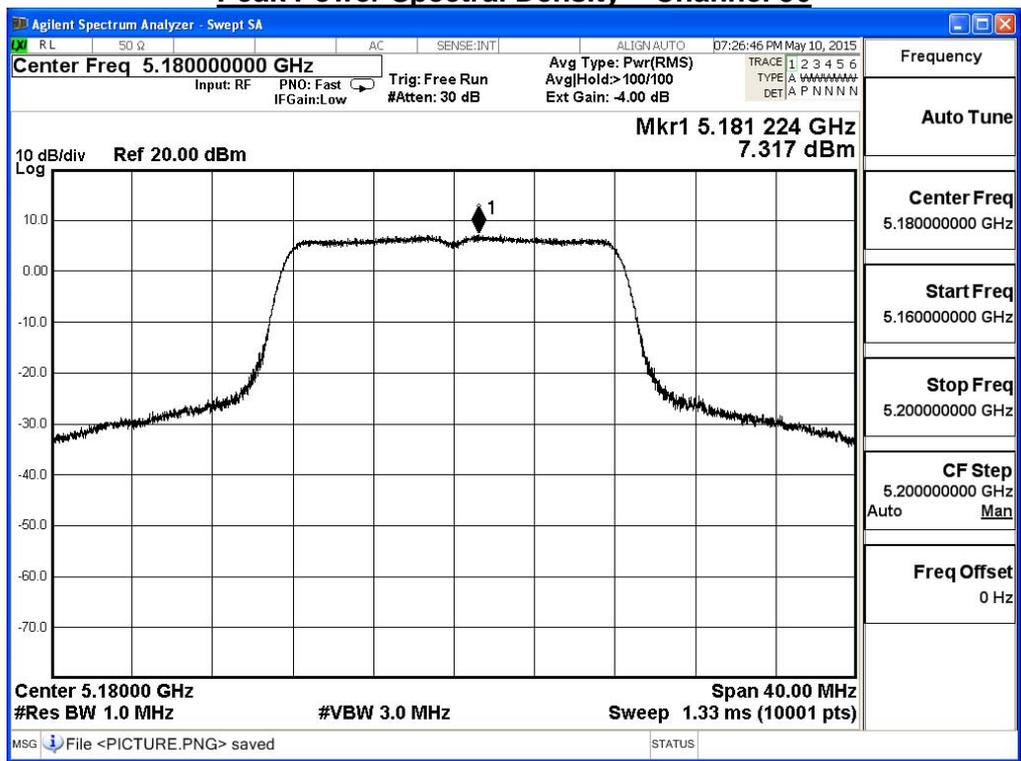
The measurement uncertainty is defined as ± 1.27 dB

5.6. Test Result

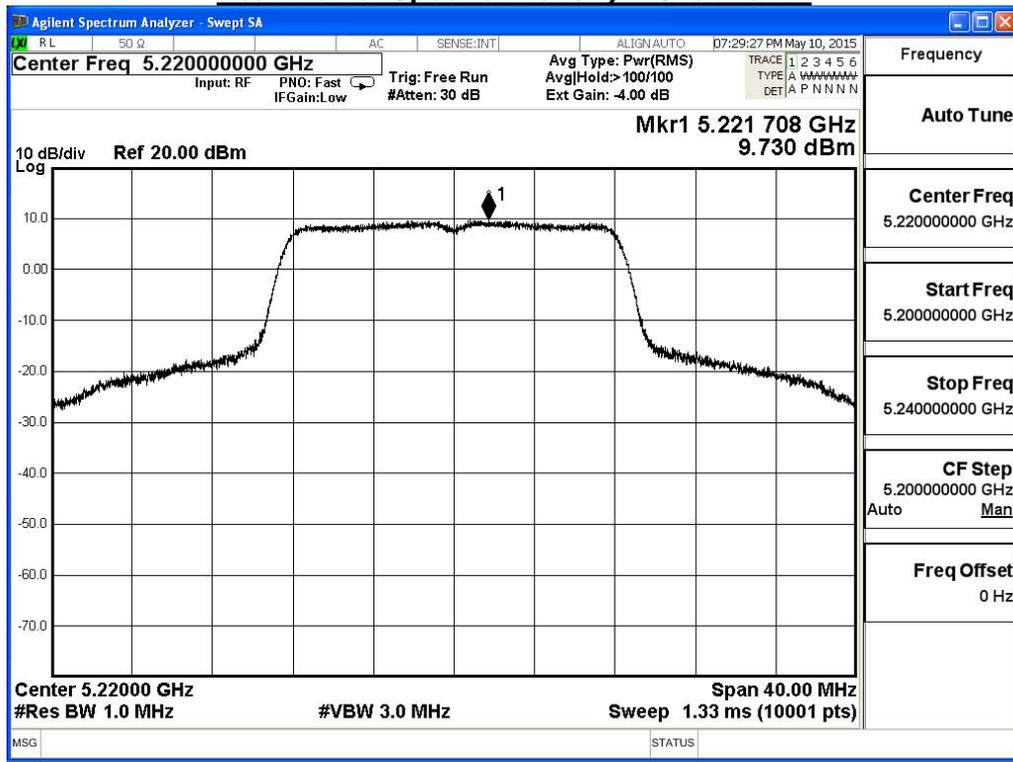
Product	Dual-band Wireless-AC750 Range Extender		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/21	Test Site	SR7

IEEE 802.11a-AP and Bridge Mode				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)	Result
36	5180	7.317	≤17	Pass
44	5220	9.730	≤17	Pass
48	5240	9.803	≤17	Pass

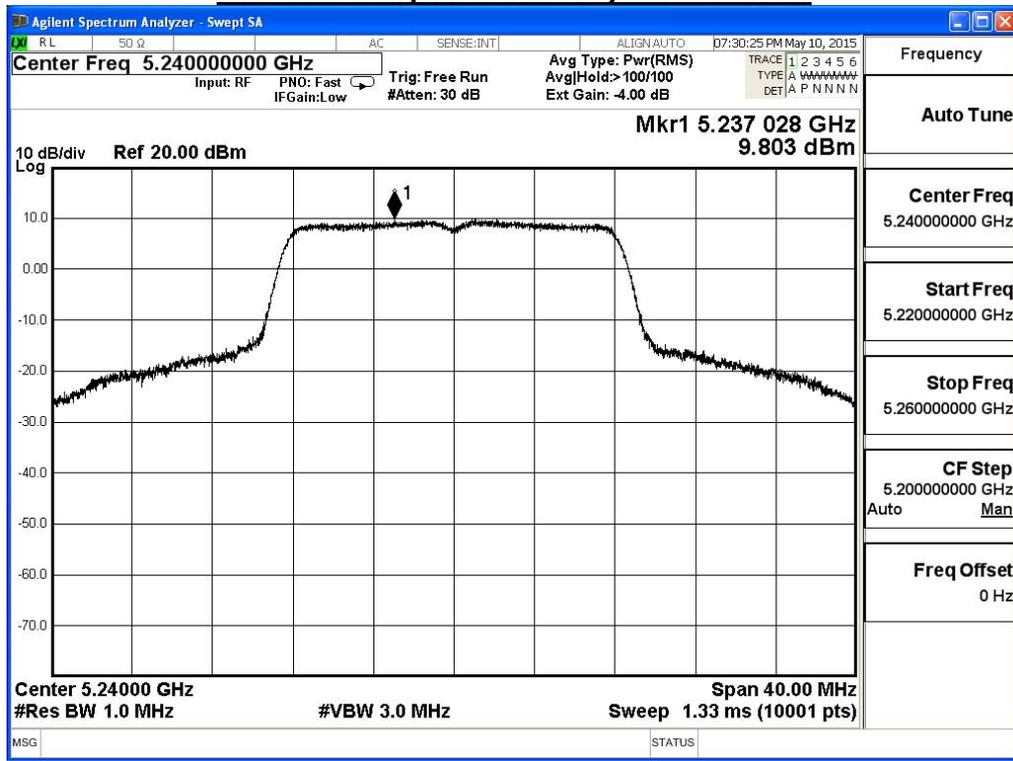
Peak Power Spectral Density – Channel 36



Peak Power Spectral Density – Channel 44



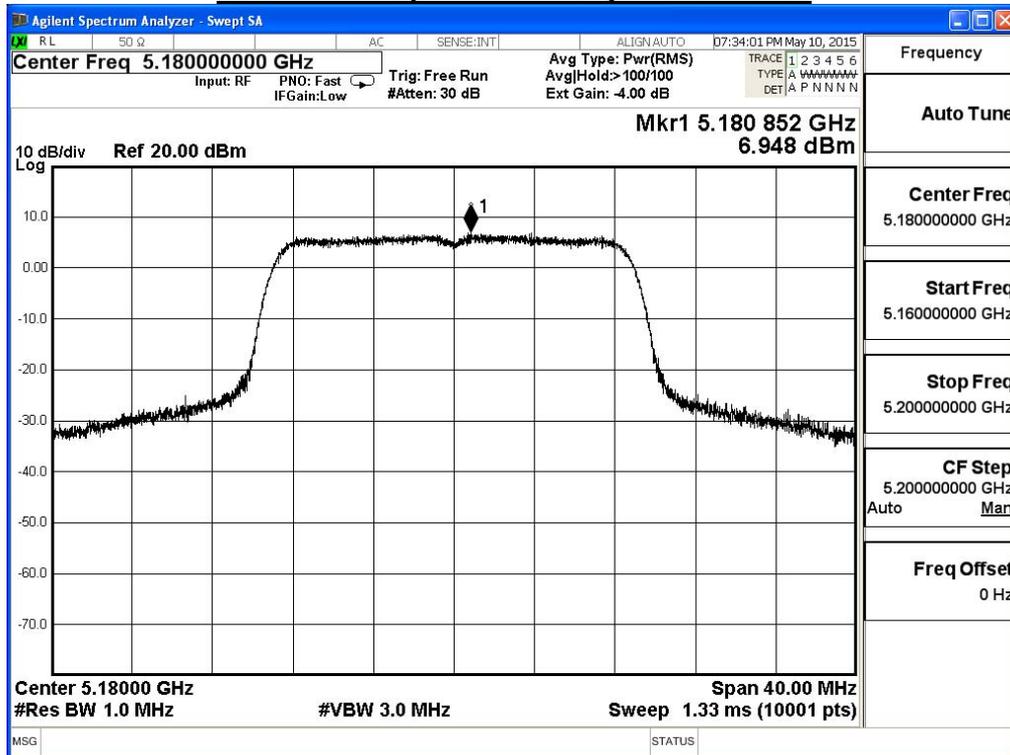
Peak Power Spectral Density – Channel 48



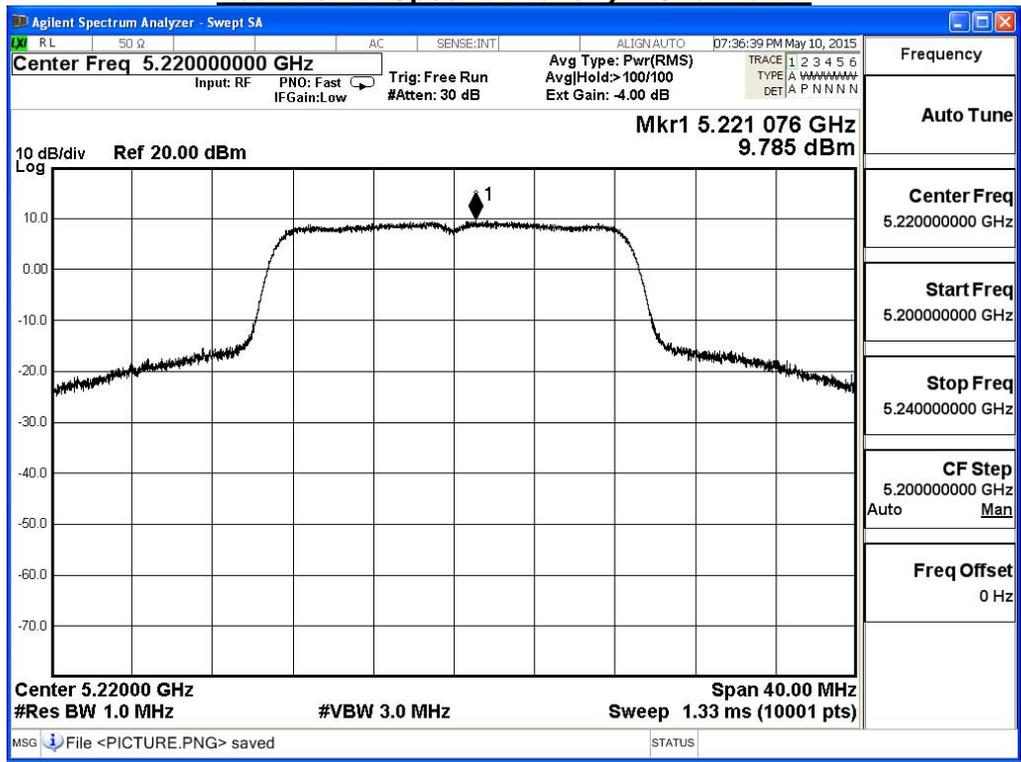
Product	Dual-band Wireless-AC750 Range Extender		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/21	Test Site	SR7

IEEE 802.11n_20M(ANT 0) -AP and Bridge Mode				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)	Result
36	5180	6.948	≤17	Pass
44	5220	9.785	≤17	Pass
48	5240	9.874	≤17	Pass

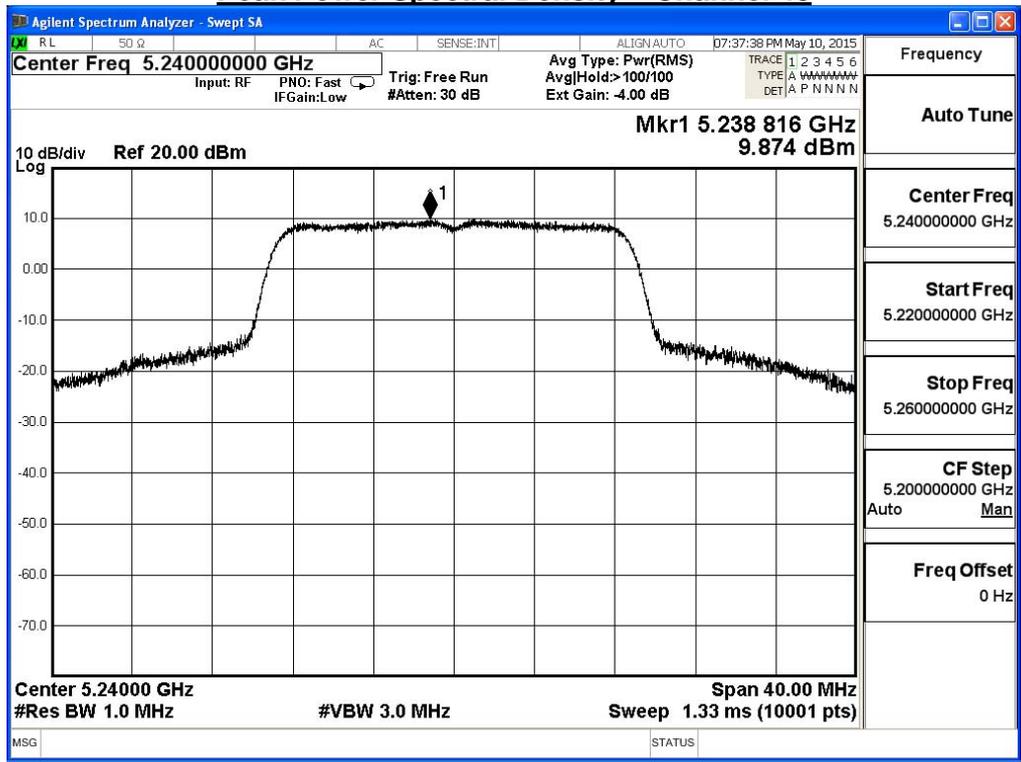
Peak Power Spectral Density – Channel 36



Peak Power Spectral Density – Channel 44



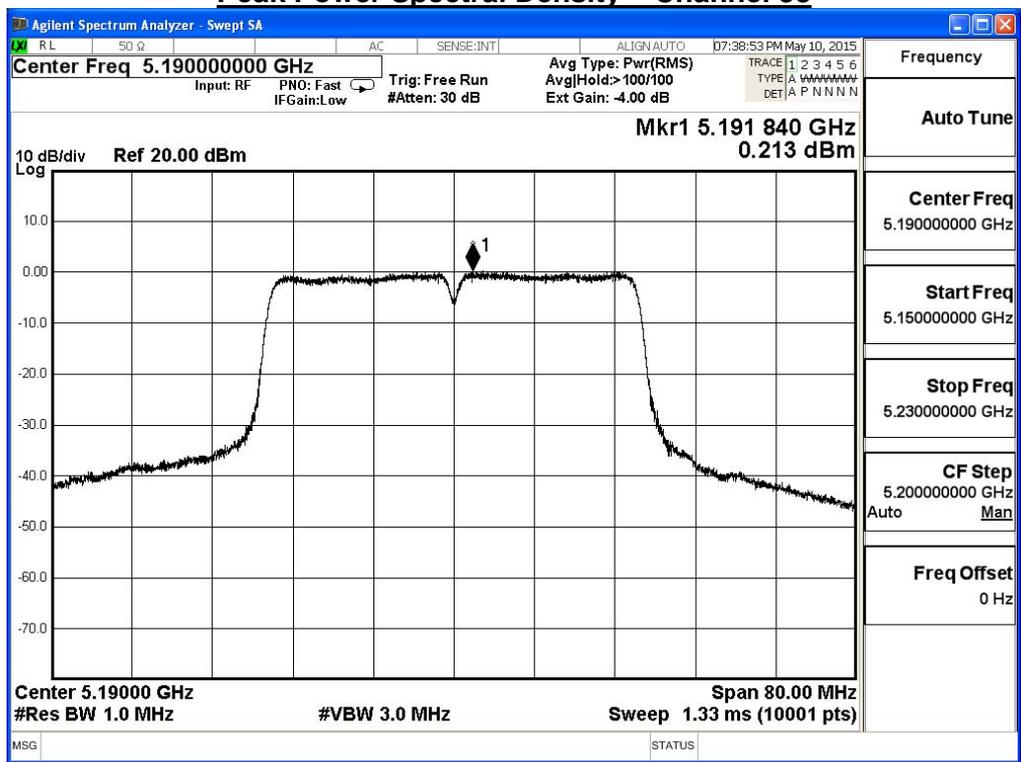
Peak Power Spectral Density – Channel 48



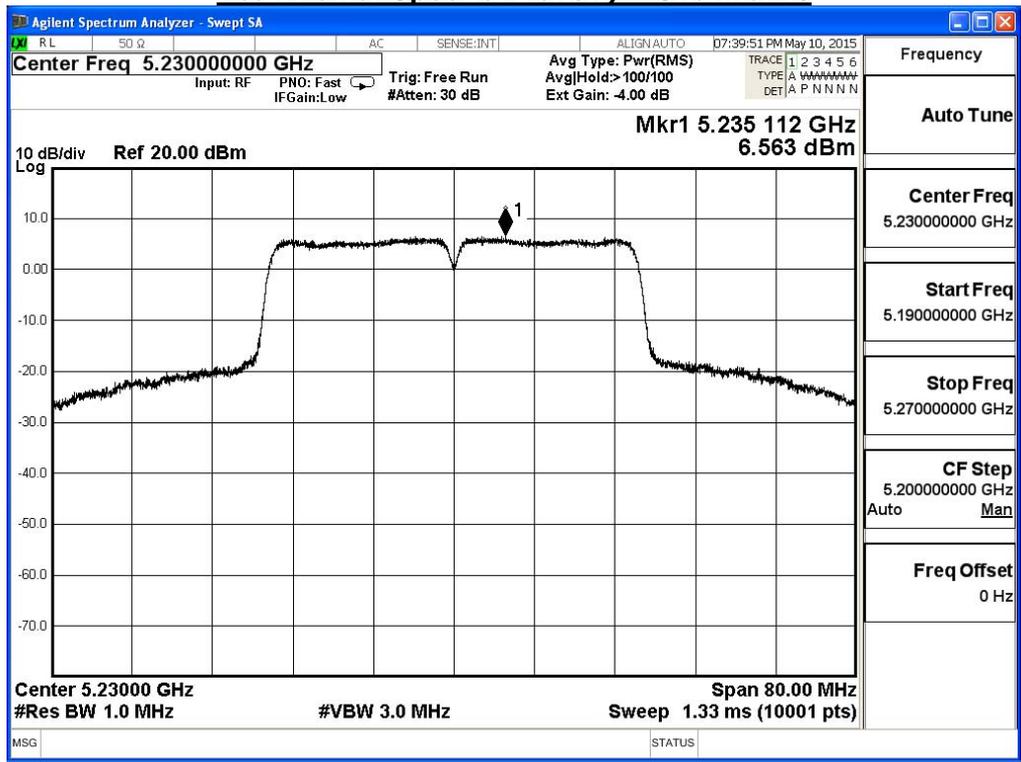
Product	Dual-band Wireless-AC750 Range Extender		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/21	Test Site	SR7

IEEE 802.11n_40M(ANT 0) -AP and Bridge Mode				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)	Result
38	5190	0.213	≤17	Pass
46	5230	6.563	≤17	Pass

Peak Power Spectral Density – Channel 38



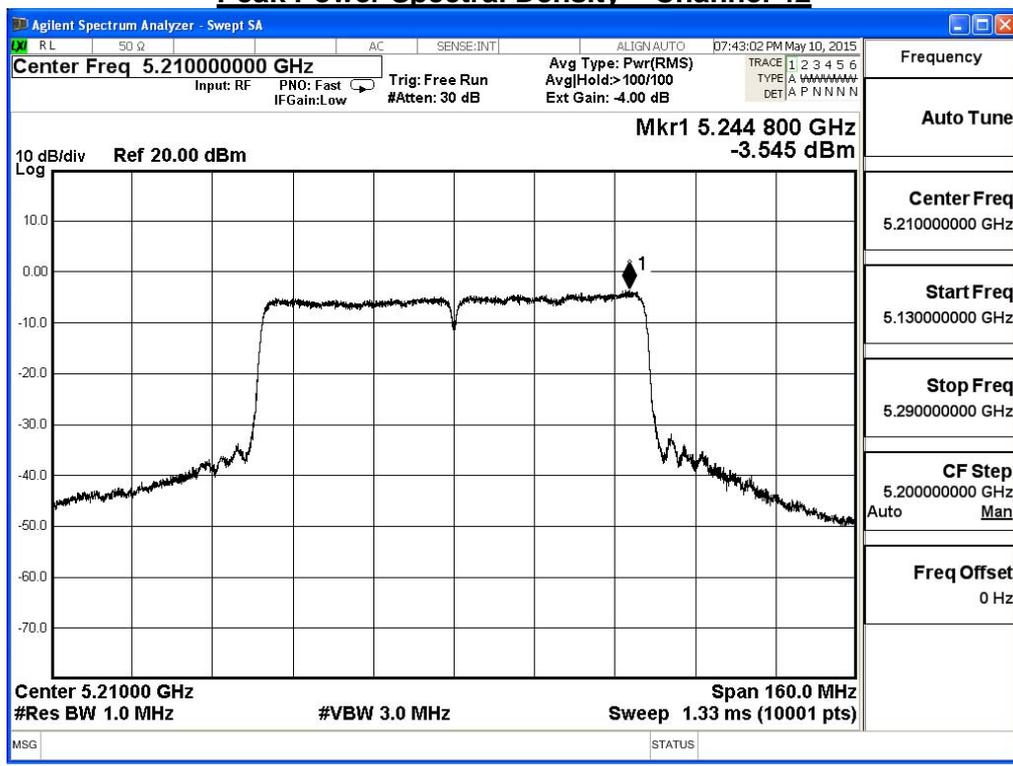
Peak Power Spectral Density – Channel 46



Product	Dual-band Wireless-AC750 Range Extender		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/21	Test Site	SR7

IEEE 802.11ac_80M(ANT 0) -AP and Bridge Mode				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)	Result
42	5210	-3.545	≤17	Pass

Peak Power Spectral Density – Channel 42



6. Radiated Emission

6.1. Test Equipment

The following test equipments are used during the radiated emission test:

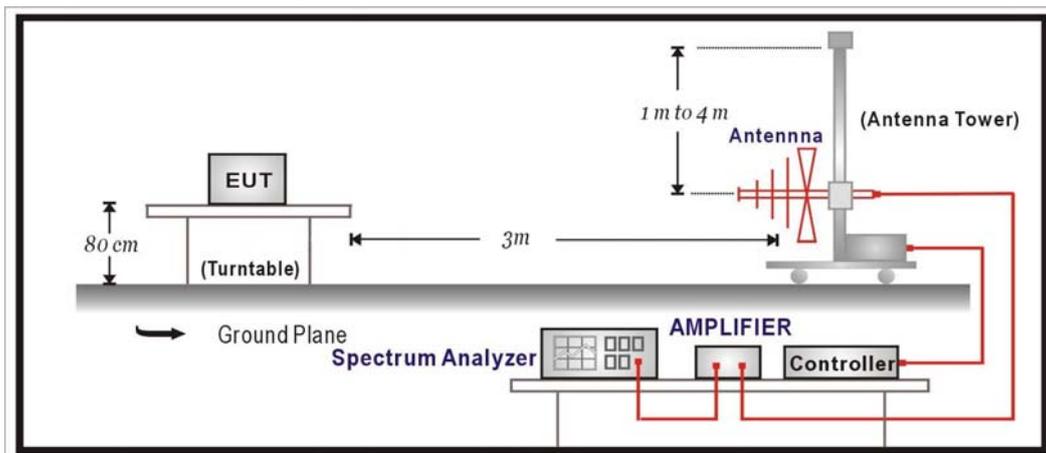
Radiated Emission / CB1

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Bilog Antenna	SCHAFFNER	CBL6112B	2895(CB1)	2015/08/14
Double Ridged Guide Horn Antenna	Schwarzback	BBHA 9120	D743	2016/01/26
Pre-Amplifier	EMCI	EMC0031835	980233	2016/01/18
Pre-Amplifier	QuieTek	AP-025C	CHM-0706049	2016/01/18
Spectrum Analyzer	Agilent	E4440A	MY46187335	2016/01/07
k Type Cable	Huber Suhner	Sucoflex 102	25623/2	2016/01/26

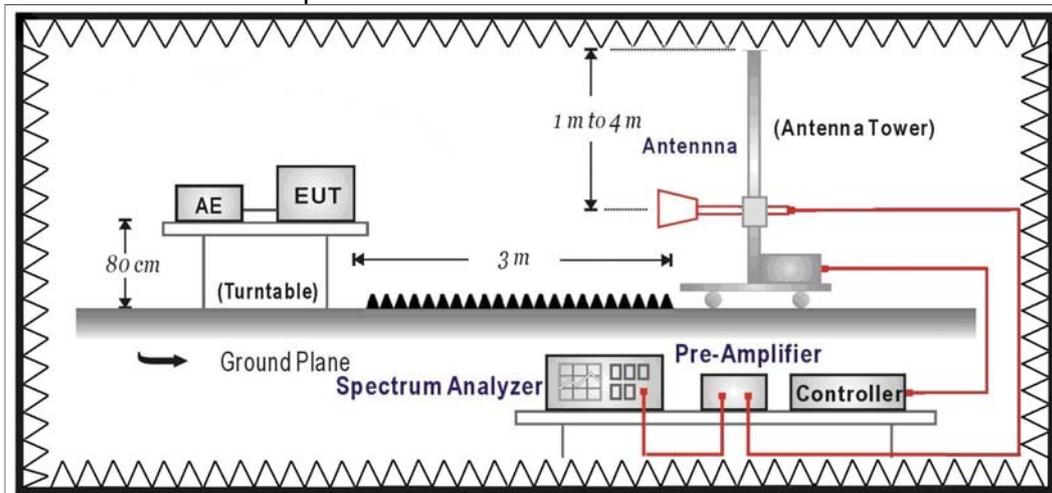
Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

6.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



6.3. Limits

➤ General Radiated Emission Limits

The provisions of Section 15.205 of this part apply to intentional radiators operating under this section. Radiated emissions which fall in the restricted bands, as defined in Section 15.205, must also comply with the radiated emission limits specified in Section 15.209:

FCC Part 15 Subpart C Paragraph 15.209 Limits		
Frequency MHz	uV/m @3m	dBuV/m@3m
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Remark:

1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

➤ Unwanted Emission out of the restricted bands Limits

FCC Part 15 Subpart C Paragraph 15.407(b) Limits		
Frequency (MHz)	EIRP Limit (dBm)	Equivalent Field Strength (dBuV/m@3m)
5150~5250	-27	68.3
5250~5350	-27	68.3
5470~5725	-27	68.3
5725~5850	-27 (Note1)	68.3
	-17 (Note2)	78.3

Remark:

1. For frequencies more than 10 MHz above or below the band edges.
2. For frequency range from the band edges to 10 MHz above or below the band edges.
3. $uV/m = \frac{1000000\sqrt{30 \times EIRP}}{3}$, RF Voltage (dBuV/m) = 20 log RF Voltage (uV/m)

6.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10 on radiated measurement.

The additional notch filter below 1GHz was used to measure the level of harmonics radiated emission during field strength of harmonics measurement.

The bandwidth below 1GHz setting on the field strength meter is 120 KHz, above 1GHz are 1 MHz.

The frequency range from 30MHz to 10th harmonics is checked.

6.5. Uncertainty

The measurement uncertainty

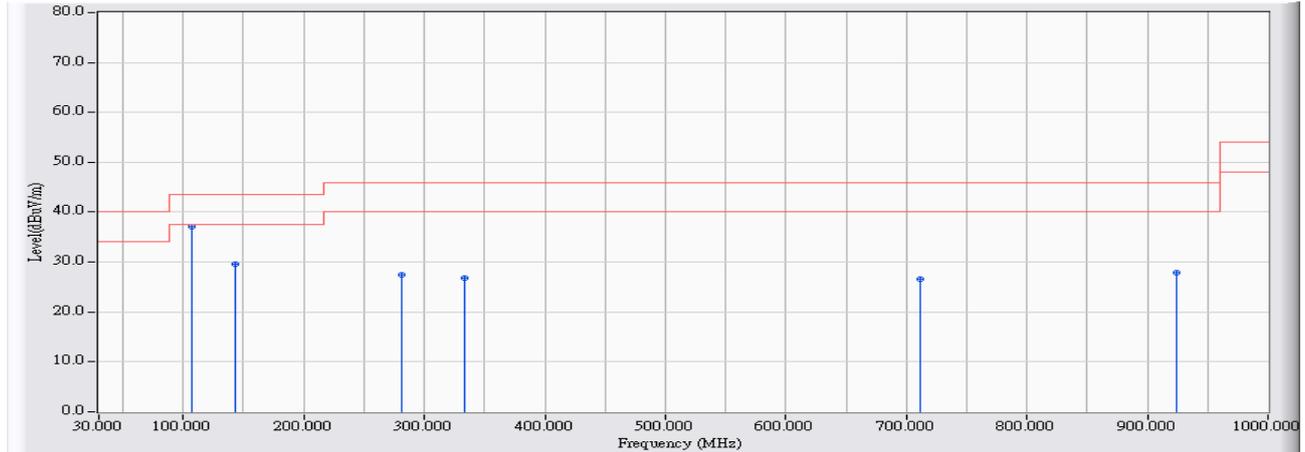
30MHz~1GHz as $\pm 3.43\text{dB}$

1GHz~26.5GHz as $\pm 3.65\text{dB}$

6.6. Test Result

30MHz-1GHz Spurious

Site : CB1	Time : 2015/05/09 - 14:43
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11a_5220MHz

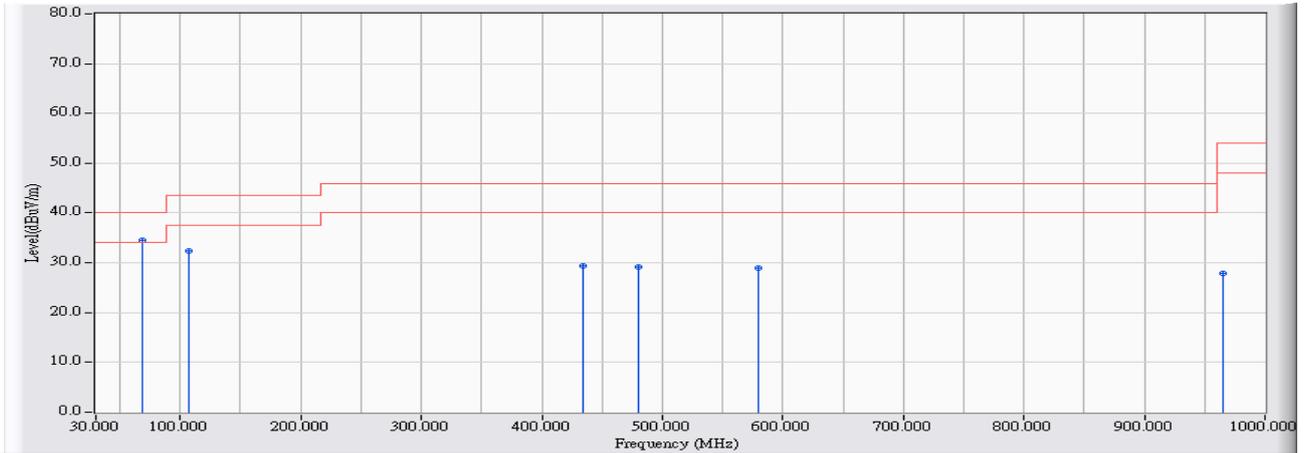


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	106.592	10.165	26.995	37.159	-6.341	43.500	QUASPEAK
2		142.949	9.985	19.529	29.514	-13.986	43.500	QUASPEAK
3		281.104	12.423	15.058	27.482	-18.518	46.000	QUASPEAK
4		333.943	13.567	13.346	26.914	-19.086	46.000	QUASPEAK
5		711.569	18.134	8.452	26.586	-19.414	46.000	QUASPEAK
6		923.893	19.668	8.161	27.828	-18.172	46.000	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	Time : 2015/05/09 - 12:45
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11a_5220MHz

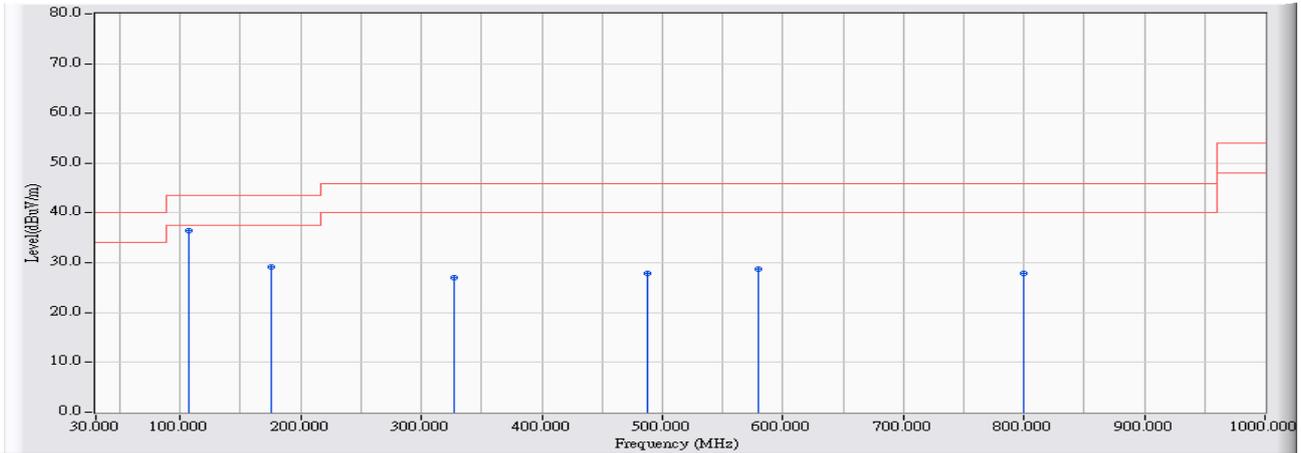


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	68.781	5.555	29.058	34.613	-5.387	40.000	QUASPEAK
2		106.592	10.165	22.288	32.452	-11.048	43.500	QUASPEAK
3		434.773	15.860	13.457	29.317	-16.683	46.000	QUASPEAK
4		479.855	16.774	12.432	29.206	-16.794	46.000	QUASPEAK
5		579.715	17.422	11.573	28.995	-17.005	46.000	QUASPEAK
6		964.613	20.000	7.807	27.807	-26.193	54.000	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	Time : 2015/05/09 - 14:47
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11n(20MHz)_5220MHz

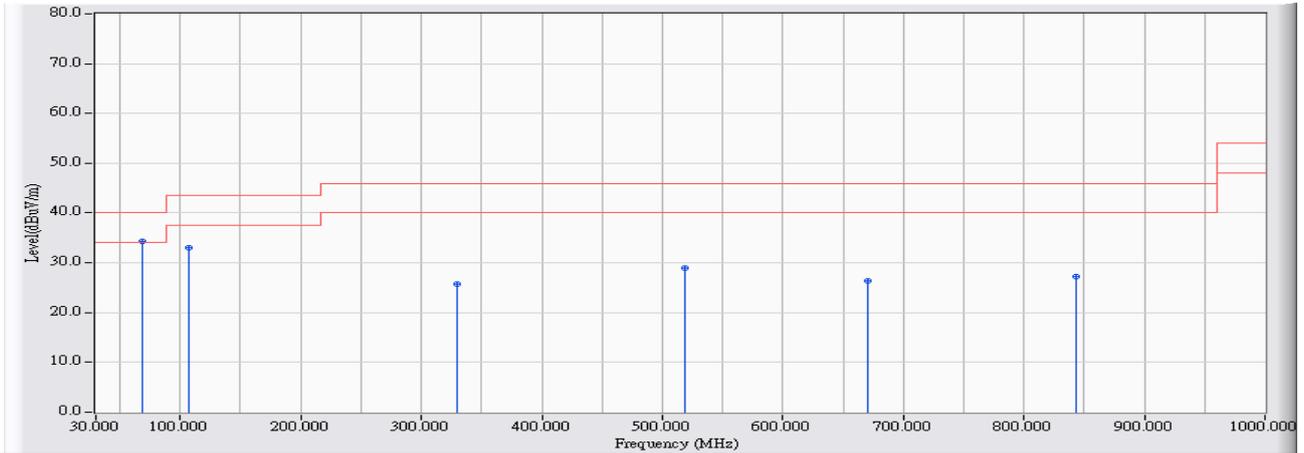


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	106.592	10.165	26.332	36.496	-7.004	43.500	QUASPEAK
2		175.427	8.461	20.755	29.216	-14.284	43.500	QUASPEAK
3		327.641	13.416	13.551	26.967	-19.033	46.000	QUASPEAK
4		487.126	16.922	11.053	27.975	-18.025	46.000	QUASPEAK
5		579.715	17.422	11.414	28.836	-17.164	46.000	QUASPEAK
6		799.795	19.211	8.700	27.910	-18.090	46.000	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	Time : 2015/05/09 - 12:48
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11n(20M)_5220MHz

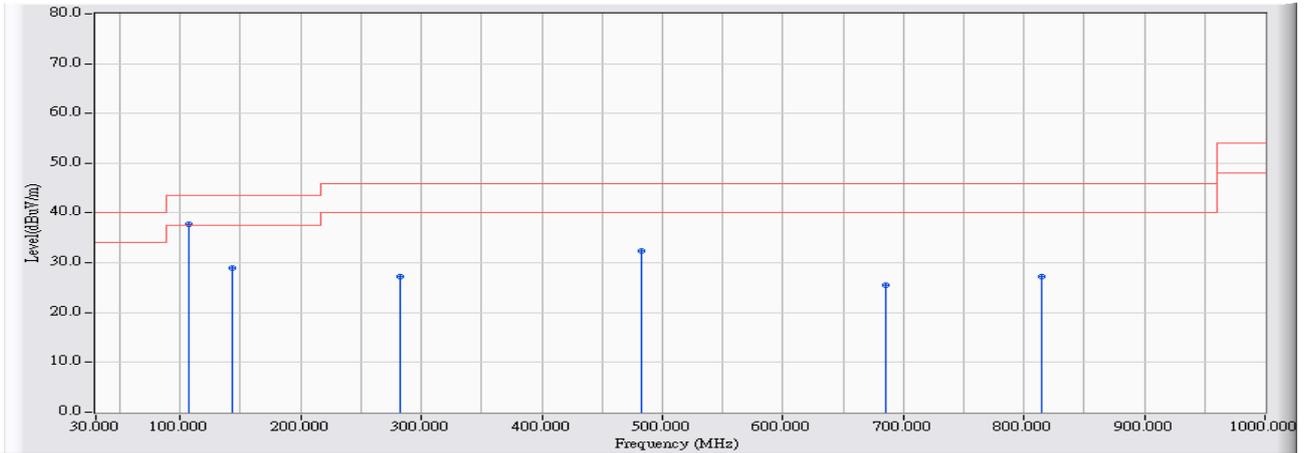


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	68.781	5.555	28.843	34.398	-5.602	40.000	QUASPEAK
2		106.592	10.165	22.949	33.113	-10.387	43.500	QUASPEAK
3		330.065	13.474	12.329	25.803	-20.197	46.000	QUASPEAK
4		518.636	17.239	11.791	29.030	-16.970	46.000	QUASPEAK
5		669.880	17.839	8.498	26.337	-19.663	46.000	QUASPEAK
6		843.908	19.328	7.873	27.200	-18.800	46.000	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	Time : 2015/05/09 - 14:50
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11n(40MHz)_5230MHz

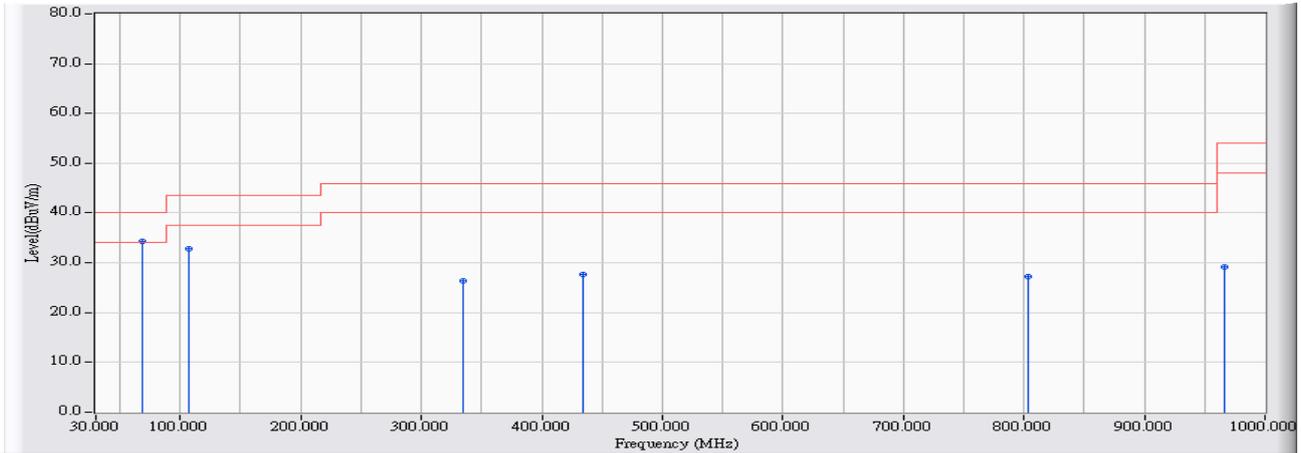


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	106.592	10.165	27.656	37.820	-5.680	43.500	QUASPEAK
2		142.949	9.985	19.023	29.008	-14.492	43.500	QUASPEAK
3		282.559	12.449	14.737	27.186	-18.814	46.000	QUASPEAK
4		483.248	16.843	15.464	32.307	-13.693	46.000	QUASPEAK
5		684.908	17.916	7.710	25.626	-20.374	46.000	QUASPEAK
6		814.823	19.252	8.068	27.320	-18.680	46.000	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	Time : 2015/05/09 - 12:54
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11n(40MHz)_5230MHz

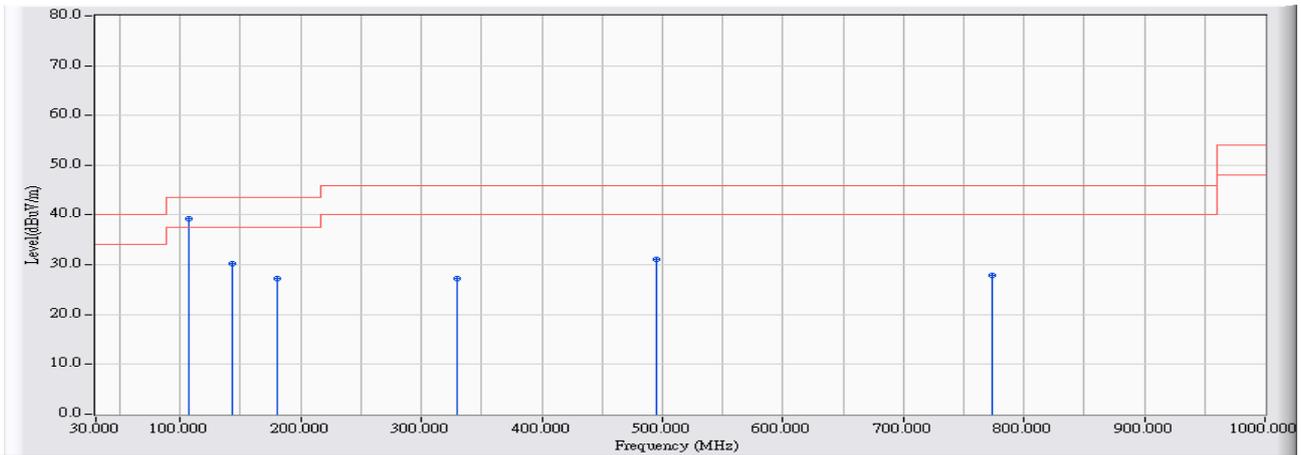


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	68.781	5.555	28.834	34.389	-5.611	40.000	QUASPEAK
2		106.592	10.165	22.550	32.714	-10.786	43.500	QUASPEAK
3		334.428	13.580	12.873	26.452	-19.548	46.000	QUASPEAK
4		433.803	15.840	11.771	27.611	-18.389	46.000	QUASPEAK
5		803.188	19.222	7.968	27.190	-18.810	46.000	QUASPEAK
6		966.552	20.016	9.089	29.105	-24.895	54.000	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	Time : 2015/05/09 - 14:55
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11ac(80MHz)_5210MHz

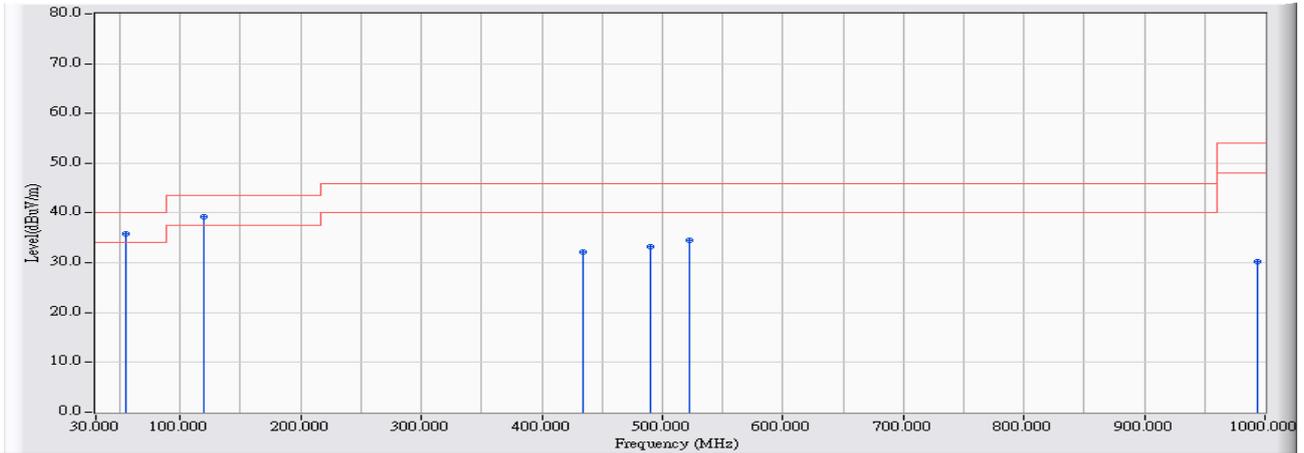


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	106.592	10.165	29.080	39.244	-4.256	43.500	QUASPEAK
2		142.949	9.985	20.276	30.261	-13.239	43.500	QUASPEAK
3		180.760	8.257	19.060	27.317	-16.183	43.500	QUASPEAK
4		329.095	13.451	13.799	27.250	-18.750	46.000	QUASPEAK
5		494.883	17.079	14.015	31.094	-14.906	46.000	QUASPEAK
6		773.133	18.886	9.029	27.915	-18.085	46.000	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	Time : 2015/05/09 - 13:00
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11ac(80MHz)_5210MHz



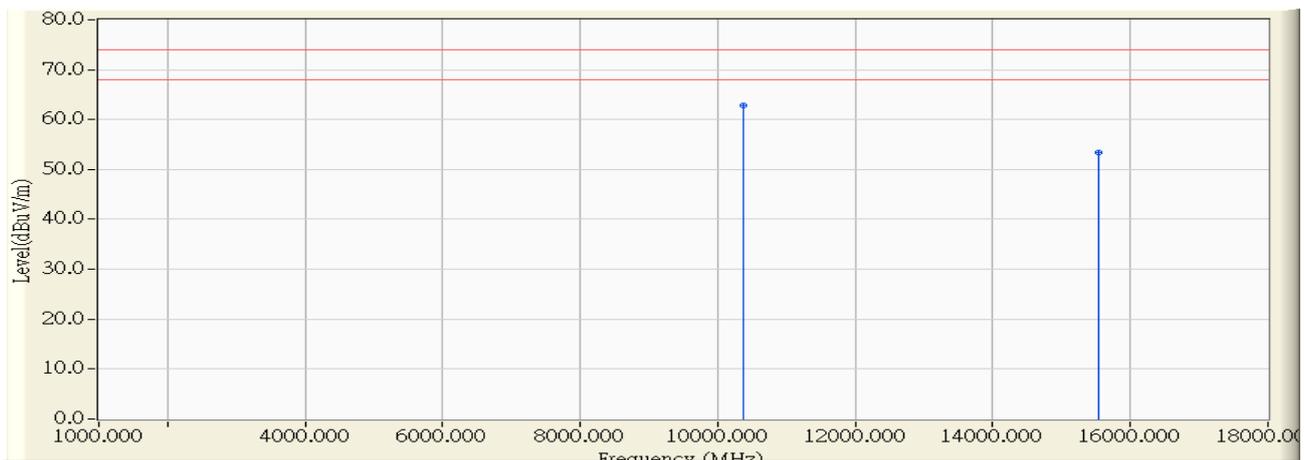
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	55.207	6.099	29.675	35.774	-4.226	40.000	QUASPEAK
2		119.680	10.794	28.445	39.239	-4.261	43.500	QUASPEAK
3		433.803	15.840	16.261	32.101	-13.899	46.000	QUASPEAK
4		490.035	16.981	16.165	33.146	-12.854	46.000	QUASPEAK
5		522.514	17.250	17.221	34.471	-11.529	46.000	QUASPEAK
6		994.183	20.242	10.089	30.331	-23.669	54.000	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Harmonic & Spurious:

Site : CB1	Time : 2015/05/07 - 21:01
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11a_Ch36



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	10361.000	10.135	52.720	62.855	-11.145	74.000	PEAK
2		15542.659	11.088	42.390	53.477	-20.523	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 21:01
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11a_Ch36

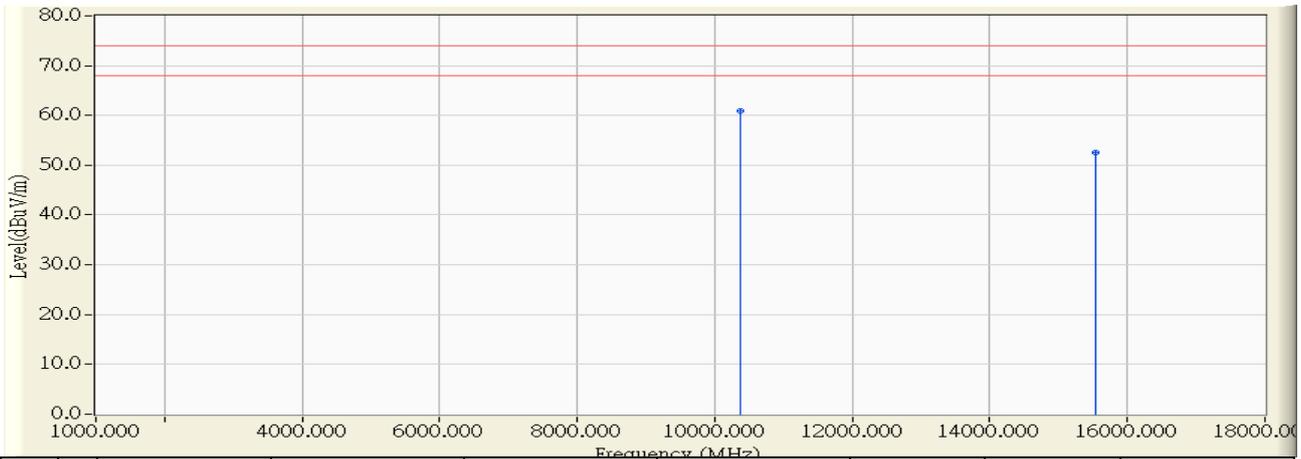


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	15539.840	11.091	28.370	39.460	-14.540	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 21:14
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11a



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	10361.000	9.513	51.330	60.843	-13.157	74.000	PEAK
2		15541.550	11.088	41.490	52.578	-21.422	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 21:14
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11a_Ch36

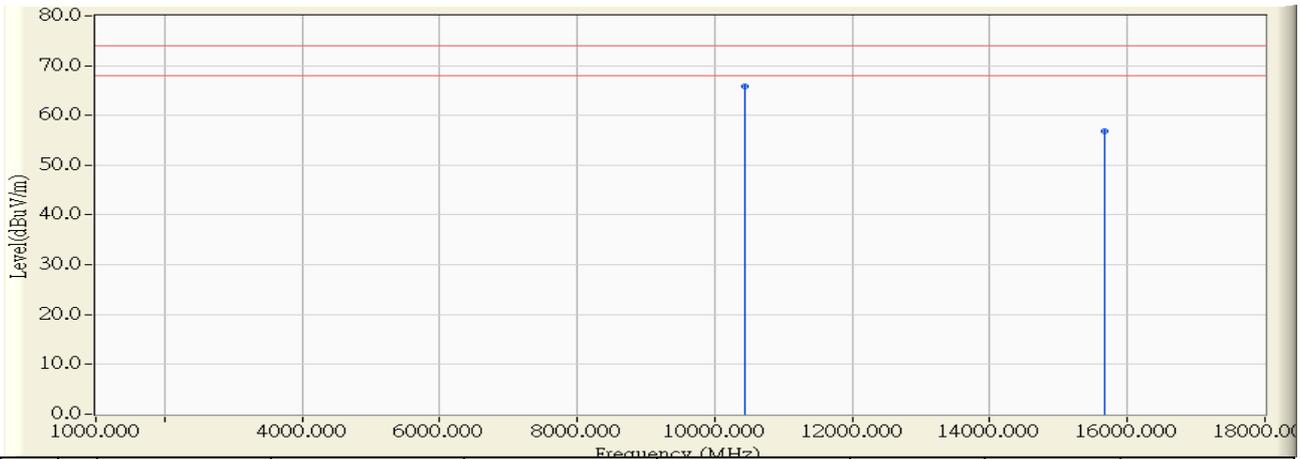


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	15539.980	11.090	26.910	38.000	-16.000	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 21:27
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11a_Ch44

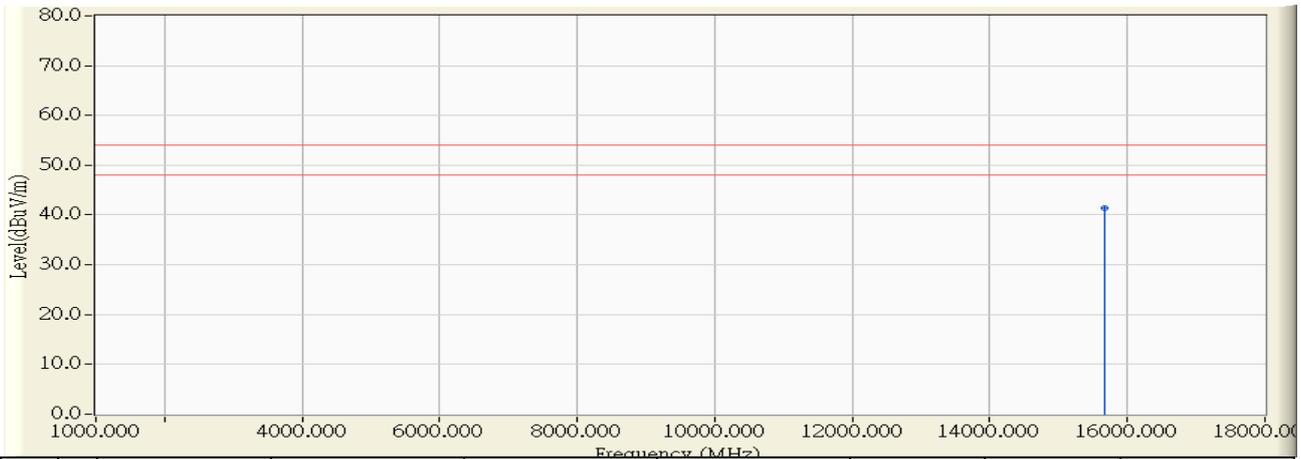


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	10444.778	10.052	55.790	65.843	-8.157	74.000	PEAK
2		15657.561	10.959	45.850	56.809	-17.191	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 21:33
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11a_Ch44

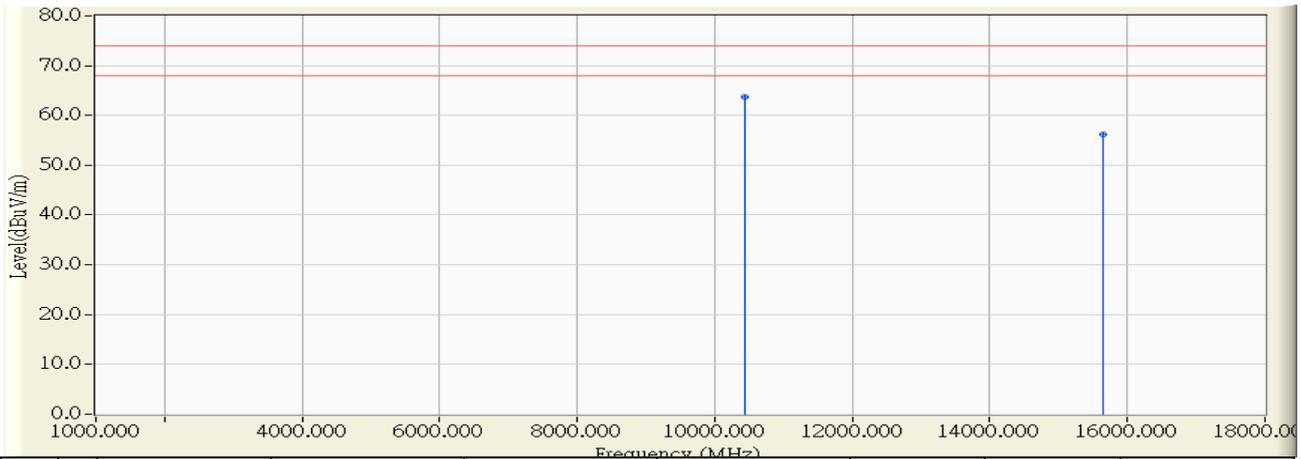


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	15662.419	10.953	30.420	41.374	-12.626	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 21:42
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11a_Ch44



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	10444.998	9.514	54.180	63.694	-10.306	74.000	PEAK
2		15655.902	10.960	45.320	56.281	-17.719	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 21:43
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11a_Ch44

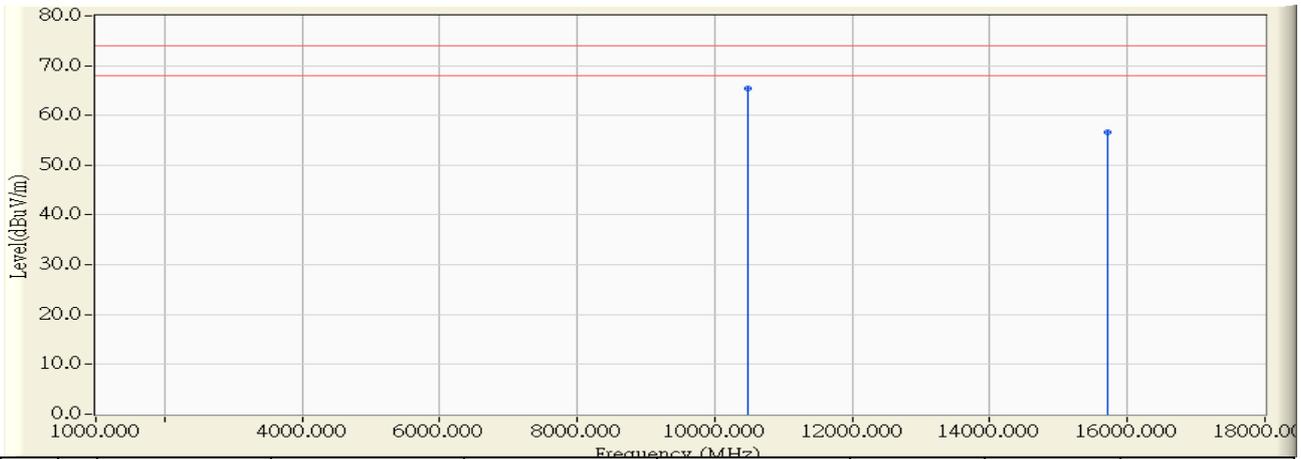


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	15659.680	10.957	29.600	40.557	-13.443	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 22:00
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11a_Ch48



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	10484.898	10.029	55.490	65.519	-8.481	74.000	PEAK
2		15712.884	10.897	45.830	56.727	-17.273	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 22:11
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11a_Ch48

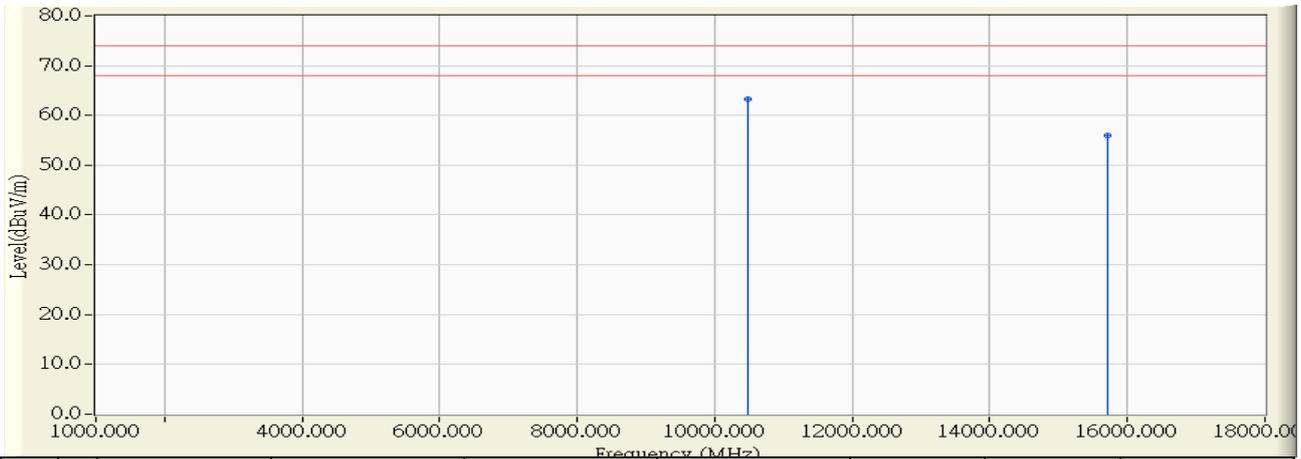


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	15719.740	10.890	31.220	42.110	-11.890	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 22:18
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11a_Ch48



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	10484.678	9.530	53.750	63.281	-10.719	74.000	PEAK
2		15717.780	10.893	45.070	55.962	-18.038	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 22:20
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11a_Ch48

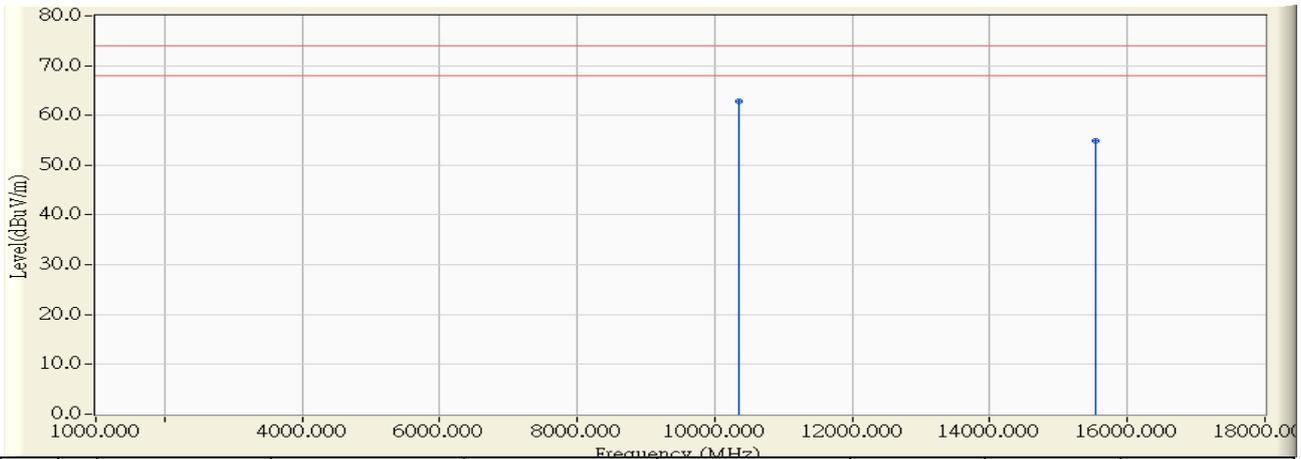


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	15719.560	10.890	29.520	40.410	-13.590	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 22:48
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11n(20MHz)_Ch36



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	10360.620	10.136	52.800	62.935	-11.065	74.000	PEAK
2		15534.000	11.097	43.750	54.847	-19.153	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 22:49
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11n(20MHz)_Ch36

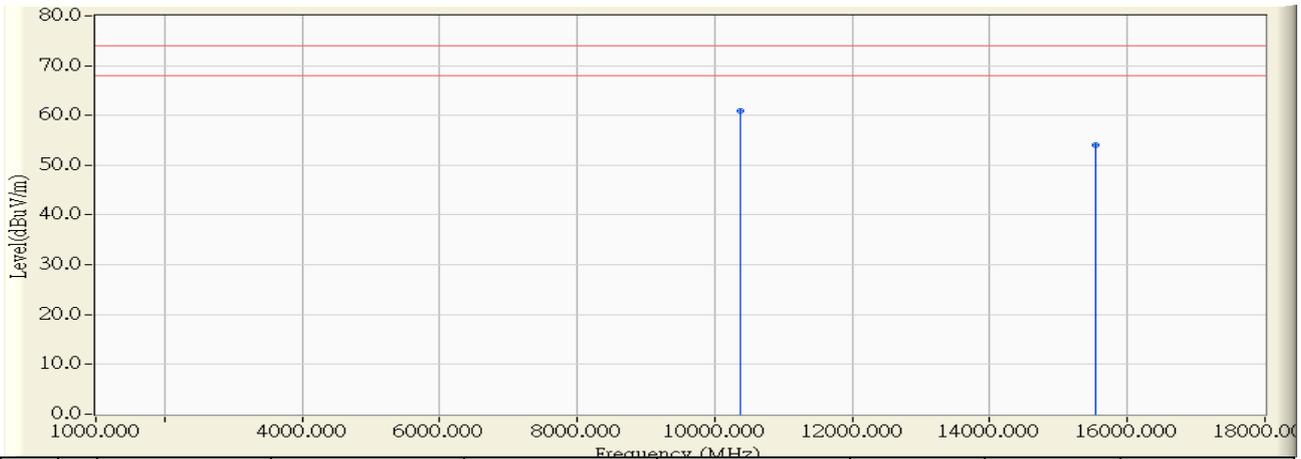


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	15539.700	11.091	28.360	39.451	-14.549	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 22:53
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11n(20MHz)_Ch36

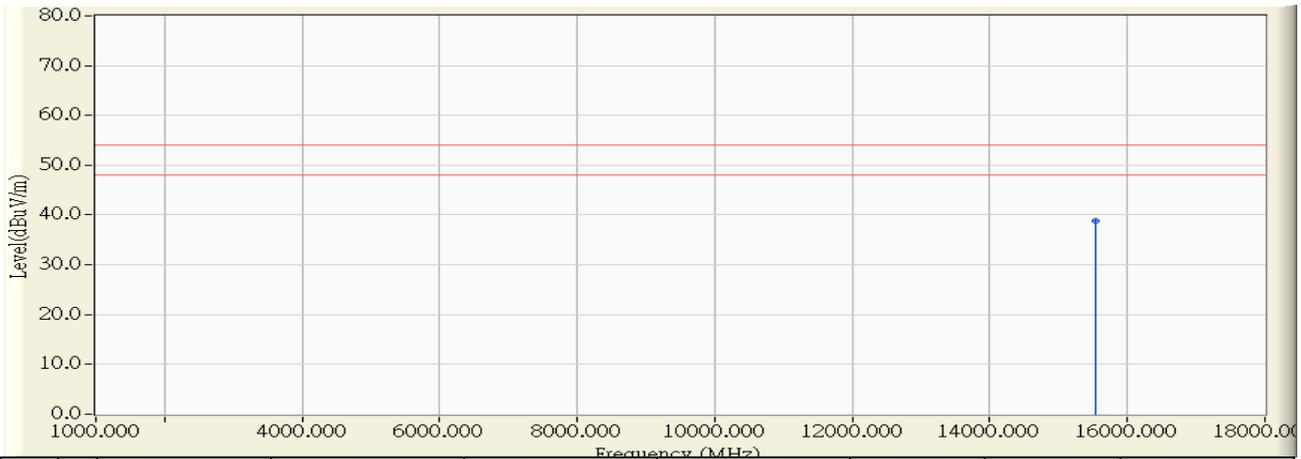


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	10361.160	9.513	51.300	60.813	-13.187	74.000	PEAK
2		15542.919	11.087	43.010	54.097	-19.903	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 22:53
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11n(20MHz)_Ch36

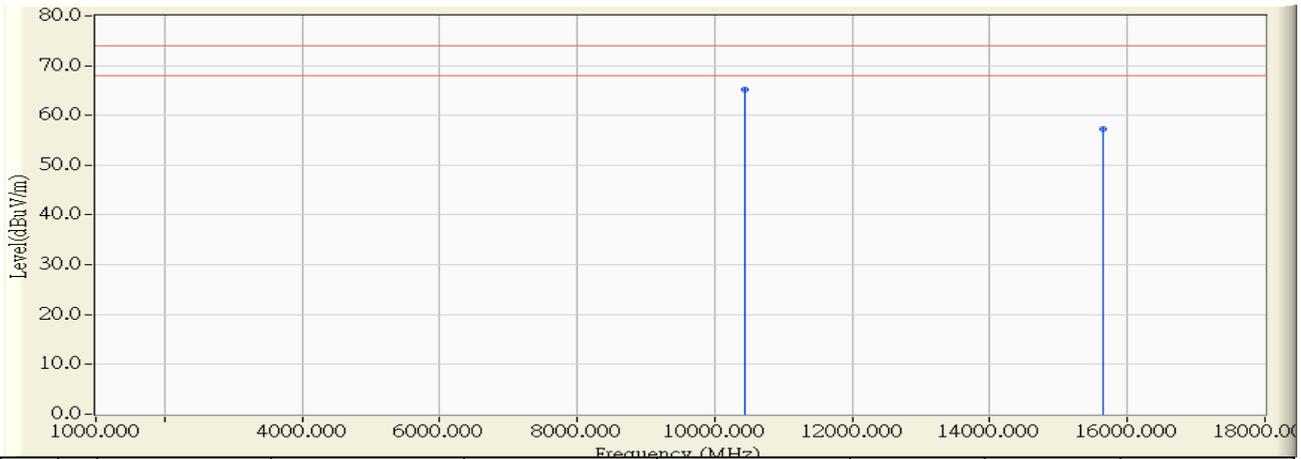


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	15539.980	11.090	27.720	38.810	-15.190	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 23:02
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11n(20MHz)_Ch44

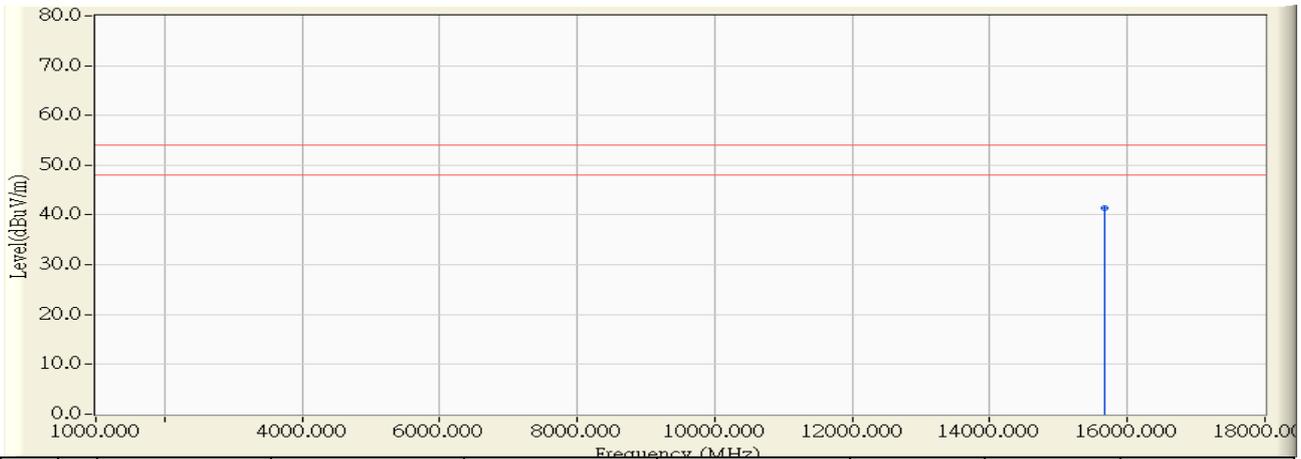


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		10438.601	10.058	55.160	65.219	-8.781	74.000	PEAK
2	*	15656.082	10.961	46.270	57.231	3.231	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 23:11
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11n(20MHz)_Ch44

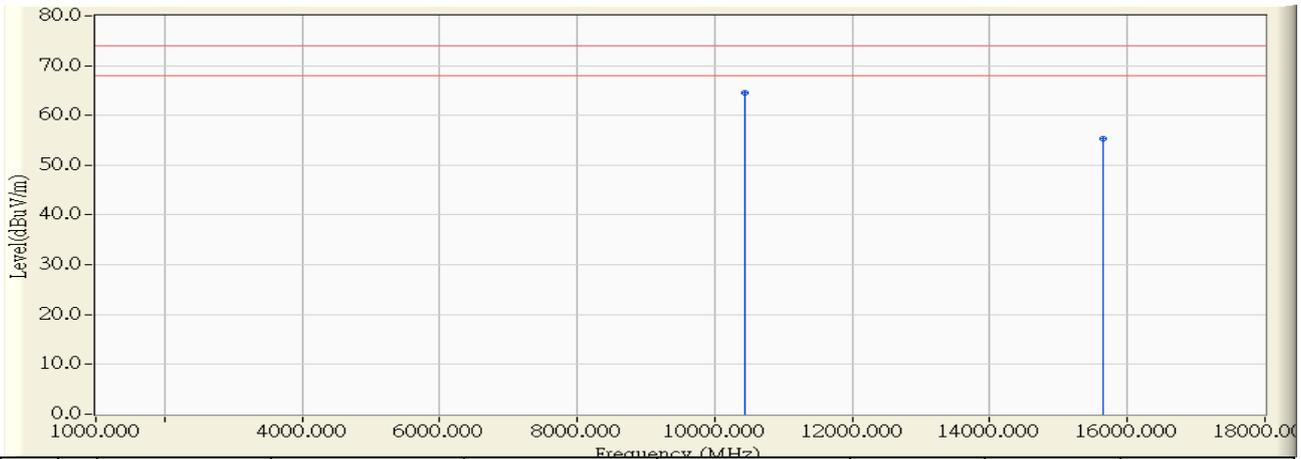


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	15660.440	10.956	30.380	41.336	-12.664	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 23:17
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11n(20MHz)_Ch44

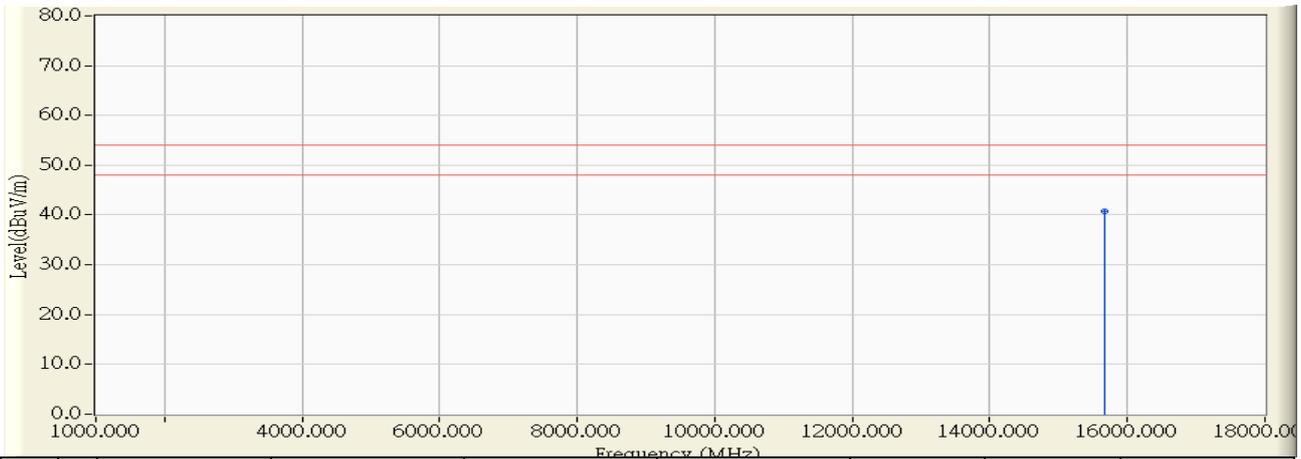


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	10438.760	9.514	55.040	64.554	-9.446	74.000	PEAK
2		15650.205	10.968	44.430	55.397	-18.603	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 23:17
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11n(20MHz)_Ch44

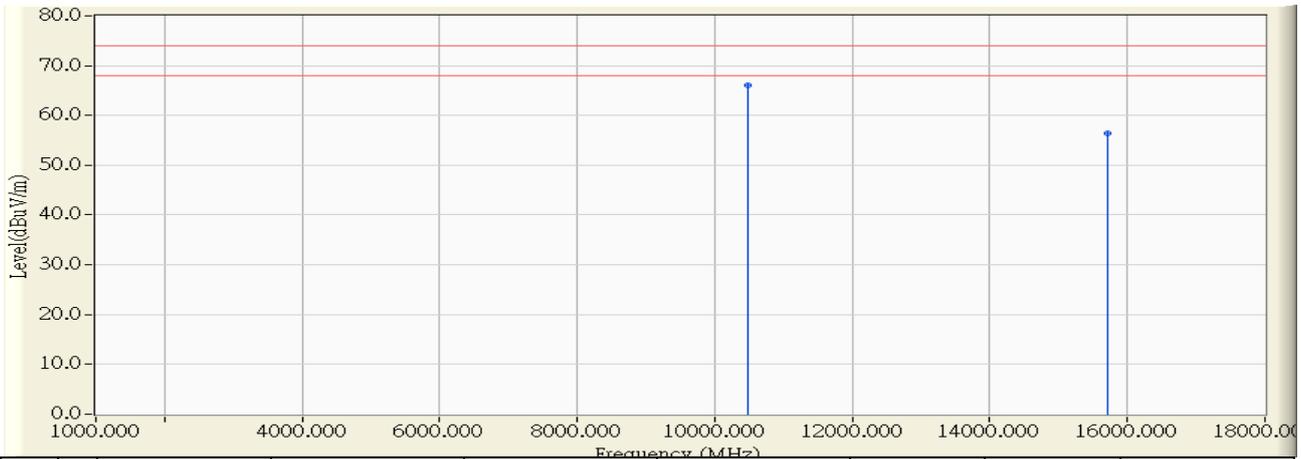


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	15659.940	10.956	29.800	40.756	-13.244	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 23:27
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11n(20MHz)_Ch48



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	10478.721	10.029	55.940	65.969	-8.031	74.000	PEAK
2		15714.763	10.895	45.570	56.465	-17.535	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 23:32
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11n(20MHz)_Ch48

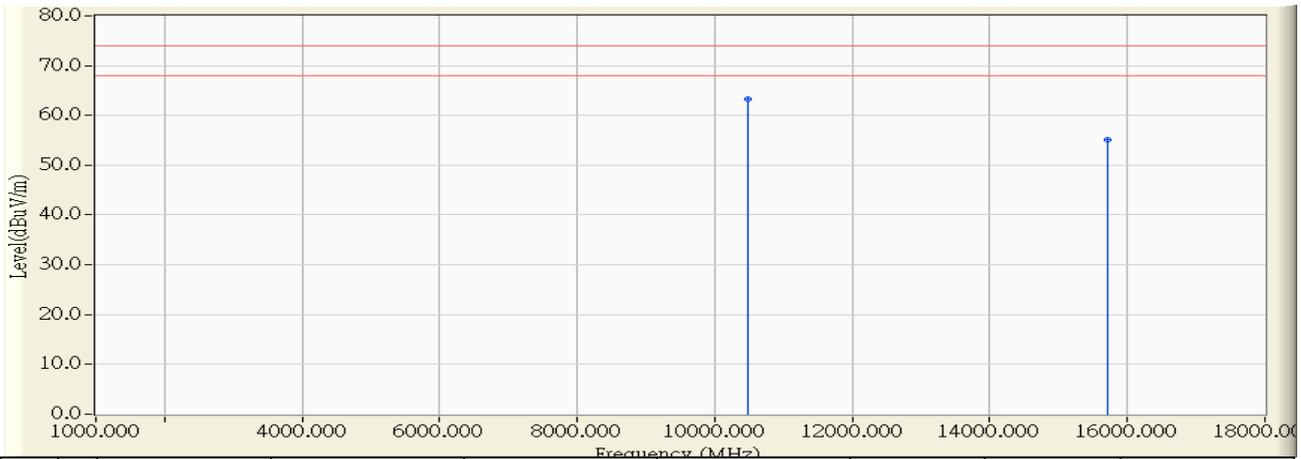


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	15719.980	10.889	30.290	41.179	-12.821	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 23:57
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11n(20MHz)_Ch48



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	10478.721	9.525	53.660	63.185	-10.815	74.000	PEAK
2		15721.199	10.888	44.330	55.218	-18.782	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 23:58
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11n(20MHz)_Ch48

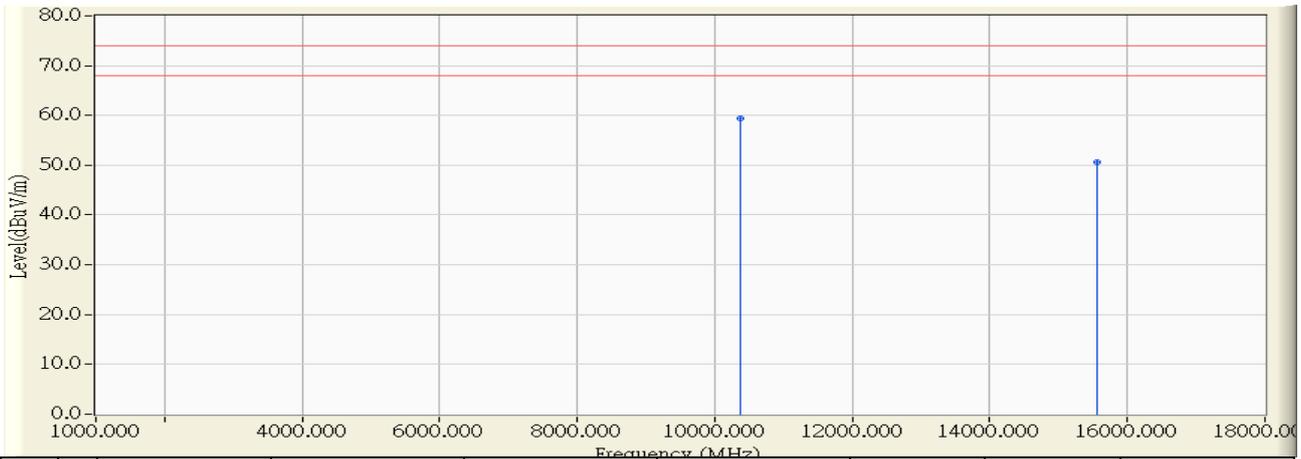


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	15722.579	10.886	29.420	40.307	-13.693	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/08 - 00:05
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11n(40MHz)_Ch38_index=07_QATool

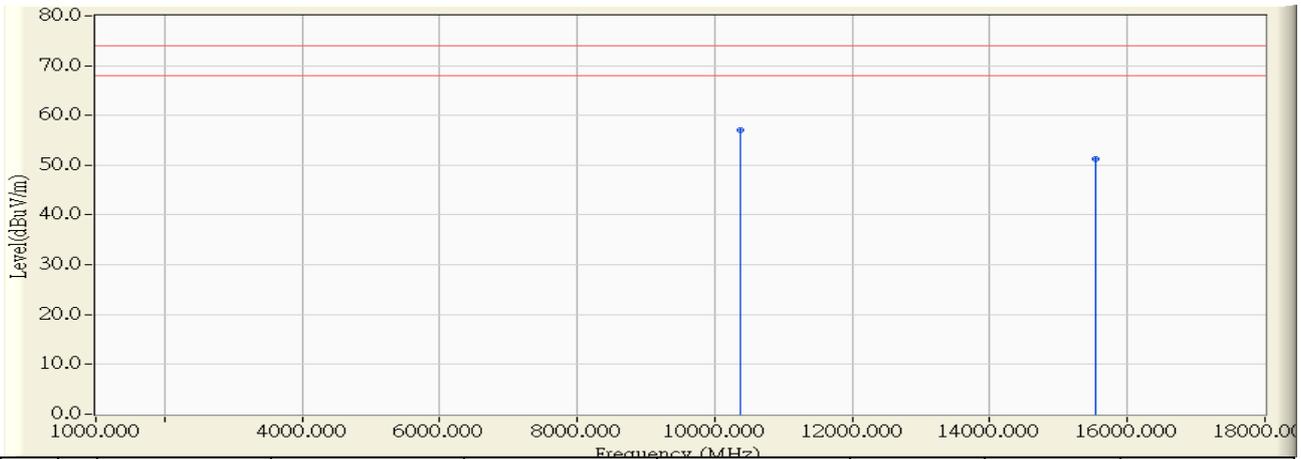


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	10380.850	10.115	49.330	59.445	-14.555	74.000	PEAK
2		15564.180	11.063	39.650	50.713	-23.287	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/08 - 00:14
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11n(40MHz)_Ch38_index=07_QATool

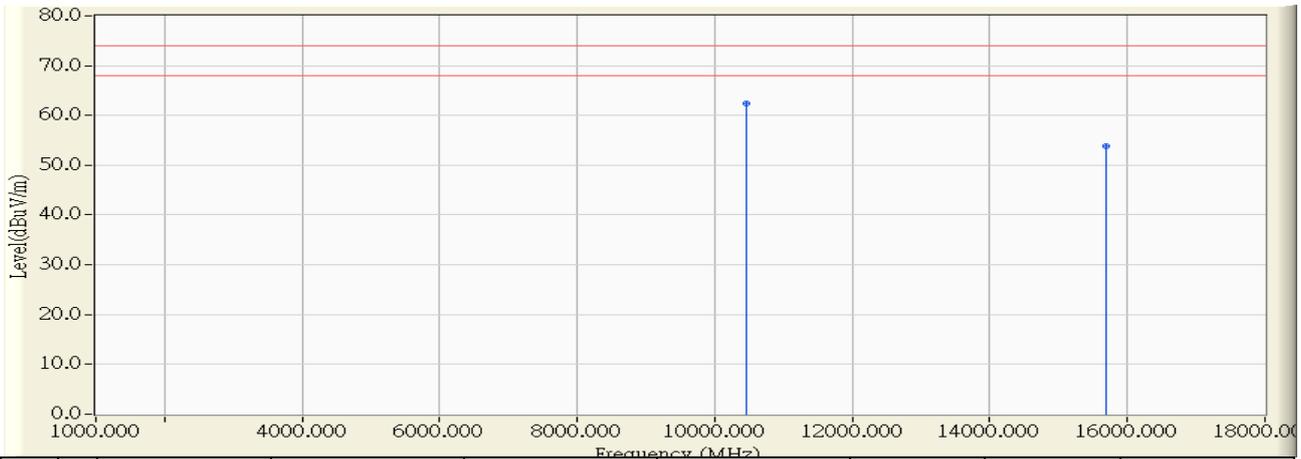


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	10381.049	9.513	47.550	57.063	-16.937	74.000	PEAK
2		15540.115	11.091	40.130	51.220	-22.780	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/08 - 00:25
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11n(40MHz)_Ch46

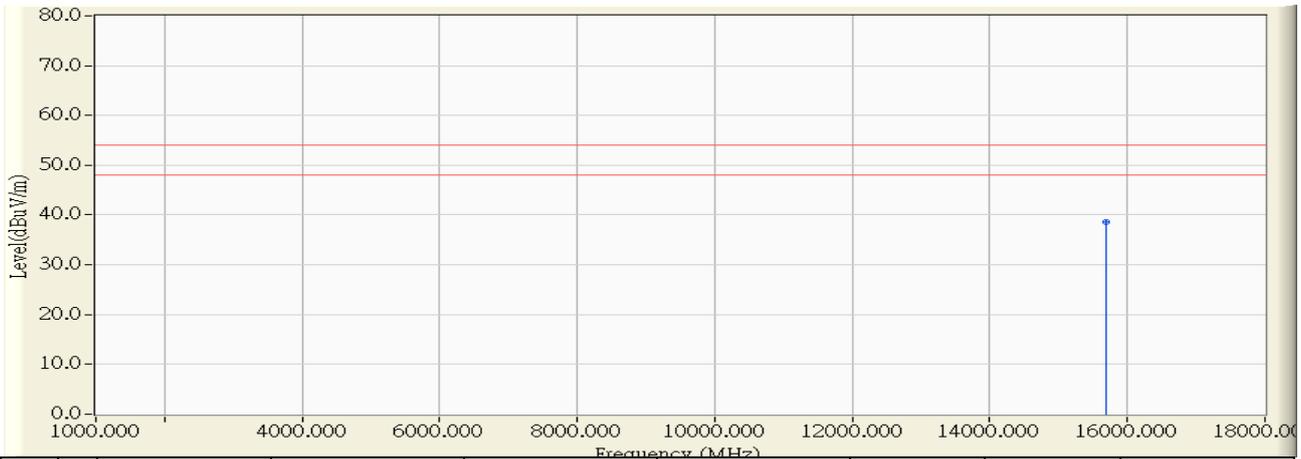


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	10455.702	10.043	52.450	62.492	-11.508	74.000	PEAK
2		15692.199	10.921	43.020	53.941	-20.059	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/08 - 00:27
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11n(40MHz)_Ch46

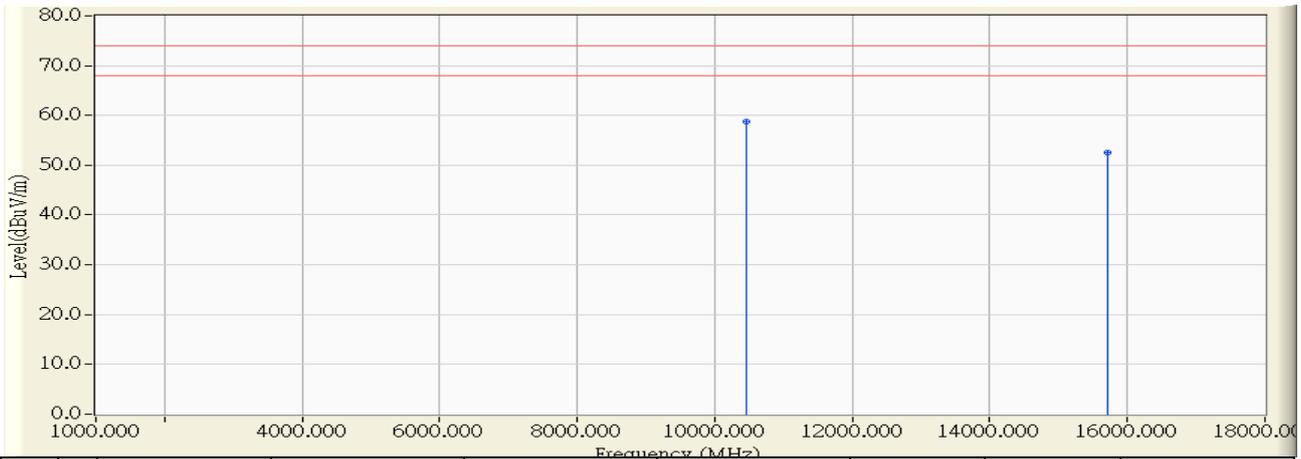


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	15694.498	10.918	27.750	38.668	-15.332	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/08 - 00:29
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11n(40MHz)_Ch46



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	10453.353	9.515	49.150	58.665	-15.335	74.000	PEAK
2		15704.843	10.907	41.730	52.636	-21.364	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/08 - 00:30
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11n(40MHz)_Ch46

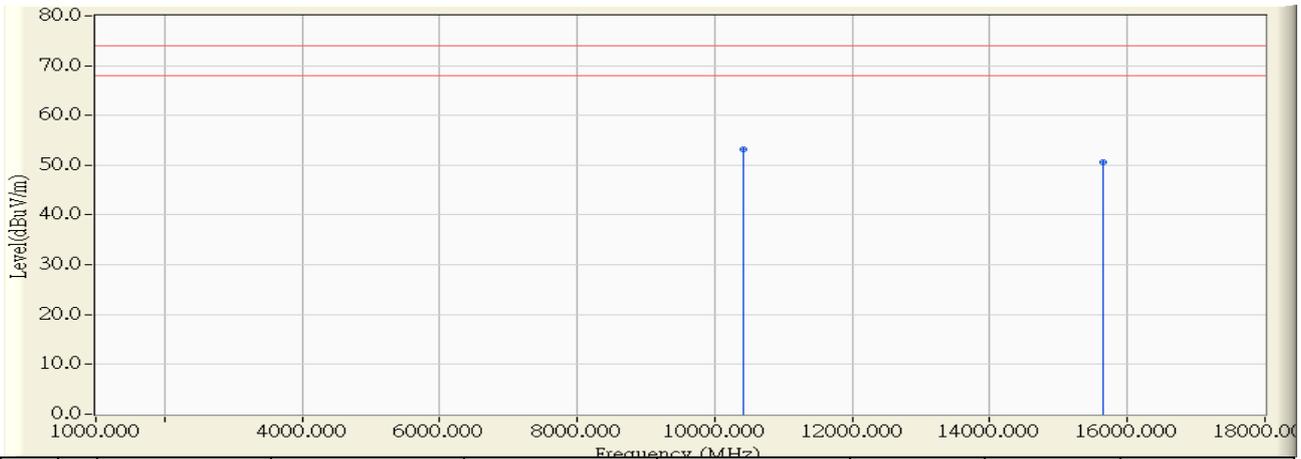


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	15682.604	10.932	26.370	37.301	-16.699	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/08 - 00:36
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11ac(80MHz)_Ch42_index=03_QATool

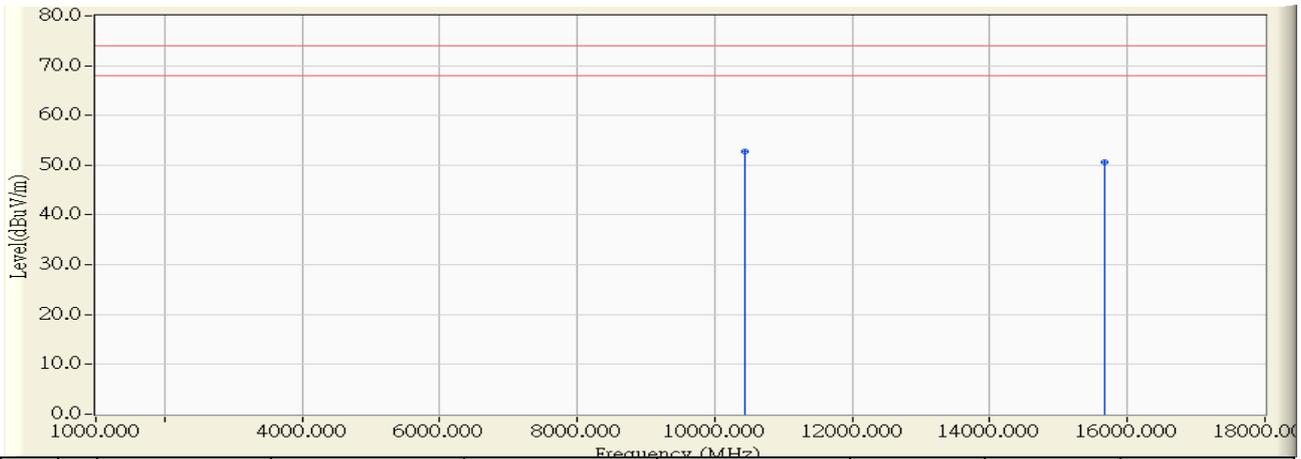


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	10420.000	10.077	43.130	53.207	-20.793	74.000	PEAK
2		15656.890	10.961	39.670	50.630	-23.370	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/08 - 00:38
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11ac(80MHz)_Ch42_index=03_QATool



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	10436.690	10.060	42.634	52.694	-21.306	74.000	PEAK
2		15671.480	10.944	39.780	50.724	-23.276	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

7. Band Edge

7.1. Test Equipment

The following test equipments are used during the band edge tests:

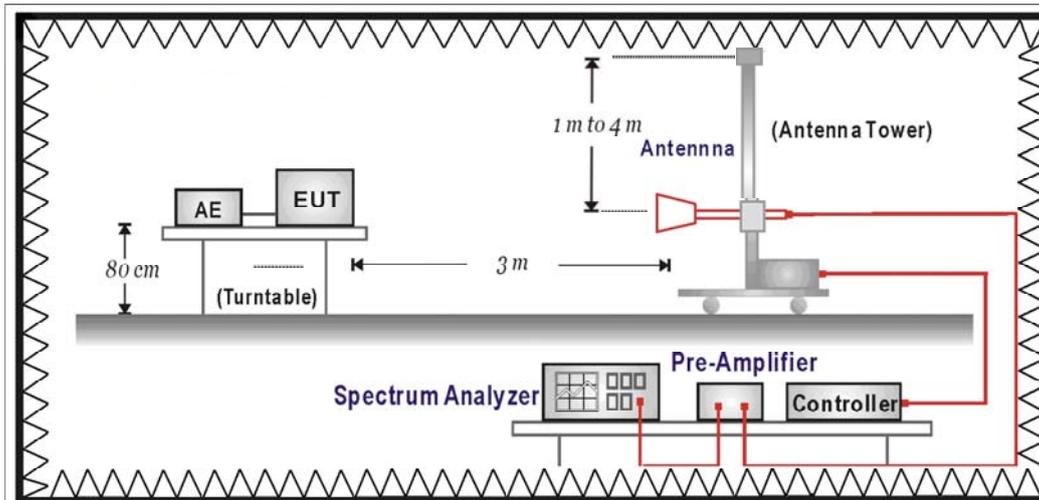
Radiated Emission Band Edge / CB1

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Double Ridged Guide Horn Antenna	Schwarzback	BBHA 9120	D743	2016/01/26
Spectrum Analyzer	Agilent	E4440A	MY46187335	2016/01/07
k Type Cable	Huber Suhner	Sucoflex 102	25623/2	2016/01/26

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

7.2. Test Setup

RF Radiated Measurement:



7.3. Limits

➤ General Radiated Emission Limits

The provisions of Section 15.205 of this part apply to intentional radiators operating under this section. Radiated emissions which fall in the restricted bands, as defined in Section 15.205, must also comply with the radiated emission limits specified in Section 15.209:

FCC Part 15 Subpart C Paragraph 15.209 Limits		
Frequency MHz	uV/m @3m	dBuV/m@3m
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Remark:

1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

➤ Unwanted Emission out of the restricted bands Limits

FCC Part 15 Subpart E Paragraph 15.407(b) Limits		
Frequency (MHz)	EIRP Limit (dBm)	Equivalent Field Strength (dBuV/m@3m)
5150~5250	-27	68.3
5250~5350	-27	68.3
5470~5725	-27	68.3
5725~5850	-27 (Note1)	68.3
	-17 (Note2)	78.3

Remark:

1. For frequencies more than 10 MHz above or below the band edges.
2. For frequency range from the band edges to 10 MHz above or below the band edges.

$$3. \quad uV/m = \frac{1000000 \sqrt{30 \times EIRP}}{3}, \quad \text{RF Voltage (dBuV/m)} = 20 \log \text{RF Voltage (uV/m)}$$

7.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10 on radiated measurement.

The bandwidth below 1GHz setting on the field strength meter is 120 KHz, above 1GHz are 1 MHz.

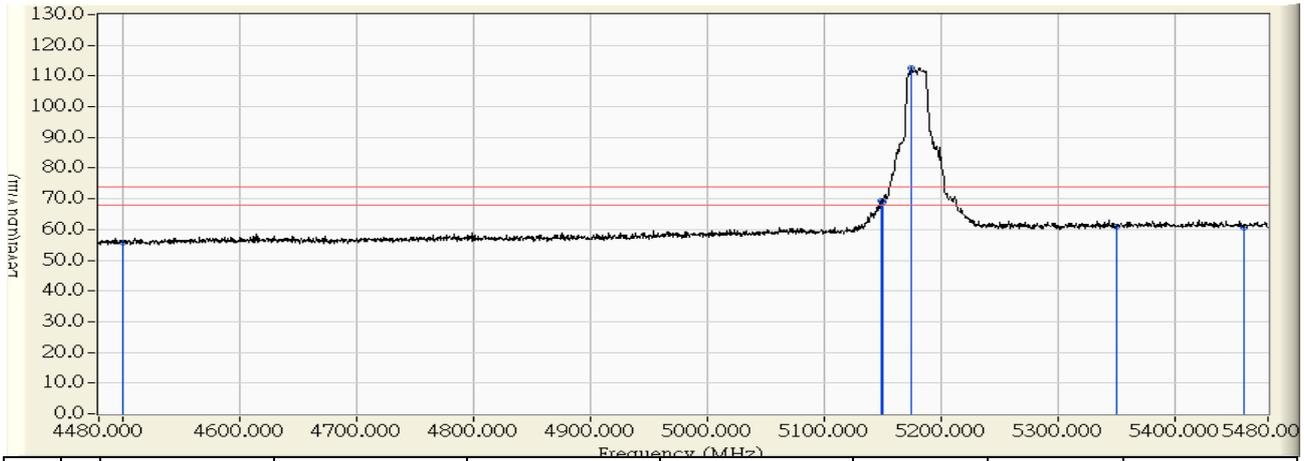
7.5. Uncertainty

The measurement uncertainty is defined as $\pm 3.65\text{dB}$

7.6. Test Result

Radiated is defined as 5GHz Band4 In-Band :

Site : CB1	Time : 2015/05/07 - 09:28
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11a_Ch36

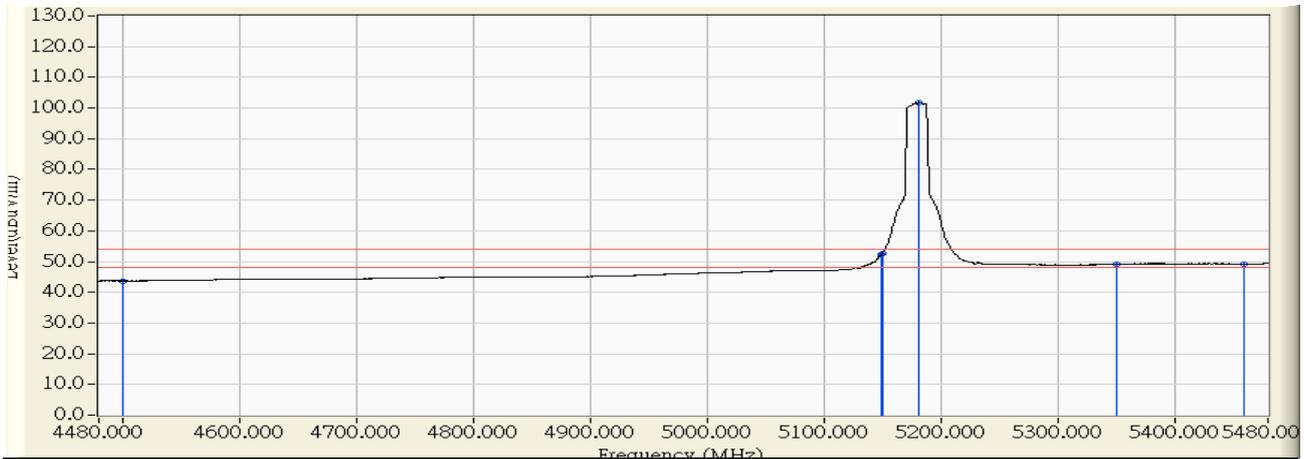


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-2.365	58.154	55.789	-18.211	74.000	PEAK
2	5149.665	0.272	69.108	69.379	-4.621	74.000	PEAK
3	5150.000	0.275	68.786	69.060	-4.940	74.000	PEAK
4	* 5175.152	0.495	112.206	112.700	38.700	74.000	PEAK
5	5350.000	2.026	58.834	60.859	-13.141	74.000	PEAK
6	5460.000	2.989	57.657	60.645	-13.355	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 09:27
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11a_Ch36

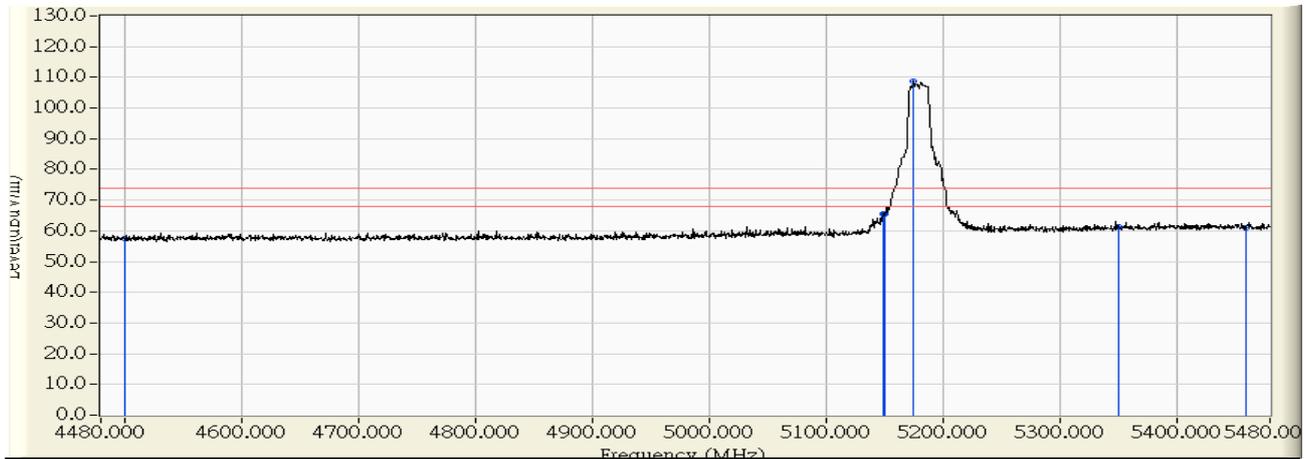


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-2.365	46.072	43.707	-10.293	54.000	AVERAGE
2	5149.665	0.272	52.119	52.390	-1.610	54.000	AVERAGE
3	5150.000	0.275	52.366	52.640	-1.360	54.000	AVERAGE
4	* 5181.149	0.546	101.346	101.893	47.893	54.000	AVERAGE
5	5350.000	2.026	47.113	49.138	-4.862	54.000	AVERAGE
6	5460.000	2.989	46.249	49.237	-4.763	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 09:34
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11a_Ch36



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-0.658	58.062	57.405	-16.595	74.000	PEAK
2	5148.666	0.680	64.858	65.538	-8.462	74.000	PEAK
3	5150.000	0.691	64.827	65.518	-8.482	74.000	PEAK
4	* 5175.152	0.899	107.809	108.707	34.707	74.000	PEAK
5	5350.000	2.342	59.055	61.397	-12.603	74.000	PEAK
6	5460.000	3.250	57.843	61.093	-12.907	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 09:36
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11a_Ch36

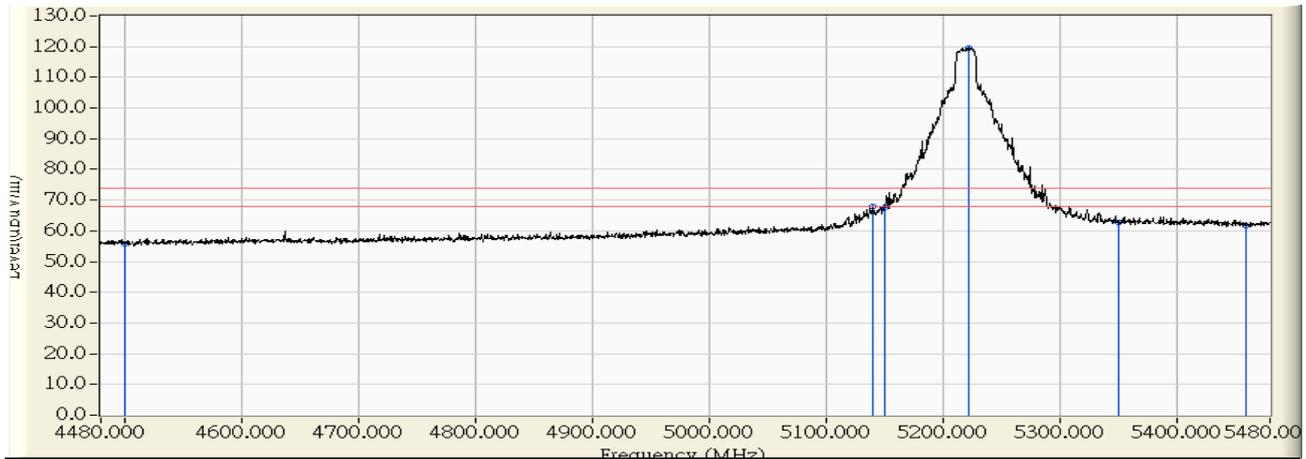


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-0.658	46.046	45.389	-8.611	54.000	AVERAGE
2	5149.665	0.689	49.349	50.037	-3.963	54.000	AVERAGE
3	5150.000	0.691	49.470	50.161	-3.839	54.000	AVERAGE
4	* 5181.149	0.947	96.580	97.528	43.528	54.000	AVERAGE
5	5350.000	2.342	46.526	48.868	-5.132	54.000	AVERAGE
6	5460.000	3.250	45.852	49.102	-4.898	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 09:45
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11a_Ch44

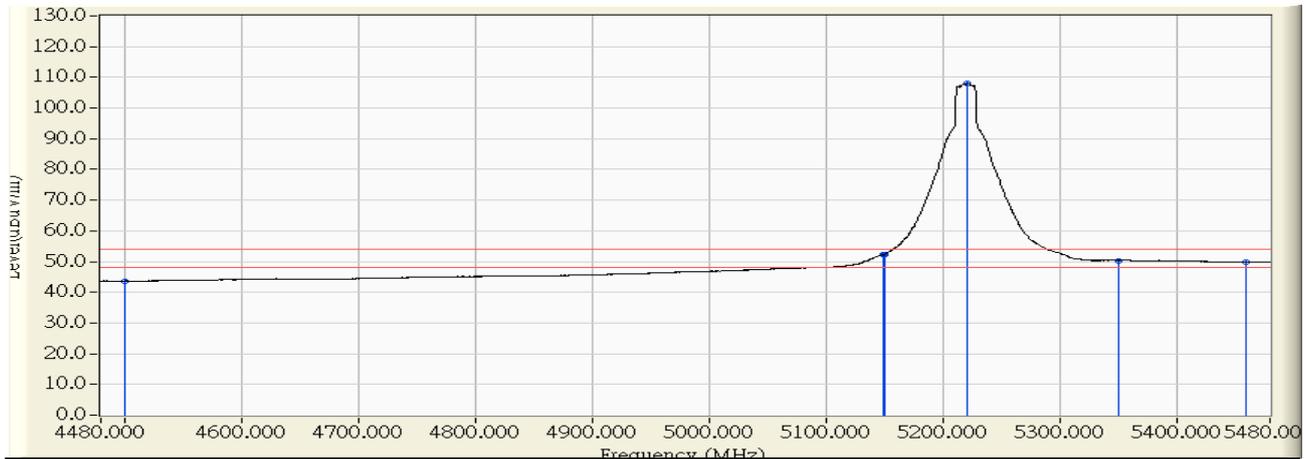


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-2.365	58.177	55.812	-18.188	74.000	PEAK
2	5140.170	0.188	67.898	68.086	-5.914	74.000	PEAK
3	5150.000	0.275	67.467	67.741	-6.259	74.000	PEAK
4	* 5222.629	0.910	118.728	119.638	45.638	74.000	PEAK
5	5350.000	2.026	60.553	62.578	-11.422	74.000	PEAK
6	5460.000	2.989	58.875	61.863	-12.137	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 09:47
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11a_Ch44

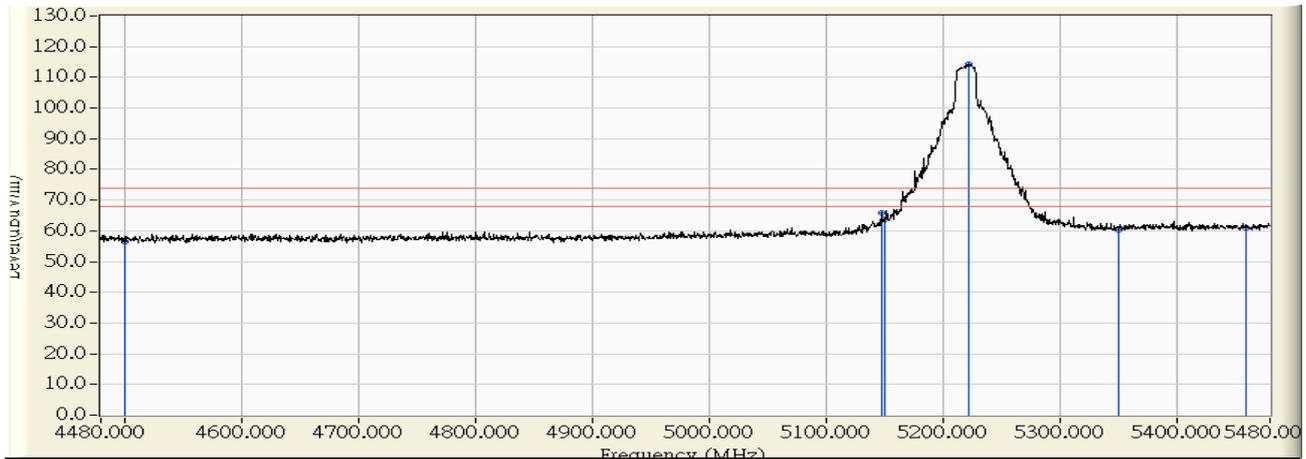


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-2.365	46.059	43.694	-10.306	54.000	AVERAGE
2	5149.665	0.272	52.105	52.376	-1.624	54.000	AVERAGE
3	5150.000	0.275	52.067	52.341	-1.659	54.000	AVERAGE
4	* 5221.129	0.896	107.109	108.006	54.006	54.000	AVERAGE
5	5350.000	2.026	48.323	50.348	-3.652	54.000	AVERAGE
6	5460.000	2.989	46.706	49.694	-4.306	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 09:56
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11a_Ch44



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-0.658	56.967	56.310	-17.690	74.000	PEAK
2	5147.666	0.672	65.302	65.973	-8.027	74.000	PEAK
3	5150.000	0.691	63.143	63.834	-10.166	74.000	PEAK
4	* 5222.629	1.290	113.043	114.333	40.333	74.000	PEAK
5	5350.000	2.342	57.986	60.328	-13.672	74.000	PEAK
6	5460.000	3.250	57.685	60.935	-13.065	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 09:59
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11a_Ch44

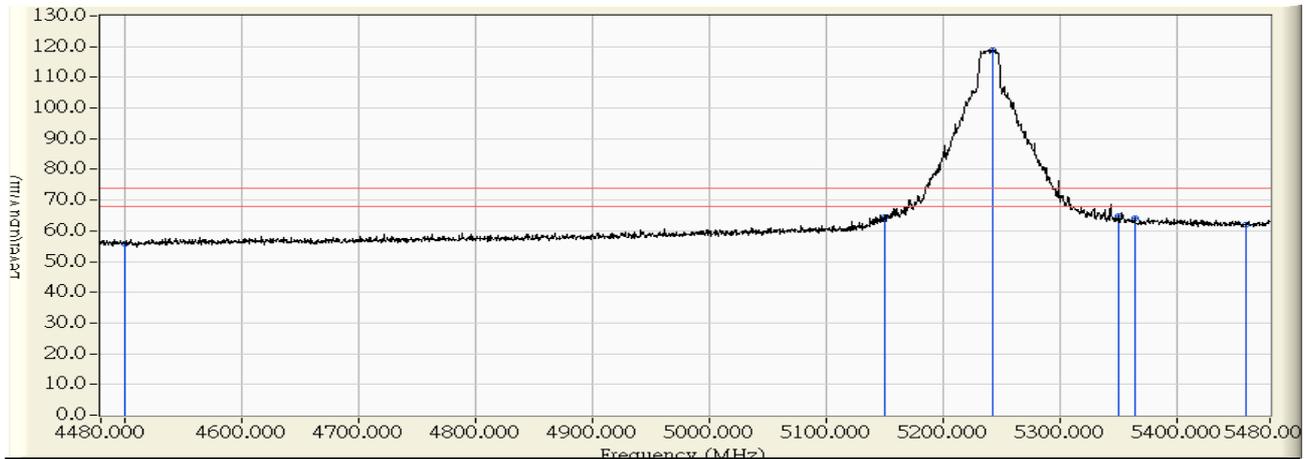


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-0.658	46.050	45.393	-8.607	54.000	AVERAGE
2	5147.666	0.672	48.893	49.564	-4.436	54.000	AVERAGE
3	5150.000	0.691	48.915	49.606	-4.394	54.000	AVERAGE
4	* 5221.129	1.277	101.491	102.769	48.769	54.000	AVERAGE
5	5350.000	2.342	46.680	49.022	-4.978	54.000	AVERAGE
6	5460.000	3.250	45.975	49.225	-4.775	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 10:52
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11a_Ch48

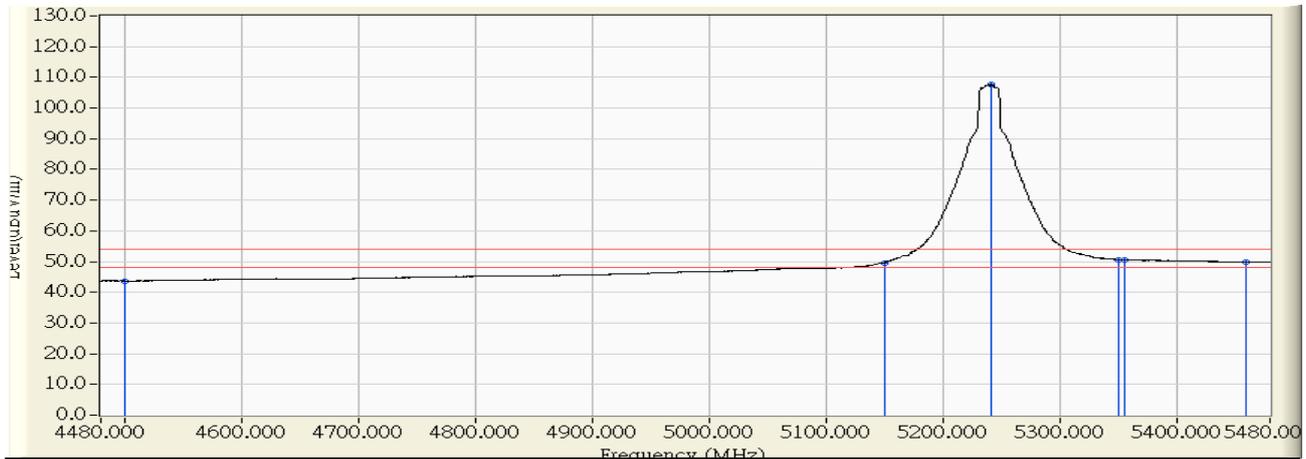


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-2.365	57.990	55.625	-18.375	74.000	PEAK
2	5150.000	0.275	64.252	64.526	-9.474	74.000	PEAK
3	* 5242.619	1.085	117.905	118.990	44.990	74.000	PEAK
4	5350.000	2.026	62.774	64.799	-9.201	74.000	PEAK
5	5364.558	2.153	62.140	64.293	-9.707	74.000	PEAK
6	5460.000	2.989	59.183	62.171	-11.829	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 10:55
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11a_Ch48

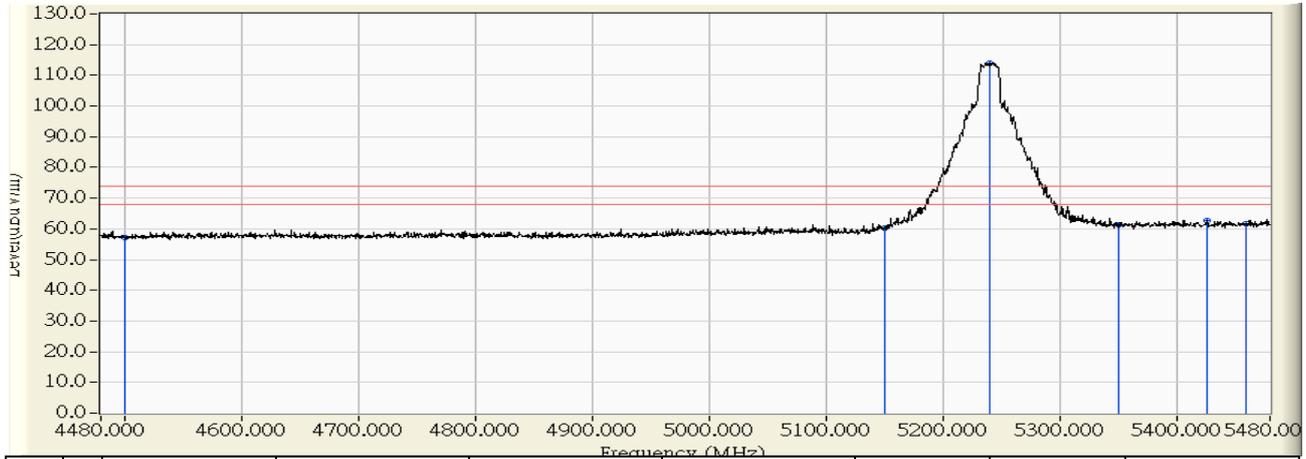


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-2.365	46.074	43.709	-10.291	54.000	AVERAGE
2	5150.000	0.275	49.335	49.609	-4.391	54.000	AVERAGE
3	* 5241.119	1.071	106.513	107.585	53.585	54.000	AVERAGE
4	5350.000	2.026	48.654	50.679	-3.321	54.000	AVERAGE
5	5355.062	2.070	48.577	50.646	-3.354	54.000	AVERAGE
6	5460.000	2.989	46.715	49.703	-4.297	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 11:00
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11a_Ch48

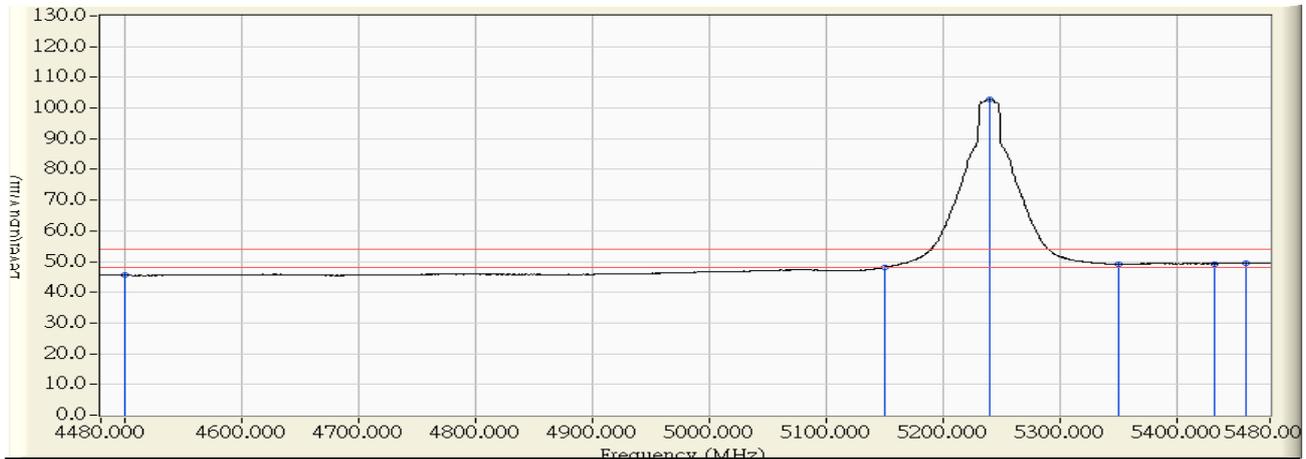


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-0.658	57.752	57.095	-16.905	74.000	PEAK
2	5150.000	0.691	59.645	60.336	-13.664	74.000	PEAK
3	* 5240.620	1.438	112.678	114.117	40.117	74.000	PEAK
4	5350.000	2.342	59.038	61.380	-12.620	74.000	PEAK
5	5425.527	2.965	59.800	62.765	-11.235	74.000	PEAK
6	5460.000	3.250	58.303	61.553	-12.447	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 11:02
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11a_Ch48

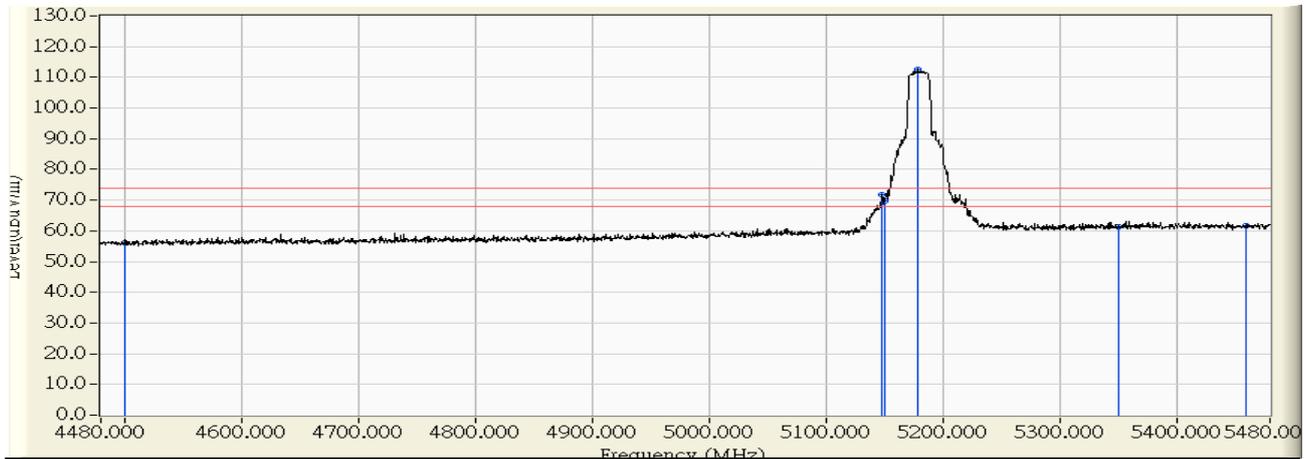


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-0.658	46.178	45.521	-8.479	54.000	AVERAGE
2	5150.000	0.691	47.377	48.068	-5.932	54.000	AVERAGE
3	* 5240.620	1.438	101.369	102.808	48.808	54.000	AVERAGE
4	5350.000	2.342	46.867	49.209	-4.791	54.000	AVERAGE
5	5432.024	3.018	46.279	49.298	-4.702	54.000	AVERAGE
6	5460.000	3.250	46.224	49.474	-4.526	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 11:09
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11n(20MHz)_Ch36

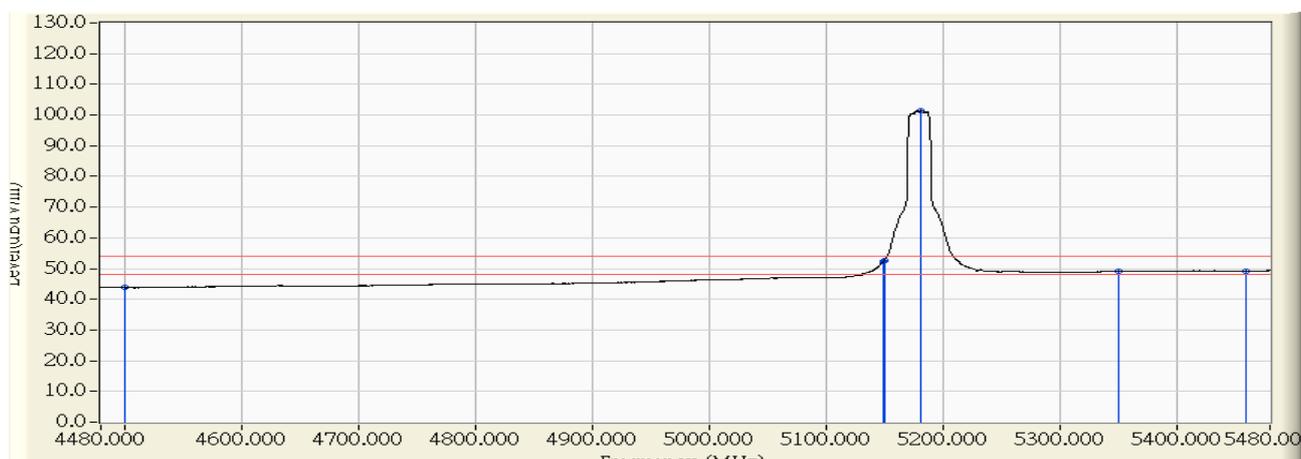


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-2.365	58.385	56.020	-17.980	74.000	PEAK
2	5148.166	0.258	71.399	71.657	-2.343	74.000	PEAK
3	5150.000	0.275	69.552	69.826	-4.174	74.000	PEAK
4	* 5178.151	0.520	112.169	112.690	38.690	74.000	PEAK
5	5350.000	2.026	59.160	61.185	-12.815	74.000	PEAK
6	5460.000	2.989	58.669	61.657	-12.343	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 11:10
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11n(20MHz)_Ch36

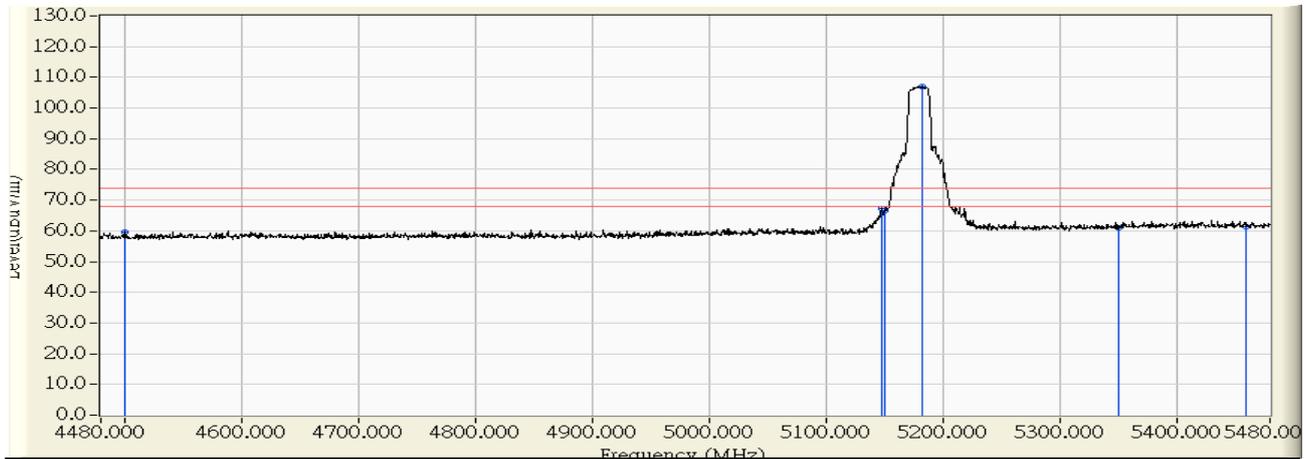


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-2.365	46.123	43.758	-10.242	54.000	AVERAGE
2	5149.665	0.272	52.125	52.396	-1.604	54.000	AVERAGE
3	5150.000	0.275	52.253	52.527	-1.473	54.000	AVERAGE
4	* 5181.149	0.546	101.030	101.577	47.577	54.000	AVERAGE
5	5350.000	2.026	47.074	49.099	-4.901	54.000	AVERAGE
6	5460.000	2.989	46.160	49.148	-4.852	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 11:17
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11n(20MHz)_Ch36



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-0.658	60.227	59.570	-14.430	74.000	PEAK
2	5147.666	0.672	66.767	67.438	-6.562	74.000	PEAK
3	5150.000	0.691	65.735	66.426	-7.574	74.000	PEAK
4	* 5182.649	0.960	106.110	107.070	33.070	74.000	PEAK
5	5350.000	2.342	58.485	60.827	-13.173	74.000	PEAK
6	5460.000	3.250	58.196	61.446	-12.554	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 11:18
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11n(20MHz)_Ch36

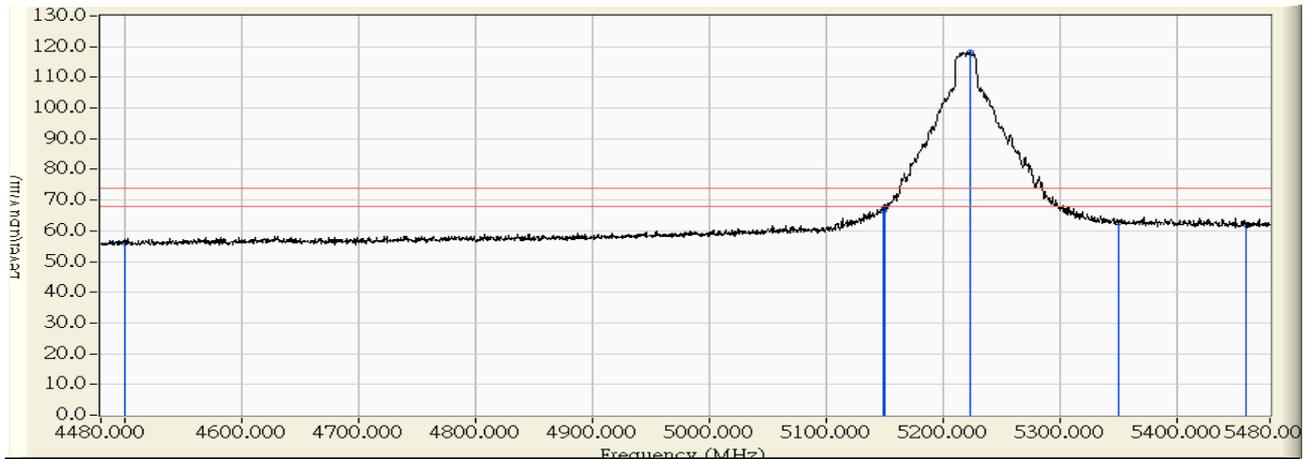


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-0.658	46.089	45.432	-8.568	54.000	AVERAGE
2	5149.665	0.689	49.167	49.855	-4.145	54.000	AVERAGE
3	5150.000	0.691	49.255	49.946	-4.054	54.000	AVERAGE
4	* 5181.649	0.951	95.661	96.613	42.613	54.000	AVERAGE
5	5350.000	2.342	46.498	48.840	-5.160	54.000	AVERAGE
6	5460.000	3.250	45.847	49.097	-4.903	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 11:28
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11n(20MHz)_Ch44

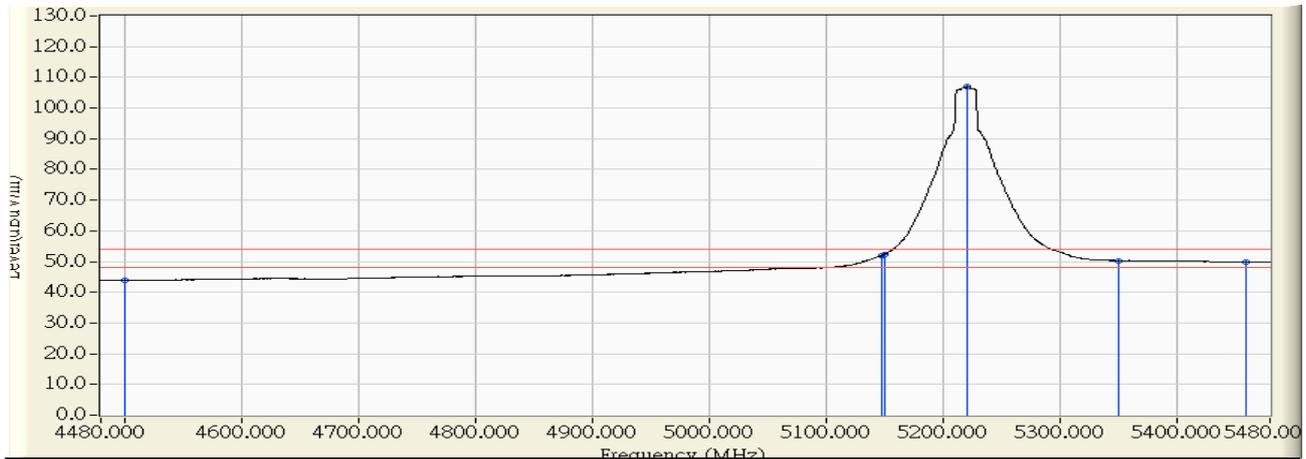


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-2.365	58.426	56.061	-17.939	74.000	PEAK
2	5149.665	0.272	66.192	66.463	-7.537	74.000	PEAK
3	5150.000	0.275	67.415	67.689	-6.311	74.000	PEAK
4	* 5223.128	0.914	117.203	118.117	44.117	74.000	PEAK
5	5350.000	2.026	60.741	62.766	-11.234	74.000	PEAK
6	5460.000	2.989	58.984	61.972	-12.028	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 11:30
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11n(20MHz)_Ch44

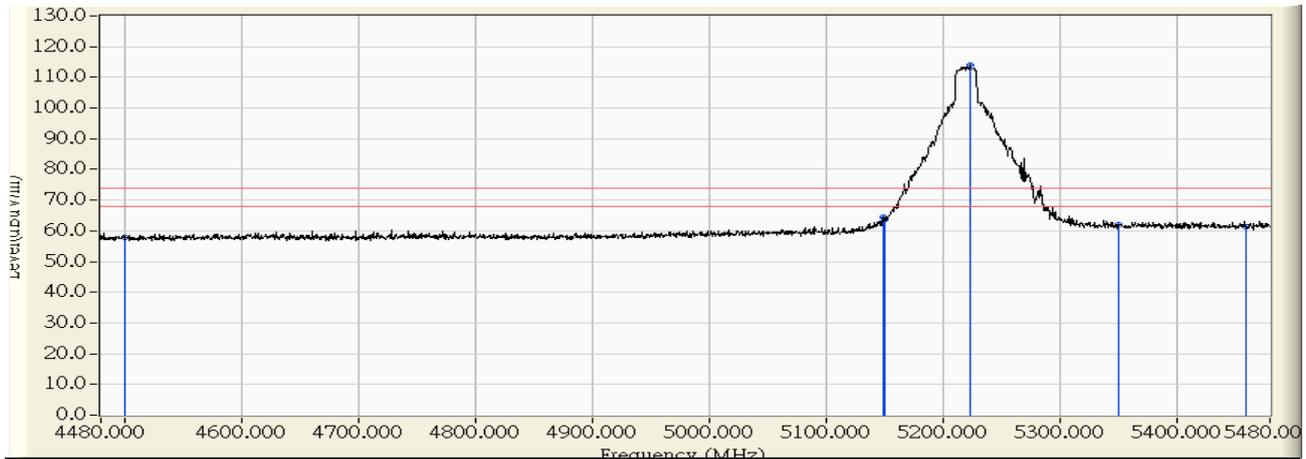


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-2.365	46.220	43.855	-10.145	54.000	AVERAGE
2	5147.666	0.254	51.712	51.966	-2.034	54.000	AVERAGE
3	5150.000	0.275	52.145	52.419	-1.581	54.000	AVERAGE
4	* 5221.129	0.896	106.134	107.031	53.031	54.000	AVERAGE
5	5350.000	2.026	48.258	50.283	-3.717	54.000	AVERAGE
6	5460.000	2.989	46.723	49.711	-4.289	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 11:37
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11n(20MHz)_Ch44

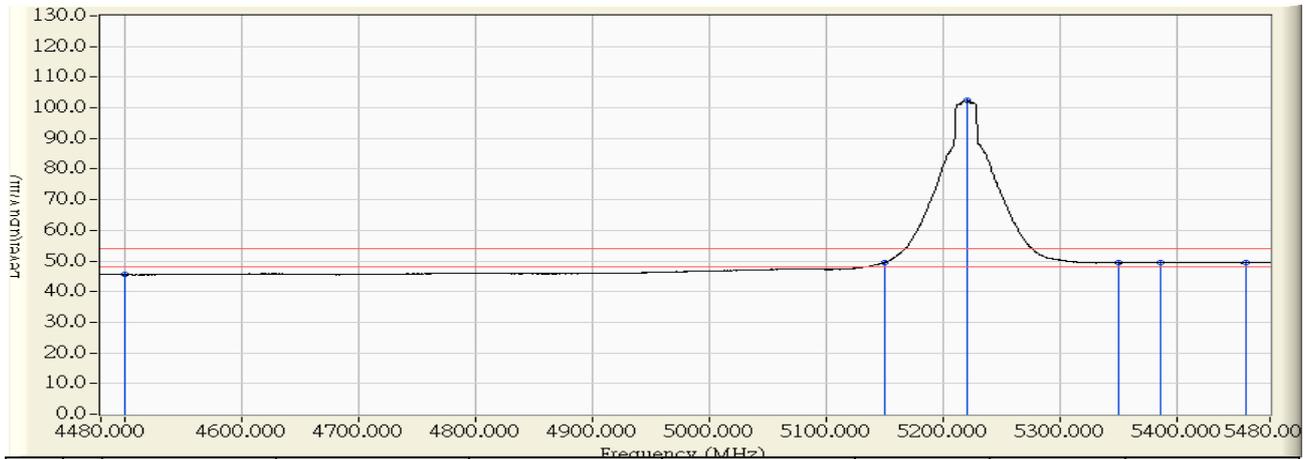


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-0.658	58.680	58.023	-15.977	74.000	PEAK
2	5149.665	0.689	63.638	64.326	-9.674	74.000	PEAK
3	5150.000	0.691	62.938	63.629	-10.371	74.000	PEAK
4	* 5223.128	1.294	112.560	113.854	39.854	74.000	PEAK
5	5350.000	2.342	59.615	61.957	-12.043	74.000	PEAK
6	5460.000	3.250	58.144	61.394	-12.606	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 11:39
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11n(20MHz)_Ch44

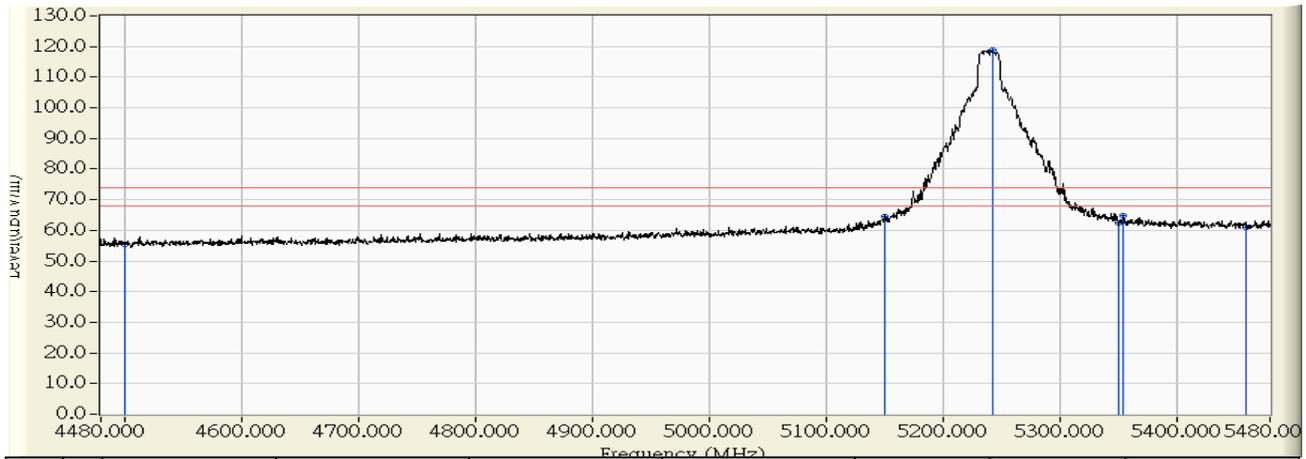


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-0.658	46.162	45.505	-8.495	54.000	AVERAGE
2	5150.000	0.691	48.781	49.472	-4.528	54.000	AVERAGE
3	* 5221.629	1.282	101.098	102.380	48.380	54.000	AVERAGE
4	5350.000	2.342	46.988	49.330	-4.670	54.000	AVERAGE
5	5386.547	2.643	46.920	49.563	-4.437	54.000	AVERAGE
6	5460.000	3.250	46.094	49.344	-4.656	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 11:44
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11n(20MHz)_Ch48

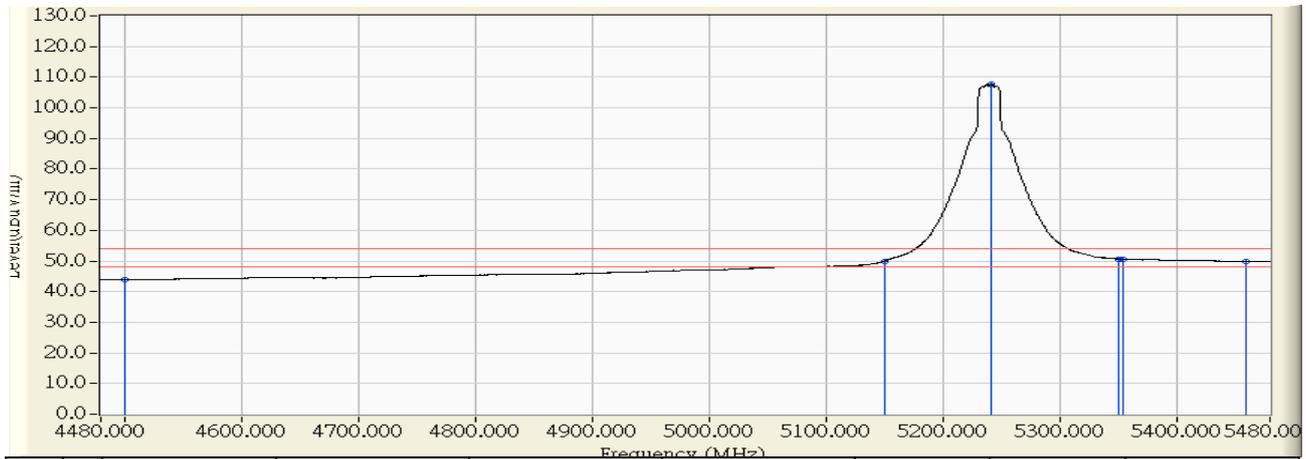


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-2.365	57.928	55.563	-18.437	74.000	PEAK
2	5150.000	0.275	64.086	64.360	-9.640	74.000	PEAK
3	* 5243.118	1.089	117.907	118.996	44.996	74.000	PEAK
4	5350.000	2.026	60.427	62.452	-11.548	74.000	PEAK
5	5354.063	2.061	62.691	64.752	-9.248	74.000	PEAK
6	5460.000	2.989	57.950	60.938	-13.062	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 11:56
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11n(20MHz)_Ch48

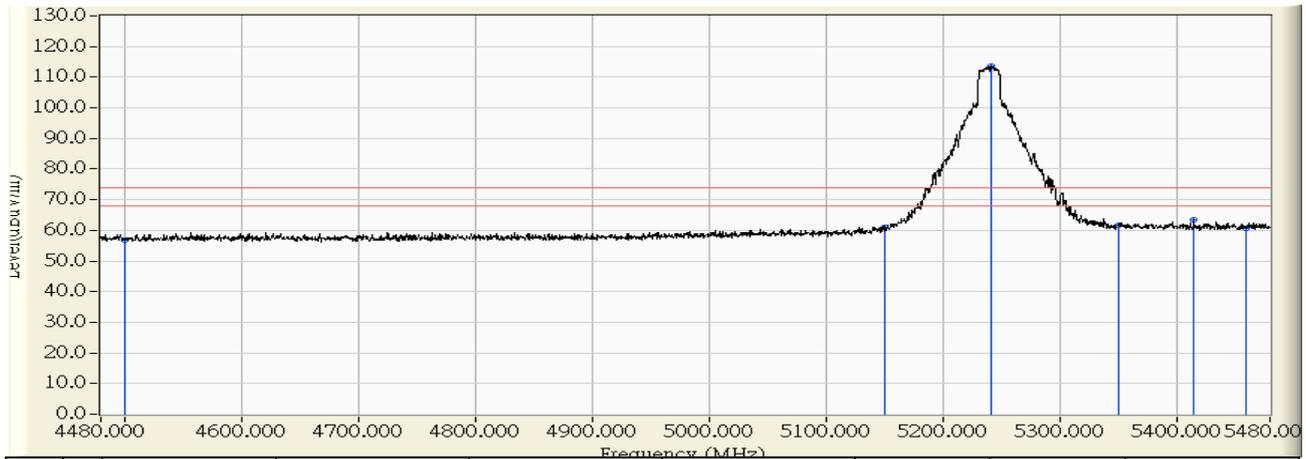


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-2.365	46.234	43.869	-10.131	54.000	AVERAGE
2	5150.000	0.275	49.629	49.903	-4.097	54.000	AVERAGE
3	* 5241.119	1.071	106.657	107.729	53.729	54.000	AVERAGE
4	5350.000	2.026	48.680	50.705	-3.295	54.000	AVERAGE
5	5354.063	2.061	48.600	50.661	-3.339	54.000	AVERAGE
6	5460.000	2.989	46.760	49.748	-4.252	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 11:59
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11n(20MHz)_Ch48

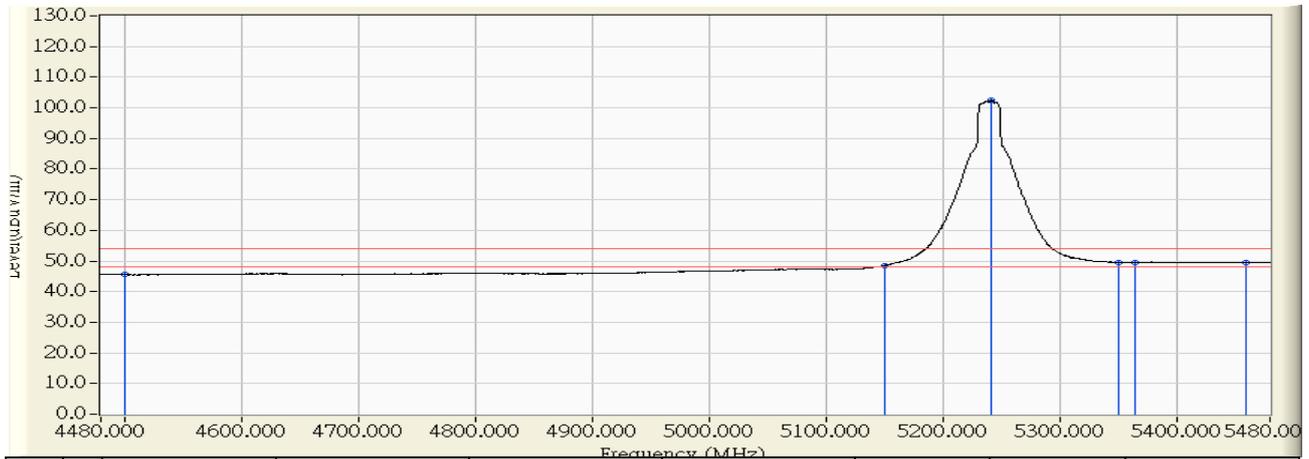


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-0.658	57.506	56.849	-17.151	74.000	PEAK
2	5150.000	0.691	60.169	60.860	-13.140	74.000	PEAK
3	* 5241.119	1.442	112.261	113.704	39.704	74.000	PEAK
4	5350.000	2.342	59.195	61.537	-12.463	74.000	PEAK
5	5414.533	2.874	60.578	63.452	-10.548	74.000	PEAK
6	5460.000	3.250	57.521	60.771	-13.229	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 12:00
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11n(20MHz)_Ch48

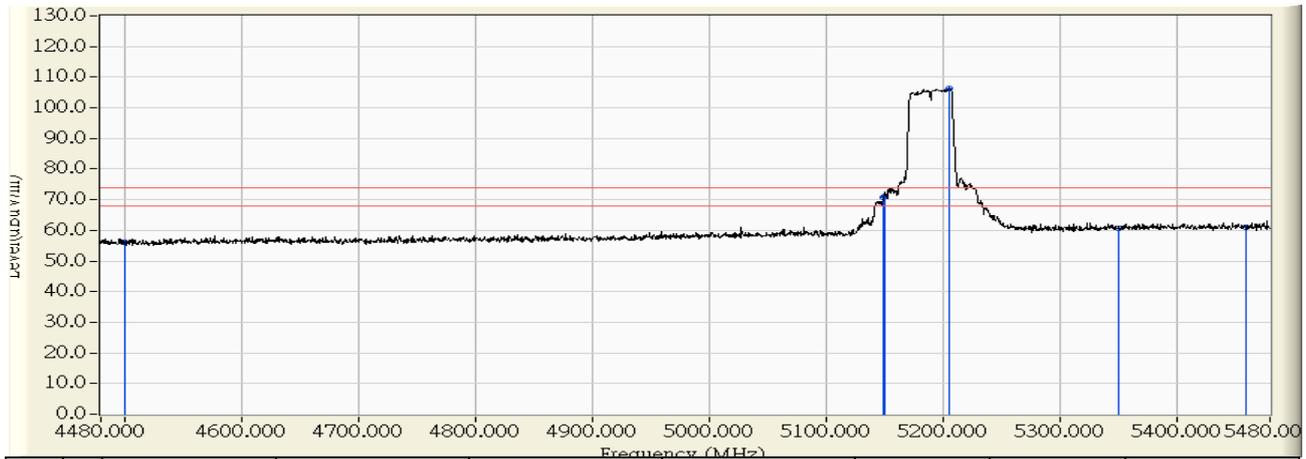


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-0.658	46.196	45.539	-8.461	54.000	AVERAGE
2	5150.000	0.691	47.762	48.453	-5.547	54.000	AVERAGE
3	* 5241.119	1.442	101.032	102.475	48.475	54.000	AVERAGE
4	5350.000	2.342	47.197	49.539	-4.461	54.000	AVERAGE
5	5364.058	2.458	47.114	49.572	-4.428	54.000	AVERAGE
6	5460.000	3.250	46.096	49.346	-4.654	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 14:08
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11n(40MHz)_Ch38_index=07_QATool

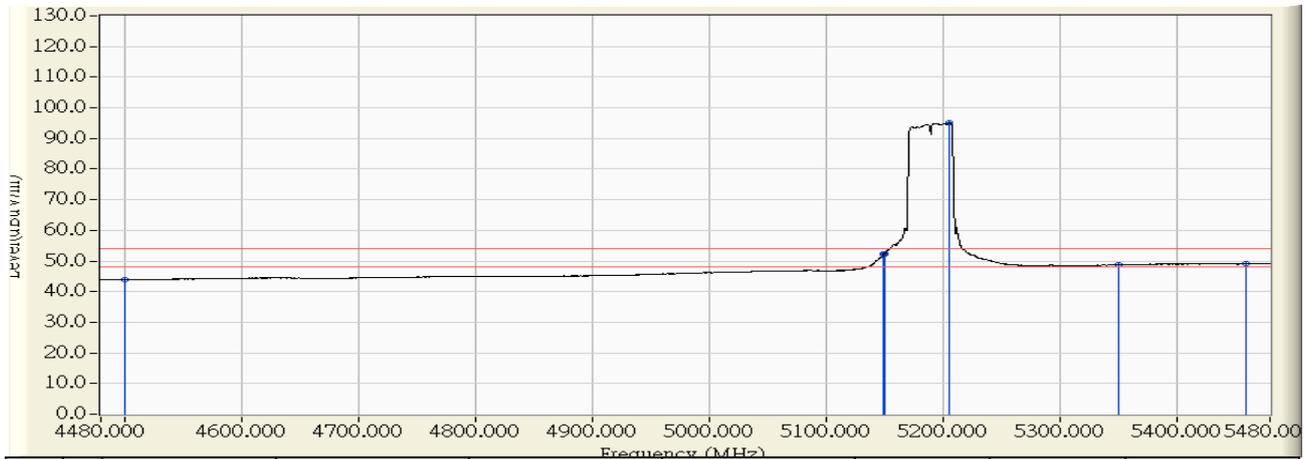


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-2.365	58.493	56.128	-17.872	74.000	PEAK
2	5148.666	0.263	70.511	70.774	-3.226	74.000	PEAK
3	5150.000	0.275	70.992	71.266	-2.734	74.000	PEAK
4	* 5205.637	0.761	105.479	106.240	32.240	74.000	PEAK
5	5350.000	2.026	58.618	60.643	-13.357	74.000	PEAK
6	5460.000	2.989	57.968	60.956	-13.044	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 14:07
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11n(40MHz)_Ch38_index=07_QATool

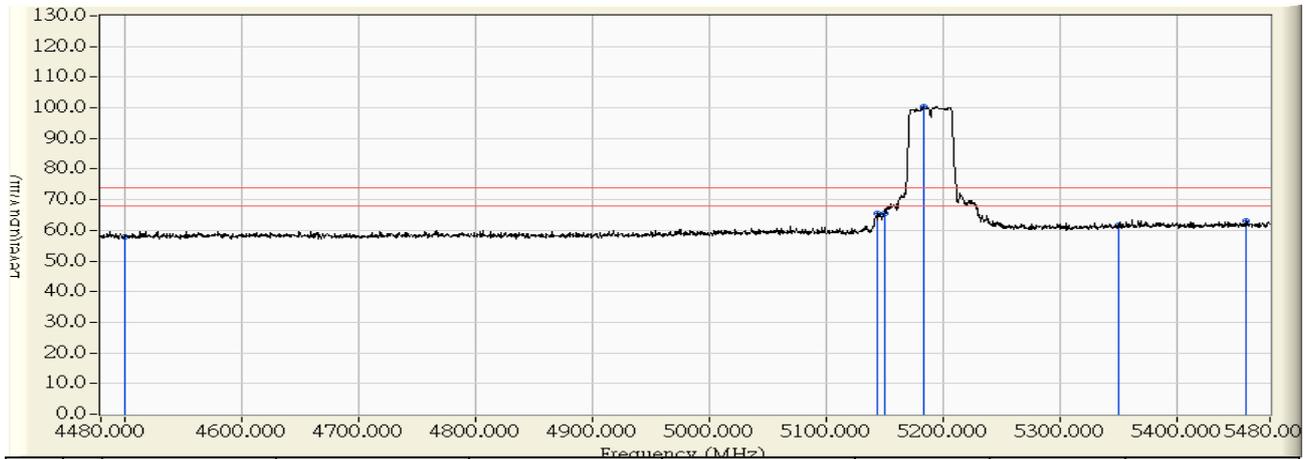


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-2.365	46.240	43.875	-10.125	54.000	AVERAGE
2	5149.665	0.272	51.978	52.249	-1.751	54.000	AVERAGE
3	5150.000	0.275	52.041	52.315	-1.685	54.000	AVERAGE
4	* 5205.637	0.761	94.525	95.286	41.286	54.000	AVERAGE
5	5350.000	2.026	46.745	48.770	-5.230	54.000	AVERAGE
6	5460.000	2.989	46.033	49.021	-4.979	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 14:13
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11n(40MHz)_Ch38_index=07_QATool

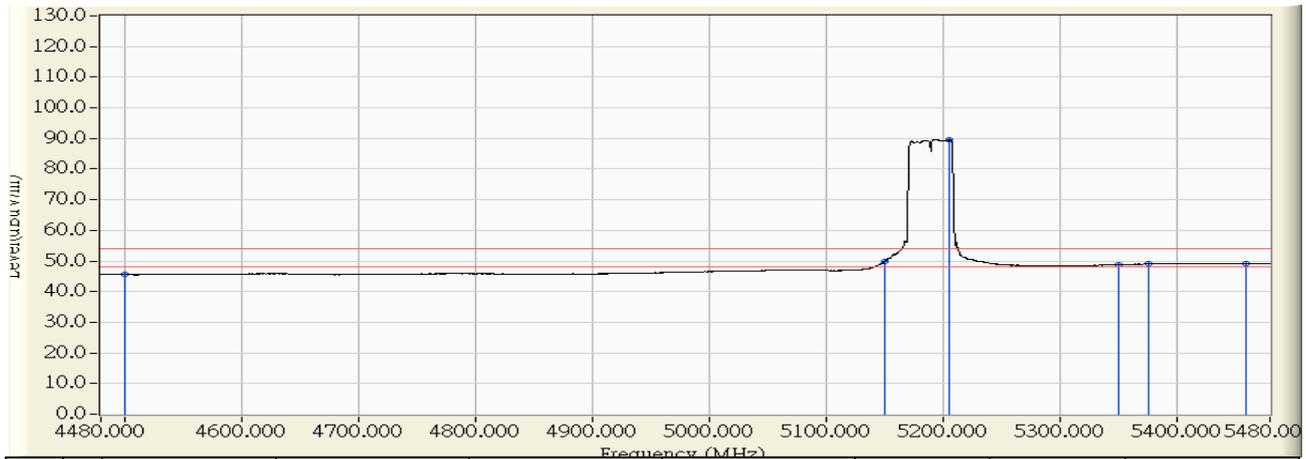


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-0.658	58.412	57.755	-16.245	74.000	PEAK
2	5144.168	0.643	64.921	65.564	-8.436	74.000	PEAK
3	5150.000	0.691	65.005	65.696	-8.304	74.000	PEAK
4	* 5184.148	0.973	99.509	100.482	26.482	74.000	PEAK
5	5350.000	2.342	59.499	61.841	-12.159	74.000	PEAK
6	5460.000	3.250	59.738	62.988	-11.012	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 14:15
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11n(40MHz)_Ch38_index=07_QATool

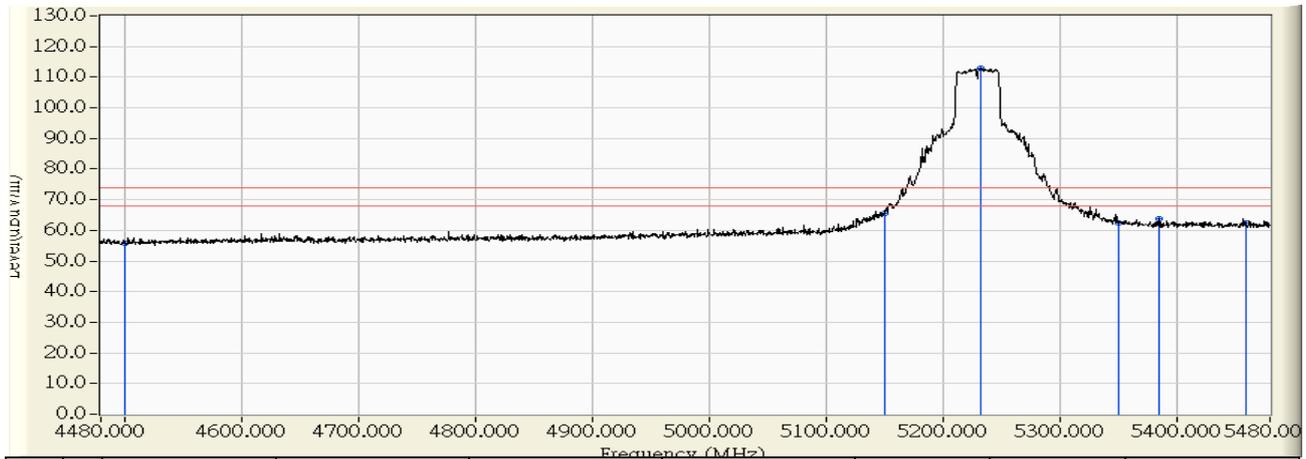


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-0.658	46.173	45.516	-8.484	54.000	AVERAGE
2	5150.000	0.691	49.178	49.869	-4.131	54.000	AVERAGE
3	* 5205.137	1.146	88.471	89.617	35.617	54.000	AVERAGE
4	5350.000	2.342	46.388	48.730	-5.270	54.000	AVERAGE
5	5375.552	2.552	46.508	49.061	-4.939	54.000	AVERAGE
6	5460.000	3.250	45.881	49.131	-4.869	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 14:21
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11n(40MHz)_Ch46

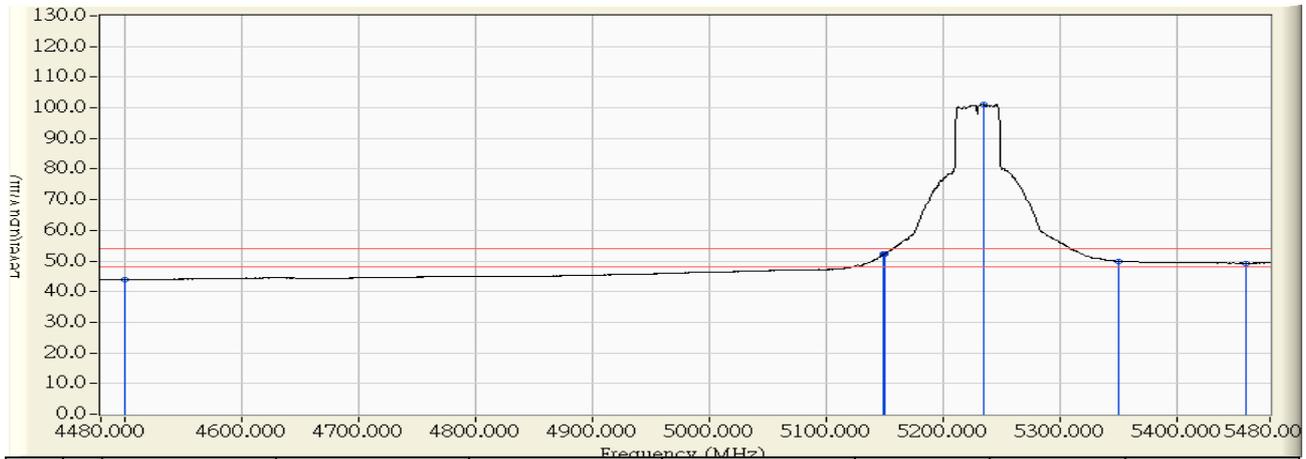


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-2.365	58.126	55.761	-18.239	74.000	PEAK
2	5150.000	0.275	65.109	65.383	-8.617	74.000	PEAK
3	* 5233.123	1.002	111.854	112.856	38.856	74.000	PEAK
4	5350.000	2.026	60.502	62.527	-11.473	74.000	PEAK
5	5384.548	2.328	61.431	63.759	-10.241	74.000	PEAK
6	5460.000	2.989	59.260	62.248	-11.752	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 14:23
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11n(40MHz)_Ch46

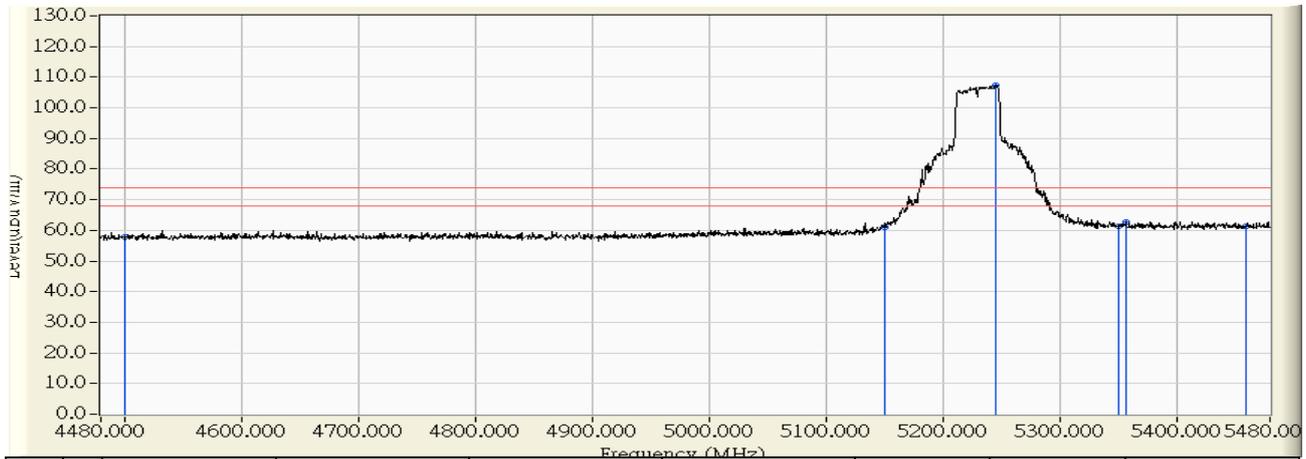


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-2.365	46.203	43.838	-10.162	54.000	AVERAGE
2	5149.665	0.272	51.861	52.132	-1.868	54.000	AVERAGE
3	5150.000	0.275	52.153	52.427	-1.573	54.000	AVERAGE
4	* 5234.623	1.016	100.077	101.092	47.092	54.000	AVERAGE
5	5350.000	2.026	47.878	49.903	-4.097	54.000	AVERAGE
6	5460.000	2.989	46.255	49.243	-4.757	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 14:28
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11n(40MHz)_Ch46



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-0.658	58.339	57.682	-16.318	74.000	PEAK
2	5150.000	0.691	60.424	61.115	-12.885	74.000	PEAK
3	* 5245.617	1.480	105.820	107.300	33.300	74.000	PEAK
4	5350.000	2.342	59.103	61.445	-12.555	74.000	PEAK
5	5357.061	2.400	60.278	62.678	-11.322	74.000	PEAK
6	5460.000	3.250	57.992	61.242	-12.758	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 14:30
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11n(40MHz)_Ch46

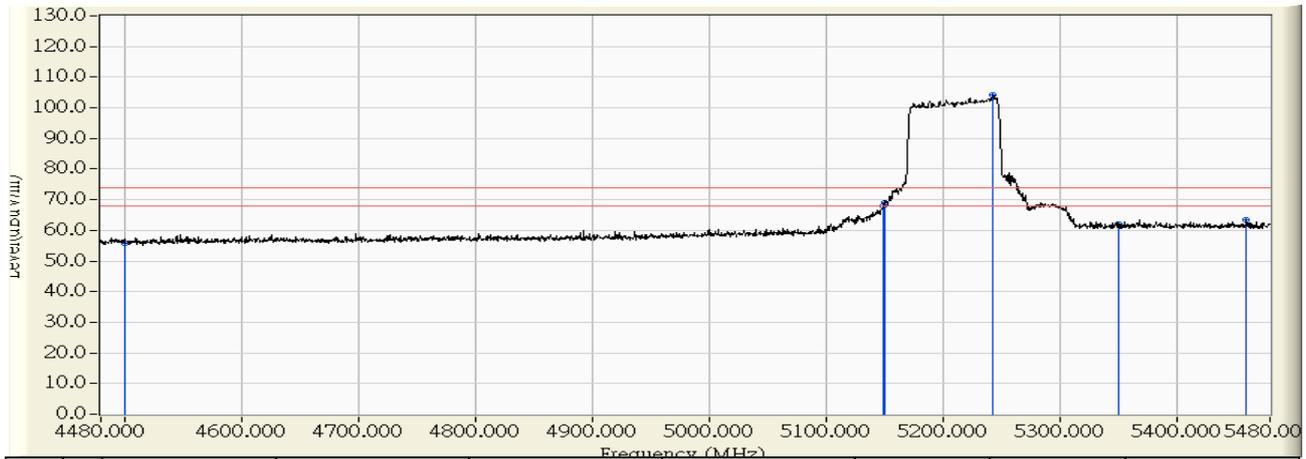


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-0.658	46.200	45.543	-8.457	54.000	AVERAGE
2	5150.000	0.691	48.226	48.917	-5.083	54.000	AVERAGE
3	* 5246.117	1.484	94.537	96.021	42.021	54.000	AVERAGE
4	5350.000	2.342	46.714	49.056	-4.944	54.000	AVERAGE
5	5358.061	2.408	46.725	49.133	-4.867	54.000	AVERAGE
6	5460.000	3.250	45.949	49.199	-4.801	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 14:40
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11ac(80MHz)_Ch42

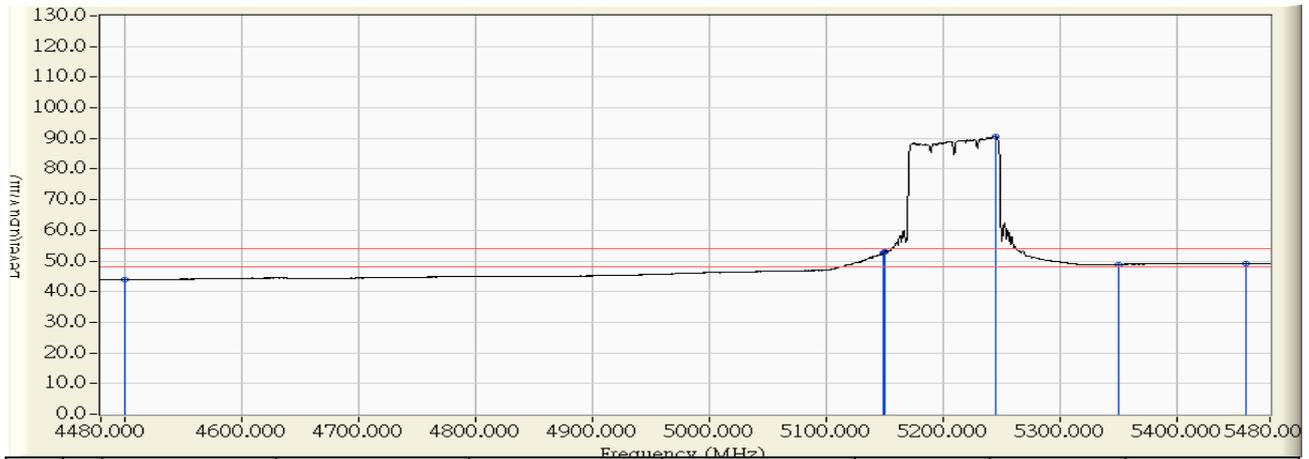


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-2.365	57.989	55.624	-18.376	74.000	PEAK
2	5149.665	0.272	67.815	68.086	-5.914	74.000	PEAK
3	5150.000	0.275	68.896	69.170	-4.830	74.000	PEAK
4	* 5243.118	1.089	103.178	104.267	30.267	74.000	PEAK
5	5350.000	2.026	59.880	61.905	-12.095	74.000	PEAK
6	5460.000	2.989	60.502	63.490	-10.510	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 14:39
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11ac(80MHz)_Ch42

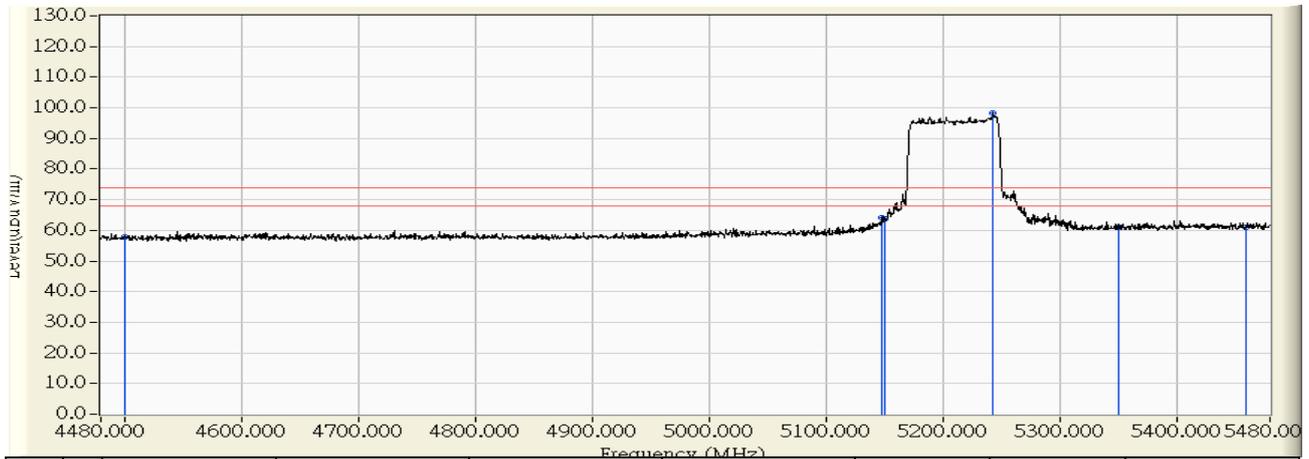


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-2.365	46.156	43.791	-10.209	54.000	AVERAGE
2	5149.665	0.272	52.433	52.704	-1.296	54.000	AVERAGE
3	5150.000	0.275	52.587	52.861	-1.139	54.000	AVERAGE
4	* 5245.117	1.108	89.572	90.679	36.679	54.000	AVERAGE
5	5350.000	2.026	46.863	48.888	-5.112	54.000	AVERAGE
6	5460.000	2.989	46.037	49.025	-4.975	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 14:45
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11ac(80MHz)_Ch42

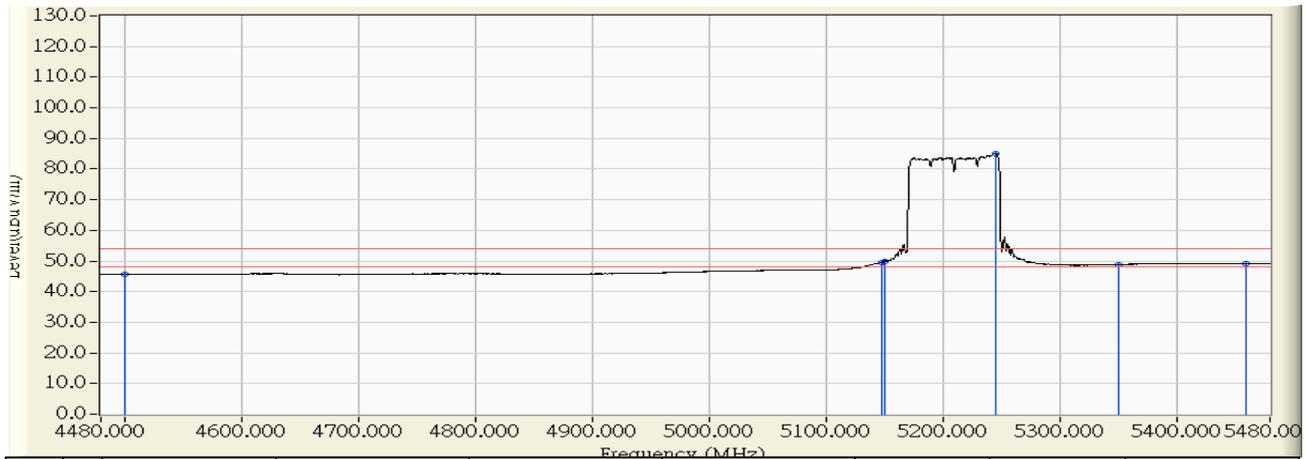


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-0.658	58.563	57.906	-16.094	74.000	PEAK
2	5148.166	0.676	63.420	64.096	-9.904	74.000	PEAK
3	5150.000	0.691	62.942	63.633	-10.367	74.000	PEAK
4	* 5243.118	1.459	96.745	98.204	24.204	74.000	PEAK
5	5350.000	2.342	58.677	61.019	-12.981	74.000	PEAK
6	5460.000	3.250	57.895	61.145	-12.855	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2015/05/07 - 14:47
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless-AC750 Range Extender	Note : 802.11ac(80MHz)_Ch42



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-0.658	46.177	45.520	-8.480	54.000	AVERAGE
2	5147.666	0.672	48.906	49.577	-4.423	54.000	AVERAGE
3	5150.000	0.691	49.197	49.888	-4.112	54.000	AVERAGE
4	* 5245.117	1.477	83.609	85.085	31.085	54.000	AVERAGE
5	5350.000	2.342	46.528	48.870	-5.130	54.000	AVERAGE
6	5460.000	3.250	45.840	49.090	-4.910	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

8. Frequency Stability

8.1. Test Equipment

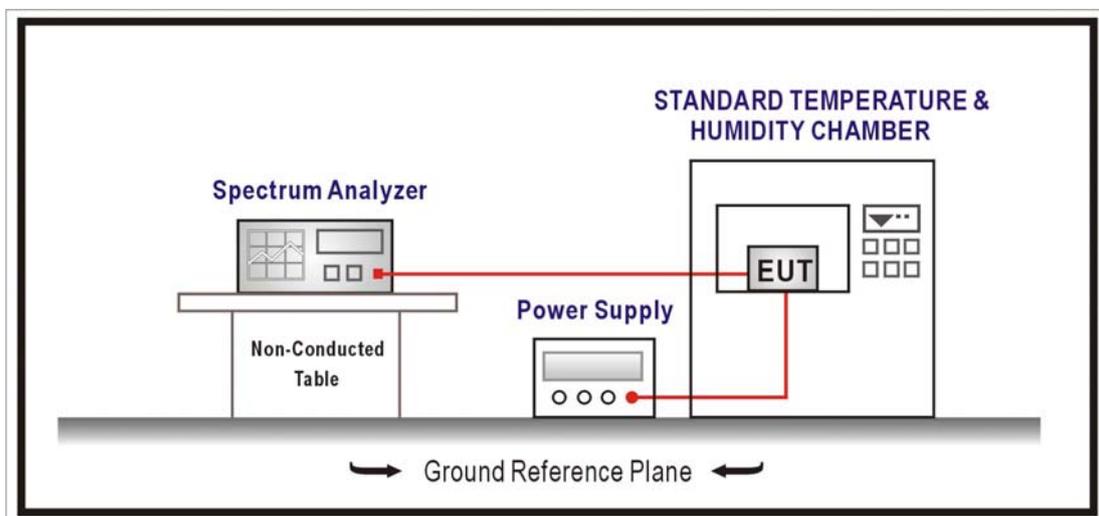
The following test equipments are used during the radiated emission tests:

Frequency Stability / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2015/07/14
Temperature & Humidity Chamber	WIT	TH-1S-B	1082101	2016/01/22

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

8.2. Test Setup



8.3. Limits

Manufactures of all 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

8.4. Test Procedure

The EUT was setup to ANSI C63.4, 2009; tested to U-NII test procedure of KDB 789033 for compliance to FCC 47CFR Subpart E requirements.

8.5. Uncertainty

The measurement uncertainty is defined as ± 150 Hz

8.6. Test Result

Product	Dual-band Wireless-AC750 Range Extender		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/20	Test Site	SR7

802.11a - 5180MHz

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5180.3366	64.9832	Pass
-10		5180.1441	27.8249	Pass
0		5180.0169	3.2599	Pass
10		5180.8195	158.1994	Pass
20		5180.0668	12.8984	Pass
30		5180.8096	156.2868	Pass
40		5180.2650	51.1621	Pass
50		5180.4370	84.3677	Pass

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5180.8558	165.2161	Pass
	120	5180.1461	28.2101	Pass
	138	5180.3901	75.3103	Pass

Product	Dual-band Wireless-AC750 Range Extender		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/20	Test Site	SR7

802.11a - 5240MHz

Temperature Interval (oC)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5240.3975	75.8530	Pass
-10		5240.5836	111.3734	Pass
0		5240.5035	96.0893	Pass
10		5240.6483	123.7150	Pass
20		5240.4879	93.1143	Pass
30		5240.6811	129.9847	Pass
40		5240.2897	55.2829	Pass
50		5240.6757	128.9564	Pass

Temperature Interval (oC)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5240.6908	131.8363	Pass
	120	5240.8812	168.1695	Pass
	138	5240.0476	9.0772	Pass

Product	Dual-band Wireless-AC750 Range Extender		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/20	Test Site	SR7

802.11n_20M - 5180MHz, ANT 0

Temperature Interval (oC)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5180.3753	72.4493	Pass
-10		5180.3217	62.0989	Pass
0		5180.1895	36.5906	Pass
10		5180.3928	75.8277	Pass
20		5180.5119	98.8208	Pass
30		5180.1279	24.6831	Pass
40		5180.0122	2.3528	Pass
50		5180.3178	61.3592	Pass

Temperature Interval (oC)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5180.0478	9.2279	Pass
	120	5180.8599	165.9950	Pass
	138	5180.0192	3.7074	Pass

Product	Dual-band Wireless-AC750 Range Extender		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/20	Test Site	SR7

802.11n_20M - 5240MHz, ANT 0

Temperature Interval (oC)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5240.6391	121.9649	Pass
-10		5240.0003	0.0571	Pass
0		5240.0848	16.1817	Pass
10		5240.4152	79.2313	Pass
20		5240.0001	0.0212	Pass
30		5240.7425	141.6970	Pass
40		5240.8049	153.6097	Pass
50		5240.7811	149.0685	Pass

Temperature Interval (oC)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5240.5164	98.5458	Pass
	120	5240.4973	94.8961	Pass
	138	5240.4050	77.2984	Pass

Product	Dual-band Wireless-AC750 Range Extender		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/20	Test Site	SR7

802.11n_40M - 5190MHz, ANT 0

Temperature Interval (oC)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5190.2782	53.5984	Pass
-10		5190.7247	139.6353	Pass
0		5190.4510	86.9007	Pass
10		5190.3194	61.5372	Pass
20		5190.4507	86.8439	Pass
30		5190.4035	77.7444	Pass
40		5190.7769	149.6892	Pass
50		5190.7410	142.7696	Pass

Temperature Interval (oC)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5190.3004	57.8894	Pass
	120	5190.6584	126.8510	Pass
	138	5190.3531	68.0390	Pass

Product	Dual-band Wireless-AC750 Range Extender		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/20	Test Site	SR7

802.11n_40M - 5230MHz, ANT 0

Temperature Interval (oC)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5230.8116	155.1767	Pass
-10		5230.7458	142.5989	Pass
0		5230.6664	127.4218	Pass
10		5230.8478	162.1089	Pass
20		5230.5145	98.3817	Pass
30		5230.1417	27.1005	Pass
40		5230.5751	109.9598	Pass
50		5230.8279	158.3078	Pass

Temperature Interval (oC)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5230.1187	22.6905	Pass
	120	5230.7843	149.9651	Pass
	138	5230.4205	80.3941	Pass

Product	Dual-band Wireless-AC750 Range Extender		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/20	Test Site	SR7

802.11ac_80M-5210MHz, ANT 0

Temperature Interval (oC)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5210.0742	14.2441	Pass
-10		5210.8452	162.2213	Pass
0		5210.5010	96.1699	Pass
10		5210.3988	76.5461	Pass
20		5210.2645	50.7649	Pass
30		5210.7317	140.4344	Pass
40		5210.1274	24.4624	Pass
50		5210.2054	39.4281	Pass

Temperature Interval (oC)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5210.4632	88.9005	Pass
	120	5210.6407	122.9738	Pass
	138	5210.2911	55.8767	Pass