

FCC Test Report

Product Name : Dual-Band Wireless N-600 Range Extender

Trade Name : ASUS

Model No. : RP-N53, RP-N54

FCC ID. : MSQ-RPN53

Applicant : ASUSTeK COMPUTER INC.

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

Date of Receipt : Jan. 30, 2016

Issued Date : Mar. 21, 2016

Report No. : 1620104R-RFUSP37V00

Report Version : V1.0



The test results relate only to the samples tested.

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Test Report Certification

Issued Date : Mar. 21, 2016

Report No. : 1620104R-RFUSP37V00



a  DEKRA company

Product Name : Dual-Band Wireless N-600 Range Extender
 Applicant : ASUSTeK COMPUTER INC.
 Address : 4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan
 Manufacturer : ASUSTeK COMPUTER INC.
 Model No. : RP-N53, RP-N54
 FCC ID. : MSQ-RPN53
 EUT Voltage : AC 100-240V, 50-60Hz
 Testing Voltage : AC 120V/60Hz
 Trade Name : ASUS
 Applicable Standard : FCC CFR Title 47 Part 15 Subpart E Section 15.407: 2014
 ANSI C63.10: 2013
 Test Lab : QuieTek Hsin Chu Laboratory
 Test Result : Complied

The test results relate only to the samples tested.

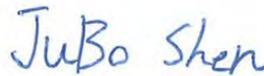
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Documented By :



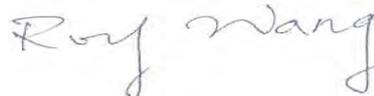
(Demi Chang / Engineering Adm. Specialist)

Tested By :



(JuBo Shen / Senior Engineer)

Approved By :



(Roy Wang / Director)

Revision History

Report No.	Version	Description	Issued Date
133212R-RFUSP42V01	V1.0	Initial issue of report	Jun. 14, 2013
139108R-RFUSP42V01	V1.0	Update EUT photo for add a sample that with heat sink holes.	Sep. 16, 2013
1590468R-RFUSP27V00	V1.0	Add one model name (RP-N54).	Oct. 05, 2015
1620104R-RFUSP37V00	V1.0	Update WLAN 5G band 4 standard to FCC 15.407:2014.	Mar. 21, 2016

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: 181665 / IC Registration Number: 4075C-4

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:

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LinKou Testing Laboratory:

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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

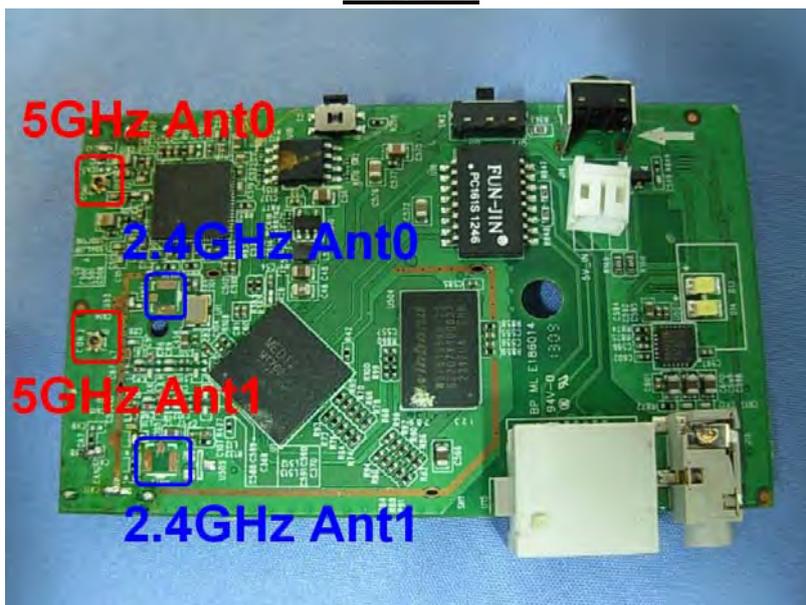
Product Name	Dual-Band Wireless N-600 Range Extender	
Trade Name	ASUS	
Model No.	RP-N53, RP-N54	
Frequency Range/ Channel Number	IEEE 802.11a/ IEEE 802.11n (20MHz)	5745~5825MHz / 5 Channels
	IEEE 802.11n (40MHz)	5755~5795MHz / 2 Channels
Type of Modulation	IEEE 802.11a/n	Orthogonal Frequency Division 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 15 and bandwidth defined in 802.11n

Antenna Information	
Antenna Type	PIFA Antenna
Antenna Gain	5G Band 4: 3.5dBi

ANT-TX / RX & Bandwidth

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

2TX / 2RX



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

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
8	BPSK	1/2	1	104	216	52	108	13.0	27.0	14.4	30.0
9	QPSK	1/2	2	208	432	104	216	26.0	54.0	28.9	60.0
10	QPSK	3/4	2	208	432	156	324	39.0	81.0	43.3	90.0
11	16-QAM	1/2	4	416	864	208	432	52.0	108.0	57.8	120.0
12	16-QAM	3/4	4	416	864	312	648	78.0	162.0	86.7	180.0
13	64-QAM	2/3	6	624	1296	416	864	104.0	216.0	115.6	240.0
14	64-QAM	3/4	6	624	1296	468	972	117.0	243.0	130.0	270.0
15	64-QAM	5/6	6	624	1296	520	1080	130.0	270.0	144.4	300.0

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

Table 2 – MCS parameters for TX Antenna number = 2

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 802.11a & IEEE 802.11n (20MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
149	5745 MHz	153	5765 MHz	157	5785 MHz	161	5805 MHz
165	5825 MHz						

IEEE 802.11n (40MHz)

Working Frequency of Each Channel			
Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

Note:

1. This device is a Dual-Band Wireless N-600 Range Extender including 2.4GHz b (2x2) and 5GHz a/n (2x2) transmitting and receiving function.
2. The variation of model number is for different strategy of marketing.
3. These test results on a sample of the device are for the purpose of demonstrating Compliance with Part 15 Subpart E Paragraph 15.407.
4. 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.
5. The lowest and highest data rates were tested. Only the worst case is shown in the report.
6. The function of the 5.2GHz transmitting is measured and makes a test report of the report number: 1620104R-RFUSP57V00 and 2.4GHz report number:1590468R-RFUSP27V00.
7. This device has Ethernet ports, which can be connected to computer. It is a Class B personal computer and peripheral. Its test report number is 1590468R-RFUSP01V00.

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
----	------------------

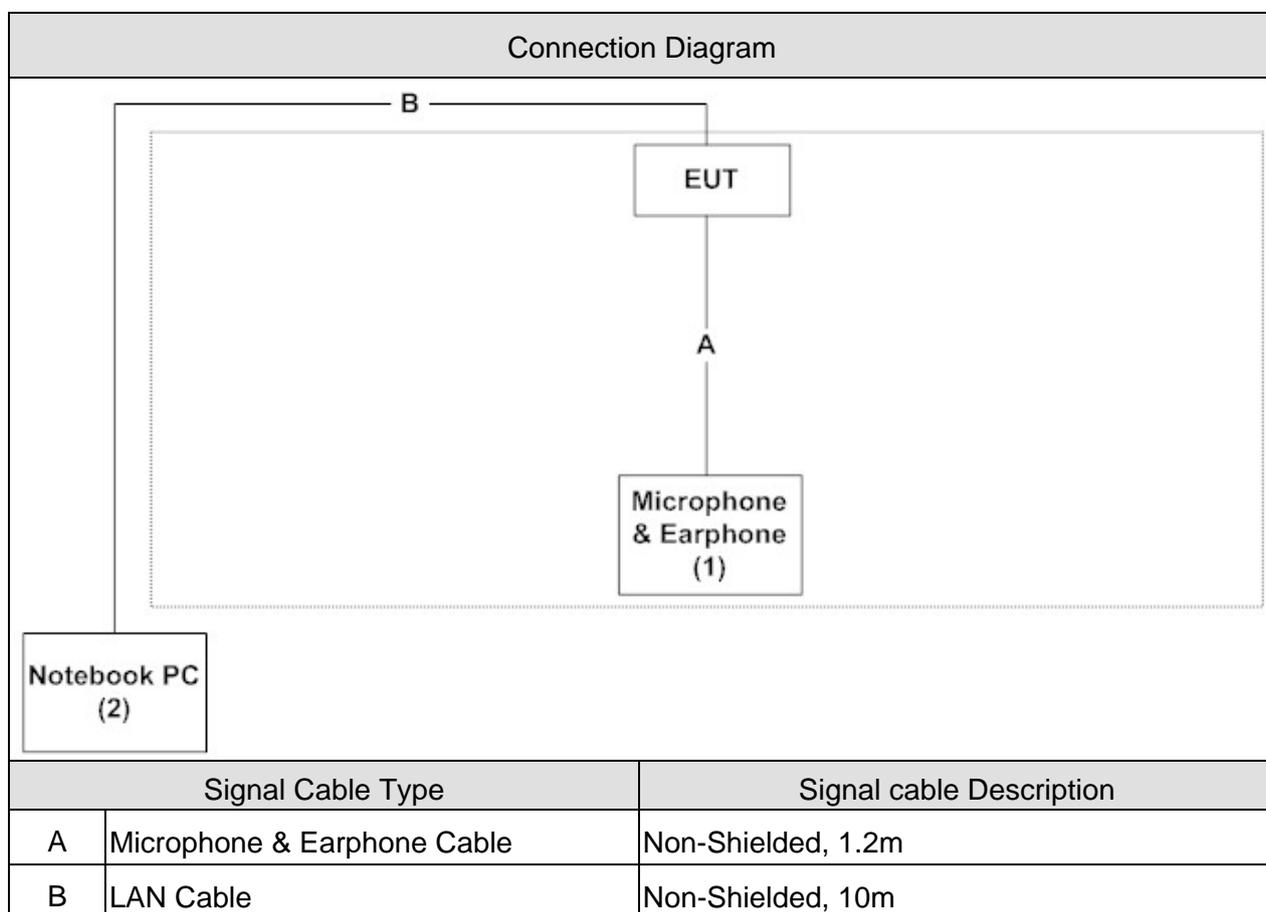
Test Items	Modulation	Channel	Antenna	Result
Conducted Emission	11n(40MHz)	159	0+1	Complies
99 % & 26dB Bandwidth	11a	149/ 157/ 165	0/1	Complies
	11n(20MHz)	149/ 157/ 165	0/1	Complies
	11n(40MHz)	151/ 159	0/1	Complies
Peak Transmit Output	11a	149/ 157/ 165	0+1	Complies
	11n(20MHz)	149/ 157/ 165	0+1	Complies
	11n(40MHz)	151/ 159	0+1	Complies
Power Density	11a	149/ 157/ 165	0+1	Complies
	11n(20MHz)	149/ 157/ 165	0+1	Complies
	11n(40MHz)	151/ 159	0+1	Complies
Radiated Emission	11a	149/ 157/ 165	0+1	Complies
	11n(20MHz)	149/ 157/ 165	0+1	Complies
	11n(40MHz)	151/ 159	0+1	Complies
Band Edge	11a	149/ 157/ 165	0+1	Complies
	11n(20MHz)	149/ 157/ 165	0+1	Complies
	11n(40MHz)	151/ 159	0+1	Complies
Frequency Stability	11a	149/ 157/ 165	0/1	Complies
	11n(20MHz)	149/ 157/ 165	0/1	Complies
	11n(40MHz)	151/ 159	0/1	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	Samsung	N/A	N/A	DoC	--
2 Notebook PC	ACER	MS2296	LUSCV021391 150332C2000	DoC	Non-Shielded, 2.5m one ferrite core bonded

1.4. Configuration of tested System



1.5. EUT Exercise Software

1	Setup the EUT as shown in Section 1.4.
2	Execute the control program "RT5x9xQA" for 5G function on the Notebook.
3	Configure the test mode, the test channel, and the data rate.
4	Press "Start TX" 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°C
Humidity (%RH)		25 - 75	50%RH
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 E 15.407 99 % & 26dB Bandwidth	15 - 35	25°C
Humidity (%RH)		25 - 75	45%RH
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 E 15.407 Peak Transmit Power	15 - 35	25°C
Humidity (%RH)		25 - 75	65%RH
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 E 15.407 Power Density	15 - 35	25°C
Humidity (%RH)		25 - 75	45%RH
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 E 15.407 Radiated Emission	15 - 35	25°C
Humidity (%RH)		25 - 75	45%RH
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 E 15.407 Band Edge	15 - 35	25°C
Humidity (%RH)		25 - 75	45%RH
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 E 15.407 Frequency Stability	15 - 35	25°C
Humidity (%RH)		25 - 75	45%RH
Barometric pressure (mbar)		860 - 1060	950-1000

2. Conducted Emission

2.1. Test Equipment

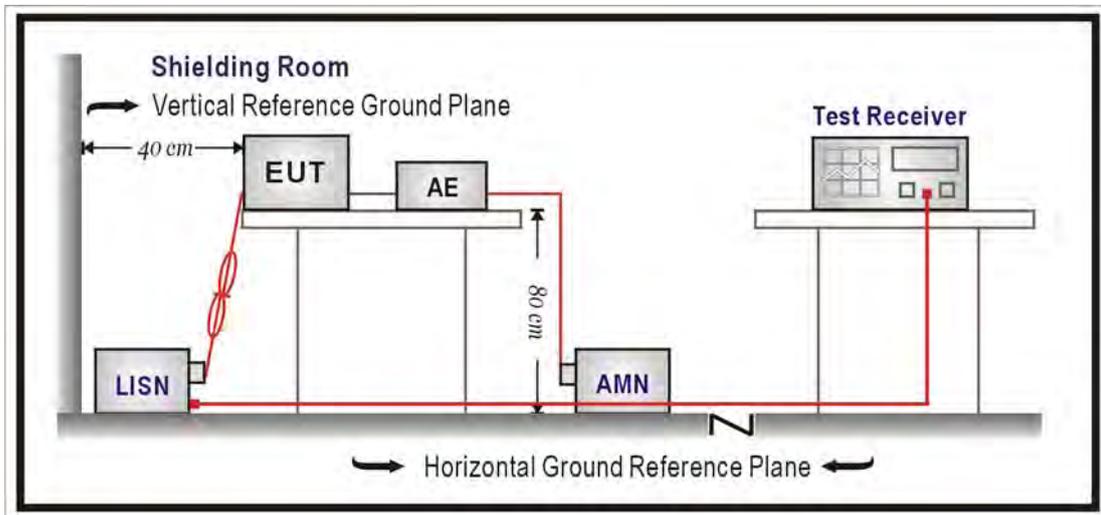
The following test equipments are used during the test:

Conducted Emission / SR3

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
LISN	R&S	ENV216	100096	2013/08/12
LISN	R&S	ESH3-Z5	836679/022	2014/01/20
Test Receiver	R&S	ESCS 30	825442/017	2014/01/01

Note: 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

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

2.4. Test Procedure

The EUT was setup according to ANSI C63.10:2013. 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

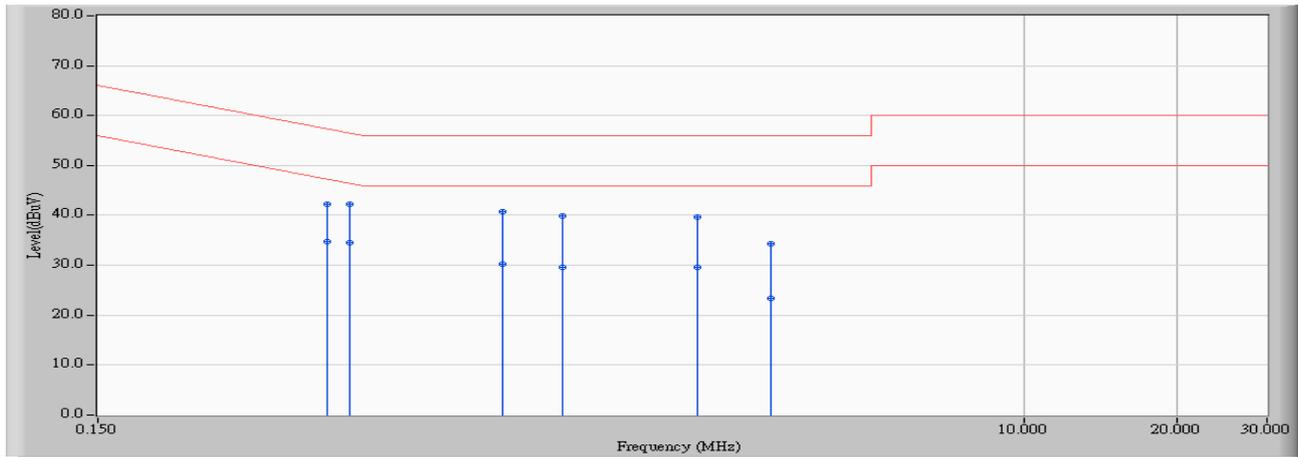
According to FCC Part 15 Subpart C Paragraph 15.207: 2014

2.6. Uncertainty

The measurement uncertainty is defined as ± 2.26 dB.

2.7. Test Result

Site : SR3	Time : 2013/04/29 - 17:43
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR3_LISN(16A)-2_0813 - Line1	Power : AC 120V/60Hz
EUT : Dual-Band Wireless N-600 Range Extender	Note : Mode 1: Transmit-5.8GHz

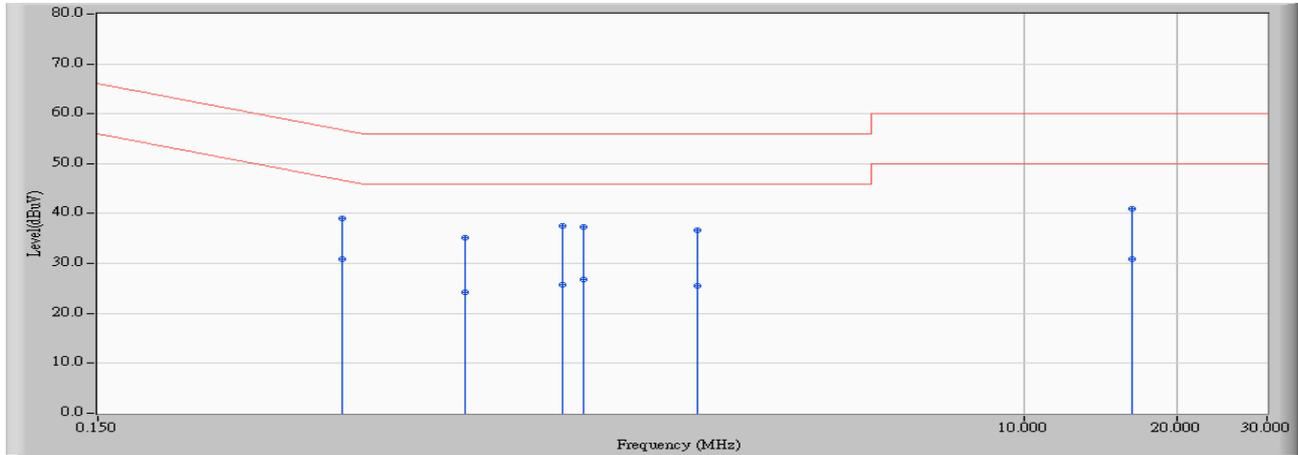


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.423	9.786	32.500	42.286	-15.094	57.380	QUASPEAK
2	0.423	9.786	24.980	34.766	-12.614	47.380	AVERAGE
3	0.469	9.813	32.390	42.203	-14.330	56.533	QUASPEAK
4	*	9.813	24.650	34.463	-12.070	46.533	AVERAGE
5	0.939	9.927	30.800	40.727	-15.273	56.000	QUASPEAK
6	0.939	9.927	20.400	30.327	-15.673	46.000	AVERAGE
7	1.228	9.945	29.990	39.935	-16.065	56.000	QUASPEAK
8	1.228	9.945	19.730	29.675	-16.325	46.000	AVERAGE
9	2.275	9.976	29.670	39.646	-16.354	56.000	QUASPEAK
10	2.275	9.976	19.710	29.686	-16.314	46.000	AVERAGE
11	3.170	10.028	24.360	34.388	-21.612	56.000	QUASPEAK
12	3.170	10.028	13.380	23.408	-22.592	46.000	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 : 2013/04/29 - 17:47
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR3_LISN(16A)-2_0813 - Line2	Power : AC 120V/60Hz
EUT : Dual-Band Wireless N-600 Range Extender	Note : Mode 1: Transmit-5.8GHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.455	9.795	29.190	38.984	-17.805	56.789	QUASPEAK
2	*	0.455	9.795	21.100	30.894	-15.895	46.789	AVERAGE
3		0.791	9.885	25.200	35.084	-20.916	56.000	QUASPEAK
4		0.791	9.885	14.380	24.264	-21.736	46.000	AVERAGE
5		1.232	9.932	27.530	37.462	-18.538	56.000	QUASPEAK
6		1.232	9.932	15.880	25.812	-20.188	46.000	AVERAGE
7		1.357	9.934	27.280	37.214	-18.786	56.000	QUASPEAK
8		1.357	9.934	16.920	26.854	-19.146	46.000	AVERAGE
9		2.267	9.952	26.620	36.572	-19.428	56.000	QUASPEAK
10		2.267	9.952	15.620	25.572	-20.428	46.000	AVERAGE
11		16.279	10.236	30.730	40.966	-19.034	60.000	QUASPEAK
12		16.279	10.236	20.600	30.836	-19.164	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 Bandwidth

3.1. Test Equipment

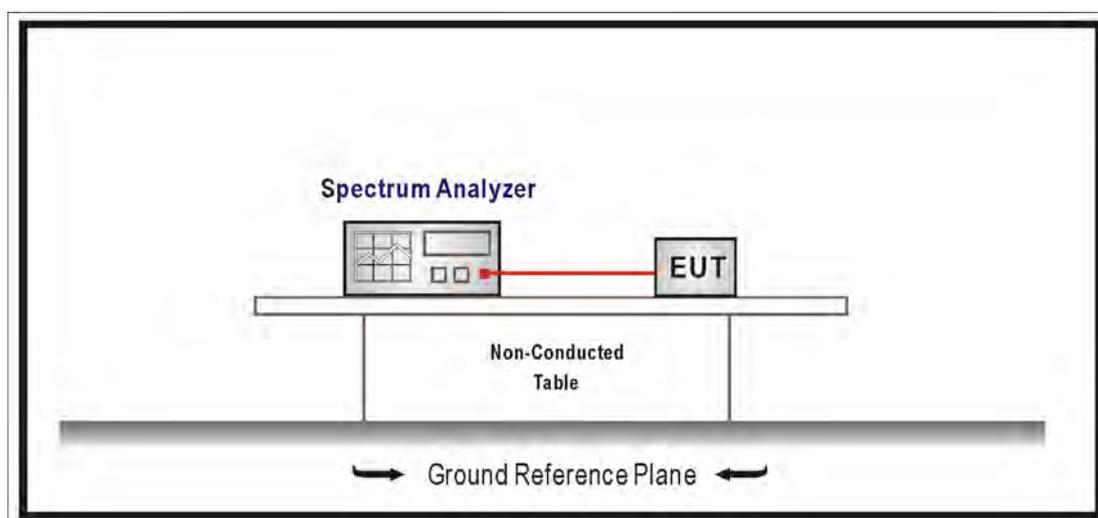
The following test equipments are used during the radiated emission tests:

99% & 26dB Bandwidth / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2016/08/23
Signal & Spectrum Analyzer	R&S	FSV40	101049	2017/01/05
Signal Analyzer	R&S	FSV7	101650	2016/11/30

Note: 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

The EUT was tested according to U-NII test procedure of 789033 D02 General UNII Test Procedures New Rules v01r01

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

3.5. Uncertainty

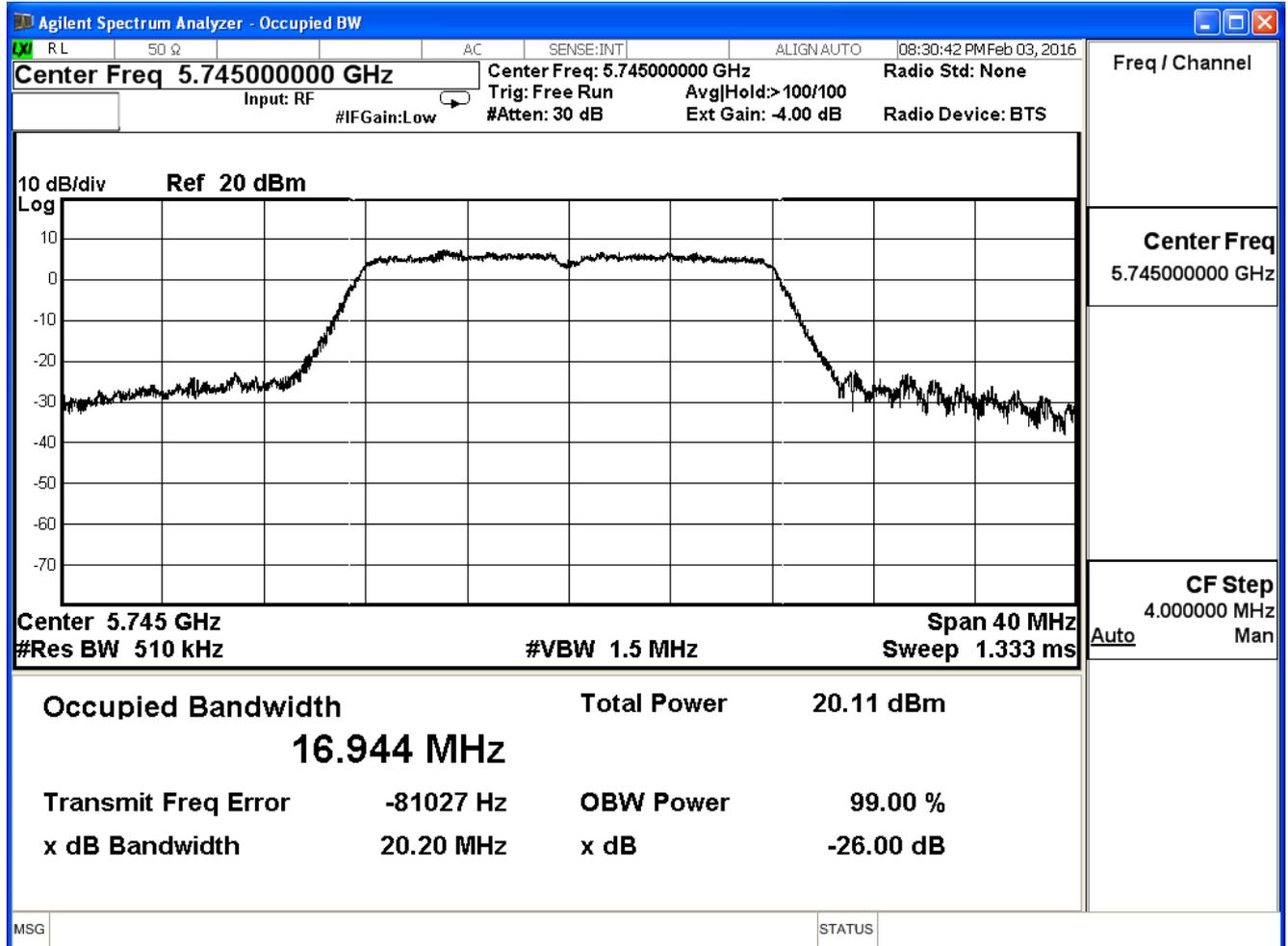
The measurement uncertainty is defined as $\pm 150\text{Hz}$

3.6. Test Result

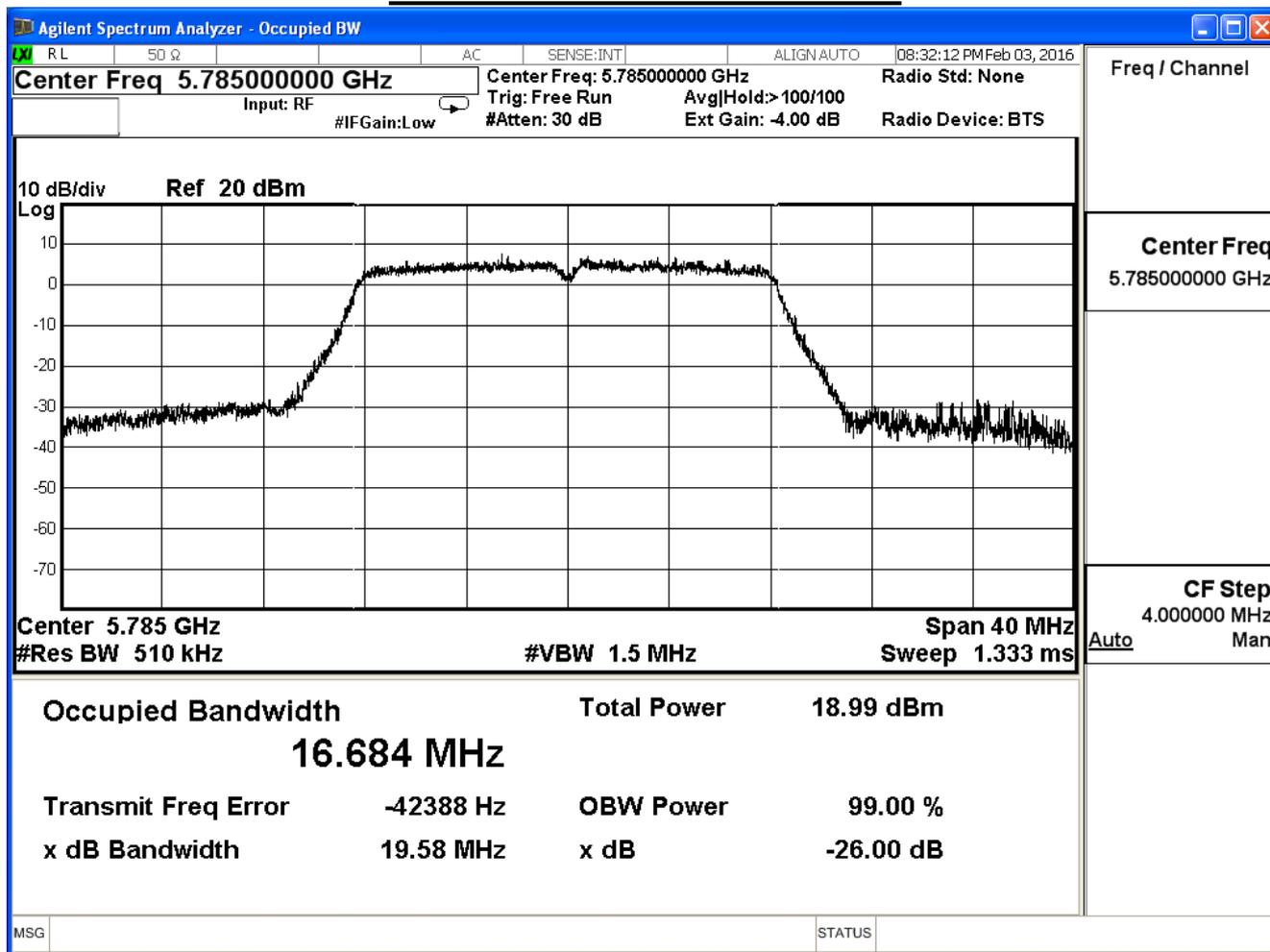
Product	Dual-Band Wireless N-600 Range Extender		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2016/02/03	Test Site	SR7

802.11a (ANT 0)				
Channel No.	Frequency (MHz)	26dB BW (MHz)	99 % OBW (MHz)	Limit (MHz)
149	5745	20.20	16.94	--
157	5785	19.58	16.68	--
165	5825	21.54	16.91	--

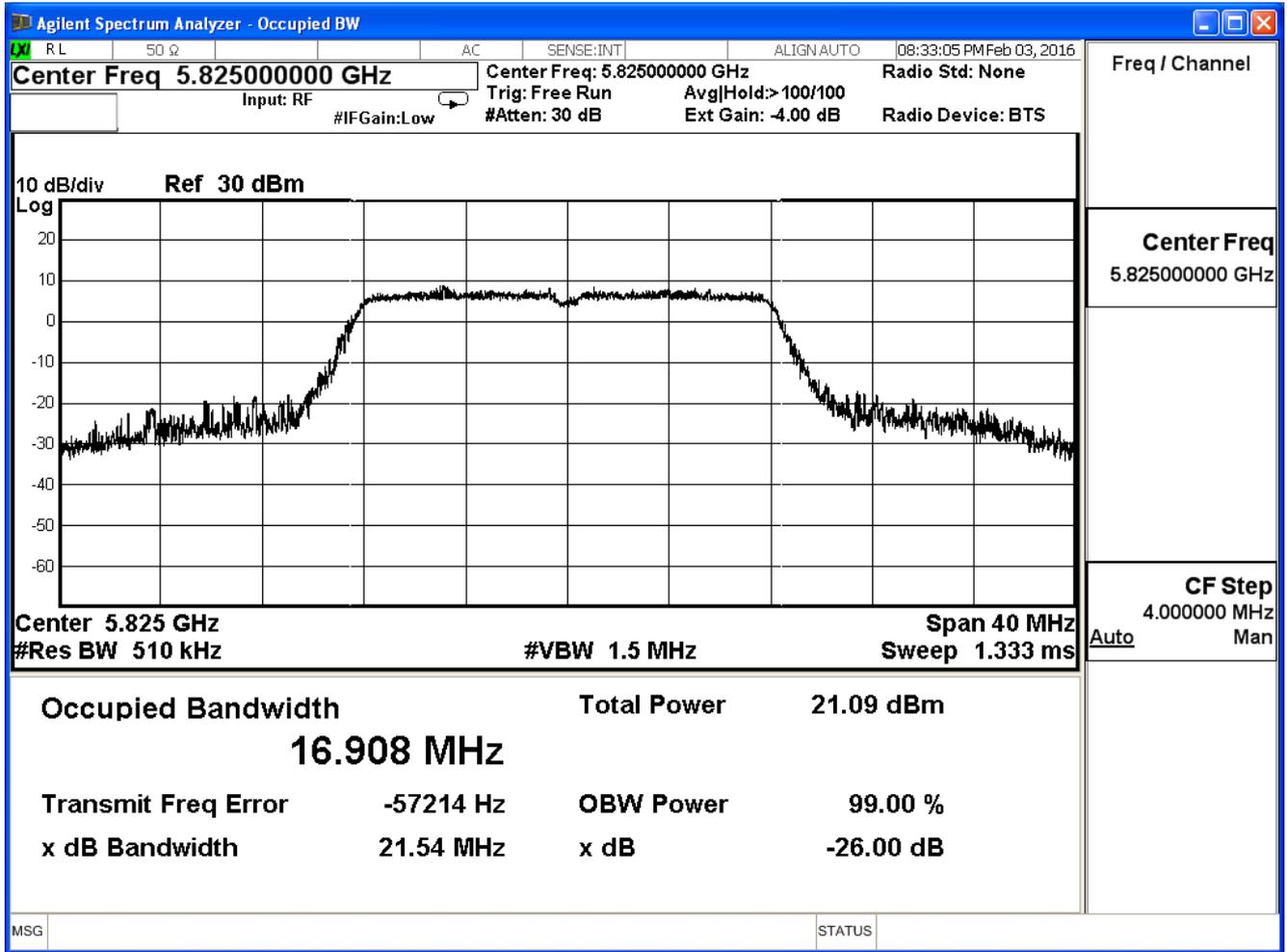
99% & 26dB Bandwidth – Channel 149



99% & 26dB Bandwidth – Channel 157



99% & 26dB Bandwidth – Channel 165

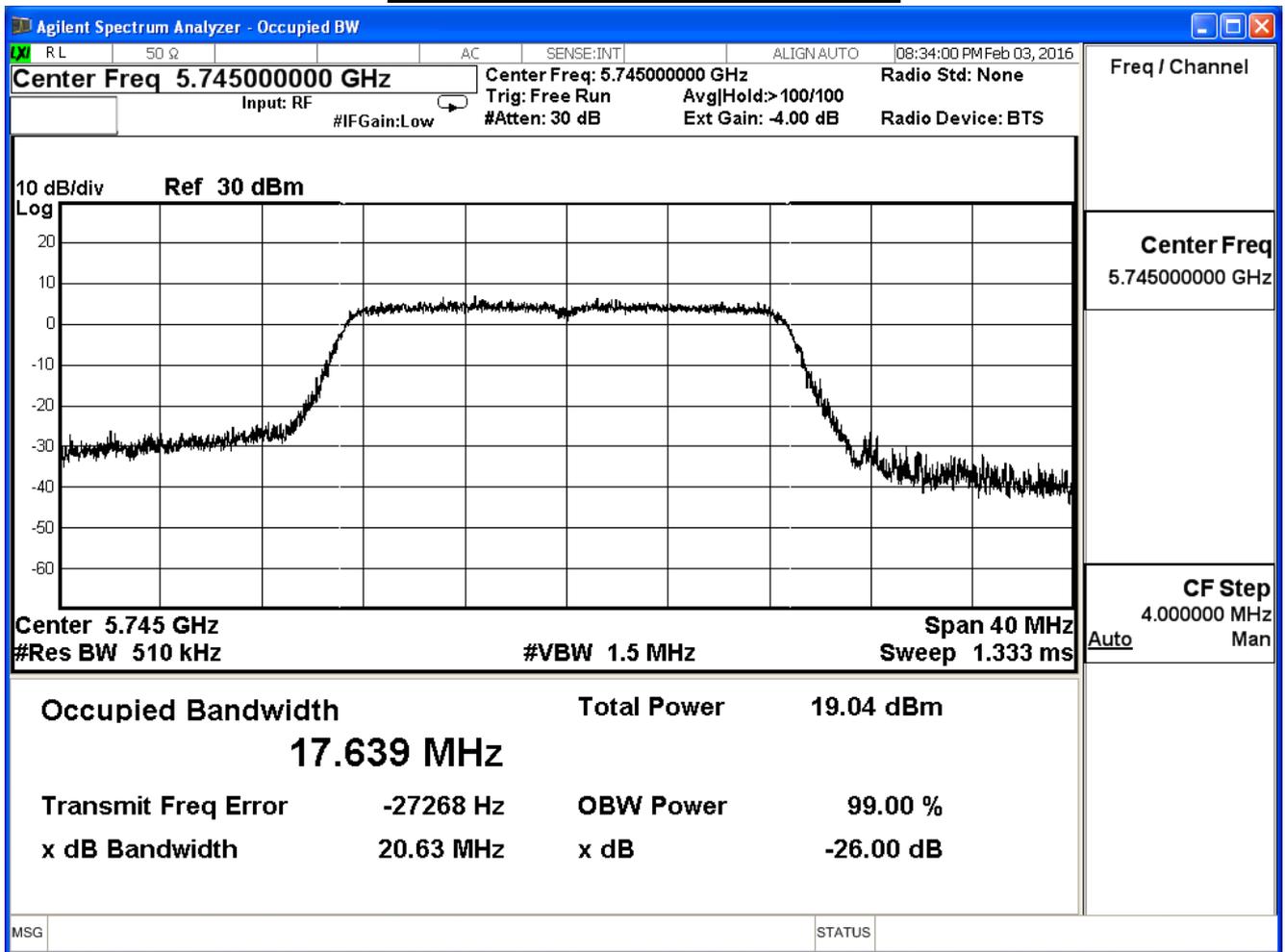


Product	Dual-Band Wireless N-600 Range Extender		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2016/02/03	Test Site	SR7

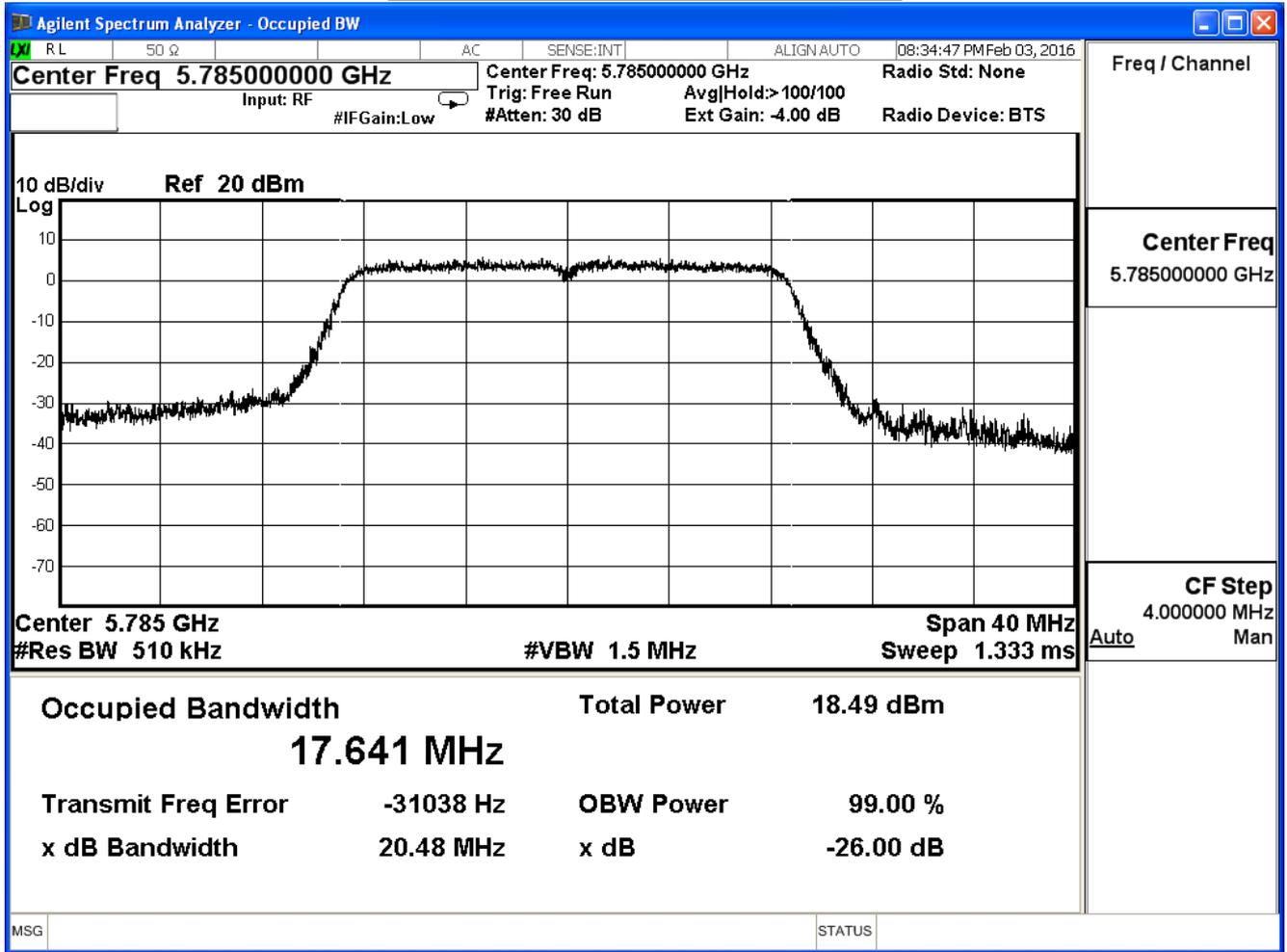
802.11n_20M(ANT 0)

Channel No.	Frequency (MHz)	26dB BW (MHz)	99 % OBW (MHz)	Limit (MHz)
149	5745	20.63	17.64	--
157	5785	20.48	17.64	--
165	5825	20.57	17.63	--

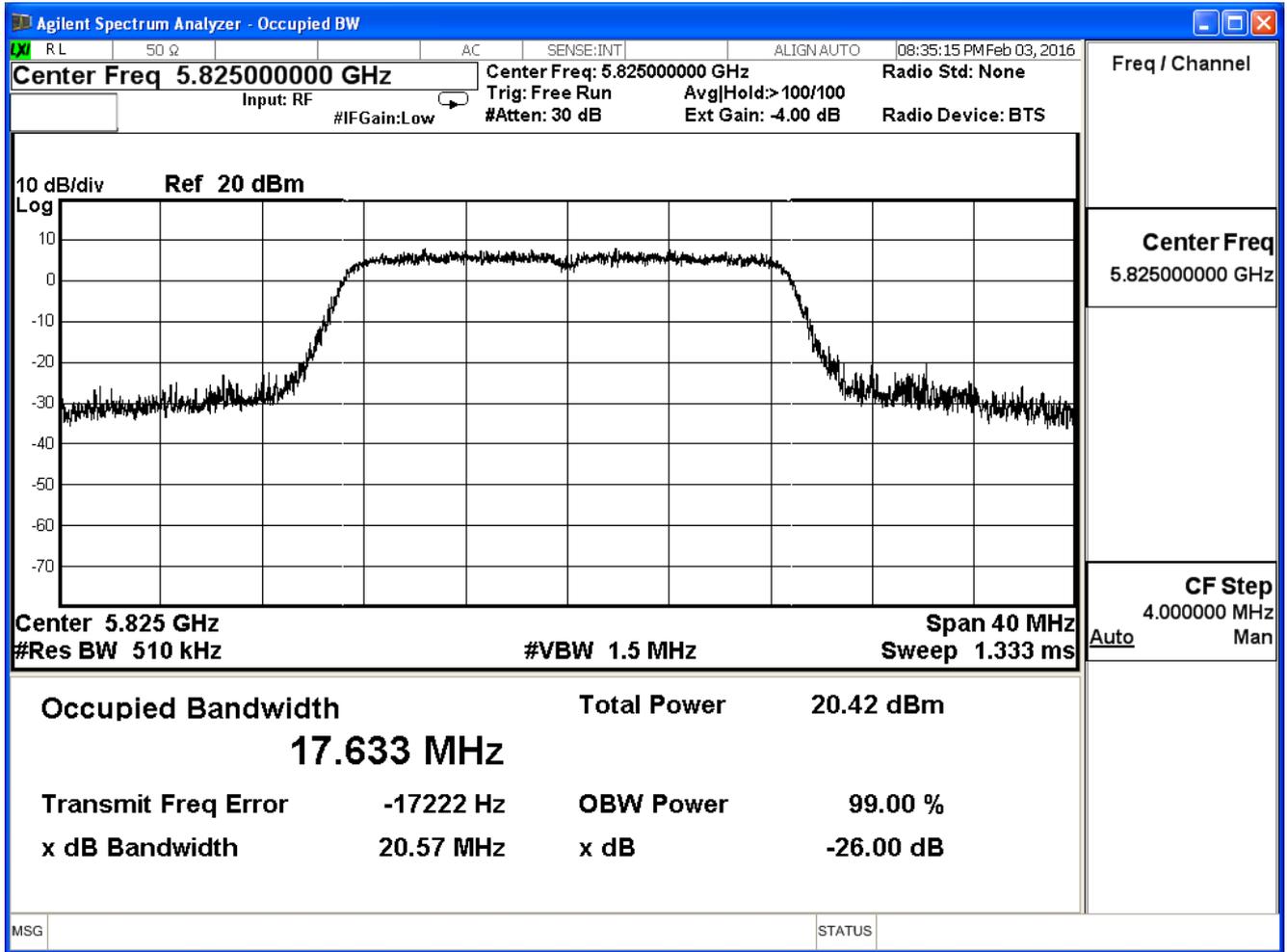
99% & 26dB Bandwidth – Channel 149



99% & 26dB Bandwidth – Channel 157



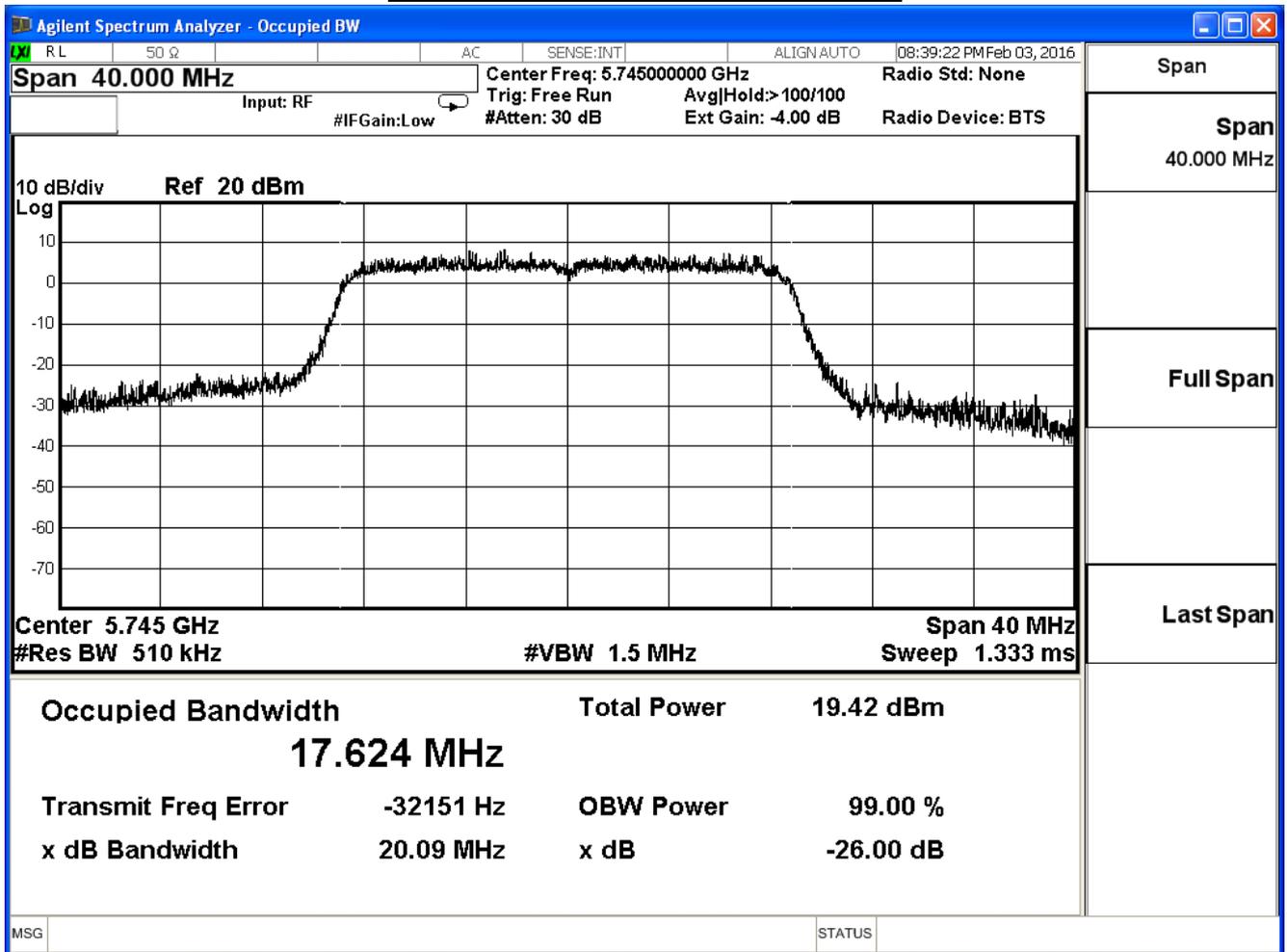
99% & 26dB Bandwidth – Channel 165



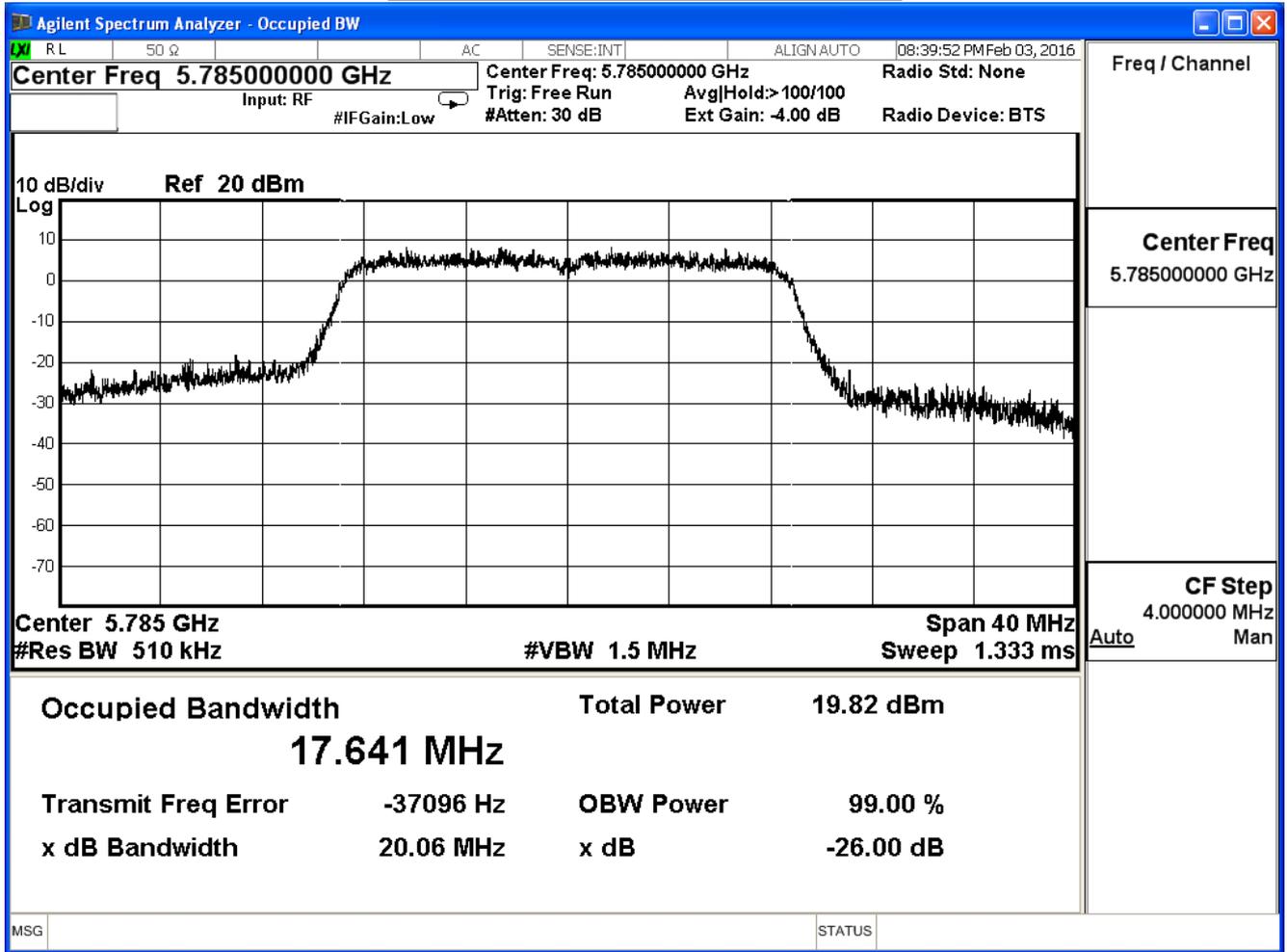
Product	Dual-Band Wireless N-600 Range Extender		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2016/02/03	Test Site	SR7

802.11n_20M(ANT 1)				
Channel No.	Frequency (MHz)	26dB BW (MHz)	99 % OBW (MHz)	Limit (MHz)
149	5745	20.09	17.62	--
157	5785	20.06	17.64	--
165	5825	20.32	17.64	--

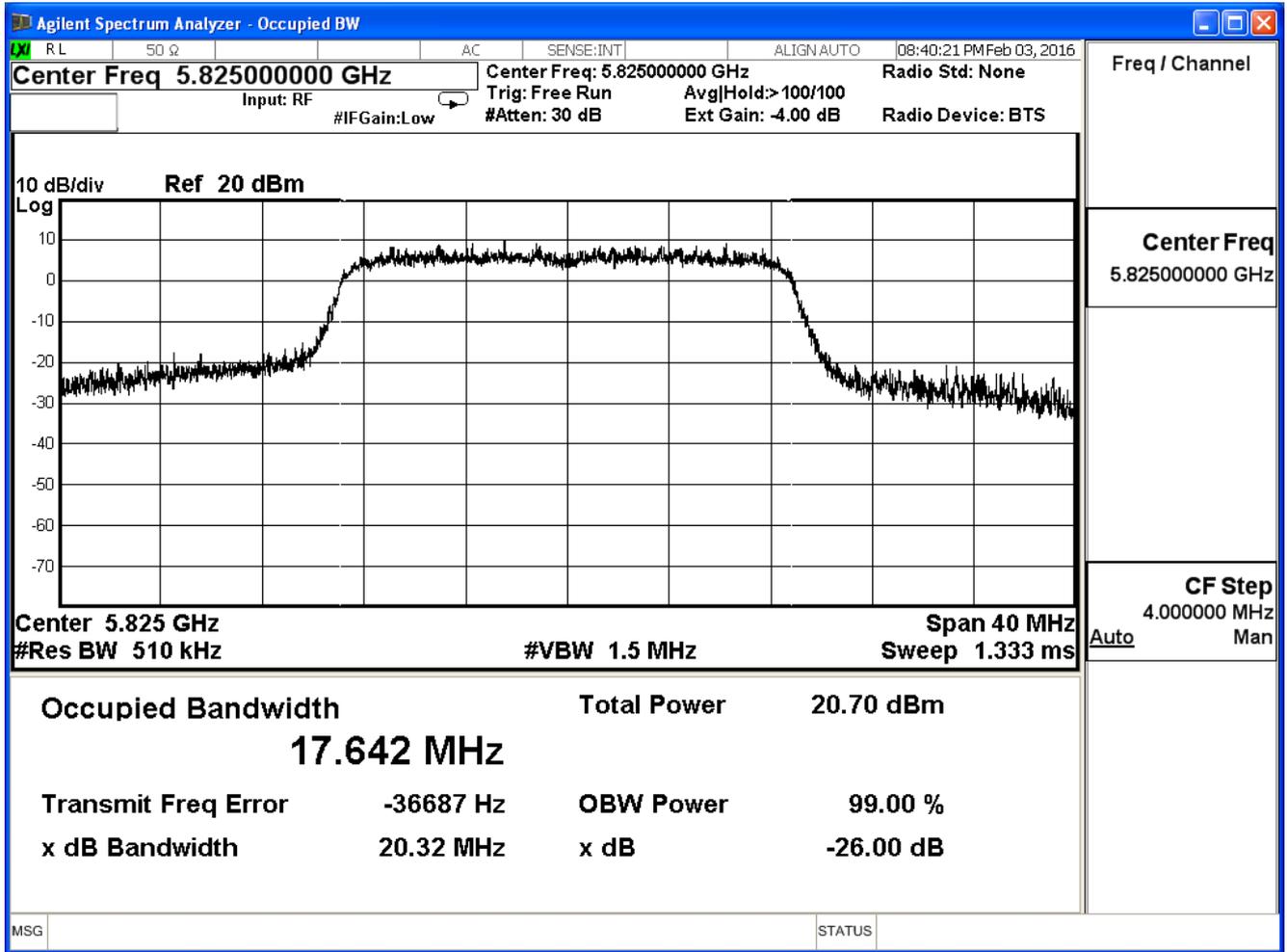
99% & 26dB Bandwidth – Channel 149



99% & 26dB Bandwidth – Channel 157



99% & 26dB Bandwidth – Channel 165

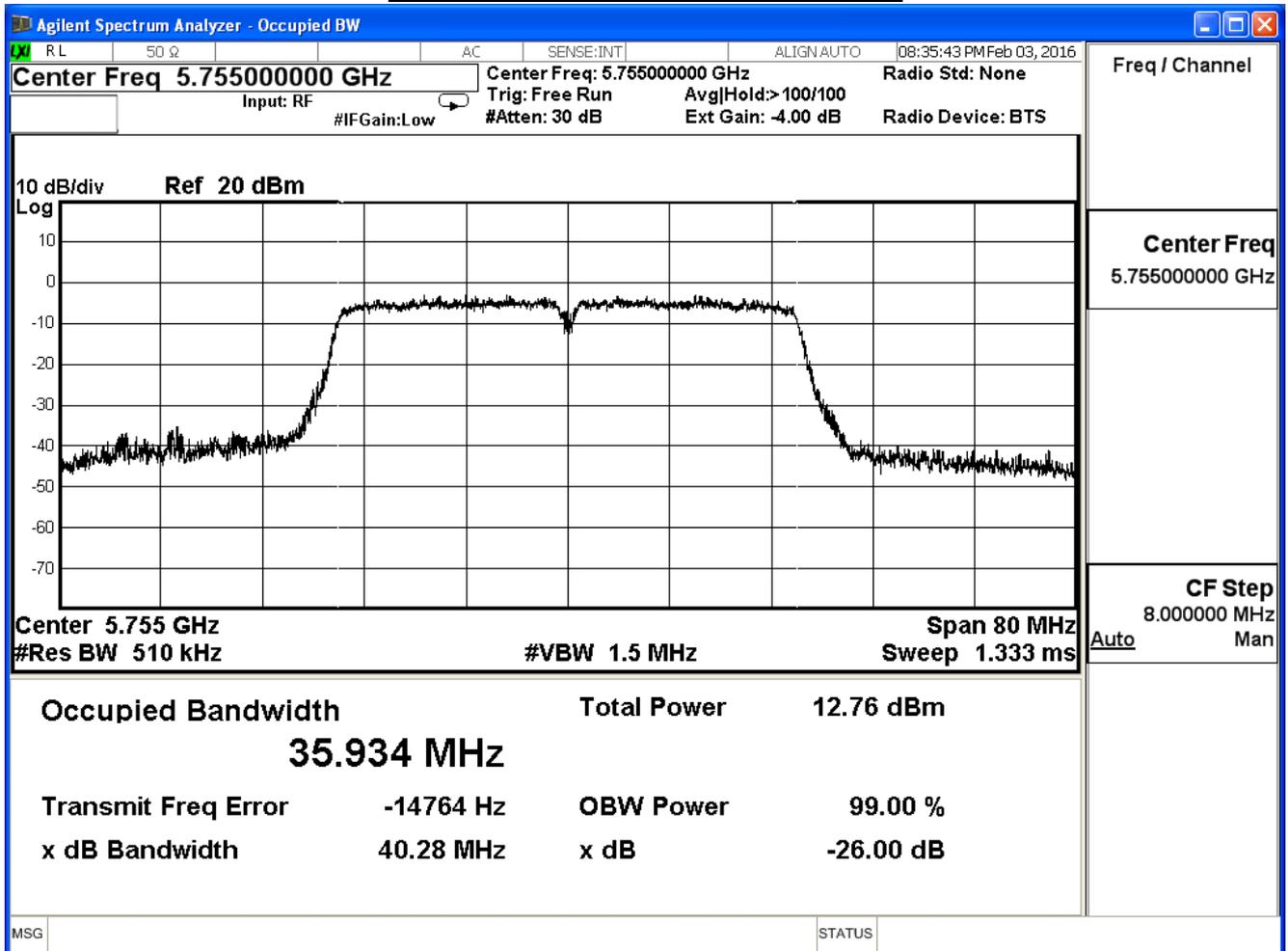


Product	Dual-Band Wireless N-600 Range Extender		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2016/02/03	Test Site	SR7

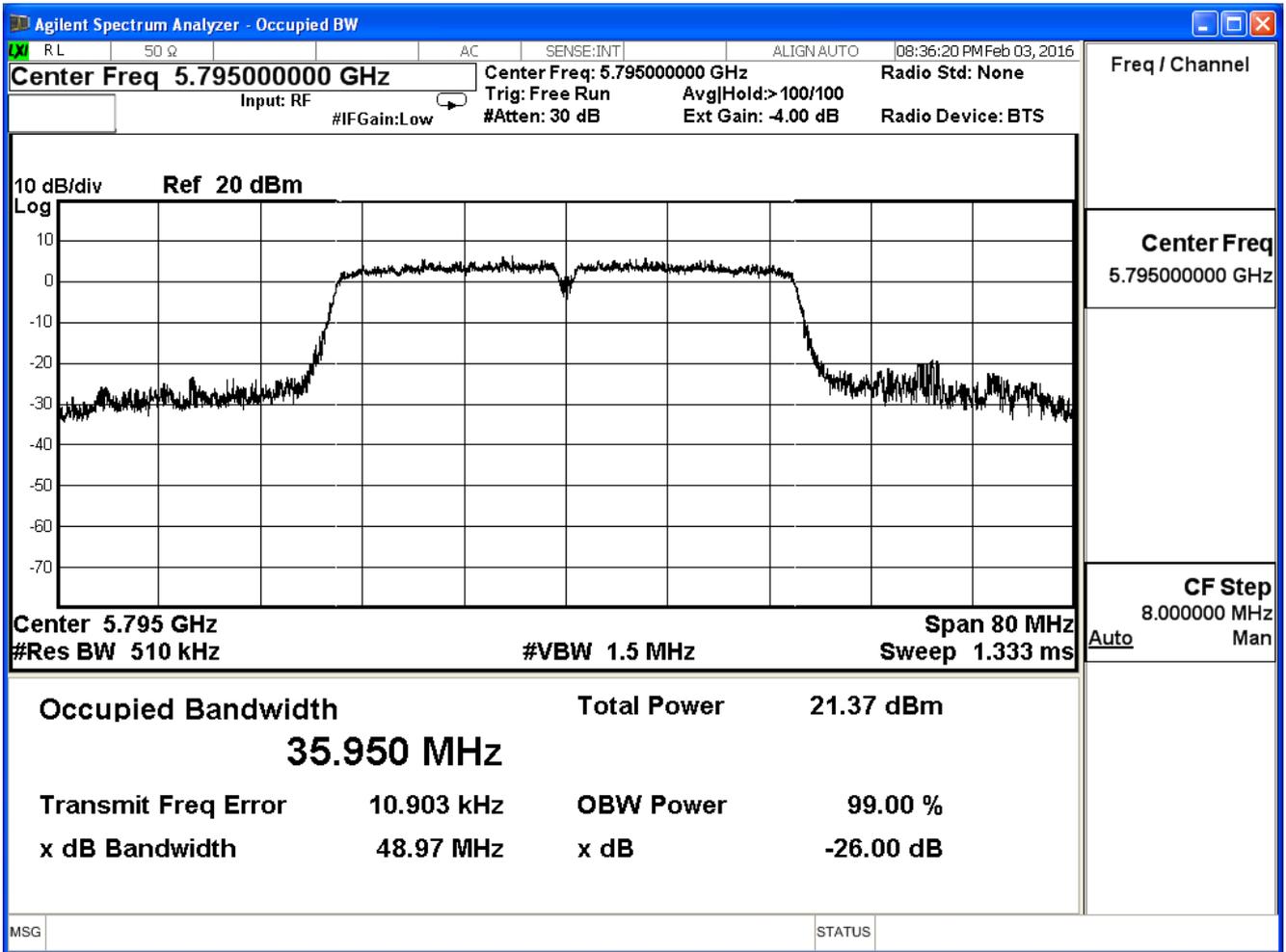
802.11n_40M(ANT 0)

Channel No.	Frequency (MHz)	26dB BW (MHz)	99 % OBW (MHz)	Limit (MHz)
151	5755	40.28	35.93	--
159	5795	48.97	35.95	--

99% & 26dB Bandwidth – Channel 151



99% & 26dB Bandwidth – Channel 159

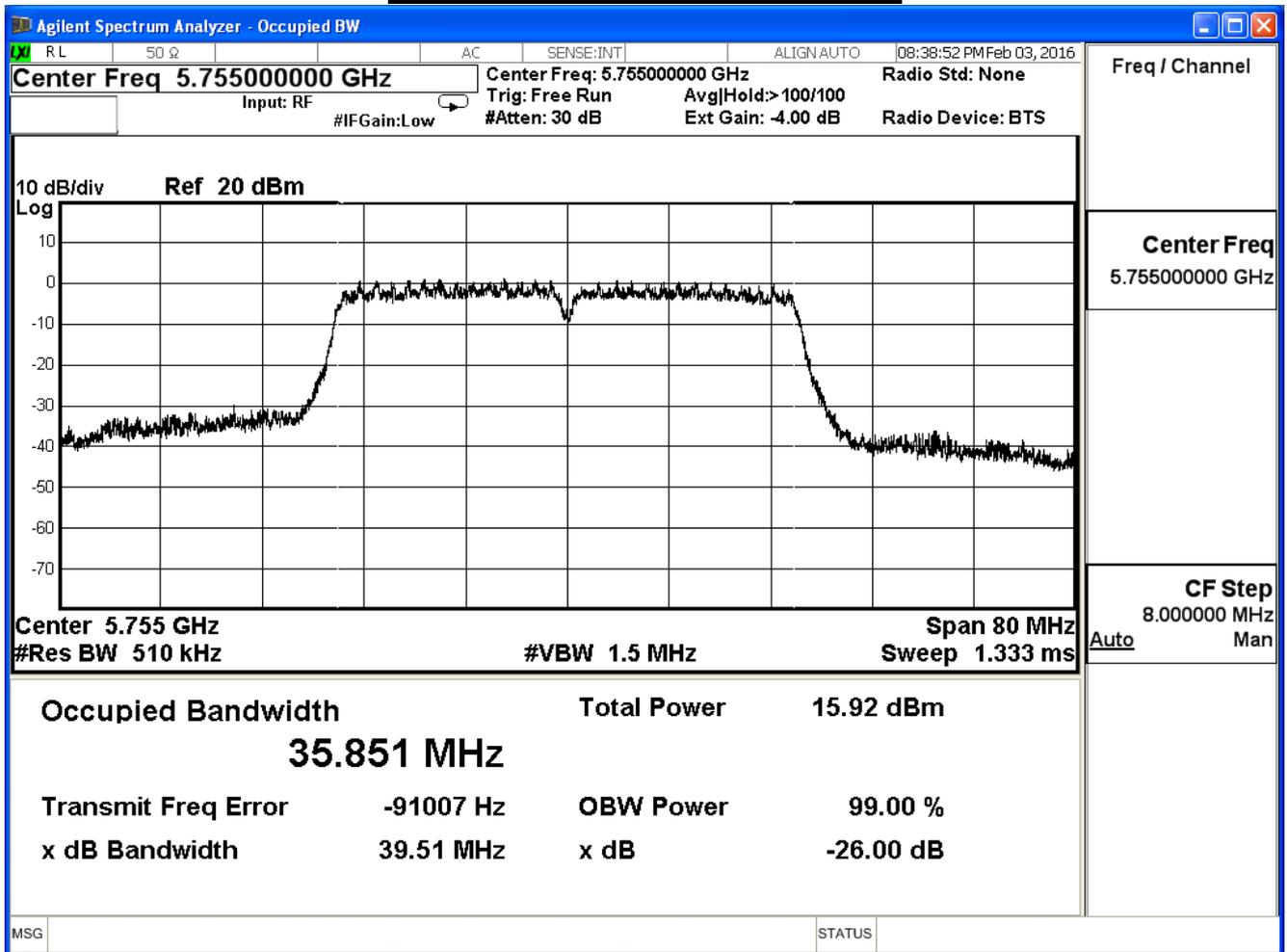


Product	Dual-Band Wireless N-600 Range Extender		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2016/02/03	Test Site	SR7

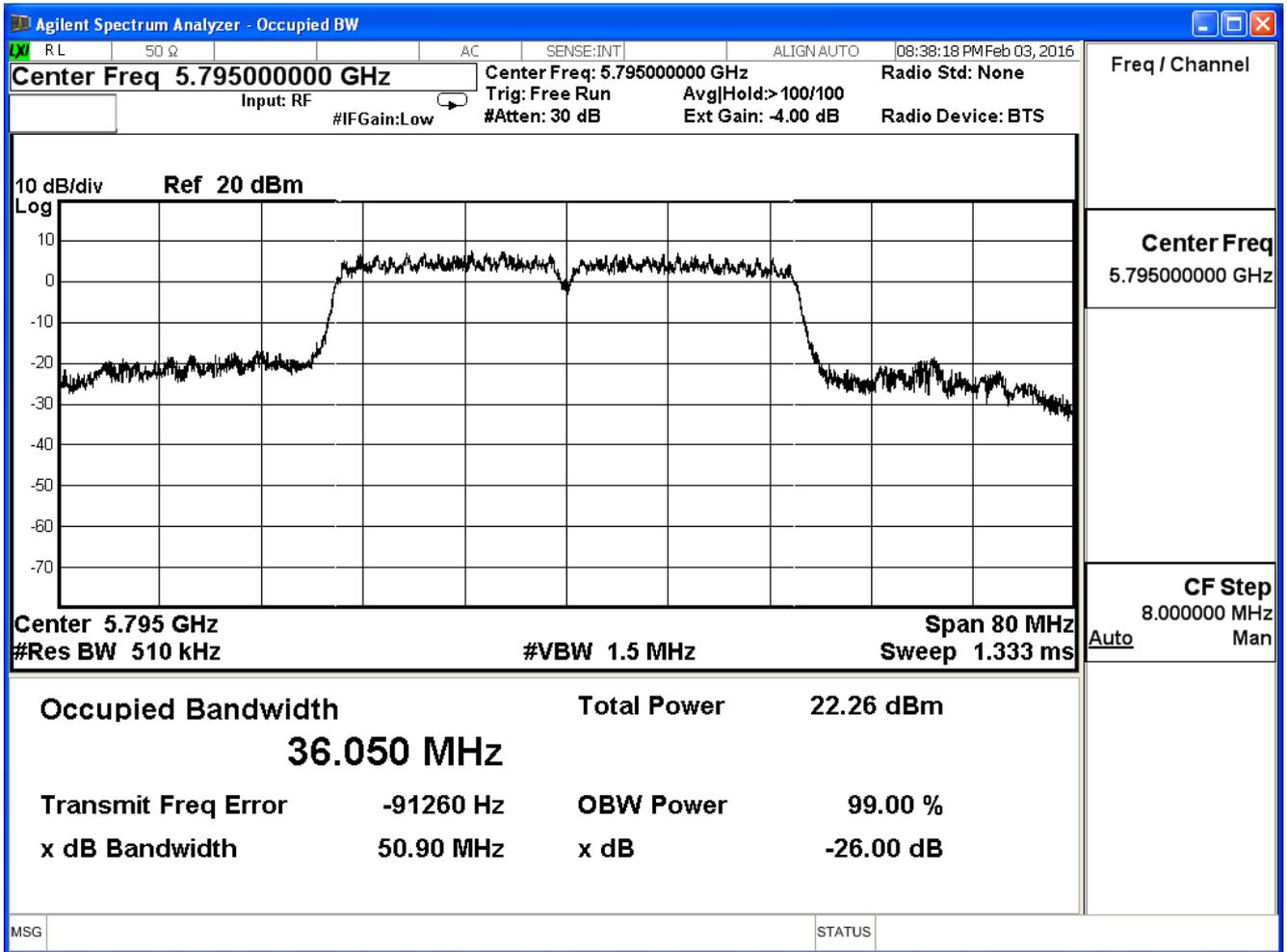
802.11n_40M(ANT 1)

Channel No.	Frequency (MHz)	26dB BW (MHz)	99 % OBW (MHz)	Limit (MHz)
151	5755	39.51	35.85	--
159	5795	50.90	36.05	--

99% & 26dB Bandwidth – Channel 151



99% & 26dB Bandwidth – Channel 159

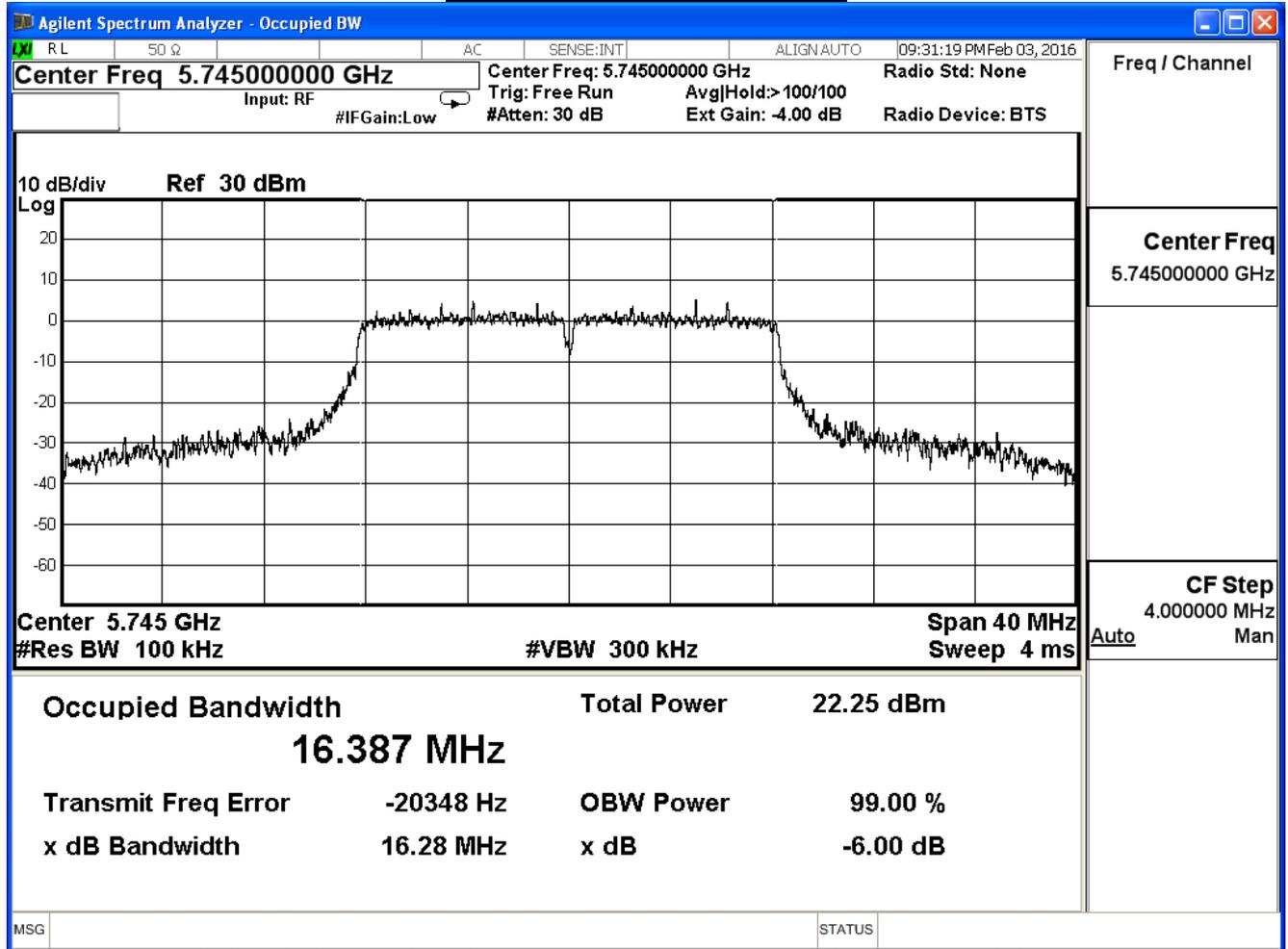


Product	Dual-Band Wireless N-600 Range Extender		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2016/02/03	Test Site	SR7

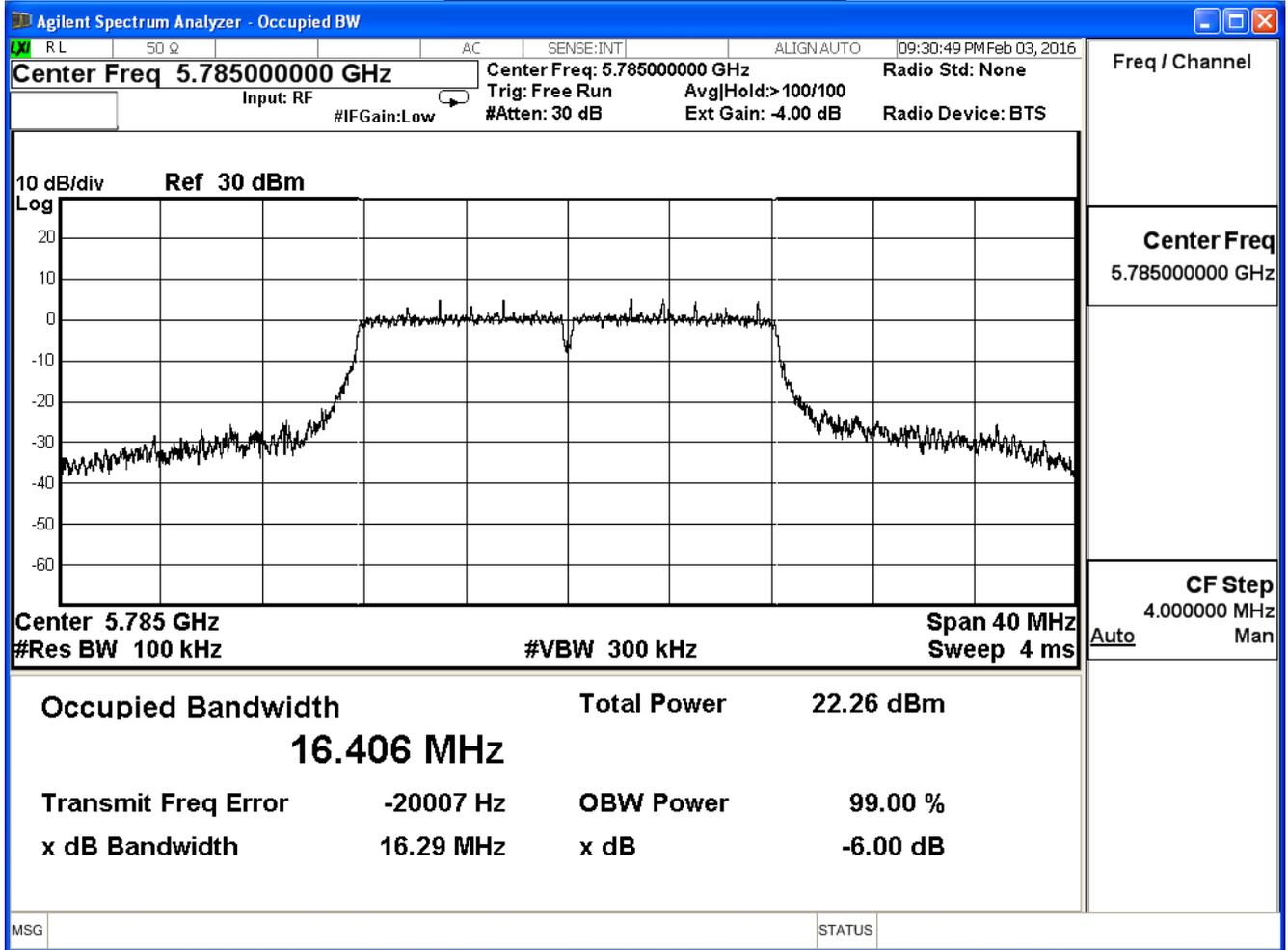
802.11 a (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
149	5745	16.28	≥ 0.5	Pass
157	5785	16.29	≥ 0.5	Pass
165	5825	16.31	≥ 0.5	Pass

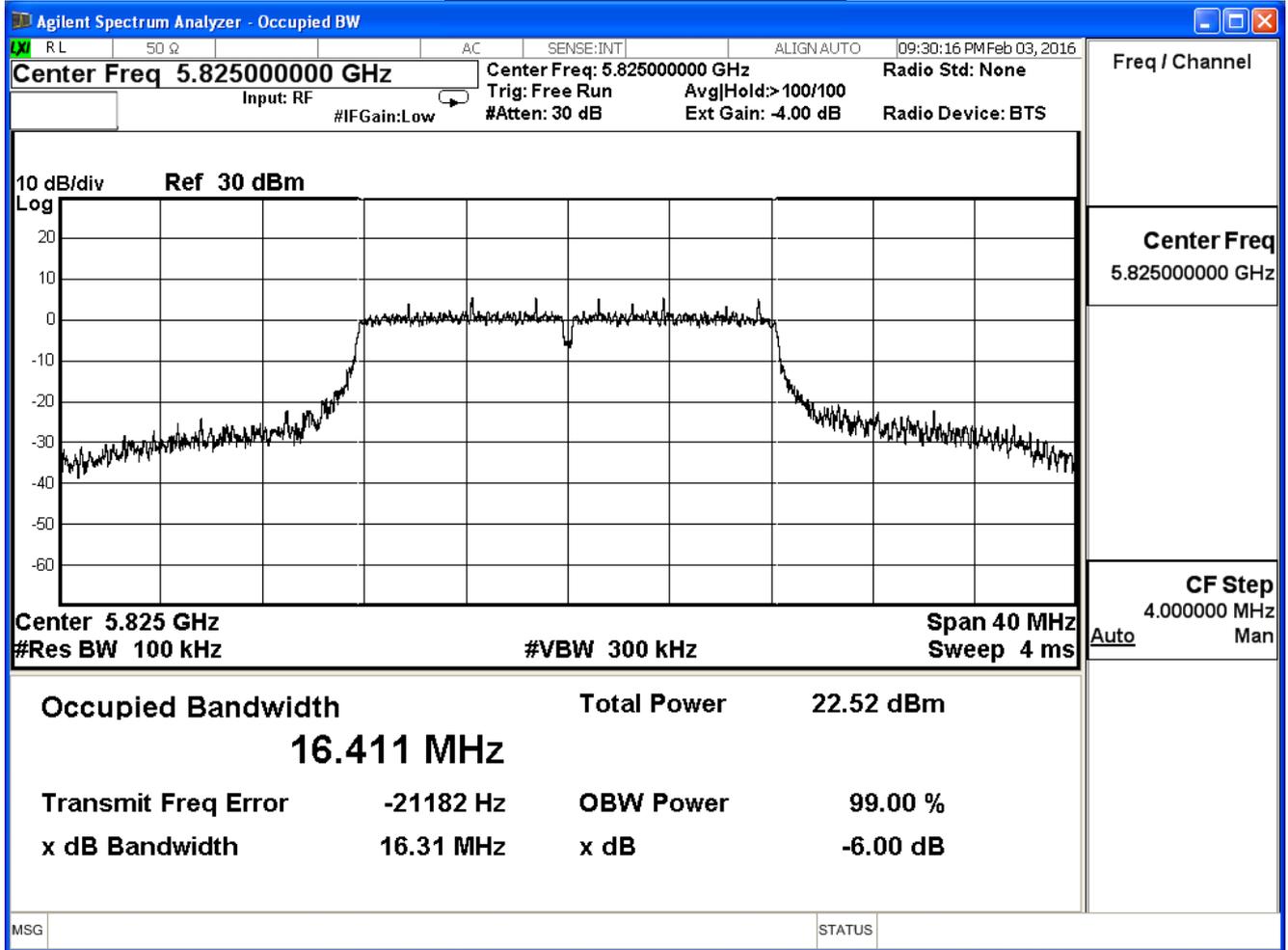
DTS Bandwidth - Channel 149



DTS Bandwidth - Channel 157



DTS Bandwidth - Channel 165

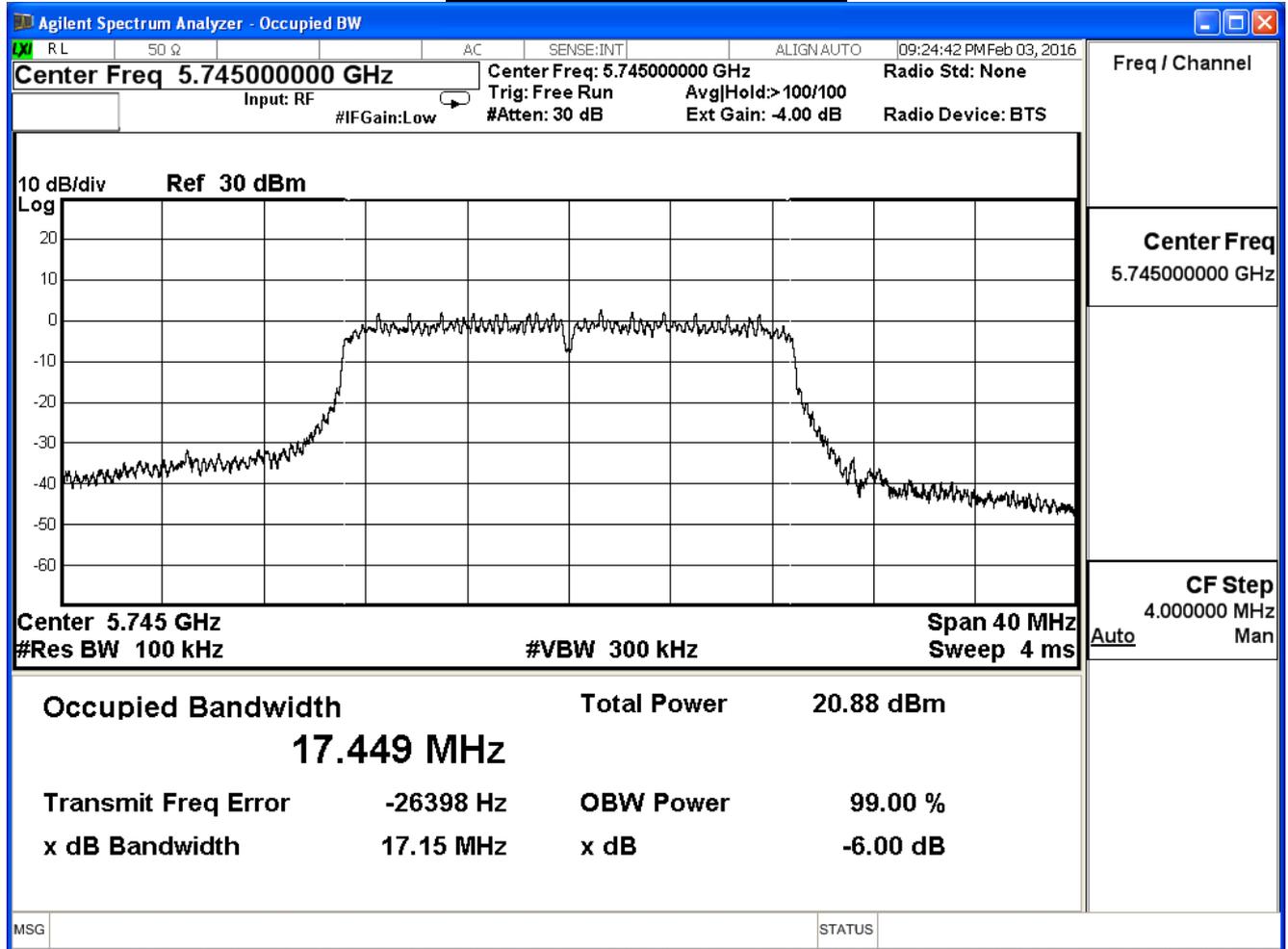


Product	Dual-Band Wireless N-600 Range Extender		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2016/02/03	Test Site	SR7

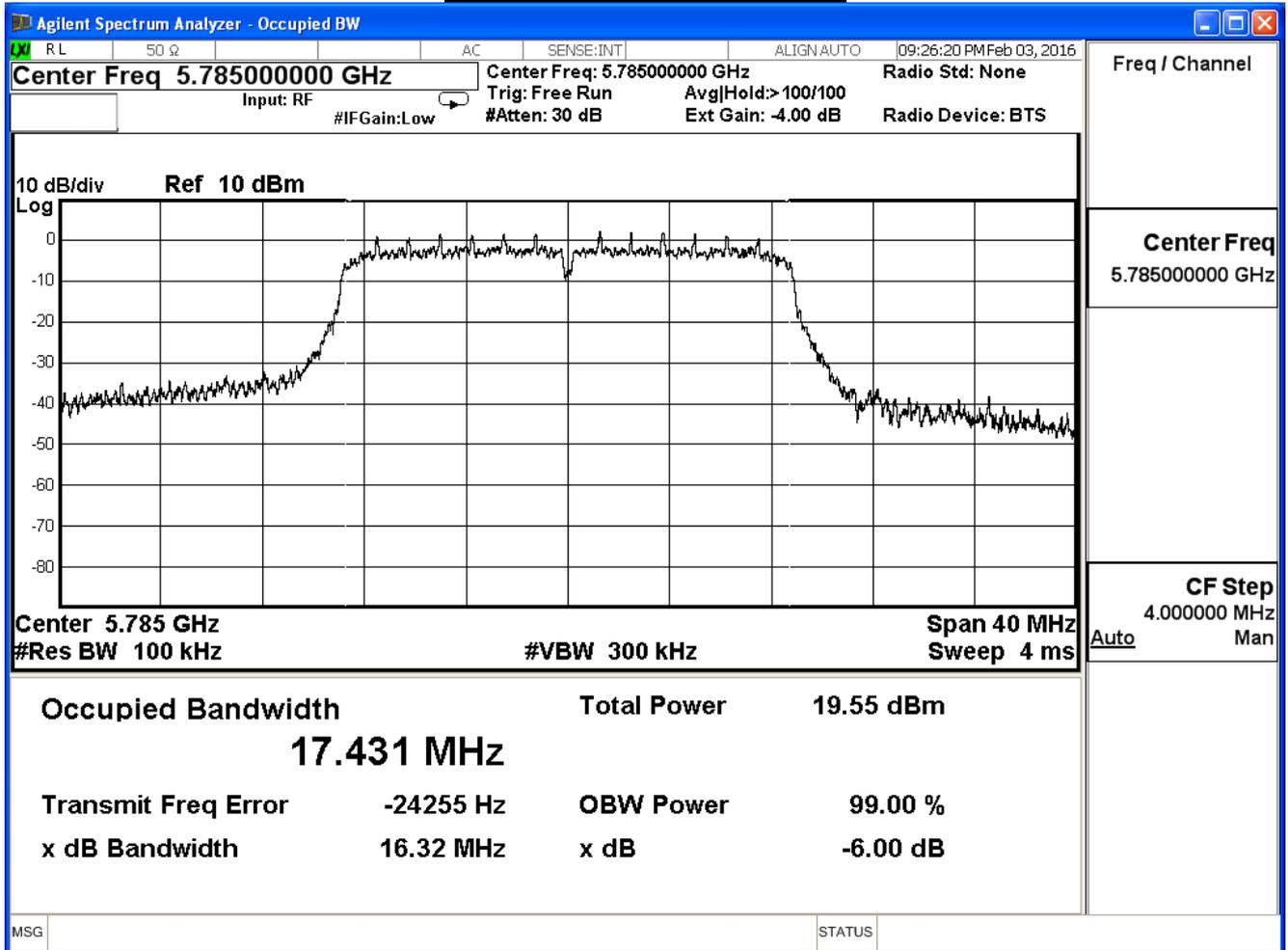
IEEE 802.11n (20MHz)(ANT 0)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
149	5745	17.15	≥ 0.5	Pass
157	5785	16.32	≥ 0.5	Pass
165	5825	16.30	≥ 0.5	Pass

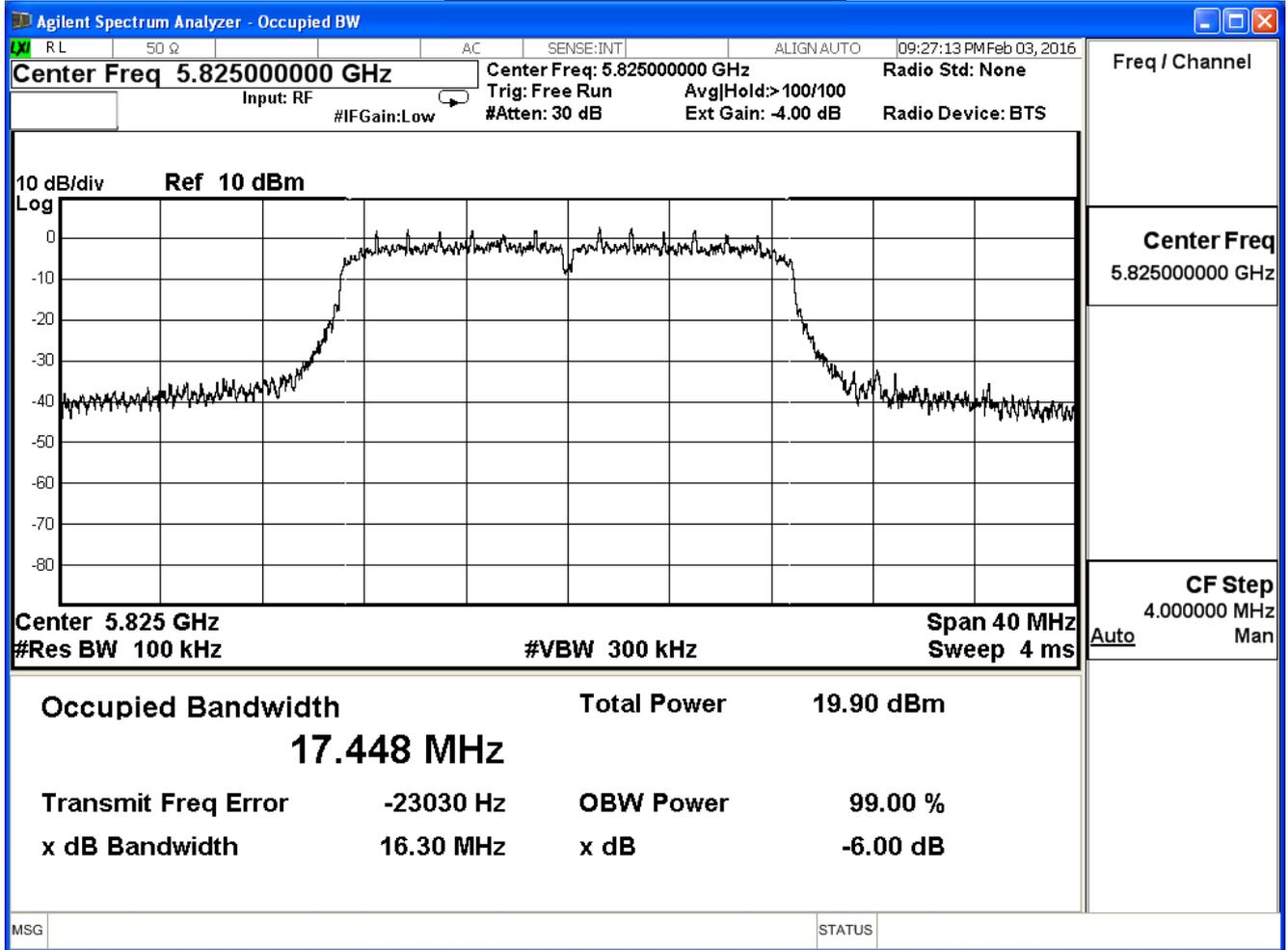
DTS Bandwidth - Channel 149



DTS Bandwidth - Channel 157



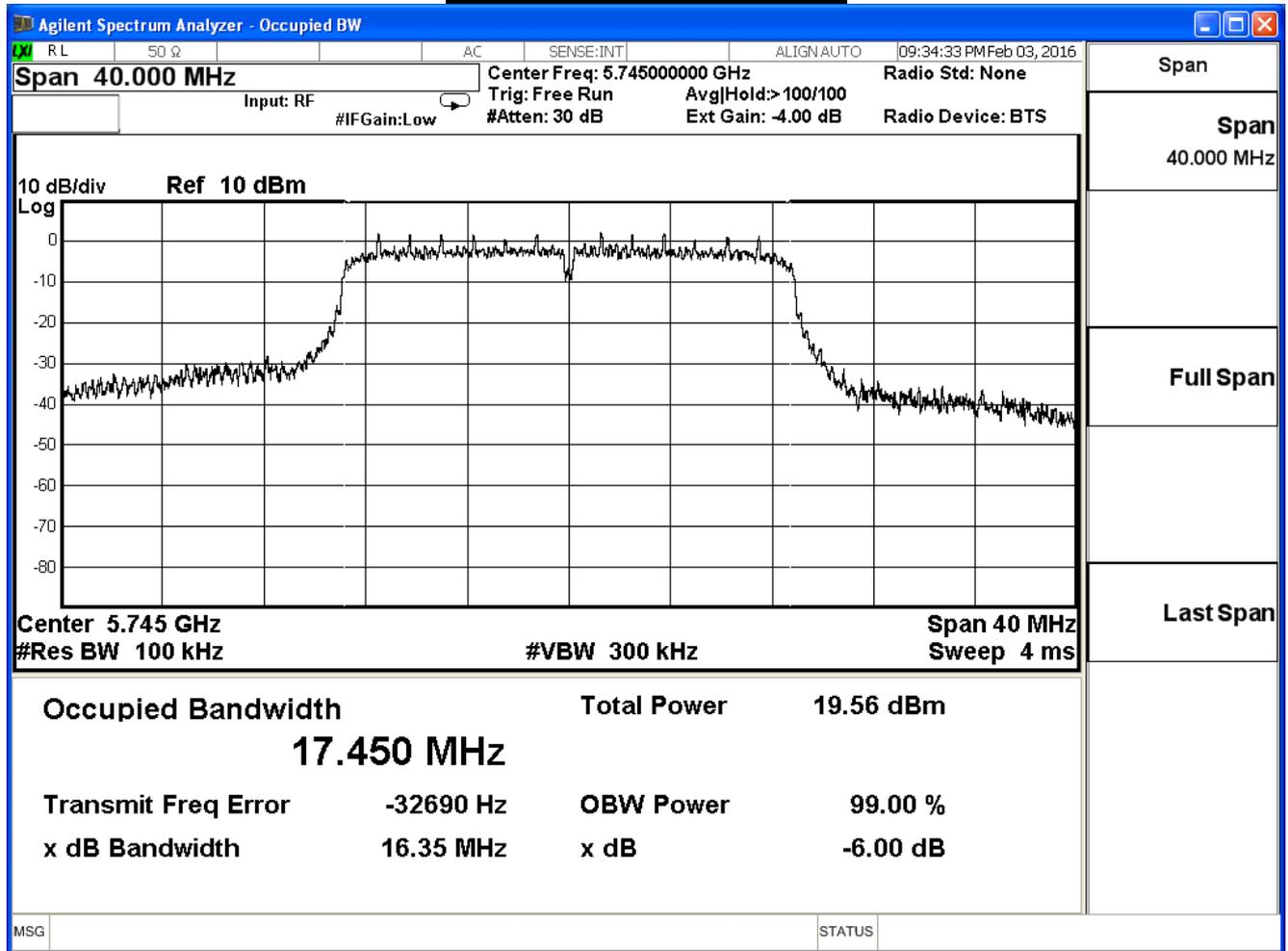
DTS Bandwidth - Channel 165



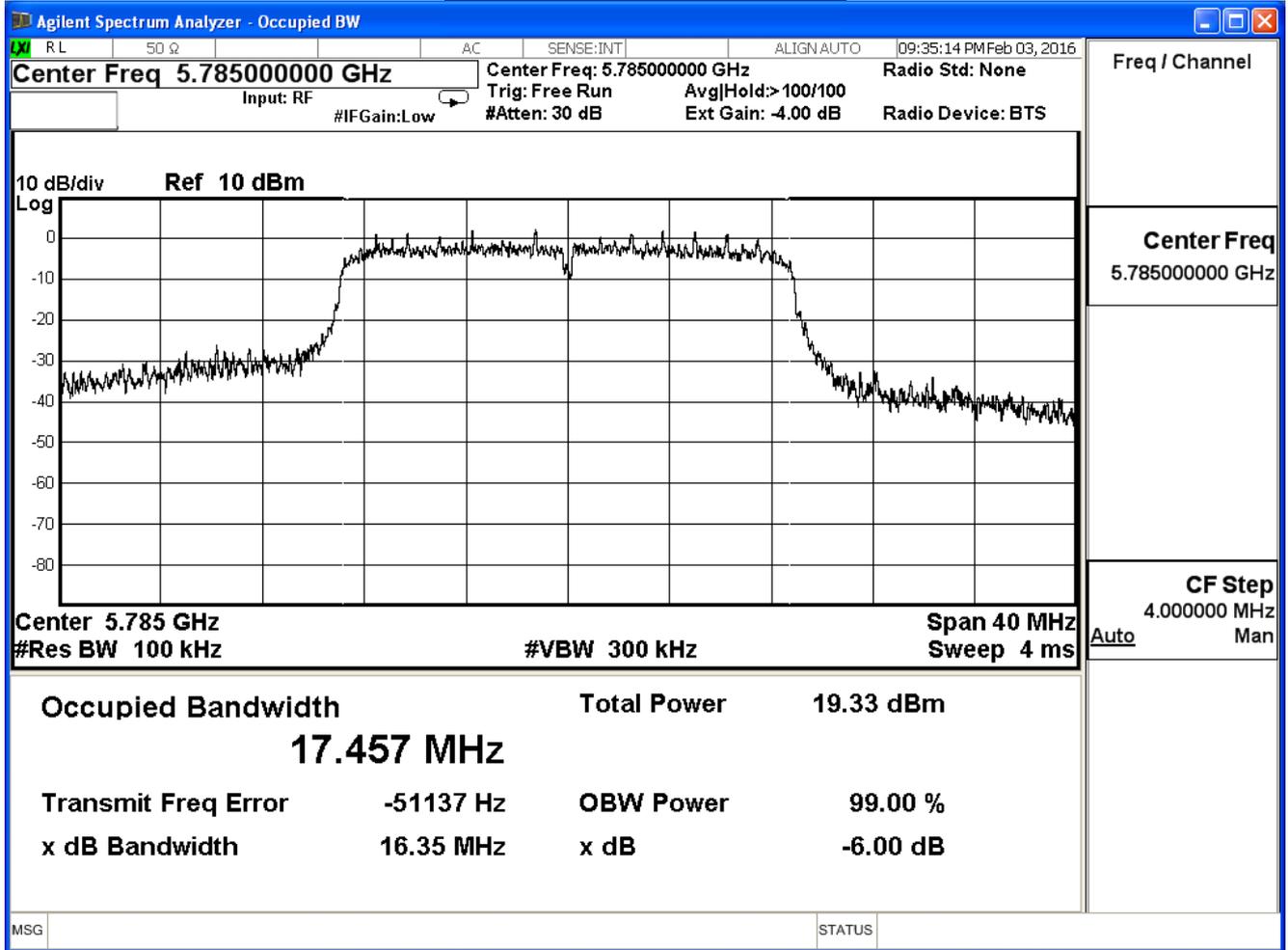
Product	Dual-Band Wireless N-600 Range Extender		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2016/02/03	Test Site	SR7

IEEE 802.11n (20MHz)(ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
149	5745	16.35	≥ 0.5	Pass
157	5785	16.35	≥ 0.5	Pass
165	5825	16.32	≥ 0.5	Pass

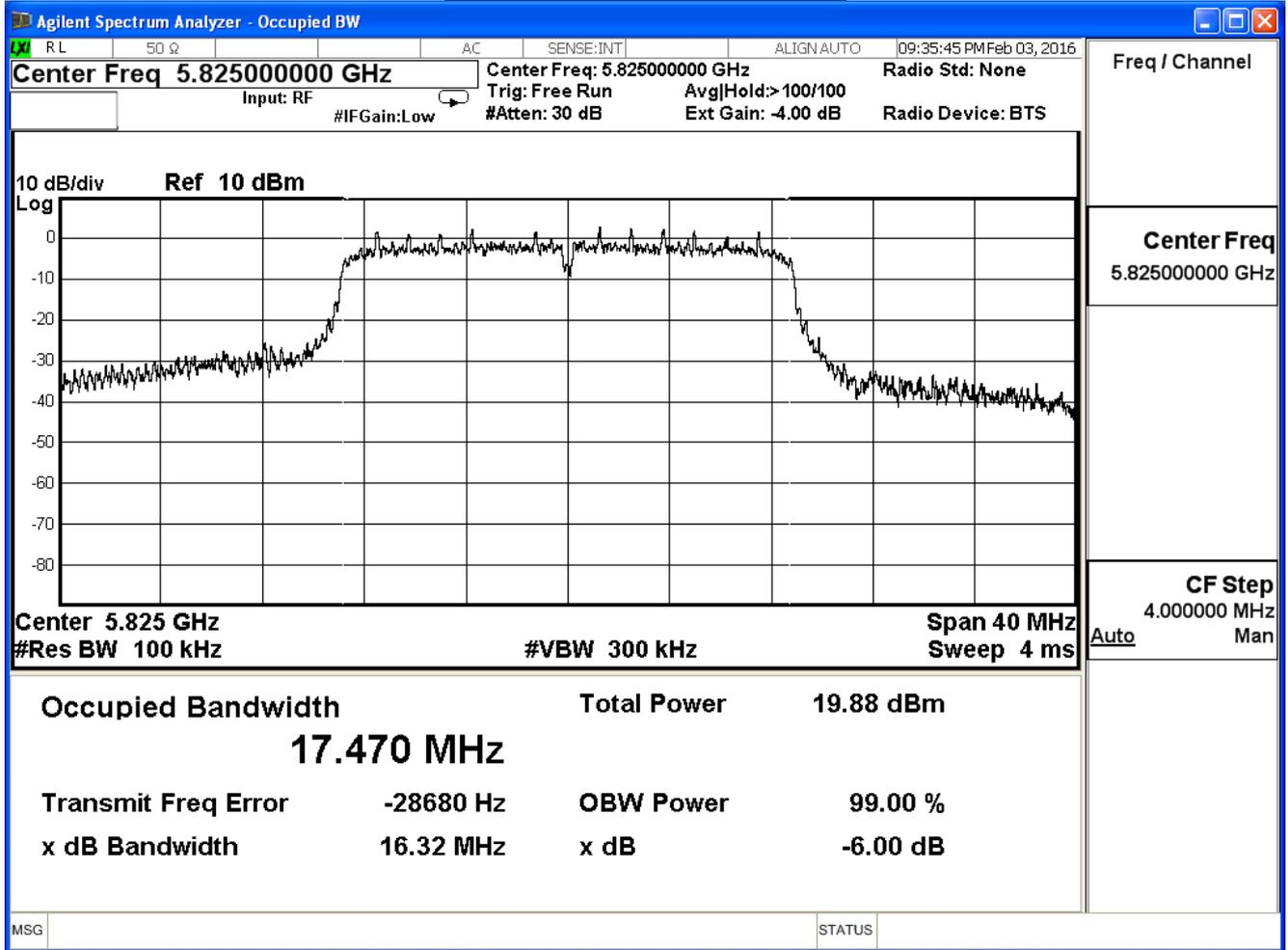
DTS Bandwidth - Channel 149



DTS Bandwidth - Channel 157



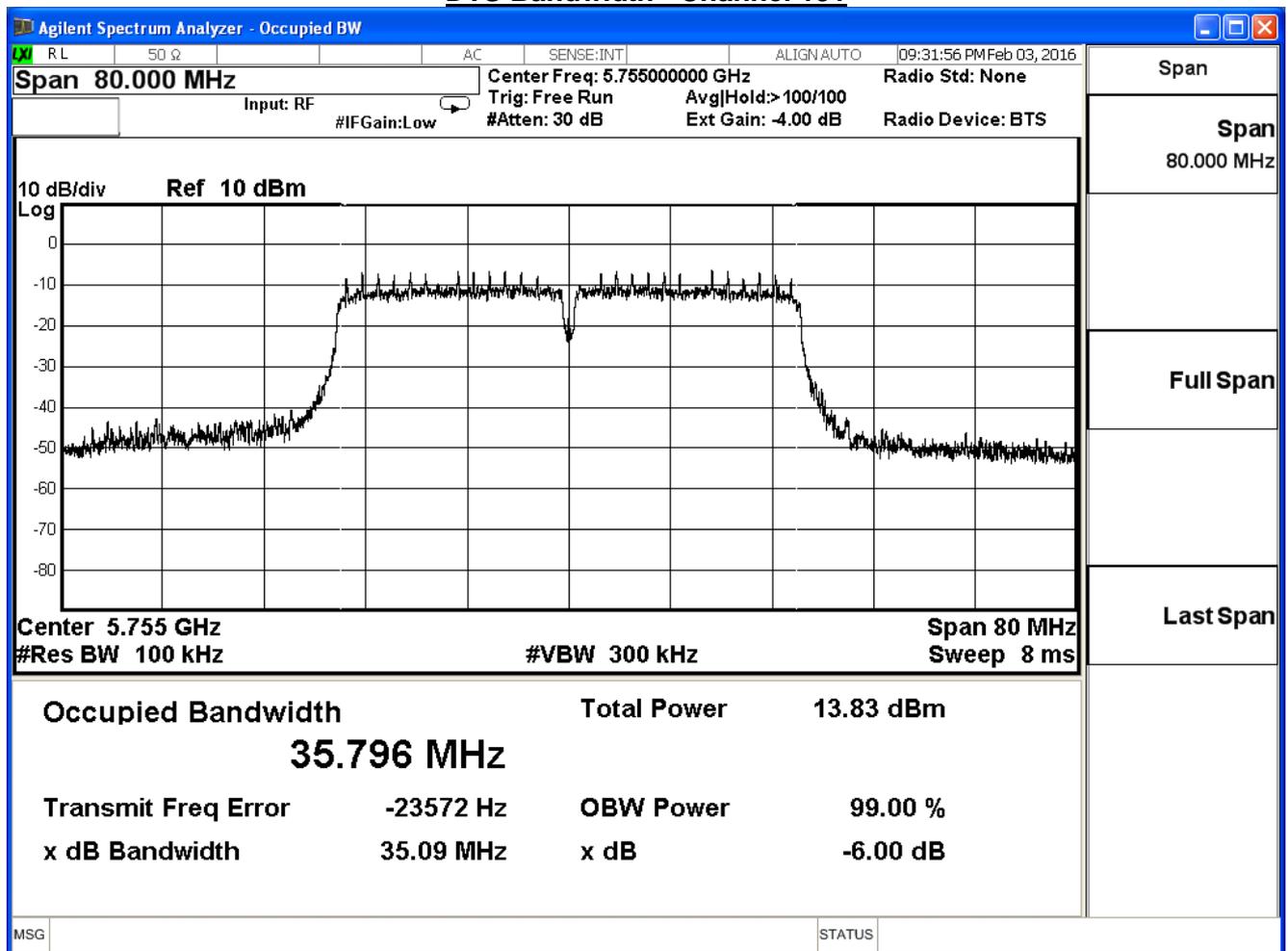
DTS Bandwidth - Channel 165



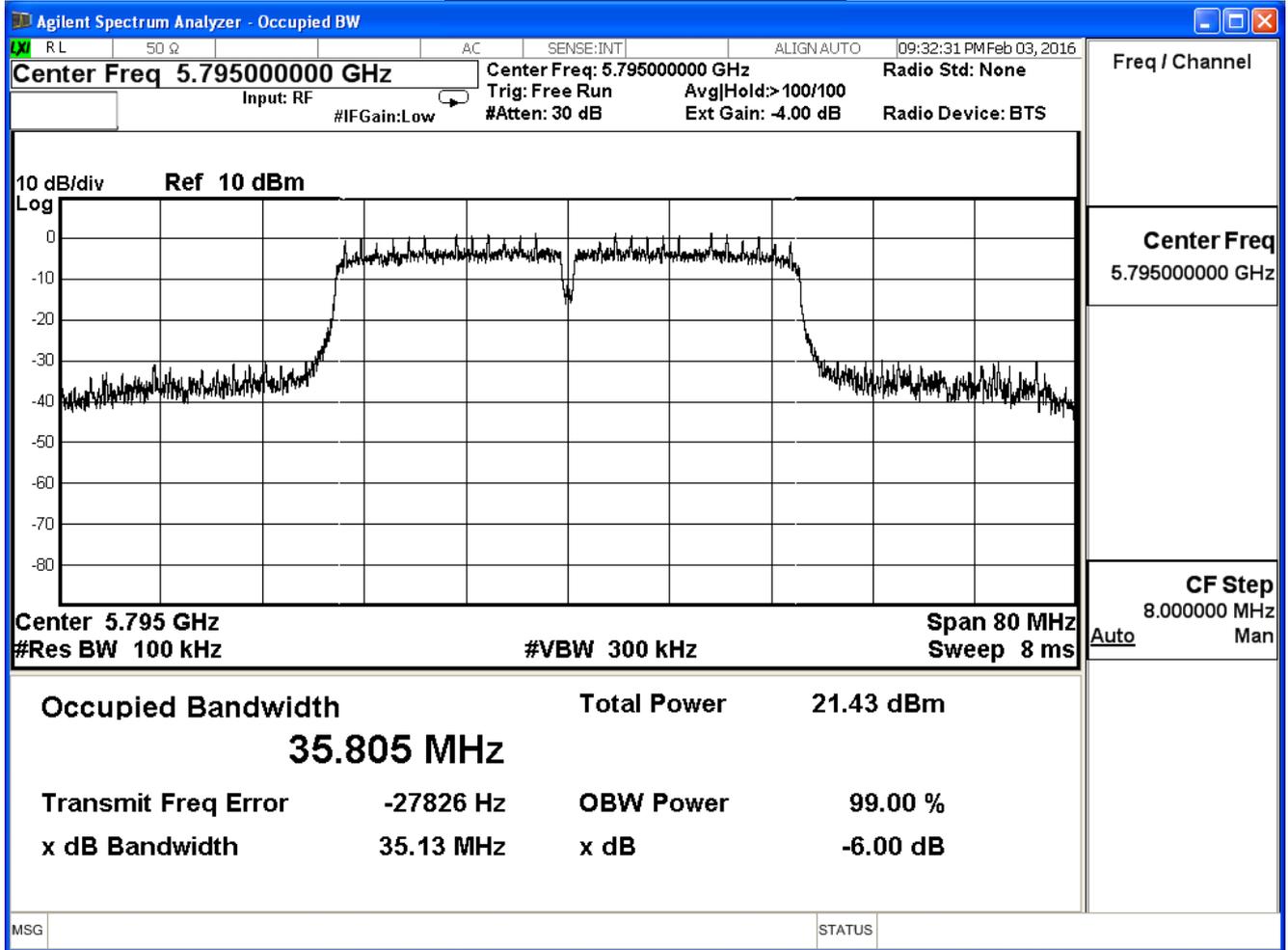
Product	Dual-Band Wireless N-600 Range Extender		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2016/02/03	Test Site	SR7

IEEE 802.11n (40MHz)(ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
151	5755	35.09	≥ 0.5	Pass
159	5795	35.13	≥ 0.5	Pass

DTS Bandwidth - Channel 151



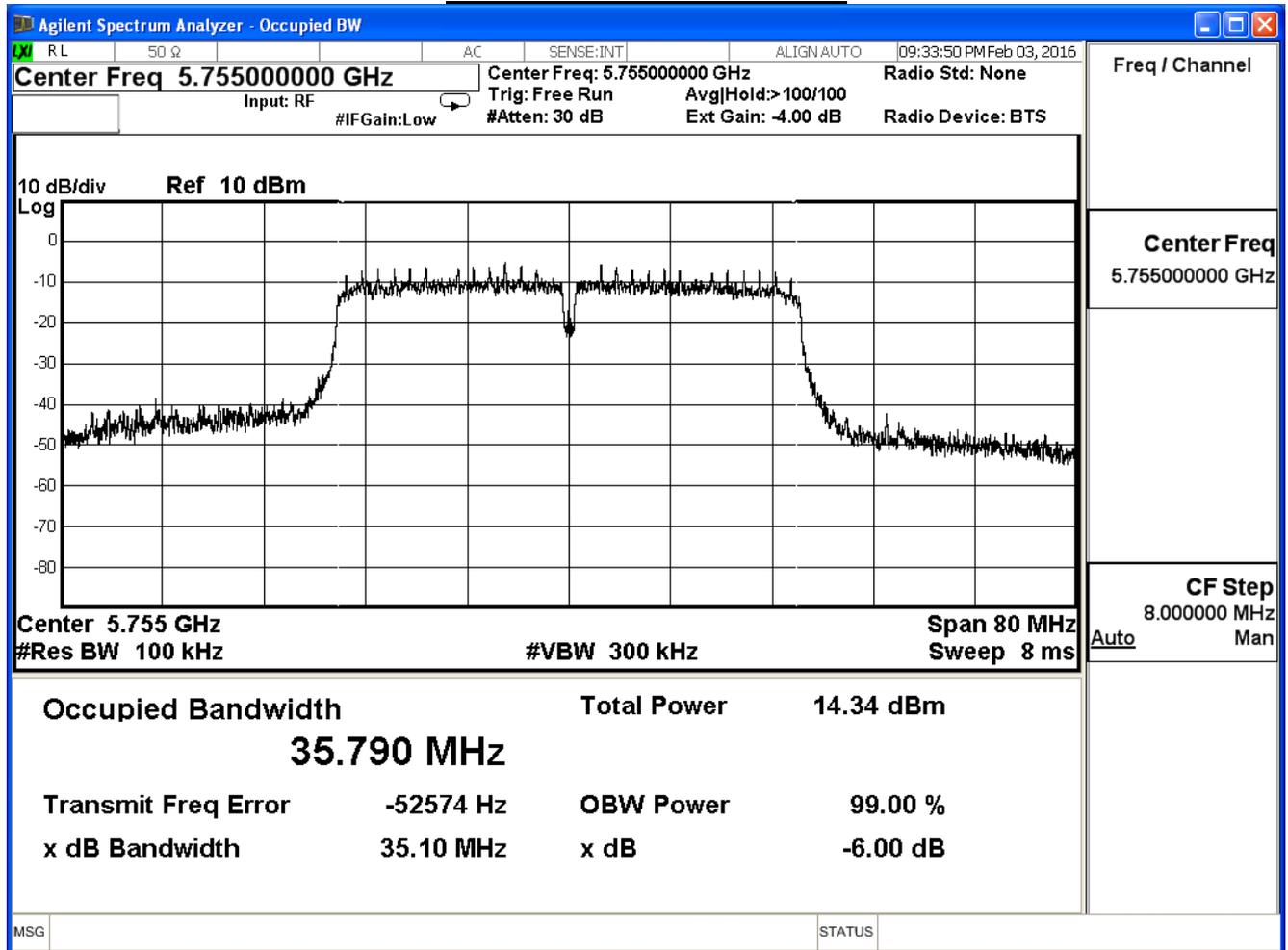
DTS Bandwidth - Channel 159



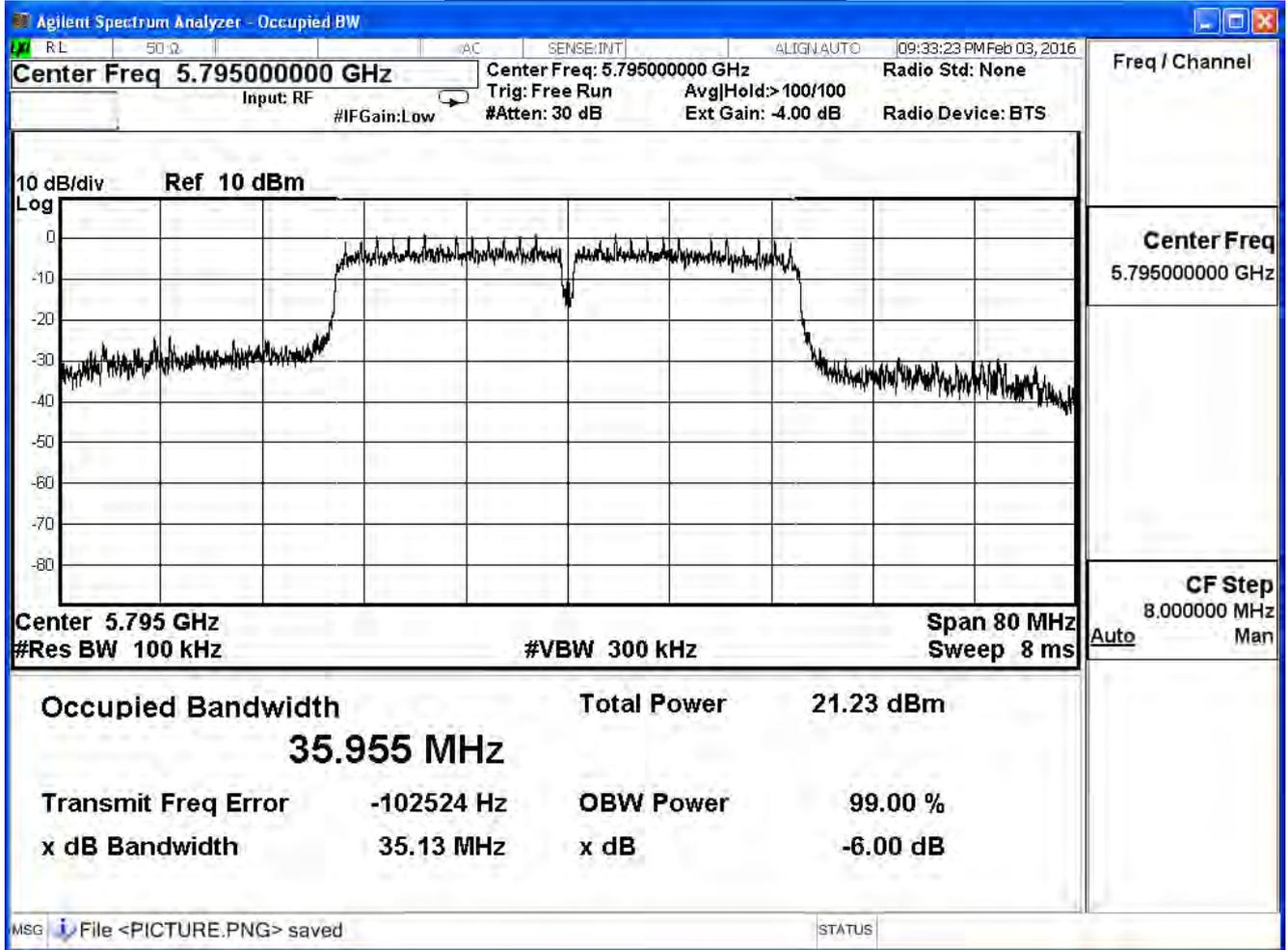
Product	Dual-Band Wireless N-600 Range Extender		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2016/02/03	Test Site	SR7

IEEE 802.11n (40MHz)(ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
151	5755	35.10	≥ 0.5	Pass
159	5795	35.13	≥ 0.5	Pass

DTS Bandwidth - Channel 151



DTS Bandwidth - Channel 159



4. Peak Transmit Output

4.1. Test Equipment

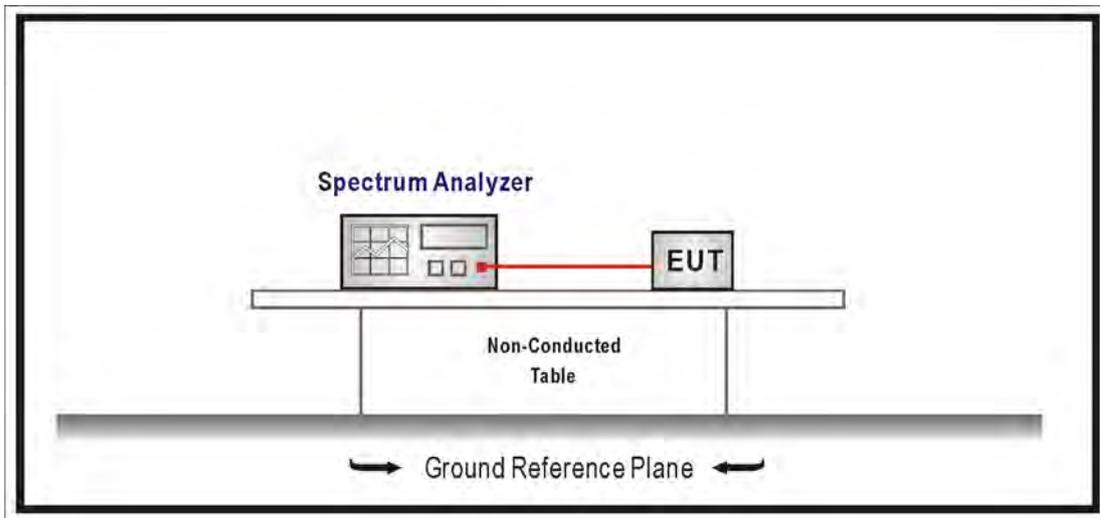
The following test equipments are used during the radiated emission tests:

Peak Transmit Output / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2016/07/13

Note: 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 C63.10:2013; tested to U-NII test procedure of 789033 D02 General UNII Test Procedures New Rules v01r01 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 N-600 Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2016/02/03	Test Site	SR7

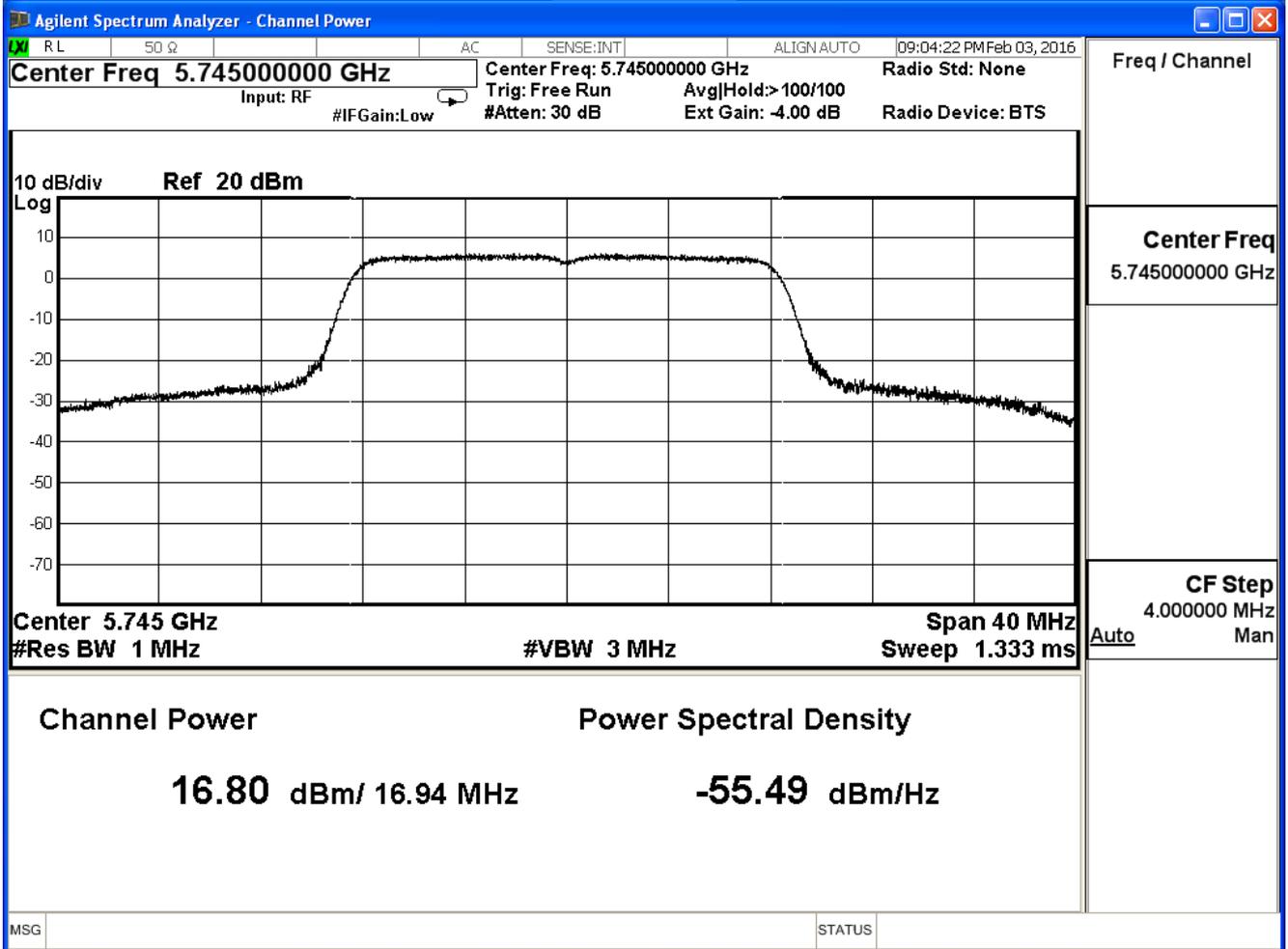
IEEE 802.11a (ANT 0)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
149	5745	16.80	≤30
157	5785	16.87	≤30
165	5825	16.92	≤30

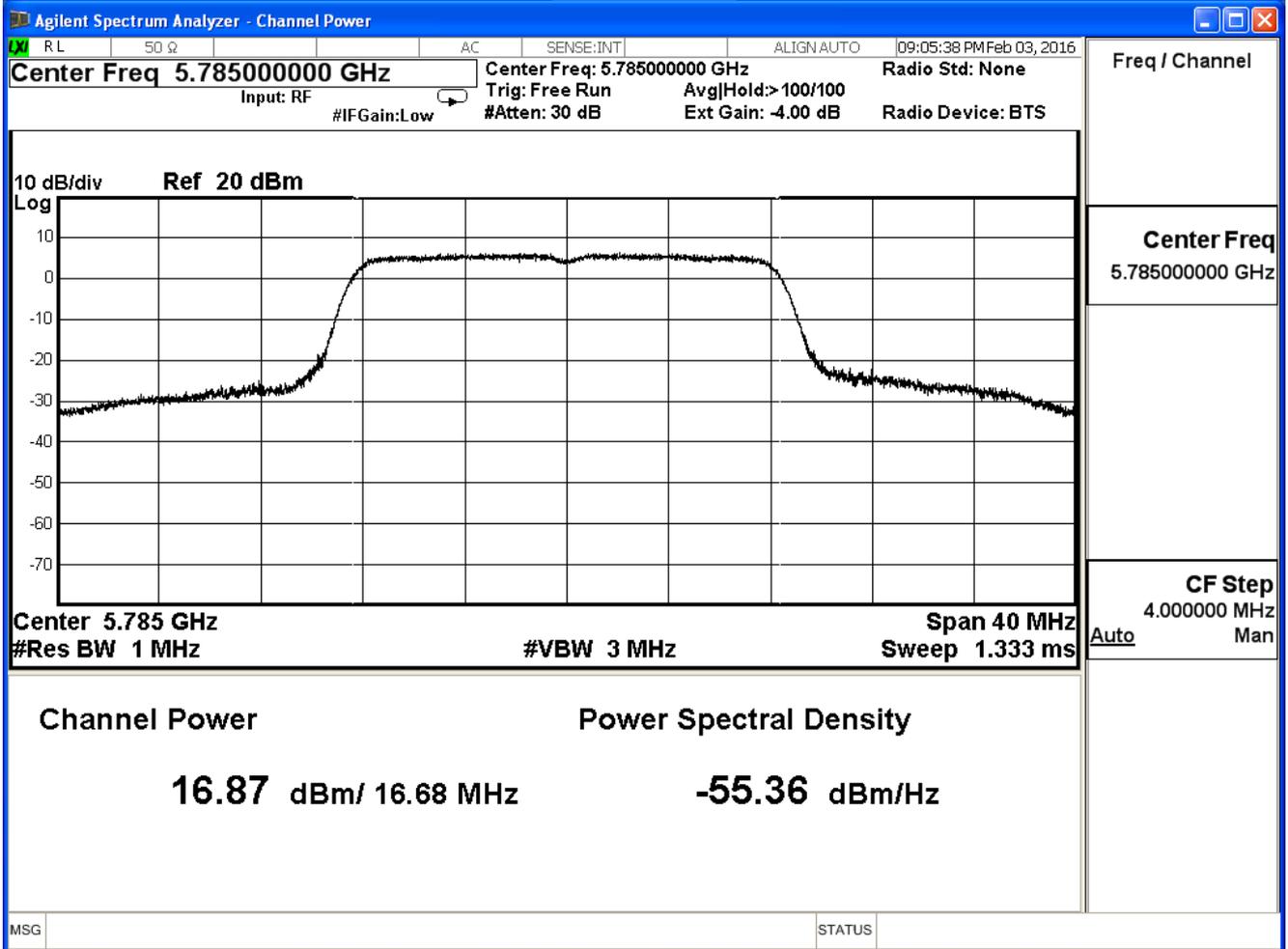
The worst emission of data rate is 6Mbps.

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
149	5745	16.80	--	--	--	--	--	--	30dBm
157	5785	16.87	16.76	16.66	16.46	16.34	16.10	15.80	
165	5825	16.92	--	--	--	--	--	--	

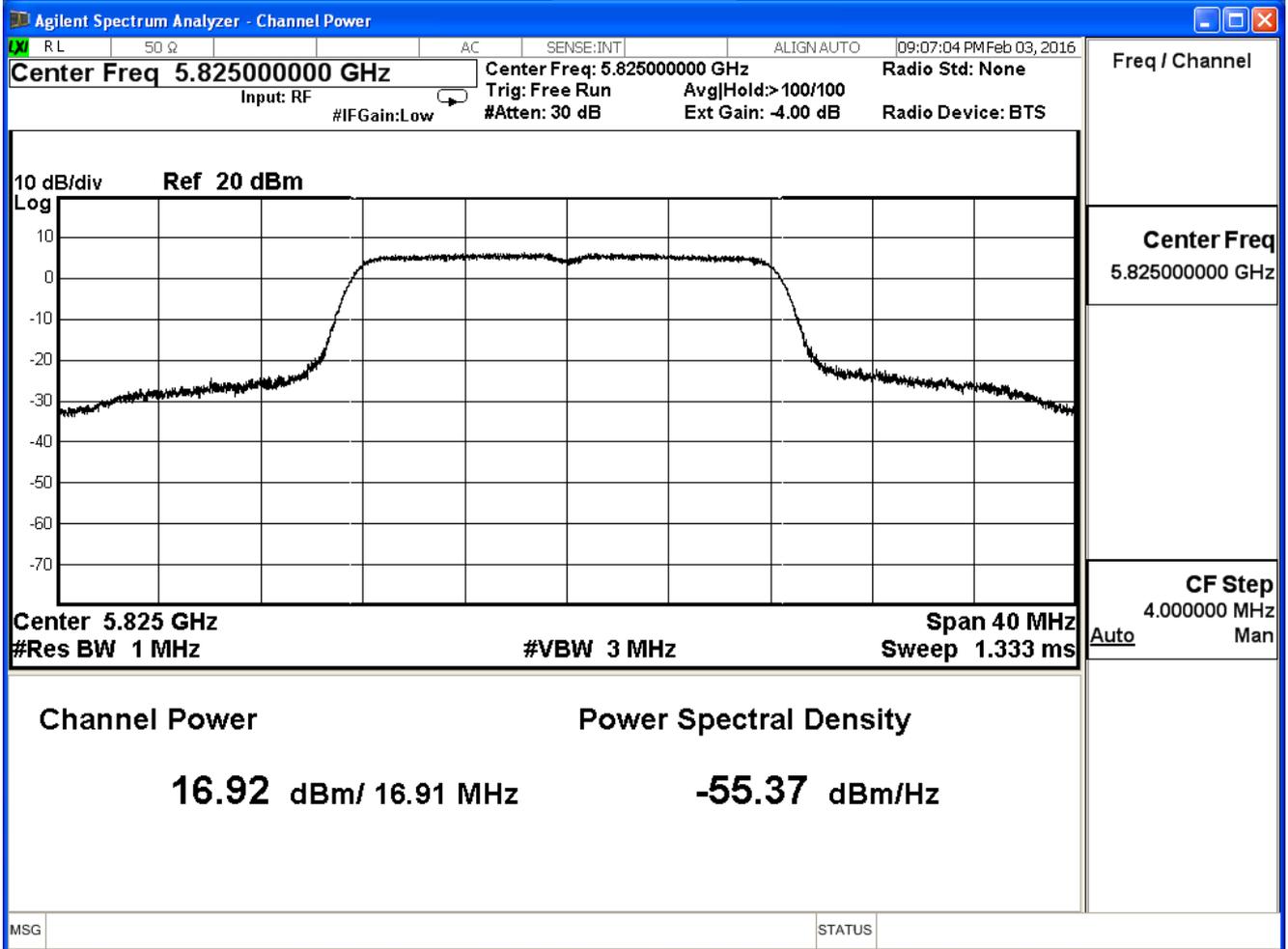
Channel 149



Channel 157



Channel 165



Product	Dual-Band Wireless-N600 USB Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2016/02/03	Test Site	SR7

IEEE 802.11n 20MHz (ANT 0)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
149	5745	12.95	≤29.49
157	5785	12.61	≤29.49
165	5825	13.36	≤29.49

The worst emission of data rate is 6.5 Mbps.

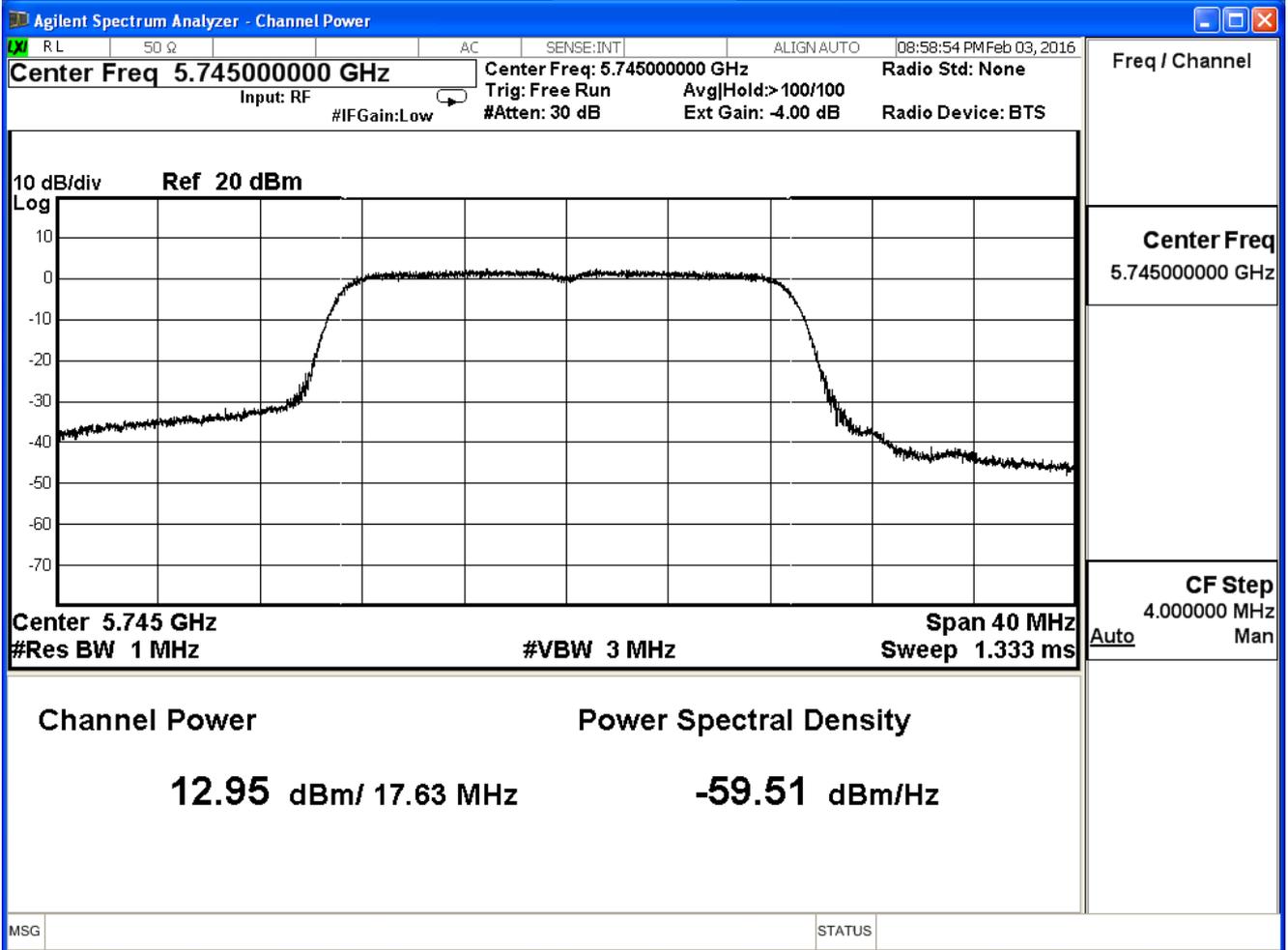
		Peak Power Output (dBm)								Required Limit
MCS Index		0	1	2	3	4	5	6	7	
Channel No	Frequency (MHz)	Data Rate								
		6.5	13	19.5	26	39	52	58.5	65	
149	5745	12.95	--	--	--	--	--	--	--	29.49dBm
157	5785	12.61	12.50	12.40	12.20	12.08	11.84	11.69	11.57	
165	5825	13.36	--	--	--	--	--	--	--	

Note:

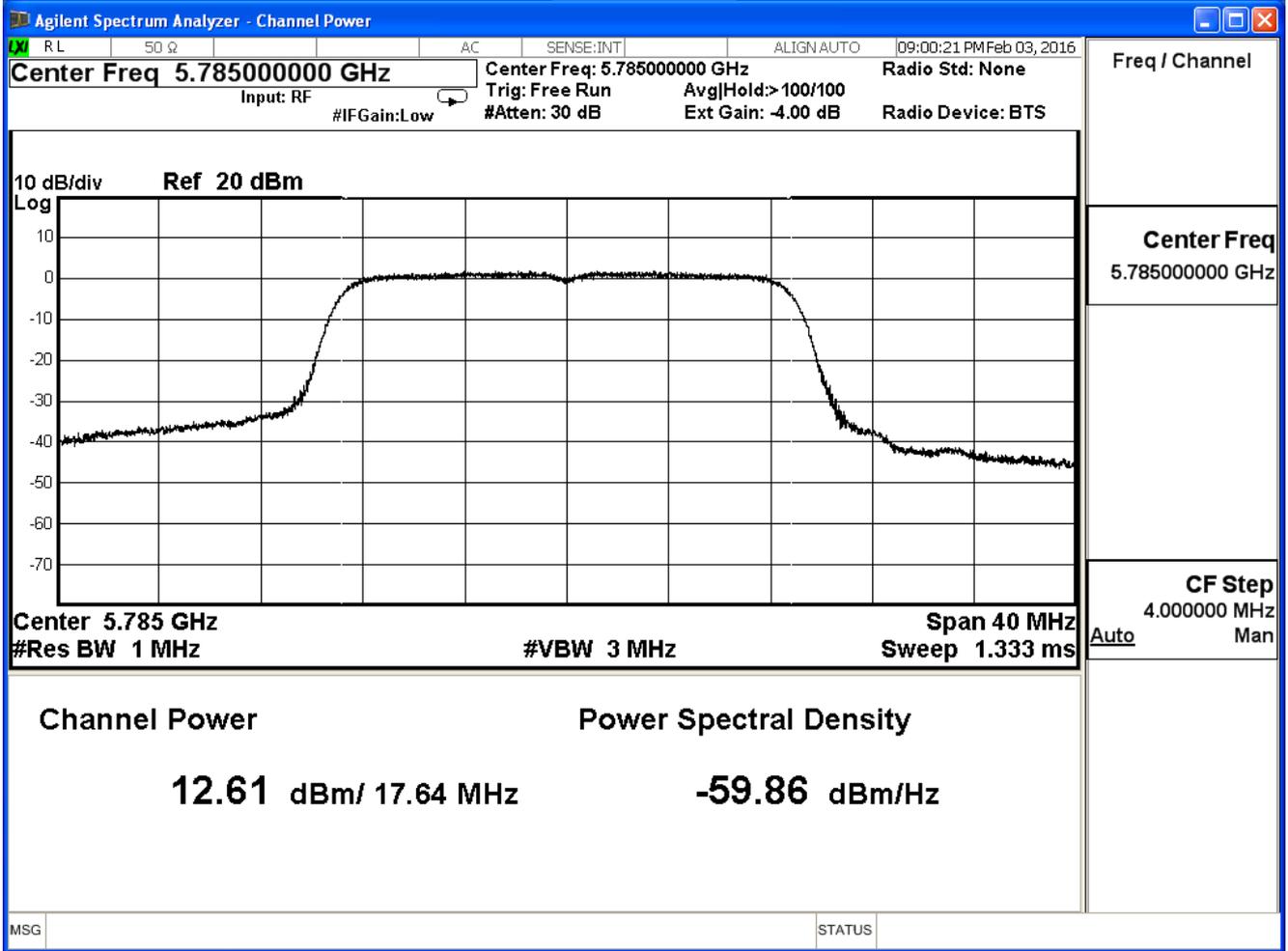
$$10\text{Log}(\text{Ant N})+\text{max Gain} = 10(2)+3.5=6.51\text{dBi}$$

$$\text{Required Limit} = 30\text{dBm}-(6.51\text{dBi}-6\text{dBi})=30-0.51=29.49\text{dBi}$$

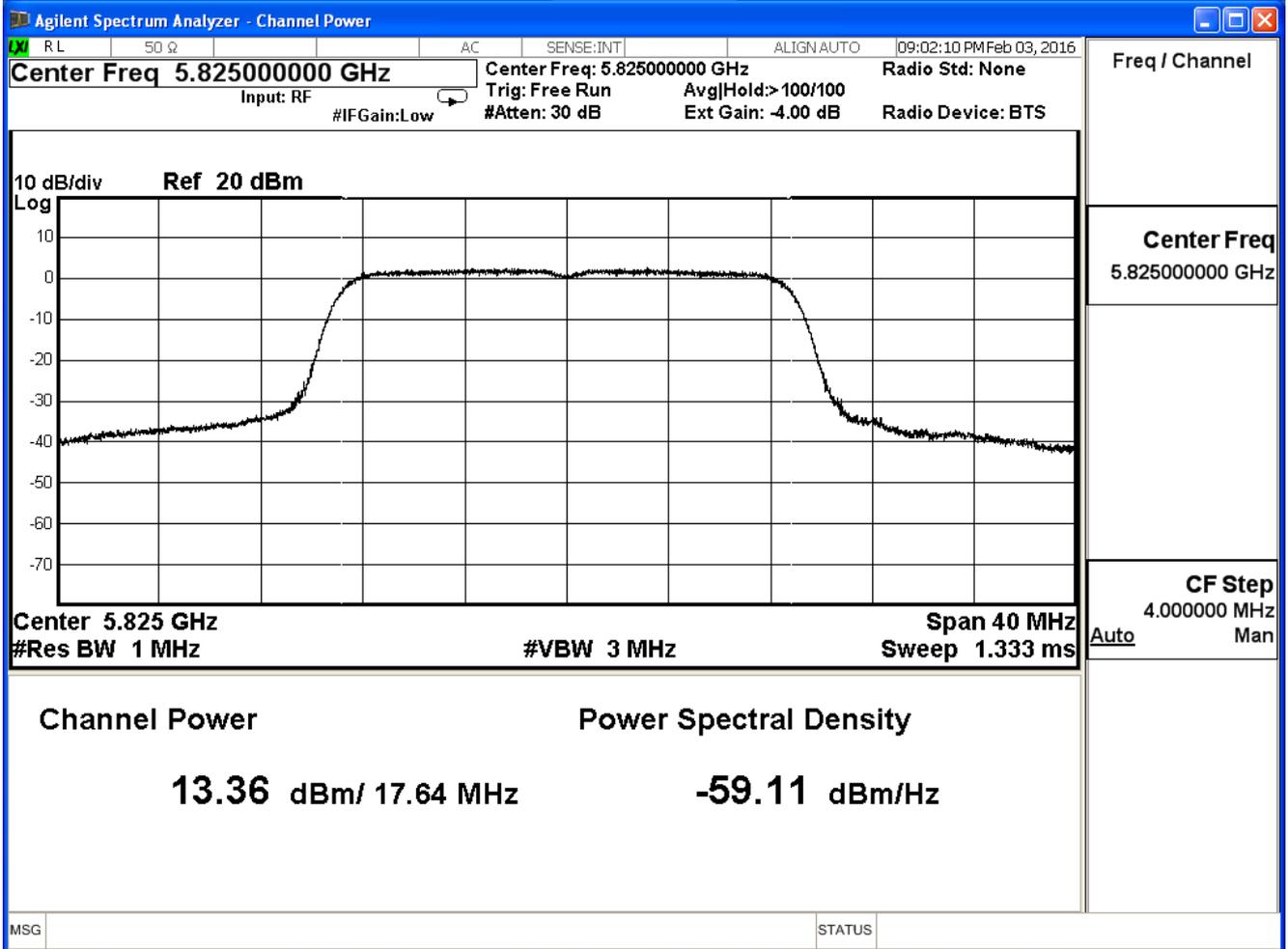
Channel 149



Channel 157



Channel 165



Product	Dual-Band Wireless-N600 USB Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2016/02/03	Test Site	SR7

IEEE 802.11n 20MHz (ANT 1)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
149	5745	12.94	≤29.49
157	5785	13.12	≤29.49
165	5825	12.97	≤29.49

The worst emission of data rate is 6.5 Mbps.

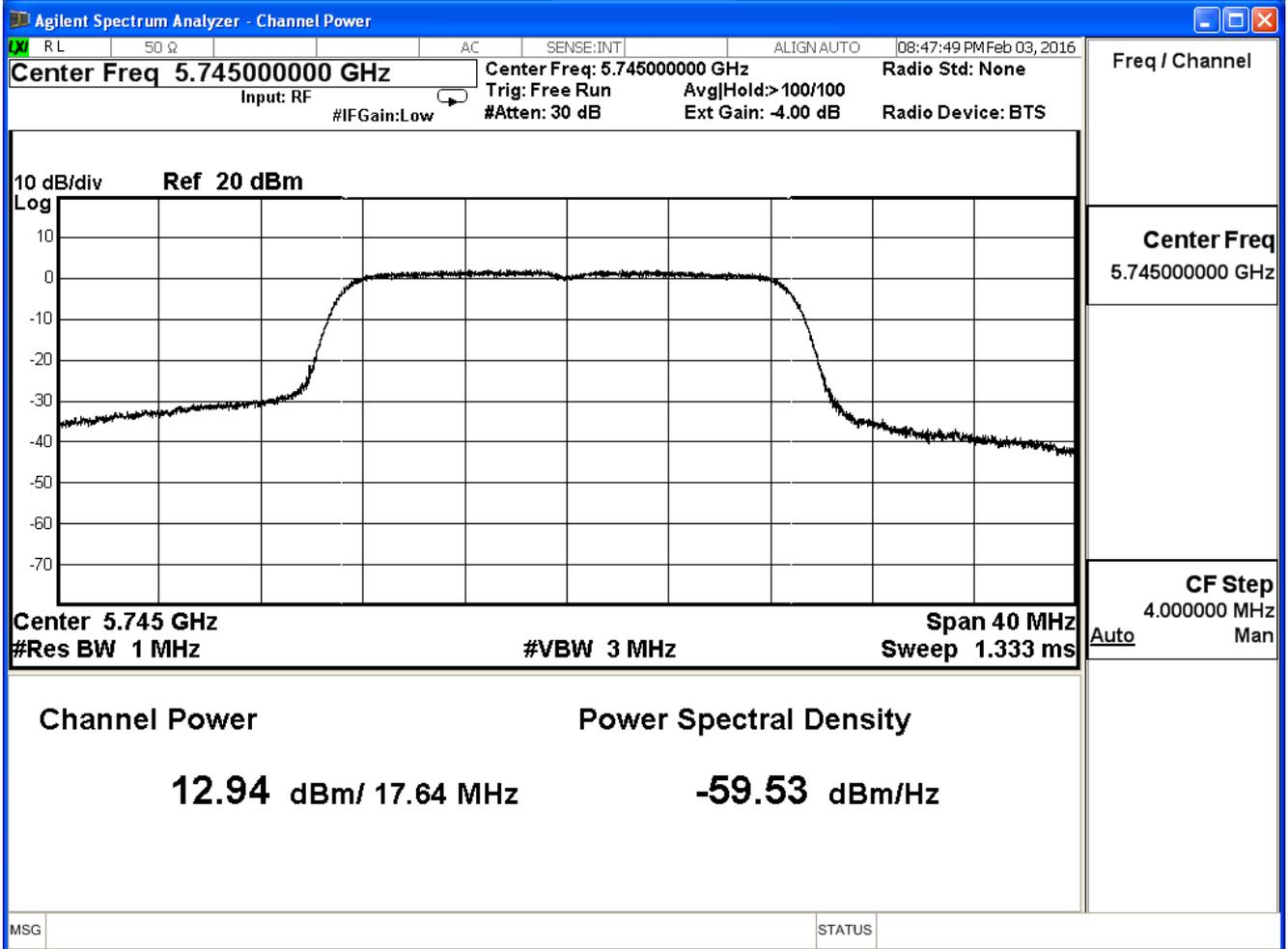
		Peak Power Output (dBm)								Required Limit
MCS Index		0	1	2	3	4	5	6	7	
Channel No	Frequency (MHz)	Data Rate								
		6.5	13	19.5	26	39	52	58.5	65	
149	5745	12.94	--	--	--	--	--	--	--	29.49dBm
157	5785	13.12	13.02	12.78	12.58	12.48	12.35	12.11	11.99	
165	5825	12.97	--	--	--	--	--	--	--	

Note:

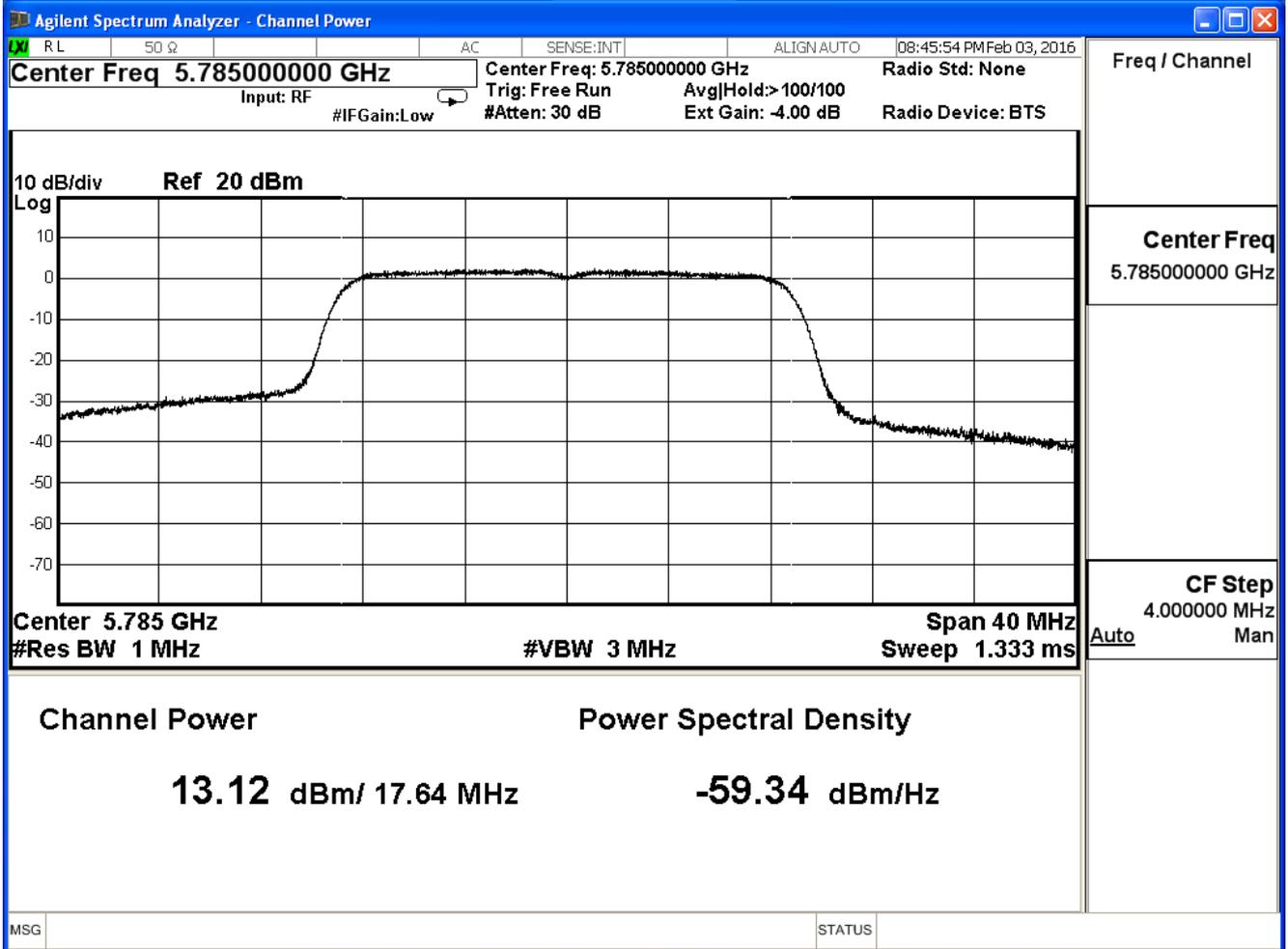
$$10\text{Log}(\text{Ant N})+\text{max Gain} = 10(2)+3.5=6.51\text{dBi}$$

$$\text{Required Limit} = 30\text{dBm}-(6.51\text{dBi}-6\text{dBi})=30-0.51=29.49\text{dBi}$$

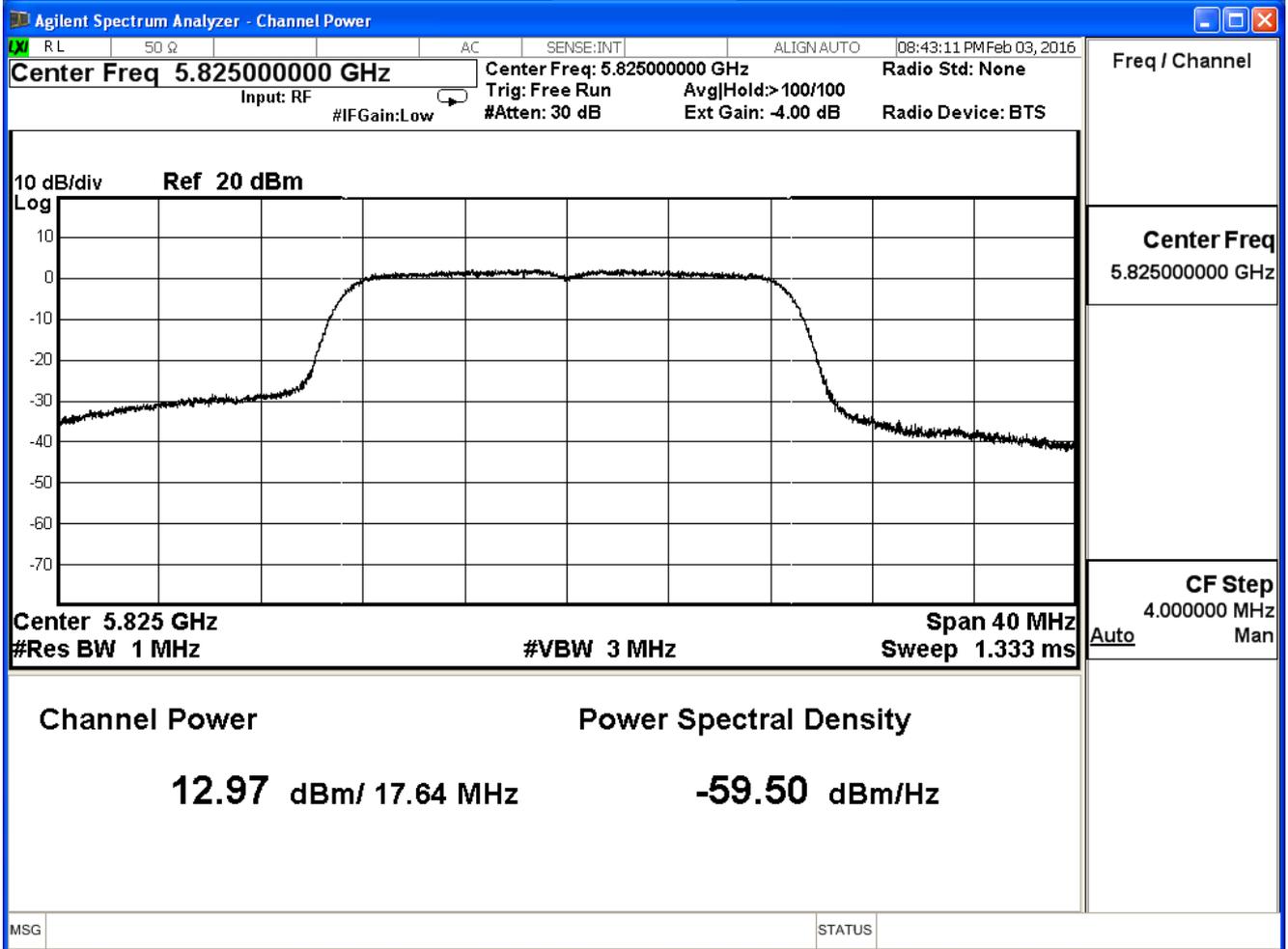
Channel 149



Channel 157



Channel 165



Product	Dual-Band Wireless-N600 USB Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2016/02/03	Test Site	SR7

IEEE 802.11n 20MHz (ANT 0+1)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
149	5745	15.96	≤29.49
157	5785	15.88	≤29.49
165	5825	16.18	≤29.49

The worst emission of data rate is 6.5 Mbps.

		Peak Power Output (dBm)								Required Limit
MCS Index		0	1	2	3	4	5	6	7	
Channel No	Frequency (MHz)	Data Rate								
		6.5	13	19.5	26	39	52	58.5	65	
149	5745	15.96	--	--	--	--	--	--	--	29.49dBm
157	5785	15.88	15.78	15.60	15.40	15.29	15.11	14.92	14.80	
165	5825	16.18	--	--	--	--	--	--	--	

Note:

$$10\text{Log}(\text{Ant N})+\text{max Gain} = 10(2)+3.5=6.51\text{dBi}$$

$$\text{Required Limit} = 30\text{dBm}-(6.51\text{dBi}-6\text{dBi})=30-0.51=29.49\text{dBi}$$

Product	Dual-Band Wireless-N600 USB Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2016/02/03	Test Site	SR7

IEEE802.11n 40MHz(ANT 0)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
151	5755	8.07	≤29.49
159	5795	15.02	≤29.49

The worst emission of data rate is 13.5 Mbps.

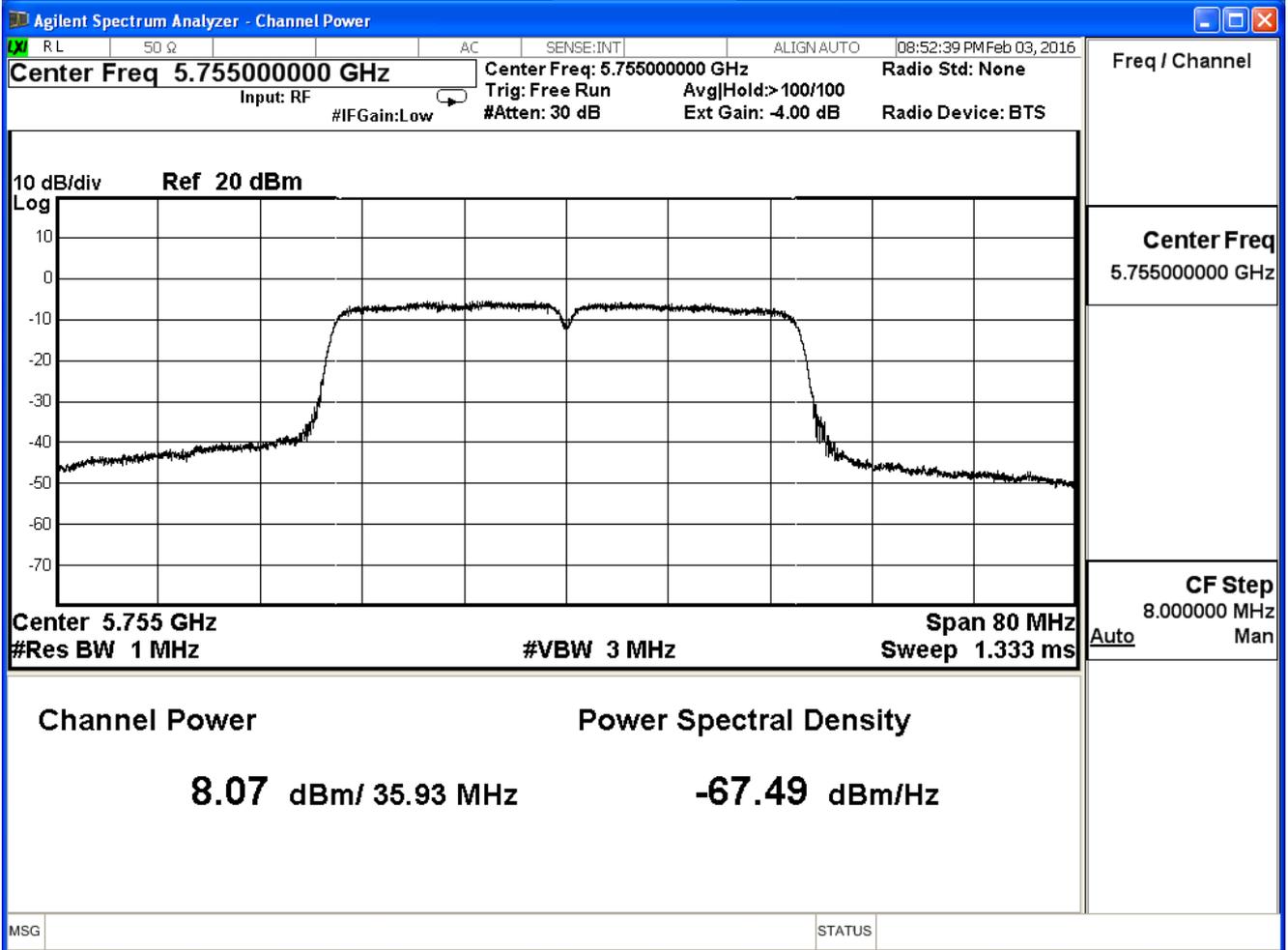
Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13.5	27	40.5	54	81	108	121.5	135	
151	5755	8.07	--	--	--	--	--	--	--	29.49dBm
159	5795	15.02	14.82	14.62	14.42	14.22	13.98	13.86	13.74	

Note:

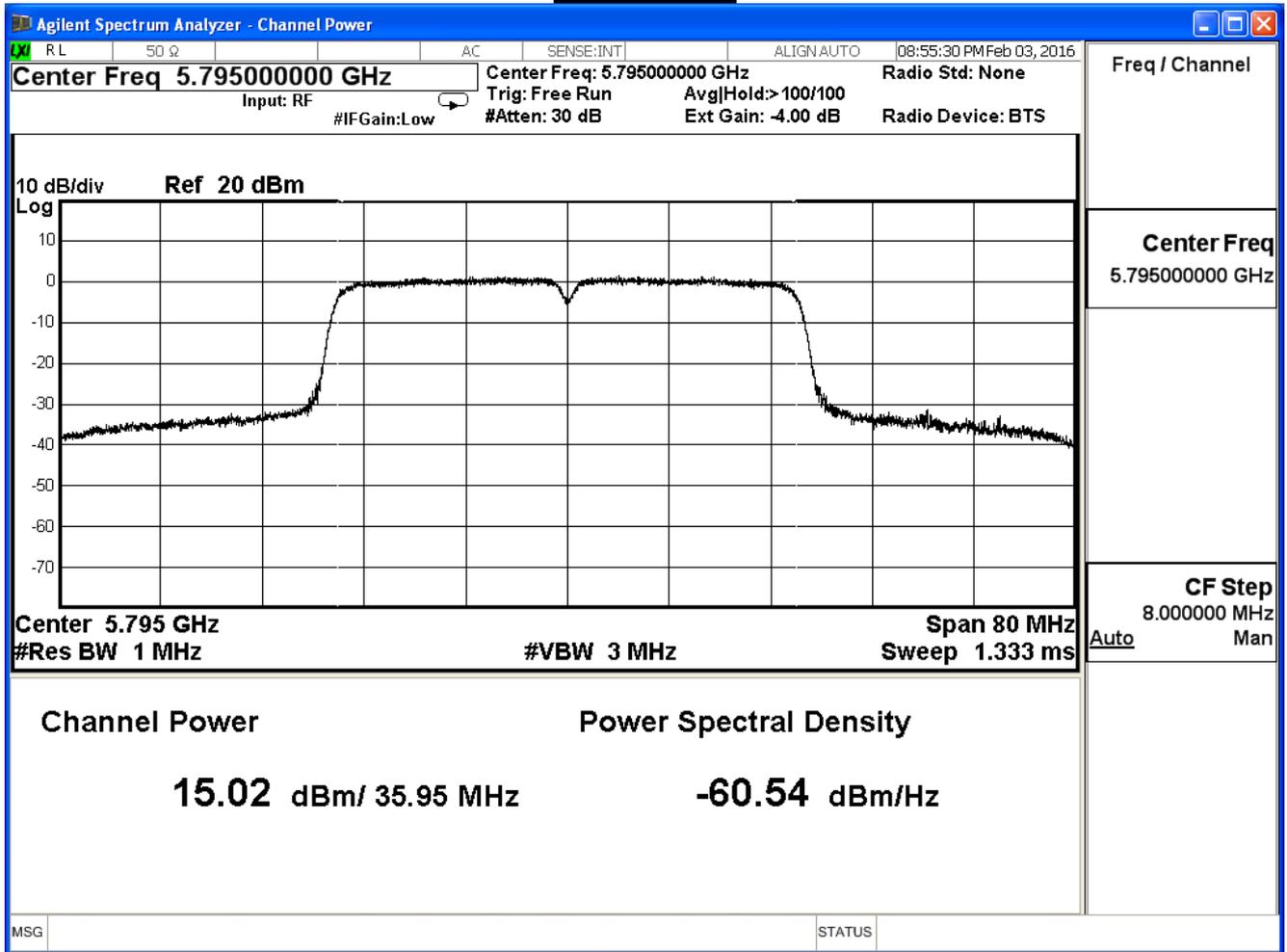
$$10\log(\text{Ant N}) + \text{max Gain} = 10(2) + 3.5 = 6.51\text{dBi}$$

$$\text{Required Limit} = 30\text{dBm} - (6.51\text{dBi} - 6\text{dBi}) = 30 - 0.51 = 29.49\text{dBi}$$

Channel 151



Channel 159



Product	Dual-Band Wireless-N600 USB Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2016/02/03	Test Site	SR7

IEEE802.11n 40MHz(ANT 1)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
151	5755	8.18	≤29.49
159	5795	14.56	≤29.49

The worst emission of data rate is 13.5 Mbps.

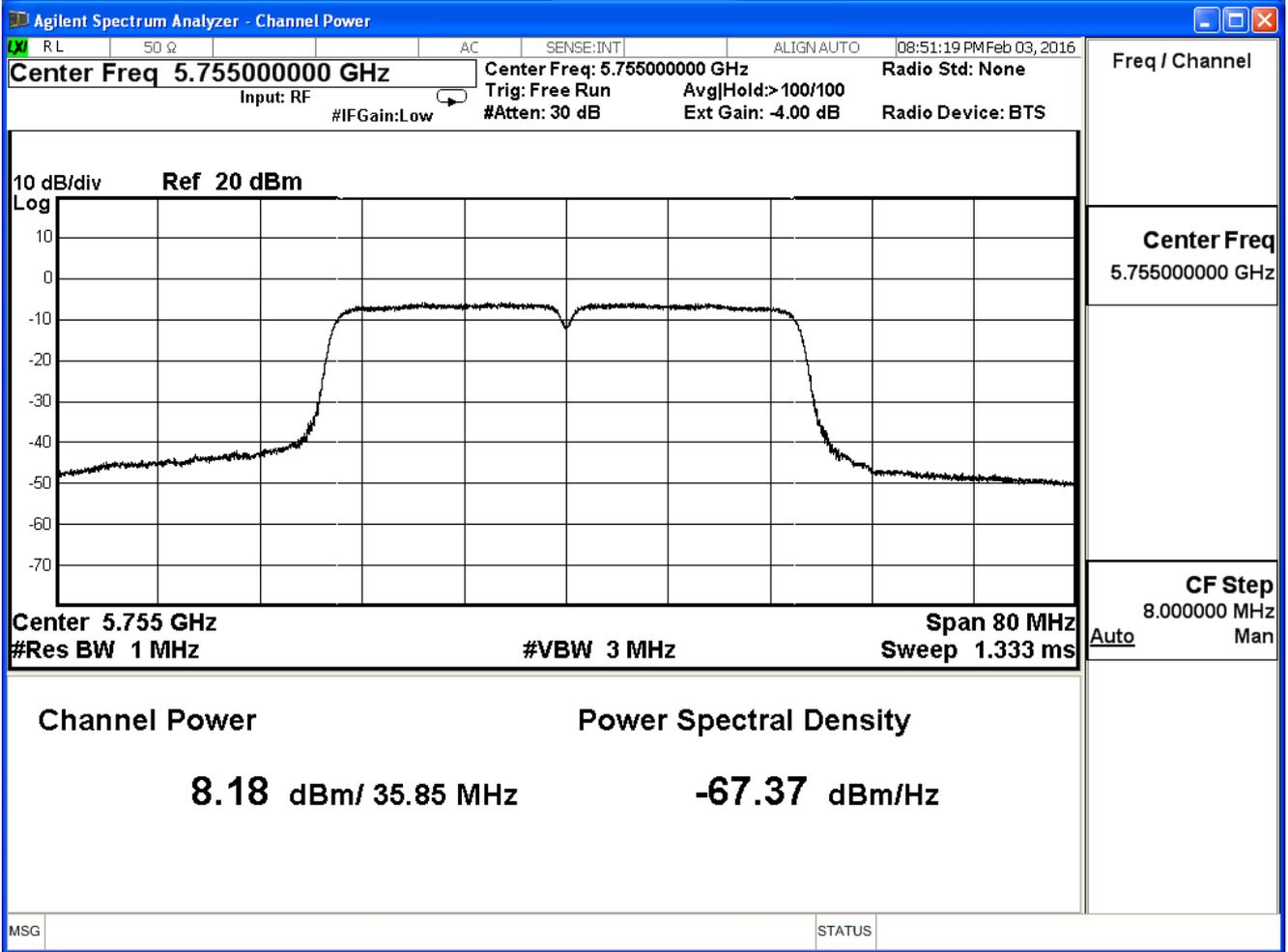
Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
				13.5	27	40.5	54	81	108	121.5
151	5755	8.18	--	--	--	--	--	--	--	29.49dBm
159	5795	14.56	14.46	14.36	14.16	14.06	13.94	13.70	13.46	

Note:

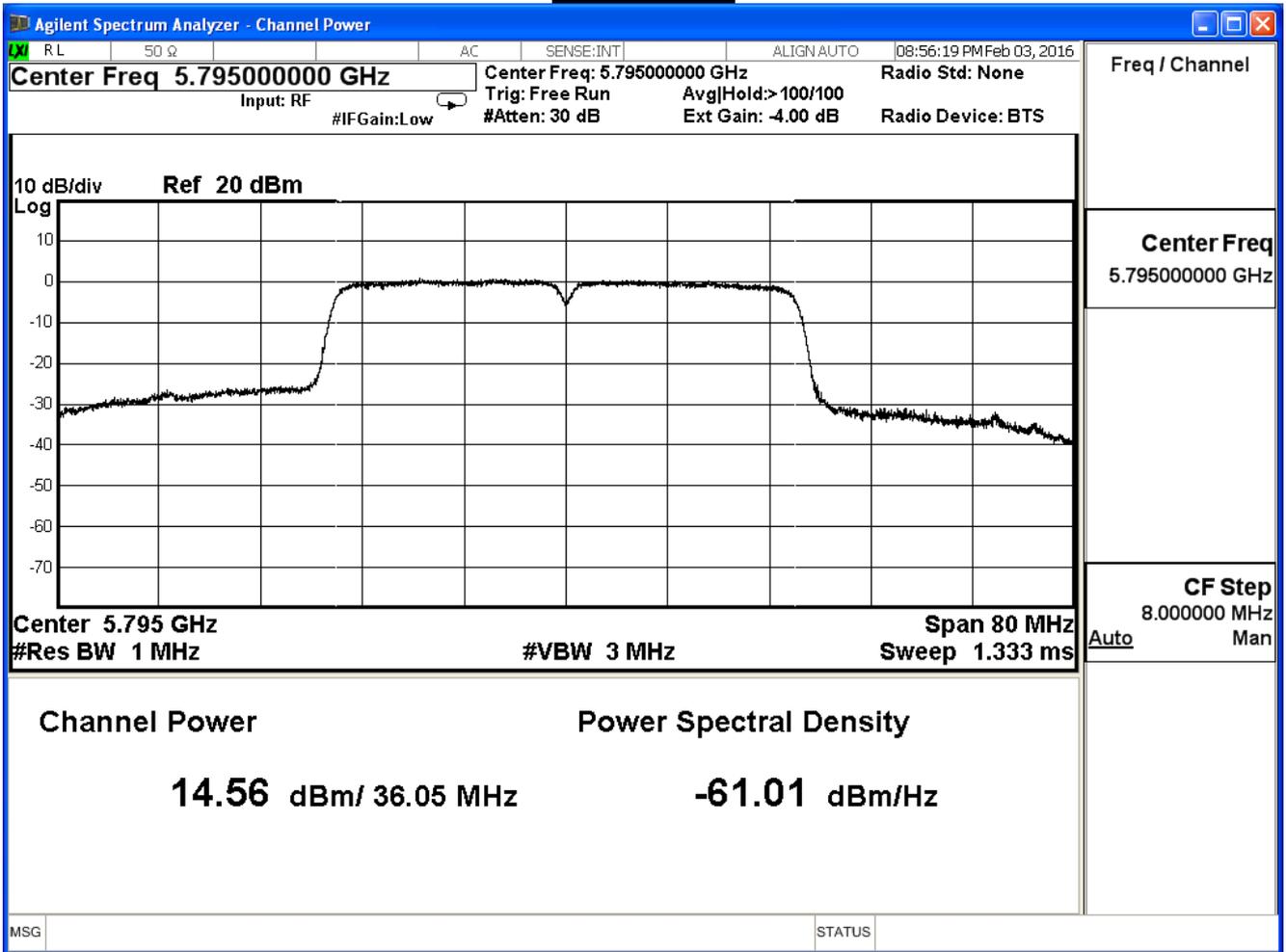
$$10\text{Log}(\text{Ant N})+\text{max Gain} = 10(2)+3.5=6.51\text{dBi}$$

$$\text{Required Limit} = 30\text{dBm}-(6.51\text{dBi}-6\text{dBi})=30-0.51=29.49\text{dBi}$$

Channel 151



Channel 159



Product	Dual-Band Wireless-N600 USB Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2016/02/03	Test Site	SR7

IEEE802.11n 40MHz(ANT 0+1)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
151	5755	11.14	≤29.49
159	5795	17.81	≤29.49

The worst emission of data rate is 13.5 Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13.5	27	40.5	54	81	108	121.5	135	
151	5755	11.14	--	--	--	--	--	--	--	29.49dBm
159	5795	17.81	17.65	17.50	17.30	17.15	16.97	16.79	16.61	

Note:

$$10\text{Log}(\text{Ant N})+\text{max Gain} = 10(2)+3.5=6.51\text{dBi}$$

$$\text{Required Limit} = 30\text{dBm}-(6.51\text{dBi}-6\text{dBi})=30-0.51=29.49\text{dBi}$$

5. Power Density

5.1. Test Equipment

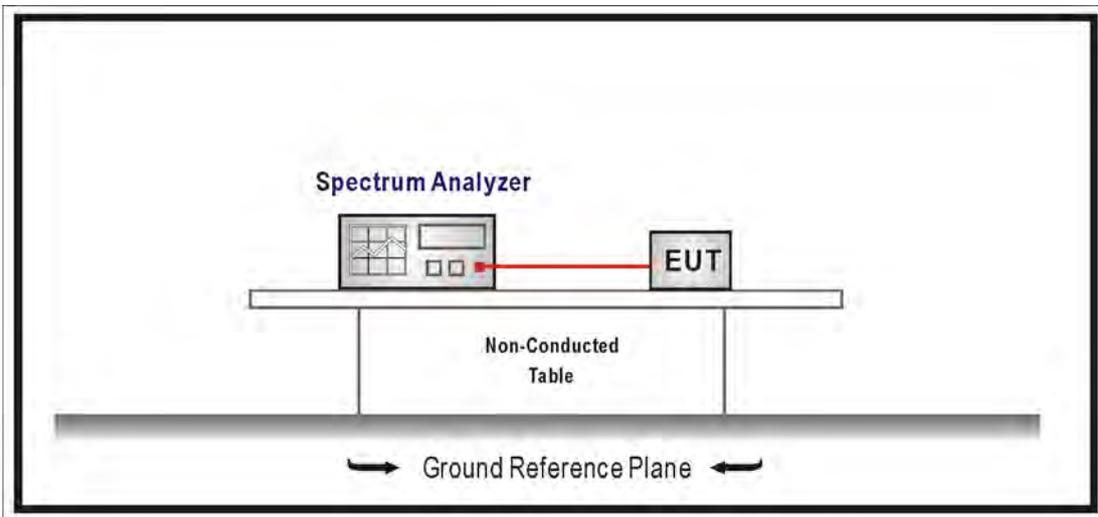
The following test equipments are used during the radiated emission tests:

Power Density / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2016/07/13

Note: 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 C63.10:2013; tested to U-NII test procedure of 789033 D02 General UNII Test Procedures New Rules v01r01 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

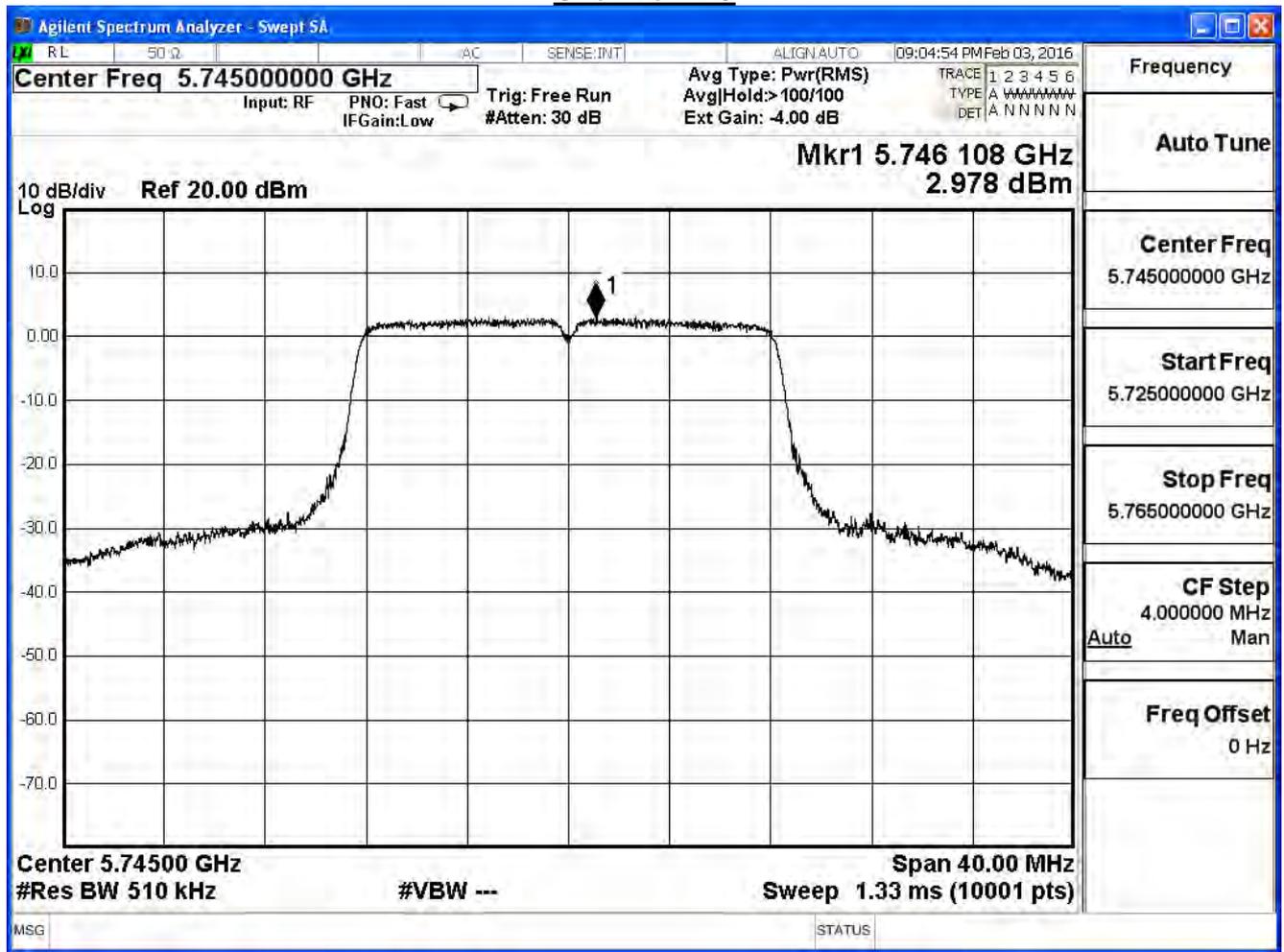
The measurement uncertainty is defined as ± 1.27 dB

5.6. Test Result

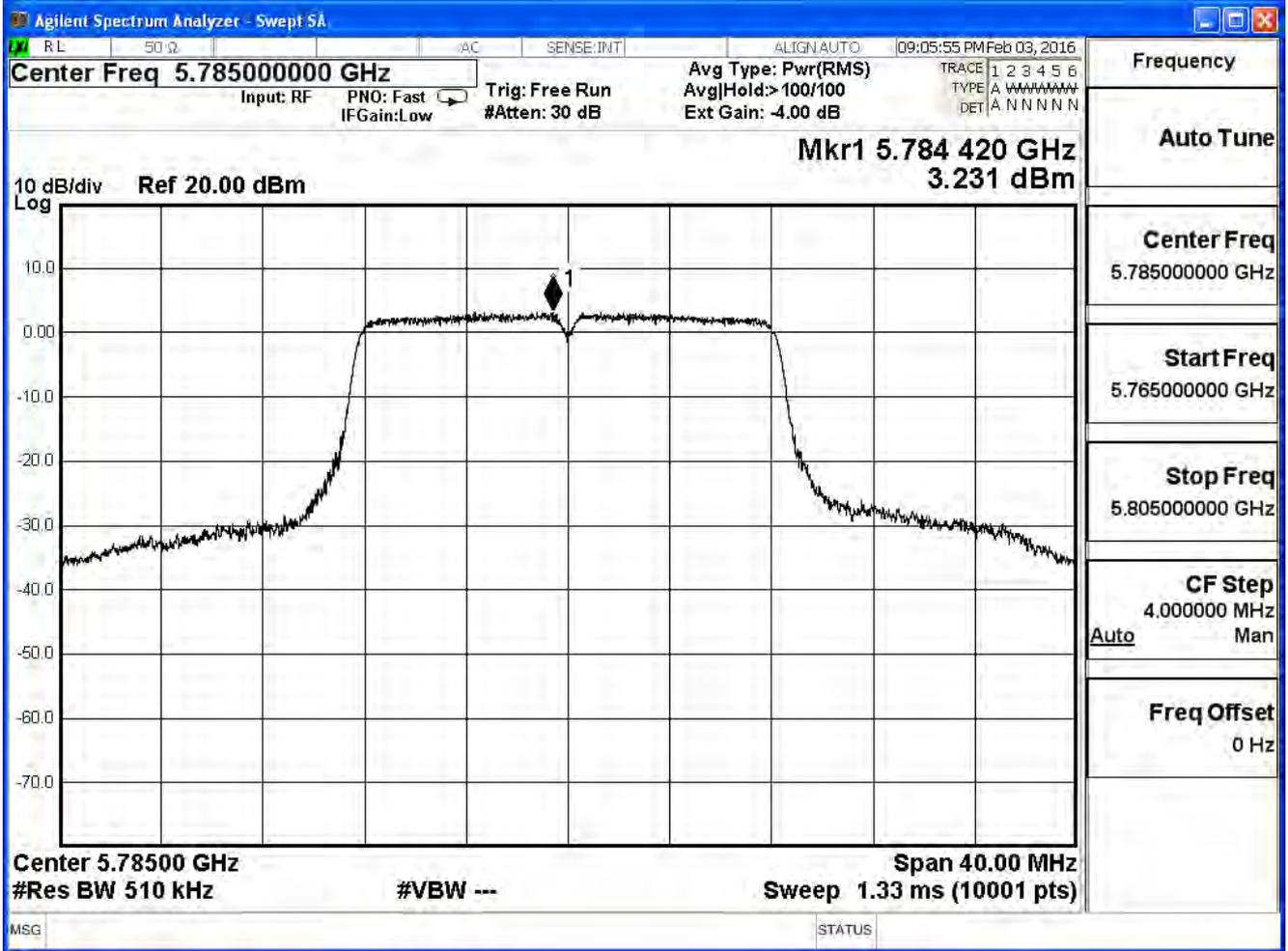
Product	Dual-Band Wireless N-600 Range Extender		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2016/02/03	Test Site	SR7

IEEE 802.11a (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level(dBm)	Limit (dBm)
149	5745	2.978	≤ 30
157	5785	3.231	≤ 30
165	5825	3.600	≤ 30

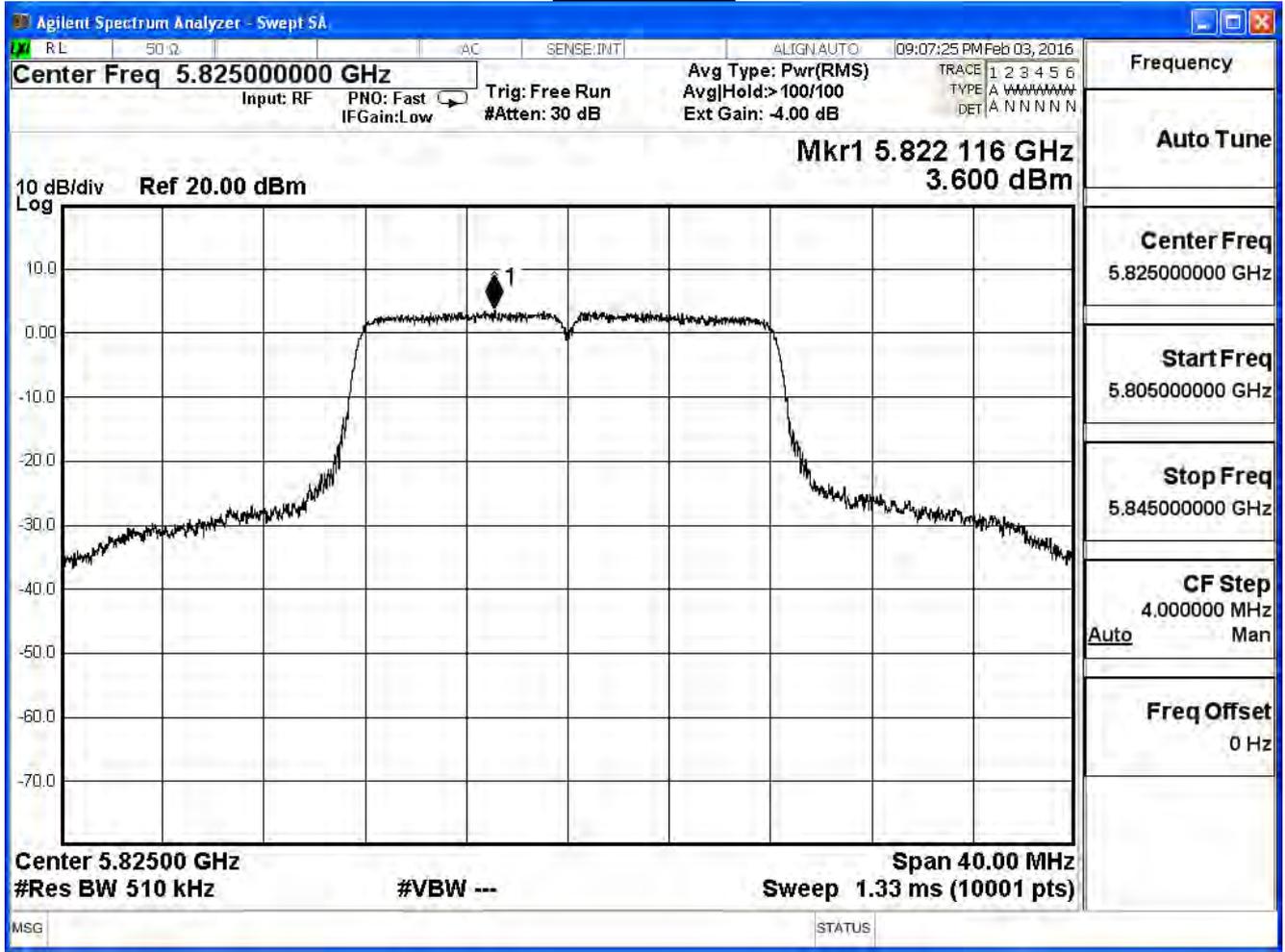
Channel 149



Channel 157



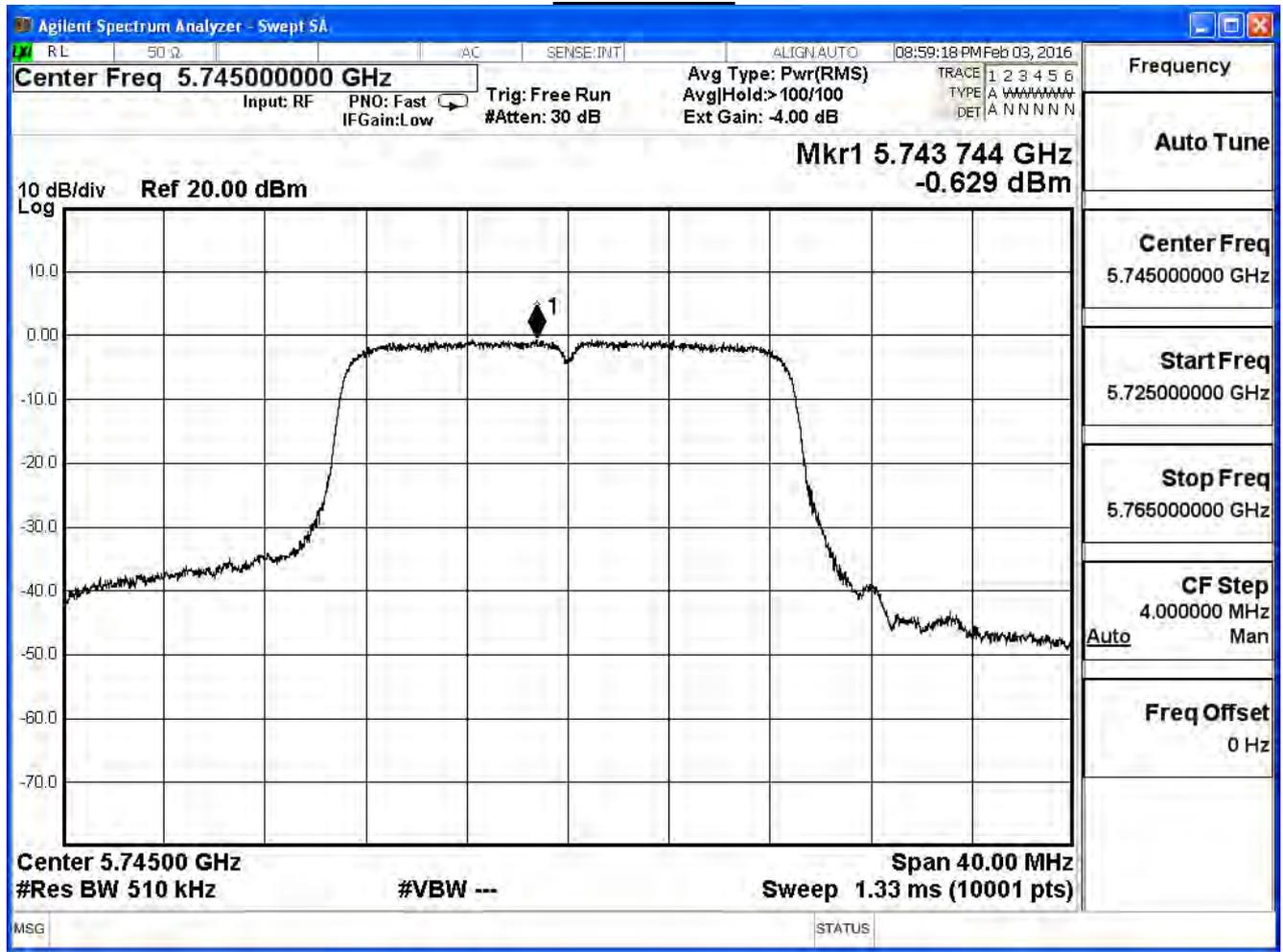
Channel 165



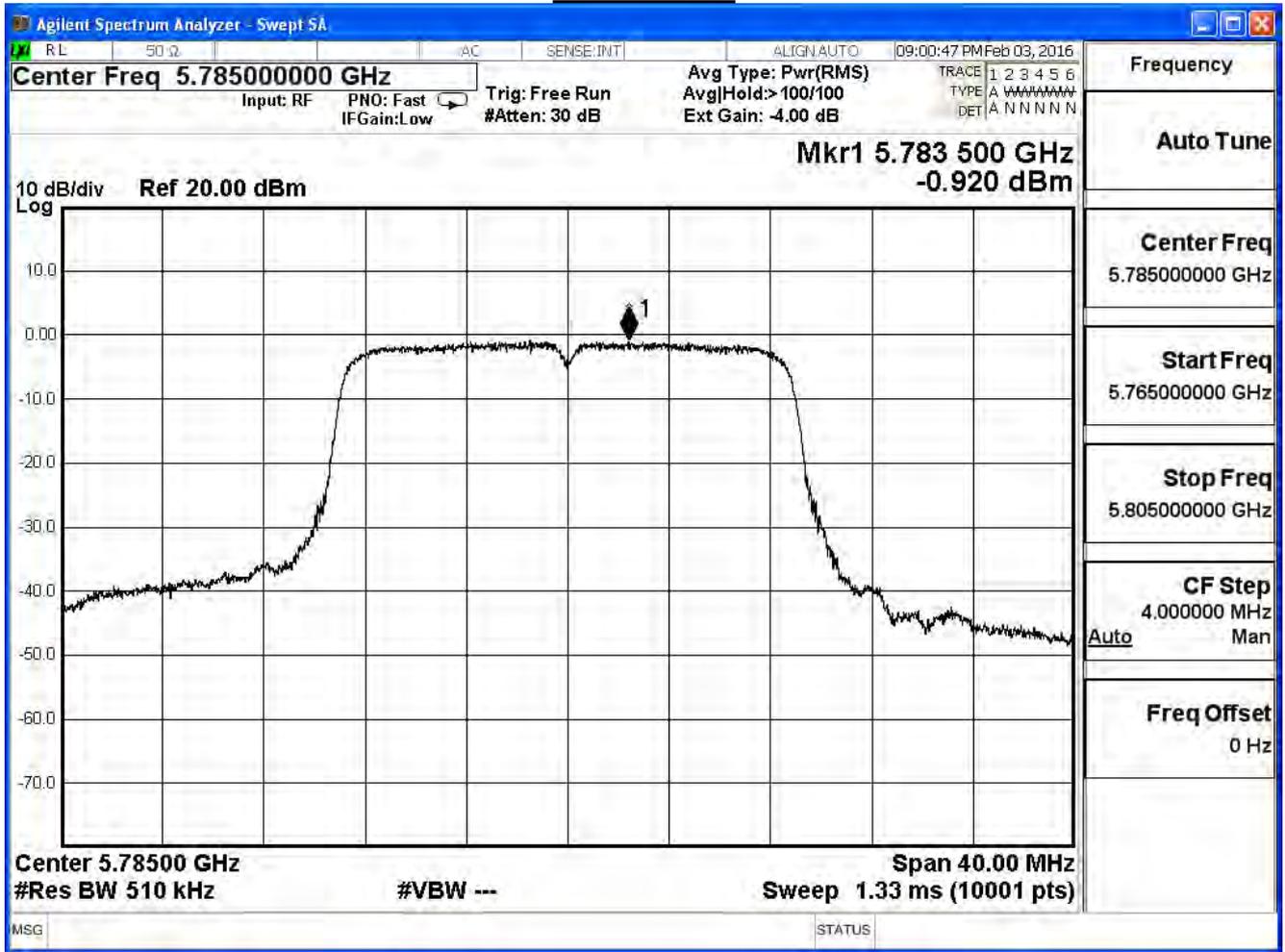
Product	Dual-Band Wireless N-600 Range Extender		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2016/02/03	Test Site	SR7

IEEE802.11n_20MHz_(ANT 0)			
Channel No.	Frequency (MHz)	Measure Level(dBm)	Limit (dBm)
149	5745	-0.629	≤ 29.49
157	5785	-0.920	≤ 29.49
165	5825	-0.407	≤ 29.49

Channel 149



Channel 157



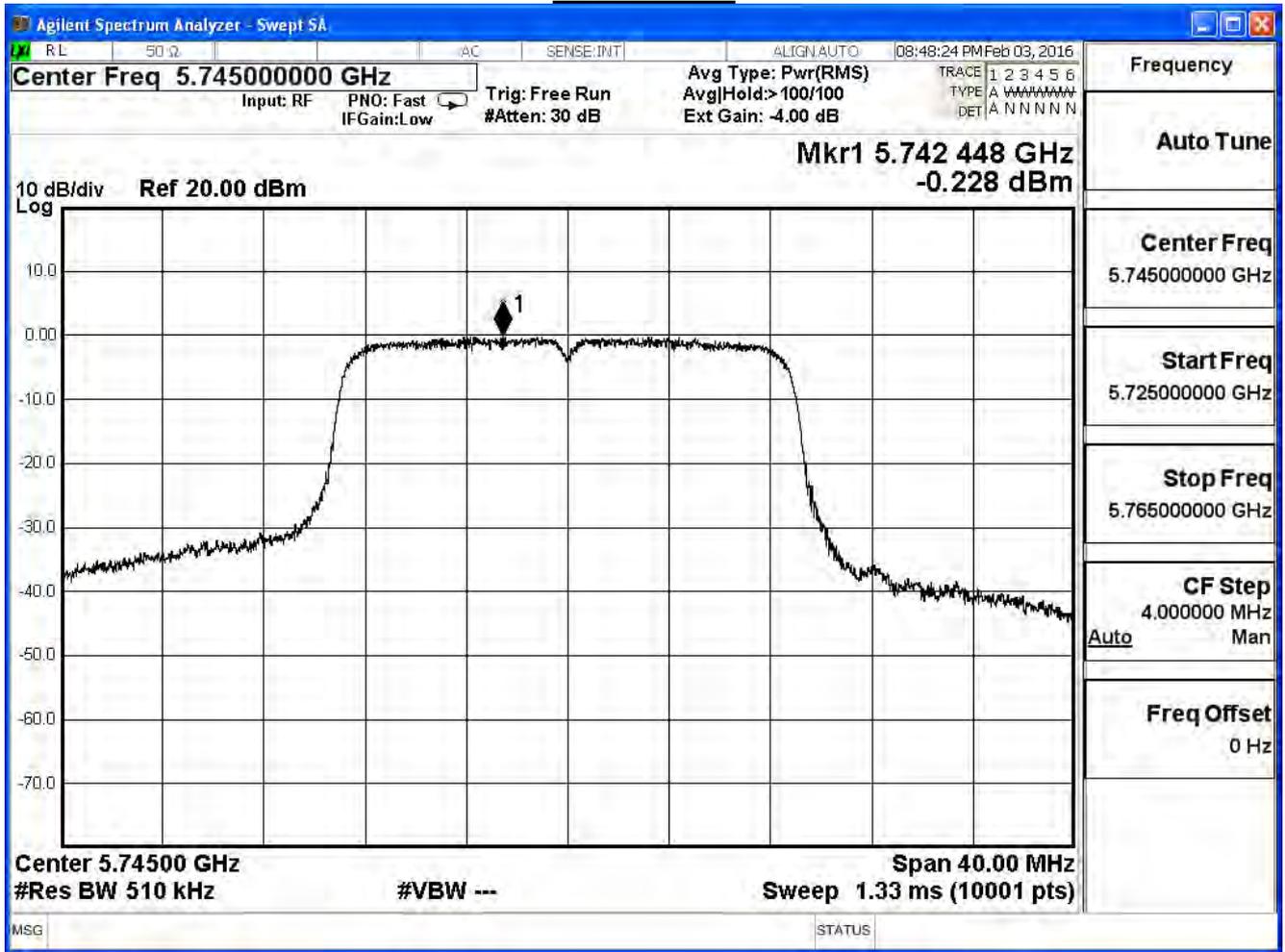
Product	Dual-Band Wireless N-600 Range Extender		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2016/02/03	Test Site	SR7

IEEE802.11n_20MHz_(ANT 1)			
Channel No.	Frequency (MHz)	Measure Level(dBm)	Limit (dBm)
149	5745	-0.228	≤ 29.49
157	5785	-0.690	≤ 29.49
165	5825	0.159	≤ 29.49

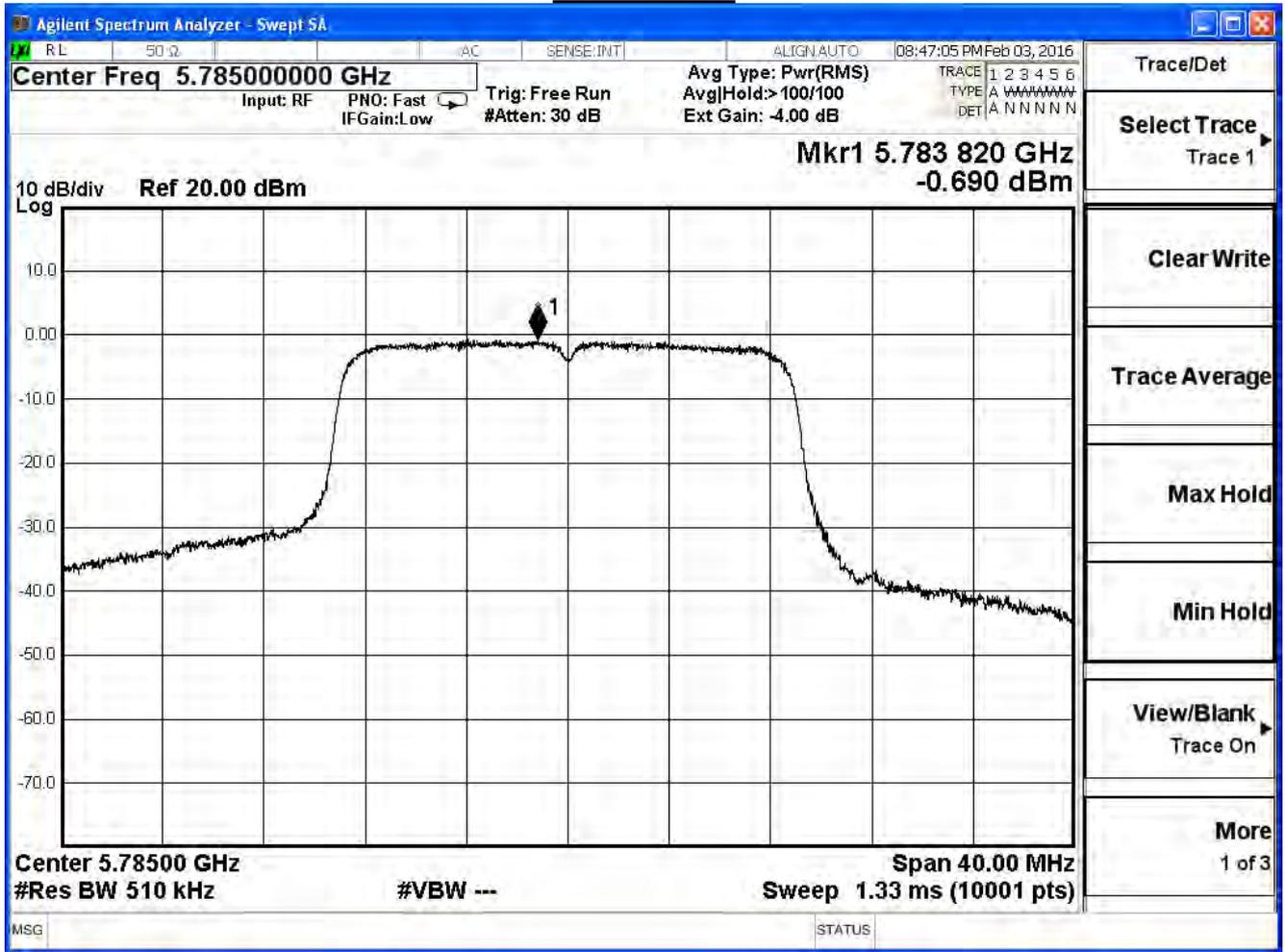
Directional Antenna: Max Gain+10Log(N) = 6.51dBi

Power Density Limit:30dBm-(6.51dBi-6dB)= 29.49dBm

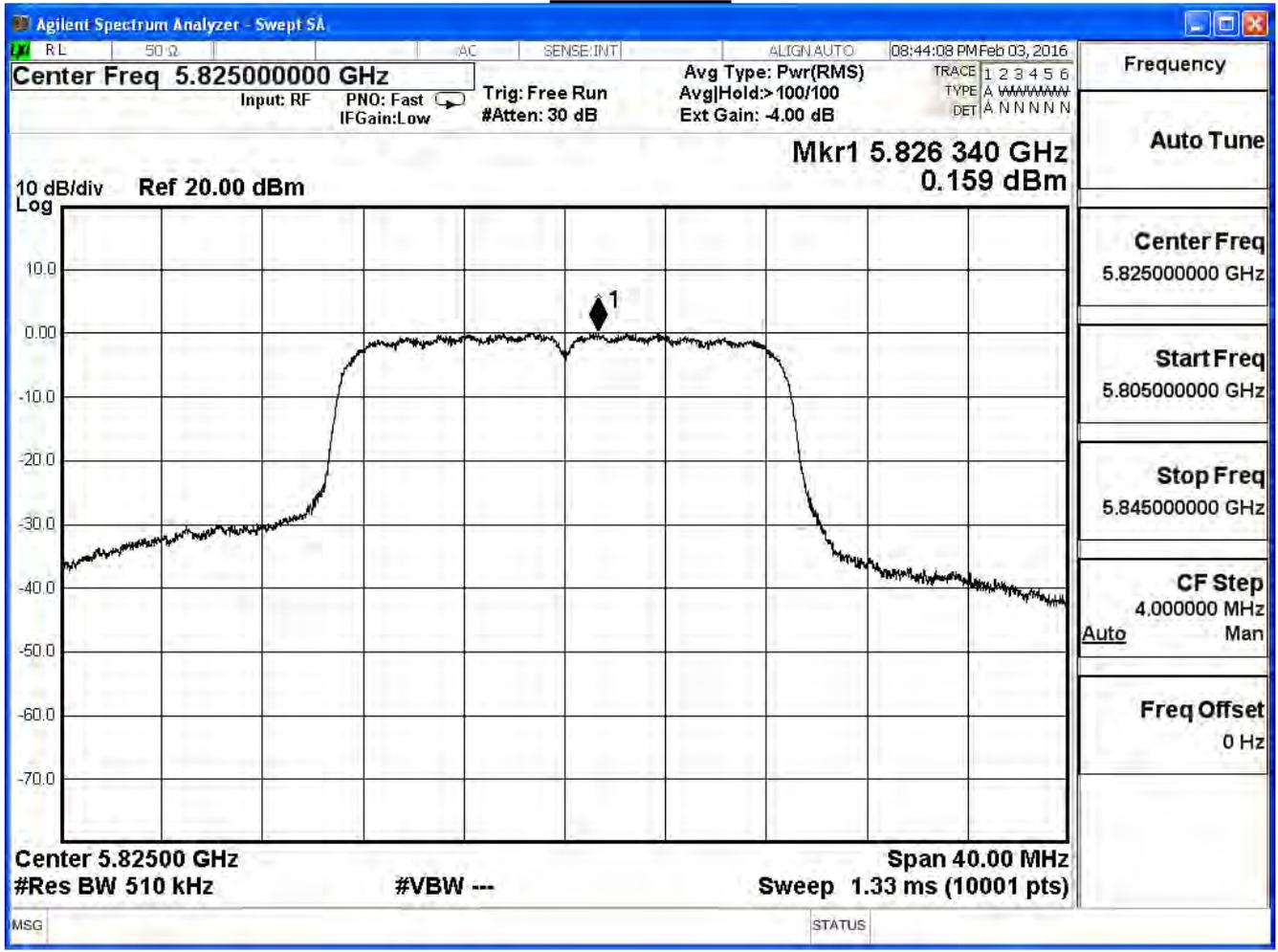
Channel 149



Channel 157



Channel 165



Product	Dual-Band Wireless N-600 Range Extender		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2016/02/03	Test Site	SR7

IEEE802.11n 20MHz(ANT 0+1)

Channel No.	Frequency (MHz)	Measure Level(dBm)	Limit (dBm)
149	5745	2.586	≤ 29.49
157	5785	2.207	≤ 29.49
165	5825	2.896	≤ 29.49

Directional Antenna: Max Gain+10Log(N) = 6.51dBi

Power Density Limit:30dBm-(6.51dBi-6dB)= 29.49dBm

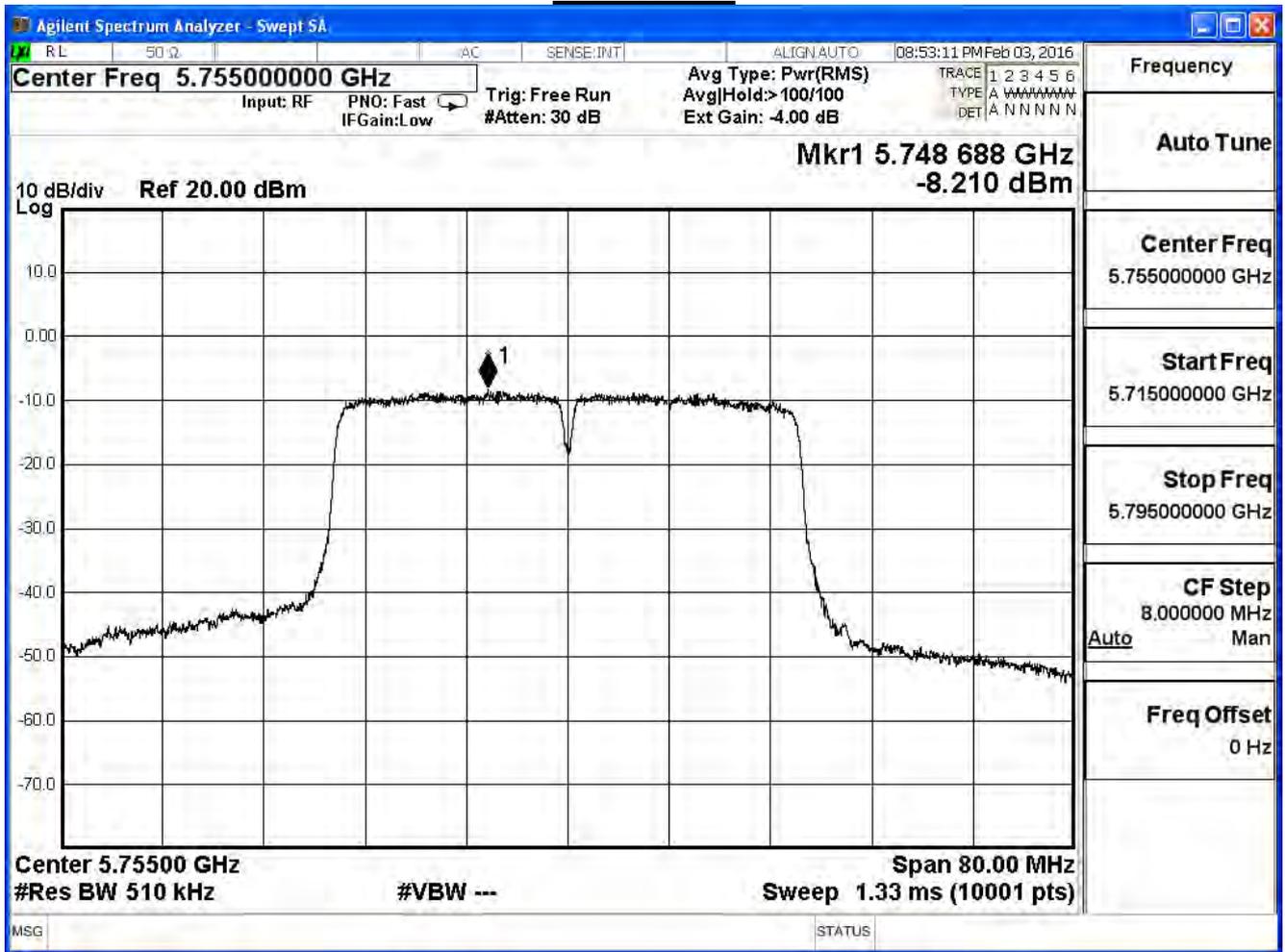
Product	Dual-Band Wireless N-600 Range Extender		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2016/02/03	Test Site	SR7

IEEE 802.11n_40MHz (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level(dBm)	Limit (dBm)
151	5755	-8.210	≤ 29.49
159	5795	-2.089	≤ 29.49

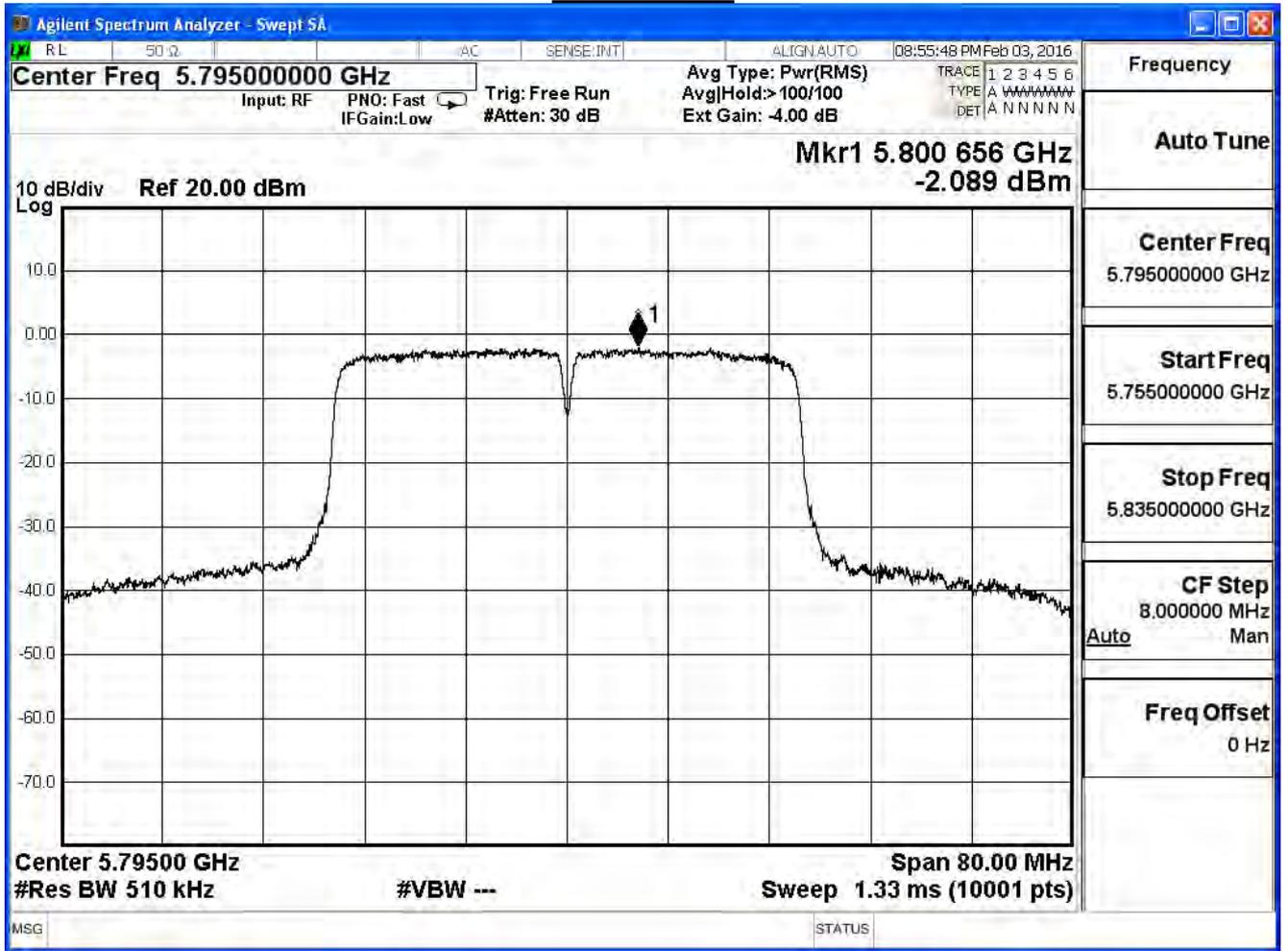
Directional Antenna: Max Gain+10Log(N) = 6.51dBi

Power Density Limit:30dBm-(6.51dBi-6dB)= 29.49dBm

Channel 151



Channel 159



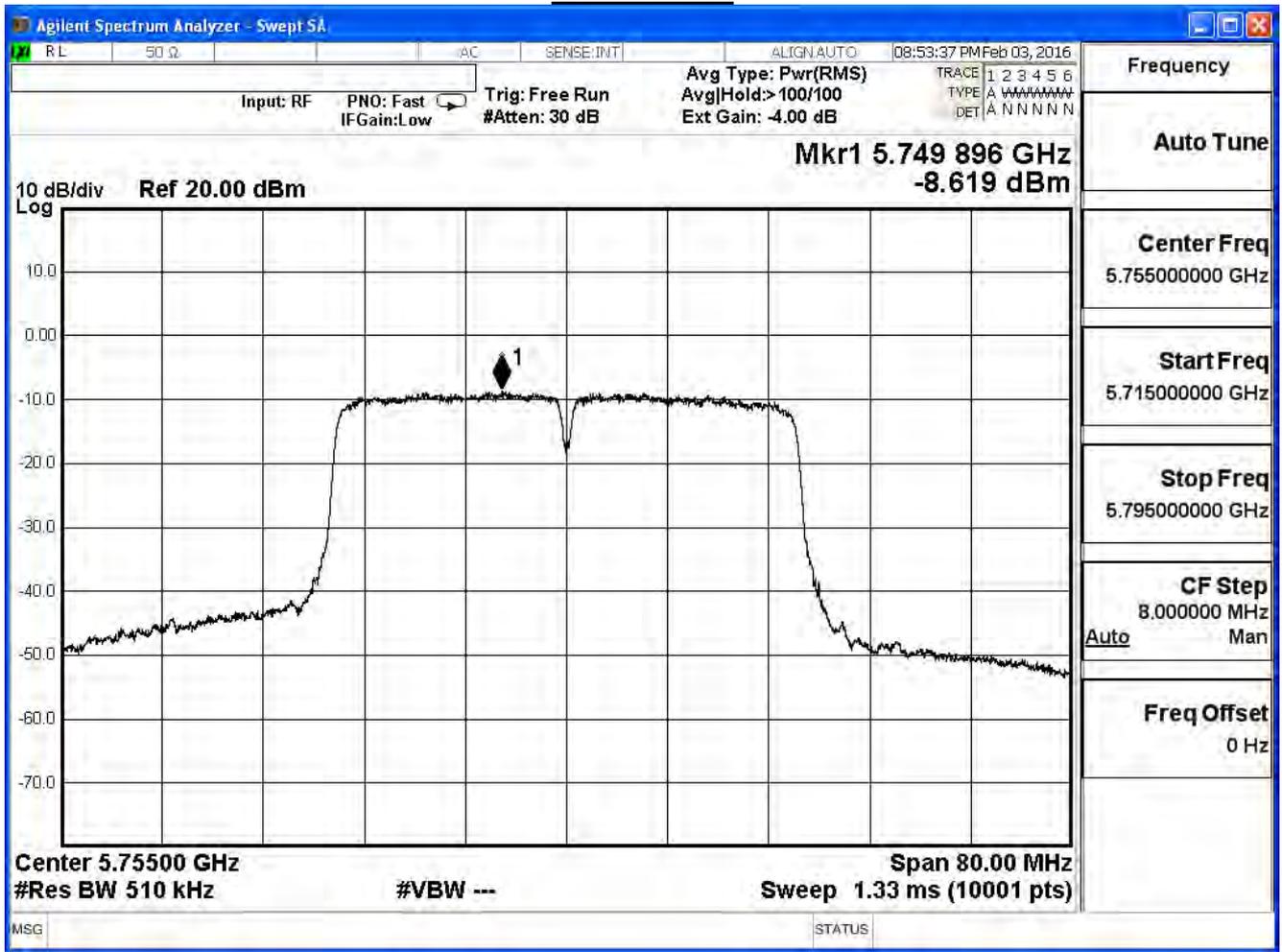
Product	Dual-Band Wireless N-600 Range Extender		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2016/02/03	Test Site	SR7

IEEE 802.11n_40MHz (ANT 1)			
Channel No.	Frequency (MHz)	Measure Level(dBm)	Limit (dBm)
151	5755	-8.619	≤29.49
159	5795	-2.030	≤29.49

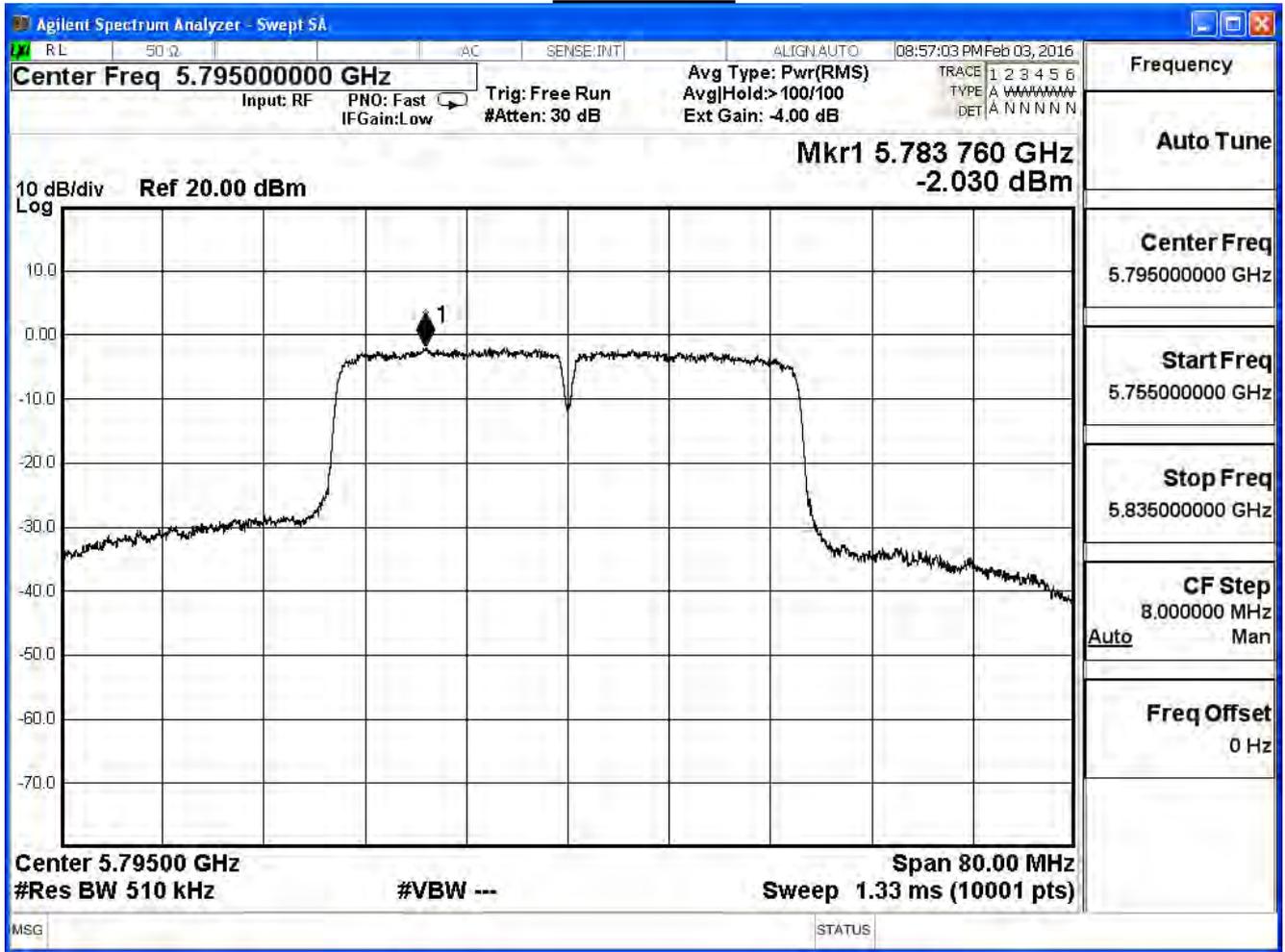
Directional Antenna: Max Gain+10Log(N) = 6.51dBi

Power Density Limit:30dBm-(6.51dBi-6dB)= 29.49dBm

Channel 151



Channel 159



Product	Dual-Band Wireless N-600 Range Extender		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2016/02/03	Test Site	SR7

IEEE802.11n 40MHz(ANT 0+1)

Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)
151	5755	-5.399	≤ 29.49
159	5795	0.951	≤ 29.49

Directional Antenna: Max Gain+10Log(N) = 6.51dBi

Power Density Limit:30dBm-(6.51dBi-6dB)= 29.49dBm

6. Radiated Emission

6.1. Test Equipment

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

Radiated Emission / CB1 (Under 1GHz)

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Bilog Antenna	SCHAFFNER	CBL6112B	2895	2013/08/14
Double Ridged Guide Horn Antenna	Schwarzback	BBHA 9120	D743	2014/02/17
Pre-Amplifier	MITEQ	AMF-4D-005180-24-10P	888003	2013/12/02
Pre-Amplifier	QuieTek	AP-025C	CHM-0706049	2014/02/19
Spectrum Analyzer	Agilent	E4440A	MY46187335	2014/01/27
k Type Cable	Huber Suhner	Sucoflex 102	25623/2	2014/02/21

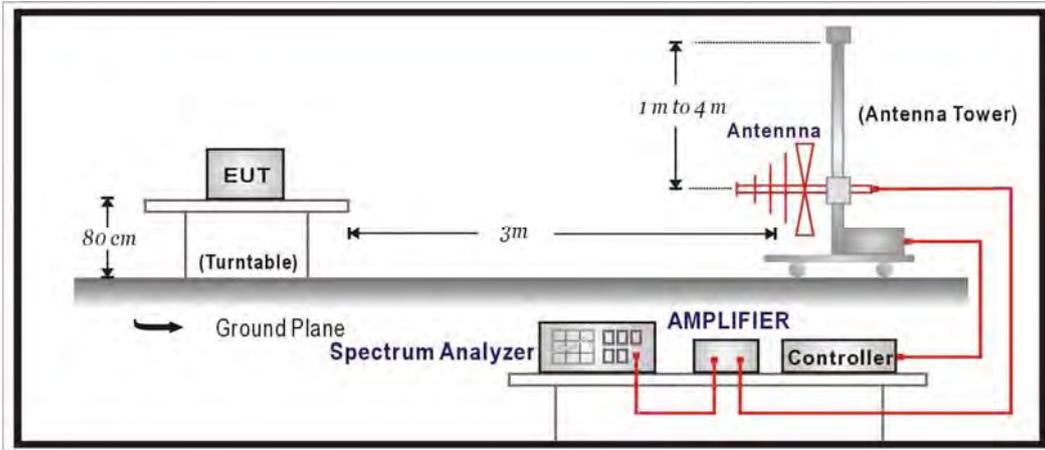
Radiated Emission / CB1 (Above 1GHz)

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Bilog Antenna	Schaffner	CBL6112B	2895	2016/08/14
Double Ridged Guide Horn Antenna	Schwarzbeck	BBHA 9120	D743	2017/01/14
Pre-Amplifier	EMCI	EMC0031835	4583/10/13	2017/01/18
Pre-Amplifier	QuieTek	AP-025C	CHM-0706049	2017/01/03
Spectrum Analyzer	Agilent	E4440A	MY46187335	2016/12/24
k Type Cable	Huber+Suhner	SF 102	25623/2	2017/01/11
Horn Antenna	Schwarzbeck	BBHA 9170	203	2016/09/07
Signal & Spectrum Analyzer	R&S	FSV40	101049	2017/01/05

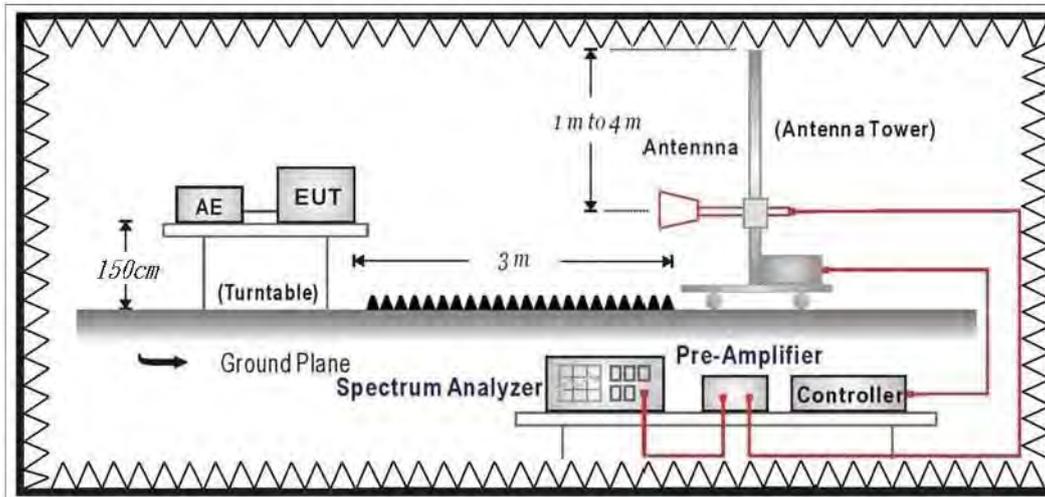
Note: All equipments that need to calibrate are with calibration period of 1 year.

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 or 1.5 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 C63.10:2013 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

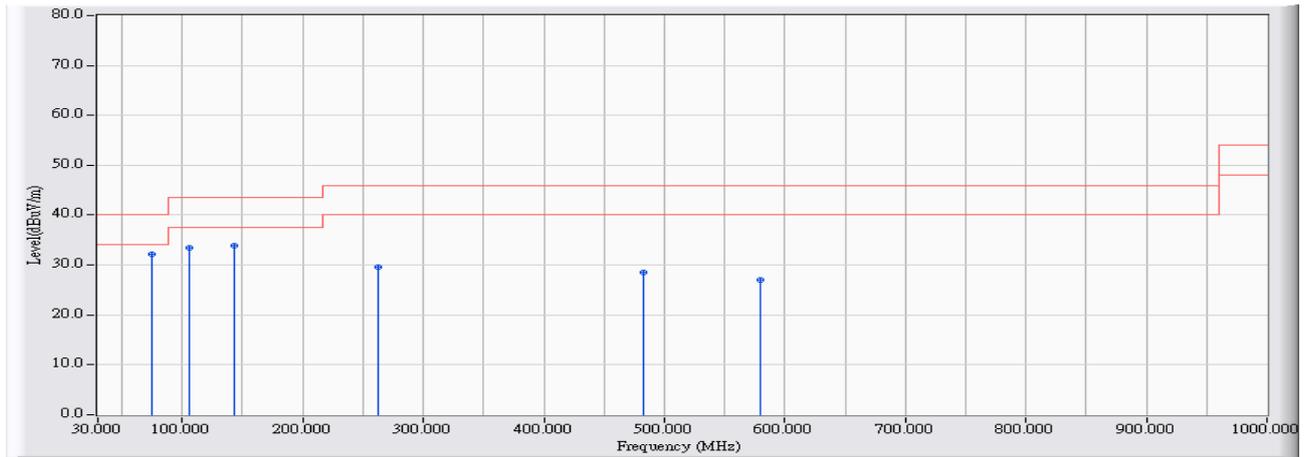
30MHz~1GHz as $\pm 3.43\text{dB}$

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

6.6. Test Result

30MHz-1GHz Spurious

Site : CB1	Time : 2013/06/12 - 10:45
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11a_5785MHz

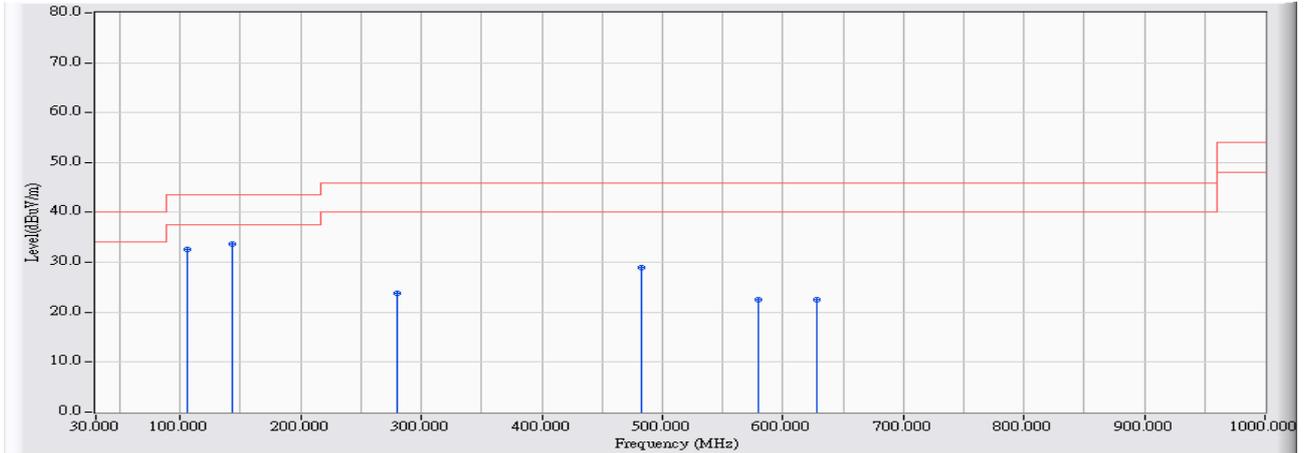


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	75.266	-47.800	79.875	32.075	-7.925	40.000	QUASPEAK
2		105.983	-43.644	77.162	33.518	-9.982	43.500	QUASPEAK
3		143.167	-43.802	77.675	33.873	-9.627	43.500	QUASPEAK
4		262.800	-41.606	71.179	29.573	-16.427	46.000	QUASPEAK
5		482.667	-36.349	64.806	28.457	-17.543	46.000	QUASPEAK
6		579.667	-35.245	62.352	27.107	-18.893	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 : 2013/06/12 - 10:49
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11a_5785MHz

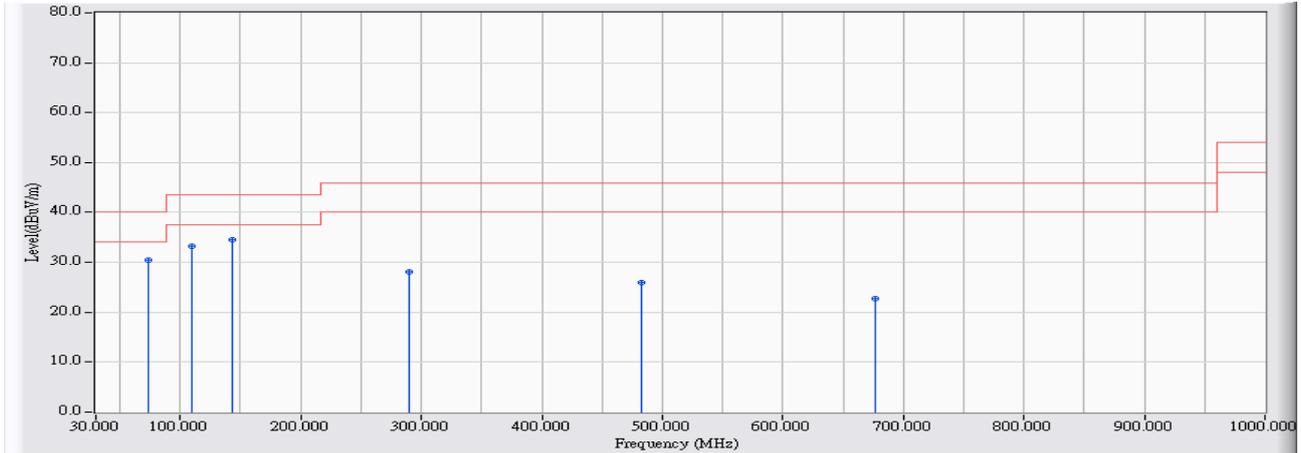


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		105.983	-43.644	76.224	32.580	-10.920	43.500	QUASPEAK
2	*	143.167	-43.802	77.563	33.761	-9.739	43.500	QUASPEAK
3		280.583	-41.244	65.004	23.760	-22.240	46.000	QUASPEAK
4		482.667	-36.349	65.306	28.957	-17.043	46.000	QUASPEAK
5		579.667	-35.245	57.845	22.600	-23.400	46.000	QUASPEAK
6		628.167	-34.847	57.315	22.468	-23.532	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 : 2013/06/12 - 11:03
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11n(20MHz)_5785MHz

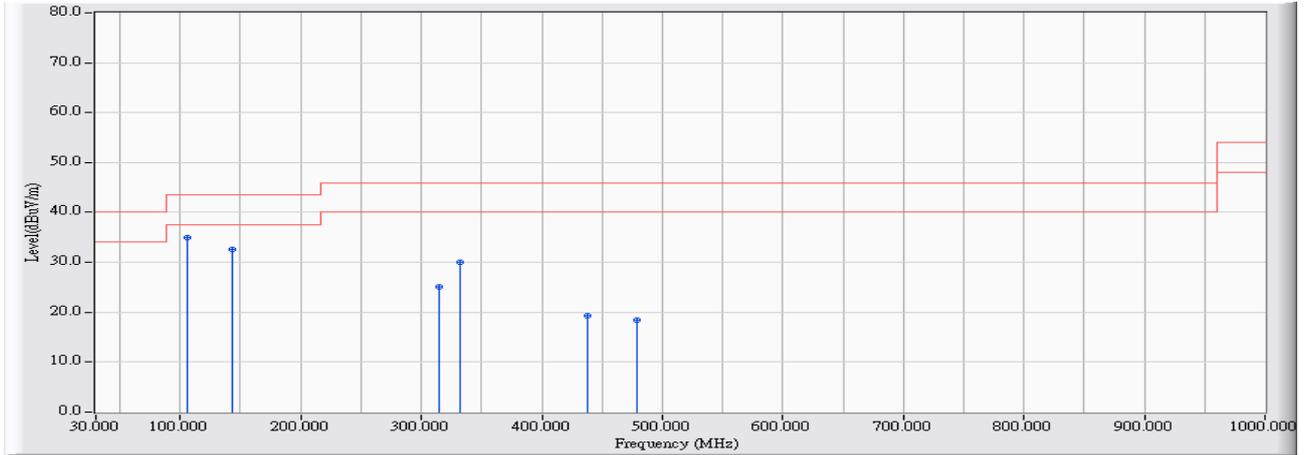


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	73.640	-47.920	78.465	30.545	-9.455	40.000	QUASPEAK
2	109.213	-43.487	76.695	33.208	-10.292	43.500	QUASPEAK
3	* 143.167	-43.802	78.285	34.483	-9.017	43.500	QUASPEAK
4	290.283	-41.046	69.032	27.986	-18.014	46.000	QUASPEAK
5	482.667	-36.349	62.354	26.005	-19.995	46.000	QUASPEAK
6	676.667	-34.462	57.108	22.646	-23.354	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 : 2013/06/12 - 11:08
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11n(20MHz)_5785MHz

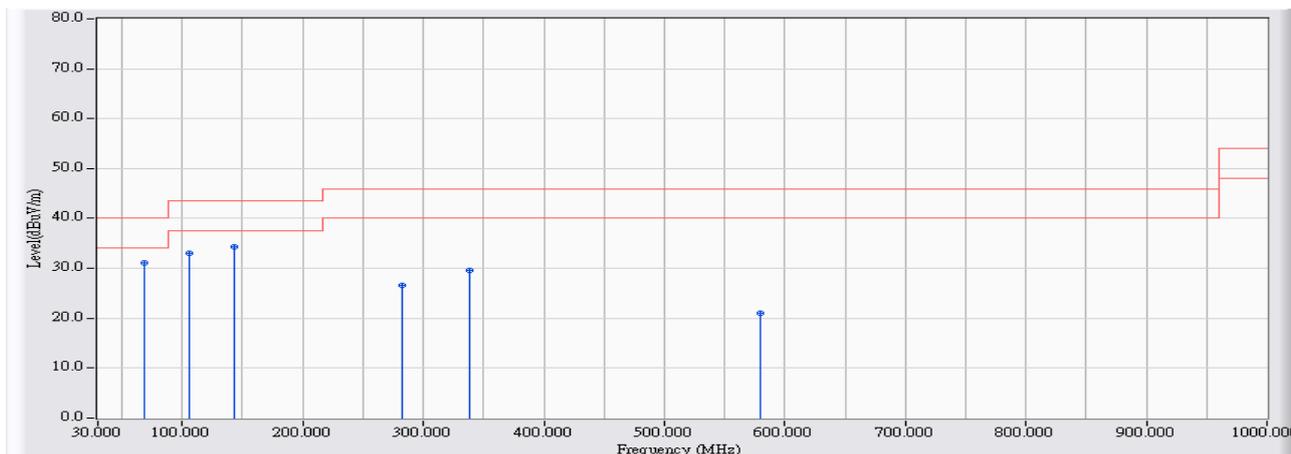


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	105.981	-43.644	78.535	34.891	-8.609	43.500	QUASPEAK
2		143.166	-43.802	76.432	32.630	-10.870	43.500	QUASPEAK
3		314.532	-40.458	65.585	25.127	-20.873	46.000	QUASPEAK
4		332.317	-39.983	69.987	30.004	-15.996	46.000	QUASPEAK
5		437.400	-37.342	56.565	19.223	-26.777	46.000	QUASPEAK
6		479.433	-36.422	54.911	18.489	-27.511	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 : 2013/06/12 - 11:12
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11n(40MHz)_5795MHz

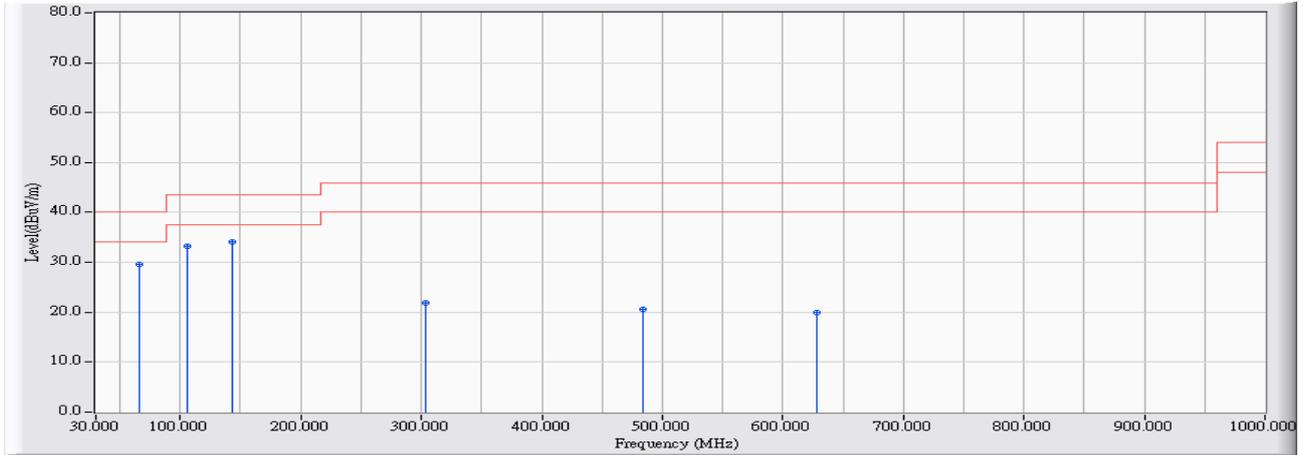


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	68.800	-48.165	79.342	31.177	-8.823	40.000	QUASPEAK
2		105.982	-43.644	76.653	33.009	-10.491	43.500	QUASPEAK
3		143.167	-43.802	78.211	34.409	-9.091	43.500	QUASPEAK
4		282.200	-41.209	67.868	26.659	-19.341	46.000	QUASPEAK
5		338.783	-39.811	69.404	29.593	-16.407	46.000	QUASPEAK
6		579.666	-35.245	56.152	20.907	-25.093	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 : 2013/06/12 - 11:19
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11n(40MHz)_5795MHz



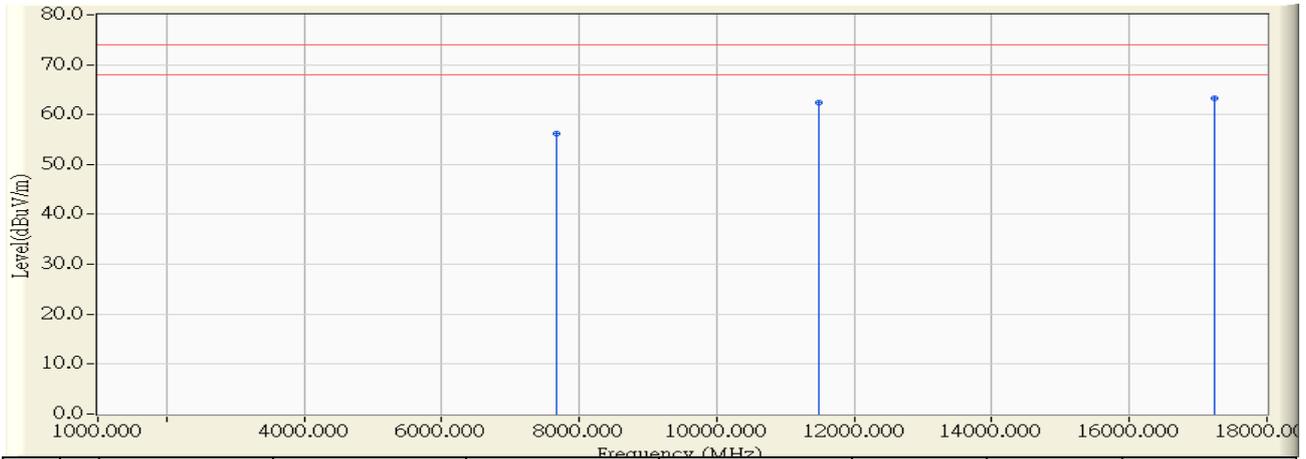
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	65.566	-48.105	77.674	29.569	-10.431	40.000	QUASPEAK
2	105.982	-43.644	76.772	33.128	-10.372	43.500	QUASPEAK
3	* 143.167	-43.802	77.851	34.049	-9.451	43.500	QUASPEAK
4	303.217	-40.761	62.593	21.832	-24.168	46.000	QUASPEAK
5	484.281	-36.312	56.954	20.642	-25.358	46.000	QUASPEAK
6	628.166	-34.847	54.675	19.828	-26.172	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.

Harmonic & Spurious:

Site : CB1	Time : 2016/02/02 - 17:01
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11a_5745MHz



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	7660.255	6.692	49.510	56.202	-17.798	74.000	PEAK
2	11491.750	11.037	51.360	62.397	-11.603	74.000	PEAK
3	* 17238.075	14.376	48.990	63.366	-10.634	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 = 3 MHz, 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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2016/02/02 - 17:06
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11a_5745MHz

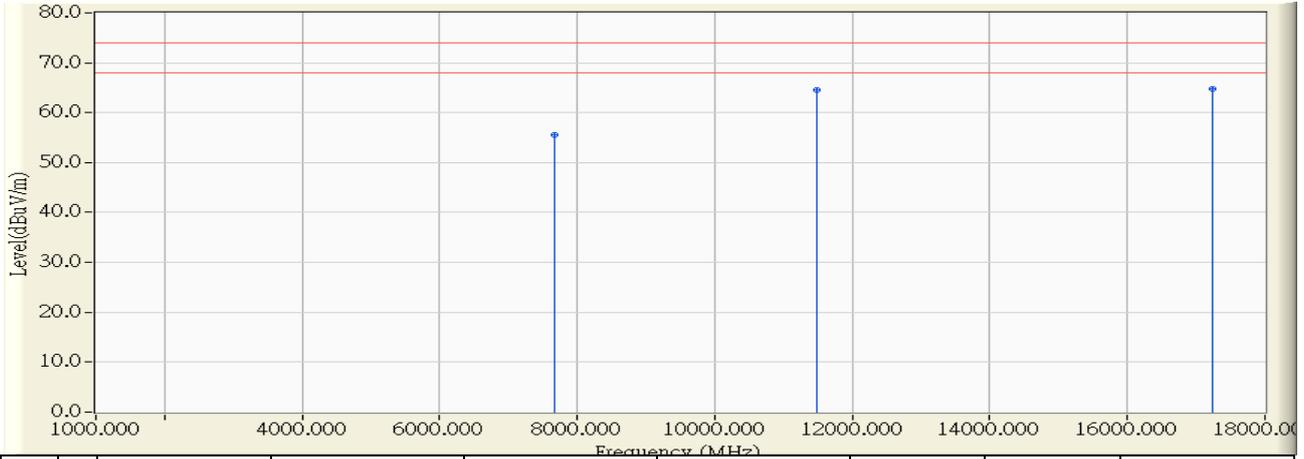


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7660.045	6.691	42.650	49.342	-4.658	54.000	AVERAGE
2		11491.350	11.037	37.610	48.648	-5.352	54.000	AVERAGE
3		17237.475	14.374	34.540	48.913	-5.087	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2016/02/02 - 17:10
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11a_5745MHz

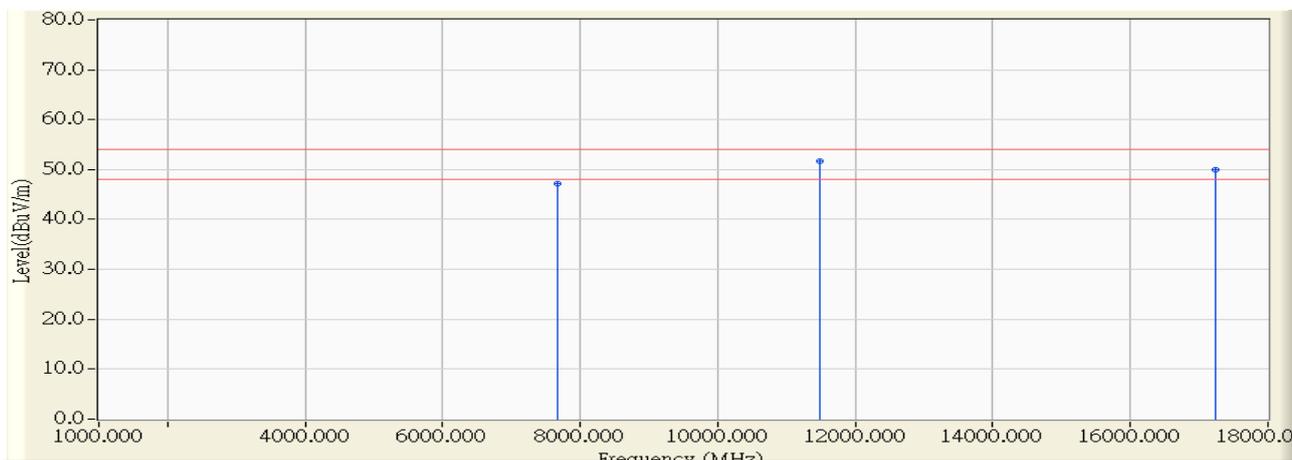


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	7659.785	6.191	49.360	55.551	-18.449	74.000	PEAK
2	11491.625	10.783	53.710	64.493	-9.507	74.000	PEAK
3	* 17229.600	14.336	50.540	64.876	-9.124	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2016/02/02 - 17:15
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11a_5745MHz

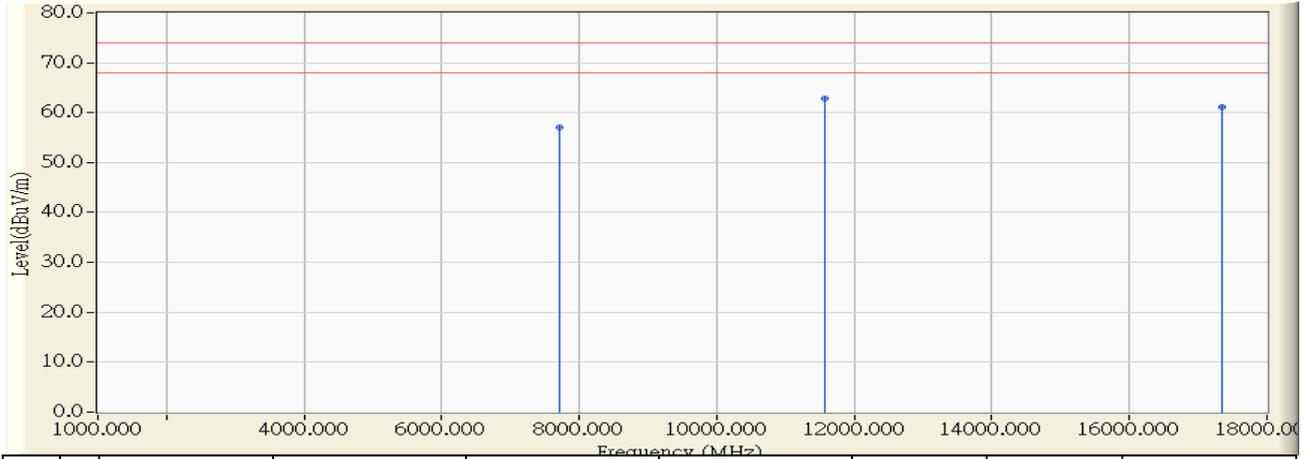


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	7660.005	6.191	41.060	47.252	-6.748	54.000	AVERAGE
2	* 11489.800	10.786	40.860	51.646	-2.354	54.000	AVERAGE
3	17234.780	14.360	35.600	49.961	-4.039	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2016/02/02 - 17:19
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11a_5785MHz



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	7773.320	6.776	50.290	57.066	-16.934	74.000	PEAK
2	* 11571.875	10.938	51.950	62.888	-11.112	74.000	PEAK
3	17349.575	14.911	46.160	61.071	-12.929	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 = 3 MHz, 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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2016/02/02 - 17:23
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11a_5785MHz

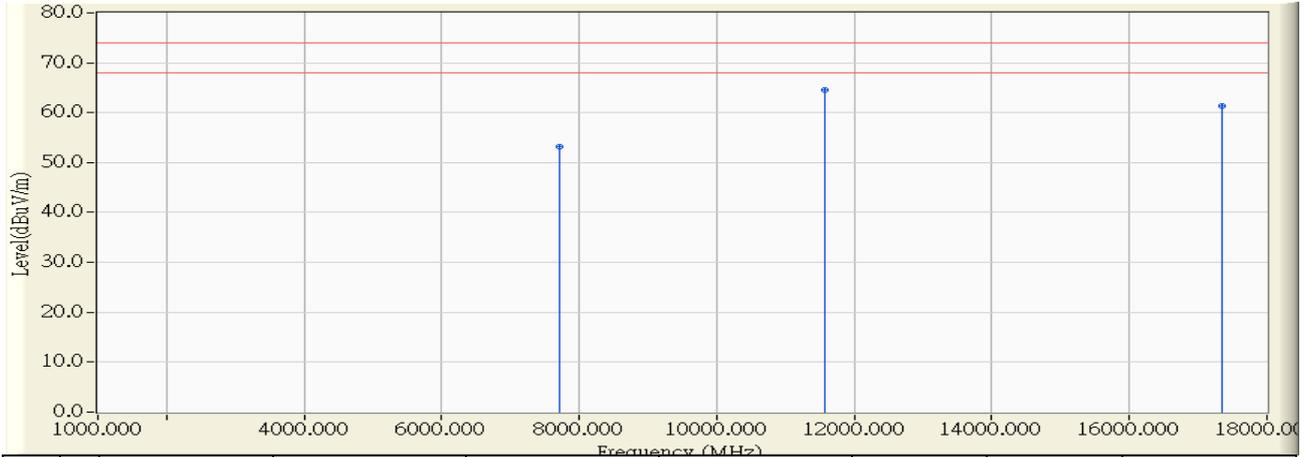


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7713.280	6.776	44.050	50.826	-3.174	54.000	AVERAGE
2		11571.475	10.938	38.300	49.238	-4.762	54.000	AVERAGE
3		17354.825	14.937	32.340	47.276	-6.724	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2016/02/02 - 17:27
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11a_5785MHz

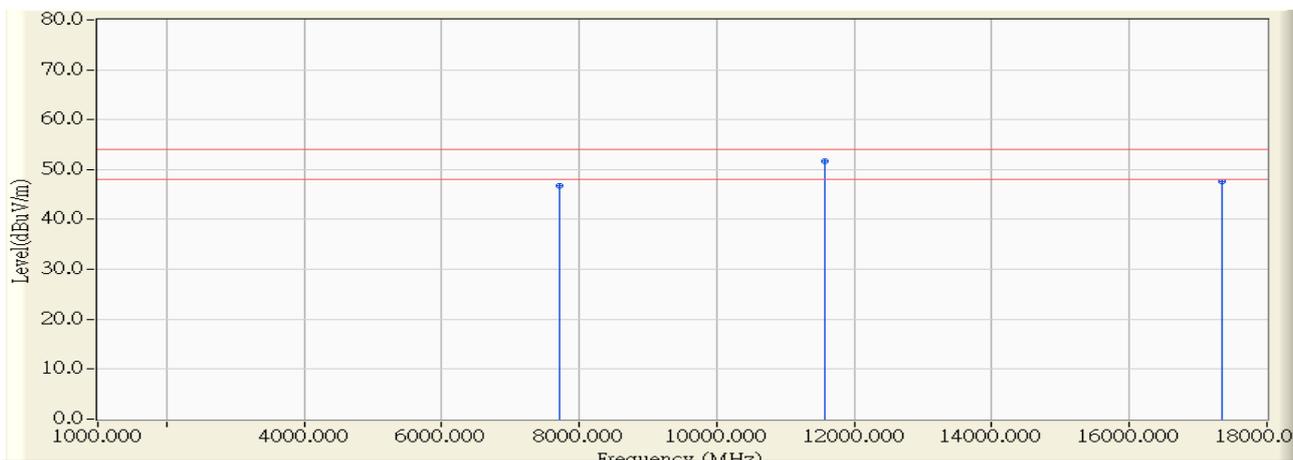


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	7773.400	6.276	46.950	53.226	-20.774	74.000	PEAK
2	* 11567.000	10.652	53.880	64.532	-9.468	74.000	PEAK
3	17356.825	14.946	46.480	61.426	-12.574	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2016/02/02 - 17:30
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11a_5785MHz

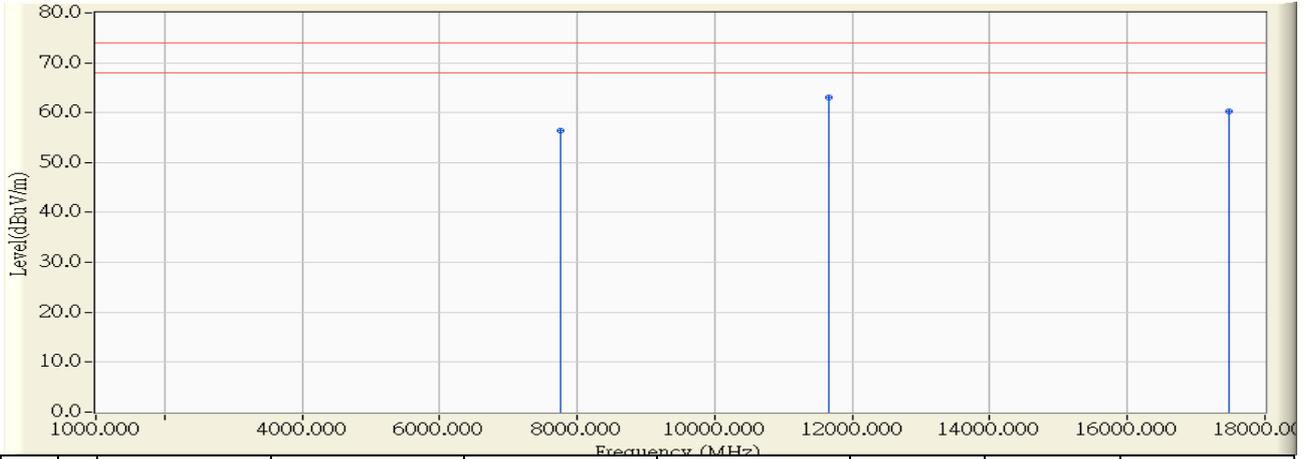


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	7771.330	6.276	40.520	46.796	-7.204	54.000	AVERAGE
2	* 11571.525	10.644	41.150	51.794	-2.206	54.000	AVERAGE
3	17354.600	14.935	32.750	47.685	-6.315	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2016/02/02 - 17:36
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11a_5825MHz



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	7766.590	6.860	49.480	56.340	-17.660	74.000	PEAK
2	* 11651.800	10.839	52.160	62.999	-11.001	74.000	PEAK
3	17476.850	15.534	44.650	60.184	-13.816	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 = 3 MHz, 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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2016/02/02 - 17:41
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11a_5825MHz

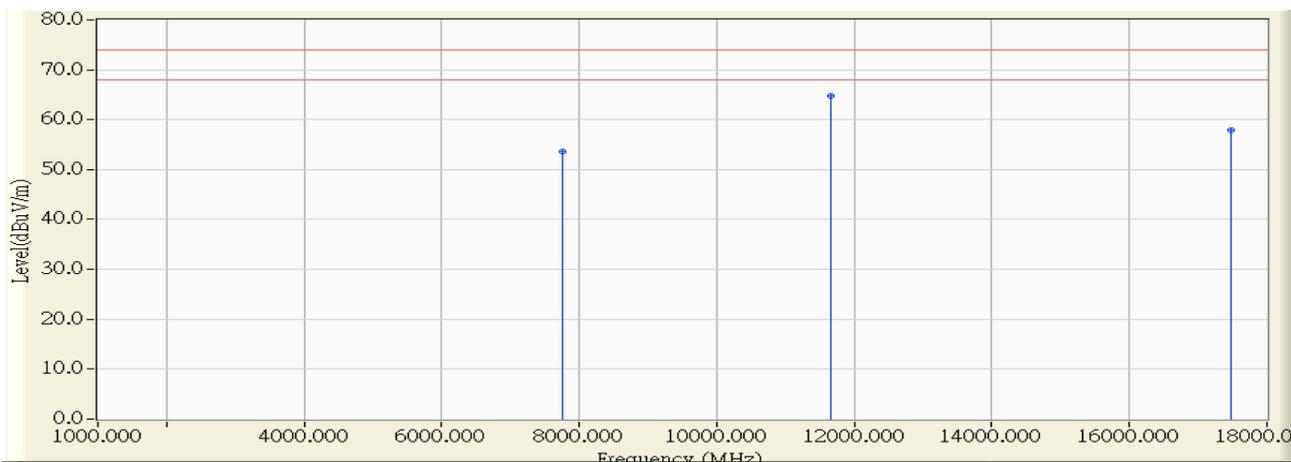


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	7766.670	6.860	42.580	49.440	-4.560	54.000	AVERAGE
2	* 11650.400	10.841	38.930	49.771	-4.229	54.000	AVERAGE
3	17477.050	15.535	30.530	46.065	-7.935	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2016/02/02 - 17:45
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11a_5825MHz

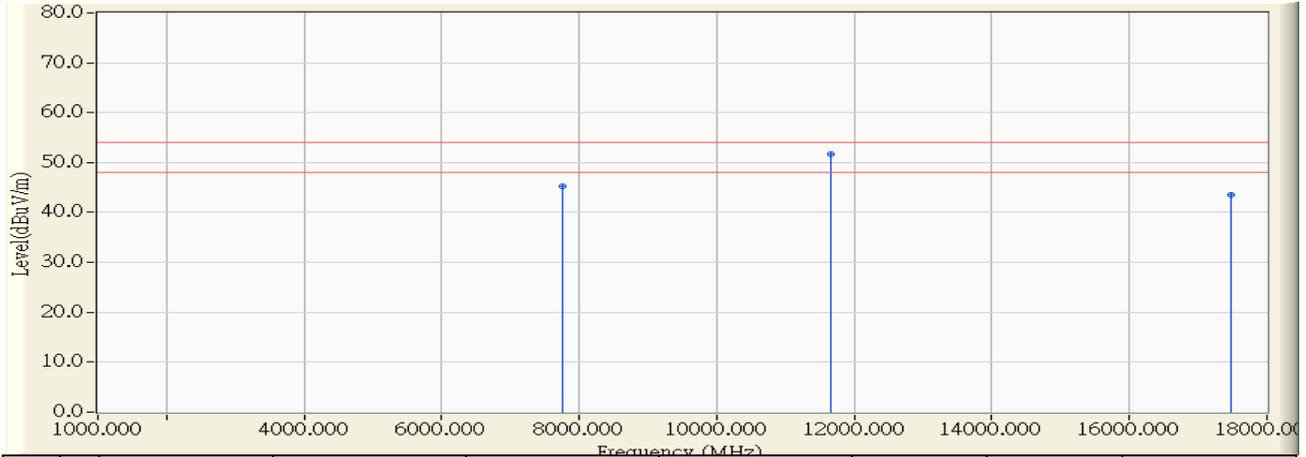


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	7766.400	6.360	47.360	53.720	-20.280	74.000	PEAK
2	* 11651.750	10.504	54.360	64.865	-9.135	74.000	PEAK
3	17469.925	15.488	42.510	57.998	-16.002	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2016/02/02 - 17:48
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11a_5825MHz

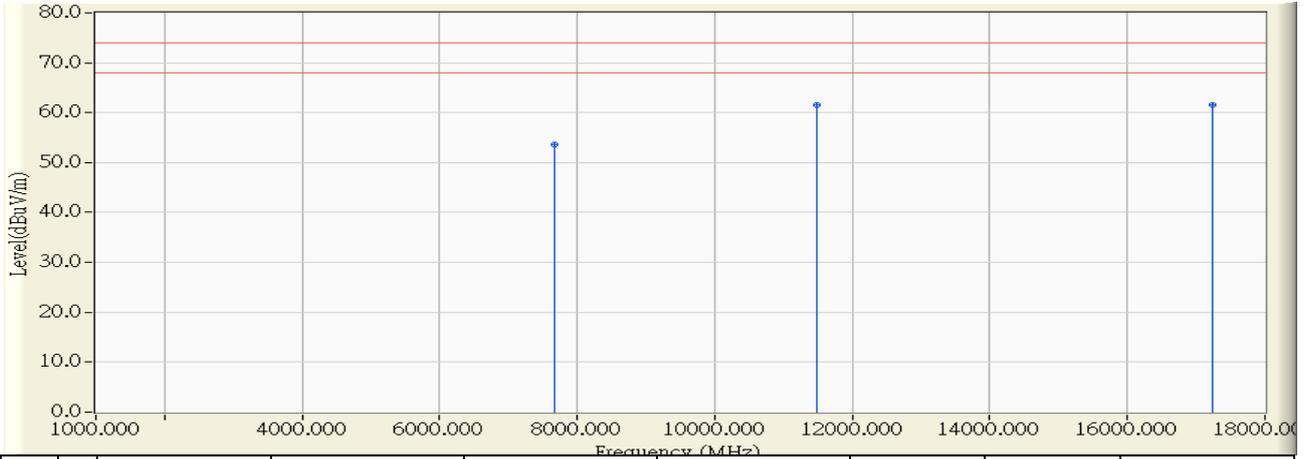


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	7766.700	6.360	38.850	45.210	-8.790	54.000	AVERAGE
2	* 11651.475	10.505	41.240	51.745	-2.255	54.000	AVERAGE
3	17477.200	15.536	28.040	43.576	-10.424	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2016/02/02 - 17:53
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11n(20M)_5745MHz

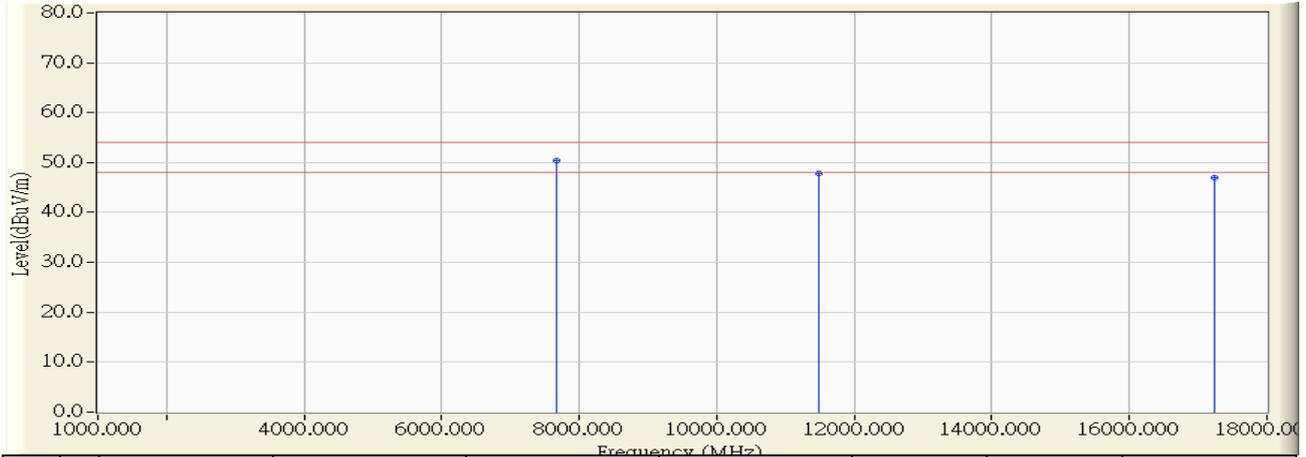


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	7660.050	6.691	46.850	53.542	-20.458	74.000	PEAK
2	* 11492.780	11.036	50.530	61.566	-12.434	74.000	PEAK
3	17237.150	14.371	47.150	61.522	-12.478	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2016/02/02 - 17:59
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11n(20M)_5745MHz

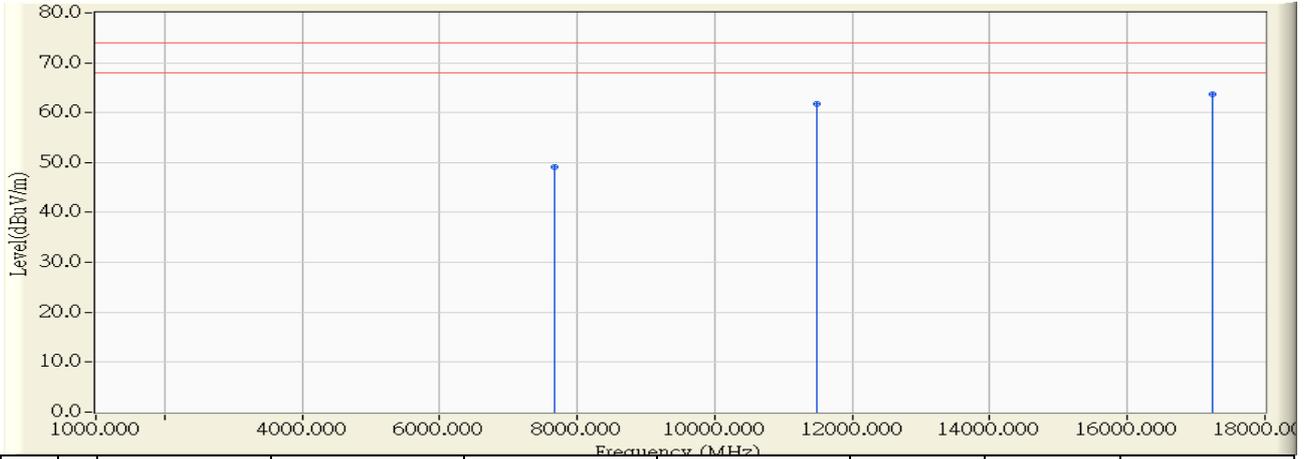


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7660.180	6.692	43.720	50.412	-3.588	54.000	AVERAGE
2		11488.430	11.042	36.870	47.911	-6.089	54.000	AVERAGE
3		17237.875	14.375	32.540	46.915	-7.085	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2016/02/02 - 18:03
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11n(20M)_5745MHz

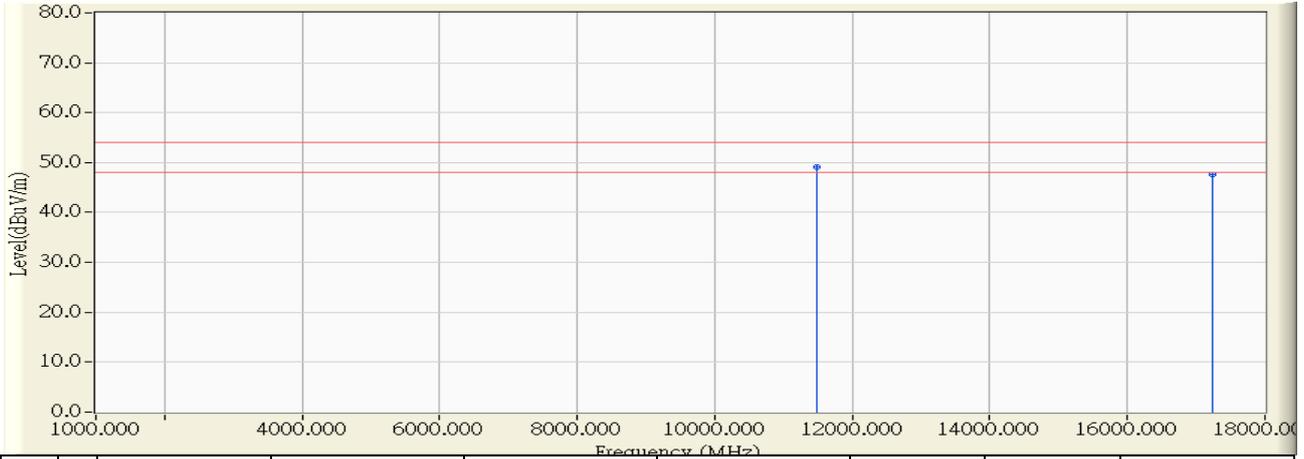


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	7660.100	6.192	42.940	49.132	-24.868	74.000	PEAK
2	11492.675	10.781	50.940	61.721	-12.279	74.000	PEAK
3	* 17238.550	14.378	49.410	63.789	-10.211	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2016/02/02 - 18:10
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11n(20M)_5745MHz

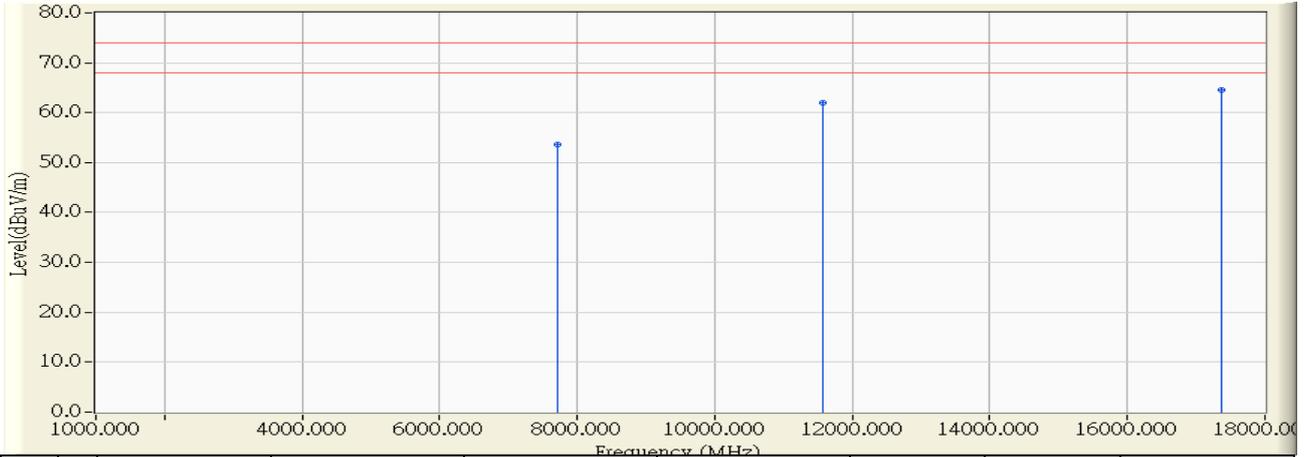


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11491.125	10.784	38.300	49.084	-4.916	54.000	AVERAGE
2		17234.775	14.360	33.260	47.621	-6.379	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2016/02/02 - 18:24
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11n(20M)_5785MHz



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	7713.640	6.777	46.790	53.566	-20.434	74.000	PEAK
2	11567.300	10.944	50.990	61.934	-12.066	74.000	PEAK
3	* 17357.275	14.948	49.670	64.618	-9.382	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 = 3 MHz, 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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2016/02/02 - 18:30
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11n(20M)_5785MHz

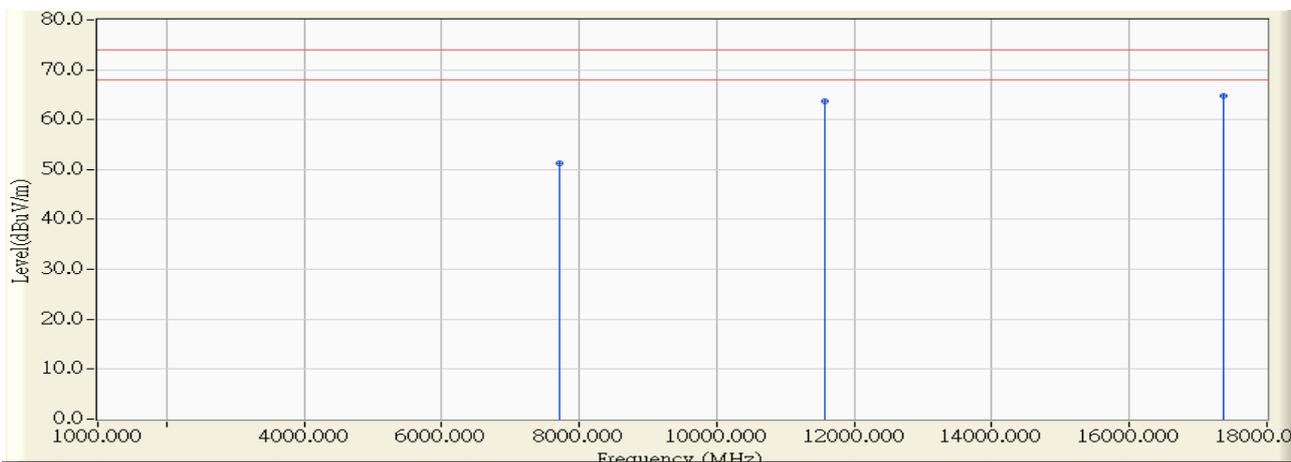


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	7713.580	6.777	41.180	47.956	-6.044	54.000	AVERAGE
2	11568.425	10.942	37.530	48.472	-5.528	54.000	AVERAGE
3	* 17353.780	14.931	34.510	49.441	-4.559	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2016/02/02 - 18:34
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11n(20M)_5785MHz

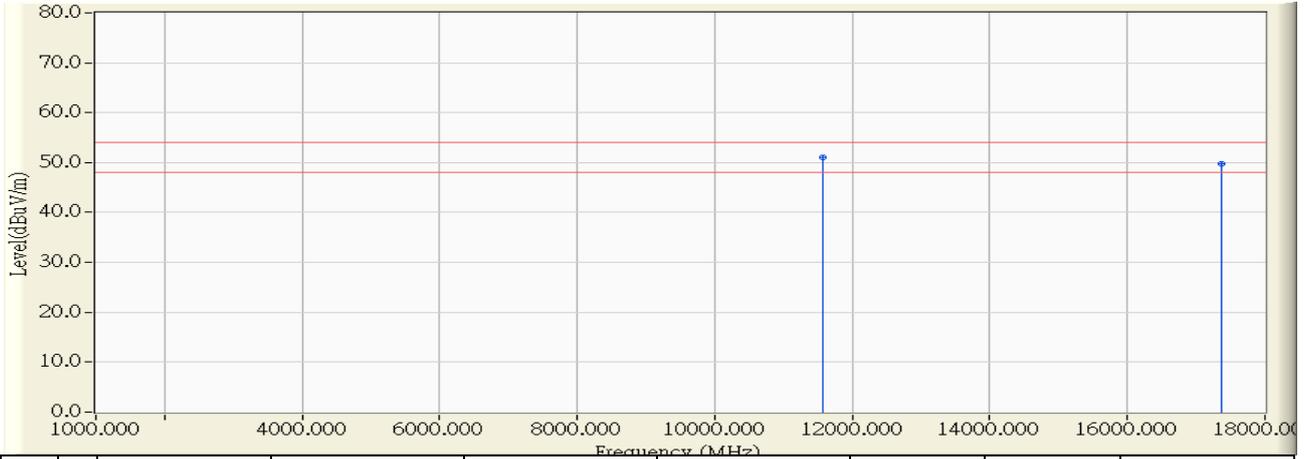


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	7771.680	6.277	44.940	51.217	-22.783	74.000	PEAK
2	11563.875	10.657	53.050	63.707	-10.293	74.000	PEAK
3	* 17358.574	14.954	49.770	64.724	-9.276	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2016/02/02 - 18:37
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11n(20M)_5785MHz

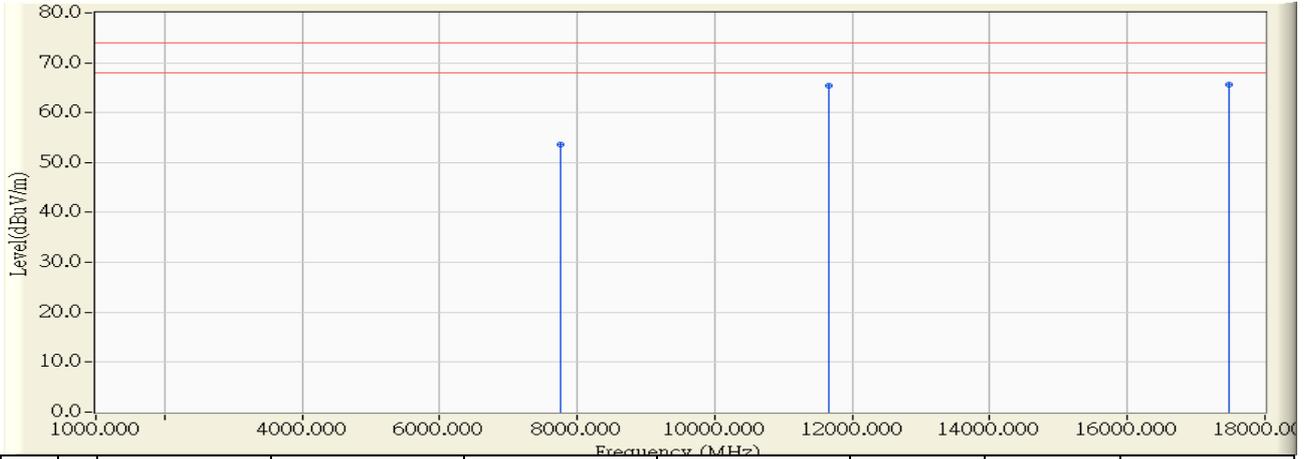


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11568.650	10.650	40.370	51.019	-2.981	54.000	AVERAGE
2		17358.450	14.954	34.740	49.694	-4.306	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2016/02/02 - 18:43
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11n(20M)_5825MHz



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	7766.980	6.861	46.840	53.701	-20.299	74.000	PEAK
2	11652.775	10.837	54.650	65.488	-8.512	74.000	PEAK
3	* 17478.225	15.545	50.100	65.644	-8.356	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 = 3 MHz, 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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2016/02/02 - 18:47
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11n(20M)_5825MHz

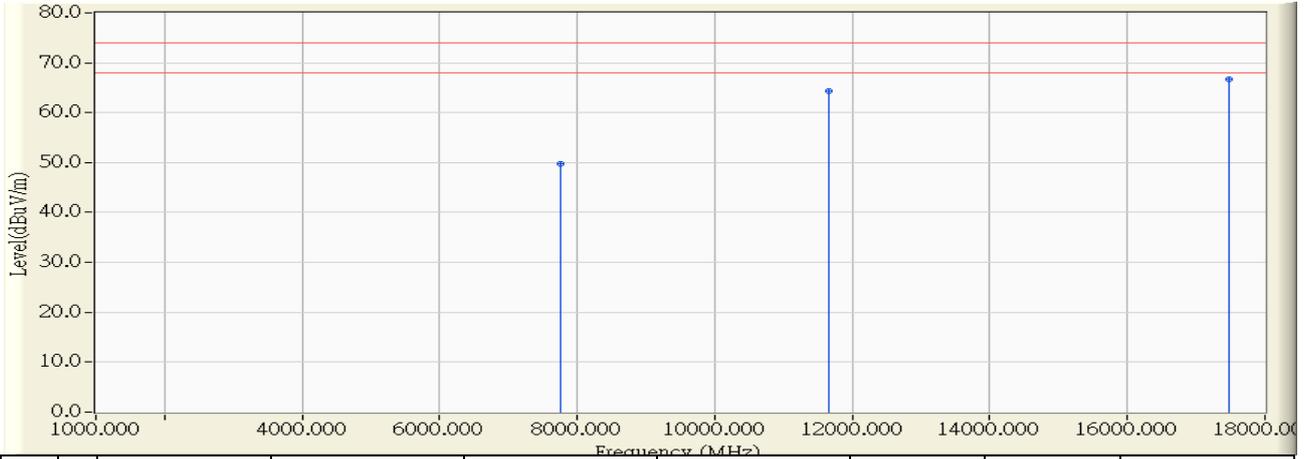


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	7766.920	6.861	42.630	49.491	-4.509	54.000	AVERAGE
2	11650.800	10.840	40.540	51.380	-2.620	54.000	AVERAGE
3	* 17477.825	15.542	35.980	51.521	-2.479	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2016/02/02 - 18:50
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11n(20M)_5825MHz

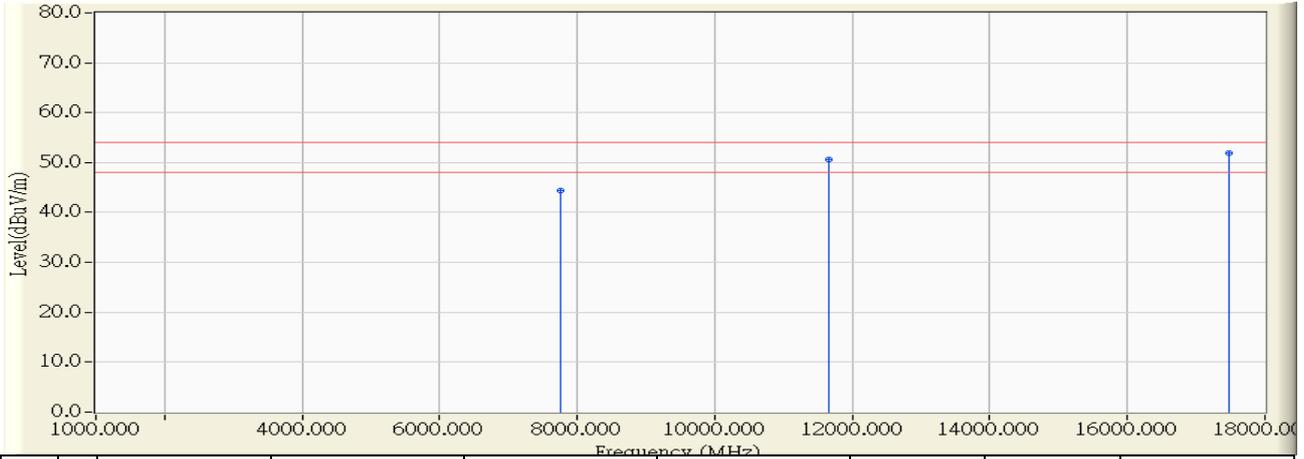


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	7767.120	6.361	43.390	49.751	-24.249	74.000	PEAK
2	11653.350	10.502	53.870	64.372	-9.628	74.000	PEAK
3	* 17471.770	15.497	51.280	66.777	-7.223	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2016/02/02 - 18:56
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11n(20M)_5825MHz

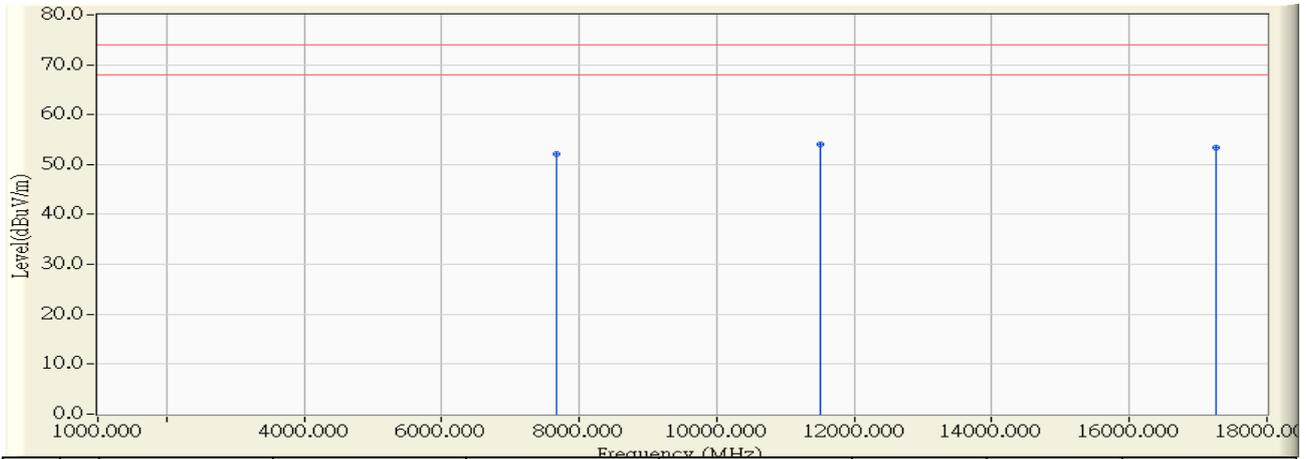


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	7766.980	6.361	38.020	44.381	-9.619	54.000	AVERAGE
2	11651.400	10.505	40.210	50.715	-3.285	54.000	AVERAGE
3	* 17474.225	15.513	36.390	51.903	-2.097	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2016/02/02 - 19:01
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11n(40M)_5755MHz

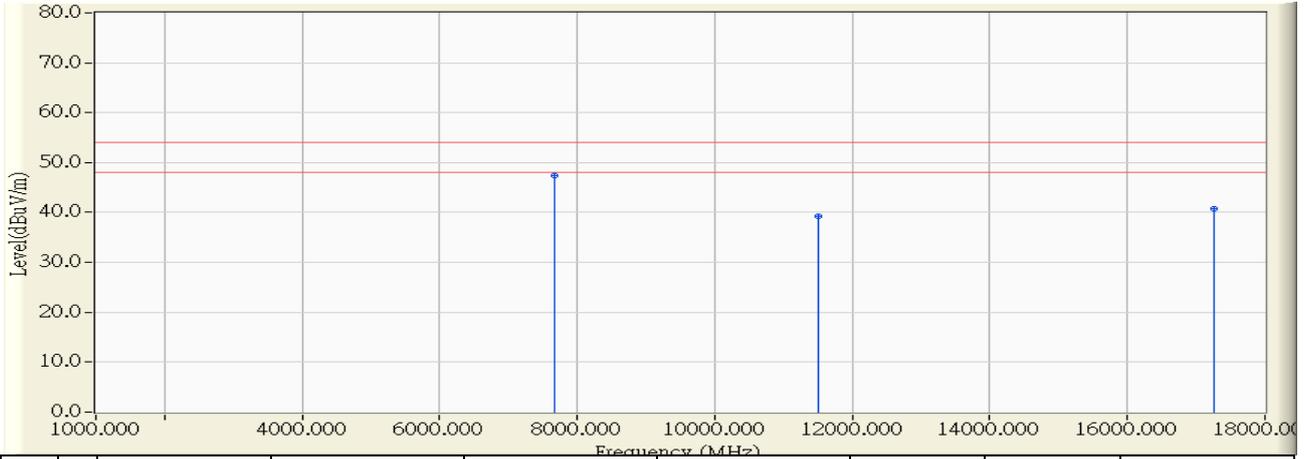


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	7673.400	6.712	45.410	52.123	-21.877	74.000	PEAK
2	* 11500.150	11.027	43.030	54.057	-19.943	74.000	PEAK
3	17264.200	14.502	39.010	53.512	-20.488	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2016/02/02 -19:07
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11n(40M)_5755MHz

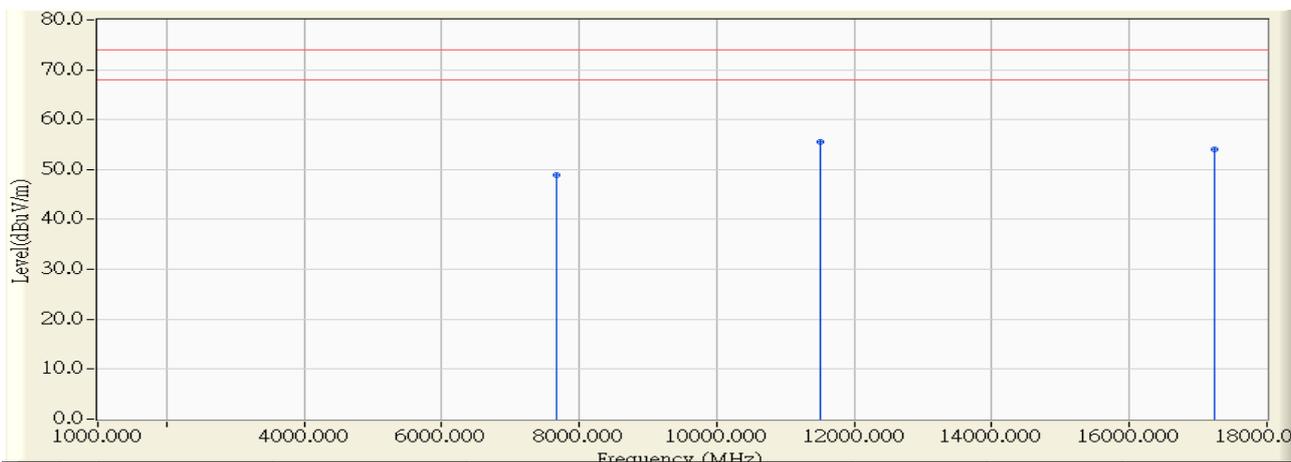


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7673.490	6.713	40.600	47.313	-6.687	54.000	AVERAGE
2		11499.300	11.029	28.120	39.148	-14.852	54.000	AVERAGE
3		17252.150	14.443	26.330	40.774	-13.226	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2016/02/02 - 19:12
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11n(40M)_5755MHz



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	7673.350	6.212	42.790	49.003	-24.997	74.000	PEAK
2	* 11500.000	10.769	44.710	55.478	-18.522	74.000	PEAK
3	17240.500	14.387	39.670	54.058	-19.942	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 = 3 MHz, 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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2016/02/02 - 19:17
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11n(40M)_5755MHz

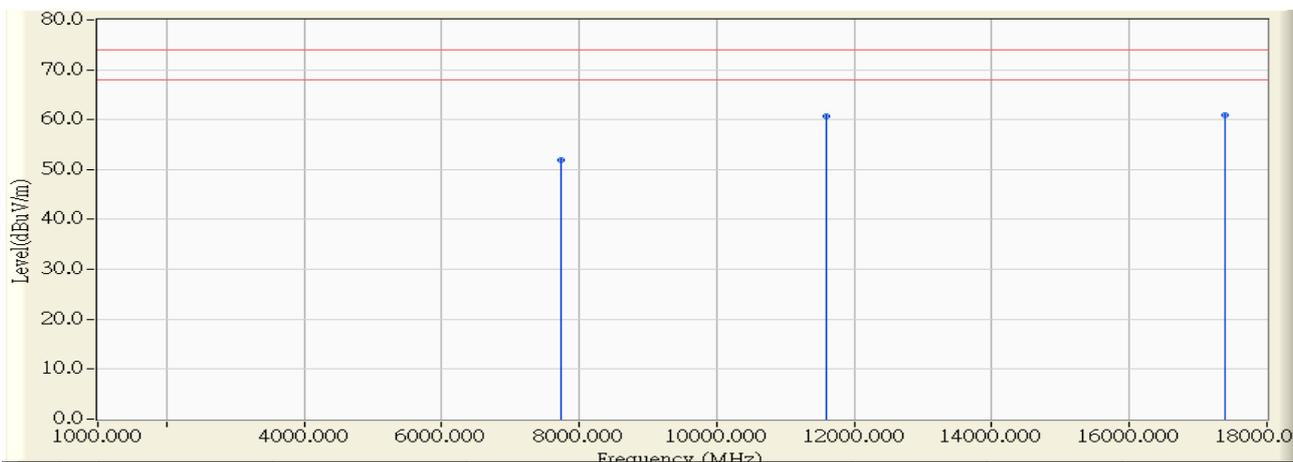


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	11504.650	10.761	29.310	40.070	-13.930	54.000	AVERAGE
2	* 17279.800	14.577	26.680	41.256	-12.744	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2016/02/02 - 19:22
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11n(40M)_5795MHz



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	7726.680	6.797	45.200	51.997	-22.003	74.000	PEAK
2	11591.750	10.913	49.860	60.773	-13.227	74.000	PEAK
3	* 17391.600	15.113	45.870	60.983	-13.017	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 = 3 MHz, 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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2016/02/02 - 19:30
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11n(40M)_5795MHz

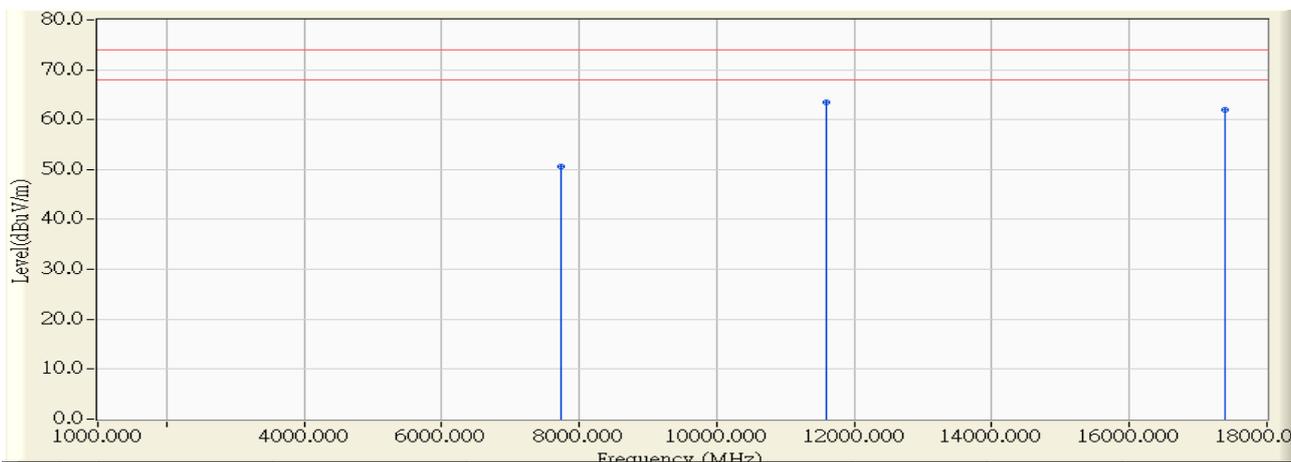


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7726.950	6.798	40.560	47.357	-6.643	54.000	AVERAGE
2		11591.150	10.914	35.470	46.384	-7.616	54.000	AVERAGE
3		17377.950	15.047	31.560	46.607	-7.393	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2016/02/02 - 19:37
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11n(40M)_5795MHz

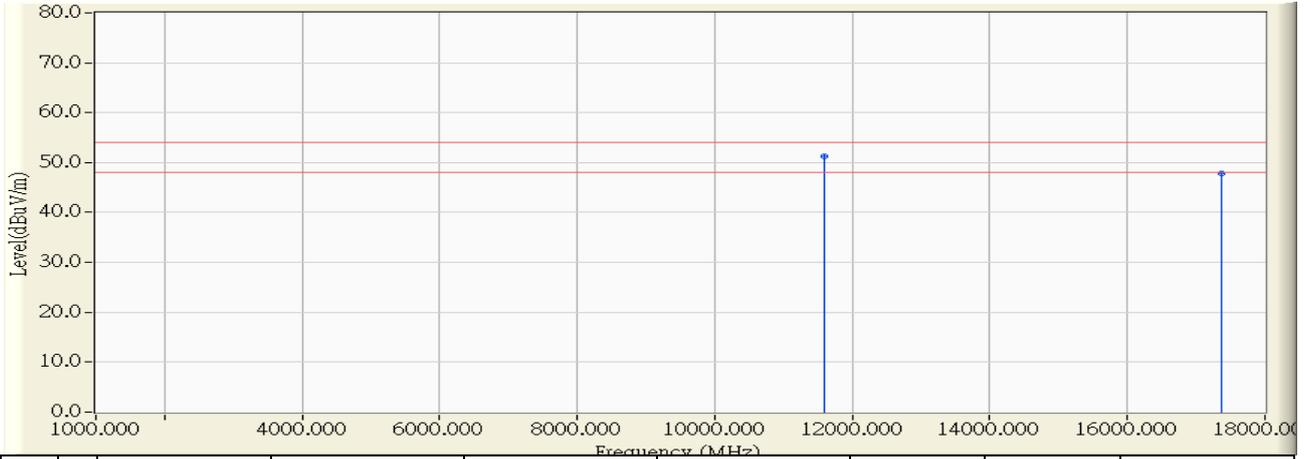


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	7726.940	6.298	44.220	50.517	-23.483	74.000	PEAK
2	* 11595.000	10.604	52.780	63.383	-10.617	74.000	PEAK
3	17391.600	15.113	46.950	62.063	-11.937	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2016/02/02 - 19:43
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11n(40M)_5795MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11585.350	10.620	40.600	51.220	-2.780	54.000	AVERAGE
2		17377.800	15.046	32.810	47.856	-6.144	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 = 3 MHz, 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.
7. The Emission above 18GHz were not included is because their levels are too low.

7. Band Edge

7.1. Test Equipment

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

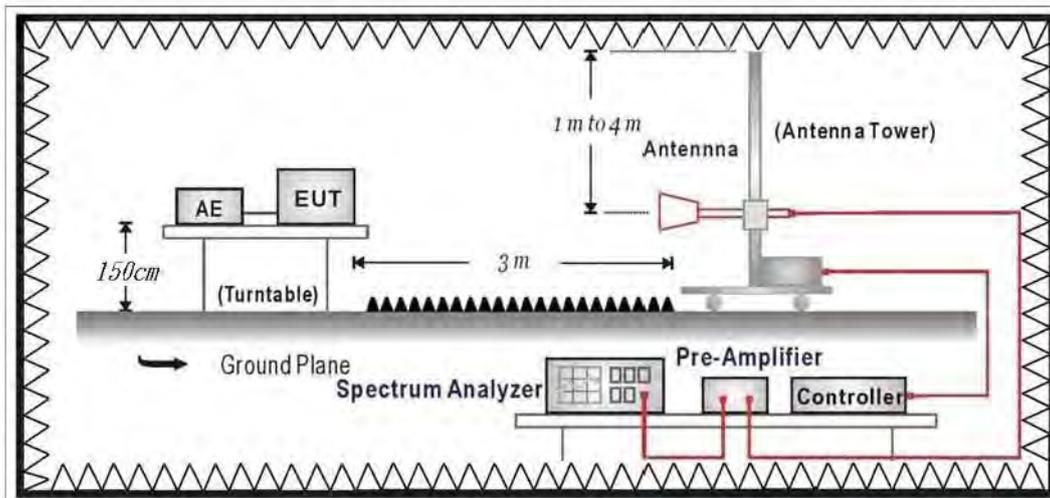
Band Edge / CB1

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Double Ridged Guide Horn Antenna	Schwarzbeck	BBHA 9120	D743	2017/01/14
Spectrum Analyzer	Agilent	E4440A	MY46187335	2016/12/24
k Type Cable	Huber+Suhner	SF 102	25623/2	2017/01/11

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

7.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 1.5 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.

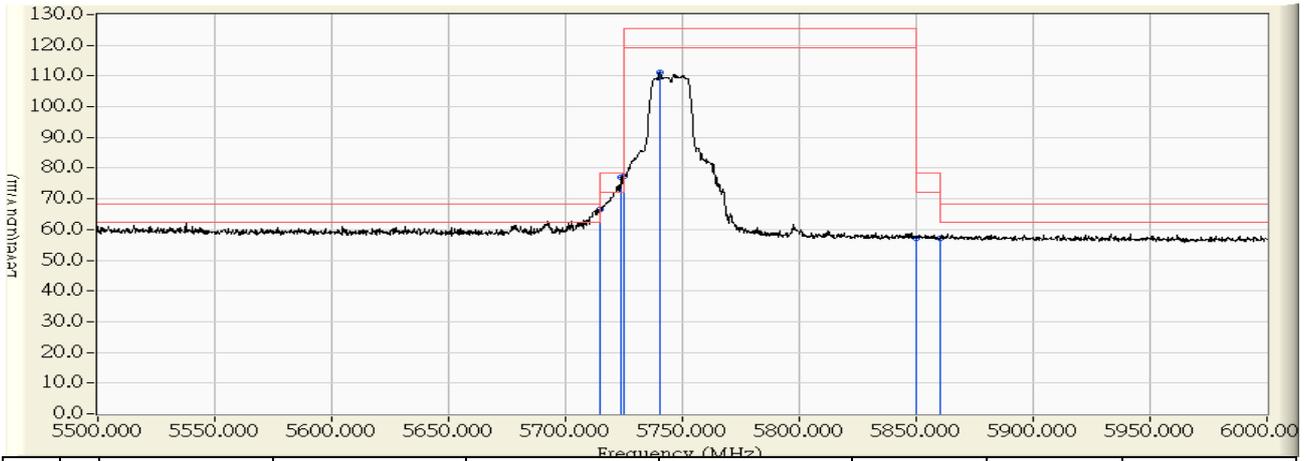
7.5. Uncertainty

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

7.6. Test Result

Radiated is defined as

Site : CB1	Time : 2016/02/02 - 10:37
Limit : FCC_SPARTE_15.407_H_Band4_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-Band Wireless N-600 Range Extender	Note : Mode 1: Transmit_802.11a_5745MHz

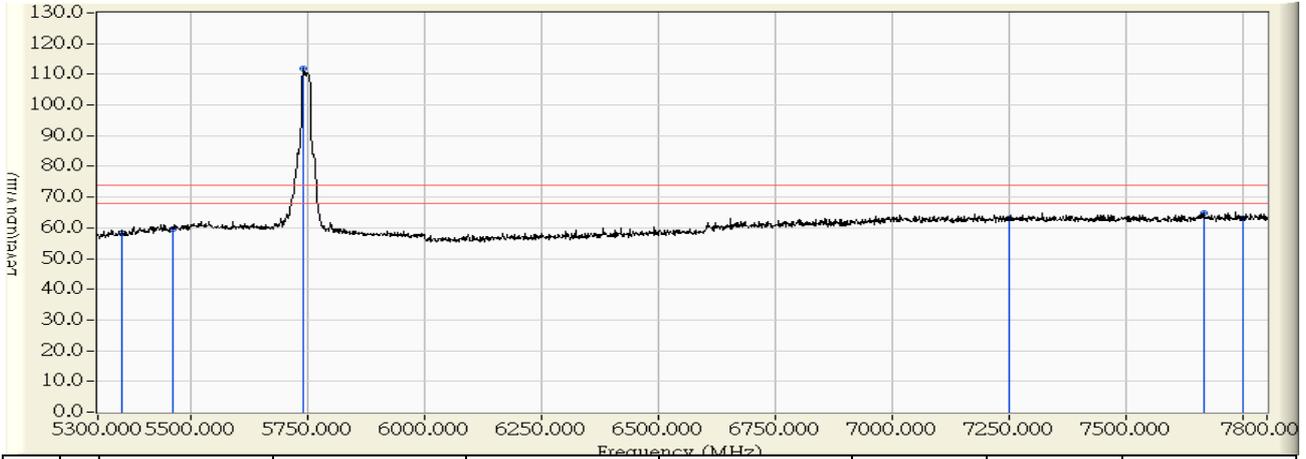


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	5715.000	1.487	65.013	66.500	-1.800	68.300	PEAK
2	5724.000	1.466	75.404	76.870	-1.430	78.300	PEAK
3	* 5725.000	1.463	75.793	77.256	-1.044	78.300	PEAK
4	5740.250	1.426	109.763	111.190	-14.110	125.300	PEAK
5	5850.000	1.163	56.159	57.322	-20.978	78.300	PEAK
6	5860.000	1.139	55.991	57.130	-11.170	68.300	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 : 2016/02/02 - 10:37
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11a_5745MHz

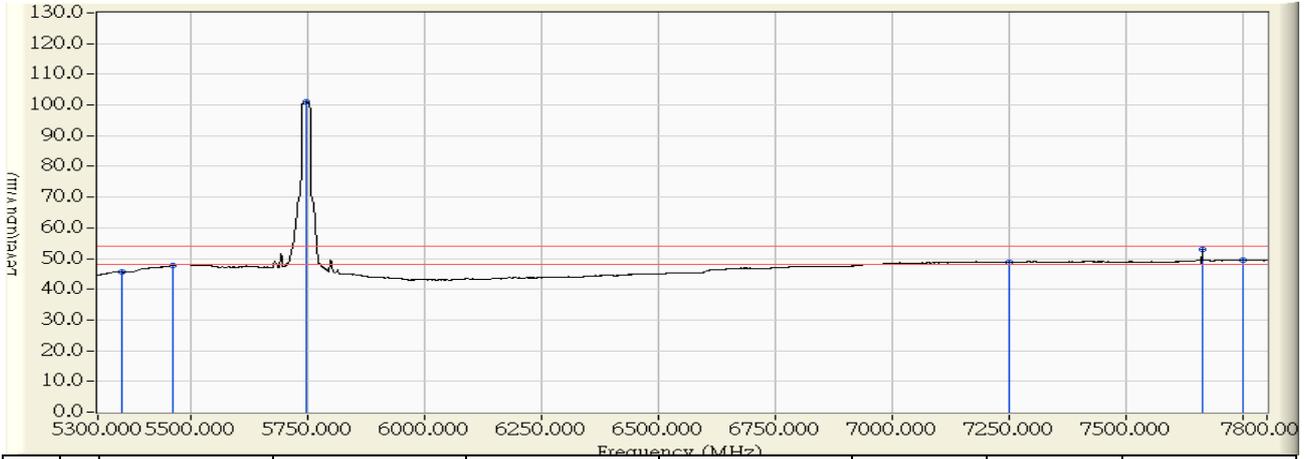


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	5350.000	0.934	57.303	58.237	-15.763	74.000	PEAK
2	5460.000	1.853	57.665	59.518	-14.482	74.000	PEAK
3	* 5740.000	1.427	110.313	111.740	37.740	74.000	PEAK
4	7250.000	5.954	57.101	63.054	-10.946	74.000	PEAK
5	7665.000	6.699	58.064	64.764	-9.236	74.000	PEAK
6	7750.000	6.833	56.219	63.053	-10.947	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 : 2016/02/02 - 10:39
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11a_5745MHz

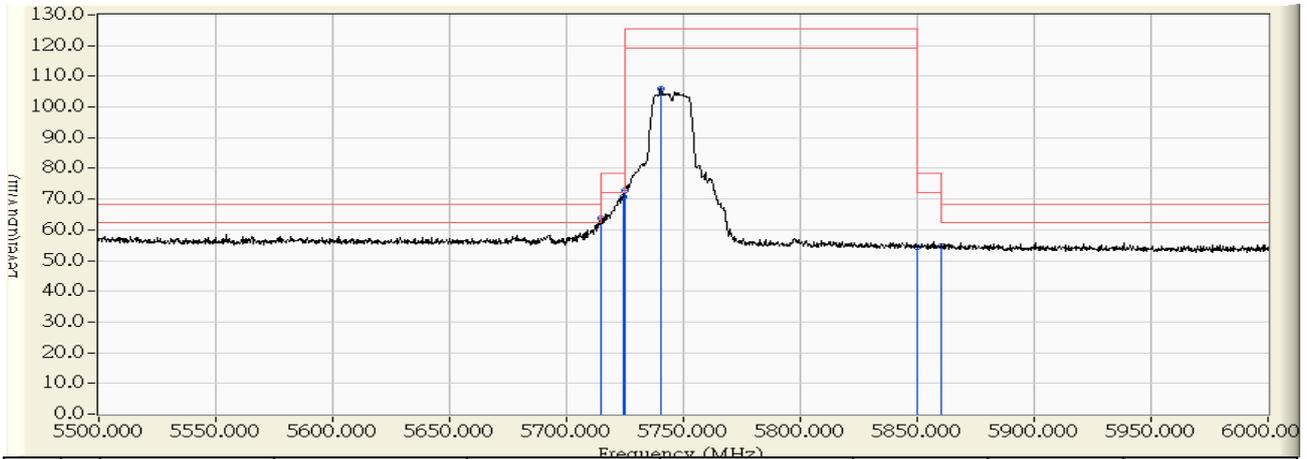


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	5350.000	0.934	44.591	45.525	-8.475	54.000	AVERAGE
2	5460.000	1.853	45.767	47.620	-6.380	54.000	AVERAGE
3	* 5746.250	1.412	99.715	101.127	47.127	54.000	AVERAGE
4	7250.000	5.954	42.697	48.650	-5.350	54.000	AVERAGE
5	7661.250	6.694	46.248	52.942	-1.058	54.000	AVERAGE
6	7750.000	6.833	42.600	49.434	-4.566	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 : 2016/02/02 - 10:52
Limit : FCC_SPARTE_15.407_H_Band4_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-Band Wireless N-600 Range Extender	Note : Mode 1: Transmit_802.11a_5745MHz

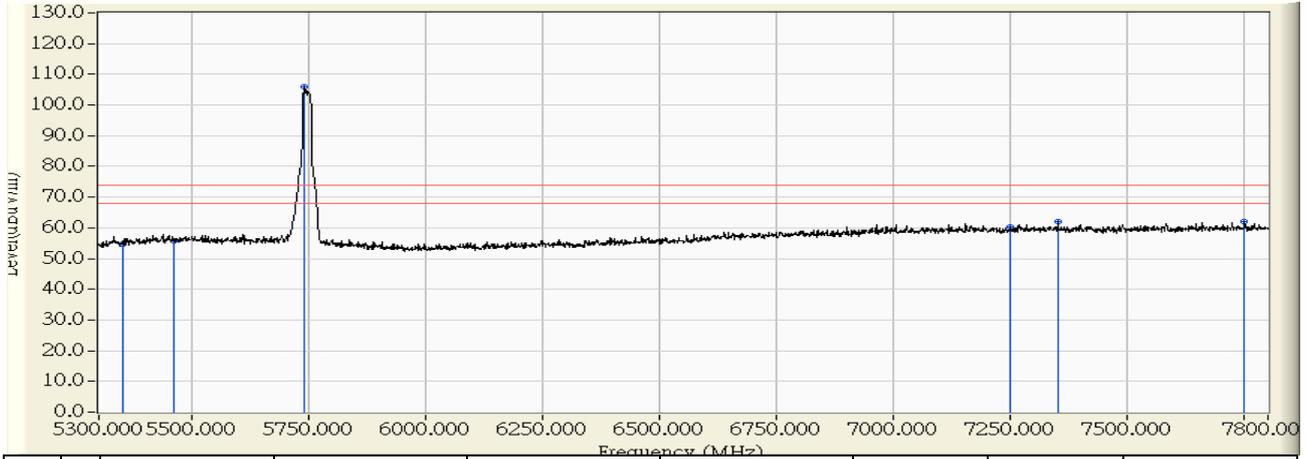


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	5715.000	1.621	62.277	63.898	-4.402	68.300	PEAK
2		5724.250	1.595	69.131	70.725	-7.575	78.300	PEAK
3		5725.000	1.592	71.237	72.829	-5.471	78.300	PEAK
4		5740.250	1.548	104.372	105.920	-19.380	125.300	PEAK
5		5850.000	1.229	53.085	54.314	-23.986	78.300	PEAK
6		5860.000	1.201	53.467	54.667	-13.633	68.300	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 : 2016/02/02 - 10:53
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11a_5745MHz

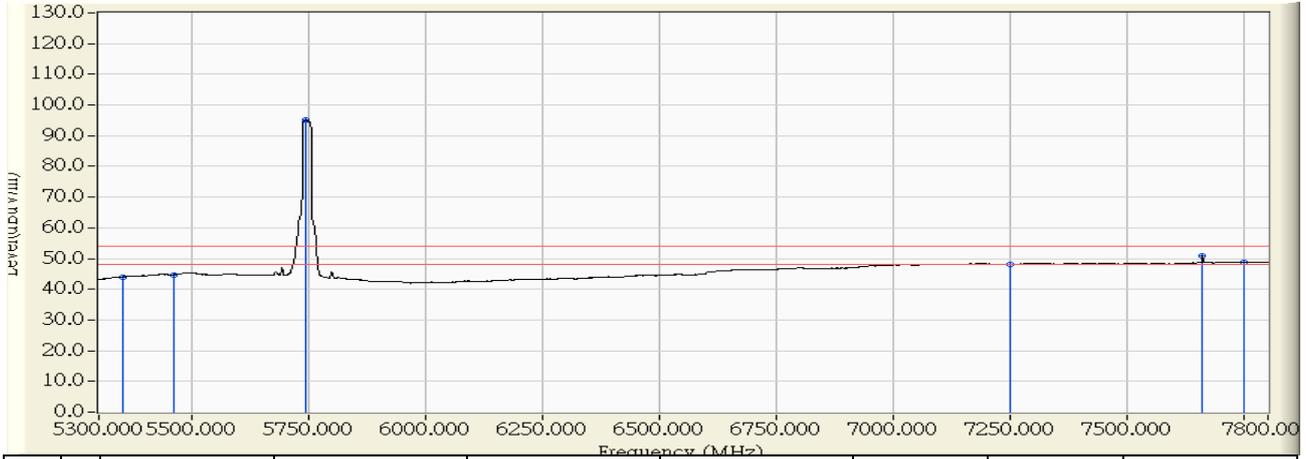


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	5350.000	1.250	53.525	54.775	-19.225	74.000	PEAK
2	5460.000	2.114	53.676	55.790	-18.210	74.000	PEAK
3	* 5740.000	1.549	104.297	105.846	31.846	74.000	PEAK
4	7250.000	5.454	54.747	60.200	-13.800	74.000	PEAK
5	7350.000	5.651	56.458	62.108	-11.892	74.000	PEAK
6	7750.000	6.333	55.565	61.899	-12.101	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 : 2016/02/02 - 10:54
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11a_5745MHz

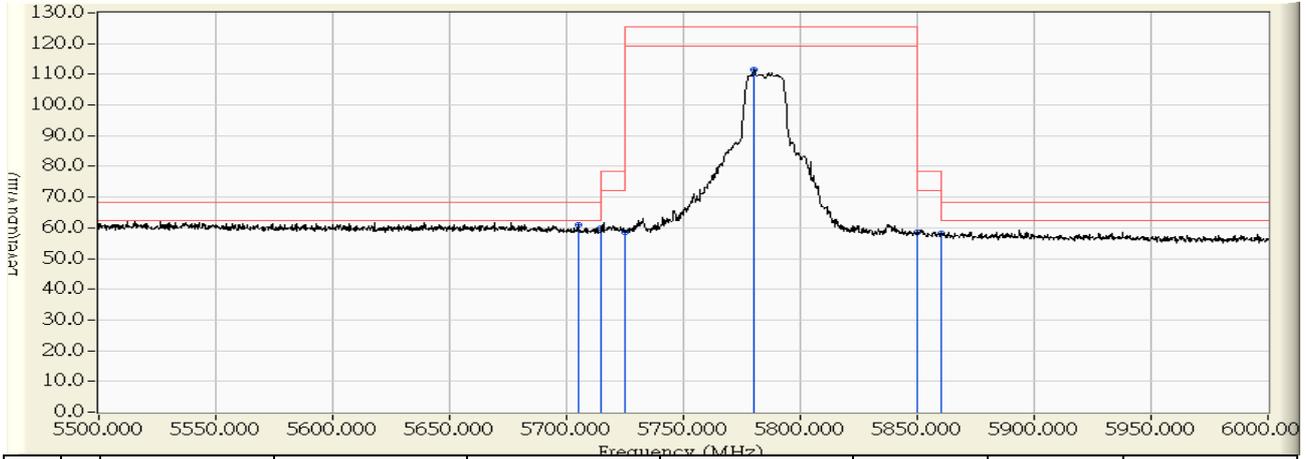


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	5350.000	1.250	42.750	44.000	-10.000	54.000	AVERAGE
2	5460.000	2.114	42.642	44.756	-9.244	54.000	AVERAGE
3	* 5742.500	1.542	93.606	95.147	41.147	54.000	AVERAGE
4	7250.000	5.454	42.624	48.077	-5.923	54.000	AVERAGE
5	7660.000	6.191	44.620	50.812	-3.188	54.000	AVERAGE
6	7750.000	6.333	42.468	48.802	-5.198	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 : 2016/02/02 - 11:00
Limit : FCC_SPARTE_15.407_H_Band4_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-Band Wireless N-600 Range Extender	Note : Mode 1: Transmit_802.11a_5785MHz

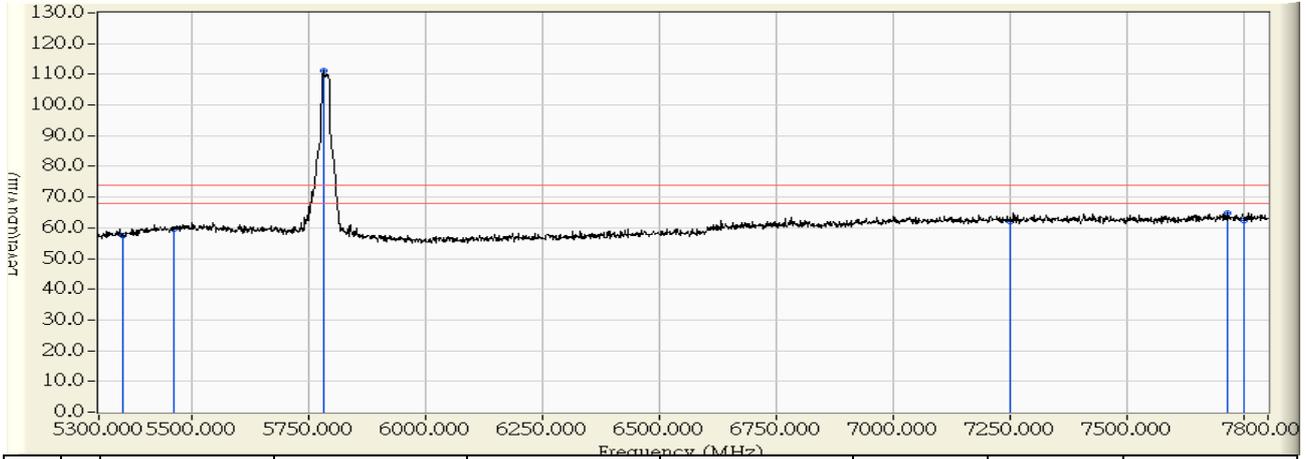


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	5705.000	1.511	59.451	60.962	-7.338	68.300	PEAK
2		5715.000	1.487	58.495	59.982	-8.318	68.300	PEAK
3		5725.000	1.463	57.099	58.562	-19.738	78.300	PEAK
4		5780.250	1.330	110.122	111.452	-13.848	125.300	PEAK
5		5850.000	1.163	57.320	58.483	-19.817	78.300	PEAK
6		5860.000	1.139	57.225	58.364	-9.936	68.300	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 : 2016/02/02 - 11:03
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11a_5785MHz

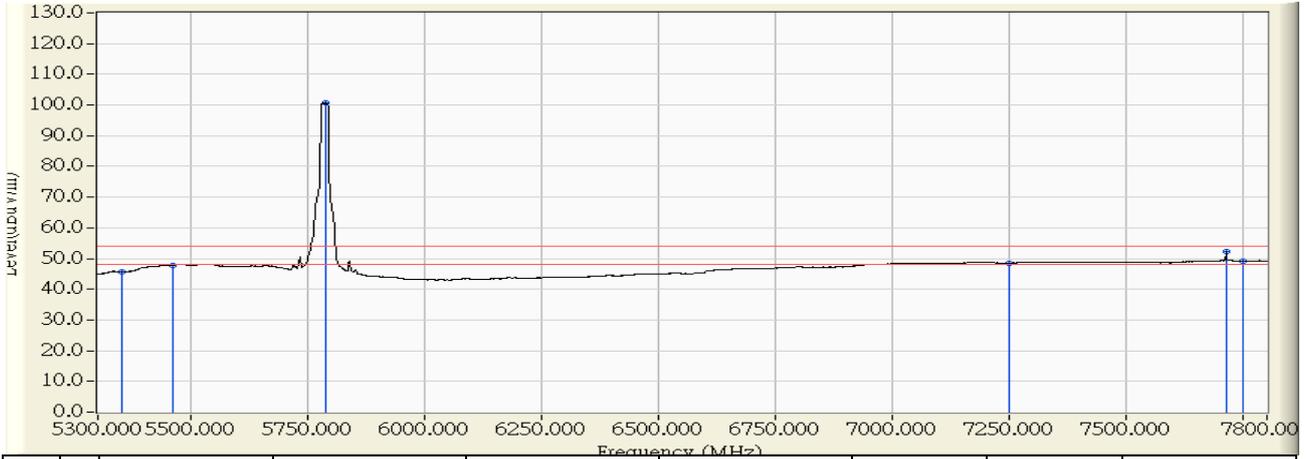


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	5350.000	0.934	56.583	57.517	-16.483	74.000	PEAK
2	5460.000	1.853	57.825	59.678	-14.322	74.000	PEAK
3	* 5780.000	1.331	109.823	111.154	37.154	74.000	PEAK
4	7250.000	5.954	56.166	62.119	-11.881	74.000	PEAK
5	7712.500	6.774	58.082	64.857	-9.143	74.000	PEAK
6	7750.000	6.833	55.706	62.540	-11.460	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 : 2016/02/02 - 11:20
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11a_5785MHz

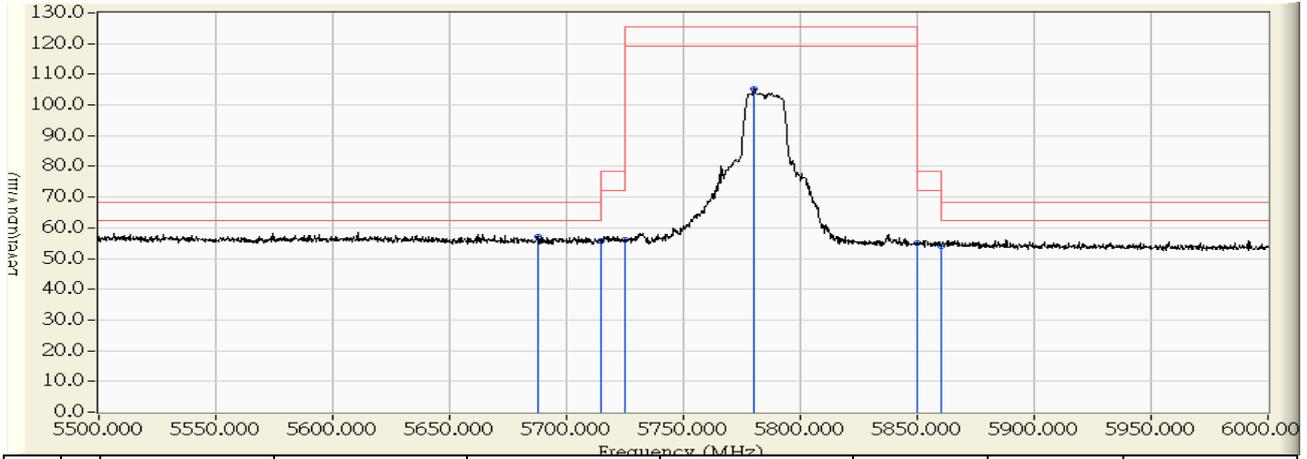


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	5350.000	0.934	44.654	45.588	-8.412	54.000	AVERAGE
2	5460.000	1.853	45.958	47.811	-6.189	54.000	AVERAGE
3	* 5786.250	1.316	99.413	100.729	46.729	54.000	AVERAGE
4	7250.000	5.954	42.572	48.525	-5.475	54.000	AVERAGE
5	7713.750	6.777	45.563	52.340	-1.660	54.000	AVERAGE
6	7750.000	6.833	42.341	49.175	-4.825	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 : 2016/02/02 - 11:25
Limit : FCC_SPARTE_15.407_H_Band4_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-Band Wireless N-600 Range Extender	Note : Mode 1: Transmit_802.11a_5785MHz

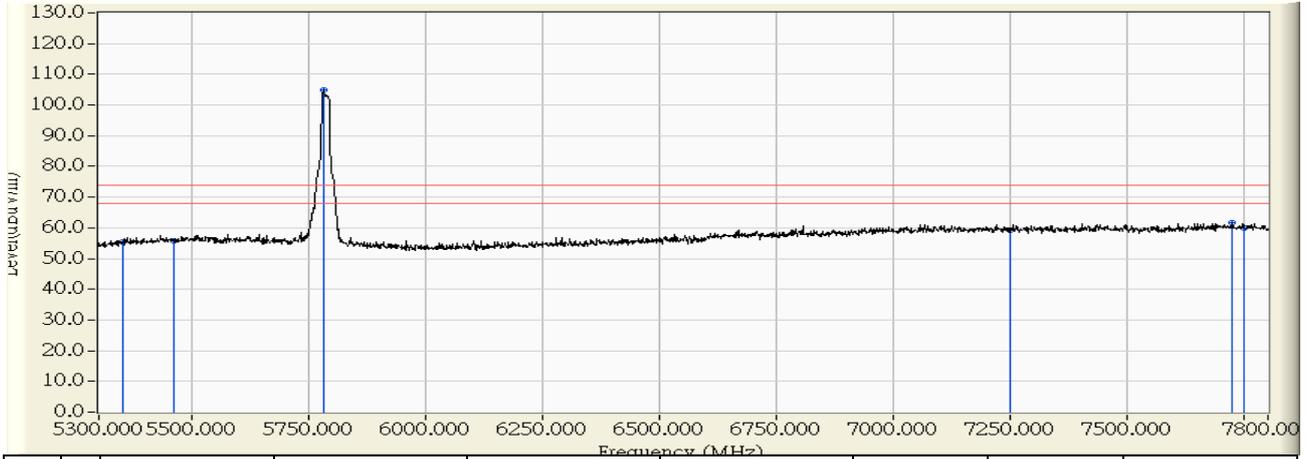


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	5688.000	1.699	55.505	57.205	-11.095	68.300	PEAK
2		5715.000	1.621	54.102	55.723	-12.577	68.300	PEAK
3		5725.000	1.592	54.603	56.195	-22.105	78.300	PEAK
4		5780.250	1.432	103.945	105.377	-19.923	125.300	PEAK
5		5850.000	1.229	53.945	55.174	-23.126	78.300	PEAK
6		5860.000	1.201	52.875	54.075	-14.225	68.300	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 : 2016/02/02 - 11:26
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11a_5785MHz

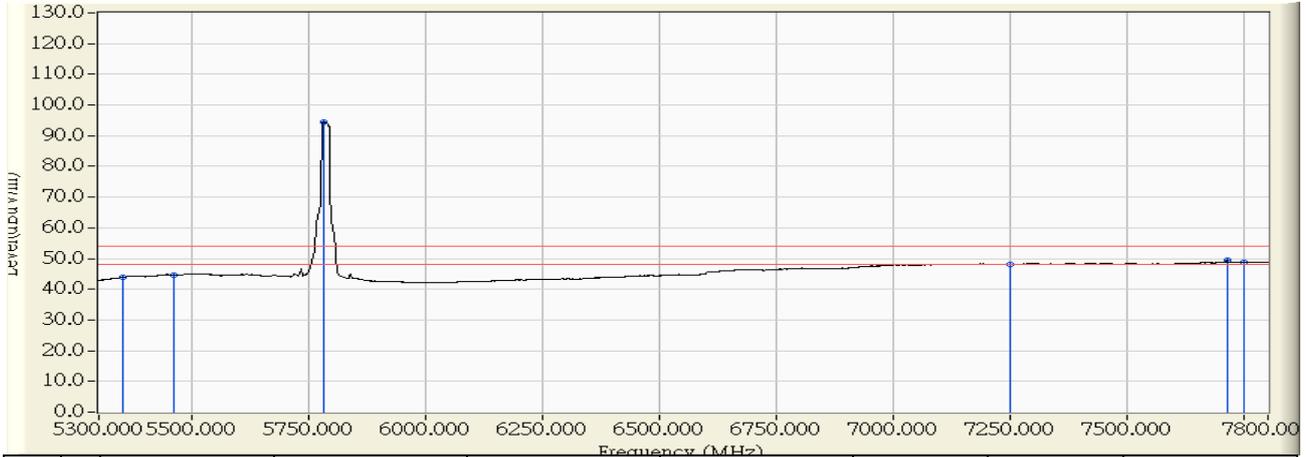


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	5350.000	1.250	54.129	55.379	-18.621	74.000	PEAK
2	5460.000	2.114	53.639	55.753	-18.247	74.000	PEAK
3	* 5780.000	1.433	103.613	105.046	31.046	74.000	PEAK
4	7250.000	5.454	53.935	59.388	-14.612	74.000	PEAK
5	7723.750	6.292	55.320	61.612	-12.388	74.000	PEAK
6	7750.000	6.333	53.603	59.937	-14.063	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 : 2016/02/02 - 11:28
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11a_5785MHz

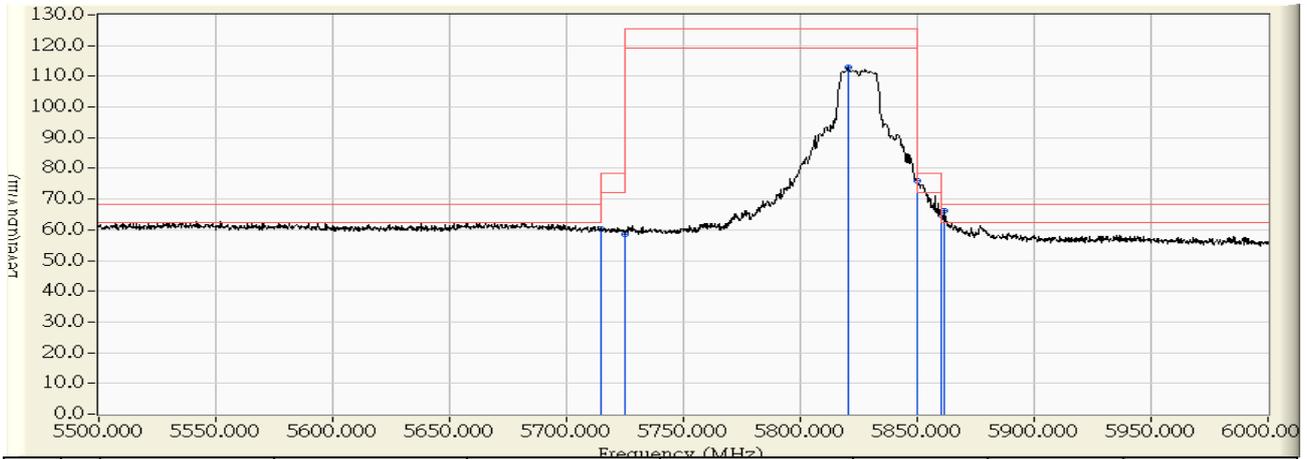


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	5350.000	1.250	42.680	43.930	-10.070	54.000	AVERAGE
2	5460.000	2.114	42.573	44.687	-9.313	54.000	AVERAGE
3	* 5781.250	1.429	93.073	94.502	40.502	54.000	AVERAGE
4	7250.000	5.454	42.533	47.986	-6.014	54.000	AVERAGE
5	7713.750	6.277	43.386	49.663	-4.337	54.000	AVERAGE
6	7750.000	6.333	42.375	48.709	-5.291	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 : 2016/02/02 - 11:35
Limit : FCC_SPARTE_15.407_H_Band4_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-Band Wireless N-600 Range Extender	Note : Mode 1: Transmit_802.11a_5825MHz

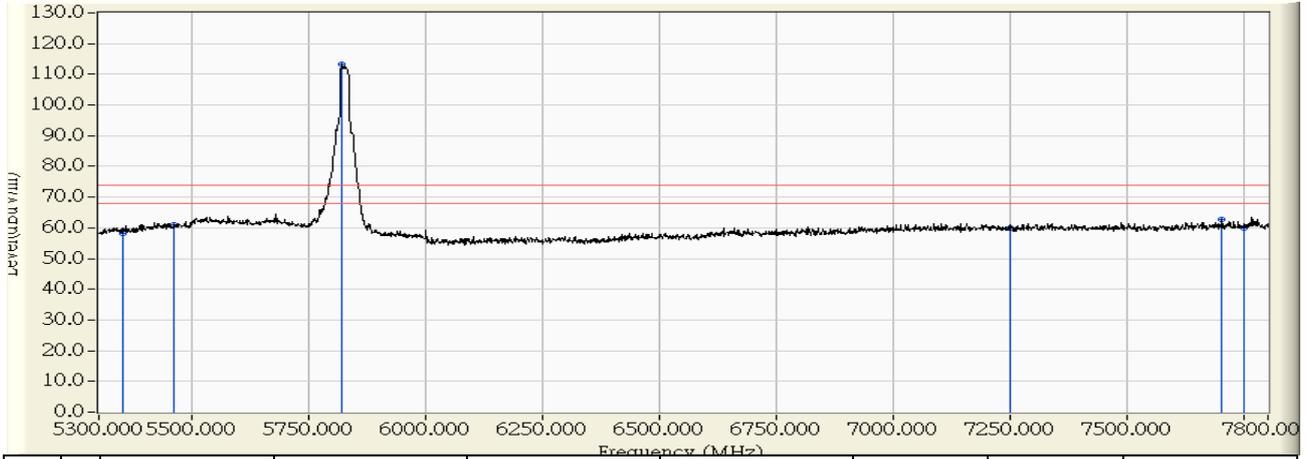


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	5715.000	1.487	58.665	60.152	-8.148	68.300	PEAK
2	5725.000	1.463	57.246	58.709	-19.591	78.300	PEAK
3	5820.250	1.234	111.747	112.981	-12.319	125.300	PEAK
4	5850.000	1.163	74.709	75.872	-2.428	78.300	PEAK
5	5860.000	1.139	63.676	64.815	-3.485	68.300	PEAK
6	* 5861.750	1.135	65.234	66.369	-1.931	68.300	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 : 2016/02/02 - 11:36
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11a_5825MHz

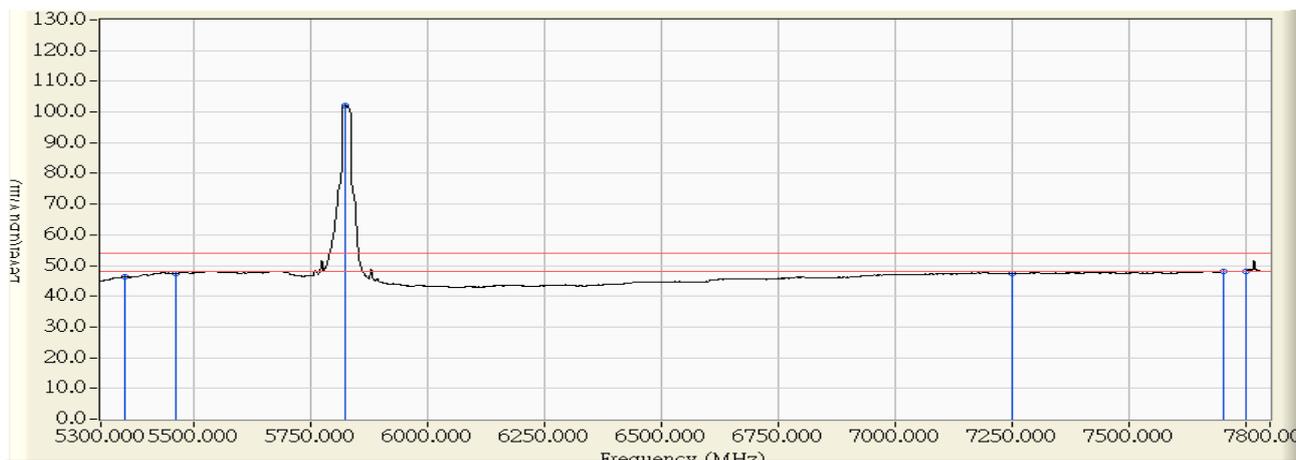


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	5350.000	0.934	57.280	58.214	-15.786	74.000	PEAK
2	5460.000	1.853	59.022	60.875	-13.125	74.000	PEAK
3	* 5820.000	1.235	112.001	113.236	39.236	74.000	PEAK
4	7250.000	5.954	53.858	59.811	-14.189	74.000	PEAK
5	7701.250	6.757	56.150	62.907	-11.093	74.000	PEAK
6	7750.000	6.833	53.156	59.990	-14.010	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 : 2016/02/02 - 13:04
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11a_5825MHz

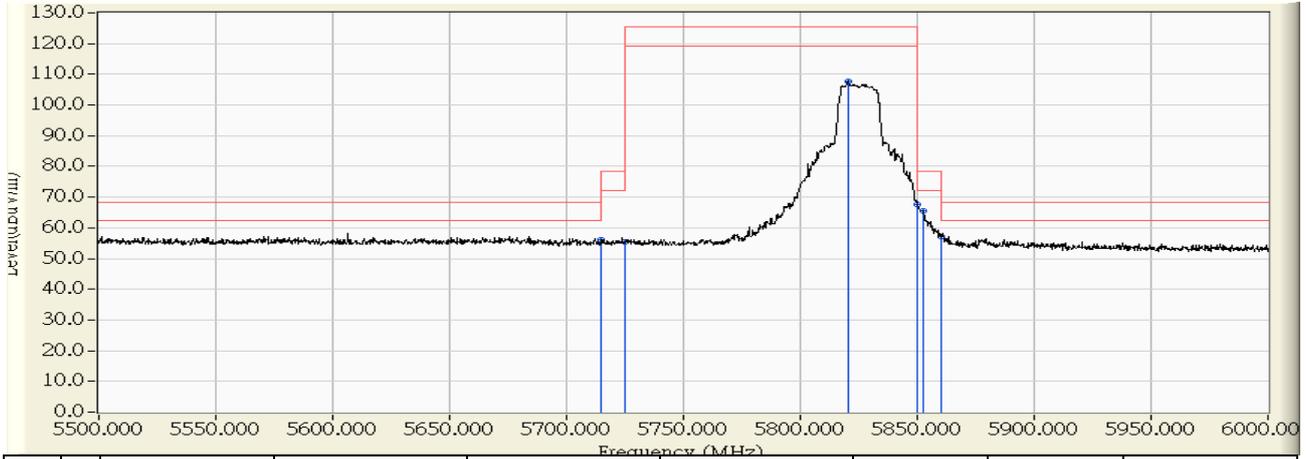


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	5350.000	0.934	45.334	46.268	-7.732	54.000	AVERAGE
2	5460.000	1.853	45.467	47.320	-6.680	54.000	AVERAGE
3	* 5822.500	1.229	101.023	102.252	48.252	54.000	AVERAGE
4	7250.000	5.954	41.311	47.264	-6.736	54.000	AVERAGE
5	7700.000	6.754	41.247	48.002	-5.998	54.000	AVERAGE
6	7750.000	6.833	41.185	48.019	-5.981	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 : 2016/02/02 - 13:15
Limit : FCC_SPARTE_15.407_H_Band4_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-Band Wireless N-600 Range Extender	Note : Mode 1: Transmit_802.11a_5825MHz

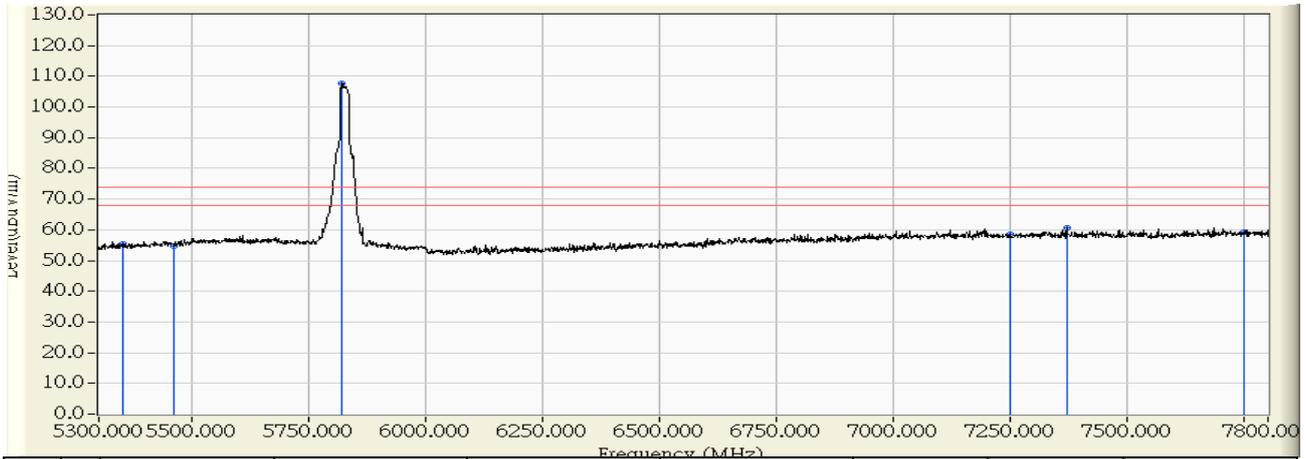


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	5715.000	1.621	54.493	56.114	-12.186	68.300	PEAK
2	5725.000	1.592	53.655	55.247	-23.053	78.300	PEAK
3	5820.500	1.315	106.383	107.698	-17.602	125.300	PEAK
4	* 5850.000	1.229	66.275	67.504	-10.796	78.300	PEAK
5	5852.250	1.223	64.168	65.391	-12.909	78.300	PEAK
6	5860.000	1.201	55.808	57.008	-11.292	68.300	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 : 2016/02/02 - 13:23
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11a_5825MHz

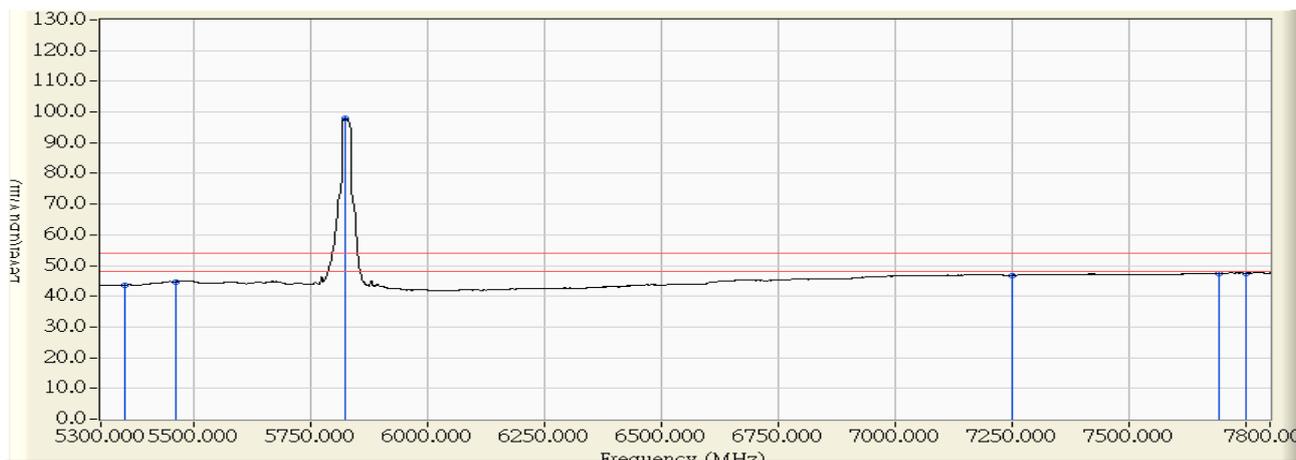


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	5350.000	1.250	54.044	55.294	-18.706	74.000	PEAK
2	5460.000	2.114	52.637	54.751	-19.249	74.000	PEAK
3	* 5820.000	1.316	106.383	107.699	33.699	74.000	PEAK
4	7250.000	5.454	53.094	58.547	-15.453	74.000	PEAK
5	7370.000	5.690	54.833	60.523	-13.477	74.000	PEAK
6	7750.000	6.333	52.815	59.149	-14.851	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 : 2016/02/02 - 13:30
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11a_5825MHz

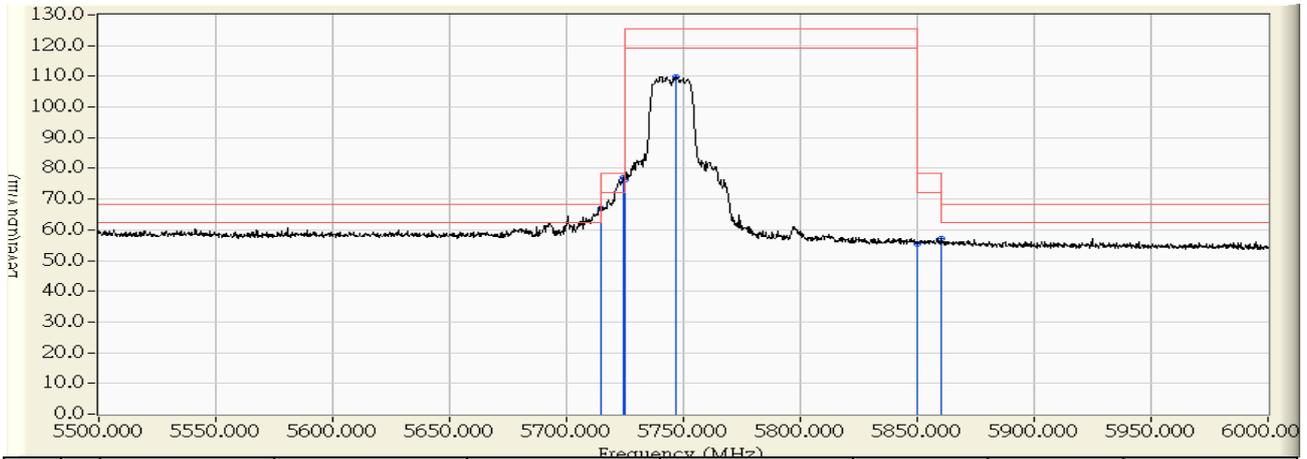


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	5350.000	1.250	42.465	43.715	-10.285	54.000	AVERAGE
2	5460.000	2.114	42.614	44.728	-9.272	54.000	AVERAGE
3	* 5822.500	1.309	96.484	97.793	43.793	54.000	AVERAGE
4	7250.000	5.454	41.334	46.787	-7.213	54.000	AVERAGE
5	7690.000	6.239	41.259	47.498	-6.502	54.000	AVERAGE
6	7750.000	6.333	41.209	47.543	-6.457	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 : 2016/02/02 - 13:42
Limit : FCC_SPARTE_15.407_H_Band4_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-Band Wireless N-600 Range Extender	Note : Mode 1: Transmit_802.11n(20M)_5745MHz

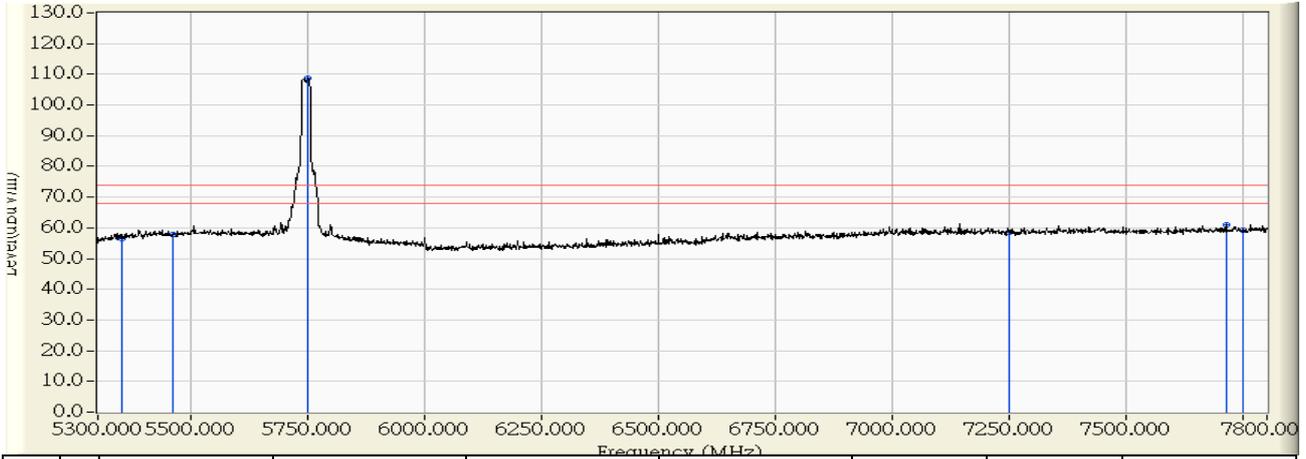


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	5715.000	1.487	65.431	66.918	-1.382	68.300	PEAK
2	* 5724.500	1.464	75.598	77.062	-1.238	78.300	PEAK
3	5725.000	1.463	74.888	76.351	-1.949	78.300	PEAK
4	5747.000	1.410	108.549	109.959	-15.341	125.300	PEAK
5	5850.000	1.163	54.095	55.258	-23.042	78.300	PEAK
6	5860.000	1.139	56.069	57.208	-11.092	68.300	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 : 2016/02/02 - 13:47
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11n(20M)_5745MHz

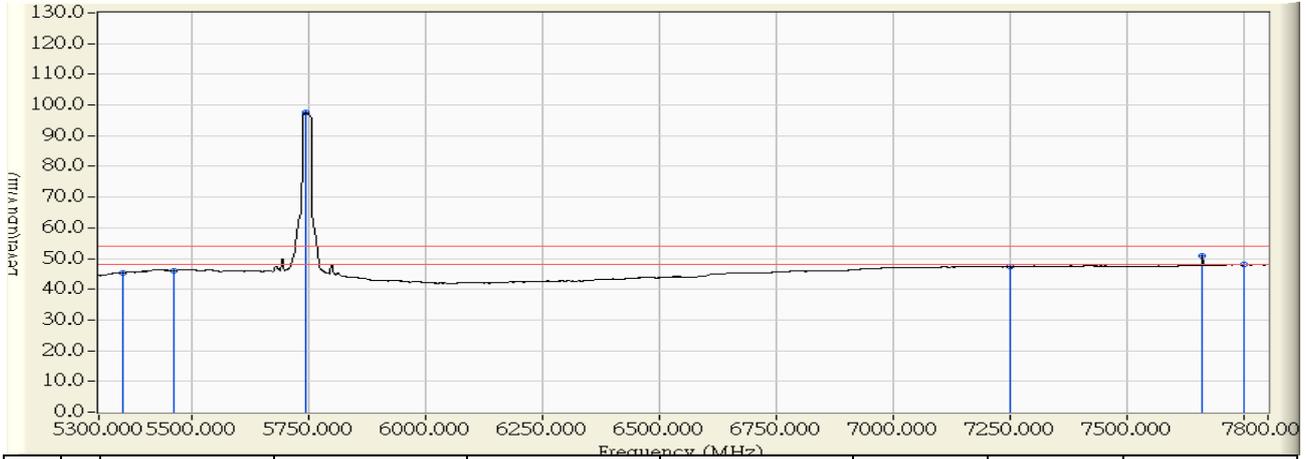


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	5350.000	0.934	55.666	56.600	-17.400	74.000	PEAK
2	5460.000	1.853	55.930	57.783	-16.217	74.000	PEAK
3	* 5750.000	1.403	107.345	108.748	34.748	74.000	PEAK
4	7250.000	5.954	52.672	58.625	-15.375	74.000	PEAK
5	7712.500	6.774	54.225	61.000	-13.000	74.000	PEAK
6	7750.000	6.833	52.430	59.264	-14.736	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 : 2016/02/02 - 13:59
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11n(20M)_5745MHz

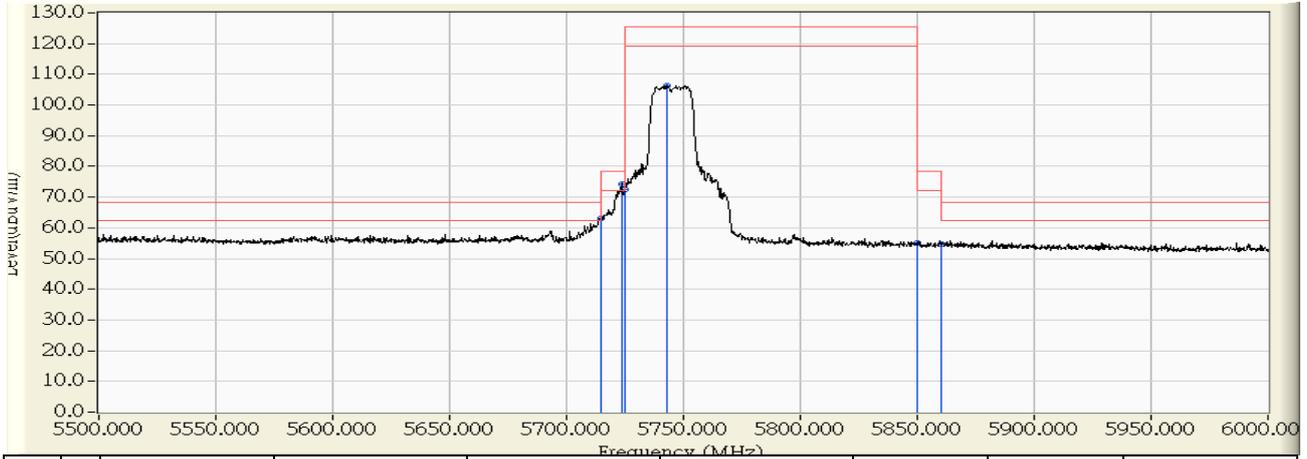


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBµV)	Measure Level (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector Type
1	5350.000	0.934	44.408	45.342	-8.658	54.000	AVERAGE
2	5460.000	1.853	44.059	45.912	-8.088	54.000	AVERAGE
3	* 5743.750	1.418	96.040	97.458	43.458	54.000	AVERAGE
4	7250.000	5.954	41.273	47.226	-6.774	54.000	AVERAGE
5	7660.000	6.691	44.310	51.002	-2.998	54.000	AVERAGE
6	7750.000	6.833	41.163	47.997	-6.003	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 : 2016/02/02 - 14:05
Limit : FCC_SPARTE_15.407_H_Band4_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-Band Wireless N-600 Range Extender	Note : Mode 1: Transmit_802.11n(20M)_5745MHz

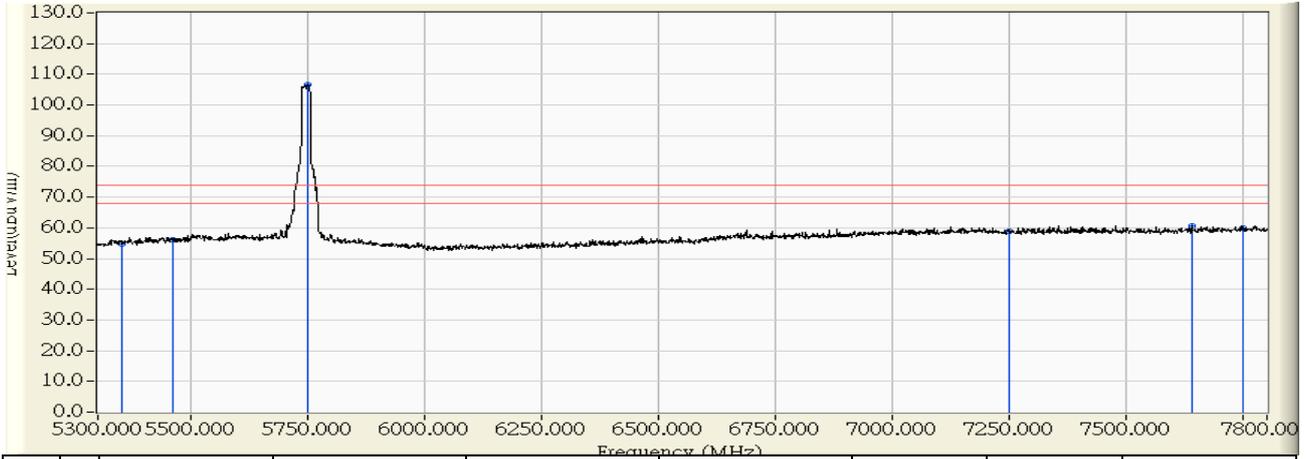


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	5715.000	1.621	61.541	63.162	-5.138	68.300	PEAK
2	* 5723.500	1.596	72.813	74.410	-3.890	78.300	PEAK
3	5725.000	1.592	71.075	72.667	-5.633	78.300	PEAK
4	5742.750	1.541	104.798	106.339	-18.961	125.300	PEAK
5	5850.000	1.229	53.993	55.222	-23.078	78.300	PEAK
6	5860.000	1.201	53.521	54.721	-13.579	68.300	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 : 2016/02/02 - 14:11
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11n(20M)_5745MHz

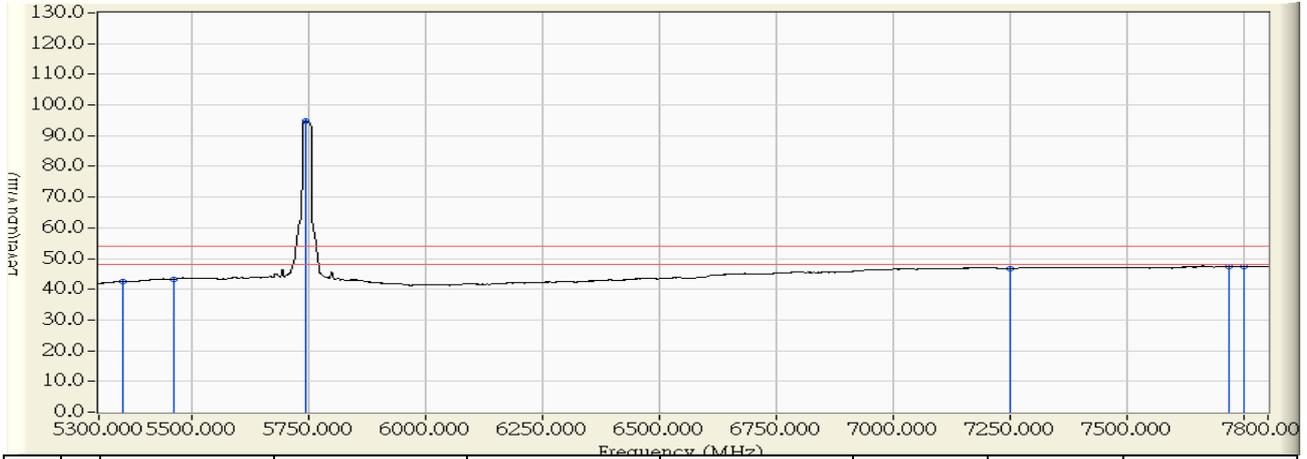


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	5350.000	1.250	53.440	54.690	-19.310	74.000	PEAK
2	5460.000	2.114	54.041	56.155	-17.845	74.000	PEAK
3	* 5750.000	1.520	105.002	106.522	32.522	74.000	PEAK
4	7250.000	5.454	53.306	58.759	-15.241	74.000	PEAK
5	7638.750	6.158	54.356	60.514	-13.486	74.000	PEAK
6	7750.000	6.333	53.462	59.796	-14.204	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 : 2016/02/02 - 14:14
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11n(20M)_5745MHz

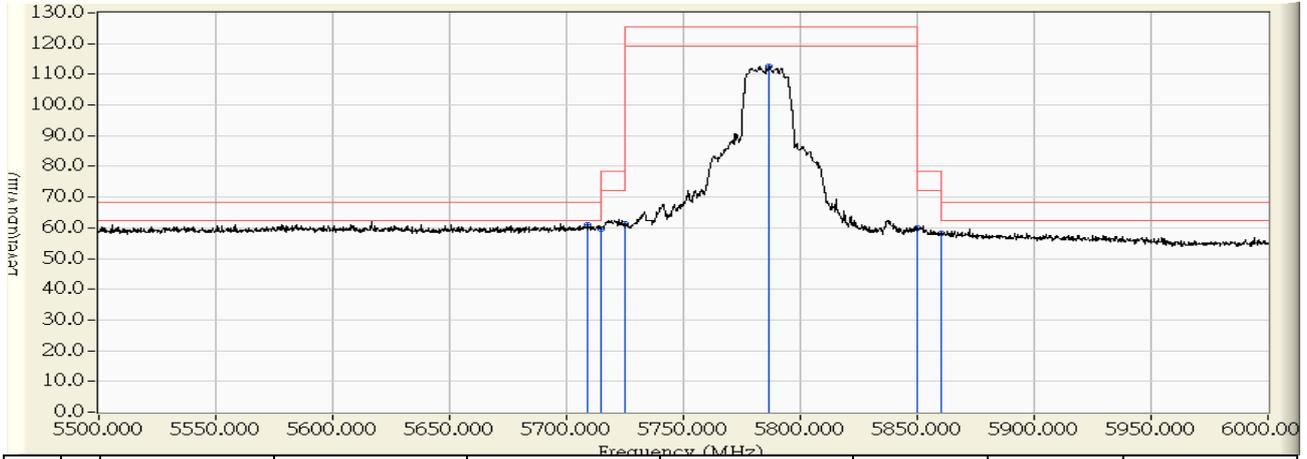


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBµV)	Measure Level (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector Type
1	5350.000	1.250	41.276	42.526	-11.474	54.000	AVERAGE
2	5460.000	2.114	41.138	43.252	-10.748	54.000	AVERAGE
3	* 5742.500	1.542	93.281	94.822	40.822	54.000	AVERAGE
4	7250.000	5.454	41.273	46.726	-7.274	54.000	AVERAGE
5	7716.250	6.281	41.230	47.511	-6.489	54.000	AVERAGE
6	7750.000	6.333	41.110	47.444	-6.556	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 : 2016/02/02 - 14:22
Limit : FCC_SPARTE_15.407_H_Band4_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-Band Wireless N-600 Range Extender	Note : Mode 1: Transmit_802.11n(20M)_5785MHz

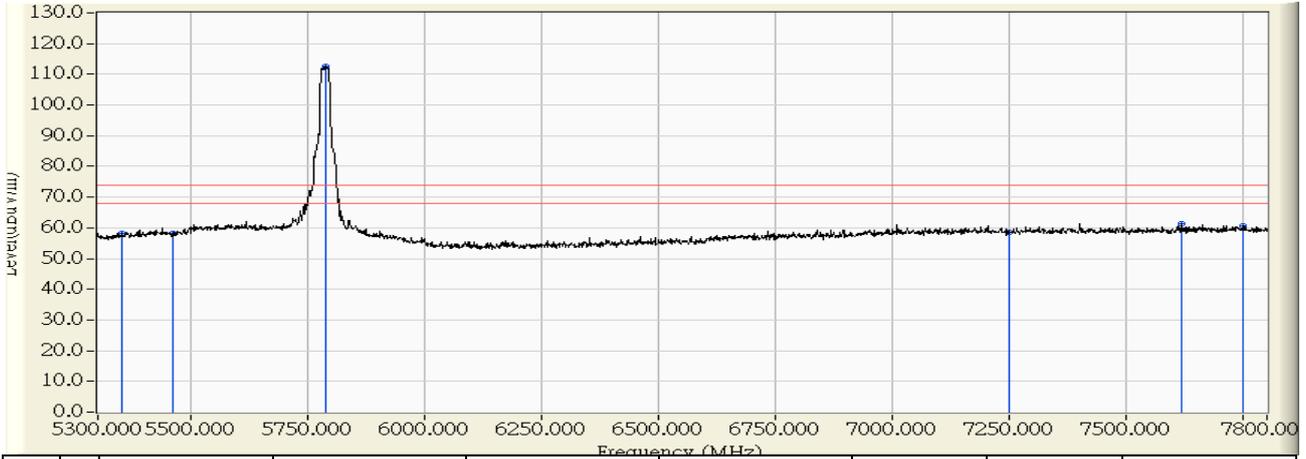


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	5708.750	1.503	59.354	60.856	-7.444	68.300	PEAK
2		5715.000	1.487	58.127	59.614	-8.686	68.300	PEAK
3		5725.000	1.463	59.835	61.298	-17.002	78.300	PEAK
4		5786.750	1.315	111.374	112.689	-12.611	125.300	PEAK
5		5850.000	1.163	58.796	59.959	-18.341	78.300	PEAK
6		5860.000	1.139	57.065	58.204	-10.096	68.300	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 : 2016/02/02 - 14:27
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11n(20M)_5785MHz

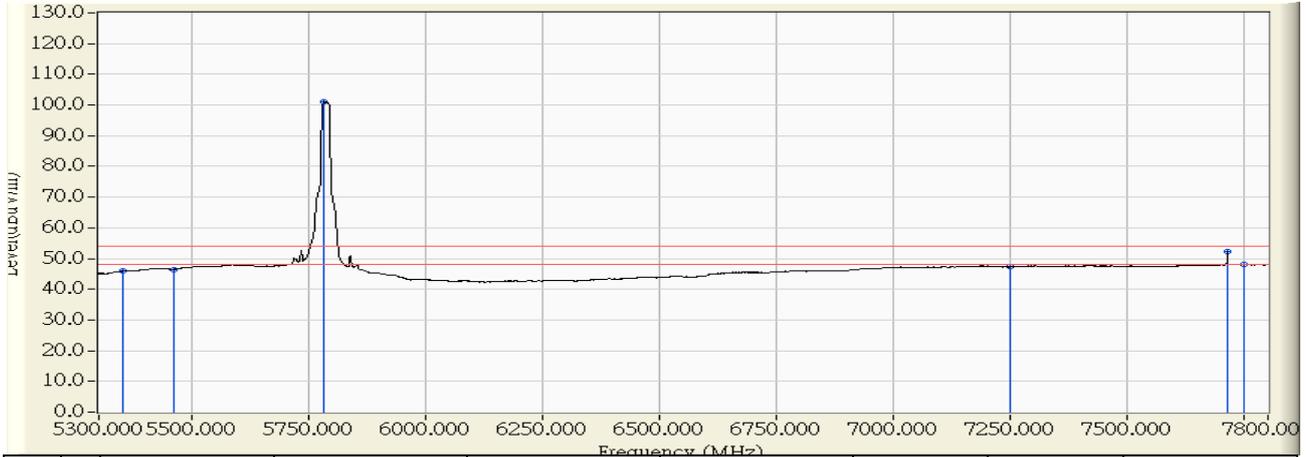


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	5350.000	0.934	57.318	58.252	-15.748	74.000	PEAK
2	5460.000	1.853	56.327	58.180	-15.820	74.000	PEAK
3	* 5786.250	1.316	111.374	112.690	38.690	74.000	PEAK
4	7250.000	5.954	52.558	58.511	-15.489	74.000	PEAK
5	7618.750	6.627	54.853	61.479	-12.521	74.000	PEAK
6	7750.000	6.833	53.718	60.552	-13.448	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 : 2016/02/02 - 14:35
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11n(20M)_5785MHz

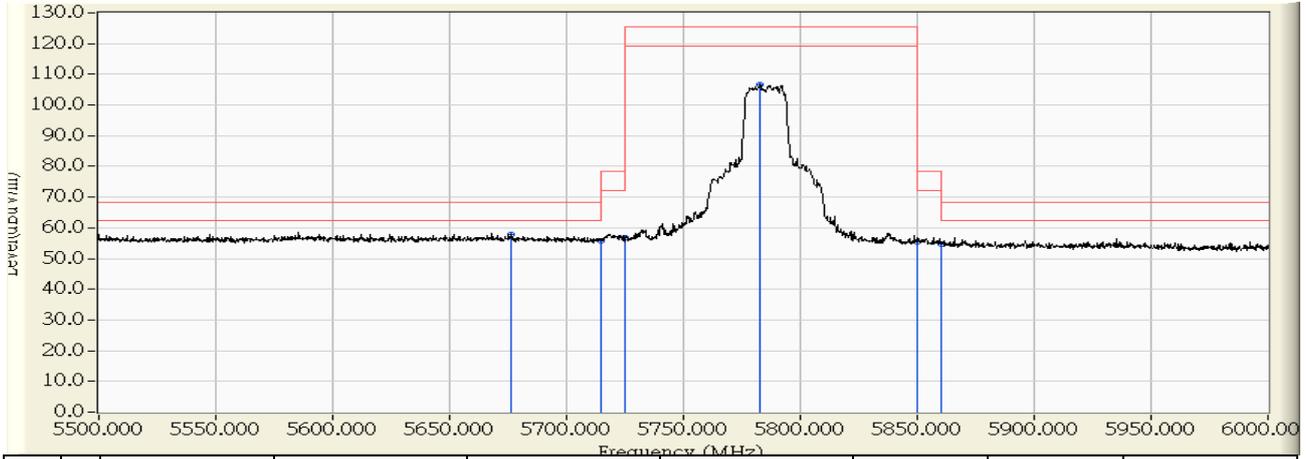


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	5350.000	0.934	45.000	45.934	-8.066	54.000	AVERAGE
2	5460.000	1.853	44.502	46.355	-7.645	54.000	AVERAGE
3	* 5781.250	1.328	99.800	101.128	47.128	54.000	AVERAGE
4	7250.000	5.954	41.298	47.251	-6.749	54.000	AVERAGE
5	7713.750	6.777	45.450	52.227	-1.773	54.000	AVERAGE
6	7750.000	6.833	41.134	47.968	-6.032	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 : 2016/02/02 - 14:42
Limit : FCC_SPARTE_15.407_H_Band4_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-Band Wireless N-600 Range Extender	Note : Mode 1: Transmit_802.11n(20M)_5785MHz

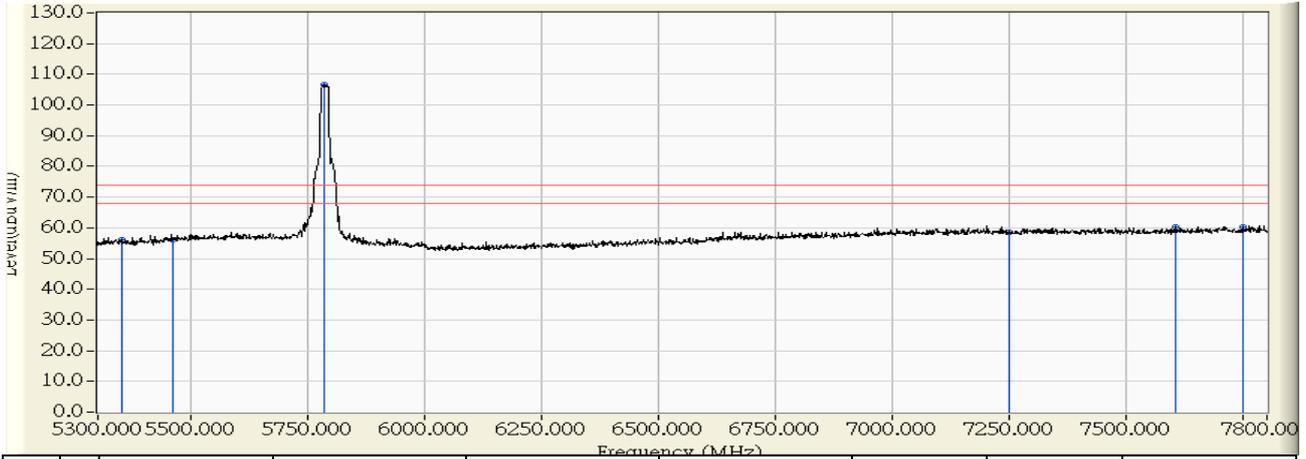


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	5676.250	1.734	55.954	57.688	-10.612	68.300	PEAK
2		5715.000	1.621	54.188	55.809	-12.491	68.300	PEAK
3		5725.000	1.592	55.372	56.964	-21.336	78.300	PEAK
4		5783.000	1.424	105.069	106.493	-18.807	125.300	PEAK
5		5850.000	1.229	54.338	55.567	-22.733	78.300	PEAK
6		5860.000	1.201	53.409	54.609	-13.691	68.300	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 : 2016/02/02 - 14:47
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11n(20M)_5785MHz

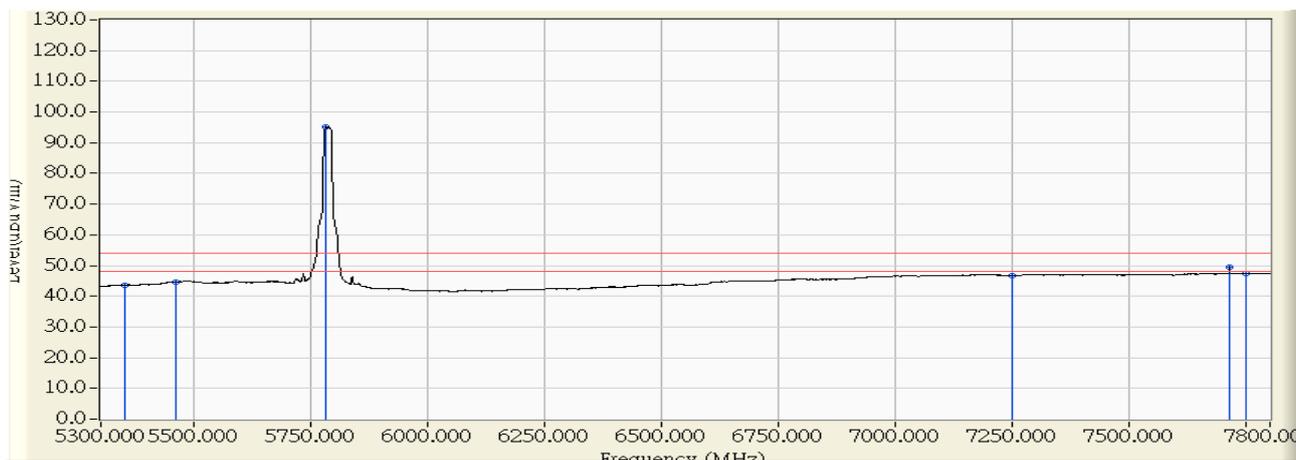


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	5350.000	1.250	55.024	56.274	-17.726	74.000	PEAK
2	5460.000	2.114	53.984	56.098	-17.902	74.000	PEAK
3	* 5782.500	1.425	105.069	106.494	32.494	74.000	PEAK
4	7250.000	5.454	52.928	58.381	-15.619	74.000	PEAK
5	7603.750	6.103	54.363	60.466	-13.534	74.000	PEAK
6	7750.000	6.333	53.842	60.176	-13.824	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 : 2016/02/02 - 14:51
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11n(20M)_5785MHz

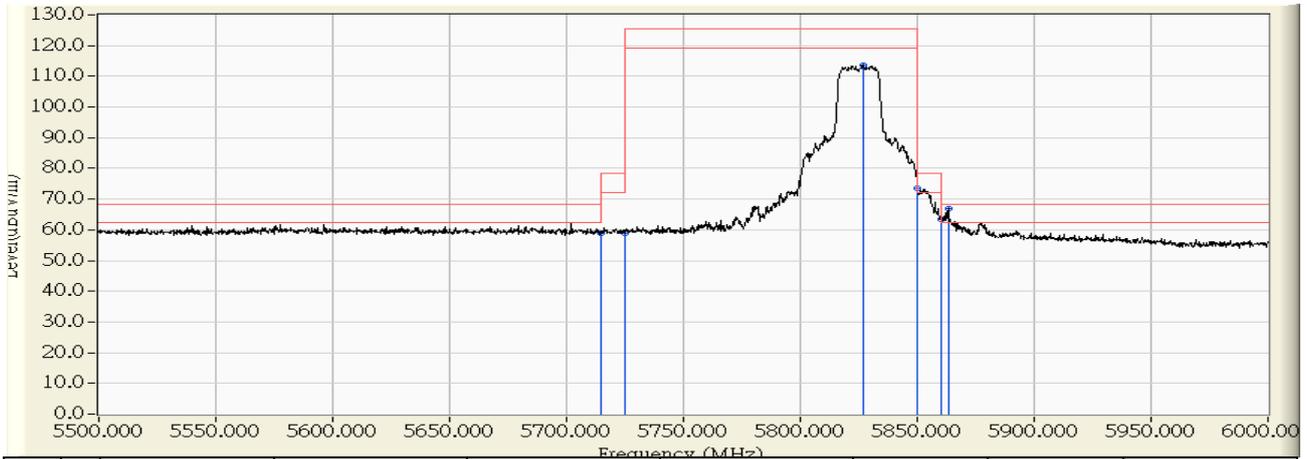


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	5350.000	1.250	42.441	43.691	-10.309	54.000	AVERAGE
2	5460.000	2.114	42.427	44.541	-9.459	54.000	AVERAGE
3	* 5781.250	1.429	93.713	95.142	41.142	54.000	AVERAGE
4	7250.000	5.454	41.256	46.709	-7.291	54.000	AVERAGE
5	7713.750	6.277	43.223	49.500	-4.500	54.000	AVERAGE
6	7750.000	6.333	41.090	47.424	-6.576	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 : 2016/02/02 - 14:56
Limit : FCC_SPARTE_15.407_H_Band4_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-Band Wireless N-600 Range Extender	Note : Mode 1: Transmit_802.11n(20M)_5825MHz

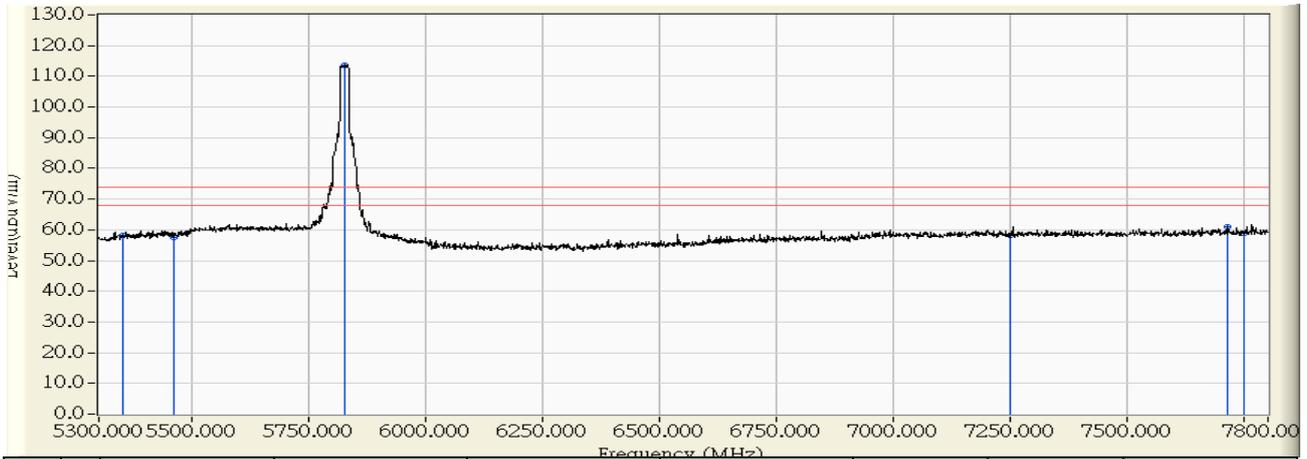


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	5715.000	1.487	57.400	58.887	-9.413	68.300	PEAK
2	5725.000	1.463	57.583	59.046	-19.254	78.300	PEAK
3	5827.000	1.218	112.405	113.623	-11.677	125.300	PEAK
4	5850.000	1.163	72.496	73.659	-4.641	78.300	PEAK
5	5860.000	1.139	62.362	63.501	-4.799	68.300	PEAK
6	* 5863.250	1.131	65.890	67.021	-1.279	68.300	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 : 2016/02/02 - 15:02
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11n(20M)_5825MHz

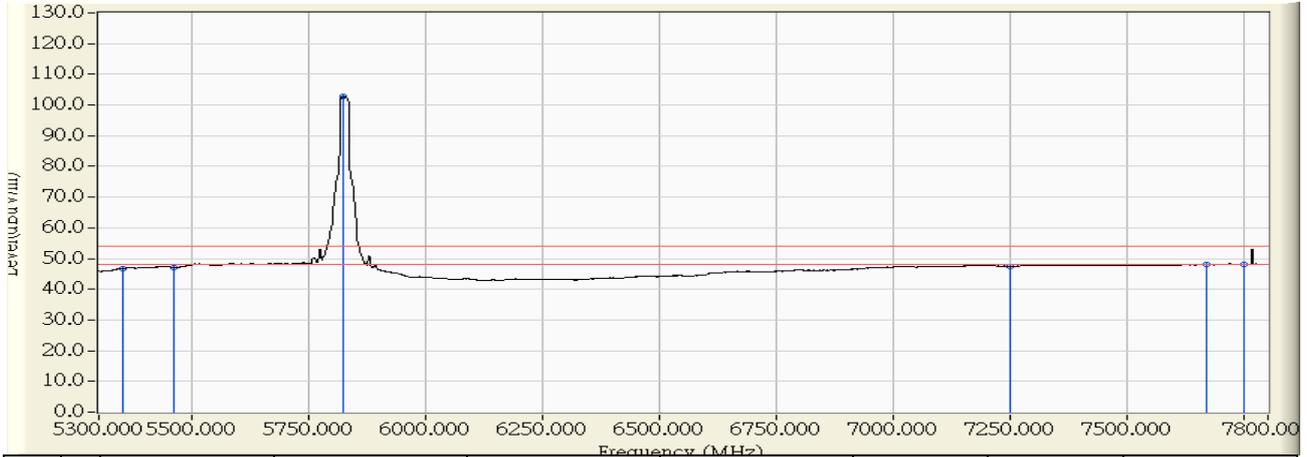


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	5350.000	0.934	57.281	58.215	-15.785	74.000	PEAK
2	5460.000	1.853	55.645	57.498	-16.502	74.000	PEAK
3	* 5826.250	1.220	112.405	113.625	39.625	74.000	PEAK
4	7250.000	5.954	52.394	58.347	-15.653	74.000	PEAK
5	7712.500	6.774	54.102	60.877	-13.123	74.000	PEAK
6	7750.000	6.833	51.985	58.819	-15.181	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 : 2016/02/02 - 15:06
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11n(20M)_5825MHz

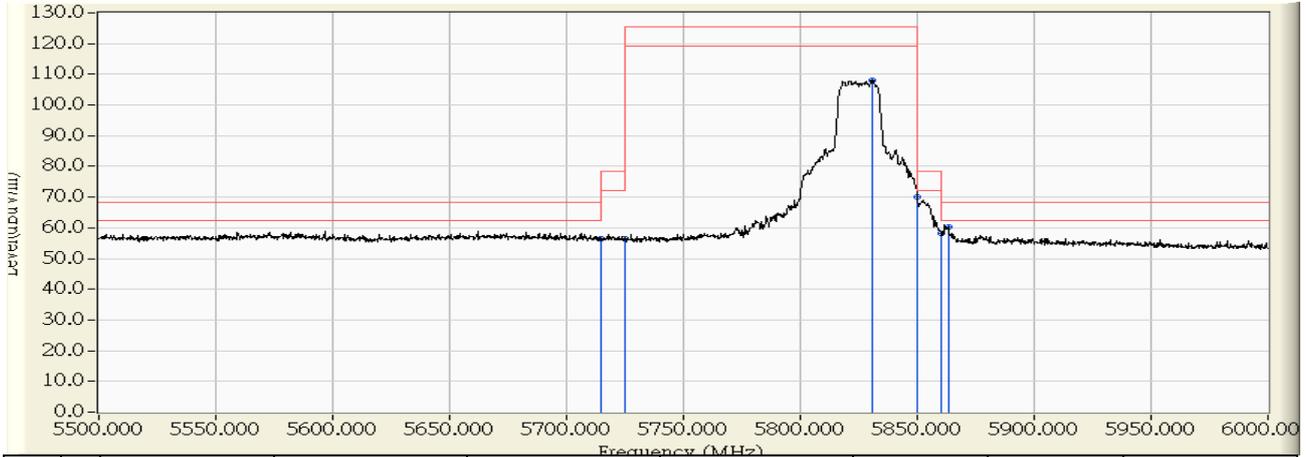


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	5350.000	0.934	45.929	46.863	-7.137	54.000	AVERAGE
2	5460.000	1.853	45.104	46.957	-7.043	54.000	AVERAGE
3	* 5821.250	1.232	101.548	102.780	48.780	54.000	AVERAGE
4	7250.000	5.954	41.461	47.414	-6.586	54.000	AVERAGE
5	7667.500	6.703	41.430	48.134	-5.866	54.000	AVERAGE
6	7750.000	6.833	41.328	48.162	-5.838	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 : 2016/02/02 - 15:13
Limit : FCC_SPARTE_15.407_H_Band4_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-Band Wireless N-600 Range Extender	Note : Mode 1: Transmit_802.11n(20M)_5825MHz

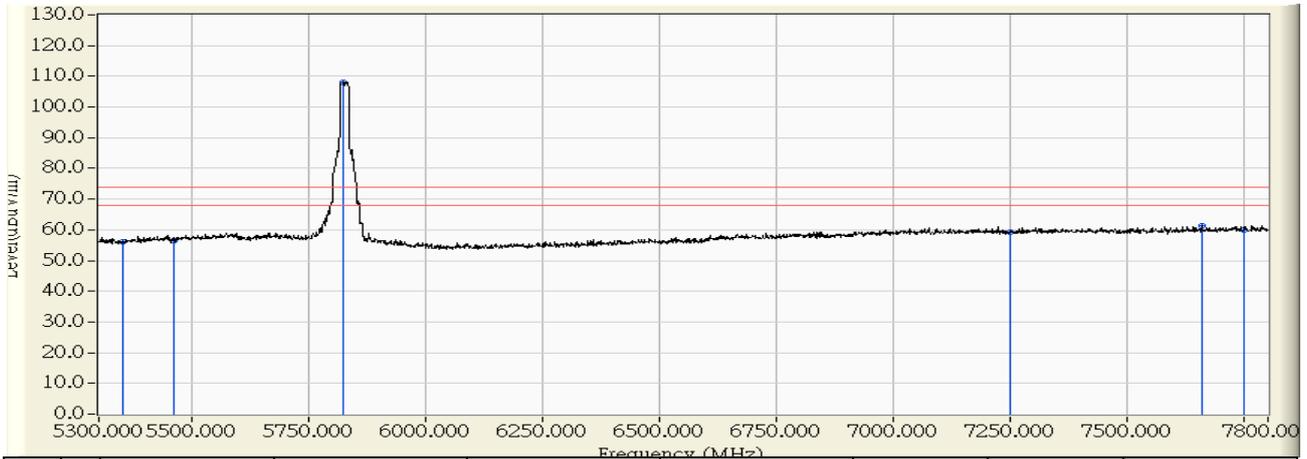


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	5715.000	1.621	54.760	56.381	-11.919	68.300	PEAK
2	5725.000	1.592	54.733	56.325	-21.975	78.300	PEAK
3	5830.500	1.286	106.845	108.131	-17.169	125.300	PEAK
4	5850.000	1.229	68.775	70.004	-8.296	78.300	PEAK
5	5860.000	1.201	56.885	58.085	-10.215	68.300	PEAK
6	* 5863.500	1.190	59.223	60.413	-7.887	68.300	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 : 2016/02/02 - 15:16
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11n(20M)_5825MHz

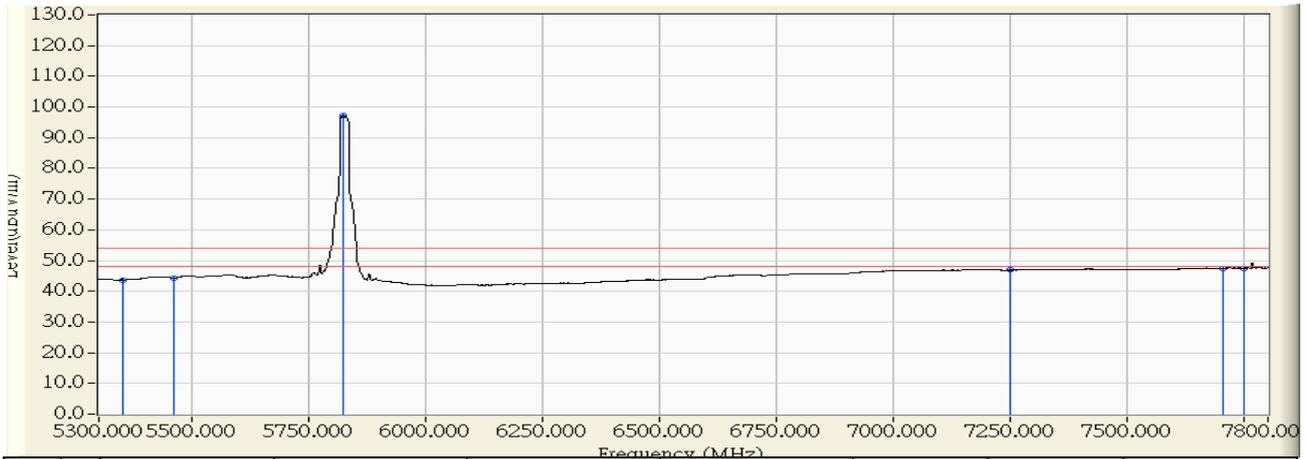


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	5350.000	1.250	54.700	55.950	-18.050	74.000	PEAK
2	5460.000	2.114	54.239	56.353	-17.647	74.000	PEAK
3	* 5822.500	1.309	106.888	108.197	34.197	74.000	PEAK
4	7250.000	5.454	53.885	59.338	-14.662	74.000	PEAK
5	7658.750	6.190	55.071	61.261	-12.739	74.000	PEAK
6	7750.000	6.333	53.492	59.826	-14.174	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 : 2016/02/02 - 15:20
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11n(20M)_5825MHz

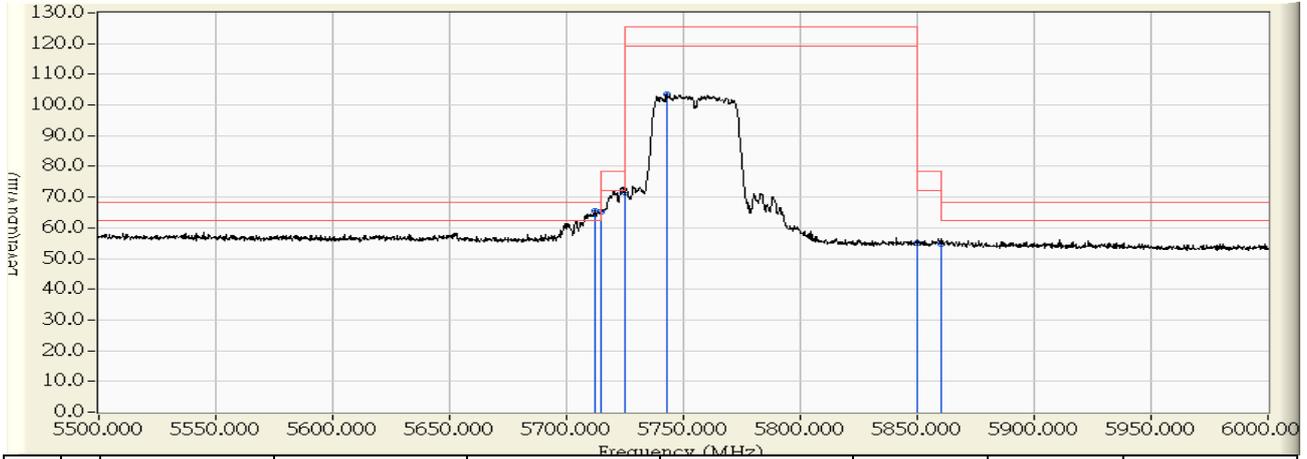


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBµV)	Measure Level (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector Type
1	5350.000	1.250	42.489	43.739	-10.261	54.000	AVERAGE
2	5460.000	2.114	42.226	44.340	-9.660	54.000	AVERAGE
3	* 5823.750	1.305	95.880	97.185	43.185	54.000	AVERAGE
4	7250.000	5.454	41.424	46.877	-7.123	54.000	AVERAGE
5	7702.500	6.258	41.207	47.466	-6.534	54.000	AVERAGE
6	7750.000	6.333	41.189	47.523	-6.477	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 : 2016/02/02 - 15:28
Limit : FCC_SPARTE_15.407_H_Band4_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-Band Wireless N-600 Range Extender	Note : Mode 1: Transmit_802.11n(40M)_5755MHz

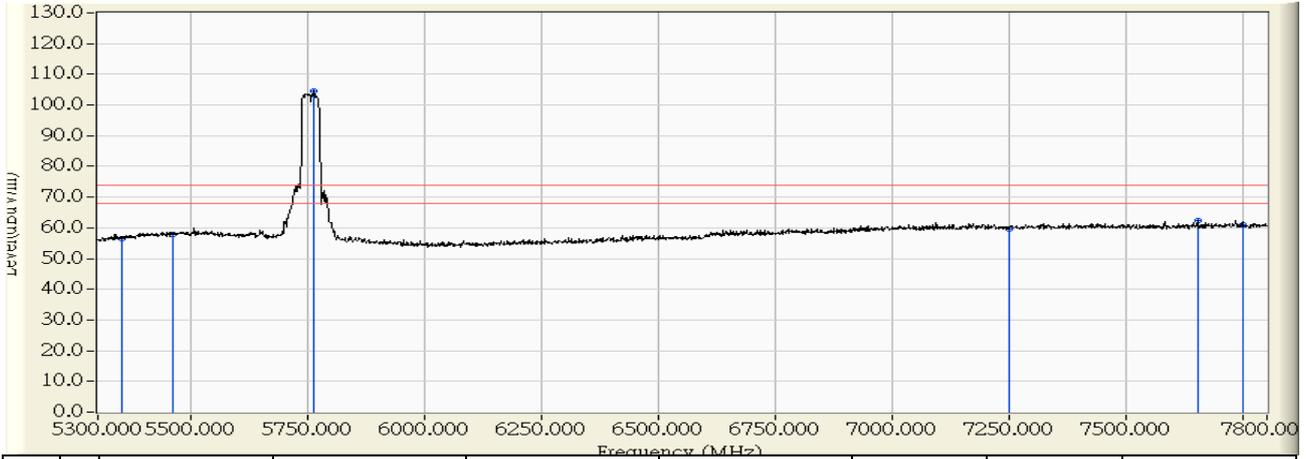


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	5712.000	1.494	64.071	65.565	-2.735	68.300	PEAK
2		5715.000	1.487	63.854	65.341	-2.959	68.300	PEAK
3		5725.000	1.463	70.037	71.500	-6.800	78.300	PEAK
4		5742.750	1.421	102.008	103.429	-21.871	125.300	PEAK
5		5850.000	1.163	53.909	55.072	-23.228	78.300	PEAK
6		5860.000	1.139	53.688	54.827	-13.473	68.300	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 : 2016/02/02 - 15:30
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11n(40M)_5755MHz

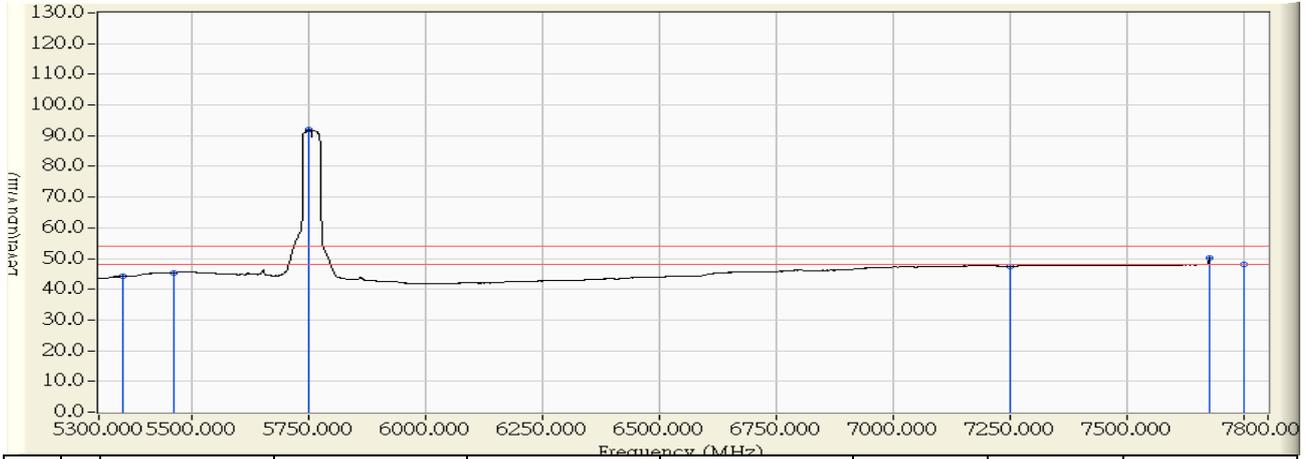


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	5350.000	0.934	55.462	56.396	-17.604	74.000	PEAK
2	5460.000	1.853	55.952	57.805	-16.195	74.000	PEAK
3	* 5762.500	1.374	103.245	104.618	30.618	74.000	PEAK
4	7250.000	5.954	53.725	59.678	-14.322	74.000	PEAK
5	7651.250	6.678	55.727	62.405	-11.595	74.000	PEAK
6	7750.000	6.833	54.072	60.906	-13.094	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 : 2016/02/02 - 15:35
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11n(40M)_5755MHz

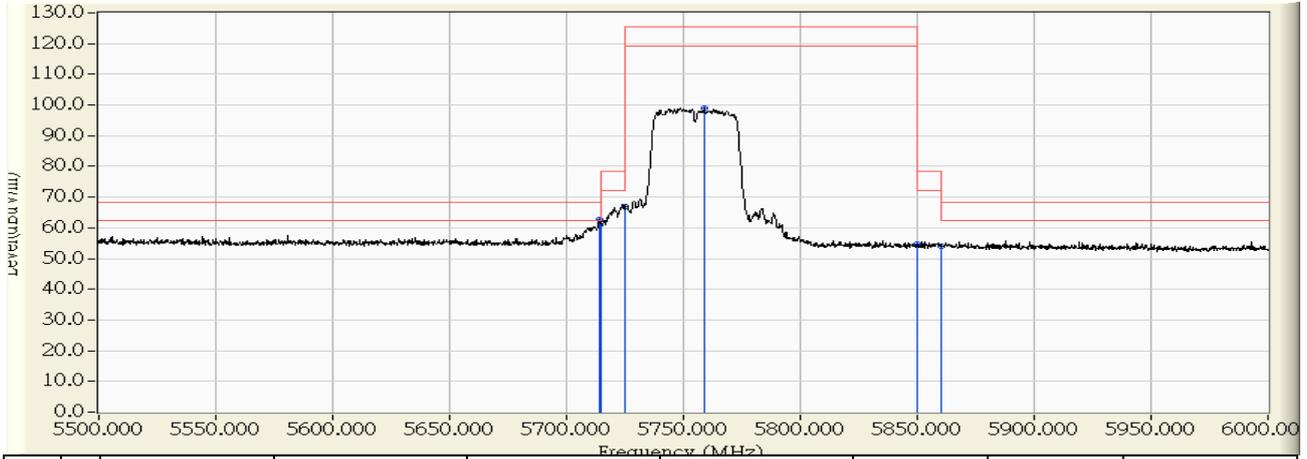


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBµV)	Measure Level (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector Type
1	5350.000	0.934	43.238	44.172	-9.828	54.000	AVERAGE
2	5460.000	1.853	43.440	45.293	-8.707	54.000	AVERAGE
3	* 5750.000	1.403	90.541	91.944	37.944	54.000	AVERAGE
4	7250.000	5.954	41.484	47.437	-6.563	54.000	AVERAGE
5	7673.750	6.713	43.351	50.064	-3.936	54.000	AVERAGE
6	7750.000	6.833	41.357	48.191	-5.809	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 : 2016/02/02 - 15:47
Limit : FCC_SPARTE_15.407_H_Band4_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-Band Wireless N-600 Range Extender	Note : Mode 1: Transmit_802.11n(40M)_5755MHz

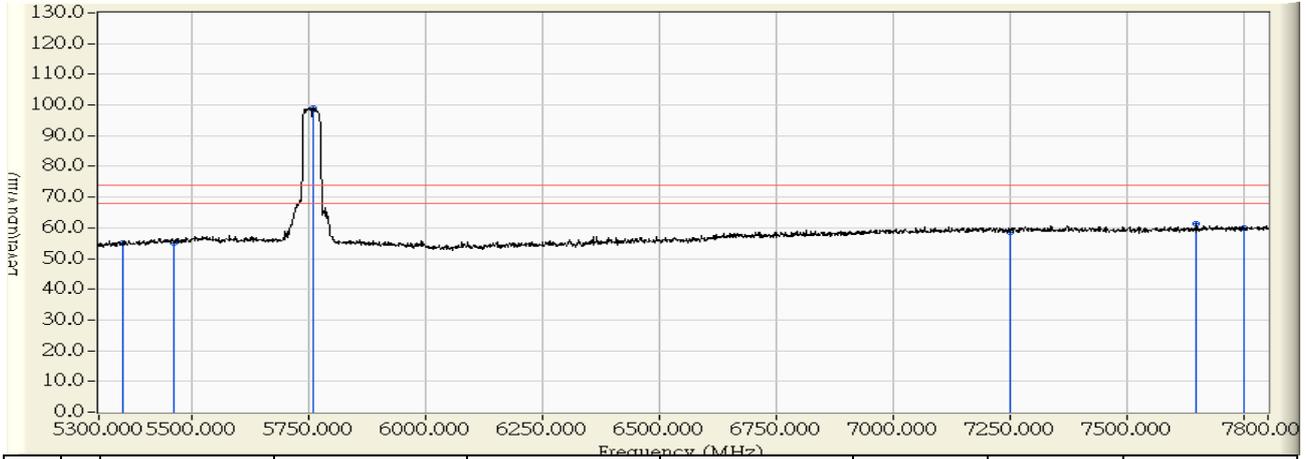


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	5714.000	1.624	61.035	62.659	-5.641	68.300	PEAK
2		5715.000	1.621	60.275	61.896	-6.404	68.300	PEAK
3		5725.000	1.592	65.286	66.878	-11.422	78.300	PEAK
4		5758.750	1.494	97.509	99.003	-26.297	125.300	PEAK
5		5850.000	1.229	53.341	54.570	-23.730	78.300	PEAK
6		5860.000	1.201	52.961	54.161	-14.139	68.300	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 : 2016/02/02 - 15:50
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11n(40M)_5755MHz

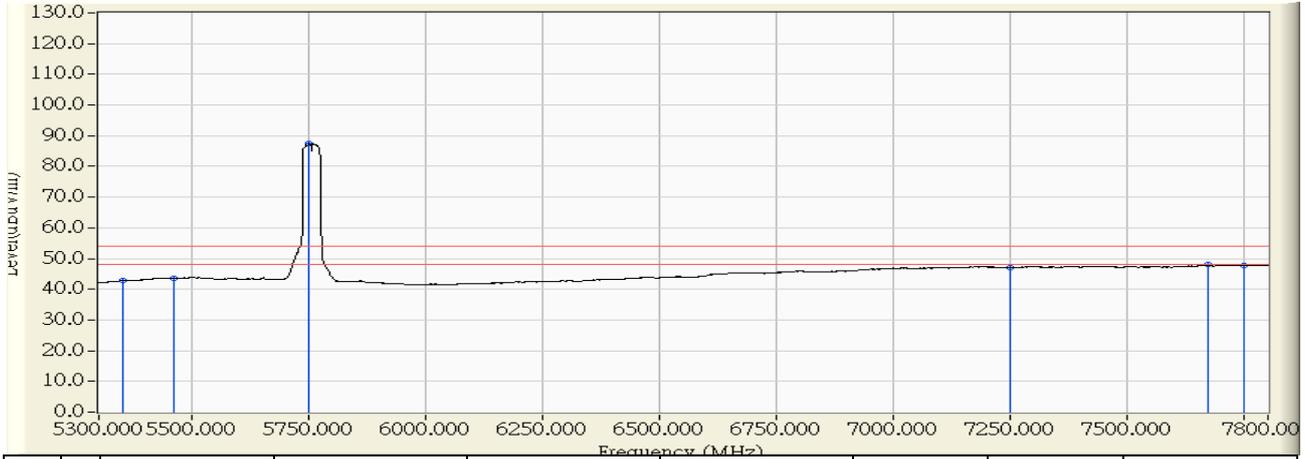


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	5350.000	1.250	53.983	55.233	-18.767	74.000	PEAK
2	5460.000	2.114	52.813	54.927	-19.073	74.000	PEAK
3	* 5758.750	1.494	97.509	99.003	25.003	74.000	PEAK
4	7250.000	5.454	52.975	58.428	-15.572	74.000	PEAK
5	7646.250	6.170	55.041	61.211	-12.789	74.000	PEAK
6	7750.000	6.333	53.581	59.915	-14.085	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 : 2016/02/02 - 16:01
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11n(40M)_5755MHz

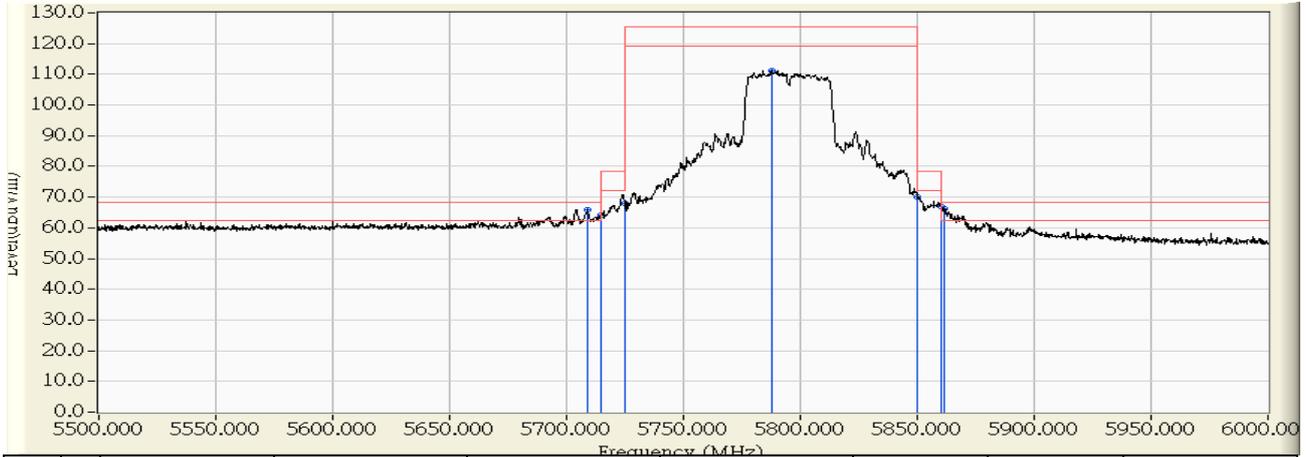


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	5350.000	1.250	41.540	42.790	-11.210	54.000	AVERAGE
2	5460.000	2.114	41.415	43.529	-10.471	54.000	AVERAGE
3	* 5750.000	1.520	85.869	87.389	33.389	54.000	AVERAGE
4	7250.000	5.454	41.543	46.996	-7.004	54.000	AVERAGE
5	7672.500	6.211	41.734	47.945	-6.055	54.000	AVERAGE
6	7750.000	6.333	41.363	47.697	-6.303	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 : 2016/02/02 - 16:09
Limit : FCC_SPARTE_15.407_H_Band4_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-Band Wireless N-600 Range Extender	Note : Mode 1: Transmit_802.11n(40M)_5795MHz

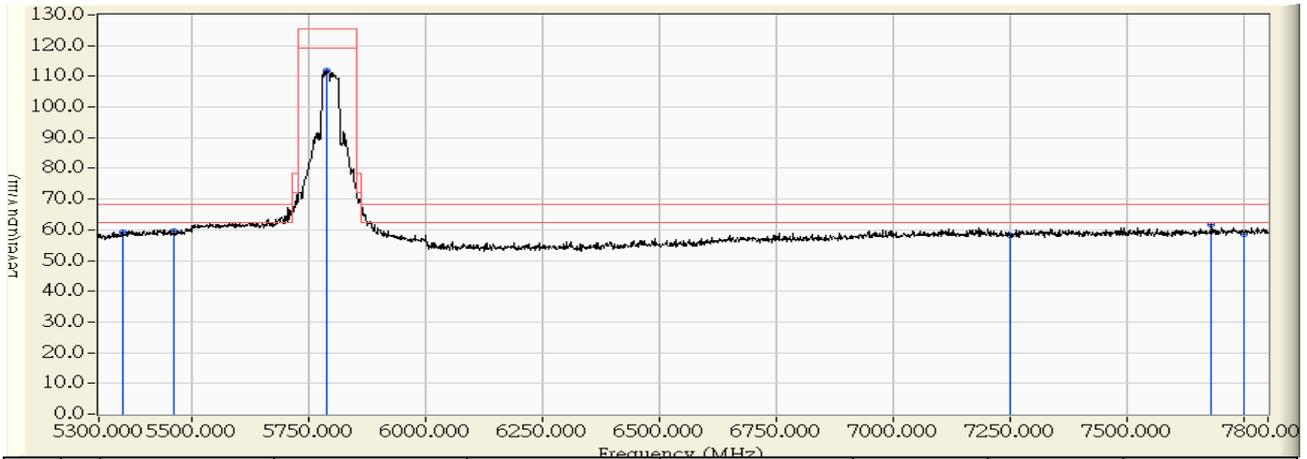


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	5709.250	1.501	64.402	65.903	-2.397	68.300	PEAK
2	5715.000	1.487	62.767	64.254	-4.046	68.300	PEAK
3	5725.000	1.463	66.526	67.989	-10.311	78.300	PEAK
4	5787.500	1.312	109.929	111.242	-14.058	125.300	PEAK
5	5850.000	1.163	69.059	70.222	-8.078	78.300	PEAK
6	* 5860.000	1.139	65.808	66.947	-1.353	68.300	PEAK
7	5861.500	1.136	65.173	66.308	-1.992	68.300	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 : 2016/02/02 -16:15
Limit : FCC_SPARTE_15.407_H_Band4_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-Band Wireless N-600 Range Extender	Note : Mode 1: Transmit_802.11n(40M)_5795MHz

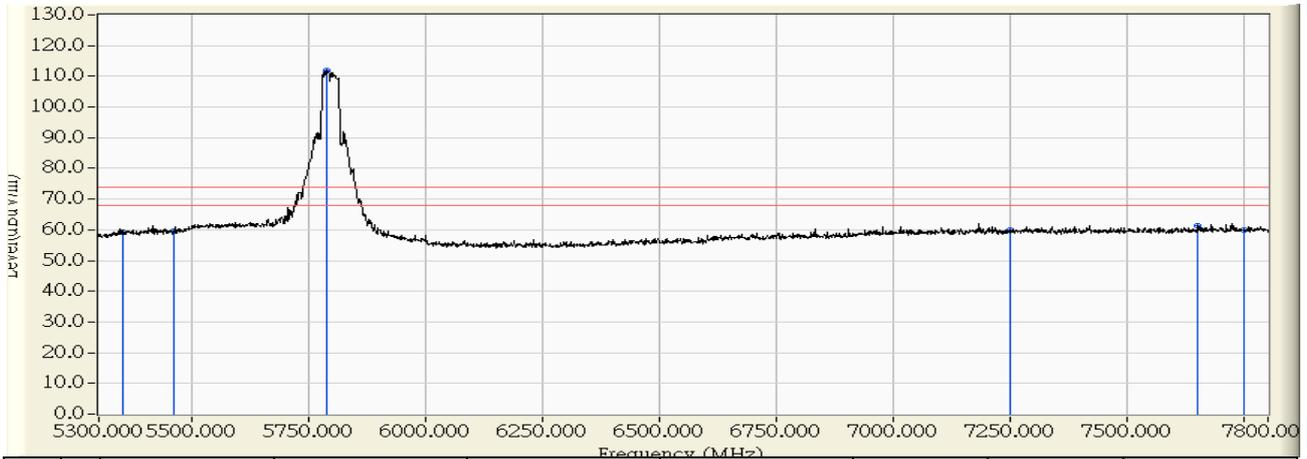


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	5350.000	0.934	58.257	59.191	-9.109	68.300	PEAK
2	5460.000	1.853	57.588	59.441	-8.859	68.300	PEAK
3	5787.500	1.312	110.457	111.770	-13.530	125.300	PEAK
4	7250.000	5.954	52.136	58.089	-10.211	68.300	PEAK
5	* 7678.750	6.721	55.044	61.765	-6.535	68.300	PEAK
6	7750.000	6.833	51.850	58.684	-9.616	68.300	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 : 2016/02/02 - 16:22
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11n(40M)_5795MHz

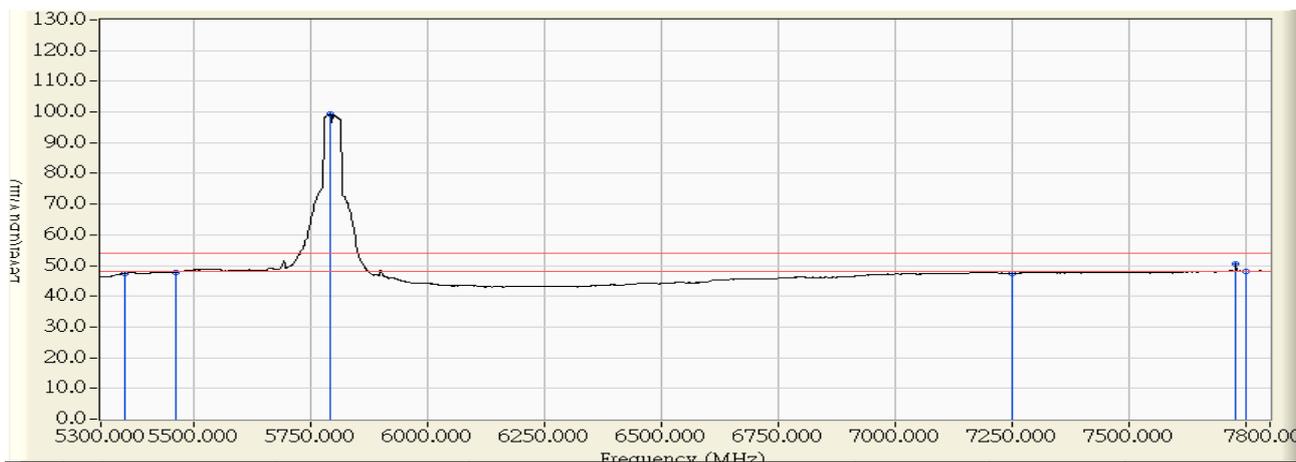


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	5350.000	0.934	58.257	59.191	-14.809	74.000	PEAK
2	5460.000	1.853	57.588	59.441	-14.559	74.000	PEAK
3	* 5787.500	1.312	110.457	111.770	37.770	74.000	PEAK
4	7250.000	5.954	53.905	59.858	-14.142	74.000	PEAK
5	7650.000	6.675	54.837	61.513	-12.487	74.000	PEAK
6	7750.000	6.833	52.971	59.805	-14.195	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 : 2016/02/02 - 16:30
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11n(40M)_5795MHz

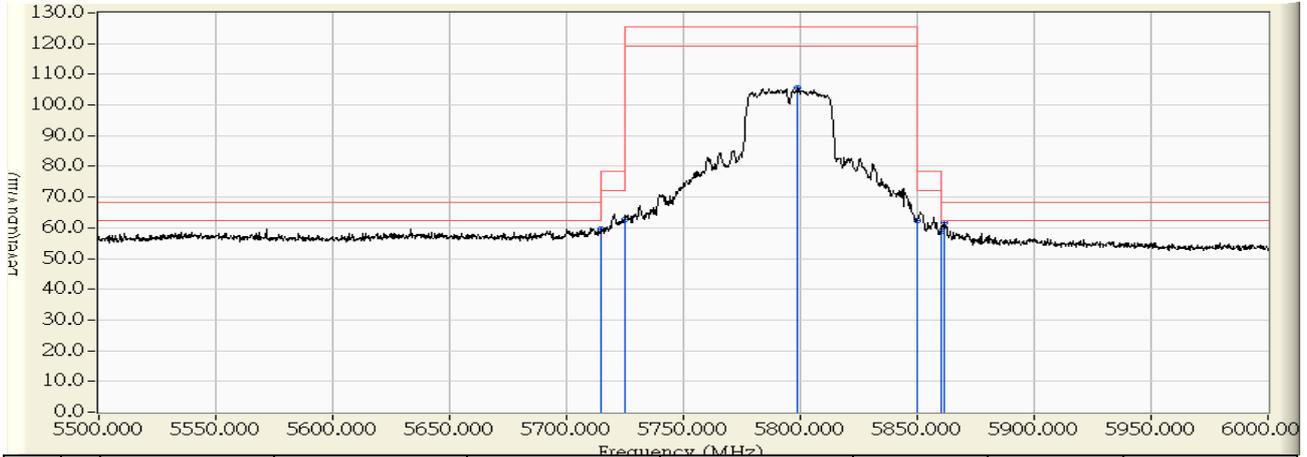


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBµV)	Measure Level (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector Type
1	5350.000	0.934	46.585	47.519	-6.481	54.000	AVERAGE
2	5460.000	1.853	45.834	47.687	-6.313	54.000	AVERAGE
3	* 5790.000	1.307	97.954	99.261	45.261	54.000	AVERAGE
4	7250.000	5.954	41.418	47.371	-6.629	54.000	AVERAGE
5	7726.250	6.796	43.910	50.706	-3.294	54.000	AVERAGE
6	7750.000	6.833	41.316	48.150	-5.850	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 : 2016/02/02 - 16:37
Limit : FCC_SPARTE_15.407_H_Band4_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-Band Wireless N-600 Range Extender	Note : Mode 1: Transmit_802.11n(40M)_5795MHz

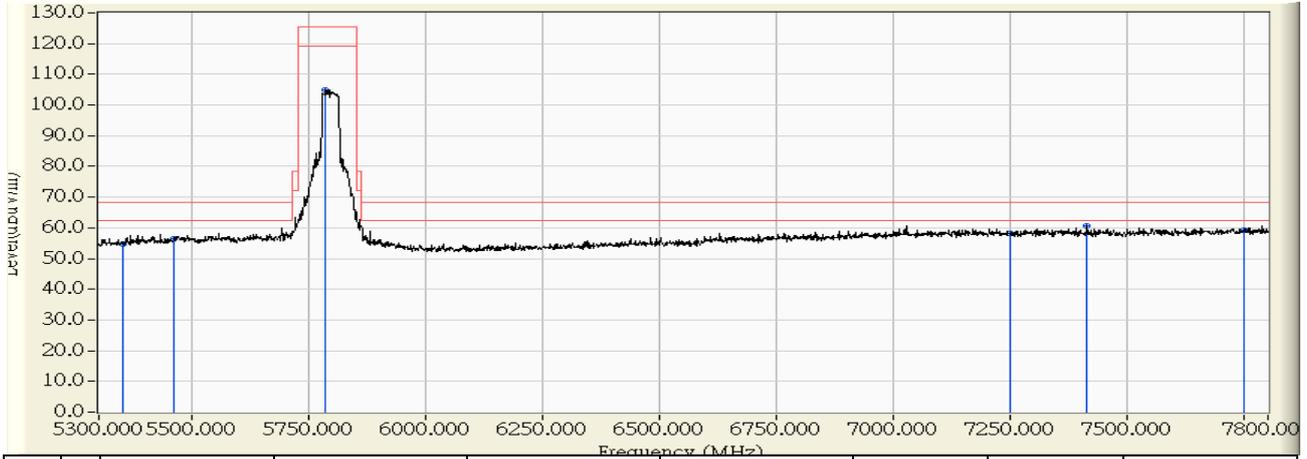


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	5715.000	1.621	57.835	59.456	-8.844	68.300	PEAK
2	5725.000	1.592	61.167	62.759	-15.541	78.300	PEAK
3	5799.000	1.377	104.088	105.465	-19.835	125.300	PEAK
4	5850.000	1.229	61.228	62.457	-15.843	78.300	PEAK
5	5860.000	1.201	57.858	59.058	-9.242	68.300	PEAK
6	* 5861.750	1.195	60.481	61.676	-6.624	68.300	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 : 2016/02/02 - 16:44
Limit : FCC_SPARTE_15.407_H_Band4_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-Band Wireless N-600 Range Extender	Note : Mode 1: Transmit_802.11n(40M)_5795MHz

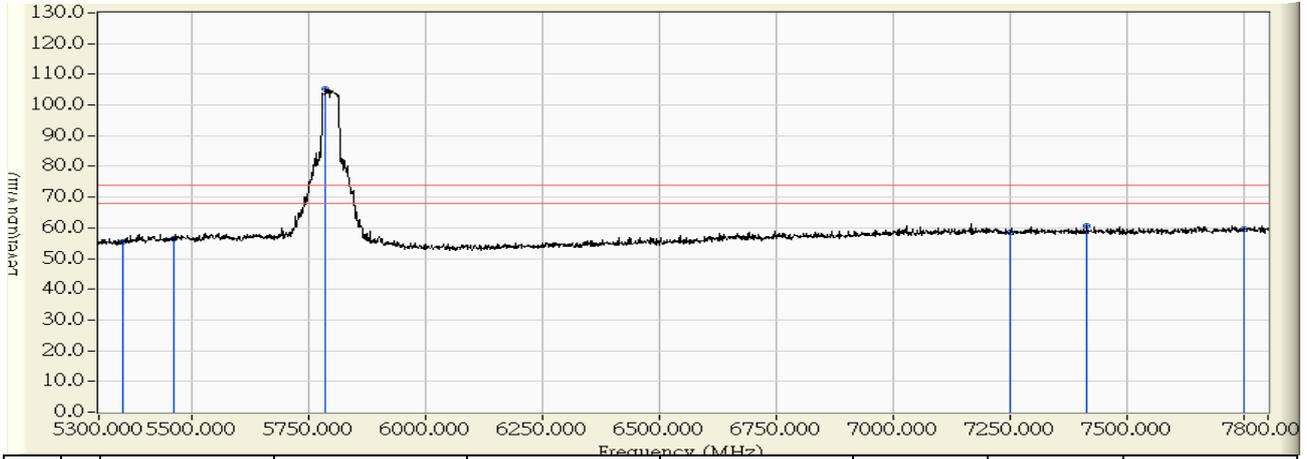


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBµV)	Measure Level (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector Type
1	5350.000	1.250	53.343	54.593	-13.707	68.300	PEAK
2	5460.000	2.114	54.206	56.320	-11.980	68.300	PEAK
3	5783.750	1.421	103.617	105.039	-20.261	125.300	PEAK
4	7250.000	5.454	52.832	58.285	-10.015	68.300	PEAK
5	* 7412.500	5.773	54.817	60.590	-7.710	68.300	PEAK
6	7750.000	6.333	52.821	59.155	-9.145	68.300	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 : 2016/02/02 - 16:49
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11n(40M)_5795MHz

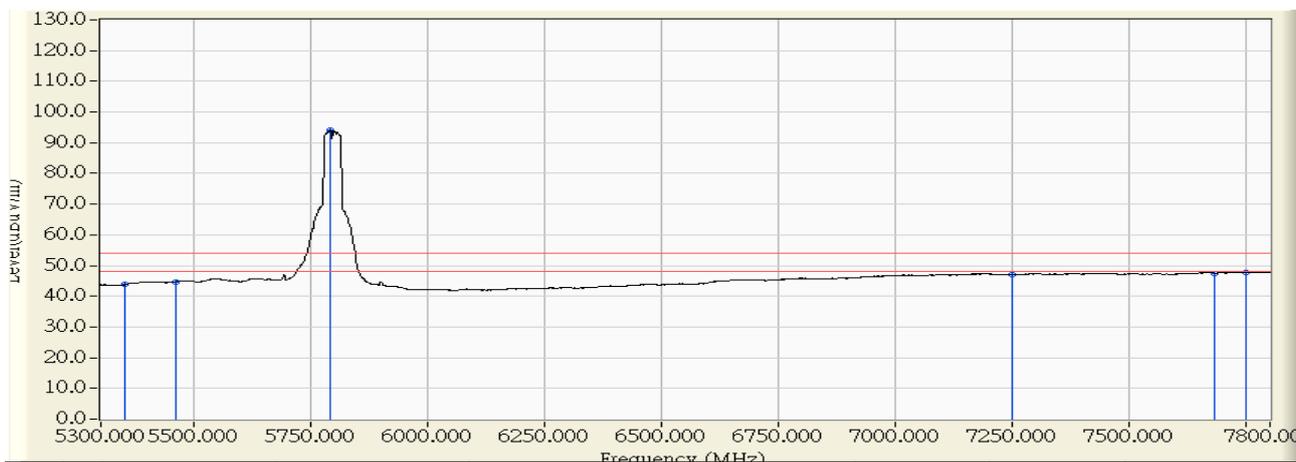


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	5350.000	1.250	54.233	55.483	-18.517	74.000	PEAK
2	5460.000	2.114	54.206	56.320	-17.680	74.000	PEAK
3	* 5783.750	1.421	103.852	105.274	31.274	74.000	PEAK
4	7250.000	5.454	53.012	58.465	-15.535	74.000	PEAK
5	7412.500	5.773	54.817	60.590	-13.410	74.000	PEAK
6	7750.000	6.333	53.256	59.590	-14.410	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 : 2016/02/02 - 16:55
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 N-600 Range Extender	Note : Mode 1: Transmit_802.11n(40M)_5795MHz



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	5350.000	1.250	42.511	43.761	-10.239	54.000	AVERAGE
2	5460.000	2.114	42.549	44.663	-9.337	54.000	AVERAGE
3	* 5790.000	1.404	92.533	93.937	39.937	54.000	AVERAGE
4	7250.000	5.454	41.542	46.995	-7.005	54.000	AVERAGE
5	7680.000	6.223	41.294	47.517	-6.483	54.000	AVERAGE
6	7750.000	6.333	41.431	47.765	-6.235	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

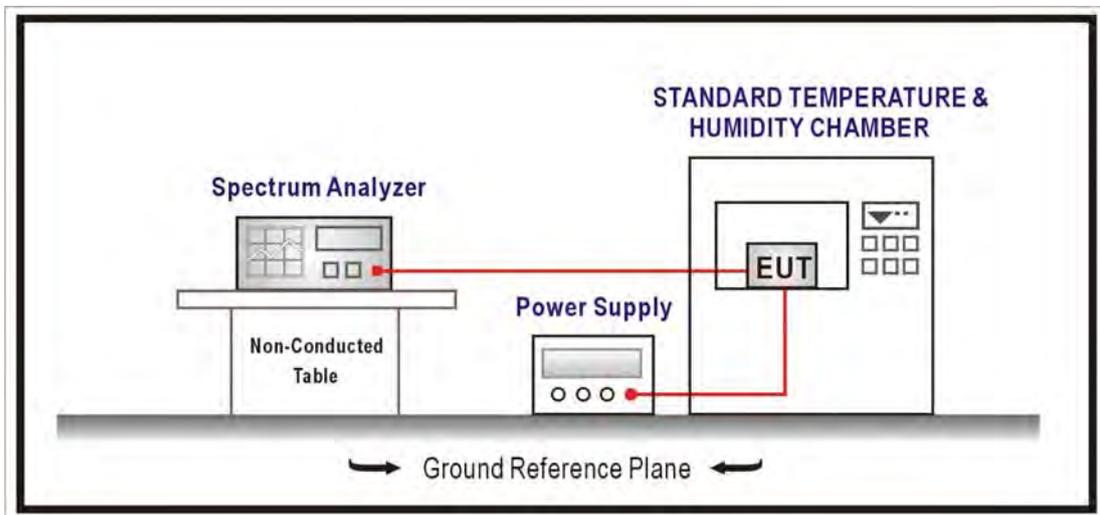
The following test equipments are used during the radiated emission tests:

Frequency Stability / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2016/08/23
Temperature & Humidity Chamber	WIT	TH-1S-B	1082101	2017/01/18

Note: 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 C63.10:2013; tested to U-NII test procedure of KDB 789033 D02 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 N-600 Range Extender		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit_802.11a - 5745MHz, ANT 0		
Date of Test	2016/02/03	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5745.00031	0.0536	Pass
-10		5745.00010	0.0172	Pass
0		5745.00011	0.0193	Pass
10		5744.99983	-0.0295	Pass
20		5744.99995	-0.0089	Pass
30		5744.99972	-0.0491	Pass
40		5744.99981	-0.0330	Pass
50		5744.99972	-0.0488	Pass

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5744.99997	-0.0050	Pass
	120	5744.99990	-0.0168	Pass
	138	5744.99999	-0.0012	Pass

Product	Dual-Band Wireless N-600 Range Extender		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit- 802.11a - 5825MHz, ANT 0		
Date of Test	2016/02/03	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5825.00034	0.0576	Pass
-10		5825.00034	0.0591	Pass
0		5825.00005	0.0089	Pass
10		5824.99996	-0.0062	Pass
20		5824.99980	-0.0341	Pass
30		5824.99973	-0.0466	Pass
40		5824.99976	-0.0412	Pass
50		5824.99975	-0.0437	Pass

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5824.99999	-0.0013	Pass
	120	5824.99972	-0.0488	Pass
	138	5824.99969	-0.0538	Pass

Product	Dual-Band Wireless N-600 Range Extender		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit- 802.11n_20M - 5745MHz, ANT 0		
Date of Test	2016/02/03	Test Site	SR7

Temperature Interval (oC)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5745.00005	0.0081	Pass
-10		5745.00030	0.0520	Pass
0		5745.00027	0.0468	Pass
10		5744.99991	-0.0152	Pass
20		5744.99990	-0.0173	Pass
30		5744.99999	-0.0010	Pass
40		5744.99979	-0.0372	Pass
50		5744.99981	-0.0325	Pass

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5744.99970	-0.0526	Pass
	120	5744.99985	-0.0269	Pass
	138	5744.99982	-0.0306	Pass

Product	Dual-Band Wireless N-600 Range Extender		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit- 802.11n_20M - 5825MHz, ANT 0		
Date of Test	2016/02/03	Test Site	SR7

Temperature Interval (oC)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5825.0479	8.2212	Pass
-10		5825.0999	17.1418	Pass
0		5824.8950	-18.0237	Pass
10		5824.9214	-13.4955	Pass
20		5824.9064	-16.0662	Pass
30		5824.9113	-15.2351	Pass
40		5824.8269	-29.7163	Pass
50		5824.9717	-4.8573	Pass

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5824.99986	-0.0234	Pass
	120	5824.99983	-0.0289	Pass
	138	5824.99987	-0.0220	Pass

Product	Dual-Band Wireless N-600 Range Extender		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit- 802.11n_20M - 5745MHz, ANT 1		
Date of Test	2016/02/03	Test Site	SR7

Temperature Interval (oC)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5745.00009	0.0156	Pass
-10		5745.00022	0.0384	Pass
0		5745.00018	0.0307	Pass
10		5744.99992	-0.0141	Pass
20		5744.99989	-0.0197	Pass
30		5744.99990	-0.0178	Pass
40		5744.99998	-0.0037	Pass
50		5744.99967	-0.0576	Pass

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5744.99998	-0.0033	Pass
	120	5744.99977	-0.0406	Pass
	138	5744.99994	-0.0101	Pass

Product	Dual-Band Wireless N-600 Range Extender		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit- 802.11n_20M - 5825MHz, ANT 1		
Date of Test	2016/02/03	Test Site	SR7

Temperature Interval (oC)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5825.00020	0.0342	Pass
-10		5825.00019	0.0328	Pass
0		5825.00021	0.0363	Pass
10		5824.99981	-0.0326	Pass
20		5824.99981	-0.0332	Pass
30		5824.99997	-0.0050	Pass
40		5824.99975	-0.0435	Pass
50		5824.99963	-0.0631	Pass

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5824.99980	-0.0336	Pass
	120	5824.99984	-0.0283	Pass
	138	5824.99998	-0.0031	Pass

Product	Dual-Band Wireless N-600 Range Extender		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit- 802.11n_40M - 5755MHz, ANT 0		
Date of Test	2016/02/03	Test Site	SR7

Temperature Interval (oC)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5755.00039	0.0683	Pass
-10		5755.00049	0.0850	Pass
0		5755.00018	0.0318	Pass
10		5754.99987	-0.0227	Pass
20		5754.99986	-0.0239	Pass
30		5754.99985	-0.0267	Pass
40		5755.00000	-0.0005	Pass
50		5754.99991	-0.0163	Pass

Temperature Interval (oC)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5754.99991	-0.0154	Pass
	120	5754.99985	-0.0255	Pass
	138	5754.99969	-0.0539	Pass

Product	Dual-Band Wireless N-600 Range Extender		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit- 802.11n_40M - 5795MHz, ANT 0		
Date of Test	2016/02/03	Test Site	SR7

Temperature Interval (oC)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5795.00009	0.0158	Pass
-10		5795.00015	0.0260	Pass
0		5795.00004	0.0062	Pass
10		5794.99982	-0.0315	Pass
20		5794.99992	-0.0131	Pass
30		5794.99981	-0.0336	Pass
40		5794.99963	-0.0639	Pass
50		5794.99992	-0.0144	Pass

Temperature Interval (oC)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5794.99977	-0.0391	Pass
	120	5794.99999	-0.0019	Pass
	138	5794.99999	-0.0015	Pass

Product	Dual-Band Wireless N-600 Range Extender		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit- 802.11n_40M - 5755MHz, ANT 1		
Date of Test	2016/02/03	Test Site	SR7

Temperature Interval (oC)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5745.00030	0.0523	Pass
-10		5745.00003	0.0049	Pass
0		5745.00018	0.0314	Pass
10		5744.99987	-0.0232	Pass
20		5744.99985	-0.0265	Pass
30		5744.99990	-0.0183	Pass
40		5745.00000	-0.0007	Pass
50		5744.99963	-0.0651	Pass

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5744.99992	-0.0144	Pass
	120	5744.99977	-0.0392	Pass
	138	5744.99998	-0.0029	Pass

Product	Dual-Band Wireless N-600 Range Extender		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit- 802.11n_40M - 5795MHz, ANT 1		
Date of Test	2016/02/03	Test Site	SR7

Temperature Interval (oC)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5795.00037	0.0645	Pass
-10		5795.00002	0.0034	Pass
0		5795.00027	0.0466	Pass
10		5794.99996	-0.0066	Pass
20		5794.99995	-0.0090	Pass
30		5794.99982	-0.0317	Pass
40		5794.99977	-0.0403	Pass
50		5794.99993	-0.0114	Pass

Temperature Interval (oC)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5794.99993	-0.0124	Pass
	120	5794.99972	-0.0483	Pass
	138	5794.99968	-0.0547	Pass

Attachment 1

➤ **Test Setup Photograph**

<Conducted Emission>

Test Mode : Mode 1: Transmit

Description : Front View of Conducted Emission Test Setup



Test Mode : Mode 1: Transmit

Description : Back View of Conducted Emission Test Setup



<Radiated Emission>

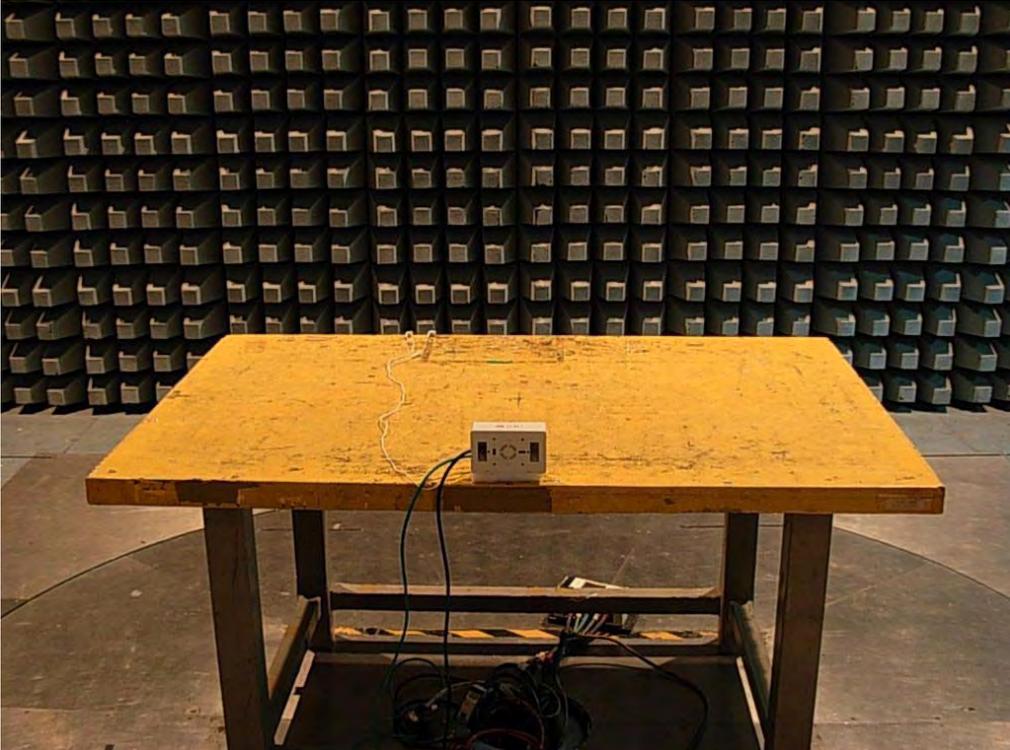
Test Mode : Mode 1: Transmit

Description : Front View of Radiated Emission Test Setup (Bi-Log)



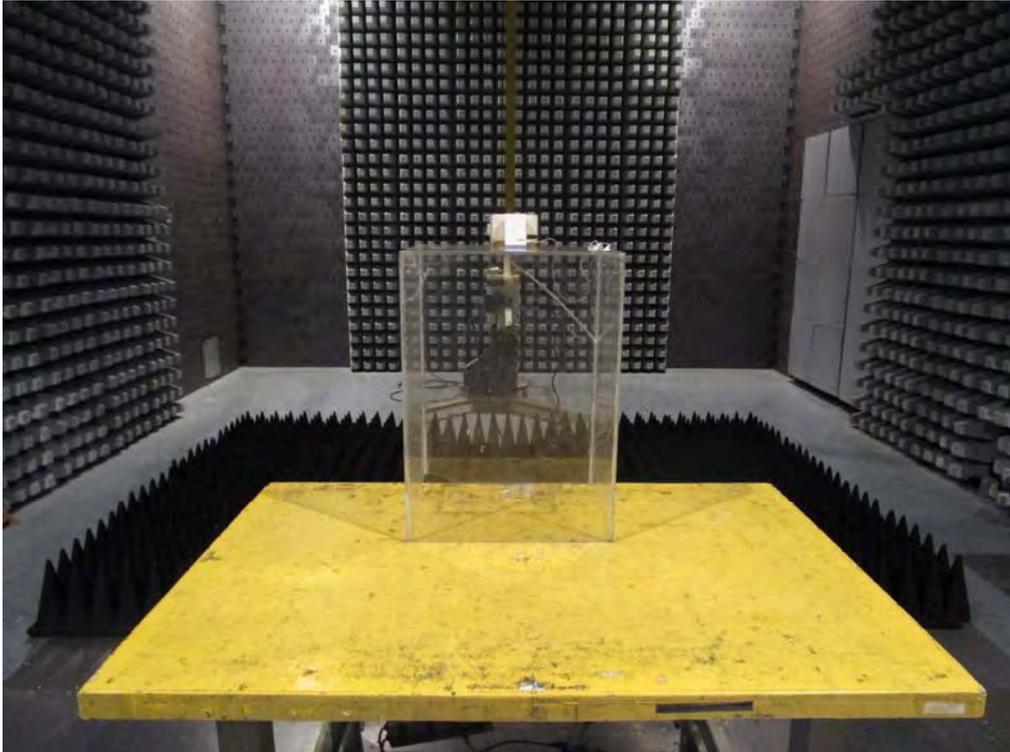
Test Mode : Mode 1: Transmit

Description : Back View of Radiated Emission Test Setup (Bi-Log)



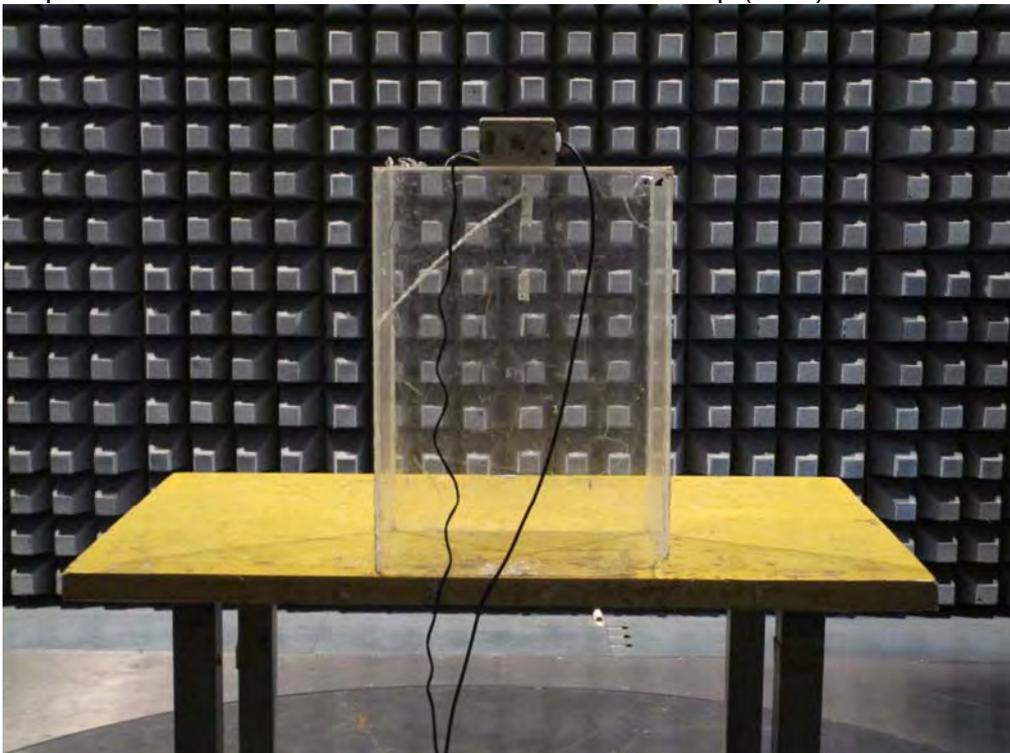
Test Mode : Mode 1: Transmit

Description : Front View of Radiated Emission Test Setup (Horn)



Test Mode : Mode 1: Transmit

Description : Back View of Radiated Emission Test Setup (Horn)



Attachment 2

➤ **EUT External Photograph**

(1) EUT Photo



(2) EUT Photo



(3) EUT Photo



(4) EUT Photo



Attachment 3

➤ **EUT Internal Photograph**

(1) EUT Photo (Without heat sink holes)



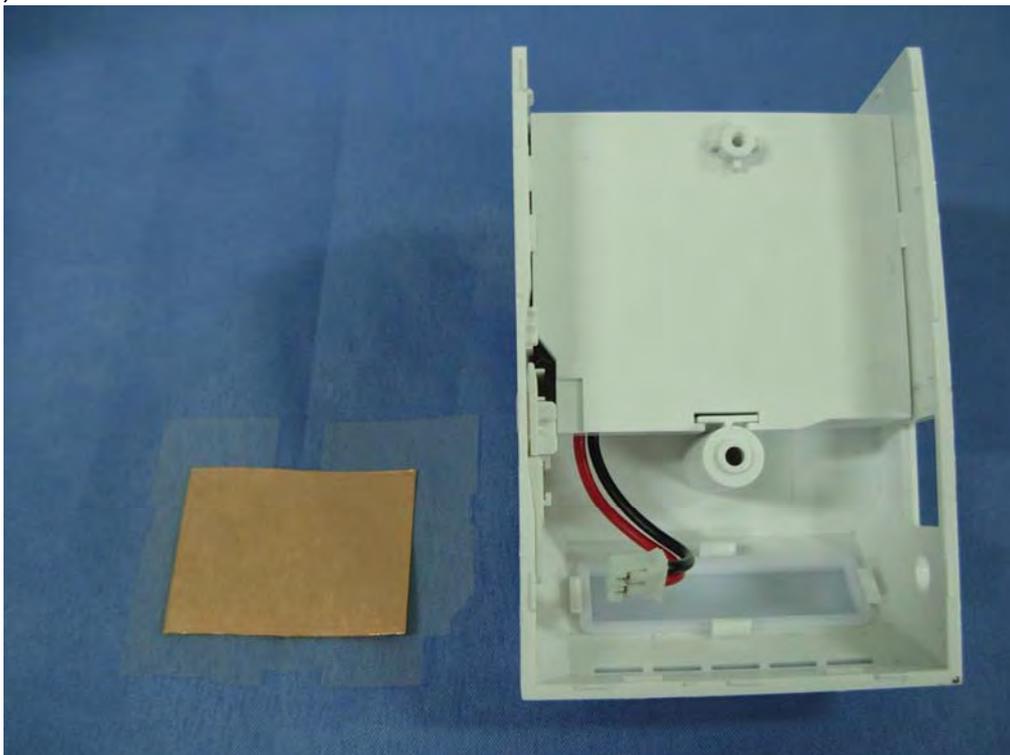
(2) EUT Photo



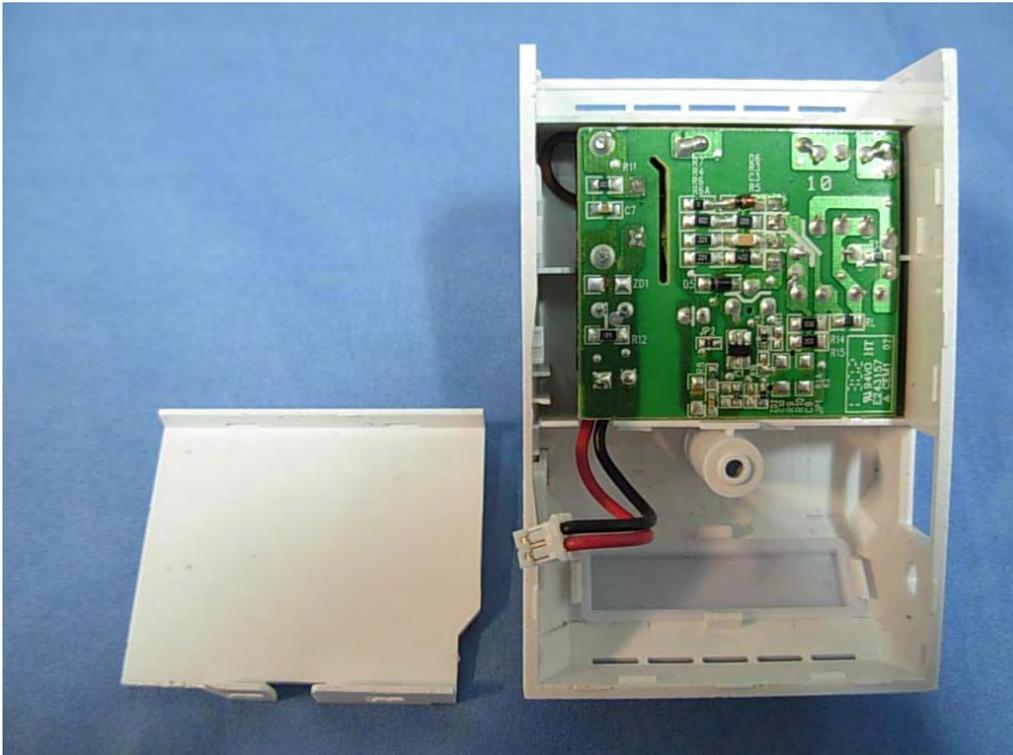
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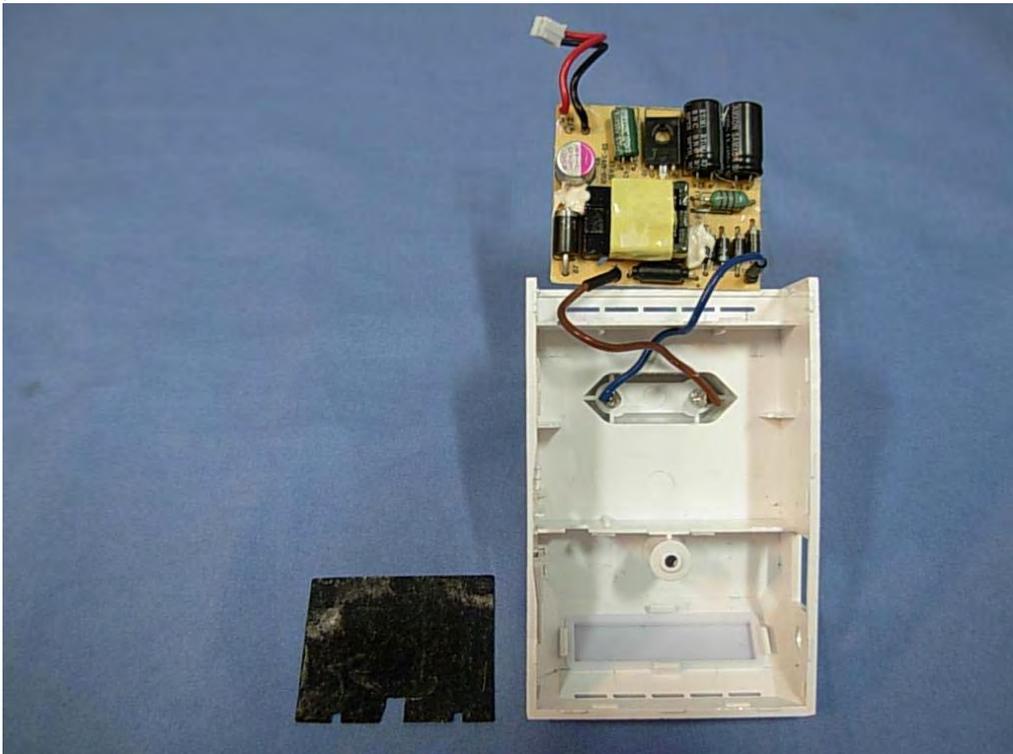
(4) EUT Photo



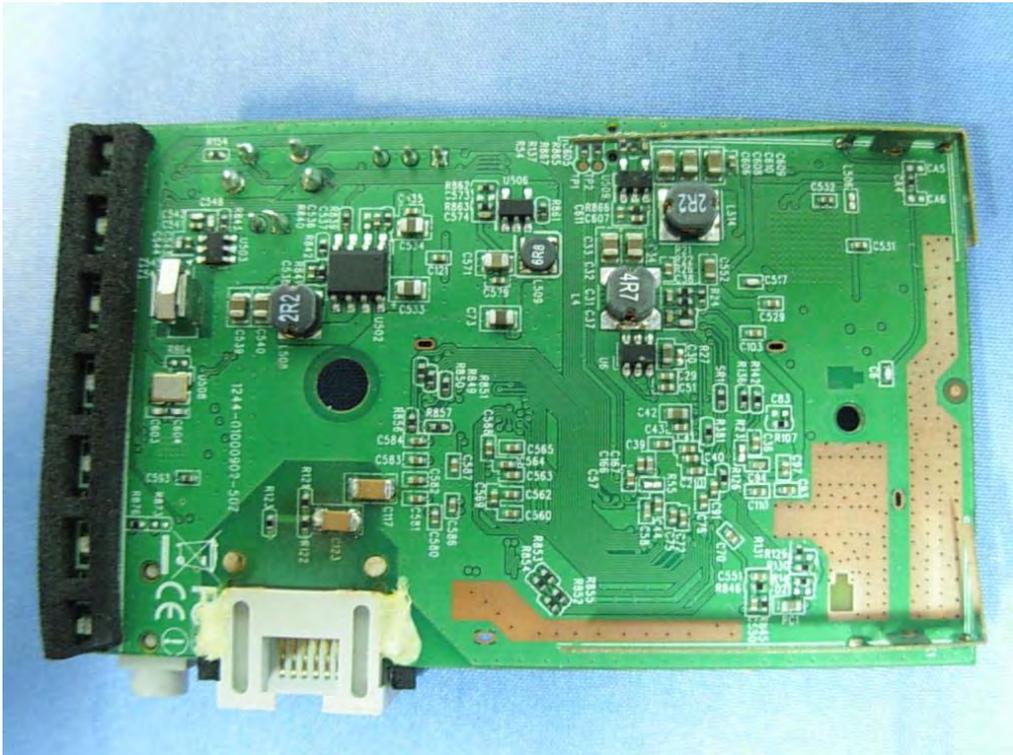
(5) EUT Photo



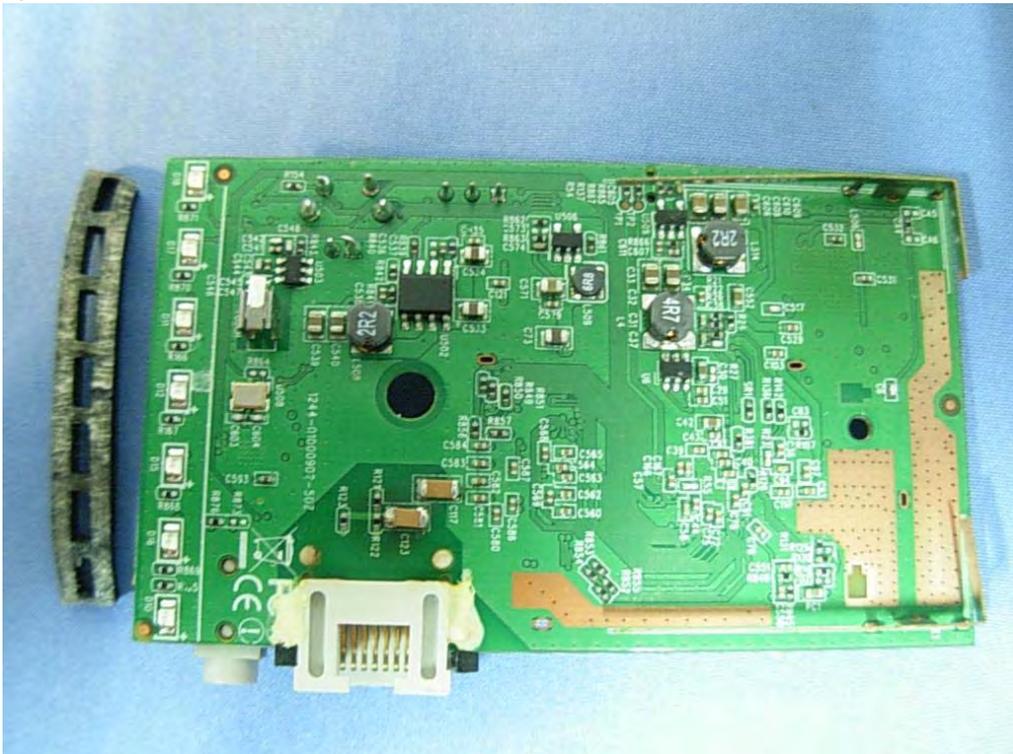
(6) EUT Photo



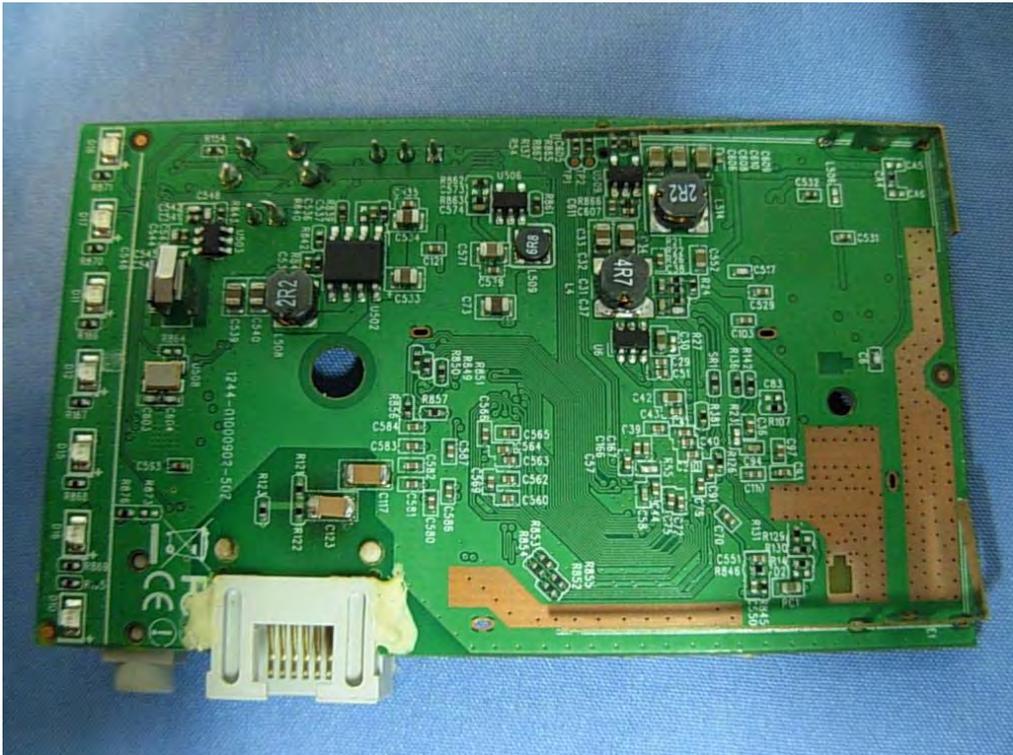
(9) EUT Photo



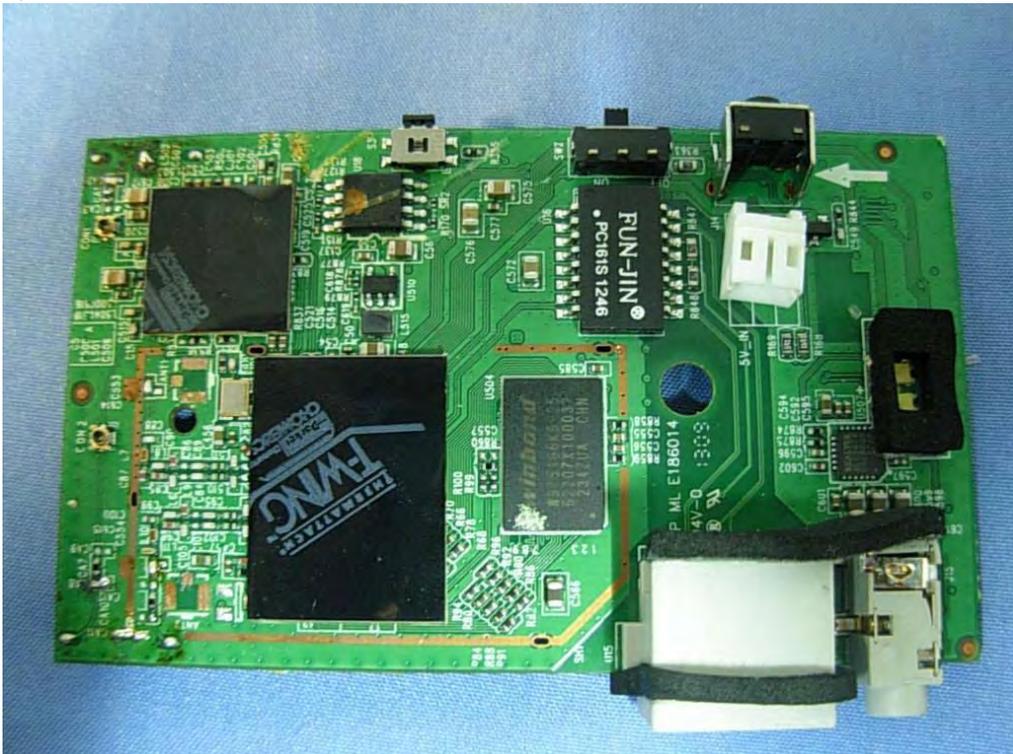
(10) EUT Photo



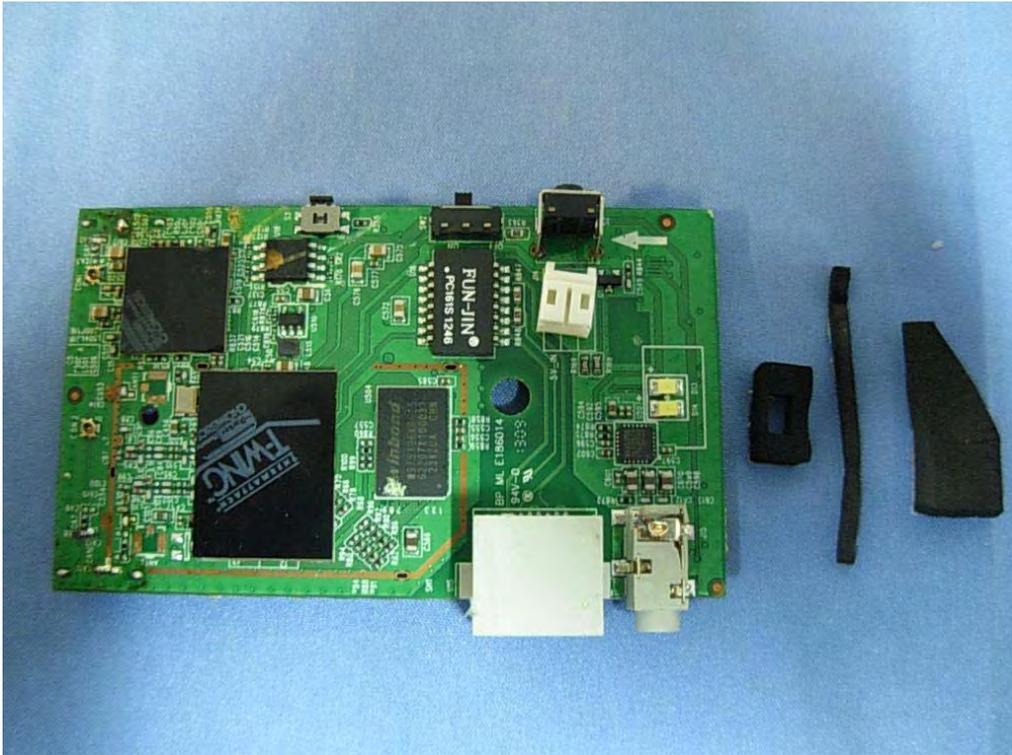
(11) EUT Photo



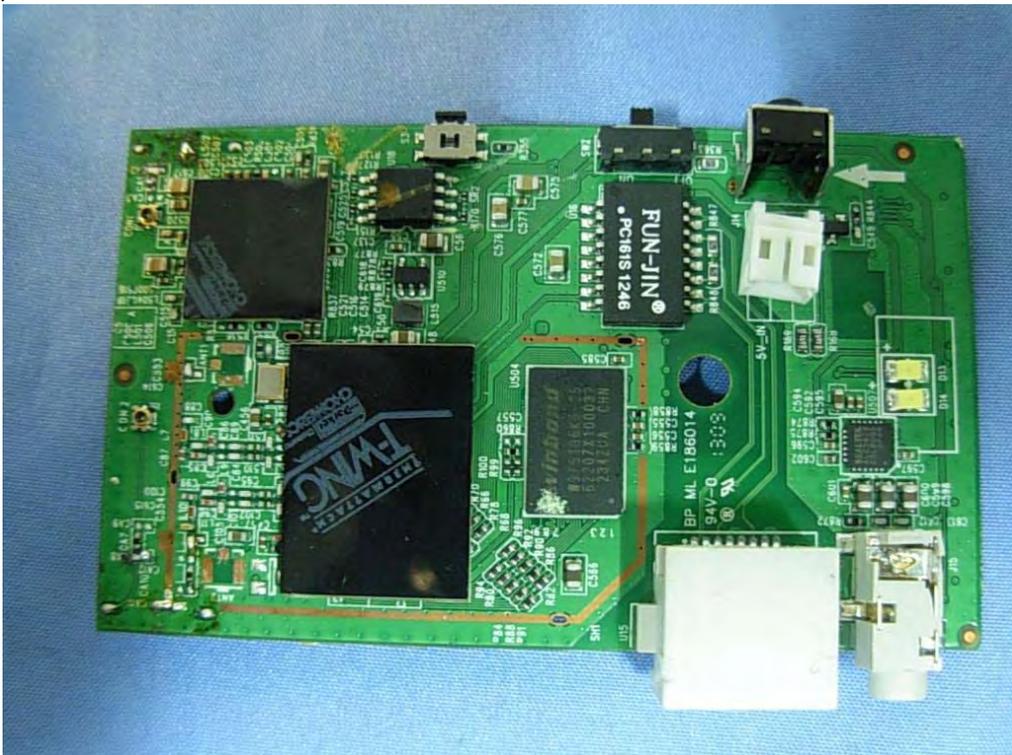
(12) EUT Photo



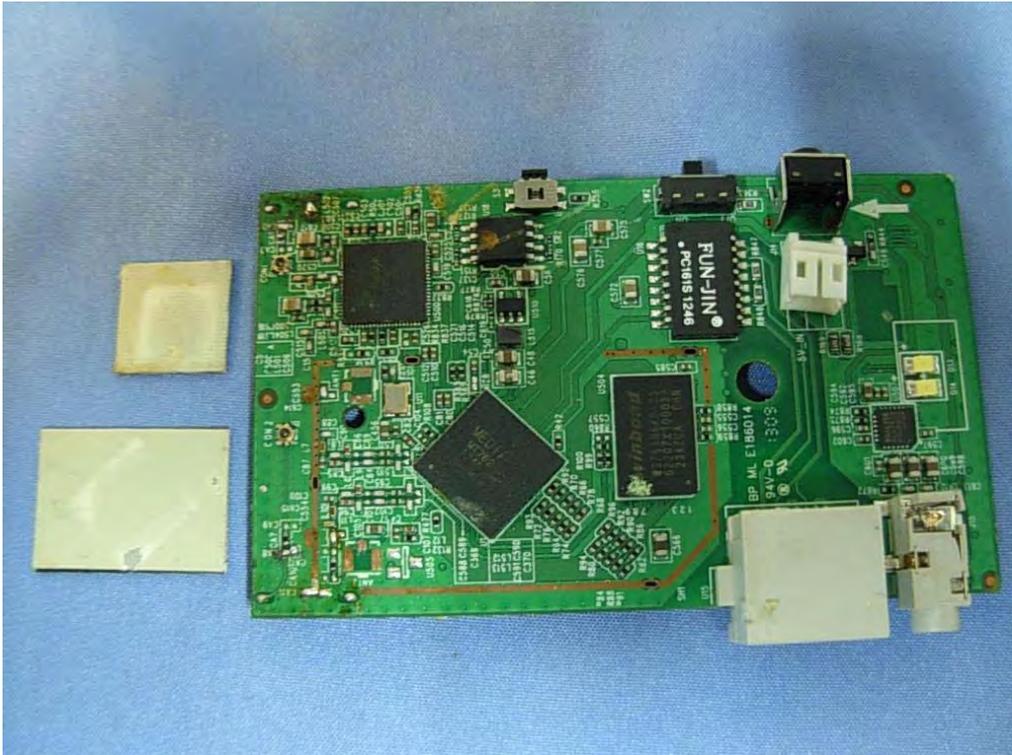
(13) EUT Photo



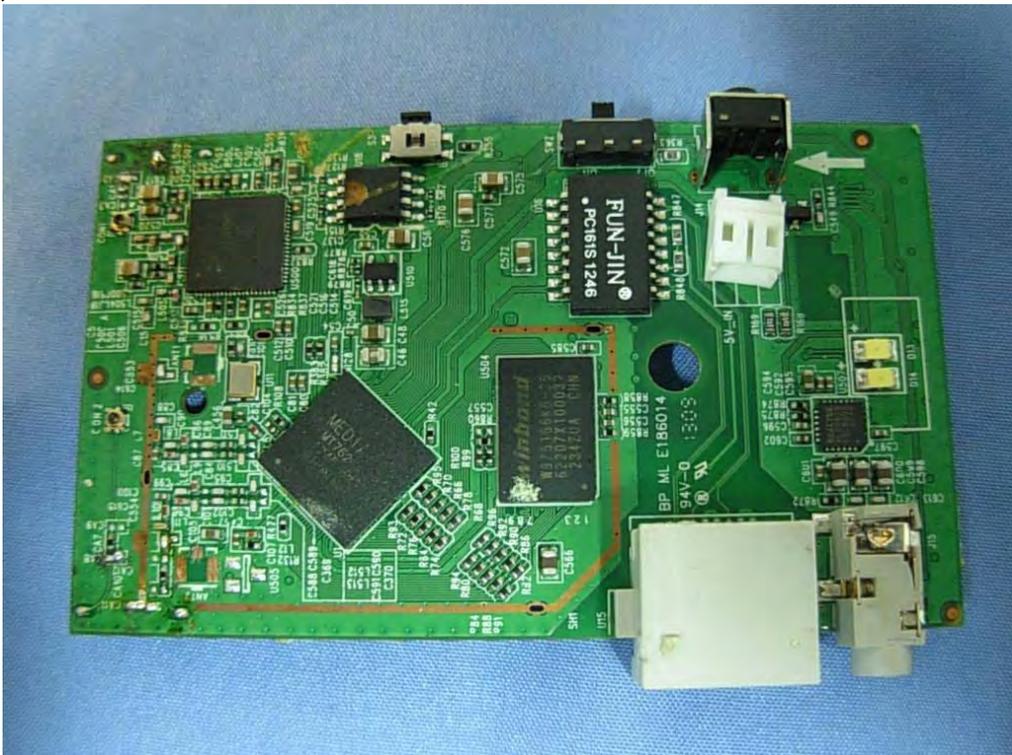
(14) EUT Photo



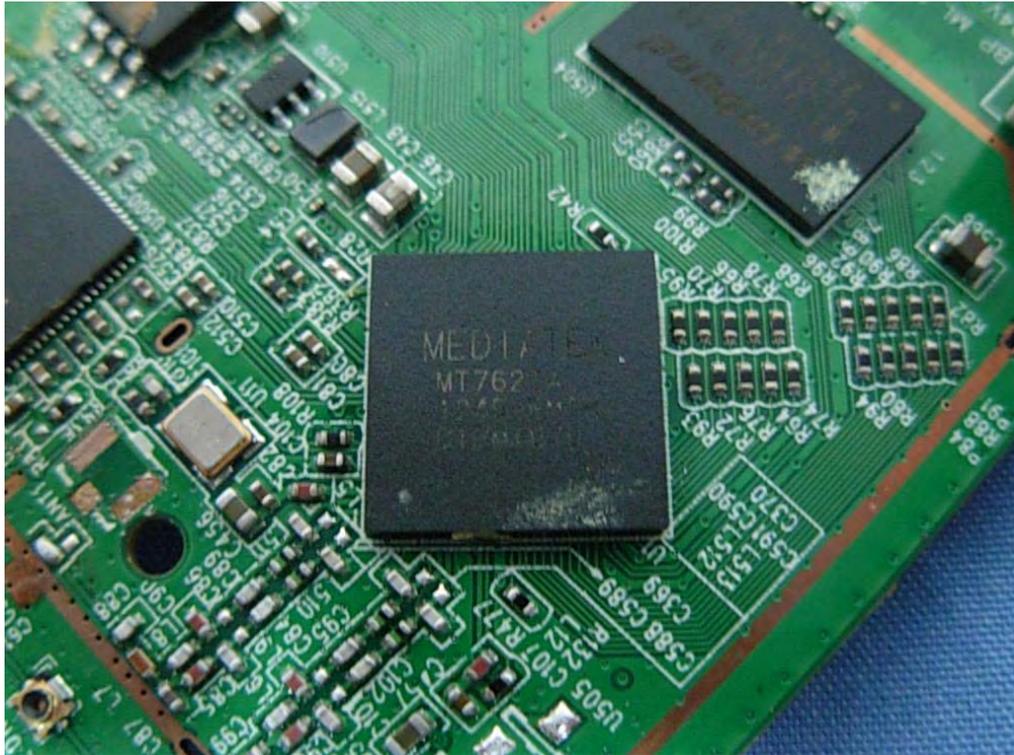
(15) EUT Photo



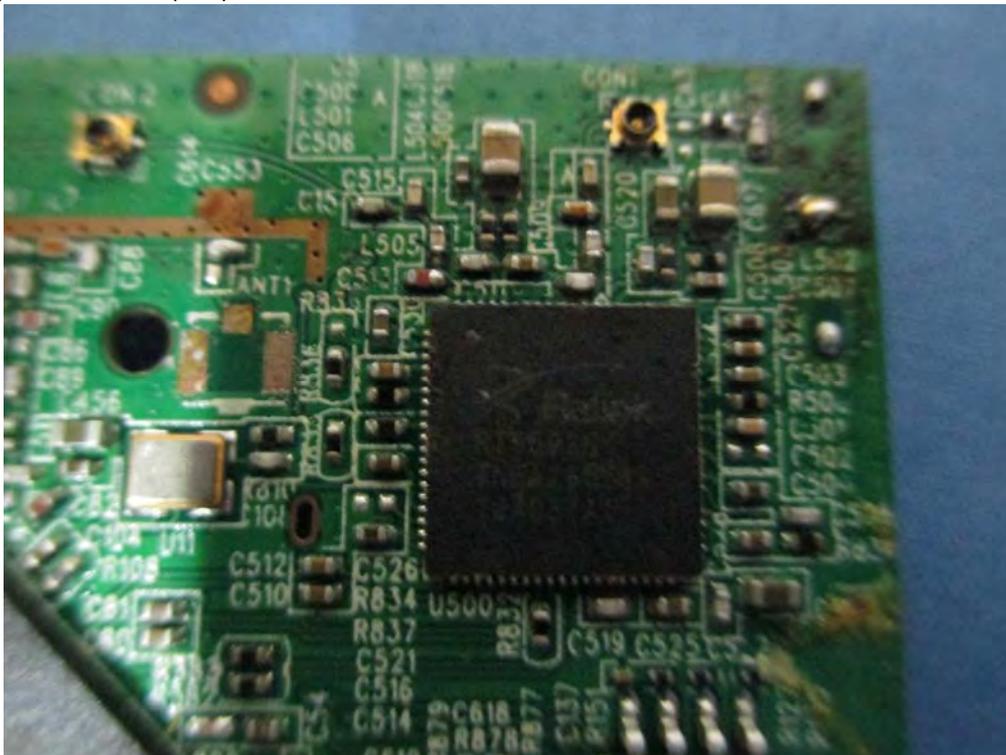
(16) EUT Photo



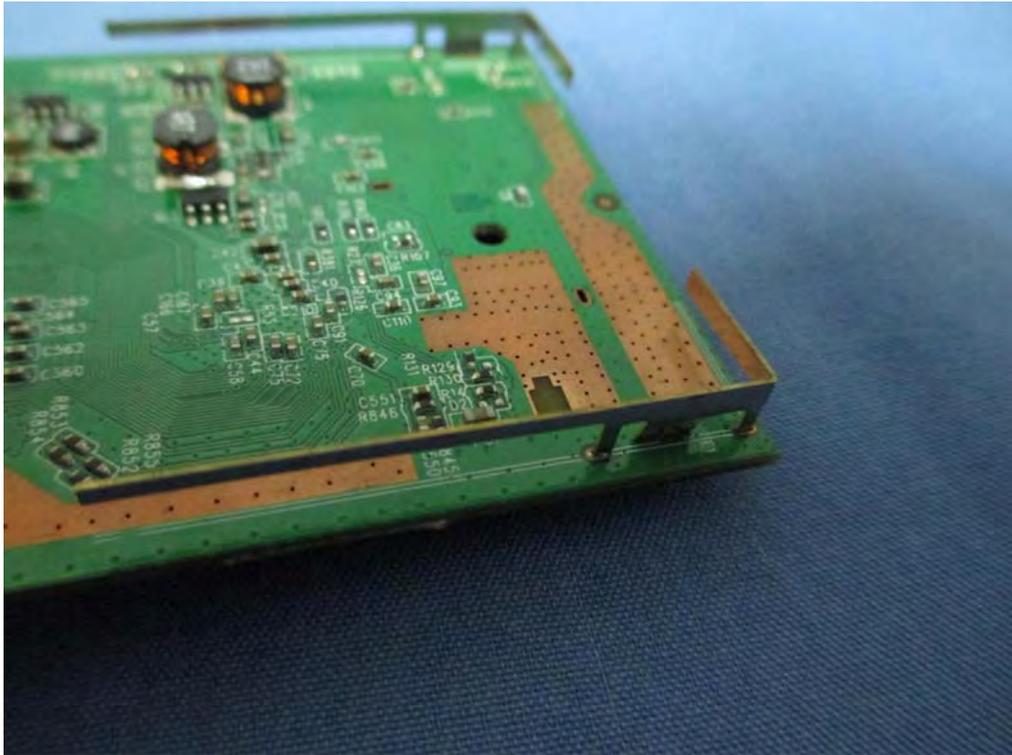
(17) EUT Photo (MB)



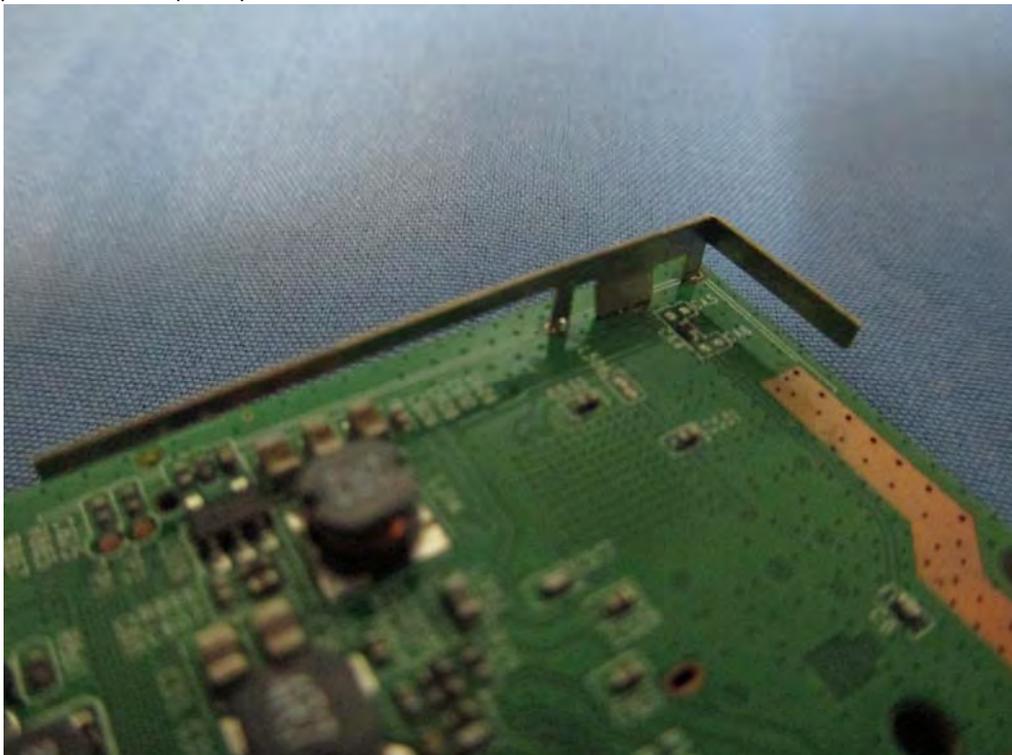
(18) EUT Photo (MB)



(19) EUT Photo (ANT)



(20) EUT Photo (ANT)



(21) EUT Photo (With heat sink holes)



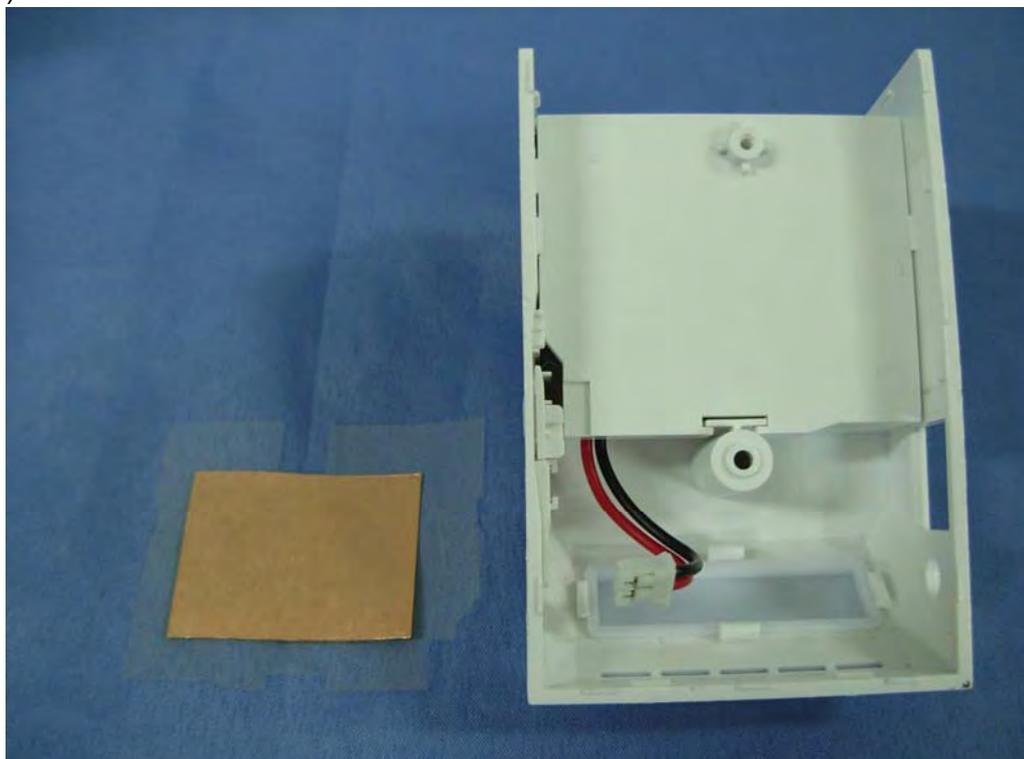
(22) EUT Photo



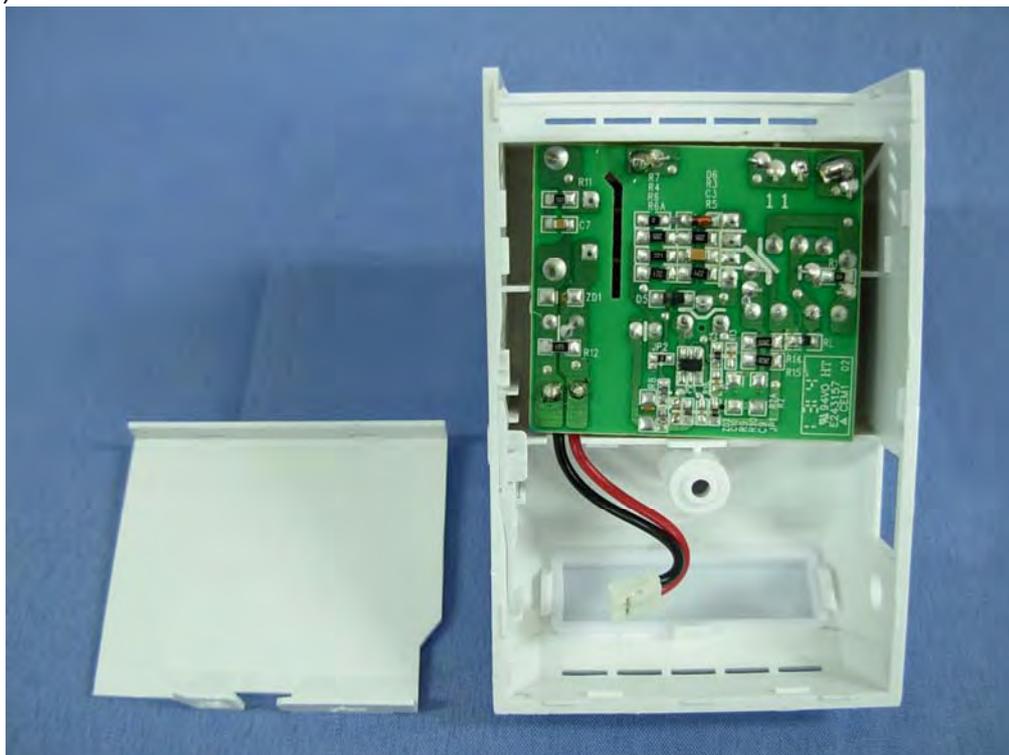
(23) EUT Photo



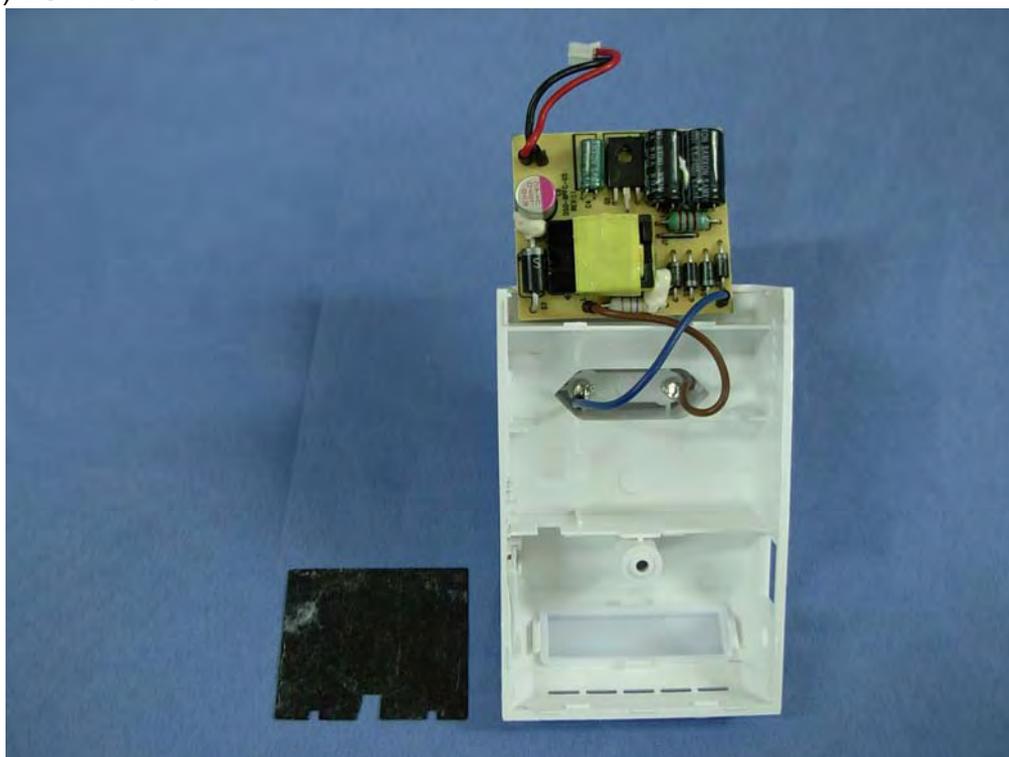
(24) EUT Photo



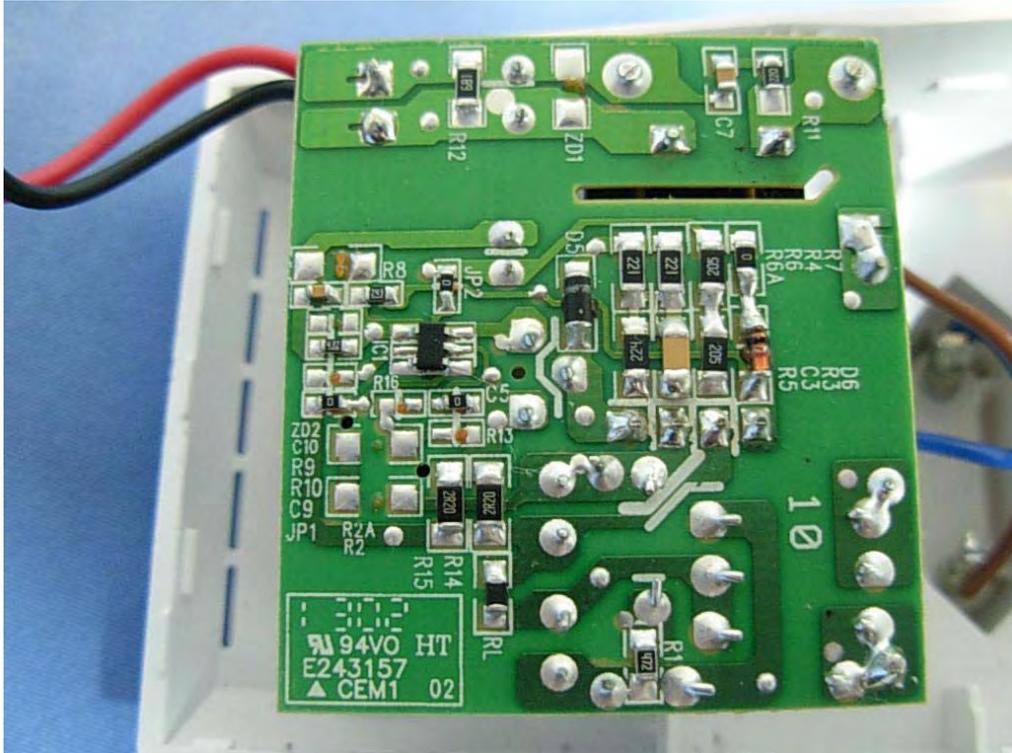
(25) EUT Photo



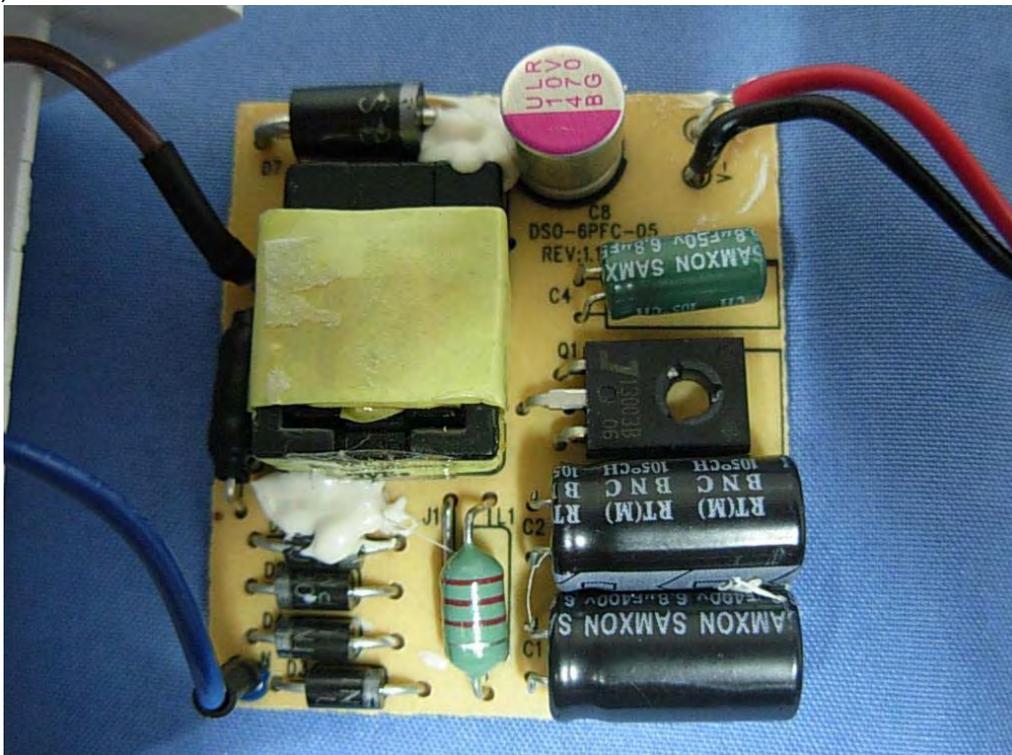
(26) EUT Photo



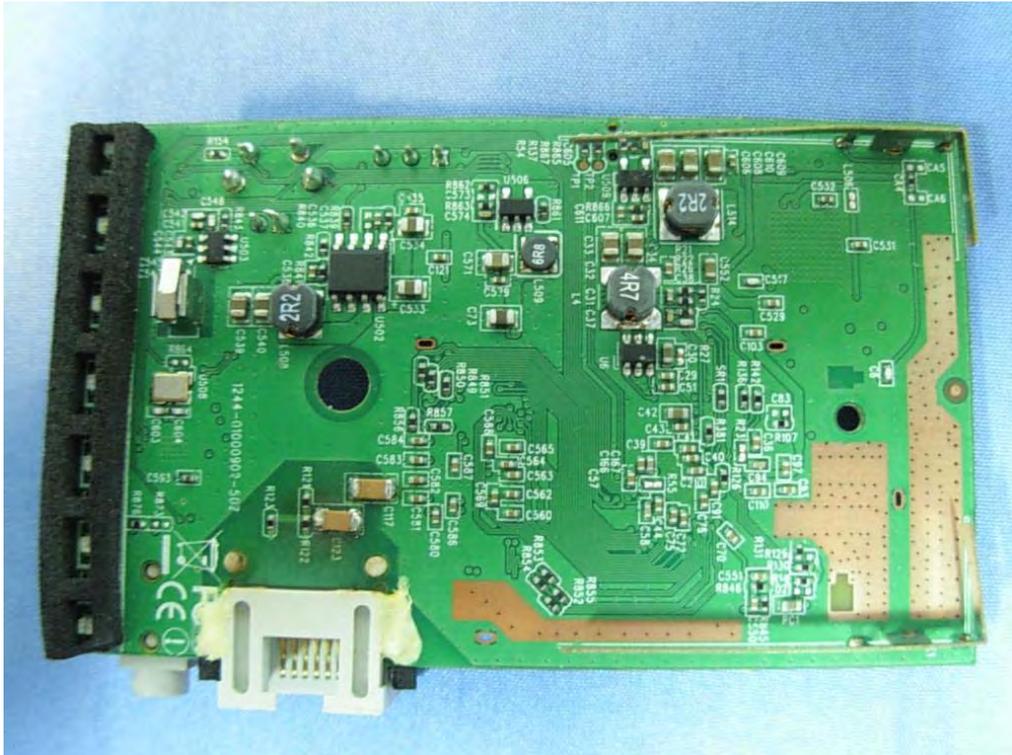
(27) EUT Photo



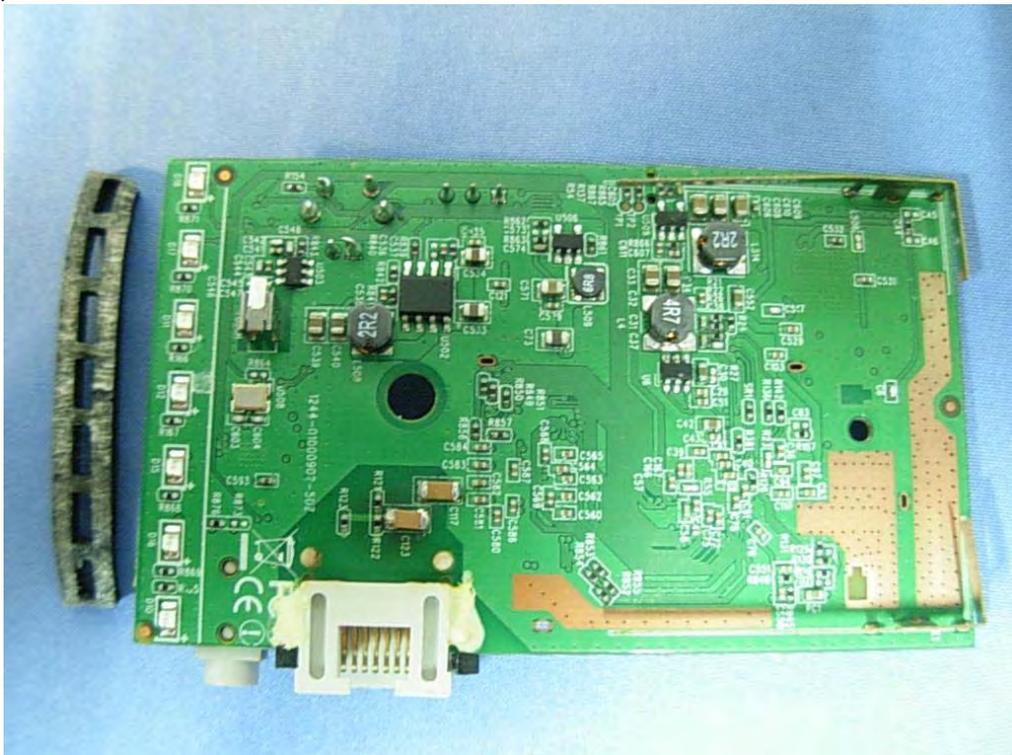
(28) EUT Photo



(29) EUT Photo



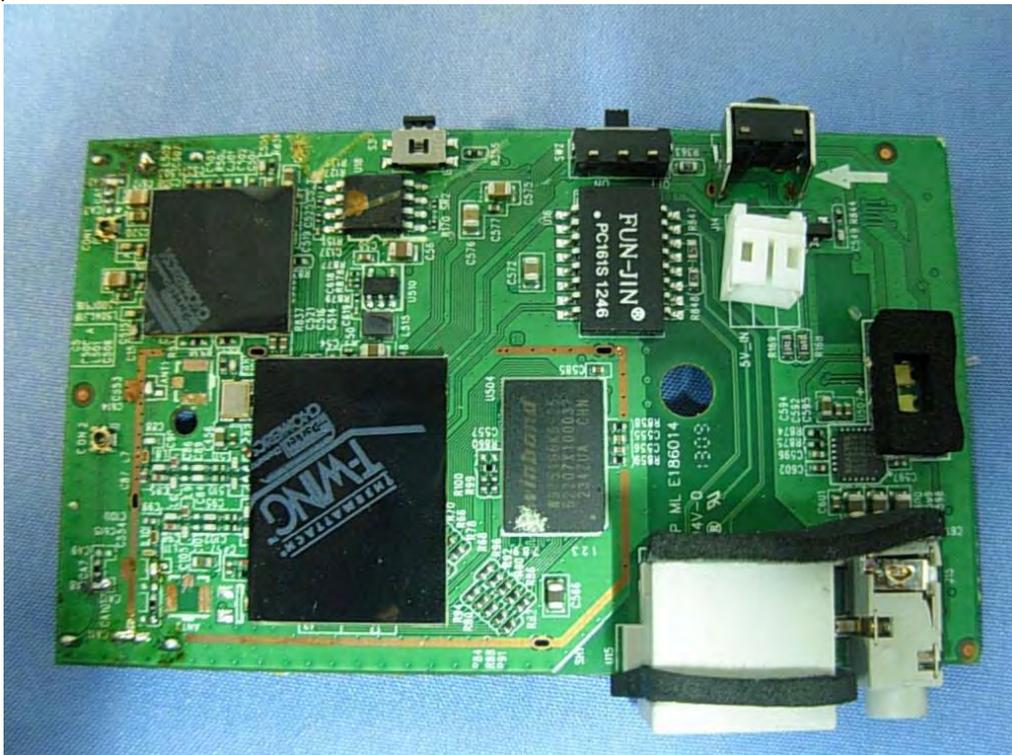
(30) EUT Photo



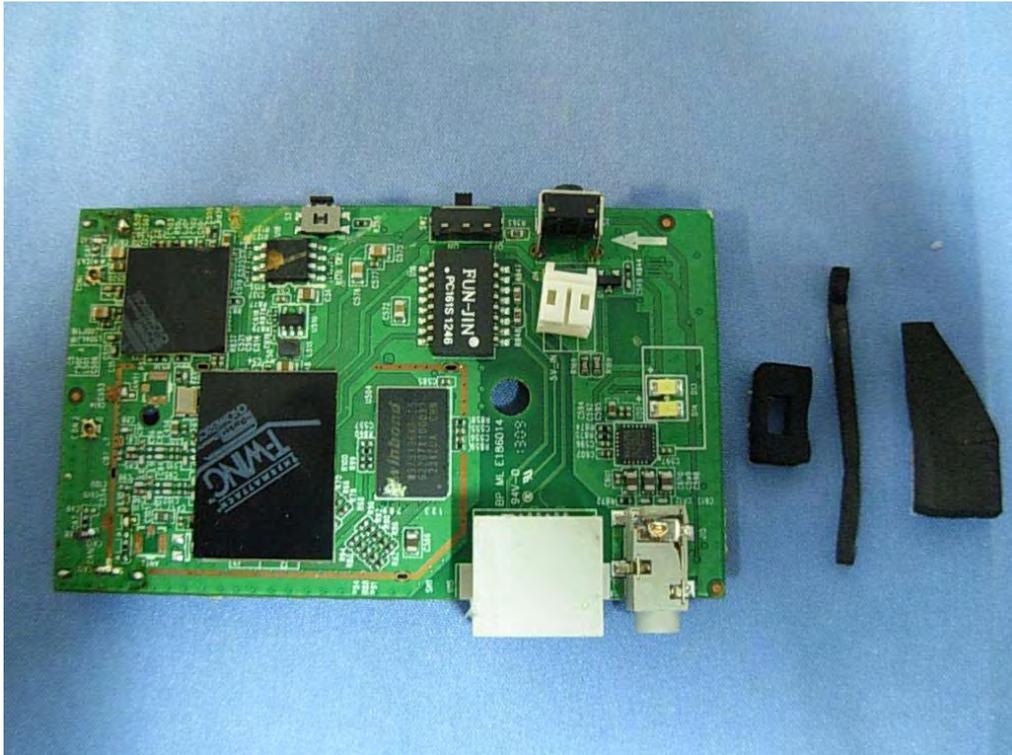
(31) EUT Photo



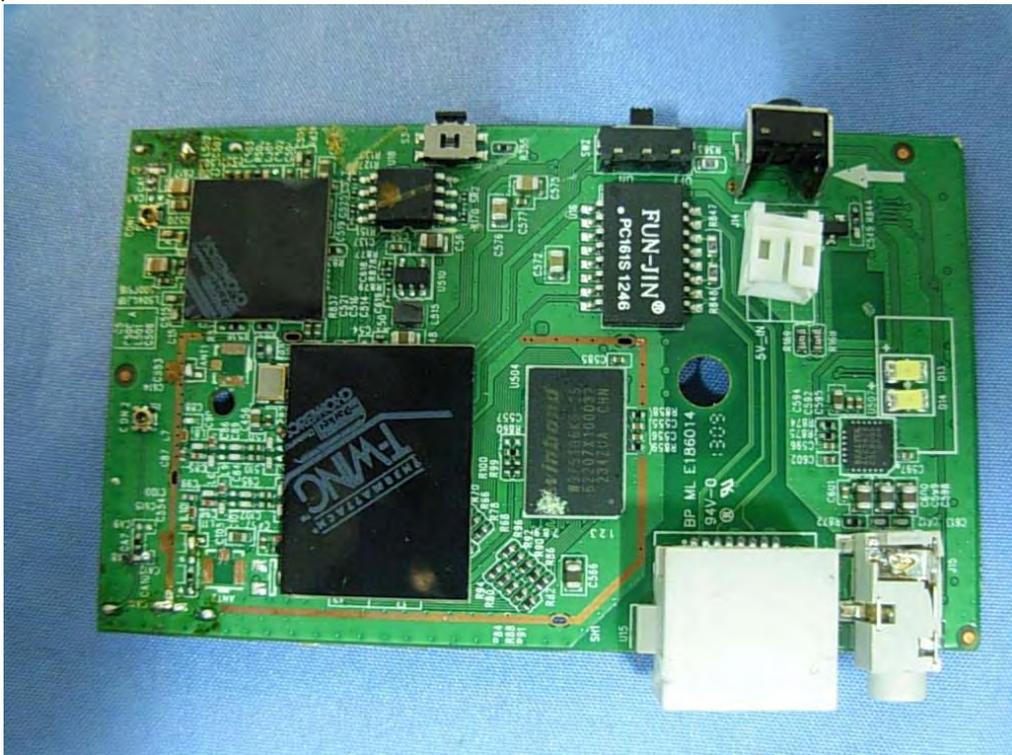
(32) EUT Photo



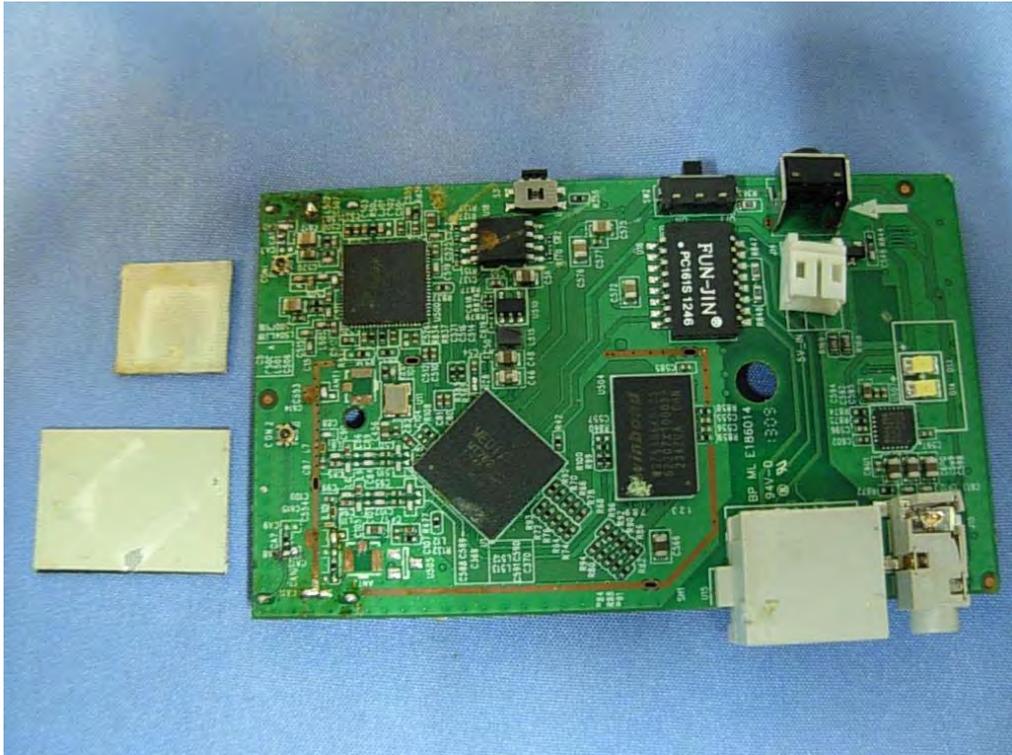
(33) EUT Photo



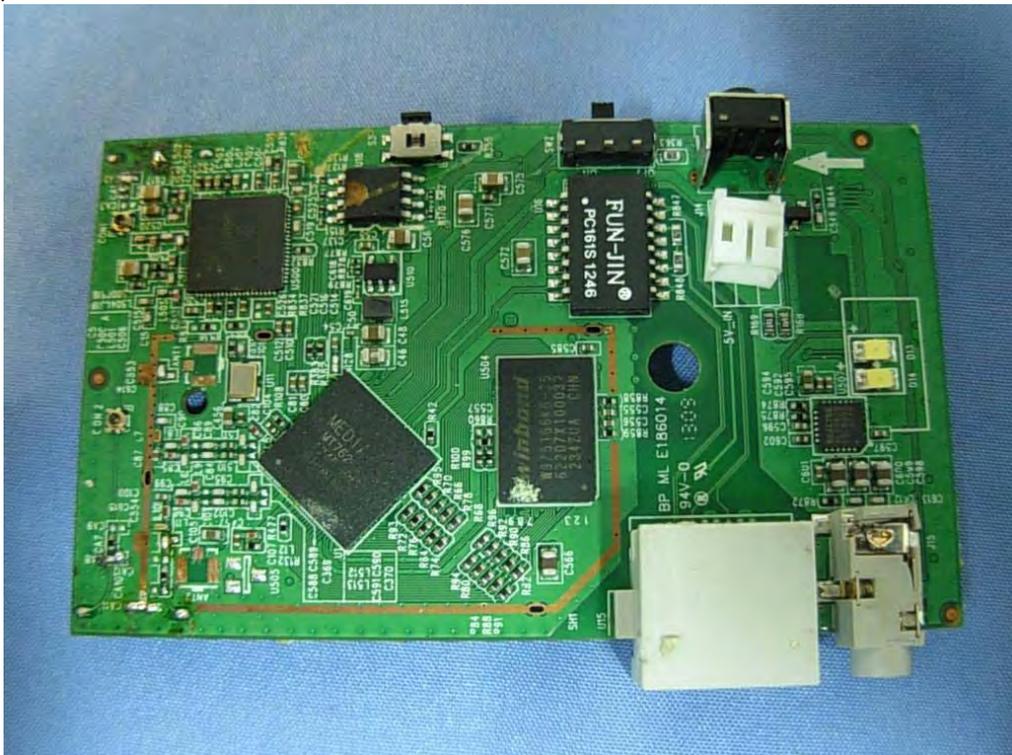
(34) EUT Photo



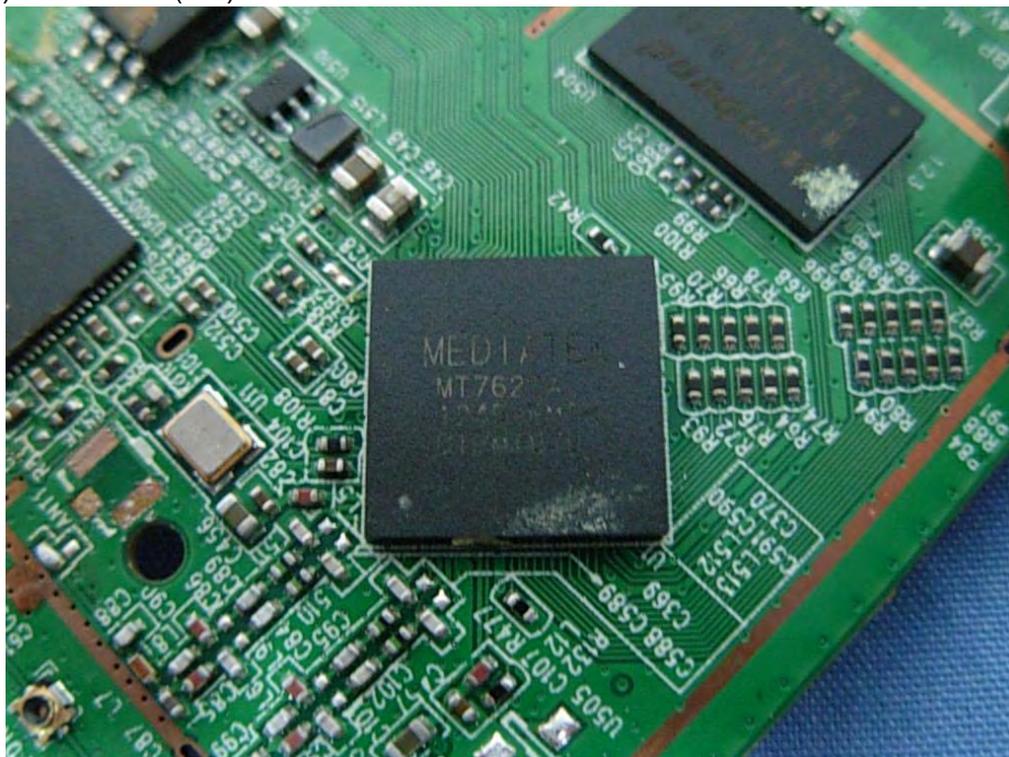
(35) EUT Photo



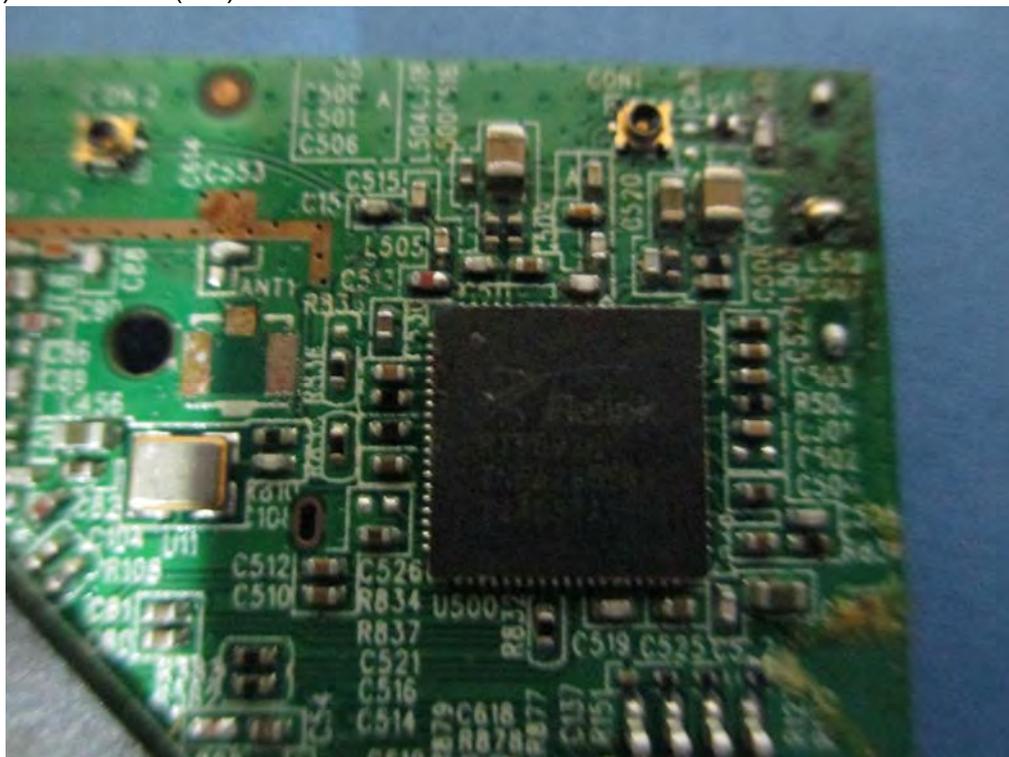
(36) EUT Photo



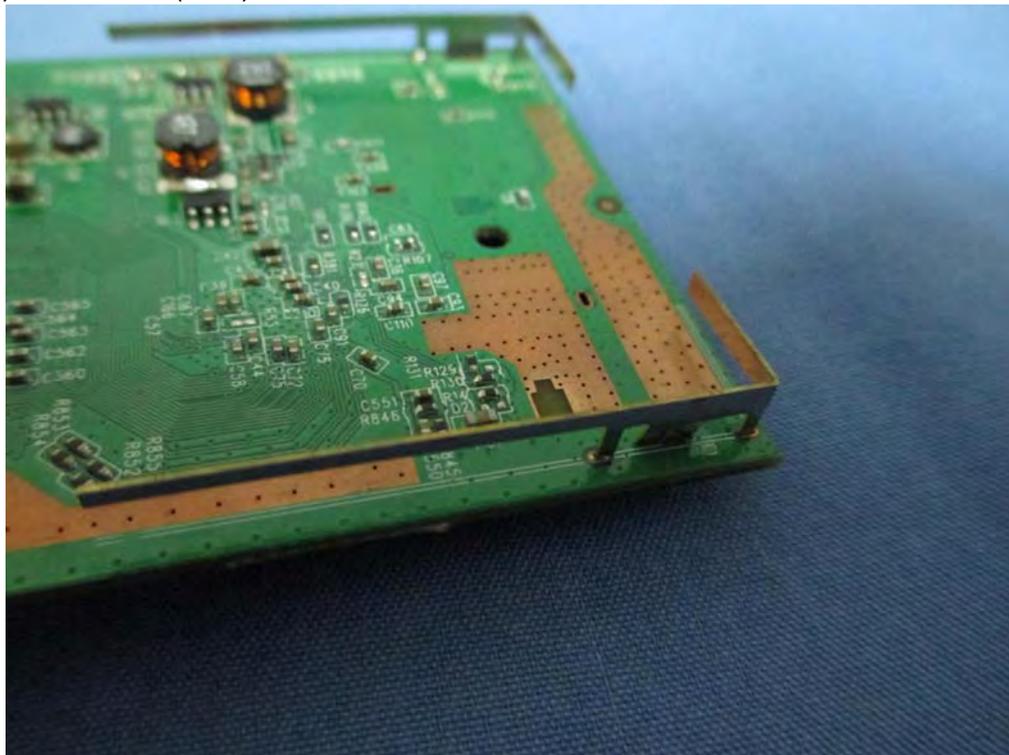
(37) EUT Photo (MB)



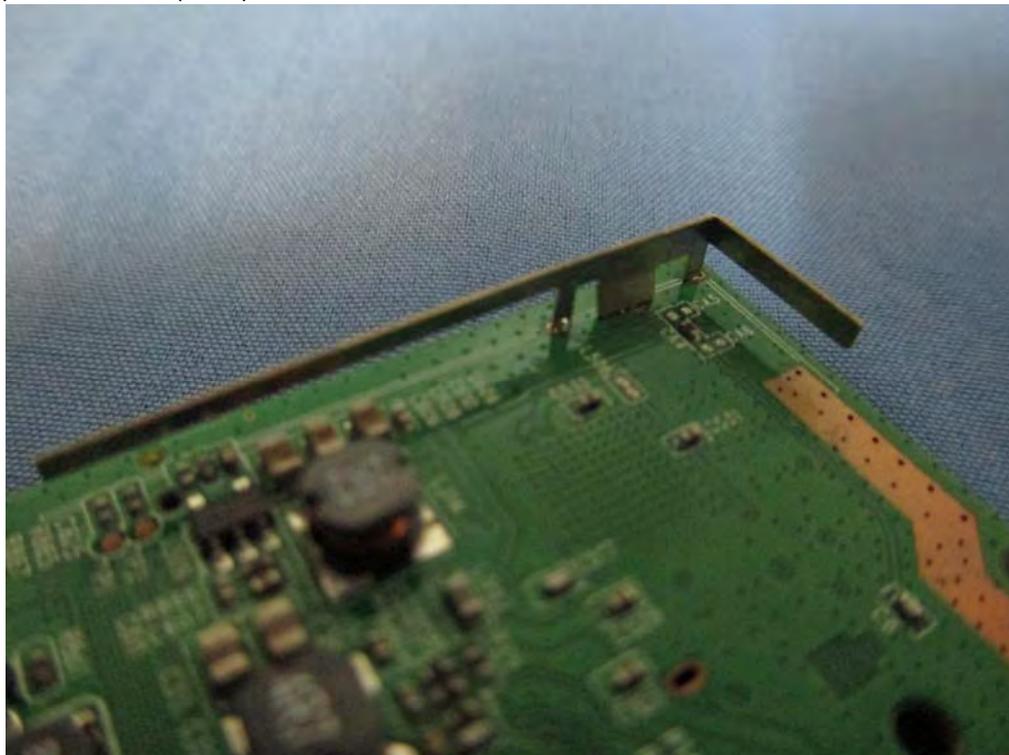
(38) EUT Photo (MB)



(39) EUT Photo (ANT)



(40) EUT Photo (ANT)



(41) EUT Photo (Adapter)



Attachment 4

- **Original Report**