

FCC Test Report

Product Name : Dual-band Wireless Range Extender
Trade Name : ASUS
Model No. : RP-AC68U
FCC ID. : MSQ-RP0S01

Applicant : ASUSTeK COMPUTER INC.
Address : 4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan

Date of Receipt : May 15, 2015
Issued Date : Sep. 24, 2015
Report No. : 1560497R-RFUSP39V00
Report Version : V1.0



The test results relate only to the samples tested.
The test report shall not be reproduced except in full without the written approval of QuieTek Corporation.

Test Report Certification

Issued Date : Sep. 24, 2015

Report No. : 1560497R-RFUSP39V00



Product Name : Dual-band Wireless Range Extender
Applicant : ASUSTeK COMPUTER INC.
Address : 4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan
Manufacturer : (1) ASKEY COMPUTER CORPORATION
(2) ASKEY TECHNOLOGY (JIANG SU) LTD.
Model No. : RP-AC68U
FCC ID. : MSQ-RP0S01
EUT Voltage : AC 100-240V, 50-60Hz
Testing Voltage : AC 120V/60Hz
Trade Name : ASUS
Applicable Standard : FCC CFR Title 47 Part 15 Subpart C Section 15.247: 2014
ANSI C63.10: 2013
Test Lab : QuieTek Hsin Chu Laboratory
Test Result : Complied

The test results relate only to the samples tested.

The test report shall not be reproduced except in full without the written approval of QuieTek Corporation.

Documented By :

(Carol Tsai / Engineering Adm. Specialist)

Tested By :

(Jimmie Liu / Senior Engineer)

Approved By :

(Roy Wang / Director Manager)

Revision History

Report No.	Version	Description	Issued Date
1560497R-RFUSP39V00	Rev. 0.1	Initial issue of report	Sep. 24, 2015

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:

HsinChu Testing Laboratory:

No.75-2, 3rd Lin, Wangye Keng, Yonghxing Tsuen, Qionglin Shiang, Hsinchu County 307, Taiwan, R.O.C.

TEL:+886-3-592-8858 / FAX:+886-3-592-8859

E-Mail : service@quietek.com

LinKou Testing Laboratory:

No.5-22, Ruishukeng, Linkou Dist., New Taipei City 24451, Taiwan, R.O.C.

TEL : 886-2-8601-3788 / FAX : 886-2-8601-3789

E-Mail : service@quietek.com

TABLE OF CONTENTS

Description	Page
1. General Information.....	8
1.1. EUT Description	8
1.2. Test Mode	16
1.3. Tested System Details	17
1.4. Configuration of tested System	17
1.5. EUT Exercise Software	18
1.6. Test Facility.....	19
2. Conducted Emission	20
2.1. Test Equipment.....	20
2.2. Test Setup	20
2.3. Limits	21
2.4. Test Procedure	21
2.5. Test Specification.....	21
2.6. Uncertainty	21
2.7. Test Result.....	22
3. Peak Power Output	30
3.1. Test Equipment.....	30
3.2. Test Setup	30
3.3. Test procedures.....	30
3.4. Limits	30
3.5. Test Specification.....	30
3.6. Uncertainty	30
3.7. Test Result.....	31
4. Radiated Emission	179
4.1. Test Equipment.....	179
4.2. Test Setup	180
4.3. Limits	181
4.4. Test Procedure	181
4.5. Test Specification.....	181
4.6. Uncertainty	181
4.7. Test Result.....	182
5. RF antenna conducted test	274
5.1. Test Equipment.....	274

5.2.	Test Setup	274
5.3.	Limits	275
5.4.	Test Procedure	275
5.5.	Test Specification.....	275
5.6.	Uncertainty	275
5.7.	Test Result.....	276
6.	Radiated Emission Band Edge.....	380
6.1.	Test Equipment.....	380
6.2.	Test Setup	380
6.3.	Limits	381
6.4.	Test Procedure	381
6.5.	Test Specification.....	381
6.6.	Uncertainty	381
6.7.	Test Result.....	382
7.	DTS Bandwidth.....	490
7.1.	Test Equipment.....	490
7.2.	Test Setup	490
7.3.	Test Procedures	490
7.4.	Limits	490
7.5.	Test Specification.....	490
7.6.	Uncertainty	490
7.7.	Test Result.....	491
8.	Occupied Bandwidth.....	554
8.1.	Test Equipment.....	554
8.2.	Test Setup	554
8.3.	Test Procedures	554
8.4.	Limits	554
8.5.	Test Specification.....	554
8.6.	Uncertainty	554
8.7.	Test Result.....	555
9.	Power Density	618
9.1.	Test Equipment.....	618
9.2.	Test Setup	618
9.3.	Limits	618
9.4.	Test Procedures	618

9.5.	Test Specification.....	618
9.6.	Uncertainty	618
9.7.	Test Result.....	619
Attachment 1...		731
	Test Setup Photograph.....	731
Attachment 2...		736
	EUT External Photograph.....	736
Attachment 3...		740
	EUT Internal Photograph.....	740

1. General Information

1.1. EUT Description

Product Name	Dual-band Wireless Range Extender	
Product Type	WLAN(3TX,4RX)	
Trade Name	ASUS	
Model No.	RP-AC68U	
Frequency Range/ Channel Number	IEEE 802.11b/g/ IEEE 802.11n (20MHz)_2.4GHz	2412~2462MHz / 11 Channels
	IEEE 802.11n (40MHz)_2.4GHz	2422~2452MHz / 7 Channels
	IEEE 802.11a/ IEEE 802.11n (20MHz)_5.8GHz / IEEE 802.11ac (20MHz)	5745~5825MHz / 5 Channels
	IEEE 802.11n (40MHz)_5.8GHz / IEEE 802.11ac (40MHz)	5755~5795MHz / 2 Channels
	IEEE 802.11ac (80MHz)	5775~5775MHz / 1 Channel
Type of Modulation	IEEE 802.11b	Direct Sequence Spread Spectrum
	IEEE 802.11a/g/n/ac	Orthogonal Frequency Division Multiplexing
Data Speed	IEEE 802.11b	1, 2, 5.5, 11Mbps
	IEEE 802.11a/g	6, 9, 18, 24, 36, 48,54Mbps
	IEEE 802.11n	Support a subset of the combination of GI, MCS 0~MCS 23 and bandwidth defined in 802.11n
	IEEE 802.11ac	Support a subset of the combination of GI, MCS 0~MCS 9 and bandwidth defined in 802.11ac
Antenna Gain	Rx (chain A) 120 mm : 2.4G: 6.08 dBi, 5 G: 6.23 dBi Tx/Rx Ant0 (chain B) 225 mm : 2.4G: 3.57 dBi, 5 G: 4.6 dBi Tx/Rx Ant1 (chain C) 235 mm : 2.4G: 3.31 dBi, 5 G: 4.45 dBi Tx/Rx Ant2 (chain D) 290 mm : 2.4G: 2.99 dBi, 5 G: 3.56 dBi	
Antenna Type	Dipole antenna	

Component	
LAN Cable	Non-Shielded, 1.8m
Power Adatper	PIE, AD890326 I/P: 100-240V~ 50/60Hz 0.8A O/P : 19V  1.75A Cable Out: Non-Shielded, 1.8m
Power Adatper	Delta, ADP-33AW I/P: 100-240V~1A 50-60Hz O/P : 19V  1.75A Cable Out: Non-Shielded, 1.8m

ANT-TX / RX & Bandwidth

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

(3TX / 4RX)



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

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
16	BPSK	1/2	1	156	324	78	162	19.5	40.5	21.7	45.0
17	QPSK	1/2	2	312	648	156	324	39.0	81.0	43.3	90.0
18	QPSK	3/4	2	312	648	234	486	58.5	121.5	65.0	135.0
19	16-QAM	1/2	4	624	1296	312	648	78.0	162.0	86.7	180.0
20	16-QAM	3/4	4	624	1296	468	972	117.0	243.0	130.0	270.0
21	64-QAM	2/3	6	936	1944	624	1296	156.0	324.0	173.3	360.0
22	64-QAM	3/4	6	936	1944	702	1458	175.5	364.5	195.0	405.0
23	64-QAM	5/6	6	936	1944	780	1620	195.0	405.0	216.7	450.0

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

Table 3 – MCS parameters for TX Antenna number = 3

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

Draft IEEE 802.11ac Data Rate

Spatial Streams (Note1)	MCS Index	Modulation type	Coding rate	Data Rate(Mb/s)							
				20 MHz		40 MHz		80 MHz		160 MHz	
				Guard Interval		Guard Interval		Guard Interval		Guard Interval	
				800ns	400ns	800ns	400ns	800ns	400ns	800ns	400ns
1	0	BPSK	1/2	6.5	7.2	13.5	15	29.3	32.5	58.5	65
	1	QPSK	1/2	13	14.4	27	30	58.5	65	117	130
	2	QPSK	3/4	19.5	21.7	40.5	45	87.8	97.5	175.5	195
	3	16-QAM	1/2	26	28.9	54	60	117	130	234	260
	4	16-QAM	3/4	39	43.3	81	90	175.5	195	351	390
	5	64-QAM	2/3	52	57.8	108	120	234	260	468	520
	6	64-QAM	3/4	58.5	65	121.5	135	263.3	292.5	526.5	585
	7	64-QAM	5/6	65	72.2	135	150	292.5	325	585	650
	8	256-QAM	3/4	78	86.7	162	180	351	390	702	780
	9	256-QAM	5/6	N/A	N/A	180	200	390	433.3	780	866.7
2	0	BPSK	1/2	13	14.4	27	30	58.6	65	117	130
	1	QPSK	1/2	26	28.8	54	60	117	130	234	260
	2	QPSK	3/4	39	43.4	81	90	175.6	195	351	390
	3	16-QAM	1/2	52	57.8	108	120	234	260	468	520
	4	16-QAM	3/4	78	86.6	162	180	351	390	702	780
	5	64-QAM	2/3	104	115.6	216	240	468	520	936	1040
	6	64-QAM	3/4	117	130	243	270	526.6	585	1053	1170
	7	64-QAM	5/6	130	144.4	270	300	585	650	1170	1300
	8	256-QAM	3/4	156	173.4	324	360	702	780	1404	1560
	9	256-QAM	5/6	N/A	N/A	360	400	780	866.6	1560	1733.4
3	0	BPSK	1/2	19.5	21.6	40.5	45	87.9	97.5	175.5	195
	1	QPSK	1/2	39	43.2	81	90	175.5	195	351	390
	2	QPSK	3/4	58.5	65.1	121.5	135	263.4	292.5	526.5	585
	3	16-QAM	1/2	78	86.7	162	180	351	390	702	780
	4	16-QAM	3/4	117	129.9	243	270	526.5	585	1053	1170
	5	64-QAM	2/3	156	173.4	324	360	702	780	1404	1560
	6	64-QAM	3/4	175.5	195	364.5	405	789.9	877.5	1579.5	1755
	7	64-QAM	5/6	195	216.6	405	450	877.5	975	1755	1950
	8	256-QAM	3/4	234	260.1	486	540	1053	1170	2106	2340
	9	256-QAM	5/6	N/A	N/A	540	600	1170	1299.9	2340	2600.1

IEEE 802.11b/g & IEEE 802.11n (20MHz) - 2.4GHz

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

IEEE 802.11n (40MHz) - 2.4GHz

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
003	2422 MHz	004	2427 MHz	005	2432 MHz	006	2437 MHz
007	2442 MHz	008	2447 MHz	009	2452 MHz		

IEEE 802.11a & IEEE 802.11n (20MHz) & IEEE 802.11ac (20MHz) - 5GHz

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) & IEEE 802.11ac (40MHz) - 5GHz

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

IEEE 802.11ac (80MHz) - 5GHz

Working Frequency of Each Channel	
Channel	Frequency
155	5775 MHz

Note:

1. This device is a Dual-band Wireless Range Extender including 2.4GHz b/g/n (3x4) and 5GHz a/n/ac (3x4) transmitting and receiving function.
2. These test results on a sample of the device are for the purpose of demonstrating Compliance with Part 15 Subpart C Paragraph 15.247.
3. Regards to the frequency band operation; the lowest 、 middle and highest frequency of channel were selected to perform the test, and then shown on this report.
4. The function of the 5.2GHz transmitting is measured and makes a test report of the report number: 1560497R-RFUSP56V00.
5. This device is a composite device in accordance with Part 15 regulations. The receiving function receiving was tested and its test report number is 1560497R-RFUSP01V00.
- 6.

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_CDD Mode_AD890326 Mode 2: Transmit_Beamforming Mode_AD890326 Mode 3: Transmit_ADP-33AW
----	---

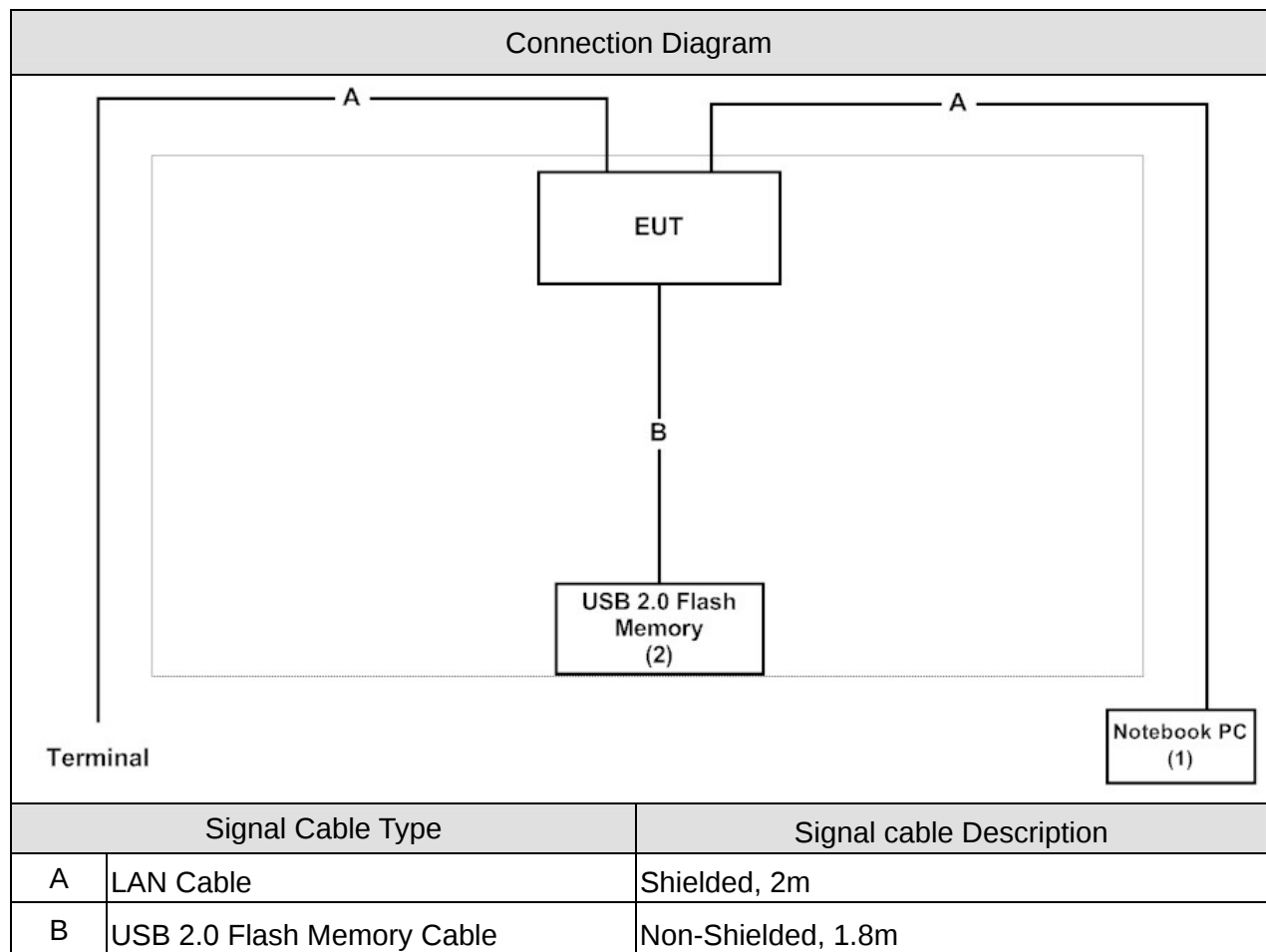
Test Items	Modulation	Channel	Antenna	Result
Conducted Emission	11b	6	0+1+2	Complies
	11ac(80MHz)	155	0+1+2	Complies
Peak Power Output	11a	149/ 157/ 165	0+1+2	Complies
	11b/g	1/ 6/ 11	0+1+2	Complies
	11n(20MHz)	1/ 6/ 11/149/ 157/ 165	0+1+2	Complies
	11n(40MHz)	3 /6 /9 /151/ 159	0+1+2	Complies
	11ac(80MHz)	155	0+1+2	Complies
Radiated Emission	11a	149/ 157/ 165	0+1+2	Complies
	11b/g	1/ 6/ 11	0+1+2	Complies
	11n(20MHz)	1/ 6/ 11/149/ 157/ 165	0+1+2	Complies
	11n(40MHz)	3 /6 /9 /151/ 159	0+1+2	Complies
	11ac(80MHz)	155	0+1+2	Complies
RF antenna conducted test	11a	149/ 157/ 165	0/1/2	Complies
	11b/g	1/ 6/ 11	0/1/2	Complies
	11n(20MHz)	1/ 6/ 11/149/ 157/ 165	0/1/2	Complies
	11n(40MHz)	3 /6 /9 /151/ 159	0/1/2	Complies
	11ac(80MHz)	155	0/1/2	Complies
Radiated Emission Band Edge	11a	149/ 157/ 165	0/1/2	Complies
	11b/g	1/ 6/ 11	0/1/2	Complies
	11n(20MHz)	1/ 6/ 11/149/ 157/ 165	0/1/2	Complies
	11n(40MHz)	3 /6 /9 /151/ 159	0/1/2	Complies
	11ac(80MHz)	155	0/1/2	Complies
Occupied Bandwidth	11a	149/ 157/ 165	0/1/2	Complies
	11b/g	1/ 6/ 11	0/1/2	Complies
	11n(20MHz)	1/ 6/ 11/149/ 157/ 165	0/1/2	Complies
	11n(40MHz)	3 /6 /9 /151/ 159	0/1/2	Complies
	11ac(80MHz)	155	0/1/2	Complies
Power Density	11a	149/ 157/ 165	0+1+2	Complies
	11b/g	1/ 6/ 11	0+1+2	Complies
	11n(20MHz)	1/ 6/ 11/149/ 157/ 165	0+1+2	Complies
	11n(40MHz)	3 /6 /9 /151/ 159	0+1+2	Complies
	11ac(80MHz)	155	0+1+2	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 Notebook PC	ACER	MS2296	LUSCV021391 150332C2000	DoC	Non-Shielded, 2.5m one ferrite core bonded
2 USB 2.0 Flash Memory	Apacer	AH223	N/A	DoC	--

1.4. Configuration of tested System



1.5. EUT Exercise Software

1	Setup the EUT as shown in Section 1.5.
2	Execute MPTool on the EUT.
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 C 15.207 Conducted Emission	15 - 35	20°C
Humidity (%RH)		25 - 75	50%RH
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Peak Power Output	15 - 35	25°C
Humidity (%RH)		25 - 75	45%RH
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Radiated Emission	15 - 35	25°C
Humidity (%RH)		25 - 75	65%RH
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 RF antenna conducted test	15 - 35	25°C
Humidity (%RH)		25 - 75	45%RH
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Band Edge	15 - 35	25°C
Humidity (%RH)		25 - 75	48%RH
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Occupied Bandwidth	15 - 35	25°C
Humidity (%RH)		25 - 75	45%RH
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Power Density	15 - 35	25°C
Humidity (%RH)		25 - 75	45%RH
Barometric pressure (mbar)		860 - 1060	950-1000

2. Conducted Emission

2.1. Test Equipment

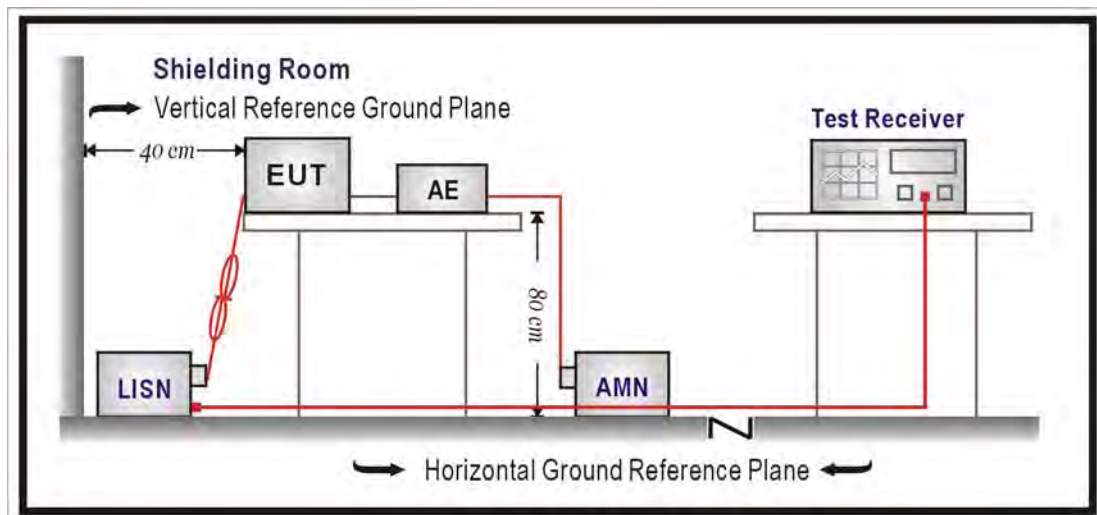
The following test equipments are used during the test:

Conducted Emission / SR2

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Artificial Mains Network	R&S	ENV4200	848411/010	2016/01/25
LISN	R&S	ENV216	100092	2016/08/17
Test Receiver	R&S	ESCS 30	825442/014	2016/07/16

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 and tested according to DTS test procedure of KDB558074 for compliance to FCC 47CFR 15.247 requirements.

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

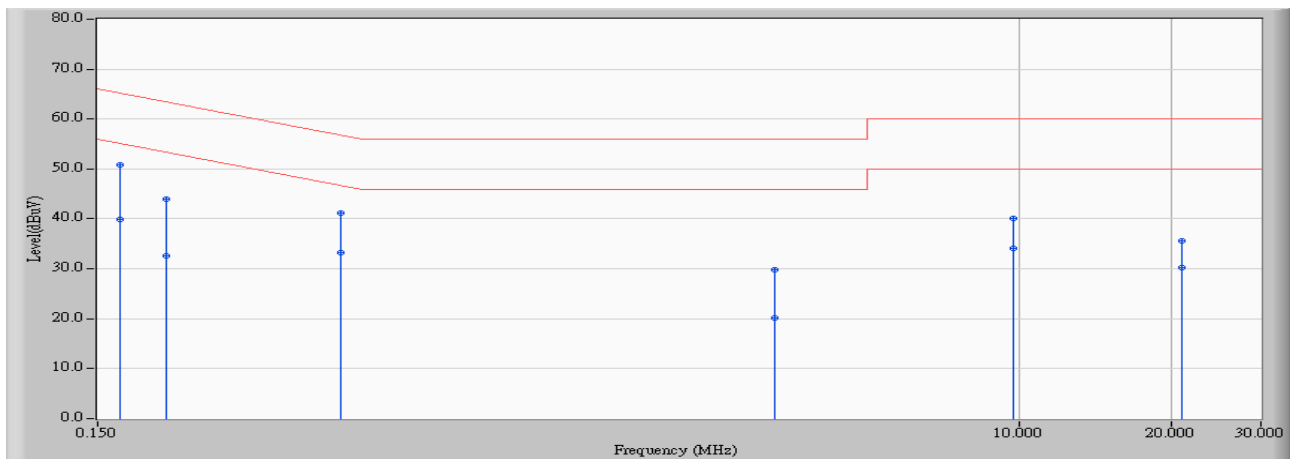
According to FCC Part 15 Subpart C Paragraph 15.207: 2014

2.6. Uncertainty

The measurement uncertainty is defined as ± 2.26 dB.

2.7. Test Result

Site : SR2	Time : 2015/05/15 - 19:30
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-4_0825 - Line1	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11b_2437MHz

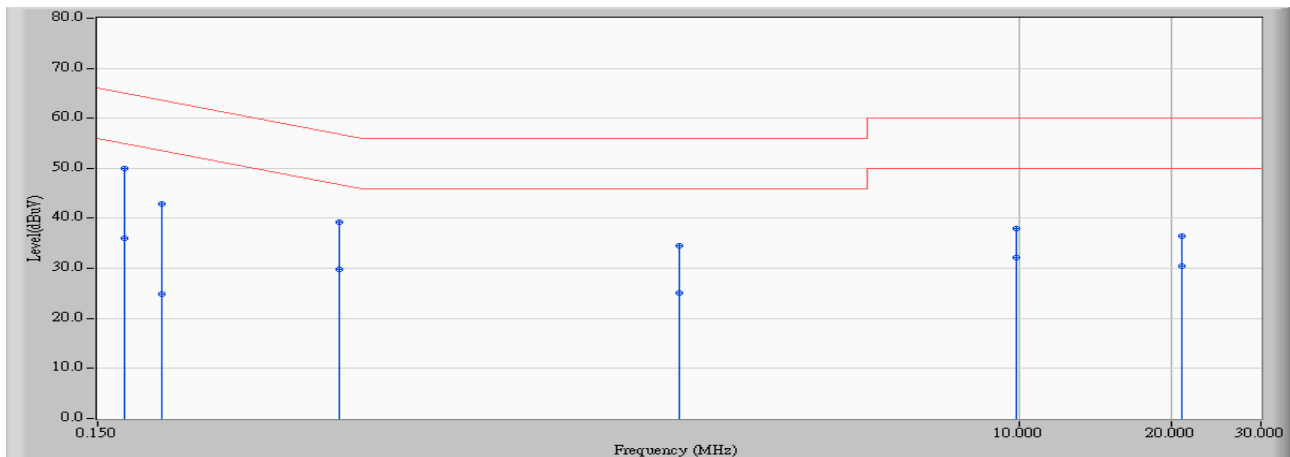


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.166	9.760	41.130	50.890	-14.287	65.177	QUASIPeAK
2		0.166	9.760	30.040	39.800	-15.377	55.177	AVERAGE
3		0.205	9.760	34.300	44.060	-19.359	63.418	QUASIPeAK
4		0.205	9.760	22.760	32.520	-20.899	53.418	AVERAGE
5		0.455	9.751	31.480	41.231	-15.558	56.789	QUASIPeAK
6	*	0.455	9.751	23.460	33.211	-13.578	46.789	AVERAGE
7		3.267	9.881	20.010	29.891	-26.109	56.000	QUASIPeAK
8		3.267	9.881	10.240	20.121	-25.879	46.000	AVERAGE
9		9.705	10.093	30.030	40.122	-19.878	60.000	QUASIPeAK
10		9.705	10.093	23.970	34.062	-15.938	50.000	AVERAGE
11		20.951	10.325	25.350	35.675	-24.325	60.000	QUASIPeAK
12		20.951	10.325	19.940	30.265	-19.735	50.000	AVERAGE

Note:

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

Site : SR2	Time : 2015/05/15 - 19:34
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-4_0825 - Line2	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11b_2437MHz

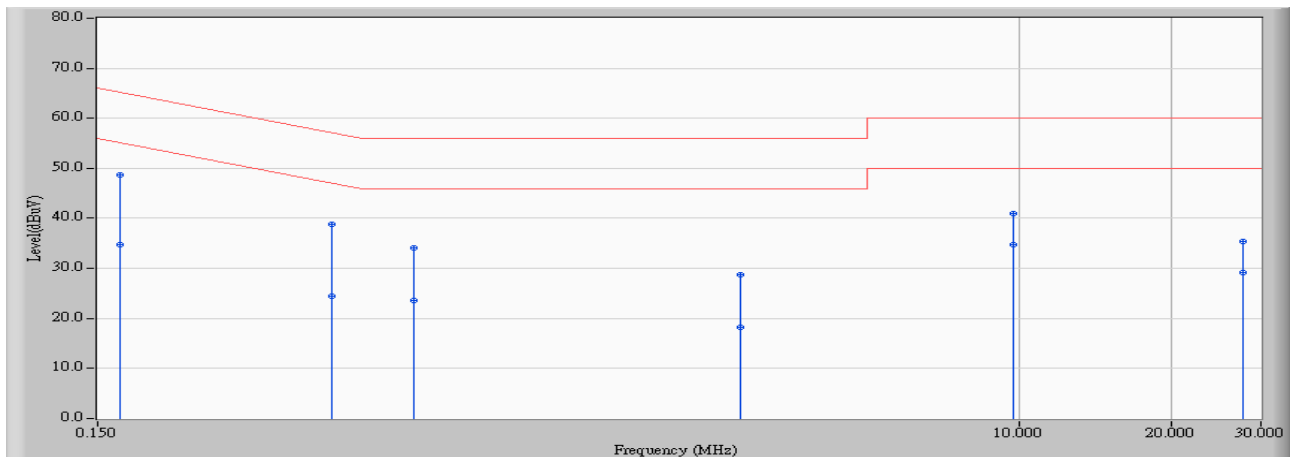


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.170	9.810	40.140	49.950	-15.033	64.983	QUASIPeAK
2		0.170	9.810	26.180	35.990	-18.993	54.983	AVERAGE
3		0.201	9.810	33.020	42.830	-20.748	63.578	QUASIPeAK
4		0.201	9.810	15.050	24.860	-28.718	53.578	AVERAGE
5		0.451	9.820	29.520	39.340	-17.521	56.861	QUASIPeAK
6		0.451	9.820	19.940	29.760	-17.101	46.861	AVERAGE
7		2.119	9.886	24.550	34.436	-21.564	56.000	QUASIPeAK
8		2.119	9.886	15.170	25.056	-20.944	46.000	AVERAGE
9		9.822	10.185	27.860	38.045	-21.955	60.000	QUASIPeAK
10		9.822	10.185	21.910	32.095	-17.905	50.000	AVERAGE
11		20.947	10.525	25.850	36.374	-23.626	60.000	QUASIPeAK
12		20.947	10.525	20.020	30.544	-19.456	50.000	AVERAGE

Note:

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

Site : SR2	Time : 2015/05/15 - 19:46
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-4_0825 - Line1	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11ac(80M)_5775MHz

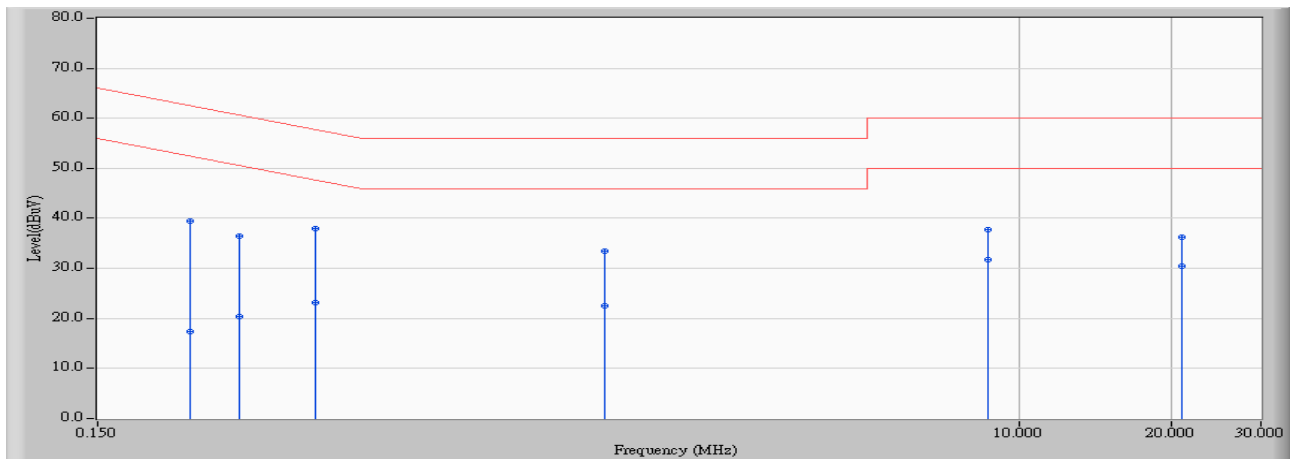


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.166	9.760	38.960	48.720	-16.457	65.177	QUASIPeAK
2		0.166	9.760	24.910	34.670	-20.507	55.177	AVERAGE
3		0.436	9.751	29.020	38.771	-18.376	57.146	QUASIPeAK
4		0.436	9.751	14.760	24.511	-22.636	47.146	AVERAGE
5		0.634	9.767	24.240	34.007	-21.993	56.000	QUASIPeAK
6		0.634	9.767	13.900	23.667	-22.333	46.000	AVERAGE
7		2.795	9.858	18.810	28.668	-27.332	56.000	QUASIPeAK
8		2.795	9.858	8.420	18.278	-27.722	46.000	AVERAGE
9		9.705	10.093	30.840	40.932	-19.068	60.000	QUASIPeAK
10	*	9.705	10.093	24.700	34.792	-15.208	50.000	AVERAGE
11		27.572	10.337	25.130	35.467	-24.533	60.000	QUASIPeAK
12		27.572	10.337	18.830	29.167	-20.833	50.000	AVERAGE

Note:

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

Site : SR2	Time : 2015/05/15 - 19:50
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-4_0825 - Line2	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11ac(80M)_5775MHz

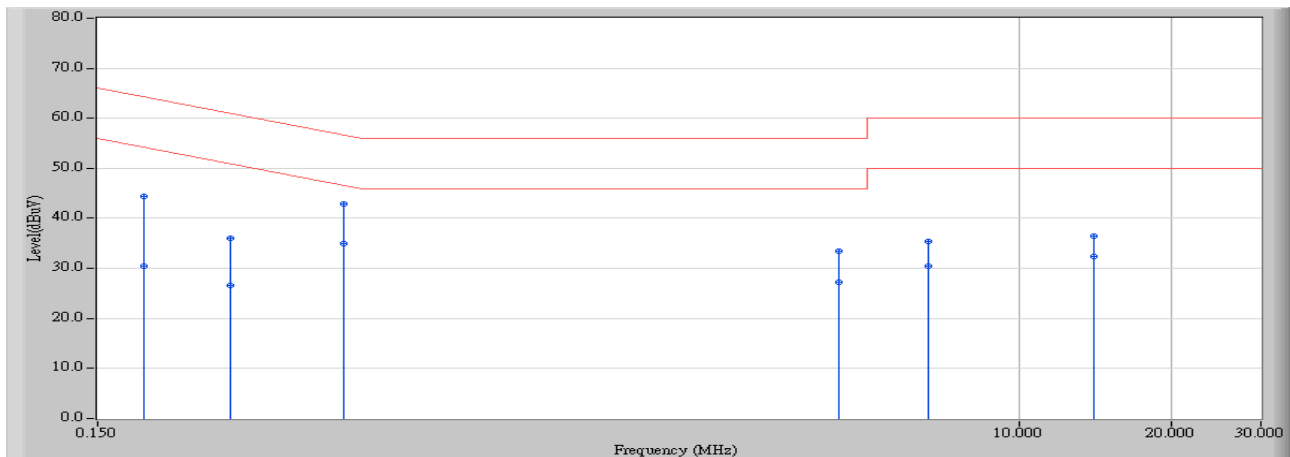


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.228	9.811	29.650	39.461	-23.056	62.518	QUASIPeAK
2		0.228	9.811	7.620	17.431	-35.086	52.518	AVERAGE
3		0.287	9.814	26.590	36.404	-24.215	60.619	QUASIPeAK
4		0.287	9.814	10.560	20.374	-30.245	50.619	AVERAGE
5		0.404	9.820	28.120	37.940	-19.833	57.773	QUASIPeAK
6		0.404	9.820	13.430	23.250	-24.523	47.773	AVERAGE
7		1.513	9.875	23.620	33.495	-22.505	56.000	QUASIPeAK
8		1.513	9.875	12.710	22.585	-23.415	46.000	AVERAGE
9		8.642	10.150	27.690	37.840	-22.160	60.000	QUASIPeAK
10	*	8.642	10.150	21.580	31.730	-18.270	50.000	AVERAGE
11		20.947	10.525	25.670	36.194	-23.806	60.000	QUASIPeAK
12		20.947	10.525	19.940	30.464	-19.536	50.000	AVERAGE

Note:

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

Site : SR2	Time : 2015/09/24 - 19:15
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-5_0818 - Line1	Power : AC120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 3: Transmit_ADP-33AW 802.11n(40M) 2437MHz

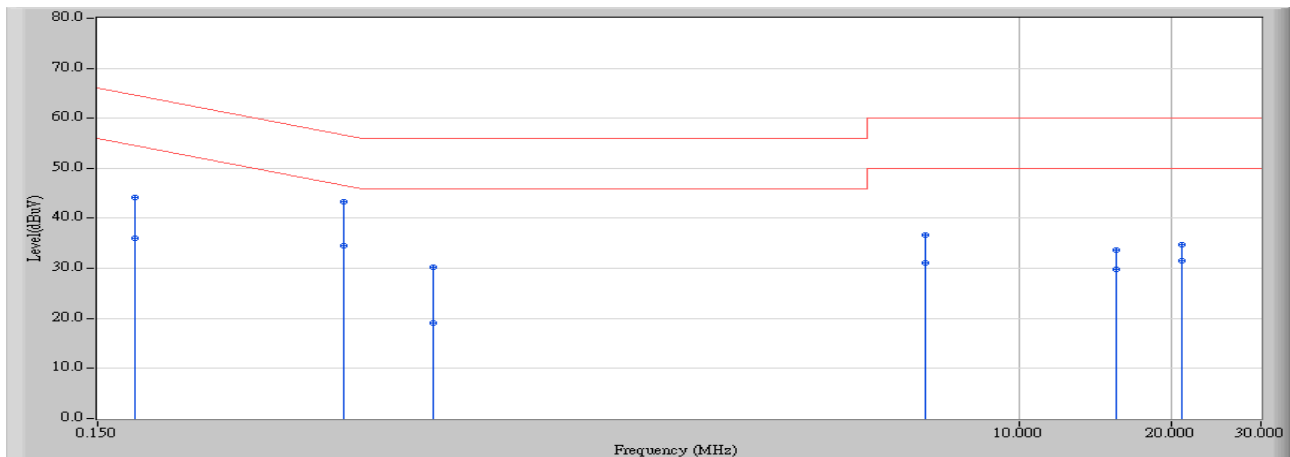


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.185	9.688	34.680	44.368	-19.883	64.251	QUASIPeAK
2		0.185	9.688	20.810	30.498	-23.753	54.251	AVERAGE
3		0.275	9.694	26.300	35.994	-24.971	60.966	QUASIPeAK
4		0.275	9.694	16.850	26.544	-24.421	50.966	AVERAGE
5		0.459	9.714	33.120	42.834	-13.884	56.718	QUASIPeAK
6	*	0.459	9.714	25.200	34.914	-11.804	46.718	AVERAGE
7		4.384	9.884	23.650	33.535	-22.465	56.000	QUASIPeAK
8		4.384	9.884	17.250	27.135	-18.865	46.000	AVERAGE
9		6.615	9.977	25.470	35.447	-24.553	60.000	QUASIPeAK
10		6.615	9.977	20.380	30.357	-19.643	50.000	AVERAGE
11		13.994	10.194	26.340	36.534	-23.466	60.000	QUASIPeAK
12		13.994	10.194	22.160	32.354	-17.646	50.000	AVERAGE

Note:

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

Site : SR2	Time : 2015/09/24 - 20:06
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-5_0818 - Line2	Power : AC120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 3: Transmit_ADP-33AW 802.11n(40M) 2437MHz

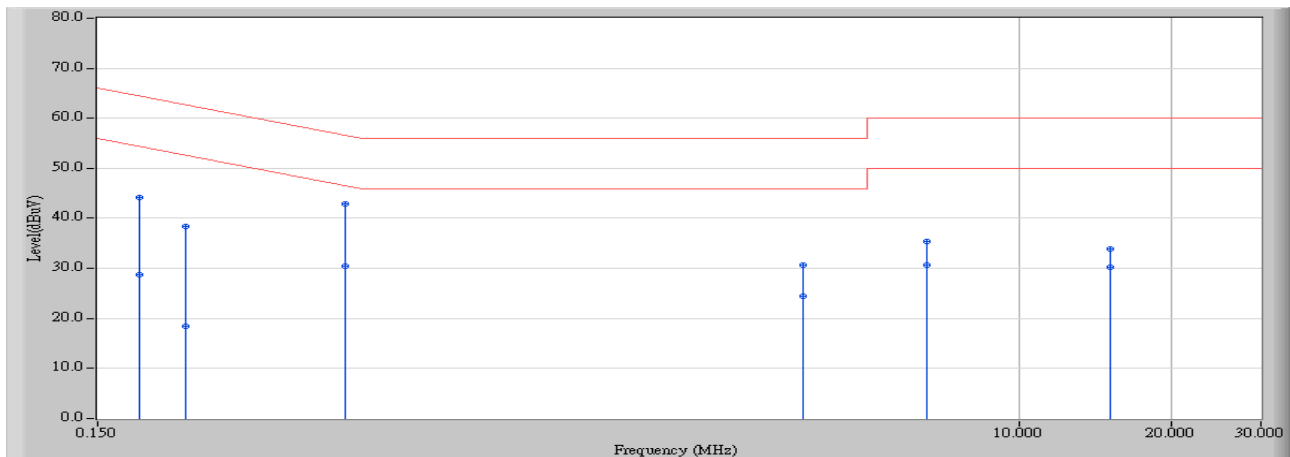


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.177	9.764	34.380	44.144	-20.465	64.609	QUASPEAK
2		0.177	9.764	26.290	36.054	-18.555	54.609	AVERAGE
3		0.459	9.795	33.480	43.275	-13.443	56.718	QUASPEAK
4	*	0.459	9.795	24.800	34.595	-12.123	46.718	AVERAGE
5		0.693	9.805	20.470	30.275	-25.725	56.000	QUASPEAK
6		0.693	9.805	9.280	19.085	-26.915	46.000	AVERAGE
7		6.486	10.031	26.650	36.681	-23.319	60.000	QUASPEAK
8		6.486	10.031	21.060	31.091	-18.909	50.000	AVERAGE
9		15.537	10.172	23.470	33.642	-26.358	60.000	QUASPEAK
10		15.537	10.172	19.600	29.772	-20.228	50.000	AVERAGE
11		20.908	10.235	24.600	34.835	-25.165	60.000	QUASPEAK
12		20.908	10.235	21.360	31.595	-18.405	50.000	AVERAGE

Note:

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

Site : SR2	Time : 2015/09/24 - 19:28
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-5_0818 - Line1	Power : AC120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 3: Transmit_ADP-33AW 802.11ac(80M) 5775MHz

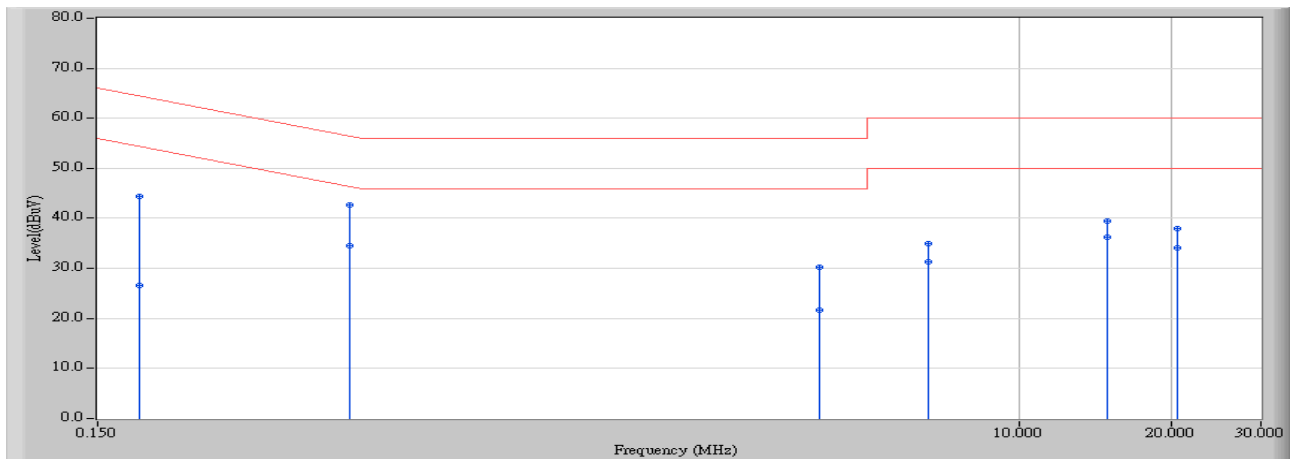


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.181	9.688	34.480	44.168	-20.260	64.428	QUASPEAK
2		0.181	9.688	19.110	28.798	-25.630	54.428	AVERAGE
3		0.224	9.689	28.750	38.439	-24.222	62.661	QUASPEAK
4		0.224	9.689	8.790	18.479	-34.182	52.661	AVERAGE
5	*	0.463	9.714	33.100	42.814	-13.833	56.648	QUASPEAK
6		0.463	9.714	20.760	30.474	-16.173	46.648	AVERAGE
7		3.716	9.854	20.820	30.674	-25.326	56.000	QUASPEAK
8		3.716	9.854	14.700	24.554	-21.446	46.000	AVERAGE
9		6.548	9.974	25.450	35.424	-24.576	60.000	QUASPEAK
10		6.548	9.974	20.630	30.604	-19.396	50.000	AVERAGE
11		15.060	10.217	23.750	33.967	-26.033	60.000	QUASPEAK
12		15.060	10.217	20.100	30.317	-19.683	50.000	AVERAGE

Note:

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

Site : SR2	Time : 2015/09/24 - 20:01
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-5_0818 - Line2	Power : AC120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 3: Transmit_ADP-33AW 802.11ac(80M) 5775MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.181	9.764	34.620	44.384	-20.044	64.428	QUASIPeAK
2		0.181	9.764	16.880	26.644	-27.784	54.428	AVERAGE
3		0.474	9.797	32.790	42.587	-13.852	56.440	QUASIPeAK
4	*	0.474	9.797	24.800	34.597	-11.842	46.440	AVERAGE
5		4.017	9.947	20.270	30.217	-25.783	56.000	QUASIPeAK
6		4.017	9.947	11.770	21.717	-24.283	46.000	AVERAGE
7		6.591	10.034	24.920	34.954	-25.046	60.000	QUASIPeAK
8		6.591	10.034	21.290	31.324	-18.676	50.000	AVERAGE
9		14.943	10.165	29.260	39.425	-20.575	60.000	QUASIPeAK
10		14.943	10.165	26.110	36.275	-13.725	50.000	AVERAGE
11		20.443	10.232	27.710	37.942	-22.058	60.000	QUASIPeAK
12		20.443	10.232	23.860	34.092	-15.908	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. Peak Power Output

3.1. Test Equipment

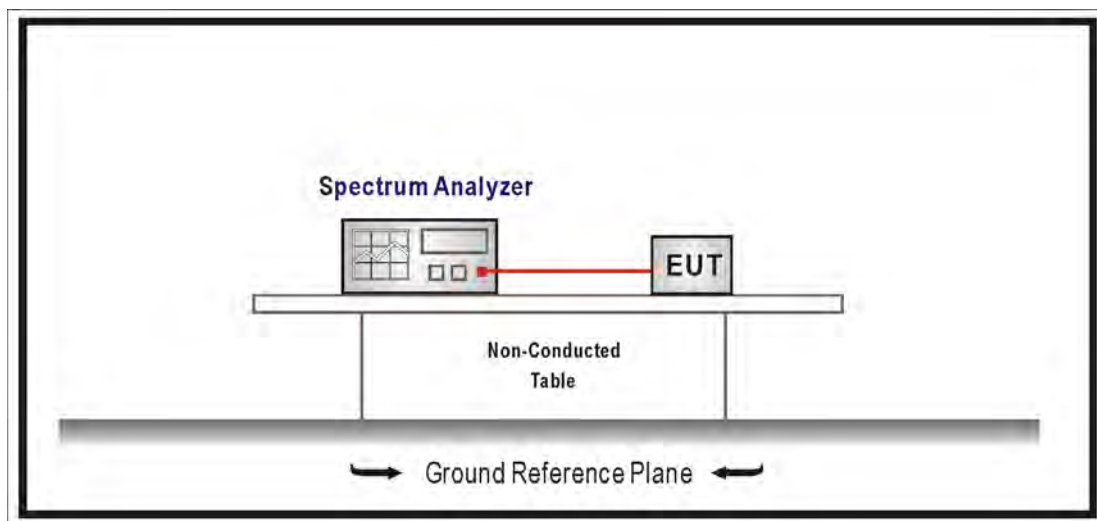
The following test equipments are used during the test:

Peak Power Output / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2016/08/23

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

3.2. Test Setup



3.3. Test procedures

The EUT was tested according to DTS test procedure section 9.1.2 of KDB558074 v03r02 measurement to FCC 47CFR 15.247 requirements.

3.4. Limits

The maximum peak power shall be less 1 Watt.

3.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2014

3.6. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB.

3.7. Test Result

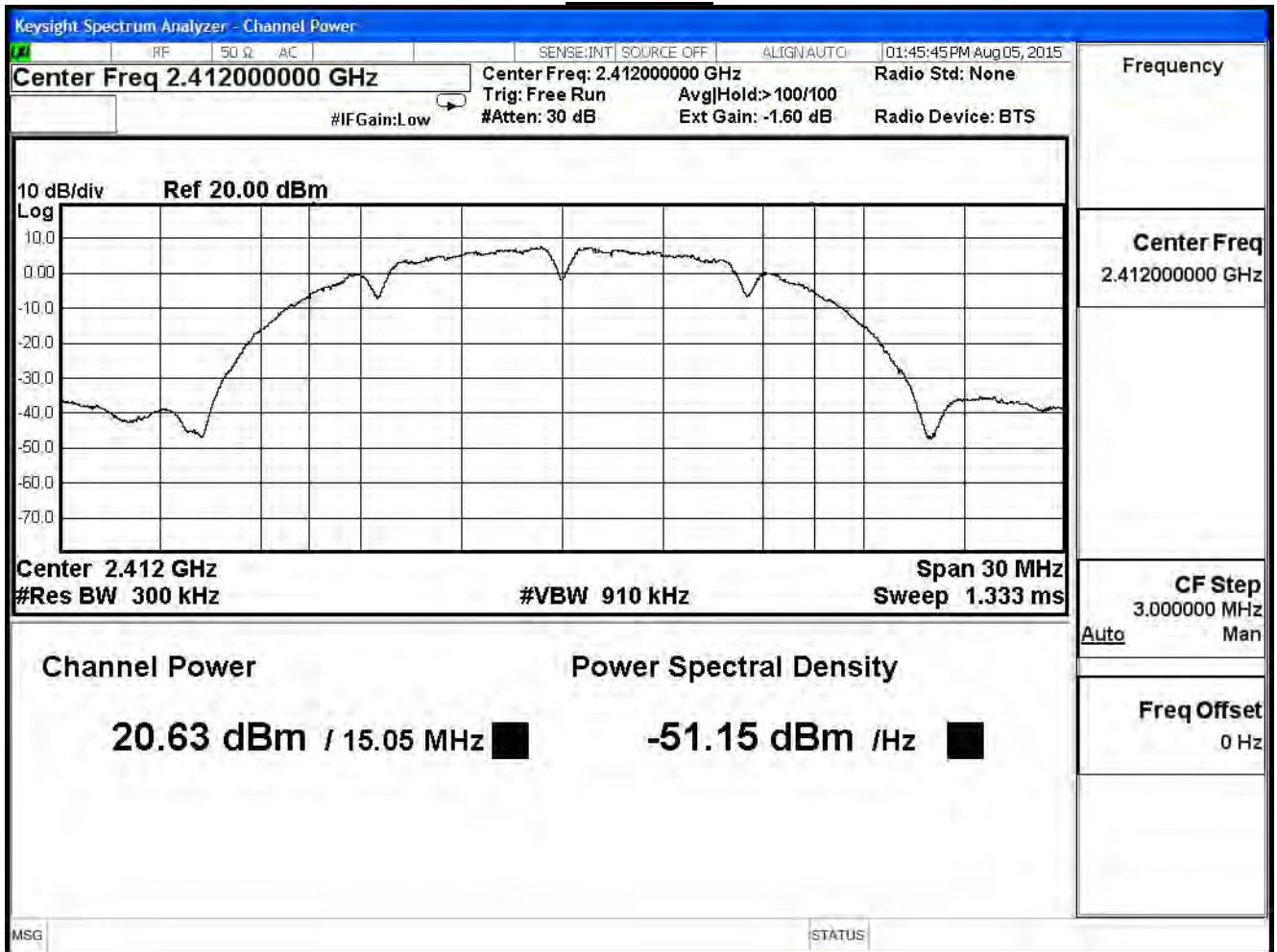
Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit_CDD Mode_AD890326		
Date of Test	2015/08/05	Test Site	SR7

IEEE 802.11b (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	20.63	≤ 30	Pass
6	2437	24.66	≤ 30	Pass
11	2462	19.04	≤ 30	Pass

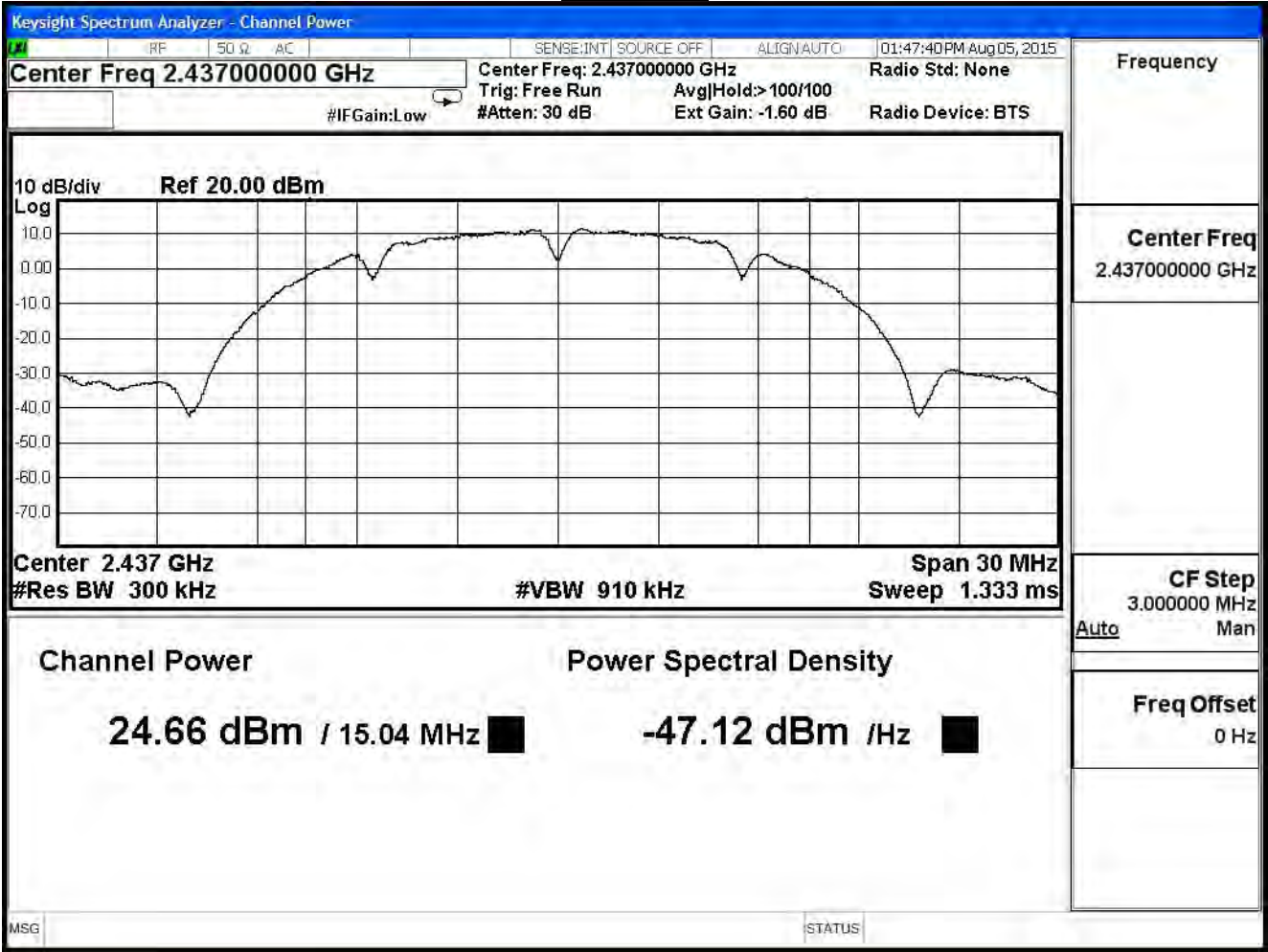
The worst emission of data rate is 1Mbps.

Peak Power Output (dBm)						
Channel No	Frequency (MHz)	Data Rate (Mbps)				Required Limit
		1	2	5.5	11	
1	2412	20.63	--	--	--	30dBm
6	2437	24.66	24.54	24.34	24.23	30dBm
11	2462	19.04	--	--	--	30dBm

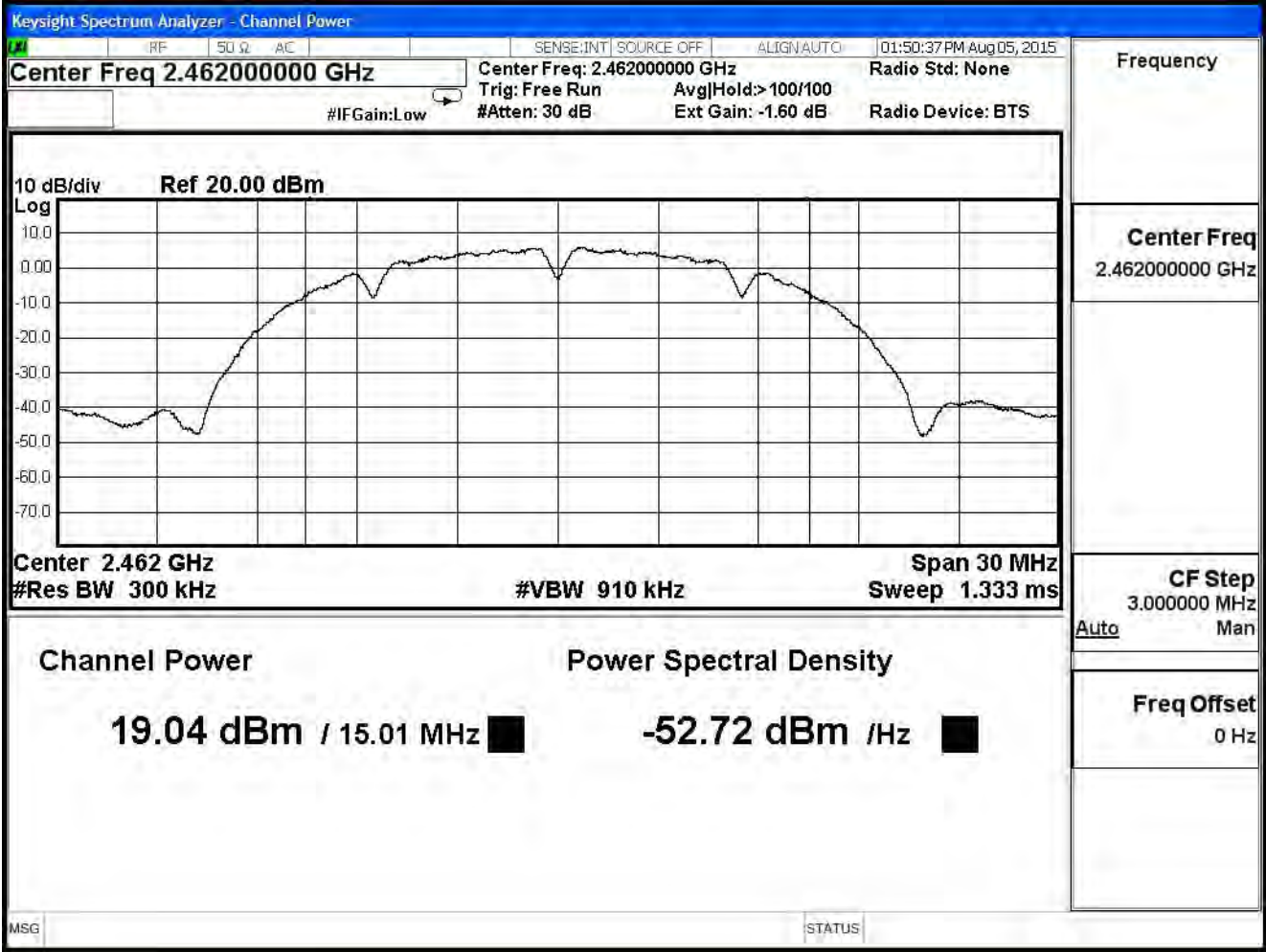
Channel 1



Channel 6



Channel 11



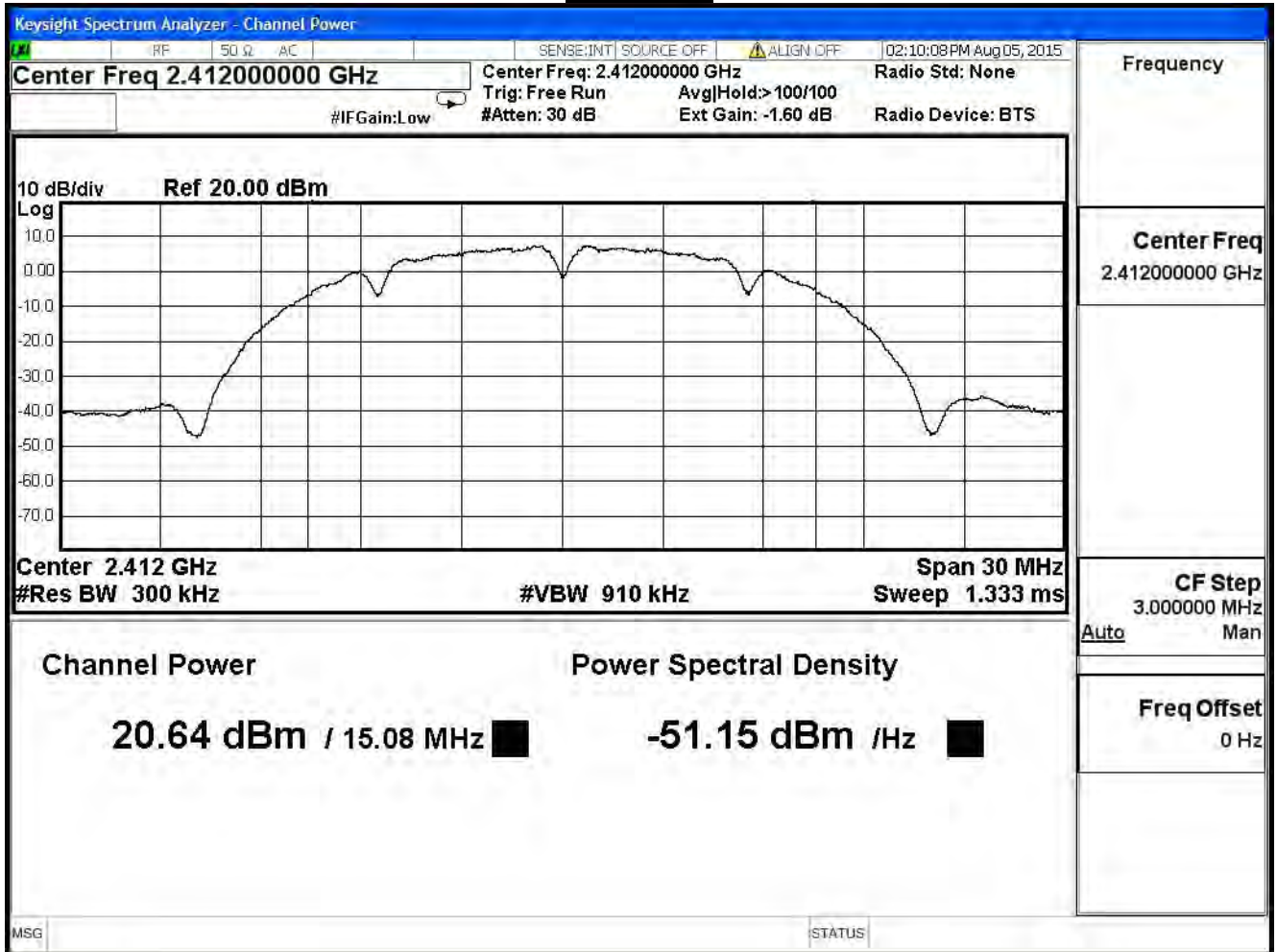
Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit_CDD Mode_AD890326		
Date of Test	2015/08/05	Test Site	SR7

IEEE 802.11b (ANT 1)				
Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
1	2412	20.64	≤ 30	Pass
6	2437	24.96	≤ 30	Pass
11	2462	19.61	≤ 30	Pass

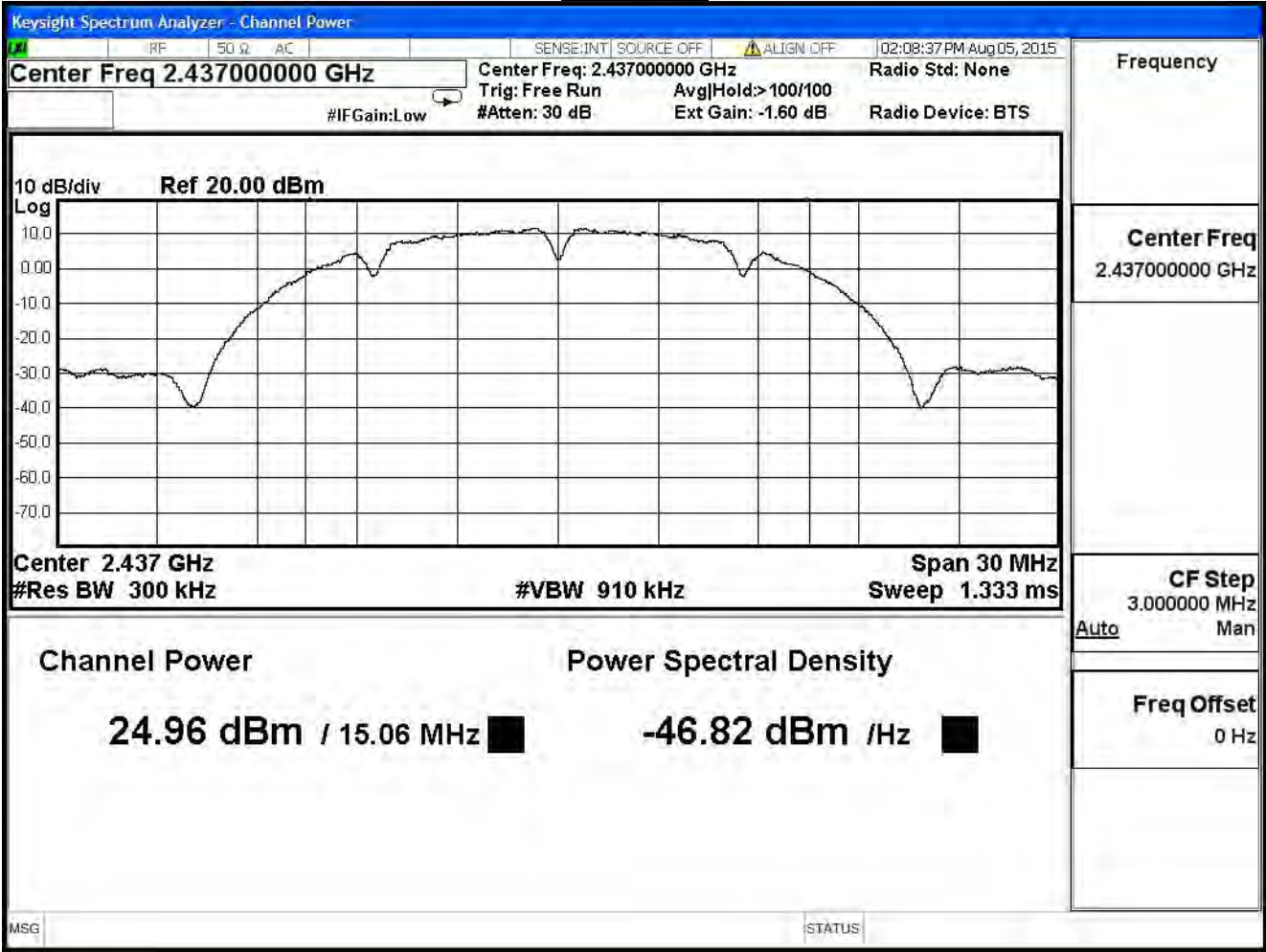
The worst emission of data rate is 1Mbps.

Channel No	Frequency (MHz)	Data Rate (Mbps)				Required Limit
		1	2	5.5	11	
1	2412	20.64	--	--	--	30dBm
6	2437	24.96	24.76	24.52	24.32	30dBm
11	2462	19.61	--	--	--	30dBm

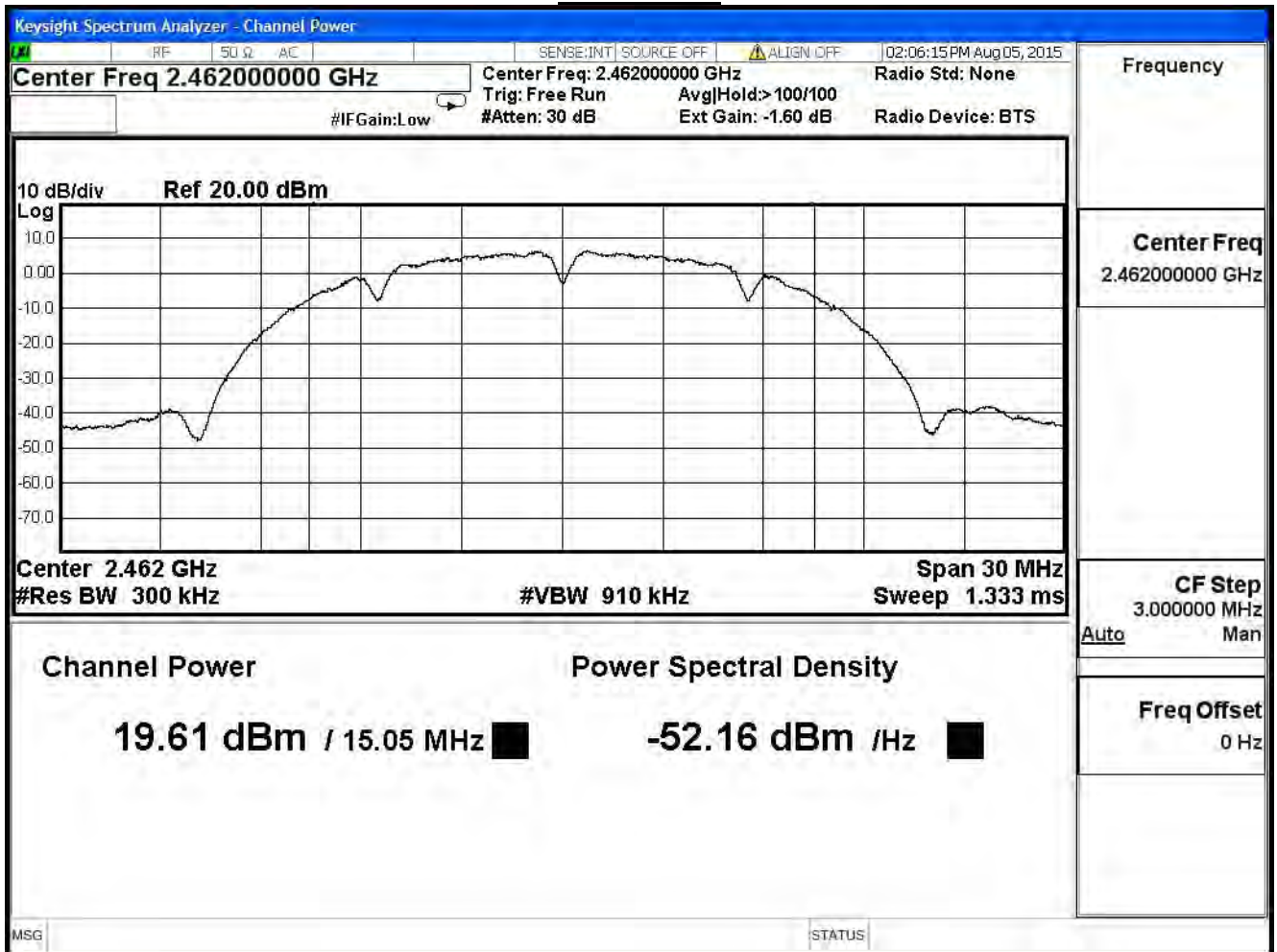
Channel 1



Channel 6



Channel 11



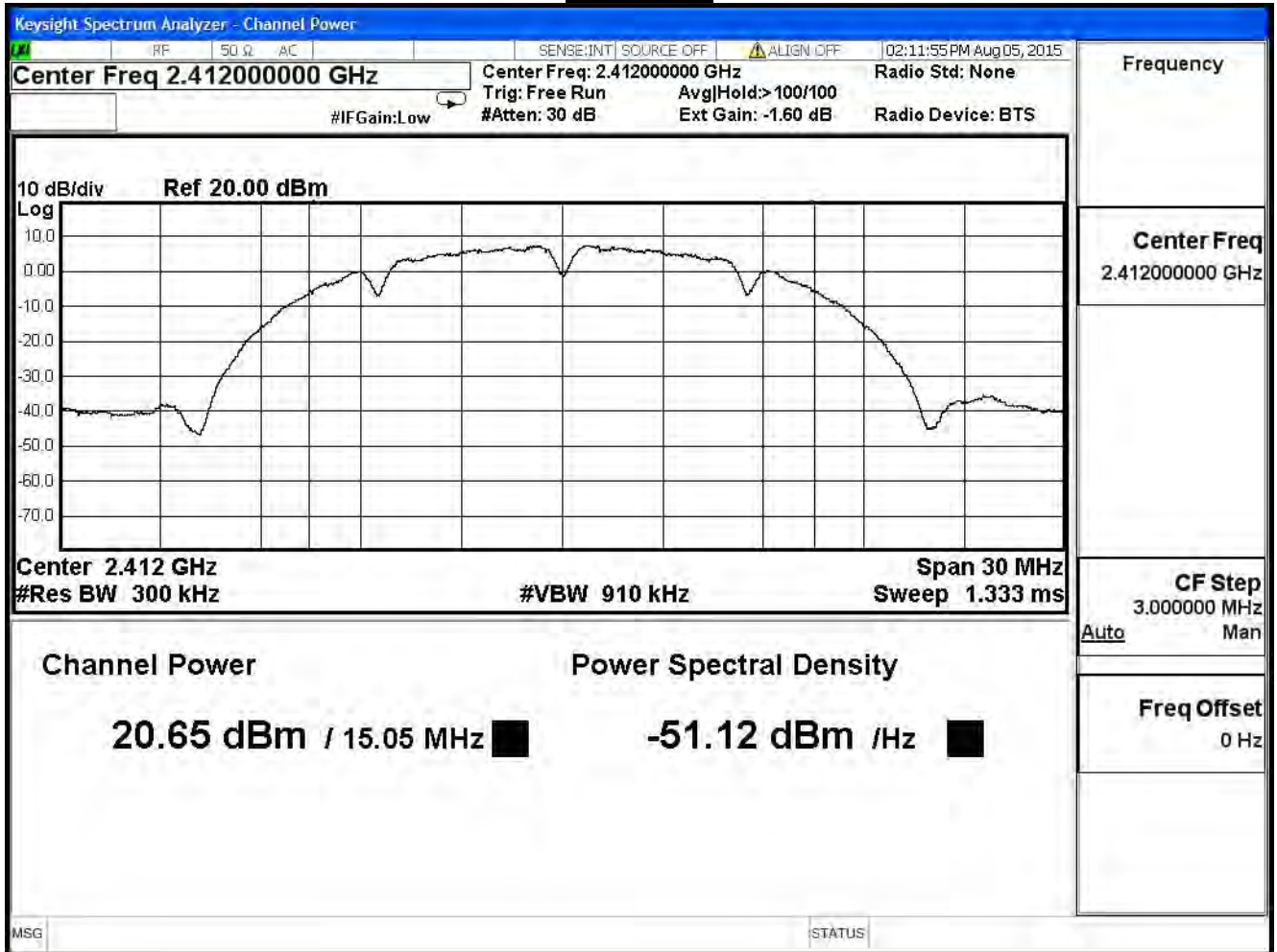
Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit_CDD Mode_AD890326		
Date of Test	2015/08/05	Test Site	SR7

IEEE 802.11b (ANT 2)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	20.65	≤ 30	Pass
6	2437	24.92	≤ 30	Pass
11	2462	19.20	≤ 30	Pass

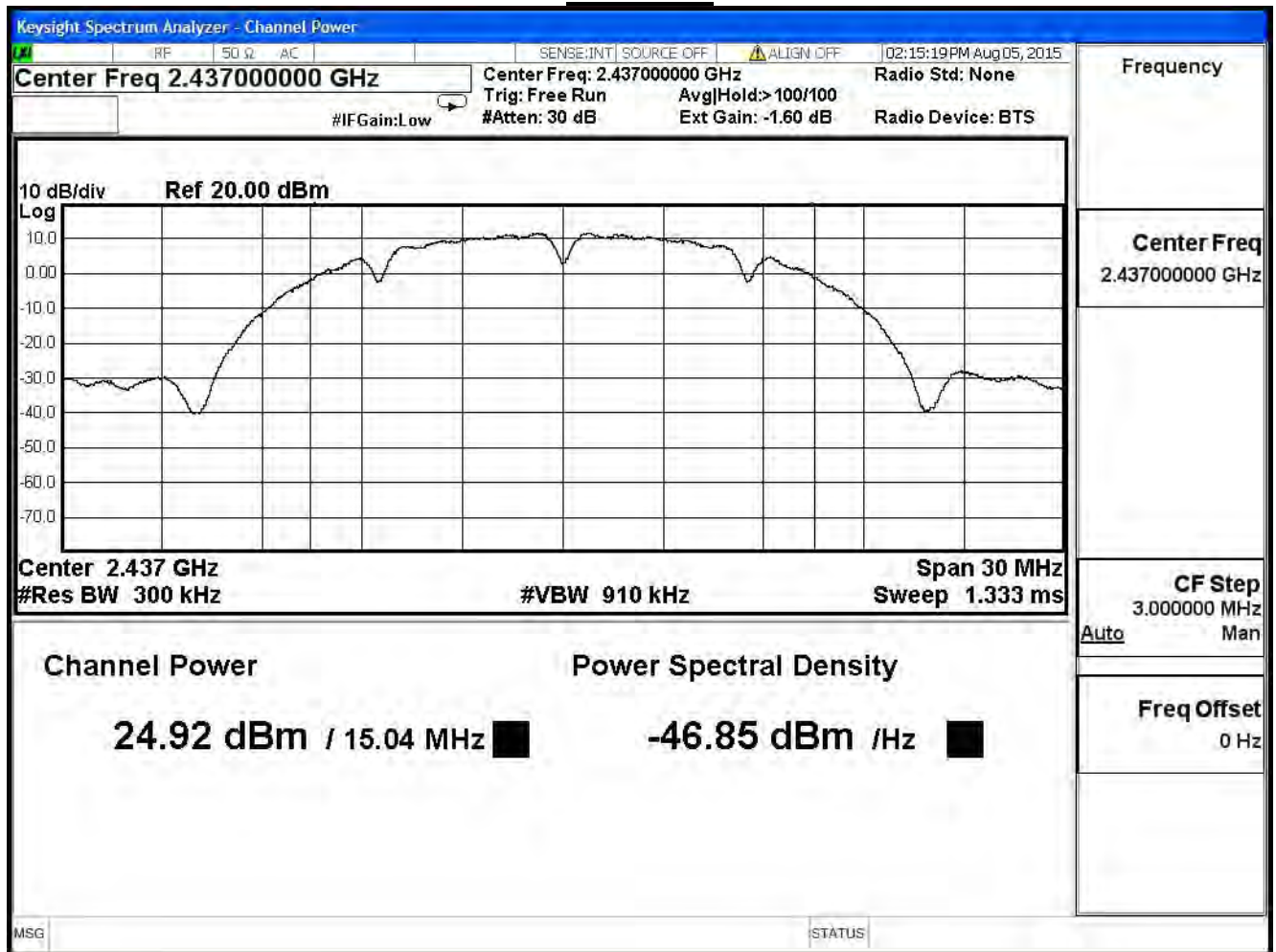
The worst emission of data rate is 1Mbps.

Channel No	Frequency (MHz)	Data Rate (Mbps)				Required Limit
		1	2	5.5	11	
1	2412	20.65	--	--	--	30dBm
6	2437	24.92	24.72	24.59	24.49	30dBm
11	2462	19.20	--	--	--	30dBm

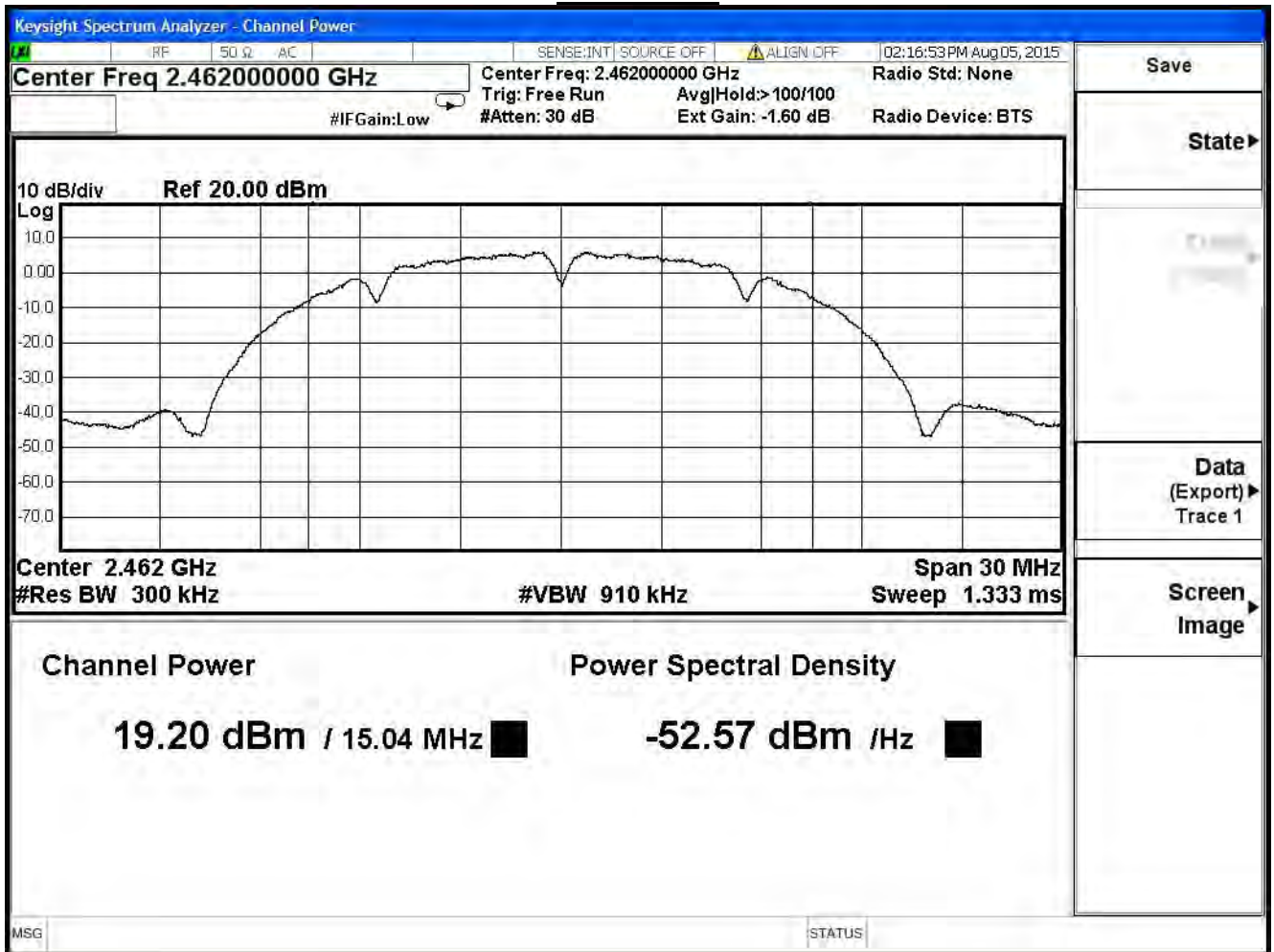
Channel 1



Channel 6



Channel 11



Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit_CDD Mode_AD890326		
Date of Test	2015/08/05	Test Site	SR7

IEEE 802.11b (ANT 0+1+2)

Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
1	2412	25.41	≤ 30	Pass
6	2437	29.62	≤ 30	Pass
11	2462	24.06	≤ 30	Pass

The worst emission of data rate is 1Mbps.

Channel No	Frequency (MHz)	Data Rate (Mbps)				Required Limit
		1	2	5.5	11	
1	2412	25.41	--	--	--	30dBm
6	2437	29.62	29.45	29.26	29.12	30dBm
11	2462	24.06	--	--	--	30dBm

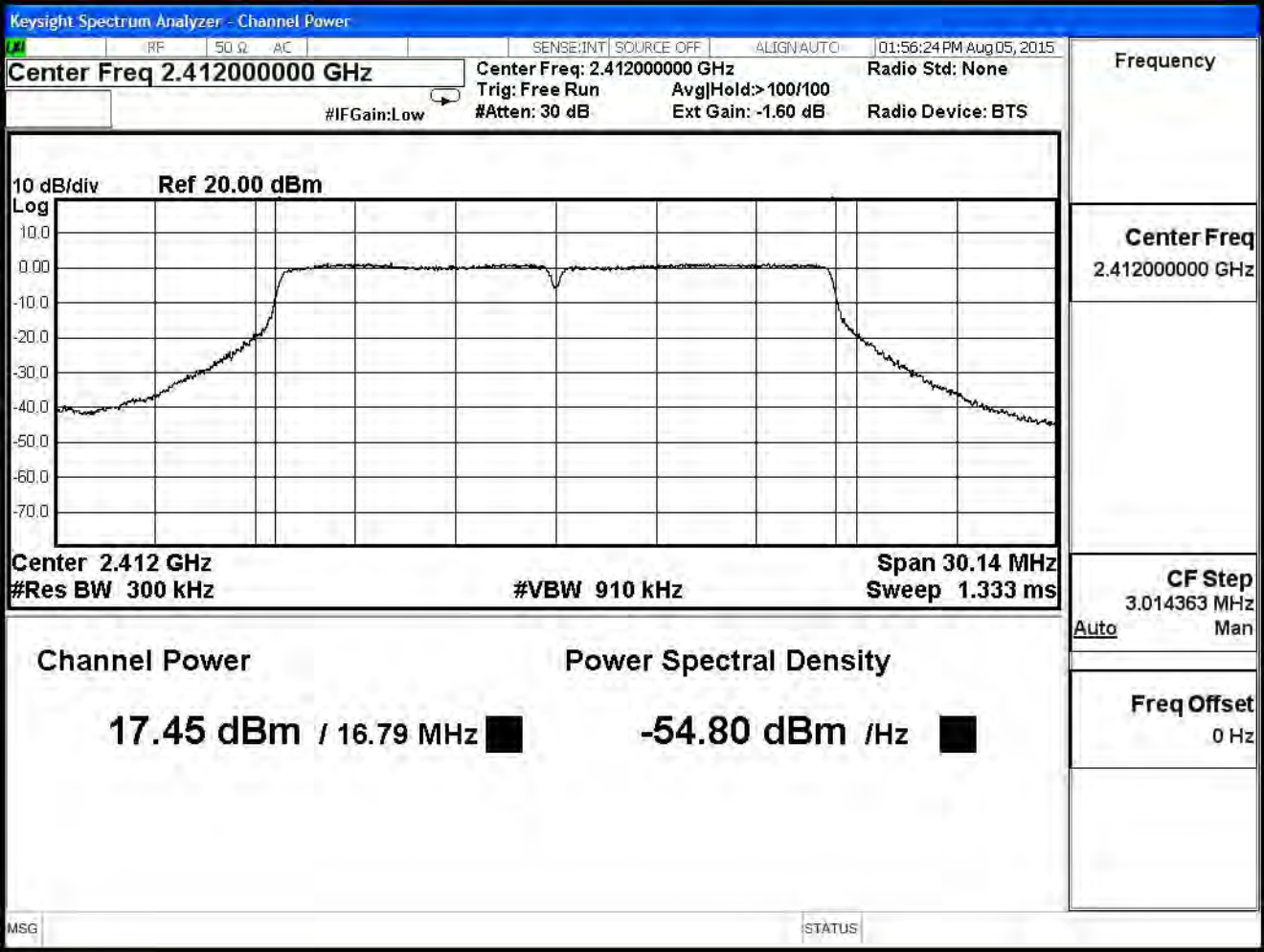
Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit_CDD Mode_AD890326		
Date of Test	2015/08/05	Test Site	SR7

IEEE 802.11g (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	17.45	≤ 30	Pass
6	2437	22.51	≤ 30	Pass
11	2462	16.24	≤ 30	Pass

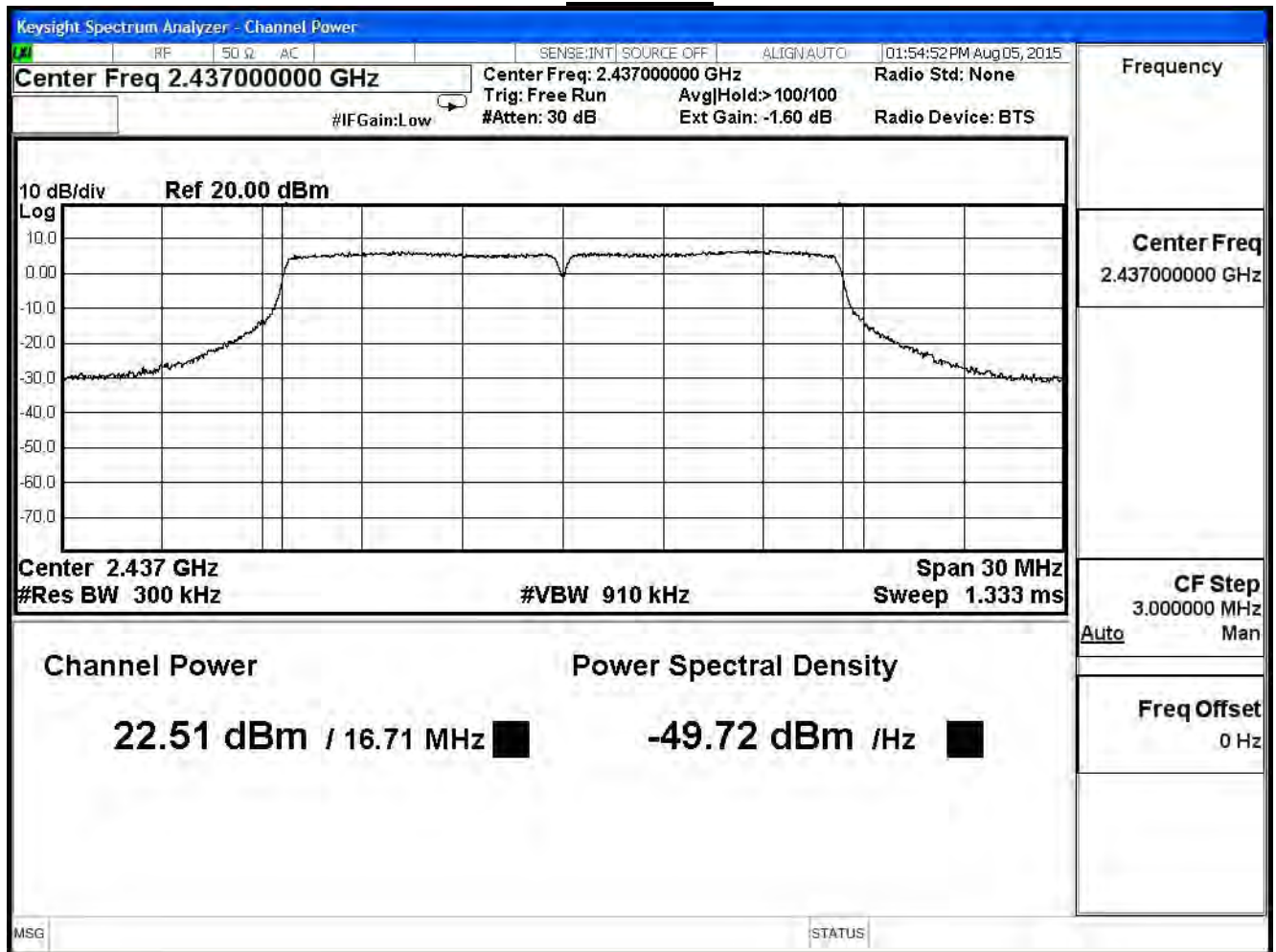
The worst emission of data rate is 6Mbps.

Peak Power Output (dBm)									
Channel	Frequency	Data Rate							Required Limit
No	(MHz)	6	12	18	24	36	48	54	
1	2412	17.45	--	--	--	--	--	--	30dBm
6	2437	22.51	22.39	22.19	21.97	21.71	21.59	21.47	30dBm
11	2462	16.24	--	--	--	--	--	--	30dBm

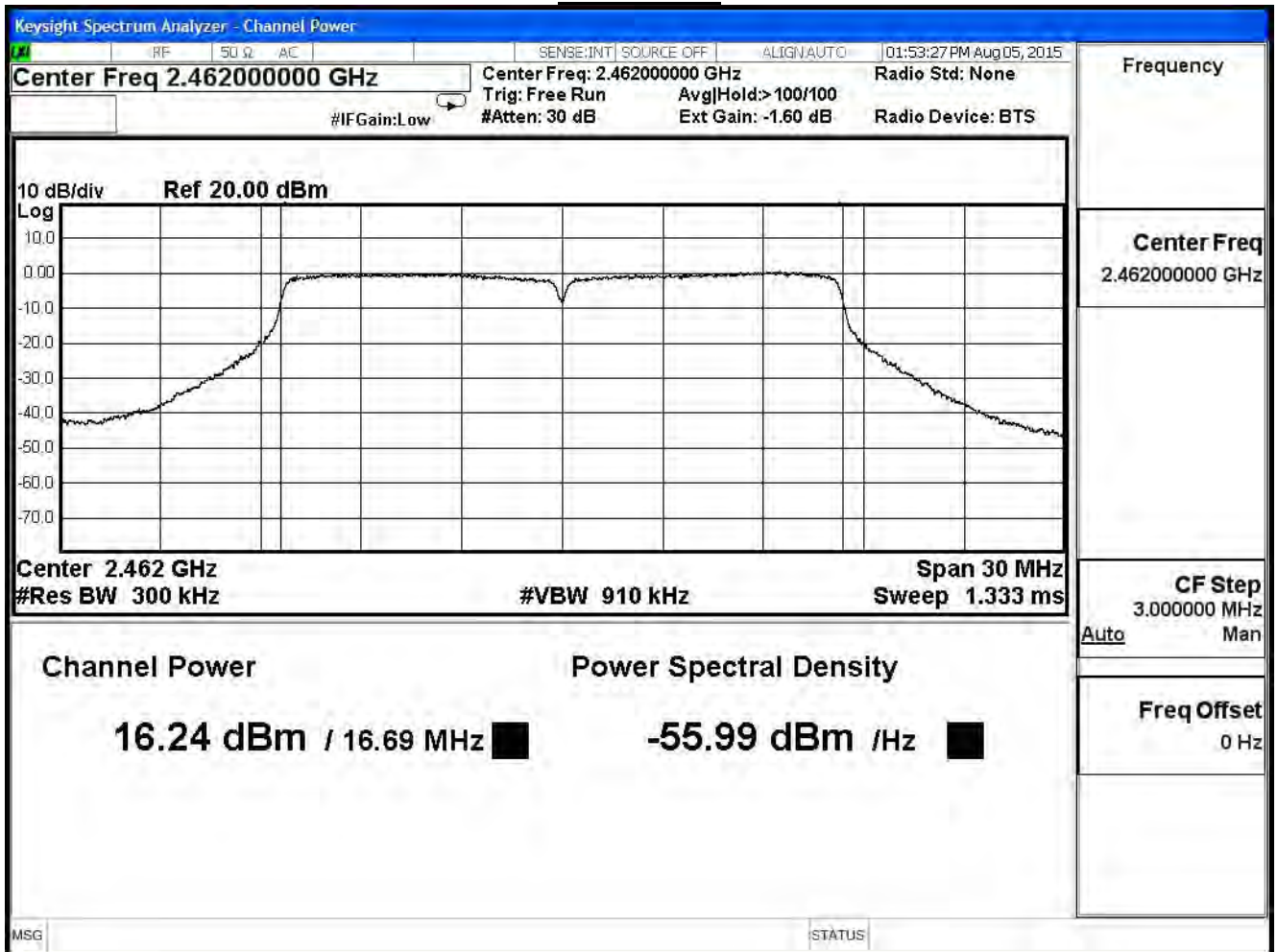
Channel 1



Channel 6



Channel 11



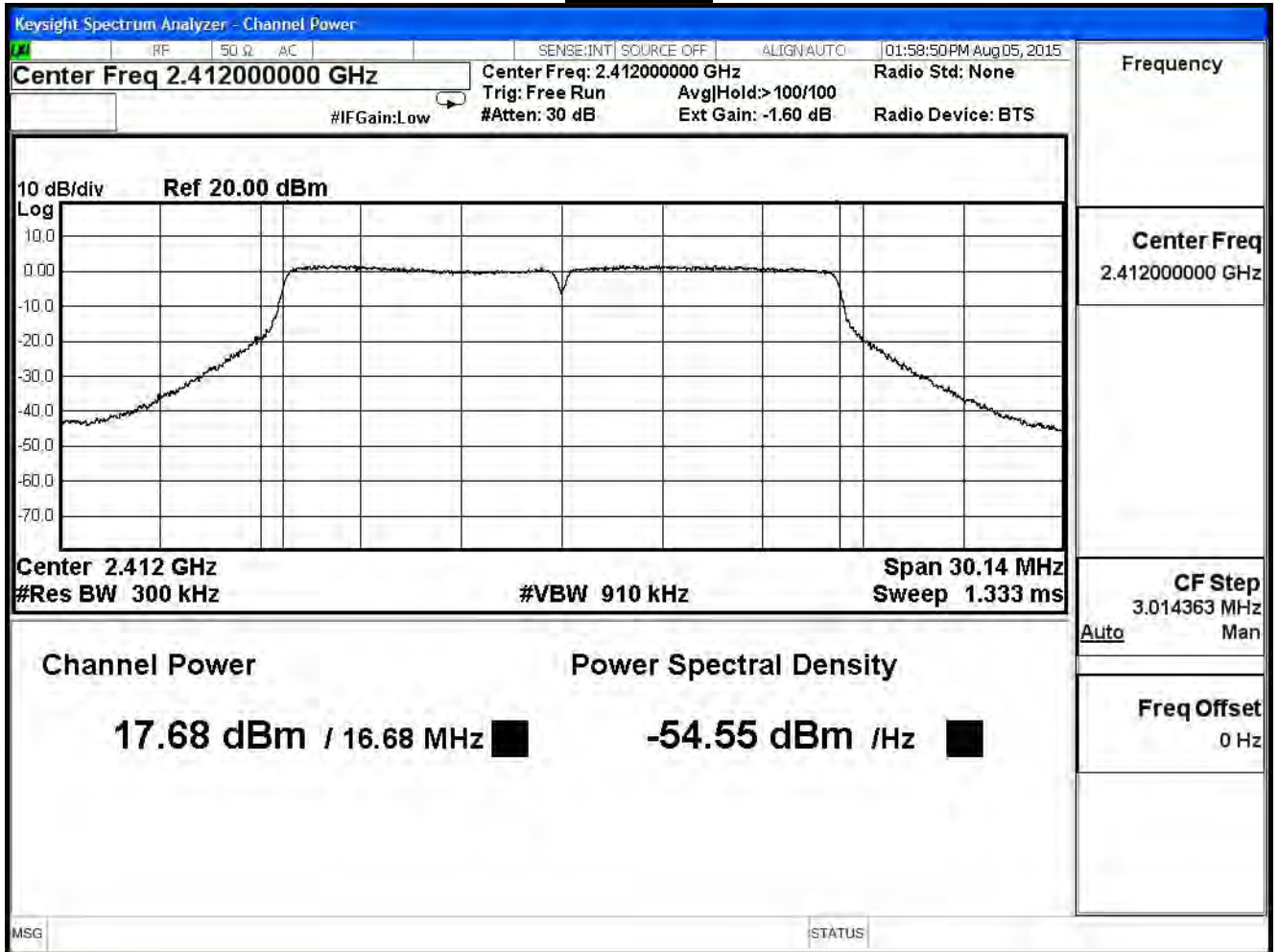
Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit_CDD Mode_AD890326		
Date of Test	2015/08/05	Test Site	SR7

IEEE 802.11g (ANT 1)				
Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
1	2412	17.68	≤ 30	Pass
6	2437	22.63	≤ 30	Pass
11	2462	16.60	≤ 30	Pass

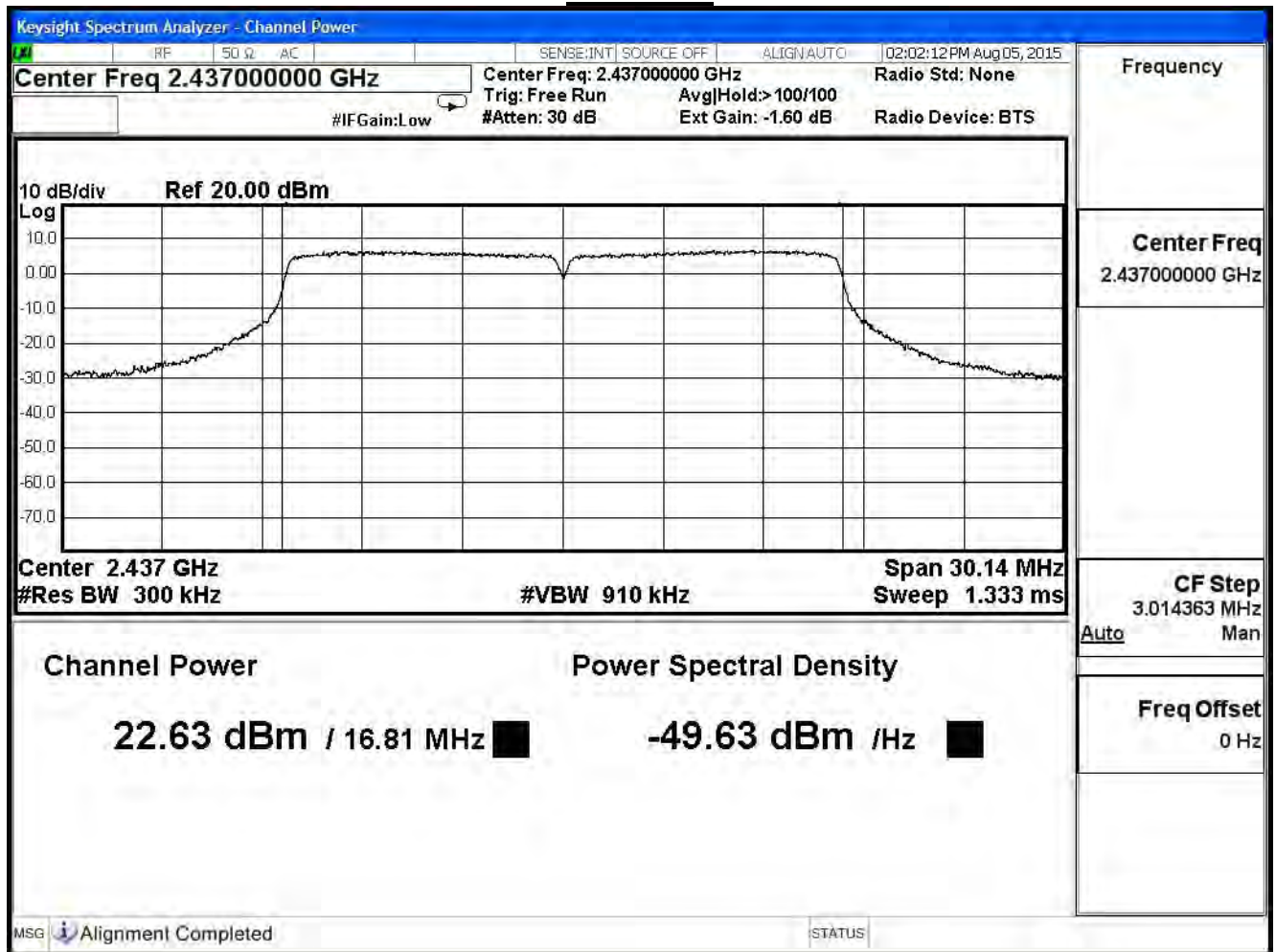
The worst emission of data rate is 6Mbps.

Peak Power Output (dBm)									
Channel	Frequency	Data Rate							Required Limit
No	(MHz)	6	12	18	24	36	48	54	
1	2412	17.68	--	--	--	--	--	--	30dBm
6	2437	22.63	22.53	22.41	22.21	21.97	21.73	21.49	30dBm
11	2462	16.60	--	--	--	--	--	--	30dBm

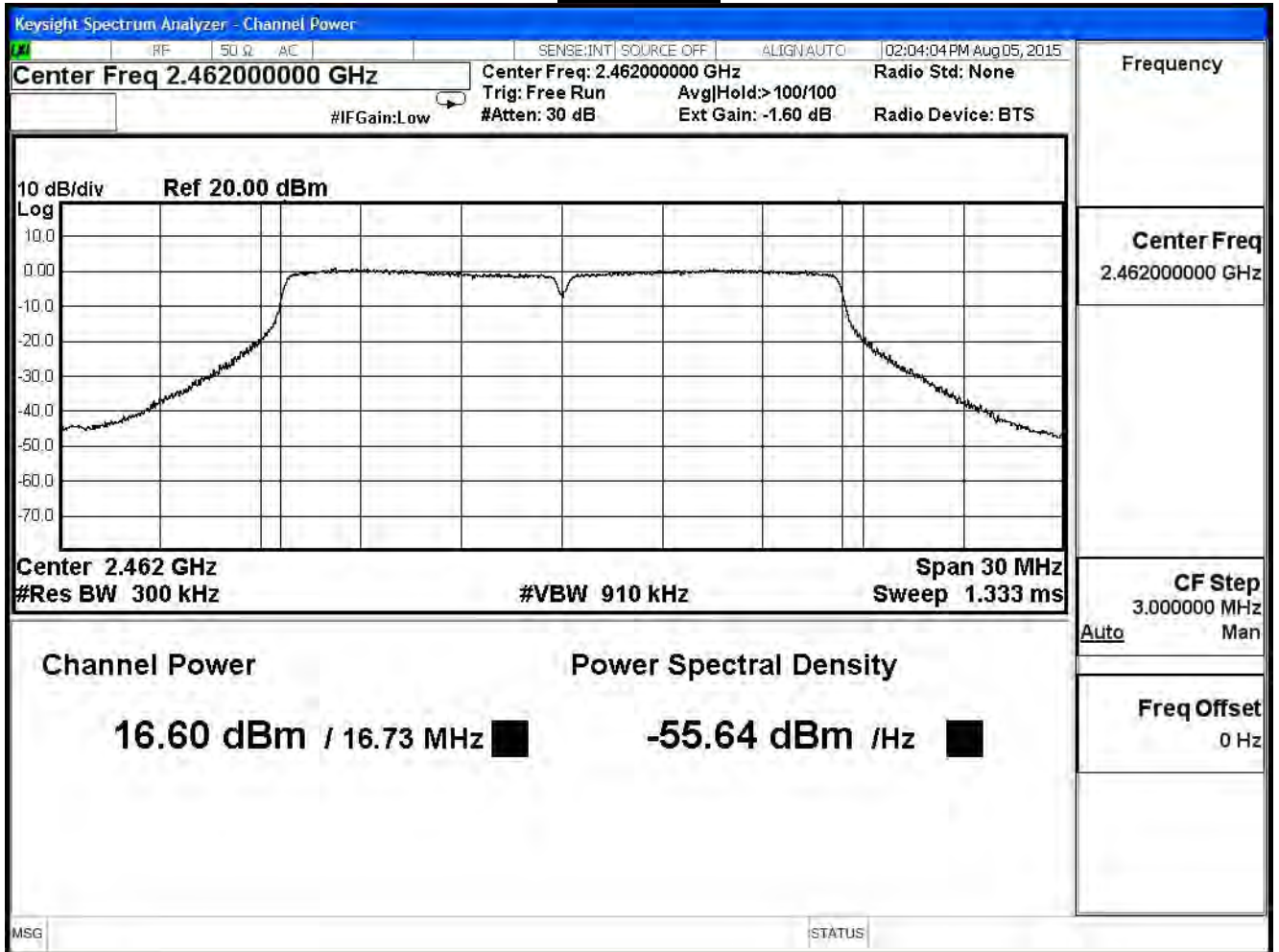
Channel 1



Channel 6



Channel 11



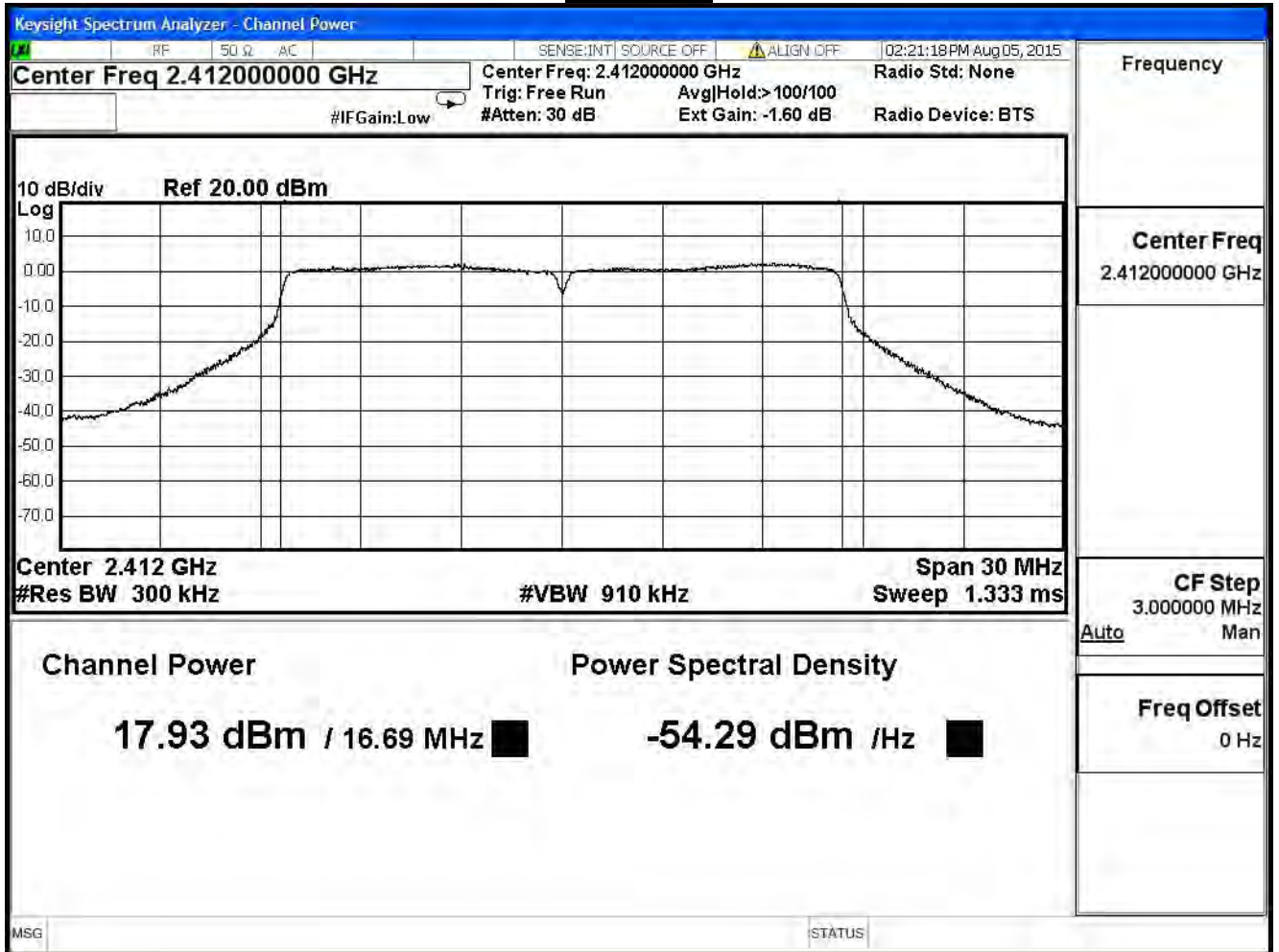
Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit_CDD Mode_AD890326		
Date of Test	2015/08/05	Test Site	SR7

IEEE 802.11g (ANT 2)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	17.93	≤ 30	Pass
6	2437	22.89	≤ 30	Pass
11	2462	16.71	≤ 30	Pass

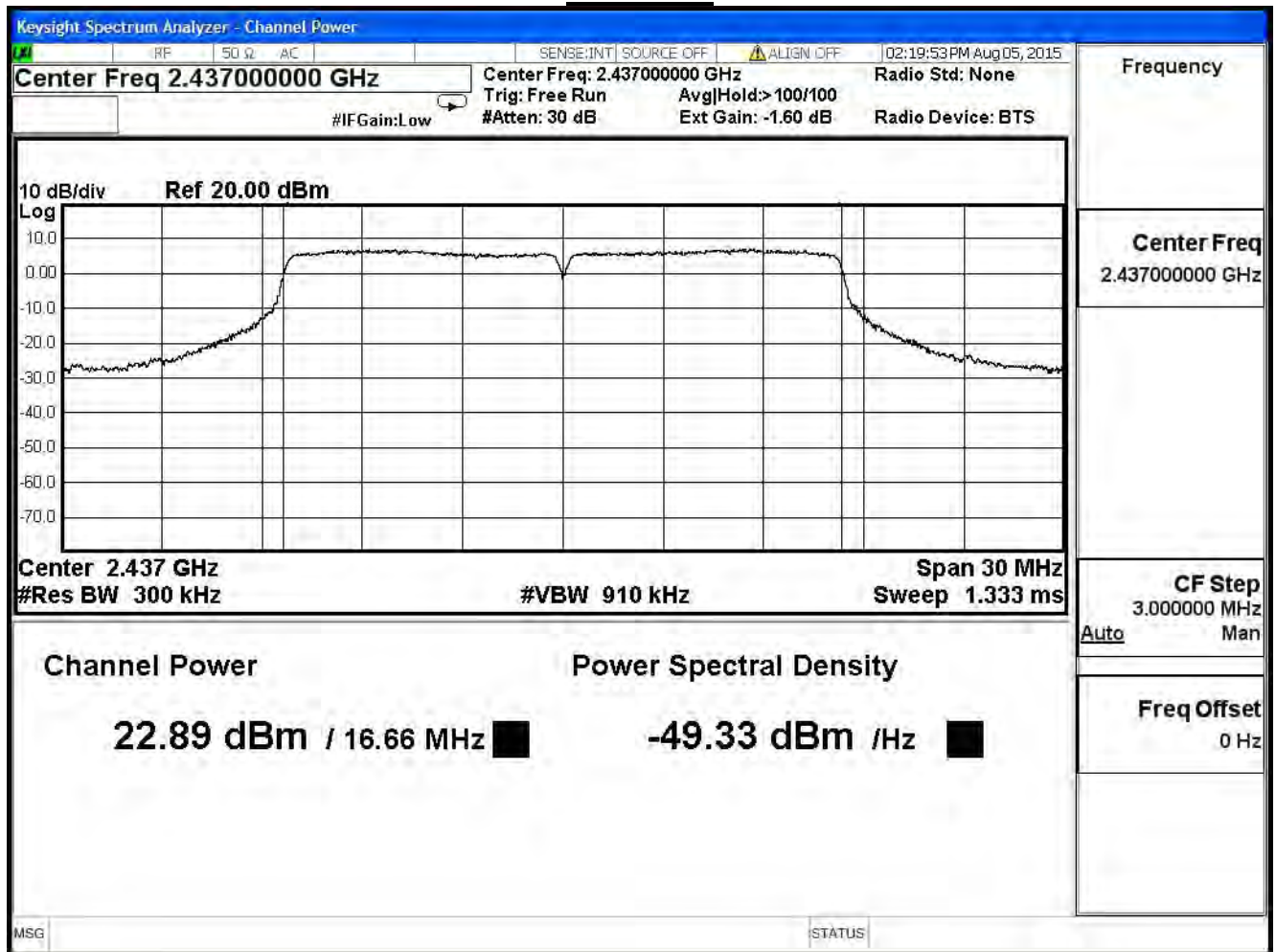
The worst emission of data rate is 6Mbps.

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
1	2412	17.93	--	--	--	--	--	--	30dBm
6	2437	22.89	22.79	22.53	22.33	22.20	22.08	21.96	30dBm
11	2462	16.71	--	--	--	--	--	--	30dBm

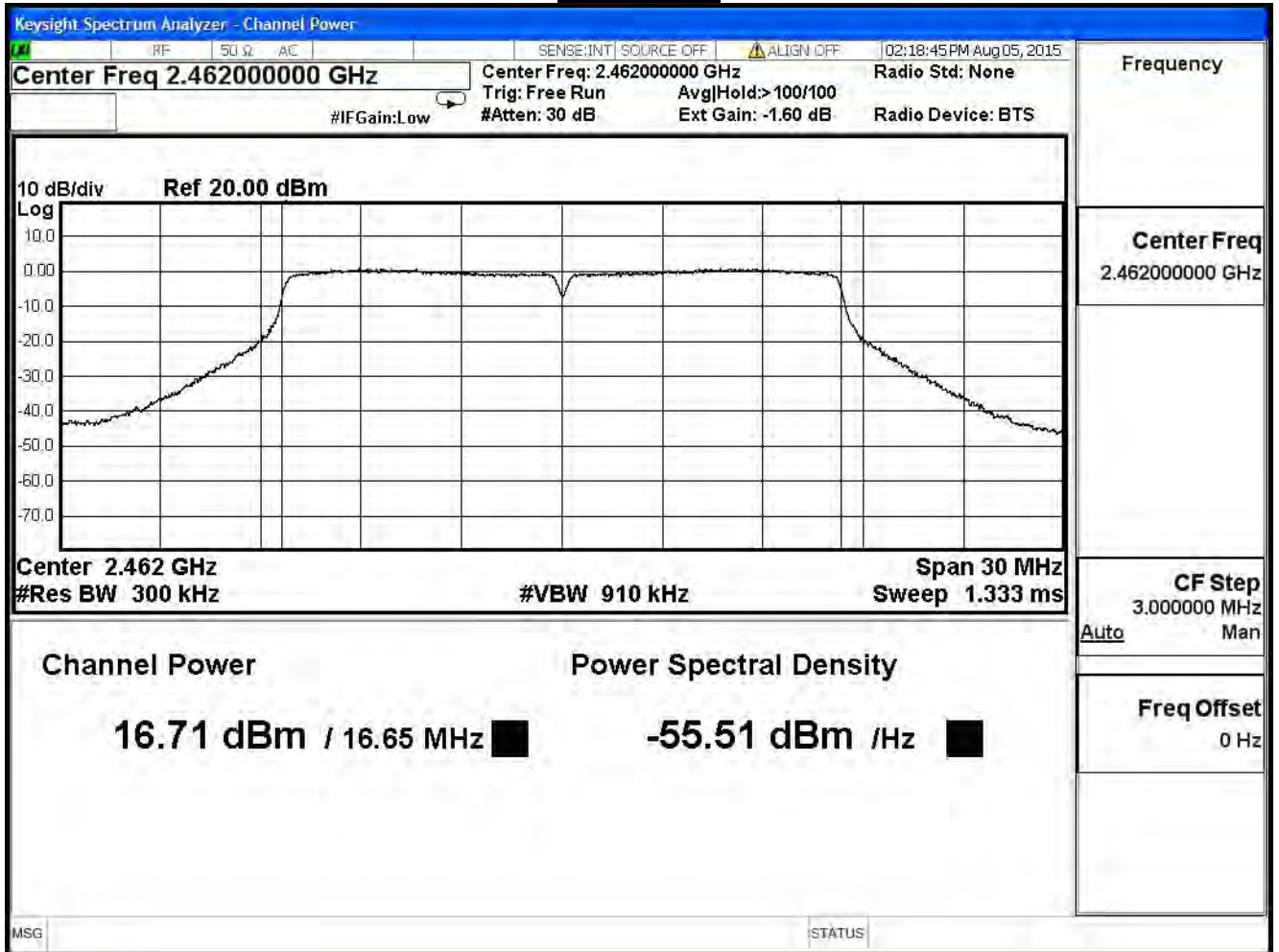
Channel 1



Channel 6



Channel 11



Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit_CDD Mode_AD890326		
Date of Test	2015/08/05	Test Site	SR7

IEEE 802.11g (ANT 0+1+2)

Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
1	2412	22.46	≤ 30	Pass
6	2437	27.45	≤ 30	Pass
11	2462	21.29	≤ 30	Pass

The worst emission of data rate is 6Mbps.

Peak Power Output (dBm)									
Channel	Frequency	Data Rate							Required Limit
No	(MHz)	6	12	18	24	36	48	54	
1	2412	22.46	--	--	--	--	--	--	30dBm
6	2437	27.45	27.34	27.15	26.94	26.74	26.58	26.42	30dBm
11	2462	21.29	--	--	--	--	--	--	30dBm

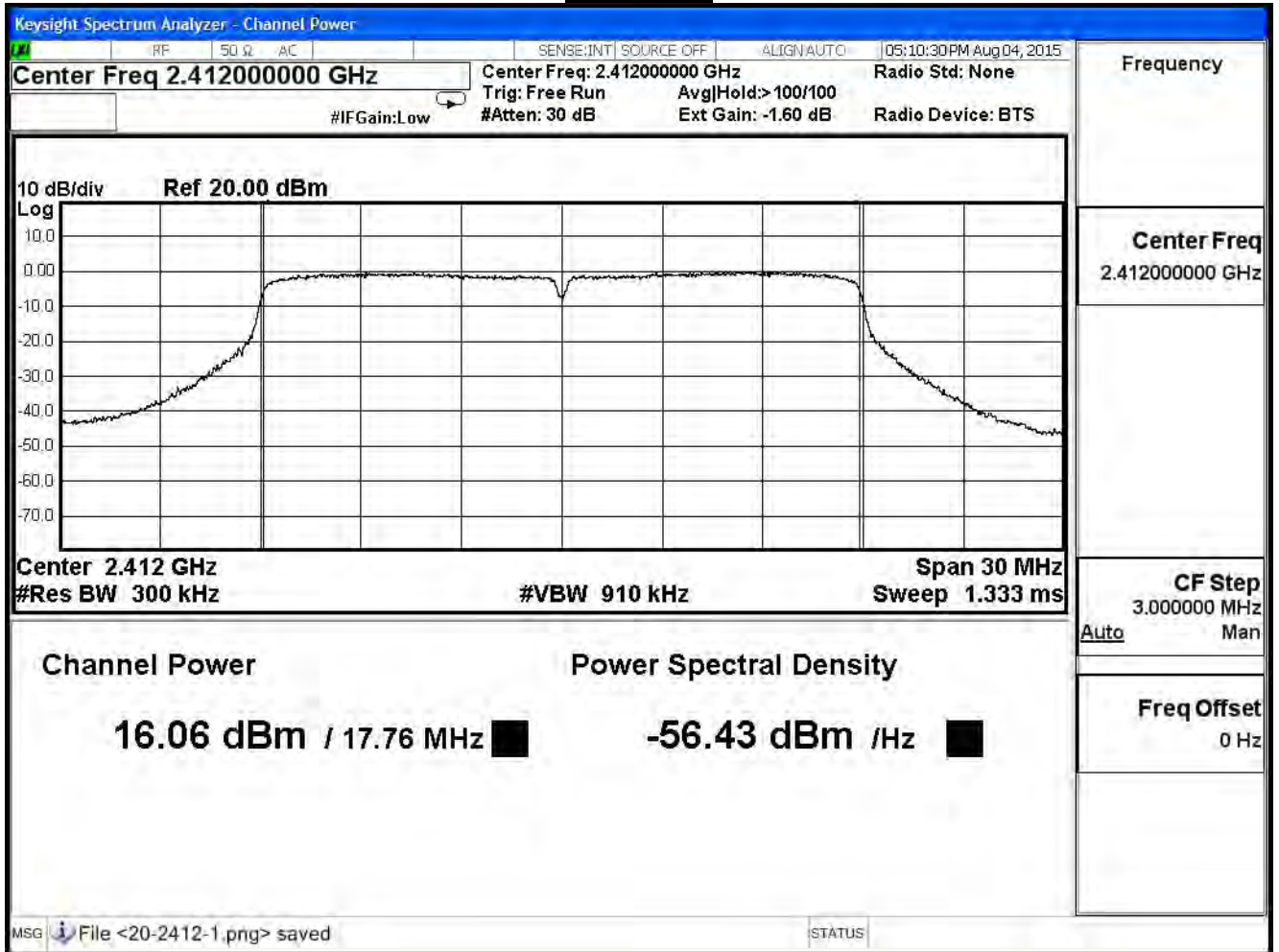
Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit_CDD Mode_AD890326		
Date of Test	2015/08/04	Test Site	SR7

IEEE 802.11n_20M (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	16.06	≤ 30	Pass
6	2437	22.58	≤ 30	Pass
11	2462	18.58	≤ 30	Pass

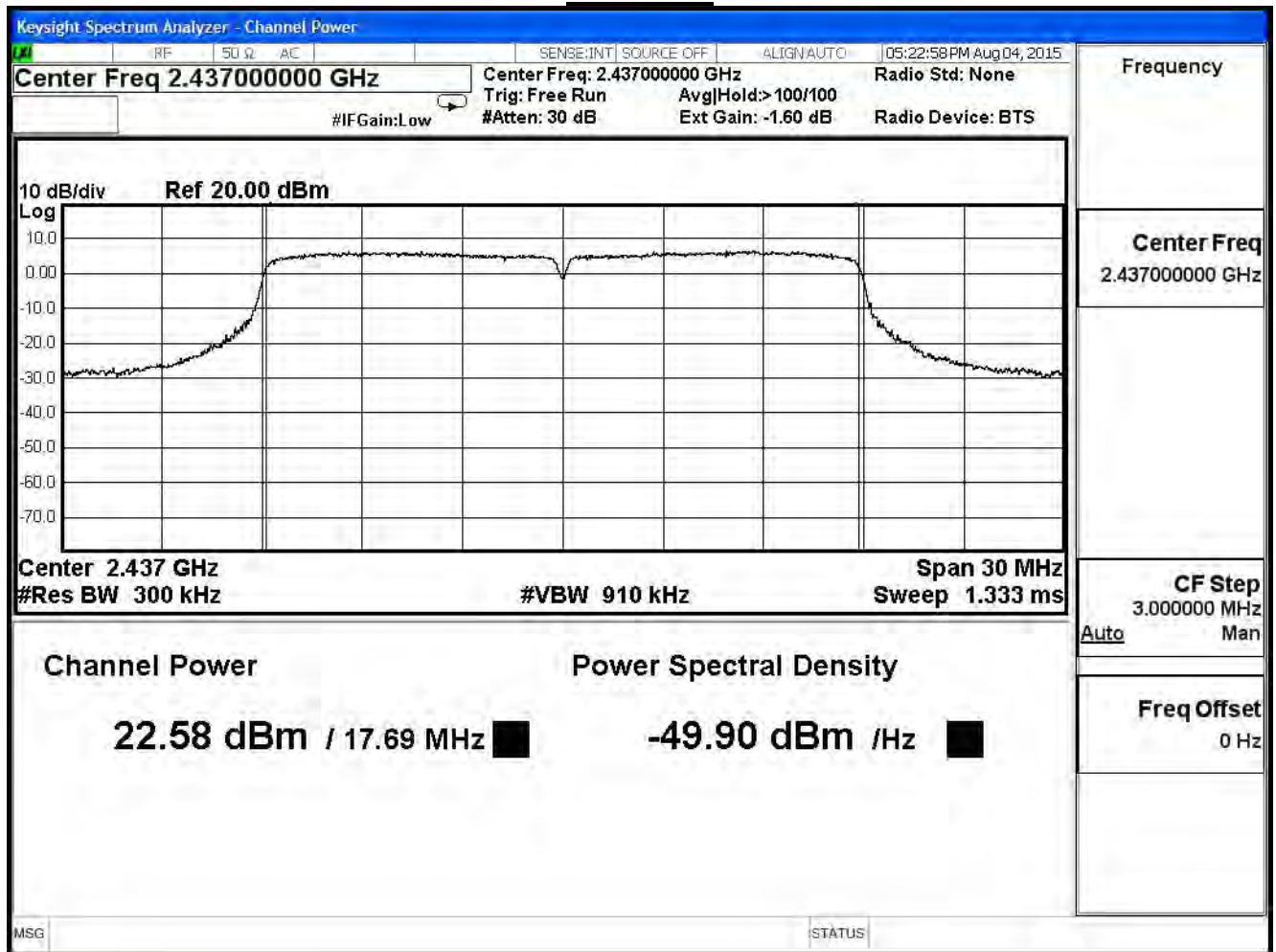
The worst emission of data rate is 6.5Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel	Frequency	Data Rate								
No	(MHz)	6.5	13	19.5	26	39	52	58.5	65	
1	2412	16.06	--	--	--	--	--	--	--	30dBm
6	2437	22.58	22.46	22.26	22.04	21.91	21.79	21.67	21.56	30dBm
11	2462	18.58	--	--	--	--	--	--	--	30dBm

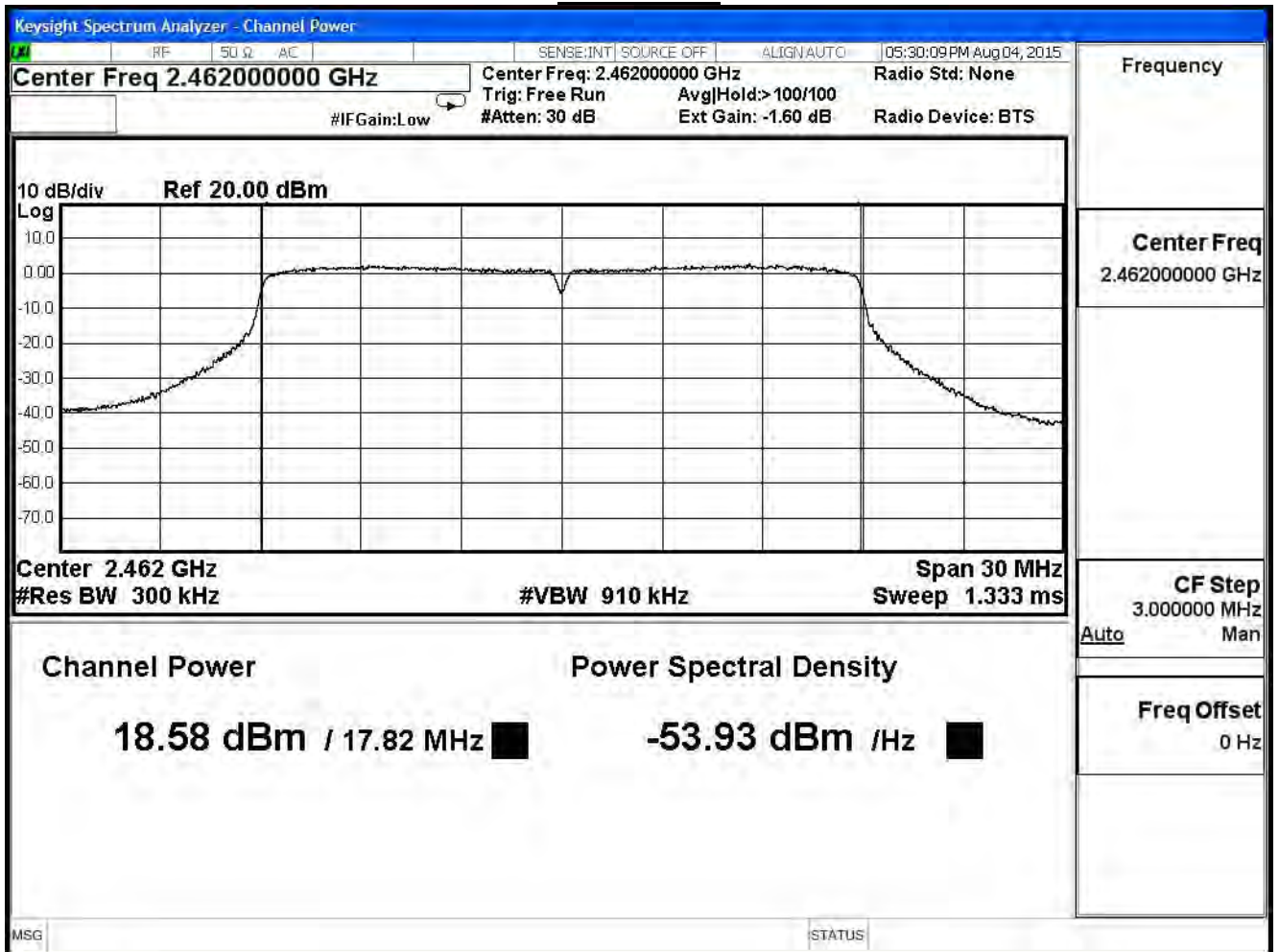
Channel 1



Channel 6



Channel 11



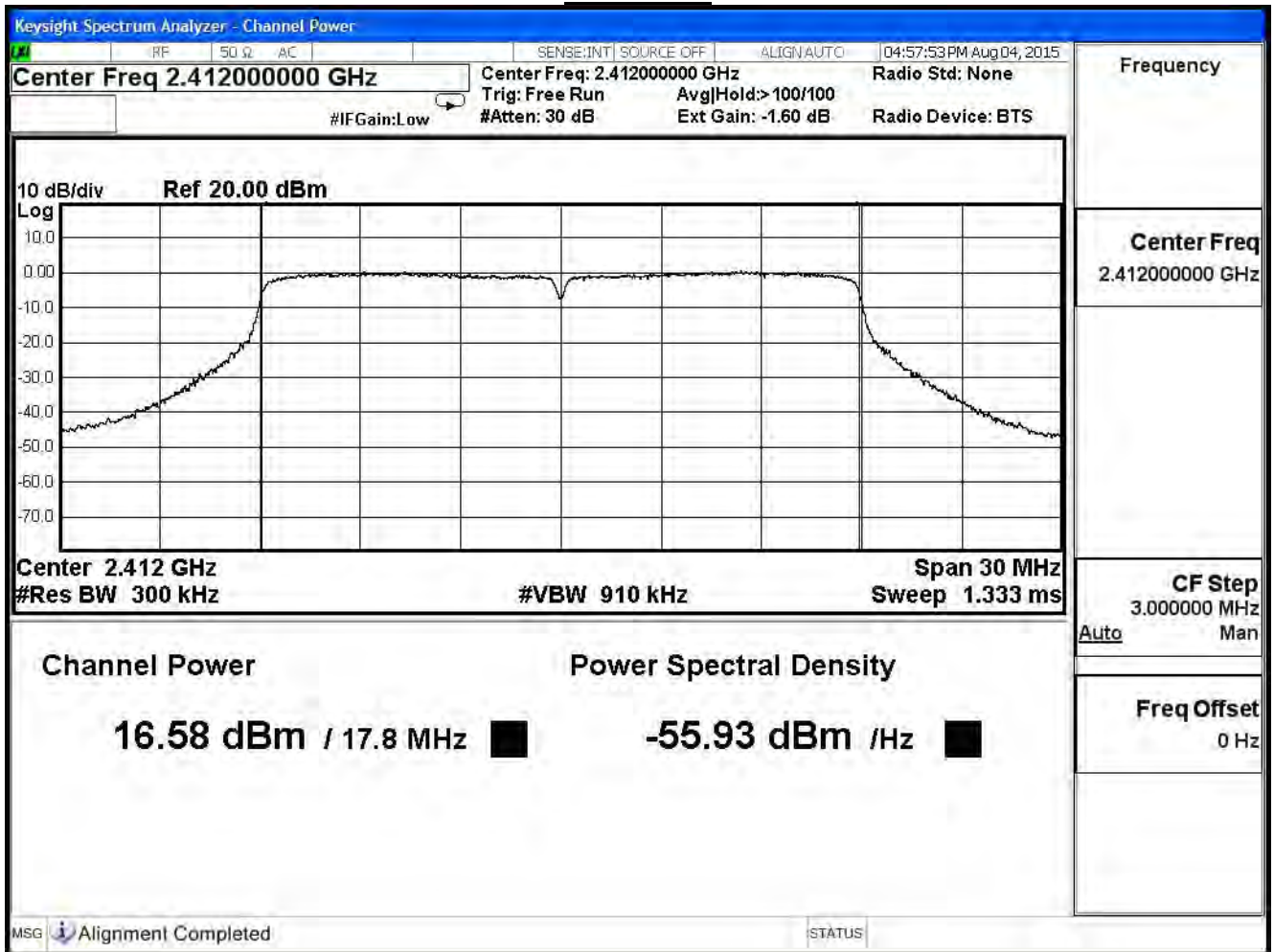
Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit_CDD Mode_AD890326		
Date of Test	2015/08/04	Test Site	SR7

IEEE 802.11n_20M (ANT 1)				
Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
1	2412	16.58	≤ 30	Pass
6	2437	22.67	≤ 30	Pass
11	2462	18.26	≤ 30	Pass

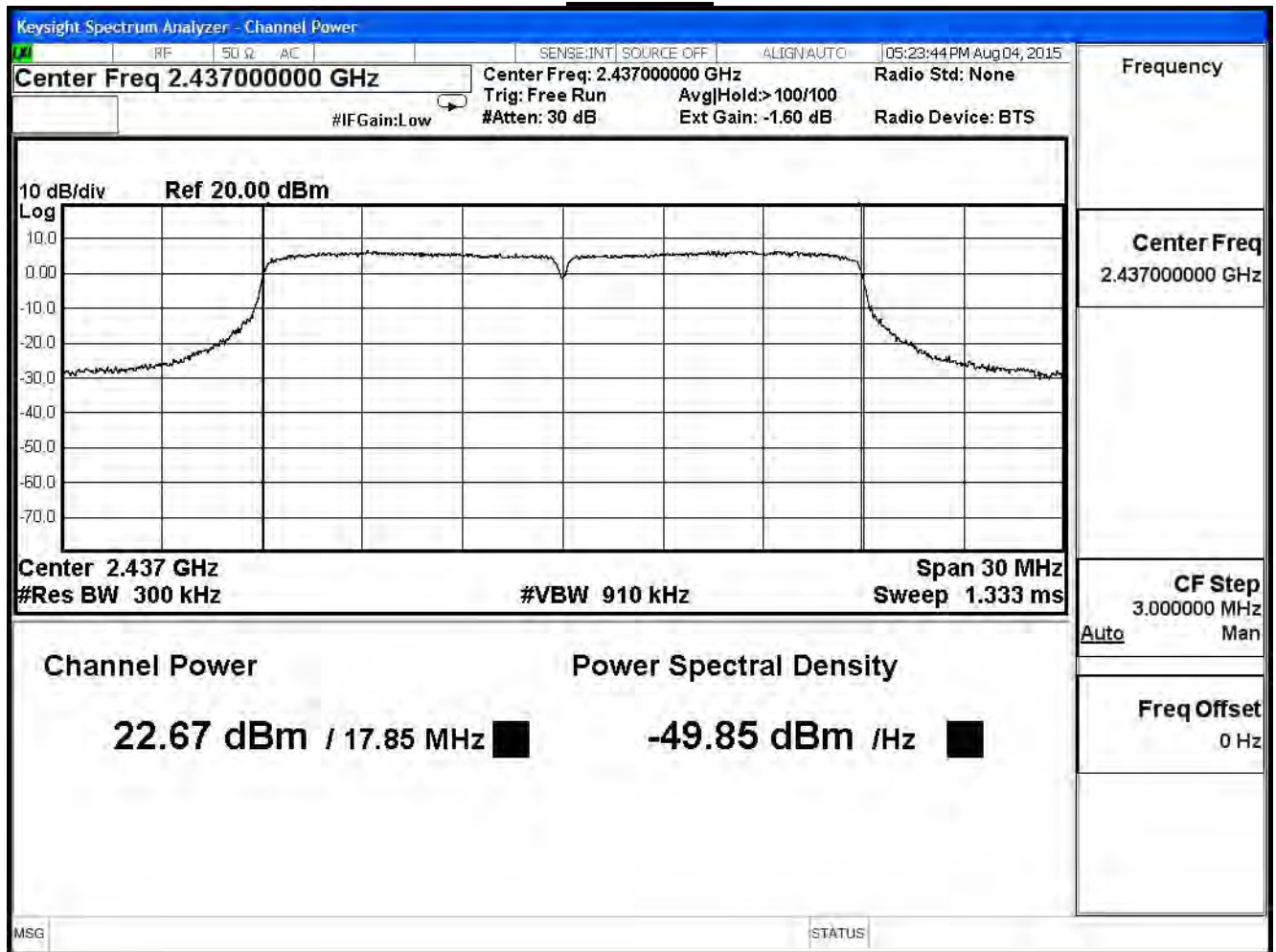
The worst emission of data rate is 6.5Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel	Frequency	Data Rate								
No	(MHz)	6.5	13	19.5	26	39	52	58.5	65	
1	2412	16.58	--	--	--	--	--	--	--	30dBm
6	2437	22.67	22.47	22.35	22.15	21.91	21.67	21.55	21.29	30dBm
11	2462	18.26	--	--	--	--	--	--	--	30dBm

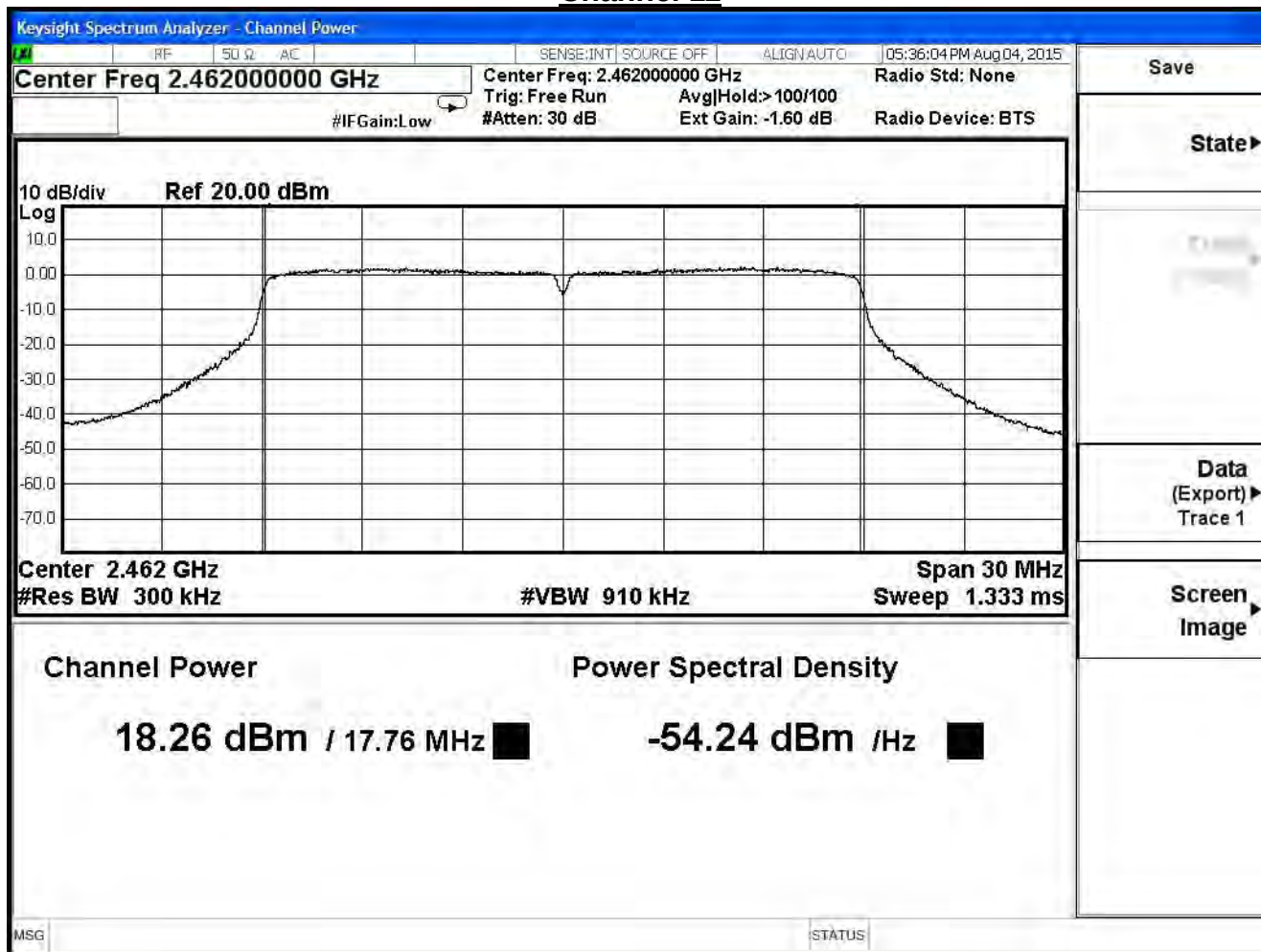
Channel 1



Channel 6



Channel 11



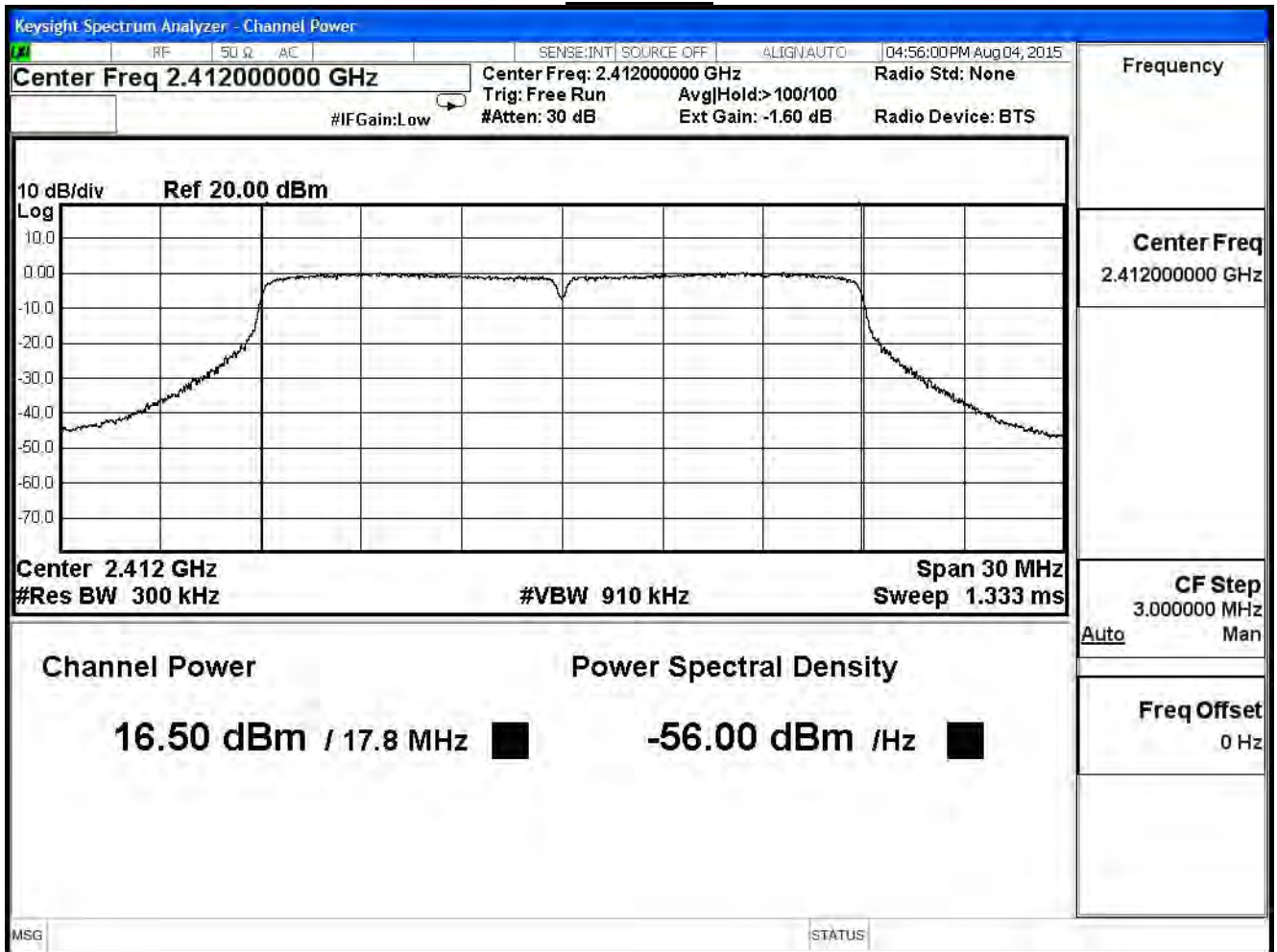
Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit_CDD Mode_AD890326		
Date of Test	2015/08/04	Test Site	SR7

IEEE 802.11n_20M (ANT 2)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	16.50	≤ 30	Pass
6	2437	22.10	≤ 30	Pass
11	2462	18.08	≤ 30	Pass

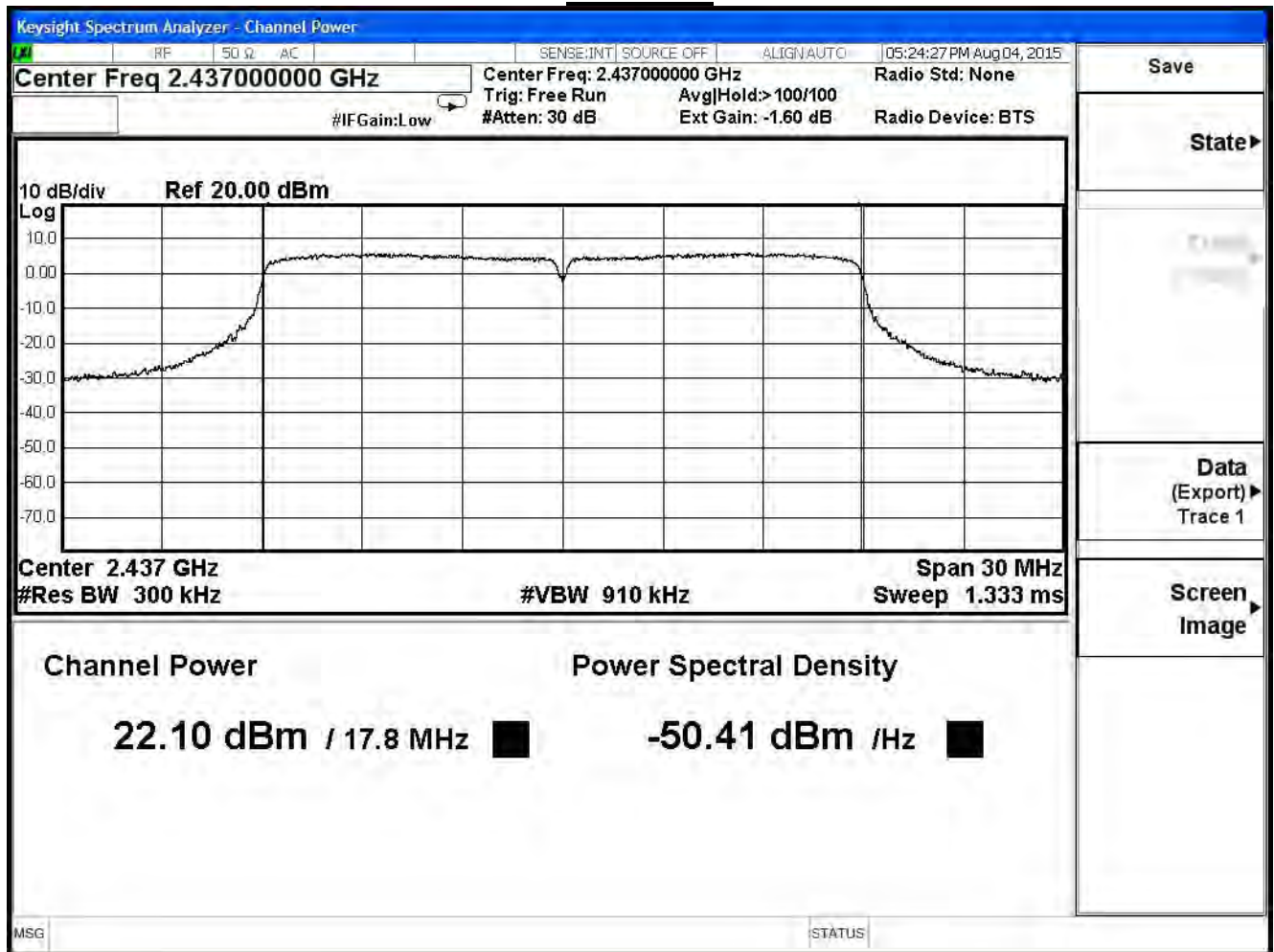
The worst emission of data rate is 6.5Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel	Frequency	Data Rate								
No	(MHz)	6.5	13	19.5	26	39	52	58.5	65	
1	2412	16.50	--	--	--	--	--	--	--	
6	2437	22.10	22.00	21.74	21.54	21.28	21.16	21.04	20.92	30dBm
11	2462	18.08	--	--	--	--	--	--	--	30dBm

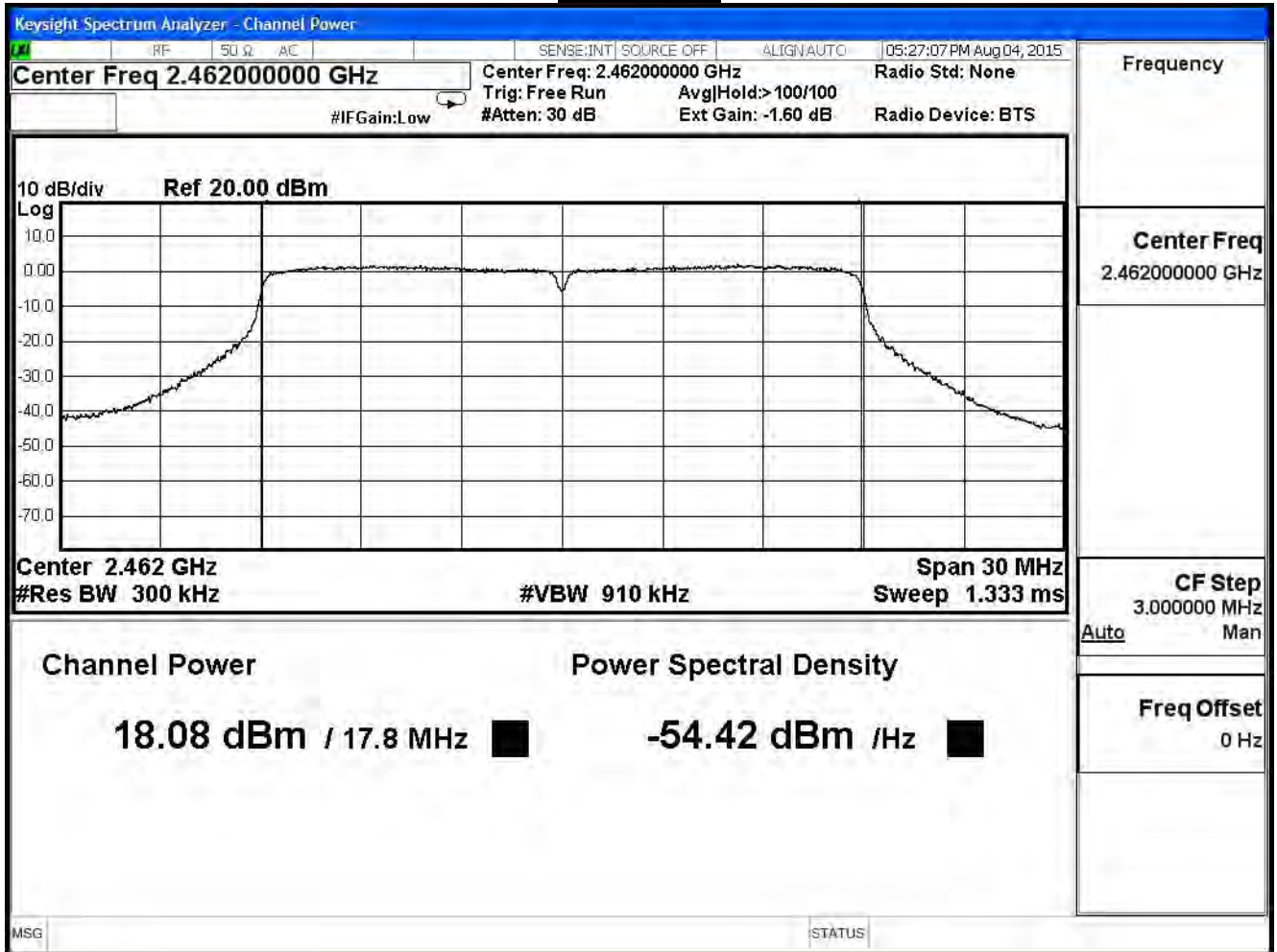
Channel 1



Channel 6



Channel 11



Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit_CDD Mode_AD890326		
Date of Test	2015/08/04	Test Site	SR7

IEEE 802.11n_20M (ANT 0+1+2)

Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
1	2412	21.16	≤ 30	Pass
6	2437	27.23	≤ 30	Pass
11	2462	23.08	≤ 30	Pass

The worst emission of data rate is 6.5Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel	Frequency	Data Rate								
No	(MHz)	6.5	13	19.5	26	39	52	58.5	65	
1	2412	21.16	--	--	--	--	--	--	--	30dBm
6	2437	27.23	27.09	26.90	26.69	26.48	26.32	26.20	26.04	30dBm
11	2462	23.08	--	--	--	--	--	--	--	30dBm

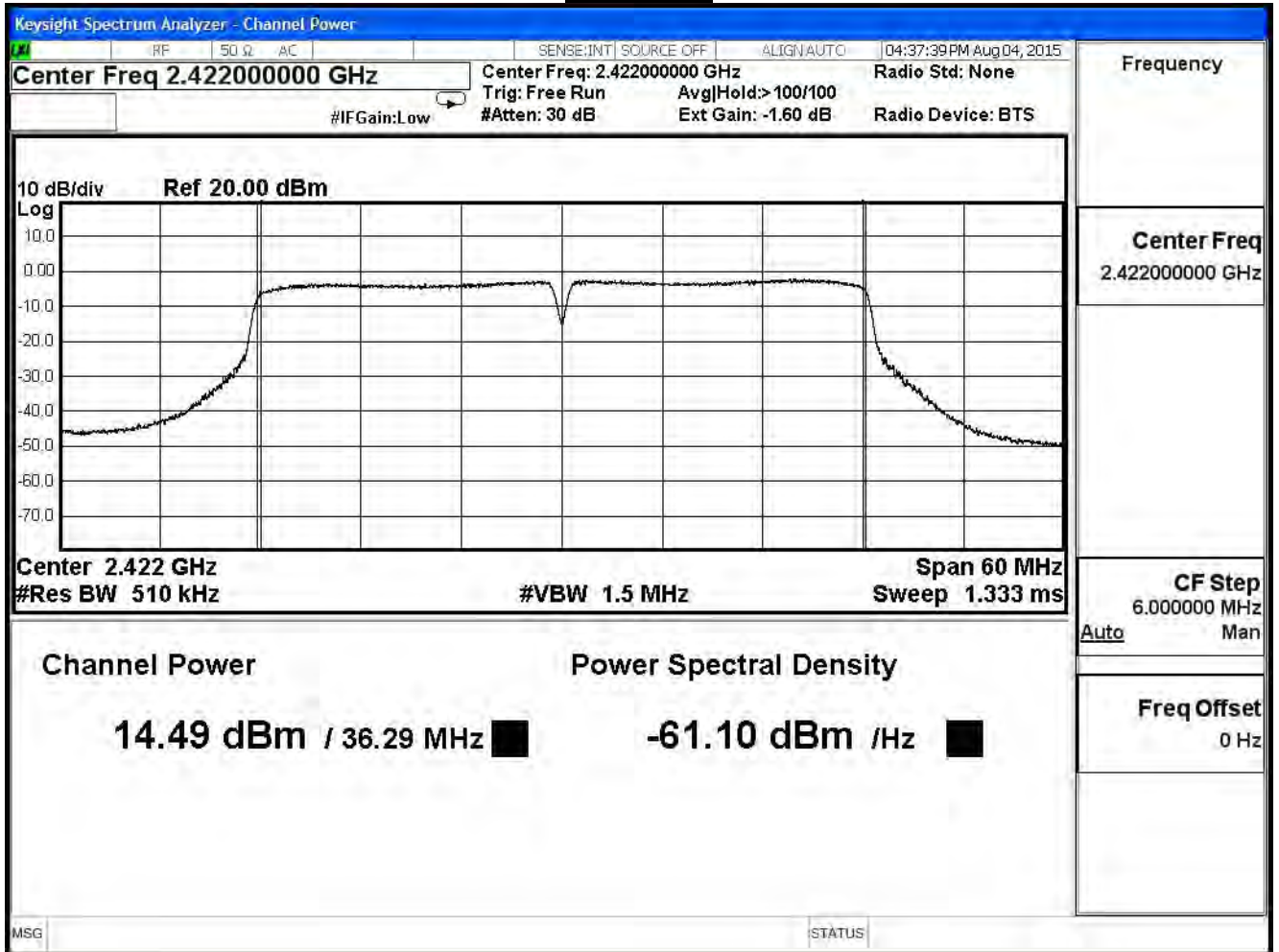
Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit_CDD Mode_AD890326		
Date of Test	2015/08/04	Test Site	SR7

IEEE 802.11n_40M(ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	14.49	≤ 30	Pass
6	2437	18.60	≤ 30	Pass
9	2452	16.52	≤ 30	Pass

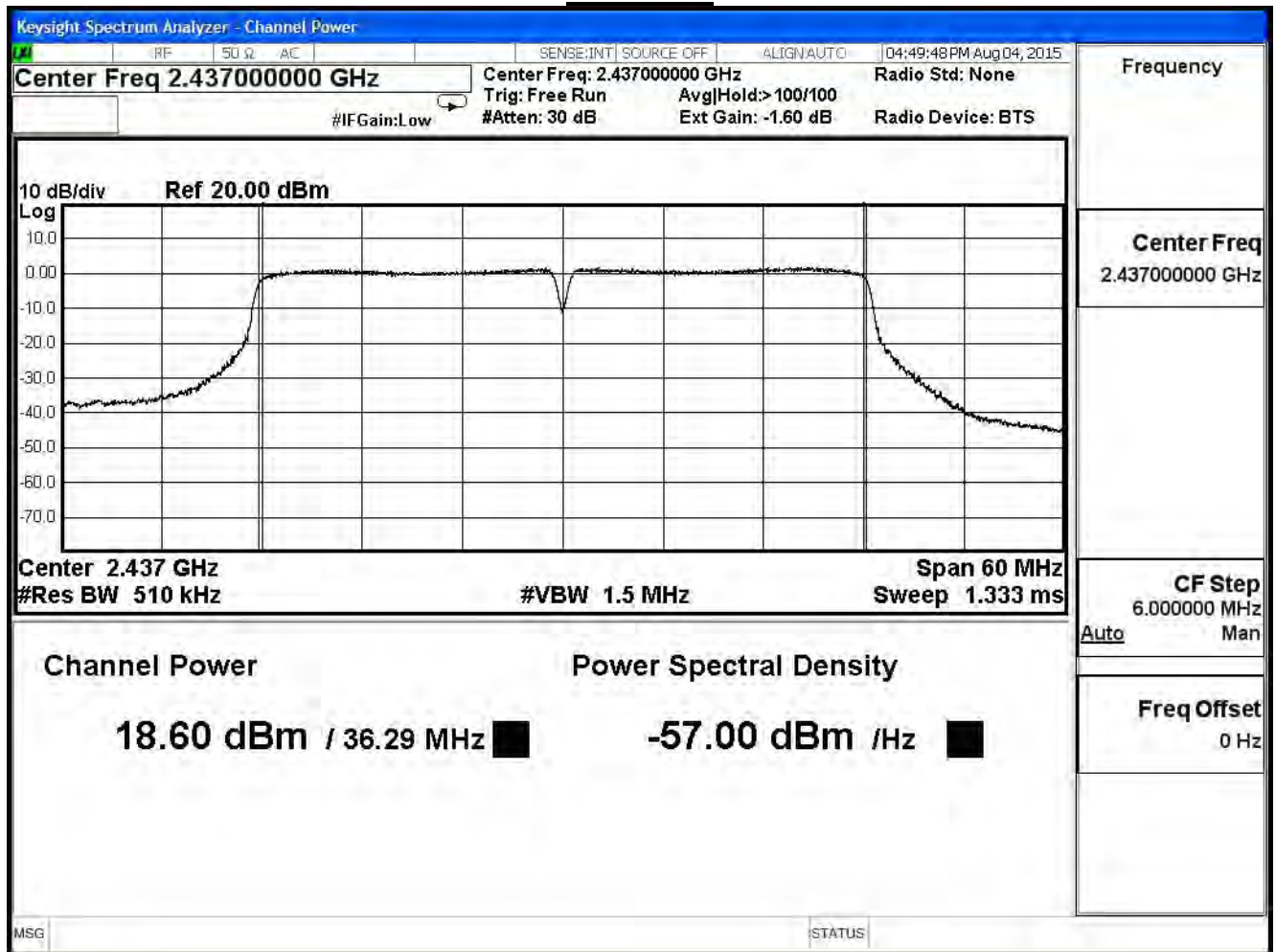
The worst emission of data rate is 13.5Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel	Frequency	Data Rate								
No	(MHz)	13.5	27	40.5	54	81	108	121.5	135	
3	2422	14.49	--	--	--	--	--	--	--	30dBm
6	2437	18.60	18.50	18.28	18.18	18.08	17.84	17.58	17.34	30dBm
9	2452	16.52	--	--	--	--	--	--	--	30dBm

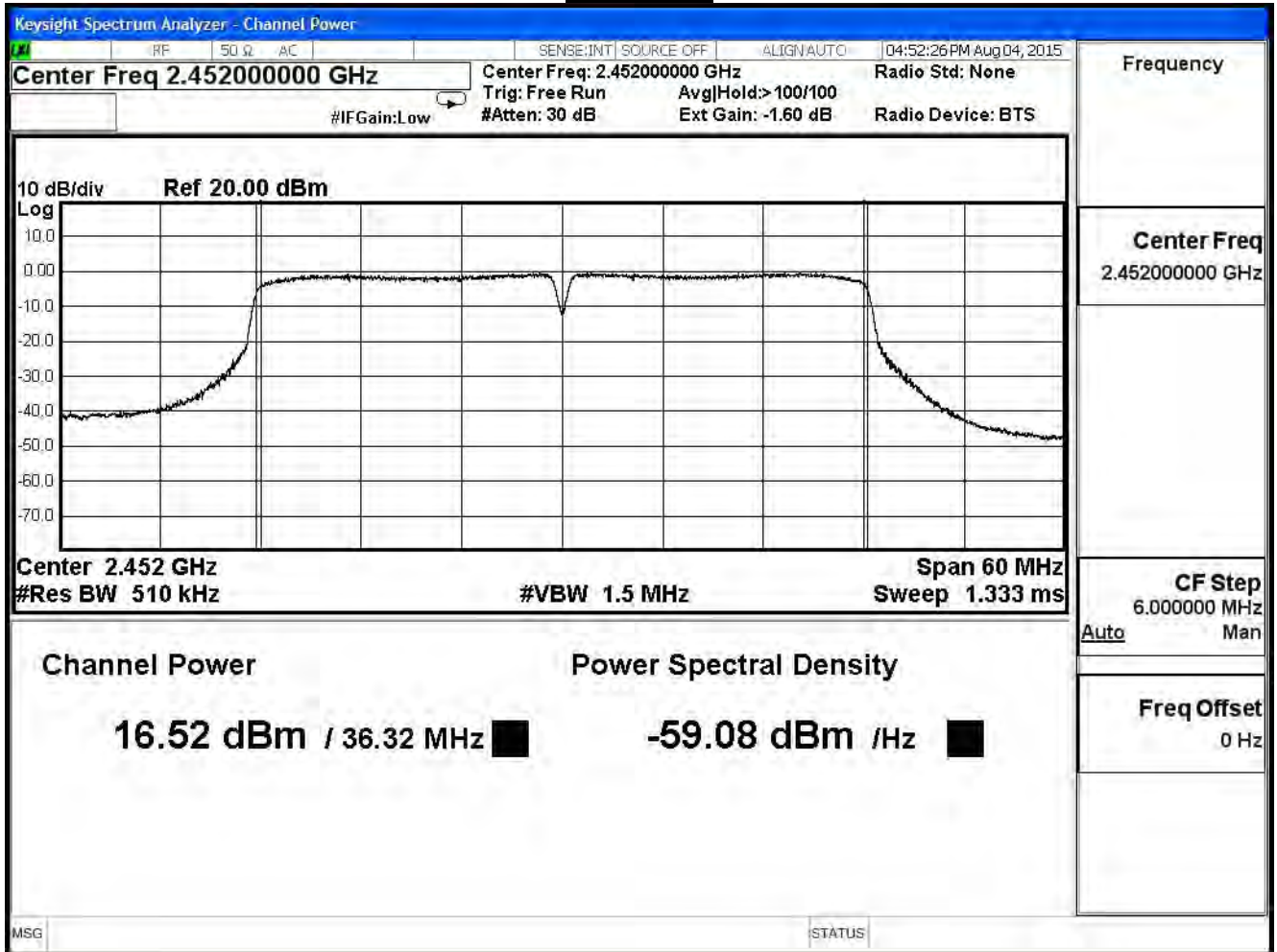
Channel 3



Channel 6



Channel 9



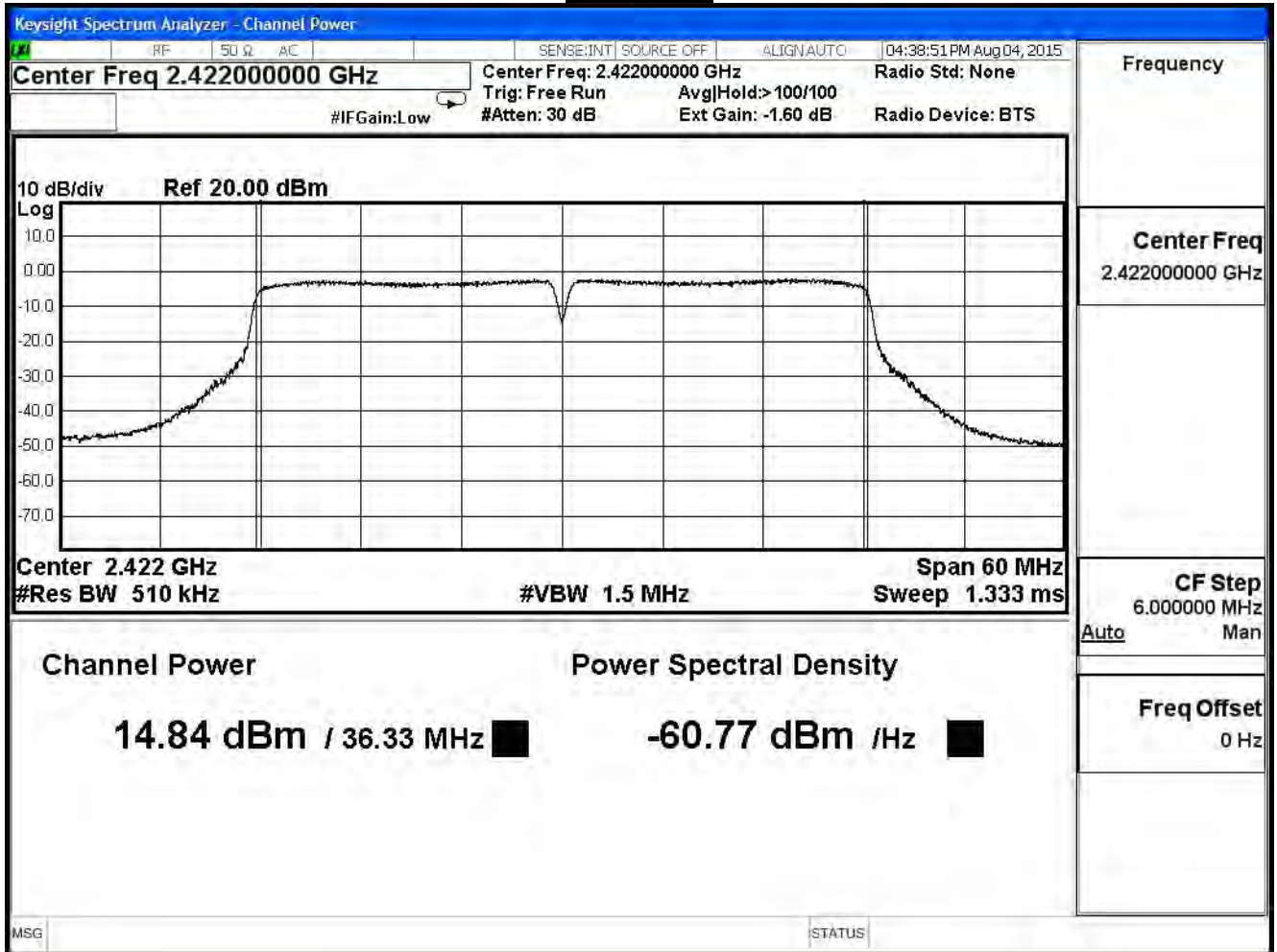
Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit_CDD Mode_AD890326		
Date of Test	2015/08/04	Test Site	SR7

IEEE 802.11n_40M (ANT 1)				
Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
3	2422	14.84	≤ 30	Pass
6	2437	18.48	≤ 30	Pass
9	2452	16.10	≤ 30	Pass

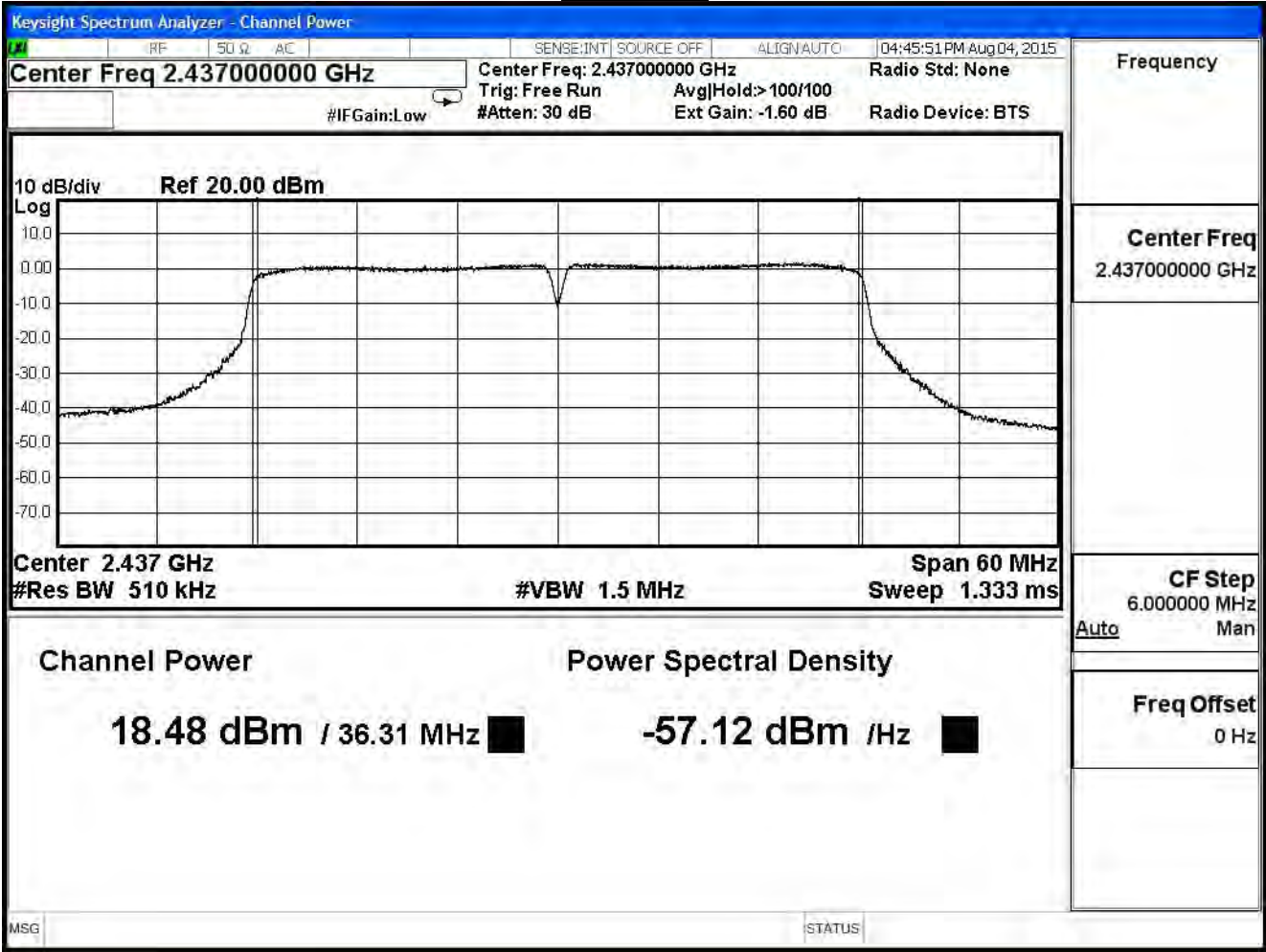
The worst emission of data rate is 13.5Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel	Frequency	Data Rate								
No	(MHz)	13.5	27	40.5	54	81	108	121.5	135	
3	2422	14.84	--	--	--	--	--	--	--	30dBm
6	2437	18.48	18.28	18.08	17.82	17.72	17.48	17.36	17.24	30dBm
9	2452	16.10	--	--	--	--	--	--	--	30dBm

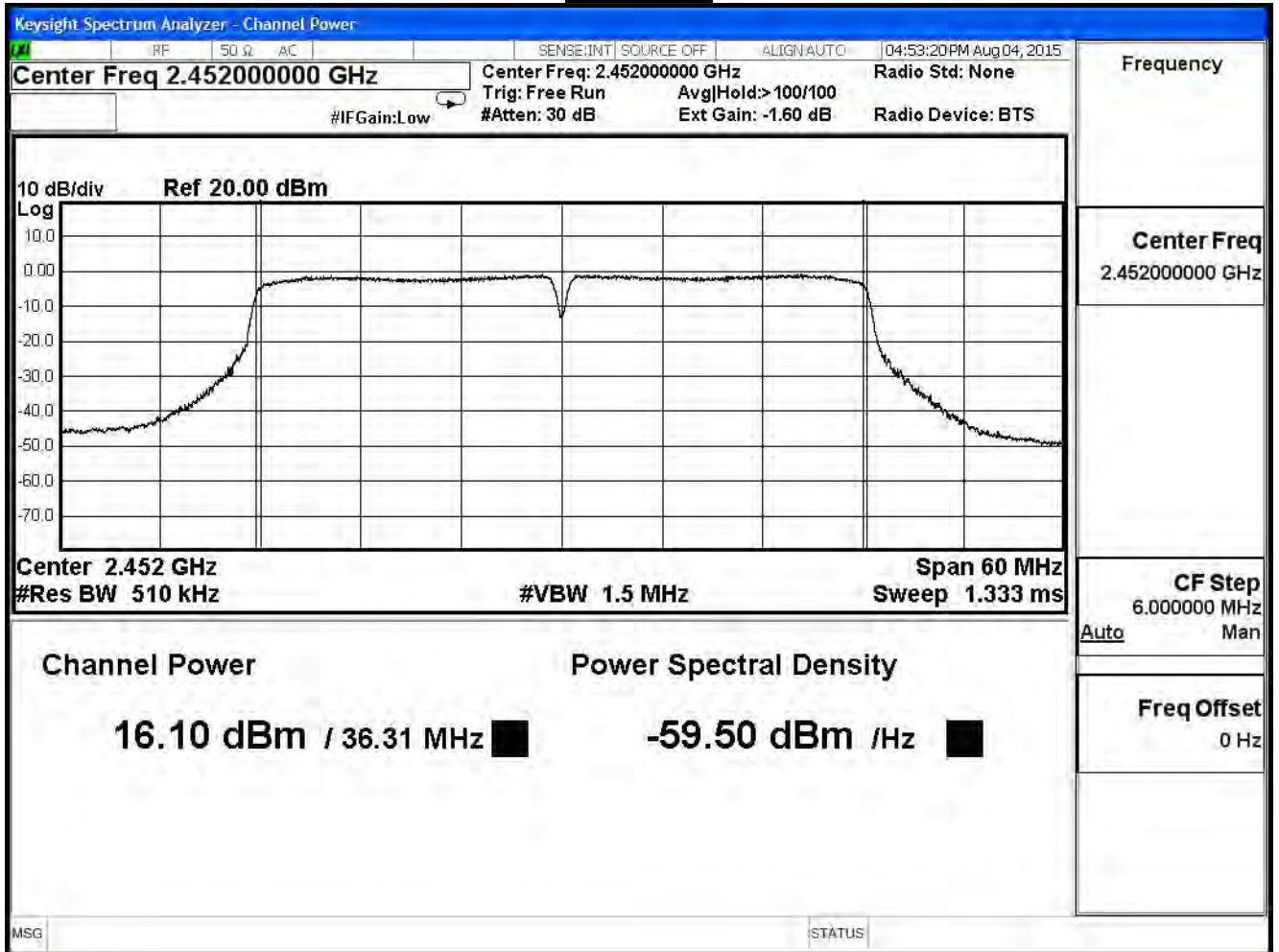
Channel 3



Channel 6



Channel 9



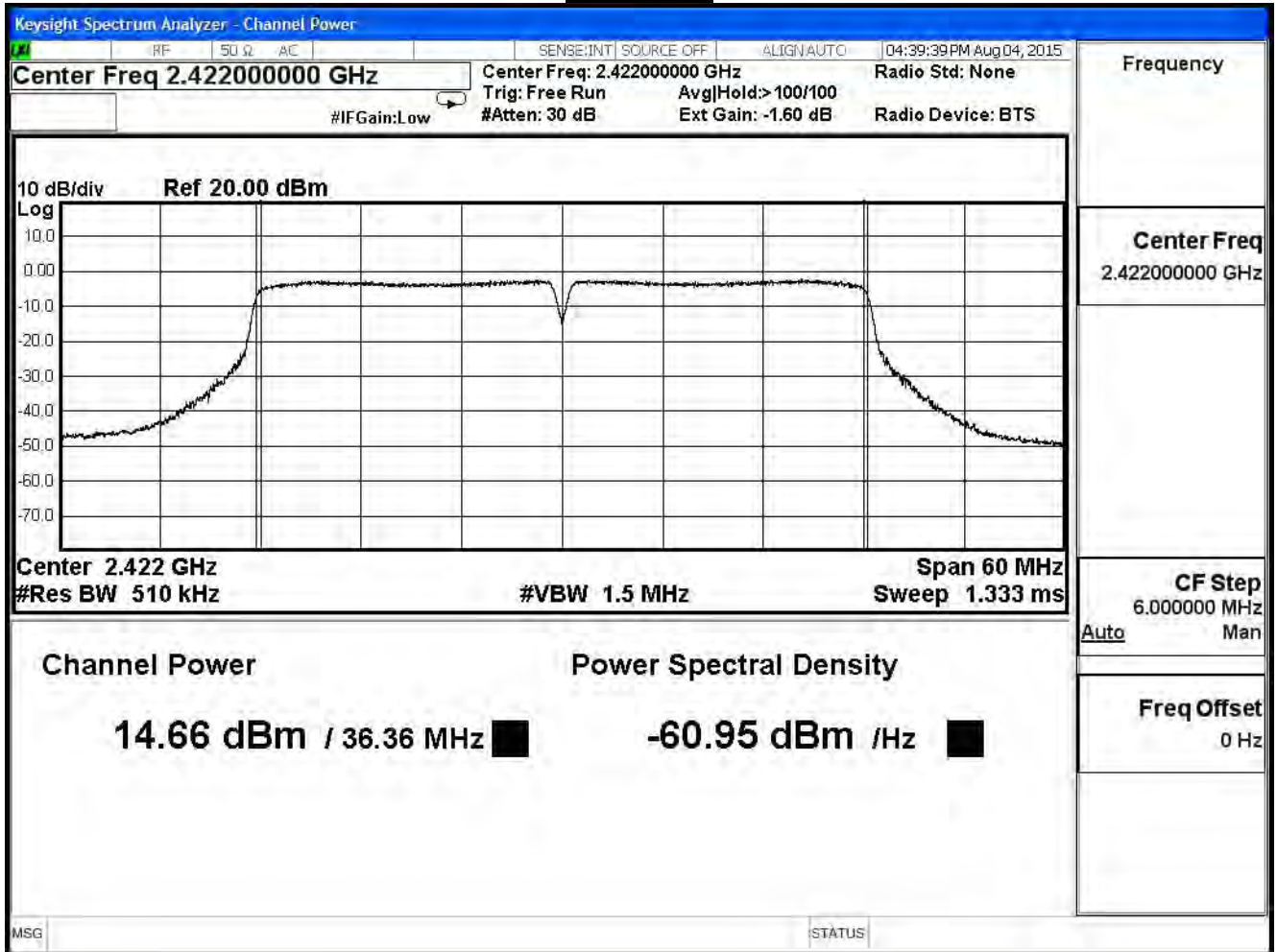
Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit_CDD Mode_AD890326		
Date of Test	2015/08/04	Test Site	SR7

IEEE 802.11n_40M (ANT 2)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	14.66	≤ 30	Pass
6	2437	18.86	≤ 30	Pass
9	2452	16.28	≤ 30	Pass

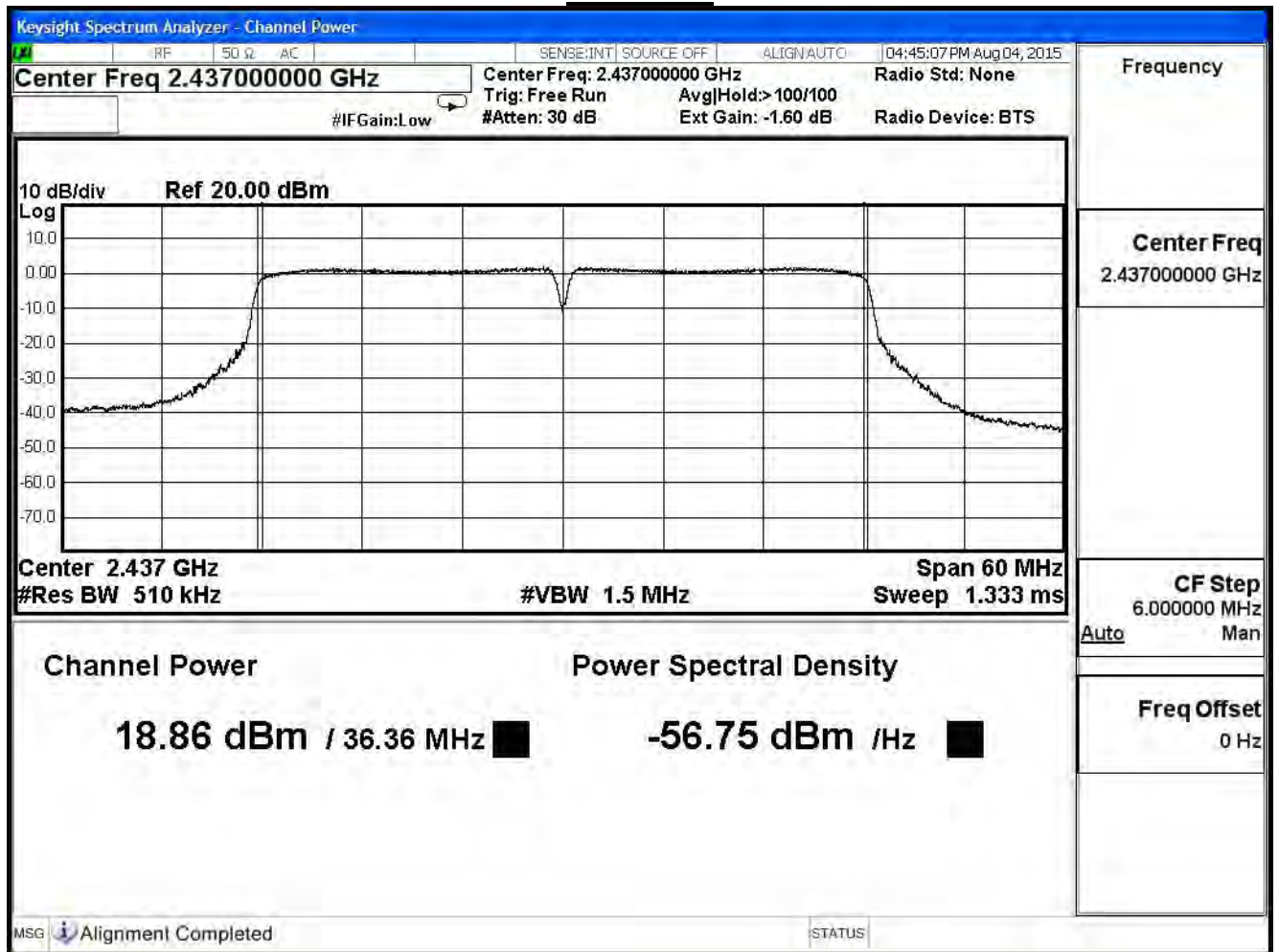
The worst emission of data rate is 13.5Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel	Frequency	Data Rate								
No	(MHz)	13.5	27	40.5	54	81	108	121.5	135	
3	2422	14.66	--	--	--	--	--	--	--	30dBm
6	2437	18.86	18.66	18.55	18.45	18.33	18.21	18.09	17.85	30dBm
9	2452	16.28	--	--	--	--	--	--	--	30dBm

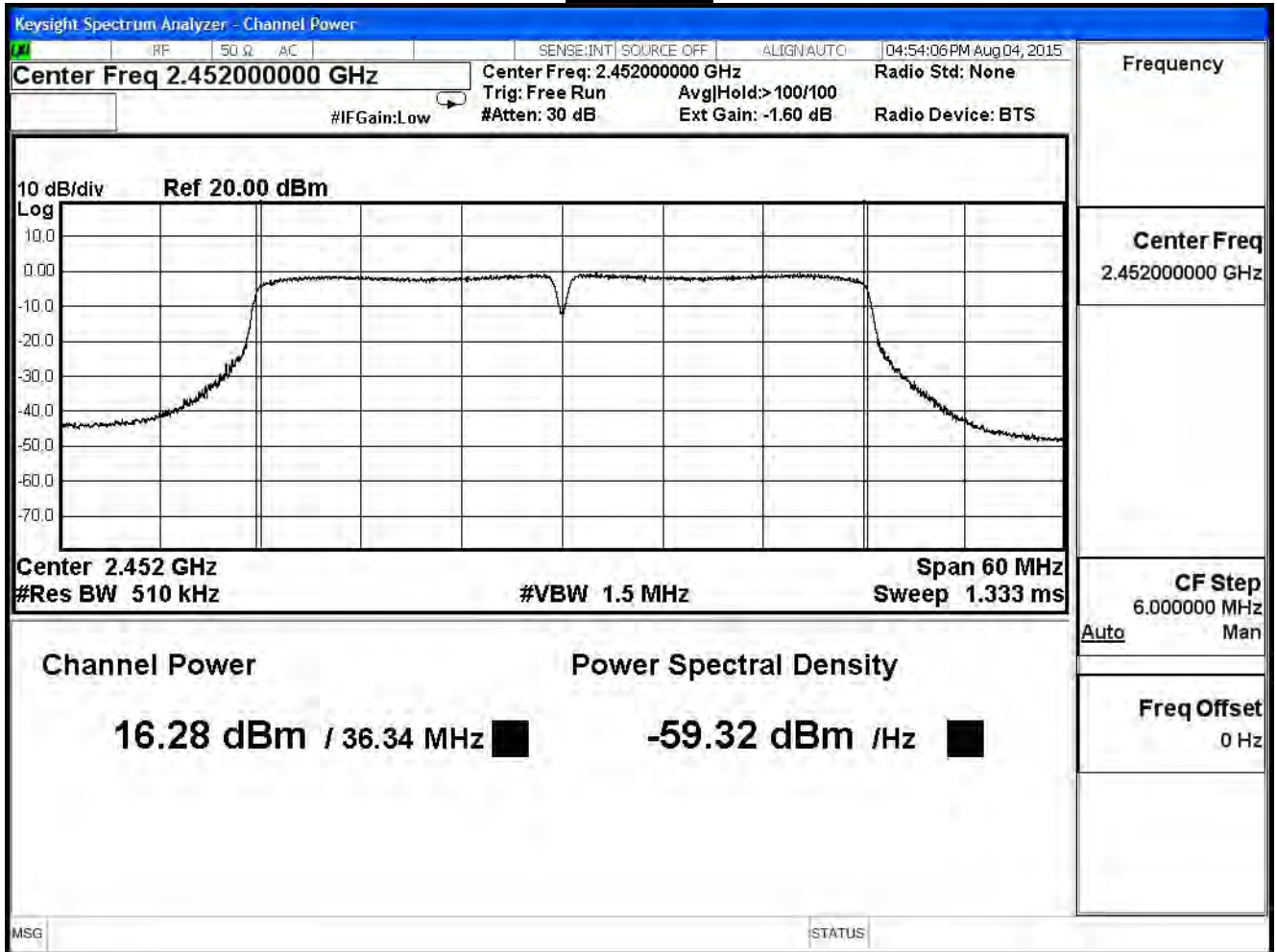
Channel 3



Channel 6



Channel 9



Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit_CDD Mode_AD890326		
Date of Test	2015/08/04	Test Site	SR7

IEEE 802.11n_40M (ANT 0+1+2)

Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
3	2422	19.44	≤ 30	Pass
6	2437	23.42	≤ 30	Pass
9	2452	21.07	≤ 30	Pass

The worst emission of data rate is 13.5Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel	Frequency	Data Rate								
No	(MHz)	13.5	27	40.5	54	81	108	121.5	135	
3	2422	19.44	--	--	--	--	--	--	--	30dBm
6	2437	23.42	23.25	23.08	22.93	22.82	22.62	22.46	22.26	30dBm
9	2452	21.07	--	--	--	--	--	--	--	30dBm

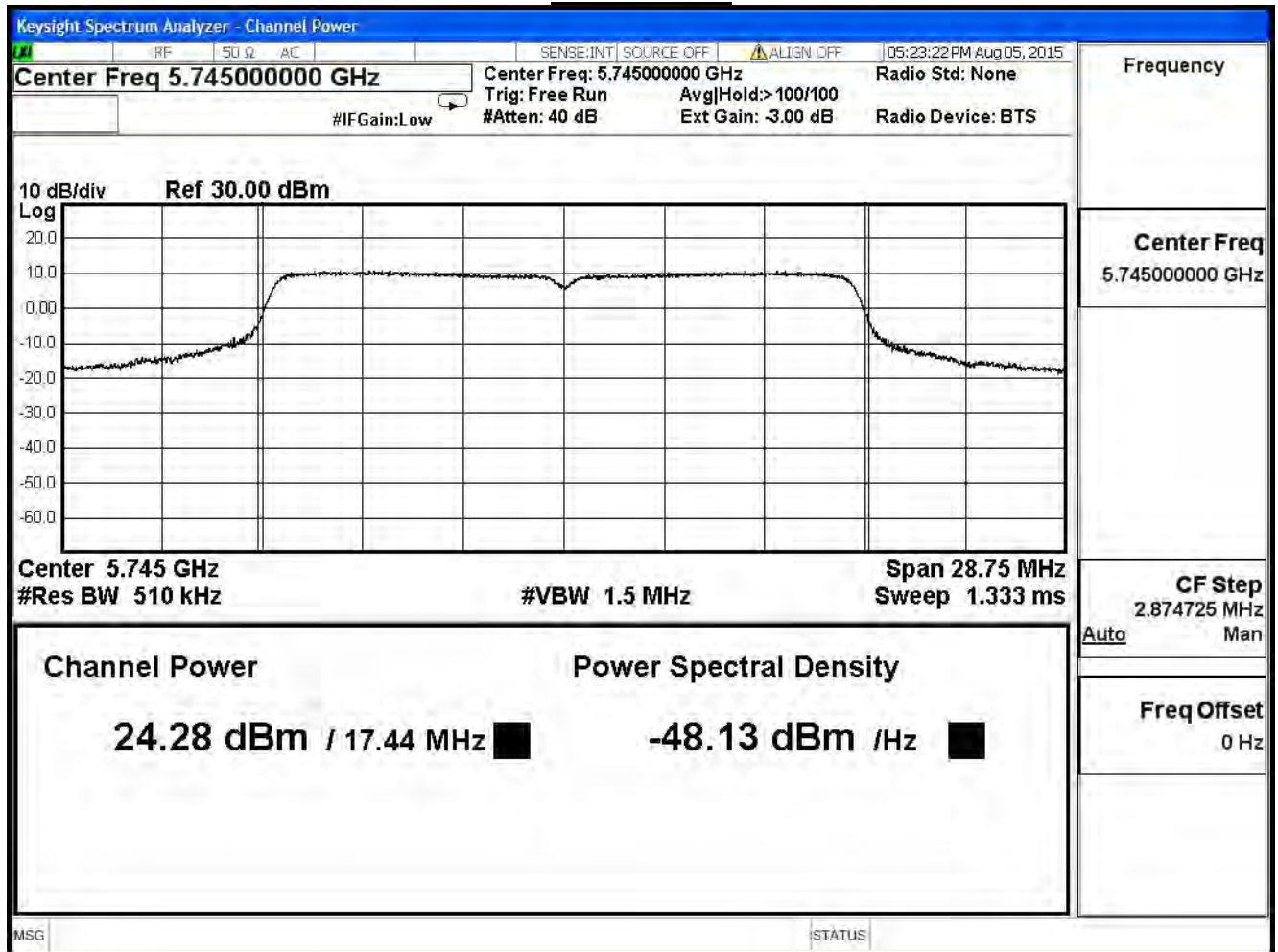
Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit_CDD Mode_AD890326		
Date of Test	2015/08/05	Test Site	SR7

IEEE 802.11a (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	24.28	≤ 30	Pass
157	5785	22.75	≤ 30	Pass
165	5825	22.35	≤ 30	Pass

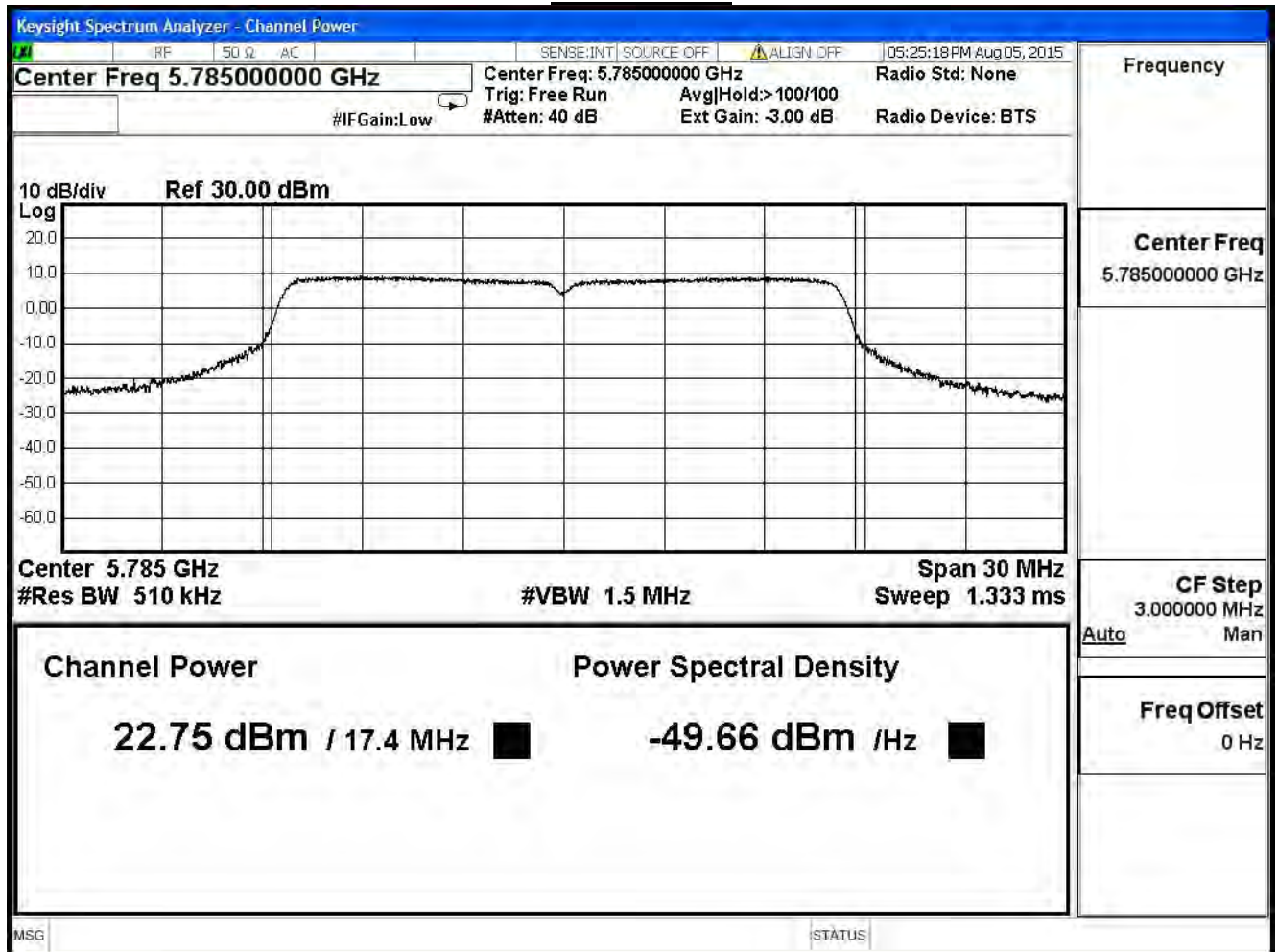
The worst emission of data rate is 6Mbps.

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
149	5745	24.28	--	--	--	--	--	--	30dBm
157	5785	22.75	22.65	22.55	22.35	22.25	22.05	21.95	30dBm
165	5825	22.35	--	--	--	--	--	--	30dBm

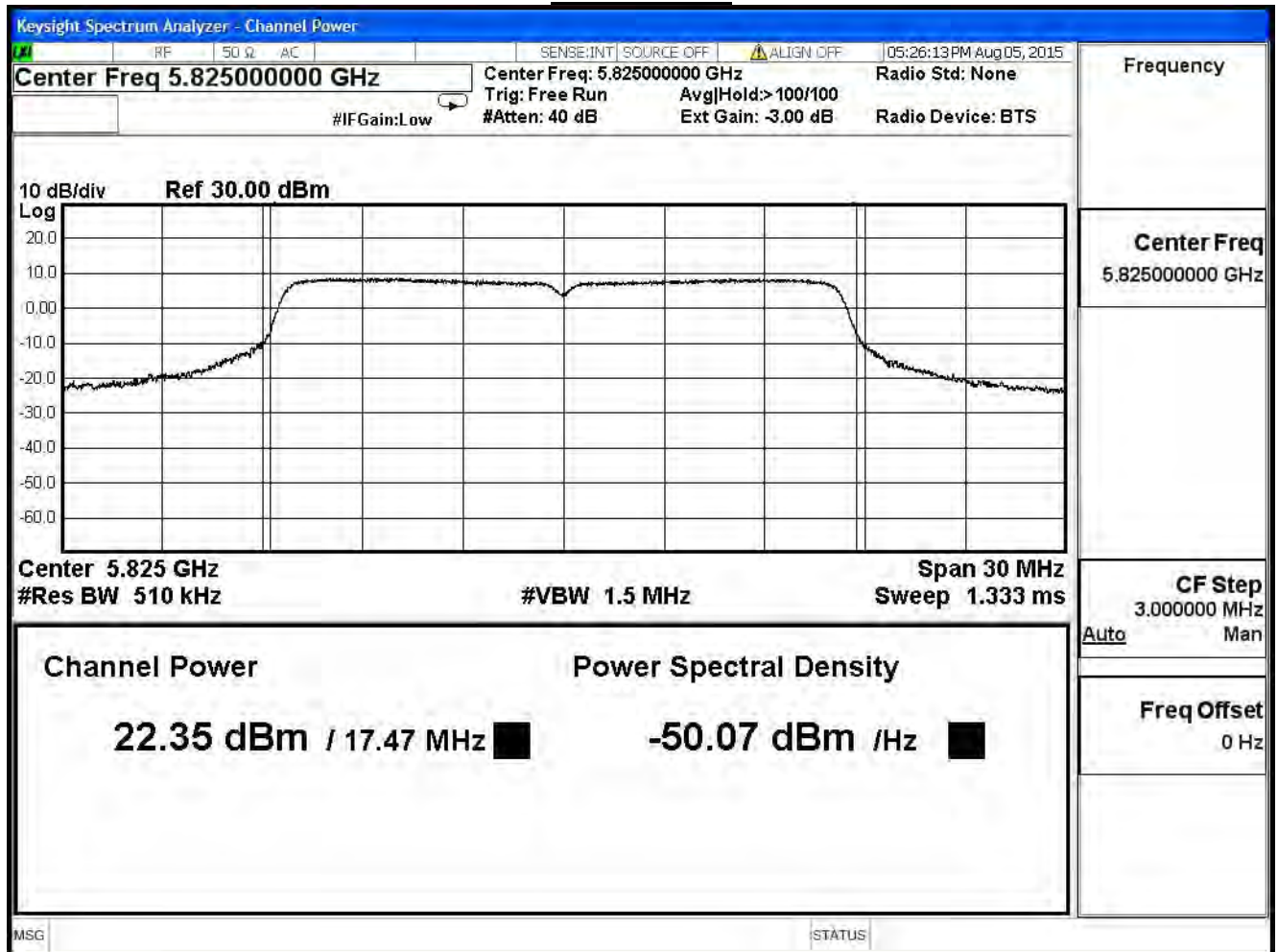
Channel 149



Channel 157



Channel 165



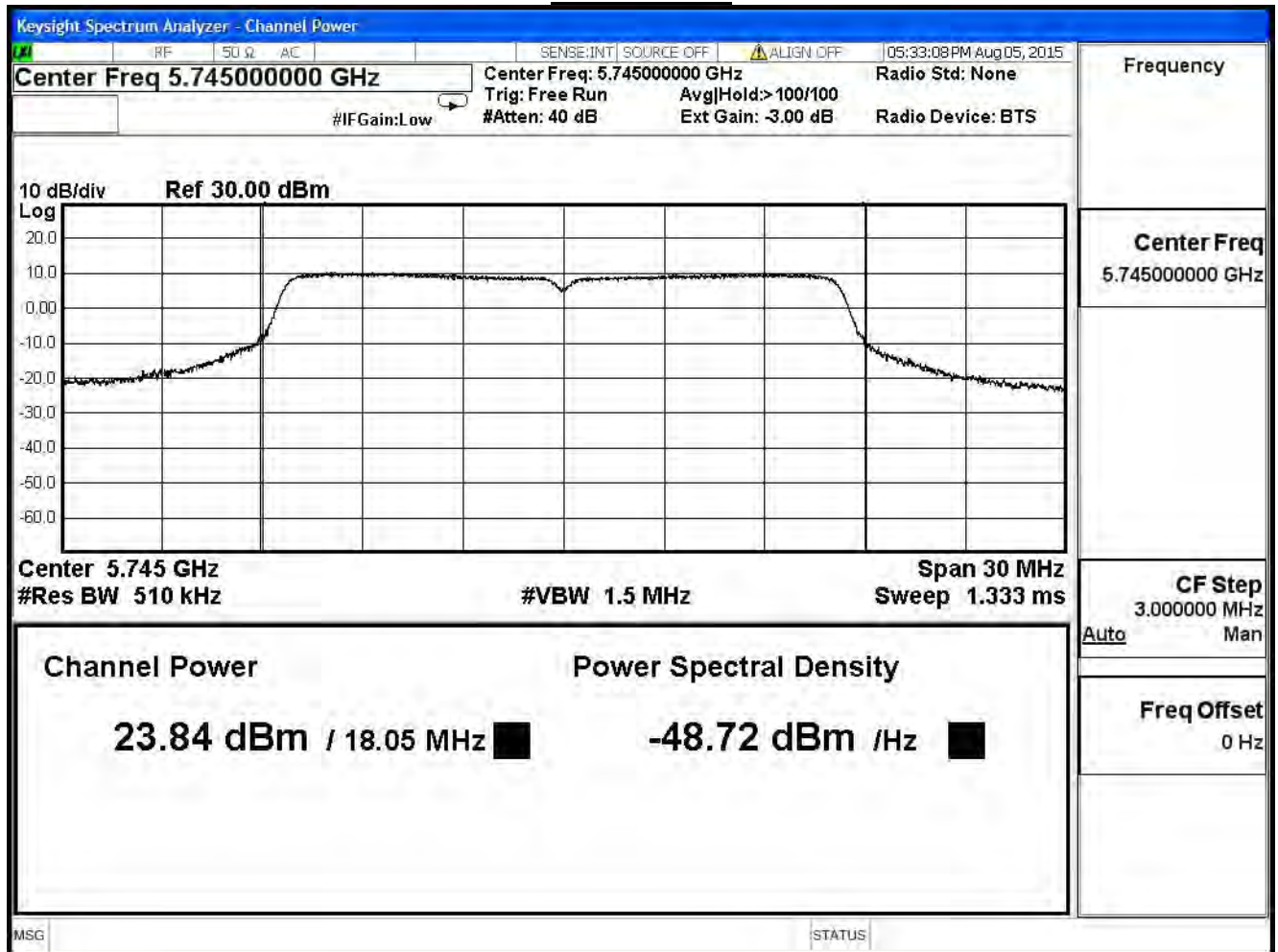
Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit_CDD Mode_AD890326		
Date of Test	2015/08/05	Test Site	SR7

IEEE 802.11a (ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	23.84	≤ 30	Pass
157	5785	22.81	≤ 30	Pass
165	5825	22.98	≤ 30	Pass

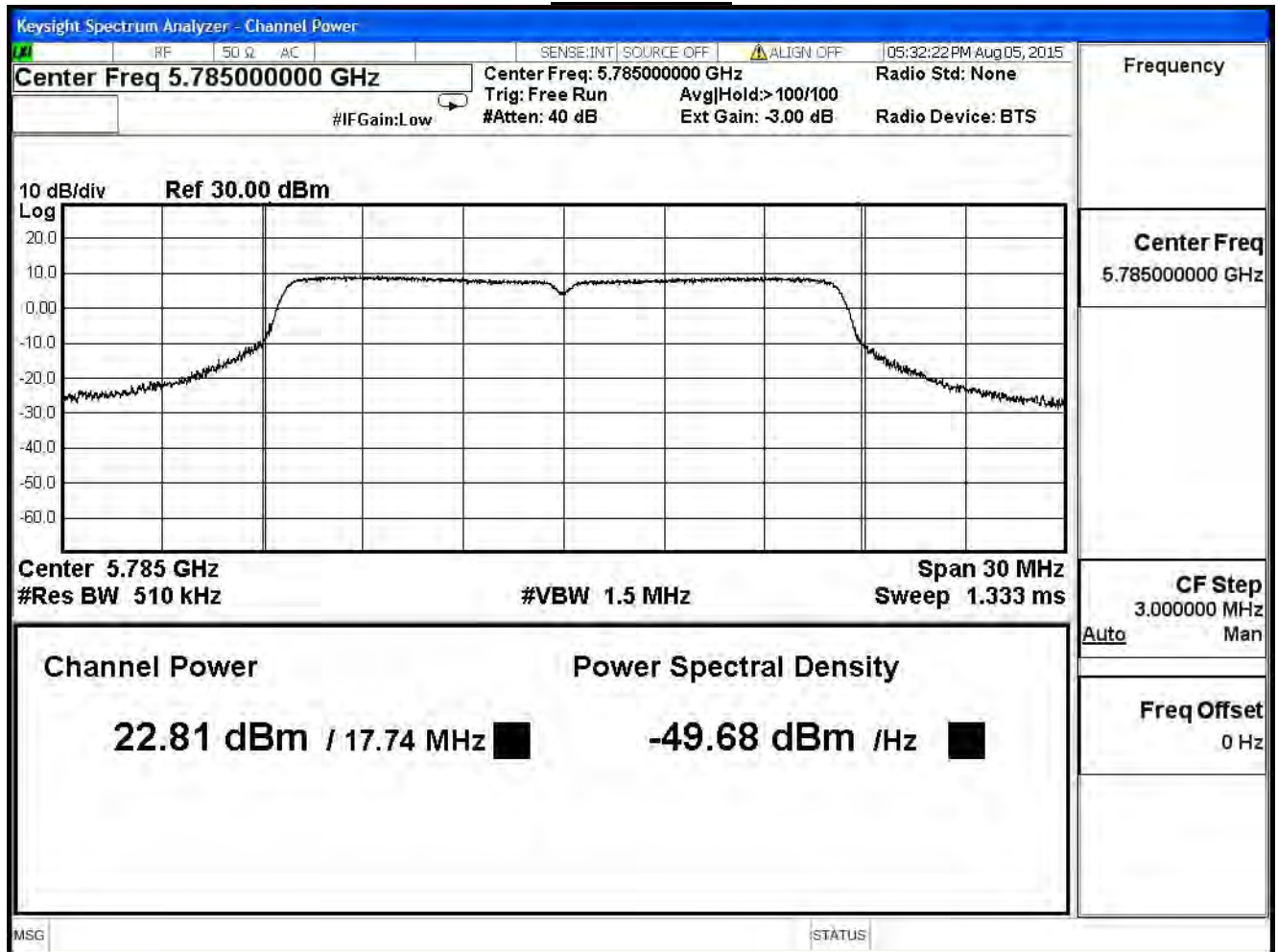
The worst emission of data rate is 6Mbps.

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
149	5745	23.84	--	--	--	--	--	--	30dBm
157	5785	22.81	22.71	22.61	22.41	22.21	22.01	21.91	30dBm
165	5825	22.98	--	--	--	--	--	--	30dBm

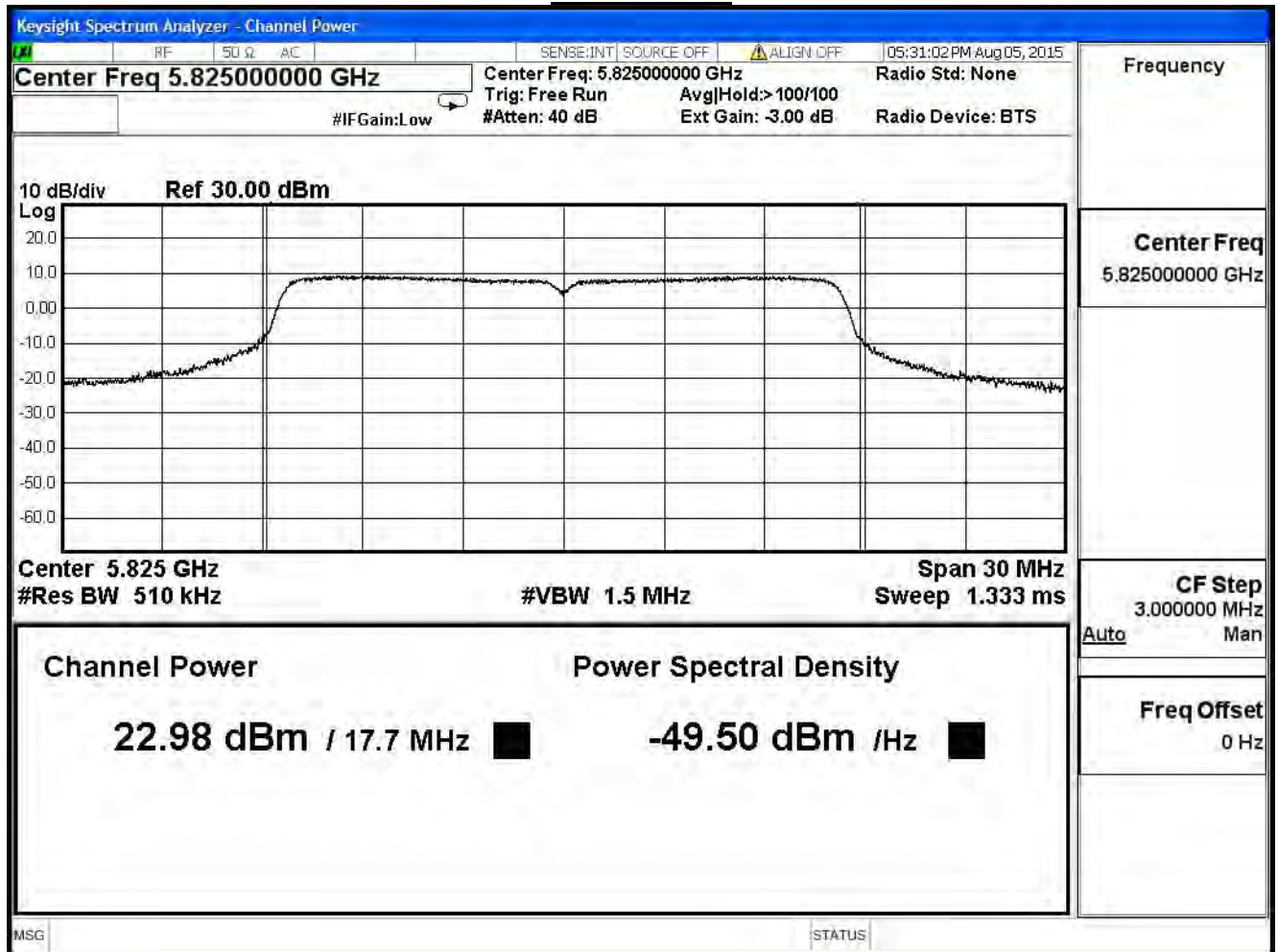
Channel 149



Channel 157



Channel 165



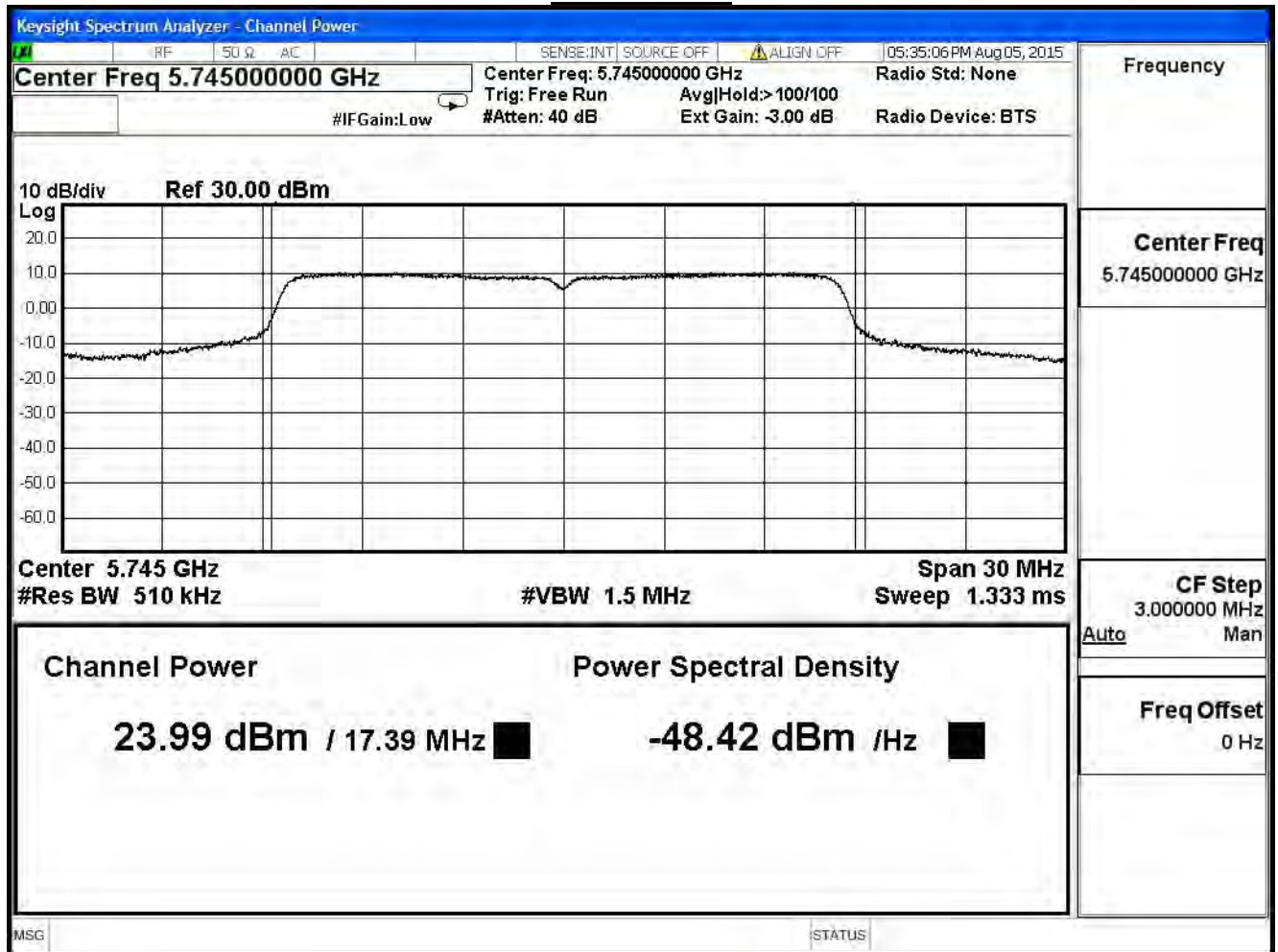
Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit_CDD Mode_AD890326		
Date of Test	2015/08/05	Test Site	SR7

IEEE 802.11a (ANT 2)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	23.99	≤ 30	Pass
157	5785	22.84	≤ 30	Pass
165	5825	22.94	≤ 30	Pass

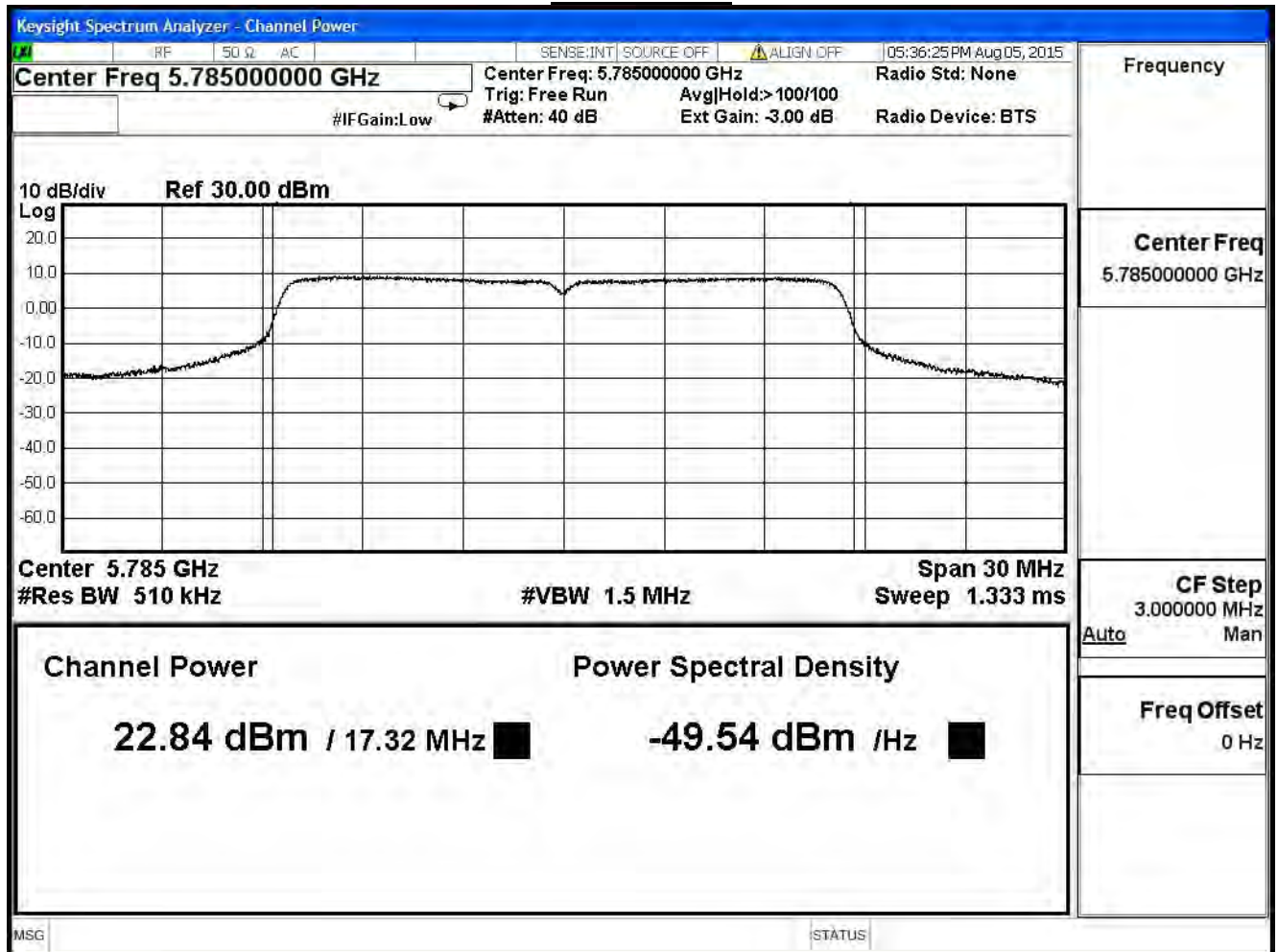
The worst emission of data rate is 6Mbps.

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
149	5745	23.99	--	--	--	--	--	--	30dBm
157	5785	22.84	22.64	22.44	22.24	22.14	21.94	21.84	30dBm
165	5825	22.94	--	--	--	--	--	--	30dBm

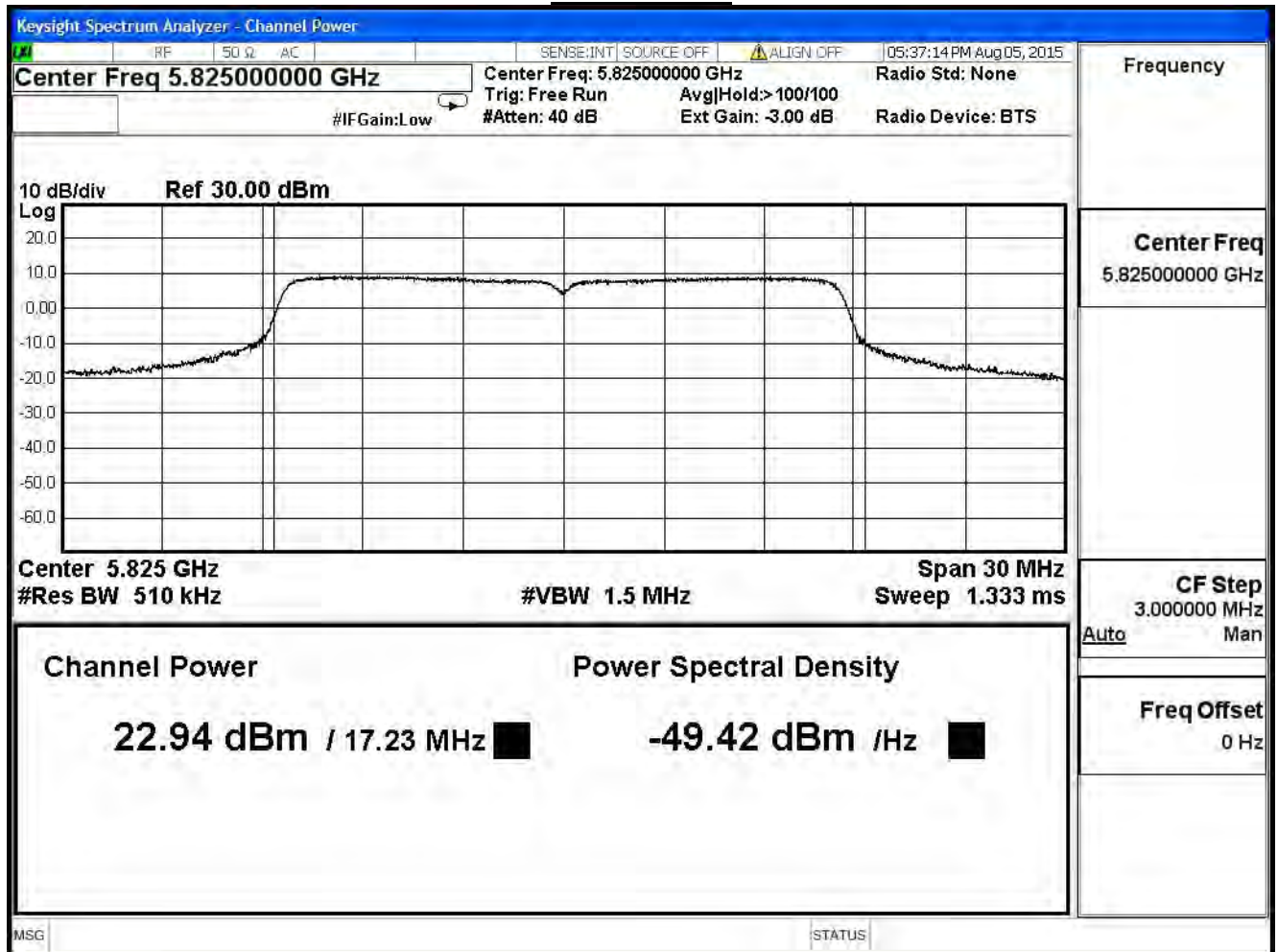
Channel 149



Channel 157



Channel 165



Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit_CDD Mode_AD890326		
Date of Test	2015/08/05	Test Site	SR7

IEEE 802.11a (ANT 0+1+2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	28.81	≤ 30	Pass
157	5785	27.57	≤ 30	Pass
165	5825	27.54	≤ 30	Pass

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
149	5745	28.81	--	--	--	--	--	--	30dBm
157	5785	27.57	27.44	27.31	27.11	26.97	26.77	26.67	30dBm
165	5825	27.54	--	--	--	--	--	--	30dBm

Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit_CDD Mode_AD890326		
Date of Test	2015/08/05	Test Site	SR7

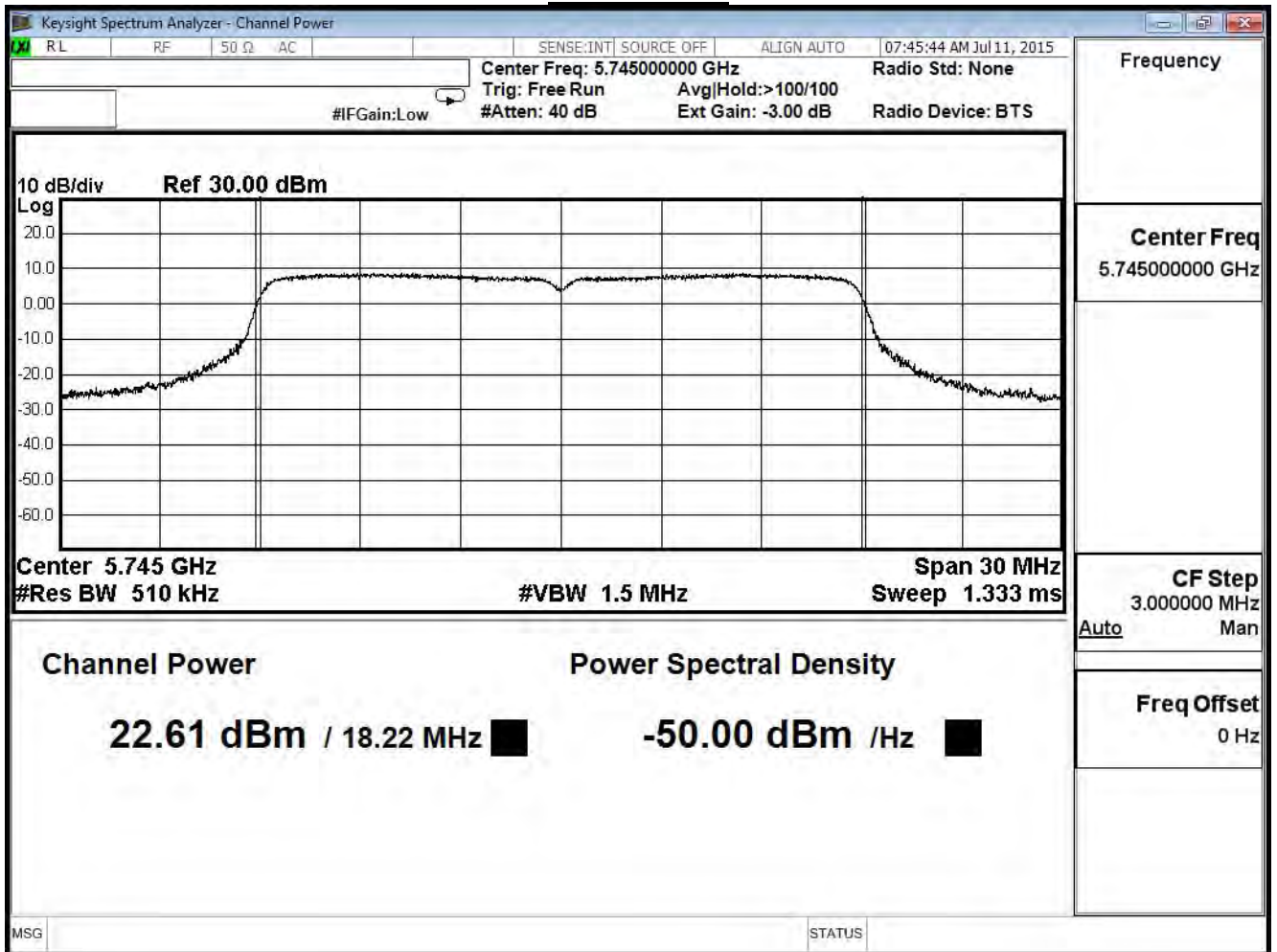
IEEE 802.11n 20MHz (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	22.61	≤ 30	Pass
157	5785	24.87	≤ 30	Pass
165	5825	24.17	≤ 30	Pass

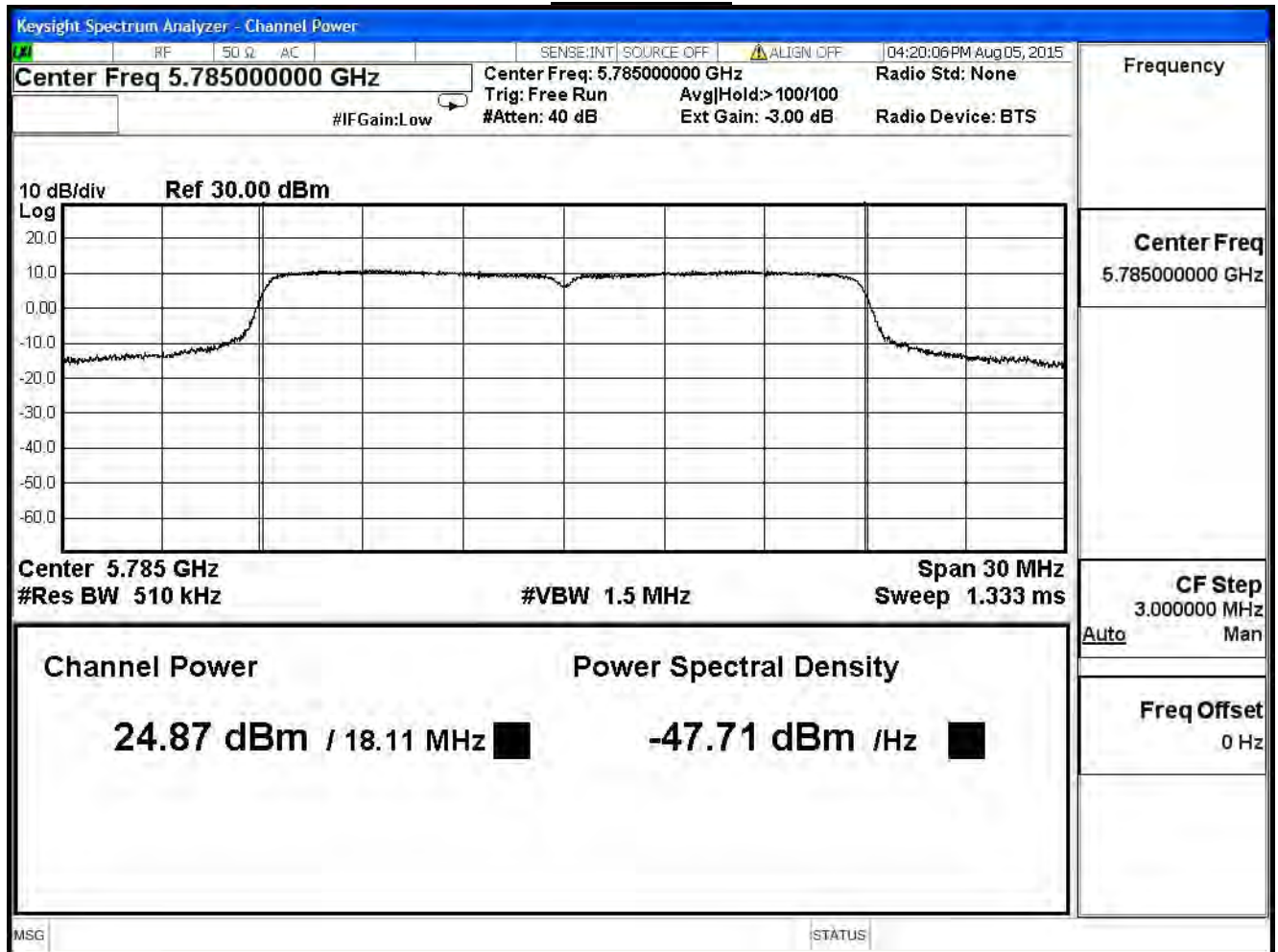
The worst emission of data rate is 6.5 Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		6.5	13	19.5	26	39	52	58.5	65	
149	5745	22.61	--	--	--	--	--	--	--	30dBm
157	5785	24.87	24.75	24.51	24.27	24.15	24.03	23.79	23.55	30dBm
165	5825	24.17	--	--	--	--	--	--	--	30dBm

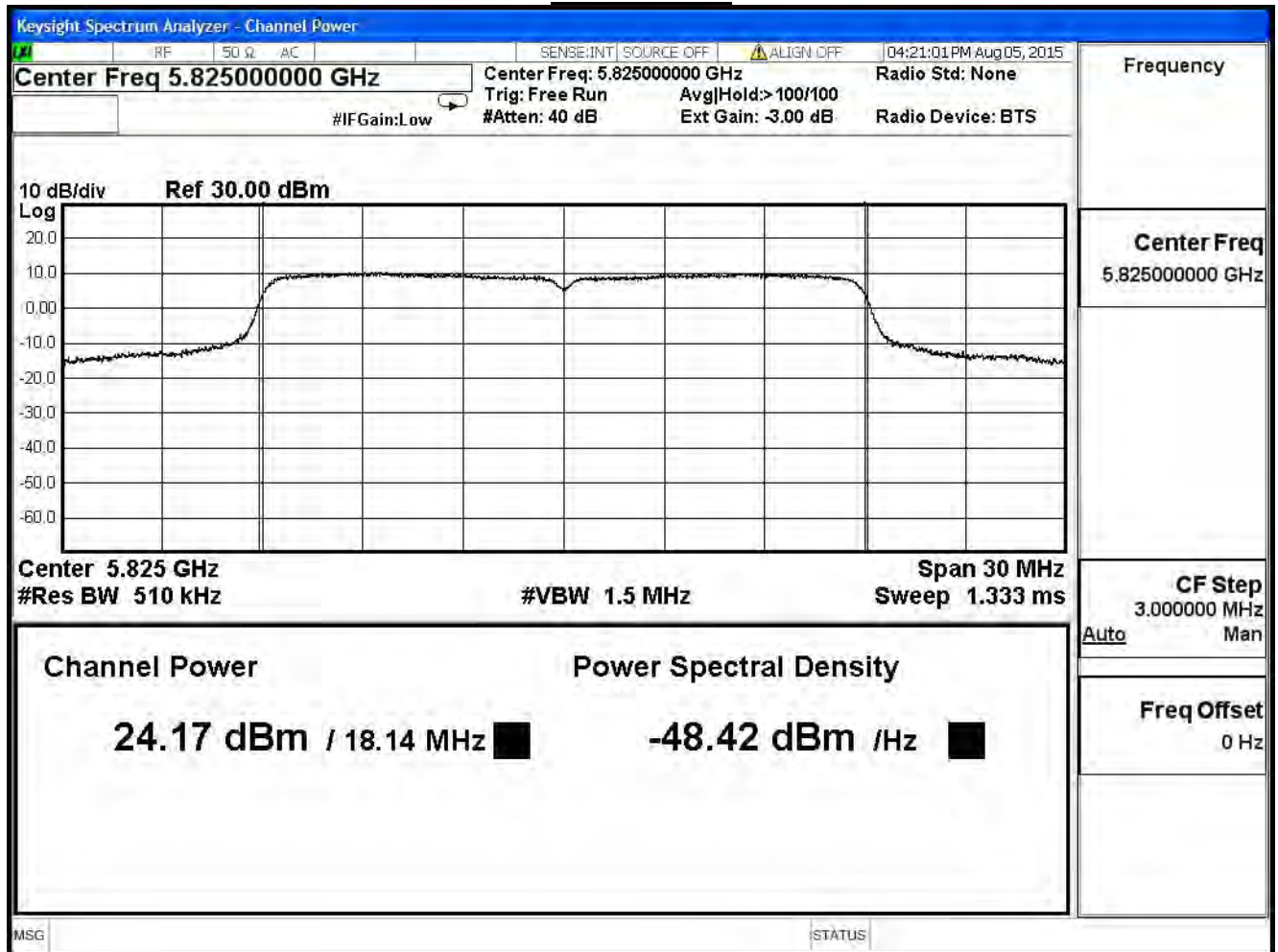
Channel 149



Channel 157



Channel 165



Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit_CDD Mode_AD890326		
Date of Test	2015/08/05	Test Site	SR7

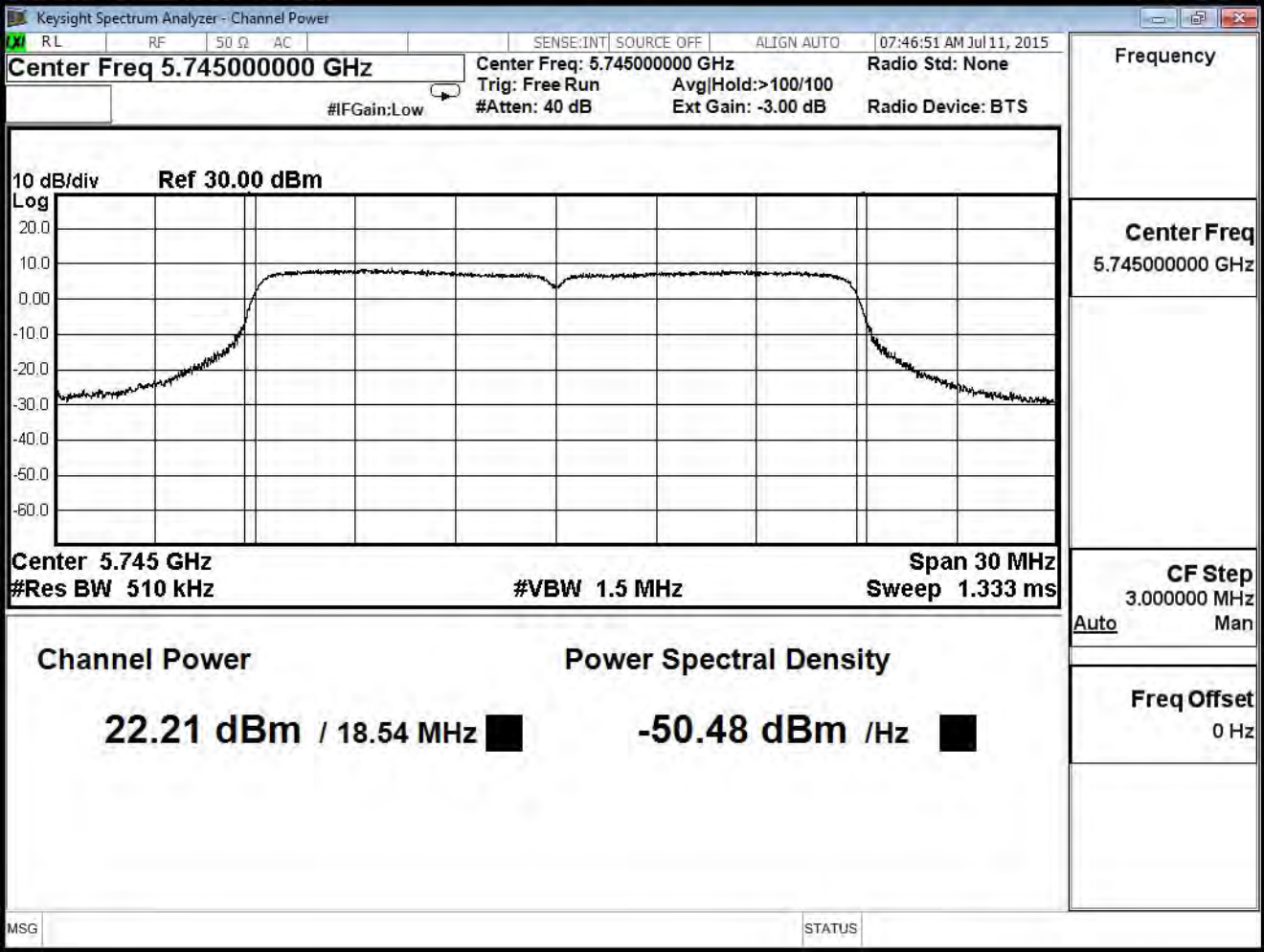
IEEE 802.11n 20MHz (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	22.21	≤ 30	Pass
157	5785	24.98	≤ 30	Pass
165	5825	24.89	≤ 30	Pass

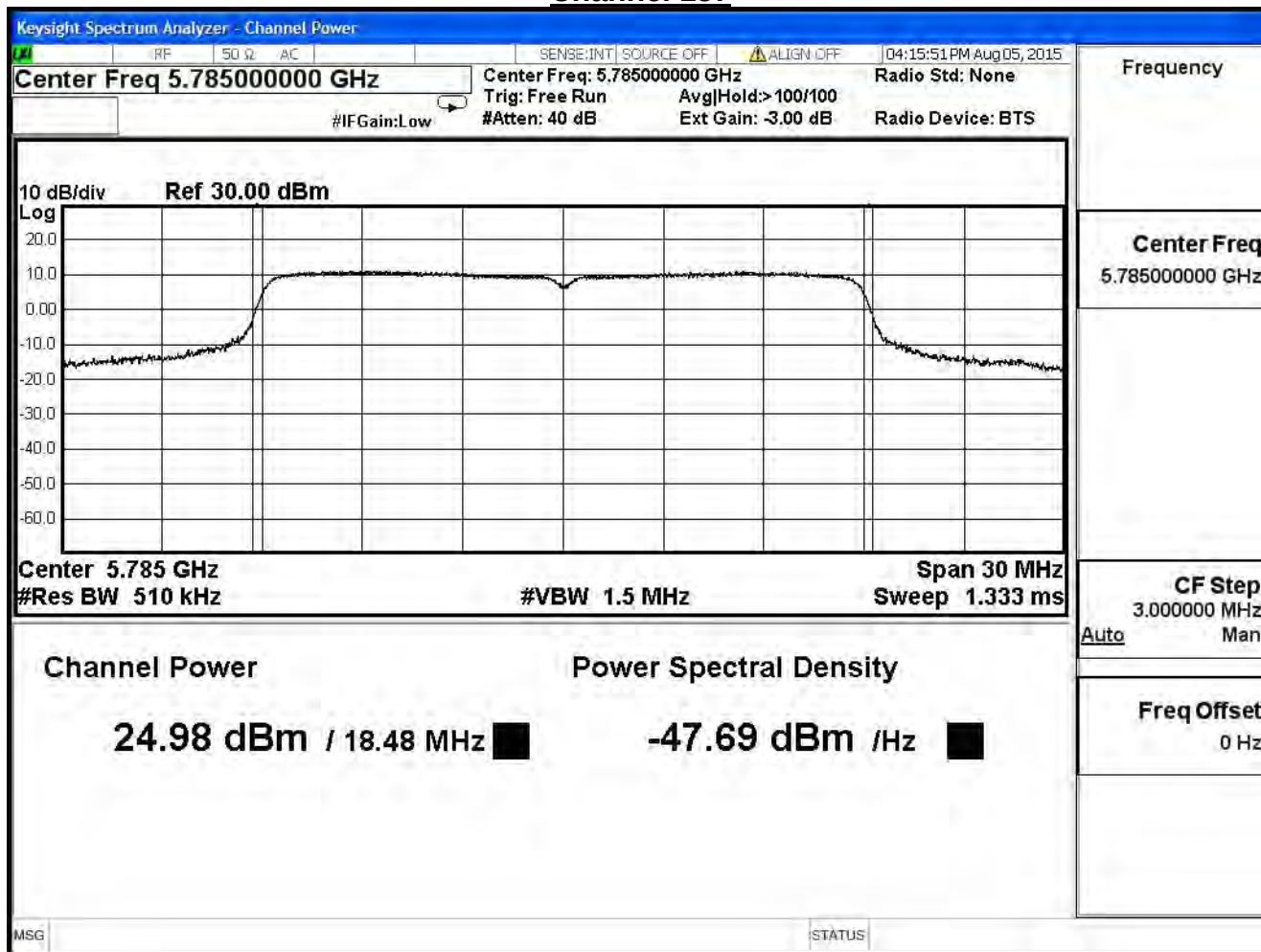
The worst emission of data rate is 6.5Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		6.5	13	19.5	26	39	52	58.5	65	
149	5745	22.21	--	--	--	--	--	--	--	30dBm
157	5785	24.98	24.74	24.62	24.50	24.26	24.14	24.02	23.78	30dBm
165	5825	24.89	--	--	--	--	--	--	--	30dBm

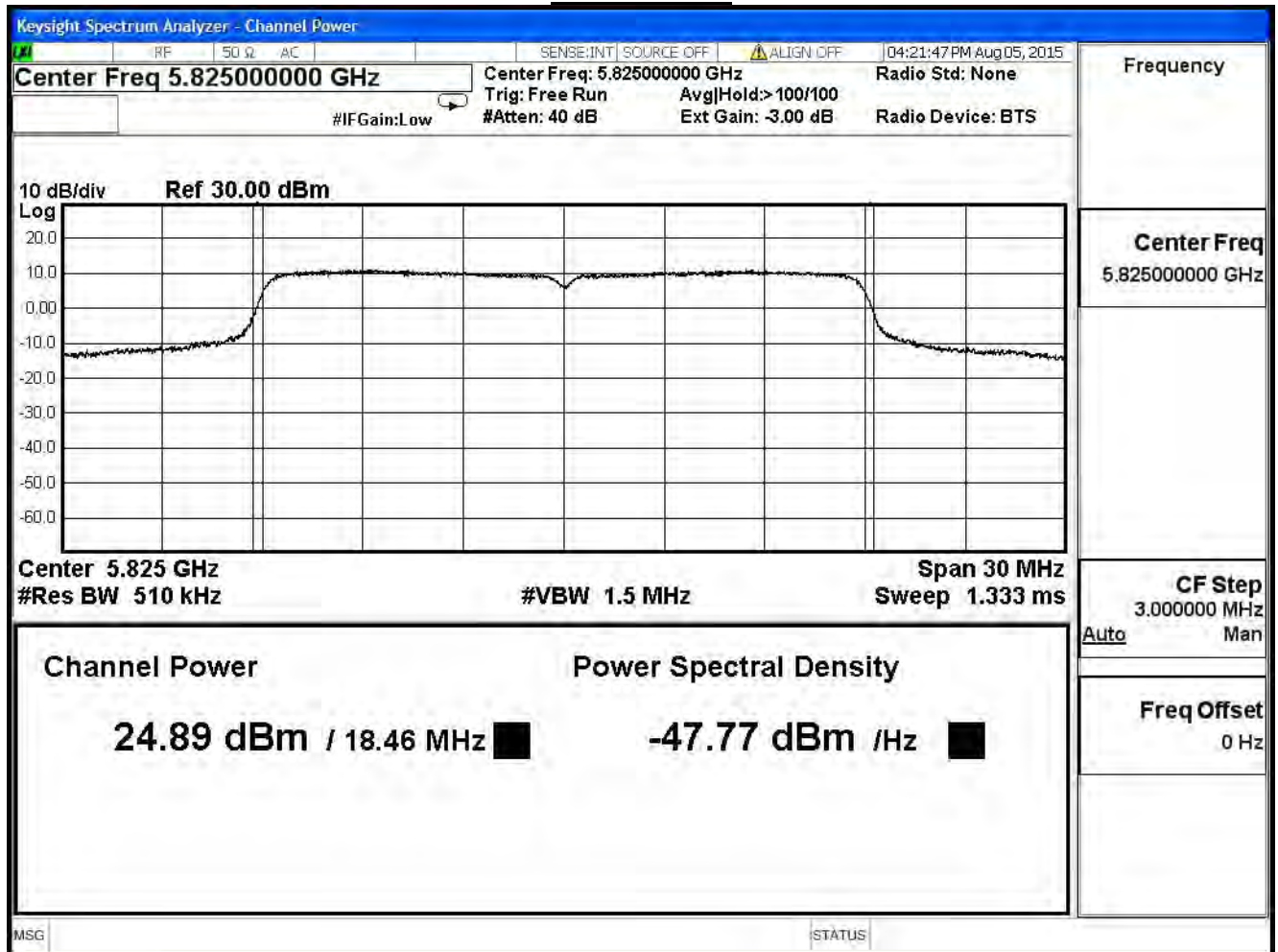
Channel 149



Channel 157



Channel 165



Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit_CDD Mode_AD890326		
Date of Test	2015/08/05	Test Site	SR7

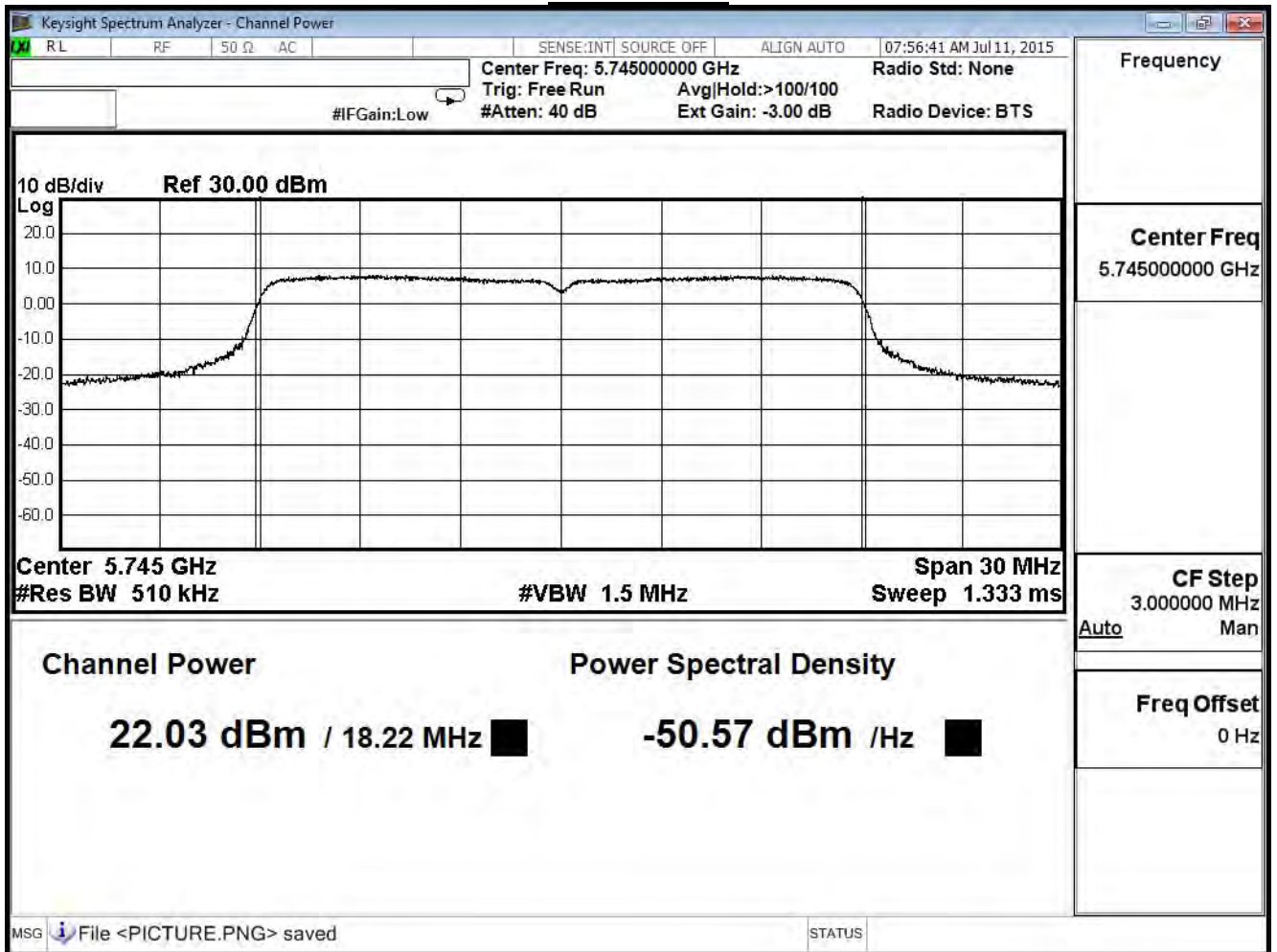
IEEE 802.11n 20MHz (ANT 2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	22.03	≤ 30	Pass
157	5785	24.54	≤ 30	Pass
165	5825	24.38	≤ 30	Pass

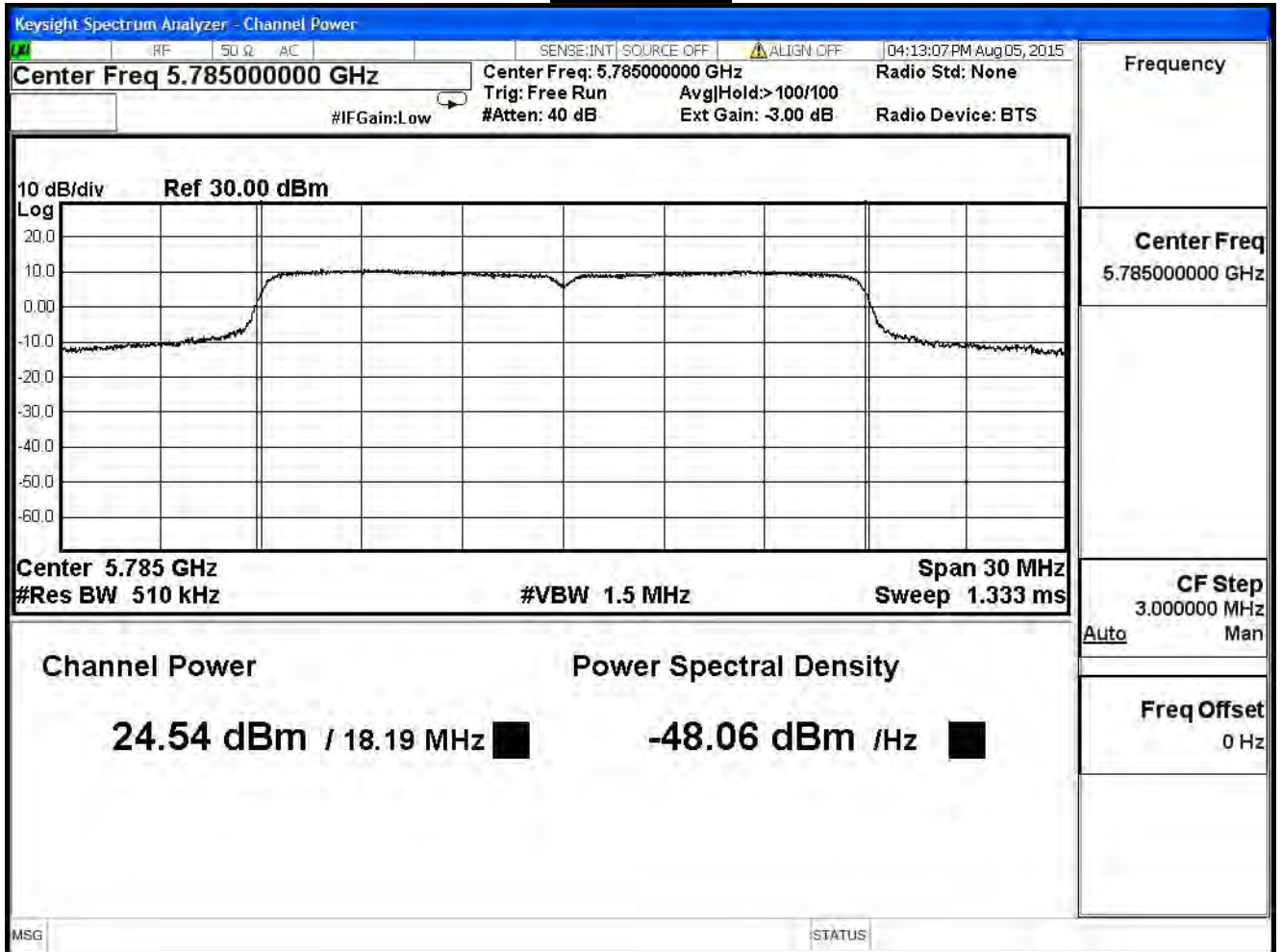
The worst emission of data rate is 6.5Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		6.5	13	19.5	26	39	52	58.5	65	
149	5745	22.03	--	--	--	--	--	--	--	30dBm
157	5785	24.54	24.30	24.18	23.94	23.82	23.58	23.34	23.10	30dBm
165	5825	24.38	--	--	--	--	--	--	--	30dBm

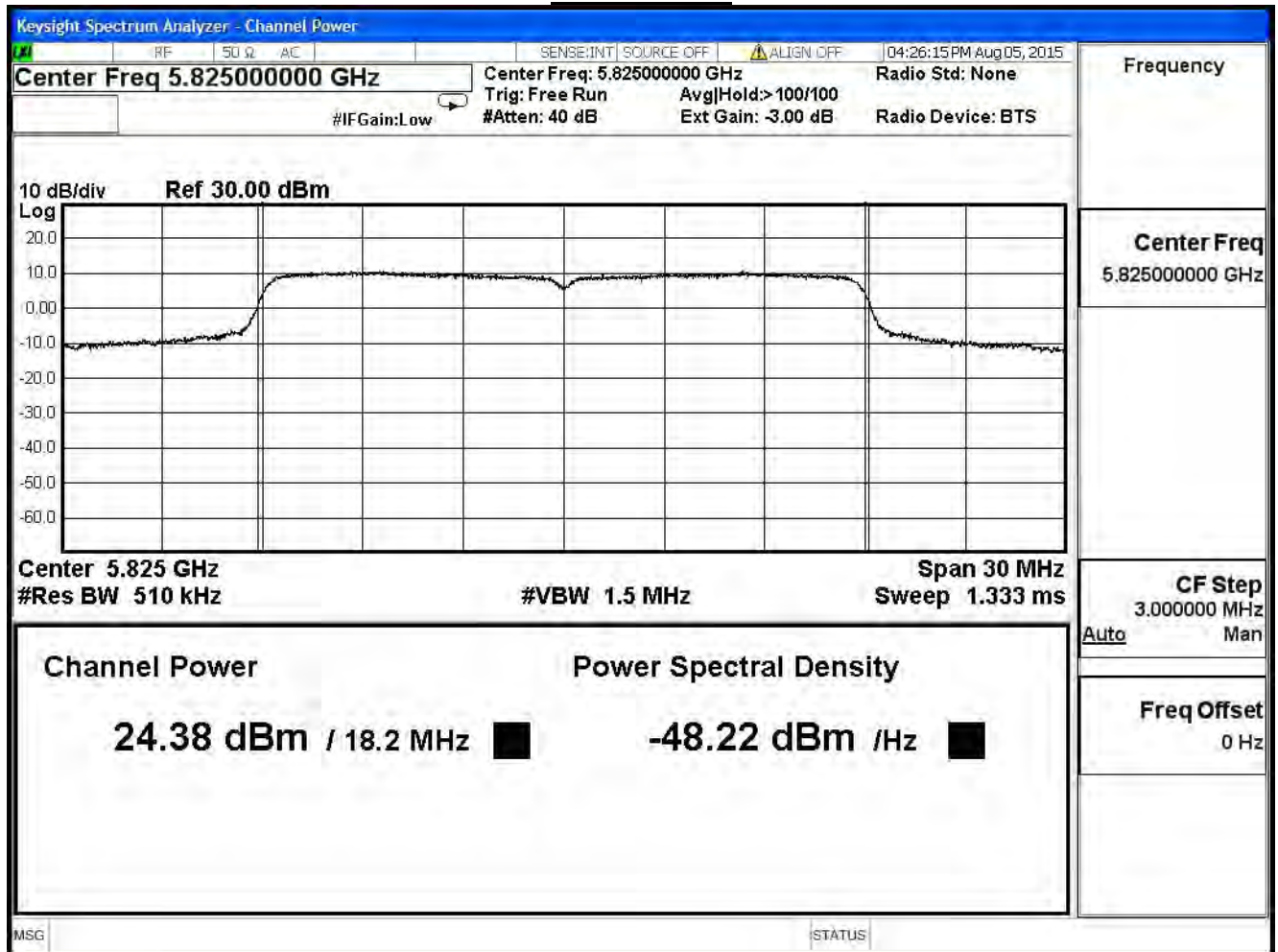
Channel 149



Channel 157



Channel 165



Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit_CDD Mode_AD890326		
Date of Test	2015/08/05	Test Site	SR7

IEEE 802.11n 20MHz (ANT 0+1+2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	27.06	≤ 30	Pass
157	5785	29.57	≤ 30	Pass
165	5825	29.41	≤ 30	Pass

The worst emission of data rate is 6.5Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		6.5	13	19.5	26	39	52	58.5	65	
149	5745	27.06	--	--	--	--	--	--	--	30dBm
157	5785	29.57	29.37	29.21	29.01	28.85	28.69	28.50	28.26	30dBm
165	5825	29.41	--	--	--	--	--	--	--	30dBm

Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit_CDD Mode_AD890326		
Date of Test	2015/07/11	Test Site	SR7

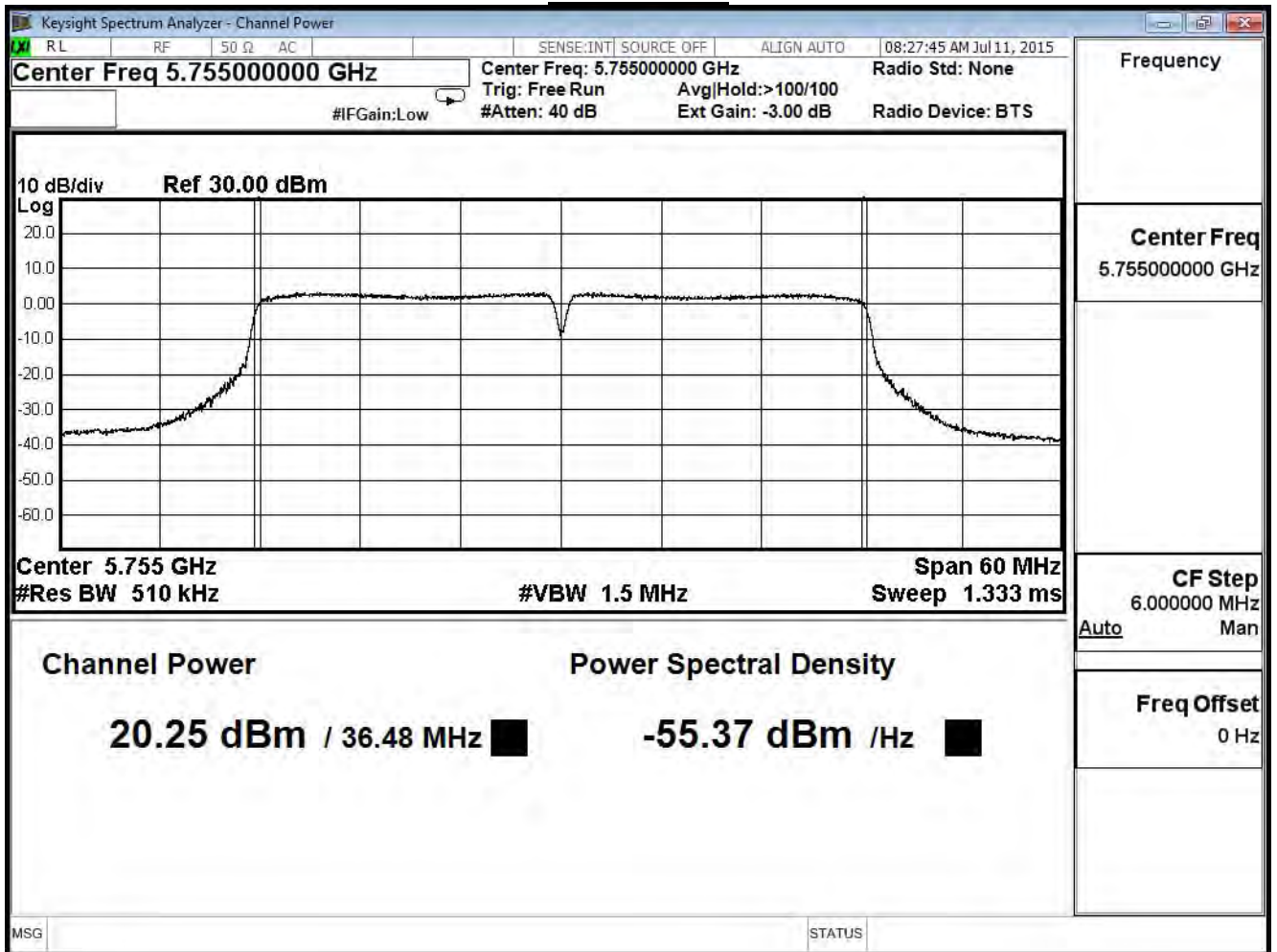
IEEE802.11n 40MHz(ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	20.25	≤ 30	Pass
159	5795	22.29	≤ 30	Pass

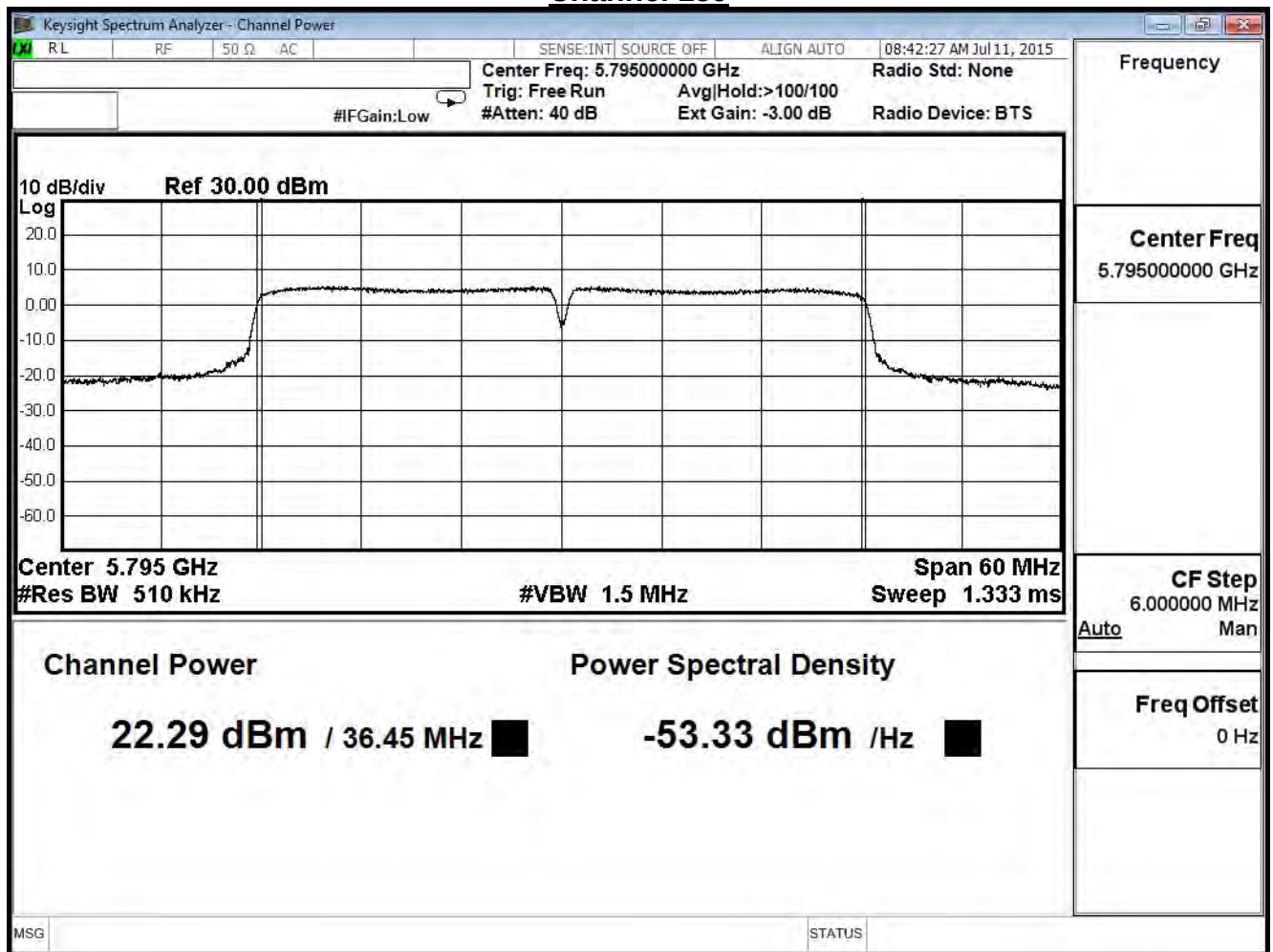
The worst emission of data rate is 13.5 Mbps.

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	20.25	--	--	--	--	--	--	--	30dBm
159	5795	22.29	22.13	22.03	21.83	21.73	21.61	21.49	21.29	30dBm

Channel 151



Channel 159



Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit_CDD Mode_AD890326		
Date of Test	2015/07/11	Test Site	SR7

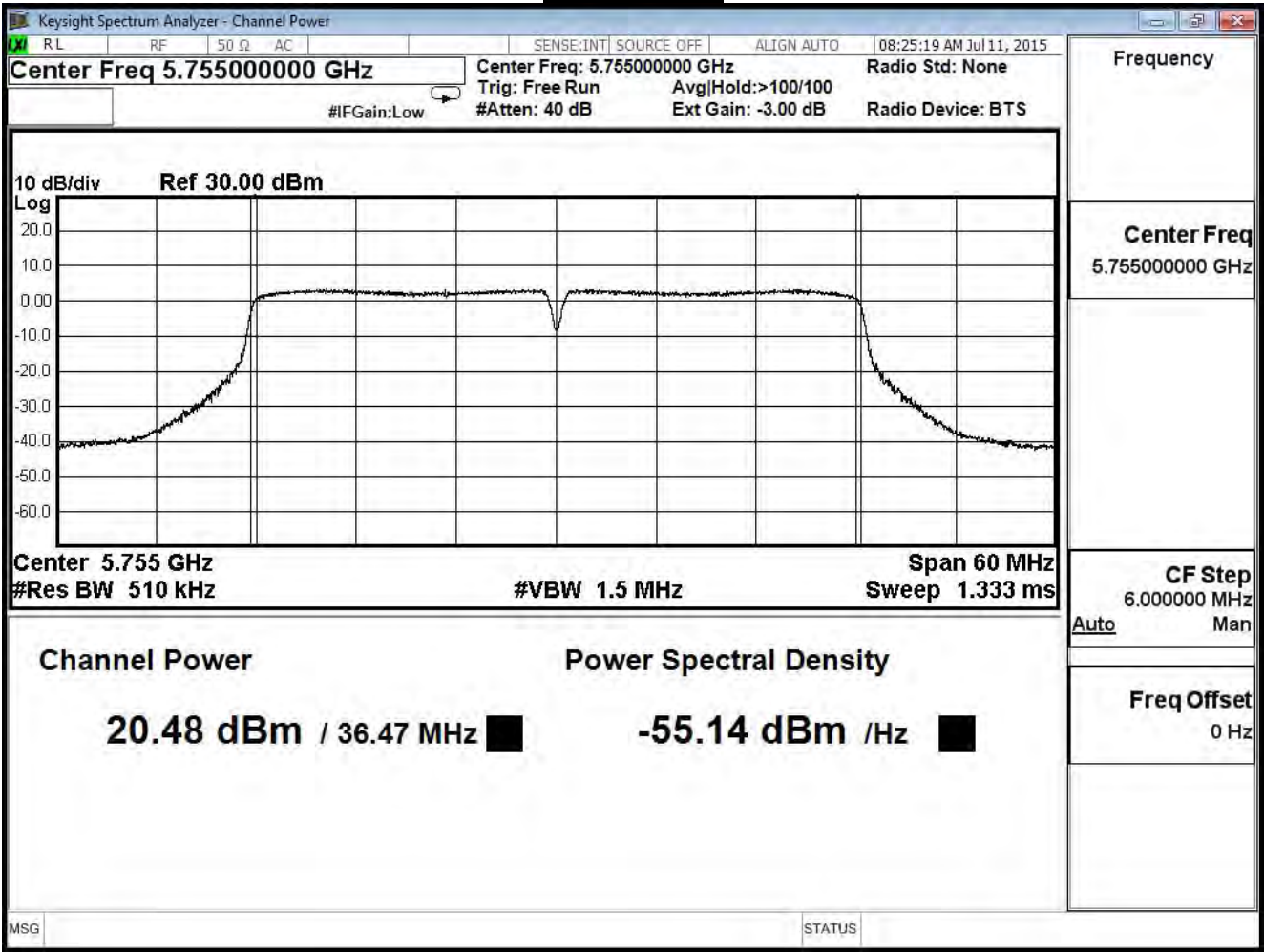
IEEE802.11n 40MHz(ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	20.48	≤ 30	Pass
159	5795	22.45	≤ 30	Pass

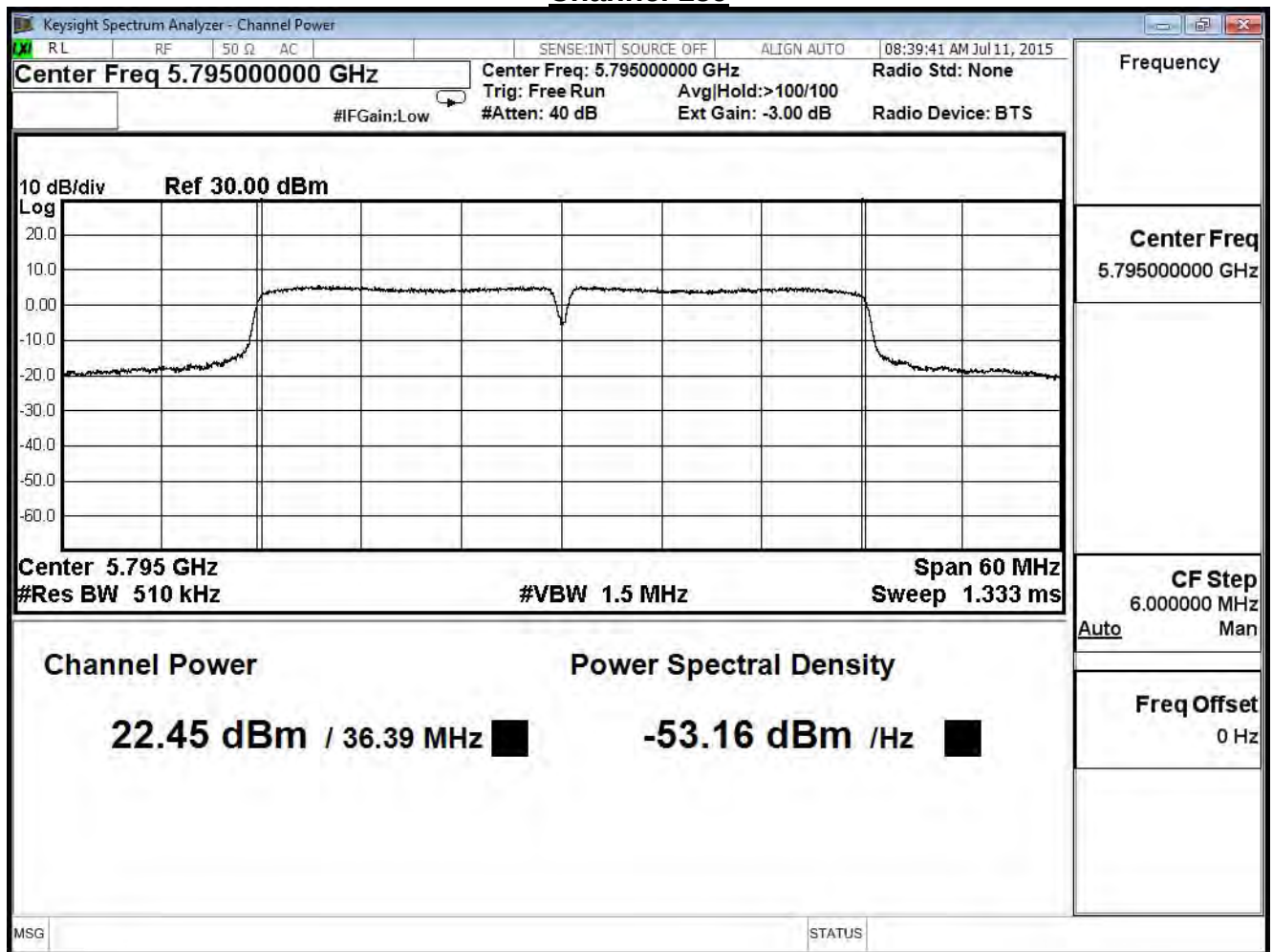
The worst emission of data rate is 13.5 Mbps.

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	20.48	--	--	--	--	--	--	--	30dBm
159	5795	22.45	22.35	22.17	22.07	21.91	21.79	21.55	21.43	30dBm

Channel 151



Channel 159



Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit_CDD Mode_AD890326		
Date of Test	2015/07/11	Test Site	SR7

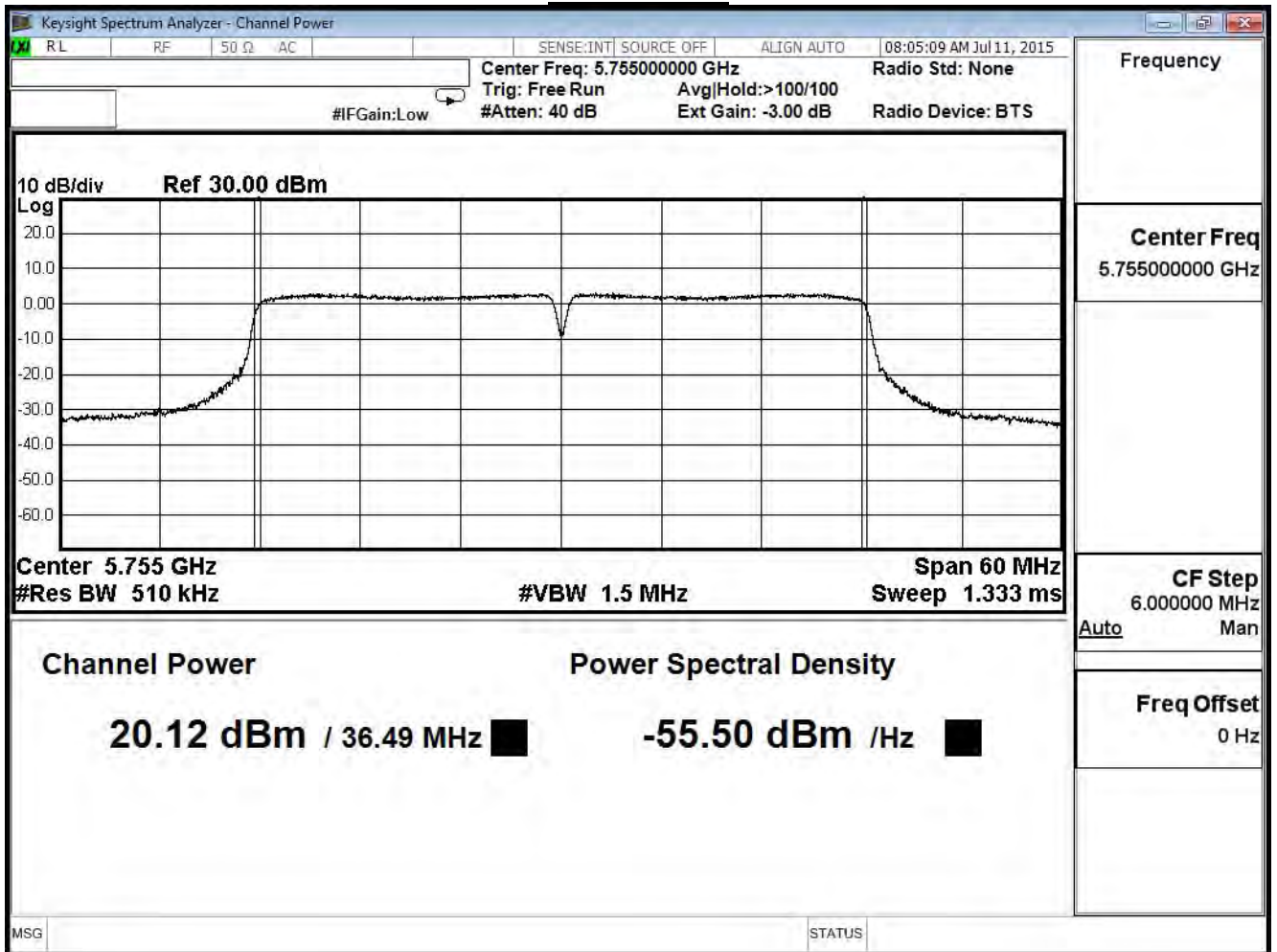
IEEE802.11n 40MHz(ANT 2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	20.12	≤ 30	Pass
159	5795	22.62	≤ 30	Pass

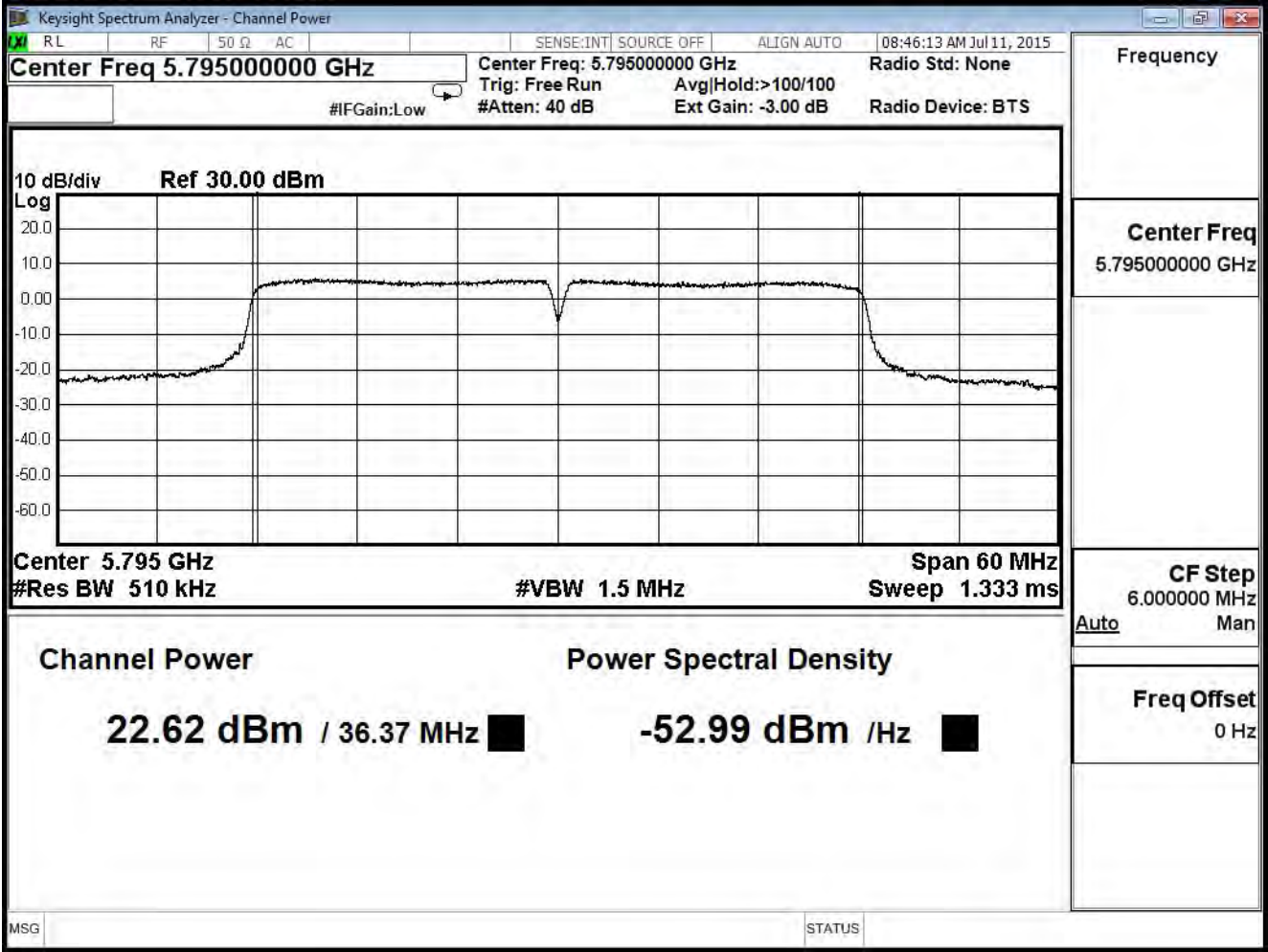
The worst emission of data rate is 13.5 Mbps.

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	20.12	--	--	--	--	--	--	--	30dBm
159	5795	22.62	22.51	22.41	22.21	22.11	21.87	21.74	21.50	30dBm

Channel 151



Channel 159



Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit_CDD Mode_AD890326		
Date of Test	2015/07/11	Test Site	SR7

IEEE802.11n 40MHz(ANT 0+1+2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	25.06	≤ 30	Pass
159	5795	27.23	≤ 30	Pass

The worst emission of data rate is 13.5Mbps.

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	25.06	--	--	--	--	--	--	--	30dBm
159	5795	27.23	27.10	26.98	26.81	26.69	26.53	26.37	26.18	30dBm

Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit_CDD Mode_AD890326		
Date of Test	2015/08/14	Test Site	SR7

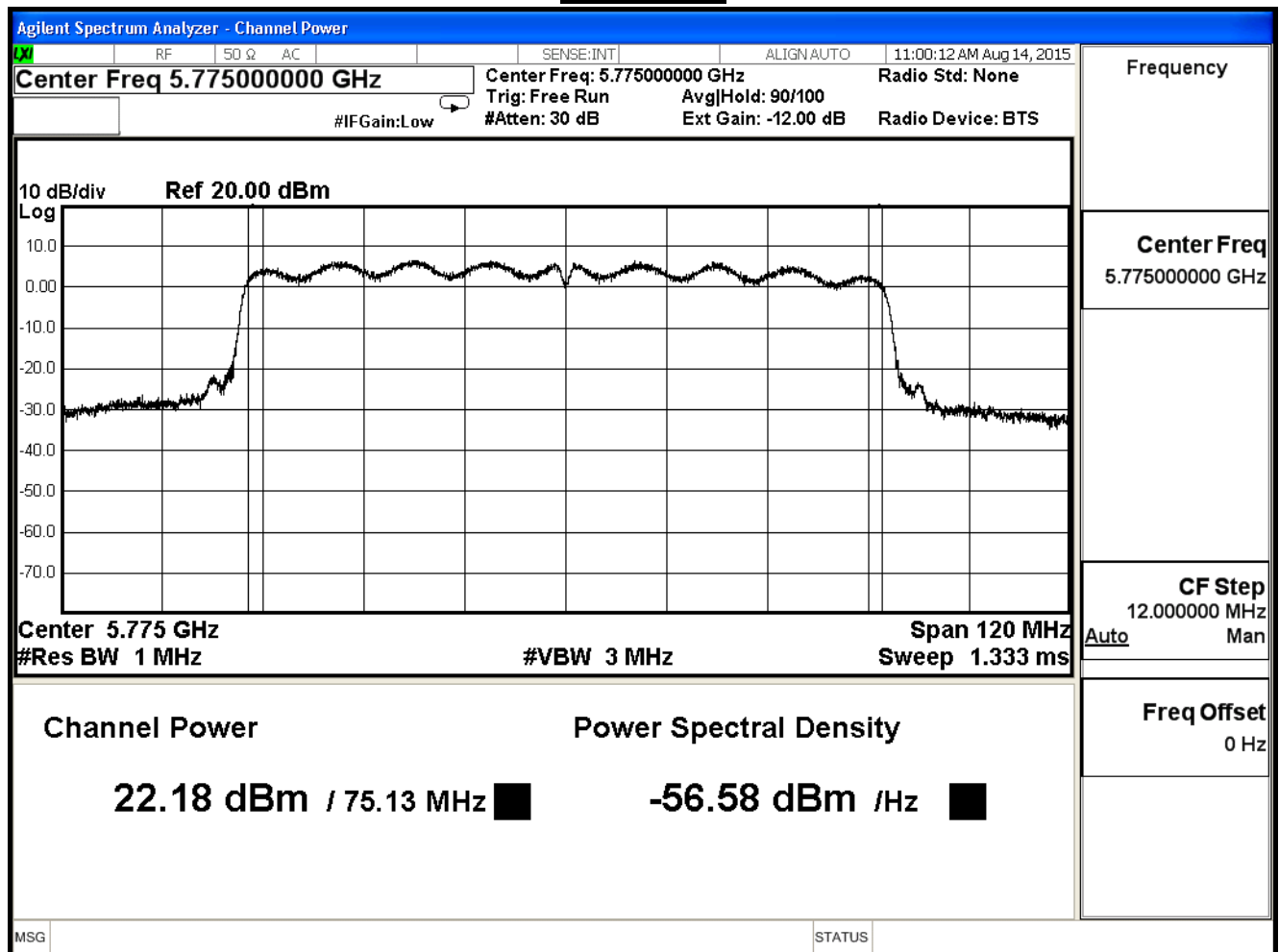
IEEE802.11ac 80MHz (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	22.18	≤30	Pass

The worst emission of data rate is 29.3 Mbps.

Peak Power Output (dBm)											
MCS Index		0	1	2	3	4	5	6	7	8	9
Channel No	Frequency (MHz)	Data Rate									
		29.3	58.5	87.8	117	175.5	234	263.3	292.5	351	390
155	5775	22.18	22.13	21.93	21.83	18.46	18.30	18.06	17.94	17.84	17.60

Channel 155



Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit_CDD Mode_AD890326		
Date of Test	2015/08/14	Test Site	SR7

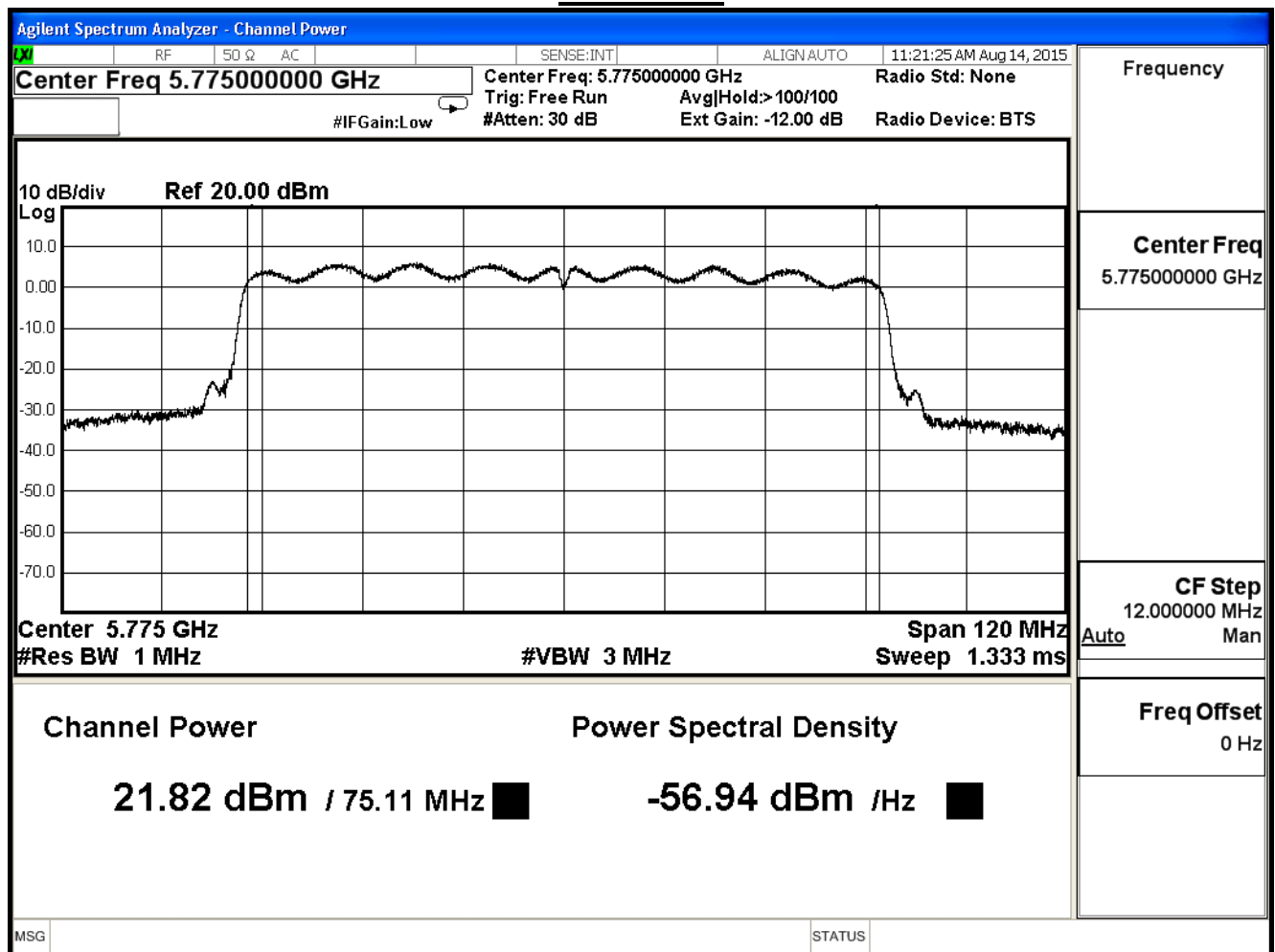
IEEE802.11ac 80MHz (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	21.82	≤30	Pass

The worst emission of data rate is 29.3 Mbps.

Peak Power Output (dBm)											
MCS Index		0	1	2	3	4	5	6	7	8	9
Channel No	Frequency (MHz)	Data Rate									
		29.3	58.5	87.8	117	175.5	234	263.3	292.5	351	390
155	5775	21.82	21.72	21.67	21.47	21.37	21.28	21.04	20.94	20.70	20.46

Channel 155



Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit_CDD Mode_AD890326		
Date of Test	2015/08/14	Test Site	SR7

IEEE802.11ac 80MHz (ANT 2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	20.60	≤ 30	Pass

The worst emission of data rate is 29.3 Mbps.

Peak Power Output (dBm)											
MCS Index		0	1	2	3	4	5	6	7	8	9
Channel No	Frequency (MHz)	Data Rate									
		29.3	58.5	87.8	117	175.5	234	263.3	292.5	351	390
155	5775	20.60	20.40	18.55	18.50	18.34	18.30	18.25	18.20	18.11	17.78

Channel 155

Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit_CDD Mode_AD890326		
Date of Test	2015/08/14	Test Site	SR7

IEEE802.11ac 80MHz (ANT 0+1+2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	26.36	≤ 30	Pass

The worst emission of data rate is 29.3Mbps.

Peak Power Output (dBm)											
MCS Index		0	1	2	3	4	5	6	7	8	9
Channel No	Frequency (MHz)	Data Rate									
		29.3	58.5	87.8	117	175.5	234	263.3	292.5	351	390
155	5775	26.36	26.23	25.71	25.60	24.40	24.31	24.11	24.02	23.86	23.59

Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit_Beamforming Mode_AD890326		
Date of Test	2015/08/31	Test Site	SR7

IEEE 802.11n_20M (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	15.40	≤ 29.43	Pass
6	2437	21.20	≤ 29.43	Pass
11	2462	15.52	≤ 29.43	Pass

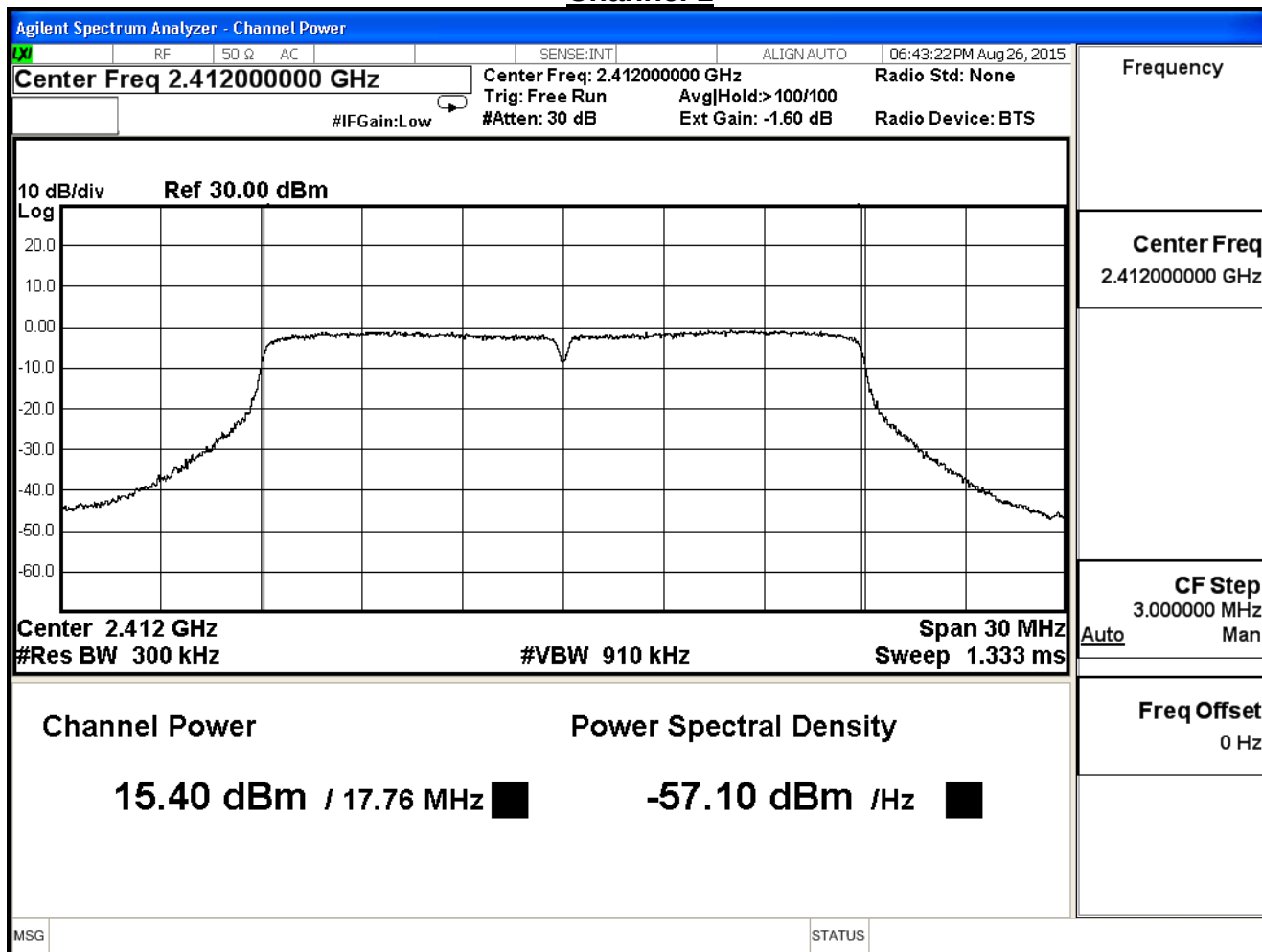
Directional Antenna: $10\log(\text{Ant N}) + \text{Max Gain} = 3 + 3.57 = 6.57\text{dBi}$

Peak Transmit Output Limit: $30\text{dBm} - (6.57\text{dBi} - 6\text{dB}) = 29.43\text{ dBm}$

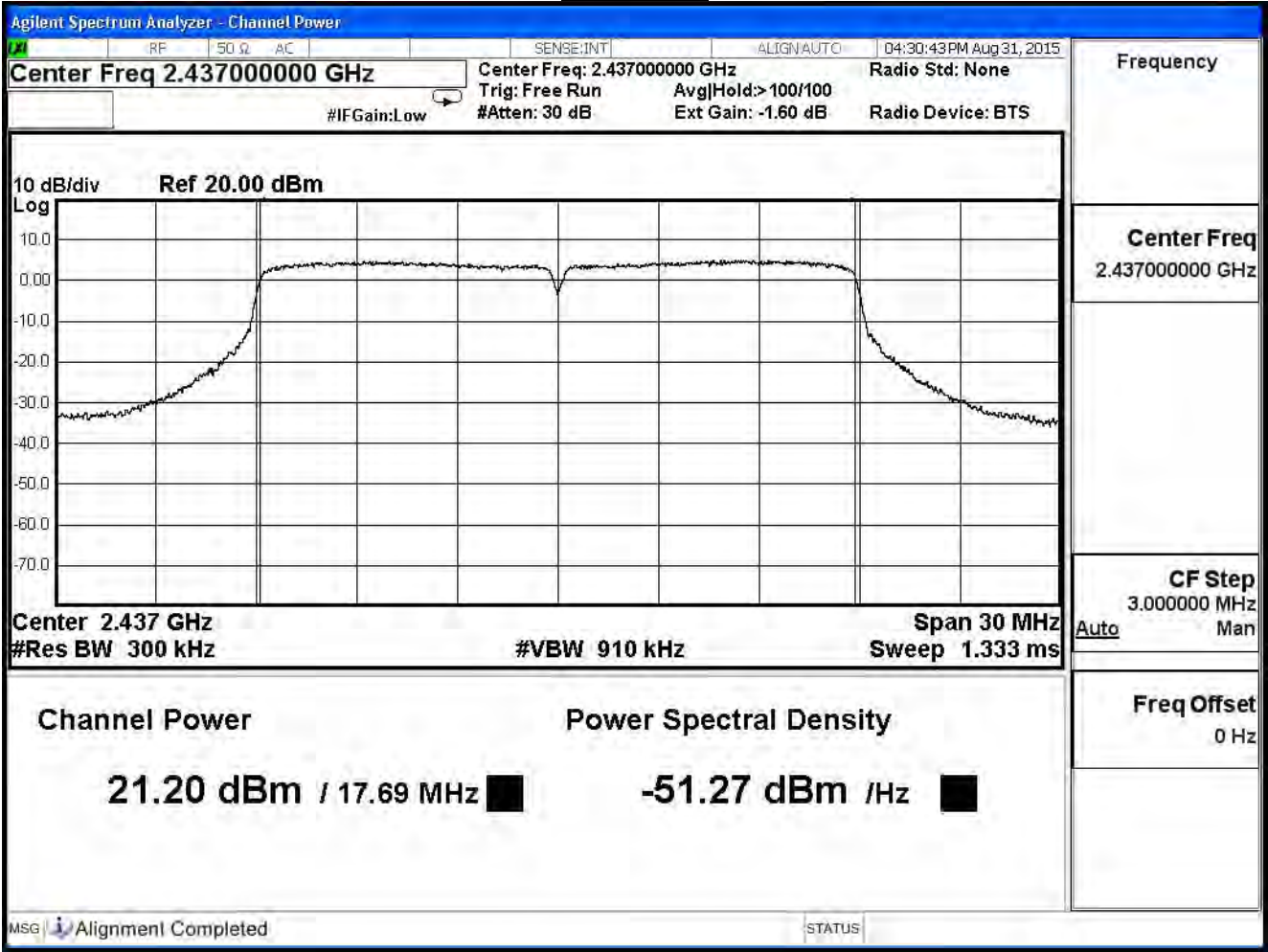
The worst emission of data rate is 6.5Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel	Frequency	Data Rate								
No	(MHz)	6.5	13	19.5	26	39	52	58.5	65	
1	2412	15.40	--	--	--	--	--	--	--	29.43dBm
6	2437	21.20	20.96	20.76	20.65	20.52	20.40	20.16	19.94	29.43dBm
11	2462	15.52	--	--	--	--	--	--	--	29.43dBm

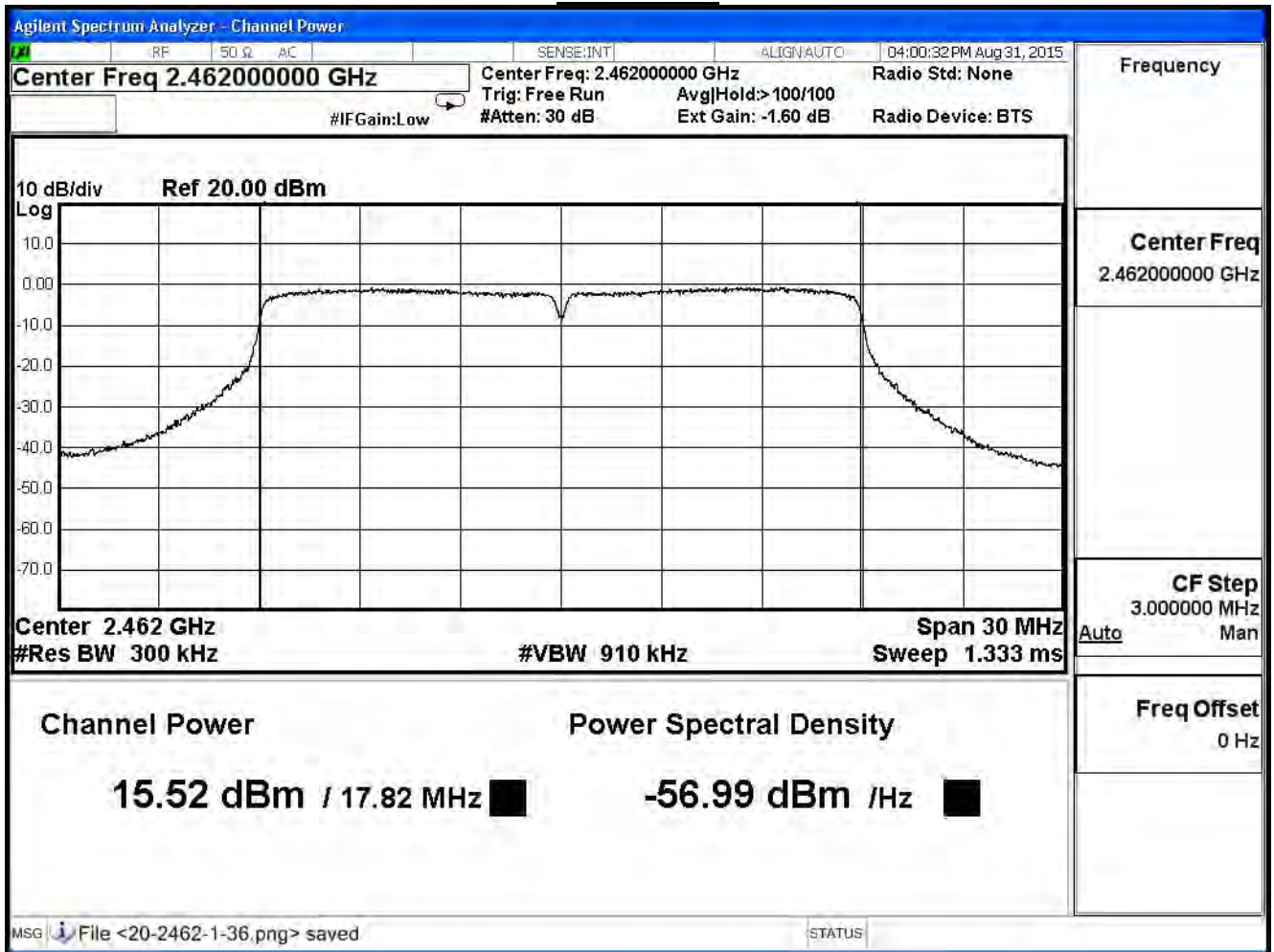
Channel 1



Channel 6



Channel 11



Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit_Beamforming Mode_AD890326		
Date of Test	2015/08/31	Test Site	SR7

IEEE 802.11n_20M (ANT 1)				
Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
1	2412	15.53	≤ 29.43	Pass
6	2437	21.09	≤ 29.43	Pass
11	2462	15.26	≤ 29.43	Pass

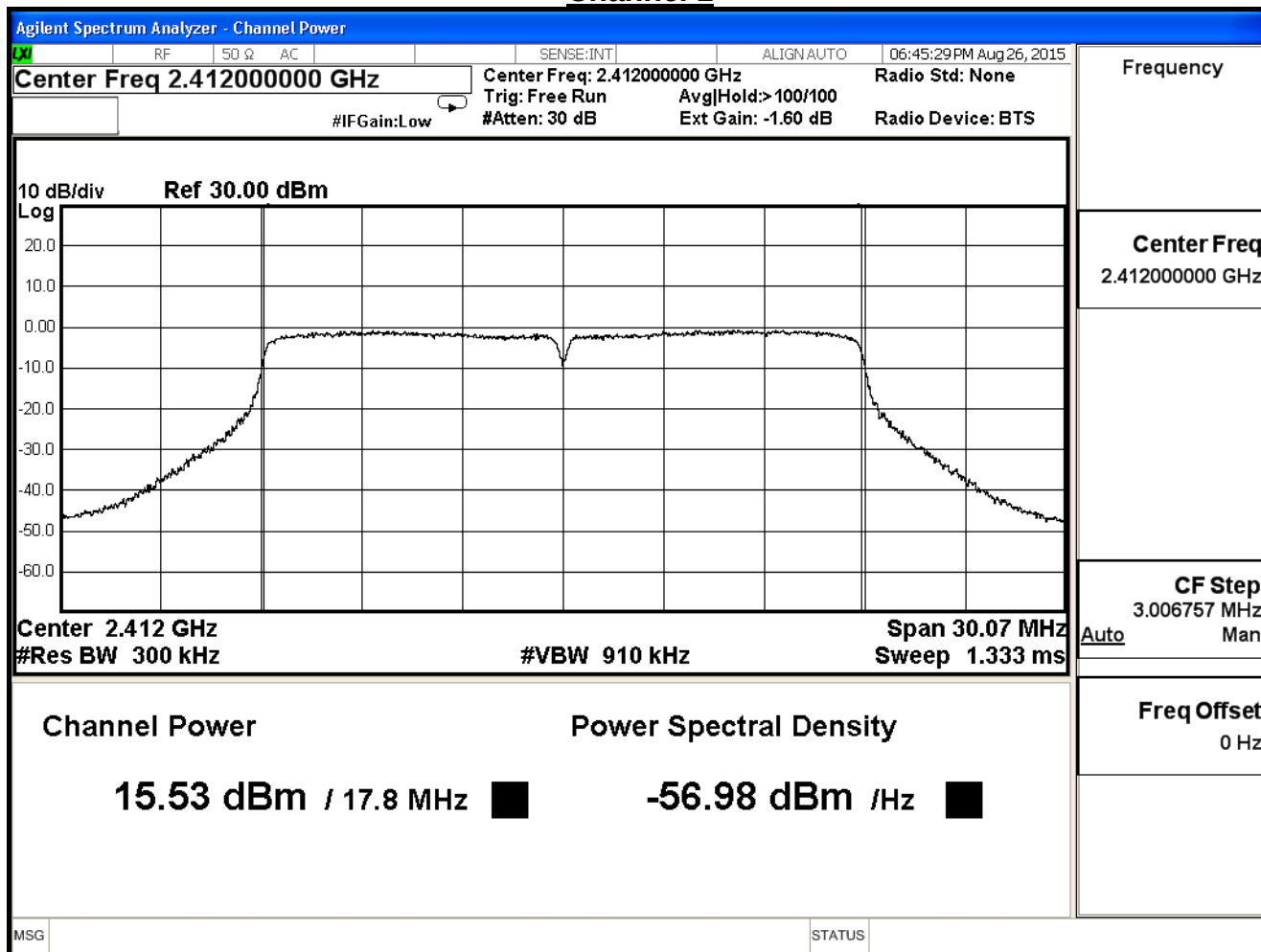
Directional Antenna: $10\log(\text{Ant N}) + \text{Max Gain} = 3 + 3.57 = 6.57\text{dBi}$

Peak Transmit Output Limit: $30\text{dBm} - (6.57\text{dBi} - 6\text{dB}) = 29.43\text{ dBm}$

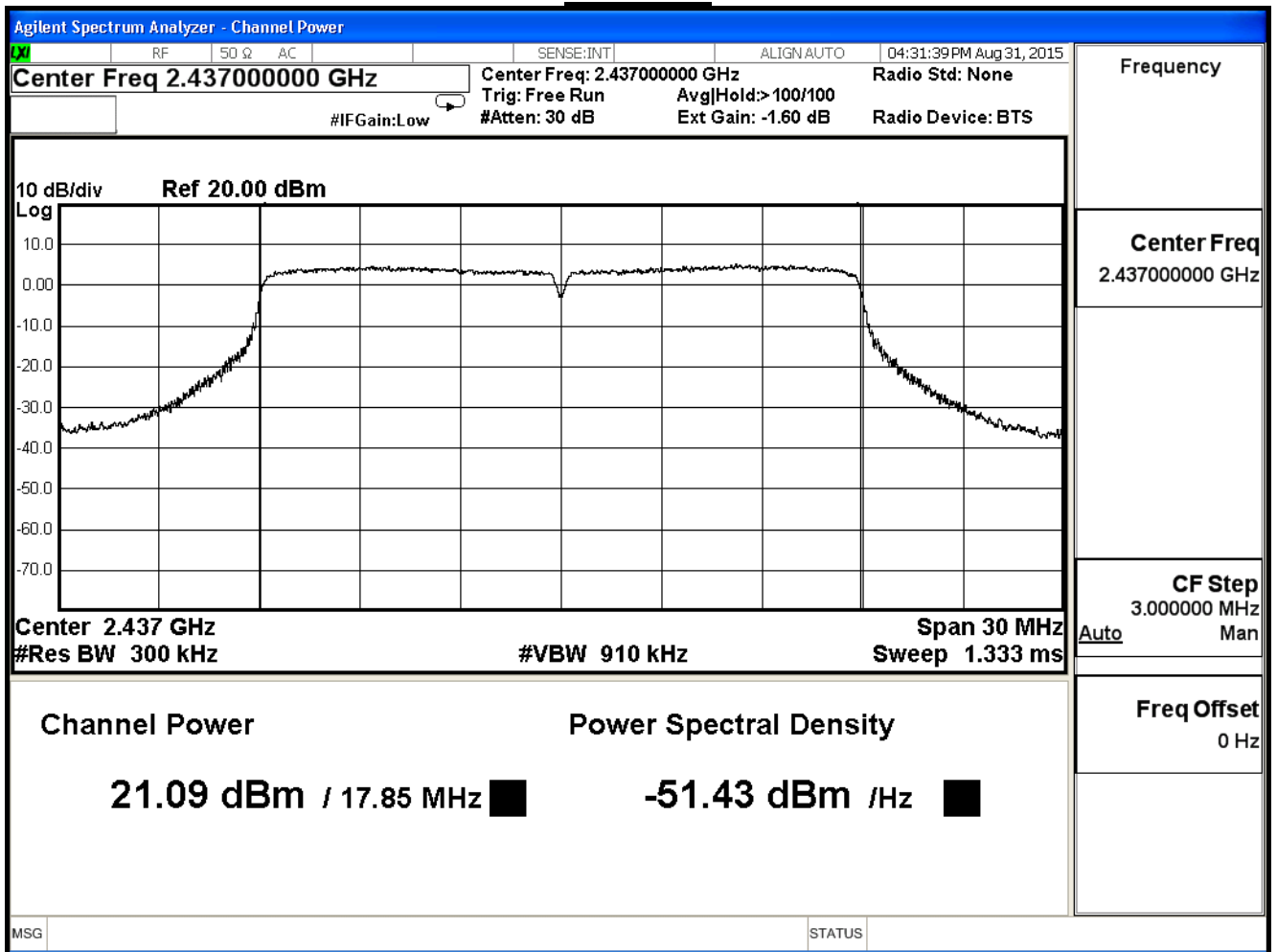
The worst emission of data rate is 6.5Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel	Frequency	Data Rate								
No	(MHz)	6.5	13	19.5	26	39	52	58.5	65	
1	2412	15.53	--	--	--	--	--	--	--	29.43dBm
6	2437	21.09	20.89	20.77	20.67	20.55	20.43	20.31	20.05	29.43dBm
11	2462	15.26	--	--	--	--	--	--	--	29.43dBm

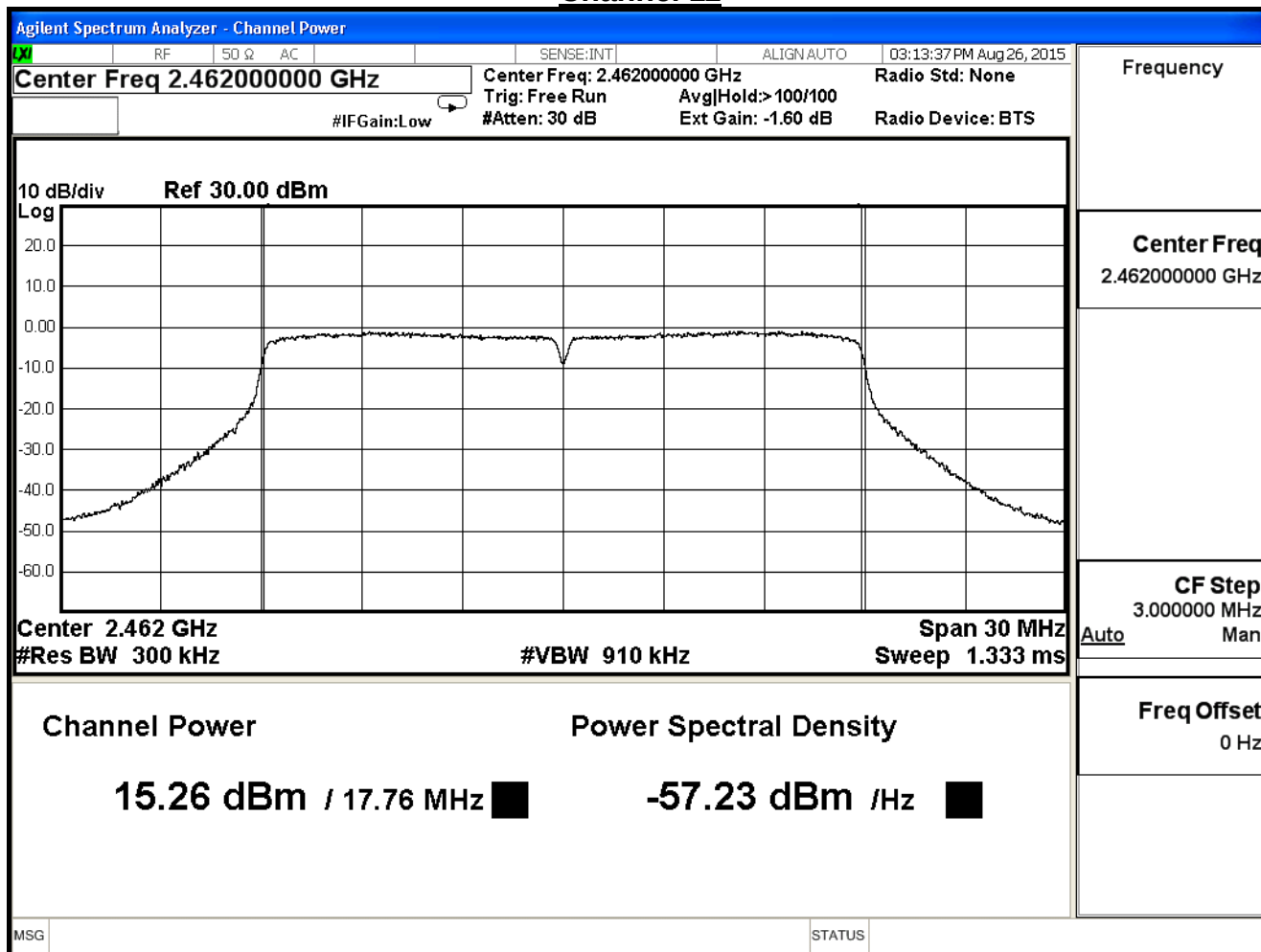
Channel 1



Channel 6



Channel 11



Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit_Beamforming Mode_AD890326		
Date of Test	2015/08/31	Test Site	SR7

IEEE 802.11n_20M (ANT 2)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	15.71	≤ 29.43	Pass
6	2437	21.37	≤ 29.43	Pass
11	2462	15.63	≤ 29.43	Pass

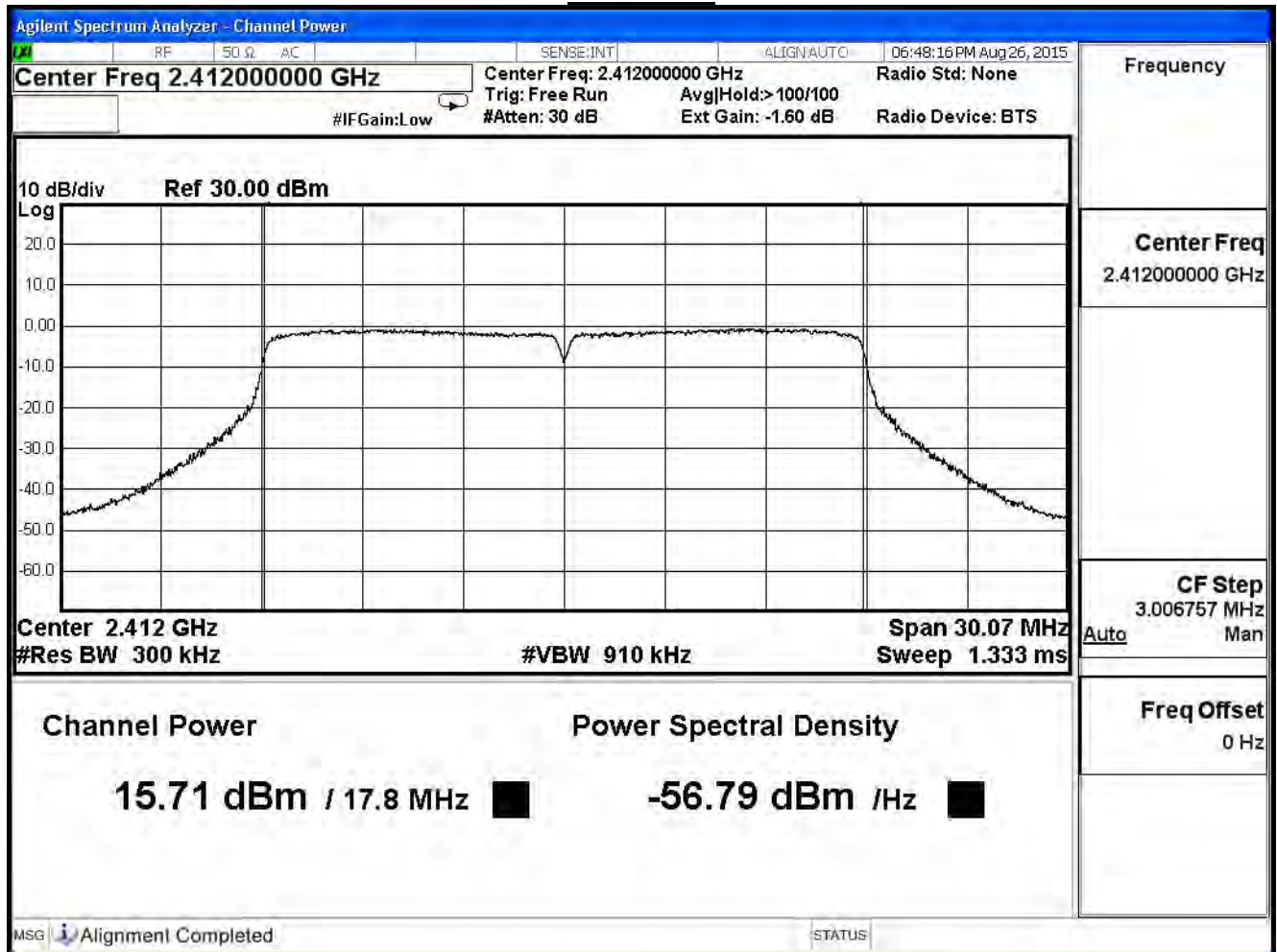
Directional Antenna: $10\log(\text{Ant N}) + \text{Max Gain} = 3 + 3.57 = 6.57\text{dBi}$

Peak Transmit Output Limit: $30\text{dBm} - (6.57\text{dBi} - 6\text{dB}) = 29.43\text{ dBm}$

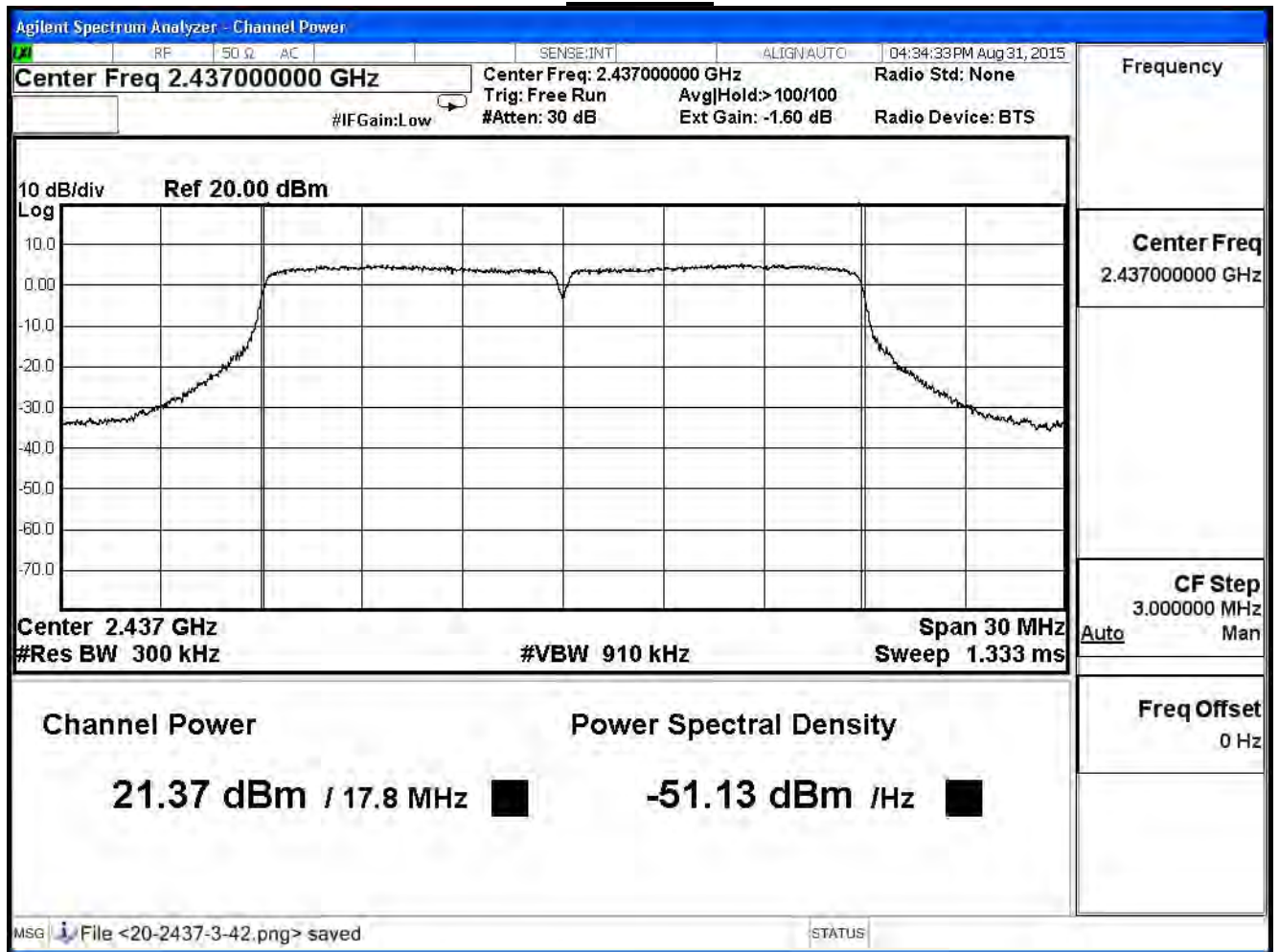
The worst emission of data rate is 6.5Mbps

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel	Frequency	Data Rate								
No	(MHz)	6.5	13	19.5	26	39	52	58.5	65	
1	2412	15.71	--	--	--	--	--	--	--	29.43dBm
6	2437	21.37	21.17	21.04	20.94	20.81	20.57	20.33	20.21	29.43dBm
11	2462	15.63	--	--	--	--	--	--	--	29.43dBm

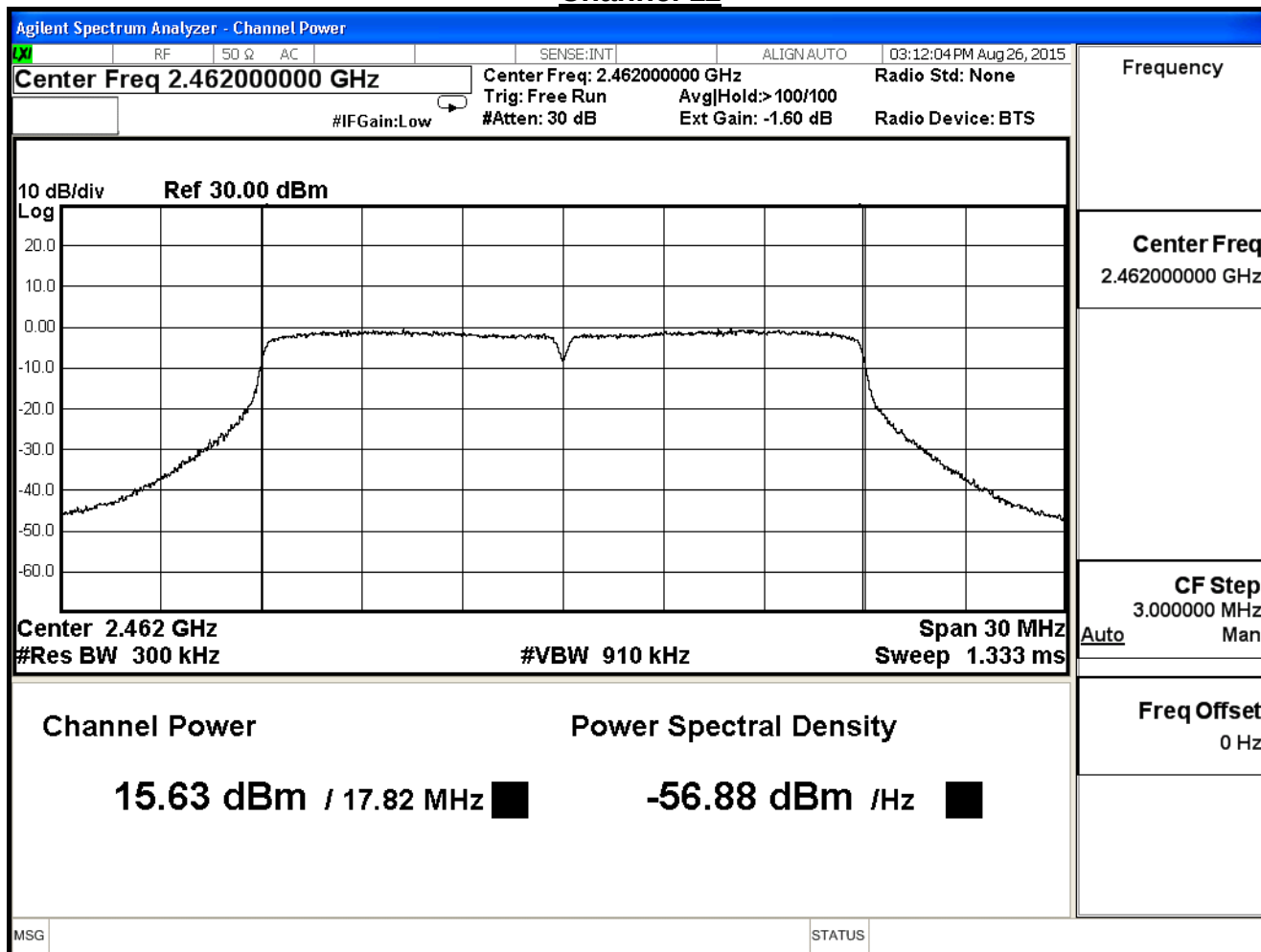
Channel 1



Channel 6



Channel 11



Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit_Beamforming Mode_AD890326		
Date of Test	2015/08/31	Test Site	SR7

IEEE 802.11n_20M (ANT 0+1+2)

Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
1	2412	20.32	≤ 29.43	Pass
6	2437	25.99	≤ 29.43	Pass
11	2462	20.24	≤ 29.43	Pass

Directional Antenna: $10\log(\text{Ant N}) + \text{Max Gain} = 3 + 3.57 = 6.57\text{dBi}$

Peak Transmit Output Limit: $30\text{dBm} - (6.57\text{dBi} - 6\text{dB}) = 29.43\text{ dBm}$

The worst emission of data rate is 6.5Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel	Frequency	Data Rate								
No	(MHz)	6.5	13	19.5	26	39	52	58.5	65	
1	2412	20.32	--	--	--	--	--	--	--	
6	2437	25.99	25.85	25.74	25.56	25.35	25.15	24.91	24.76	29.43dBm
11	2462	20.24	--	--	--	--	--	--	--	29.43dBm

Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit_Beamforming Mode_AD890326		
Date of Test	2015/08/31	Test Site	SR7

IEEE 802.11n_40M (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	12.23	≤ 29.43	Pass
6	2437	17.37	≤ 29.43	Pass
9	2452	14.81	≤ 29.43	Pass

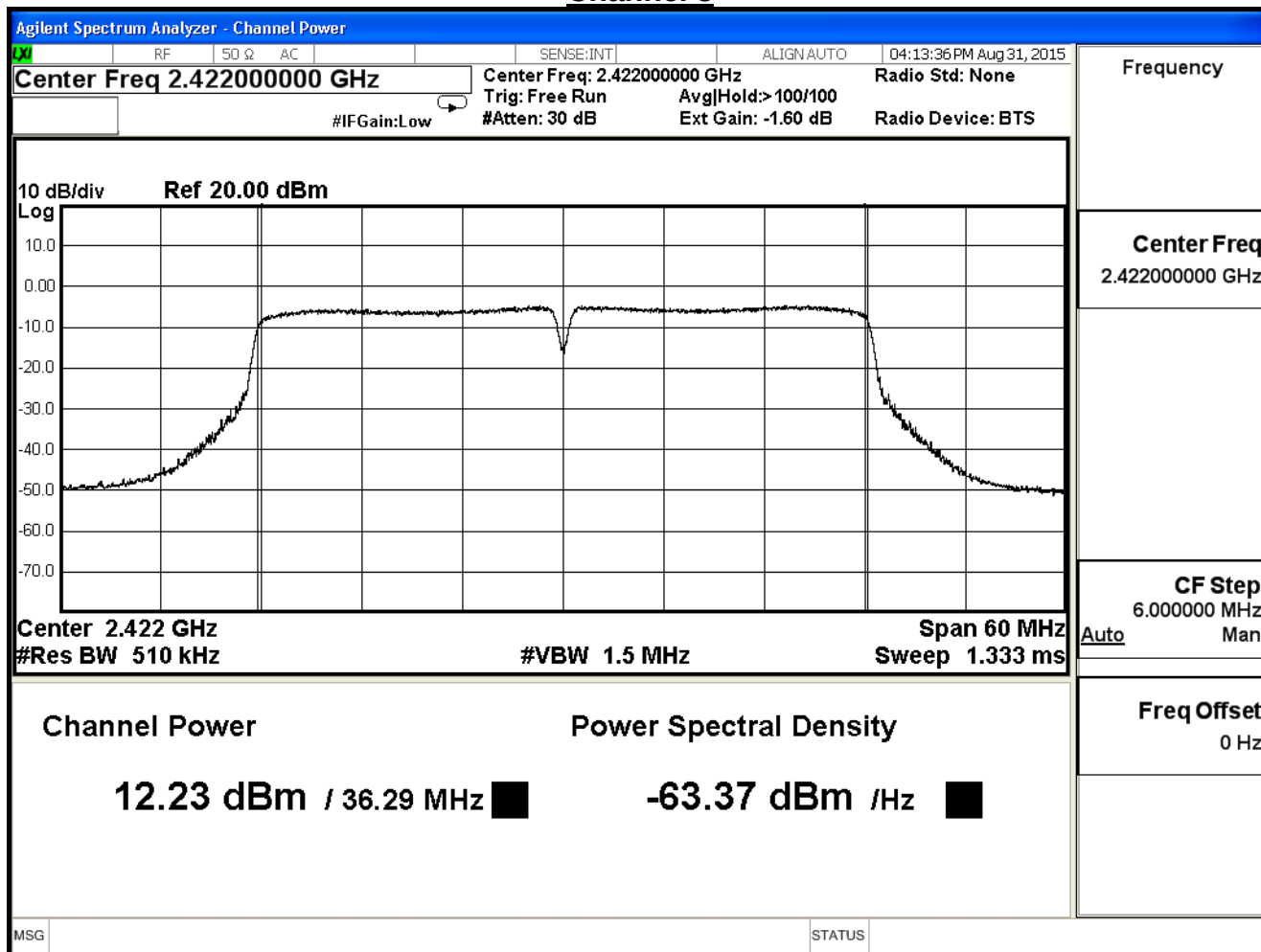
Directional Antenna: $10\log(\text{Ant N}) + \text{Max Gain} = 3 + 3.57 = 6.57\text{dBi}$

Peak Transmit Output Limit: $30\text{dBm} - (6.57\text{dBi} - 6\text{dB}) = 29.43\text{ dBm}$

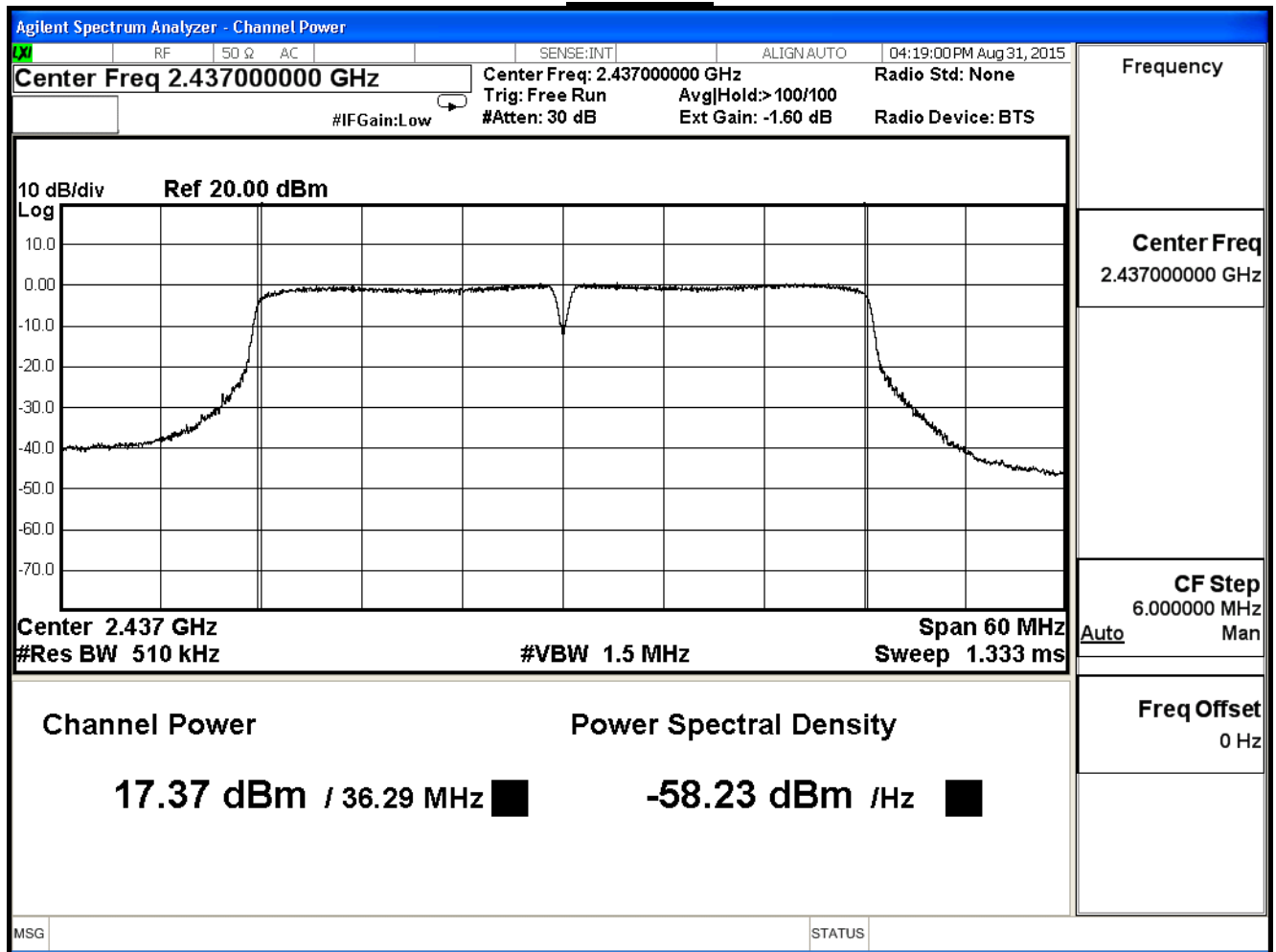
The worst emission of data rate is 13.5Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel	Frequency	Data Rate								
No	(MHz)	13.5	27	40.5	54	81	108	121.5	135	
3	2422	12.23	--	--	--	--	--	--	--	29.43dBm
6	2437	17.37	17.17	17.06	16.96	16.86	16.62	16.36	16.24	29.43dBm
9	2452	14.81	--	--	--	--	--	--	--	29.43dBm

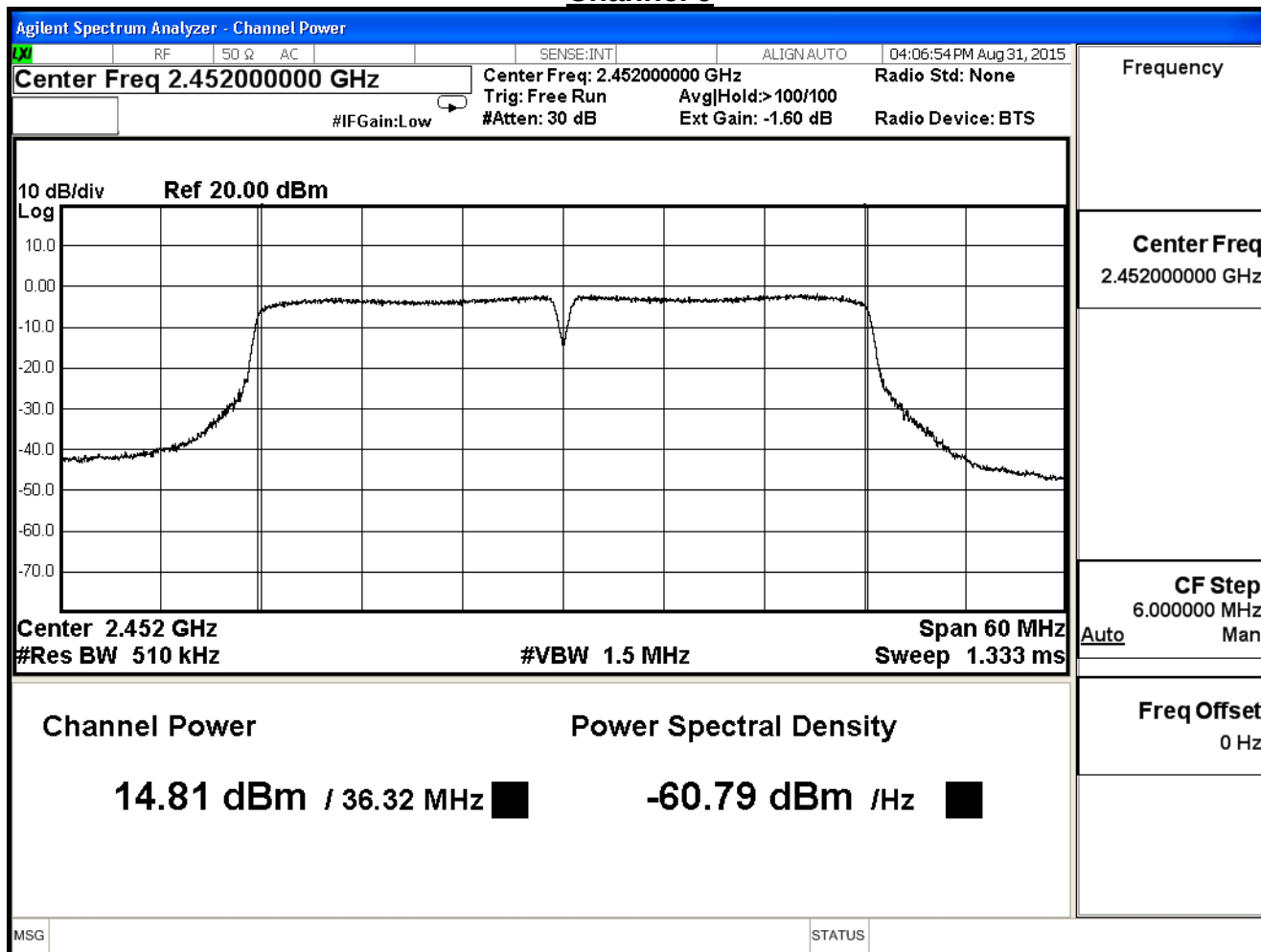
Channel 3



Channel 6



Channel 9



Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit_Beamforming Mode_AD890326		
Date of Test	2015/08/26	Test Site	SR7

IEEE 802.11n_40M (ANT 1)				
Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
3	2422	11.91	≤ 29.43	Pass
6	2437	17.57	≤ 29.43	Pass
9	2452	15.10	≤ 29.43	Pass

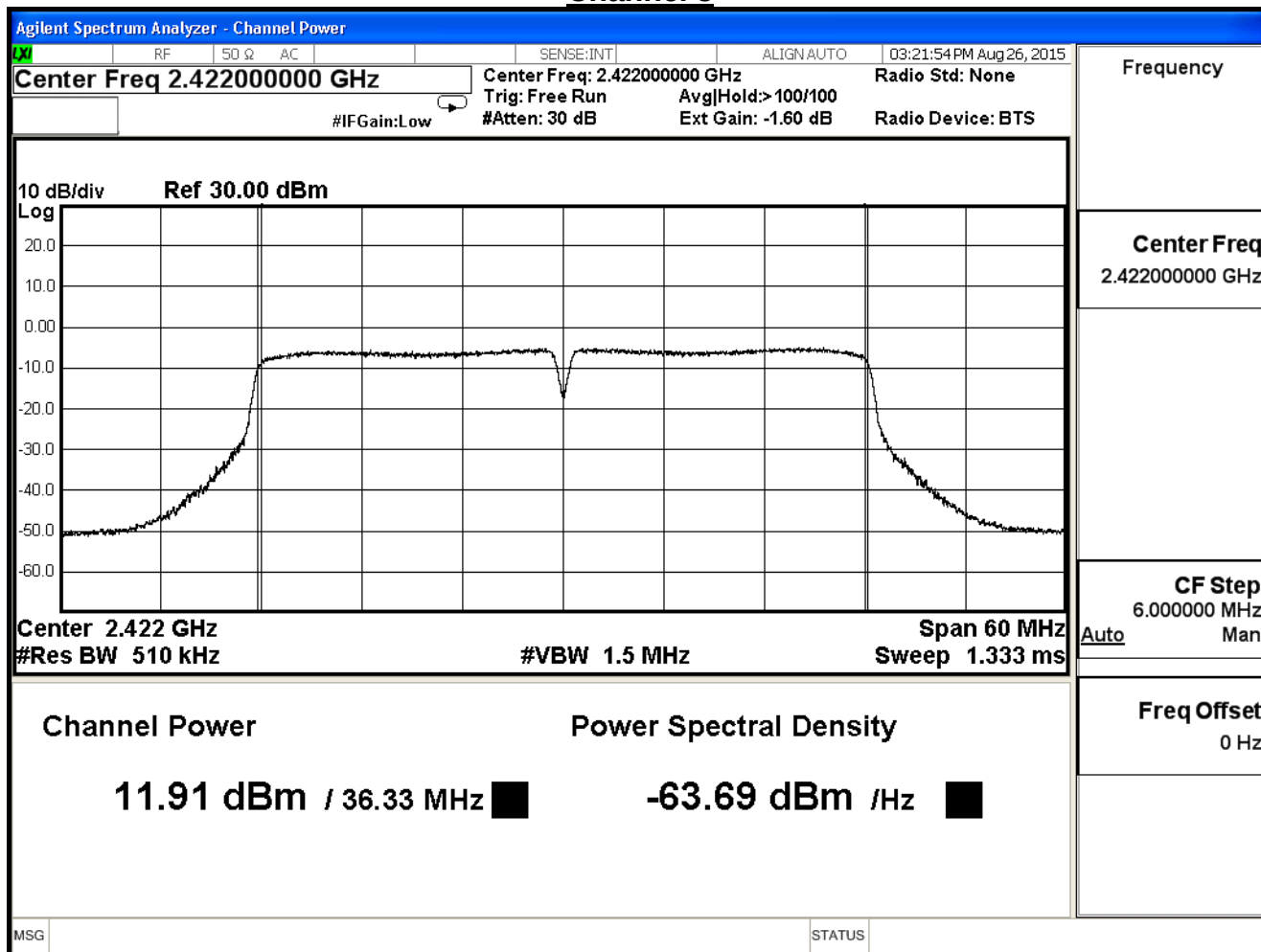
Directional Antenna: $10\log(\text{Ant N}) + \text{Max Gain} = 3 + 3.57 = 6.57\text{dBi}$

Peak Transmit Output Limit: $30\text{dBm} - (6.57\text{dBi} - 6\text{dB}) = 29.43\text{ dBm}$

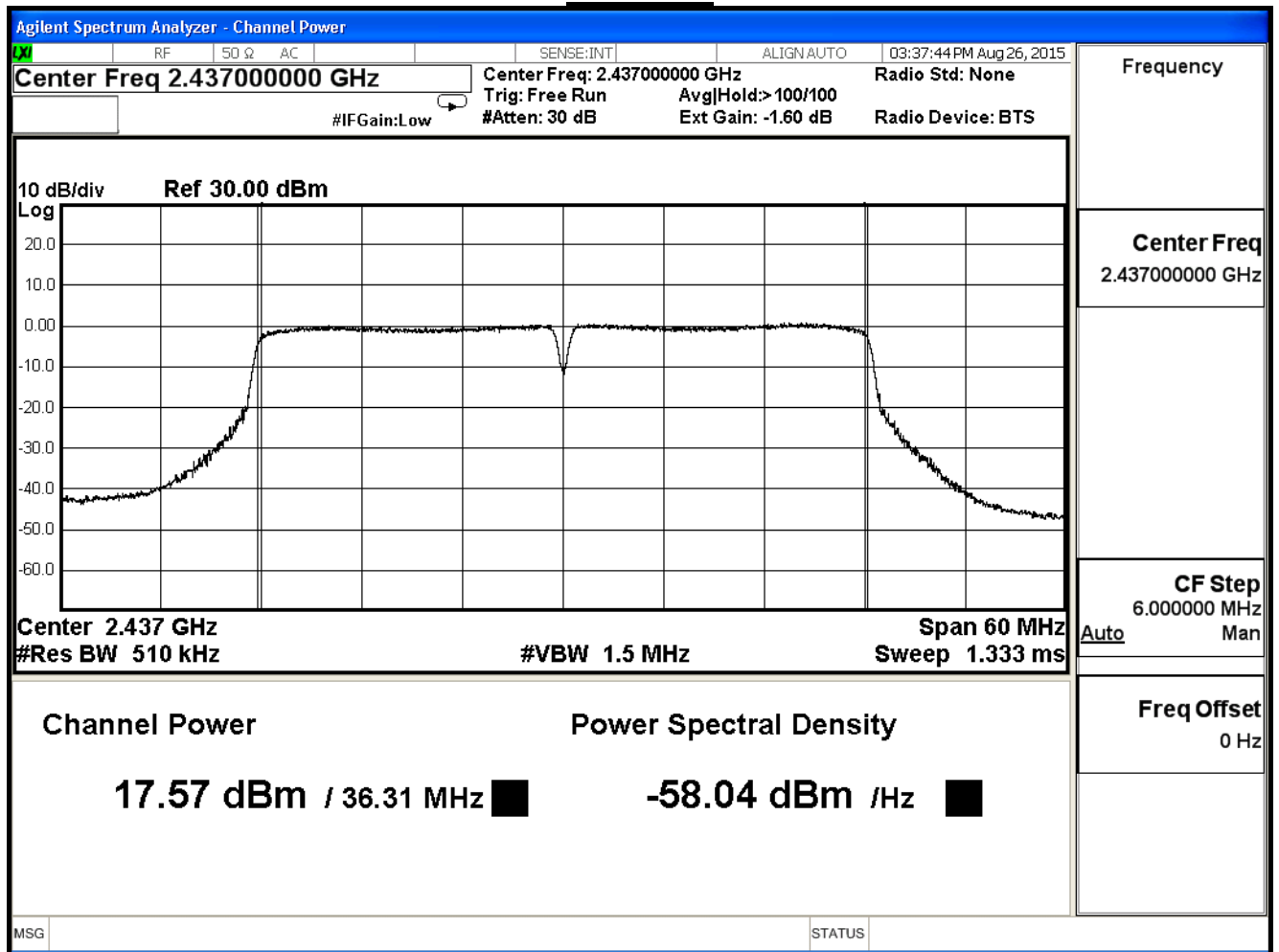
The worst emission of data rate is 13.5Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel	Frequency	Data Rate								
No	(MHz)	13.5	27	40.5	54	81	108	121.5	135	
3	2422	11.91	--	--	--	--	--	--	--	
6	2437	17.57	17.37	17.17	16.91	16.71	16.59	16.35	16.11	29.43dBm
9	2452	15.10	--	--	--	--	--	--	--	29.43dBm

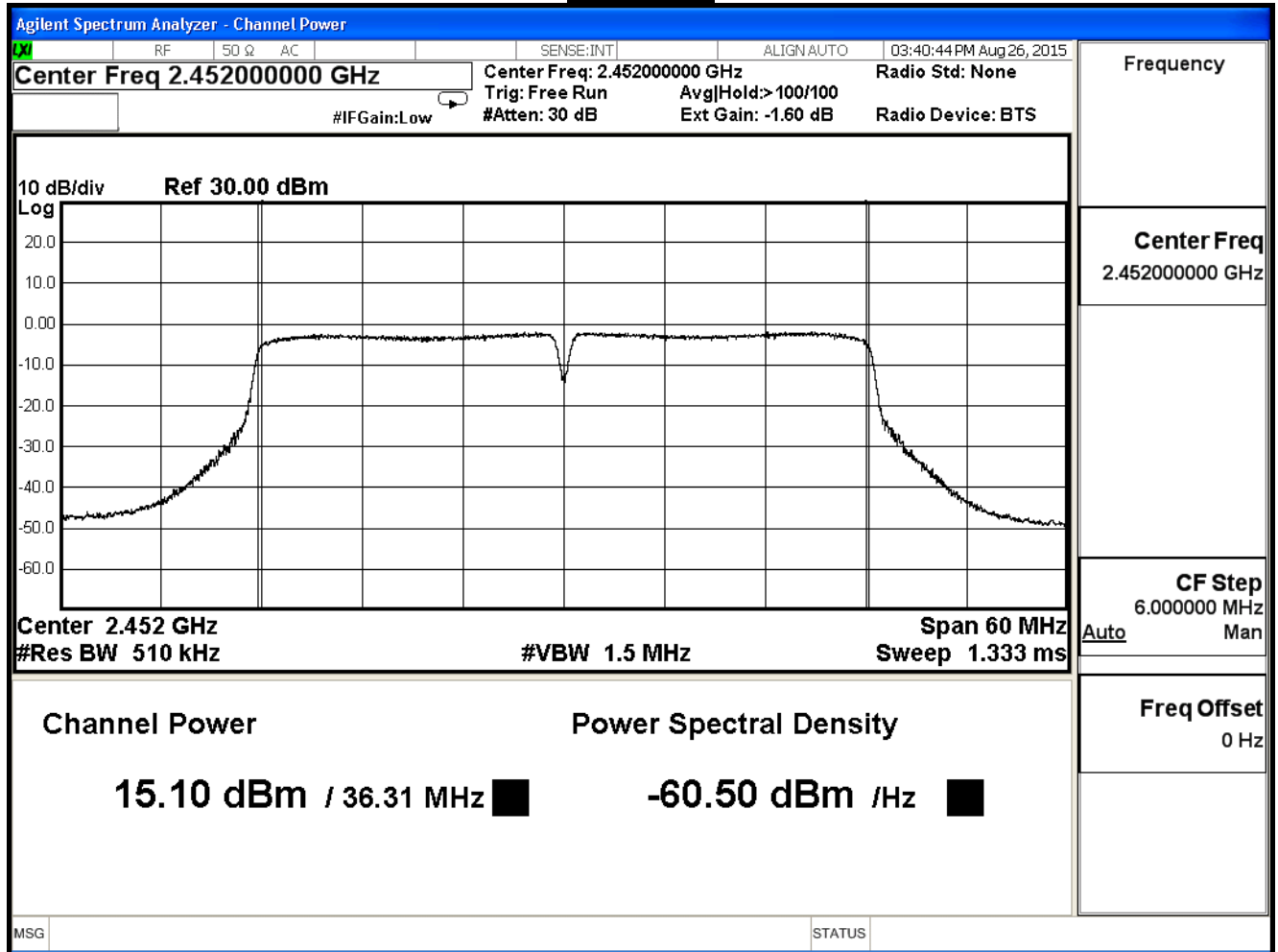
Channel 3



Channel 6



Channel 9



Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit_Beamforming Mode_AD890326		
Date of Test	2015/08/26	Test Site	SR7

IEEE 802.11n_40M (ANT 2)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	12.00	≤ 29.43	Pass
6	2437	17.71	≤ 29.43	Pass
9	2452	15.11	≤ 29.43	Pass

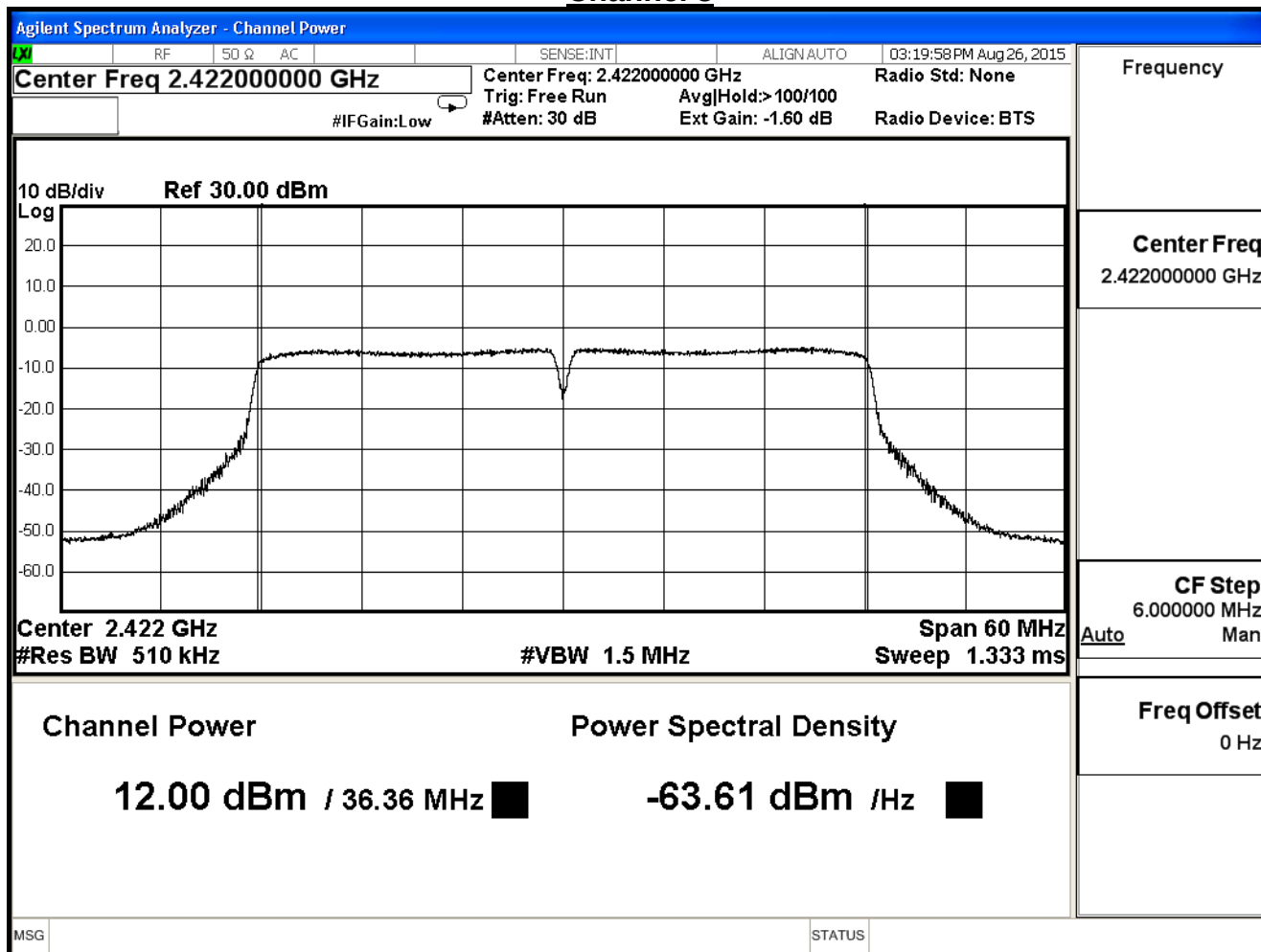
Directional Antenna: $10\log(\text{Ant N}) + \text{Max Gain} = 3 + 3.57 = 6.57\text{dBi}$

Peak Transmit Output Limit: $30\text{dBm} - (6.57\text{dBi} - 6\text{dB}) = 29.43\text{ dBm}$

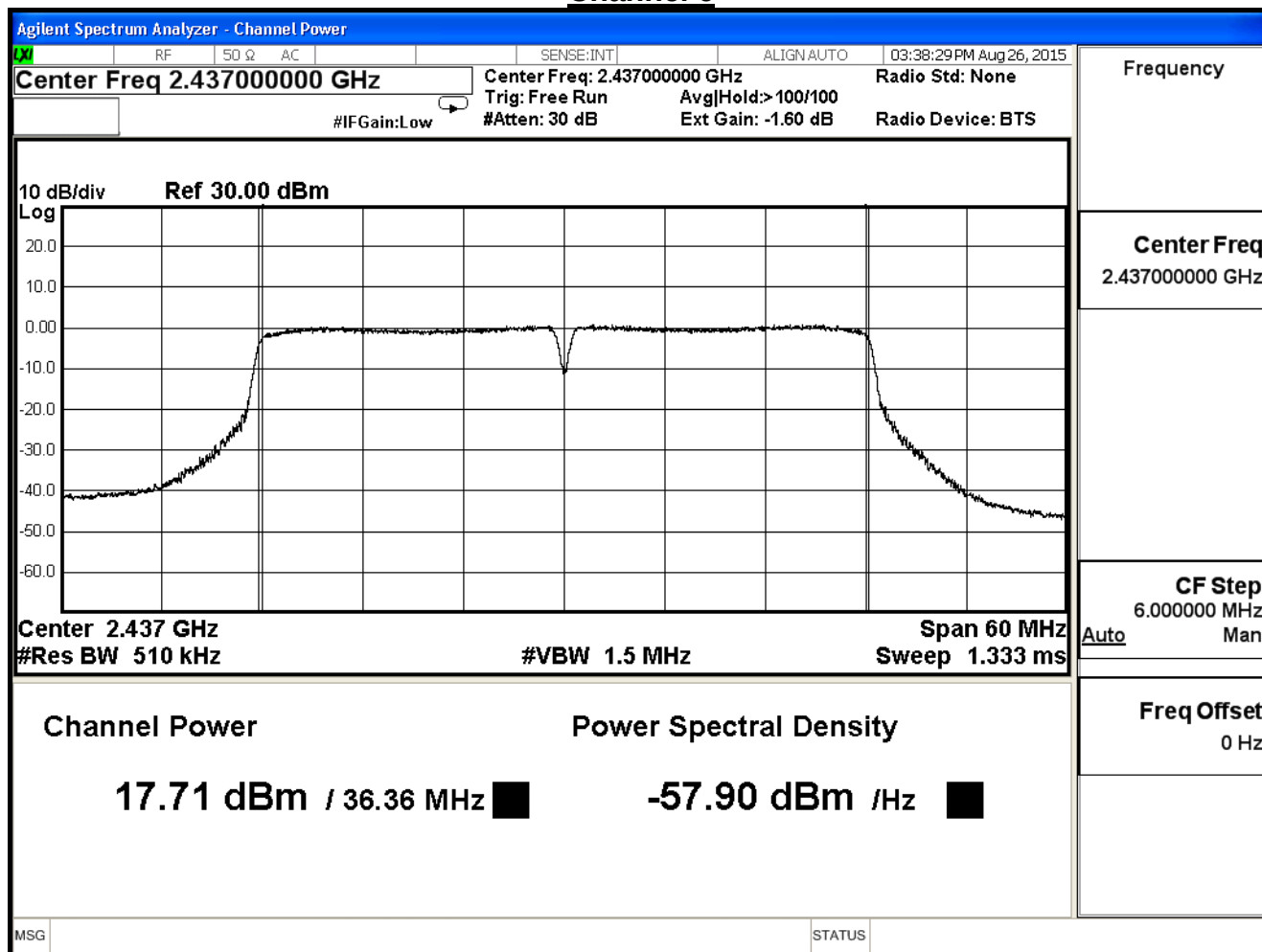
The worst emission of data rate is 13.5Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel	Frequency	Data Rate								
No	(MHz)	13.5	27	40.5	54	81	108	121.5	135	
3	2422	12.00	--	--	--	--	--	--	--	
6	2437	17.71	17.51	17.40	17.30	17.18	16.94	16.70	16.46	29.43dBm
9	2452	15.11	--	--	--	--	--	--	--	29.43dBm

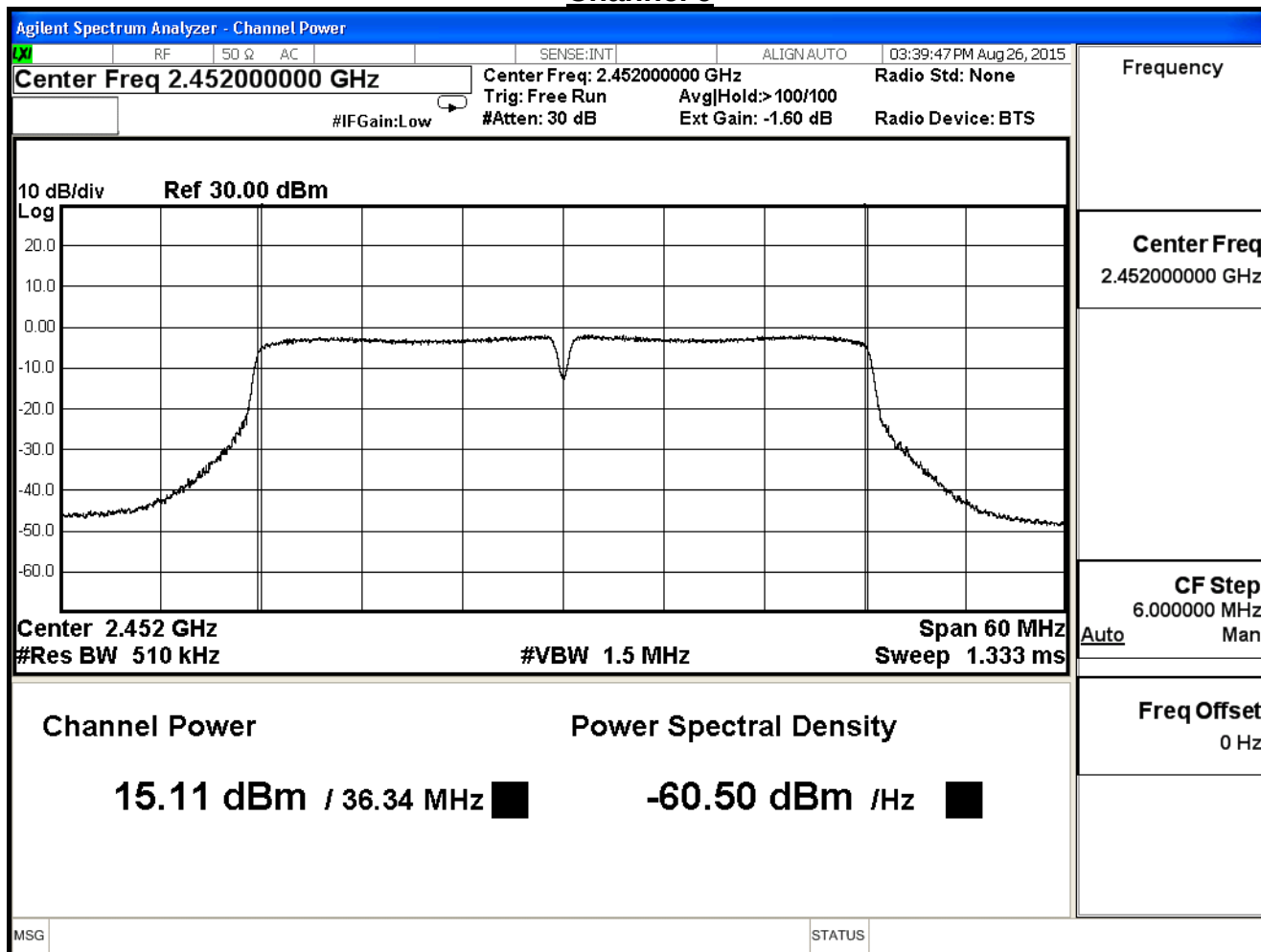
Channel 3



Channel 6



Channel 9



Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit_Beamforming Mode_AD890326		
Date of Test	2015/08/26	Test Site	SR7

IEEE 802.11n_40M (ANT 0+1+2)

Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
3	2422	16.82	≤ 29.43	Pass
6	2437	22.32	≤ 29.43	Pass
9	2452	19.78	≤ 29.43	Pass

Directional Antenna: $10\log(\text{Ant N}) + \text{Max Gain} = 3 + 3.57 = 6.57\text{dBi}$

Peak Transmit Output Limit: $30\text{dBm} - (6.57\text{dBi} - 6\text{dB}) = 29.43\text{ dBm}$

The worst emission of data rate is 13.5Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel	Frequency	Data Rate								
No	(MHz)	13.5	27	40.5	54	81	108	121.5	135	
3	2422	16.82	--	--	--	--	--	--	--	
6	2437	22.32	22.12	21.98	21.83	21.69	21.49	21.24	21.04	29.43dBm
9	2452	19.78	--	--	--	--	--	--	--	29.43dBm

Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit Beamforming Mode AD890326		
Date of Test	2015/09/14	Test Site	SR7

IEEE 802.11n 20MHz (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	22.01	≤ 28.40	Pass
157	5785	23.55	≤ 28.40	Pass
165	5825	23.65	≤ 28.40	Pass

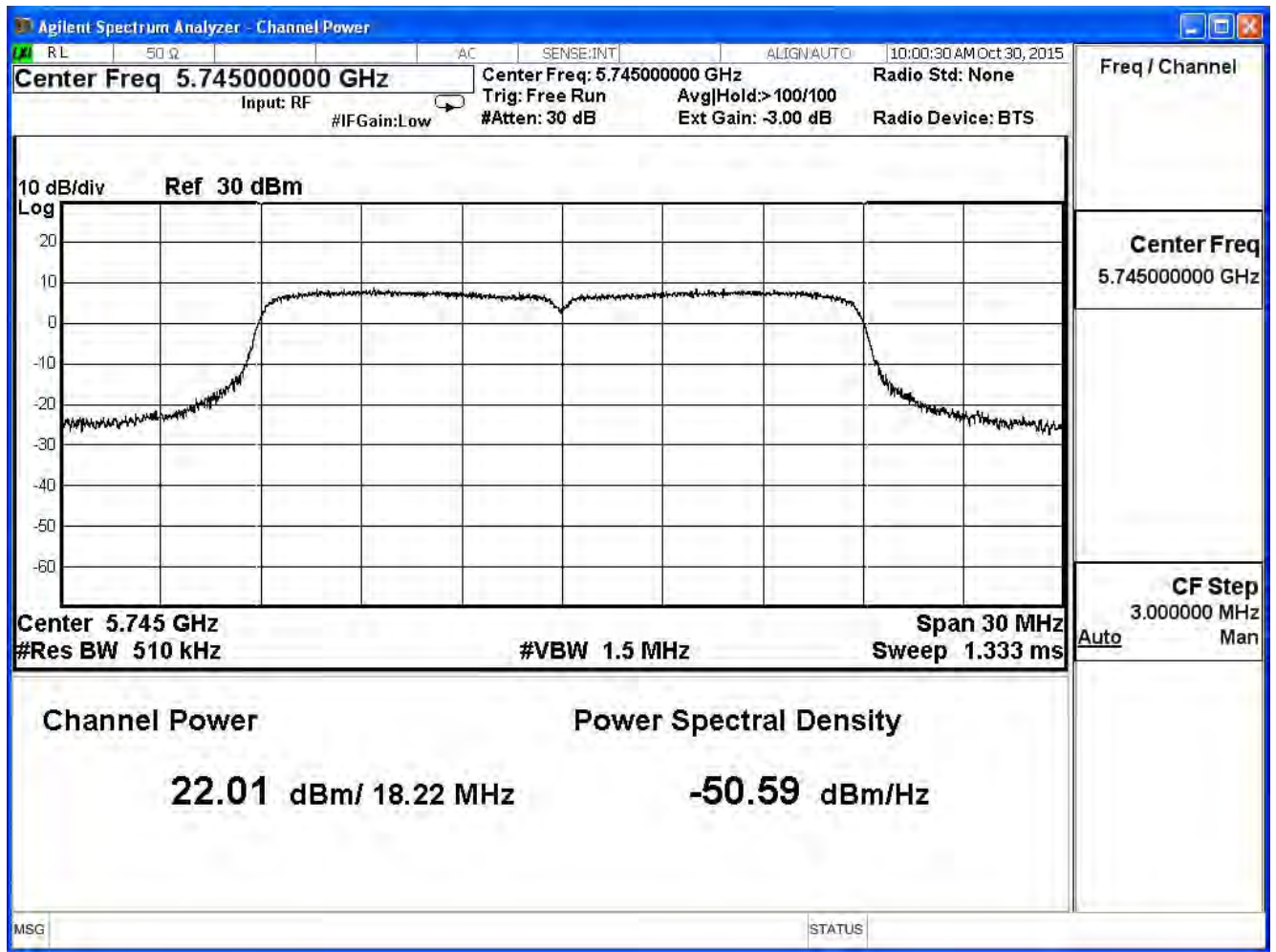
Directional Antenna: $10\log(\text{Ant N}) + \text{Max Gain} = 3 + 4.6 = 7.60\text{dBi}$

Peak Transmit Output Limit: $30\text{dBm} - (7.60\text{dBi} - 6\text{dB}) = 28.40\text{ dBm}$

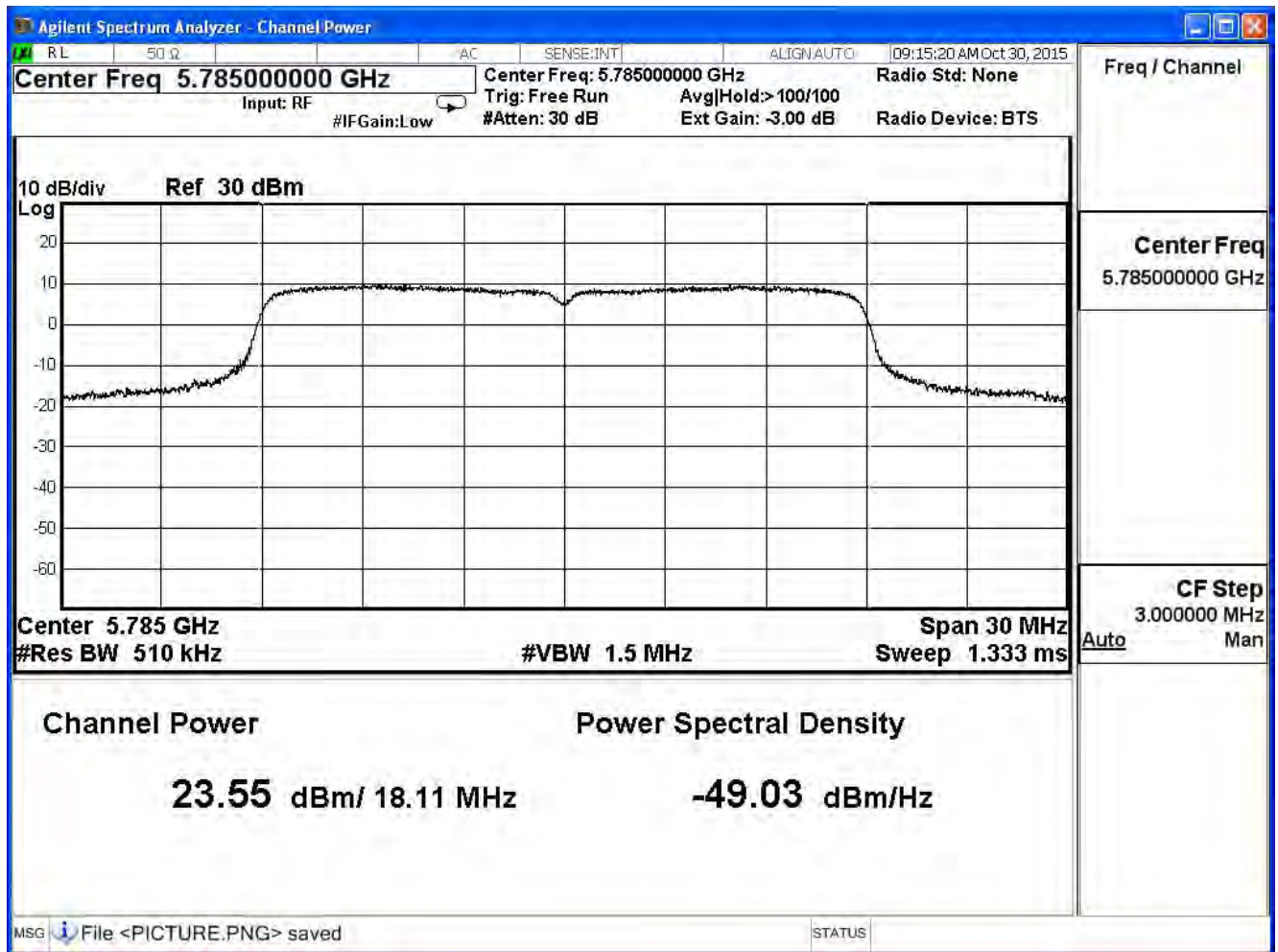
The worst emission of data rate is 6.5 Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		6.5	13	19.5	26	39	52	58.5	65	
149	5745	22.01	--	--	--	--	--	--	--	28.40dBm
157	5785	23.55	23.43	23.31	23.07	22.95	22.83	22.71	22.47	28.40dBm
165	5825	23.65	--	--	--	--	--	--	--	28.40dBm

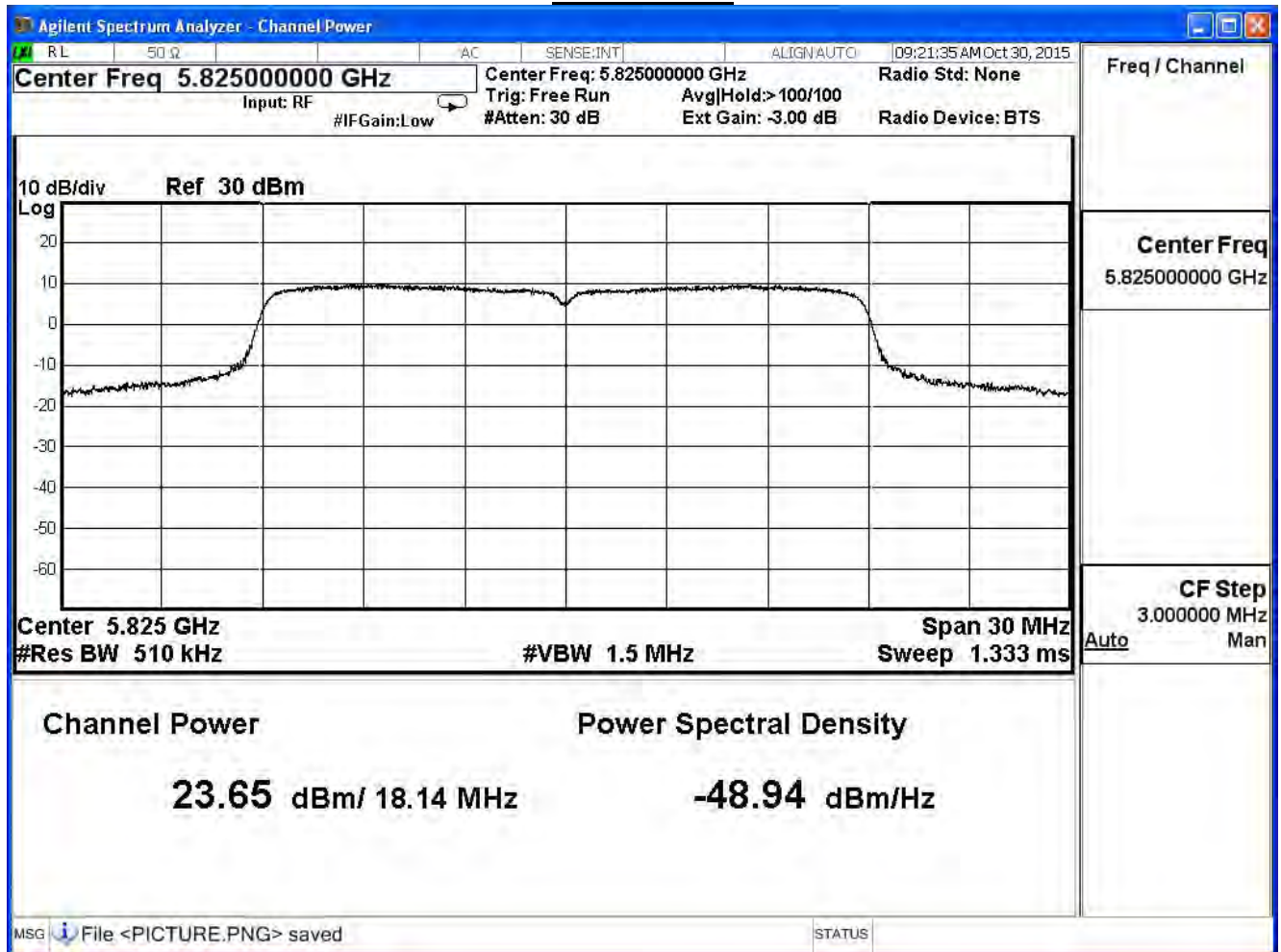
Channel 149



Channel 157



Channel 165



Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit_Beamforming Mode_AD890326		
Date of Test	2015/09/14	Test Site	SR7

IEEE 802.11n 20MHz (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	22.10	≤ 28.40	Pass
157	5785	23.54	≤ 28.40	Pass
165	5825	23.46	≤ 28.40	Pass

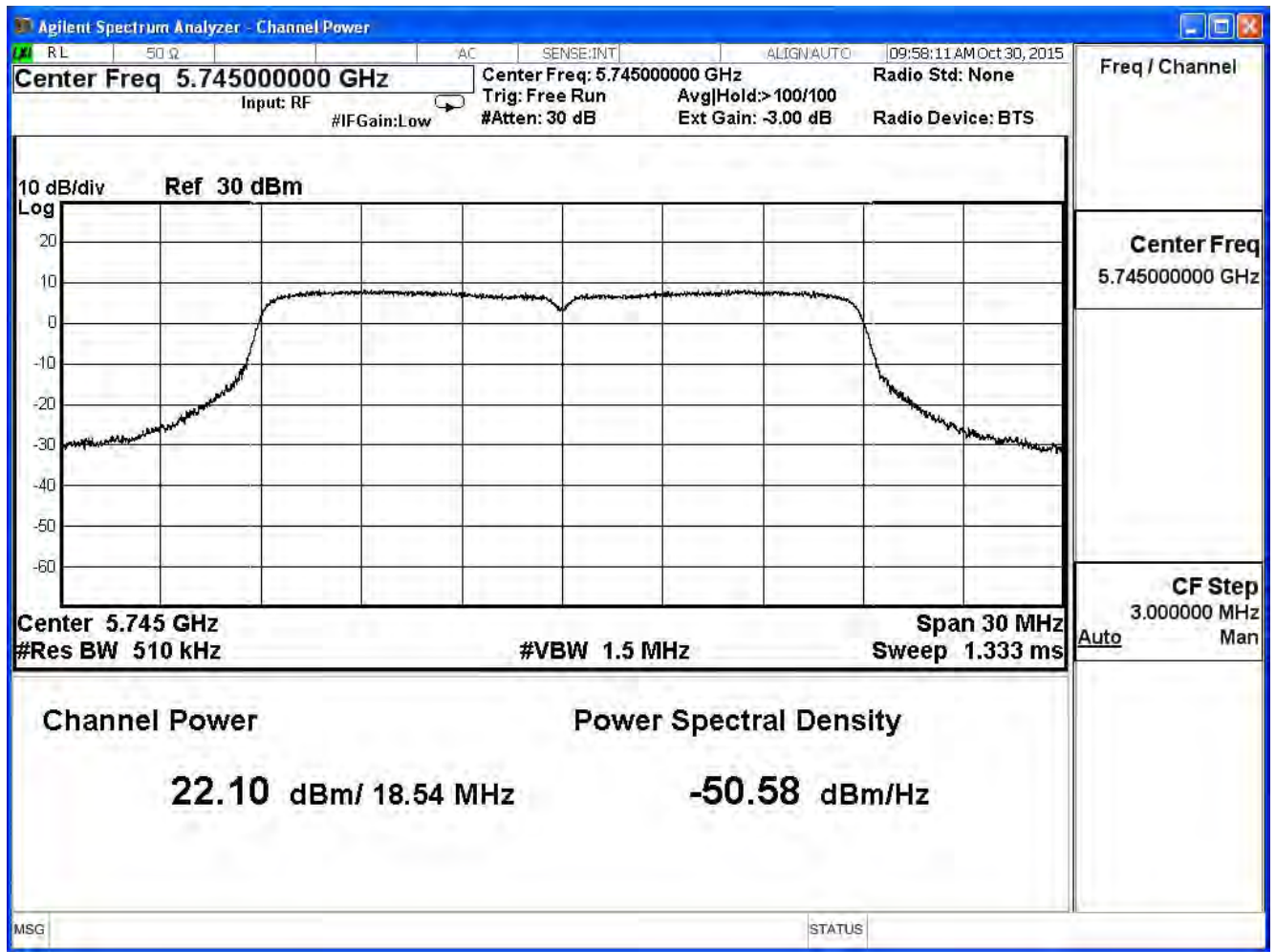
Directional Antenna: $10\log(\text{Ant N}) + \text{Max Gain} = 3 + 4.6 = 7.60\text{dBi}$

Peak Transmit Output Limit: $30\text{dBm} - (7.60\text{dBi} - 6\text{dB}) = 28.40\text{ dBm}$

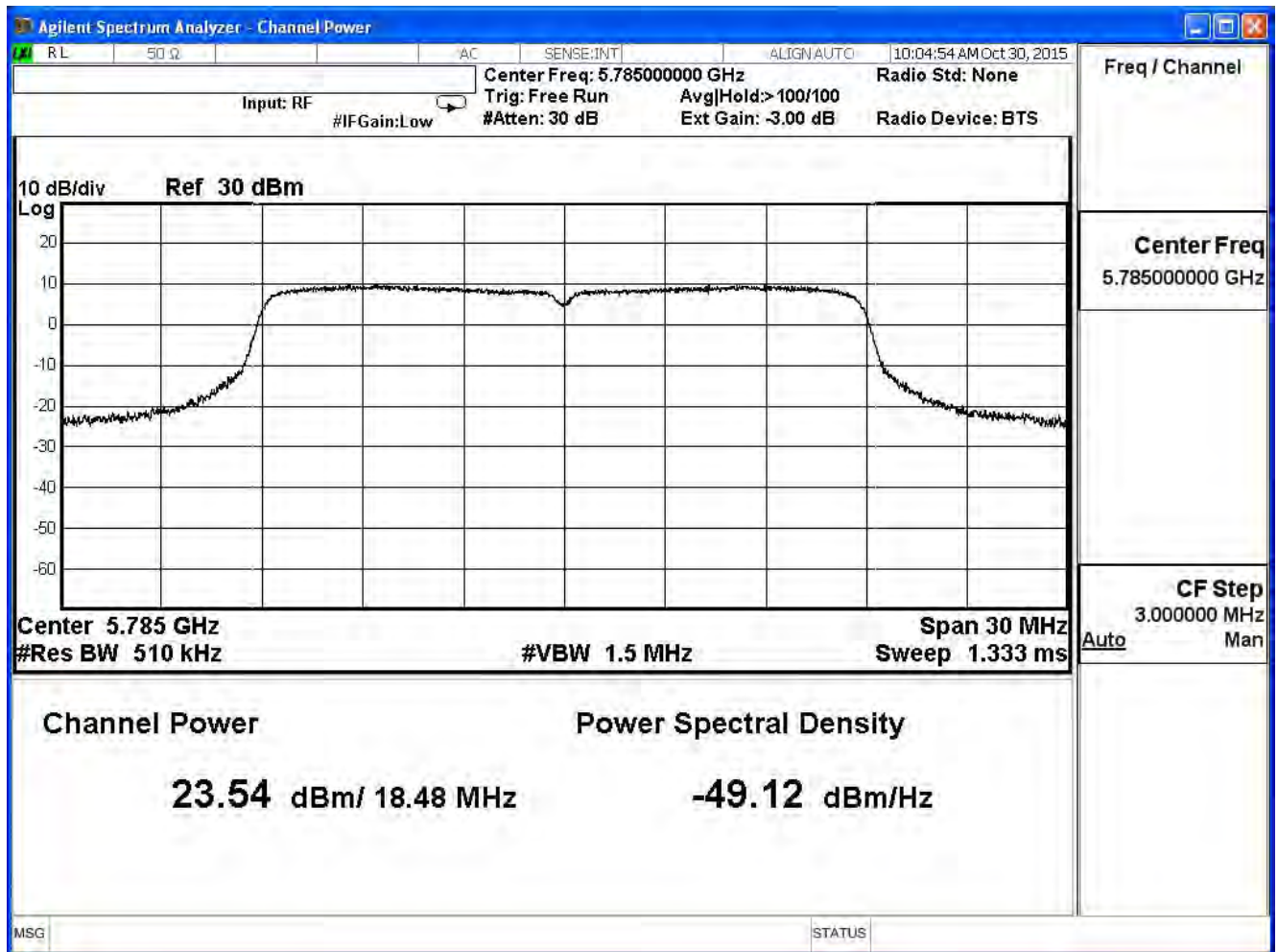
The worst emission of data rate is 6.5Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		6.5	13	19.5	26	39	52	58.5	65	
149	5745	22.10	--	--	--	--	--	--	--	28.40dBm
157	5785	23.54	23.42	23.18	22.94	22.70	22.46	22.22	22.10	28.40dBm
165	5825	23.46	--	--	--	--	--	--	--	28.40dBm

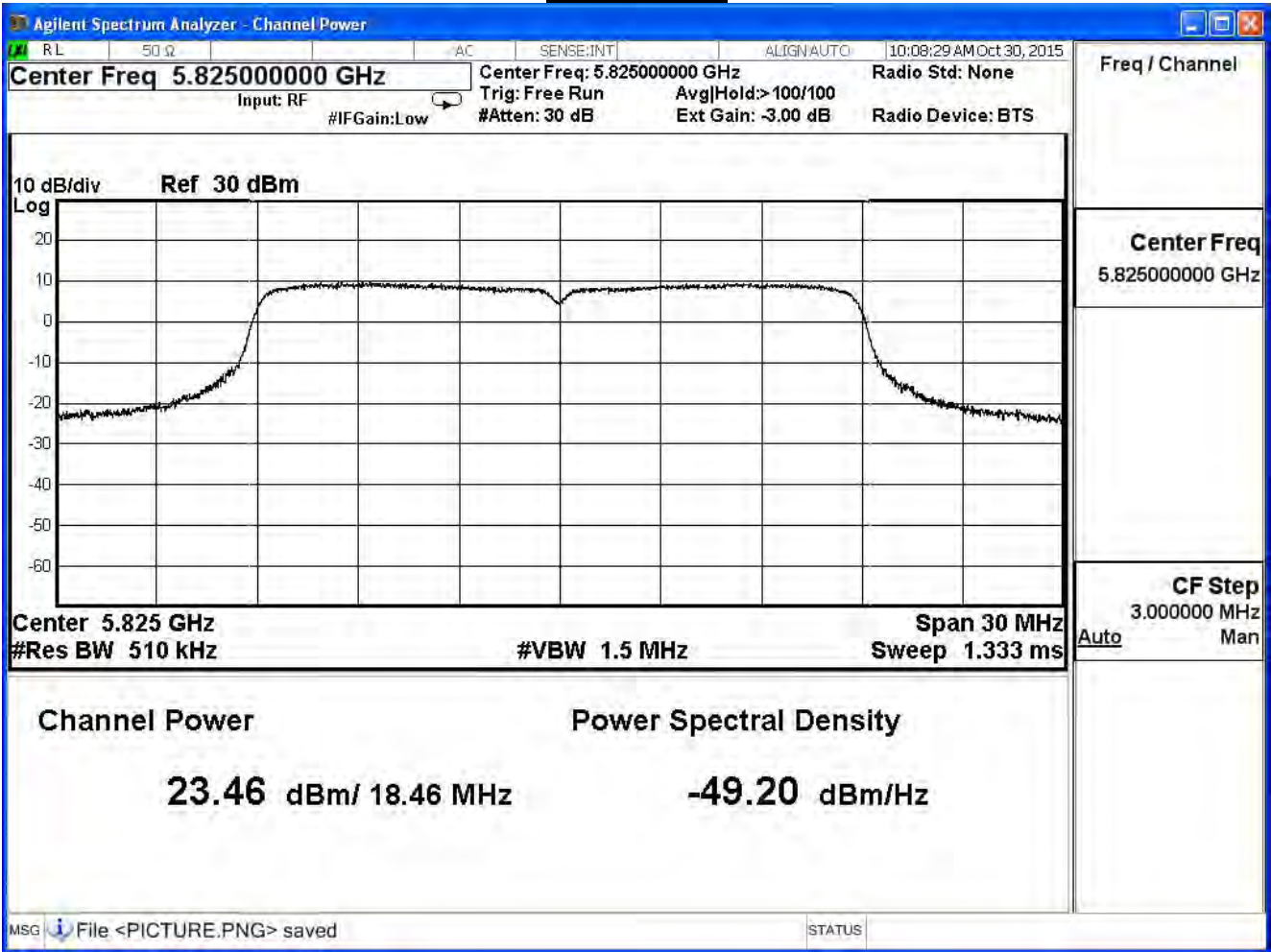
Channel 149



Channel 157



Channel 165



Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit Beamforming Mode AD890326		
Date of Test	2015/09/14	Test Site	SR7

IEEE 802.11n 20MHz (ANT 2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	22.00	≤ 28.40	Pass
157	5785	23.49	≤ 28.40	Pass
165	5825	23.54	≤ 28.40	Pass

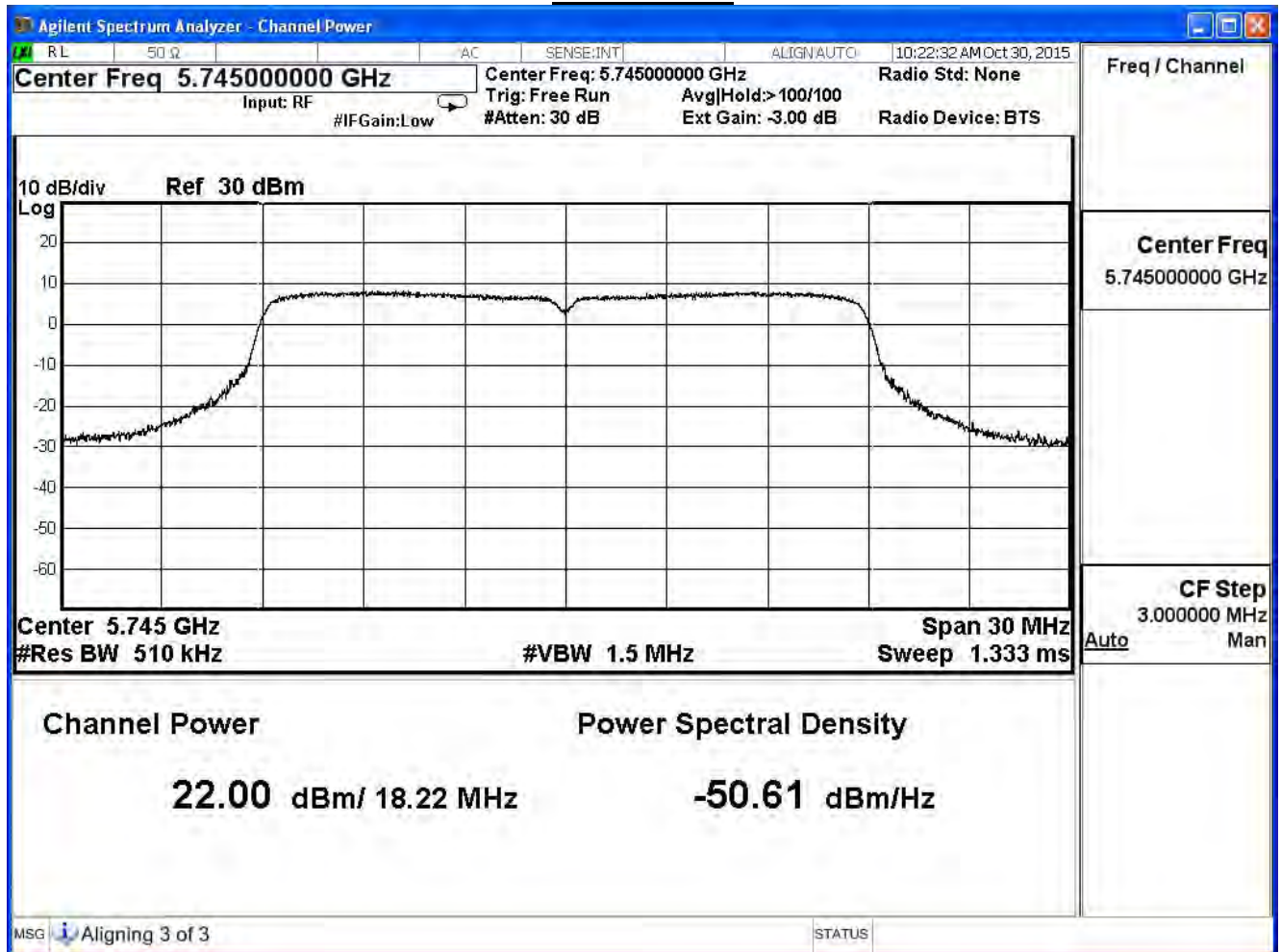
Directional Antenna: $10\log(\text{Ant N}) + \text{Max Gain} = 3 + 4.6 = 7.60\text{dBi}$

Peak Transmit Output Limit: $30\text{dBm} - (7.60\text{dBi} - 6\text{dB}) = 28.40\text{ dBm}$

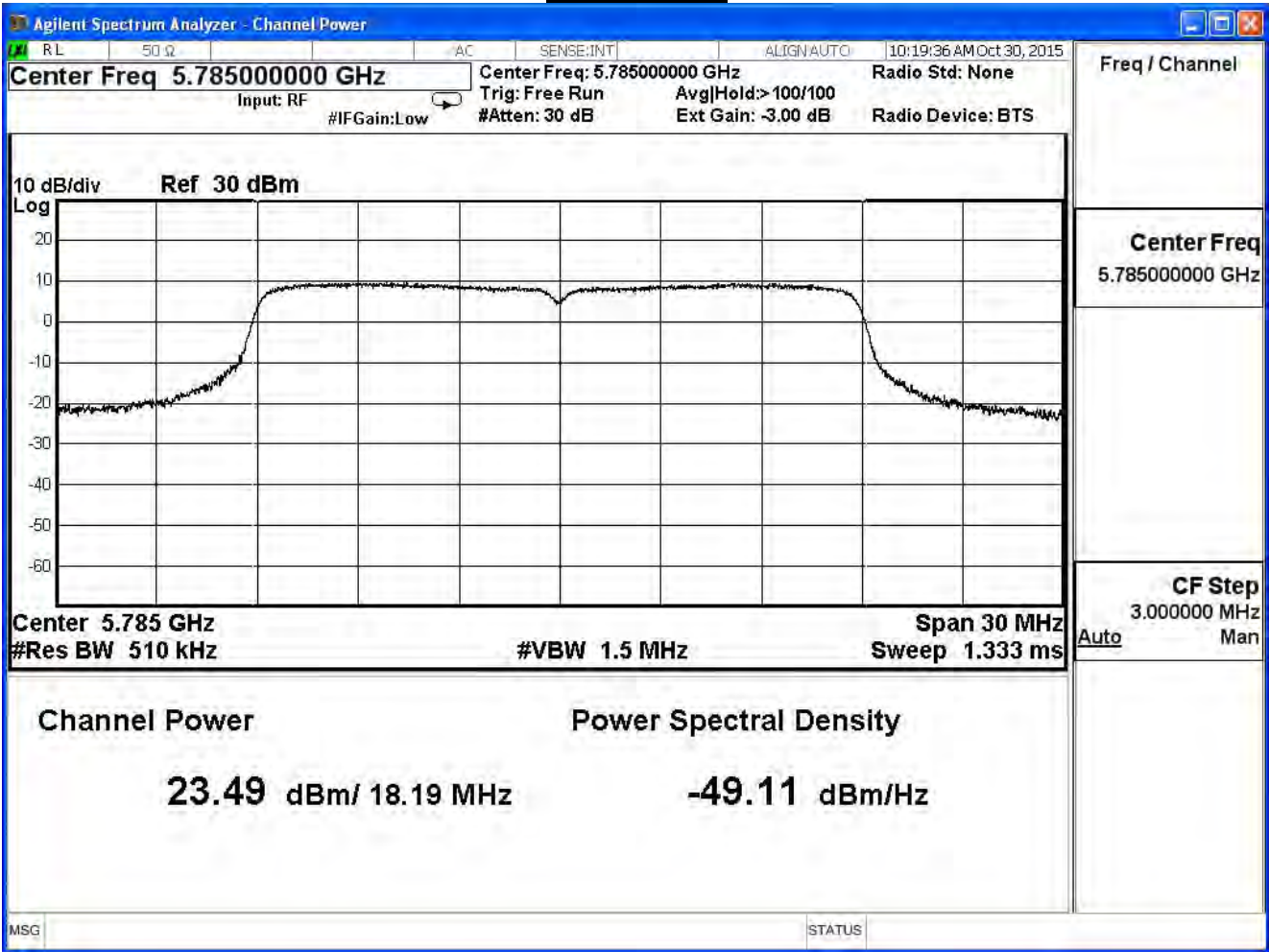
The worst emission of data rate is 6.5Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		6.5	13	19.5	26	39	52	58.5	65	
149	5745	22.00	--	--	--	--	--	--	--	28.40dBm
157	5785	23.49	23.25	23.01	22.77	22.53	22.29	22.05	21.93	28.40dBm
165	5825	23.54	--	--	--	--	--	--	--	28.40dBm

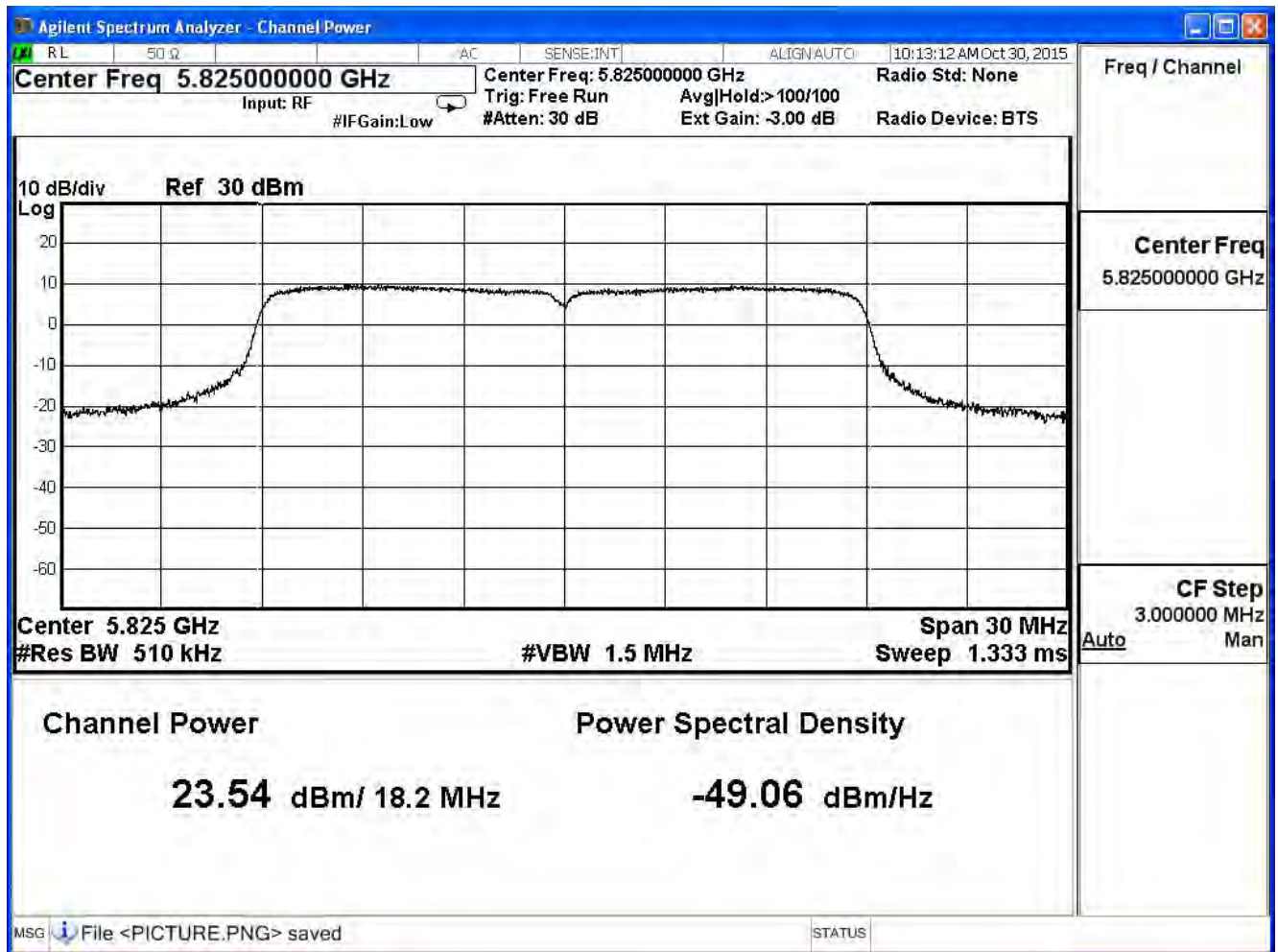
Channel 149



Channel 157



Channel 165



Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit_Beamforming Mode_AD890326		
Date of Test	2015/09/14	Test Site	SR7

IEEE 802.11n 20MHz (ANT 0+1+2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	26.81	≤ 28.40	Pass
157	5785	28.30	≤ 28.40	Pass
165	5825	28.32	≤ 28.40	Pass

Directional Antenna: $10\log(\text{Ant N}) + \text{Max Gain} = 3 + 4.6 = 7.60\text{dBi}$

Peak Transmit Output Limit: $30\text{dBm} - (7.60\text{dBi} - 6\text{dB}) = 28.40\text{ dBm}$

The worst emission of data rate is 6.5Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		6.5	13	19.5	26	39	52	58.5	65	
149	5745	26.81	--	--	--	--	--	--	--	28.40dBm
157	5785	28.30	28.14	27.94	27.70	27.50	27.30	27.11	26.94	28.40dBm
165	5825	28.32	--	--	--	--	--	--	--	28.40dBm

Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit_Beamforming Mode_AD890326		
Date of Test	2015/09/14	Test Site	SR7

IEEE802.11n 40MHz(ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	20.46	≤ 28.40	Pass
159	5795	22.10	≤ 28.40	Pass

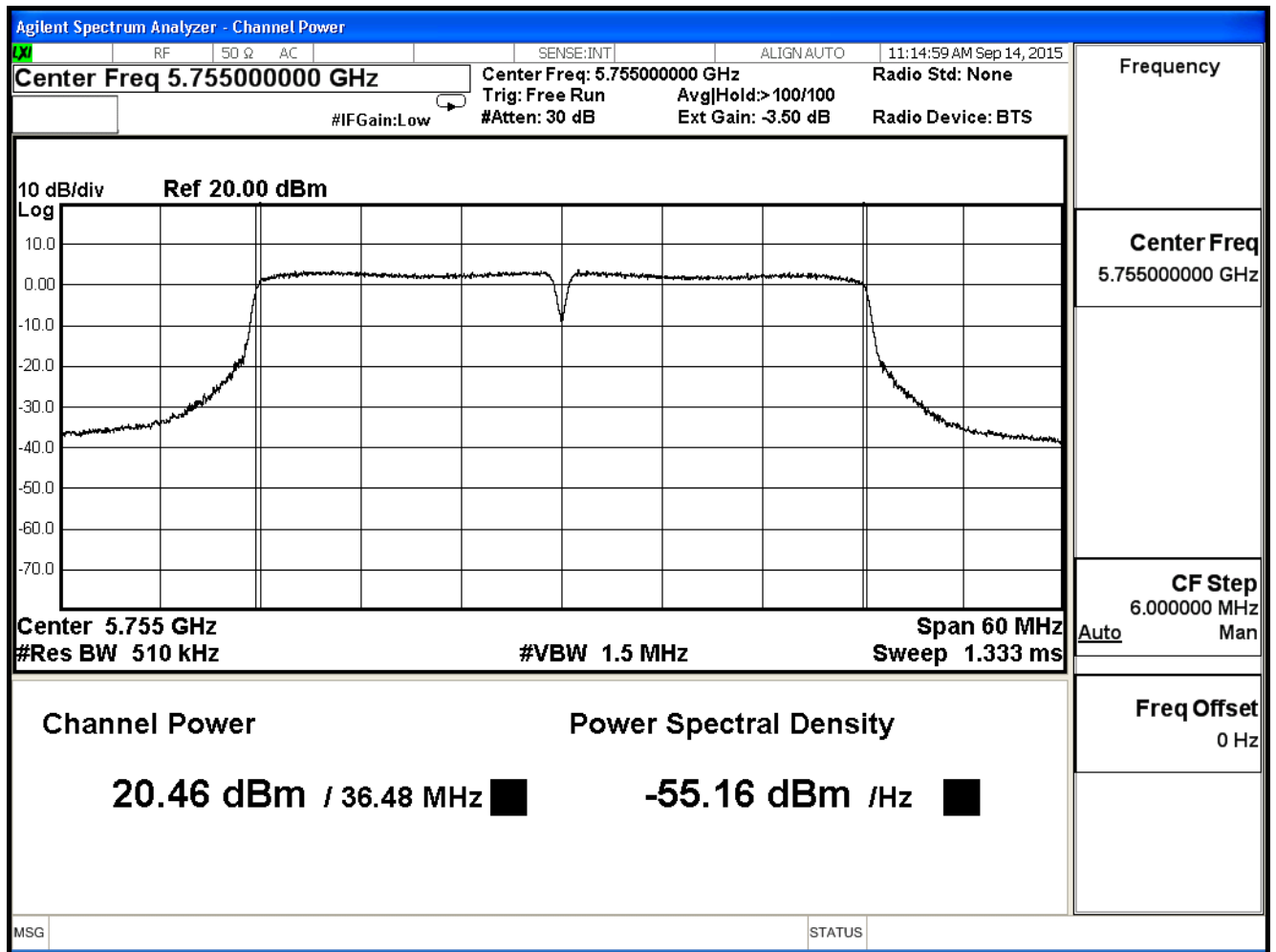
Directional Antenna: $10\log(\text{Ant N}) + \text{Max Gain} = 3 + 4.6 = 7.60\text{dBi}$

Peak Transmit Output Limit: $30\text{dBm} - (7.60\text{dBi} - 6\text{dB}) = 28.40\text{ dBm}$

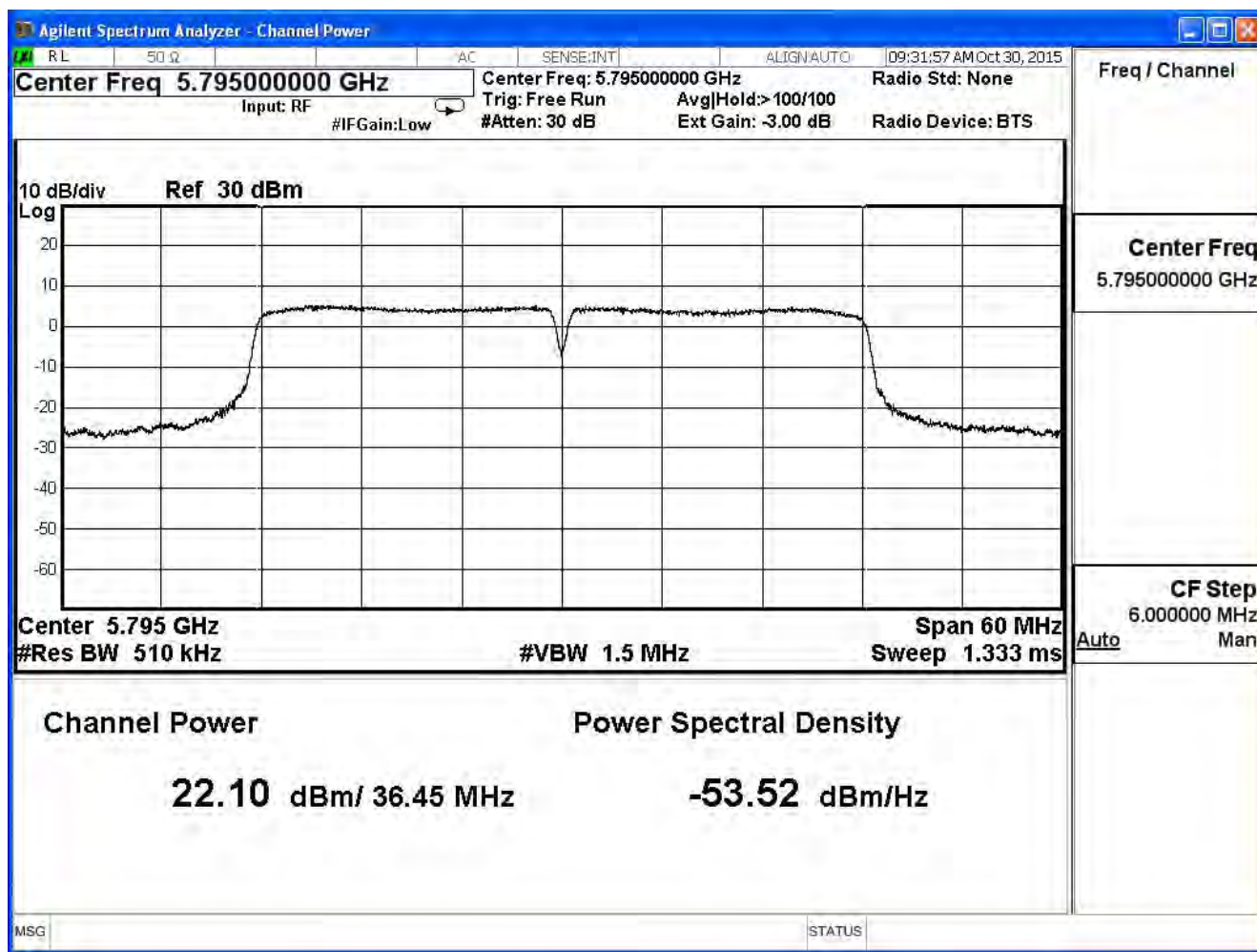
The worst emission of data rate is 13.5 Mbps.

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	20.46	--	--	--	--	--	--	--	28.40dBm
159	5795	22.10	22.02	21.82	21.62	21.52	21.40	21.16	20.96	28.40dBm

Channel 151



Channel 159



Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit Beamforming Mode AD890326		
Date of Test	2015/09/14	Test Site	SR7

IEEE802.11n 40MHz(ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	20.53	≤ 28.40	Pass
159	5795	22.39	≤ 28.40	Pass

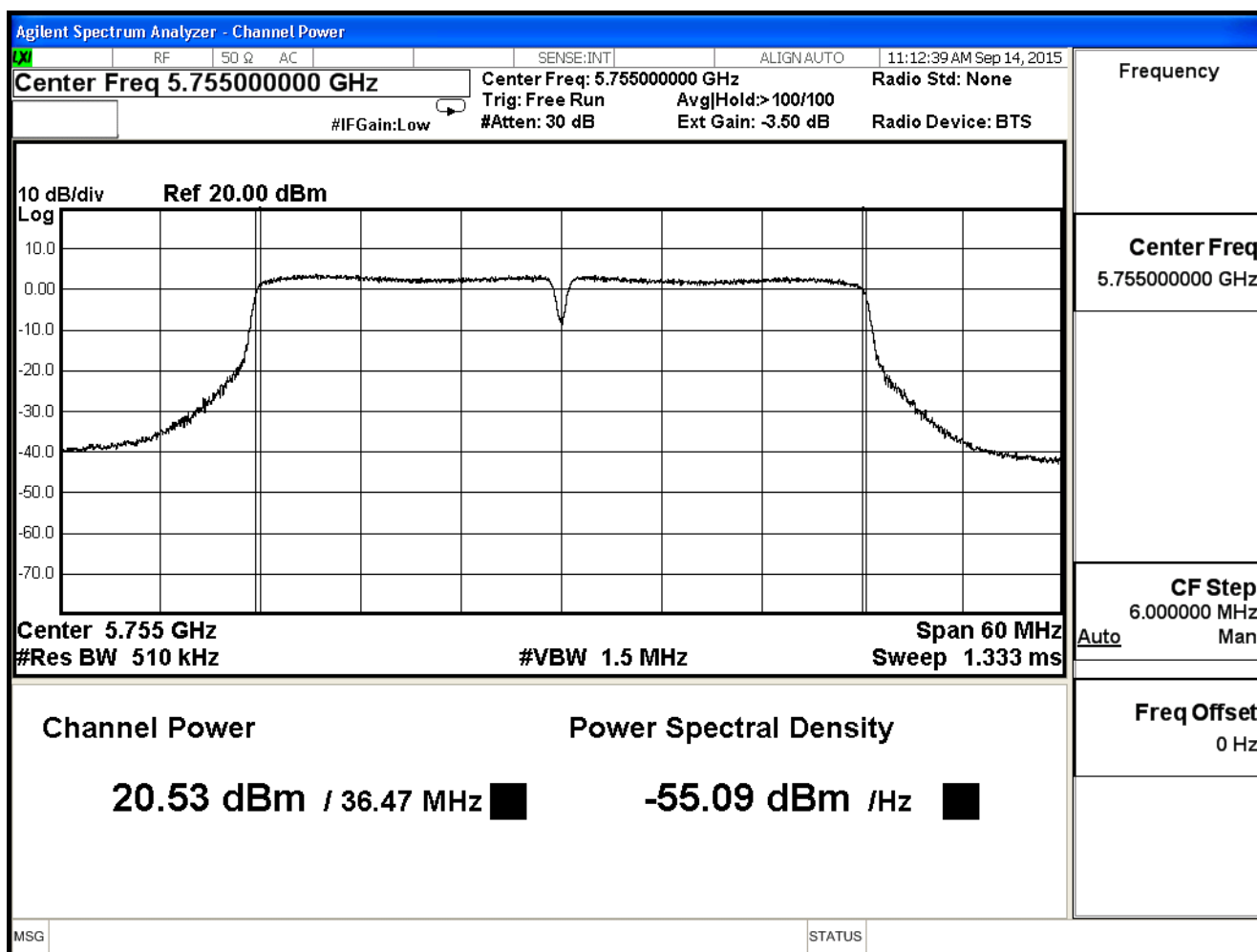
Directional Antenna: $10\log(\text{Ant N}) + \text{Max Gain} = 3 + 4.6 = 7.60\text{dBi}$

Peak Transmit Output Limit: $30\text{dBm} - (7.60\text{dBi} - 6\text{dB}) = 28.40\text{ dBm}$

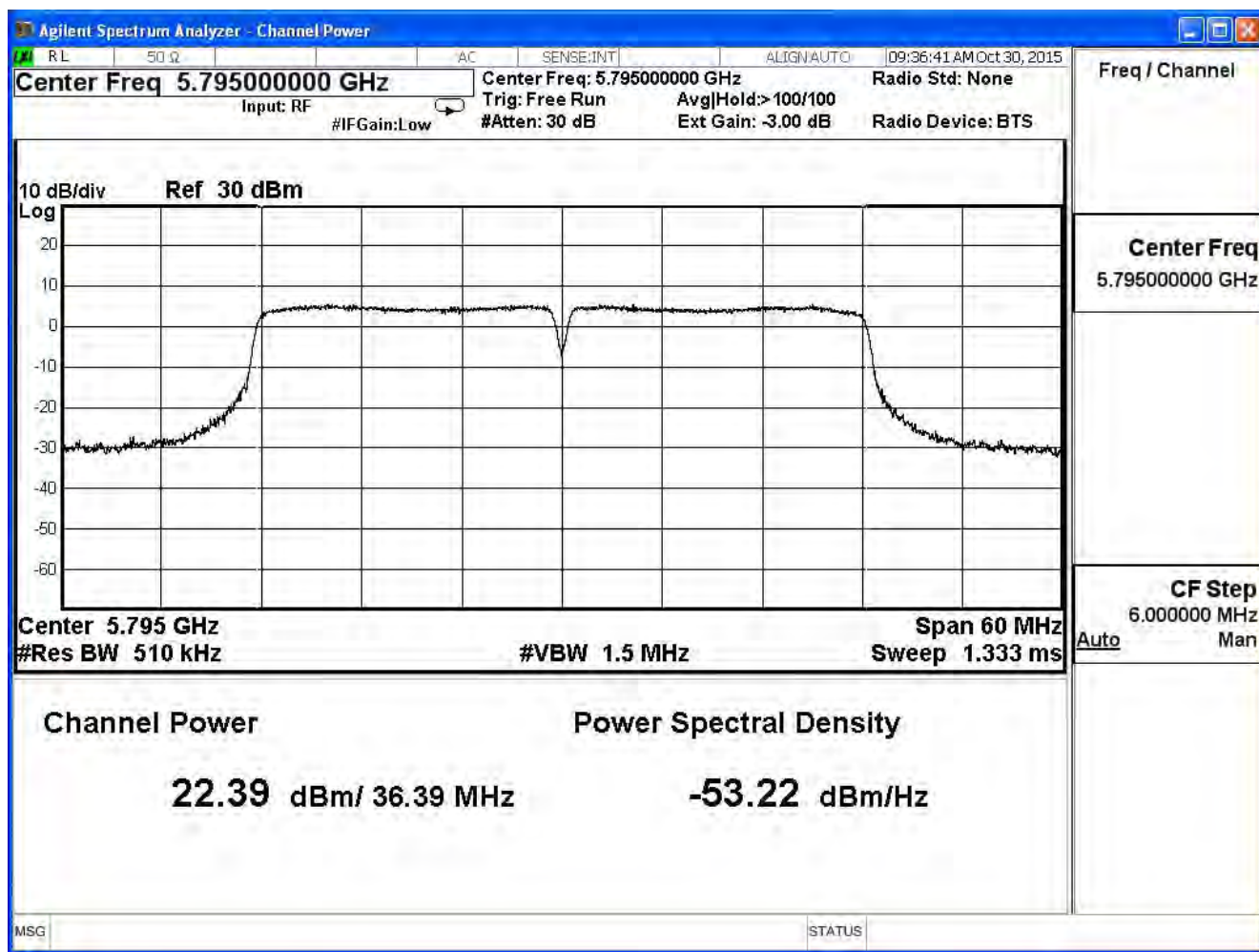
The worst emission of data rate is 13.5 Mbps.

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	20.53	--	--	--	--	--	--	--	28.40dBm
159	5795	22.39	22.19	22.10	21.90	21.74	21.62	21.38	21.26	28.40dBm

Channel 151



Channel 159



Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit Beamforming Mode AD890326		
Date of Test	2015/09/14	Test Site	SR7

IEEE802.11n 40MHz(ANT 2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	20.86	≤ 28.40	Pass
159	5795	22.46	≤ 28.40	Pass

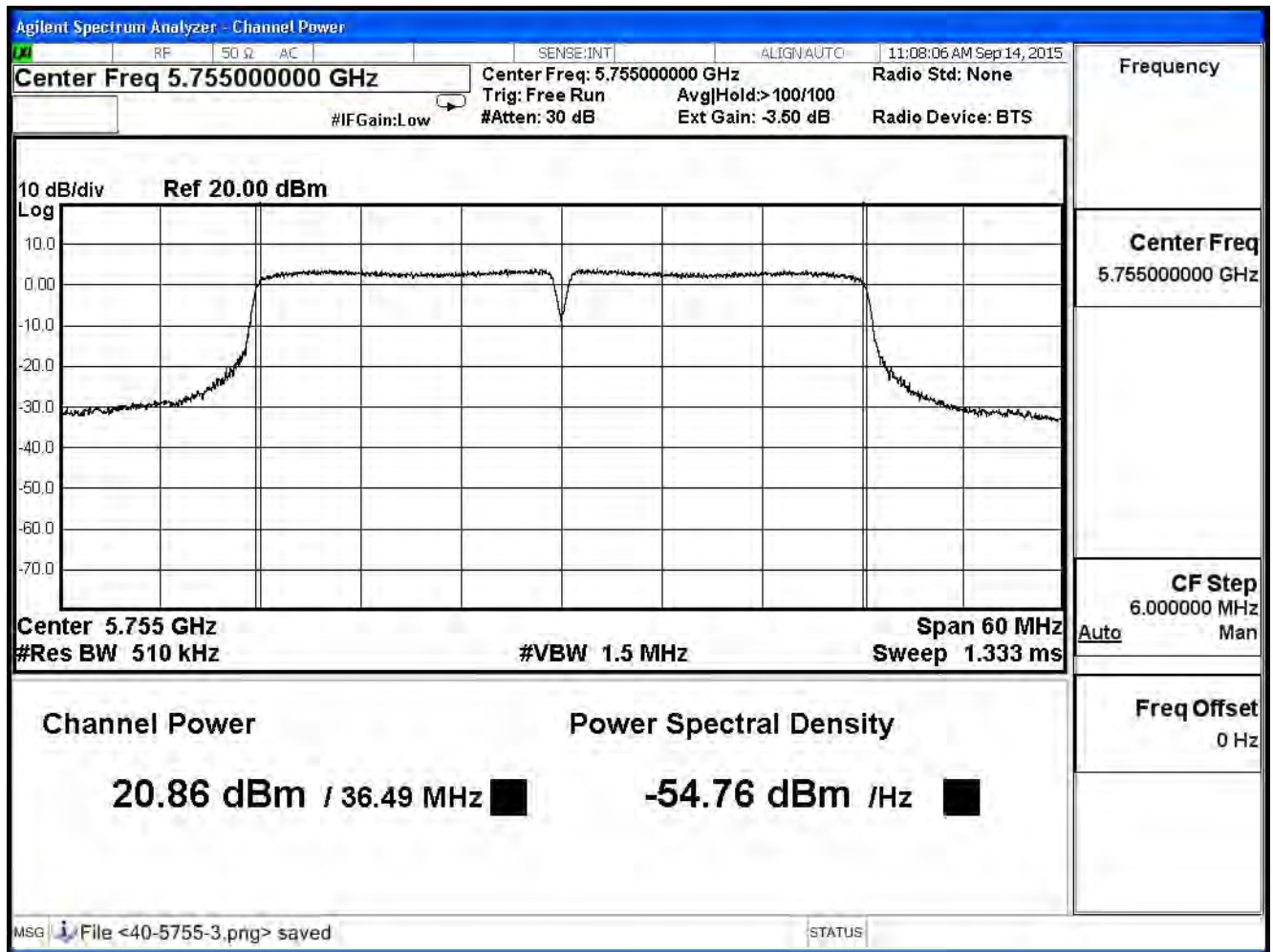
Directional Antenna: $10\log(\text{Ant N}) + \text{Max Gain} = 3 + 4.6 = 7.60\text{dBi}$

Peak Transmit Output Limit: $30\text{dBm} - (7.60\text{dBi} - 6\text{dB}) = 28.40\text{ dBm}$

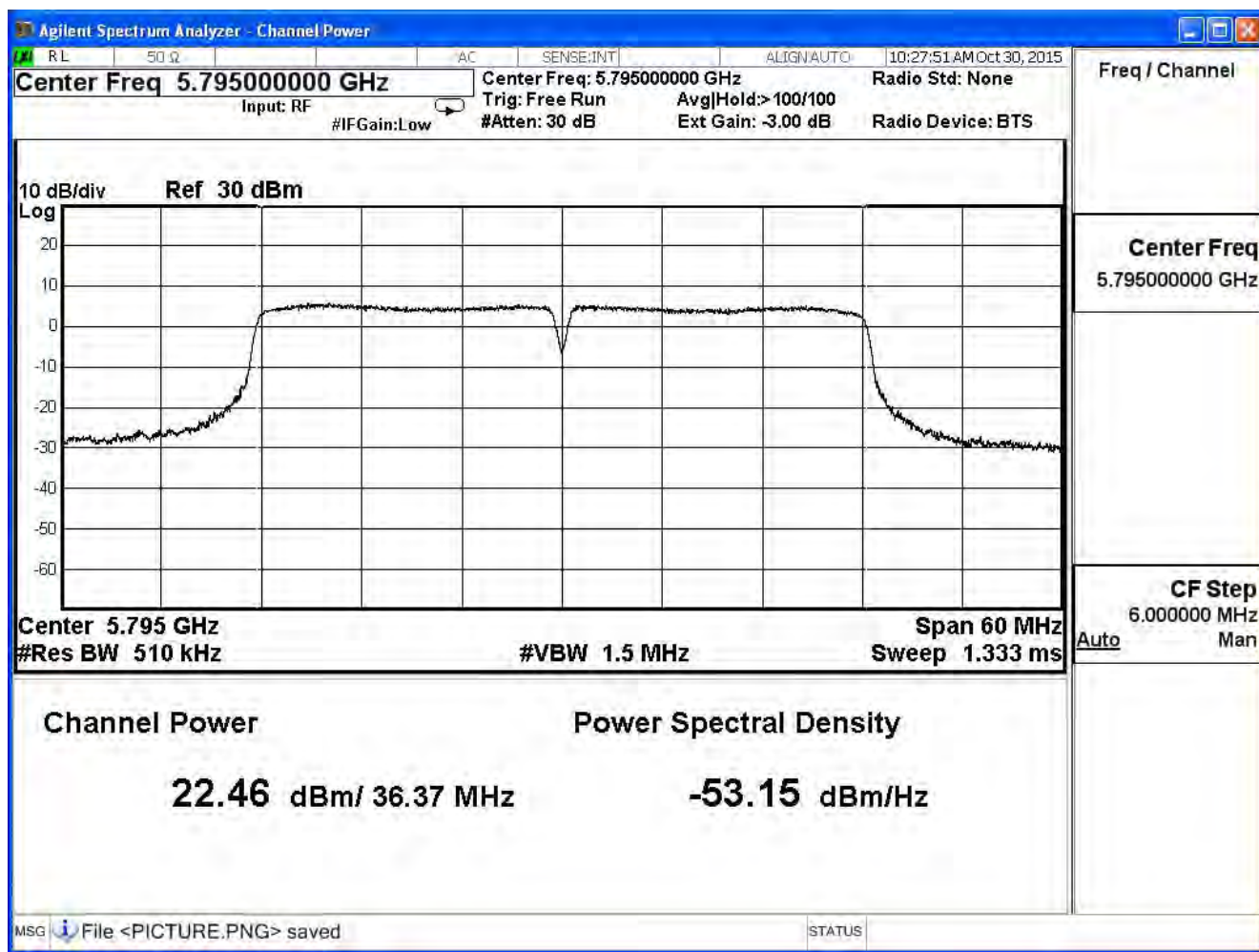
The worst emission of data rate is 13.5 Mbps.

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	20.86	--	--	--	--	--	--	--	28.40dBm
159	5795	22.46	22.35	22.15	21.95	21.75	21.51	21.25	21.13	28.40dBm

Channel 151



Channel 159



Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit Beamforming Mode AD890326		
Date of Test	2015/09/14	Test Site	SR7

IEEE802.11n 40MHz(ANT 0+1+2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	25.39	≤ 28.40	Pass
159	5795	27.09	≤ 28.40	Pass

Directional Antenna: $10\log(\text{Ant N}) + \text{Max Gain} = 3 + 4.6 = 7.60\text{dBi}$

Peak Transmit Output Limit: $30\text{dBm} - (7.60\text{dBi} - 6\text{dB}) = 28.40\text{ dBm}$

The worst emission of data rate is 13.5Mbps.

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	25.39	--	--	--	--	--	--	--	28.40dBm
159	5795	27.09	26.96	26.80	26.60	26.44	26.28	26.04	25.89	28.40dBm

Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit_Beamforming Mode_AD890326		
Date of Test	2015/09/14	Test Site	SR7

IEEE802.11ac 80MHz (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	20.85	≤ 28.40	Pass

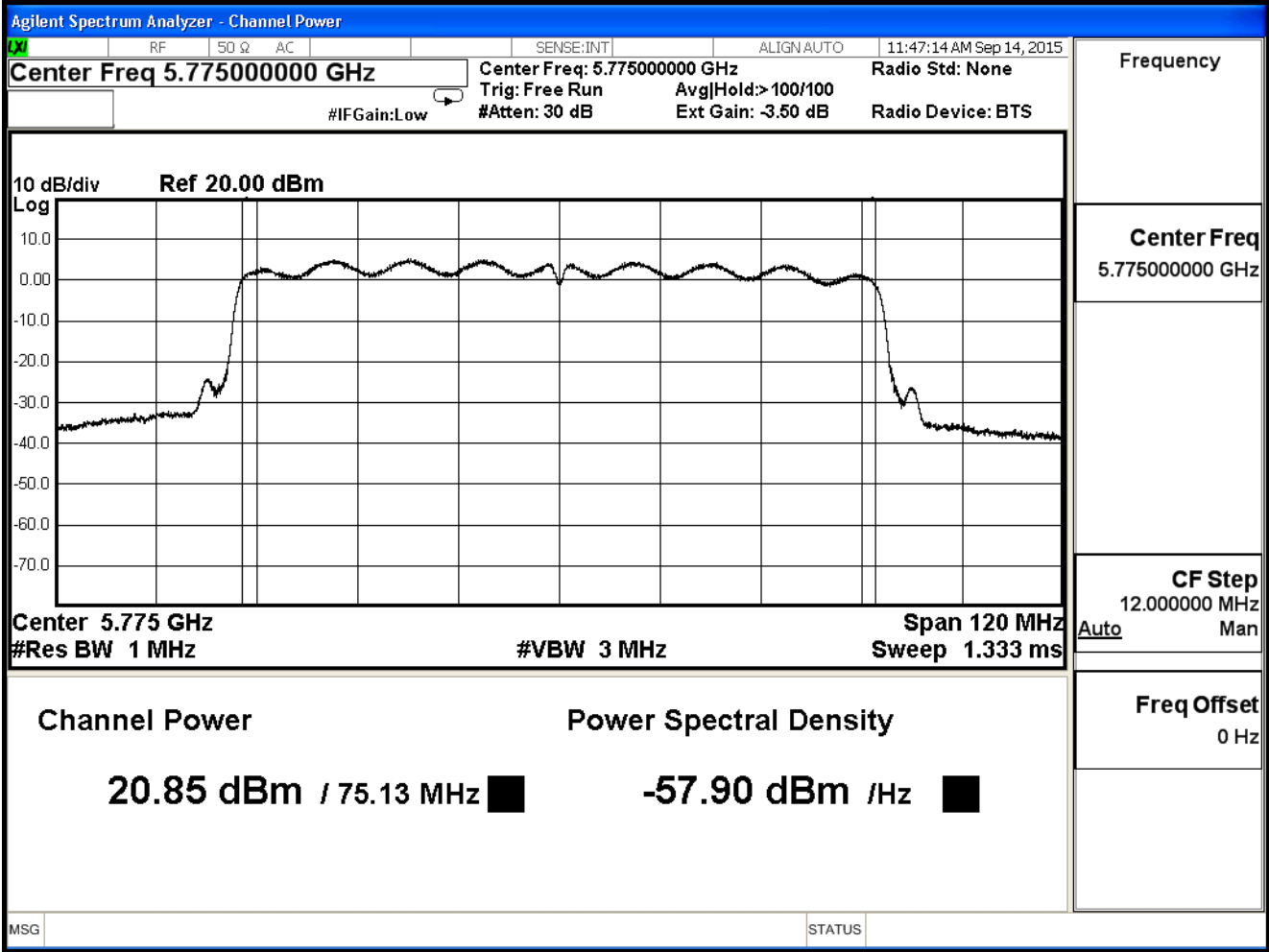
Directional Antenna: $10\log(\text{Ant N}) + \text{Max Gain} = 3 + 4.6 = 7.60\text{dBi}$

Peak Transmit Output Limit: $30\text{dBm} - (7.60\text{dBi} - 6\text{dB}) = 28.40\text{ dBm}$

The worst emission of data rate is 29.3 Mbps.

Peak Power Output (dBm)											
MCS Index		0	1	2	3	4	5	6	7	8	9
Channel No	Frequency (MHz)	Data Rate									
		29.3	58.5	87.8	117	175.5	234	263.3	292.5	351	390
155	5775	20.85	20.75	20.55	20.45	18.46	18.30	18.18	18.06	17.86	17.74

Channel 155



Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit Beamforming Mode AD890326		
Date of Test	2015/09/14	Test Site	SR7

IEEE802.11ac 80MHz (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	20.70	≤ 28.40	Pass

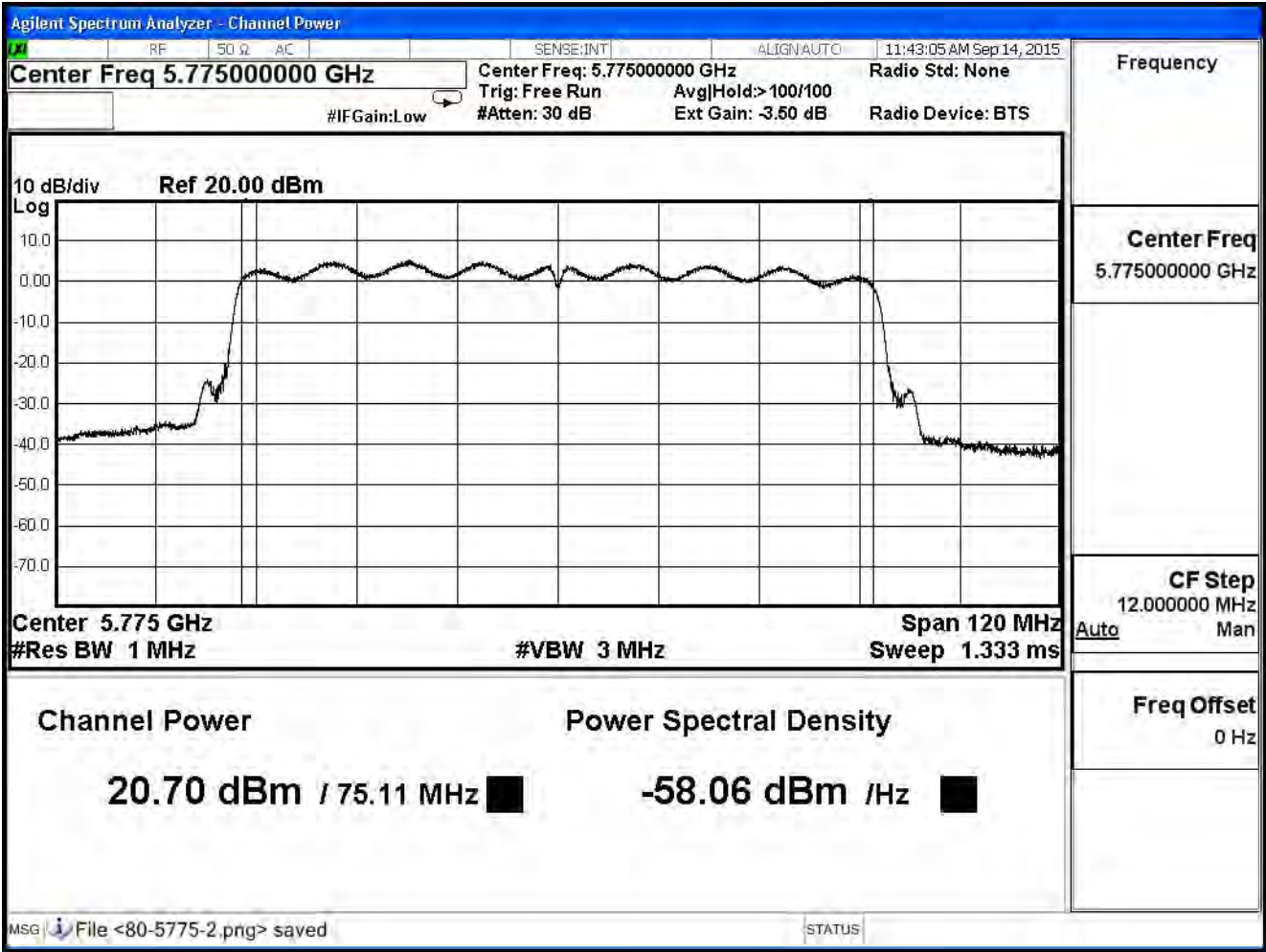
Directional Antenna: $10\log(\text{Ant N}) + \text{Max Gain} = 3 + 4.6 = 7.60\text{dBi}$

Peak Transmit Output Limit: $30\text{dBm} - (7.60\text{dBi} - 6\text{dB}) = 28.40\text{ dBm}$

The worst emission of data rate is 29.3 Mbps.

Peak Power Output (dBm)											
MCS Index		0	1	2	3	4	5	6	7	8	9
Channel No	Frequency (MHz)	Data Rate									
		29.3	58.5	87.8	117	175.5	234	263.3	292.5	351	390
155	5775	20.70	20.60	20.50	20.30	20.20	20.02	19.90	19.80	19.56	19.32

Channel 155



Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit_Beamforming Mode_AD890326		
Date of Test	2015/09/14	Test Site	SR7

IEEE802.11ac 80MHz (ANT 2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	20.46	≤ 28.40	Pass

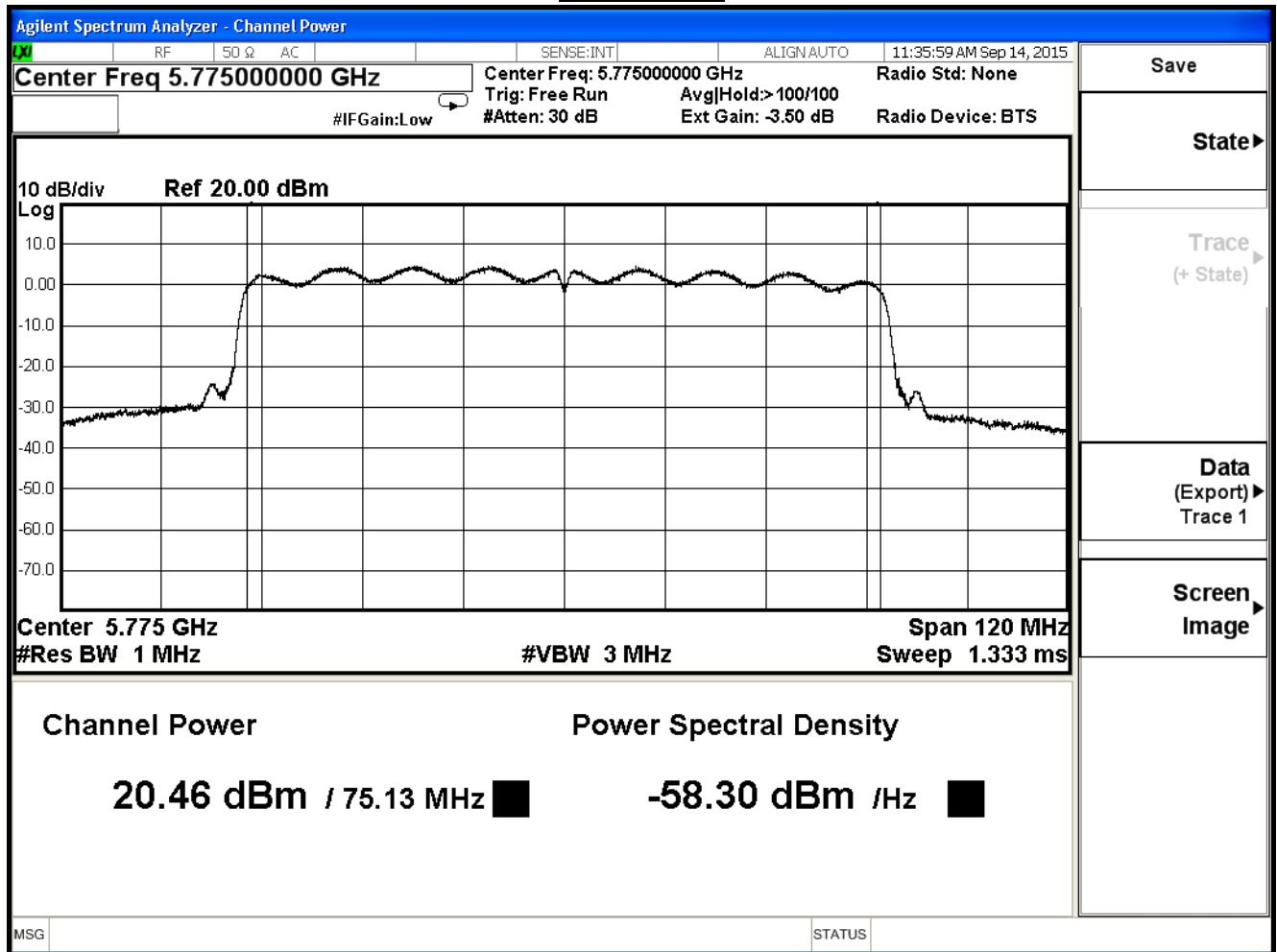
Directional Antenna: $10\log(\text{Ant N}) + \text{Max Gain} = 3 + 4.6 = 7.60\text{dBi}$

Peak Transmit Output Limit: $30\text{dBm} - (7.60\text{dBi} - 6\text{dB}) = 28.40\text{ dBm}$

The worst emission of data rate is 29.3 Mbps.

Peak Power Output (dBm)											
MCS Index		0	1	2	3	4	5	6	7	8	9
Channel No	Frequency (MHz)	Data Rate									
		29.3	58.5	87.8	117	175.5	234	263.3	292.5	351	390
155	5775	20.46	20.36	18.55	18.50	18.42	18.30	18.25	18.20	18.11	17.78

Channel 155



Product	Dual-band Wireless Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit_Beamforming Mode_AD890326		
Date of Test	2015/09/14	Test Site	SR7

IEEE802.11ac 80MHz (ANT 0+1+2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	25.44	≤ 28.40	Pass

Directional Antenna: $10\log(\text{Ant N}) + \text{Max Gain} = 3 + 4.6 = 7.60\text{dBi}$

Peak Transmit Output Limit: $30\text{dBm} - (7.60\text{dBi} - 6\text{dB}) = 28.40\text{ dBm}$

The worst emission of data rate is 29.3 Mbps.

Peak Power Output (dBm)											
MCS Index		0	1	2	3	4	5	6	7	8	9
Channel No	Frequency (MHz)	Data Rate									
		29.3	58.5	87.8	117	175.5	234	263.3	292.5	351	390
155	5775	25.44	25.34	24.73	24.61	23.88	23.72	23.62	23.53	23.35	23.12

4. Radiated Emission

4.1. Test Equipment

The following test equipments are used during the test:

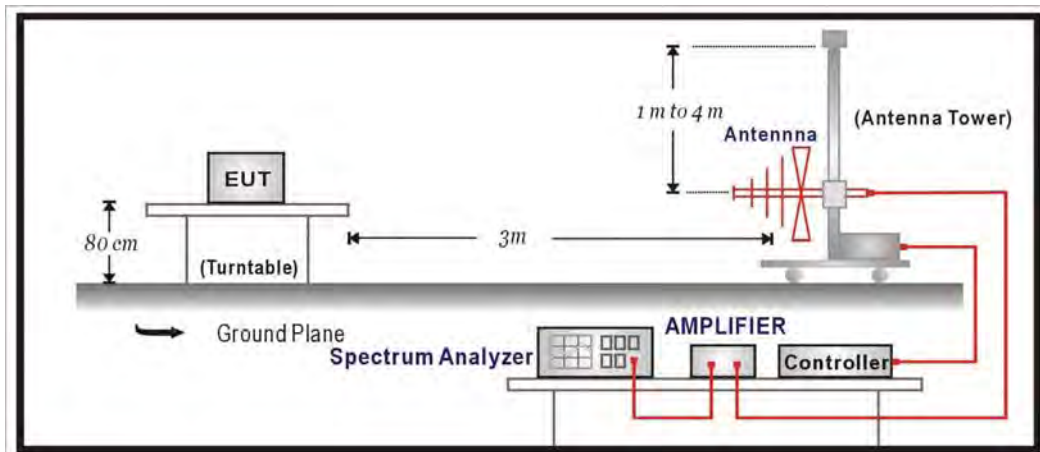
Radiated Emission / CB1

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	2016/01/26
Pre-Amplifier	EMCI	EMC0031835	980233	2016/01/18
Pre-Amplifier	QuieTek	AP-025C	CHM-0706049	2016/01/18
Spectrum Analyzer	Agilent	E4440A	MY46187335	2016/01/07
k Type Cable	Huber+Suhner	SF 102	25623/2	2016/01/26
Horn Antenna	Schwarzbeck	BBHA 9170	203	2016/09/07
Signal & Spectrum Analyzer	R&S	FSV40	101049	2015/10/30

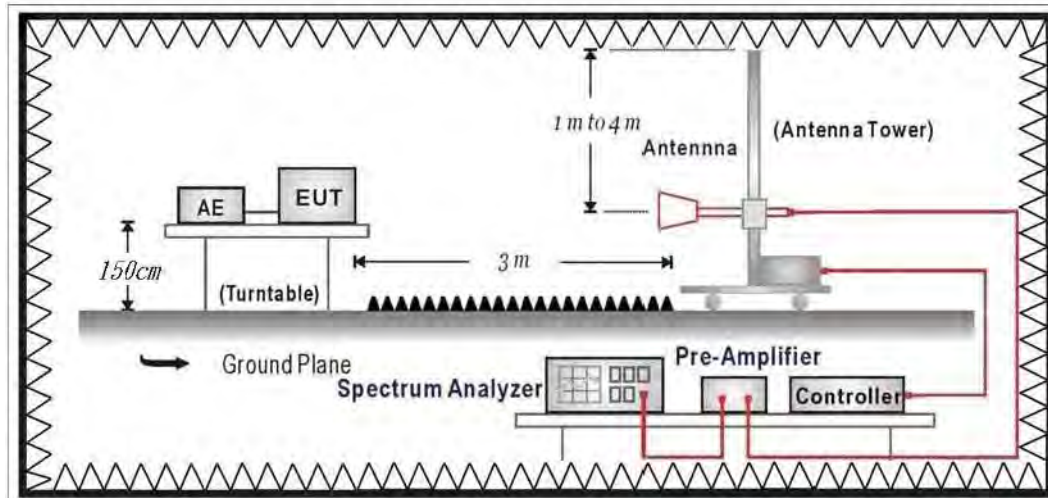
Note: All equipments that need to calibrate are with calibration period of 1 year.

4.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

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

Remarks: E field strength (dBuV/m) = 20 log E field strength (uV/m)

4.4. Test Procedure

The EUT was setup according to ANSI C63.10:2013 and tested according to DTS test procedure of KDB558074 v03r02 for compliance to FCC 47CFR 15.247 requirements. The EUT and its simulators are placed on a turn table which is 1.5 meter above ground (under 1GHz) or 1.5 meter above ground (above 1GHz). The turn table can rotate 360 degrees to determine the position of the maximum emission level.

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.

On any frequency or frequencies below or equal to 1000 MHz, the limits shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limits shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit. The bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

4.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2014

4.6. Uncertainty

The measurement uncertainty

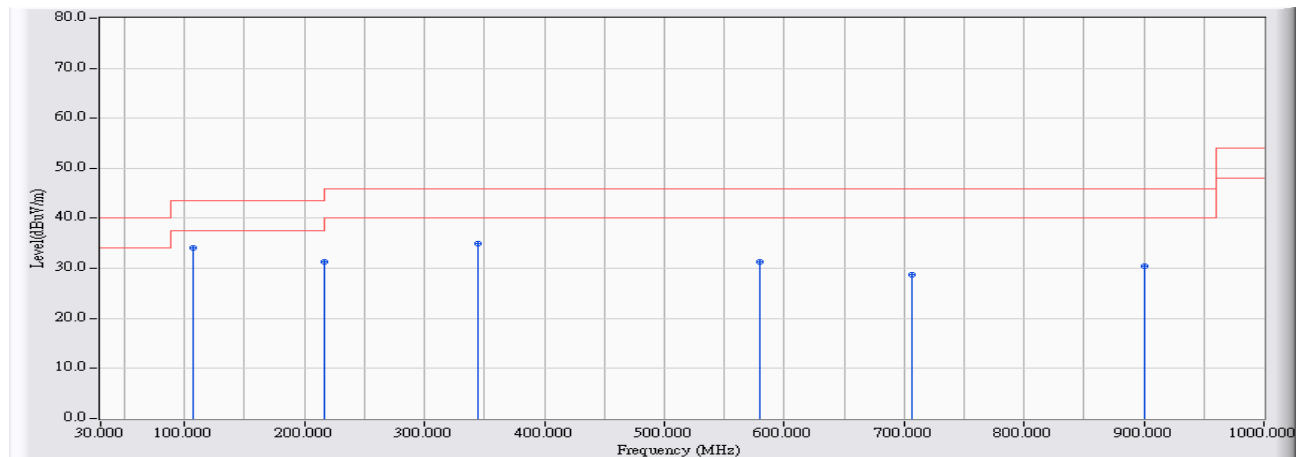
30MHz~1GHz as $\pm 3.43\text{dB}$

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

4.7. Test Result

30MHz-1GHz Spurious

Site : CB1	Time : 2015/05/16 - 02:30
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 Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11b_2437MHz

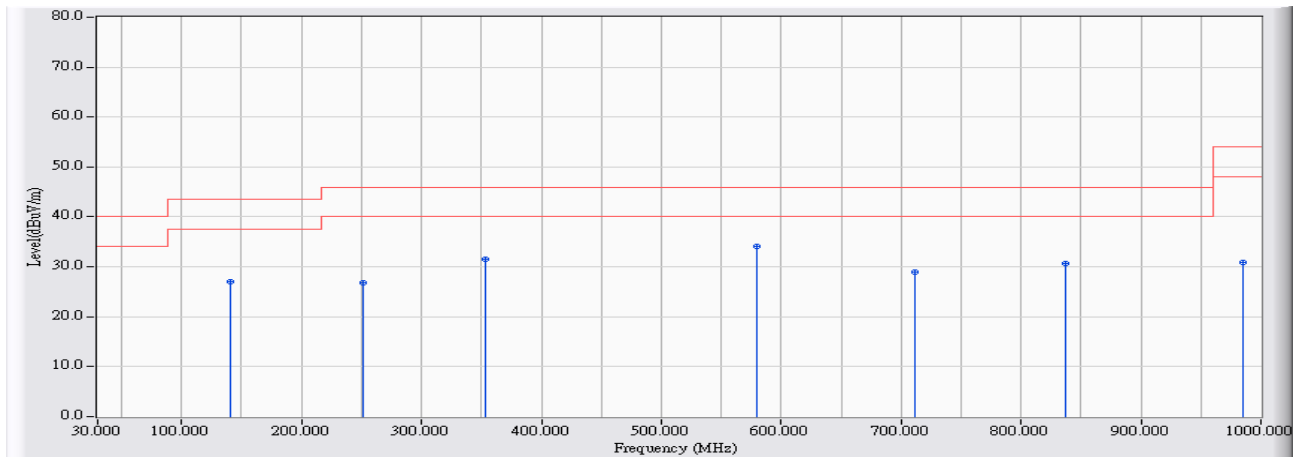


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	106.592	10.165	23.851	34.015	-9.485	43.500	QUASIPeAK
2		216.632	9.402	21.844	31.246	-14.754	46.000	QUASIPeAK
3		345.092	13.836	21.143	34.978	-11.022	46.000	QUASIPeAK
4		579.715	17.422	13.880	31.302	-14.698	46.000	QUASIPeAK
5		706.237	18.069	10.711	28.780	-17.220	46.000	QUASIPeAK
6		900.625	19.478	10.962	30.439	-15.561	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2015/05/16 - 03:42
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 Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11b_2437MHz

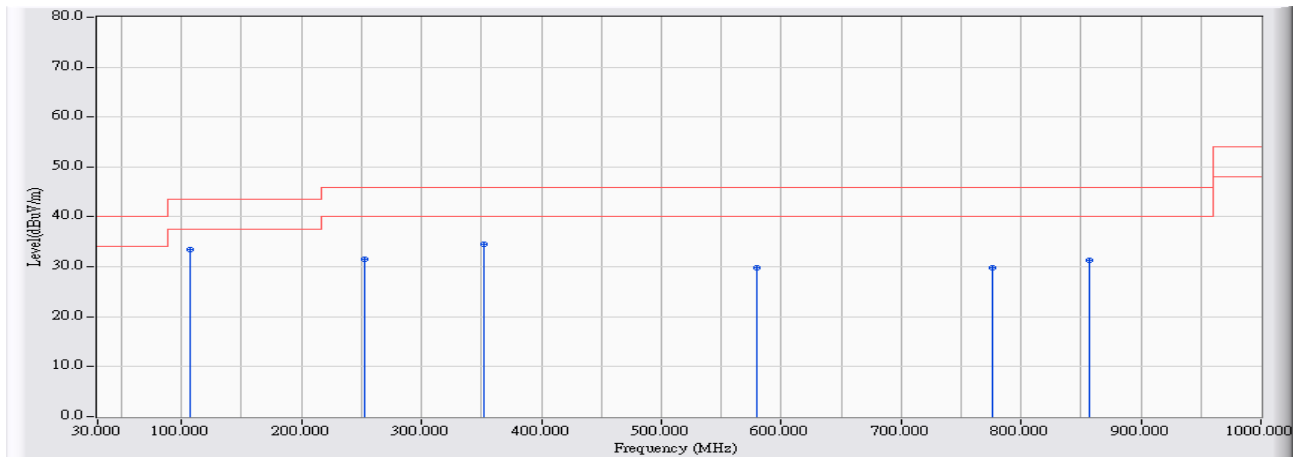


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	141.009	10.082	16.932	27.014	-16.486	43.500	QUASIPeAK
2	251.534	11.910	15.000	26.910	-19.090	46.000	QUASIPeAK
3	353.333	14.034	17.395	31.428	-14.572	46.000	QUASIPeAK
4	* 579.715	17.422	16.771	34.193	-11.807	46.000	QUASIPeAK
5	711.569	18.134	10.868	29.002	-16.998	46.000	QUASIPeAK
6	837.121	19.310	11.466	30.776	-15.224	46.000	QUASIPeAK
7	984.973	20.166	10.742	30.908	-23.092	54.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2015/05/16 - 02:33
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 Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11g_2437MHz

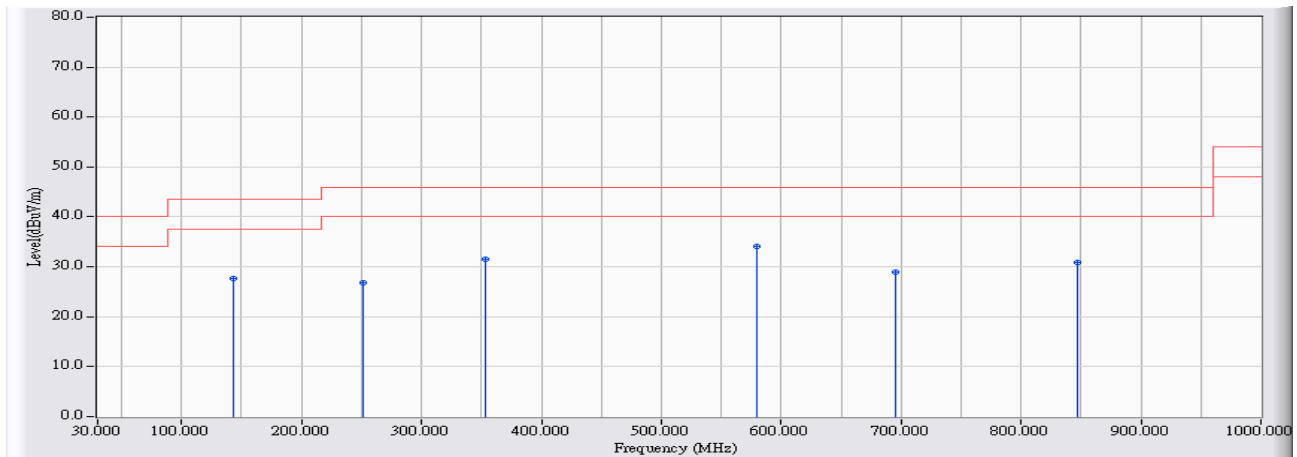


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	106.592	10.165	23.309	33.473	-10.027	43.500	QUASIPeAK
2		252.019	11.919	19.681	31.600	-14.400	46.000	QUASIPeAK
3		352.364	14.010	20.495	34.505	-11.495	46.000	QUASIPeAK
4		579.715	17.422	12.374	29.796	-16.204	46.000	QUASIPeAK
5		776.527	18.927	10.969	29.896	-16.104	46.000	QUASIPeAK
6		857.481	19.363	11.849	31.211	-14.789	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2015/05/16 - 03:45
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11g_2437MHz

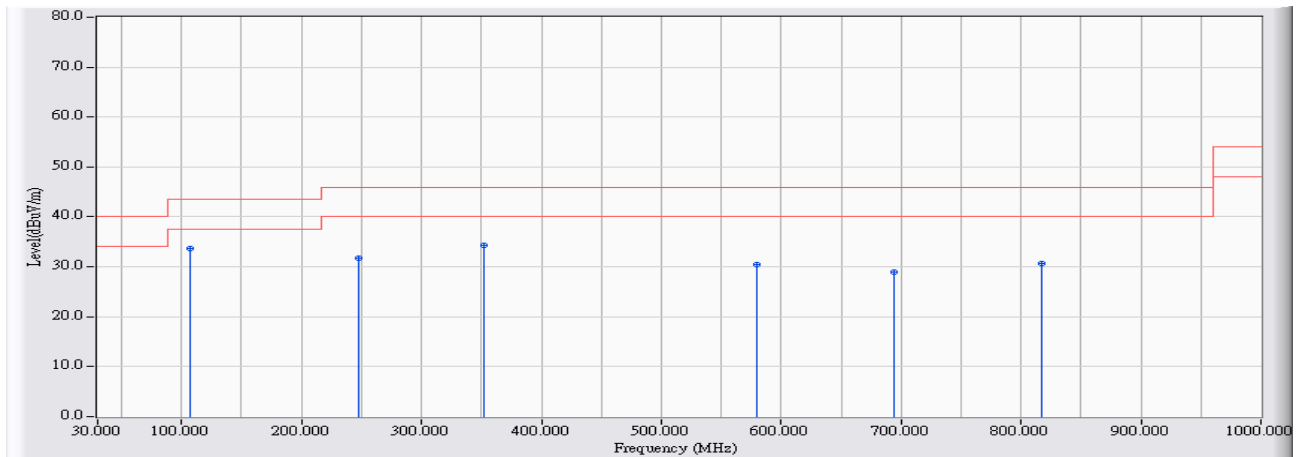


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	142.949	9.985	17.740	27.725	-15.775	43.500	QUASIPeAK
2	251.534	11.910	15.000	26.910	-19.090	46.000	QUASIPeAK
3	353.333	14.034	17.395	31.428	-14.572	46.000	QUASIPeAK
4	* 579.715	17.422	16.771	34.193	-11.807	46.000	QUASIPeAK
5	695.572	17.969	11.001	28.971	-17.029	46.000	QUASIPeAK
6	846.817	19.335	11.617	30.952	-15.048	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2015/05/16 - 02:36
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 Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11n(20M)_2437MHz

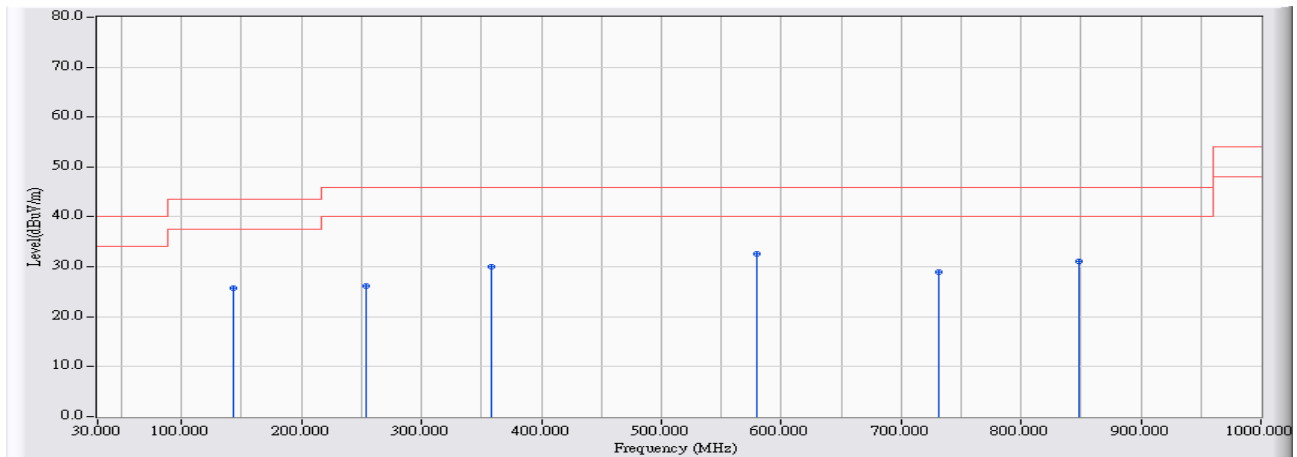


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	106.592	10.165	23.484	33.648	-9.852	43.500	QUASIPeAK
2		248.141	11.746	19.926	31.671	-14.329	46.000	QUASIPeAK
3		351.879	13.999	20.240	34.238	-11.762	46.000	QUASIPeAK
4		579.715	17.422	13.090	30.512	-15.488	46.000	QUASIPeAK
5		694.603	17.965	10.883	28.848	-17.152	46.000	QUASIPeAK
6		817.731	19.260	11.492	30.752	-15.248	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2015/05/16 - 03:47
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 Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11n(20M)_2437MHz

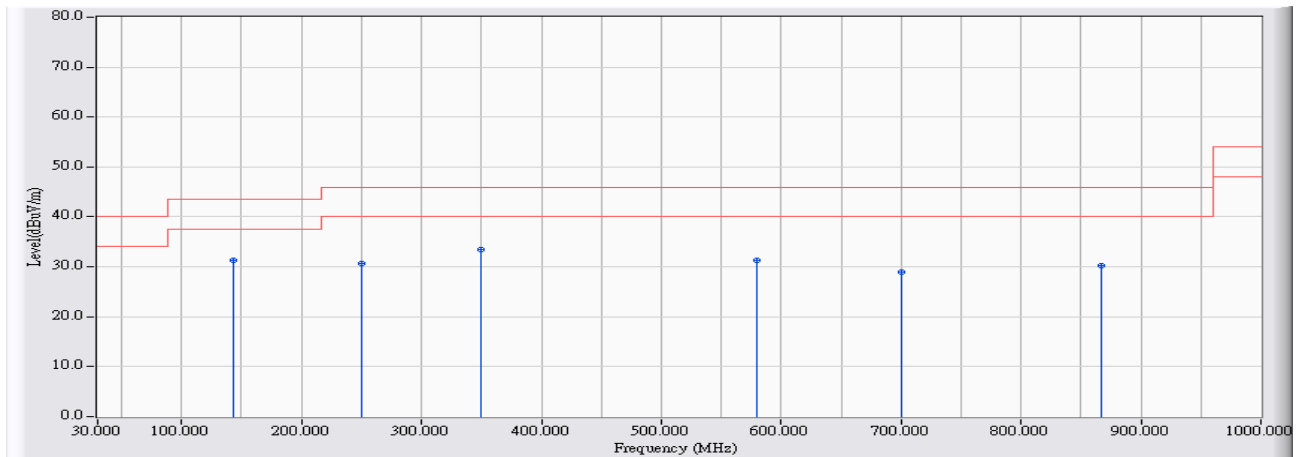


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	142.949	9.985	15.725	28.400	-17.790	43.500	QUASIPeAK
2	253.473	11.944	14.250	26.194	-19.806	46.000	QUASIPeAK
3	358.666	14.162	15.817	29.978	-16.022	46.000	QUASIPeAK
4	* 579.715	17.422	15.198	32.620	-13.380	46.000	QUASIPeAK
5	731.929	18.383	10.480	28.862	-17.138	46.000	QUASIPeAK
6	848.756	19.340	11.838	31.178	-14.822	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2015/05/16 - 02:39
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 Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11n(40M)_2437MHz

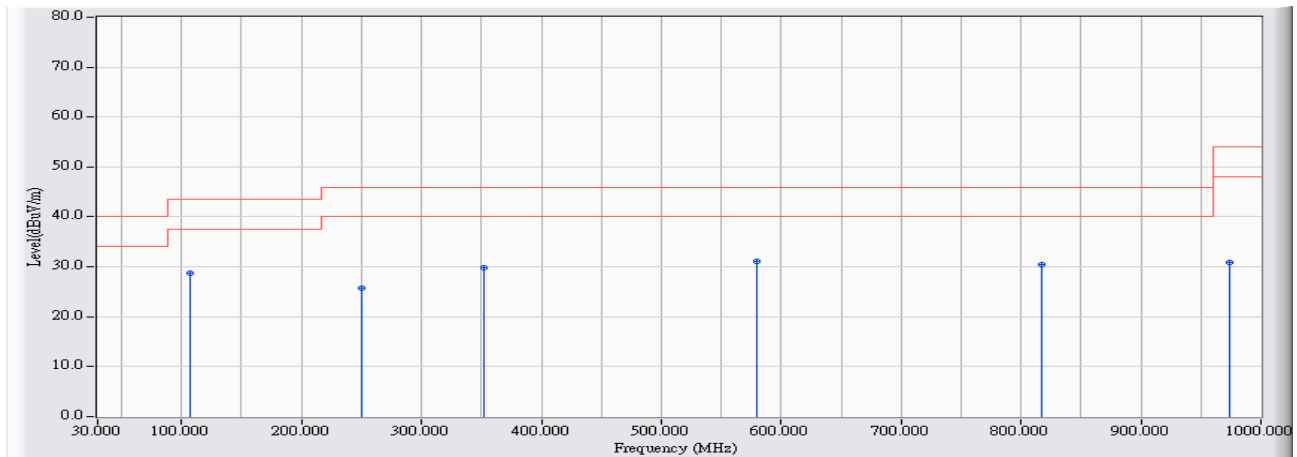


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	142.949	9.985	21.353	31.338	-12.162	43.500	QUASIPeAK
2		250.080	11.880	18.720	30.600	-15.400	46.000	QUASIPeAK
3		349.940	13.952	19.485	33.437	-12.563	46.000	QUASIPeAK
4		579.715	17.422	13.871	31.293	-14.707	46.000	QUASIPeAK
5		699.935	17.993	10.974	28.967	-17.033	46.000	QUASIPeAK
6		866.692	19.386	10.900	30.286	-15.714	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2015/05/16 - 03:48
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11n(40M)_2437MHz

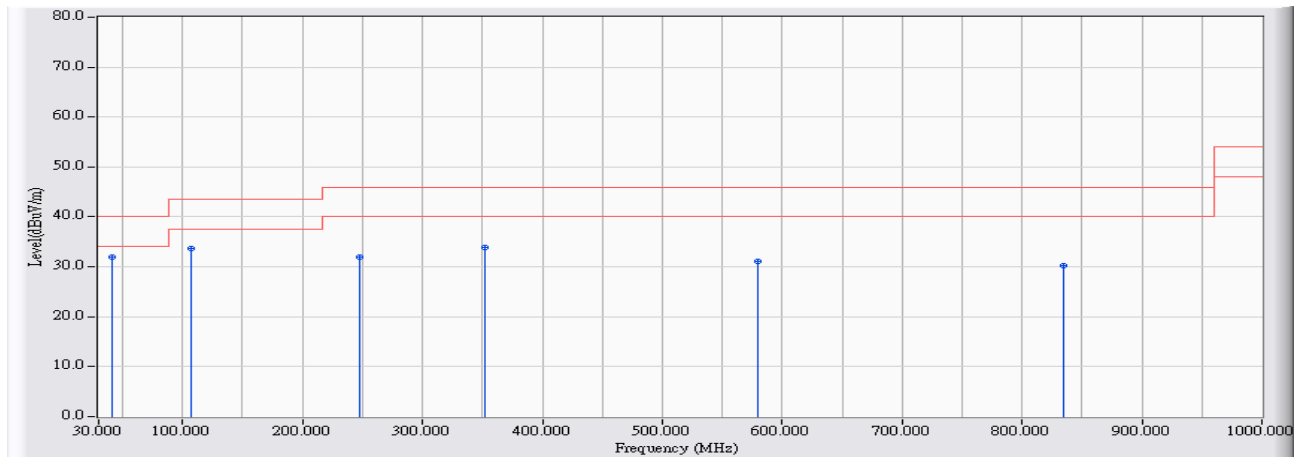


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	106.592	10.165	18.571	28.735	-14.765	43.500	QUASIPeAK
2		249.595	11.849	13.940	25.789	-20.211	46.000	QUASIPeAK
3		352.364	14.010	15.905	29.915	-16.085	46.000	QUASIPeAK
4		579.715	17.422	13.581	31.003	-14.997	46.000	QUASIPeAK
5		817.246	19.258	11.251	30.509	-15.491	46.000	QUASIPeAK
6		973.338	20.071	10.834	30.905	-23.095	54.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2015/05/16 - 02:28
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 Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11a_5785MHz

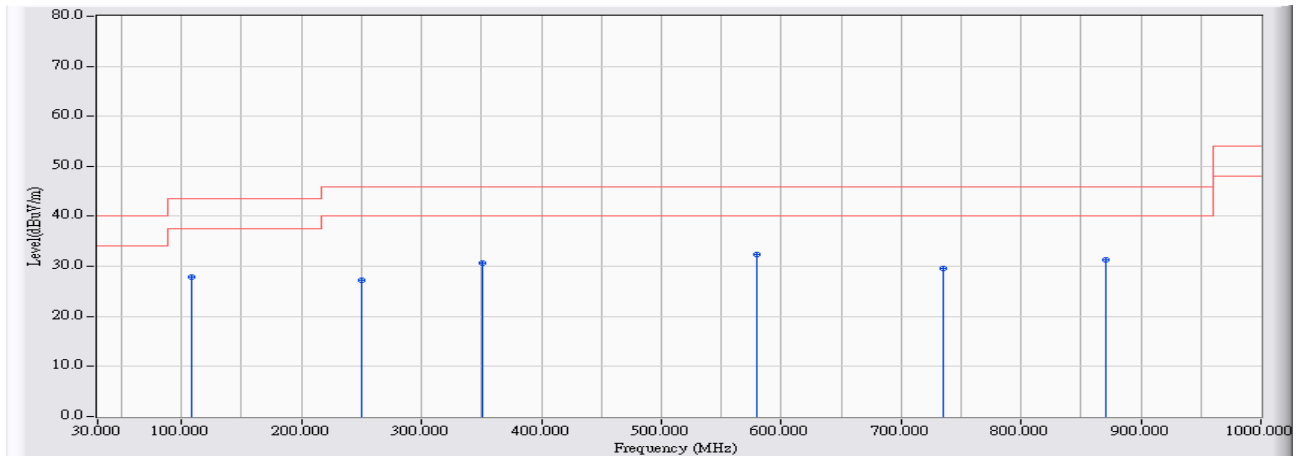


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	41.634	9.692	22.368	32.060	-7.940	40.000	QUASIPeAK
2		106.592	10.165	23.536	33.700	-9.800	43.500	QUASIPeAK
3		248.141	11.746	20.164	31.909	-14.091	46.000	QUASIPeAK
4		352.364	14.010	19.939	33.949	-12.051	46.000	QUASIPeAK
5		579.715	17.422	13.751	31.173	-14.827	46.000	QUASIPeAK
6		835.182	19.305	10.920	30.225	-15.775	46.000	QUASIPeAK

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.

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 Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11a_5785MHz

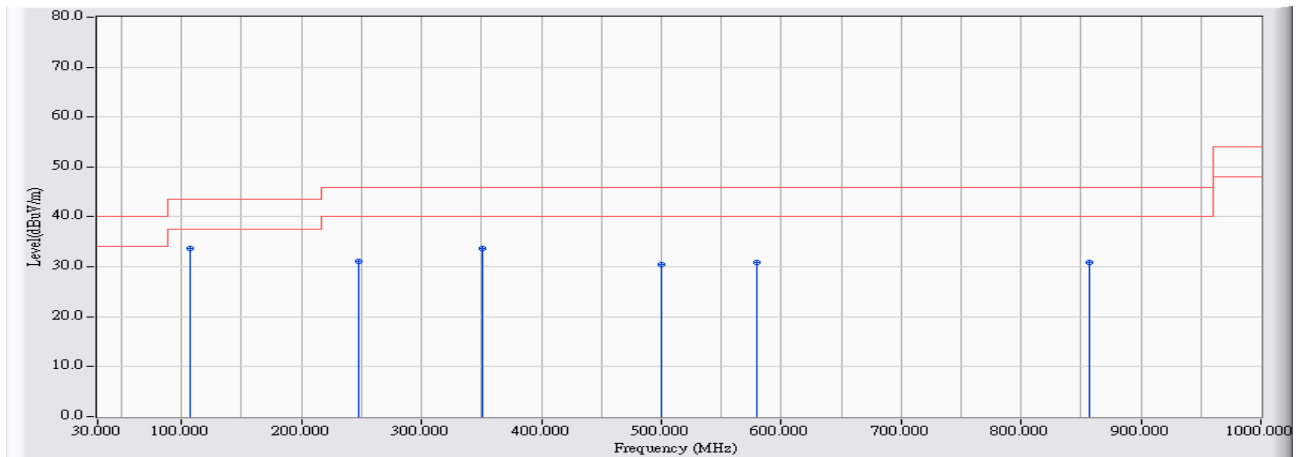


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		108.531	10.259	17.710	27.969	-15.531	43.500	QUASIPeAK
2		250.565	11.893	15.296	27.189	-18.811	46.000	QUASIPeAK
3		350.425	13.964	16.767	30.731	-15.269	46.000	QUASIPeAK
4	*	579.715	17.422	14.892	32.314	-13.686	46.000	QUASIPeAK
5		735.322	18.424	11.159	29.583	-16.417	46.000	QUASIPeAK
6		870.085	19.395	11.822	31.217	-14.783	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2015/05/16 - 02:24
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 Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11n(20M)_5785MHz

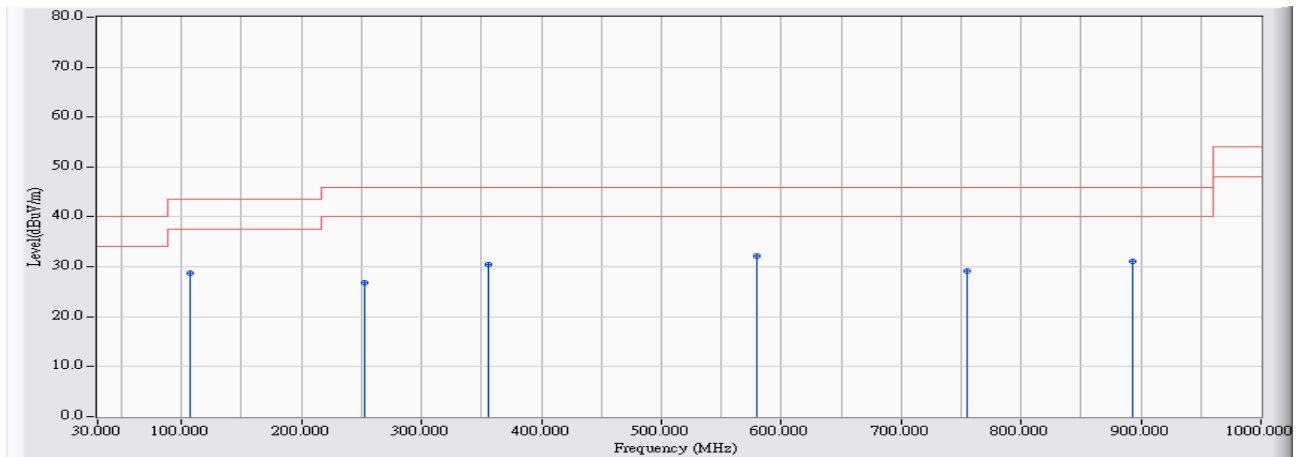


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	106.592	10.165	23.550	33.714	-9.786	43.500	QUASIPeAK
2		248.141	11.746	19.288	31.033	-14.967	46.000	QUASIPeAK
3		350.425	13.964	19.773	33.737	-12.263	46.000	QUASIPeAK
4		499.730	17.175	13.350	30.525	-15.475	46.000	QUASIPeAK
5		579.715	17.422	13.466	30.888	-15.112	46.000	QUASIPeAK
6		857.481	19.363	11.417	30.779	-15.221	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2015/05/16 - 04:03
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 Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11n(20M)_5785MHz

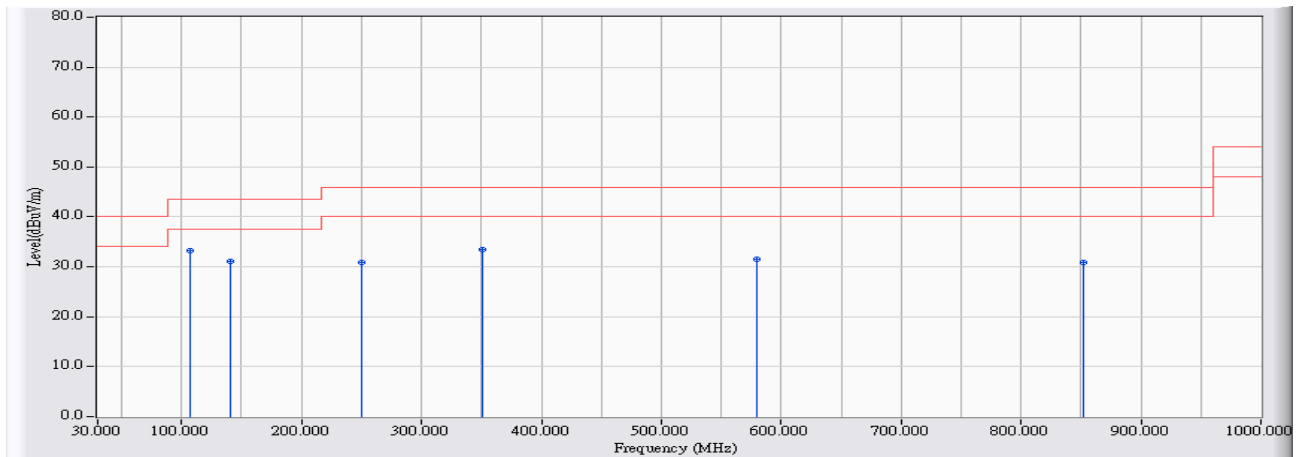


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	106.592	10.165	18.581	28.745	-14.755	43.500	QUASIPeAK
2	252.989	11.935	14.900	26.835	-19.165	46.000	QUASIPeAK
3	355.272	14.080	16.473	30.553	-15.447	46.000	QUASIPeAK
4	* 579.715	17.422	14.773	32.195	-13.805	46.000	QUASIPeAK
5	754.713	18.661	10.607	29.268	-16.732	46.000	QUASIPeAK
6	892.869	19.454	11.592	31.046	-14.954	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2015/05/16 - 02:21
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 Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11n(40M)_5795MHz

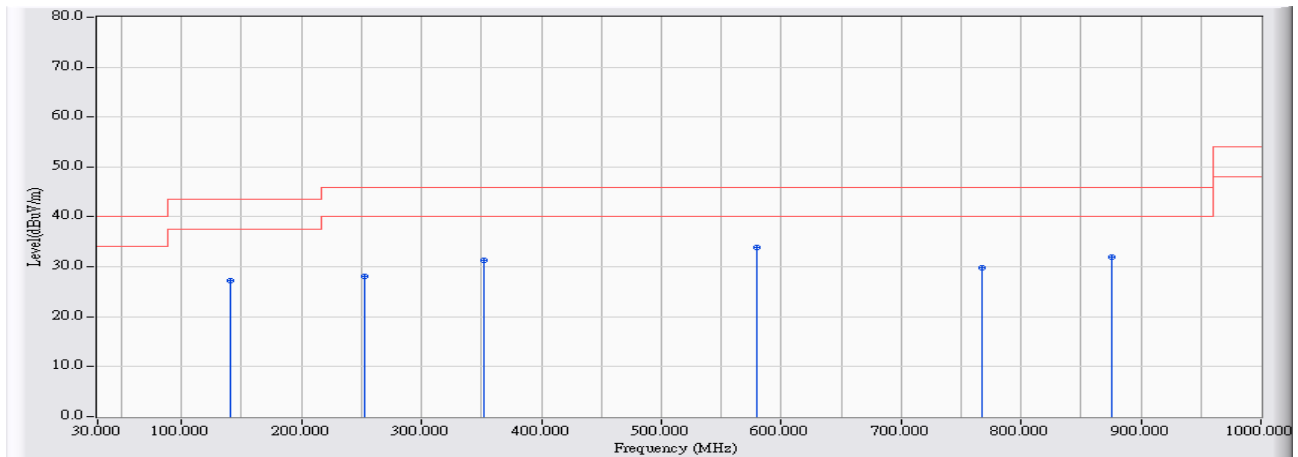


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	106.592	10.165	23.176	33.340	-10.160	43.500	QUASIPeAK
2		141.009	10.082	20.963	31.045	-12.455	43.500	QUASIPeAK
3		249.595	11.849	19.135	30.984	-15.016	46.000	QUASIPeAK
4		350.910	13.975	19.530	33.505	-12.495	46.000	QUASIPeAK
5		579.715	17.422	14.204	31.626	-14.374	46.000	QUASIPeAK
6		852.149	19.349	11.548	30.897	-15.103	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2015/05/16 - 04:05
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 Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11n(40M)_5795MHz

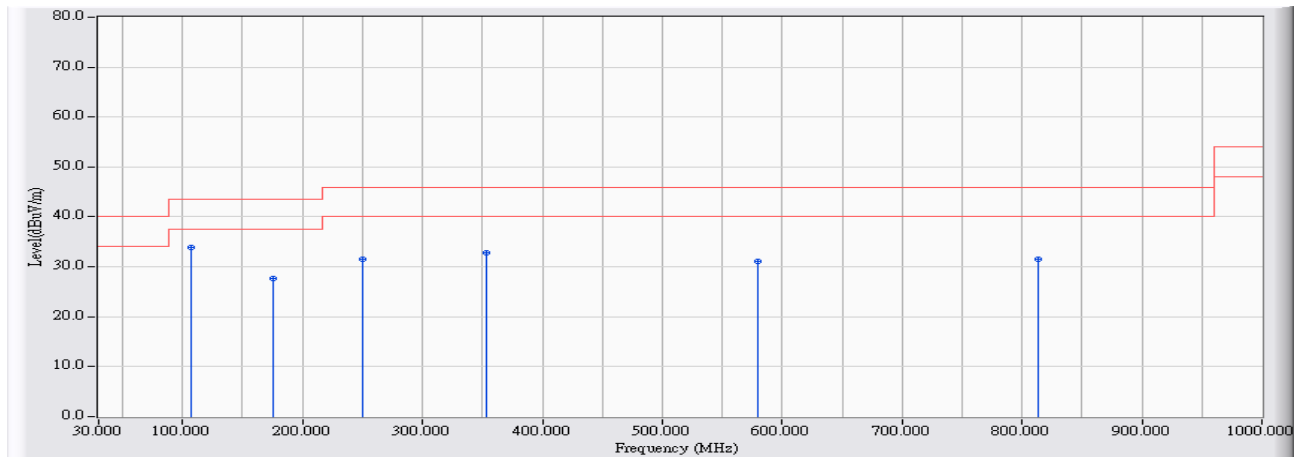


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	141.009	10.082	17.172	27.254	-16.246	43.500	QUASIPeAK
2	252.019	11.919	16.269	28.188	-17.812	46.000	QUASIPeAK
3	352.364	14.010	17.356	31.366	-14.634	46.000	QUASIPeAK
4	* 579.715	17.422	16.548	33.970	-12.030	46.000	QUASIPeAK
5	767.801	18.820	11.067	29.888	-16.112	46.000	QUASIPeAK
6	875.902	19.410	12.504	31.914	-14.086	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2015/05/16 - 02:15
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 Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11ac(80M)_5775MHz

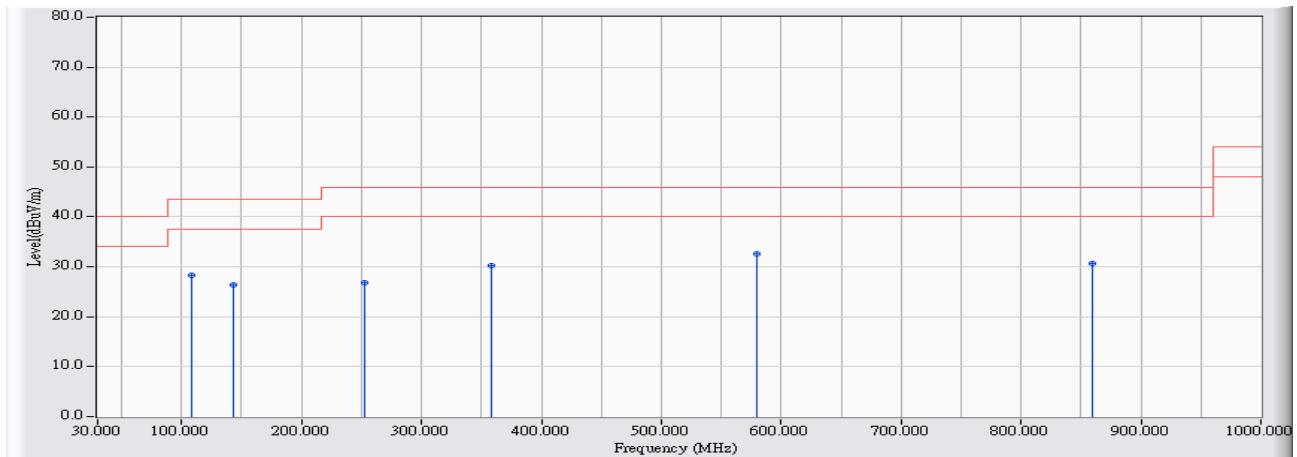


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	106.592	10.165	23.697	33.861	-9.639	43.500	QUASIPeAK
2		174.943	8.482	19.257	27.739	-15.761	43.500	QUASIPeAK
3		249.595	11.849	19.715	31.564	-14.436	46.000	QUASIPeAK
4		352.849	14.022	18.717	32.739	-13.261	46.000	QUASIPeAK
5		579.715	17.422	13.781	31.203	-14.797	46.000	QUASIPeAK
6		813.853	19.250	12.173	31.423	-14.577	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2015/05/16 - 04:10
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 Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11ac(80M)_5775MHz

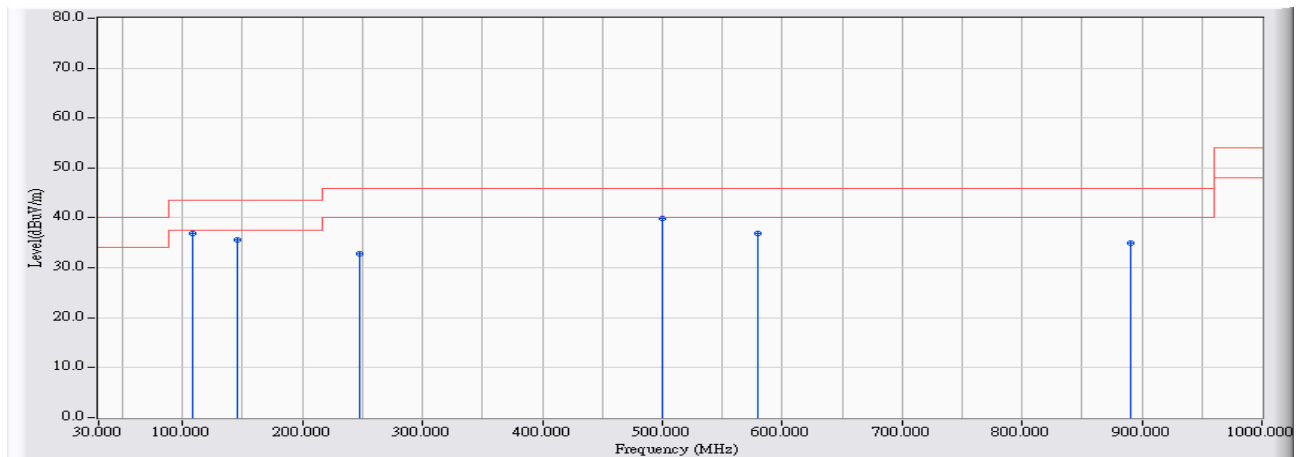


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		108.531	10.259	17.953	28.212	-15.288	43.500	QUASIPeAK
2		142.949	9.985	16.364	26.349	-17.151	43.500	QUASIPeAK
3		252.504	11.927	14.985	26.912	-19.088	46.000	QUASIPeAK
4		357.696	14.138	16.051	30.189	-15.811	46.000	QUASIPeAK
5	*	579.715	17.422	15.236	32.658	-13.342	46.000	QUASIPeAK
6		859.420	19.367	11.254	30.621	-15.379	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2015/09/24 - 17:03
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - HORIZONTAL	Power : AC120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 3: Transmit_ADP-33AW 802.11b 2437MHz

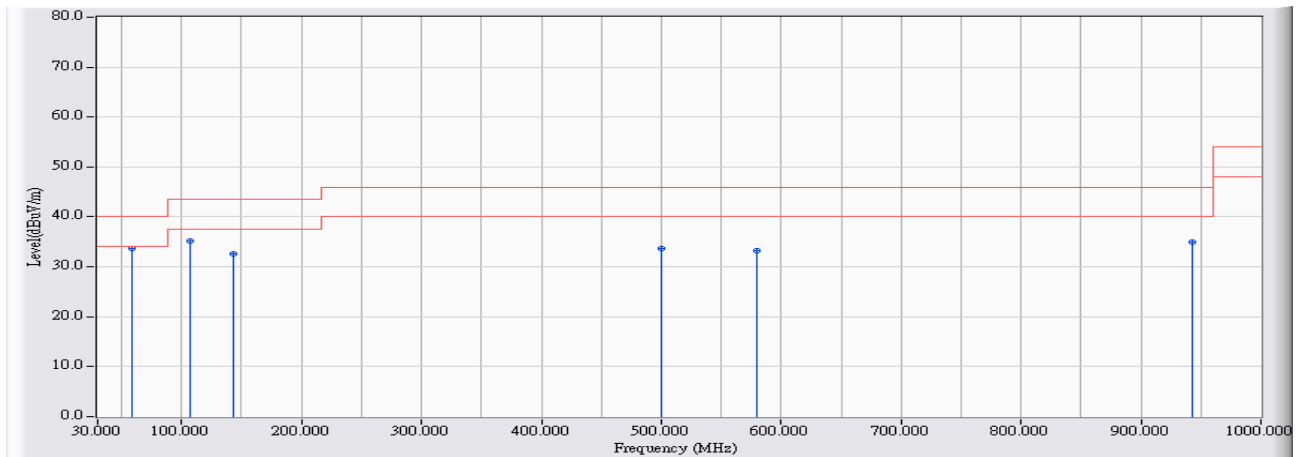


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		108.756	12.565	24.228	36.794	-6.706	43.500	QUASIPeAK
2		145.127	16.943	18.568	35.510	-7.990	43.500	QUASIPeAK
3		247.549	12.251	20.565	32.816	-13.184	46.000	QUASIPeAK
4	*	499.918	17.754	22.185	39.938	-6.062	46.000	QUASIPeAK
5		579.935	19.312	17.529	36.841	-9.159	46.000	QUASIPeAK
6		891.177	23.352	11.660	35.013	-10.987	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2015/09/24 - 17:30
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - VERTICAL	Power : AC120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 3: Transmit_ADP-33AW 802.11b 2437MHz

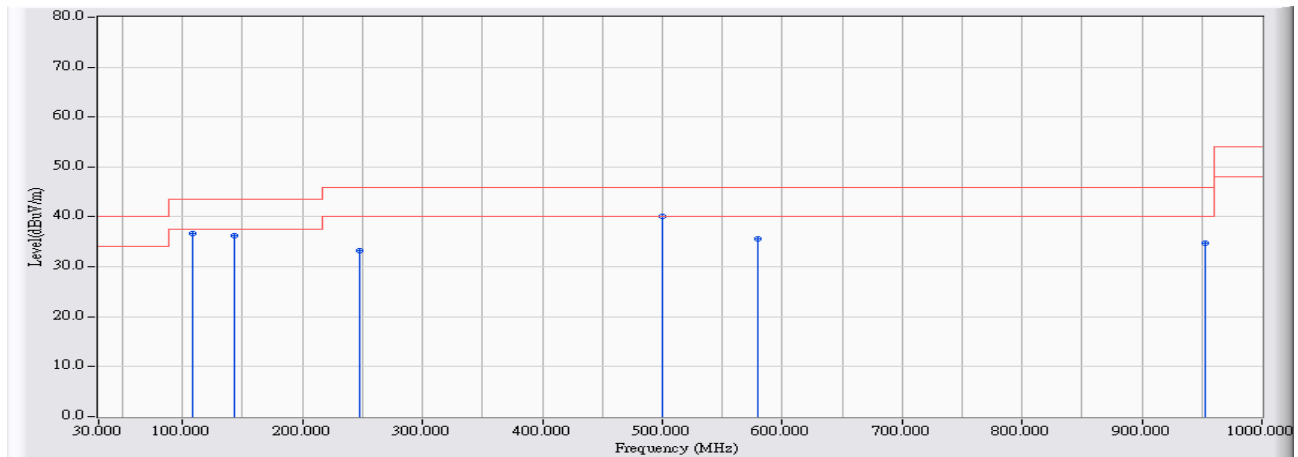


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	58.612	11.223	22.351	33.574	-6.426	40.000	QUASIPeAK
2		106.719	12.558	22.609	35.167	-8.333	43.500	QUASIPeAK
3		143.285	16.626	16.065	32.691	-10.809	43.500	QUASIPeAK
4		499.918	17.754	15.887	33.640	-12.360	46.000	QUASIPeAK
5		579.935	19.312	13.921	33.233	-12.767	46.000	QUASIPeAK
6		942.194	23.856	11.182	35.038	-10.962	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2015/09/24 - 17:02
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - HORIZONTAL	Power : AC120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 3: Transmit_ADP-33AW 802.11g 2437MHz

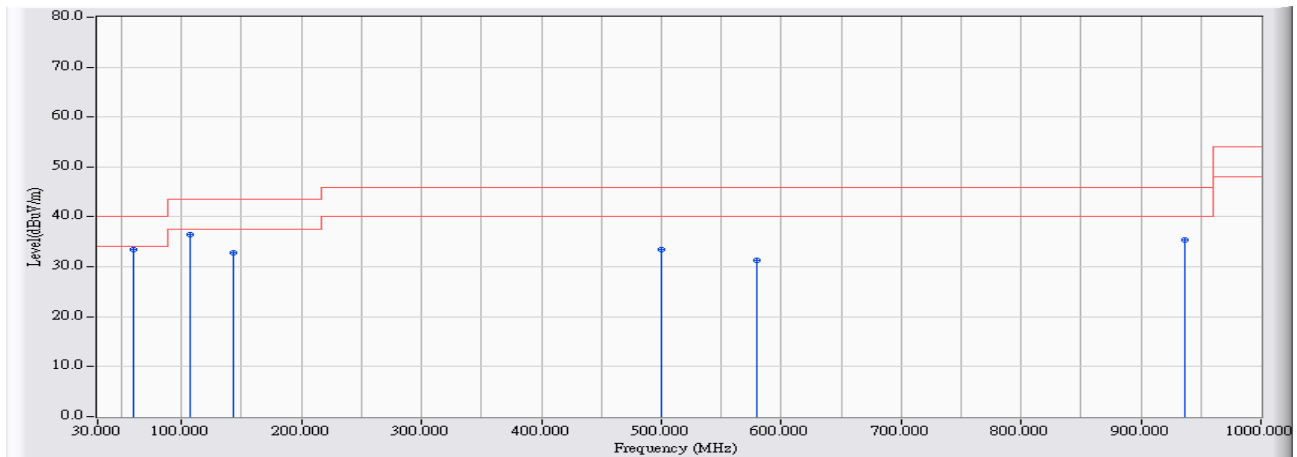


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	108.756	12.565	24.157	36.723	-6.777	43.500	QUASIPeAK
2	143.285	16.626	19.671	36.297	-7.203	43.500	QUASIPeAK
3	247.161	12.239	21.080	33.320	-12.680	46.000	QUASIPeAK
4	* 499.918	17.754	22.290	40.043	-5.957	46.000	QUASIPeAK
5	579.935	19.312	16.215	35.527	-10.473	46.000	QUASIPeAK
6	952.281	23.953	10.820	34.772	-11.228	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2015/09/24 - 16:59
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - VERTICAL	Power : AC120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 3: Transmit_ADP-33AW 802.11g 2437MHz

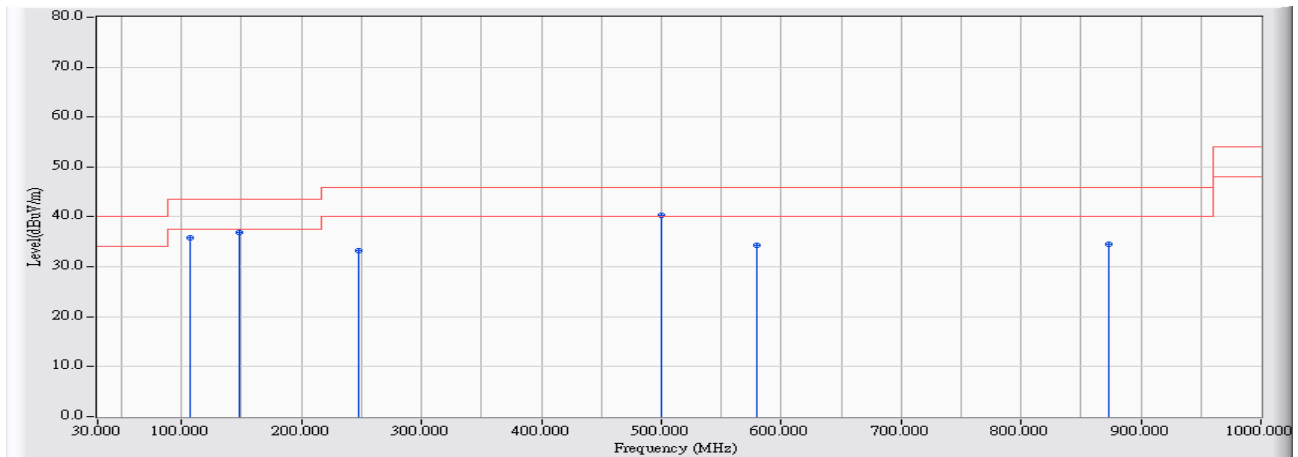


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	60.164	11.097	22.351	33.448	-6.552	40.000	QUASIPeAK
2		106.622	12.558	23.843	36.401	-7.099	43.500	QUASIPeAK
3		143.188	16.609	16.287	32.896	-10.604	43.500	QUASIPeAK
4		499.918	17.754	15.764	33.517	-12.483	46.000	QUASIPeAK
5		579.935	19.312	12.027	31.339	-14.661	46.000	QUASIPeAK
6		935.986	23.797	11.546	35.342	-10.658	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2015/09/24 - 16:56
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - HORIZONTAL	Power : AC120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 3: Transmit_ADP-33AW 802.11n(20M) 2437MHz

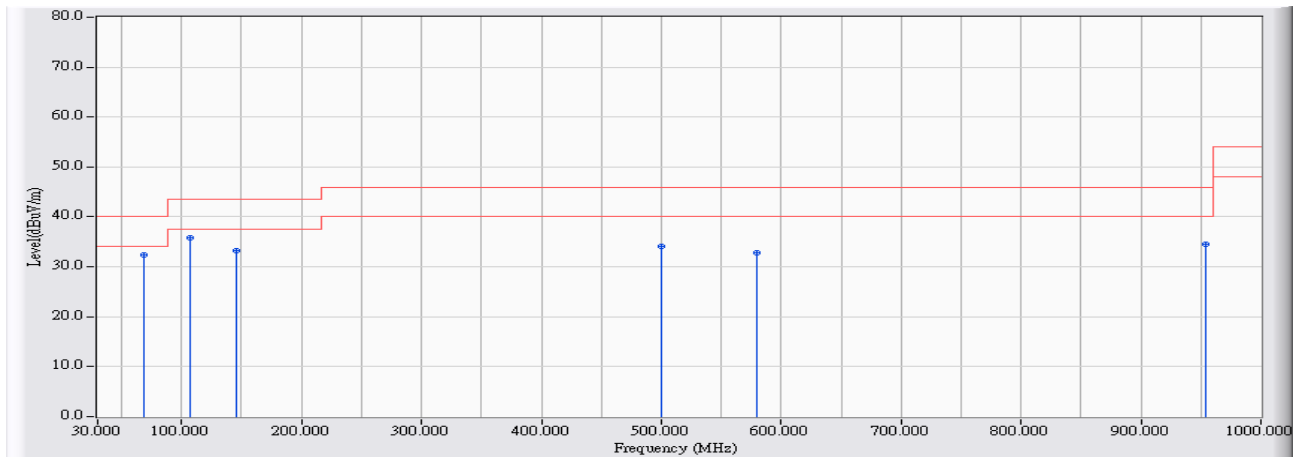


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	106.622	12.558	23.333	35.891	-7.609	43.500	QUASIPeAK
2	148.037	17.442	19.460	36.902	-6.598	43.500	QUASIPeAK
3	247.161	12.239	21.107	33.347	-12.653	46.000	QUASIPeAK
4	* 499.918	17.754	22.467	40.220	-5.780	46.000	QUASIPeAK
5	579.935	19.312	14.982	34.294	-11.706	46.000	QUASIPeAK
6	873.040	23.148	11.441	34.589	-11.411	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2015/09/24 - 16:57
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - VERTICAL	Power : AC120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 3: Transmit_ADP-33AW 802.11n(20M) 2437MHz

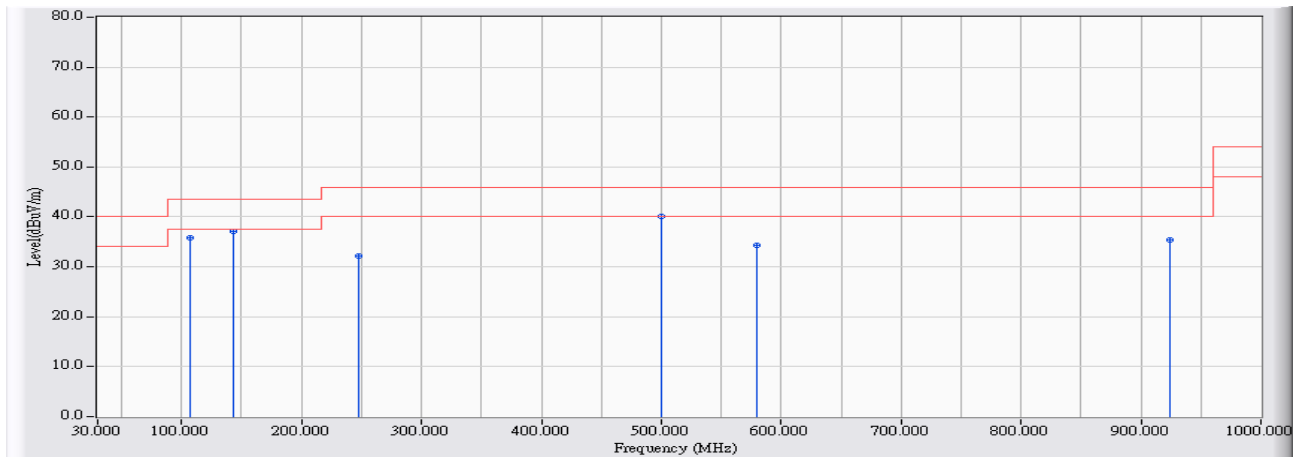


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	68.990	8.418	23.930	32.348	-7.652	40.000	QUASIPeAK
2	* 106.622	12.558	23.291	35.849	-7.651	43.500	QUASIPeAK
3	145.224	16.959	16.370	33.329	-10.171	43.500	QUASIPeAK
4	499.918	17.754	16.259	34.012	-11.988	46.000	QUASIPeAK
5	579.935	19.312	13.579	32.891	-13.109	46.000	QUASIPeAK
6	954.318	23.972	10.642	34.614	-11.386	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2015/09/24 - 16:53
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - HORIZONTAL	Power : AC120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 3: Transmit_ADP-33AW 802.11n(40M) 2437MHz

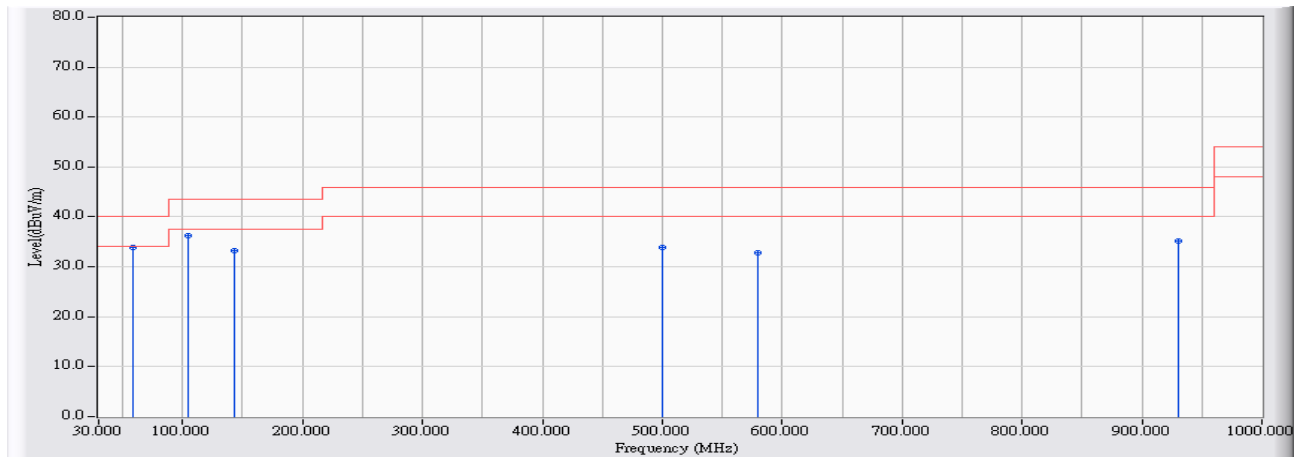


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	106.622	12.558	23.311	35.869	-7.631	43.500	QUASIPeAK
2	143.188	16.609	20.549	37.158	-6.342	43.500	QUASIPeAK
3	247.646	12.254	19.815	32.069	-13.931	46.000	QUASIPeAK
4	* 499.918	17.754	22.386	40.139	-5.861	46.000	QUASIPeAK
5	579.935	19.312	15.053	34.365	-11.635	46.000	QUASIPeAK
6	923.669	23.679	11.724	35.403	-10.597	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2015/09/24 - 16:51
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - VERTICAL	Power : AC120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 3: Transmit_ADP-33AW 802.11n(40M) 2437MHz

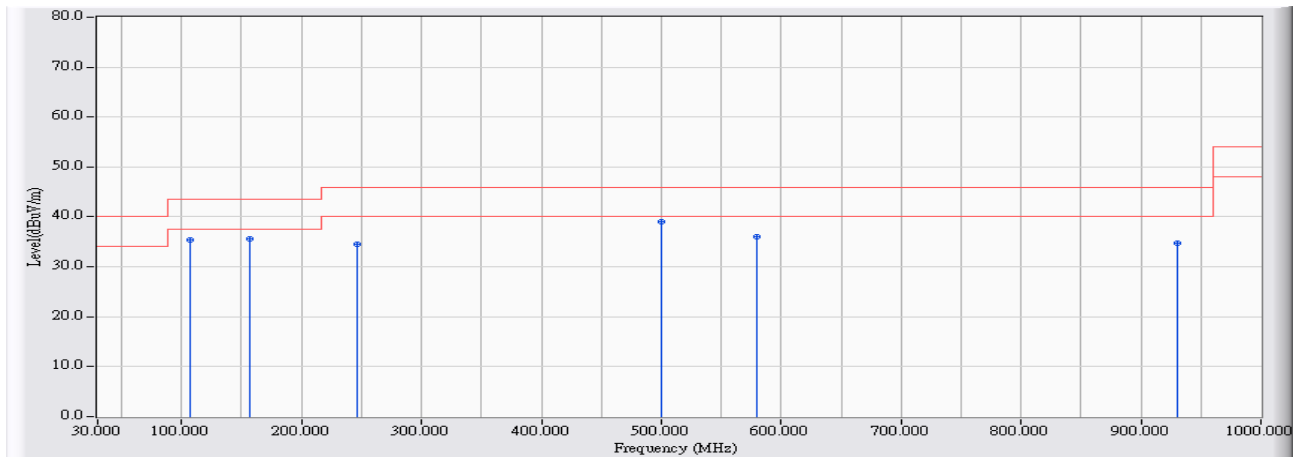


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	58.612	11.223	22.717	33.940	-6.060	40.000	QUASIPeAK
2		104.683	12.550	23.662	36.213	-7.287	43.500	QUASIPeAK
3		143.285	16.626	16.647	33.273	-10.227	43.500	QUASIPeAK
4		499.918	17.754	16.211	33.964	-12.036	46.000	QUASIPeAK
5		579.935	19.312	13.409	32.721	-13.279	46.000	QUASIPeAK
6		929.876	23.738	11.456	35.194	-10.806	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2015/09/24 - 15:55
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - HORIZONTAL	Power : AC120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 3: Transmit_ADP-33AW 802.11a 5785MHz

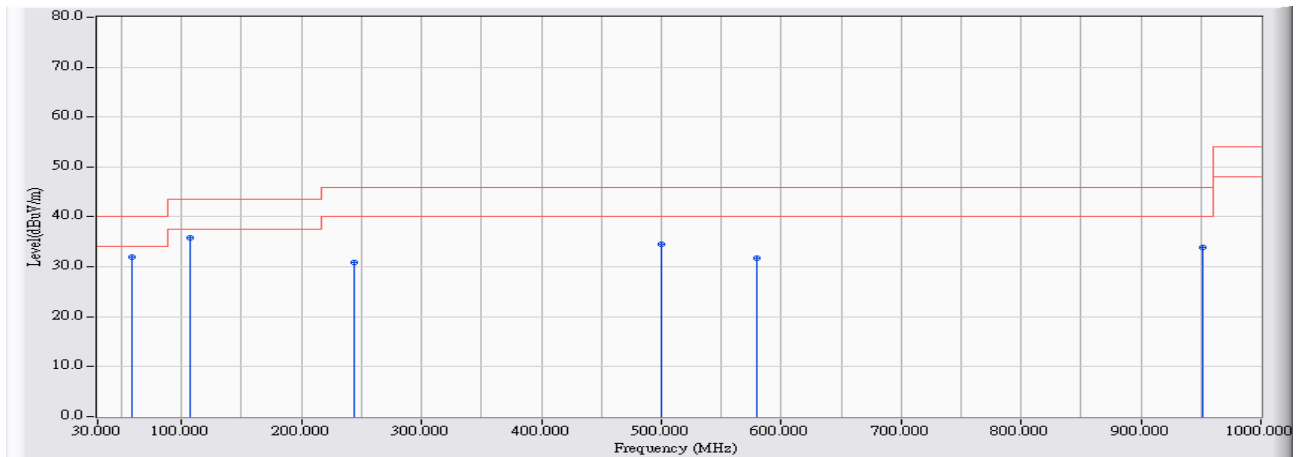


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	106.622	12.558	22.814	35.372	-8.128	43.500	QUASIPeAK
2	156.960	17.916	17.677	35.593	-7.907	43.500	QUASIPeAK
3	246.482	12.220	22.356	34.575	-11.425	46.000	QUASIPeAK
4	* 499.918	17.754	21.217	38.970	-7.030	46.000	QUASIPeAK
5	579.935	19.312	16.714	36.026	-9.974	46.000	QUASIPeAK
6	930.264	23.741	10.999	34.741	-11.259	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2015/09/24 - 15:53
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - VERTICAL	Power : AC120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 3: Transmit_ADP-33AW 802.11a 5785MHz

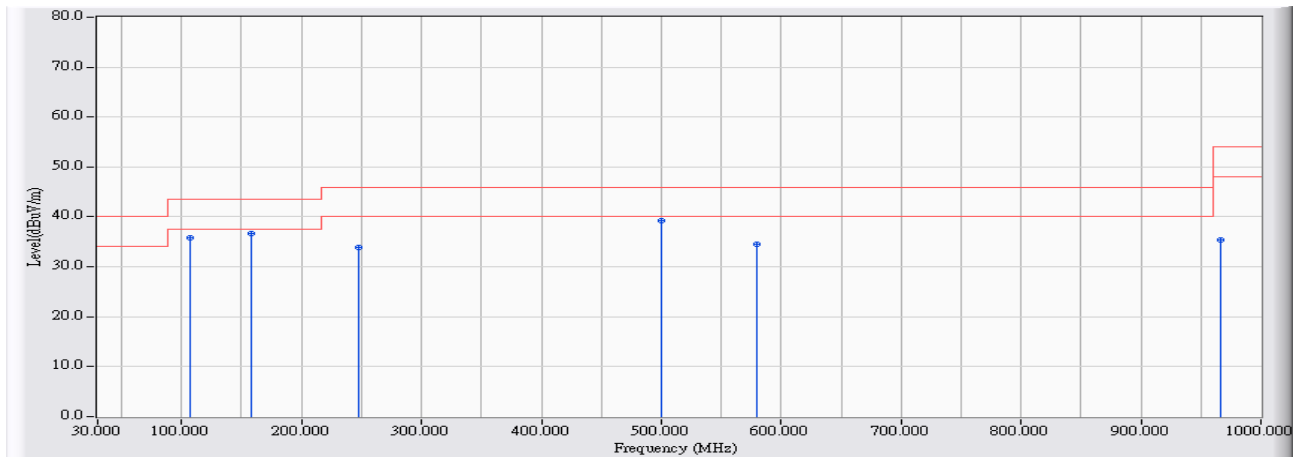


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	58.709	11.217	20.667	31.884	-8.116	40.000	QUASIPeAK
2	*	12.558	23.358	35.916	-7.584	43.500	QUASIPeAK
3	243.864	12.142	18.698	30.840	-15.160	46.000	QUASIPeAK
4	499.918	17.754	16.809	34.562	-11.438	46.000	QUASIPeAK
5	579.935	19.312	12.431	31.743	-14.257	46.000	QUASIPeAK
6	952.087	23.951	9.966	33.917	-12.083	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2015/09/24 - 15:50
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - HORIZONTAL	Power : AC120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 3: Transmit_ADP-33AW 802.11n(20M) 5785MHz

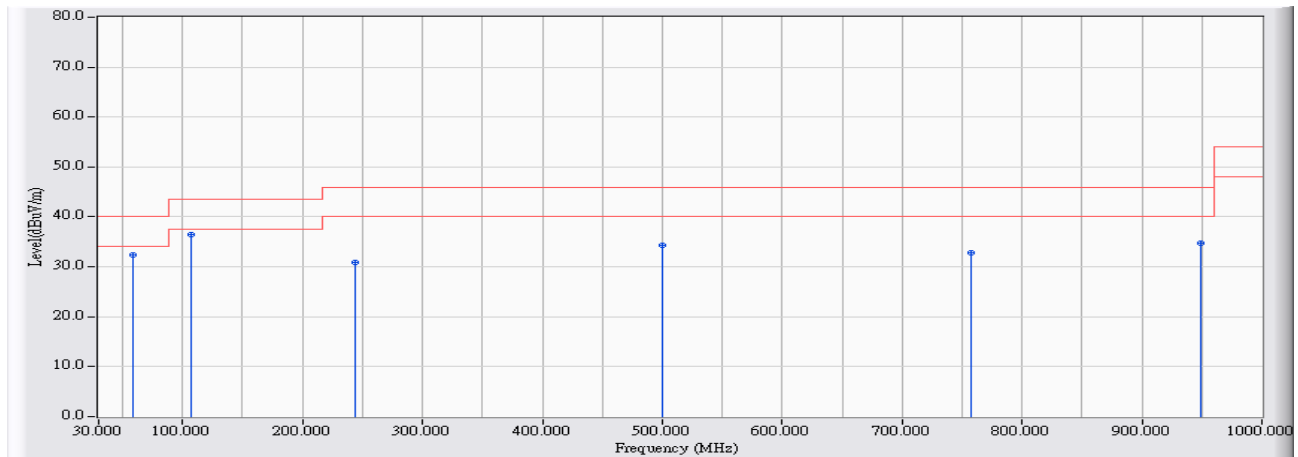


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	106.622	12.558	23.276	35.834	-7.666	43.500	QUASIPeAK
2	157.542	17.928	18.642	36.570	-6.930	43.500	QUASIPeAK
3	248.131	12.269	21.665	33.933	-12.067	46.000	QUASIPeAK
4	* 499.918	17.754	21.521	39.274	-6.726	46.000	QUASIPeAK
5	579.935	19.312	15.158	34.470	-11.530	46.000	QUASIPeAK
6	966.732	24.091	11.334	35.425	-18.575	54.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2015/09/24 - 15:52
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - VERTICAL	Power : AC120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 3: Transmit_ADP-33AW 802.11n(20M) 5785MHz

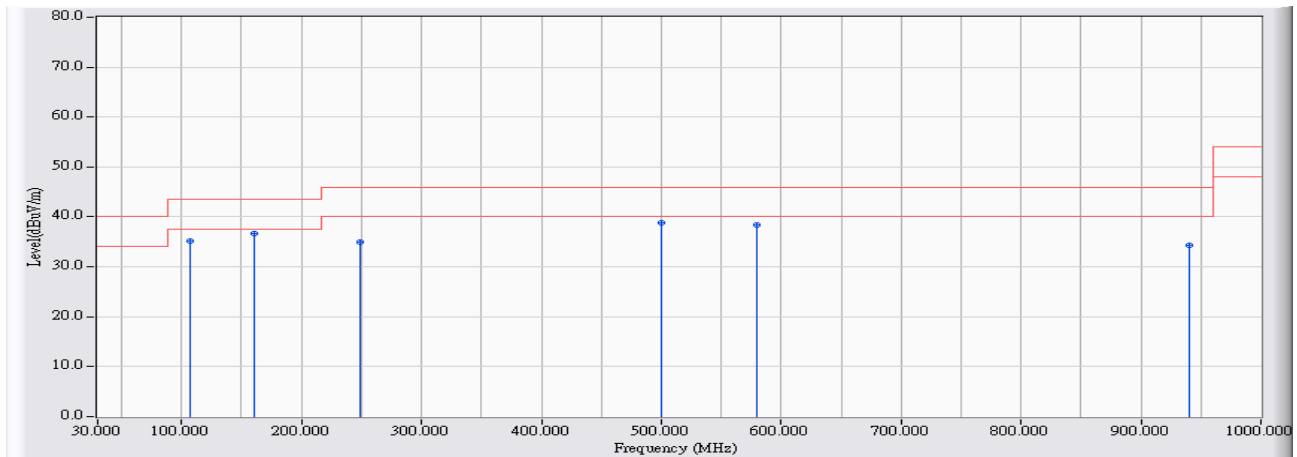


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	58.709	11.217	21.249	32.466	-7.534	40.000	QUASIPeAK
2	* 106.622	12.558	23.981	36.539	-6.961	43.500	QUASIPeAK
3	243.864	12.142	18.749	30.891	-15.109	46.000	QUASIPeAK
4	499.918	17.754	16.625	34.378	-11.622	46.000	QUASIPeAK
5	757.233	21.785	11.068	32.852	-13.148	46.000	QUASIPeAK
6	948.983	23.921	10.929	34.850	-11.150	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2015/09/24 - 15:49
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - HORIZONTAL	Power : AC120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 3: Transmit_ADP-33AW 802.11n(40M) 5795MHz

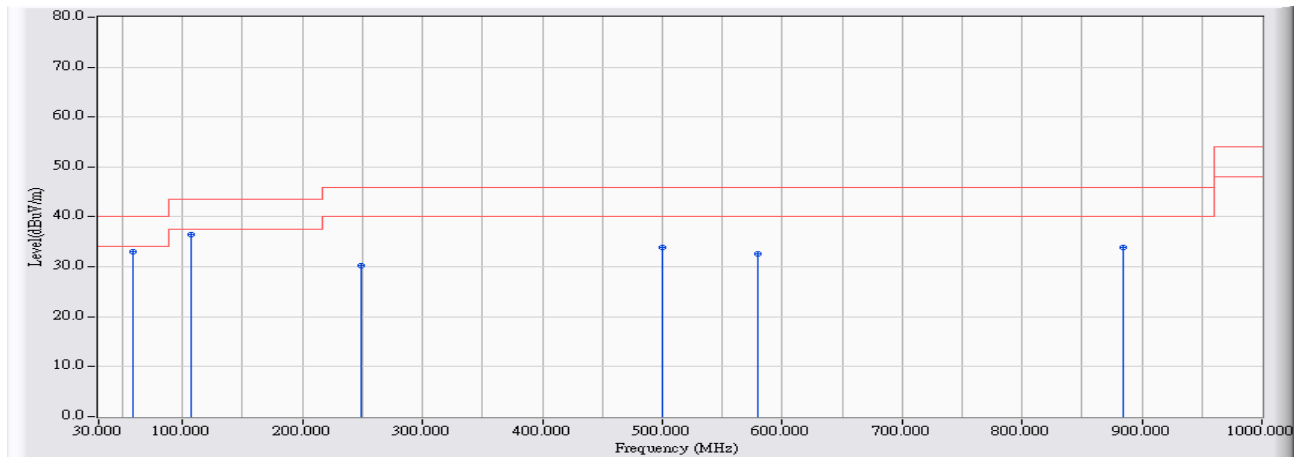


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		106.622	12.558	22.674	35.232	-8.268	43.500	QUASIPeAK
2	*	160.743	17.833	18.925	36.757	-6.743	43.500	QUASIPeAK
3		249.101	12.297	22.593	34.890	-11.110	46.000	QUASIPeAK
4		499.918	17.754	21.096	38.849	-7.151	46.000	QUASIPeAK
5		579.935	19.312	19.003	38.315	-7.685	46.000	QUASIPeAK
6		940.642	23.841	10.507	34.348	-11.652	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2015/09/24 - 15:47
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - VERTICAL	Power : AC120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 3: Transmit_ADP-33AW 802.11n(40M) 5795MHz

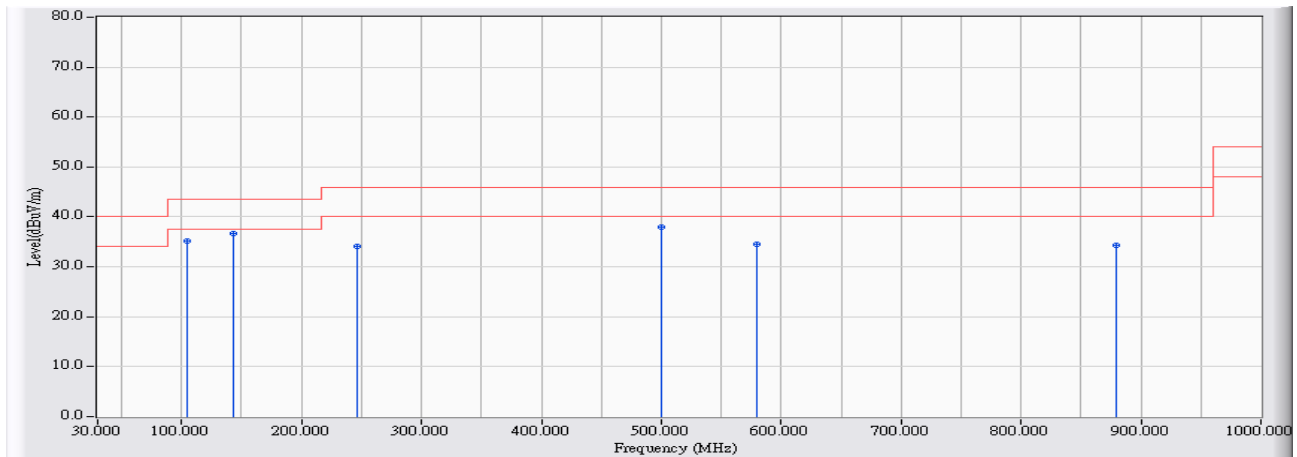


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	58.709	11.217	21.715	32.932	-7.068	40.000	QUASIPeAK
2		106.622	12.558	23.854	36.412	-7.088	43.500	QUASIPeAK
3		248.616	12.282	17.984	30.267	-15.733	46.000	QUASIPeAK
4		499.918	17.754	16.119	33.872	-12.128	46.000	QUASIPeAK
5		579.935	19.312	13.320	32.632	-13.368	46.000	QUASIPeAK
6		883.806	23.270	10.702	33.971	-12.029	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2015/09/24 - 15:38
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - HORIZONTAL	Power : AC120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 3: Transmit_ADP-33AW 802.11ac(80M) 5775MHz

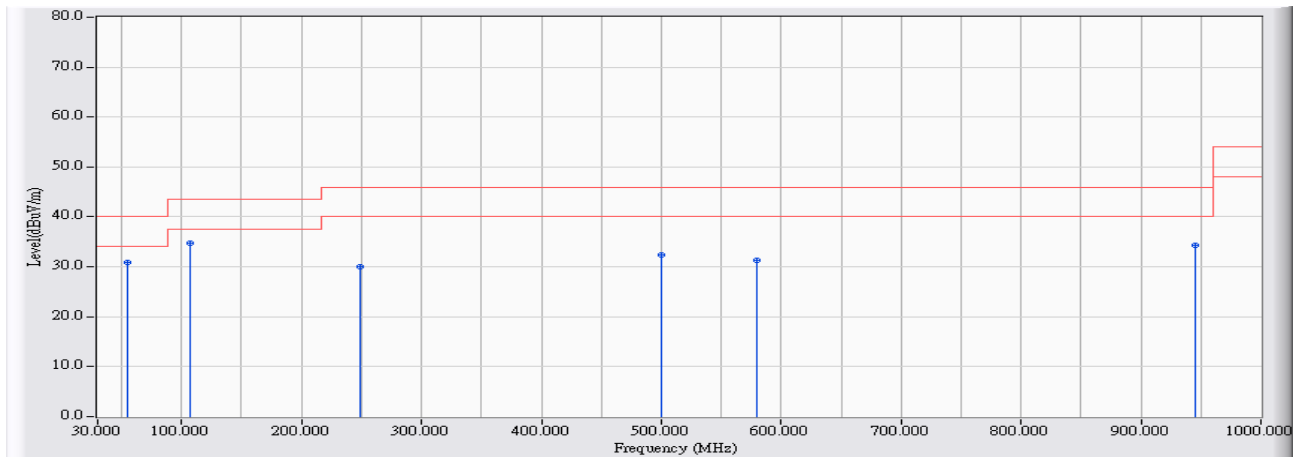


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	104.683	12.550	22.641	35.192	-8.308	43.500	QUASIPeAK
2	* 143.188	16.609	20.019	36.628	-6.872	43.500	QUASIPeAK
3	245.997	12.205	21.841	34.046	-11.954	46.000	QUASIPeAK
4	499.918	17.754	20.205	37.958	-8.042	46.000	QUASIPeAK
5	579.935	19.312	15.295	34.607	-11.393	46.000	QUASIPeAK
6	878.859	23.214	11.141	34.355	-11.645	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2015/09/24 - 15:40
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - VERTICAL	Power : AC120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 3: Transmit_ADP-33AW 802.11ac(80M) 5775MHz



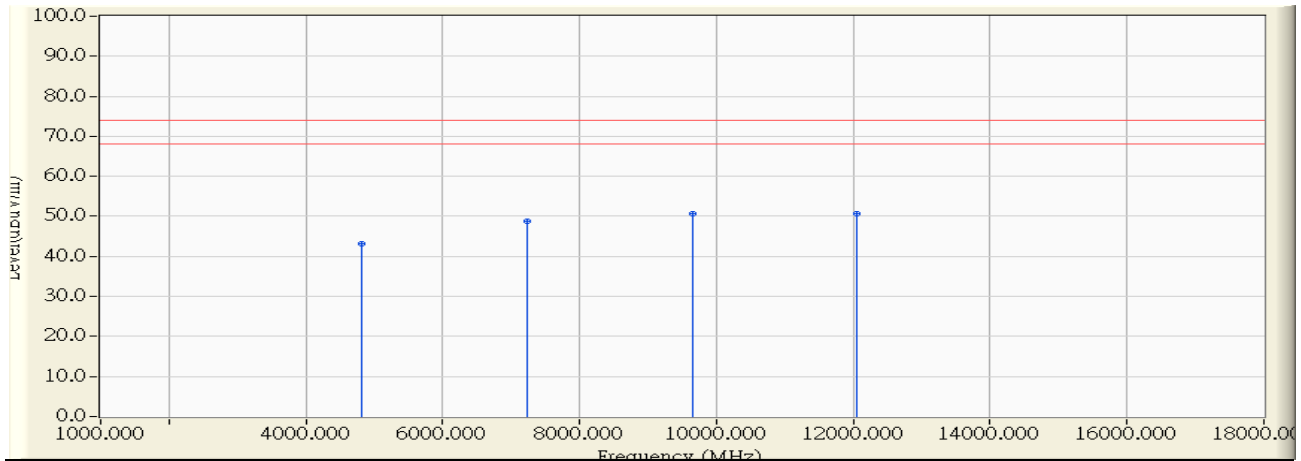
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	55.217	11.408	19.473	30.881	-9.119	40.000	QUASIPeAK
2	* 106.622	12.558	22.120	34.678	-8.822	43.500	QUASIPeAK
3	248.713	12.286	17.648	29.933	-16.067	46.000	QUASIPeAK
4	499.918	17.754	14.704	32.457	-13.543	46.000	QUASIPeAK
5	579.935	19.312	11.938	31.250	-14.750	46.000	QUASIPeAK
6	945.685	23.889	10.476	34.365	-11.635	46.000	QUASIPeAK

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.

Above 1GHz Spurious

Site : CB1	Time : 2015/07/08 - 00:20
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11b 2412MHz

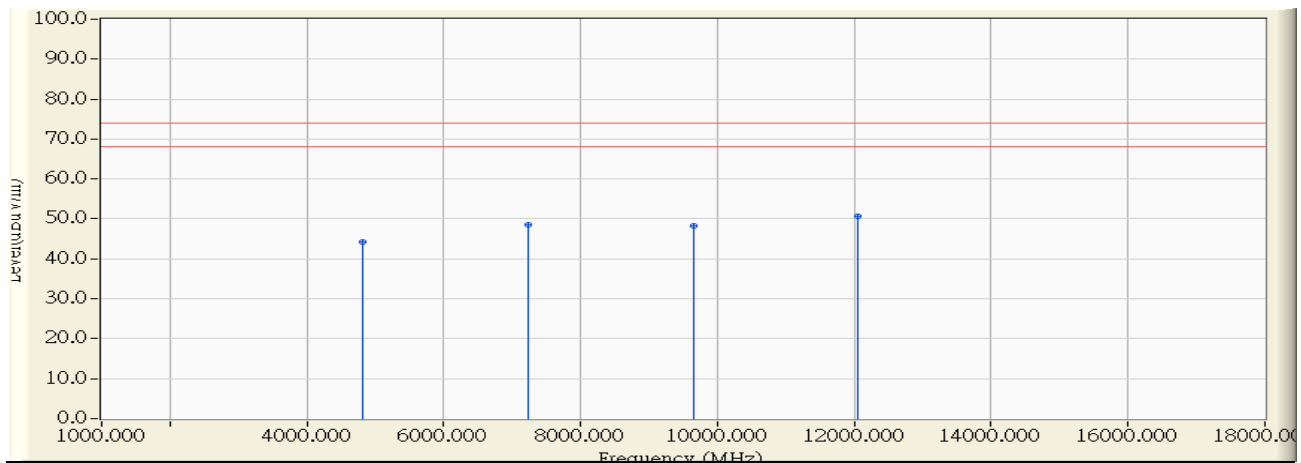


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	-2.663	45.830	43.167	-30.833	74.000	PEAK
2		7236.000	5.411	43.470	48.881	-25.119	74.000	PEAK
3		9648.000	6.567	44.180	50.747	-23.253	74.000	PEAK
4	*	12060.000	9.676	41.090	50.765	-23.235	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 : 2015/07/08 - 00:31
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11b 2412MHz

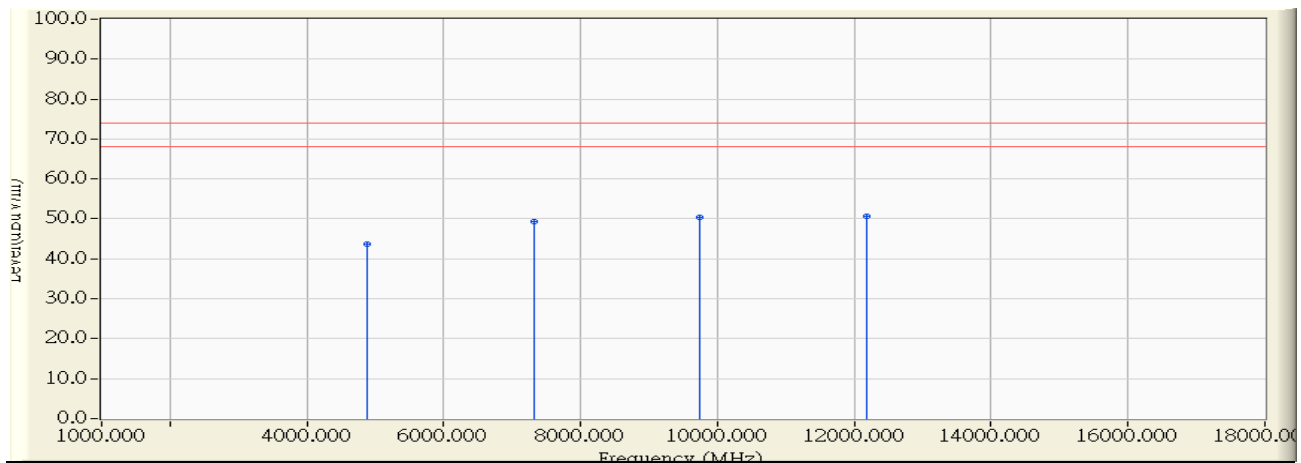


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	-1.766	46.010	44.245	-29.755	74.000	PEAK
2		7236.000	4.911	43.690	48.601	-25.399	74.000	PEAK
3		9648.000	6.070	42.080	48.150	-25.850	74.000	PEAK
4	*	12060.000	9.253	41.320	50.572	-23.428	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 : 2015/07/08 - 00:43
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11b 2437MHz

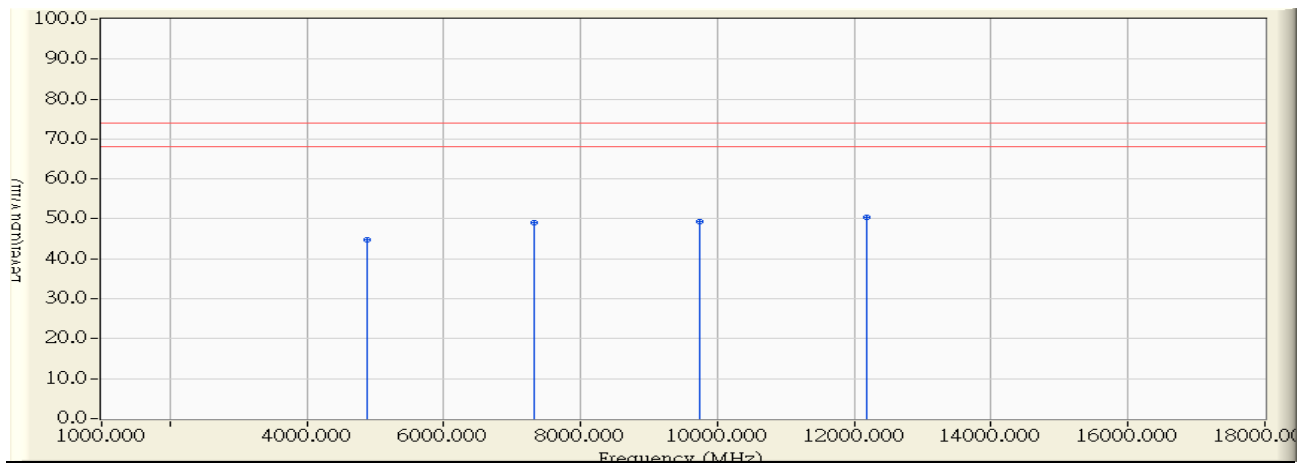


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-2.530	46.190	43.660	-30.340	74.000	PEAK
2		7311.000	5.562	43.890	49.453	-24.547	74.000	PEAK
3		9748.000	7.147	43.290	50.437	-23.563	74.000	PEAK
4	*	12185.000	9.571	41.060	50.630	-23.370	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 : 2015/07/08 - 00:37
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11b 2437MHz

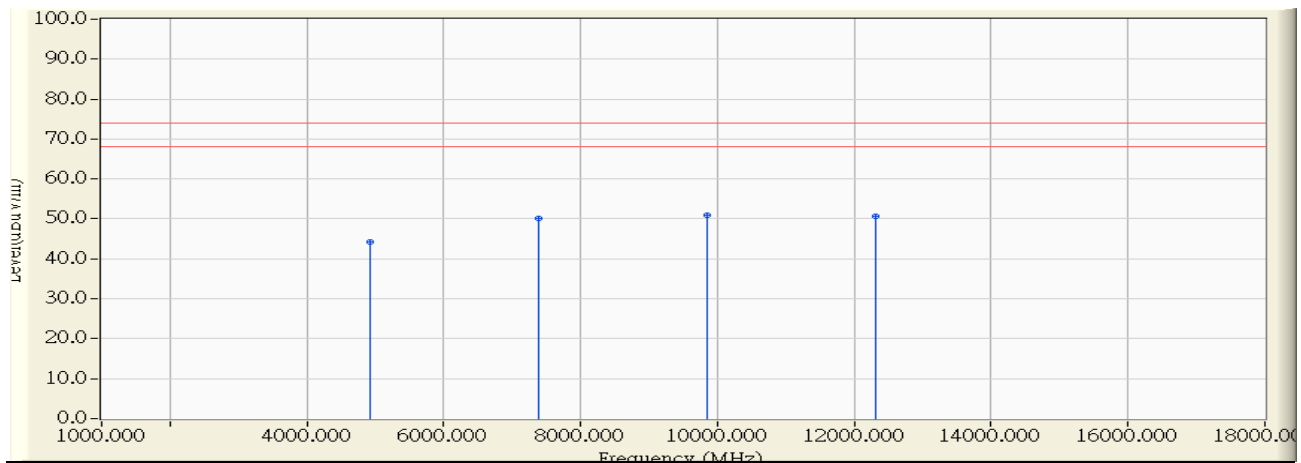


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-1.758	46.500	44.743	-29.257	74.000	PEAK
2		7311.000	5.062	44.070	49.133	-24.867	74.000	PEAK
3		9748.000	6.499	42.740	49.239	-24.761	74.000	PEAK
4	*	12185.000	9.273	41.130	50.402	-23.598	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 : 2015/07/08 - 00:49
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11b 2462MHz

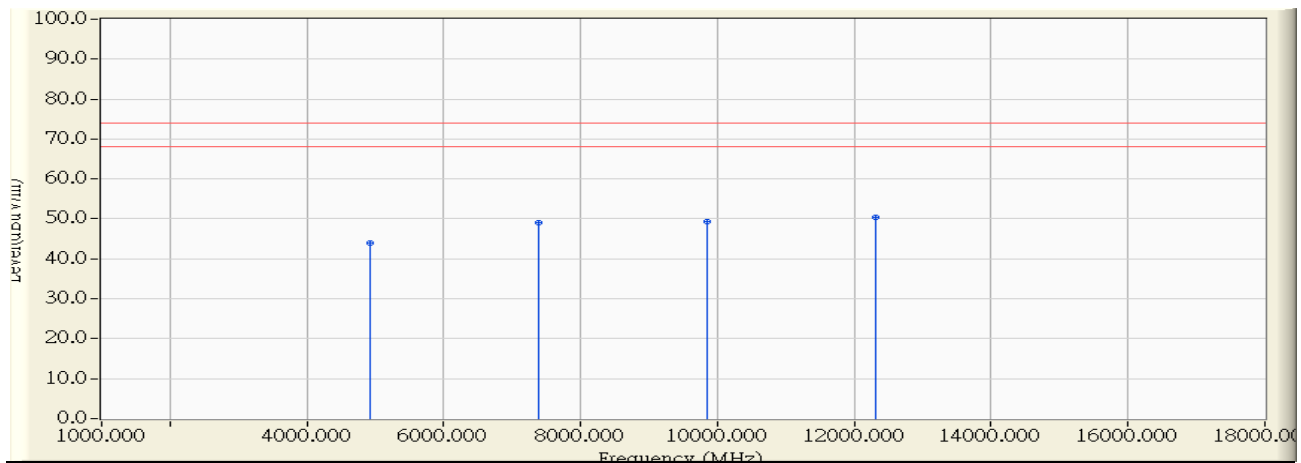


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4924.000	-2.397	46.740	44.343	-29.657	74.000	PEAK
2	7386.000	5.714	44.290	50.004	-23.996	74.000	PEAK
3	* 9848.000	7.727	43.080	50.807	-23.193	74.000	PEAK
4	12310.000	9.466	41.290	50.755	-23.245	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 : 2015/07/08 - 00:56
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11b 2462MHz

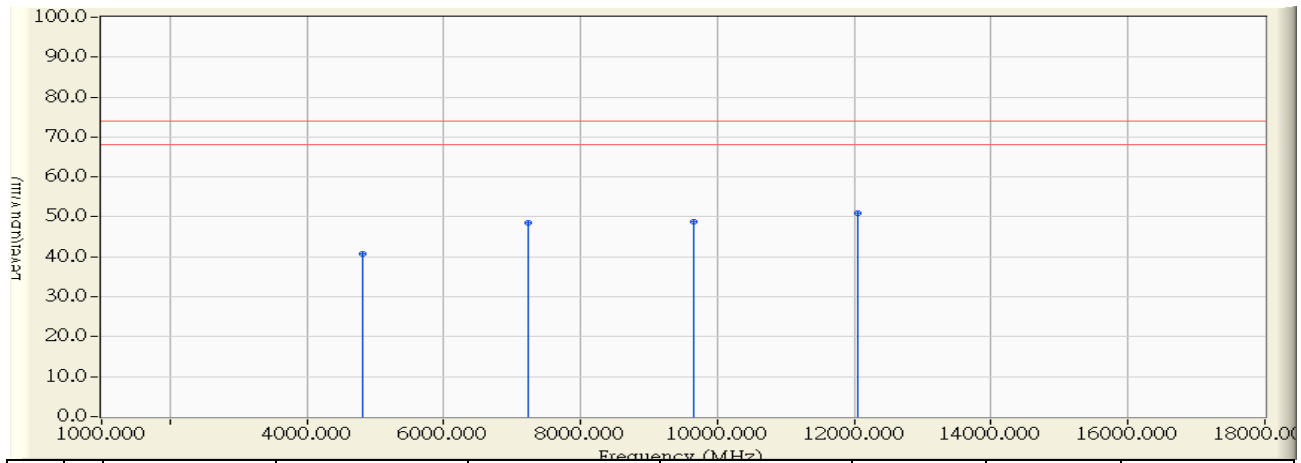


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	-1.750	45.830	44.081	-29.919	74.000	PEAK
2		7386.000	5.214	43.920	49.134	-24.866	74.000	PEAK
3		9848.000	6.929	42.280	49.209	-24.791	74.000	PEAK
4	*	12310.000	9.293	41.020	50.312	-23.688	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 : 2015/07/08 - 01:36
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11g 2412MHz

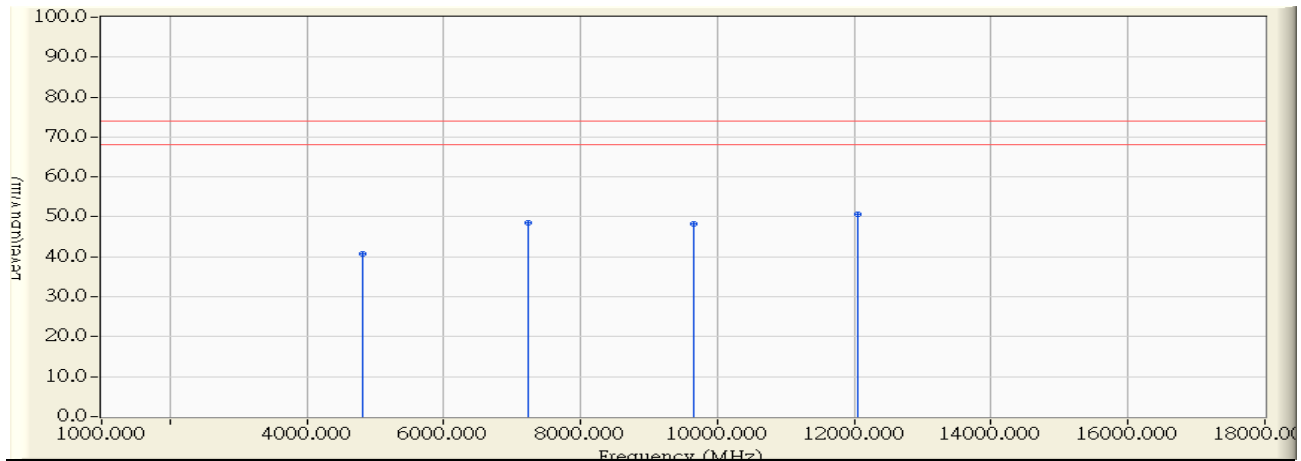


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	-2.663	43.340	40.677	-33.323	74.000	PEAK
2		7236.000	5.411	43.170	48.581	-25.419	74.000	PEAK
3		9648.000	6.567	42.170	48.737	-25.263	74.000	PEAK
4	*	12060.000	9.676	41.290	50.965	-23.035	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 : 2015/07/08 - 01:31
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11g 2412MHz

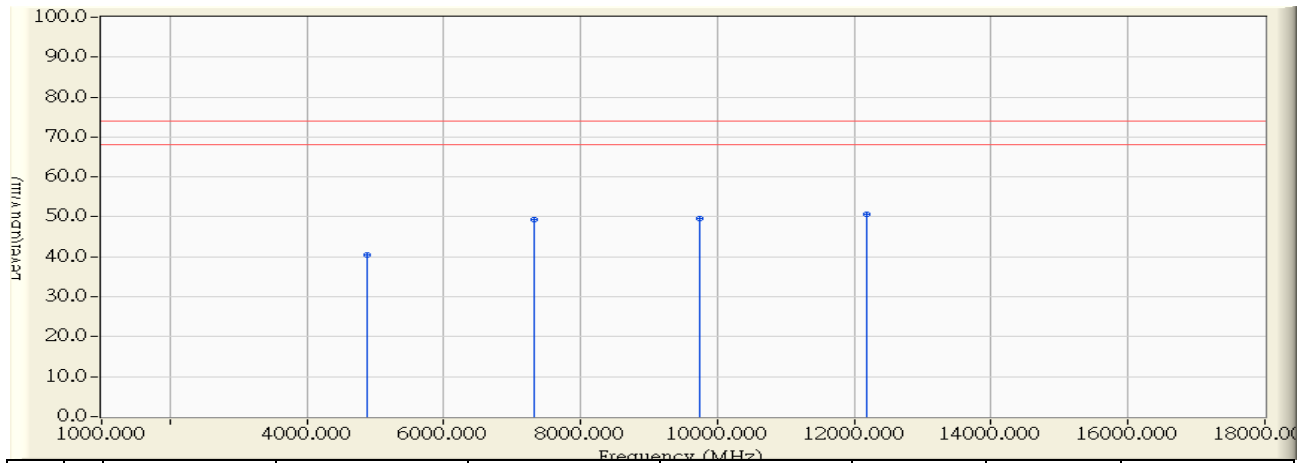


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	-1.766	42.580	40.815	-33.185	74.000	PEAK
2		7236.000	4.911	43.540	48.451	-25.549	74.000	PEAK
3		9648.000	6.070	42.080	48.150	-25.850	74.000	PEAK
4	*	12060.000	9.253	41.380	50.632	-23.368	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 : 2015/07/08 - 01:15
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11g 2437MHz

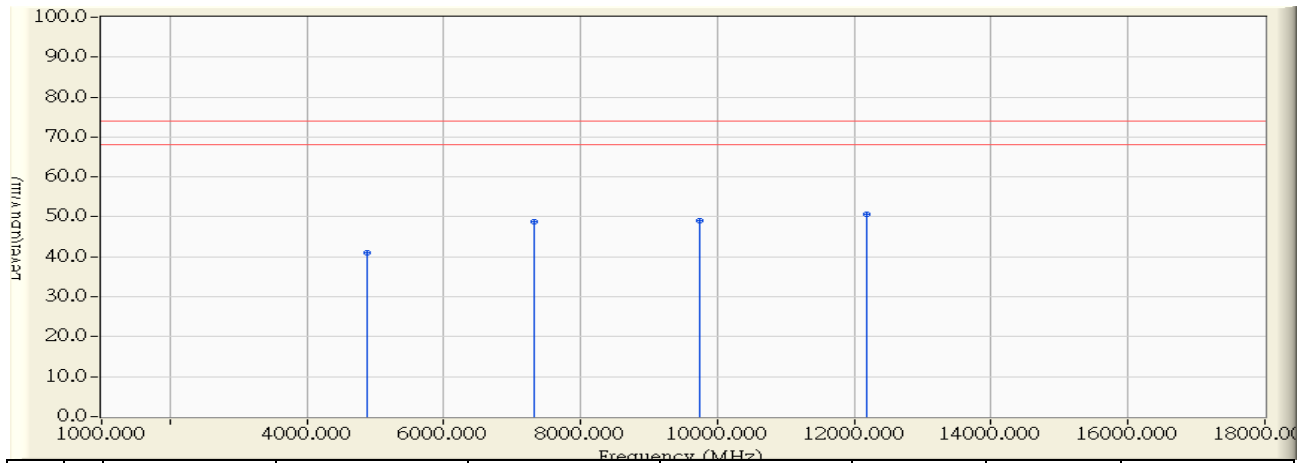


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-2.530	42.990	40.460	-33.540	74.000	PEAK
2		7311.000	5.562	43.700	49.263	-24.737	74.000	PEAK
3		9748.000	7.147	42.460	49.607	-24.393	74.000	PEAK
4	*	12185.000	9.571	41.110	50.680	-23.320	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 : 2015/07/08 - 01:21
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11g 2437MHz

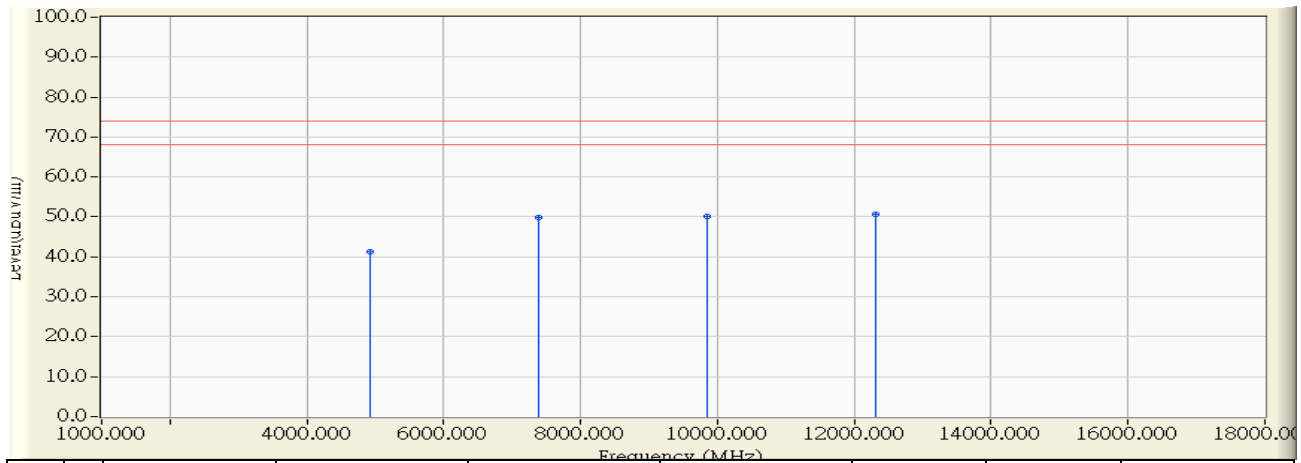


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-1.758	42.680	40.923	-33.077	74.000	PEAK
2		7311.000	5.062	43.830	48.893	-25.107	74.000	PEAK
3		9748.000	6.499	42.520	49.019	-24.981	74.000	PEAK
4	*	12185.000	9.273	41.410	50.682	-23.318	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 : 2015/07/08 - 01:09
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11g 2462MHz

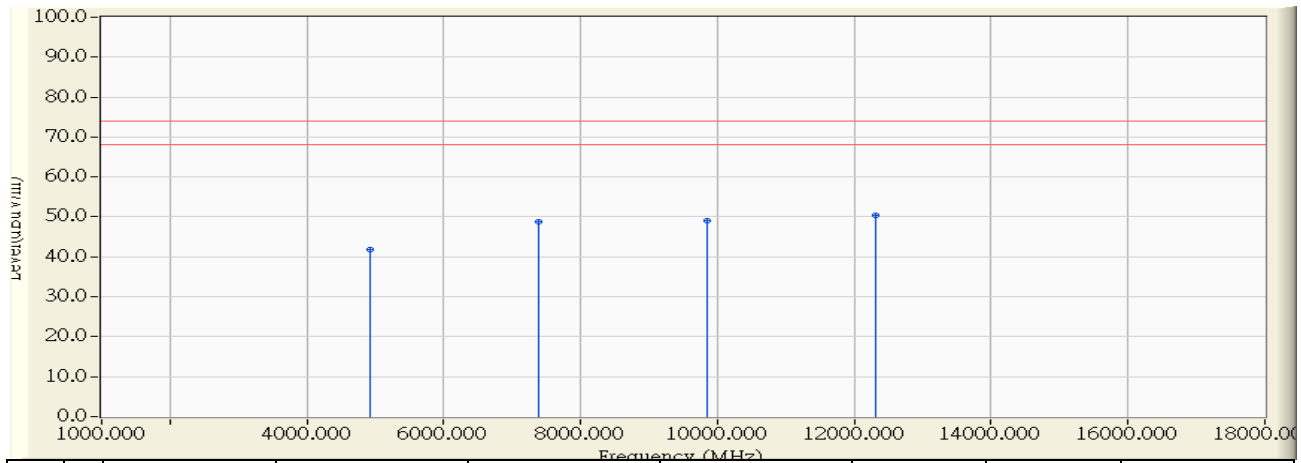


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	-2.397	43.650	41.253	-32.747	74.000	PEAK
2		7386.000	5.714	44.040	49.754	-24.246	74.000	PEAK
3		9848.000	7.727	42.350	50.077	-23.923	74.000	PEAK
4	*	12310.000	9.466	41.130	50.595	-23.405	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 : 2015/07/08 - 01:03
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11g 2462MHz

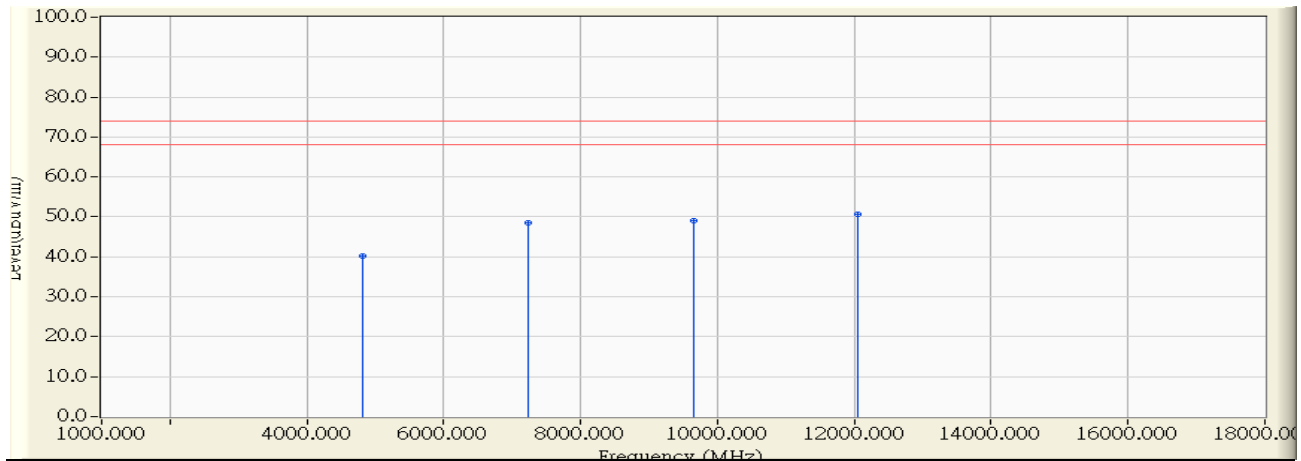


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	-1.750	43.660	41.911	-32.089	74.000	PEAK
2		7386.000	5.214	43.710	48.924	-25.076	74.000	PEAK
3		9848.000	6.929	42.210	49.139	-24.861	74.000	PEAK
4	*	12310.000	9.293	41.220	50.512	-23.488	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 : 2015/07/08 - 01:50
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11n(20M) 2412MHz

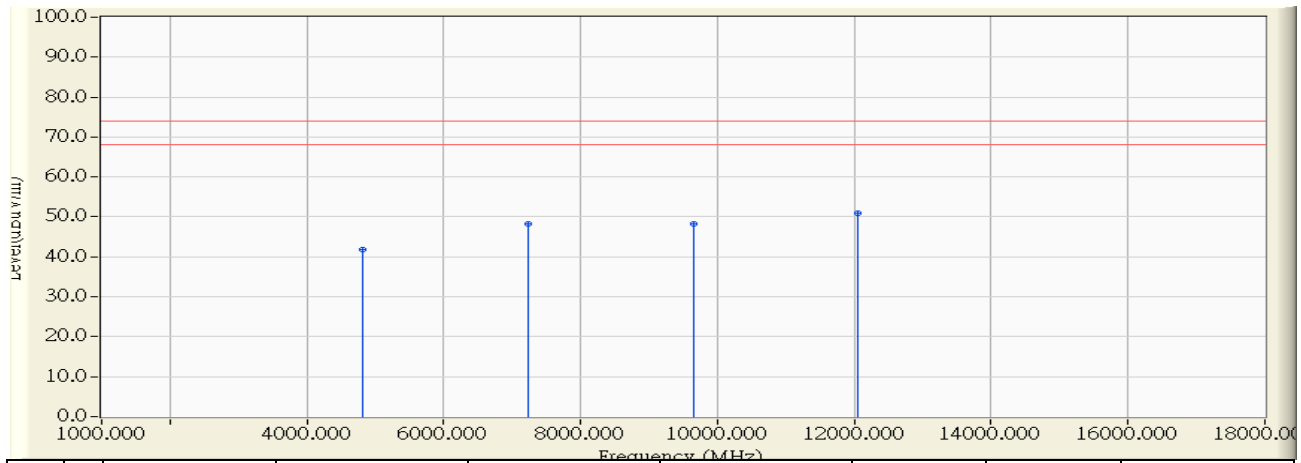


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	-2.663	42.910	40.247	-33.753	74.000	PEAK
2		7236.000	5.411	43.040	48.451	-25.549	74.000	PEAK
3		9648.000	6.567	42.440	49.007	-24.993	74.000	PEAK
4	*	12060.000	9.676	41.030	50.705	-23.295	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 : 2015/07/08 - 01:52
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11n(20M) 2412MHz

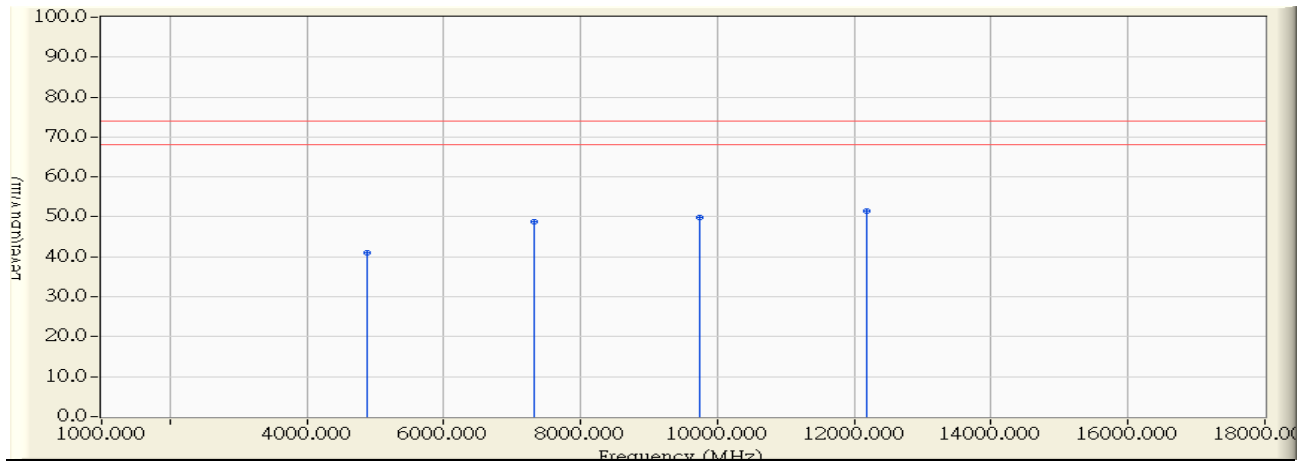


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	-1.766	43.530	41.765	-32.235	74.000	PEAK
2		7236.000	4.911	43.450	48.361	-25.639	74.000	PEAK
3		9648.000	6.070	42.080	48.150	-25.850	74.000	PEAK
4	*	12060.000	9.253	41.660	50.912	-23.088	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 : 2015/07/08 - 02:50
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11n(20M) 2437MHz

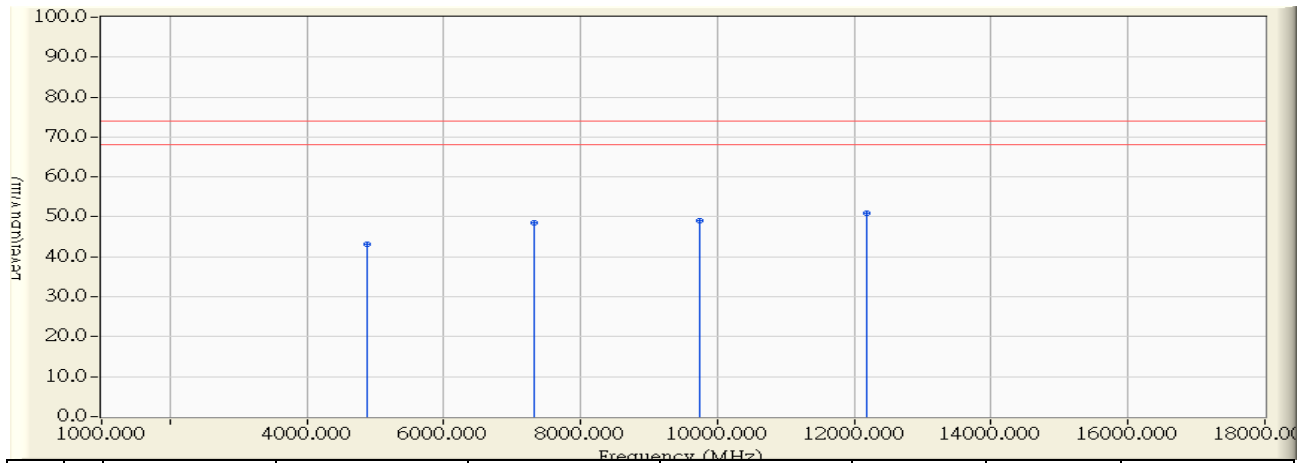


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-2.530	43.590	41.060	-32.940	74.000	PEAK
2		7311.000	5.562	43.240	48.803	-25.197	74.000	PEAK
3		9748.000	7.147	42.630	49.777	-24.223	74.000	PEAK
4	*	12185.000	9.571	41.850	51.420	-22.580	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 : 2015/07/08 - 02:46
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11n(20M) 2437MHz

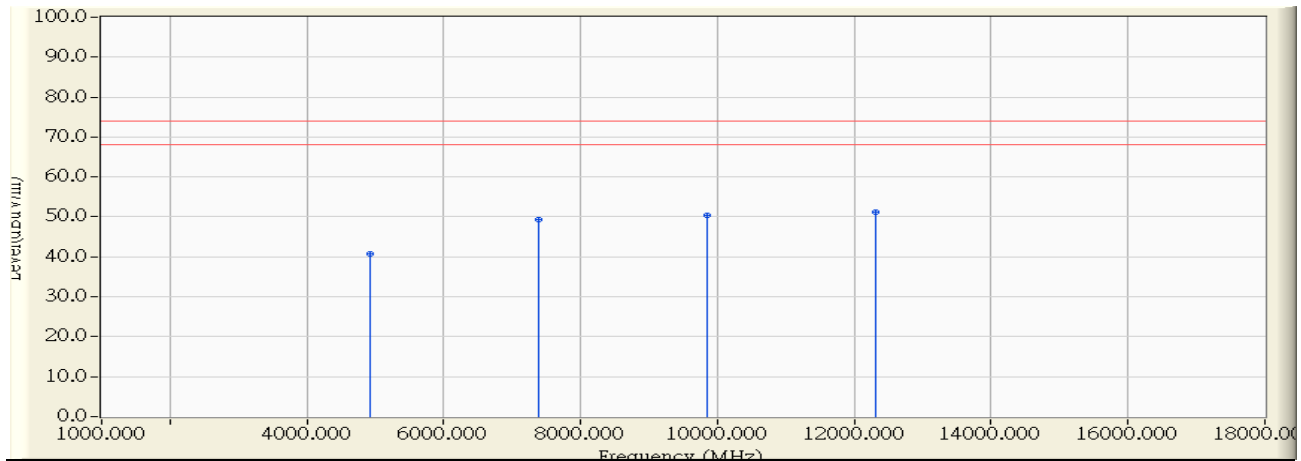


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-1.758	44.870	43.113	-30.887	74.000	PEAK
2		7311.000	5.062	43.430	48.493	-25.507	74.000	PEAK
3		9748.000	6.499	42.660	49.159	-24.841	74.000	PEAK
4	*	12185.000	9.273	41.630	50.902	-23.098	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 : 2015/07/08 - 02:58
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11n(20M) 2462MHz

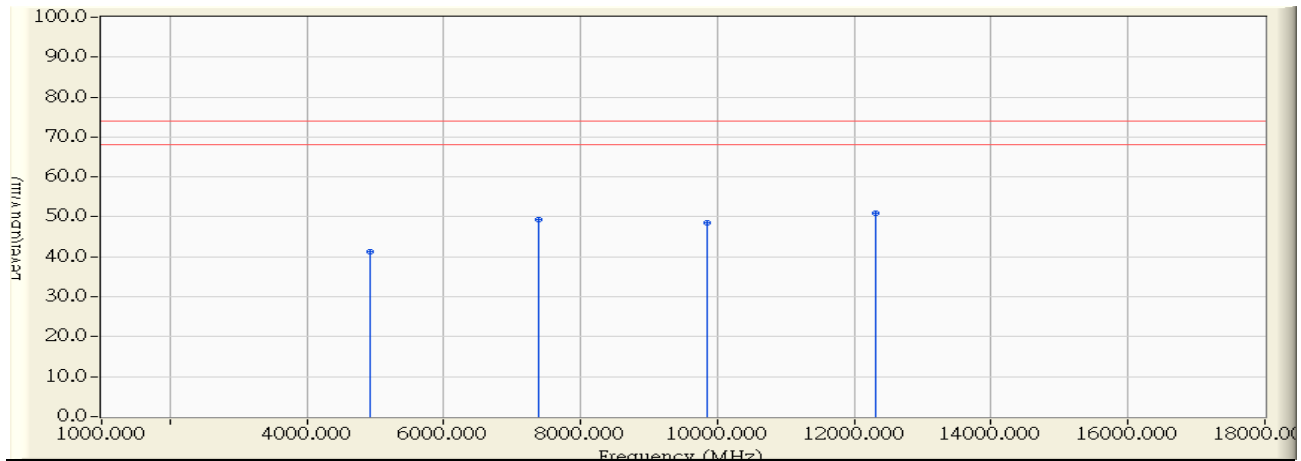


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	-2.397	43.120	40.723	-33.277	74.000	PEAK
2		7386.000	5.714	43.550	49.264	-24.736	74.000	PEAK
3		9848.000	7.727	42.630	50.357	-23.643	74.000	PEAK
4	*	12310.000	9.466	41.690	51.155	-22.845	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 : 2015/07/08 - 03:01
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11n(20M) 2462MHz

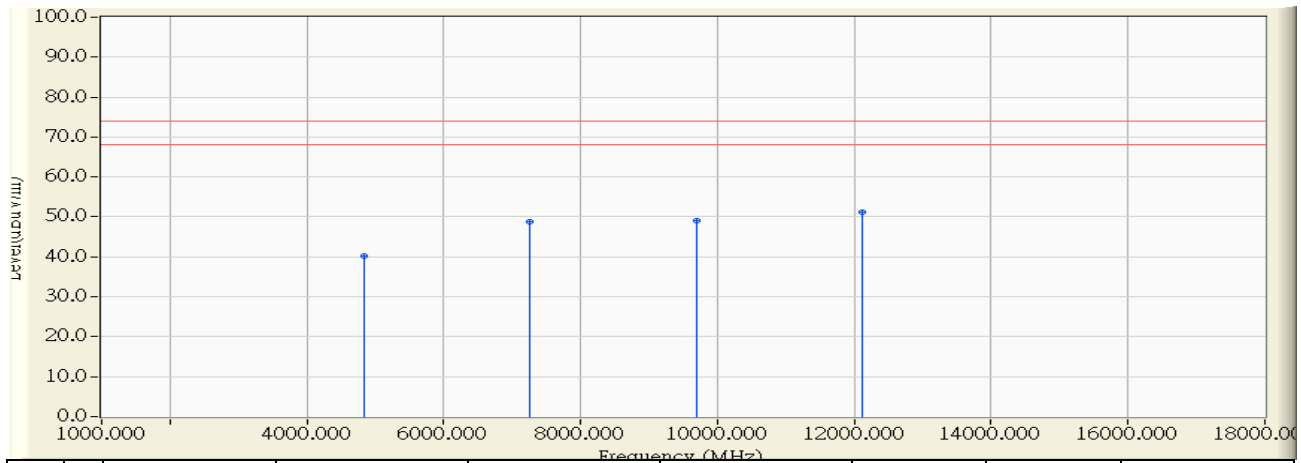


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	-1.750	43.010	41.261	-32.739	74.000	PEAK
2		7386.000	5.214	44.220	49.434	-24.566	74.000	PEAK
3		9848.000	6.929	41.700	48.629	-25.371	74.000	PEAK
4	*	12310.000	9.293	41.590	50.882	-23.118	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 : 2015/07/08 - 03:10
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11n(40M) 2422MHz

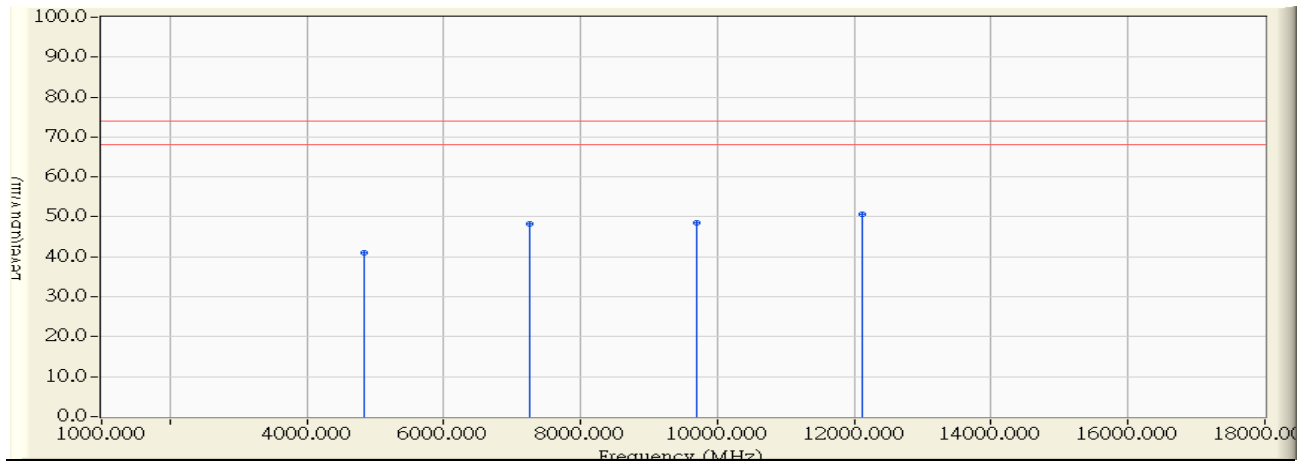


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4844.000	-2.610	42.940	40.330	-33.670	74.000	PEAK
2		7266.000	5.471	43.340	48.812	-25.188	74.000	PEAK
3		9688.000	6.799	42.350	49.149	-24.851	74.000	PEAK
4	*	12110.000	9.634	41.590	51.223	-22.777	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 : 2015/07/08 - 03:06
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11n(40M) 2422MHz

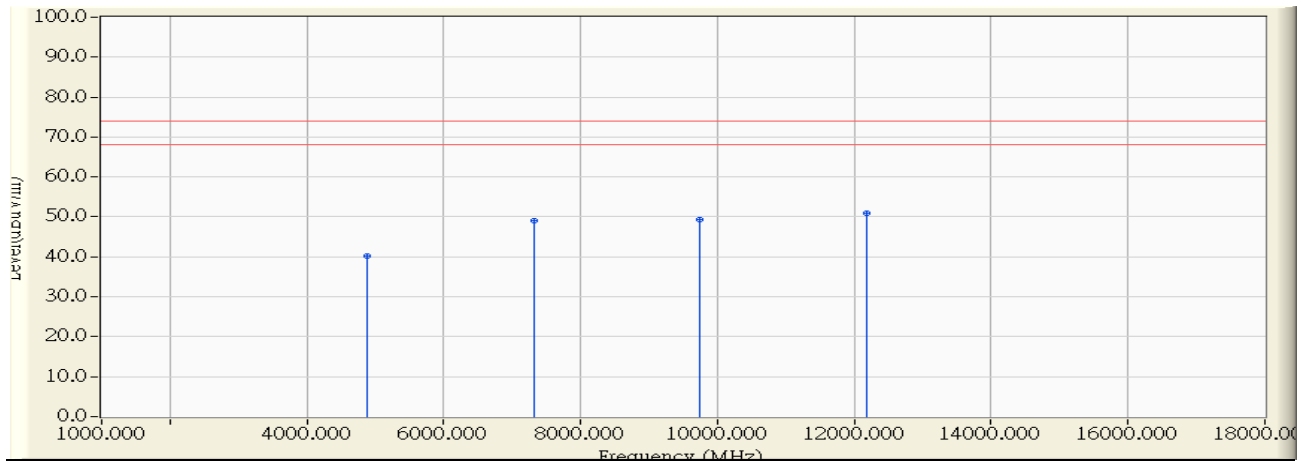


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4844.000	-1.763	42.850	41.088	-32.912	74.000	PEAK
2		7266.000	4.971	43.300	48.272	-25.728	74.000	PEAK
3		9688.000	6.241	42.350	48.591	-25.409	74.000	PEAK
4	*	12110.000	9.261	41.420	50.680	-23.320	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 : 2015/07/08 - 03:13
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11n(40M) 2437MHz

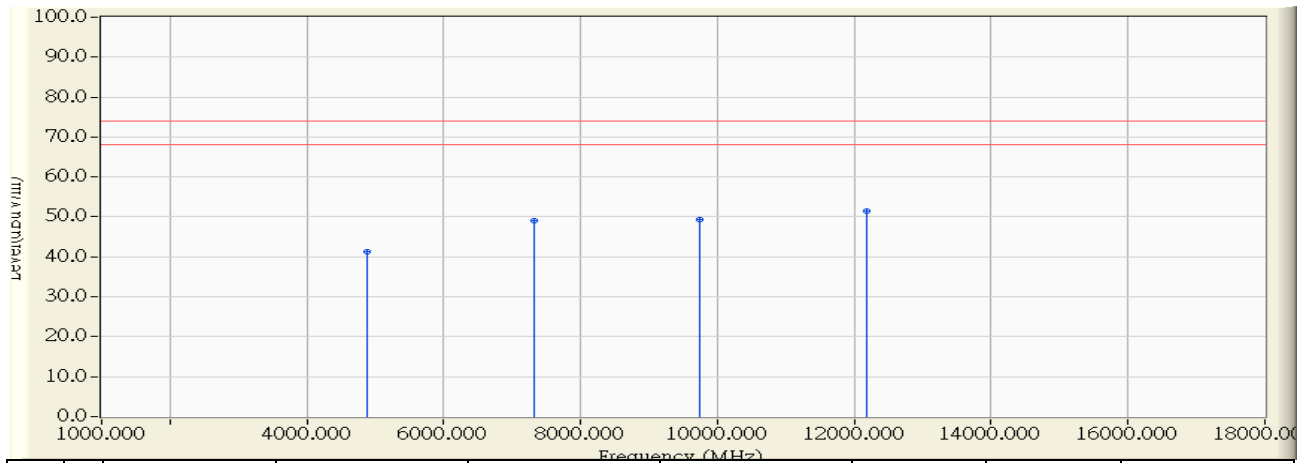


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-2.530	42.810	40.280	-33.720	74.000	PEAK
2		7311.000	5.562	43.510	49.073	-24.927	74.000	PEAK
3		9748.000	7.147	42.120	49.267	-24.733	74.000	PEAK
4	*	12185.000	9.571	41.450	51.020	-22.980	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 : 2015/07/08 - 03:16
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11n(40M) 2437MHz

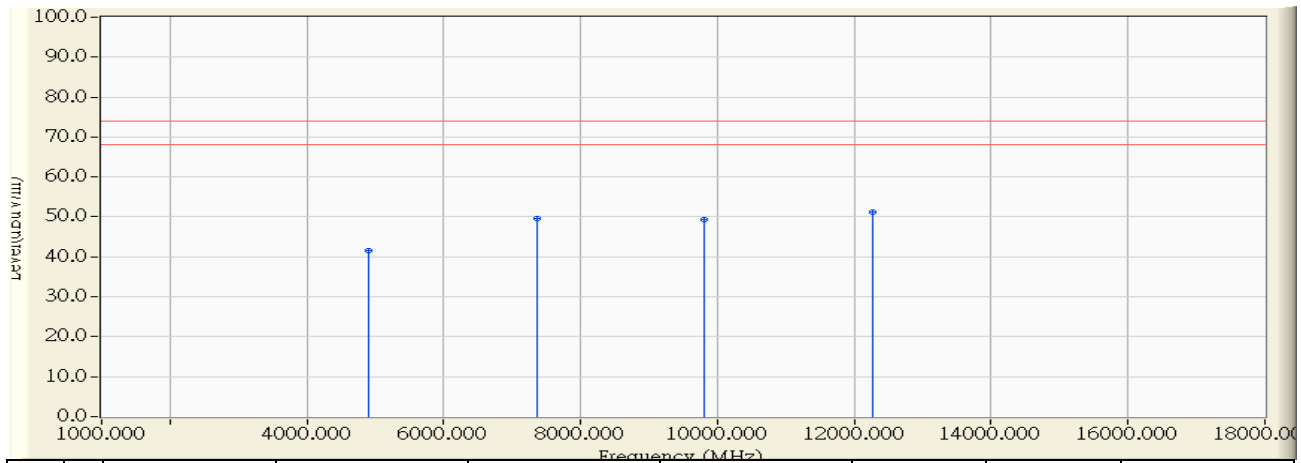


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-1.758	43.090	41.333	-32.667	74.000	PEAK
2		7311.000	5.062	44.090	49.153	-24.847	74.000	PEAK
3		9748.000	6.499	42.850	49.349	-24.651	74.000	PEAK
4	*	12185.000	9.273	42.250	51.522	-22.478	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 : 2015/07/08 - 03:21
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11n(40M) 2452MHz

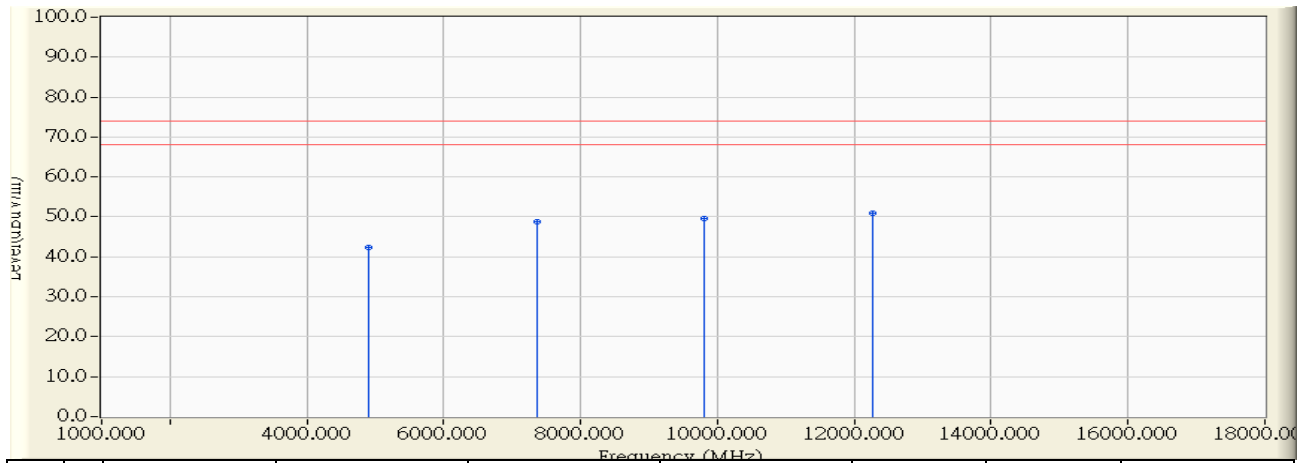


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4904.000	-2.450	43.950	41.500	-32.500	74.000	PEAK
2		7356.000	5.653	44.070	49.723	-24.277	74.000	PEAK
3		9808.000	7.495	41.710	49.205	-24.795	74.000	PEAK
4	*	12260.000	9.508	41.810	51.317	-22.683	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 : 2015/07/08 - 03:19
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11n(40M) 2452MHz

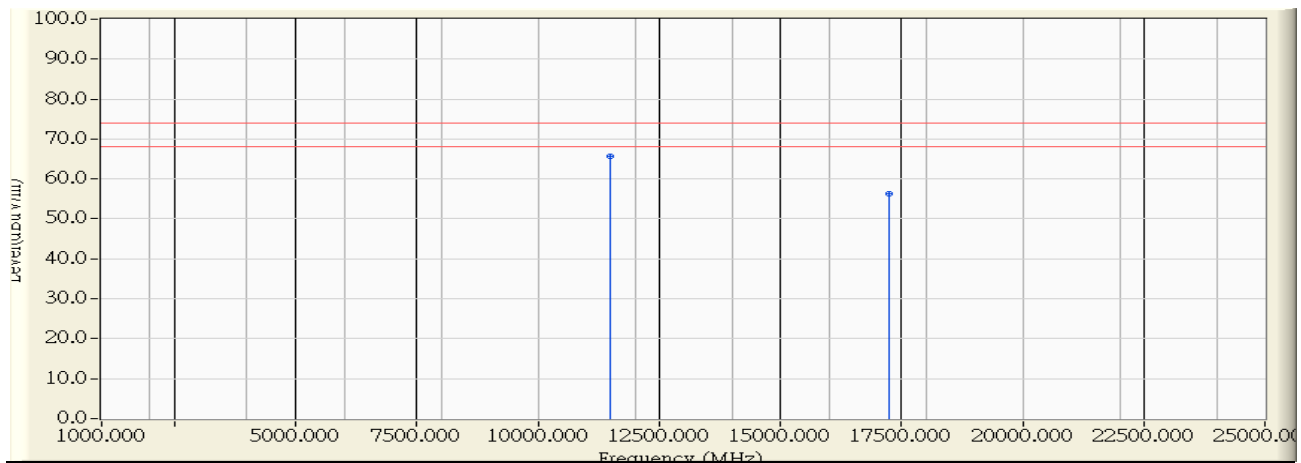


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4904.000	-1.753	44.020	42.267	-31.733	74.000	PEAK
2	7356.000	5.153	43.760	48.913	-25.087	74.000	PEAK
3	9808.000	6.757	42.740	49.497	-24.503	74.000	PEAK
4	* 12260.000	9.285	41.620	50.904	-23.096	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 : 2015/07/08 - 05:02
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11a 5745MHz

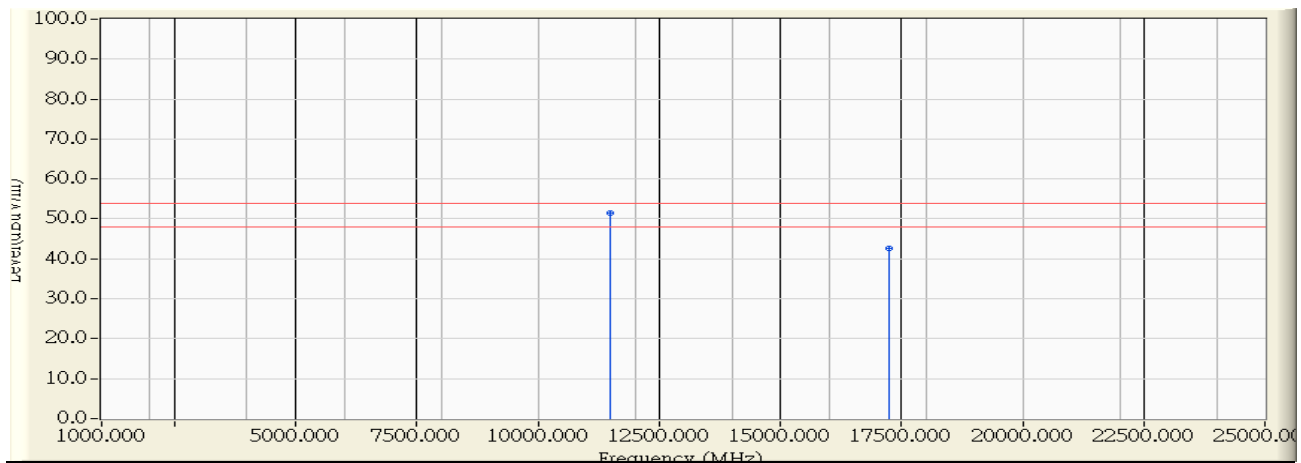


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11490.000	10.471	55.310	65.780	-8.220	74.000	PEAK
2		17235.000	13.130	43.130	56.261	-17.739	74.000	PEAK

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 : 2015/07/08 - 05:01
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD89032 802.11a 5745MHz

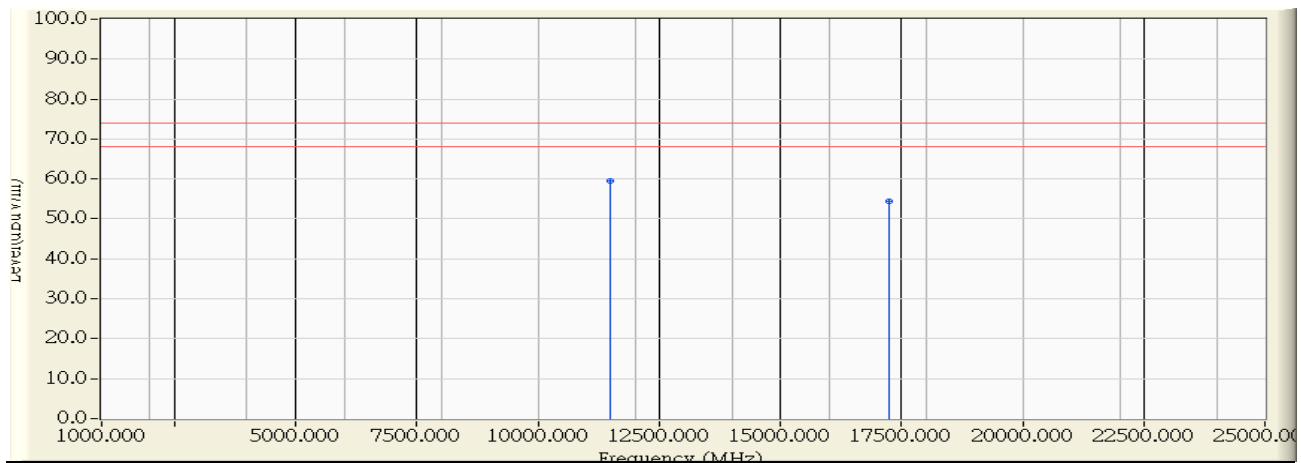


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11490.000	10.471	41.050	51.520	-2.480	54.000	AVERAGE
2		17235.000	13.130	29.520	42.651	-11.349	54.000	AVERAGE

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 : 2015/07/08 - 05:07
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11a 5745MHz

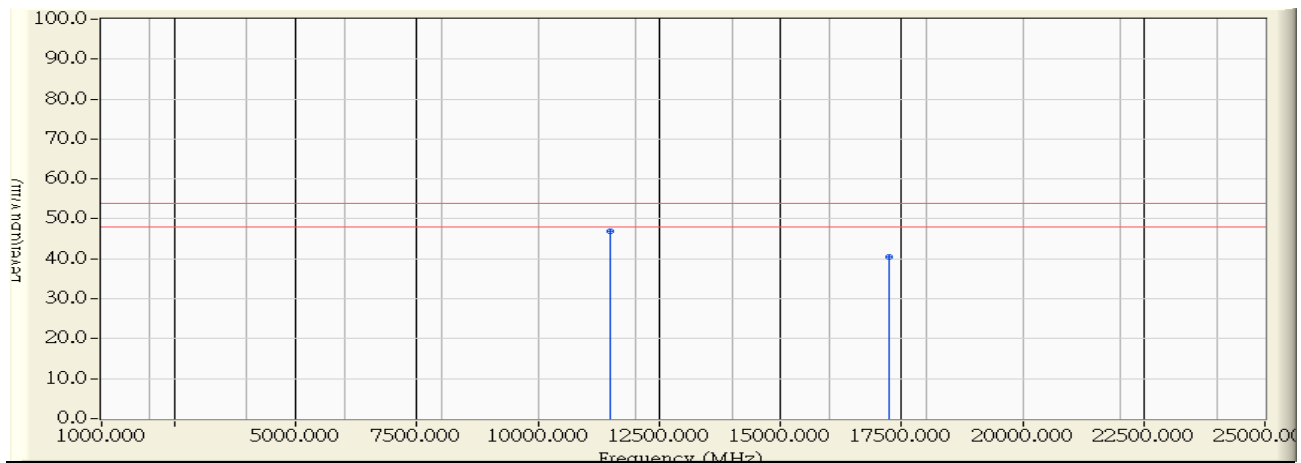


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11490.000	10.217	49.290	59.506	-14.494	74.000	PEAK
2		17235.000	13.130	41.280	54.411	-19.589	74.000	PEAK

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 : 2015/07/08 - 05:08
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11a 5745MHz

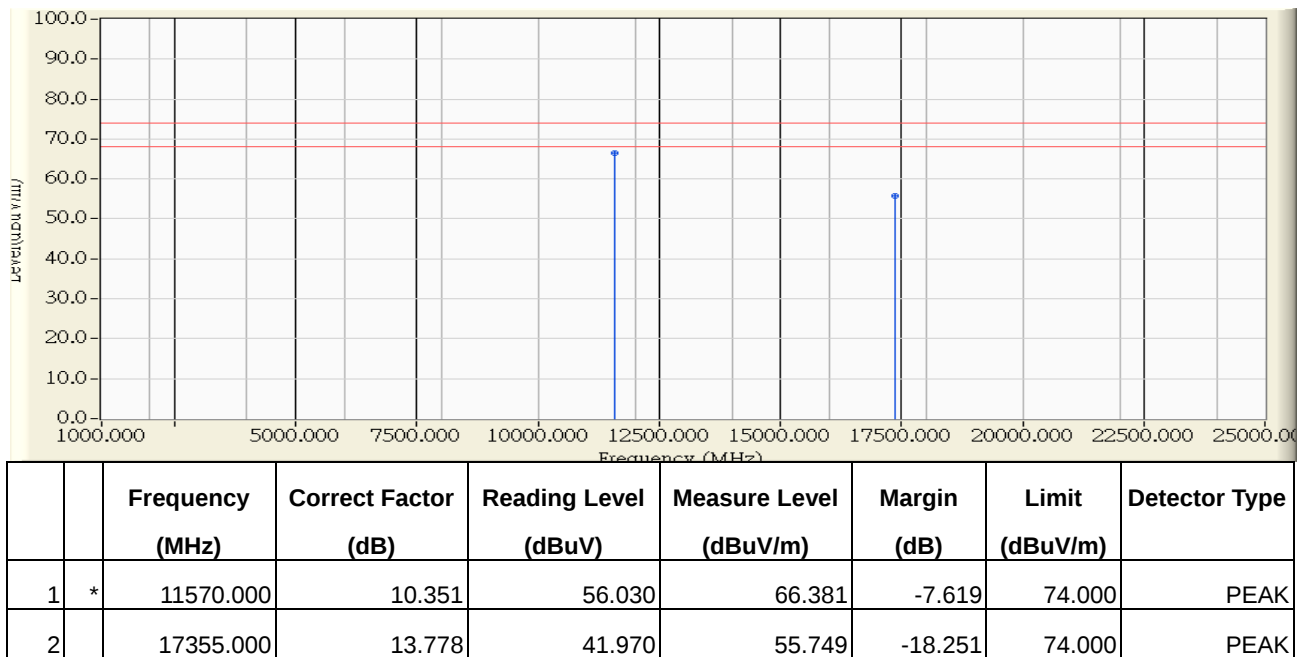


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11490.000	10.217	36.610	46.826	-7.174	54.000	AVERAGE
2		17235.000	13.130	27.400	40.531	-13.469	54.000	AVERAGE

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.

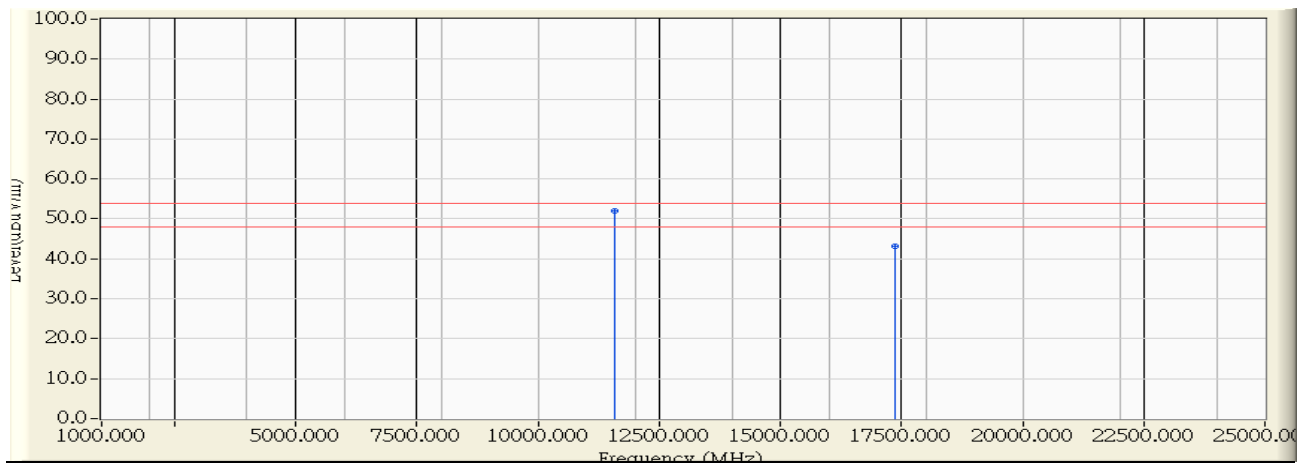
Site : CB1	Time : 2015/07/08 - 04:45
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11a 5785MHz



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 : 2015/07/08 - 04:44
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11a 5785MHz

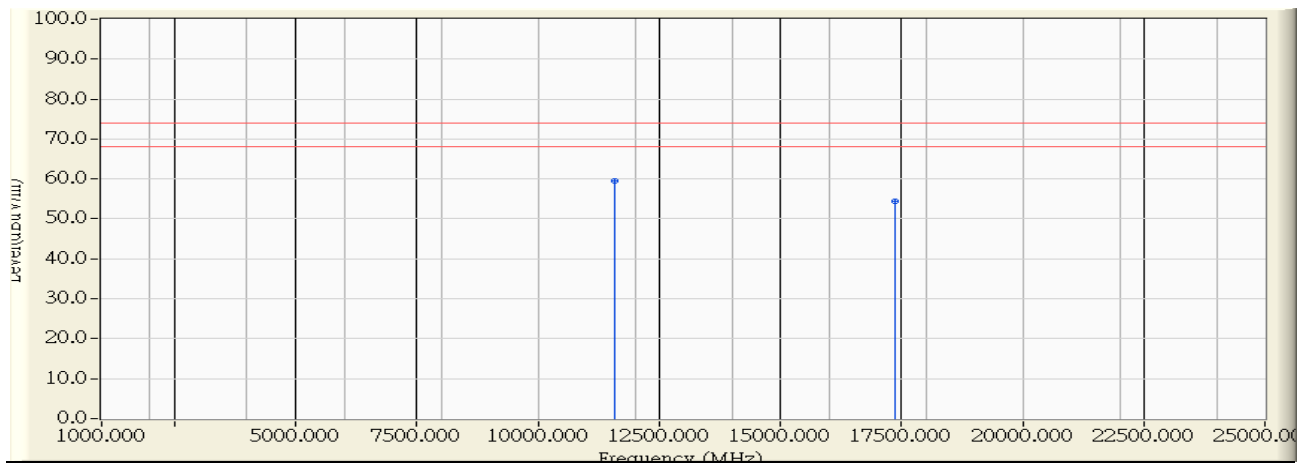


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11570.000	10.351	41.640	51.991	-2.009	54.000	AVERAGE
2		17355.000	13.778	29.350	43.129	-10.871	54.000	AVERAGE

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 : 2015/07/08 - 04:52
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11a 5785MHz

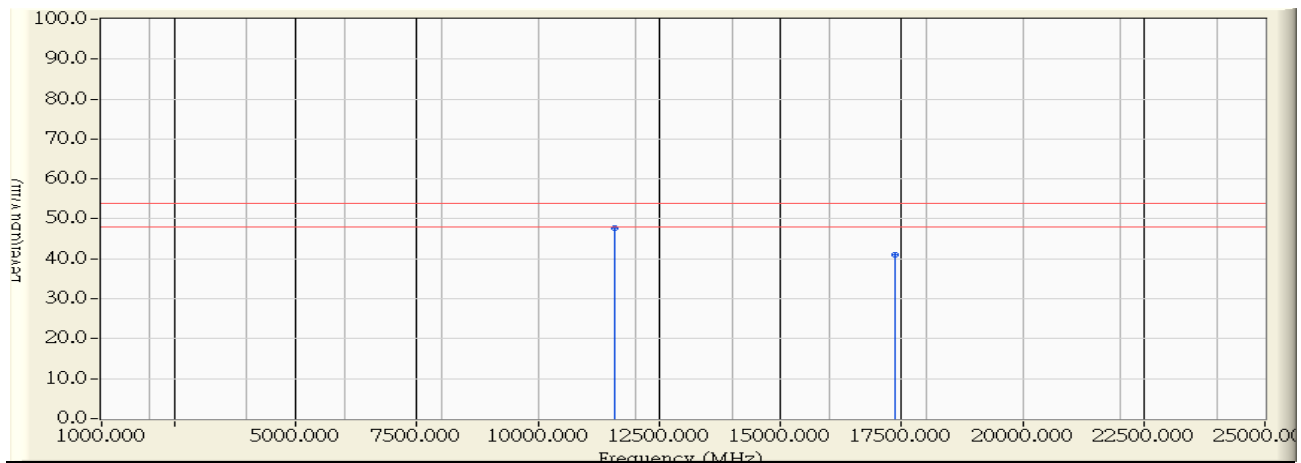


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11570.000	10.058	49.500	59.558	-14.442	74.000	PEAK
2		17355.000	13.778	40.770	54.549	-19.451	74.000	PEAK

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 : 2015/07/08 - 04:54
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11a 5785MHz

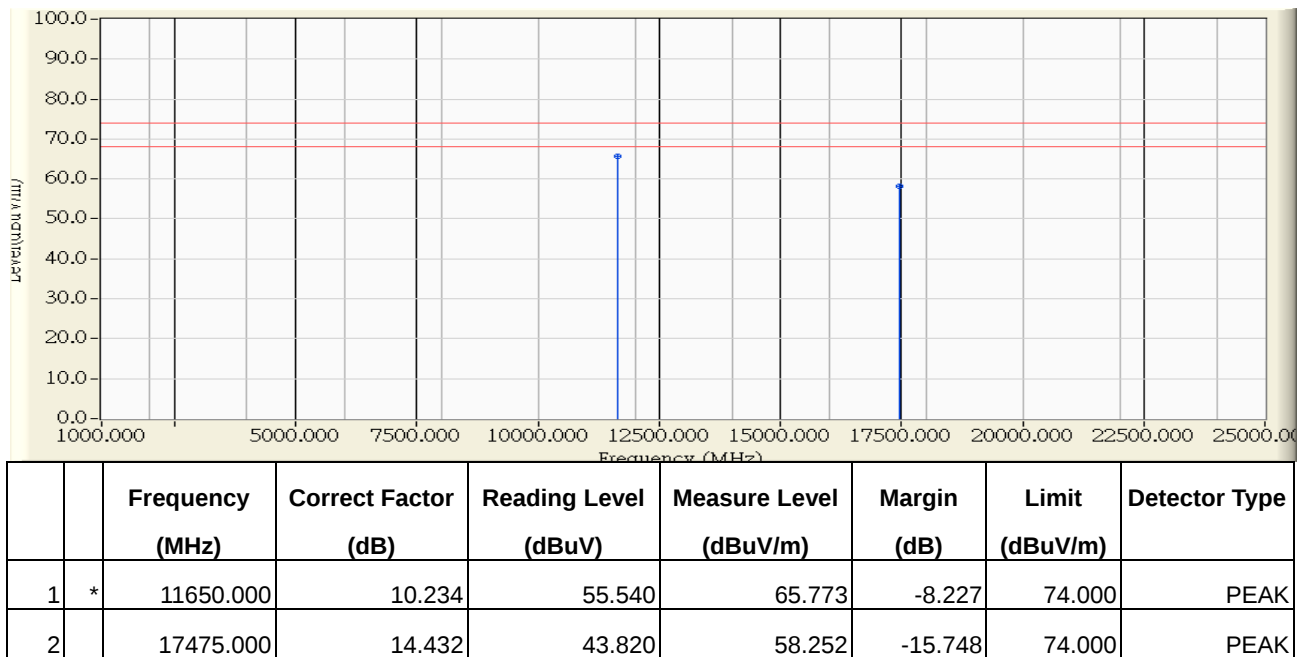


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11570.000	10.058	37.730	47.788	-6.212	54.000	AVERAGE
2		17355.000	13.778	27.140	40.919	-13.081	54.000	AVERAGE

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.

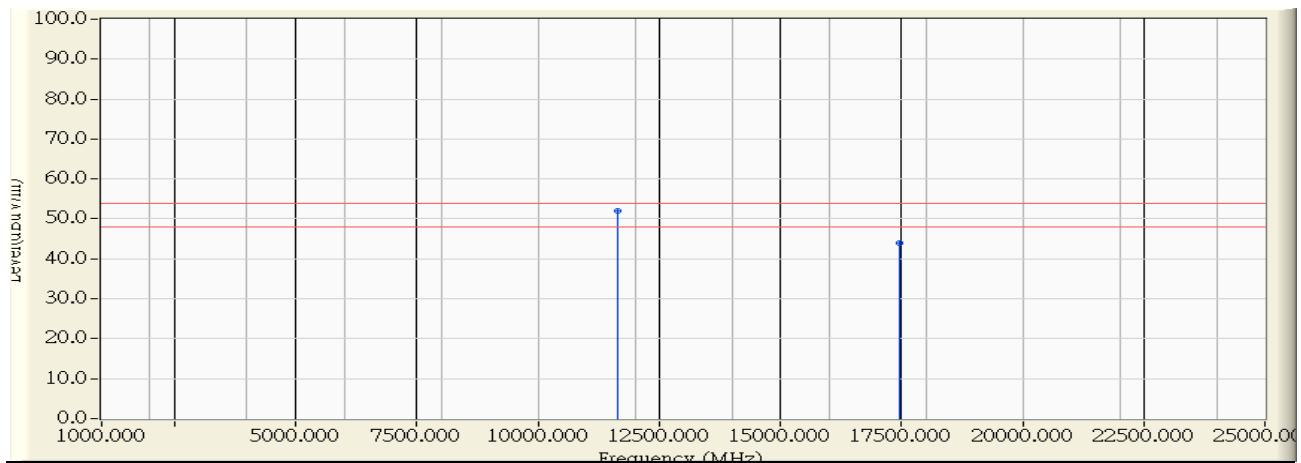
Site : CB1	Time : 2015/07/08 - 04:26
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11a 5825MHz



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 : 2015/07/08 - 04:24
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11a 5825MHz

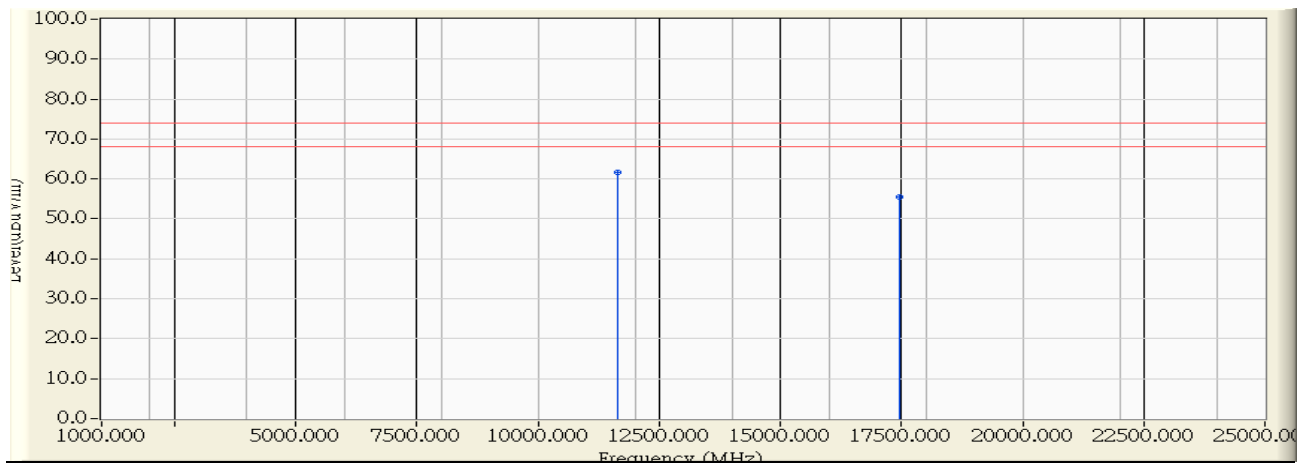


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11650.000	10.234	41.650	51.883	-2.117	54.000	AVERAGE
2		17475.000	14.432	29.440	43.872	-10.128	54.000	AVERAGE

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 : 2015/07/08 - 04:33
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11a 5825MHz

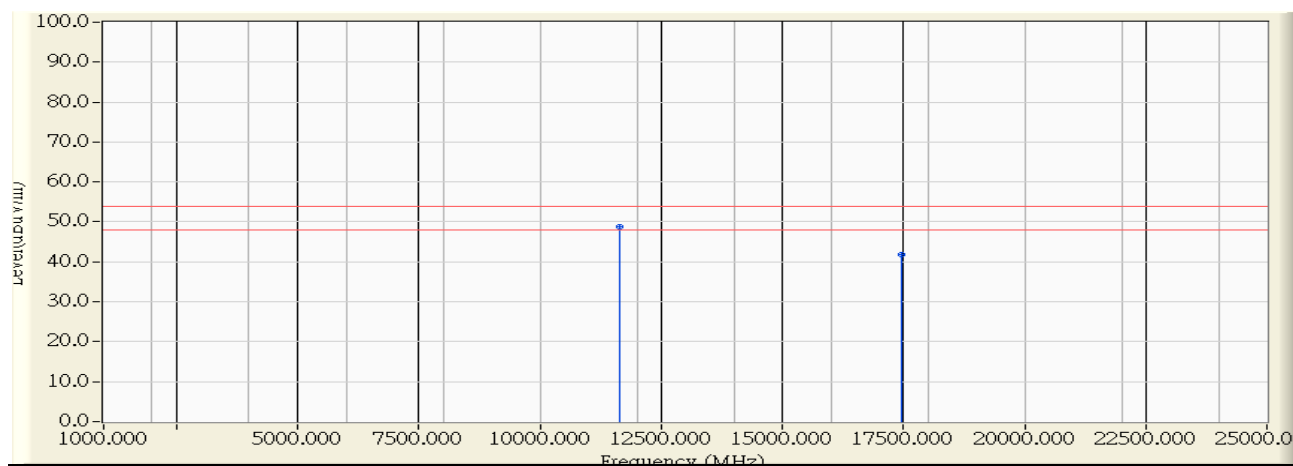


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11650.000	9.900	51.680	61.579	-12.421	74.000	PEAK
2		17475.000	14.432	41.050	55.482	-18.518	74.000	PEAK

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 : 2015/07/08 - 04:34
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11a 5825MHz

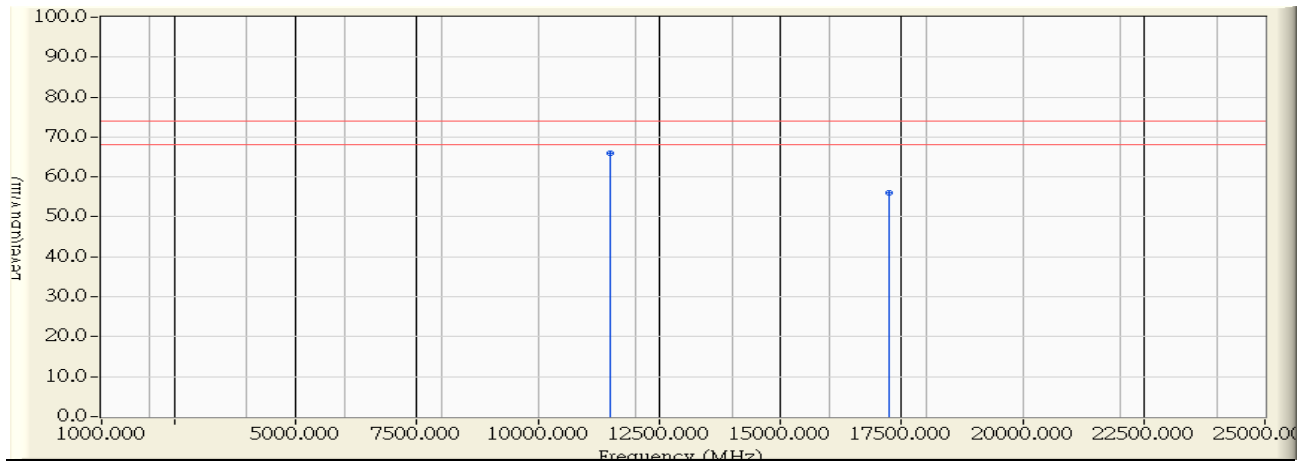


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11650.000	9.900	39.000	48.899	-5.101	54.000	AVERAGE
2		17475.000	14.432	27.490	41.922	-12.078	54.000	AVERAGE

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 : 2015/07/08 - 05:16
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11n(20M) 5745MHz

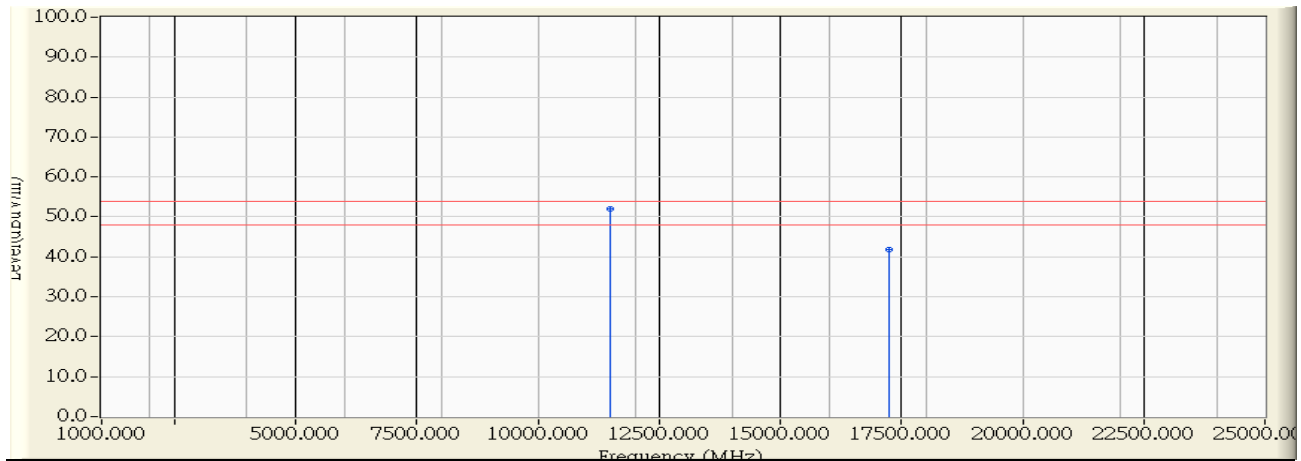


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11490.000	10.471	55.420	65.890	-8.110	74.000	PEAK
2		17235.000	13.130	42.990	56.121	-17.879	74.000	PEAK

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 : 2015/07/08 - 05:14
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11n(20M) 5745MHz

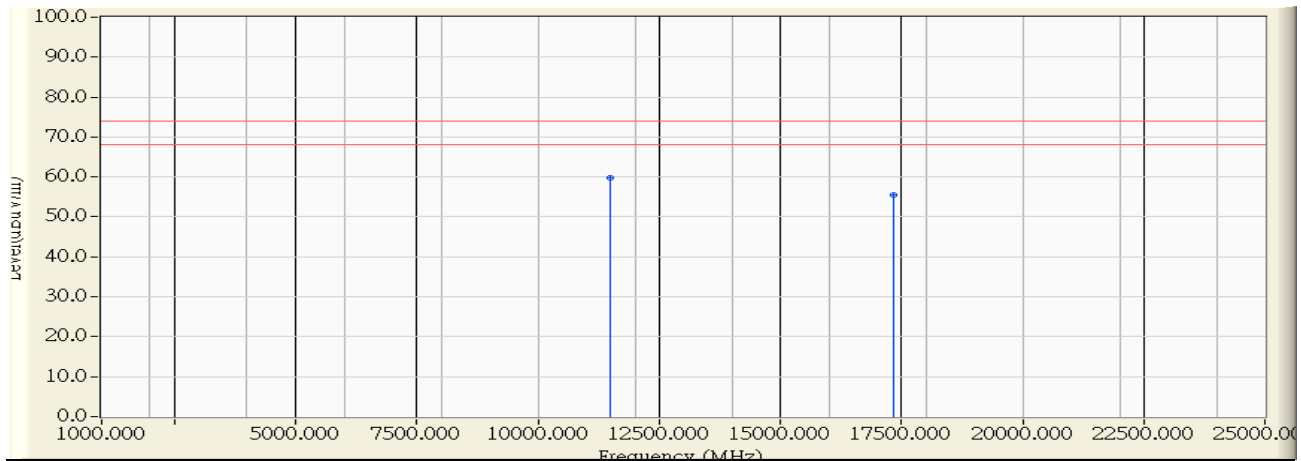


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11490.000	10.471	41.420	51.890	-2.110	54.000	AVERAGE
2		17235.000	13.130	28.680	41.811	-12.189	54.000	AVERAGE

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 : 2015/07/08 - 05:23
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11n(20M) 5745MHz

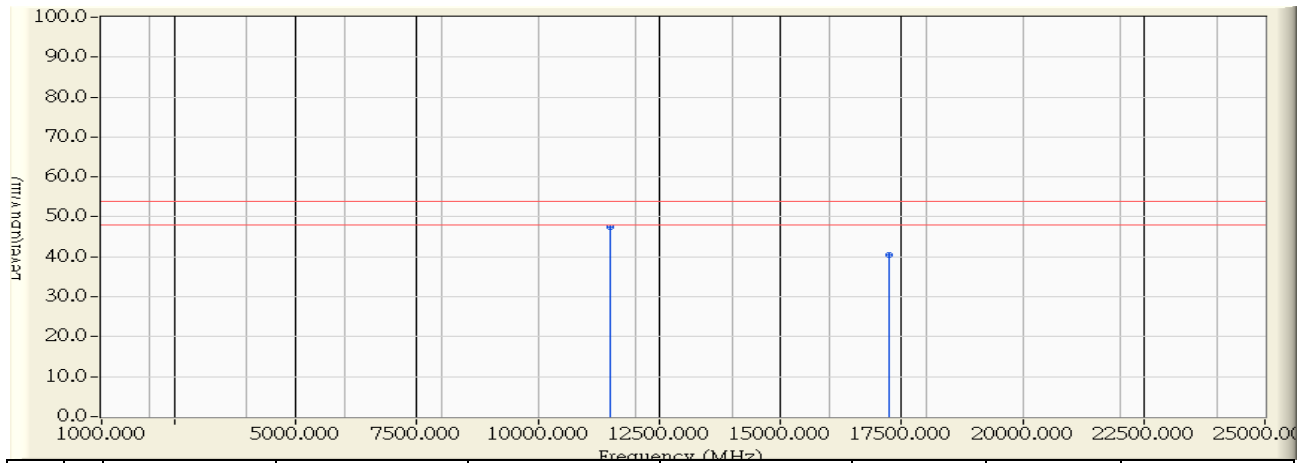


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11490.000	10.217	49.470	59.686	-14.314	74.000	PEAK
2		17325.000	13.616	41.760	55.377	-18.623	74.000	PEAK

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 : 2015/07/08 - 05:26
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11n(20M) 5745MHz

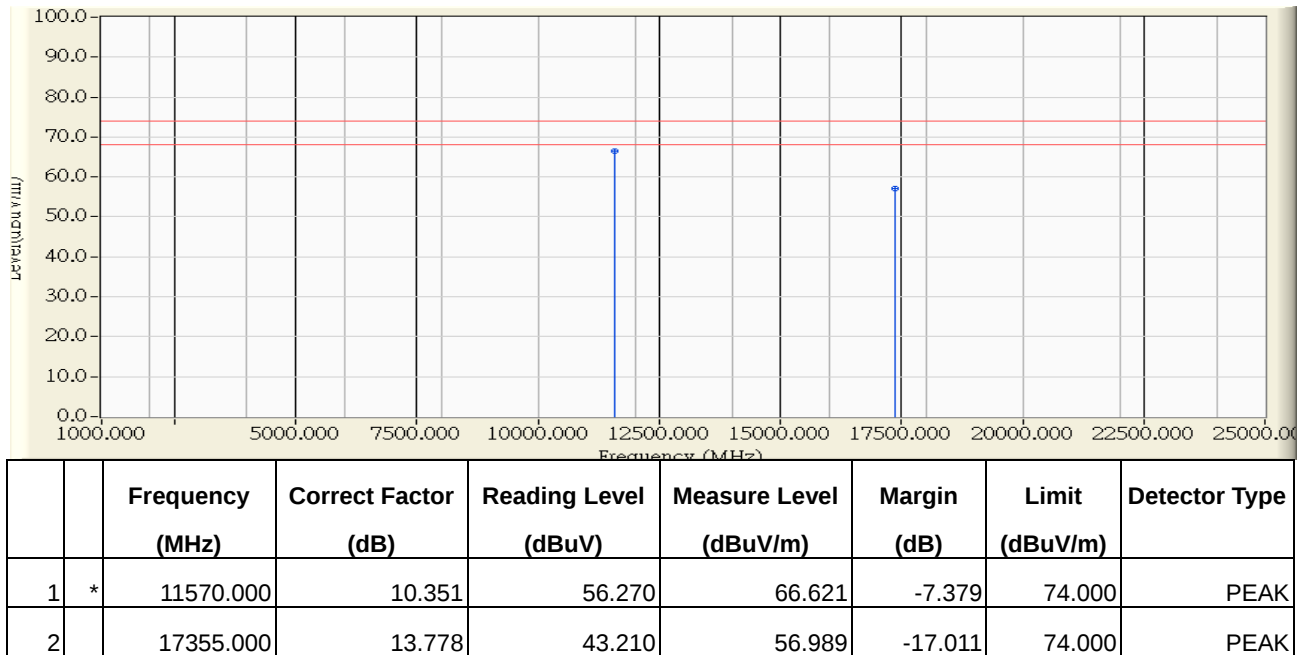


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11490.000	10.217	37.270	47.486	-6.514	54.000	AVERAGE
2		17235.000	13.130	27.460	40.591	-13.409	54.000	AVERAGE

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.

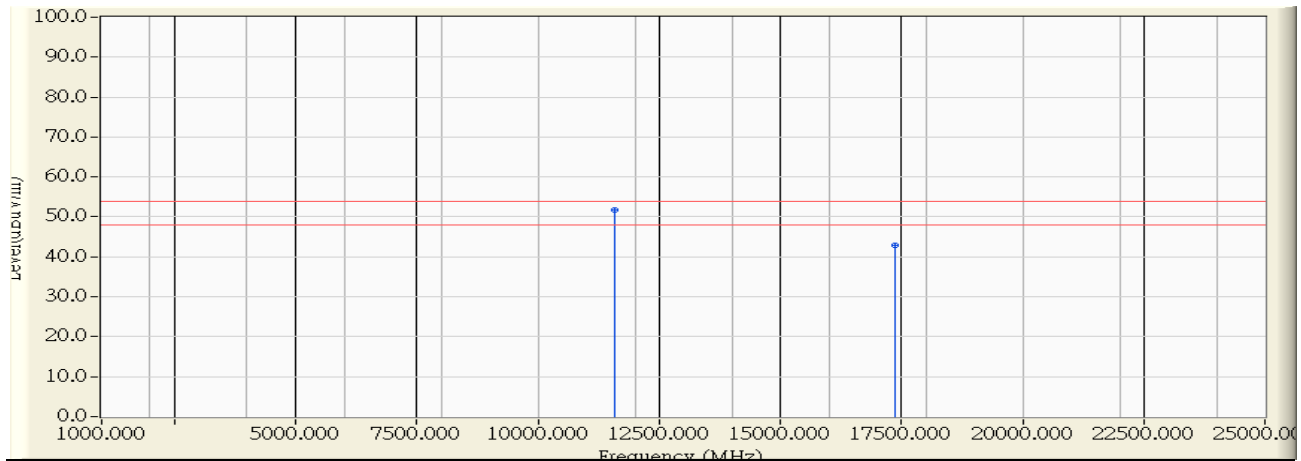
Site : CB1	Time : 2015/07/08 - 05:34
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11n(20M) 5785MHz



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 : 2015/07/08 - 05:32
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11n(20M) 5785MHz

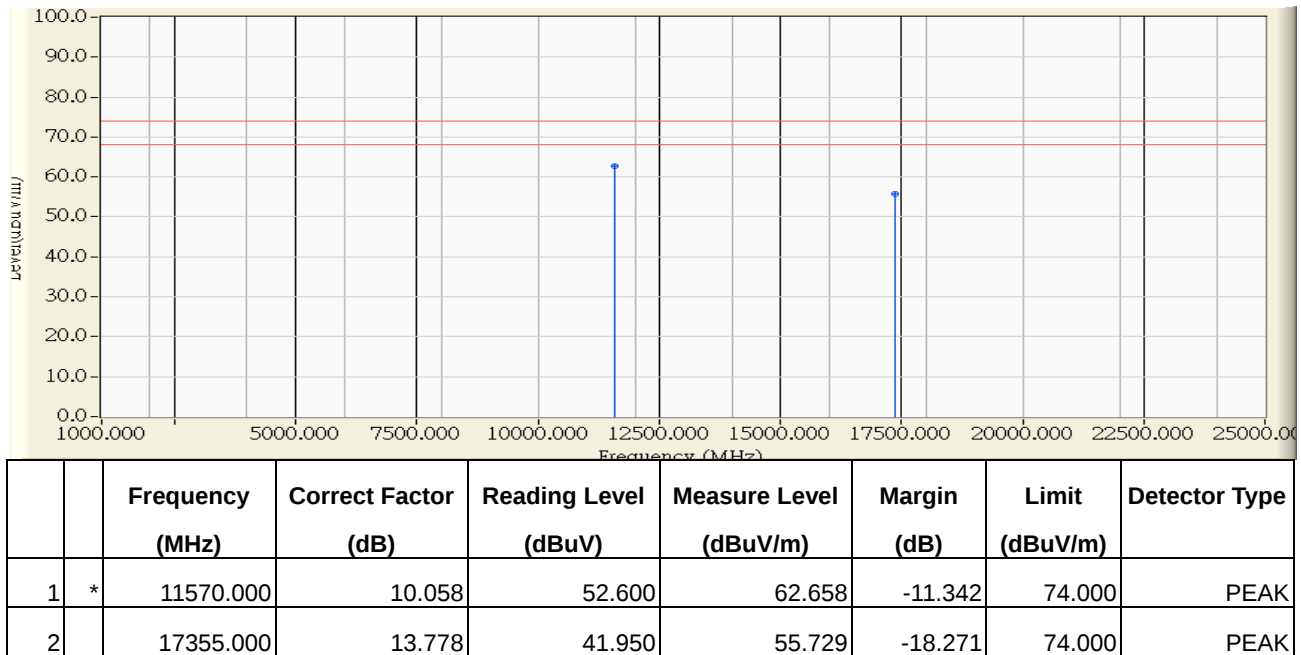


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11570.000	10.351	41.420	51.771	-2.229	54.000	AVERAGE
2		17355.000	13.778	29.230	43.009	-10.991	54.000	AVERAGE

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.

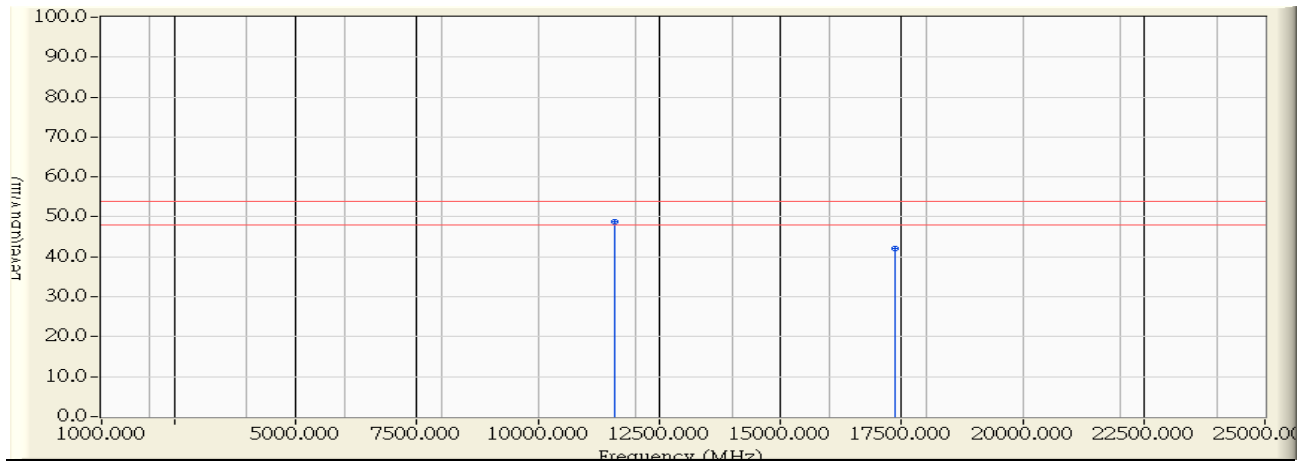
Site : CB1	Time : 2015/07/08 - 05:38
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11n(20M) 5785MHz



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 : 2015/07/08 - 05:41
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11n(20M) 5785MHz

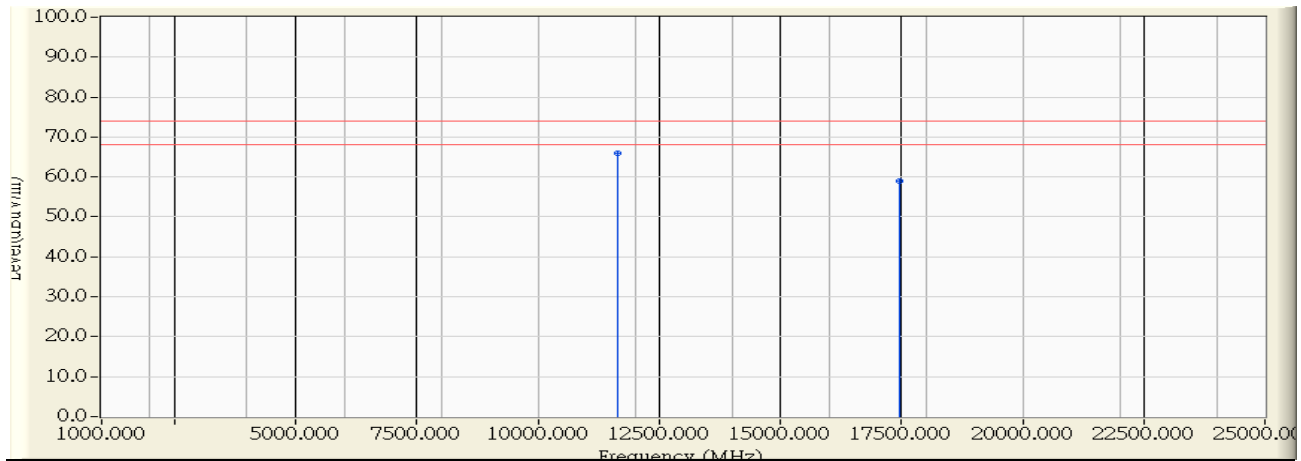


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11570.000	10.058	38.840	48.898	-5.102	54.000	AVERAGE
2		17355.000	13.778	28.190	41.969	-12.031	54.000	AVERAGE

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 : 2015/07/08 - 05:54
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11n(20M) 5825MHz

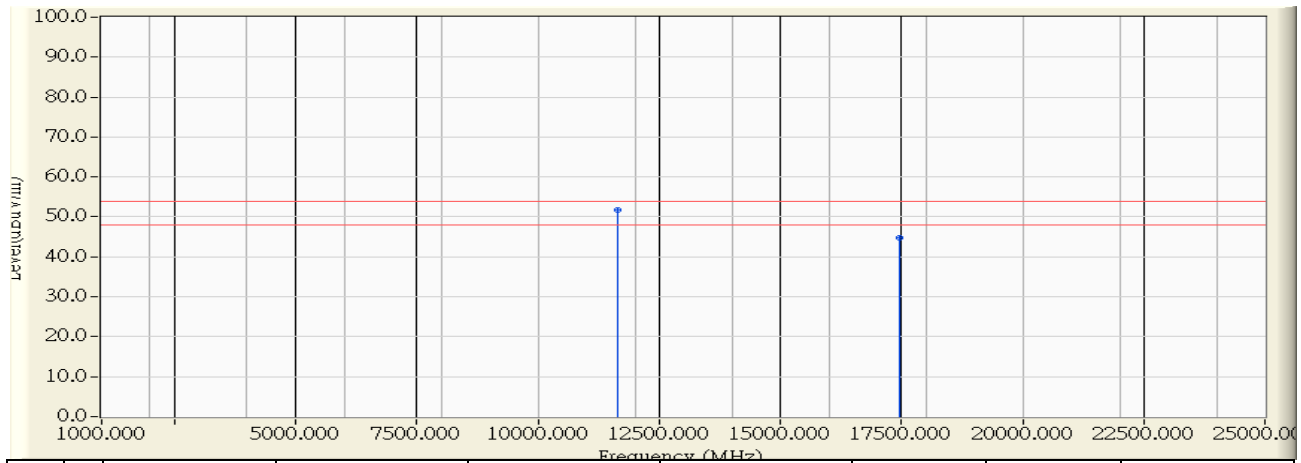


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11650.000	10.234	55.840	66.073	-7.927	74.000	PEAK
2		17475.000	14.432	44.420	58.852	-15.148	74.000	PEAK

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 : 2015/07/08 - 05:49
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11n(20M) 5825MHz

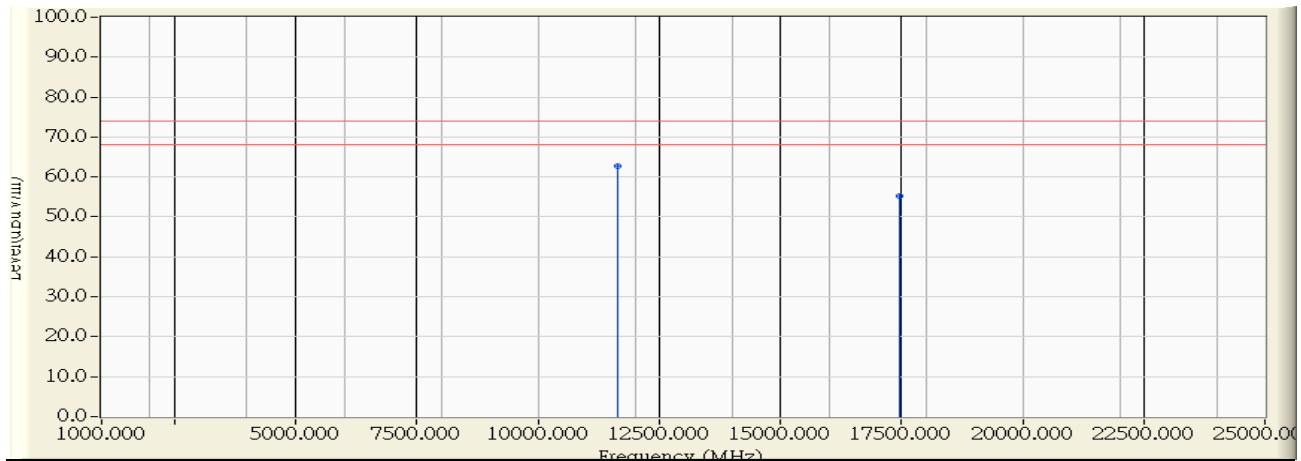


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11650.000	10.234	41.450	51.683	-2.317	54.000	AVERAGE
2		17475.000	14.432	30.320	44.752	-9.248	54.000	AVERAGE

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 : 2015/07/08 - 05:56
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11n(20M) 5825MHz

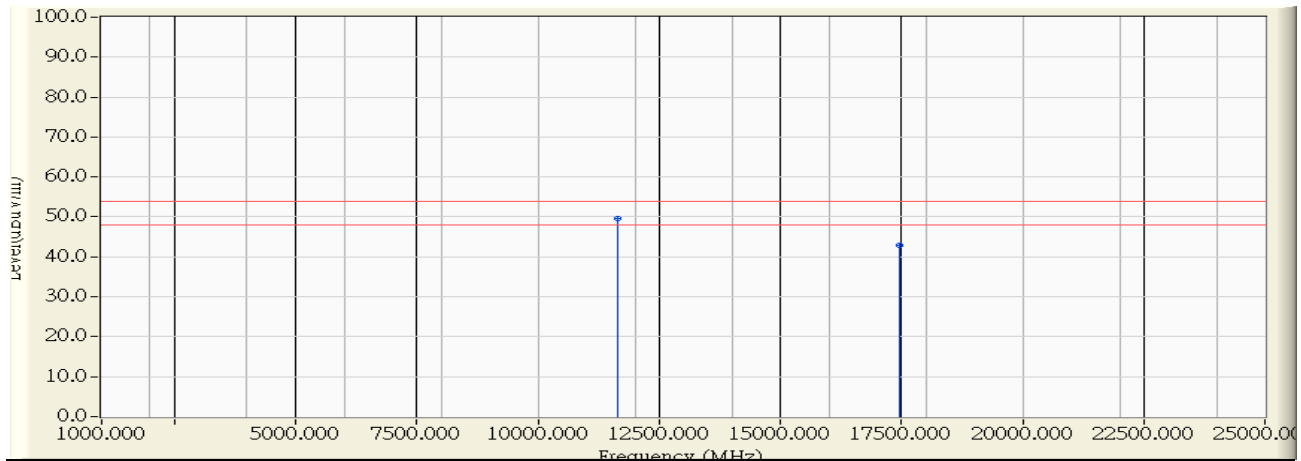


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11650.000	9.900	52.860	62.759	-11.241	74.000	PEAK
2		17475.000	14.432	40.870	55.302	-18.698	74.000	PEAK

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 : 2015/07/08 - 05:59
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11n(20M) 5825MHz

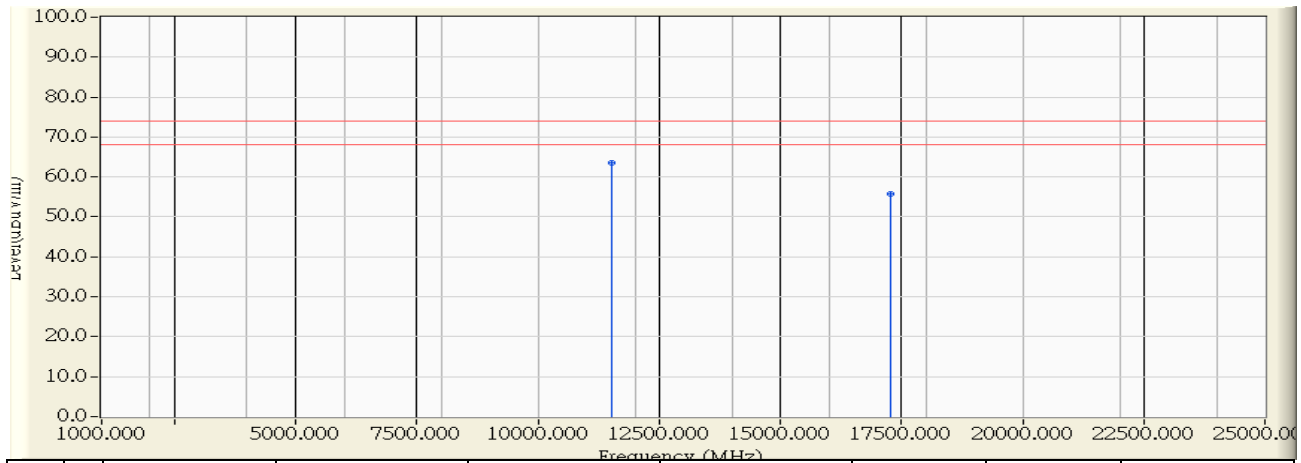


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11650.000	9.900	39.610	49.509	-4.491	54.000	AVERAGE
2		17475.000	14.432	28.390	42.822	-11.178	54.000	AVERAGE

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 : 2015/07/08 - 06:09
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11n(40M) 5755MHz

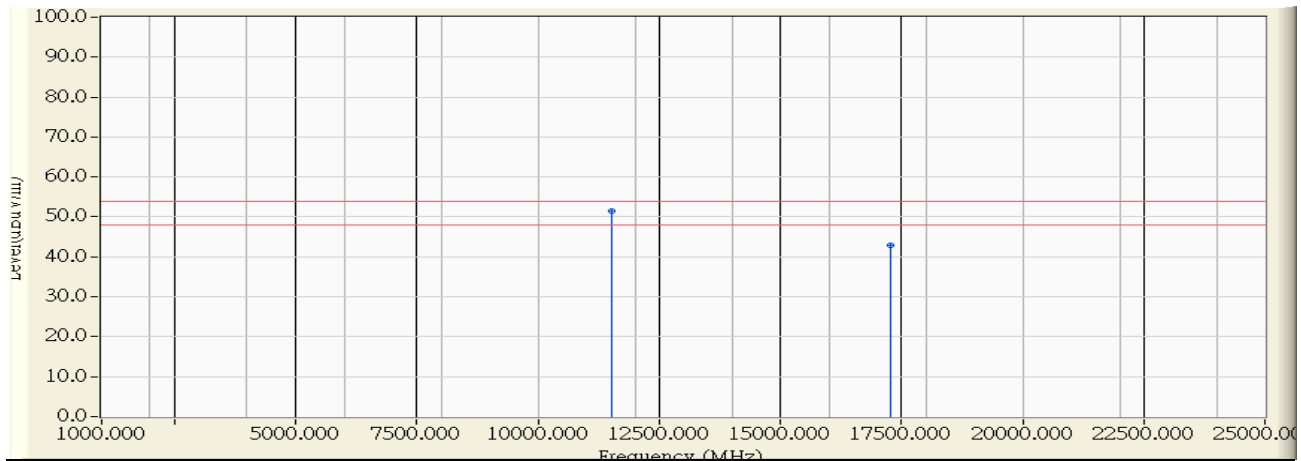


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11510.000	10.440	53.080	63.520	-10.480	74.000	PEAK
2		17265.000	13.292	42.500	55.793	-18.207	74.000	PEAK

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 : 2015/07/08 - 06:07
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11n(40M) 5755MHz

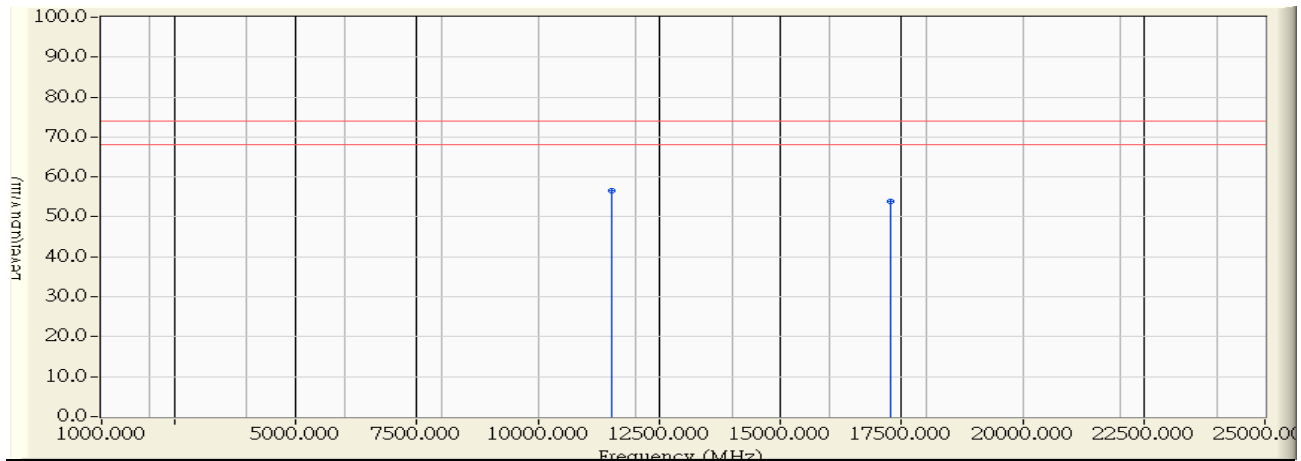


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11510.000	10.440	41.030	51.470	-2.530	54.000	AVERAGE
2		17265.000	13.292	29.690	42.983	-11.017	54.000	AVERAGE

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 : 2015/07/08 - 06:14
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11n(40M) 5755MHz

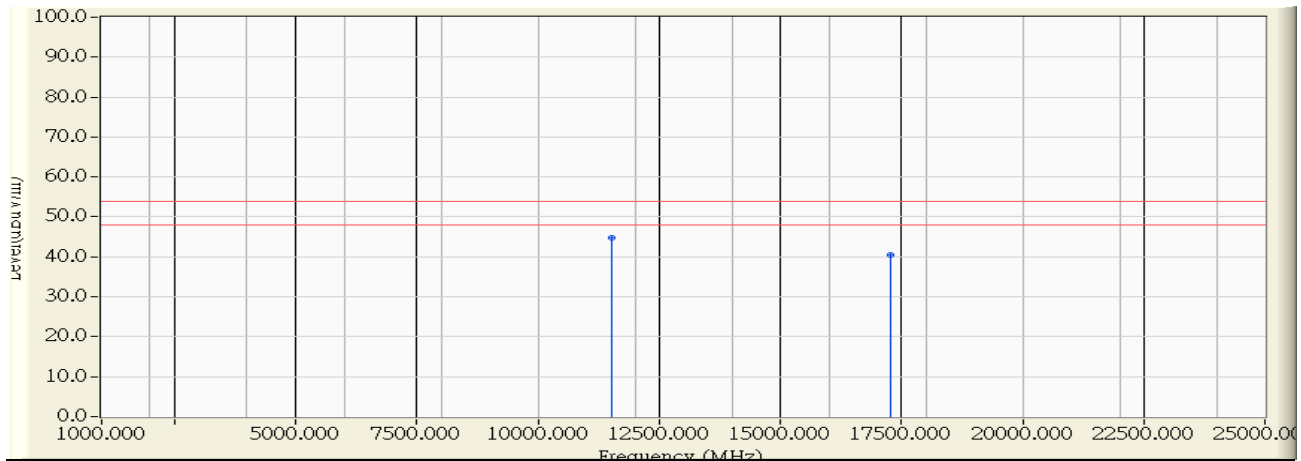


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11510.000	10.177	46.510	56.687	-17.313	74.000	PEAK
2		17265.000	13.292	40.660	53.953	-20.047	74.000	PEAK

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 : 2015/07/08 - 06:16
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11n(40M) 5755MHz

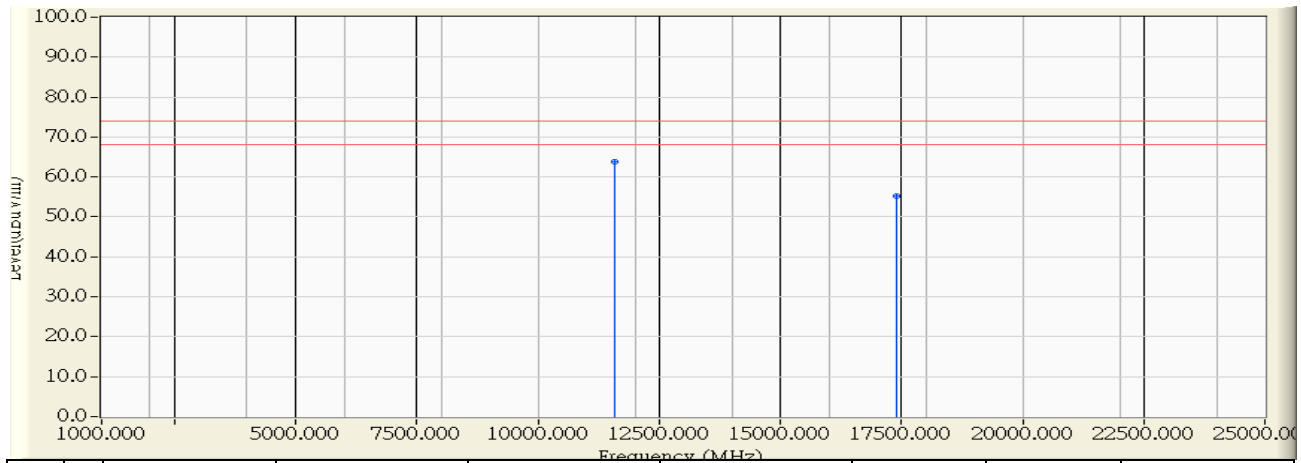


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11510.000	10.177	34.680	44.857	-9.143	54.000	AVERAGE
2		17265.000	13.292	27.290	40.583	-13.417	54.000	AVERAGE

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 : 2015/07/08 - 06:23
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11n(40M) 5795MHz

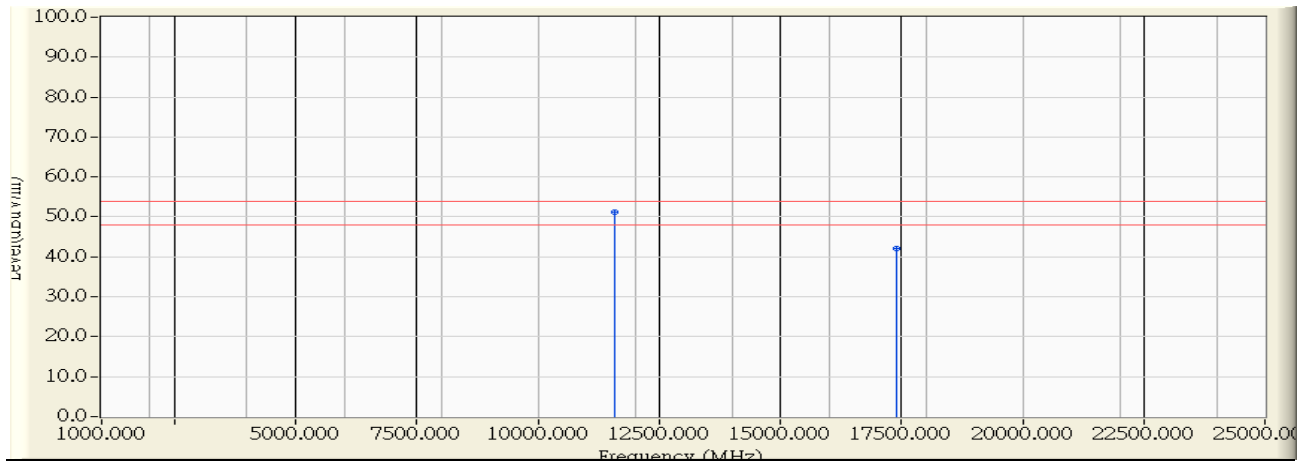


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11590.000	10.323	53.360	63.682	-10.318	74.000	PEAK
2		17385.000	13.940	41.220	55.161	-18.839	74.000	PEAK

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 : 2015/07/08 - 06:21
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11n(40M) 5795MHz

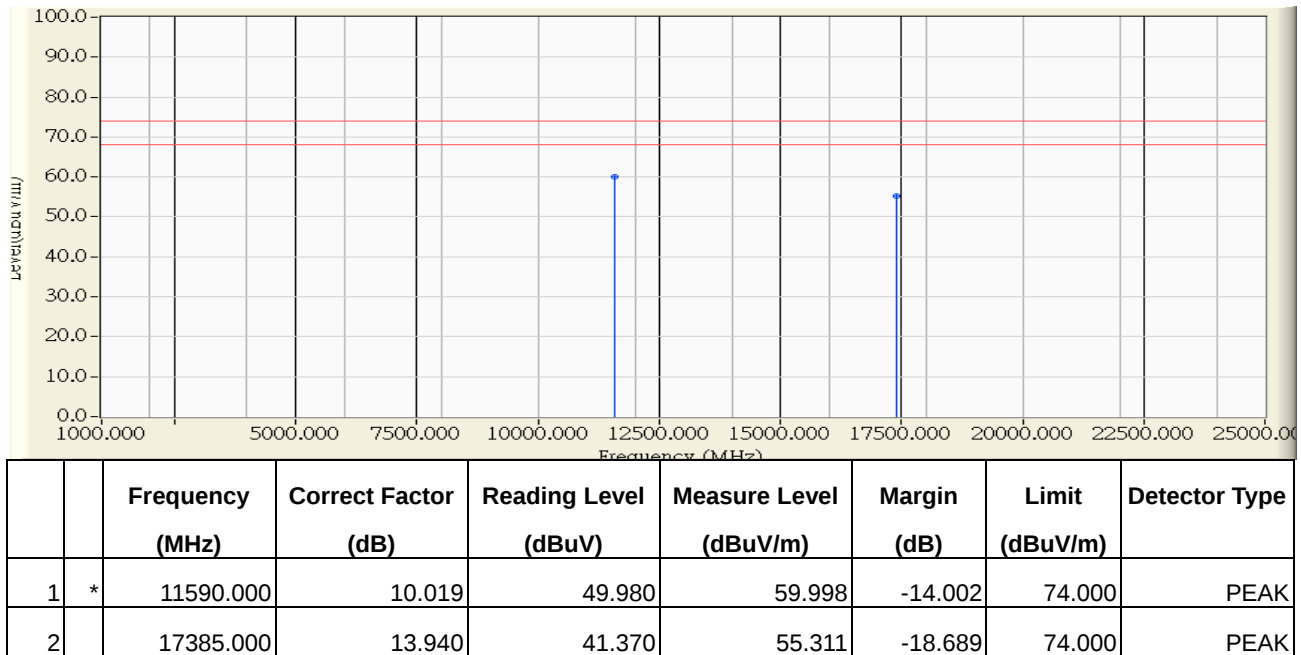


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11590.000	10.323	40.790	51.112	-2.888	54.000	AVERAGE
2		17385.000	13.940	28.060	42.001	-11.999	54.000	AVERAGE

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.

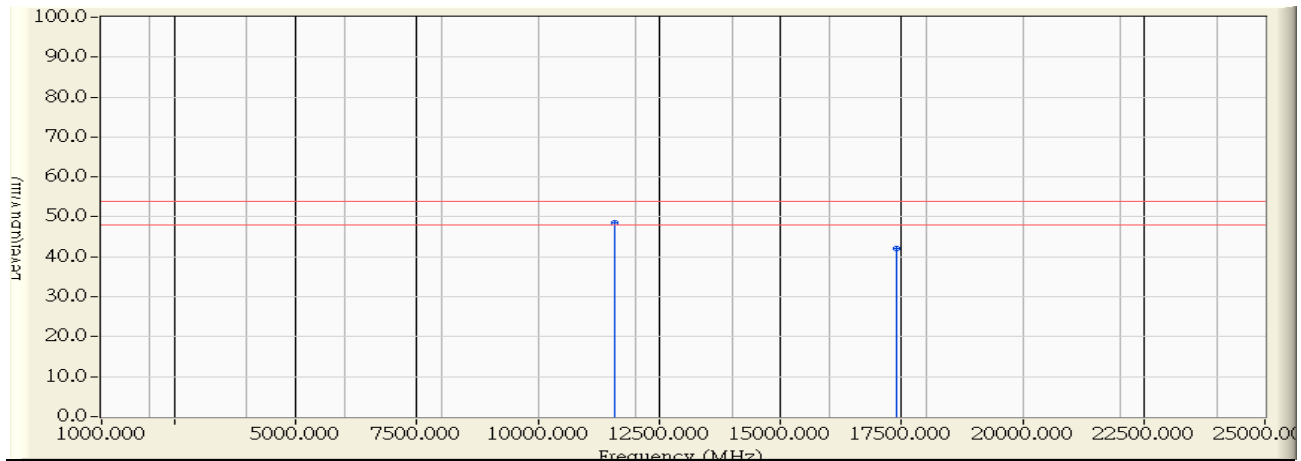
Site : CB1	Time : 2015/07/08 - 06:25
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11n(40M) 5795MHz



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 : 2015/07/08 - 06:27
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11n(40M) 5795MHz

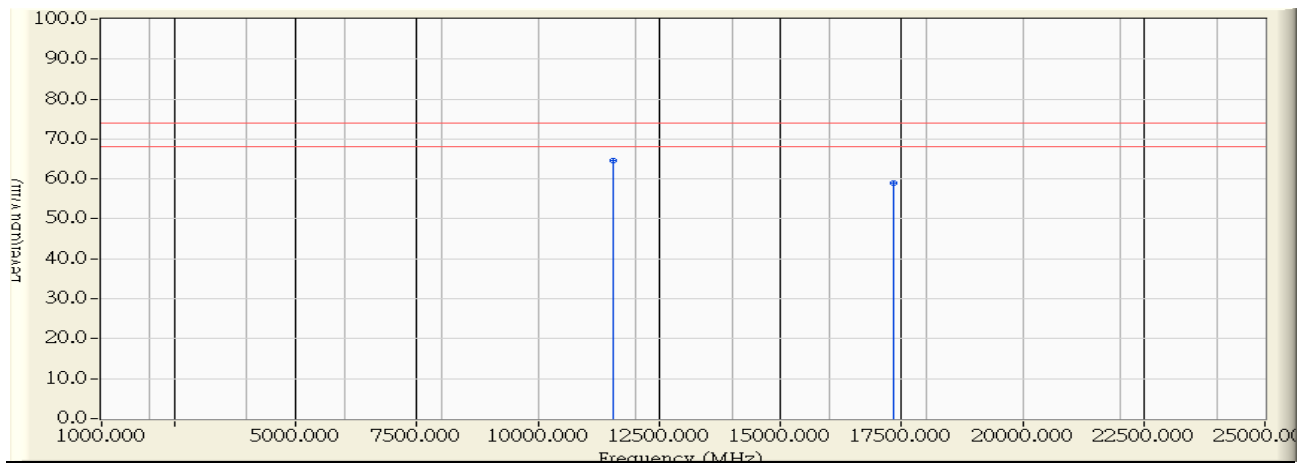


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11590.000	10.019	38.610	48.628	-5.372	54.000	AVERAGE
2		17385.000	13.940	28.040	41.981	-12.019	54.000	AVERAGE

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 : 2015/07/08 - 06:32
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11ac(80M) 5775MHz

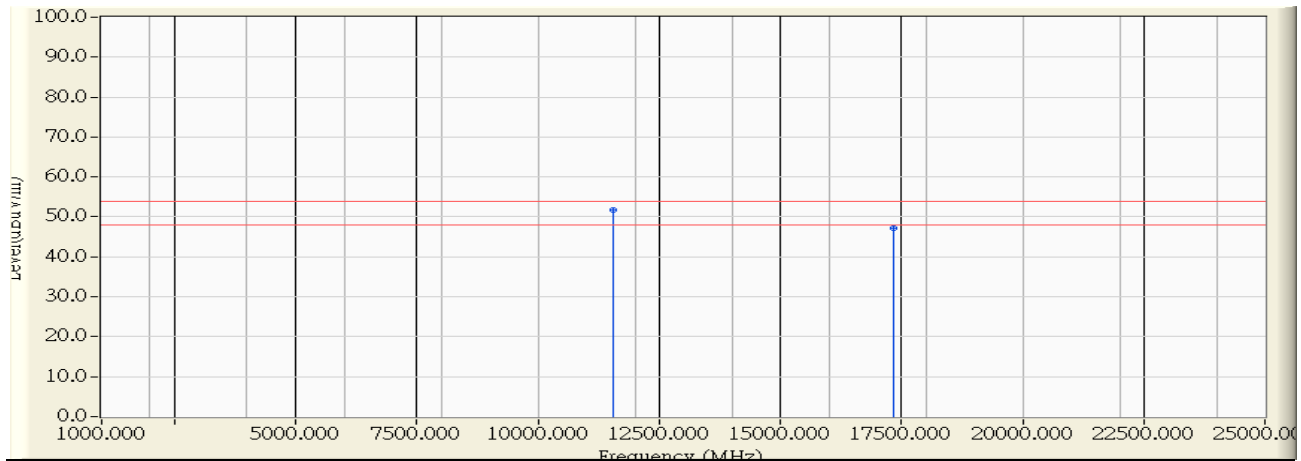


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11550.000	10.382	54.120	64.501	-9.499	74.000	PEAK
2		17325.000	13.616	45.270	58.887	-15.113	74.000	PEAK

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 : 2015/07/08 - 06:31
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11ac(80M) 5775MHz

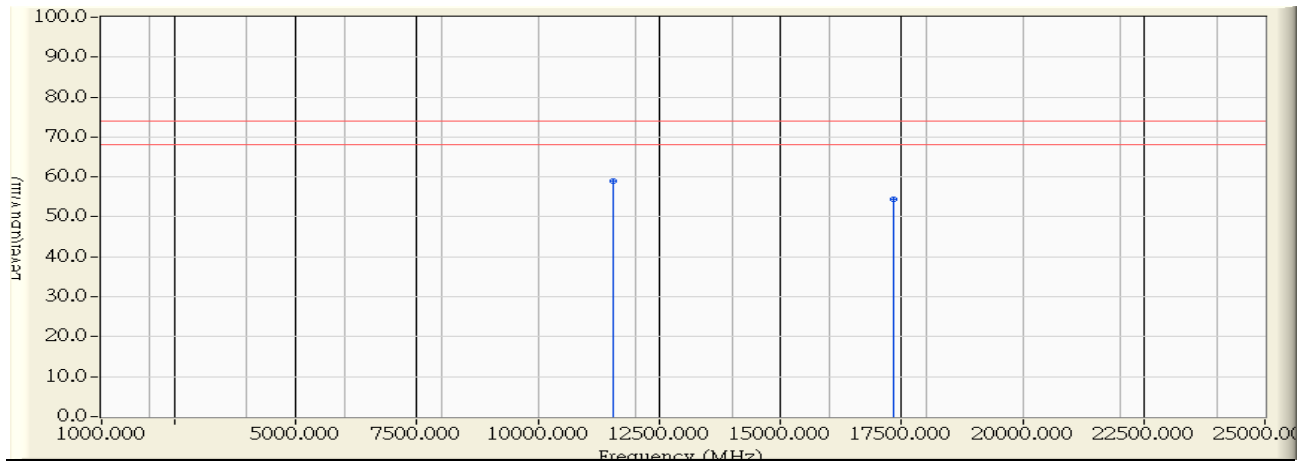


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11550.000	10.382	41.390	51.771	-2.229	54.000	AVERAGE
2		17325.000	13.616	33.570	47.187	-6.813	54.000	AVERAGE

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 : 2015/07/08 - 06:37
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11ac(80M) 5775MHz

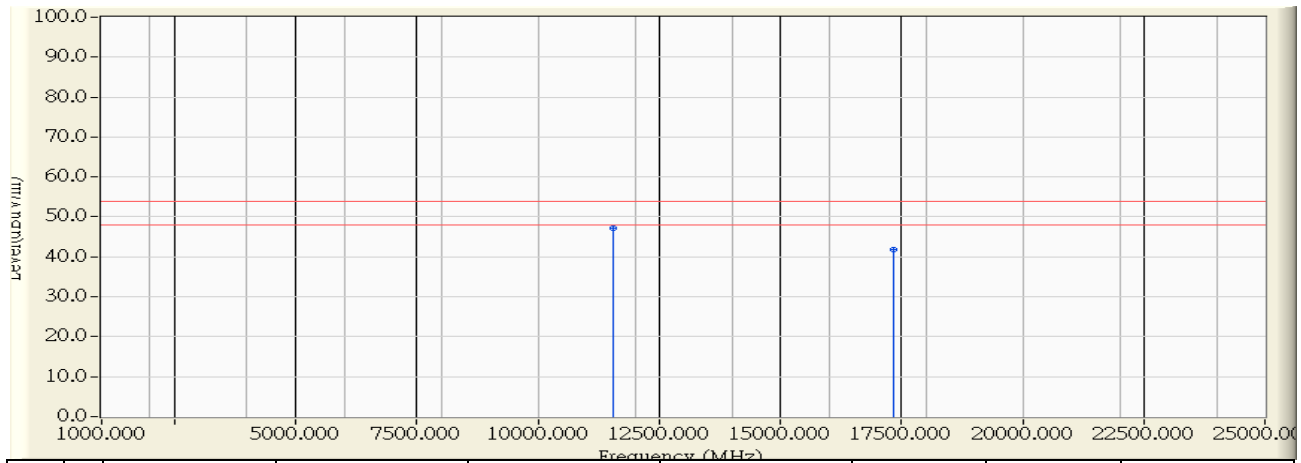


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11550.000	10.098	48.940	59.037	-14.963	74.000	PEAK
2		17325.000	13.616	40.840	54.457	-19.543	74.000	PEAK

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 : 2015/07/08 - 06:41
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V / 60Hz
EUT : Dual-band Wireless Range Extender	Note : Mode 1: Transmit_CDD Mode_AD890326 802.11ac(80M) 5775MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11550.000	10.098	36.990	47.087	-6.913	54.000	AVERAGE
2		17325.000	13.616	28.340	41.957	-12.043	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.

5. RF antenna conducted test

5.1. Test Equipment

The following test equipments are used during the test:

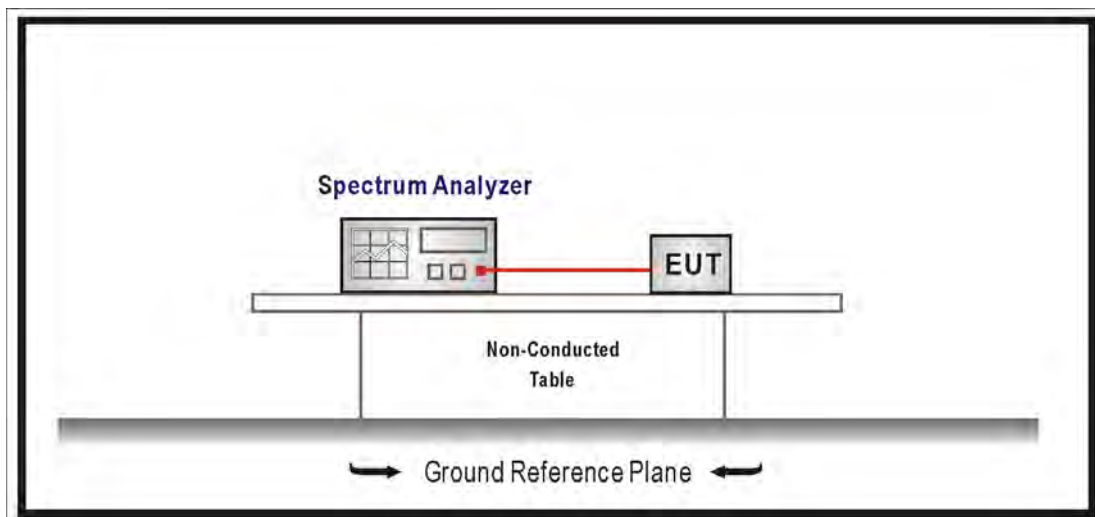
RF antenna conducted test / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2016/08/23

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

5.2. Test Setup

RF Antenna Conducted Measurement:



5.3. Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on an RF conducted or radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.4. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure section 11.2 of KDB558074 v03r02 for compliance to FCC 47CFR 15.247 requirements. Set RBW = 100 kHz, Set VBW> RBW, scan up through 10th harmonic.

5.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2014

5.6. Uncertainty

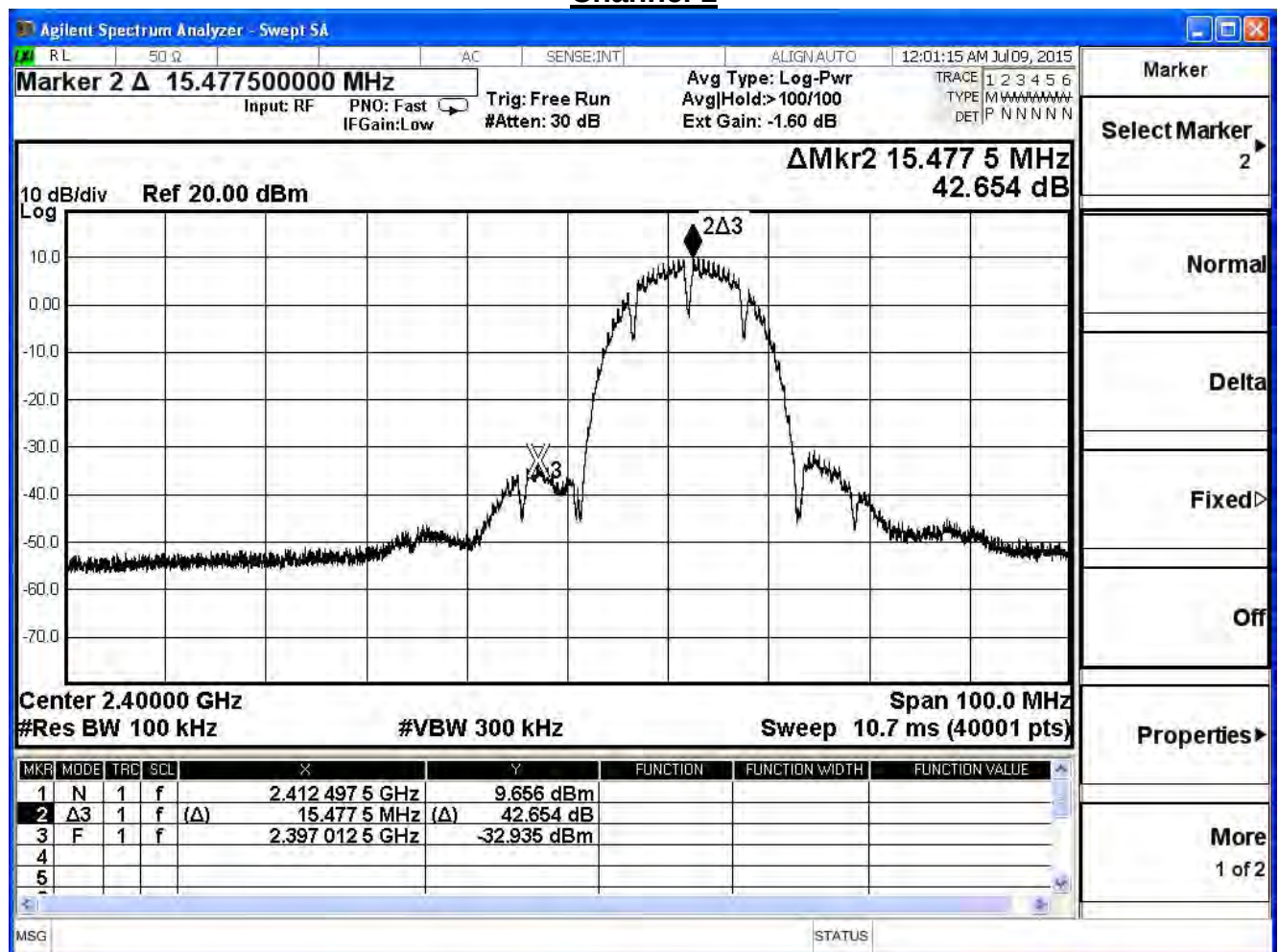
Conducted is defined as $\pm 1.27\text{dB}$

5.7. Test Result

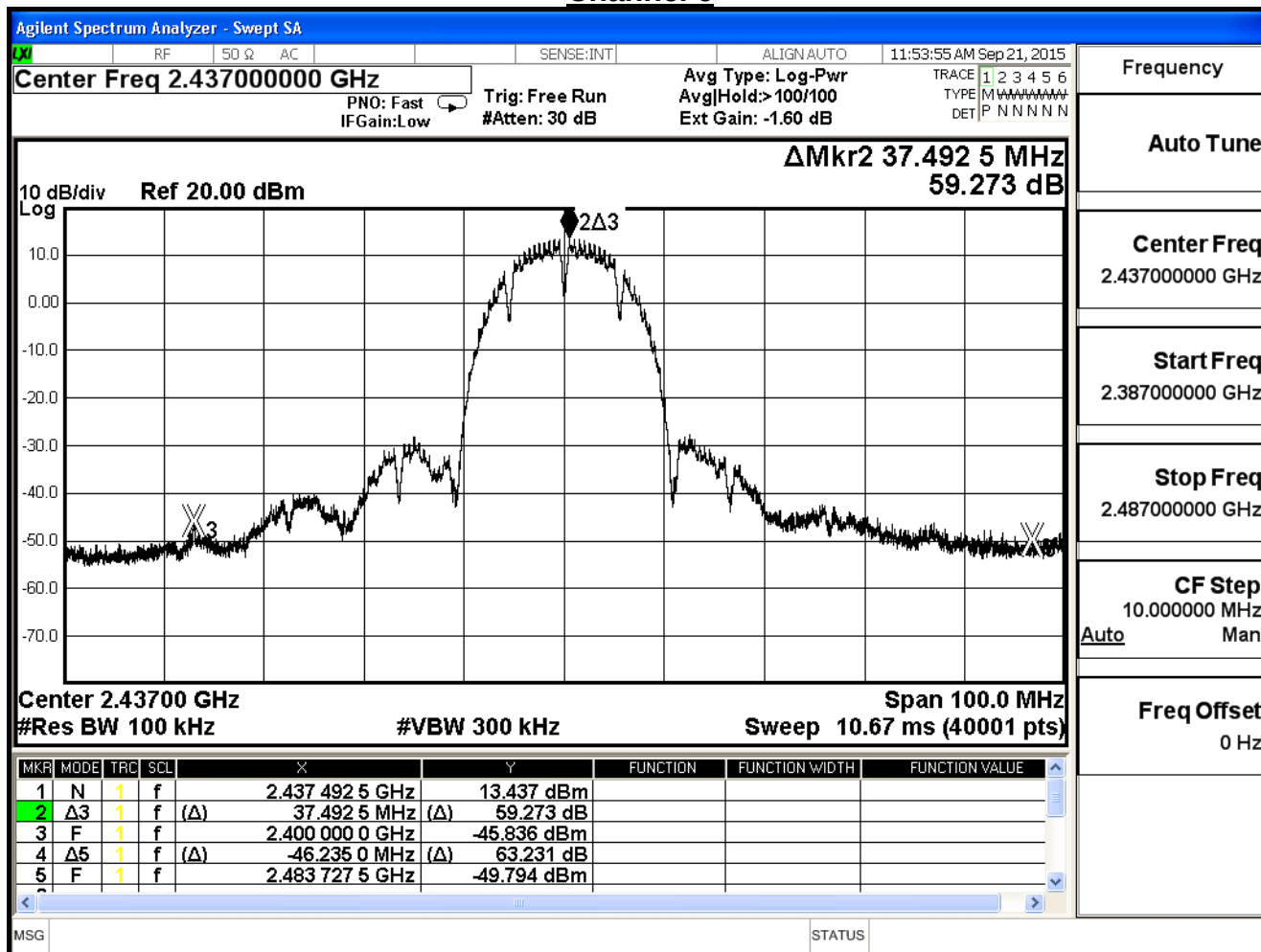
Product	Dual-band Wireless Range Extender		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD Mode_AD890326		
Date of Test	2015/09/21	Test Site	SR7

IEEE 802.11b (ANT 0), Antenna Gain: 3.57dBi				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	42.654	≥ 30	Pass
6	2437	59.273	≥ 30	Pass
11	2462	53.981	≥ 30	Pass

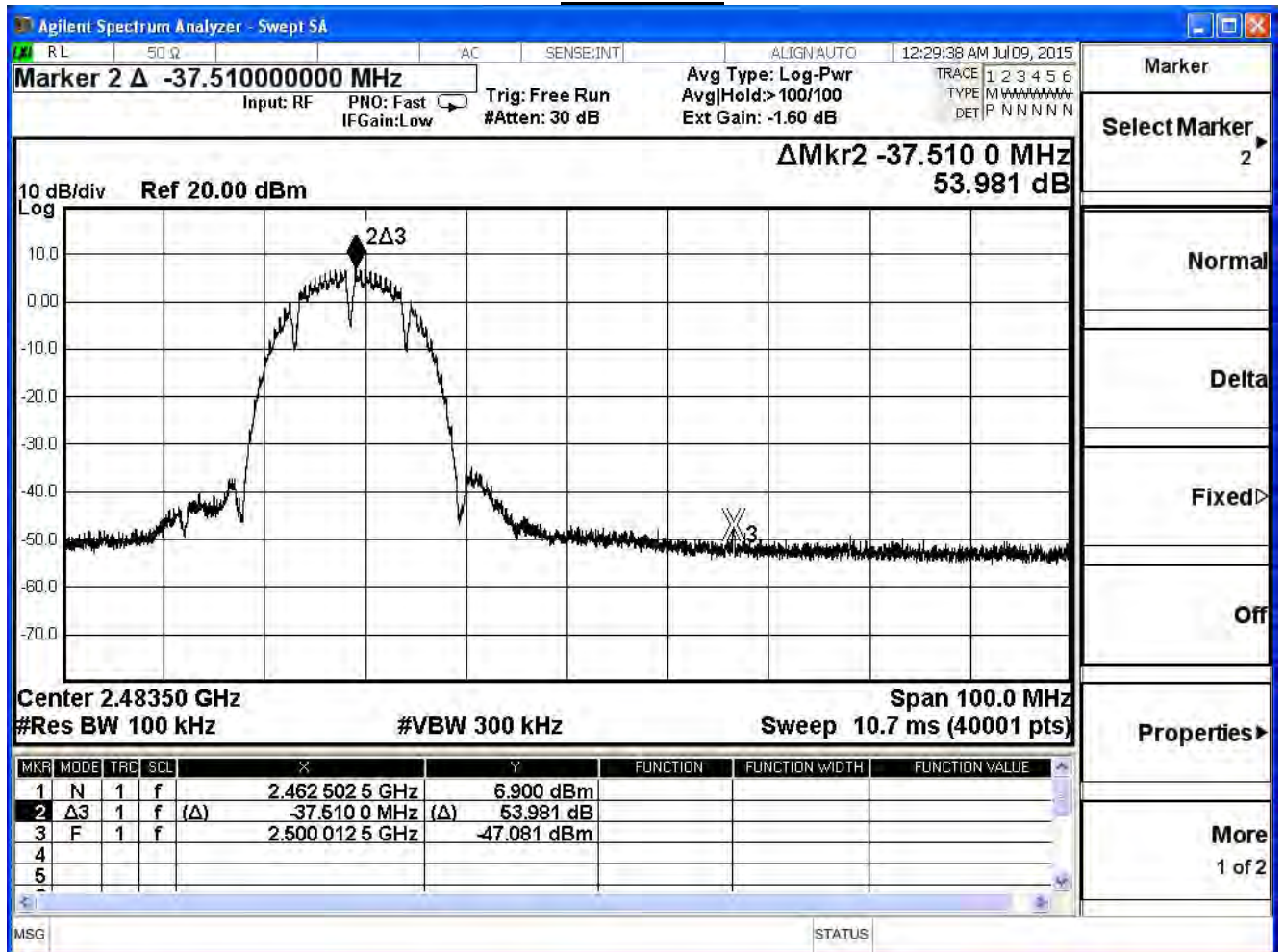
Channel 1



Channel 6



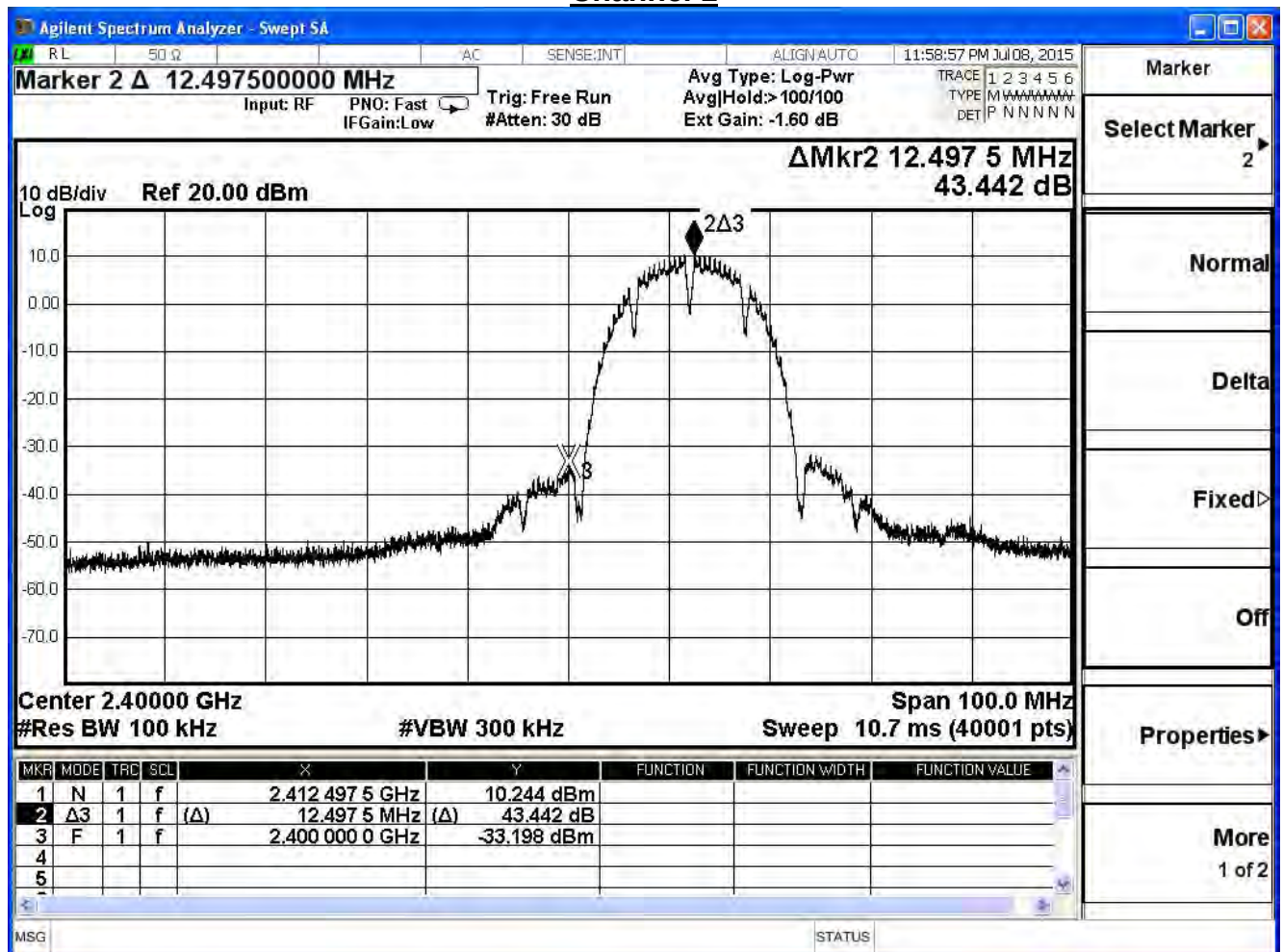
Channel 11



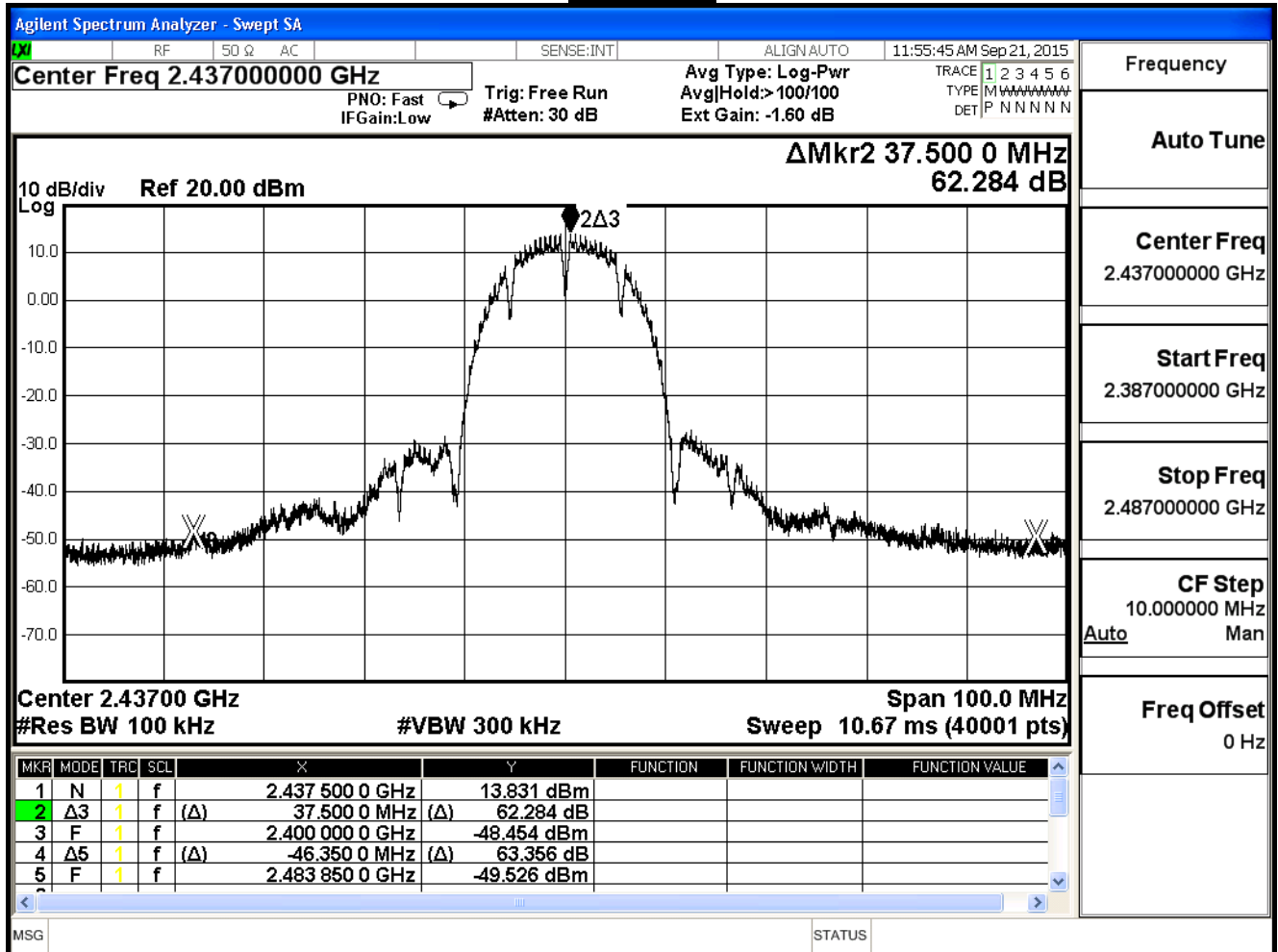
Product	Dual-band Wireless Range Extender		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD Mode_AD890326		
Date of Test	2015/09/21	Test Site	SR7

IEEE 802.11b (ANT 1), Antenna Gain: 3.31dBi				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	43.442	≥ 30	Pass
6	2437	62.284	≥ 30	Pass
11	2462	52.588	≥ 30	Pass

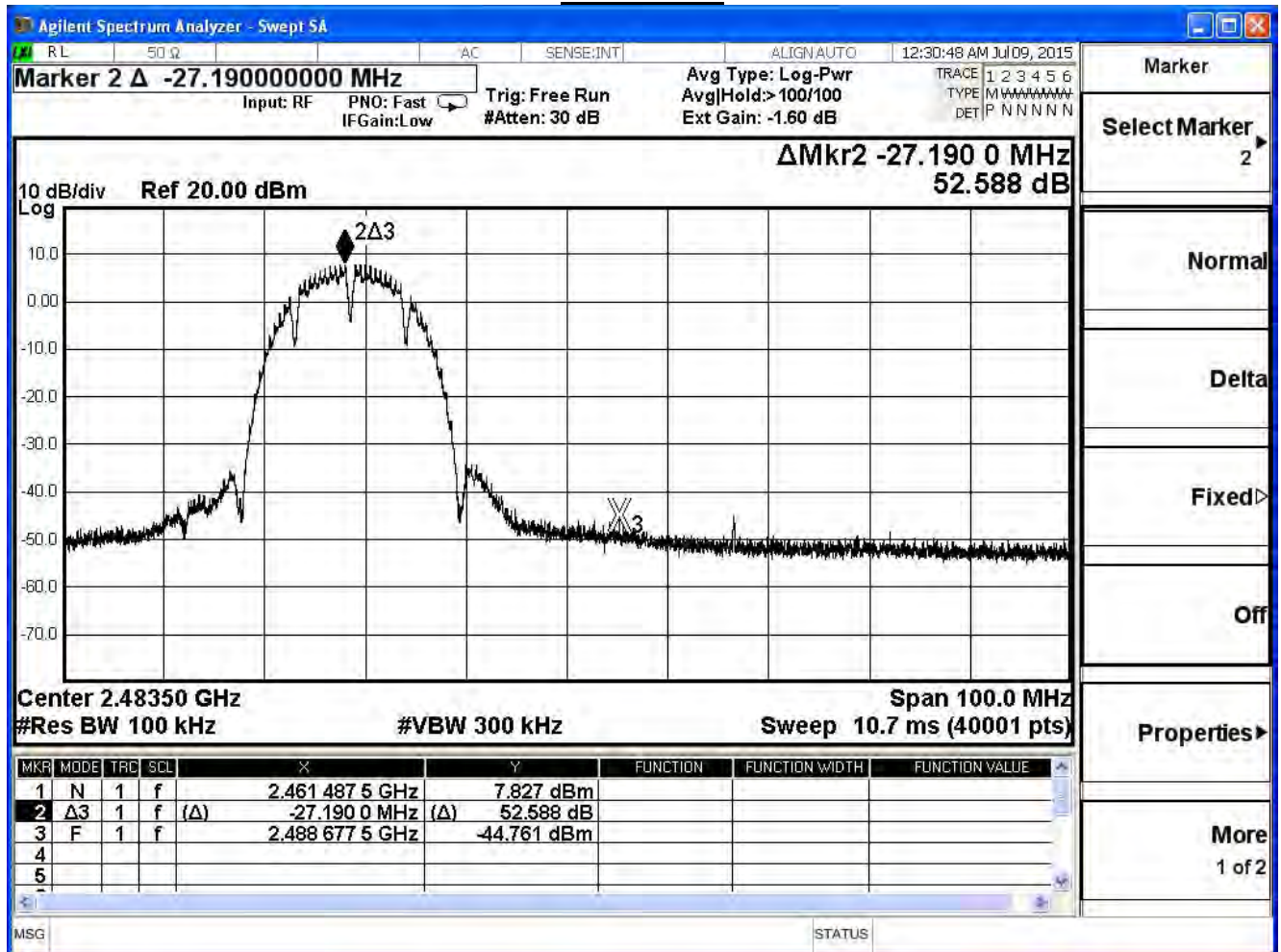
Channel 1



Channel 6



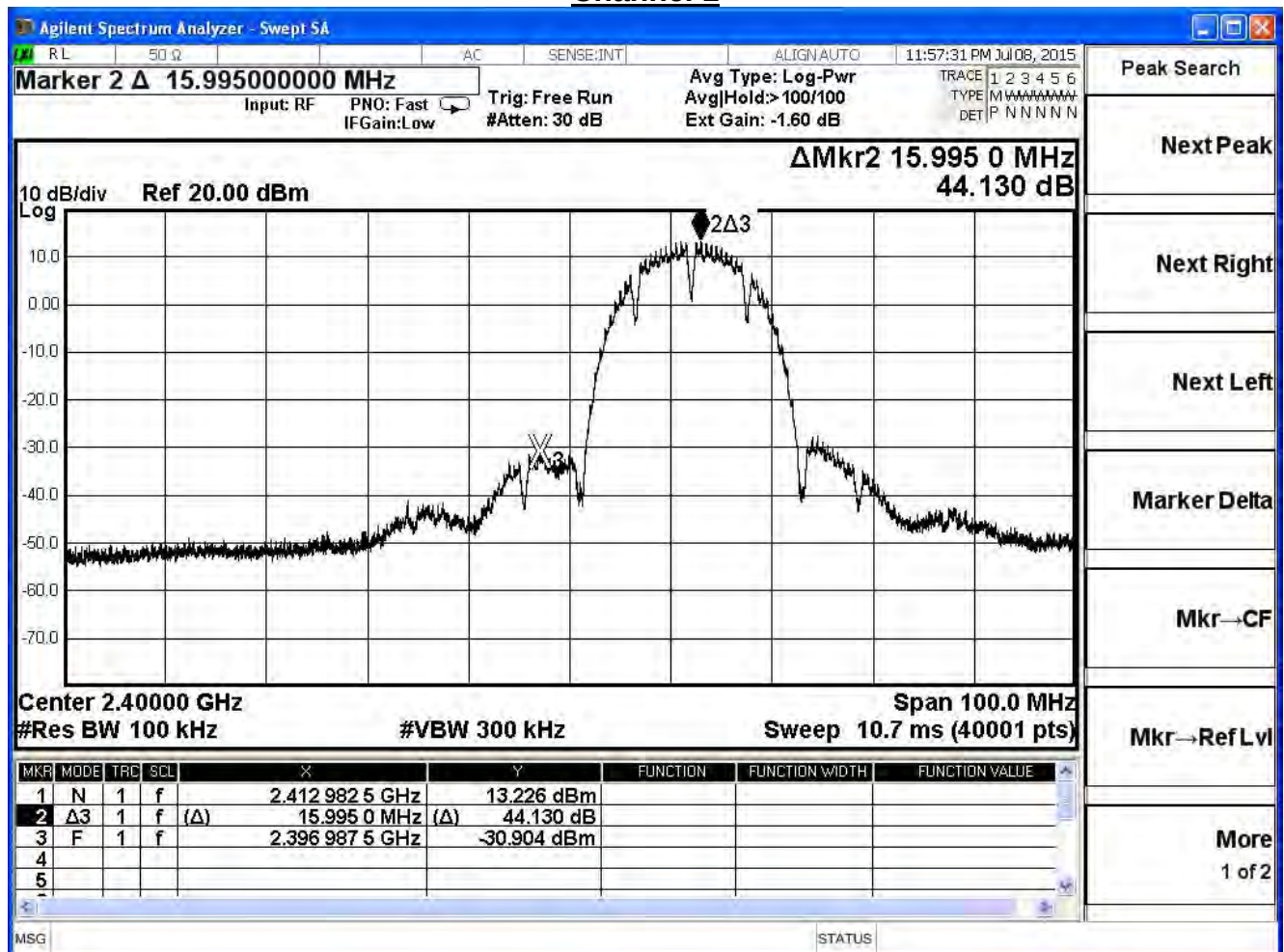
Channel 11



Product	Dual-band Wireless Range Extender		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD Mode_AD890326		
Date of Test	2015/09/21	Test Site	SR7

IEEE 802.11b (ANT 2), Antenna Gain: 2.99dBi				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	44.130	≥ 30	Pass
6	2437	57.726	≥ 30	Pass
11	2462	53.601	≥ 30	Pass

Channel 1



Agilent Spectrum Analyzer - Swept SA

RF 50 Ω AC SENSE:INT ALIGN AUTO 11:25:39 AM Sep 21, 2015

Marker 2 Δ 35.482500000 MHz

PNO: Fast IFGain:Low Trig: Free Run #Atten: 30 dB Avg Type: Log-Pwr Avg/Hold: > 100/100 Ext Gain: -1.60 dB

TRACE 1 2 3 4 5 6 TYPE M M M M M M M DET P N N N N N N

**ΔMkr2 35.482 5 MHz
57.726 dB**

10 dB/div Ref 20.00 dBm

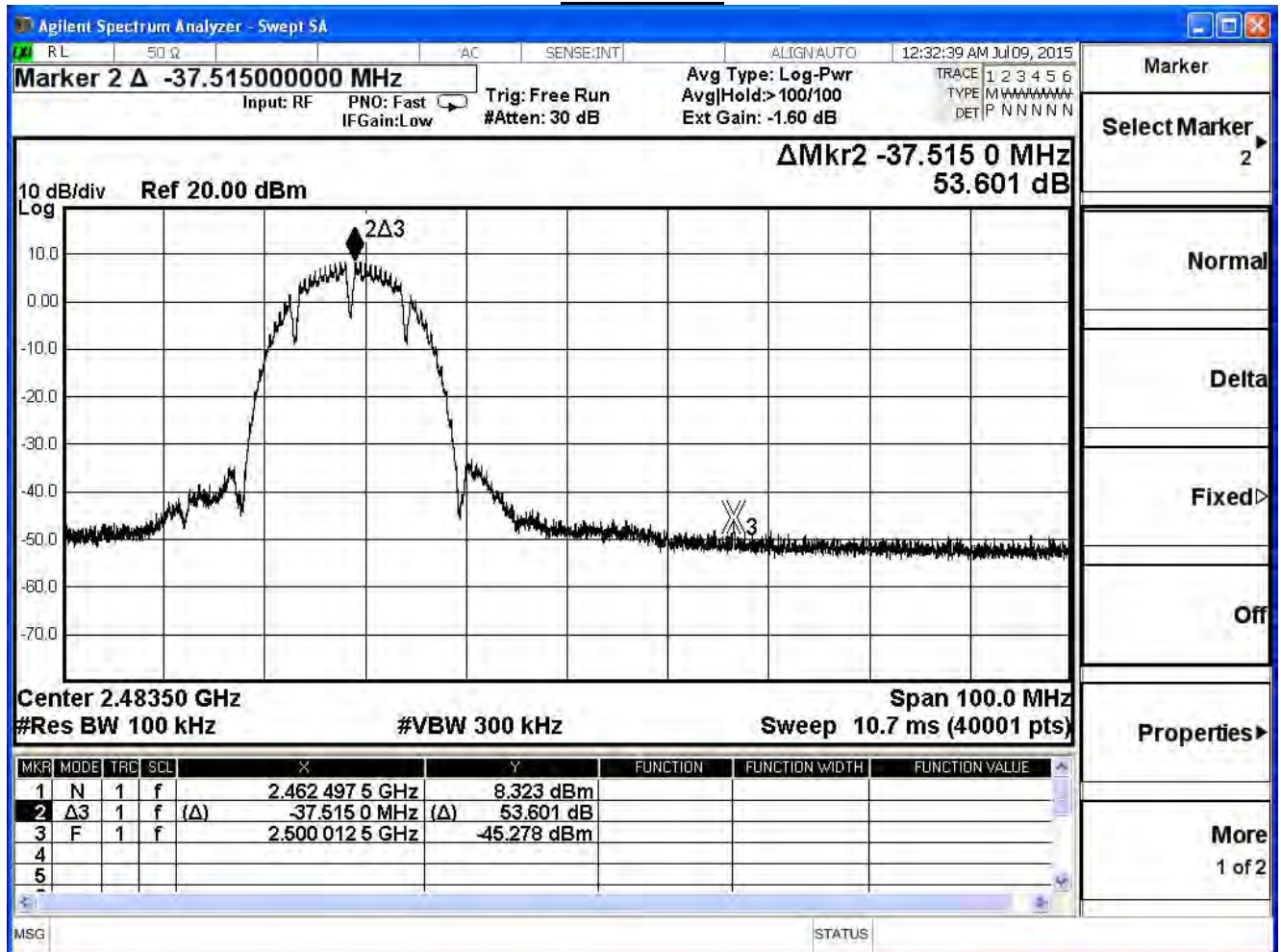
The plot shows a spectrum with a central peak at 35.4825 GHz. The y-axis represents power in dBm, ranging from -70.0 to 10.0. The x-axis represents frequency in GHz, ranging from approximately 2.43 to 2.48. A marker labeled '2' is placed on the main peak.

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.435 482 5 GHz	14.372 dBm			
2	Δ3	1	f (Δ)	35.482 5 MHz	57.726 dB			
3	F	1	f	2.400 000 0 GHz	-43.354 dBm			
4	Δ5	1	f (Δ)	-48.517 5 MHz	63.256 dB			
5	F	1	f	2.484 000 0 GHz	-48.884 dBm			

Center 2.43700 GHz Span 100.0 MHz
#Res BW 100 kHz #VBW 300 kHz Sweep 10.67 ms (40001 pts)

MSG STATUS

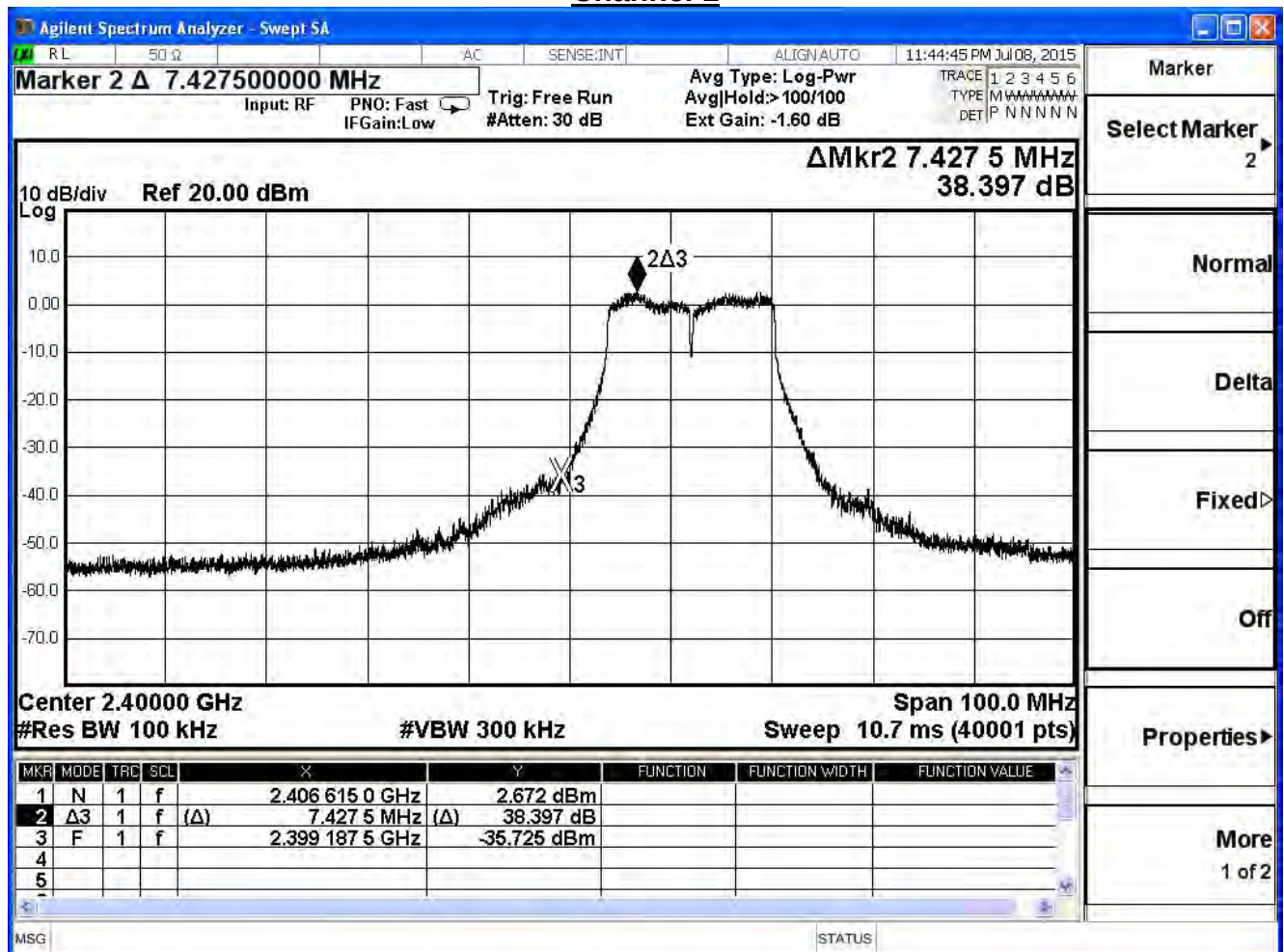
Channel 11



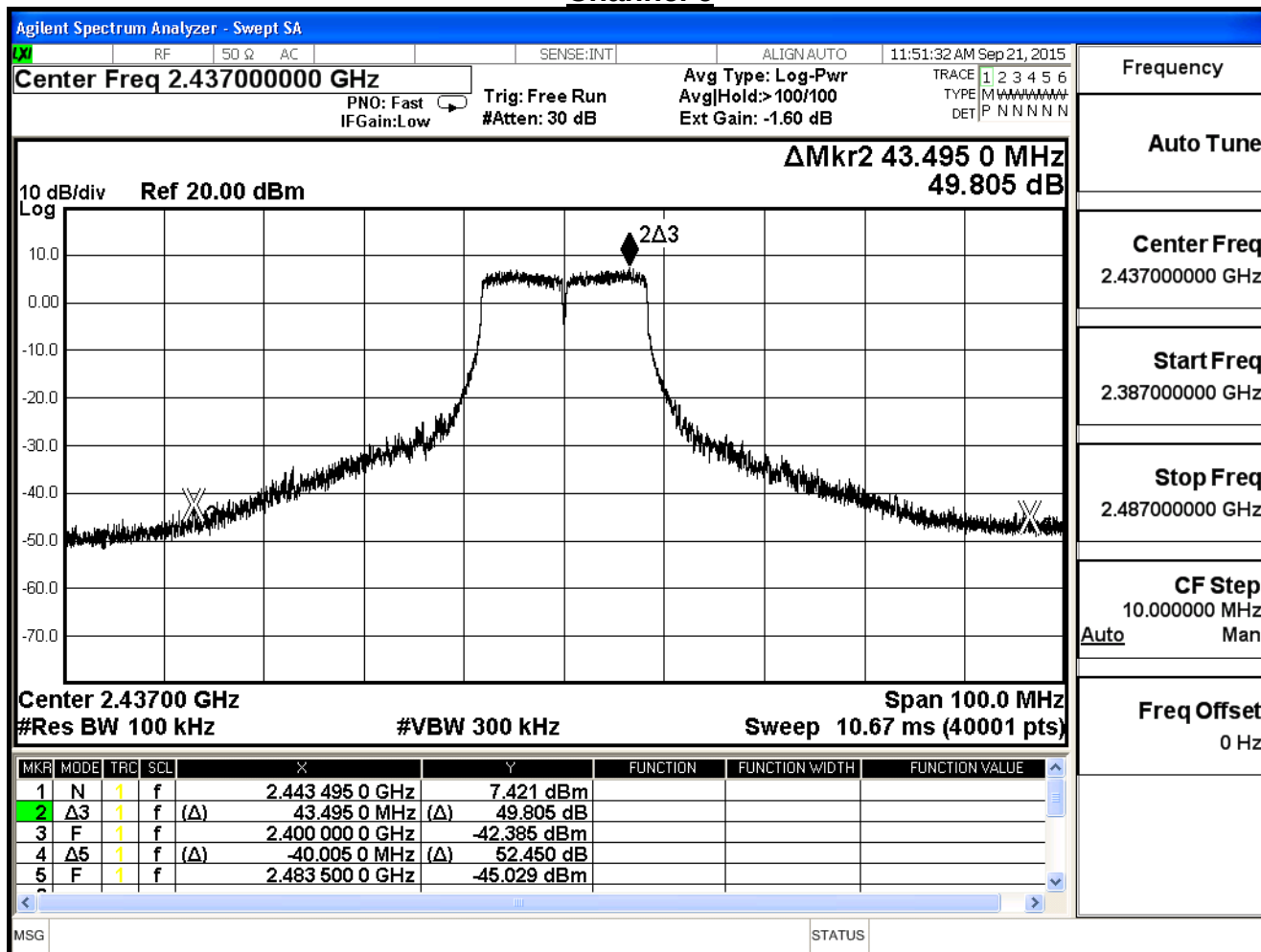
Product	Dual-band Wireless Range Extender		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD Mode_AD890326		
Date of Test	2015/09/21	Test Site	SR7

IEEE 802.11g (ANT 0), Antenna Gain: 3.57dBi				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	38.397	≥ 30	Pass
6	2437	49.805	≥ 30	Pass
11	2462	49.275	≥ 30	Pass

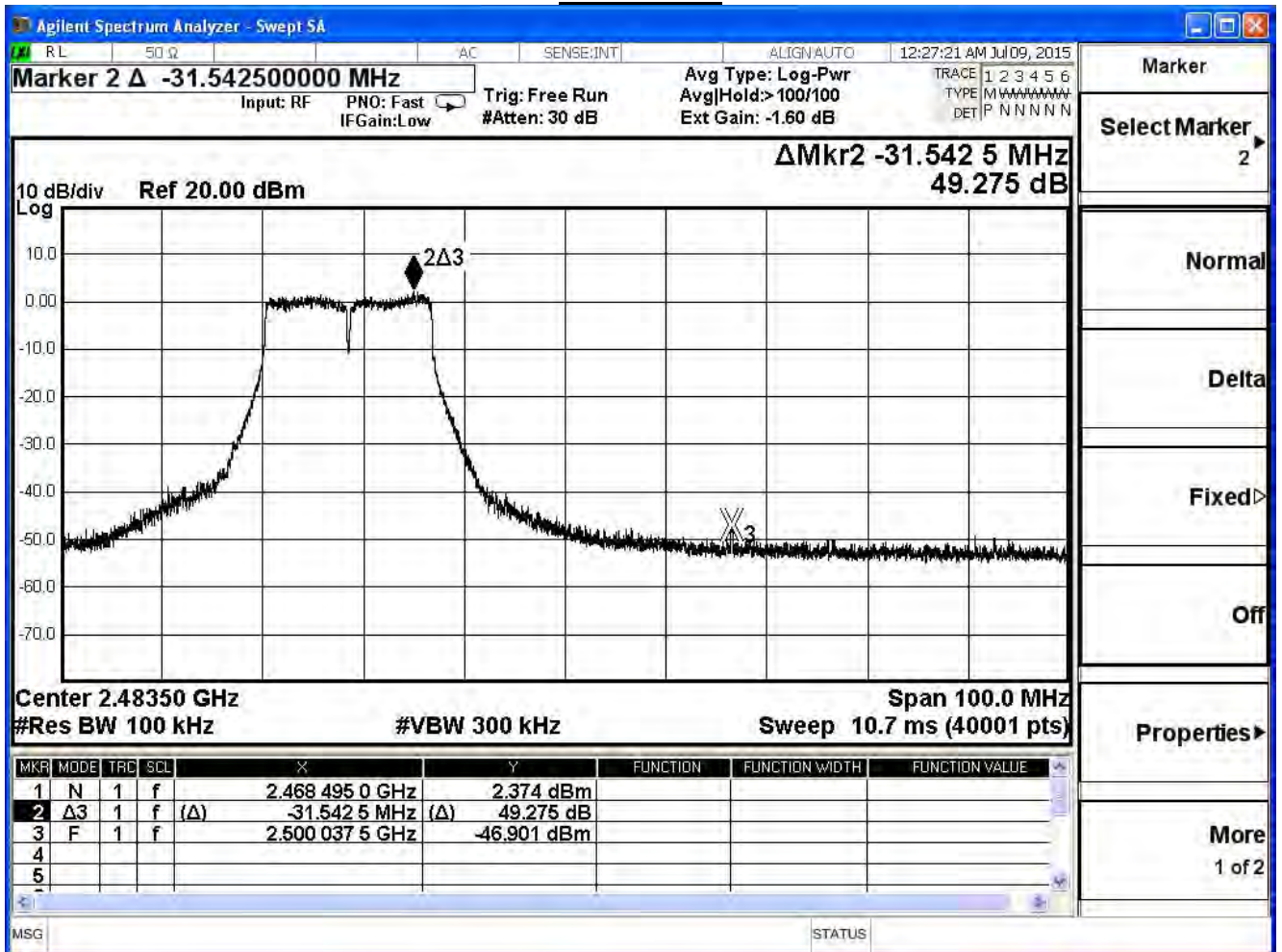
Channel 1



Channel 6



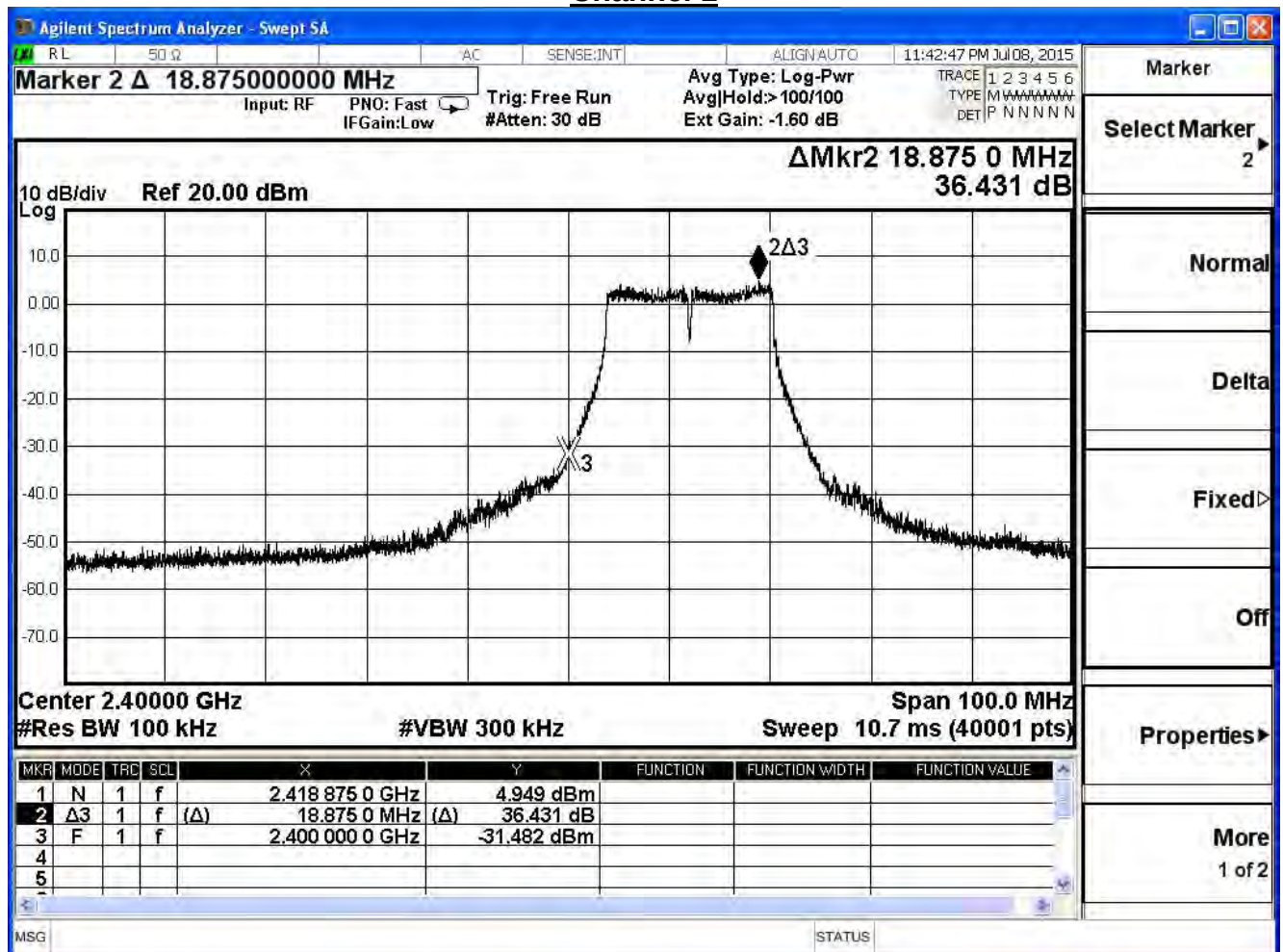
Channel 11



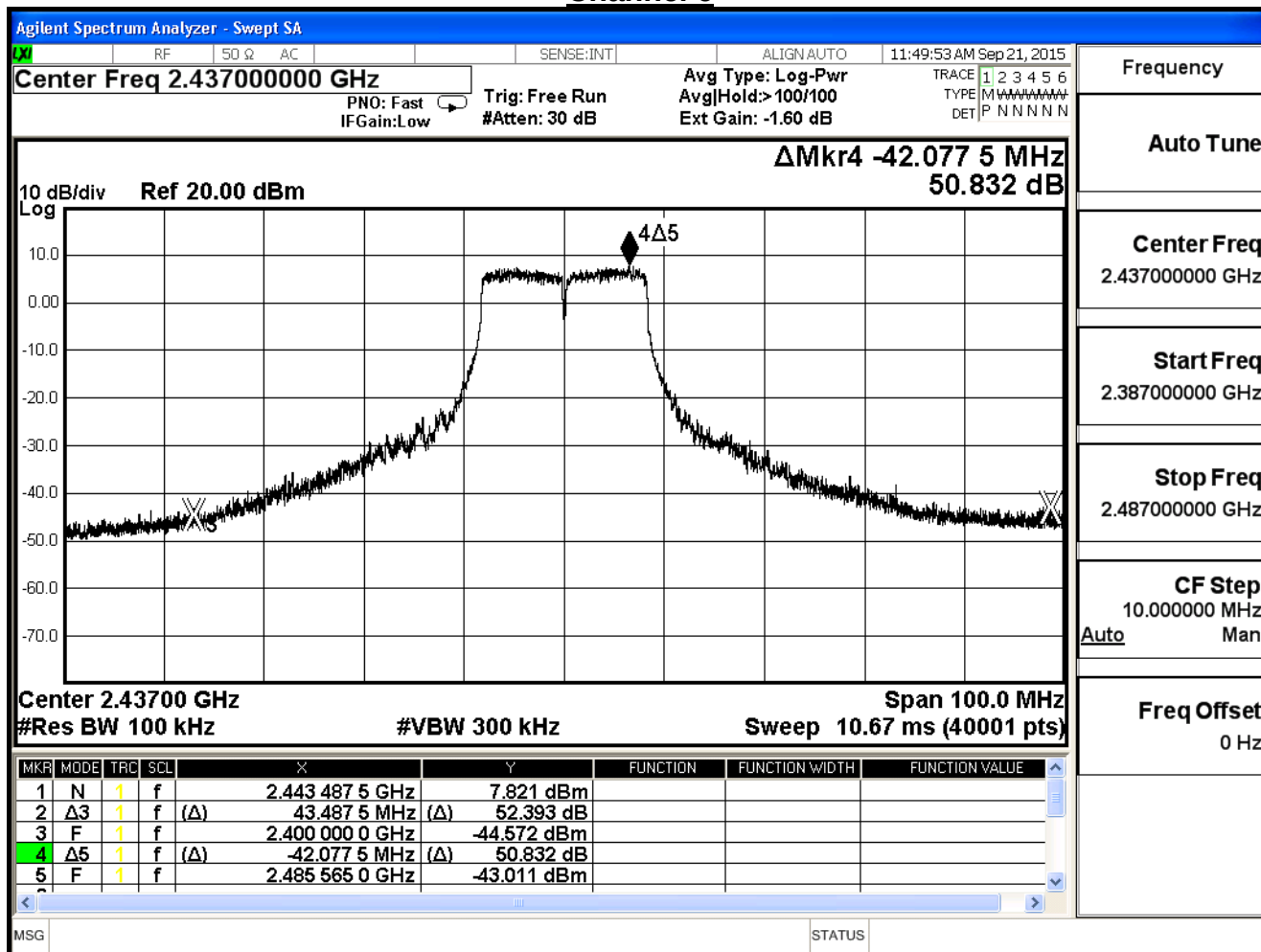
Product	Dual-band Wireless Range Extender		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD Mode_AD890326		
Date of Test	2015/09/21	Test Site	SR7

IEEE 802.11g (ANT 1), Antenna Gain: 3.31dBi				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	36.431	≥ 30	Pass
6	2437	50.832	≥ 30	Pass
11	2462	49.269	≥ 30	Pass

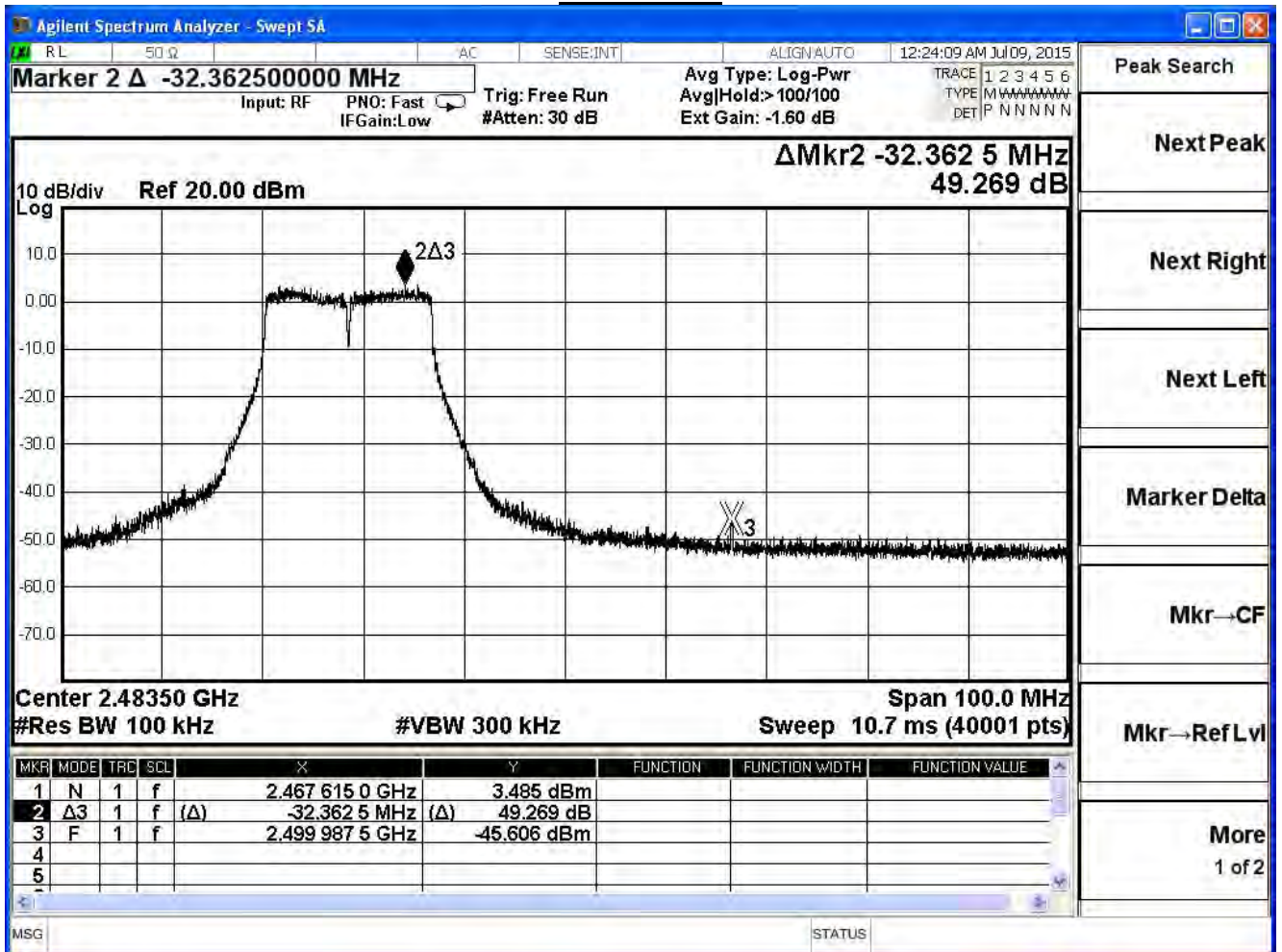
Channel 1



Channel 6



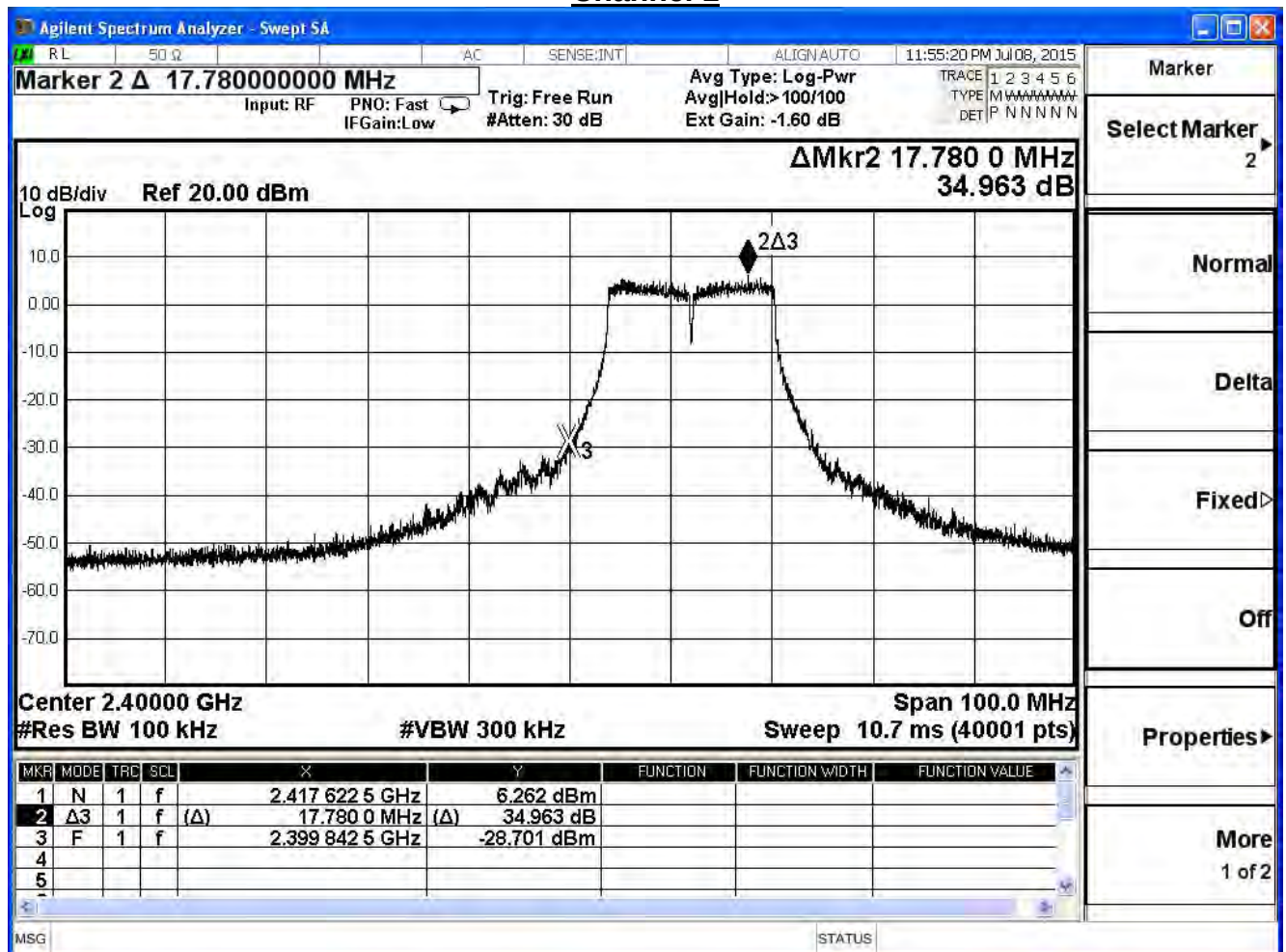
Channel 11



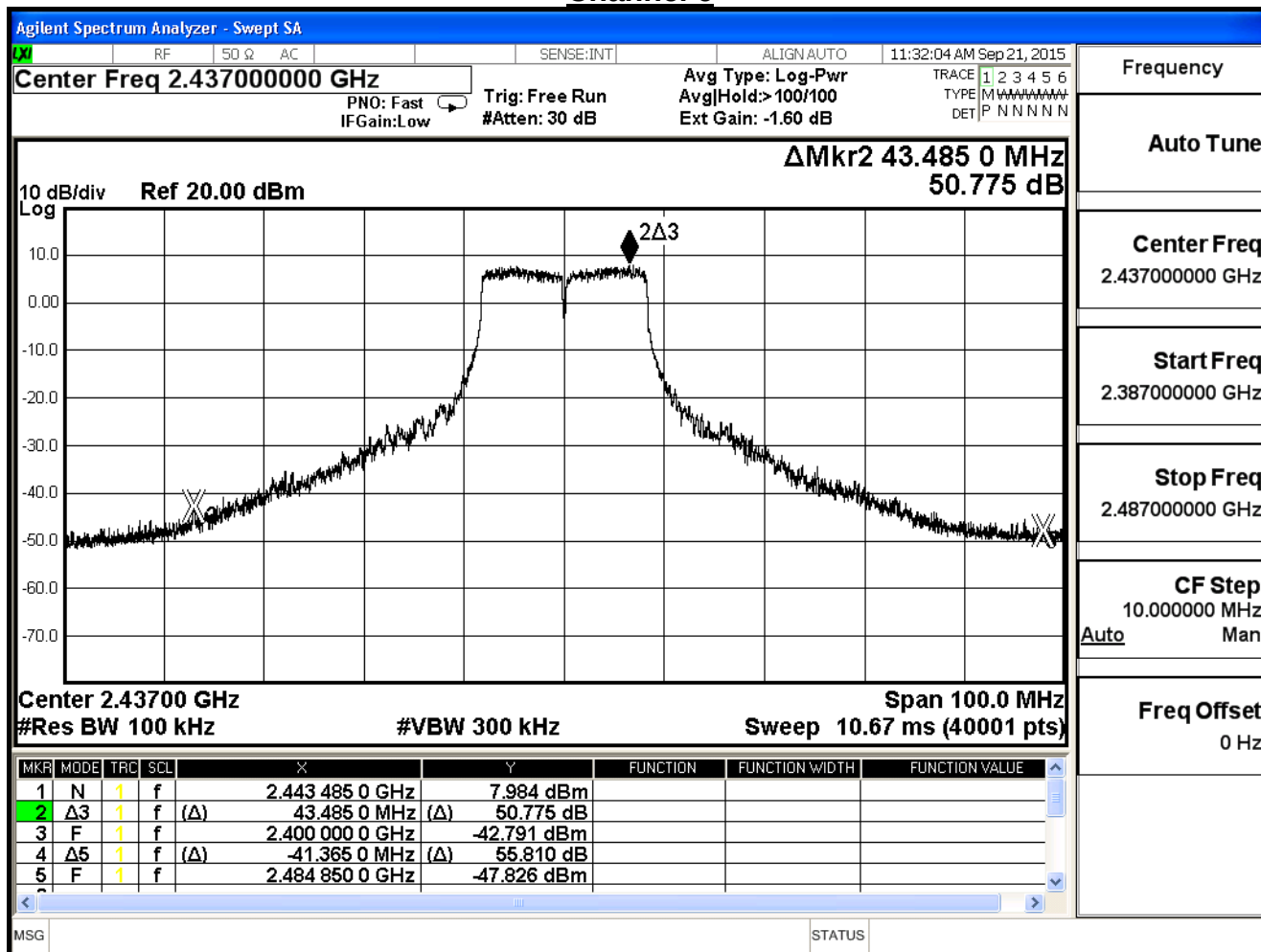
Product	Dual-band Wireless Range Extender		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD Mode_AD890326		
Date of Test	2015/09/21	Test Site	SR7

IEEE 802.11g (ANT 2), Antenna Gain: 2.99dBi				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	34.963	≥ 30	Pass
6	2437	50.775	≥ 30	Pass
11	2462	48.687	≥ 30	Pass

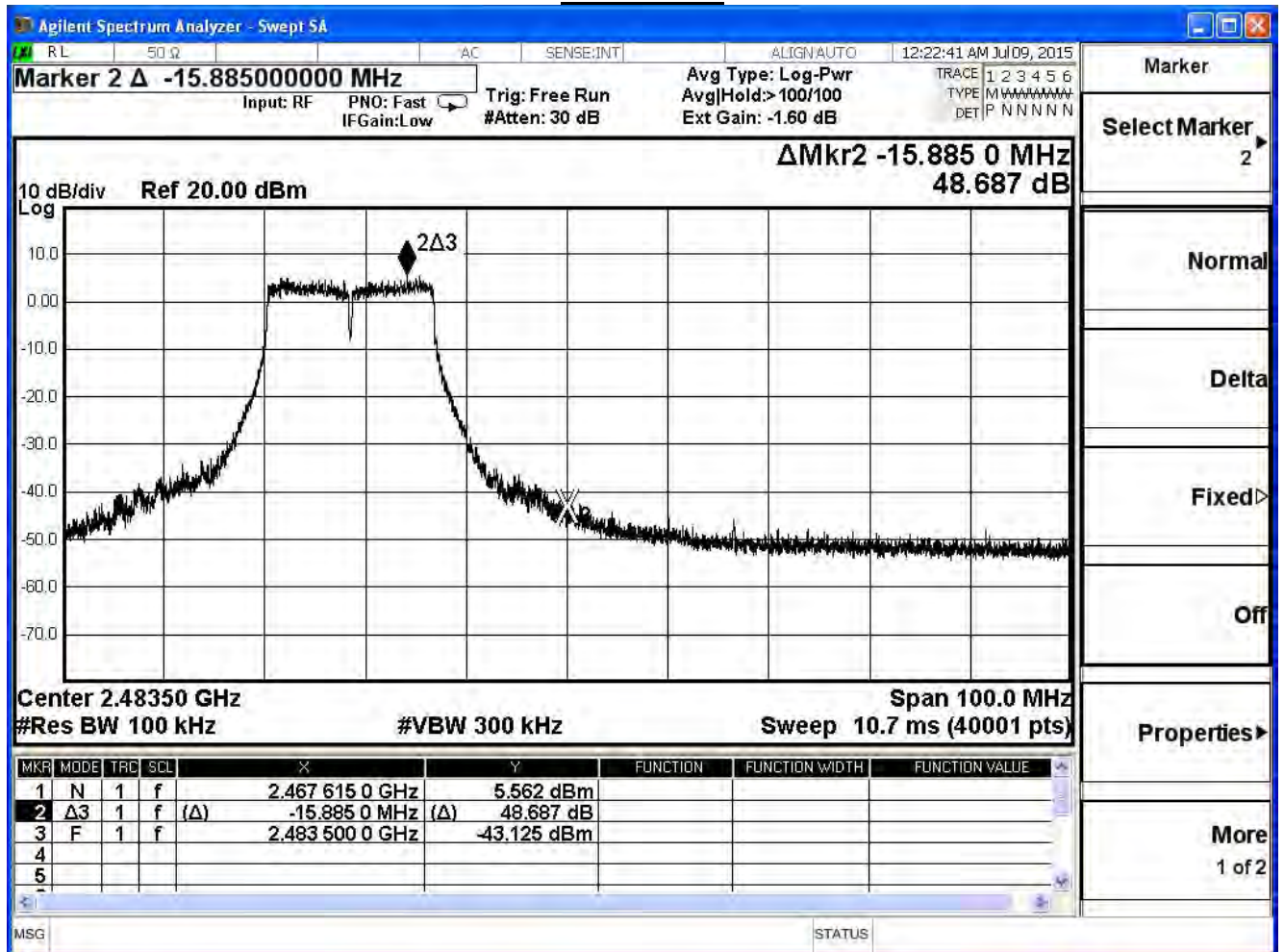
Channel 1



Channel 6



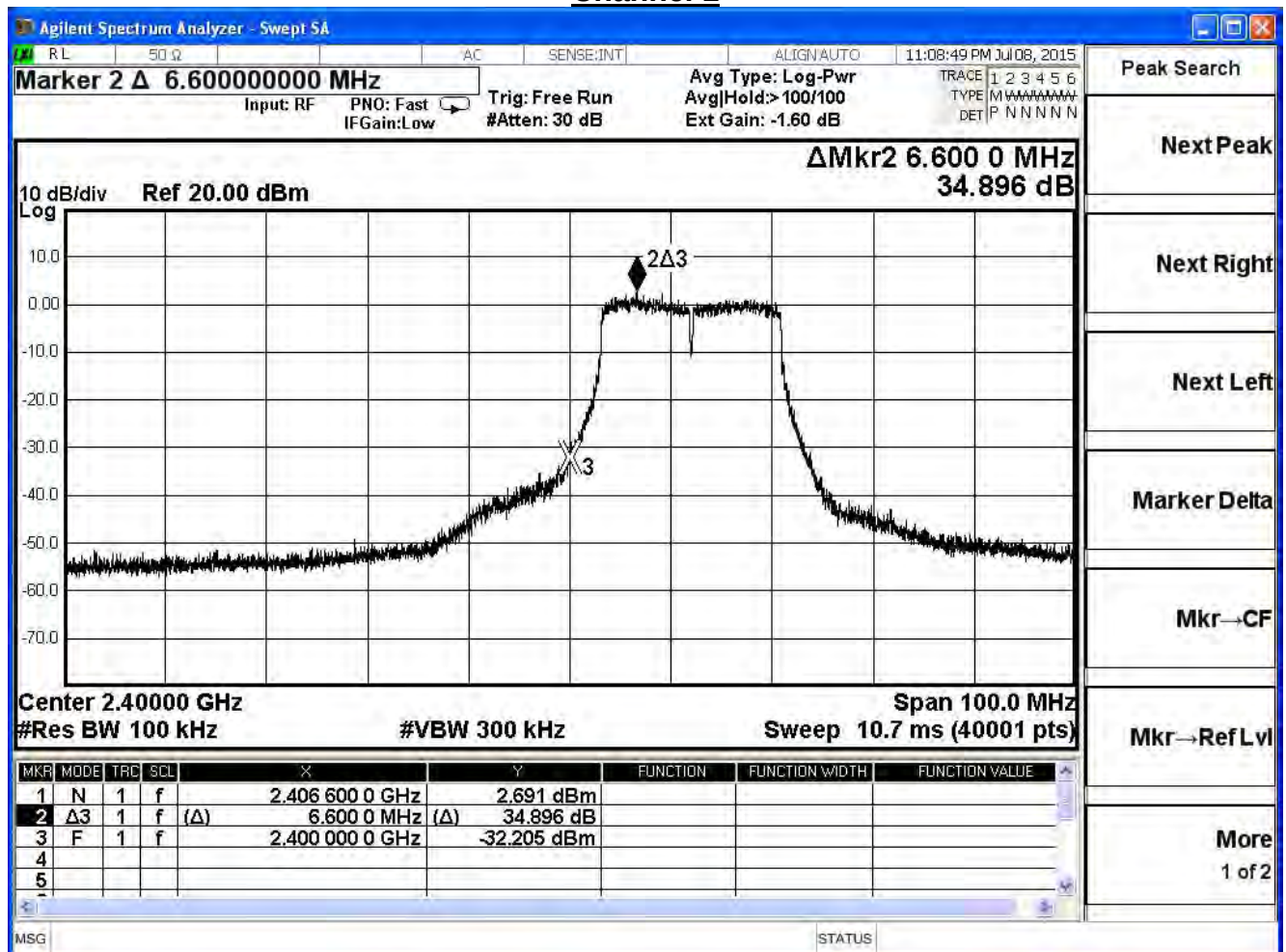
Channel 11



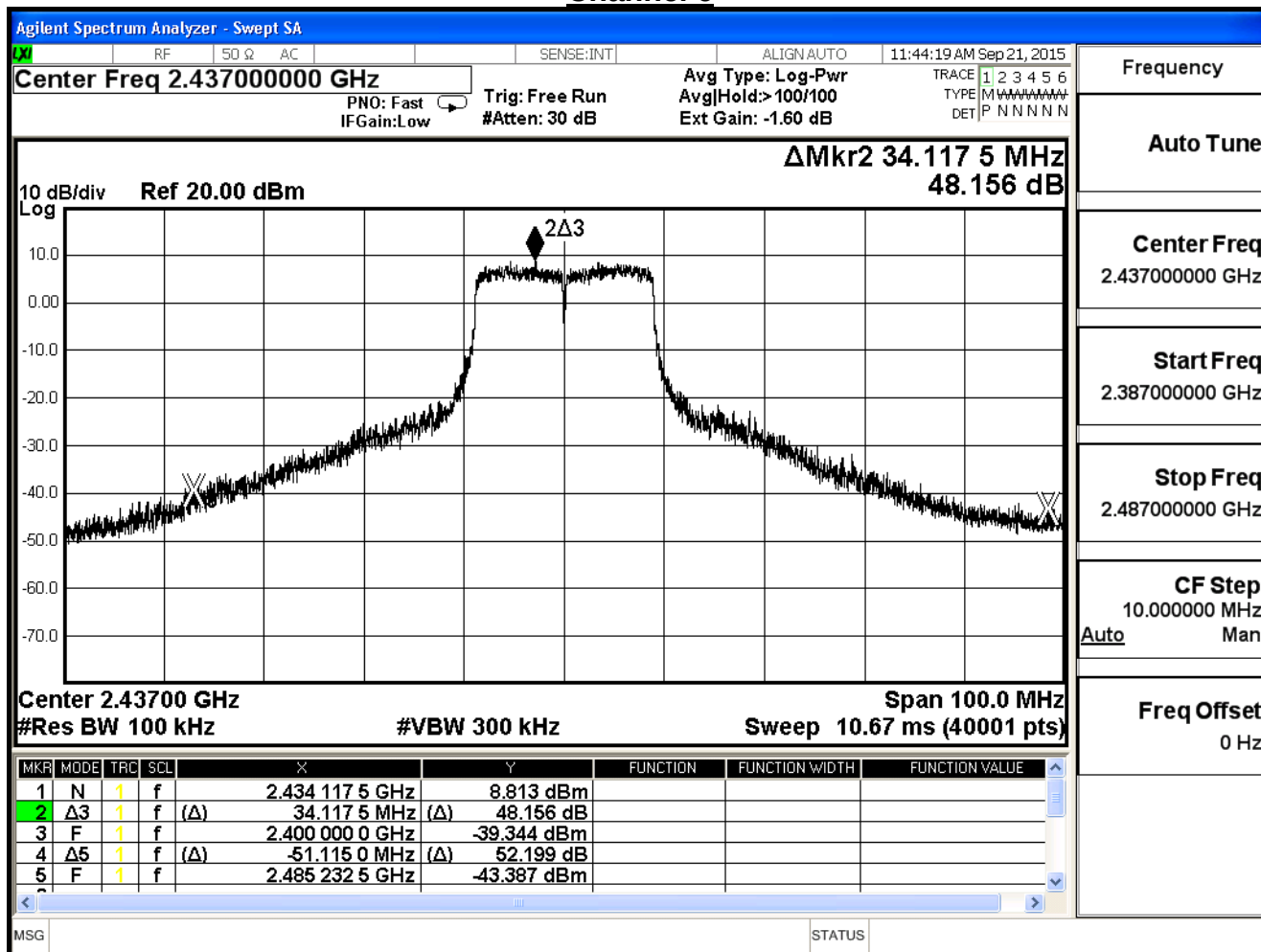
Product	Dual-band Wireless Range Extender		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD Mode_AD890326		
Date of Test	2015/09/21	Test Site	SR7

IEEE 802.11n_20M (ANT 0), Antenna Gain: 3.57dBi				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	34.896	≥ 30	Pass
6	2437	48.156	≥ 30	Pass
11	2462	49.921	≥ 30	Pass

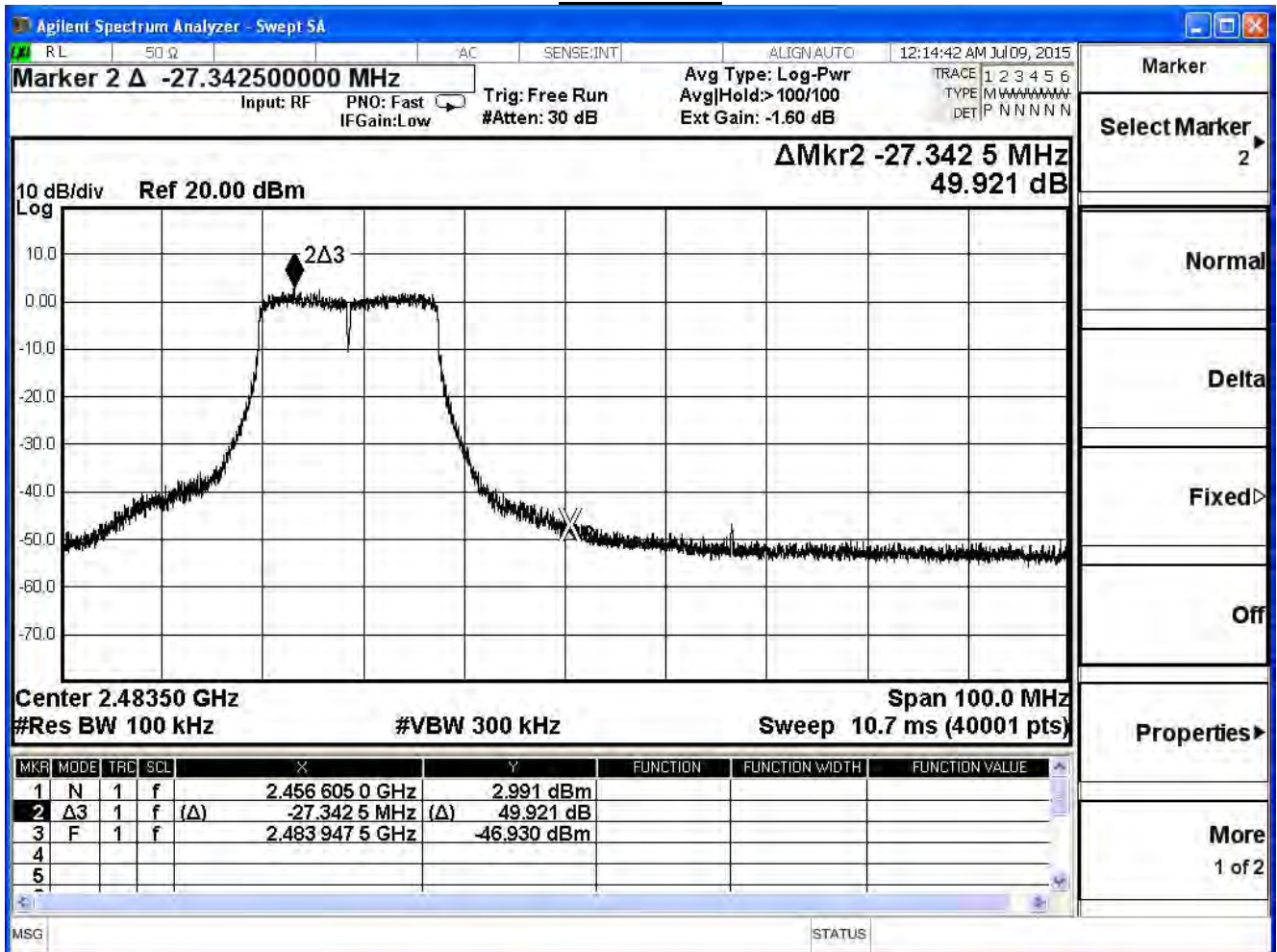
Channel 1



Channel 6



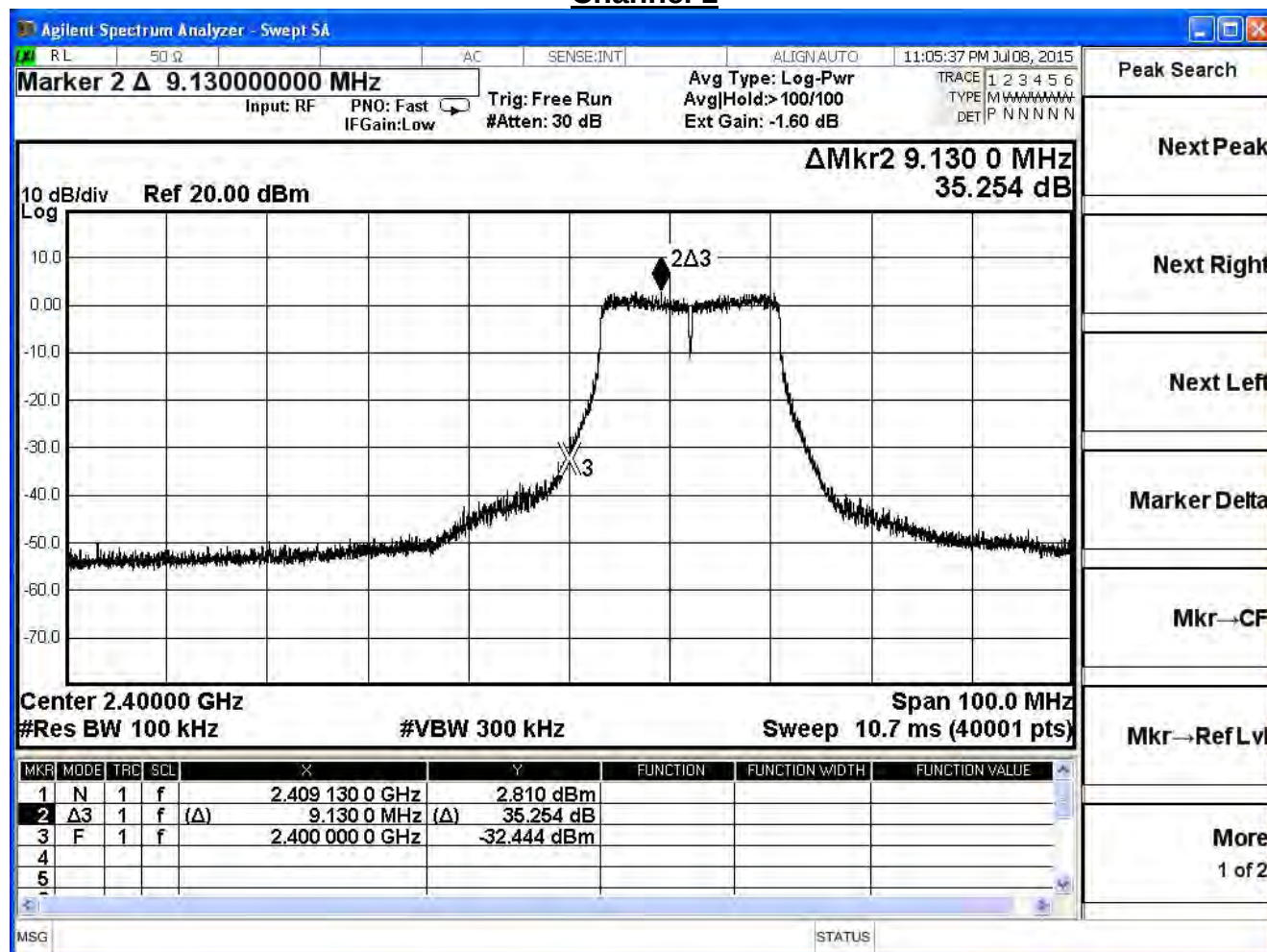
Channel 11



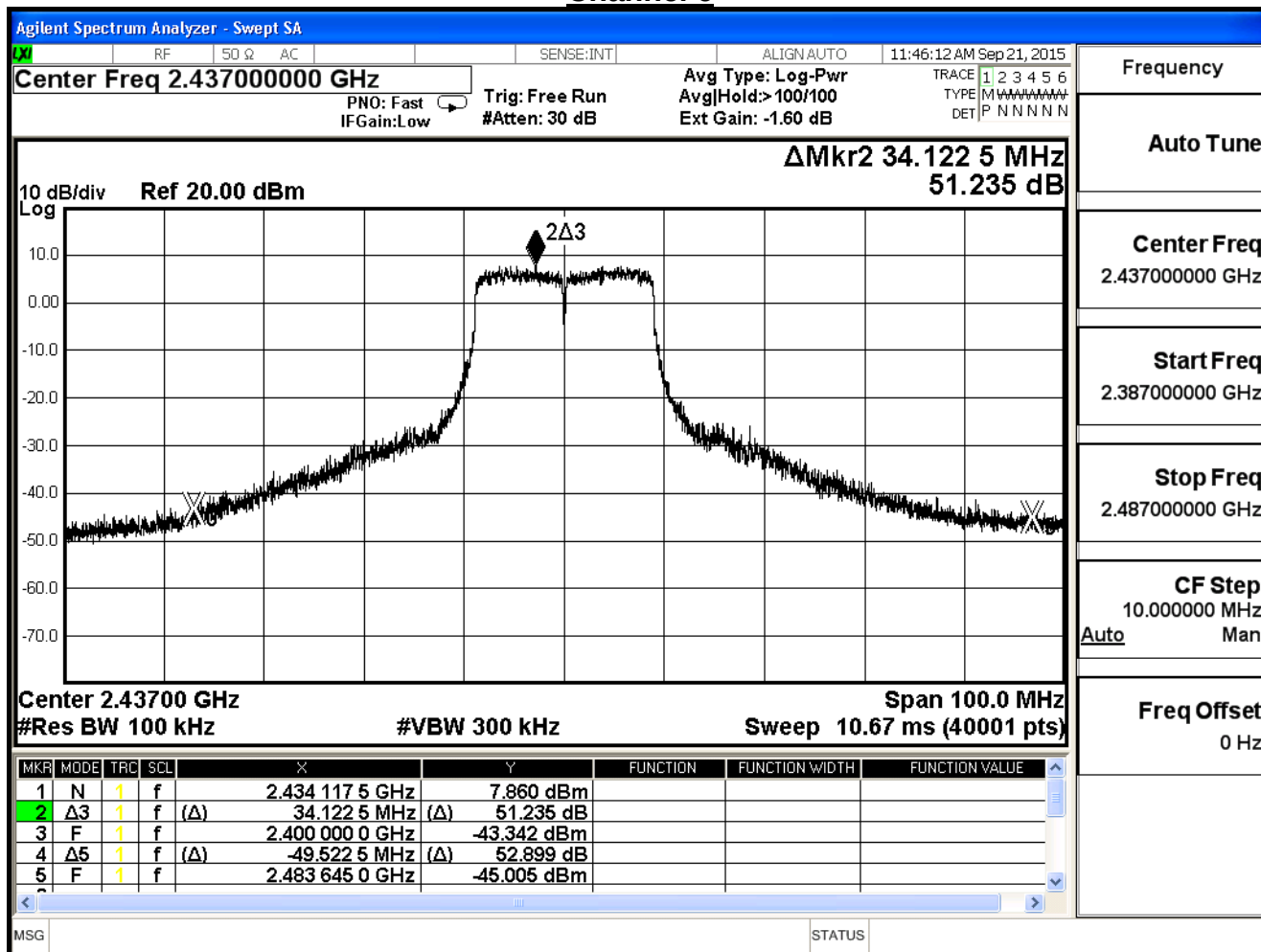
Product	Dual-band Wireless Range Extender		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD Mode_AD890326		
Date of Test	2015/09/21	Test Site	SR7

IEEE 802.11n_20M (ANT 1), Antenna Gain: 3.31dBi				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	35.254	≥ 30	Pass
6	2437	51.235	≥ 30	Pass
11	2462	47.569	≥ 30	Pass

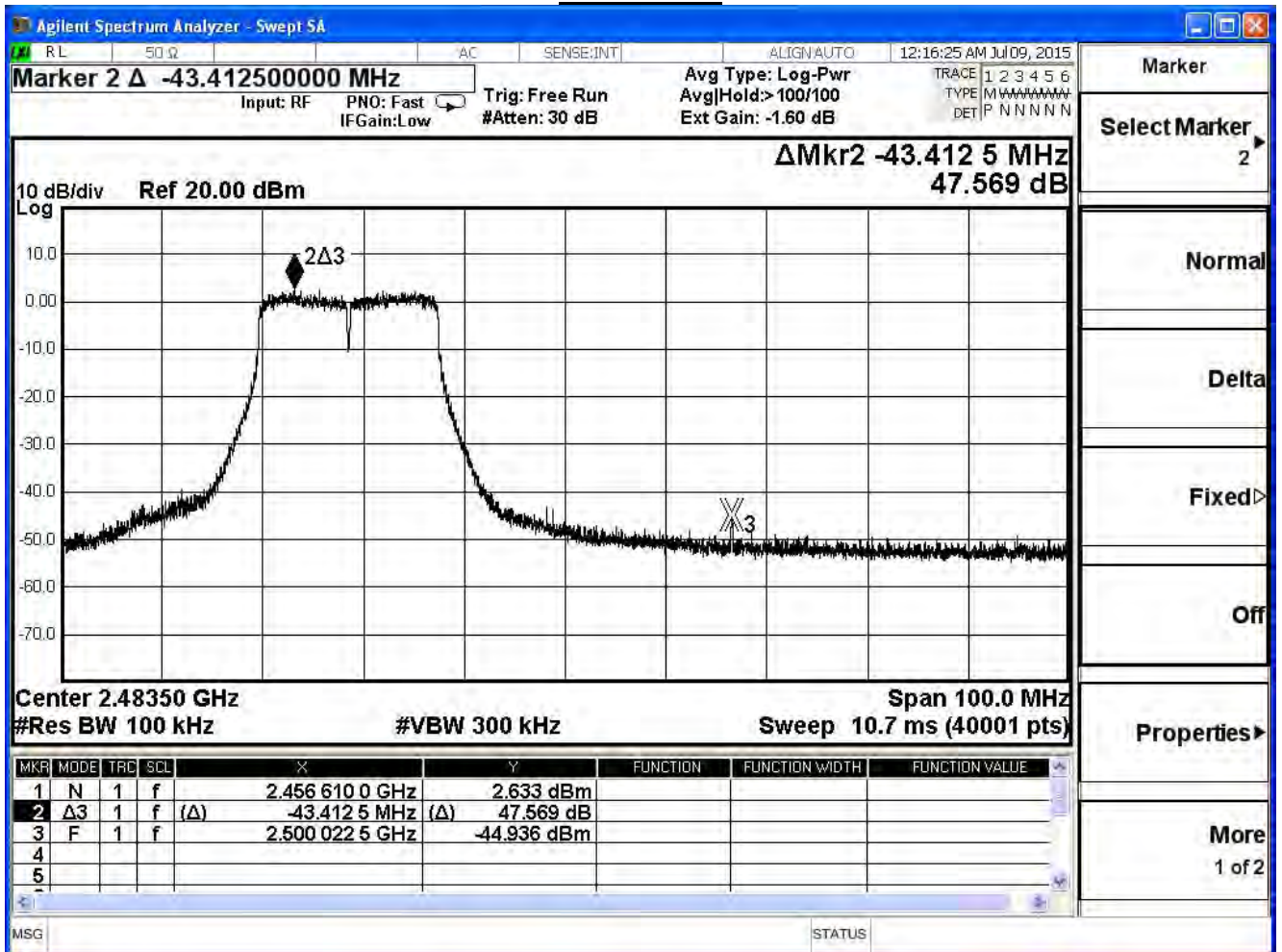
Channel 1



Channel 6



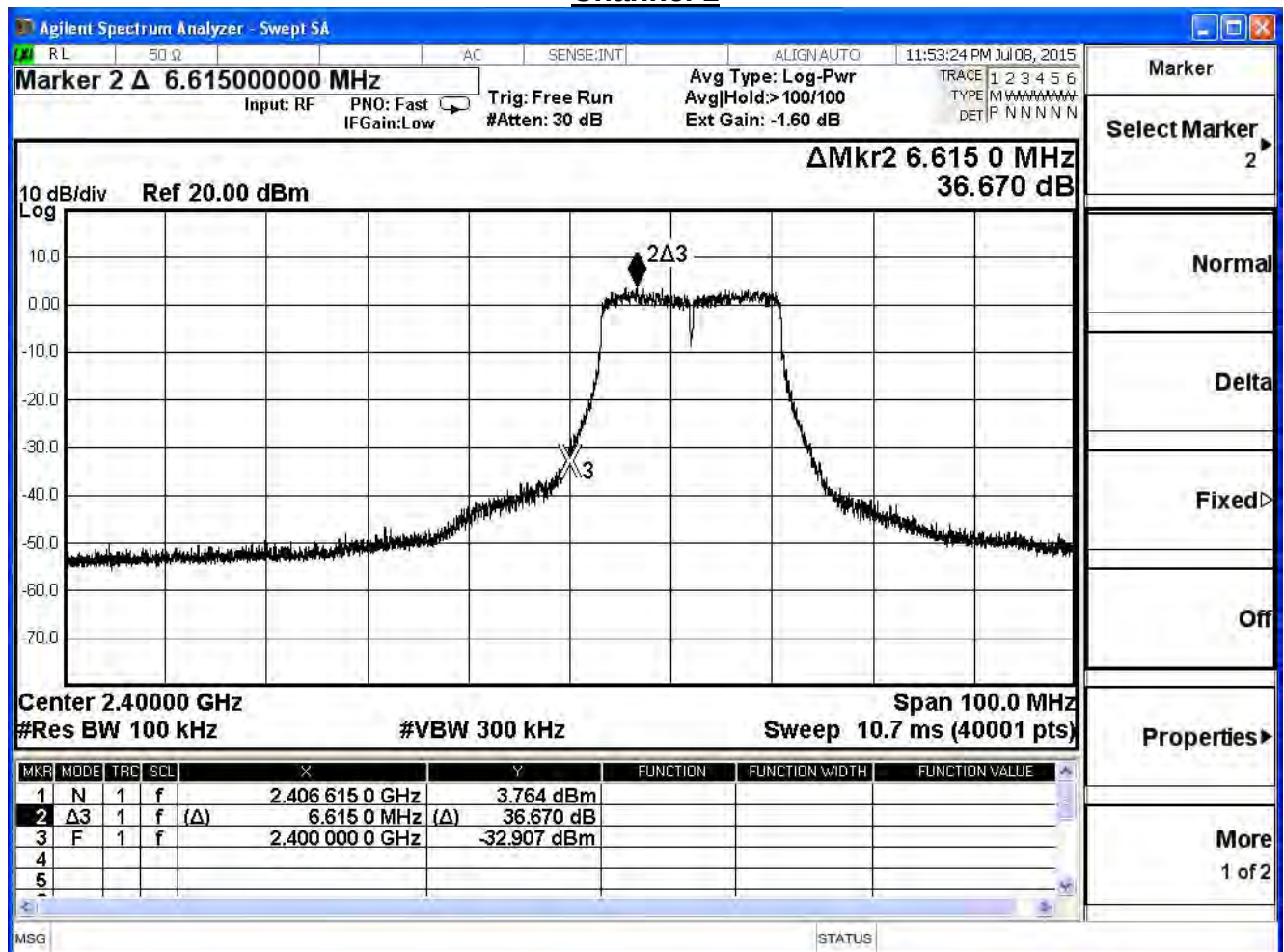
Channel 11



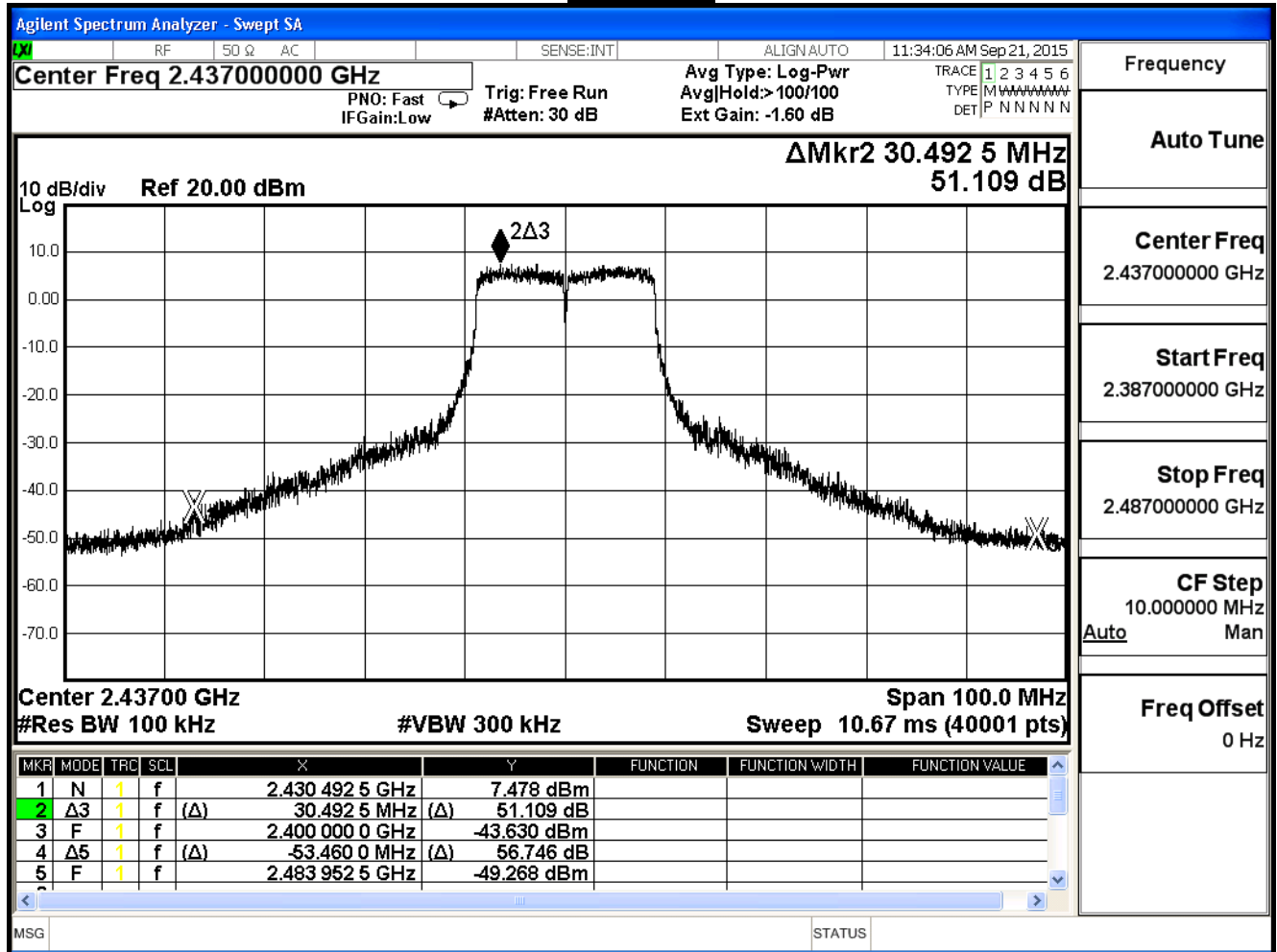
Product	Dual-band Wireless Range Extender		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD Mode_AD890326		
Date of Test	2015/09/21	Test Site	SR7

IEEE 802.11n_20M (ANT 2), Antenna Gain: 2.99dBi				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	36.670	≥ 30	Pass
6	2437	51.109	≥ 30	Pass
11	2462	48.094	≥ 30	Pass

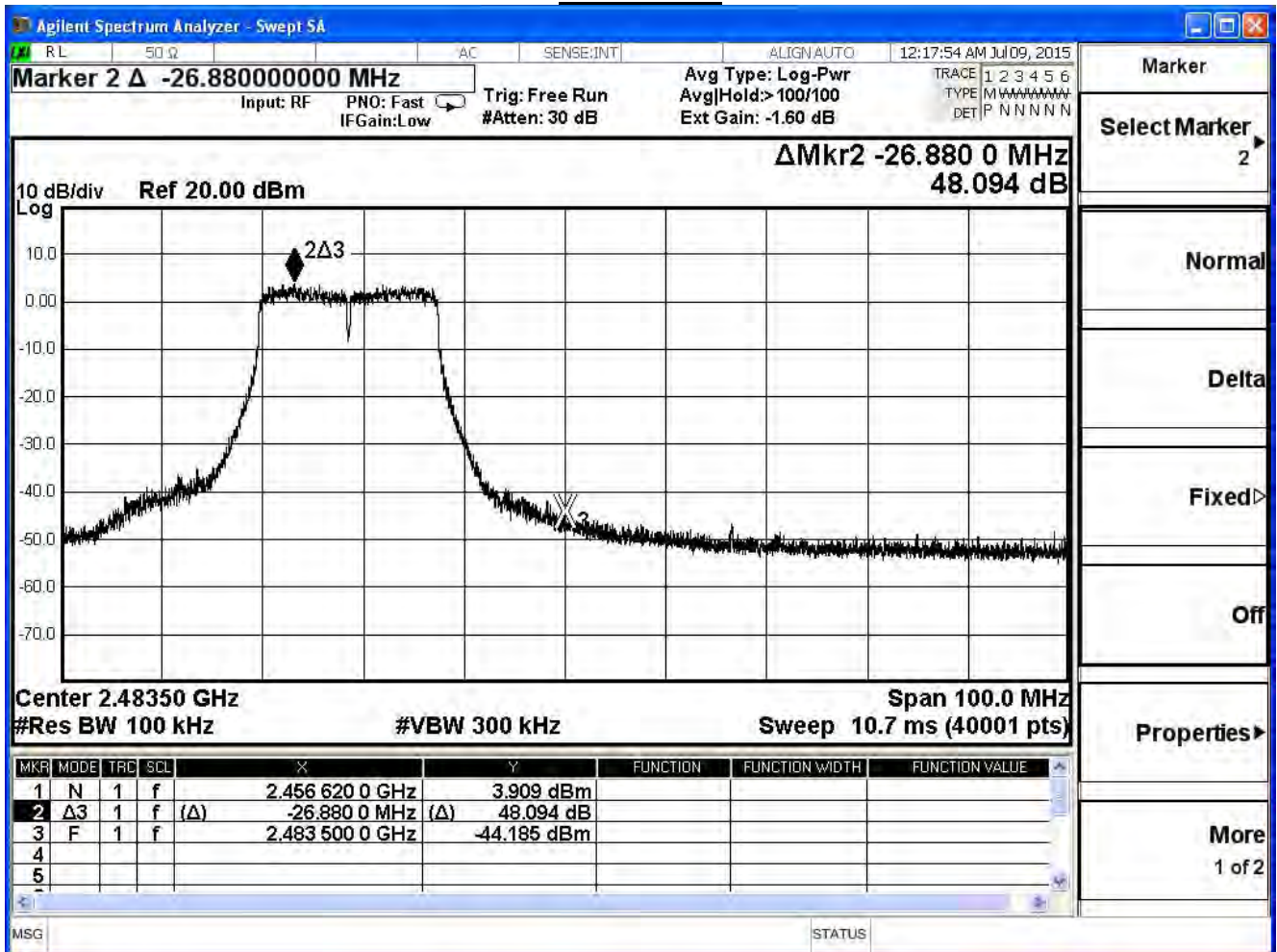
Channel 1



Channel 6



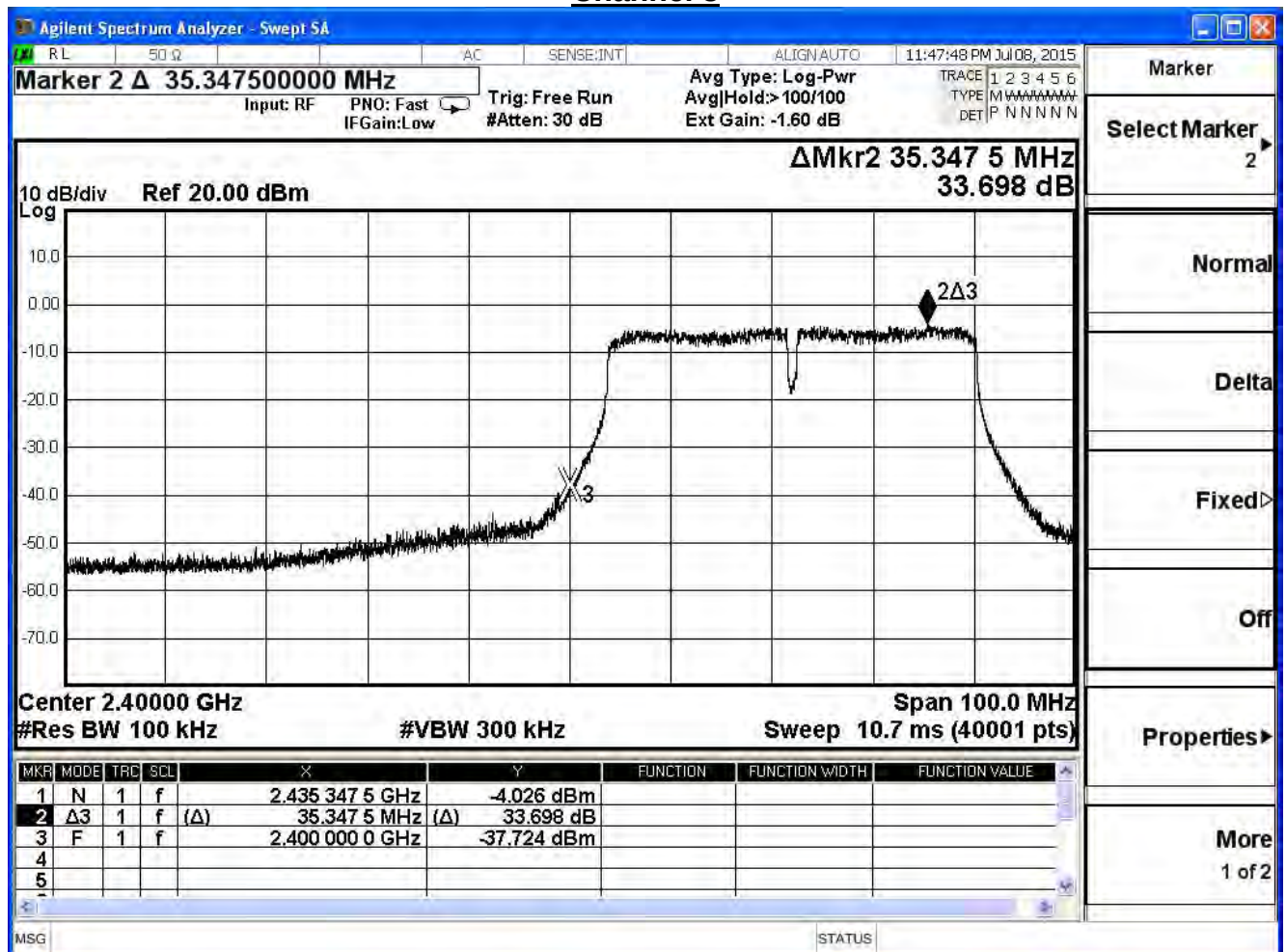
Channel 11



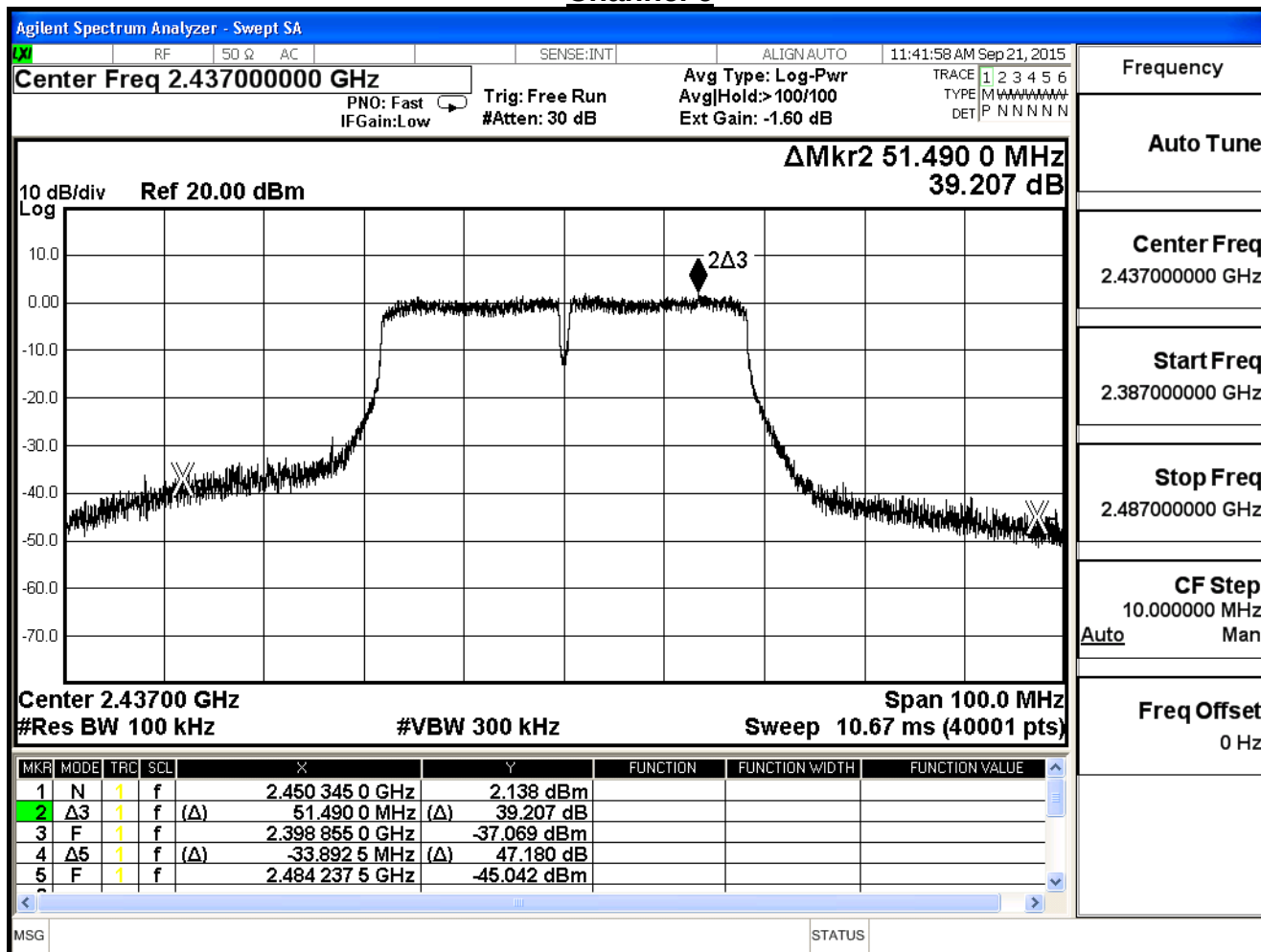
Product	Dual-band Wireless Range Extender		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD Mode_AD890326		
Date of Test	2015/09/21	Test Site	SR7

IEEE 802.11n_40M (ANT 0), Antenna Gain: 3.57dBi				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	33.698	≥ 30	Pass
6	2437	39.207	≥ 30	Pass
9	2452	43.193	≥ 30	Pass

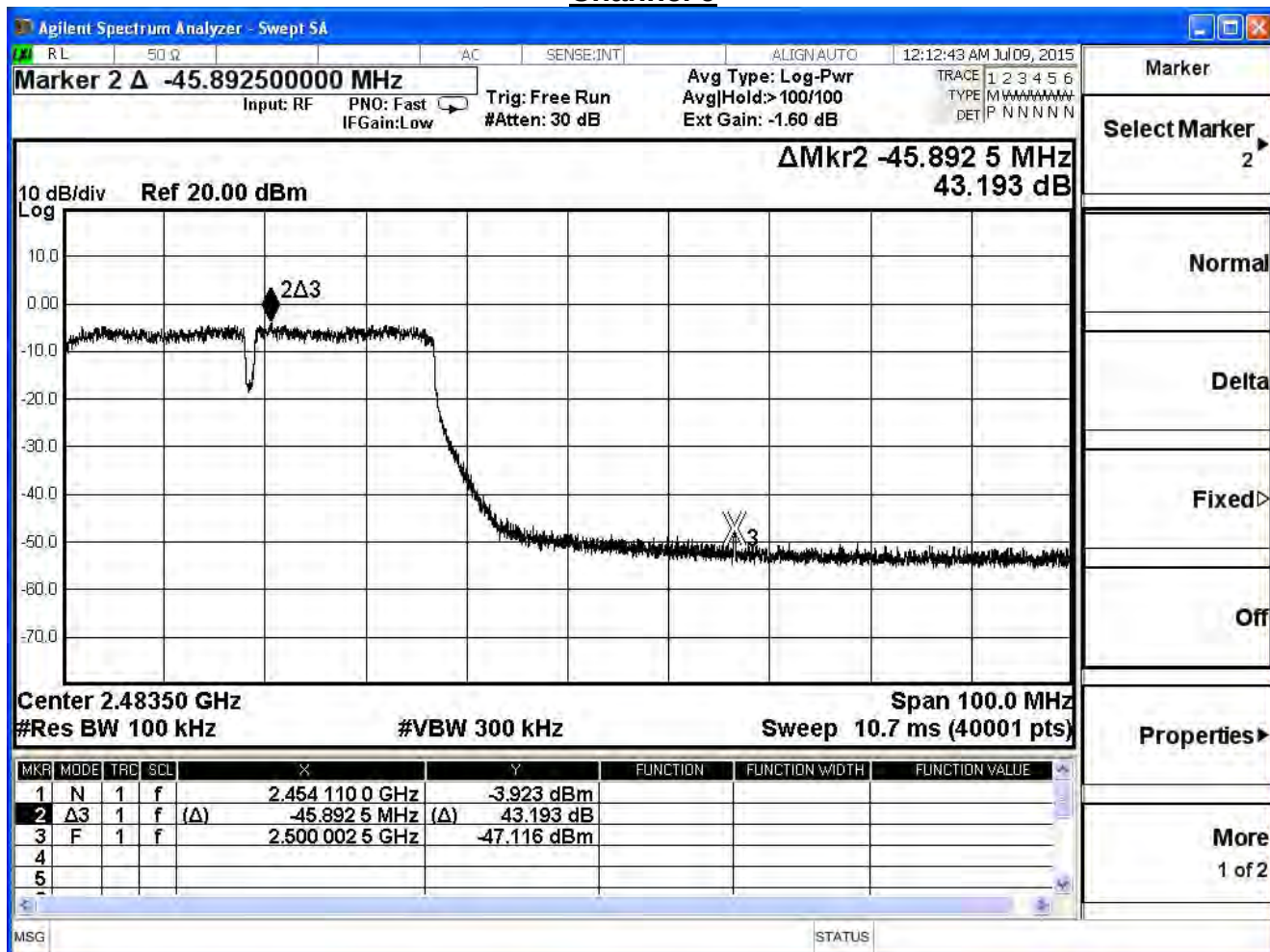
Channel 3



Channel 6



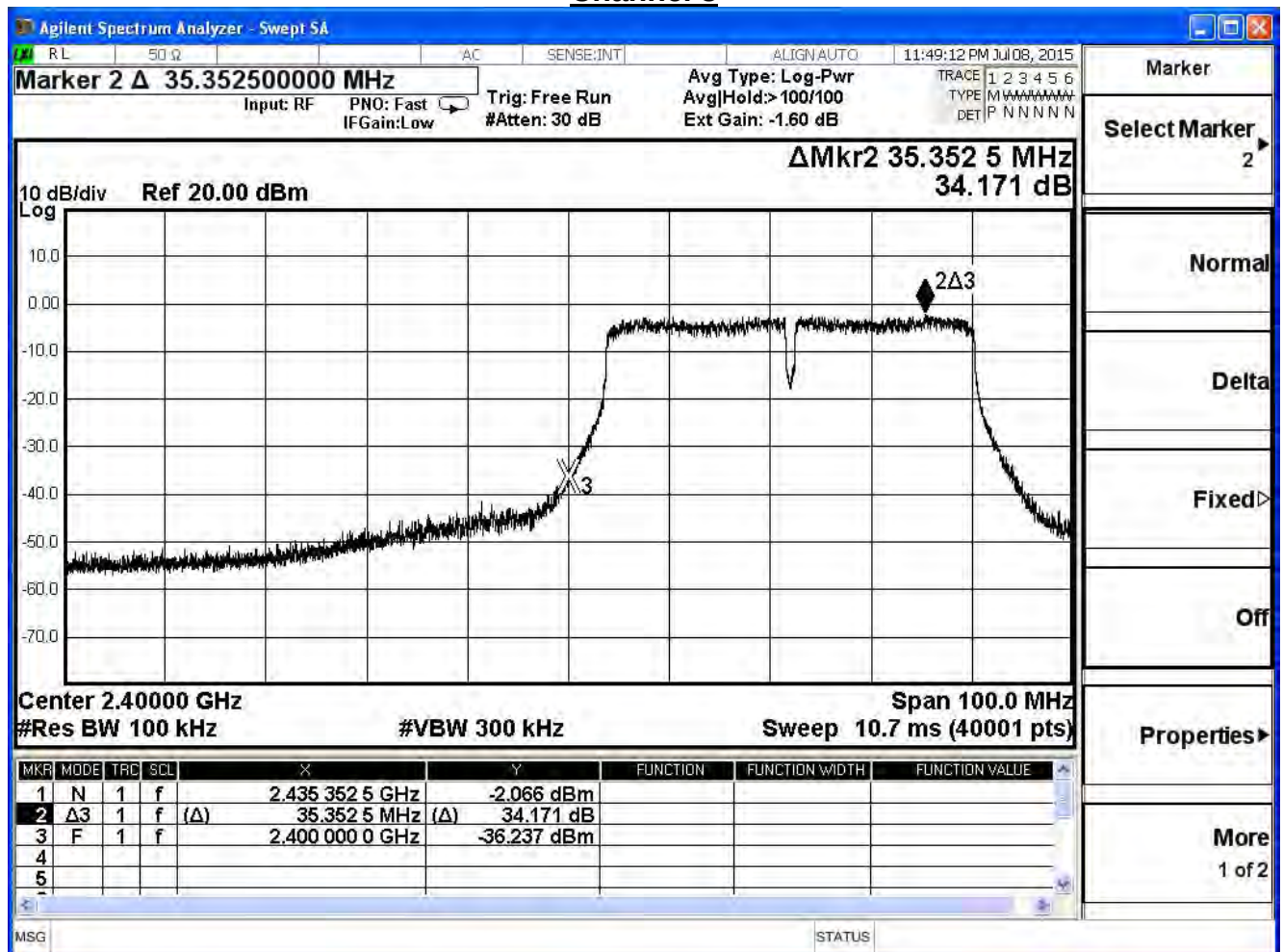
Channel 9



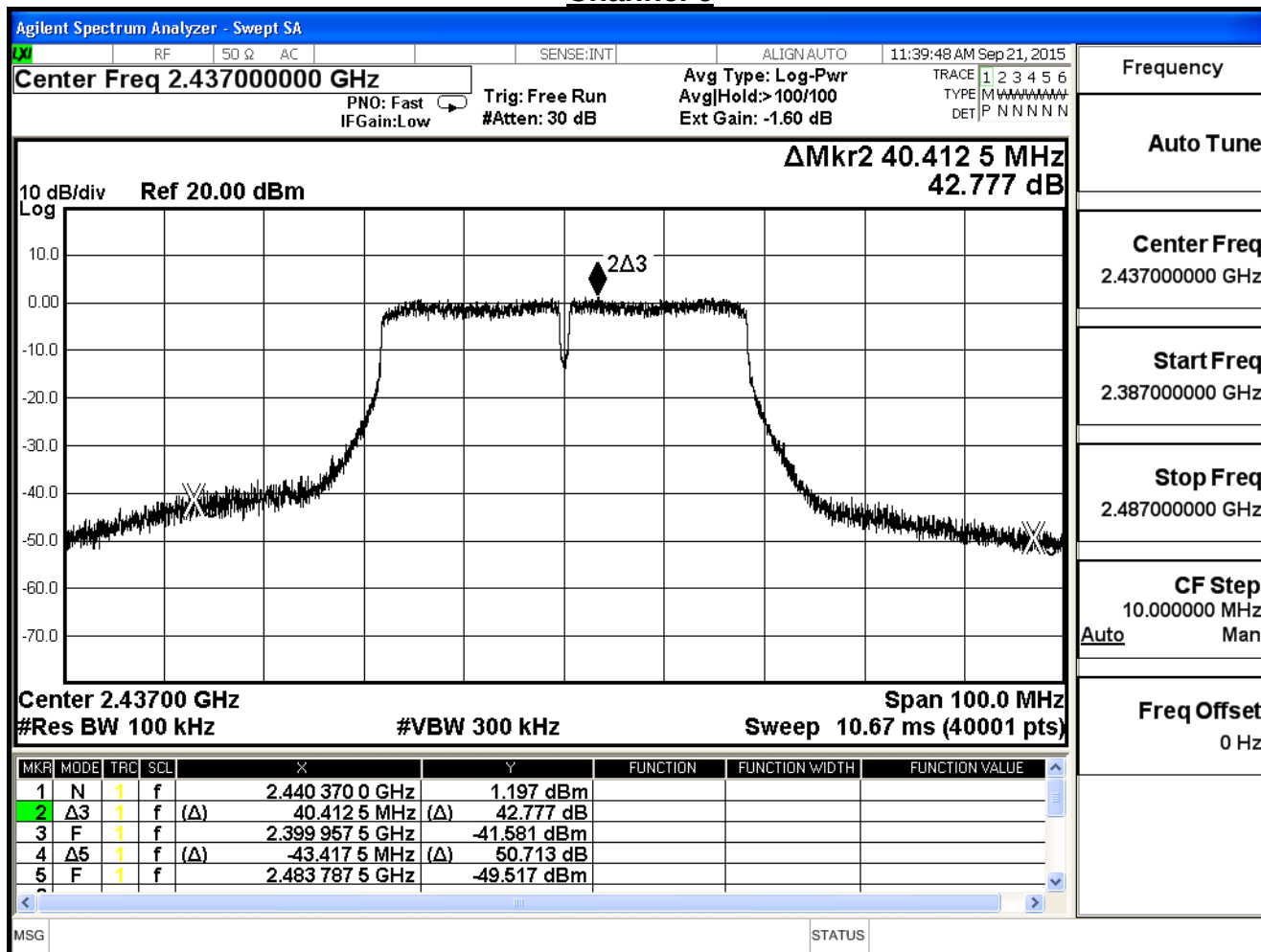
Product	Dual-band Wireless Range Extender		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD Mode_AD890326		
Date of Test	2015/09/21	Test Site	SR7

IEEE 802.11n_40M (ANT 1), Antenna Gain: 3.31dBi				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	34.171	≥ 30	Pass
6	2437	42.777	≥ 30	Pass
9	2452	43.267	≥ 30	Pass

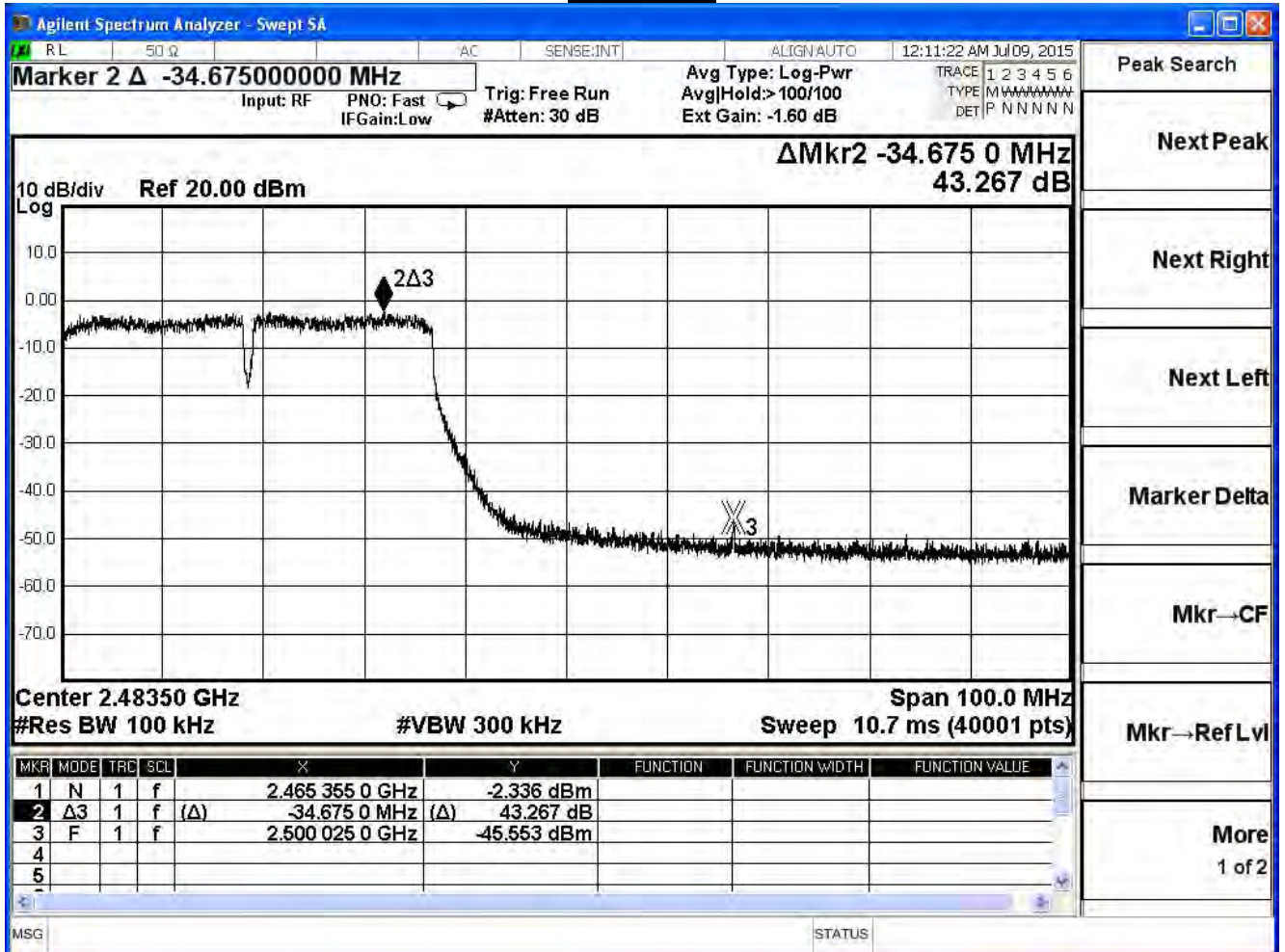
Channel 3



Channel 6



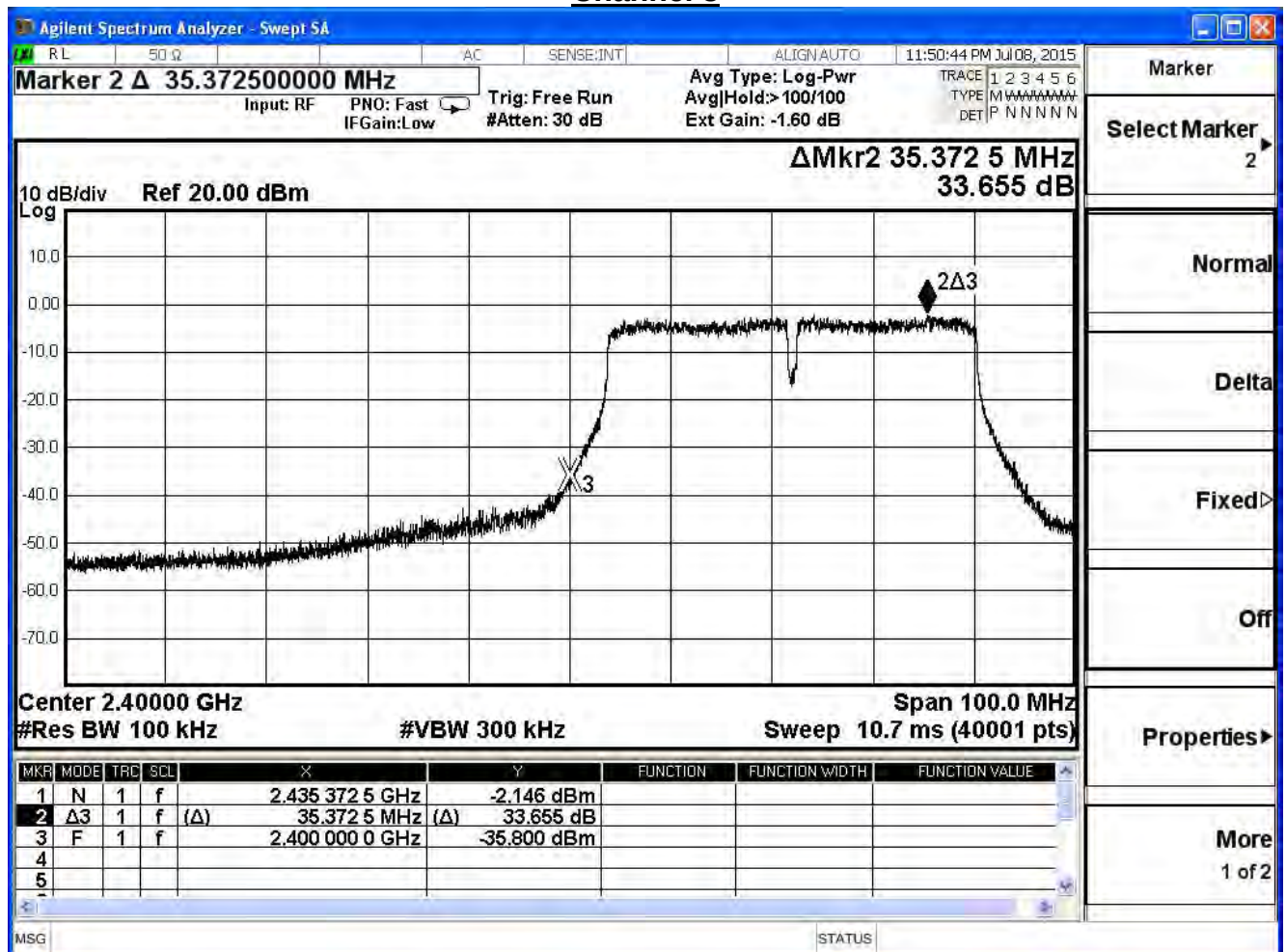
Channel 9



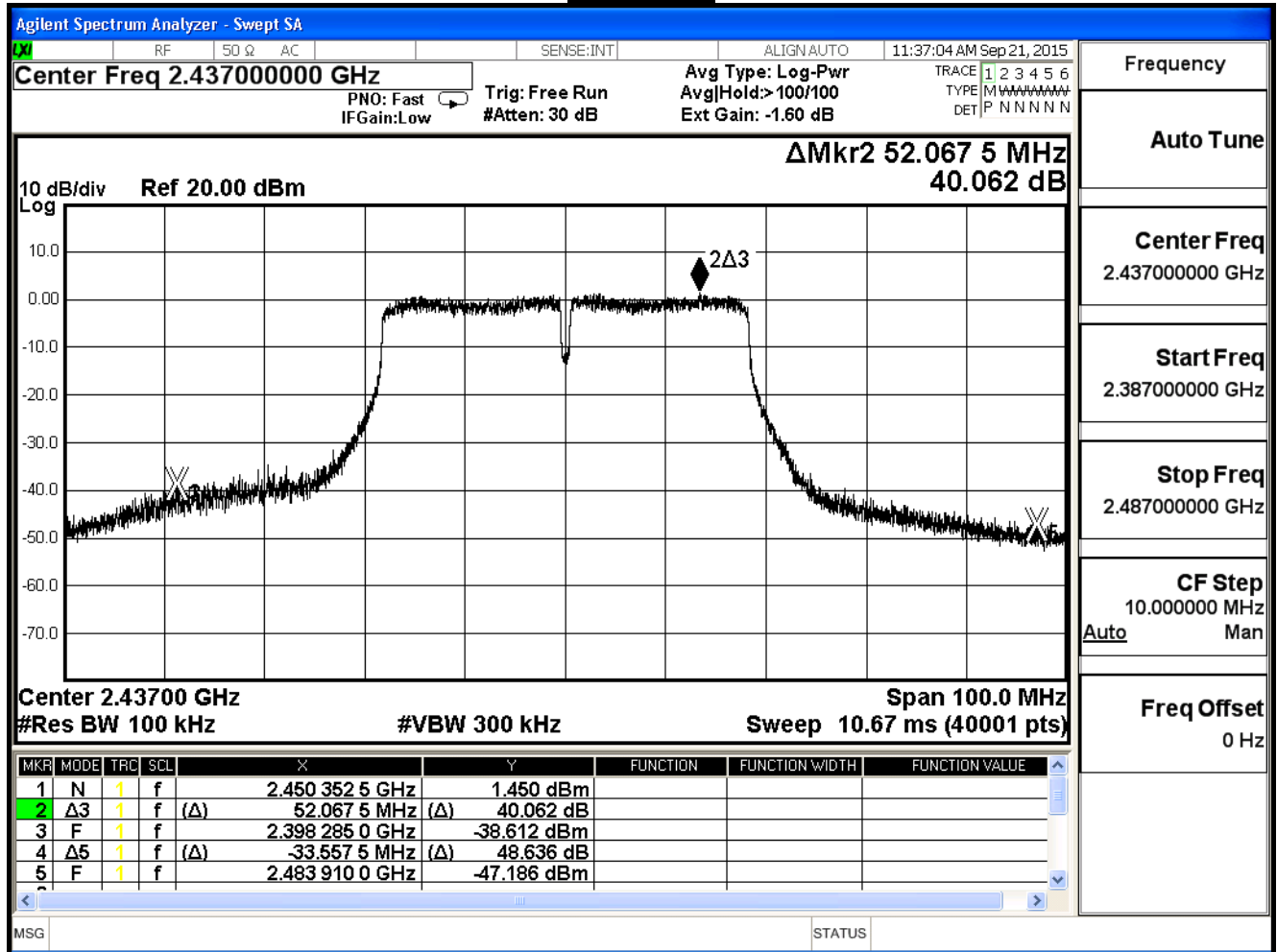
Product	Dual-band Wireless Range Extender		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD Mode_AD890326		
Date of Test	2015/09/21	Test Site	SR7

IEEE 802.11n_40M (ANT 2), Antenna Gain: 2.99dBi				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	33.655	≥ 30	Pass
6	2437	40.062	≥ 30	Pass
9	2452	44.644	≥ 30	Pass

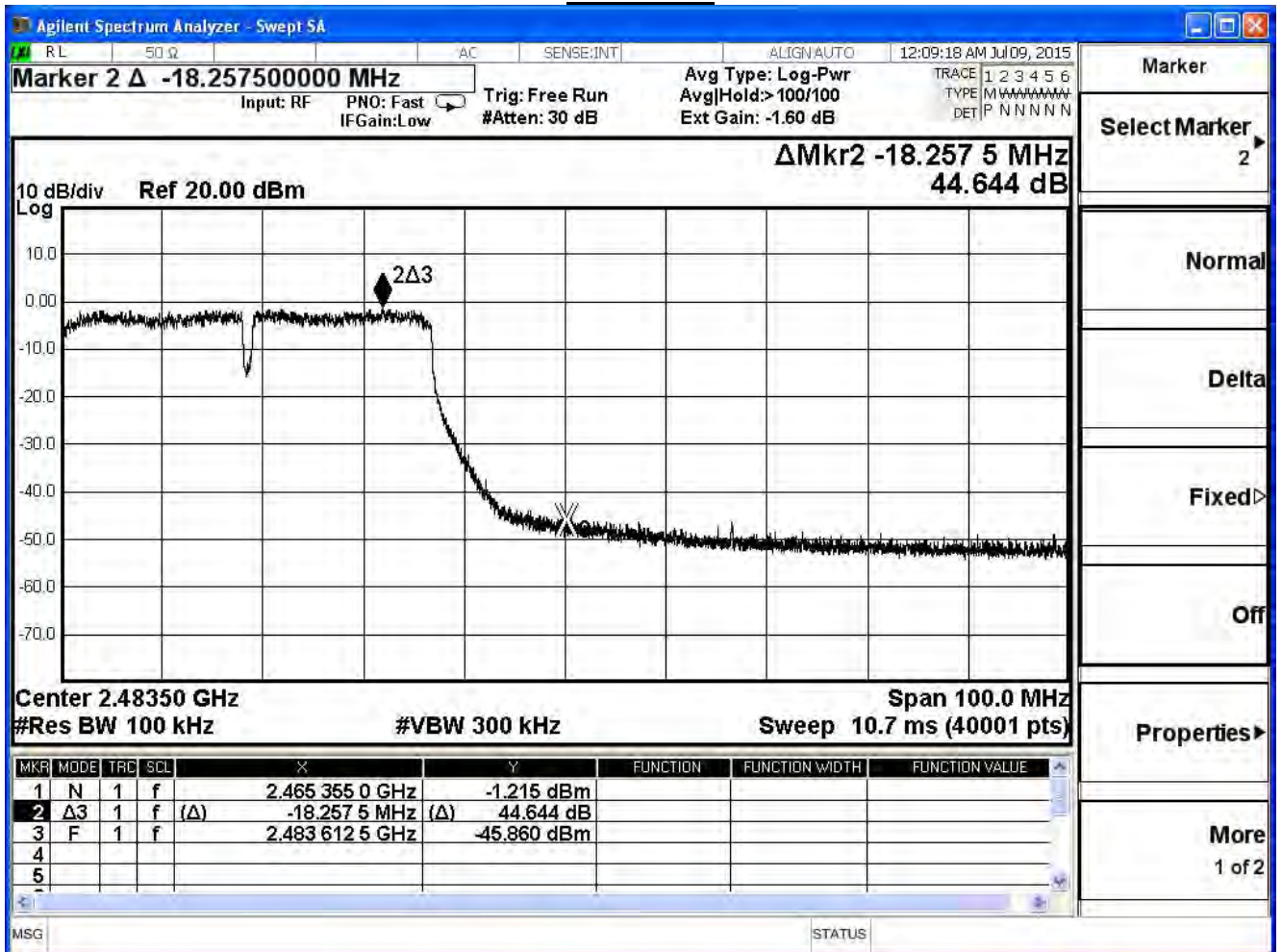
Channel 3



Channel 6

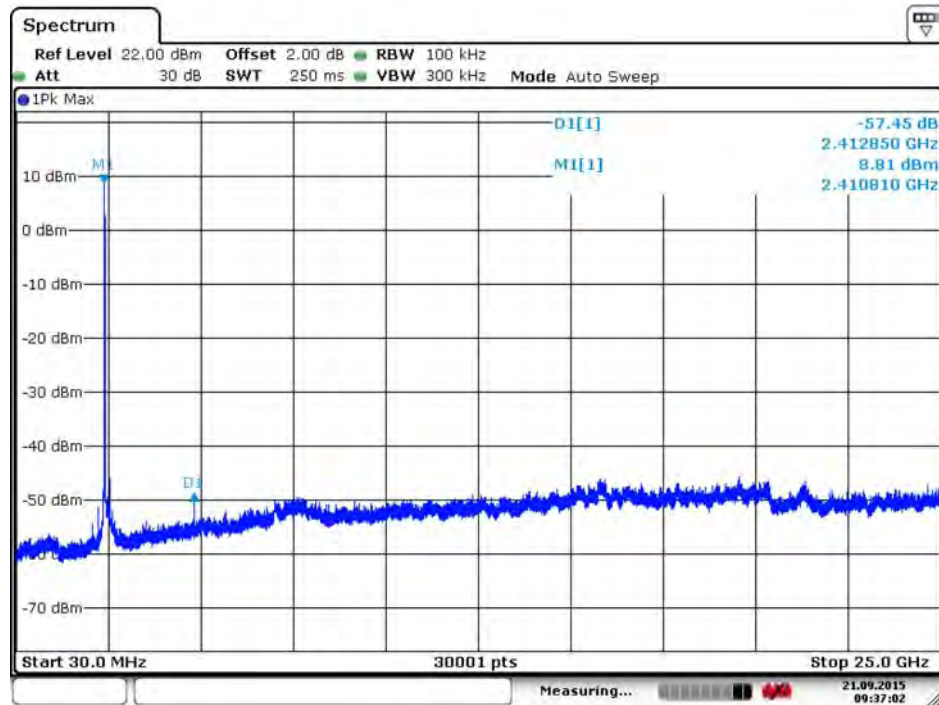


Channel 9



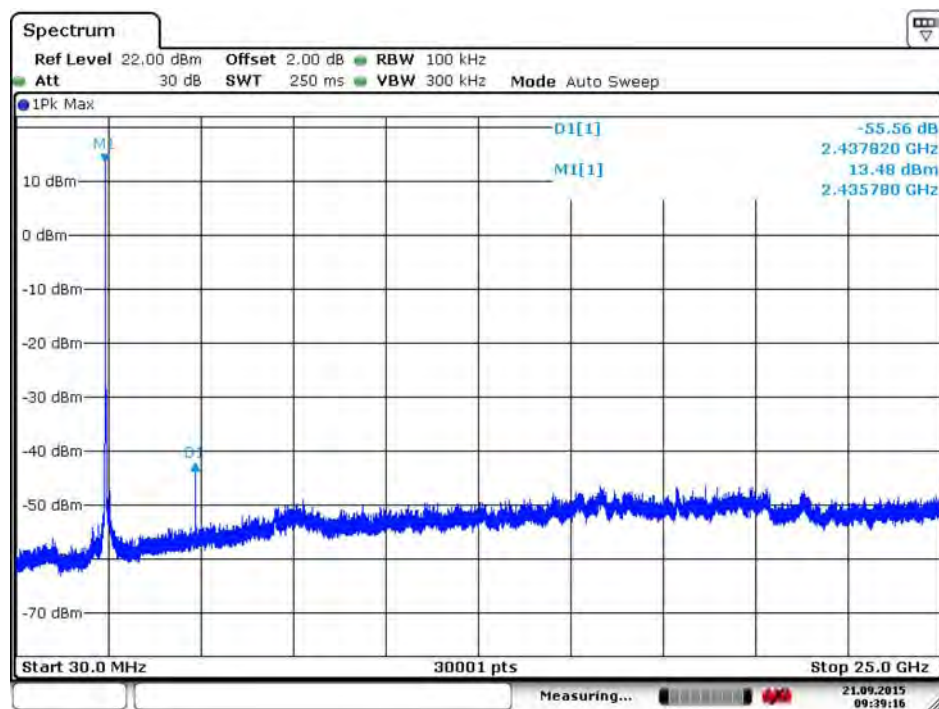
Product	Dual-band Wireless Range Extender		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_CDD Mode_AD890326		
Date of Test	2015/09/21	Test Site	SR7

2412MHz (30MHz-25GHz)-802.11b (ANT 0)



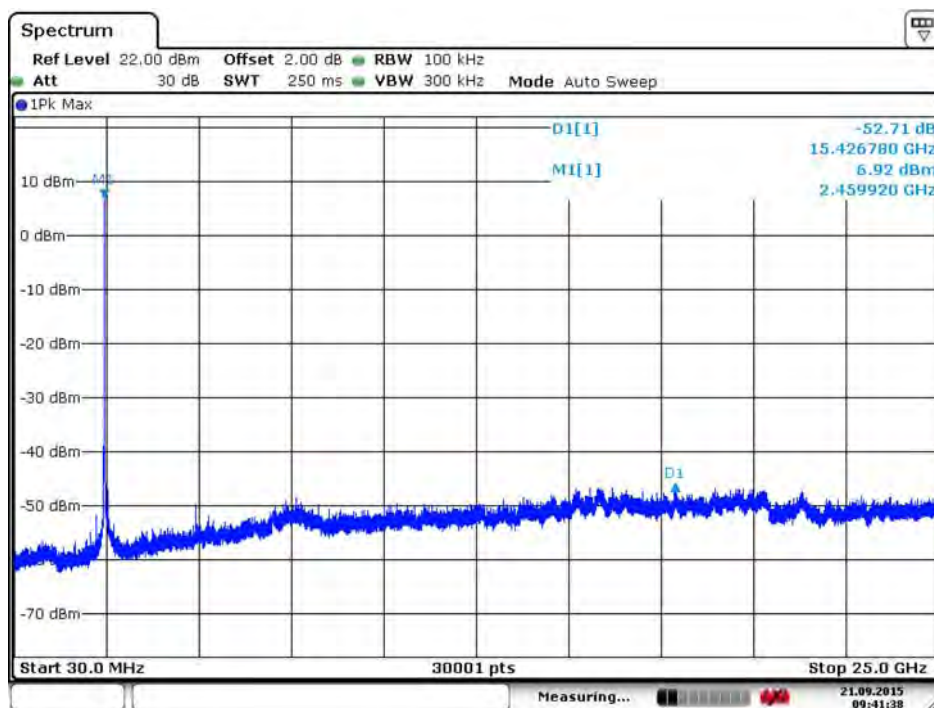
Date: 21.SEP.2015 09:37:02

2437MHz (30MHz-25GHz)-802.11b (ANT 0)



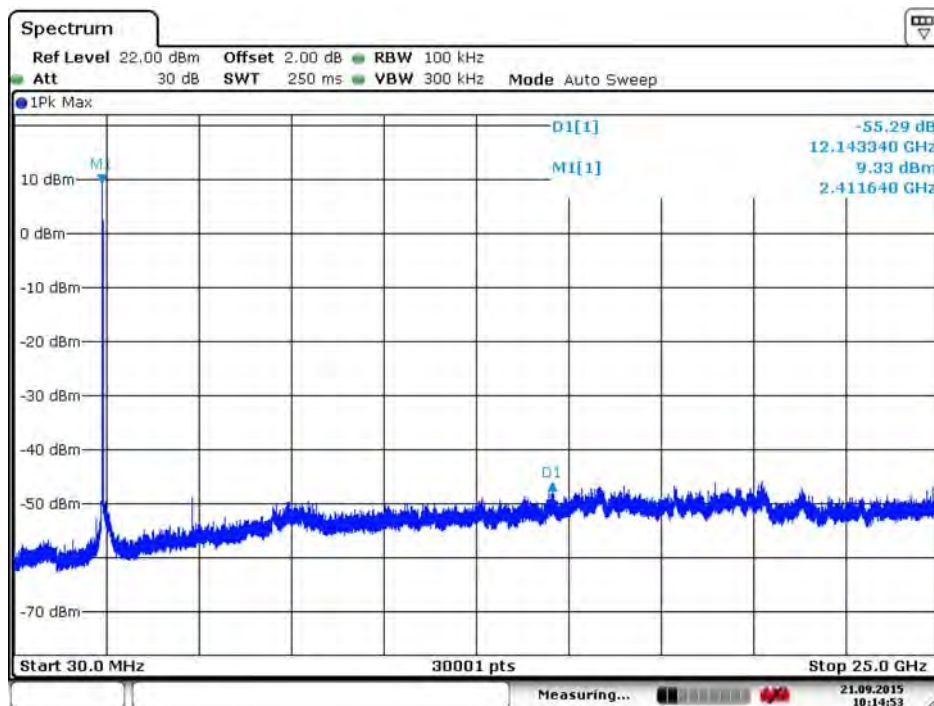
Date: 21.SEP.2015 09:39:17

2462MHz (30MHz-25GHz) -802.11b (ANT 0)



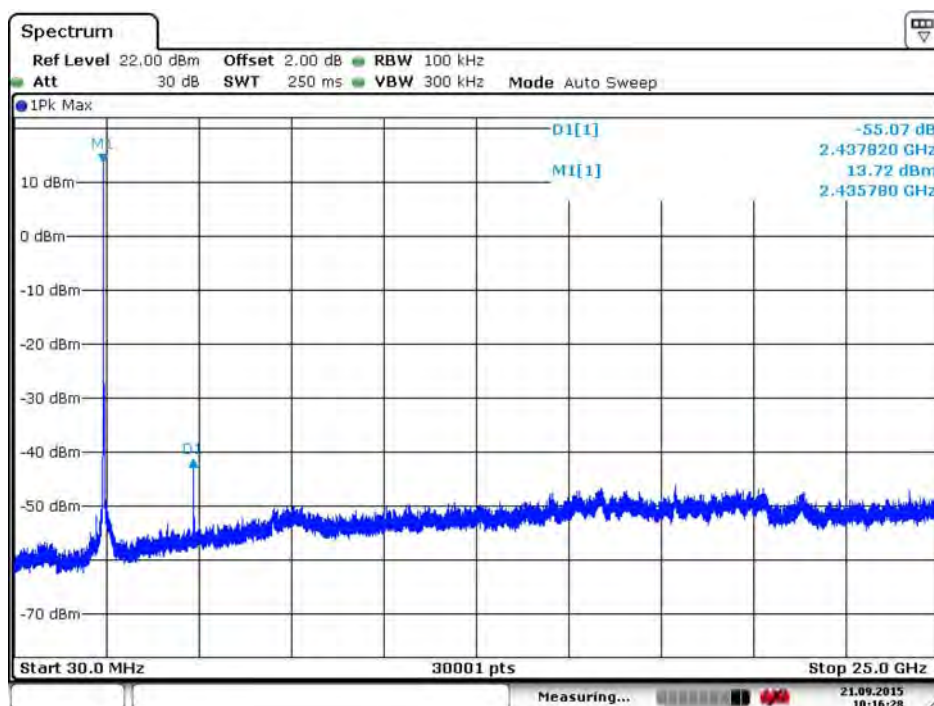
Date: 21.SEP.2015 09:41:38

2412MHz (30MHz-25GHz)-802.11b (ANT 1)



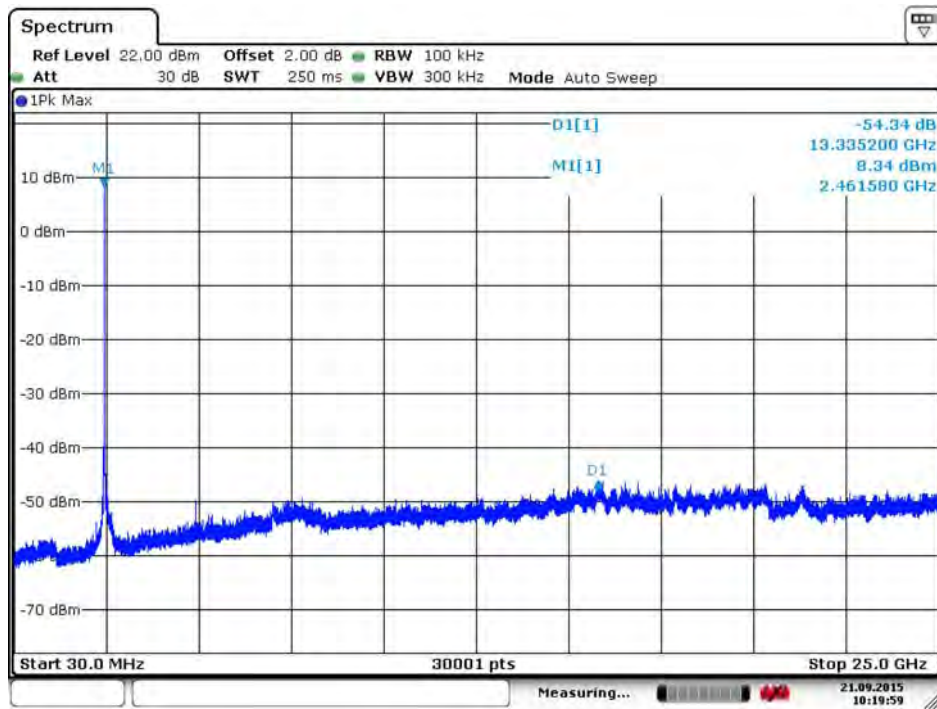
Date: 21.SEP.2015 10:14:53

2437MHz (30MHz-25GHz)-802.11b (ANT 1)



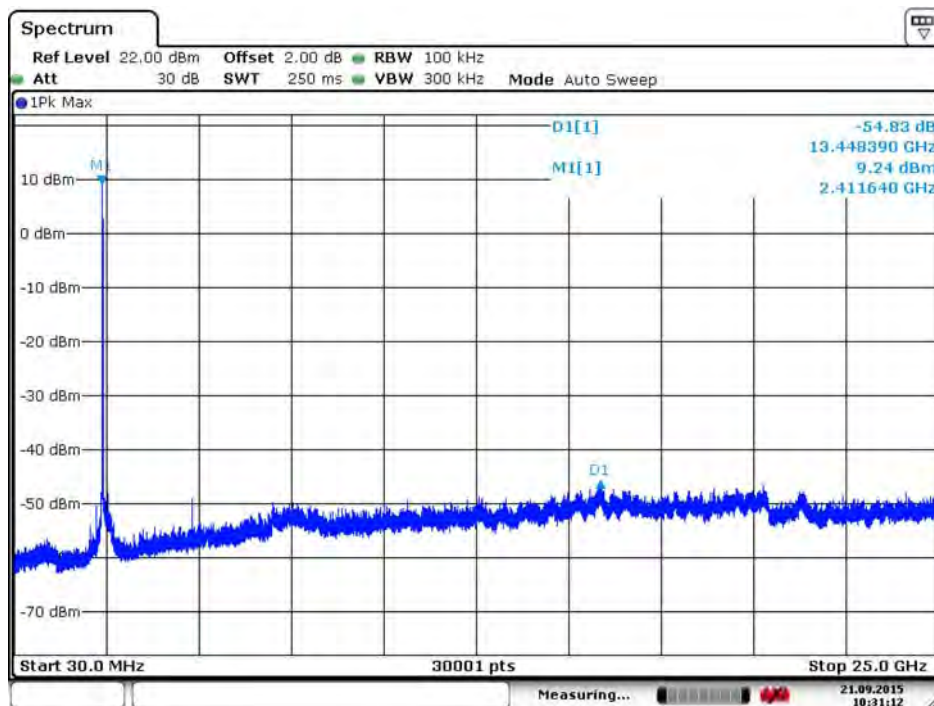
Date: 21.SEP.2015 10:16:28

2462MHz (30MHz-25GHz) -802.11b (ANT 1)



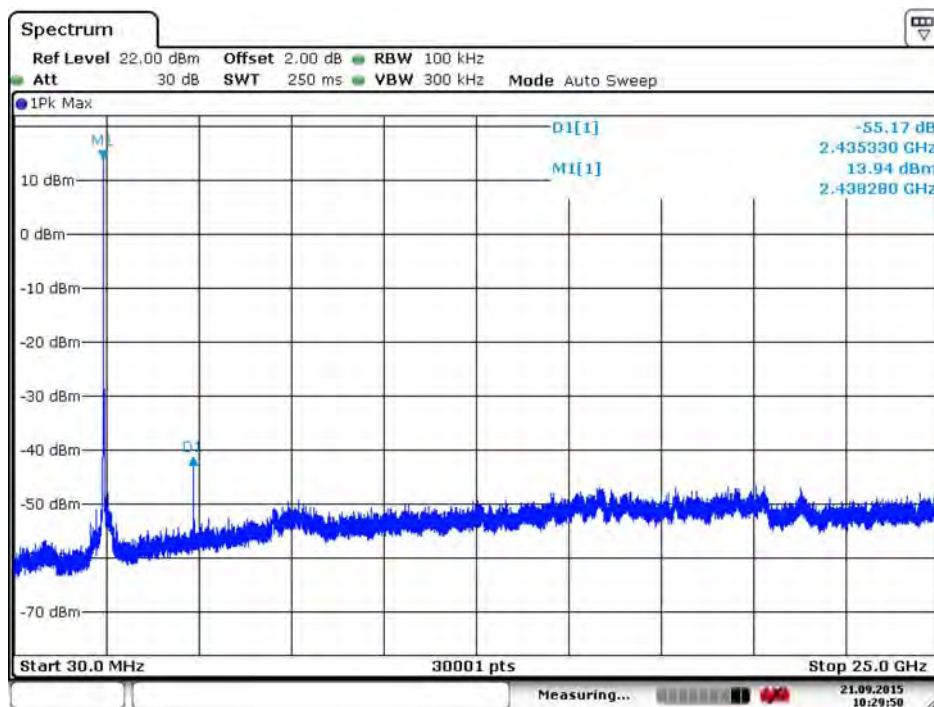
Date: 21.SEP.2015 10:19:59

2412MHz (30MHz-25GHz)-802.11b (ANT 2)



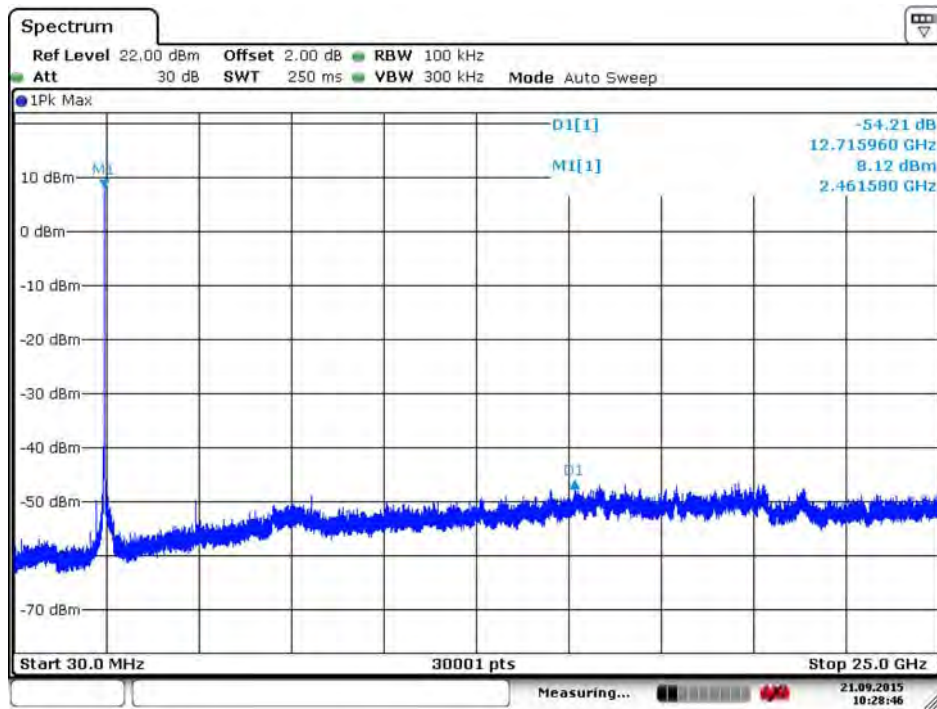
Date: 21.SEP.2015 10:31:12

2437MHz (30MHz-25GHz)-802.11b (ANT 2)



Date: 21.SEP.2015 10:29:50

2462MHz (30MHz-25GHz) -802.11b (ANT 2)



Date: 21.SEP.2015 10:28:46