FCC Test Report

Product Name ： Dual-band Wireless-AC1200 Gigabit Router

Model No. ： RT-AC56S

FCC ID. ： MSQ-RTAC56UA

Applicant ： ASUSTeK COMPUTER INC.

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

Date of Receipt ： 2014/03/21

Issued Date ： 2014/10/02

Report No. ： 1430420R-RFUSP70V00

Report Version ： V1.0

Testing Laboratory

1313

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 : 2014/10/02
Report No. : 1430420R-RFUSP70V00

QuieTek

Product Name	:	Dual-band Wireless-AC1200 Gigabit Router
Applicant	:	ASUSTeK COMPUTER INC.
Address	:	4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan
Manufacturer	:	Compal Networking (KunShan) Co.,Ltd
Model No.	:	RT-AC56S
FCC ID.	:	MSQ-RTAC56UA
EUT Voltage	:	AC 100-240V, 50-60Hz
Trade Name	:	ASUS
Applicable Standard	:	FCC CFR Title 47 Part 15 Subpart C Section 15.247:2013 ANSI C63.10
Test Result	:	Complied

The test results relate only to the samples tested.
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(Fonbo Fang / Engineering Adm. Assistant)

Tested By : Bruno Tsai

(Bruno Tsai / Assistant Engineer)

Approved By : Roy Wang

(Roy Wang / Director Manager)

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: 1313**
USA	**:**	**FCC, Registration Number: 365520**
Canada	**:**	**IC, Submission No: 150981**

The related certificate for our laboratories about the test site and management system can be downloaded from QuieTek Corporation's Web Site:http://www.quietek.com/tw/ctg/cts/accreditations.htm
The address and introduction of QuieTek Corporation's laboratories can be founded in our Web site : http://www.quietek.com/
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1. General Information

1.1. EUT Description

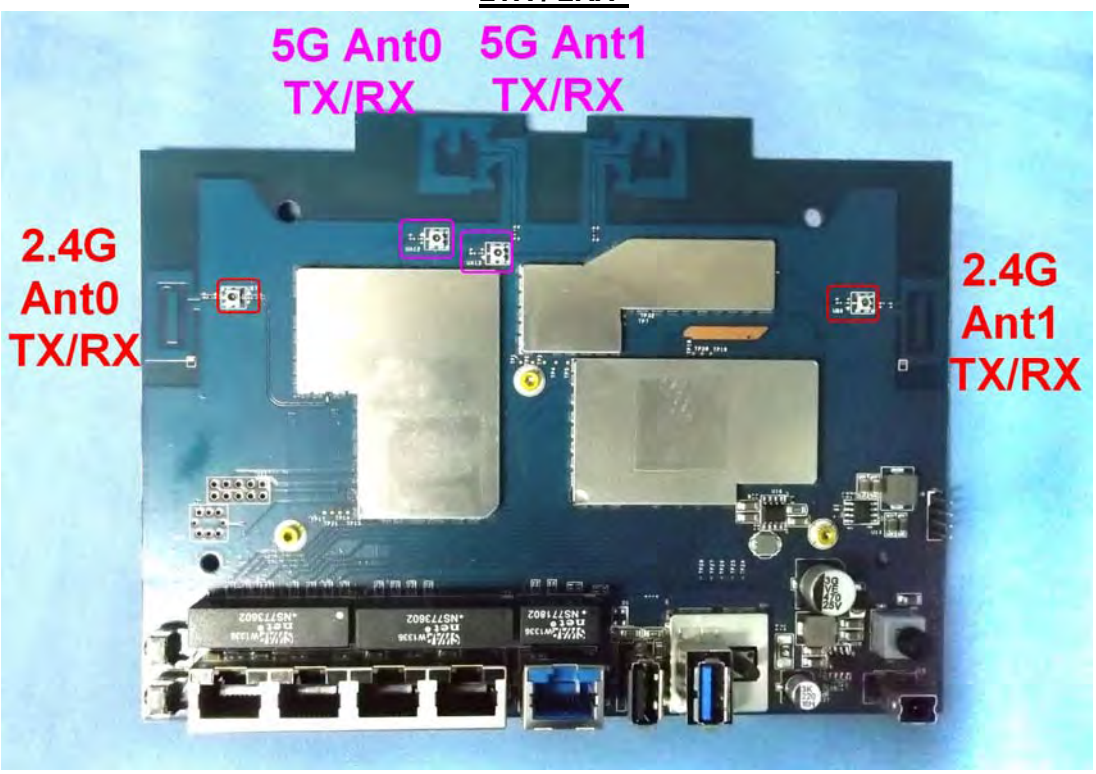
Product Name	Dual-band Wireless-AC1200 Gigabit Router	
Product Type	WLAN(2TX,2RX)	
Trade Name	ASUS	
Model No.	RT-AC56S	
Frequency Range/ Channel Number	IEEE 802.11b/g/ IEEE 802.11n(20MHz)_2.4GHz	2412~2462MHz / 11 Channels
	IEEE 802.11n(40MHz)_2.4GHz	2422~2452MHz / 7 Channels
	IEEE 802.11a/ IEEE 802.11n/ac(20MHz)_5.8GHz	5745~5825MHz / 5 Channels
	IEEE 802.11n/ac(40MHz)_5.8GHz	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 15 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	2.4G: Ant0:3.71dBi, Ant1:3.71dBi 5.8G: Ant0:3.79dBi, Ant1:3.79dBi	
Beamforming Gain	2.4G: NA 5.8G: 3dB	
Antenna Type	PCB on Antenna	

Component	
LAN Cable	YFC-BONEAGLE , Non-Shielded, 1.5m
LAN Cable	Cablex Electronics , Non-Shielded, 1.5m
LAN Cable	SHENZHEN , Non-Shielded, 1.5m
Power Adatper	I.T.E. POWER SUPPLY, MU24-V120200-A1 I/P: 100-240V ~ 50/60Hz 1.0A O/P: 12V⎓ 2A Cable out: Non-Shielded, 1.6m

ANT-TX / RX & Bandwidth

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

2TX / 2RX



IEEE 802.11n

MCS Index	Modulation	R	N_{BPSCS}	N_{CBPS}		N_{DBPS}		Data Rate(Mb/s)			
								800ns GI		400ns GI	
				20MHz	40MHz	20MHz	40MHz	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)			
								800ns GI		400ns GI	
				20MHz	40MHz	20MHz	40MHz	20MHz	40MHz	20MHz	40MHz
8	BPSK	1/2	1	104	216	52	108	13.0	27.0	14.4	30.0
9	QPSK	1/2	2	208	432	104	216	26.0	54.0	28.9	60.0
10	QPSK	3/4	2	208	432	156	324	39.0	81.0	43.3	90.0
11	16-QAM	1/2	4	416	864	208	432	52.0	108.0	57.8	120.0
12	16-QAM	3/4	4	416	864	312	648	78.0	162.0	86.7	180.0
13	64-QAM	2/3	6	624	1296	416	864	104.0	216.0	115.6	240.0
14	64-QAM	3/4	6	624	1296	468	972	117.0	243.0	130.0	270.0
15	64-QAM	5/6	6	624	1296	520	1080	130.0	270.0	144.4	300.0
Note 1: Support of 400ns GI is optional on transmit and receive.											

Table 2 – MCS parameters for TX Antenna number = 2

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

IEEE 802.11ac 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

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/ac (20MHz) - 5.8GHz

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/ac (40MHz) - 5.8GHz

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

IEEE 802.11ac (80MHz) - 5.8GHz

Working Frequency of Each Channel	
Channel	Frequency
155	5775 MHz

Note:

1. This device is a Dual-band Wireless-AC1200 Gigabit Router including 2.4GHz b/g/n and 5GHz a/n/ac (2x2) 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: 1430420R-RFUSP43V00.
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 1430420R-RFUSP15V00 under Declaration of Conformity.

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) Mode 2: Transmit (Beamforming mode)

Test Items	Mode	Modulation	Channel	Antenna	Result
Conducted Emission	1	11n(40MHz)	6	0+1	Complies
	1	11ac(80MHz)	155	0+1	Complies
Peak Power Output	1/2	a	149/ 157/ 165	0+1	Complies
	1/2	b /g	1/ 6/ 11	0+1	Complies
	1/2	11n/ac(20MHz)	1/ 6/ 11/ 149/ 157/ 165	0+1	Complies
	1/2	11n/ac(40MHz)	3/ 6/ 9/ 151/ 159	0+1	Complies
	1/2	11ac(80MHz)	155	0+1	Complies
Radiated Emission	1	a	149/ 157/ 165	0+1	Complies
	1	b /g	1/ 6/ 11	0+1	Complies
	1	11n/ac(20MHz)	1/ 6/ 11/ 149/ 157/ 165	0+1	Complies
	1	11n/ac(40MHz)	3/ 6/ 9/ 151/ 159	0+1	Complies
	1	11ac(80MHz)	155	0+1	Complies
RF antenna conducted test	1	a	149/157/165	0/1	Complies
	1	b /g	1/ 6/ 11	0/1	Complies
	1	11n/ac(20MHz)	1/ 11/ 149/ 165	0/1	Complies
	1	11n/ac(40MHz)	3/ 9/ 151/ 159	0/1	Complies
	1	11ac(80MHz)	155	0/1	Complies
Radiated Emission Band Edge	1	a	149/ 157/ 165	0+1	Complies
	1	b /g	1/ 11	0+1	Complies
	1	11n/ac(20MHz)	1/ 11/ 149/ 165	0+1	Complies
	1	11n/ac(40MHz)	3/ 9/ 151/ 159	0+1	Complies
	1	11n/ac(80MHz)	155	0+1	Complies
Occupied Bandwidth	1	a	149/ 157/ 165	0/1	Complies
	1	b /g	1/ 6/ 11	0/1	Complies
	1	11n/ac(20MHz)	1/ 6/ 11/ 149/ 157/ 165	0/1	Complies
	1	11n/ac(40MHz)	3/ 6/ 9/ 151/ 159	0/1	Complies
	1	11ac(80MHz)	155	0/1	Complies

Test Items	Mode	Modulation	Channel	Antenna	Result
Power Density	1/2	a	149/ 157/ 165	0+1	Complies
	1/2	b /g	1/ 6/ 11	0+1	Complies
	1/2	11n/ac(20MHz)	1/ 6/ 11/ 149/ 157/ 165	0+1	Complies
	1/2	11n/ac(40MHz)	3/ 6/ 9/ 151/ 159	0+1	Complies
	1/2	11ac(80MHz)	155	0+1	Complies

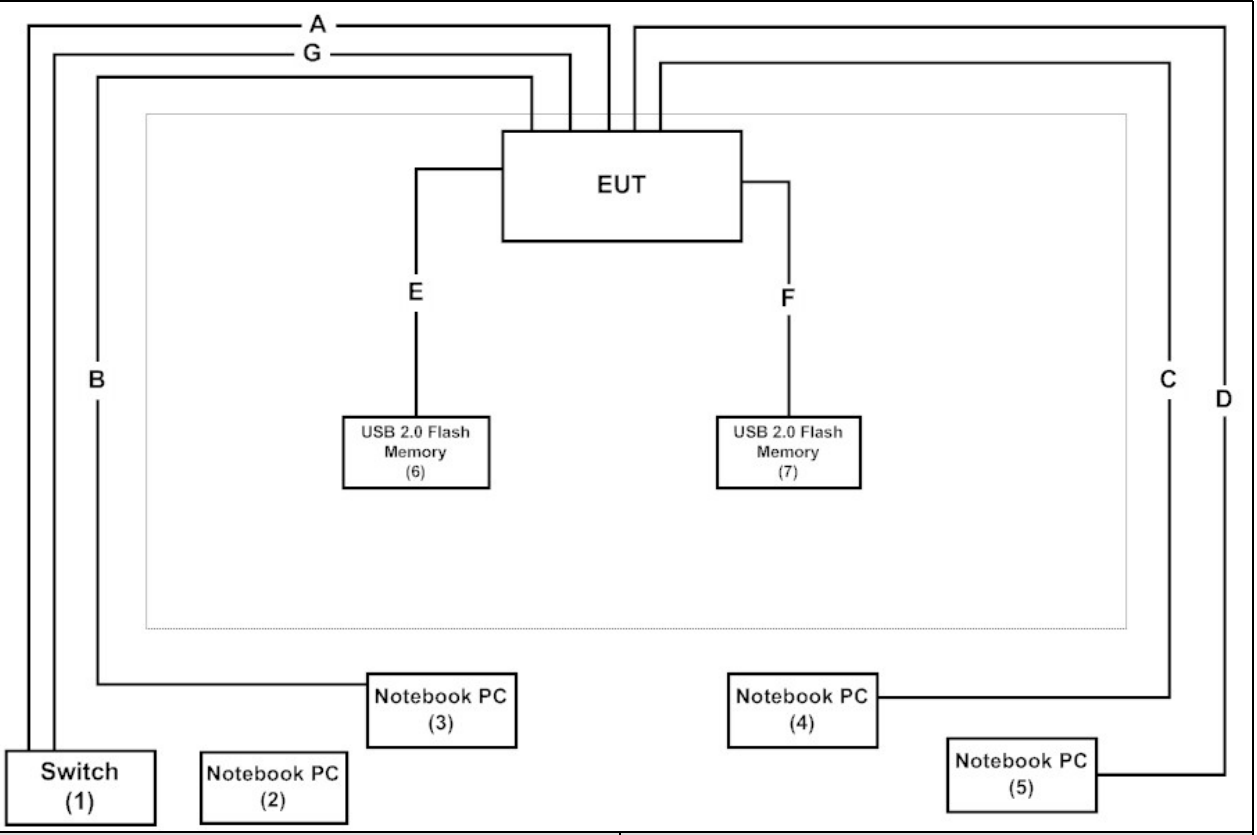
1.3. Tested System Details

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

Product		Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
1	Switch	D-Link	DGS1216T	F360298000042	DoC	Non-Shielded, 1.8m
2	Notebook PC	HP	HSTNN-146C	CNU8253S1X	DoC	Non-Shielded, 1.8m
3	Notebook PC	DELL	Vostro3400	7F808N1	DoC	Non-Shielded, 1.8m
4	Notebook PC	ACER	MS2296	LUSCV021391150332C2000	DoC	Non-Shielded, 2.5m one ferrite core bonded
5	Notebook PC	ACER	PAV70	LUSEW0D0371105FE221601	DoC	Non-Shielded, 2.5m one ferrite core bonded
6	USB 2.0 Flash Memory	Apacer	AH223	N/A	DoC	--
7	USB 2.0 Flash Memory	Apacer	AH223	N/A	DoC	--

1.4. Configuration of tested System

Connection Diagram



Signal Cable Type		Signal cable Description
A	LAN Cable	Non-Shielded, 1.5m
B	LAN Cable	Non-Shielded, 1.5m
C	LAN Cable	Non-Shielded, 1.5m
D	LAN Cable	Non-Shielded, 1.5m
E	USB 2.0 Flash Memory Cable	Shielded, 1m
F	USB 2.0 Flash Memory Cable	Shielded, 1m
G	LAN Cable	Non-Shielded, 1.5m

1.5. EUT Exercise Software

1	Setup the EUT as shown in Section 1.4.
2	Execute the control program “Mtool Ver.2.0.0.7” 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
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Peak Power Output	15 - 35	25
Humidity (%RH)		25 - 75	45
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Radiated Emission	15 - 35	25
Humidity (%RH)		25 - 75	65
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 RF antenna conducted test	15 - 35	25
Humidity (%RH)		25 - 75	45
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Band Edge	15 - 35	25
Humidity (%RH)		25 - 75	48
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Occupied Bandwidth	15 - 35	25
Humidity (%RH)		25 - 75	45
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Power Density	15 - 35	25
Humidity (%RH)		25 - 75	45
Barometric pressure (mbar)		860 - 1060	950-1000

2. Conducted Emission

2.1. Test Equipment

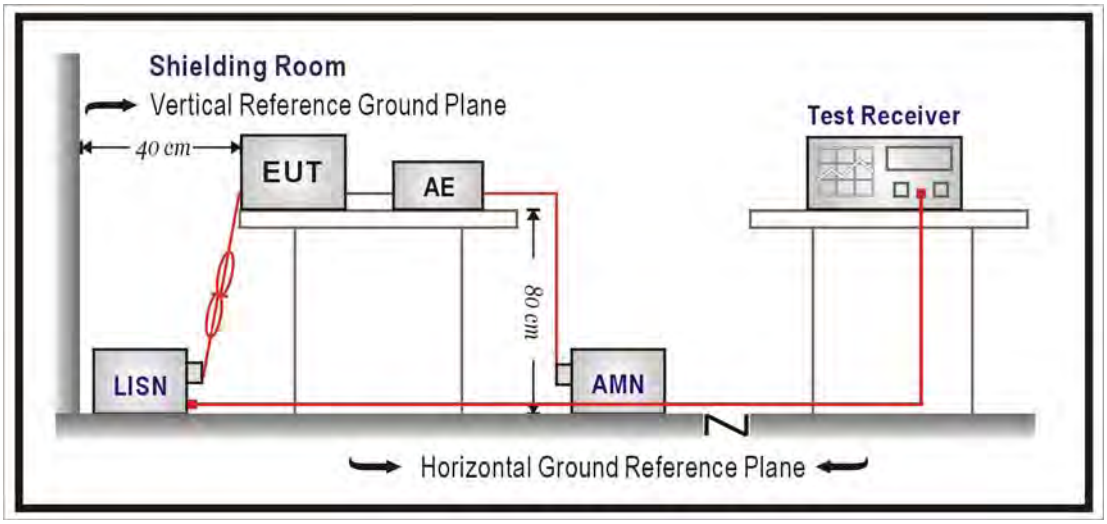
The following test equipments are used during the test:

Conducted Emission / SR2

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Artificial Mains Network	R&S	ENV4200	848411/010	2015/02/09
LISN	R&S	ENV216	100092	2015/08/24
Test Receiver	R&S	ESCS 30	825442/014	2015/07/13

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

2.2. Test Setup



2.3. Limits

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

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

2.4. Test Procedure

The EUT was setup according to ANSI C63.10 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

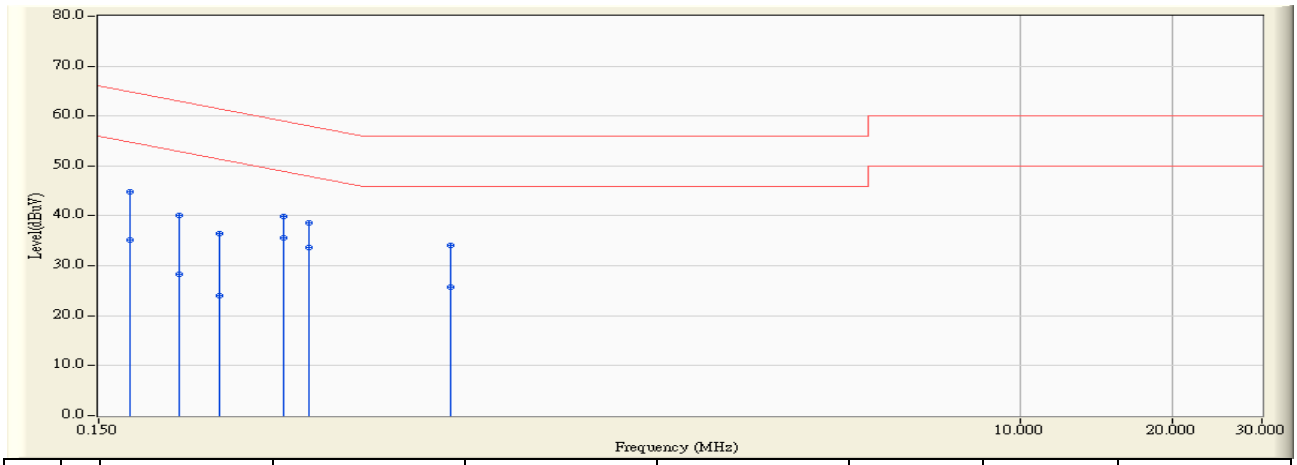
According to FCC Part 15 Subpart C Paragraph 15.207: 2012

2.6. Uncertainty

The measurement uncertainty is defined as ± 2.26 dB.

2.7. Test Result

Site : SR2	**Time : 2014/08/09 - 17:35**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR2_LISN(16A)-3_0822 - Line1	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router	**Note : Mode 1:Transmit (CDD mode)_802.11n(40MHz)_2437MHz**

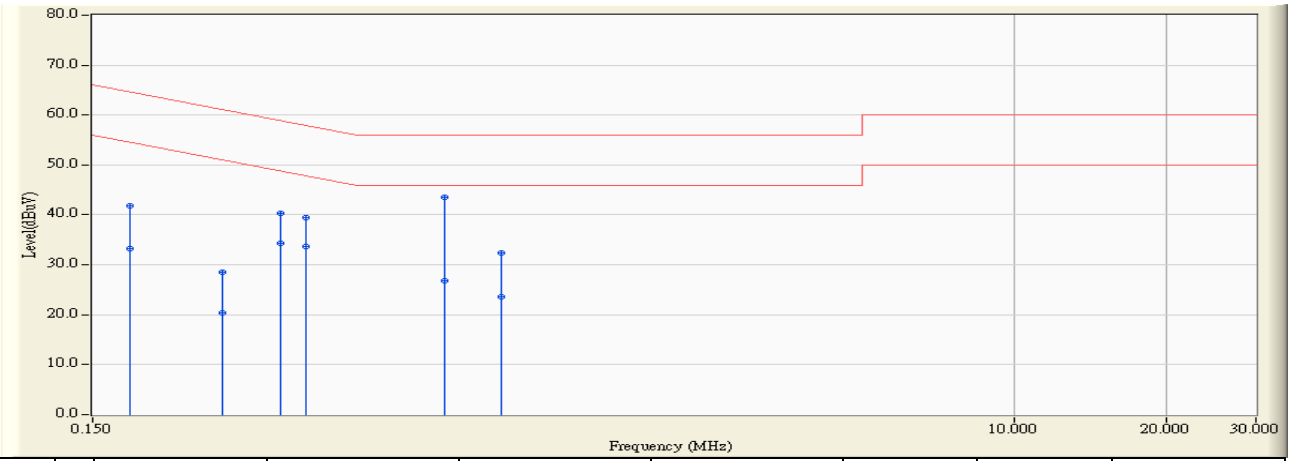


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.173	9.639	35.130	44.769	-20.025	64.794	QUASIPEAK
2		0.173	9.639	25.440	35.079	-19.715	54.794	AVERAGE
3		0.216	9.649	30.560	40.209	-22.744	62.953	QUASIPEAK
4		0.216	9.649	18.580	28.229	-24.724	52.953	AVERAGE
5		0.259	9.661	26.730	36.391	-25.060	61.451	QUASIPEAK
6		0.259	9.661	14.360	24.021	-27.430	51.451	AVERAGE
7		0.349	9.687	30.120	39.807	-19.174	58.981	QUASIPEAK
8	*	0.349	9.687	25.860	35.547	-13.434	48.981	AVERAGE
9		0.392	9.699	29.000	38.699	-19.318	58.017	QUASIPEAK
10		0.392	9.699	24.050	33.749	-14.268	48.017	AVERAGE
11		0.748	9.736	24.300	34.036	-21.964	56.000	QUASIPEAK
12		0.748	9.736	15.900	25.636	-20.364	46.000	AVERAGE

Note:

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

Site : SR2	**Time : 2014/08/09 - 17:37**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR2_LISN(16A)-3_0822 - Line2	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router	**Note : Mode 1:Transmit (CDD mode)_802.11n(40MHz)_2437MHz**

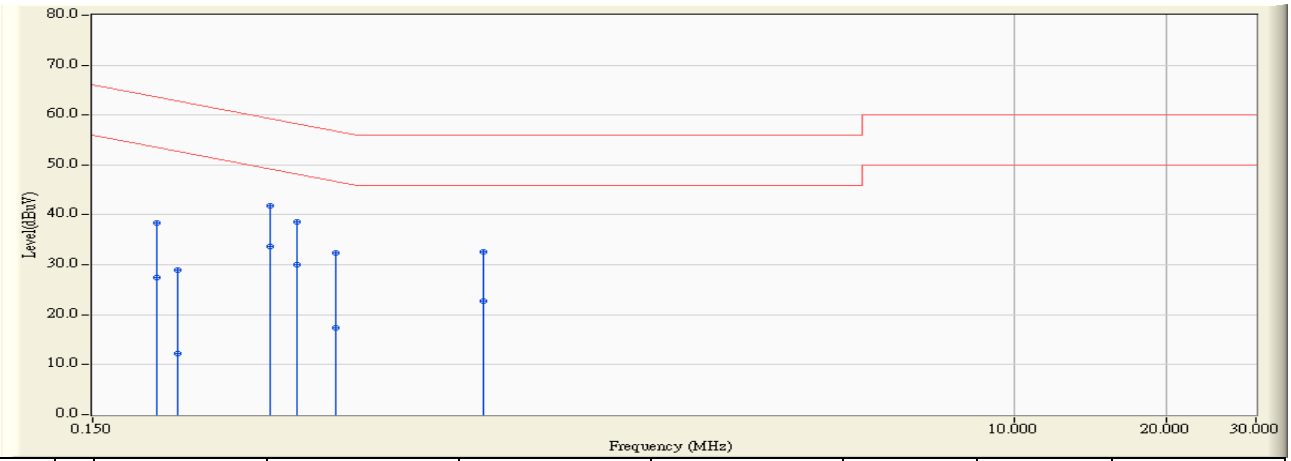


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.177	9.628	32.220	41.848	-22.762	64.609	QUASIPEAK
2		0.177	9.628	23.650	33.278	-21.332	54.609	AVERAGE
3		0.271	9.651	18.810	28.461	-32.624	61.084	QUASIPEAK
4		0.271	9.651	10.640	20.291	-30.794	51.084	AVERAGE
5		0.353	9.670	30.550	40.220	-18.668	58.889	QUASIPEAK
6		0.353	9.670	24.600	34.270	-14.618	48.889	AVERAGE
7		0.396	9.680	29.800	39.480	-18.454	57.934	QUASIPEAK
8		0.396	9.680	24.030	33.710	-14.224	47.934	AVERAGE
9	*	0.748	9.716	33.900	43.616	-12.384	56.000	QUASIPEAK
10		0.748	9.716	17.160	26.876	-19.124	46.000	AVERAGE
11		0.963	9.719	22.710	32.429	-23.571	56.000	QUASIPEAK
12		0.963	9.719	13.940	23.659	-22.341	46.000	AVERAGE

Note:

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

Site : SR2	**Time : 2014/08/09 - 17:46**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR2_LISN(16A)-3_0822 - Line1	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router	**Note : Mode 1:Transmit (CDD mode)_802.11ac(80MHz)_5775MHz**

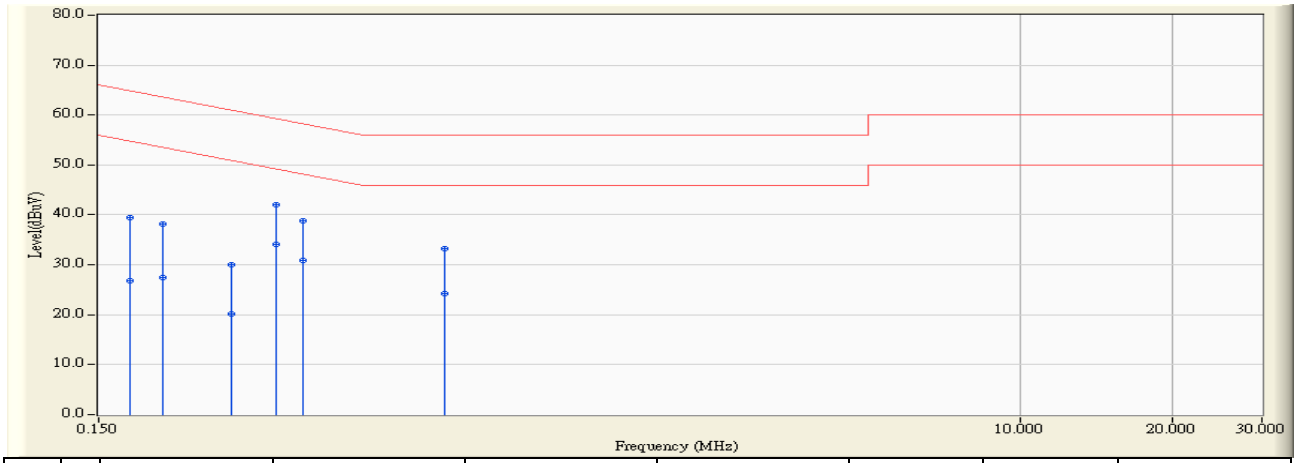


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.201	9.645	28.640	38.285	-25.293	63.578	QUASIPEAK
2		0.201	9.645	17.840	27.485	-26.093	53.578	AVERAGE
3		0.220	9.650	19.210	28.860	-33.947	62.807	QUASIPEAK
4		0.220	9.650	2.660	12.310	-40.497	52.807	AVERAGE
5		0.338	9.683	32.060	41.743	-17.521	59.265	QUASIPEAK
6	*	0.338	9.683	23.950	33.633	-15.631	49.265	AVERAGE
7		0.380	9.696	28.940	38.636	-19.634	58.269	QUASIPEAK
8		0.380	9.696	20.420	30.116	-18.154	48.269	AVERAGE
9		0.455	9.718	22.670	32.388	-24.401	56.789	QUASIPEAK
10		0.455	9.718	7.600	17.318	-29.471	46.789	AVERAGE
11		0.888	9.738	22.870	32.608	-23.392	56.000	QUASIPEAK
12		0.888	9.738	12.940	22.678	-23.322	46.000	AVERAGE

Note:

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

Site : SR2	**Time : 2014/08/09 - 17:51**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR2_LISN(16A)-3_0822 - Line2	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router	**Note : Mode 1:Transmit (CDD mode)_802.11ac(80MHz)_5775MHz**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.173	9.626	29.880	39.506	-25.288	64.794	QUASIPEAK
2		0.173	9.626	17.260	26.886	-27.908	54.794	AVERAGE
3		0.201	9.634	28.540	38.174	-25.404	63.578	QUASIPEAK
4		0.201	9.634	17.920	27.554	-26.024	53.578	AVERAGE
5		0.275	9.651	20.360	30.012	-30.954	60.966	QUASIPEAK
6		0.275	9.651	10.490	20.142	-30.824	50.966	AVERAGE
7		0.338	9.666	32.320	41.987	-17.278	59.265	QUASIPEAK
8	*	0.338	9.666	24.530	34.197	-15.068	49.265	AVERAGE
9		0.380	9.677	29.240	38.917	-19.353	58.269	QUASIPEAK
10		0.380	9.677	21.180	30.857	-17.413	48.269	AVERAGE
11		0.724	9.715	23.590	33.305	-22.695	56.000	QUASIPEAK
12		0.724	9.715	14.510	24.225	-21.775	46.000	AVERAGE

Note:

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

3. Peak Power Output

3.1. Test Equipment

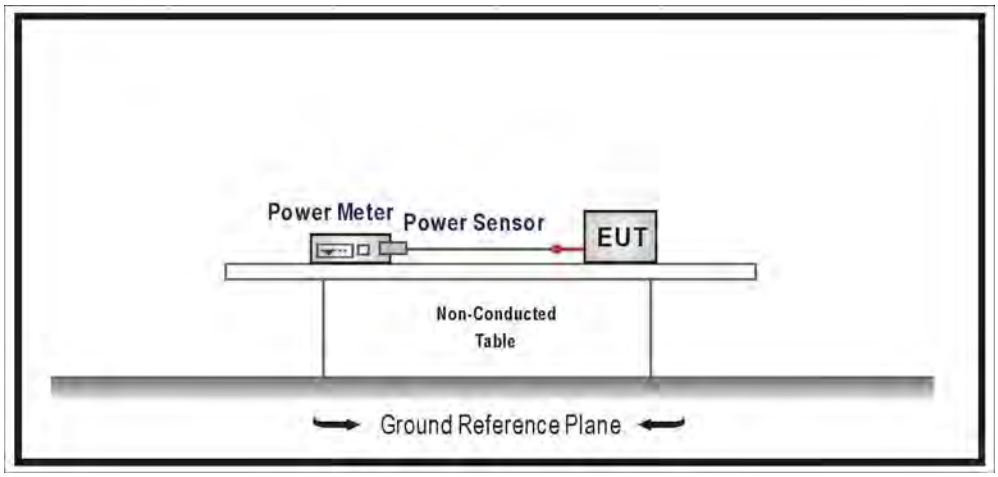
The following test equipments are used during the test:

Peak Power / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Power Meter	Agilent	N1911A	MY45101353	2013/12/04
Power Sensor	Agilent	N1921A	MY45241670	2013/12/04

Note: 1. 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 of April 2013 KDB558074, Section 9.2.3.2 Measurement Procedure 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: 2013

3.6. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB.

3.7. Test Result

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Peak Power Output		
Test Mode	Mode 1:Transmit (CDD mode)		
Date of Test	2013/08/29	Test Site	SR7

IEEE 802.11b				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	25.04	≦30	Pass
6	2437	25.06	≦30	Pass
11	2462	24.98	≦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	25.04	--	--	--	1 Watt=30dBm
6	2437	25.06	24.86	24.74	24.52	1 Watt=30dBm
11	2462	24.98	--	--	--	1 Watt=30dBm

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Peak Power Output		
Test Mode	Mode 1:Transmit (CDD mode)		
Date of Test	2013/08/29	Test Site	SR7

IEEE 802.11g (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	21.22	≦30	Pass
6	2437	22.26	≦30	Pass
11	2462	22.12	≦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	21.22	--	--	--	--	--	--	1 Watt=30dBm
6	2437	22.26	22.14	21.94	21.72	21.46	21.22	20.98	1 Watt=30dBm
11	2462	22.12	--	--	--	--	--	--	1 Watt=30dBm

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Peak Power Output		
Test Mode	Mode 1:Transmit (CDD mode)		
Date of Test	2013/08/29	Test Site	SR7

IEEE 802.11g (ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	21.10	≦30	Pass
6	2437	22.04	≦30	Pass
11	2462	20.53	≦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	21.10	--	--	--	--	--	--	1 Watt=30dBm
6	2437	22.04	21.84	21.72	21.62	21.50	21.26	21.02	1 Watt=30dBm
11	2462	20.53	--	--	--	--	--	--	1 Watt=30dBm

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Peak Power Output		
Test Mode	Mode 1:Transmit (CDD mode)		
Date of Test	2013/08/29	Test Site	SR7

IEEE 802.11g (ANT 0+1)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	24.17	≦30	Pass
6	2437	25.16	≦30	Pass
11	2462	24.41	≦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	24.17	--	--	--	--	--	--	1 Watt=30dBm
6	2437	25.16	25.12	25.01	24.96	24.92	24.83	24.74	1 Watt=30dBm
11	2462	24.41	--	--	--	--	--	--	1 Watt=30dBm

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Peak Power Output		
Test Mode	Mode 1:Transmit (CDD mode)		
Date of Test	2013/08/29	Test Site	SR7

IEEE 802.11n 20MHz (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	19.78	≦30	Pass
6	2437	22.26	≦30	Pass
11	2462	19.13	≦30	Pass

The worst emission of data rate is 6.5Mbps.

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		6.5	13	19.5	26	39	52	58..5	65	
1	2412	19.78	--	--	--	--	--	--	--	1Watt=30dBm
6	2437	22.26	22.02	21.82	21.71	21.58	21.46	21.22	21.00	1Watt=30dBm
11	2462	19.13	--	--	--	--	--	--	--	1Watt=30dBm

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Peak Power Output		
Test Mode	Mode 1:Transmit (CDD mode)		
Date of Test	2013/08/29	Test Site	SR7

IEEE 802.11n 20MHz (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	19.56	≦30	Pass
6	2437	22.38	≦30	Pass
11	2462	18.86	≦30	Pass

The worst emission of data rate is 6.5 Mbps.

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		6.5	13	19.5	26	39	52	58..5	65	
1	2412	19.56	--	--	--	--	--	--	--	1Watt=30dBm
6	2437	22.38	22.18	22.06	21.96	21.72	21.60	21.48	21.35	1Watt=30dBm
11	2462	18.86	--	--	--	--	--	--	--	1Watt=30dBm

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Peak Power Output		
Test Mode	Mode 1:Transmit (CDD mode)		
Date of Test	2013/08/29	Test Site	SR7

IEEE 802.11n 20MHz (ANT 0+1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	22.68	≦30	Pass
6	2437	25.33	≦30	Pass
11	2462	22.01	≦30	Pass

The worst emission of data rate is 6.5 Mbps.

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		6.5	13	19.5	26	39	52	58..5	65	
1	2412	22.68	--	--	--	--	--	--	--	1Watt=30dBm
6	2437	25.33	25.26	25.14	25.09	25.02	24.97	24.81	24.76	1Watt=30dBm
11	2462	22.01	--	--	--	--	--	--	--	1Watt=30dBm

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Peak Power Output		
Test Mode	Mode 1:Transmit (CDD mode)		
Date of Test	2013/08/29	Test Site	SR7

IEEE802.11n 40MHz(ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	17.05	≦30	Pass
6	2437	17.45	≦30	Pass
9	2452	12.82	≦30	Pass

The worst emission of data rate is 13.5Mbps

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13.5	27	40.5	54	81	108	121.5	135	
3	2422	17.05	--	--	--	--	--	--	--	1Watt=30dBm
6	2437	17.45	17.25	17.03	16.93	16.83	16.71	16.58	16.34	1Watt=30dBm
9	2452	12.82	--	--	--	--	--	--	--	1Watt=30dBm

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Peak Power Output		
Test Mode	Mode 1:Transmit (CDD mode)		
Date of Test	2013/08/29	Test Site	SR7

IEEE802.11n 40MHz(ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	17.23	≦30	Pass
6	2437	17.79	≦30	Pass
9	2452	14.42	≦30	Pass

The worst emission of data rate is 13.5Mbps

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13.5	27	40.5	54	81	108	121.5	135	
3	2422	17.23	--	--	--	--	--	--	--	1Watt=30dBm
6	2437	17.79	17.69	17.59	17.33	17.23	16.99	16.87	16.75	1Watt=30dBm
9	2452	14.42	--	--	--	--	--	--	--	1Watt=30dBm

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Peak Power Output		
Test Mode	Mode 1:Transmit (CDD mode)		
Date of Test	2013/08/29	Test Site	SR7

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

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	20.15	≦30	Pass
6	2437	20.63	≦30	Pass
9	2452	16.70	≦30	Pass

The worst emission of data rate is 13.5Mbps

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13.5	27	40.5	54	81	108	121.5	135	
3	2422	20.15	--	--	--	--	--	--	--	1Watt=30dBm
6	2437	20.63	20.59	20.58	20.33	20.23	20.19	20.17	20.05	1Watt=30dBm
9	2452	16.70	--	--	--	--	--	--	--	1Watt=30dBm

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Peak Power Output		
Test Mode	Mode 1:Transmit (CDD mode)		
Date of Test	2013/08/29	Test Site	SR7

IEEE 802.11a (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	23.85	≦30	Pass
157	5785	23.92	≦30	Pass
165	5825	23.81	≦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	23.85	--	--	--	--	--	--	1 Watt=30dBm
157	5785	23.92	23.81	23.71	23.51	23.39	23.27	23.12	1 Watt=30dBm
165	5825	23.81	--	--	--	--	--	--	1 Watt=30dBm

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Peak Power Output		
Test Mode	Mode 1:Transmit (CDD mode)		
Date of Test	2013/08/29	Test Site	SR7

IEEE 802.11a (ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	23.75	≦30	Pass
157	5785	23.89	≦30	Pass
165	5825	23.92	≦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	23.75	--	--	--	--	--	--	1 Watt=30dBm
157	5785	23.89	23.79	23.55	23.35	23.25	22.99	22.87	1 Watt=30dBm
165	5825	23.92	--	--	--	--	--	--	1 Watt=30dBm

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Peak Power Output		
Test Mode	Mode 1:Transmit (CDD mode)		
Date of Test	2013/08/29	Test Site	SR7

IEEE 802.11a (ANT 0+1)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	26.81	≦30	Pass
157	5785	26.92	≦30	Pass
165	5825	26.88	≦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	26.81	--	--	--	--	--	--	1 Watt=30dBm
157	5785	26.92	25.79	25.55	24.35	24.25	23.99	22.87	1 Watt=30dBm
165	5825	26.88	--	--	--	--	--	--	1 Watt=30dBm

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Peak Power Output		
Test Mode	Mode 1:Transmit (CDD mode)		
Date of Test	2013/08/29	Test Site	SR7

IEEE 802.11n 20MHz (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	23.90	≦30	Pass
157	5785	23.95	≦30	Pass
165	5825	23.77	≦30	Pass

The worst emission of data rate is 6.5 Mbps.

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		6.5	13	19.5	26	39	52	58..5	65	
149	5745	23.90	--	--	--	--	--	--	--	1 Watt=30dBm
157	5785	23.95	23.84	23.64	23.54	23.30	23.06	22.91	22.67	1 Watt=30dBm
165	5825	23.77	--	--	--	--	--	--	--	1 Watt=30dBm

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Peak Power Output		
Test Mode	Mode 1:Transmit (CDD mode)		
Date of Test	2013/08/29	Test Site	SR7

IEEE 802.11n 20MHz (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	23.91	≦30	Pass
157	5785	23.83	≦30	Pass
165	5825	23.87	≦30	Pass

The worst emission of data rate is 6.5 Mbps.

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		6.5	13	19.5	26	39	52	58..5	65	
149	5745	23.91	--	--	--	--	--	--	--	1 Watt=30dBm
157	5785	23.83	23.63	23.39	23.29	23.19	23.06	22.94	22.70	1 Watt=30dBm
165	5825	23.87	--	--	--	--	--	--	--	1 Watt=30dBm

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Peak Power Output		
Test Mode	Mode 1:Transmit (CDD mode)		
Date of Test	2013/08/29	Test Site	SR7

IEEE 802.11n 20MHz (ANT 0+1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	26.92	≦30	Pass
157	5785	26.90	≦30	Pass
165	5825	26.83	≦30	Pass

The worst emission of data rate is 6.5 Mbps.

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		6.5	13	19.5	26	39	52	58..5	65	
149	5745	26.92	--	--	--	--	--	--	--	1 Watt=30dBm
157	5785	26.90	26.63	25.39	25.29	25.19	25.06	24.94	24.70	1 Watt=30dBm
165	5825	26.83	--	--	--	--	--	--	--	1 Watt=30dBm

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Peak Power Output		
Test Mode	Mode 1:Transmit (CDD mode)		
Date of Test	2013/08/29	Test Site	SR7

IEEE802.11n 40MHz(ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	23.98	≦30	Pass
159	5795	23.87	≦30	Pass

The worst emission of data rate is 13.5Mbps

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13.5	27	40.5	54	81	108	121.5	135	
151	5755	23.98	--	--	--	--	--	--	--	1 Watt=30dBm
159	5795	23.87	23.77	23.67	23.57	23.47	23.23	22.99	22.75	1 Watt=30dBm

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Peak Power Output		
Test Mode	Mode 1:Transmit (CDD mode)		
Date of Test	2013/08/29	Test Site	SR7

IEEE802.11n 40MHz(ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	23.98	≦30	Pass
159	5795	23.98	≦30	Pass

The worst emission of data rate is 13.5Mbps

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13.5	27	40.5	54	81	108	121.5	135	
151	5755	23.98	--	--	--	--	--	--	--	1 Watt=30dBm
159	5795	23.98	23.88	23.78	23.58	23.38	23.26	23.14	22.90	1 Watt=30dBm

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Peak Power Output		
Test Mode	Mode 1:Transmit (CDD mode)		
Date of Test	2013/08/29	Test Site	SR7

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

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	26.99	≦30	Pass
159	5795	26.94	≦30	Pass

The worst emission of data rate is 13.5Mbps

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13.5	27	40.5	54	81	108	121.5	135	
151	5755	26.99	--	--	--	--	--	--	--	1 Watt=30dBm
159	5795	26.94	26.88	26.78	26.58	26.38	26.26	26.14	25.90	1 Watt=30dBm

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Peak Power Output		
Test Mode	Mode 1:Transmit (CDD mode)		
Date of Test	2013/08/29	Test Site	SR7

IEEE 802.11ac 80MHz (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	23.53	≦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	23.53	23.33	23.13	22.93	22.73	22.53	22.41	22.29	22.05	21.93

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Peak Power Output		
Test Mode	Mode 1:Transmit (CDD mode)		
Date of Test	2013/08/29	Test Site	SR7

IEEE 802.11ac 80MHz (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	23.70	≦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	23.70	23.60	23.50	23.40	23.30	23.10	22.98	22.86	22.62	22.50

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Peak Power Output		
Test Mode	Mode 1:Transmit (CDD mode)		
Date of Test	2013/08/29	Test Site	SR7

IEEE 802.11ac 80MHz (ANT 0+1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	26.63	≦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	26.63	26.61	26.55	26.49	26.32	26.11	25.98	25.86	24.62	24.52

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit (Beamforming mode)		
Date of Test	2013/08/29	Test Site	SR7

IEEE 802.11a				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	26.33	≦29.21	Pass
157	5785	26.45	≦29.21	Pass
165	5825	26.41	≦29.21	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	26.33	--	--	--	--	--	--	29.21dBm
157	5785	26.45	25.69	25.45	24.33	24.24	23.59	22.84	29.21dBm
165	5825	26.41	--	--	--	--	--	--	29.21dBm

Note:

Directional Antenna Gain=10log(1)+Beamforming Gain + Max Gain = 3dB + 3.79dBi = 6.79dBi

Limit = 30dBm － (6.79dBi － 6dB) = 29.21dBm

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit (Beamforming mode)		
Date of Test	2013/08/29	Test Site	SR7

IEEE 802.11n 20MHz (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	23.87	≦29.21	Pass
157	5785	23.85	≦29.21	Pass
165	5825	23.67	≦29.21	Pass

The worst emission of data rate is 13 Mbps.

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13	26	39	52	78	104	117	130	
149	5745	23.87	--	--	--	--	--	--	--	29.21dBm
157	5785	23.85	23.73	23.69	23.66	23.59	23.56	22.94	22.71	29.21dBm
165	5825	23.67	--	--	--	--	--	--	--	29.21dBm

Note:

Directional Antenna Gain=10log(1)+Beamforming Gain + Max Gain = 3dB + 3.79dBi = 6.79dBi

Limit = 30dBm － (6.79dBi － 6dB) = 29.21dBm

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit (Beamforming mode)		
Date of Test	2013/08/29	Test Site	SR7

IEEE 802.11n 20MHz (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	23.77	≦29.21	Pass
157	5785	23.74	≦29.21	Pass
165	5825	23.75	≦29.21	Pass

The worst emission of data rate is 13 Mbps.

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13	26	39	52	78	104	117	130	
149	5745	23.77	--	--	--	--	--	--	--	29.21dBm
157	5785	23.74	23.73	23.69	23.59	23.49	23.46	22.34	22.20	29.21dBm
165	5825	23.75	--	--	--	--	--	--	--	29.21dBm

Note:

Directional Antenna Gain=10log(1)+Beamforming Gain + Max Gain = 3dB + 3.79dBi = 6.79dBi

Limit = 30dBm － (6.79dBi － 6dB) = 29.21dBm

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit (Beamforming mode)		
Date of Test	2013/08/29	Test Site	SR7

IEEE 802.11n 20MHz (ANT 0+1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	26.83	≦29.21	Pass
157	5785	26.81	≦29.21	Pass
165	5825	26.72	≦29.21	Pass

The worst emission of data rate is 13 Mbps.

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13	26	39	52	78	104	117	130	
149	5745	26.83	--	--	--	--	--	--	--	29.21dBm
157	5785	26.81	25.63	25.39	25.29	25.22	25.16	24.92	25.10	29.21dBm
165	5825	26.72	--	--	--	--	--	--	--	29.21dBm

Note:

Directional Antenna Gain=10log(1)+Beamforming Gain + Max Gain = 3dB + 3.79dBi = 6.79dBi

Limit = 30dBm － (6.79dBi － 6dB) = 29.21dBm

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit (Beamforming mode)		
Date of Test	2013/08/29	Test Site	SR7

IEEE802.11n 40MHz(ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	23.67	≦29.21	Pass
159	5795	23.90	≦29.21	Pass

The worst emission of data rate is 27Mbps

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		27	54	81	108	162	216	243	270	
151	5755	23.67	--	--	--	--	--	--	--	29.21dBm
159	5795	23.90	23.88	23.79	23.59	23.37	23.25	23.19	22.98	29.21dBm

Note:

Directional Antenna Gain=10log(1)+Beamforming Gain + Max Gain = 3dB + 3.79dBi = 6.79dBi
Limit = 30dBm － (6.79dBi － 6dB) = 29.21dBm

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit (Beamforming mode)		
Date of Test	2013/08/29	Test Site	SR7

IEEE802.11n 40MHz(ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	23.76	≦29.21	Pass
159	5795	23.94	≦29.21	Pass

The worst emission of data rate is 27Mbps

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		27	54	81	108	162	216	243	270	
151	5755	23.76	--	--	--	--	--	--	--	29.21dBm
159	5795	23.94	23.91	23.88	23.68	23.59	23.26	23.14	22.90	29.21dBm

Note:

Directional Antenna Gain=10log(1)+Beamforming Gain + Max Gain = 3dB + 3.79dBi = 6.79dBi

Limit = 30dBm － (6.79dBi － 6dB) = 29.21dBm

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit (Beamforming mode)		
Date of Test	2013/08/29	Test Site	SR7

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

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	26.73	≦29.21	Pass
159	5795	26.93	≦29.21	Pass

The worst emission of data rate is 27Mbps

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		27	54	81	108	162	216	243	270	
151	5755	26.73	--	--	--	--	--	--	--	29.21dBm
159	5795	26.93	26.91	26.88	26.66	26.58	26.28	26.14	25.90	29.21dBm

Note:

Directional Antenna Gain=10log(1)+Beamforming Gain + Max Gain = 3dB + 3.79dBi = 6.79dBi

Limit = 30dBm － (6.79dBi － 6dB) = 29.21dBm

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit (Beamforming mode)		
Date of Test	2013/08/29	Test Site	SR7

IEEE 802.11ac 80MHz (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	23.07	≦29.21	Pass

The worst emission of data rate is 58.6 Mbps.

Peak Power Output (dBm)											
MCS Index		0	1	2	3	4	5	6	7	8	9
Channel No	Frequency (MHz)	Data Rate									
		58.6	117	175.6	234	351	468	526.6	585	702	780
155	5775	23.07	23.04	23.01	22.98	22.95	22.94	22.88	22.86	22.62	22.50

Note:

Directional Antenna Gain=10log(1)+Beamforming Gain + Max Gain = 3dB + 3.79dBi = 6.79dBi

Limit = 30dBm － (6.79dBi － 6dB) = 29.21dBm

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit (Beamforming mode)		
Date of Test	2013/08/29	Test Site	SR7

IEEE 802.11ac 80MHz (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	23.50	≦29.21	Pass

The worst emission of data rate is 58.6 Mbps.

Peak Power Output (dBm)											
MCS Index		0	1	2	3	4	5	6	7	8	9
Channel No	Frequency (MHz)	Data Rate									
		58.6	117	175.6	234	351	468	526.6	585	702	780
155	5775	23.50	23.45	23.42	23.40	23.36	23.34	22.98	22.56	22.22	22.11

Note:

Directional Antenna Gain=10log(1)+Beamforming Gain + Max Gain = 3dB + 3.79dBi = 6.79dBi

Limit = 30dBm － (6.79dBi － 6dB) = 29.21dBm

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit (Beamforming mode)		
Date of Test	2013/08/29	Test Site	SR7

IEEE 802.11ac 80MHz (ANT 0+1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	26.30	≦29.21	Pass

The worst emission of data rate is 58.6 Mbps.

Peak Power Output (dBm)											
MCS Index		0	1	2	3	4	5	6	7	8	9
Channel No	Frequency (MHz)	Data Rate									
		58.6	117	175.6	234	351	468	526.6	585	702	780
155	5775	26.30	26.28	26.27	26.22	26.21	26.10	25.98	25.86	25.62	25.50

Note:

Directional Antenna Gain=10log(1)+Beamforming Gain + Max Gain = 3dB + 3.79dBi = 6.79dBi

Limit = 30dBm － (6.79dBi － 6dB) = 29.21dBm

4. Radiated Emission

4.1. Test Equipment

The following test equipments are used during the test:

Radiated Emission / CB1 (30MHz-1GHz Spurious)

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Bilog Antenna	SCHAFFNER	CBL6112B	2895	2015/08/14
Double Ridged Guide Horn Antenna	Schwarzback	BBHA 9120	D743	2015/02/12
Pre-Amplifier	MITEQ	AMF-4D-005180-24-10P	888003	2015/06/02
Pre-Amplifier	QuieTek	AP-025C	CHM-0706049	2015/02/06
Spectrum Analyzer	Agilent	E4440A	MY46187335	2015/01/12
k Type Cable	Huber Suhner	Sucoflex 102	25623/2	2015/02/10

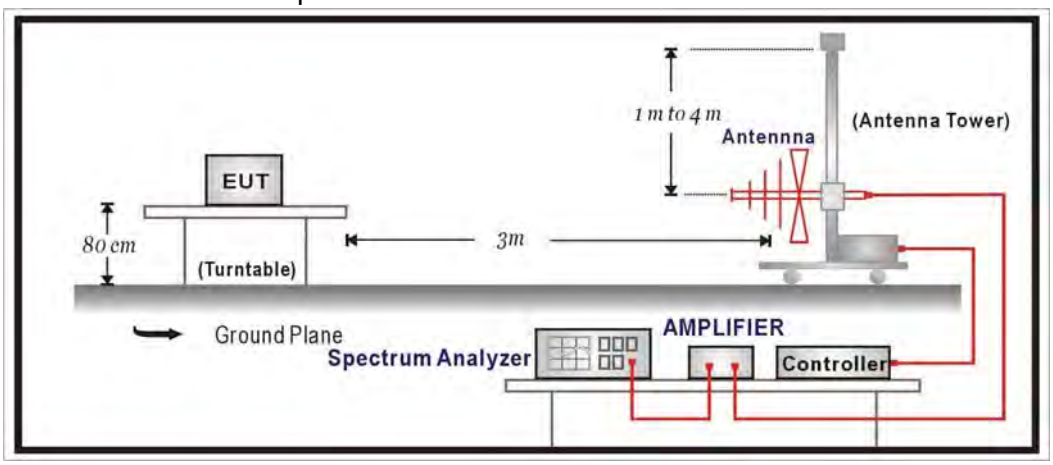
Radiated Emission / CB1 (Above 1GHz Spurious)

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Bilog Antenna	SCHAFFNER	CBL6112B	2895(CB1)	2014/08/14
Double Ridged Guide Horn Antenna	Schwarzback	BBHA 9120	D743	2014/02/17
Pre-Amplifier	MITEQ	AMF-4D	888003	2014/06/09
Pre-Amplifier	QuieTek	AP-025C	CHM-0706049	2014/02/19
Spectrum Analyzer	Agilent	E4440A	MY46187335	2014/01/27
k Type Cable	Huber Suhner	Sucoflex 102	25623/2	2014/02/21

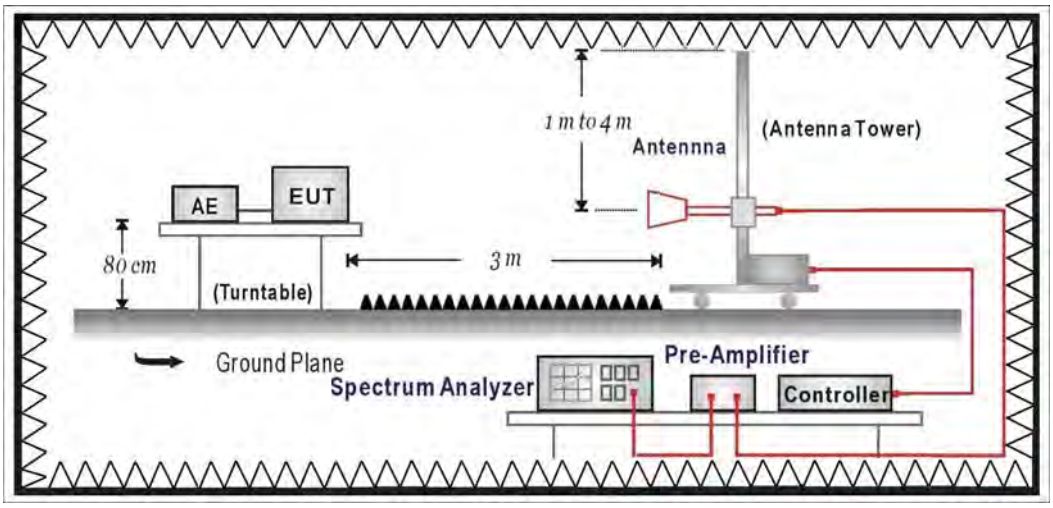
Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

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	uV/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 and tested according to DTS test procedure of KDB558074 for compliance to FCC 47CFR 15.247 requirements.
The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The 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: 2013

4.6. Uncertainty

The measurement uncertainty

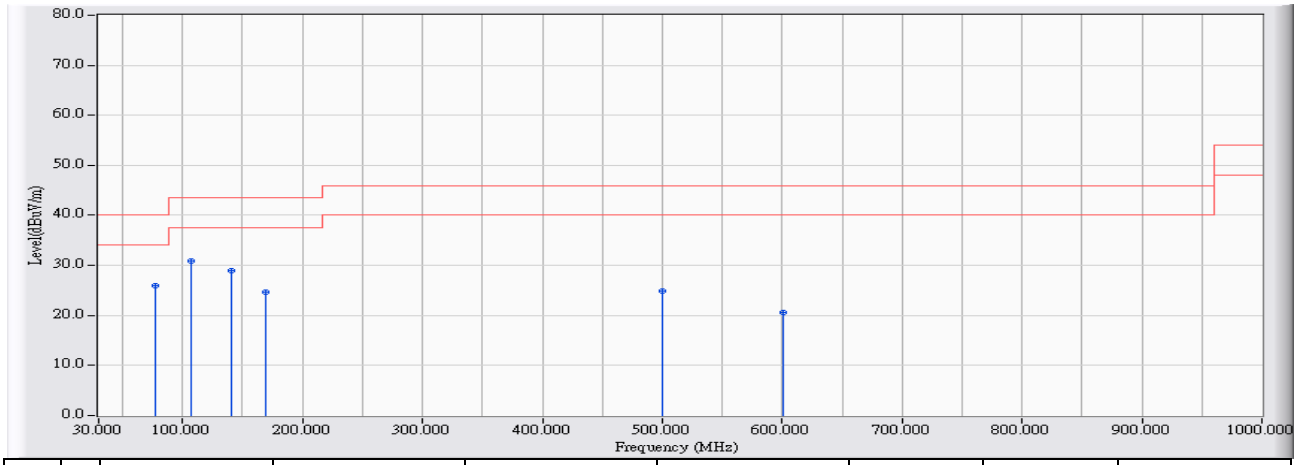
30MHz～1GHz as ±3.43dB

1GHz～26.5Ghz as ±3.65dB

4.7. Test Result

30MHz-1GHz Spurious

Site : CB1	**Time : 2014/08/10 - 10:30**
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-AC1200 Gigabit Router	**Note : Mode 1:Transmit (CDD mode)_802.11b_2437MHz**

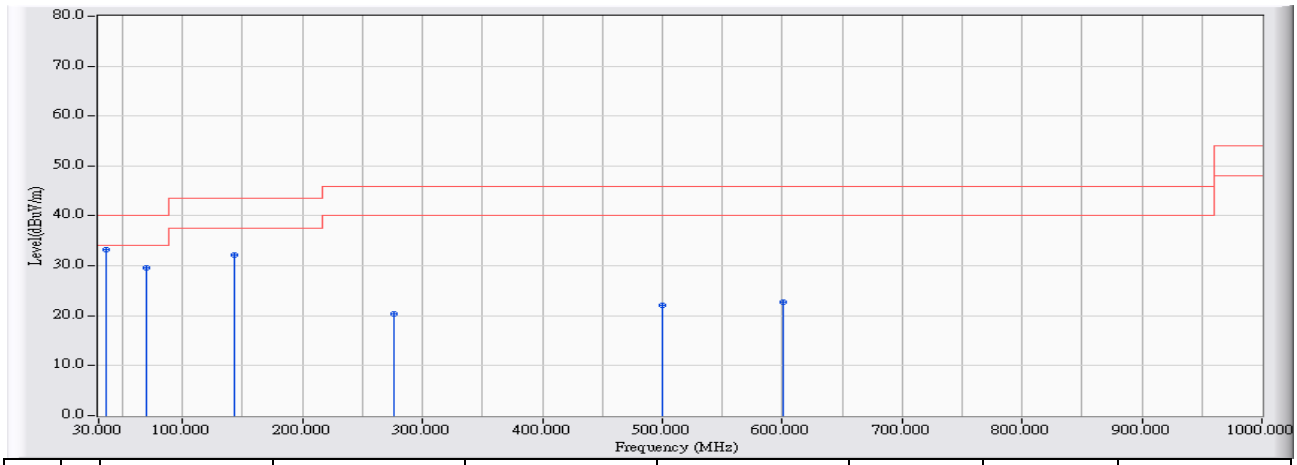


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		77.045	-27.016	53.025	26.009	-13.991	40.000	QUASIPEAK
2	*	106.630	-22.889	53.866	30.976	-12.524	43.500	QUASIPEAK
3		141.065	-22.983	52.004	29.021	-14.479	43.500	QUASIPEAK
4		168.710	-24.204	48.882	24.678	-18.822	43.500	QUASIPEAK
5		500.450	-15.179	40.070	24.891	-21.109	46.000	QUASIPEAK
6		600.360	-14.464	35.014	20.549	-25.451	46.000	QUASIPEAK

Note:

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

Site : CB1	**Time : 2014/08/10 - 10:32**
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-AC1200 Gigabit Router	**Note : Mode 1:Transmit (CDD mode)_802.11b_2437MHz**

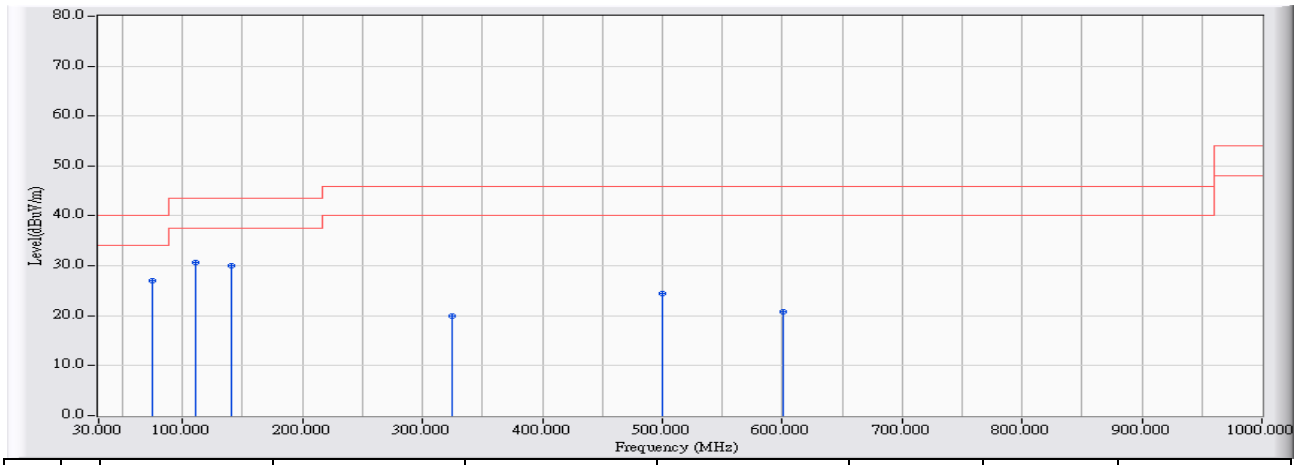


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	36.305	-20.671	53.925	33.254	-6.746	40.000	QUASIPEAK
2		69.285	-27.527	57.174	29.646	-10.354	40.000	QUASIPEAK
3		143.490	-23.104	55.239	32.135	-11.365	43.500	QUASIPEAK
4		276.380	-20.326	40.801	20.475	-25.525	46.000	QUASIPEAK
5		500.450	-15.179	37.218	22.039	-23.961	46.000	QUASIPEAK
6		600.360	-14.464	37.149	22.684	-23.316	46.000	QUASIPEAK

Note:

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

Site : CB1	**Time : 2014/08/10 - 10:36**
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-AC1200 Gigabit Router	**Note : Mode 1:Transmit (CDD mode)_802.11g_2437MHz**

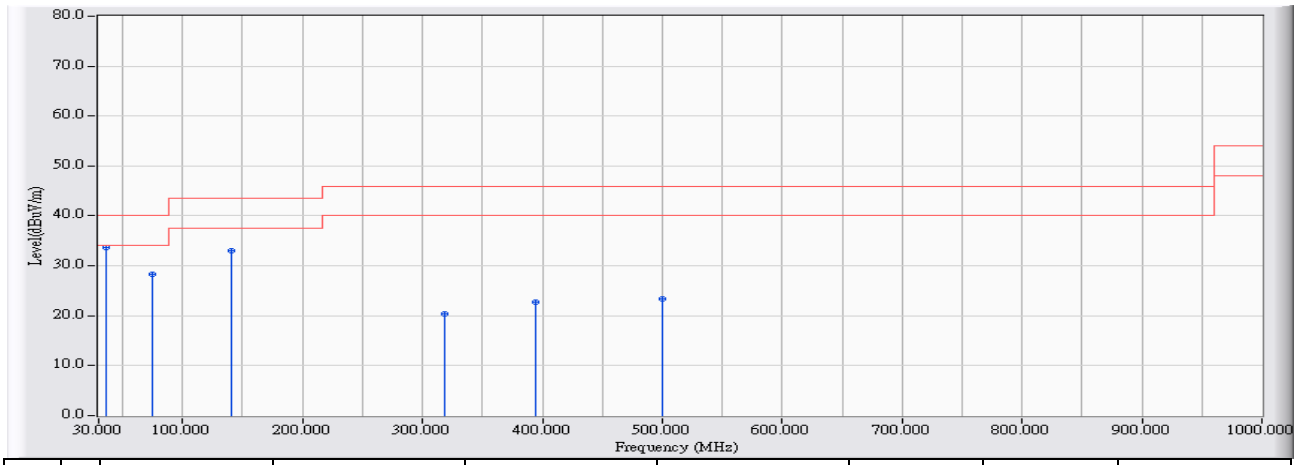


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		74.620	-27.199	54.205	27.006	-12.994	40.000	QUASIPEAK
2	*	110.995	-22.678	53.445	30.767	-12.733	43.500	QUASIPEAK
3		141.065	-22.983	53.078	30.095	-13.405	43.500	QUASIPEAK
4		324.395	-19.305	39.207	19.902	-26.098	46.000	QUASIPEAK
5		500.450	-15.179	39.706	24.527	-21.473	46.000	QUASIPEAK
6		600.360	-14.464	35.167	20.702	-25.298	46.000	QUASIPEAK

Note:

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

Site : CB1	**Time : 2014/08/10 - 10:38**
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-AC1200 Gigabit Router	**Note : Mode 1:Transmit (CDD mode)_802.11g_2437MHz**

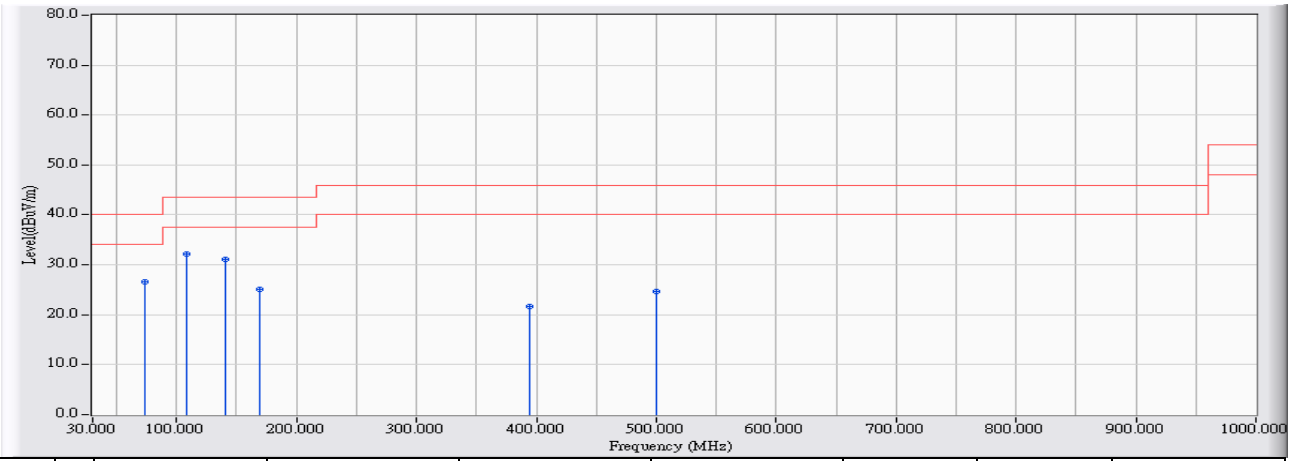


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	36.305	-20.671	54.405	33.734	-6.266	40.000	QUASIPEAK
2		74.620	-27.199	55.422	28.223	-11.777	40.000	QUASIPEAK
3		141.065	-22.983	55.946	32.963	-10.537	43.500	QUASIPEAK
4		319.060	-19.432	39.785	20.353	-25.647	46.000	QUASIPEAK
5		393.750	-17.502	40.201	22.700	-23.300	46.000	QUASIPEAK
6		500.450	-15.179	38.477	23.298	-22.702	46.000	QUASIPEAK

Note:

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

Site : CB1	**Time : 2014/08/10 - 10:40**
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-AC1200 Gigabit Router	**Note : Mode 1:Transmit (CDD mode)_802.11n 20M_2437MHz**

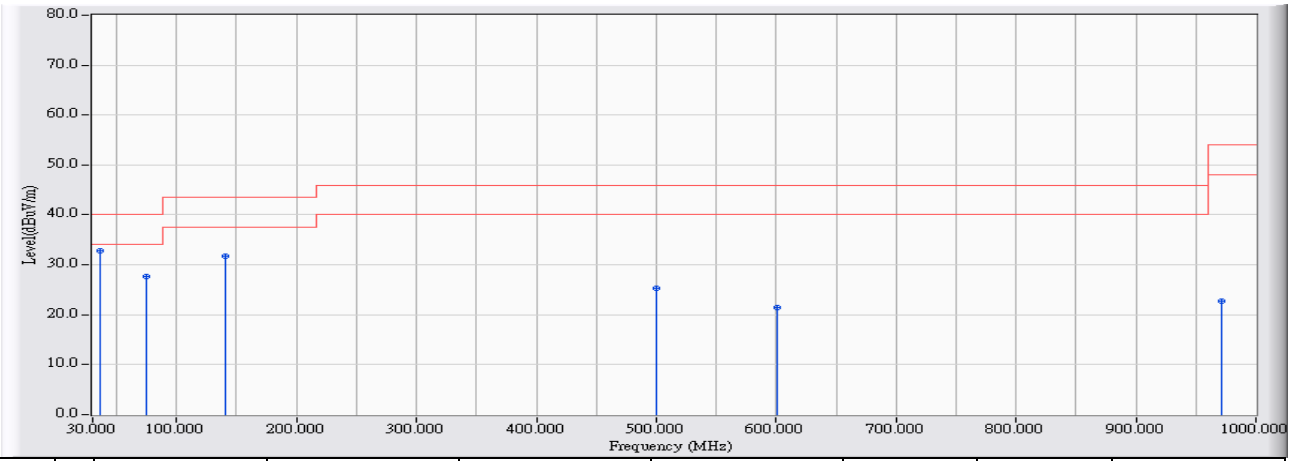


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		74.135	-27.235	53.893	26.658	-13.342	40.000	QUASIPEAK
2	*	108.570	-22.795	54.971	32.175	-11.325	43.500	QUASIPEAK
3		141.065	-22.983	53.989	31.006	-12.494	43.500	QUASIPEAK
4		168.710	-24.204	49.312	25.108	-18.392	43.500	QUASIPEAK
5		393.750	-17.502	39.231	21.730	-24.270	46.000	QUASIPEAK
6		500.450	-15.179	39.773	24.594	-21.406	46.000	QUASIPEAK

Note:

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

Site : CB1	**Time : 2014/08/10 - 10:41**
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-AC1200 Gigabit Router	**Note : Mode 1:Transmit (CDD mode)_802.11n 20M_2437MHz**

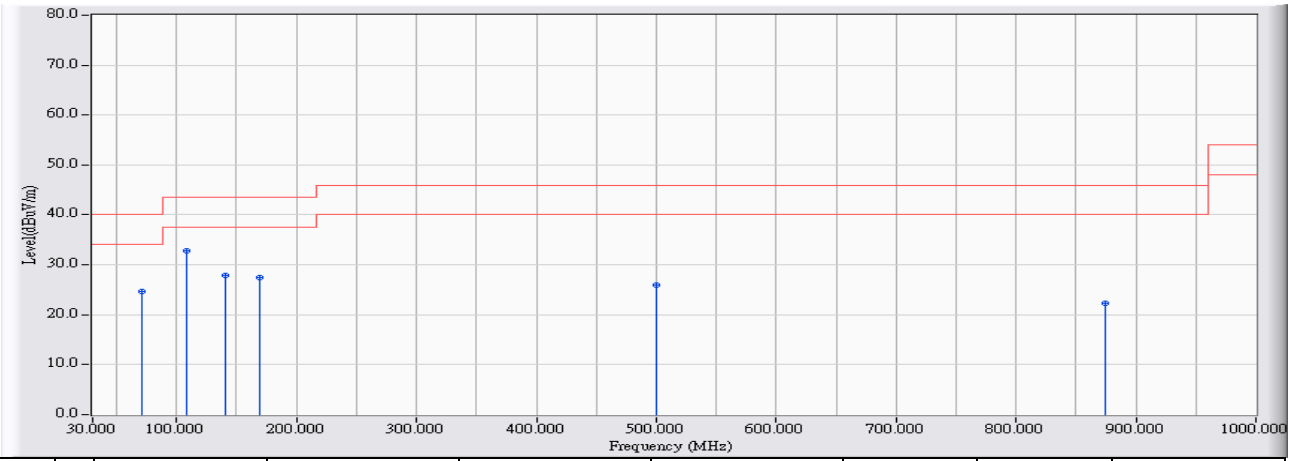


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	36.305	-20.671	53.543	32.872	-7.128	40.000	QUASIPEAK
2		74.620	-27.199	54.895	27.696	-12.304	40.000	QUASIPEAK
3		141.065	-22.983	54.755	31.772	-11.728	43.500	QUASIPEAK
4		500.450	-15.179	40.439	25.260	-20.740	46.000	QUASIPEAK
5		600.360	-14.464	35.932	21.467	-24.533	46.000	QUASIPEAK
6		970.900	-9.985	32.710	22.724	-31.276	54.000	QUASIPEAK

Note:

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

Site : CB1	**Time : 2014/08/10 - 10:58**
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-AC1200 Gigabit Router	**Note : Mode 1:Transmit (CDD mode)_802.11n 40M_2437MHz**

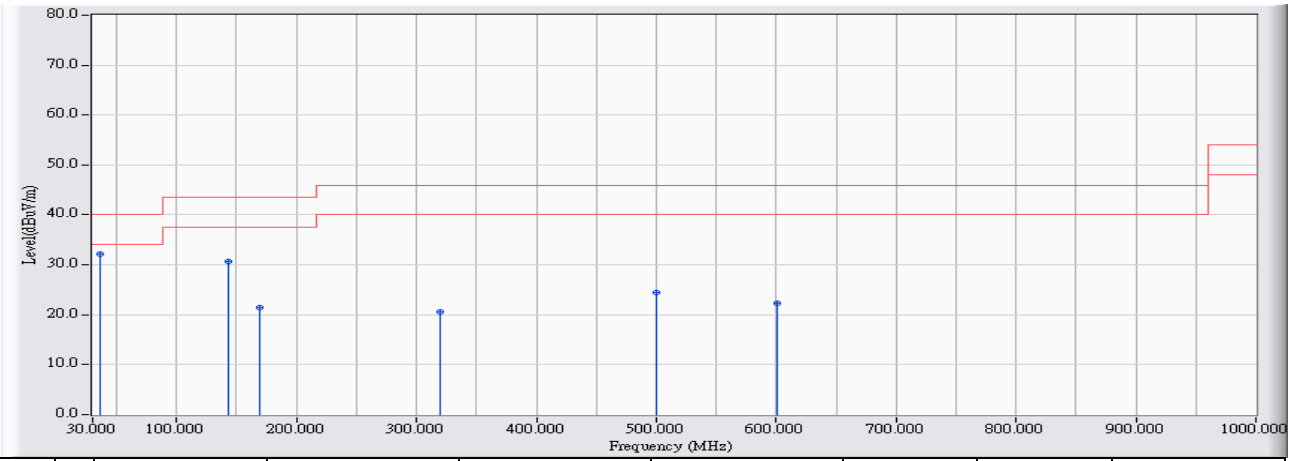


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		70.740	-27.491	52.212	24.721	-15.279	40.000	QUASIPEAK
2	*	108.570	-22.795	55.624	32.828	-10.672	43.500	QUASIPEAK
3		141.065	-22.983	50.968	27.985	-15.515	43.500	QUASIPEAK
4		168.710	-24.204	51.592	27.388	-16.112	43.500	QUASIPEAK
5		500.450	-15.179	41.035	25.856	-20.144	46.000	QUASIPEAK
6		873.900	-11.157	33.495	22.338	-23.662	46.000	QUASIPEAK

Note:

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

Site : CB1	**Time : 2014/08/10 - 11:02**
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-AC1200 Gigabit Router	**Note : Mode 1:Transmit (CDD mode)_802.11n 40M_2437MHz**

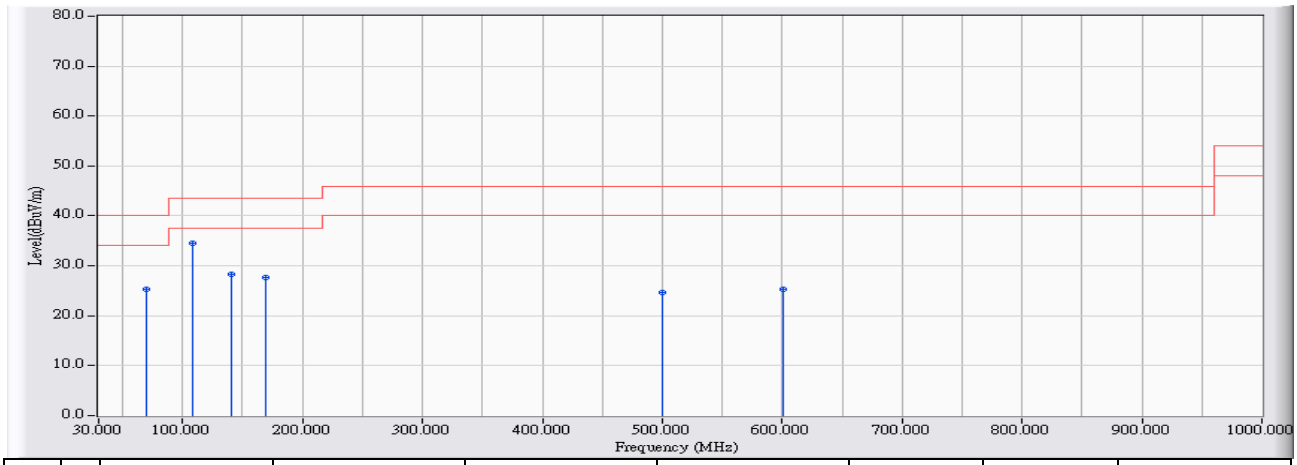


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	36.305	-20.671	52.903	32.232	-7.768	40.000	QUASIPEAK
2		143.490	-23.104	53.680	30.576	-12.924	43.500	QUASIPEAK
3		168.710	-24.204	45.703	21.499	-22.001	43.500	QUASIPEAK
4		320.030	-19.408	39.913	20.504	-25.496	46.000	QUASIPEAK
5		500.450	-15.179	39.706	24.527	-21.473	46.000	QUASIPEAK
6		600.360	-14.464	36.841	22.376	-23.624	46.000	QUASIPEAK

Note:

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

Site : CB1	**Time : 2014/08/10 - 11:06**
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-AC1200 Gigabit Router	**Note : Mode 1:Transmit (CDD mode)_802.11a_5785MHz**

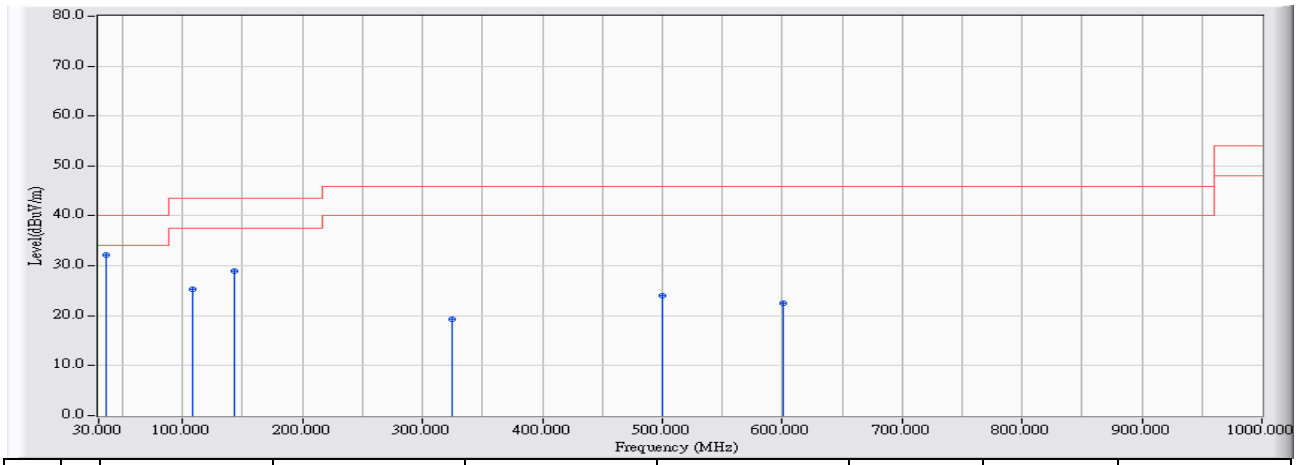


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		69.285	-27.527	52.765	25.237	-14.763	40.000	QUASIPEAK
2	*	108.570	-22.795	57.373	34.577	-8.923	43.500	QUASIPEAK
3		141.065	-22.983	51.275	28.292	-15.208	43.500	QUASIPEAK
4		168.710	-24.204	51.918	27.714	-15.786	43.500	QUASIPEAK
5		500.450	-15.179	39.949	24.770	-21.230	46.000	QUASIPEAK
6		600.360	-14.464	39.755	25.290	-20.710	46.000	QUASIPEAK

Note:

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

Site : CB1	**Time : 2014/08/10 - 11:08**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router	**Note : Mode 1:Transmit (CDD mode)_802.11a_5785MHz**

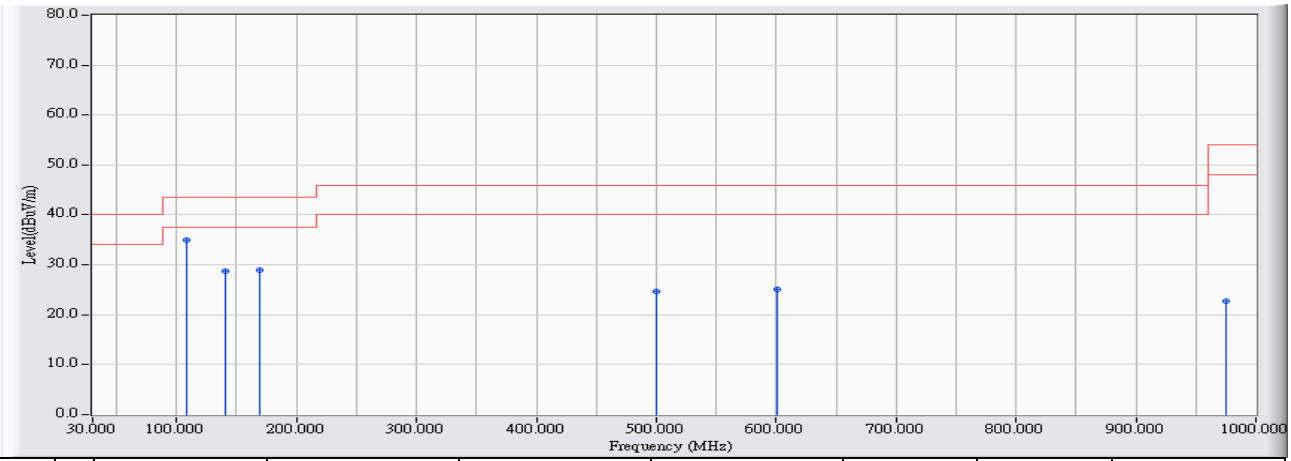


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	36.305	-20.671	52.785	32.114	-7.886	40.000	QUASIPEAK
2		108.570	-22.795	48.054	25.258	-18.242	43.500	QUASIPEAK
3		143.490	-23.104	52.053	28.949	-14.551	43.500	QUASIPEAK
4		324.395	-19.305	38.676	19.371	-26.629	46.000	QUASIPEAK
5		500.450	-15.179	39.253	24.074	-21.926	46.000	QUASIPEAK
6		600.360	-14.464	37.004	22.539	-23.461	46.000	QUASIPEAK

Note:

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

Site : CB1	**Time : 2014/08/10 - 11:10**
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-AC1200 Gigabit Router	**Note : Mode 1:Transmit (CDD mode)_802.11n 20M_5785MHz**

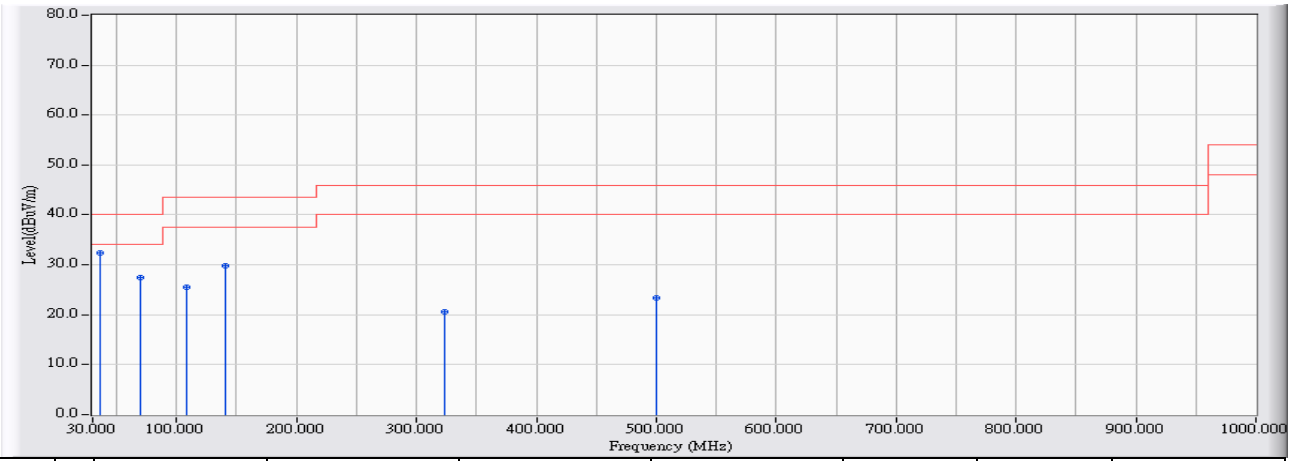


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	108.570	-22.795	57.856	35.060	-8.440	43.500	QUASIPEAK
2		141.065	-22.983	51.672	28.689	-14.811	43.500	QUASIPEAK
3		168.710	-24.204	53.053	28.849	-14.651	43.500	QUASIPEAK
4		500.450	-15.179	39.777	24.598	-21.402	46.000	QUASIPEAK
5		600.360	-14.464	39.650	25.185	-20.815	46.000	QUASIPEAK
6		974.780	-9.949	32.726	22.777	-31.223	54.000	QUASIPEAK

Note:

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

Site : CB1	**Time : 2014/08/10 - 11:13**
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-AC1200 Gigabit Router	**Note : Mode 1:Transmit (CDD mode)_802.11n 20M_5785MHz**

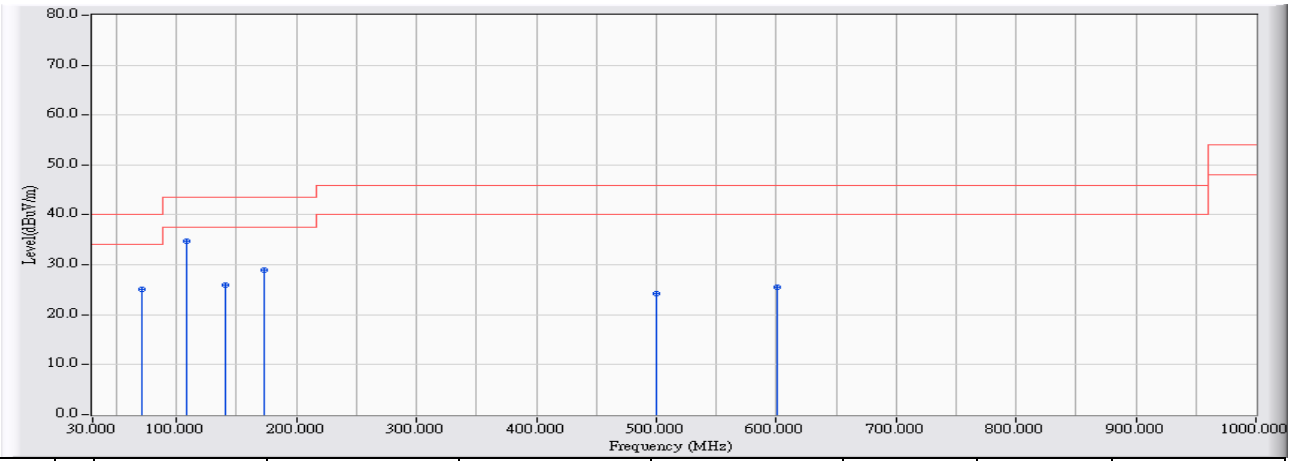


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	36.305	-20.671	53.154	32.483	-7.517	40.000	QUASIPEAK
2		69.285	-27.527	55.077	27.549	-12.451	40.000	QUASIPEAK
3		108.570	-22.795	48.326	25.530	-17.970	43.500	QUASIPEAK
4		141.065	-22.983	52.769	29.786	-13.714	43.500	QUASIPEAK
5		323.910	-19.316	39.833	20.517	-25.483	46.000	QUASIPEAK
6		500.450	-15.179	38.490	23.311	-22.689	46.000	QUASIPEAK

Note:

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

Site : CB1	**Time : 2014/08/10 - 11:15**
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-AC1200 Gigabit Router	**Note : Mode 1:Transmit (CDD mode)_802.11n 40M_5795MHz**

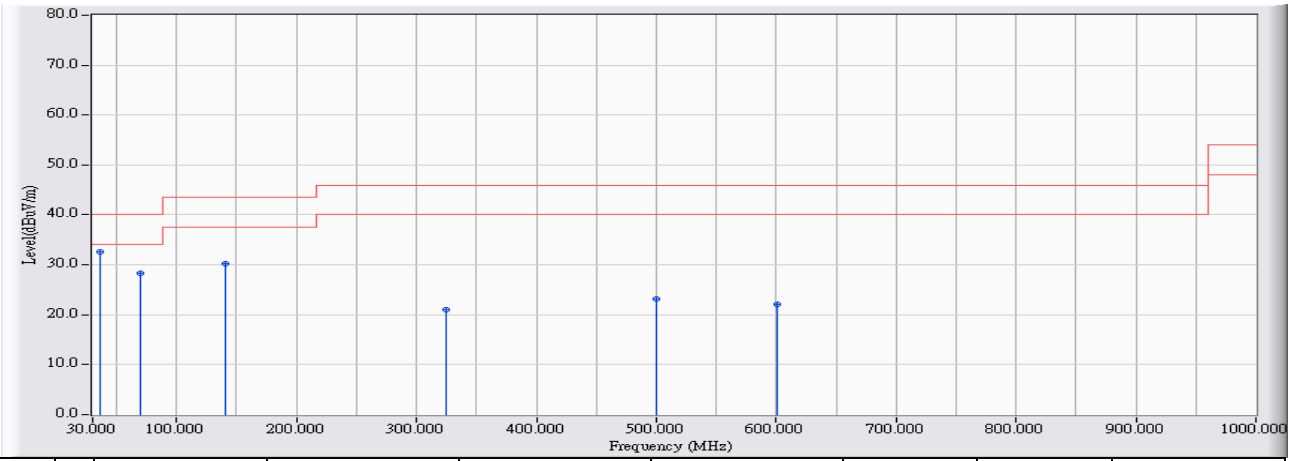


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		71.225	-27.455	52.473	25.019	-14.981	40.000	QUASIPEAK
2	*	108.570	-22.795	57.638	34.842	-8.658	43.500	QUASIPEAK
3		141.065	-22.983	49.019	26.036	-17.464	43.500	QUASIPEAK
4		172.590	-24.352	53.270	28.918	-14.582	43.500	QUASIPEAK
5		500.450	-15.179	39.454	24.275	-21.725	46.000	QUASIPEAK
6		600.360	-14.464	40.041	25.576	-20.424	46.000	QUASIPEAK

Note:

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

Site : CB1	**Time : 2014/08/10 - 11:17**
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-AC1200 Gigabit Router	**Note : Mode 1:Transmit (CDD mode)_802.11n 40M_5795MHz**

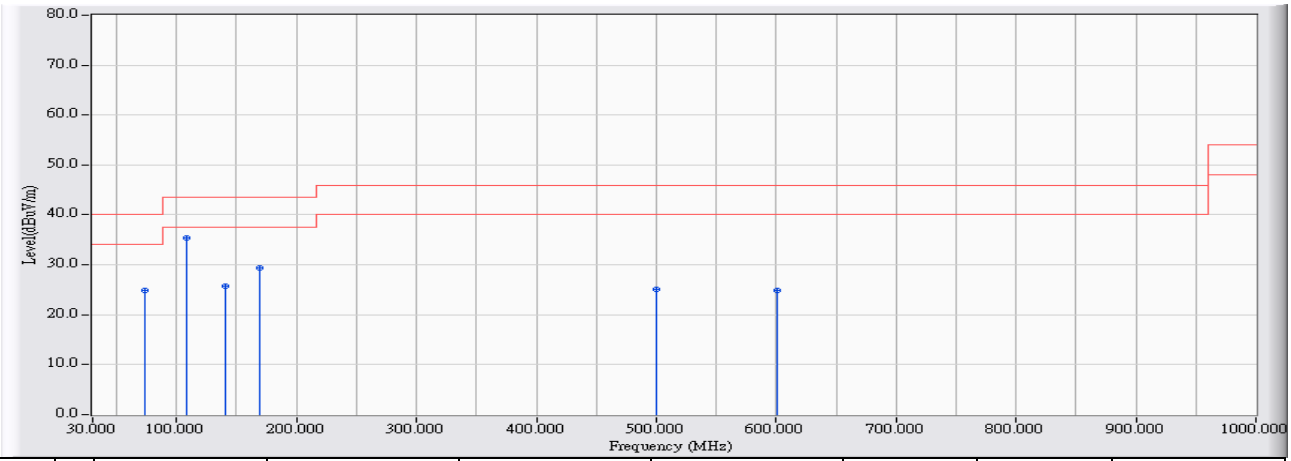


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	36.305	-20.671	53.376	32.705	-7.295	40.000	QUASIPEAK
2		69.285	-27.527	55.740	28.212	-11.788	40.000	QUASIPEAK
3		141.065	-22.983	53.205	30.222	-13.278	43.500	QUASIPEAK
4		324.395	-19.305	40.250	20.945	-25.055	46.000	QUASIPEAK
5		500.450	-15.179	38.421	23.242	-22.758	46.000	QUASIPEAK
6		600.360	-14.464	36.546	22.081	-23.919	46.000	QUASIPEAK

Note:

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

Site : CB1	**Time : 2014/08/10 - 11:19**
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-AC1200 Gigabit Router	**Note : Mode 1:Transmit (CDD mode)_802.11ac 80M_5775MHz**

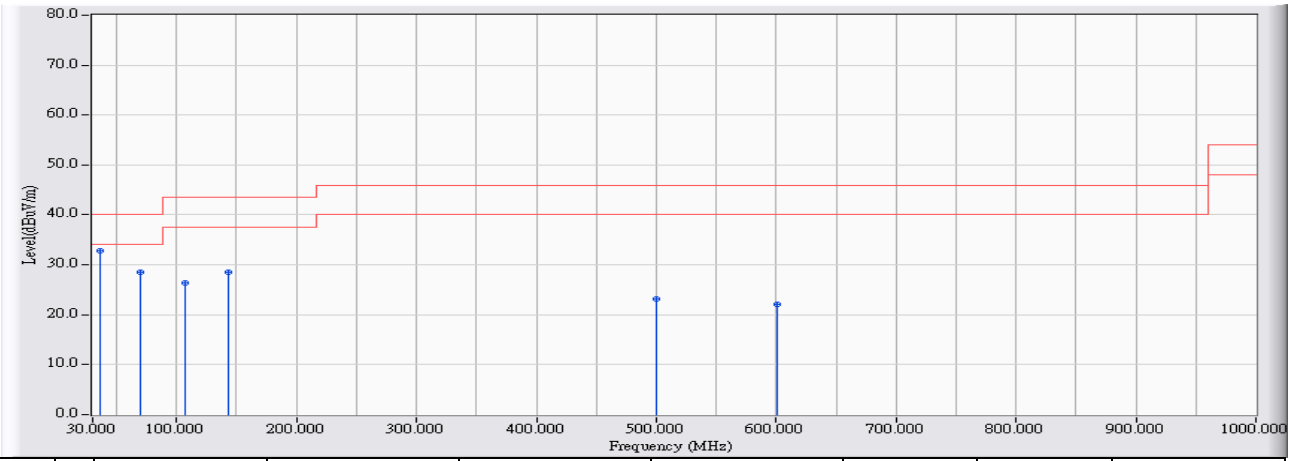


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		74.135	-27.235	52.034	24.799	-15.201	40.000	QUASIPEAK
2	*	108.570	-22.795	58.285	35.489	-8.011	43.500	QUASIPEAK
3		141.065	-22.983	48.787	25.804	-17.696	43.500	QUASIPEAK
4		168.710	-24.204	53.616	29.412	-14.088	43.500	QUASIPEAK
5		500.450	-15.179	40.333	25.154	-20.846	46.000	QUASIPEAK
6		600.360	-14.464	39.280	24.815	-21.185	46.000	QUASIPEAK

Note:

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

Site : CB1	**Time : 2014/08/10 - 11:21**
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-AC1200 Gigabit Router	**Note : Mode 1:Transmit (CDD mode)_802.11ac 80M_5775MHz**



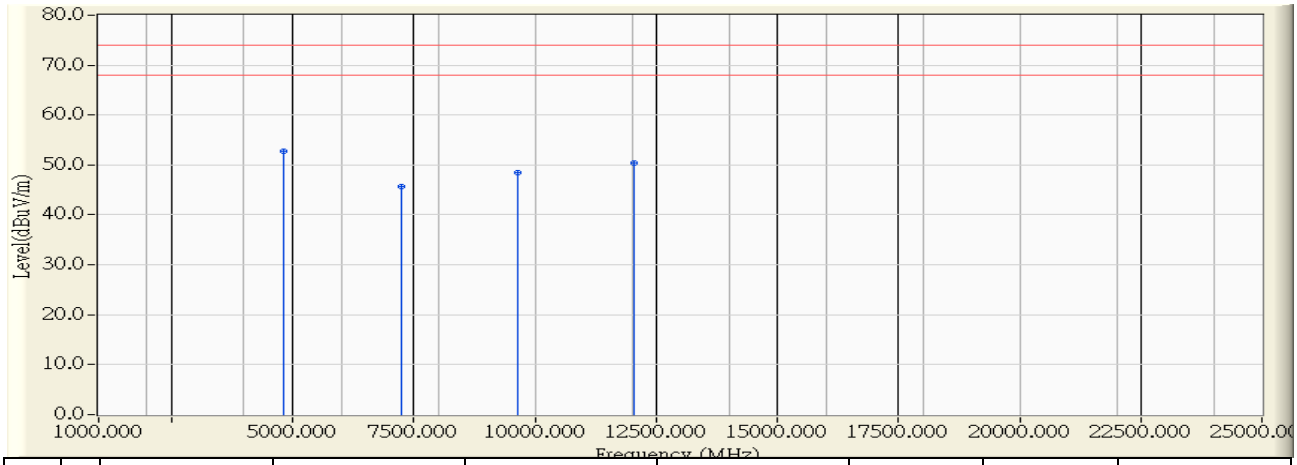
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	36.305	-20.671	53.518	32.847	-7.153	40.000	QUASIPEAK
2		69.285	-27.527	56.076	28.548	-11.452	40.000	QUASIPEAK
3		106.630	-22.889	49.199	26.309	-17.191	43.500	QUASIPEAK
4		143.490	-23.104	51.694	28.590	-14.910	43.500	QUASIPEAK
5		500.450	-15.179	38.413	23.234	-22.766	46.000	QUASIPEAK
6		600.360	-14.464	36.562	22.097	-23.903	46.000	QUASIPEAK

Note:

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

Above 1GHz Spurious

Site : CB1	**Time : 2013/08/29 - 11:38**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11b_2412MHz**

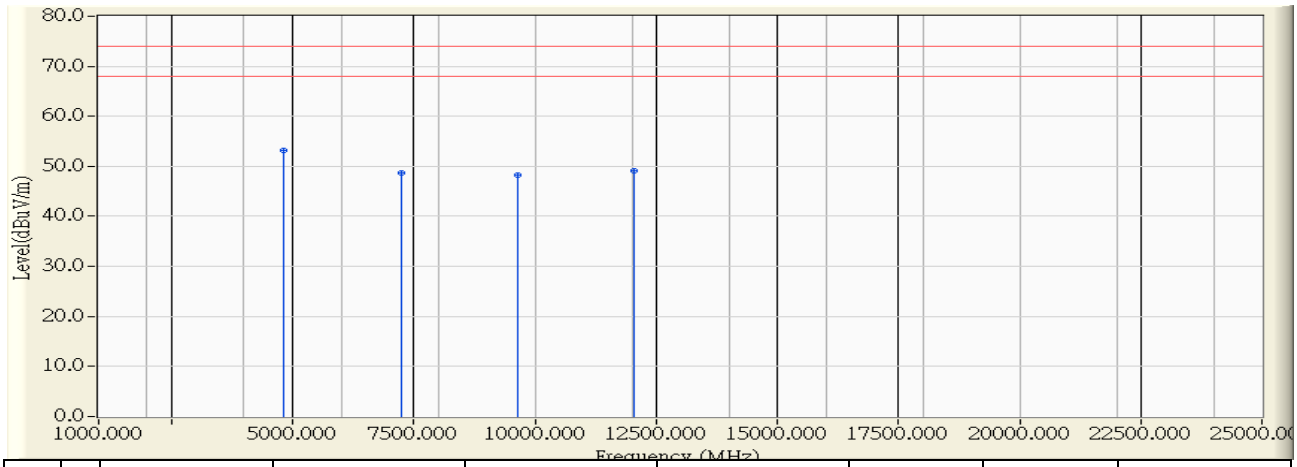


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4824.000	-0.617	53.400	52.783	-21.217	74.000	PEAK
2		7236.000	5.445	40.150	45.595	-28.405	74.000	PEAK
3		9648.000	9.226	39.220	48.446	-25.554	74.000	PEAK
4		12060.000	11.115	39.310	50.425	-23.575	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 : 2013/08/29 - 11:44**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11b_2412MHz**

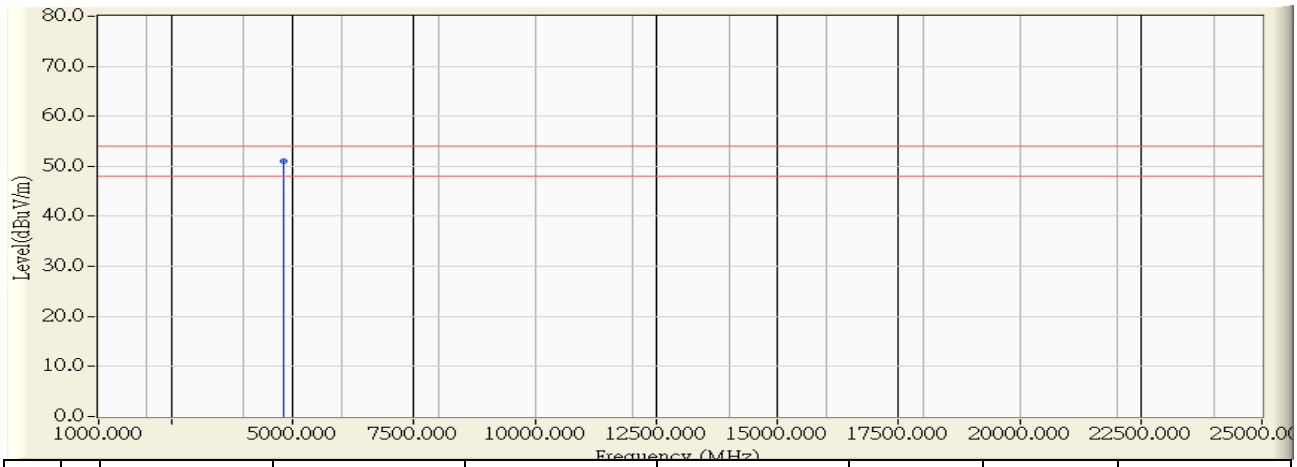


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4824.000	-0.617	53.900	53.283	-20.717	74.000	PEAK
2		7236.000	5.445	43.260	48.705	-25.295	74.000	PEAK
3		9648.000	9.226	38.980	48.206	-25.794	74.000	PEAK
4		12060.000	11.115	37.910	49.025	-24.975	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 : 2013/08/29 - 11:44**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11b_2412MHz**

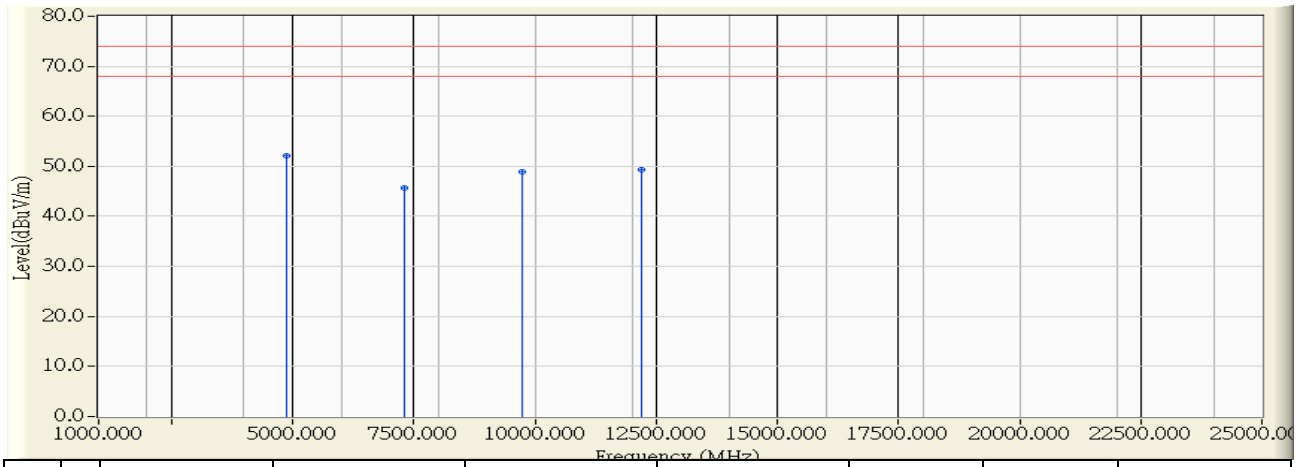


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4824.000	-0.617	51.710	51.093	-2.907	54.000	AVERAGE

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 : 2013/08/29 - 11:54**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11b_2437MHz**

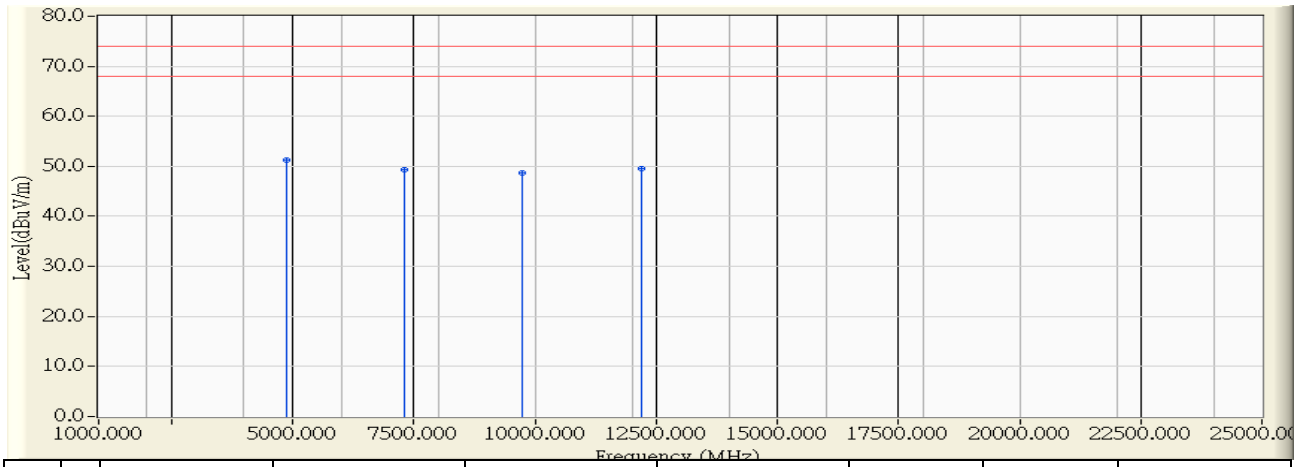


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4874.000	-0.495	52.670	52.175	-21.825	74.000	PEAK
2		7311.000	5.608	40.050	45.657	-28.343	74.000	PEAK
3		9748.000	9.873	39.120	48.993	-25.007	74.000	PEAK
4		12185.000	11.058	38.290	49.348	-24.652	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 : 2013/08/29 - 11:57**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11b_2437MHz**

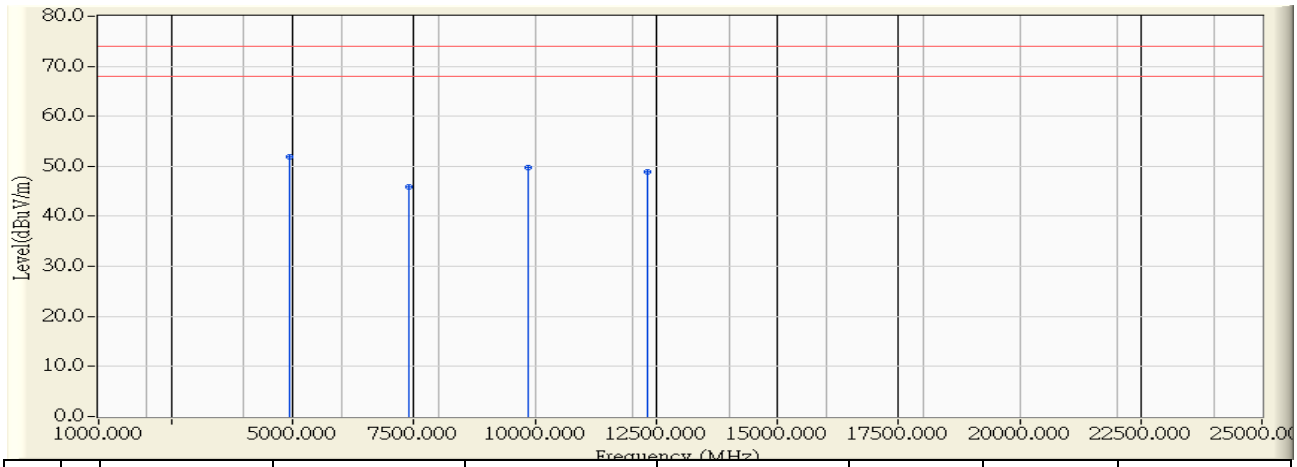


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4874.000	-0.495	51.760	51.265	-22.735	74.000	PEAK
2		7311.000	5.608	43.680	49.287	-24.713	74.000	PEAK
3		9748.000	9.873	38.830	48.703	-25.297	74.000	PEAK
4		12185.000	11.058	38.440	49.498	-24.502	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 : 2013/08/29 - 12:00**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11b_2462MHz**

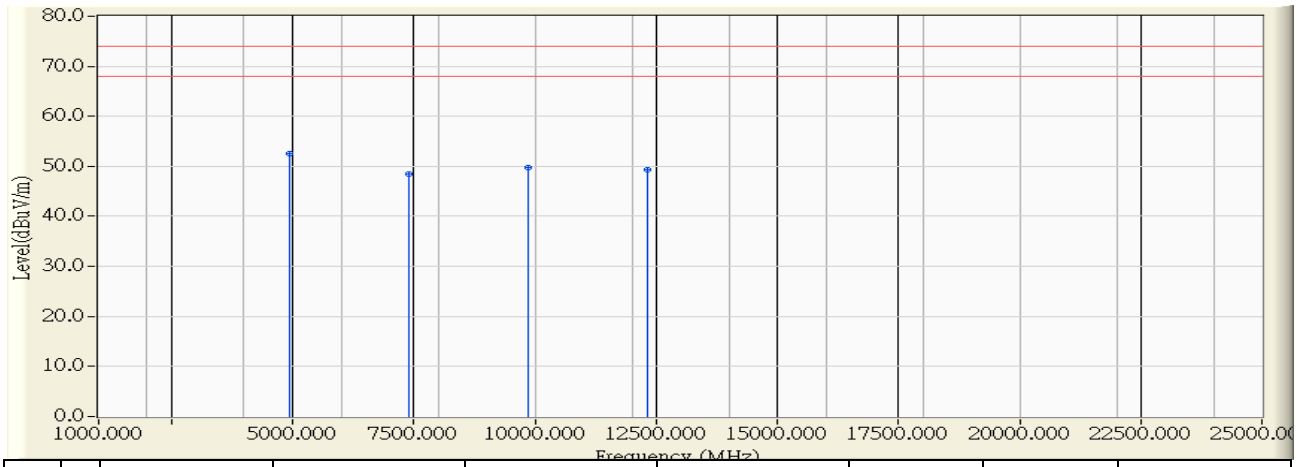


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4924.000	-0.373	52.360	51.987	-22.013	74.000	PEAK
2		7386.000	5.770	40.120	45.890	-28.110	74.000	PEAK
3		9848.000	10.521	39.170	49.691	-24.309	74.000	PEAK
4		12310.000	11.001	37.870	48.871	-25.129	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 : 2013/08/29 - 13:08**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11b_2462MHz**

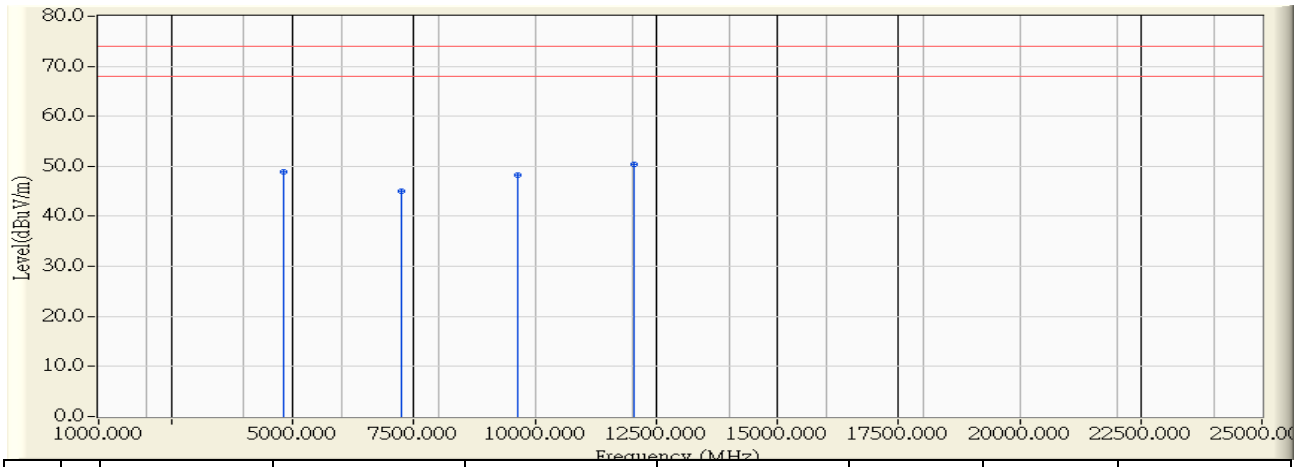


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4924.000	-0.373	52.920	52.547	-21.453	74.000	PEAK
2		7386.000	5.770	42.690	48.460	-25.540	74.000	PEAK
3		9848.000	10.521	39.270	49.791	-24.209	74.000	PEAK
4		12310.000	11.001	38.390	49.391	-24.609	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 : 2013/08/29 - 13:16**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11g_2412MHz**

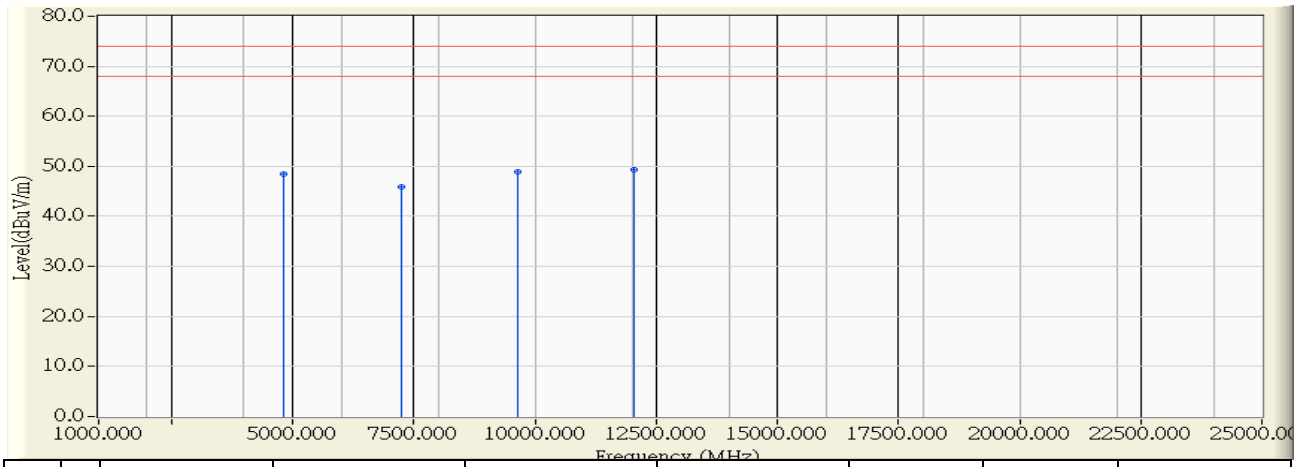


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	-0.617	49.520	48.903	-25.097	74.000	PEAK
2		7236.000	5.445	39.570	45.015	-28.985	74.000	PEAK
3		9648.000	9.226	39.100	48.326	-25.674	74.000	PEAK
4	*	12060.000	11.115	39.190	50.305	-23.695	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 : 2013/08/29 - 13:19**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11g_2412MHz**

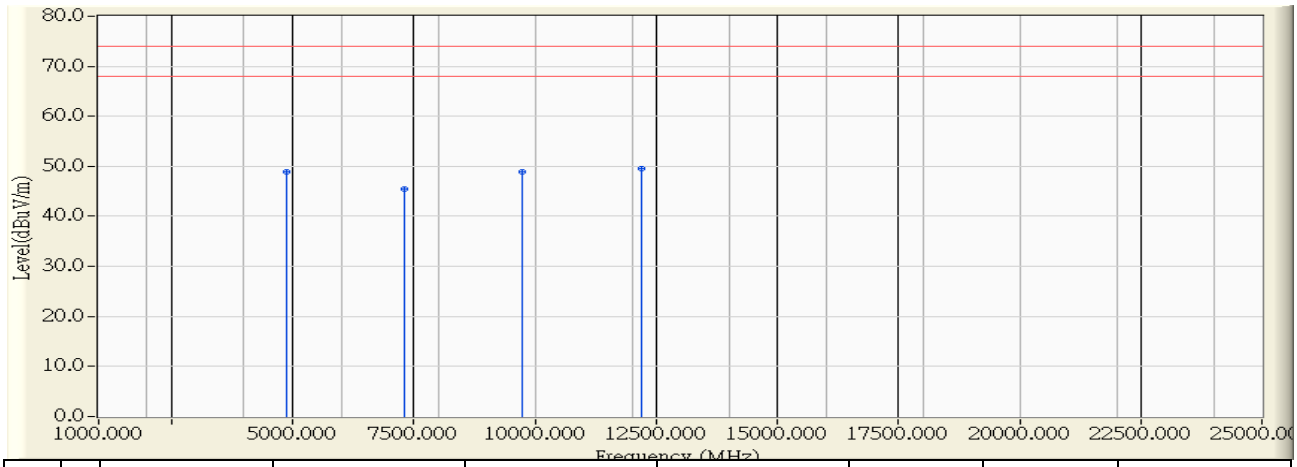


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	-0.617	49.120	48.503	-25.497	74.000	PEAK
2		7236.000	5.445	40.390	45.835	-28.165	74.000	PEAK
3		9648.000	9.226	39.780	49.006	-24.994	74.000	PEAK
4	*	12060.000	11.115	38.170	49.285	-24.715	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 : 2013/08/29 - 13:22**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11g_2437MHz**

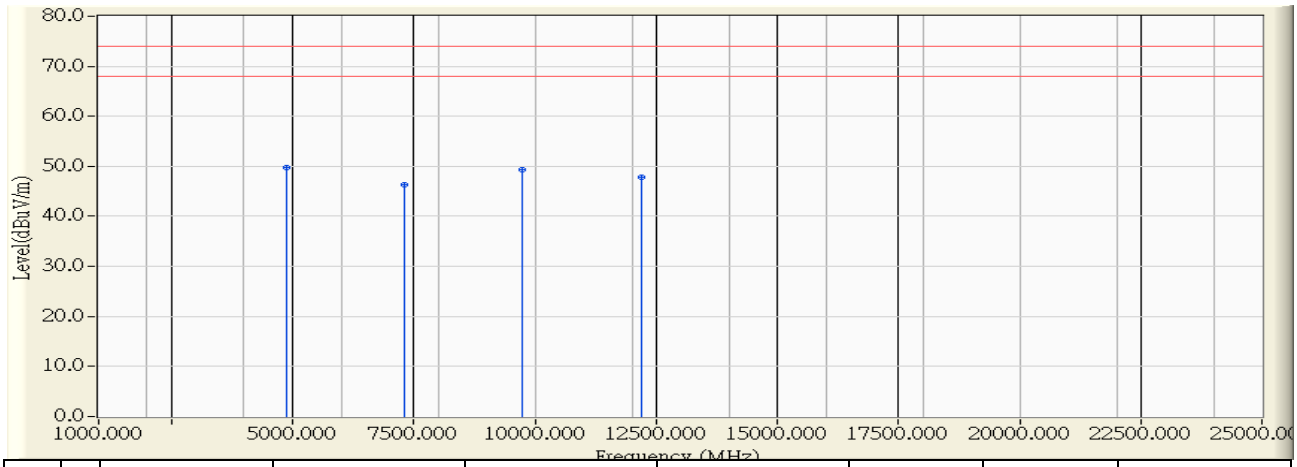


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-0.495	49.430	48.935	-25.065	74.000	PEAK
2		7311.000	5.608	39.760	45.367	-28.633	74.000	PEAK
3		9748.000	9.873	39.010	48.883	-25.117	74.000	PEAK
4	*	12185.000	11.058	38.510	49.568	-24.432	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 : 2013/08/29 - 13:26**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11g_2437MHz**

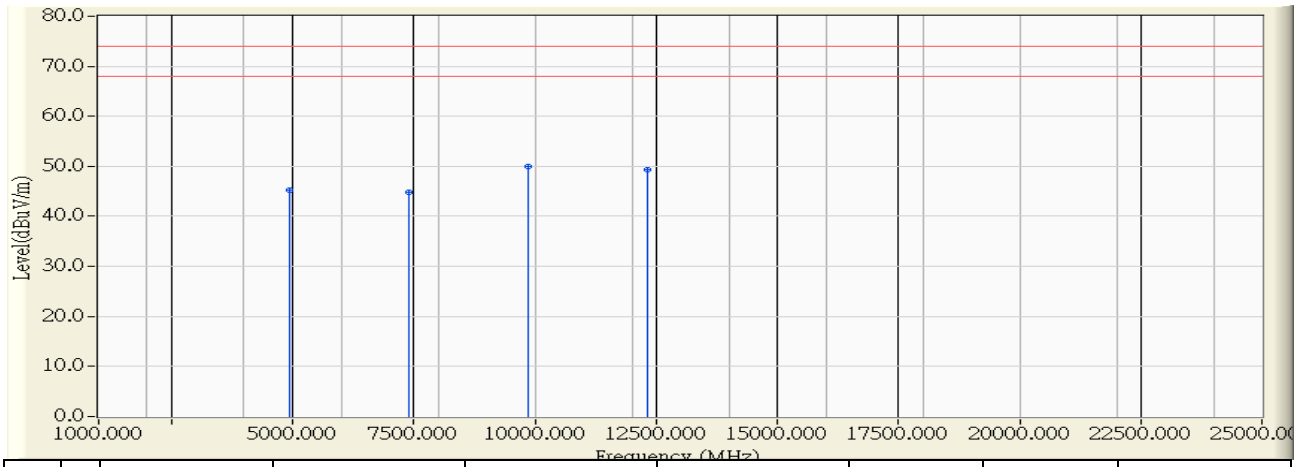


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4874.000	-0.495	50.190	49.695	-24.305	74.000	PEAK
2		7311.000	5.608	40.750	46.357	-27.643	74.000	PEAK
3		9748.000	9.873	39.360	49.233	-24.767	74.000	PEAK
4		12185.000	11.058	36.680	47.738	-26.262	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 : 2013/08/29 - 13:29**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11g_2462MHz**

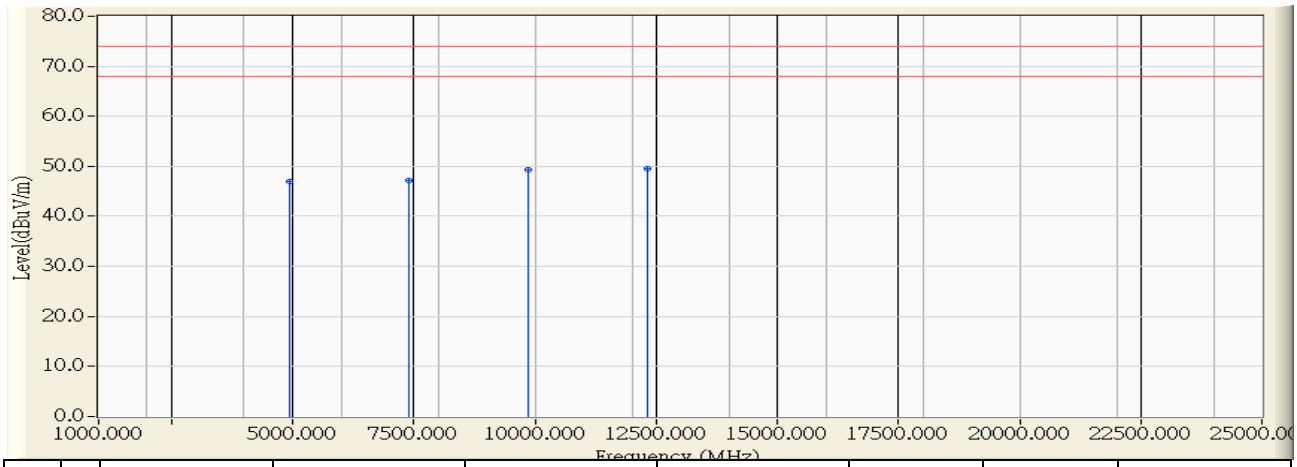


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	-0.373	45.580	45.207	-28.793	74.000	PEAK
2		7386.000	5.770	39.060	44.830	-29.170	74.000	PEAK
3	*	9848.000	10.521	39.390	49.911	-24.089	74.000	PEAK
4		12310.000	11.001	38.350	49.351	-24.649	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 : 2013/08/29 - 13:33**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11g_2462MHz**

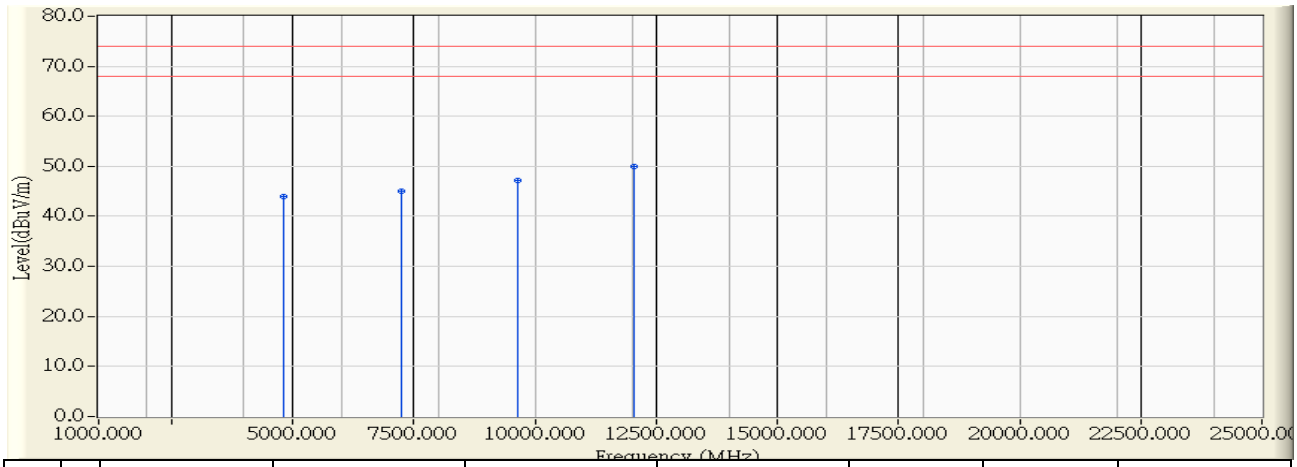


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	-0.373	47.260	46.887	-27.113	74.000	PEAK
2		7386.000	5.770	41.350	47.120	-26.880	74.000	PEAK
3		9848.000	10.521	38.830	49.351	-24.649	74.000	PEAK
4	*	12310.000	11.001	38.650	49.651	-24.349	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 : 2013/08/29 - 13:37**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11n20M_2412MHz**

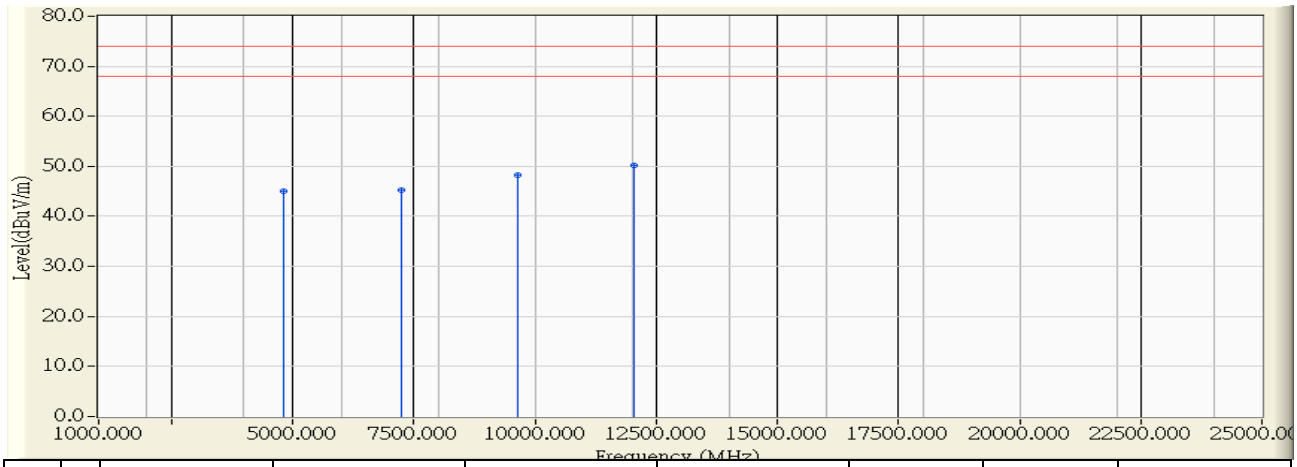


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	-0.617	44.620	44.003	-29.997	74.000	PEAK
2		7236.000	5.445	39.580	45.025	-28.975	74.000	PEAK
3		9648.000	9.226	37.980	47.206	-26.794	74.000	PEAK
4	*	12060.000	11.115	38.920	50.035	-23.965	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 : 2013/08/29 - 13:40**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11n20M_2412MHz**

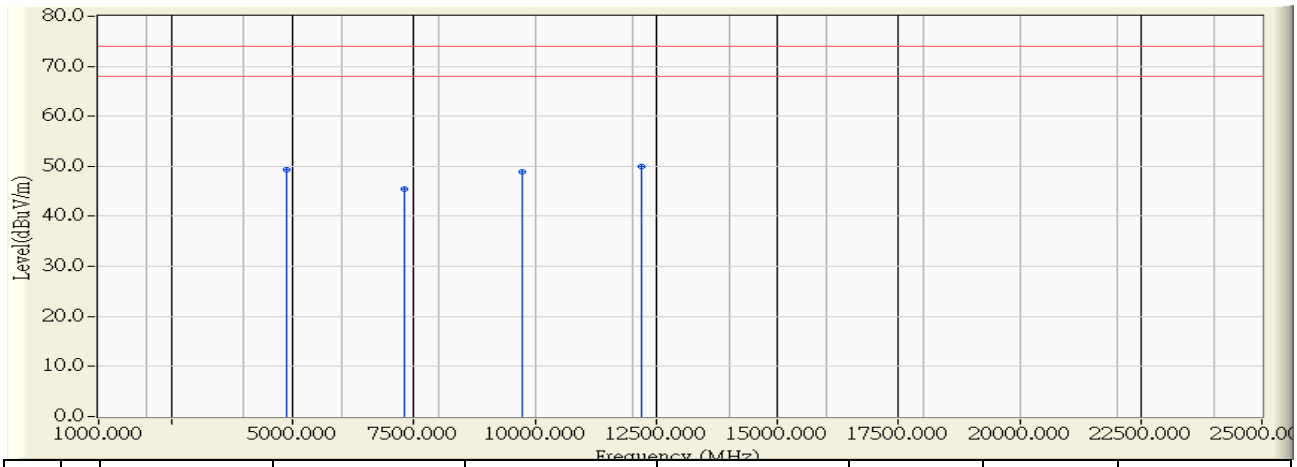


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	-0.617	45.580	44.963	-29.037	74.000	PEAK
2		7236.000	5.445	39.830	45.275	-28.725	74.000	PEAK
3		9648.000	9.226	39.070	48.296	-25.704	74.000	PEAK
4	*	12060.000	11.115	39.040	50.155	-23.845	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 : 2013/08/29 - 13:44**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11n20M_2437MHz**

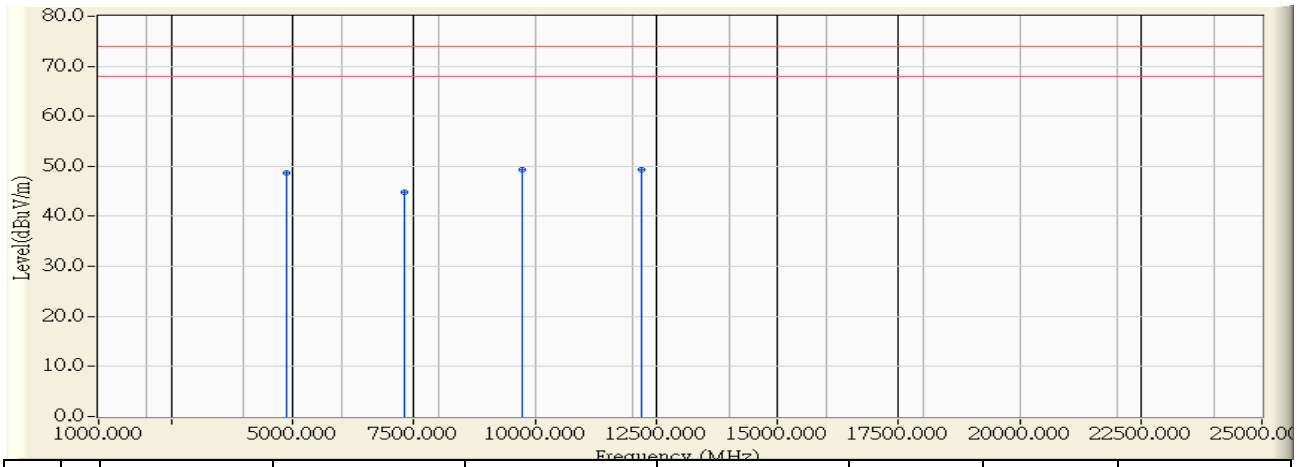


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-0.495	49.760	49.265	-24.735	74.000	PEAK
2		7311.000	5.608	39.830	45.437	-28.563	74.000	PEAK
3		9748.000	9.873	39.010	48.883	-25.117	74.000	PEAK
4	*	12185.000	11.058	38.980	50.038	-23.962	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 : 2013/08/29 - 13:46**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11n20M_2437MHz**

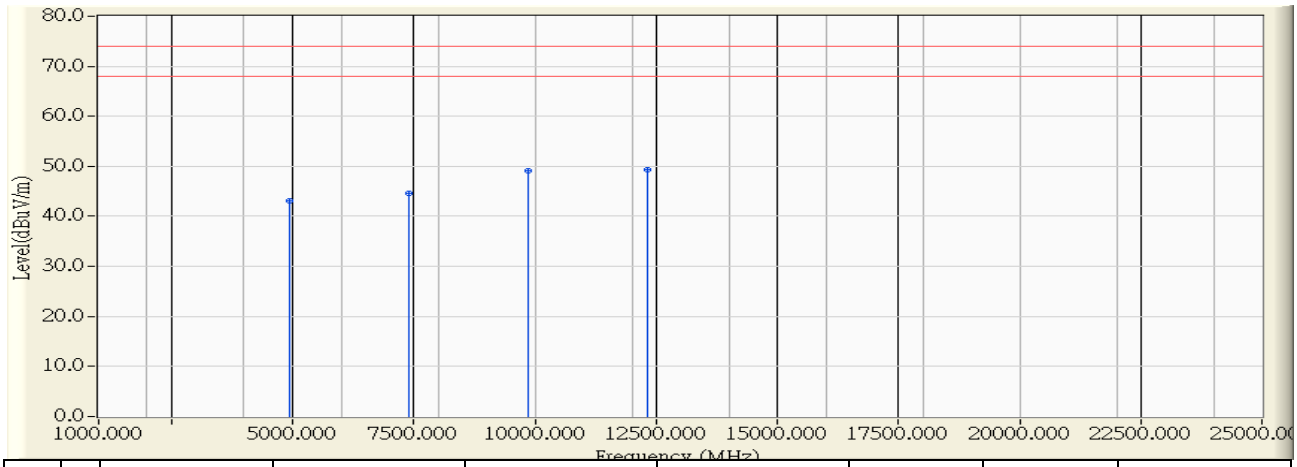


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-0.495	49.110	48.615	-25.385	74.000	PEAK
2		7311.000	5.608	39.160	44.767	-29.233	74.000	PEAK
3	*	9748.000	9.873	39.460	49.333	-24.667	74.000	PEAK
4		12185.000	11.058	38.250	49.308	-24.692	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 : 2013/08/29 - 13:50**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11n20M_2462MHz**

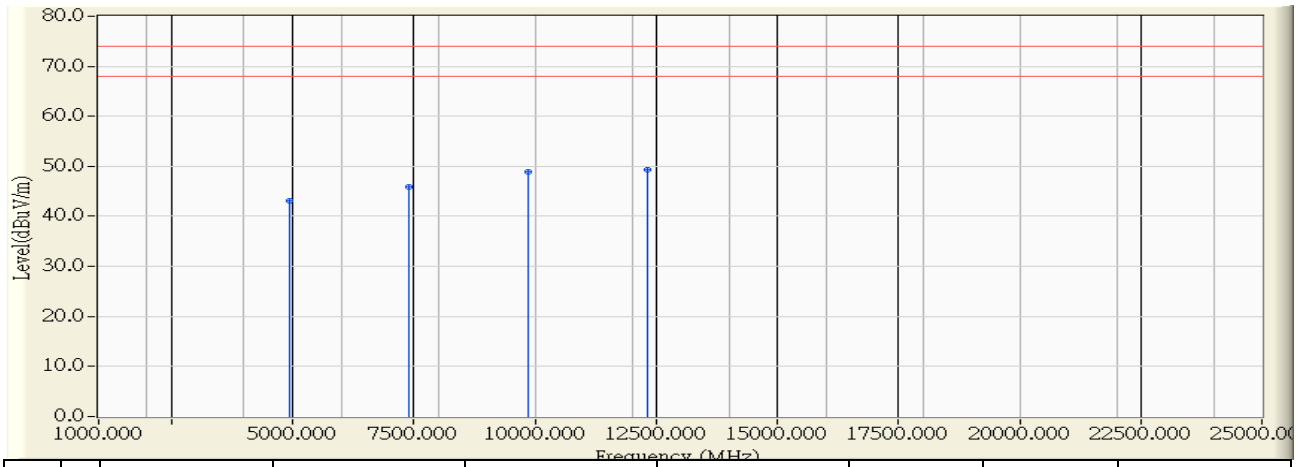


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	-0.373	43.480	43.107	-30.893	74.000	PEAK
2		7386.000	5.770	38.900	44.670	-29.330	74.000	PEAK
3		9848.000	10.521	38.640	49.161	-24.839	74.000	PEAK
4	*	12310.000	11.001	38.330	49.331	-24.669	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 : 2013/08/29 - 13:52**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11n20M_2462MHz**

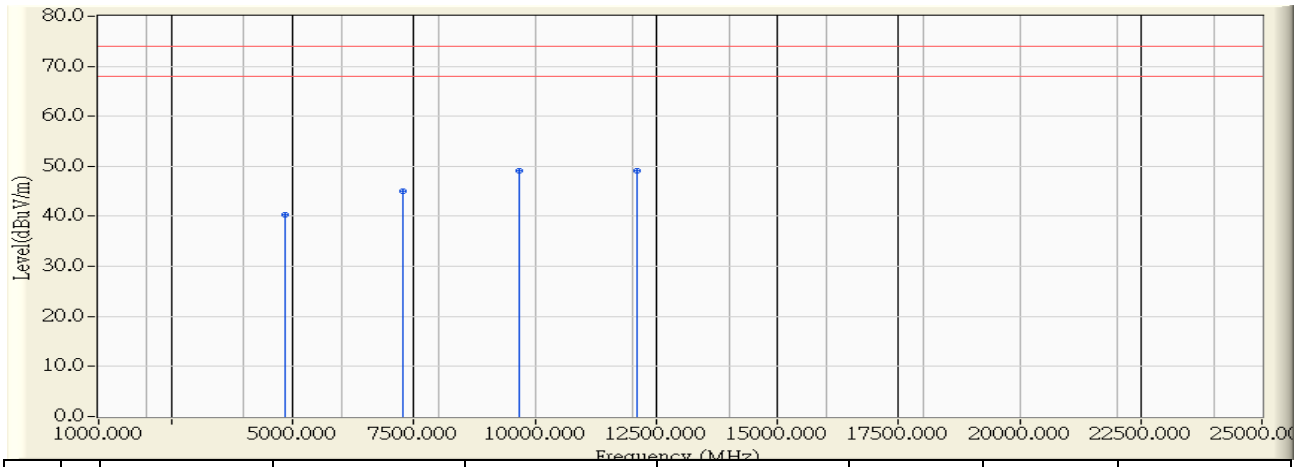


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	-0.373	43.530	43.157	-30.843	74.000	PEAK
2		7386.000	5.770	40.100	45.870	-28.130	74.000	PEAK
3		9848.000	10.521	38.410	48.931	-25.069	74.000	PEAK
4	*	12310.000	11.001	38.320	49.321	-24.679	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 : 2013/08/29 - 13:55**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11n40M_2422MHz**

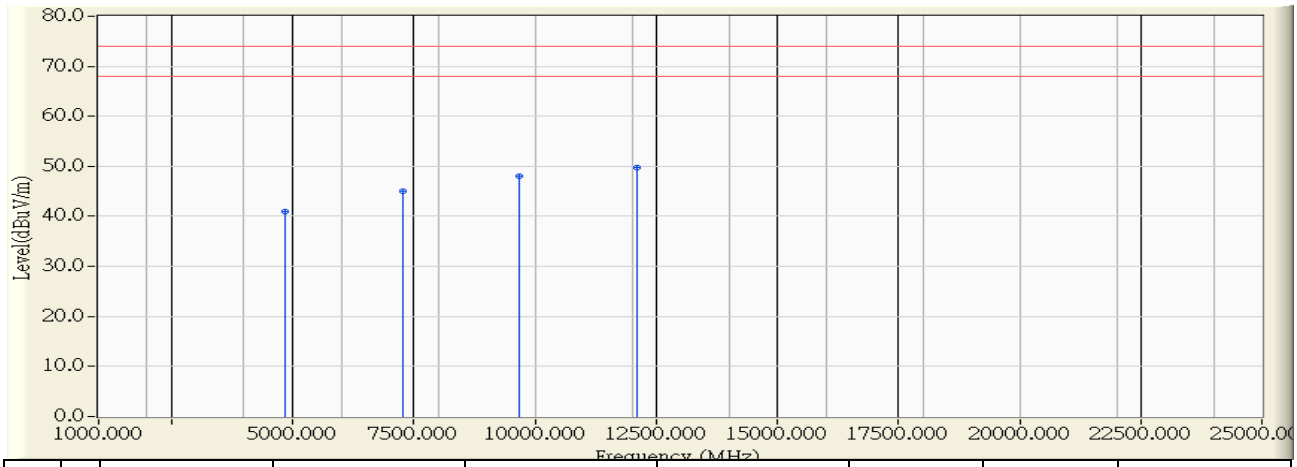


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4844.000	-0.568	40.900	40.332	-33.668	74.000	PEAK
2		7266.000	5.510	39.460	44.970	-29.030	74.000	PEAK
3		9688.000	9.485	39.570	49.055	-24.945	74.000	PEAK
4	*	12110.000	11.093	38.080	49.173	-24.827	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 : 2013/08/29 - 13:57**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11n40M_2422MHz**

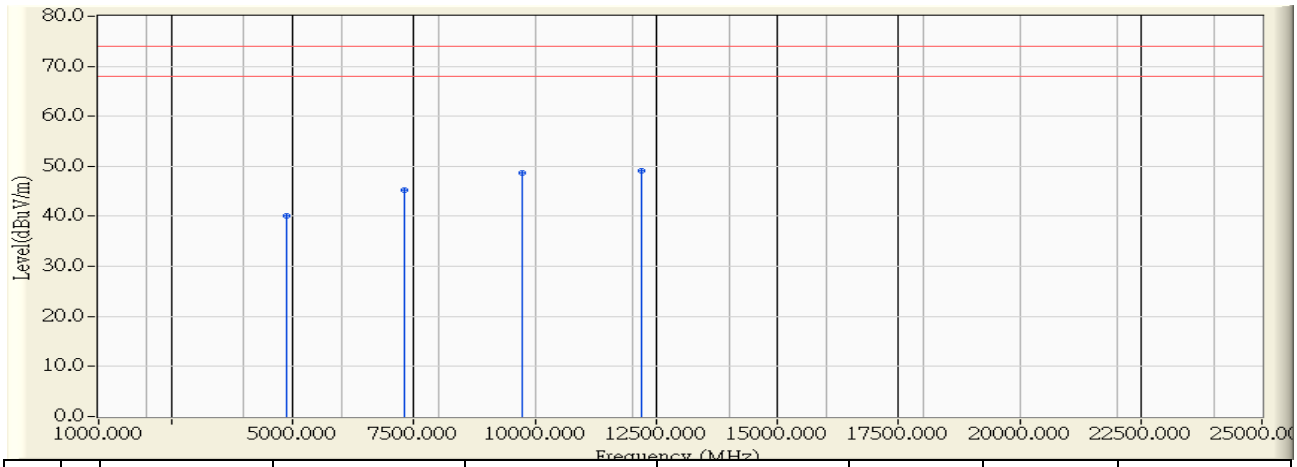


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4844.000	-0.568	41.550	40.982	-33.018	74.000	PEAK
2		7266.000	5.510	39.430	44.940	-29.060	74.000	PEAK
3		9688.000	9.485	38.500	47.985	-26.015	74.000	PEAK
4	*	12110.000	11.093	38.720	49.813	-24.187	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 : 2013/08/29 - 14:00**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11n40M_2437MHz**

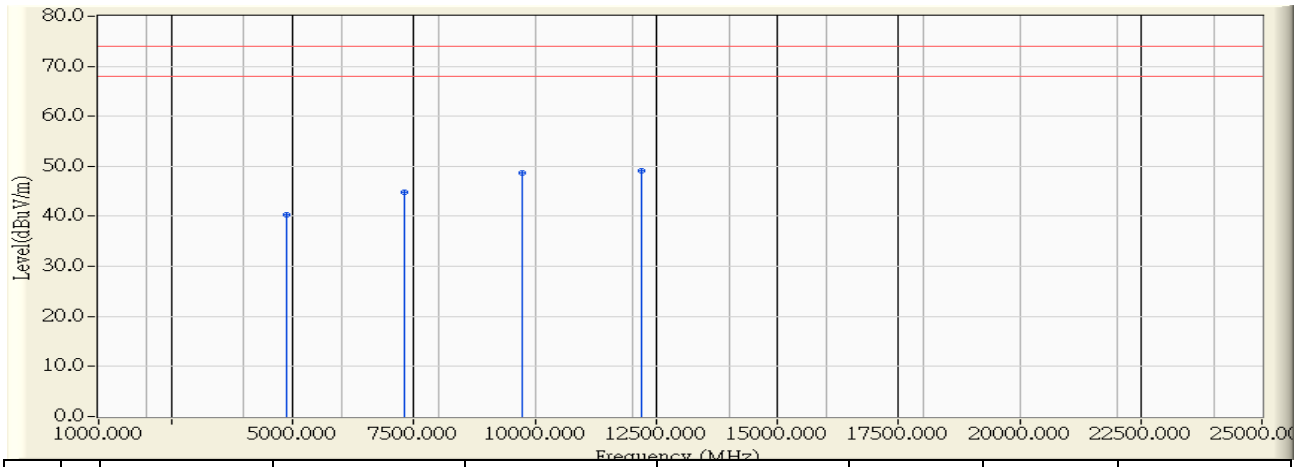


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-0.495	40.510	40.015	-33.985	74.000	PEAK
2		7311.000	5.608	39.610	45.217	-28.783	74.000	PEAK
3		9748.000	9.873	38.890	48.763	-25.237	74.000	PEAK
4	*	12185.000	11.058	38.150	49.208	-24.792	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 : 2013/08/29 - 14:01**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11n40M_2437MHz**

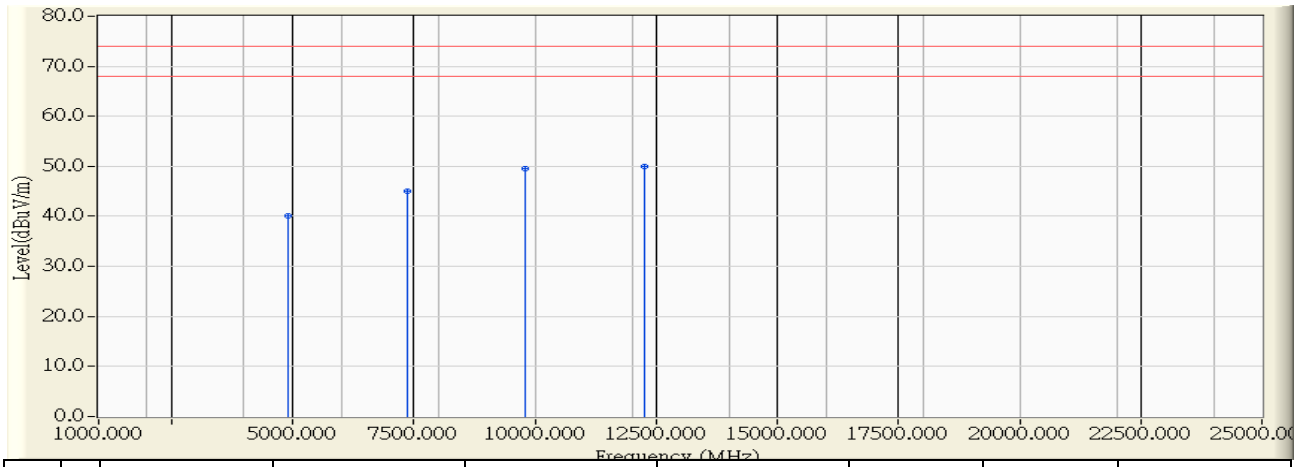


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-0.495	40.810	40.315	-33.685	74.000	PEAK
2		7311.000	5.608	39.300	44.907	-29.093	74.000	PEAK
3		9748.000	9.873	38.820	48.693	-25.307	74.000	PEAK
4	*	12185.000	11.058	38.040	49.098	-24.902	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 : 2013/08/29 - 14:03**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11n40M_2452MHz**

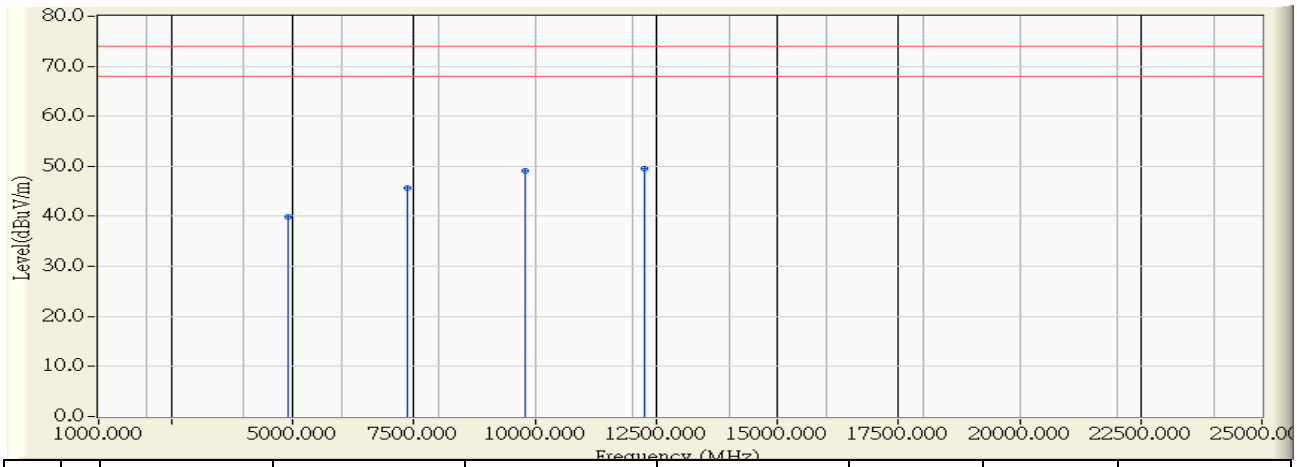


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4904.000	-0.421	40.430	40.009	-33.991	74.000	PEAK
2		7356.000	5.705	39.240	44.945	-29.055	74.000	PEAK
3		9808.000	10.262	39.370	49.632	-24.368	74.000	PEAK
4	*	12260.000	11.024	38.920	49.944	-24.056	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 : 2013/08/29 - 14:09**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11n40M_2452MHz**

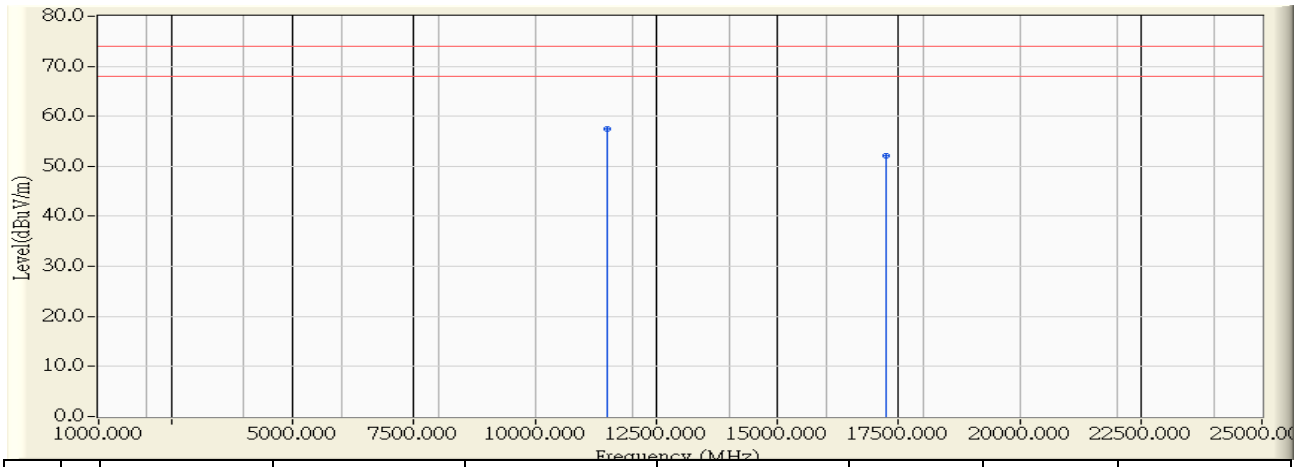


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4904.000	-0.421	40.360	39.939	-34.061	74.000	PEAK
2		7356.000	5.705	40.010	45.715	-28.285	74.000	PEAK
3		9808.000	10.262	38.910	49.172	-24.828	74.000	PEAK
4	*	12260.000	11.024	38.540	49.564	-24.436	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 : 2013/08/24 - 11:57**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11a_5745MHz**

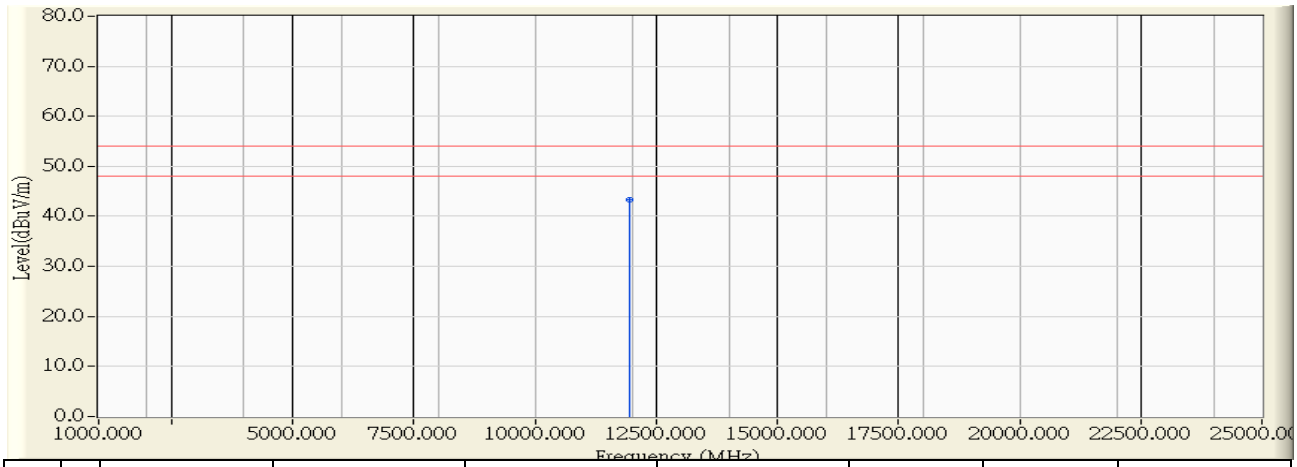


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11490.000	11.534	45.900	57.433	-16.567	74.000	PEAK
2		17235.000	15.422	36.650	52.072	-21.928	74.000	PEAK

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 : 2013/08/24 - 11:57**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11a_5745MHz**

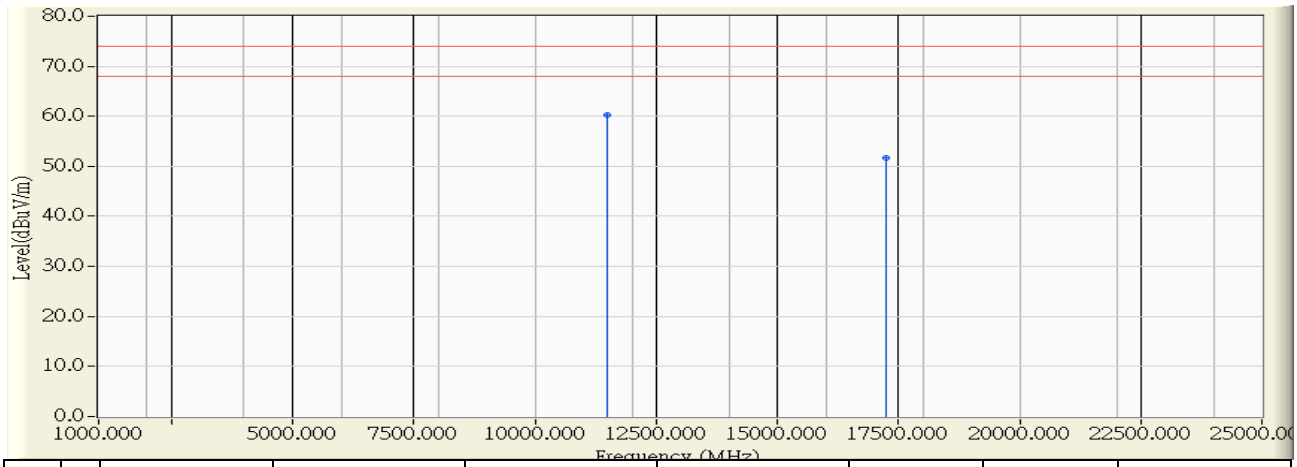


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11940.000	11.190	32.109	43.299	-10.701	54.000	AVERAGE

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 : 2013/08/24 - 12:01**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11a_5745MHz**

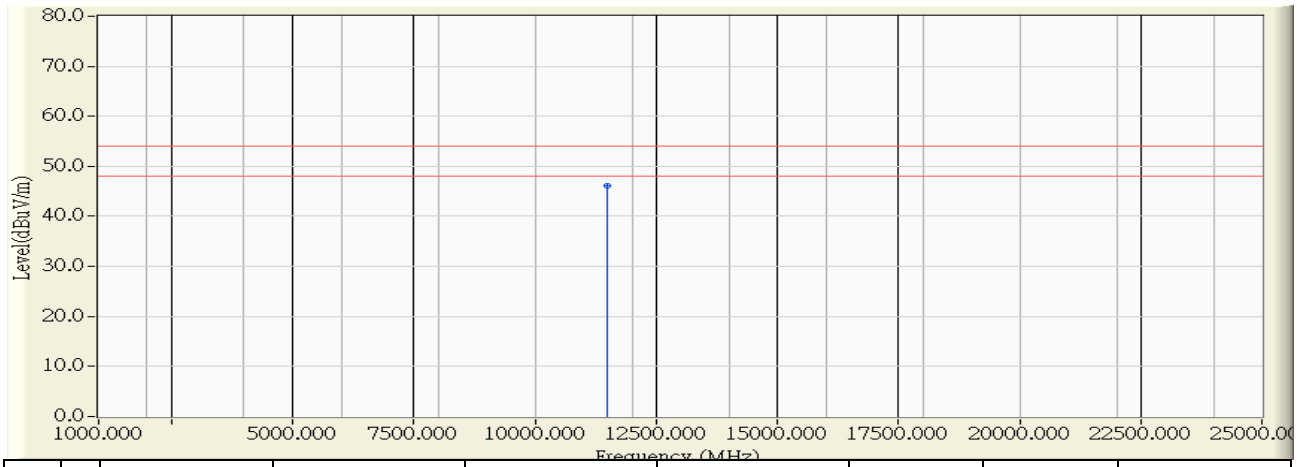


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11490.000	11.534	48.690	60.223	-13.777	74.000	PEAK
2		17235.000	15.422	36.210	51.632	-22.368	74.000	PEAK

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 : 2013/08/24 - 12:01**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11a_5745MHz**

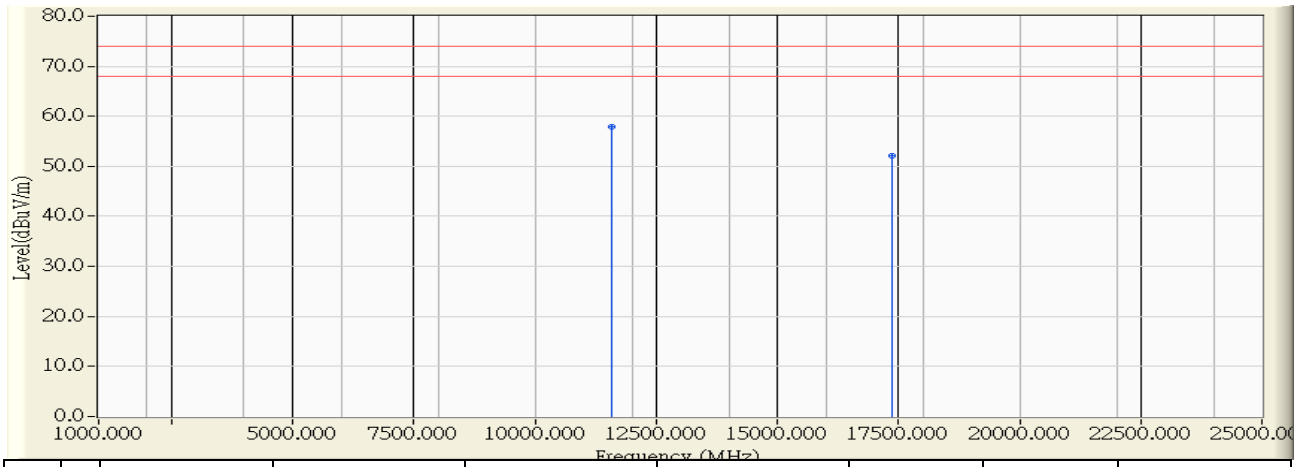


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11490.000	11.534	34.650	46.183	-7.817	54.000	AVERAGE

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 : 2013/08/24 - 12:03**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11a_5785MHz**

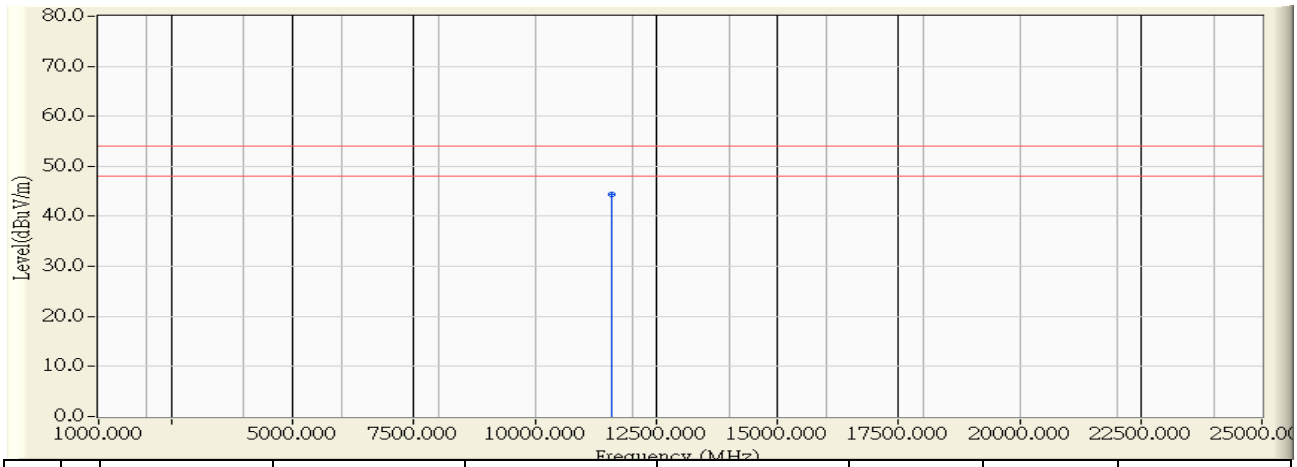


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11570.000	11.477	46.410	57.887	-16.113	74.000	PEAK
2		17355.000	15.974	36.250	52.224	-21.776	74.000	PEAK

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 : 2013/08/24 - 12:03**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11a_5785MHz**

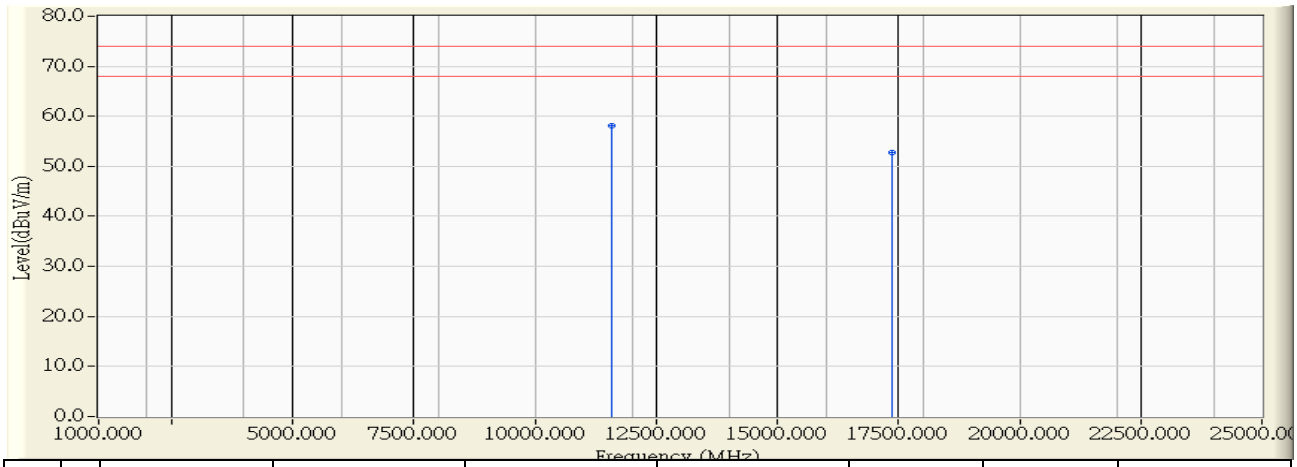


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11570.000	11.477	32.825	44.302	-9.698	54.000	AVERAGE

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 : 2013/08/24 - 12:06**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11a_5785MHz**

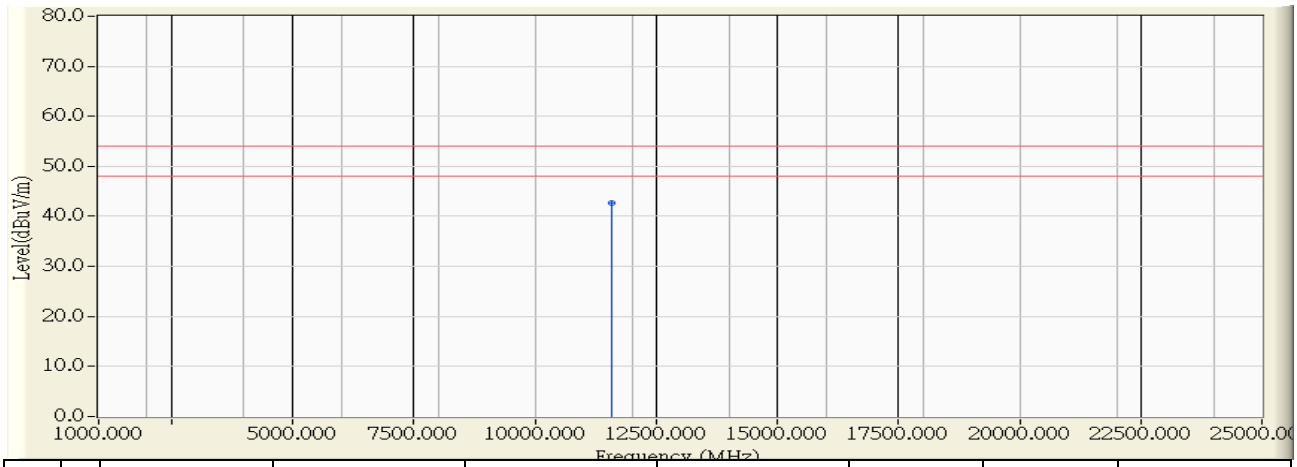


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11570.000	11.477	46.600	58.077	-15.923	74.000	PEAK
2		17355.000	15.974	36.830	52.804	-21.196	74.000	PEAK

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 : 2013/08/24 - 12:07**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11a_5785MHz**

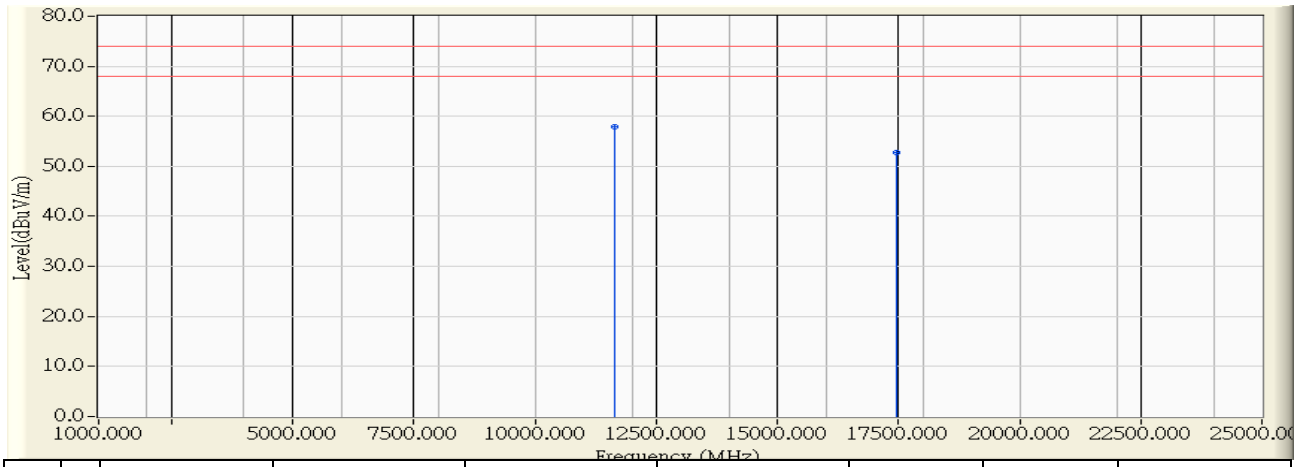


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11570.000	11.477	31.120	42.597	-11.403	54.000	AVERAGE

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 : 2013/08/24 - 12:09**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11a_5825MHz**

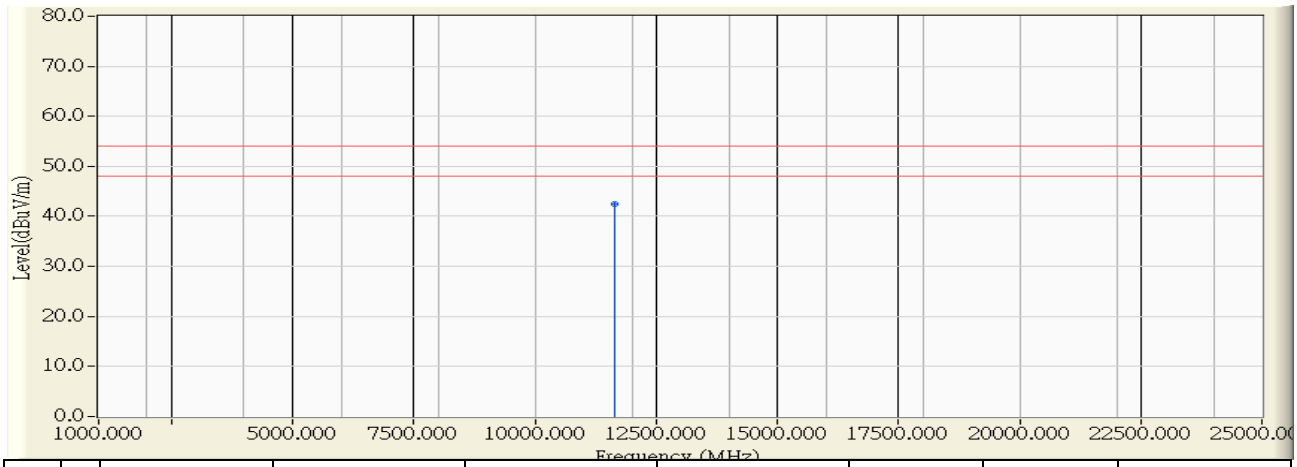


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11650.000	11.415	46.540	57.955	-16.045	74.000	PEAK
2		17475.000	16.526	36.340	52.866	-21.134	74.000	PEAK

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 : 2013/08/24 - 12:09**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11a_5825MHz**

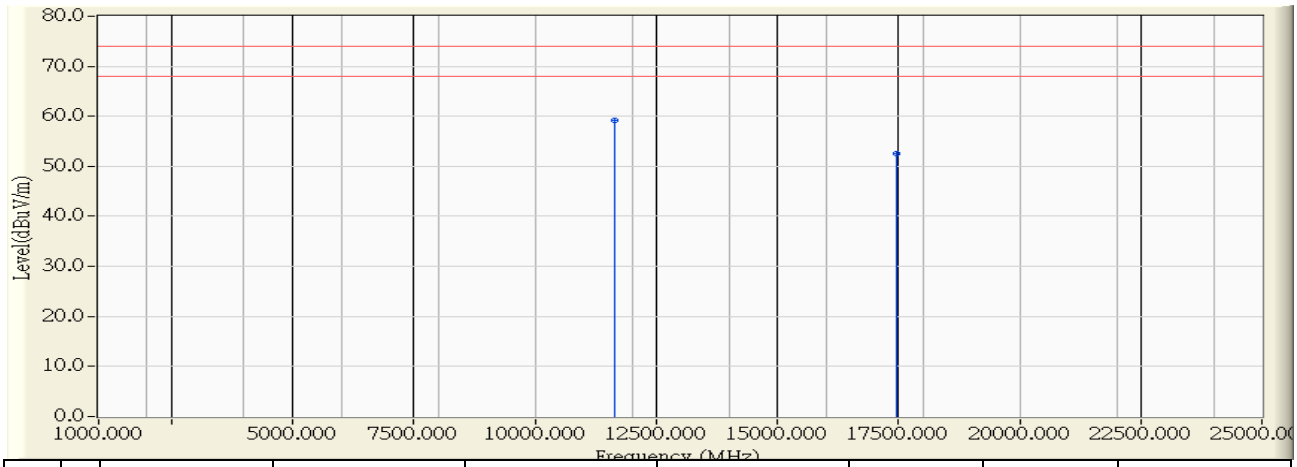


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11650.000	11.415	30.970	42.385	-11.615	54.000	AVERAGE

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 : 2013/08/24 - 12:11**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11a_5825MHz**

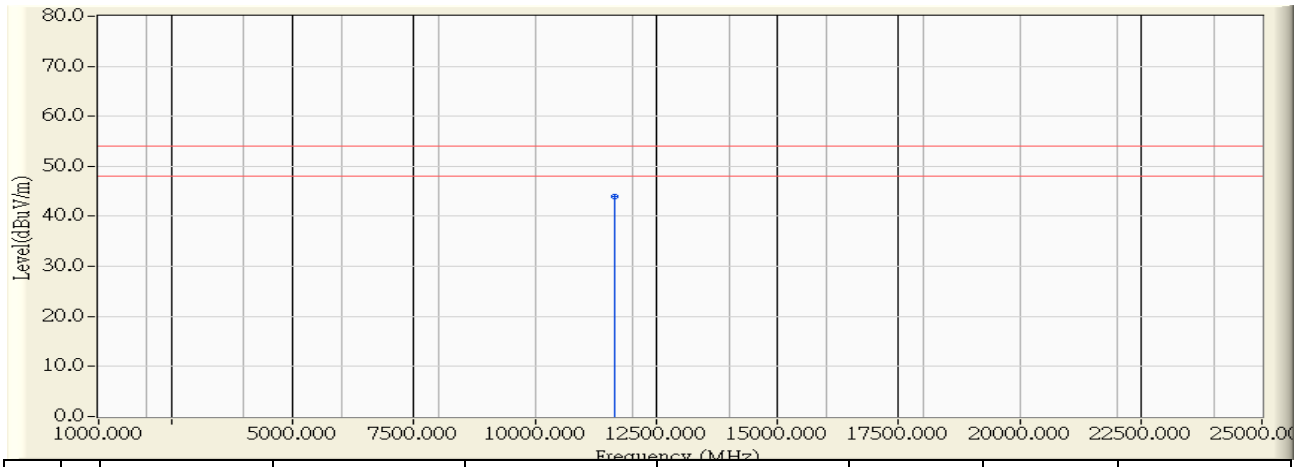


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11650.000	11.415	47.750	59.165	-14.835	74.000	PEAK
2		17475.000	16.526	35.960	52.486	-21.514	74.000	PEAK

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 : 2013/08/24 - 12:12**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11a_5825MHz**

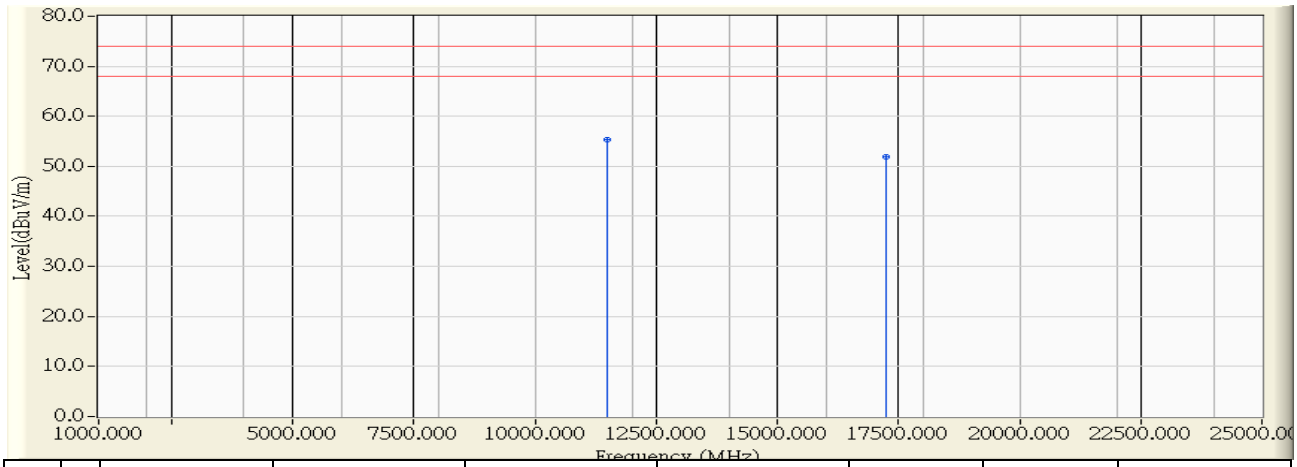


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11650.000	11.415	32.540	43.955	-10.045	54.000	AVERAGE

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 : 2013/08/24 - 12:13**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11n20M_5745MHz**

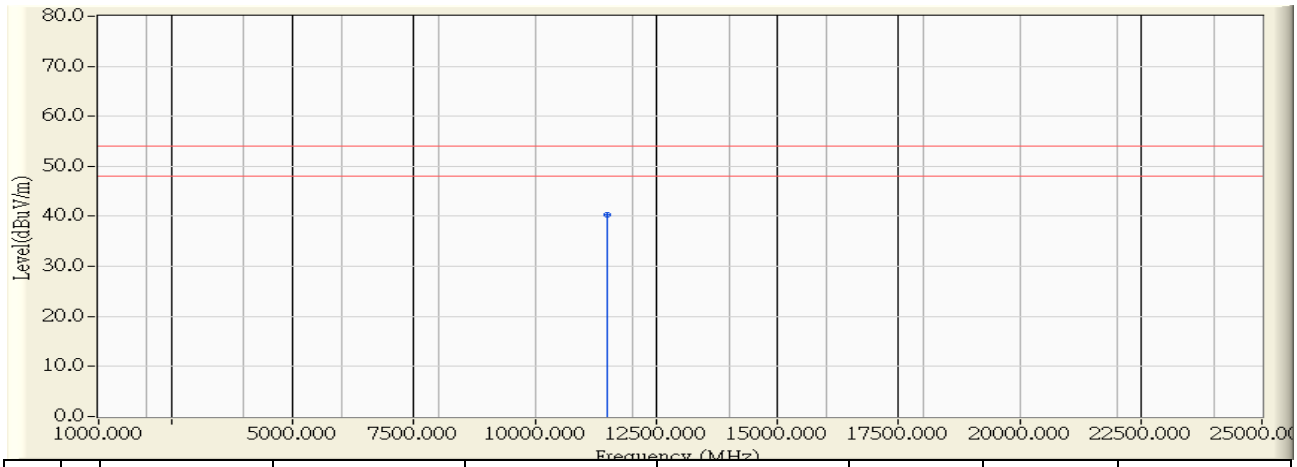


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11490.000	11.534	43.730	55.263	-18.737	74.000	PEAK
2		17235.000	15.422	36.400	51.822	-22.178	74.000	PEAK

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 : 2013/08/24 - 12:14**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11n20M_5745MHz**

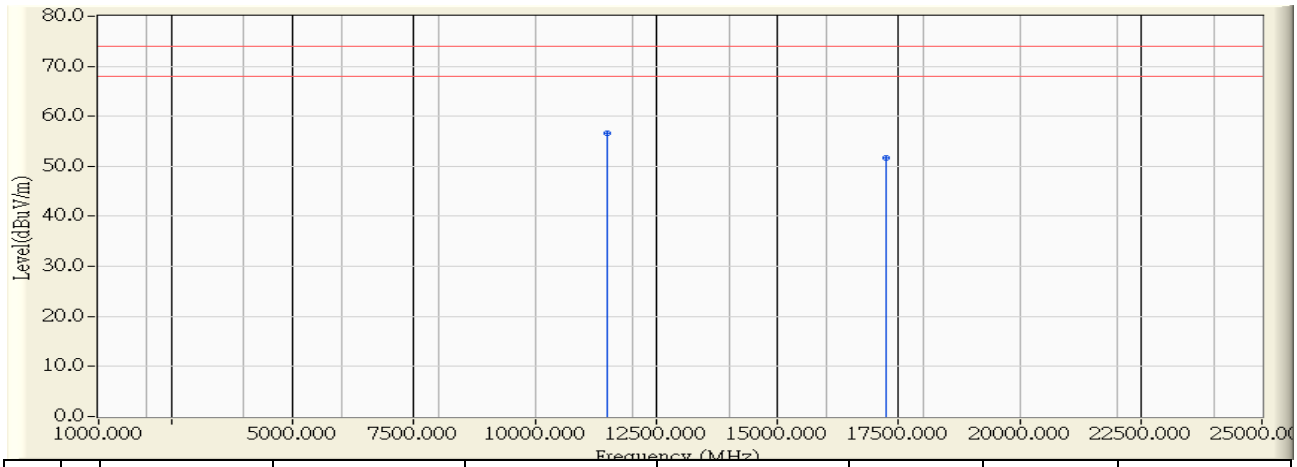


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11490.000	11.534	28.830	40.363	-13.637	54.000	AVERAGE

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 : 2013/08/24 - 12:16**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11n20M_5745MHz**

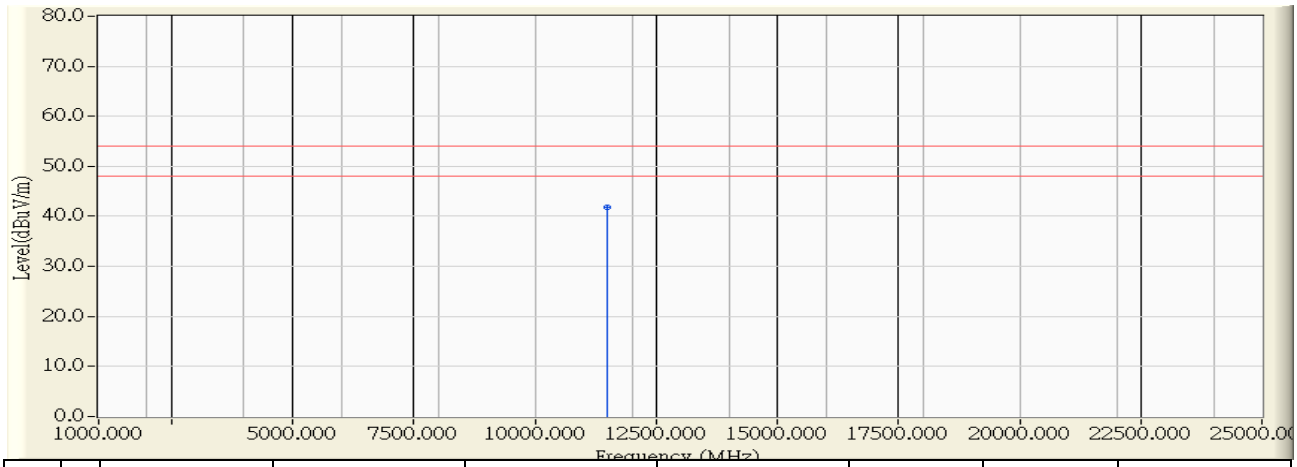


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11490.000	11.534	45.060	56.593	-17.407	74.000	PEAK
2		17235.000	15.422	36.240	51.662	-22.338	74.000	PEAK

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 : 2013/08/24 - 12:16**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11n20M_5745MHz**

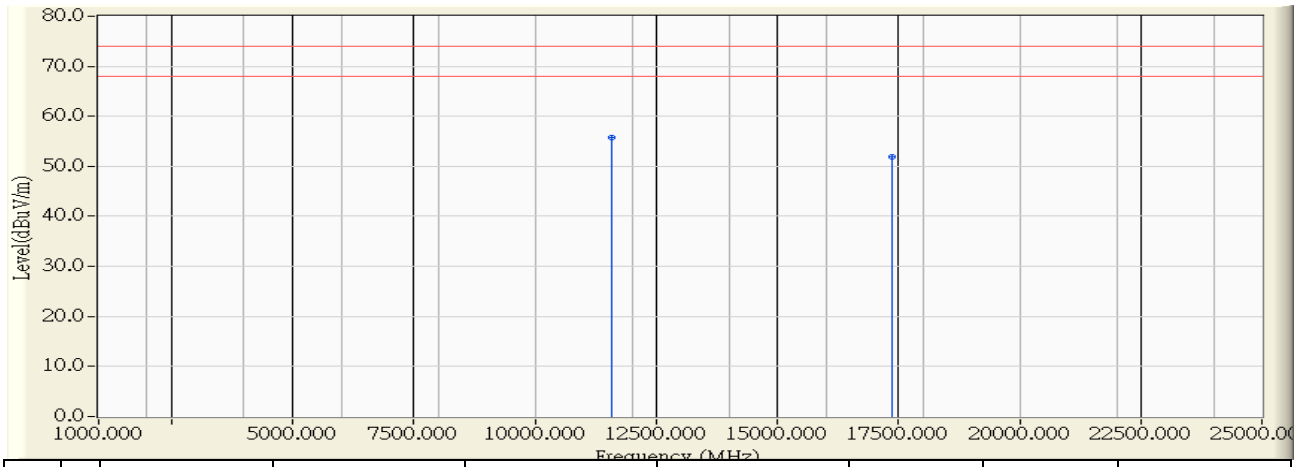


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11490.000	11.534	30.200	41.733	-12.267	54.000	AVERAGE

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 : 2013/08/24 - 12:18**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11n20M_5785MHz**

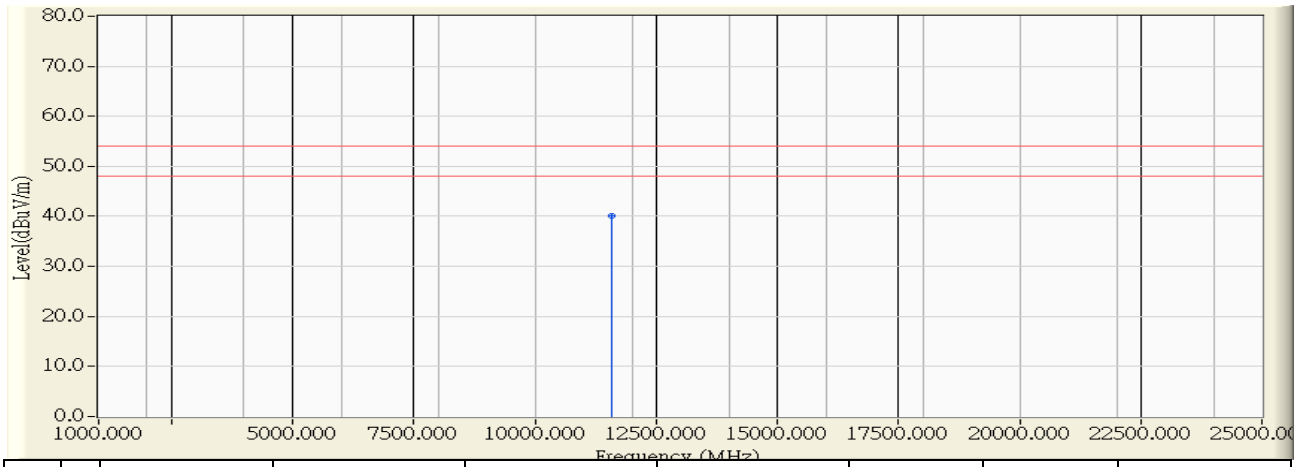


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11570.000	11.477	44.220	55.697	-18.303	74.000	PEAK
2		17355.000	15.974	35.990	51.964	-22.036	74.000	PEAK

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 : 2013/08/24 - 12:19**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11n20M_5785MHz**

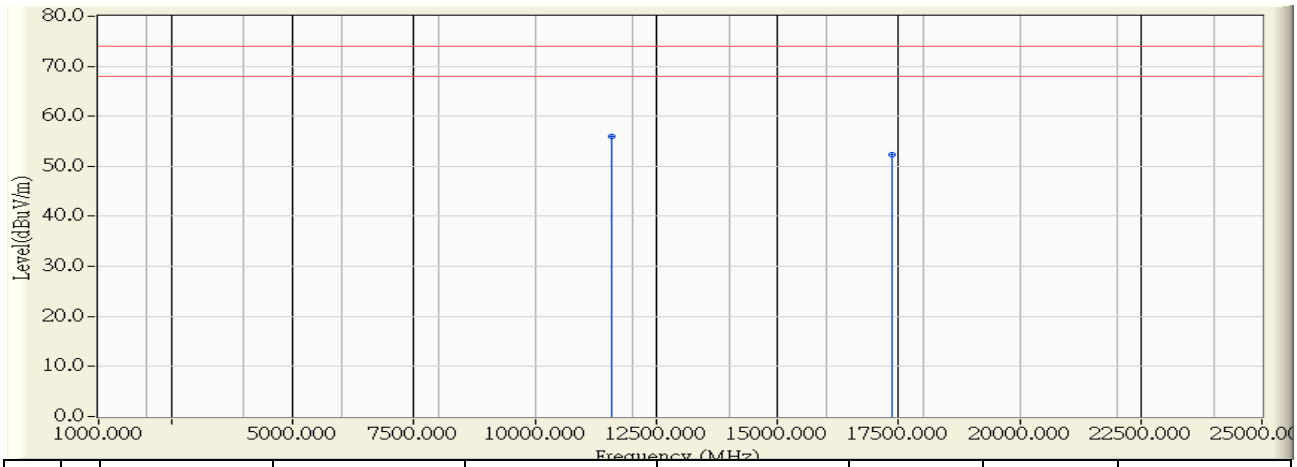


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11570.000	11.477	28.710	40.187	-13.813	54.000	AVERAGE

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 : 2013/08/24 - 12:20**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11n20M_5785MHz**

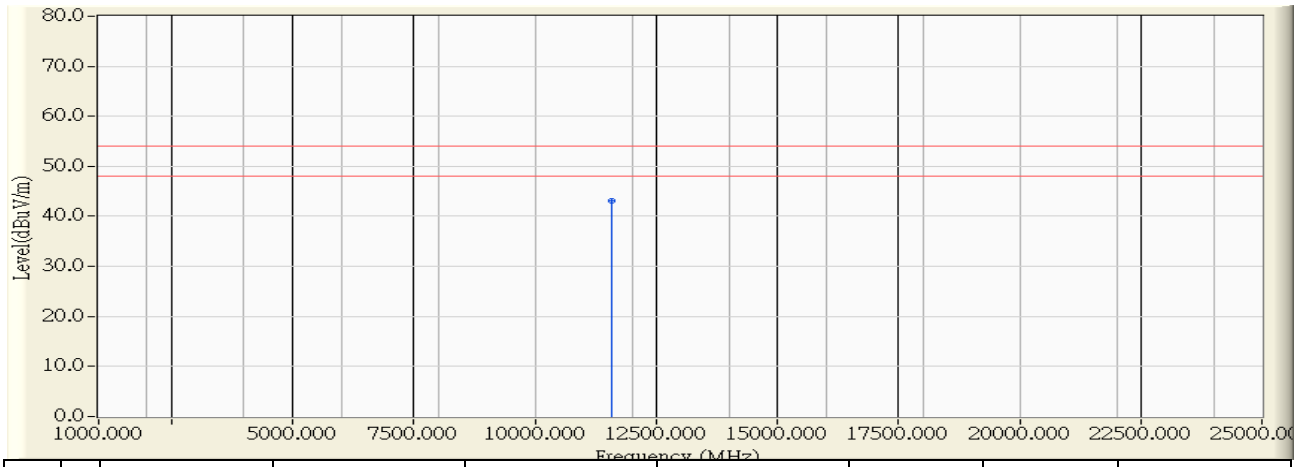


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		11570.000	11.477	44.540	56.017	-17.983	74.000	PEAK
2	*	17355.000	15.974	36.320	52.294	-21.706	74.000	PEAK

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 : 2013/08/24 - 12:20**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11n20M_5785MHz**

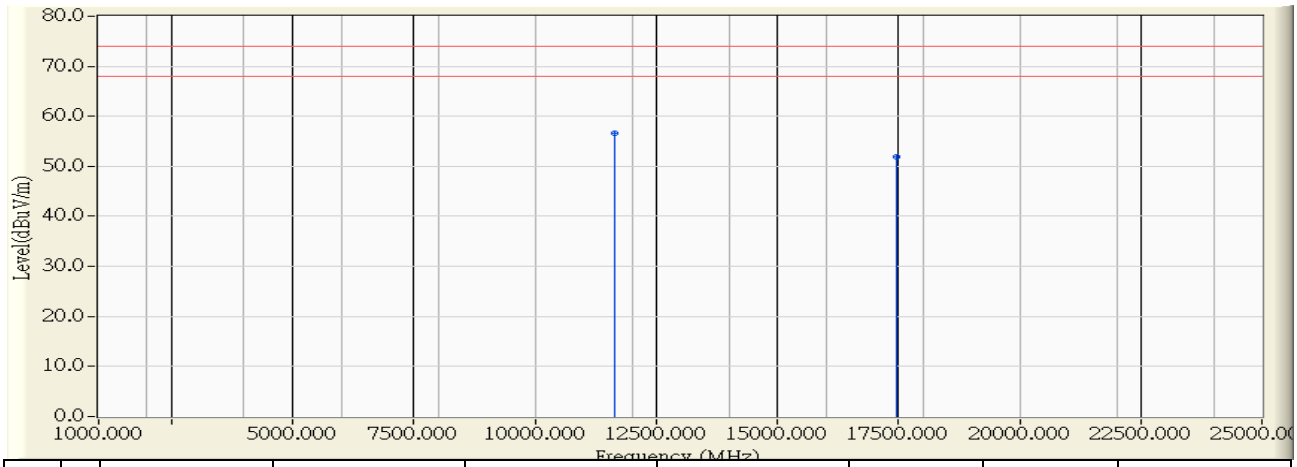


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11570.000	11.477	31.570	43.047	-10.953	54.000	AVERAGE

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 : 2013/08/24 - 12:21**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11n20M_5825MHz**

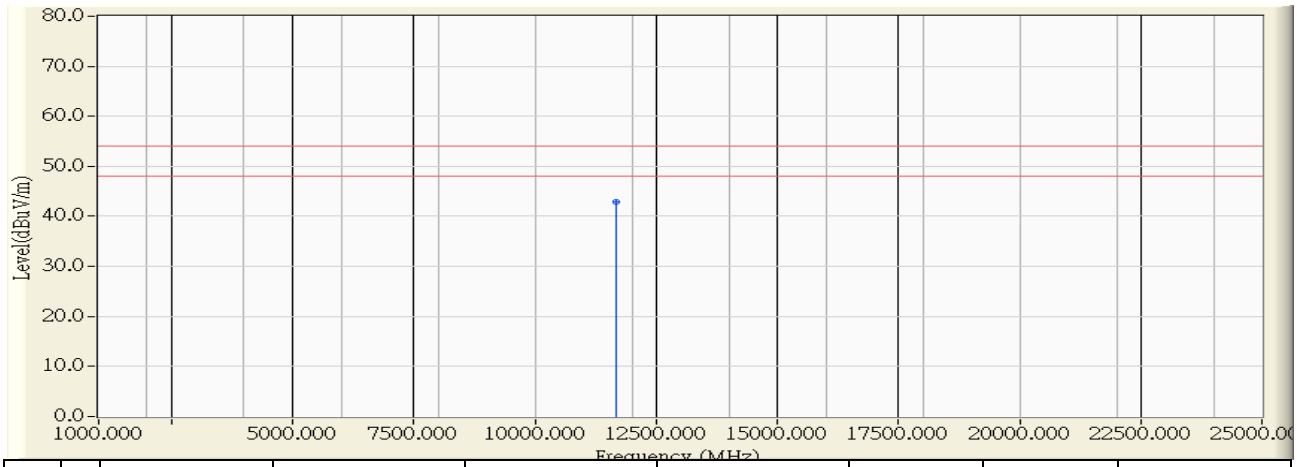


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11650.000	11.415	45.310	56.725	-17.275	74.000	PEAK
2		17475.000	16.526	35.310	51.836	-22.164	74.000	PEAK

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 : 2013/08/24 - 12:22**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11n20M_5825MHz**

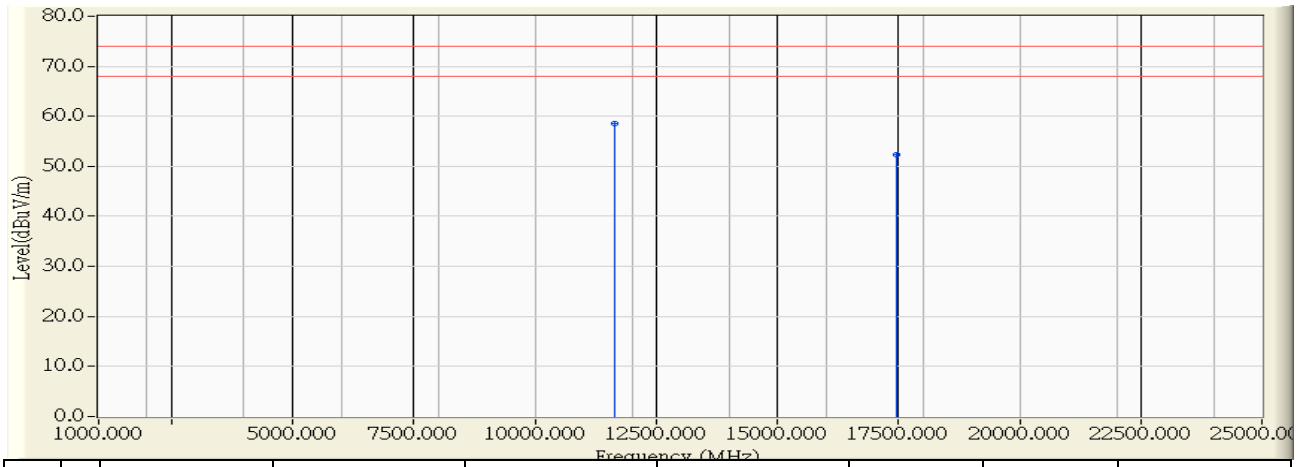


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11690.000	11.384	31.590	42.974	-11.026	54.000	AVERAGE

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 : 2013/08/24 - 12:23**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11n20M_5825MHz**

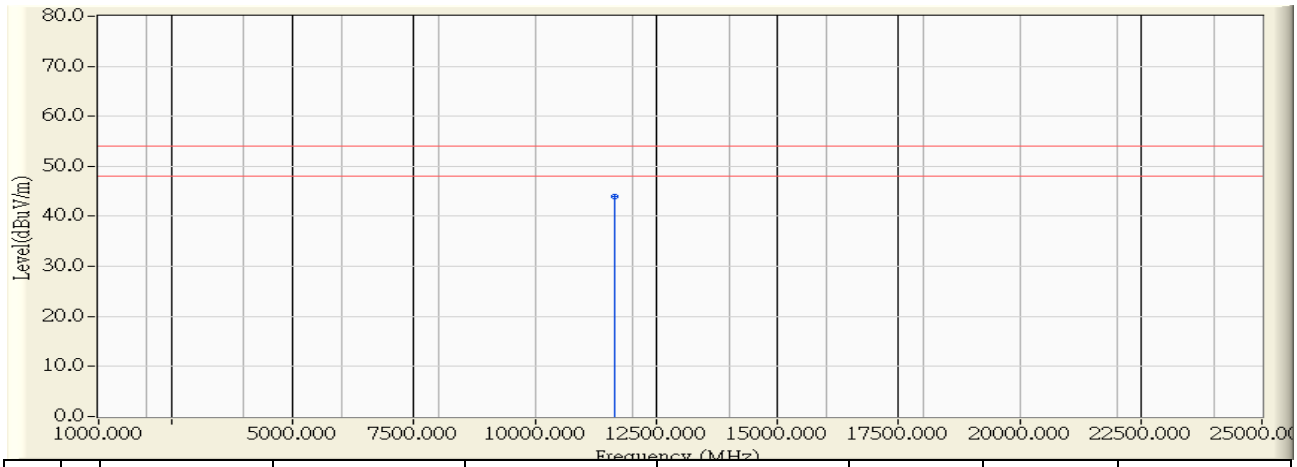


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		11650.000	11.415	47.220	58.635	-15.365	74.000	PEAK
2	*	17475.000	16.526	35.860	52.386	-21.614	74.000	PEAK

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 : 2013/08/24 - 12:23**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11n20M_5825MHz**

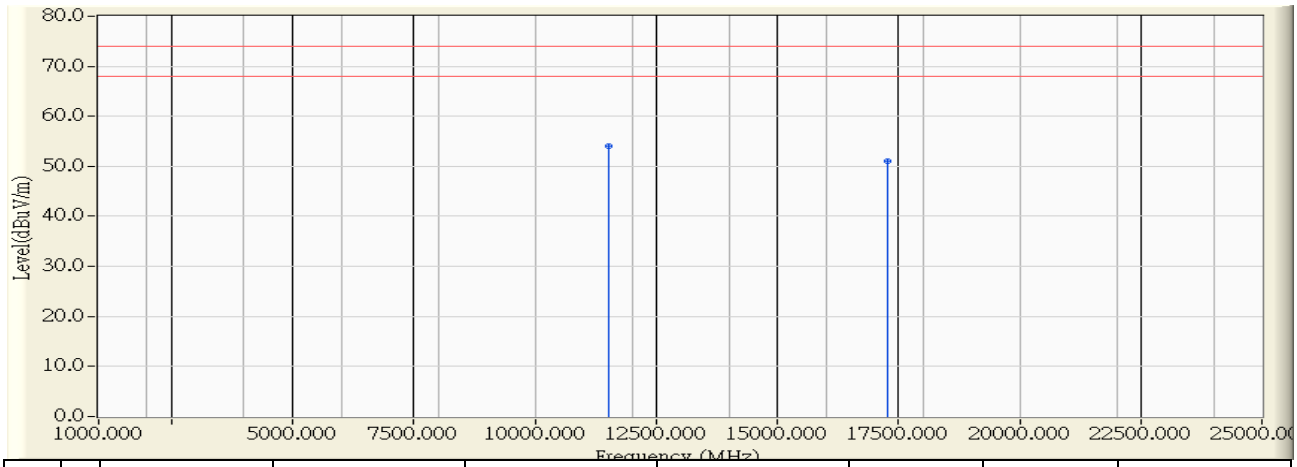


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11650.000	11.415	32.490	43.905	-10.095	54.000	AVERAGE

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 : 2013/08/24 - 12:25**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11n40M_5755MHz**

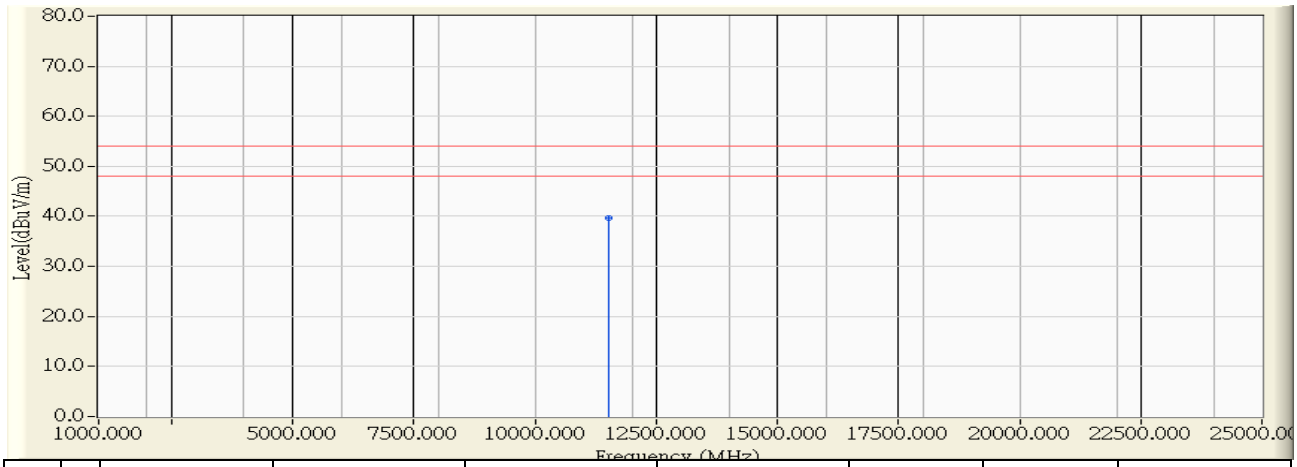


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11510.000	11.523	42.520	54.043	-19.957	74.000	PEAK
2		17265.000	15.560	35.460	51.020	-22.980	74.000	PEAK

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 : 2013/08/24 - 12:26**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11n40M_5755MHz**

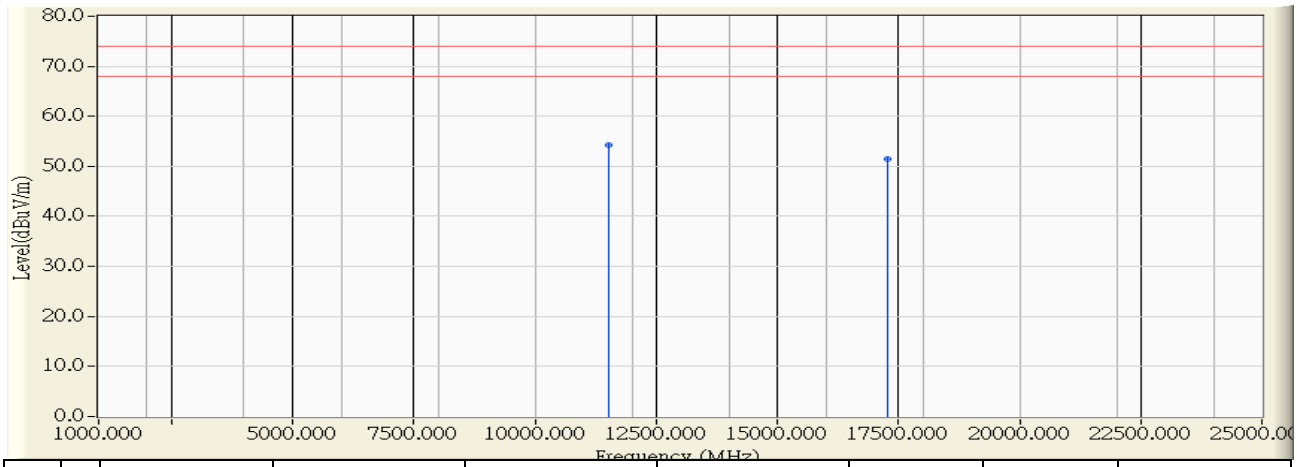


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11510.000	11.523	28.130	39.653	-14.347	54.000	AVERAGE

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 : 2013/08/24 - 12:28**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11n40M_5755MHz**

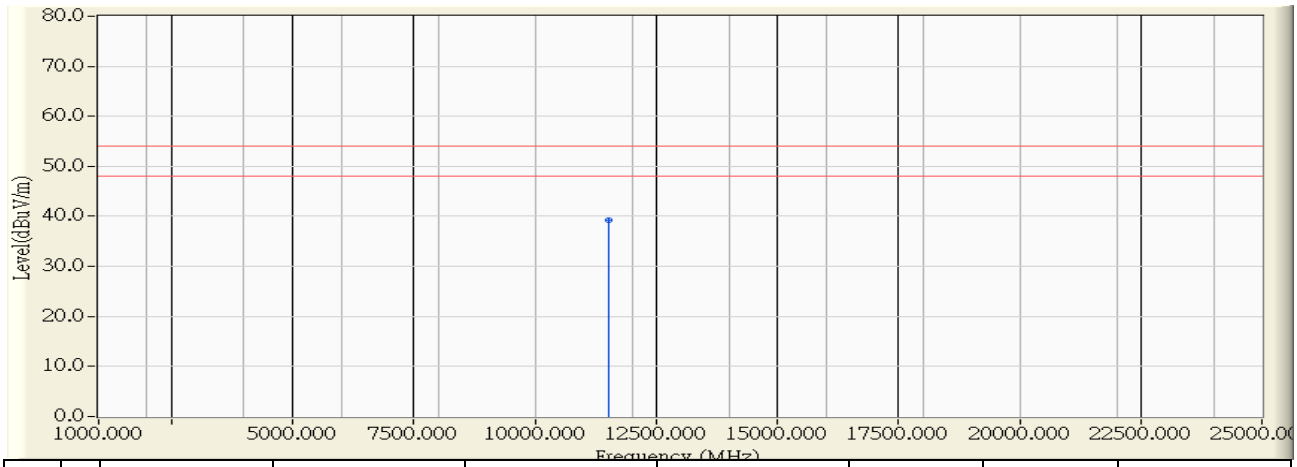


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11510.000	11.523	42.640	54.163	-19.837	74.000	PEAK
2		17265.000	15.560	36.000	51.560	-22.440	74.000	PEAK

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 : 2013/08/24 - 12:28**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11n40M_5755MHz**

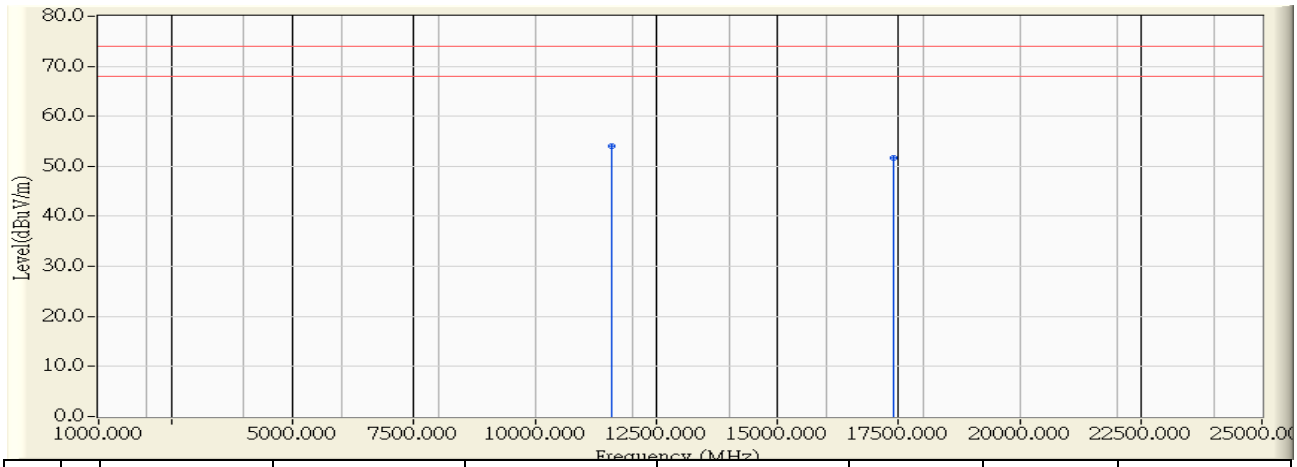


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11510.000	11.523	27.650	39.173	-14.827	54.000	AVERAGE

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 : 2013/08/24 - 12:30**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11n40M_5795MHz**

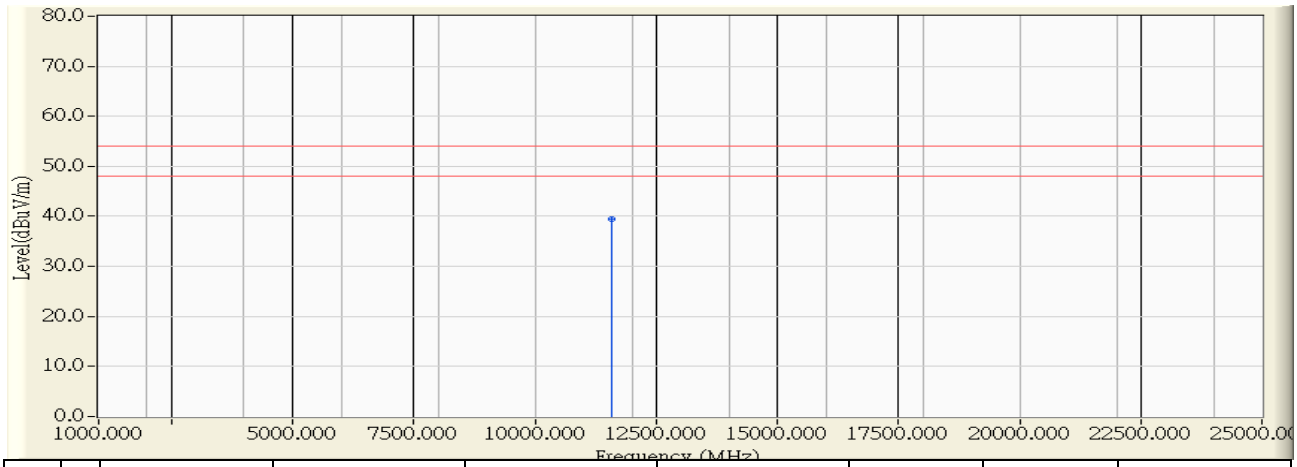


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11590.000	11.461	42.640	54.101	-19.899	74.000	PEAK
2		17385.000	16.112	35.590	51.702	-22.298	74.000	PEAK

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 : 2013/08/24 - 12:31**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11n40M_5795MHz**

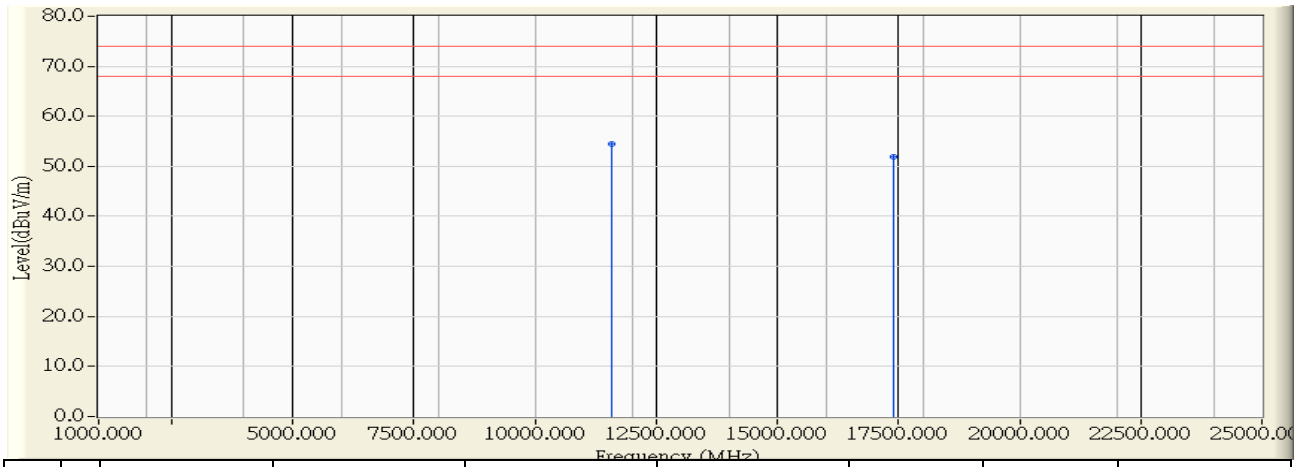


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11590.000	11.461	28.070	39.531	-14.469	54.000	AVERAGE

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 : 2013/08/24 - 12:32**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11n40M_5795MHz**

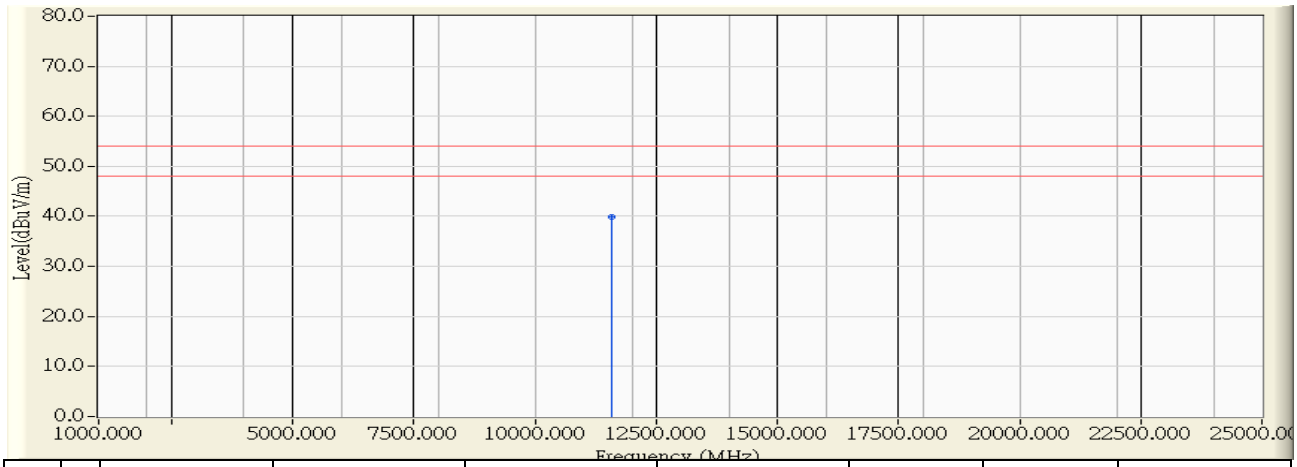


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11590.000	11.461	42.970	54.431	-19.569	74.000	PEAK
2		17385.000	16.112	35.880	51.992	-22.008	74.000	PEAK

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 : 2013/08/24 - 12:32**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11n40M_5795MHz**

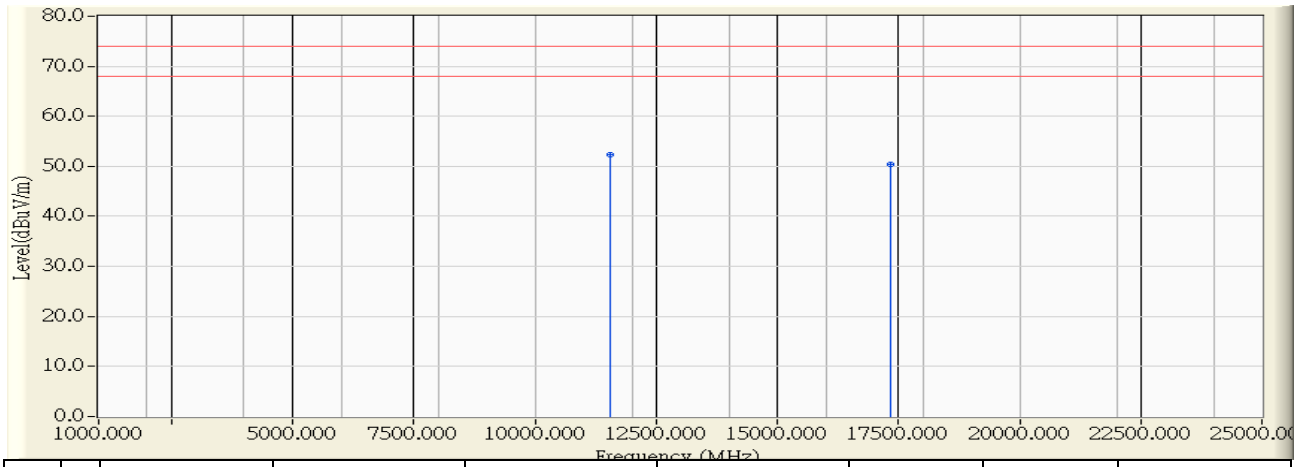


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11590.000	11.461	28.517	39.978	-14.022	54.000	AVERAGE

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 : 2013/08/24 - 12:34**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11ac80M_5775MHz**

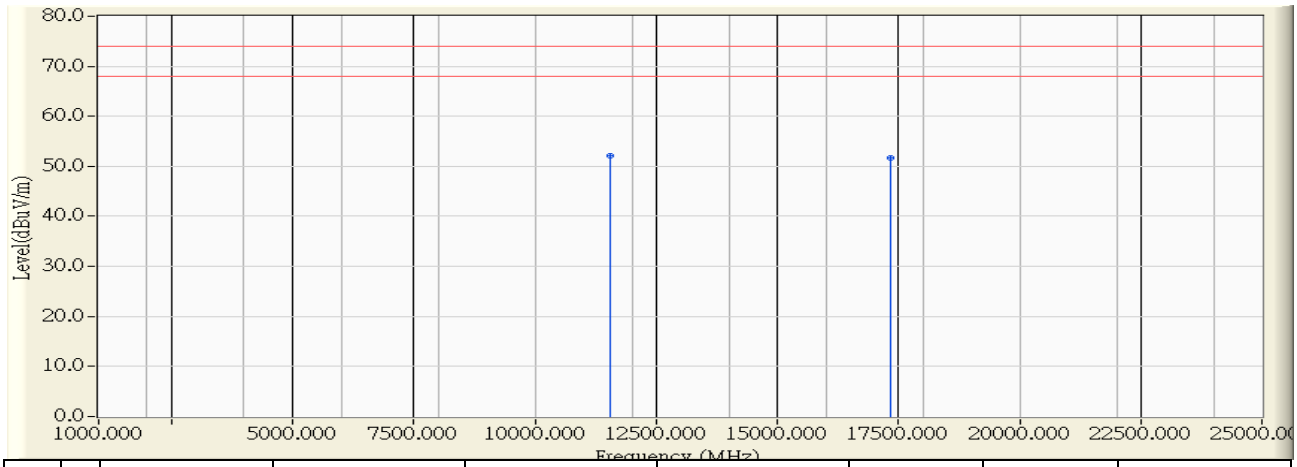


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11550.000	11.492	40.770	52.262	-21.738	74.000	PEAK
2		17325.000	15.836	34.620	50.456	-23.544	74.000	PEAK

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 : 2013/08/24 - 12:35**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-band Wireless-AC1200 Gigabit Router1	**Note : 802.11ac80M_5775MHz**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11550.000	11.492	40.660	52.152	-21.848	74.000	PEAK
2		17325.000	15.836	35.840	51.676	-22.324	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.

5. RF antenna conducted test

5.1. Test Equipment

The following test equipments are used during the test:

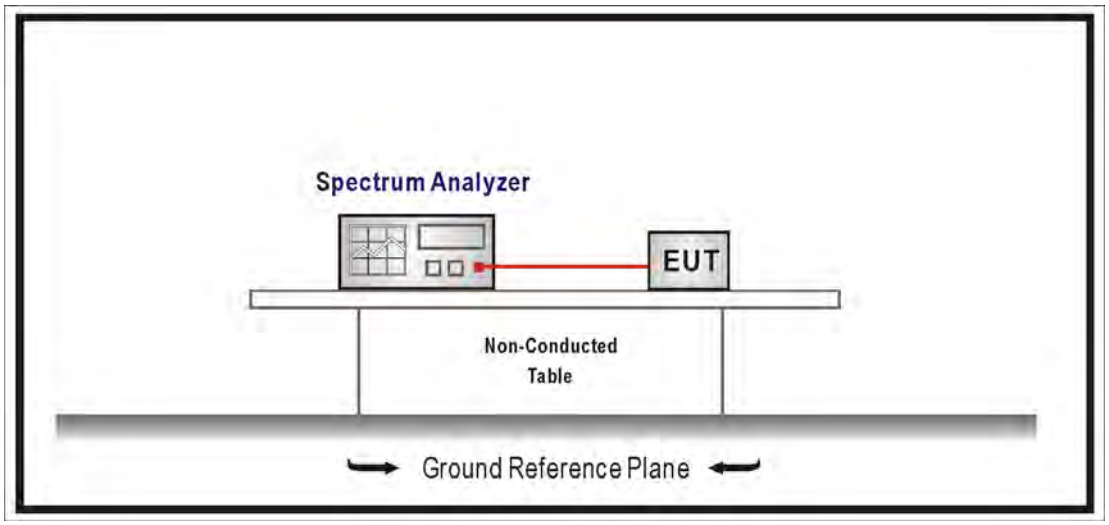
RF antenna conducted test / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2014/08/05

Note: 1. 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 and tested according to DTS test procedure of KDB558074 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: 2013

5.6. Uncertainty

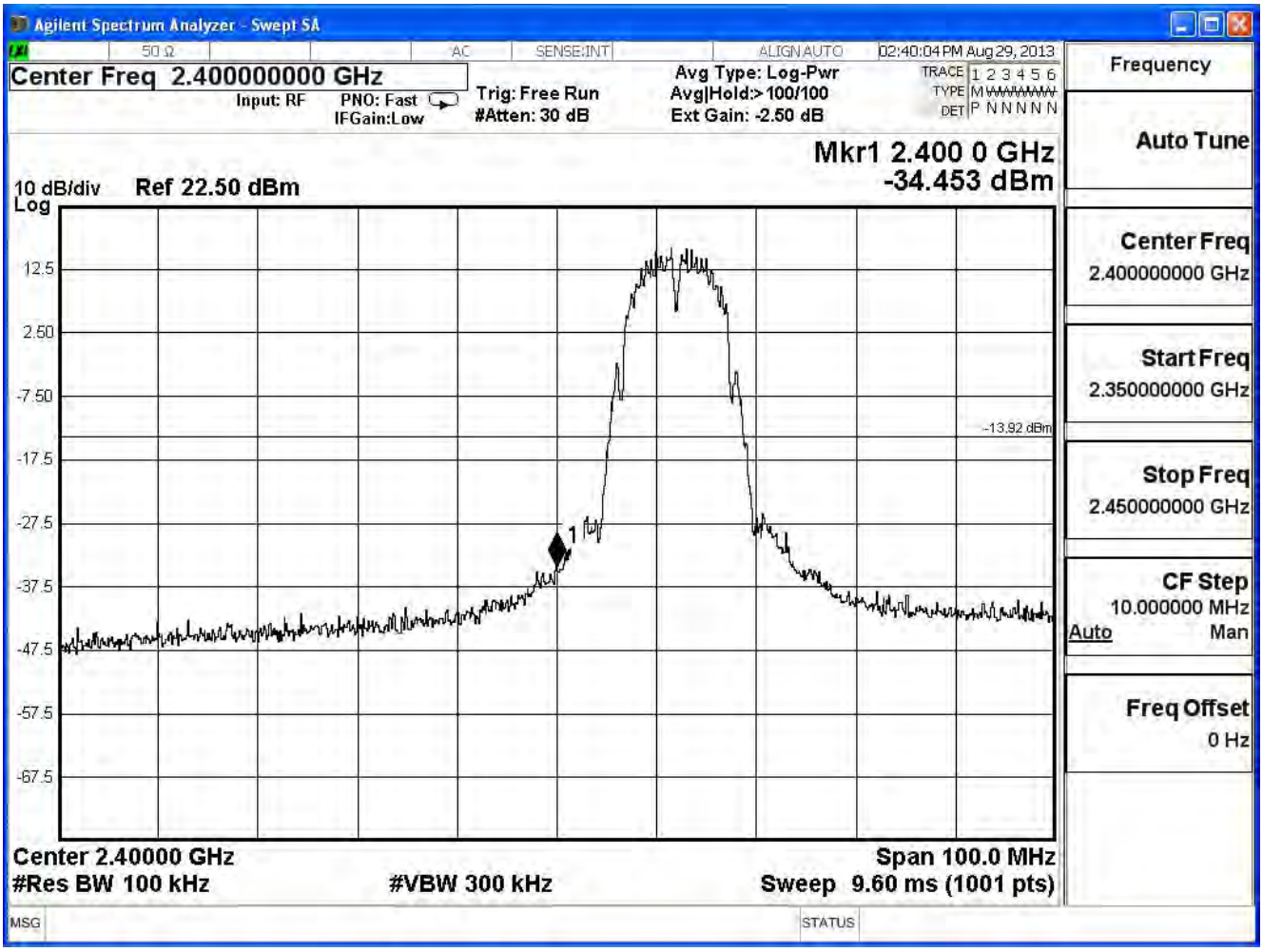
Conducted is defined as ± 1.27dB

5.7. Test Result

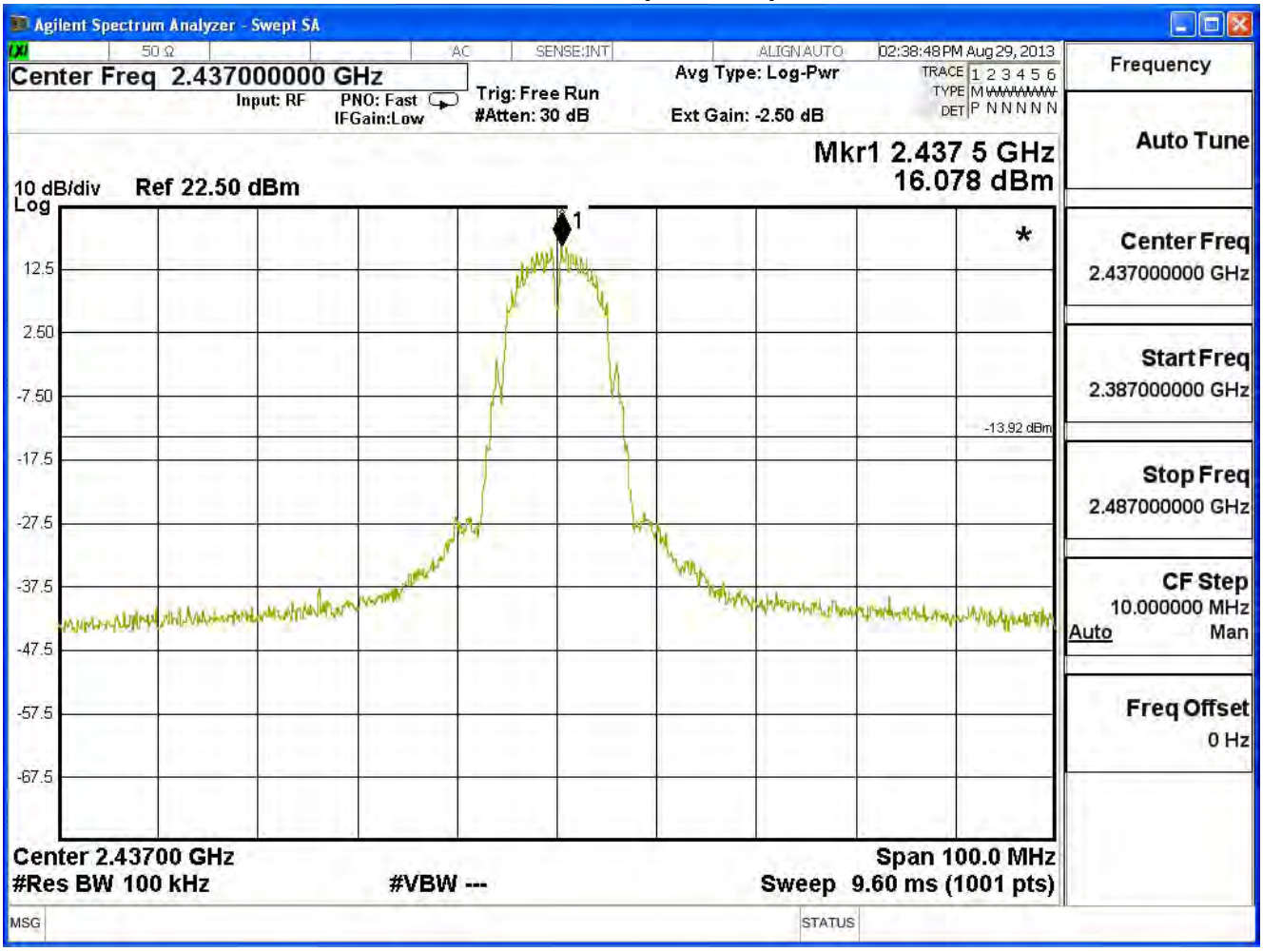
Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1:Transmit (CDD mode)		
Date of Test	2013/08/29	Test Site	SR7

IEEE 802.11b, Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	50.53	≧30	Pass
11	2462	58.38	≧30	Pass

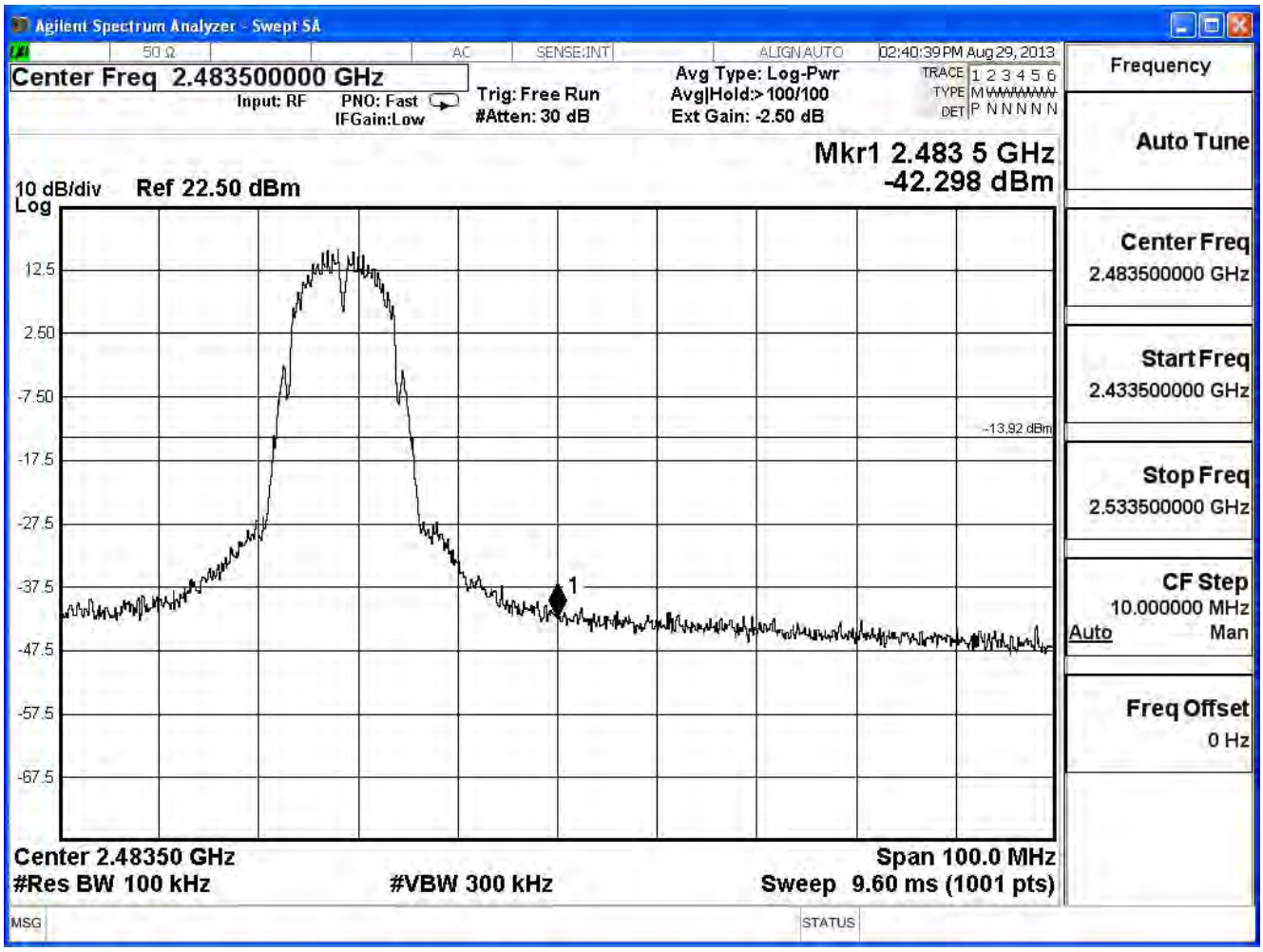
Channel 01 (2412MHz)



Channel 06 (2437MHz)



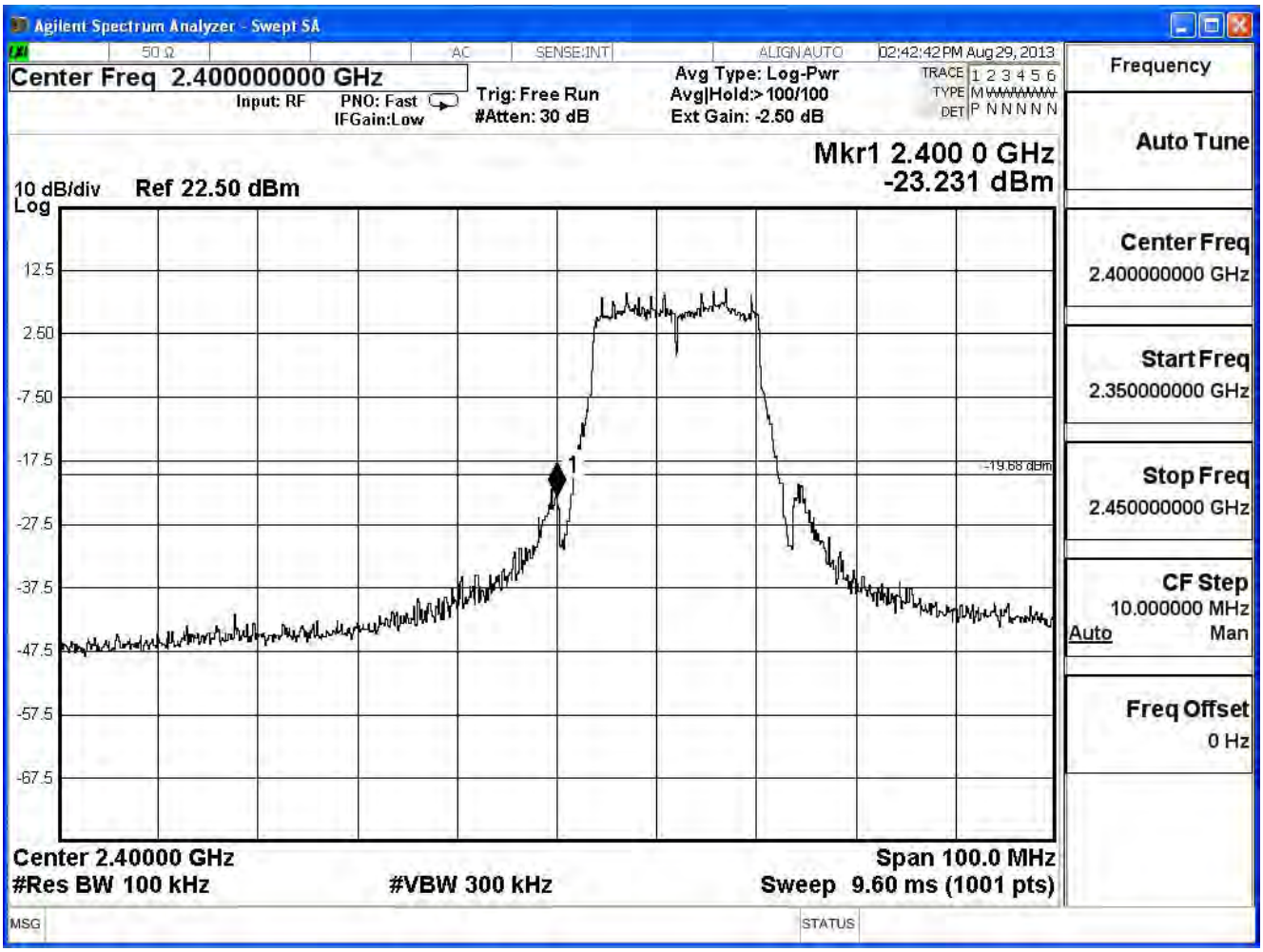
Channel 11 (2462MHz)



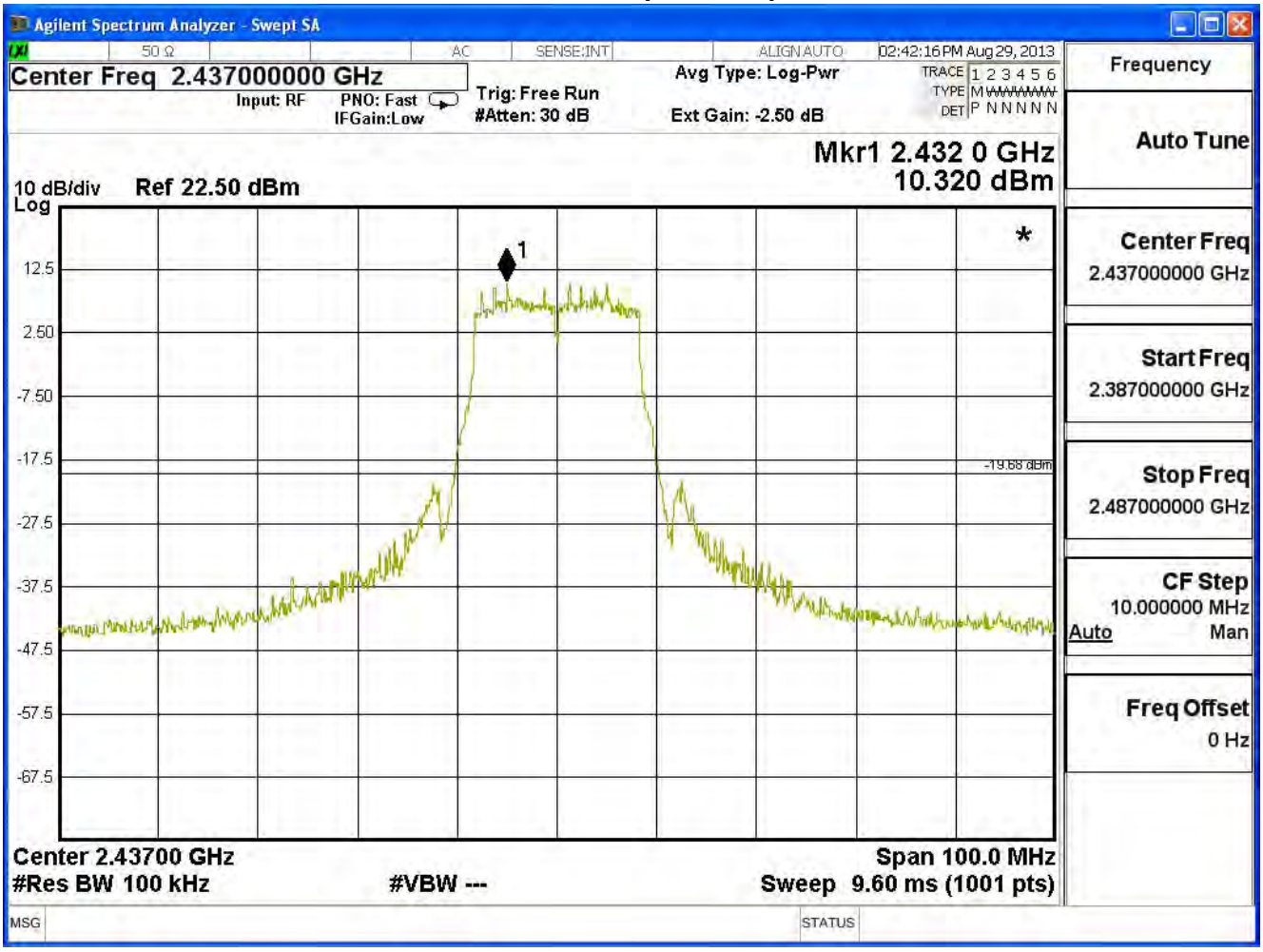
Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1:Transmit (CDD mode)		
Date of Test	2013/08/29	Test Site	SR7

IEEE 802.11g(ANT 0), Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	33.55	≧30	Pass
11	2462	50.88	≧30	Pass

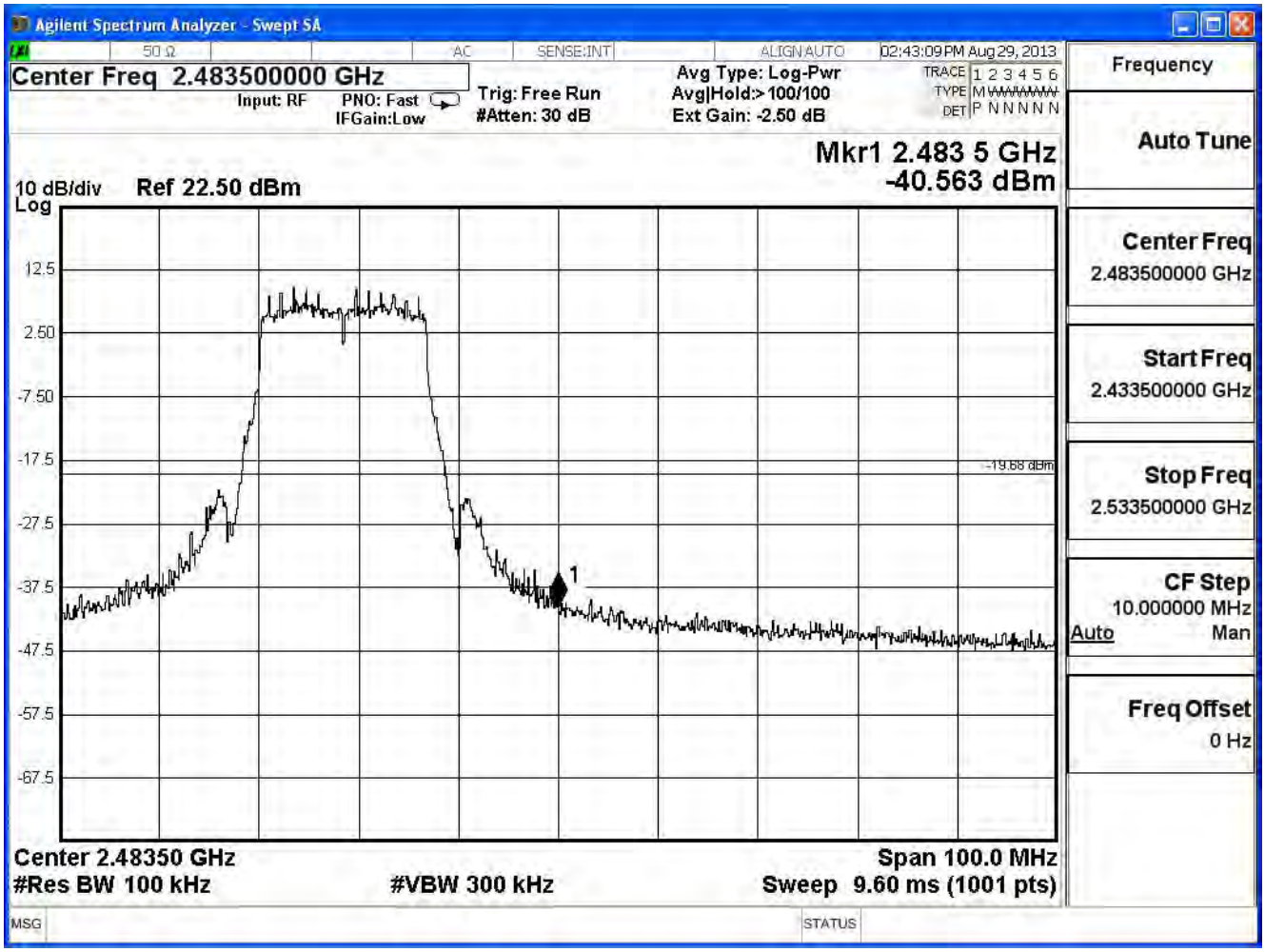
Channel 01 (2412MHz)



Channel 06 (2437MHz)



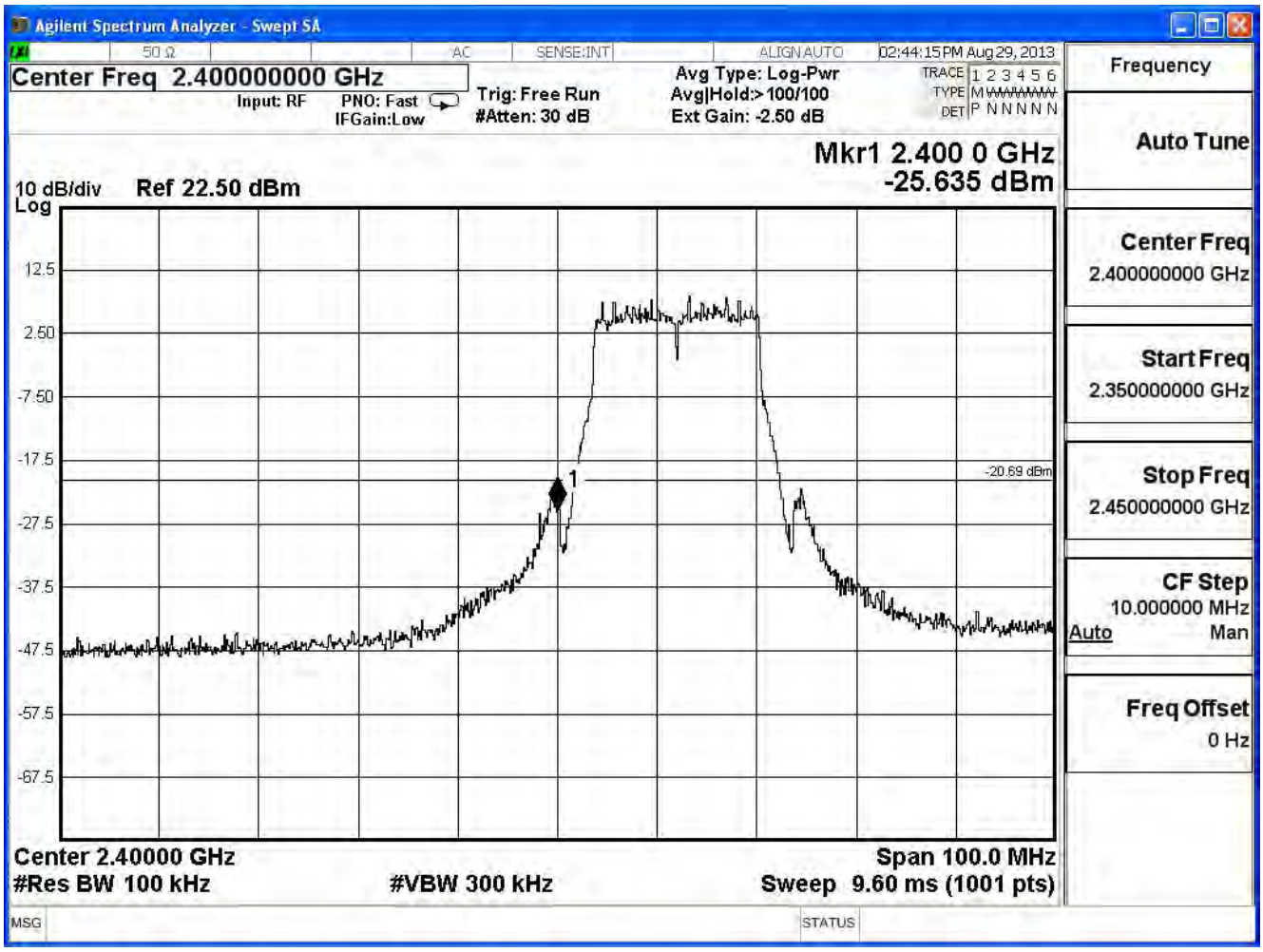
Channel 11 (2462MHz)



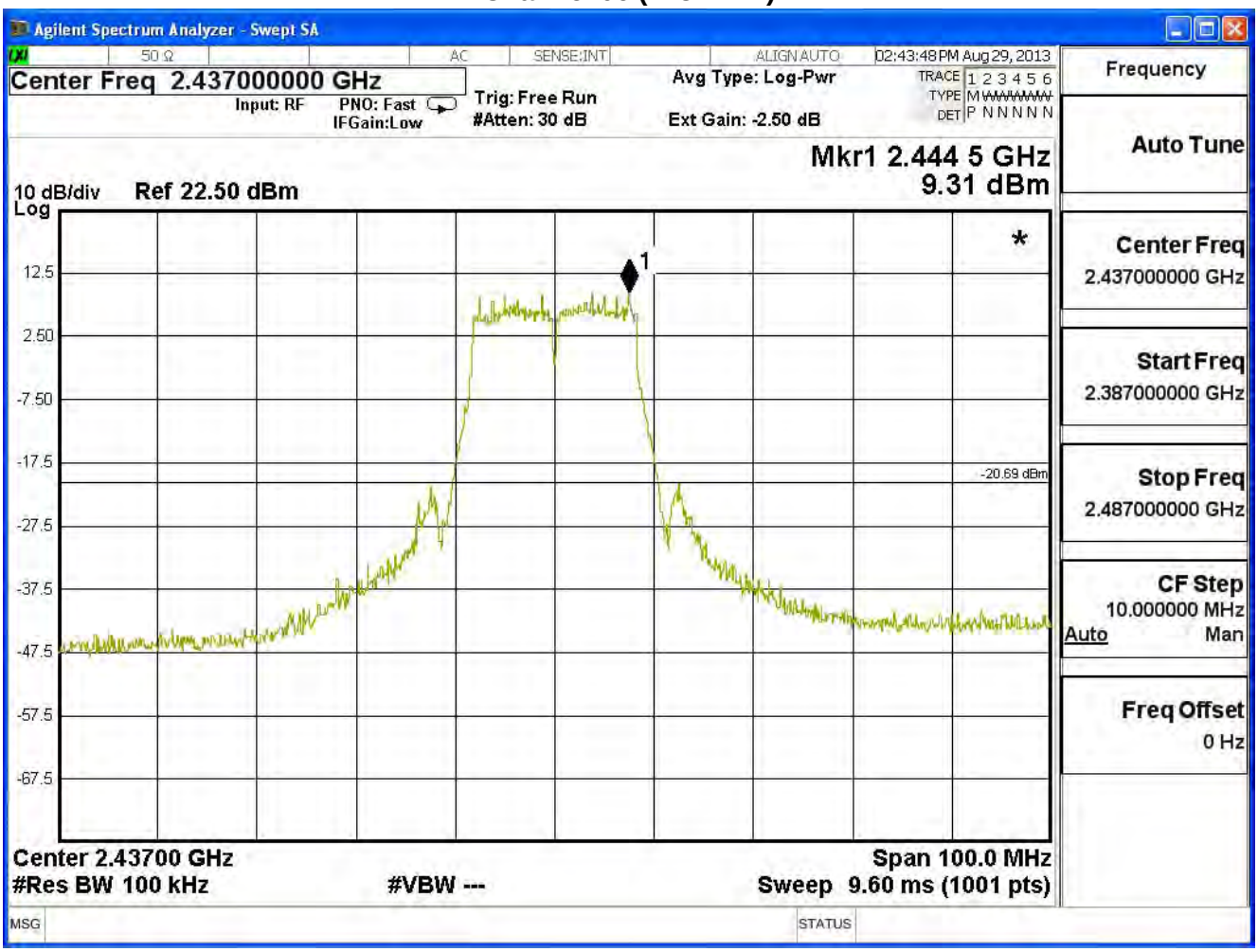
Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1:Transmit (CDD mode)		
Date of Test	2013/08/29	Test Site	SR7

IEEE 802.11g(ANT 1), Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	34.95	≧30	Pass
11	2462	47.49	≧30	Pass

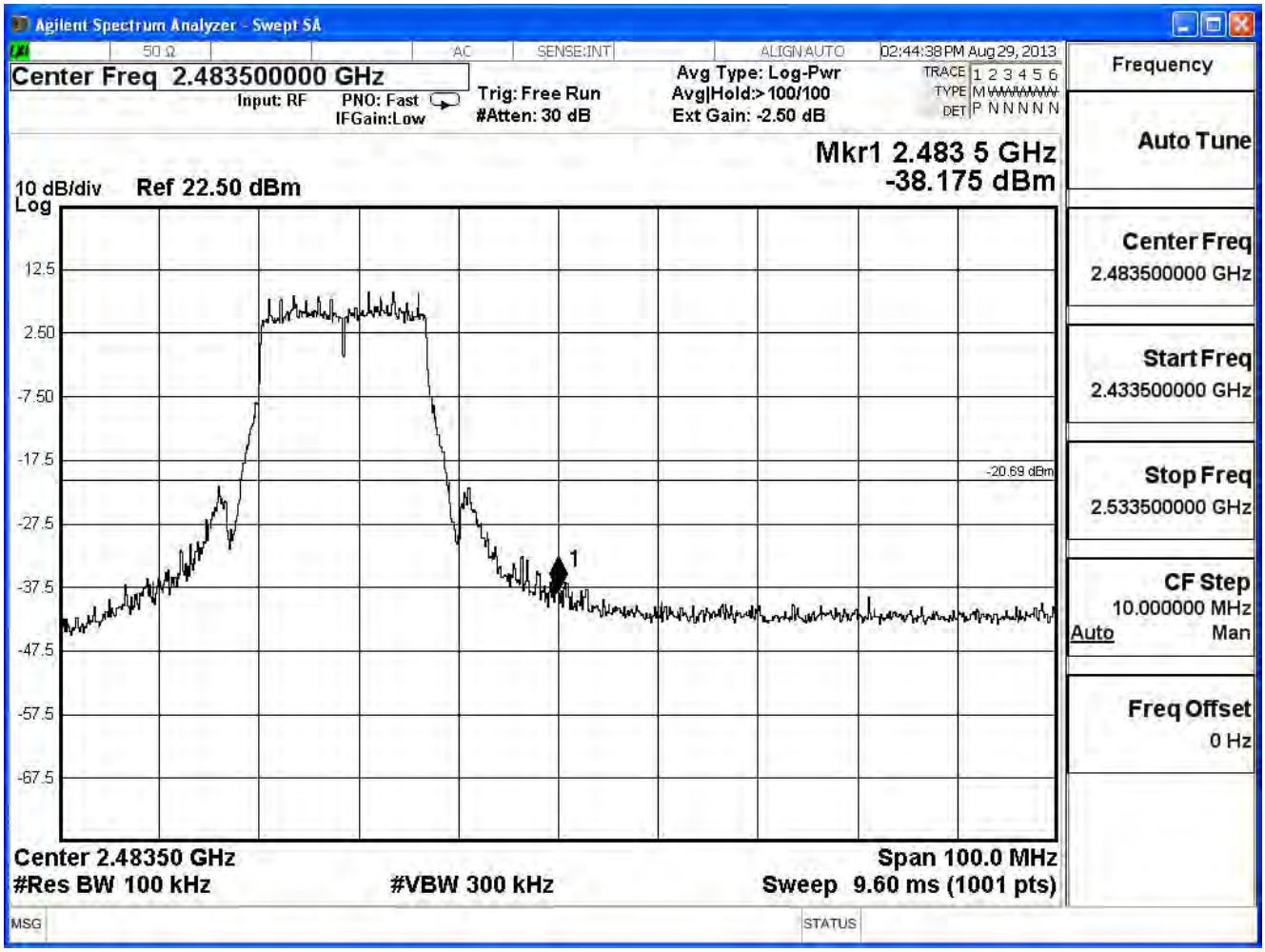
Channel 01 (2412MHz)



Channel 06 (2437MHz)



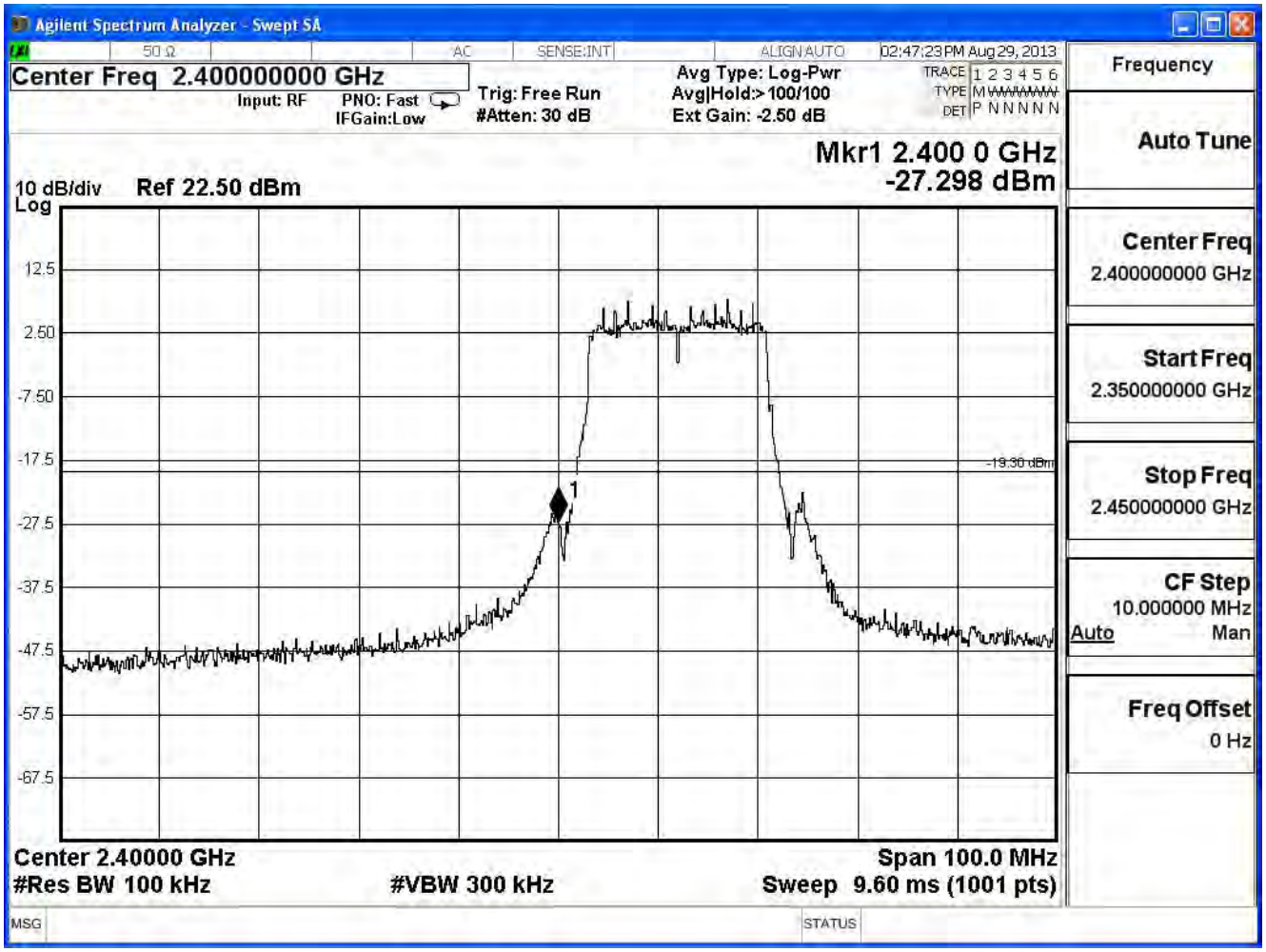
Channel 11 (2462MHz)



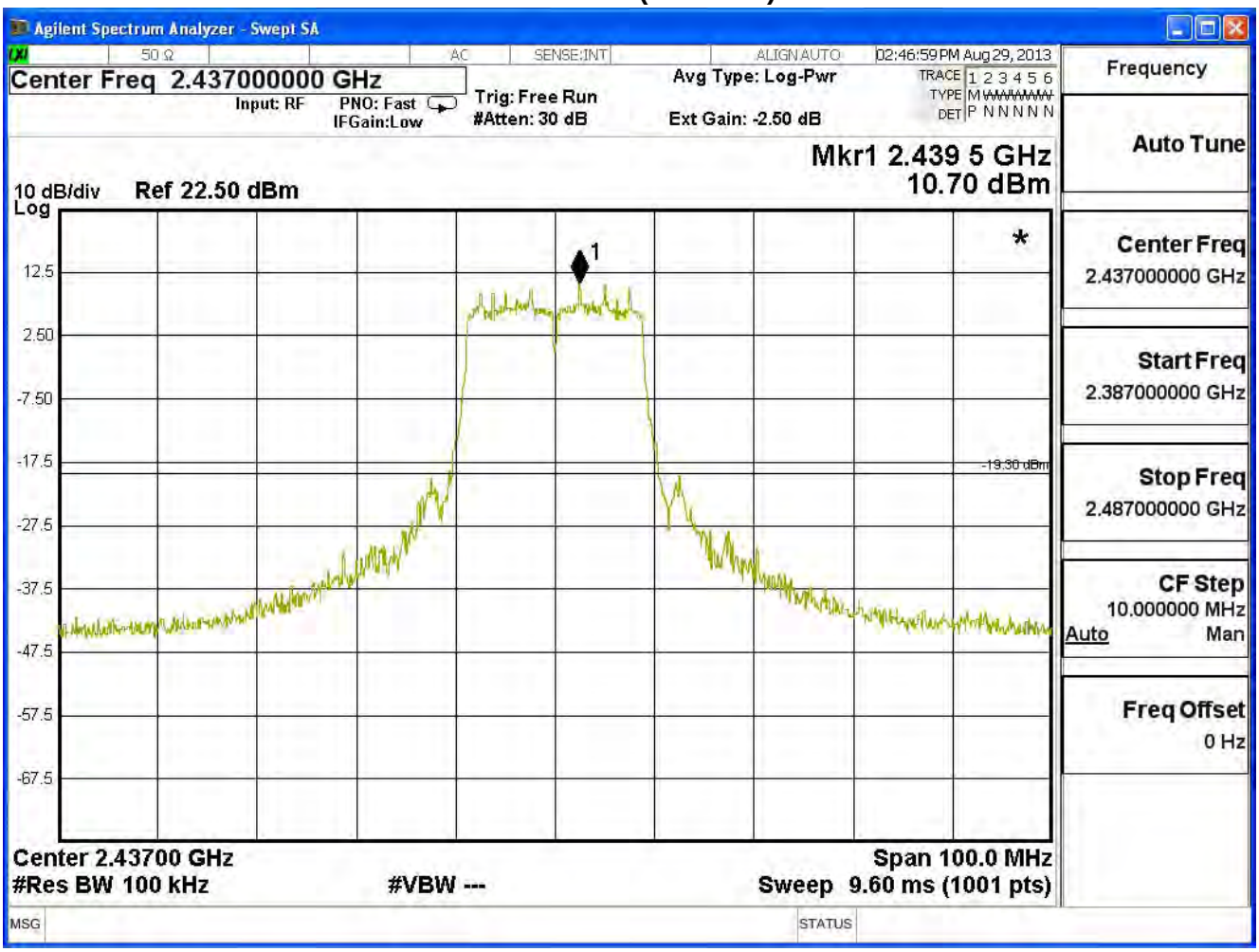
Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1:Transmit (CDD mode)		
Date of Test	2013/08/29	Test Site	SR7

IEEE 802.11n (20MHz), (ANT 0) , Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	38.00	≧30	Pass
11	2462	56.25	≧30	Pass

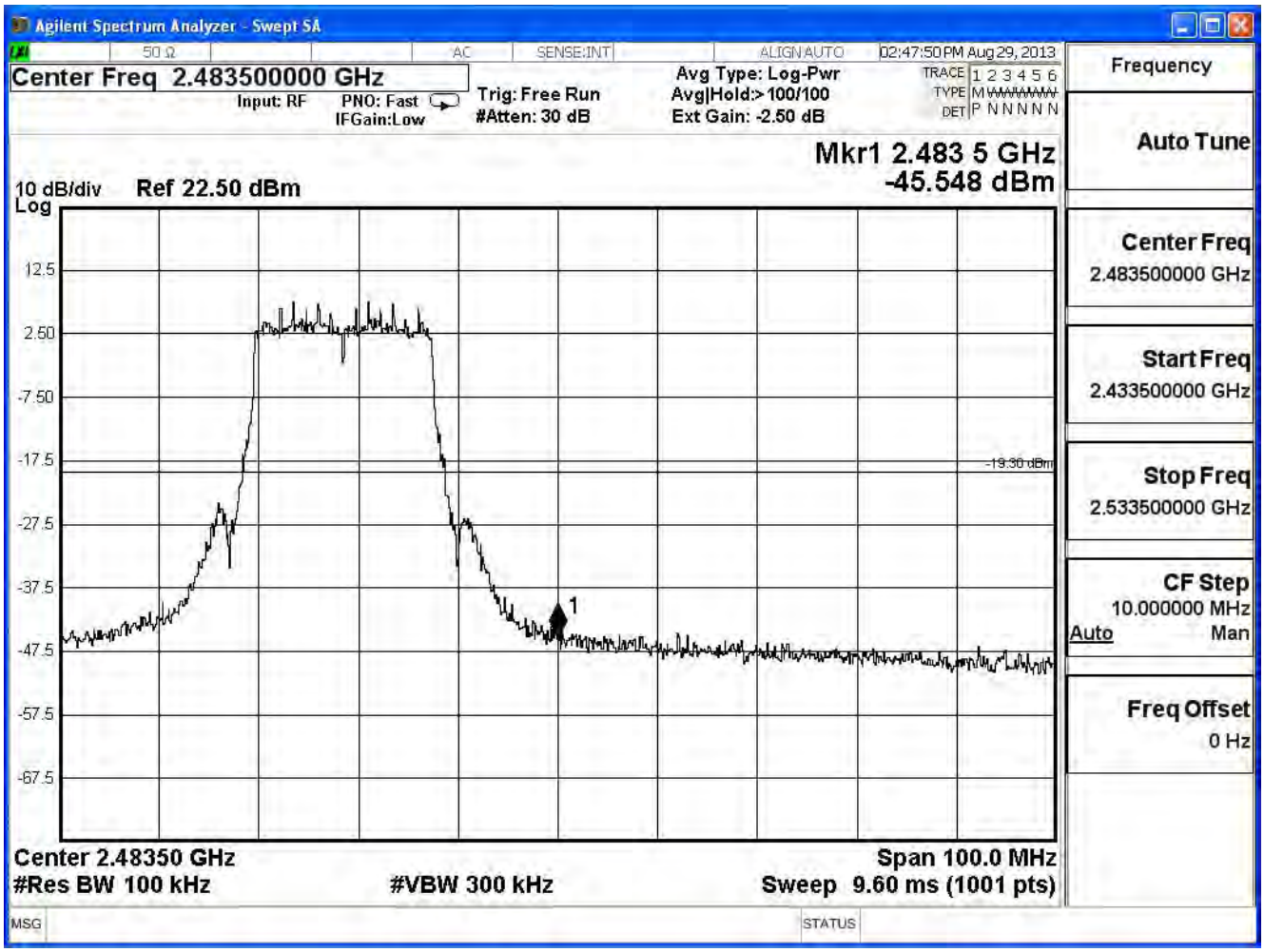
Channel 1 (2412MHz)



Channel 06 (2437MHz)



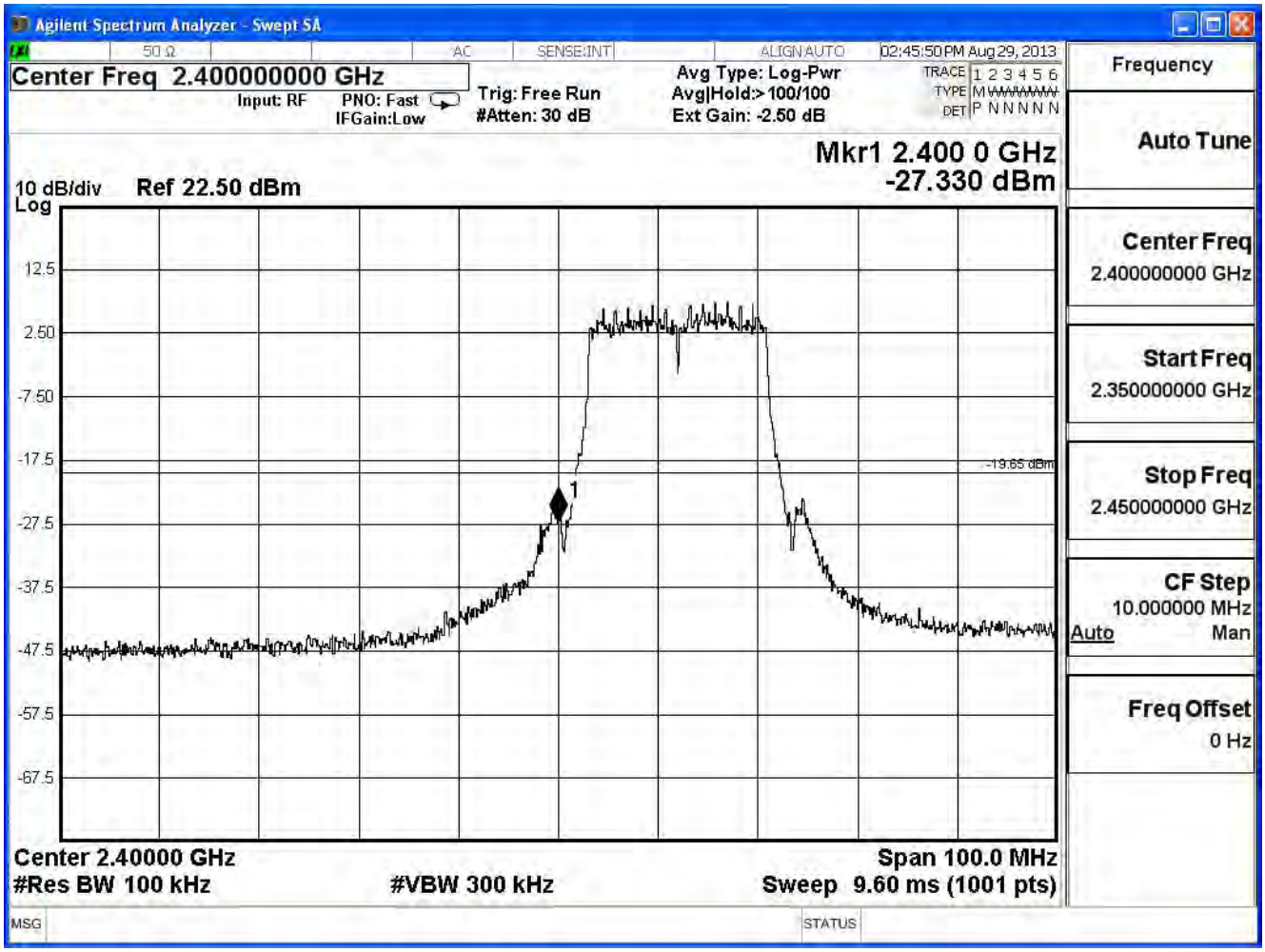
Channel 11 (2462MHz)



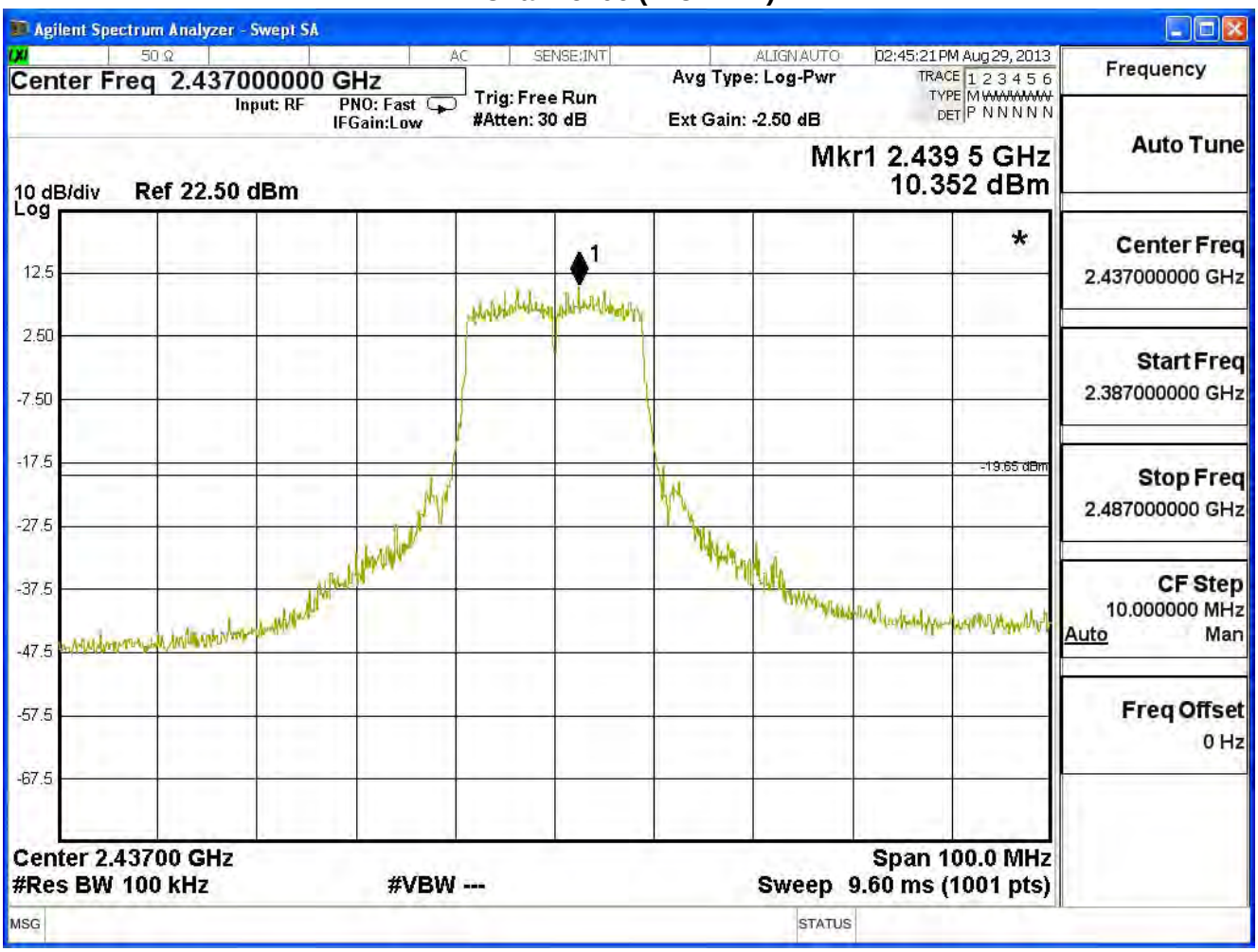
Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1:Transmit (CDD mode)		
Date of Test	2013/08/29	Test Site	SR7

IEEE 802.11n (20MHz), (ANT 1) , Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	37.68	≧30	Pass
11	2462	52.63	≧30	Pass

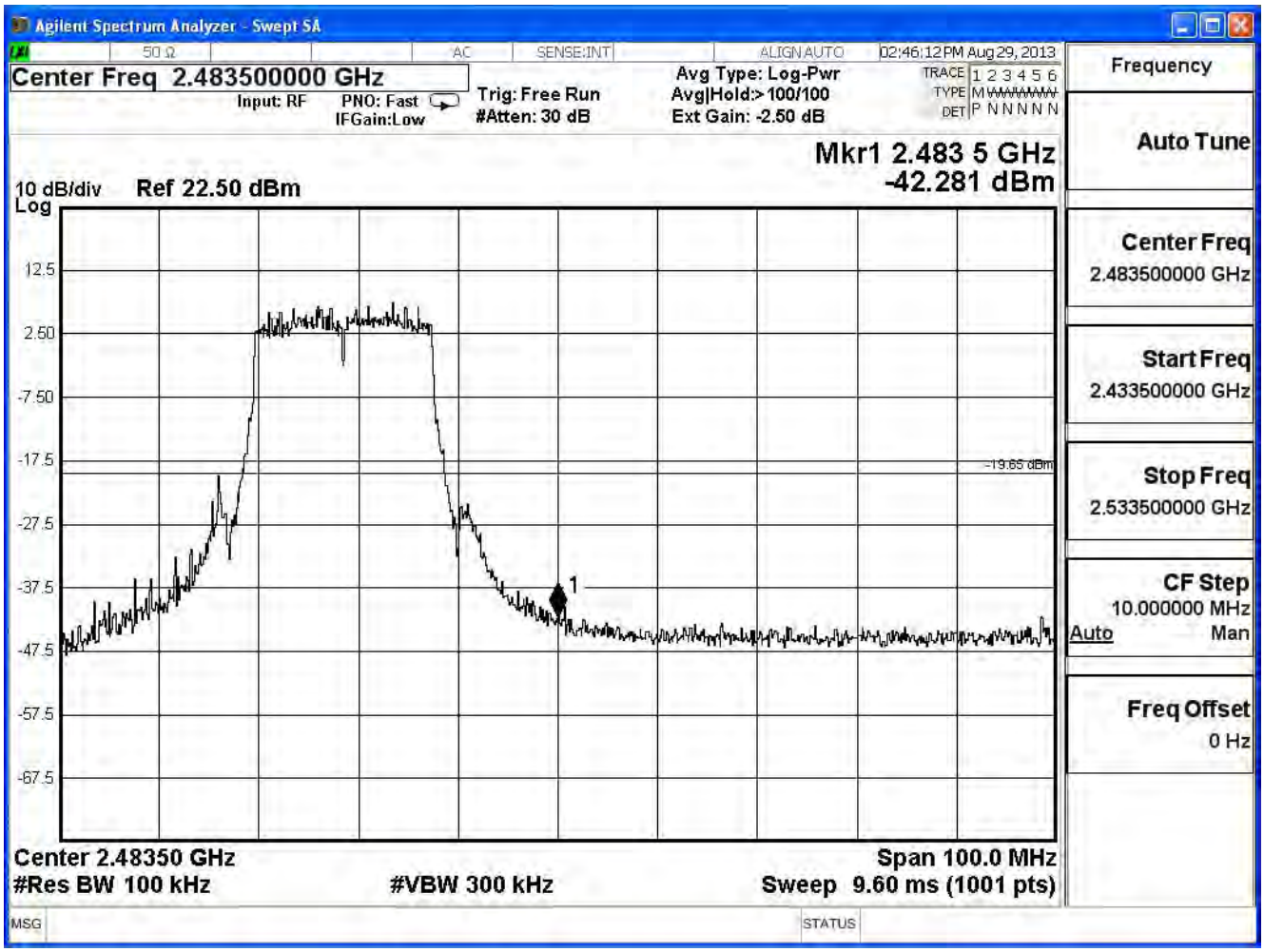
Channel 1 (2412MHz)



Channel 06 (2437MHz)



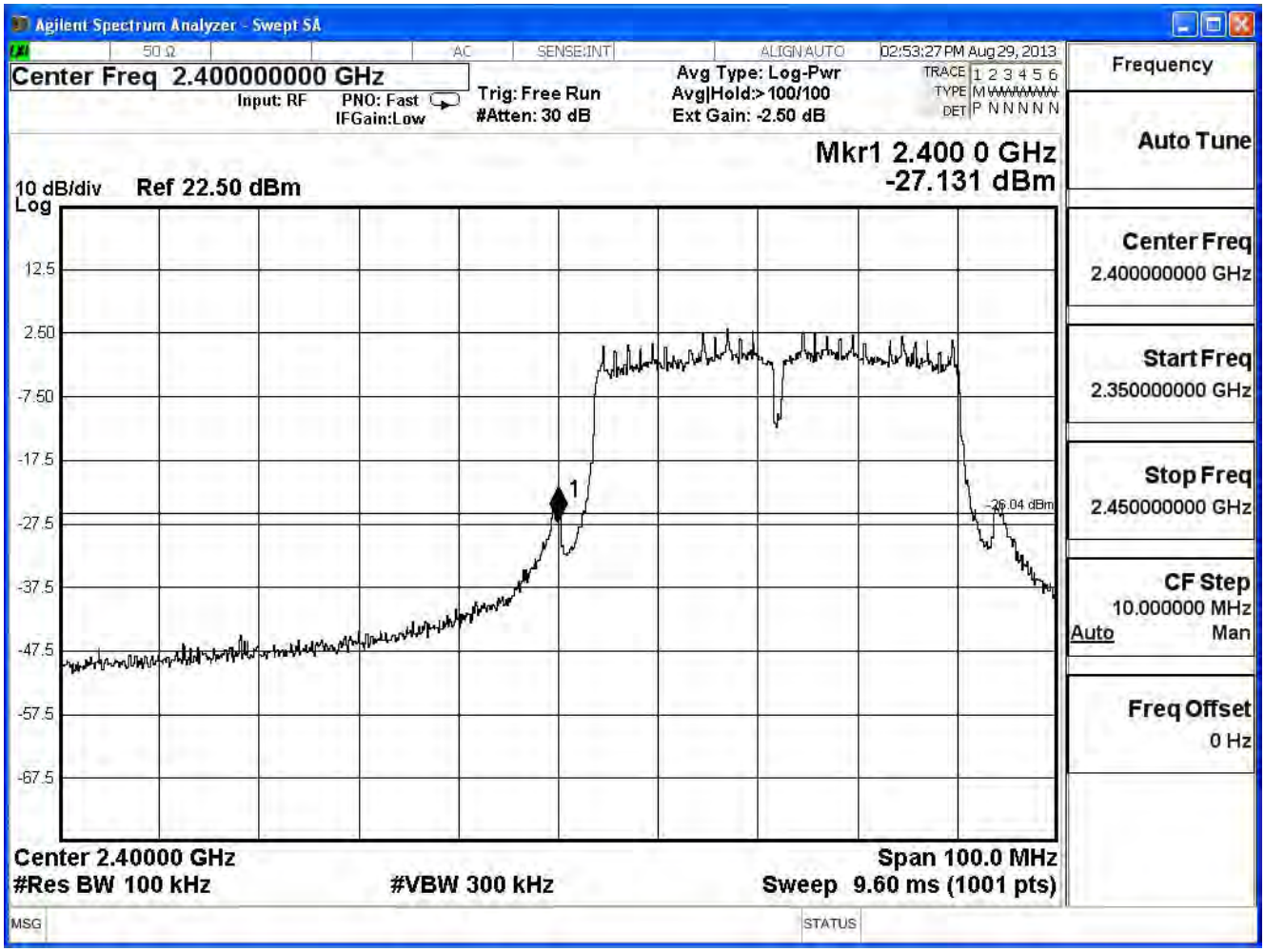
Channel 11 (2462MHz)



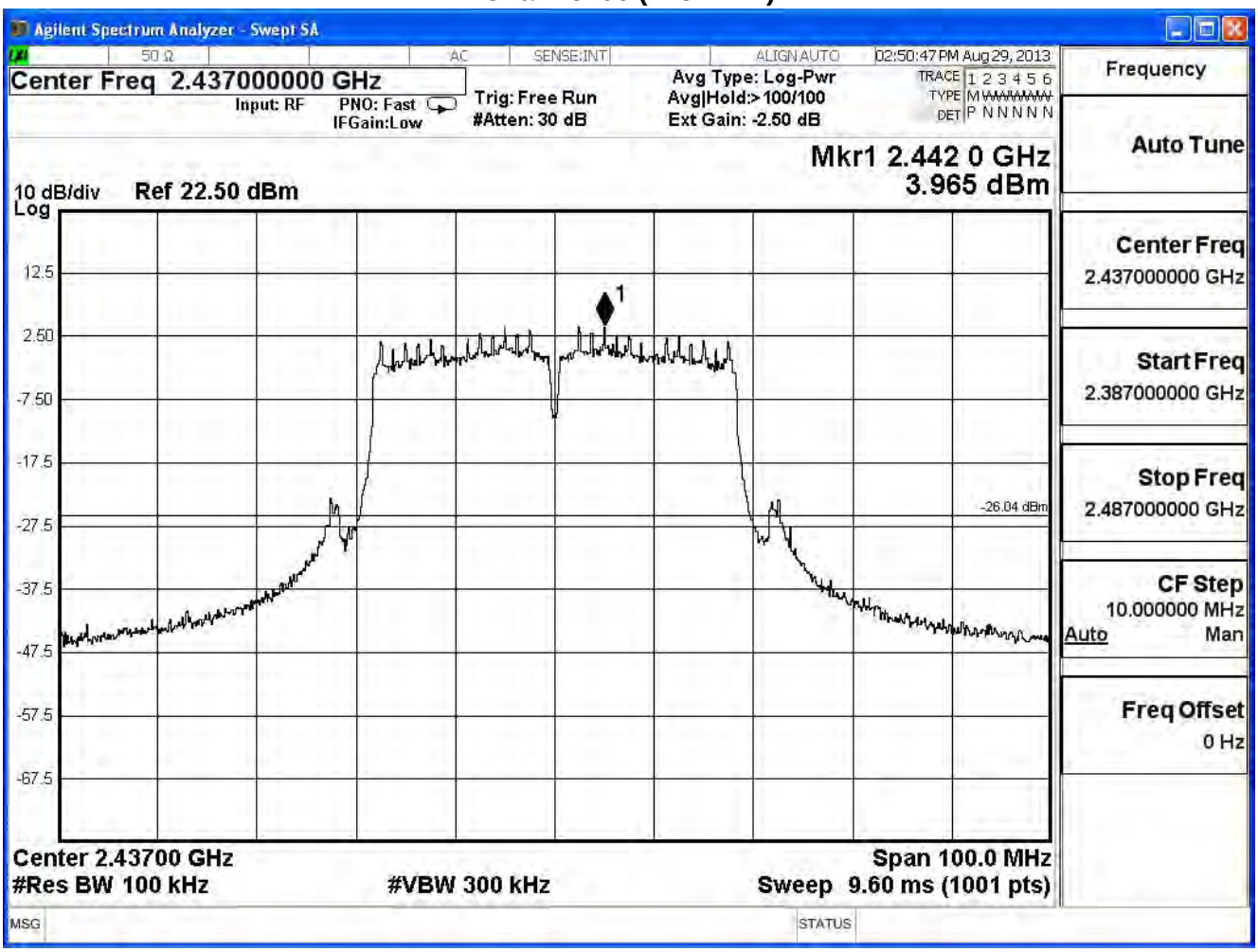
Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1:Transmit (CDD mode)		
Date of Test	2013/08/29	Test Site	SR7

IEEE 802.11n (40MHz), (ANT 0) , Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	31.09	≧30	Pass
9	2452	50.74	≧30	Pass

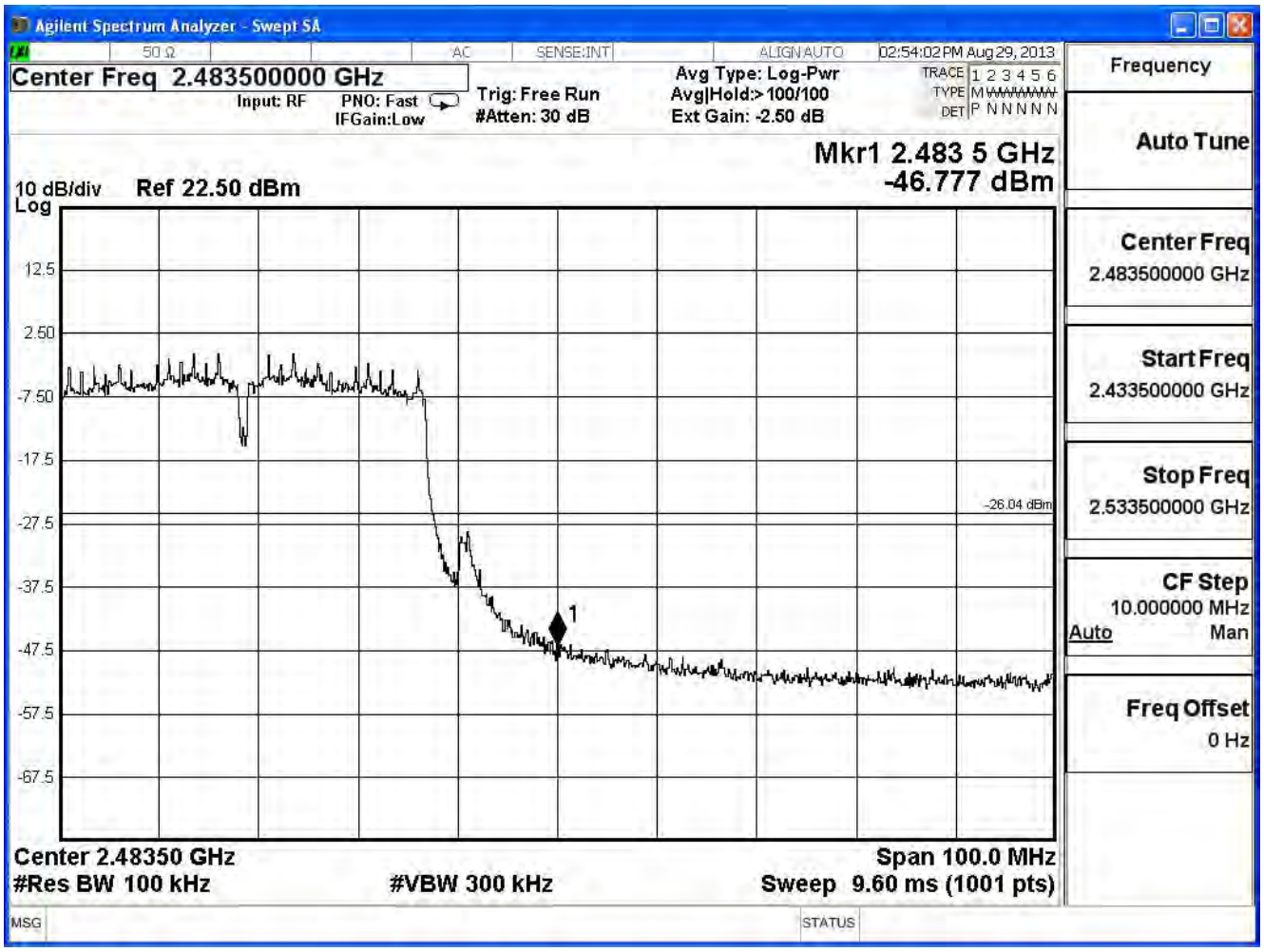
Channel 3 (2422MHz)



Channel 06 (2437MHz)



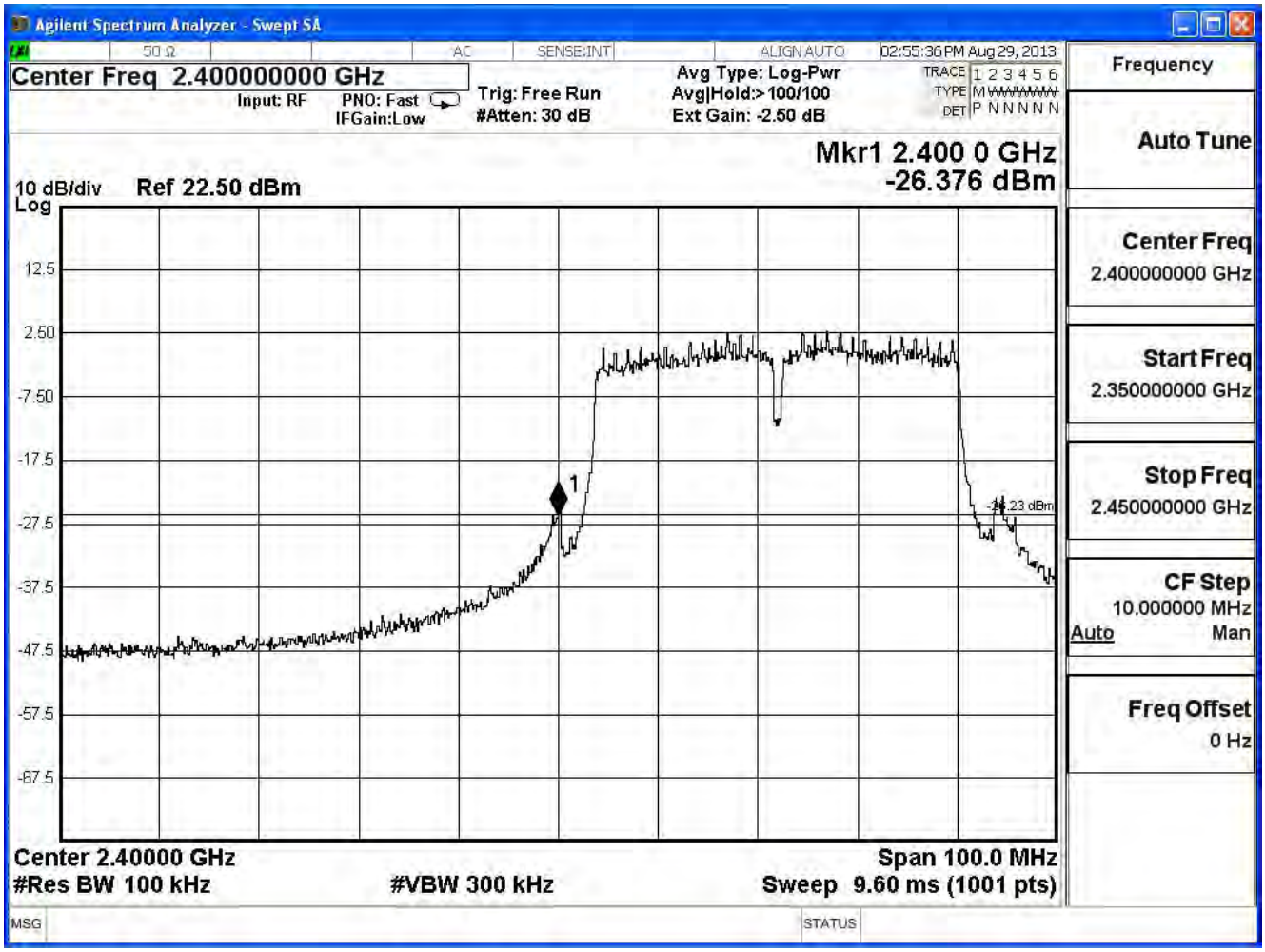
Channel 9 (2452MHz)



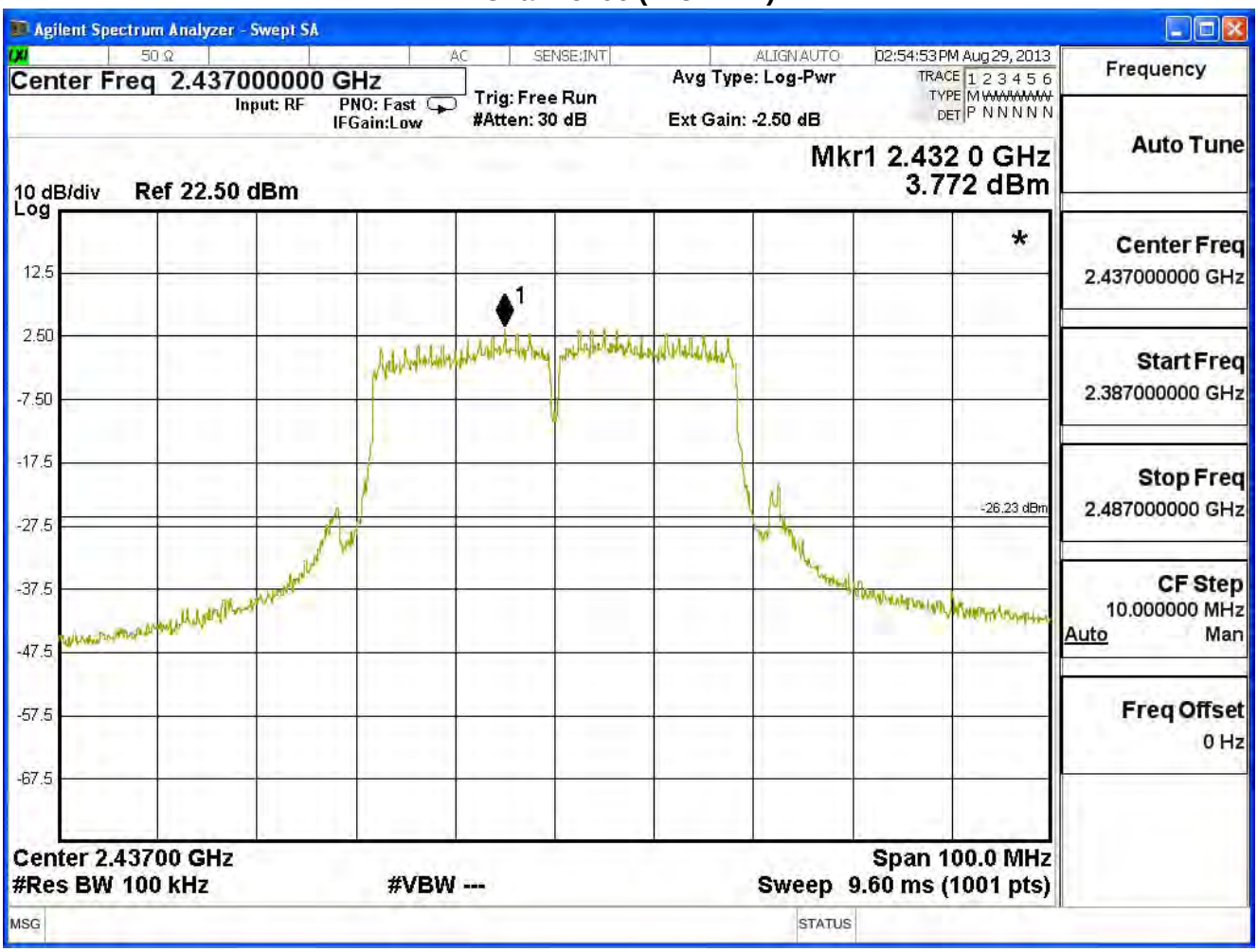
Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1:Transmit (CDD mode)		
Date of Test	2013/08/29	Test Site	SR7

IEEE 802.11n (40MHz), (ANT 1), Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	30.15	≧30	Pass
9	2452	45.55	≧30	Pass

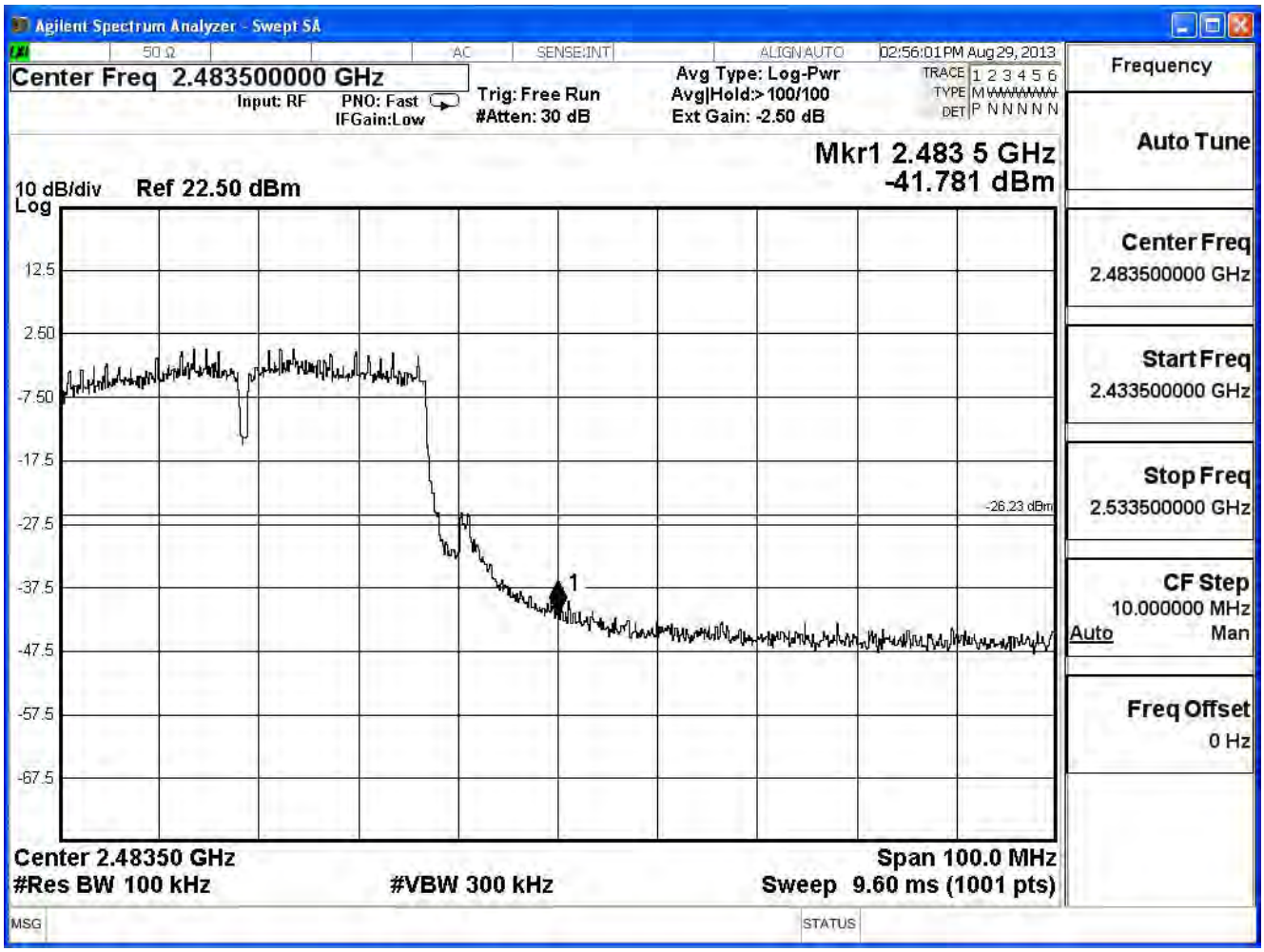
Channel 3 (2422MHz)



Channel 06 (2437MHz)



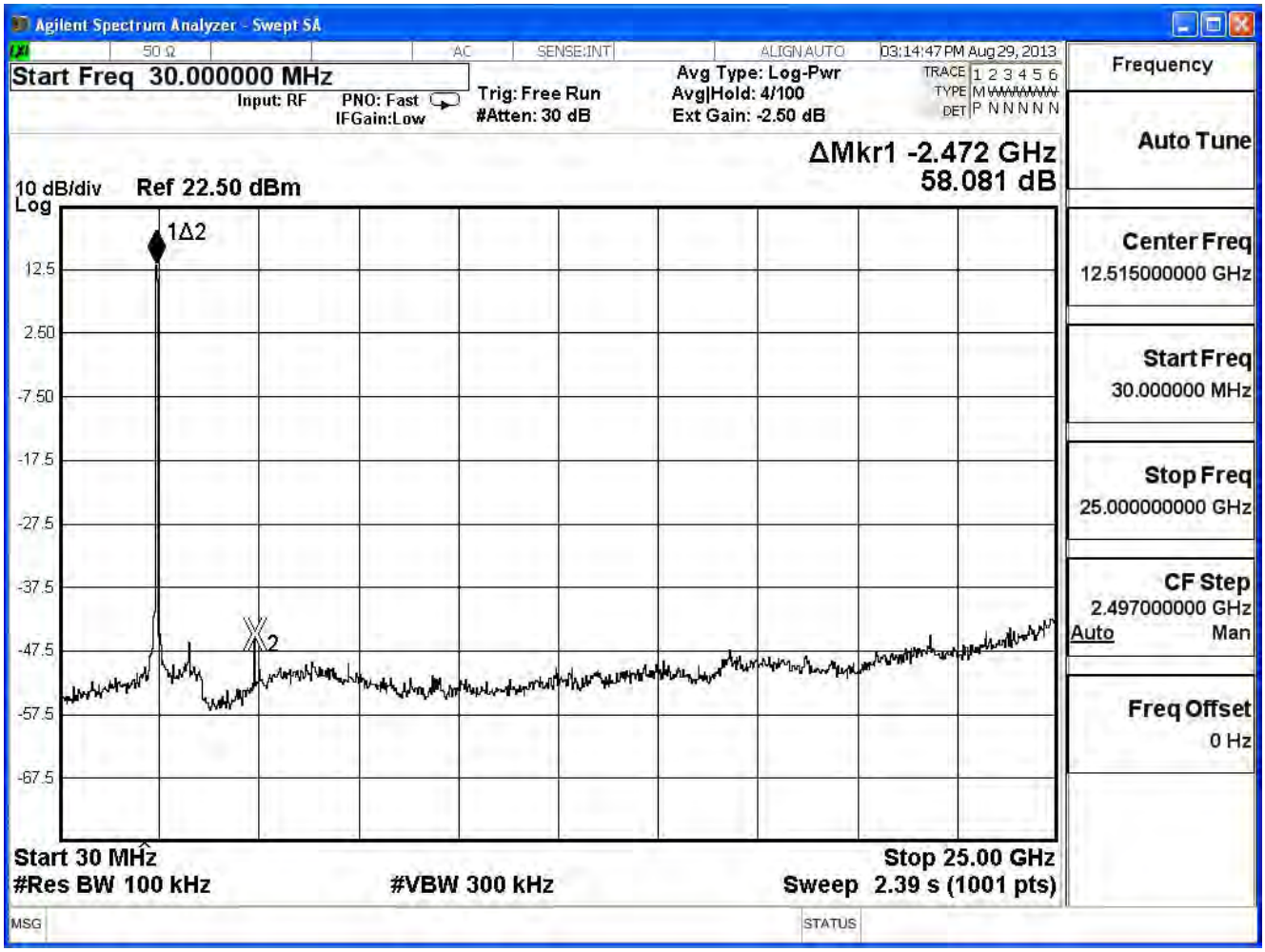
Channel 9 (2452MHz)



Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1:Transmit (CDD mode)		
Date of Test	2013/08/29	Test Site	SR7

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

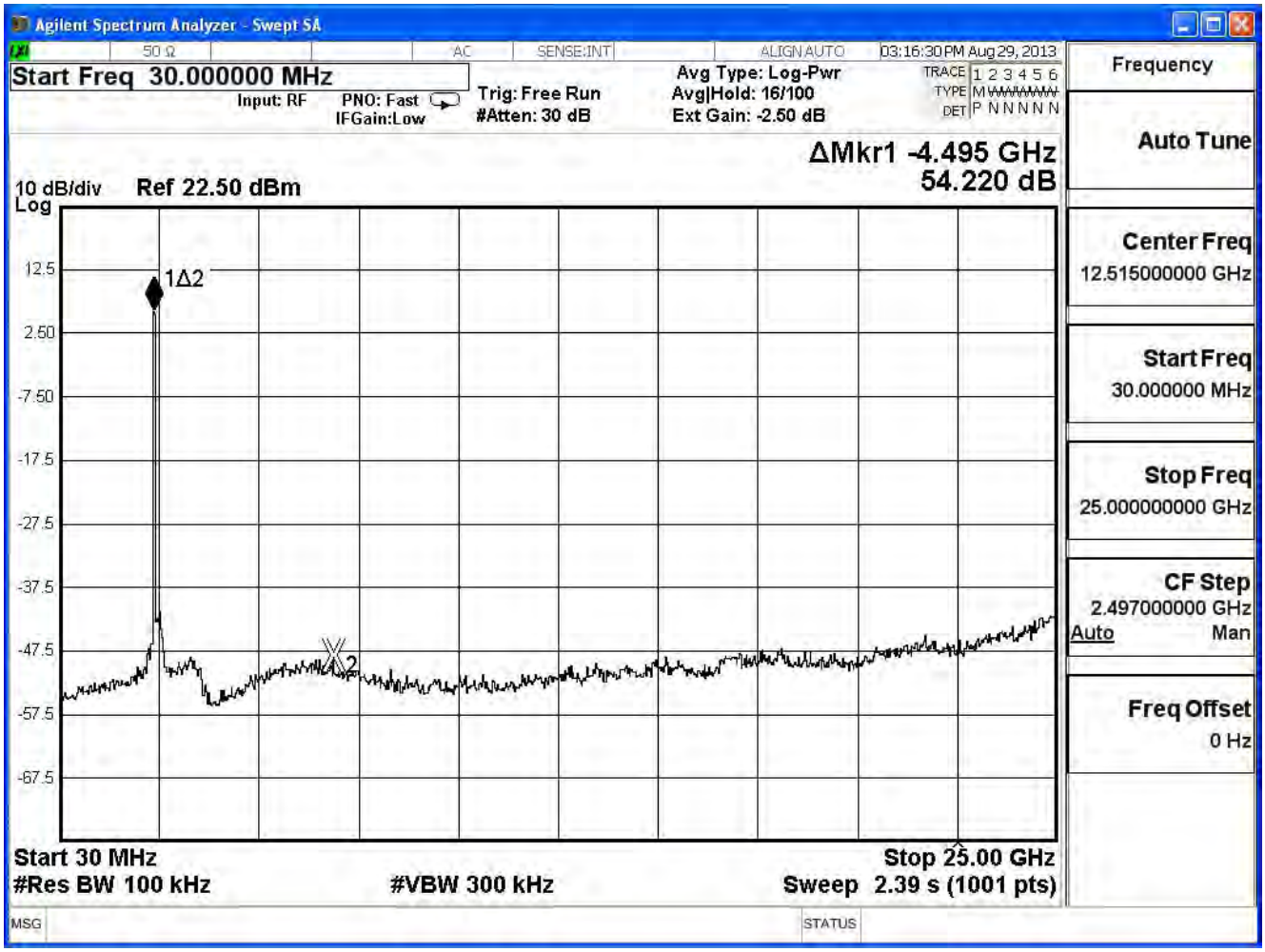
2462MHz (30MHz-25GHz) -802.11b



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

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

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



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

2412MHz (30MHz-25GHz)-802.11n(20MHz)-ANT 0

2462MHz (30MHz-25GHz) -802.11n(20MHz)-ANT 0

2412MHz (30MHz-25GHz)-802.11n(20MHz)-ANT 1

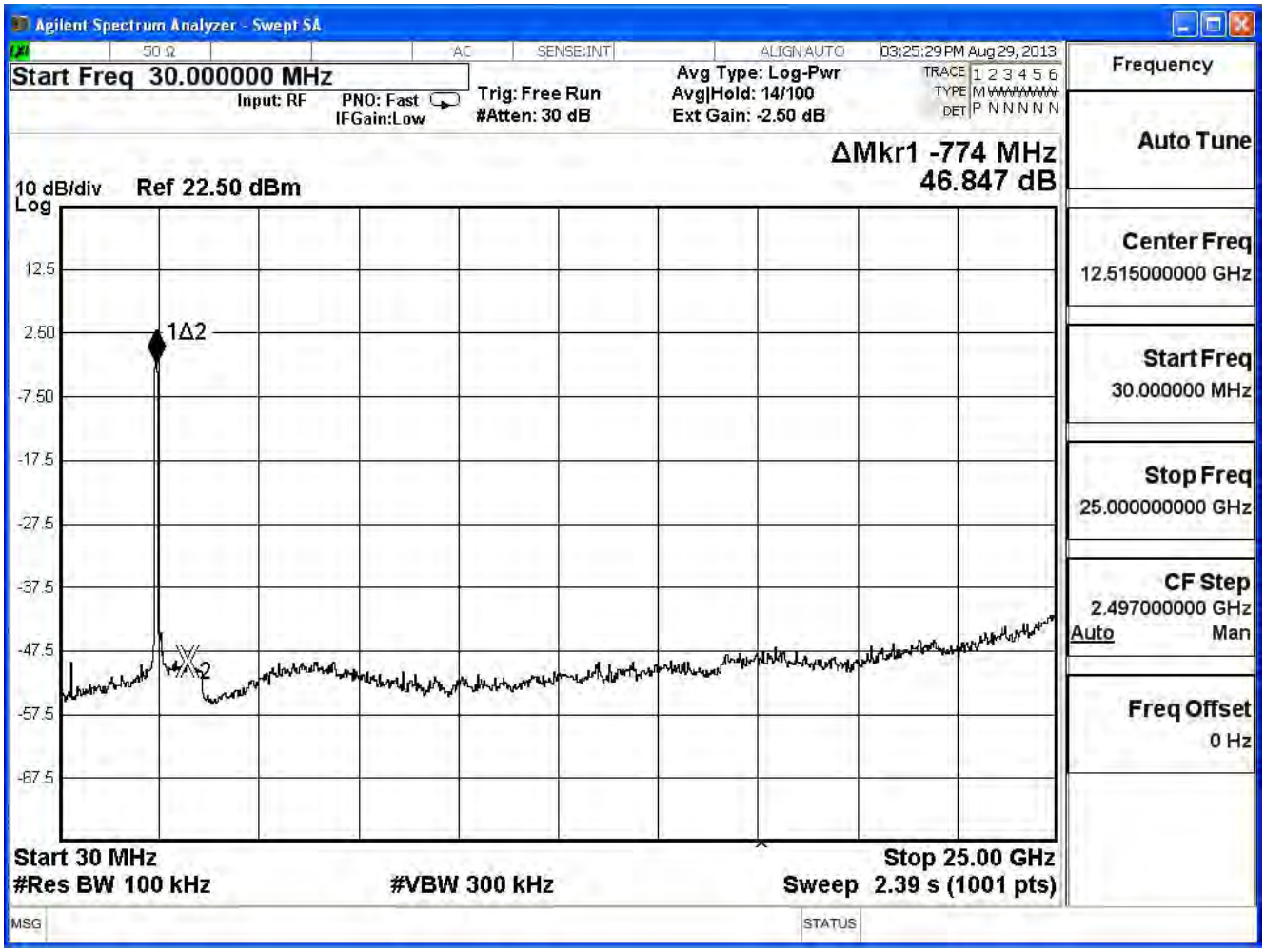
2462MHz (30MHz-25GHz) -802.11n(20MHz)-ANT 1

2422MHz (30MHz-25GHz)-802.11n(40MHz)-ANT 0

2452MHz (30MHz-25GHz) -802.11n(40MHz)-ANT 0

2422MHz (30MHz-25GHz)-802.11n(40MHz)-ANT 1

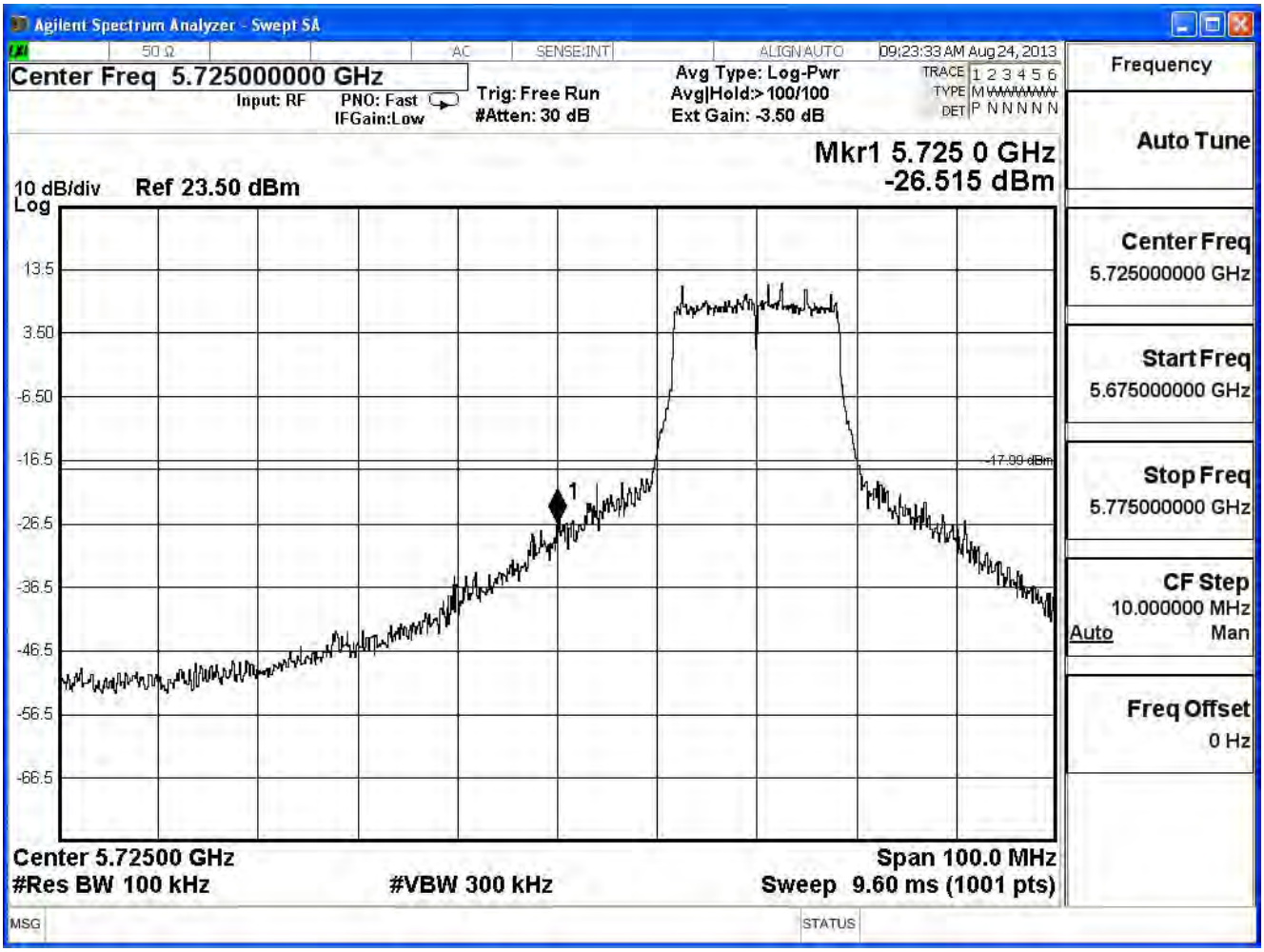
2452MHz (30MHz-25GHz) -802.11n(40MHz)-ANT 1



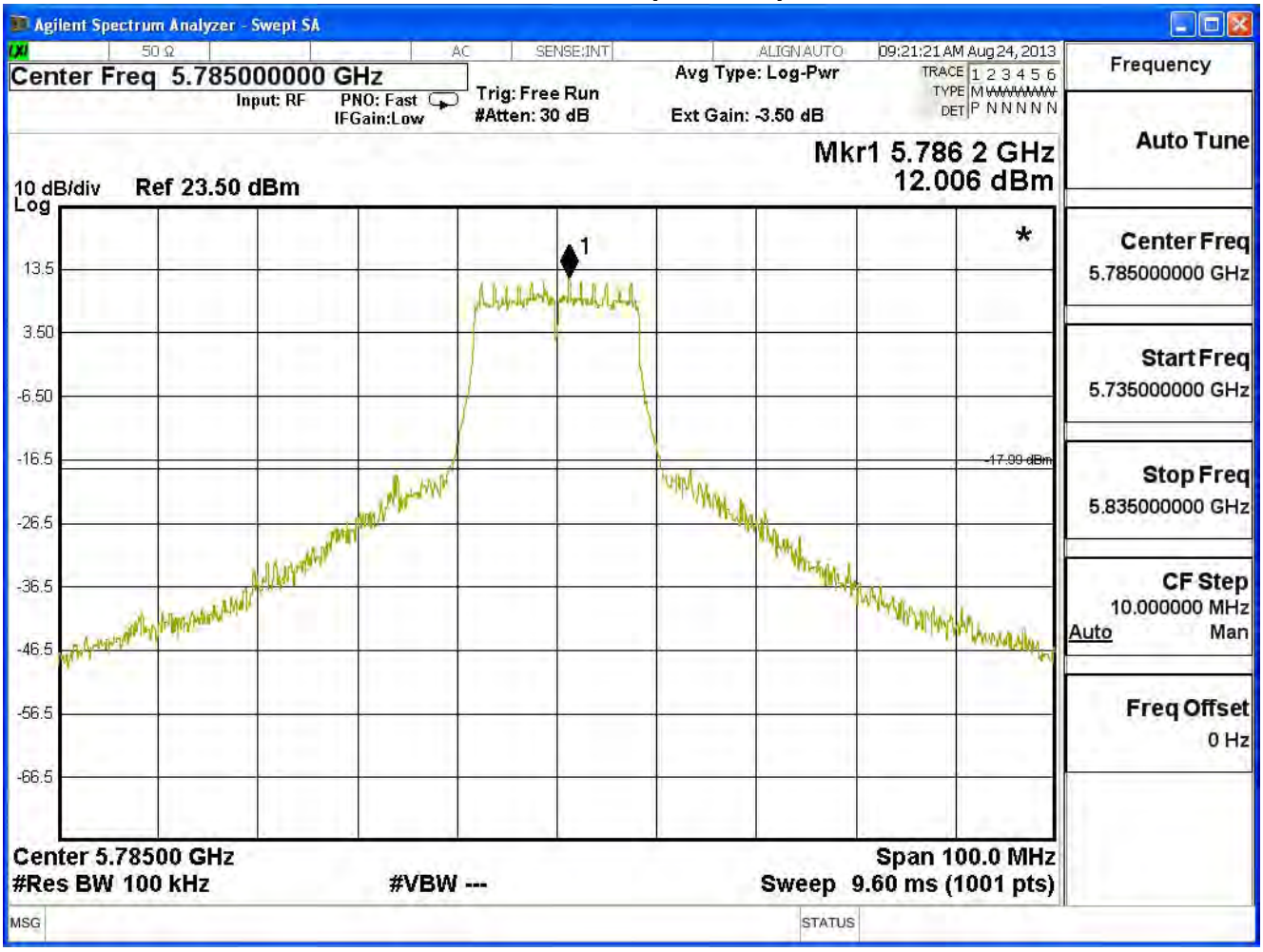
Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1:Transmit (CDD mode)		
Date of Test	2013/08/29	Test Site	SR7

IEEE 802.11a(ANT 0), Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
149	5745	38.52	≧30	Pass
165	5825	43.94	≧30	Pass

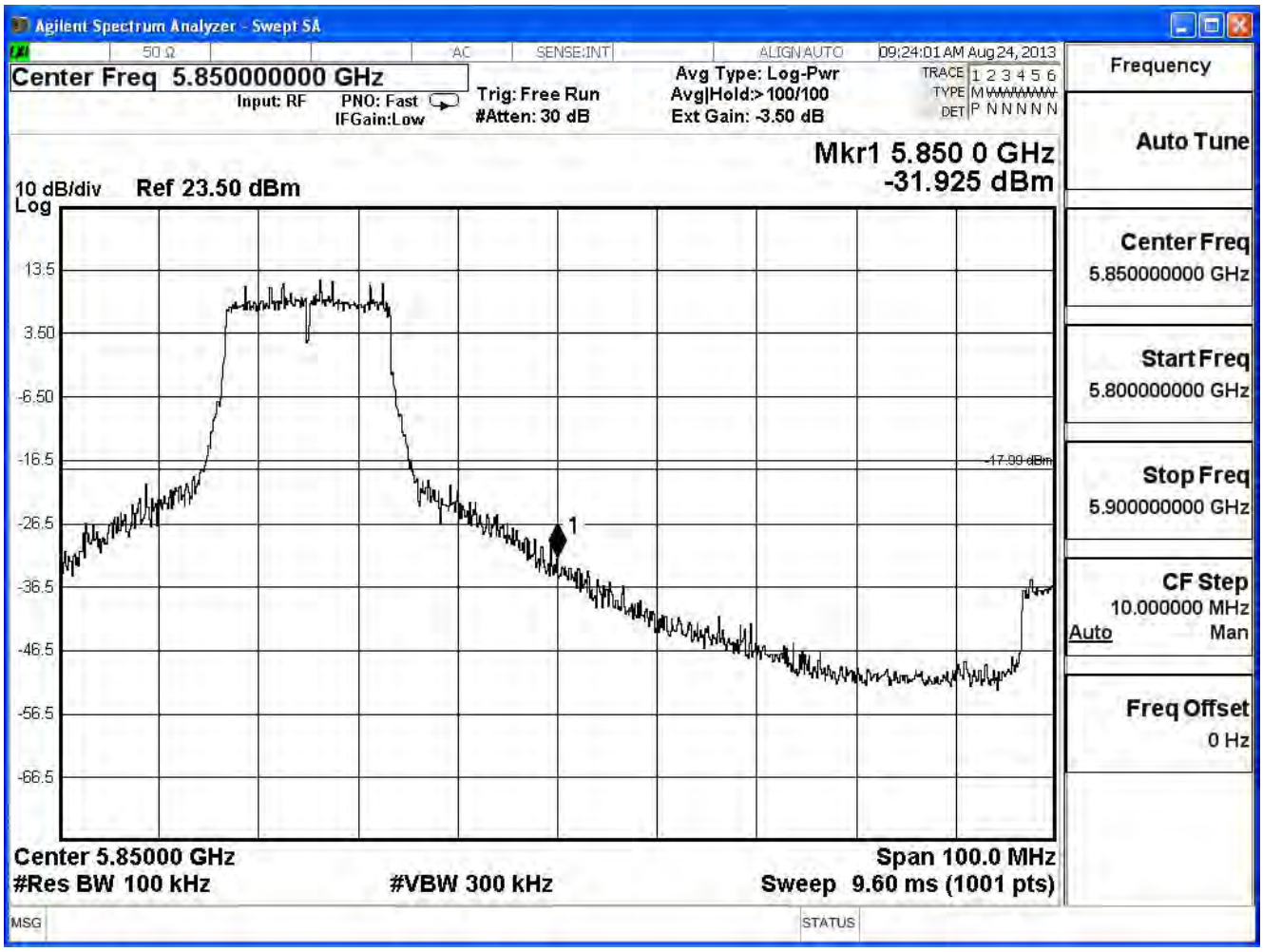
Channel 149 (5745MHz)



Channel 157 (5785MHz)



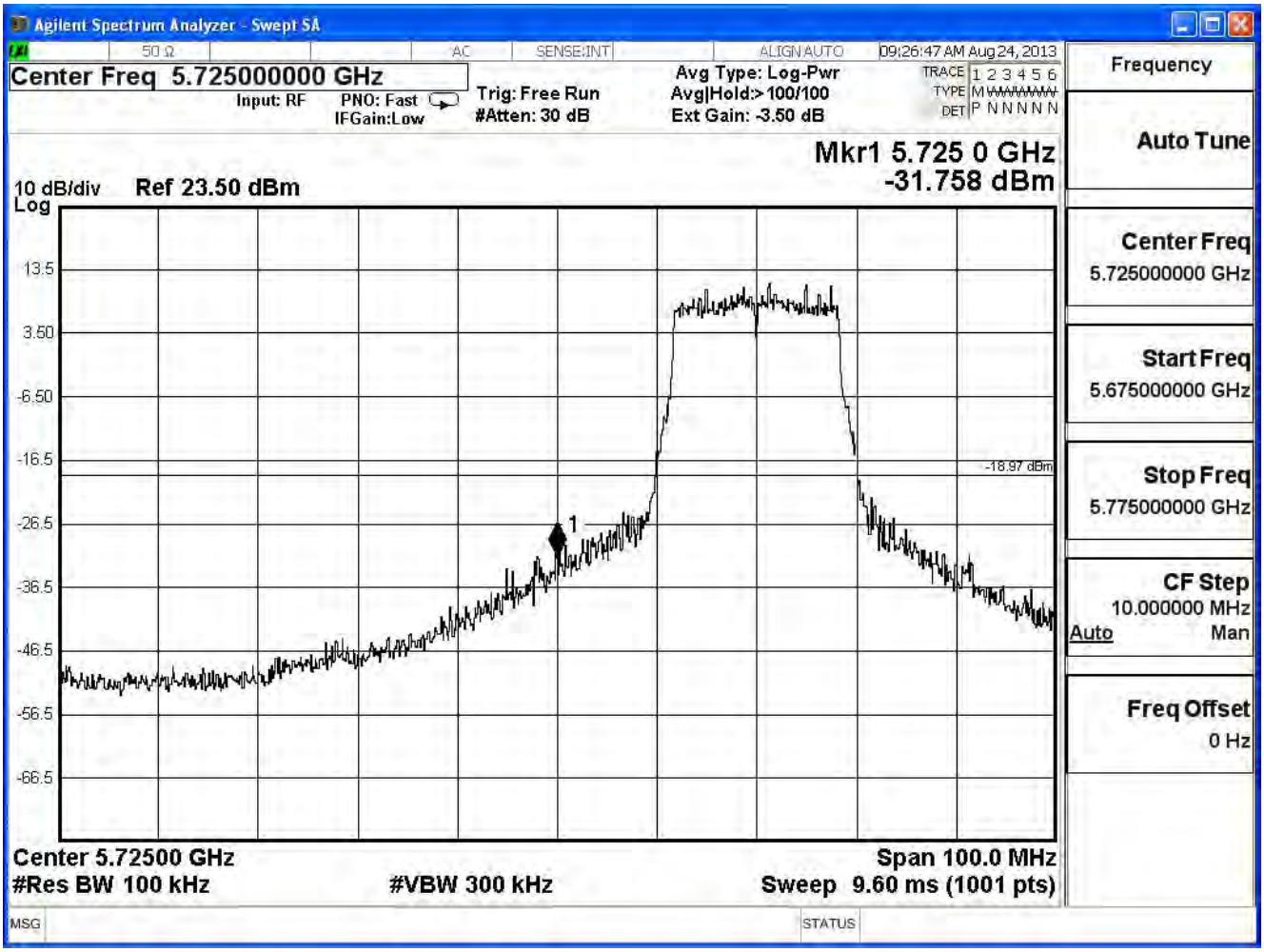
Channel 165 (5825MHz)



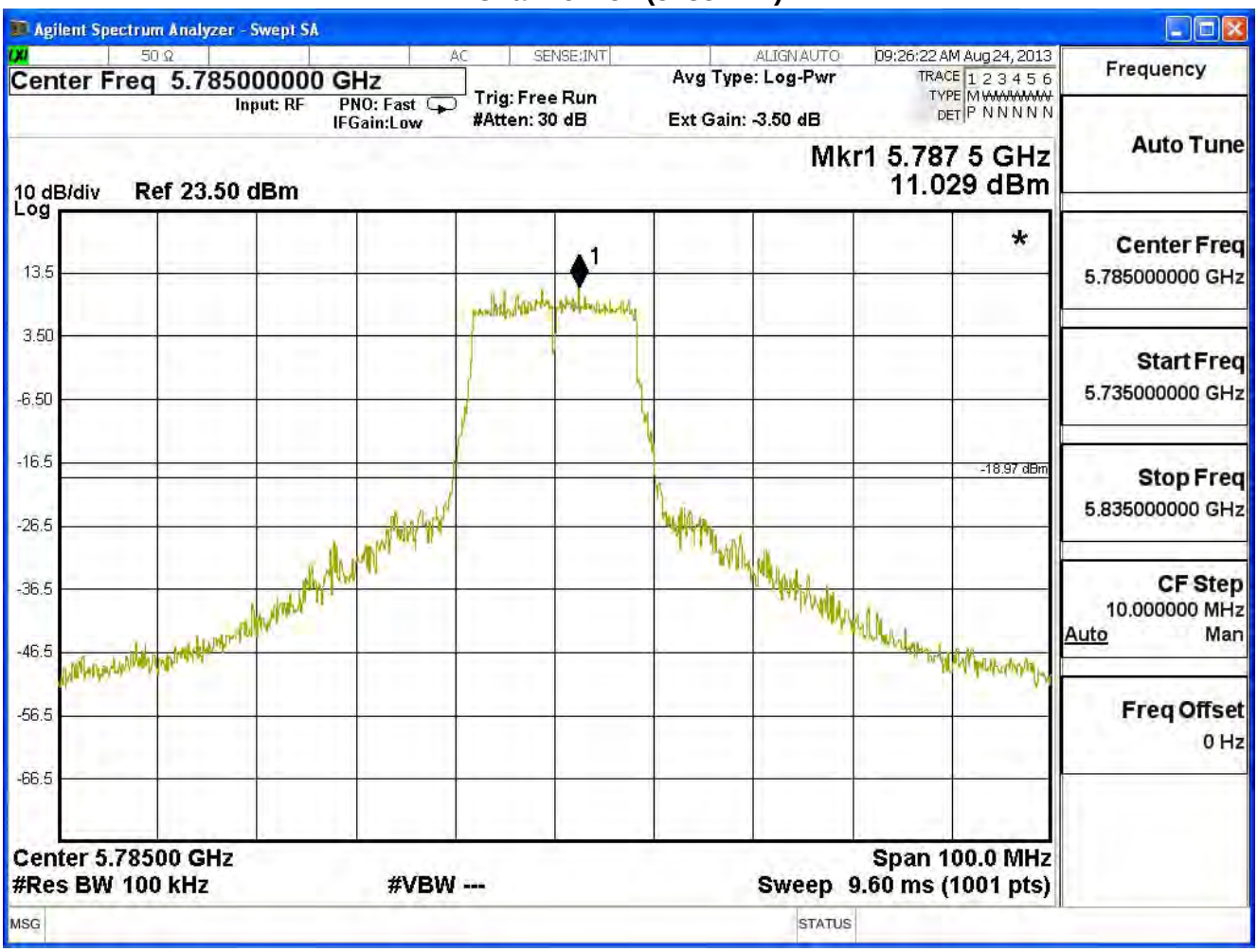
Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1:Transmit (CDD mode)		
Date of Test	2013/08/29	Test Site	SR7

IEEE 802.11a(ANT 1), Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
149	5745	42.79	≧30	Pass
165	5825	49.05	≧30	Pass

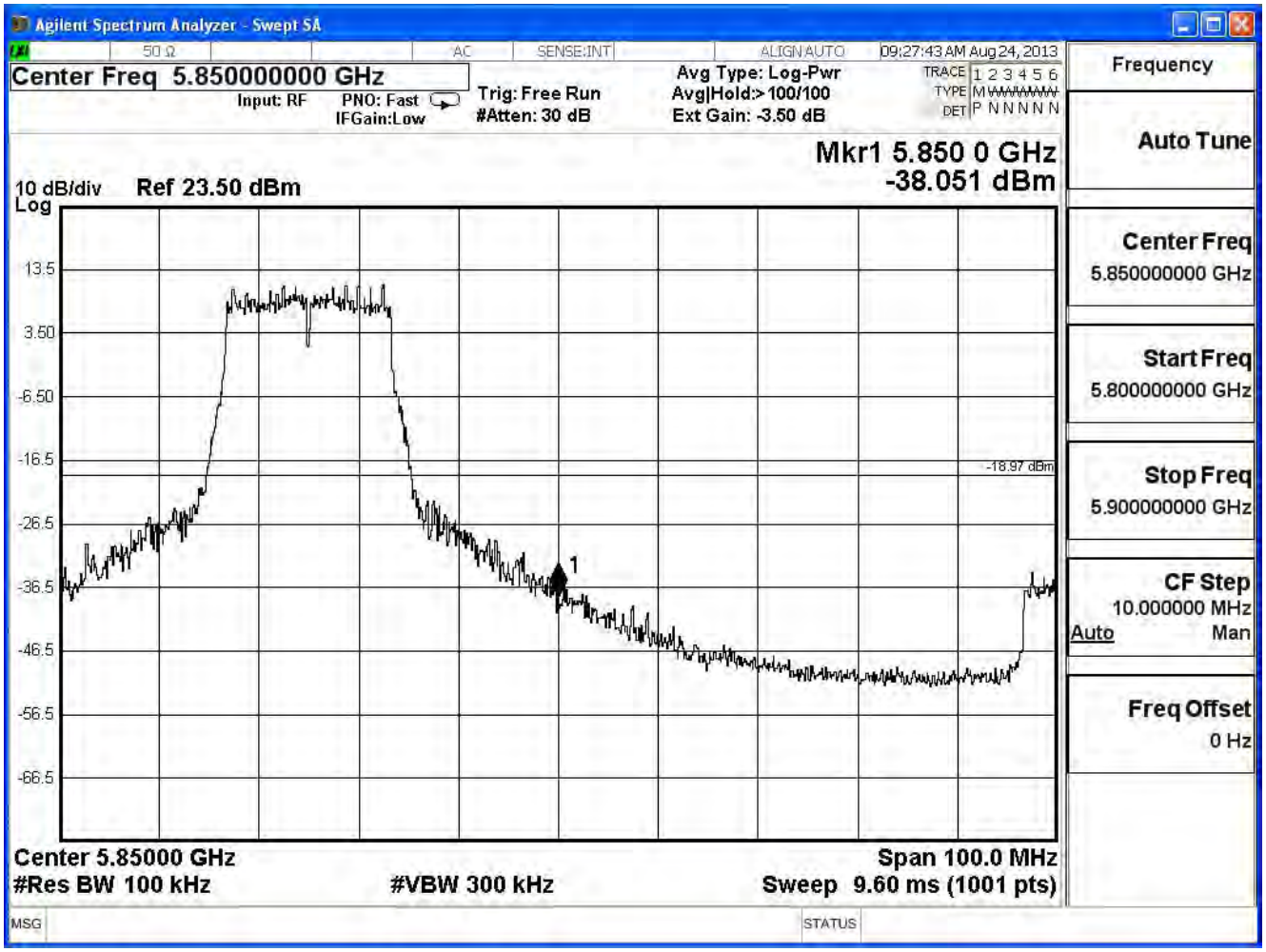
Channel 149 (5745MHz)



Channel 157 (5785MHz)



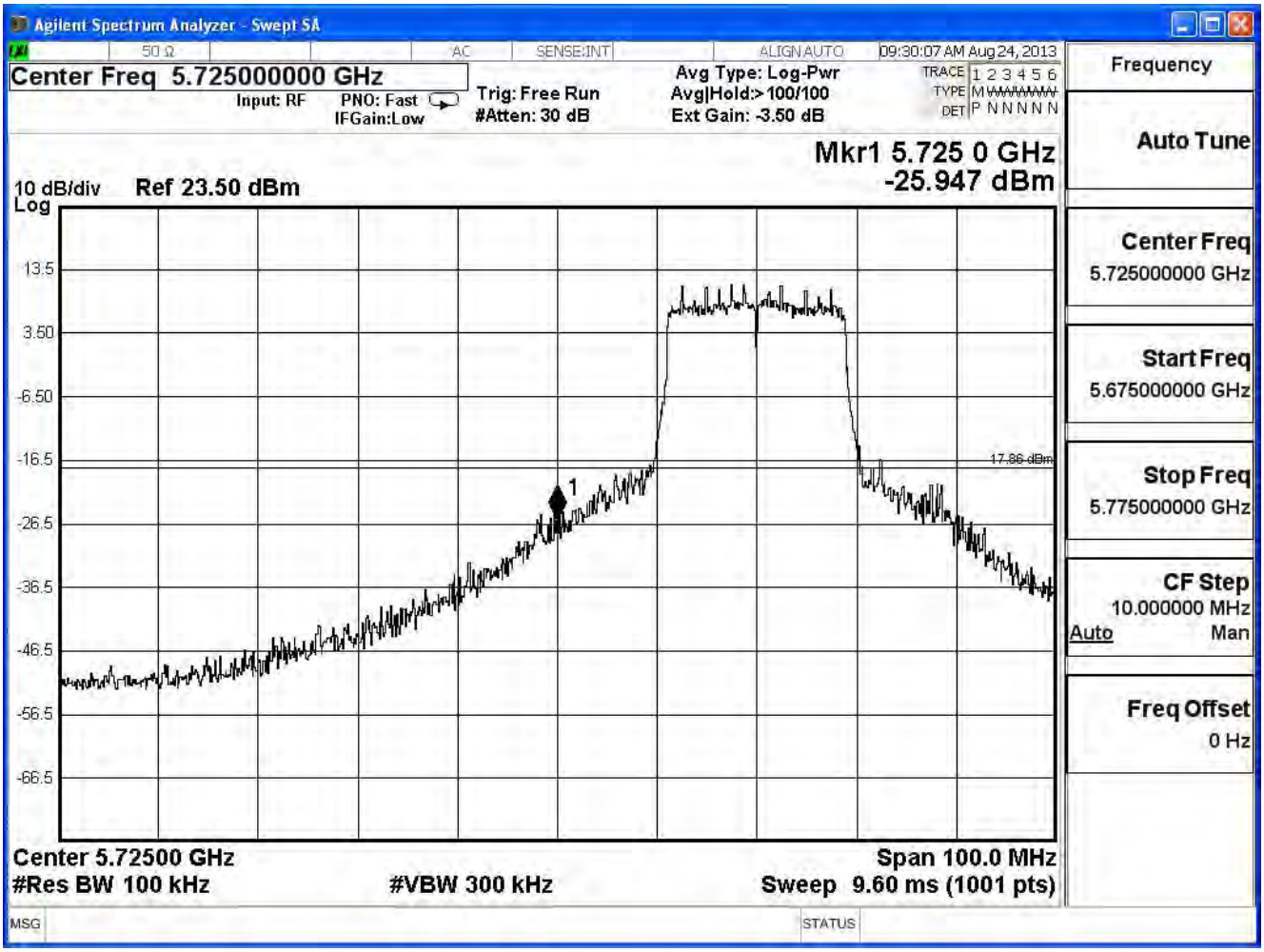
Channel 165 (5825MHz)



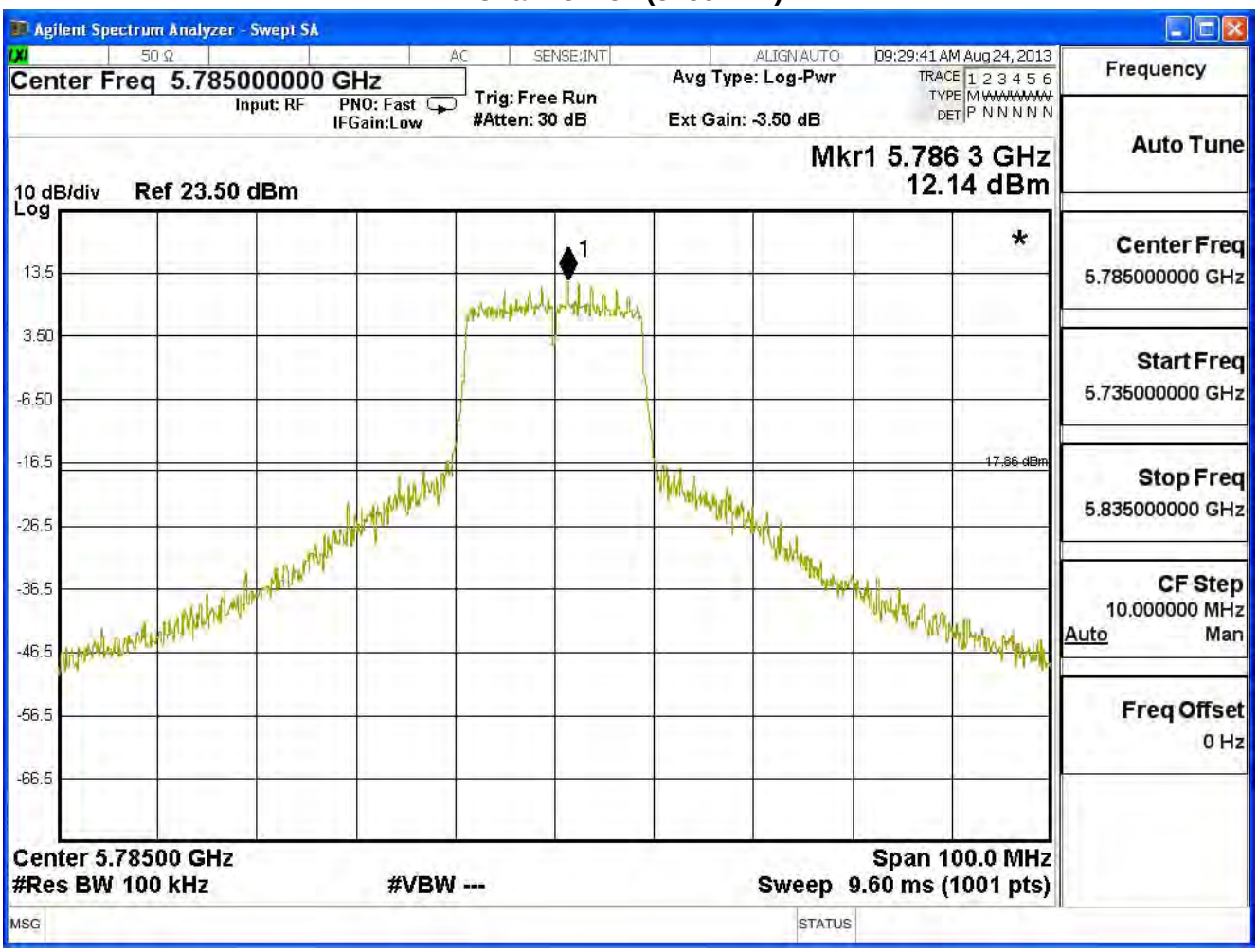
Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1:Transmit (CDD mode)		
Date of Test	2013/08/29	Test Site	SR7

IEEE 802.11n (20MHz), (ANT 0) Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
149	5745	38.07	≧30	Pass
165	5825	42.08	≧30	Pass

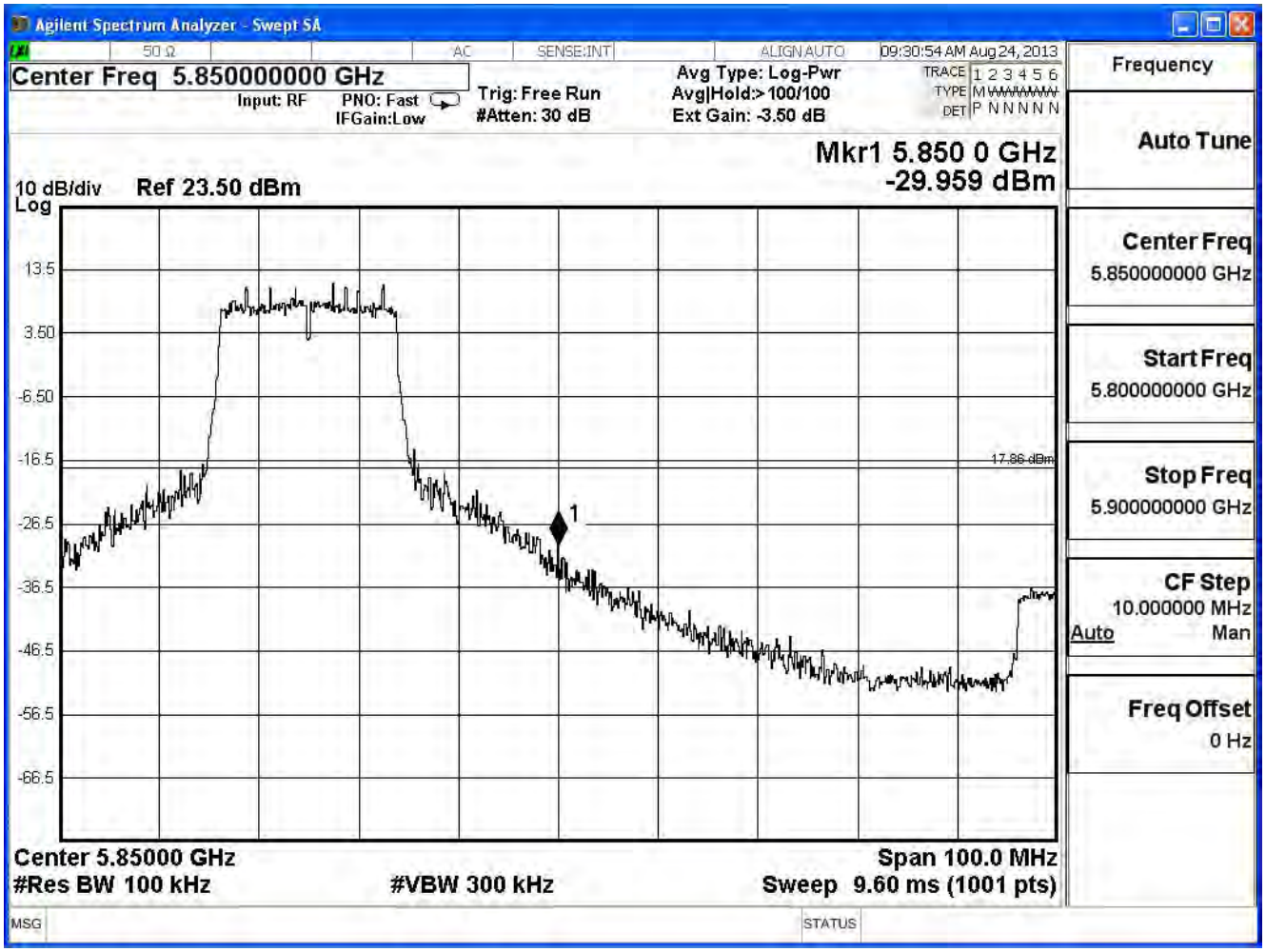
Channel 149 (5745MHz)



Channel 157 (5785MHz)



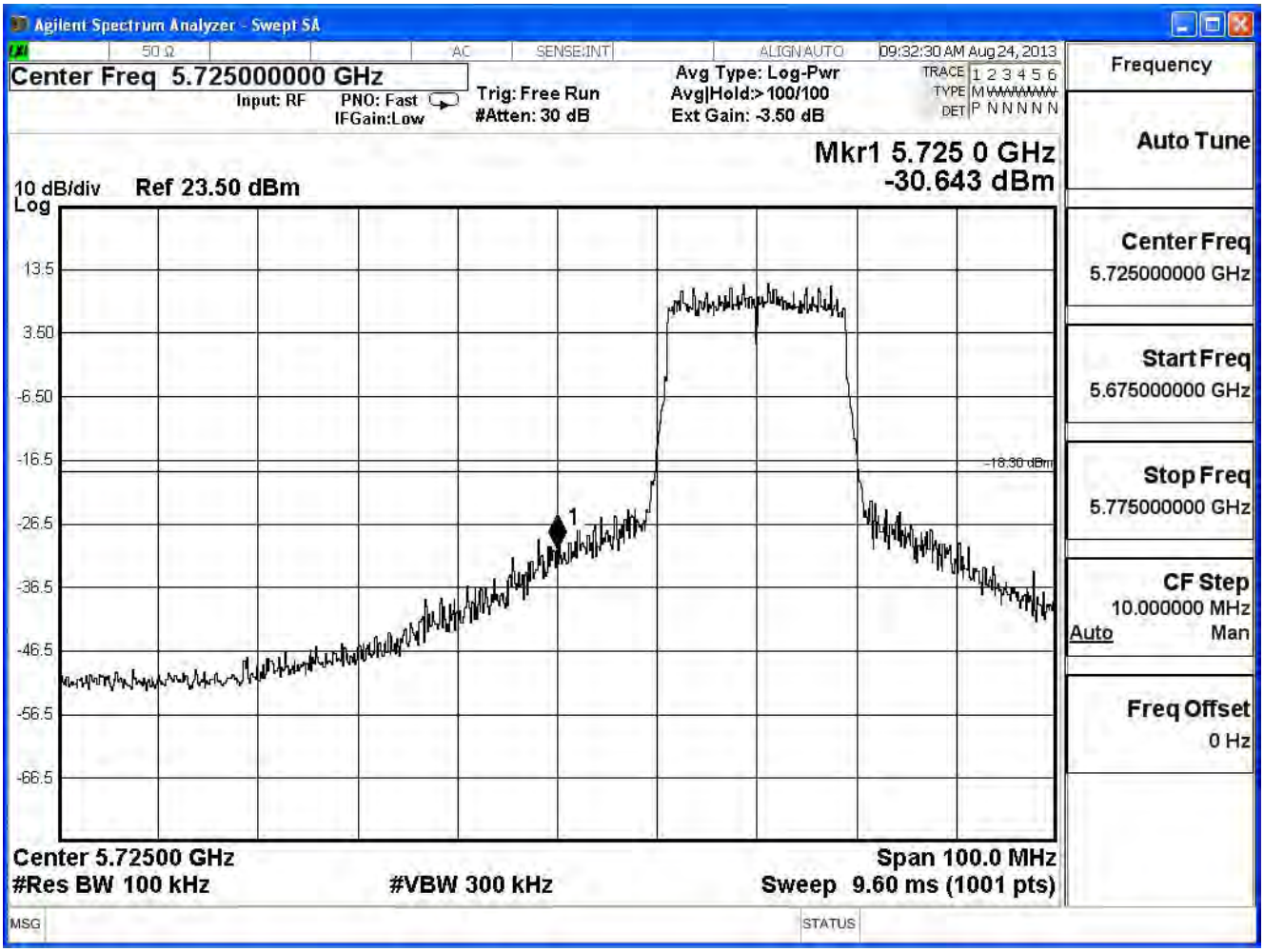
Channel 165 (5825MHz)



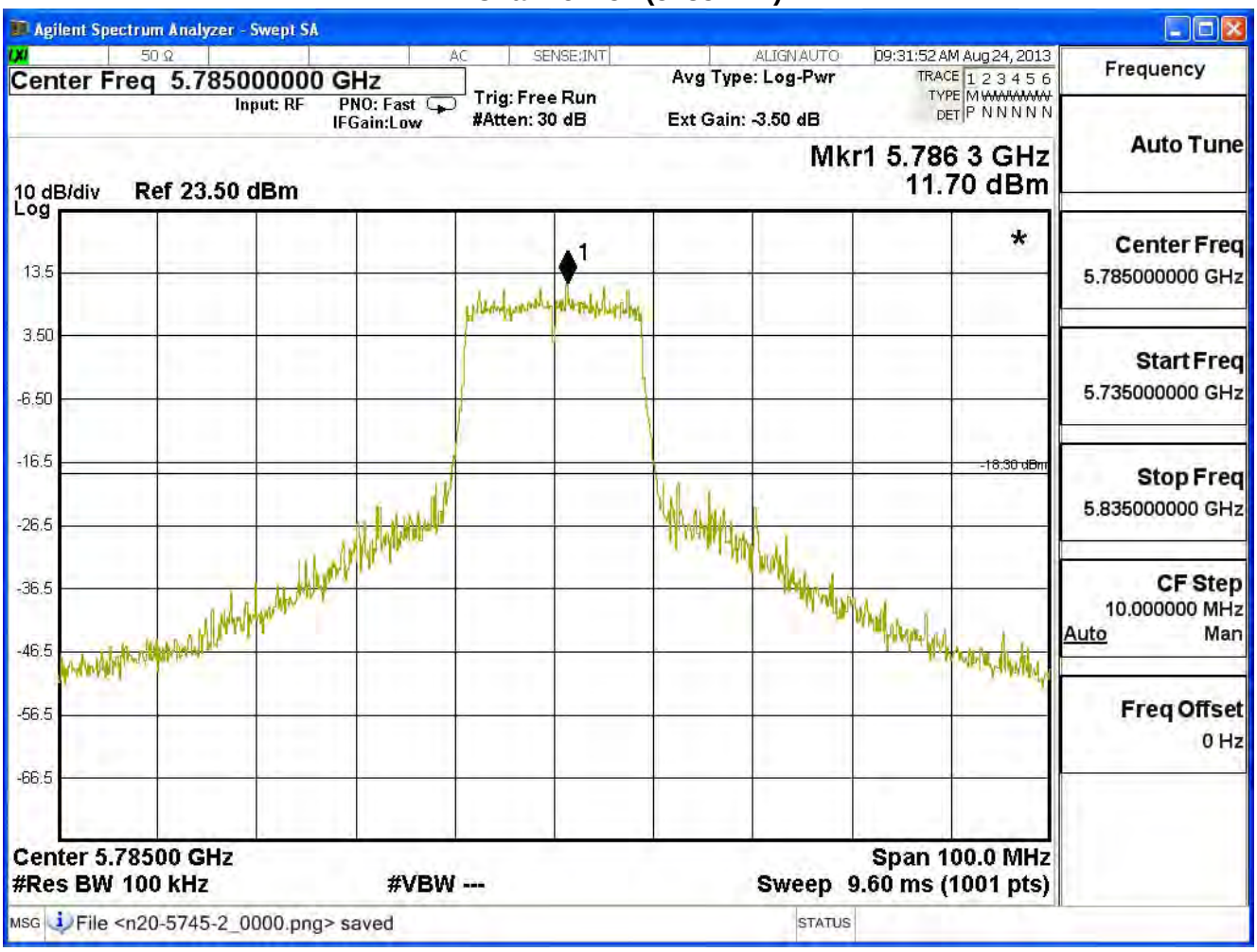
Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1:Transmit (CDD mode)		
Date of Test	2013/08/29	Test Site	SR7

IEEE 802.11n (20MHz), (ANT 1) Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
149	5745	42.34	≧30	Pass
165	5825	47.28	≧30	Pass

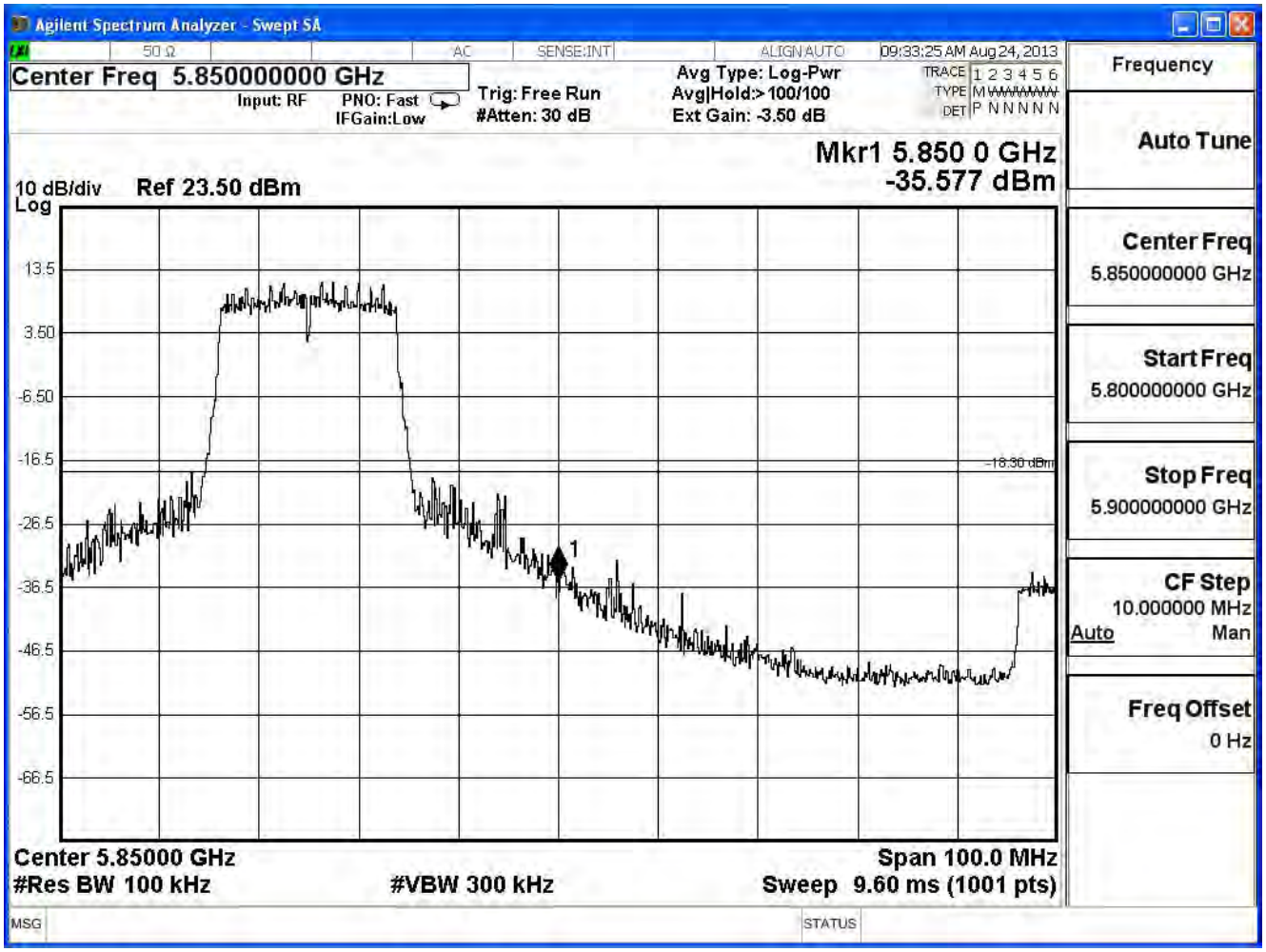
Channel 149 (5745MHz)



Channel 157 (5785MHz)



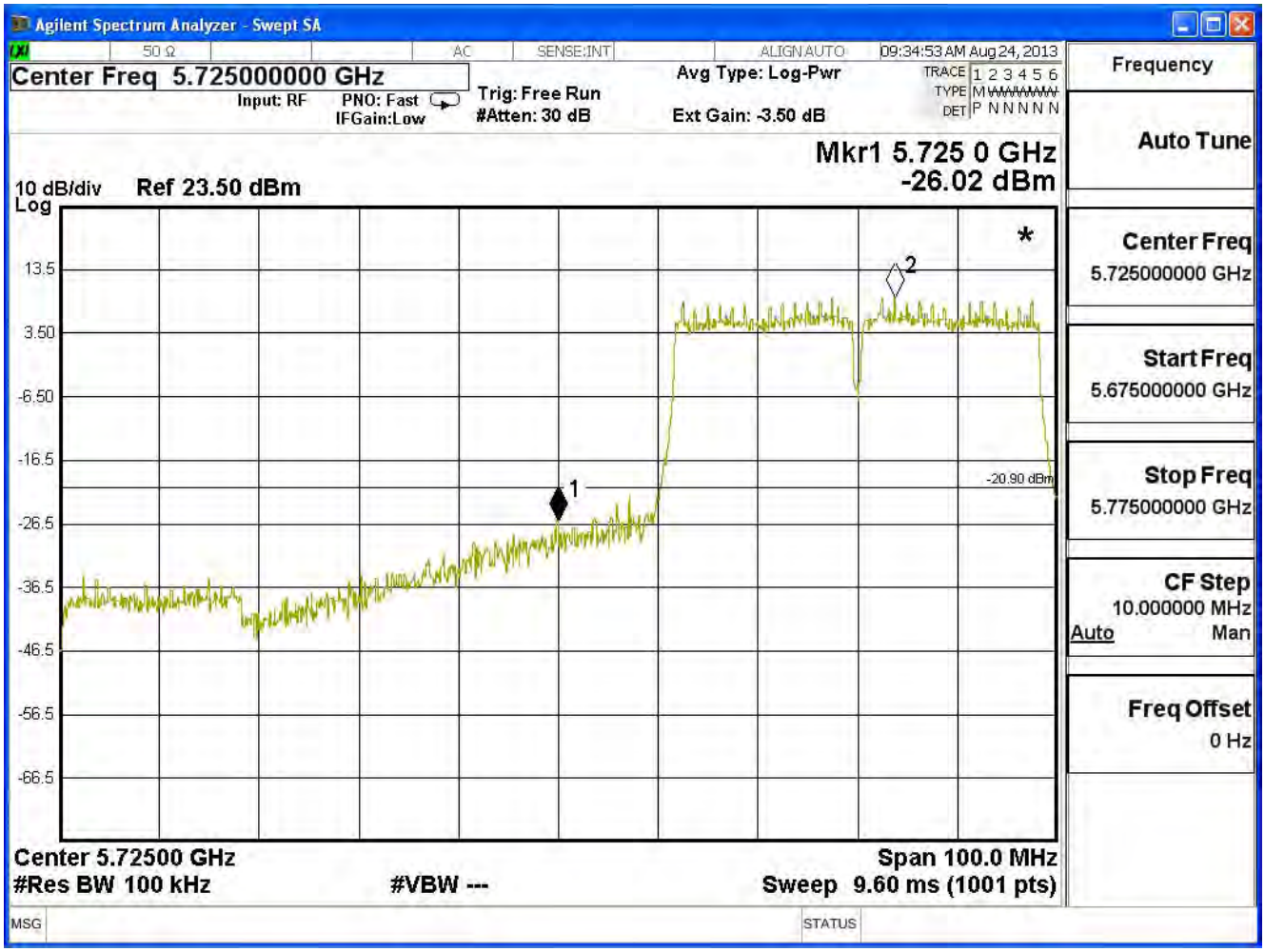
Channel 165 (5825MHz)



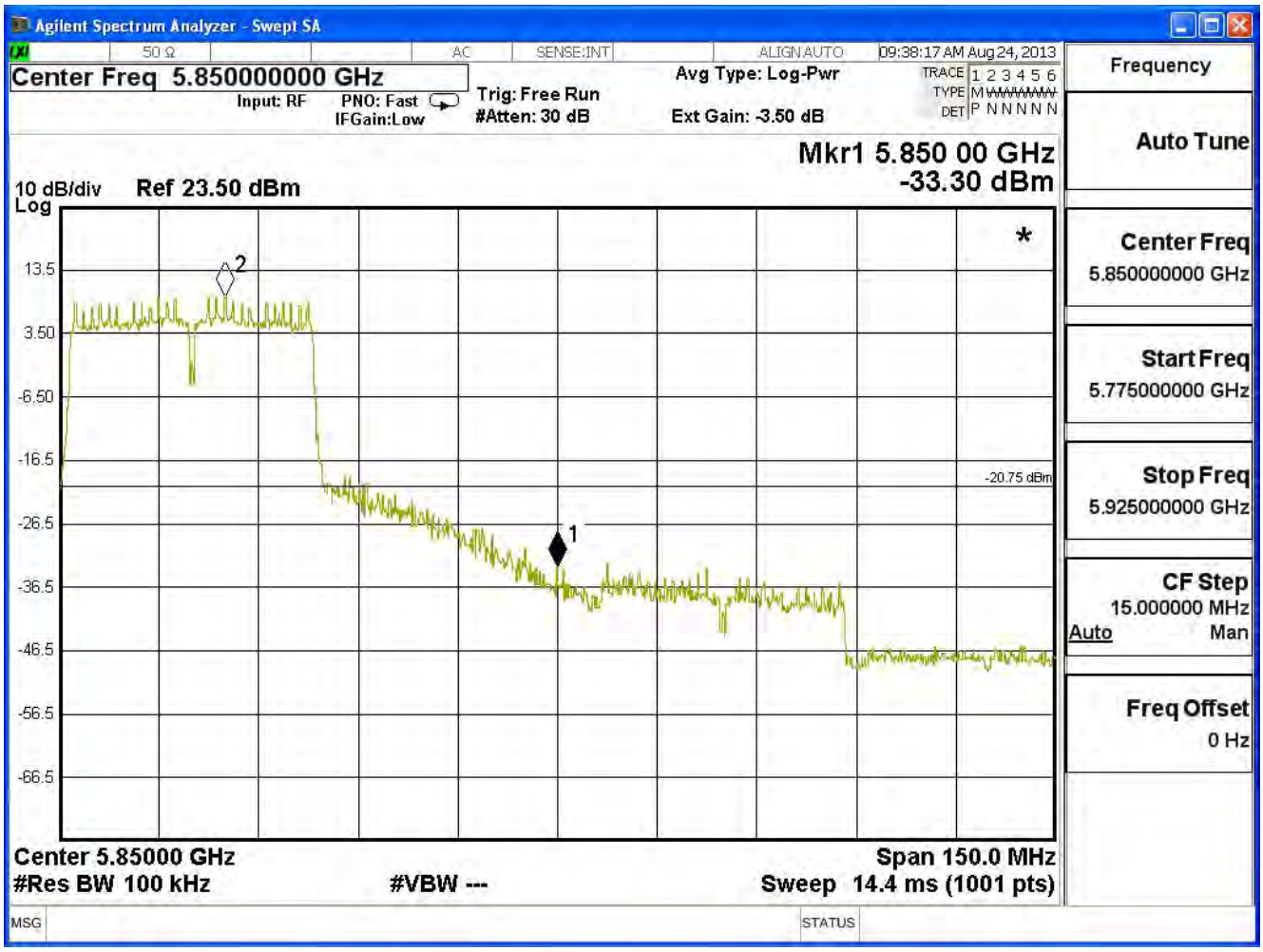
Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1:Transmit (CDD mode)		
Date of Test	2013/08/29	Test Site	SR7

IEEE 802.11n (40MHz), (ANT 0) Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
151	5755	35.12	≧30	Pass
159	5795	42.55	≧30	Pass

Channel 151 (5755MHz)



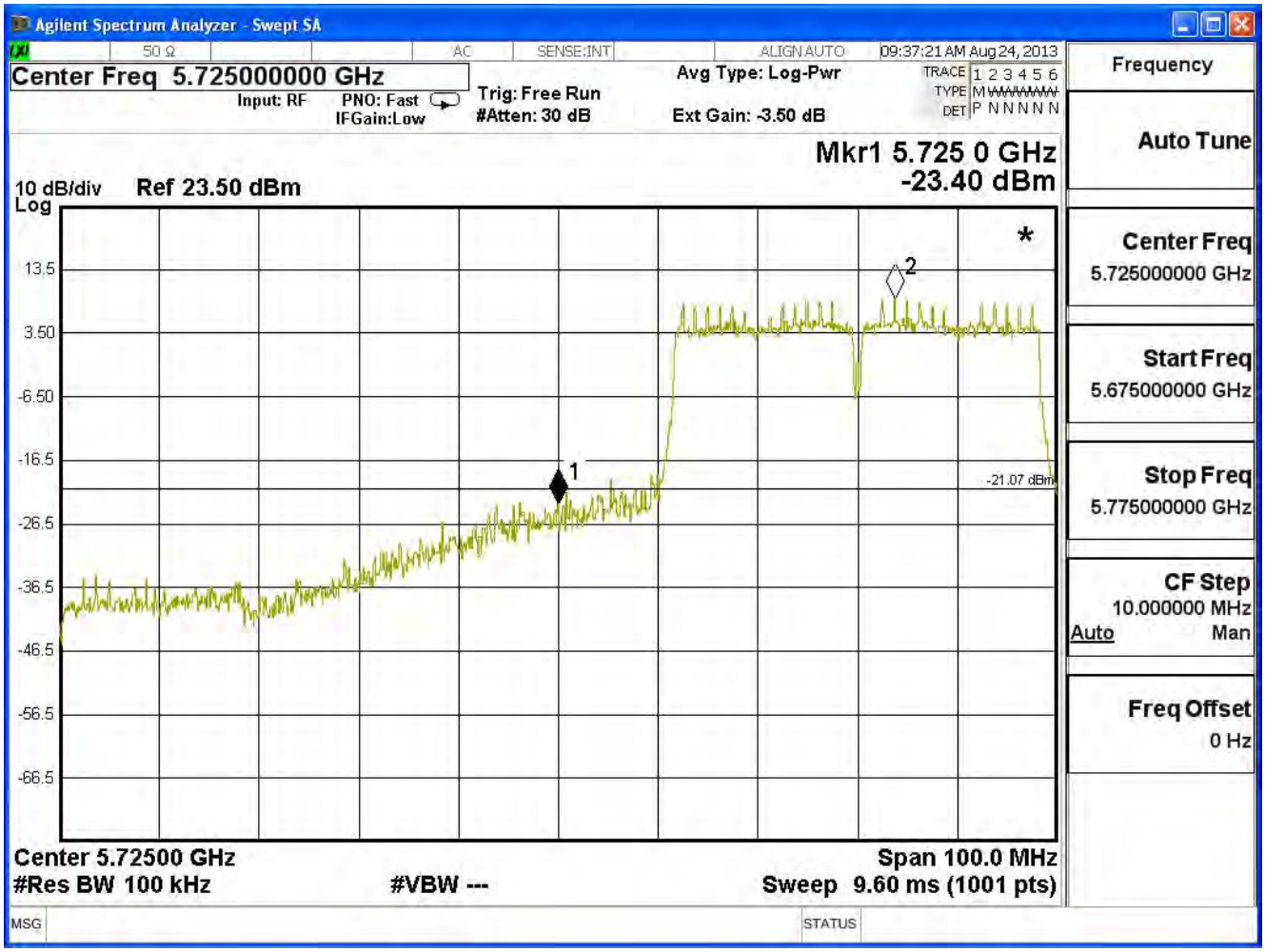
Channel 159 (5795MHz)



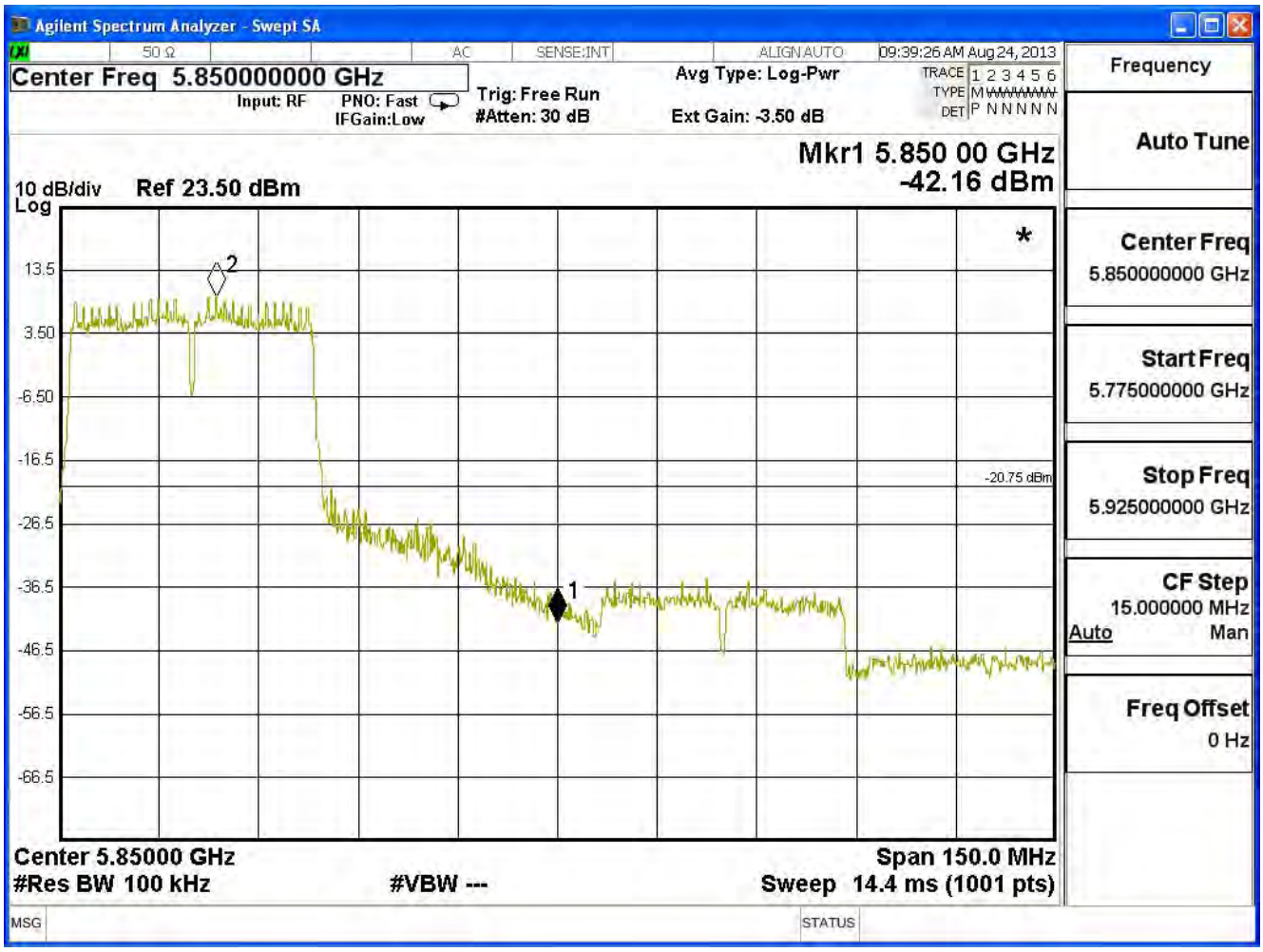
Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1:Transmit (CDD mode)		
Date of Test	2013/08/29	Test Site	SR7

IEEE 802.11n (40MHz), (ANT 1) Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
151	5755	32.33	≧30	Pass
159	5795	51.41	≧30	Pass

Channel 151 (5755MHz)

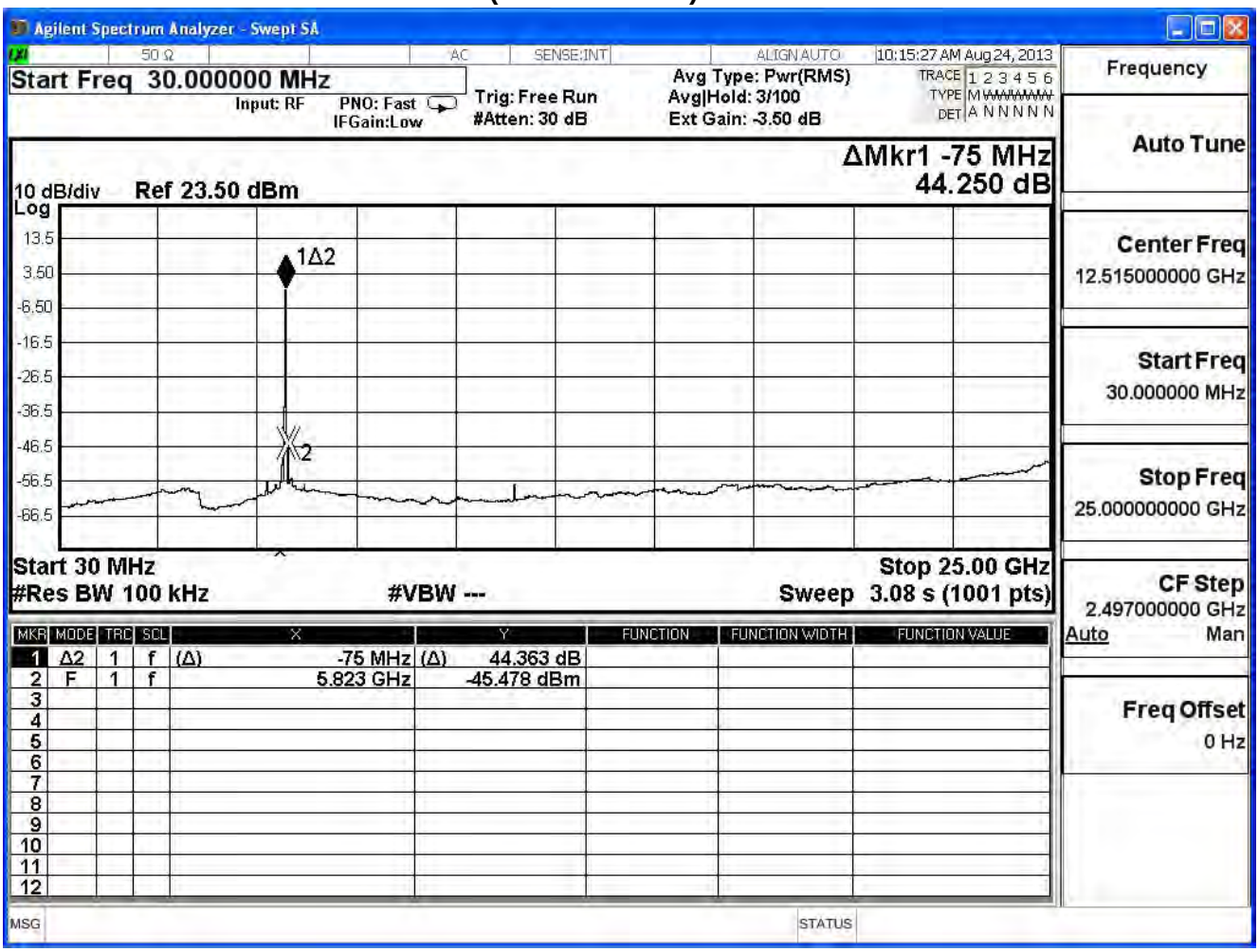


Channel 159 (5795MHz)

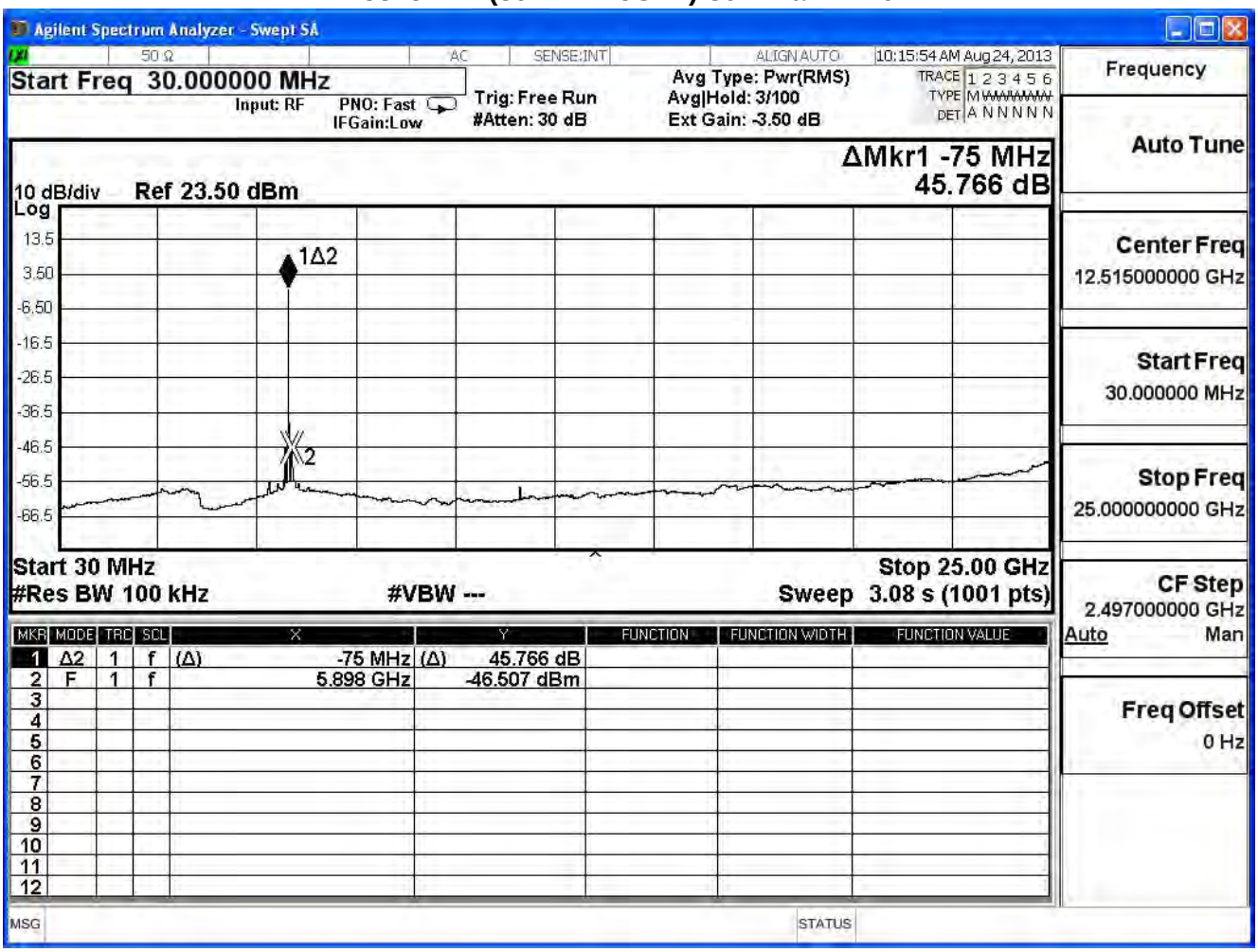


Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1:Transmit (CDD mode)		
Date of Test	2013/08/29	Test Site	SR7

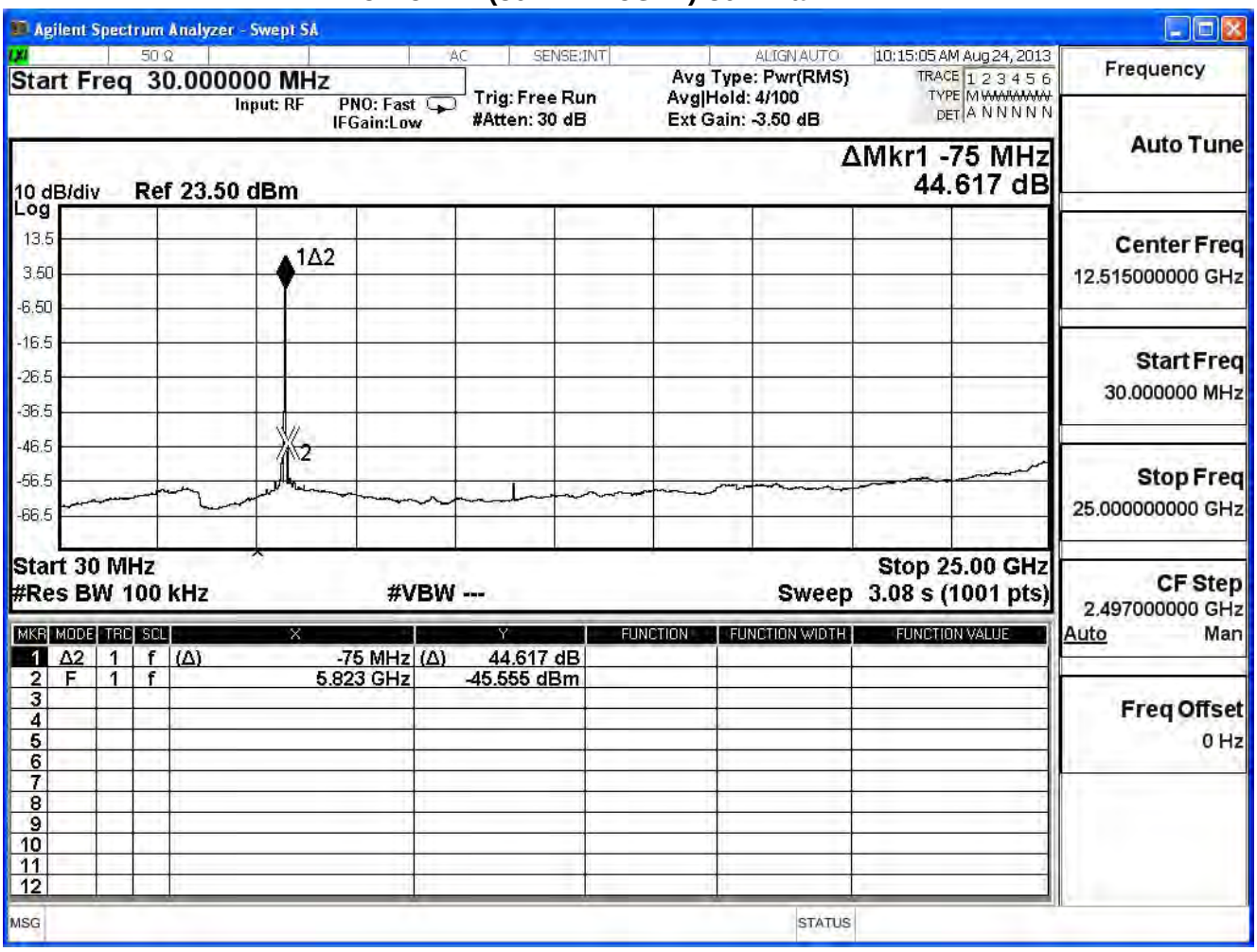
5745MHz (30MHz~25GHz)-802.11a-ANT 0



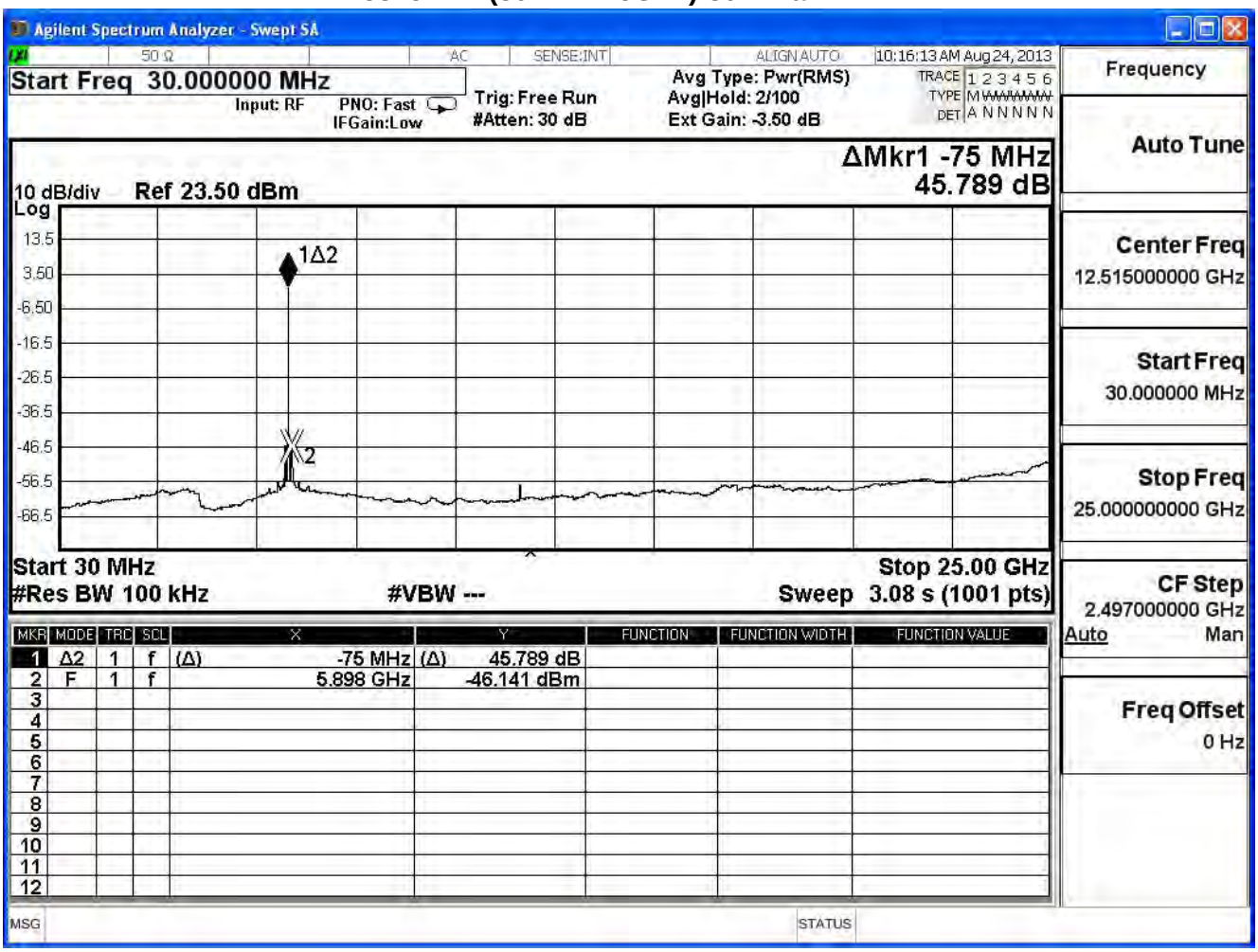
5825MHz (30MHz~25GHz)-802.11a-ANT 0



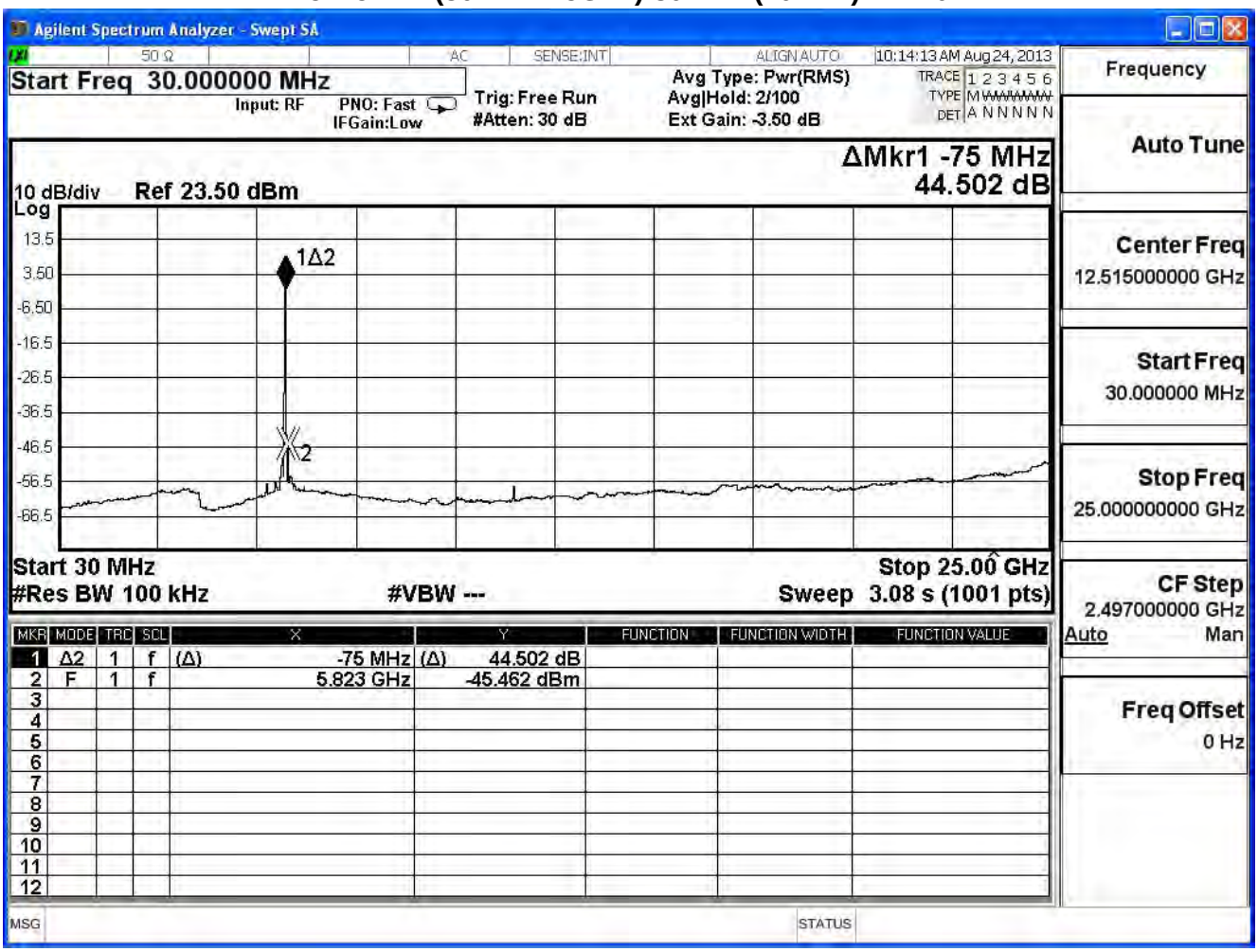
5745MHz (30MHz~25GHz)-802.11a-ANT 1



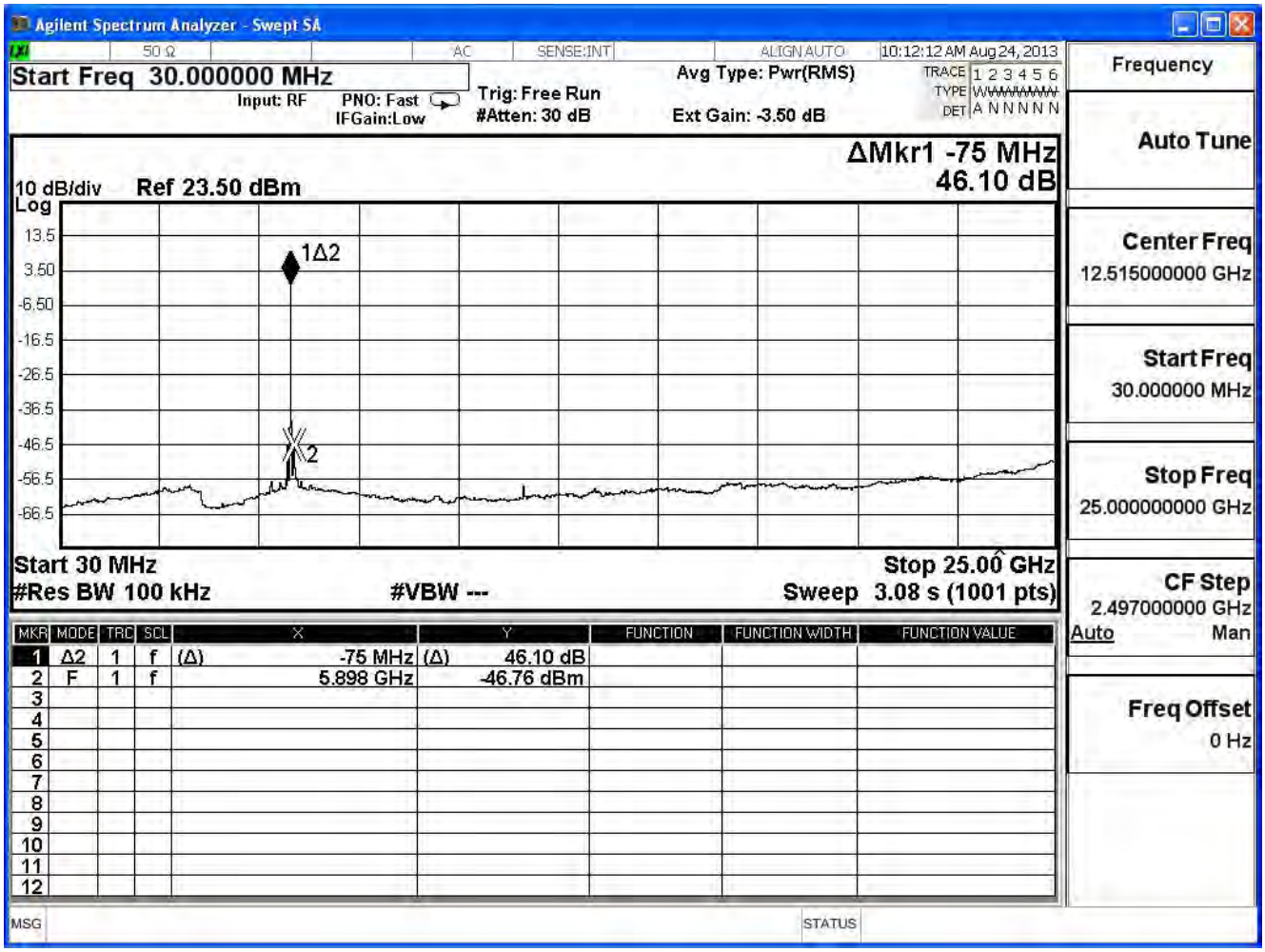
5825MHz (30MHz~25GHz)-802.11a-ANT 1



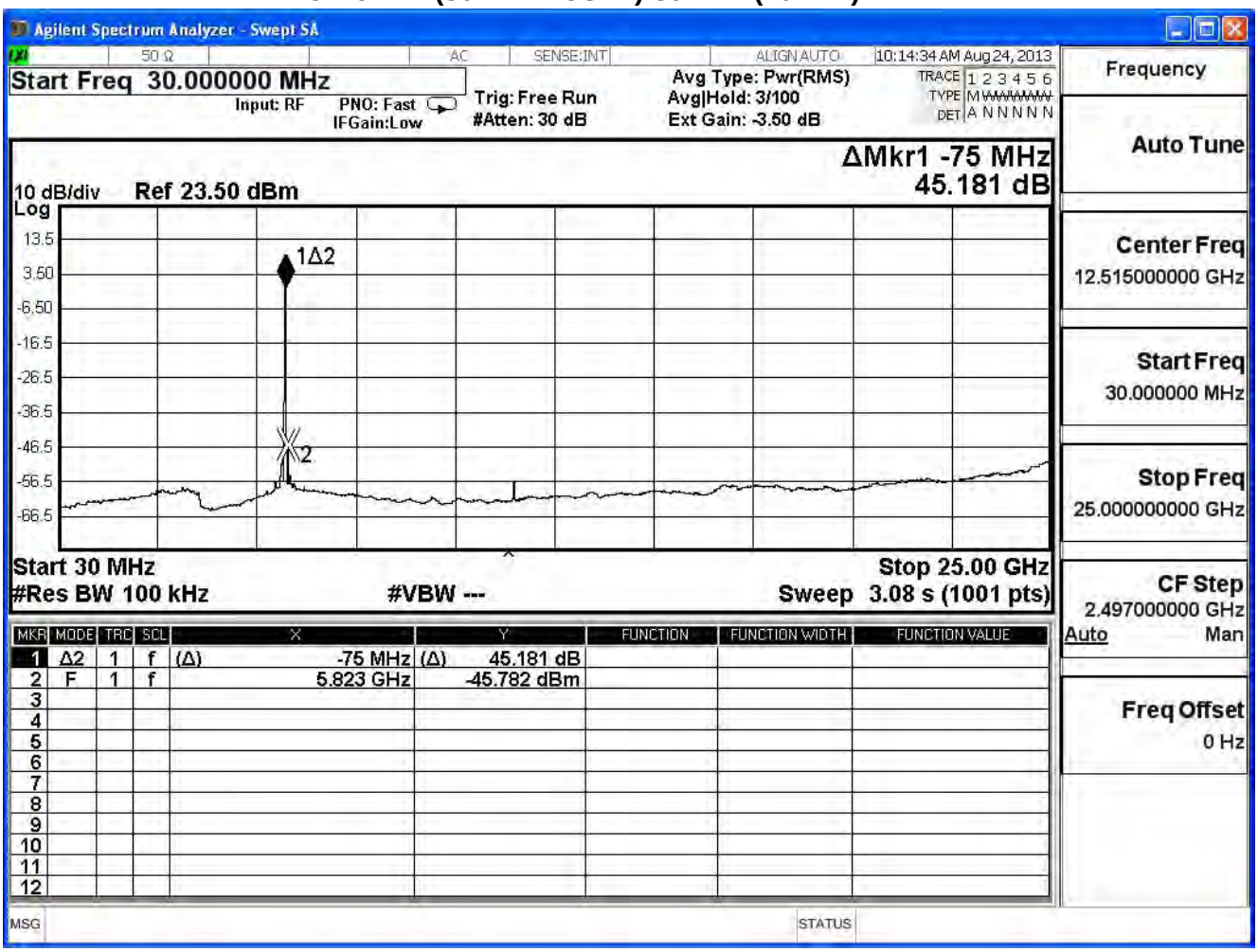
5745MHz (30MHz~25GHz)-802.11n(20MHz)-ANT 0



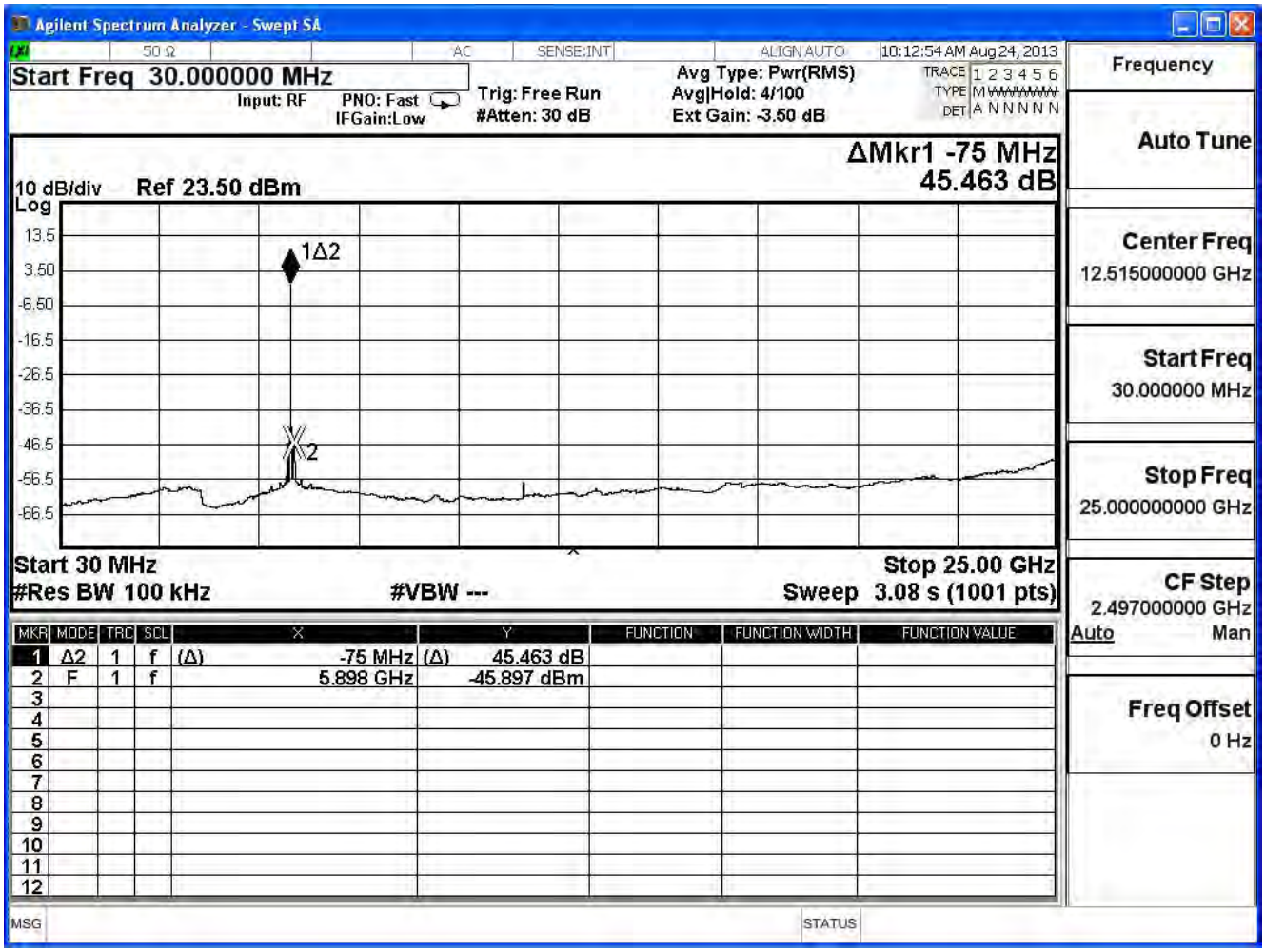
5825MHz (30MHz~25GHz) -802.11n(20MHz)-ANT 0



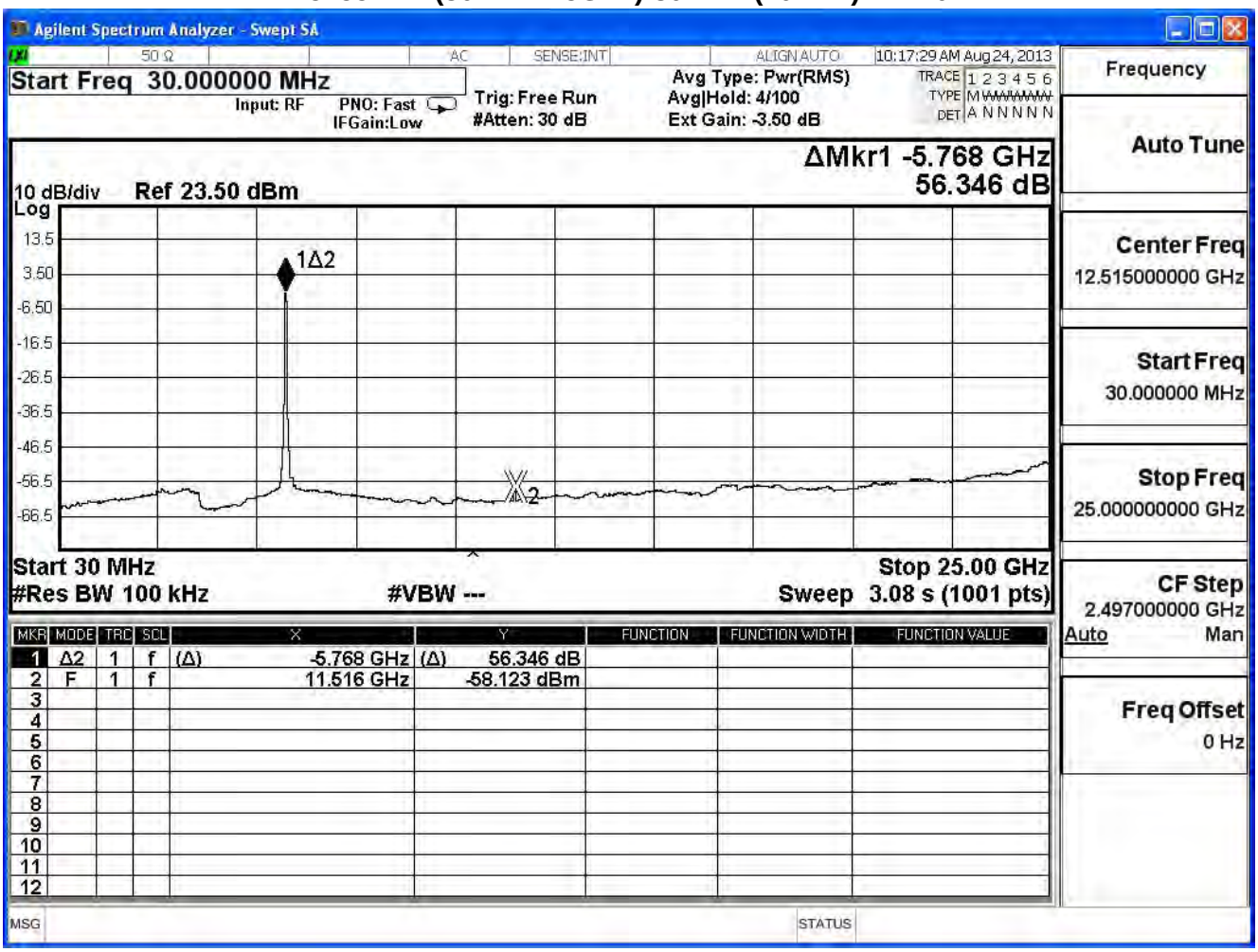
5745MHz (30MHz~25GHz)-802.11n(20MHz)-ANT 1



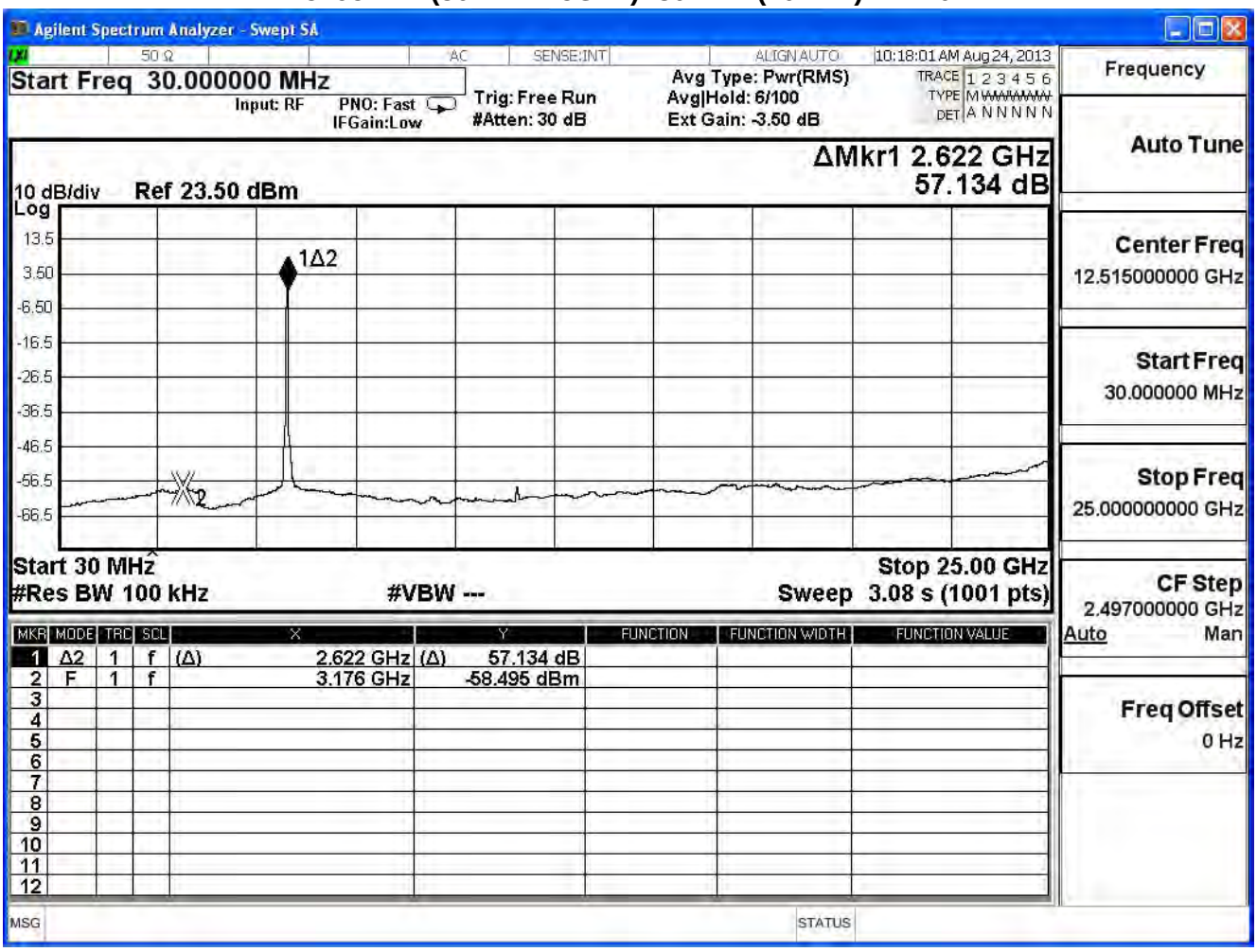
5825MHz (30MHz~25GHz) -802.11n(20MHz)-ANT 1



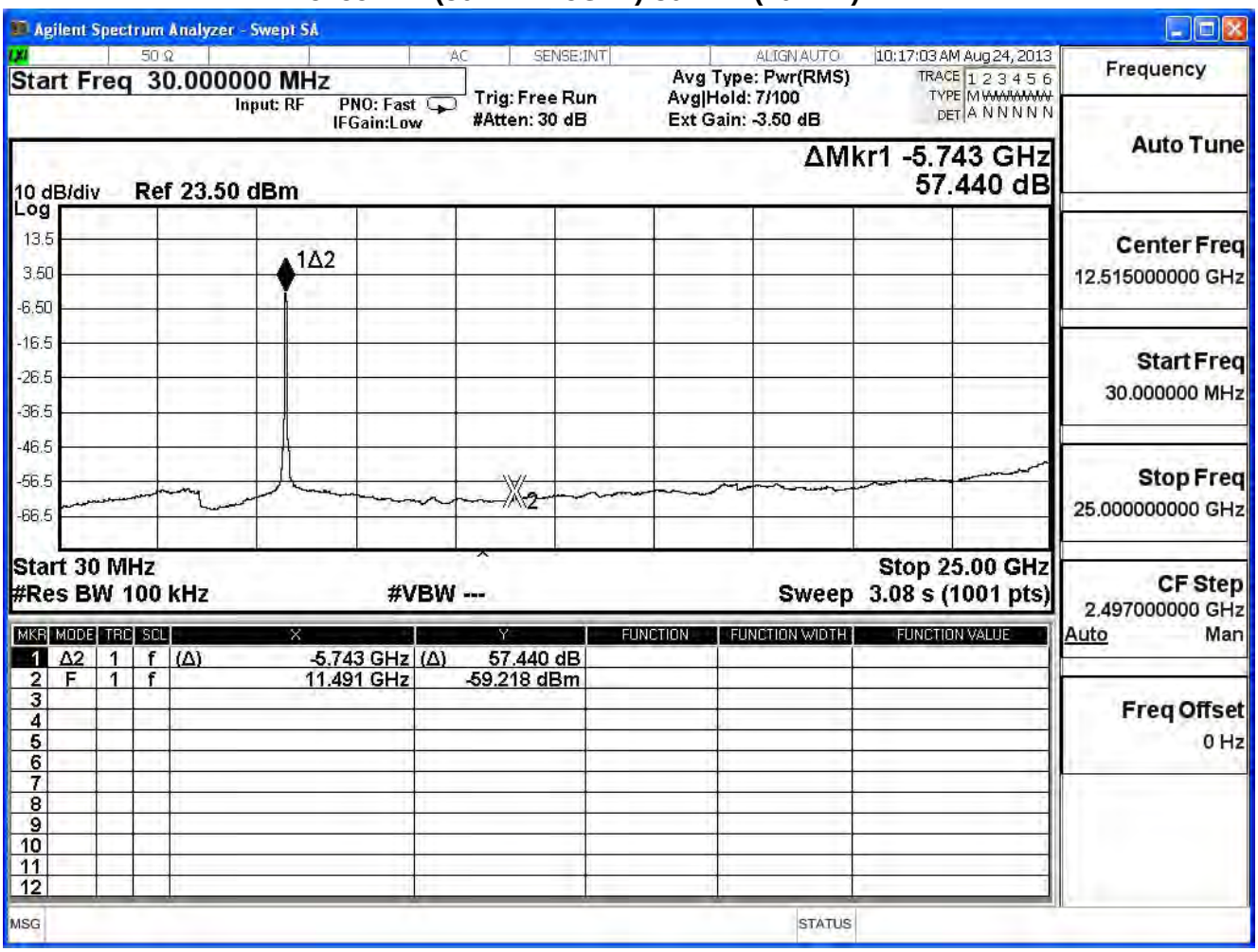
5755MHz (30MHz~25GHz)-802.11n(40MHz)-ANT 0



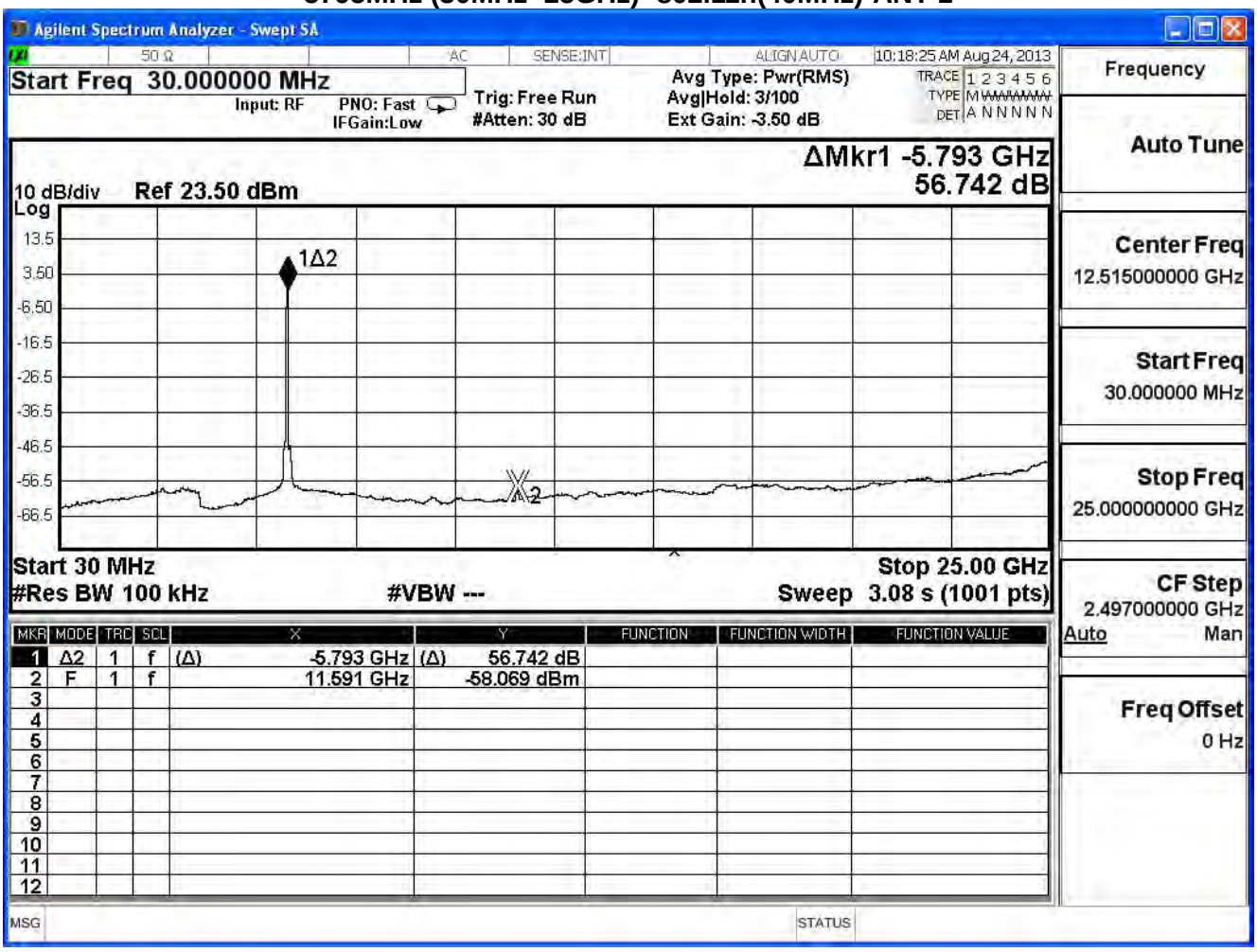
5795MHz (30MHz~25GHz) -802.11n(40MHz)-ANT 0



5755MHz (30MHz~25GHz)-802.11n(40MHz)-ANT 1



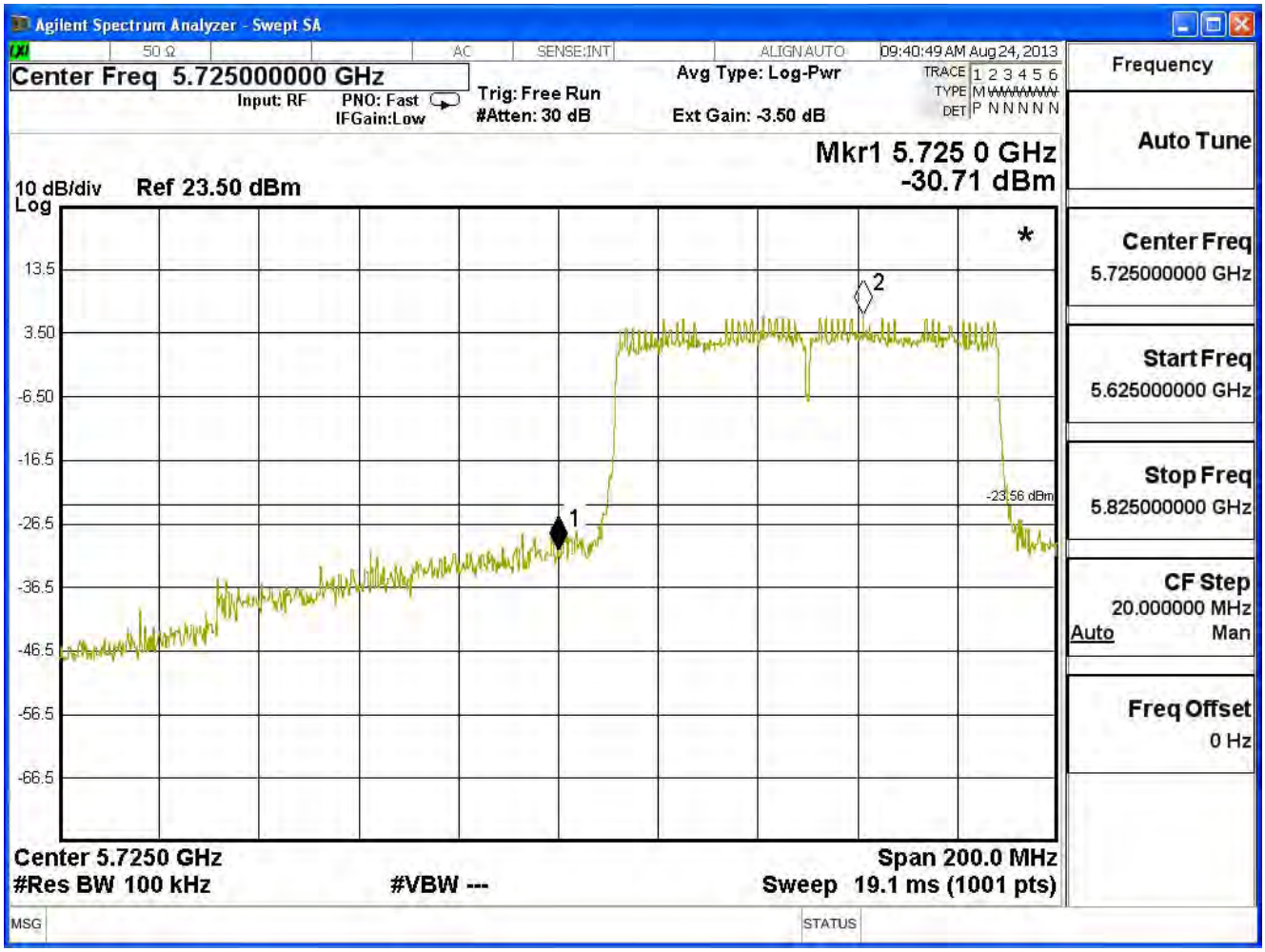
5795MHz (30MHz~25GHz) -802.11n(40MHz)-ANT 1



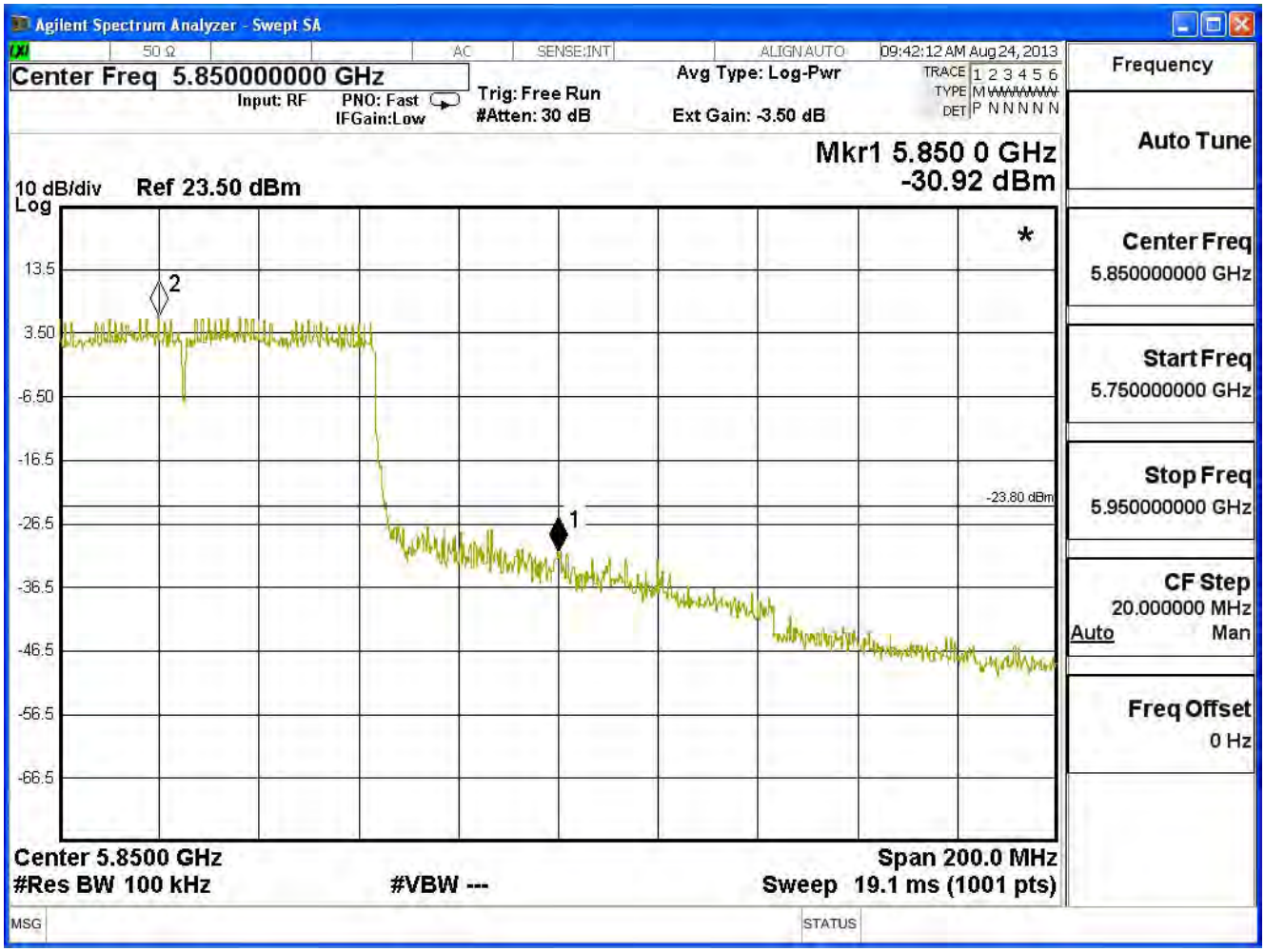
Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1:Transmit (CDD mode)		
Date of Test	2013/08/29	Test Site	SR7

IEEE 802.11ac (80MHz), (ANT 0) Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
155	5775	37.12	≧30	Pass

Channel 155 (5775MHz)



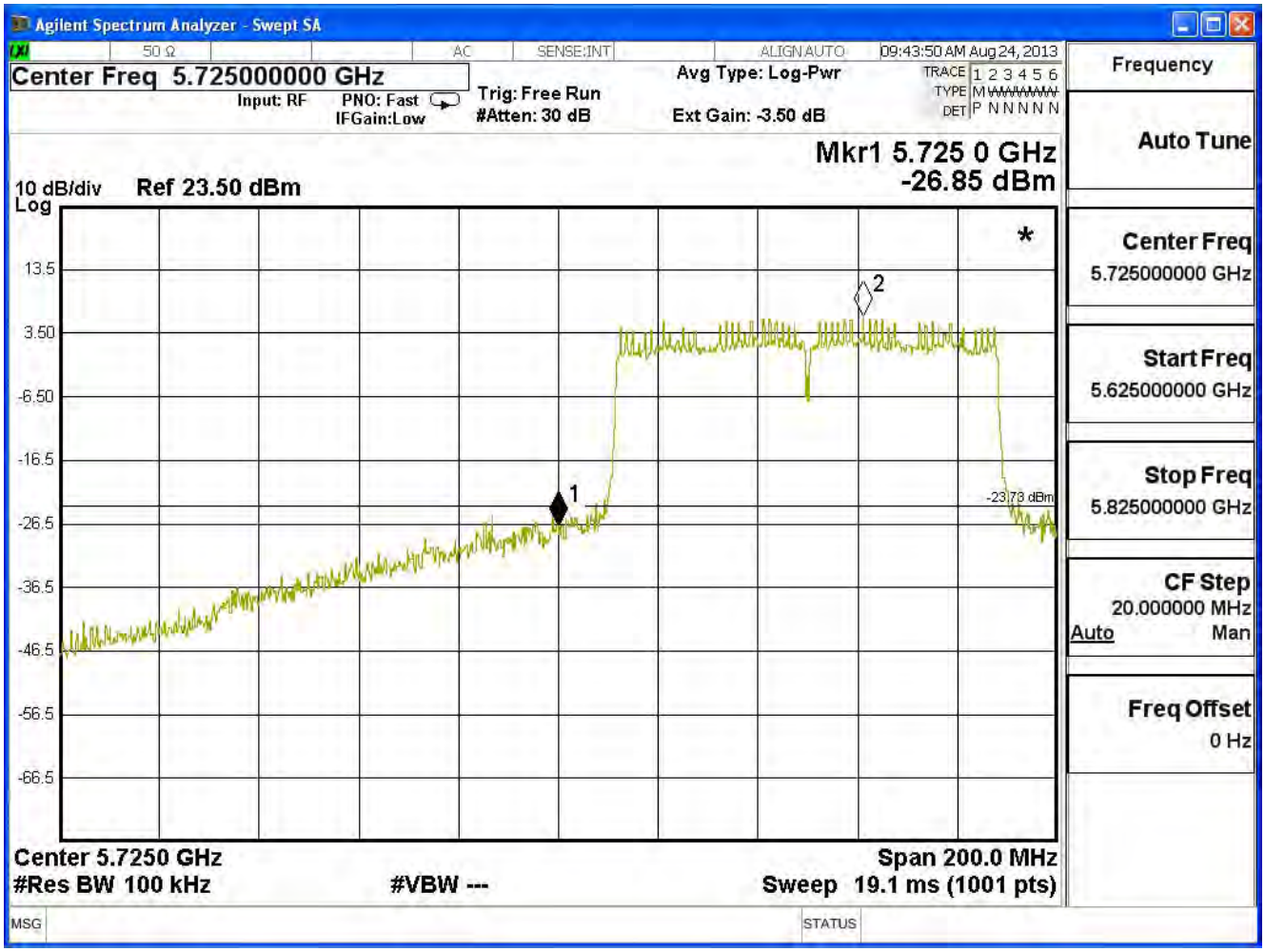
Channel 155 (5775MHz)



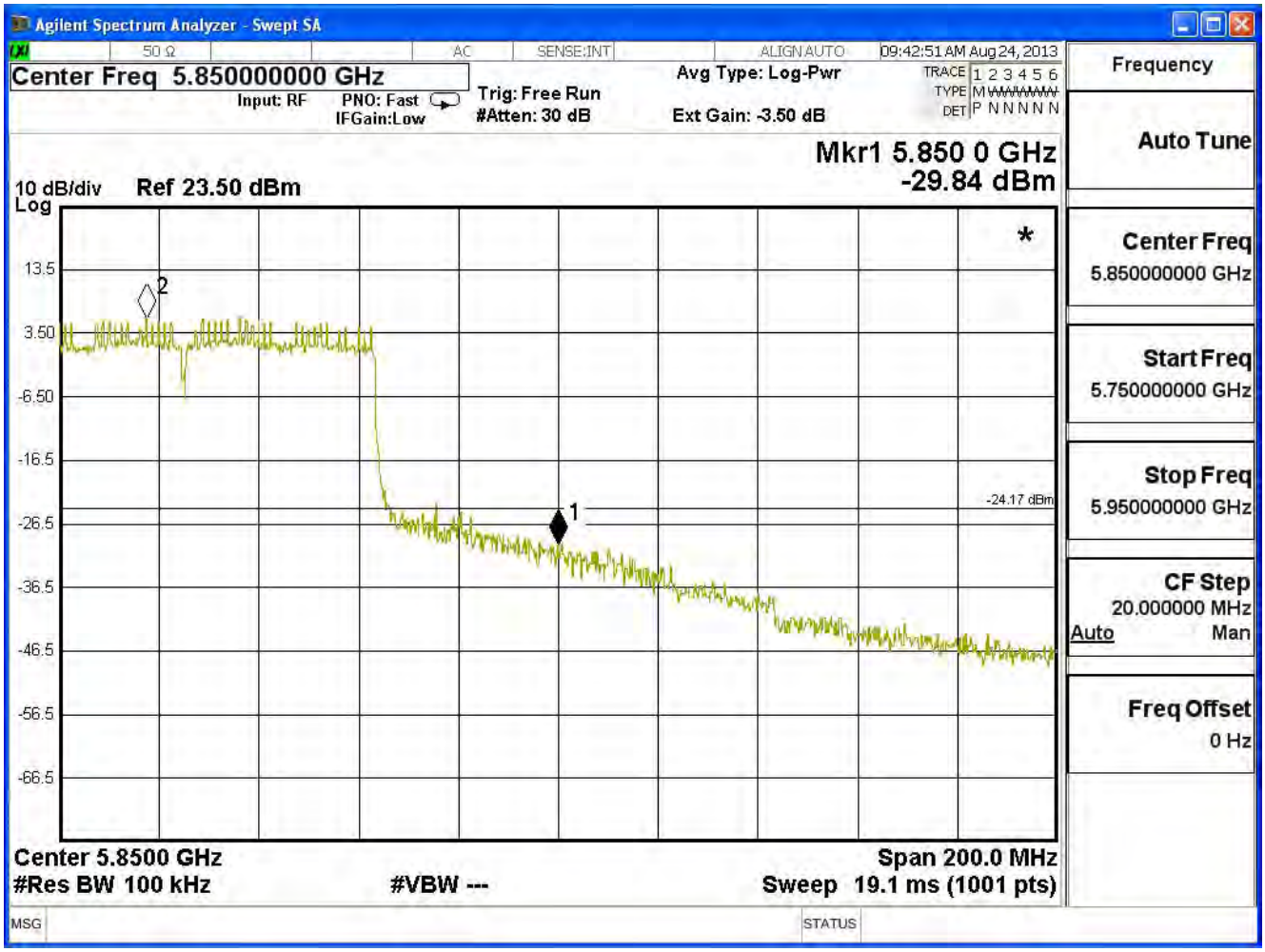
Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1:Transmit (CDD mode)		
Date of Test	2013/08/29	Test Site	SR7

IEEE 802.11ac (80MHz), (ANT 1) Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
155	5775	33.12	≧30	Pass

Channel 155 (5775MHz)

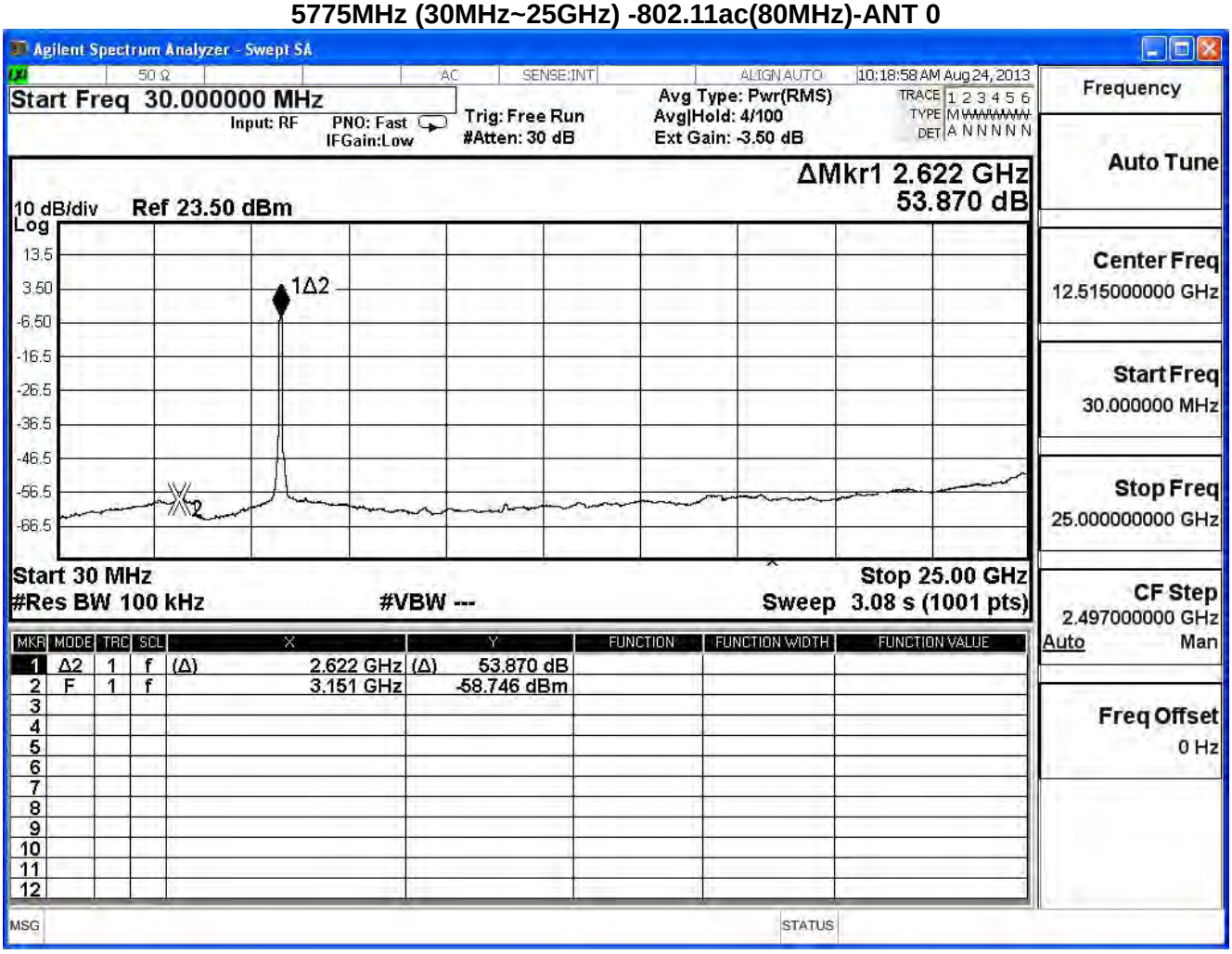
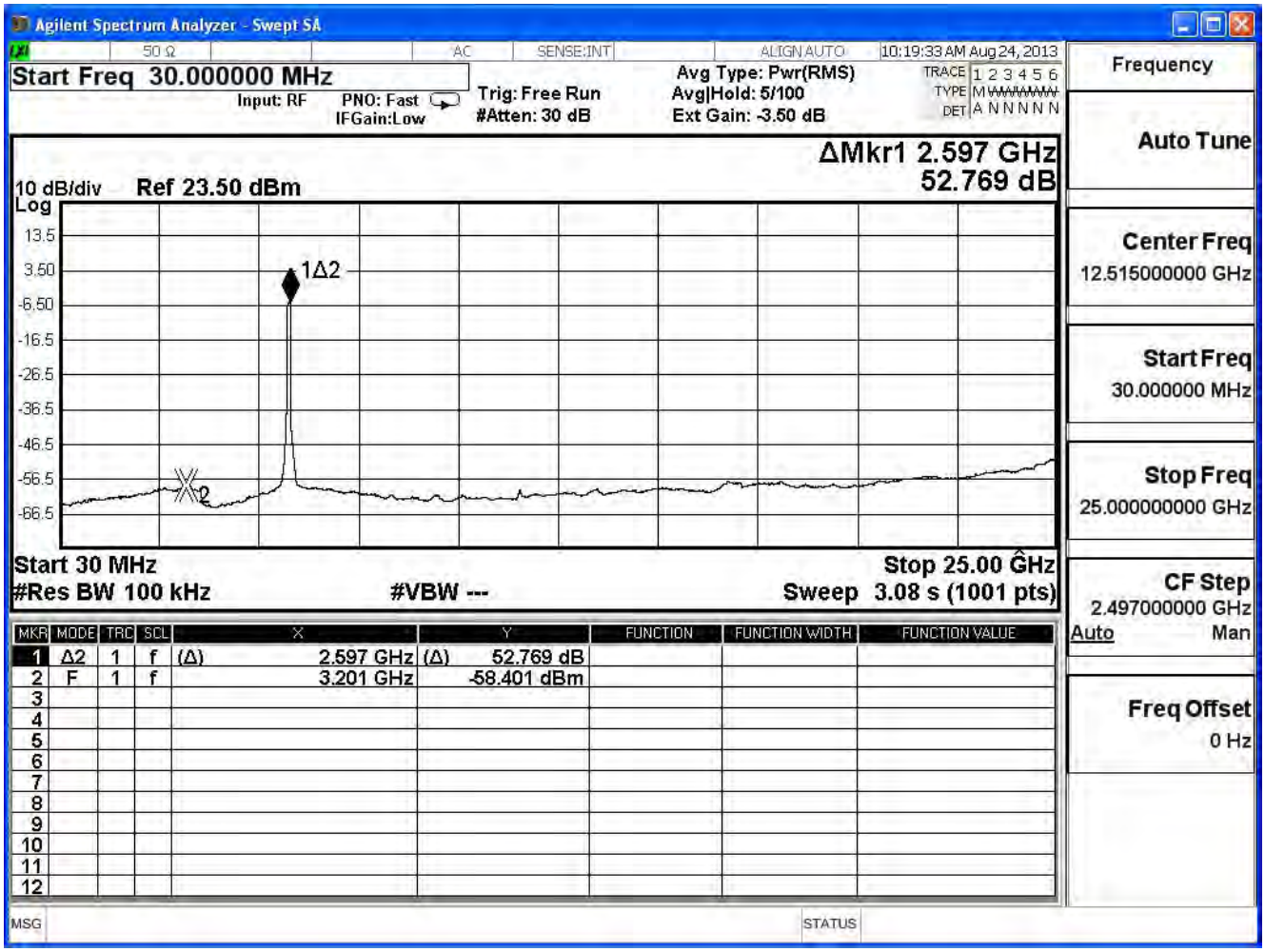


Channel 155 (5775MHz)



Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1:Transmit (CDD mode)		
Date of Test	2013/08/29	Test Site	SR7

5775MHz (30MHz~25GHz) -802.11ac(80MHz)-ANT 0



5775MHz (30MHz~25GHz) -802.11ac(80MHz)-ANT 1