

FCC Test Report

Product Name : 11N Wireless LAN CARD

Model No. : WMC-ND07D

FCC ID. : VGYAR9582

Applicant : DrayTek Corp.

Address : No.26 Fu Shing Rd., HuKou County,Hsin-Chu Industrial
Park,Hsin-Chu,Taiwan 303 R.O.C

Date of Receipt : 2013/02/23

Issued Date : 2013/05/17

Report No. : 132290R-RFUSP42V01

Report Version : V1.0



The test results relate only to the samples tested.

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

Test Report Certification

Issued Date : 2013/05/17

Report No. : 132290R-RFUSP42V01



Product Name : 11N Wireless LAN CARD
 Applicant : DrayTek Corp.
 Address : No.26 Fu Shing Rd., HuKou County,Hsin-Chu Industrial
 Park,Hsin-Chu,Taiwan 303 R.O.C
 Manufacturer : DrayTek Corp.
 Model No. : WMC-ND07D
 FCC ID. : VGYAR9582
 EUT Voltage : DC 3.3V \pm 5% from host equipment
 Trade Name : DrayTek
 Applicable Standard : FCC CFR Title 47 Part 15 Subpart C Section 15.247:2012
 ANSI C63.4: 2009
 Test Result : Complied

The test results relate only to the samples tested.

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Documented By :

(Carol Tsai / Adm. Specialist)

Tested By :

(JuBo Shen / Engineer)

Approved By :

(Roy Wang / 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/>

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

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1. General Information

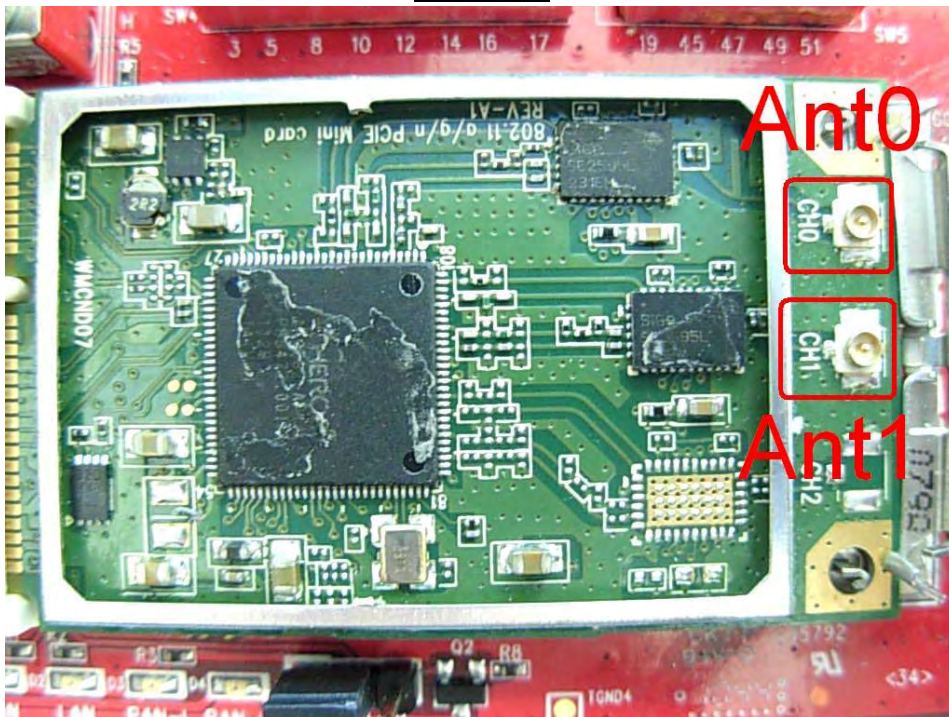
1.1. EUT Description

Product Name	11N Wireless LAN CARD	
Product Type	WLAN(2TX,2RX)	
Trade Name	DrayTek	
Model No.	WMC-ND07D	
Frequency Range/ Channel Number	IEEE 802.11b/g/ IEEE 802.11n (20MHz)_2.4GHz	2412~2462MHz / 11 Channels
	IEEE 802.11n (40MHz)_2.4GHz	2422~2452MHz / 7 Channels
	IEEE 802.11a/ IEEE 802.11n (20MHz)_5.8GHz	5745~5825MHz / 5 Channels
	IEEE 802.11n (40MHz)_5.8GHz	5755~5795MHz / 2 Channels
Type of Modulation	IEEE 802.11b	Direct Sequence Spread Spectrum
	IEEE 802.11a/g/n	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
Antenna Gain	2.4G: Ant0:1.95dBi, Ant1:1.95dBi 5.8G: Ant0:4.12dBi, Ant1:4.12dBi	
Antenna Type	Dipole Antenna	

ANT-TX / Rx & Bandwidth

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

2TX / 2RX



IEEE 802.11n

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

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

Table 1 – MCS parameters for TX Antenna number = 1

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

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

Table 2 – MCS parameters for TX Antenna number = 2

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

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

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

IEEE 802.11n (40MHz) - 2.4GHz

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

IEEE 802.11a & IEEE 802.11n (20MHz) - 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 (40MHz) - 5.8GHz

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

Note:

1. This device is a 11N Wireless LAN CARD including 2.4GHz b/g/n and 5GHz a/n (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: 132290R-RFUSP46V01.
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 132290R-RFUSP37V02 under Declaration of Conformity.

1.3. Test Mode

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

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

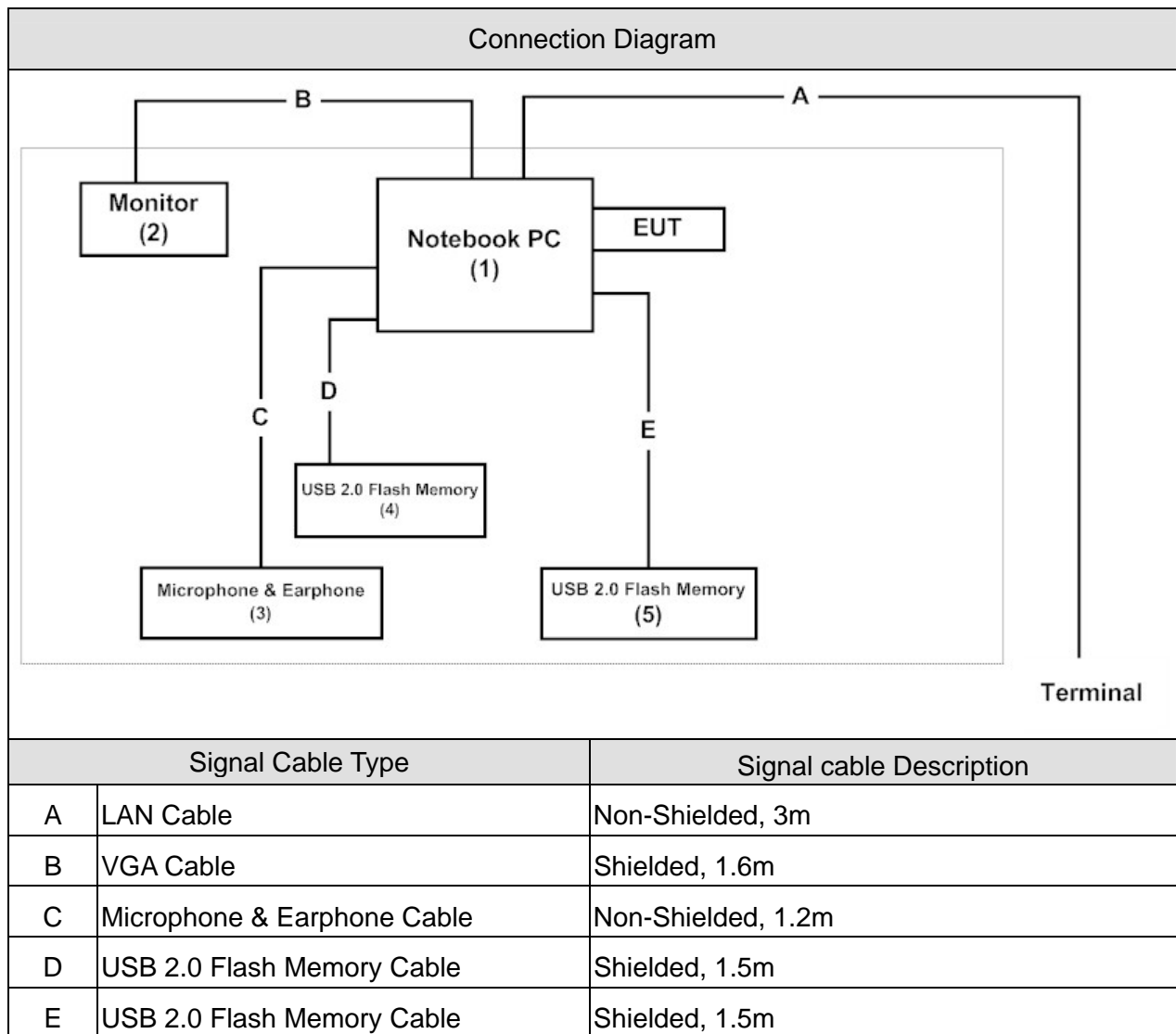
Test Items	Modulation	Channel	Antenna	Result
Conducted Emission	11n(40MHz)	6/159	0+1	Complies
Peak Power Output	a	149/ 157/ 165	0	Complies
	b/g	1/ 6/ 11	0	Complies
	11n(20MHz)	1/ 6/ 11/ 149/ 157/ 165	0+1	Complies
	11n(40MHz)	3/ 6/ 9/ 151/ 159	0+1	Complies
Radiated Emission	a	149/ 157/ 165	0	Complies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

1.4. Tested System Details

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

Product	Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
1 Notebook PC	HP	HSTNN-146C	CNU8253S1X	DoC	Non-Shielded, 1.8m
2 Monitor	CHI MEI	A170E1-09	3UC120954TA0029	DoC	Non-Shielded, 1.8m
3 Microphone & Earphone	TOKTO	SX-MI	N/A	DoC	--
4 USB 2.0 Flash Memory	Apacer	AH223	N/A	DoC	--
5 USB 2.0 Flash Memory	Apacer	AH223	N/A	DoC	--

1.5. Configuration of tested System



1.6. EUT Exercise Software

1	Setup the EUT as shown in Section 1.5.
2	Execute the“MFG_UI_AC56” 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.

1.7. 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 (DSSS)	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 (DSSS)	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 (DSSS)	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 (DSSS)	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 (DSSS)	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 (DSSS)	15 - 35	25
Humidity (%RH)		25 - 75	45
Barometric pressure (mbar)		860 - 1060	950-1000

2. Conducted Emission

2.1. Test Equipment

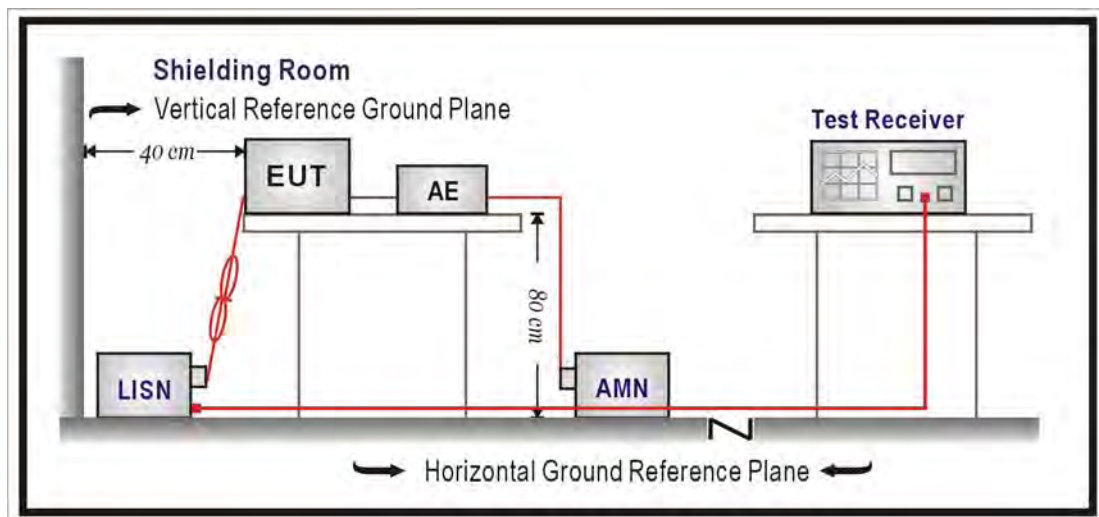
The following test equipments are used during the test:

Conducted Emission / SR2

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Artificial Mains Network	R&S	ENV4200	848411/010	2014/01/24
LISN	R&S	ENV216	100092	2013/08/21
Test Receiver	R&S	ESCS 30	825442/014	2013/08/07

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 C63.4: 2009 and tested according to DTS test procedure of Jan. 2012 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

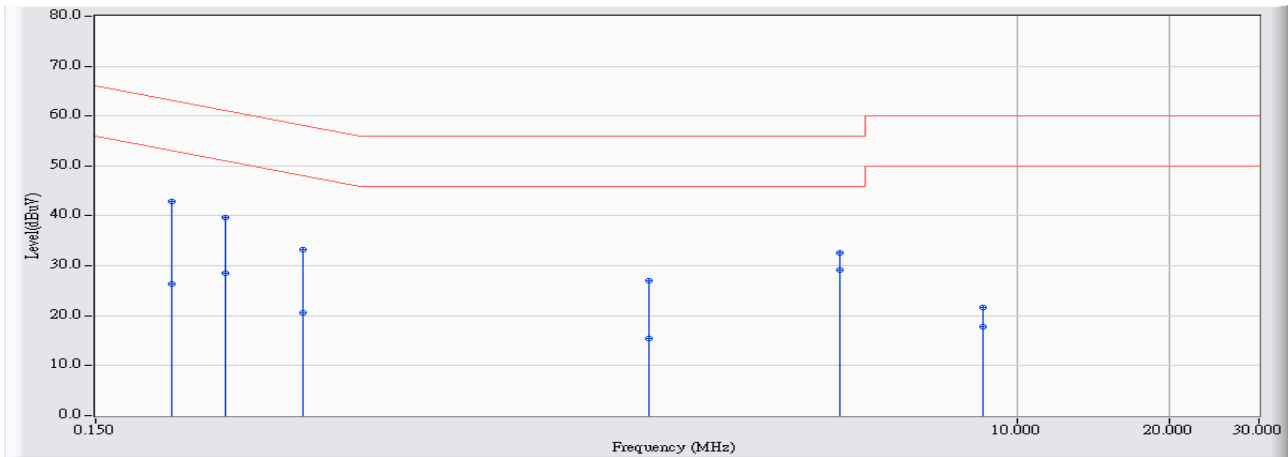
According to FCC Part 15 Subpart C Paragraph 15.207: 2012

2.6. Uncertainty

The measurement uncertainty is defined as ± 2.26 dB.

2.7. Test Result

Site : SR2	Time : 2013/05/01 - 15:11
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-3_0822 - Line1	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11 n 40MHz_CH06

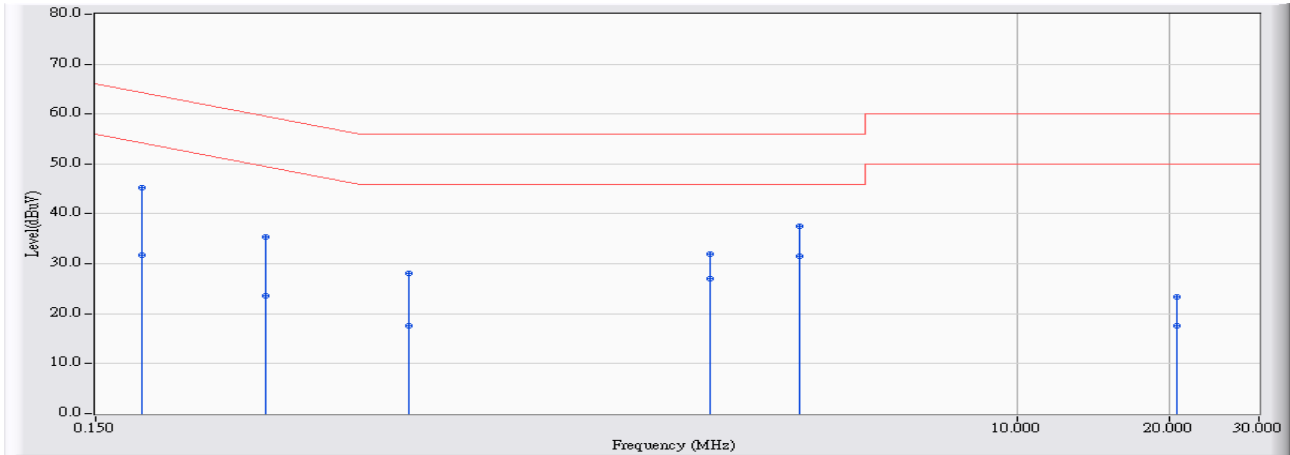


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.212	9.648	33.250	42.898	-20.209	63.107	QUASPEAK
2	0.212	9.648	16.650	26.298	-26.809	53.107	AVERAGE
3	0.271	9.664	30.020	39.684	-21.400	61.084	QUASPEAK
4	0.271	9.664	18.810	28.474	-22.610	51.084	AVERAGE
5	0.384	9.697	23.570	33.267	-24.918	58.184	QUASPEAK
6	0.384	9.697	10.940	20.637	-27.548	48.184	AVERAGE
7	1.861	9.835	17.290	27.125	-28.875	56.000	QUASPEAK
8	1.861	9.835	5.600	15.435	-30.565	46.000	AVERAGE
9	4.435	9.945	22.700	32.645	-23.355	56.000	QUASPEAK
10	* 4.435	9.945	19.200	29.145	-16.855	46.000	AVERAGE
11	8.564	10.069	11.690	21.759	-38.241	60.000	QUASPEAK
12	8.564	10.069	7.780	17.849	-32.151	50.000	AVERAGE

Note:

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

Site : SR2	Time : 2013/05/01 - 15:19
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-3_0822 - Line2	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11 n 40MHz_CH06

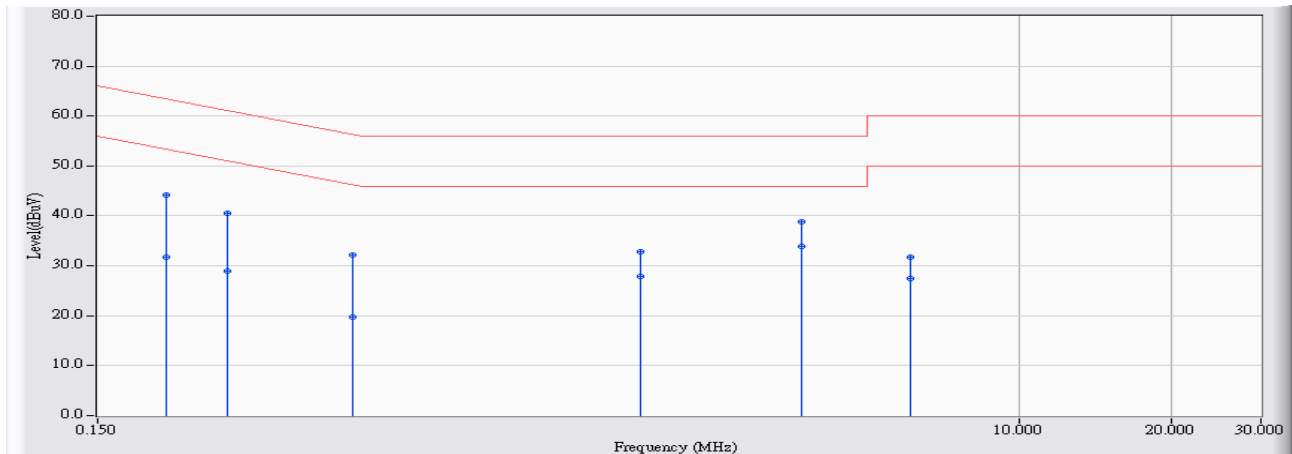


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.185	9.630	35.630	45.260	-18.991	64.251	QUASPEAK
2	0.185	9.630	22.090	31.720	-22.531	54.251	AVERAGE
3	0.326	9.664	25.700	35.364	-24.194	59.558	QUASPEAK
4	0.326	9.664	13.860	23.524	-26.034	49.558	AVERAGE
5	0.623	9.714	18.450	28.164	-27.836	56.000	QUASPEAK
6	0.623	9.714	7.920	17.634	-28.366	46.000	AVERAGE
7	2.470	9.851	22.150	32.000	-24.000	56.000	QUASPEAK
8	2.470	9.851	17.190	27.040	-18.960	46.000	AVERAGE
9	3.709	9.904	27.620	37.524	-18.476	56.000	QUASPEAK
10	* 3.709	9.904	21.540	31.444	-14.556	46.000	AVERAGE
11	20.599	10.196	13.080	23.276	-36.724	60.000	QUASPEAK
12	20.599	10.196	7.360	17.556	-32.444	50.000	AVERAGE

Note:

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

Site : SR2	Time : 2013/05/01 - 15:31
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-3_0822 - Line1	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11 n 40MHz

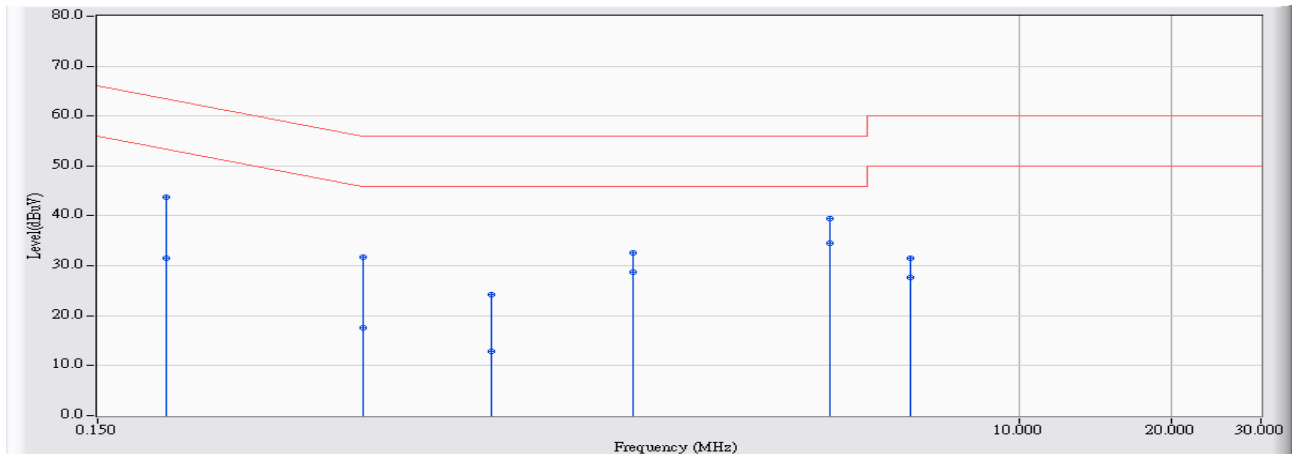


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.205	9.646	34.610	44.256	-19.162	63.418	QUASPEAK
2	0.205	9.646	22.090	31.736	-21.682	53.418	AVERAGE
3	0.271	9.664	30.850	40.514	-20.570	61.084	QUASPEAK
4	0.271	9.664	19.290	28.954	-22.130	51.084	AVERAGE
5	0.478	9.724	22.450	32.175	-24.197	56.372	QUASPEAK
6	0.478	9.724	9.950	19.675	-26.697	46.372	AVERAGE
7	1.783	9.826	23.090	32.916	-23.084	56.000	QUASPEAK
8	1.783	9.826	18.130	27.956	-18.044	46.000	AVERAGE
9	3.705	9.916	28.810	38.725	-17.275	56.000	QUASPEAK
10	* 3.705	9.916	23.980	33.895	-12.105	46.000	AVERAGE
11	6.064	9.998	21.660	31.658	-28.342	60.000	QUASPEAK
12	6.064	9.998	17.560	27.558	-22.442	50.000	AVERAGE

Note:

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

Site : SR2	Time : 2013/05/01 - 15:40
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-3_0822 - Line2	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11 n 40MHz



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.205	9.635	34.110	43.745	-19.673	63.418	QUASPEAK
2	0.205	9.635	21.810	31.445	-21.973	53.418	AVERAGE
3	0.502	9.710	21.960	31.670	-24.330	56.000	QUASPEAK
4	0.502	9.710	7.830	17.540	-28.460	46.000	AVERAGE
5	0.904	9.718	14.460	24.178	-31.822	56.000	QUASPEAK
6	0.904	9.718	3.200	12.918	-33.082	46.000	AVERAGE
7	1.716	9.798	22.720	32.519	-23.481	56.000	QUASPEAK
8	1.716	9.798	19.000	28.799	-17.201	46.000	AVERAGE
9	4.213	9.927	29.640	39.567	-16.433	56.000	QUASPEAK
10	* 4.213	9.927	24.650	34.577	-11.423	46.000	AVERAGE
11	6.064	9.999	21.620	31.619	-28.381	60.000	QUASPEAK
12	6.064	9.999	17.610	27.609	-22.391	50.000	AVERAGE

Note:

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

3. Peak Power Output

3.1. Test Equipment

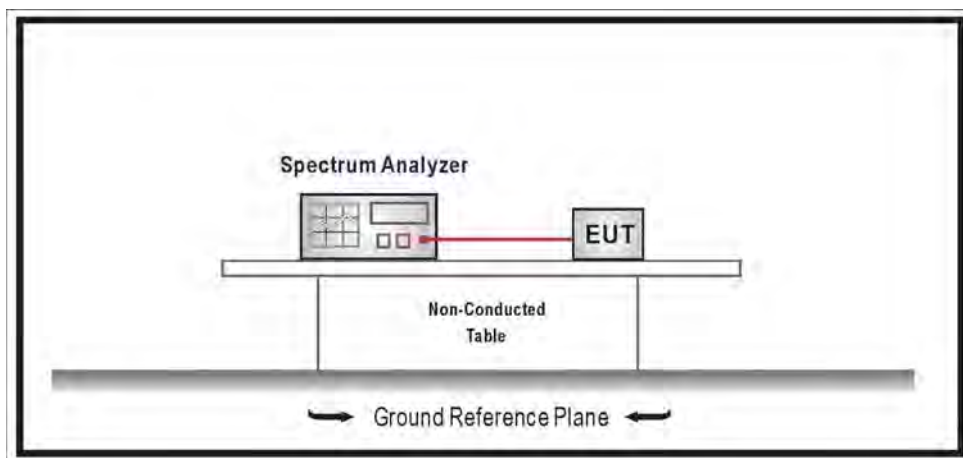
The following test equipments are used during the test:

Peak Power / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
EXA Signal Analyzer	Agilent	N9010A-EXA	US47140172	2013/07/31

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 Jan. 2012 KDB558074, Section 5.2.1.2 Measurement Procedure PK2 for compliance 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: 2012

3.6. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB.

3.7. Test Result

Product	11N Wireless LAN CARD		
Test Item	Peak Power Output		
Test Mode	Transmit		
Date of Test	2013/04/24	Test Site	SR7

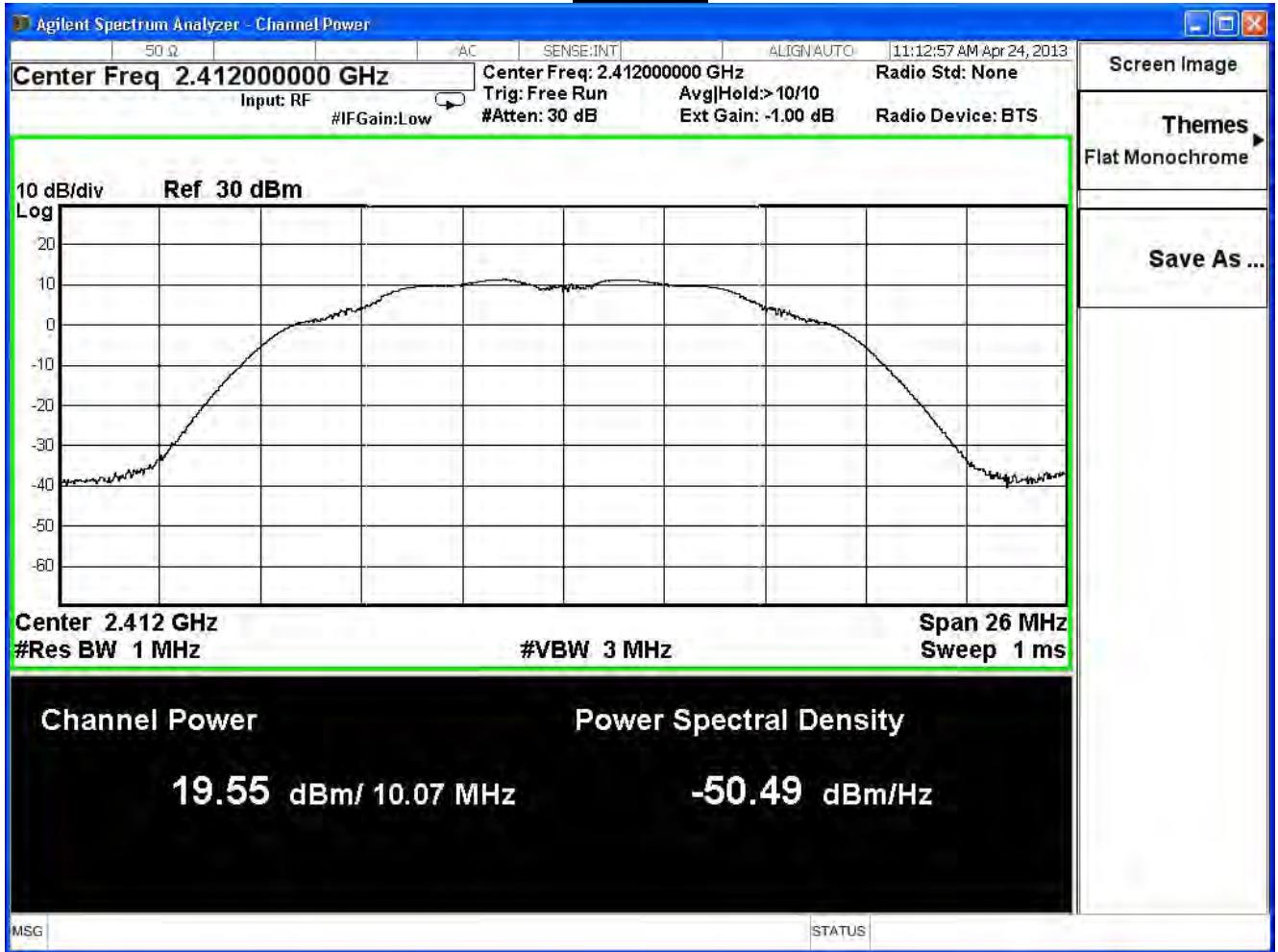
IEEE 802.11b				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	19.55	30	Pass
6	2437	19.36	30	Pass
11	2462	19.88	30	Pass

The worst emission of data rate is 1Mbps.

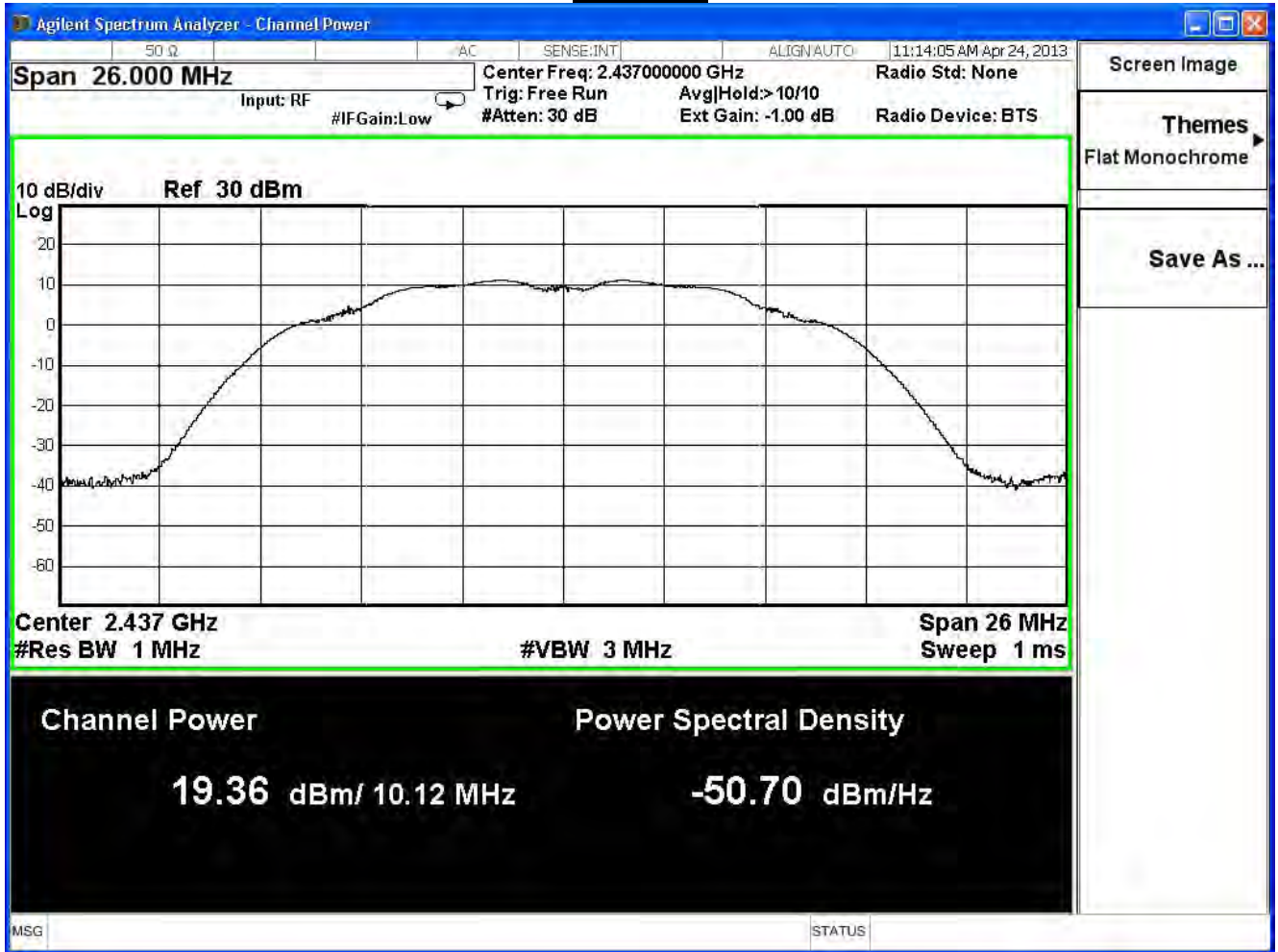
Peak Power Output Value (dBm)						
Channel No.	Frequency (MHz)	Data Rate				Required Limit
		1	2	5.5	11	
1	2412	19.55	--	--	--	1 Watt=30dBm
6	2437	19.36	19.35	19.34	19.33	1 Watt=30dBm
11	2462	19.88	--	--	--	1 Watt=30dBm

Note: Measure Level =Reading value + cable loss

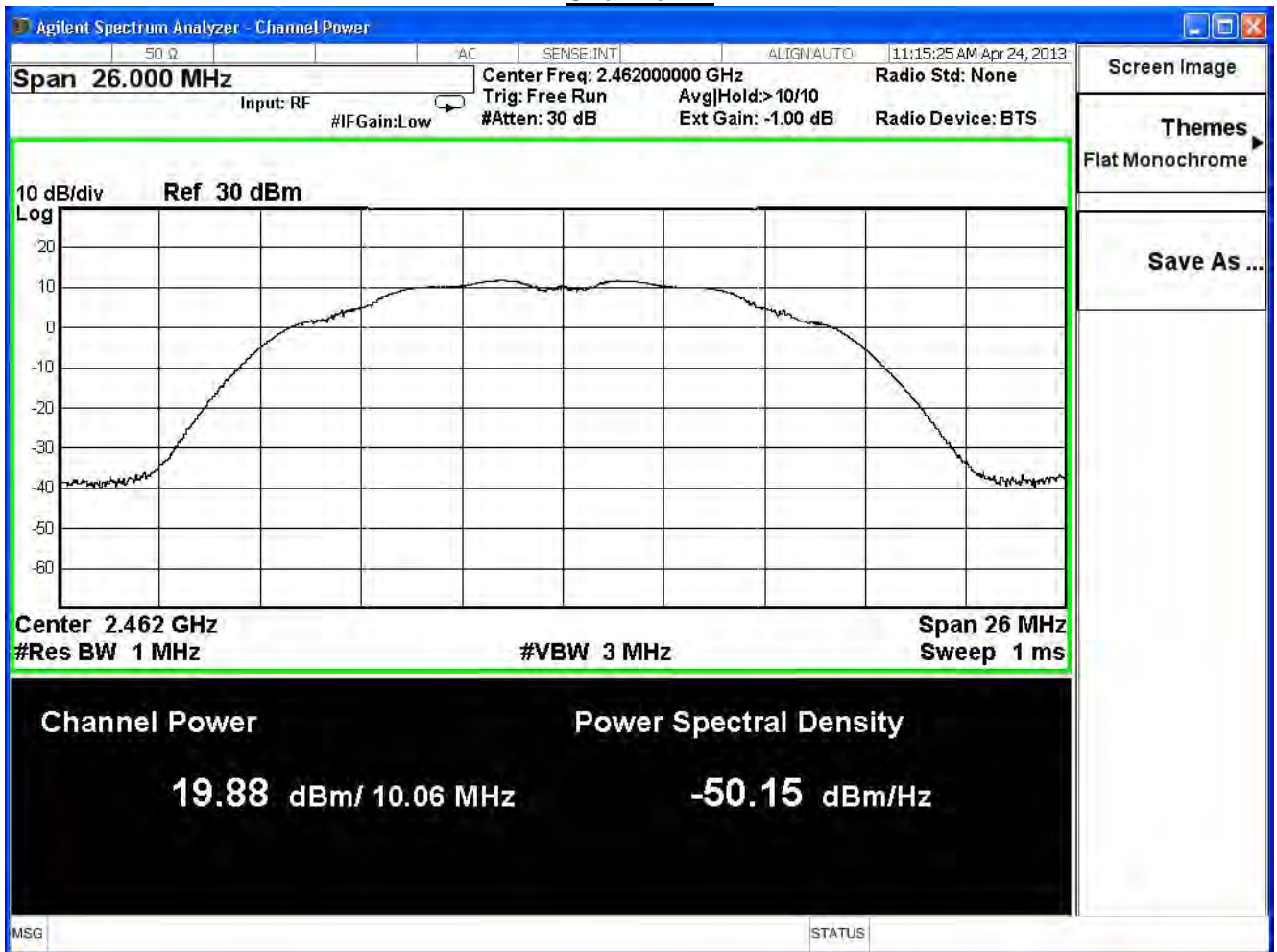
Channel 1



Channel 6



Channel 11



Product	11N Wireless LAN CARD		
Test Item	Peak Power Output		
Test Mode	Transmit		
Date of Test	2013/04/24	Test Site	SR7

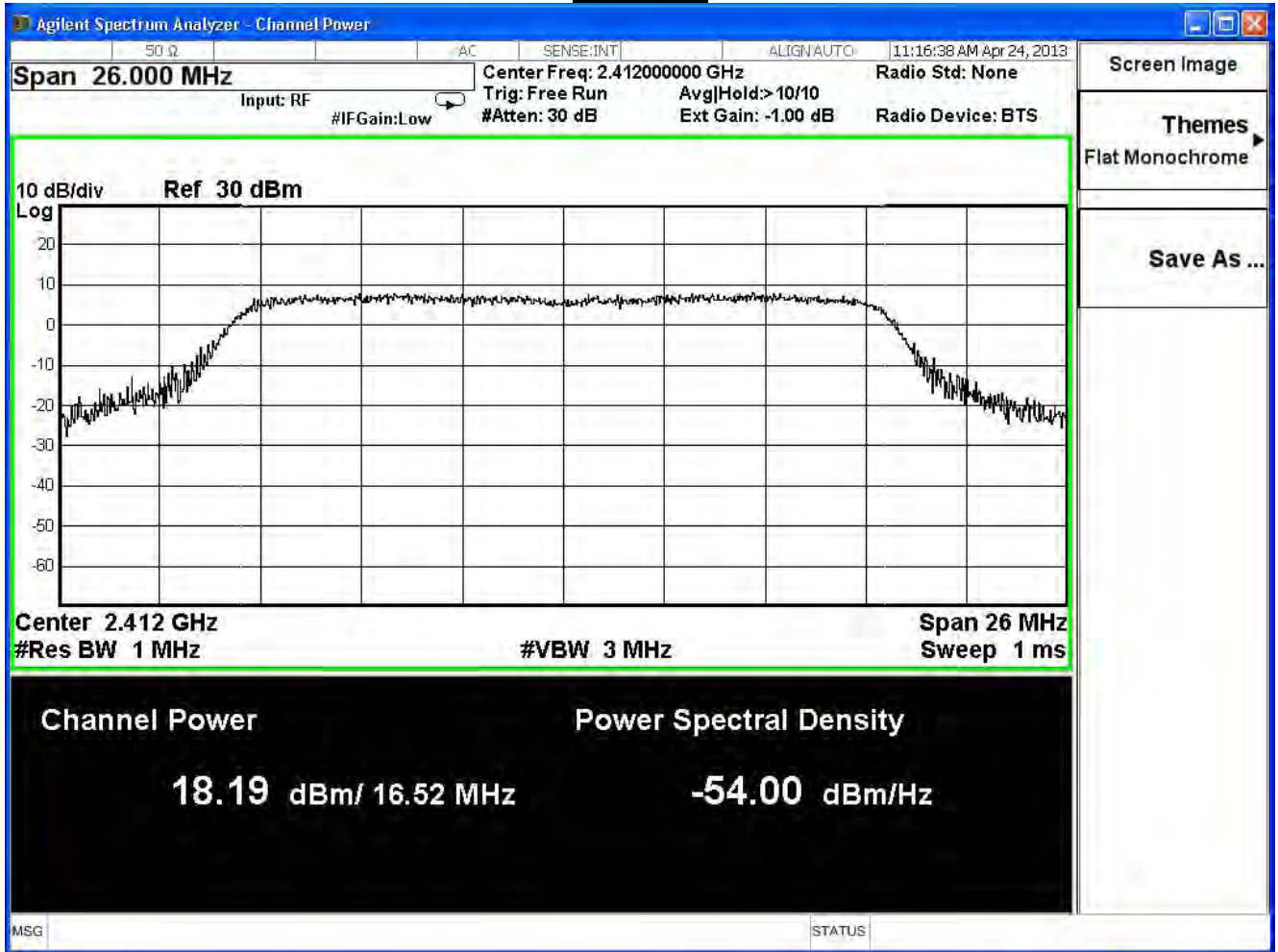
IEEE 802.11g				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	18.19	30	Pass
6	2437	19.86	30	Pass
11	2462	16.43	30	Pass

The worst emission of data rate is 6Mbps.

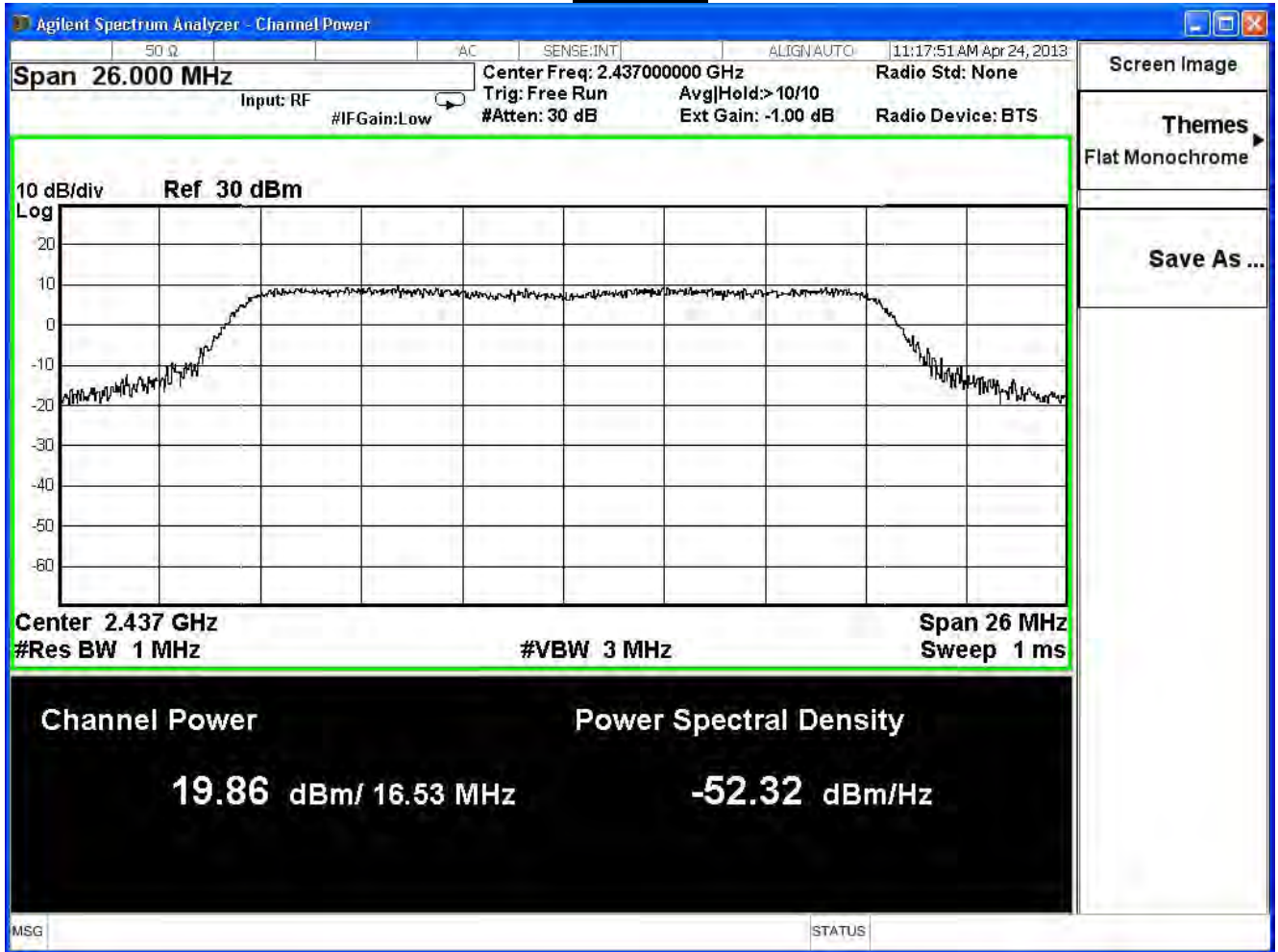
Peak Power Output Value(dBm)									
Channel No.	Frequency (MHz)	Data Rate (Mbps)							Required Limit
		6	12	18	24	36	48	54	
1	2412	18.19	--	--	--	--	--	--	1 Watt=30dBm
6	2437	19.86	19.85	19.84	19.83	19.82	19.81	19.80	1 Watt=30dBm
11	2462	16.43	--	--	--	--	--	--	1 Watt=30dBm

Note: Measure Level =Reading value + cable loss

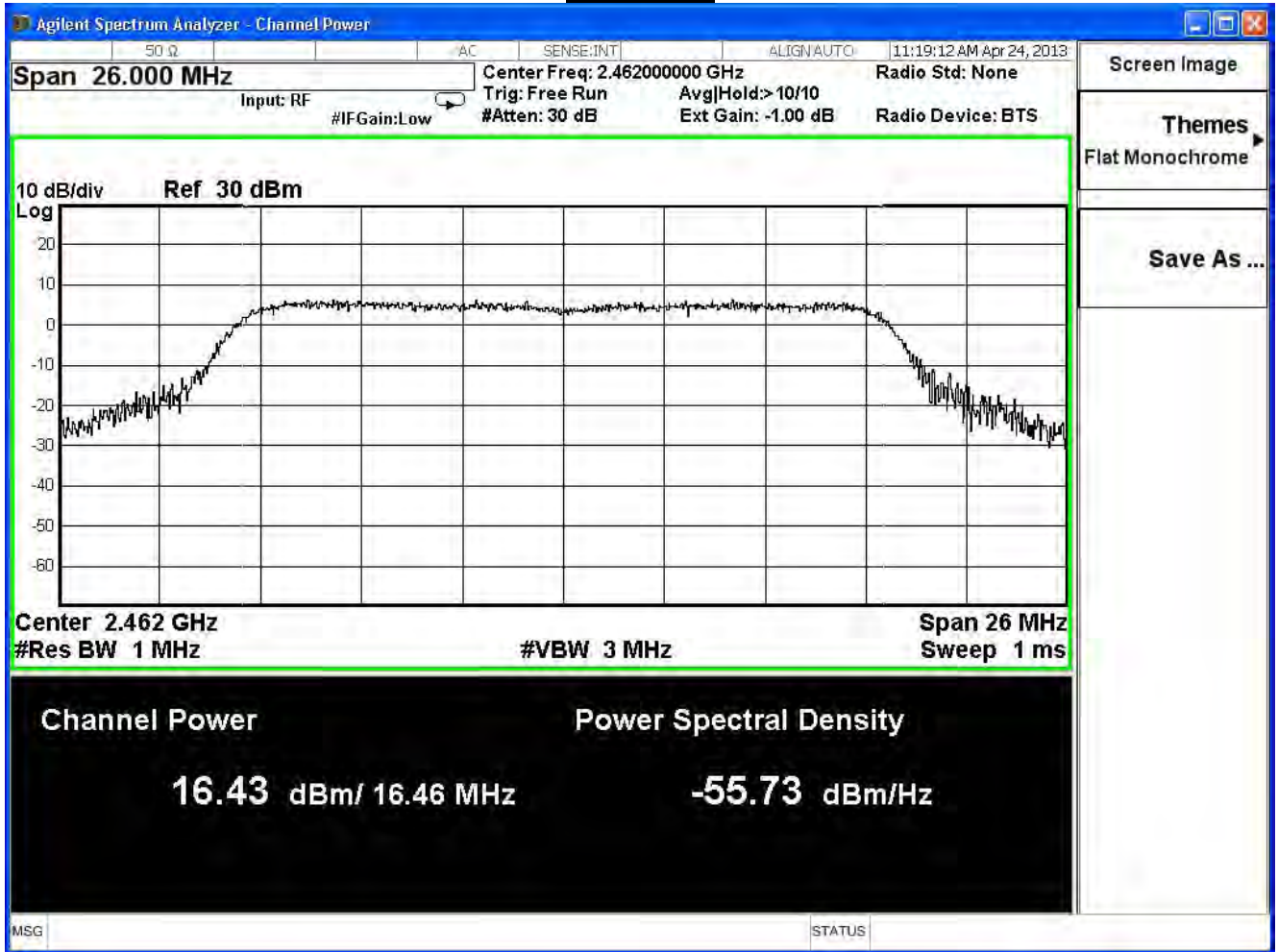
Channel 1



Channel 6



Channel 11



Product	11N Wireless LAN CARD		
Test Item	Peak Power Output		
Test Mode	Transmit		
Date of Test	2013/04/24	Test Site	SR7

IEEE 802.11n 20MHz (ANT 0)

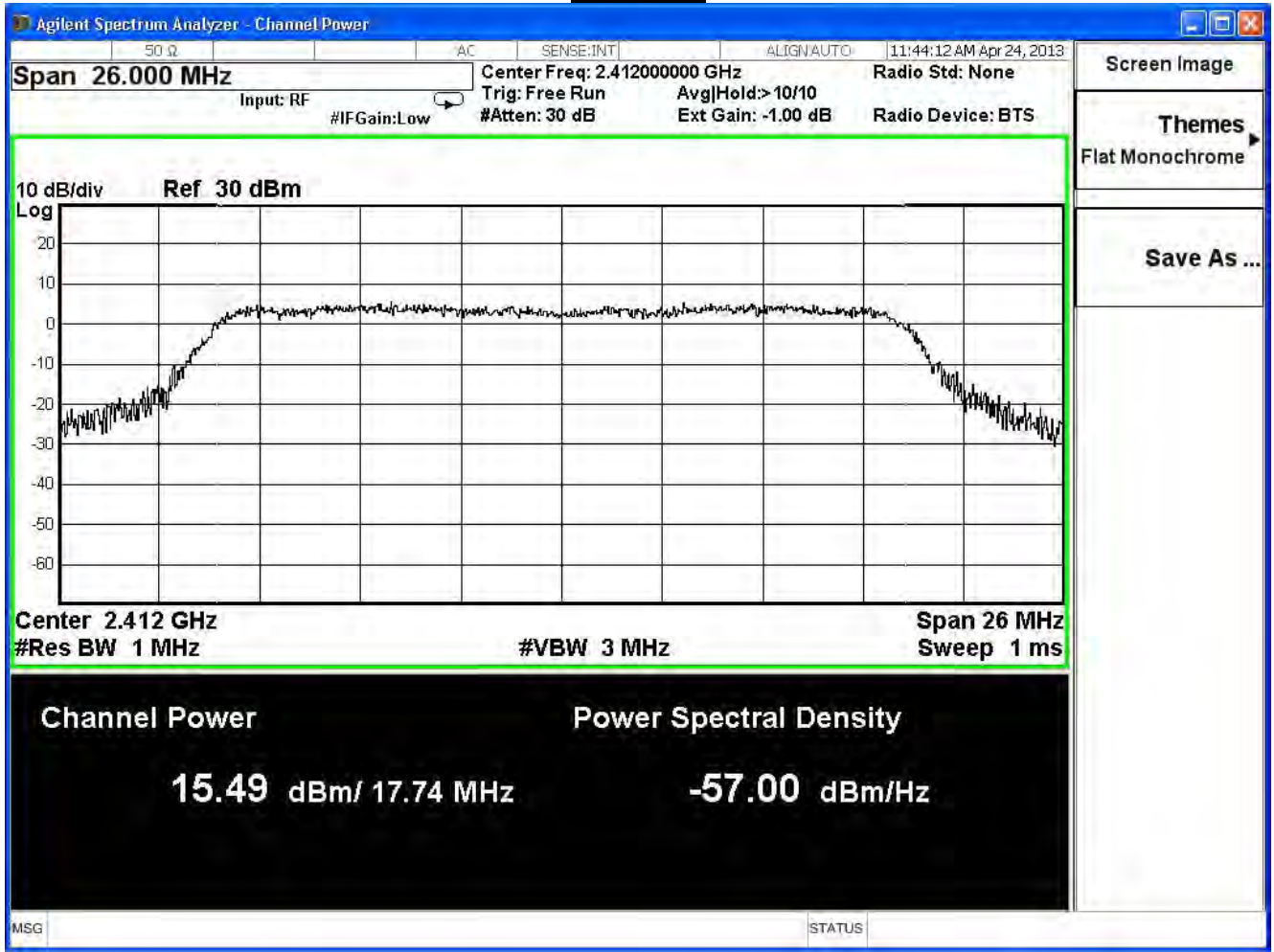
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	15.49	30	Pass
6	2437	16.23	30	Pass
11	2462	14.39	30	Pass

The worst emission of data rate is 13 Mbps.

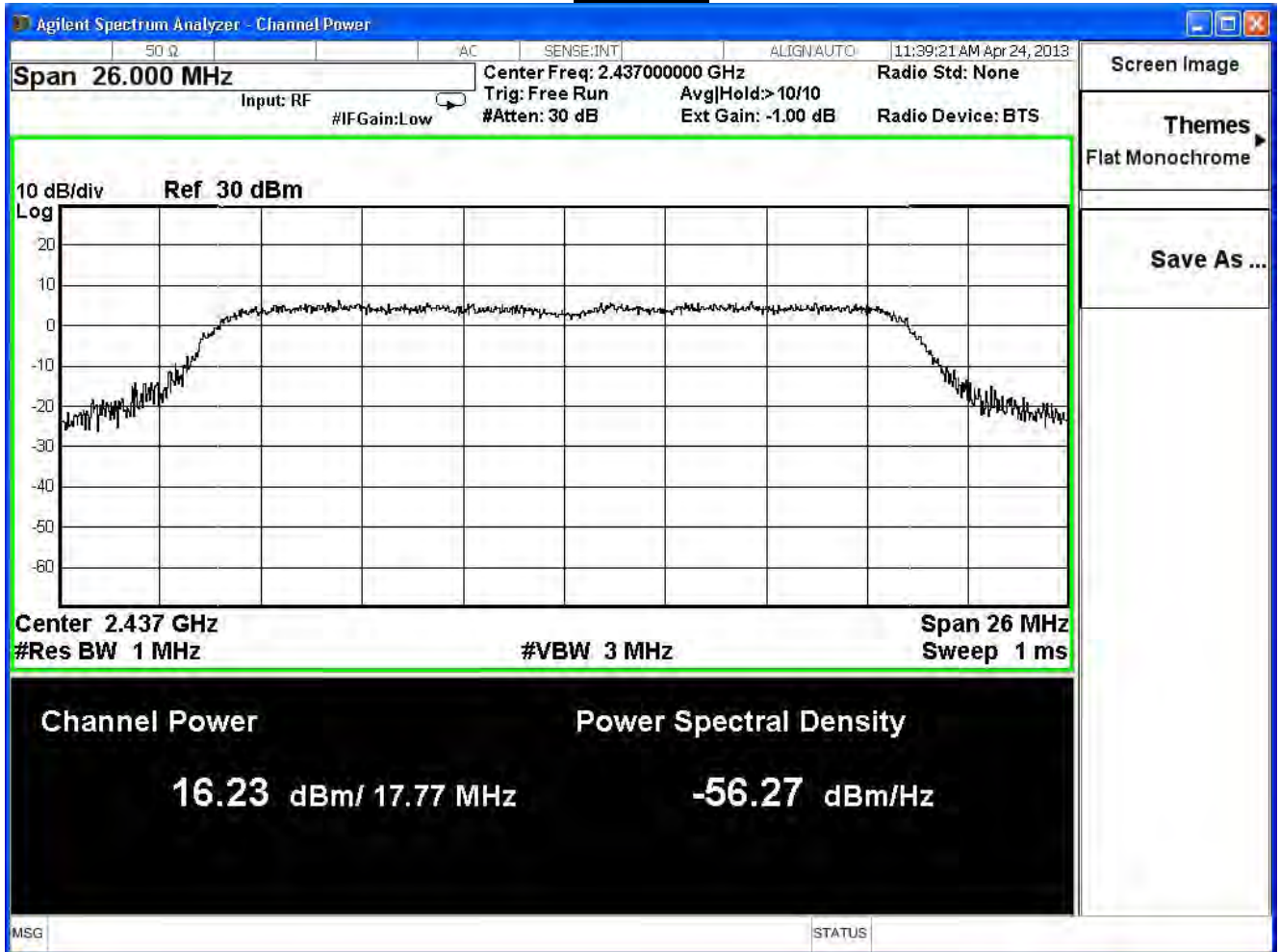
Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13	26	39	52	78	104	117	130	
1	2412	15.49	--	--	--	--	--	--	--	30
6	2437	16.23	16.22	16.21	16.20	16.19	16.18	16.17	16.16	30
11	2462	14.39	--	--	--	--	--	--	--	30

Note: Measure Level =Reading value + cable loss

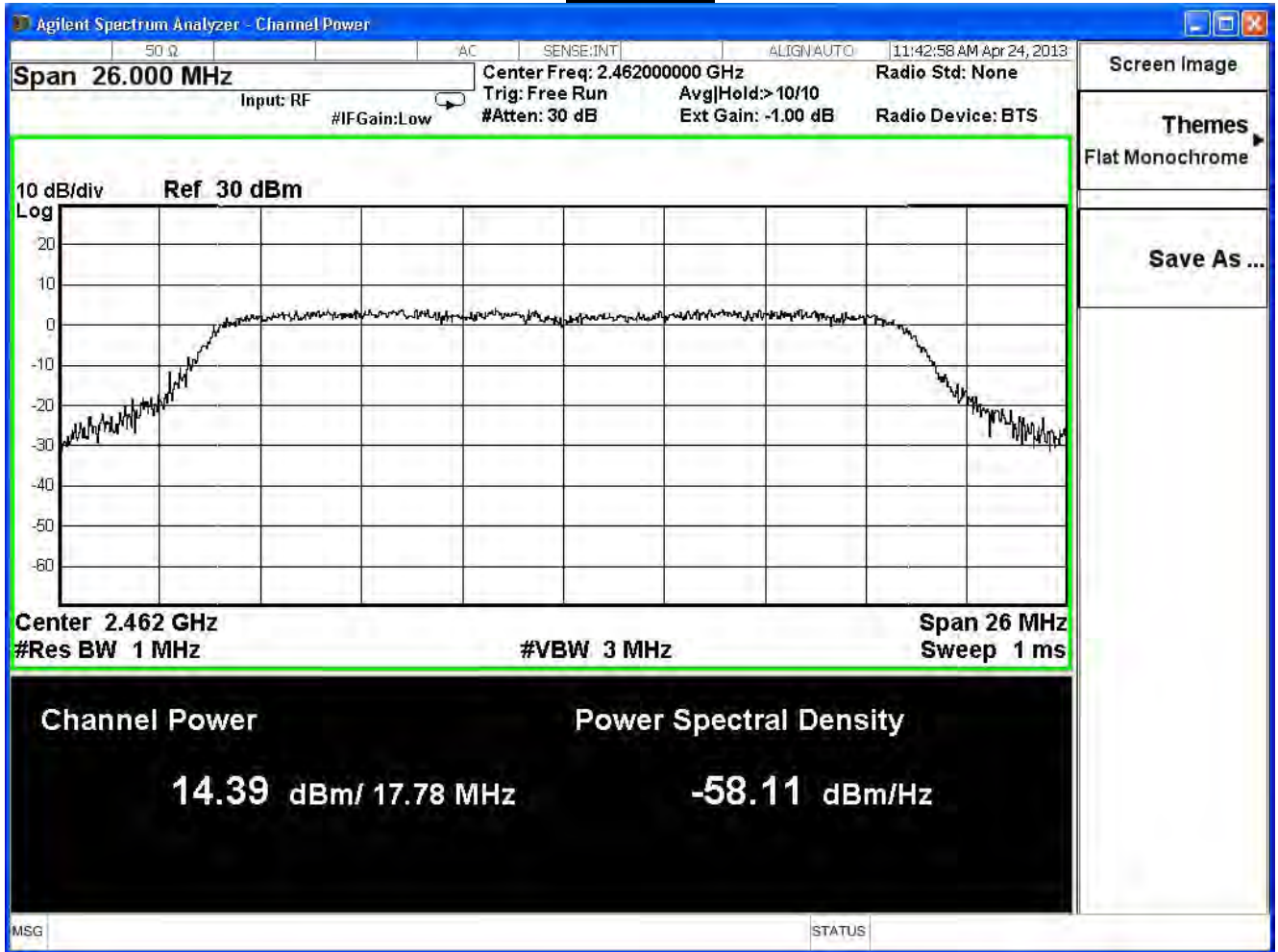
Channel 1



Channel 6



Channel 11



Product	11N Wireless LAN CARD		
Test Item	Peak Power Output		
Test Mode	Transmit		
Date of Test	2013/04/24	Test Site	SR7

IEEE 802.11n 20MHz (ANT 1)

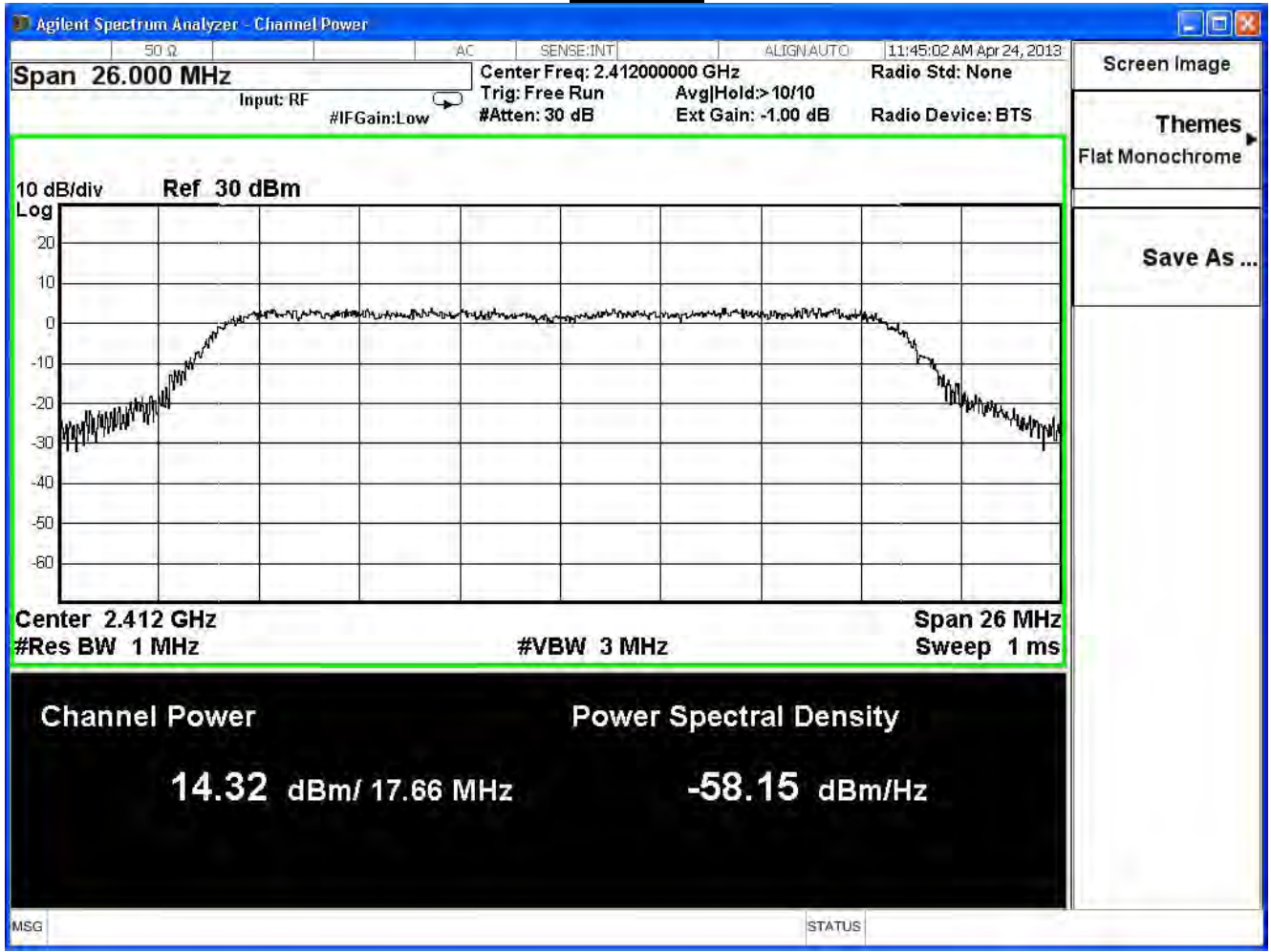
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	14.32	30	Pass
6	2437	17.95	30	Pass
11	2462	14.52	30	Pass

The worst emission of data rate is 13Mbps.

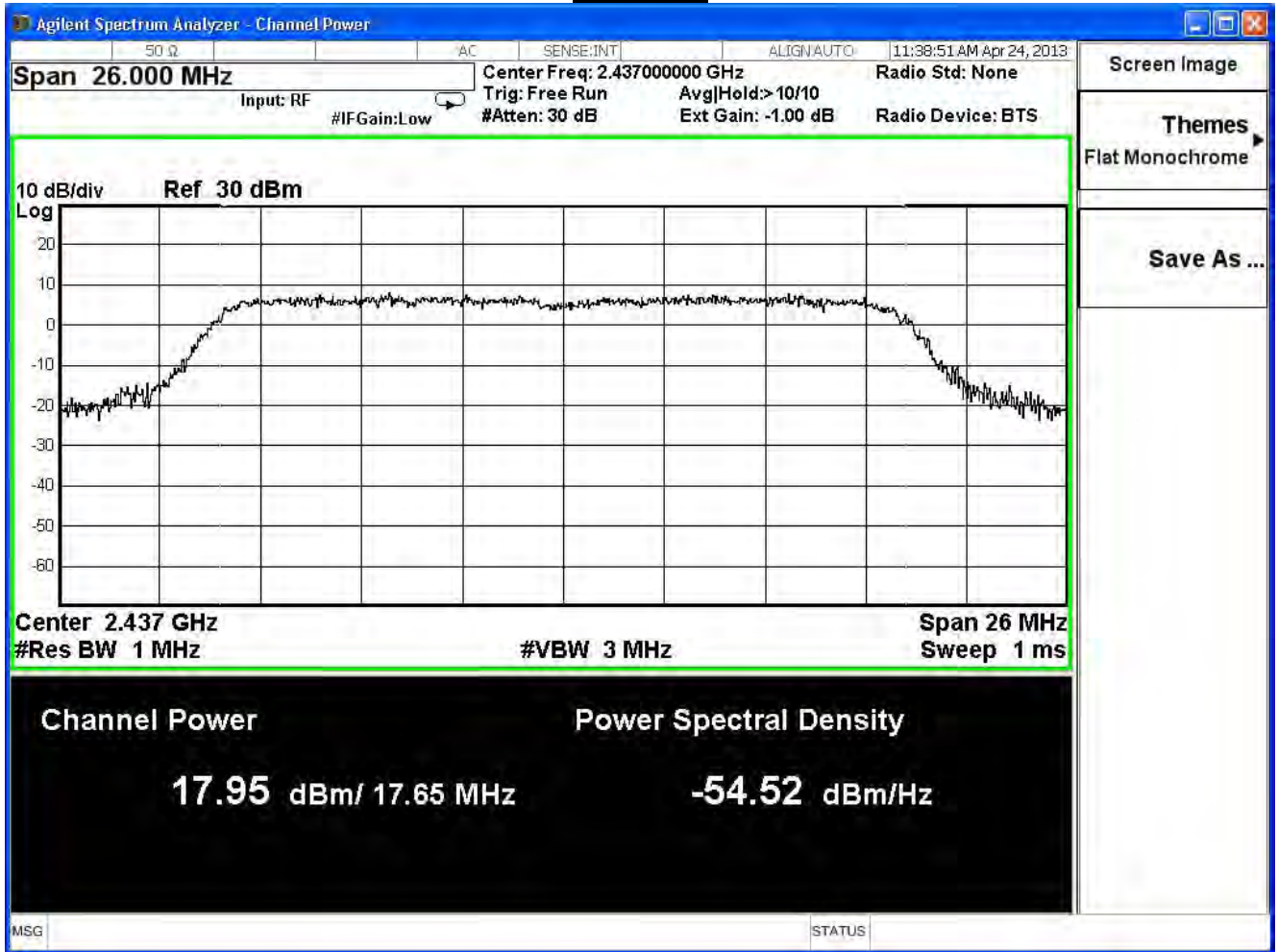
Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13	26	39	52	78	104	117	130	
1	2412	14.32	--	--	--	--	--	--	--	30
6	2437	17.95	17.94	17.93	17.92	17.91	17.90	17.69	17.68	30
11	2462	14.52	--	--	--	--	--	--	--	30

Note: Measure Level =Reading value + cable loss

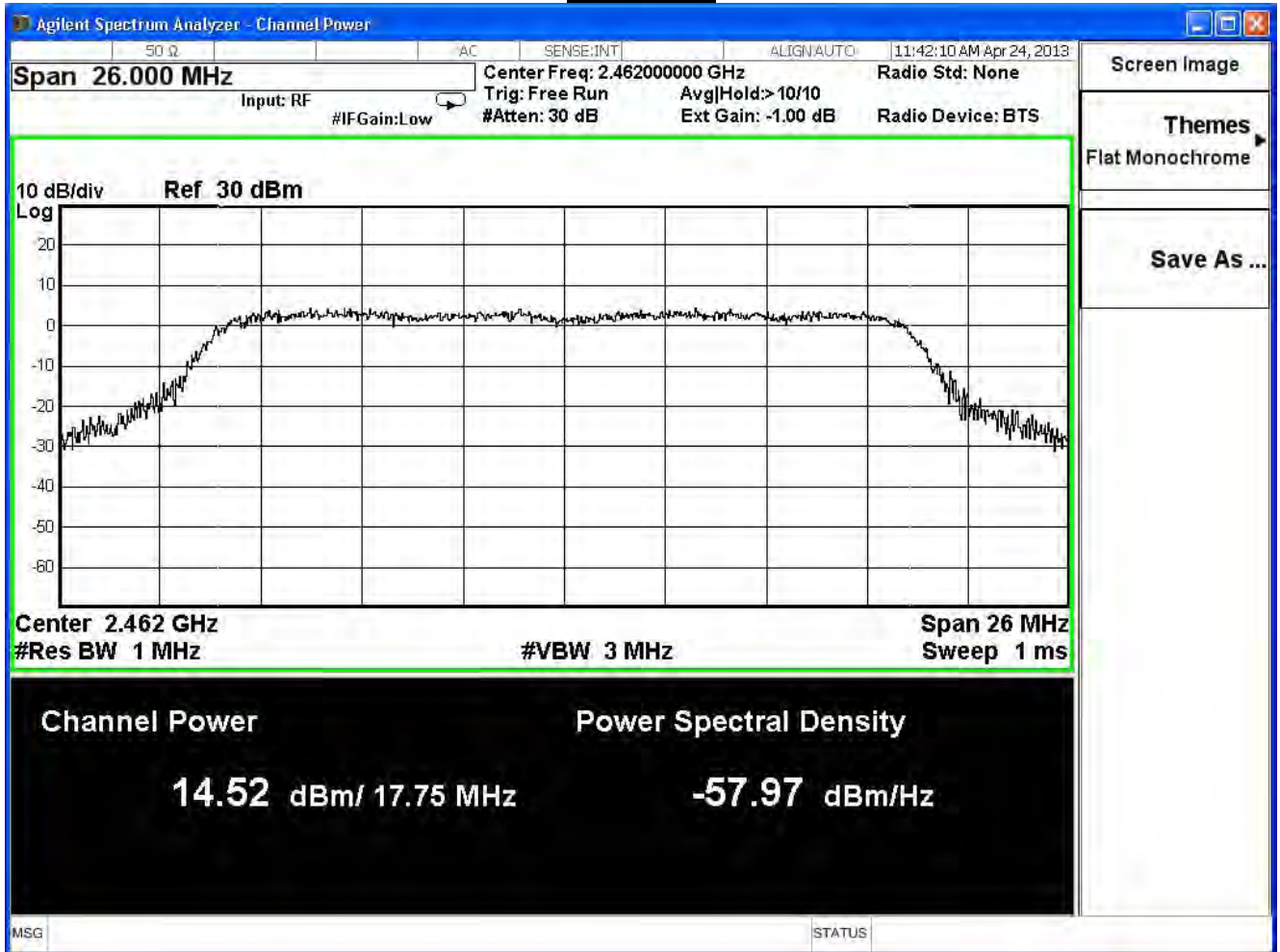
Channel 1



Channel 6



Channel 11



Product	11N Wireless LAN CARD		
Test Item	Peak Power Output		
Test Mode	Transmit		
Date of Test	2013/04/24	Test Site	SR7

IEEE 802.11n 20MHz (ANT 0+1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	17.95	30	Pass
6	2437	20.18	30	Pass
11	2462	17.47	30	Pass

Note: Measure Level =Reading value + cable loss

Product	11N Wireless LAN CARD		
Test Item	Peak Power Output		
Test Mode	Transmit		
Date of Test	2013/04/24	Test Site	SR7

IEEE802.11n 40MHz(ANT 0)

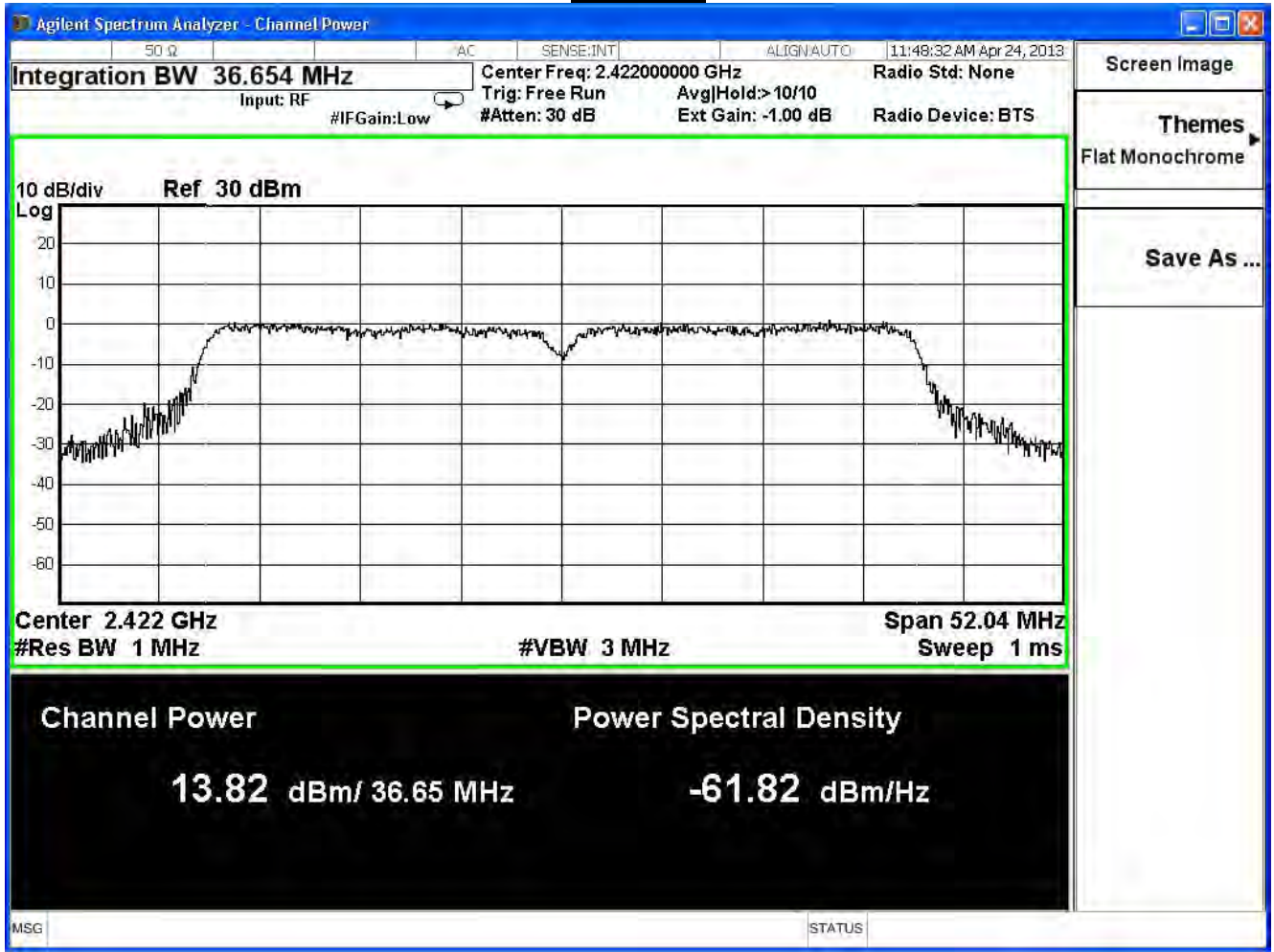
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	13.82	30	Pass
6	2437	15.17	30	Pass
9	2452	12.51	30	Pass

The worst emission of data rate is 27Mbps

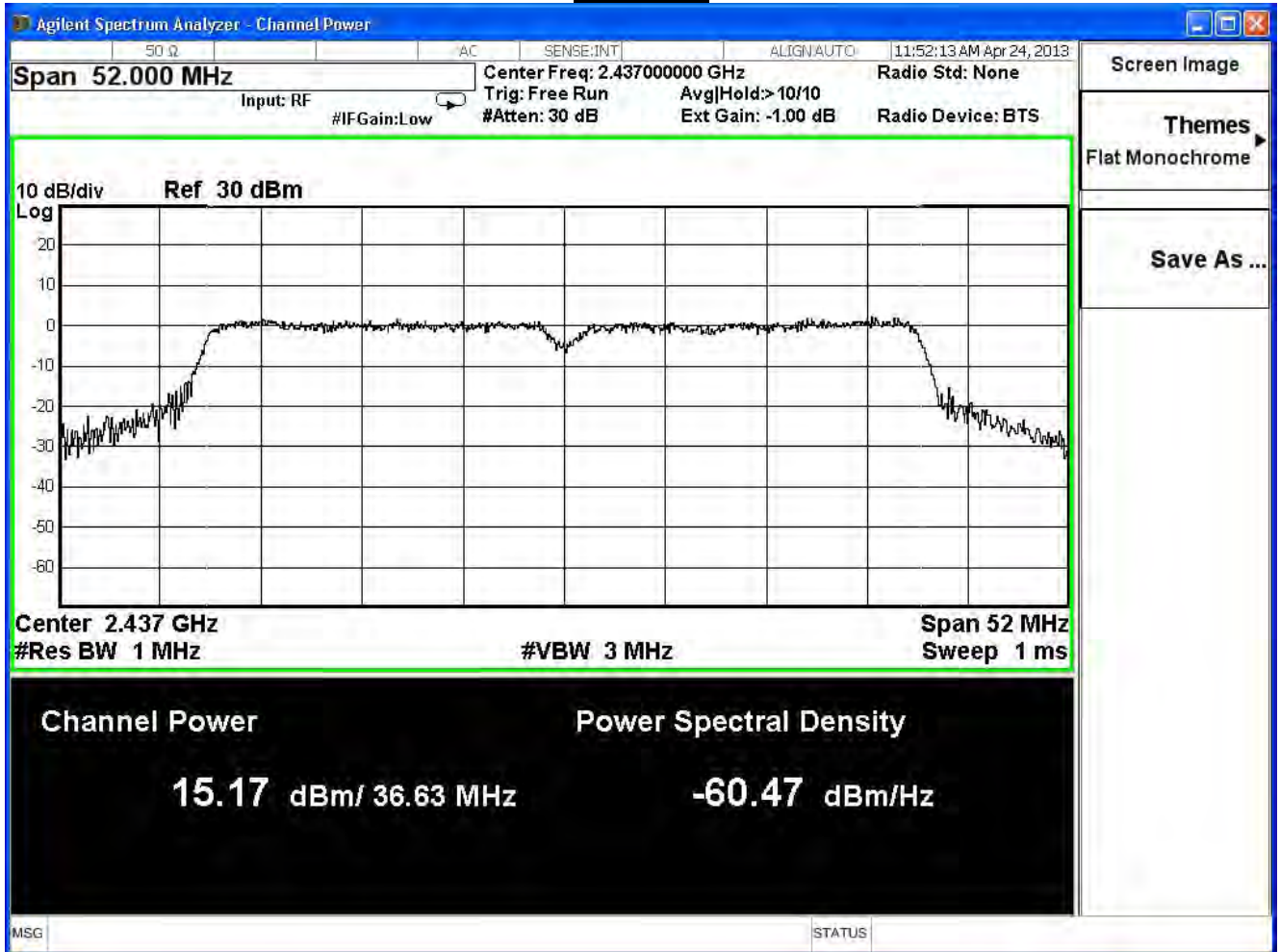
Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		27	54	81	108	162	216	243	270	
3	2422	13.82	--	--	--	--	--	--	--	30dBm
6	2437	15.17	15.16	15.15	15.14	15.13	15.12	15.11	15.10	30dBm
9	2452	12.51	--	--	--	--	--	--	--	30dBm

Note: Measure Level =Reading value + cable loss

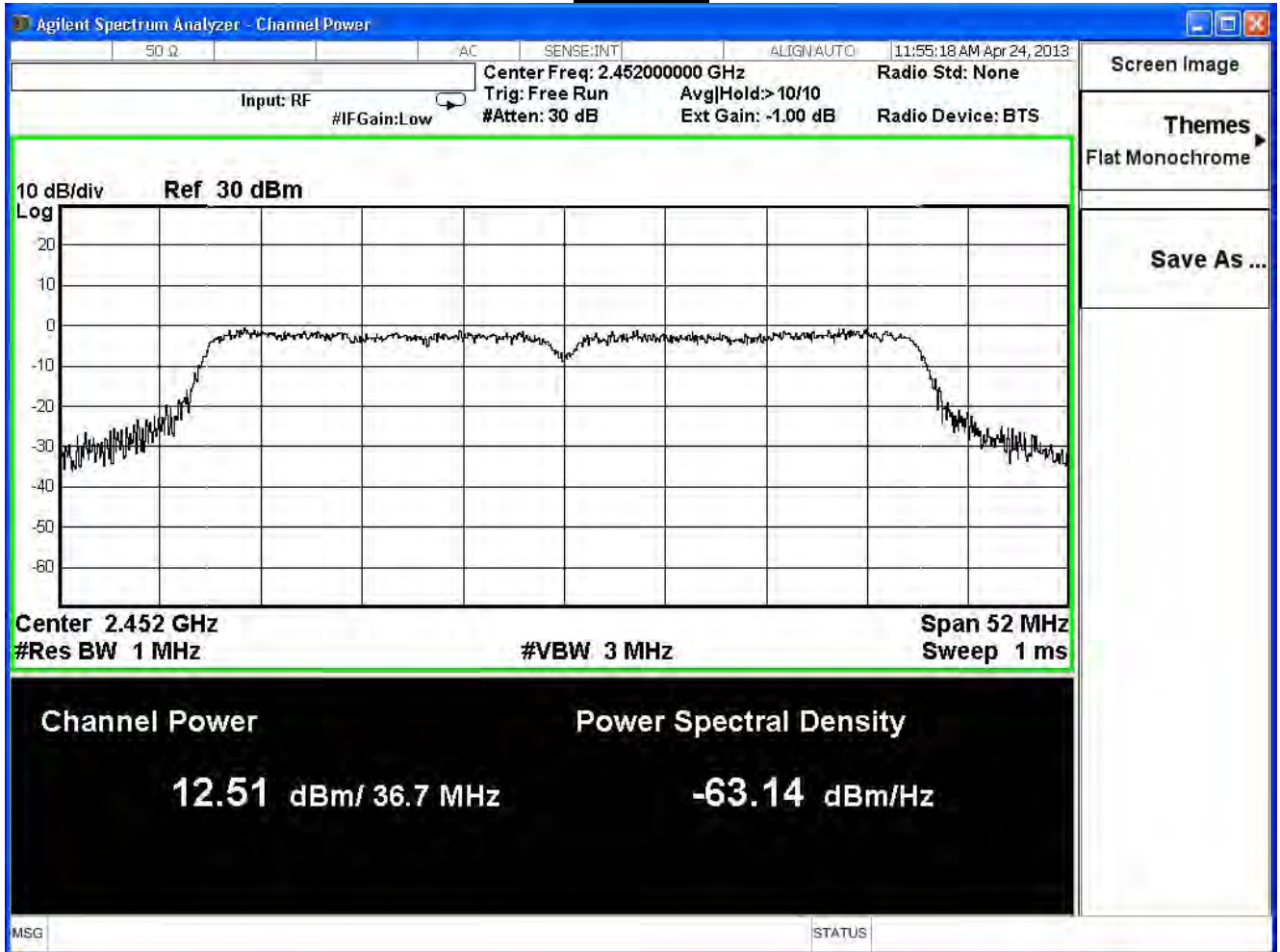
Channel 3



Channel 6



Channel 9



Product	11N Wireless LAN CARD		
Test Item	Peak Power Output		
Test Mode	Transmit		
Date of Test	2013/04/24	Test Site	SR7

IEEE802.11n 40MHz(ANT 1)

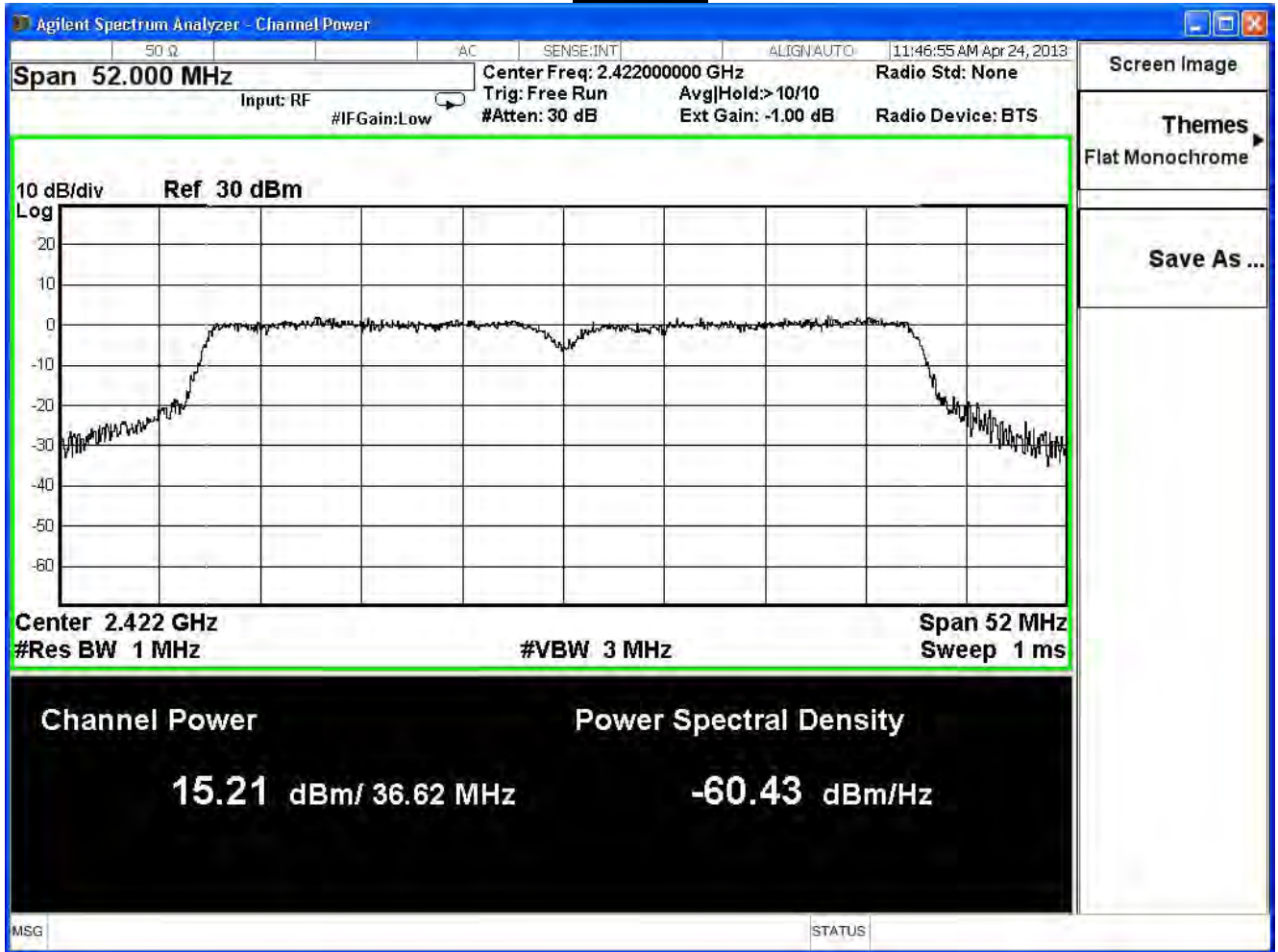
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	15.21	30	Pass
6	2437	15.58	30	Pass
9	2452	14.59	30	Pass

The worst emission of data rate is 27Mbps

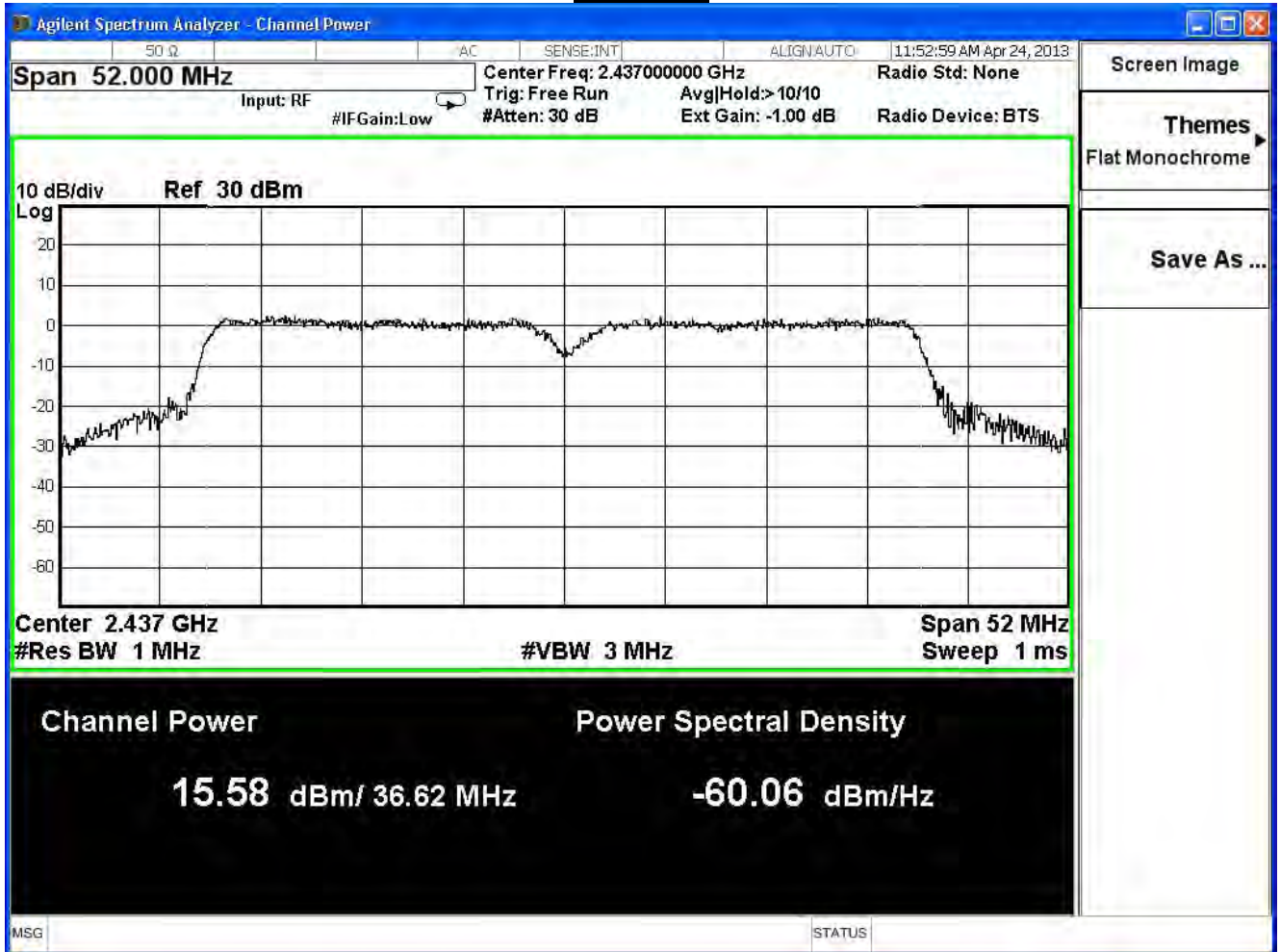
		Peak Power Output (dBm)								Required Limit
MCS Index		8	9	10	11	12	13	14	15	
Channel No	Frequency (MHz)	Data Rate								
		27	54	81	108	162	216	243	270	
3	2422	15.21	--	--	--	--	--	--	--	30dBm
6	2437	15.58	15.57	15.56	15.55	15.54	15.53	15.52	15.51	30dBm
9	2452	14.59	--	--	--	--	--	--	--	30dBm

Note: Measure Level =Reading value + cable loss

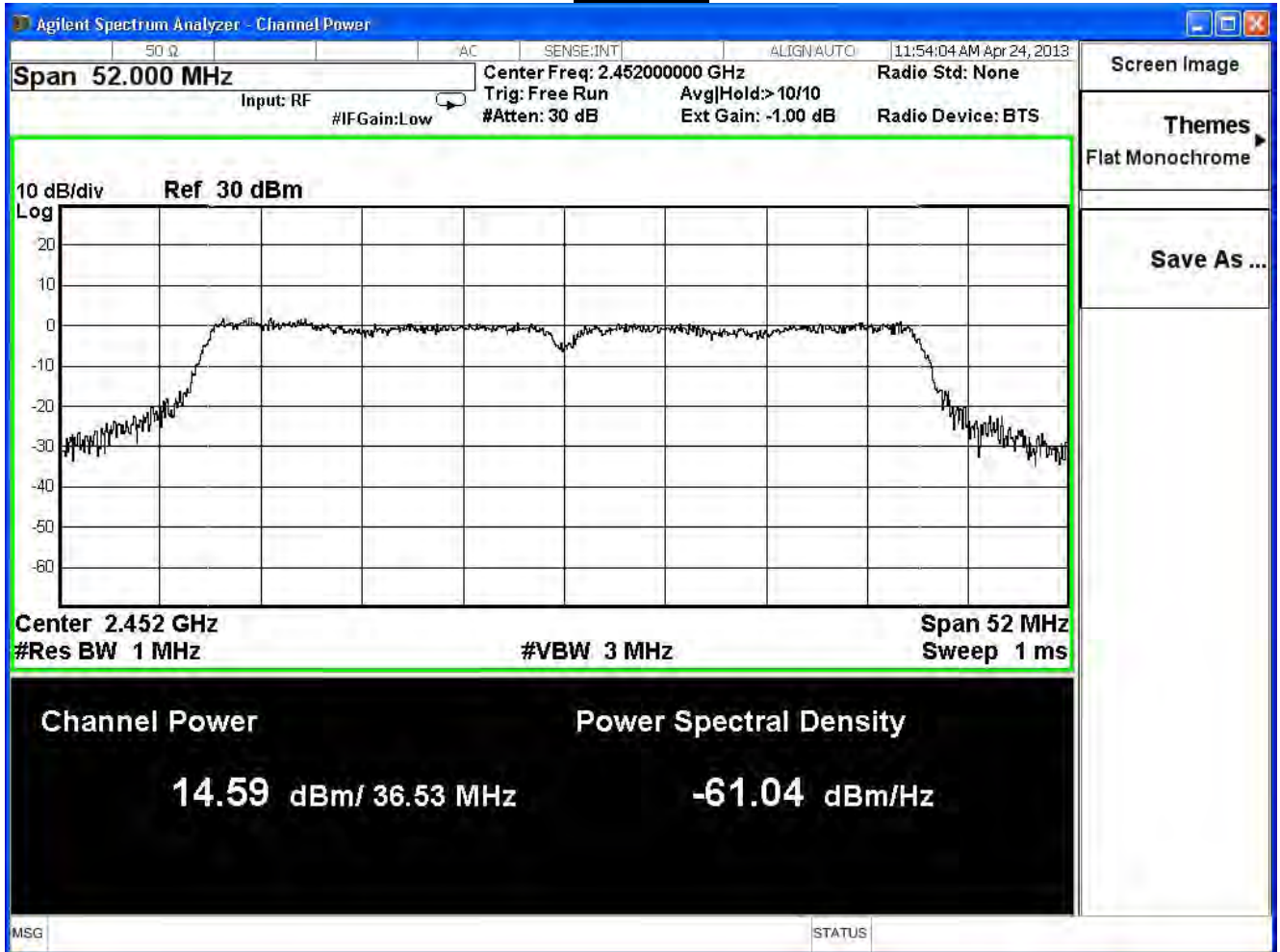
Channel 3



Channel 6



Channel 9



Product	11N Wireless LAN CARD		
Test Item	Peak Power Output		
Test Mode	Transmit		
Date of Test	2013/04/24	Test Site	SR7

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

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	17.58	30	Pass
6	2437	18.39	30	Pass
9	2452	16.68	30	Pass

Note: Measure Level =Reading value + cable loss

Product	11N Wireless LAN CARD		
Test Item	Peak Power Output		
Test Mode	Transmit		
Date of Test	2013/05/02	Test Site	SR7

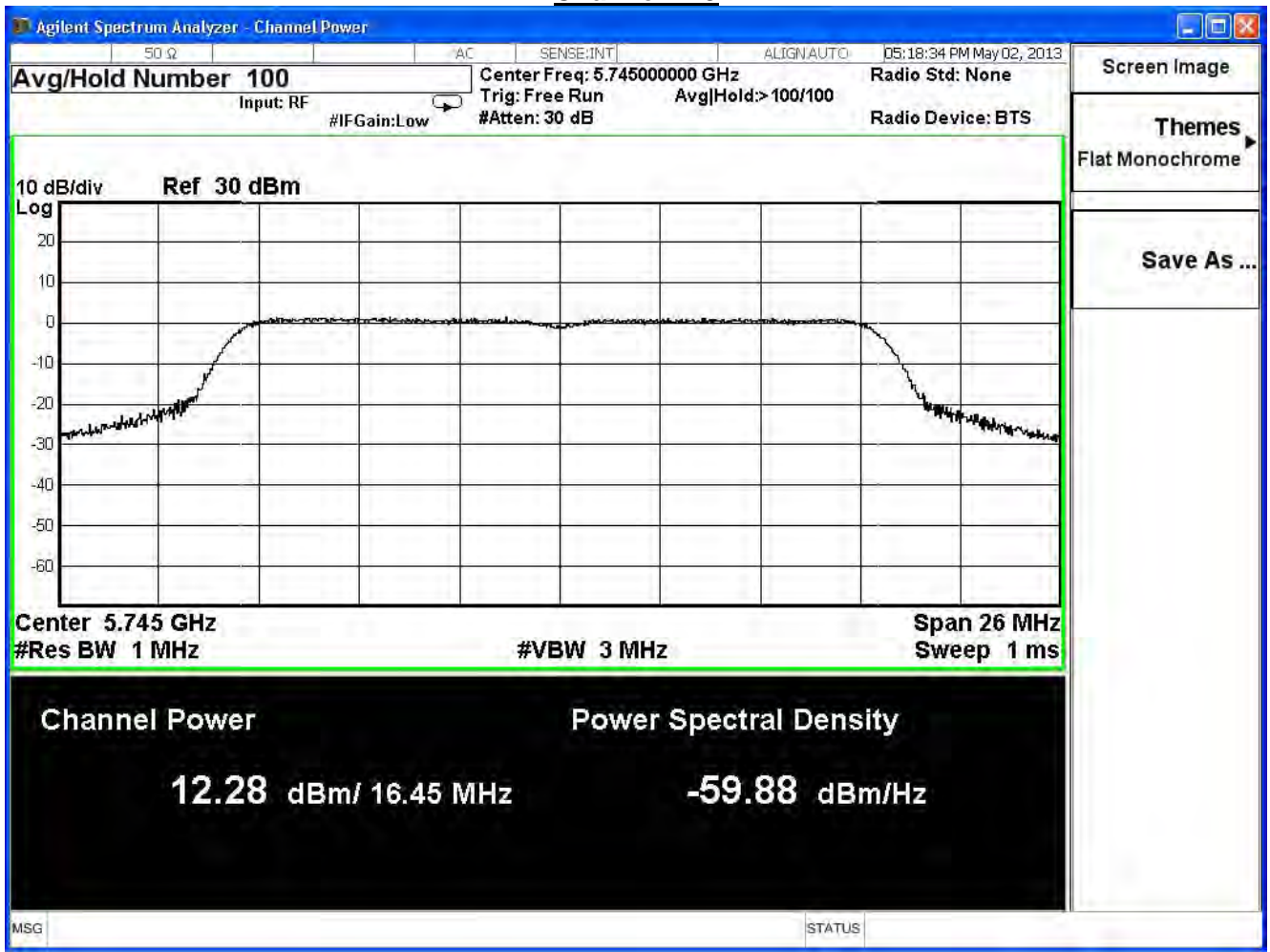
IEEE 802.11a				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	12.28	30	Pass
157	5785	13.27	30	Pass
165	5825	13.60	30	Pass

The worst emission of data rate is 6Mbps.

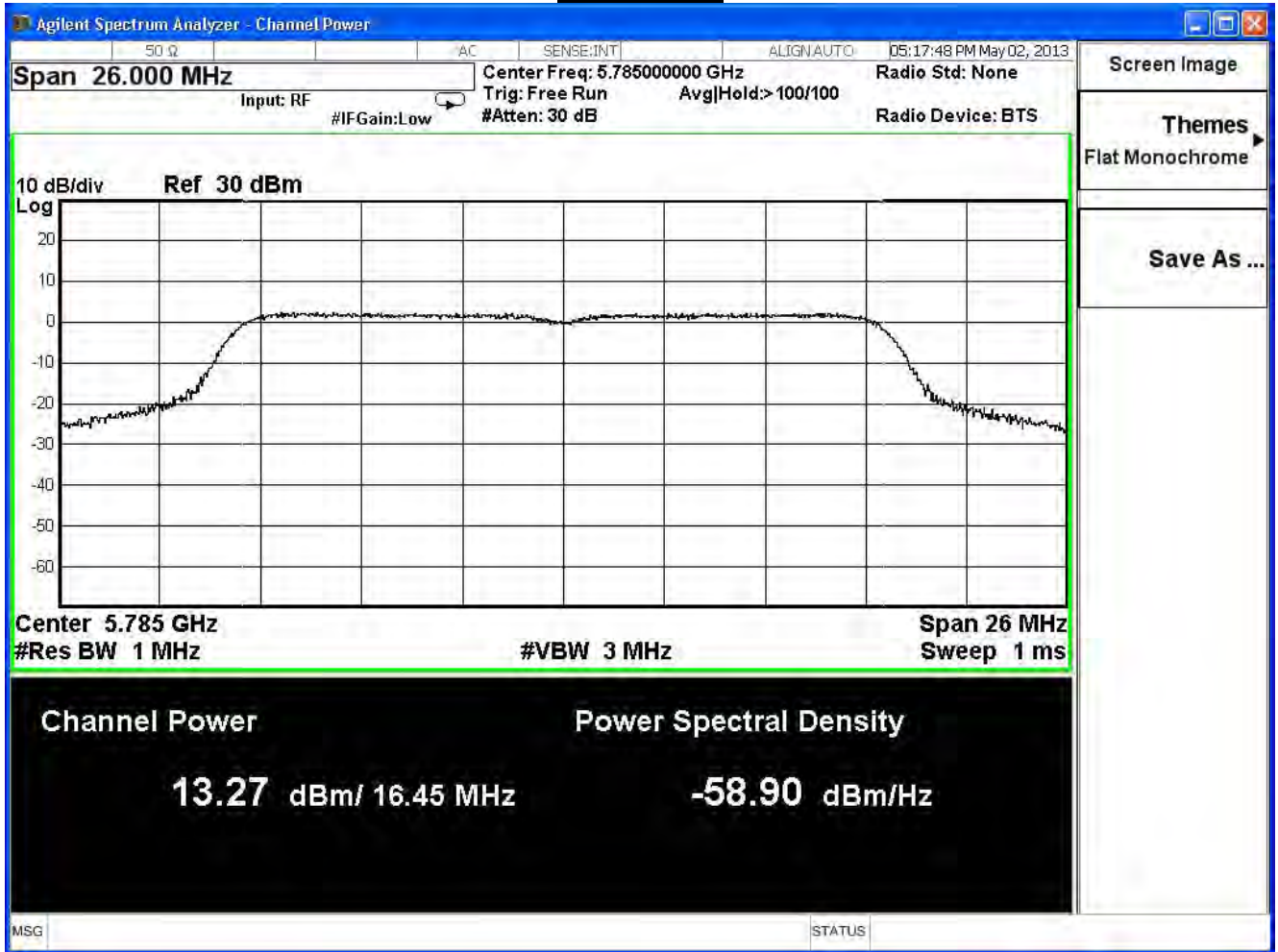
Peak Power Output Value(dBm)									
Channel No.	Frequency (MHz)	Data Rate (Mbps)							Required Limit
		6	12	18	24	36	48	54	
149	5745	12.28	--	--	--	--	--	--	30dBm
157	5785	13.27	13.26	13.25	13.24	13.23	13.22	13.21	30dBm
165	5825	13.60	--	--	--	--	--	--	30dBm

Note: Measure Level =Reading value + cable loss

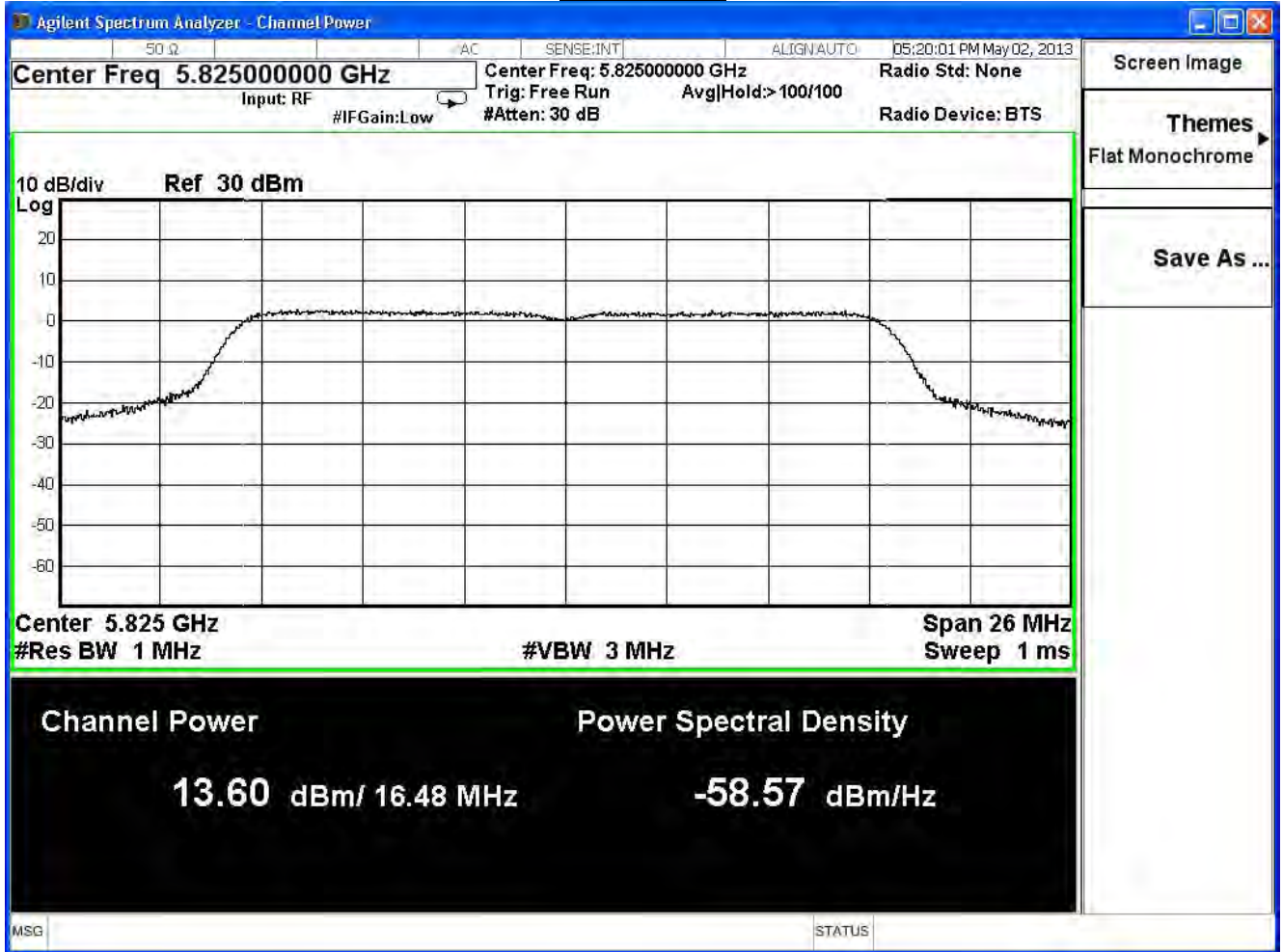
Channel 149



Channel 157



Channel 165



Product	11N Wireless LAN CARD		
Test Item	Peak Power Output		
Test Mode	Transmit		
Date of Test	2013/05/02	Test Site	SR7

IEEE 802.11n 20MHz (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	16.70	28.87	Pass
157	5785	17.47	28.87	Pass
165	5825	17.61	28.87	Pass

The worst emission of data rate is 13 Mbps.

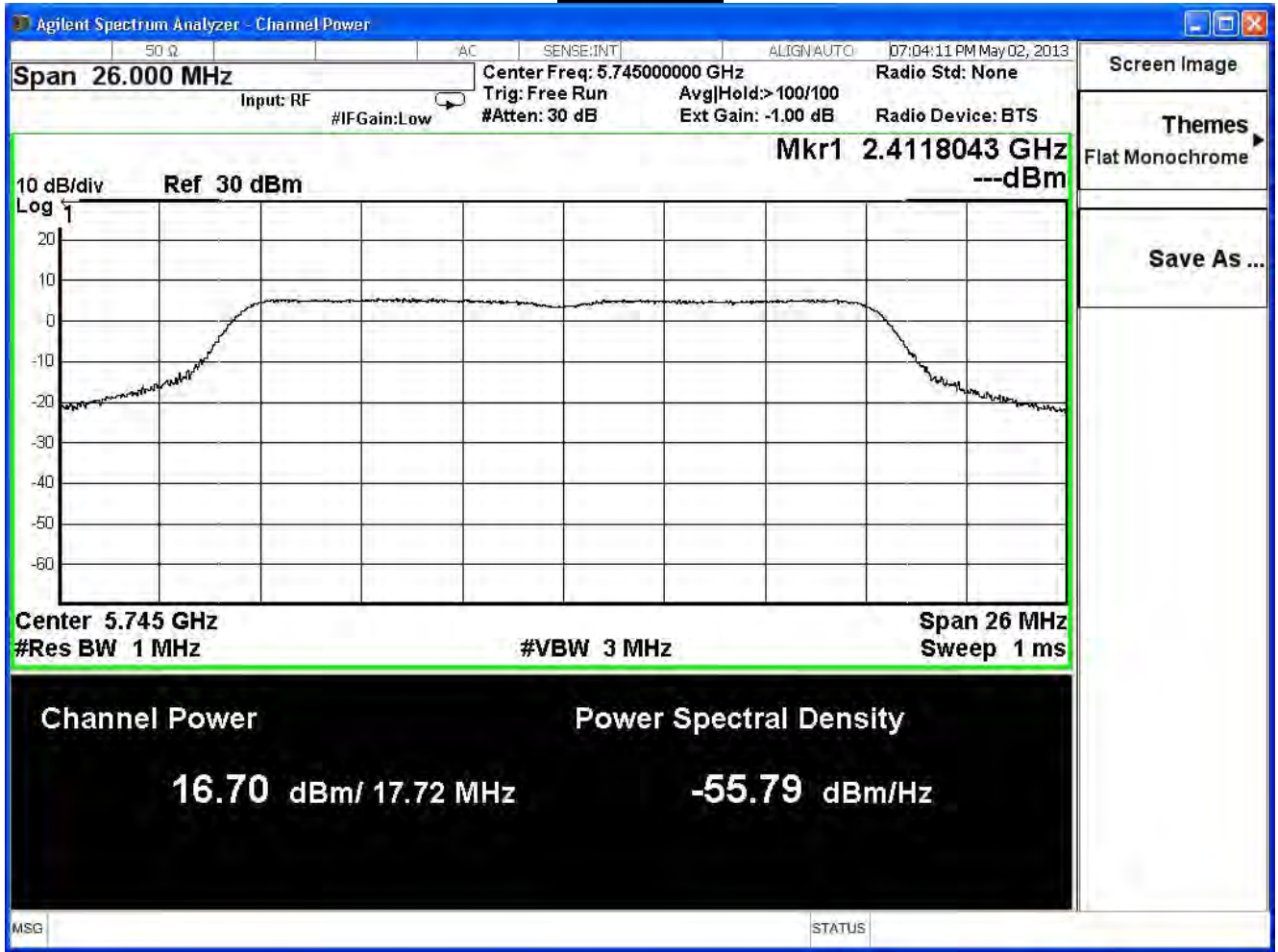
		Peak Power Output (dBm)								Required Limit
MCS Index		8	9	10	11	12	13	14	15	
Channel No	Frequency (MHz)	Data Rate								
		13	26	39	52	78	104	117	130	
149	5745	16.70	--	--	--	--	--	--	--	28.87dBm
157	5785	17.47	17.46	17.45	17.43	17.42	17.41	17.40	17.39	28.87dBm
165	5825	17.61	--	--	--	--	--	--	--	28.87dBm

Note: Measure Level = Reading value + cable loss

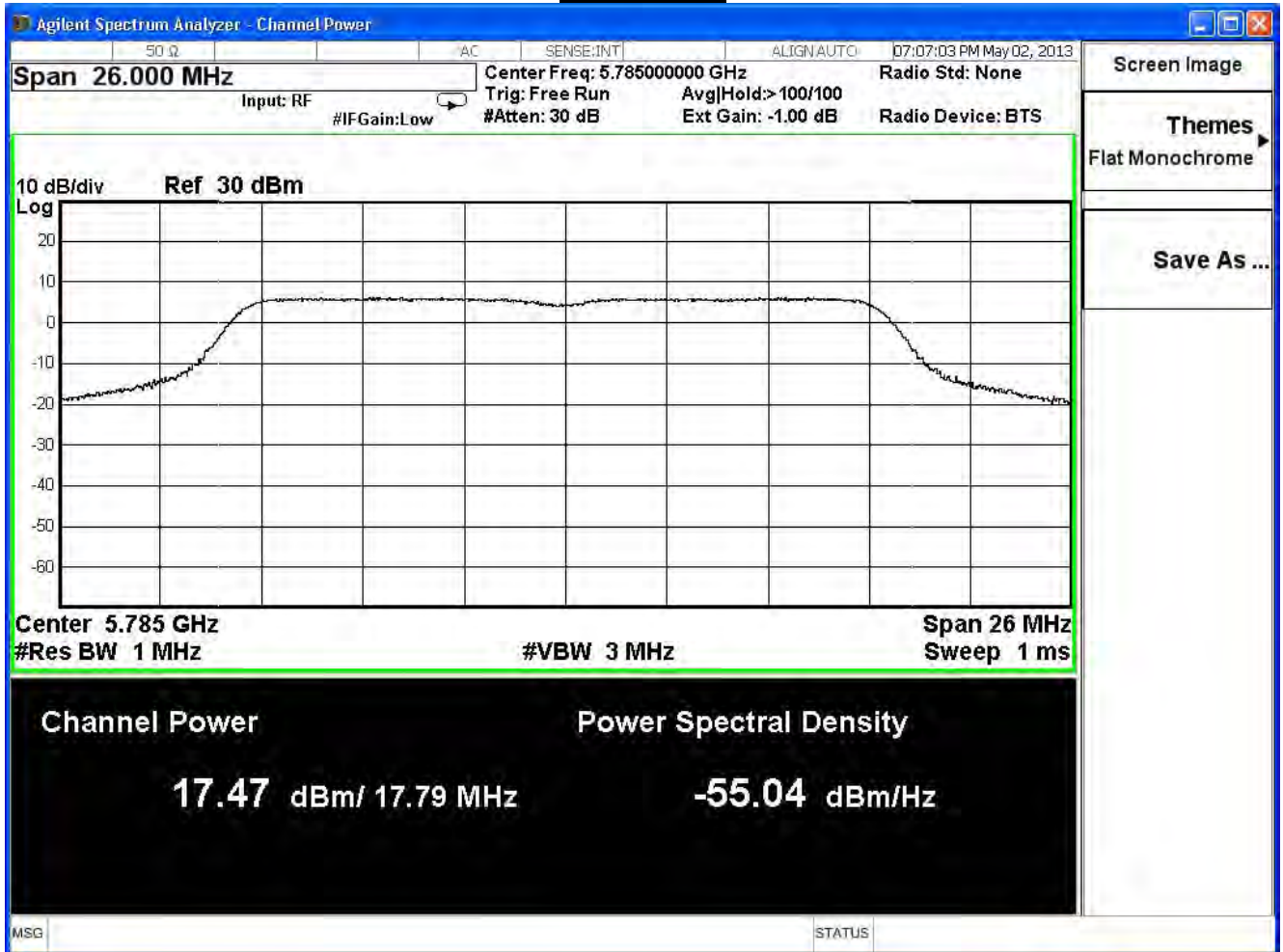
5.8G Ant = $10\log(\text{Ant N}) + \text{Ant Gain} = 3.01\text{dBm} + 4.12\text{dBi} = 7.13\text{dBi}$

Required Limit = $30\text{dBm} - (7.13\text{dBi} - 6\text{dBi}) = 28.87\text{dBm}$

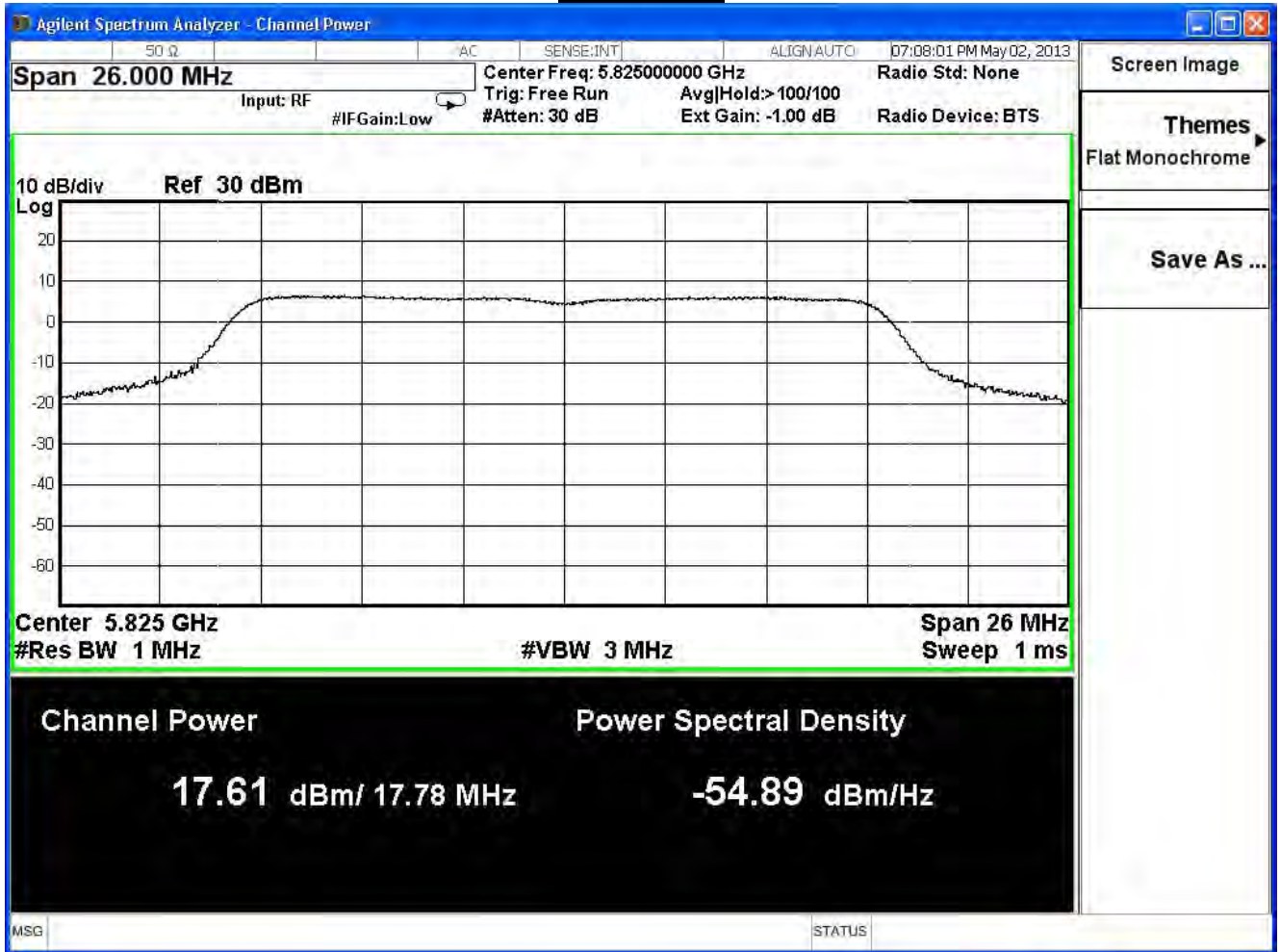
Channel 149



Channel 157



Channel 165



Product	11N Wireless LAN CARD		
Test Item	Peak Power Output		
Test Mode	Transmit		
Date of Test	2013/05/02	Test Site	SR7

IEEE 802.11n 20MHz (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	17.41	28.87	Pass
157	5785	17.85	28.87	Pass
165	5825	18.49	28.87	Pass

The worst emission of data rate is 13 Mbps.

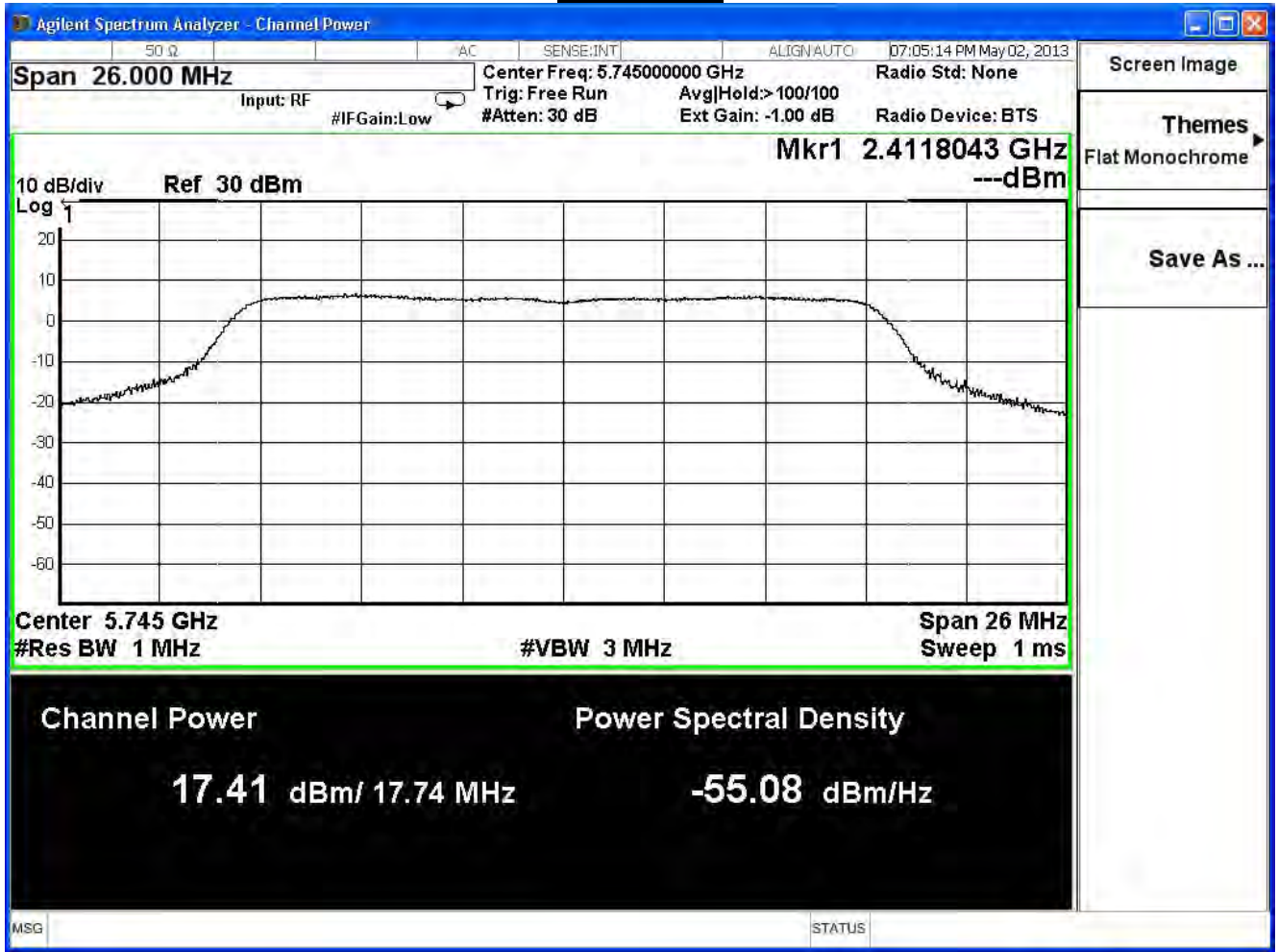
		Peak Power Output (dBm)								Required Limit
MCS Index		8	9	10	11	12	13	14	15	
Channel No	Frequency (MHz)	Data Rate								
		13	26	39	52	78	104	117	130	
149	5745	17.41	--	--	--	--	--	--	--	28.87dBm
157	5785	17.85	17.84	17.83	17.82	17.81	17.80	17.79	17.78	28.87dBm
165	5825	18.49	--	--	--	--	--	--	--	28.87dBm

Note: Measure Level = Reading value + cable loss

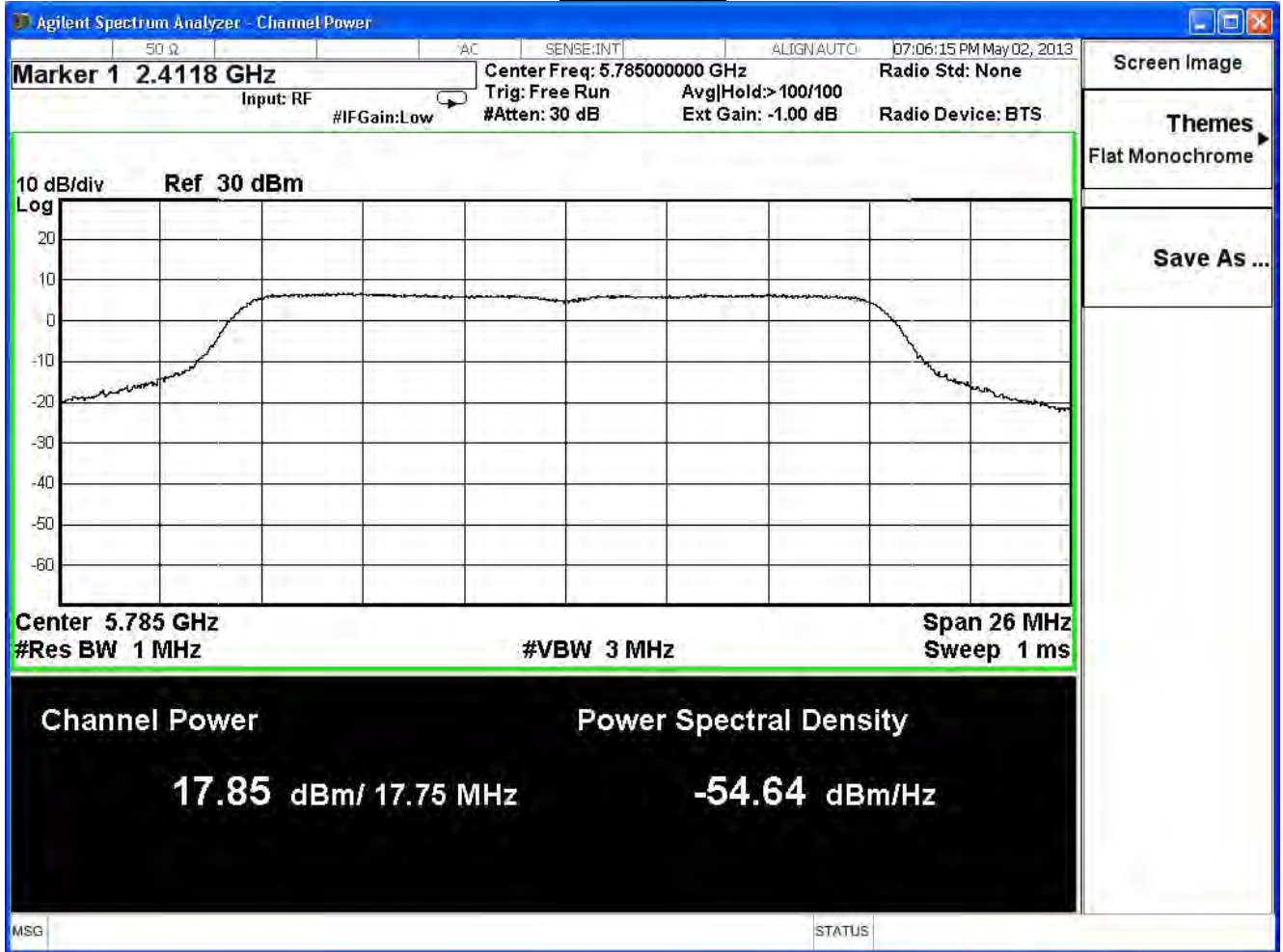
5.8G Ant = $10\log(\text{Ant N}) + \text{Ant Gain} = 3.01\text{dBm} + 4.12\text{dBi} = 7.13\text{dBi}$

Required Limit = $30\text{dBm} - (7.13\text{dBi} - 6\text{dBi}) = 28.87\text{dBm}$

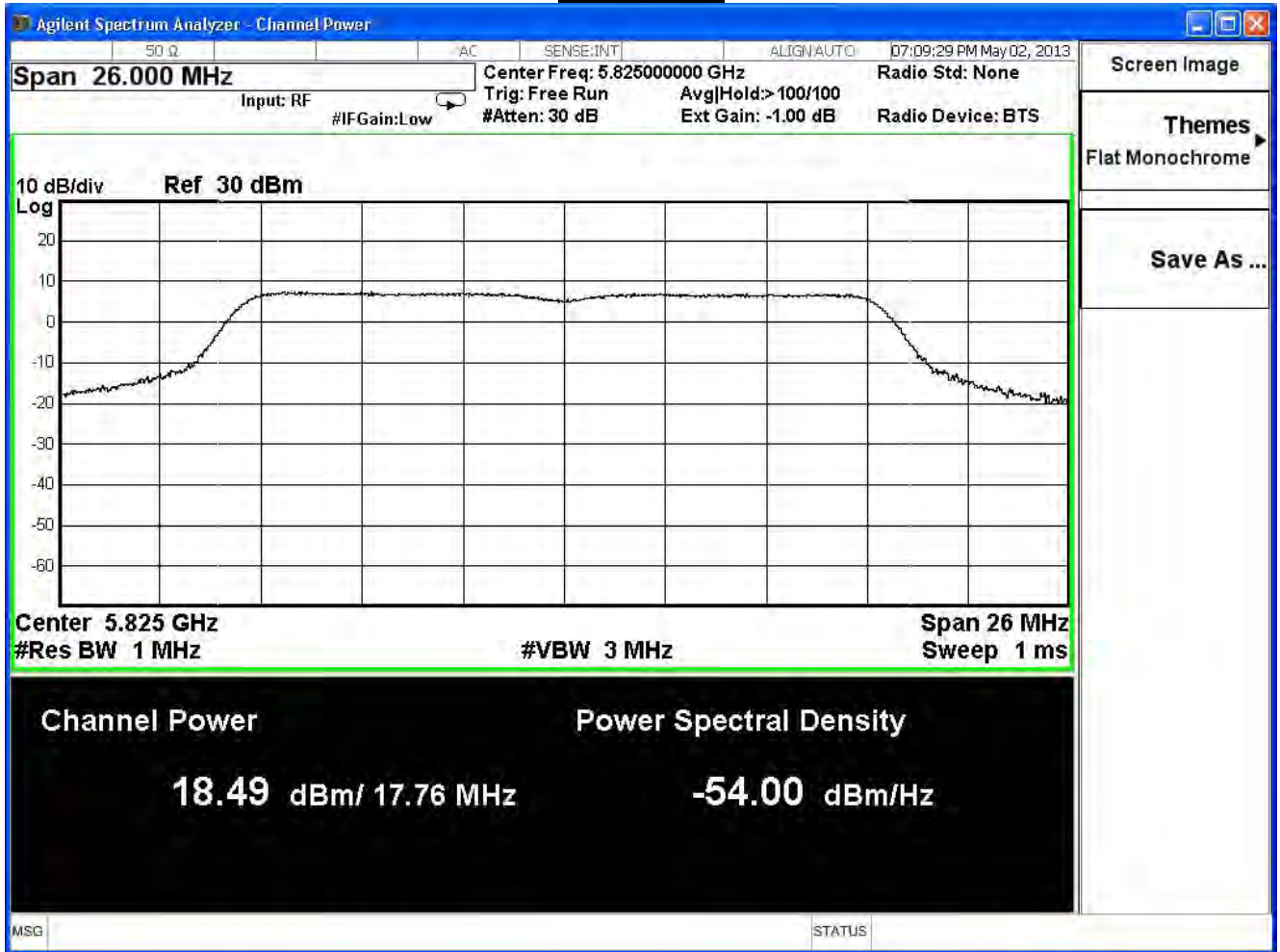
Channel 149



Channel 157



Channel 165



Product	11N Wireless LAN CARD		
Test Item	Peak Power Output		
Test Mode	Transmit		
Date of Test	2013/05/02	Test Site	SR7

IEEE 802.11n 20MHz (ANT 0+1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	20.08	28.87	Pass
157	5785	20.67	28.87	Pass
165	5825	21.08	28.87	Pass

Note: Measure Level = Reading value + cable loss

5.8G Ant = $10\log(\text{Ant N}) + \text{Ant Gain} = 3.01\text{dBm} + 4.12\text{dBi} = 7.13\text{dBi}$

Required Limit = $30\text{dBm} - (7.13\text{dBi} - 6\text{dBi}) = 28.87\text{dBm}$

Product	11N Wireless LAN CARD		
Test Item	Peak Power Output		
Test Mode	Transmit		
Date of Test	2013/05/02	Test Site	SR7

IEEE802.11n 40MHz(ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	15.62	28.87	Pass
159	5795	16.33	28.87	Pass

The worst emission of data rate is 27Mbps

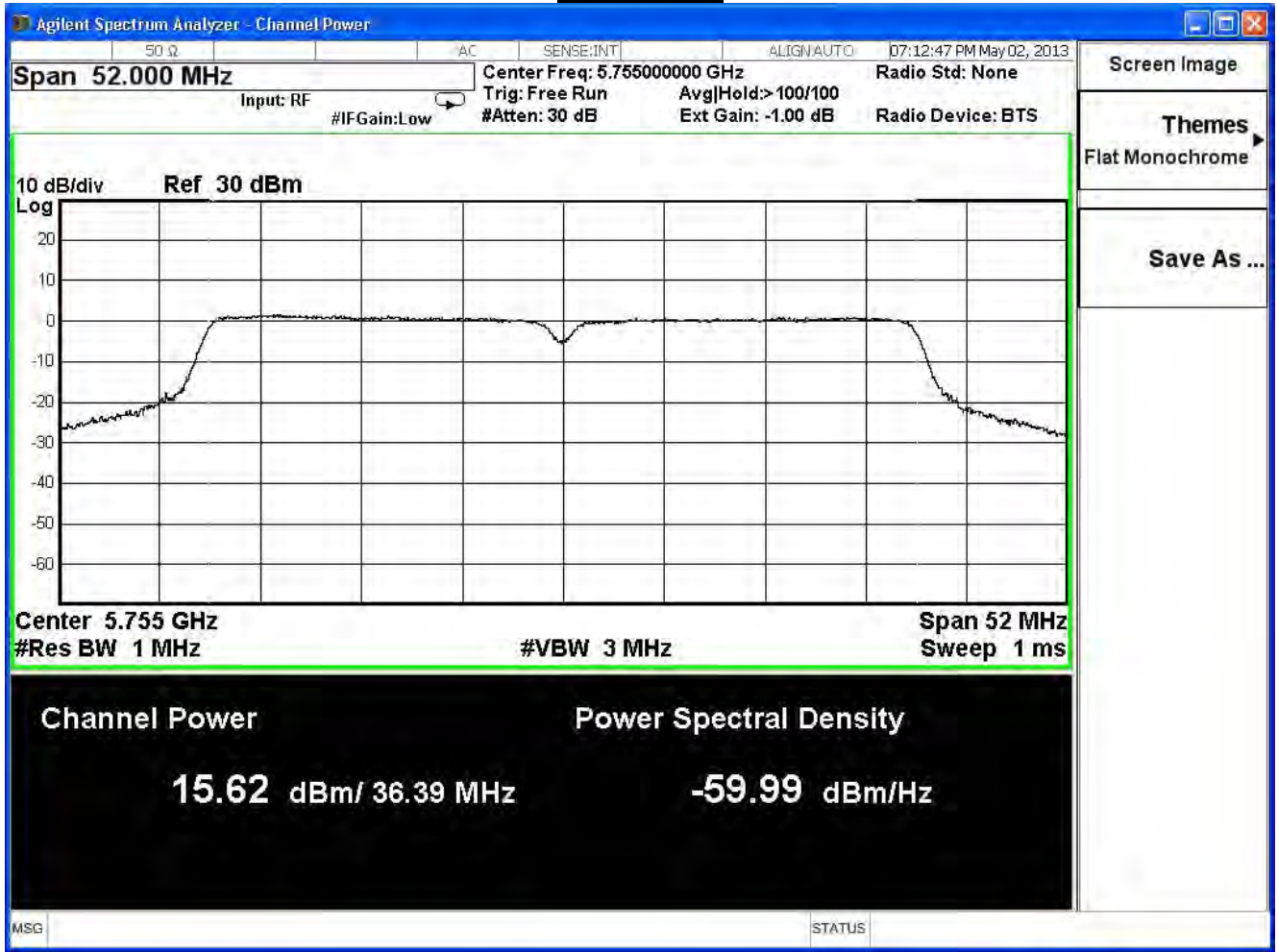
Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		27	54	81	108	162	216	243	270	
151	5755	15.62	15.61	15.60	15.59	15.58	15.57	15.56	15.55	28.87dBm
159	5795	16.33	--	--	--	--	--	--	--	28.87dBm

Note: Measure Level = Reading value + cable loss

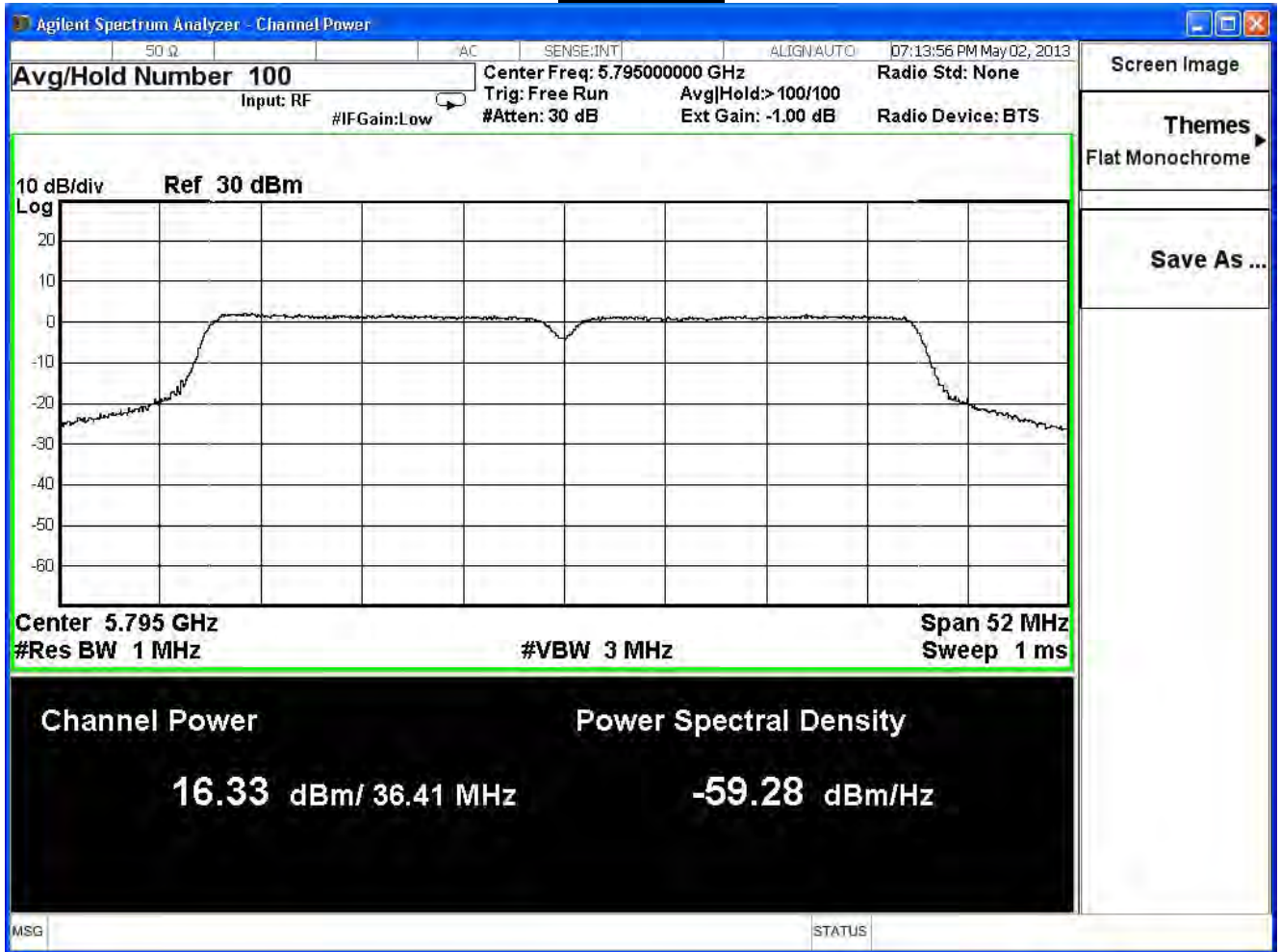
5.8G Ant = $10\log(\text{Ant N}) + \text{Ant Gain} = 3.01\text{dBm} + 4.12\text{dBi} = 7.13\text{dBi}$

Required Limit = $30\text{dBm} - (7.13\text{dBi} - 6\text{dBi}) = 28.87\text{dBm}$

Channel 151



Channel 159



Product	11N Wireless LAN CARD		
Test Item	Peak Power Output		
Test Mode	Transmit		
Date of Test	2013/05/02	Test Site	SR7

IEEE802.11n 40MHz(ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	15.68	28.87	Pass
159	5795	16.92	28.87	Pass

The worst emission of data rate is 27Mbps

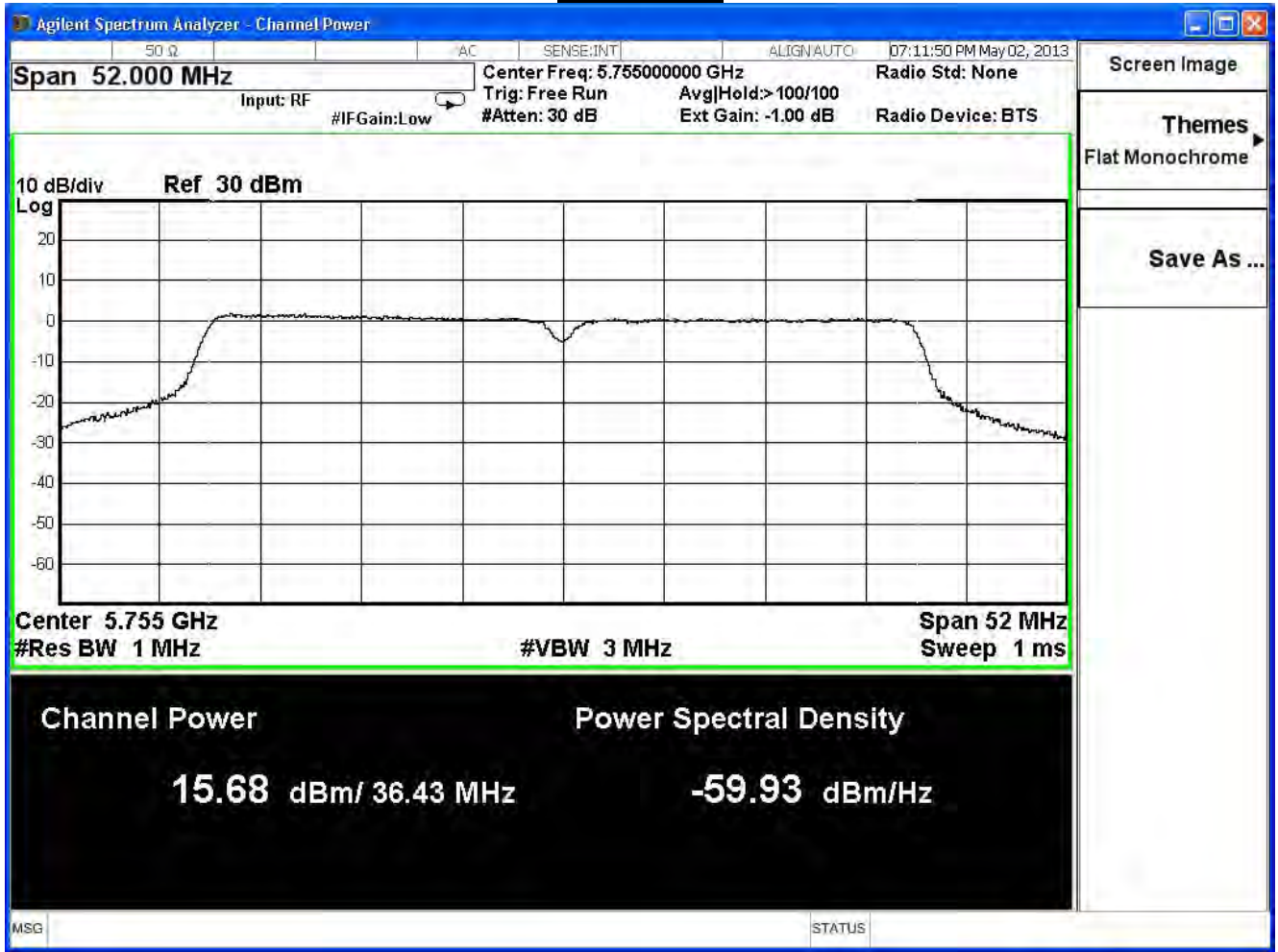
		Peak Power Output (dBm)								Required Limit
MCS Index		8	9	10	11	12	13	14	15	
Channel No	Frequency (MHz)	Data Rate								
		27	54	81	108	162	216	243	270	
151	5755	15.68	15.67	15.65	15.64	15.63	15.62	15.61	15.60	28.87dBm
159	5795	16.92	--	--	--	--	--	--	--	28.87dBm

Note: Measure Level =Reading value + cable loss

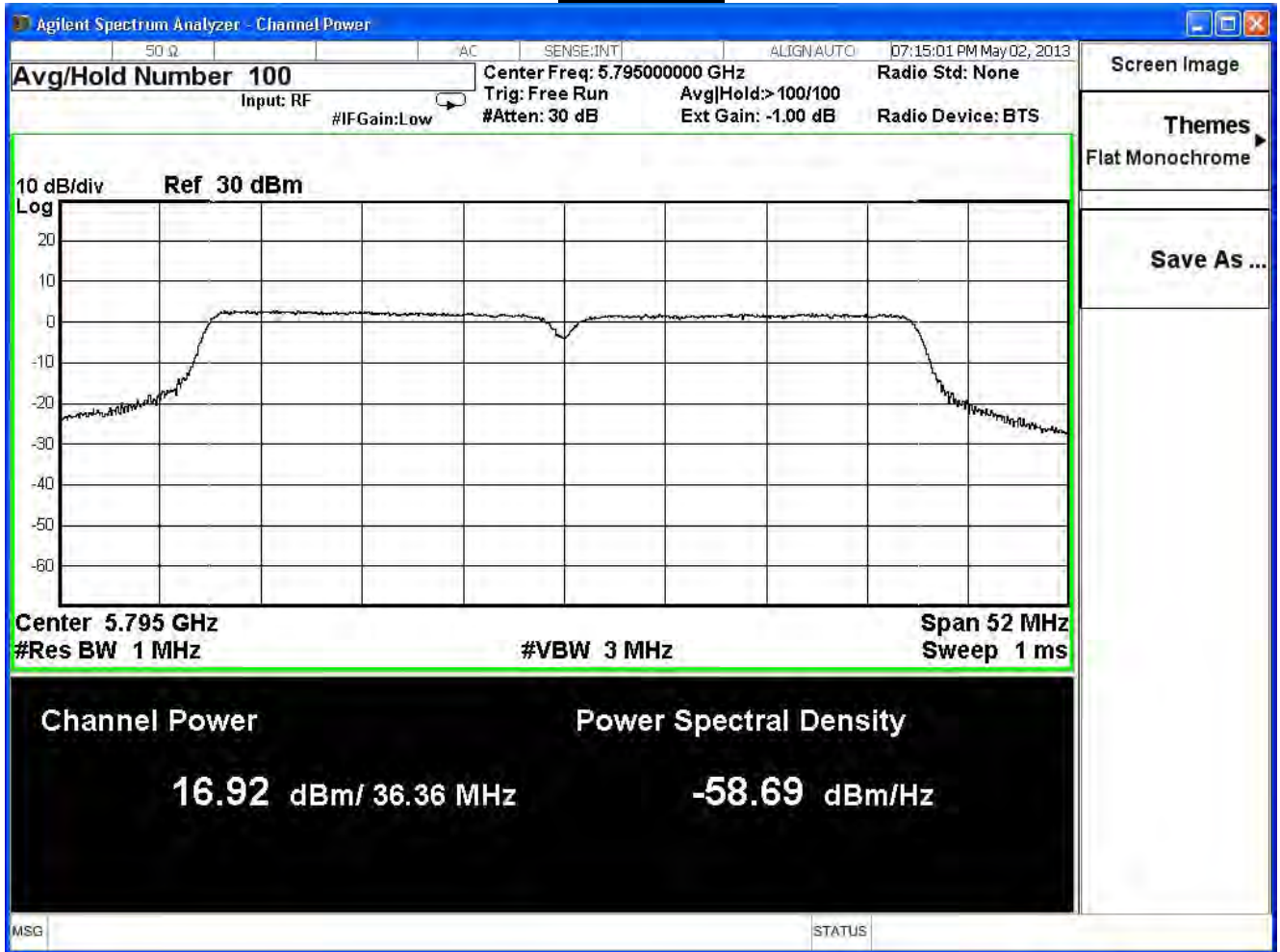
5.8G Ant = $10\log(\text{Ant N}) + \text{Ant Gain} = 3.01\text{dBm} + 4.12\text{dBi} = 7.13\text{dBi}$

Required Limit = $30\text{dBm} - (7.13\text{dBi} - 6\text{dBi}) = 28.87\text{dBm}$

Channel 151



Channel 159



Product	11N Wireless LAN CARD		
Test Item	Peak Power Output		
Test Mode	Transmit		
Date of Test	2013/05/02	Test Site	SR7

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

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	18.88	28.87	Pass
159	5795	19.65	28.87	Pass

Note: Measure Level = Reading value + cable loss

5.8G Ant = $10\log(\text{Ant N}) + \text{Ant Gain} = 3.01\text{dBm} + 4.12\text{dBi} = 7.13\text{dBi}$

Required Limit = $30\text{dBm} - (7.13\text{dBi} - 6\text{dBi}) = 28.87\text{dBm}$

4. Radiated Emission

4.1. Test Equipment

The following test equipments are used during the test:

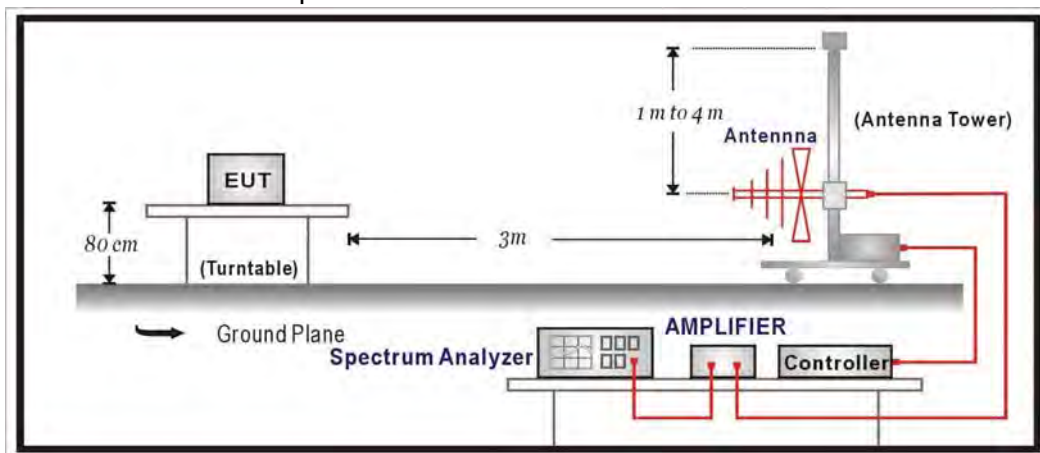
Radiated Emission / CB1

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

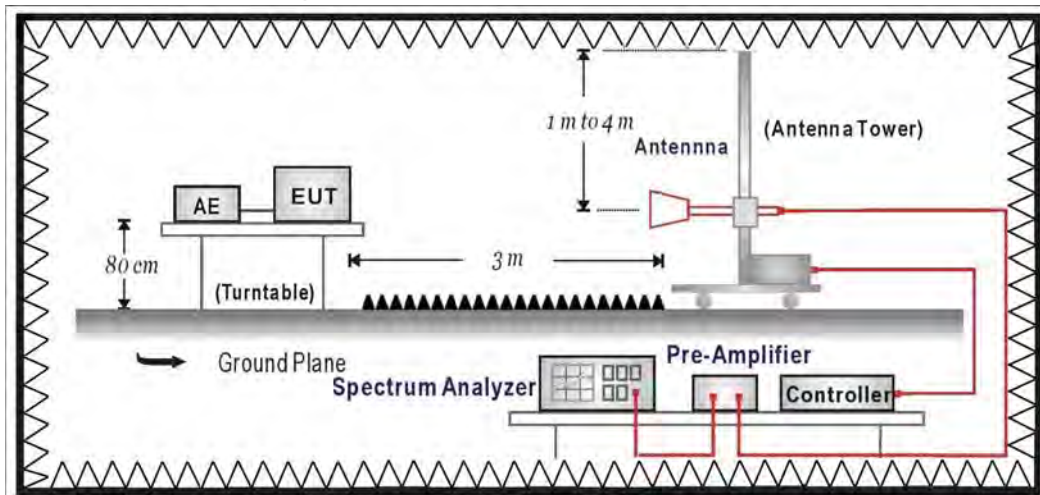
Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

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 C63.4: 2009 and tested according to DTS test procedure of Jan. 2012 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 C63.4: 2009 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: 2012

4.6. Uncertainty

The measurement uncertainty

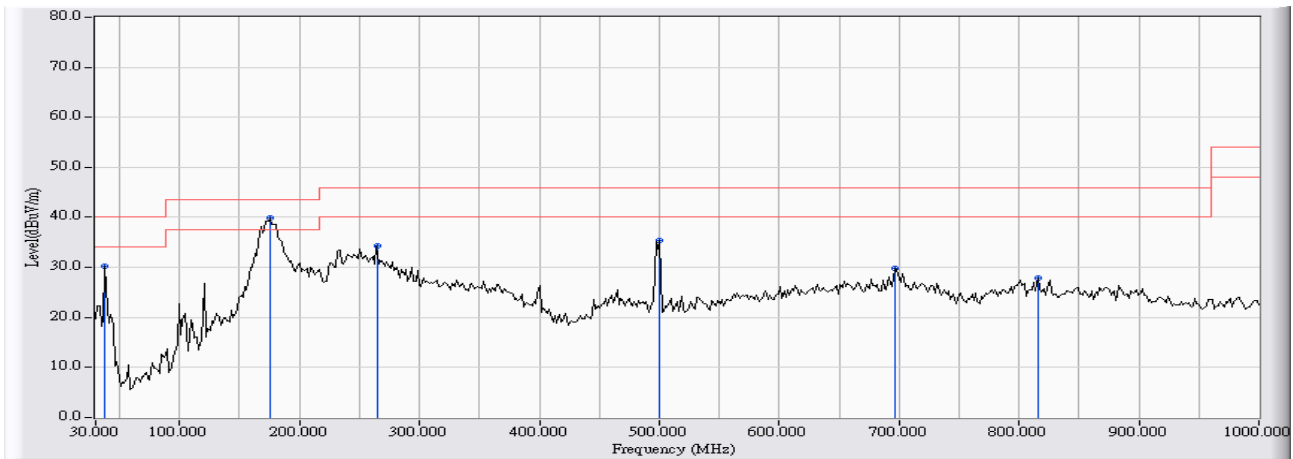
30MHz~1GHz as ±3.43dB

1GHz~26.5Ghz as ±3.65dB

4.7. Test Result

30MHz-1GHz Spurious

Site : CB1	Time : 2013/05/03 - 15:31
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11b_CH06

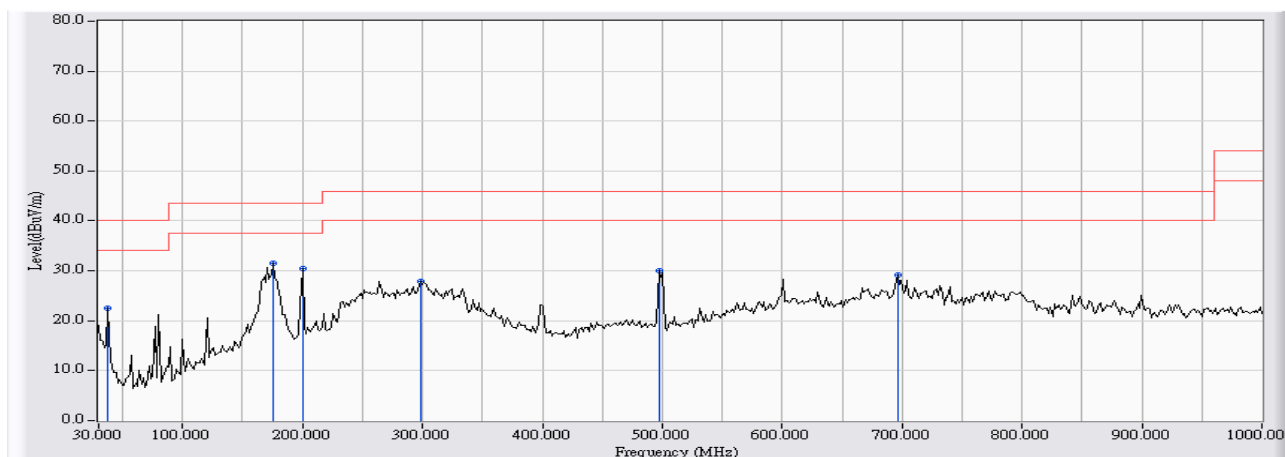


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	38.083	-10.948	41.280	30.333	-9.667	40.000	QUASPEAK
2	* 175.500	-14.127	53.962	39.835	-3.665	43.500	QUASPEAK
3	264.417	-10.239	44.526	34.286	-11.714	46.000	QUASPEAK
4	500.450	-4.570	39.881	35.310	-10.690	46.000	QUASPEAK
5	696.067	-3.128	33.010	29.882	-16.118	46.000	QUASPEAK
6	815.700	-1.655	29.592	27.937	-18.063	46.000	QUASPEAK

Note:

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

Site : CB1	Time : 2013/05/03 - 15:31
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11b_CH06

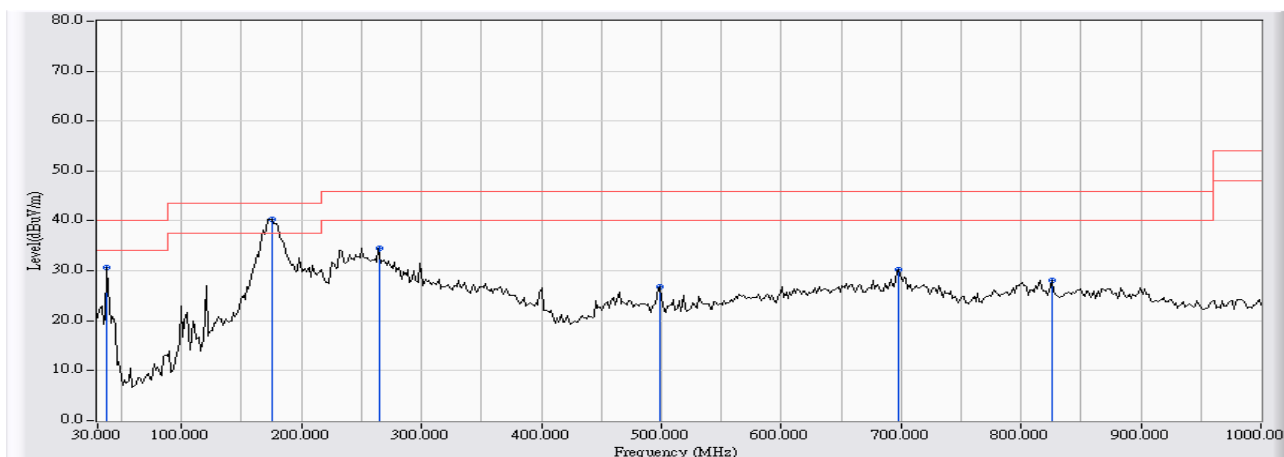


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	38.083	-10.948	33.464	22.517	-17.483	40.000	QUASPEAK
2	* 175.500	-14.127	45.660	31.533	-11.967	43.500	QUASPEAK
3	199.750	-14.374	44.894	30.520	-12.980	43.500	QUASPEAK
4	298.367	-9.459	37.432	27.973	-18.027	46.000	QUASPEAK
5	497.217	-4.640	34.577	29.938	-16.062	46.000	QUASPEAK
6	696.067	-3.128	32.340	29.212	-16.788	46.000	QUASPEAK

Note:

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

Site : CB1	Time : 2013/05/03 - 15:25
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11g_CH06

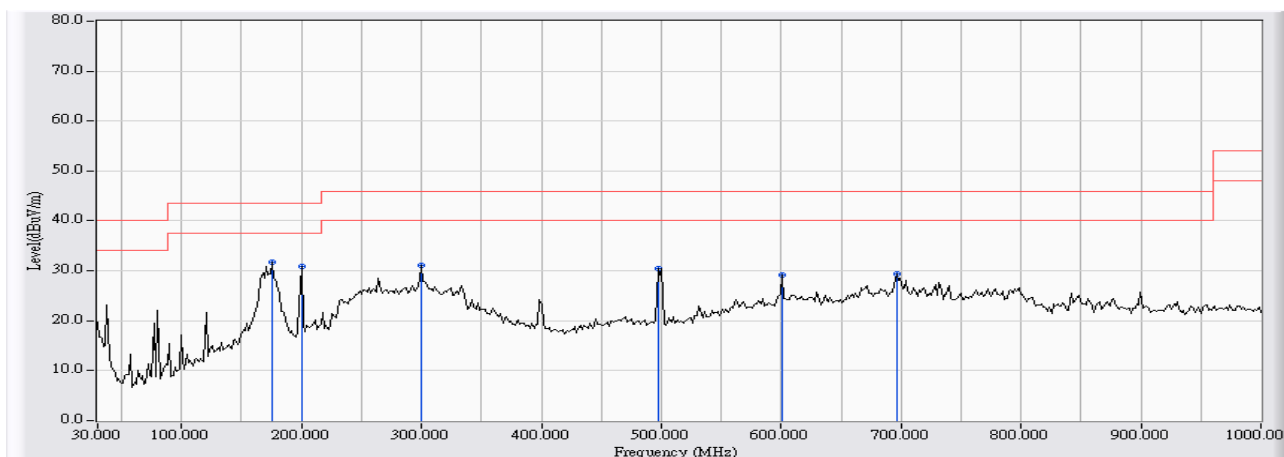


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	38.083	-10.948	41.520	30.573	-9.427	40.000	QUASPEAK
2	* 175.500	-14.127	54.432	40.305	-3.195	43.500	QUASPEAK
3	264.417	-10.239	44.672	34.432	-11.568	46.000	QUASPEAK
4	498.833	-4.600	31.439	26.838	-19.162	46.000	QUASPEAK
5	697.683	-3.115	33.297	30.182	-15.818	46.000	QUASPEAK
6	825.400	-1.732	29.804	28.072	-17.928	46.000	QUASPEAK

Note:

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

Site : CB1	Time : 2013/05/03 - 15:30
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11g_CH06

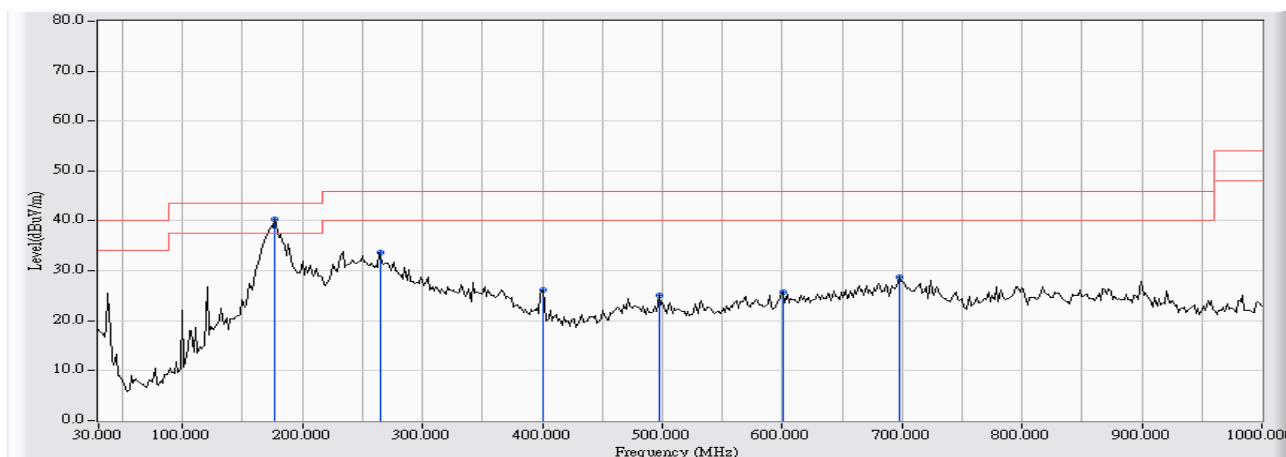


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	175.500	-14.127	45.788	31.661	-11.839	43.500	QUASPEAK
2		199.750	-14.374	45.311	30.937	-12.563	43.500	QUASPEAK
3		299.983	-9.421	40.415	30.995	-15.005	46.000	QUASPEAK
4		497.217	-4.640	34.999	30.360	-15.640	46.000	QUASPEAK
5		600.683	-3.754	32.924	29.170	-16.830	46.000	QUASPEAK
6		696.067	-3.128	32.464	29.336	-16.664	46.000	QUASPEAK

Note:

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

Site : CB1	Time : 2013/05/03 - 15:52
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11n 20MHz_CH06

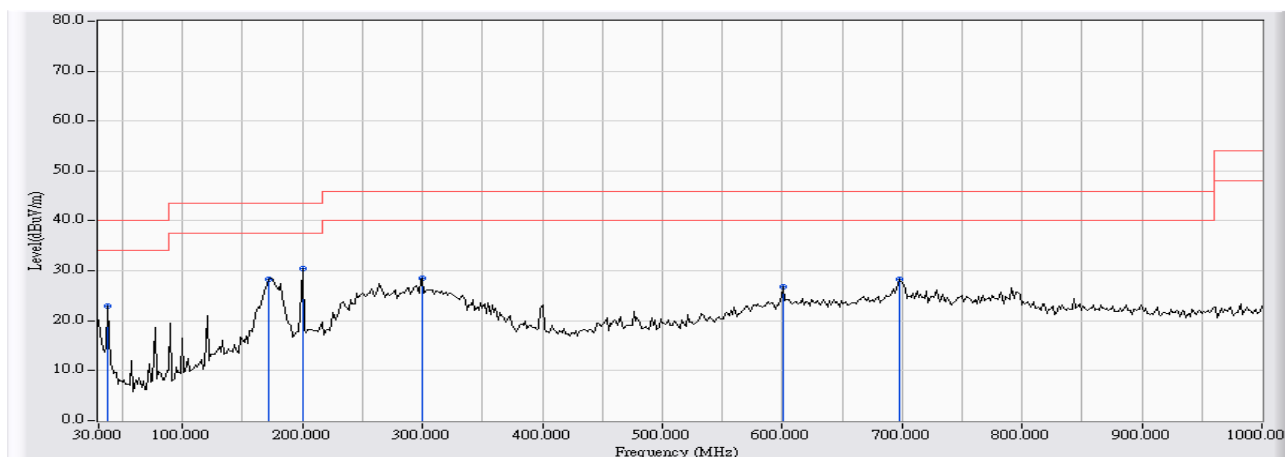


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	177.117	-14.198	54.545	40.347	-3.153	43.500	QUASPEAK
2		264.417	-10.239	43.912	33.672	-12.328	46.000	QUASPEAK
3		400.217	-6.596	32.812	26.215	-19.785	46.000	QUASPEAK
4		497.217	-4.640	29.640	25.001	-20.999	46.000	QUASPEAK
5		600.683	-3.754	29.581	25.827	-20.173	46.000	QUASPEAK
6		697.683	-3.115	31.927	28.812	-17.188	46.000	QUASPEAK

Note:

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

Site : CB1	Time : 2013/05/03 - 15:52
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11n 20MHz_CH06

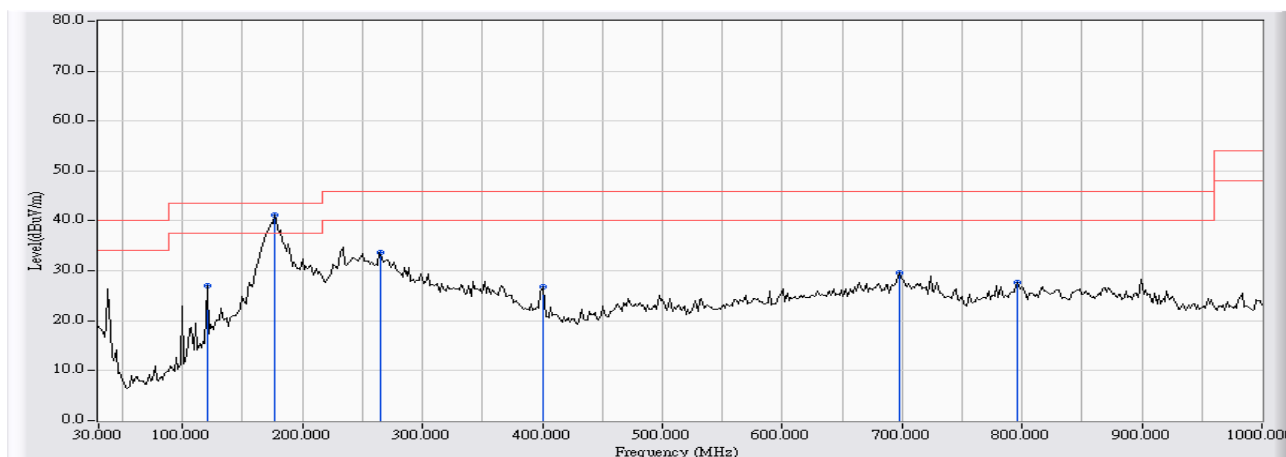


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	38.083	-10.948	33.942	22.995	-17.005	40.000	QUASPEAK
2	172.267	-13.986	42.401	28.416	-15.084	43.500	QUASPEAK
3	* 199.750	-14.374	44.821	30.447	-13.053	43.500	QUASPEAK
4	299.983	-9.421	37.913	28.493	-17.507	46.000	QUASPEAK
5	600.683	-3.754	30.581	26.827	-19.173	46.000	QUASPEAK
6	697.683	-3.115	31.418	28.303	-17.697	46.000	QUASPEAK

Note:

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

Site : CB1	Time : 2013/05/03 - 15:44
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11n 40MHz_CH06

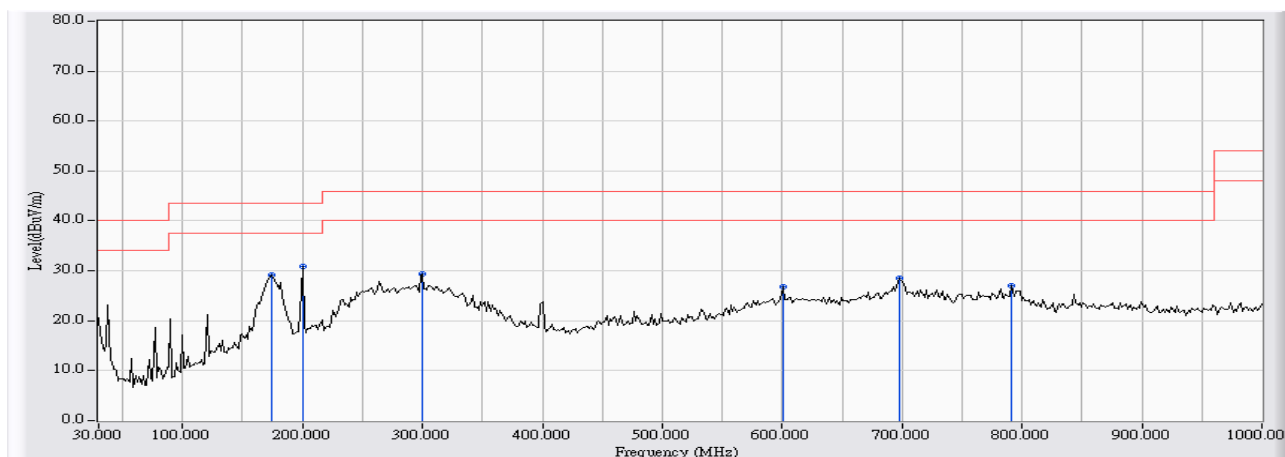


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	120.533	-11.742	38.782	27.040	-16.460	43.500	QUASPEAK
2	* 177.117	-14.198	55.348	41.150	-2.350	43.500	QUASPEAK
3	264.417	-10.239	43.949	33.709	-12.291	46.000	QUASPEAK
4	400.217	-6.596	33.446	26.849	-19.151	46.000	QUASPEAK
5	697.683	-3.115	32.701	29.586	-16.414	46.000	QUASPEAK
6	796.300	-1.628	29.205	27.576	-18.424	46.000	QUASPEAK

Note:

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

Site : CB1	Time : 2013/05/03 - 15:48
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11n 40MHz_CH06

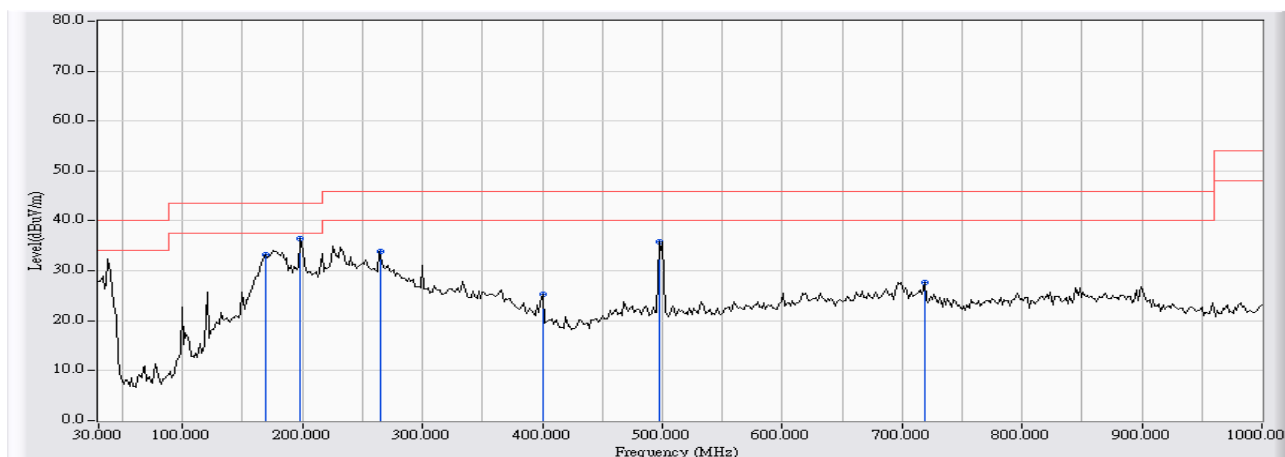


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	173.883	-14.057	43.145	29.089	-14.411	43.500	QUASPEAK
2	* 199.750	-14.374	45.333	30.959	-12.541	43.500	QUASPEAK
3	299.983	-9.421	38.729	29.309	-16.691	46.000	QUASPEAK
4	600.683	-3.754	30.581	26.827	-19.173	46.000	QUASPEAK
5	697.683	-3.115	31.599	28.484	-17.516	46.000	QUASPEAK
6	791.450	-1.688	28.802	27.114	-18.886	46.000	QUASPEAK

Note:

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

Site : CB1	Time : 2013/05/02 - 21:33
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11a CH157

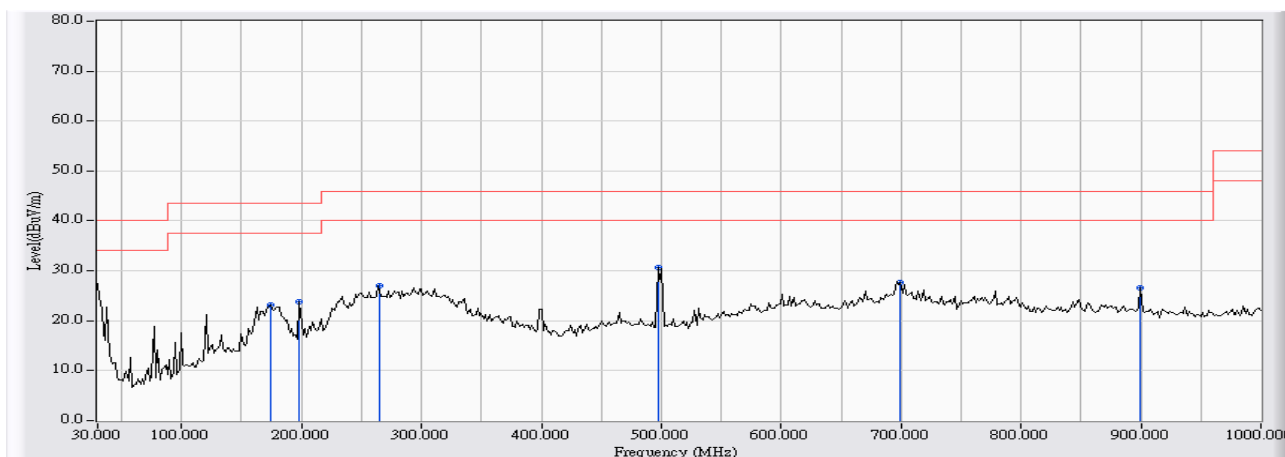


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	169.033	-13.844	47.152	33.308	-10.192	43.500	QUASPEAK
2	* 198.133	-14.371	50.867	36.496	-7.004	43.500	QUASPEAK
3	264.417	-10.239	44.189	33.949	-12.051	46.000	QUASPEAK
4	400.217	-6.596	31.936	25.339	-20.661	46.000	QUASPEAK
5	497.217	-4.640	40.383	35.744	-10.256	46.000	QUASPEAK
6	718.700	-2.810	30.545	27.735	-18.265	46.000	QUASPEAK

Note:

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

Site : CB1	Time : 2013/05/02 - 21:37
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11a CH157

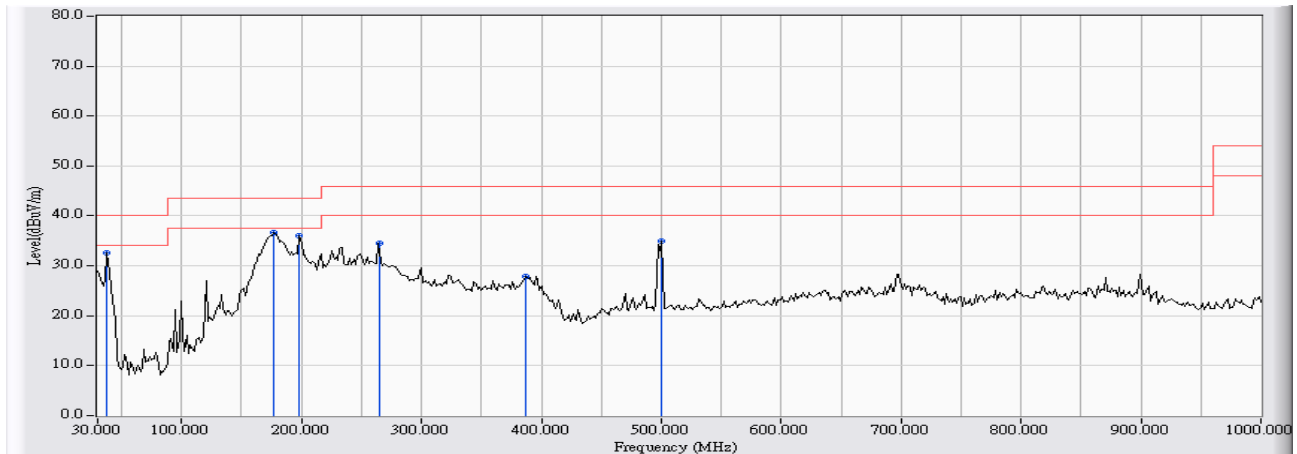


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	173.883	-14.057	37.277	23.221	-20.279	43.500	QUASPEAK
2	198.133	-14.371	38.234	23.863	-19.637	43.500	QUASPEAK
3	264.417	-10.239	37.267	27.027	-18.973	46.000	QUASPEAK
4	* 497.217	-4.640	35.223	30.584	-15.416	46.000	QUASPEAK
5	699.300	-3.102	30.868	27.766	-18.234	46.000	QUASPEAK
6	899.767	-1.832	28.362	26.530	-19.470	46.000	QUASPEAK

Note:

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

Site : CB1	Time : 2013/05/02 - 21:45
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11n 20MHz CH157

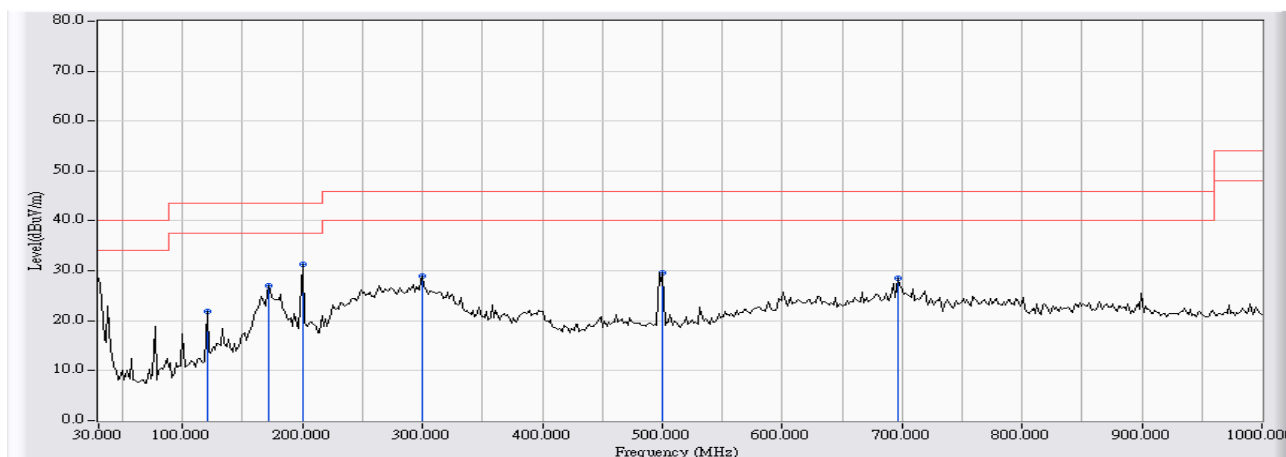


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	38.083	-11.021	43.720	32.700	-7.300	40.000	QUASPEAK
2	* 177.117	-14.309	51.066	36.757	-6.743	43.500	QUASPEAK
3	198.133	-14.556	50.512	35.956	-7.544	43.500	QUASPEAK
4	264.417	-10.663	45.281	34.618	-11.382	46.000	QUASPEAK
5	387.283	-7.918	35.826	27.909	-18.091	46.000	QUASPEAK
6	500.450	-5.388	40.333	34.945	-11.055	46.000	QUASPEAK

Note:

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

Site : CB1	Time : 2013/05/02 - 21:49
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11n 20MHz CH157

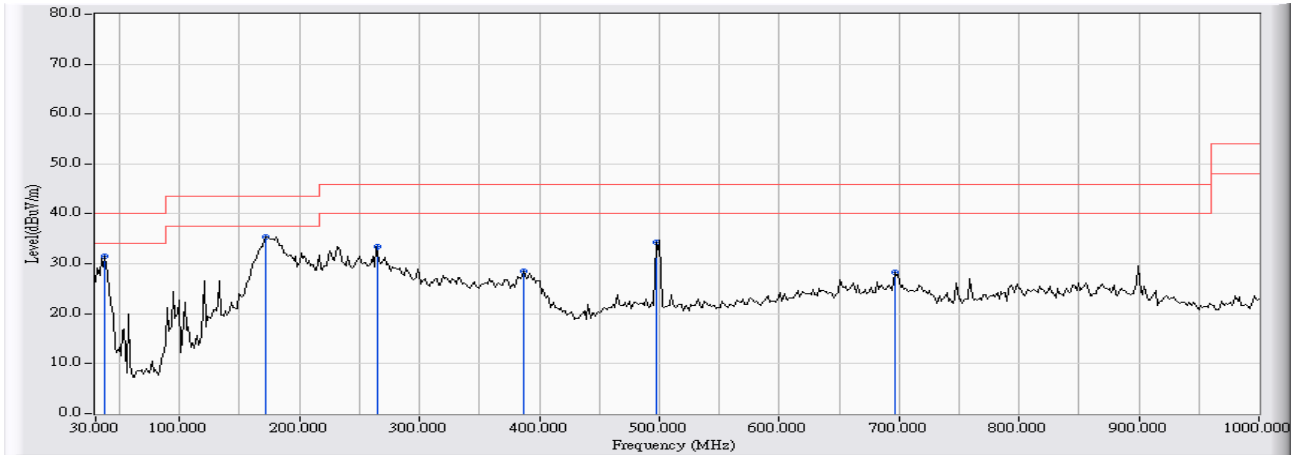


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	120.533	-11.821	33.788	21.967	-21.533	43.500	QUASPEAK
2	172.267	-14.089	41.012	26.924	-16.576	43.500	QUASPEAK
3	* 199.750	-14.567	45.954	31.387	-12.113	43.500	QUASPEAK
4	299.983	-10.026	38.895	28.869	-17.131	46.000	QUASPEAK
5	500.450	-5.388	35.084	29.696	-16.304	46.000	QUASPEAK
6	696.067	-4.256	32.680	28.424	-17.576	46.000	QUASPEAK

Note:

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

Site : CB1	Time : 2013/05/02 - 21:55
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11n 40MHz CH159

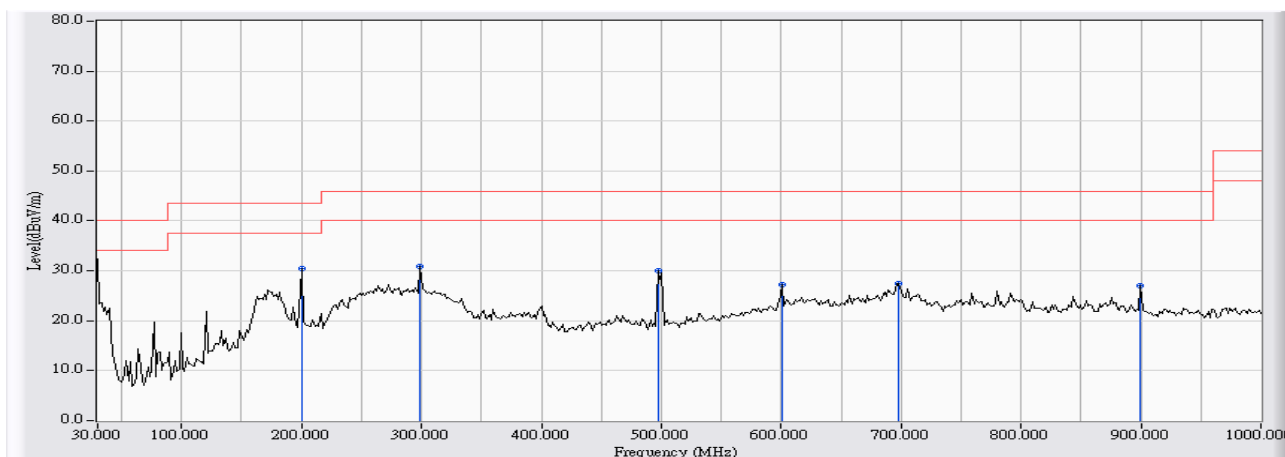


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	38.083	-11.021	42.465	31.445	-8.555	40.000	QUASPEAK
2	* 172.267	-14.089	49.447	35.359	-8.141	43.500	QUASPEAK
3	264.417	-10.663	44.094	33.431	-12.569	46.000	QUASPEAK
4	387.283	-7.918	36.424	28.507	-17.493	46.000	QUASPEAK
5	497.217	-5.455	39.675	34.221	-11.779	46.000	QUASPEAK
6	696.067	-4.256	32.537	28.281	-17.719	46.000	QUASPEAK

Note:

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

Site : CB1	Time : 2013/05/02 - 22:00
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11n 40MHz CH159



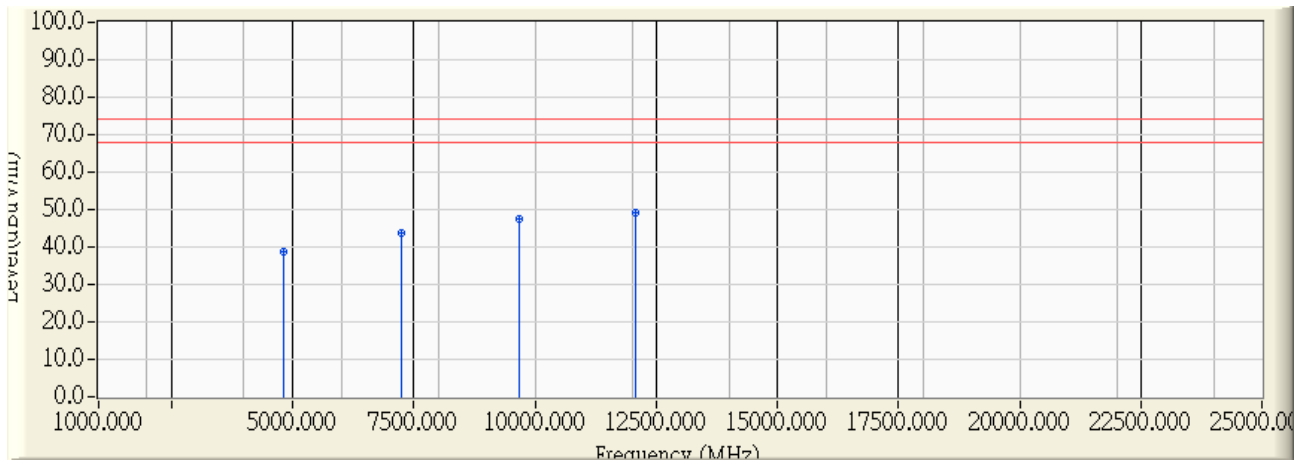
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	199.750	-14.567	45.047	30.480	-13.020	43.500	QUASPEAK
2		298.367	-10.057	40.910	30.854	-15.146	46.000	QUASPEAK
3		497.217	-5.455	35.558	30.104	-15.896	46.000	QUASPEAK
4		600.683	-4.978	32.286	27.308	-18.692	46.000	QUASPEAK
5		697.683	-4.244	31.741	27.498	-18.502	46.000	QUASPEAK
6		899.767	-2.262	29.257	26.995	-19.005	46.000	QUASPEAK

Note:

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

Above 1GHz Spurious

Site : CB1	Time : 2013/05/07 - 11:18
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11b_CH1

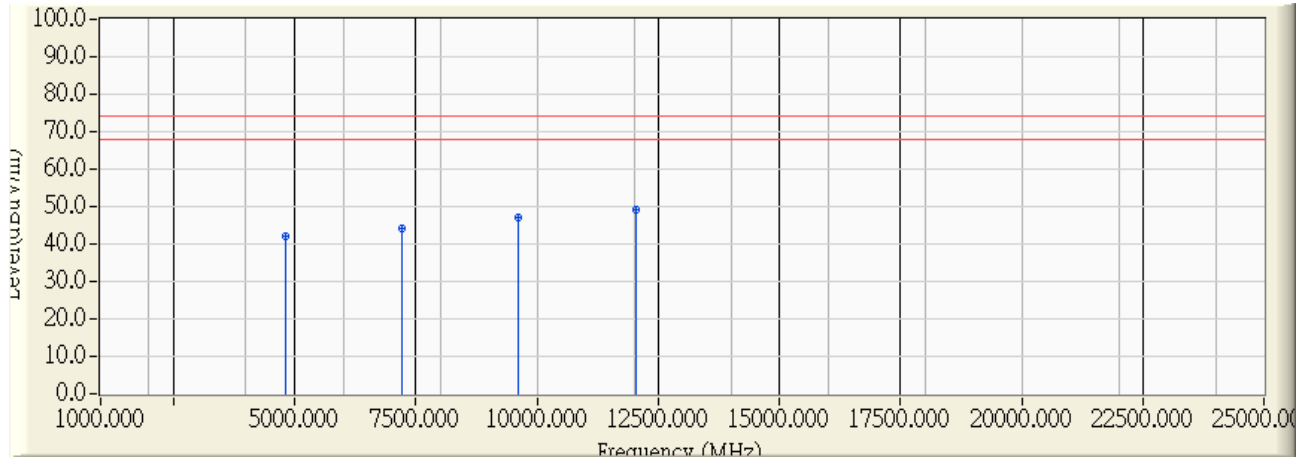


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4823.760	-0.803	39.417	38.613	-35.387	54.000	74.000	PEAK
2	7238.880	5.503	38.296	43.799	-30.201	54.000	74.000	PEAK
3	9667.740	9.373	38.045	47.419	-26.581	54.000	74.000	PEAK
4	* 12063.960	11.523	37.839	49.363	-24.637	54.000	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 : 2013/05/07 - 11:13
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11b_CH1

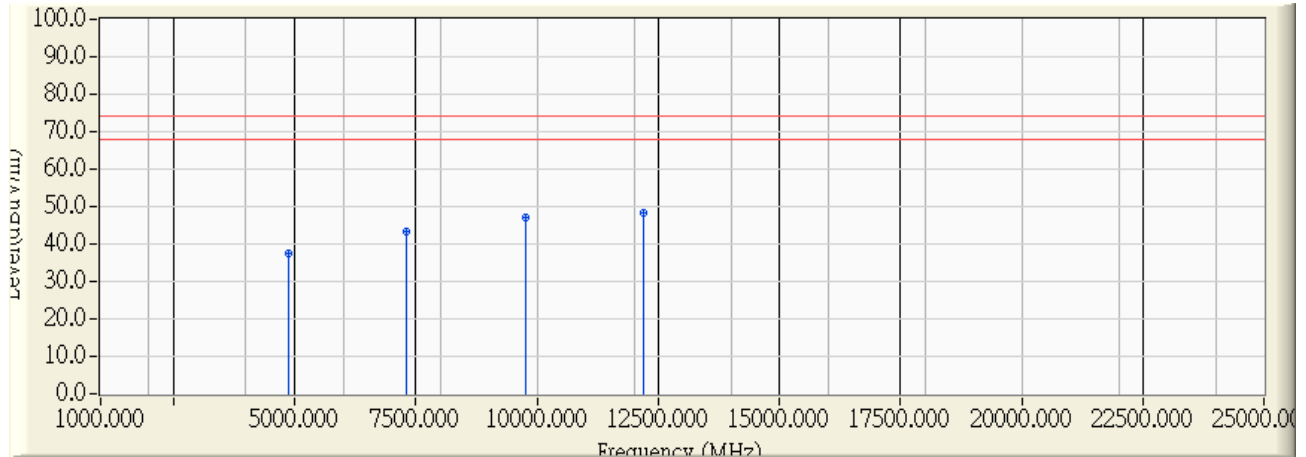


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4823.820	-0.803	43.024	42.220	-31.780	54.000	74.000	PEAK
2	7223.580	5.466	38.630	44.097	-29.903	54.000	74.000	PEAK
3	9624.720	9.062	38.161	47.223	-26.777	54.000	74.000	PEAK
4	* 12051.300	11.528	37.464	48.992	-25.008	54.000	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 : 2013/05/08 - 14:52
Limit : FCC_B_(Above_1G)_3M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11b_CH6

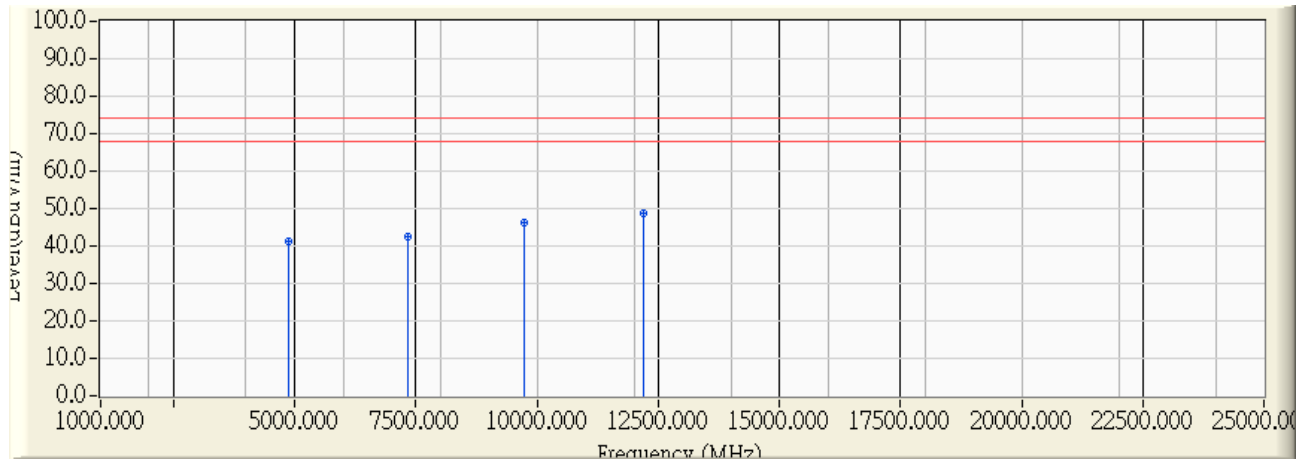


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4881.400	-0.652	37.977	37.324	-36.676	54.000	74.000	PEAK
2	7303.300	5.659	37.617	43.276	-30.724	54.000	74.000	PEAK
3	9767.950	10.100	37.048	47.148	-26.852	54.000	74.000	PEAK
4	* 12200.650	11.476	36.726	48.202	-25.798	54.000	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 : 2013/05/08 - 14:55
Limit : FCC_B_(Above_1G)_3M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11b_CH6

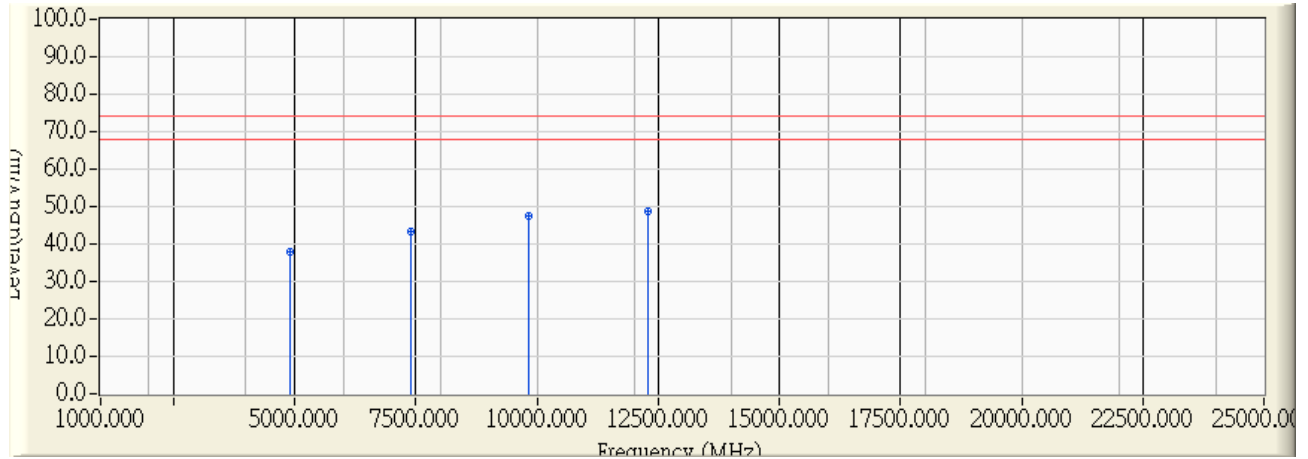


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4874.050	-0.672	42.059	41.387	-32.613	54.000	74.000	PEAK
2	7325.200	5.711	36.832	42.544	-31.456	54.000	74.000	PEAK
3	9747.100	9.950	36.133	46.082	-27.918	54.000	74.000	PEAK
4	* 12202.150	11.475	37.075	48.550	-25.450	54.000	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 : 2013/05/08 - 14:48
Limit : FCC_B_(Above_1G)_3M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11b_CH11

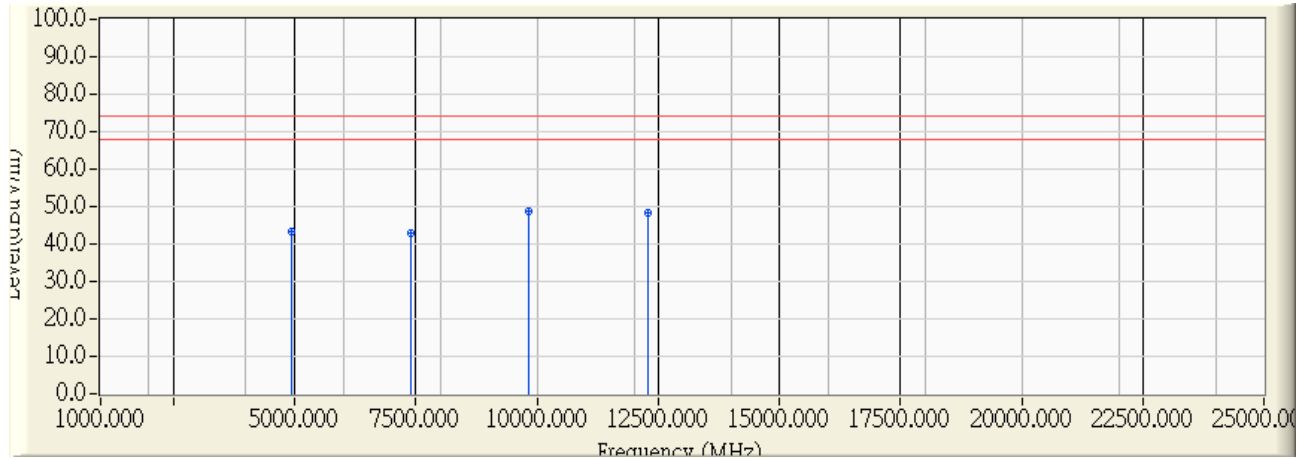


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4902.750	-0.596	38.415	37.819	-36.181	54.000	74.000	PEAK
2	7397.200	5.885	37.583	43.468	-30.532	54.000	74.000	PEAK
3	9844.400	10.654	36.899	47.553	-26.447	54.000	74.000	PEAK
4	* 12305.600	11.438	37.443	48.882	-25.118	54.000	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 : 2013/05/08 - 14:45
Limit : FCC_B_(Above_1G)_3M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11b_CH11

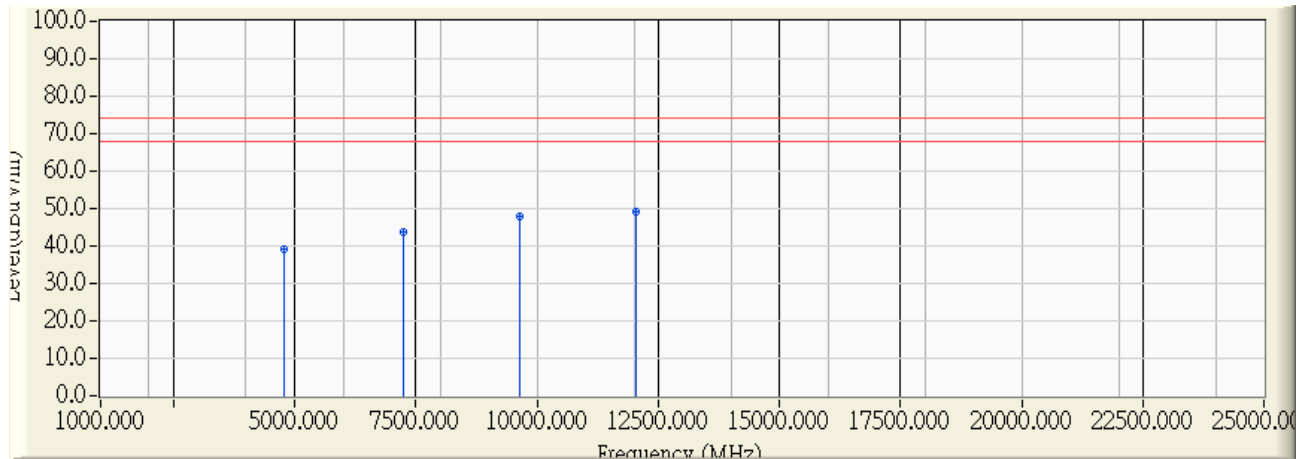


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4924.150	-0.541	43.878	43.338	-30.662	54.000	74.000	PEAK
2	7390.500	5.869	37.140	43.009	-30.991	54.000	74.000	PEAK
3	* 9839.300	10.618	38.156	48.773	-25.227	54.000	74.000	PEAK
4	12287.650	11.445	36.794	48.239	-25.761	54.000	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 : 2013/05/07 - 11:25
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11g_CH1

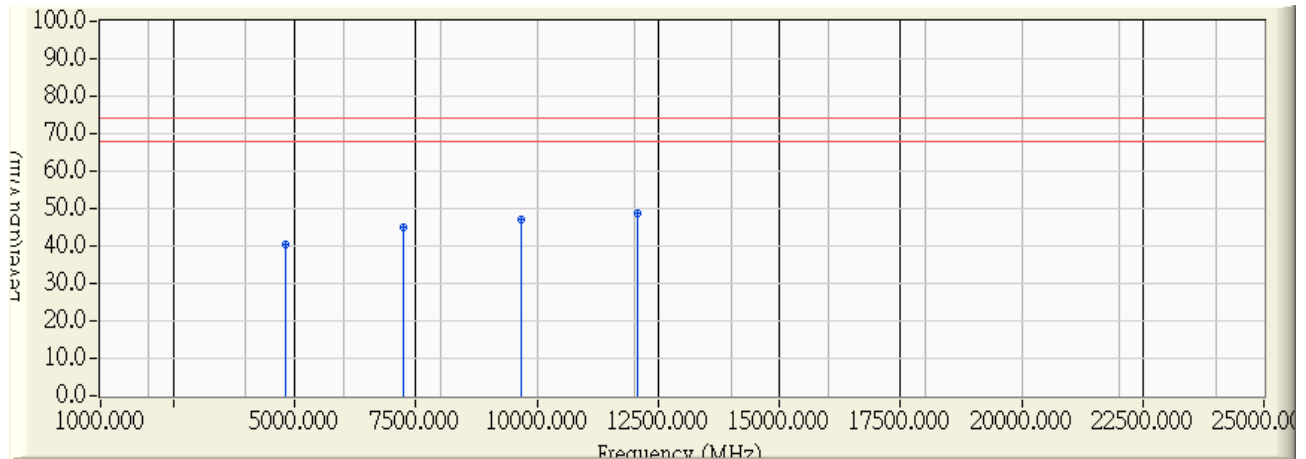


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4799.220	-0.868	39.844	38.976	-35.024	54.000	74.000	PEAK
2	7247.460	5.525	38.379	43.903	-30.097	54.000	74.000	PEAK
3	9658.620	9.307	38.510	47.818	-26.182	54.000	74.000	PEAK
4	* 12031.620	11.535	37.610	49.145	-24.855	54.000	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 : 2013/05/07 - 11:29
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11g_CH1

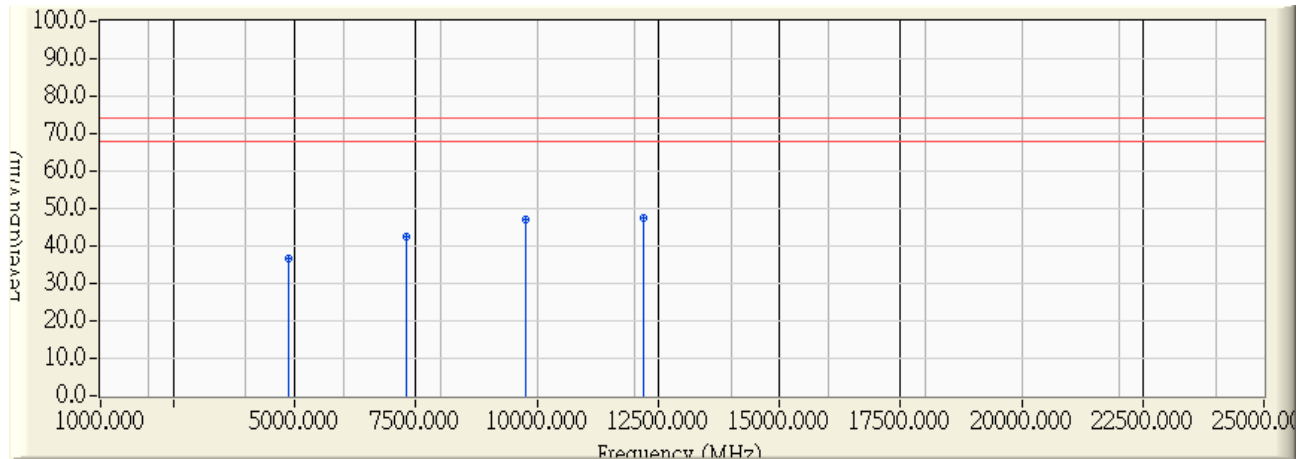


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4827.720	-0.793	41.190	40.397	-33.603	54.000	74.000	PEAK
2	7238.700	5.502	39.330	44.833	-29.167	54.000	74.000	PEAK
3	9662.100	9.333	37.950	47.283	-26.717	54.000	74.000	PEAK
4	* 12066.300	11.523	37.390	48.913	-25.087	54.000	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 : 2013/05/08 - 15:00
Limit : FCC_B_(Above_1G)_3M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11g_CH6

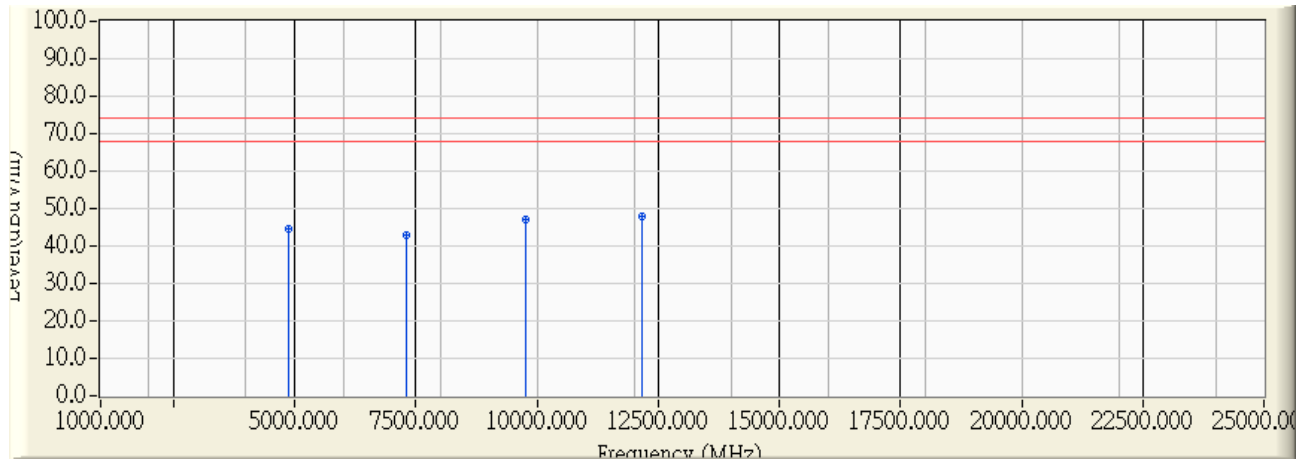


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4869.150	-0.685	37.559	36.874	-37.126	54.000	74.000	PEAK
2	7297.650	5.644	36.788	42.433	-31.567	54.000	74.000	PEAK
3	9765.800	10.084	37.000	47.084	-26.916	54.000	74.000	PEAK
4	* 12193.100	11.478	35.917	47.395	-26.605	54.000	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 : 2013/05/08 - 14:58
Limit : FCC_B_(Above_1G)_3M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11g_CH6

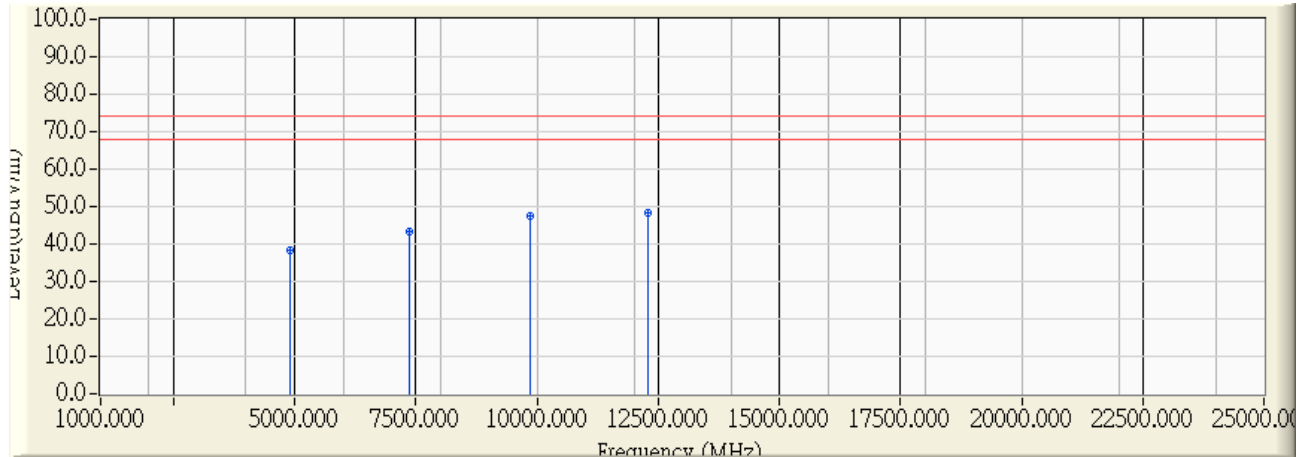


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4873.300	-0.673	45.450	44.776	-29.224	54.000	74.000	PEAK
2	7304.450	5.662	37.100	42.762	-31.238	54.000	74.000	PEAK
3	9771.800	10.128	36.989	47.117	-26.883	54.000	74.000	PEAK
4	* 12172.000	11.486	36.483	47.969	-26.031	54.000	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 : 2013/05/08 - 12:00
Limit : FCC_B_(Above_1G)_3M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11g_CH11

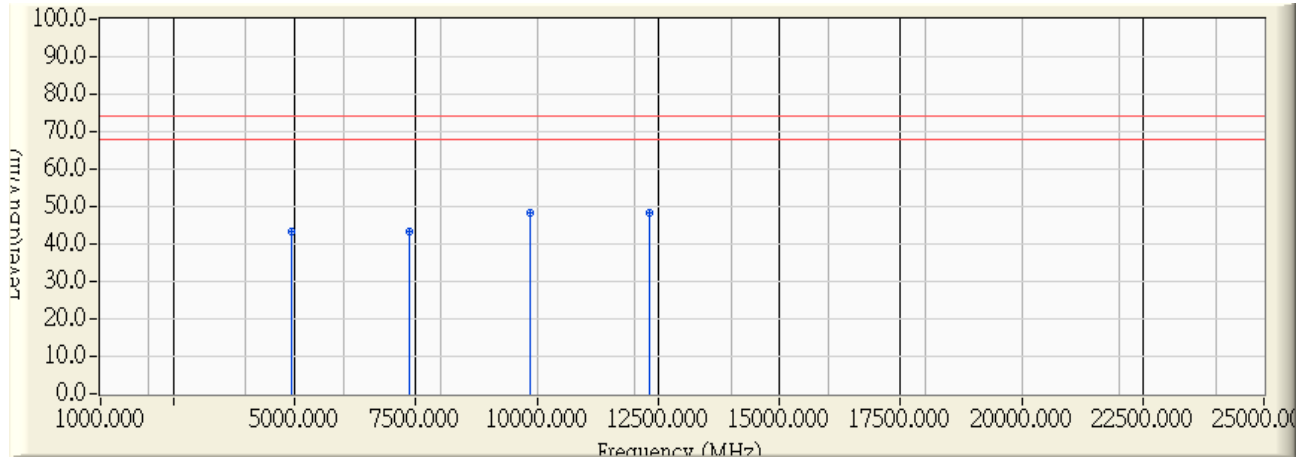


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4902.450	-0.598	38.743	38.146	-35.854	54.000	74.000	PEAK
2	7366.850	5.813	37.387	43.199	-30.801	54.000	74.000	PEAK
3	9846.300	10.669	36.849	47.517	-26.483	54.000	74.000	PEAK
4	* 12297.450	11.442	36.767	48.208	-25.792	54.000	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 : 2013/05/08 - 12:04
Limit : FCC_B_(Above_1G)_3M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11g_CH11

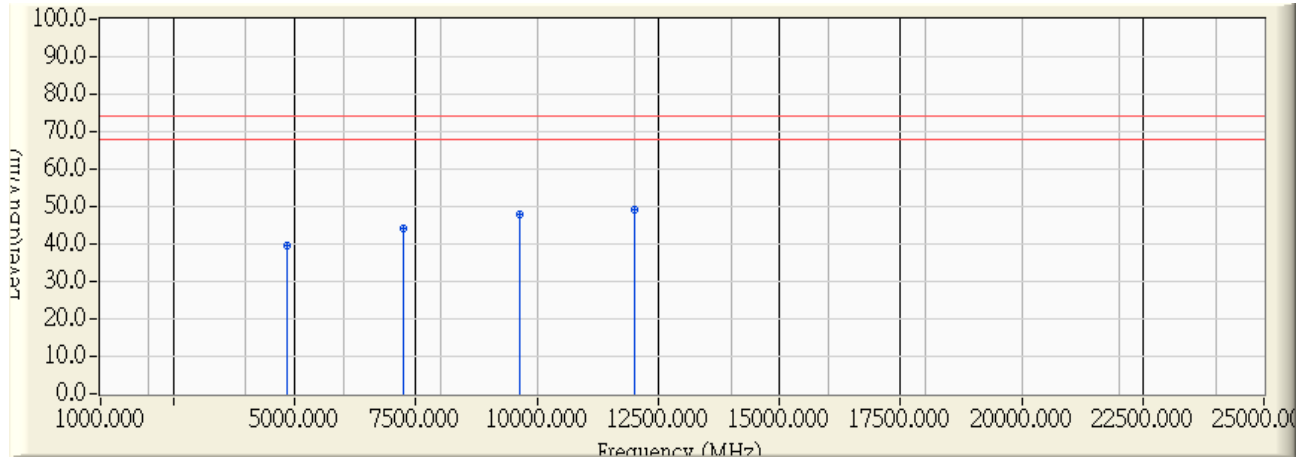


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4928.350	-0.529	43.969	43.440	-30.560	54.000	74.000	PEAK
2	7361.150	5.798	37.605	43.403	-30.597	54.000	74.000	PEAK
3	* 9870.400	10.842	37.538	48.381	-25.619	54.000	74.000	PEAK
4	12327.550	11.430	36.923	48.354	-25.646	54.000	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 : 2013/05/07 - 11:40
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11n20M_CH1

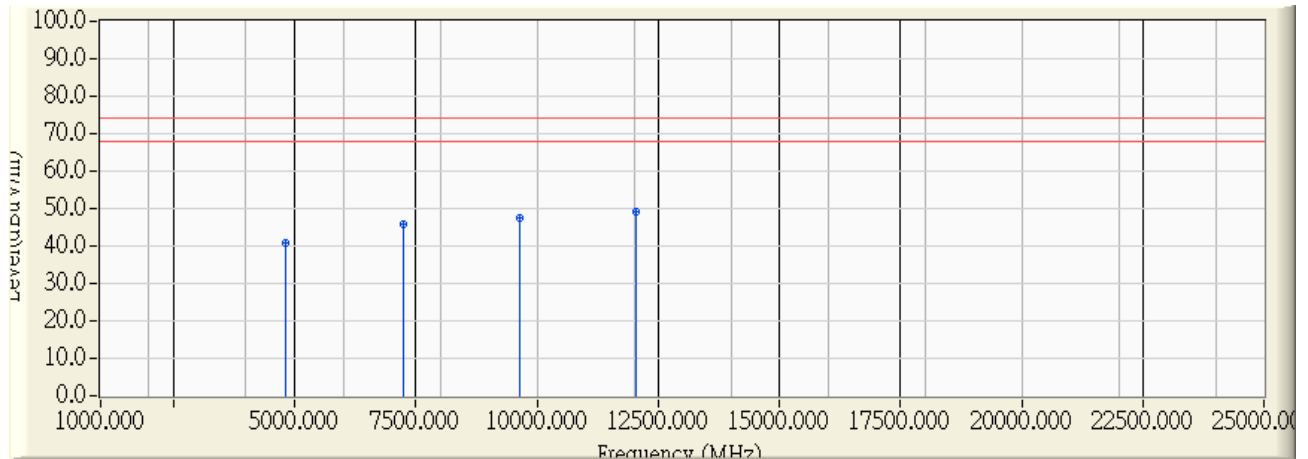


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4836.660	-0.770	40.173	39.403	-34.597	54.000	74.000	PEAK
2	7237.620	5.500	38.480	43.980	-30.020	54.000	74.000	PEAK
3	9639.120	9.167	38.581	47.747	-26.253	54.000	74.000	PEAK
4	* 12030.180	11.536	37.481	49.017	-24.983	54.000	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 : 2013/05/07 - 11:35
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11n20M_CH1

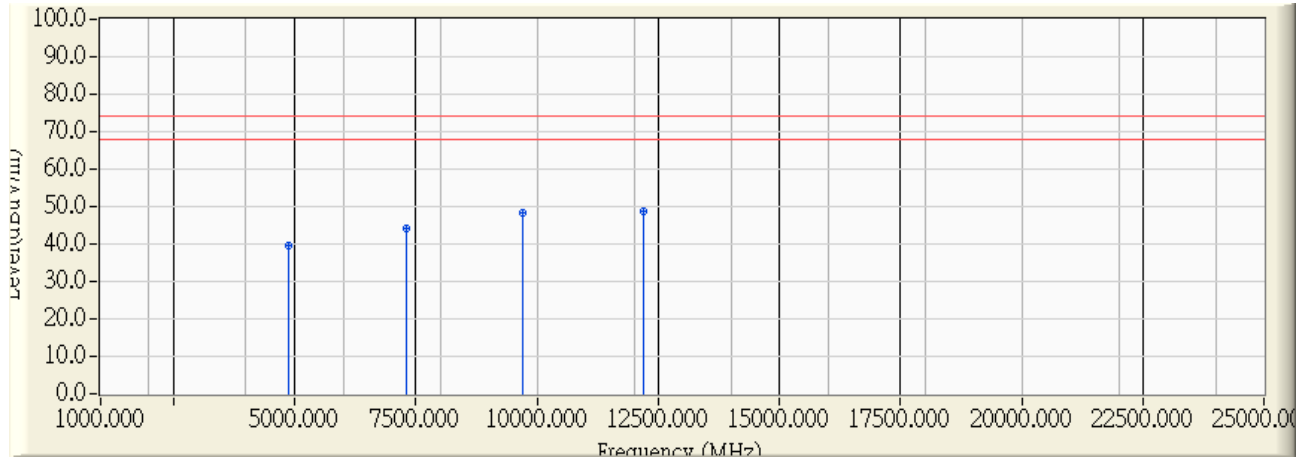


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4824.300	-0.802	41.490	40.688	-33.312	54.000	74.000	PEAK
2	7239.840	5.506	40.382	45.888	-28.112	54.000	74.000	PEAK
3	9653.100	9.268	38.110	47.378	-26.622	54.000	74.000	PEAK
4	* 12060.660	11.525	37.486	49.011	-24.989	54.000	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 : 2013/05/07 - 11:45
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11n20M_CH6

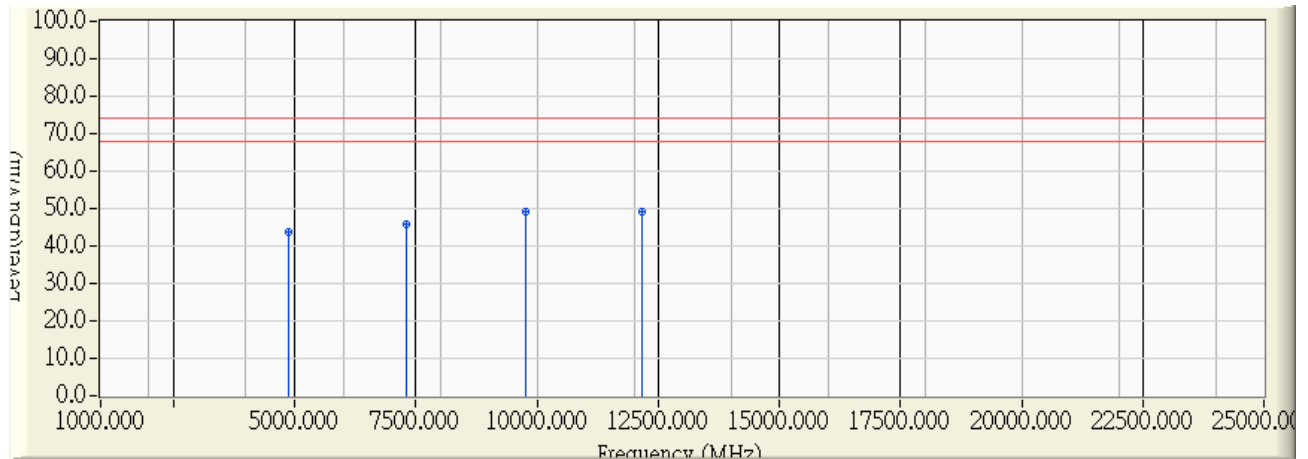


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4871.300	-0.680	40.132	39.453	-34.547	54.000	74.000	PEAK
2	7297.020	5.644	38.334	43.978	-30.022	54.000	74.000	PEAK
3	9722.380	9.770	38.416	48.186	-25.814	54.000	74.000	PEAK
4	* 12210.440	11.471	37.121	48.593	-25.407	54.000	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 : 2013/05/07 - 11:54
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11n20M_CH6

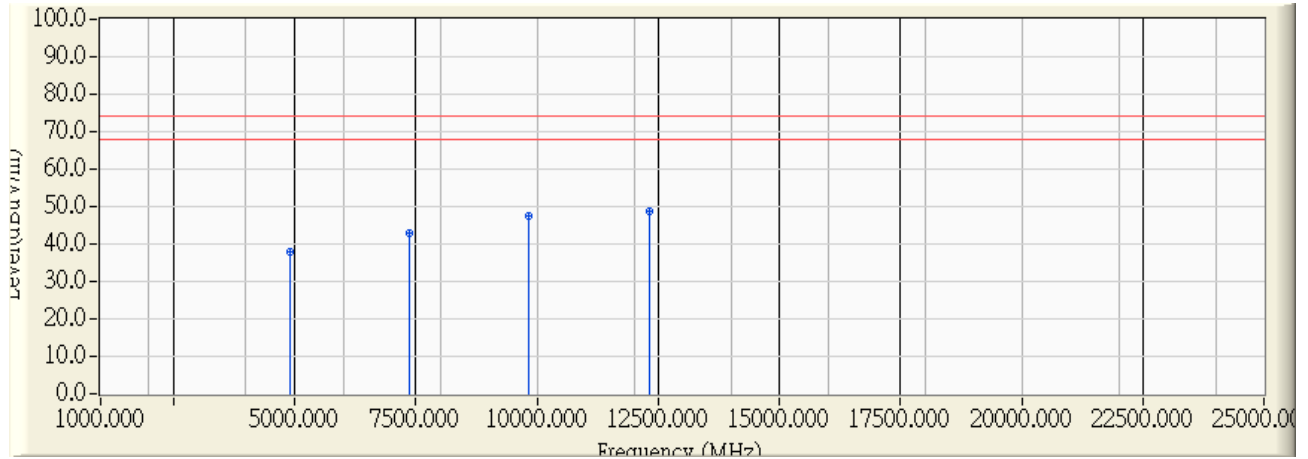


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4882.050	-0.651	44.301	43.650	-30.350	54.000	74.000	PEAK
2	7305.300	5.664	40.377	46.041	-27.959	54.000	74.000	PEAK
3	9755.800	10.012	39.124	49.136	-24.864	54.000	74.000	PEAK
4	* 12166.760	11.488	37.852	49.340	-24.660	54.000	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 : 2013/05/08 - 11:56
Limit : FCC_B_(Above_1G)_3M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11n20M_CH11

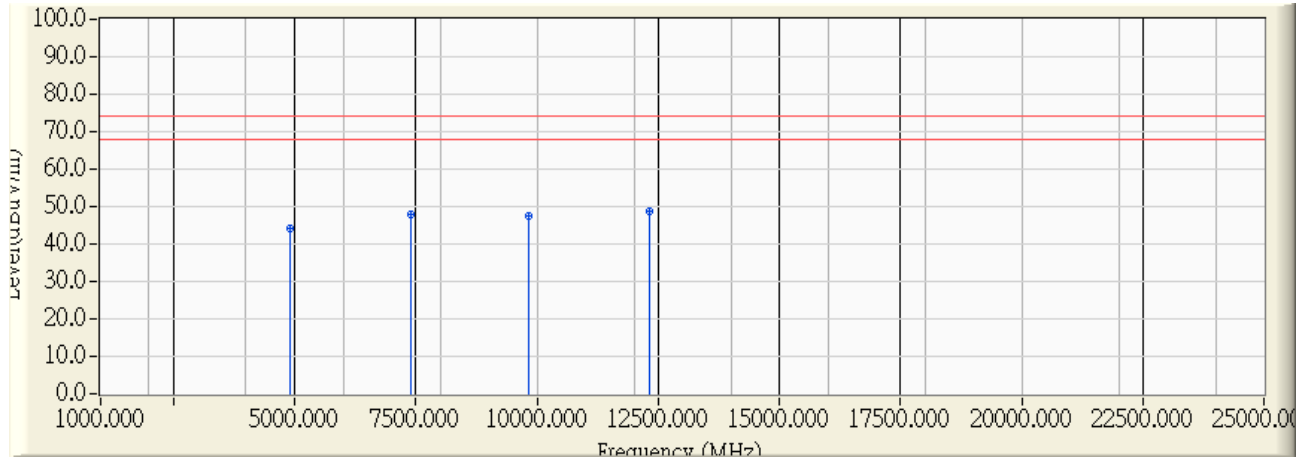


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4904.200	-0.592	38.545	37.952	-36.048	54.000	74.000	PEAK
2	7378.450	5.840	37.155	42.995	-31.005	54.000	74.000	PEAK
3	9840.400	10.625	36.946	47.571	-26.429	54.000	74.000	PEAK
4	* 12328.300	11.431	37.398	48.829	-25.171	54.000	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 : 2013/05/08 - 11:52
Limit : FCC_B_(Above_1G)_3M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11n20M_CH11

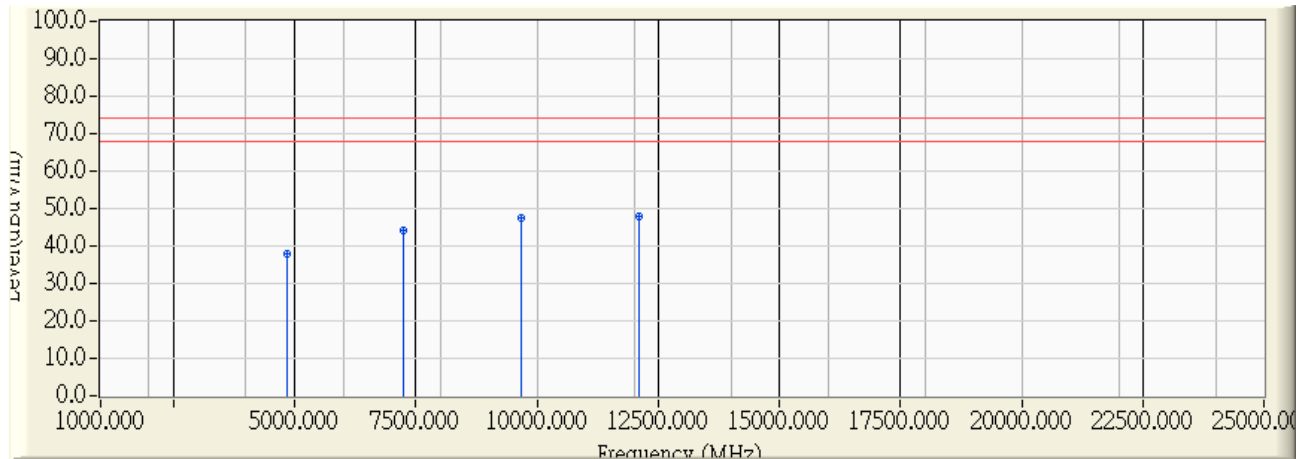


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4922.800	-0.543	44.852	44.308	-29.692	54.000	74.000	PEAK
2	7394.750	5.880	41.882	47.761	-26.239	54.000	74.000	PEAK
3	9838.900	10.614	37.031	47.645	-26.355	54.000	74.000	PEAK
4	* 12324.850	11.432	37.340	48.772	-25.228	54.000	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 : 2013/05/08 - 11:18
Limit : FCC_B_(Above_1G)_3M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11n40M_CH3

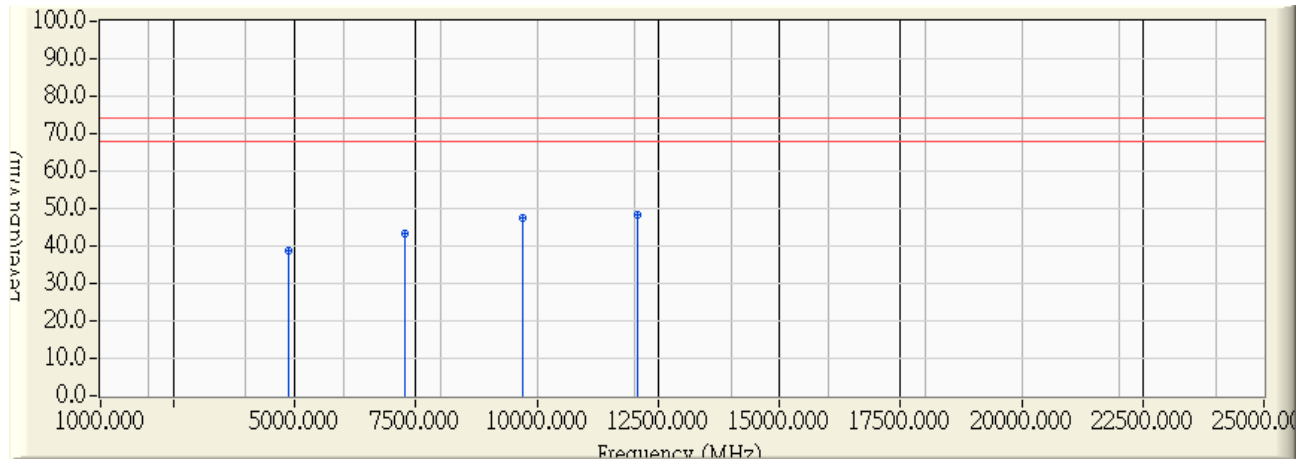


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4861.500	-0.705	38.429	37.724	-36.276	54.000	74.000	PEAK
2	7252.700	5.536	38.455	43.992	-30.008	54.000	74.000	PEAK
3	9688.000	9.520	37.814	47.335	-26.665	54.000	74.000	PEAK
4	* 12108.450	11.508	36.435	47.943	-26.057	54.000	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 : 2013/05/08 - 11:24
Limit : FCC_B_(Above_1G)_3M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11n40M_CH3

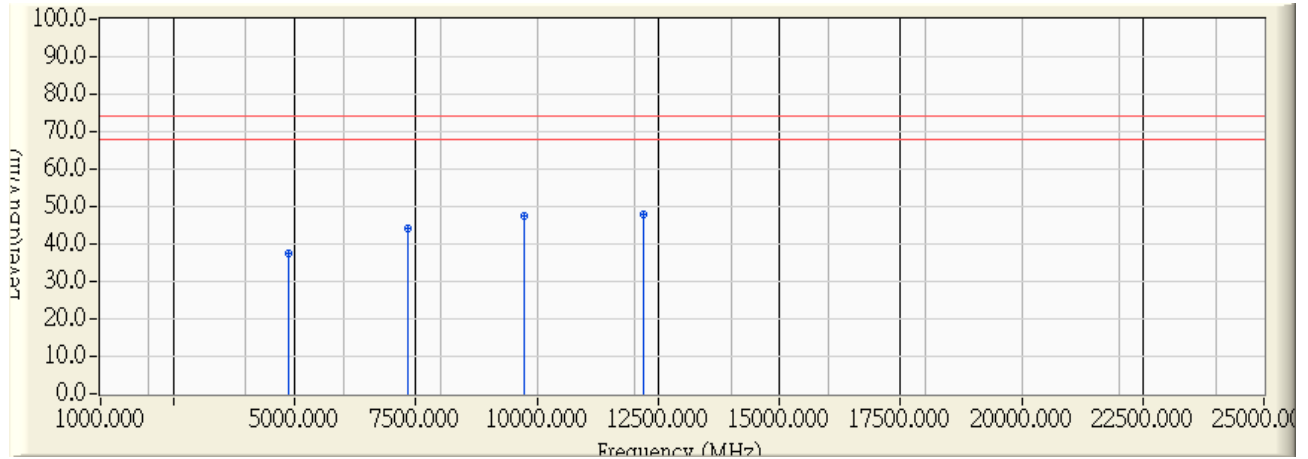


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4864.700	-0.697	39.309	38.613	-35.387	54.000	74.000	PEAK
2	7265.450	5.568	37.954	43.521	-30.479	54.000	74.000	PEAK
3	9708.600	9.670	37.877	47.547	-26.453	54.000	74.000	PEAK
4	* 12091.750	11.514	36.800	48.314	-25.686	54.000	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 : 2013/05/08 - 11:33
Limit : FCC_B_(Above_1G)_3M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11n40M_CH6

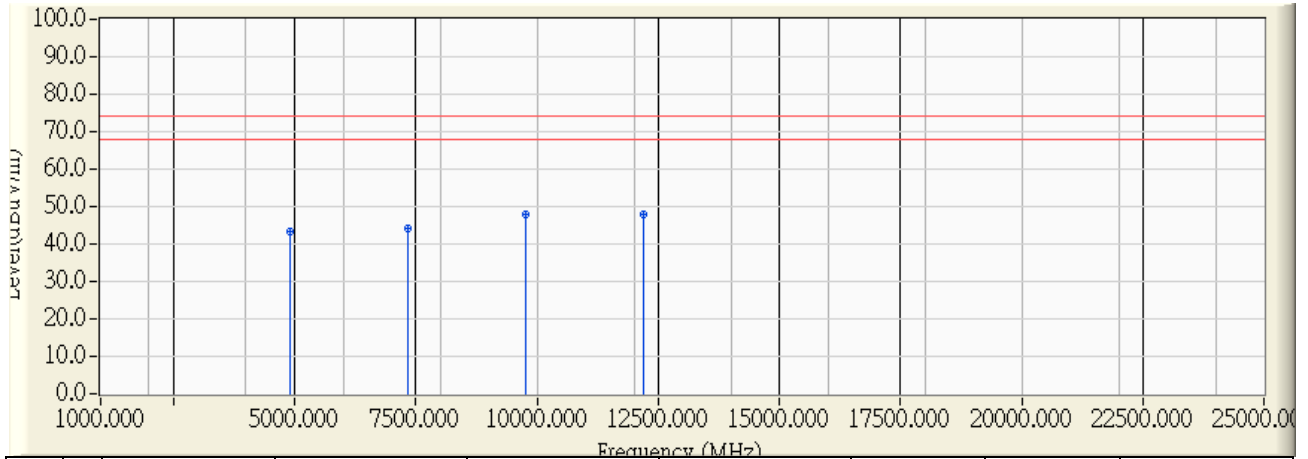


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4861.800	-0.705	38.365	37.661	-36.339	54.000	74.000	PEAK
2	7325.250	5.711	38.312	44.024	-29.976	54.000	74.000	PEAK
3	9748.850	9.962	37.745	47.707	-26.293	54.000	74.000	PEAK
4	* 12204.050	11.474	36.490	47.964	-26.036	54.000	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 : 2013/05/08 - 11:29
Limit : FCC_B_(Above_1G)_3M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11n40M_CH6

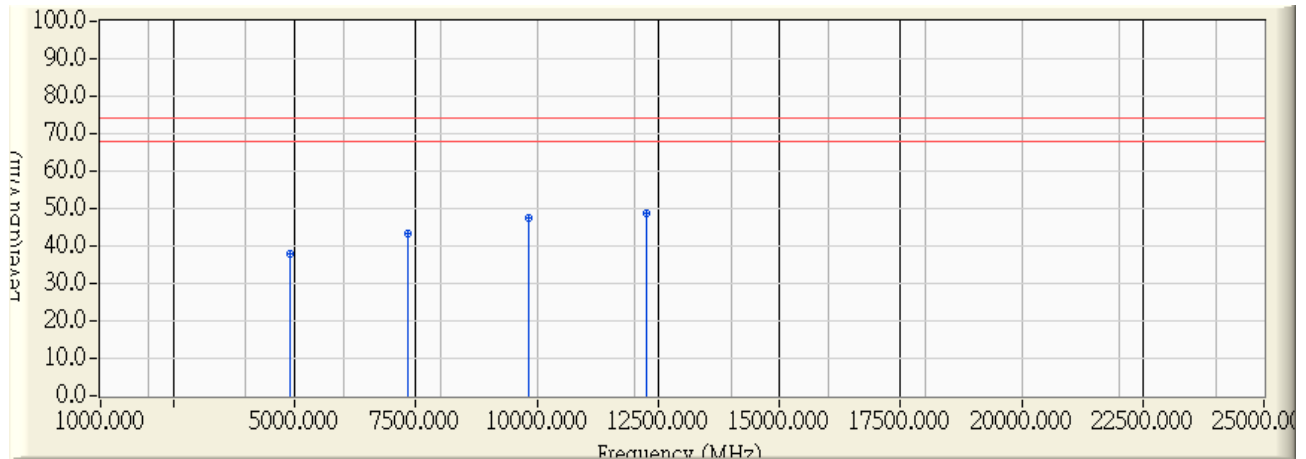


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4898.800	-0.606	44.044	43.437	-30.563	74.000	PEAK
2	7330.400	5.725	38.361	44.085	-29.915	74.000	PEAK
3	9762.700	10.062	37.755	47.817	-26.183	74.000	PEAK
4	* 12207.450	11.474	36.410	47.883	-26.117	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 : 2013/05/08 - 11:38
Limit : FCC_B_(Above_1G)_3M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11n40M_CH9

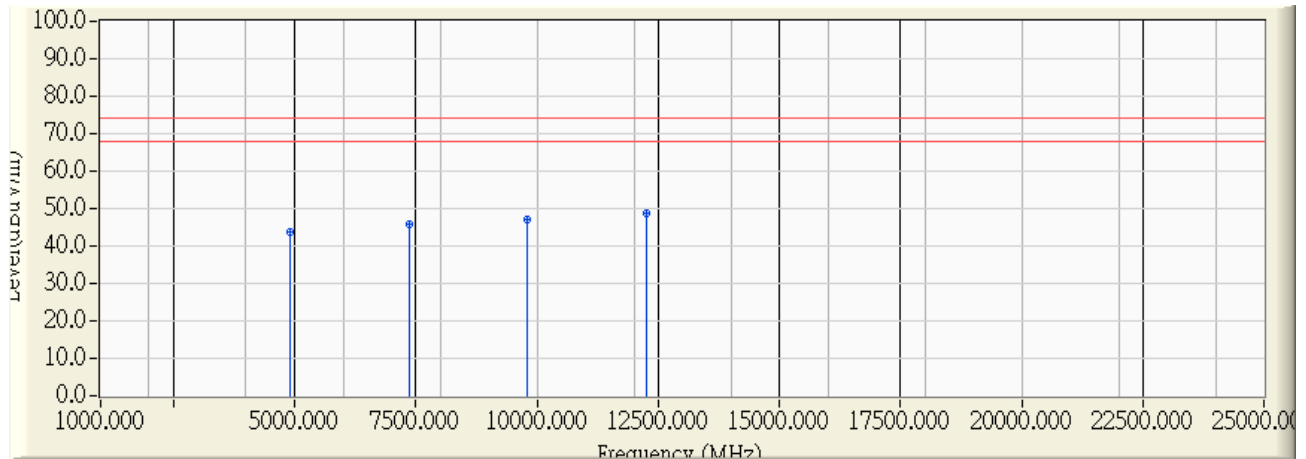


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4901.750	-0.600	38.483	37.884	-36.116	54.000	74.000	PEAK
2	7344.750	5.759	37.620	43.379	-30.621	54.000	74.000	PEAK
3	9827.650	10.533	37.110	47.643	-26.357	54.000	74.000	PEAK
4	* 12276.750	11.449	37.320	48.769	-25.231	54.000	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 : 2013/05/08 - 11:43
Limit : FCC_B_(Above_1G)_3M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11n40M_CH9

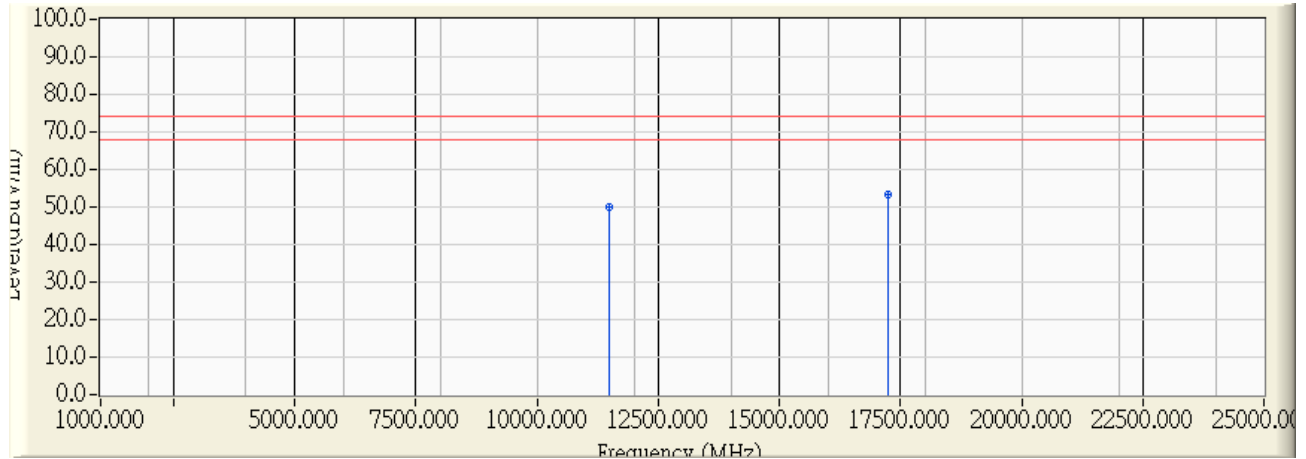


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4922.750	-0.543	44.483	43.939	-30.061	54.000	74.000	PEAK
2	7375.350	5.833	40.162	45.995	-28.005	54.000	74.000	PEAK
3	9797.550	10.314	36.881	47.196	-26.804	54.000	74.000	PEAK
4	* 12263.300	11.453	37.413	48.867	-25.133	54.000	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 : 2013/05/07 - 09:50
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V \pm 5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11a_CH149

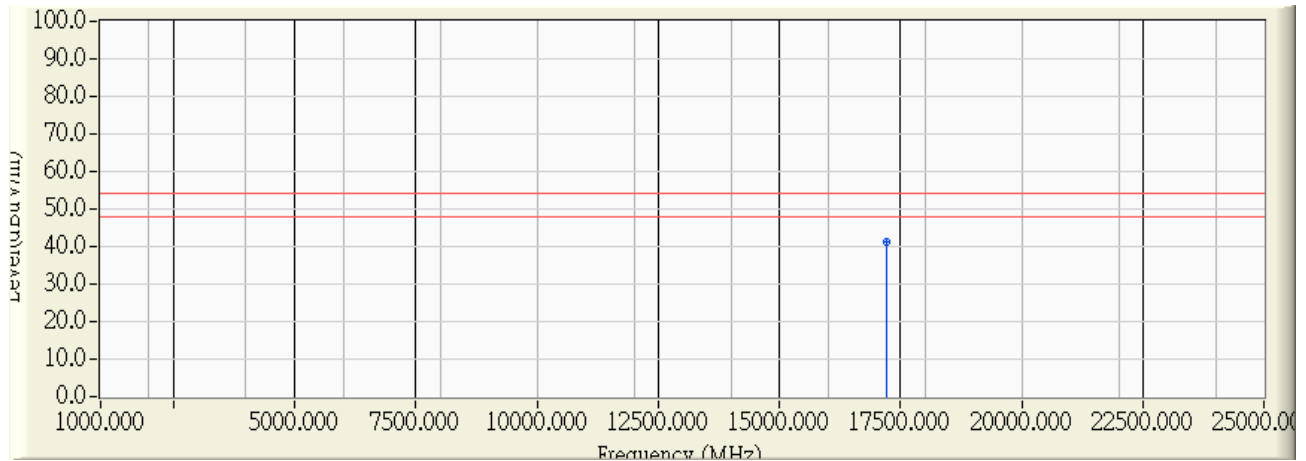


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	11495.950	12.131	37.705	49.836	-24.164	54.000	74.000	PEAK
2	* 17233.150	15.733	37.598	53.331	-20.669	54.000	74.000	PEAK

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 : 2013/05/07 - 09:55
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V \pm 5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11a_CH149

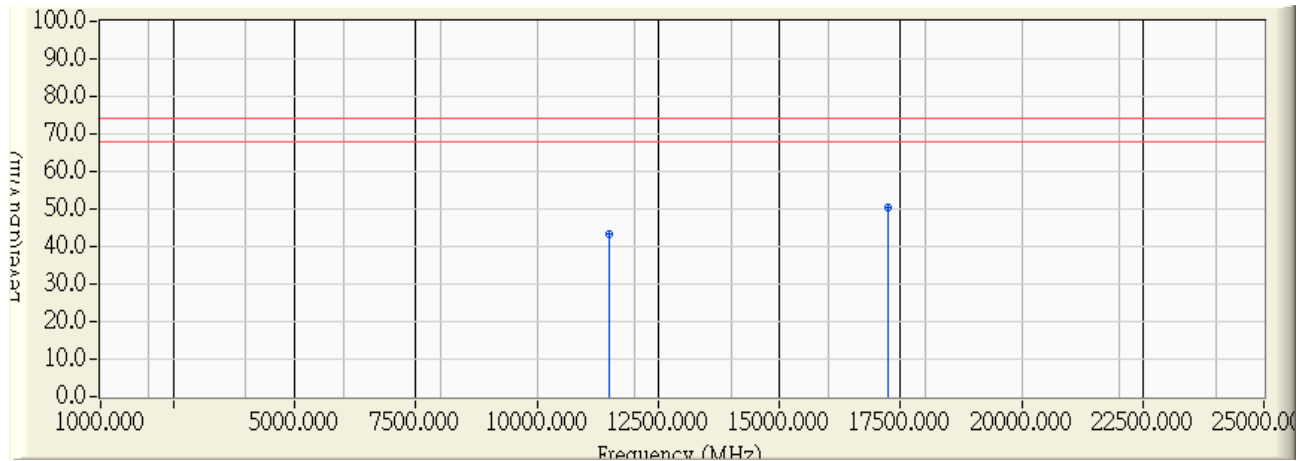


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	*	17211.600	15.645	25.787	41.432	-12.568	54.000	74.000	AVERAGE

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 : 2013/05/07 - 09:46
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11a_CH149

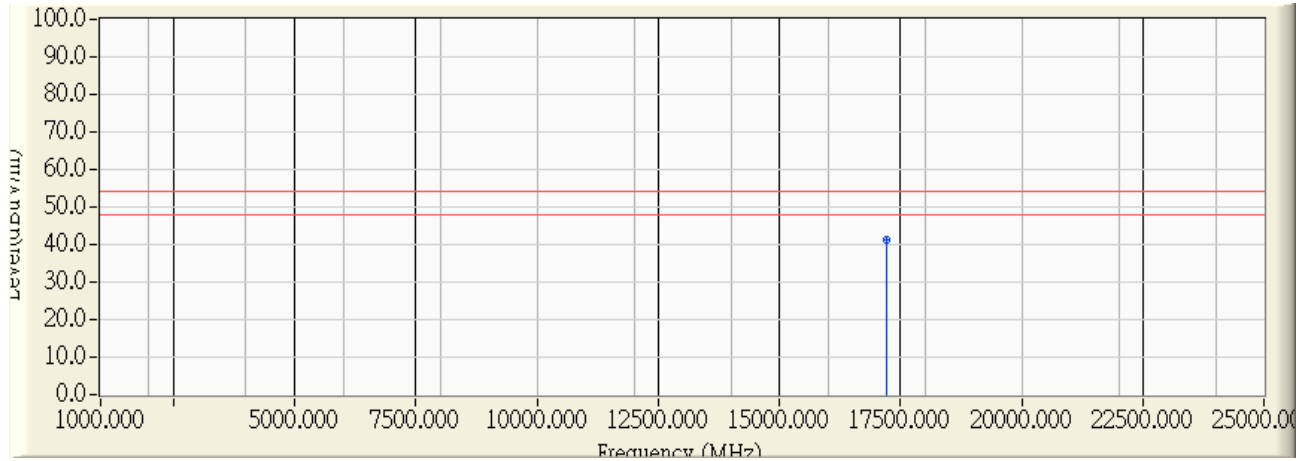


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	11499.850	12.128	31.172	43.300	-30.700	54.000	74.000	PEAK
2	* 17233.000	15.733	34.689	50.421	-23.579	54.000	74.000	PEAK

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 : 2013/05/07 - 09:54
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V \pm 5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11a_CH149

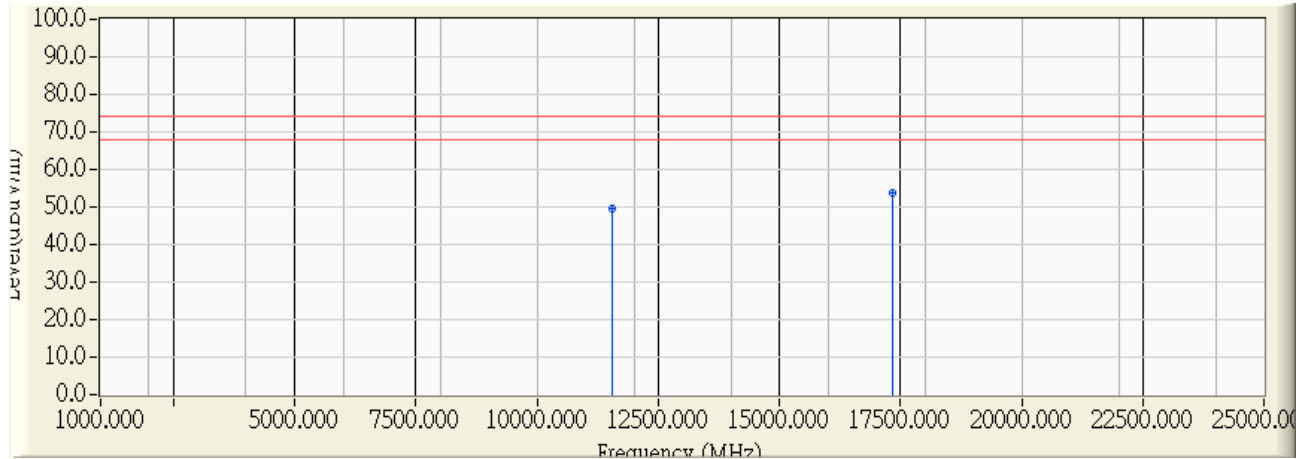


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	*	17210.000	15.639	25.792	41.431	-12.569	54.000	74.000	AVERAGEP

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 : 2013/05/07 - 10:17
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V \pm 5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11a_CH157

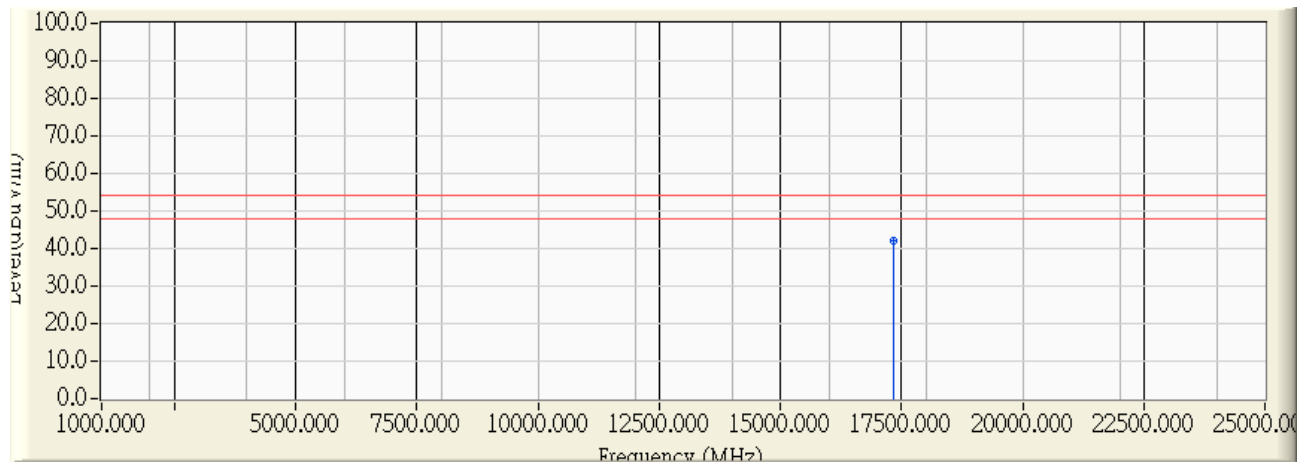


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	11545.200	12.078	37.314	49.391	-24.609	54.000	74.000	PEAK
2	* 17333.850	16.142	37.598	53.740	-20.260	54.000	74.000	PEAK

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 : 2013/05/07 - 10:18
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11a_CH157

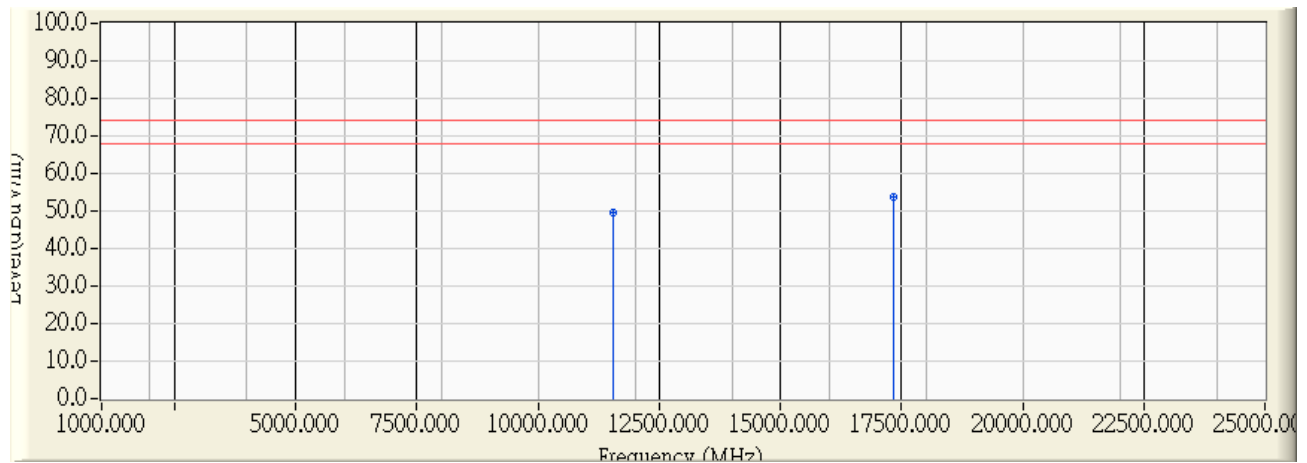


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	*	17333.850	16.142	25.785	41.927	-12.073	54.000	74.000	AVERAGE

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 : 2013/05/07 - 10:21
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V \pm 5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11a_CH157

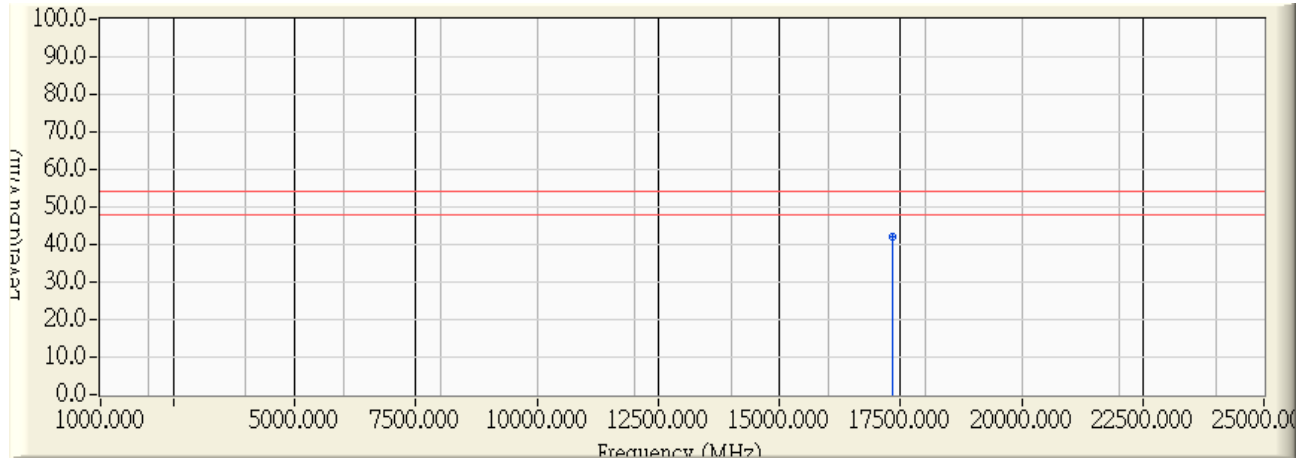


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	11552.450	12.070	37.538	49.607	-24.393	54.000	74.000	PEAK
2	* 17338.200	16.160	37.764	53.924	-20.076	54.000	74.000	PEAK

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 : 2013/05/07 - 10:22
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V \pm 5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11a_CH157

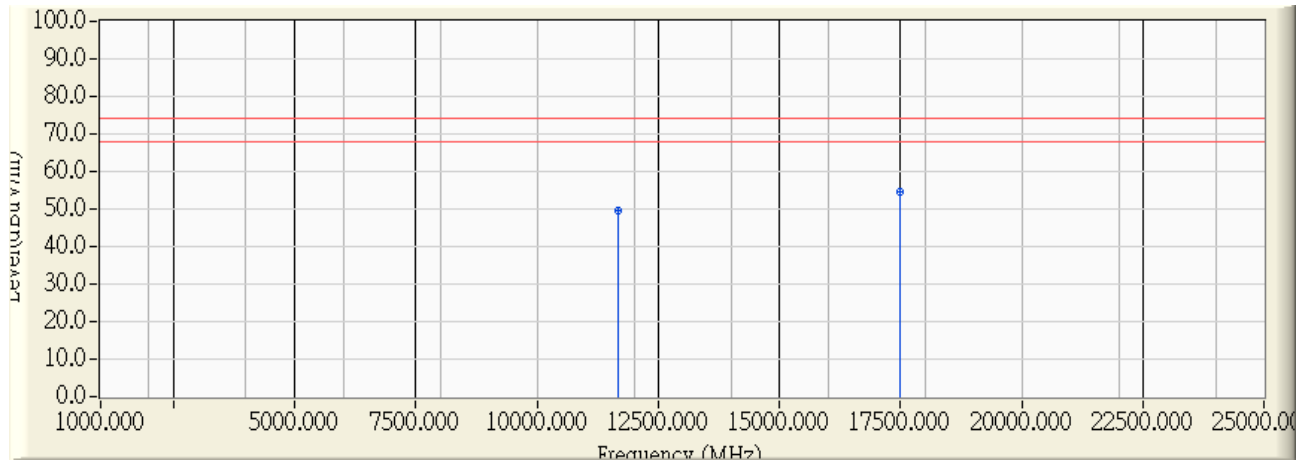


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	*	17334.450	16.145	25.789	41.934	-12.066	54.000	74.000	AVERAGE

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 : 2013/05/07 - 10:29
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V \pm 5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11a_CH165

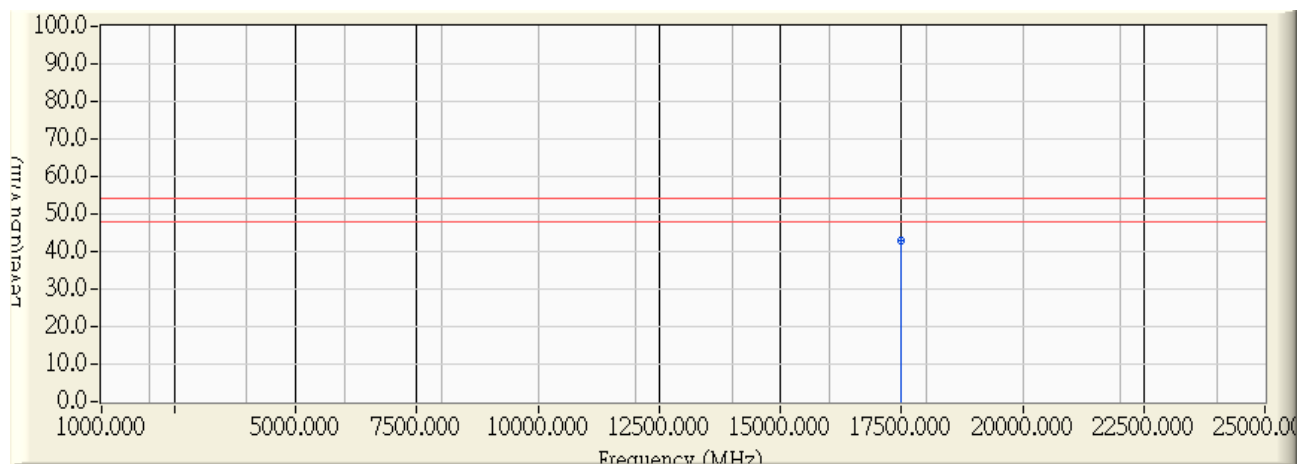


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	11667.500	11.935	37.633	49.568	-24.432	54.000	74.000	PEAK
2	* 17486.300	16.762	37.910	54.672	-19.328	54.000	74.000	PEAK

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 : 2013/05/07 - 10:30
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V \pm 5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11a_CH165

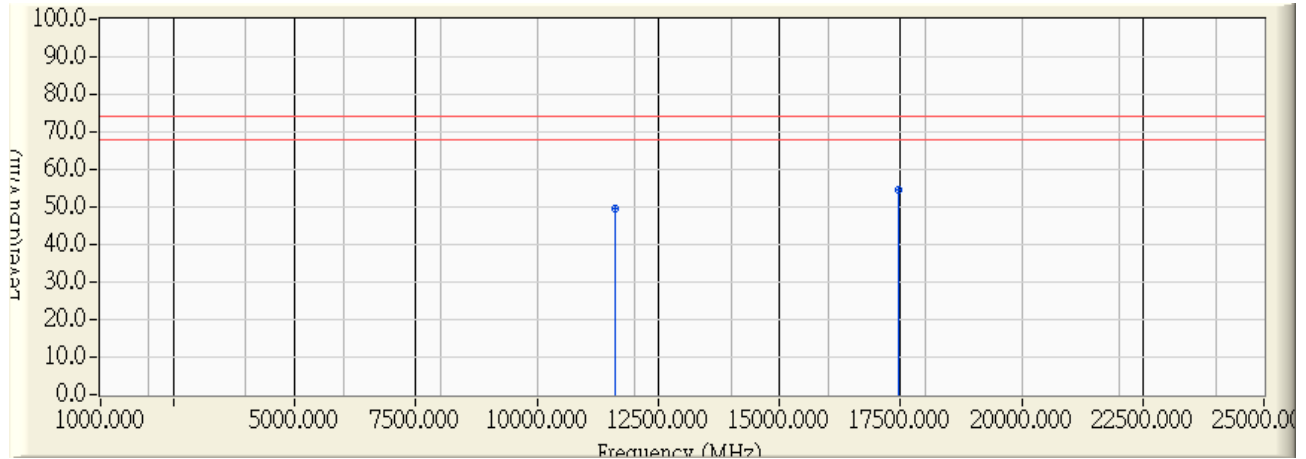


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	*	17499.200	16.840	25.955	42.795	-11.205	54.000	74.000	AVERAGE

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 : 2013/05/07 - 10:25
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11a_CH165

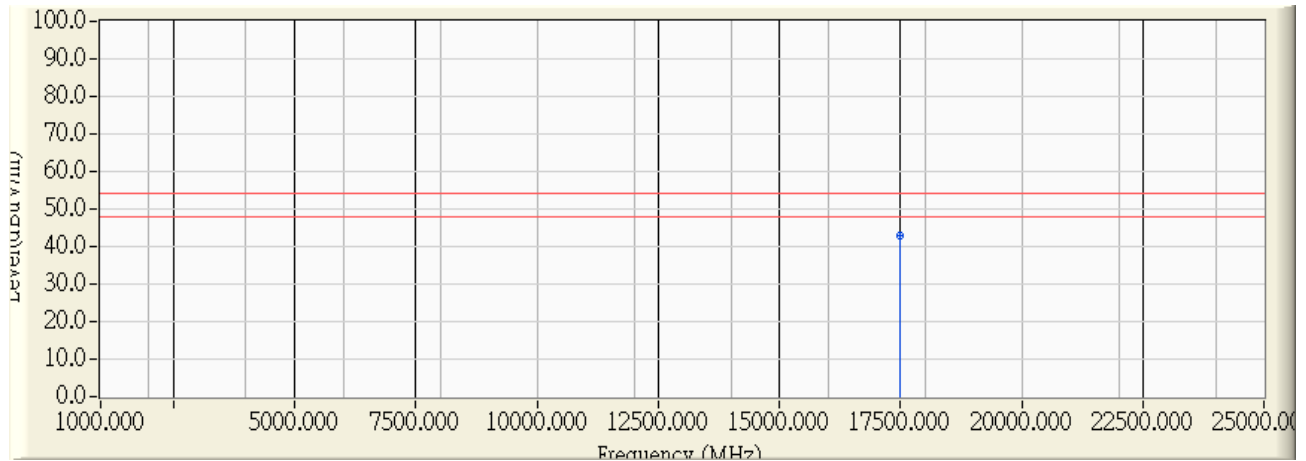


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	11630.000	11.979	37.464	49.443	-24.557	54.000	74.000	PEAK
2	* 17463.000	16.668	37.911	54.578	-19.422	54.000	74.000	PEAK

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 : 2013/05/07 - 10:27
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V \pm 5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11a_CH165

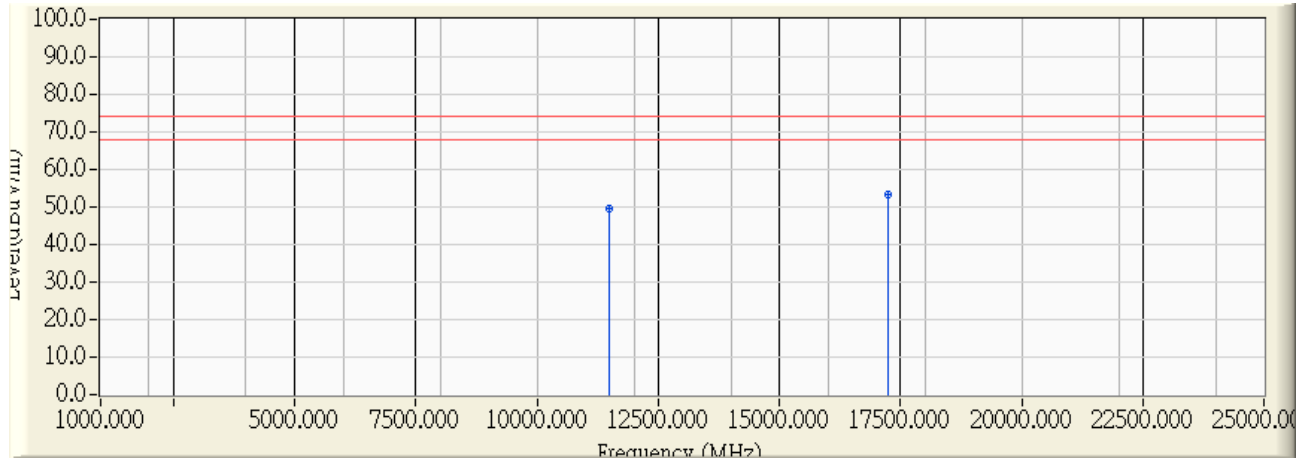


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	*	17492.800	16.797	25.954	42.751	-11.249	54.000	74.000	AVERAGE

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 : 2013/05/07 - 10:01
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V \pm 5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11n20M_CH149

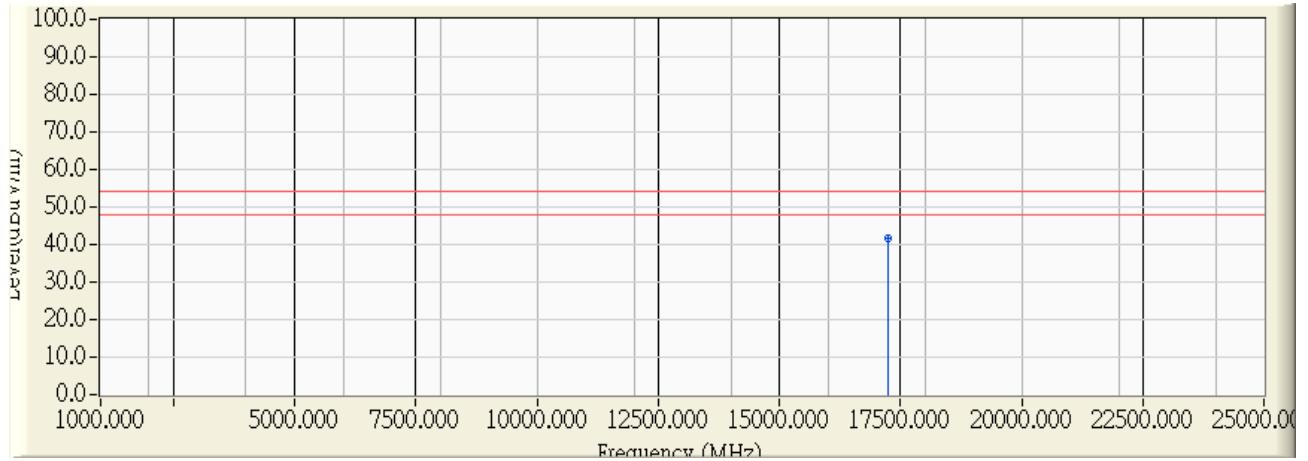


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	11483.650	12.138	37.606	49.745	-24.255	54.000	74.000	PEAK
2	* 17257.050	15.830	37.599	53.429	-20.571	54.000	74.000	PEAK

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 : 2013/05/07 - 10:02
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V \pm 5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11n20M_CH149

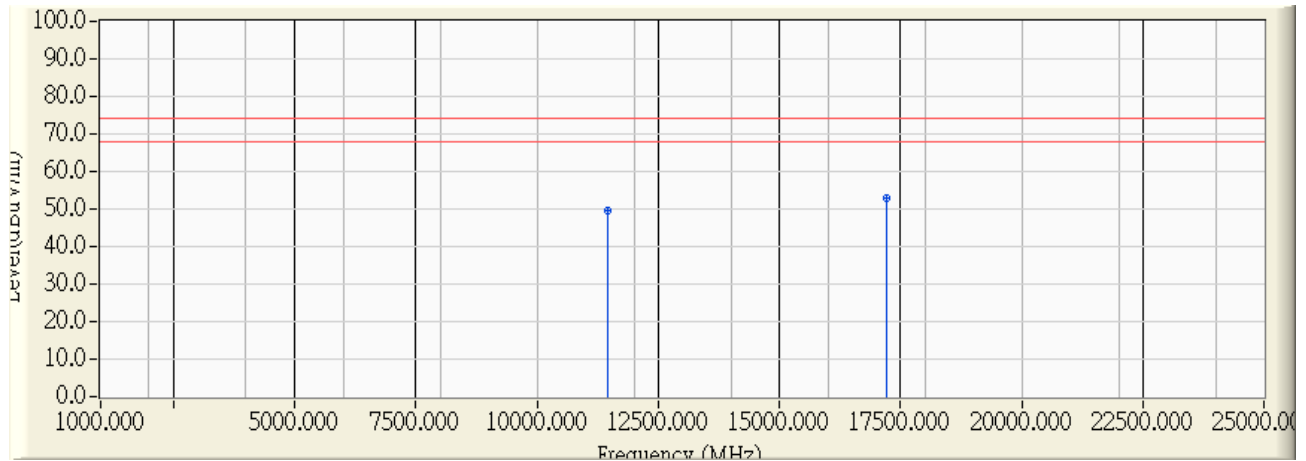


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	*	17253.550	15.816	25.786	41.602	-12.398	54.000	74.000	AVERAGE

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 : 2013/05/07 - 10:04
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V \pm 5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11n20M_CH149

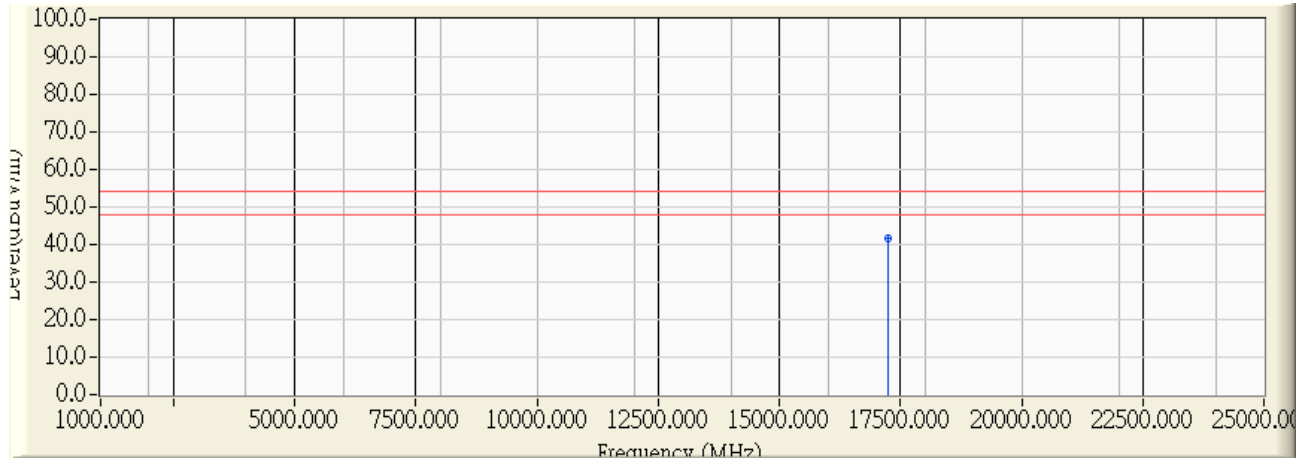


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	11471.900	12.144	37.541	49.685	-24.315	54.000	74.000	PEAK
2	* 17226.550	15.706	37.416	53.122	-20.878	54.000	74.000	PEAK

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 : 2013/05/07 - 10:05
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V \pm 5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11n20M_CH149

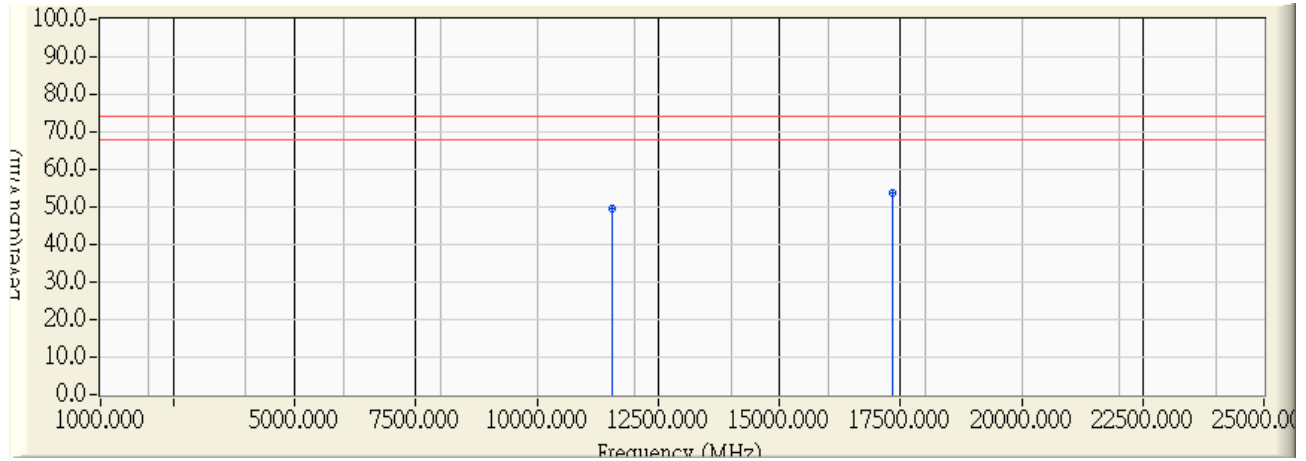


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	*	17234.800	15.739	25.781	41.520	-12.480	54.000	74.000	AVERAGE

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 : 2013/05/07 - 10:13
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11n20M_CH157

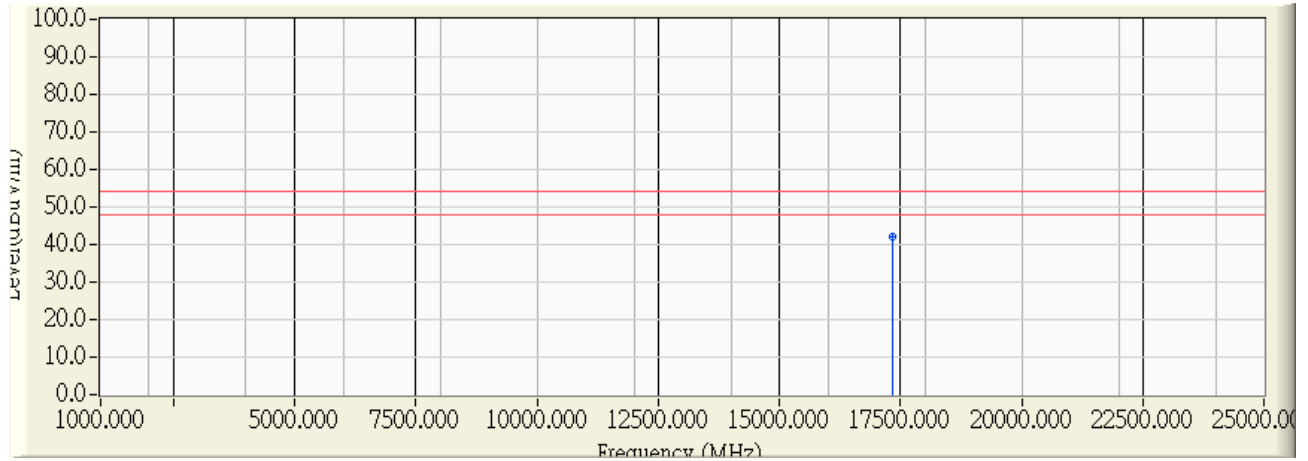


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	11566.850	12.052	37.671	49.723	-24.277	54.000	74.000	PEAK
2	* 17340.850	16.171	37.384	53.555	-20.445	54.000	74.000	PEAK

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 : 2013/05/07 - 10:13
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V \pm 5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11n20M_CH157

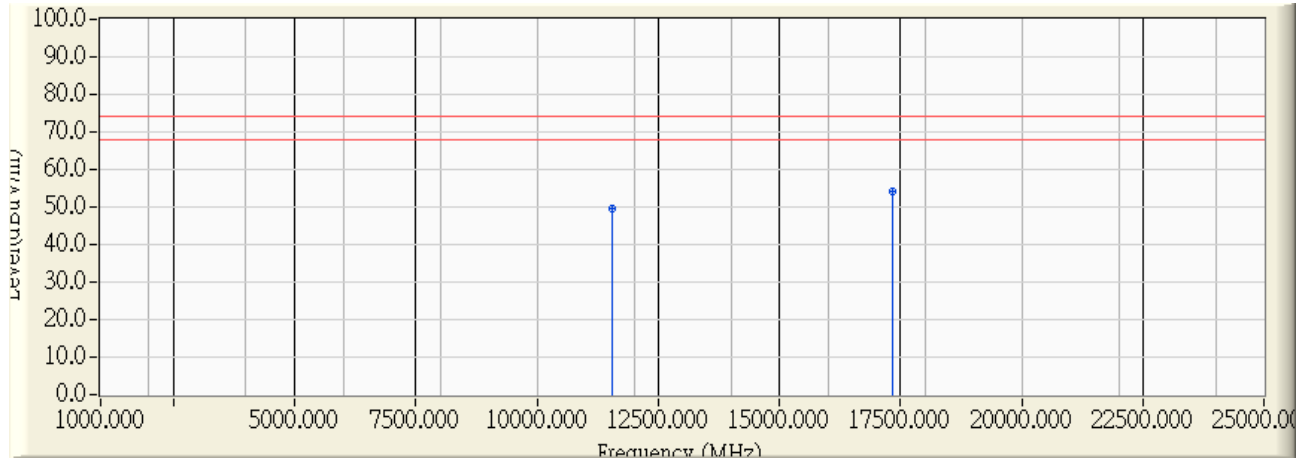


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	*	17340.050	16.167	25.783	41.950	-12.050	54.000	74.000	AVERAGE

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 : 2013/05/07 - 10:08
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11n20M_CH157

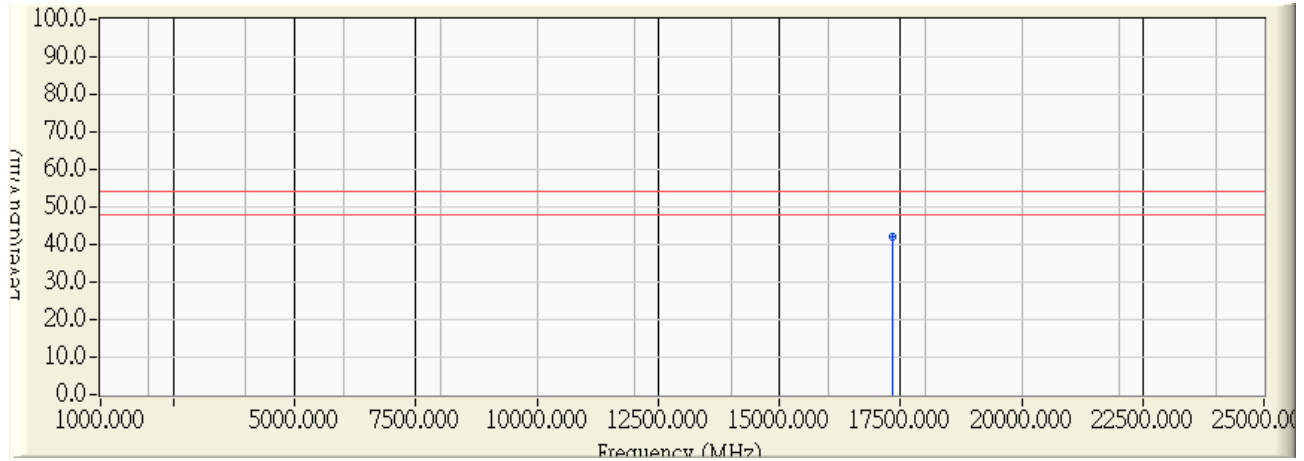


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	11563.900	12.055	37.672	49.728	-24.272	54.000	74.000	PEAK
2	* 17336.500	16.153	38.046	54.199	-19.801	54.000	74.000	PEAK

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 : 2013/05/07 - 10:10
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11n20M_CH157

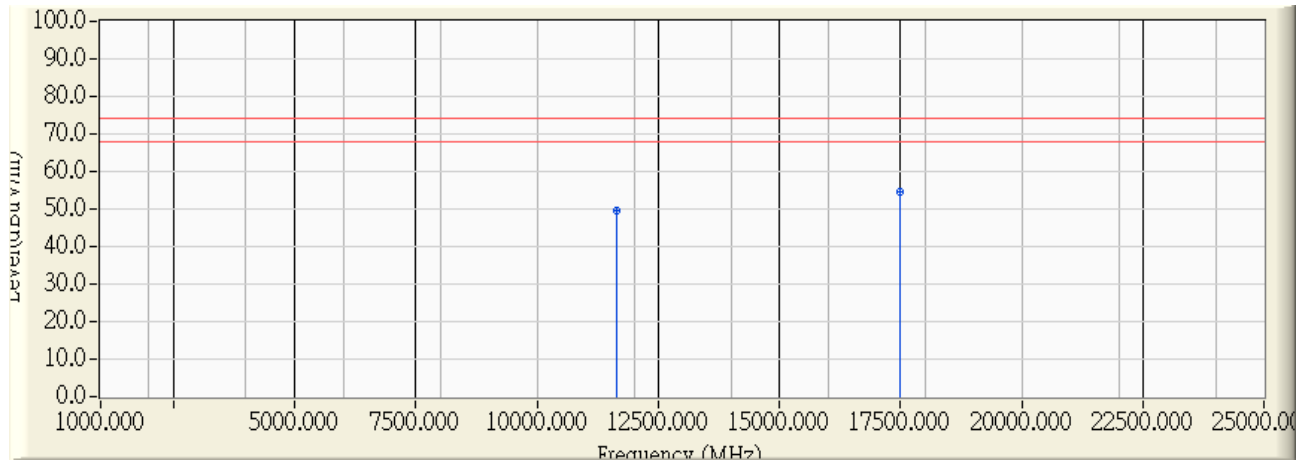


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	*	17332.200	16.135	25.787	41.923	-12.077	54.000	74.000	AVERAGE

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 : 2013/05/07 - 10:34
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11n20M_CH165

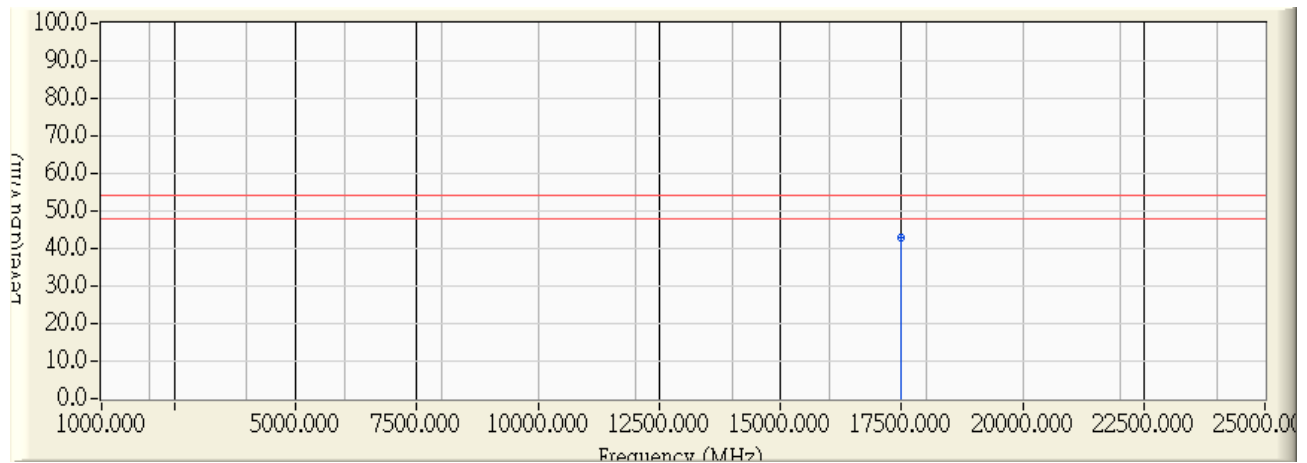


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	11649.800	11.956	37.785	49.741	-24.259	54.000	74.000	PEAK
2	* 17480.350	16.738	38.019	54.757	-19.243	54.000	74.000	PEAK

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 : 2013/05/07 - 10:35
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V \pm 5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11n20M_CH165

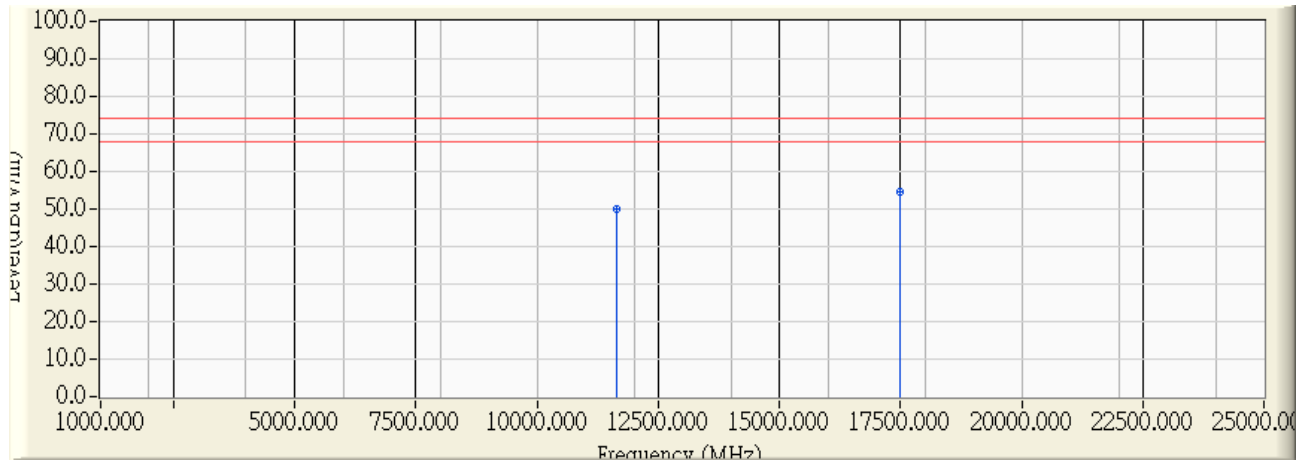


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	*	17499.200	16.840	25.953	42.793	-11.207	54.000	74.000	AVERAGE

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 : 2013/05/07 - 10:38
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11n20M_CH165

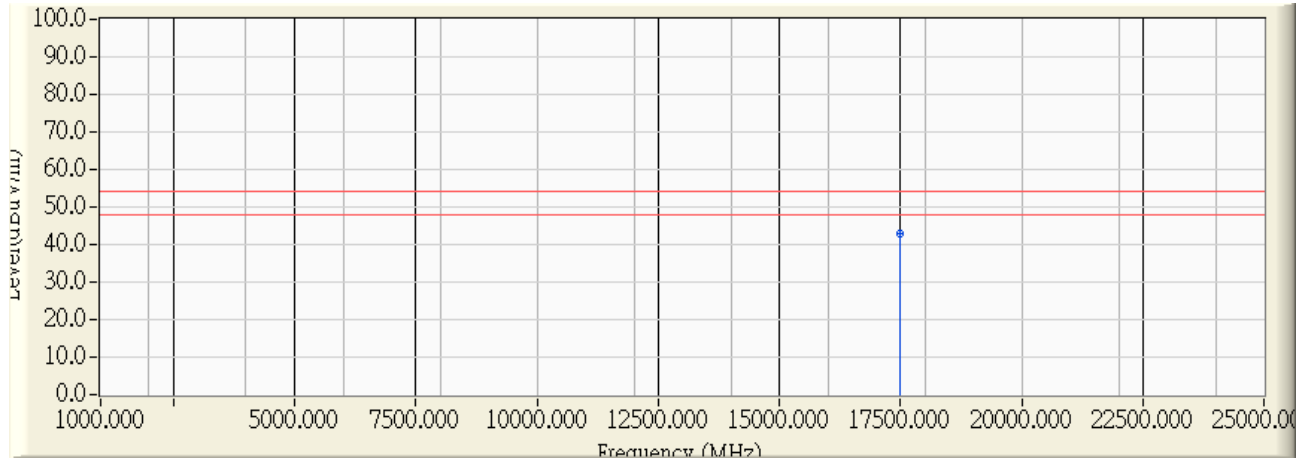


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	11649.750	11.956	37.999	49.955	-24.045	54.000	74.000	PEAK
2	* 17499.550	16.843	37.873	54.716	-19.284	54.000	74.000	PEAK

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 : 2013/05/07 - 10:38
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V \pm 5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11n20M_CH165

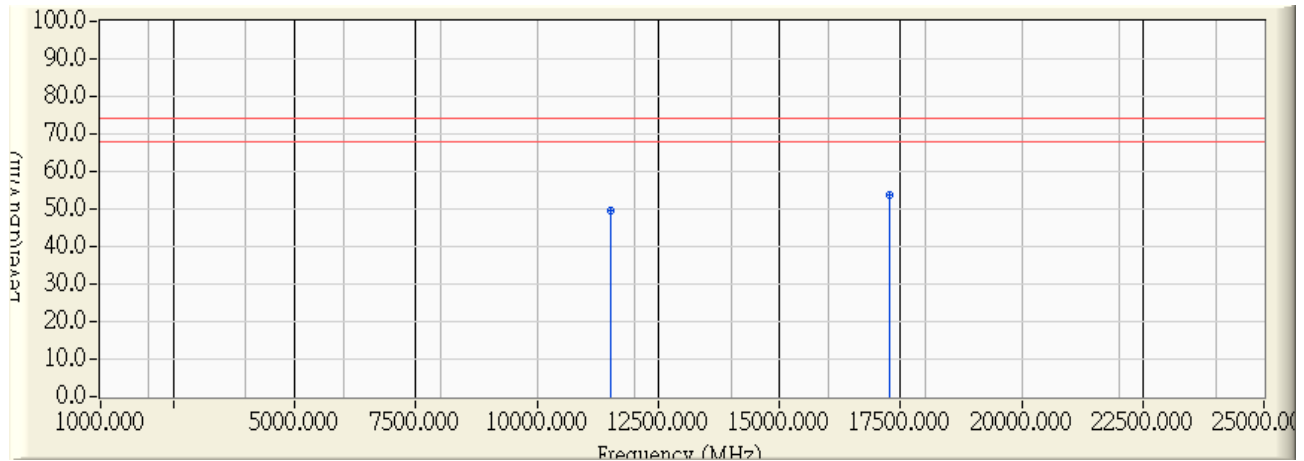


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	*	17492.850	16.797	25.950	42.747	-11.253	54.000	74.000	AVERAGE

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 : 2013/05/07 - 10:47
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V \pm 5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11n40M_CH151

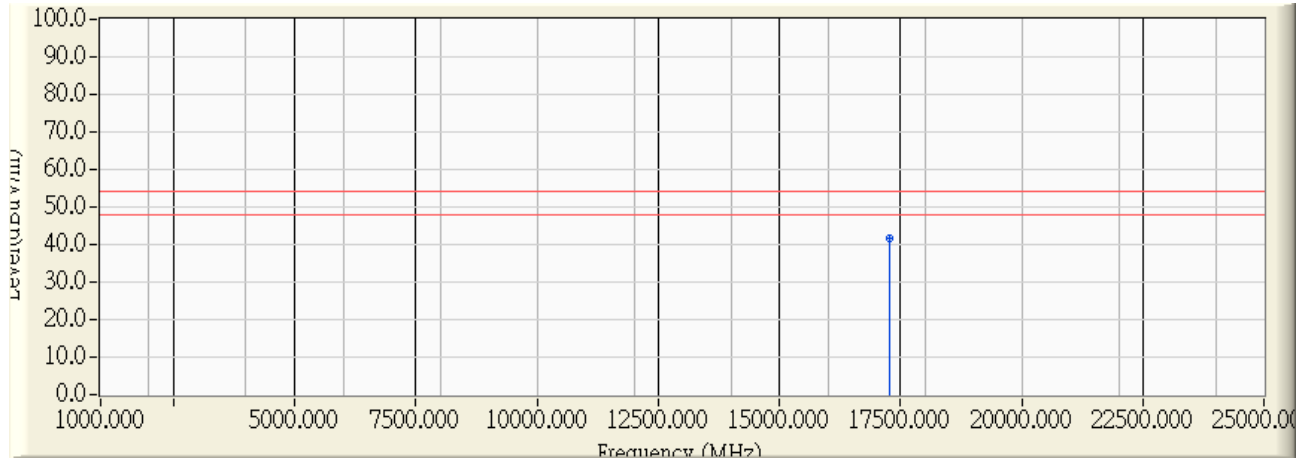


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	11507.900	12.120	37.459	49.580	-24.420	54.000	74.000	PEAK
2	* 17263.750	15.857	37.736	53.593	-20.407	54.000	74.000	PEAK

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 : 2013/05/07 - 10:48
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V \pm 5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11n40M_CH151

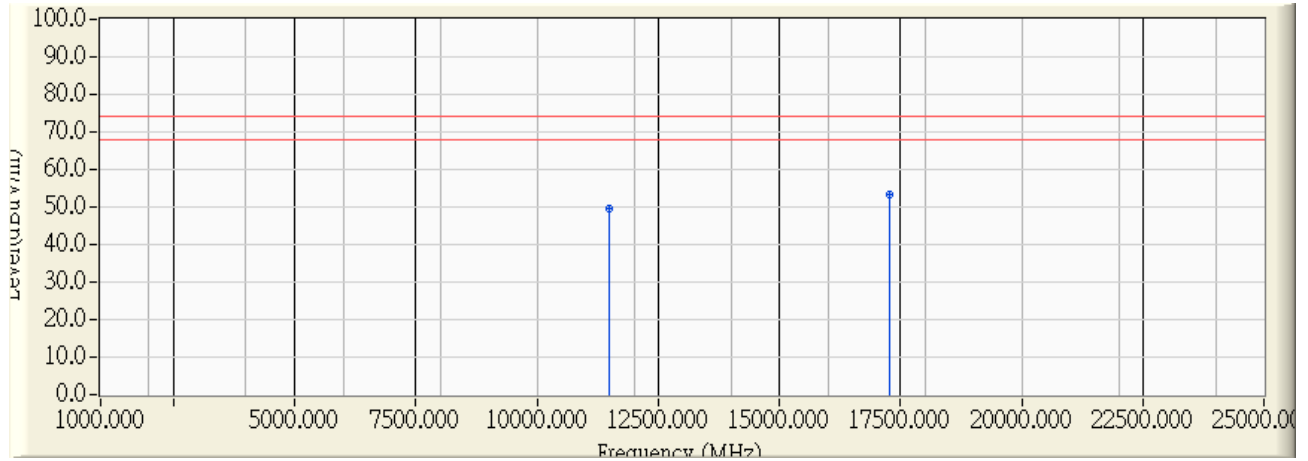


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	*	17265.900	15.866	25.821	41.687	-12.313	54.000	74.000	AVERAGE

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 : 2013/05/07 - 10:43
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11n40M_CH151

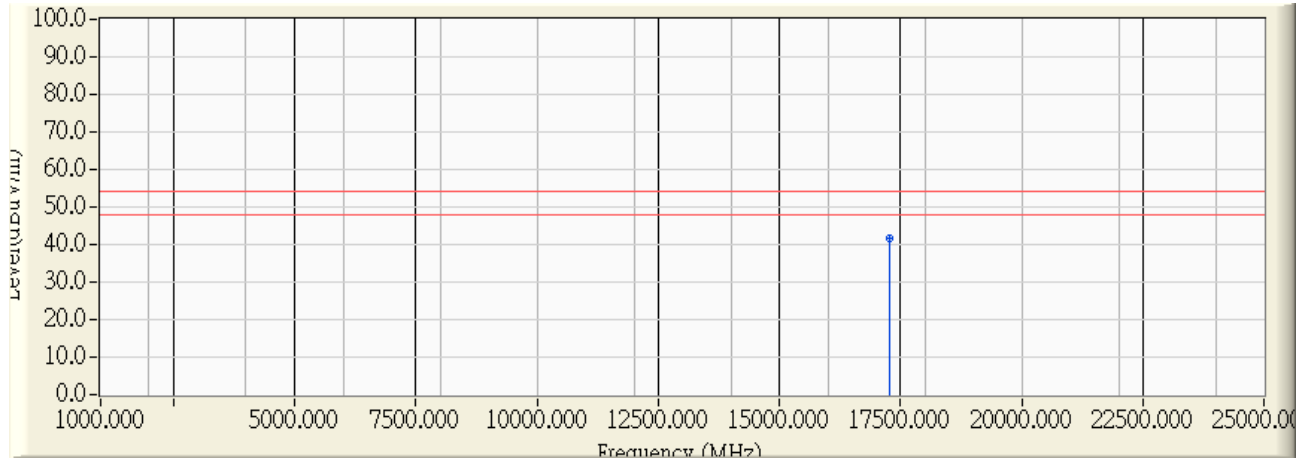


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	11496.250	12.130	37.592	49.722	-24.278	54.000	74.000	PEAK
2	* 17274.750	15.902	37.452	53.354	-20.646	54.000	74.000	PEAK

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 : 2013/05/07 - 10:44
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11n40M_CH151

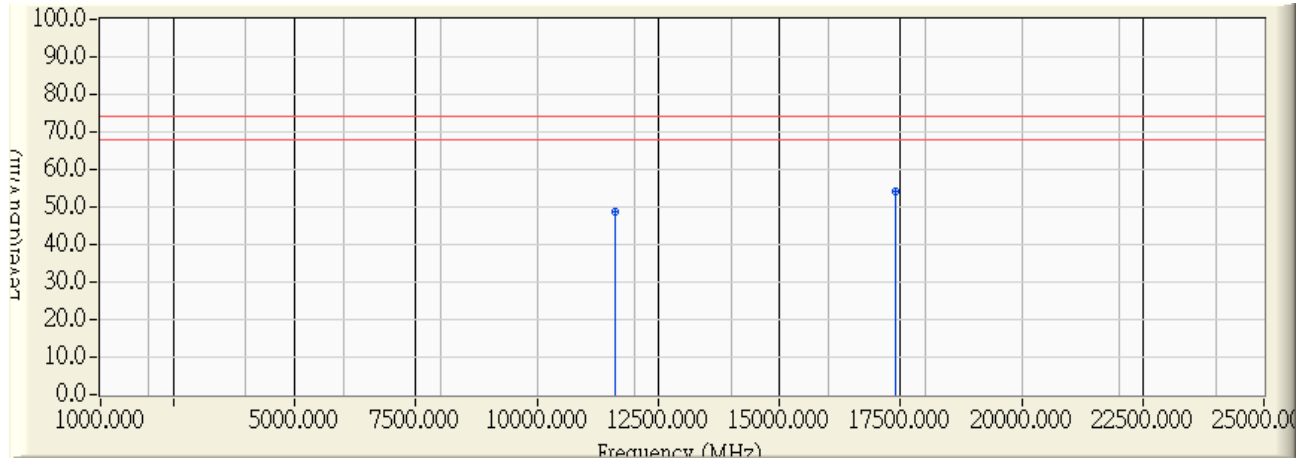


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	*	17266.950	15.870	25.820	41.690	-12.310	54.000	74.000	AVERAGE

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 : 2013/05/07 - 10:54
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11n40M_CH159

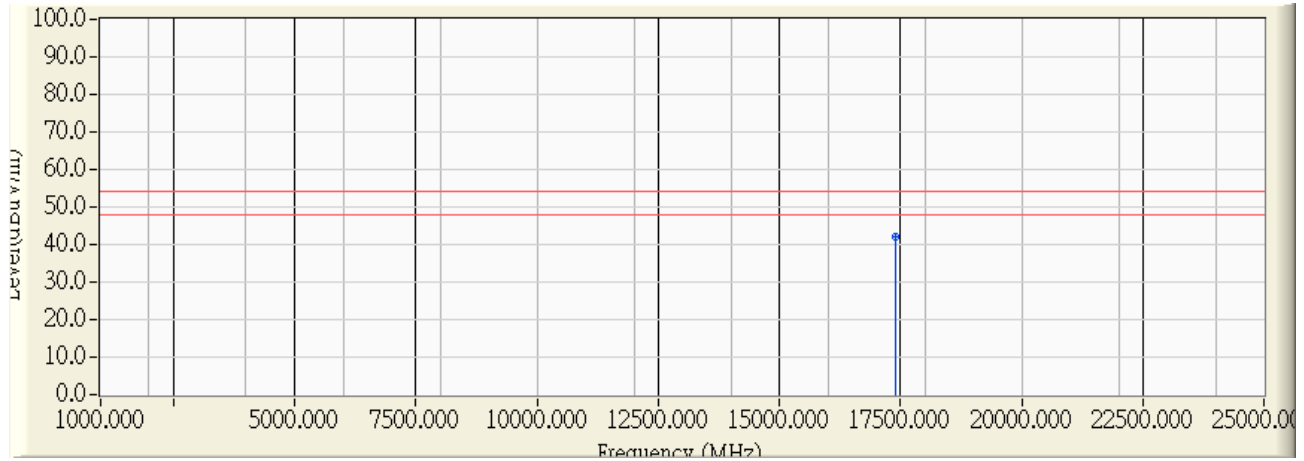


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	11615.560	11.995	36.935	48.931	-25.069	54.000	74.000	PEAK
2	* 17402.040	16.420	37.626	54.046	-19.954	54.000	74.000	PEAK

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 : 2013/05/07 - 10:55
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11n40M_CH159

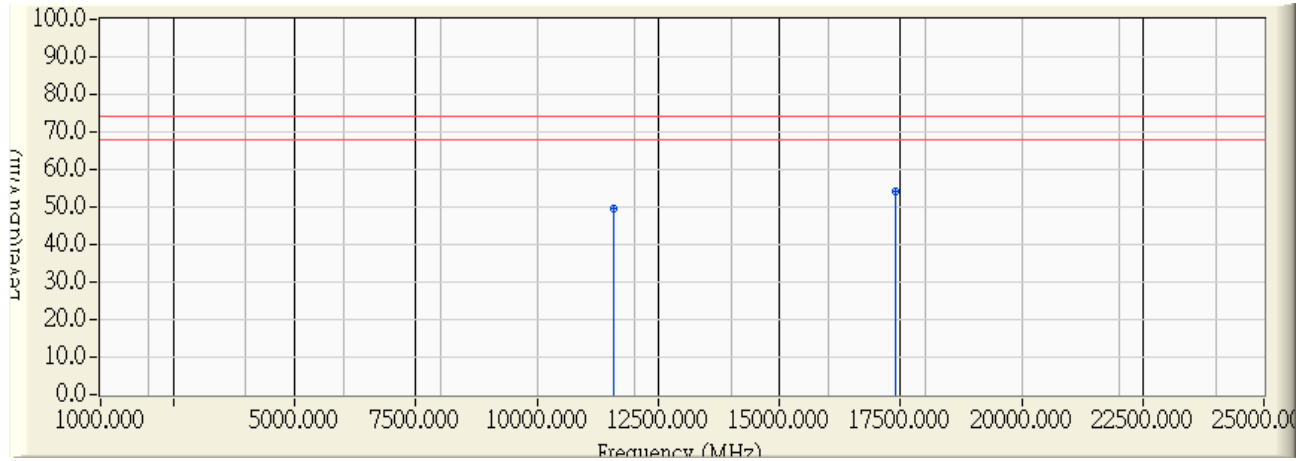


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	*	17412.720	16.463	25.803	42.266	-11.734	54.000	74.000	AVERAGE

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 : 2013/05/07 - 10:57
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V ±5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11n40M_CH159

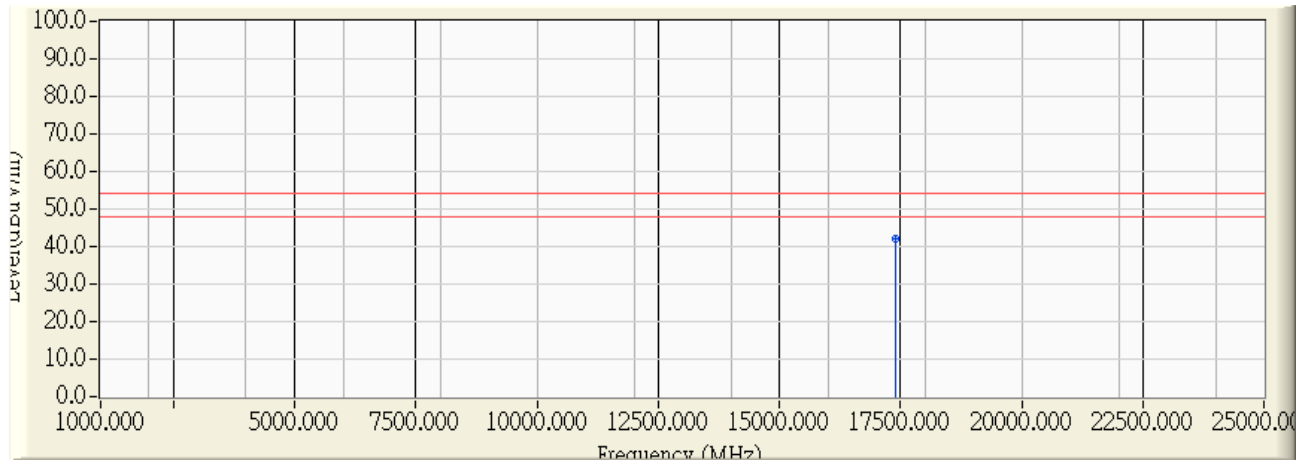


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	11586.700	12.029	37.592	49.621	-24.379	54.000	74.000	PEAK
2	* 17391.480	16.376	37.673	54.050	-19.950	54.000	74.000	PEAK

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 : 2013/05/07 - 10:58
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V \pm 5% from host equipment
EUT : 11N Wireless LAN CARD	Note : 802.11n40M_CH159



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	*	17414.760	16.471	25.786	42.257	-11.743	54.000	74.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

5. RF antenna conducted test

5.1. Test Equipment

The following test equipments are used during the test:

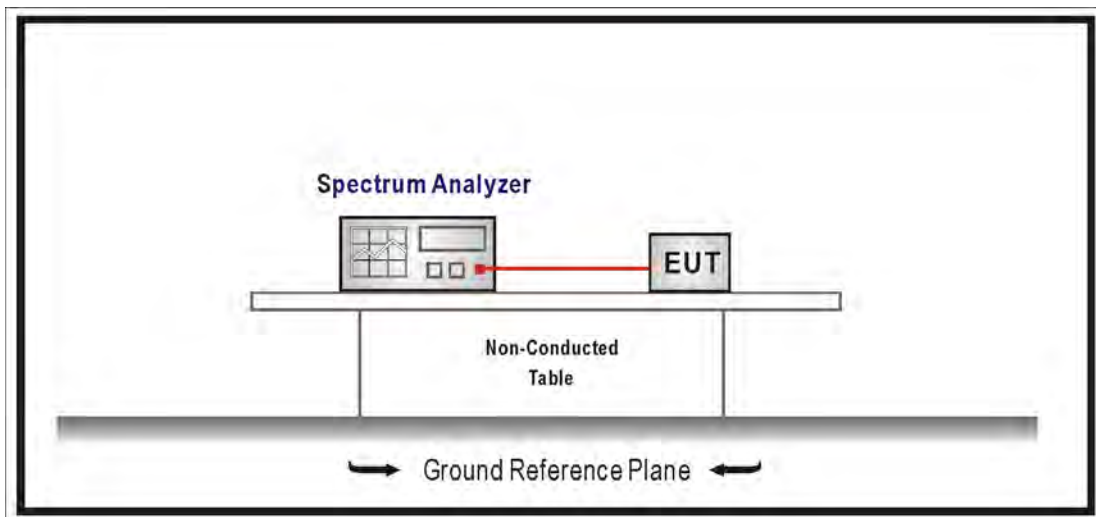
RF antenna conducted test / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
EXA Signal Analyzer	Agilent	N9010A-EXA	US47140172	2013/07/31

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 C63.4: 2009 and tested according to DTS test procedure of Jan. 2012 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: 2012

5.6. Uncertainty

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

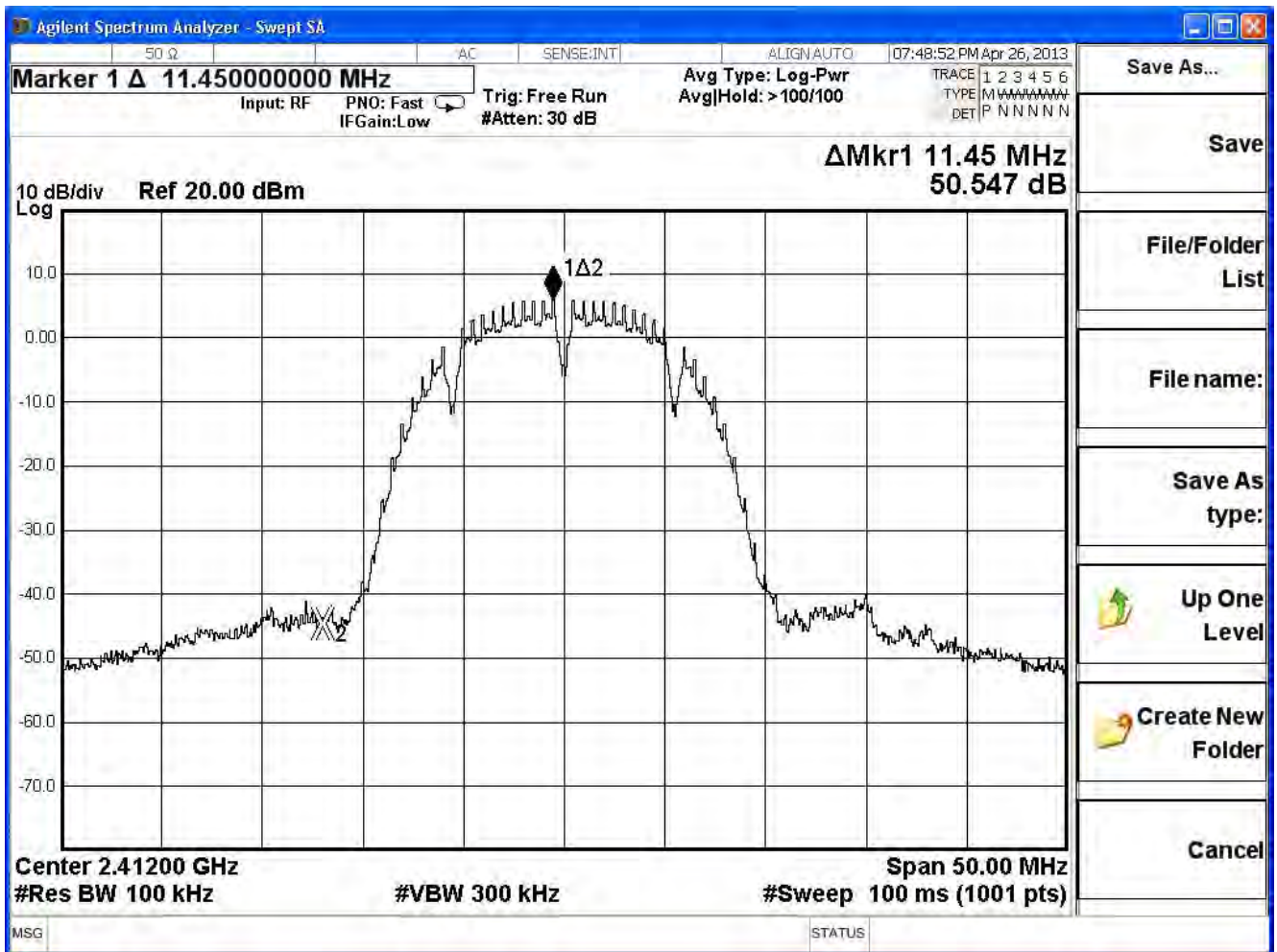
5.7. Test Result

Product	11N Wireless LAN CARD		
Test Item	RF antenna conducted test		
Test Mode	Transmit		
Date of Test	2013/04/26	Test Site	SR7

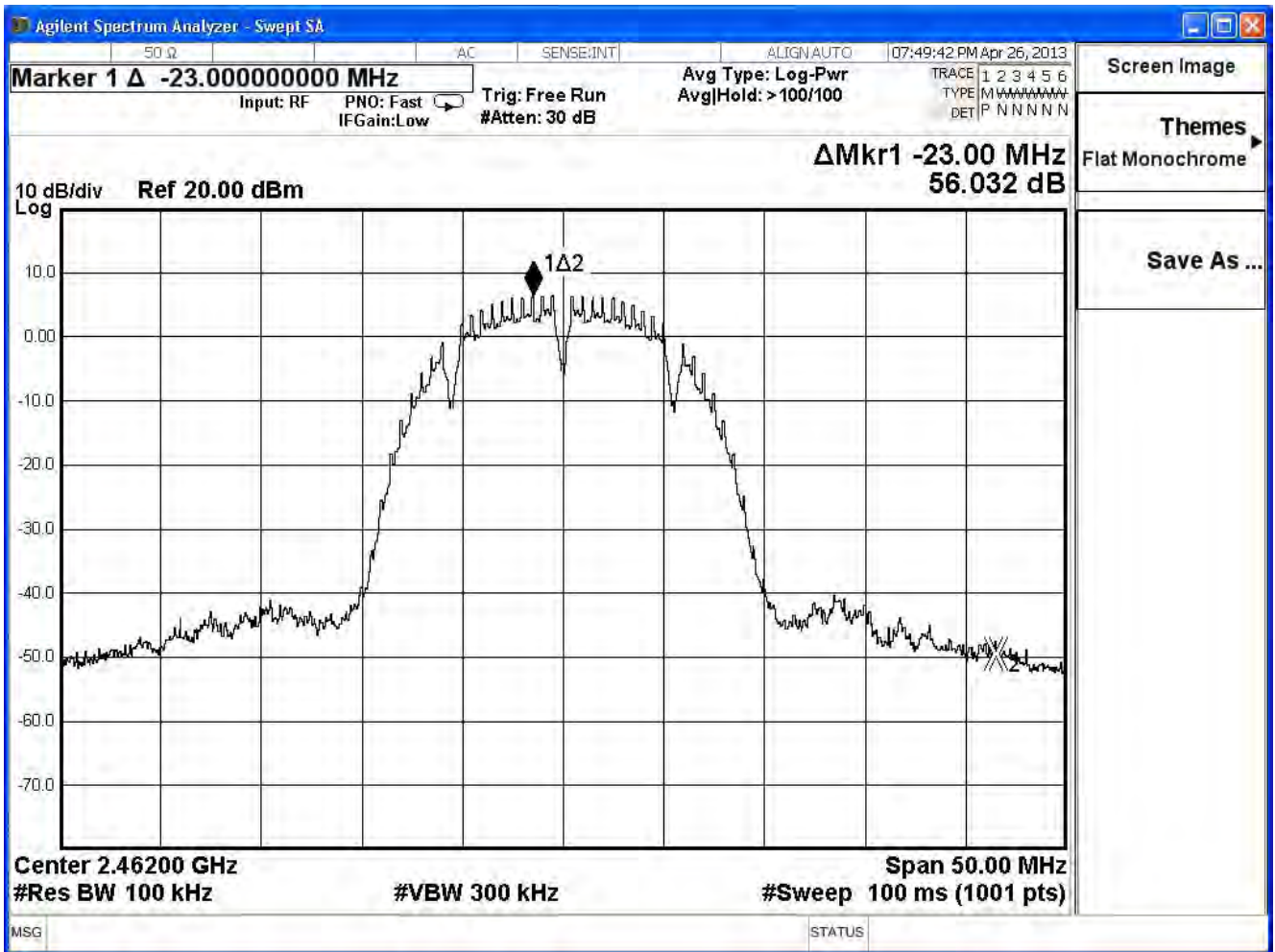
IEEE 802.11b, Duty Cycle: 1

Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	50.547	≥ 20	Pass
11	2462	56.032	≥ 20	Pass

Channel 01 (2412MHz)



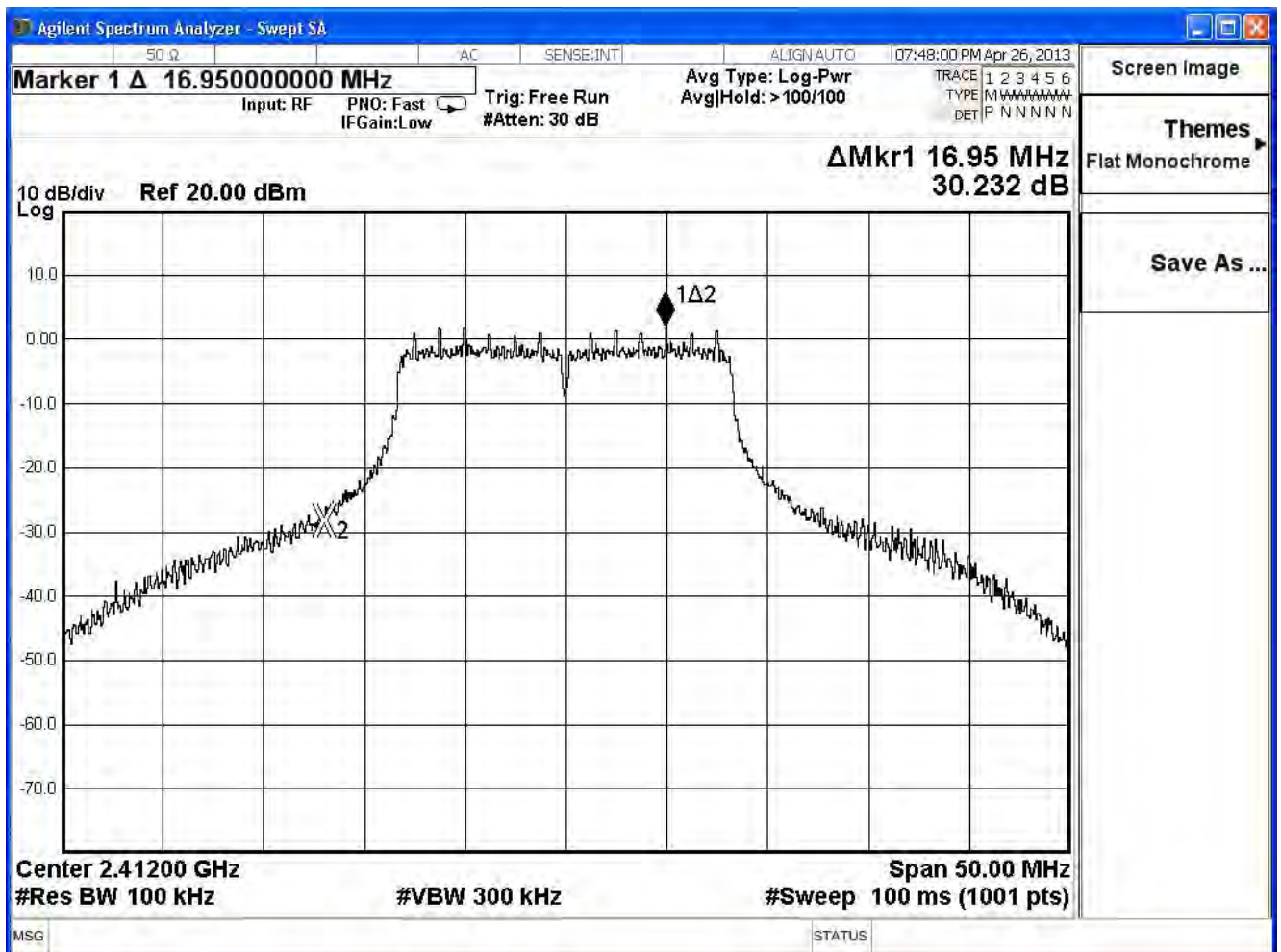
Channel 11 (2462MHz)



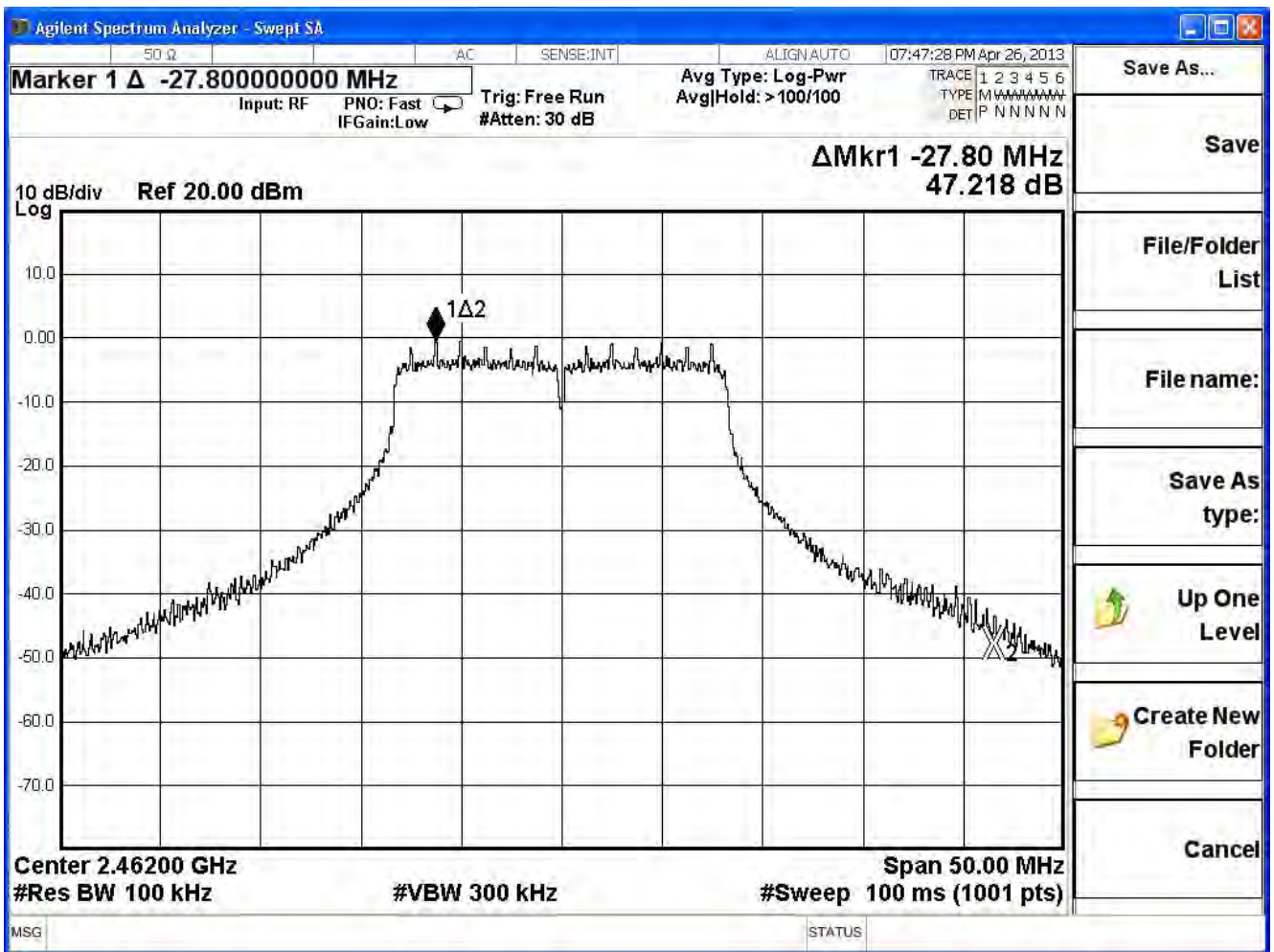
Product	11N Wireless LAN CARD		
Test Item	RF antenna conducted test		
Test Mode	Transmit		
Date of Test	2013/04/26	Test Site	SR7

IEEE 802.11g, Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	30.232	≥ 20	Pass
11	2462	47.218	≥ 20	Pass

Channel 01 (2412MHz)



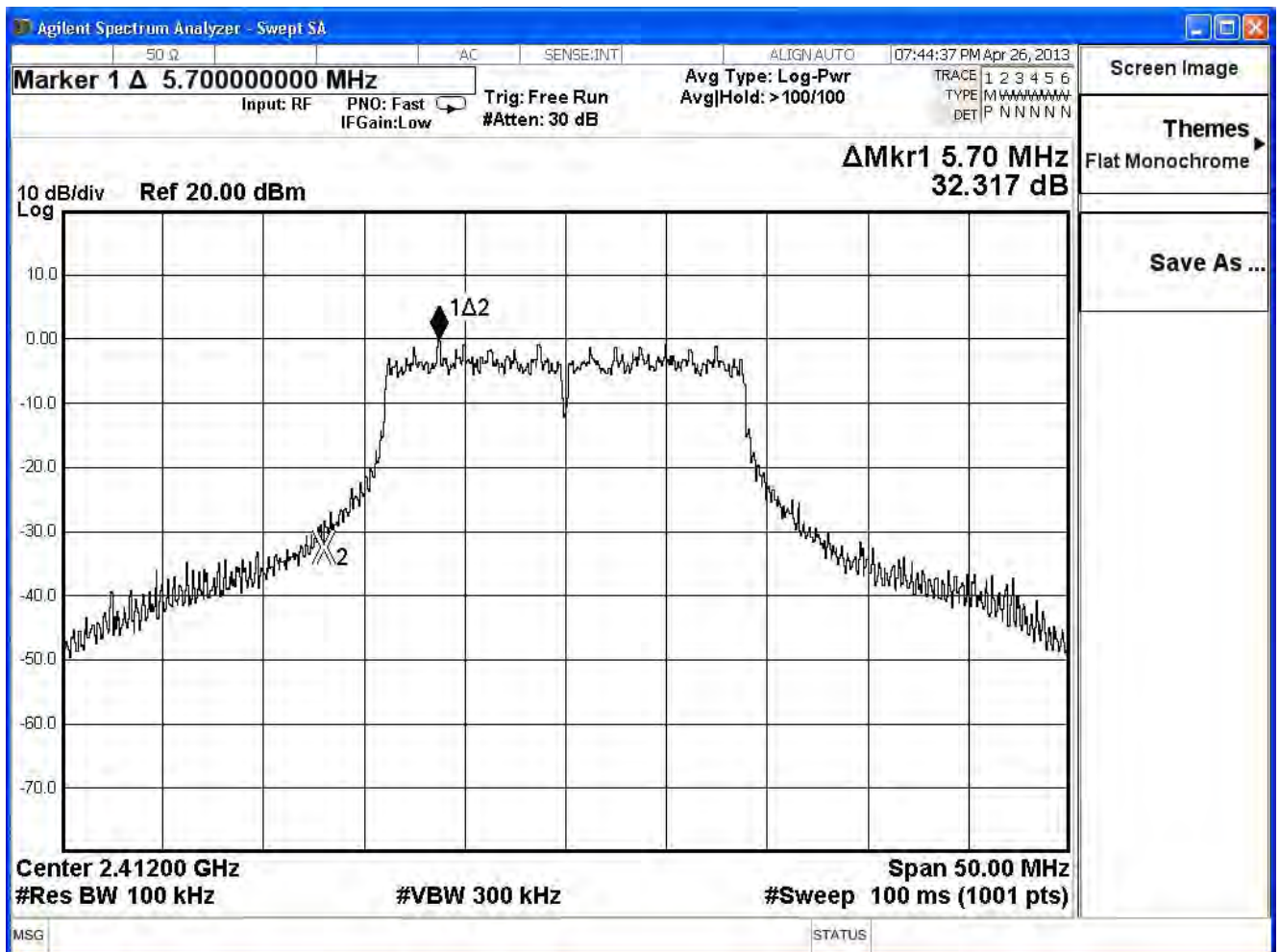
Channel 11 (2462MHz)



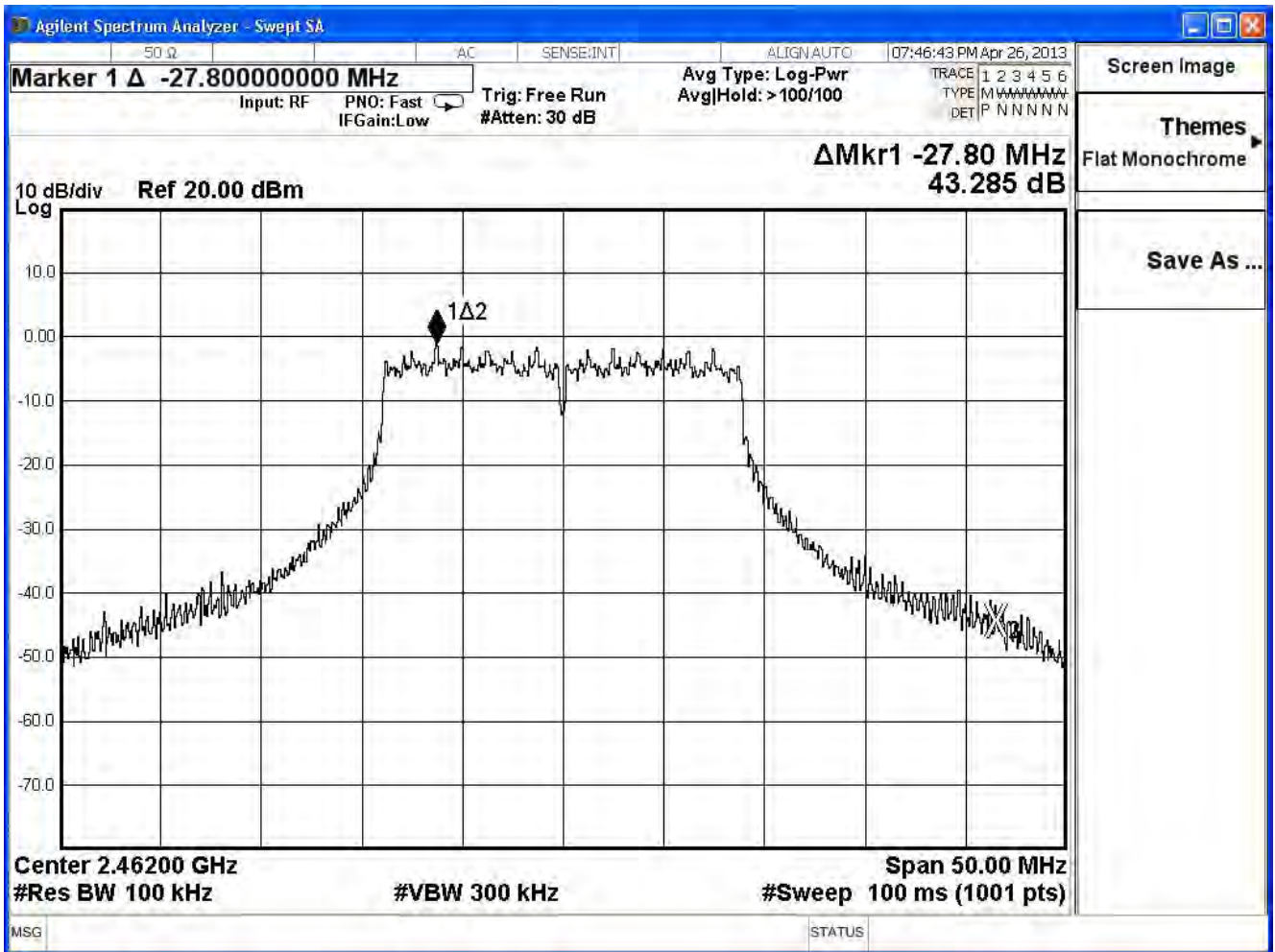
Product	11N Wireless LAN CARD		
Test Item	RF antenna conducted test		
Test Mode	Transmit		
Date of Test	2013/04/26	Test Site	SR7

IEEE 802.11n (20MHz), (ANT 0) , Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	32.317	≥ 20	Pass
11	2462	43.285	≥ 20	Pass

Channel 1 (2412MHz)



Channel 11 (2462MHz)

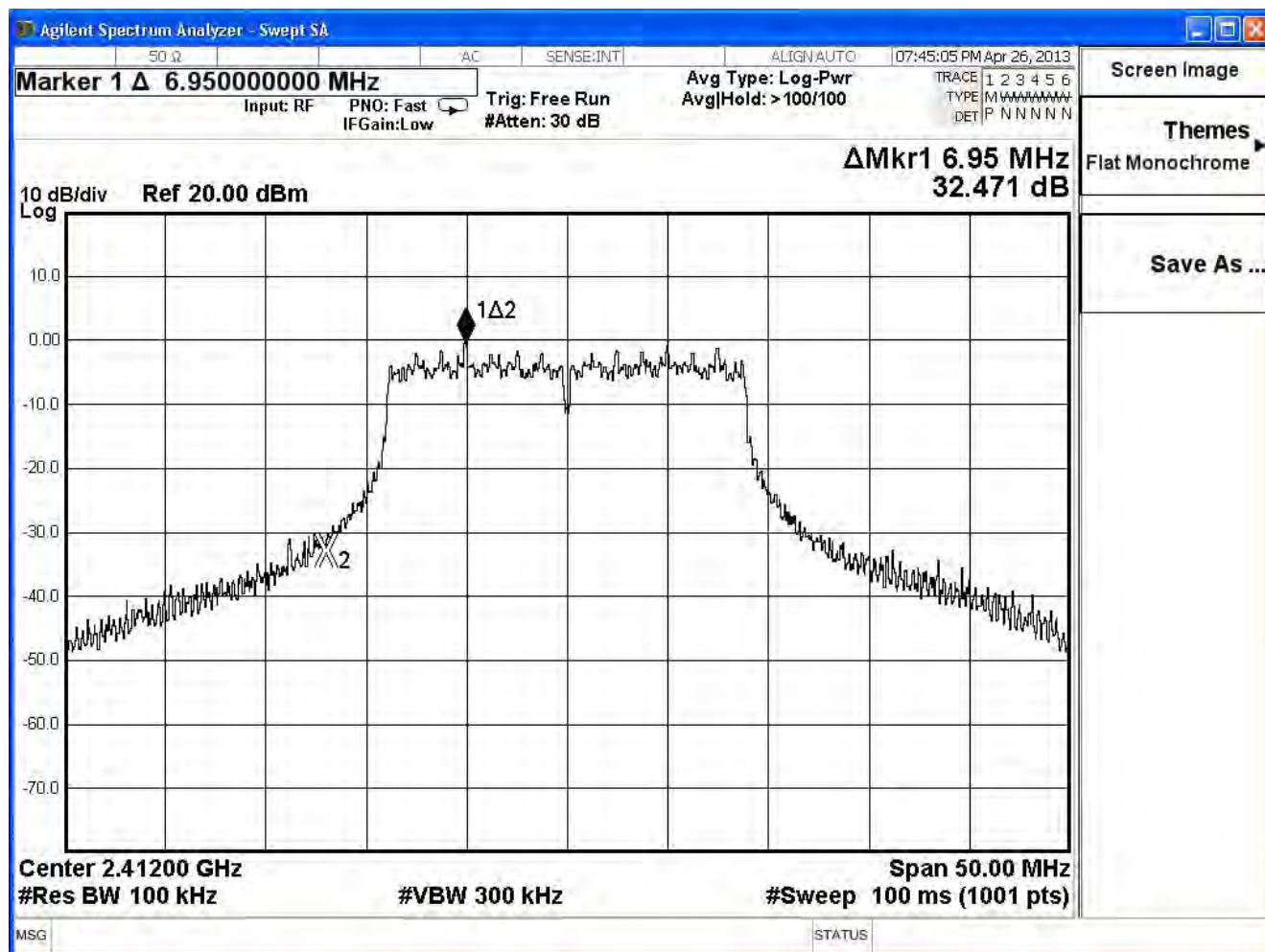


Product	11N Wireless LAN CARD		
Test Item	RF antenna conducted test		
Test Mode	Transmit		
Date of Test	2013/04/26	Test Site	SR7

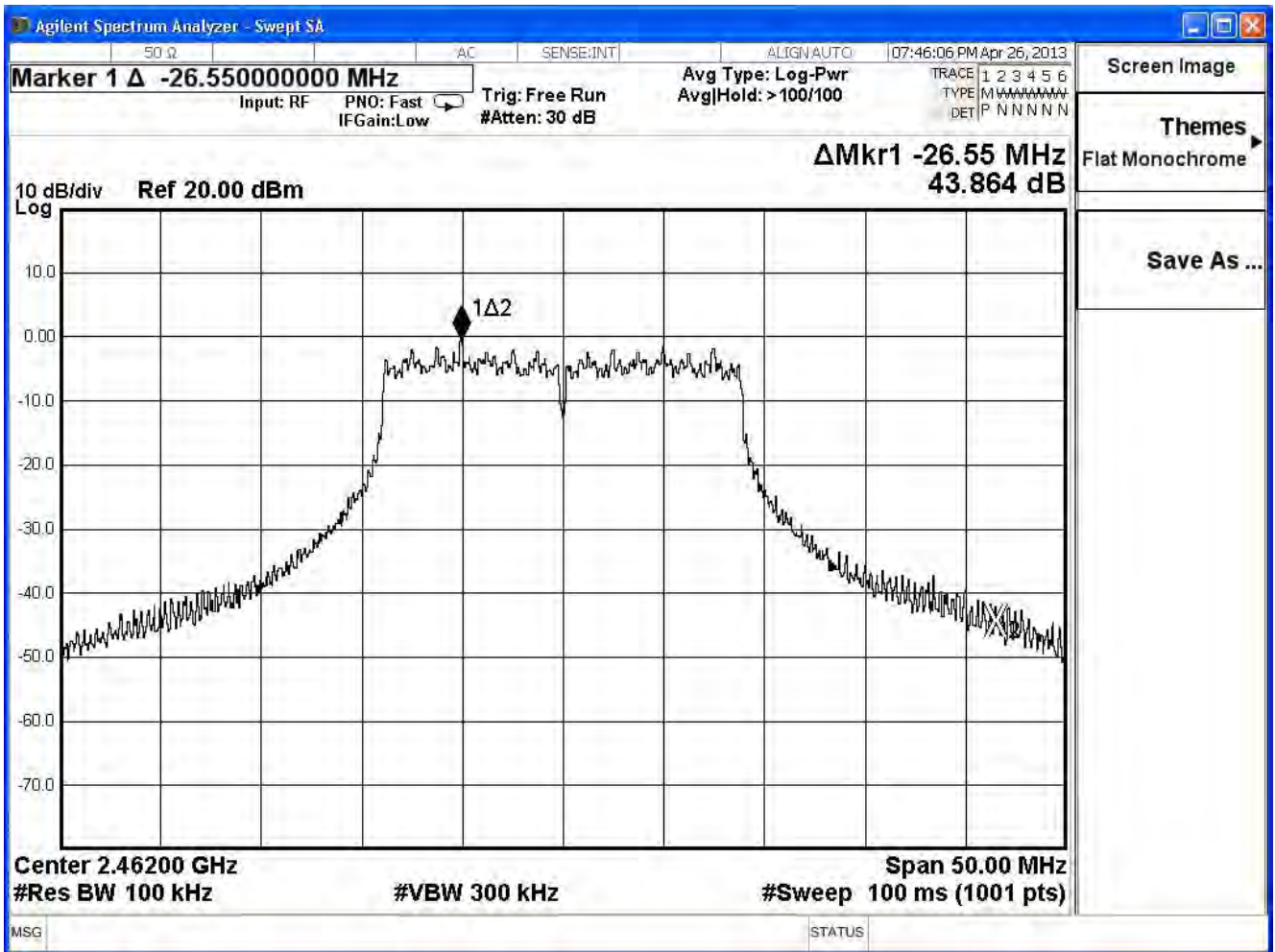
IEEE 802.11n (20MHz), (ANT 1) , Duty Cycle: 1

Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	32.471	≥ 20	Pass
11	2462	43.864	≥ 20	Pass

Channel 1 (2412MHz)



Channel 11 (2462MHz)

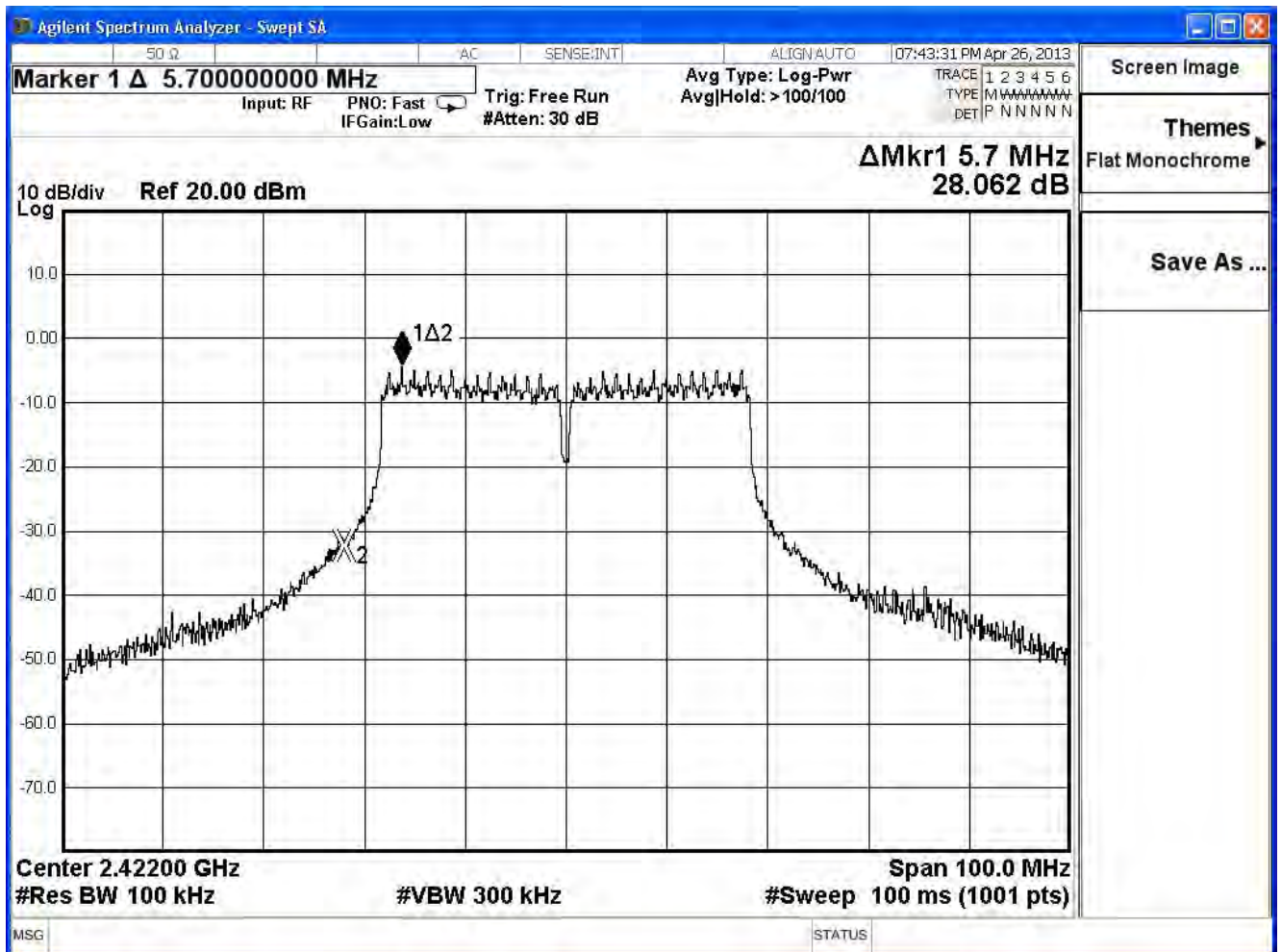


Product	11N Wireless LAN CARD		
Test Item	RF antenna conducted test		
Test Mode	Transmit		
Date of Test	2013/04/26	Test Site	SR7

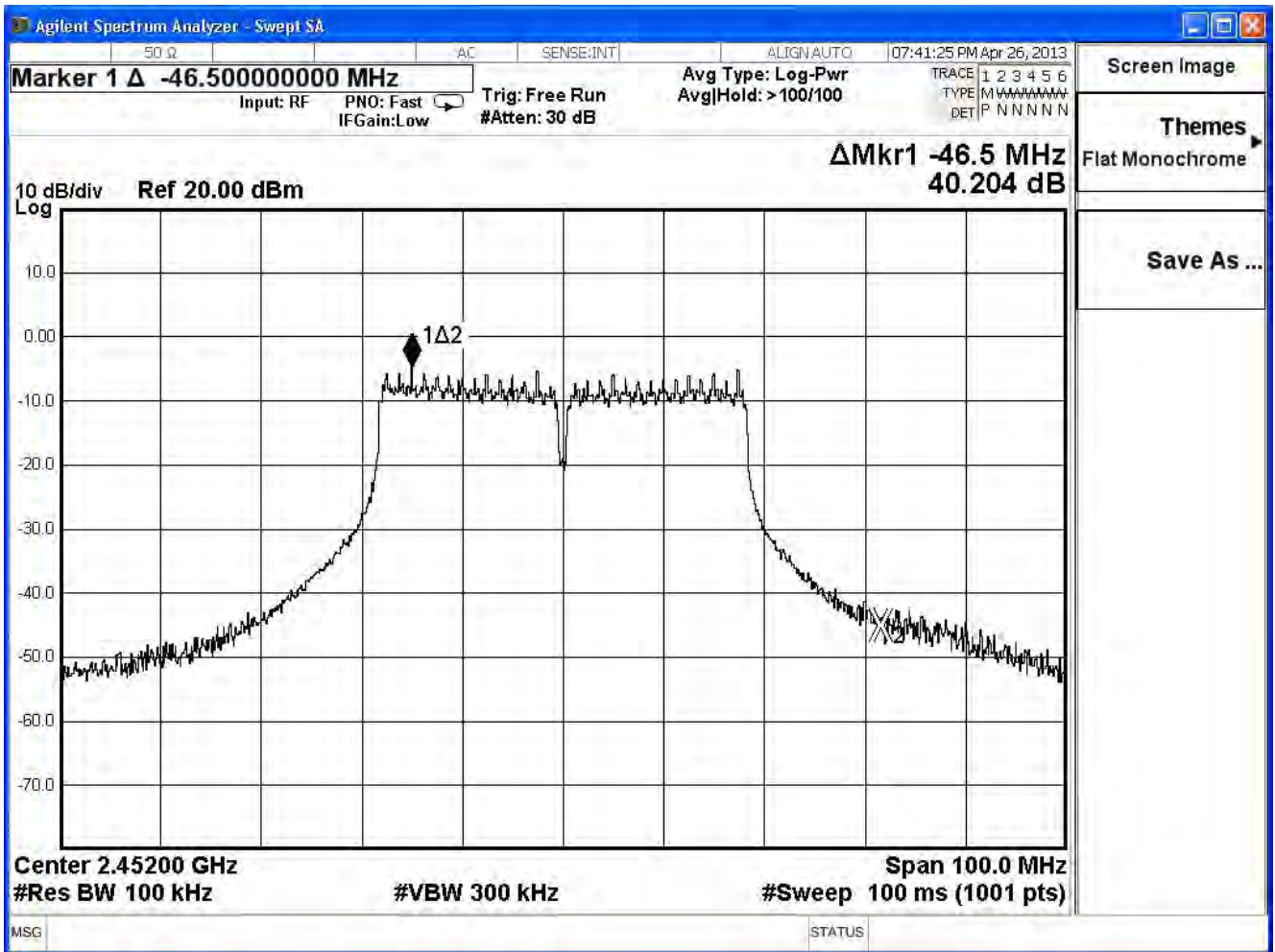
IEEE 802.11n (40MHz), (ANT 0) , Duty Cycle: 1

Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	28.062	≥ 20	Pass
9	2452	37.354	≥ 20	Pass

Channel 3 (2422MHz)



Channel 9 (2452MHz)



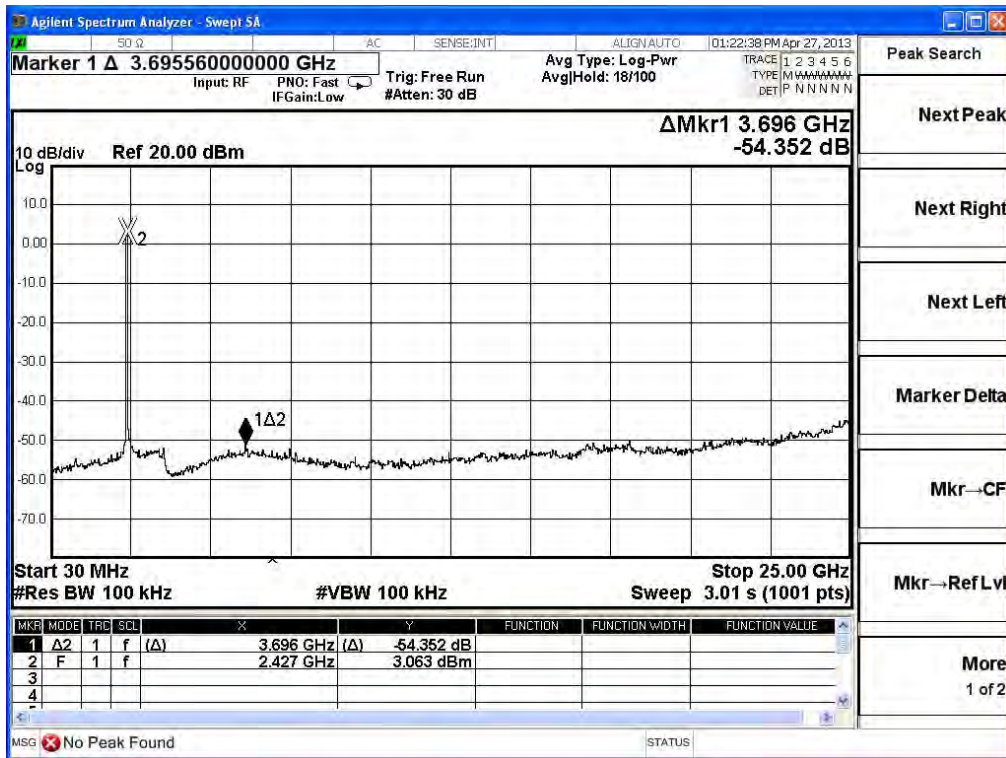
2412MHz (30MHz-25GHz)-802.11b



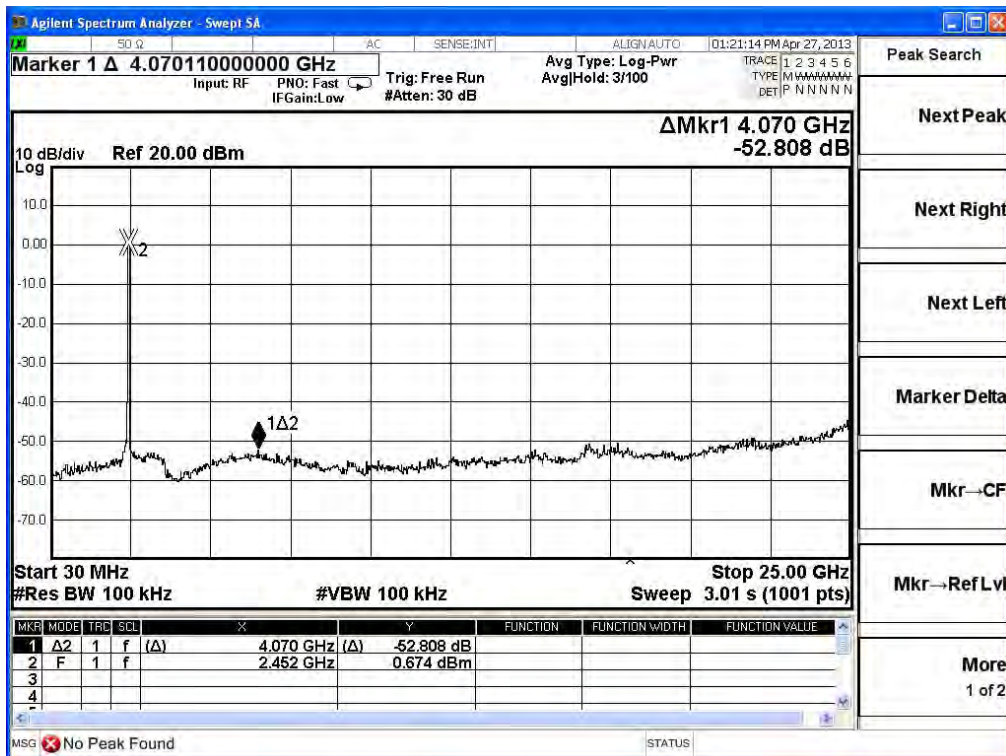
2462MHz (30MHz-25GHz) -802.11b



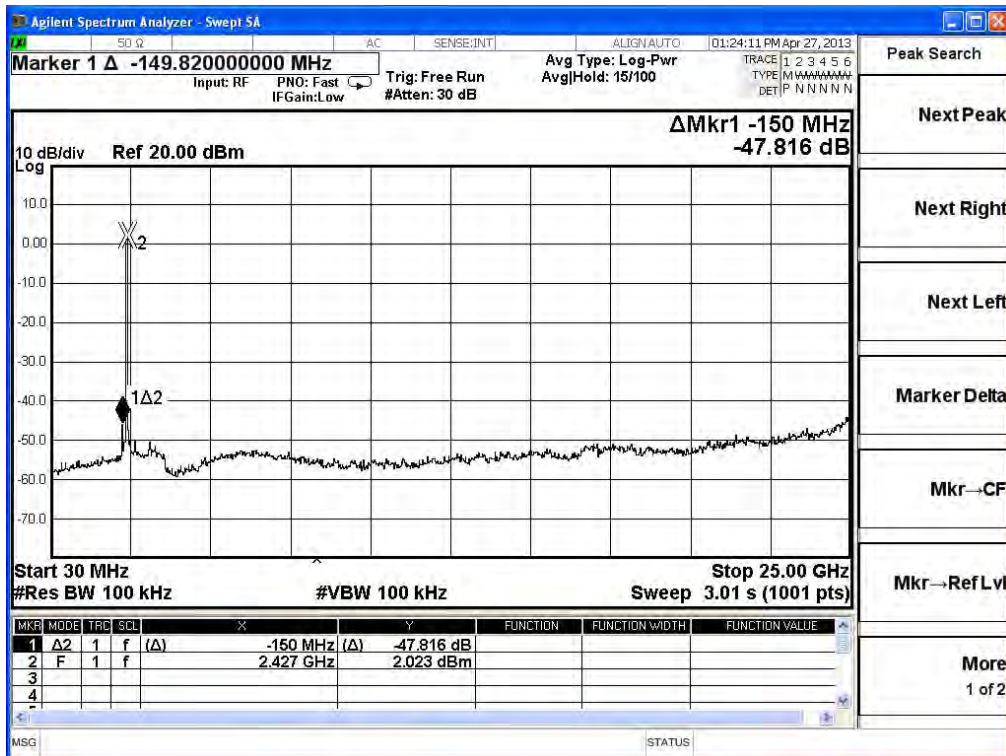
2412MHz (30MHz-25GHz)-802.11g



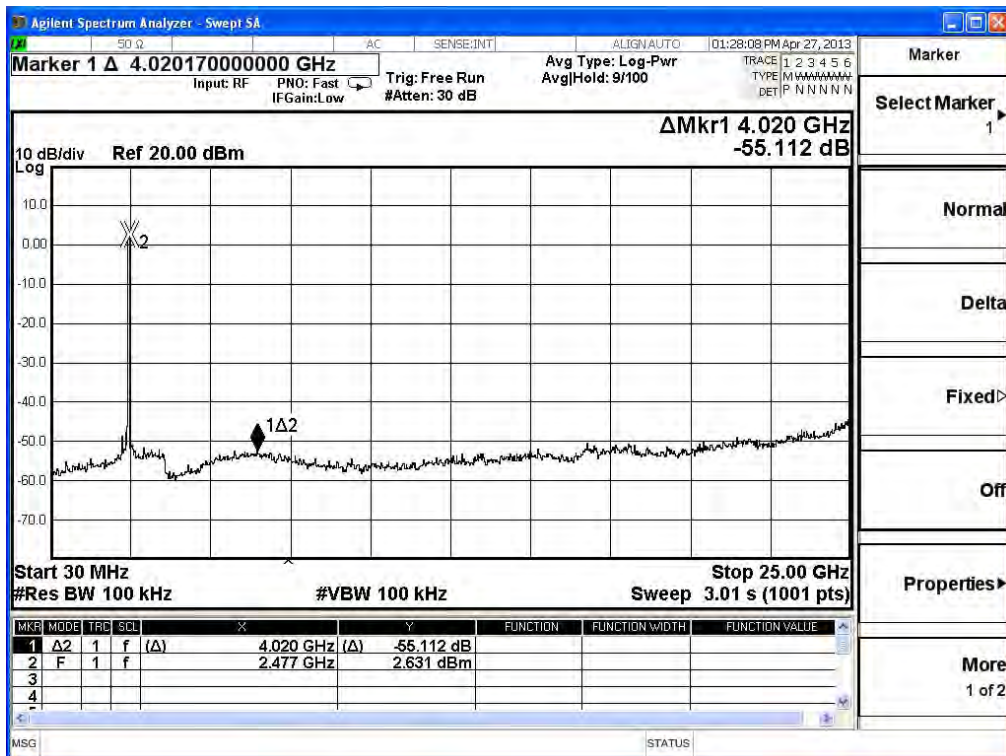
2462MHz (30MHz-25GHz) -802.11g



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



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



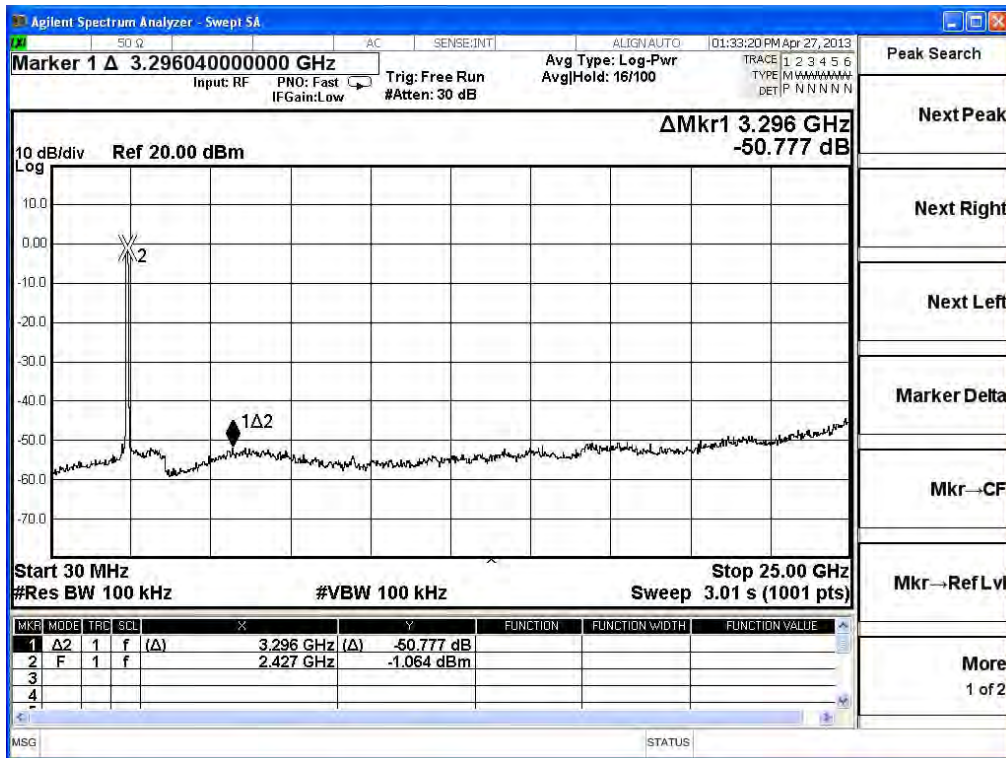
2412MHz (30MHz-25GHz)-802.11n(20MHz)-ANT 1



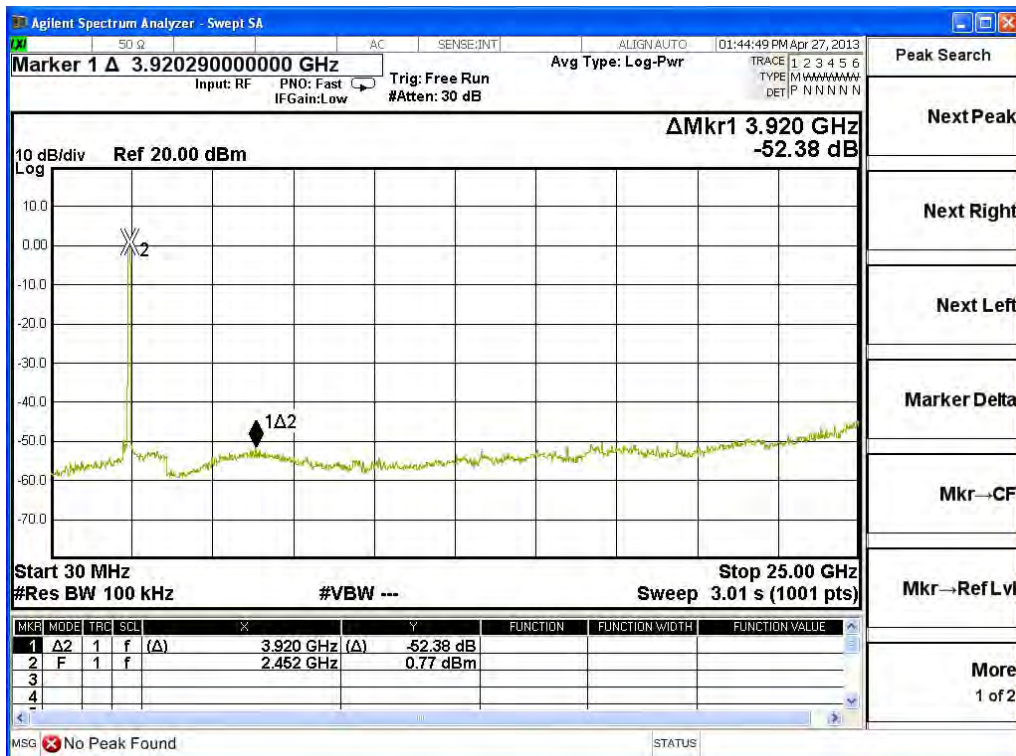
2462MHz (30MHz-25GHz) -802.11n(20MHz)-ANT 1



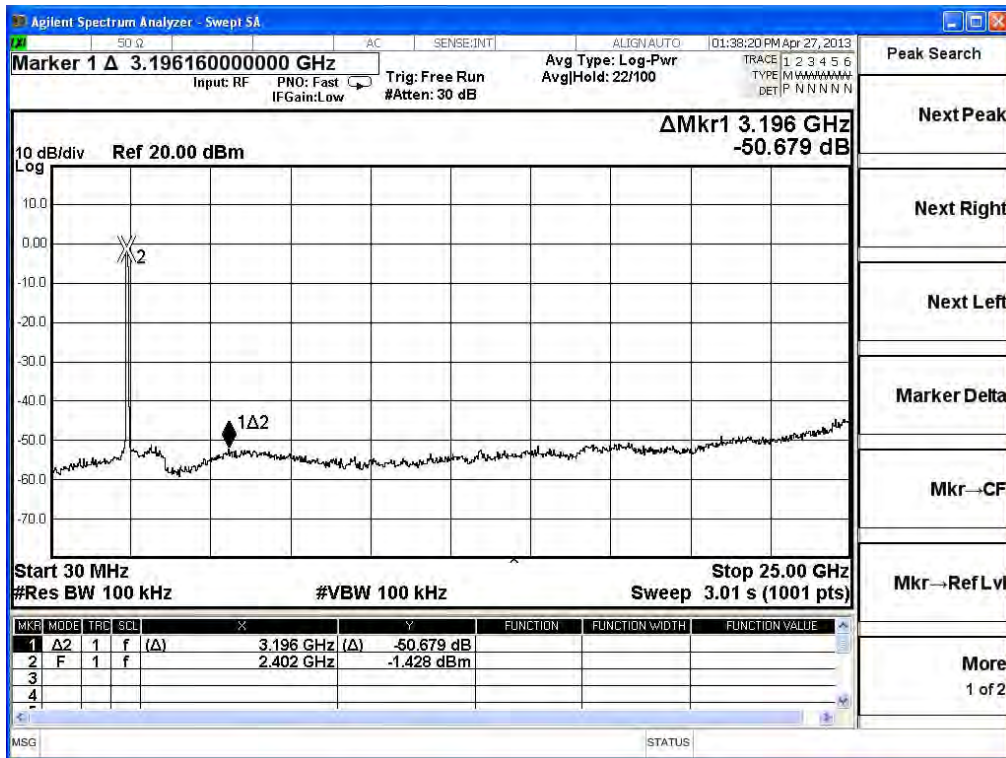
2422MHz (30MHz-25GHz)-802.11n(40MHz)-ANT 0



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



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



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

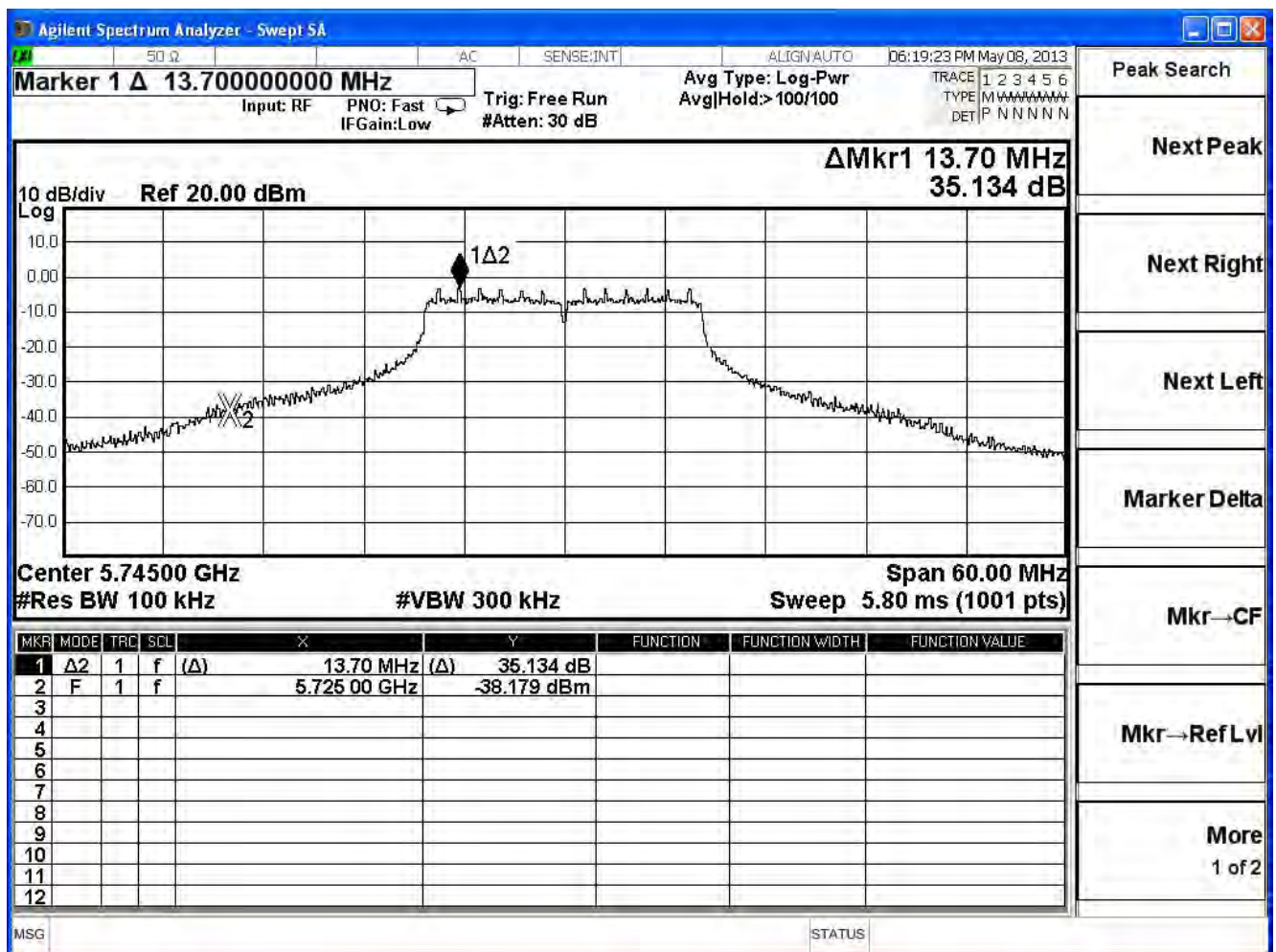


Product	11N Wireless LAN CARD		
Test Item	RF antenna conducted test		
Test Mode	Transmit		
Date of Test	2013/05/08	Test Site	SR7

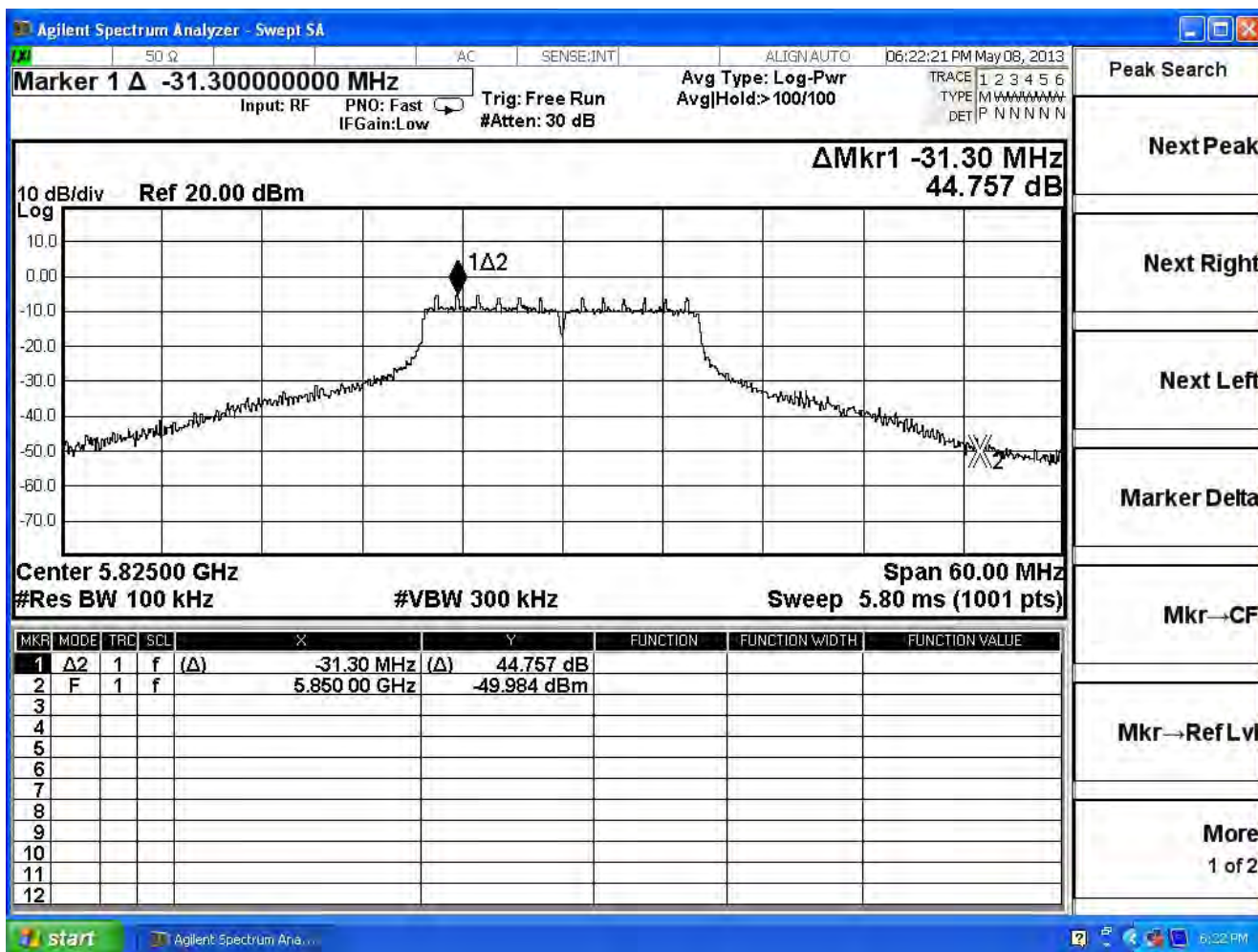
IEEE 802.11a, Duty Cycle: 1

Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
149	5745	35.134	≥ 20	Pass
165	5825	44.757	≥ 20	Pass

Channel 149 (5745MHz)



Channel 165 (5825MHz)

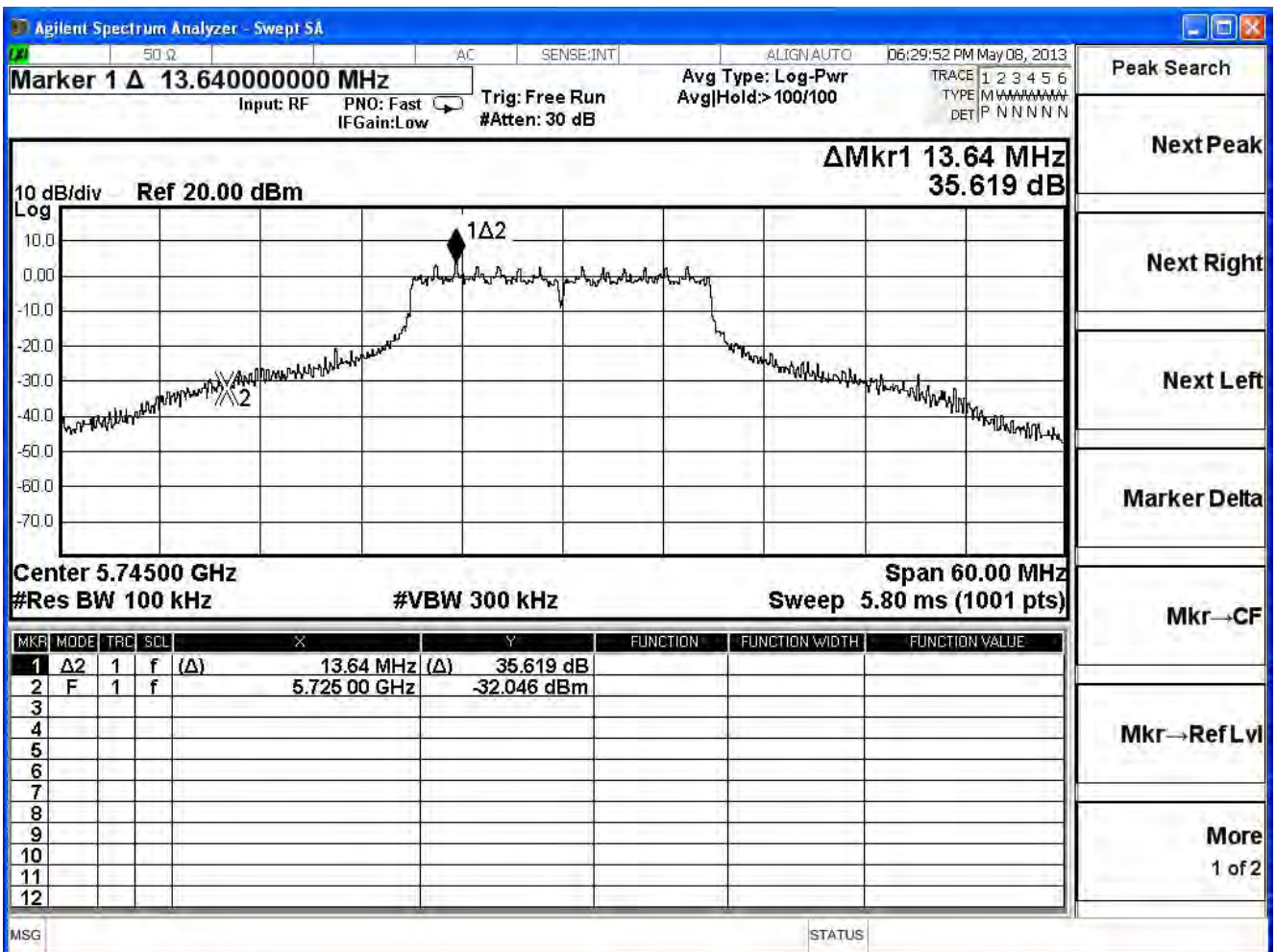


Product	11N Wireless LAN CARD		
Test Item	RF antenna conducted test		
Test Mode	Transmit		
Date of Test	2013/05/08	Test Site	SR7

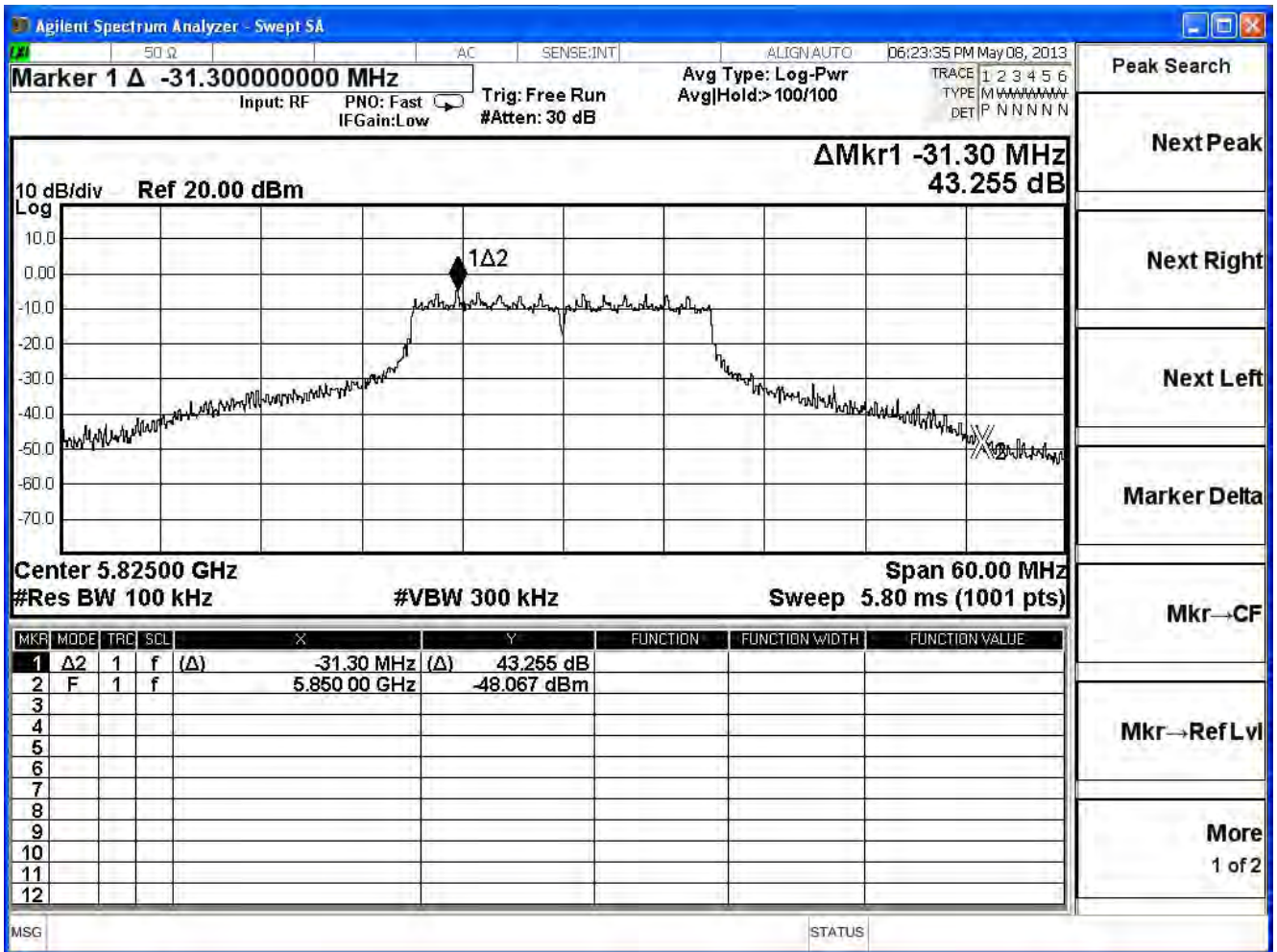
IEEE 802.11n (20MHz), (ANT 0) Duty Cycle: 1

Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
149	5745	35.619	≥ 20	Pass
165	5825	43.255	≥ 20	Pass

Channel 149 (5745MHz)



Channel 165 (5825MHz)

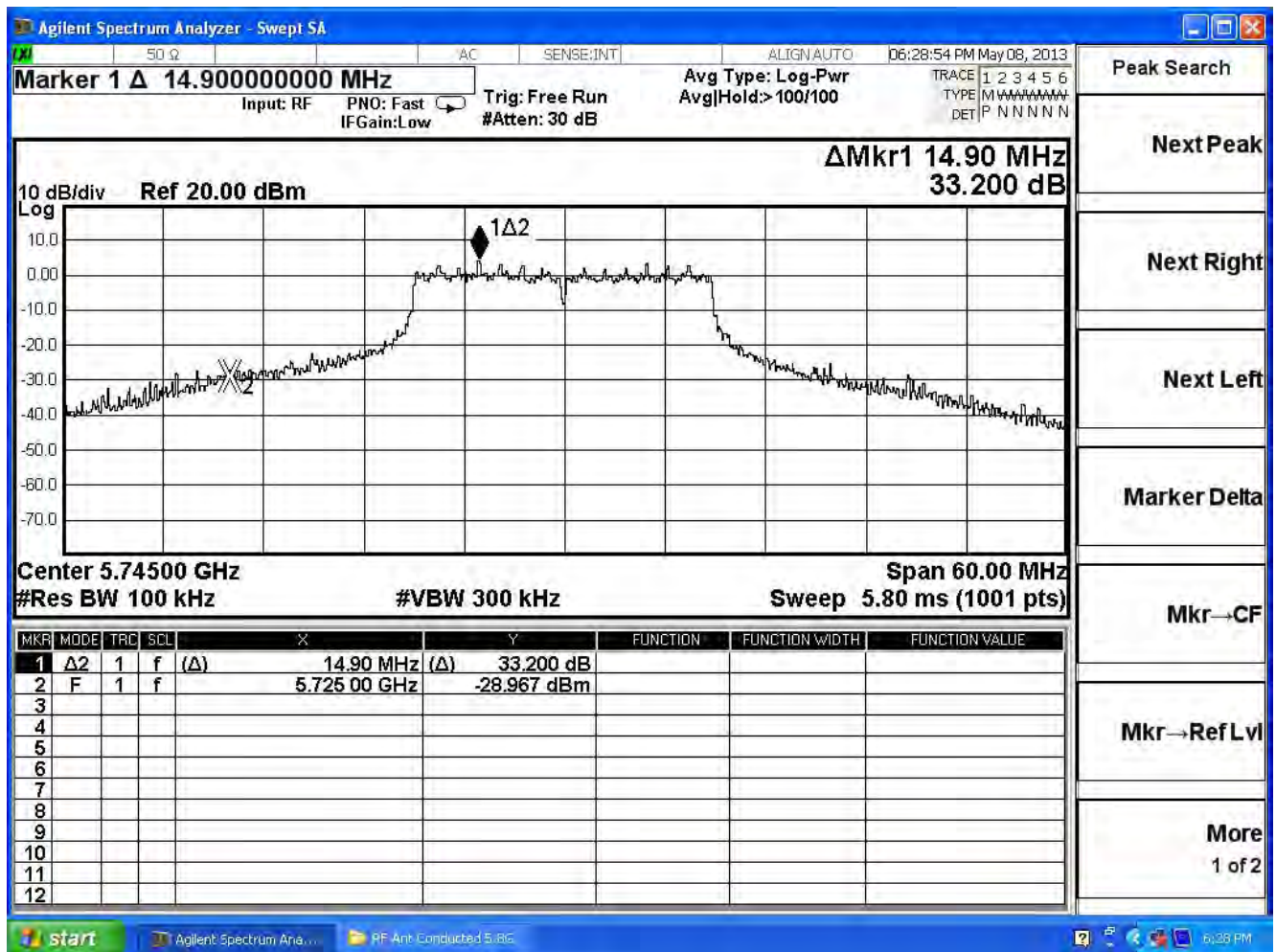


Product	11N Wireless LAN CARD		
Test Item	RF antenna conducted test		
Test Mode	Transmit		
Date of Test	2013/05/08	Test Site	SR7

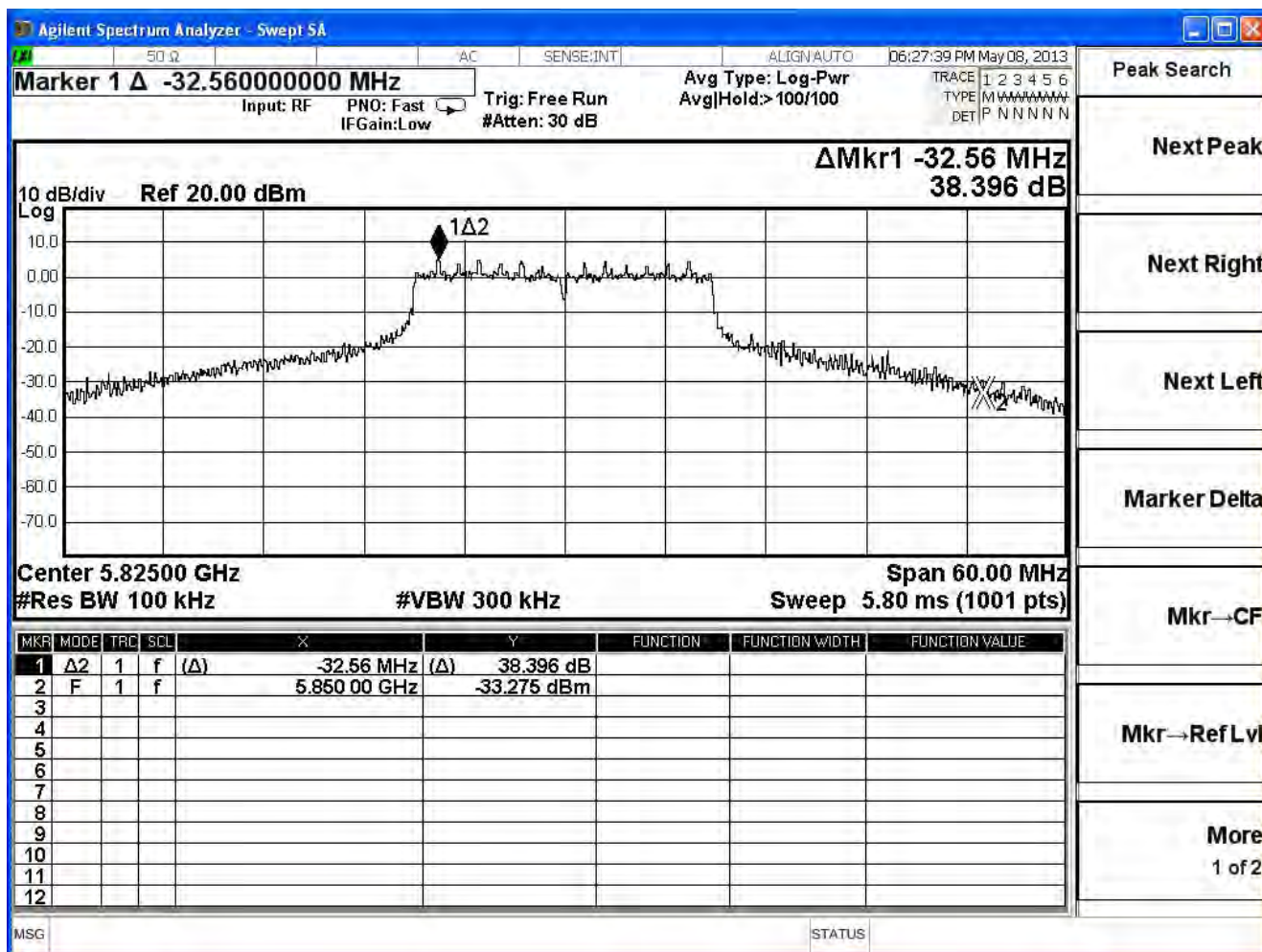
IEEE 802.11n (20MHz), (ANT 1) Duty Cycle: 1

Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
149	5745	33.200	≥ 20	Pass
165	5825	38.396	≥ 20	Pass

Channel 149 (5745MHz)



Channel 165 (5825MHz)

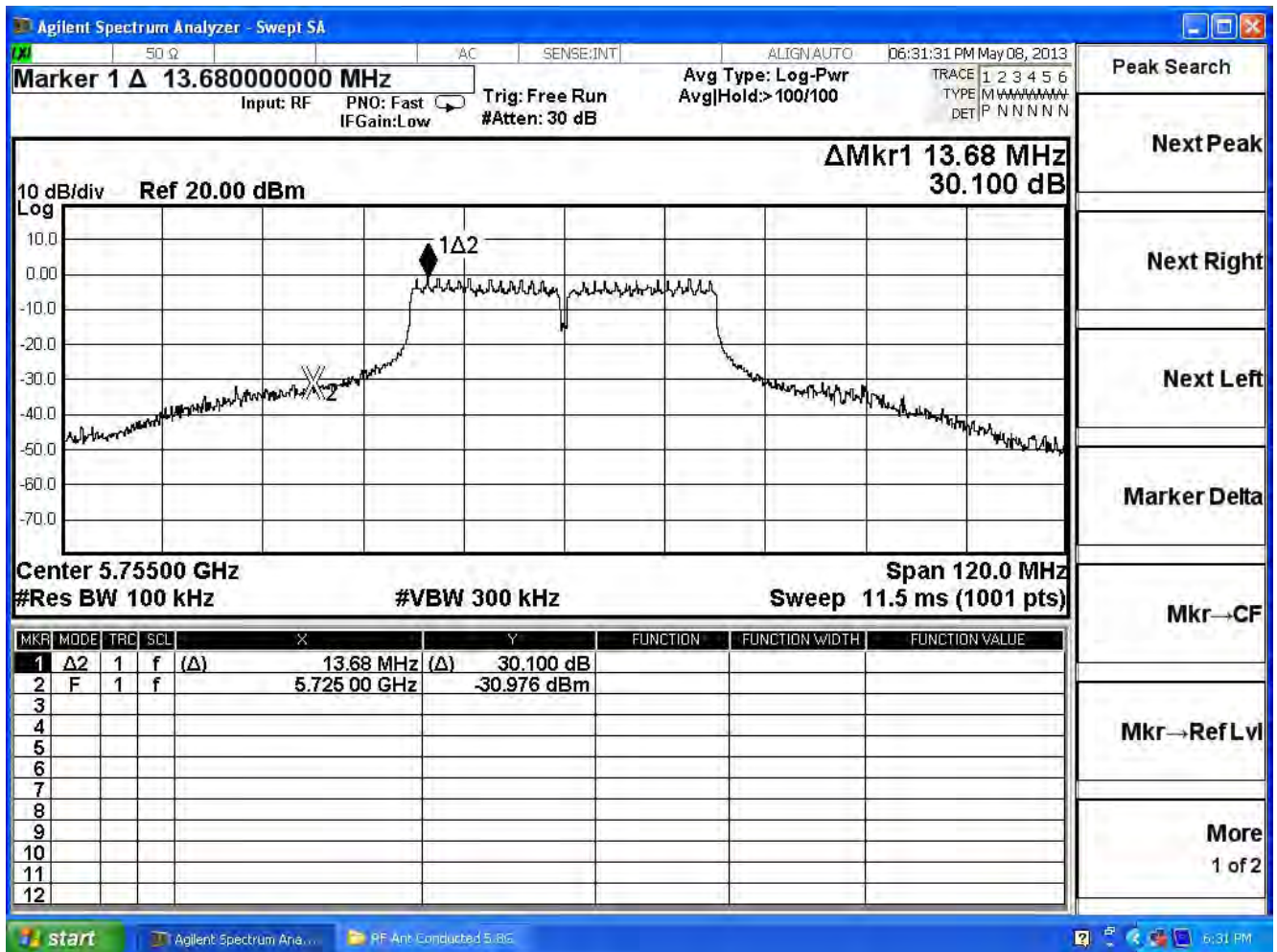


Product	11N Wireless LAN CARD		
Test Item	RF antenna conducted test		
Test Mode	Transmit		
Date of Test	2013/05/08	Test Site	SR7

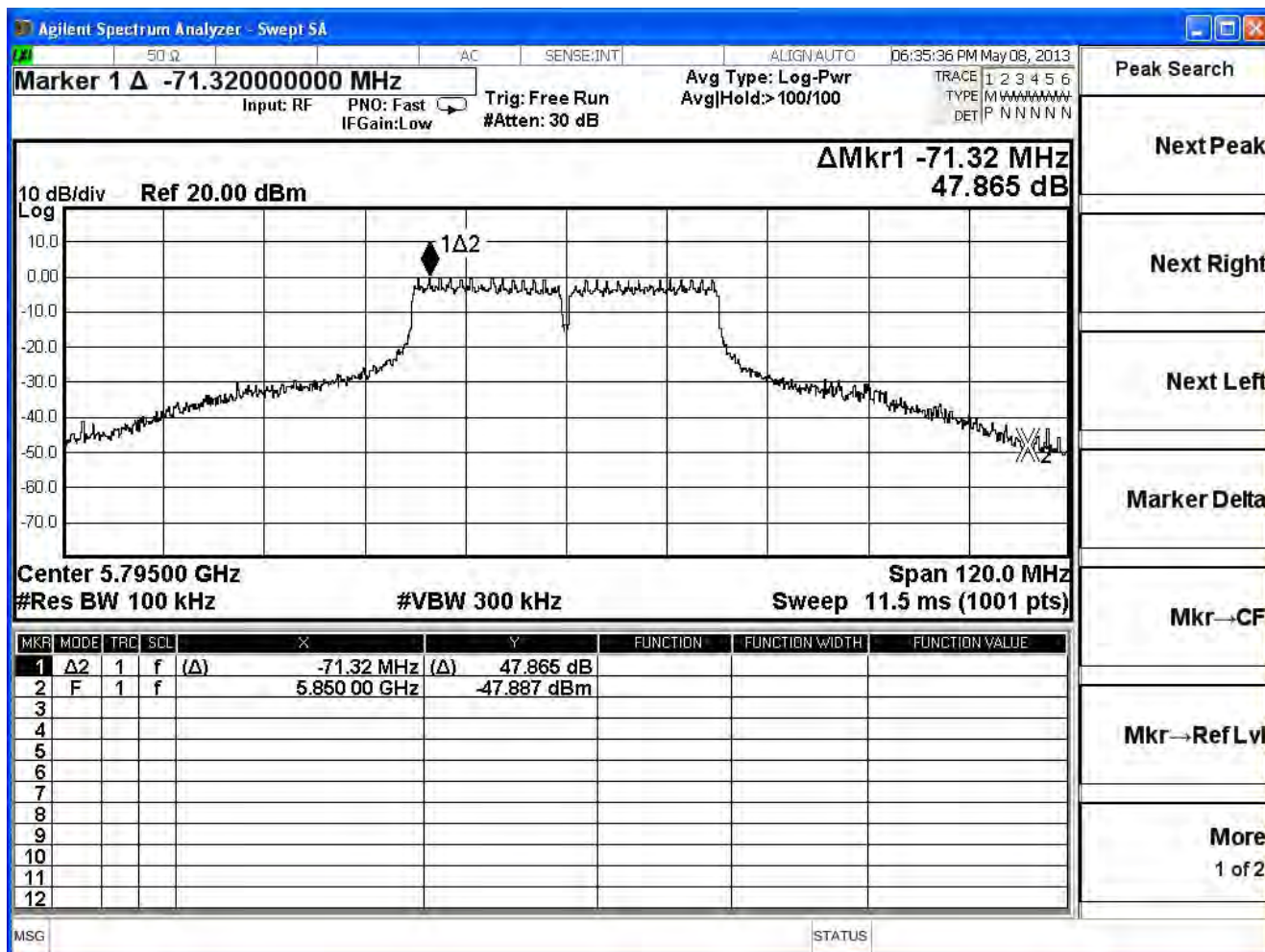
IEEE 802.11n (40MHz), (ANT 0) Duty Cycle: 1

Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
151	5755	30.100	≥ 20	Pass
159	5795	47.865	≥ 20	Pass

Channel 151 (5755MHz)



Channel 159 (5795MHz)



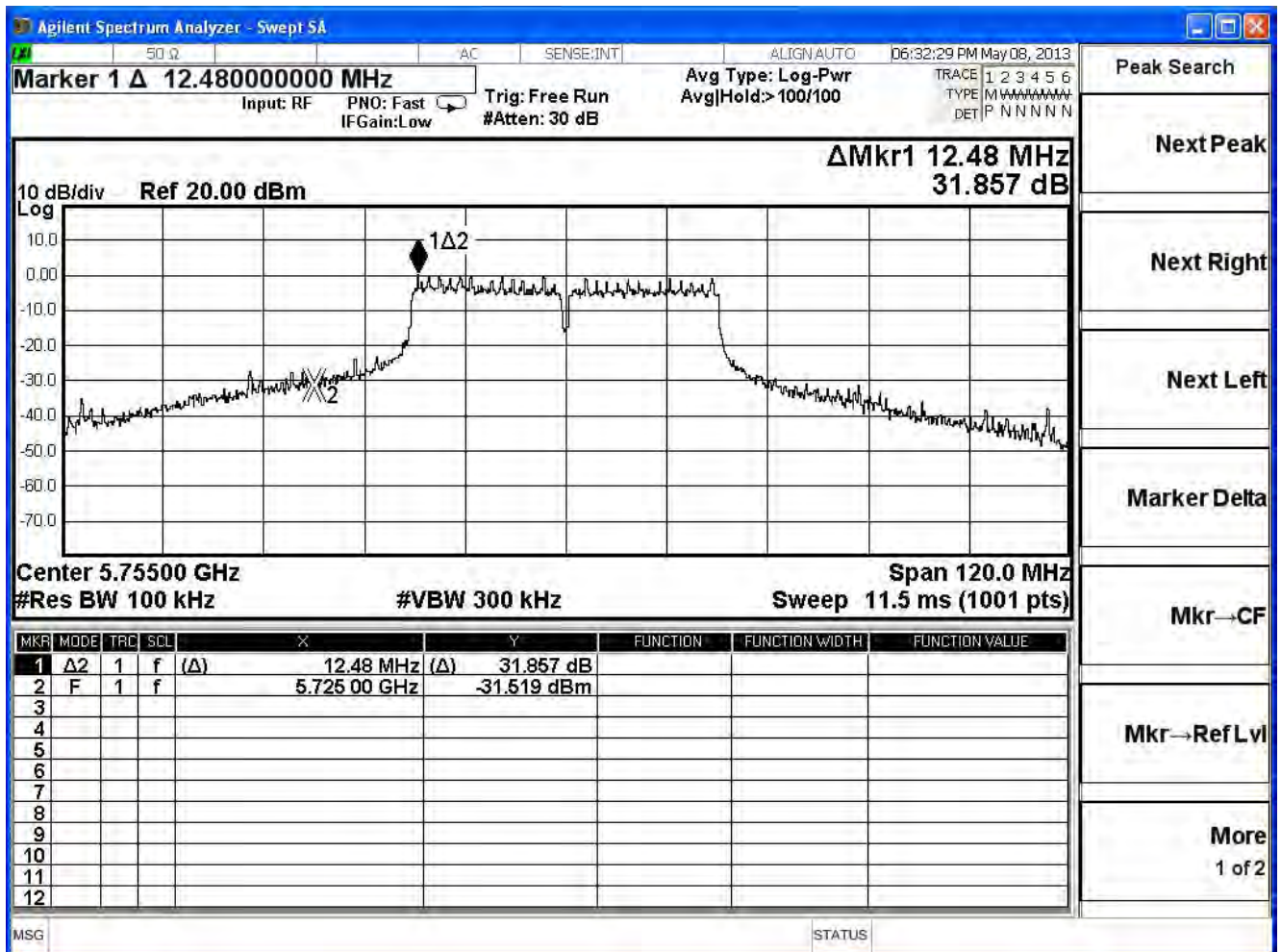
- Peak Search
- Next Peak
- Next Right
- Next Left
- Marker Delta
- Mkr→CF
- Mkr→Ref Lvl
- More
1 of 2

Product	11N Wireless LAN CARD		
Test Item	RF antenna conducted test		
Test Mode	Transmit		
Date of Test	2013/05/08	Test Site	SR7

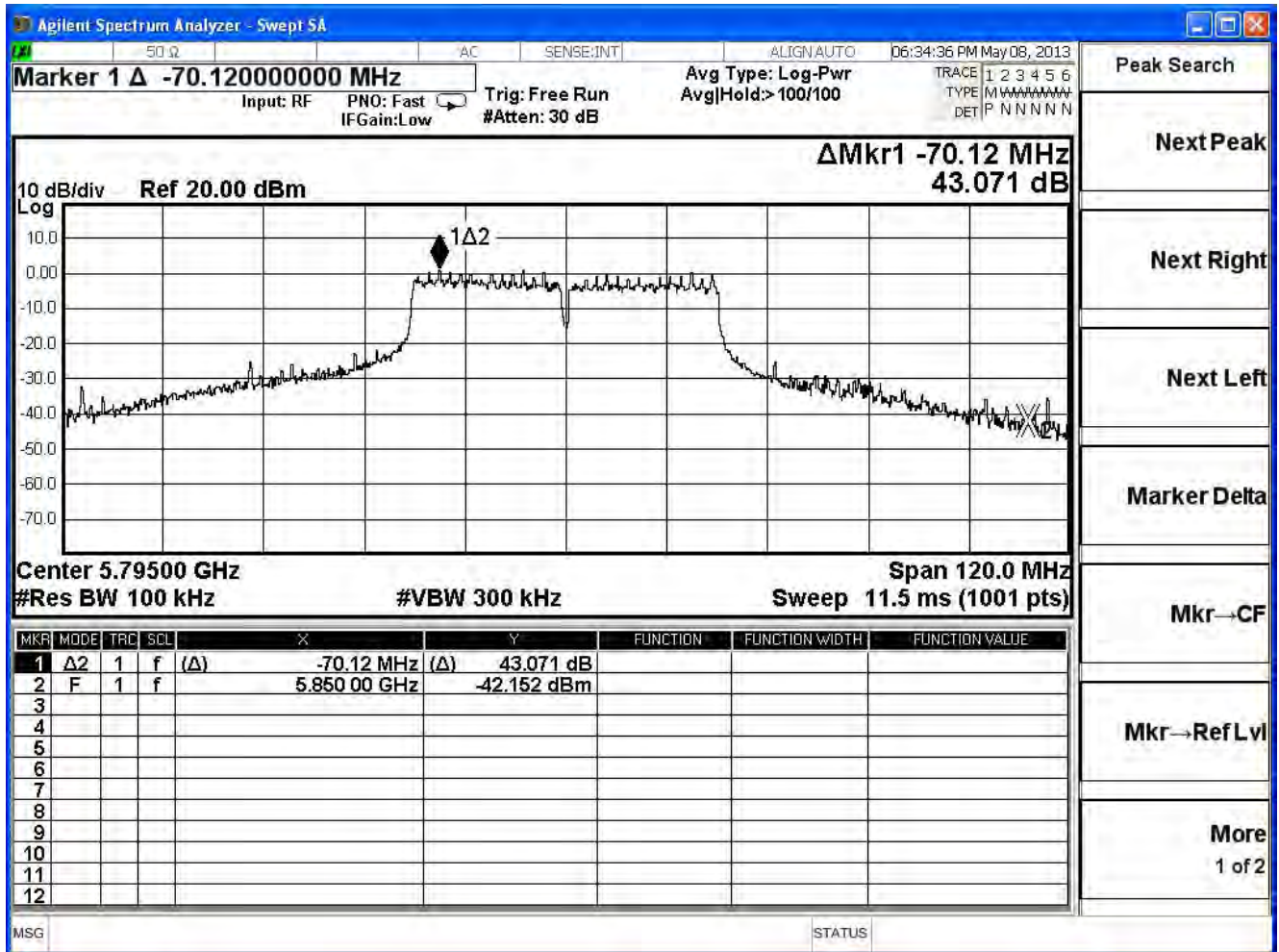
IEEE 802.11n (40MHz), (ANT 1) Duty Cycle: 1

Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
151	5755	31.857	≥ 20	Pass
159	5795	43.071	≥ 20	Pass

Channel 151 (5755MHz)

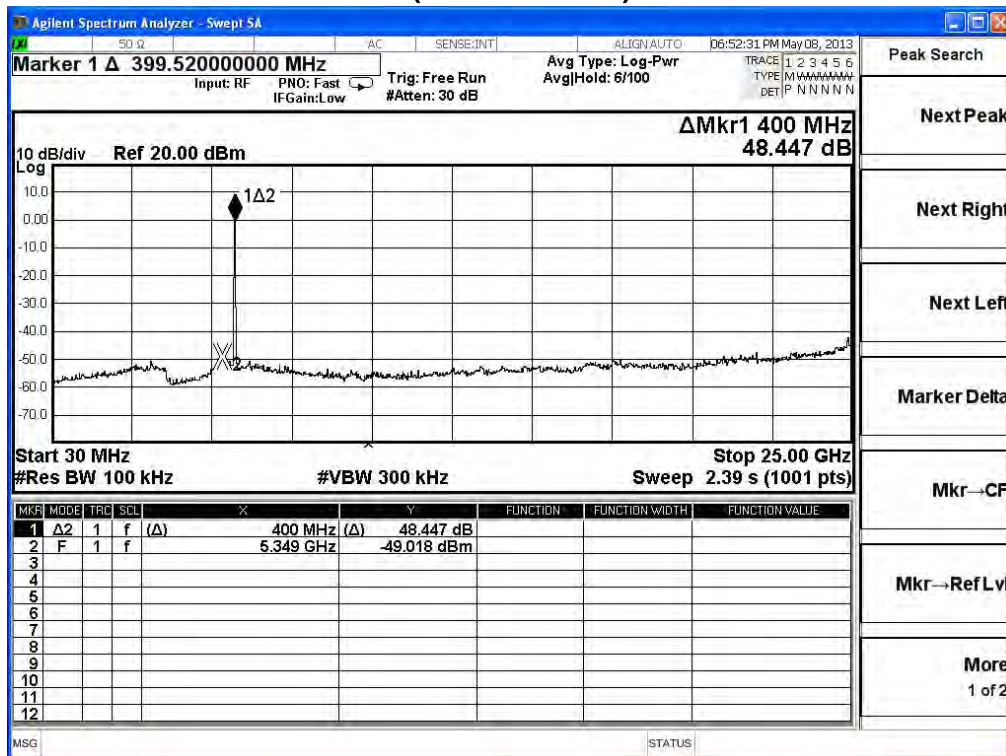


Channel 159 (5795MHz)

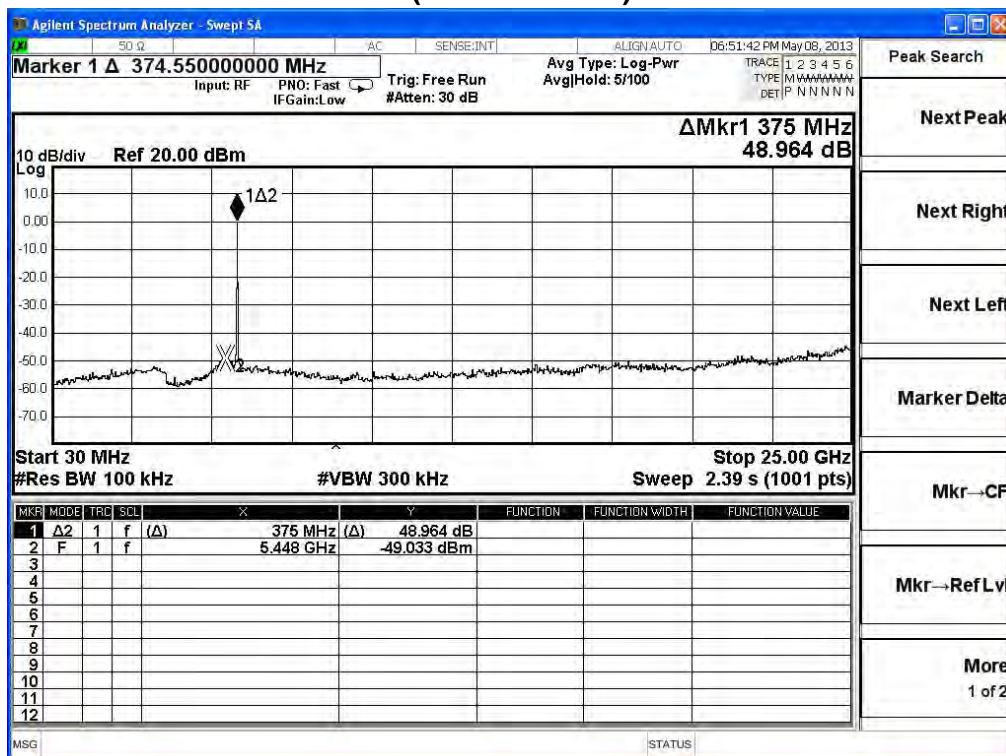


- Peak Search
- Next Peak
- Next Right
- Next Left
- Marker Delta
- Mkr→CF
- Mkr→Ref Lvl
- More
1 of 2

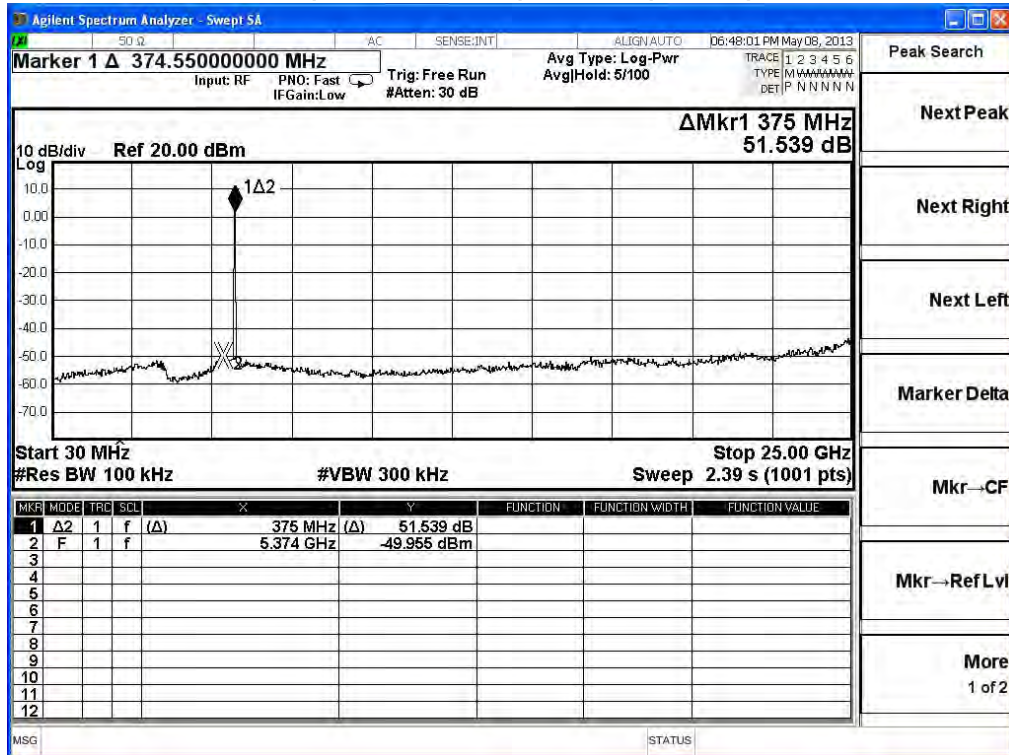
5745MHz (30MHz~25GHz)-802.11a



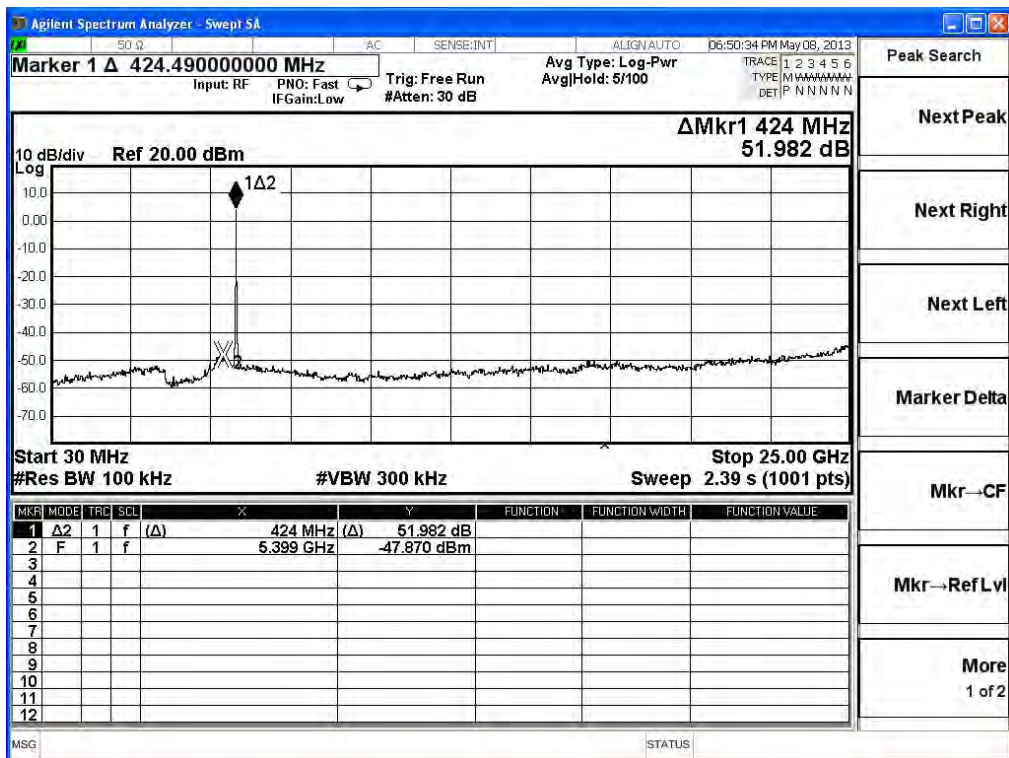
5825MHz (30MHz~25GHz)-802.11a



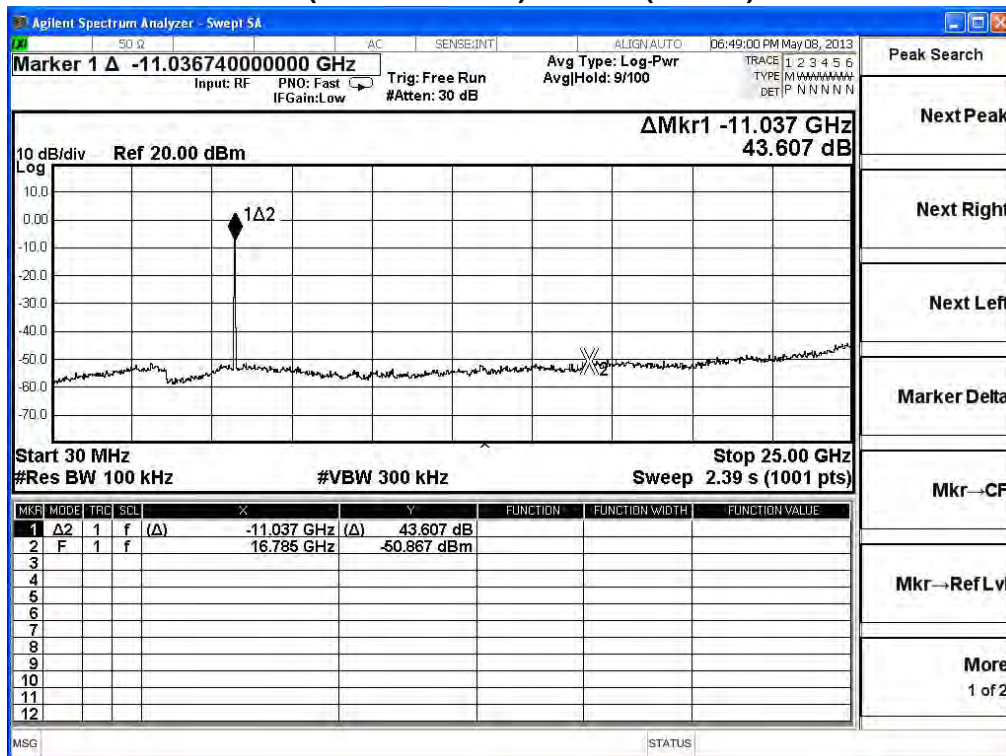
5745MHz (30MHz~25GHz)-802.11n(20MHz)-ANT 0



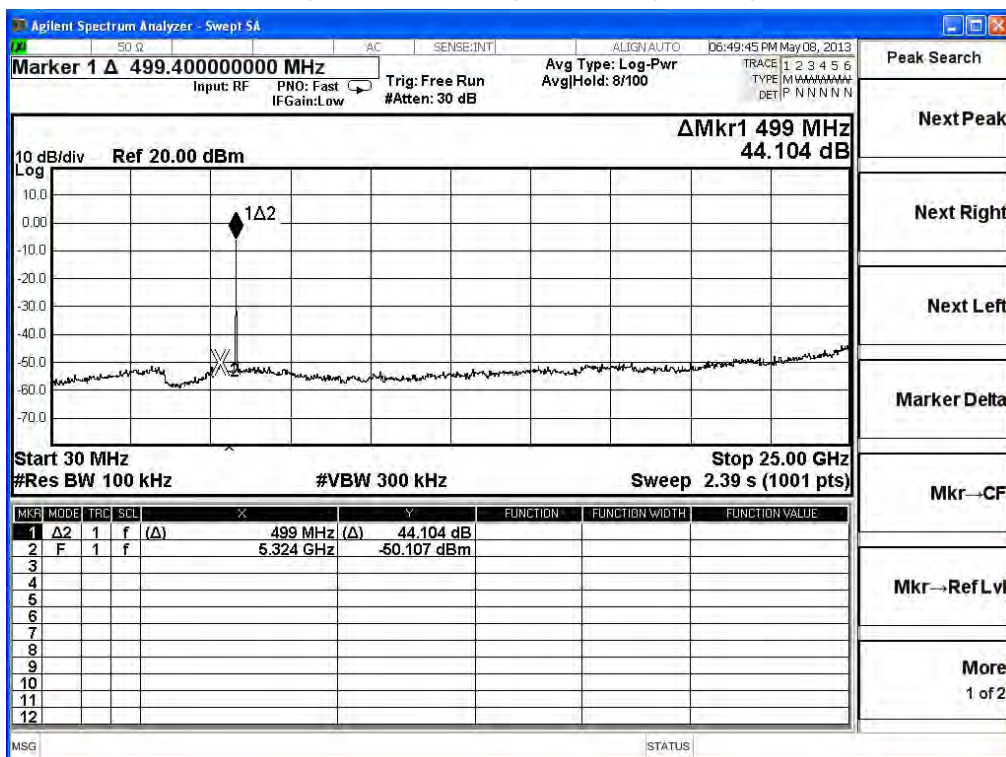
5825MHz (30MHz~25GHz) -802.11n(20MHz)-ANT 0



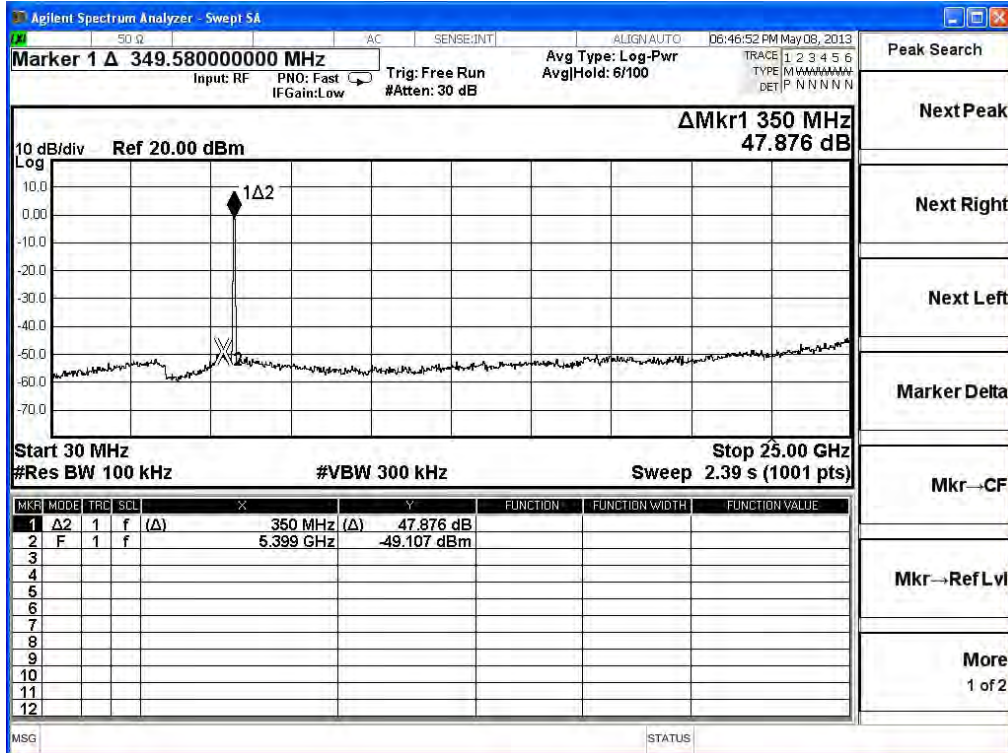
5745MHz (30MHz~25GHz)-802.11n(20MHz)-ANT 1



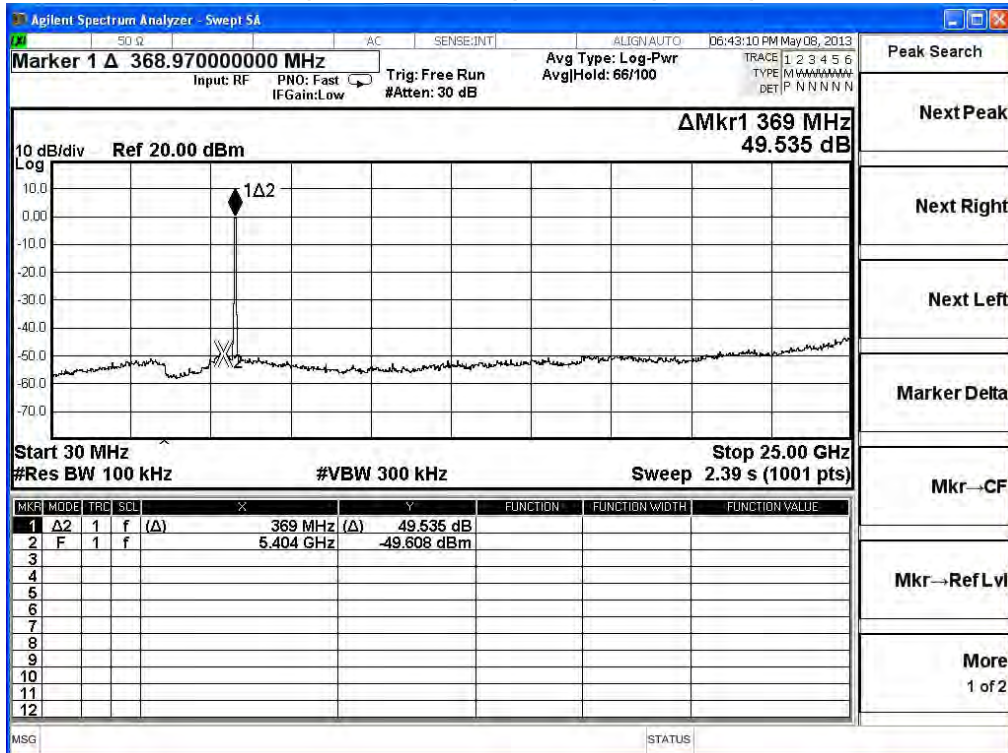
5825MHz (30MHz~25GHz) -802.11n(20MHz)-ANT 1



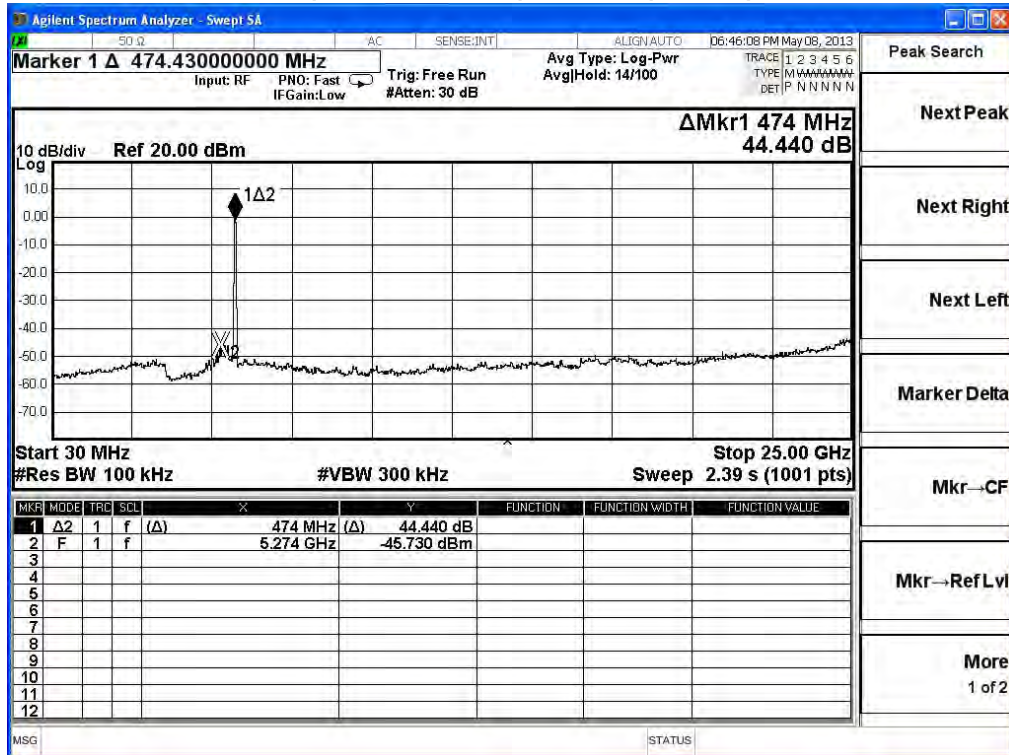
5755MHz (30MHz~25GHz)-802.11n(40MHz)-ANT 0



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



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



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

