

FCC Test Report

Product Name : Wireless-N300 Cloud Router

Model No. : RT-N14U

FCC ID. : MSQ-RTN14U

Applicant : ASUSTeK COMPUTER INC.

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

Date of Receipt : 2012/11/19

Issued Date : 2013/04/22

Report No. : 12B298R-RFUSP42V01

Report Version : V1.0



The test results relate only to the samples tested.

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Test Report Certification

Issued Date : 2013/04/22

Report No. : 12B298R-RFUSP42V01



Product Name : Wireless-N300 Cloud Router
 Applicant : ASUSTeK COMPUTER INC.
 Address : 4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan
 Manufacturer : ASUSTeK COMPUTER INC.
 Model No. : RT-N14U
 FCC ID. : MSQ-RTN14U
 EUT Test Voltage : AC 100-240V, 50-60Hz
 Trade Name : ASUS
 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 / Engineering Adm. Specialist)

Reviewed By :

(Sabrina Tsai / Assistant 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:

HsinChu Testing Laboratory:

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

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

E-Mail : service@quietek.com

Linkou Testing Laboratory:

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

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

E-Mail : service@quietek.com

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1. General Information

1.1. EUT Description

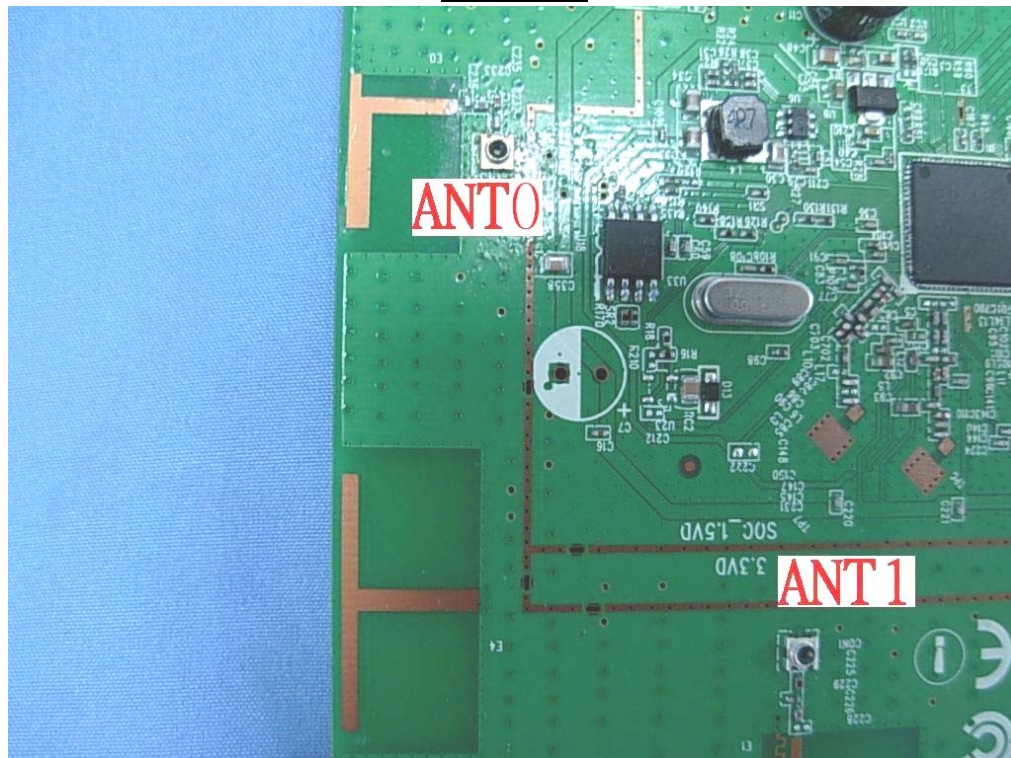
Product Name	Wireless-N300 Cloud Router
Product Type	WLAN (2TX, 2RX)
Trade Name	ASUS
Model No.	RT-N14U
Frequency Range -IEEE 802.11b/g & IEEE 802.11n (20MHz)	2412~2462MHz / 11 channels
Frequency Range-IEEE 802.11n (40MHz)	2422~2452MHz / 7 channels
Type of Modulation (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Type of Modulation (IEEE 802.11g/n)	Orthogonal Frequency Division Multiplexing (OFDM)
Data Speed (IEEE 802.11b)	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data Speed (IEEE 802.11g)	6Mbps,9Mbps,12Mbps,18Mbps,24Mbps,36Mbps,48Mbps,54Mbps
Data Speed (IEEE 802.11n)	Support a subset of the combination of GI, MCS 0~MCS 15 and bandwidth defined in 802.11n
Antenna Gain	Ant0: 2.85dBi, Ant1: 2.96dBi
Antenna Type	PCB Antenna

Component	
LAN Cable	Non-Shielded, 1m
Power Adapter	DVE, DSA-12PFA-09 FUS 120100 I/P: 100-240V~50/60Hz, 0.5A O/P: +12V $\equiv$ 1A Cable Out: Non-Shielded, 1.6m
Power Adapter	PHIHONG, PSA12A-120 I/P: 100-240V~0.5A 50-60Hz O/P: 12V $\equiv$ 1.0A Cable Out: Non-Shielded, 1.6m, one ferrite core bonded.

ANT-TX / Rx & Bandwidth

ANT-TX / RX	TX		RX	
Mode/ Channel Bandwidth	20MHz	40MHz	20MHz	40MHz
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 (Note1)	
								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 (Note1)	
								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		

Note:

1. This device is a Wireless-N300 Cloud Router including 2.4GHz b/g/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. This device is a composite device in accordance with Part 15 regulations. The receiving function receiving was tested and its test report number is 12B298R-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 (DSA-12PFA-09)
	Mode 2: Transmit (PSA12A-120)

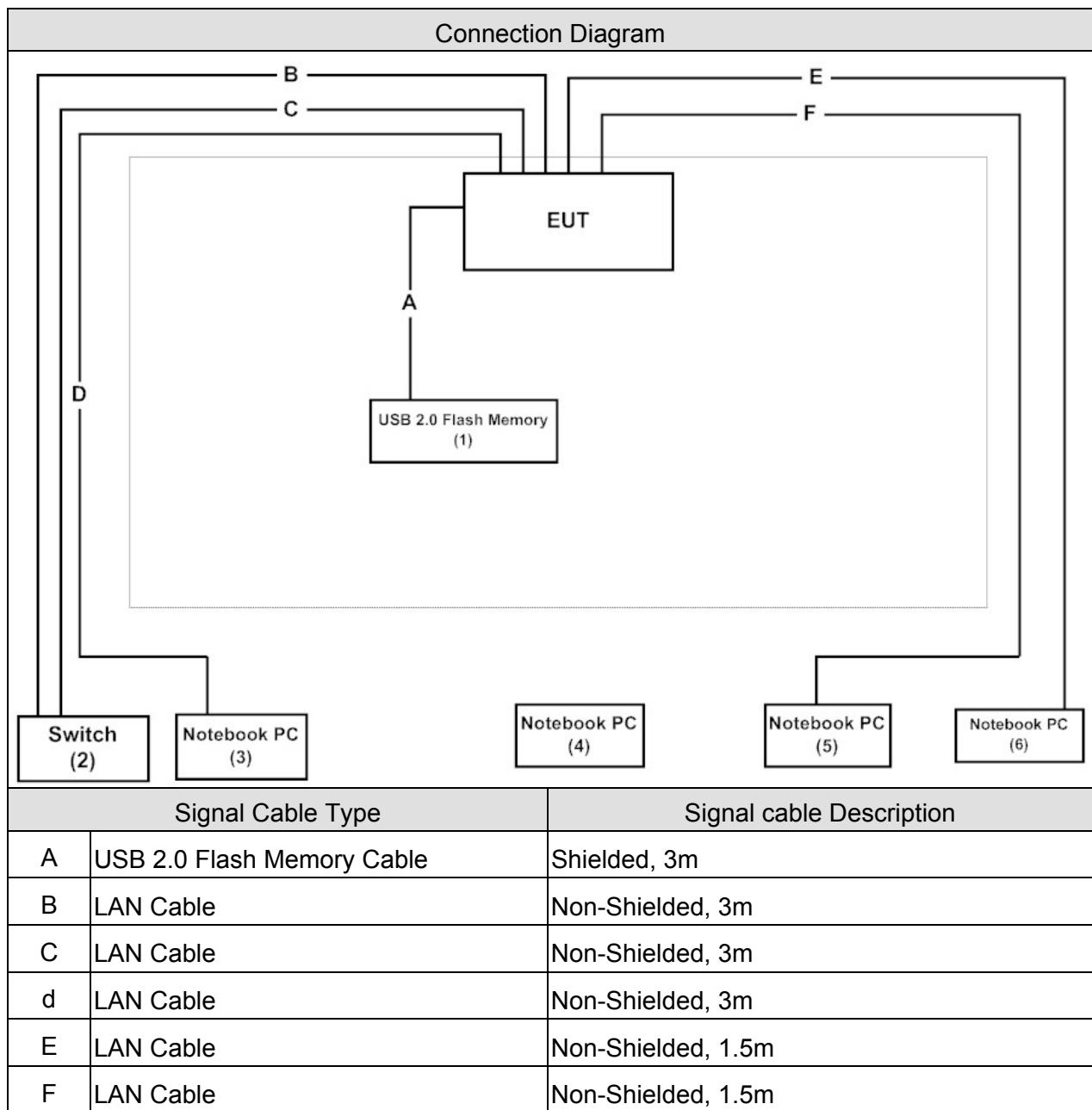
Test Items	Mode	Channel	Antenna	Result
Conducted Emission	11n(40MHz)	6	0+1	Complies
Peak Power Output	b/g	1/ 6/ 11	0	Complies
	11n(20MHz)	1/ 6/ 11	0+1	Complies
	11n(40MHz)	3/ 6/ 9	0+1	Complies
Radiated Emission	b/g	1/ 6/ 11	0	Complies
	11n(20MHz)	1/ 6/ 11	0+1	Complies
	11n(40MHz)	3/ 6/ 9	0+1	Complies
RF antenna conducted test	b/g	1/ 11	0	Complies
	11n(20MHz)	1/ 11	0/1	Complies
	11n(40MHz)	3/ 9	0/1	Complies
Radiated Emission Band Edge	b/g	1/ 11	0	Complies
	11n(20MHz)	1/ 11	0+1	Complies
	11n(40MHz)	3/ 9	0+1	Complies
Occupied Bandwidth	b/g	1/ 6/ 11	0	Complies
	11n(20MHz)	1/ 6/ 11	0/1	Complies
	11n(40MHz)	3/ 6/ 9	0/1	Complies
Power Density	b/g	1/ 6/ 11	0	Complies
	11n(20MHz)	1/ 6/ 11	0+1	Complies
	11n(40MHz)	3/ 6/ 9	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	USB 2.0 Flash Memory	Apacer	AH223	N/A	DoC	--
2	Switch	D-Link	DGS1216T	F360298000076	DoC	Non-Shielded, 1.8m
3	Notebook PC	HP	HSTNN-146C	CNU8253S1X	DoC	Non-Shielded, 1.8m
4	Notebook PC	ACER	MS2296	LUSCV021391150332C2000	DoC	Non-Shielded, 2.5m one ferrite core bonded
5	Notebook PC	DELL	Vostro3400	7F808N1	DoC	Non-Shielded, 1.8m
6	Notebook PC	HP Compaq	NX6320FF	CNU7020BXT	DoC	Non-Shielded, 1.8m

1.5. Configuration of tested System



1.6. EUT Exercise Software

1	Setup the EUT as shown in Section 1.5.
2	Execute the test program "MT7620 Ver.1.0.6.0 AP" on the notebook.
3	Configure the test mode, the test channel, and the data rate.
4	Press "Start TX" to start the continuous transmitting.
5	Verify that the EUT works properly.

1.7. 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	45
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Peak Power Output (DSSS)	15 - 35	20
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	20
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 RF antenna conducted test (DSSS)	15 - 35	20
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	20
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Occupied Bandwidth (DSSS)	15 - 35	20
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	20
Humidity (%RH)		25 - 75	45
Barometric pressure (mbar)		860 - 1060	950-1000

2. Conducted Emission

2.1. Test Equipment

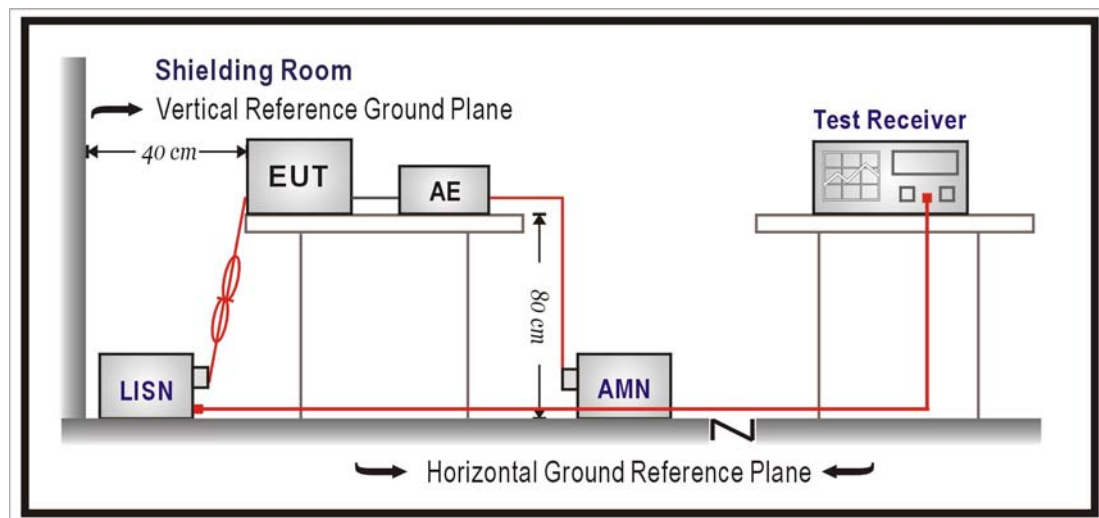
The following test equipments are used during the test:

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

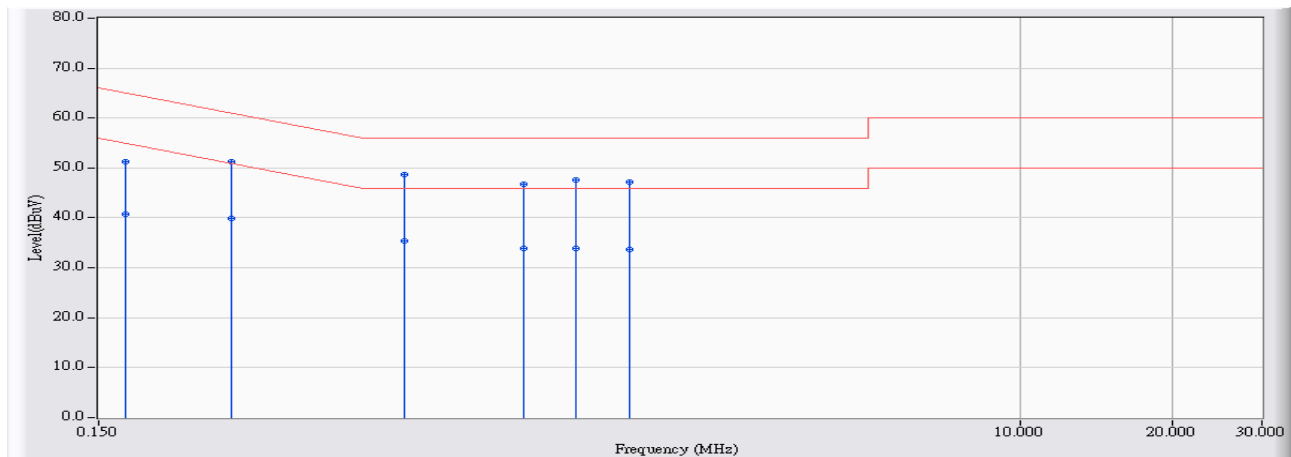
According to FCC Part 15 Subpart C Paragraph 15.207: 2012

2.6. Uncertainty

The measurement uncertainty is defined as ± 2.26 dB.

2.7. Test Result

Site : SR2	Time : 2013/03/11 - 19:11
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-3_0822 - Line1	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : Mode 1: Transmit (DSA-12PFA-09) 802.11n 40MHz 2437MHz

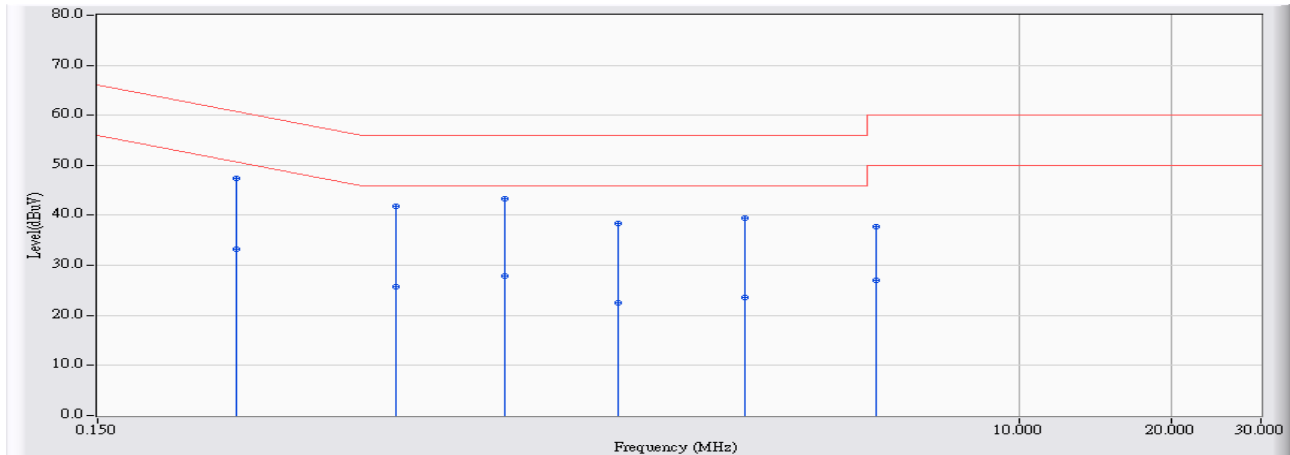


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.170	9.638	41.560	51.198	-13.785	64.983	QUASIPeAK
2		0.170	9.638	31.130	40.768	-14.215	54.983	AVERAGE
3		0.275	9.665	41.700	51.365	-9.600	60.966	QUASIPeAK
4		0.275	9.665	30.310	39.975	-10.990	50.966	AVERAGE
5	*	0.603	9.733	38.880	48.613	-7.387	56.000	QUASIPeAK
6		0.603	9.733	25.720	35.453	-10.547	46.000	AVERAGE
7		1.037	9.744	36.940	46.684	-9.316	56.000	QUASIPeAK
8		1.037	9.744	24.240	33.984	-12.016	46.000	AVERAGE
9		1.318	9.775	37.790	47.565	-8.435	56.000	QUASIPeAK
10		1.318	9.775	24.120	33.895	-12.105	46.000	AVERAGE
11		1.681	9.815	37.450	47.265	-8.735	56.000	QUASIPeAK
12		1.681	9.815	23.860	33.675	-12.325	46.000	AVERAGE

Note:

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

Site : SR2	Time : 2013/03/11 - 19:16
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-3_0822 - Line2	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : Mode 1: Transmit (DSA-12PFA-09) 802.11n 40MHz 2437MHz

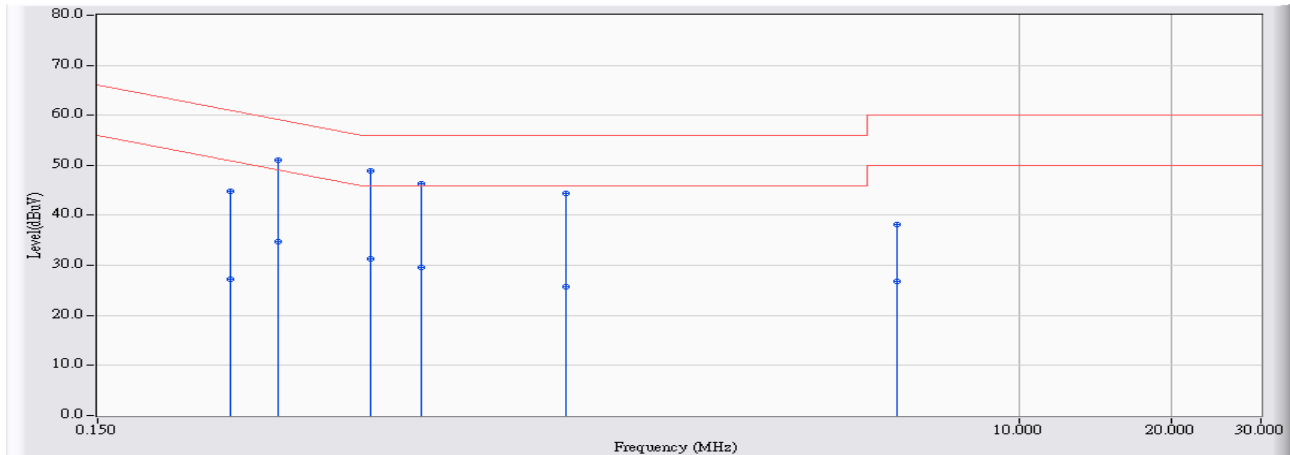


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.283	9.654	37.680	47.334	-13.399	60.733	QUASIPeAK
2		0.283	9.654	23.550	33.204	-17.529	50.733	AVERAGE
3		0.584	9.713	32.100	41.813	-14.187	56.000	QUASIPeAK
4		0.584	9.713	15.990	25.703	-20.297	46.000	AVERAGE
5	*	0.955	9.719	33.670	43.389	-12.611	56.000	QUASIPeAK
6		0.955	9.719	18.070	27.789	-18.211	46.000	AVERAGE
7		1.605	9.786	28.570	38.357	-17.643	56.000	QUASIPeAK
8		1.605	9.786	12.670	22.457	-23.543	46.000	AVERAGE
9		2.861	9.868	29.520	39.387	-16.613	56.000	QUASIPeAK
10		2.861	9.868	13.700	23.567	-22.433	46.000	AVERAGE
11		5.197	9.970	27.750	37.720	-22.280	60.000	QUASIPeAK
12		5.197	9.970	17.010	26.980	-23.020	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 : 2013/03/11 - 19:28
Limit : CISPR B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-3_0822 - Line1	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : Mode 2: Transmit (PSA12A-120) 802.11n 40MHz 2437MHz

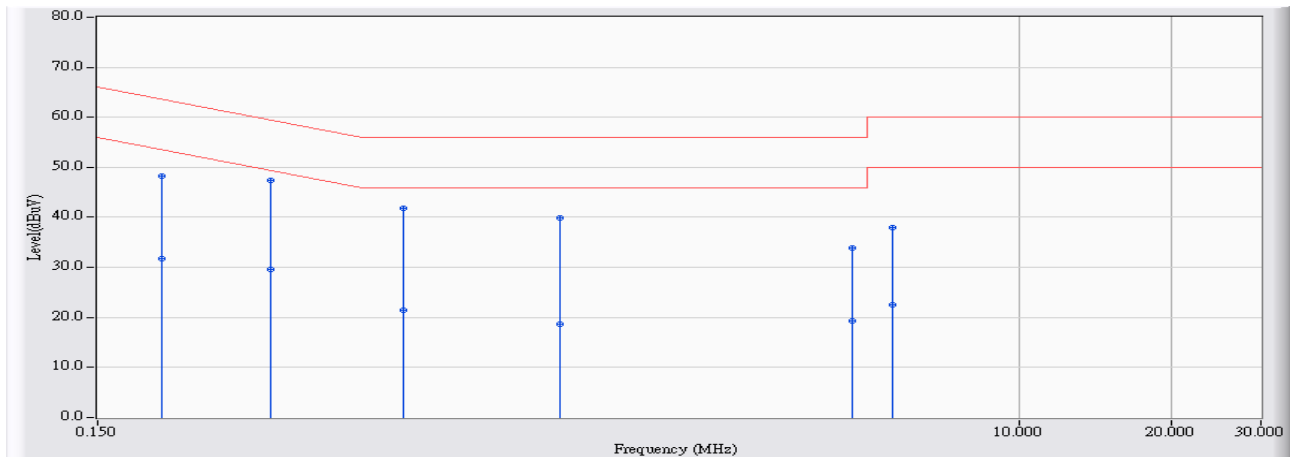


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.275	9.665	35.220	44.885	-16.072	60.957	QUASIPeAK
2		0.275	9.665	17.550	27.215	-23.742	50.957	AVERAGE
3		0.341	9.684	41.440	51.124	-8.045	59.169	QUASIPeAK
4		0.341	9.684	25.140	34.824	-14.345	49.169	AVERAGE
5		0.521	9.732	21.560	31.292	-14.708	46.000	AVERAGE
6	*	0.521	9.732	39.210	48.942	-7.058	56.000	QUASIPeAK
7		0.654	9.734	36.570	46.304	-9.696	56.000	QUASIPeAK
8		0.654	9.734	19.970	29.704	-16.296	46.000	AVERAGE
9		1.263	9.769	34.730	44.499	-11.501	56.000	QUASIPeAK
10		1.263	9.769	15.900	25.669	-20.331	46.000	AVERAGE
11		5.713	9.988	28.170	38.158	-21.842	60.000	QUASIPeAK
12		5.713	9.988	16.820	26.808	-23.192	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 : 2013/03/11 - 19:33
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-3_0822 - Line2	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : Mode 2: Transmit (PSA12A-120) 802.11n 40MHz 2437MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.201	9.634	38.670	48.304	-15.274	63.578	QUASIPeAK
2		0.201	9.634	22.020	31.654	-21.924	53.578	AVERAGE
3	*	0.330	9.665	37.720	47.385	-12.074	59.459	QUASIPeAK
4		0.330	9.665	19.950	29.615	-19.844	49.459	AVERAGE
5		0.603	9.713	32.170	41.883	-14.117	56.000	QUASIPeAK
6		0.603	9.713	11.800	21.513	-24.487	46.000	AVERAGE
7		1.236	9.746	30.060	39.806	-16.194	56.000	QUASIPeAK
8		1.236	9.746	8.930	18.676	-27.324	46.000	AVERAGE
9		4.666	9.948	23.860	33.808	-22.192	56.000	QUASIPeAK
10		4.666	9.948	9.410	19.358	-26.642	46.000	AVERAGE
11		5.591	9.983	28.010	37.993	-22.007	60.000	QUASIPeAK
12		5.591	9.983	12.570	22.553	-27.447	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

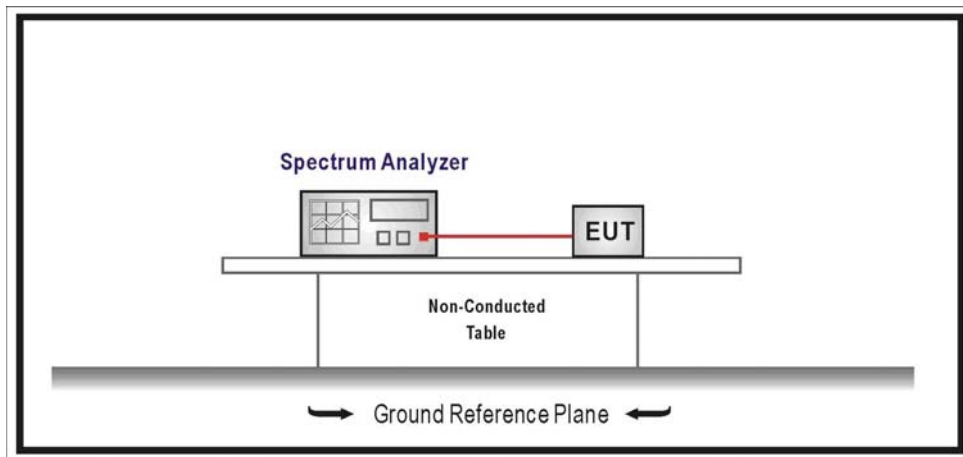
The following test equipments are used during the test:

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	Wireless-N300 Cloud Router		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit (DSA-12PFA-09)		
Date of Test	2013/04/09	Test Site	SR7

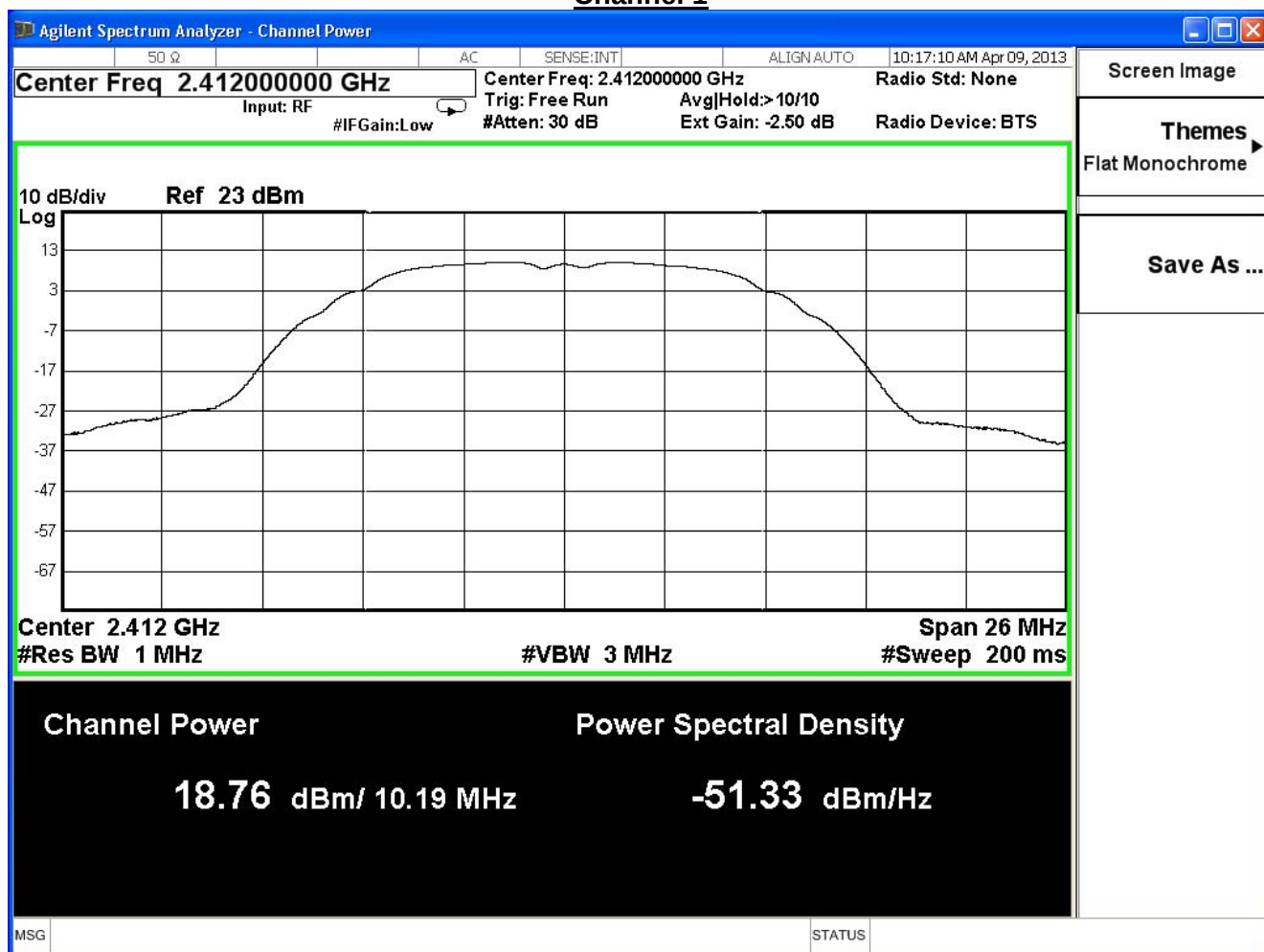
IEEE 802.11b				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	18.76	30	Pass
6	2437	18.62	30	Pass
11	2462	19.63	30	Pass

The worst emission of data rate is 1Mbps.

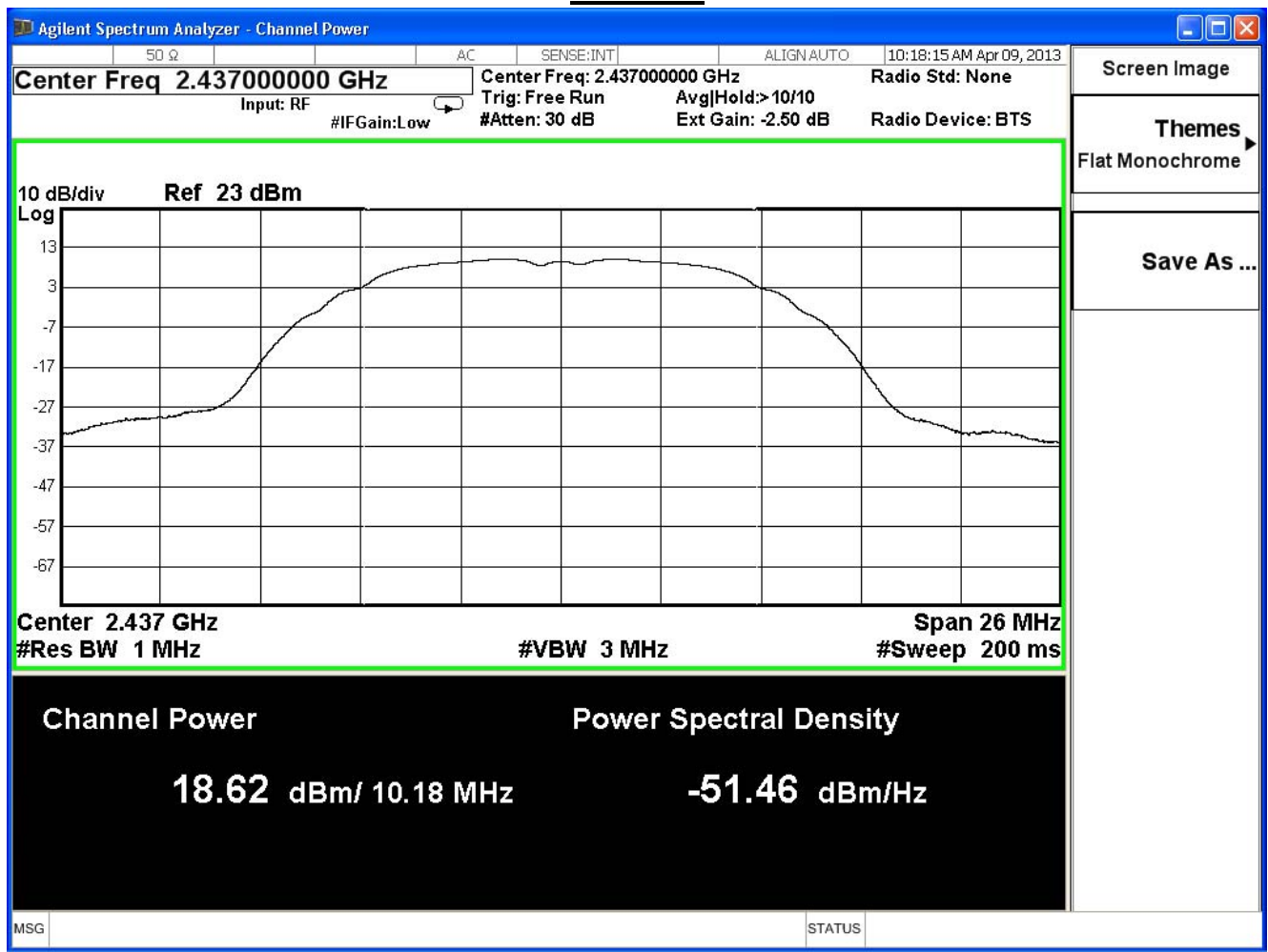
Peak Power Output Value (dBm)						
Channel No.	Frequency (MHz)	Data Rate				Required Limit
		1	2	5.5	11	
1	2412	18.76	--	--	-	1 Watt=30dBm
6	2437	18.62	18.61	18.60	18.59	1 Watt=30dBm
11	2462	19.63	--	--	-	1 Watt=30dBm

Note: Measure Level =Reading value + cable loss

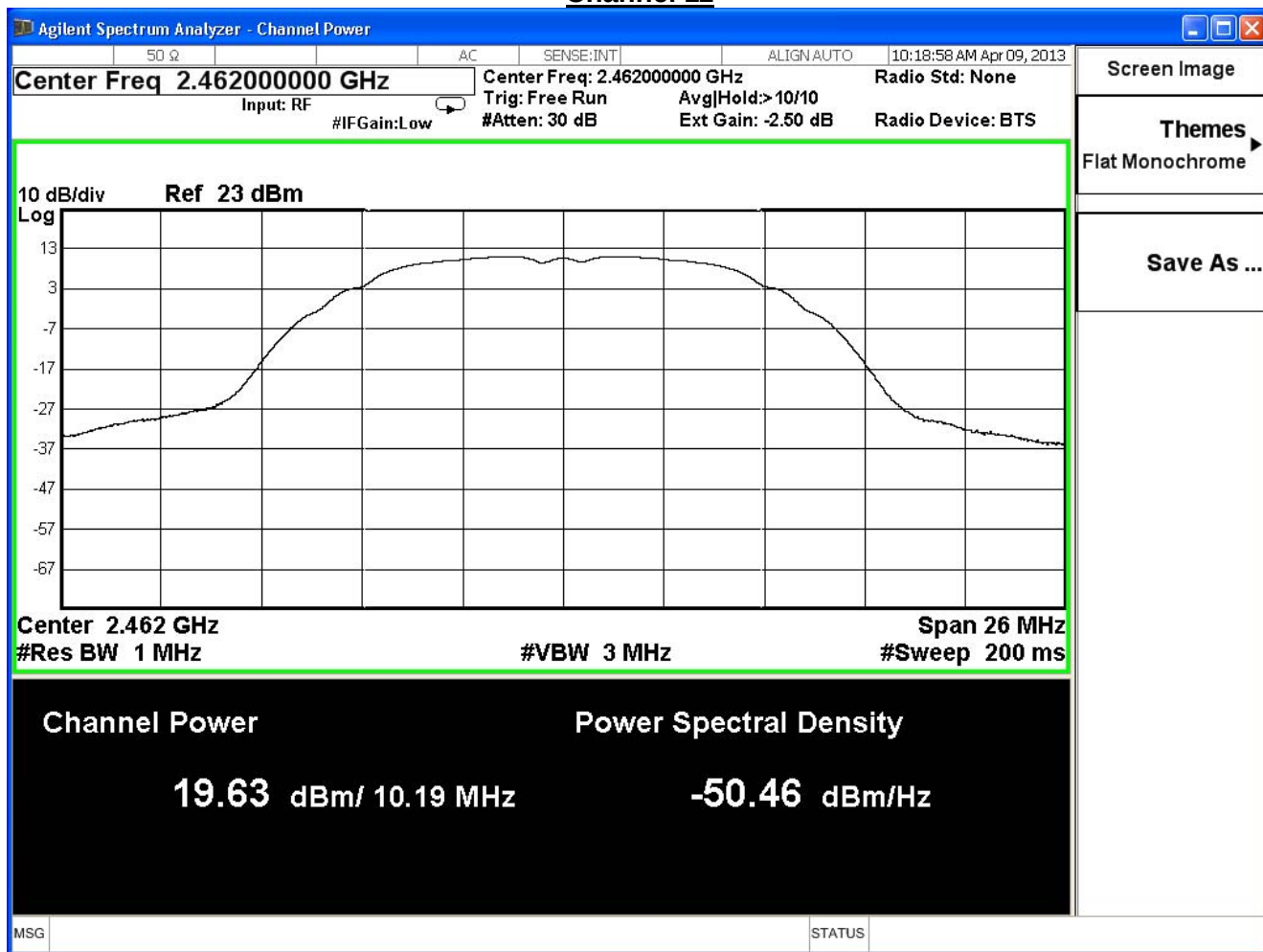
Channel 1



Channel 6



Channel 11



Product	Wireless-N300 Cloud Router		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit (DSA-12PFA-09)		
Date of Test	2013/04/09	Test Site	SR7

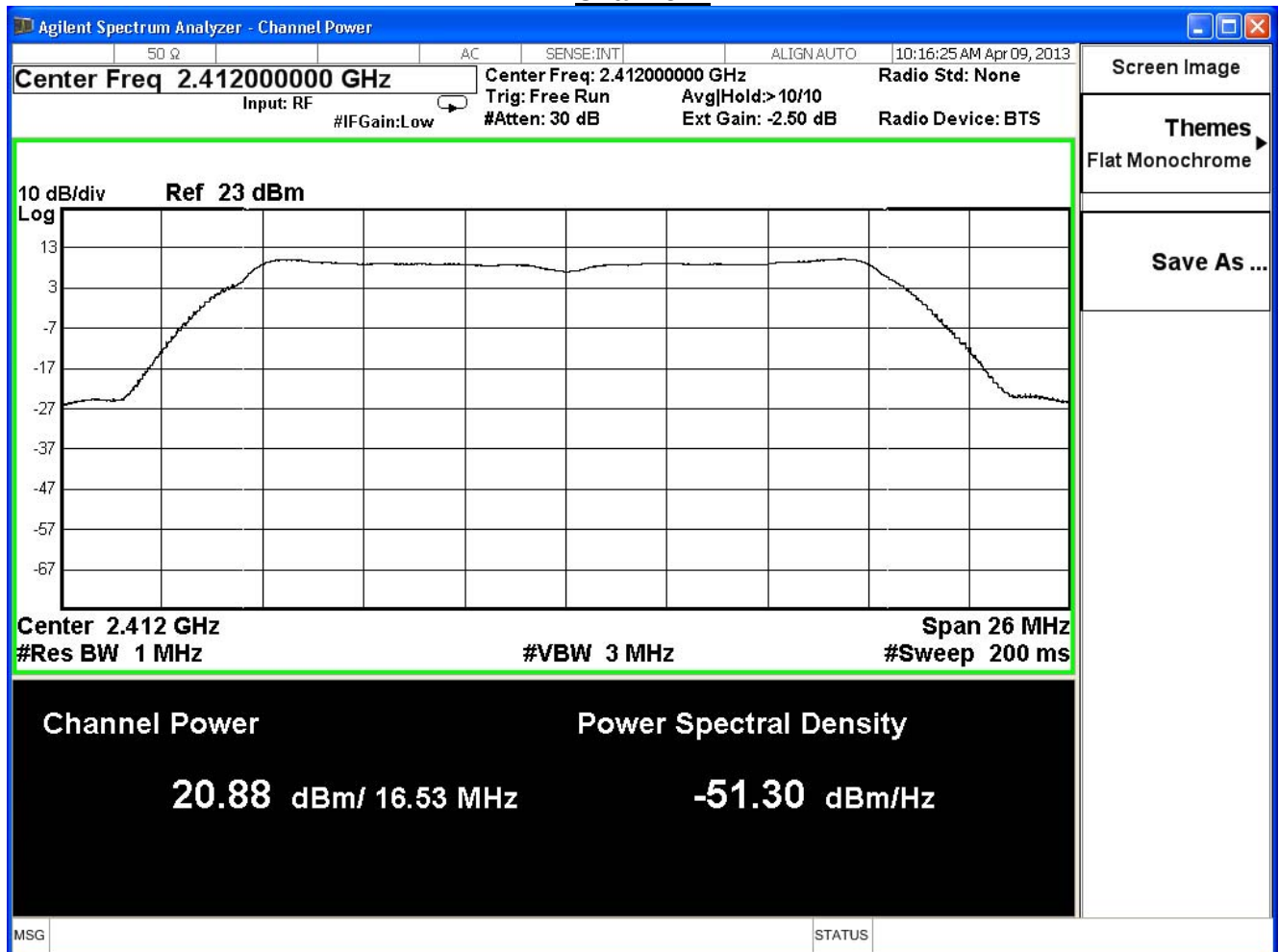
IEEE 802.11g				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	20.88	30	Pass
6	2437	26.33	30	Pass
11	2462	19.75	30	Pass

The worst emission of data rate is 6Mbps.

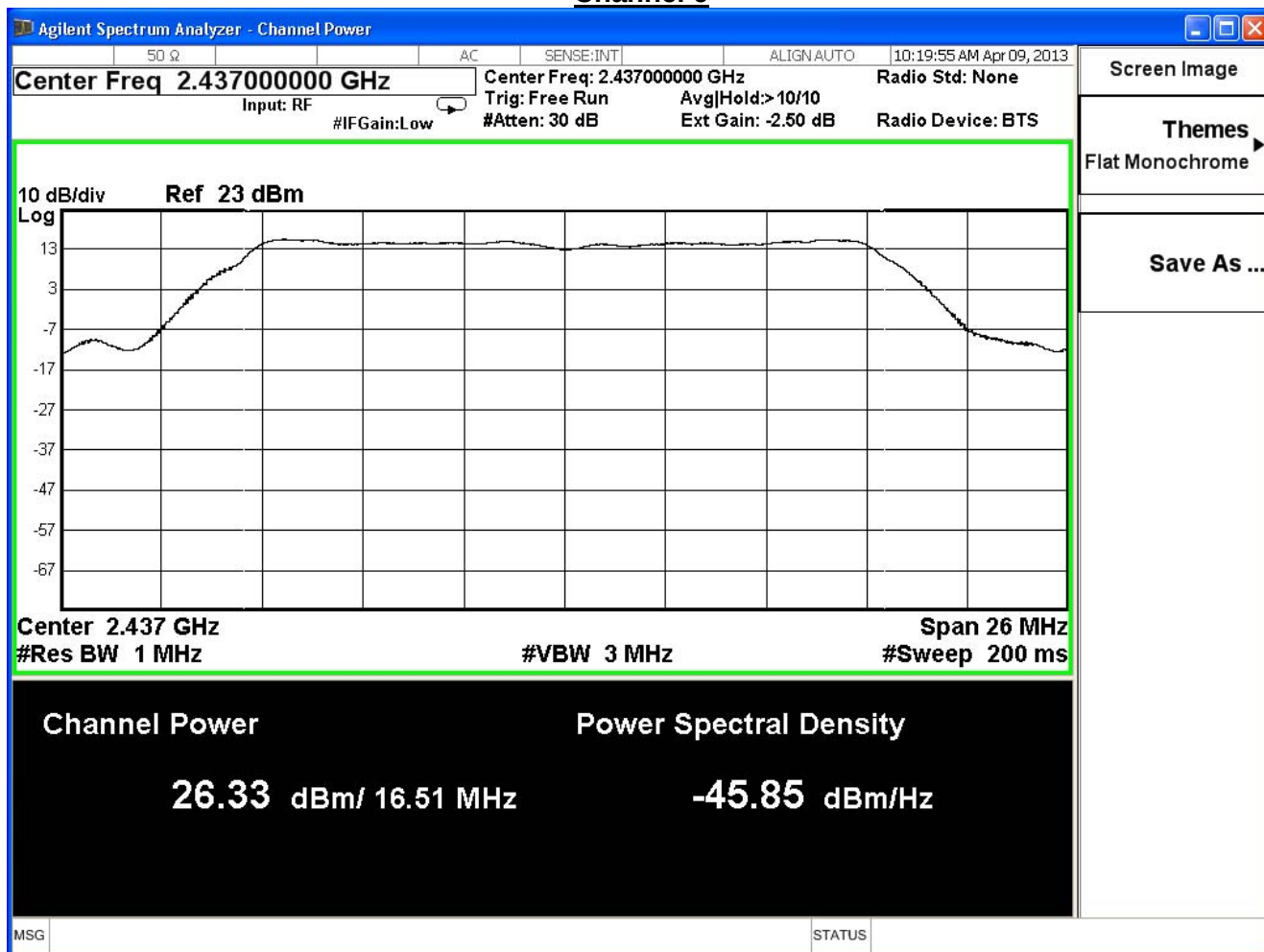
Peak Power Output Value(dBm)									
Channel No.	Frequency (MHz)	Data Rate (Mbps)							Required Limit
		6	12	18	24	36	48	54	
1	2412	20.88	--	--	-	--	--	-	1 Watt=30dBm
6	2437	26.33	26.32	26.31	26.30	26.28	26.29	26.27	1 Watt=30dBm
11	2462	19.75	--	--	-	--	--	-	1 Watt=30dBm

Note: Measure Level =Reading value + cable loss

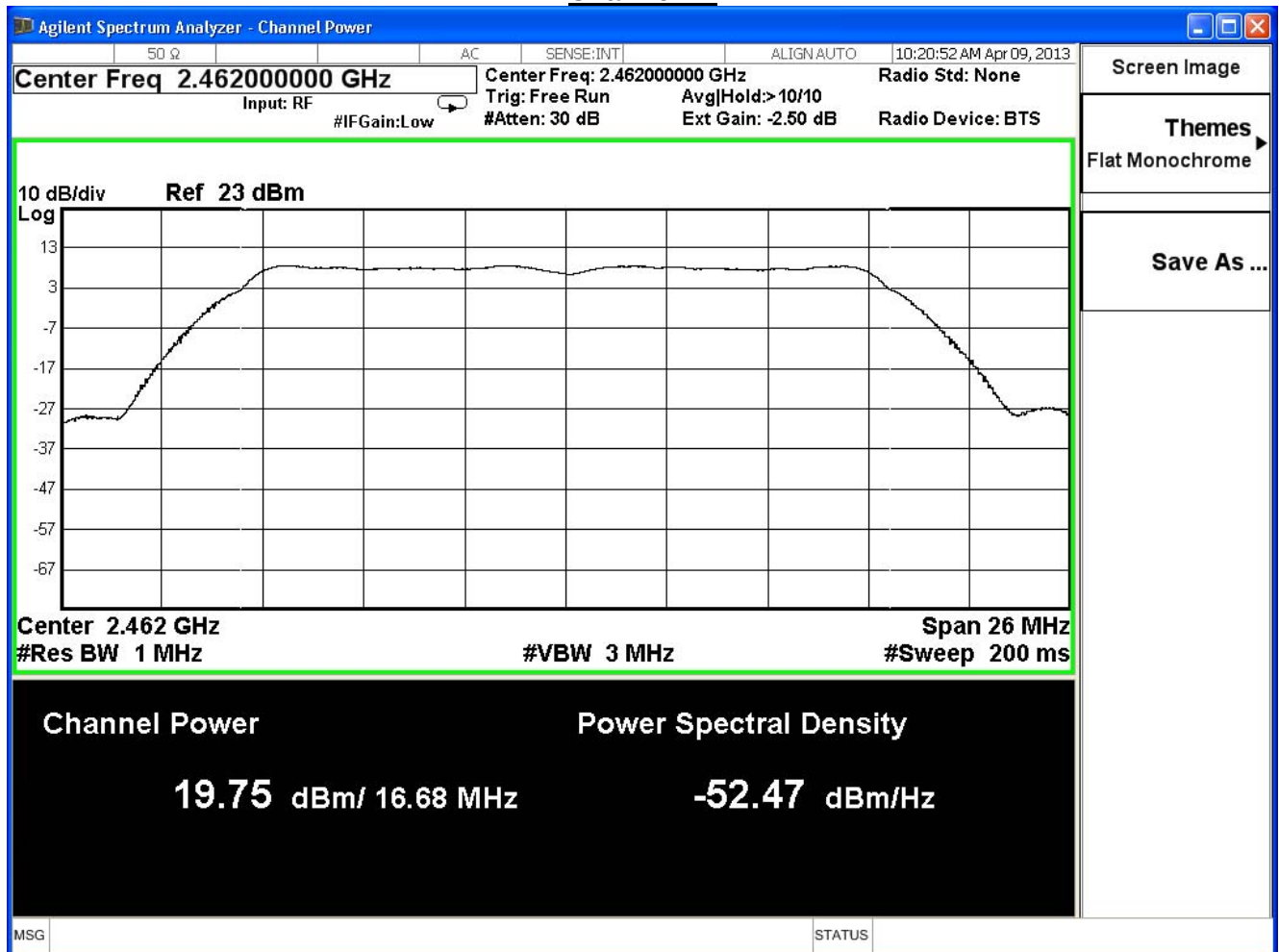
Channel 1



Channel 6



Channel 11



Product	Wireless-N300 Cloud Router		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit (DSA-12PFA-09)		
Date of Test	2013/04/09	Test Site	SR7

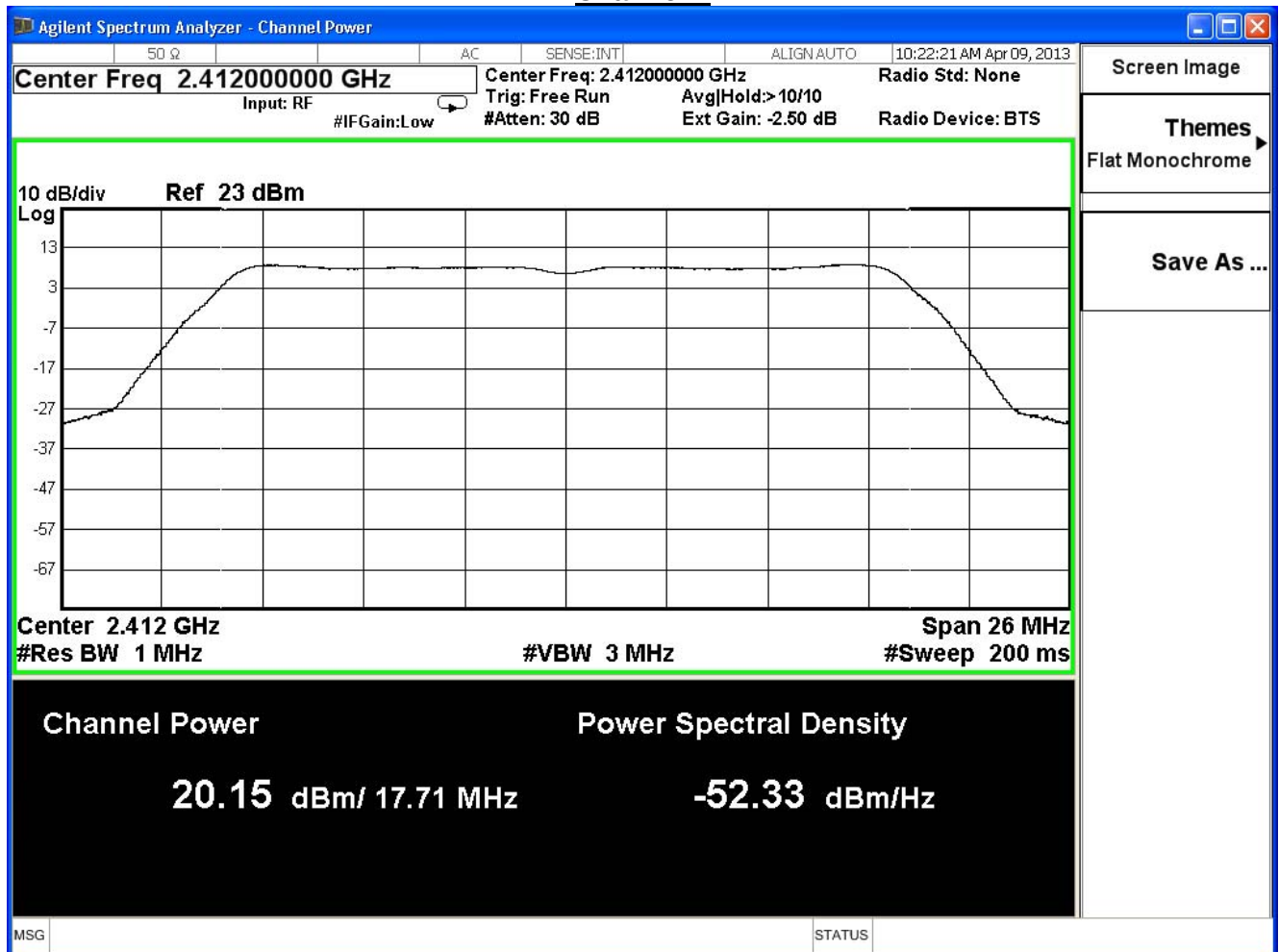
IEEE 802.11n 20MHz (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	20.15	30	Pass
6	2437	26.64	30	Pass
11	2462	19.87	30	Pass

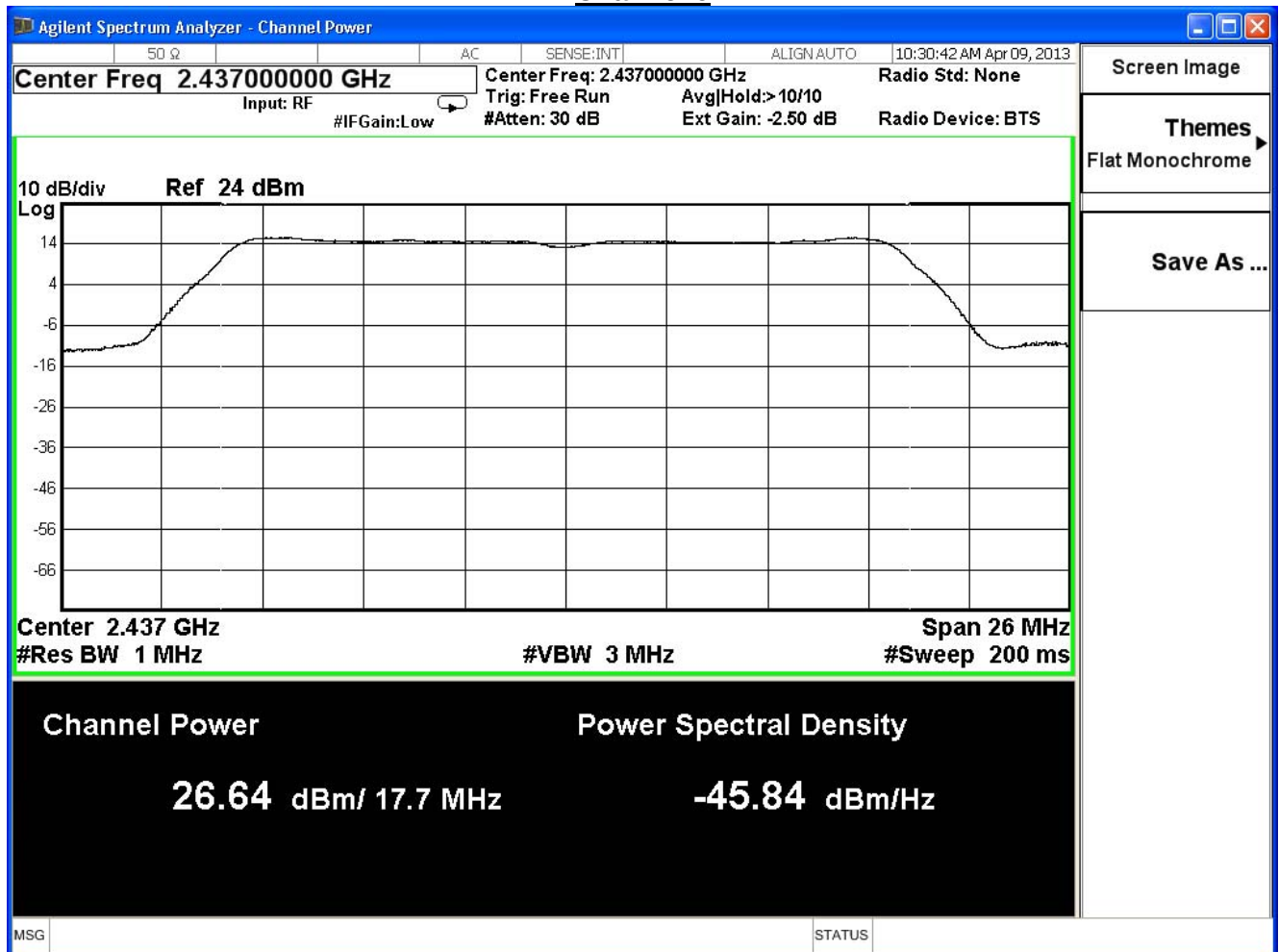
The worst emission of data rate is 19.5 Mbps.

Peak Power Output (dBm)										
MCS Index		16	17	18	19	20	21	22	23	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		19.5	39	58.5	78	117	156	175.5	195	
1	2412	20.15	--	--	-	--	--	-	--	30dBm
6	2437	26.64	26.63	26.62	26.61	26.60	26.59	26.58	26.27	30dBm
11	2462	19.87	--	--	-	--	--	-	--	30dBm

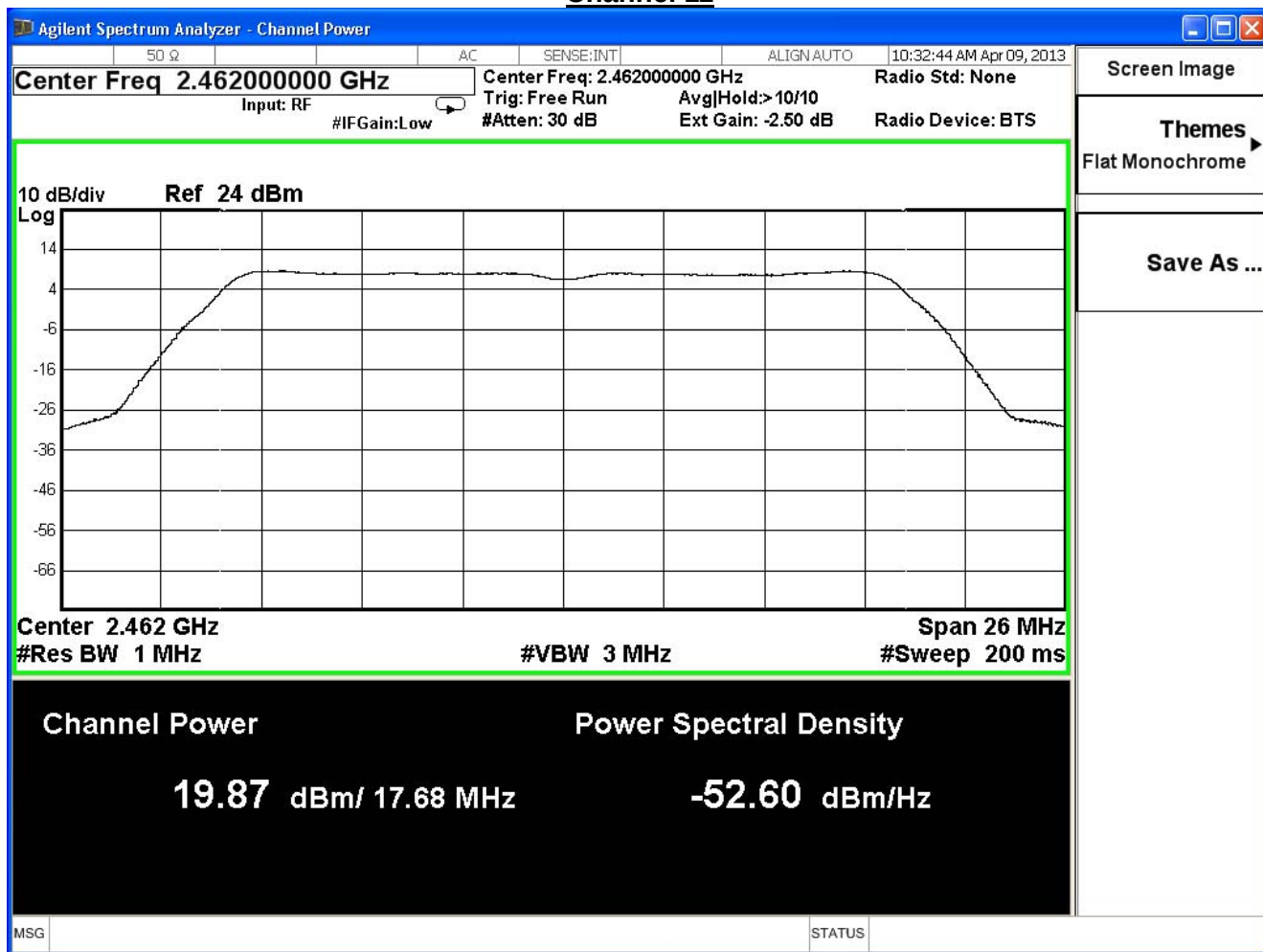
Channel 1



Channel 6



Channel 11



Product	Wireless-N300 Cloud Router		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit (DSA-12PFA-09)		
Date of Test	2013/04/09	Test Site	SR7

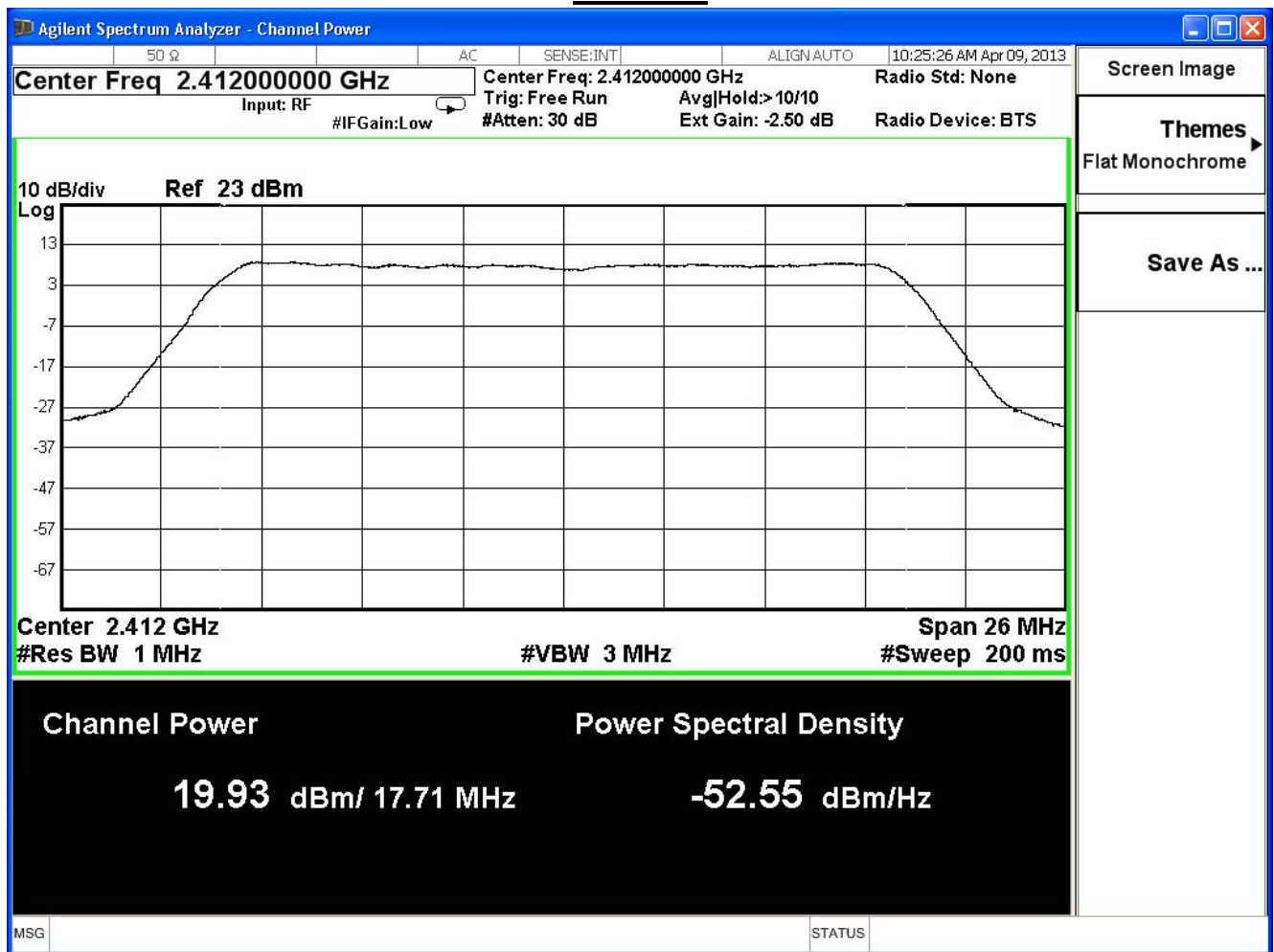
IEEE 802.11n 20MHz (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	19.93	30	Pass
6	2437	26.62	30	Pass
11	2462	19.54	30	Pass

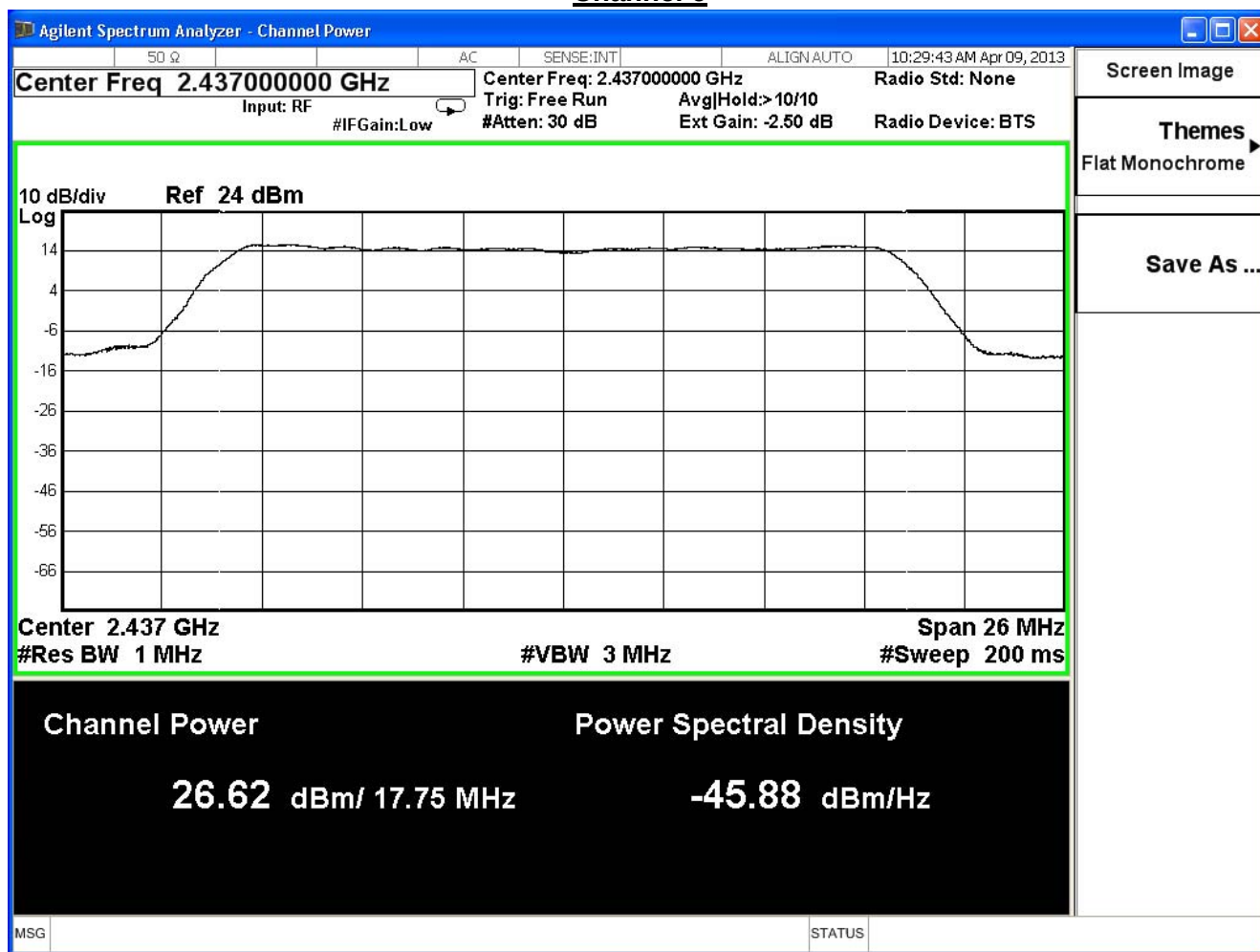
The worst emission of data rate is 19.5 Mbps.

Peak Power Output (dBm)										
MCS Index		16	17	18	19	20	21	22	23	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		19.5	39	58.5	78	117	156	175.5	195	
1	2412	19.93	--	--	-	--	--	-	--	30dBm
6	2437	26.62	26.61	26.60	26.59	26.58	26.57	26.56	26.55	30dBm
11	2462	19.54	--	--	-	--	--	-	--	30dBm

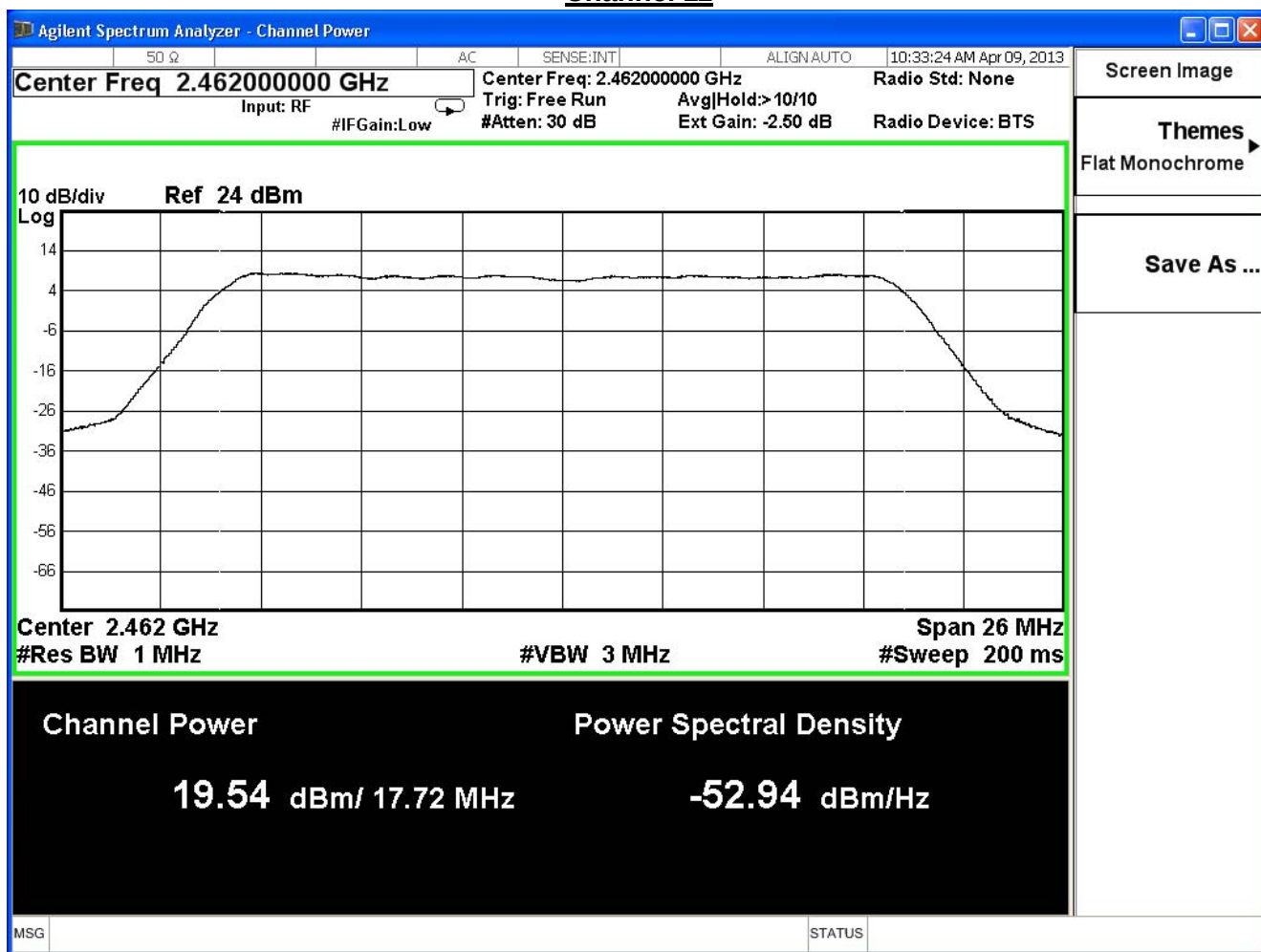
Channel 1



Channel 6



Channel 11



Product	Wireless-N300 Cloud Router		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit (DSA-12PFA-09)		
Date of Test	2013/04/09	Test Site	SR7

IEEE 802.11n 20MHz (ANT 0+1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	23.07	30	Pass
6	2437	29.65	30	Pass
11	2462	22.74	30	Pass

Product	Wireless-N300 Cloud Router		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit (DSA-12PFA-09)		
Date of Test	2013/04/09	Test Site	SR7

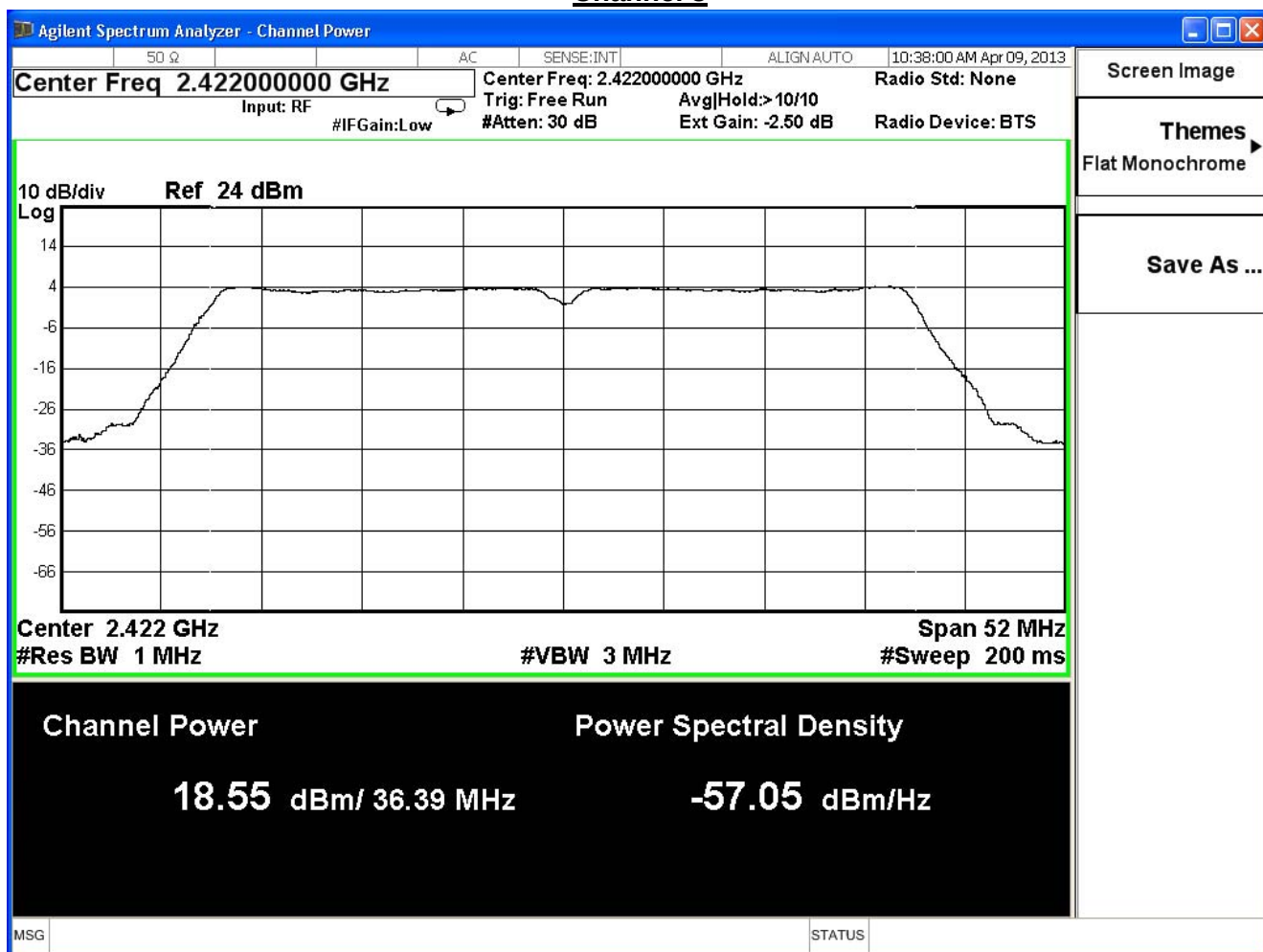
IEEE802.11n 40MHz (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	18.55	30	Pass
6	2437	26.71	30	Pass
9	2452	19.72	30	Pass

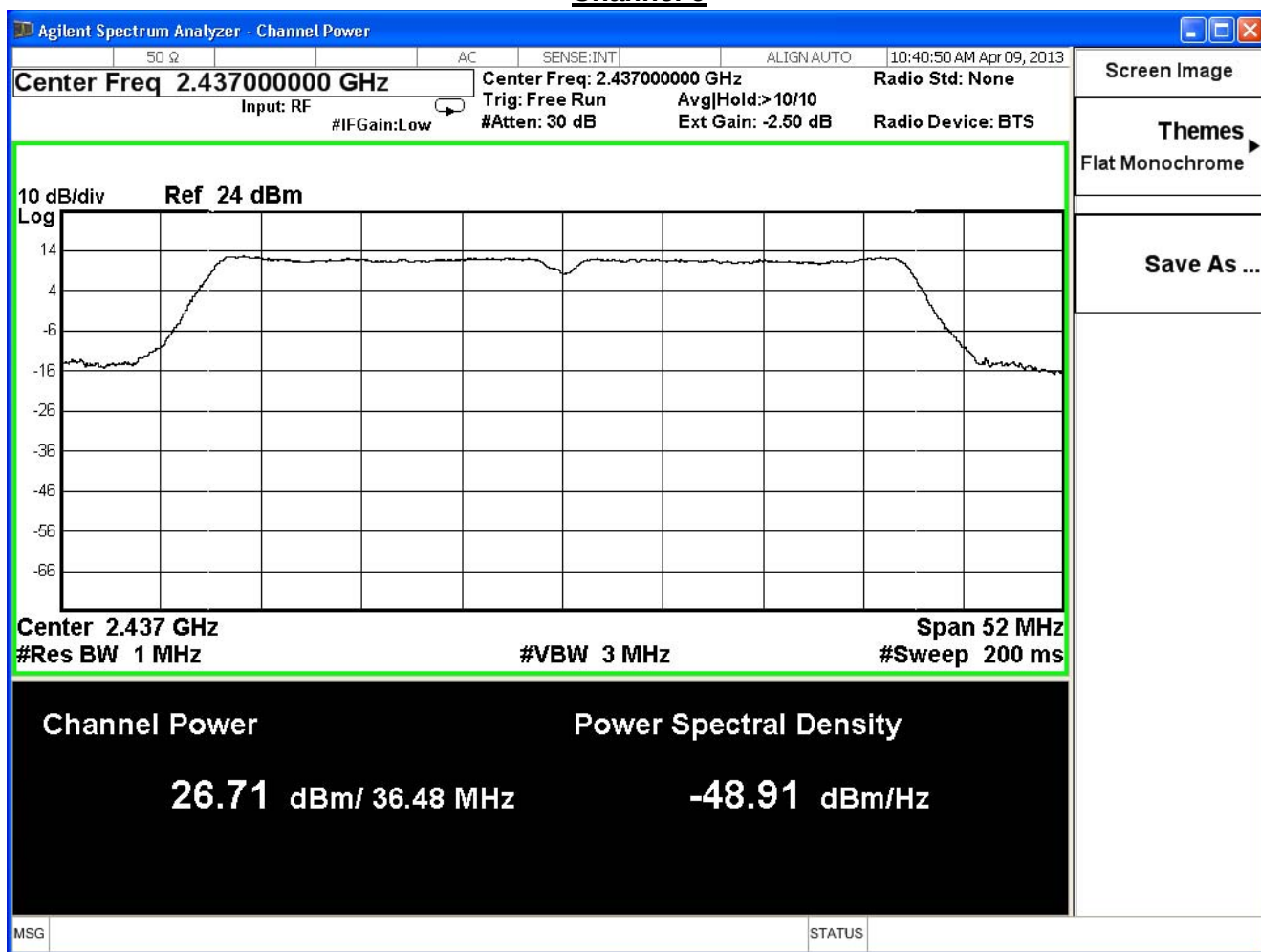
The worst emission of data rate is 40.5Mbps

Peak Power Output (dBm)										
MCS Index		16	17	18	19	20	21	22	23	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		40.5	81.0	121.5	162.0	243.0	324.0	364.5	405.0	
3	2422	18.55	--	--	-	--	--	-	--	30dBm
6	2437	26.71	26.70	26.59	26.58	26.57	26.54	26.55	26.53	30dBm
9	2452	19.72	--	--	-	--	--	-	--	30dBm

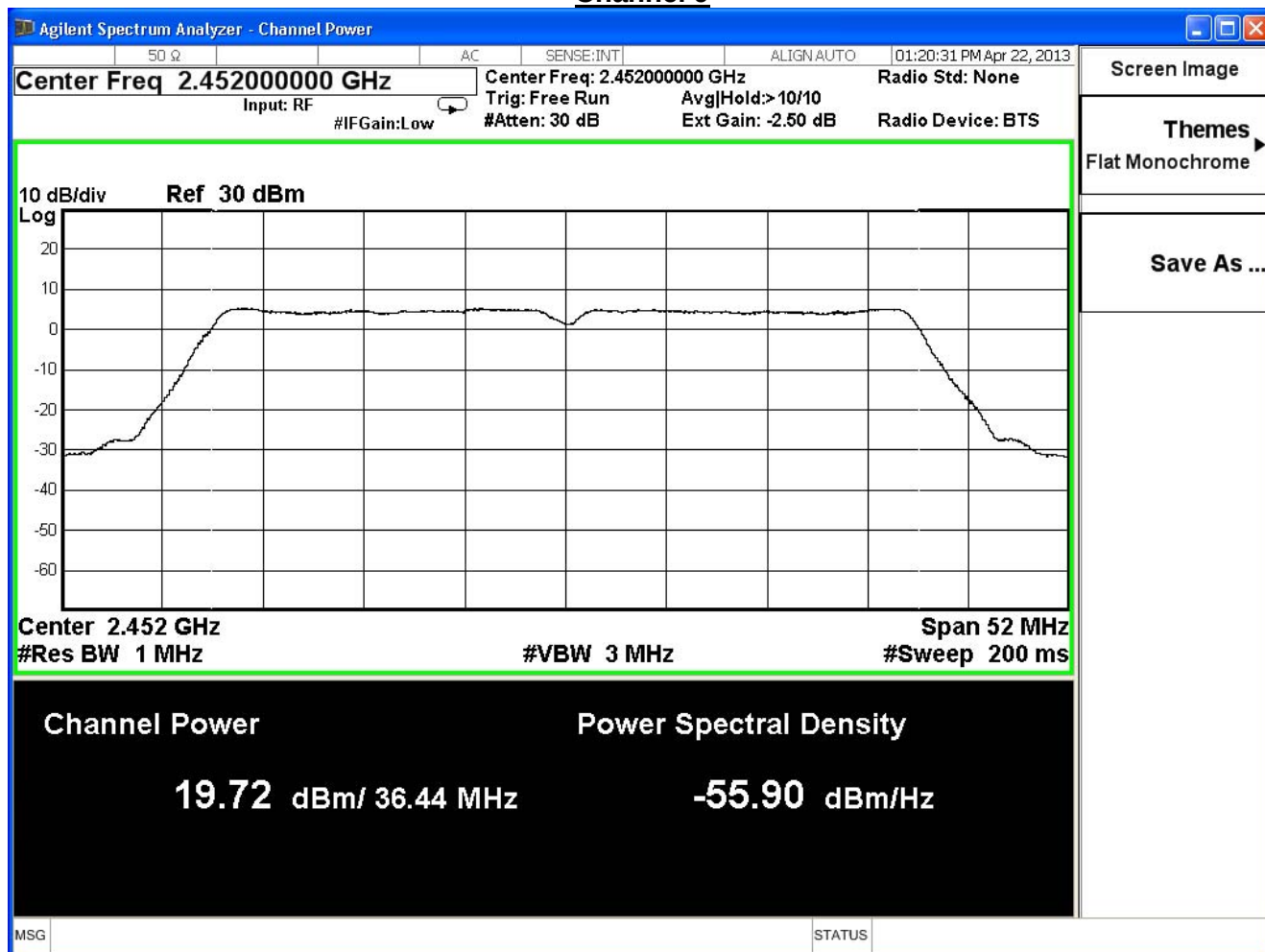
Channel 3



Channel 6



Channel 9



Product	Wireless-N300 Cloud Router		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit (DSA-12PFA-09)		
Date of Test	2012/10/22	Test Site	SR7

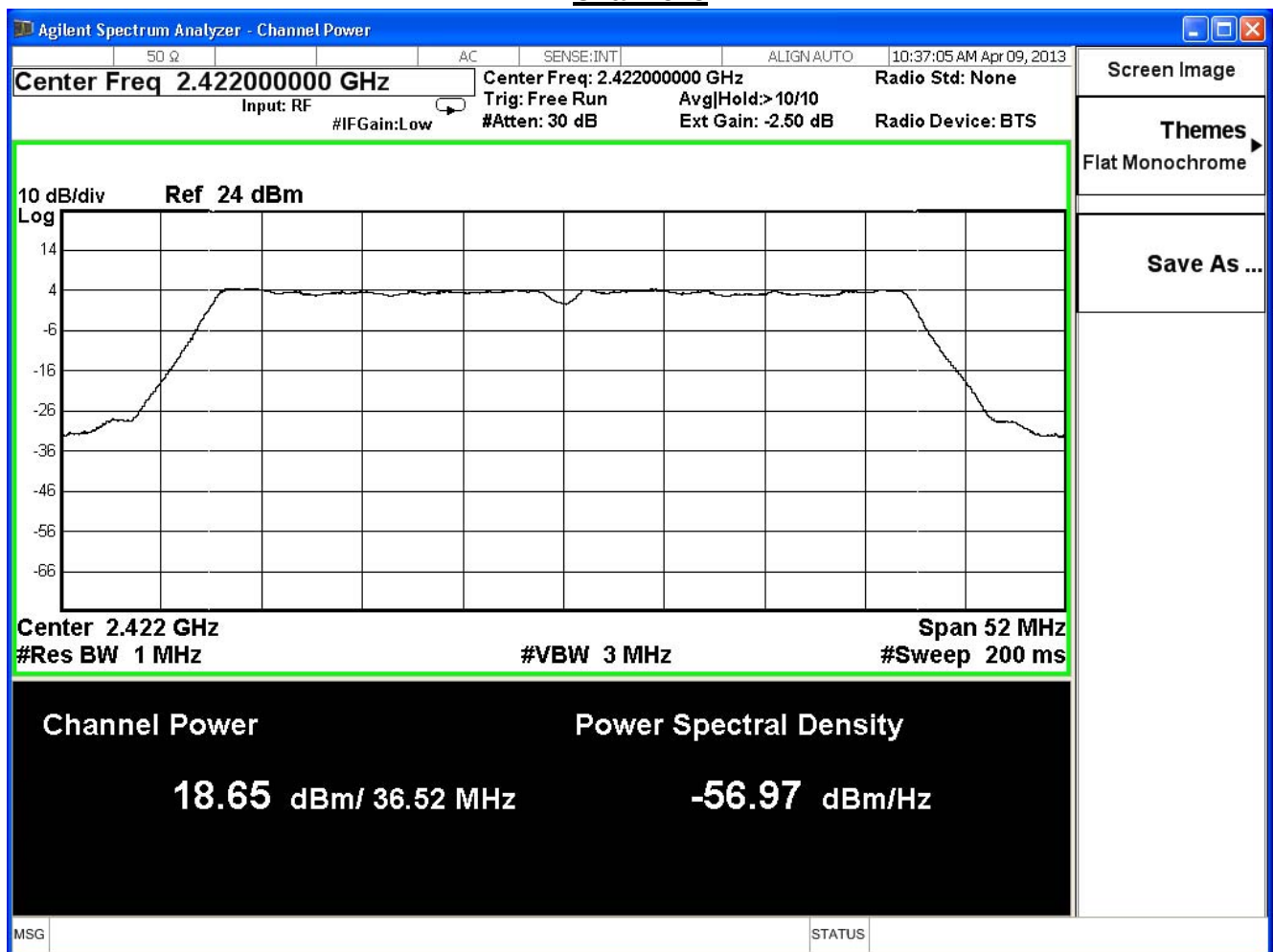
IEEE802.11n 40MHz (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	18.65	30	Pass
6	2437	25.76	30	Pass
9	2452	18.77	30	Pass

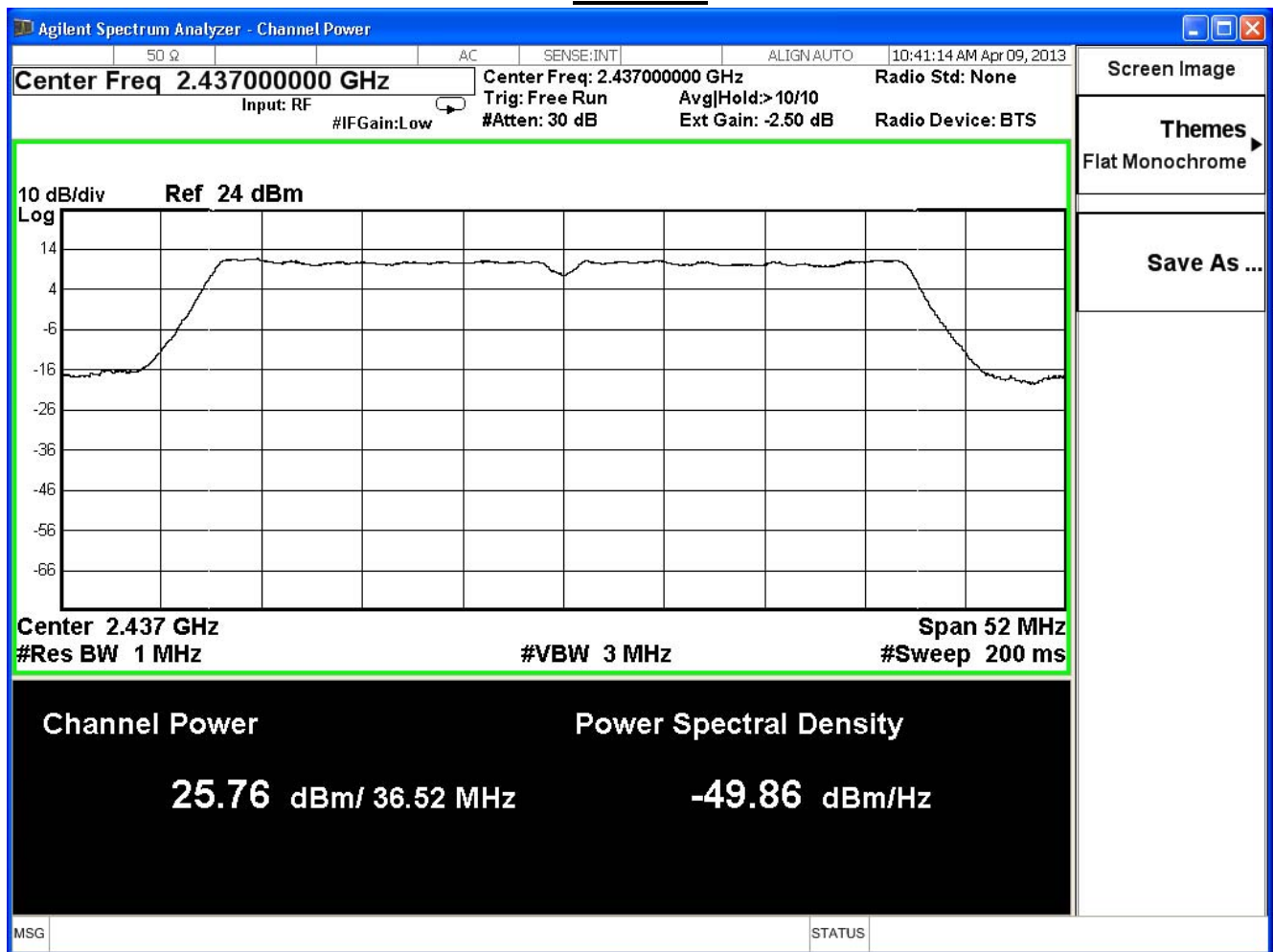
The worst emission of data rate is 40.5Mbps

Peak Power Output (dBm)										
MCS Index		16	17	18	19	20	21	22	23	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		40.5	81.0	121.5	162.0	243.0	324.0	364.5	405.0	
3	2422	18.65	--	--	-	--	--	-	--	30dBm
6	2437	25.76	25.75	25.74	25.73	25.72	25.71	25.70	25.69	30dBm
9	2452	18.77	--	--	-	--	--	-	--	30dBm

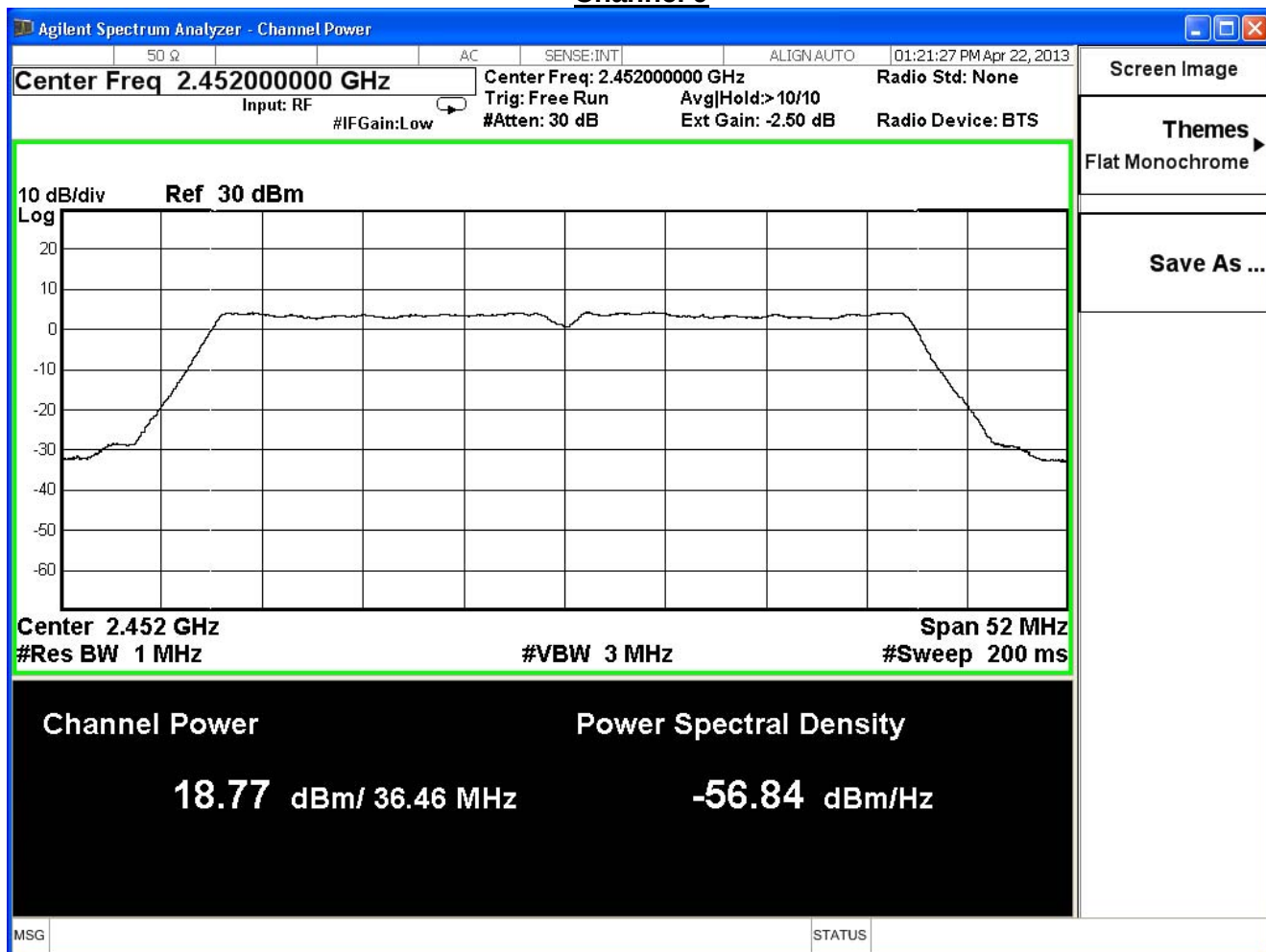
Channel 3



Channel 6



Channel 9



Product	Wireless-N300 Cloud Router		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit (DSA-12PFA-09)		
Date of Test	2013/04/09	Test Site	SR7

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

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	21.64	30	Pass
6	2437	29.28	30	Pass
9	2452	22.28	30	Pass

4. Radiated Emission

4.1. Test Equipment

The following test equipments are used during the test:

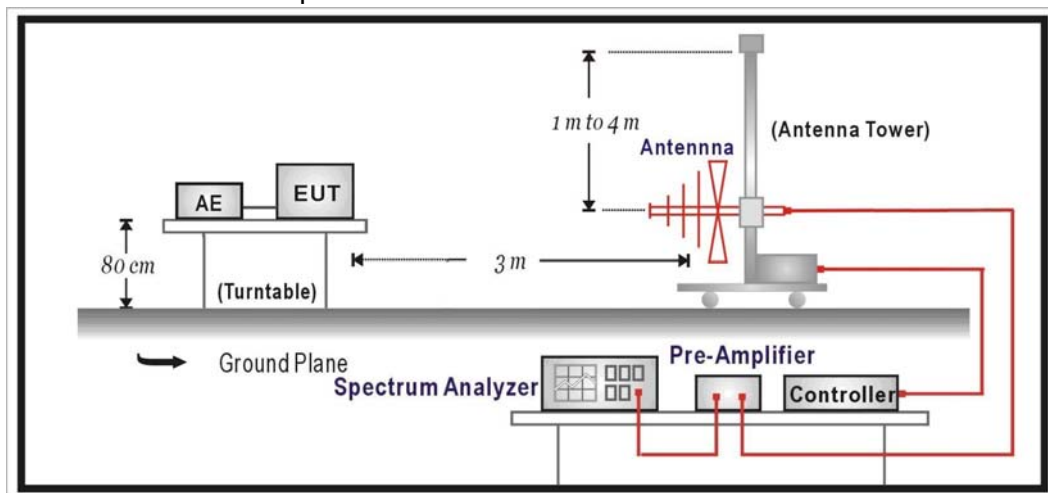
Radiated Emission / CB1

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

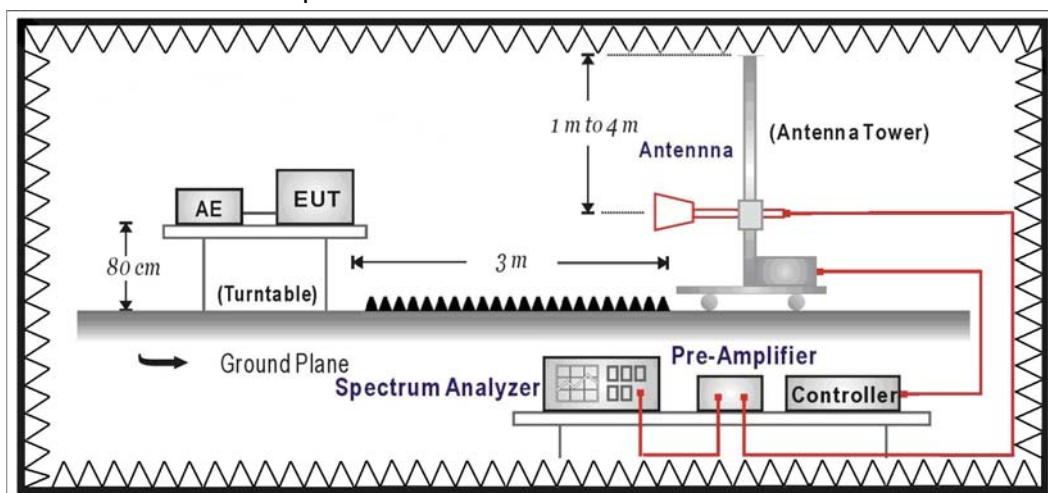
Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

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	dBuV/m	dBuV/m
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

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

4.4. Test Procedure

The EUT was setup according to ANSI C63.4: 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

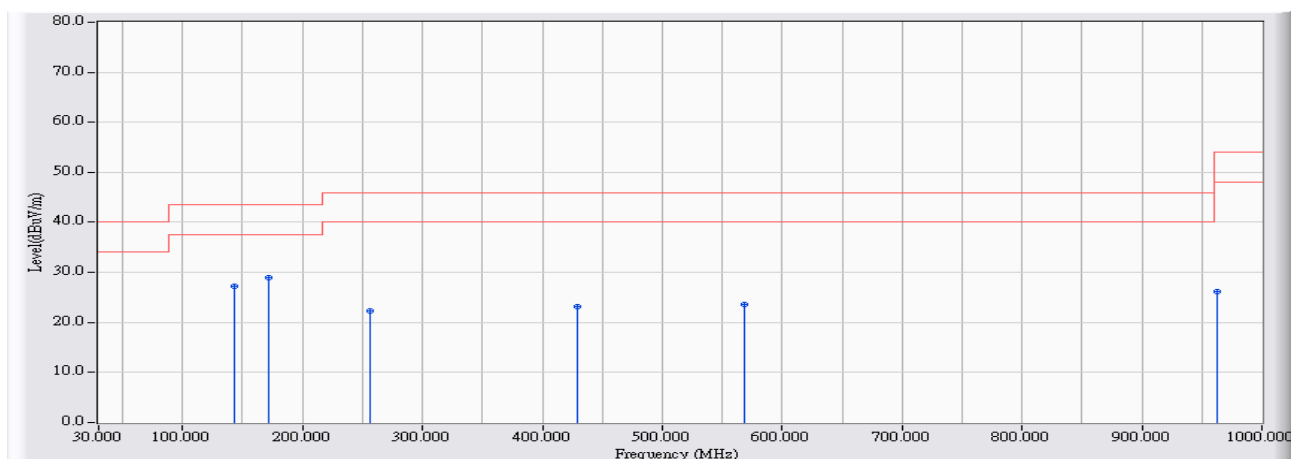
30MHz~1GHz as $\pm 3.43\text{dB}$

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

4.7. Test Result

30MHz-1GHz Spurious

Site : CB1	Time : 2013/03/11 - 15:19
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : Mode 1: Transmit (DSA-12PFA-09) 802.11b 2437MHz

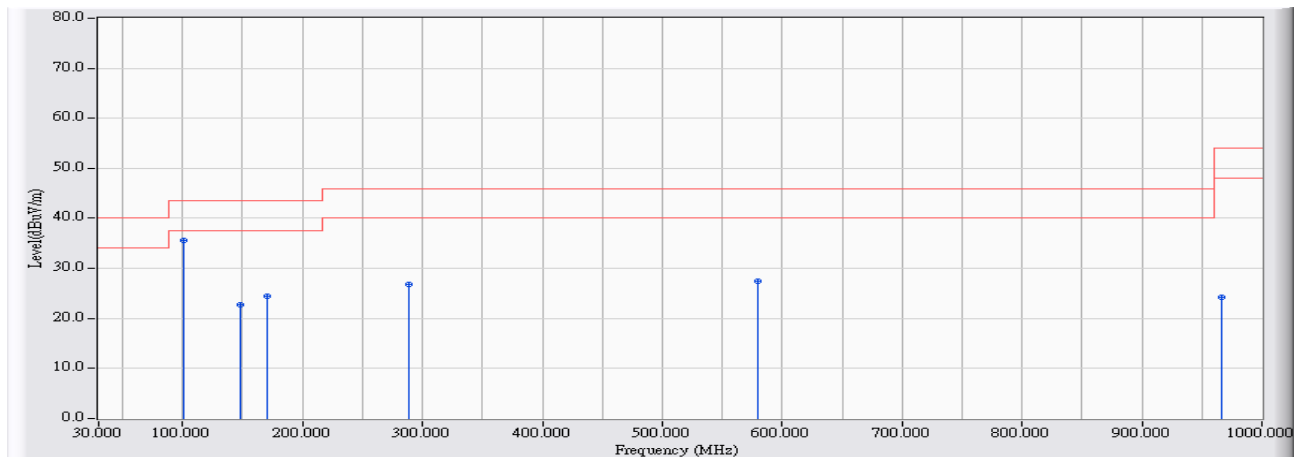


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	143.167	-12.713	39.864	27.151	-16.349	43.500	QUASIPeAK
2	* 172.267	-14.161	43.195	29.034	-14.466	43.500	QUASIPeAK
3	256.333	-10.795	33.197	22.402	-23.598	46.000	QUASIPeAK
4	429.317	-6.750	29.896	23.146	-22.854	46.000	QUASIPeAK
5	568.350	-4.935	28.529	23.594	-22.406	46.000	QUASIPeAK
6	962.817	-1.734	27.841	26.108	-27.892	54.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2013/03/11 - 15:25
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : Mode 1: Transmit (DSA-12PFA-09) 802.11b 2437MHz

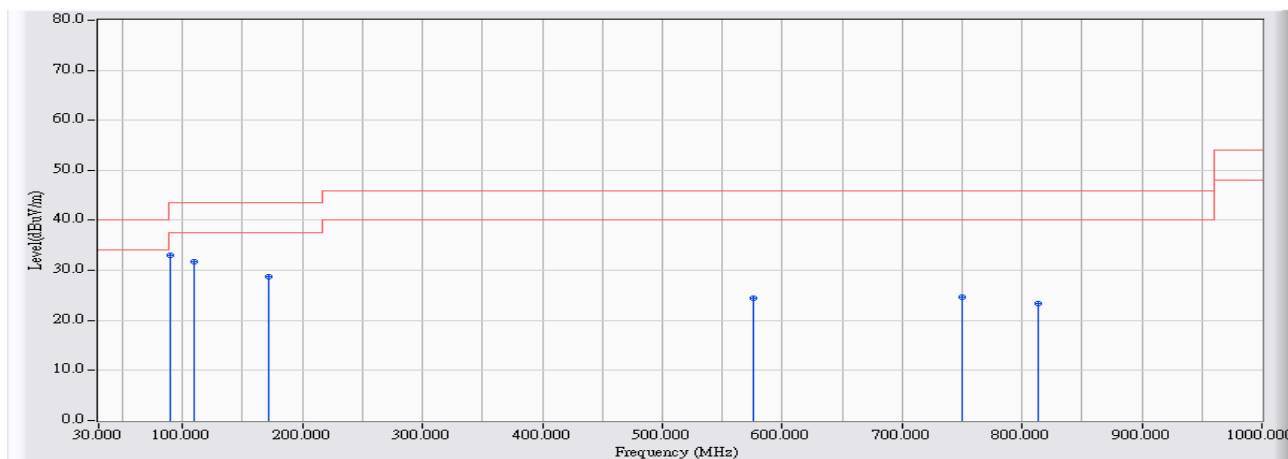


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	101.133	-12.703	48.220	35.517	-7.983	43.500	QUASIPeAK
2		148.017	-12.964	35.623	22.659	-20.841	43.500	QUASIPeAK
3		170.650	-14.086	38.570	24.484	-19.016	43.500	QUASIPeAK
4		288.667	-10.153	36.977	26.824	-19.176	46.000	QUASIPeAK
5		579.667	-4.917	32.390	27.473	-18.527	46.000	QUASIPeAK
6		966.050	-1.696	25.984	24.288	-29.712	54.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2013/03/11 - 15:31
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : Mode 1: Transmit (DSA-12PFA-09) 802.11g 2437MHz

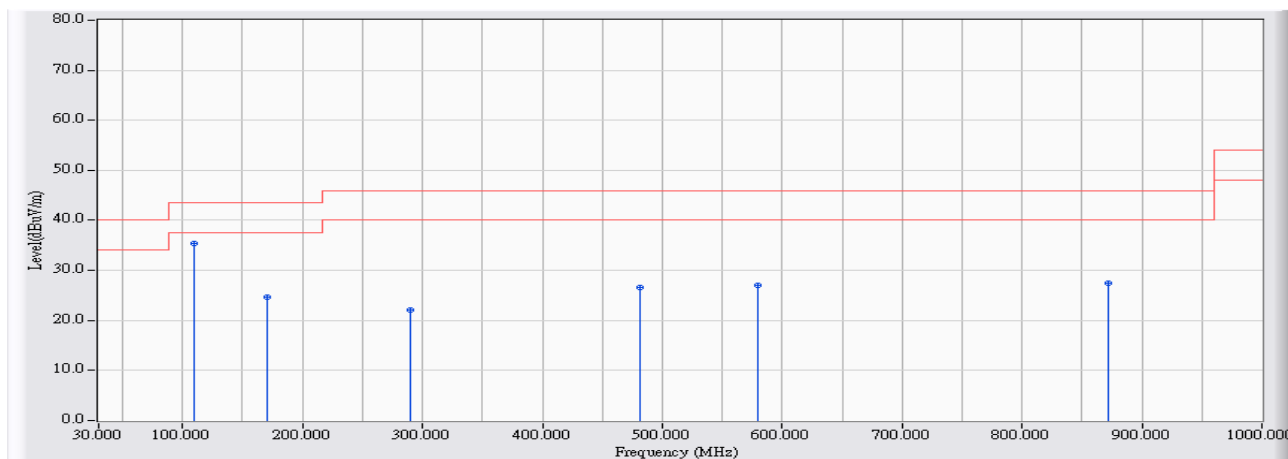


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	89.817	-15.110	48.182	33.072	-10.428	43.500	QUASIPeAK
2		109.217	-12.326	44.016	31.690	-11.810	43.500	QUASIPeAK
3		172.267	-14.161	42.929	28.768	-14.732	43.500	QUASIPeAK
4		576.433	-4.921	29.352	24.430	-21.570	46.000	QUASIPeAK
5		749.417	-3.597	28.262	24.665	-21.335	46.000	QUASIPeAK
6		814.083	-2.909	26.198	23.289	-22.711	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2013/03/11 - 15:36
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : Mode 1: Transmit (DSA-12PFA-09) 802.11g 2437MHz

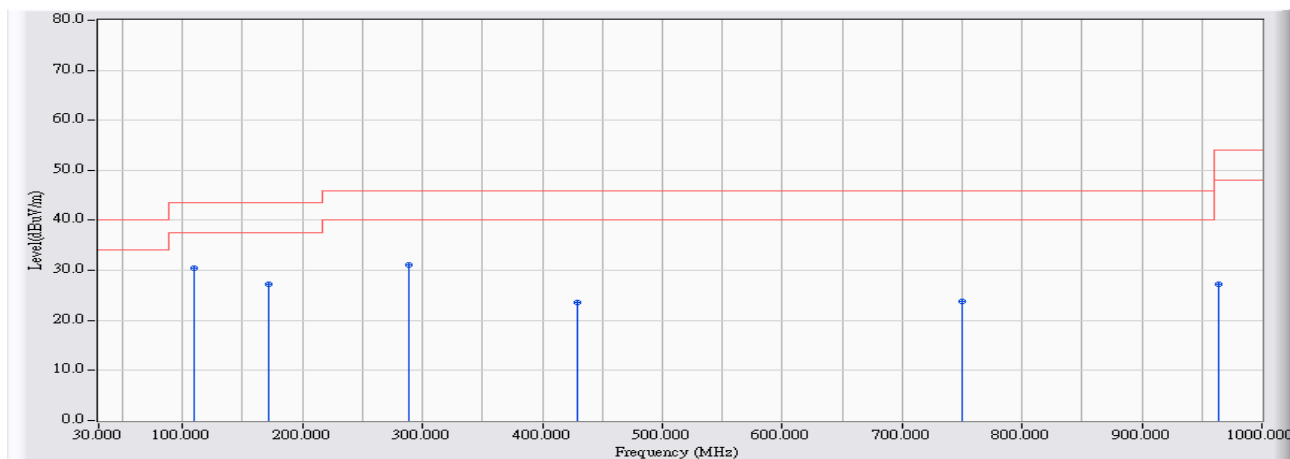


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	109.217	-12.326	47.815	35.489	-8.011	43.500	QUASIPeAK
2		170.650	-14.086	38.719	24.633	-18.867	43.500	QUASIPeAK
3		290.283	-10.121	32.314	22.194	-23.806	46.000	QUASIPeAK
4		481.050	-5.546	32.139	26.594	-19.406	46.000	QUASIPeAK
5		579.667	-4.917	31.893	26.976	-19.024	46.000	QUASIPeAK
6		872.283	-2.602	29.971	27.369	-18.631	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2013/03/11 - 15:42
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : Mode 1: Transmit (DSA-12PFA-09) 802.11n20MHz 2437MHz

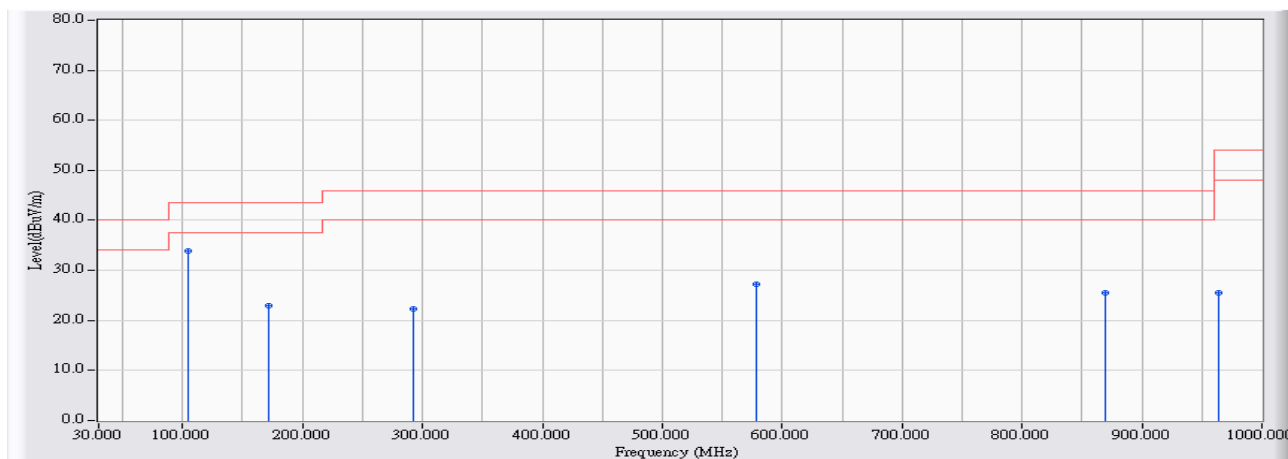


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	109.217	-12.326	42.854	30.528	-12.972	43.500	QUASIPeAK
2		172.267	-14.161	41.471	27.310	-16.190	43.500	QUASIPeAK
3		288.667	-10.153	41.223	31.070	-14.930	46.000	QUASIPeAK
4		429.317	-6.750	30.282	23.532	-22.468	46.000	QUASIPeAK
5		749.417	-3.597	27.459	23.862	-22.138	46.000	QUASIPeAK
6		964.433	-1.714	28.862	27.148	-26.852	54.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2013/03/11 - 15:47
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : Mode 1: Transmit (DSA-12PFA-09) 802.11n20MHz 2437MHz

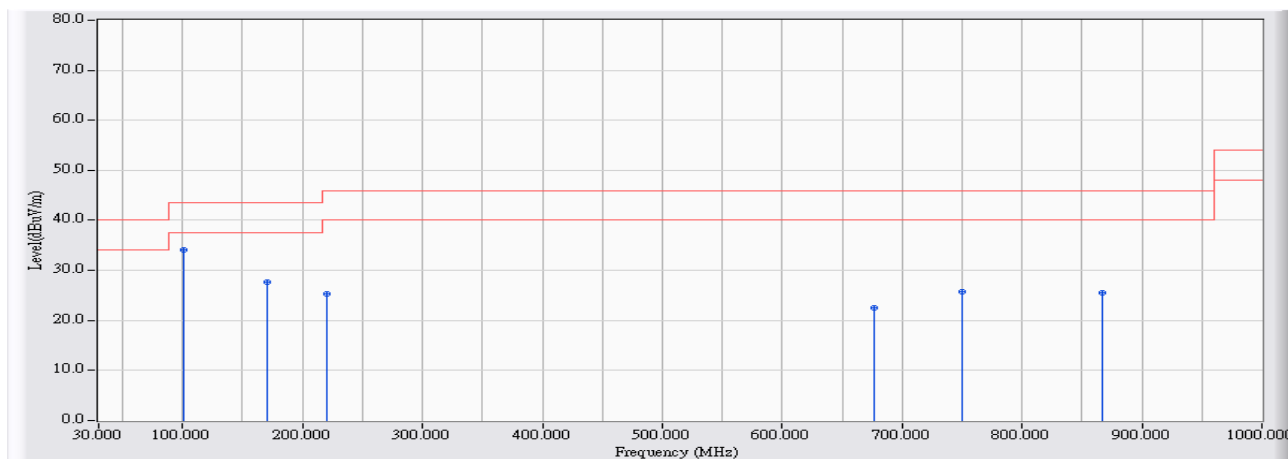


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	104.367	-12.552	46.539	33.987	-9.513	43.500	QUASIPeAK
2		172.267	-14.161	37.100	22.939	-20.561	43.500	QUASIPeAK
3		291.900	-10.088	32.440	22.352	-23.648	46.000	QUASIPeAK
4		578.050	-4.919	32.251	27.332	-18.668	46.000	QUASIPeAK
5		869.050	-2.620	28.123	25.504	-20.496	46.000	QUASIPeAK
6		964.433	-1.714	27.272	25.558	-28.442	54.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2013/03/11 - 15:53
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : Mode 1: Transmit (DSA-12PFA-09) 802.11n40MHz 2437MHz

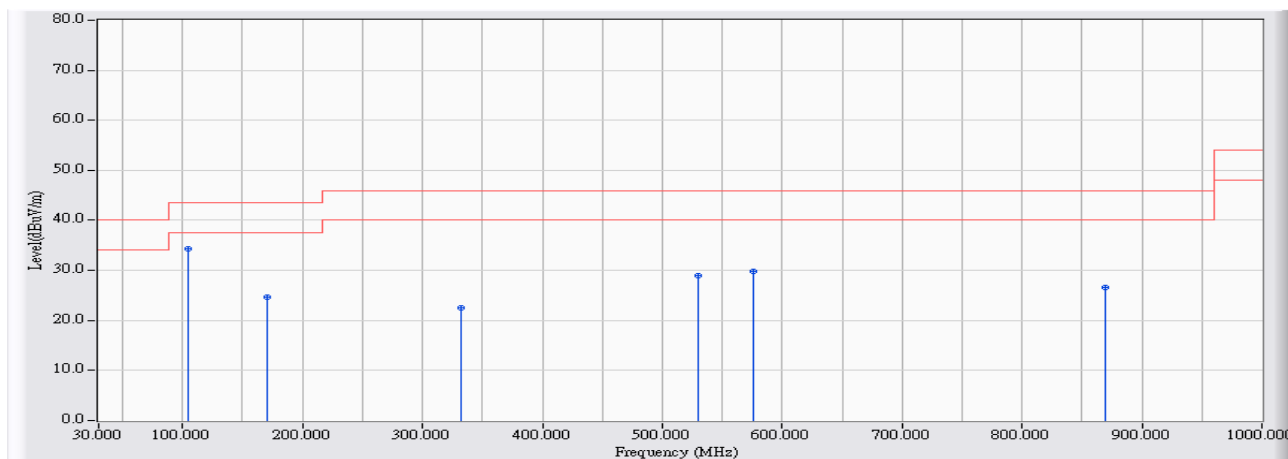


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	101.133	-12.703	46.777	34.074	-9.426	43.500	QUASIPeAK
2		170.650	-14.086	41.802	27.716	-15.784	43.500	QUASIPeAK
3		220.767	-13.112	38.330	25.218	-20.782	46.000	QUASIPeAK
4		676.667	-4.379	26.931	22.552	-23.448	46.000	QUASIPeAK
5		749.417	-3.597	29.391	25.794	-20.206	46.000	QUASIPeAK
6		867.433	-2.627	28.243	25.616	-20.384	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2013/03/11 - 15:59
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : Mode 1: Transmit (DSA-12PFA-09) 802.11n40MHz 2437MHz

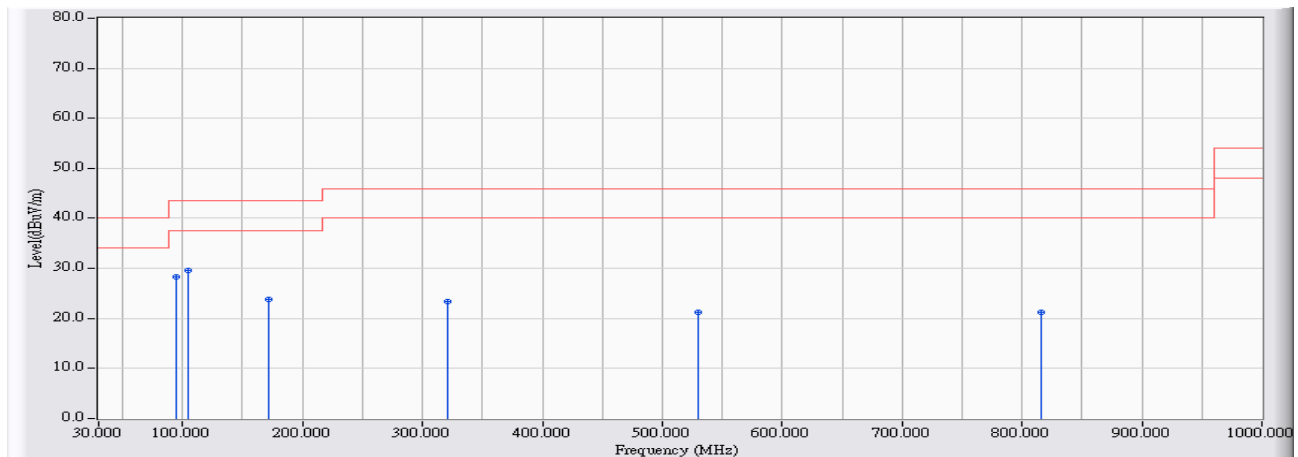


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	104.367	-12.552	46.941	34.389	-9.111	43.500	QUASIPeAK
2		170.650	-14.086	38.819	24.733	-18.767	43.500	QUASIPeAK
3		332.317	-9.131	31.654	22.523	-23.477	46.000	QUASIPeAK
4		529.550	-5.016	33.872	28.856	-17.144	46.000	QUASIPeAK
5		576.433	-4.921	34.720	29.798	-16.202	46.000	QUASIPeAK
6		869.050	-2.620	29.162	26.543	-19.457	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2013/03/11 – 16:08
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : Mode 2: Transmit (PSA12A-120) 802.11b 2437MHz

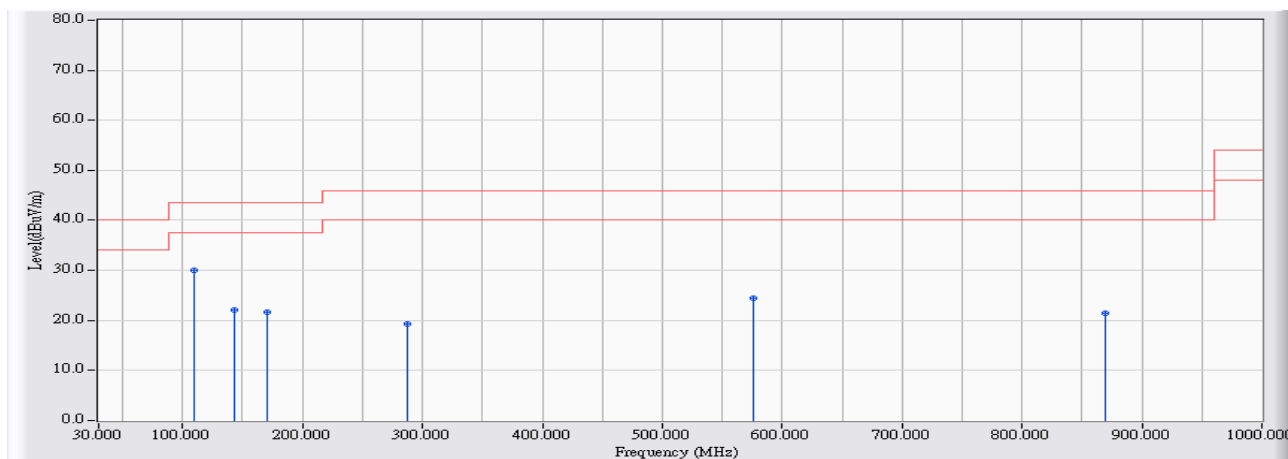


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		94.667	-14.006	42.229	28.223	-15.277	43.500	QUASIPeAK
2	*	104.367	-12.552	42.146	29.594	-13.906	43.500	QUASIPeAK
3		172.267	-14.161	37.962	23.801	-19.699	43.500	QUASIPeAK
4		321.000	-9.410	32.724	23.314	-22.686	46.000	QUASIPeAK
5		529.550	-5.016	26.342	21.326	-24.674	46.000	QUASIPeAK
6		815.700	-2.900	24.084	21.184	-24.816	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2013/03/11 – 16:14
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : Mode 2: Transmit (PSA12A-120) 802.11b 2437MHz

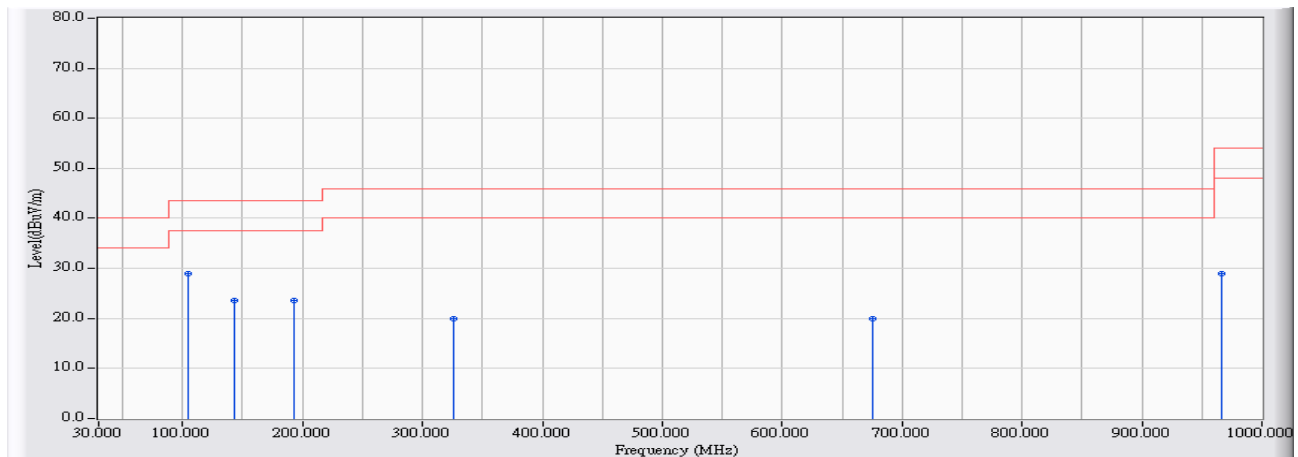


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	109.217	-12.326	42.357	30.031	-13.469	43.500	QUASIPeAK
2		143.167	-12.713	34.906	22.193	-21.307	43.500	QUASIPeAK
3		170.650	-14.086	35.654	21.568	-21.932	43.500	QUASIPeAK
4		287.050	-10.185	29.409	19.224	-26.776	46.000	QUASIPeAK
5		576.433	-4.921	29.339	24.417	-21.583	46.000	QUASIPeAK
6		869.050	-2.620	24.138	21.519	-24.481	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2013/03/11 – 16:19
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : Mode 2: Transmit (PSA12A-120) 802.11g 2437MHz

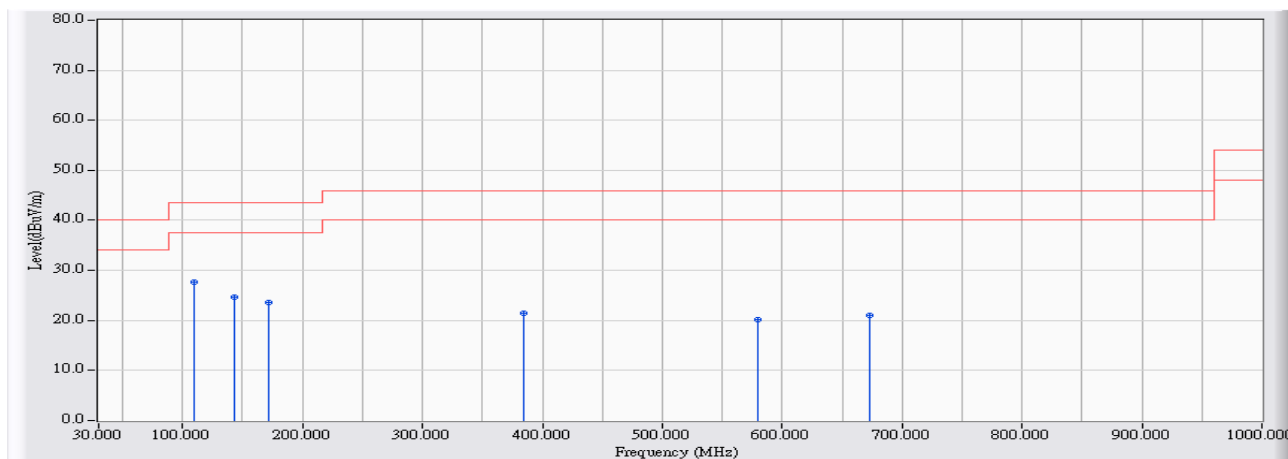


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	104.367	-12.552	41.405	28.853	-14.647	43.500	QUASIPeAK
2		143.167	-12.713	36.283	23.570	-19.930	43.500	QUASIPeAK
3		193.283	-14.618	38.179	23.561	-19.939	43.500	QUASIPeAK
4		325.850	-9.290	29.208	19.917	-26.083	46.000	QUASIPeAK
5		675.050	-4.390	24.327	19.937	-26.063	46.000	QUASIPeAK
6		966.050	-1.696	30.605	28.909	-25.091	54.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2013/03/11 – 16:25
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : Mode 2: Transmit (PSA12A-120) 802.11g 2437MHz

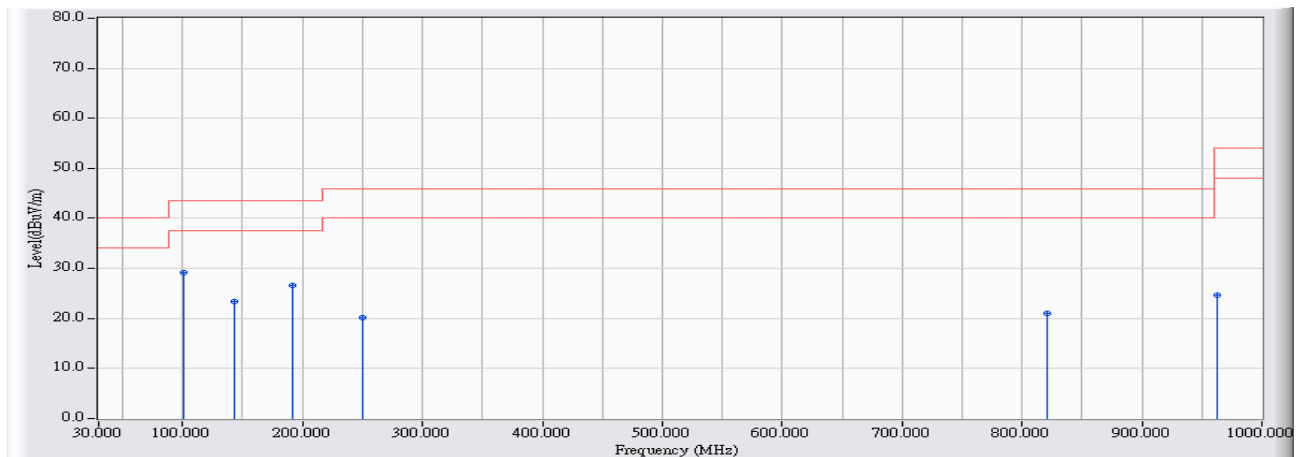


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	109.217	-12.326	39.984	27.658	-15.842	43.500	QUASIPeAK
2		143.167	-12.713	37.429	24.716	-18.784	43.500	QUASIPeAK
3		172.267	-14.161	37.696	23.535	-19.965	43.500	QUASIPeAK
4		384.050	-7.813	29.230	21.417	-24.583	46.000	QUASIPeAK
5		579.667	-4.917	24.990	20.073	-25.927	46.000	QUASIPeAK
6		673.433	-4.401	25.379	20.979	-25.021	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2013/03/11 – 16:31
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : Mode 2: Transmit (PSA12A-120) 802.11n20MHz 2437MHz

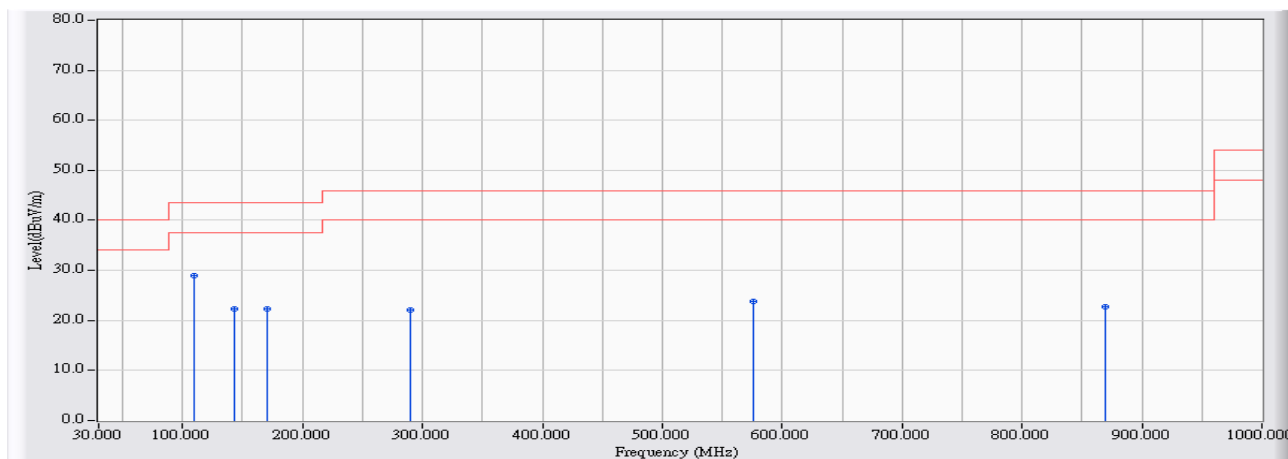


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	101.133	-12.703	41.960	29.257	-14.243	43.500	QUASIPeAK
2		143.167	-12.713	36.133	23.420	-20.080	43.500	QUASIPeAK
3		191.667	-14.606	41.237	26.631	-16.869	43.500	QUASIPeAK
4		249.867	-10.938	31.084	20.146	-25.854	46.000	QUASIPeAK
5		820.550	-2.874	23.978	21.104	-24.896	46.000	QUASIPeAK
6		962.817	-1.734	26.359	24.626	-29.374	54.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2013/03/11 – 16:36
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : Mode 2: Transmit (PSA12A-120) 802.11n20MHz 2437MHz

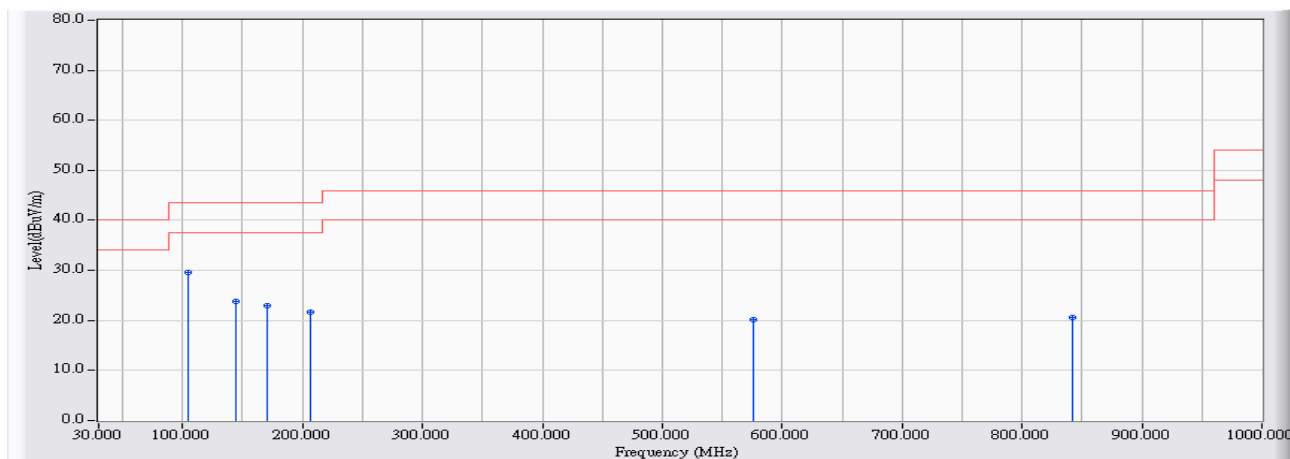


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	109.217	-12.326	41.289	28.963	-14.537	43.500	QUASIPeAK
2		143.167	-12.713	35.008	22.295	-21.205	43.500	QUASIPeAK
3		170.650	-14.086	36.378	22.292	-21.208	43.500	QUASIPeAK
4		290.283	-10.121	32.134	22.014	-23.986	46.000	QUASIPeAK
5		576.433	-4.921	28.797	23.875	-22.125	46.000	QUASIPeAK
6		869.050	-2.620	25.333	22.714	-23.286	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2013/03/11 – 16:41
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : Mode 2: Transmit (PSA12A-120) 802.11n40MHz 2437MHz

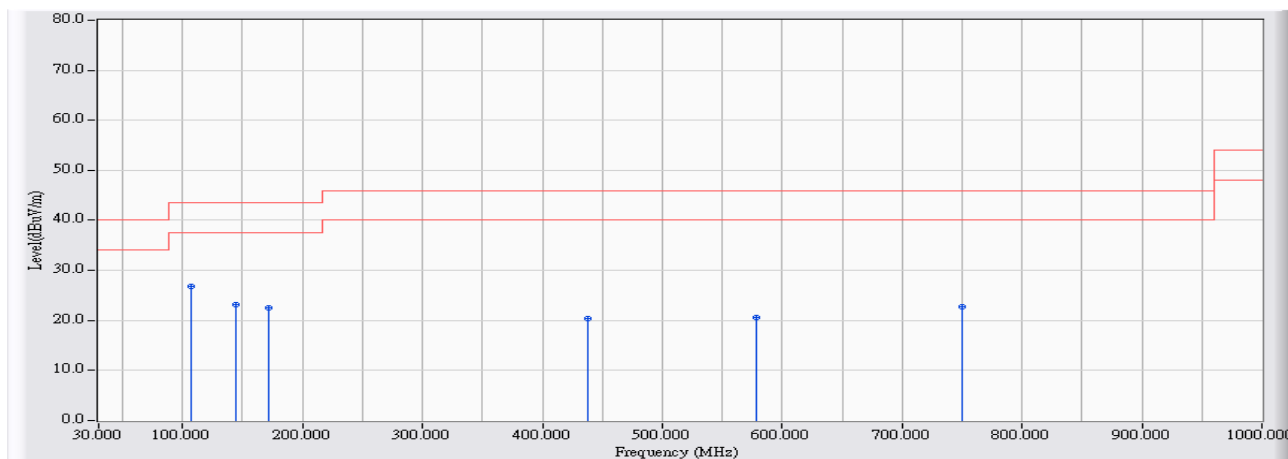


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	104.367	-12.552	42.129	29.577	-13.923	43.500	QUASIPeAK
2		144.783	-12.796	36.705	23.908	-19.592	43.500	QUASIPeAK
3		170.650	-14.086	36.931	22.845	-20.655	43.500	QUASIPeAK
4		206.217	-14.202	35.901	21.699	-21.801	43.500	QUASIPeAK
5		576.433	-4.921	25.059	20.137	-25.863	46.000	QUASIPeAK
6		841.567	-2.761	23.317	20.555	-25.445	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2013/03/11 – 16:47
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : Mode 2: Transmit (PSA12A-120) 802.11n40MHz 2437MHz



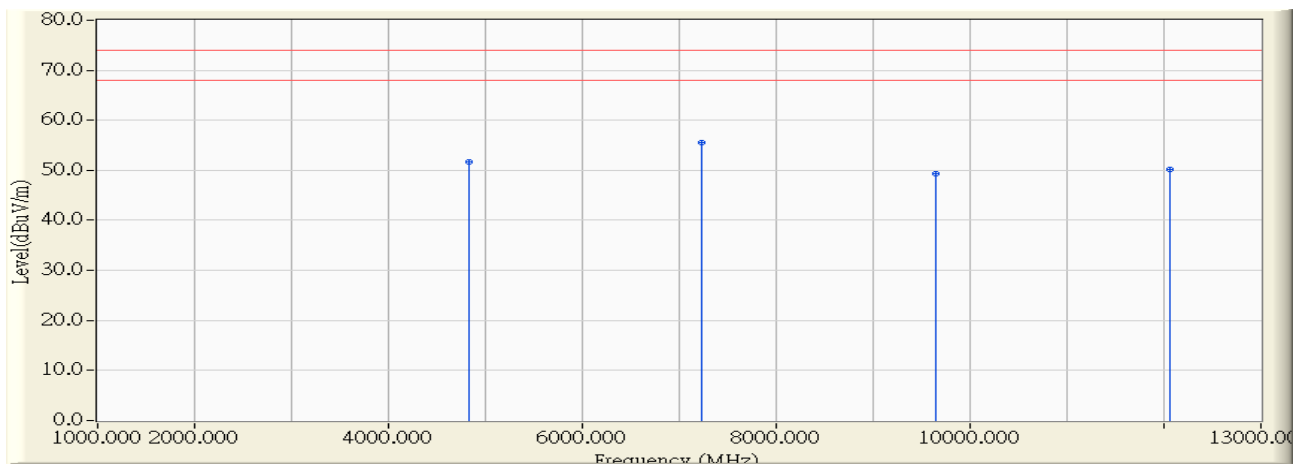
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	107.600	-12.401	39.269	26.868	-16.632	43.500	QUASIPeAK
2		144.783	-12.796	36.063	23.266	-20.234	43.500	QUASIPeAK
3		172.267	-14.161	36.588	22.427	-21.073	43.500	QUASIPeAK
4		437.400	-6.572	27.021	20.450	-25.550	46.000	QUASIPeAK
5		578.050	-4.919	25.572	20.653	-25.347	46.000	QUASIPeAK
6		749.417	-3.597	26.388	22.791	-23.209	46.000	QUASIPeAK

Note:

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

Above 1GHz Spurious

Site : CB1	Time : 2013/04/08 - 15:05
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : 802.11b 2412MHz

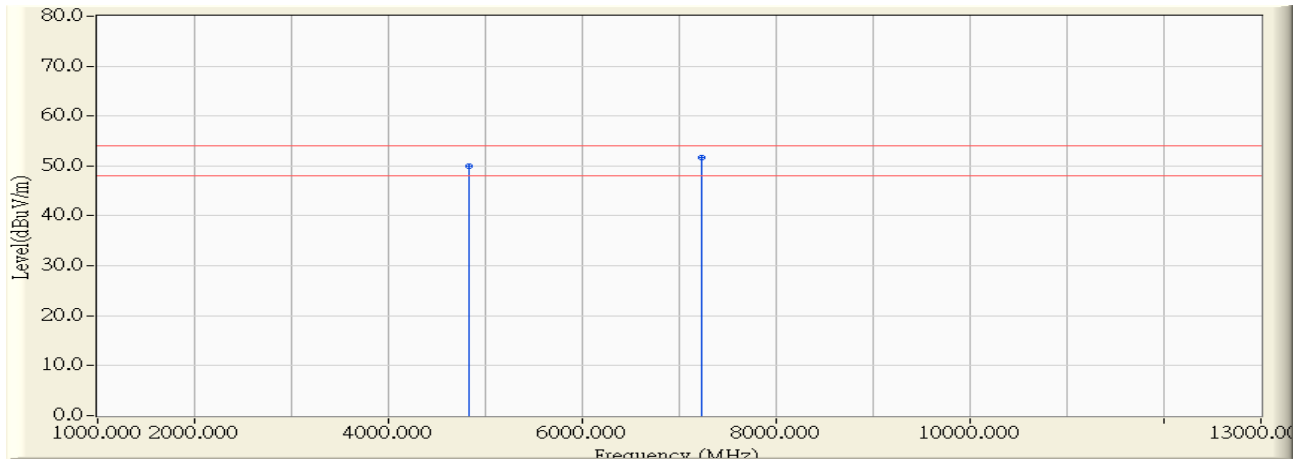


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4824.000	-0.803	52.583	51.780	-22.220	54.000	74.000	PEAK
2	* 7236.000	5.497	49.987	55.483	-18.517	54.000	74.000	PEAK
3	9648.000	9.230	40.167	49.398	-24.602	54.000	74.000	PEAK
4	12060.000	11.525	38.656	50.181	-23.819	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 : 2013/04/08 - 15:11
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : 802.11b 2412MHz

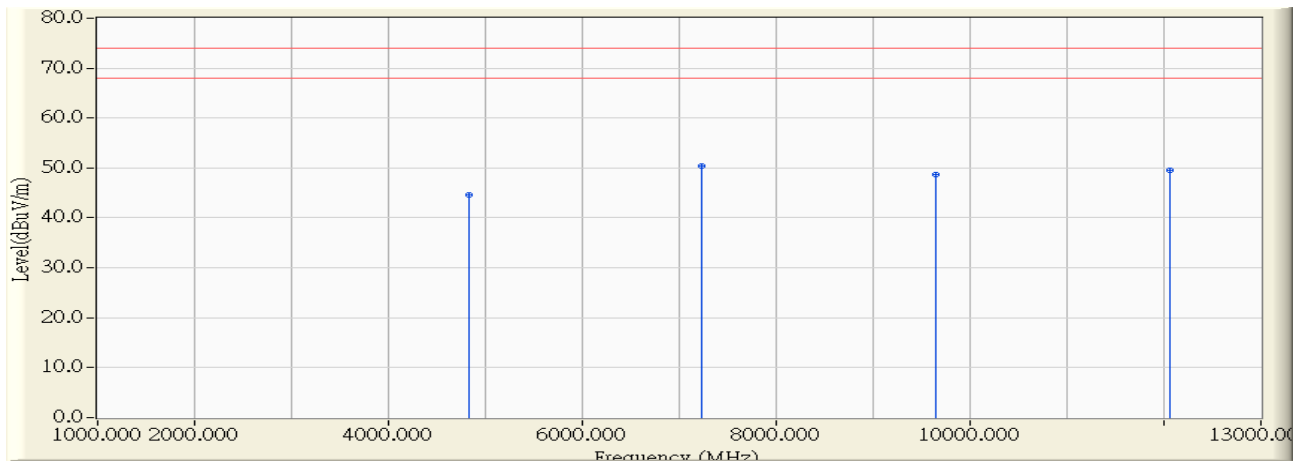


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1		4824.000	-0.803	50.733	49.930	-4.070	54.000	74.000	AVERAGE
2	*	7236.000	5.497	46.157	51.653	-2.347	54.000	74.000	AVERAGE

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 : 2013/04/08 - 16:44
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : 802.11b 2412MHz

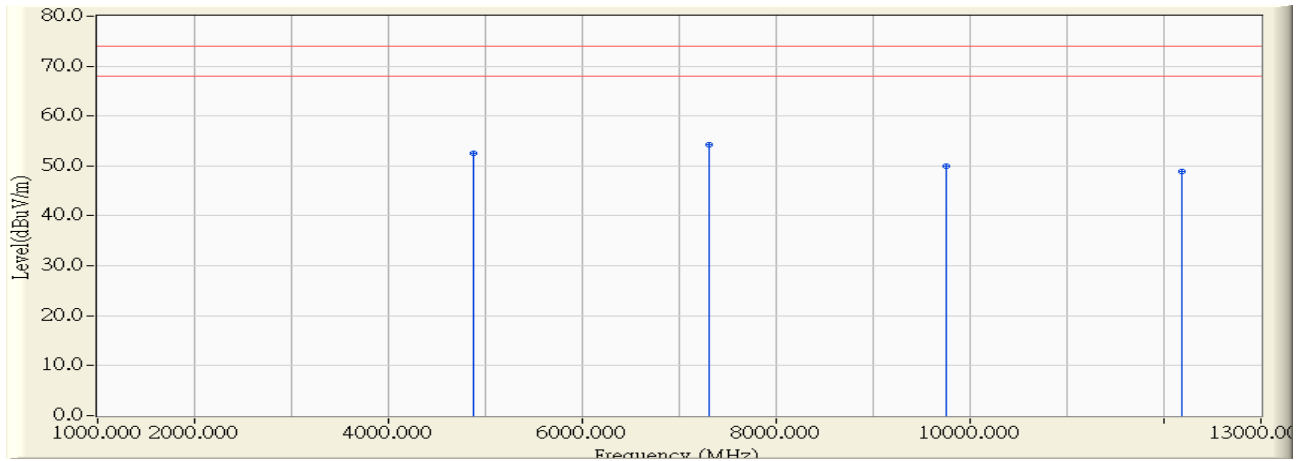


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1		4824.000	-0.803	45.396	44.593	-29.407	54.000	74.000	PEAK
2	*	7236.000	5.497	44.822	50.318	-23.682	54.000	74.000	PEAK
3		9648.000	9.230	39.391	48.622	-25.378	54.000	74.000	PEAK
4		12060.000	11.525	38.098	49.623	-24.377	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 : 2013/04/08 - 16:59
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : 802.11b 2437MHz

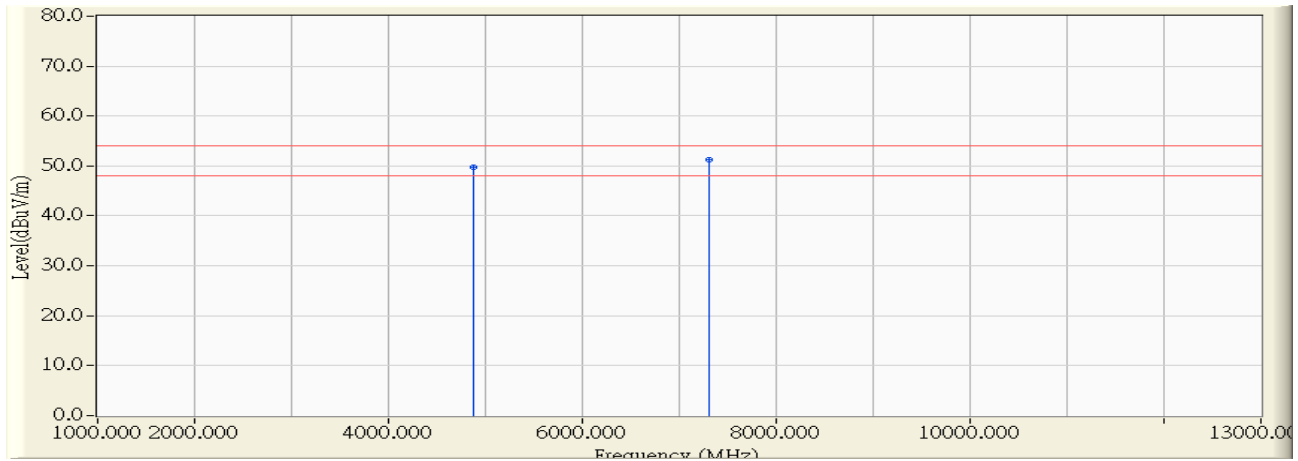


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1		4874.000	-0.672	53.306	52.634	-21.366	54.000	74.000	PEAK
2	*	7311.000	5.678	48.487	54.164	-19.836	54.000	74.000	PEAK
3		9748.000	9.955	40.073	50.028	-23.972	54.000	74.000	PEAK
4		12185.000	11.481	37.395	48.876	-25.124	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 : 2013/04/08 - 17:01
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : 802.11b 2437MHz

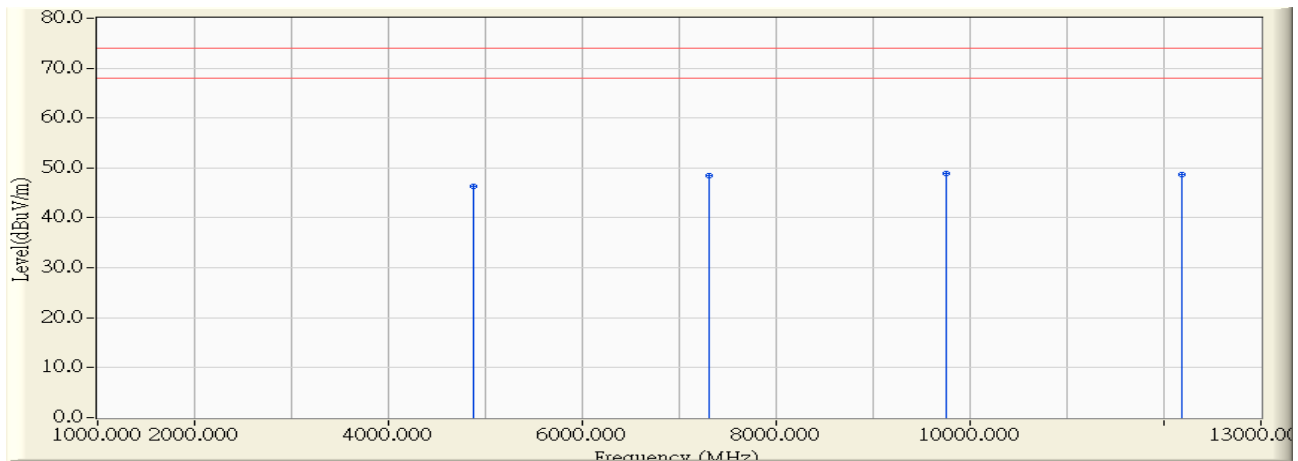


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1		4874.000	-0.672	50.532	49.860	-4.140	54.000	74.000	AVERAGE
2	*	7311.000	5.678	45.531	51.208	-2.792	54.000	74.000	AVERAGE

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 : 2013/04/08 - 17:11
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : 802.11b 2437MHz

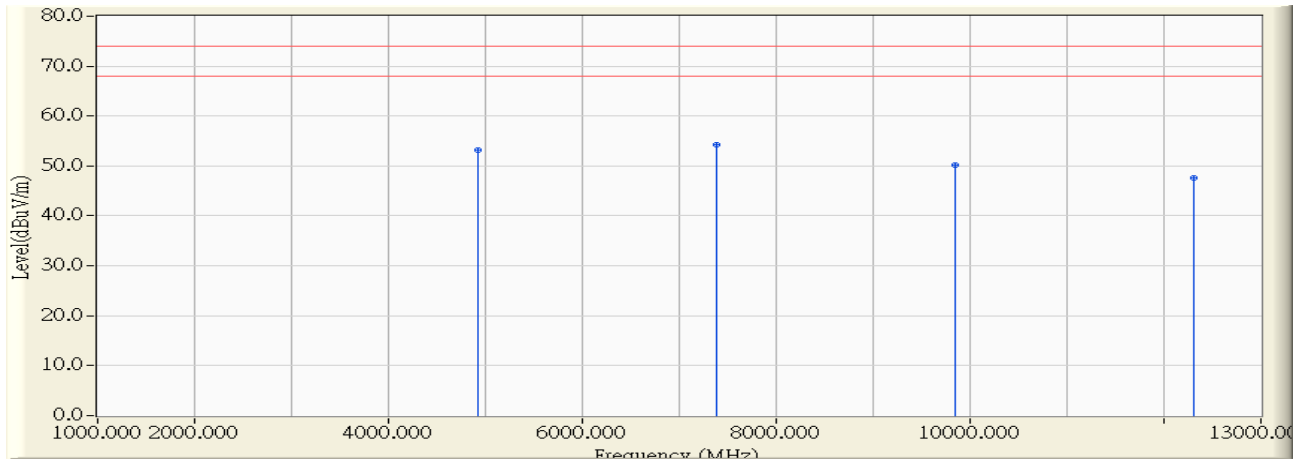


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4874.000	-0.672	46.947	46.275	-27.725	54.000	74.000	PEAK
2	7311.000	5.678	42.845	48.522	-25.478	54.000	74.000	PEAK
3	* 9748.000	9.955	38.978	48.933	-25.067	54.000	74.000	PEAK
4	12185.000	11.481	37.185	48.666	-25.334	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 : 2013/04/08 - 17:14
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : 802.11b 2462MHz

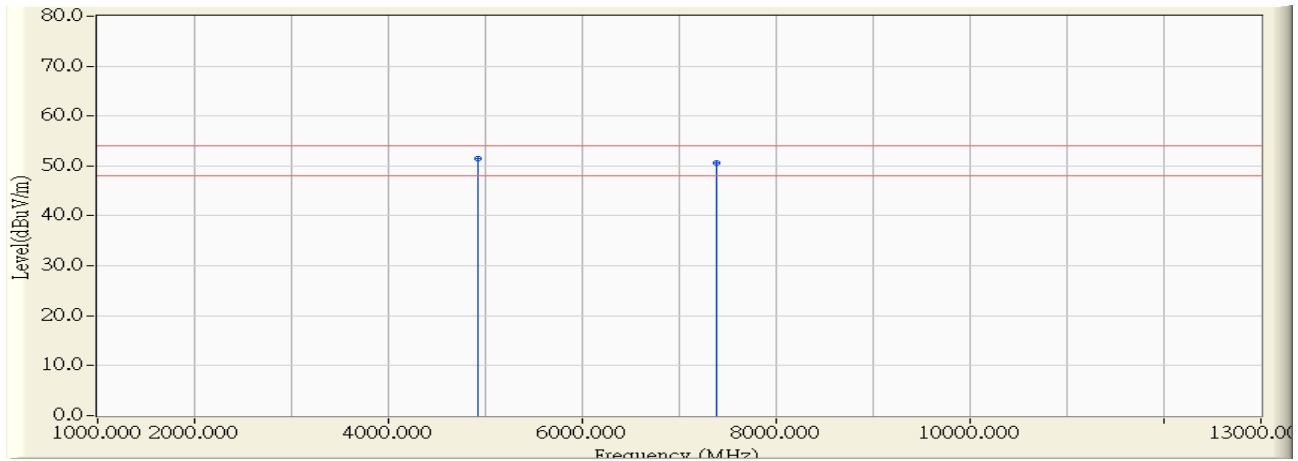


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1		4924.000	-0.541	53.680	53.139	-20.861	54.000	74.000	PEAK
2	*	7386.000	5.859	48.430	54.288	-19.712	54.000	74.000	PEAK
3		9848.000	10.680	39.522	50.202	-23.798	54.000	74.000	PEAK
4		12310.000	11.437	36.212	47.649	-26.351	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 : 2013/04/08 - 17:14
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : 802.11b 2462MHz

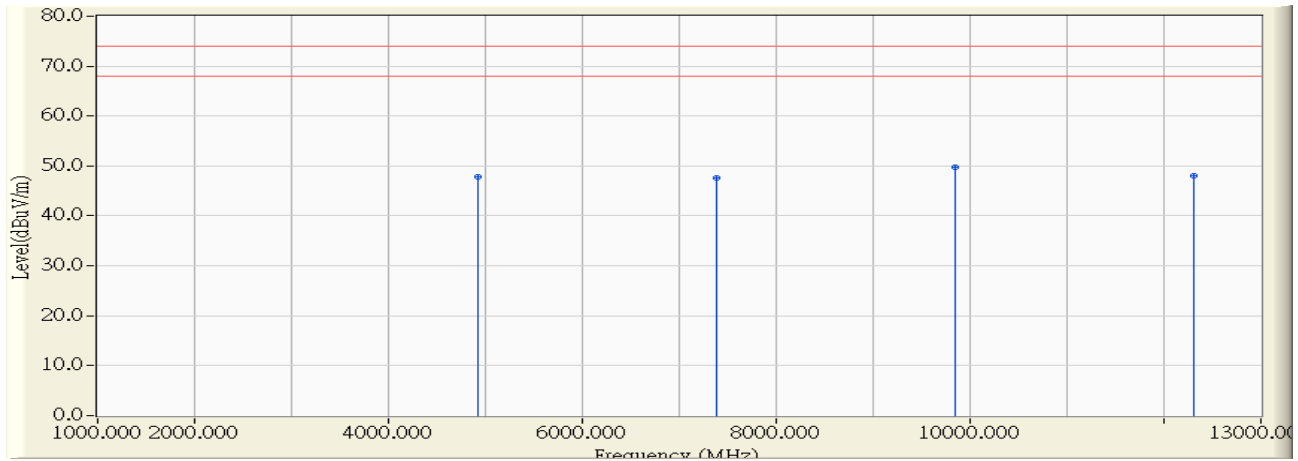


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	*	4924.000	-0.541	52.000	51.459	-2.541	54.000	74.000	AVERAGE
2		7386.000	5.859	44.703	50.561	-3.439	54.000	74.000	AVERAGE

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 : 2013/04/08 - 17:21
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : 802.11b 2462MHz

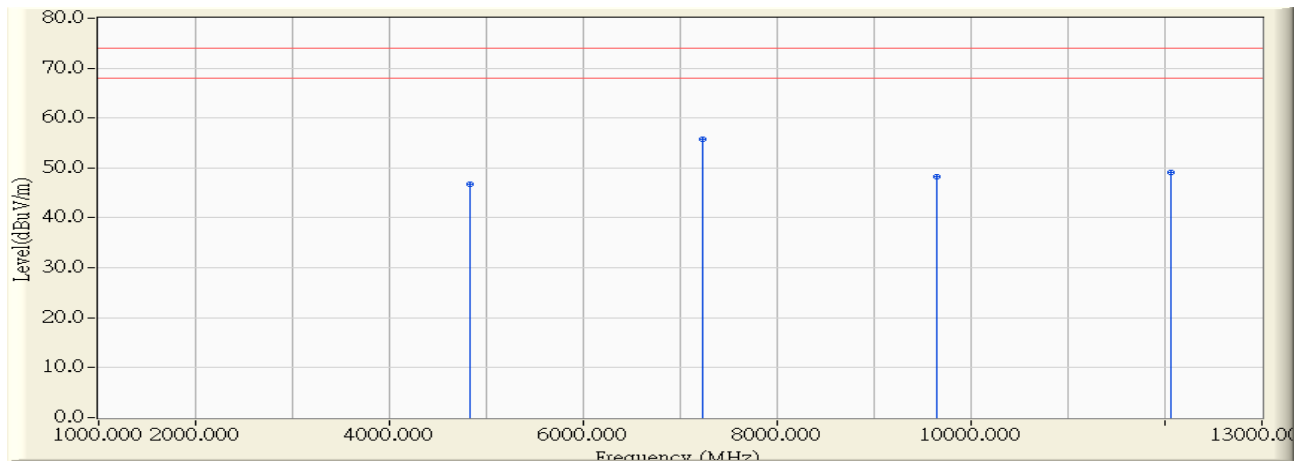


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4924.000	-0.541	48.266	47.725	-26.275	54.000	74.000	PEAK
2	7386.000	5.859	41.657	47.515	-26.485	54.000	74.000	PEAK
3	* 9848.000	10.680	39.069	49.749	-24.251	54.000	74.000	PEAK
4	12310.000	11.437	36.508	47.945	-26.055	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 : 2013/04/08 - 17:29
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : 802.11g 2412MHz

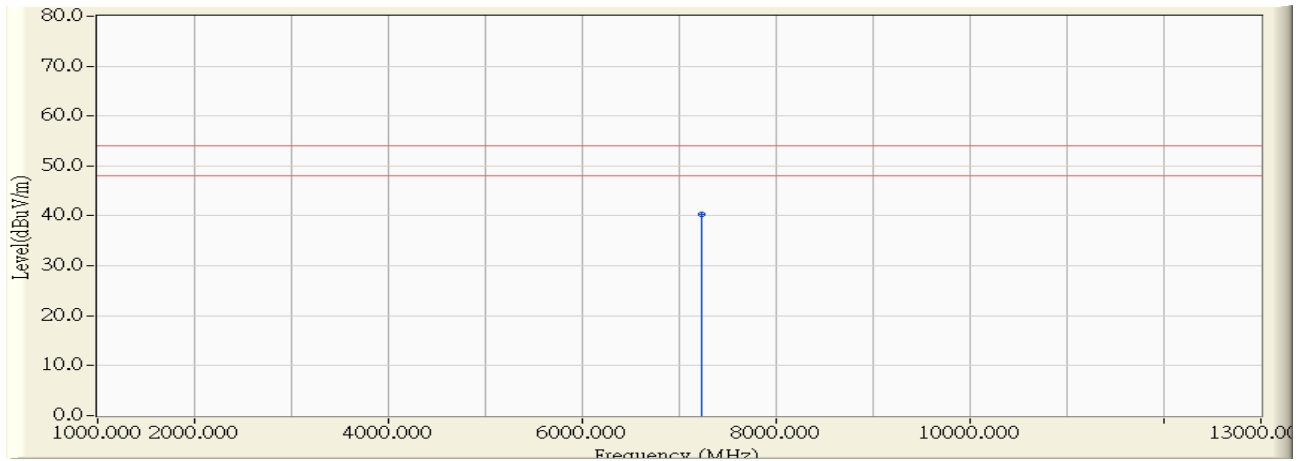


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1		4824.000	-0.803	47.494	46.691	-27.309	54.000	74.000	PEAK
2	*	7236.000	5.497	50.299	55.795	-18.205	54.000	74.000	PEAK
3		9648.000	9.230	38.948	48.179	-25.821	54.000	74.000	PEAK
4		12060.000	11.525	37.551	49.076	-24.924	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 : 2013/04/08 - 17:29
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : 802.11g 2412MHz

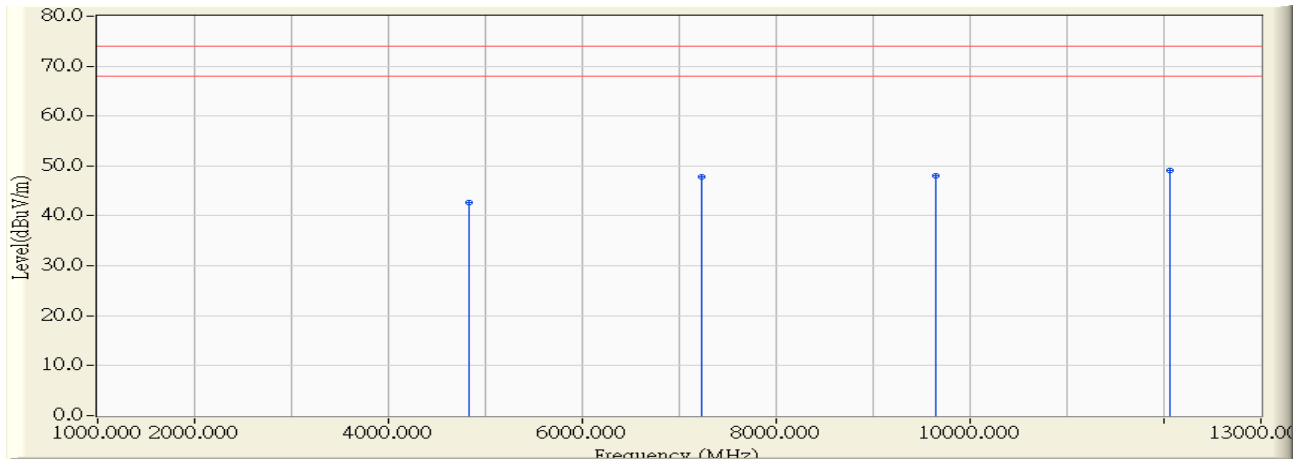


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	*	7236.000	5.497	34.735	40.231	-13.769	54.000	74.000	AVERAGE

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 : 2013/04/08 - 17:34
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : 802.11g 2412MHz

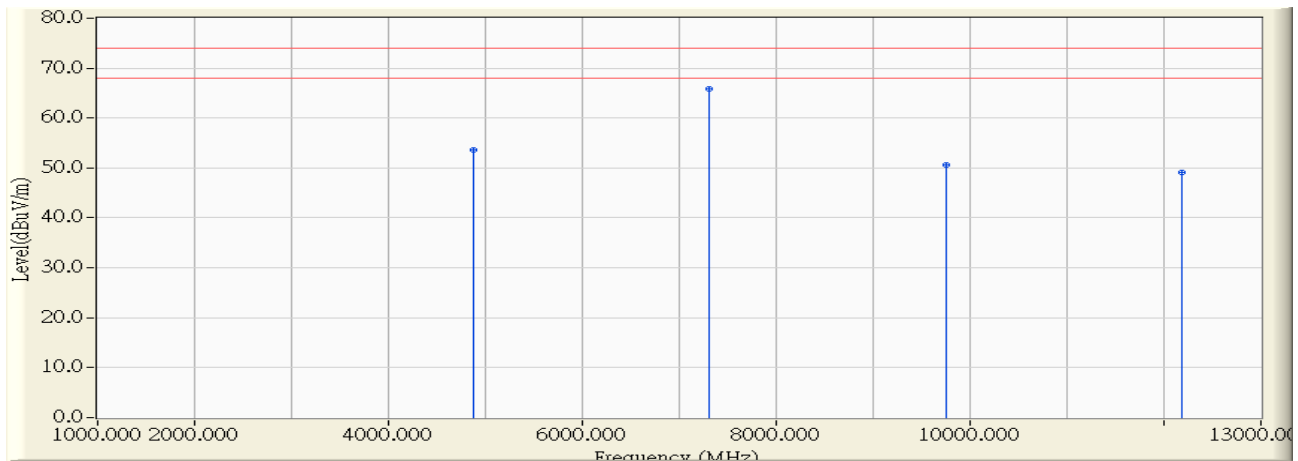


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1		4824.000	-0.803	43.384	42.581	-31.419	54.000	74.000	PEAK
2		7236.000	5.497	42.369	47.865	-26.135	54.000	74.000	PEAK
3		9648.000	9.230	38.708	47.939	-26.061	54.000	74.000	PEAK
4	*	12060.000	11.525	37.641	49.166	-24.834	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 : 2013/04/08 - 17:39
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : 802.11g 2437MHz

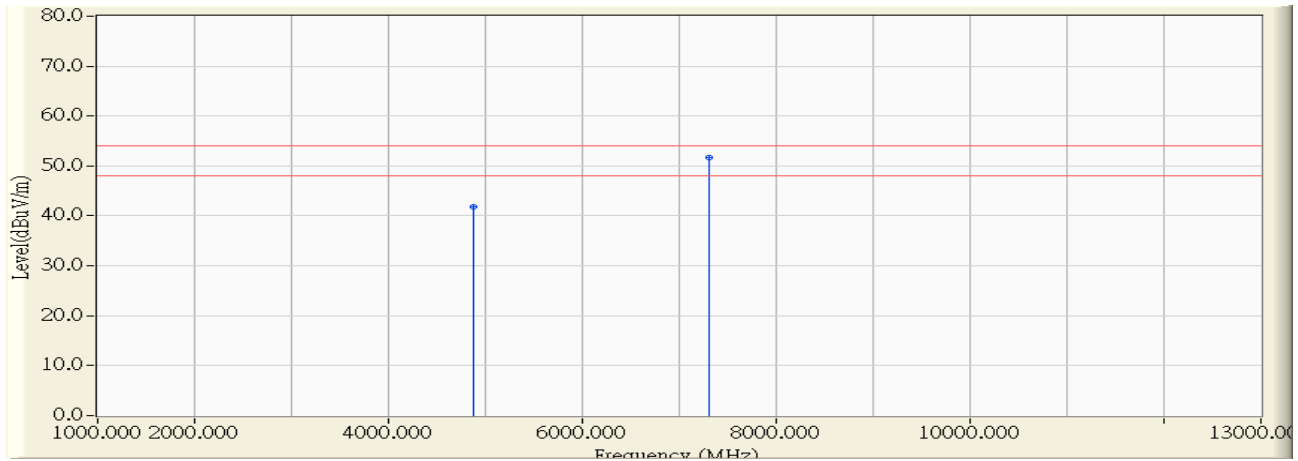


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1		4874.000	-0.672	54.299	53.627	-20.373	54.000	74.000	PEAK
2	*	7311.000	5.678	60.062	65.739	-8.261	54.000	74.000	PEAK
3		9748.000	9.955	40.566	50.521	-23.479	54.000	74.000	PEAK
4		12185.000	11.481	37.579	49.060	-24.940	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 : 2013/04/08 - 17:45
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : 802.11g 2437MHz

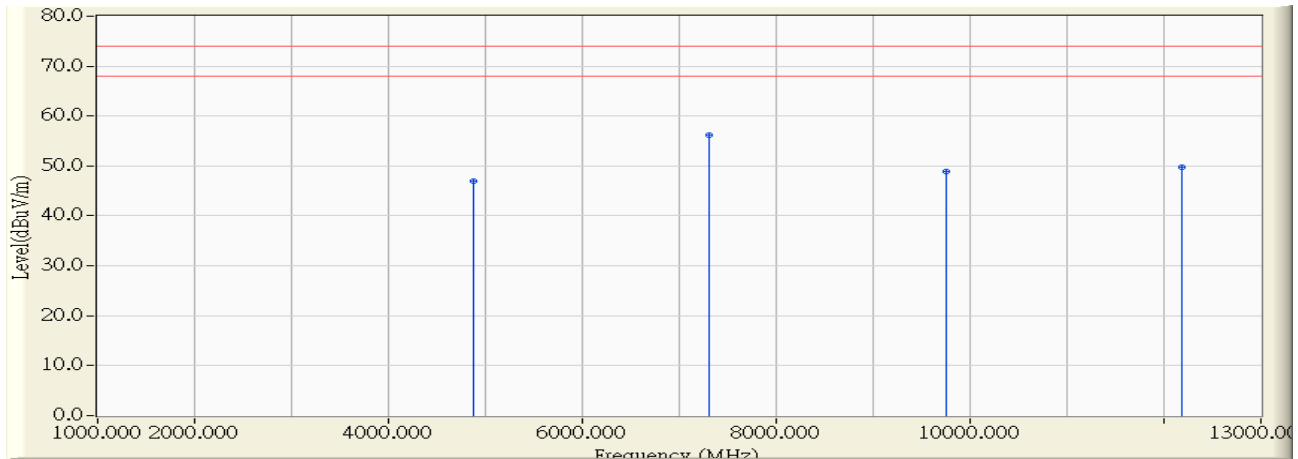


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1		4874.000	-0.672	42.390	41.718	-12.282	54.000	74.000	AVERAGE
2	*	7311.000	5.678	45.969	51.646	-2.354	54.000	74.000	AVERAGE

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 : 2013/04/08 - 17:55
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : 802.11g 2437MHz

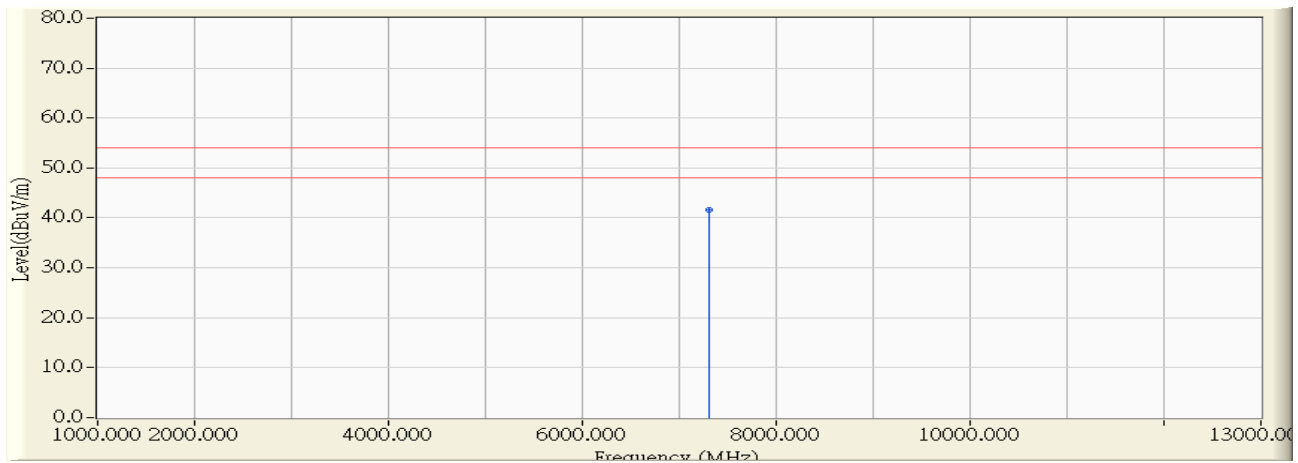


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1		4874.000	-0.672	47.586	46.914	-27.086	54.000	74.000	PEAK
2	*	7311.000	5.678	50.470	56.147	-17.853	54.000	74.000	PEAK
3		9748.000	9.955	39.010	48.965	-25.035	54.000	74.000	PEAK
4		12185.000	11.481	38.304	49.785	-24.215	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 : 2013/04/08 – 18:01
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : 802.11g 2437MHz

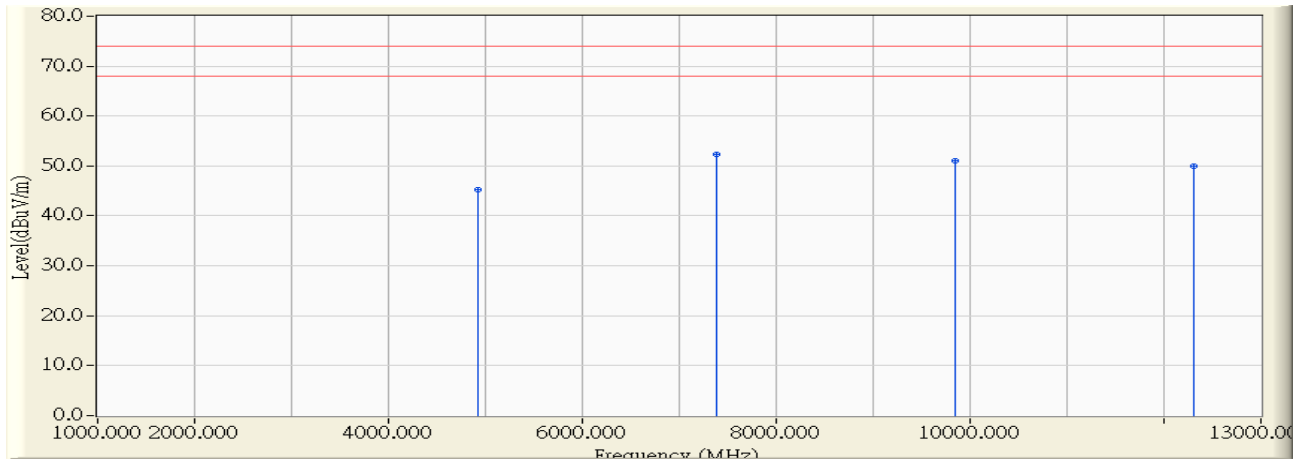


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	*	7311.000	5.678	35.997	41.674	-12.326	54.000	74.000	AVERAGE

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 : 2013/04/08 – 18:07
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : 802.11g 2462MHz

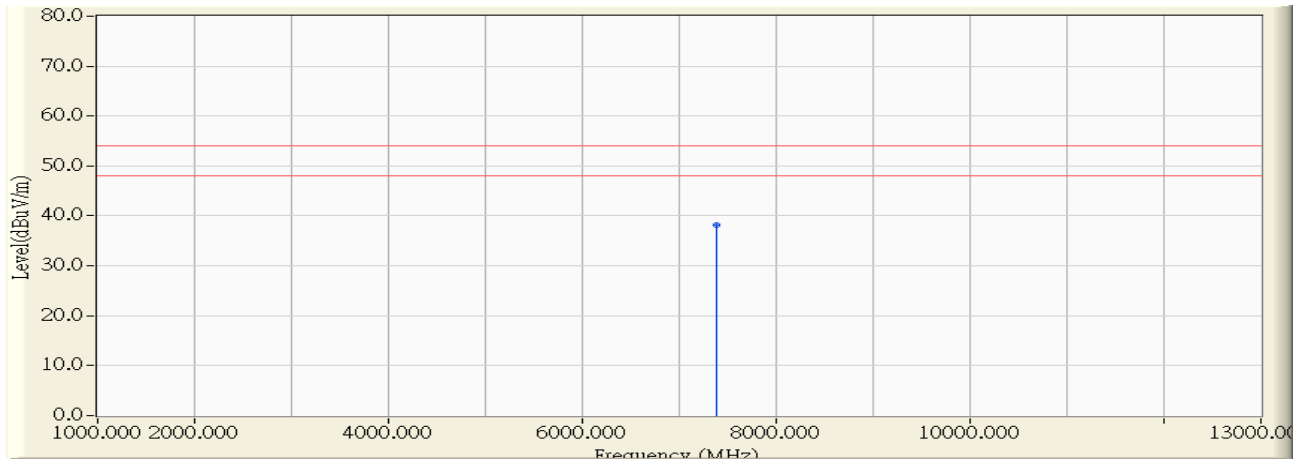


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1		4924.000	-0.541	45.791	45.250	-28.750	54.000	74.000	PEAK
2	*	7386.000	5.859	46.533	52.391	-21.609	54.000	74.000	PEAK
3		9848.000	10.680	40.288	50.968	-23.032	54.000	74.000	PEAK
4		12310.000	11.437	38.494	49.931	-24.069	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 : 2013/04/08 – 18:13
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : 802.11g 2462MHz

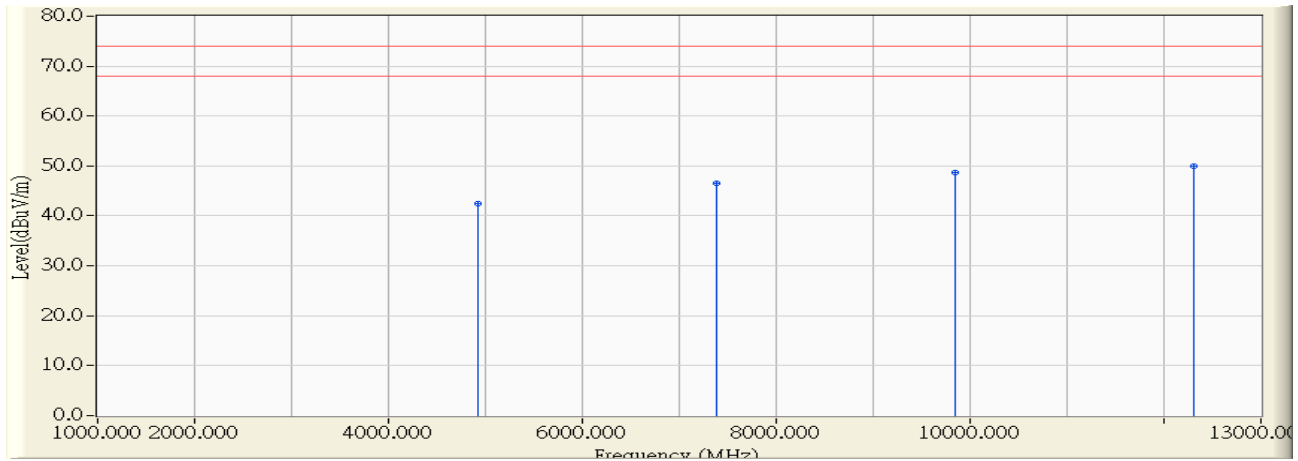


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	*	7386.000	5.859	32.222	38.080	-15.920	54.000	74.000	AVERAGE

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 : 2013/04/08 - 18:19
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : 802.11g 2462MHz

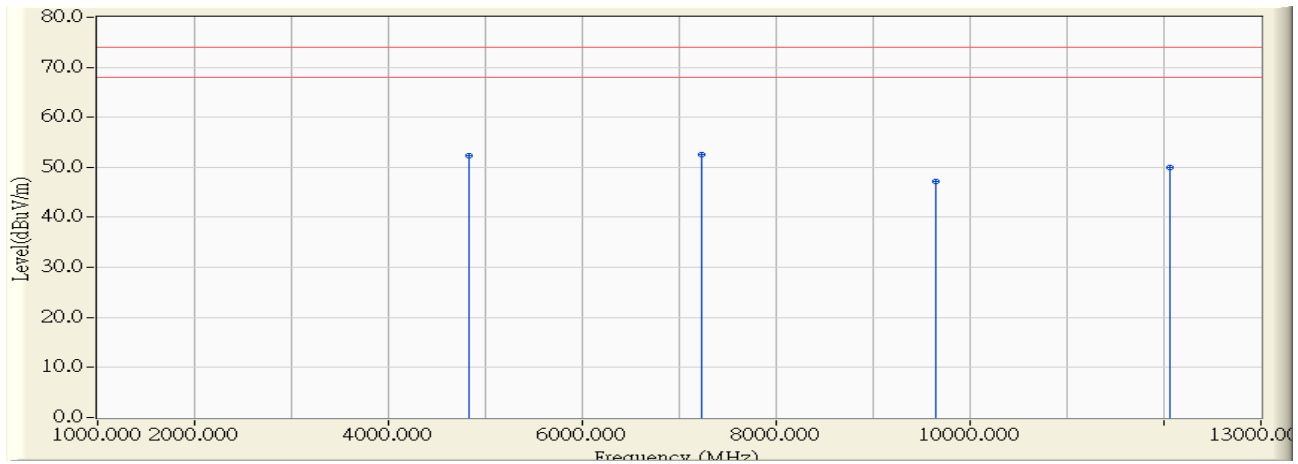


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1		4924.000	-0.541	42.990	42.449	-31.551	54.000	74.000	PEAK
2		7386.000	5.859	40.724	46.582	-27.418	54.000	74.000	PEAK
3		9848.000	10.680	38.065	48.745	-25.255	54.000	74.000	PEAK
4	*	12310.000	11.437	38.515	49.952	-24.048	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 : 2013/04/08 - 18:25
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : 802.11n 20MHz 2412MHz

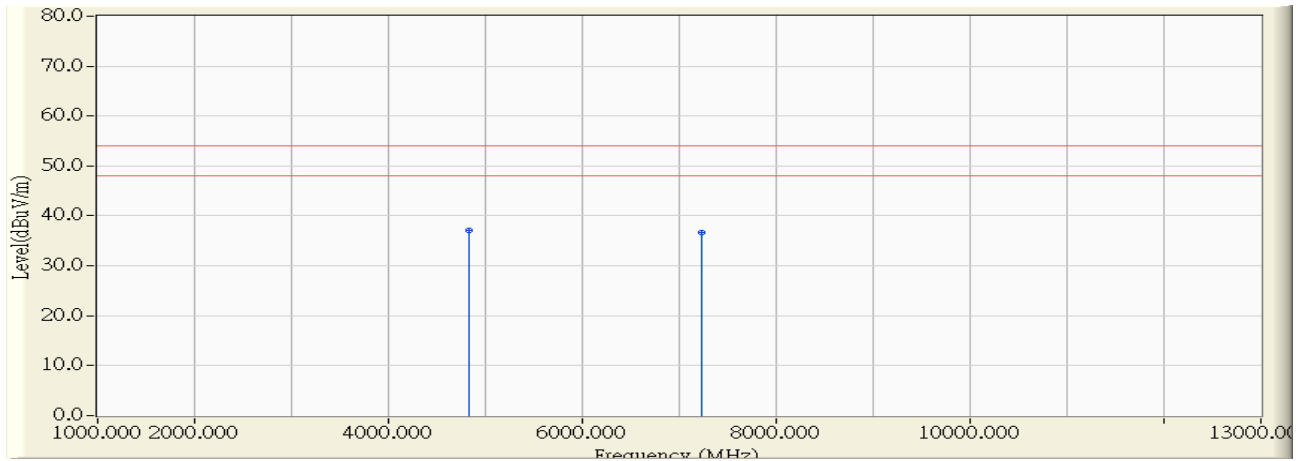


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1		4824.000	33.732	53.029	52.226	-21.774	54.000	74.000	PEAK
2	*	7236.000	40.244	47.117	52.613	-21.387	54.000	74.000	PEAK
3		9648.000	44.171	37.970	47.201	-26.799	54.000	74.000	PEAK
4		12060.000	45.677	38.349	49.874	-24.126	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 : 2013/04/08 - 18:29
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : 802.11n 20MHz 2412MHz

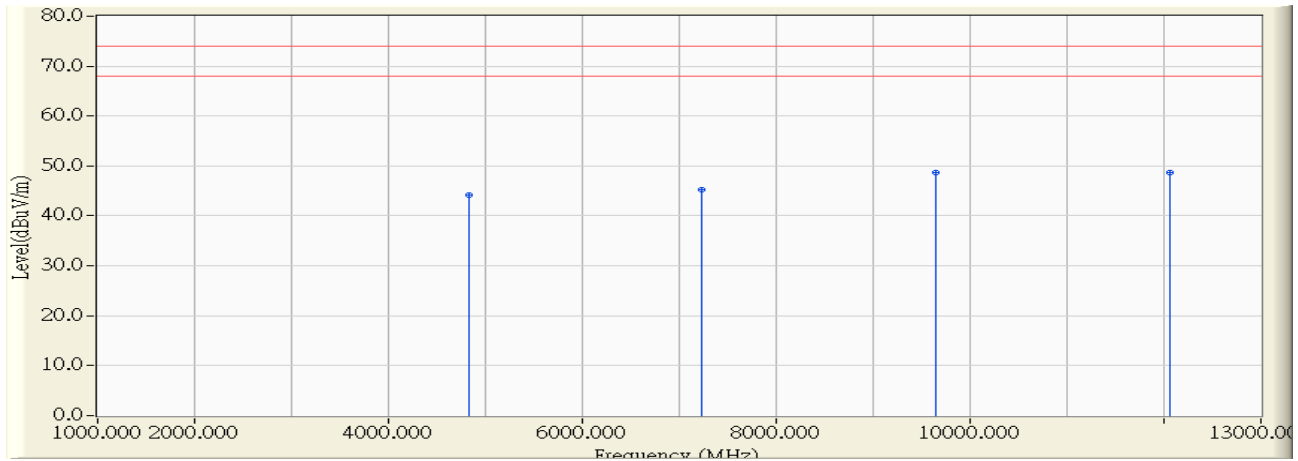


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	*	4824.000	-0.803	37.813	37.010	-16.990	54.000	74.000	AVERAGE
2		7236.000	5.497	31.269	36.765	-17.235	54.000	74.000	AVERAGE

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 : 2013/04/08 - 18:34
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : 802.11n 20MHz 2412MHz

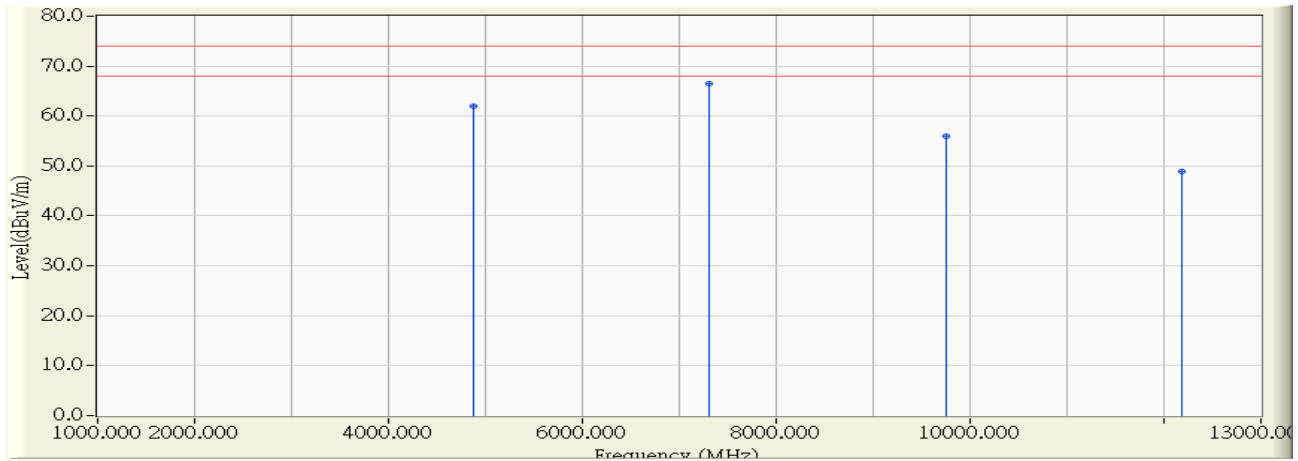


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4824.000	-0.803	44.921	44.118	-29.882	54.000	74.000	PEAK
2	7236.000	5.497	39.847	45.343	-28.657	54.000	74.000	PEAK
3	* 9648.000	9.230	39.414	48.645	-25.355	54.000	74.000	PEAK
4	12060.000	11.525	37.104	48.629	-25.371	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 : 2013/04/08 - 18:40
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : 802.11n 20MHz 2437MHz

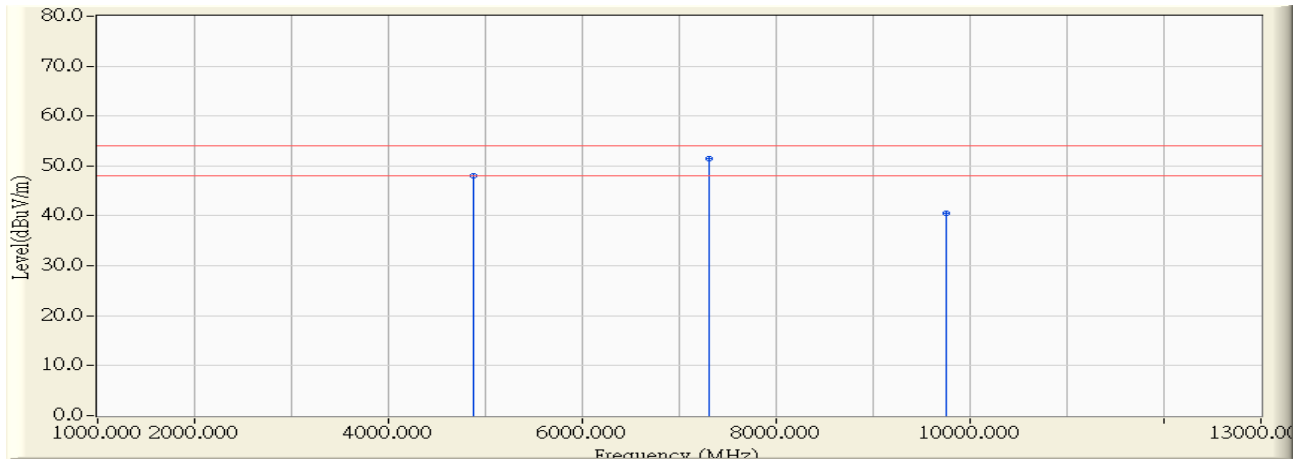


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1		4874.000	-0.672	62.638	61.966	-12.034	54.000	74.000	PEAK
2	*	7311.000	5.678	60.802	66.479	-7.521	54.000	74.000	PEAK
3		9748.000	9.955	45.960	55.915	-18.085	54.000	74.000	PEAK
4		12185.000	11.481	37.452	48.933	-25.067	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 : 2013/04/08 - 18:46
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : 802.11n 20MHz 2437MHz

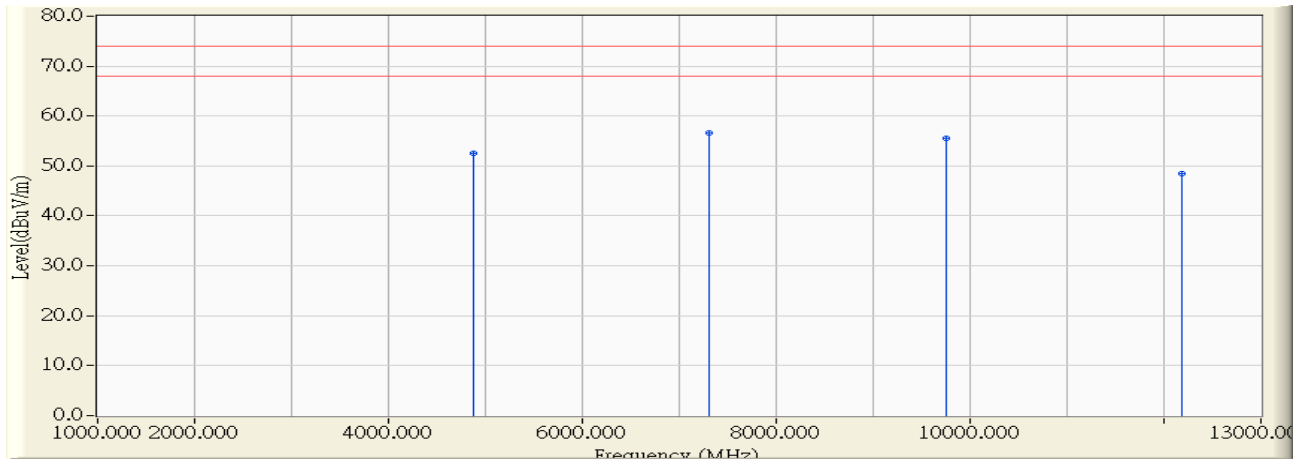


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1		4874.000	-0.672	48.790	48.118	-5.882	54.000	74.000	AVERAGE
2	*	7311.000	5.678	45.796	51.473	-2.527	54.000	74.000	AVERAGE
3		9748.000	9.955	30.681	40.636	-13.364	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 : 2013/04/08 - 19:10
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : 802.11n 20MHz 2437MHz

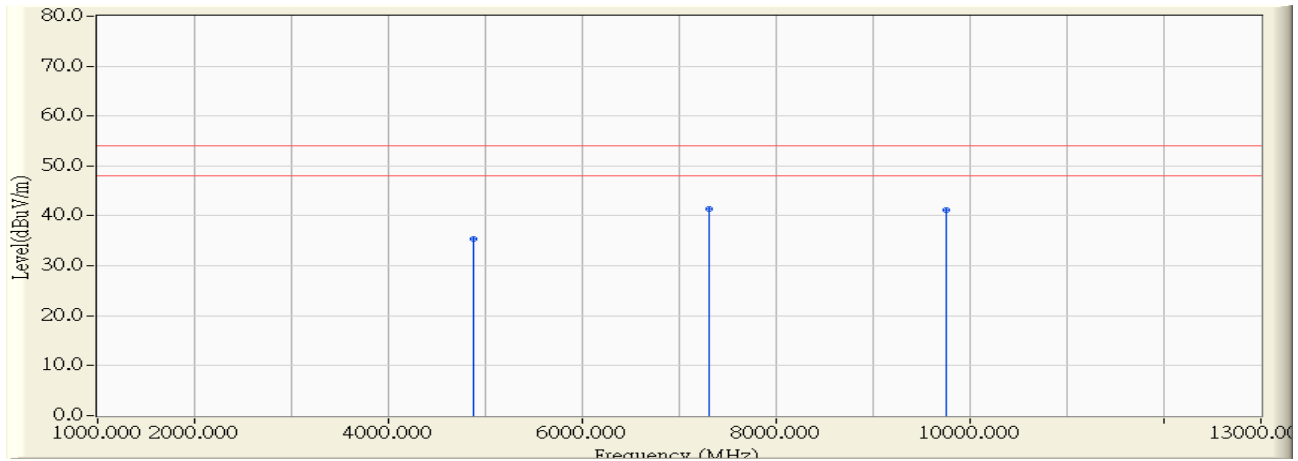


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1		4874.000	-0.672	53.258	52.586	-21.414	54.000	74.000	PEAK
2	*	7311.000	5.678	50.879	56.556	-17.444	54.000	74.000	PEAK
3		9748.000	9.955	45.548	55.503	-18.497	54.000	74.000	PEAK
4		12185.000	11.481	37.078	48.559	-25.441	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 : 2013/04/08 - 19:10
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : 802.11n 20MHz 2437MHz

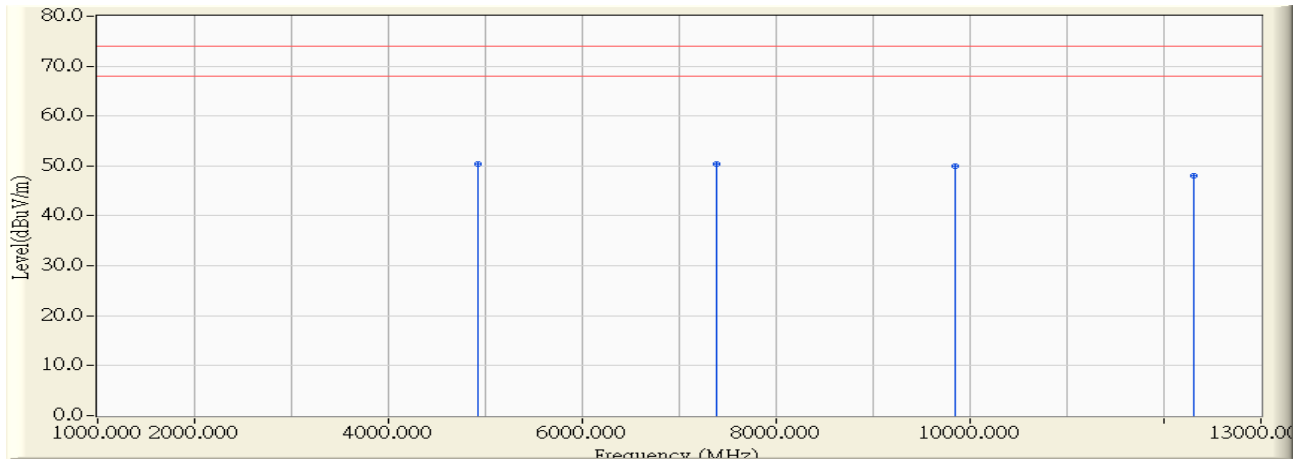


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1		4874.000	-0.672	35.964	35.292	-18.708	54.000	74.000	AVERAGE
2	*	7311.000	5.678	35.628	41.305	-12.695	54.000	74.000	AVERAGE
3		9748.000	9.955	31.212	41.167	-12.833	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 : 2013/04/08 - 19:17
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : 802.11n 20MHz 2462MHz

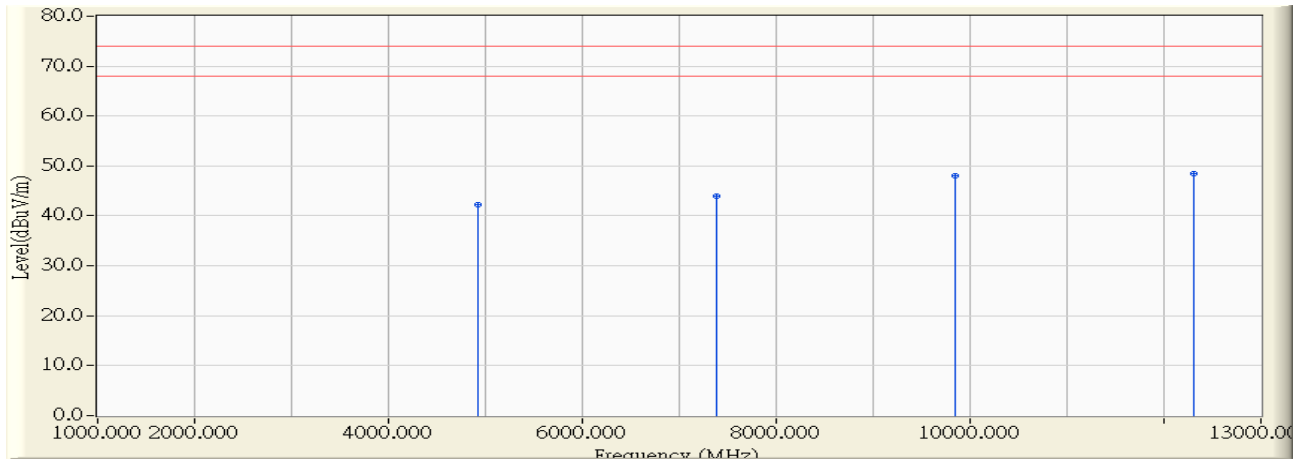


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1		4924.000	-0.541	51.043	50.502	-23.498	54.000	74.000	PEAK
2	*	7386.000	5.859	44.558	50.416	-23.584	54.000	74.000	PEAK
3		9848.000	10.680	39.384	50.064	-23.936	54.000	74.000	PEAK
4		12310.000	11.437	36.708	48.145	-25.855	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 : 2013/04/08 - 19:27
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : 802.11n 20MHz 2462MHz

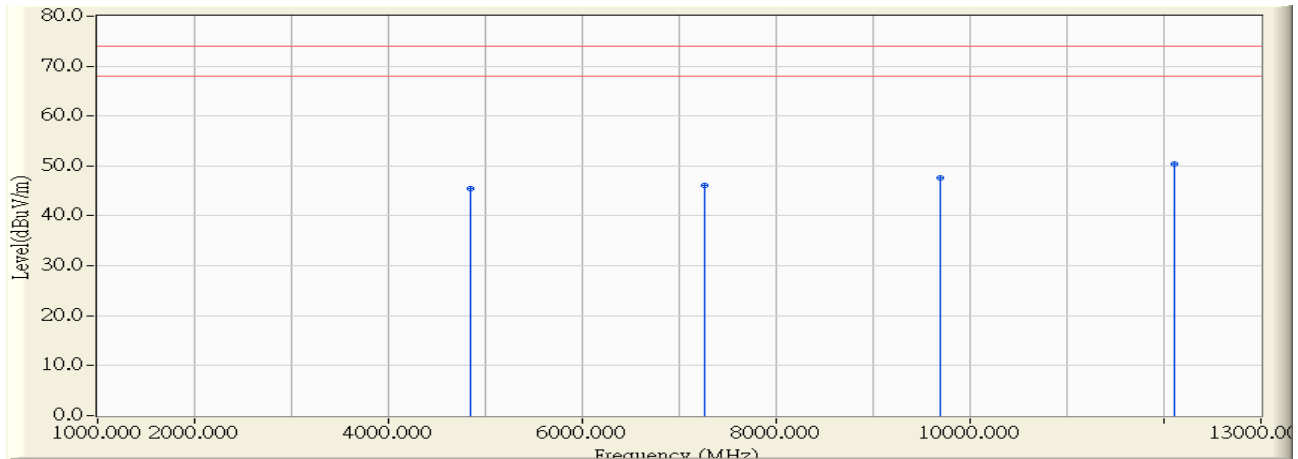


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1		4924.000	-0.541	42.812	42.271	-31.729	54.000	74.000	PEAK
2		7386.000	5.859	38.015	43.873	-30.127	54.000	74.000	PEAK
3		9848.000	10.680	37.465	48.145	-25.855	54.000	74.000	PEAK
4	*	12310.000	11.437	37.079	48.516	-25.484	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 : 2013/04/08 - 19:31
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : 802.11n 40MHz 2422MHz

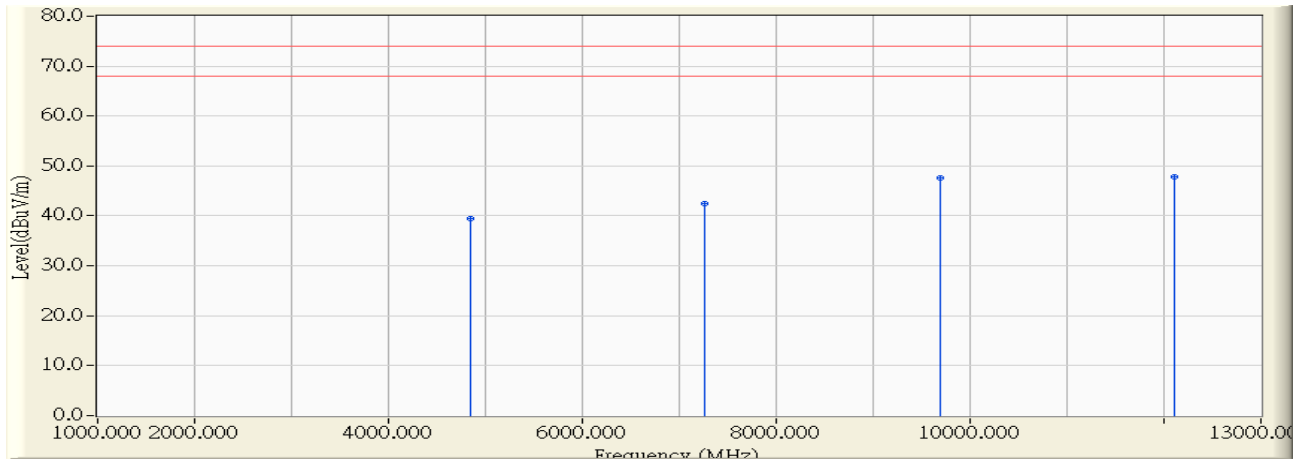


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1		4844.000	-0.751	46.324	45.573	-28.427	54.000	74.000	PEAK
2		7266.000	5.569	40.442	46.011	-27.989	54.000	74.000	PEAK
3		9688.000	9.520	38.065	47.586	-26.414	54.000	74.000	PEAK
4	*	12110.000	11.508	38.994	50.502	-23.498	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 : 2013/04/08 - 19:35
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : 802.11n 40MHz 2422MHz

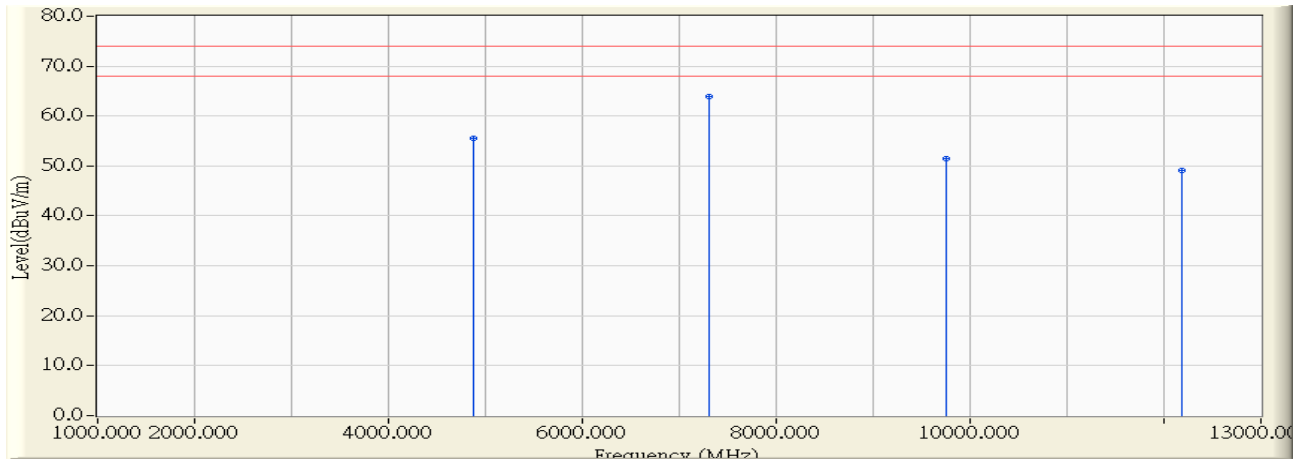


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1		4844.000	-0.751	40.127	39.376	-34.624	54.000	74.000	PEAK
2		7266.000	5.569	37.000	42.569	-31.431	54.000	74.000	PEAK
3		9688.000	9.520	38.162	47.683	-26.317	54.000	74.000	PEAK
4	*	12110.000	11.508	36.392	47.900	-26.100	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 : 2013/04/08 - 19:38
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : 802.11n 40MHz 2437MHz

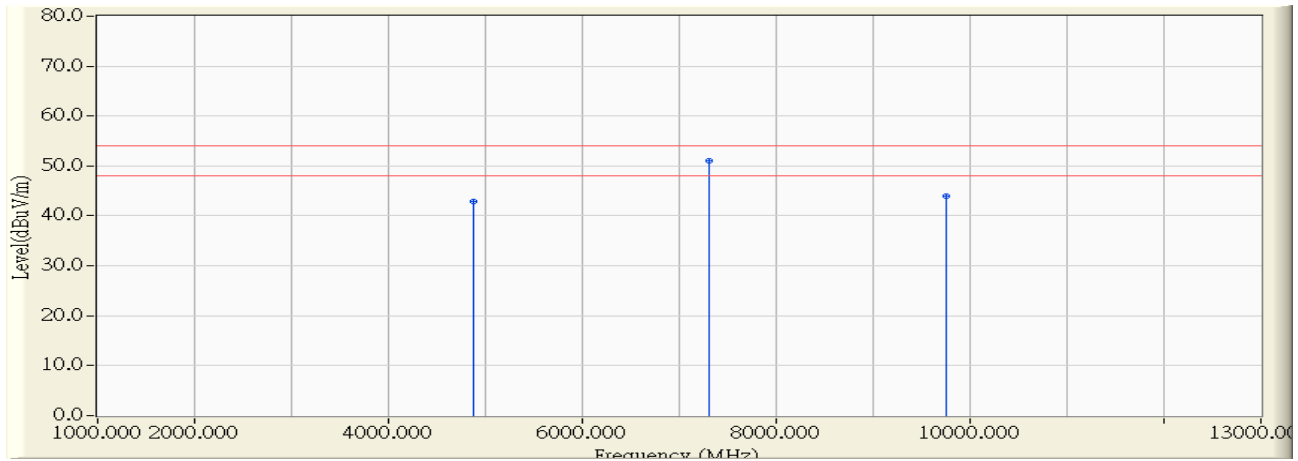


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1		4874.000	-0.672	56.317	55.645	-18.355	54.000	74.000	PEAK
2	*	7311.000	5.678	58.252	63.929	-10.071	54.000	74.000	PEAK
3		9748.000	9.955	41.532	51.487	-22.513	54.000	74.000	PEAK
4		12185.000	11.481	37.569	49.050	-24.950	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 : 2013/04/08 - 19:38
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : 802.11n 40MHz 2437MHz

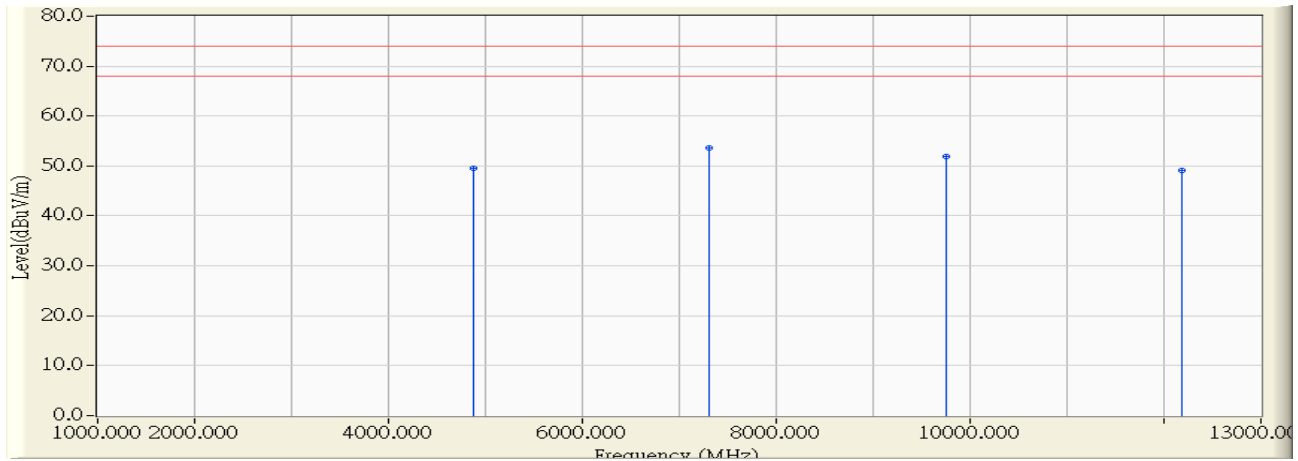


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1		4874.000	-0.672	43.636	42.964	-11.036	54.000	74.000	AVERAGE
2	*	7311.000	5.678	45.444	51.121	-2.879	54.000	74.000	AVERAGE
3		9748.000	9.955	33.942	43.897	-10.103	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 : 2013/04/08 - 19:46
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : 802.11n 40MHz 2437MHz

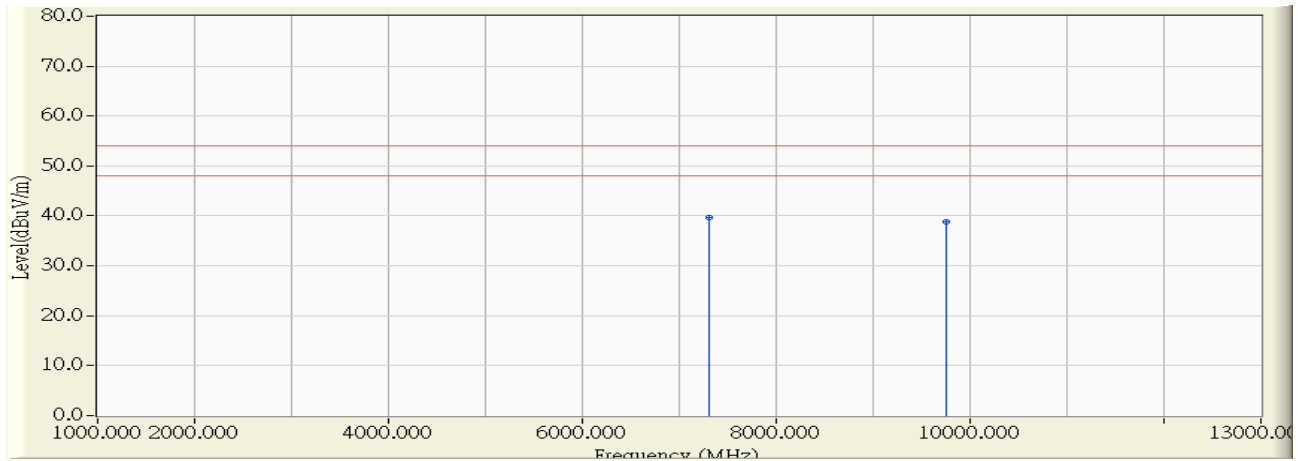


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1		4874.000	-0.672	50.151	49.479	-24.521	54.000	74.000	PEAK
2	*	7311.000	5.678	47.846	53.523	-20.477	54.000	74.000	PEAK
3		9748.000	9.955	41.919	51.874	-22.126	54.000	74.000	PEAK
4		12185.000	11.481	37.631	49.112	-24.888	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 : 2013/04/08 - 19:47
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : 802.11n 40MHz 2437MHz

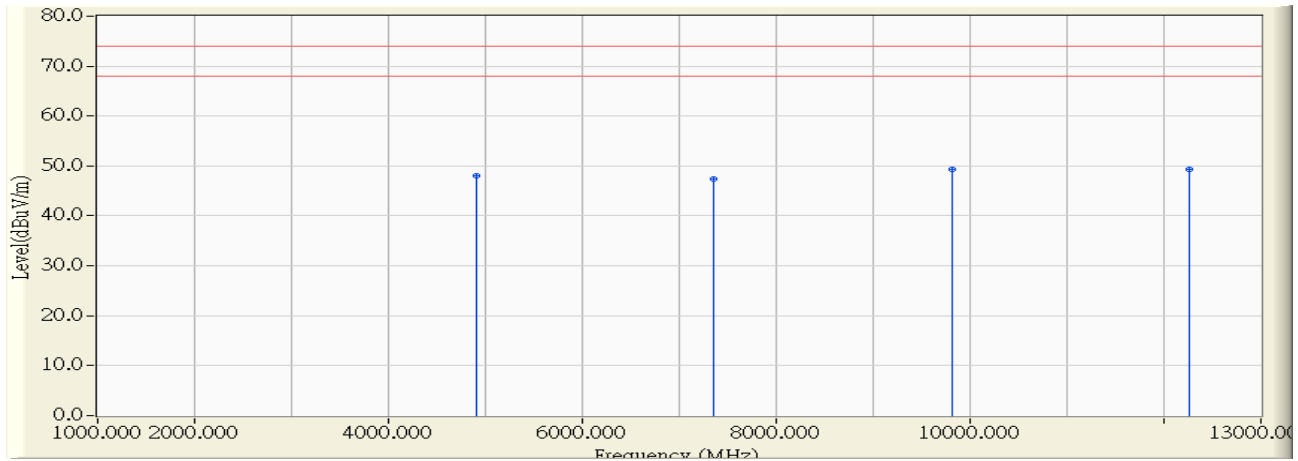


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	*	7311.000	5.678	33.998	39.675	-14.325	54.000	74.000	AVERAGE
2		9748.000	9.955	28.926	38.881	-15.119	54.000	74.000	AVERAGE

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 : 2013/04/08 - 19:55
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : 802.11n 40MHz 2452MHz

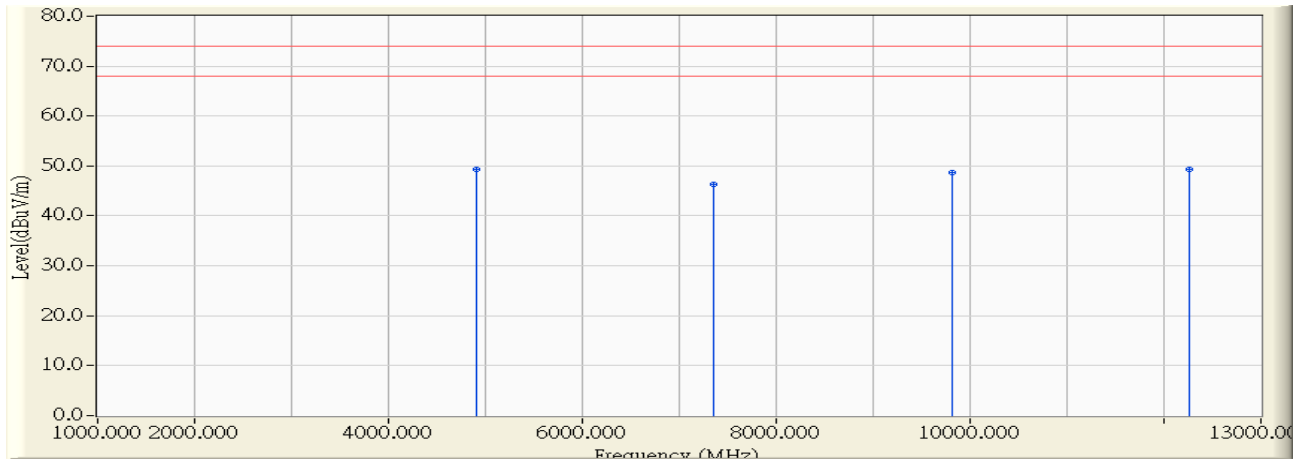


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4904.000	-0.593	48.556	47.963	-26.037	54.000	74.000	PEAK
2	7356.000	5.786	41.555	47.341	-26.659	54.000	74.000	PEAK
3	* 9808.000	10.390	38.977	49.367	-24.633	54.000	74.000	PEAK
4	12260.000	11.455	37.782	49.237	-24.763	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 : 2013/04/08 - 19:57
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless-N300 Cloud Router	Note : 802.11n 40MHz 2452MHz



		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	*	4904.000	-0.593	50.003	49.410	-24.590	54.000	74.000	PEAK
2		7356.000	5.786	40.503	46.289	-27.711	54.000	74.000	PEAK
3		9808.000	10.390	38.278	48.668	-25.332	54.000	74.000	PEAK
4		12260.000	11.455	37.931	49.386	-24.614	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.

5. RF antenna conducted test

5.1. Test Equipment

The following test equipments are used during the test:

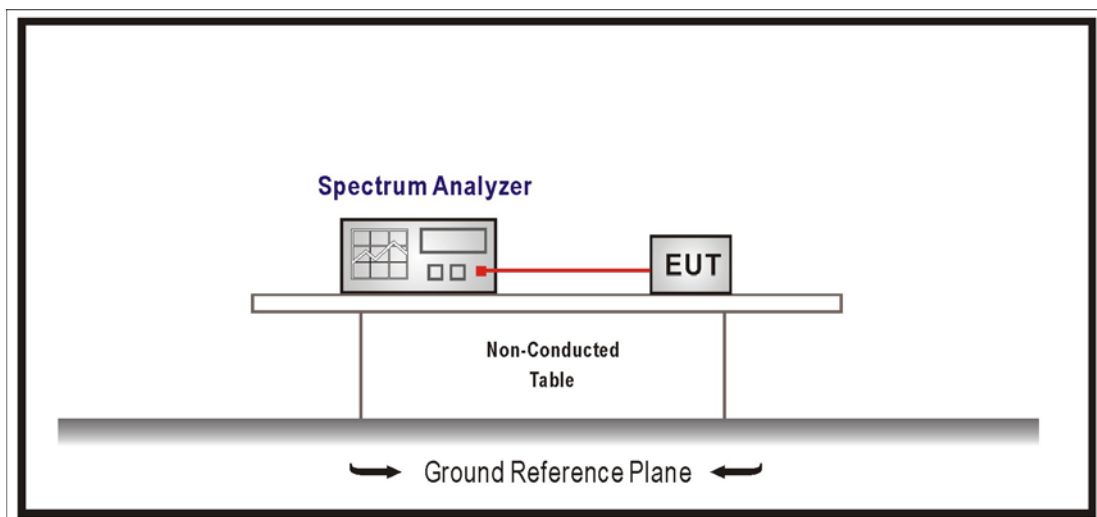
RF antenna conducted test / SR7

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 $\pm 1.27\text{dB}$

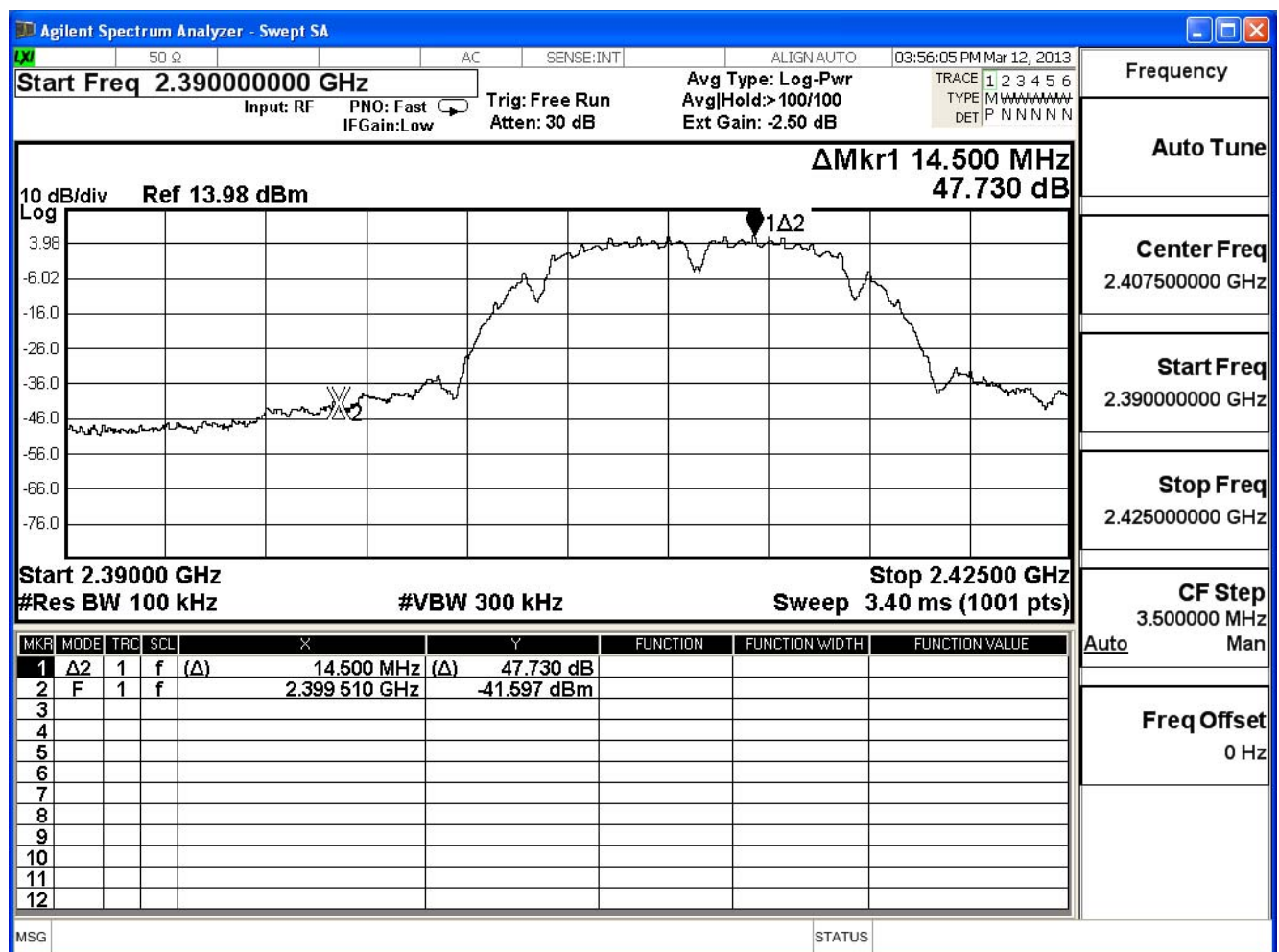
5.7. Test Result

Product	Wireless-N300 Cloud Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit (DSA-12PFA-09)		
Date of Test	2013/03/12	Test Site	SR7

IEEE 802.11b, Duty Cycle: 1

Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	47.730	≥20	Pass
11	2462	58.027	≥20	Pass

Channel 01 (2412MHz)



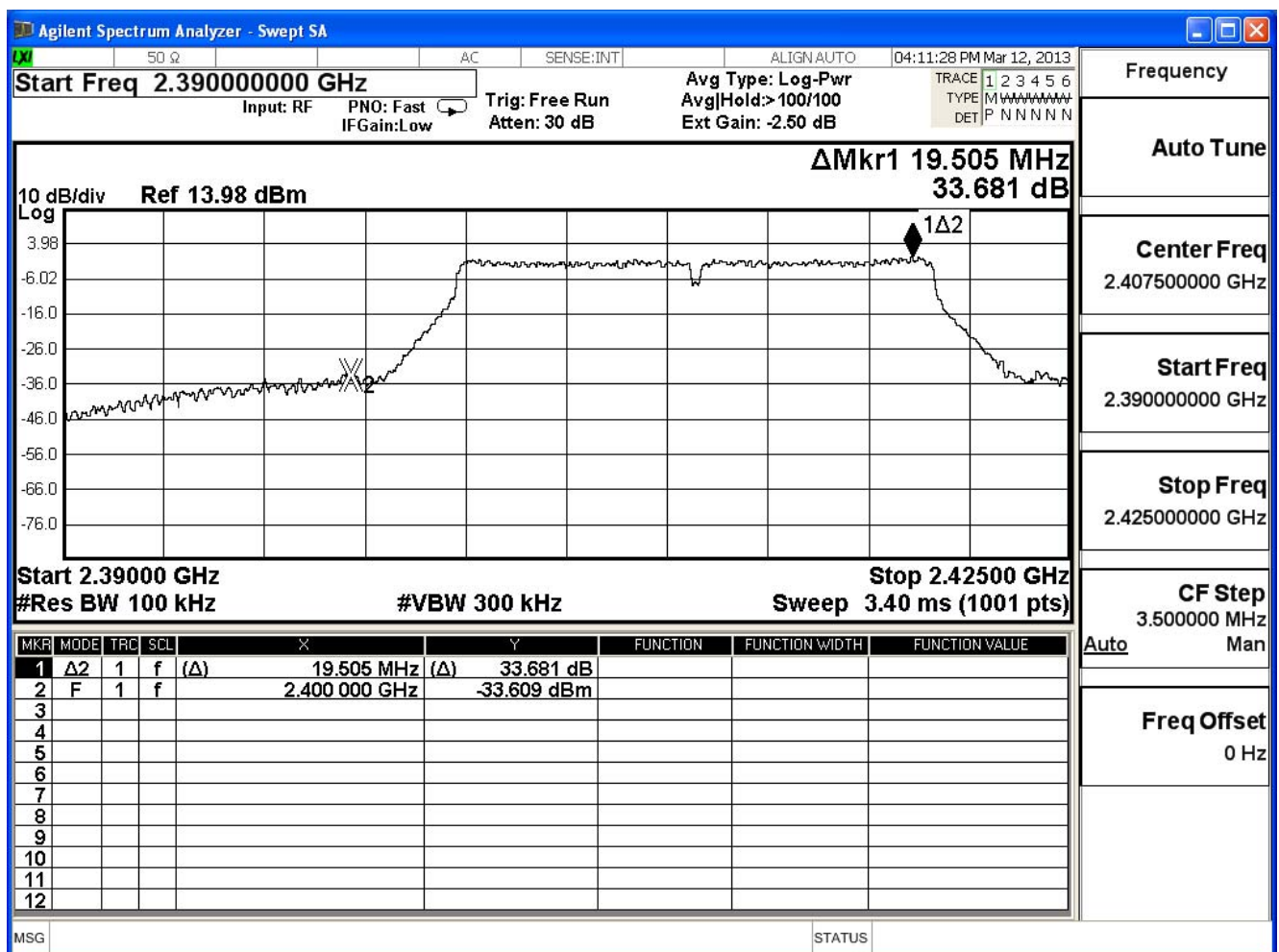
Channel 11 (2462MHz)



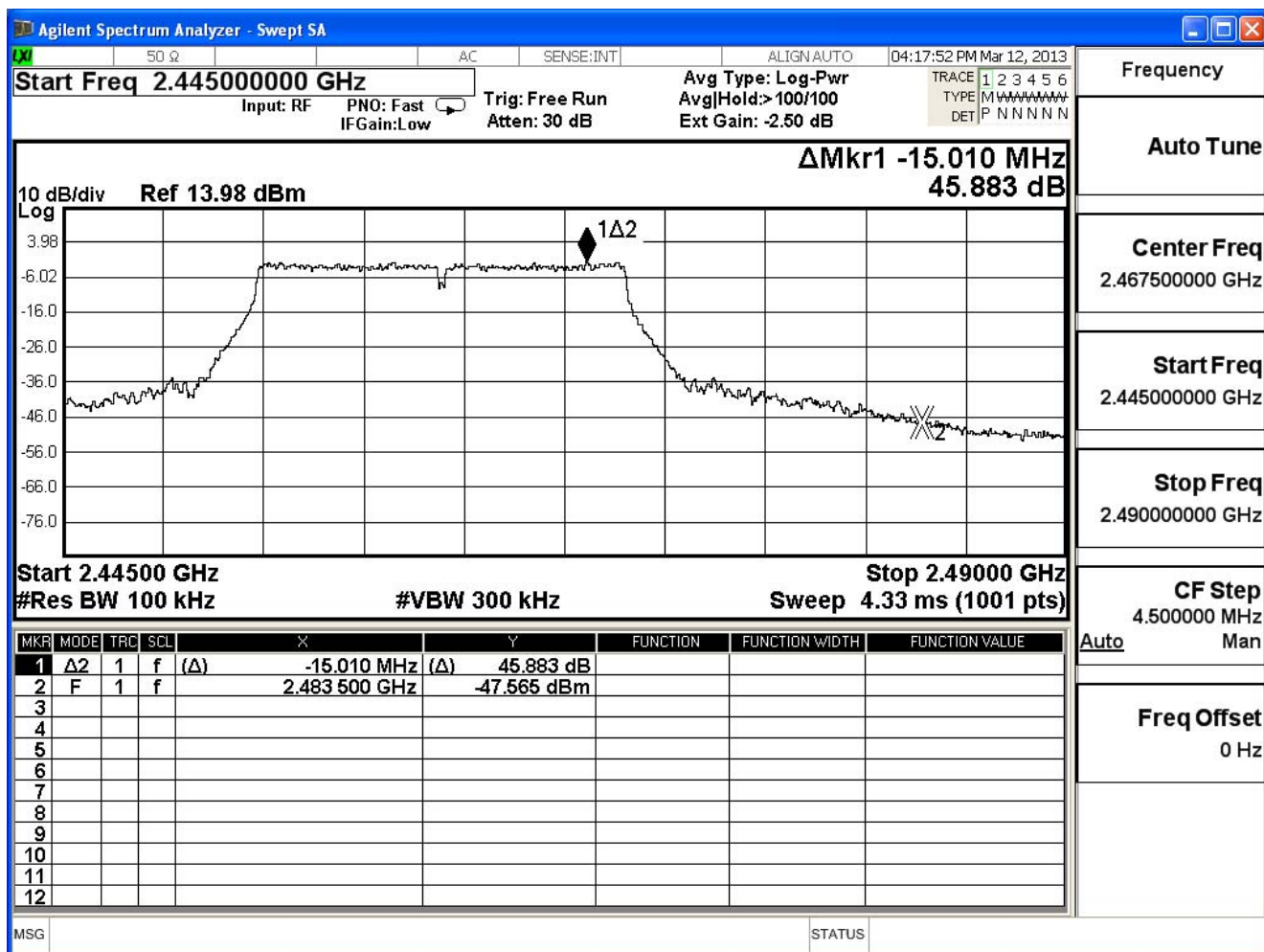
Product	Wireless-N300 Cloud Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit (DSA-12PFA-09)		
Date of Test	2013/03/12	Test Site	SR7

IEEE 802.11g, Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	33.681	≥20	Pass
11	2462	45.883	≥20	Pass

Channel 01 (2412MHz)



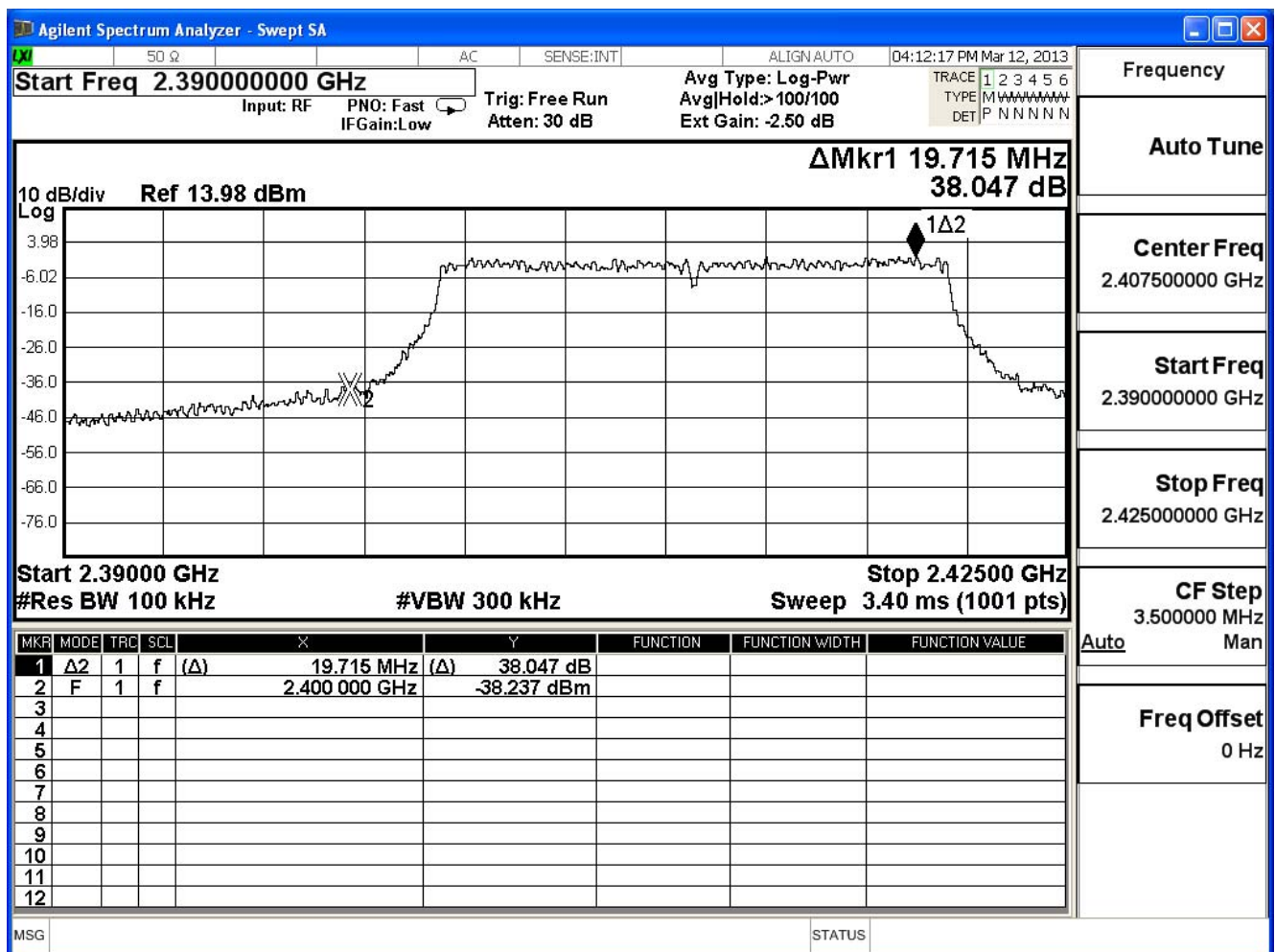
Channel 11 (2462MHz)



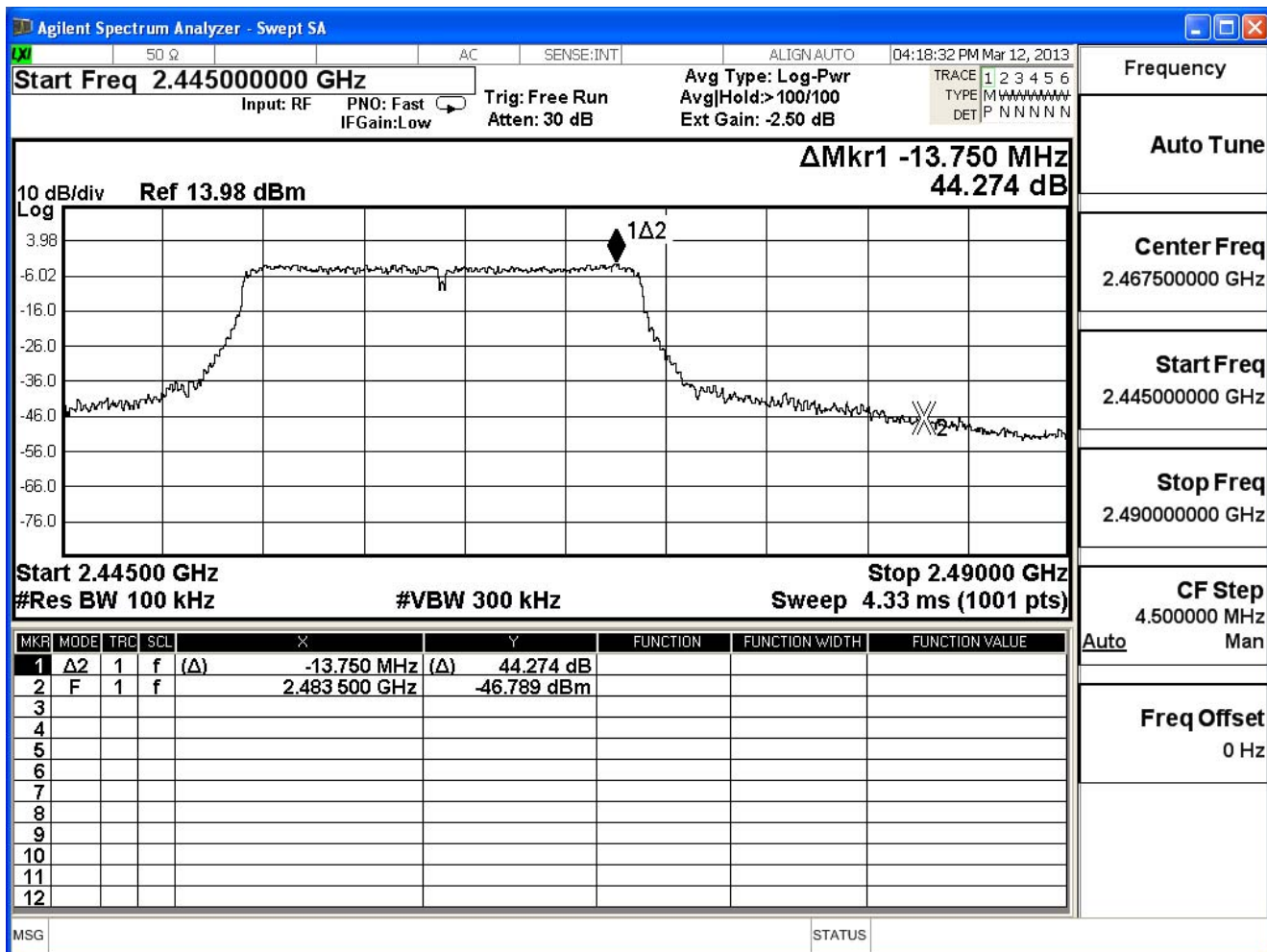
Product	Wireless-N300 Cloud Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit (DSA-12PFA-09)		
Date of Test	2013/03/12	Test Site	SR7

IEEE 802.11n (20MHz), (ANT 0) Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	38.047	≥20	Pass
11	2462	44.274	≥20	Pass

Channel 1 (2412MHz)



Channel 11 (2462MHz)

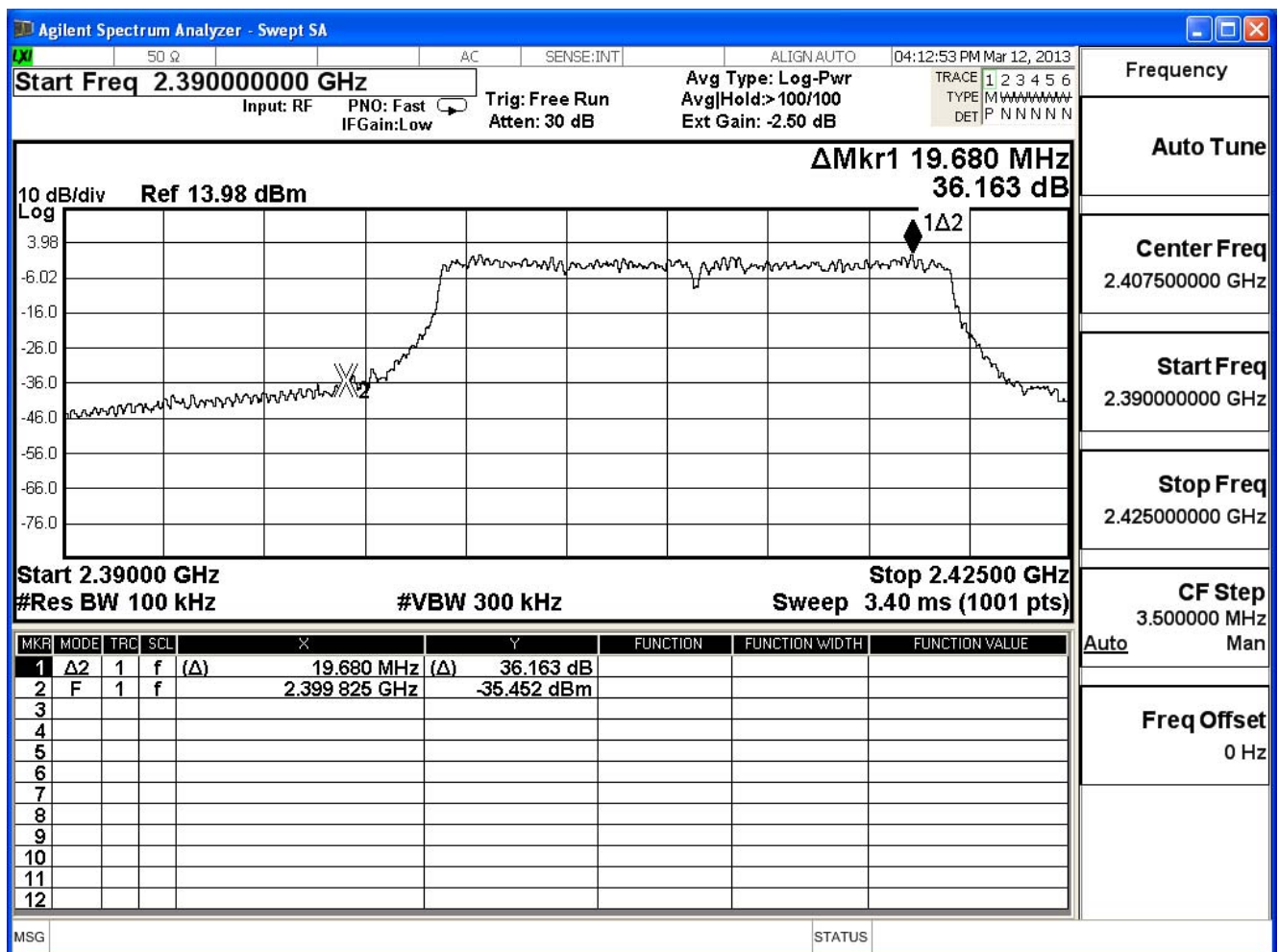


Product	Wireless-N300 Cloud Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit (DSA-12PFA-09)		
Date of Test	2013/03/12	Test Site	SR7

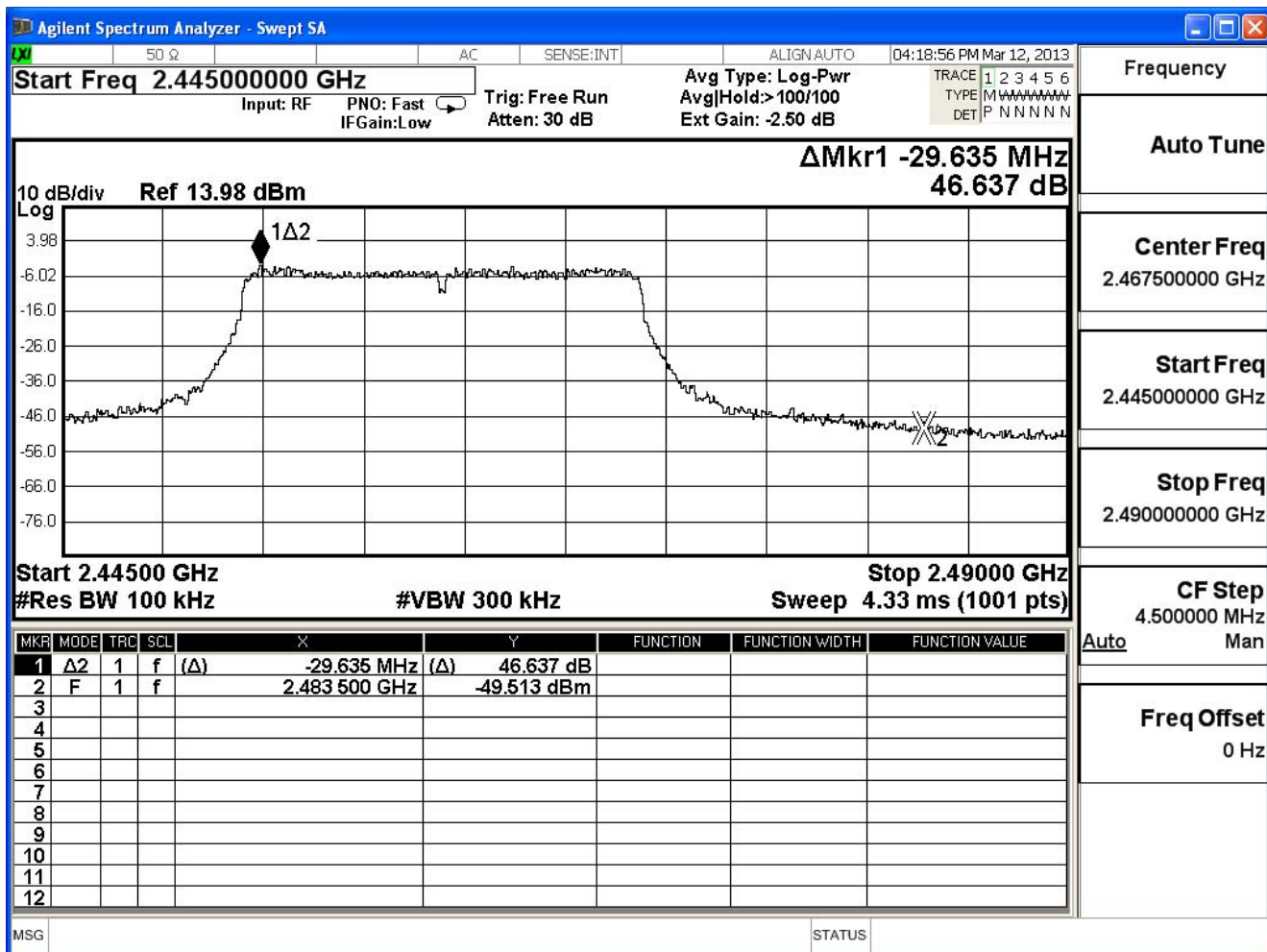
IEEE 802.11n (20MHz), (ANT 1) Duty Cycle: 1

Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	36.163	≥20	Pass
11	2462	46.637	≥20	Pass

Channel 1 (2412MHz)



Channel 11 (2462MHz)

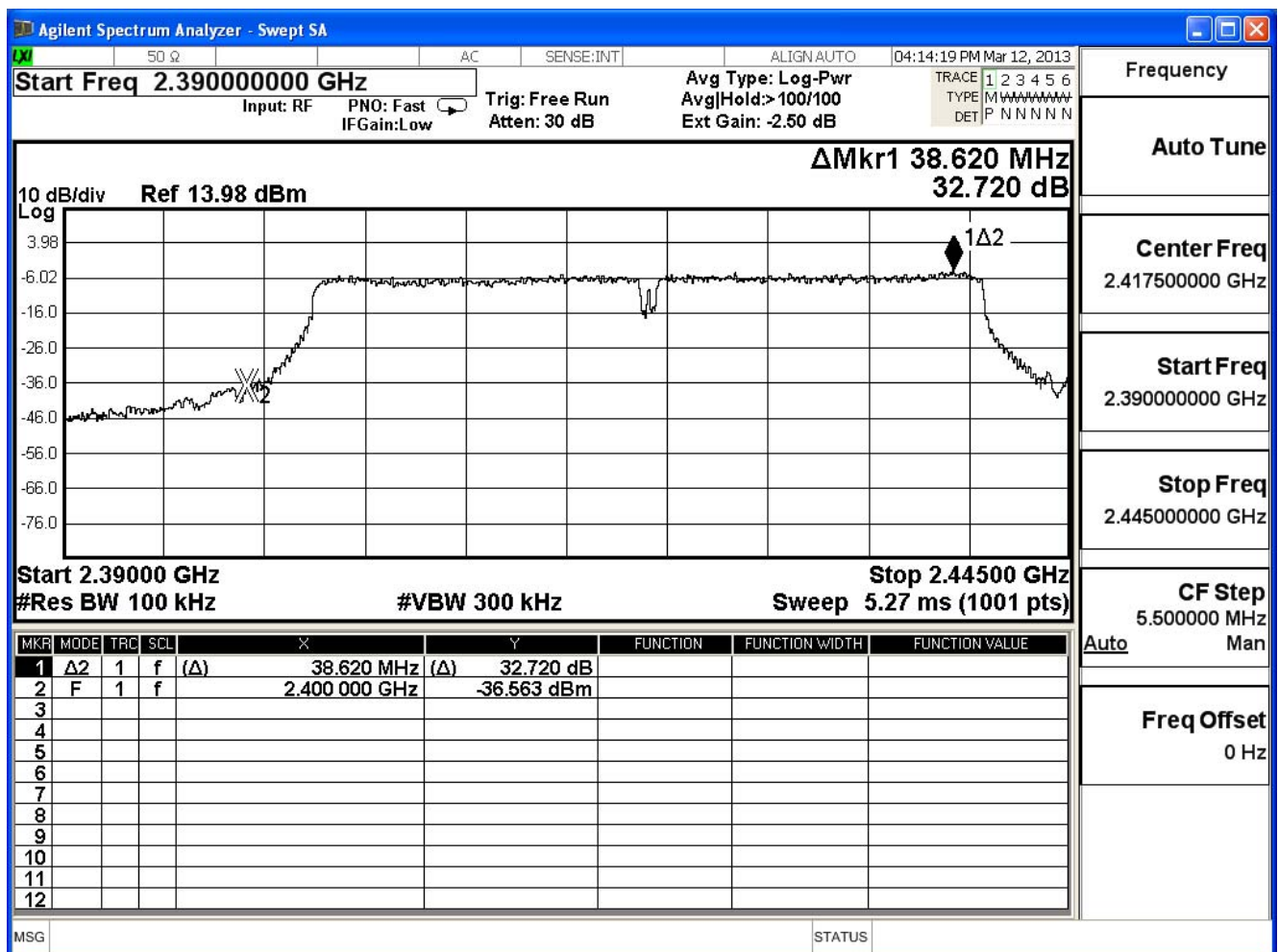


Product	Wireless-N300 Cloud Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit (DSA-12PFA-09)		
Date of Test	2013/03/12	Test Site	SR7

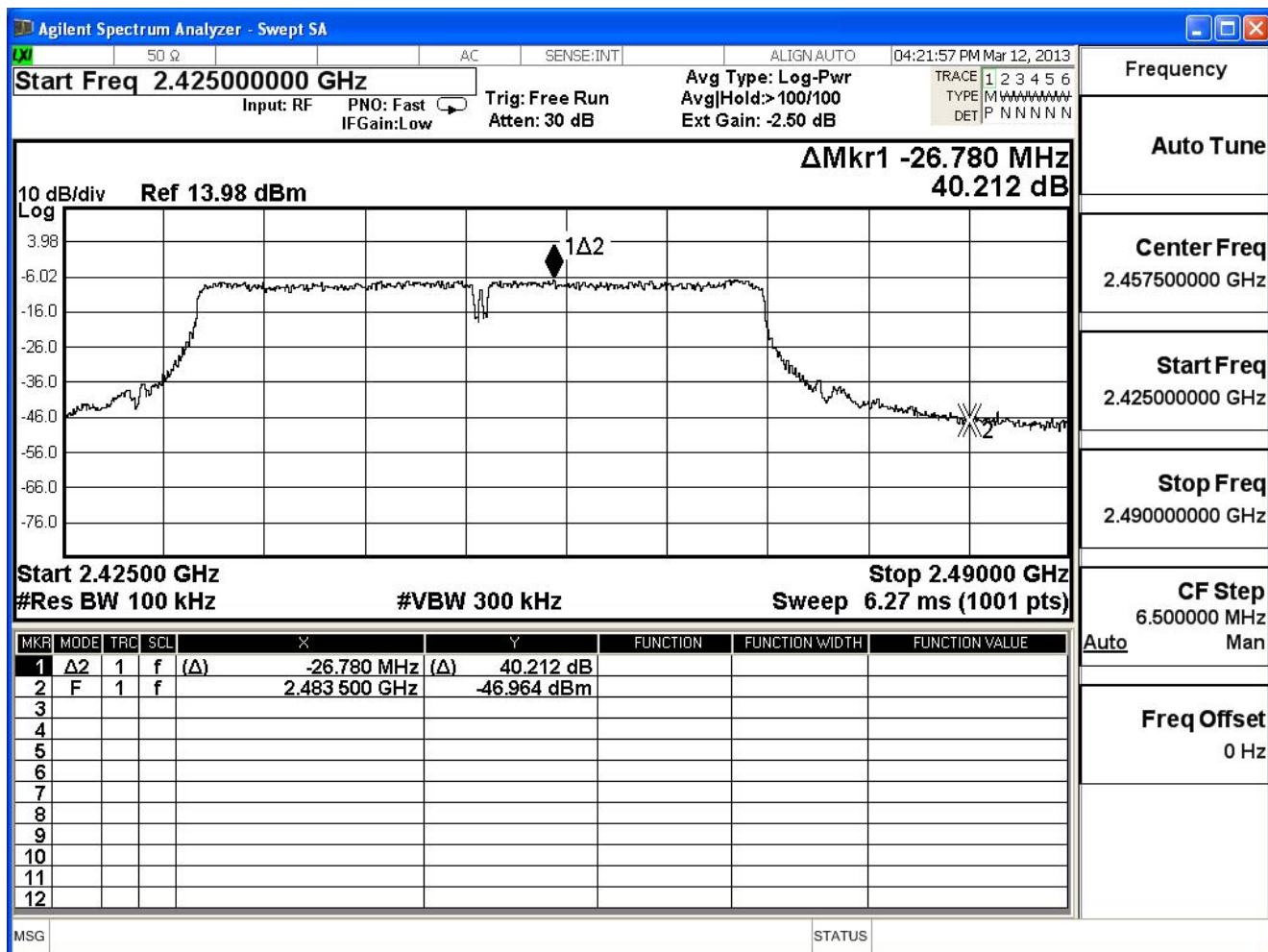
IEEE 802.11n (40MHz), (ANT 0) Duty Cycle: 1

Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	32.720	≥20	Pass
9	2452	40.212	≥20	Pass

Channel 3 (2422MHz)



Channel 9 (2452MHz)

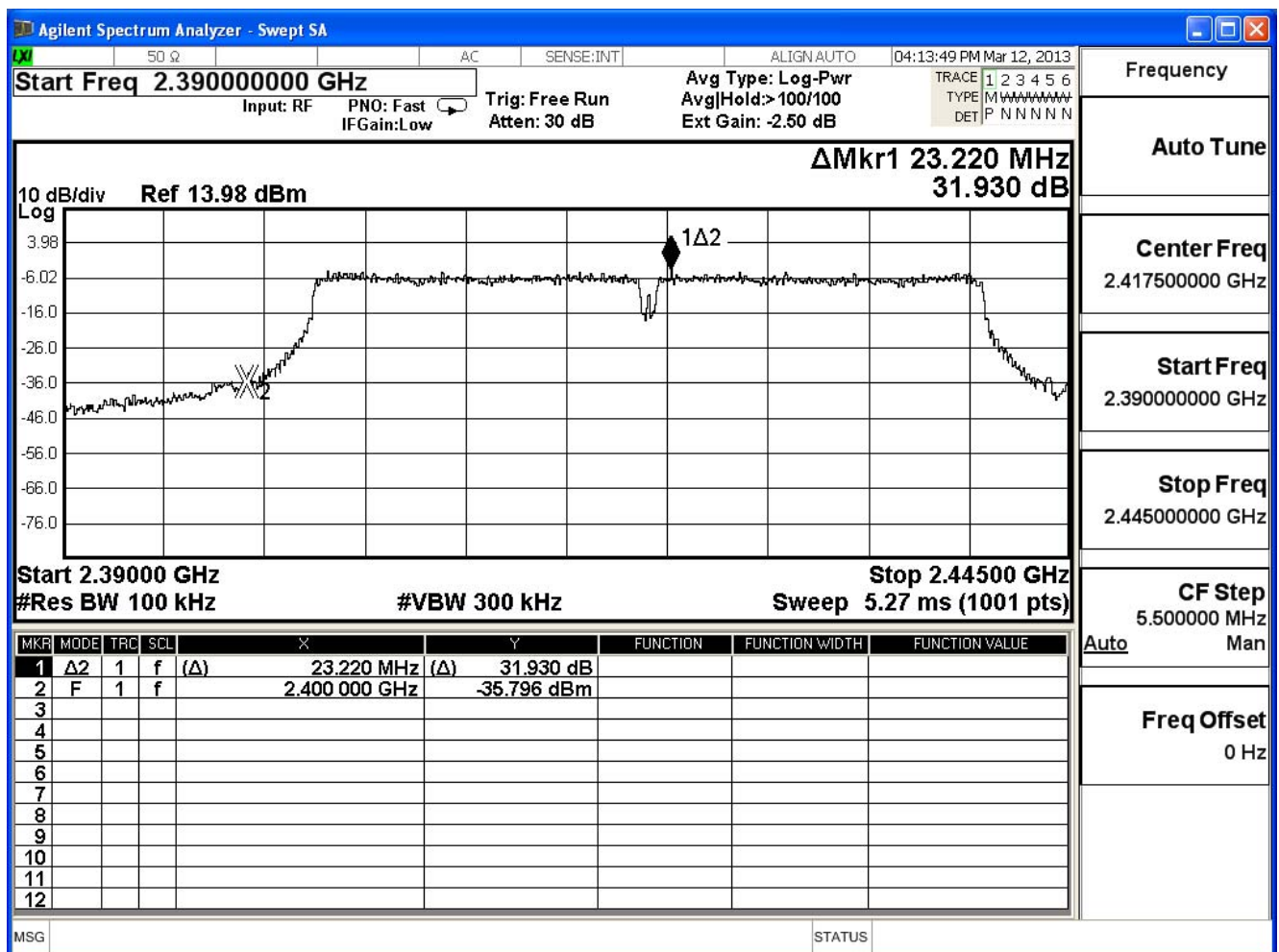


Product	Wireless-N300 Cloud Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit (DSA-12PFA-09)		
Date of Test	2013/03/12	Test Site	SR7

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

Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	31.930	≥20	Pass
9	2452	43.241	≥20	Pass

Channel 3 (2422MHz)



Channel 9 (2452MHz)

