FCC Test Report

Product Name : Wireless-AC1700 Dual Band Gigabit Router

Trade Name : ASUS

Model No. : RT-ACRH17, RT-AC1700

FCC ID. : MSQ-RTHD00

Applicant : ASUSTeK COMPUTER INC.

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

Date of Receipt : Apr. 20, 2016

Issued Date : Jul. 21, 2017

Report No. : 1770022R-RFUSP27V00

Report Version : V1.0

The test results relate only to the samples tested.
The test report shall not be reproduced except in full without the written approval of DEKRA Testing and Certification Co., Ltd..

Test Report Certification

Issued Date : Jul. 21, 2017
Report No. : 1770022R-RFUSP27V00

Product Name	:	Wireless-AC1700 Dual Band Gigabit Router
Applicant	:	ASUSTeK COMPUTER INC.
Address	:	4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan
Manufacturer	:	ASUSTeK COMPUTER INC.
Model No.	:	RT-ACRH17, RT-AC1700
FCC ID.	:	MSQ-RTHD00
EUT Test Voltage	:	AC 100-240V, 50-60Hz
Testing Voltage	:	AC 120V/60Hz
Trade Name	:	ASUS
Applicable Standard	:	FCC CFR Title 47 Part 15 Subpart C Section 15.247: 2015 ANSI C63.10: 2013
Laboratory Name	:	Hsin Chu Laboratory
Address	:	No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan TEL: +886-3-582-8001 / FAX: +886-3-582-8958
Test Result	:	Complied

Documented By : Lyla Yang

(Lyla Yang / Engineering Adm. Specialist)

Tested By : Scott Chang

(Scott Chang / Engineer)

Approved By : Roy Wang

(Roy Wang / Director)

Revision History

Report No.	Version	Description	Issued Date
1770022R-RFUSP27V00	V1.0	Initial issue of report	Jul. 21, 2017

Laboratory Information

We, **DEKRA Testing and Certification Co., Ltd.**, are an independent RF consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted (audited or listed) by the following related bodies in compliance with ISO 17025 specified testing scopes:

Taiwan R.O.C.	**:**	**TAF, Accreditation Number: 3024**
USA	**:**	**FCC, Registration Number: 0007939127**
Canada	**:**	**IC, Submission No: 181665** **IC Registration Number: 22397-1 / 22397-2 / 22397-3**

The related certificate for our laboratories about the test site and management system can be downloaded from DEKRA Testing and Certification Co., Ltd. Web Site:
http://www.dekra.com.tw/english/about/certificates.aspx?bval=5
The address and introduction of DEKRA Testing and Certification Co., Ltd. laboratories can be founded in our Web site : http://www.dekra.com.tw/index_en.aspx

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

1 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 : info.tw@dekra.com
2 No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan
TEL: +886-3-582-8001 / FAX: +886-3-582-8958 E-Mail : info.tw@dekra.com
3 No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan
TEL: +886-3-582-8001 / FAX: +886-3-582-8958 E-Mail : info.tw@dekra.com

TABLE OF CONTENTS

Description		Page
1.	General Information	7
1.1.	EUT Description	7
1.2.	Test Mode	11
1.3.	Tested System Details	12
1.4.	Configuration of tested System	12
1.5.	EUT Exercise Software	12
1.6.	Test Facility	13
2.	Conducted Emission	14
2.1.	Test Equipment	14
2.2.	Test Setup	14
2.3.	Limits	14
2.4.	Test Procedure	15
2.5.	Test Specification	15
2.6.	Uncertainty	15
2.7.	Test Result	16
3.	Peak Power Output	22
3.1.	Test Equipment	22
3.2.	Test Setup	22
3.3.	Test procedures	22
3.4.	Limits	22
3.5.	Test Specification	22
3.6.	Uncertainty	22
3.7.	Test Result	23
4.	Radiated Emission	43
4.1.	Test Equipment	43
4.2.	Test Setup	44
4.3.	Limits	45
4.4.	Test Procedure	45
4.5.	Test Specification	45
4.6.	Uncertainty	45
4.7.	Test Result	46
5.	RF antenna conducted test	84
5.1.	Test Equipment	84
5.2.	Test Setup	84
5.3.	Limits	85
5.4.	Test Procedure	85
5.5.	Test Specification	85
5.6.	Uncertainty	85
5.7.	Test Result	86

6. Radiated Emission Band Edge 122
6.1. Test Equipment 122
6.2. Test Setup 122
6.3. Limits 123
6.4. Test Procedure 123
6.5. Test Specification 123
6.6. Uncertainty 123
6.7. Test Result 124
7. DTS Bandwidth 172
7.1. Test Equipment 172
7.2. Test Setup 172
7.3. Test Procedures 172
7.4. Limits 172
7.5. Test Specification 172
7.6. Uncertainty 172
7.7. Test Result 173
8. Occupied Bandwidth 197
8.1. Test Equipment 197
8.2. Test Setup 197
8.3. Test Procedures 197
8.4. Limits 197
8.5. Test Specification 197
8.6. Uncertainty 197
8.7. Test Result 198
9. Power Density 222
9.1. Test Equipment 222
9.2. Test Setup 222
9.3. Limits 222
9.4. Test Procedures 222
9.5. Test Specification 222
9.6. Uncertainty 222
9.7. Test Result 223
Attachment 1 247
Test Setup Photograph 247
Attachment 2 255
EUT External Photograph 255
Attachment 3 257
EUT Internal Photograph 264

1. General Information

1.1. EUT Description

Product Name	Wireless-AC1700 Dual Band Gigabit Router	
Trade Name	ASUS	
Model No.	RT-ACRH17, RT-AC1700	
Frequency Range/ Channel Number	IEEE 802.11b/g/ IEEE 802.11n (20MHz)	2412~2462MHz / 11 Channels
	IEEE 802.11n (40MHz)	2422~2452MHz / 7Channels
Type of Modulation	IEEE 802.11b	Direct Sequence Spread Spectrum
	IEEE 802.11g/n	Orthogonal Frequency Division Multiplexing
Data Speed	IEEE 802.11b	1, 2, 5.5, 11Mbps
	IEEE 802.11g	6, 9, 18, 24, 36, 48, 54Mbps
	IEEE 802.11n	Support a subset of the combination of GI, MCS 0~MCS 16 and bandwidth defined in 802.11n

Antenna Information	
Antenna Type	Dipole
Antenna Gain	1.66dBi

Accessories Information	
LAN Cable	Non-Shielded, 1.5m
Power Adatper 1	Shenzhen Gongjin, S24B72-120A200-C4 I/P : 100-240V~ 50-60Hz Vax 0.8A O/P : 12V⎓ 2A Cable Out: Non-shielded, 1.5m
Power Adatper 2	SHENZHEN FRECOM, F24W5-120200SPAU I/P : 100-240V~ 50-60Hz O/P : 12V⎓ 2A Cable Out: Non-shielded, 1.6m
Power Adatper 3	Asian Power Devices Inc., WA-24Q12FU I/P : 100-240V~ 50-60Hz O/P : 12V⎓ 2A Cable Out: Non-shielded, 1.85m

ANT-TX / RX & Bandwidth

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

IEEE 802.11n

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

Table 1 – MCS parameters for TX Antenna number = 1

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

Table 2 – MCS parameters for TX Antenna number = 2

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

IEEE 802.11b/g & IEEE 802.11n (20MHz)

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)

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-AC1700 Dual Band Gigabit Router including 2.4GHz b/g/n and 5GHz a/n/ac transmitting and receiving function.
2. These test results on a sample of the device are for the purpose of demonstrating Compliance with Part 15 Subpart C Paragraph 15.247.
3. Regards to the frequency band operation; the lowest、middle and highest frequency of channel were selected to perform the test, and then shown on this report.
4. The function of the 5G transmitting is measured and makes a test report of the number: 1770022R-RFUSP45V00.
5. This device is a composite device in accordance with Part 15 regulations. The receiving function was tested and its number is 1770022R-RFUSP01V00.

1.2. Test Mode

DEKRA 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: TX_CDD Mode (11b/g)_ ADP1 Mode 2: TX_Beamforming Mode (11 n20/n40)_ ADP1 Mode 3: TX_CDD Mode (11b/g)_ ADP2 Mode 4: TX_Beamforming Mode (11 n20/n40)_ ADP2 Mode 5: TX_CDD Mode (11b/g)_ ADP3 Mode 6: TX_Beamforming Mode (11 n20/n40)_ ADP3

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

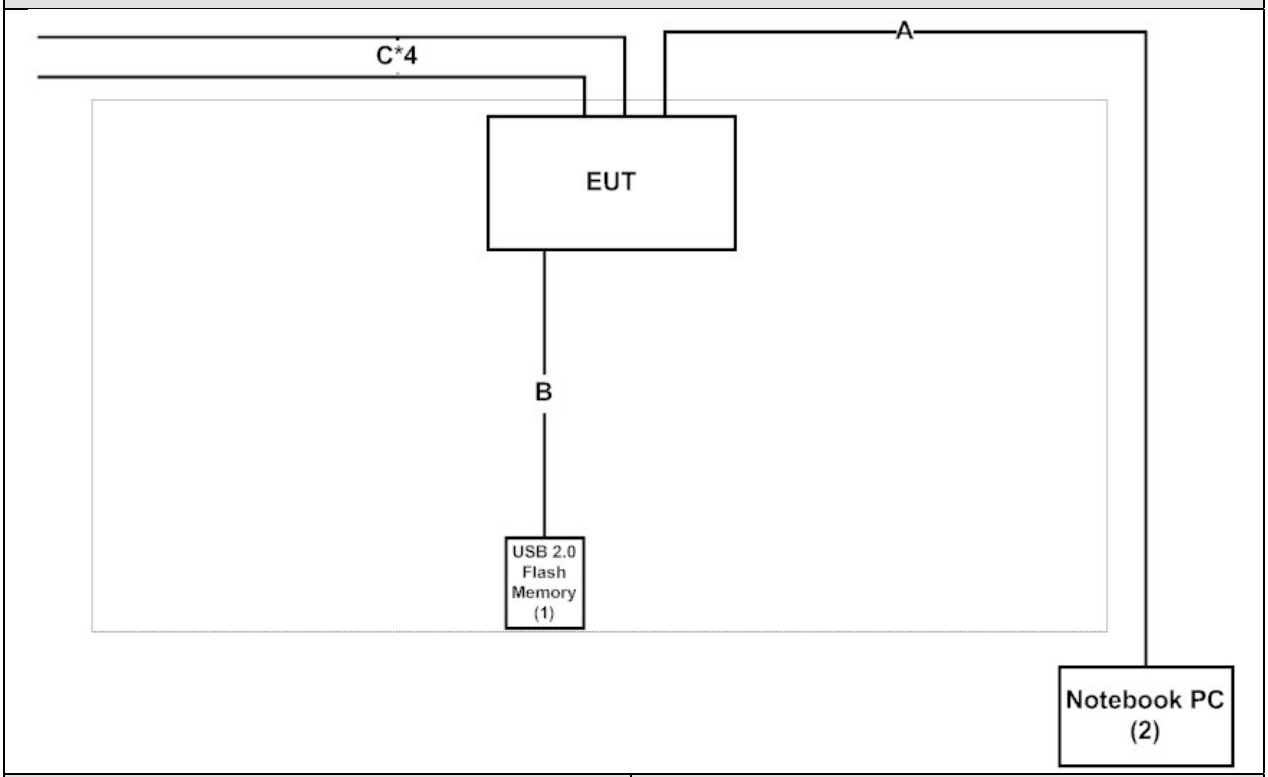
1.3. Tested System Details

The types for all equipment, 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	Notebook PC	ACER	MS2296	LUSCV021391 150332C2000	DoC	Non-Shielded, 2.5m one ferrite core bonded

1.4. Configuration of tested System

Connection Diagram



Signal Cable Type		Signal cable Description
A	LAN Cable	Non-Shielded, 4m
B	USB 2.0 Flash Memory Cable	Non-Shielded, 1m
C	LAN Cable	Non-Shielded, 4m, 4PCS

1.5. EUT Exercise Software

1	Setup the EUT as shown in Section 1.4.
2	Execute the “MTool 2.0.0.7” on the EUT.
3	Configure the test mode, the test channel, and the data rate.
4	Press “Start RX” to start the continuous transmitting.
5	Verify that the EUT works properly.

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	Required (IEC 68-1)	Actual	Test Site
Temperature (°C)	FCC PART 15 C 15.207 Conducted Emission	15 - 35	20	3
Humidity (%RH)		25 - 75	50	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Peak Power Output	15 - 35	25	1
Humidity (%RH)		25 - 75	45	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Radiated Emission	15 - 35	25	1/2
Humidity (%RH)		25 - 75	65	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 RF antenna conducted test	15 - 35	25	1
Humidity (%RH)		25 - 75	45	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Band Edge	15 - 35	25	1
Humidity (%RH)		25 - 75	48	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Occupied Bandwidth	15 - 35	25	1
Humidity (%RH)		25 - 75	45	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Power Density	15 - 35	25	1
Humidity (%RH)		25 - 75	45	
Barometric pressure (mbar)		860 - 1060	950-1000	

Note: Test site information refers to Laboratory Information.

2. Conducted Emission

2.1. Test Equipment

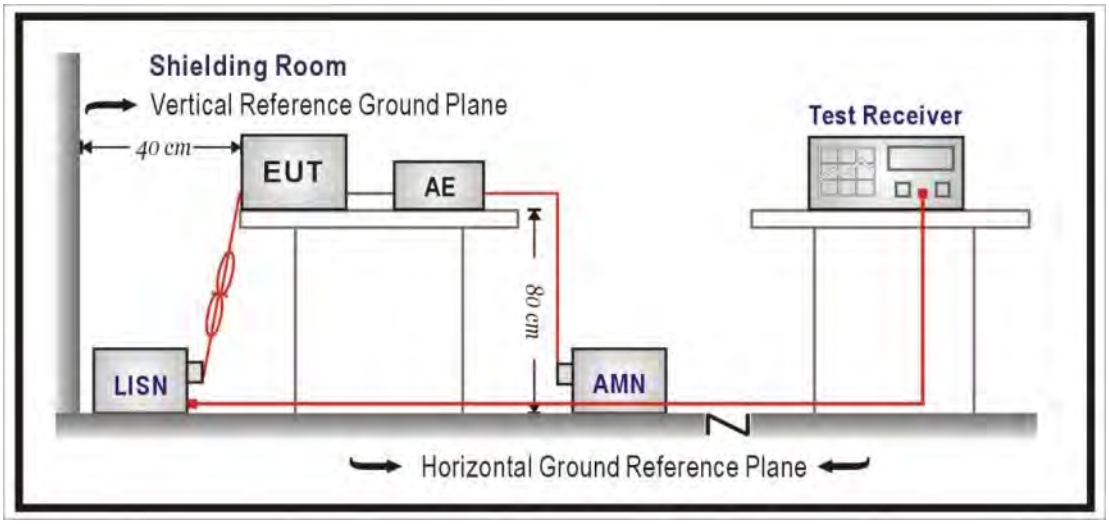
The following test equipment are used during the test:

Conducted Emission / SR2-H

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Artificial Mains Network	R&S	ENV4200	848411/010	2018/02/05
LISN	R&S	ENV216	100092	2017/08/16
Test Receiver	R&S	ESCS 30	836858/022	2018/01/14

Note: All equipment 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: 2013 and tested according to DTS test procedure of KDB558074 for compliance to FCC 47CFR 15.247 requirements.
The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs.)
Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

2.5. Test Specification

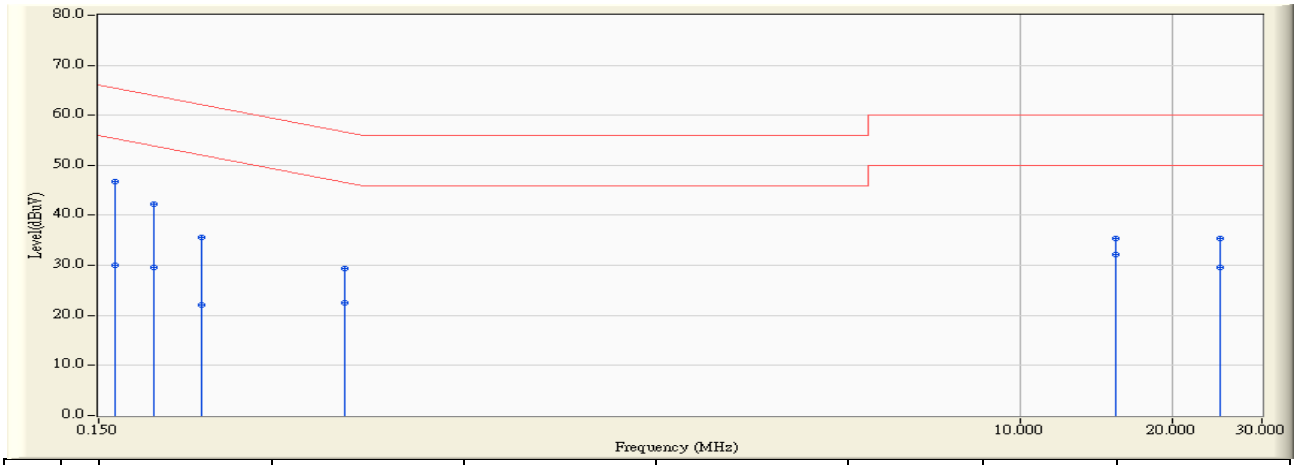
According to FCC Part 15 Subpart C Paragraph 15.207: 2015

2.6. Uncertainty

The measurement uncertainty is defined as ± 2.26 dB.

2.7. Test Result

Site : SR2-H	**Time : 2017/07/05**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR2-H_LISN(16A)-6_0712 - Line1	**Power : AC 120V/60Hz**
EUT : Wireless-AC1700 Dual Band Gigabit Router	**Note : Mode 2: TX_Beamforming Mode (11 n20/n40)_ ADP1_ 802.11n(40M)_2437MHz**

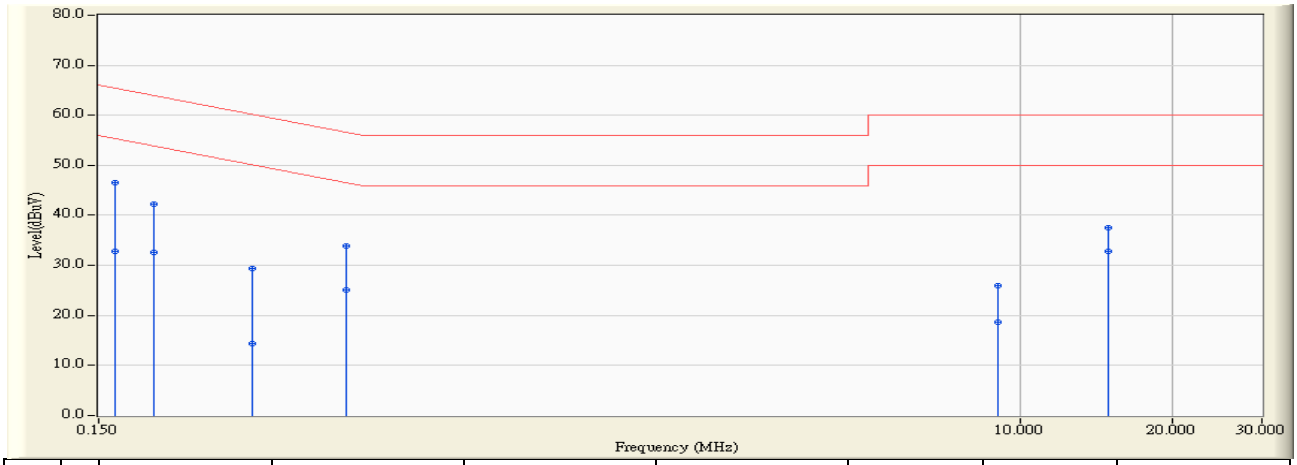


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.162	9.754	37.060	46.814	-18.561	65.375	QUASIPEAK
2		0.162	9.754	20.240	29.994	-25.381	55.375	AVERAGE
3		0.193	9.751	32.450	42.201	-21.707	63.908	QUASIPEAK
4		0.193	9.751	19.860	29.611	-24.297	53.908	AVERAGE
5		0.240	9.746	25.910	35.656	-26.446	62.102	QUASIPEAK
6		0.240	9.746	12.350	22.096	-30.006	52.102	AVERAGE
7		0.459	9.729	19.610	29.339	-27.379	56.718	QUASIPEAK
8		0.459	9.729	12.840	22.569	-24.149	46.718	AVERAGE
9		15.408	10.230	25.060	35.290	-24.710	60.000	QUASIPEAK
10	*	15.408	10.230	21.960	32.190	-17.810	50.000	AVERAGE
11		24.759	10.321	24.970	35.291	-24.709	60.000	QUASIPEAK
12		24.759	10.321	19.190	29.511	-20.489	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-H	**Time : 2017/07/05**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR2-H_LISN(16A)-6_0712 - Line2	**Power : AC 120V/60Hz**
EUT : Wireless-AC1700 Dual Band Gigabit Router	**Note : Mode 2: TX_Beamforming Mode (11 n20/n40)_ ADP1_ 802.11n(40M)_2437MHz**

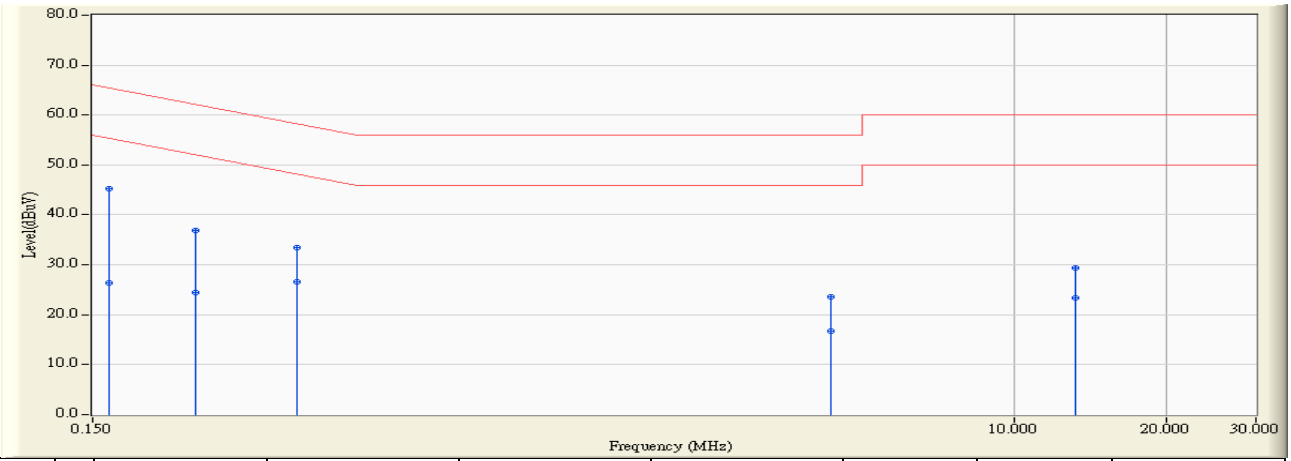


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.162	9.754	36.780	46.534	-18.841	65.375	QUASIPEAK
2		0.162	9.754	23.070	32.824	-22.551	55.375	AVERAGE
3		0.193	9.751	32.530	42.281	-21.627	63.908	QUASIPEAK
4		0.193	9.751	22.750	32.501	-21.407	53.908	AVERAGE
5		0.302	9.750	19.610	29.360	-30.818	60.178	QUASIPEAK
6		0.302	9.750	4.530	14.280	-35.898	50.178	AVERAGE
7		0.463	9.747	24.060	33.807	-22.841	56.648	QUASIPEAK
8		0.463	9.747	15.240	24.987	-21.661	46.648	AVERAGE
9		9.009	10.092	15.850	25.942	-34.058	60.000	QUASIPEAK
10		9.009	10.092	8.480	18.572	-31.428	50.000	AVERAGE
11		14.900	10.307	27.140	37.447	-22.553	60.000	QUASIPEAK
12	*	14.900	10.307	22.440	32.747	-17.253	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-H	**Time : 2017/07/20**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR2-H_LISN(16A)-6_0712 - Line1	**Power : AC 120V/60Hz**
EUT : Wireless-AC1700 Dual Band Gigabit Router	**Note : Mode 4: TX_Beamforming Mode (11 n20/n40)_ ADP2_ 802.11n(40M)_2437MHz**

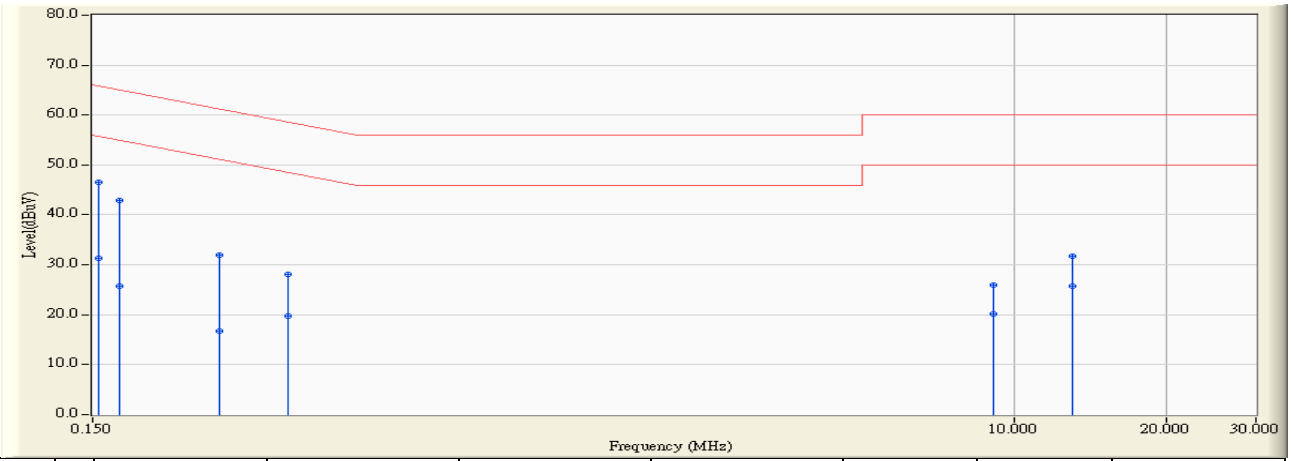


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.162	9.754	35.600	45.354	-20.021	65.375	QUASIPEAK
2		0.162	9.754	16.520	26.274	-29.101	55.375	AVERAGE
3		0.240	9.746	27.180	36.926	-25.176	62.102	QUASIPEAK
4		0.240	9.746	14.670	24.416	-27.686	52.102	AVERAGE
5		0.380	9.732	23.690	33.422	-24.847	58.269	QUASIPEAK
6		0.380	9.732	16.820	26.552	-21.717	48.269	AVERAGE
7		4.330	9.921	13.570	23.491	-32.509	56.000	QUASIPEAK
8		4.330	9.921	6.820	16.741	-29.259	46.000	AVERAGE
9		13.209	10.188	19.230	29.418	-30.582	60.000	QUASIPEAK
10		13.209	10.188	13.290	23.478	-26.522	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-H	**Time : 2017/07/20**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR2-H_LISN(16A)-6_0712 - Line2	**Power : AC 120V/60Hz**
EUT : Wireless-AC1700 Dual Band Gigabit Router	**Note : Mode 4: TX_Beamforming Mode (11 n20/n40)_ ADP2_ 802.11n(40M)_2437MHz**

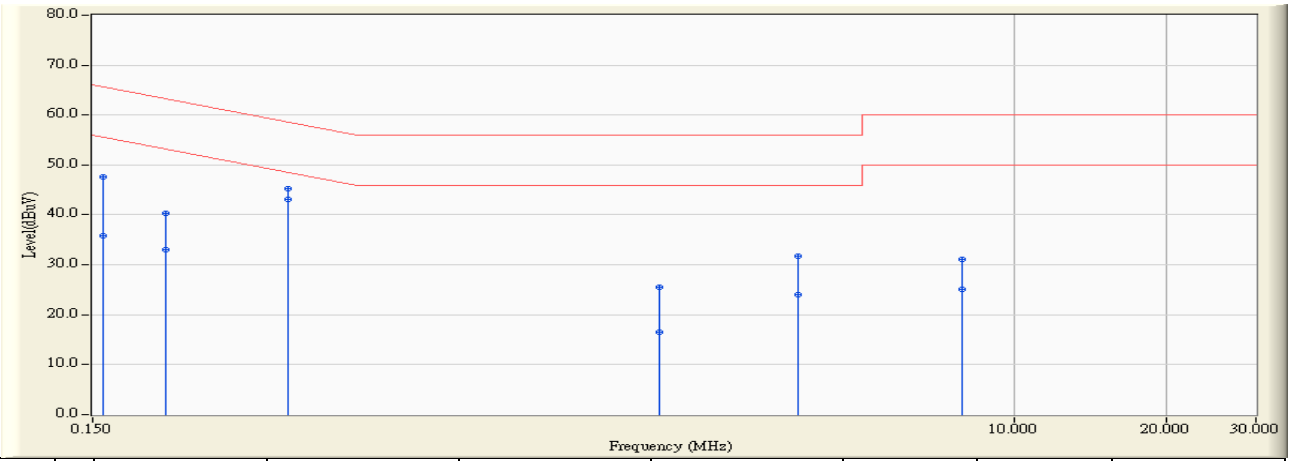


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.154	9.747	36.880	46.626	-19.160	65.786	QUASIPEAK
2		0.154	9.747	21.580	31.326	-24.460	55.786	AVERAGE
3		0.170	9.753	33.220	42.973	-22.010	64.983	QUASIPEAK
4		0.170	9.753	15.930	25.683	-29.300	54.983	AVERAGE
5		0.267	9.750	22.140	31.890	-29.315	61.205	QUASIPEAK
6		0.267	9.750	6.920	16.670	-34.535	51.205	AVERAGE
7		0.365	9.750	18.380	28.130	-30.487	58.617	QUASIPEAK
8		0.365	9.750	9.890	19.640	-28.977	48.617	AVERAGE
9		9.080	10.096	15.810	25.906	-34.094	60.000	QUASIPEAK
10		9.080	10.096	10.090	20.186	-29.814	50.000	AVERAGE
11		13.029	10.247	21.520	31.767	-28.233	60.000	QUASIPEAK
12		13.029	10.247	15.590	25.837	-24.163	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-H	**Time : 2017/07/20**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR2-H_LISN(16A)-6_0712 - Line1	**Power : AC 120V/60Hz**
EUT : Wireless-AC1700 Dual Band Gigabit Router	**Note : Mode 6: TX_Beamforming Mode (11 n20/n40)_ ADP3_ 802.11n(40M)_2437MHz**

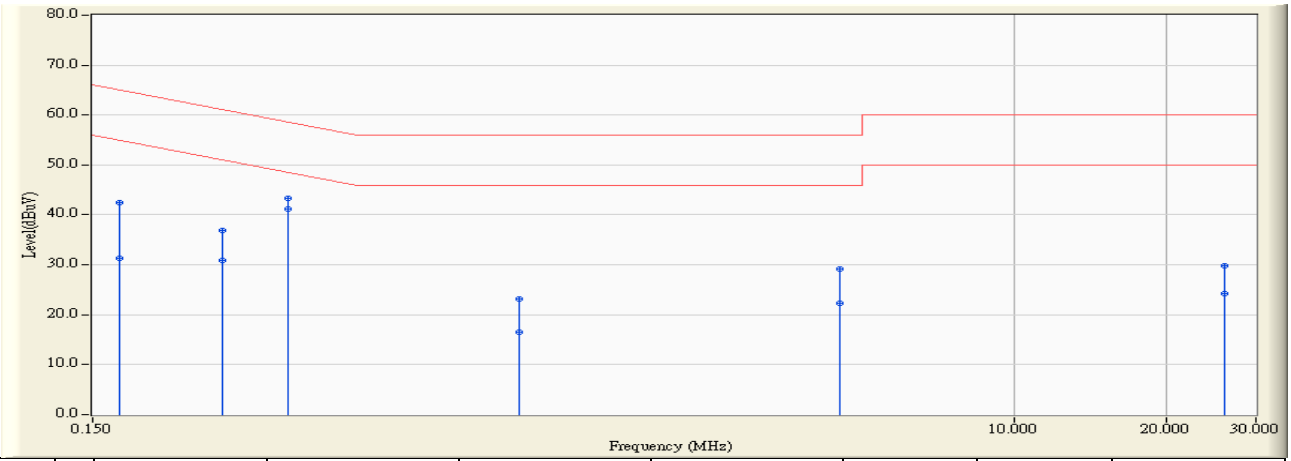


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.158	9.751	37.780	47.531	-18.047	65.578	QUASIPEAK
2		0.158	9.751	26.040	35.791	-19.787	55.578	AVERAGE
3		0.209	9.749	30.630	40.379	-22.882	63.261	QUASIPEAK
4		0.209	9.749	23.380	33.129	-20.132	53.261	AVERAGE
5		0.365	9.734	35.510	45.244	-13.374	58.617	QUASIPEAK
6	*	0.365	9.734	33.440	43.174	-5.444	48.617	AVERAGE
7		1.986	9.859	15.770	25.629	-30.371	56.000	QUASIPEAK
8		1.986	9.859	6.620	16.479	-29.521	46.000	AVERAGE
9		3.728	9.912	21.810	31.722	-24.278	56.000	QUASIPEAK
10		3.728	9.912	14.140	24.052	-21.948	46.000	AVERAGE
11		7.888	10.042	20.960	31.002	-28.998	60.000	QUASIPEAK
12		7.888	10.042	14.960	25.002	-24.998	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-H	**Time : 2017/07/20**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR2-H_LISN(16A)-6_0712 - Line2	**Power : AC 120V/60Hz**
EUT : Wireless-AC1700 Dual Band Gigabit Router	**Note : Mode 6: TX_Beamforming Mode (11 n20/n40)_ ADP3_ 802.11n(40M)_2437MHz**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.170	9.753	32.680	42.433	-22.550	64.983	QUASIPEAK
2		0.170	9.753	21.600	31.353	-23.630	54.983	AVERAGE
3		0.271	9.750	27.140	36.890	-24.194	61.084	QUASIPEAK
4		0.271	9.750	21.120	30.870	-20.214	51.084	AVERAGE
5		0.365	9.750	33.660	43.410	-15.207	58.617	QUASIPEAK
6	*	0.365	9.750	31.530	41.280	-7.337	48.617	AVERAGE
7		1.048	9.821	13.380	23.201	-32.799	56.000	QUASIPEAK
8		1.048	9.821	6.720	16.541	-29.459	46.000	AVERAGE
9		4.494	9.849	19.290	29.139	-26.861	56.000	QUASIPEAK
10		4.494	9.849	12.460	22.309	-23.691	46.000	AVERAGE
11		26.099	10.567	19.200	29.767	-30.233	60.000	QUASIPEAK
12		26.099	10.567	13.710	24.277	-25.723	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

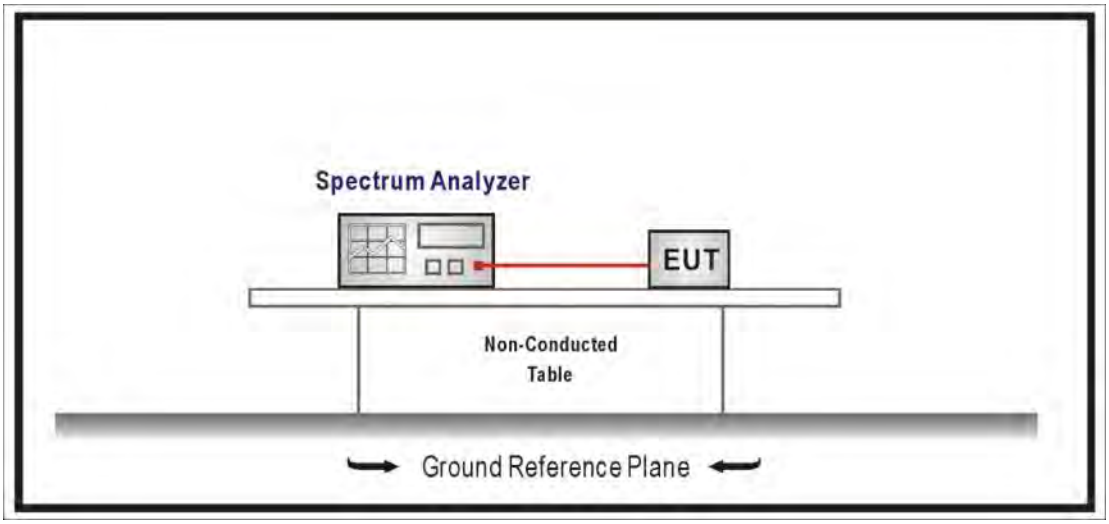
The following test equipment are used during the test:

Peak Power / SR7

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

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

3.2. Test Setup



3.3. Test procedures

The EUT was tested according to DTS test procedure section 9.1.2 of KDB558074 v03r05, Measurement to FCC 47CFR 15.247 requirements.

3.4. Limits

The maximum peak power shall be less 1 Watt.

3.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2015

3.6. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB.

3.7. Test Result

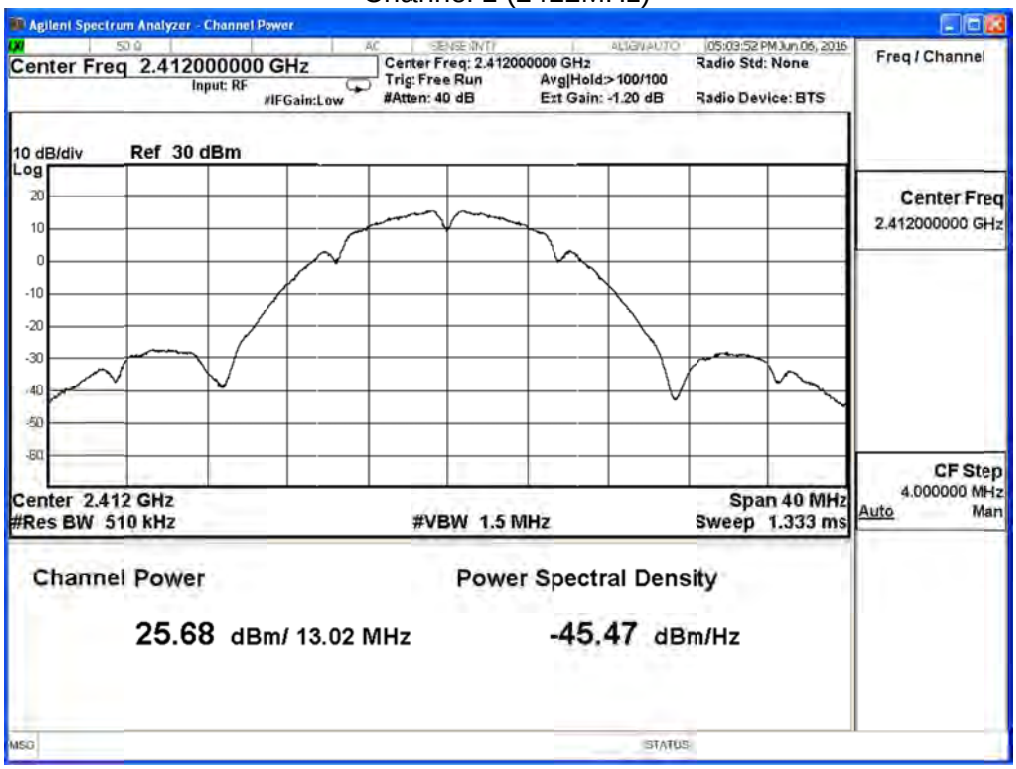
Product	Wireless-AC1700 Dual Band Gigabit Router		
Test Item	Peak Power Output		
Test Mode	Mode 1: TX_CDD Mode (11b/g)_ ADP1		
Date of Test	2016/06/14	Test Site	SR7

IEEE 802.11b (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	25.68	≦30
6	2437	25.62	≦30
11	2462	25.84	≦30

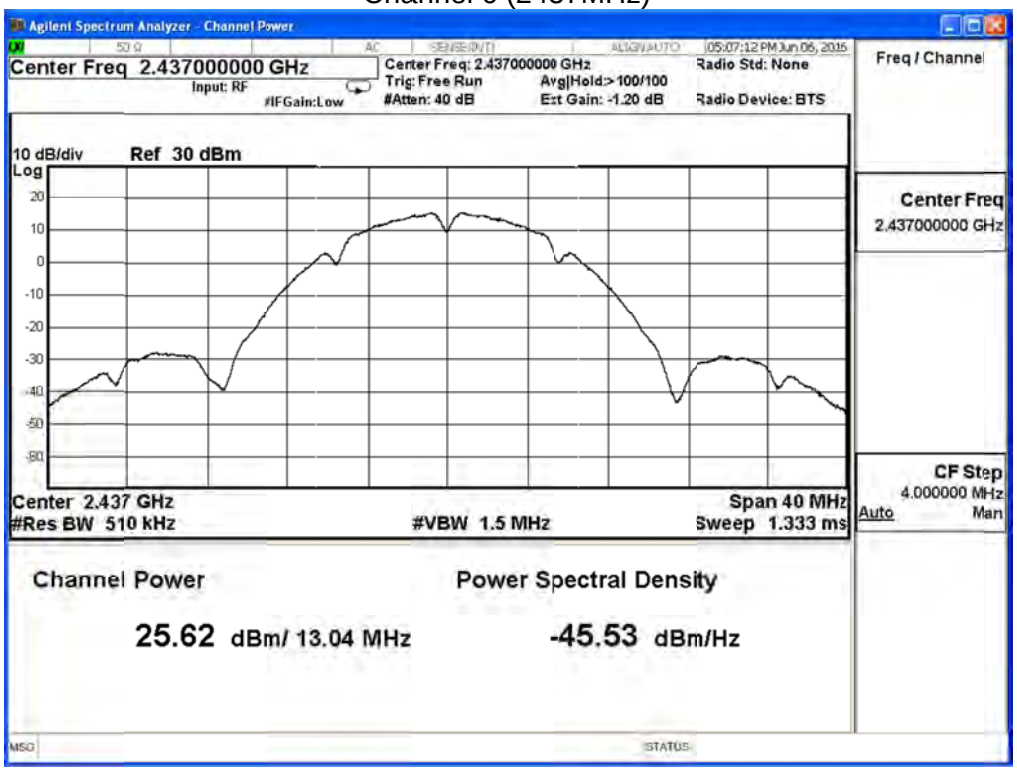
The worst emission of data rate is 1 Mbps

Peak Power Output (dBm)						
Channel No	Frequency (MHz)	Data Rate (Mbps)				Required Limit
		1	2	5.5	11	
1	2412	25.68	--	--	--	≦30
6	2437	25.62	25.55	25.42	25.33	≦30
11	2462	25.84	--	--	--	≦30

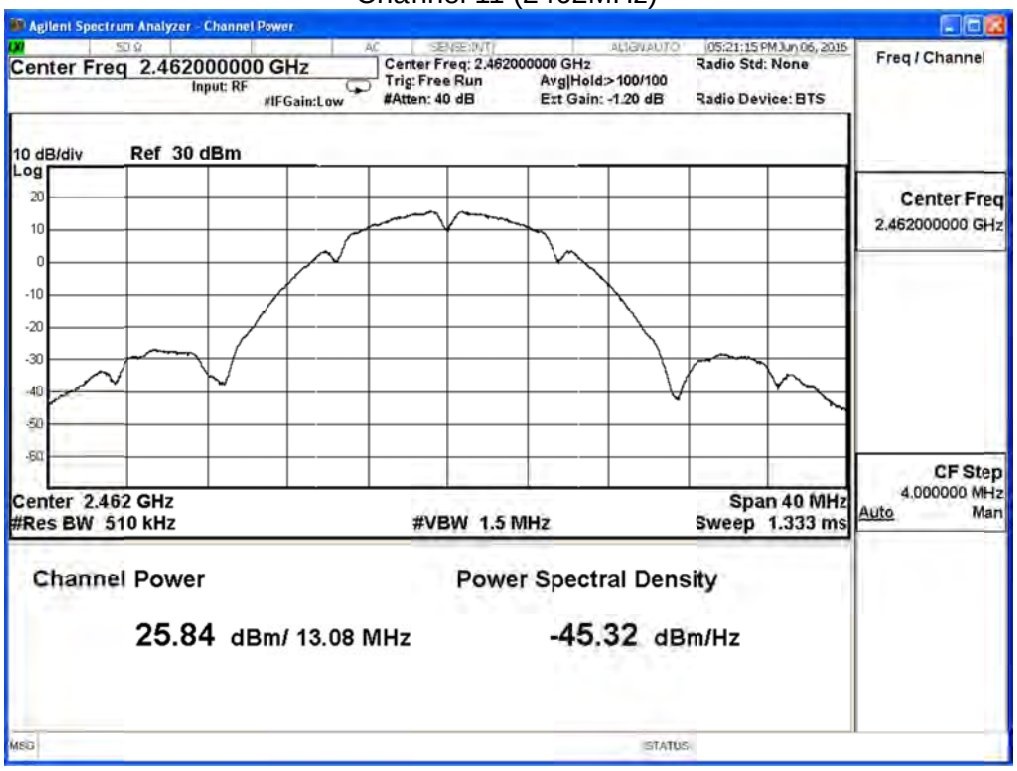
Channel 1 (2412MHz)



Channel 6 (2437MHz)



Channel 11 (2462MHz)



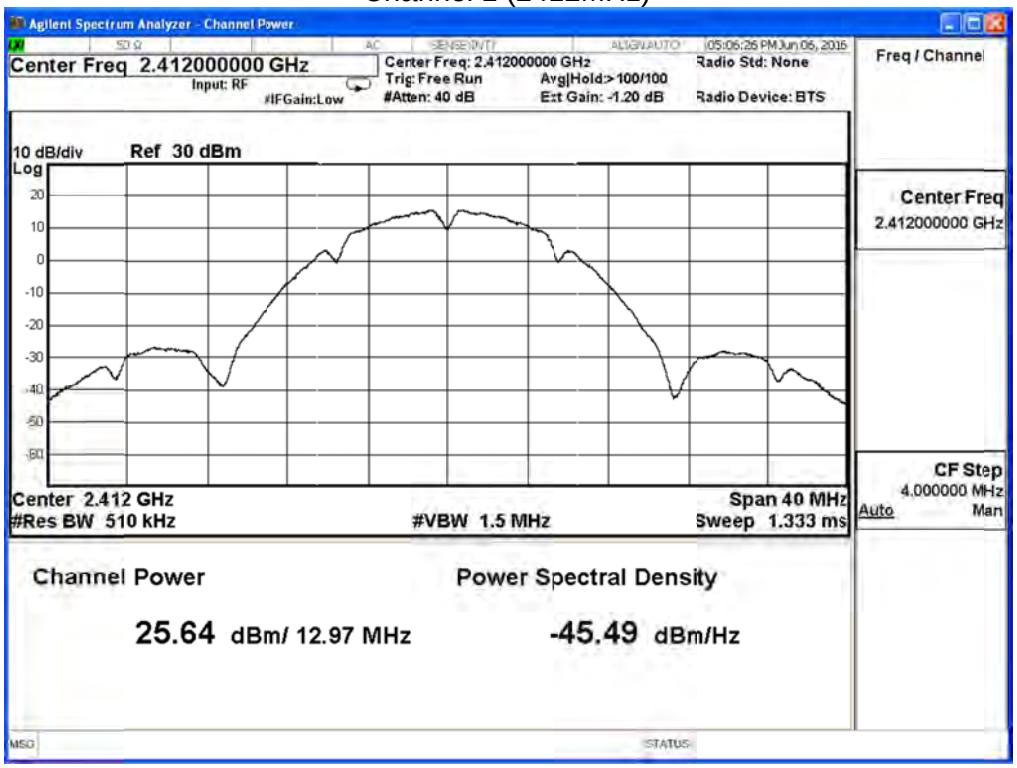
Product	Wireless-AC1700 Dual Band Gigabit Router		
Test Item	Peak Power Output		
Test Mode	Mode 1: TX_CDD Mode (11b/g)_ ADP1		
Date of Test	2016/06/14	Test Site	SR7

IEEE 802.11b (ANT 1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	25.64	≦30
6	2437	25.72	≦30
11	2462	25.81	≦30

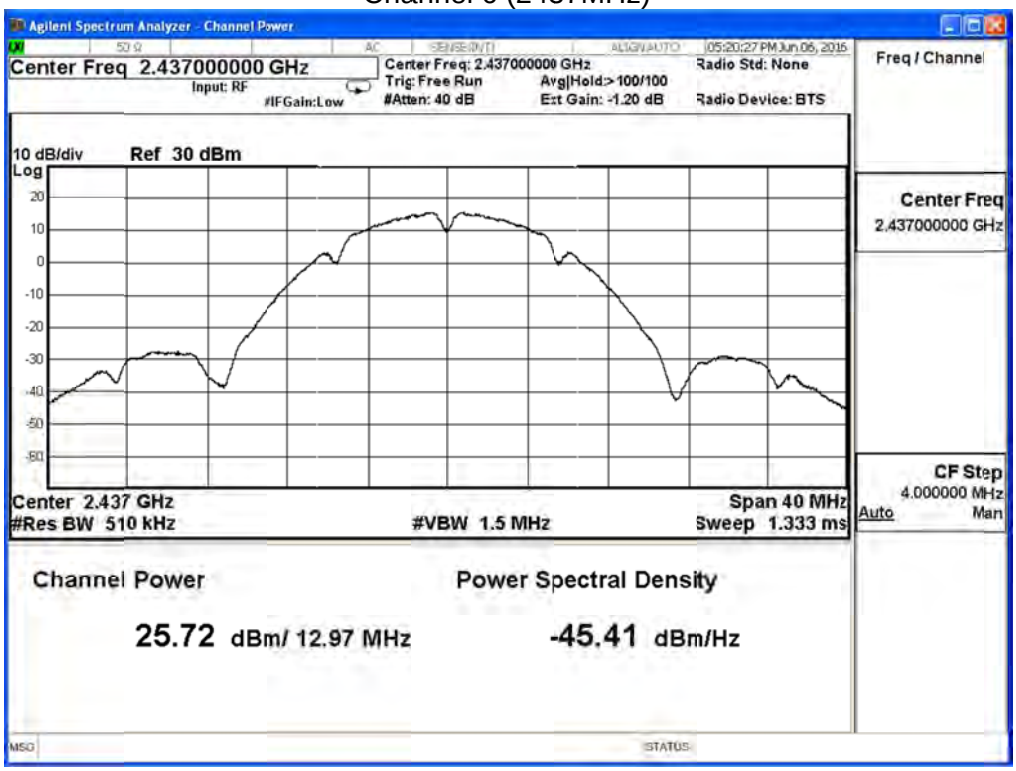
The worst emission of data rate is 1 Mbps

Peak Power Output (dBm)						
Channel No	Frequency (MHz)	Data Rate (Mbps)				Required Limit
		1	2	5.5	11	
1	2412	25.64	--	--	--	≦30
6	2437	25.72	25.70	25.64	25.60	≦30
11	2462	25.81	--	--	--	≦30

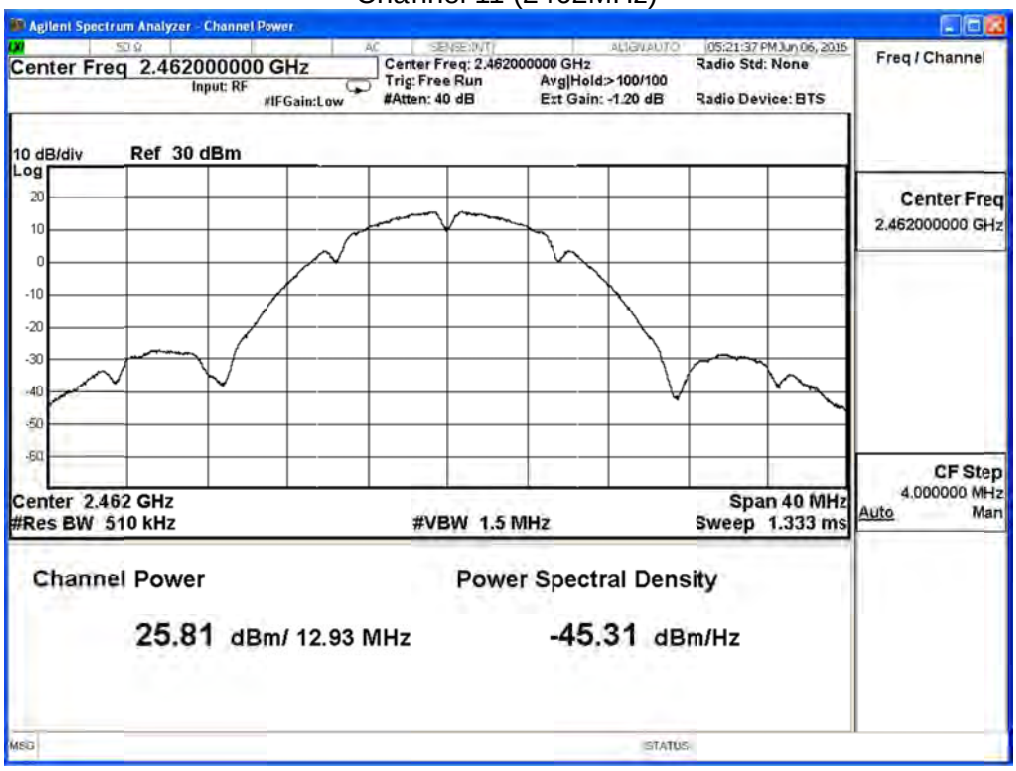
Channel 1 (2412MHz)



Channel 6 (2437MHz)



Channel 11 (2462MHz)



Product	Wireless-AC1700 Dual Band Gigabit Router		
Test Item	Peak Power Output		
Test Mode	Mode 1: TX_CDD Mode (11b/g)_ ADP1		
Date of Test	2016/06/14	Test Site	SR7

IEEE 802.11b (ANT 0+1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	28.67	≦30
6	2437	28.68	≦30
11	2462	28.84	≦30

The worst emission of data rate is 1 Mbps

Peak Power Output (dBm)						
Channel No	Frequency (MHz)	Data Rate (Mbps)				Required Limit
		1	2	5.5	11	
1	2412	28.67	--	--	--	≦30
6	2437	28.68	28.64	28.54	28.48	≦30
11	2462	28.84	--	--	--	≦30

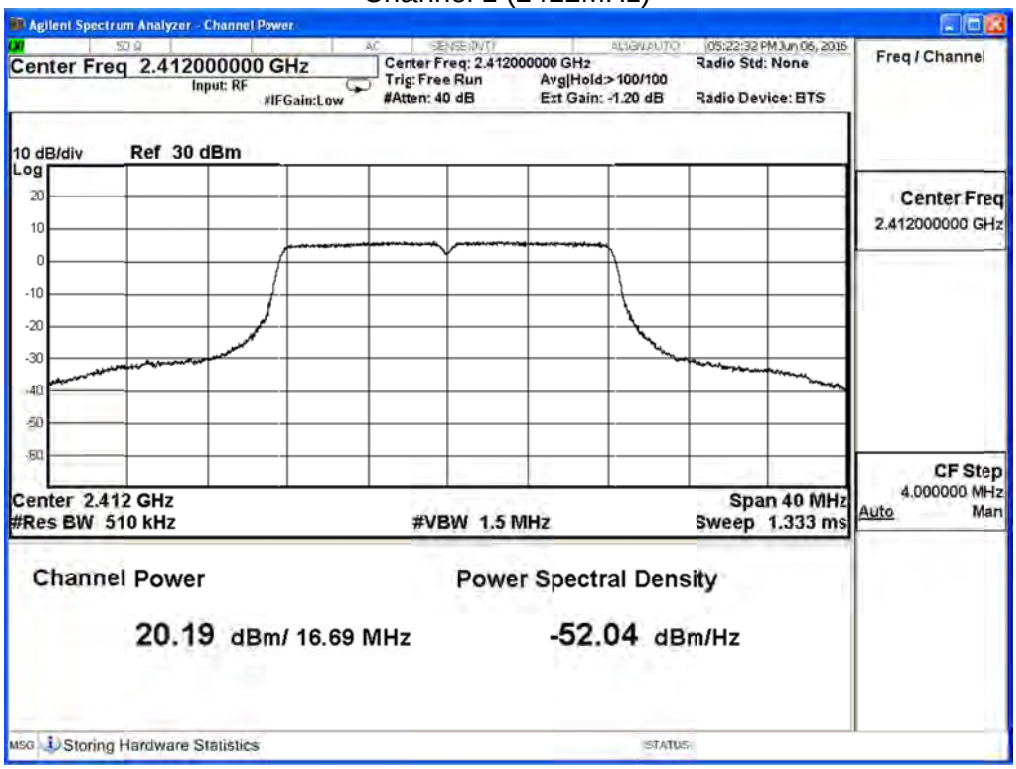
Product	Wireless-AC1700 Dual Band Gigabit Router		
Test Item	Peak Power Output		
Test Mode	Mode 1: TX_CDD Mode (11b/g)_ ADP1		
Date of Test	2016/06/14	Test Site	SR7

IEEE 802.11g (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	20.19	≦30
6	2437	24.21	≦30
11	2462	19.72	≦30

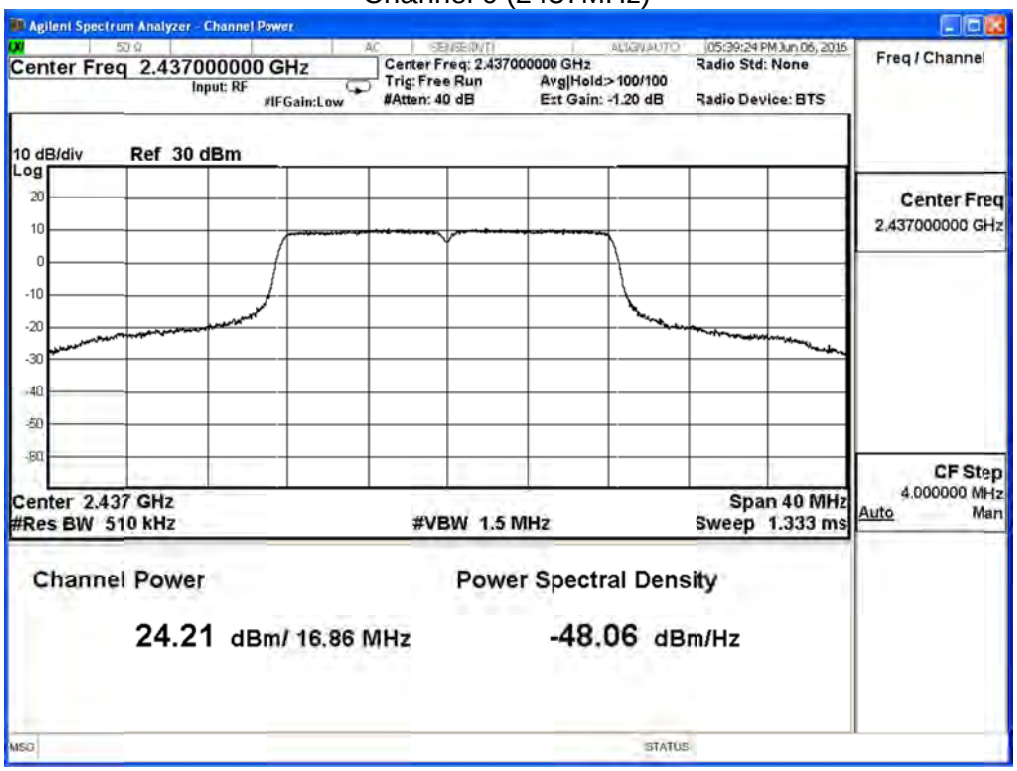
The worst emission of data rate is 6 Mbps

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate (Mbps)							Required Limit
		6	12	18	24	36	48	54	
1	2412	20.19	--	--	--	--	--	--	≦30
6	2437	24.21	24.12	24.05	24.00	23.94	23.90	23.84	≦30
11	2462	19.72	--	--	--	--	--	--	≦30

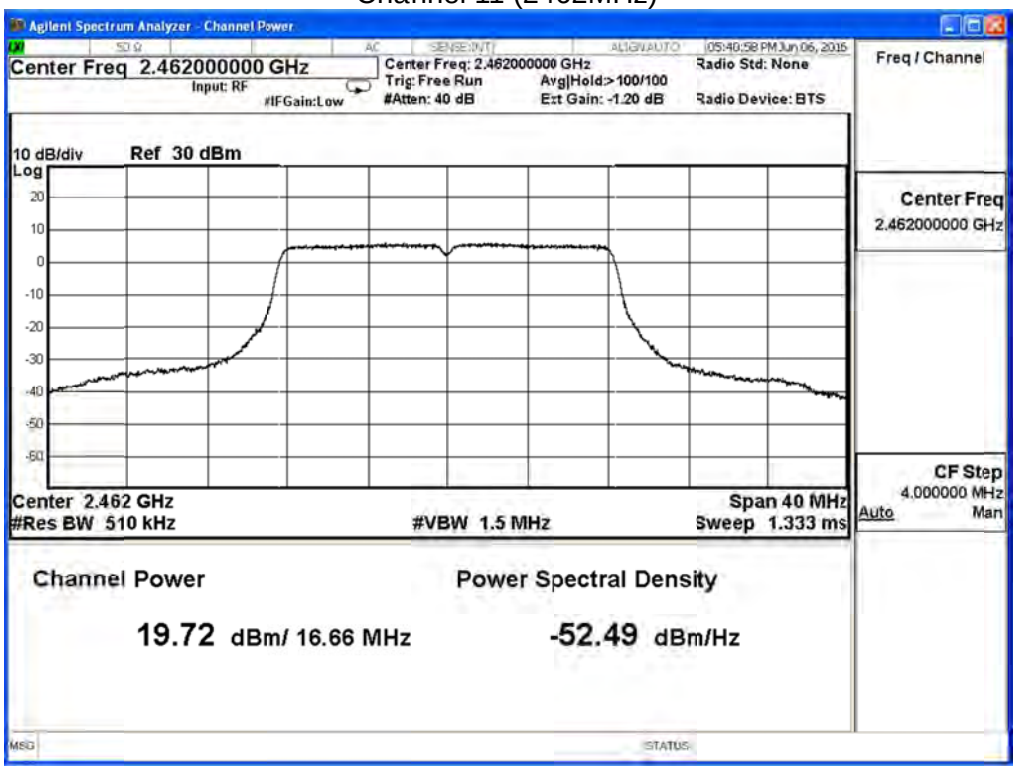
Channel 1 (2412MHz)



Channel 6 (2437MHz)



Channel 11 (2462MHz)



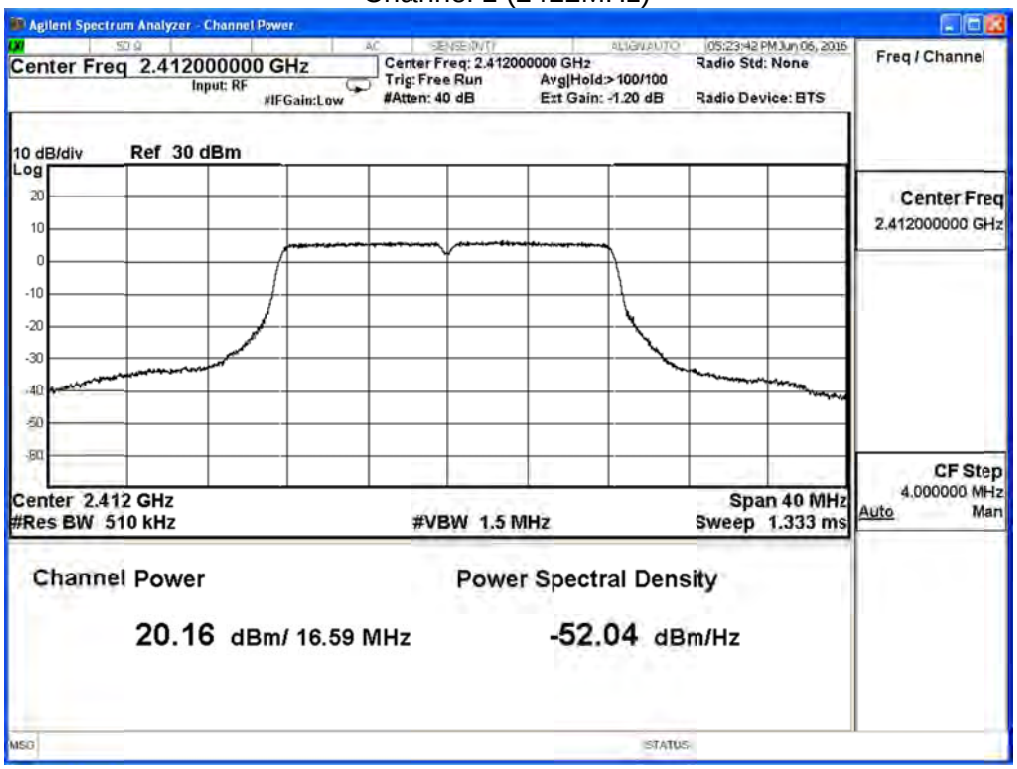
Product	Wireless-AC1700 Dual Band Gigabit Router		
Test Item	Peak Power Output		
Test Mode	Mode 1: TX_CDD Mode (11b/g)_ ADP1		
Date of Test	2016/06/14	Test Site	SR7

IEEE 802.11g (ANT 1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	20.16	≦30
6	2437	24.19	≦30
11	2462	19.63	≦30

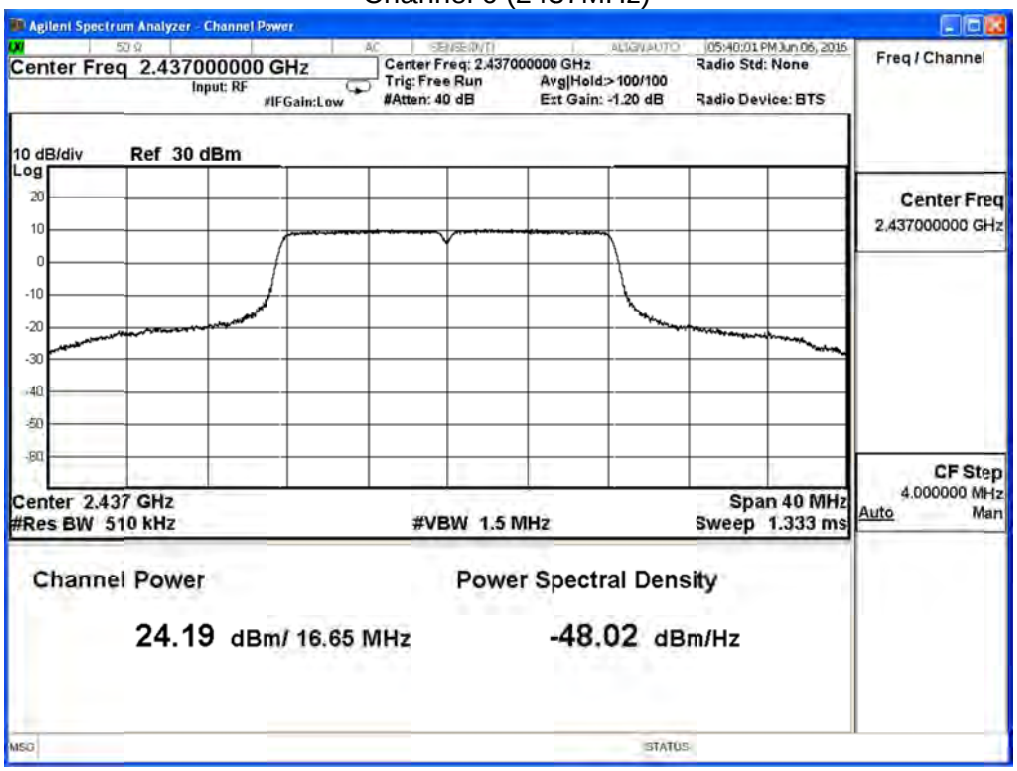
The worst emission of data rate is 6 Mbps

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate (Mbps)							Required Limit
		6	12	18	24	36	48	54	
1	2412	20.16	--	--	--	--	--	--	≦30
6	2437	24.19	24.11	24.08	24.00	23.96	23.90	23.84	≦30
11	2462	19.63	--	--	--	--	--	--	≦30

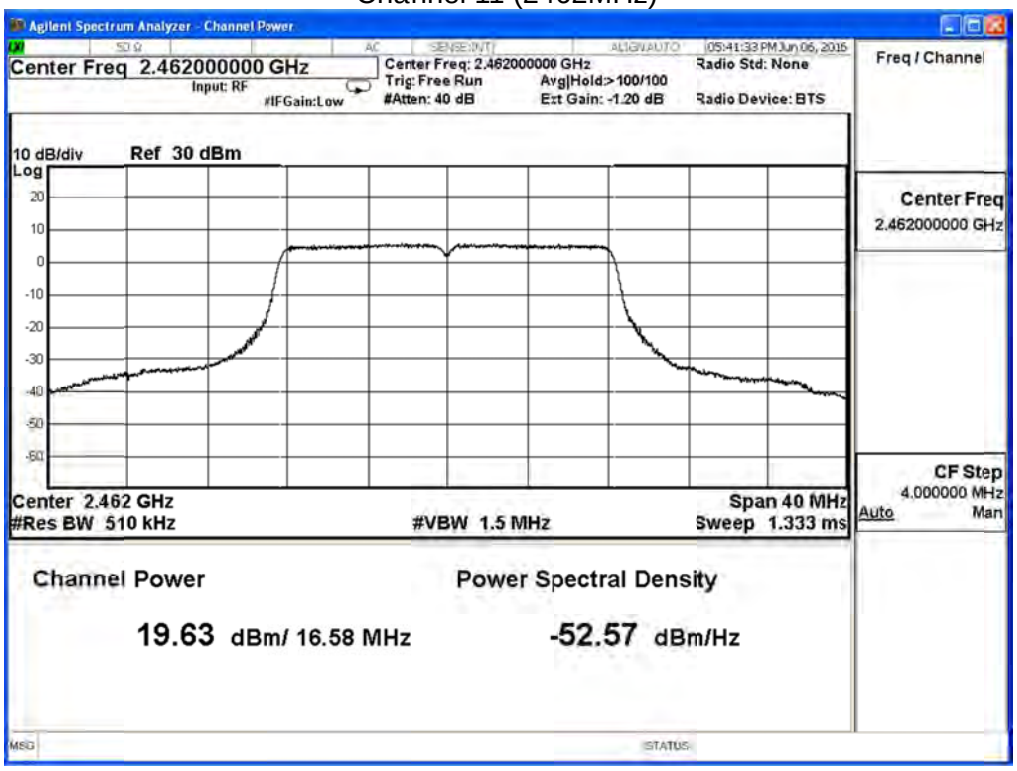
Channel 1 (2412MHz)



Channel 6 (2437MHz)



Channel 11 (2462MHz)



Product	Wireless-AC1700 Dual Band Gigabit Router		
Test Item	Peak Power Output		
Test Mode	Mode 1: TX_CDD Mode (11b/g)_ ADP1		
Date of Test	2016/06/14	Test Site	SR7

IEEE 802.11g (ANT 0+1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	23.19	≦30
6	2437	27.21	≦30
11	2462	22.69	≦30

The worst emission of data rate is 6 Mbps

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate (Mbps)							Required Limit
		6	12	18	24	36	48	54	
1	2412	23.19	--	--	--	--	--	--	≦30
6	2437	27.21	27.13	27.08	27.01	26.96	26.91	26.85	≦30
11	2462	22.69	--	--	--	--	--	--	≦30

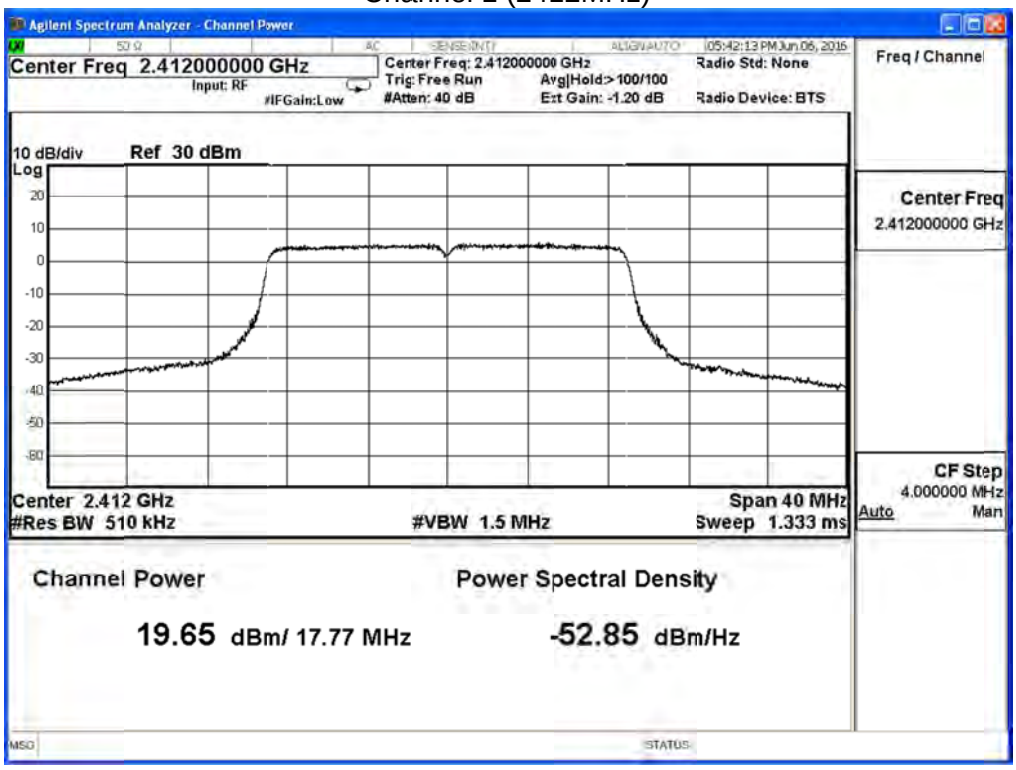
Product	Wireless-AC1700 Dual Band Gigabit Router		
Test Item	Peak Power Output		
Test Mode	Mode 2: TX_Beamforming Mode (11 n20/n40)_ ADP1		
Date of Test	2016/06/14	Test Site	SR7

IEEE 802.11n20 (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	19.65	≦30
6	2437	24.40	≦30
11	2462	19.35	≦30

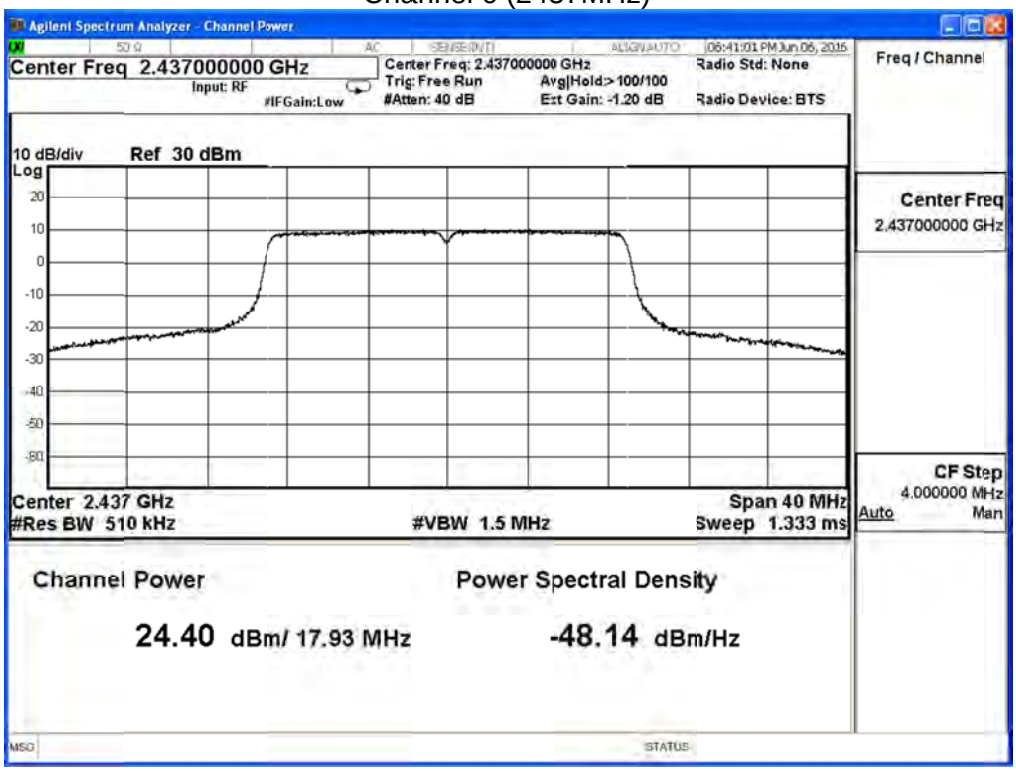
The worst emission of data rate is 13 Mbps

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13	26	39	52	78	104	117	130	
1	2412	19.65	--	--	--	--	--	--	--	≦30
6	2437	24.40	24.34	24.30	24.22	24.14	24.03	23.95	23.88	≦30
11	2462	19.35	--	--	--	--	--	--	--	≦30

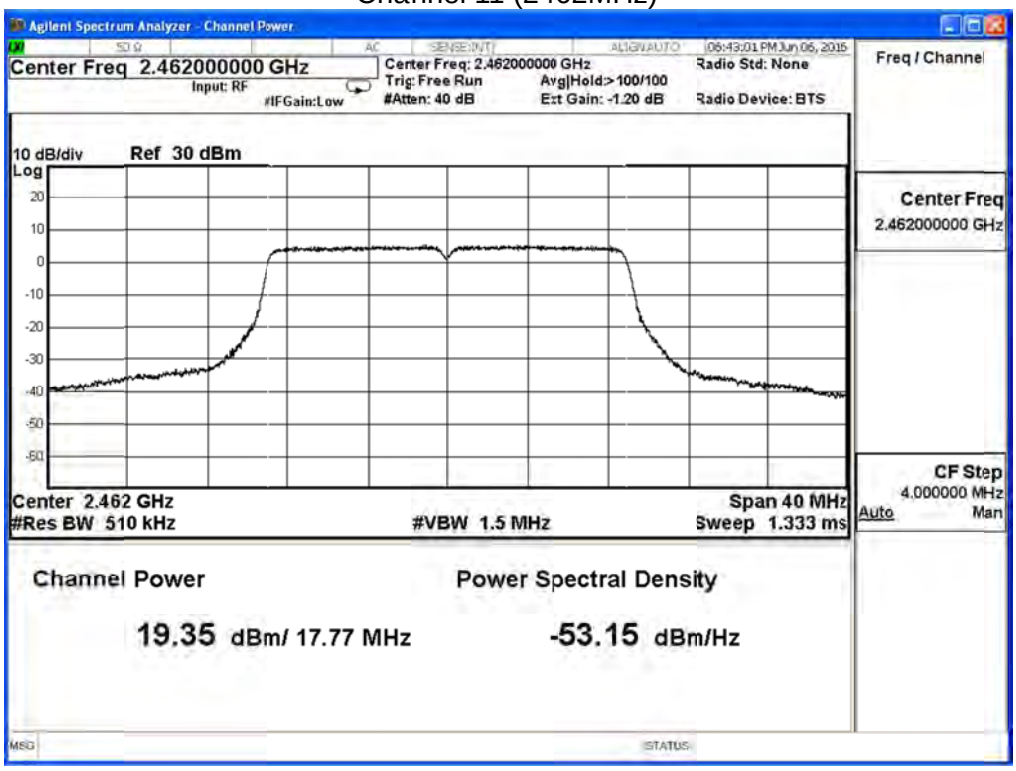
Channel 1 (2412MHz)



Channel 6 (2437MHz)



Channel 11 (2462MHz)



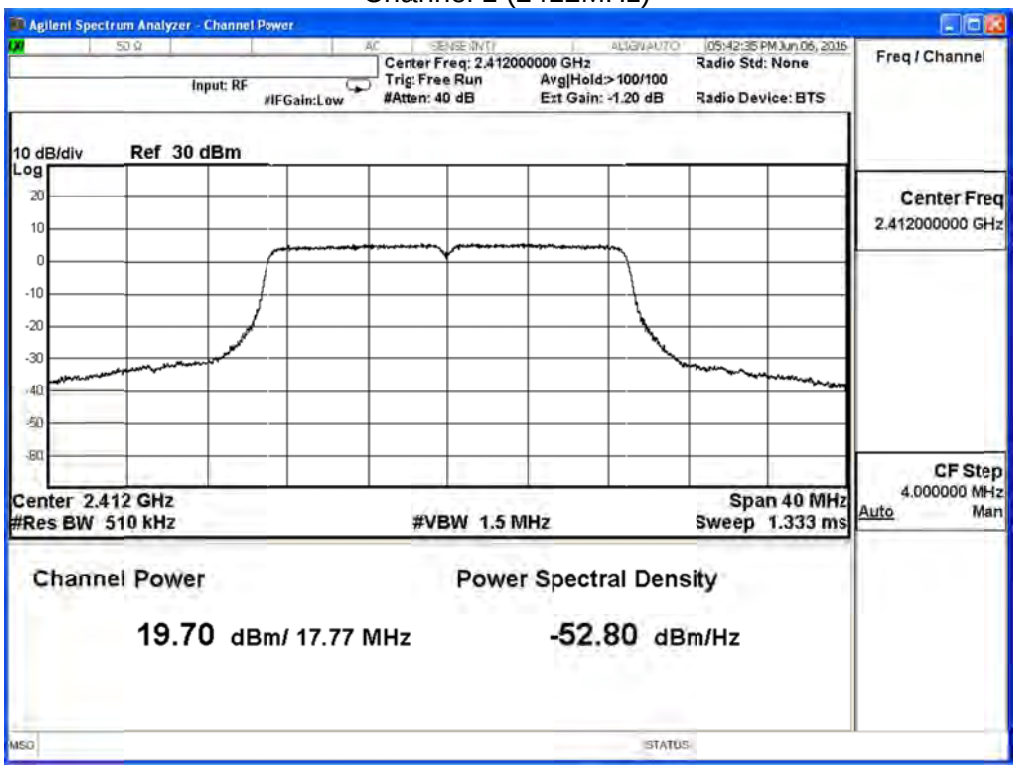
Product	Wireless-AC1700 Dual Band Gigabit Router		
Test Item	Peak Power Output		
Test Mode	Mode 2: TX_Beamforming Mode (11 n20/n40)_ ADP1		
Date of Test	2016/06/14	Test Site	SR7

IEEE 802.11n20 (ANT 1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	19.70	≦30
6	2437	24.39	≦30
11	2462	19.39	≦30

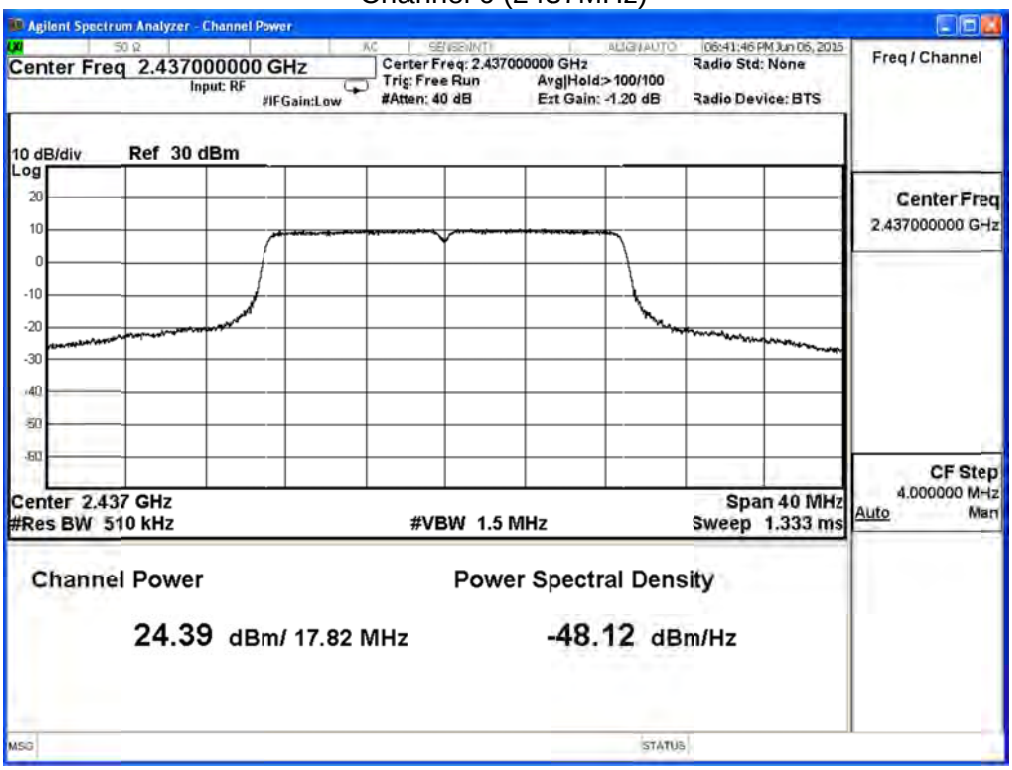
The worst emission of data rate is 13 Mbps

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13	26	39	52	78	104	117	130	
1	2412	19.70	--	--	--	--	--	--	--	≦30
6	2437	24.39	24.30	24.24	24.18	24.03	23.95	23.88	23.75	≦30
11	2462	19.39	--	--	--	--	--	--	--	≦30

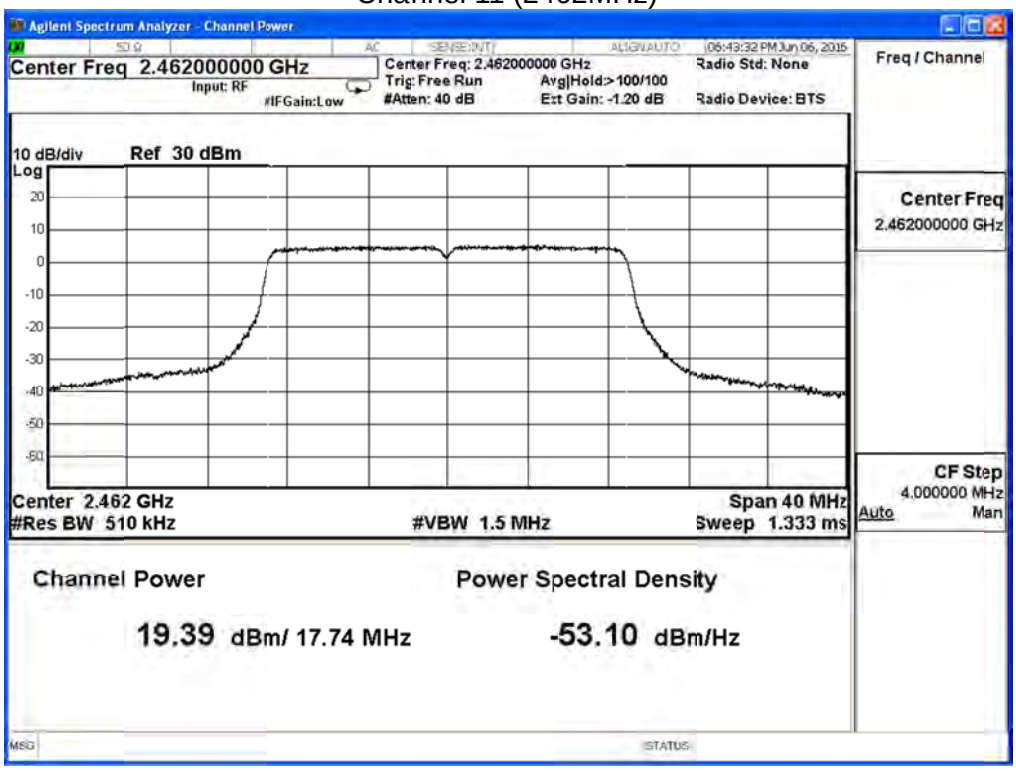
Channel 1 (2412MHz)



Channel 6 (2437MHz)



Channel 11 (2462MHz)



Product	Wireless-AC1700 Dual Band Gigabit Router		
Test Item	Peak Power Output		
Test Mode	Mode 2: TX_Beamforming Mode (11 n20/n40)_ ADP1		
Date of Test	2016/06/14	Test Site	SR7

IEEE 802.11n20 (ANT 0+1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	22.69	≦30
6	2437	27.41	≦30
11	2462	22.38	≦30

The worst emission of data rate is 13 Mbps

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13	26	39	52	78	104	117	130	
1	2412	22.69	--	--	--	--	--	--	--	≦30
6	2437	27.41	27.33	27.28	27.21	27.10	27.00	26.93	26.83	≦30
11	2462	22.38	--	--	--	--	--	--	--	≦30

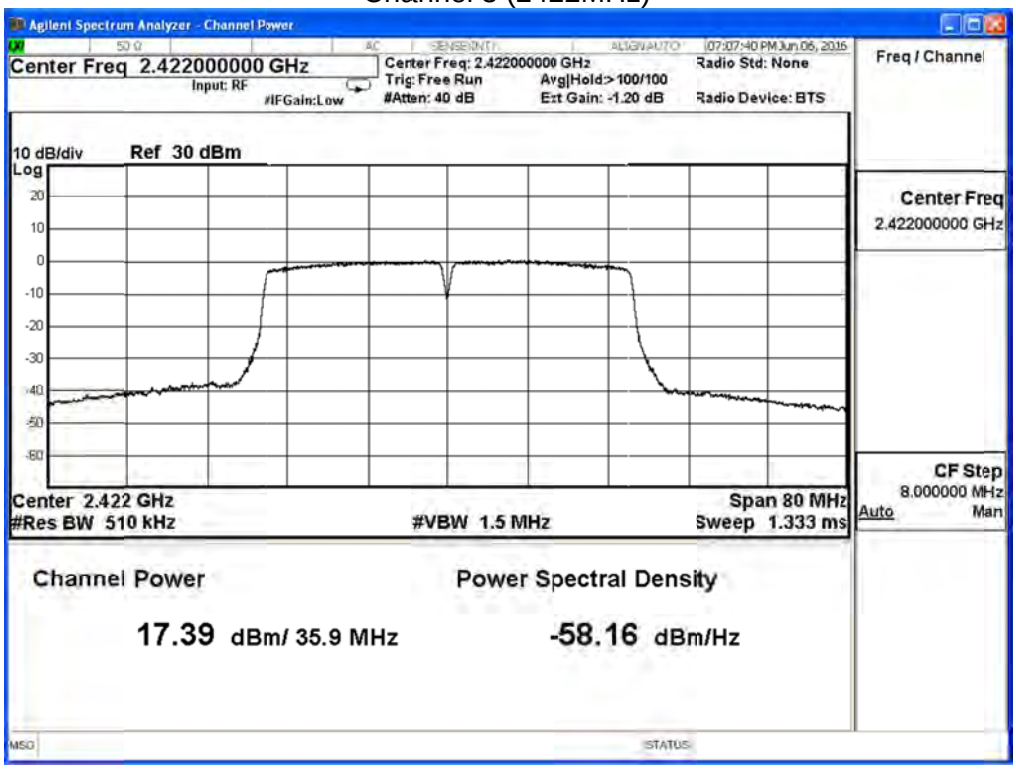
Product	Wireless-AC1700 Dual Band Gigabit Router		
Test Item	Peak Power Output		
Test Mode	Mode 2: TX_Beamforming Mode (11 n20/n40)_ ADP1		
Date of Test	2016/06/14	Test Site	SR7

IEEE 802.11n40 (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
3	2422	17.39	≦30
6	2437	21.56	≦30
9	2452	19.98	≦30

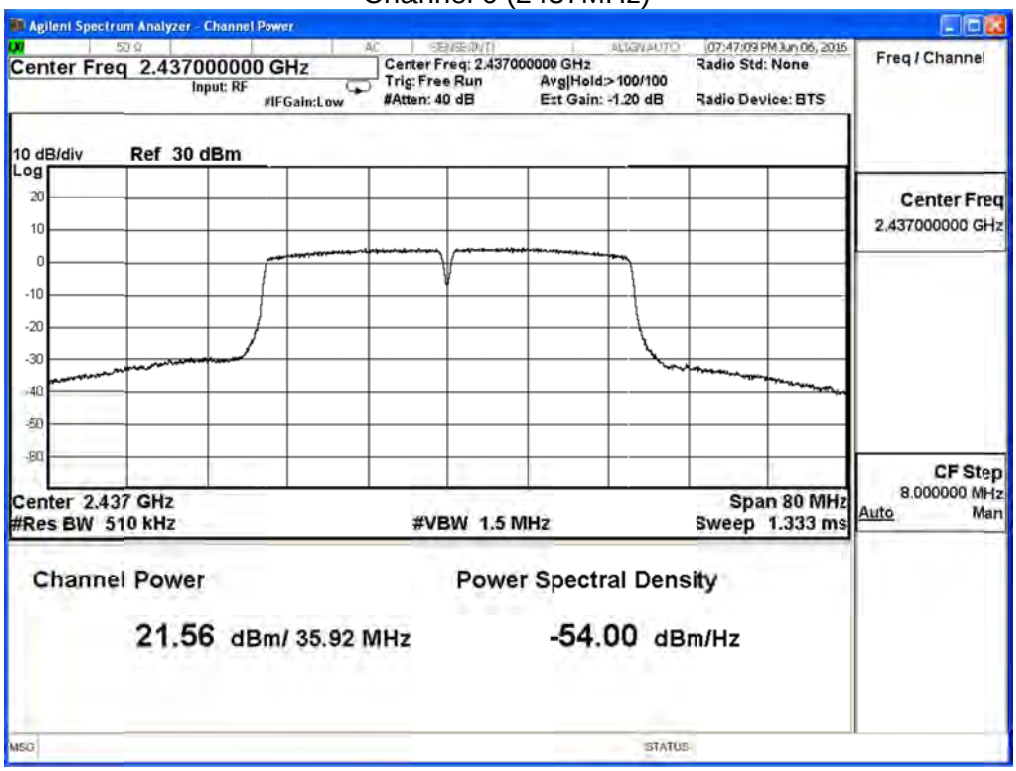
The worst emission of data rate is 27 Mbps.

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		27	54	81	108	162	216	243	270	
3	2422	17.39	--	--	--	--	--	--	--	≦30
6	2437	21.56	21.50	21.44	21.30	21.18	21.06	20.97	20.88	≦30
9	2452	19.98	--	--	--	--	--	--	--	≦30

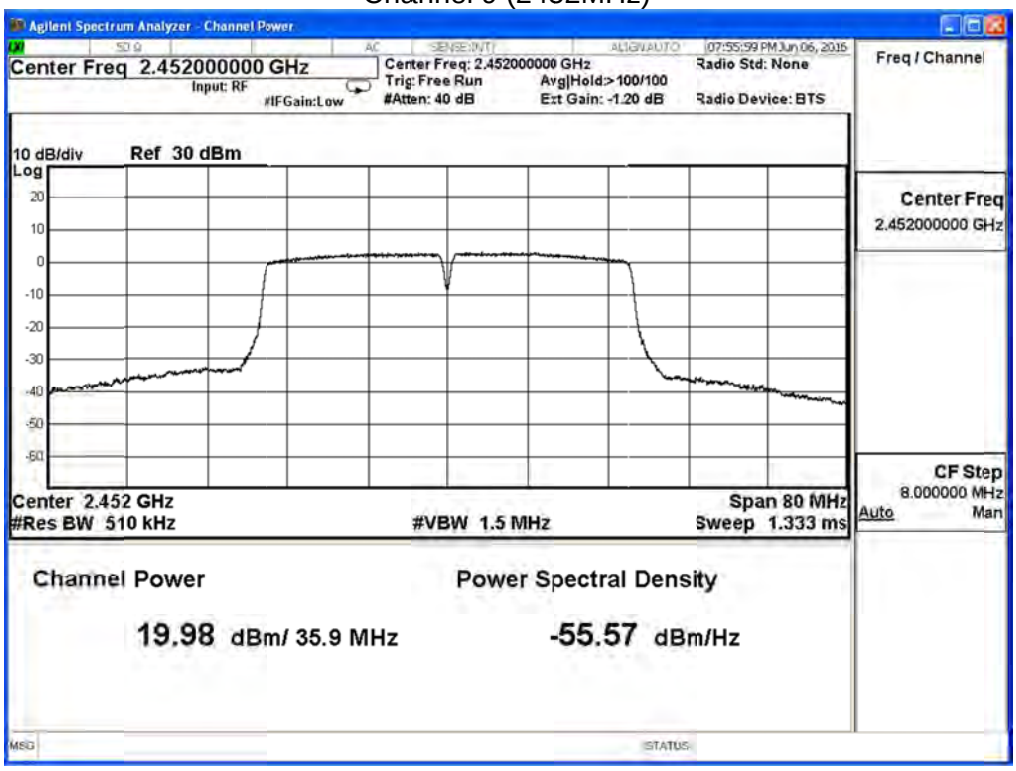
Channel 3 (2422MHz)



Channel 6 (2437MHz)



Channel 9 (2452MHz)



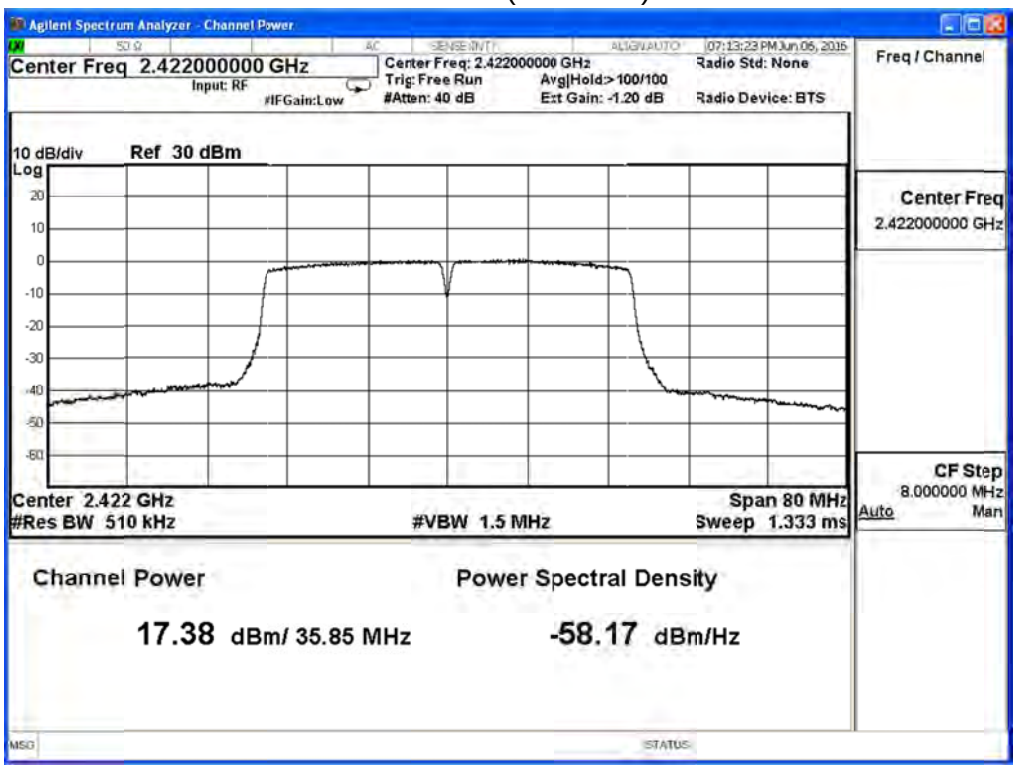
Product	Wireless-AC1700 Dual Band Gigabit Router		
Test Item	Peak Power Output		
Test Mode	Mode 2: TX_Beamforming Mode (11 n20/n40)_ ADP1		
Date of Test	2016/06/14	Test Site	SR7

IEEE 802.11n40 (ANT 1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
3	2422	17.38	≦30
6	2437	21.56	≦30
9	2452	19.94	≦30

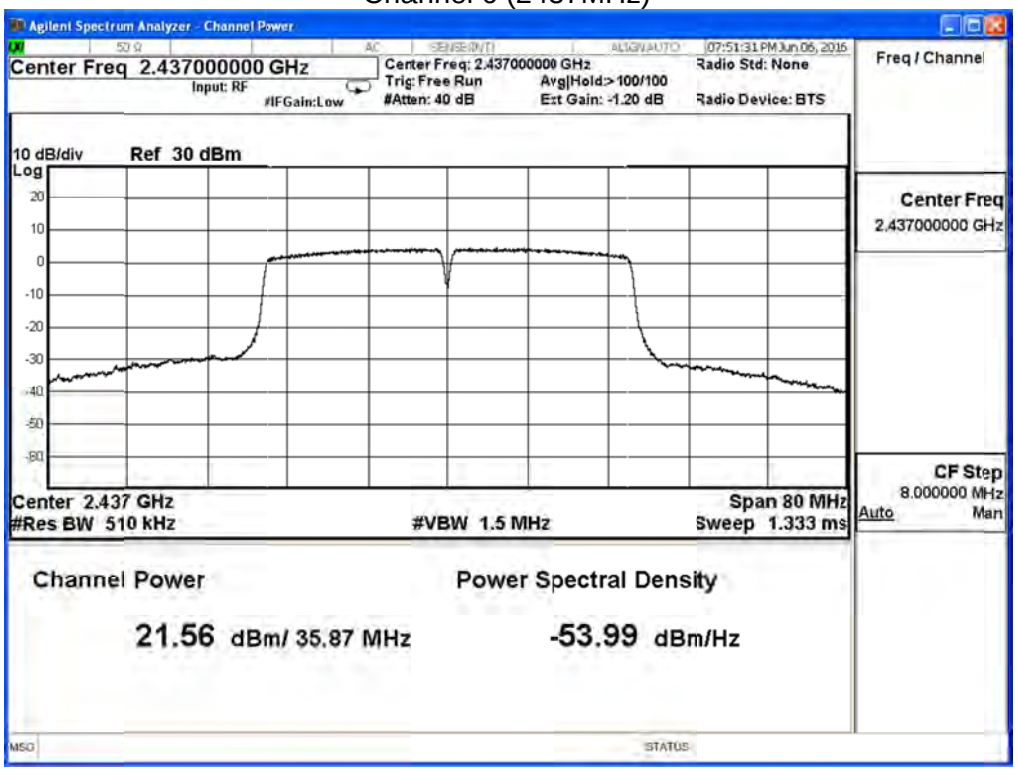
The worst emission of data rate is 27 Mbps.

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		27	54	81	108	162	216	243	270	
3	2422	17.38	--	--	--	--	--	--	--	≦30
6	2437	21.56	21.44	21.36	21.30	21.21	21.13	21.00	20.92	≦30
9	2452	19.94	--	--	--	--	--	--	--	≦30

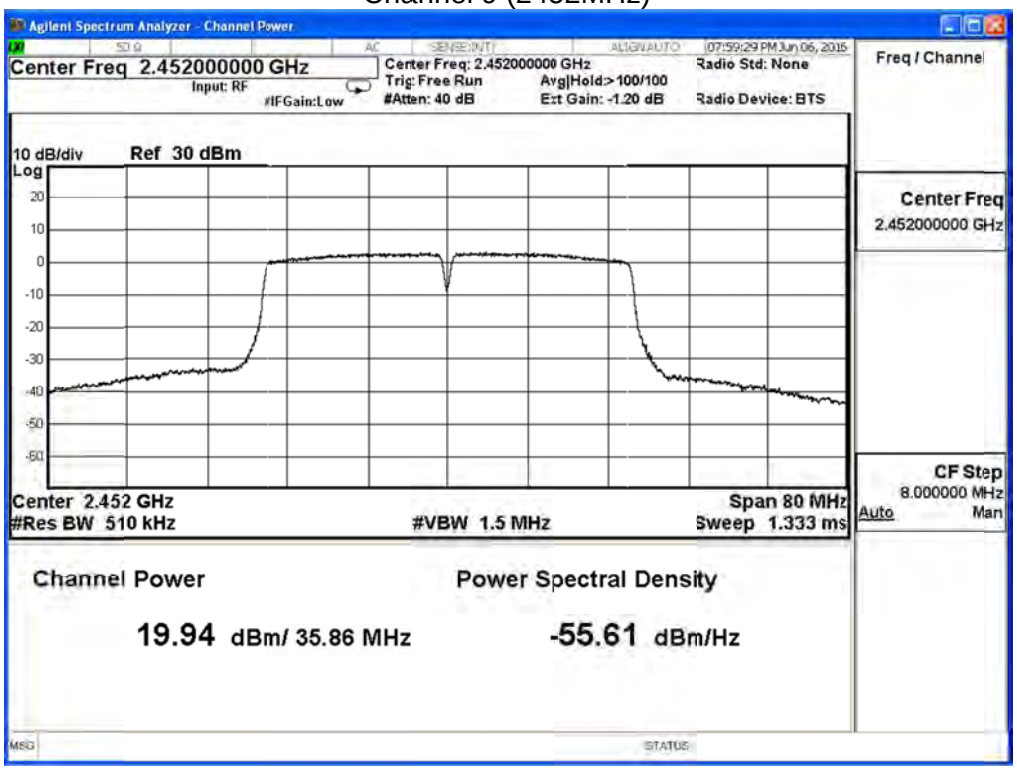
Channel 3 (2422MHz)



Channel 6 (2437MHz)



Channel 9 (2452MHz)



Product	Wireless-AC1700 Dual Band Gigabit Router		
Test Item	Peak Power Output		
Test Mode	Mode 2: TX_Beamforming Mode (11 n20/n40)_ ADP1		
Date of Test	2016/06/14	Test Site	SR7

IEEE 802.11n40 (ANT 0+1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
3	2422	20.40	≦30
6	2437	24.57	≦30
9	2452	22.97	≦30

The worst emission of data rate is 27 Mbps.

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		27	54	81	108	162	216	243	270	
3	2422	20.40	--	--	--	--	--	--	--	≦30
6	2437	24.57	24.48	24.41	24.31	24.21	24.11	24.00	23.91	≦30
9	2452	22.97	--	--	--	--	--	--	--	≦30

4. Radiated Emission

4.1. Test Equipment

The following test equipment are used during the test:

Radiated Emission / CB4-H (Under 1GHz)

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Bilog Antenna	Schaffner	CBL6112B	2891	2017/08/14
Horn Antenna	Schwarzbeck	BBHA 9120	D312	2017/10/25
Pre-Amplifier	EMCI	EMC0031835	980233	2018/02/02
Pre-Amplifier	Schwarzbeck	DBL-1840N506	013	2017/09/29
Pre-Amplifier	Miteq	JS41-001040000-58-5P	1573954	2017/10/04
Horn Antenna	Schwarzbeck	BBHA 9170	203	2017/08/28
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/01/22

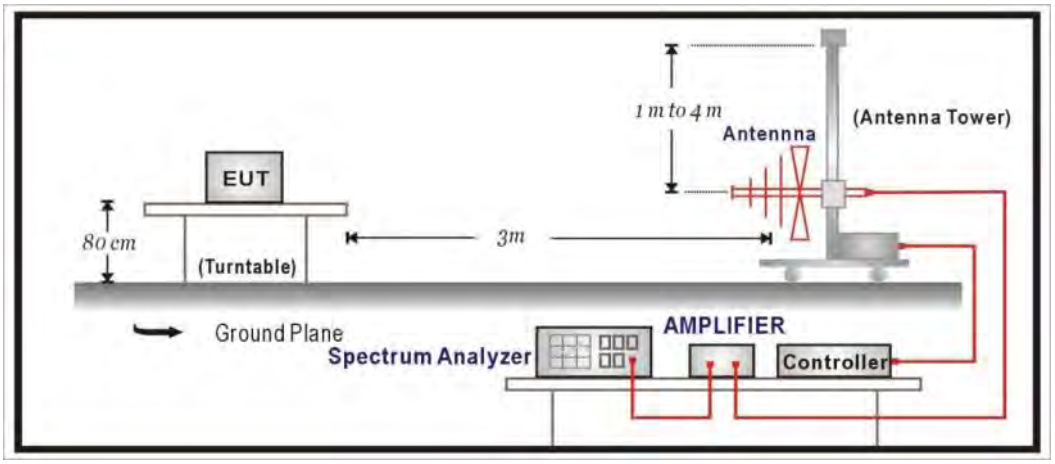
Radiated Emission / CB1 (Above 1GHz)

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Bilog Antenna	Schaffner	CBL6112B	2895	2016/08/14
Double Ridged Guide Horn Antenna	Schwarzbeck	BBHA 9120	D743	2017/01/14
Pre-Amplifier	EMCI	EMC0031835	4583/10/13	2017/01/26
Pre-Amplifier	QuieTek	AP-025C	CHM-0706049	2017/01/03
Spectrum Analyzer	Agilent	E4440A	MY46187335	2016/12/24
k Type Cable	Huber+Suhner	SF 102	25623/2	2017/01/11
Horn Antenna	Schwarzbeck	BBHA 9170	203	2016/09/07
Signal & Spectrum Analyzer	R&S	FSV40	101049	2017/01/05

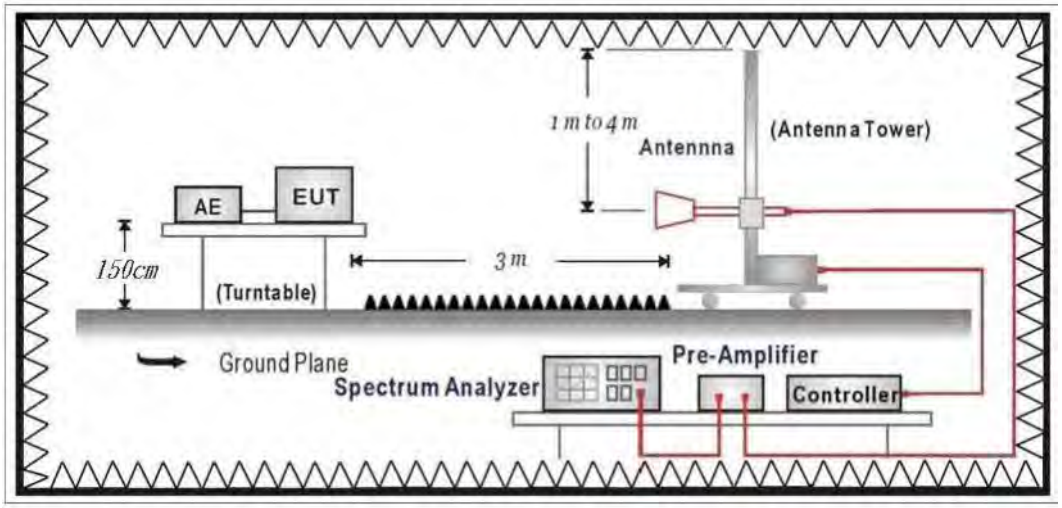
Note: All equipment that need to calibrate are with calibration period of 1 year.

4.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limits

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

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

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

4.4. Test Procedure

The EUT was setup according to ANSI C63.10:2013 and tested according to DTS test procedure of KDB558074 v03r05 for compliance to FCC 47CFR 15.247 requirements.
The EUT and its simulators are placed on a turn table which is 1.5 meter above ground(under 1GHz) or 1.5 meter above ground (above 1GHz). The turn table can rotate 360 degrees to determine the position of the maximum emission level.
The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.
Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10:2013 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: 2015

4.6. Uncertainty

The measurement uncertainty

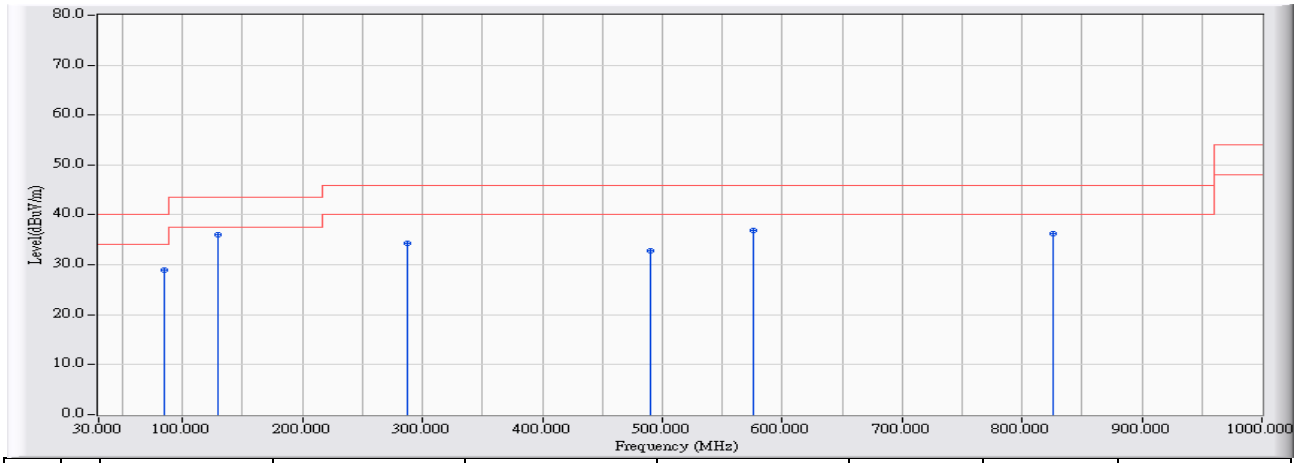
30MHz～1GHz as ±3.43dB

1GHz～26.5Ghz as ±3.65dB

4.7. Test Result

30MHz-1GHz Spurious

Site : CB4-H	**Time : 2017/07/05**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB4-H_FCC_EFS_S2_30M-1GHz_1116 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1700 Dual Band Gigabit Router	**Note : Mode 2: TX_Beamforming Mode (11 n20/n40)_ ADP1_ 802.11n(40M)_2437MHz**

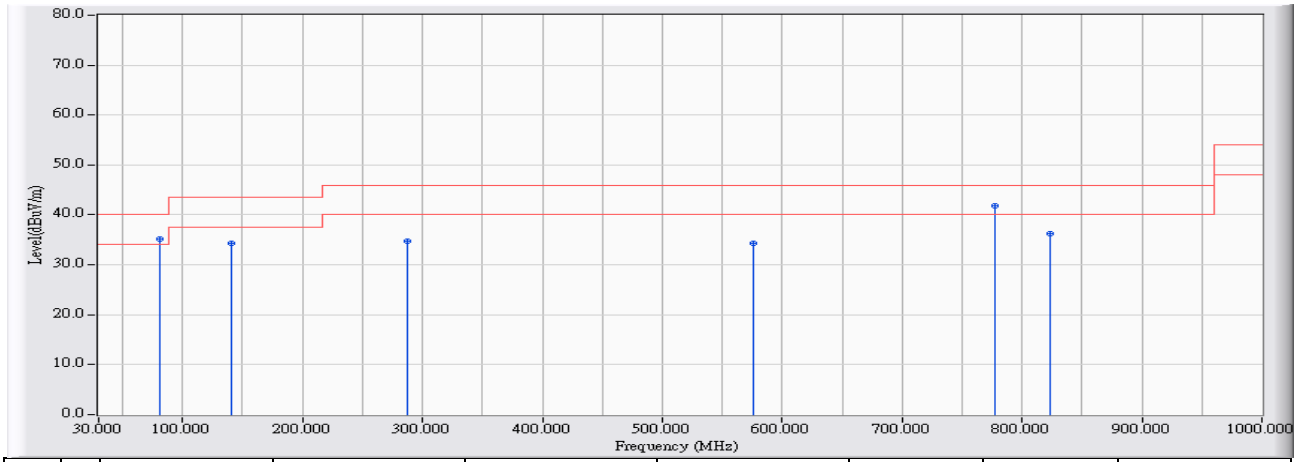


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		84.320	-26.375	55.275	28.899	-11.101	40.000	QUASIPEAK
2	*	129.910	-21.258	57.372	36.114	-7.386	43.500	QUASIPEAK
3		288.020	-19.307	53.707	34.400	-11.600	46.000	QUASIPEAK
4		490.265	-14.190	46.915	32.724	-13.276	46.000	QUASIPEAK
5		576.110	-13.197	50.105	36.908	-9.092	46.000	QUASIPEAK
6		825.400	-9.874	46.099	36.224	-9.776	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 : CB4-H	**Time : 2017/07/05**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB4-H_FCC_EFS_S2_30M-1GHz_1116 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1700 Dual Band Gigabit Router	**Note : Mode 2: TX_Beamforming Mode (11 n20/n40)_ ADP1_ 802.11n(40M)_2437MHz**

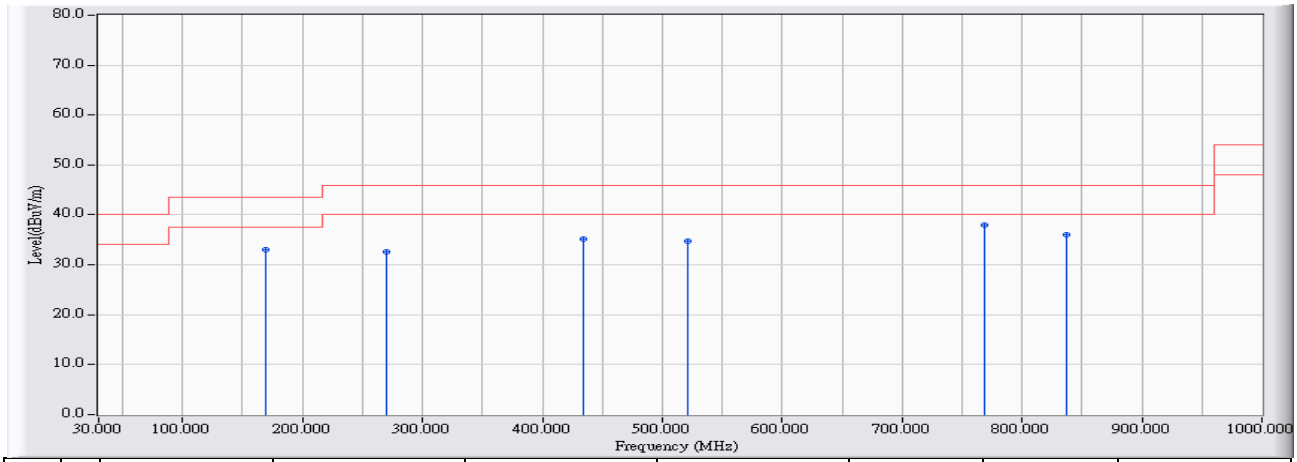


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		80.440	-26.960	62.154	35.194	-4.806	40.000	QUASIPEAK
2		140.580	-21.629	55.960	34.332	-9.168	43.500	QUASIPEAK
3		288.020	-19.307	54.063	34.756	-11.244	46.000	QUASIPEAK
4		576.110	-13.197	47.593	34.396	-11.604	46.000	QUASIPEAK
5	*	776.900	-9.835	51.629	41.794	-4.206	46.000	QUASIPEAK
6		823.945	-9.939	46.256	36.316	-9.684	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 : CB4-H	**Time : 2017/07/18**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB4-H_FCC_EFS_S2_30M-1GHz_1116 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1700 Dual Band Gigabit Router	**Note : Mode 4: TX_Beamforming Mode (11 n20/n40)_ ADP2_ 802.11n(40M)_2437MHz**

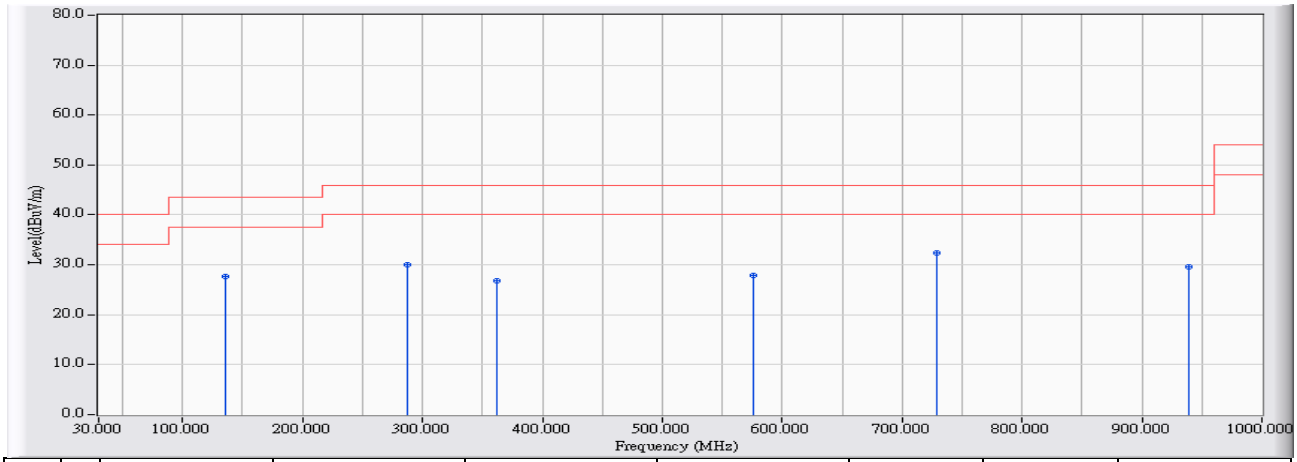


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		168.890	-23.104	56.196	33.092	-10.408	43.500	QUASIPEAK
2		270.245	-20.490	53.129	32.639	-13.361	46.000	QUASIPEAK
3		434.547	-16.734	51.881	35.146	-10.854	46.000	QUASIPEAK
4		520.965	-15.235	49.896	34.661	-11.339	46.000	QUASIPEAK
5	*	769.163	-12.741	50.607	37.866	-8.134	46.000	QUASIPEAK
6		837.153	-11.892	47.838	35.946	-10.054	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 : CB4-H	**Time : 2017/07/18**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB4-H_FCC_EFS_S2_30M-1GHz_1116 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1700 Dual Band Gigabit Router	**Note : Mode 4: TX_Beamforming Mode (11 n20/n40)_ ADP2_ 802.11n(40M)_2437MHz**

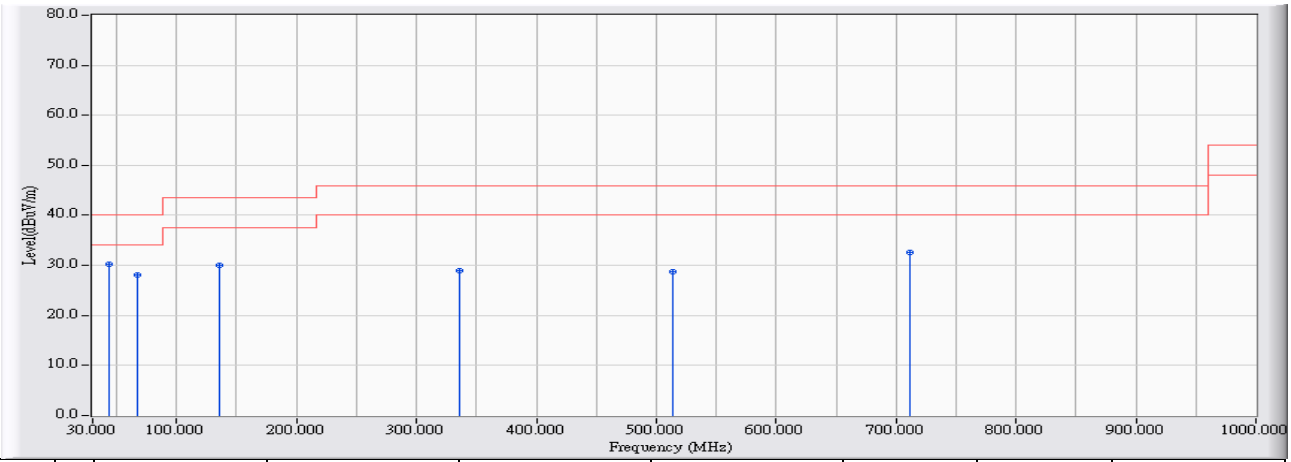


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		135.137	-21.143	48.806	27.663	-15.837	43.500	QUASIPEAK
2		287.897	-20.272	50.341	30.068	-15.932	46.000	QUASIPEAK
3		362.483	-18.510	45.407	26.897	-19.103	46.000	QUASIPEAK
4		575.958	-14.610	42.440	27.830	-18.170	46.000	QUASIPEAK
5	*	729.106	-13.192	45.496	32.304	-13.696	46.000	QUASIPEAK
6		939.090	-10.300	39.979	29.679	-16.321	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 : CB4-H	**Time : 2017/07/18**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB4-H_FCC_EFS_S2_30M-1GHz_1116 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1700 Dual Band Gigabit Router	**Note : Mode 6: TX_Beamforming Mode (11 n20/n40)_ ADP3_ 802.11n(40M)_2437MHz**

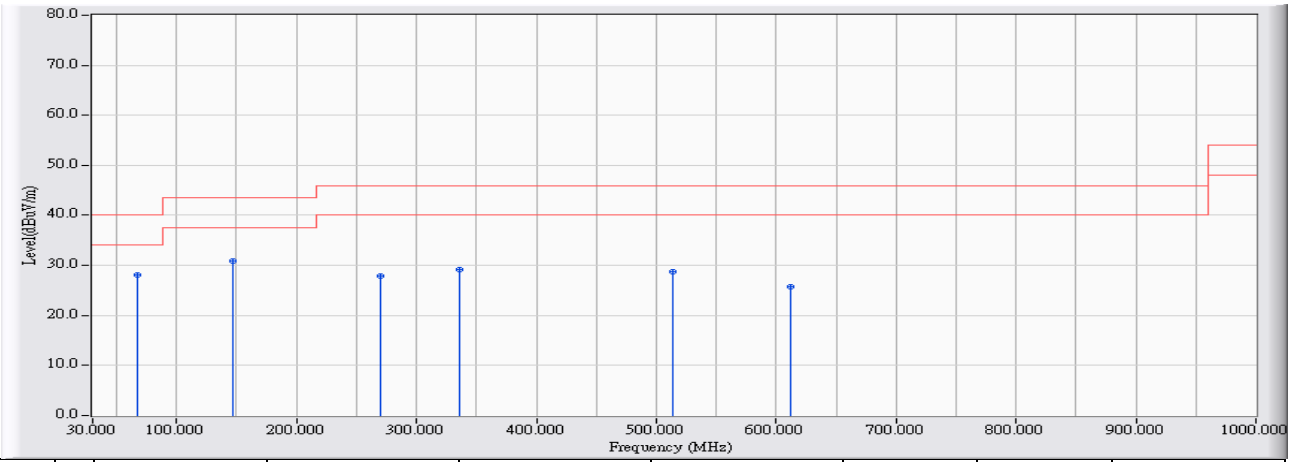


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	44.064	-18.074	48.261	30.186	-9.814	40.000	QUASIPEAK
2		67.147	-24.925	52.931	28.006	-11.994	40.000	QUASIPEAK
3		135.137	-21.143	51.165	30.022	-13.478	43.500	QUASIPEAK
4		336.004	-19.144	48.107	28.963	-17.037	46.000	QUASIPEAK
5		513.982	-15.305	44.050	28.745	-17.255	46.000	QUASIPEAK
6		710.872	-13.293	45.828	32.535	-13.465	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 : CB4-H	**Time : 2017/07/18**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB4-H_FCC_EFS_S2_30M-1GHz_1116 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1700 Dual Band Gigabit Router	**Note : Mode 6: TX_Beamforming Mode (11 n20/n40)_ ADP3_ 802.11n(40M)_2437MHz**



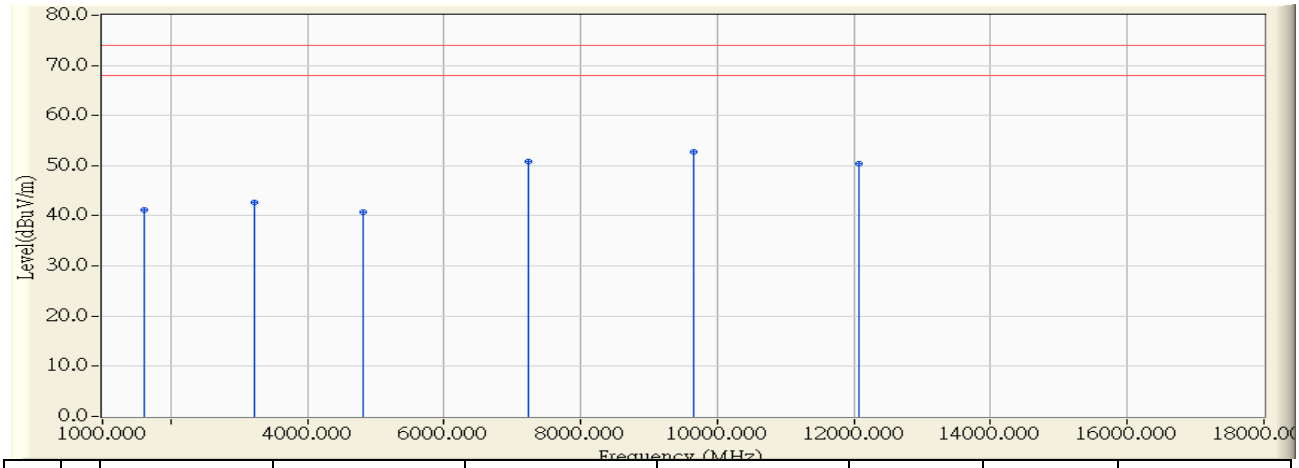
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	67.147	-24.925	52.931	28.006	-11.994	40.000	QUASIPEAK
2		147.358	-21.519	52.484	30.965	-12.535	43.500	QUASIPEAK
3		270.245	-20.490	48.407	27.917	-18.083	46.000	QUASIPEAK
4		336.004	-19.144	48.364	29.220	-16.780	46.000	QUASIPEAK
5		513.982	-15.305	44.050	28.745	-17.255	46.000	QUASIPEAK
6		612.524	-14.144	39.777	25.633	-20.367	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 : 2016/05/16 - 10:04**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1700 Dual Band Gigabit Router	**Note : Mode 1: TX_CDD Mode (11b/g)_ ADP1 _802.11b_2412MHz**

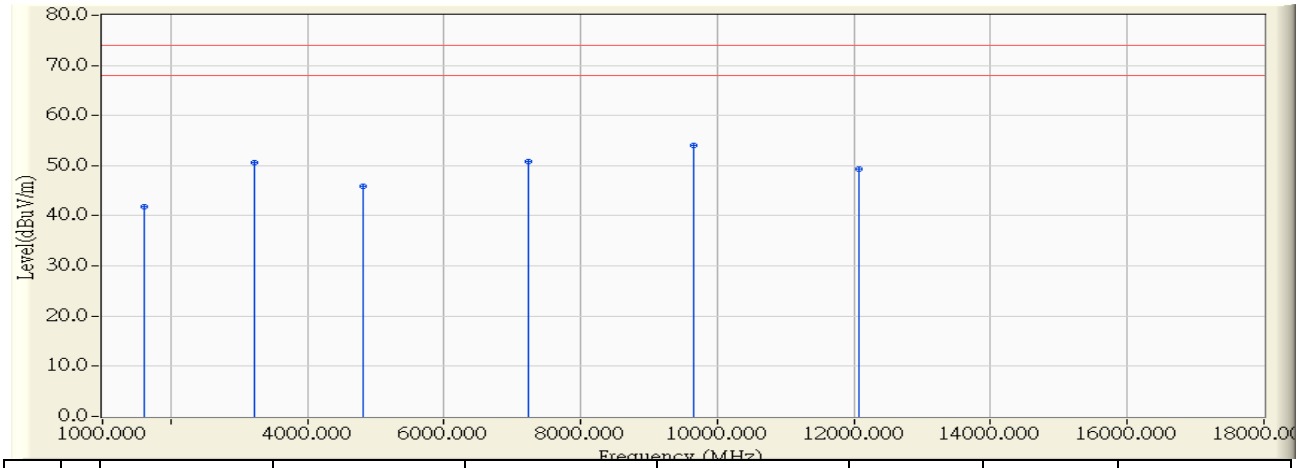


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1608.000	-9.650	50.730	41.081	-32.919	74.000	PEAK
2		3216.000	-6.038	48.750	42.712	-31.288	74.000	PEAK
3		4823.820	-2.561	43.290	40.730	-33.270	74.000	PEAK
4		7237.060	5.928	44.887	50.815	-23.185	74.000	PEAK
5	*	9647.760	7.658	45.050	52.707	-21.293	74.000	PEAK
6		12069.820	10.325	40.100	50.426	-23.574	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18 GHz to 25 GHz were not included is because their levels are less than limit .

Site : CB1	**Time : 2016/05/16 - 10:43**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1700 Dual Band Gigabit Router	**Note : Mode 1: TX_CDD Mode (11b/g)_ ADP1 _802.11b_2412MHz**

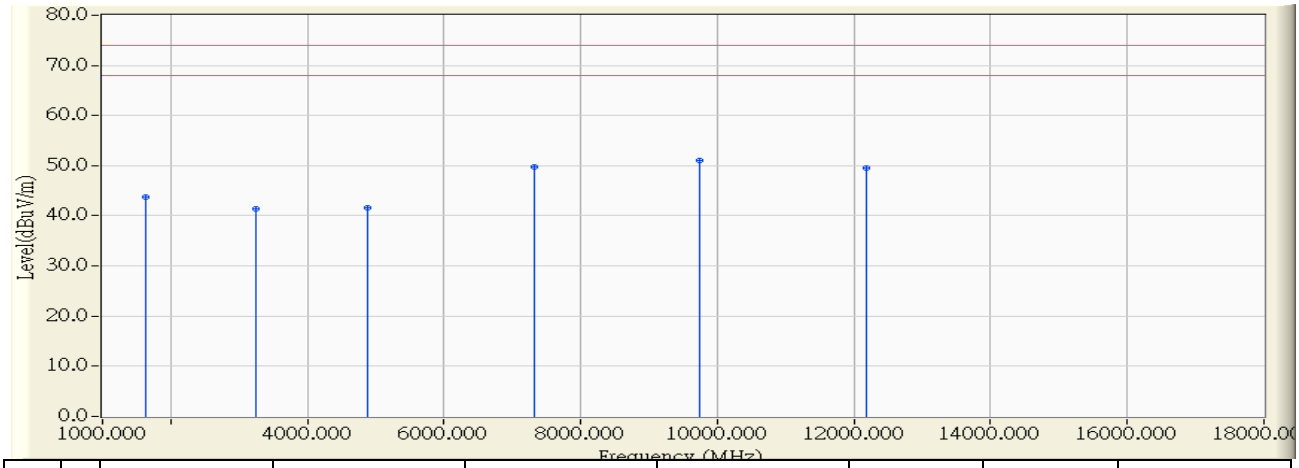


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1608.000	-9.275	51.020	41.746	-32.254	74.000	PEAK
2		3216.000	-3.805	54.350	50.545	-23.455	74.000	PEAK
3		4823.880	-1.663	47.480	45.818	-28.182	74.000	PEAK
4		7234.180	5.422	45.390	50.812	-23.188	74.000	PEAK
5	*	9648.880	7.165	46.780	53.945	-20.055	74.000	PEAK
6		12061.000	9.914	39.510	49.424	-24.576	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 18 GHz to 25 GHz were not included is because their levels are less than limit .

Site : CB1	**Time : 2016/05/16 - 10:54**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1700 Dual Band Gigabit Router	**Note : Mode 1: TX_CDD Mode (11b/g)_ ADP1 _802.11b_2437MHz**

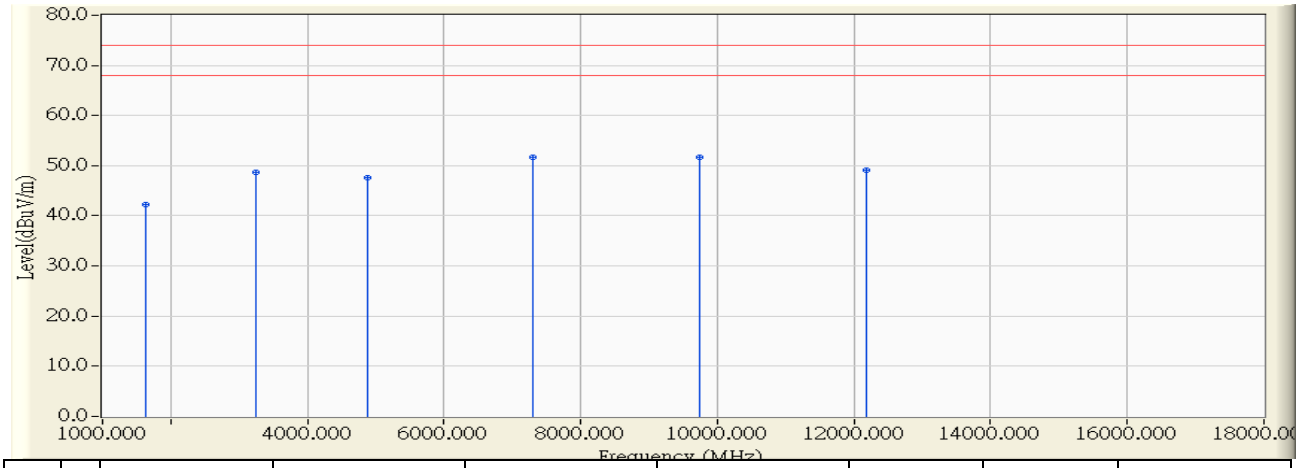


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1625.000	-9.645	53.400	43.755	-30.245	74.000	PEAK
2		3248.000	-6.036	47.410	41.374	-32.626	74.000	PEAK
3		4873.820	-2.426	43.990	41.564	-32.436	74.000	PEAK
4		7309.800	6.072	43.740	49.811	-24.189	74.000	PEAK
5	*	9748.280	8.201	42.890	51.092	-22.908	74.000	PEAK
6		12179.540	10.195	39.320	49.515	-24.485	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 18 GHz to 25 GHz were not included is because their levels are less than limit .

Site : CB1	**Time : 2016/05/16 - 11:03**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1700 Dual Band Gigabit Router	**Note : Mode 1: TX_CDD Mode (11b/g)_ ADP1 _802.11b_2437MHz**

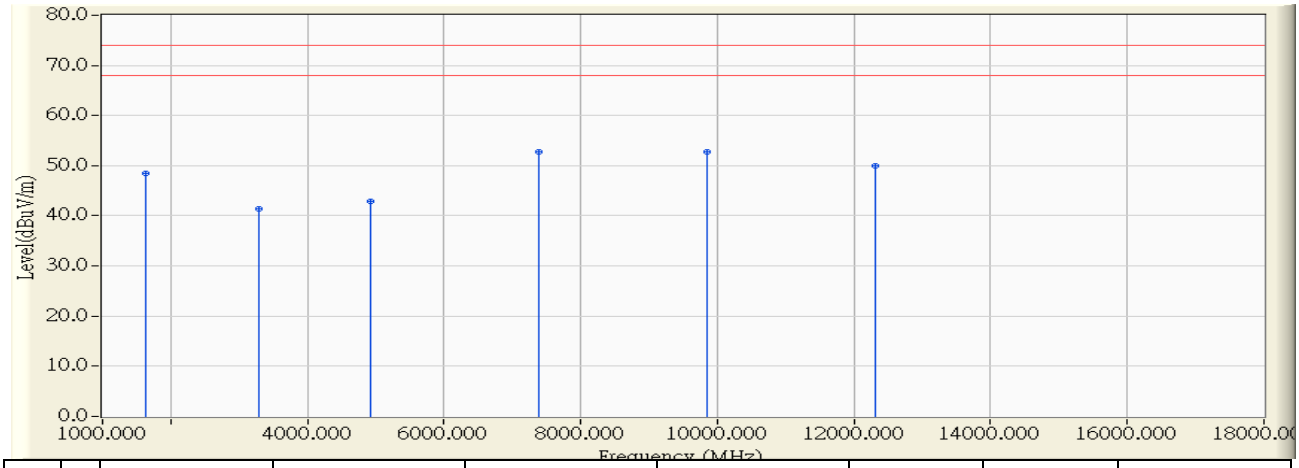


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1624.000	-9.286	51.510	42.224	-31.776	74.000	PEAK
2		3250.000	-3.769	52.550	48.781	-25.219	74.000	PEAK
3		4873.960	-1.653	49.330	47.677	-26.323	74.000	PEAK
4	*	7309.360	5.571	46.180	51.750	-22.250	74.000	PEAK
5		9748.000	7.552	44.070	51.623	-22.377	74.000	PEAK
6		12176.480	9.892	39.330	49.222	-24.778	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 18 GHz to 25 GHz were not included is because their levels are less than limit .

Site : CB1	**Time : 2016/05/16 - 11:11**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1700 Dual Band Gigabit Router	**Note : Mode 1: TX_CDD Mode (11b/g)_ ADP1 _802.11b_2462MHz**

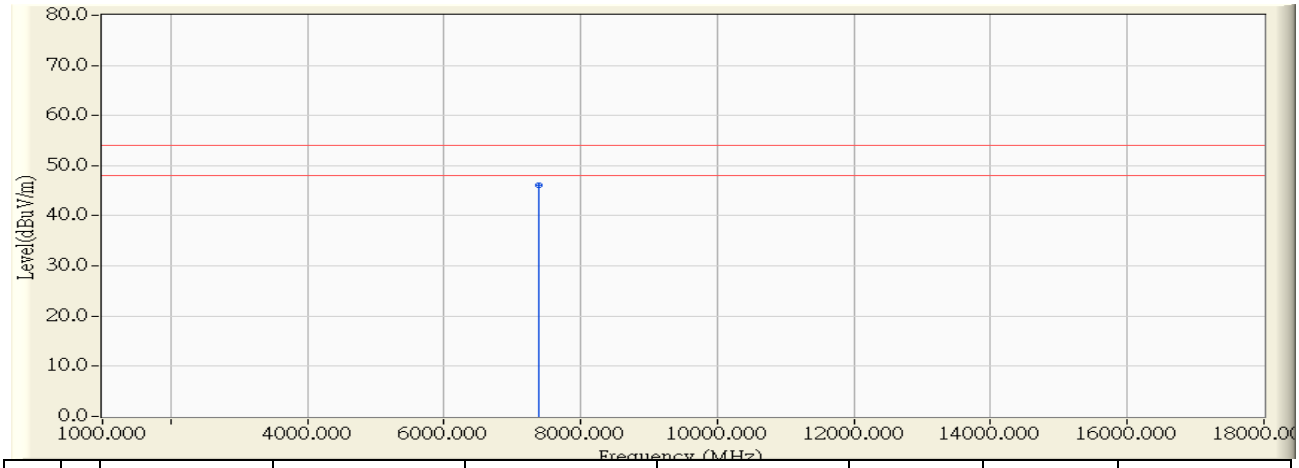


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1642.000	-9.641	58.090	48.449	-25.551	74.000	PEAK
2		3283.000	-6.033	47.420	41.387	-32.613	74.000	PEAK
3		4923.980	-2.291	45.280	42.989	-31.011	74.000	PEAK
4		7385.740	6.220	46.480	52.701	-21.299	74.000	PEAK
5	*	9847.780	8.741	44.030	52.771	-21.229	74.000	PEAK
6		12313.260	10.036	39.920	49.955	-24.045	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 18 GHz to 25 GHz were not included is because their levels are less than limit .

Site : CB1	**Time : 2016/05/16 - 11:11**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1700 Dual Band Gigabit Router	**Note : Mode 1: TX_CDD Mode (11b/g)_ ADP1 _802.11b_2462MHz**

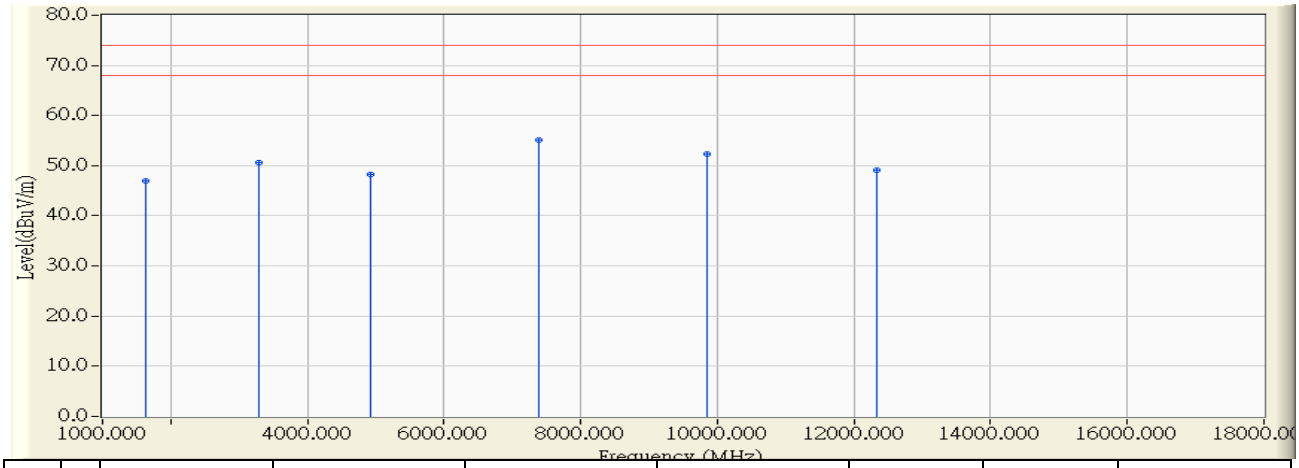


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7385.180	6.220	39.840	46.060	-7.940	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18 GHz to 25 GHz were not included is because their levels are less than limit .

Site : CB1	**Time : 2016/05/16 - 11:34**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1700 Dual Band Gigabit Router	**Note : Mode 1: TX_CDD Mode (11b/g)_ ADP1 _802.11b_2462MHz**

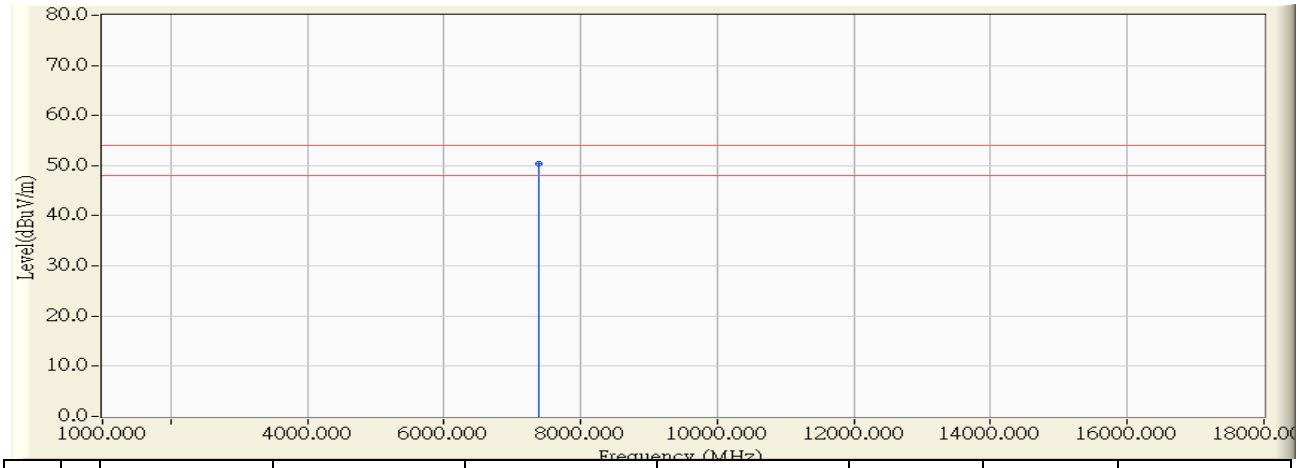


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1642.000	-9.300	56.300	47.000	-27.000	74.000	PEAK
2		3283.000	-3.733	54.360	50.627	-23.373	74.000	PEAK
3		4923.860	-1.644	49.830	48.186	-25.814	74.000	PEAK
4	*	7385.820	5.721	49.320	55.041	-18.959	74.000	PEAK
5		9848.040	7.945	44.340	52.284	-21.716	74.000	PEAK
6		12326.960	9.862	39.320	49.183	-24.817	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 18 GHz to 25 GHz were not included is because their levels are less than limit .

Site : CB1	**Time : 2016/05/16 - 11:36**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1700 Dual Band Gigabit Router	**Note : Mode 1: TX_CDD Mode (11b/g)_ ADP1 _802.11b_2462MHz**

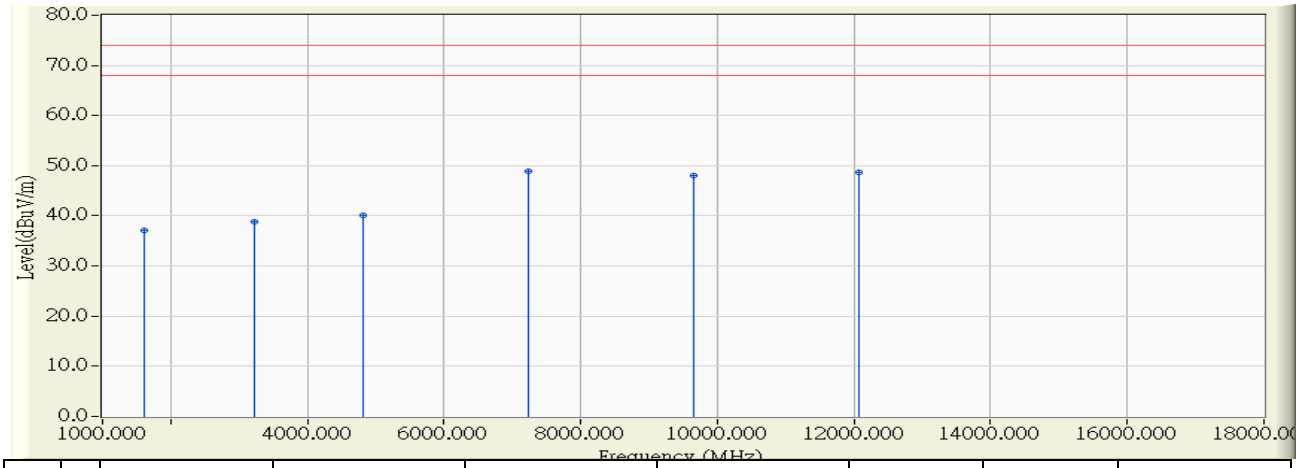


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7385.200	5.720	44.660	50.380	-3.620	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18 GHz to 25 GHz were not included is because their levels are less than limit .

Site : CB1	**Time : 2016/05/16 - 11:51**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1700 Dual Band Gigabit Router	**Note : Mode 1: TX_CDD Mode (11b/g)_ ADP1 _802.11g_2412MHz**

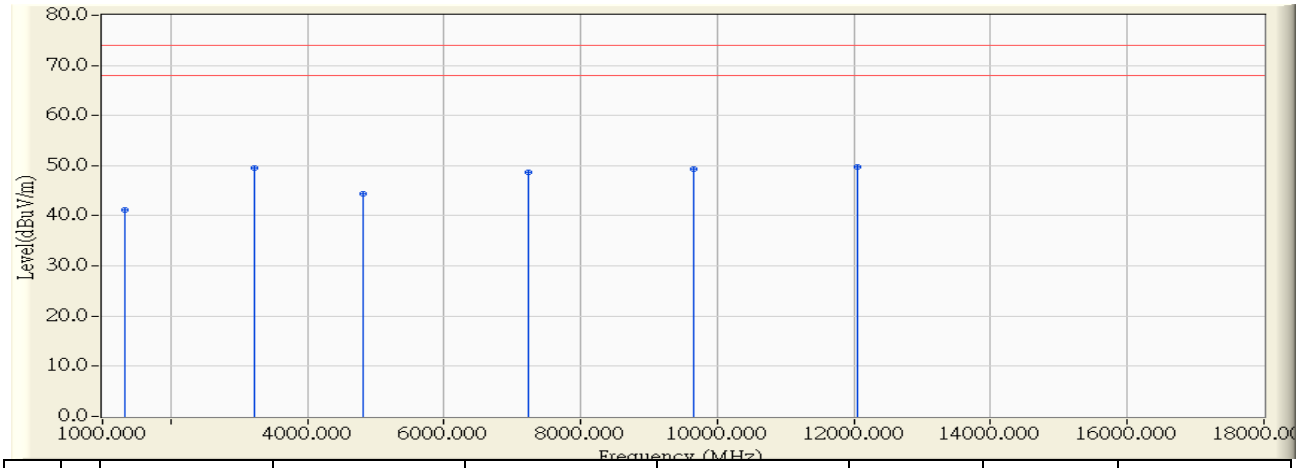


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1608.000	-9.650	46.660	37.011	-36.989	74.000	PEAK
2		3216.000	-6.038	44.810	38.772	-35.228	74.000	PEAK
3		4822.925	-2.562	42.720	40.158	-33.842	74.000	PEAK
4	*	7241.275	5.936	42.910	48.846	-25.154	74.000	PEAK
5		9655.750	7.701	40.320	48.021	-25.979	74.000	PEAK
6		12064.175	10.333	38.330	48.662	-25.338	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18 GHz to 25 GHz were not included is because their levels are less than limit .

Site : CB1	**Time : 2016/05/16 - 11:57**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1700 Dual Band Gigabit Router	**Note : Mode 1: TX_CDD Mode (11b/g)_ ADP1 _802.11g_2412MHz**

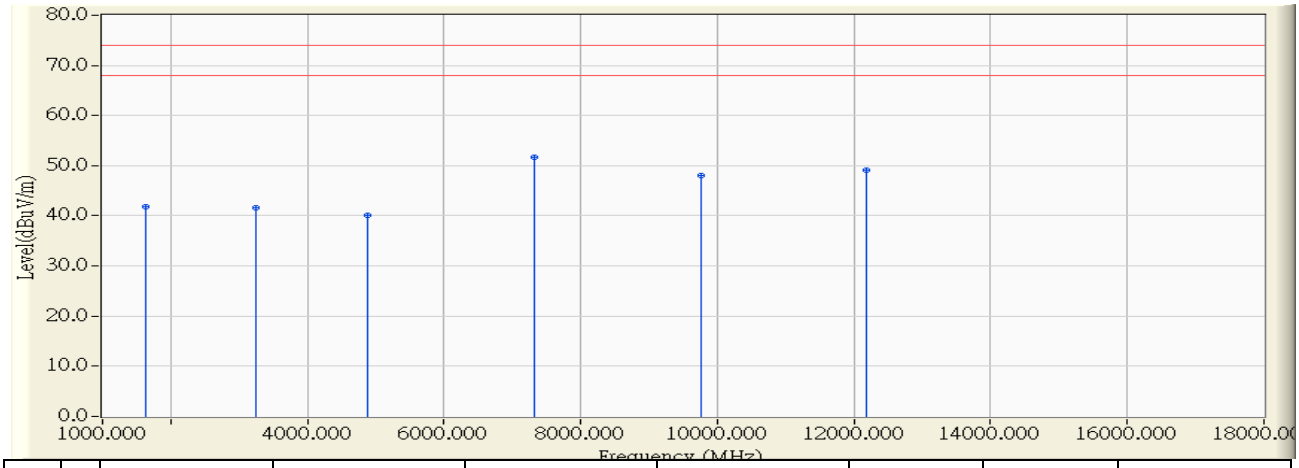


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1331.000	-9.466	50.570	41.104	-32.896	74.000	PEAK
2		3216.000	-3.805	53.380	49.575	-24.425	74.000	PEAK
3		4822.925	-1.662	46.080	44.418	-29.582	74.000	PEAK
4		7242.300	5.439	43.310	48.748	-25.252	74.000	PEAK
5		9657.370	7.198	42.130	49.328	-24.672	74.000	PEAK
6	*	12060.225	9.914	39.800	49.714	-24.286	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 18 GHz to 25 GHz were not included is because their levels are less than limit .

Site : CB1	**Time : 2016/05/16 - 13:10**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1700 Dual Band Gigabit Router	**Note : Mode 1: TX_CDD Mode (11b/g)_ ADP1 _802.11g_2437MHz**

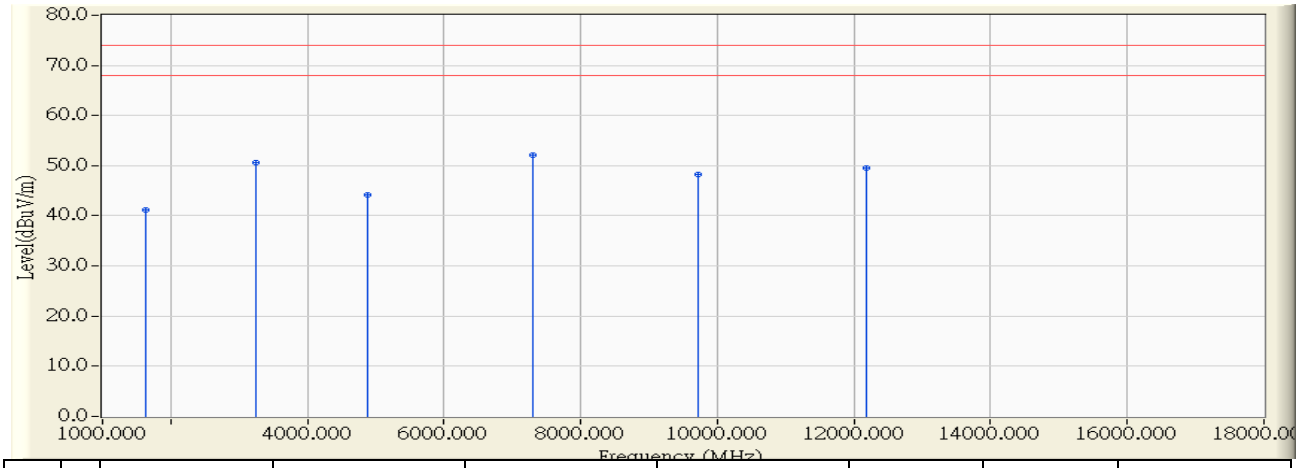


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1631.500	-9.643	51.390	41.747	-32.253	74.000	PEAK
2		3248.500	-6.036	47.700	41.664	-32.336	74.000	PEAK
3		4878.625	-2.413	42.620	40.207	-33.793	74.000	PEAK
4	*	7317.450	6.086	45.580	51.666	-22.334	74.000	PEAK
5		9754.600	8.236	39.830	48.066	-25.934	74.000	PEAK
6		12173.750	10.202	38.890	49.092	-24.908	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 18 GHz to 25 GHz were not included is because their levels are less than limit .

Site : CB1	**Time : 2016/05/16 - 13:17**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1700 Dual Band Gigabit Router	**Note : Mode 1: TX_CDD Mode (11b/g)_ ADP1 _802.11g_2437MHz**

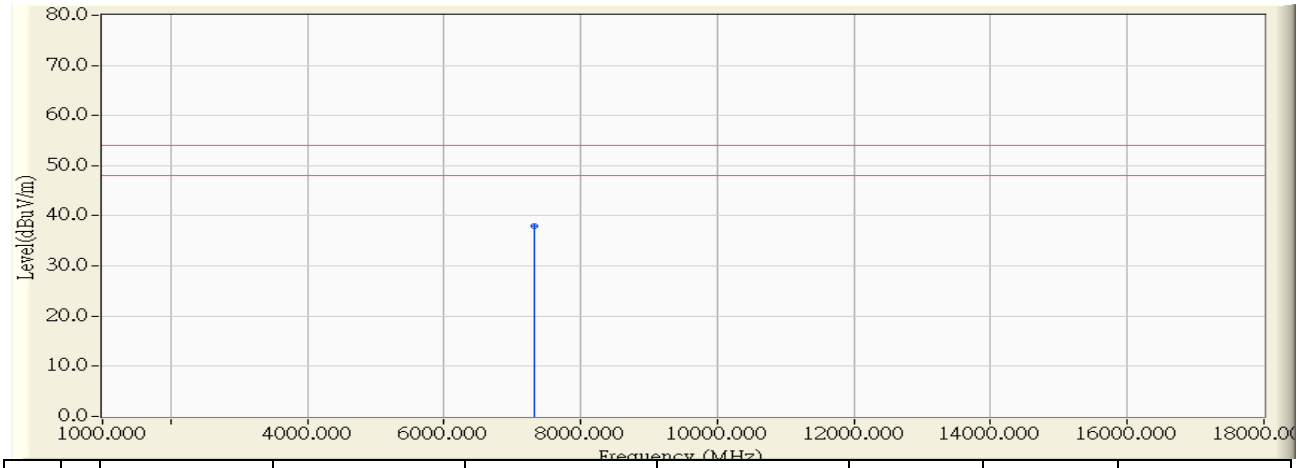


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1631.500	-9.292	50.390	41.098	-32.902	74.000	PEAK
2		3250.000	-3.769	54.280	50.511	-23.489	74.000	PEAK
3		4872.185	-1.653	45.890	44.237	-29.763	74.000	PEAK
4	*	7302.750	5.557	46.600	52.157	-21.843	74.000	PEAK
5		9728.000	7.474	40.840	48.314	-25.686	74.000	PEAK
6		12179.725	9.891	39.760	49.651	-24.349	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18 GHz to 25 GHz were not included is because their levels are less than limit .

Site : CB1	**Time : 2016/05/16 - 13:19**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1700 Dual Band Gigabit Router	**Note : Mode 1: TX_CDD Mode (11b/g)_ ADP1 _802.11g_2437MHz**

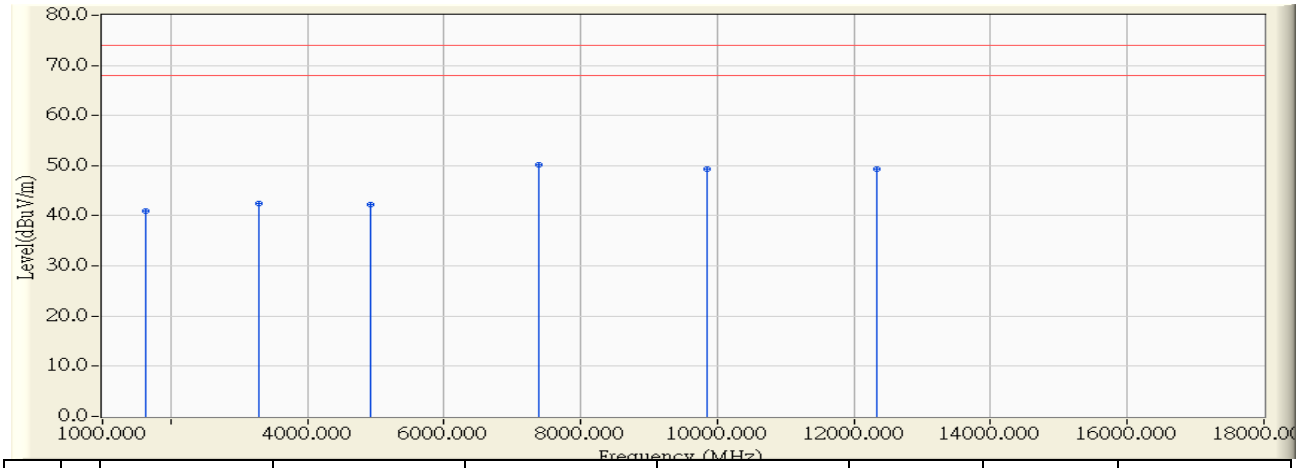


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7313.875	5.580	32.400	37.979	-16.021	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18 GHz to 25 GHz were not included is because their levels are less than limit .

Site : CB1	**Time : 2016/05/16 - 13:41**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1700 Dual Band Gigabit Router	**Note : Mode 1: TX_CDD Mode (11b/g)_ ADP1 _802.11g_2462MHz**

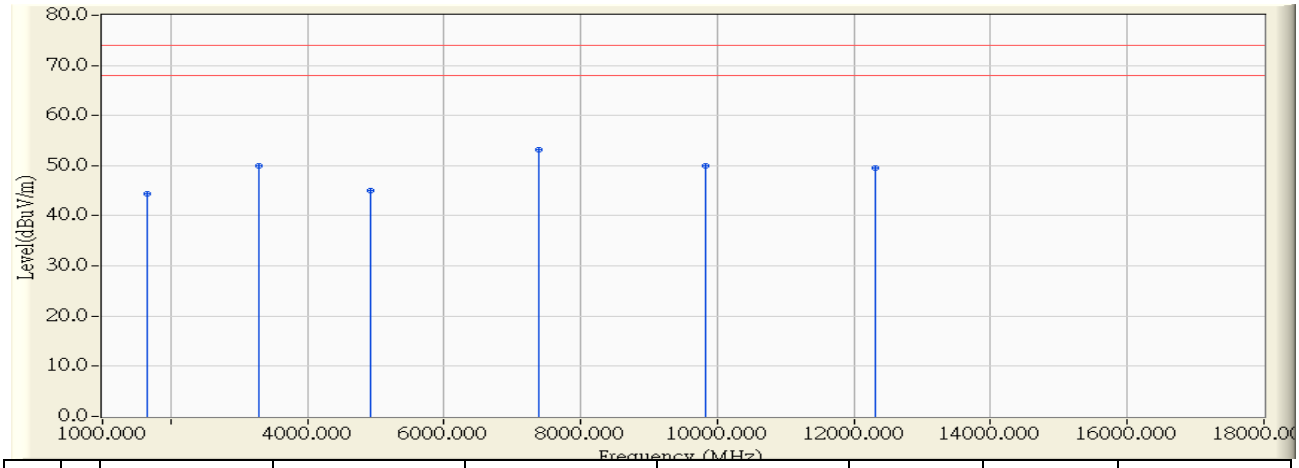


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1639.000	-9.641	50.550	40.909	-33.091	74.000	PEAK
2		3283.000	-6.033	48.440	42.407	-31.593	74.000	PEAK
3		4926.150	-2.285	44.510	42.225	-31.775	74.000	PEAK
4	*	7380.075	6.210	44.060	50.269	-23.731	74.000	PEAK
5		9838.450	8.690	40.590	49.280	-24.720	74.000	PEAK
6		12331.625	10.014	39.330	49.343	-24.657	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 18 GHz to 25 GHz were not included is because their levels are less than limit .

Site : CB1	**Time : 2016/05/16 - 14:06**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1700 Dual Band Gigabit Router	**Note : Mode 1: TX_CDD Mode (11b/g)_ ADP1 _802.11g_2462MHz**

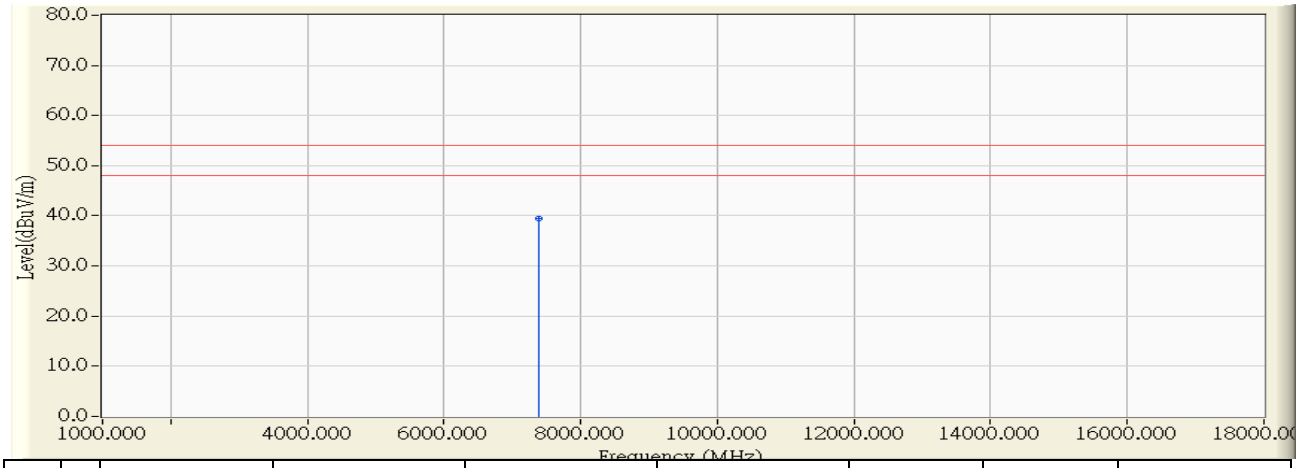


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1664.500	-9.316	53.650	44.334	-29.666	74.000	PEAK
2		3283.000	-3.733	53.640	49.907	-24.093	74.000	PEAK
3		4926.600	-1.643	46.580	44.937	-29.063	74.000	PEAK
4	*	7385.500	5.721	47.510	53.230	-20.770	74.000	PEAK
5		9831.575	7.880	42.130	50.010	-23.990	74.000	PEAK
6		12305.000	9.867	39.610	49.477	-24.523	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 18 GHz to 25 GHz were not included is because their levels are less than limit .

Site : CB1	**Time : 2016/05/16 - 14:10**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1700 Dual Band Gigabit Router	**Note : Mode 1: TX_CDD Mode (11b/g)_ ADP1 _802.11g_2462MHz**

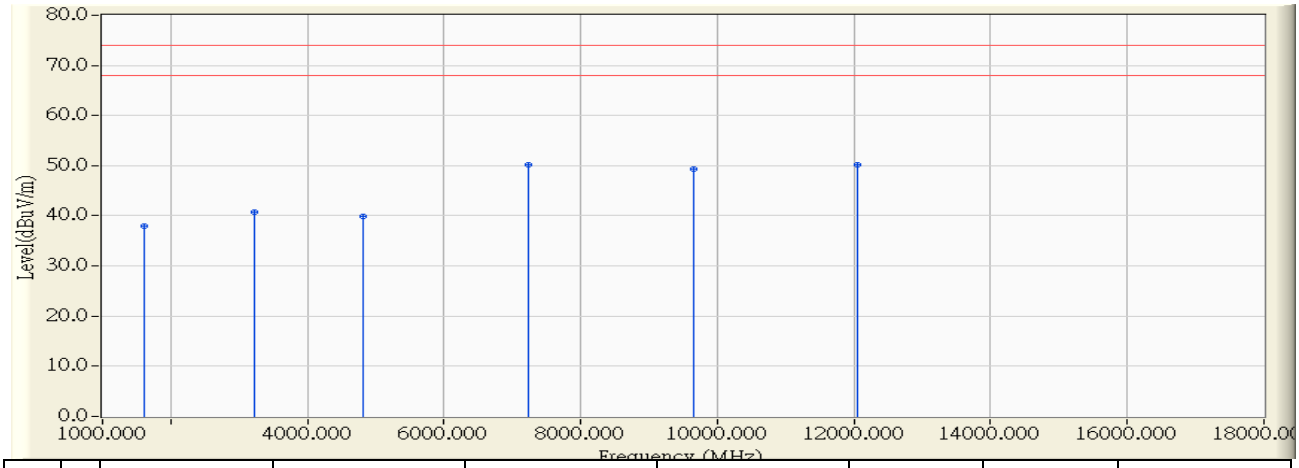


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7385.650	5.720	33.710	39.430	-14.570	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18 GHz to 25 GHz were not included is because their levels are less than limit .

Site : CB1	**Time : 2016/05/16 - 14:27**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1700 Dual Band Gigabit Router	**Note : Mode 2: TX_Beamforming Mode (11 n20/n40)_ ADP1 _802.11n(20M)_2412MHz**

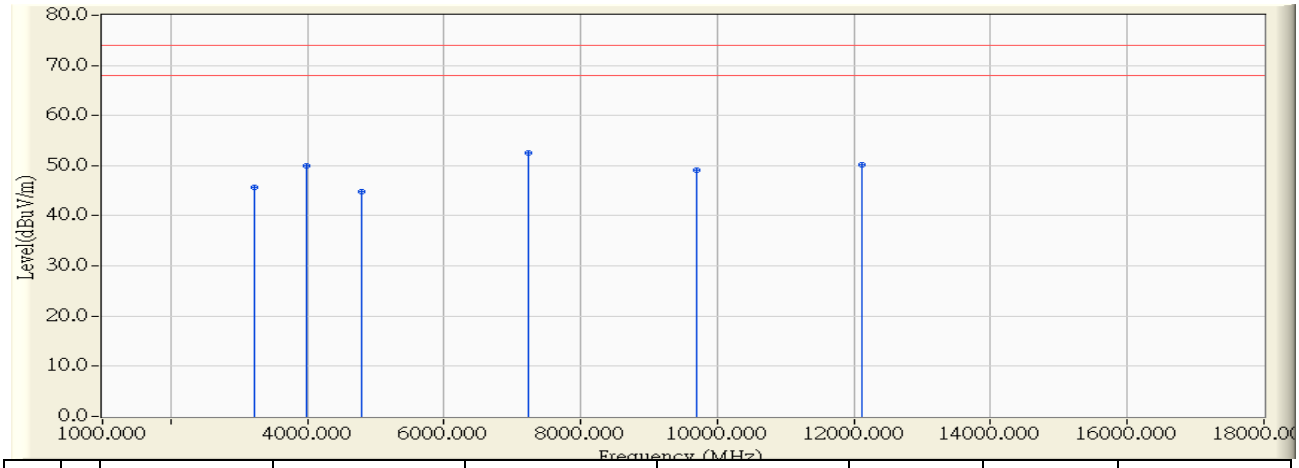


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1608.000	-9.650	47.510	37.861	-36.139	74.000	PEAK
2		3215.500	-6.038	46.840	40.802	-33.198	74.000	PEAK
3		4809.900	-2.598	42.500	39.903	-34.097	74.000	PEAK
4		7237.150	5.928	44.190	50.118	-23.882	74.000	PEAK
5		9656.400	7.704	41.550	49.254	-24.746	74.000	PEAK
6	*	12045.425	10.354	39.870	50.225	-23.775	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 18 GHz to 25 GHz were not included is because their levels are less than limit .

Site : CB1	**Time : 2016/05/16 - 14:33**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1700 Dual Band Gigabit Router	**Note : Mode 2: TX_Beamforming Mode (11 n20/n40)_ ADP1 _802.11n(20M)_2412MHz**

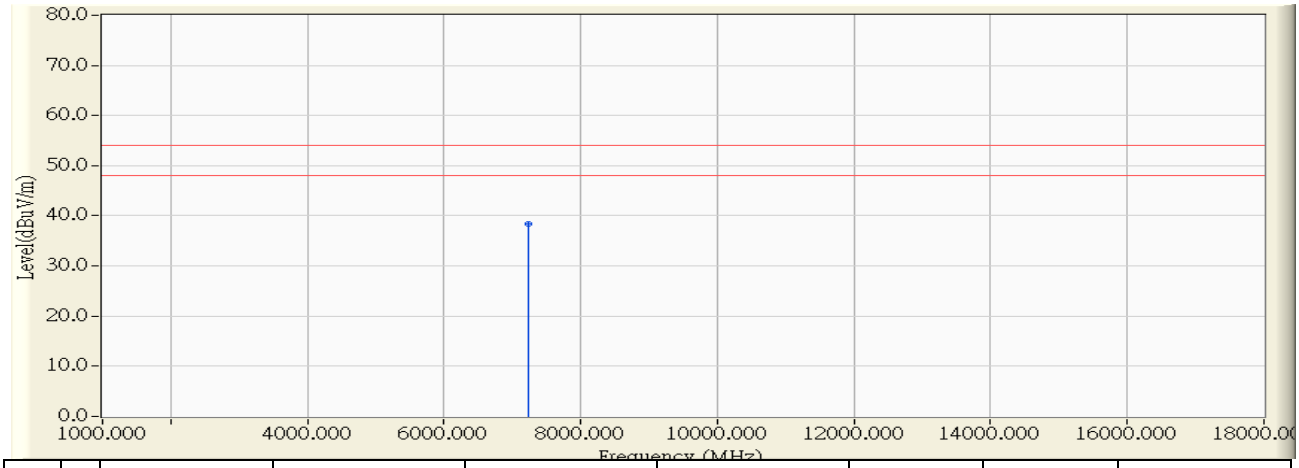


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		3216.000	-3.805	49.530	45.725	-28.275	74.000	PEAK
2		3995.000	-1.329	51.220	49.890	-24.110	74.000	PEAK
3		4800.000	-1.667	46.530	44.864	-29.136	74.000	PEAK
4	*	7240.300	5.435	47.210	52.644	-21.356	74.000	PEAK
5		9692.250	7.334	41.780	49.114	-24.886	74.000	PEAK
6		12109.520	9.904	40.280	50.185	-23.815	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 18 GHz to 25 GHz were not included is because their levels are less than limit .

Site : CB1	**Time : 2016/05/16 - 14:35**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1700 Dual Band Gigabit Router	**Note : Mode 2: TX_Beamforming Mode (11 n20/n40)_ ADP1 _802.11n(20M)_2412MHz**

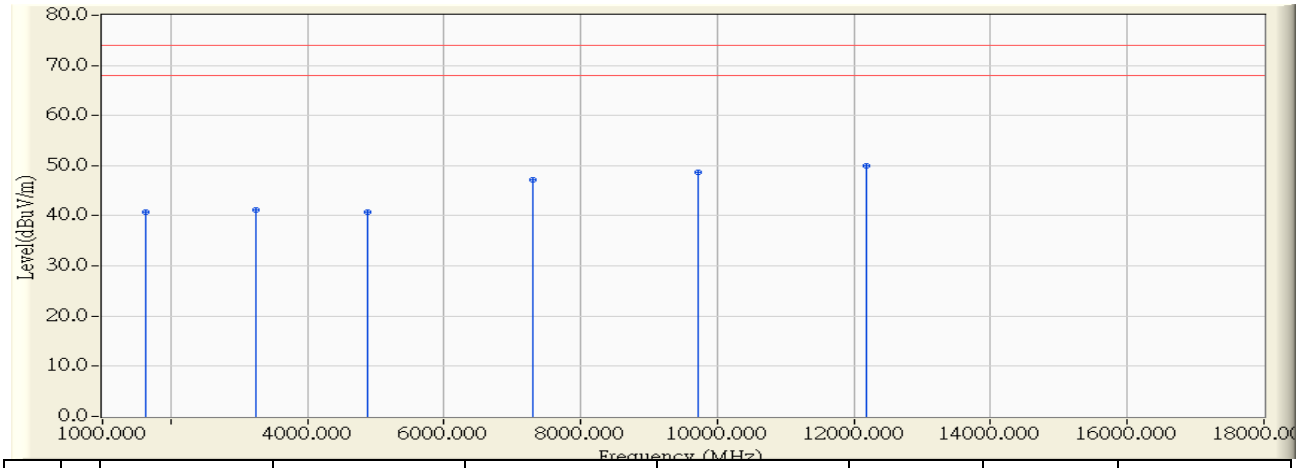


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7240.000	5.434	33.050	38.484	-15.516	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18 GHz to 25 GHz were not included is because their levels are less than limit .

Site : CB1	**Time : 2016/05/16 - 14:57**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1700 Dual Band Gigabit Router	**Note : Mode 2: TX_Beamforming Mode (11 n20/n40)_ ADP1 _802.11n(20M)_2437MHz**

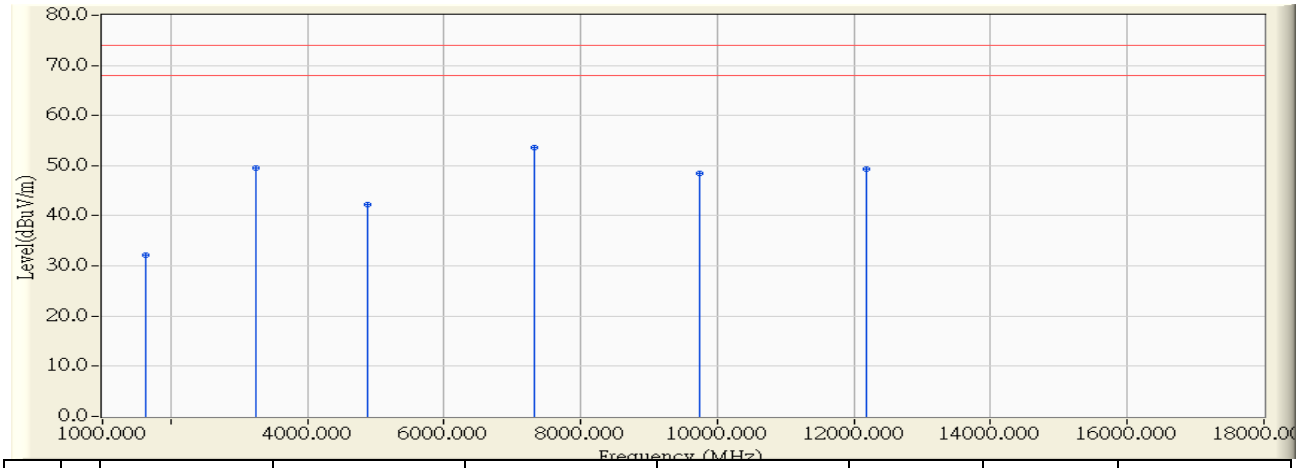


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1630.000	-9.644	50.380	40.736	-33.264	74.000	PEAK
2		3250.000	-6.036	47.290	41.254	-32.746	74.000	PEAK
3		4875.150	-2.423	43.130	40.708	-33.292	74.000	PEAK
4		7308.850	6.070	41.060	47.129	-26.871	74.000	PEAK
5		9710.300	7.997	40.780	48.776	-25.224	74.000	PEAK
6	*	12183.850	10.190	39.850	50.040	-23.960	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 18 GHz to 25 GHz were not included is because their levels are less than limit .

Site : CB1	**Time : 2016/05/16 - 15:06**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1700 Dual Band Gigabit Router	**Note : Mode 2: TX_Beamforming Mode (11 n20/n40)_ ADP1 _802.11n(20M)_2437MHz**

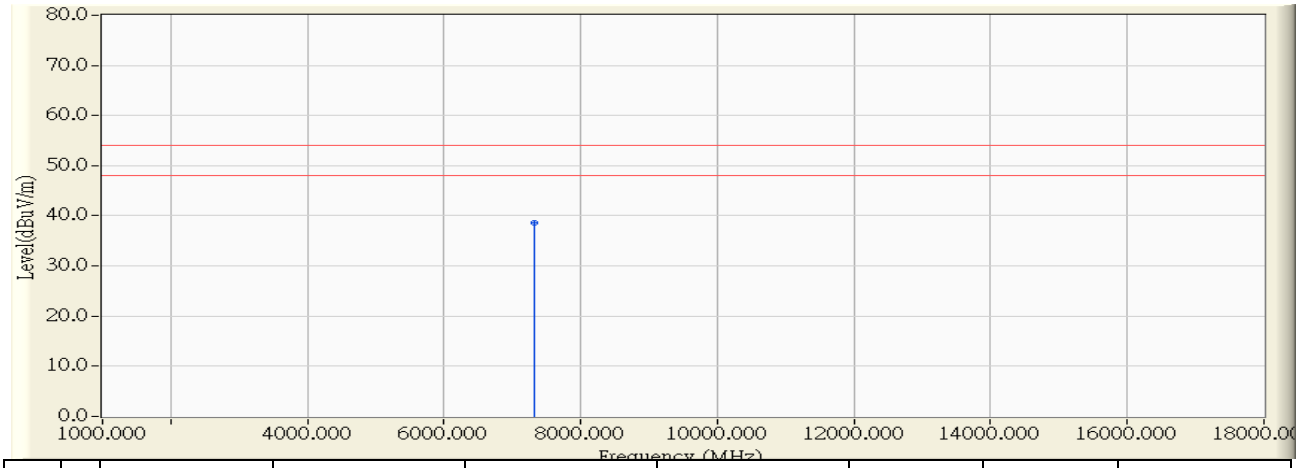


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1630.000	-9.291	41.380	32.089	-41.911	74.000	PEAK
2		3250.000	-3.769	53.280	49.511	-24.489	74.000	PEAK
3		4870.200	-1.654	43.820	42.166	-31.834	74.000	PEAK
4	*	7315.575	5.582	47.940	53.522	-20.478	74.000	PEAK
5		9745.350	7.542	40.910	48.452	-25.548	74.000	PEAK
6		12174.000	9.892	39.420	49.312	-24.688	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18 GHz to 25 GHz were not included is because their levels are less than limit .

Site : CB1	**Time : 2016/05/16 - 15:08**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1700 Dual Band Gigabit Router	**Note : Mode 2: TX_Beamforming Mode (11 n20/n40)_ ADP1 _802.11n(20M)_2437MHz**

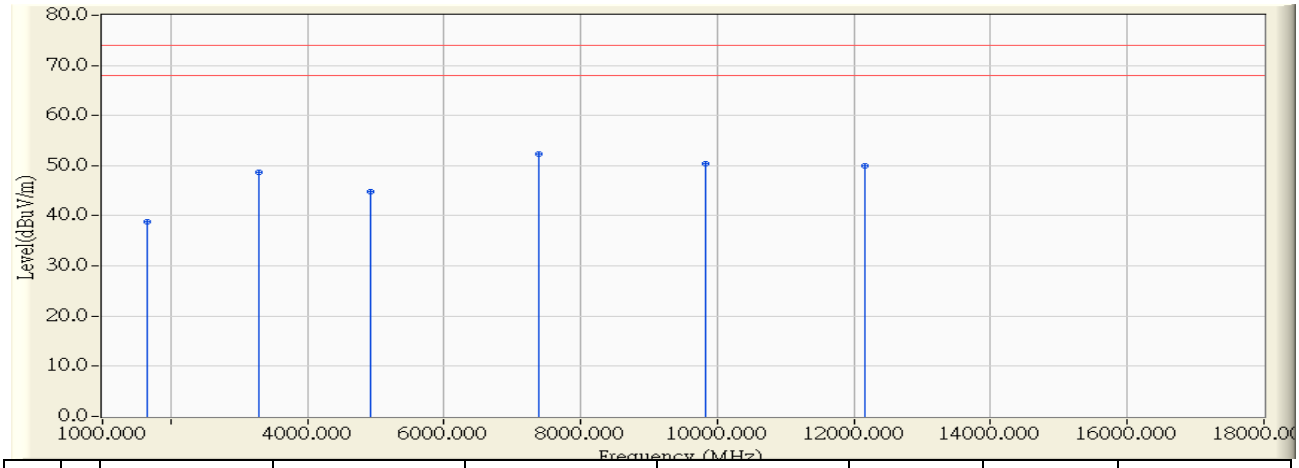


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7312.710	5.576	33.100	38.677	-15.323	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18 GHz to 25 GHz were not included is because their levels are less than limit .

Site : CB1	**Time : 2016/05/16 - 15:36**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1700 Dual Band Gigabit Router	**Note : Mode 2: TX_Beamforming Mode (11 n20/n40)_ ADP1 _802.11n(20M)_2462MHz**

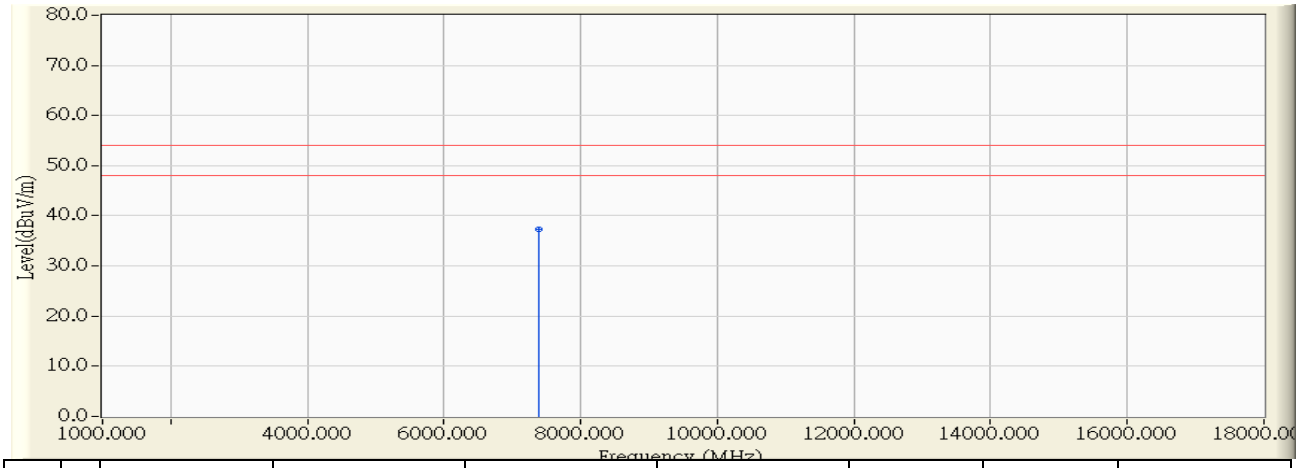


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1643.500	-9.641	48.450	38.810	-35.190	74.000	PEAK
2		3283.000	-6.033	54.680	48.647	-25.353	74.000	PEAK
3		4917.725	-2.308	47.050	44.742	-29.258	74.000	PEAK
4	*	7385.500	6.221	46.140	52.360	-21.640	74.000	PEAK
5		9829.375	8.642	41.740	50.381	-23.619	74.000	PEAK
6		12169.850	10.206	39.820	50.026	-23.974	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 18 GHz to 25 GHz were not included is because their levels are less than limit .

Site : CB1	**Time : 2016/05/16 - 15:42**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1700 Dual Band Gigabit Router	**Note : Mode 2: TX_Beamforming Mode (11 n20/n40)_ ADP1 _802.11n(20M)_2462MHz**

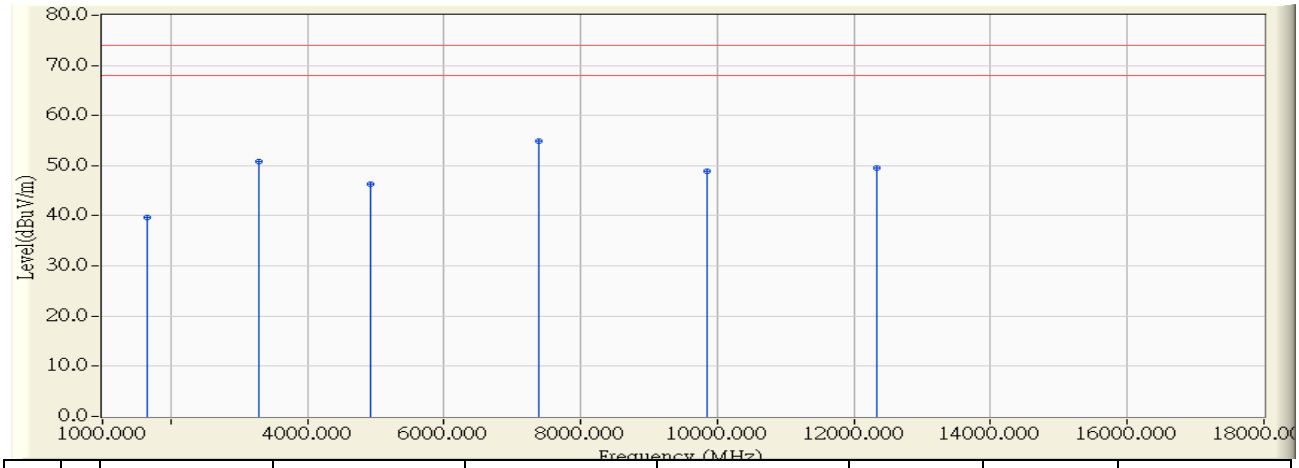


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7384.925	6.220	31.170	37.389	-16.611	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18 GHz to 25 GHz were not included is because their levels are less than limit .

Site : CB1	**Time : 2016/05/16 - 15:47**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1700 Dual Band Gigabit Router	**Note : Mode 2: TX_Beamforming Mode (11 n20/n40)_ ADP1 _802.11n(20M)_2462MHz**

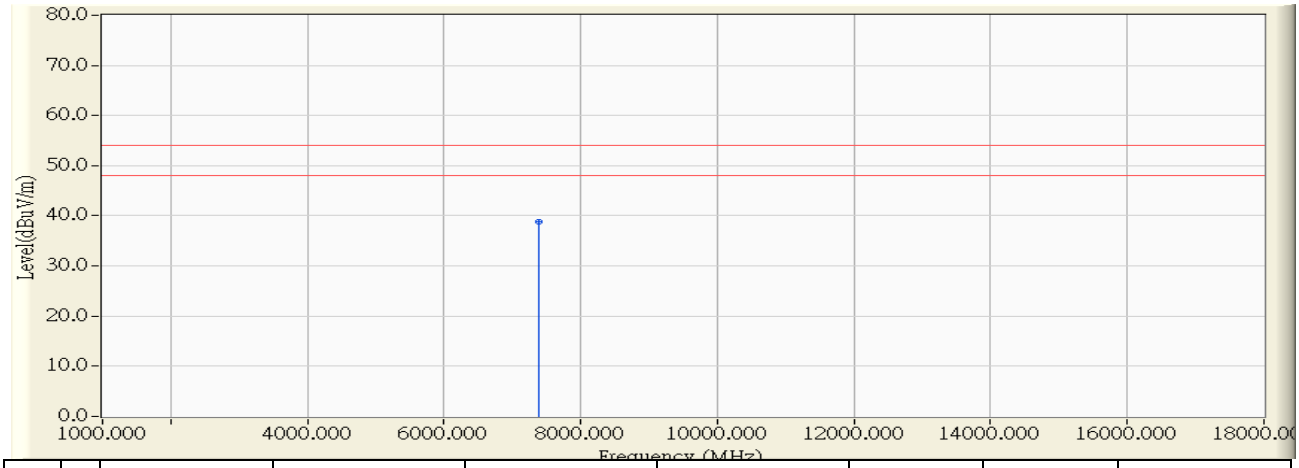


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1649.500	-9.305	49.060	39.755	-34.245	74.000	PEAK
2		3283.000	-3.733	54.480	50.747	-23.253	74.000	PEAK
3		4918.675	-1.645	47.910	46.265	-27.735	74.000	PEAK
4	*	7384.475	5.718	49.160	54.878	-19.122	74.000	PEAK
5		9843.150	7.926	40.940	48.865	-25.135	74.000	PEAK
6		12331.050	9.862	39.720	49.582	-24.418	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 18 GHz to 25 GHz were not included is because their levels are less than limit .

Site : CB1	**Time : 2016/05/16 - 15:49**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1700 Dual Band Gigabit Router	**Note : Mode 2: TX_Beamforming Mode (11 n20/n40)_ ADP1 _802.11n(20M)_2462MHz**

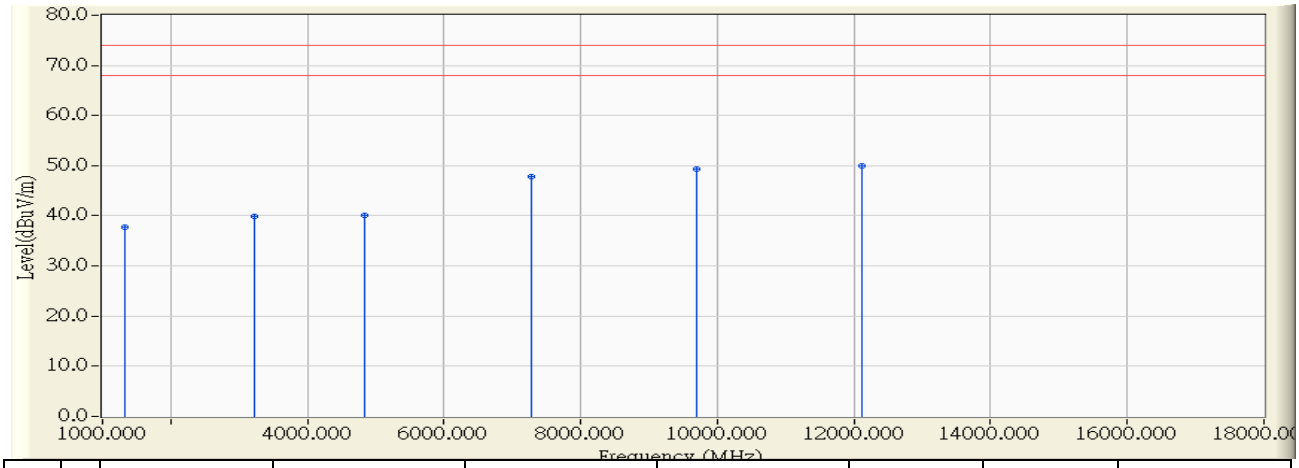


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7392.200	5.733	33.080	38.813	-15.187	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18 GHz to 25 GHz were not included is because their levels are less than limit .

Site : CB1	**Time : 2016/05/16 - 16:06**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1700 Dual Band Gigabit Router	**Note : Mode 2: TX_Beamforming Mode (11 n20/n40)_ ADP1 _802.11n(40M)_2422MHz**

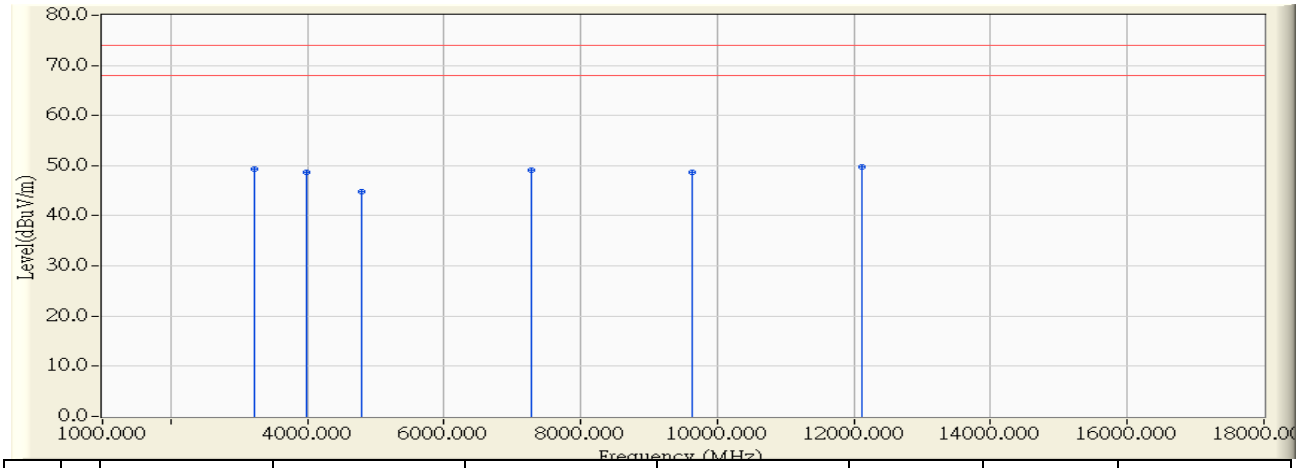


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1332.000	-10.115	47.830	37.715	-36.285	74.000	PEAK
2		3229.000	-6.037	45.910	39.873	-34.127	74.000	PEAK
3		4841.350	-2.513	42.710	40.197	-33.803	74.000	PEAK
4		7269.300	5.992	41.880	47.871	-26.129	74.000	PEAK
5		9693.925	7.907	41.430	49.337	-24.663	74.000	PEAK
6	*	12119.150	10.266	39.620	49.887	-24.113	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18 GHz to 25 GHz were not included is because their levels are less than limit .

Site : CB1	**Time : 2016/05/16 - 16:15**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1700 Dual Band Gigabit Router	**Note : Mode 2: TX_Beamforming Mode (11 n20/n40)_ ADP1 _802.11n(40M)_2422MHz**

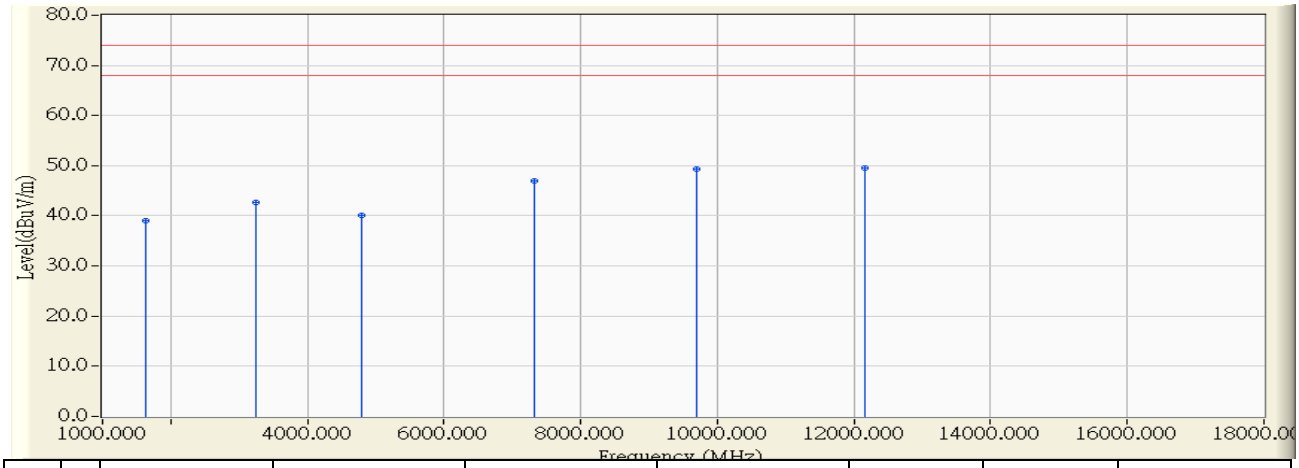


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		3229.000	-3.791	53.180	49.389	-24.611	74.000	PEAK
2		3995.000	-1.329	49.970	48.640	-25.360	74.000	PEAK
3		4792.800	-1.668	46.510	44.842	-29.158	74.000	PEAK
4		7285.900	5.524	43.530	49.054	-24.946	74.000	PEAK
5		9638.600	7.124	41.500	48.624	-25.376	74.000	PEAK
6	*	12105.500	9.906	39.790	49.695	-24.305	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 18 GHz to 25 GHz were not included is because their levels are less than limit .

Site : CB1	**Time : 2016/05/16 - 16:29**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1700 Dual Band Gigabit Router	**Note : Mode 2: TX_Beamforming Mode (11 n20/n40)_ ADP1 _802.11n(40M)_2437MHz**

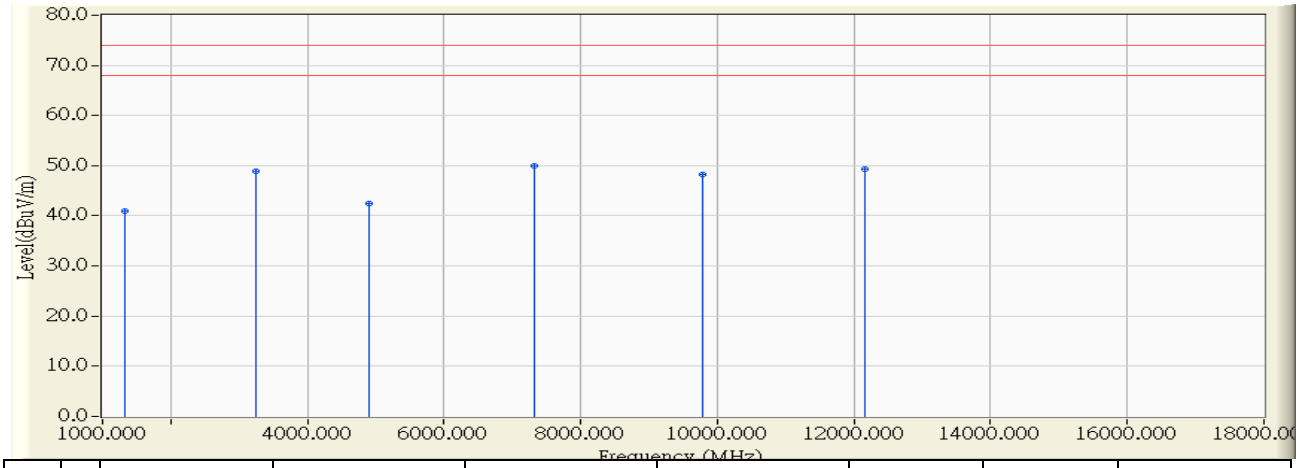


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1624.000	-9.645	48.700	39.055	-34.945	74.000	PEAK
2		3250.000	-6.036	48.660	42.624	-31.376	74.000	PEAK
3		4791.900	-2.645	42.780	40.135	-33.865	74.000	PEAK
4		7330.300	6.112	40.760	46.871	-27.129	74.000	PEAK
5		9690.600	7.889	41.430	49.319	-24.681	74.000	PEAK
6	*	12160.900	10.217	39.400	49.617	-24.383	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 18 GHz to 25 GHz were not included is because their levels are less than limit .

Site : CB1	**Time : 2016/05/16 - 16:42**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1700 Dual Band Gigabit Router	**Note : Mode 2: TX_Beamforming Mode (11 n20/n40)_ ADP1 _802.11n(40M)_2437MHz**

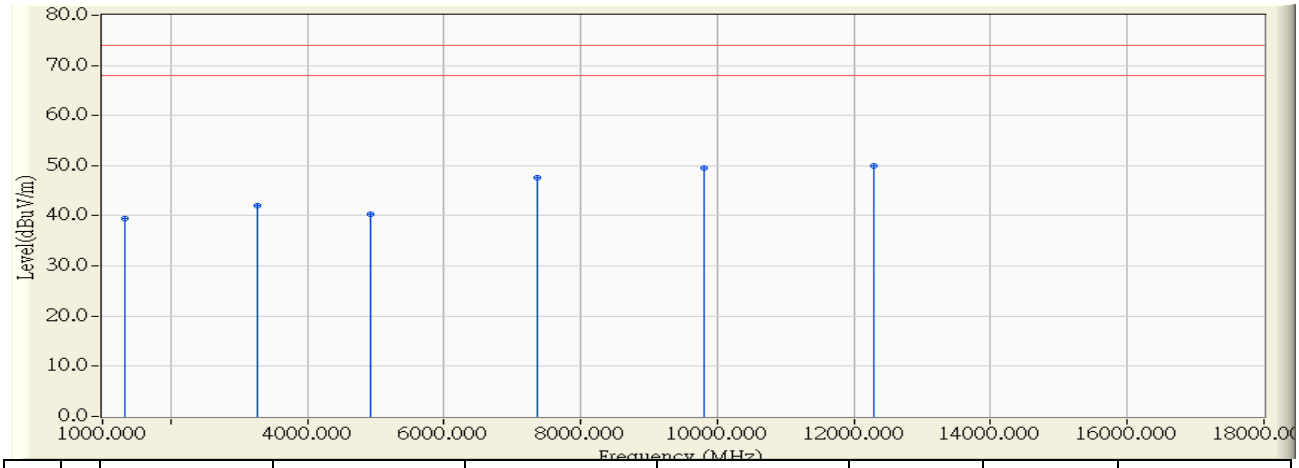


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1332.000	-9.464	50.400	40.936	-33.064	74.000	PEAK
2		3248.500	-3.771	52.650	48.880	-25.120	74.000	PEAK
3		4891.150	-1.650	44.070	42.420	-31.580	74.000	PEAK
4	*	7313.250	5.577	44.410	49.988	-24.012	74.000	PEAK
5		9782.450	7.688	40.500	48.188	-25.812	74.000	PEAK
6		12155.150	9.896	39.410	49.306	-24.694	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 18 GHz to 25 GHz were not included is because their levels are less than limit .

Site : CB1	**Time : 2016/05/16 - 16:53**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1700 Dual Band Gigabit Router	**Note : Mode 2: TX_Beamforming Mode (11 n20/n40)_ ADP1 _802.11n(40M)_2452MHz**

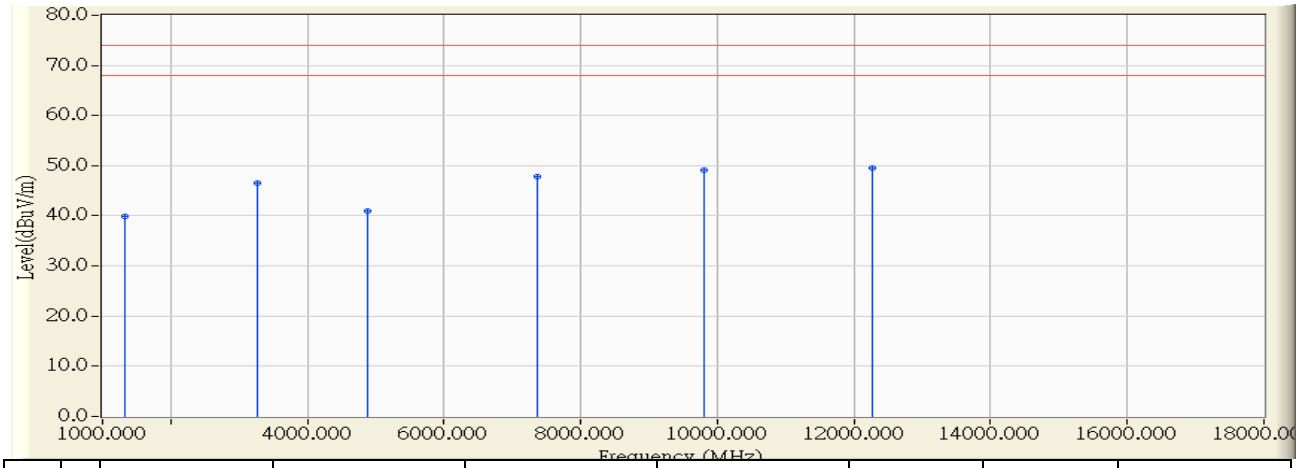


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1331.500	-10.116	49.550	39.434	-34.566	74.000	PEAK
2		3269.500	-6.035	48.010	41.976	-32.024	74.000	PEAK
3		4916.800	-2.310	42.580	40.269	-33.731	74.000	PEAK
4		7359.850	6.170	41.410	47.580	-26.420	74.000	PEAK
5		9809.300	8.532	41.000	49.532	-24.468	74.000	PEAK
6	*	12283.050	10.071	39.950	50.021	-23.979	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 18 GHz to 25 GHz were not included is because their levels are less than limit .

Site : CB1	**Time : 2016/05/16 - 17:01**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1700 Dual Band Gigabit Router	**Note : Mode 2: TX_Beamforming Mode (11 n20/n40)_ ADP1 _802.11n(40M)_2452MHz**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1331.500	-9.464	49.430	39.965	-34.035	74.000	PEAK
2		3269.500	-3.748	50.200	46.452	-27.548	74.000	PEAK
3		4885.300	-1.652	42.540	40.889	-33.111	74.000	PEAK
4		7358.750	5.668	42.080	47.747	-26.253	74.000	PEAK
5		9794.550	7.735	41.430	49.165	-24.835	74.000	PEAK
6	*	12264.450	9.875	39.720	49.595	-24.405	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18 GHz to 25 GHz were not included is because their levels are less than limit .

5. RF antenna conducted test

5.1. Test Equipment

The following test equipment are used during the test:

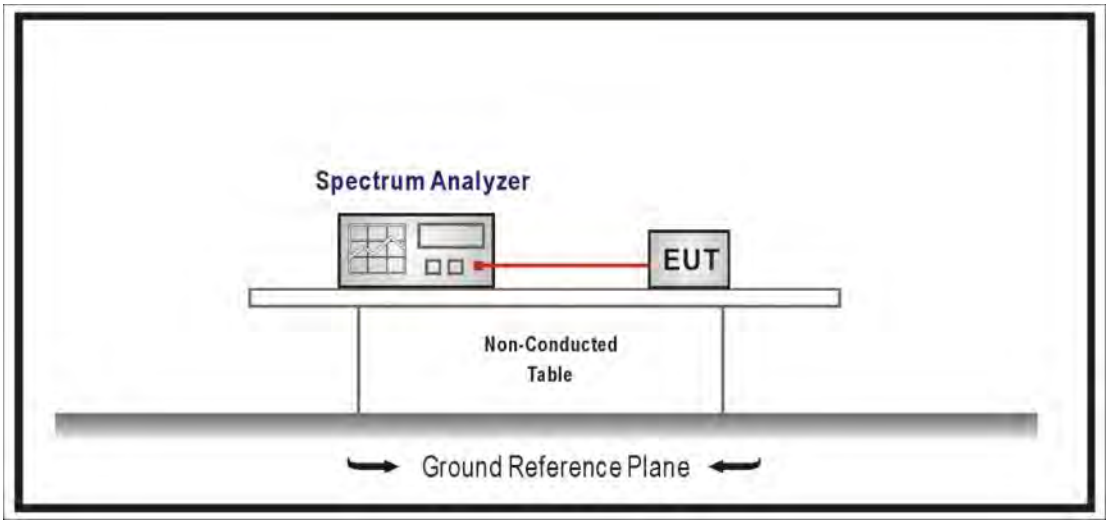
RF antenna conducted test / SR7

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

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

5.2. Test Setup

RF Antenna Conducted Measurement:



5.3. Limits

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

5.4. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure section 11.2 of KDB558074 v03r05 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: 2015

5.6. Uncertainty

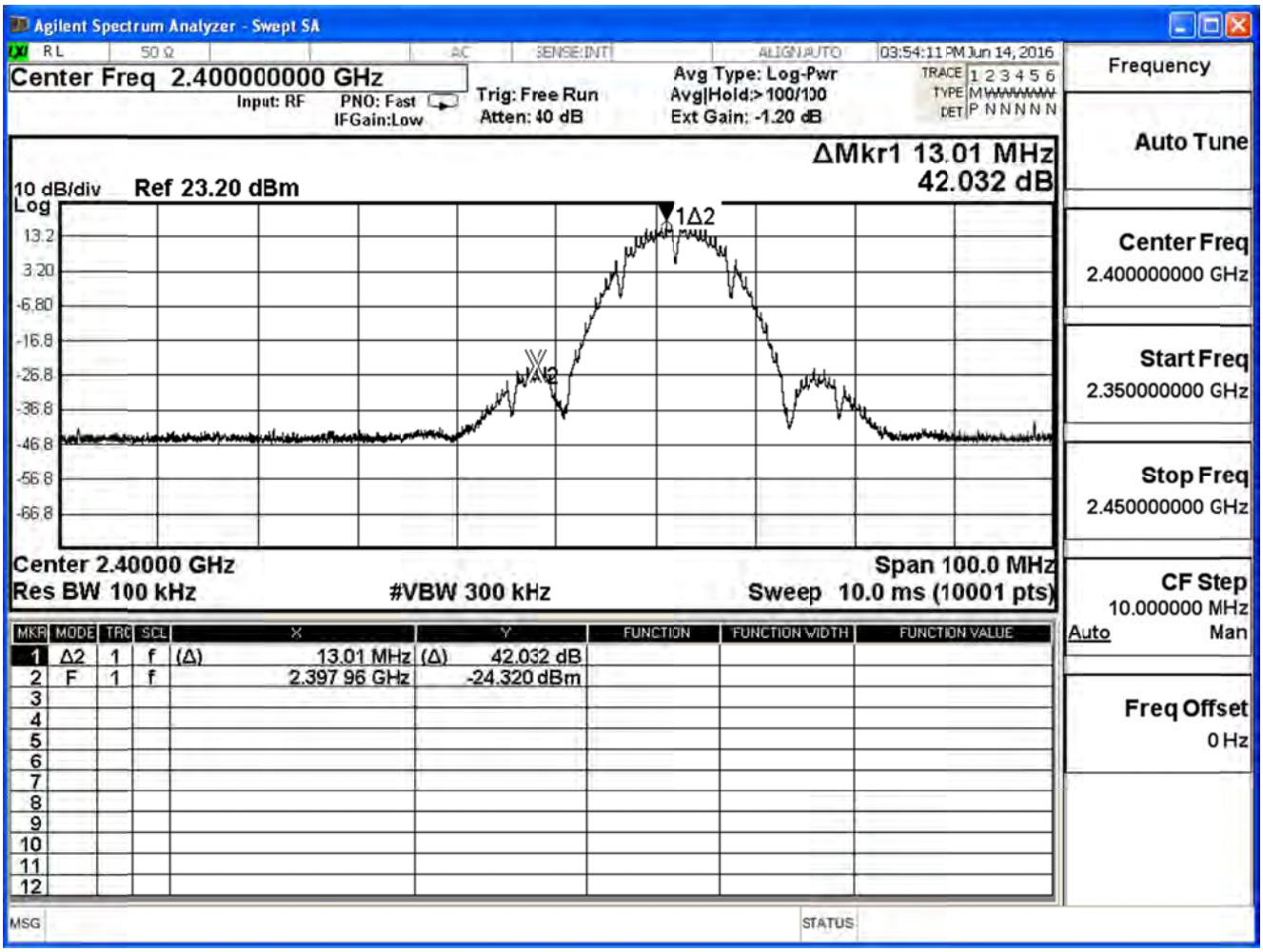
Conducted is defined as ± 1.27dB

5.7. Test Result

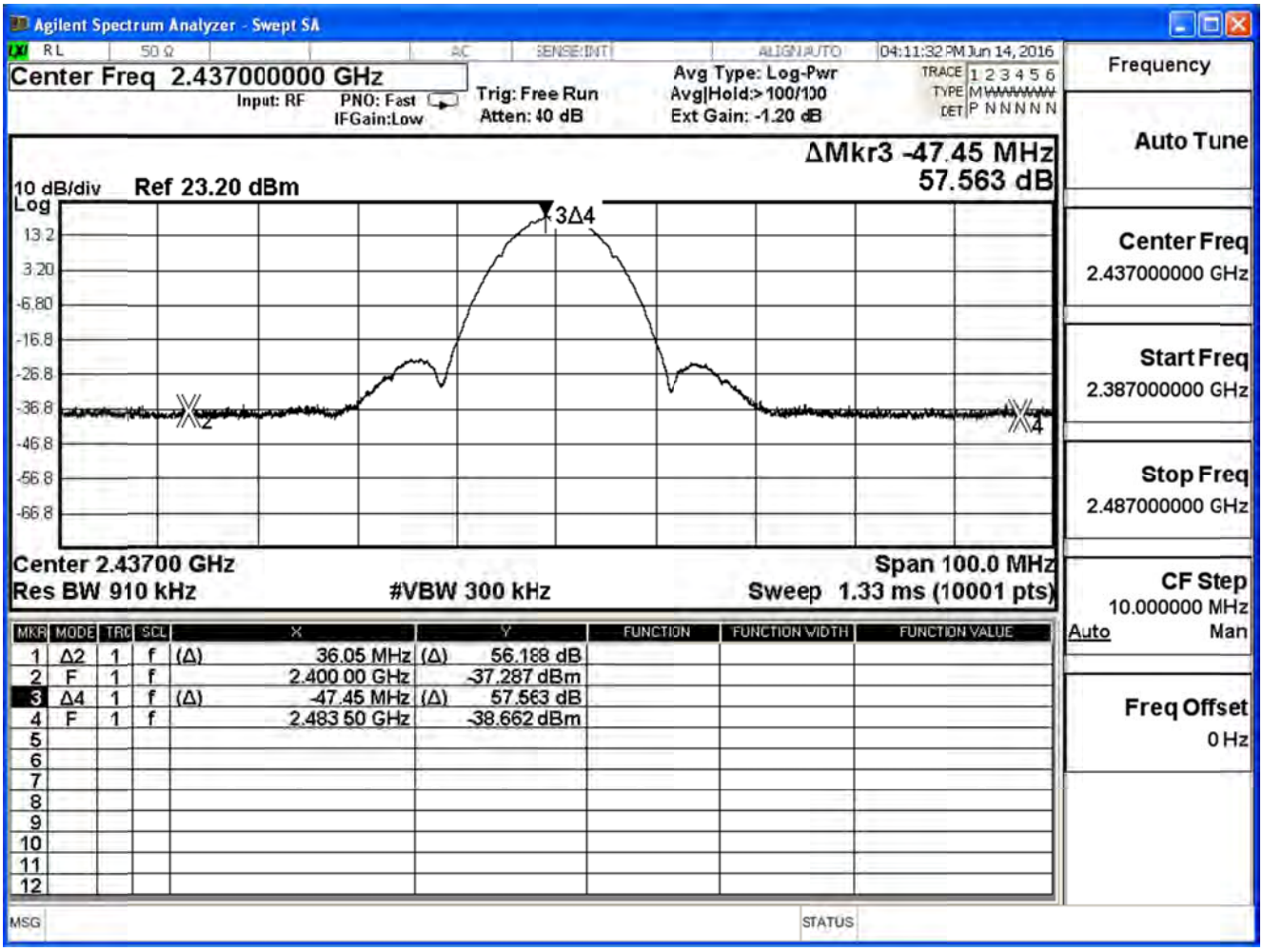
Product	Wireless-AC1700 Dual Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: TX_CDD Mode (11b/g)_ ADP1		
Date of Test	2016/06/14	Test Site	SR7

IEEE 802.11b, Ant0				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	42.032	≧30	Pass
6	2437	56.188	≧30	Pass
11	2462	57.098	≧30	Pass

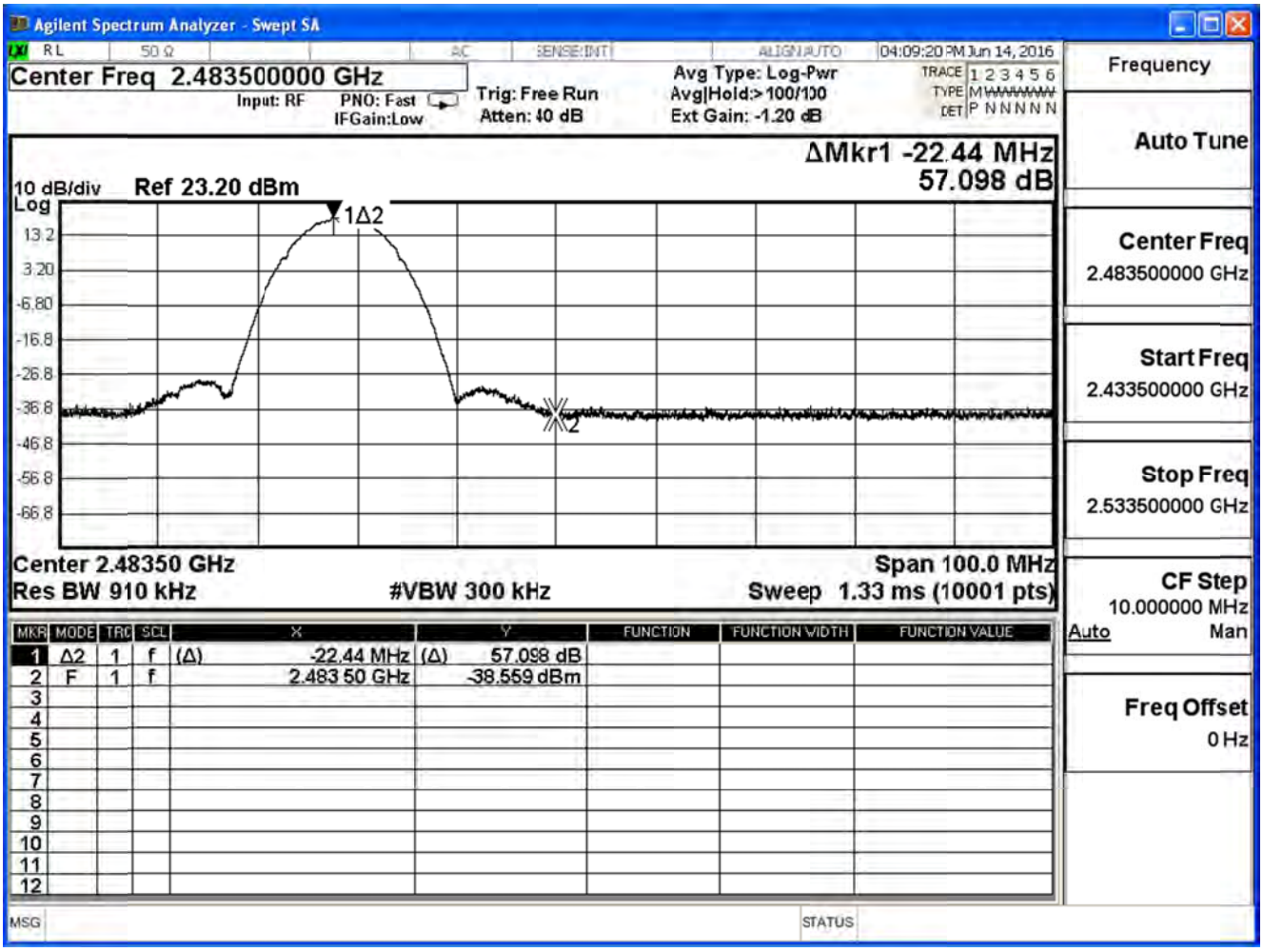
Channel 1 (2412MHz)



Channel 6 (2437MHz)



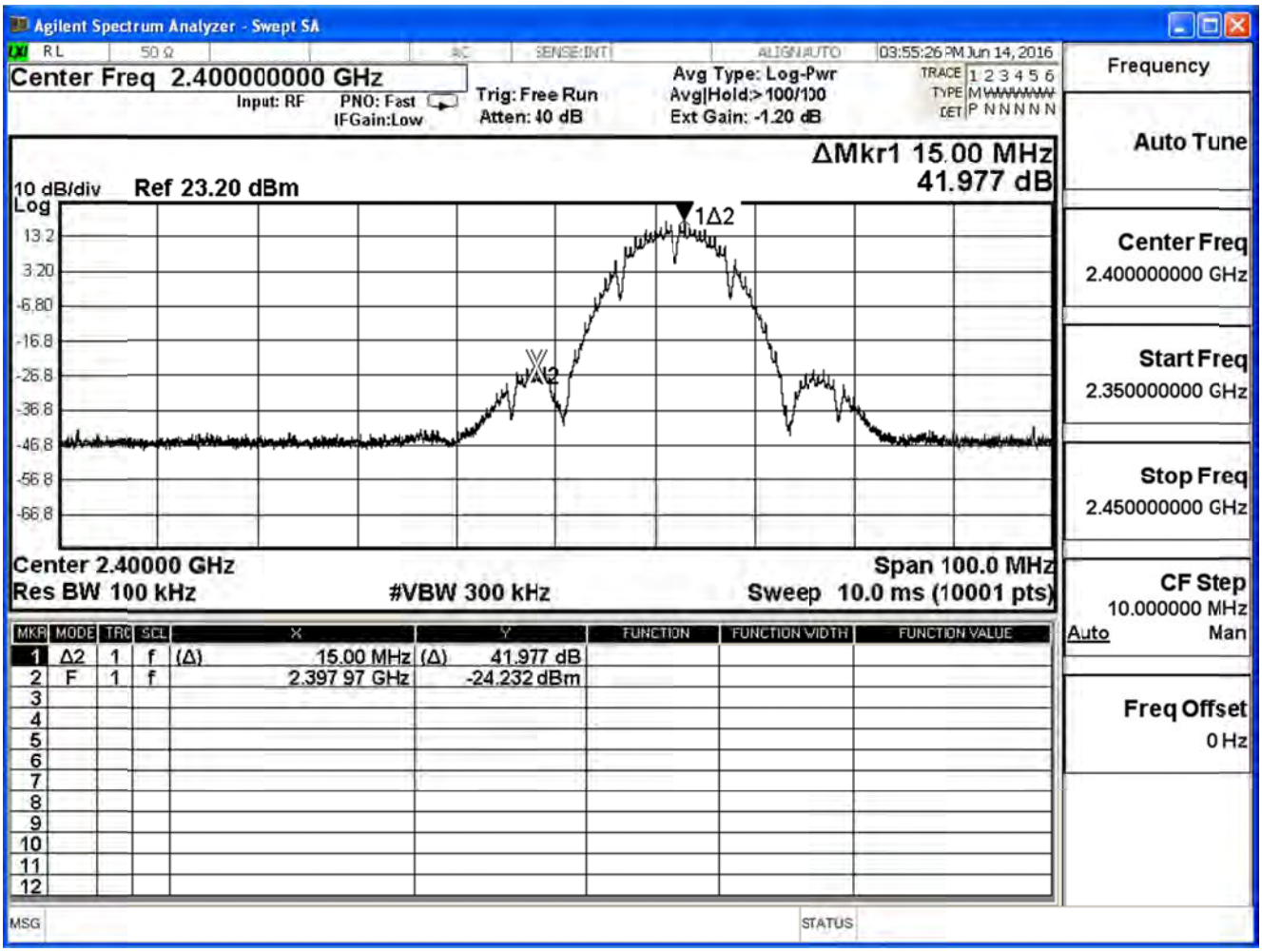
Channel 11 (2462MHz)



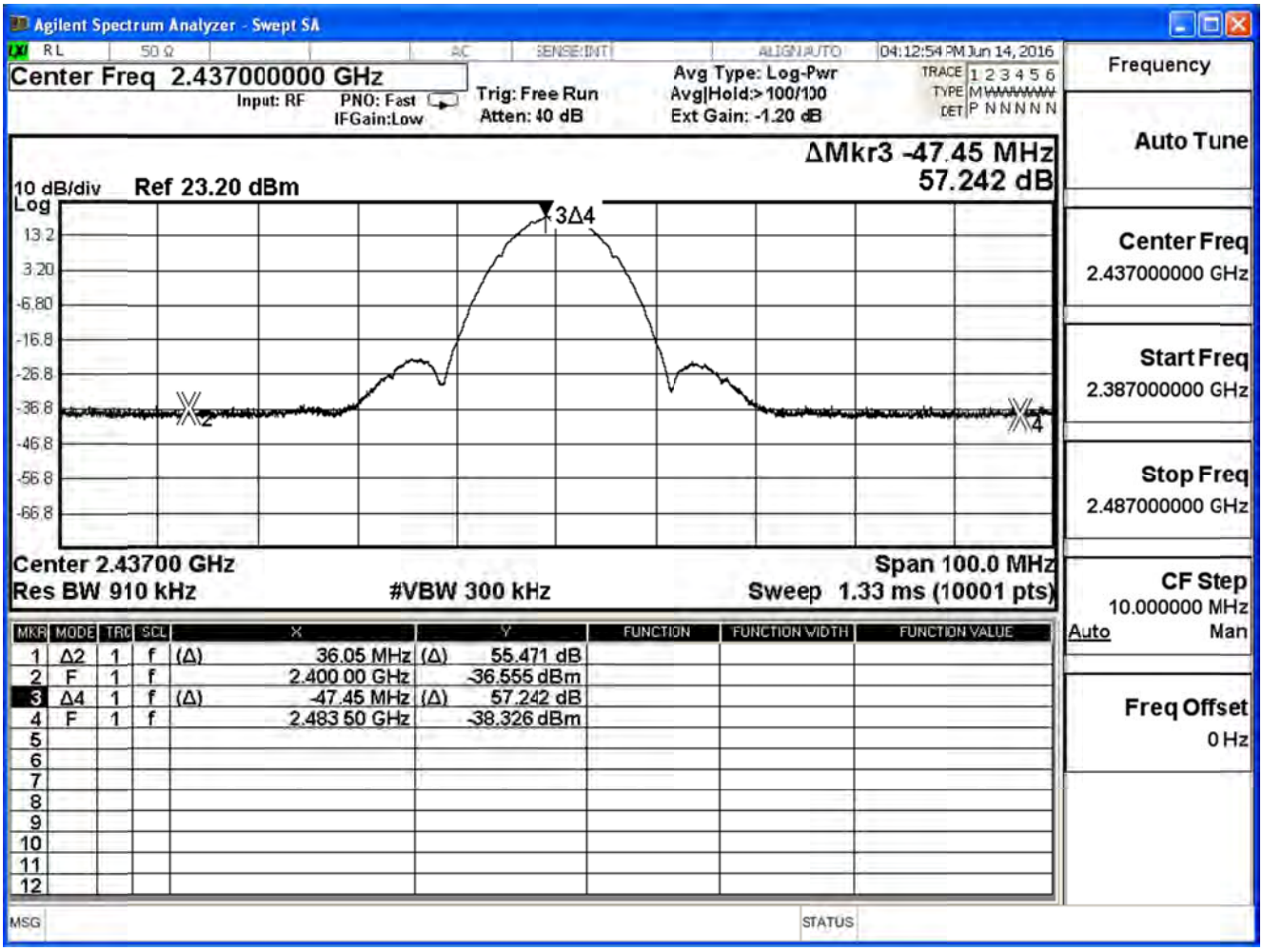
Product	Wireless-AC1700 Dual Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: TX_CDD Mode (11b/g)_ ADP1		
Date of Test	2016/06/14	Test Site	SR7

IEEE 802.11b, Ant1				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	41.977	≧30	Pass
6	2437	55.471	≧30	Pass
11	2462	57.640	≧30	Pass

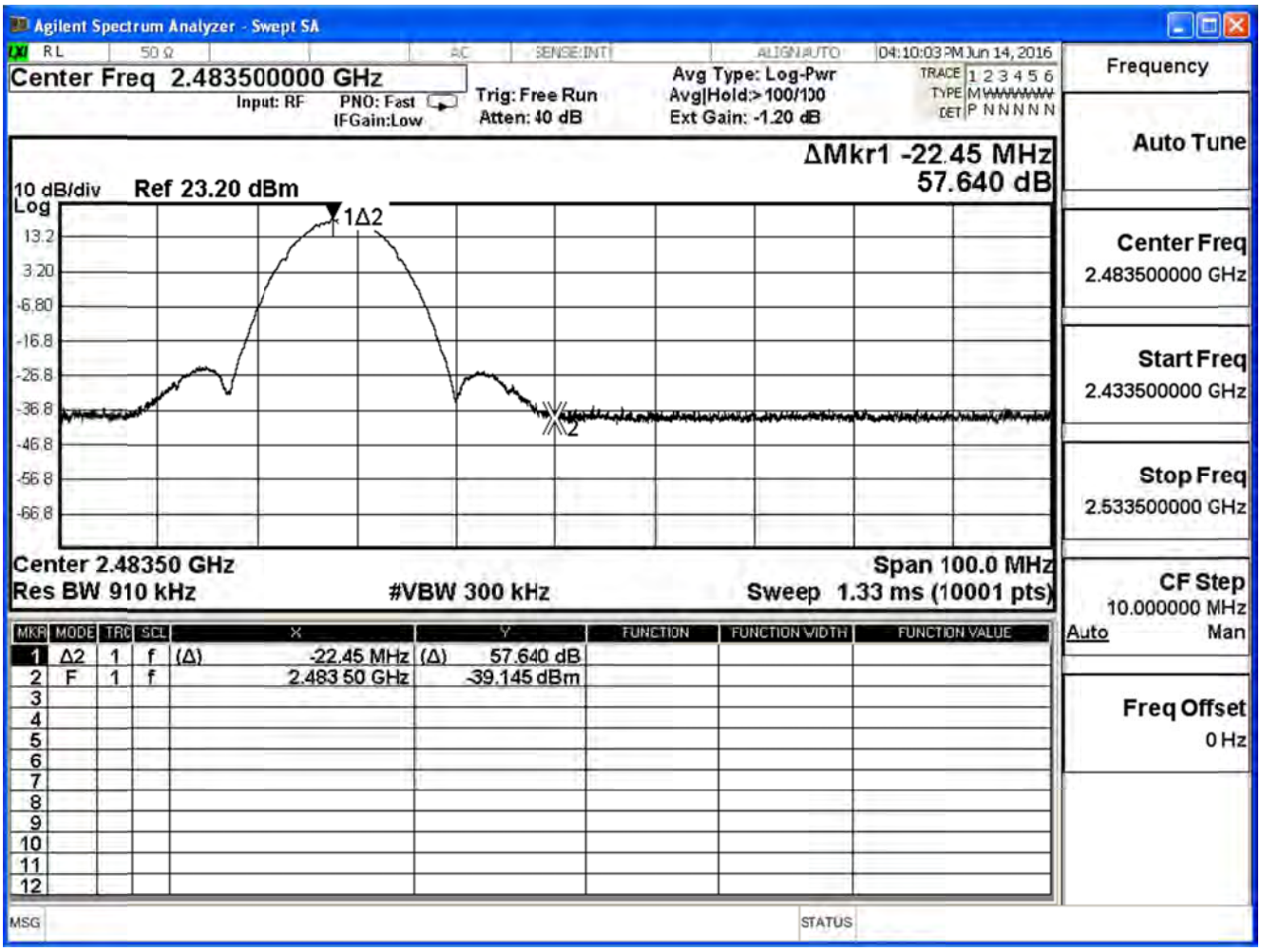
Channel 1 (2412MHz)



Channel 6 (2437MHz)



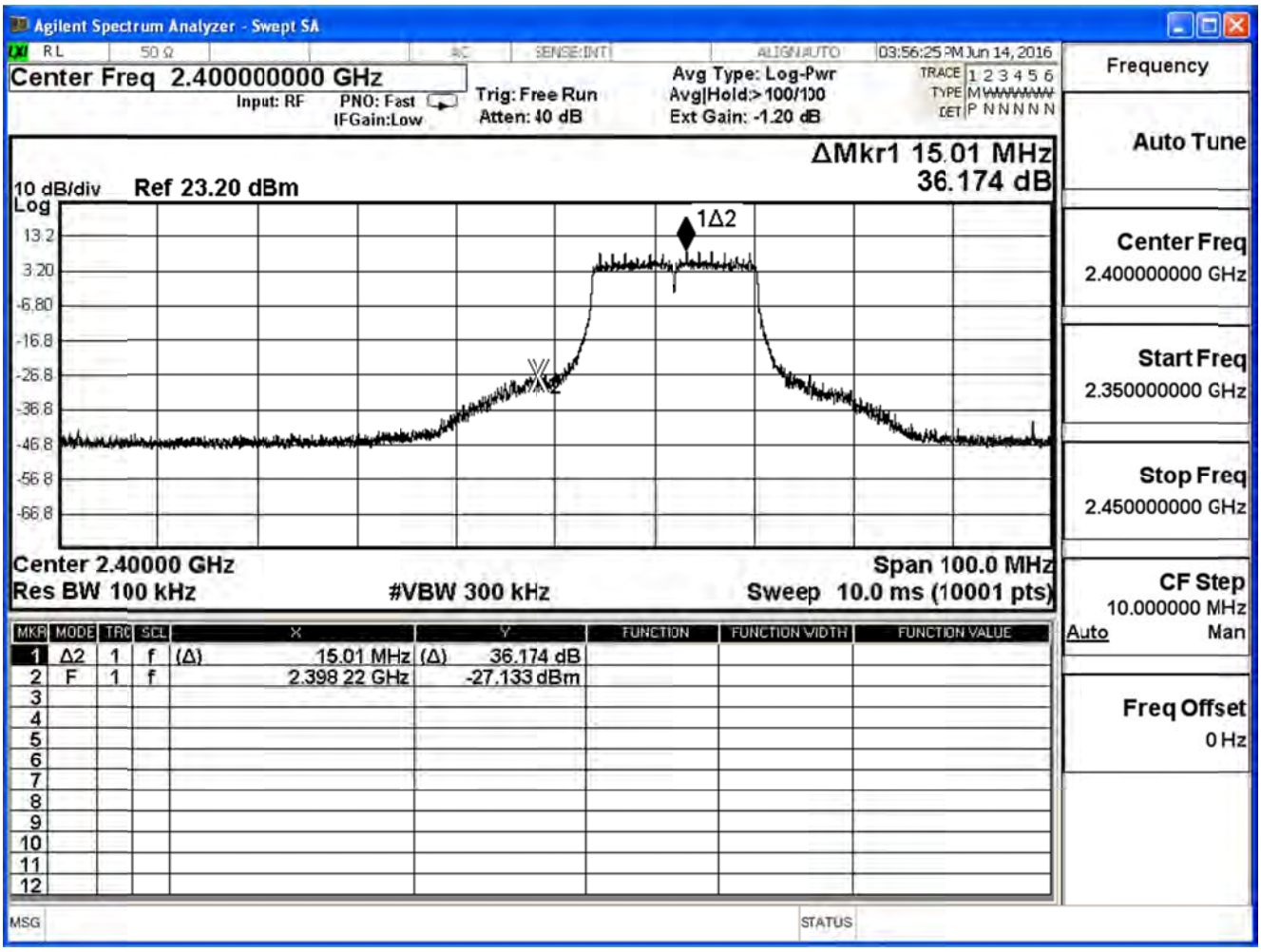
Channel 11 (2462MHz)



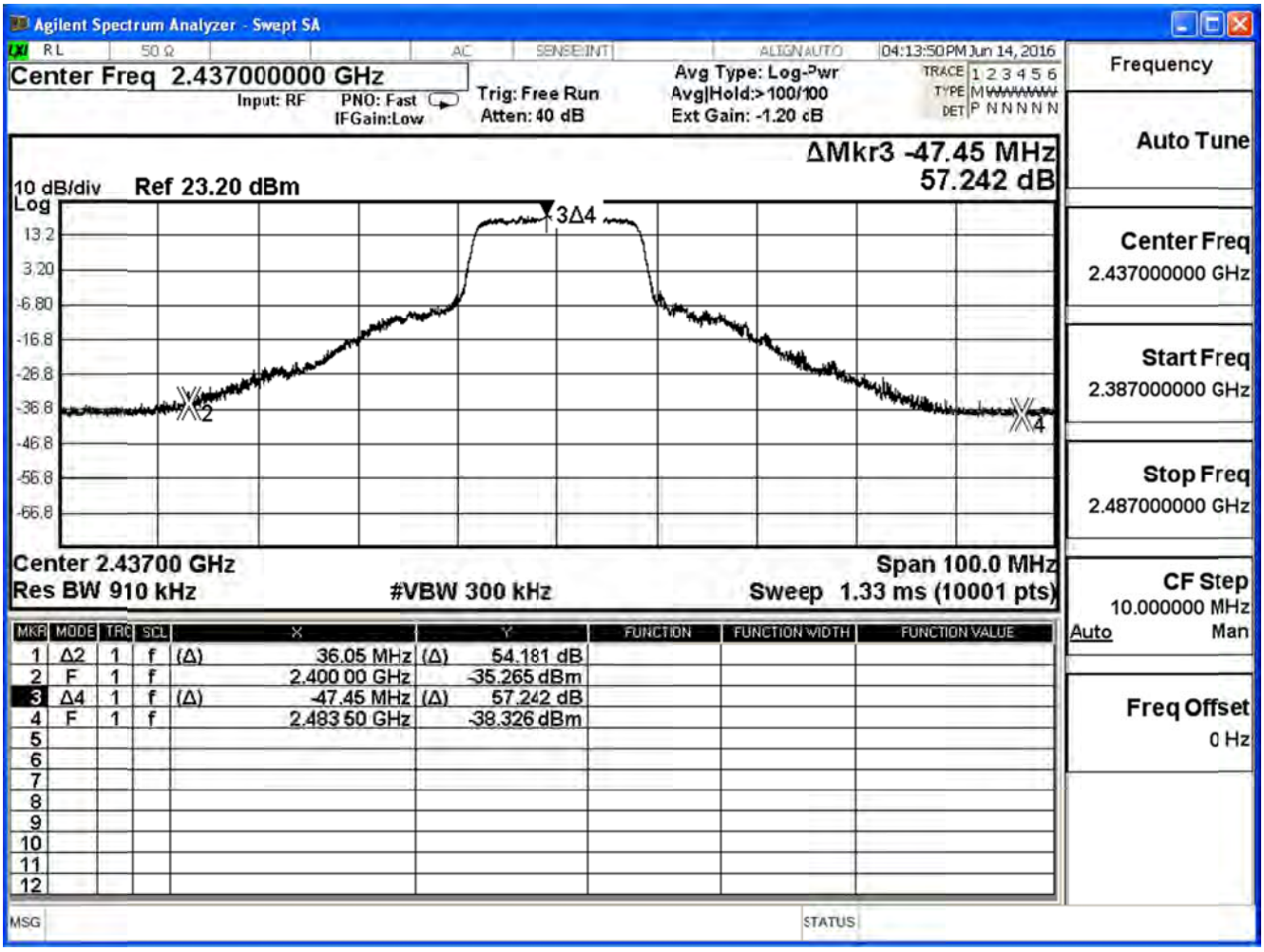
Product	Wireless-AC1700 Dual Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: TX_CDD Mode (11b/g)_ ADP1		
Date of Test	2016/06/14	Test Site	SR7

IEEE 802.11g, Ant0				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	36.174	≧30	Pass
6	2437	54.181	≧30	Pass
11	2462	47.859	≧30	Pass

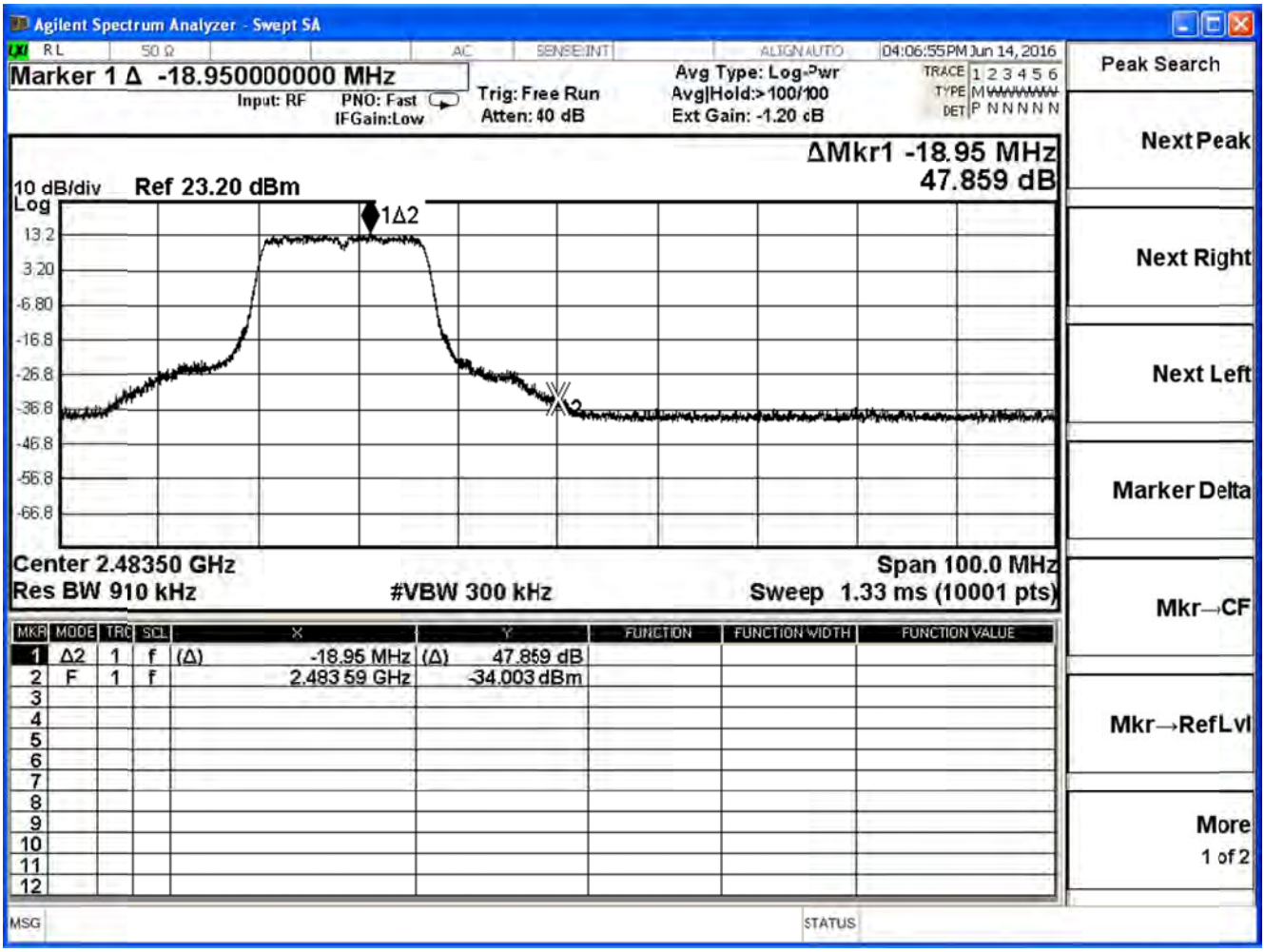
Channel 1 (2412MHz)



Channel 6 (2437MHz)



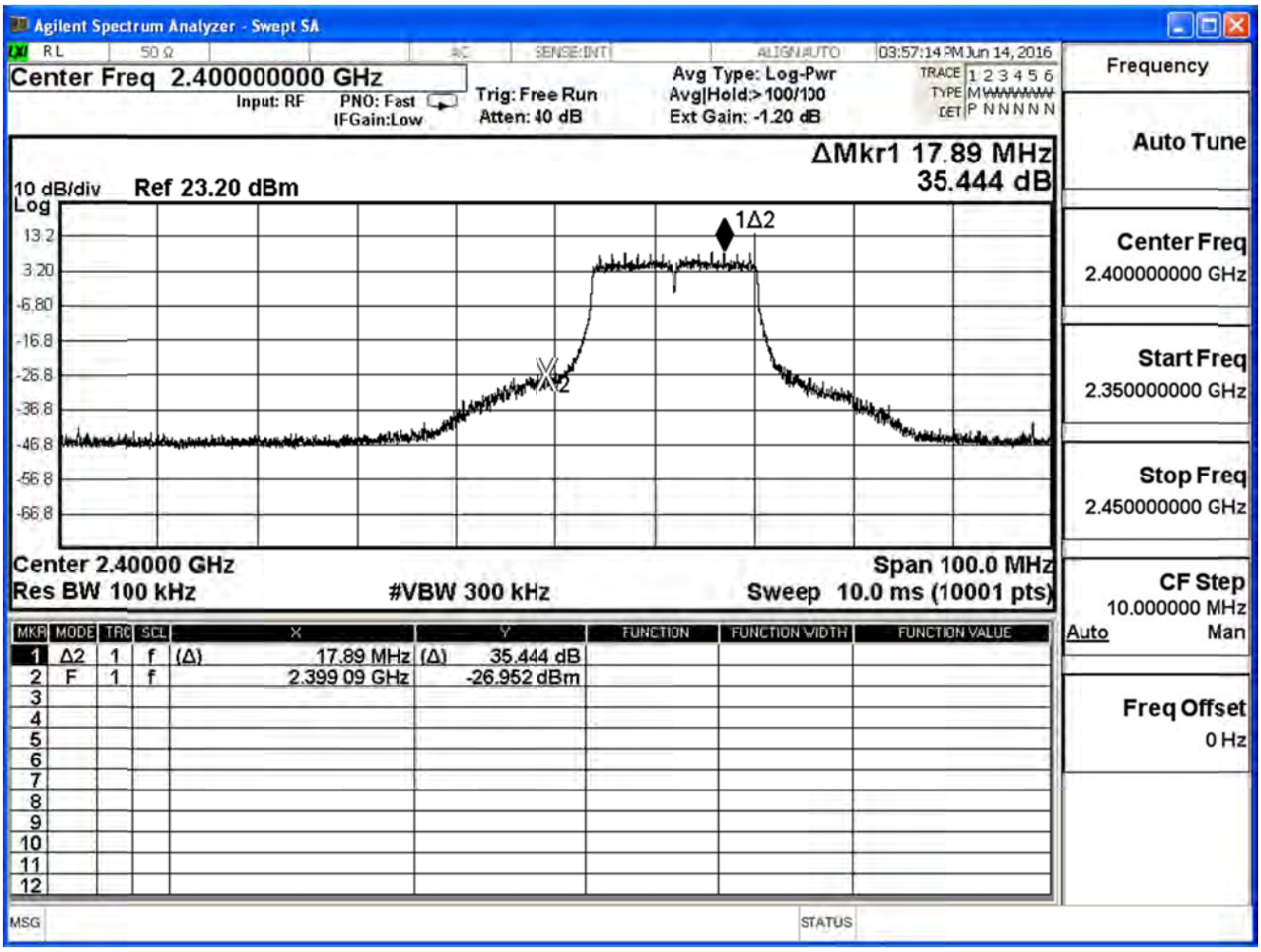
Channel 11 (2462MHz)



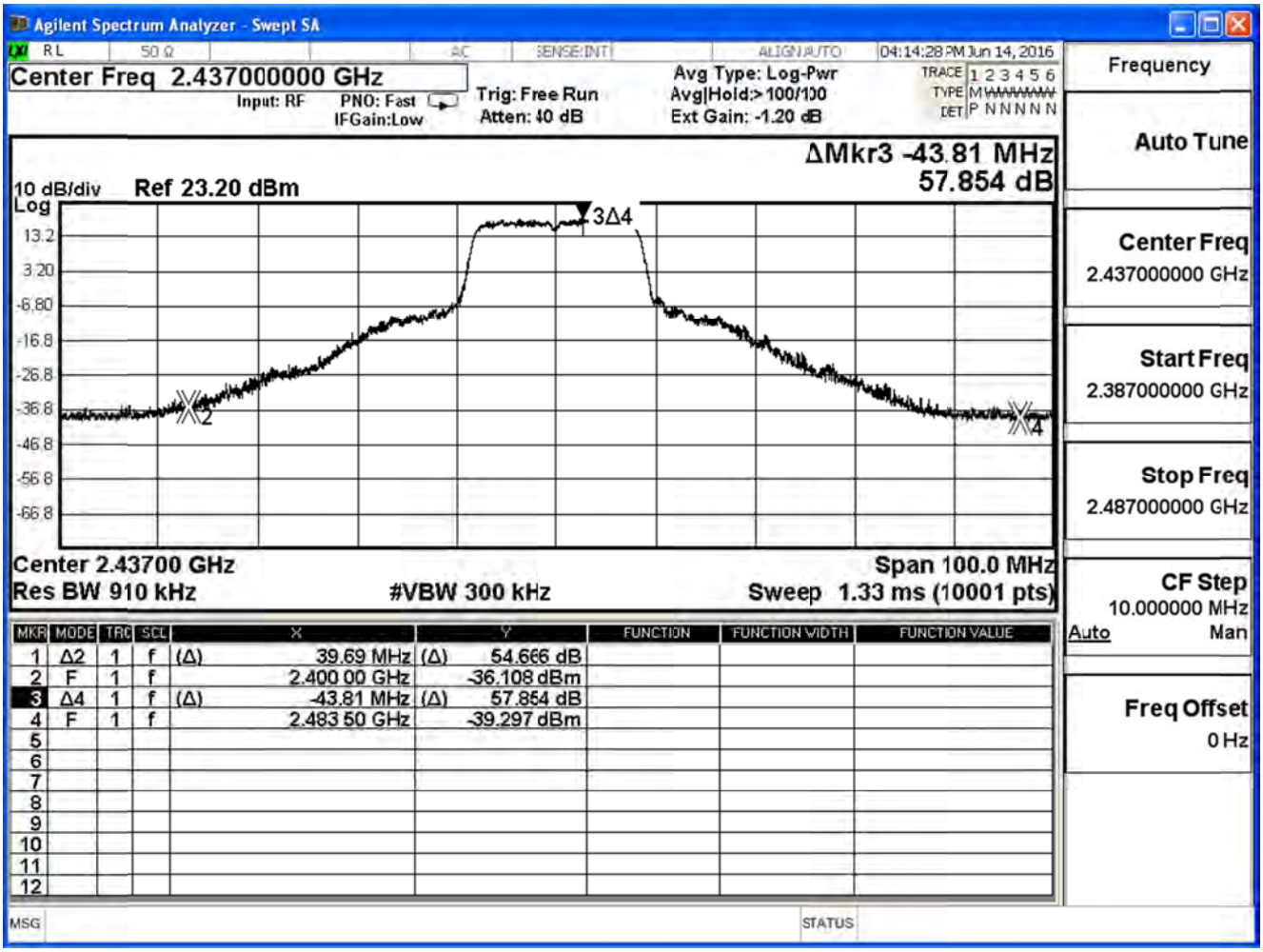
Product	Wireless-AC1700 Dual Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: TX_CDD Mode (11b/g)_ ADP1		
Date of Test	2016/06/14	Test Site	SR7

IEEE 802.11g, Ant1				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	35.444	≧30	Pass
6	2437	54.666	≧30	Pass
11	2462	51.279	≧30	Pass

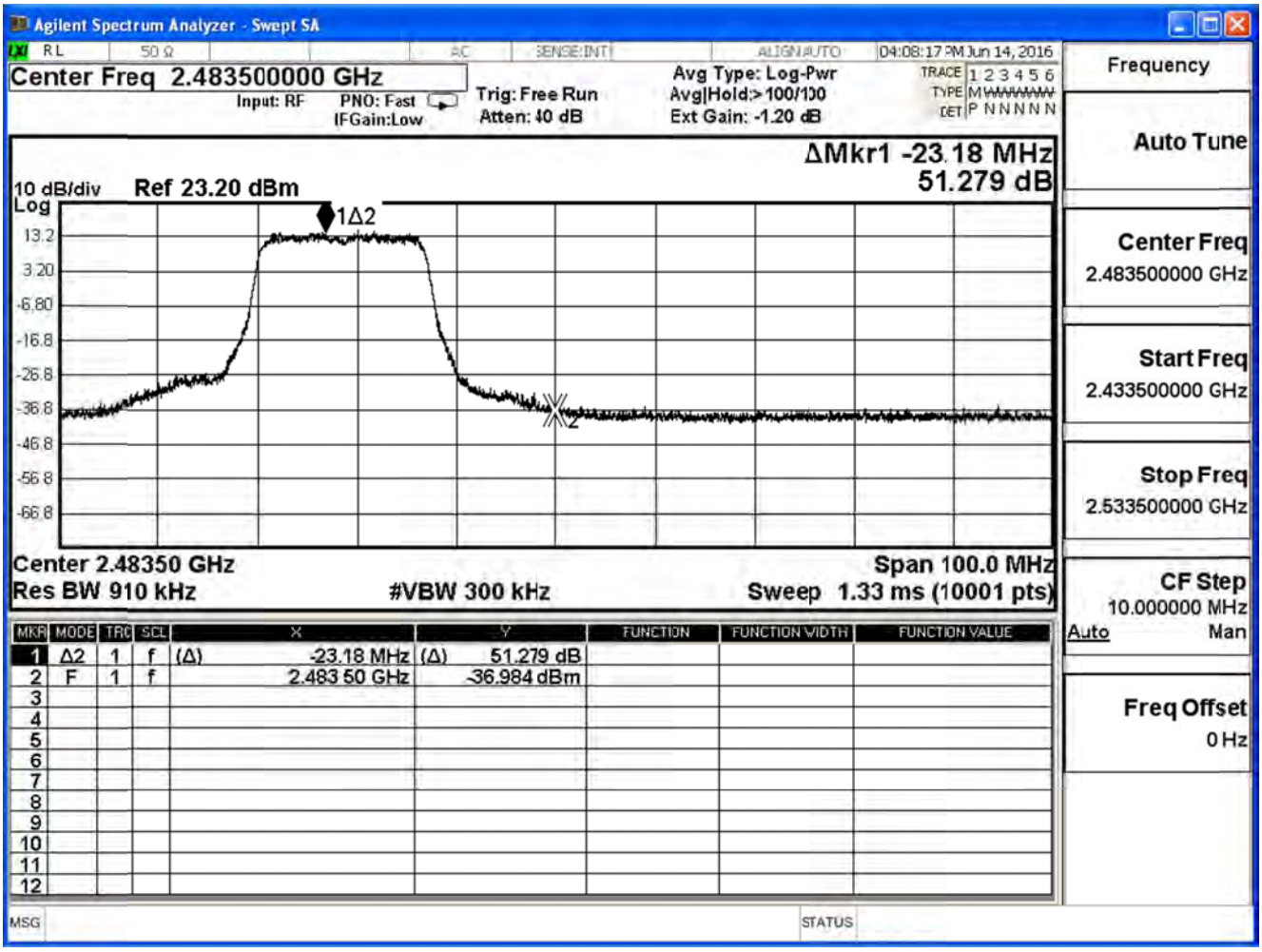
Channel 1 (2412MHz)



Channel 6 (2437MHz)



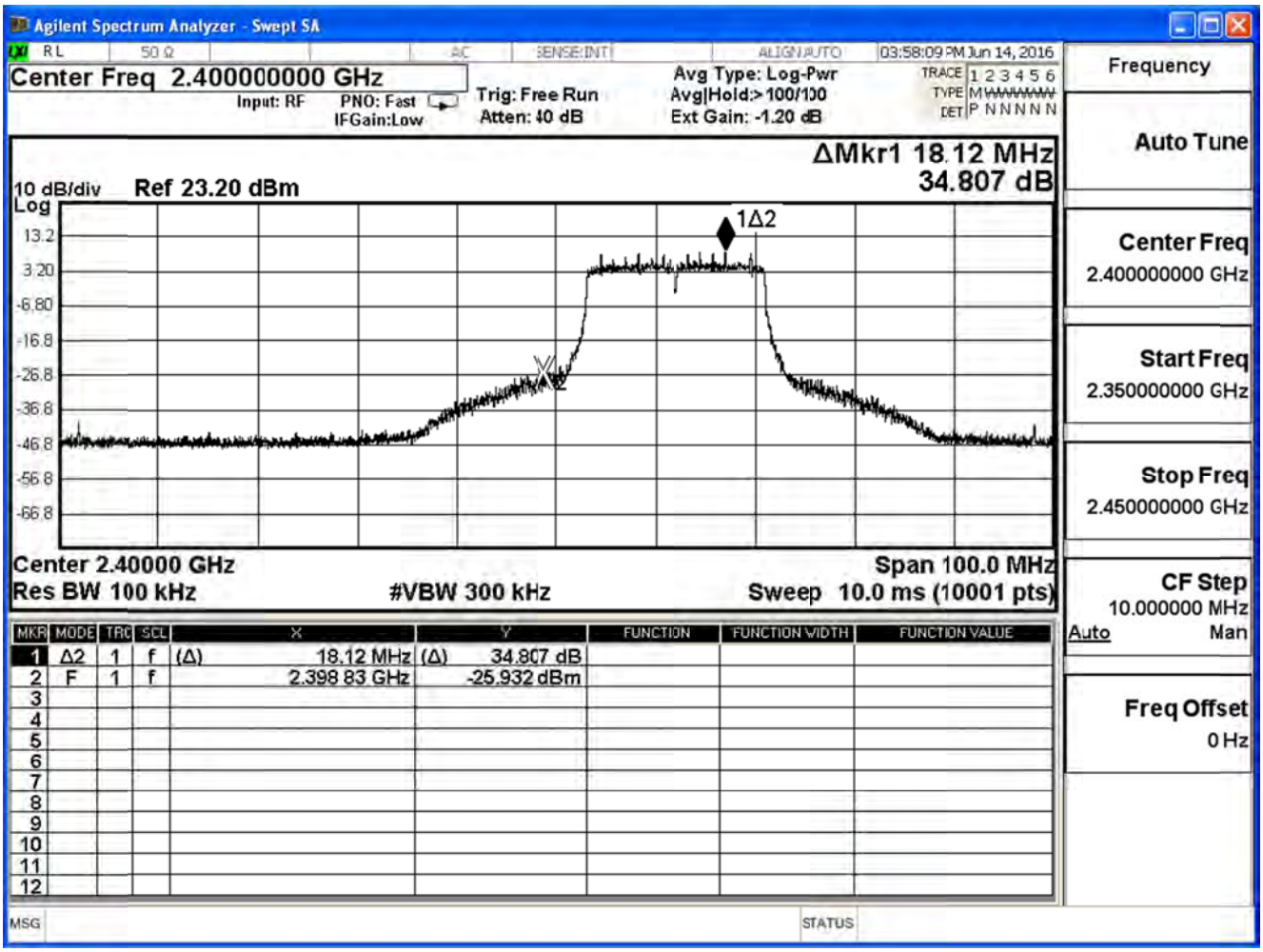
Channel 11 (2462MHz)



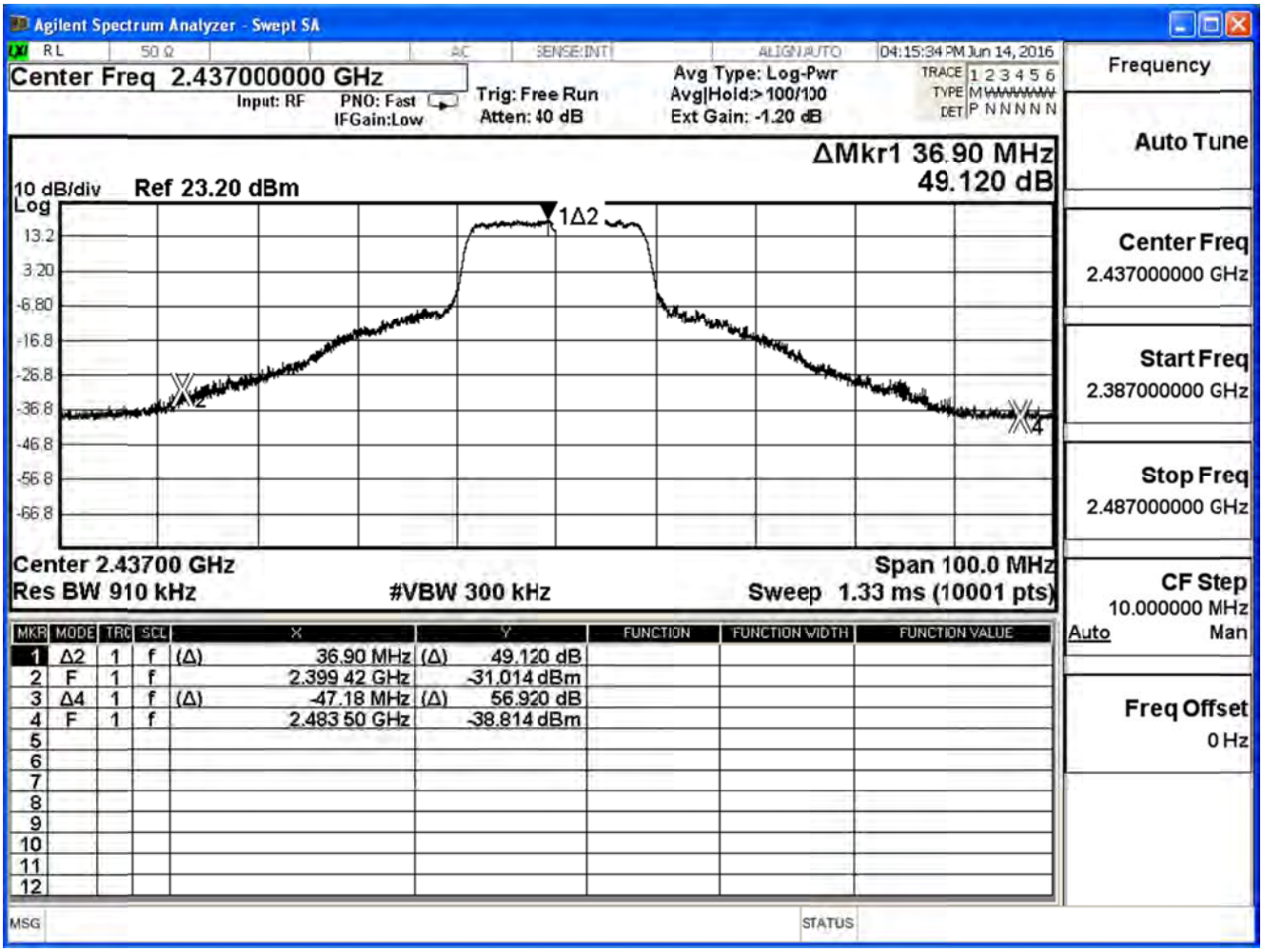
Product	Wireless-AC1700 Dual Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 2: TX_Beamforming Mode (11 n20/n40)_ ADP1		
Date of Test	2016/06/14	Test Site	SR7

IEEE 802.11n (20MHz), Ant 0				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	34.807	≧30	Pass
6	2437	49.120	≧30	Pass
11	2462	47.391	≧30	Pass

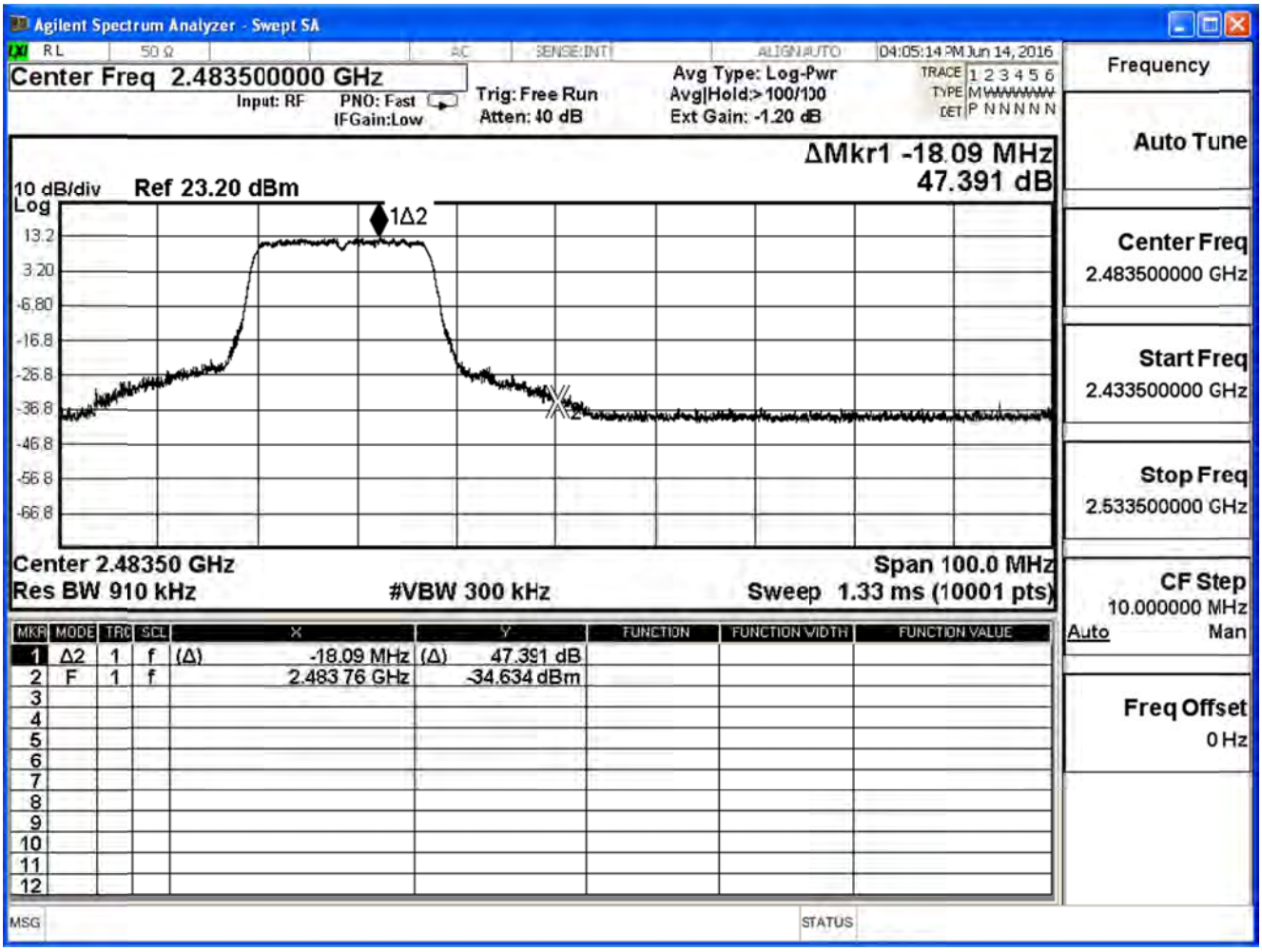
Channel 1 (2412MHz)



Channel 06 (2437MHz)



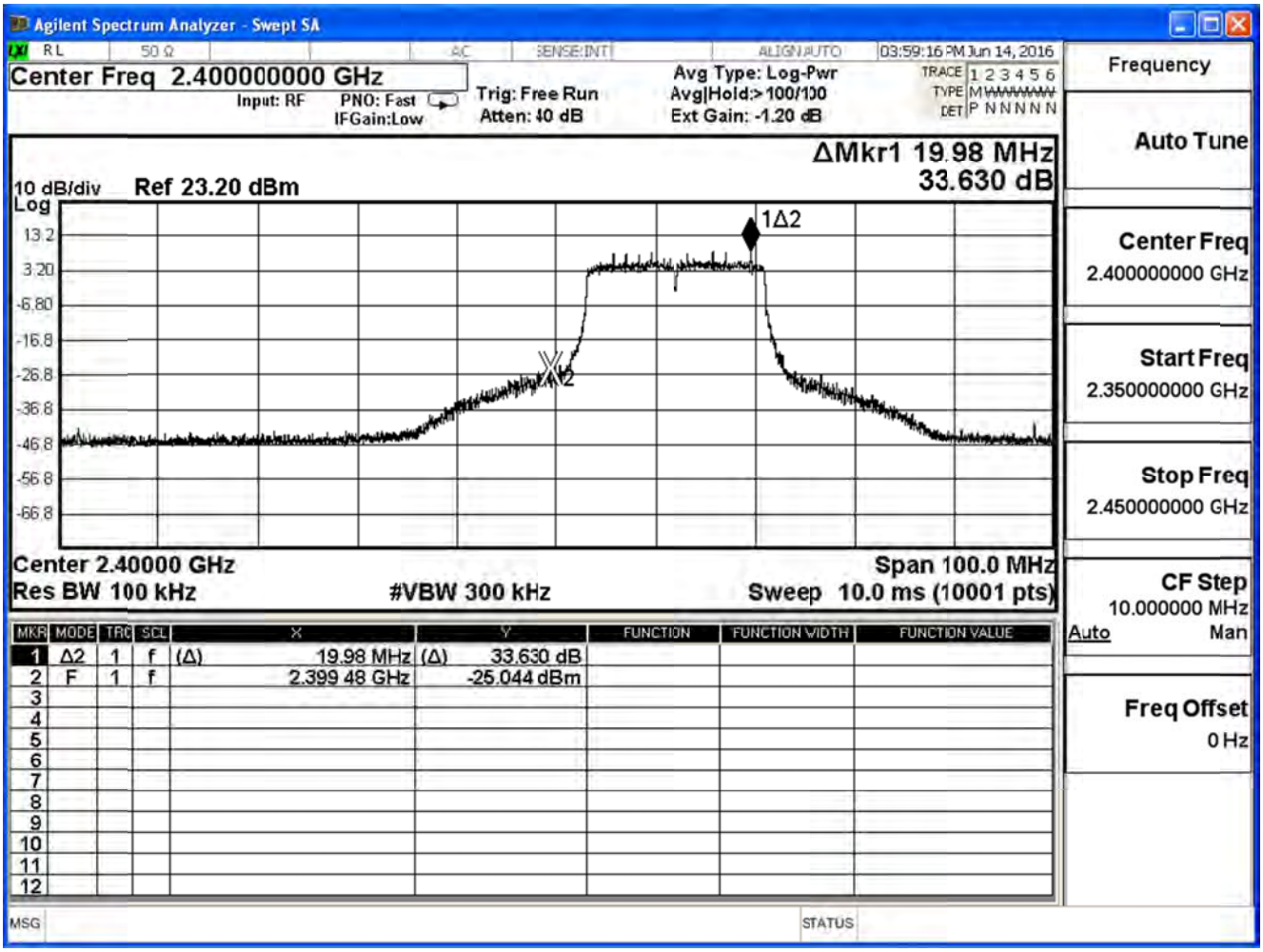
Channel 11 (2462MHz)



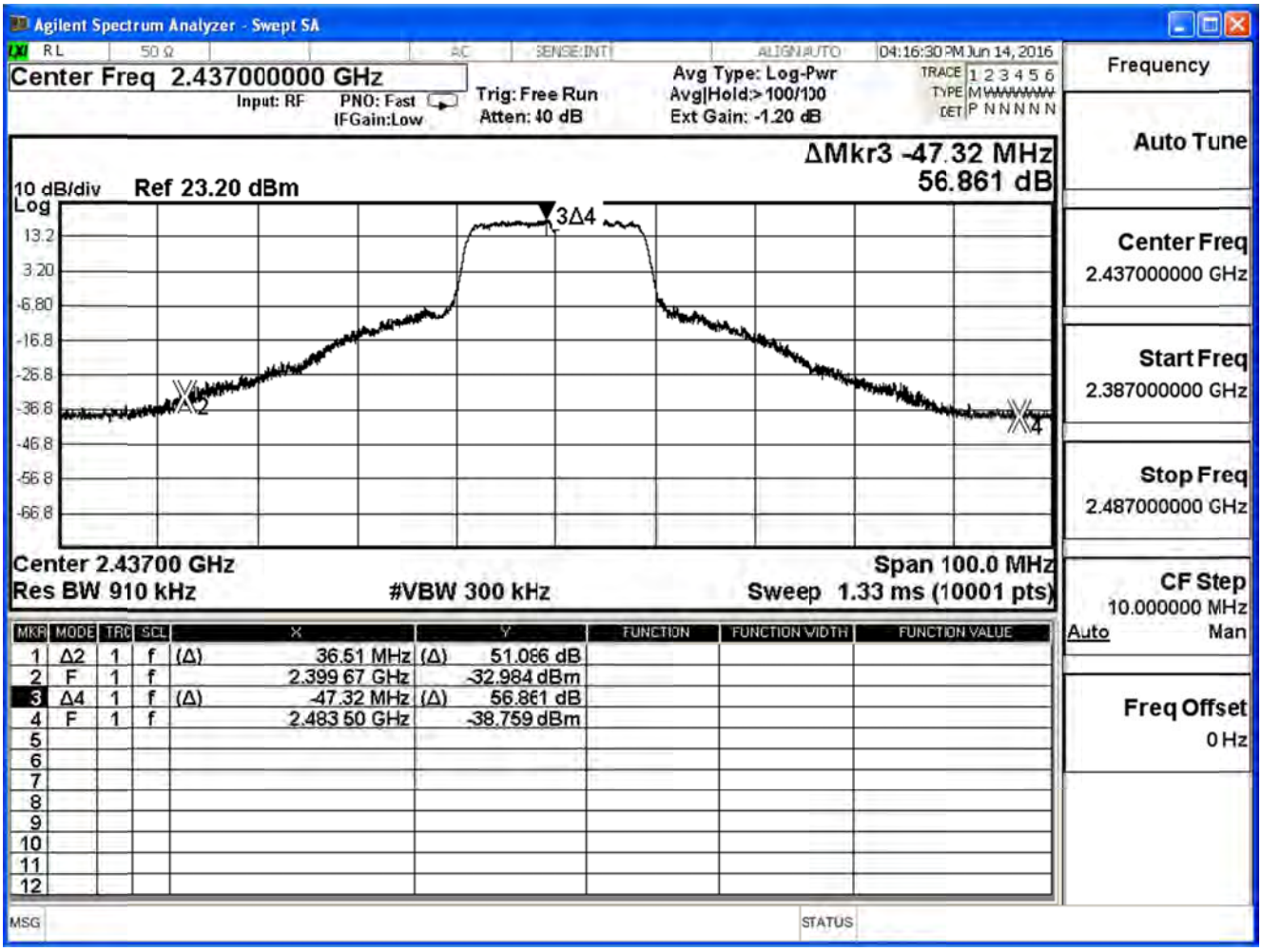
Product	Wireless-AC1700 Dual Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 2: TX_Beamforming Mode (11 n20/n40)_ ADP1		
Date of Test	2016/06/14	Test Site	SR7

IEEE 802.11n (20MHz), Ant 1				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	33.630	≧30	Pass
6	2437	51.086	≧30	Pass
11	2462	46.335	≧30	Pass

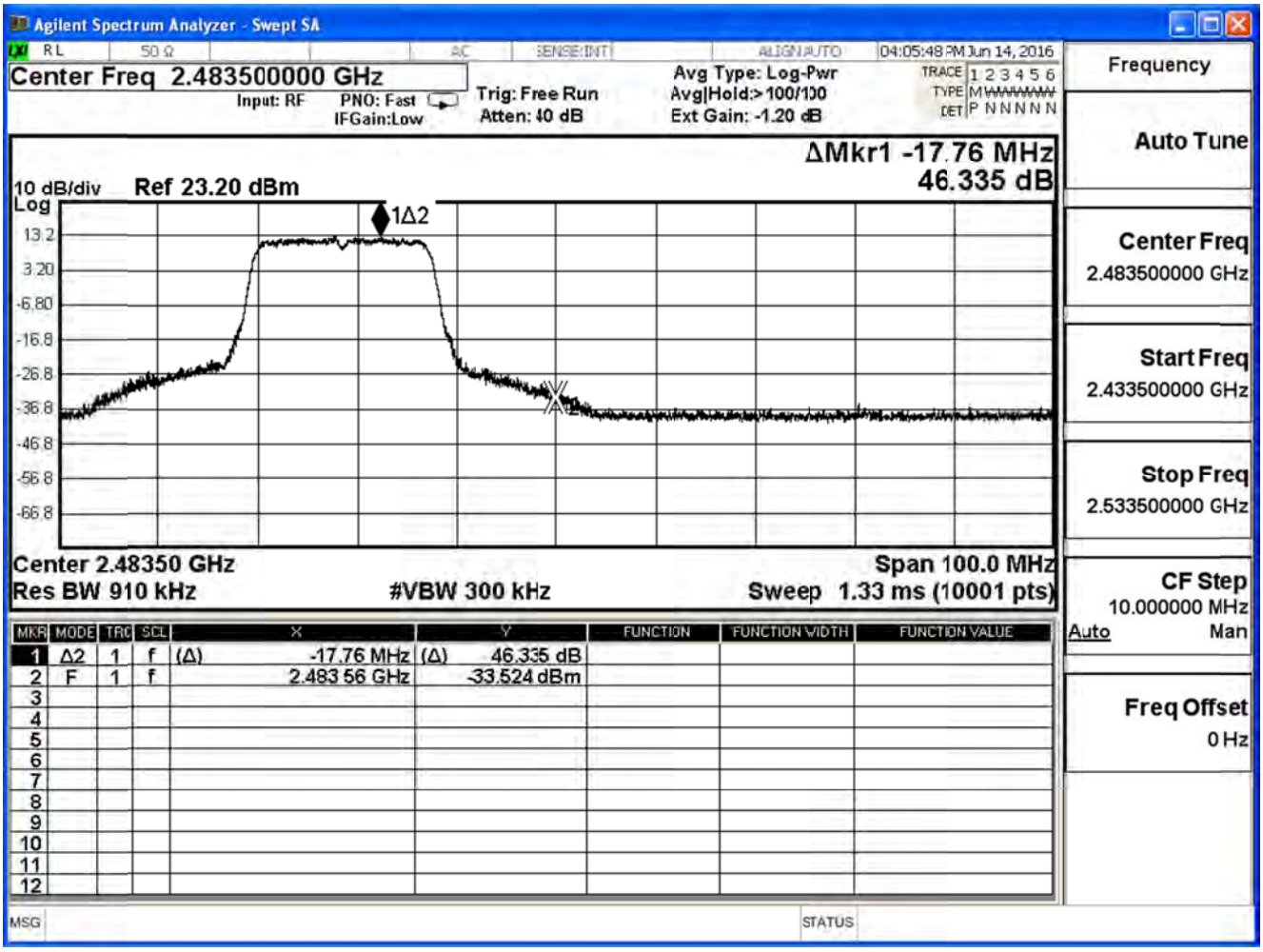
Channel 1 (2412MHz)



Channel 6 (2437MHz)



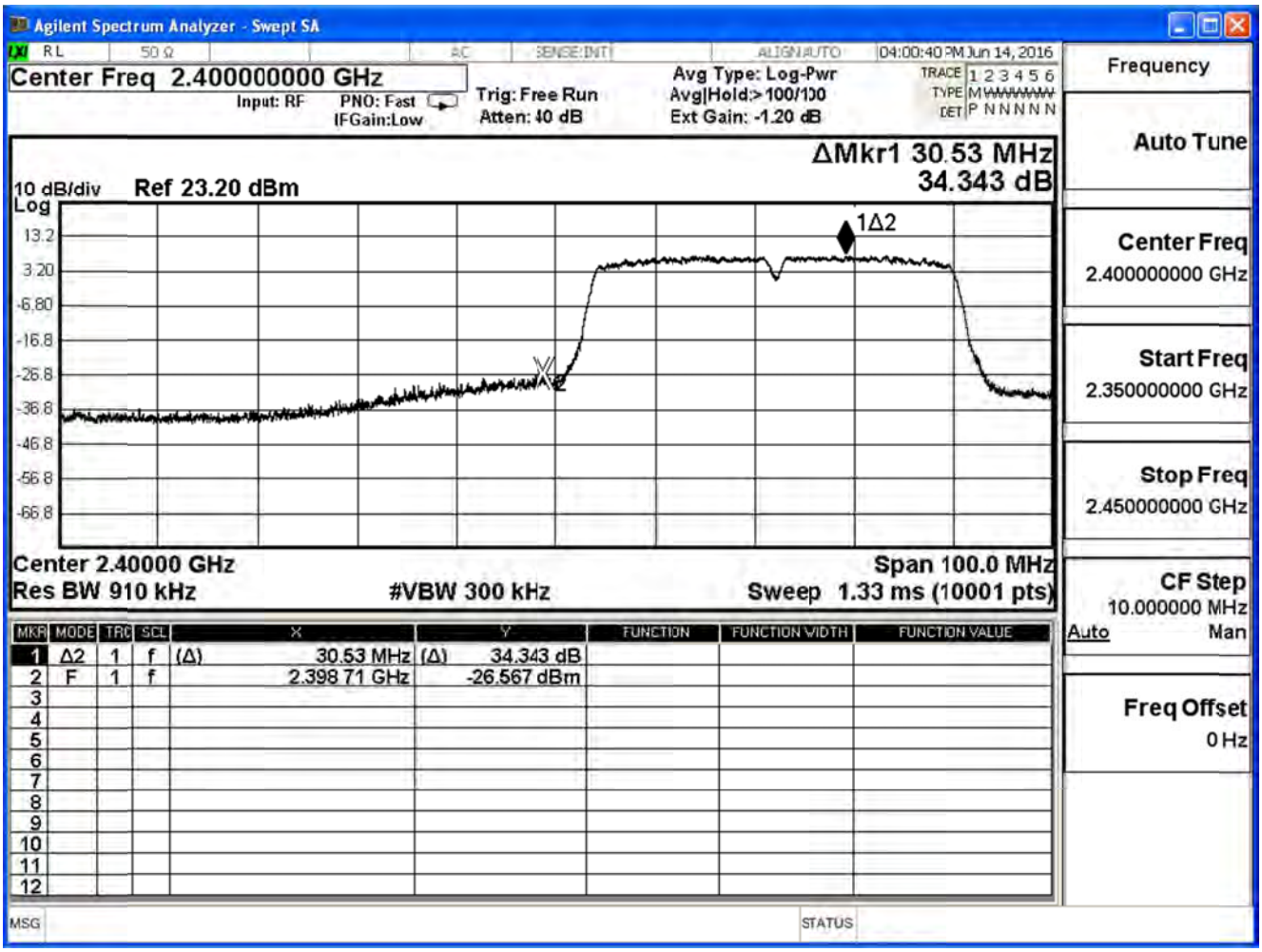
Channel 11 (2462MHz)



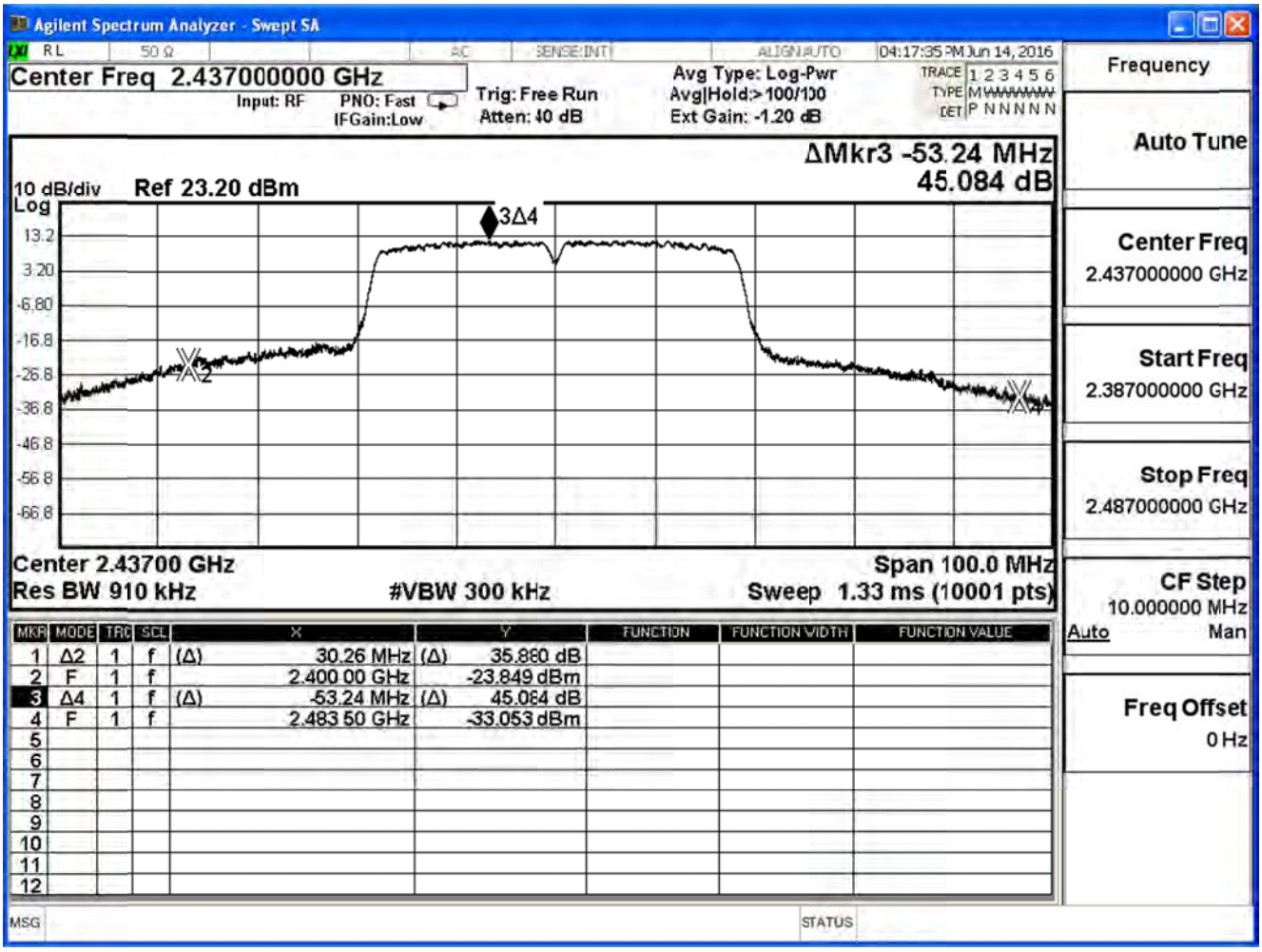
Product	Wireless-AC1700 Dual Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 2: TX_Beamforming Mode (11 n20/n40)_ ADP1		
Date of Test	2016/06/14	Test Site	SR7

IEEE 802.11n (40MHz),Ant 0				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	34.343	≧30	Pass
6	2437	35.880	≧30	Pass
9	2452	41.741	≧30	Pass

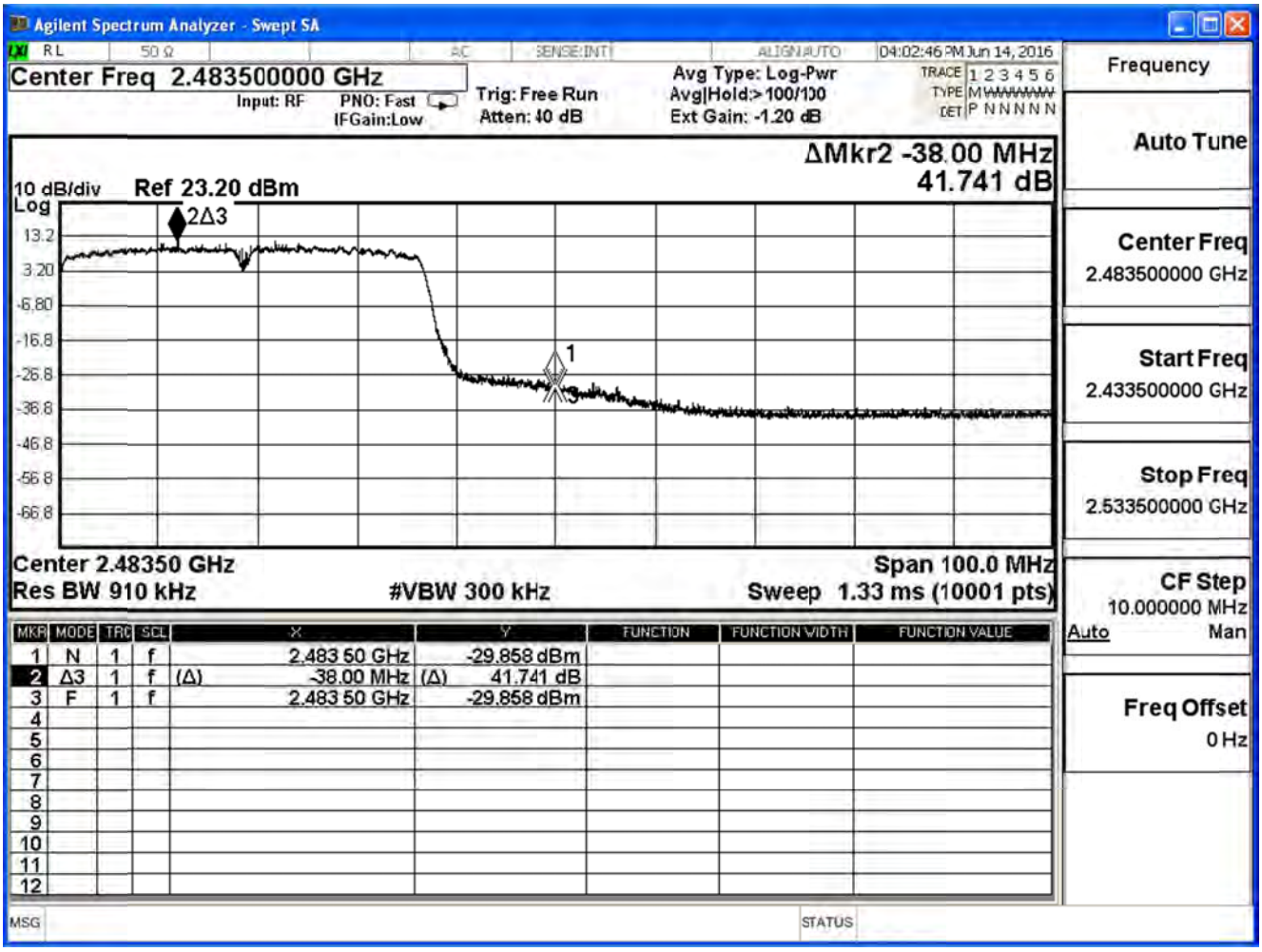
Channel 3 (2422MHz)



Channel 6 (2437MHz)



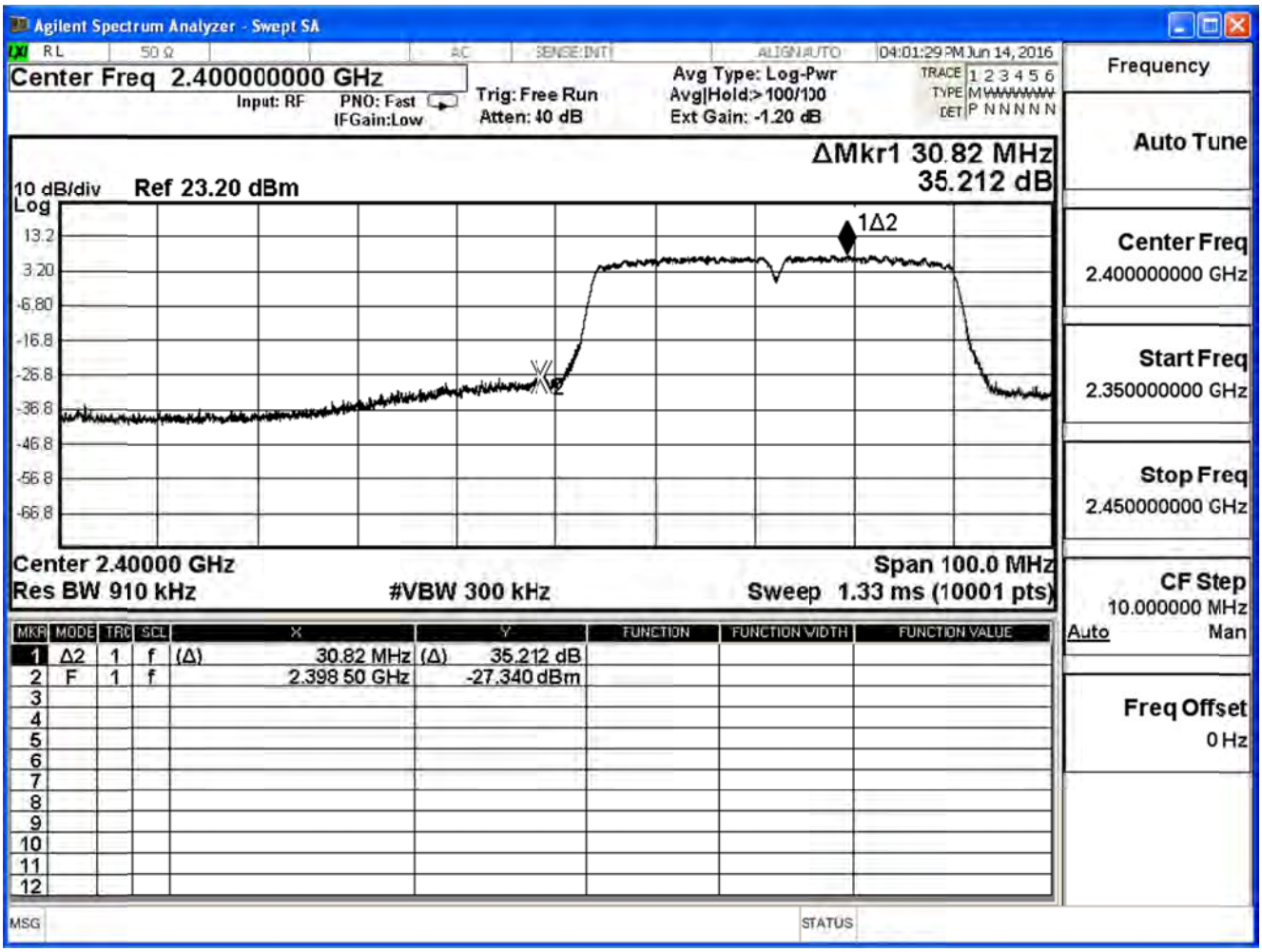
Channel 9 (2452MHz)



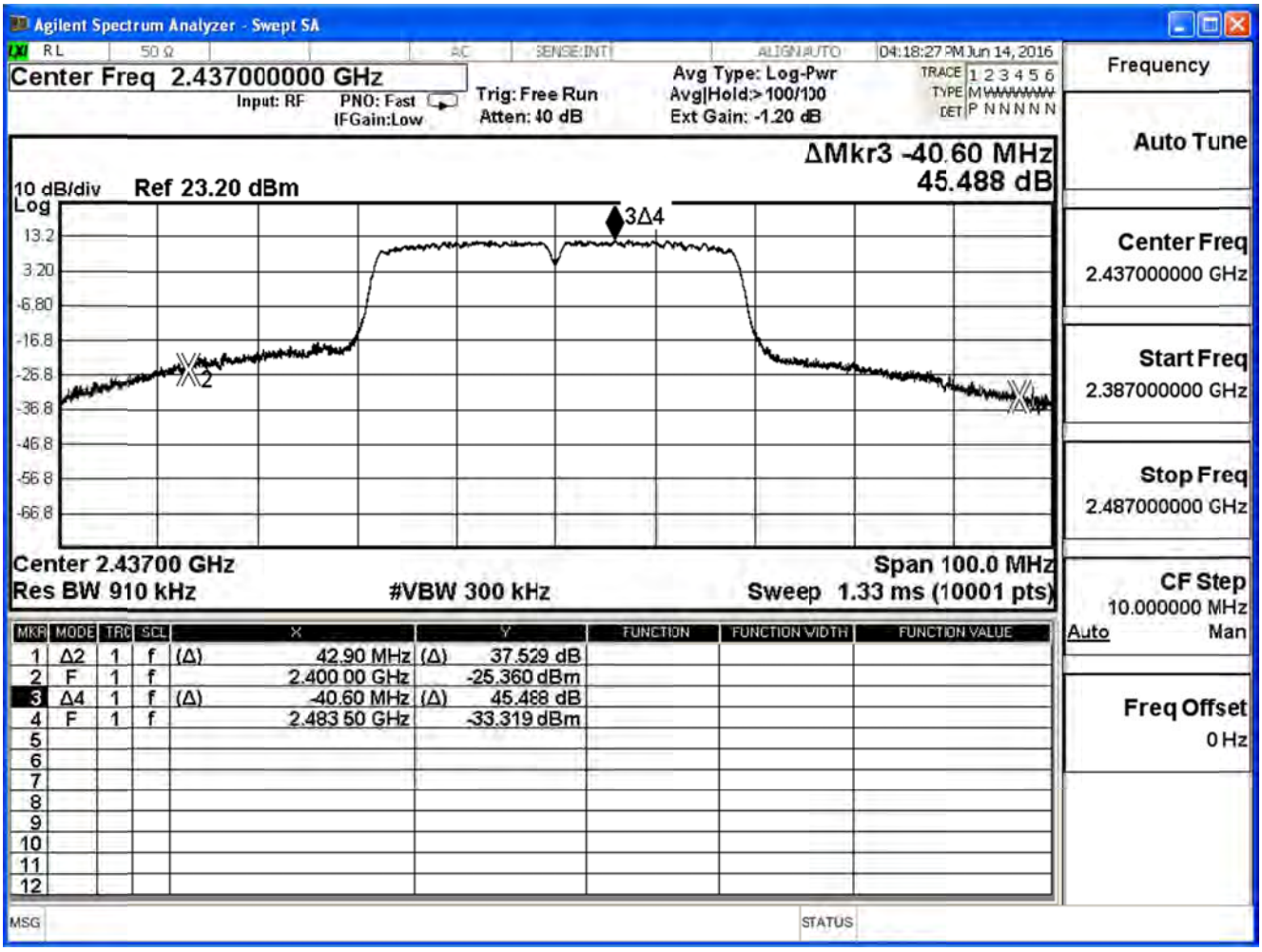
Product	Wireless-AC1700 Dual Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 2: TX_Beamforming Mode (11 n20/n40)_ ADP1		
Date of Test	2016/06/14	Test Site	SR7

IEEE 802.11n (40MHz),Ant 1				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	35.212	≧30	Pass
6	2437	37.529	≧30	Pass
9	2452	39.219	≧30	Pass

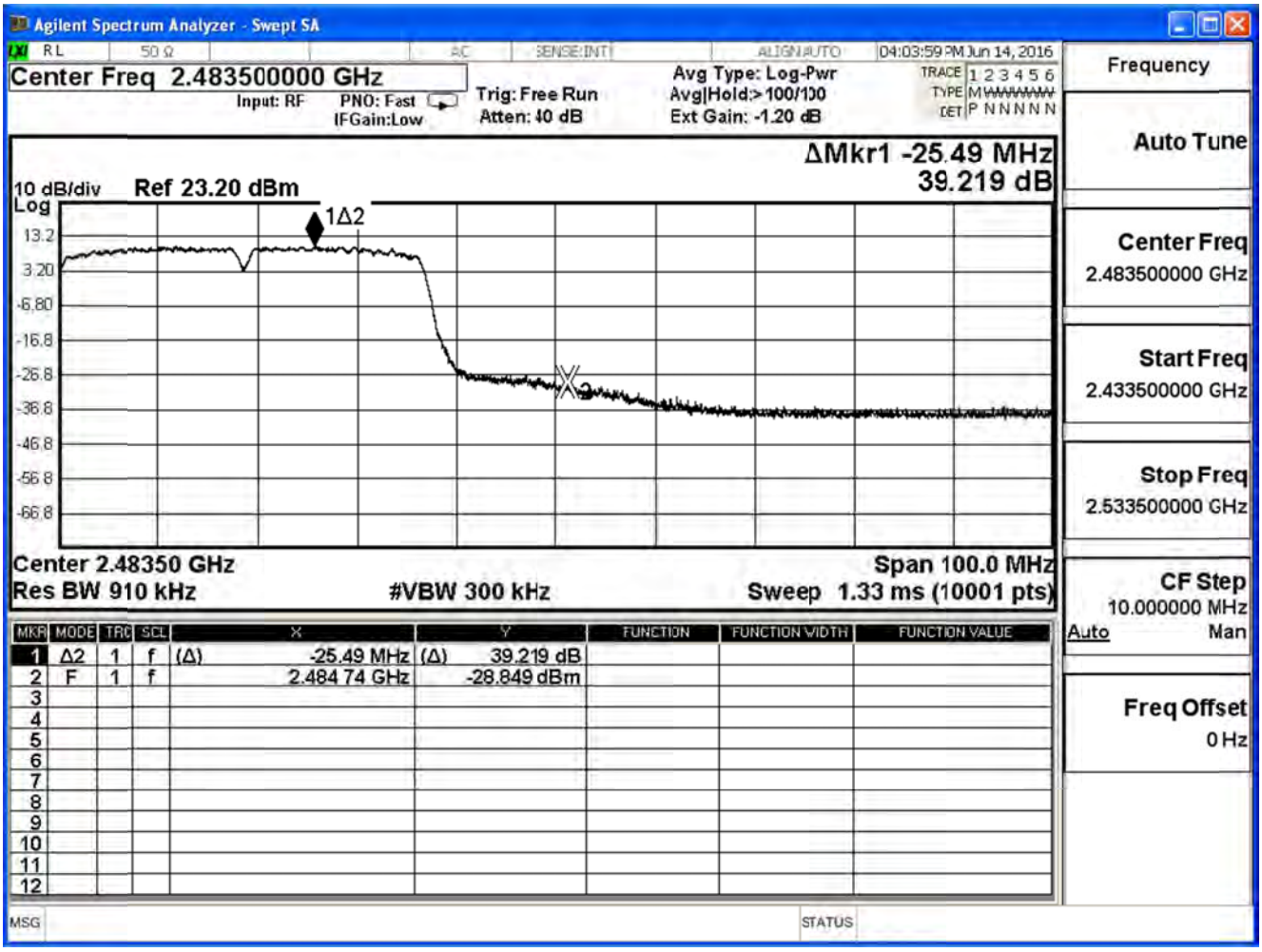
Channel 3 (2422MHz)



Channel 6 (2437MHz)

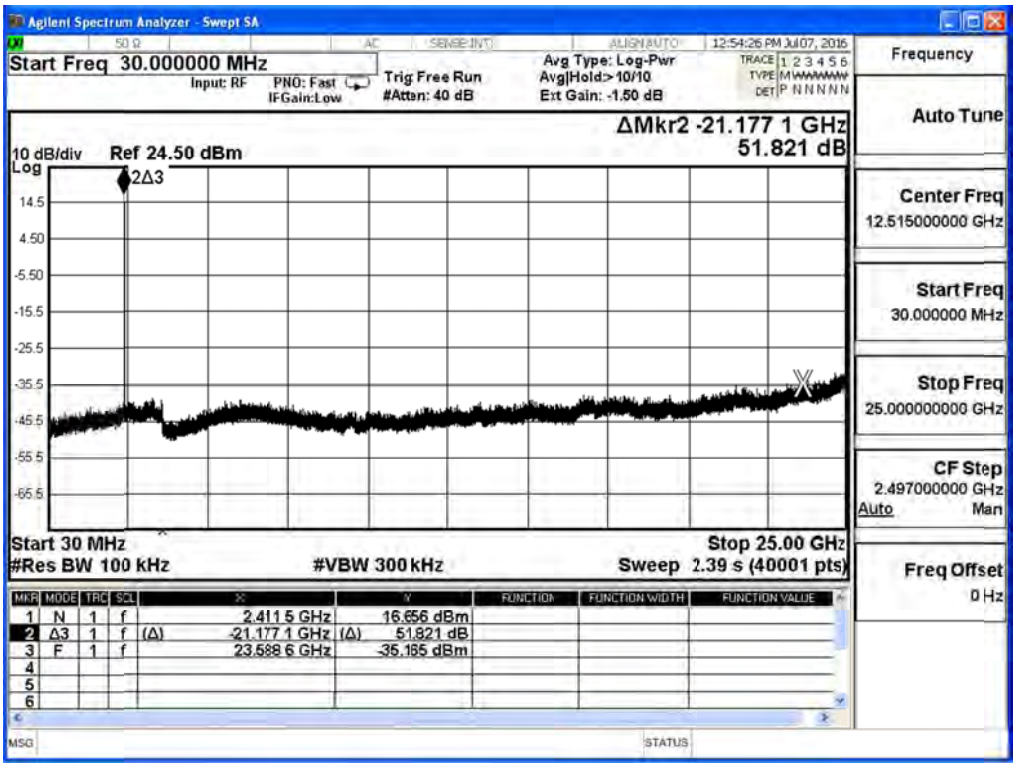


Channel 9 (2452MHz)

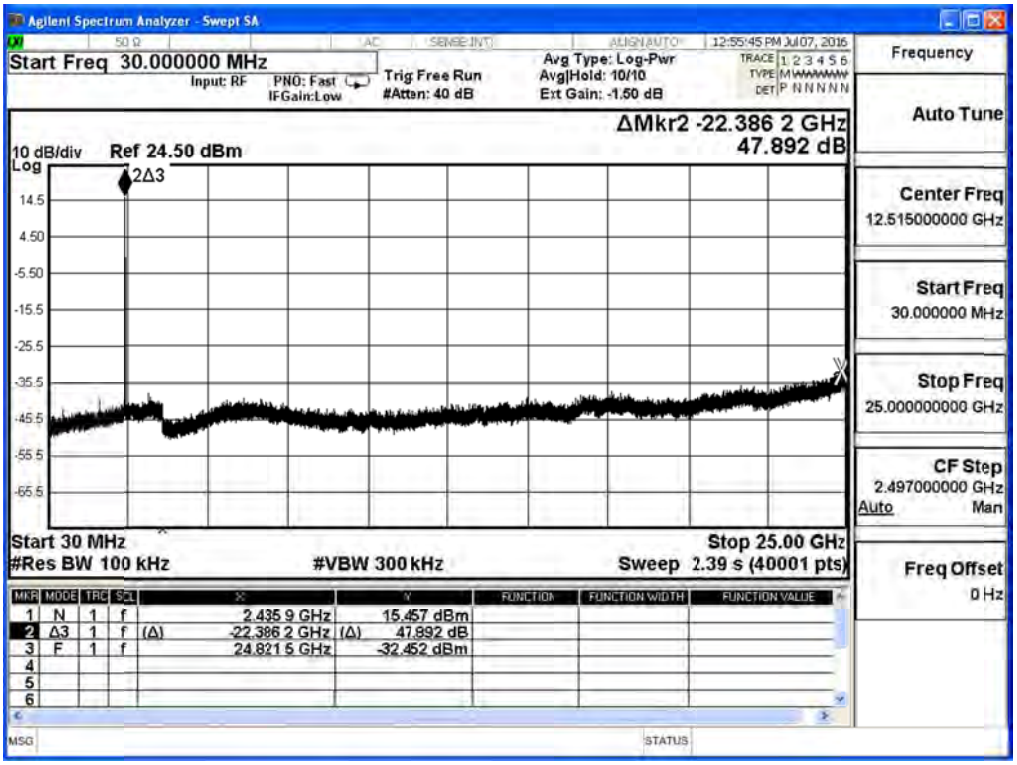


Product	Wireless-AC1700 Dual Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: TX_CDD Mode (11b/g)_ ADP1		
Date of Test	2016/06/14	Test Site	SR7

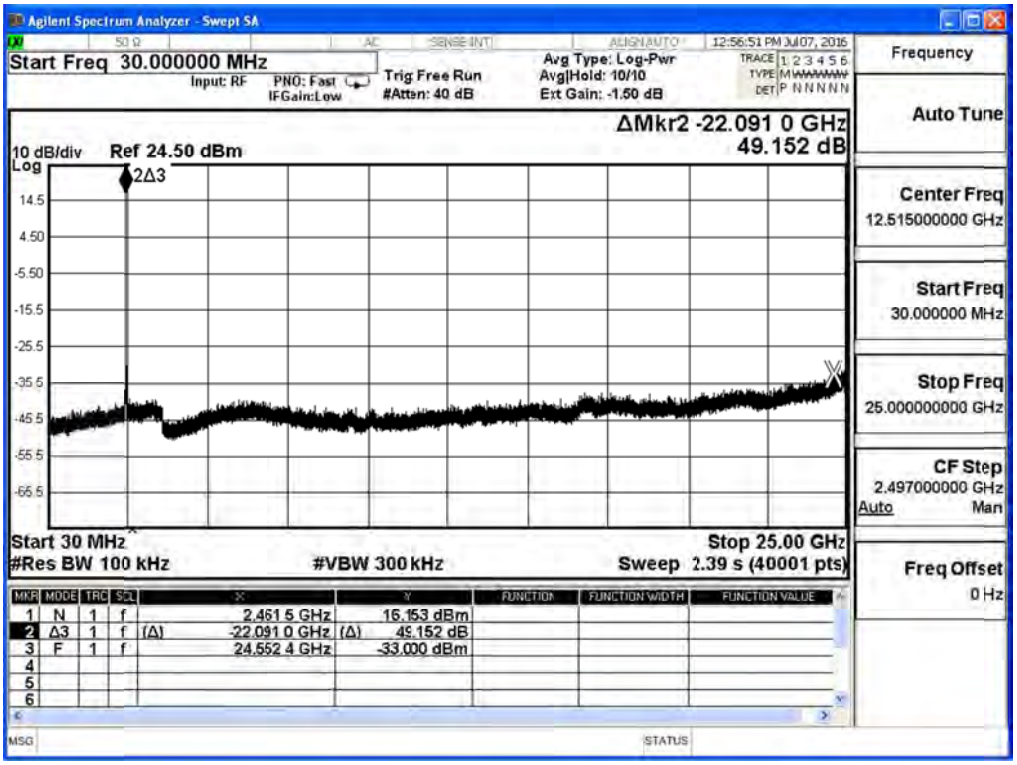
2412MHz (30MHz-25GHz)-802.11b-ANT 0



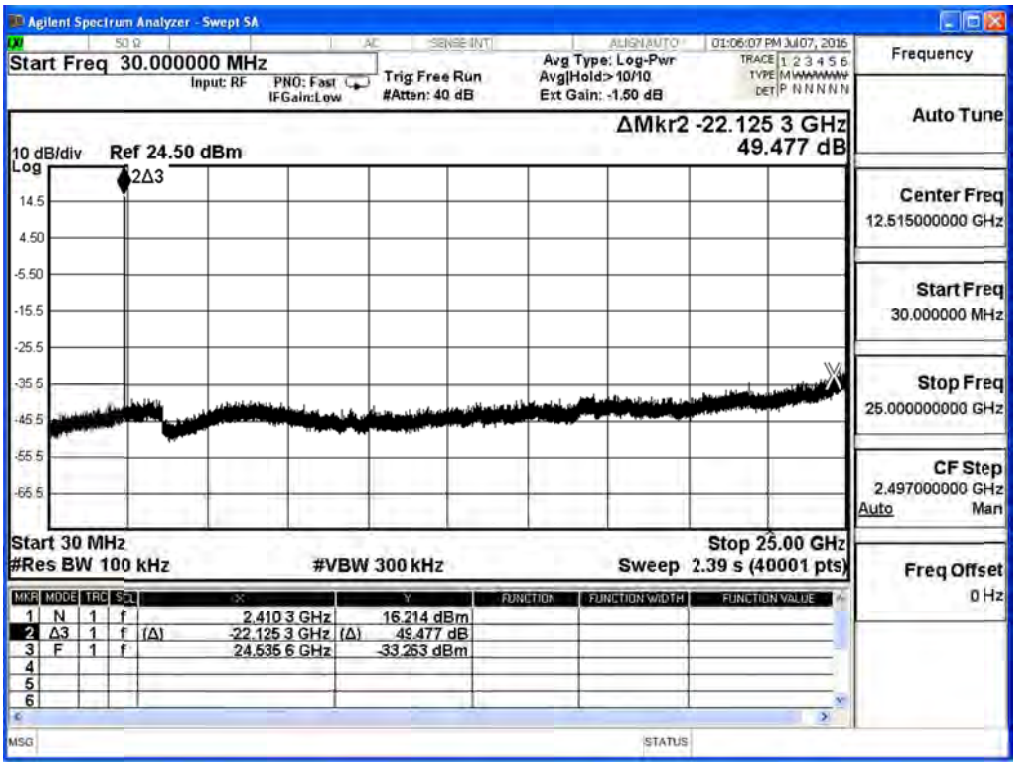
2437MHz (30MHz-25GHz)-802.11b-ANT 0



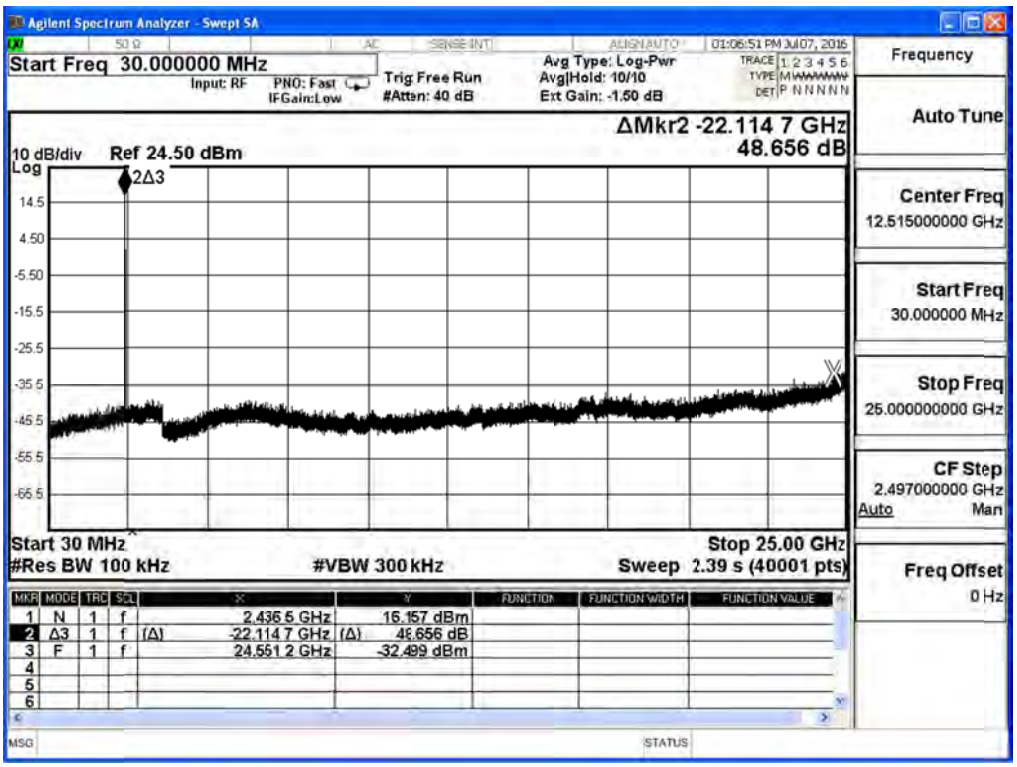
2462MHz (30MHz-25GHz) -802.11b-ANT 0



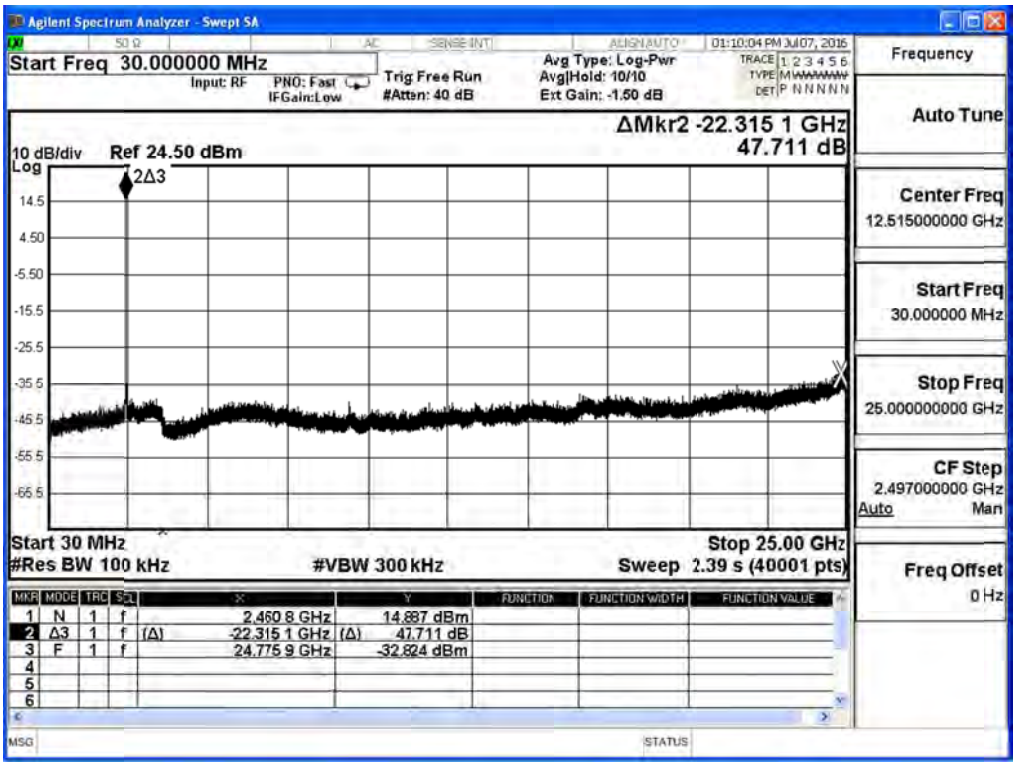
2412MHz (30MHz-25GHz)-802.11b-ANT 1



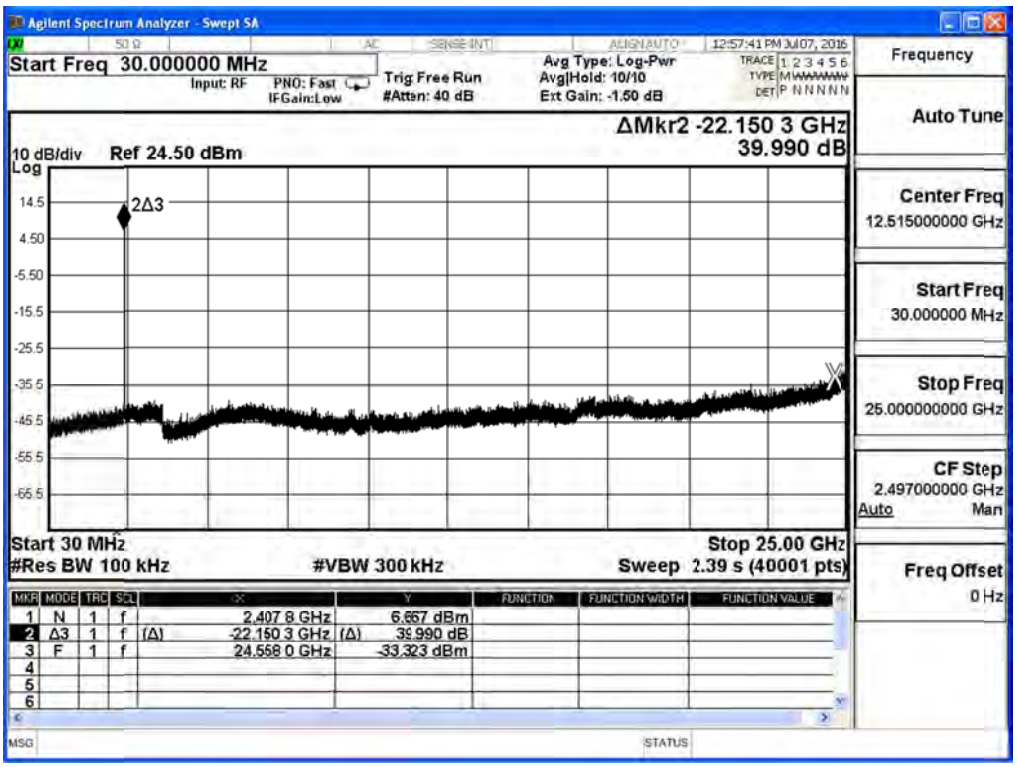
2437MHz (30MHz-25GHz)-802.11b-ANT 1



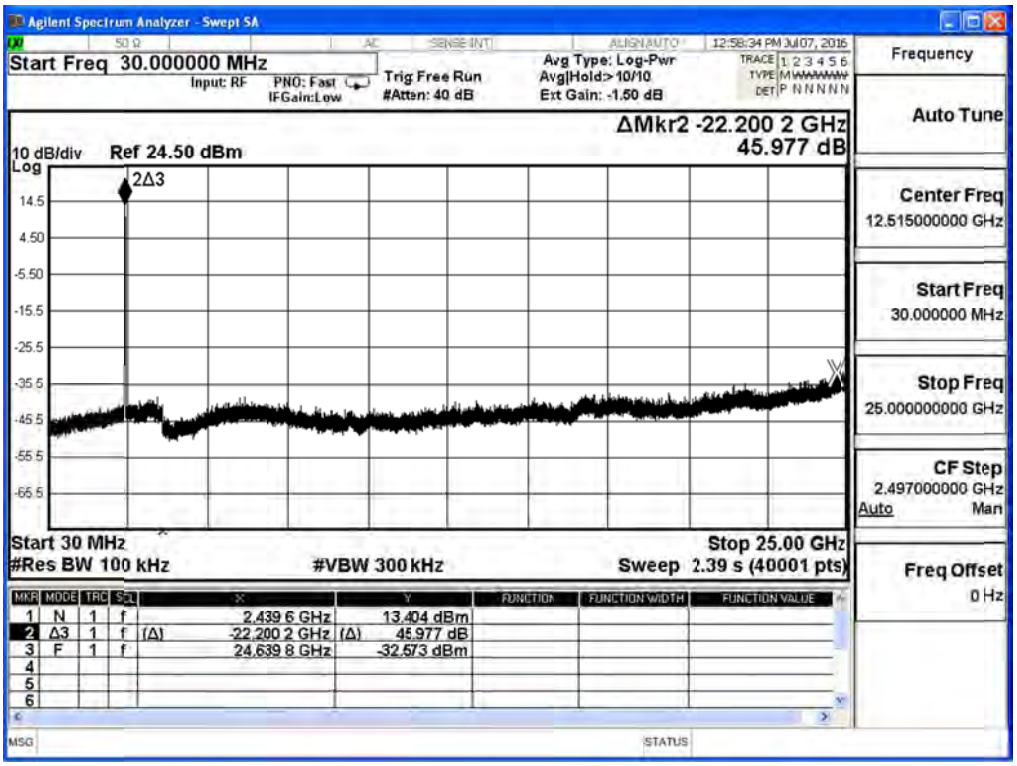
2462MHz (30MHz-25GHz) -802.11b-ANT 1



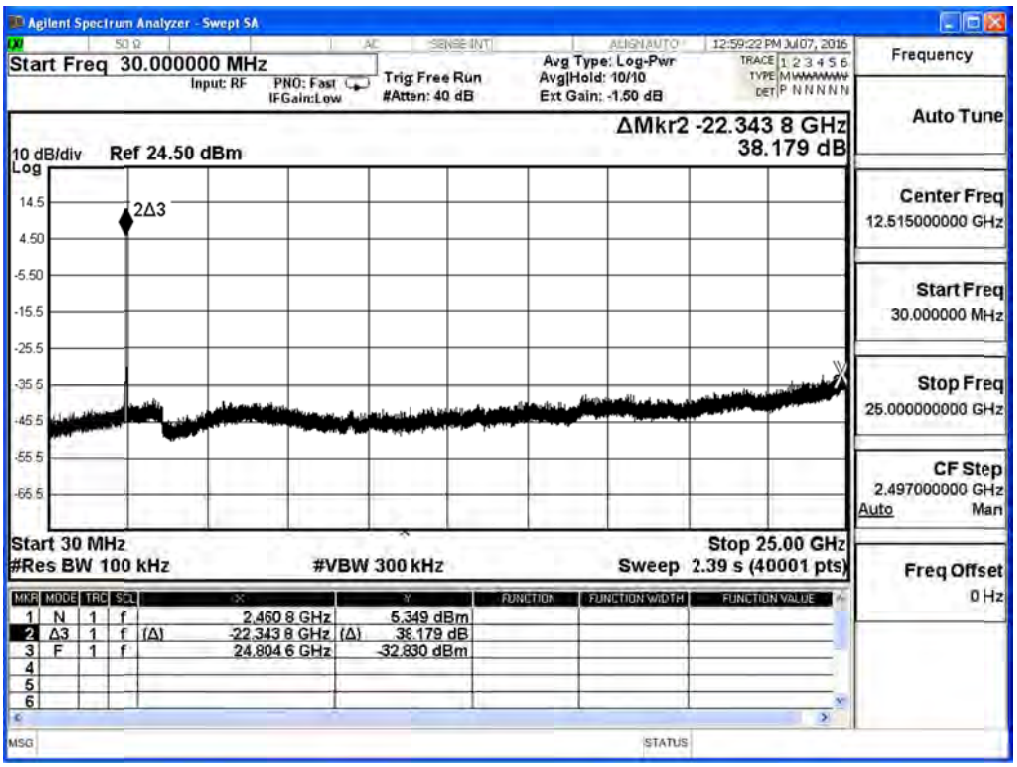
2412MHz (30MHz-25GHz)-802.11g-ANT 0



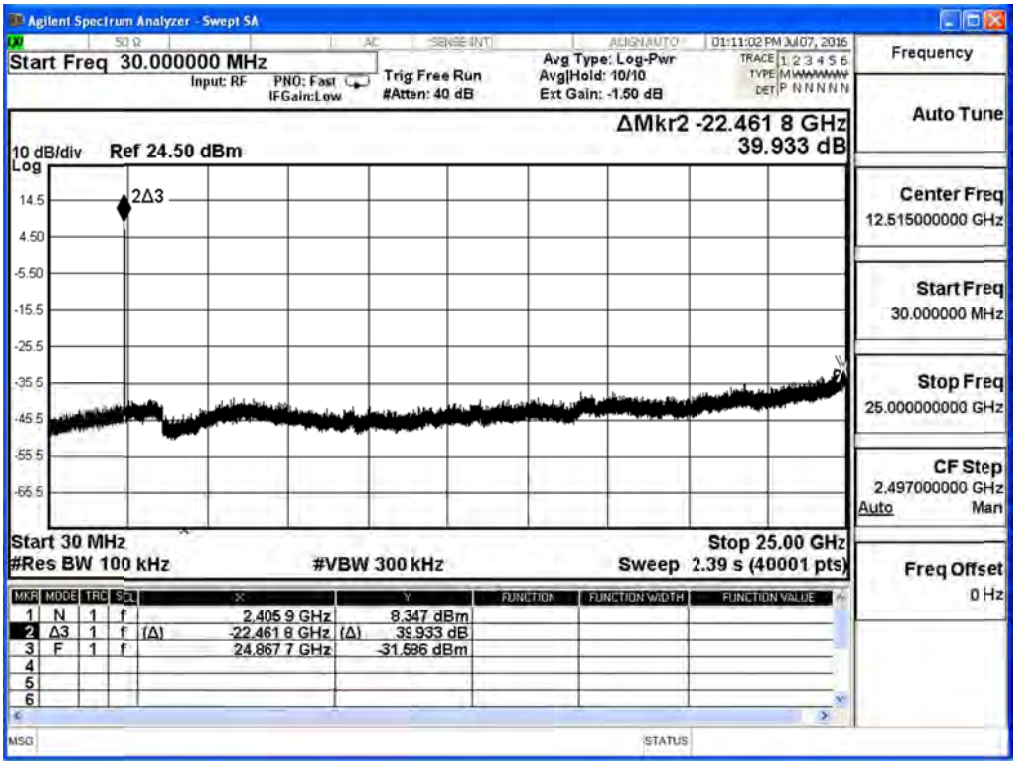
2437MHz (30MHz-25GHz)-802.11g-ANT 0



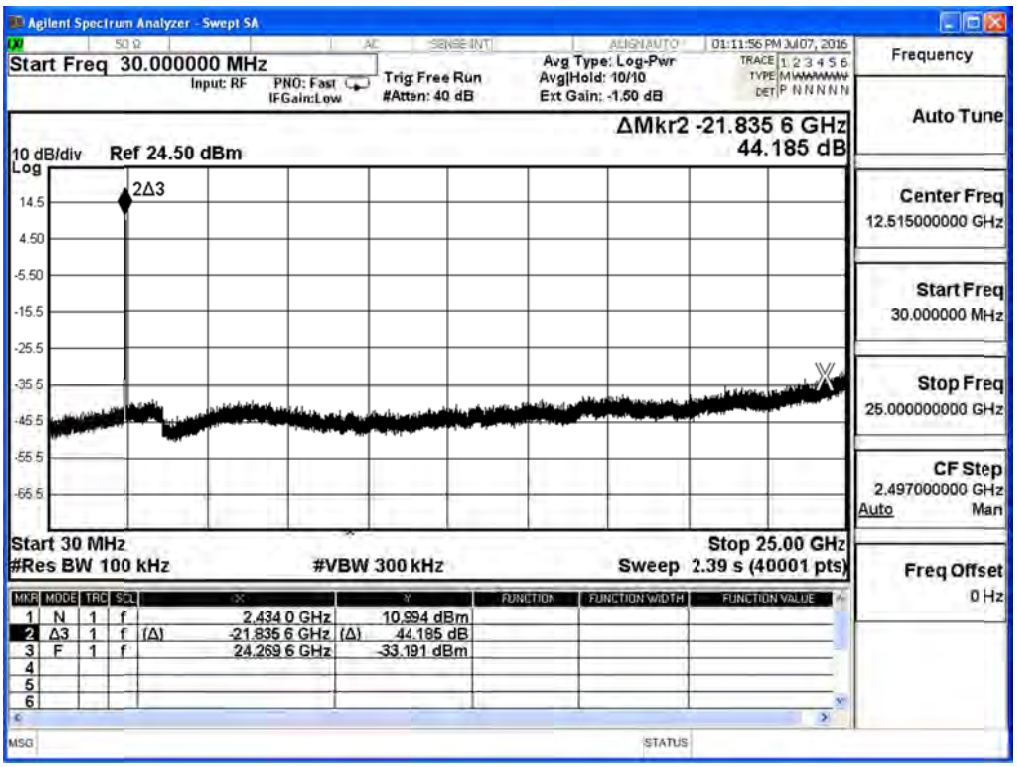
2462MHz (30MHz-25GHz) -802.11g-ANT 0



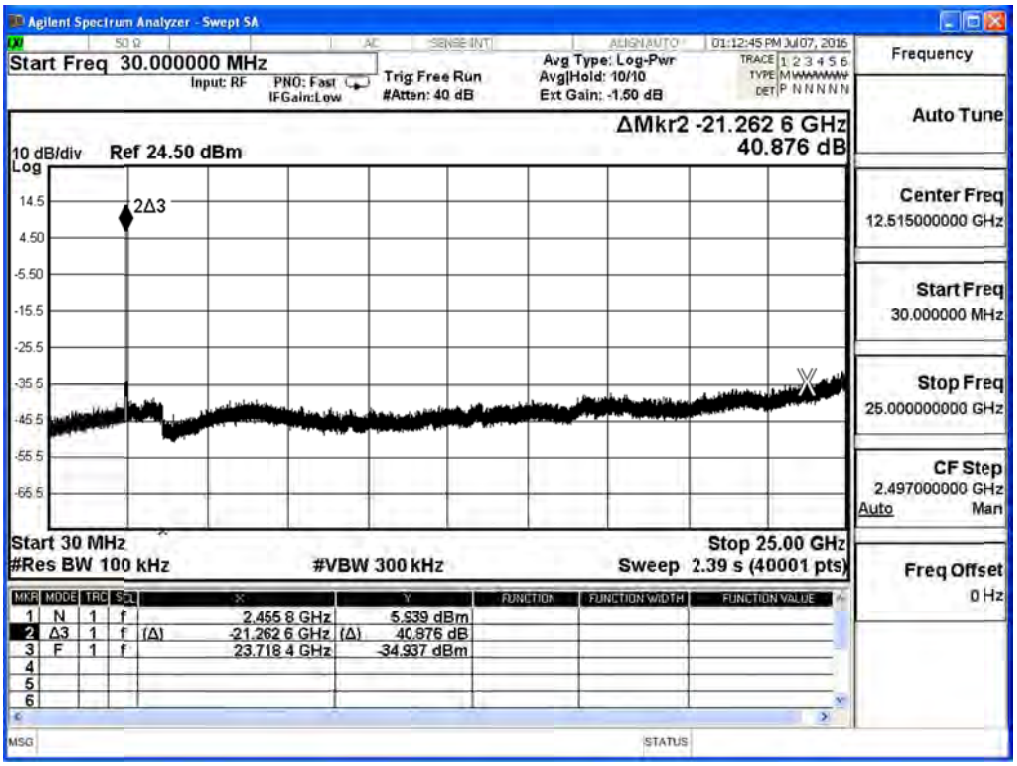
2412MHz (30MHz-25GHz)-802.11g-ANT 1



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

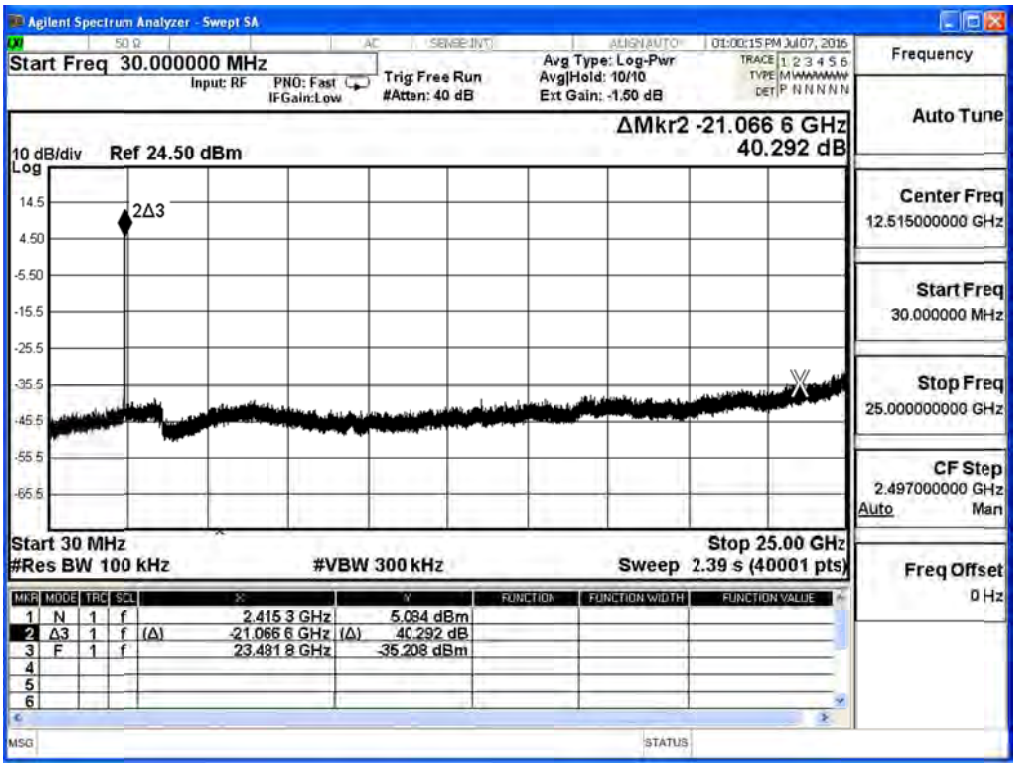


2462MHz (30MHz-25GHz) -802.11g-ANT 1

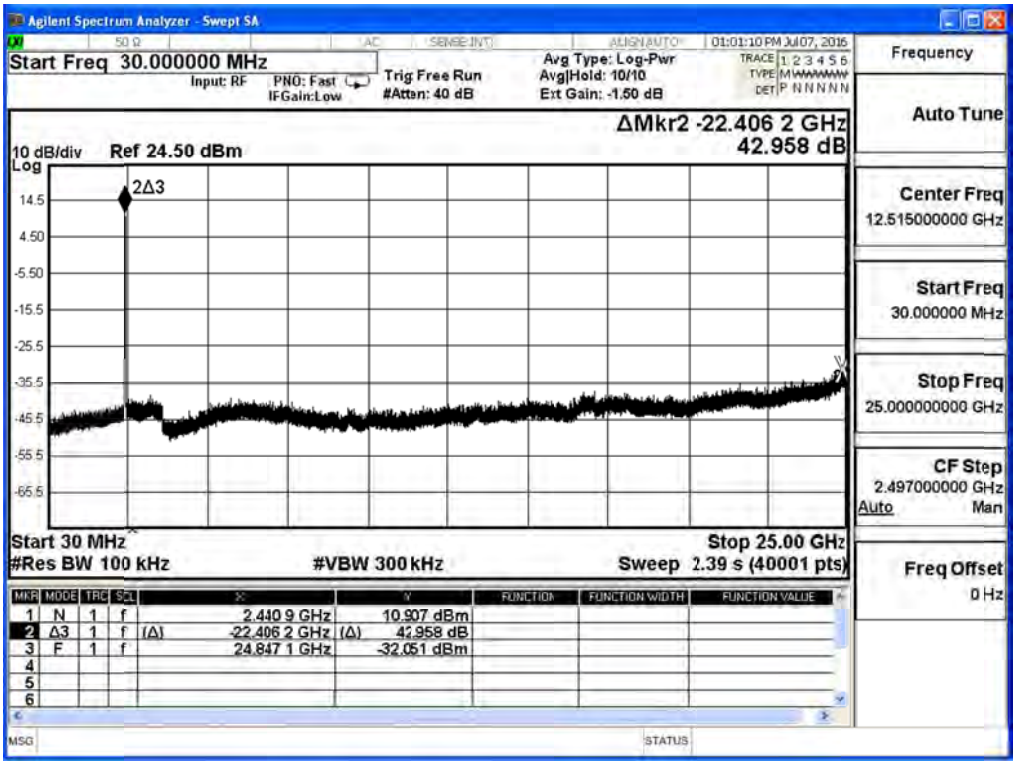


Product	Wireless-AC1700 Dual Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 2: TX_Beamforming Mode (11 n20/n40)_ ADP1		
Date of Test	2016/06/14	Test Site	SR7

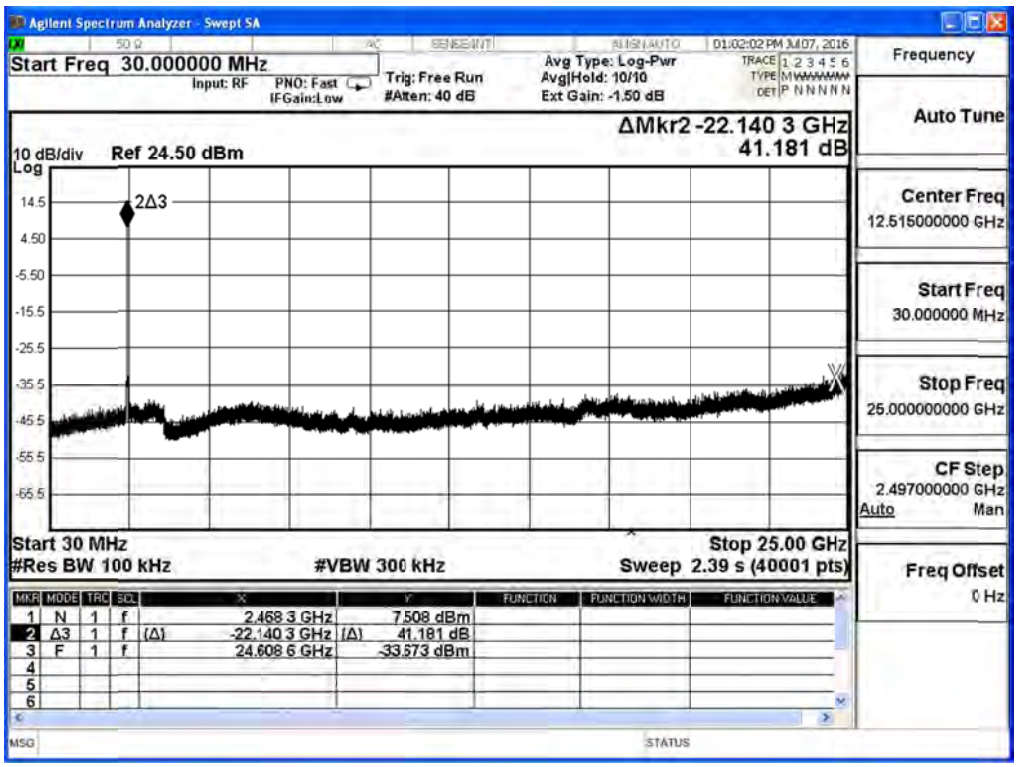
2412MHz (30MHz-25GHz)-802.11n(20MHz)-ANT 0



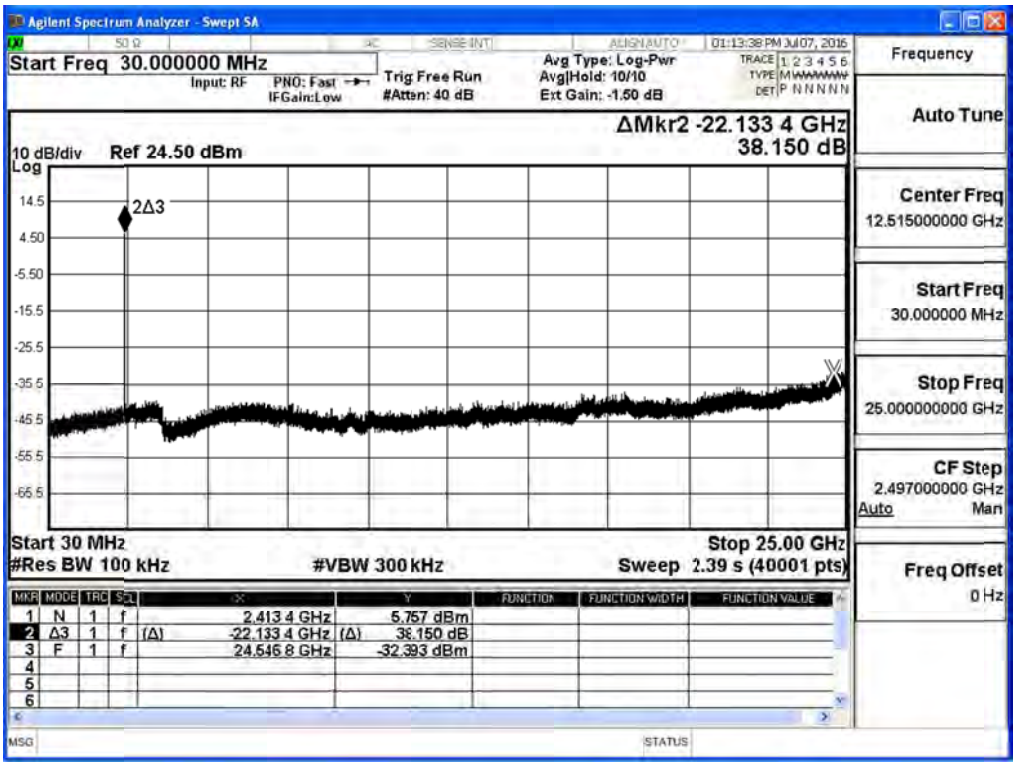
2437MHz (30MHz-25GHz)- 802.11n(20MHz)-ANT 0



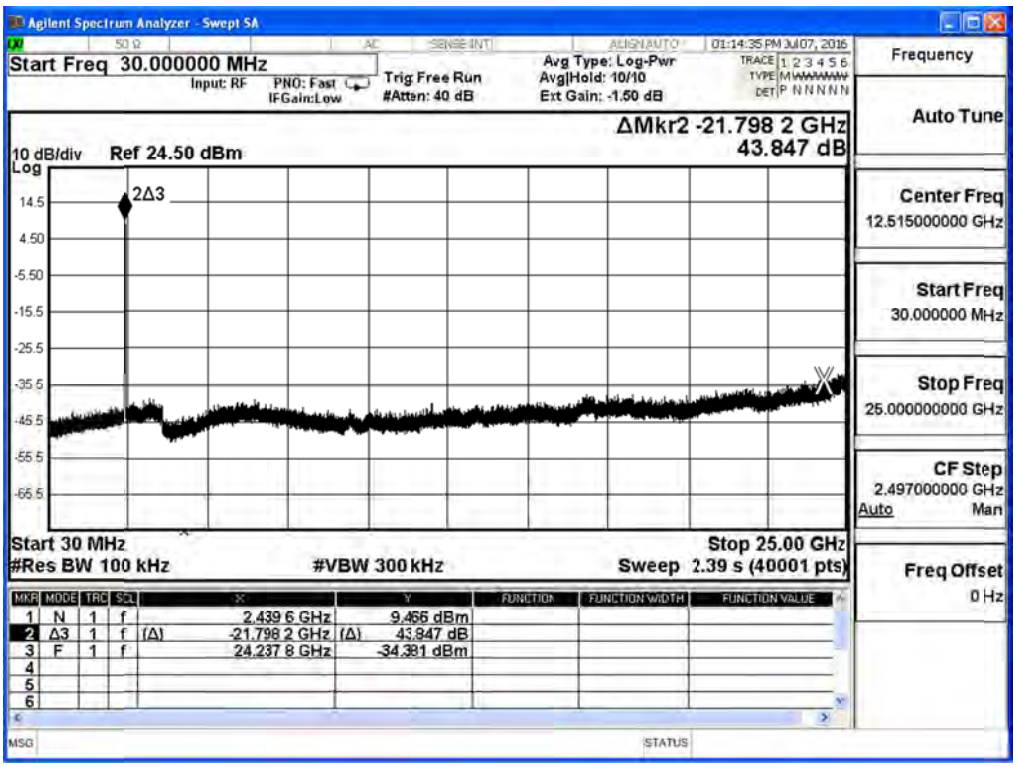
2462MHz (30MHz-25GHz) -802.11n(20MHz)-ANT 0



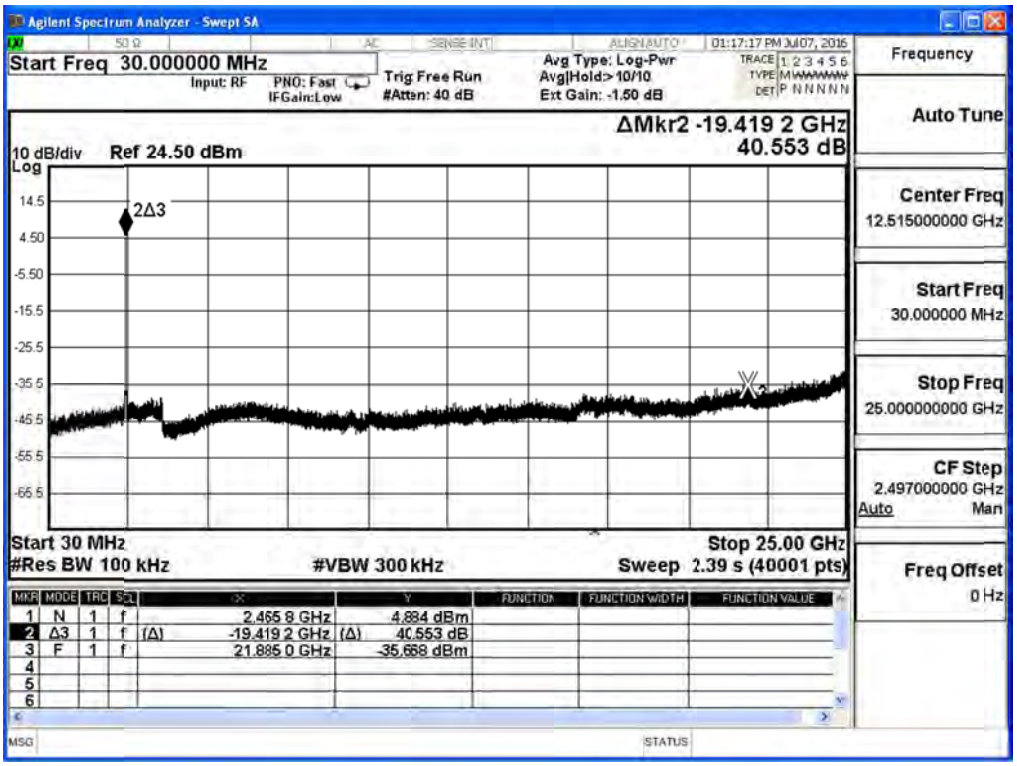
2412MHz (30MHz-25GHz)-802.11n(20MHz)-ANT 1



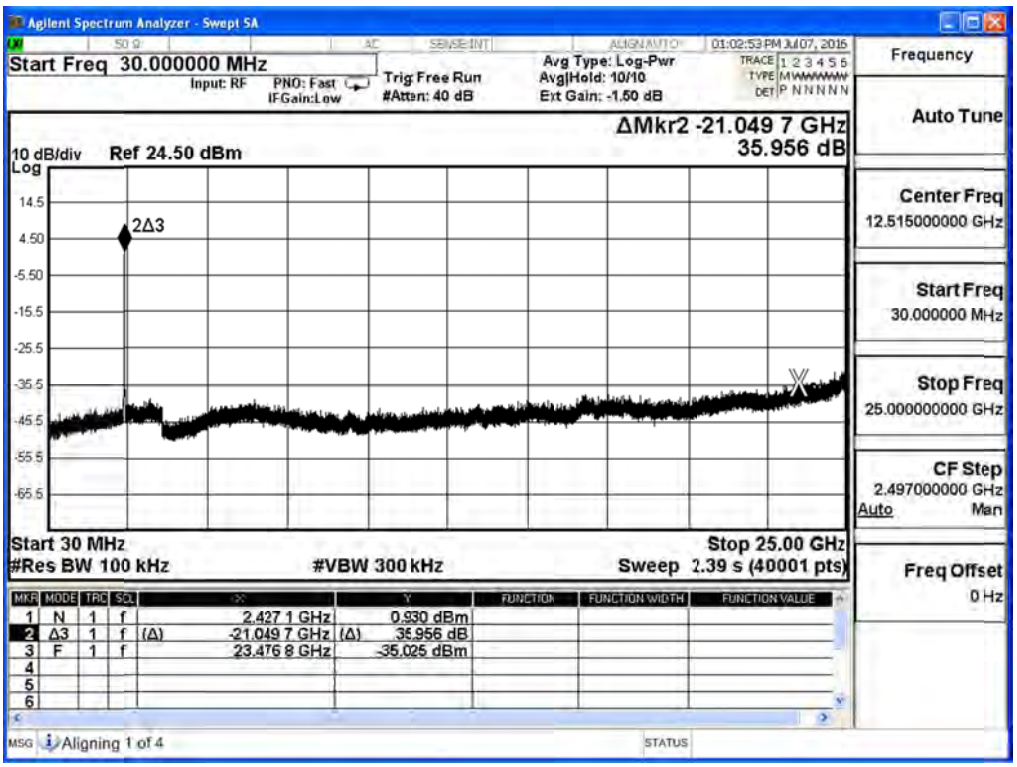
2437MHz (30MHz-25GHz)- 802.11n(20MHz)-ANT 1



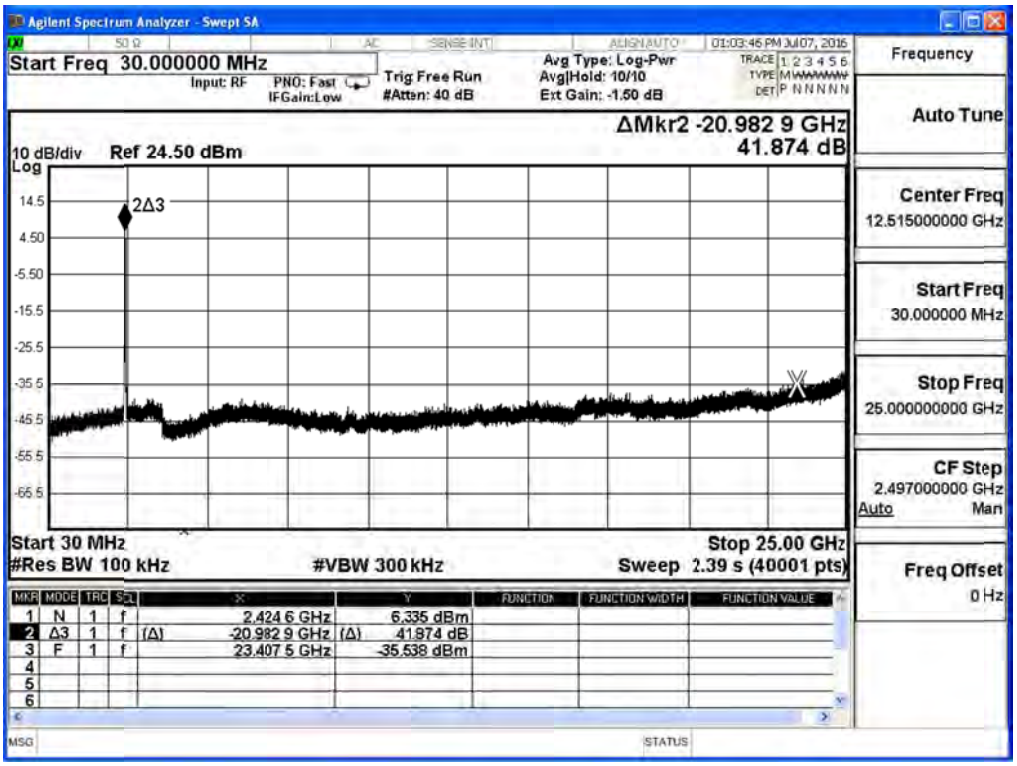
2462MHz (30MHz-25GHz) -802.11n(20MHz)-ANT 1



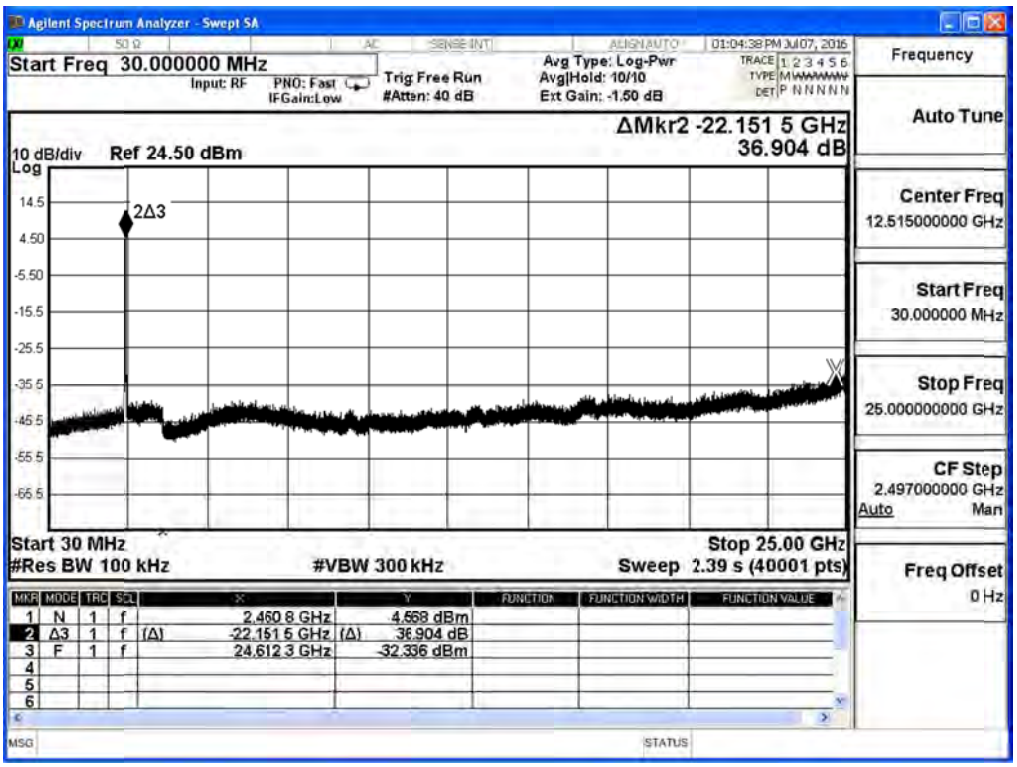
2422MHz (30MHz-25GHz) -802.11n(40MHz)-ANT 0



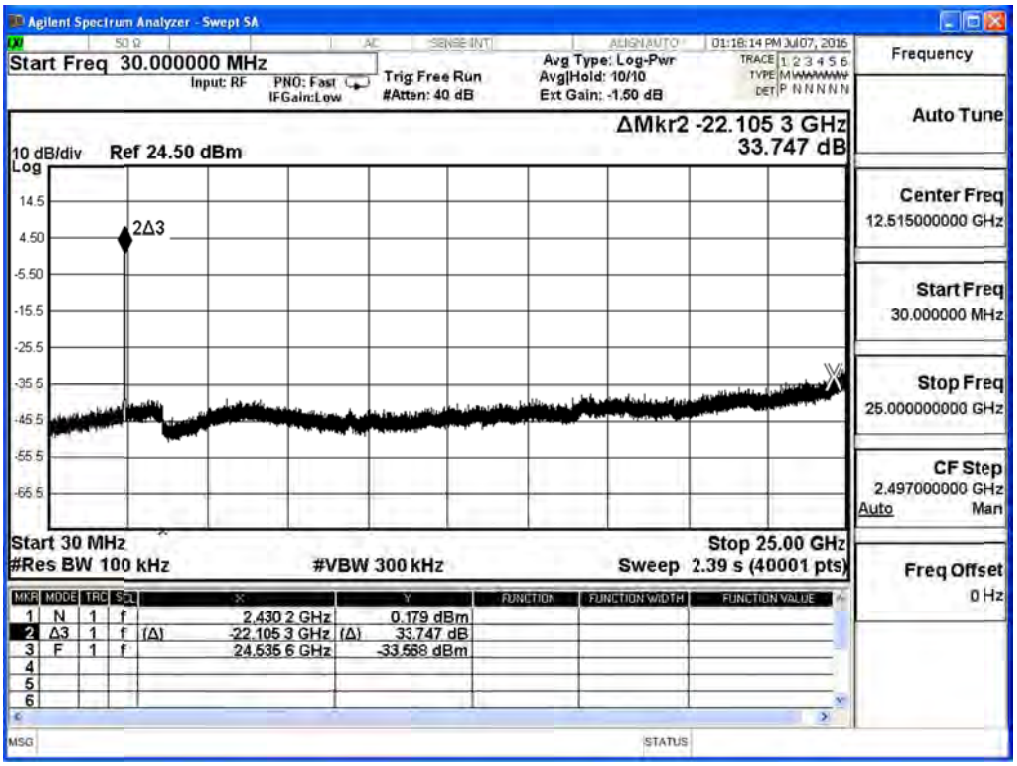
2437MHz (30MHz-25GHz) -802.11n(40MHz)-ANT 0



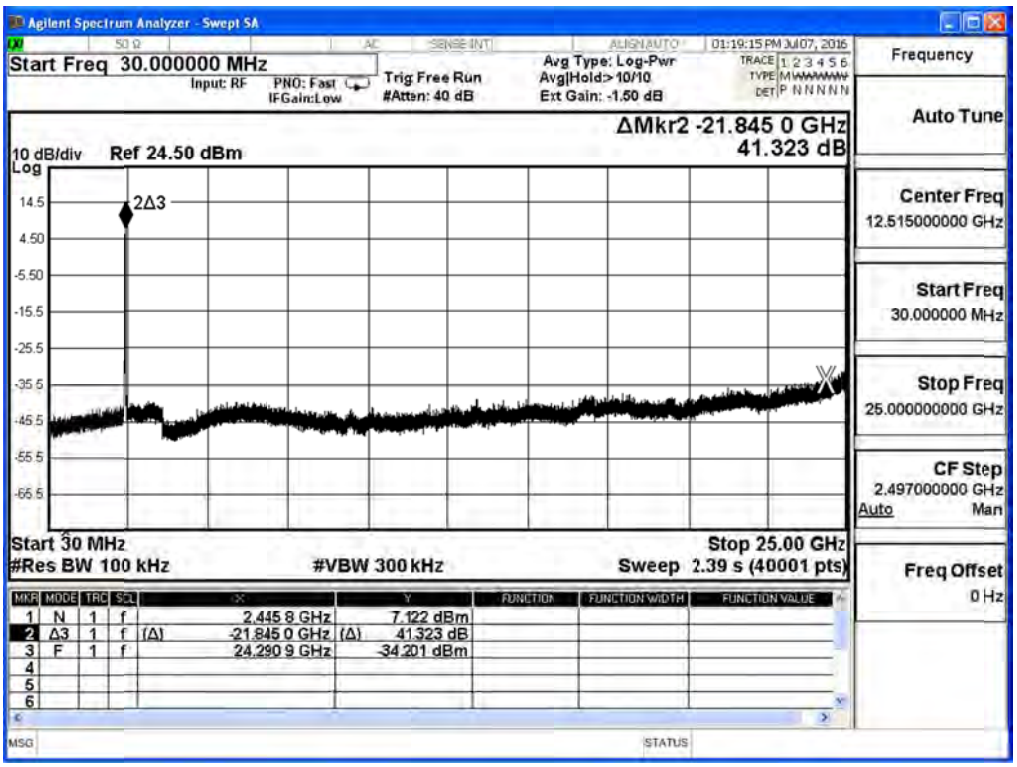
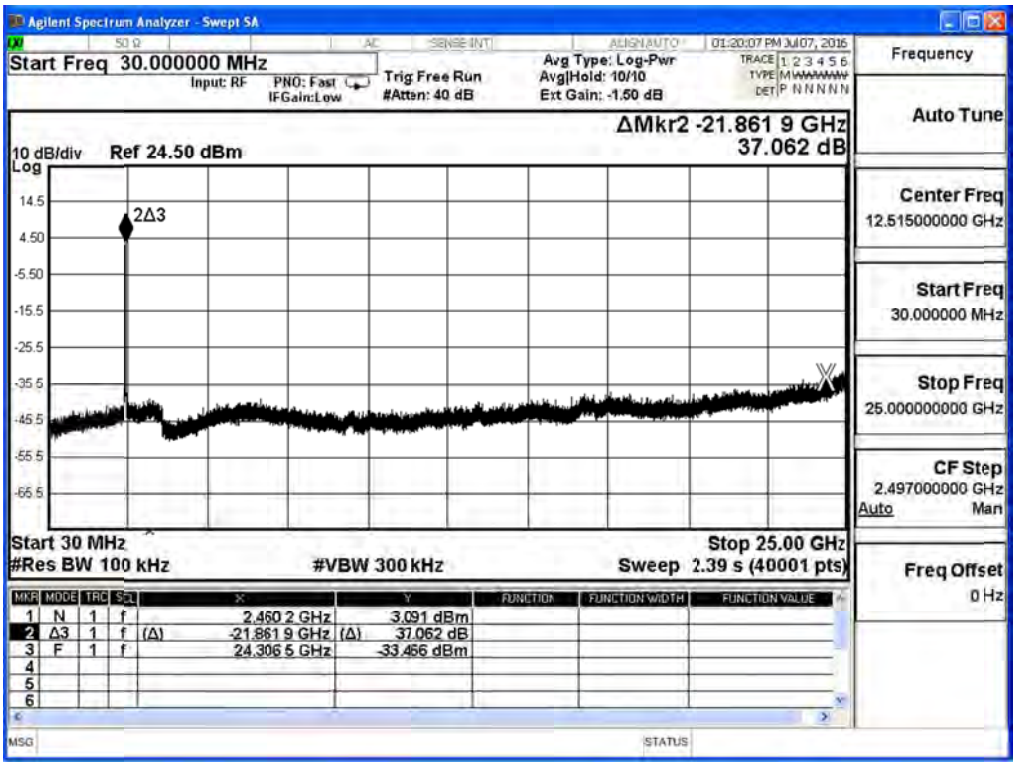
2452MHz (30MHz-25GHz) -802.11n(40MHz)-ANT 0



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



2437MHz (30MHz-25GHz) -802.11n(40MHz)-ANT 1



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