

FCC Test Report

Product Name : Wireless-AC2600 Dual Band Gigabit Router

Trade Name : ASUS

Model No. : BLUE CAVE

FCC ID. : MSQ-RTHK00

Applicant : ASUSTeK COMPUTER INC.

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

Date of Receipt : Apr. 06, 2017

Issued Date : May 15, 2017

Report No. : 1740167R-RFUSP03V00-A

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 : May 15, 2017


Report No. : 1740167R-RFUSP03V00-A



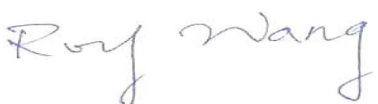
Product Name : Wireless-AC2600 Dual Band Gigabit Router
Applicant : ASUSTeK COMPUTER INC.
Address : 4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan
Manufacturer : ASUSTeK COMPUTER INC.
Model No. : BLUE CAVE
FCC ID. : MSQ-RTHK00
EUT Voltage : AC 100-240V, 50-60Hz
Testing Voltage : AC 120V/60Hz
Trade Name : ASUS
Applicable Standard : FCC CFR Title 47 Part 15 Subpart C Section 15.247: 2015
Test Result : Complied
Laboratory Name : Hsin Chu Laboratory
Address : 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

Documented By : 

(Carol Tsai / Senior Engineering Adm. Specialist)

Tested By : 

(Scott Chang / Assistant Engineer)

Approved By : 

(Roy Wang / Director)

Revision History

Report No.	Version	Description	Issued Date
1740167R-RFUSP03V00-A	V1.0	Initial issue of report	May 15, 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: 834100
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 contact information is 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	9
1.3. Tested System Details	10
1.4. Configuration of tested System	10
1.5. EUT Exercise Software	10
1.6. Test Facility	11
1.7. Duty cycle	12
2. Conducted Emission	13
2.1. Test Equipment.....	13
2.2. Test Setup	13
2.3. Limits	14
2.4. Test Procedure	14
2.5. Test Specification.....	14
2.6. Uncertainty	14
2.7. Test Result.....	15
3. Peak Power Output	19
3.1. Test Equipment.....	19
3.2. Test Setup	19
3.3. Test procedures	19
3.4. Limits	19
3.5. Test Specification.....	19
3.6. Test Result.....	20
4. Radiated Emission	21
4.1. Test Equipment.....	21
4.2. Test Setup	22
4.3. Limits	23
4.4. Test Procedure	23
4.5. Test Specification.....	23
4.6. Test Result.....	24
5. RF antenna conducted test	40
5.1. Test Equipment.....	40
5.2. Test Setup	40
5.3. Limits	41
5.4. Test Procedure	41
5.5. Test Specification.....	41
5.6. Test Result.....	42
6. Band Edge.....	46
6.1. Test Equipment.....	46
6.2. Test Setup	46

6.3.	Limits	47
6.4.	Test Procedure	47
6.5.	Test Specification.....	47
6.6.	Test Result.....	48
7.	Occupied Bandwidth & DTS Bandwidth	60
7.1.	Test Equipment.....	60
7.2.	Test Setup	60
7.3.	Limits	60
7.4.	Test Procedures	60
7.5.	Test Specification.....	60
7.6.	Test Result.....	61
8.	Power Density	65
8.1.	Test Equipment.....	65
8.2.	Test Setup	65
8.3.	Limits	65
8.4.	Test Procedures	65
8.5.	Test Specification.....	65
8.6.	Uncertainty	65
8.7.	Test Result.....	66
Attachment 1	69
	Test Setup Photograph	69
Attachment 2	74
	EUT External Photograph.....	74
Attachment 3	80
	EUT Internal Photograph.....	80

1. General Information

1.1. EUT Description

Product Name	Wireless-AC2600 Dual Band Gigabit Router
Trade Name	ASUS
Model No.	BLUE CAVE
Frequency Range/Channel Number	2402~2480MHz / 40 Channels
Type of Modulation	Bluetooth 4.0(GFSK)

Antenna Information	
Antenna Type	Chip antenna
Antenna Gain	2 dBi

Accessories Information	
LAN Cable	Non-Shielded, 1.5m
Power Adatper (Level 6)	ASUS, AD890326 I/P : 100-240V~ 50/60Hz 0.8A O/P : 19V \equiv 1.75A Cable Out: Non-Shielded, 2.4m
Power Adatper (Level 6)	ASUS, ADP-33AW B I/P : 100-240V~1A 50-60Hz O/P : 19V \equiv 1.75A Cable Out: Non-Shielded, 2.2m

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 00	2402 MHz	Channel 10	2422 MHz	Channel 20	2442 MHz	Channel 30	2462 MHz
Channel 01	2404 MHz	Channel 11	2424 MHz	Channel 21	2444 MHz	Channel 31	2464 MHz
Channel 02	2406 MHz	Channel 12	2426 MHz	Channel 22	2446 MHz	Channel 32	2466 MHz
Channel 03	2408 MHz	Channel 13	2428 MHz	Channel 23	2448 MHz	Channel 33	2468 MHz
Channel 04	2410 MHz	Channel 14	2430 MHz	Channel 24	2450 MHz	Channel 34	2470 MHz
Channel 05	2412 MHz	Channel 15	2432 MHz	Channel 25	2452 MHz	Channel 35	2472 MHz
Channel 06	2414 MHz	Channel 16	2434 MHz	Channel 26	2454 MHz	Channel 36	2474 MHz
Channel 07	2416MHz	Channel 17	2436 MHz	Channel 27	2456 MHz	Channel 37	2476 MHz
Channel 08	2418 MHz	Channel 18	2438 MHz	Channel 28	2458 MHz	Channel 38	2478 MHz
Channel 09	2420 MHz	Channel 19	2440 MHz	Channel 29	2460 MHz	Channel 39	2480 MHz

Note:

1. This device is a Wireless-AC2600 Dual Band Gigabit Router including 2.4GHz b/g/n and 5GHz a/n/ac and BT4.0 / BT 2.0 transmitting and receiving function.
2. 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.
3. The function of the BT2.0/2.4GHz/5G transmitting is measured and makes a test report of the number: 1740167R-RFUSP03V00 & 1740167R-RFUSP28V00 & 1740167R-RFUSP43V00.
4. This device is a composite device in accordance with Part 15 regulations. The receiving function was tested and its number is 1740167R-RFUSP01V00.

1.2. Test Mode

DEKRA has verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Test Mode	Mode 1:TX_AD P: AD890326 Mode 2:TX_AD P: ADP-33AW B
-----------	--

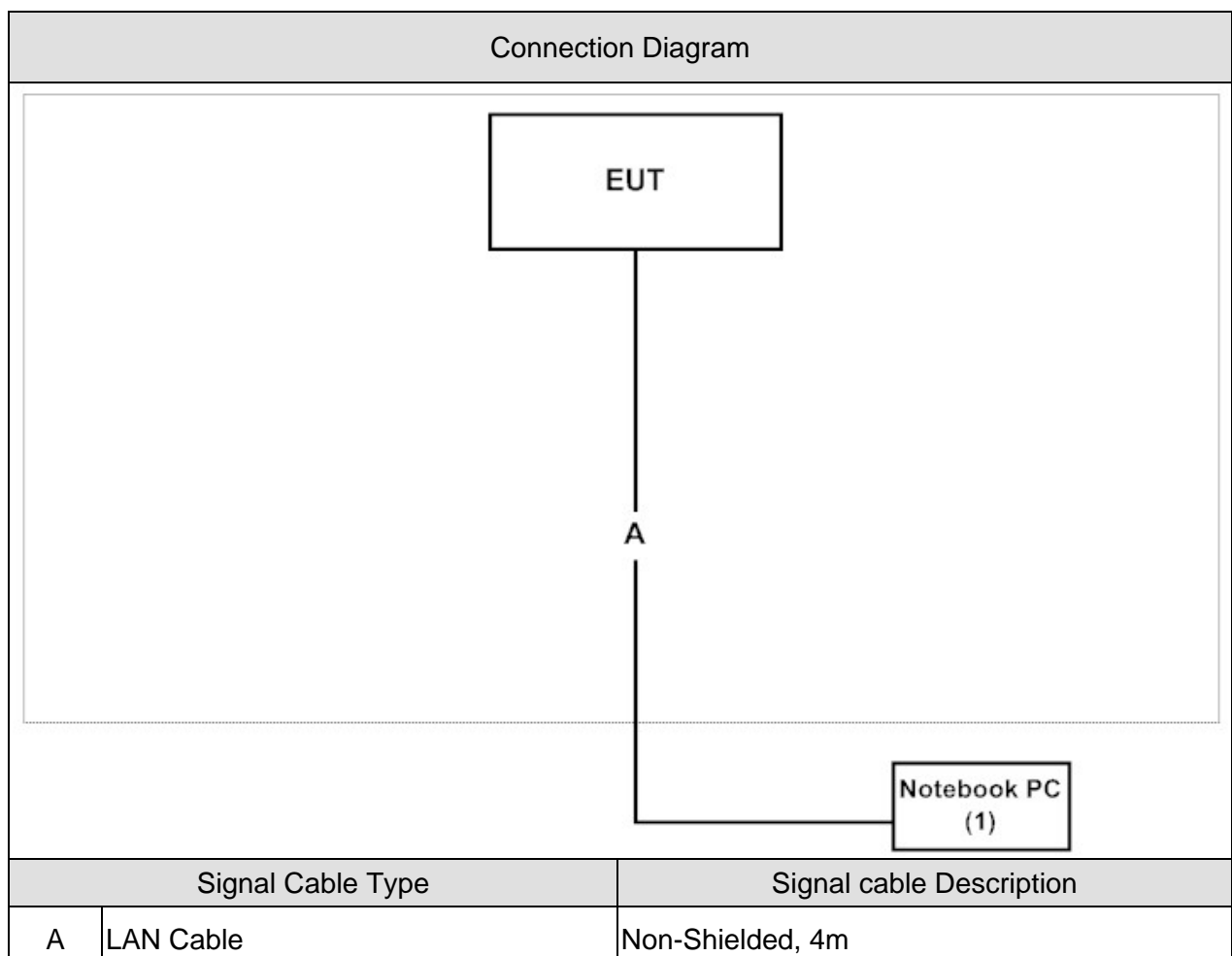
Test Items	Mode	Modulation	Channel	Result
Conducted Emission	1/2	GFSK	19	Complies
Peak Power Output	1	GFSK	00/19/39	Complies
Radiated Emission	1/2	GFSK	00/19/39	Complies
RF antenna conducted test	1	GFSK	00/19/39	Complies
Radiated Emission Band Edge	1	GFSK	00/39	Complies
Occupied Bandwidth	1	GFSK	00/19/39	Complies
Power Density	1	GFSK	00/19/39	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	Notebook PC	IBM	Think Pad 570	27L8835	DoC	Non-Shielded, 1.8m, one ferrite core bonded

1.4. Configuration of tested System



1.5. EUT Exercise Software

1	Setup the EUT as shown in Section 1.4.
2	Execute the “Lantiq DUT” 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:

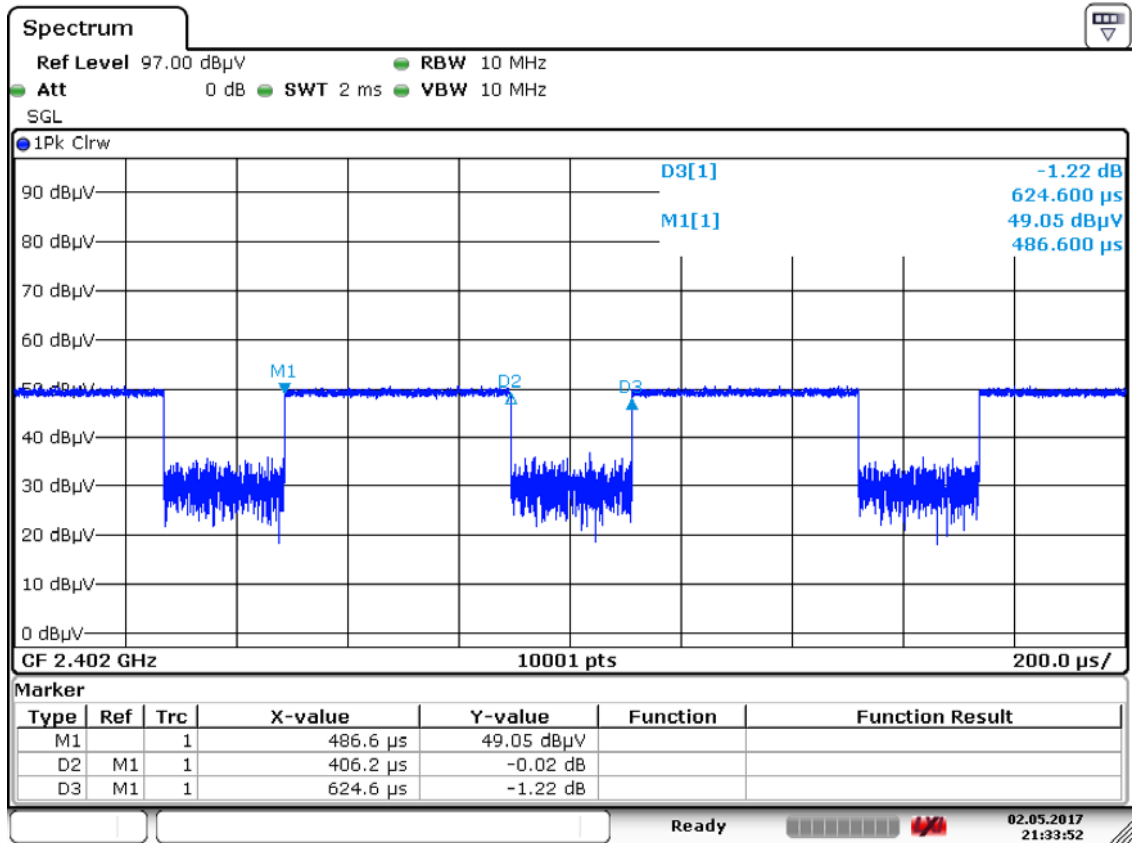
Items	Test Item	Required (IEC 68-1)	Actual	Test Site
Temperature (°C)	FCC PART 15 C 15.207 Conducted Emission	15 - 35	20	3
Humidity (%RH)		25 - 75	50	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Peak Power Output	15 - 35	24	3
Humidity (%RH)		25 - 75	45	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Radiated Emission	15 - 35	25	2
Humidity (%RH)		25 - 75	54	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Band Edge	15 - 35	25	2
Humidity (%RH)		25 - 75	50	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Occupied Bandwidth	15 - 35	24	3
Humidity (%RH)		25 - 75	45	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 RF antenna conducted test	15 - 35	24	3
Humidity (%RH)		25 - 75	45	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Power Density	15 - 35	24	3
Humidity (%RH)		25 - 75	45	
Barometric pressure (mbar)		860 - 1060	950-1000	

Note: Test site information refers to Laboratory Information.

1.7. Duty cycle

$$\text{Duty Cycle} = 4.06.2\text{msec} / 6.246\text{msec} = 0.613$$

$$\text{Duty Cycle correction factor} = 20 \text{ LOG } 0.613 = -4.251 \text{ dB}$$



Date: 2.MAY.2017 21:33:52

2. Conducted Emission

2.1. Test Equipment

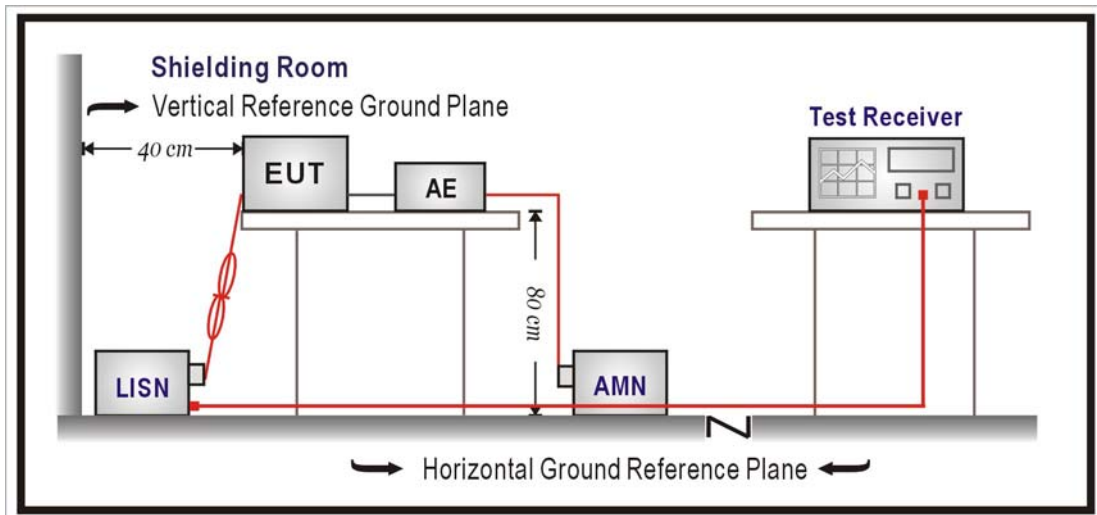
The following test equipment are used during the test:

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	2018/04/11

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 C63.10:2013 and tested according to DTS test procedure of KDB558074 for compliance to FCC 47CFR 15.247 requirements.

The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs.)

Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

2.5. Test Specification

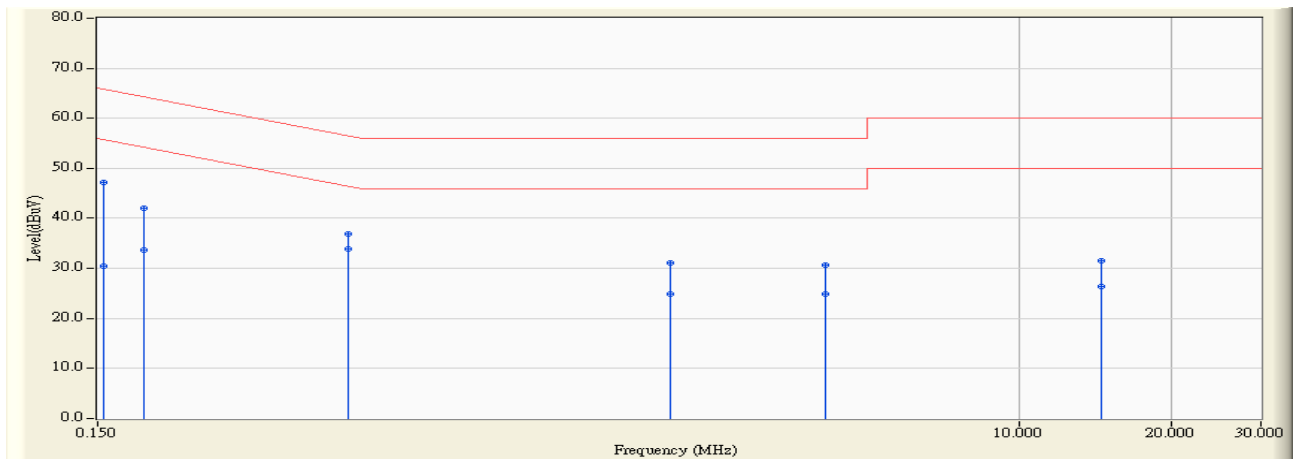
According to FCC Part 15 Subpart C Paragraph 15.207: 2015

2.6. Uncertainty

The measurement uncertainty is defined as ± 2.26 dB.

2.7. Test Result

Site : SR2-H	Time : 2017/05/02
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-H_LISN(16A)-6_0712 - Line1	Power : AC 120V/60Hz
EUT : Wireless-AC2600 Dual Band Gigabit Router	Note : Mode 1:TX_AD P: AD890326 802.15.1_BLE_2440MHz

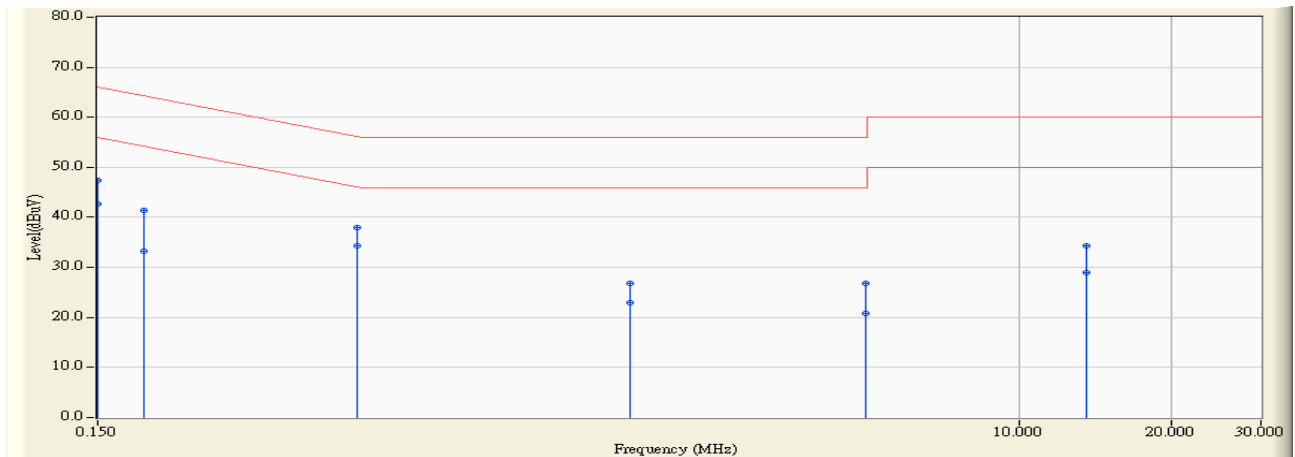


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.154	9.747	37.370	47.116	-18.670	65.786	QUASPEAK
2	0.154	9.747	20.660	30.406	-25.380	55.786	AVERAGE
3	0.185	9.751	32.310	42.061	-22.190	64.251	QUASPEAK
4	0.185	9.751	23.970	33.721	-20.530	54.251	AVERAGE
5	0.470	9.729	27.140	36.869	-19.640	56.508	QUASPEAK
6	* 0.470	9.729	24.260	33.989	-12.520	46.508	AVERAGE
7	2.037	9.861	21.280	31.141	-24.859	56.000	QUASPEAK
8	2.037	9.861	15.040	24.901	-21.099	46.000	AVERAGE
9	4.119	9.920	20.820	30.740	-25.260	56.000	QUASPEAK
10	4.119	9.920	14.930	24.850	-21.150	46.000	AVERAGE
11	14.517	10.211	21.310	31.521	-28.479	60.000	QUASPEAK
12	14.517	10.211	16.240	26.451	-23.549	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 : 2017/05/02
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-H_LISN(16A)-6_0712 - Line2	Power : AC 120V/60Hz
EUT : Wireless-AC2600 Dual Band Gigabit Router	Note : Mode 1:TX_ADP: AD890326 802.15.1_BLE_2440MHz

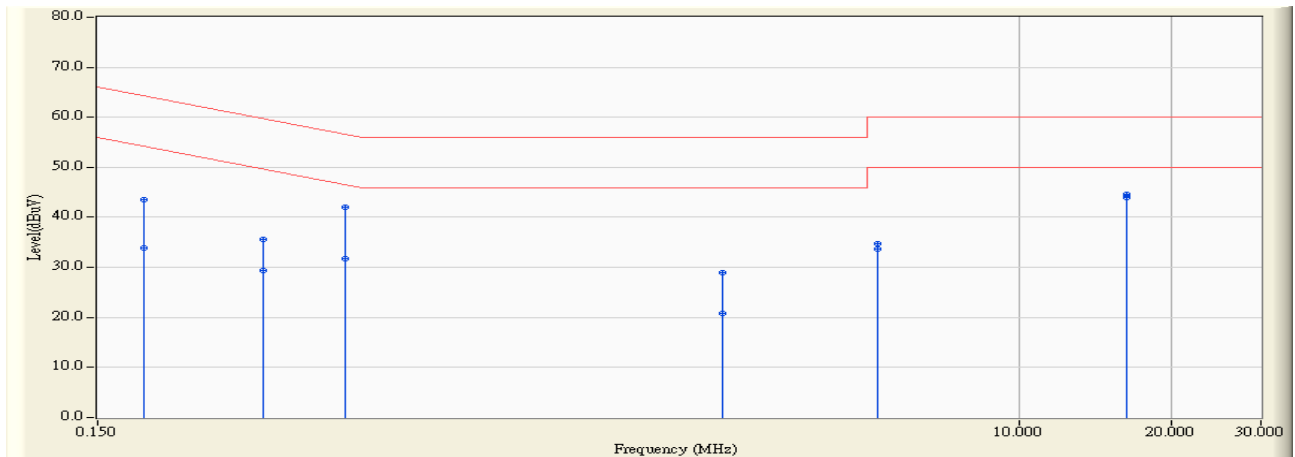


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.150	9.741	37.750	47.491	-18.509	66.000	QUASIPeAK
2		0.150	9.741	33.030	42.771	-13.229	56.000	AVERAGE
3		0.185	9.751	31.580	41.331	-22.920	64.251	QUASIPeAK
4		0.185	9.751	23.530	33.281	-20.970	54.251	AVERAGE
5		0.490	9.745	28.170	37.916	-18.255	56.170	QUASIPeAK
6	*	0.490	9.745	24.520	34.266	-11.905	46.170	AVERAGE
7		1.697	9.841	16.910	26.751	-29.249	56.000	QUASIPeAK
8		1.697	9.841	13.020	22.861	-23.139	46.000	AVERAGE
9		4.951	9.857	16.870	26.727	-29.273	56.000	QUASIPeAK
10		4.951	9.857	10.900	20.757	-25.243	46.000	AVERAGE
11		13.505	10.262	24.100	34.362	-25.638	60.000	QUASIPeAK
12		13.505	10.262	18.740	29.002	-20.998	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 : 2017/04/27
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-H_LISN(16A)-6_0712 - Line1	Power : AC 120V/60Hz
EUT : Wireless-AC2600 Dual Band Gigabit Router	Note : Mode 2:TX_ADP: ADP-33AW B 802.15.1_BLE_2440MHz

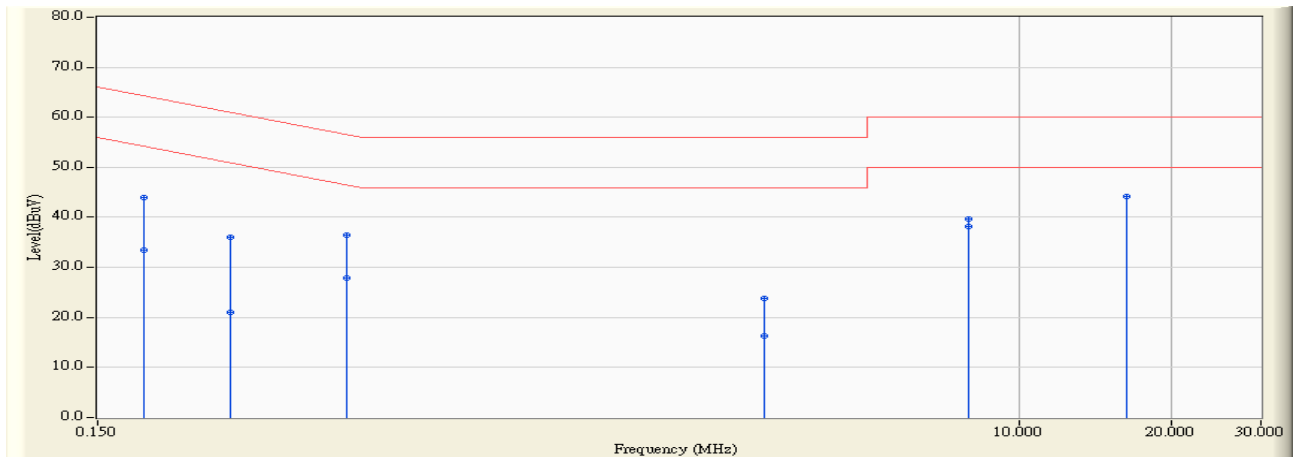


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.185	9.751	33.760	43.511	-20.740	64.251	QUASPEAK
2	0.185	9.751	24.130	33.881	-20.370	54.251	AVERAGE
3	0.318	9.738	25.890	35.628	-24.131	59.760	QUASPEAK
4	0.318	9.738	19.570	29.308	-20.451	49.760	AVERAGE
5	0.463	9.729	32.210	41.939	-14.709	56.648	QUASPEAK
6	0.463	9.729	21.940	31.669	-14.979	46.648	AVERAGE
7	2.580	9.877	19.110	28.987	-27.013	56.000	QUASPEAK
8	2.580	9.877	10.970	20.847	-25.153	46.000	AVERAGE
9	5.236	9.931	24.780	34.711	-25.289	60.000	QUASPEAK
10	5.236	9.931	23.640	33.571	-16.429	50.000	AVERAGE
11	16.228	10.250	34.460	44.709	-15.291	60.000	QUASPEAK
12	* 16.228	10.250	33.730	43.979	-6.021	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 : 2017/04/27
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-H_LISN(16A)-6_0712 - Line2	Power : AC 120V/60Hz
EUT : Wireless-AC2600 Dual Band Gigabit Router	Note : Mode 2:TX_ADP: ADP-33AW B 802.15.1_BLE_2440MHz



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.185	9.751	34.210	43.961	-20.290	64.251	QUASPEAK
2	0.185	9.751	23.810	33.561	-20.690	54.251	AVERAGE
3	0.275	9.750	26.290	36.040	-24.926	60.966	QUASPEAK
4	0.275	9.750	11.260	21.010	-29.956	50.966	AVERAGE
5	0.466	9.747	26.650	36.397	-20.181	56.578	QUASPEAK
6	0.466	9.747	18.240	27.987	-18.591	46.578	AVERAGE
7	3.134	9.844	14.040	23.884	-32.116	56.000	QUASPEAK
8	3.134	9.844	6.460	16.304	-29.696	46.000	AVERAGE
9	7.923	10.029	29.730	39.759	-20.241	60.000	QUASPEAK
10	7.923	10.029	28.120	38.149	-11.851	50.000	AVERAGE
11	16.228	10.357	33.830	44.187	-15.813	60.000	QUASPEAK
12	* 16.228	10.357	33.730	44.087	-5.913	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.

3.6. Test Result

Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	Peak Power Output		
Test Mode	Mode 1:TX_AD P: AD890326		
Date of Test	2017/05/03	Test Site	SR10-H

GFSK

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
00	2402	3.350	30	Pass
19	2440	3.550	30	Pass
39	2480	2.360	30	Pass

4. Radiated Emission

4.1. Test Equipment

The following test equipment are used during the test:

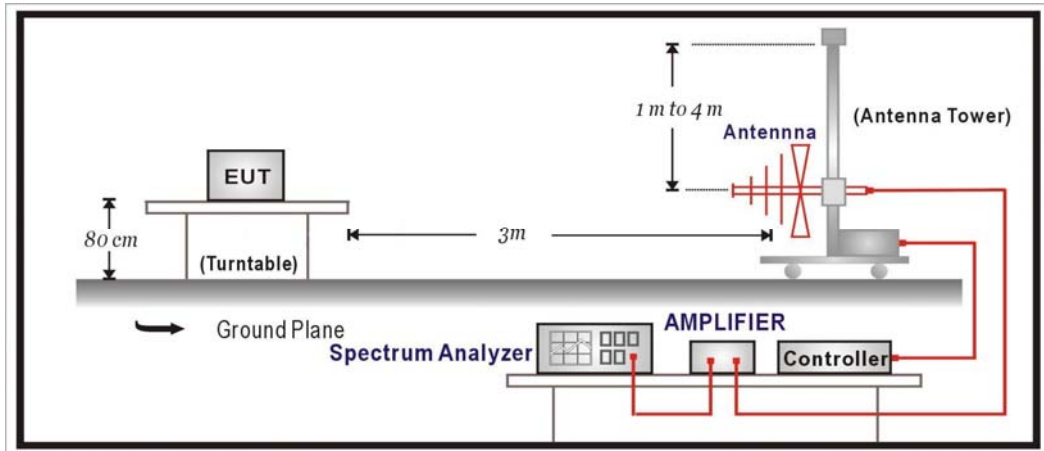
Radiated Emission / CB4-H

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum	Agilent	E4440A	MY46187335	2017/12/21
Bilog Antenna	Teseq	CBL6112D	23191	2017/07/04
Horn Antenna	Schwarzbeck	BBHA 9120 D	1640	2017/10/23
Pre-Amplifier	EMCI	EMC01820I	12143782	2018/03/08
Pre-Amplifier	EMCI	EMC01820I	980367	2018/02/09

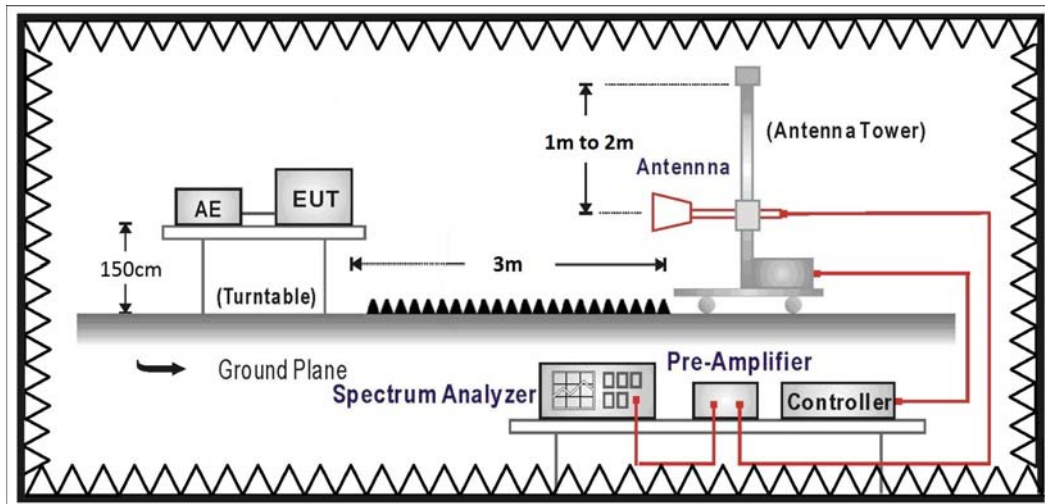
Note: All equipment that need to calibrate are with calibration period of 1 year.

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

Remarks : 1. RF Voltage (dBuV) = 20 log RF Voltage (uV)

2. In the Above Table, the tighter limit applies at the band edges.

3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

4.4. Test Procedure

The EUT was setup according to ANSI C63.10:2013 and tested according to DTS test procedure of KDB558074 V03R02 for compliance to FCC 47CFR 15.247 requirements. The EUT and its simulators are placed on a turn table which is 0.8 or 1.5 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10:2013 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.

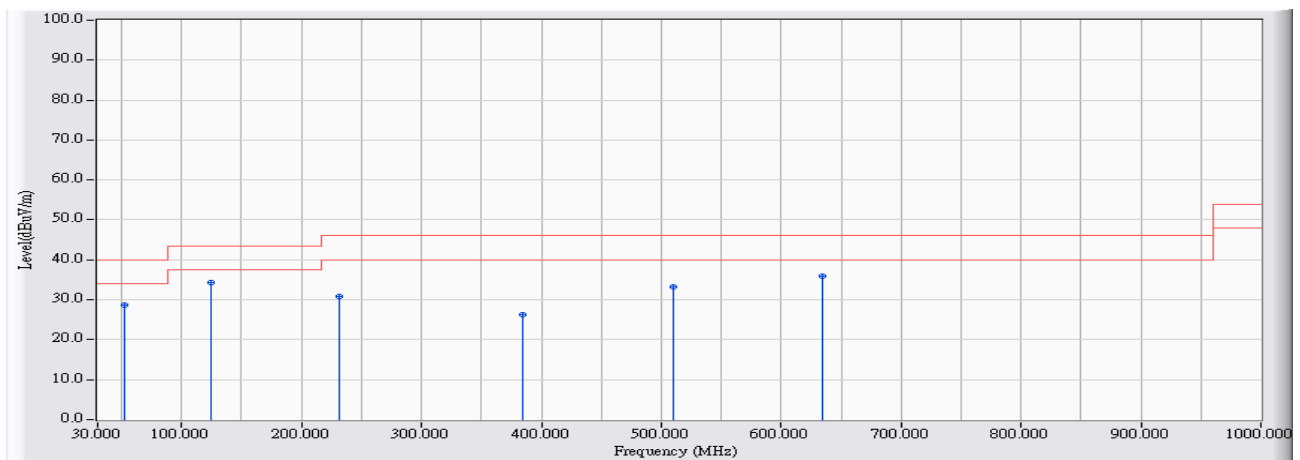
4.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247

4.6. Test Result

30MHz-1GHz Spurious

Site : CB4-H	Time : 2017/05/03
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4-H_FCC_EFS_S2_30M-1GHz_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless-AC2600 Dual Band Gigabit Router	Note : Mode 1:TX_ADP: AD890326 802.15.1_BLE_2440MHz

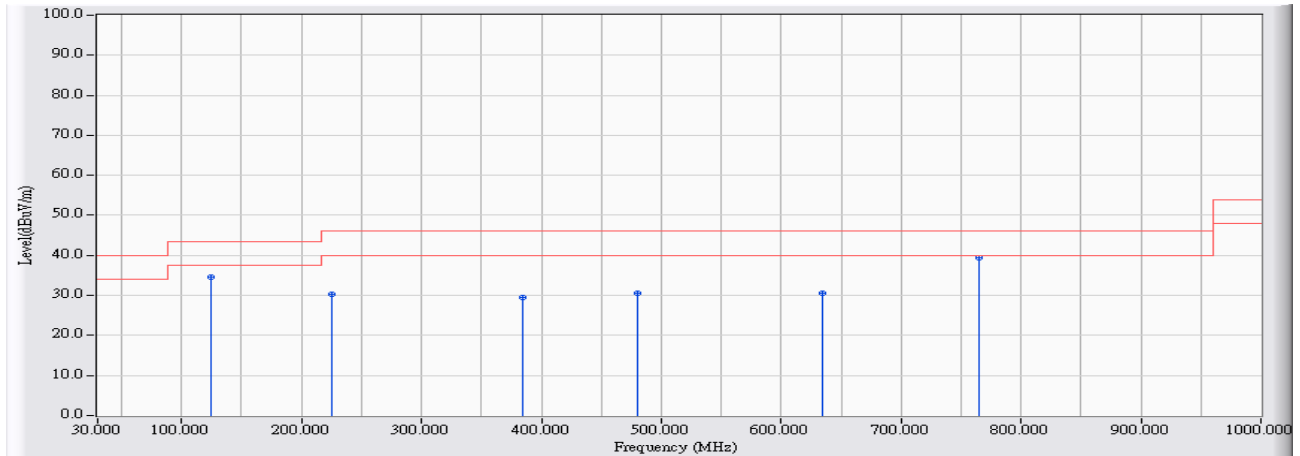


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	52.698	-26.315	54.927	28.611	-11.389	40.000	QUASPEAK
2	* 124.963	-21.197	55.460	34.263	-9.237	43.500	QUASPEAK
3	231.178	-21.338	52.050	30.712	-15.288	46.000	QUASPEAK
4	384.923	-16.441	42.734	26.293	-19.707	46.000	QUASPEAK
5	509.956	-13.597	46.853	33.256	-12.744	46.000	QUASPEAK
6	634.989	-12.433	48.262	35.829	-10.171	46.000	QUASPEAK

Note:

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

Site : CB4-H	Time : 2017/05/03
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4-H_FCC_EFS_S2_30M-1GHz_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless-AC2600 Dual Band Gigabit Router	Note : Mode 1:TX_AD P: AD890326 802.15.1_BLE_2440MHz

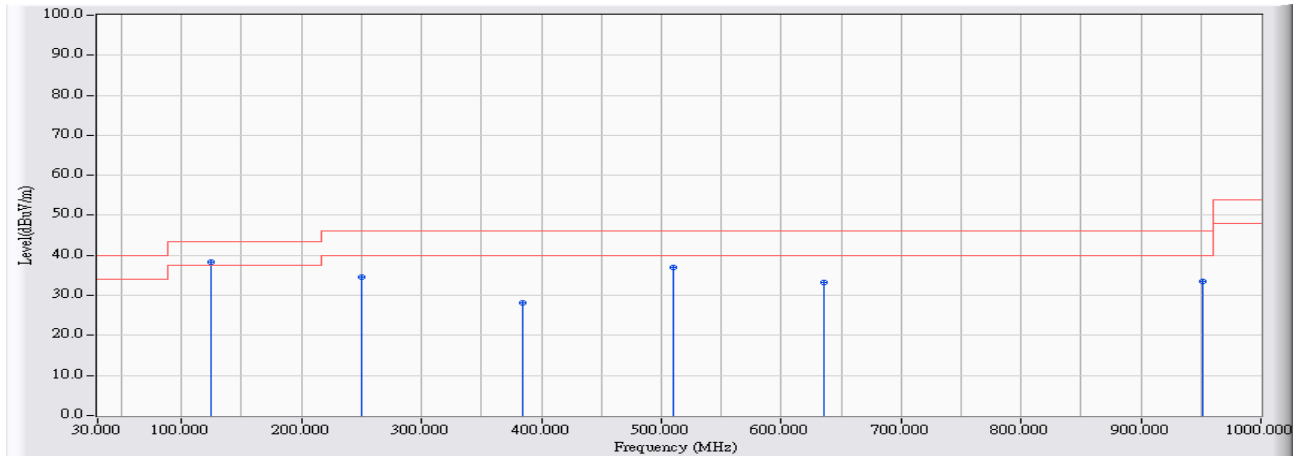


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	124.963	-21.197	55.752	34.555	-8.945	43.500	QUASPEAK
2	225.164	-21.720	51.972	30.253	-15.747	46.000	QUASPEAK
3	383.953	-16.467	45.857	29.390	-16.610	46.000	QUASPEAK
4	479.886	-14.514	45.197	30.683	-15.317	46.000	QUASPEAK
5	634.989	-12.433	43.077	30.644	-15.356	46.000	QUASPEAK
6	* 765.066	-10.776	50.072	39.296	-6.704	46.000	QUASPEAK

Note:

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

Site : CB4-H	Time : 2017/05/04
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4-H_FCC_EFS_S2_30M-1GHz_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless-AC2600 Dual Band Gigabit Router	Note : Mode 2:TX_AD P: ADP-33AW B 802.15.1_BLE_2440MHz

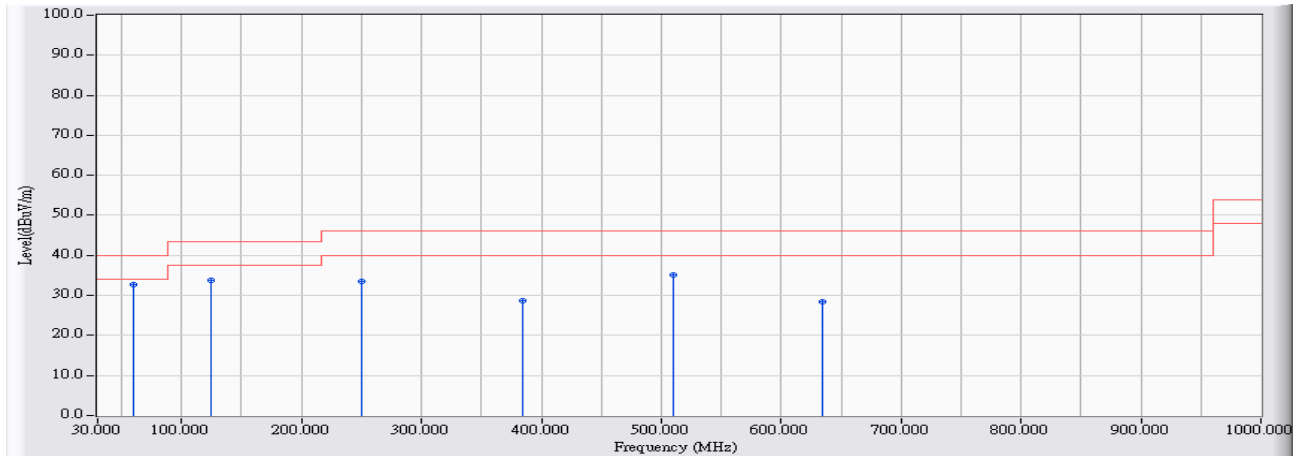


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	124.866	-21.196	59.608	38.413	-5.087	43.500	QUASIPeAK
2		249.996	-20.128	54.703	34.575	-11.425	46.000	QUASIPeAK
3		385.020	-16.438	44.716	28.277	-17.723	46.000	QUASIPeAK
4		509.956	-13.597	50.481	36.884	-9.116	46.000	QUASIPeAK
5		635.086	-12.438	45.611	33.173	-12.827	46.000	QUASIPeAK
6		951.209	-7.182	40.818	33.635	-12.365	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 : 2017/05/04
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4-H_FCC_EFS_S2_30M-1GHz_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless-AC2600 Dual Band Gigabit Router	Note : Mode 2:TX_AD P: ADP-33AW B 802.15.1_BLE_2440MHz



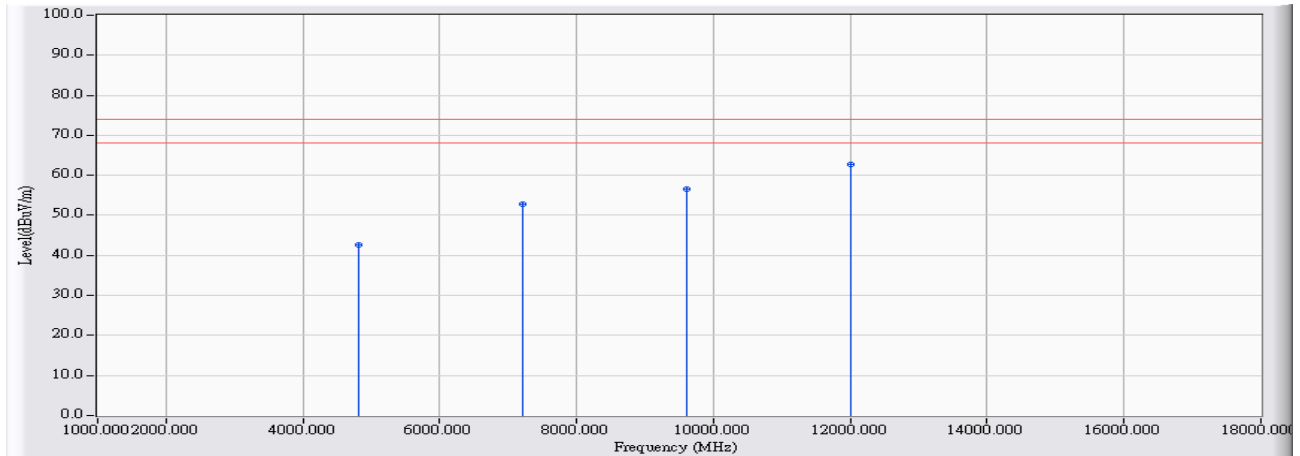
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	59.294	-28.117	60.958	32.841	-7.159	40.000	QUASIPeAK
2		124.963	-21.197	55.023	33.826	-9.674	43.500	QUASIPeAK
3		249.996	-20.128	53.526	33.398	-12.602	46.000	QUASIPeAK
4		383.953	-16.467	45.196	28.729	-17.271	46.000	QUASIPeAK
5		509.956	-13.597	48.653	35.056	-10.944	46.000	QUASIPeAK
6		634.989	-12.433	40.846	28.413	-17.587	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

Harmonic & Spurious:

Site : CB4-H	Time : 2017/05/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless-AC2600 Dual Band Gigabit Router	Note : Mode 1:TX_AD P: AD890326 802.15.1_BLE_2402MHz

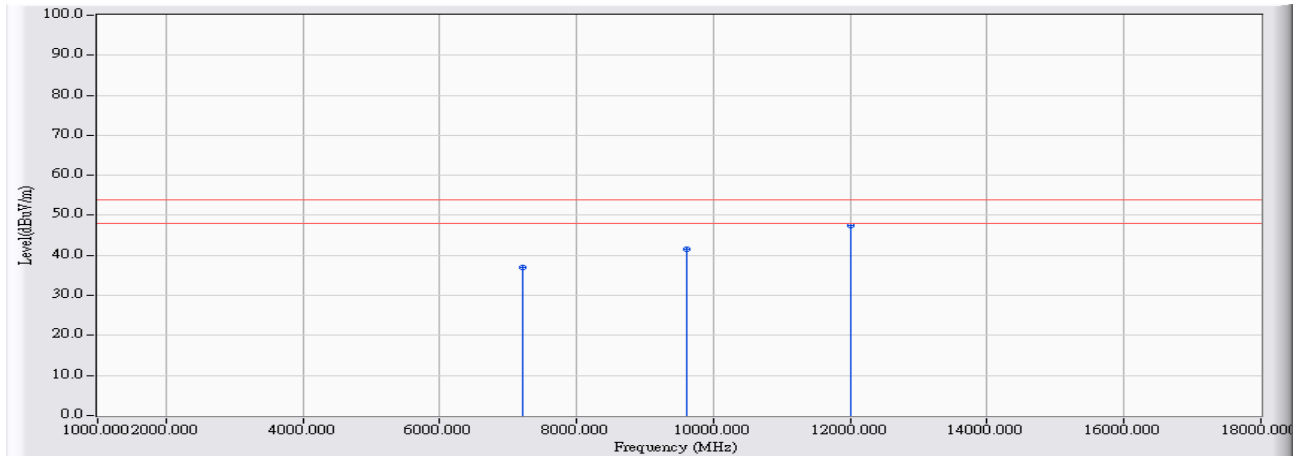


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4804.000	7.579	34.950	42.529	-31.471	74.000	PEAK
2	7210.000	16.181	36.560	52.742	-21.258	74.000	PEAK
3	9612.000	21.898	34.740	56.637	-17.363	74.000	PEAK
4	* 12009.000	26.454	36.340	62.794	-11.206	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 13GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/05/03
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless-AC2600 Dual Band Gigabit Router	Note : Mode 1:TX_AD P: AD890326 802.15.1_BLE_2402MHz

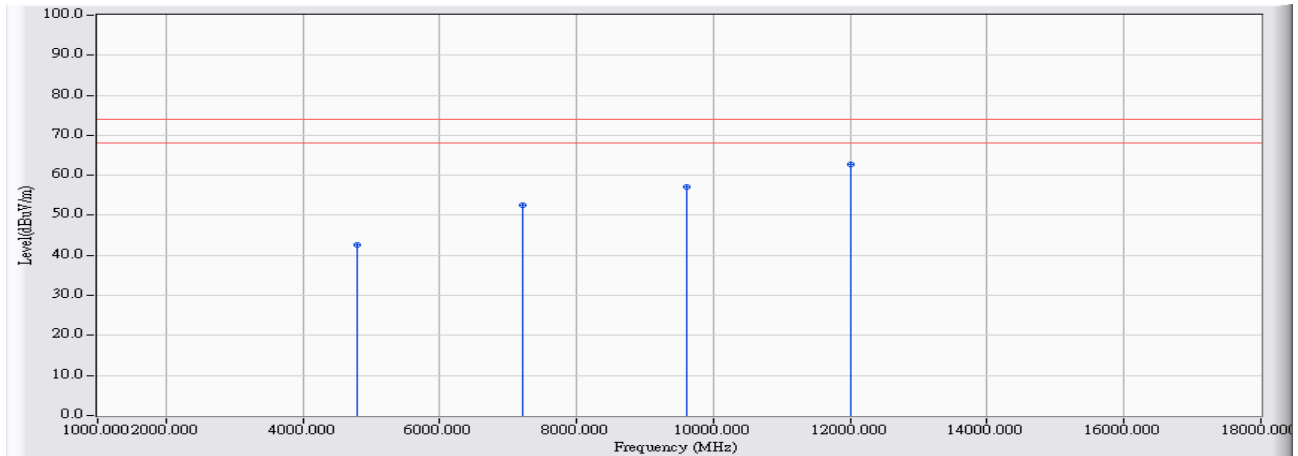


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		7205.000	16.156	20.880	37.036	-16.964	54.000	AVERAGE
2		9603.000	21.876	19.790	41.666	-12.334	54.000	AVERAGE
3	*	12011.000	26.452	21.030	47.483	-6.517	54.000	AVERAGE

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 13GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/05/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless-AC2600 Dual Band Gigabit Router	Note : Mode 1:TX_ADP: AD890326 802.15.1_BLE_2402MHz

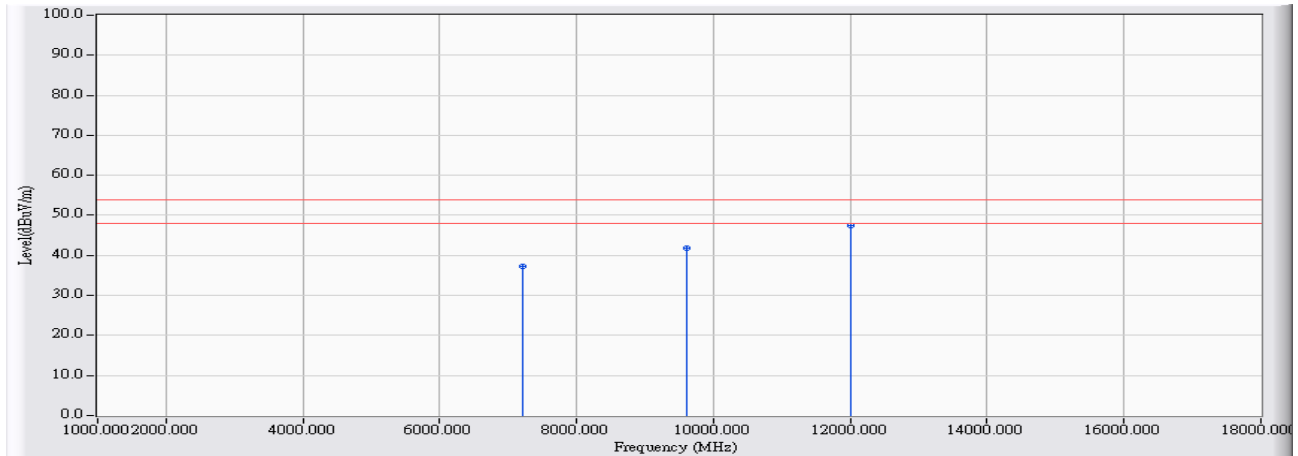


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4802.000	7.571	35.130	42.702	-31.298	74.000	PEAK
2	7202.000	16.140	36.450	52.591	-21.409	74.000	PEAK
3	9605.000	21.881	35.220	57.101	-16.899	74.000	PEAK
4	* 12008.000	26.455	36.190	62.645	-11.355	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 13GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/05/03
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless-AC2600 Dual Band Gigabit Router	Note : Mode 1:TX_AD P: AD890326 802.15.1_BLE_2402MHz

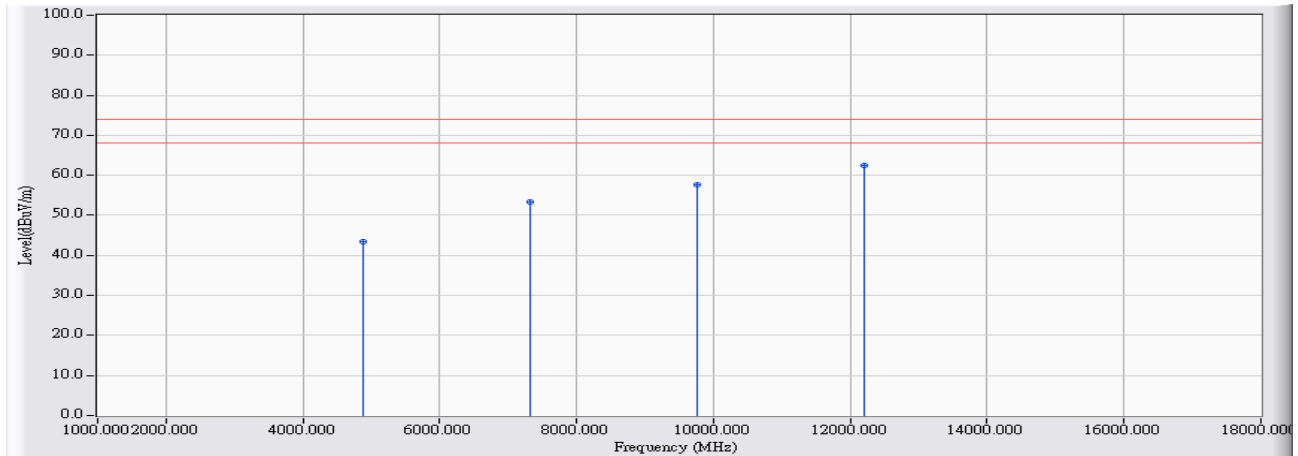


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		7210.000	16.181	20.970	37.152	-16.848	54.000	AVERAGE
2		9604.000	21.878	19.830	41.708	-12.292	54.000	AVERAGE
3	*	12013.000	26.451	21.010	47.461	-6.539	54.000	AVERAGE

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 13GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/05/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless-AC2600 Dual Band Gigabit Router	Note : Mode 1:TX_AD P: AD890326 802.15.1_BLE_2440MHz

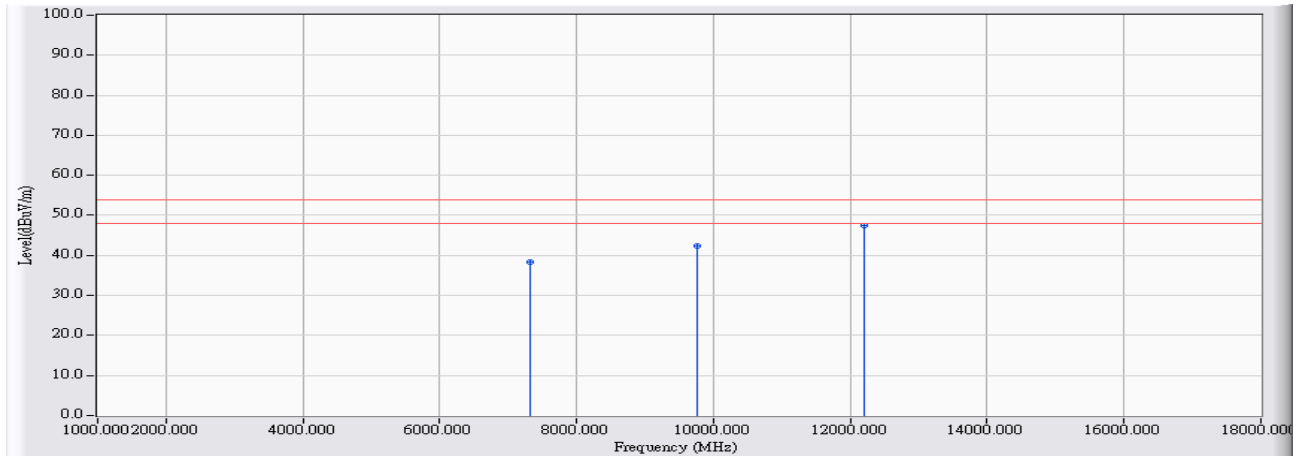


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4878.000	7.836	35.550	43.386	-30.614	74.000	PEAK
2	7320.000	16.716	36.600	53.315	-20.685	74.000	PEAK
3	9761.000	22.241	35.400	57.641	-16.359	74.000	PEAK
4	* 12198.000	26.303	36.190	62.493	-11.507	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 13GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/05/03
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless-AC2600 Dual Band Gigabit Router	Note : Mode 1:TX_AD P: AD890326 802.15.1_BLE_2440MHz

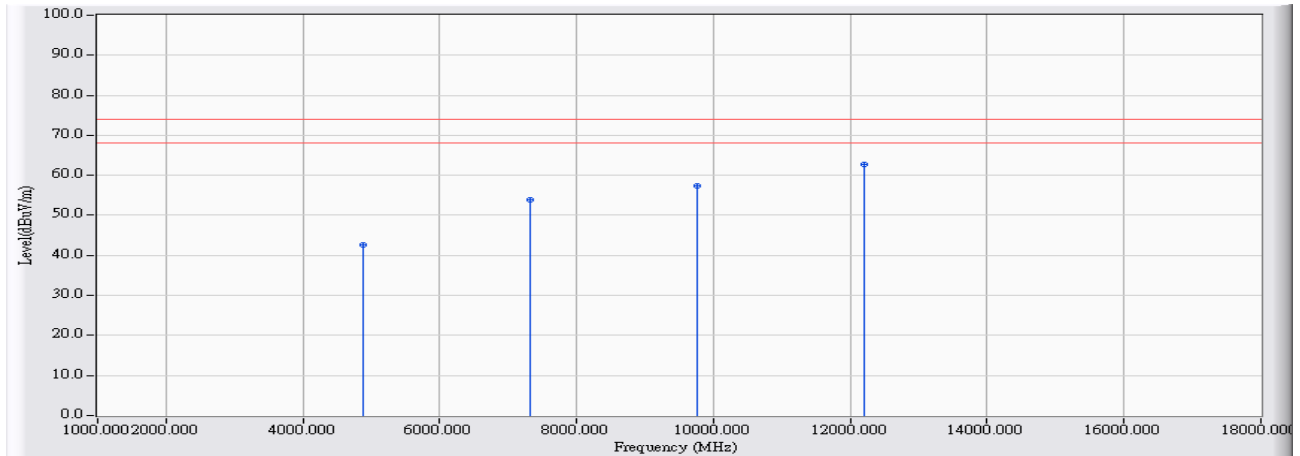


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	7322.000	16.725	21.690	38.415	-15.585	54.000	AVERAGE
2	9760.000	22.239	20.220	42.459	-11.541	54.000	AVERAGE
3	* 12196.000	26.304	21.050	47.354	-6.646	54.000	AVERAGE

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 13GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/05/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless-AC2600 Dual Band Gigabit Router	Note : Mode 1:TX_AD P: AD890326 802.15.1_BLE_2440MHz

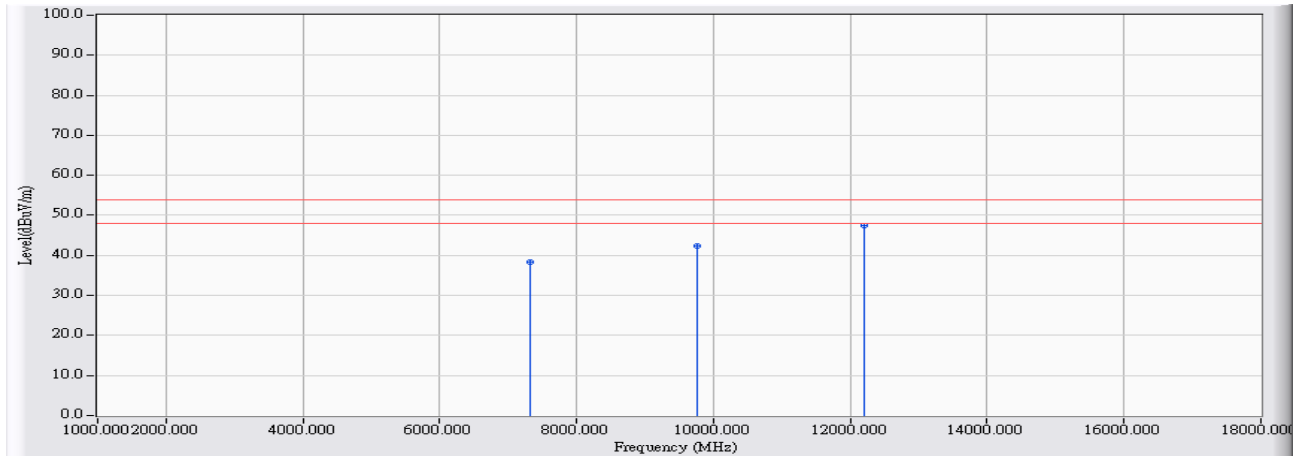


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4879.000	7.840	34.840	42.679	-31.321	74.000	PEAK
2	7323.000	16.729	37.140	53.869	-20.131	74.000	PEAK
3	9761.000	22.241	35.220	57.461	-16.539	74.000	PEAK
4	* 12204.000	26.298	36.510	62.808	-11.192	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 13GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/05/03
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless-AC2600 Dual Band Gigabit Router	Note : Mode 1:TX_AD P: AD890326 802.15.1_BLE_2440MHz

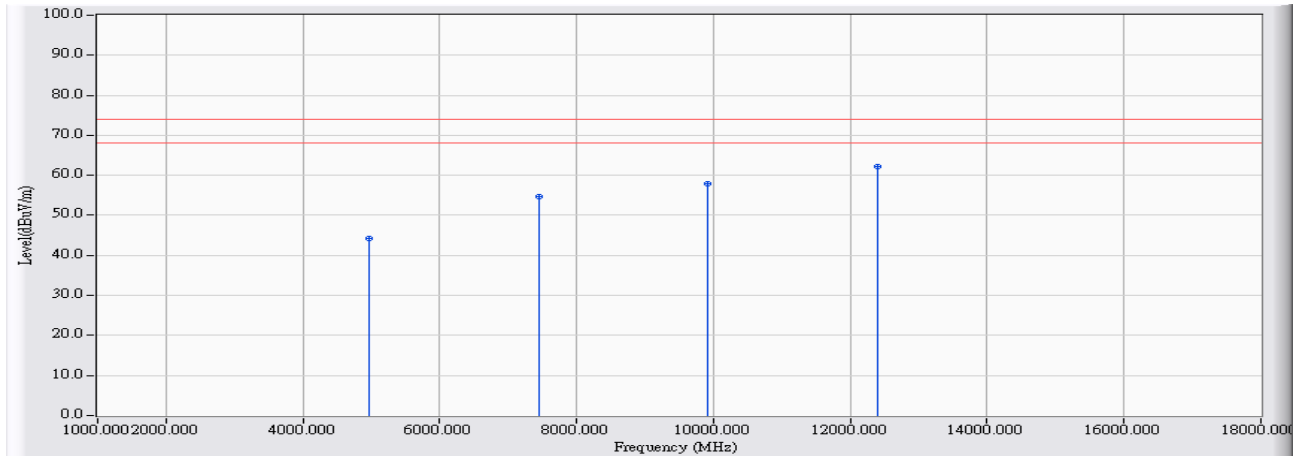


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		7324.000	16.735	21.690	38.424	-15.576	54.000	AVERAGE
2		9755.000	22.231	20.210	42.441	-11.559	54.000	AVERAGE
3	*	12204.000	26.298	21.030	47.328	-6.672	54.000	AVERAGE

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 13GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/05/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless-AC2600 Dual Band Gigabit Router	Note : Mode 1:TX_AD P: AD890326 802.15.1_BLE_2480MHz

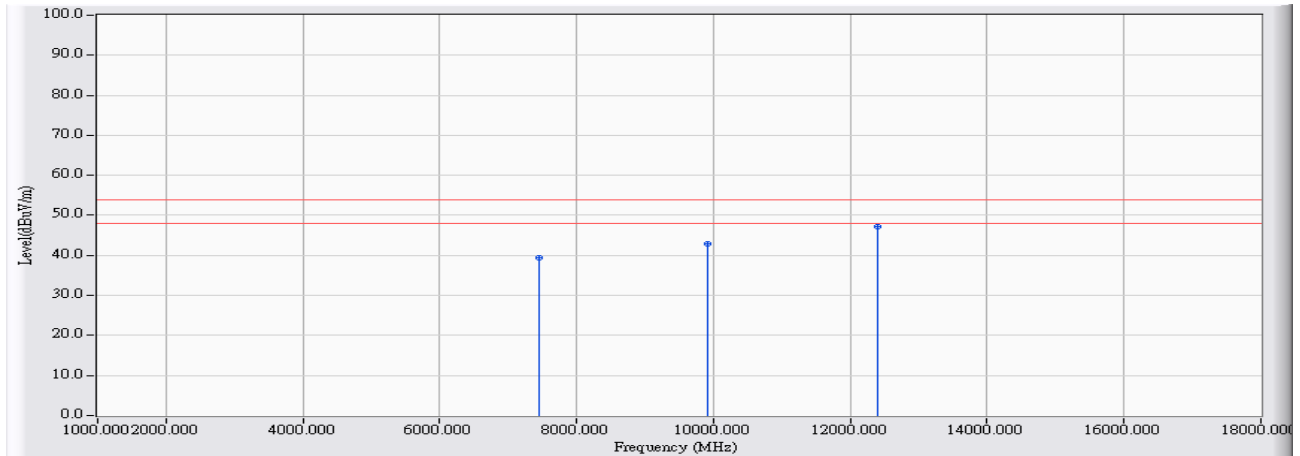


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4963.000	8.131	36.080	44.211	-29.789	74.000	PEAK
2	7444.000	17.297	37.320	54.616	-19.384	74.000	PEAK
3	9919.000	22.511	35.290	57.801	-16.199	74.000	PEAK
4	* 12403.000	26.147	36.170	62.318	-11.682	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 13GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/05/03
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless-AC2600 Dual Band Gigabit Router	Note : Mode 1:TX_AD P: AD890326 802.15.1_BLE_2480MHz

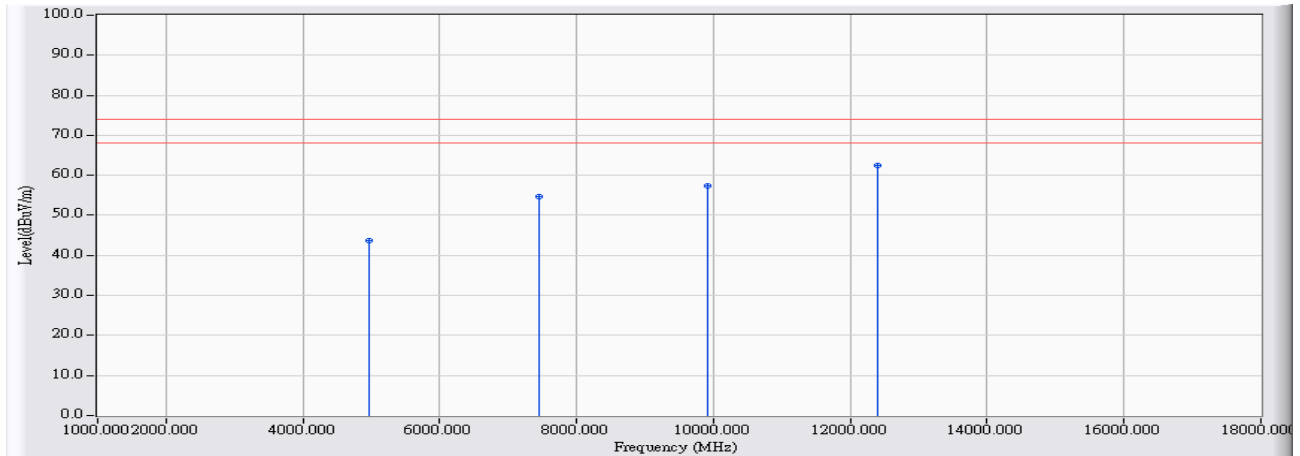


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		7444.000	17.297	22.150	39.446	-14.554	54.000	AVERAGE
2		9916.000	22.506	20.270	42.775	-11.225	54.000	AVERAGE
3	*	12409.000	26.143	20.920	47.063	-6.937	54.000	AVERAGE

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 13GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/05/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless-AC2600 Dual Band Gigabit Router	Note : Mode 1:TX_AD P: AD890326 802.15.1_BLE_2480MHz

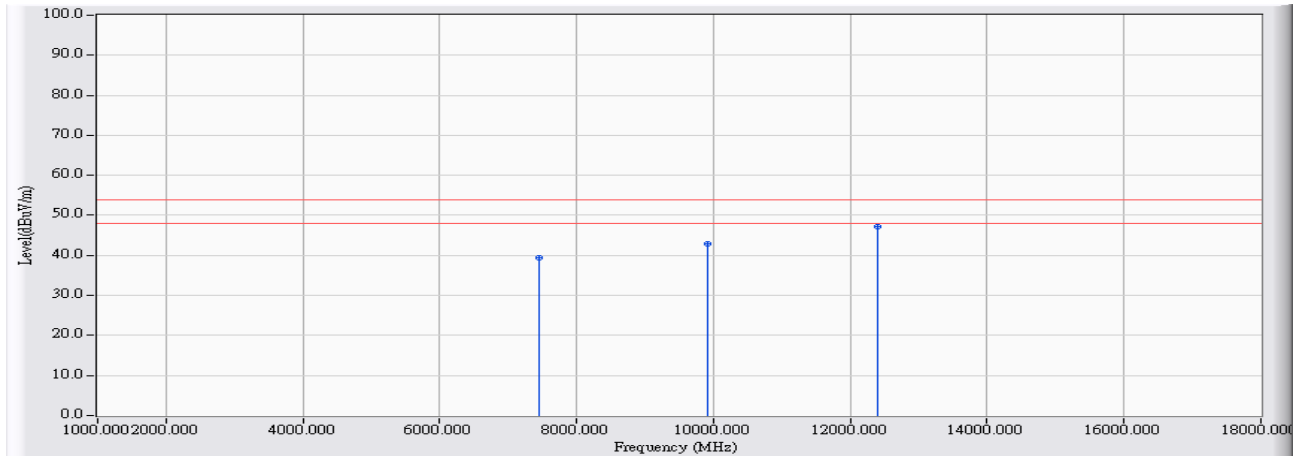


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4959.000	8.117	35.460	43.577	-30.423	74.000	PEAK
2	7443.000	17.292	37.390	54.682	-19.318	74.000	PEAK
3	9924.000	22.519	34.940	57.459	-16.541	74.000	PEAK
4	* 12395.000	26.154	36.440	62.593	-11.407	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 13GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/05/03
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless-AC2600 Dual Band Gigabit Router	Note : Mode 1:TX_AD P: AD890326 802.15.1_BLE_2480MHz



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	7444.000	17.297	22.120	39.416	-14.584	54.000	AVERAGE
2	9918.000	22.508	20.270	42.779	-11.221	54.000	AVERAGE
3	* 12404.000	26.147	20.970	47.117	-6.883	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 13GHz were not included is because their levels are too low.

5. RF antenna conducted test

5.1. Test Equipment

The following test equipment is used during the test:

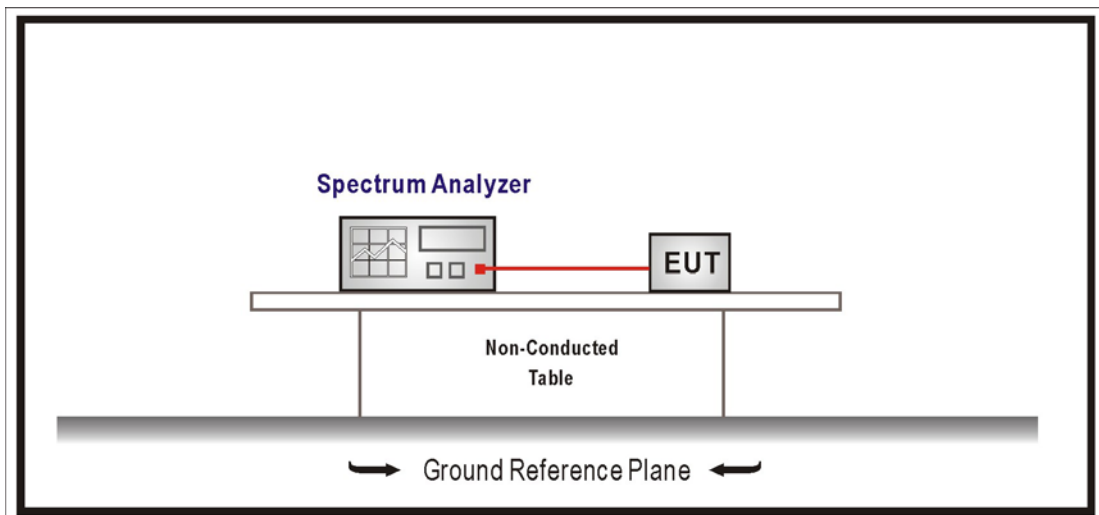
RF antenna conducted test / SR10-H

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/01/22

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

5.2. Test Setup

RF 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 of KDB558074 V03R02 for compliance to FCC 47CFR 15.247 requirements. Set RBW = 100 kHz, Set VBW > RBW, scan up through 10th harmonic.

5.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247

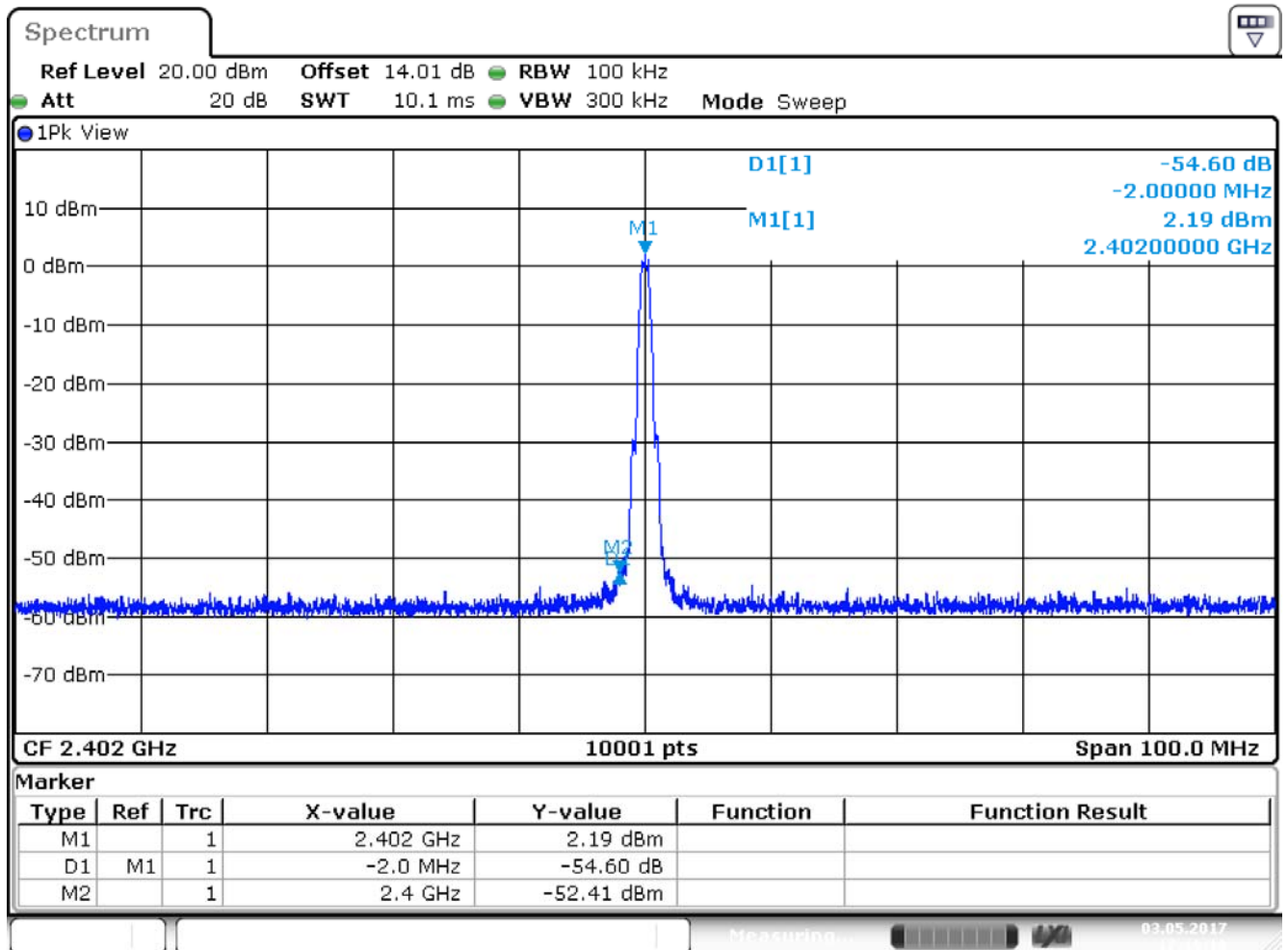
5.6. Test Result

Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1:TX_ADP: AD890326		
Date of Test	2017/05/03	Test Site	SR10-H

GFSK

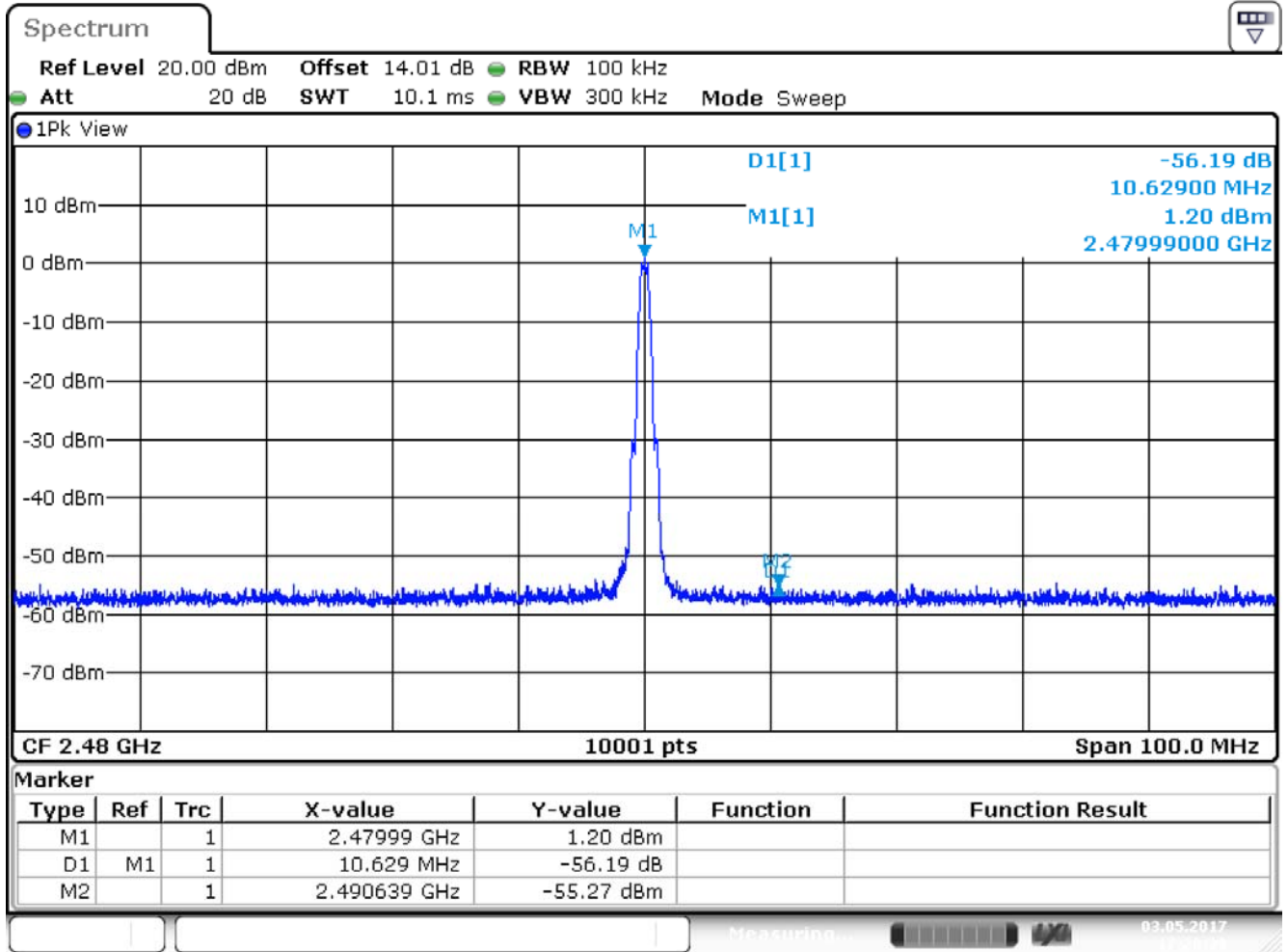
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
00	2402	54.600	≥ 20	Pass
39	2480	56.190	≥ 20	Pass

Channel 00



Date: 3.MAY.2017 17:19:18

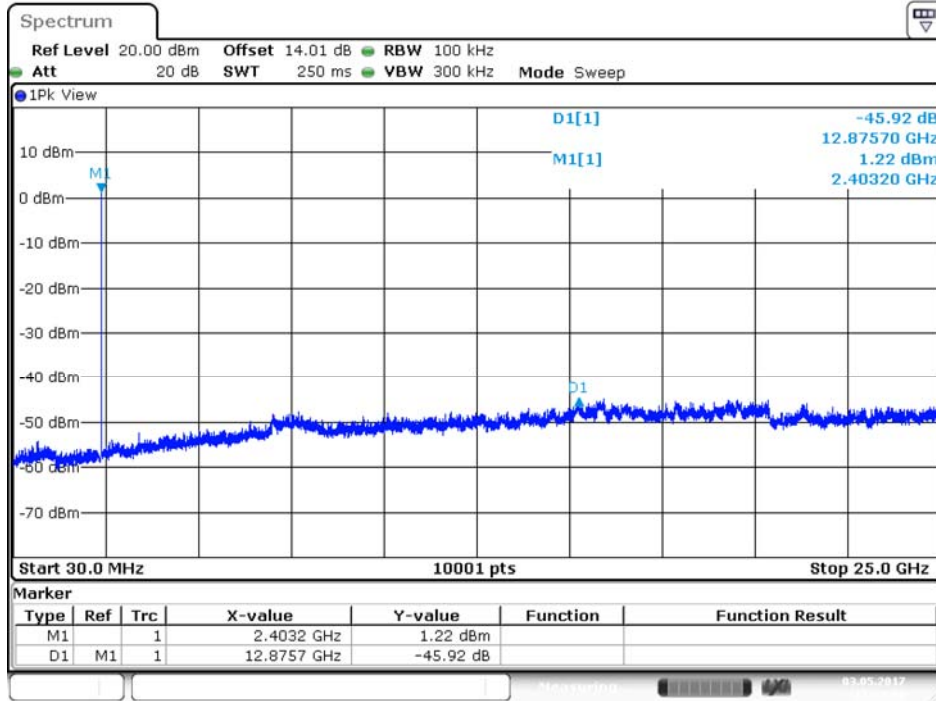
Channel 39



Date: 3.MAY.2017 17:20:39

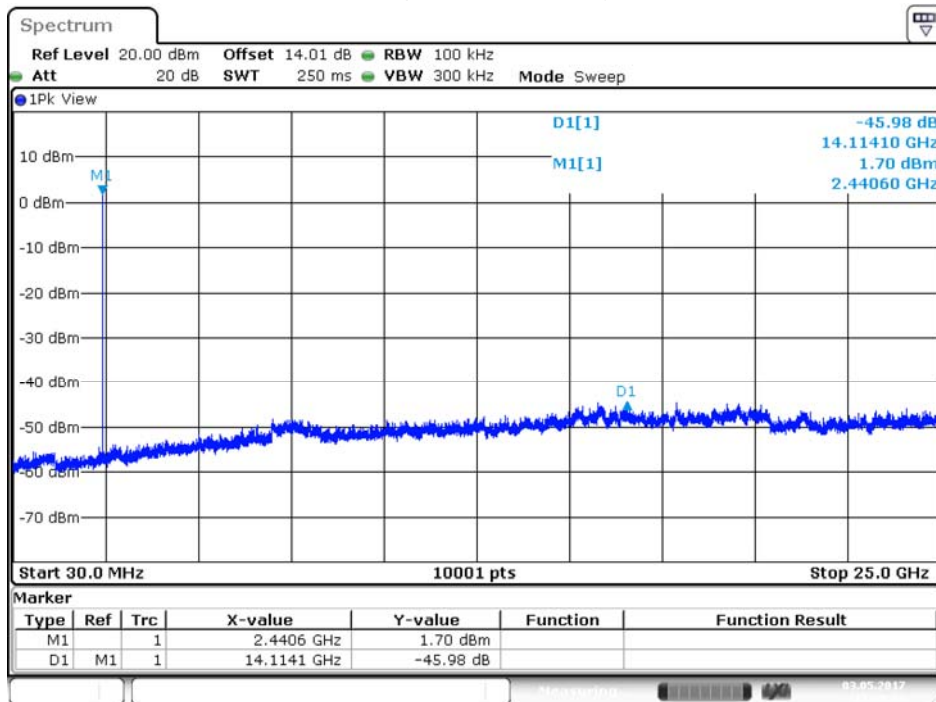
Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1:TX_ADP: AD890326		
Date of Test	2017/05/03	Test Site	SR10-H

Channel 00 (30MHz-25GHz)- GFSK



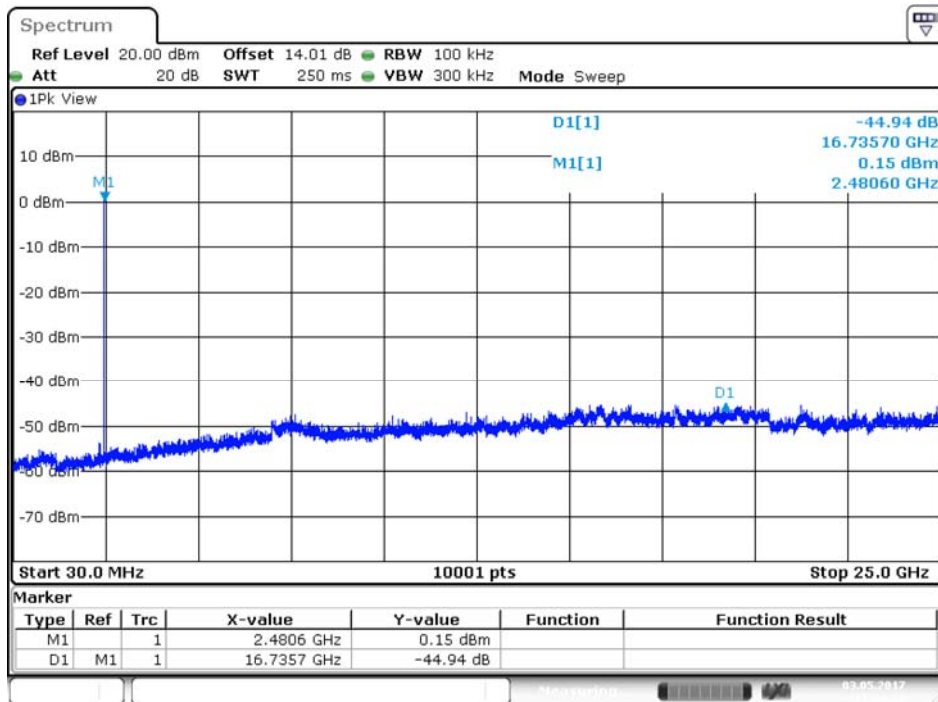
Date: 3.MAY.2017 17:18:00

Channel 19 (30MHz-25GHz)- GFSK



Date: 3.MAY.2017 17:16:04

Channel 39 (30MHz-25GHz)- GFSK



Date: 3.MAY.2017 17:14:29

6. Band Edge

6.1. Test Equipment

The following test equipment are used during the test:

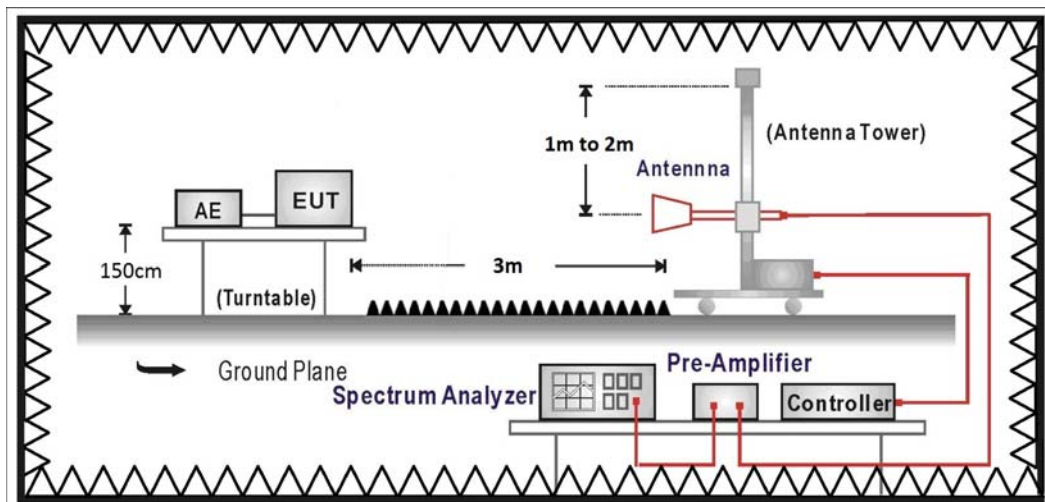
Band Edge / CB4-H

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum	Agilent	E4440A	MY46187335	2017/12/21
Bilog Antenna	Teseq	CBL6112D	23191	2017/07/04
Horn Antenna	Schwarzbeck	BBHA 9120 D	1640	2017/10/23
Pre-Amplifier	EMCI	EMC01820I	12143782	2018/03/08
Pre-Amplifier	EMCI	EMC01820I	980367	2018/02/09

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

6.2. Test Setup

RF Radiated Measurement:



6.3. 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.

6.4. Test Procedure

The EUT was setup according to ANSI C63.10:2013 and tested according to DTS test procedure of KDB558074 V03R02 for compliance to FCC 47CFR 15.247 requirements. The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

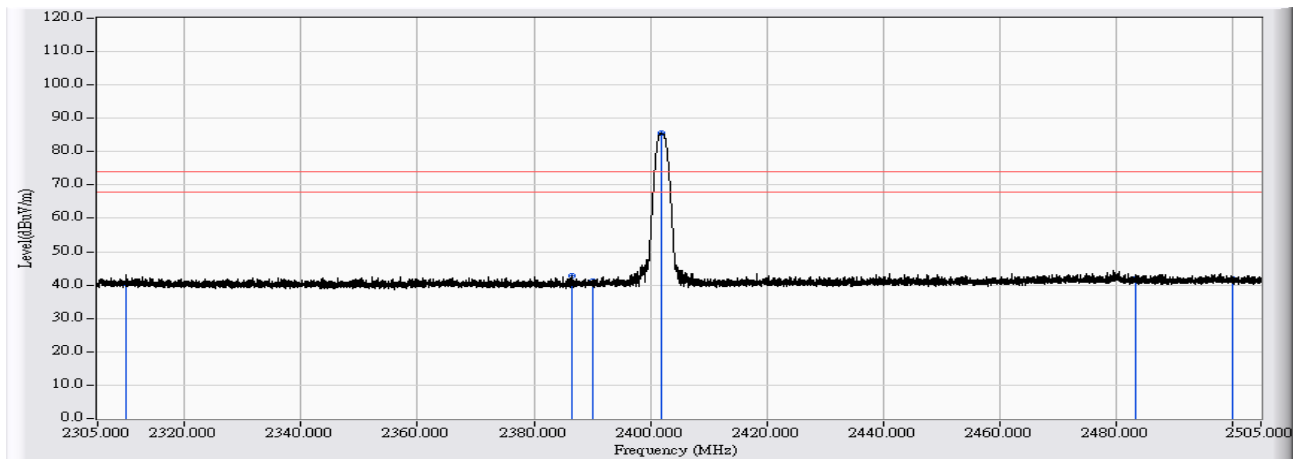
Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10:2013 on radiated measurement.

6.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247

6.6. Test Result

Site : CB4-H	Time : 2017/05/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless-AC2600 Dual Band Gigabit Router	Note : Mode 1:TX_ADP: AD890326 802.15.1_BLE_2402MHz

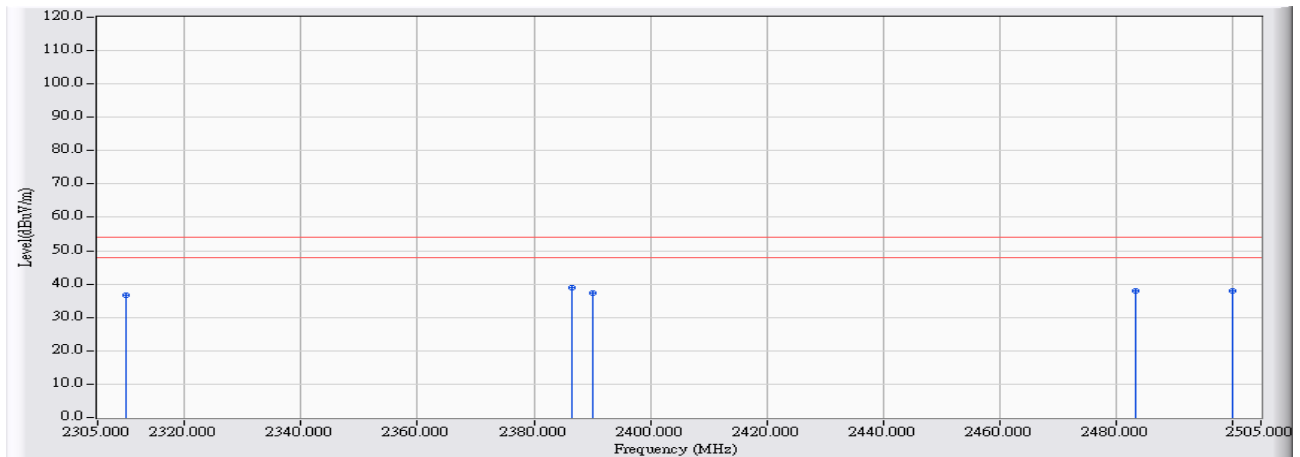


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	9.887	30.518	40.405	-33.595	74.000	PEAK
2	2386.520	10.164	32.498	42.661	-31.339	74.000	PEAK
3	2390.000	10.146	30.928	41.074	-32.926	74.000	PEAK
4	* 2401.840	10.097	75.320	85.418	11.418	74.000	PEAK
5	2483.500	10.634	31.137	41.771	-32.229	74.000	PEAK
6	2500.000	10.544	31.194	41.738	-32.262	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : CB4-H	Time : 2017/05/03
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless-AC2600 Dual Band Gigabit Router	Note : Mode 1:TX_AD P: AD890326 802.15.1_BLE_2402MHz

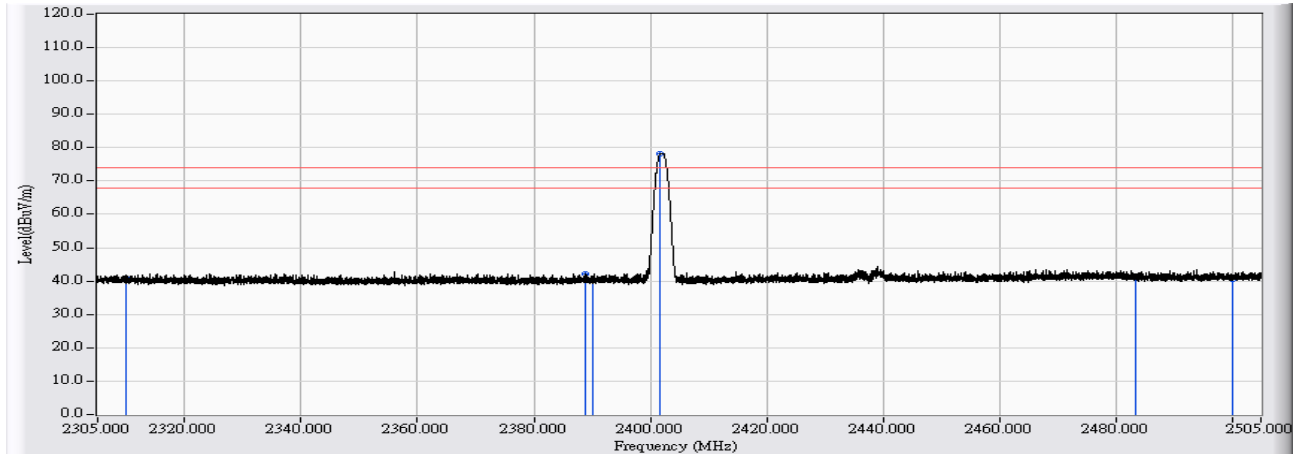


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	9.887	26.781	36.668	-17.332	54.000	AVERAGE
2	* 2386.520	10.164	28.761	38.924	-15.076	54.000	AVERAGE
3	2390.000	10.146	27.191	37.337	-16.663	54.000	AVERAGE
4	2483.500	10.634	27.400	38.034	-15.966	54.000	AVERAGE
5	2500.000	10.544	27.457	38.001	-15.999	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : CB4-H	Time : 2017/05/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless-AC2600 Dual Band Gigabit Router	Note : Mode 1:TX_AD P: AD890326 802.15.1_BLE_2402MHz

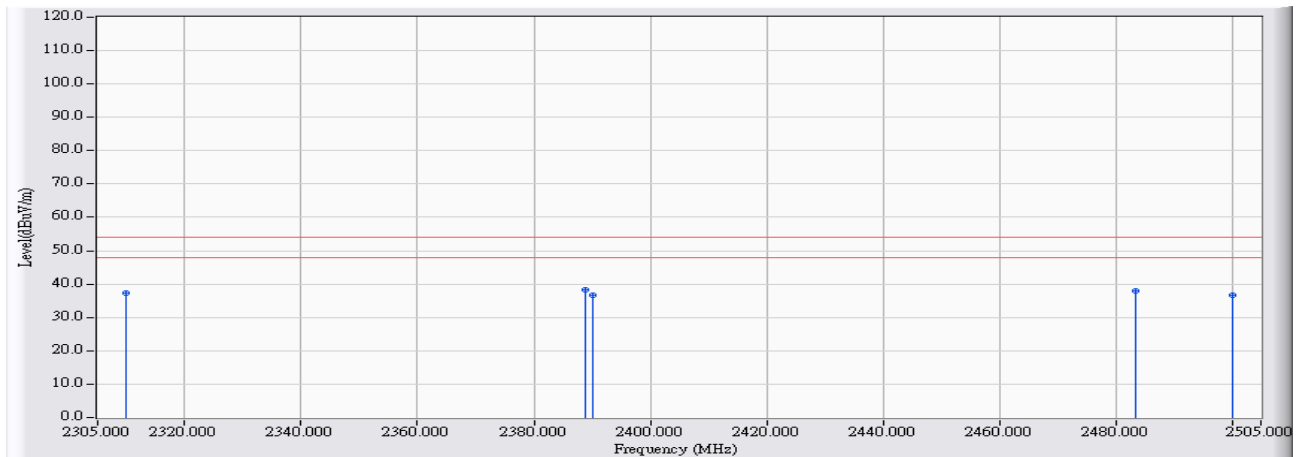


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	9.887	31.074	40.961	-33.039	74.000	PEAK
2	2388.740	10.152	31.868	42.020	-31.980	74.000	PEAK
3	2390.000	10.146	30.184	40.330	-33.670	74.000	PEAK
4	* 2401.740	10.097	68.080	78.178	4.178	74.000	PEAK
5	2483.500	10.634	31.021	41.655	-32.345	74.000	PEAK
6	2500.000	10.544	30.018	40.562	-33.438	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. If the readings given are average, peak measurement should also be supplied.

Site : CB4-H	Time : 2017/05/03
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless-AC2600 Dual Band Gigabit Router	Note : Mode 1:TX_AD P: AD890326 802.15.1_BLE_2402MHz

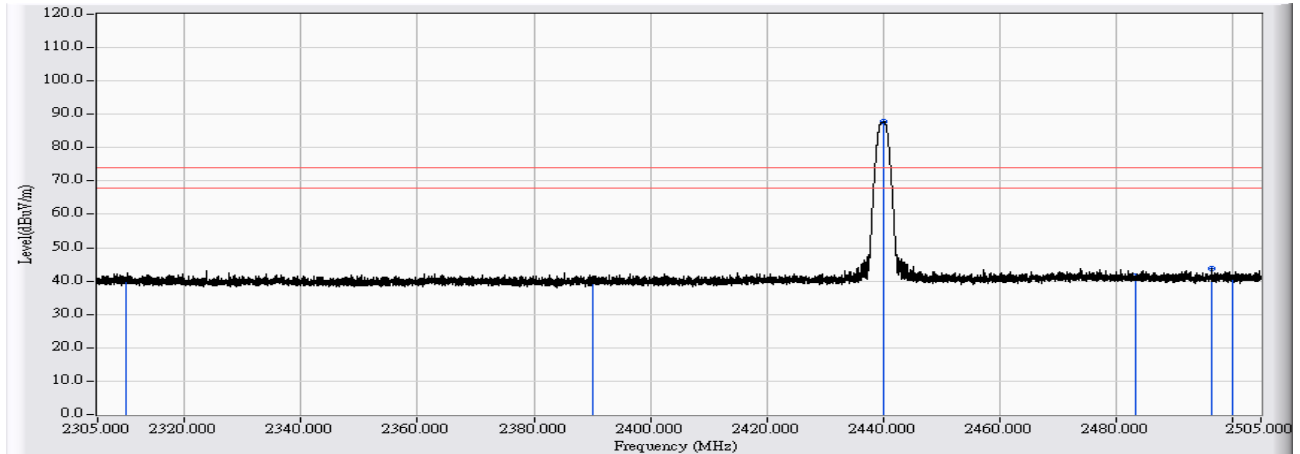


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	9.887	27.337	37.224	-16.776	54.000	AVERAGE
2	* 2388.740	10.152	28.131	38.283	-15.717	54.000	AVERAGE
3	2390.000	10.146	26.447	36.593	-17.407	54.000	AVERAGE
4	2483.500	10.634	27.284	37.918	-16.082	54.000	AVERAGE
5	2500.000	10.544	26.281	36.825	-17.175	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. If the readings given are average, peak measurement should also be supplied.

Site : CB4-H	Time : 2017/05/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless-AC2600 Dual Band Gigabit Router	Note : Mode 1:TX_AD P: AD890326 802.15.1_BLE_2440MHz

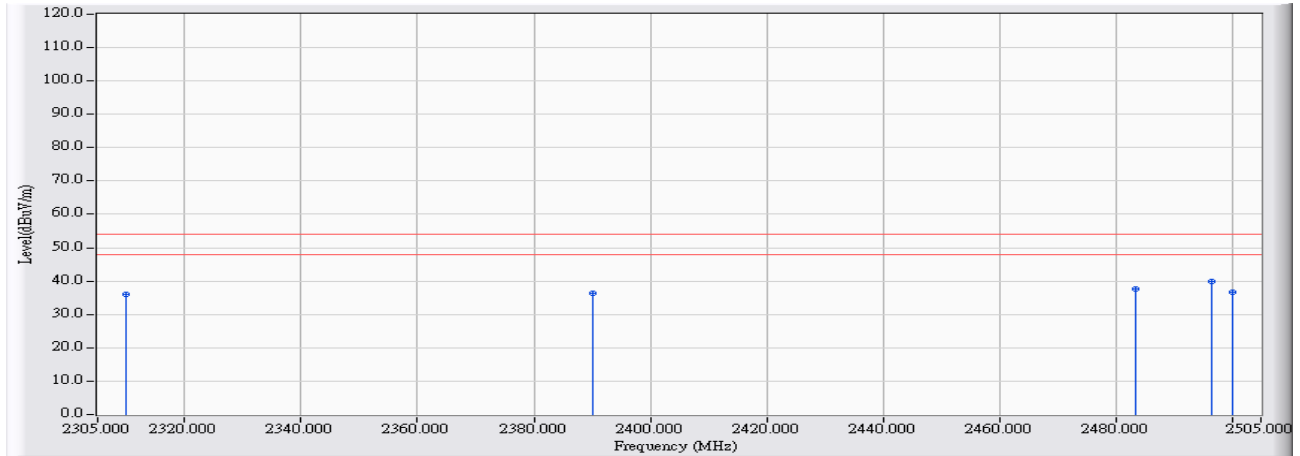


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	9.887	30.037	39.924	-34.076	74.000	PEAK
2	2390.000	10.146	29.942	40.088	-33.912	74.000	PEAK
3	* 2440.200	10.221	77.530	87.751	13.751	74.000	PEAK
4	2483.500	10.634	30.842	41.476	-32.524	74.000	PEAK
5	2496.440	10.561	33.225	43.787	-30.213	74.000	PEAK
6	2500.000	10.544	29.890	40.434	-33.566	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. If the readings given are average, peak measurement should also be supplied.

Site : CB4-H	Time : 2017/05/03
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless-AC2600 Dual Band Gigabit Router	Note : Mode 1:TX_AD P: AD890326 802.15.1_BLE_2440MHz

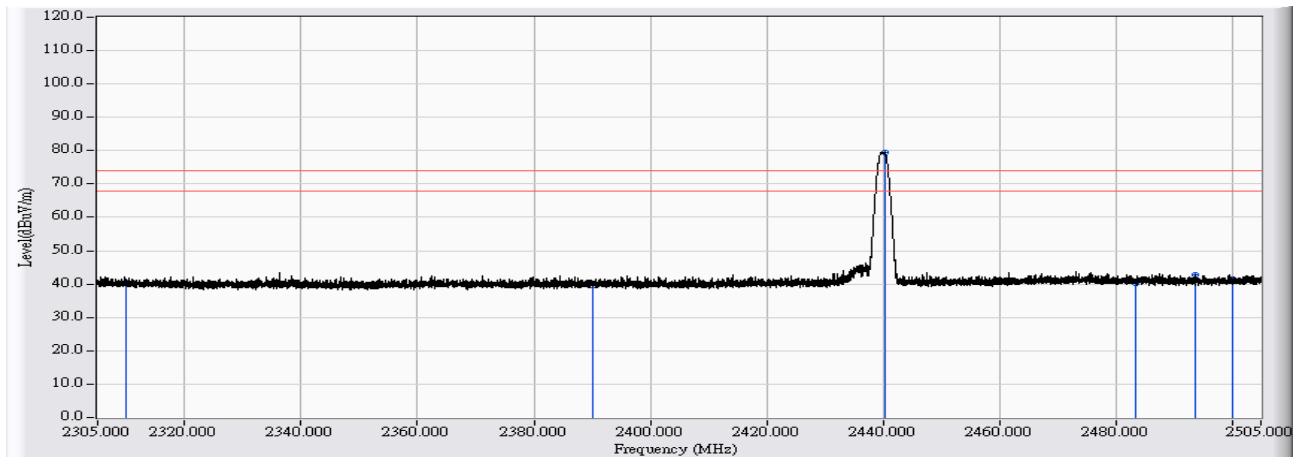


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	9.887	26.300	36.187	-17.813	54.000	AVERAGE
2	2390.000	10.146	26.205	36.351	-17.649	54.000	AVERAGE
3	2483.500	10.634	27.105	37.739	-16.261	54.000	AVERAGE
4	* 2496.440	10.561	29.488	40.050	-13.950	54.000	AVERAGE
5	2500.000	10.544	26.153	36.697	-17.303	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. If the readings given are average, peak measurement should also be supplied.

Site : CB4-H	Time : 2017/05/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless-AC2600 Dual Band Gigabit Router	Note : Mode 1:TX_AD P: AD890326 802.15.1_BLE_2440MHz

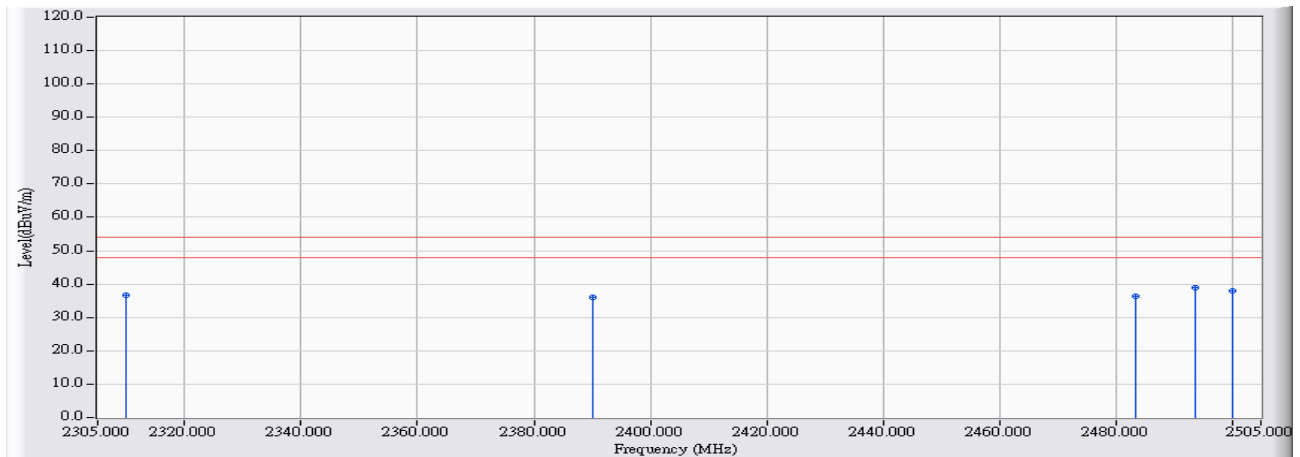


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	9.887	30.543	40.430	-33.570	74.000	PEAK
2	2390.000	10.146	29.534	39.680	-34.320	74.000	PEAK
3	* 2440.260	10.222	69.211	79.432	5.432	74.000	PEAK
4	2483.500	10.634	29.537	40.171	-33.829	74.000	PEAK
5	2493.680	10.575	32.191	42.766	-31.234	74.000	PEAK
6	2500.000	10.544	31.027	41.571	-32.429	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. If the readings given are average, peak measurement should also be supplied.

Site : CB4-H	Time : 2017/05/03
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless-AC2600 Dual Band Gigabit Router	Note : Mode 1:TX_AD P: AD890326 802.15.1_BLE_2440MHz

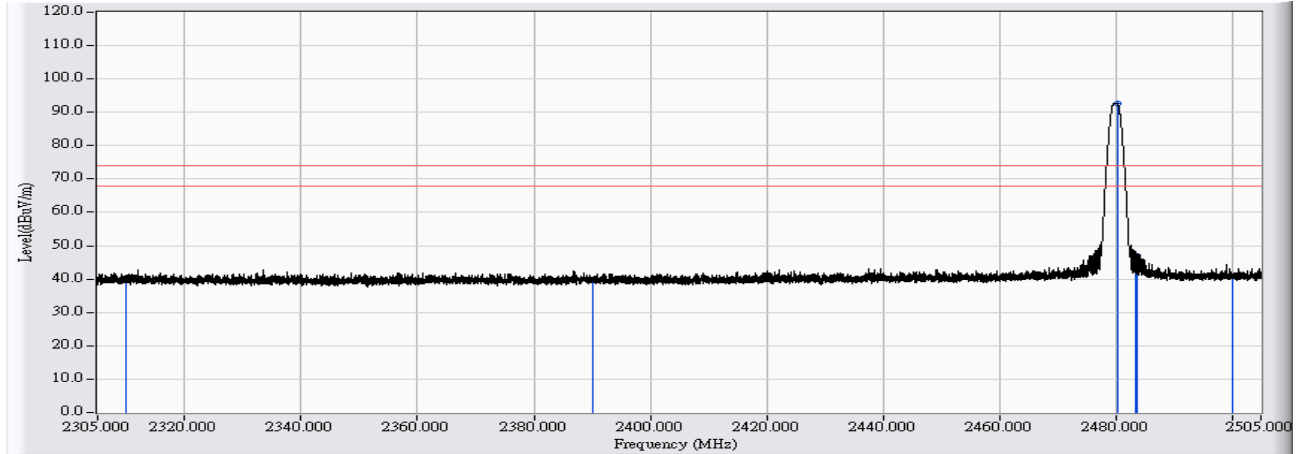


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	9.887	26.806	36.693	-17.307	54.000	AVERAGE
2	2390.000	10.146	25.797	35.943	-18.057	54.000	AVERAGE
3	2483.500	10.634	25.800	36.434	-17.566	54.000	AVERAGE
4	* 2493.680	10.575	28.454	39.029	-14.971	54.000	AVERAGE
5	2500.000	10.544	27.290	37.834	-16.166	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. If the readings given are average, peak measurement should also be supplied.

Site : CB4-H	Time : 2017/05/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless-AC2600 Dual Band Gigabit Router	Note : Mode 1:TX_AD P: AD890326 802.15.1_BLE_2480MHz

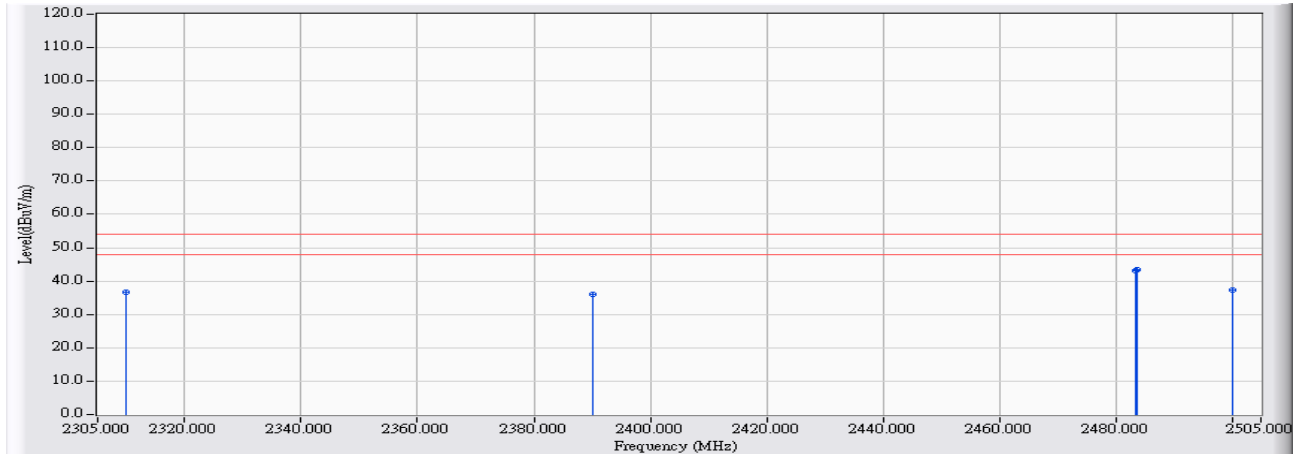


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	9.887	30.450	40.337	-33.663	74.000	PEAK
2	2390.000	10.146	29.722	39.868	-34.132	74.000	PEAK
3	* 2480.260	10.659	82.114	92.773	18.773	74.000	PEAK
4	2483.500	10.634	36.291	46.925	-27.075	74.000	PEAK
5	2483.820	10.631	36.468	47.100	-6.900	54.000	PEAK
6	2500.000	10.544	30.354	40.898	-33.102	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. If the readings given are average, peak measurement should also be supplied.

Site : CB4-H	Time : 2017/05/03
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless-AC2600 Dual Band Gigabit Router	Note : Mode 1:TX_AD P: AD890326 802.15.1_BLE_2480MHz

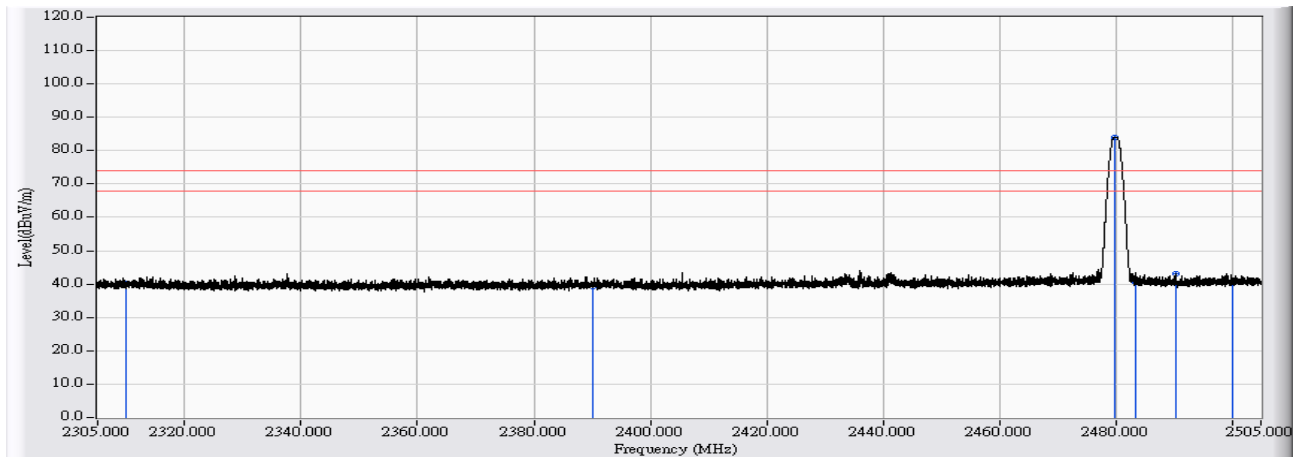


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	9.887	26.713	36.600	-17.400	54.000	AVERAGE
2	2390.000	10.146	25.985	36.131	-17.869	54.000	AVERAGE
3	2483.500	10.634	32.554	43.188	-10.812	54.000	AVERAGE
4	* 2483.820	10.631	32.731	43.363	-10.637	54.000	AVERAGE
5	2500.000	10.544	26.617	37.161	-16.839	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. If the readings given are average, peak measurement should also be supplied.

Site : CB4-H	Time : 2017/05/03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless-AC2600 Dual Band Gigabit Router	Note : Mode 1:TX_ADP: AD890326 802.15.1_BLE_2480MHz

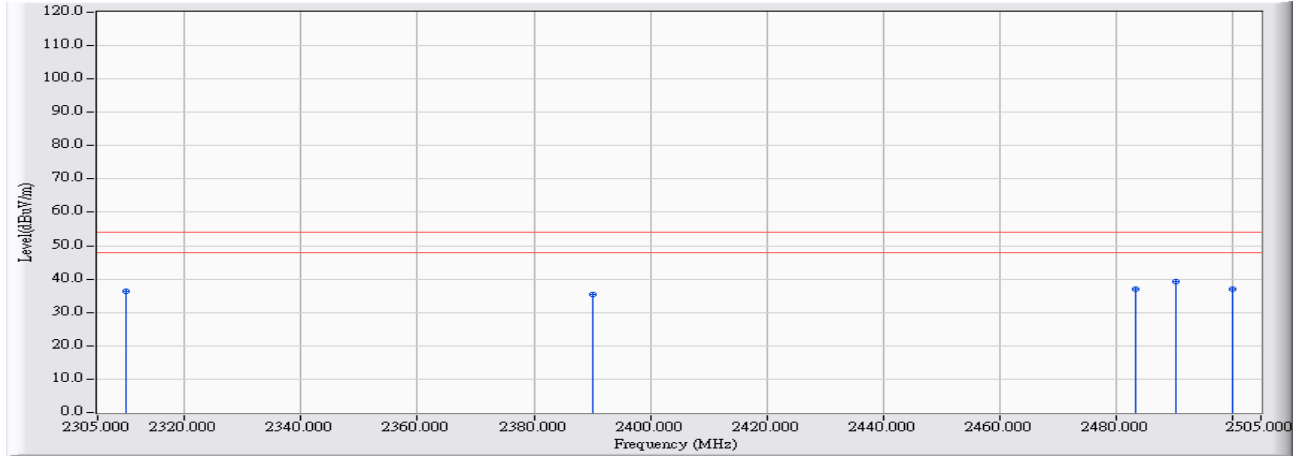


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	9.887	30.364	40.251	-33.749	74.000	PEAK
2	2390.000	10.146	29.038	39.184	-34.816	74.000	PEAK
3	* 2479.760	10.662	73.397	84.059	10.059	74.000	PEAK
4	2483.500	10.634	29.987	40.621	-33.379	74.000	PEAK
5	2490.260	10.592	32.453	43.045	-30.955	74.000	PEAK
6	2500.000	10.544	30.103	40.647	-33.353	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. If the readings given are average, peak measurement should also be supplied.

Site : CB4-H	Time : 2017/05/03
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless-AC2600 Dual Band Gigabit Router	Note : Mode 1:TX_AD P: AD890326 802.15.1_BLE_2480MHz



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	9.887	26.627	36.514	-17.486	54.000	AVERAGE
2	2390.000	10.146	25.301	35.447	-18.553	54.000	AVERAGE
3	2483.500	10.634	26.250	36.884	-17.116	54.000	AVERAGE
4	* 2490.260	10.592	28.716	39.308	-14.692	54.000	AVERAGE
5	2500.000	10.544	26.366	36.910	-17.090	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. If the readings given are average, peak measurement should also be supplied.

7. Occupied Bandwidth & DTS Bandwidth

7.1. Test Equipment

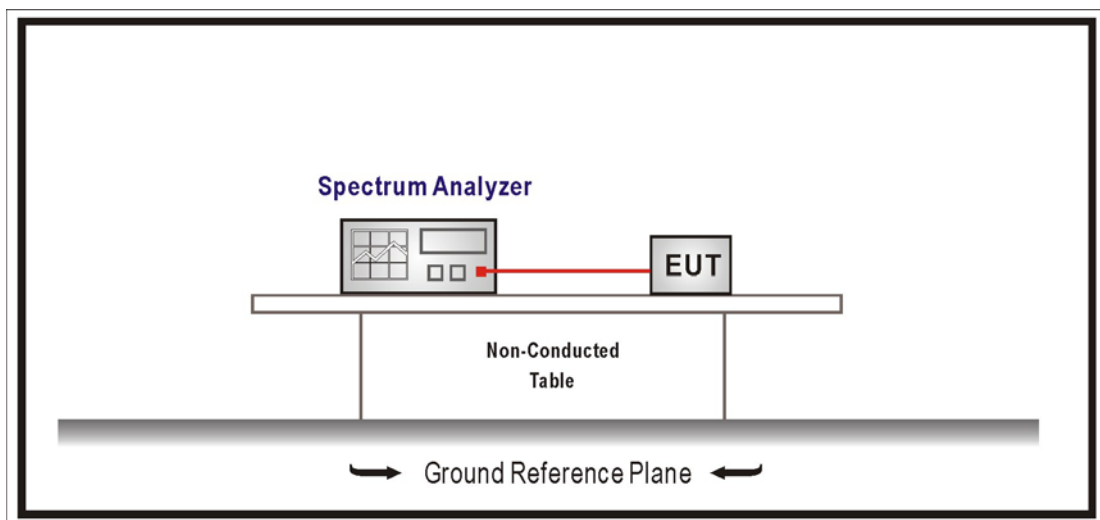
The following test equipment is used during the test:

Occupied Bandwidth & / DTS Bandwidth SR10-H

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/01/22

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

7.2. Test Setup



7.3. Limits

The 6 dB bandwidth must be greater than 500 kHz.

7.4. Test Procedures

The EUT was setup according to ANSI C63.10:2013; tested according to DTS test procedure of KDB558074 V03R02 for compliance to FCC 47CFR 15.247 requirements. Set RBW = 1% of EBW, Span greater than RBW.

7.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247

7.6. Test Result

Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	DTS Bandwidth		
Test Mode	Mode 1:TX_AD P: AD890326		
Date of Test	2017/05/03	Test Site	SR10-H

GFSK

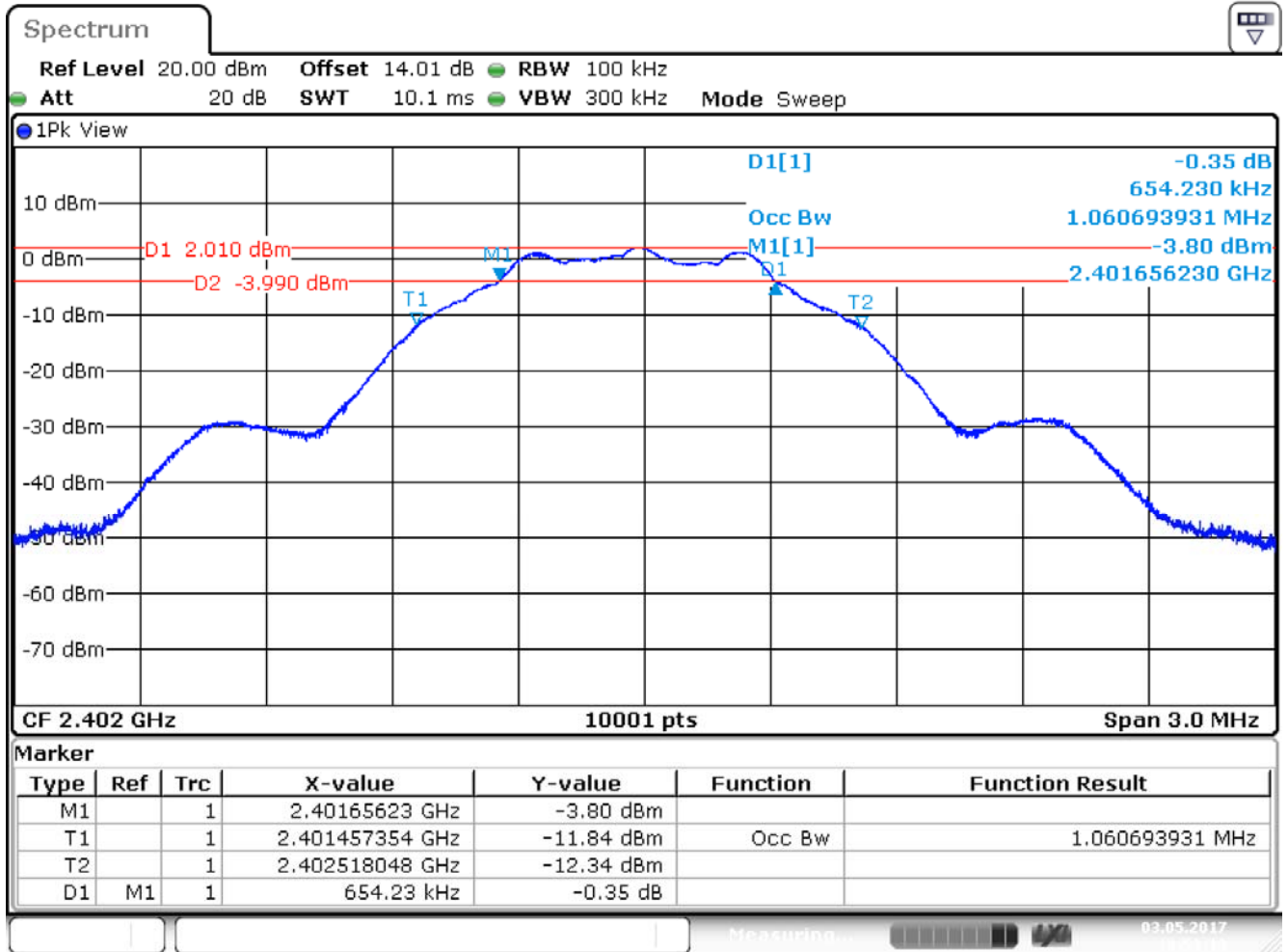
Channel No.	Frequency (MHz)	Measure Level (KHz)	Limit (KHz)	Result
00	2402	654	≥ 500	Pass
19	2440	658	≥ 500	Pass
39	2480	653	≥ 500	Pass

Test Item	Occupied Bandwidth		
Test Mode	Mode 1:TX_AD P: AD890326		
Date of Test	2017/05/03	Test Site	SR10-H

GFSK

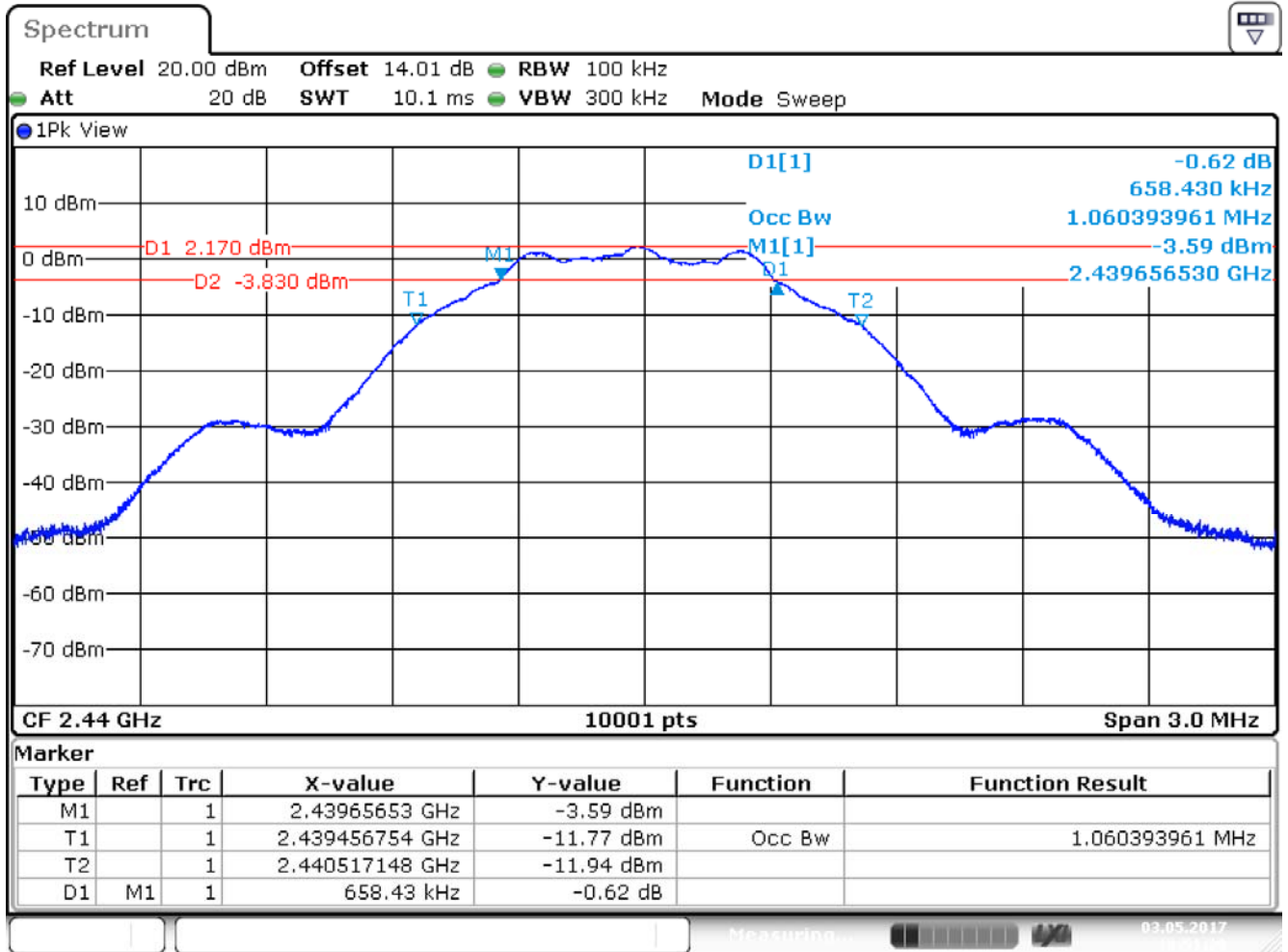
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
00	2402	1.060	--	Pass
19	2440	1.060	--	Pass
39	2480	1.060	--	Pass

Channel 00



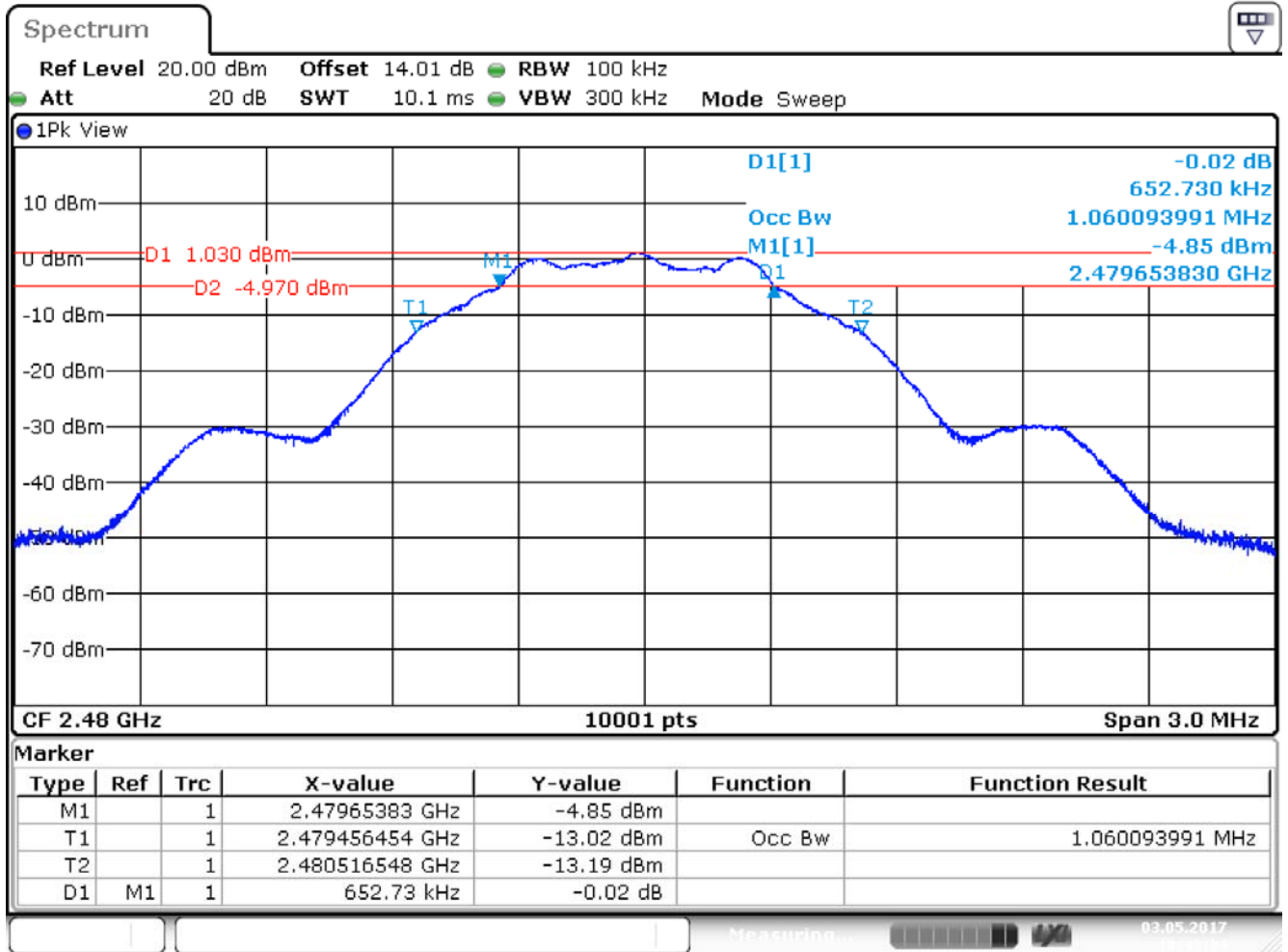
Date: 3.MAY.2017 16:53:13

Channel 19



Date: 3.MAY.2017 16:51:29

Channel 39



Date: 3.MAY.2017 16:49:34

8. Power Density

8.1. Test Equipment

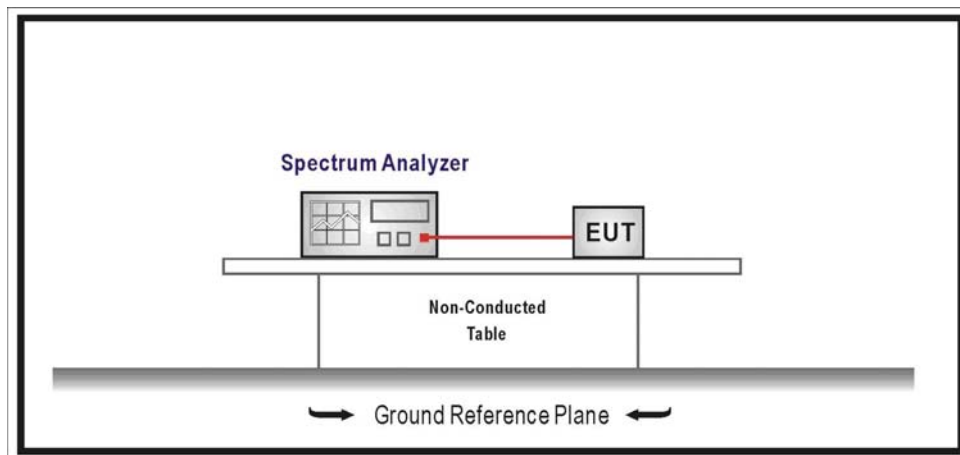
The following test equipment is used during the test:

Power Density / SR10-H

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/01/22

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

8.2. Test Setup



8.3. Limits

The peak power spectral density conducted from the intentional radiated to the antenna shall not be greater than +8dBm in any 3kHz band during any time interval of continuous transmission.

8.4. Test Procedures

The EUT was setup according to ANSI C63.10:2013; tested according to DTS test procedure of KDB558074 V03R02 for compliance to FCC 47CFR 15.247 requirements.

8.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247

8.6. Uncertainty

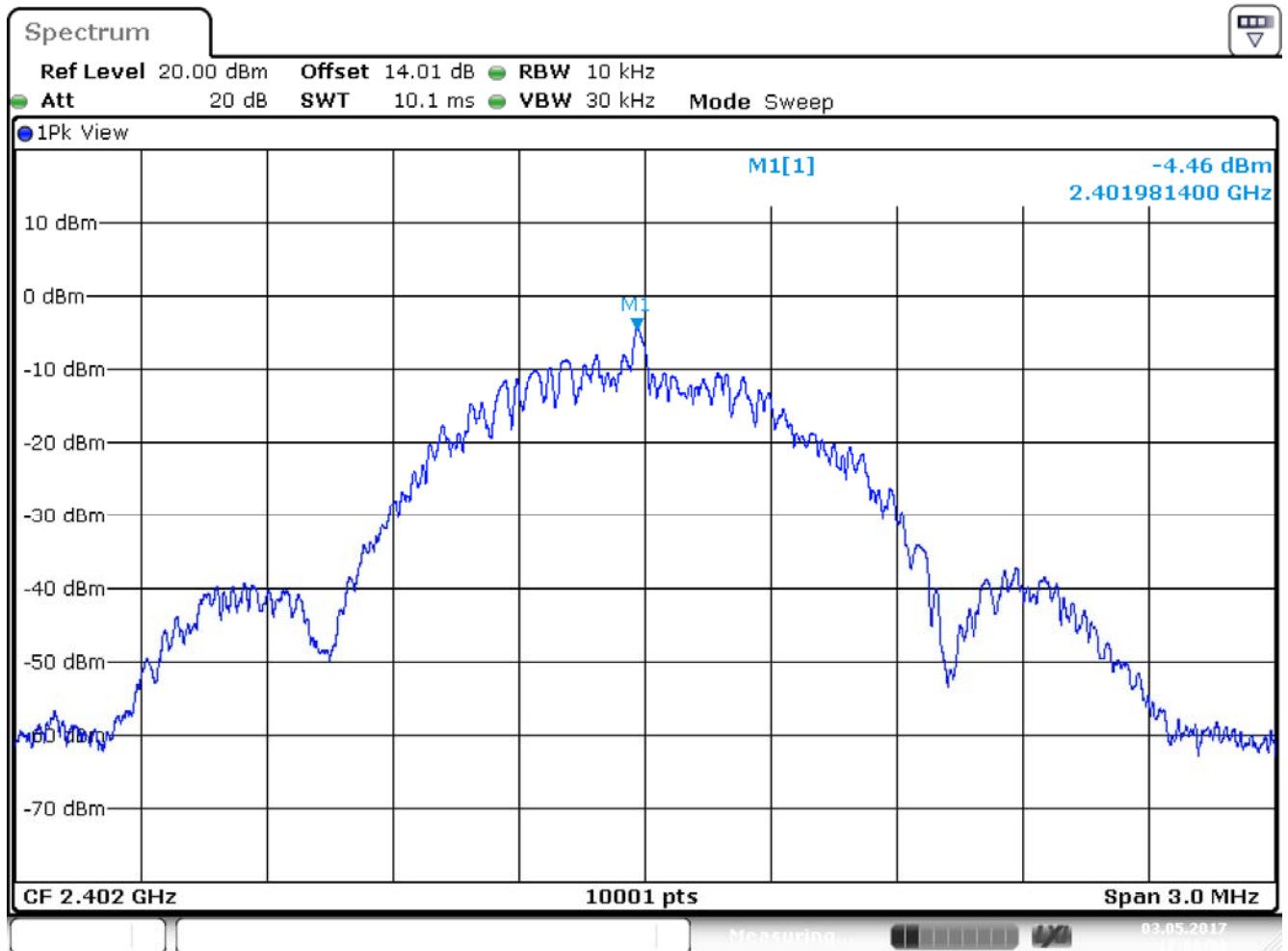
The measurement uncertainty is defined as ± 1.27 dB.

8.7. Test Result

Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 1:TX_AD P: AD890326		
Date of Test	2017/05/03	Test Site	SR7

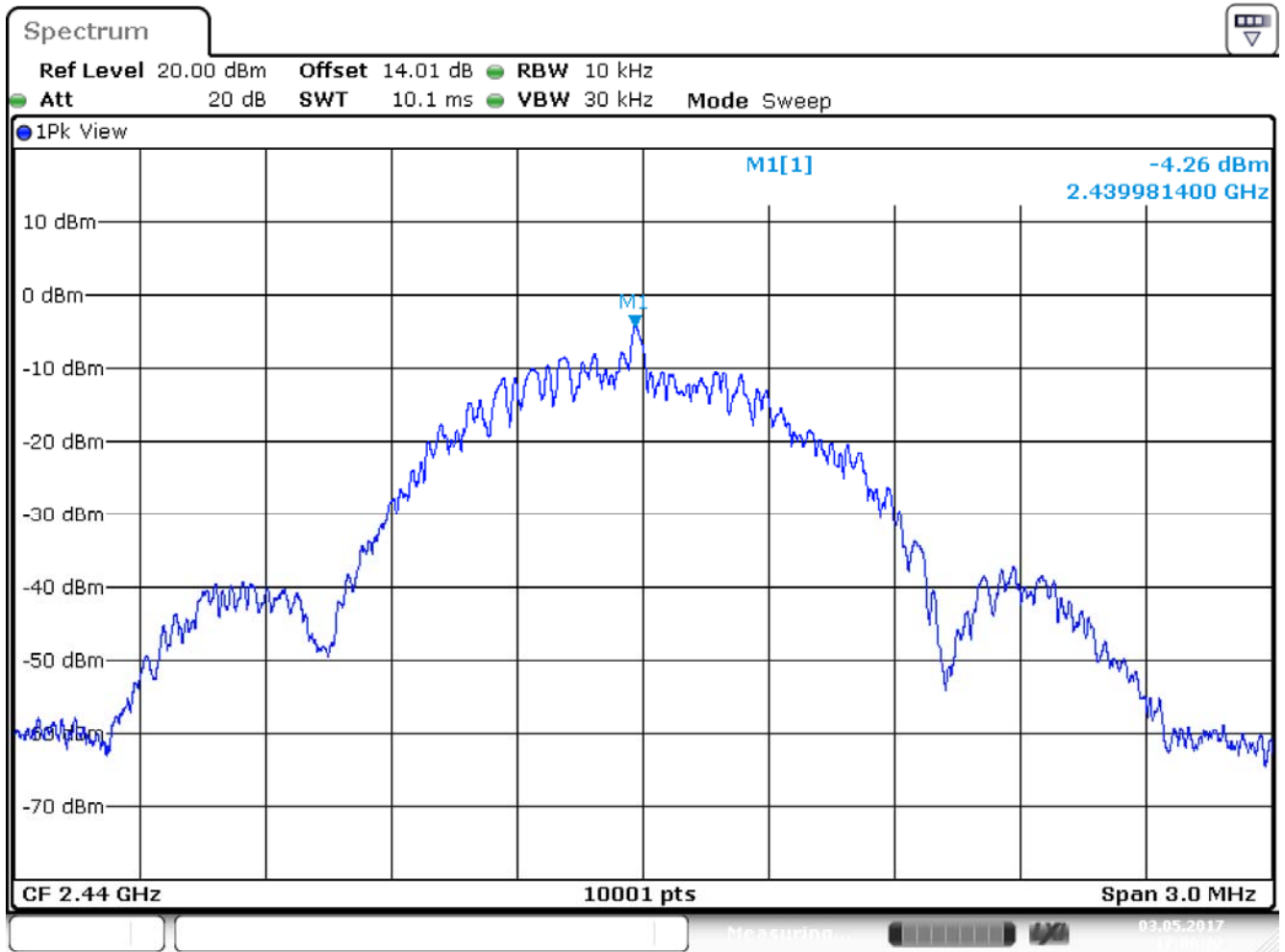
Channel No.	Frequency (MHz)	Measure Level(dBm)	Limit (dBm)	Result
00	2402	-4.460	≤ 8	Pass
19	2440	-4.260	≤ 8	Pass
39	2480	-5.420	≤ 8	Pass

Channel 00



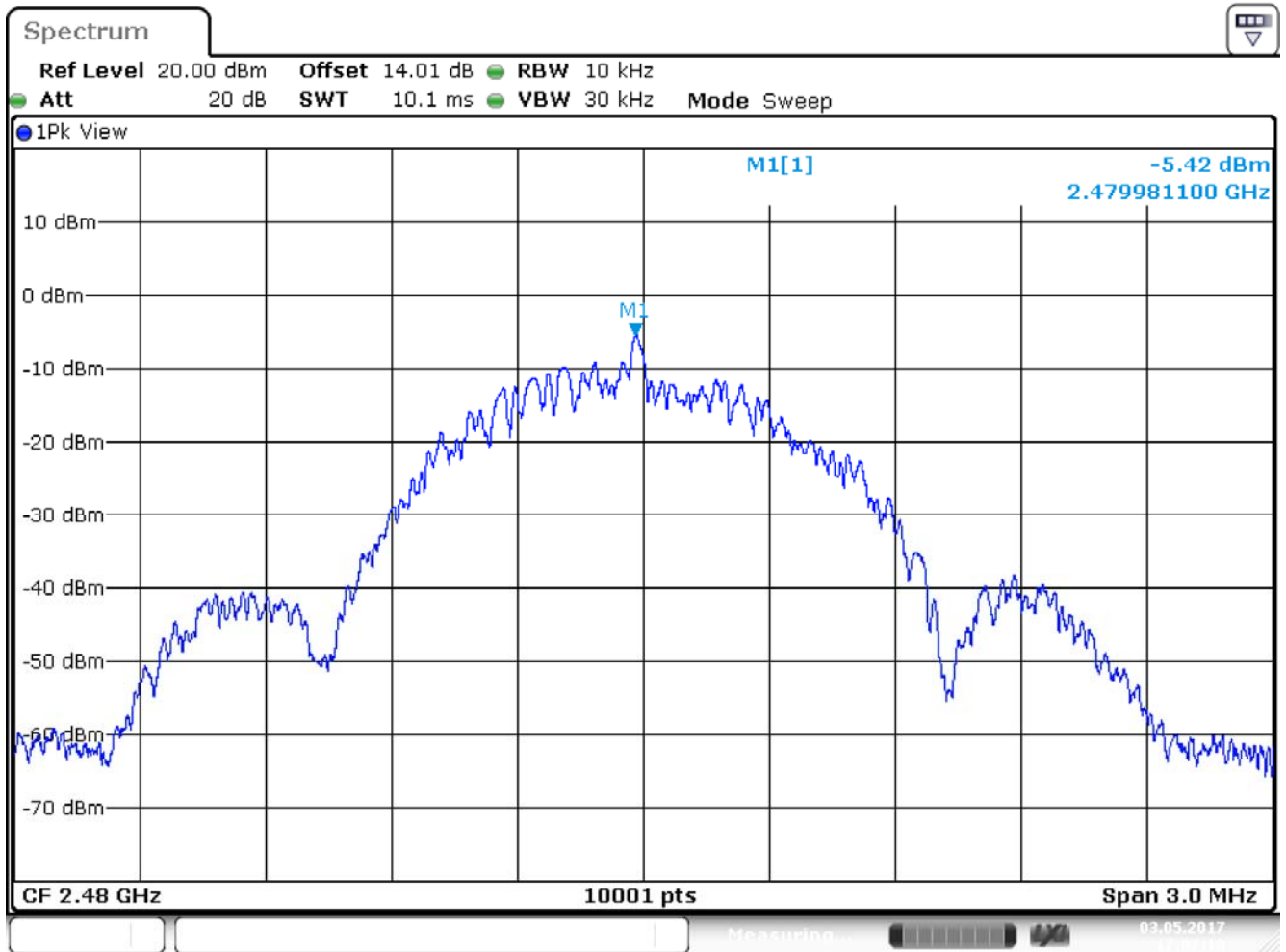
Date: 3.MAY.2017 17:00:58

Channel 19



Date: 3.MAY.2017 17:06:22

Channel 39



Date: 3.MAY.2017 17:07:10