

FCC Test Report

Product Name : ASUS SRT-AC1900 Wireless Smart Router

Model No. : SRT-AC1900

FCC ID. : MSQ-SRTAC1900

Applicant : ASUSTeK COMPUTER INC.

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

Date of Receipt : 2015/05/04

Issued Date : 2015/05/20

Report No. : 1550110R-RFUSP01V00-B

Report Version : V1.0



The test results relate only to the samples tested.

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Test Report Certification

Issued Date : 2015/05/20

Report No. : 1550110R-RFUSP01V00-B



Product Name : ASUS SRT-AC1900 Wireless Smart Router
 Applicant : ASUSTeK COMPUTER INC.
 Address : 4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan
 Manufacturer : MAINTEK Computer(Suzhou) Co.,Lrd.
 Model No. : SRT-AC1900
 FCC ID. : MSQ-SRTAC1900
 EUT Voltage : AC 100-240V, 50-60Hz
 Trade Name : ASUS
 Applicable Standard : FCC CFR Title 47 Part 15 Subpart C Section 15.247: 2014
 Test Result : Complied

The test results relate only to the samples tested.

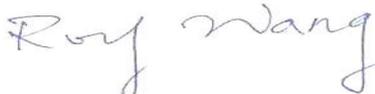
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 (Roy Wang / Director)

Laboratory Information

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

Taiwan R.O.C.	:	TAF, Accreditation Number: 3024
USA	:	FCC, Registration Number: 365520
Canada	:	IC, Submission No: 150981

The related certificate for our laboratories about the test site and management system can be downloaded from Quietek Corporation's Web Site:<http://www.quietek.com/english/about/certificates.aspx?bval=5>

The address and introduction of Quietek Corporation's laboratories can be founded in our Web site :
http://www.quietek.com/index_en.aspx

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

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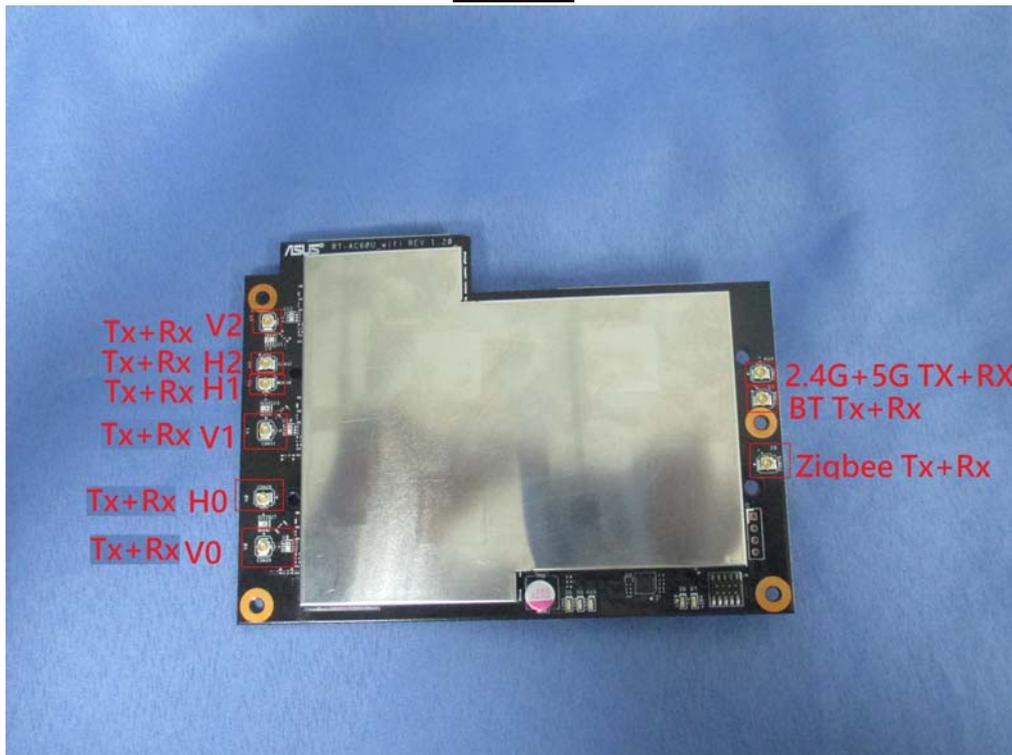
1. General Information

1.1. EUT Description

Product Name	ASUS SRT-AC1900 Wireless Smart Router
Trade Name	ASUS
Model No.	SRT-AC1900
Frequency Range/Channel Number	2402~2480MHz / 40 Channels
Type of Modulation	Bluetooth 4.0(GFSK)
Antenna Type	PIFA Antenna
Antenna Gain	3.61 dBi

Component	
LAN Cable	Non-Shielded, 1.8m, 2 PCS
Power Adatper	PIE, AD891M21 I/P: 100-240V~ 50/60Hz 0.8A O/P : 19V $\overline{=}$ 1.75A Cable Out: Non-Shielded, 1.8m
Power Adatper	I.T.E., AD890326 I/P: 100-240V~ 50/60Hz 0.8A O/P : 19V $\overline{=}$ 1.75A Cable Out: Non-Shielded, 1.8m
Power Adatper	Delta, ADP-33AW I/P: 100-240V~1A 50-60Hz O/P : 19V $\overline{=}$ 1.75A Cable Out: Non-Shielded, 1.8m

1TX1RX



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 an ASUS SRT-AC1900 Wireless Smart Router including 5GHz a/n/ac (3x3) / 2.4GHz (1x1) 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. This device is a Bluetooth 4.0 in accordance with Part 15 regulations. The function receiving was measured and made a test report that the report number is 1550110R-RFUSP01V00 under Declaration of Conformity and The function BT 2.0 was measured and made a test report that the report number is 11550110R-RFUSP01V00-A under Declaration of Conformity.
4. The function of the 5GHz transmitting is measured and makes a test report of the report number: 1550110R-RFUSP28V00 & 1550110R-RFUSP56V00.

1.2. Test Mode

QuieTek 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:

Pre-Test Mode	
Test Mode	Mode 1: Tx-AD891M21 Mode 2: Tx-AD890326 Mode 3: Tx-ADP-33AW
Final Test Mode	
Test Mode	Mode 1: Tx-AD891M21 Mode 2: Tx-AD890326 Mode 3: Tx-ADP-33AW

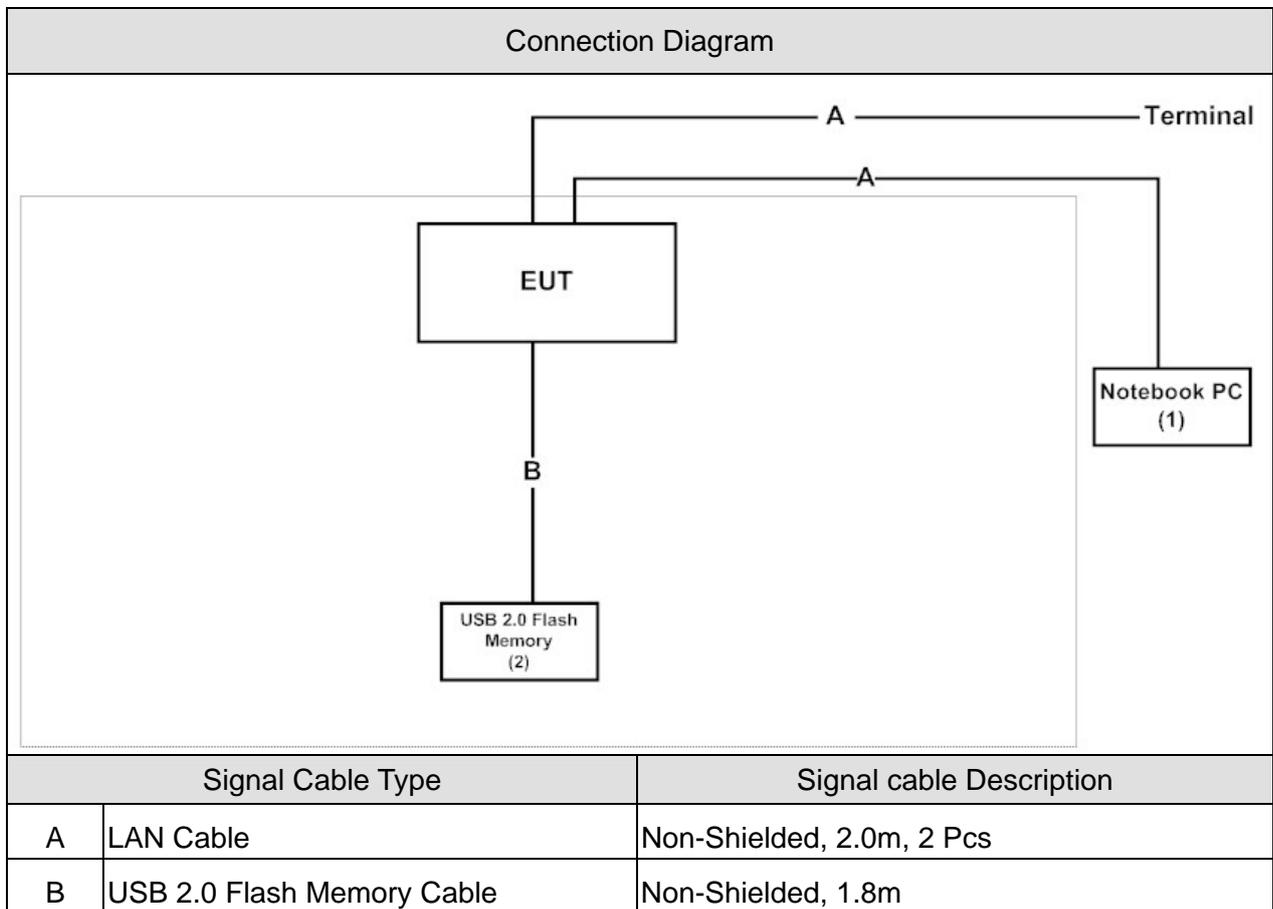
Test Items	Mode	Modulation	Channel	Antenna	Result
Conducted Emission	1/2/3	GFSK	19	0	Complies
Peak Power Output	1	GFSK	0/19/39	0	Complies
Radiated Emission	1/2/3	GFSK	0/19/39	0	Complies
RF antenna conducted test	1	GFSK	0/19/39	0	Complies
Radiated Emission Band Edge	1	GFSK	0/39	0	Complies
Occupied Bandwidth	1	GFSK	0/19/39	0	Complies
Power Density	1	GFSK	0/19/39	0	Complies

1.3. Tested System Details

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

Product	Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
1 Notebook PC	DELL	Vostro3400	7F808N1	DoC	Non-Shielded, 1.8m
2 USB 2.0 Flash Memory	Apacer	AH223	N/A	DoC	--

1.4. Configuration of tested System



1.5. EUT Exercise Software

1	Setup the EUT as shown in Section 1.4.
2	Execute the telnet command on the EUT.
3	Configure the test mode, the test channel to start the continuous transmit.
4	Verify that the EUT works properly.

1.6. Test Facility

Ambient conditions in the laboratory:

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

2. Conducted Emission

2.1. Test Equipment

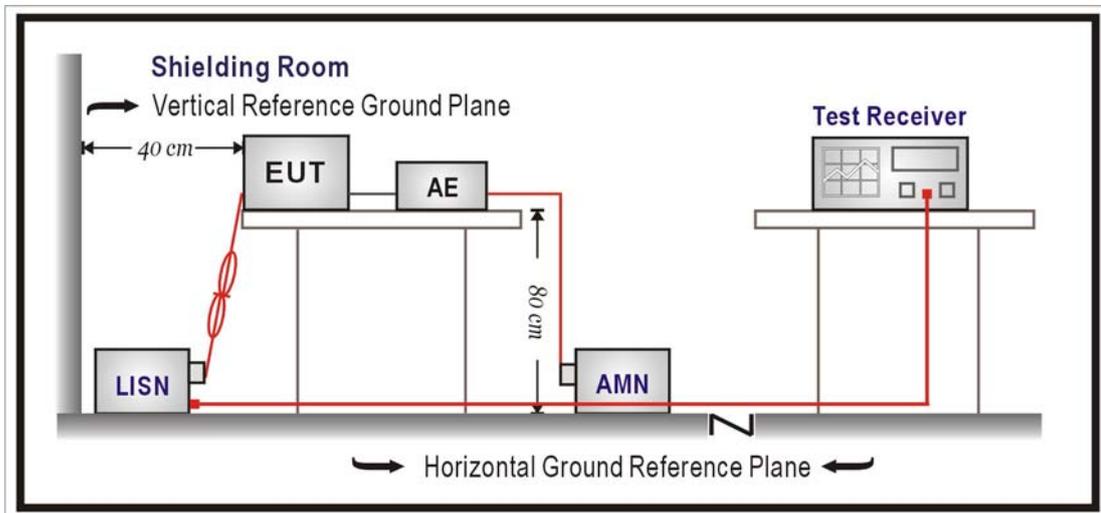
The following test equipments are used during the test:

Conducted Emission / SR3

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Artificial Mains Network	R&S	ENV4200	848411/010	2016/01/25
LISN	R&S	ENV216	100092	2015/08/24
Test Receiver	R&S	ESCS 30	825442/014	2015/07/13

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

2.2. Test Setup



2.3. Limits

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

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

2.4. Test Procedure

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

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

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

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

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

2.5. Test Specification

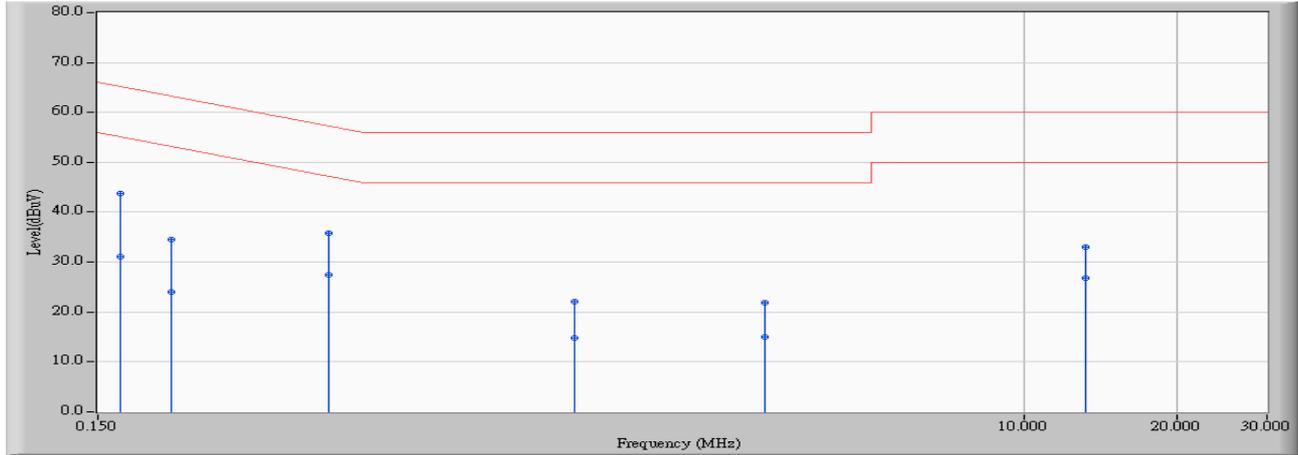
According to FCC Part 15 Subpart C Paragraph 15.207: 2014

2.6. Uncertainty

The measurement uncertainty is defined as ± 2.26 dB.

2.7. Test Result

Site : SR2	Time : 2015/05/19 - 14:24
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-4_0825 - Line1	Power : AC 120V/60Hz
EUT : ASUS SRT-AC1900 Wireless Smart Router	Note : Mode 1: Tx-AD891M21

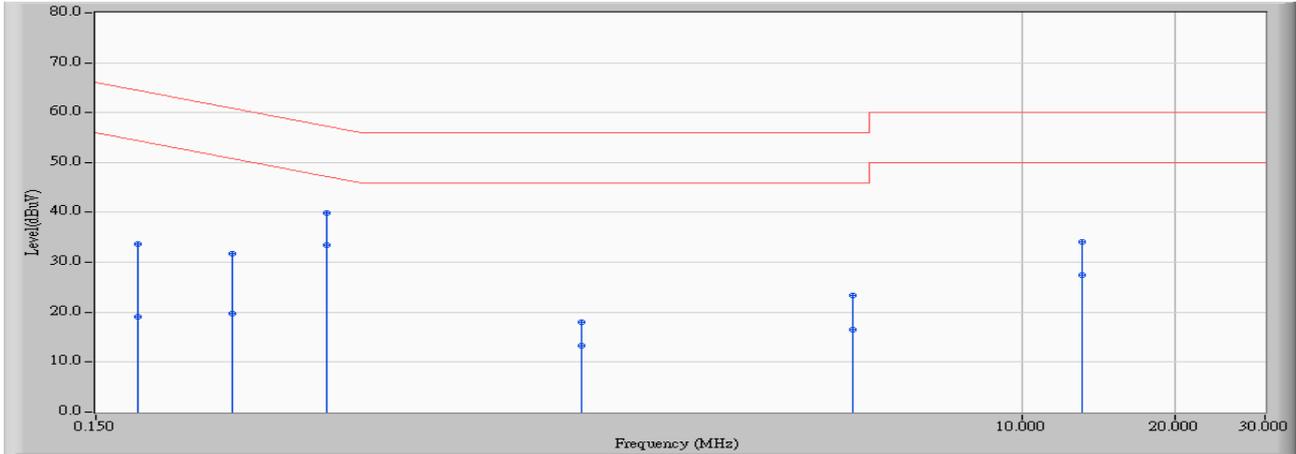


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.166	9.760	34.070	43.830	-21.347	65.177	QUASPEAK
2	0.166	9.760	21.410	31.170	-24.007	55.177	AVERAGE
3	0.209	9.759	24.810	34.569	-28.692	63.261	QUASPEAK
4	0.209	9.759	14.320	24.079	-29.182	53.261	AVERAGE
5	0.427	9.750	26.080	35.830	-21.474	57.304	QUASPEAK
6	* 0.427	9.750	17.800	27.550	-19.754	47.304	AVERAGE
7	1.298	9.813	12.300	22.113	-33.887	56.000	QUASPEAK
8	1.298	9.813	4.900	14.713	-31.287	46.000	AVERAGE
9	3.076	9.872	12.010	21.882	-34.118	56.000	QUASPEAK
10	3.076	9.872	5.230	15.102	-30.898	46.000	AVERAGE
11	13.197	10.154	22.890	33.044	-26.956	60.000	QUASPEAK
12	13.197	10.154	16.620	26.774	-23.226	50.000	AVERAGE

Note:

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

Site : SR2	Time : 2015/05/19 - 14:22
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-4_0825 - Line2	Power : AC 120V/60Hz
EUT : ASUS SRT-AC1900 Wireless Smart Router	Note : Mode 1: Tx-AD891M21

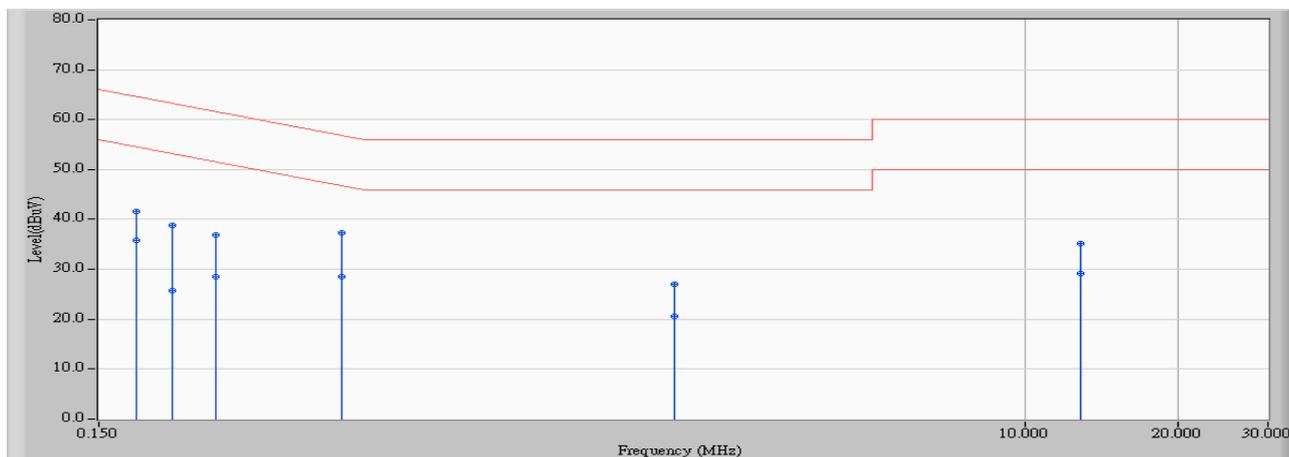


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.181	9.810	23.830	33.640	-30.788	64.428	QUASPEAK
2	0.181	9.810	9.360	19.170	-35.258	54.428	AVERAGE
3	0.279	9.814	21.940	31.754	-29.095	60.848	QUASPEAK
4	0.279	9.814	9.820	19.634	-31.215	50.848	AVERAGE
5	0.427	9.820	30.000	39.820	-17.484	57.304	QUASPEAK
6	*	9.820	23.590	33.410	-13.894	47.304	AVERAGE
7	1.353	9.874	8.210	18.084	-37.916	56.000	QUASPEAK
8	1.353	9.874	3.360	13.234	-32.766	46.000	AVERAGE
9	4.646	10.023	13.390	23.412	-32.588	56.000	QUASPEAK
10	4.646	10.023	6.590	16.612	-29.388	46.000	AVERAGE
11	13.068	10.273	23.780	34.053	-25.947	60.000	QUASPEAK
12	13.068	10.273	17.230	27.503	-22.497	50.000	AVERAGE

Note:

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

Site : SR2	Time : 2015/05/19 - 16:44
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-4_0825 - Line1	Power : AC 120V/60Hz
EUT : ASUS SRT-AC1900 Wireless Smart Router	Note : Mode 2: Tx-AD890326

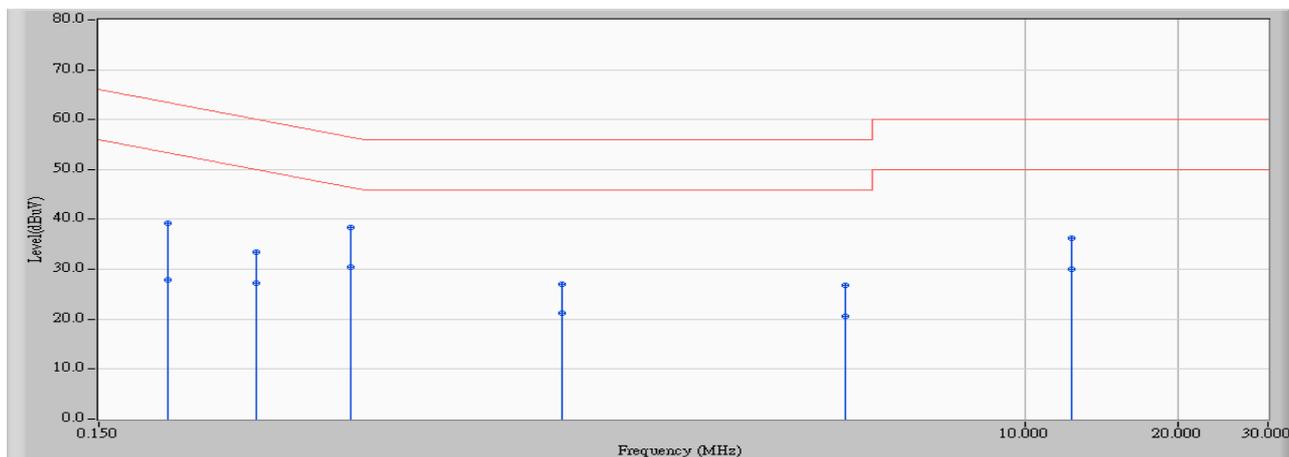


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.177	9.760	31.930	41.690	-22.919	64.609	QUASPEAK
2	0.177	9.760	26.130	35.890	-18.719	54.609	AVERAGE
3	0.209	9.759	29.080	38.839	-24.422	63.261	QUASPEAK
4	0.209	9.759	16.000	25.759	-27.502	53.261	AVERAGE
5	0.255	9.757	27.150	36.907	-24.670	61.577	QUASPEAK
6	0.255	9.757	18.730	28.487	-23.090	51.577	AVERAGE
7	0.451	9.751	27.610	37.361	-19.500	56.861	QUASPEAK
8	* 0.451	9.751	18.750	28.501	-18.360	46.861	AVERAGE
9	2.037	9.822	17.260	27.082	-28.918	56.000	QUASPEAK
10	2.037	9.822	10.670	20.492	-25.508	46.000	AVERAGE
11	12.865	10.149	24.920	35.069	-24.931	60.000	QUASPEAK
12	12.865	10.149	19.090	29.239	-20.761	50.000	AVERAGE

Note:

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

Site : SR2	Time : 2015/05/19 - 16:46
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-4_0825 - Line2	Power : AC 120V/60Hz
EUT : ASUS SRT-AC1900 Wireless Smart Router	Note : Mode 2: Tx-AD890326

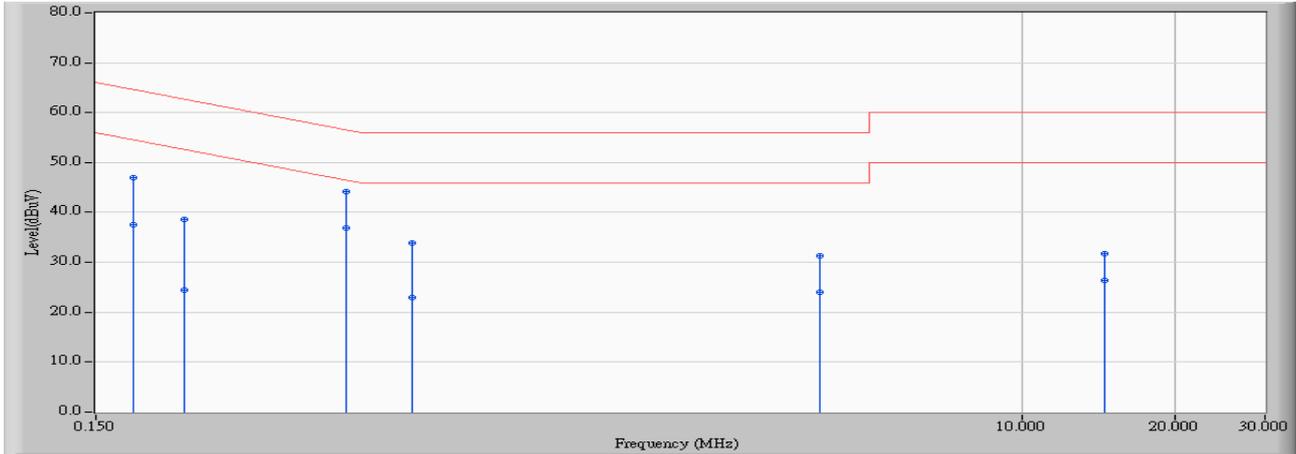


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.205	9.810	29.530	39.340	-24.078	63.418	QUASPEAK
2	0.205	9.810	18.110	27.920	-25.498	53.418	AVERAGE
3	0.306	9.815	23.740	33.555	-26.516	60.072	QUASPEAK
4	0.306	9.815	17.520	27.335	-22.736	50.072	AVERAGE
5	0.470	9.820	28.470	38.290	-18.218	56.508	QUASPEAK
6	* 0.470	9.820	20.600	30.420	-16.088	46.508	AVERAGE
7	1.224	9.872	17.210	27.082	-28.918	56.000	QUASPEAK
8	1.224	9.872	11.410	21.282	-24.718	46.000	AVERAGE
9	4.423	10.010	16.770	26.780	-29.220	56.000	QUASPEAK
10	4.423	10.010	10.490	20.500	-25.500	46.000	AVERAGE
11	12.310	10.252	26.000	36.252	-23.748	60.000	QUASPEAK
12	12.310	10.252	19.830	30.082	-19.918	50.000	AVERAGE

Note:

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

Site : SR2	Time : 2015/05/19 - 15:37
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-4_0825 - Line1	Power : AC 120V/60Hz
EUT : ASUS SRT-AC1900 Wireless Smart Router	Note : Mode 3: Tx-ADP-33AW

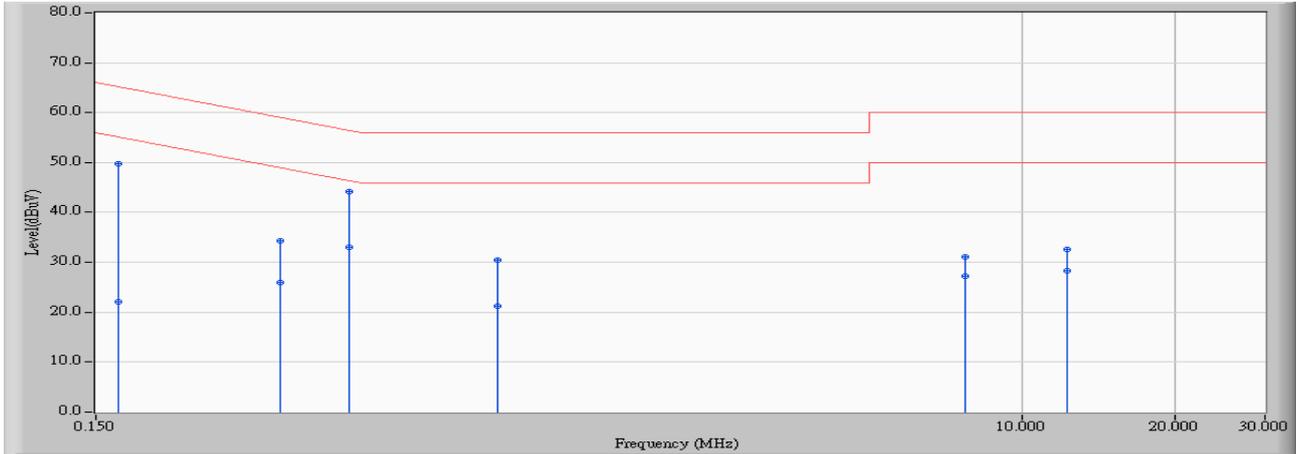


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.177	9.760	37.130	46.890	-17.719	64.609	QUASPEAK
2	0.177	9.760	27.810	37.570	-17.039	54.609	AVERAGE
3	0.224	9.759	28.850	38.609	-24.052	62.661	QUASPEAK
4	0.224	9.759	14.590	24.349	-28.312	52.661	AVERAGE
5	0.466	9.751	34.470	44.221	-12.357	56.578	QUASPEAK
6	*	9.751	27.220	36.971	-9.607	46.578	AVERAGE
7	0.630	9.767	24.100	33.867	-22.133	56.000	QUASPEAK
8	0.630	9.767	13.220	22.987	-23.013	46.000	AVERAGE
9	3.978	9.916	21.340	31.256	-24.744	56.000	QUASPEAK
10	3.978	9.916	14.010	23.926	-22.074	46.000	AVERAGE
11	14.545	10.178	21.640	31.817	-28.183	60.000	QUASPEAK
12	14.545	10.178	16.230	26.407	-23.593	50.000	AVERAGE

Note:

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

Site : SR2	Time : 2015/05/19 - 15:35
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-4_0825 - Line2	Power : AC 120V/60Hz
EUT : ASUS SRT-AC1900 Wireless Smart Router	Note : Mode 3: Tx-ADP-33AW



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.166	9.810	40.000	49.810	-15.367	65.177	QUASPEAK
2	0.166	9.810	12.230	22.040	-33.137	55.177	AVERAGE
3	0.345	9.817	24.460	34.277	-24.797	59.074	QUASPEAK
4	0.345	9.817	16.230	26.047	-23.027	49.074	AVERAGE
5	* 0.474	9.820	34.350	44.170	-12.270	56.440	QUASPEAK
6	0.474	9.820	23.290	33.110	-13.330	46.440	AVERAGE
7	0.927	9.863	20.650	30.513	-25.487	56.000	QUASPEAK
8	0.927	9.863	11.270	21.133	-24.867	46.000	AVERAGE
9	7.713	10.122	20.910	31.032	-28.968	60.000	QUASPEAK
10	7.713	10.122	17.220	27.342	-22.658	50.000	AVERAGE
11	12.263	10.251	22.380	32.631	-27.369	60.000	QUASPEAK
12	12.263	10.251	18.100	28.351	-21.649	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

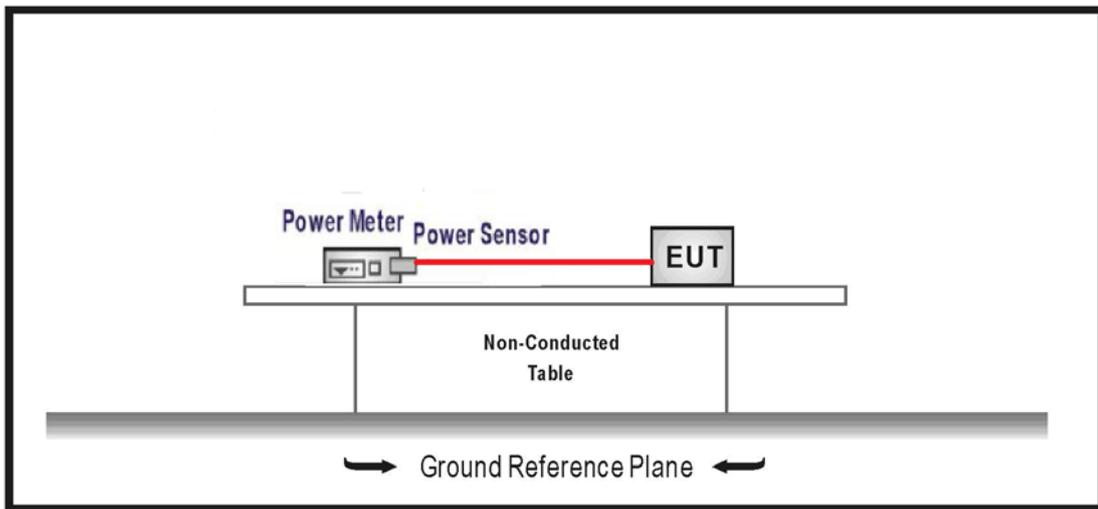
The following test equipment is used during the test:

Peak Power Output / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Power Meter	Agilent	N1911A	MY45101353	2015/10/31
Power Sensor	Agilent	N1921A	MY45241670	2015/10/31

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

3.2. Test Setup



3.3. Test procedures

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

3.4. Limits

The maximum peak power shall be less 1 Watt.

3.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247

3.6. Test Result

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Power Output		
Test Mode	Mode 1: Tx-AD891M21		
Date of Test	2015/05/20	Test Site	SR7

GFSK

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
00	2402	7.96	30	Pass
19	2440	8.83	30	Pass
39	2480	9.37	30	Pass

4. Radiated Emission

4.1. Test Equipment

The following test equipments are used during the test:

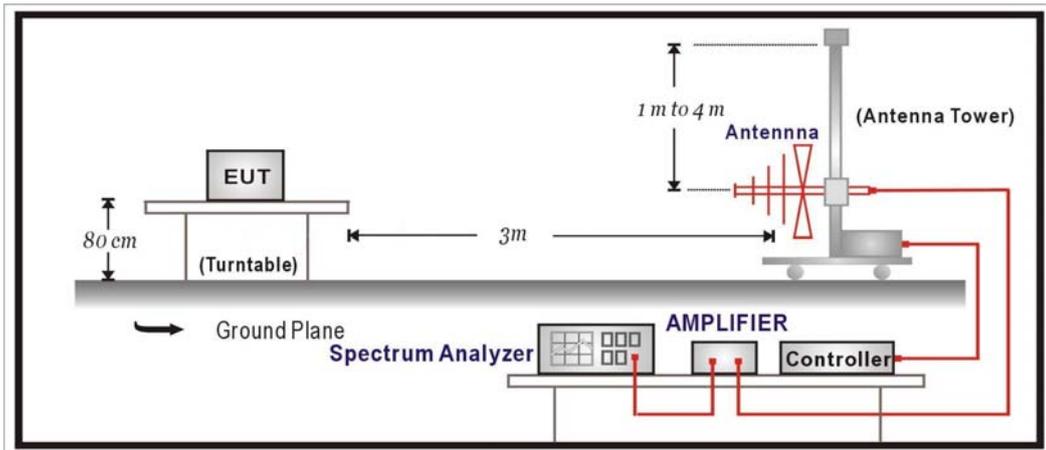
Radiated Emission / CB1

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Bilog Antenna	SCHAFFNER	CBL6112B	2895(CB1)	2015/08/14
Double Ridged Guide Horn Antenna	Schwarzback	BBHA 9120	D743	2016/01/26
Pre-Amplifier	EMCI	EMC0031835	980233	2016/01/18
Pre-Amplifier	Quietek	AP-025C	CHM-0706049	2016/01/18
Spectrum Analyzer	Agilent	E4440A	MY46187335	2016/01/07
k Type Cable	Huber Suhner	Sucoflex 102	25623/2	2016/01/26
Bilog Antenna	SCHAFFNER	CBL6112B	2895(CB1)	2015/08/14

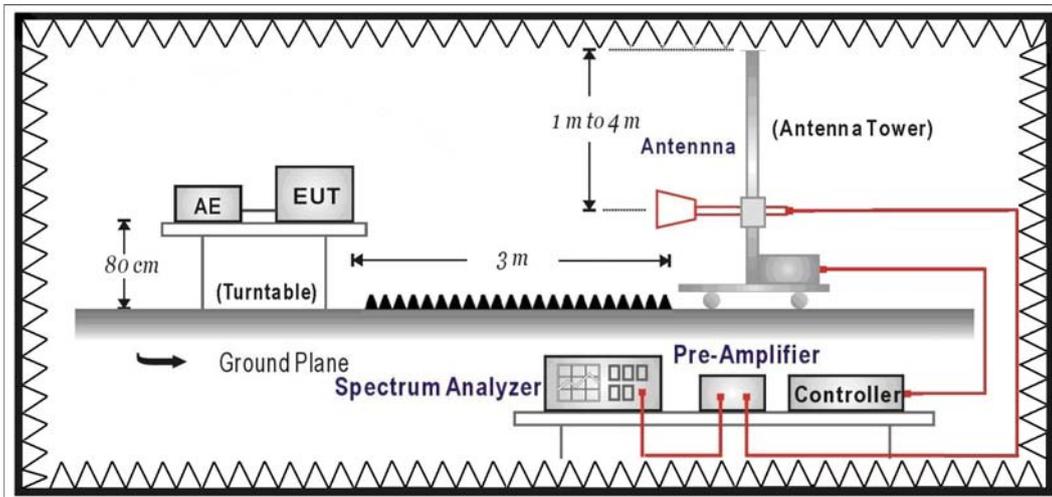
Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

4.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limits

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

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

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

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

On any frequency or frequencies below or equal to 1000 MHz, the limits shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limits shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit. The bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

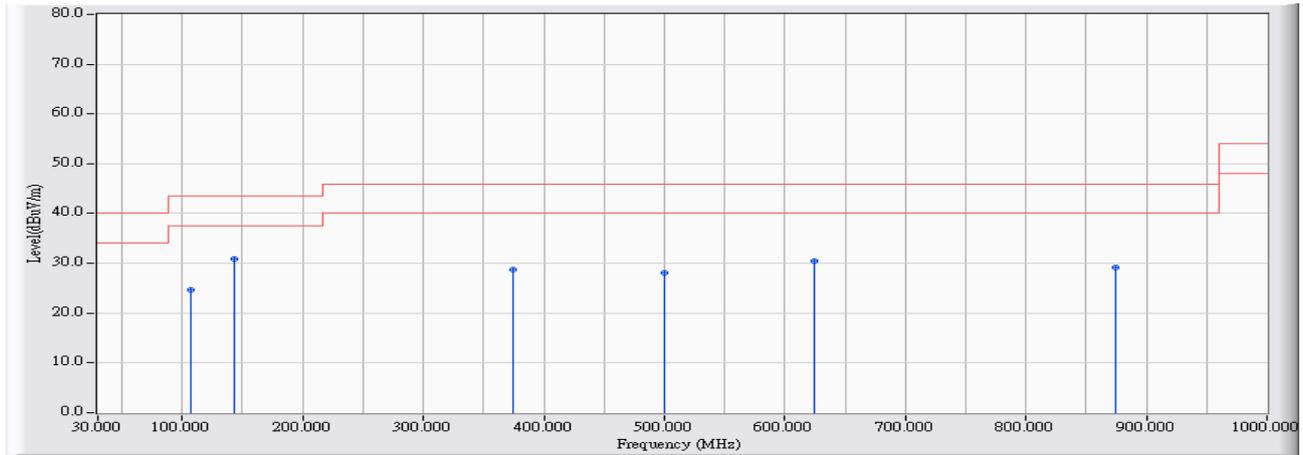
4.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247

4.6. Test Result

30MHz-1GHz Spurious

Site : CB1	Time : 2015/05/10 - 13:20
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	Power : AC 120V/60Hz
EUT : ASUS SRT-AC1900 Wireless Smart Router	Note : Mode 1: Tx-AD891M21 BLE_2440MHz

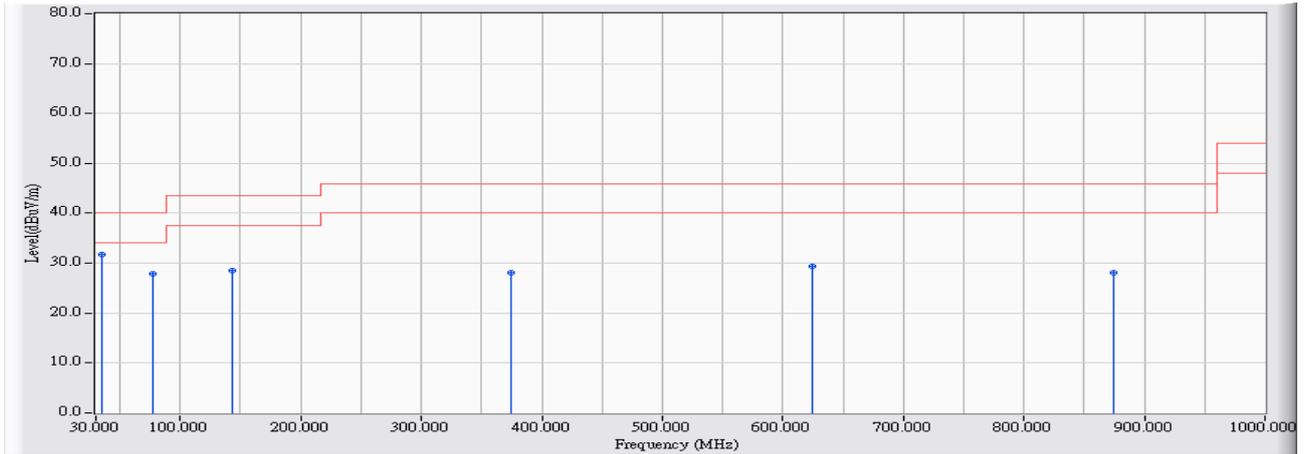


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	106.592	10.165	14.564	24.728	-18.772	43.500	QUASPEAK
2	* 142.949	9.985	20.887	30.872	-12.628	43.500	QUASPEAK
3	374.663	14.546	14.298	28.844	-17.156	46.000	QUASPEAK
4	499.730	17.175	10.994	28.169	-17.831	46.000	QUASPEAK
5	624.798	17.610	12.872	30.482	-15.518	46.000	QUASPEAK
6	874.933	19.407	9.844	29.251	-16.749	46.000	QUASPEAK

Note:

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

Site : CB1	Time : 2015/05/10 - 13:35
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	Power : AC 120V/60Hz
EUT : ASUS SRT-AC1900 Wireless Smart Router	Note : Mode 1: Tx-AD891M21 BLE_2440MHz

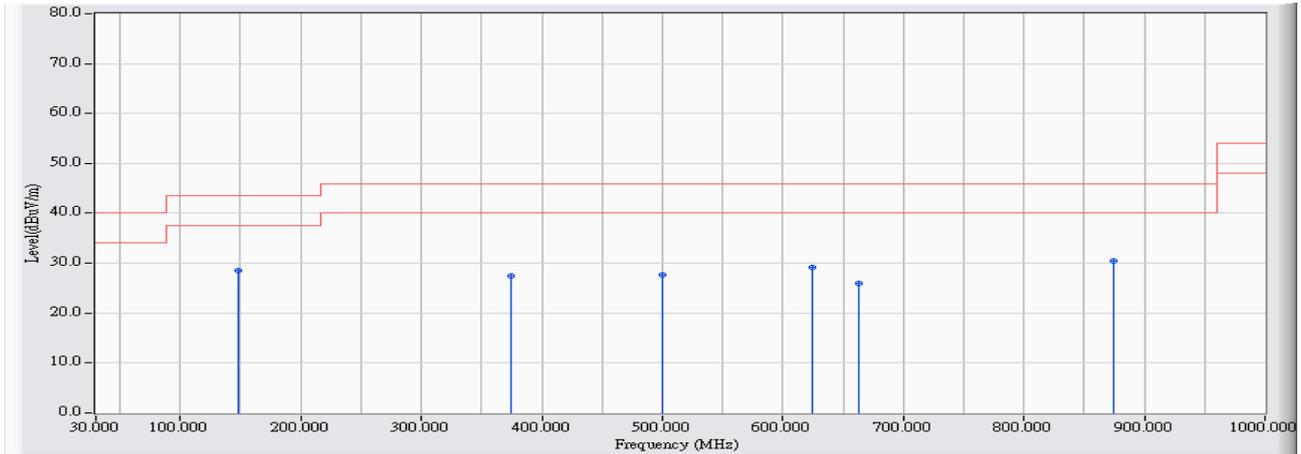


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	34.363	12.740	19.093	31.834	-8.166	40.000	QUASPEAK
2		77.021	6.050	21.875	27.924	-12.076	40.000	QUASPEAK
3		142.949	9.985	18.611	28.596	-14.904	43.500	QUASPEAK
4		374.663	14.546	13.580	28.126	-17.874	46.000	QUASPEAK
5		624.798	17.610	11.771	29.381	-16.619	46.000	QUASPEAK
6		874.933	19.407	8.660	28.067	-17.933	46.000	QUASPEAK

Note:

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

Site : CB1	Time : 2015/05/09 - 18:53
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	Power : AC 120V/60Hz
EUT : ASUS SRT-AC1900 Wireless Smart Router	Note : Mode 2: Tx-AD890326 BLE 2440MHz

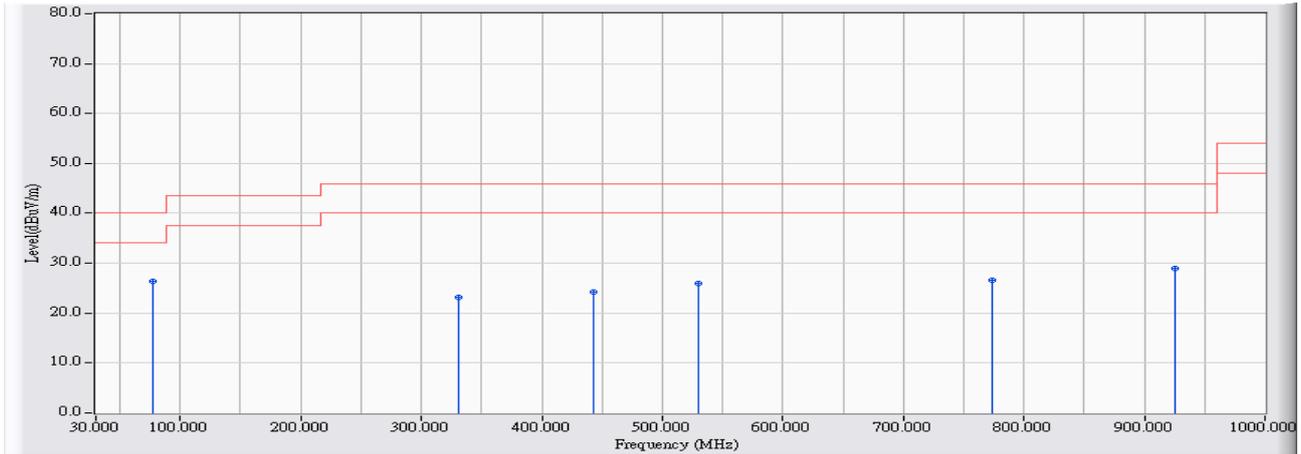


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	147.796	9.743	18.839	28.583	-14.917	43.500	QUASPEAK
2		374.663	14.546	12.827	27.373	-18.627	46.000	QUASPEAK
3		499.730	17.175	10.500	27.675	-18.325	46.000	QUASPEAK
4		624.798	17.610	11.628	29.238	-16.762	46.000	QUASPEAK
5		663.093	17.805	8.085	25.890	-20.110	46.000	QUASPEAK
6		874.933	19.407	11.053	30.460	-15.540	46.000	QUASPEAK

Note:

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

Site : CB1	Time : 2015/05/09 - 20:11
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	Power : AC 120V/60Hz
EUT : ASUS SRT-AC1900 Wireless Smart Router	Note : Mode 2: Tx-AD890326 BLE 2440MHz

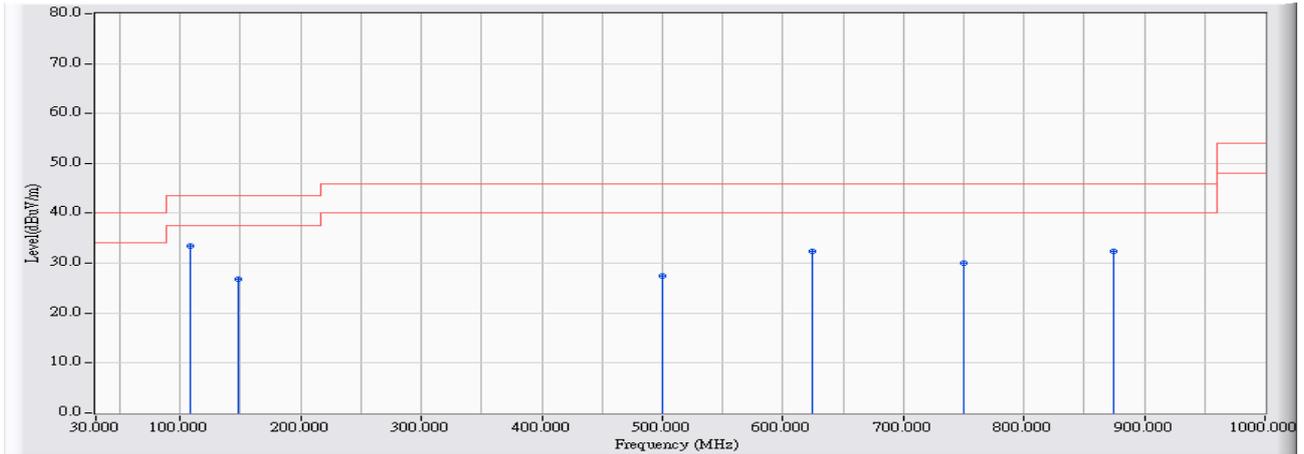


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	77.021	6.050	20.385	26.434	-13.566	40.000	QUASPEAK
2		331.519	13.509	9.675	23.184	-22.816	46.000	QUASPEAK
3		443.013	16.027	8.116	24.143	-21.857	46.000	QUASPEAK
4		530.270	17.274	8.634	25.908	-20.092	46.000	QUASPEAK
5		773.618	18.892	7.736	26.628	-19.372	46.000	QUASPEAK
6		924.863	19.675	9.352	29.027	-16.973	46.000	QUASPEAK

Note:

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

Site : CB1	Time : 2015/05/09 - 07:58
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	Power : AC 120V/60Hz
EUT : ASUS SRT-AC1900 Wireless Smart Router	Note : Mode 3: Tx-ADP-33AW BLE 2440MHz

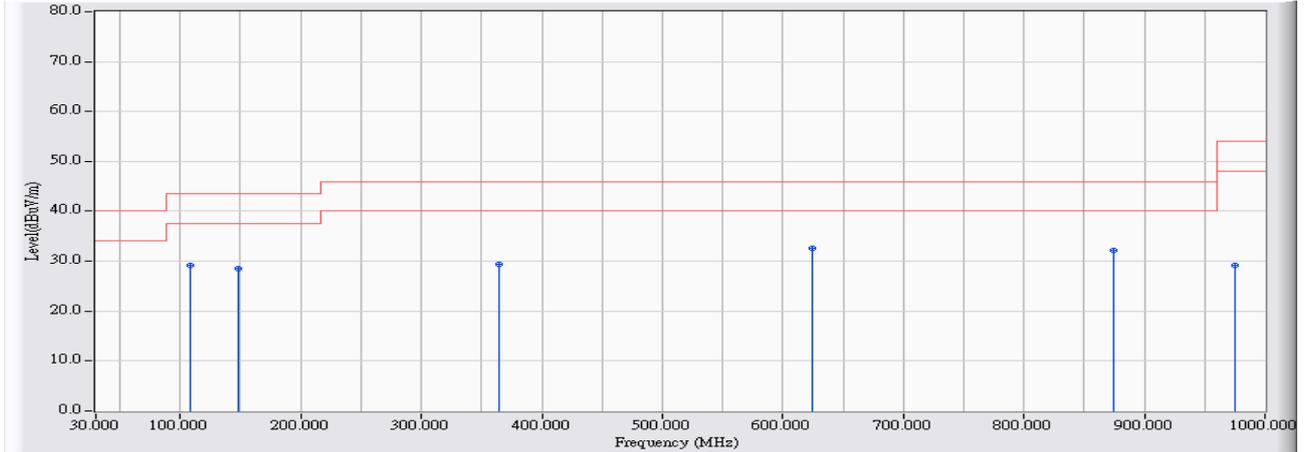


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	108.531	10.259	23.120	33.379	-10.121	43.500	QUASPEAK
2		147.796	9.743	17.088	26.832	-16.668	43.500	QUASPEAK
3		499.730	17.175	10.375	27.550	-18.450	46.000	QUASPEAK
4		624.798	17.610	14.745	32.355	-13.645	46.000	QUASPEAK
5		749.865	18.602	11.399	30.001	-15.999	46.000	QUASPEAK
6		874.933	19.407	12.911	32.318	-13.682	46.000	QUASPEAK

Note:

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

Site : CB1	Time : 2015/05/09 - 07:38
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	Power : AC 120V/60Hz
EUT : ASUS SRT-AC1900 Wireless Smart Router	Note : Mode 3: Tx-ADP-33AW BLE 2440MHz



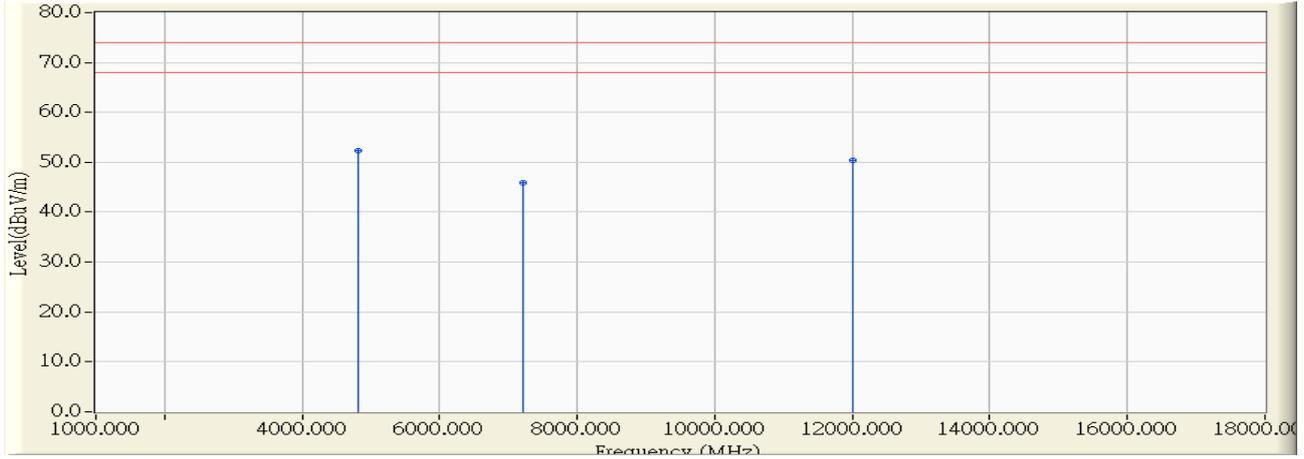
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	108.531	10.259	18.995	29.254	-14.246	43.500	QUASPEAK
2	147.796	9.743	18.887	28.631	-14.869	43.500	QUASPEAK
3	364.483	14.301	15.133	29.434	-16.566	46.000	QUASPEAK
4	* 624.798	17.610	15.017	32.627	-13.373	46.000	QUASPEAK
5	874.933	19.407	12.697	32.104	-13.896	46.000	QUASPEAK
6	974.793	20.083	9.160	29.243	-24.757	54.000	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

Harmonic & Spurious:

Site : CB1	Time : 2015/05/12 - 18:39
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V/60Hz
EUT : ASUS SRT-AC1900 Wireless Smart Router	Note : Mode 1: Tx-AD891M21 BLE_2402MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4804.412	-1.623	53.870	52.247	-21.753	74.000	PEAK
2		7205.805	6.917	39.040	45.957	-28.043	74.000	PEAK
3		12008.768	11.618	38.700	50.318	-23.682	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 : CB1	Time : 2015/05/12 - 18:40
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V/60Hz
EUT : ASUS SRT-AC1900 Wireless Smart Router	Note : Mode 1: Tx-AD891M21 BLE_2402MHz

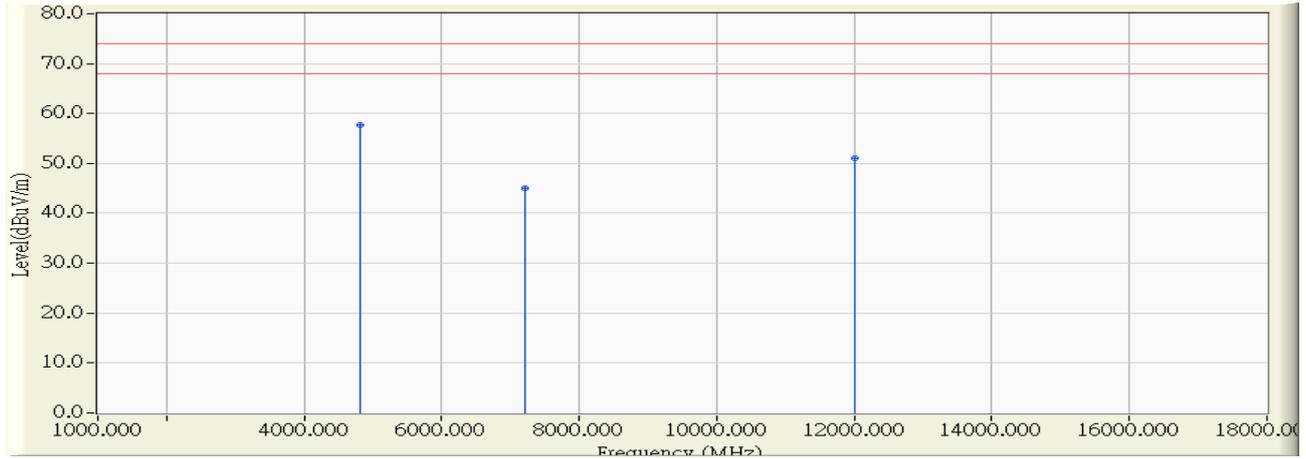


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4803.875	-1.624	41.310	39.686	-14.314	54.000	AVERAGE

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 : CB1	Time : 2015/05/12 - 18:59
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V/60Hz
EUT : ASUS SRT-AC1900 Wireless Smart Router	Note : Mode 1: Tx-AD891M21 BLE_2402MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4803.512	-0.676	58.270	57.594	-16.406	74.000	PEAK
2		7205.018	6.415	38.720	45.135	-28.865	74.000	PEAK
3		12007.779	11.144	39.910	51.054	-22.946	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 : CB1	Time : 2015/05/12 - 18:59
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V/60Hz
EUT : ASUS SRT-AC1900 Wireless Smart Router	Note : Mode 1: Tx-AD891M21 BLE_2402MHz

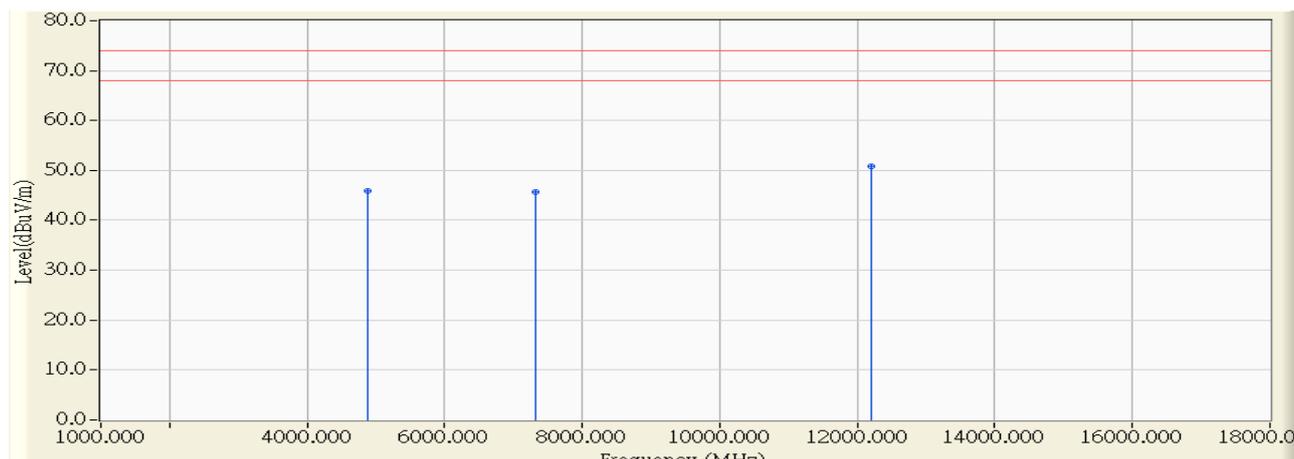


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4803.867	-0.677	44.780	44.104	-9.896	54.000	AVERAGE

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 : CB1	Time : 2015/05/12 - 19:32
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V/60Hz
EUT : ASUS SRT-AC1900 Wireless Smart Router	Note : Mode 1: Tx-AD891M21 BLE_2440MHz

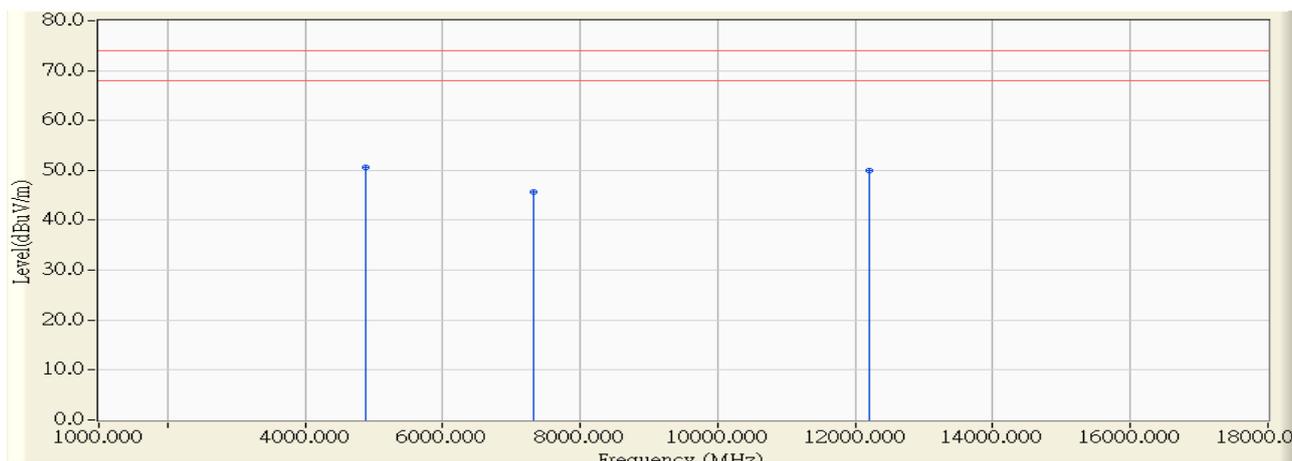


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4879.326	-1.441	47.290	45.850	-28.150	74.000	PEAK
2	7320.076	7.164	38.620	45.784	-28.216	74.000	PEAK
3	* 12199.540	11.436	39.310	50.746	-23.254	74.000	PEAK

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 : CB1	Time : 2015/05/12 - 19:39
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V/60Hz
EUT : ASUS SRT-AC1900 Wireless Smart Router	Note : Mode 1: Tx-AD891M21 BLE_2440MHz

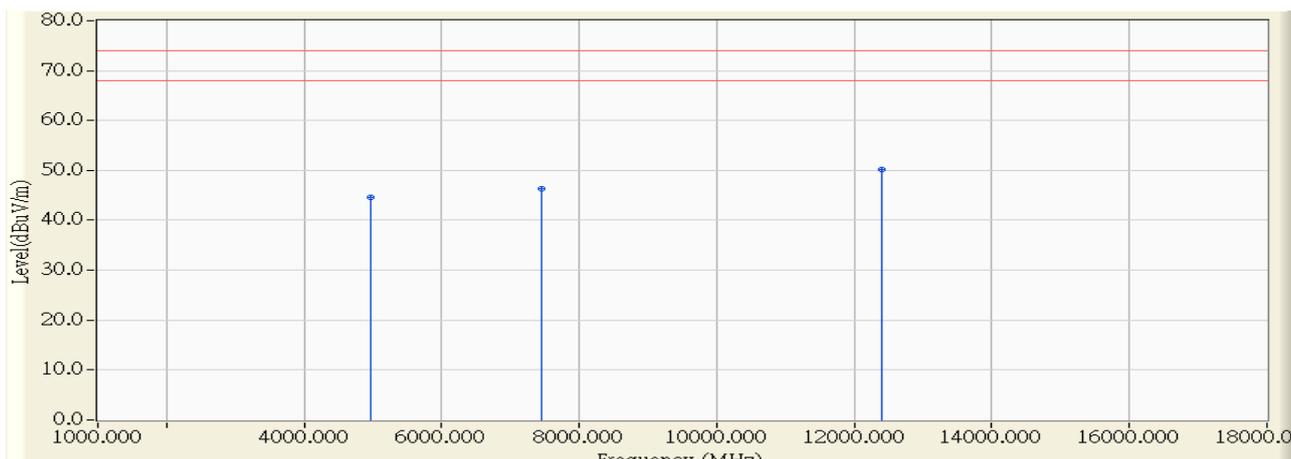


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4879.350	-0.681	51.340	50.659	-23.341	74.000	PEAK
2		7317.588	6.658	38.940	45.599	-28.401	74.000	PEAK
3		12198.750	11.153	38.760	49.912	-24.088	74.000	PEAK

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 : CB1	Time : 2015/05/12 - 19:46
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V/60Hz
EUT : ASUS SRT-AC1900 Wireless Smart Router	Note : Mode 1: Tx-AD891M21 BLE_2480MHz

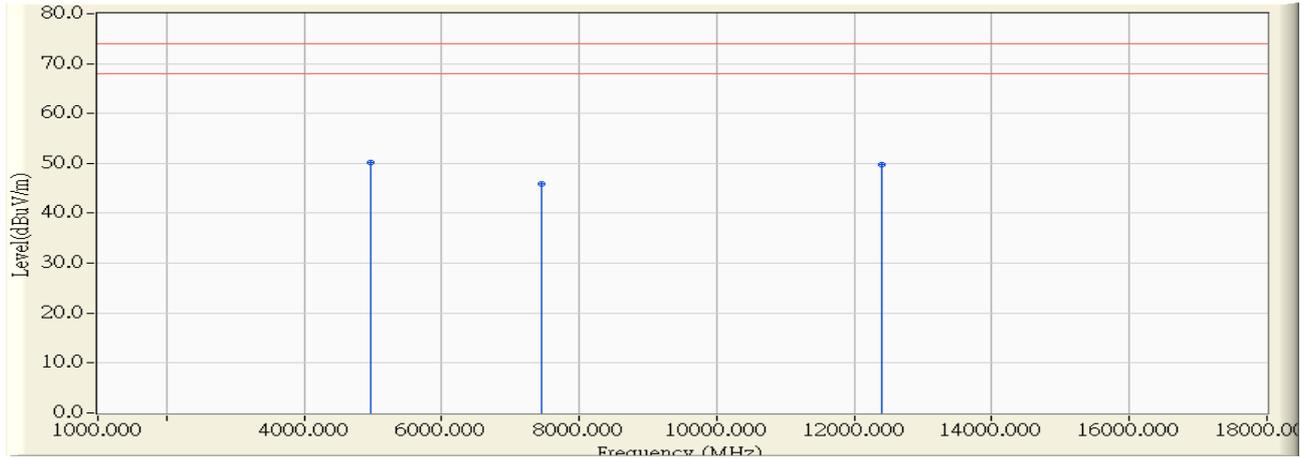


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4959.448	-1.245	45.840	44.595	-29.405	74.000	PEAK
2	7442.316	7.429	38.870	46.298	-27.702	74.000	PEAK
3	* 12400.349	11.244	38.950	50.194	-23.806	74.000	PEAK

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 : CB1	Time : 2015/05/12 - 19:52
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V/60Hz
EUT : ASUS SRT-AC1900 Wireless Smart Router	Note : Mode 1: Tx-AD891M21 BLE_2480MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4959.477	-0.687	50.840	50.154	-23.846	74.000	PEAK
2		7442.260	6.929	38.890	45.818	-28.182	74.000	PEAK
3		12400.974	11.161	38.660	49.821	-24.179	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.

5. RF antenna conducted test

5.1. Test Equipment

The following test equipment is used during the test:

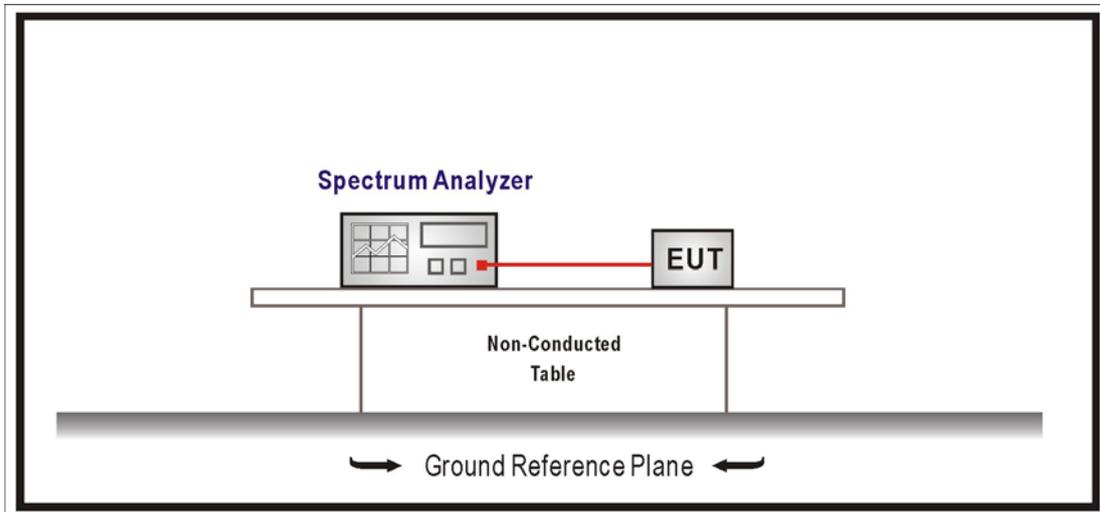
RF antenna conducted test / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2015/07/14

Note: 1. All equipments 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 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

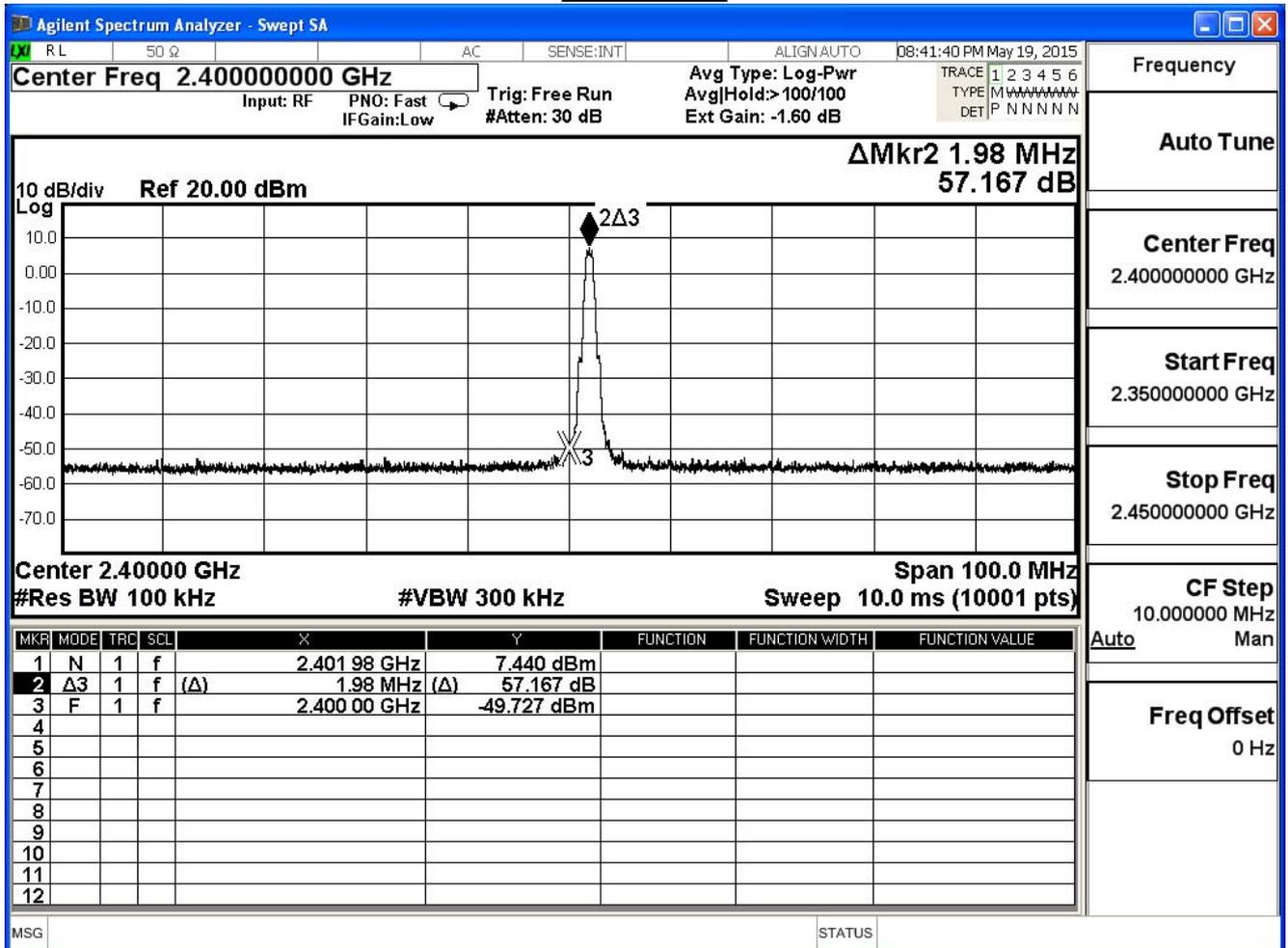
5.6. Test Result

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Tx-AD891M21		
Date of Test	2015/05/20	Test Site	SR7

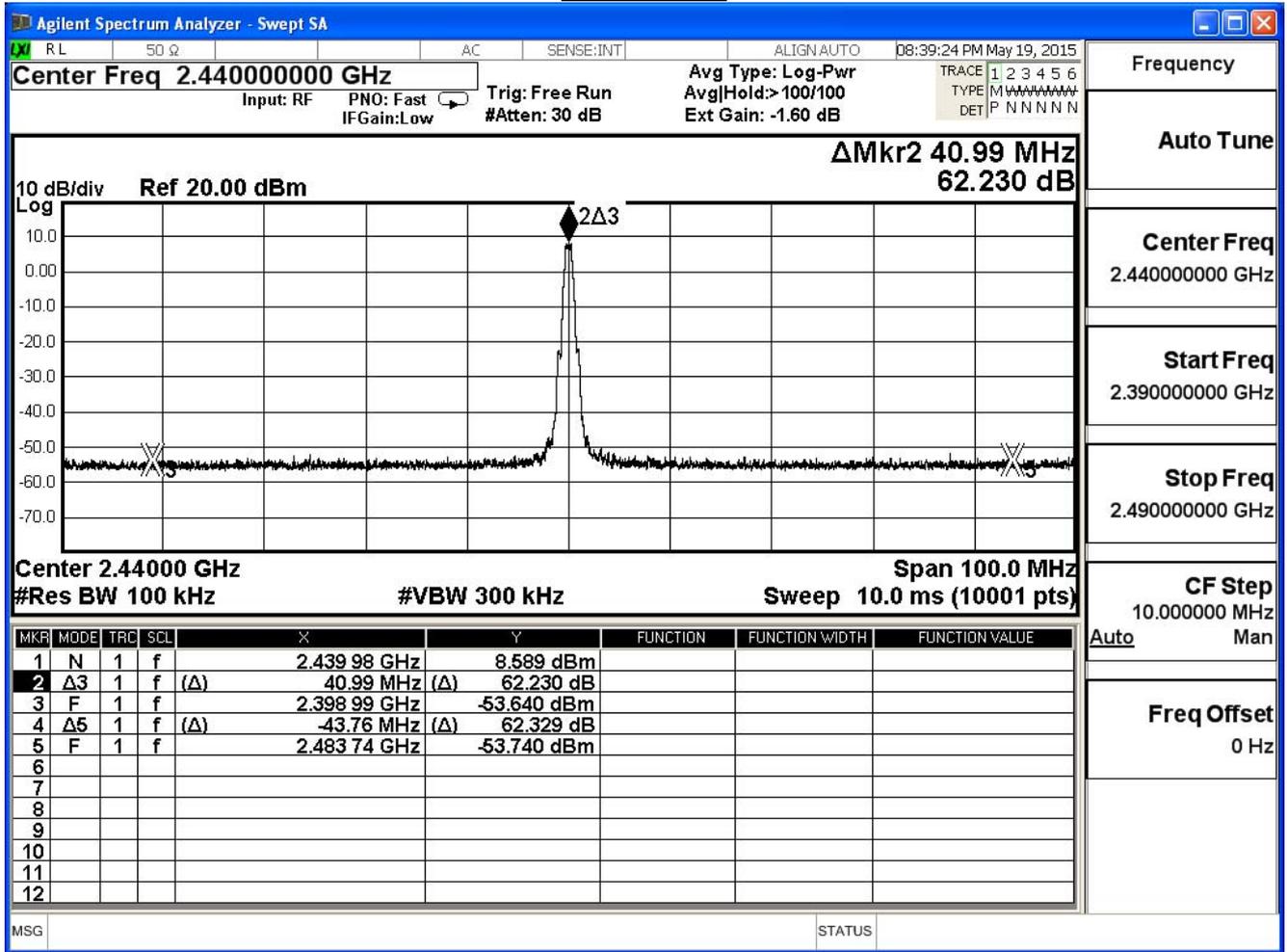
GFSK

Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
00	2402	57.167	≥ 20	Pass
19	2440	62.230	≥ 20	Pass
39	2480	60.355	≥ 20	Pass

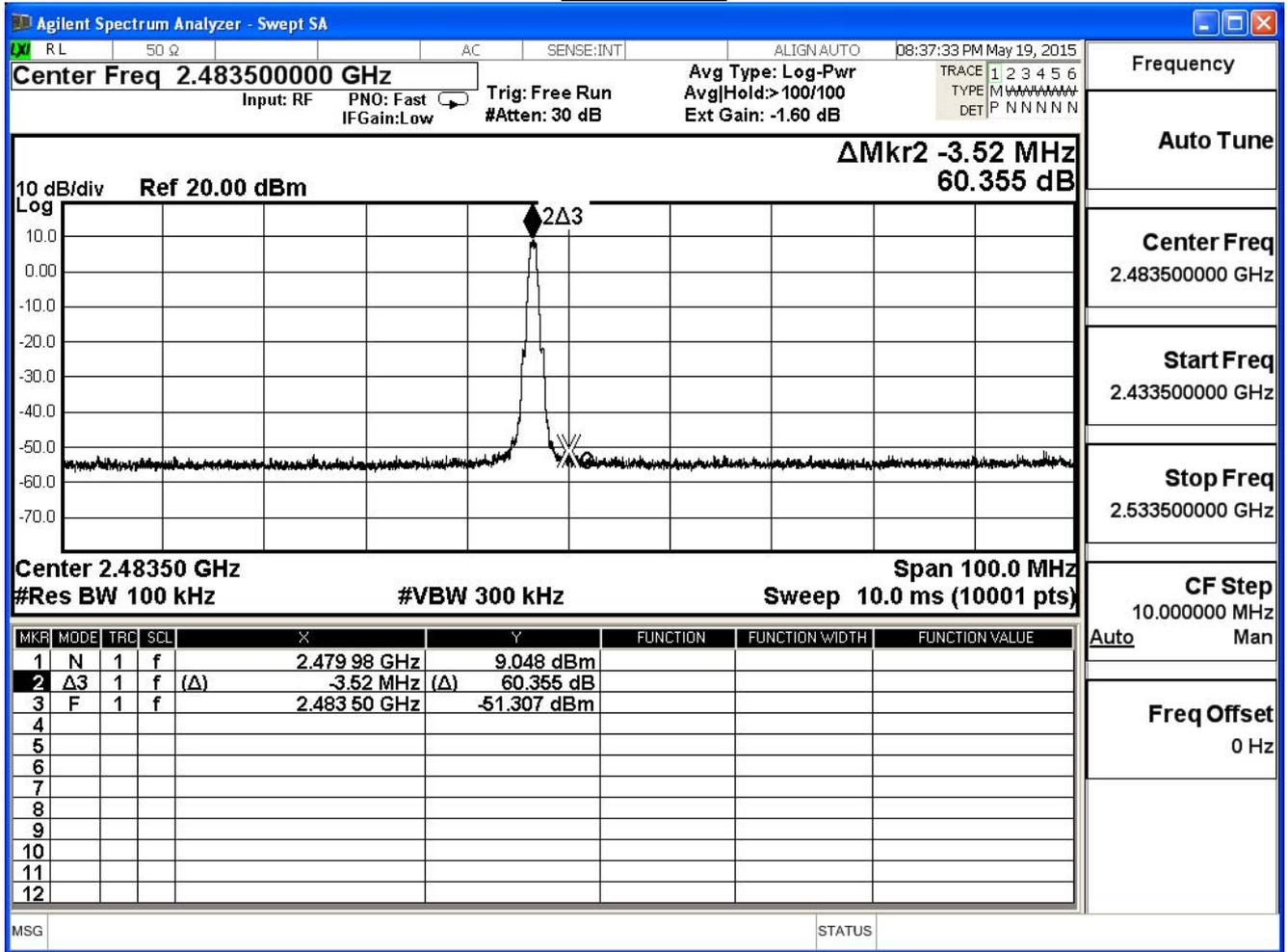
Channel 00



Channel 19

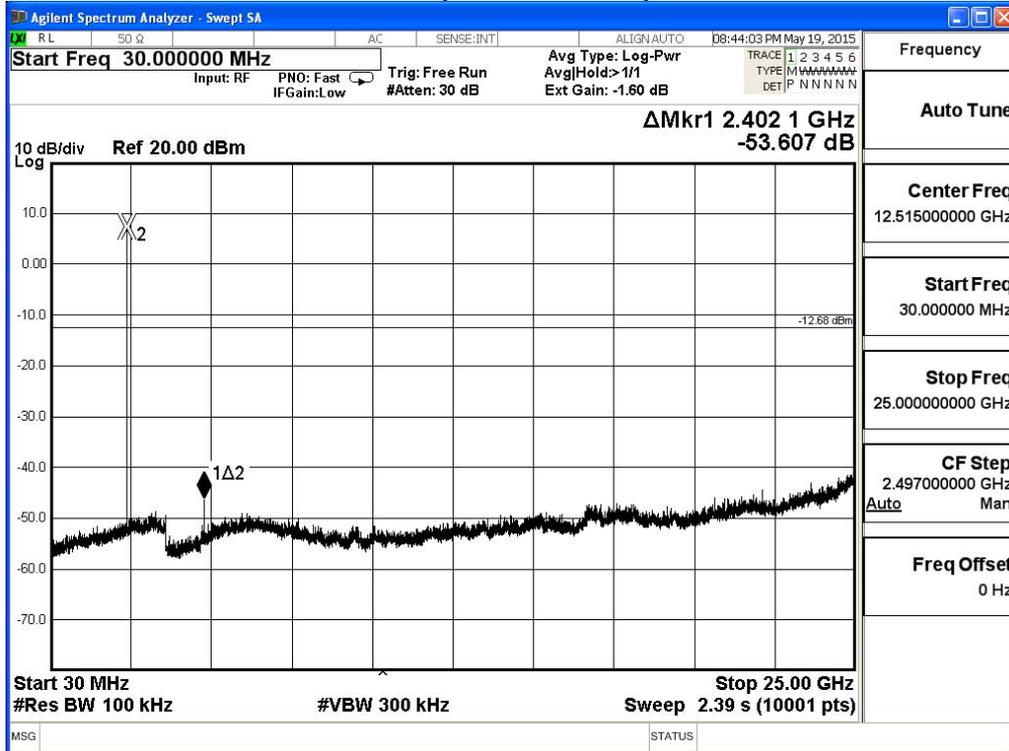


Channel 39

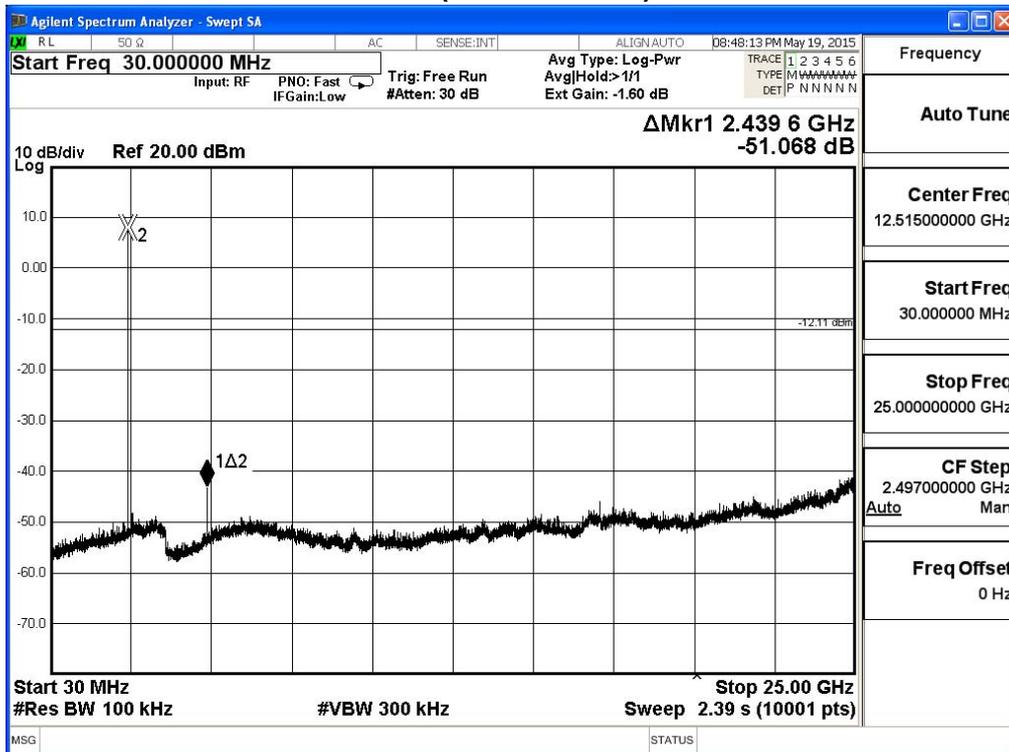


Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Tx-AD891M21		
Date of Test	2015/05/20	Test Site	SR7

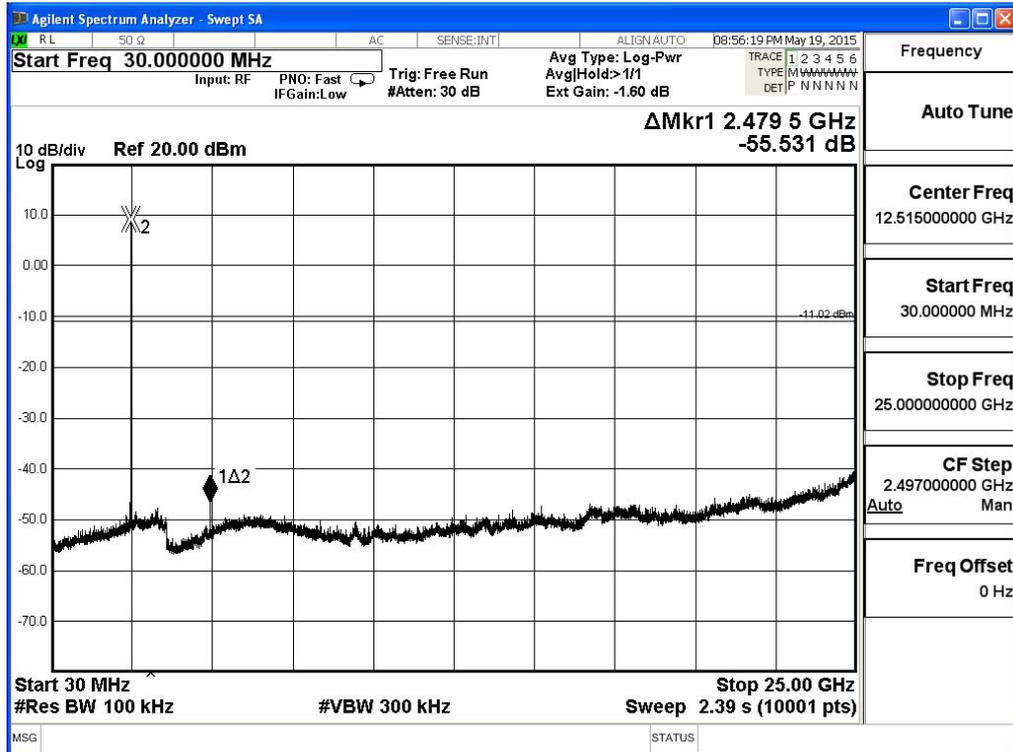
Channel 00 (30MHz-25GHz)- GFSK



Channel 19 (30MHz-25GHz)- GFSK



Channel 39 (30MHz-25GHz)- GFSK



6. Band Edge

6.1. Test Equipment

The following test equipments are used during the test:

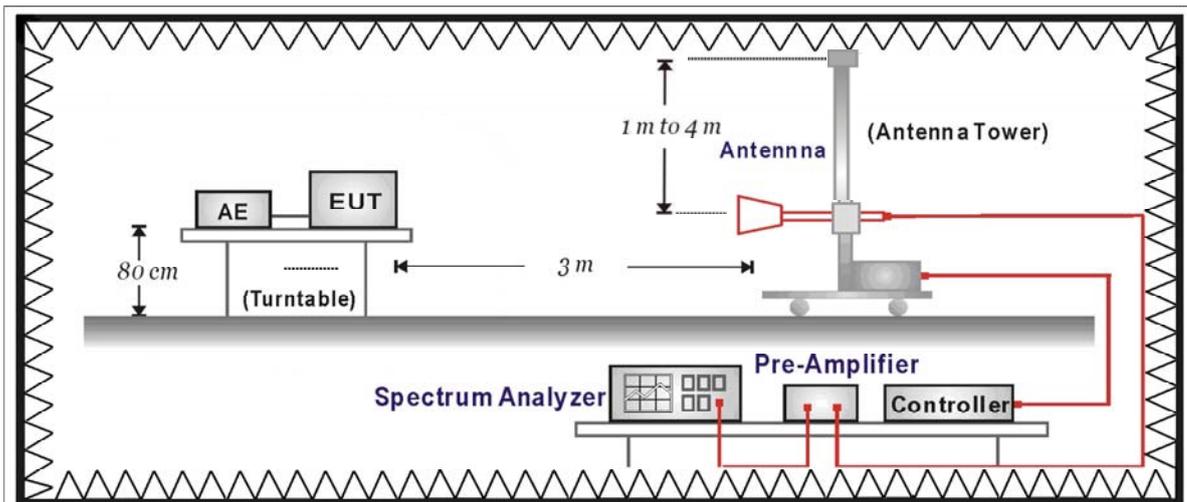
Band Edge / CB1

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Double Ridged Guide Horn Antenna	Schwarzback	BBHA 9120	D743	2016/01/26
Spectrum Analyzer	Agilent	E4440A	MY46187335	2016/01/07
k Type Cable	Huber Suhner	Sucoflex 102	25623/2	2016/01/26

Note: 1. All equipments 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 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.

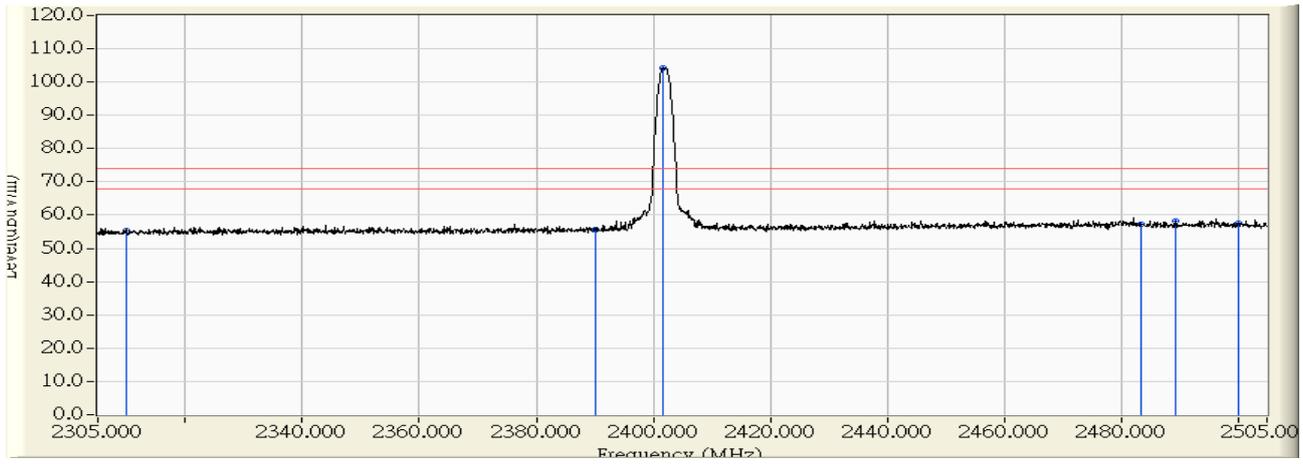
Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10 on radiated measurement.

6.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247

6.6. Test Result

Site : CB1	Time : 2015/05/12 - 20:42
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V/60Hz
EUT : ASUS SRT-AC1900 Wireless Smart Router	Note : Mode 1: Tx-AD891M21 BLE_2402MHz

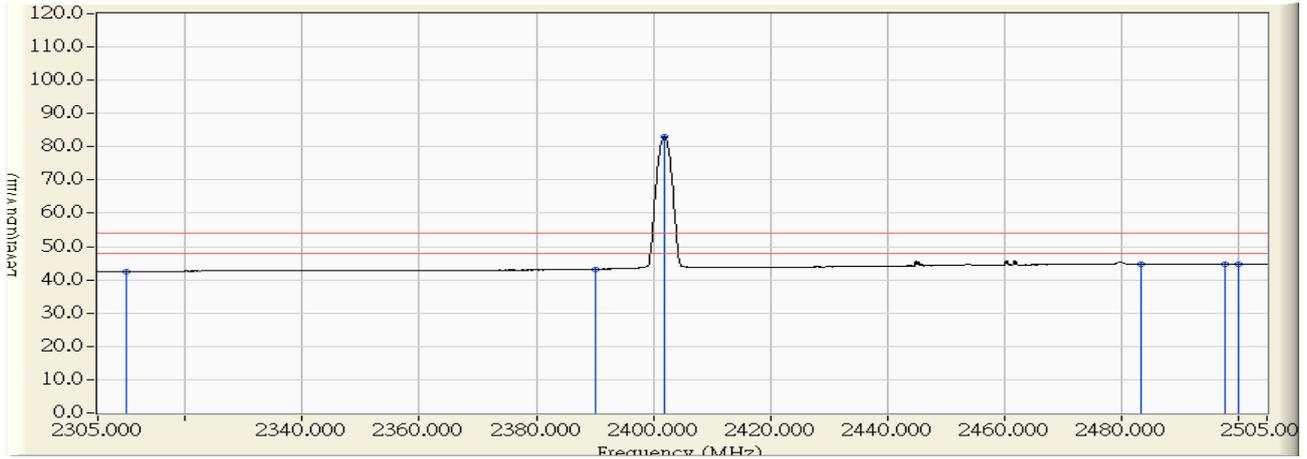


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	28.899	26.380	55.278	-18.722	74.000	PEAK
2	2390.000	29.768	26.020	55.788	-18.212	74.000	PEAK
3	* 2401.652	29.895	74.264	104.159	30.159	74.000	PEAK
4	2483.500	30.738	26.542	57.281	-16.719	74.000	PEAK
5	2489.308	30.743	27.544	58.287	-15.713	74.000	PEAK
6	2500.000	30.740	26.826	57.565	-16.435	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 : CB1	Time : 2015/05/12 - 20:45
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V/60Hz
EUT : ASUS SRT-AC1900 Wireless Smart Router	Note : Mode 1: Tx-AD891M21 BLE_2402MHz

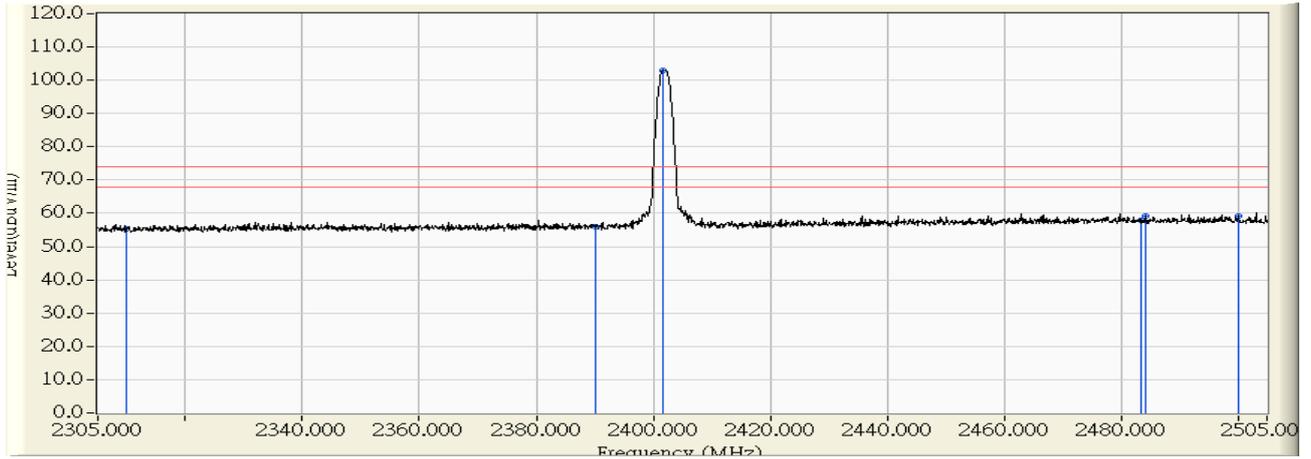


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	28.899	13.607	42.505	-11.495	54.000	AVERAGE
2	2390.000	29.768	13.403	43.171	-10.829	54.000	AVERAGE
3	* 2401.852	29.897	53.063	82.960	28.960	54.000	AVERAGE
4	2483.500	30.738	14.027	44.766	-9.234	54.000	AVERAGE
5	2497.704	30.744	14.044	44.788	-9.212	54.000	AVERAGE
6	2500.000	30.740	13.976	44.715	-9.285	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.

ite : CB1	Time : 2015/05/12 - 20:50
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V/60Hz
EUT : ASUS SRT-AC1900 Wireless Smart Router	Note : Mode 1: Tx-AD891M21 BLE_2402MHz

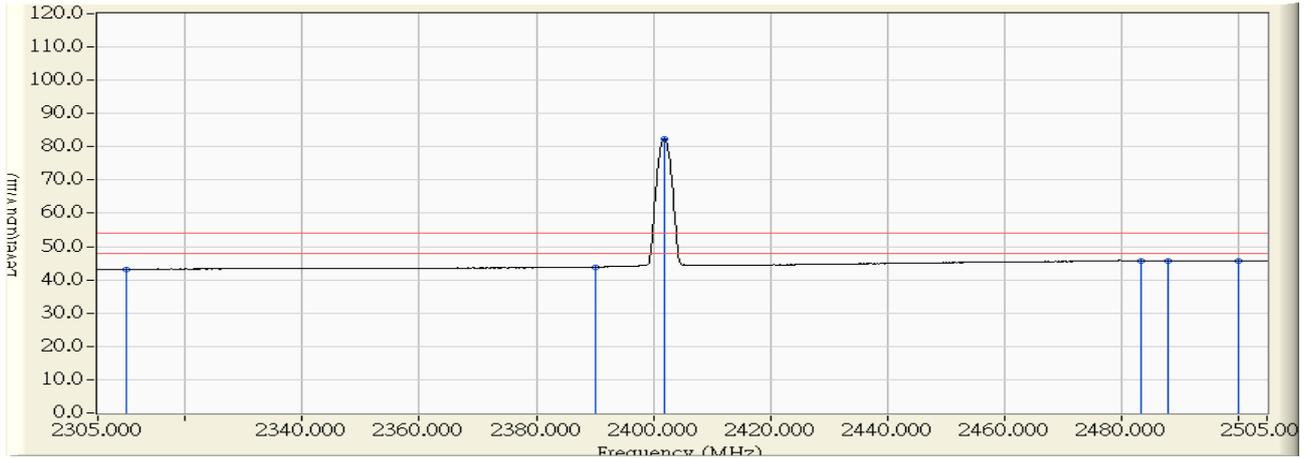


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.553	25.649	55.201	-18.799	74.000	PEAK
2	2390.000	30.582	25.542	56.124	-17.876	74.000	PEAK
3	* 2401.752	30.733	72.179	102.912	28.912	74.000	PEAK
4	2483.500	31.739	26.252	57.992	-16.008	74.000	PEAK
5	2484.310	31.742	27.598	59.340	-14.660	74.000	PEAK
6	2500.000	31.774	27.491	59.264	-14.736	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 : CB1	Time : 2015/05/12 - 20:51
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V/60Hz
EUT : ASUS SRT-AC1900 Wireless Smart Router	Note : Mode 1: Tx-AD891M21 BLE_2402MHz

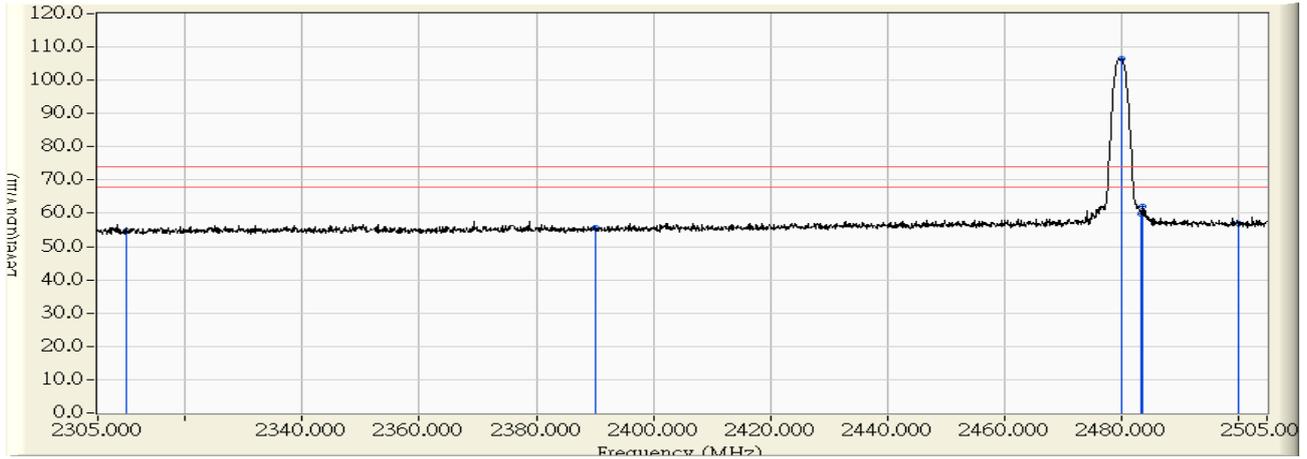


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.553	13.652	43.204	-10.796	54.000	AVERAGE
2	2390.000	30.582	13.251	43.833	-10.167	54.000	AVERAGE
3	* 2401.852	30.735	51.633	82.368	28.368	54.000	AVERAGE
4	2483.500	31.739	13.941	45.681	-8.319	54.000	AVERAGE
5	2488.108	31.753	14.037	45.790	-8.210	54.000	AVERAGE
6	2500.000	31.774	13.861	45.634	-8.366	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 : CB1	Time : 2015/05/12 - 20:56
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V/60Hz
EUT : ASUS SRT-AC1900 Wireless Smart Router	Note : Mode 1: Tx-AD891M21 BLE_2480MHz

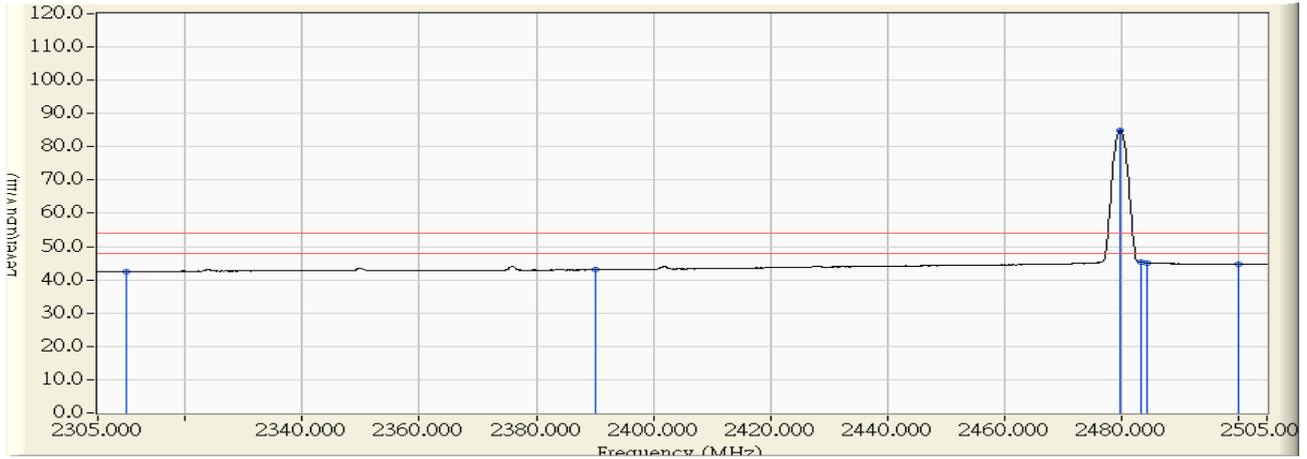


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	28.899	25.871	54.769	-19.231	74.000	PEAK
2	2390.000	29.768	25.984	55.752	-18.248	74.000	PEAK
3	* 2480.112	30.736	75.657	106.393	32.393	74.000	PEAK
4	2483.500	30.738	29.088	59.827	-14.173	74.000	PEAK
5	2483.811	30.740	31.210	61.949	-12.051	74.000	PEAK
6	2500.000	30.740	26.164	56.903	-17.097	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 : CB1	Time : 2015/05/12 - 20:56
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120V/60Hz
EUT : ASUS SRT-AC1900 Wireless Smart Router	Note : Mode 1: Tx-AD891M21 BLE_2480MHz

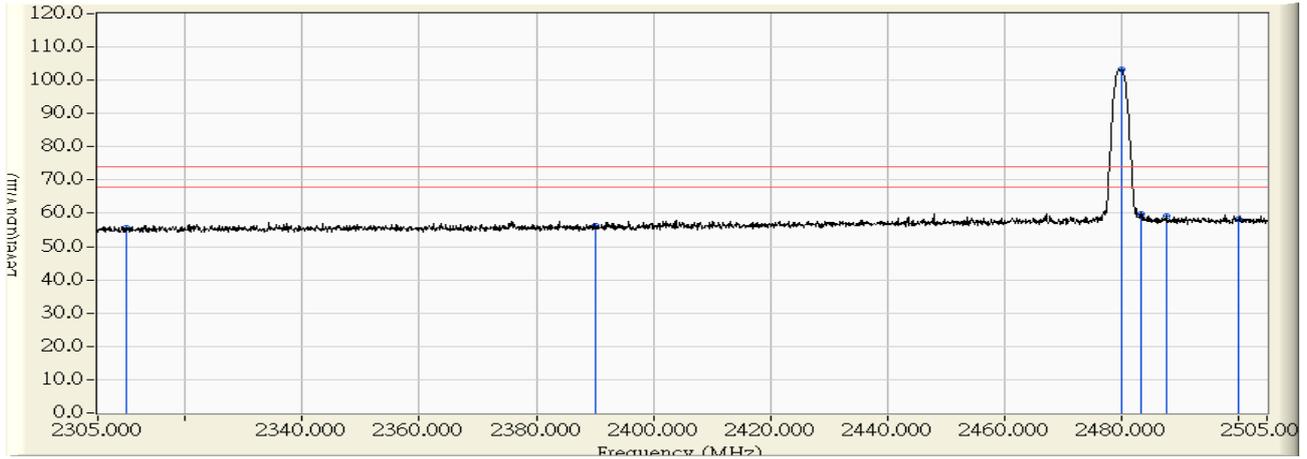


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	28.899	13.612	42.510	-11.490	54.000	AVERAGE
2	2390.000	29.768	13.241	43.009	-10.991	54.000	AVERAGE
3	* 2479.813	30.736	54.170	84.906	30.906	54.000	AVERAGE
4	2483.500	30.738	14.541	45.280	-8.720	54.000	AVERAGE
5	2484.510	30.740	14.430	45.170	-8.830	54.000	AVERAGE
6	2500.000	30.740	13.994	44.733	-9.267	54.000	AVERAGE

Note:

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

Site : CB1	Time : 2015/05/12 - 20:59
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V/60Hz
EUT : ASUS SRT-AC1900 Wireless Smart Router	Note : Mode 1: Tx-AD891M21 BLE_2480MHz

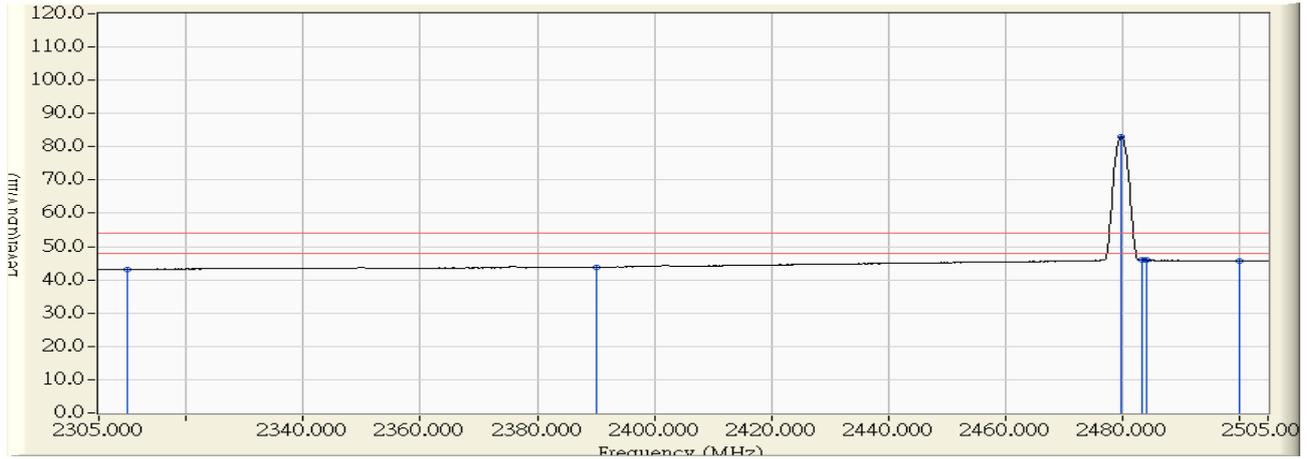


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.553	26.174	55.726	-18.274	74.000	PEAK
2	2390.000	30.582	25.719	56.301	-17.699	74.000	PEAK
3	* 2480.112	31.730	71.484	103.215	29.215	74.000	PEAK
4	2483.500	31.739	28.220	59.960	-14.040	74.000	PEAK
5	2487.809	31.751	27.542	59.294	-14.706	74.000	PEAK
6	2500.000	31.774	26.407	58.180	-15.820	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 : CB1	Time : 2015/05/12 - 21:00
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120V/60Hz
EUT : ASUS SRT-AC1900 Wireless Smart Router	Note : Mode 1: Tx-AD891M21 BLE_2480MHz



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.553	13.619	43.171	-10.829	54.000	AVERAGE
2	2390.000	30.582	13.270	43.852	-10.148	54.000	AVERAGE
3	* 2479.813	31.730	51.388	83.118	29.118	54.000	AVERAGE
4	2483.500	31.739	14.167	45.907	-8.093	54.000	AVERAGE
5	2484.110	31.742	14.205	45.947	-8.053	54.000	AVERAGE
6	2500.000	31.774	14.016	45.789	-8.211	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

7.1. Test Equipment

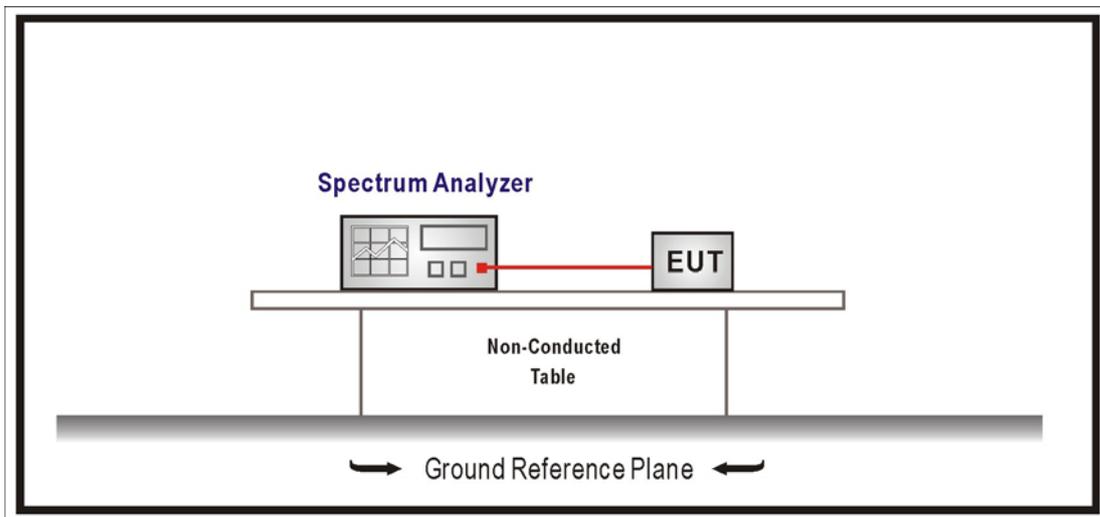
The following test equipment is used during the test:

Occupied Bandwidth / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2015/07/14

Note: 1. All equipments 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; 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

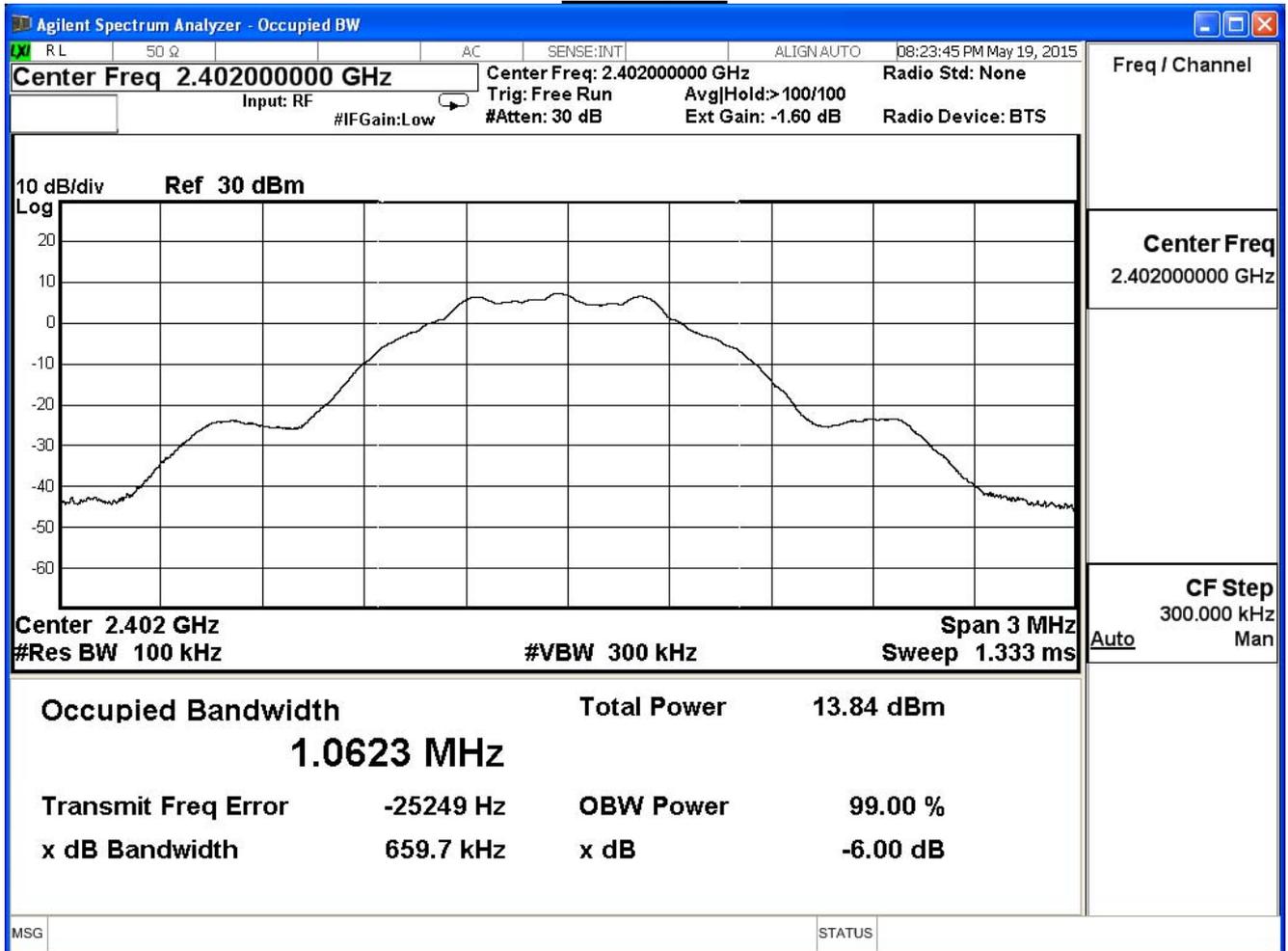
7.6. Test Result

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Tx-AD891M21		
Date of Test	2015/05/20	Test Site	SR7

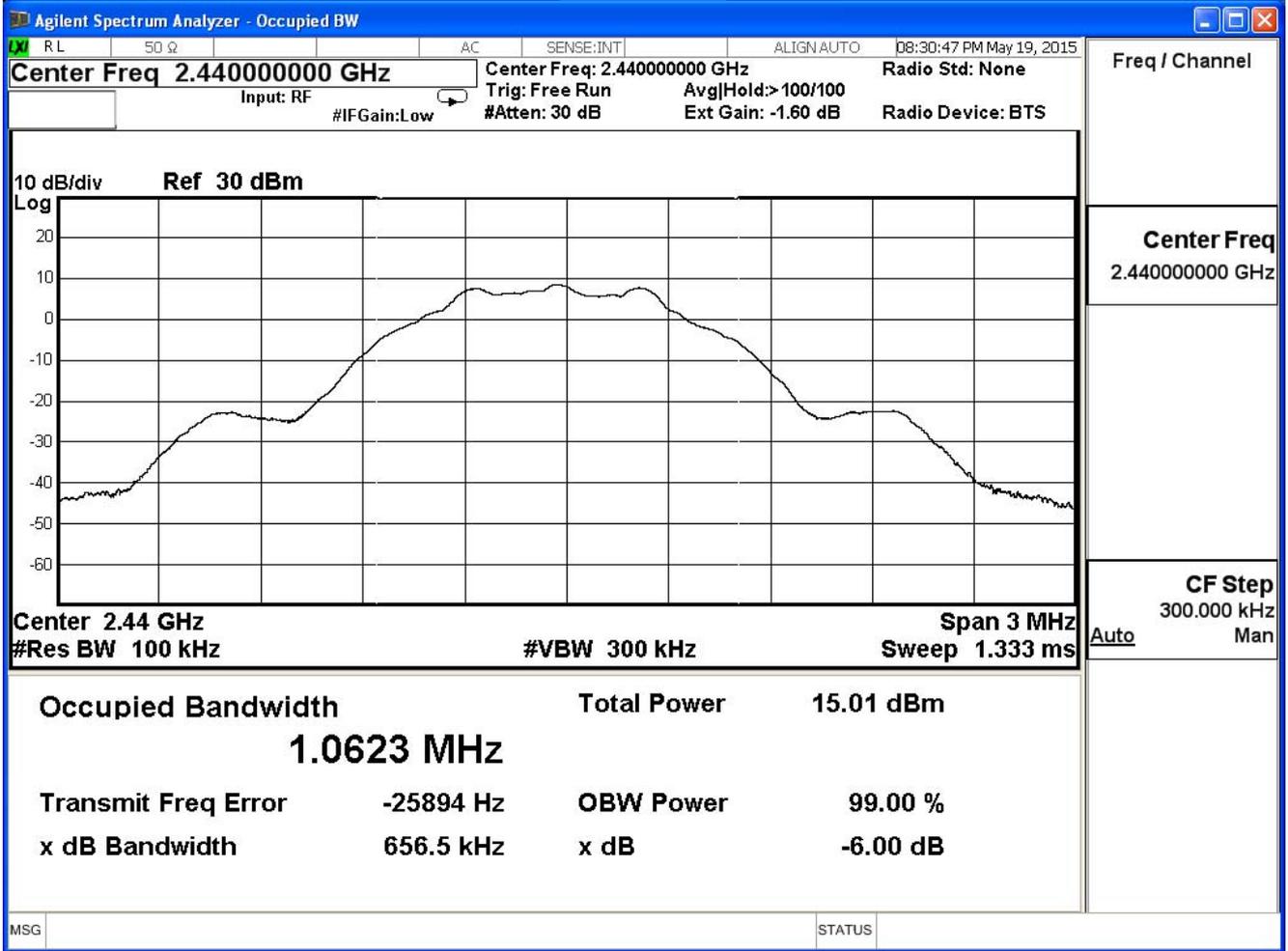
GFSK

Channel No.	Frequency (MHz)	Measure Level (KHz)	Limit (MHz)	Result
00	2402	659.70	≥ 0.5	Pass
19	2440	656.50	≥ 0.5	Pass
39	2480	656.90	≥ 0.5	Pass

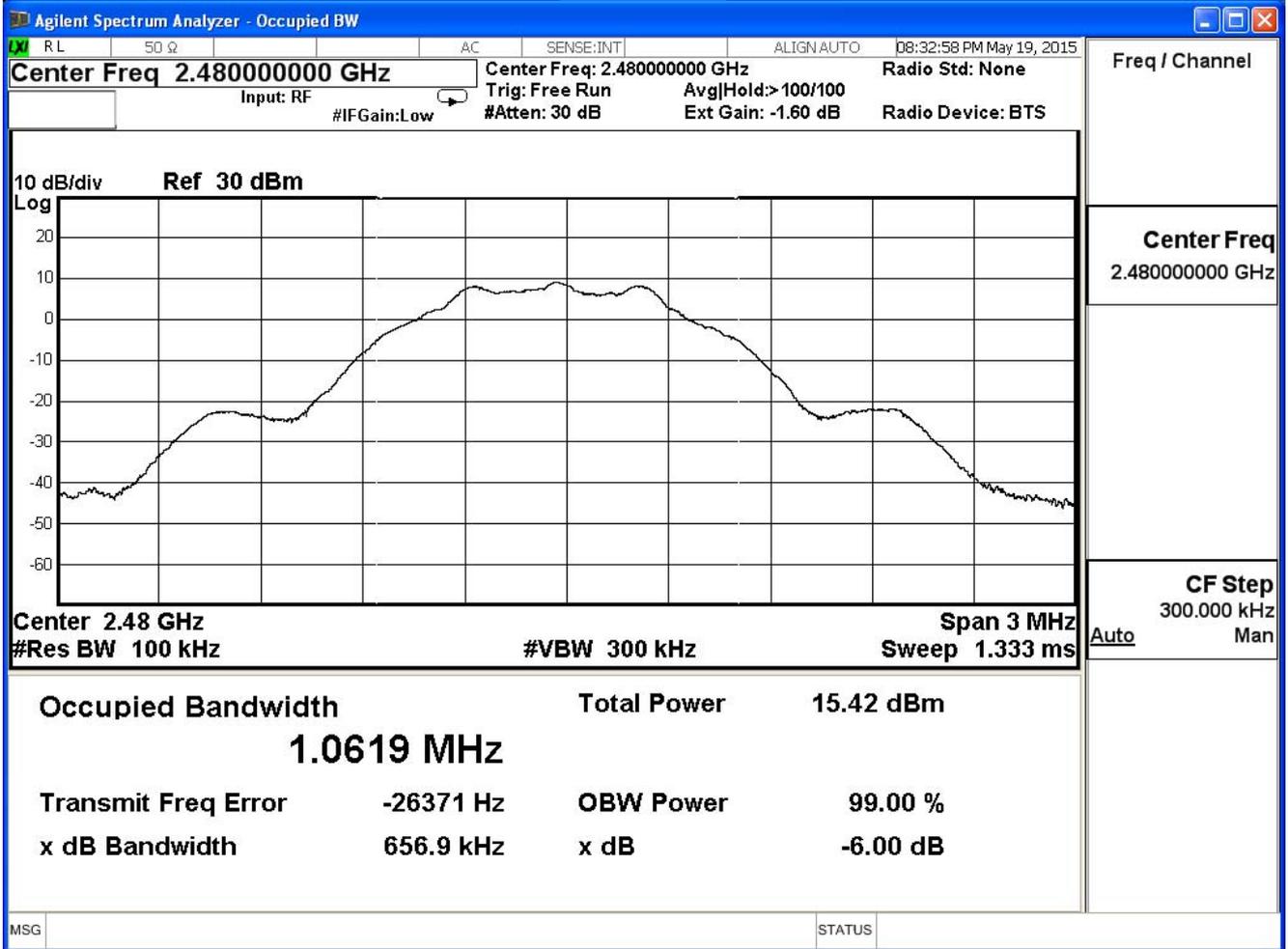
Channel 00



Channel 19



Channel 39



8. Power Density

8.1. Test Equipment

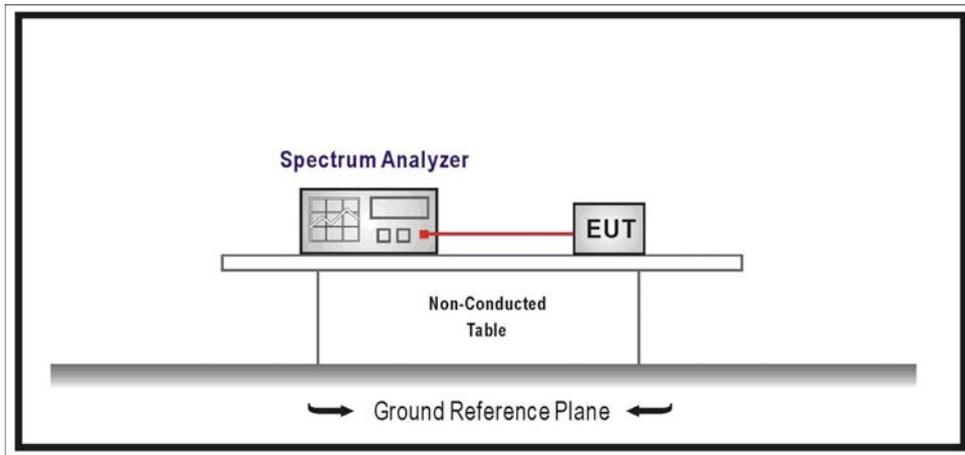
The following test equipment is used during the test:

Power Density / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2015/07/14

Note: 1. All equipments 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; 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	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Power Density		
Test Mode	Mode 1: Tx-AD891M21		
Date of Test	2015/05/20	Test Site	SR7

Channel No.	Frequency (MHz)	Measure Level(dBm)	Limit (dBm)	Result
0	2402	0.506	≤ 8	Pass
19	2440	1.794	≤ 8	Pass
39	2480	2.228	≤ 8	Pass

Channel 00

