

APPLICATION CERTIFICATION FCC Part 15.249 & RSS-247
On Behalf of
Edifier International Limited.

B8 Soundbar Active Speaker system
Model No.: B8 Soundbar

FCC ID: Z9G-EDF75
IC: 10004A-EDF75

Prepared for : Edifier International Limited.
Address : P.O. Box 6264, General Post Office, Hong Kong

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Test Report Certification

Applicant : Edifier International Limited
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Manufacturer : Beijing Edifier Technology Co., Ltd.
Address : 8th floor, ZuoAn Building, NO.68 BeiSiHuanXiLu, Haidian District, Beijing 100080, CHINA
Factory : Dongguan Edifier Technology Co., Ltd.
Address : No.2 Gongyedong Road, Songshan Lake Sci&Tech Industry Park, Dongguan, Guangdong 523808, PR.China
Product : B8 Soundbar Active Speaker system
Model No. : B8 Soundbar

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.249

ANSI C63.10: 2013

RSS-247 Issue 2 February 2017

RSS-Gen Issue 5 April 2018

The device described above is tested by Shenzhen Accurate Technology Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C Section 15.249 and RSS-247 limits. The measurement results are contained in this test report and Shenzhen Accurate Technology Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC and IC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Shenzhen Accurate Technology Co., Ltd.

Date of Test : June 21-July 12, 2019

Date of Report : July 12, 2019

Prepared by :

(Star Yang, Engineer)

Approved & Authorized Signer :

(Sean Liu, Manager)

Shenzhen Accurate Technology Co., Ltd.

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1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	:	B8 Soundbar Active Speaker system
Model No.	:	B8 Soundbar
HVIN	:	B8
Operate Frequency	:	5725MHz ~ 5875MHz
Number of channel	:	25
Channel Frequency	:	5731, 5733, 5737, 5739, 5743, 5747, 5751, 5753, 5757, 5761, 5767, 5771, 5773, 5777, 5781, 5787, 5791, 5793, 5797, 5801, 5807, 5811, 5813, 5817, 5820MHz
Modulation mode	:	FSK
Antenna gain	:	1.57dBi
Directional gain (G_{TX})	:	1.57dBi
Antenna type	:	Integral Antenna
Power Supply	:	AC 100-240V ~ 50/60Hz 450mA

Remark: The antennas of 5.8GHz only support SISO model, and the RF characteristics are identical, both of them were performed and worst case were recorded.

1.2. Special Accessory and Auxiliary Equipment

N/A

1.3. Description of Test Facility

EMC Lab	: Recognition of accreditation by Federal Communications Commission (FCC) The Designation Number is CN1189 The Registration Number is 708358 Listed by Innovation, Science and Economic Development Canada (ISED) The Registration Number is 5077A-2 Accredited by China National Accreditation Service for Conformity Assessment (CNAS) The Registration Number is CNAS L3193 Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 4297.01
Name of Firm	: Shenzhen Accurate Technology Co., Ltd.
Site Location	: 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China

1.4. Measurement Uncertainty

Radiated Emission Expanded Uncertainty (9kHz-30MHz)	: U=2.66dB, k=2
Radiated Emission Expanded Uncertainty (30MHz-1000MHz)	: U=4.28dB, k=2
Radiated Emission Expanded Uncertainty (1G-18GHz)	: U=4.98dB, k=2
Radiated Emission Expanded Uncertainty (18G-26.5GHz)	: U=5.06dB, k=2
Conduction Emission Expanded Uncertainty (Mains ports, 9kHz-30MHz)	: U=2.72dB, k=2

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

Kind of equipment	Manufacturer	Type	S/N	Calibrated dates	Cal. Interval
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 05, 2019	One Year
EMI Test Receiver	Rohde&Schwarz	ESR	101817	Jan. 05, 2019	One Year
Spectrum Analyzer	Rohde&Schwarz	FSV-40	101495	Jan. 05, 2019	One Year
Pre-Amplifier	Compliance Direction	RSU-M2	38322	Jan. 05, 2019	One Year
Pre-Amplifier	Agilent	8447D	294A10619	Jan. 05, 2019	One Year
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 05, 2019	One Year
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 05, 2019	One Year
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 05, 2019	One Year
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 05, 2019	One Year
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 05, 2019	One Year
Highpass Filter	Wainwright Instruments	WHKX3.6/18 G-10SS	N/A	Jan. 05, 2019	One Year
Band Reject Filter	Wainwright Instruments	WRCG2400/2 485-2375/2510 -60/11SS	N/A	Jan. 05, 2019	One Year
RF Coaxial Cable (Conducted Emission)	SUHNER	N-2m	No.2	Jan. 05, 2019	One Year
RF Coaxial Cable (Radiated Emission)	RESENBERGER	N-12m	No.11	Jan. 05, 2019	One Year
RF Coaxial Cable (Radiated Emission)	RESENBERGER	N-0.5m	No.12	Jan. 05, 2019	One Year
RF Coaxial Cable (Radiated Emission)	SUHNER	N-2m	No.13	Jan. 05, 2019	One Year
RF Coaxial Cable (Radiated Emission)	SUHNER	N-0.5m	No.15	Jan. 05, 2019	One Year
RF Coaxial Cable (Radiated Emission)	SUHNER	N-2m	No.16	Jan. 05, 2019	One Year
RF Coaxial Cable (Radiated Emission)	RESENBERGER	N-6m	No.17	Jan. 05, 2019	One Year
Conducted Emission Measurement Software: ES-K1 V1.71					
Radiated Emission Measurement Software: EZ EMC V1.1.4.2					

3. OPERATION OF EUT DURING TESTING

3.1. Operating Mode

The mode is used: **Transmitting mode**

Low Channel: 5731MHz

Middle Channel: 5773MHz

High Channel: 5820MHz

3.2. Configuration and peripherals

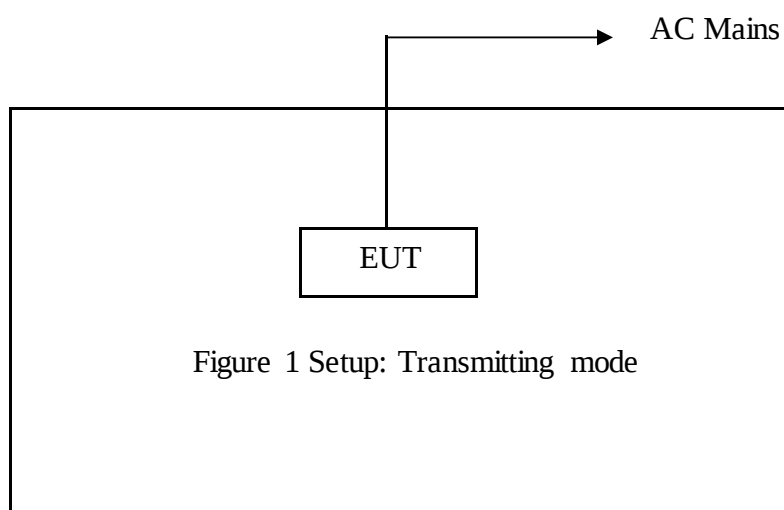


Figure 1 Setup: Transmitting mode

4. TEST PROCEDURES AND RESULTS

FCC & IC Rules	Description of Test	Result
FCC Section 15.249(a) RSS-247 Section 6.2.4.1	Maximum Output Power Test	Compliant
RSS-247 Section 6.2.4.1	Power Spectral Density Test	Compliant
RSS-247 Section 6.2.4.1	6dB Bandwidth Test	Compliant
FCC Section 15.215(c)	20dB Bandwidth Test	Compliant
RSS-Gen Section 6.7	99% Bandwidth Test	Compliant
RSS-247 Section 6.2.4.2	Unwanted emission Test	Compliant
FCC Section 15.205 RSS-Gen Section 8.10	Band Edge Compliance Test	Compliant
FCC Section 15.205(a), FCC Section 15.209(a), FCC Section 15.249(a), FCC Section 15.35 RSS-Gen Section 6.13 RSS-Gen Section 8.9	Radiated Spurious Emission Test	Compliant
FCC Section 15.207 RSS-Gen Section 8.8	AC Power Line Conducted Emission Test	Compliant
FCC Section 15.203 RSS-Gen Section 6.8	Antenna Requirement	Compliant

5. MAXIMUM OUTPUT POWER TEST

5.1. The Requirement For FCC Section 15.249(a)

(a) Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902–928 MHz	50	500
2400–2483.5 MHz	50	500
5725–5875 MHz	50	500
24.0–24.25 GHz	250	2500

5.2. The Requirement For RSS-247 Section 6.2.4.1

The maximum conducted output power shall not exceed 1 W.

5.3. Test Result

FCC Result:

Frequency (MHz)	PEAK E.I.R.P (dBuV/m)	AVG E.I.R.P (dBuV/m)	PEAK Limits (dBuV/m)	AVG Limits (dBuV/m)	Result
5731	91.97	90.67	114	94	Pass
5773	91.01	89.81	114	94	Pass
5820	91.50	90.10	114	94	Pass

IC Result:

Frequency (MHz)	Peak Output Power (dBm)	E.I.R.P (dBm)	Limits (dBm)	Result
5731	3.53	5.10	30	Pass
5773	3.60	5.17	30	Pass
5820	3.62	5.19	30	Pass

6. POWER SPECTRAL DENSITY TEST

6.1. Block Diagram of Test Setup



6.2. The Requirement For RSS-247 Section 6.2.4.1

The output power spectral density shall not exceed 30 dBm in any 500 kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the output power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed point-to-point operations exclude the use of point-to-multipoint³ systems, omnidirectional applications and multiple collocated transmitters transmitting the same information.

6.3. EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

6.4. Operating Condition of EUT

6.4.1. Setup the EUT and simulator as shown as Section 6.1.

6.4.2. Turn on the power of all equipment.

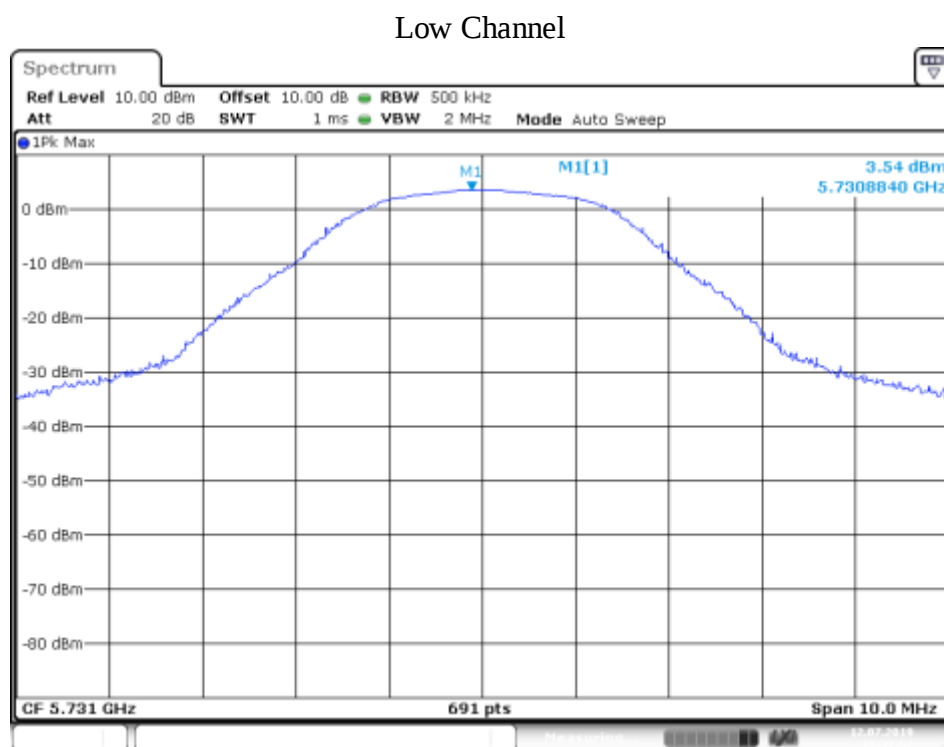
6.4.3. Let the EUT work in TX modes measure it. The transmit frequency is 5731, 5773, 5820MHz.

6.5. Test Result

Channel	Frequency (MHz)	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Result
Low	5731	3.54	30	Pass
Middle	5773	3.59	30	Pass
High	5820	3.55	30	Pass

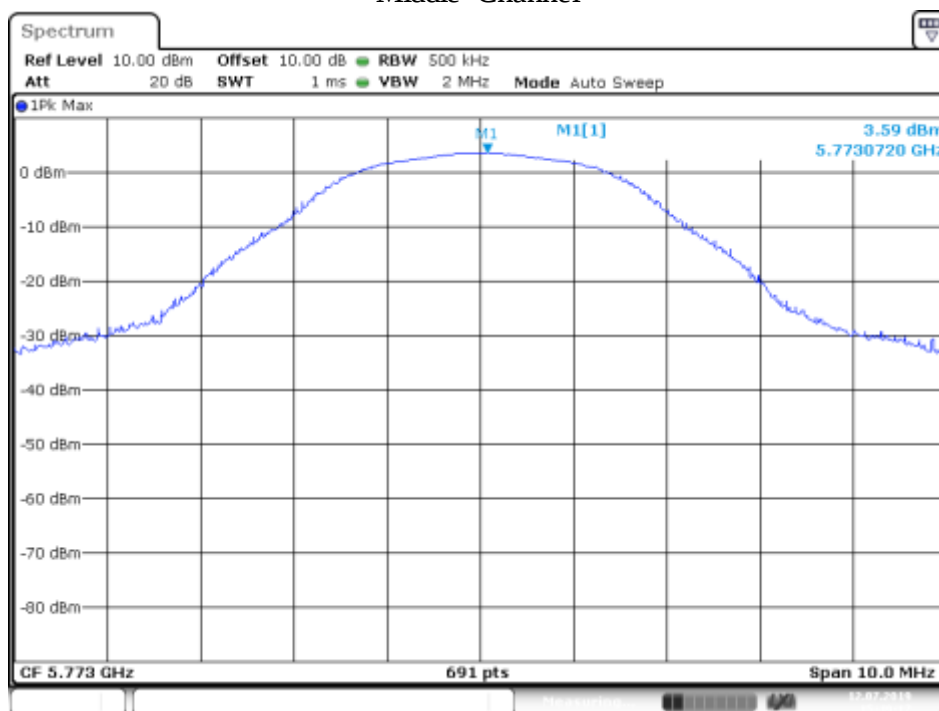
Directional gain > 6dBi

The spectrum analyzer plots are attached as below.



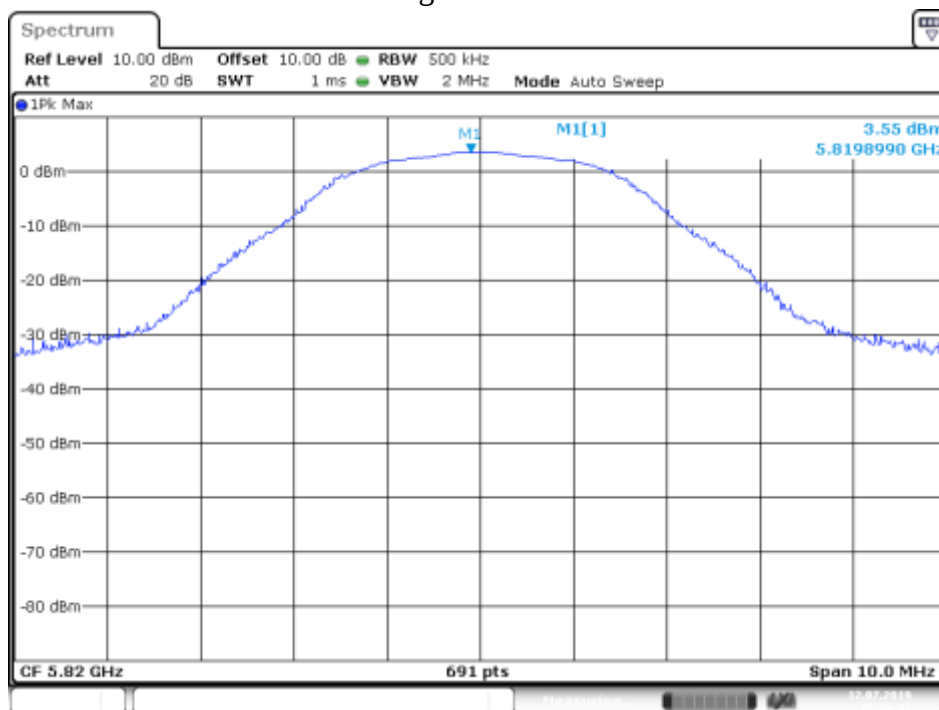
Date: 12.JUL.2019 15:47:52

Middle Channel



Date: 12.JUL.2019 15:49:17

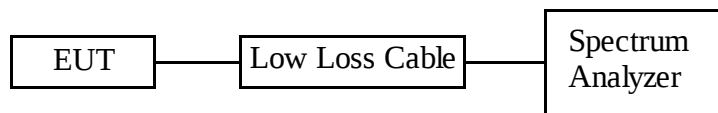
High Channel



Date: 12.JUL.2019 15:50:43

7. 6DB BANDWIDTH TEST

7.1. Block Diagram of Test Setup



7.2. The Requirement For RSS-247 Section 5.2(a)

For equipment operating in the band 5725-5850 MHz, the minimum 6 dB bandwidth shall be at least 500 kHz

7.3. EUT Configuration on Measurement

The equipment is installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

7.4. Operating Condition of EUT

7.4.1. Setup the EUT and simulator as shown as Section 7.1.

7.4.2. Turn on the power of all equipment.

7.4.3. Let the EUT work in TX modes measure it. The transmit frequency is 5731, 5773, 5820MHz.

7.5. Test Procedure

7.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

7.5.2. Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz.

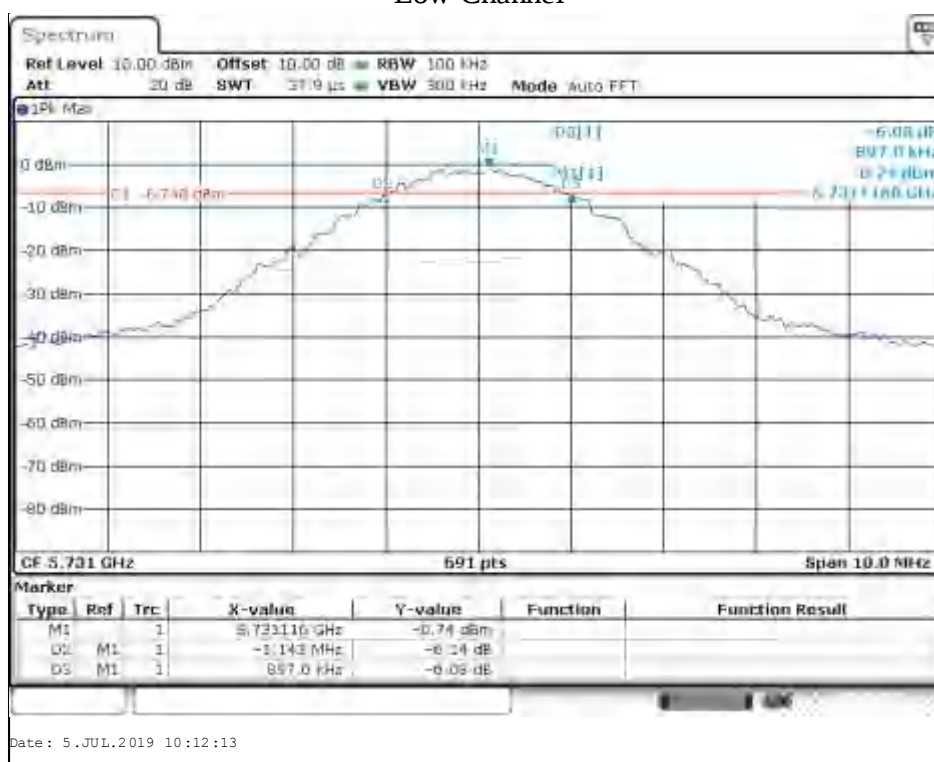
7.5.3. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

7.6. Test Result

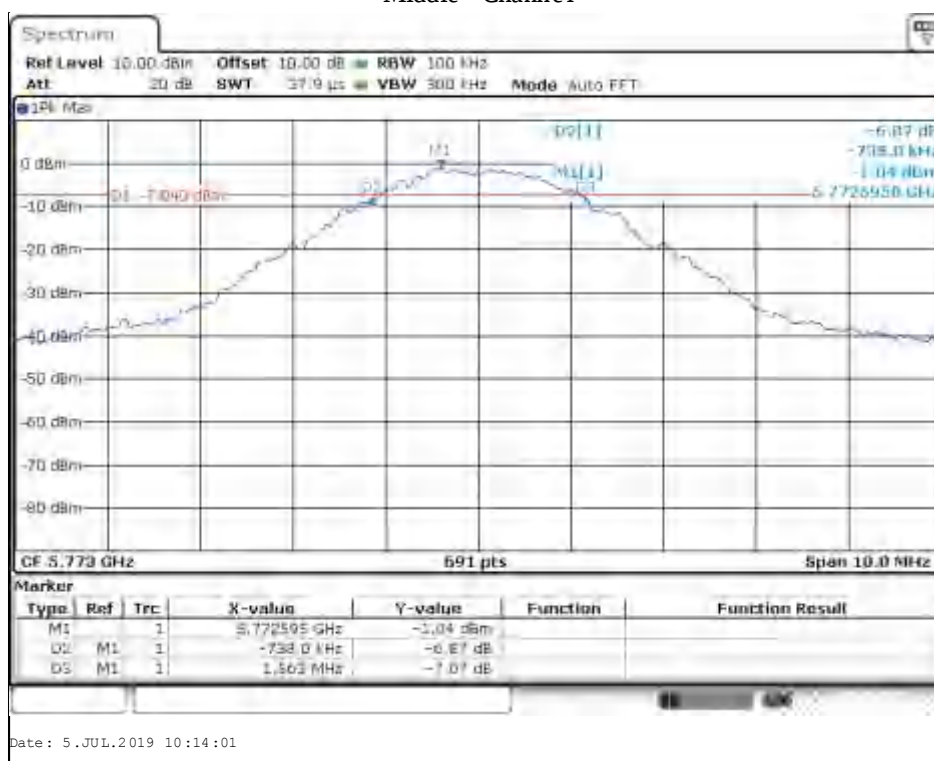
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit(MHz)	Result
Low	5731	2.040	>0.5	Pass
Middle	5773	2.301	>0.5	Pass
High	5820	2.358	>0.5	Pass

The spectrum analyzer plots are attached as below.

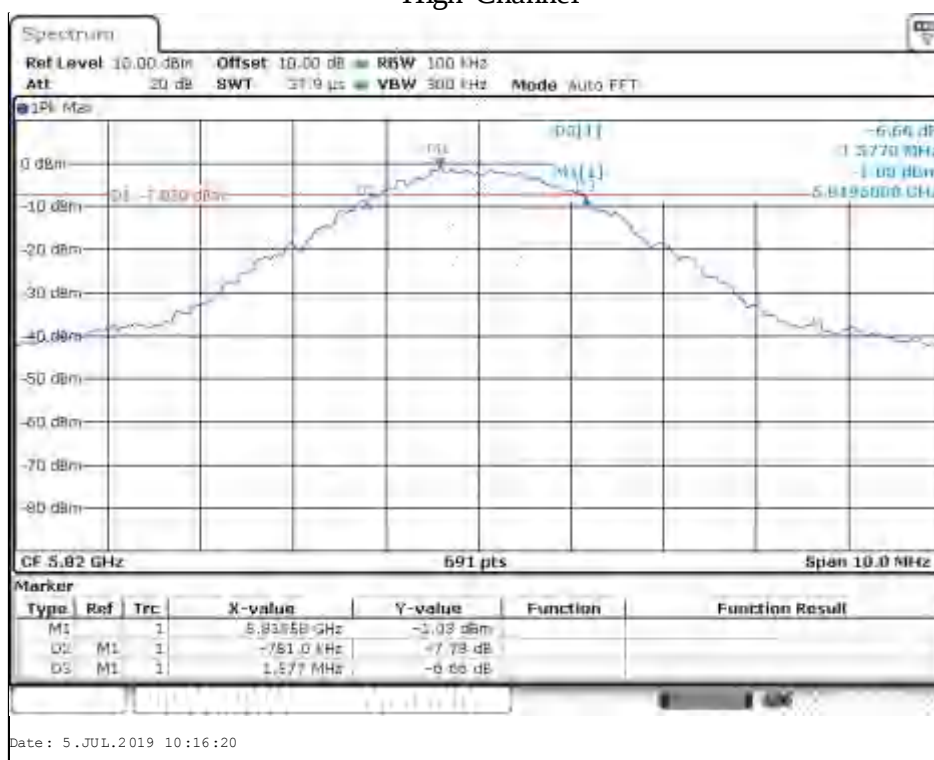
Low Channel



Middle Channel

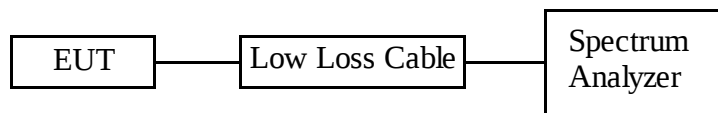


High Channel



8. 20DB BANDWIDTH TEST

8.1. Block Diagram of Test Setup



8.2. The Requirement For Section 15.215(c)

Must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

8.3. Operating Condition of EUT

8.3.1. Setup the EUT and simulator as shown as Section 8.1.

8.3.2. Turn on the power of all equipment.

8.3.3. Let the EUT work in TX modes measure it. The transmit frequency is 5731, 5773, 5820MHz.

8.4. Test Procedure

8.4.1. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

8.4.2. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.

8.4.3. RBW shall be in the range of 1% to 5% of the OBW and VBW shall be approximately three times RBW.

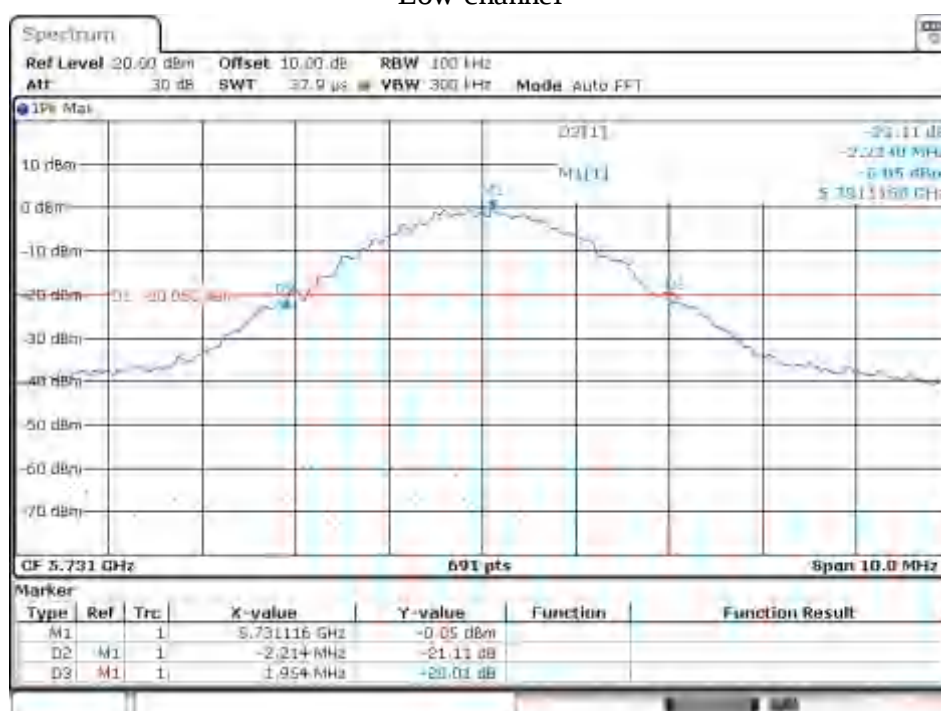
8.4.4. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

8.5. Test Result

Channel	Frequency(MHz)	20 dB Bandwidth(MHz)
Low	5731	4.168
Middle	5773	4.588
High	5820	4.530

The spectrum analyzer plots are attached as below.

Low channel



Date : 27.JUN.2019 15:45:03

Middle channel



Date: 27.JUN.2019 15:50:48

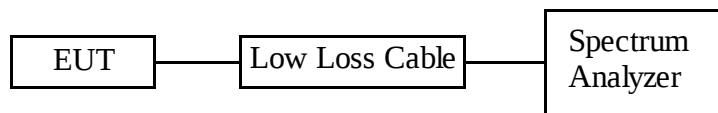
High channel



Date: 27.JUN.2019 15:52:35

9. 99% OCCUPIED BANDWIDTH TEST

9.1. Block Diagram of Test Setup



9.2. The Requirement For RSS- Gen Clause 6.7

The occupied bandwidth or the “99% emission bandwidth” is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.

In some cases, the “x dB bandwidth” is required, which is defined as the frequency range between two points, one at the lowest frequency below and one at the highest frequency above the carrier frequency, at which the maximum power level of the transmitted emission is attenuated x dB below the maximum in-band power level of the modulated signal, where the two points are on the outskirts of the in-band emission.

9.3. Operating Condition of EUT

9.3.1. Setup the EUT and simulator as shown as Section 9.1.

9.3.2. Turn on the power of all equipment.

9.3.3. Let the EUT work in TX modes measure it. The transmit frequency is 5731, 5773, 5820MHz.

9.4. Test Procedure

- 9.4.1. The transmitter shall be operated at its maximum carrier power measured under normal test conditions. The transmitter output was connected to the spectrum analyzer through a low loss cable.
- 9.4.2. The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.
- 9.4.3. The detector of the spectrum analyzer shall be set to “Sample”. However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or “Max Hold”) may be necessary to determine the occupied / x dB bandwidth if the device is not transmitting continuously.
- 9.4.4. The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.

9.5. Test Result

Channel	Frequency(MHz)	99% Bandwidth (MHz)
Low	5731	3.488
Middle	5773	3.705
High	5820	3.777

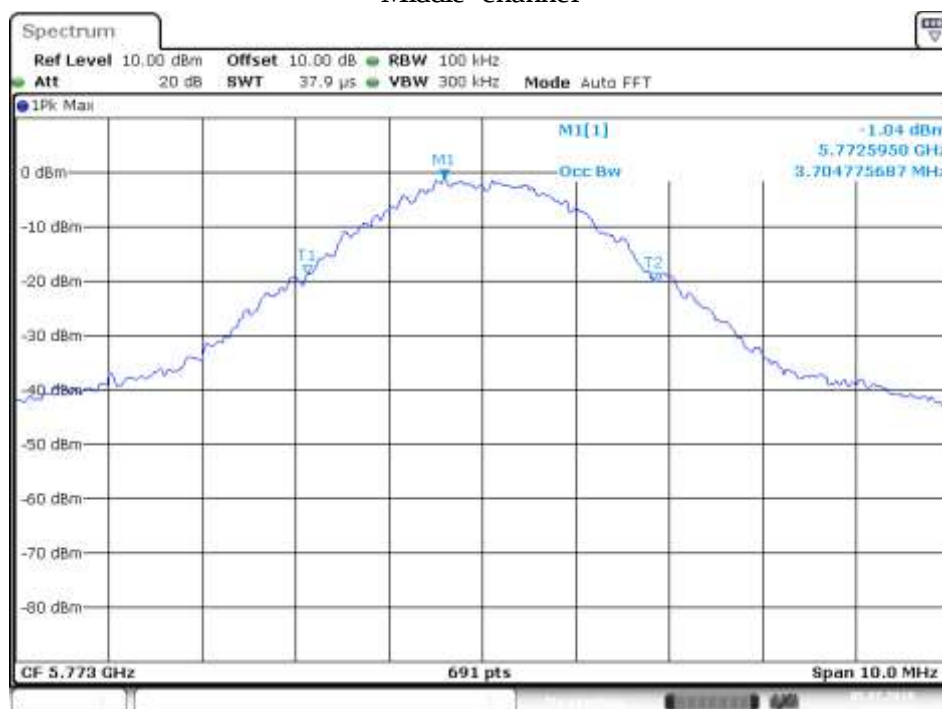
The spectrum analyzer plots are attached as below.

Low channel



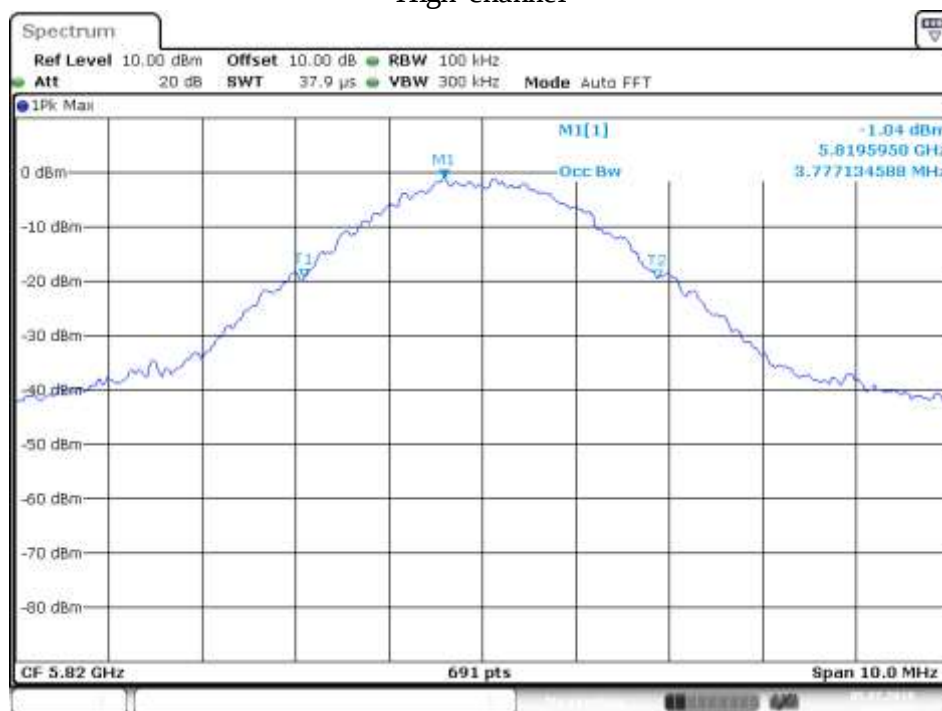
Date: 5 JUL 2019 10:20:59

Middle channel



Date: 5 JUL 2019 10:19:41

High channel



Date: 5 JUL 2019 10:18:28

10.UNWANTED EMISSION TEST

10.1. Block Diagram of Test Setup



10.2. The Requirement For RSS-247 Section 6.2.4.2

Devices operating in the band 5725-5850 MHz shall have e.i.r.p. of unwanted emissions comply with the following:

- a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges;
- b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges;
- c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and
- d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.

10.3. Operating Condition of EUT

10.3.1.Setup the EUT and simulator as shown as Section 10.1.

10.3.2.Turn on the power of all equipment.

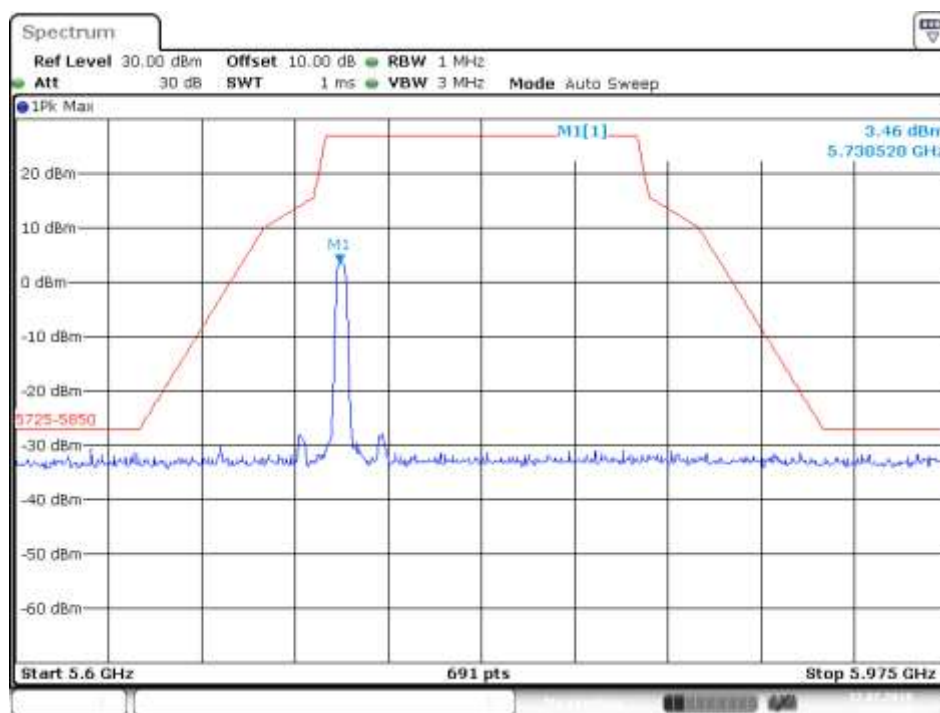
10.3.3.Let the EUT work in TX modes measure it. The transmit frequency are 5731MHz and 5820MHz.

10.4. Test Result

Pass

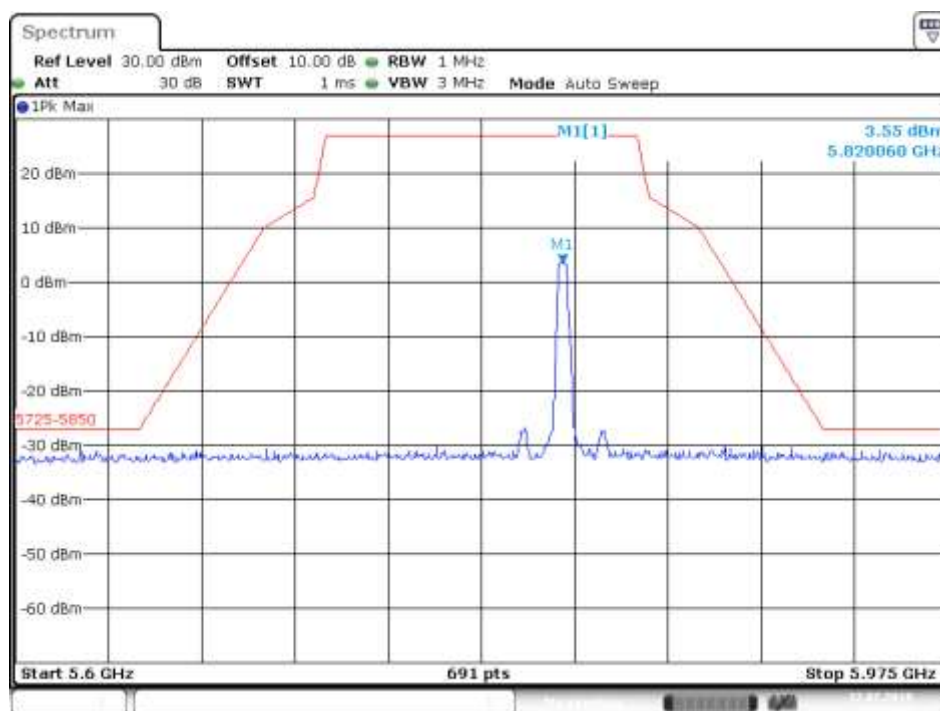
The spectrum analyzer plots are attached as below.

Low Channel



Date: 12.JUL.2019 15:59:58

High Channel



Date: 12.JUL.2019 15:59:17

11.BAND EDGE COMPLIANCE TEST

11.1. The Requirement For Section 15.205

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.

11.2. The Requirement For RSS-Gen Section 8.10

Emissions radiated outside of the specified frequency bands, except for harmonic emissions, shall be attenuated by at least 50 dB below the level of the fundamental emissions or to the general field strength limits listed in RSS-Gen, whichever is less stringent.

11.3. Restricted bands of operation

11.3.1. FCC Part 15.205 Restricted bands of operation

(a) Except as shown in paragraph (d) of this section, Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

¹Until February 1, 1999, this restricted band shall be 0.490-0.510

²Above 38.6

(b) Except as provided in paragraphs (d) and (e), the field strength of emission appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000MHz, Compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

11.3.2.RSS-Gen 8.10 Restricted bands of operation

Restricted frequency bands, identified in table 7, are designated primarily for safety-of-life services (distress calling and certain aeronautical activities), certain satellite downlinks, radio astronomy and some government uses. Except where otherwise indicated, the following conditions related to the restricted frequency bands apply:

- The transmit frequency, including fundamental components of modulation, of licence-exempt radio apparatus shall not fall within the restricted frequency bands listed in table 7 except for apparatus compliant with RSS-287, *Emergency Position Indicating Radio Beacons (EPIRB)*, *Emergency Locator Transmitters (ELT)*, *Personal Locator Beacons (PLB)*, and *Maritime Survivor Locator Devices (MSLD)*.
- Unwanted emissions that fall into restricted frequency bands listed in table 7 shall comply with the limits specified in table 5 and table 6.
- Unwanted emissions that fall into restricted frequency bands listed in table 7 shall comply with the limits specified in table 5 and table 6.

Table 7 – Restricted frequency bands*

MHz	MHz	GHz
0.000 – 0.110	149.9 – 150.05	9.0 – 9.2
0.495 – 0.505	156.52475 – 156.52525	9.3 – 9.5
2.1735 – 2.1905	156.7 – 156.9	10.6 – 12.7
3.020 – 3.026	162.0425 – 167.17	13.25 – 13.4
4.425 – 4.428	167.72 – 173.2	14.47 – 14.5
4.17725 – 4.17775	240 – 285	15.35 – 16.2
4.20725 – 4.20775	322 – 335.4	17.7 – 20.4
5.677 – 5.683	399.9 – 410	22.01 – 23.12
6.213 – 6.218	608 – 614	23.6 – 24.0
6.26775 – 6.26825	960 – 1427	31.2 – 31.8
6.31175 – 6.31225	1435 – 1626.5	36.43 – 36.5
8.291 – 8.294	1645.5 – 1646.5	Above 38.6
8.362 – 8.366	1660 – 1710	
8.37625 – 8.38675	1718.8 – 1722.2	
8.41425 – 8.41475	2200 – 2300	
12.29 – 12.295	2310 – 2390	
12.51975 – 12.52025	2483.5 – 2500	
12.57675 – 12.57725	2655 – 2900	
13.36 – 13.41	3260 – 3267	
16.42 – 16.423	3332 – 3339	
16.69475 – 16.69525	3343.8 – 3358	
16.80425 – 16.80475	3500 – 4400	
25.5 – 25.67	4500 – 5150	
37.5 – 38.25	5350 – 5460	
73 – 74.6	7250 – 7750	
74.8 – 75.2	8025 – 8500	
108 – 138	—	

* Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

11.4. EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

11.5. Operating Condition of EUT

11.5.1. Setup the EUT and simulator as shown as Section 11.1.

11.5.2. Turn on the power of all equipment.

11.5.3. Let the EUT work in TX modes measure it. The transmit frequency are 5731, 5820MHz.

11.6. Test Procedure

Conducted Band Edge:

11.6.1. The transmitter output was connected to the spectrum analyzer via a low loss cable.

11.6.2. Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz with convenient frequency span including 100 kHz bandwidth from band edge.

11.6.3. The band edges was measured and recorded.

Radiate Band Edge:

11.6.1. The EUT is placed on a turntable, which is 1.5m above the ground plane and worked at highest radiated power.

11.6.2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.

11.6.3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.

11.6.4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:

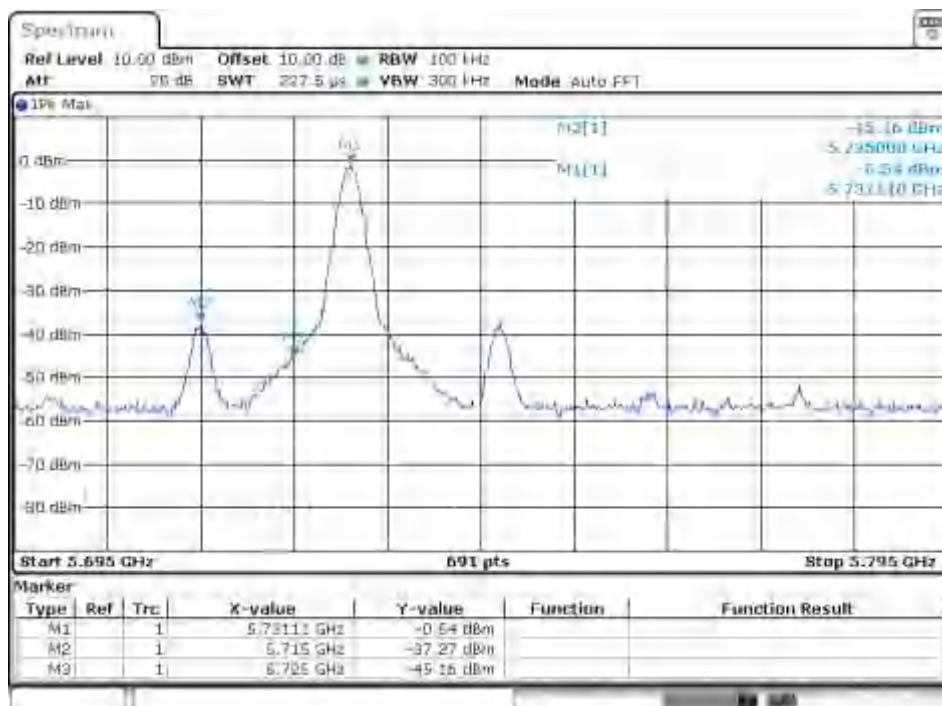
RBW=1MHz, VBW=1MHz

11.6.5. The band edges was measured and recorded.

11.7. Test Result

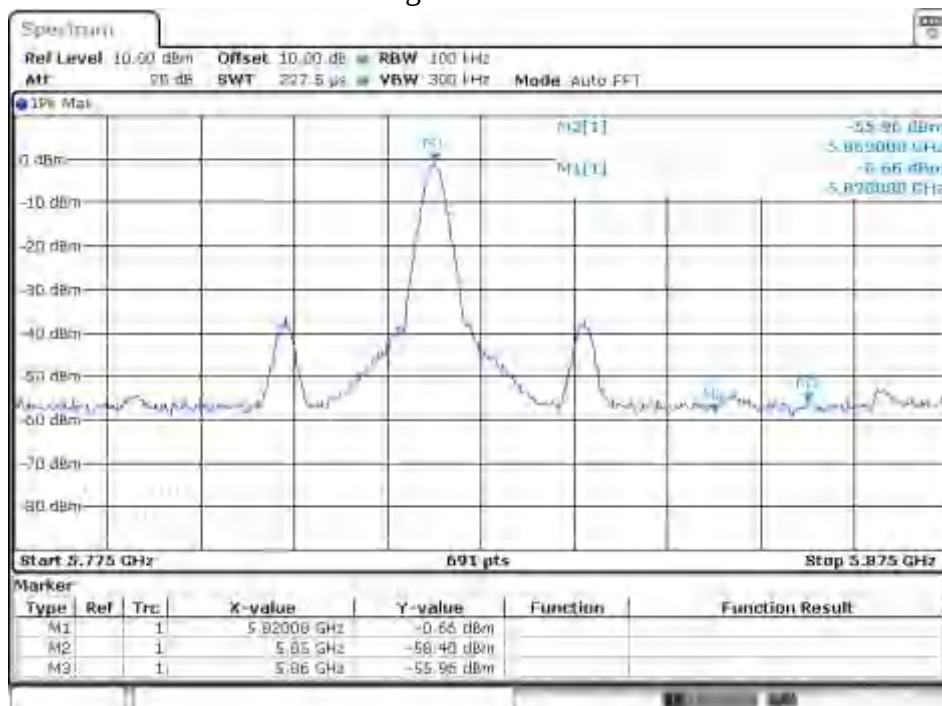
Conducted Band Edge Result:

Low Channel



Date: 5 JUL 2019 11:06:42

High Channel



Date: 5 JUL 2019 11:08:14

Radiated Band Edge Result:

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.

2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading.

The basic equation calculation is as follows: Result = Reading + Corrected Factor

3. Display the measurement of peak values.

4. The average measurement was not performed when peak measured data under the limit of average detection.

The spectrum analyzer plots are attached as below.

Job No.: LGW2019 #2652

Standard: FCC (Band Edge)

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: B8 Soundbar Active Speaker system

Mode: TX 5731MHz

Model: B8

Manufacturer: EDIFIER

Polarization: Horizontal

Power Source: AC 120V/60Hz

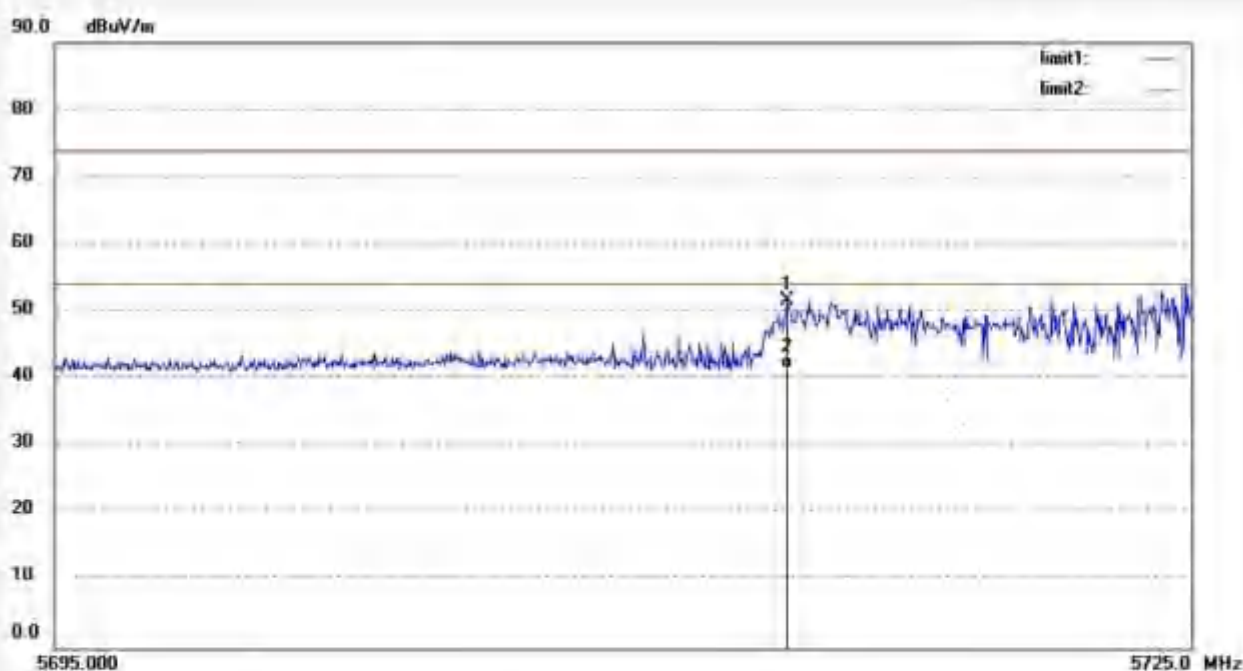
Date: 19/06/27/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5714.350	41.55	10.09	51.64	74.00	-22.36	peak			
2	5714.350	31.45	10.09	41.54	54.00	-12.46	AVG			

Job No.: LGW2019 #2651

Standard: FCC (Band Edge)

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: B8 Soundbar Active Speaker system

Mode: TX 5731MHz

Model: B8

Manufacturer: EDIFIER

Polarization: Vertical

Power Source: AC 120V/60Hz

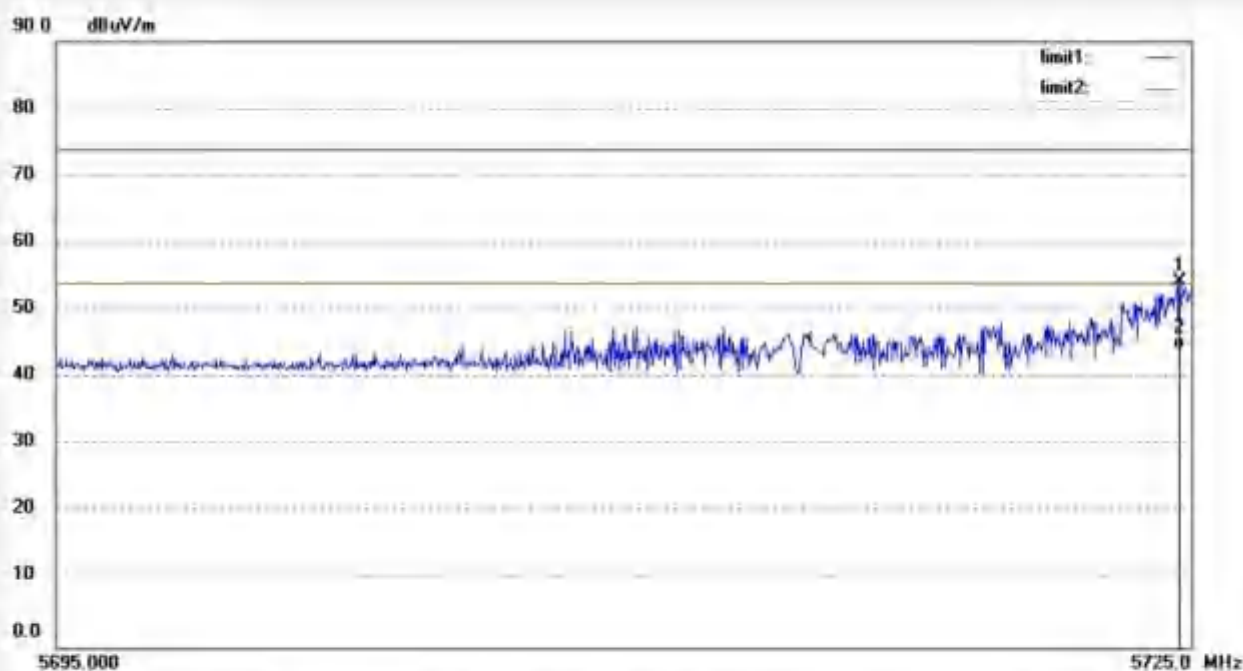
Date: 19/06/27/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5724.700	44.20	10.15	54.35	74.00	-19.65	peak			
2	5724.700	34.09	10.15	44.24	54.00	-9.76	AVG			

Job No.: LGW2019 #2657

Standard: FCC (Band Edge)

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: B8 Soundbar Active Speaker system

Mode: TX 5820MHz

Model: B8

Manufacturer: EDIFIER

Polarization: Horizontal

Power Source: AC 120V/60Hz

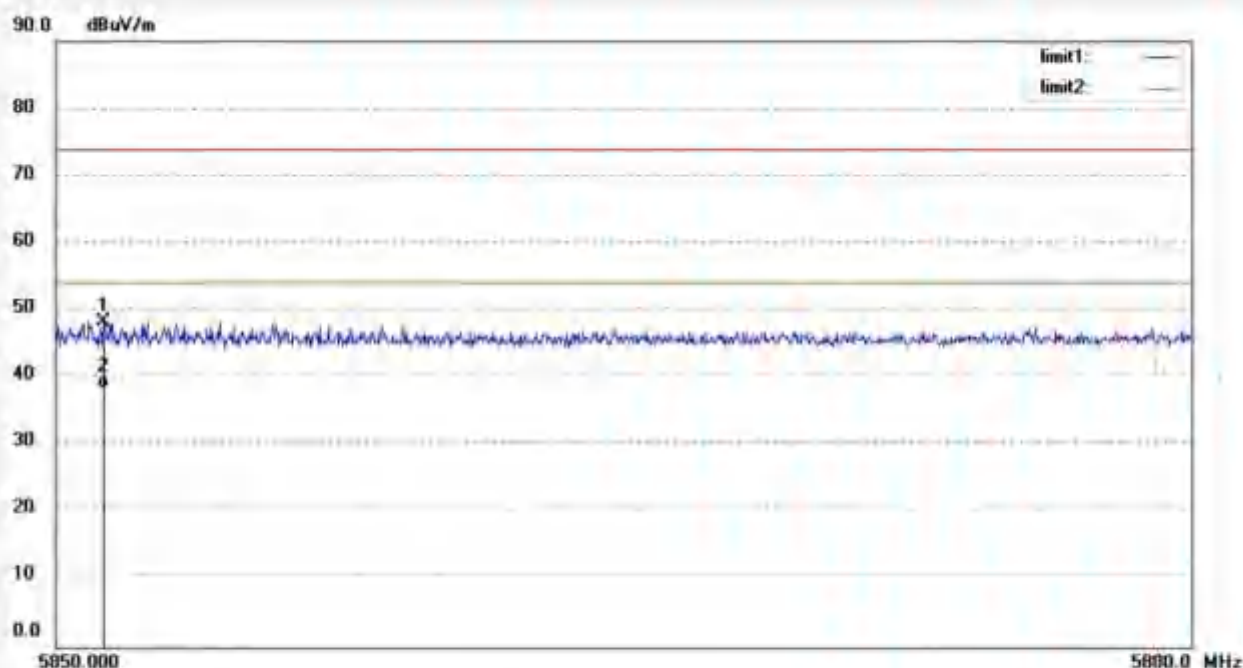
Date: 19/06/27/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5851.260	37.54	10.75	48.29	74.00	-25.71	peak			
2	5851.260	27.70	10.75	38.45	54.00	-15.55	AVG			



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Fax:+86-0755-26503396

Job No.: LGW2019 #2658

Standard: FCC (Band Edge)

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: B8 Soundbar Active Speaker system

Mode: TX 5820MHz

Model: B8

Manufacturer: EDIFIER

Polarization: Vertical

Power Source: AC 120V/60Hz

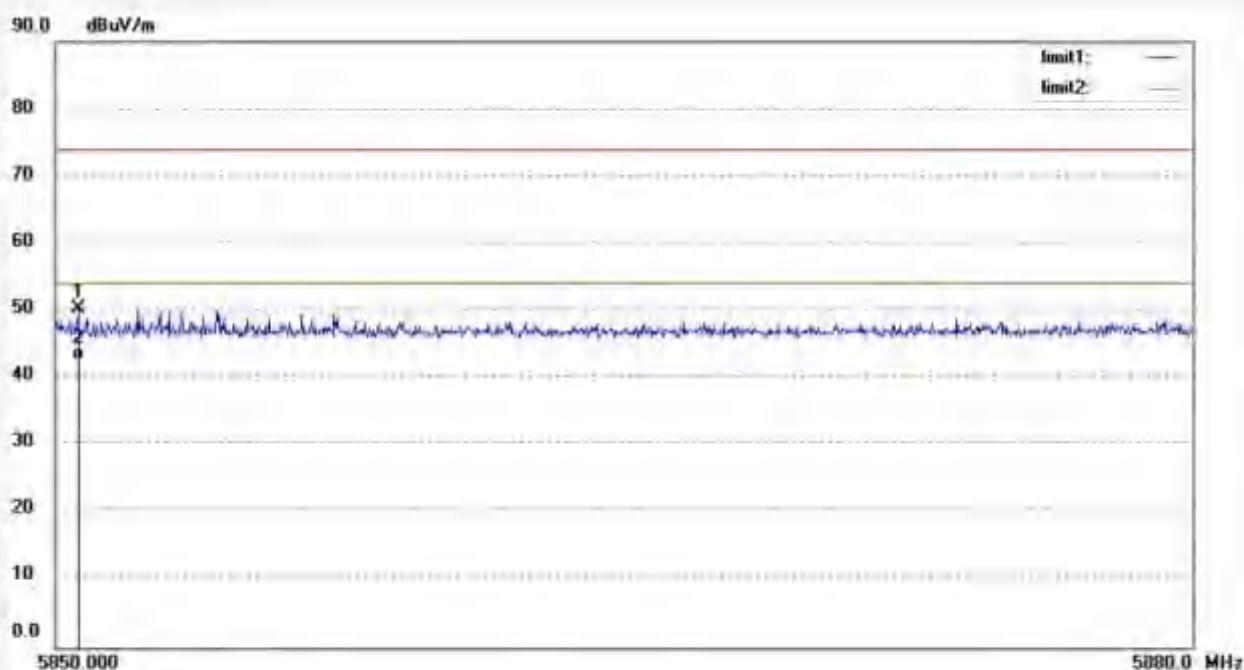
Date: 19/06/27/

Time:

Engineer Signature: WADE

Distance: 3m

Note:

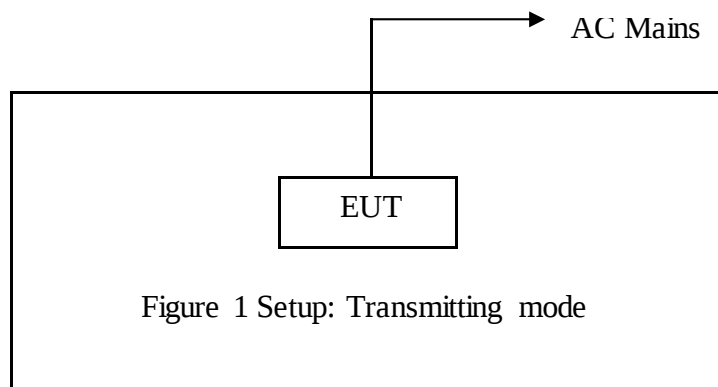


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5850.600	39.46	10.75	50.21	74.00	-23.79	peak			
2	5850.600	31.82	10.75	42.57	54.00	-11.43	AVG			

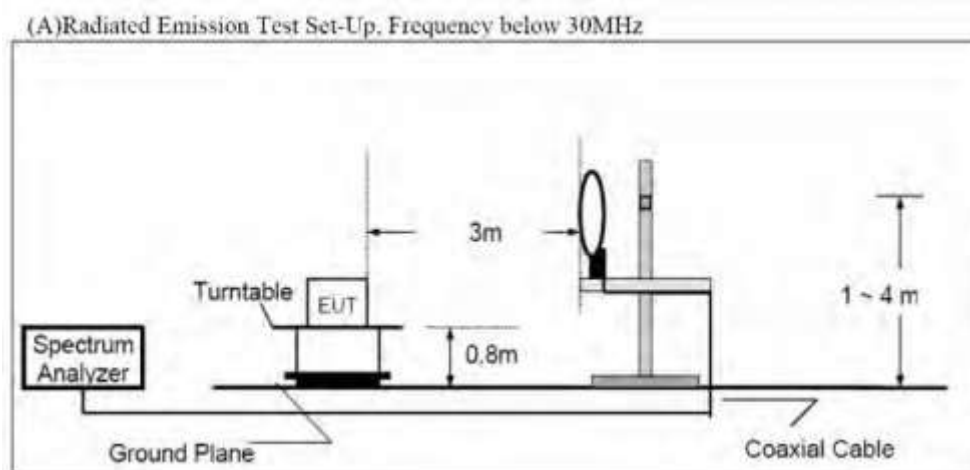
12.RADIATED SPURIOUS EMISSION TEST

12.1. Block Diagram of Test Setup

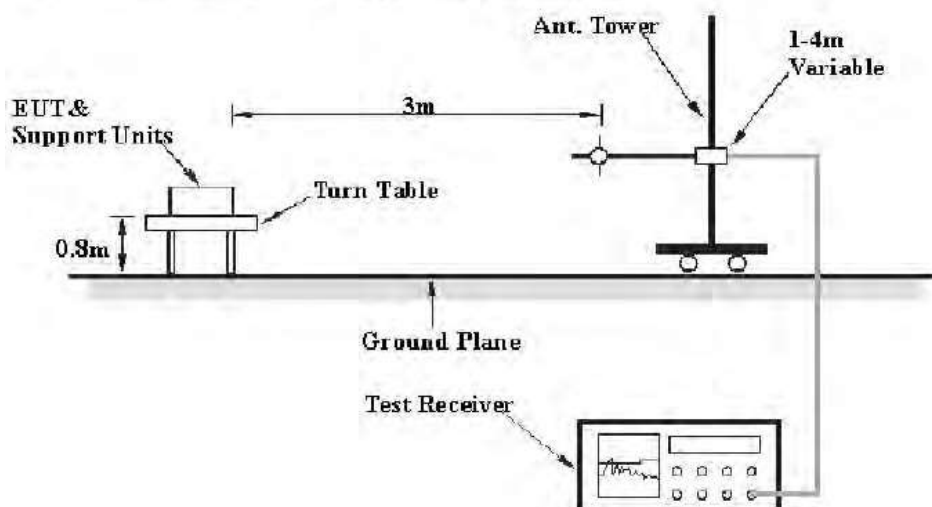
12.1.1. Block diagram of connection between the EUT and peripherals



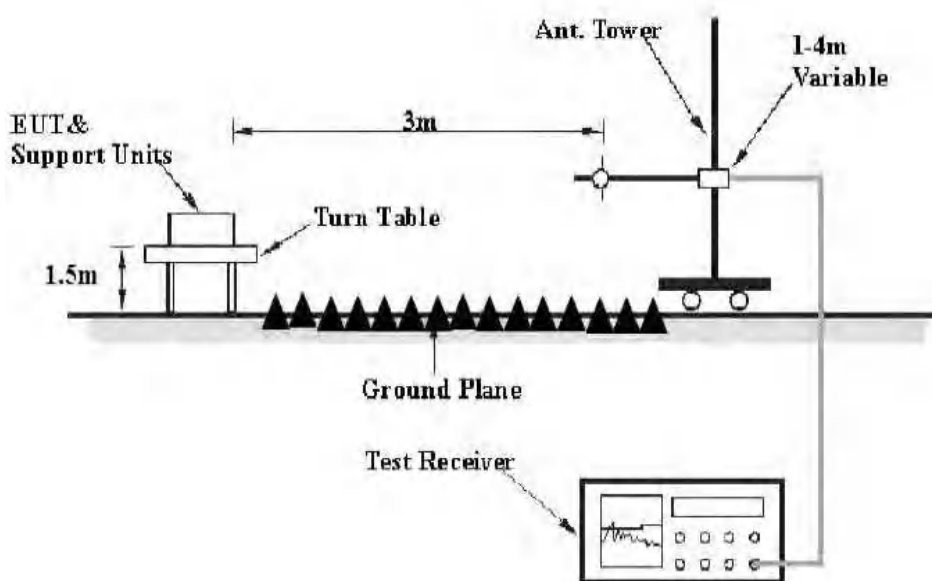
12.1.2. Semi-Anechoic Chamber Test Setup Diagram



(B) Radiated Emission Test Set-Up, Frequency 30MHz-1GHz



(C) Radiated Emission Test Set-Up, Frequency above 1GHz



12.2. The Requirement For Section 15.249(d)

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.

12.3. The Requirement For RSS-247 Section 6.2.4.2

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

12.4. The Limit For Section 15.249(a)

The field strength of fundamental and harmonic emissions, measured at 3 m, shall not exceed 50 mV/m and 0.5 mV/m respectively

12.5. The Limit For RSS-Gen Section 8.9

Table 5 – General field strength limits at frequencies above 30 MHz

Frequency (MHz)	Field strength (μV/m at 3 m)
30 – 88	100
88 – 216	150
216 – 960	200
Above 960	500

Table 6 – General field strength limits at frequencies below 30 MHz

Frequency	Magnetic field strength (H-Field) (μA/m)	Measurement distance (m)
9 – 490 kHz ¹	6.37/F (F in kHz)	300
490 – 1705 kHz	63.7/F (F in kHz)	30
1.705 – 30 MHz	0.08	30

Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

12.6. Configuration of EUT on Measurement

The equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

12.7. Operating Condition of EUT

12.7.1. Setup the EUT and simulator as shown as Section 12.1.

12.7.2. Turn on the power of all equipment.

12.7.3. Let the EUT work in TX modes and measure it. The transmit frequency are 5731, 5773, 5820MHz.

12.8. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter (Below 1GHz) and 1.5m (above 1GHz) high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated emission measurement. This EUT was tested in 3 orthogonal positions and the worst case position data was reported.

The bandwidth of test receiver is set at 9 kHz in below 30MHz. and set at 120 kHz in 30-1000MHz, and 1MHz in above 1000MHz.

The frequency range from 9 kHz to 40GHz is checked.

The final measurement in band 9-90 kHz, 110-490 kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.

RBW (120 kHz), VBW (300 kHz) for QP detector below 1GHz

Peak detector above 1GHz

RBW (1 MHz), VBW (3MHz) for Peak measurement

RBW (1 MHz), VBW (10Hz) for AV measurement

12.9. Data Sample

Frequency (MHz)	Reading (dB μ v)	Factor (dB/m)	Result (dB μ v/m)	Limit (dB μ v/m)	Margin (dB)	Remark
X.XX	48.69	-13.35	35.34	46	-7	QP

Frequency(MHz) = Emission frequency in MHz

Reading(dB μ v) = Uncorrected Analyzer/Receiver reading

Factor (dB/m) = Antenna factor + Cable Loss – Amplifier gain

Result(dB μ v/m) = Reading(dB μ v) + Factor(dB/m)

Limit (dB μ v/m) = Limit stated in standard

Margin (dB) = Result(dB μ v/m) - Limit (dB μ v/m)

QP = Quasi-peak Reading

Calculation Formula:

Margin(dB) = Result (dB μ V/m)–Limit(dB μ V/m)

Result(dB μ V/m)= Reading(dB μ V)+ Factor(dB/m)

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the limit.

12.10. Test Results

PASS.

Note: 1. The frequency range from 9KHz to 40GHz is investigated. 26.5GHz to 40GH data reference

2. Emissions attenuated more than 20 dB below the permissible value are not reported.

3. The EUT is tested radiation emission in three axes. The worst emissions are reported in all channels.

4. The average measurement was not performed when peak measured data under the limit of average detection.

5. EUT has Bluetooth and 5.8G wireless, radiated emission test 5.8G transmit mode, 5.8G and Bluetooth simultaneous transmit two mode.

The spectrum analyzer plots are attached as below.

9kHz-30MHz test data: 5.8G Wireless

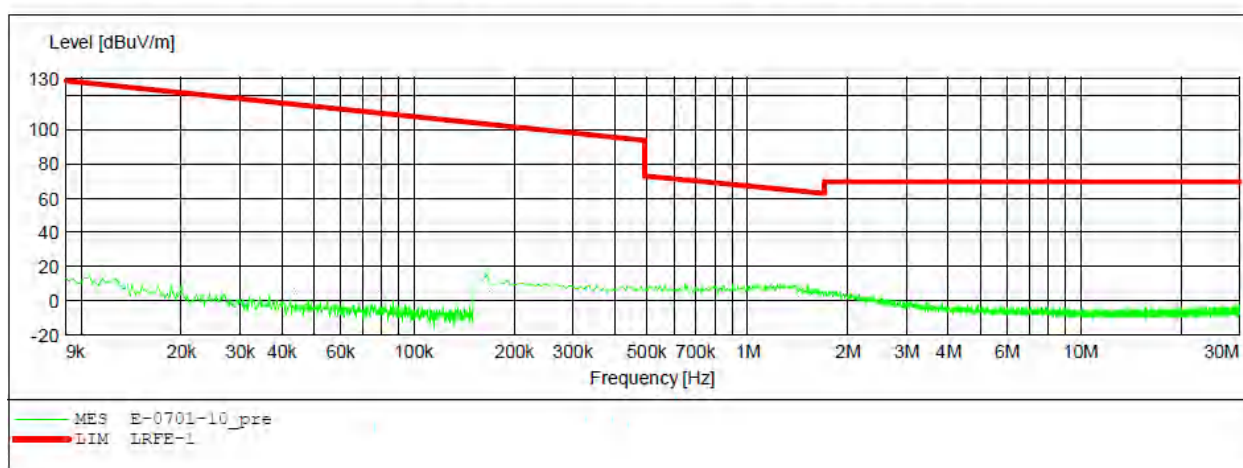
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3M Radiated

EUT: B8 Soundbar Active Speaker system M/N:B8 Soundbar
Manufacturer: Edifier
Operating Condition: TX 5731MHz
Test Site: 2# Chamber
Operator: WADE
Test Specification: AC 120V/60Hz
Comment: X
Start of Test: 2019-7-01 /

SCAN TABLE: "LFRE Fin"

Short Description:			_SUB_STD_VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



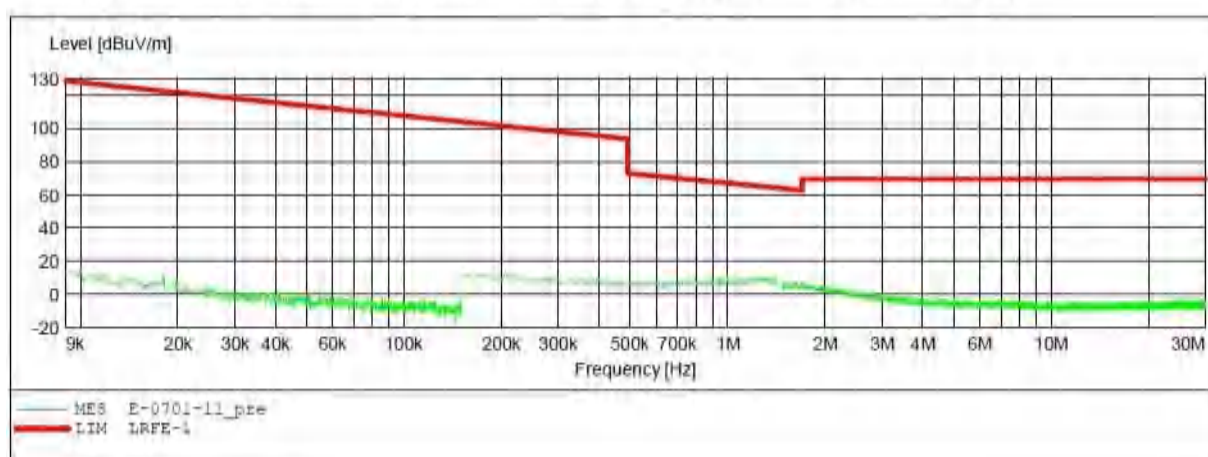
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3M Radiated

EUT: B8 Soundbar Active Speaker system M/N:B8 Soundbar
 Manufacturer: Edifier
 Operating Condition: TX 5731MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: AC 120V/60Hz
 Comment: Y
 Start of Test: 2019-7-01 /

SCAN TABLE: "LFRE Fin"

Short Description:			_SUB_STD_VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



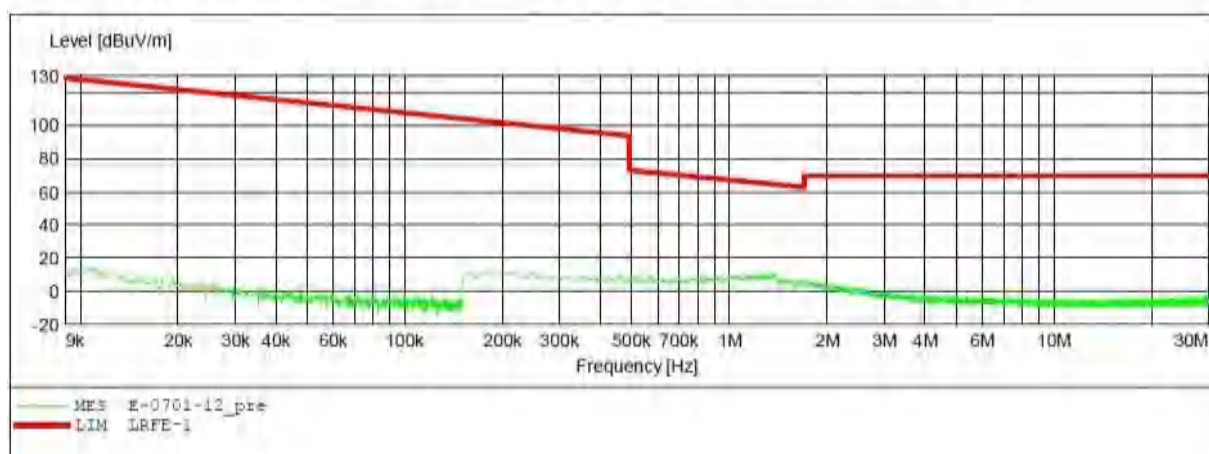
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: B8 Soundbar Active Speaker system M/N:B8 Soundbar
 Manufacturer: Edifier
 Operating Condition: TX 5731MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: AC 120V/60Hz
 Comment: E
 Start of Test: 2019-7-01 /

SCAN TABLE: "LFRE Fin"

Short Description:			SUB_STD_VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



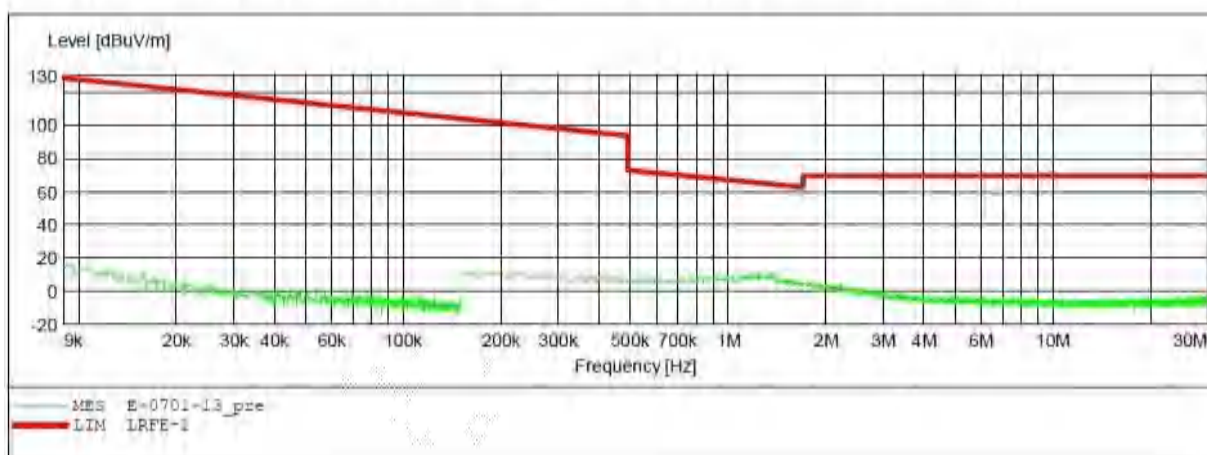
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3M Radiated

EUT: B8 Soundbar Active Speaker system M/N:B8 Soundbar
 Manufacturer: Edifier
 Operating Condition: TX 5773MHz
 Test Site: C# Chamber
 Operator: WADE
 Test Specification: AC 120V/60Hz
 Comment: X
 Start of Test: 2019-7-01 /

SCAN TABLE: "LFRE Fin"

Short Description:			SUB_STD VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



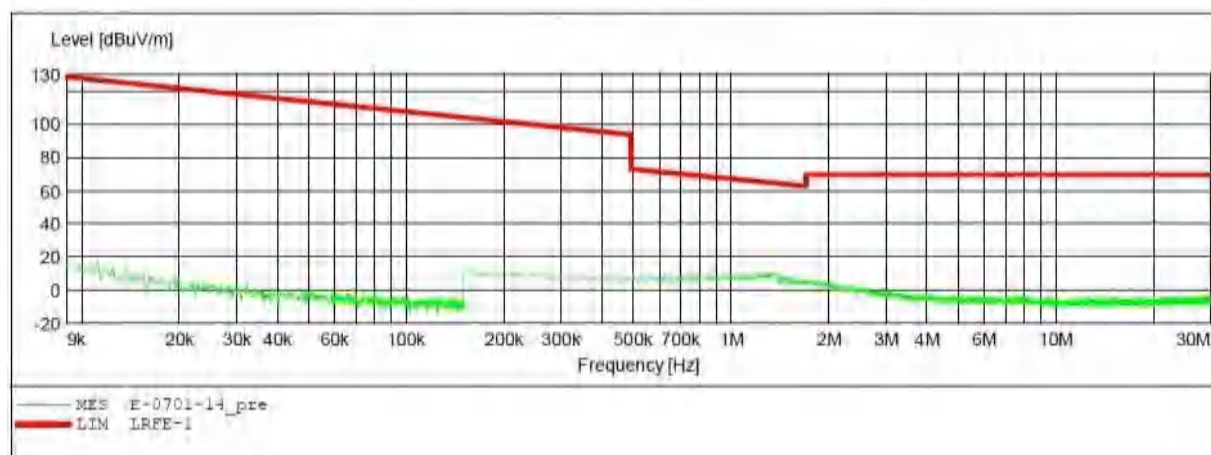
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3M Radiated

EUT: B8 Soundbar Active Speaker system M/N:B8 Soundbar
 Manufacturer: Edifier
 Operating Condition: TX 5773MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: AC 120V/60Hz
 Comment: Y
 Start of Test: 2019-7-01 /

SCAN TABLE: "LFRE Fin"

Short Description:				_SUB_STD_VTEPM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer	
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M	
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M	



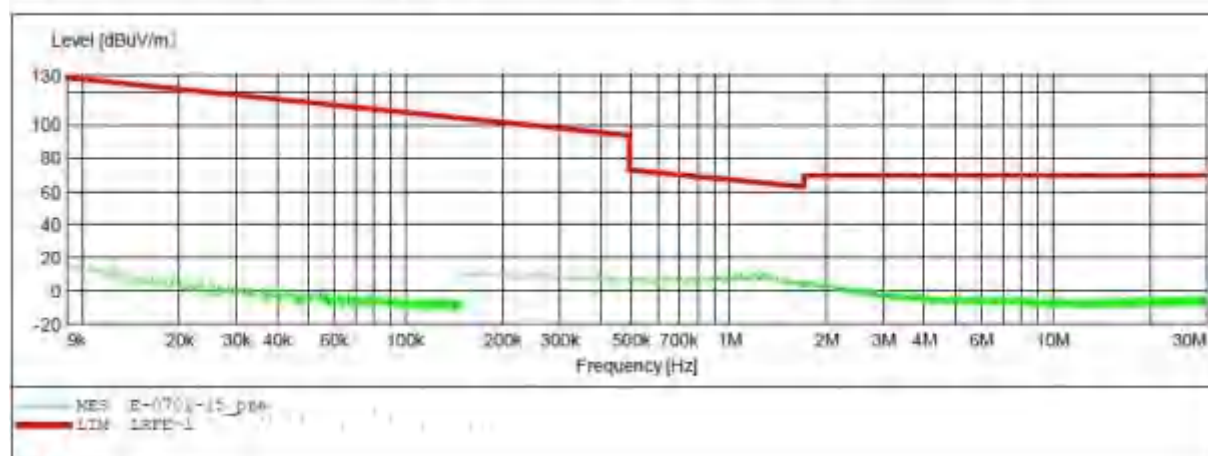
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3M Radiated

EUT: B8 Soundbar Active Speaker system M/N:B8 Soundbar
 Manufacturer: Edifier
 Operating Condition: TX 5773MHz
 Test Site: 1# Chamber
 Operator: WADE
 Test Specification: AC 120V/60Hz
 Comment: Z
 Start of Test: 2019-7-01 /

SCAN TABLE: "LFRE Fin"

Short Description:				SUB_STD VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer	
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M	
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M	



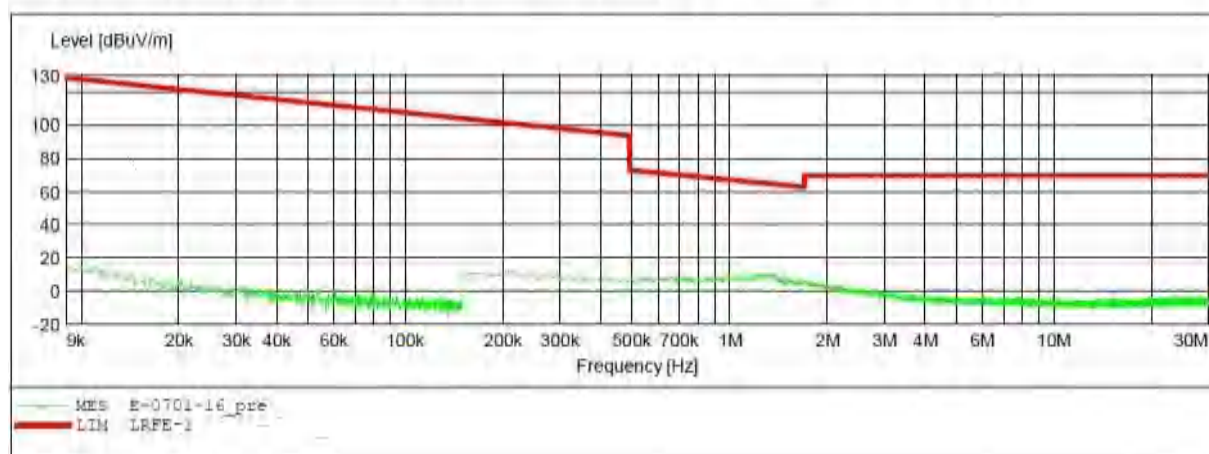
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FCC Class B 3M Radiated

EUT: B8 Soundbar Active Speaker system M/N:B8 Soundbar
 Manufacturer: Edifier
 Operating Condition: TX 5820MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: AC 120V/60Hz
 Comment: X
 Start of Test: 2019-7-01 /

SCAN TABLE: "LFRE Fin"

Short Description:			_SUB_STD_VTERM2 1.70				
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer	
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M	
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M	



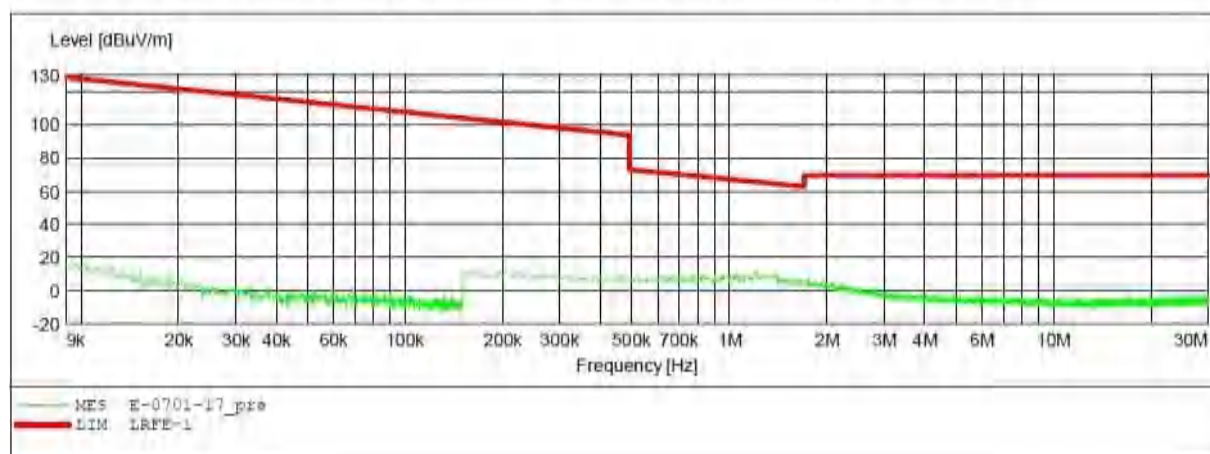
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3M Radiated

EUT: B8 Soundbar Active Speaker system M/N:B8 Soundbar
 Manufacturer: Edifier
 Operating Condition: TX 5810MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: AC 120V/60Hz
 Comment: Y
 Start of Test: 2019-7-01 /

SCAN TABLE: "LFRE Fin"

Short Description:			_SUB_STD_VTERM2 1.70				
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer	
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M	
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M	



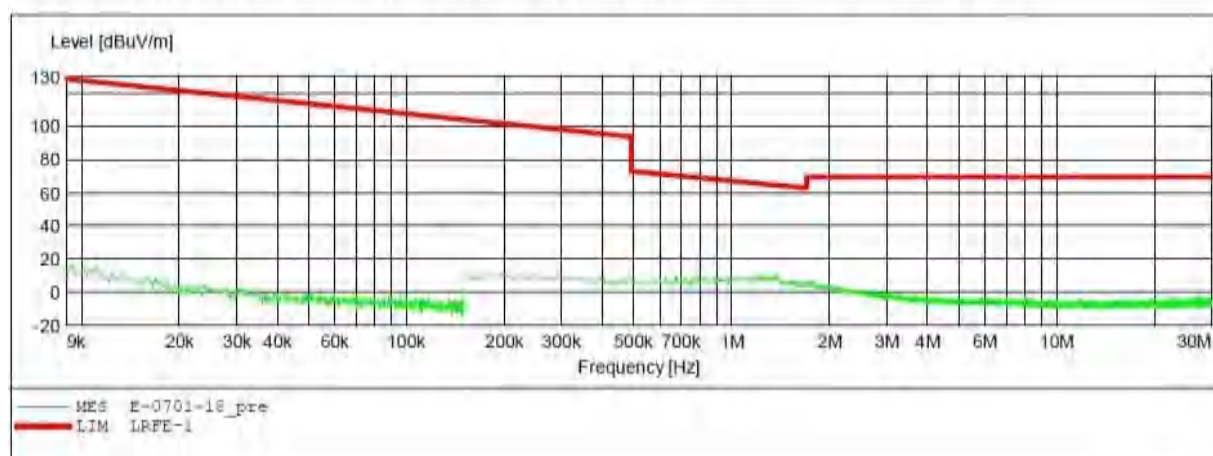
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3M Radiated

EUT: B8 Soundbar Active Speaker system M/N:B8 Soundbar
 Manufacturer: Edifier
 Operating Condition: TX 5820MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: AC 120V/60Hz
 Comment: Z
 Start of Test: 2019-7-01 /

SCAN TABLE: "LFRE Fin"

Short Description:			_SUB_STD_VTERM2 1.70				
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer	
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M	
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M	



30MHz-1GHz test data: 5.8G Wireless



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Job No.: LGW2019 #2755

Standard: FCC Class B 3M Radiated

Test Item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: B8 Soundbar Active Speaker system

Mode: TX 5731MHz

Model: B8 Soundbar

Manufacturer: EDIFIER

Polarization: Horizontal

Power Source: AC 120V/60Hz

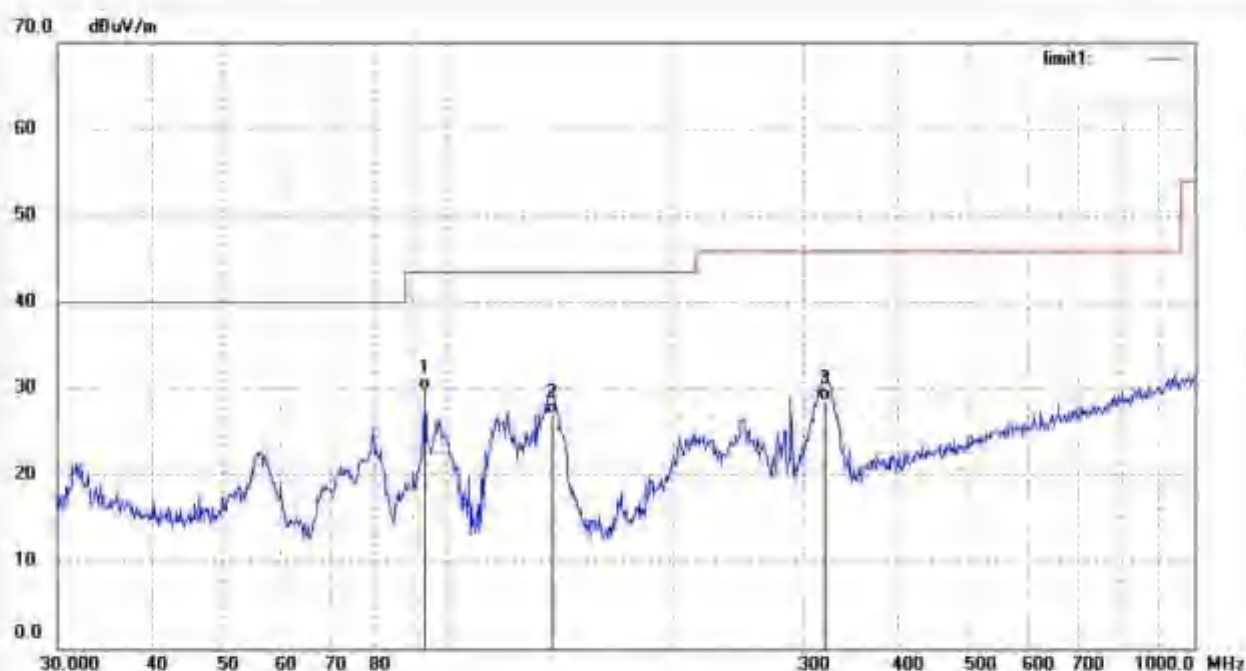
Date: 19/07/07/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	93.1132	44.66	-14.84	29.82	43.50	-13.68	QP			
2	137.9028	41.66	-14.64	27.02	43.50	-16.48	QP			
3	319.9370	37.13	-8.45	28.68	46.00	-17.32	QP			

Shenzhen Accurate Technology Co., Ltd.

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Http://www.atc-lab.com

Job No.: LGW2019 #2756

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: B8 Soundbar Active Speaker system

Mode: TX 5731MHz

Model: B8 Soundbar

Manufacturer: EDIFIER

Polarization: Vertical

Power Source: AC 120V/60Hz

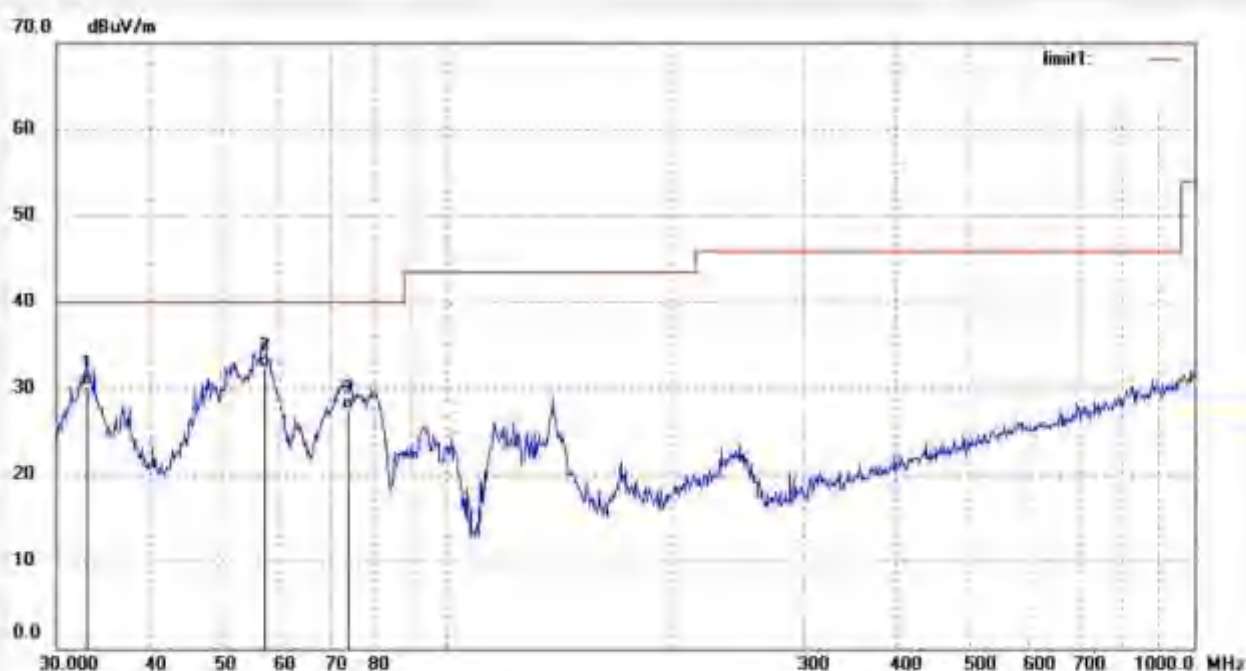
Date: 19/07/07/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.9791	40.12	-9.82	30.30	40.00	-9.70	QP			
2	56.9911	45.83	-13.33	32.50	40.00	-7.50	QP			
3	73.8756	44.09	-16.56	27.53	40.00	-12.47	QP			

Job No.: LGW2019 #2758

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: B8 Soundbar Active Speaker system

Mode: TX 5773MHz

Model: B8 Soundbar

Manufacturer: EDIFIER

Polarization: Horizontal

Power Source: AC 120V/60Hz

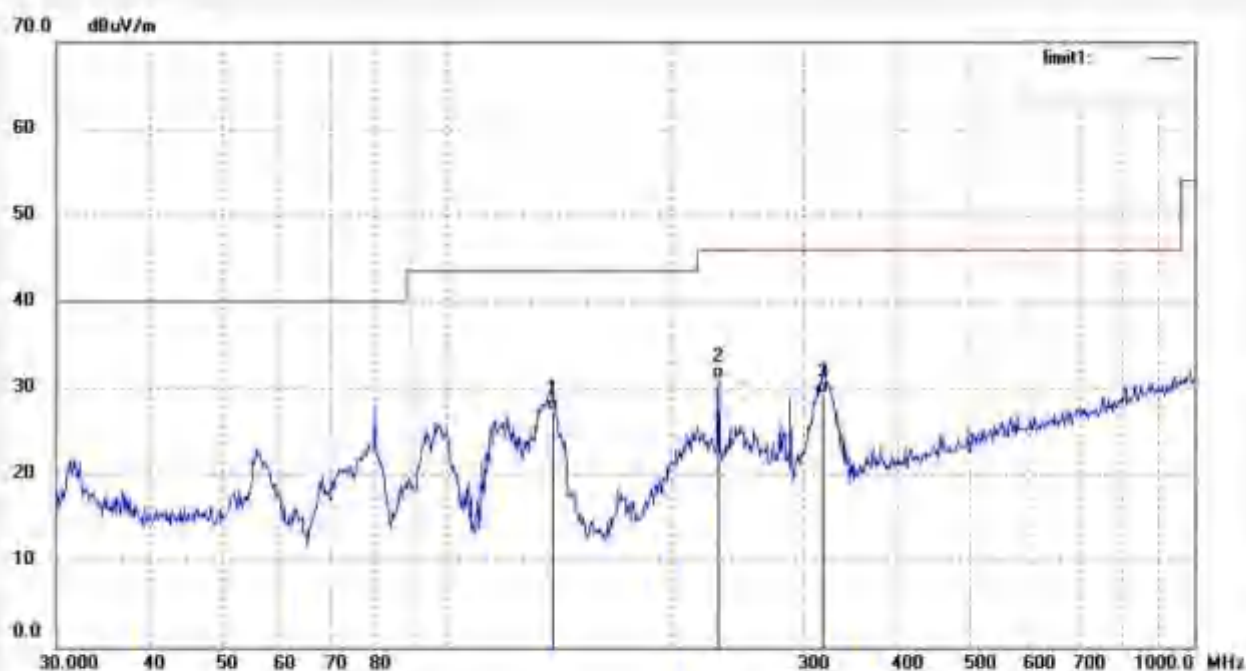
Date: 19/07/07/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	138.3873	42.16	-14.76	27.40	43.50	-16.10	QP			
2	230.9068	42.13	-11.05	31.08	46.00	-14.92	QP			
3	318.8170	37.88	-8.48	29.40	46.00	-16.60	QP			



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Site: 2# Chamber

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Job No.: LGW2019 #2757

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: B8 Soundbar Active Speaker system

Mode: TX 5773MHz

Model: B8 Soundbar

Manufacturer: EDIFIER

Polarization: Vertical

Power Source: AC 120V/60Hz

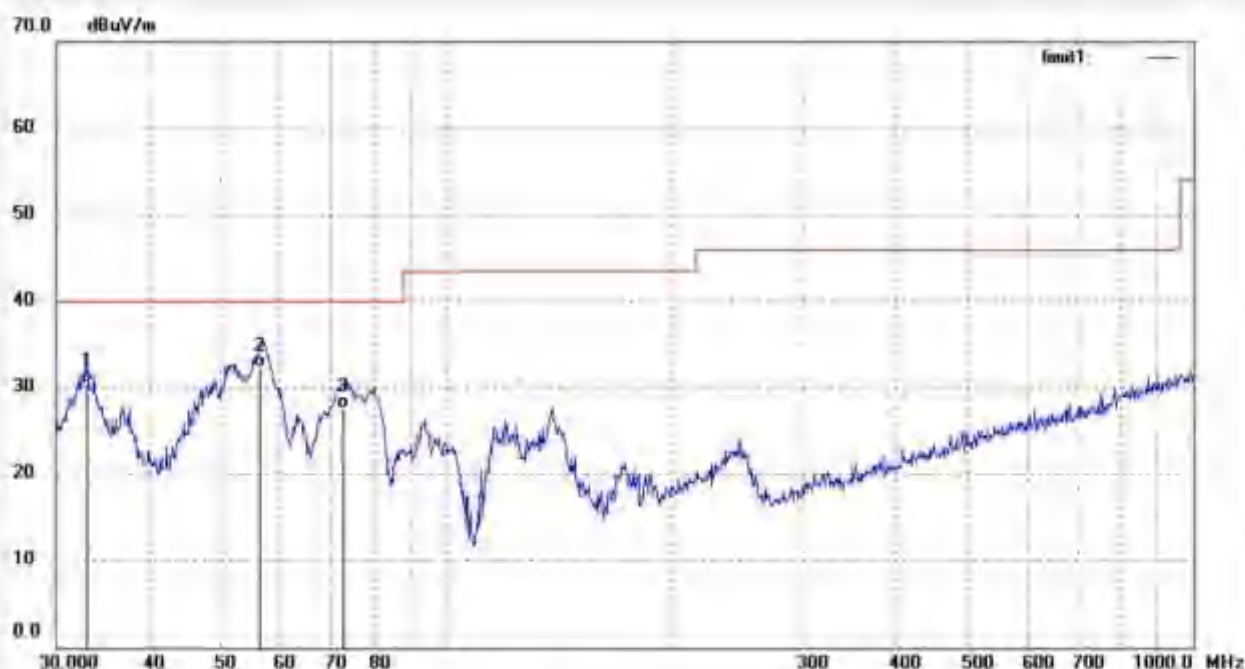
Date: 19/07/07/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.9791	40.31	-9.82	30.49	40.00	-9.51	QP			
2	56.1974	45.50	-13.18	32.32	40.00	-7.68	QP			
3	72.8465	43.93	-16.44	27.49	40.00	-12.51	QP			



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Site: 2# Chamber
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Job No.: LGW2019 #2759

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: B8 Soundbar Active Speaker system

Mode: TX 5820MHz

Model: B8 Soundbar

Manufacturer: EDIFIER

Polarization: Horizontal

Power Source: AC 120V/60Hz

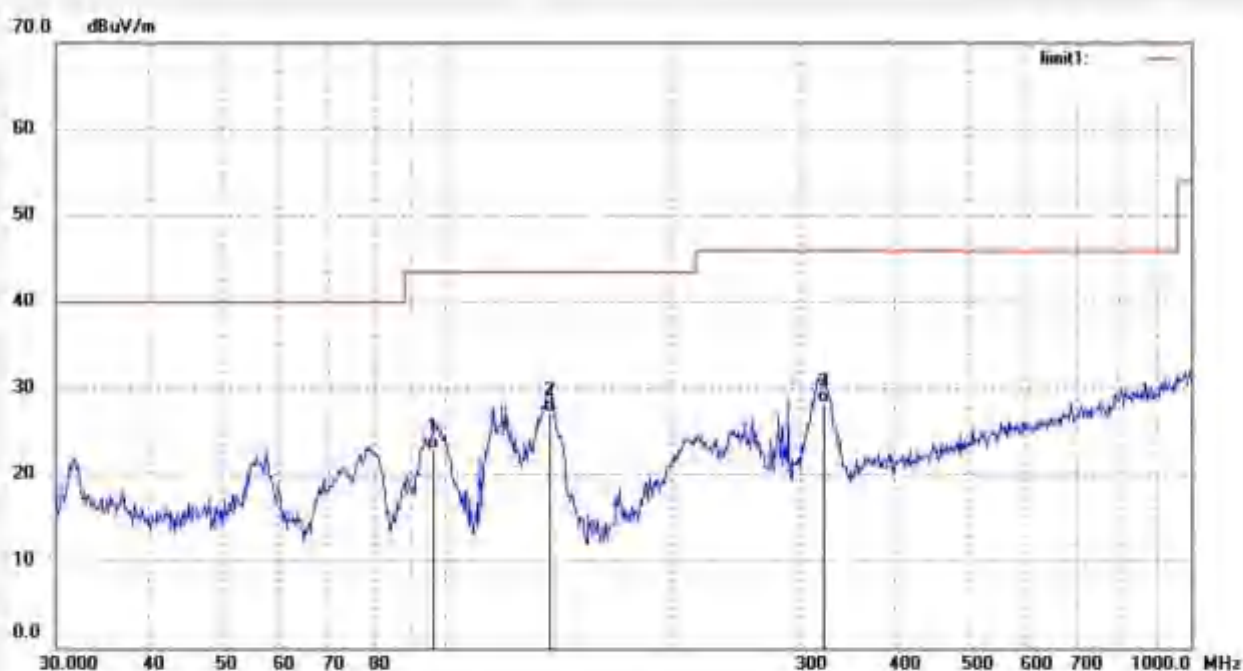
Date: 19/07/07/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	96.4361	37.32	-14.25	23.07	43.50	-20.43	QP			
2	137.9028	41.93	-14.64	27.29	43.50	-16.21	QP			
3	322.1886	36.70	-8.36	28.34	46.00	-17.66	QP			

Job No.: LGW2019 #2760

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: B8 Soundbar Active Speaker system

Mode: TX 5820MHz

Model: B8 Soundbar

Manufacturer: EDIFIER

Polarization: Vertical

Power Source: AC 120V/60Hz

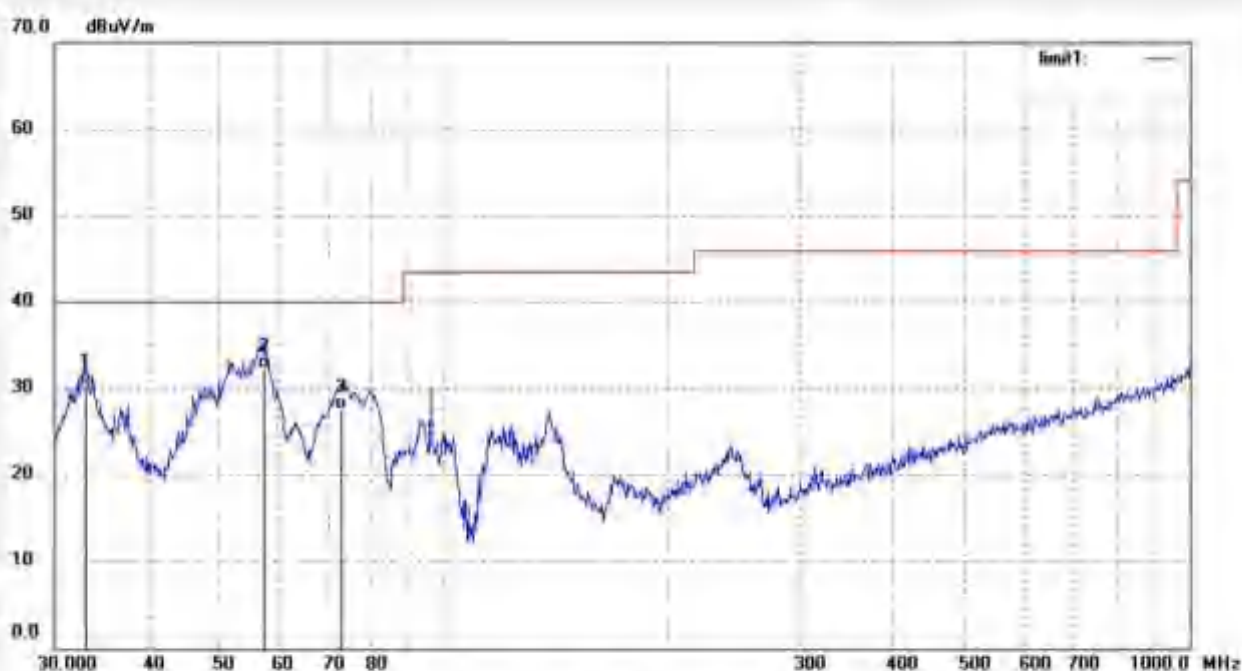
Date: 19/07/07/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.9791	40.28	-9.82	30.46	40.00	-9.54	QP			
2	57.3922	45.64	-13.41	32.23	40.00	-7.77	QP			
3	72.8465	43.92	-16.44	27.48	40.00	-12.52	QP			



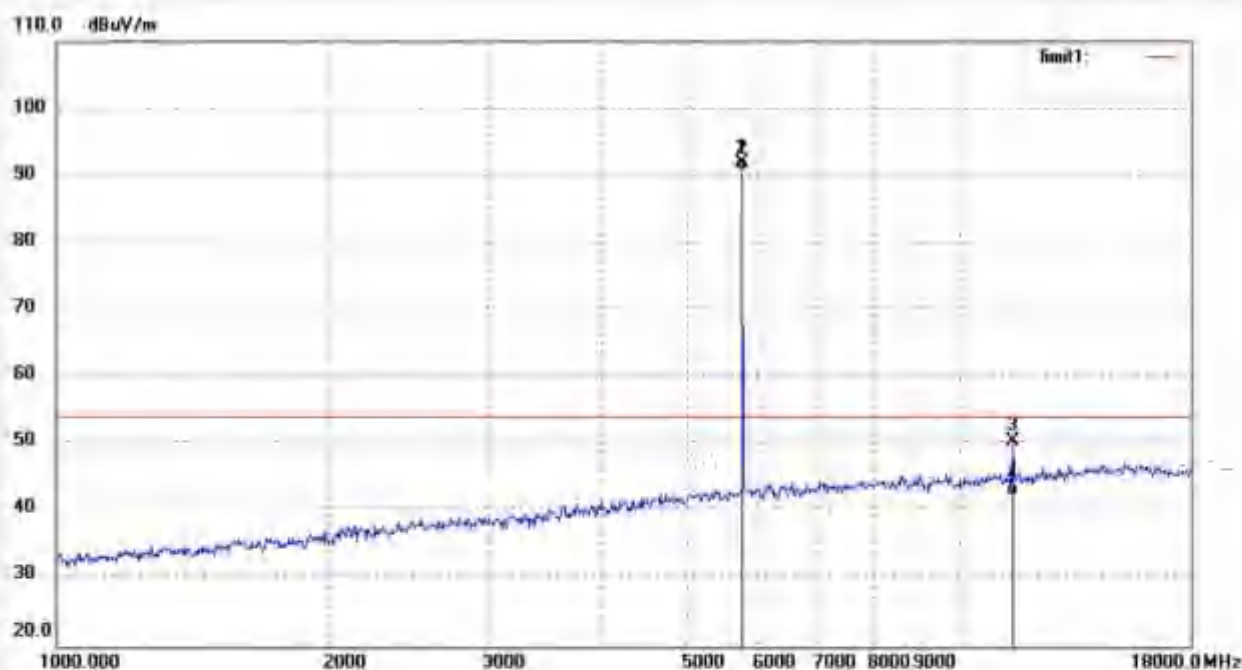
1GHz-18GHz test data: 5.8G Wireless
ACCURATE TECHNOLOGY CO., LTD.
 F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: LGW2019 #2761
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 23 C / 48 %
 EUT: B8 Soundbar Active Speaker system
 Mode: TX 5731MHz
 Model: B8 Soundbar
 Manufacturer: EDIFIER

Polarization: Horizontal
 Power Source: AC 120V/60Hz
 Date: 19/07/07/
 Time:
 Engineer Signature: WADE
 Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5731.000	81.79	10.18	91.97	114.00	-22.03	peak			
2	5731.000	80.49	10.18	90.67	94.00	-3.33	AVG			
3	11462.244	34.86	15.55	50.41	74.00	-23.59	peak			
4	11462.244	28.80	15.55	42.35	54.00	-11.65	AVG			



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Site: 2# Chamber

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Job No.: LGW2019 #2762

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: B8 Soundbar Active Speaker system

Mode: TX 5731MHz

Model: B8 Soundbar

Manufacturer: EDIFIER

Polarization: Vertical

Power Source: AC 120V/60Hz

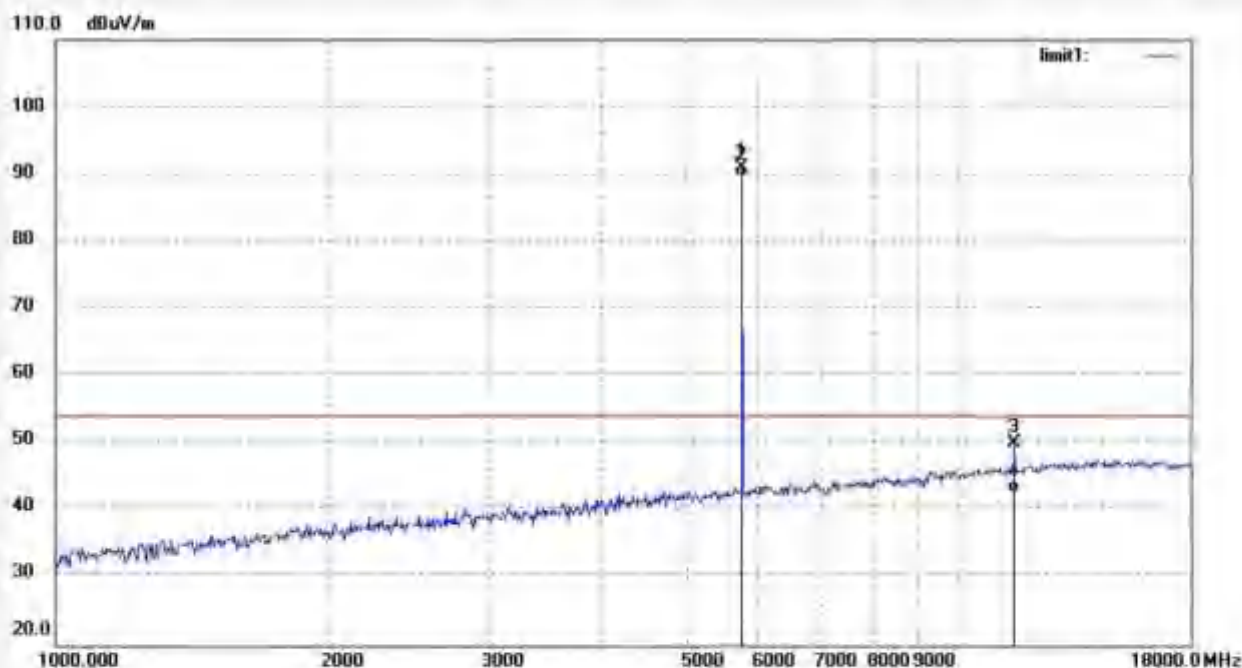
Date: 19/07/07/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5731.000	80.80	10.18	90.98	114.00	-23.02	peak			
2	5731.000	79.50	10.18	89.68	94.00	-4.32	AVG			
3	11462.235	34.60	15.55	50.15	74.00	-23.85	peak			
4	11462.235	27.02	15.55	42.57	54.00	-11.43	AVG			

Job No.: LGW2019 #2764

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: B8 Soundbar Active Speaker system

Mode: TX 5773MHz

Model: B8 Soundbar

Manufacturer: EDIFIER

Polarization: Horizontal

Power Source: AC 120V/60Hz

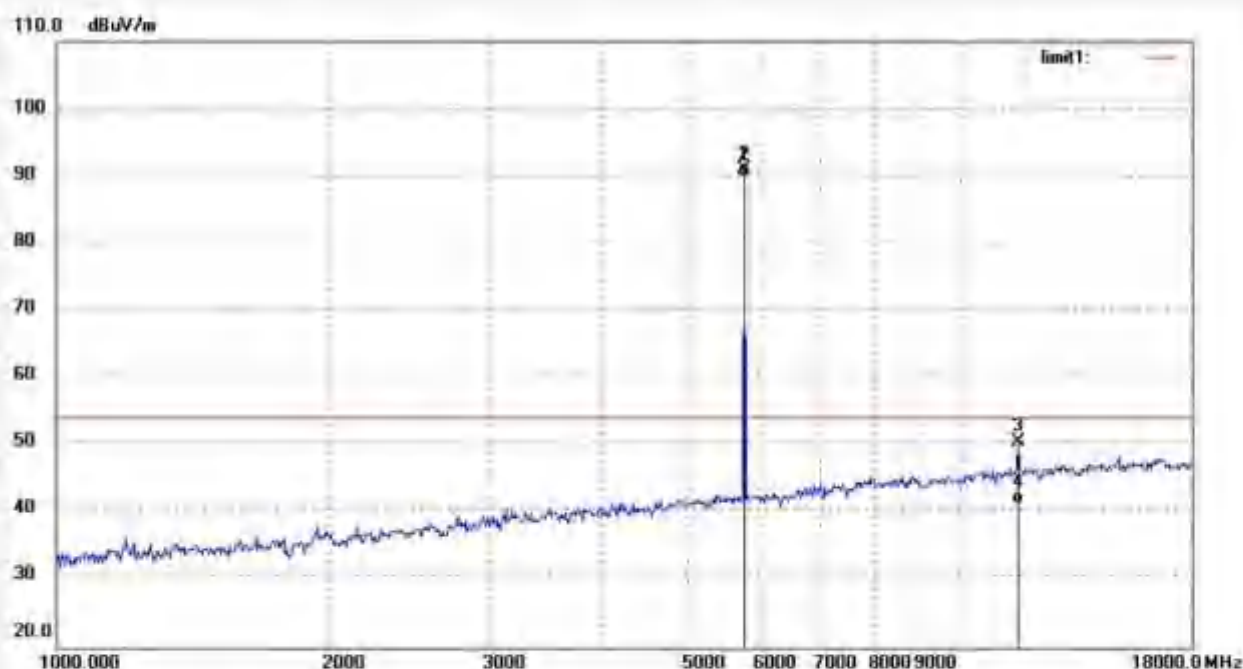
Date: 19/07/07

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5773.000	80.57	10.44	91.01	114.00	-22.99	peak			
2	5773.000	79.37	10.44	89.81	94.00	-4.19	AVG			
3	11546.238	34.89	15.70	50.59	74.00	-23.41	peak			
4	11546.238	25.63	15.70	41.33	54.00	-12.67	AVG			

Job No.: LGW2019 #2763

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: B8 Soundbar Active Speaker system

Mode: TX 5773MHz

Model: B8 Soundbar

Manufacturer: EDIFIER

Polarization: Vertical

Power Source: AC 120V/60Hz

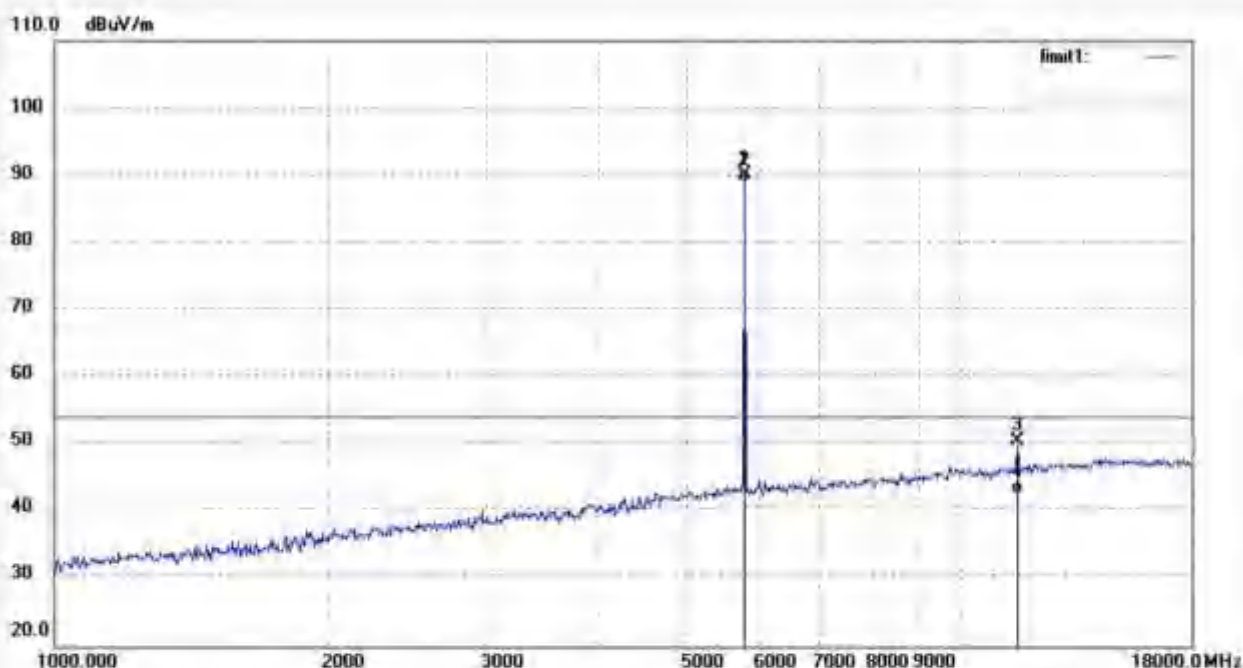
Date: 19/07/07/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5773.000	79.64	10.44	90.08	114.00	-23.92	peak			
2	5773.000	78.44	10.44	88.88	94.00	-5.12	AVG			
3	11546.240	34.83	15.70	50.53	74.00	-23.47	peak			
4	11546.240	26.87	15.70	42.57	54.00	-11.43	AVG			



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Job No.: LGW2019 #2765

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: B8 Soundbar Active Speaker system

Mode: TX 5820MHz

Model: B8 Soundbar

Manufacturer: EDIFIER

Polarization: Horizontal

Power Source: AC 120V/60Hz

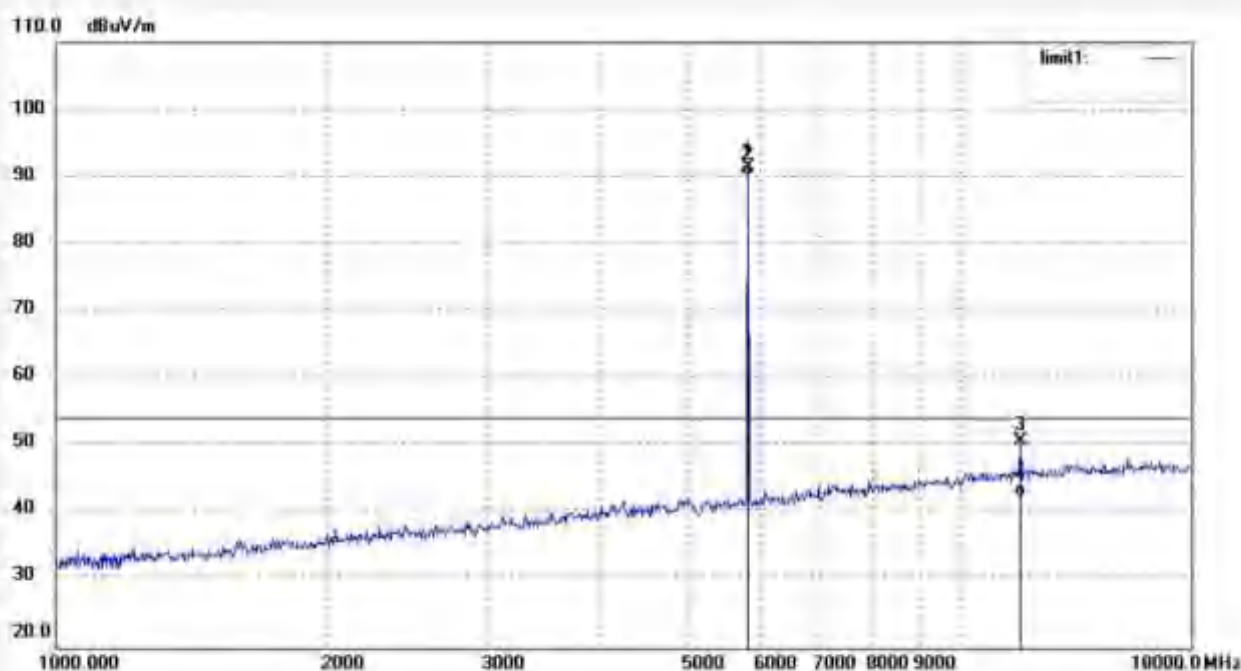
Date: 19/07/07/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5820.000	80.84	10.66	91.50	114.00	-22.50	peak			
2	5820.000	79.44	10.66	90.10	94.00	-3.90	AVG			
3	11640.243	34.49	16.16	50.65	74.00	-23.35	peak			
4	11640.243	26.19	16.16	42.35	54.00	-11.65	AVG			



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Job No.: LGW2019 #2766

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: B8 Soundbar Active Speaker system

Model: TX 5820MHz

Model: B8 Soundbar

Manufacturer: EDIFIER

Polarization: Vertical

Power Source: AC 120V/60Hz

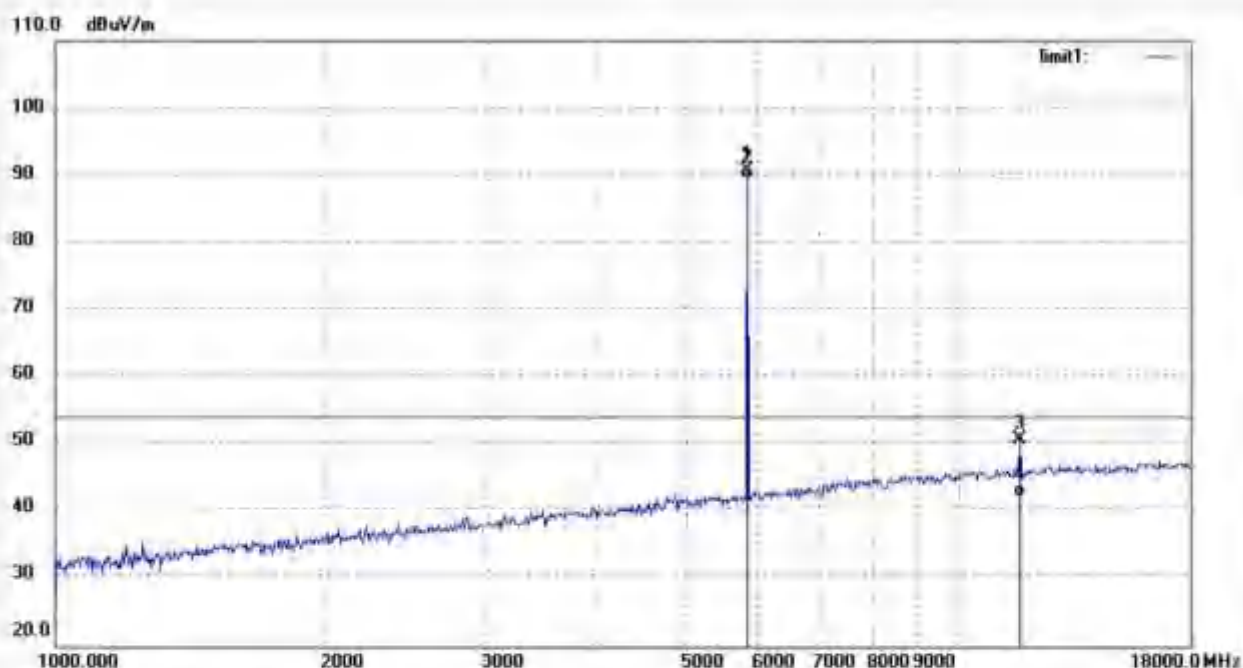
Date: 19/07/07/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5820.000	80.17	10.66	90.83	114.00	-23.17	peak			
2	5820.000	78.77	10.66	89.43	94.00	-4.57	AVG			
3	11640.245	34.65	16.16	50.81	74.00	-23.19	peak			
4	11640.245	25.98	16.16	42.14	54.00	-11.86	AVG			

Shenzhen Accurate Technology Co., Ltd.

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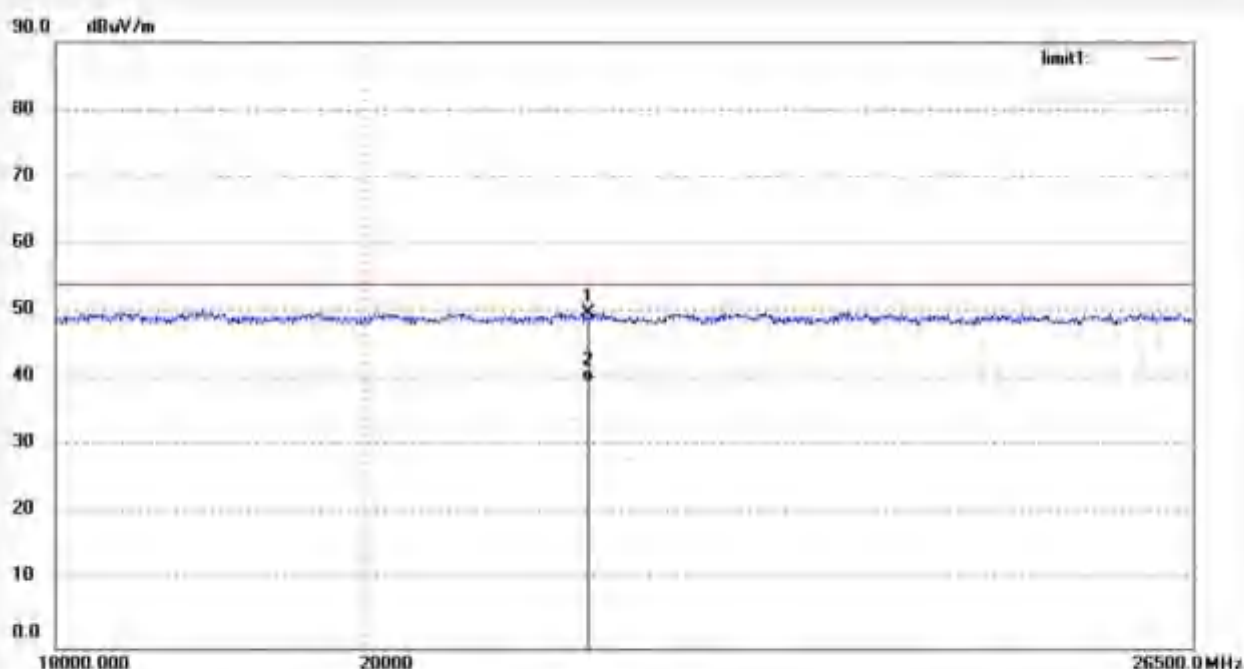
18GHz-26.5GHz test data: 5.8G Wireless
ACCURATE TECHNOLOGY CO., LTD.
 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: LGW2019 #2768
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 23 C / 48 %
 EUT: B8 Soundbar Active Speaker system
 Mode: TX 5731MHz
 Model: B8 Soundbar
 Manufacturer: EDIFIER

Polarization: Horizontal
 Power Source: AC 120V/60Hz
 Date: 19/07/07/
 Time:
 Engineer Signature: WADE
 Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	21571.684	18.28	31.50	49.78	74.00	-24.22	peak			
2	21571.684	7.95	31.50	39.45	54.00	-14.55	AVG			



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Site: 2# Chamber

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Fax:+86-0755-26503396

Job No.: LGW2019 #2767

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: B8 Soundbar Active Speaker system

Mode: TX 5731MHz

Model: B8 Soundbar

Manufacturer: EDIFIER

Polarization: Vertical

Power Source: AC 120V/60Hz

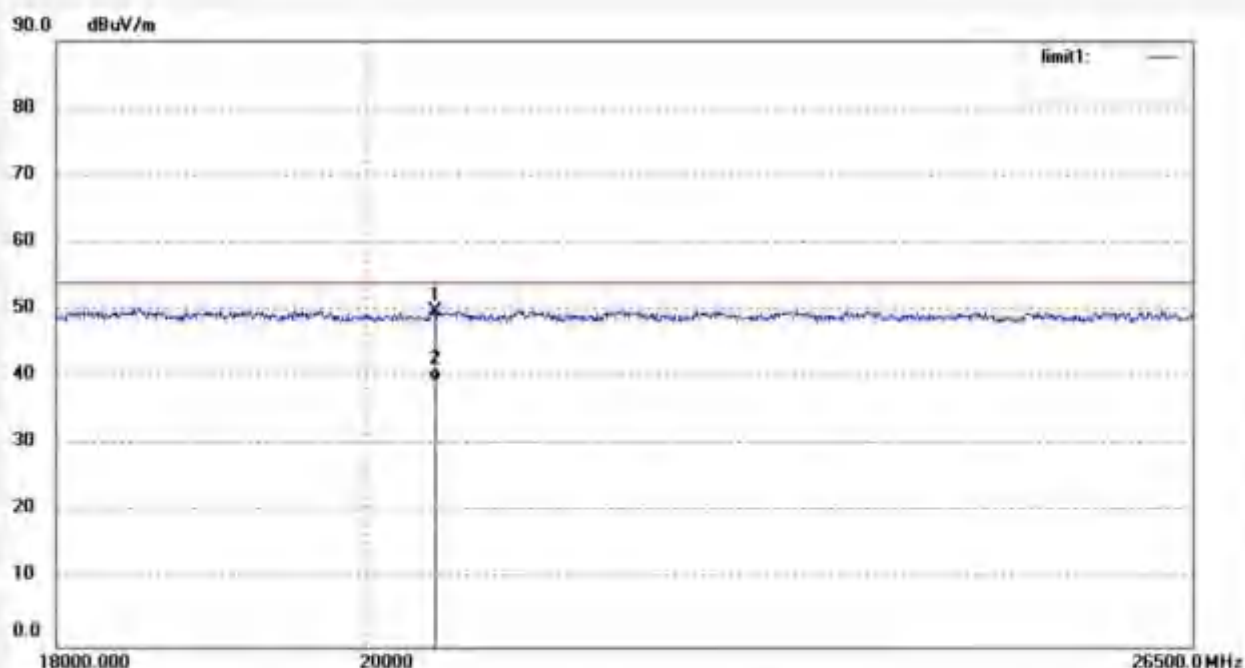
Date: 19/07/07/

Time:

Engineer Signature: WADE

Distance: 3m

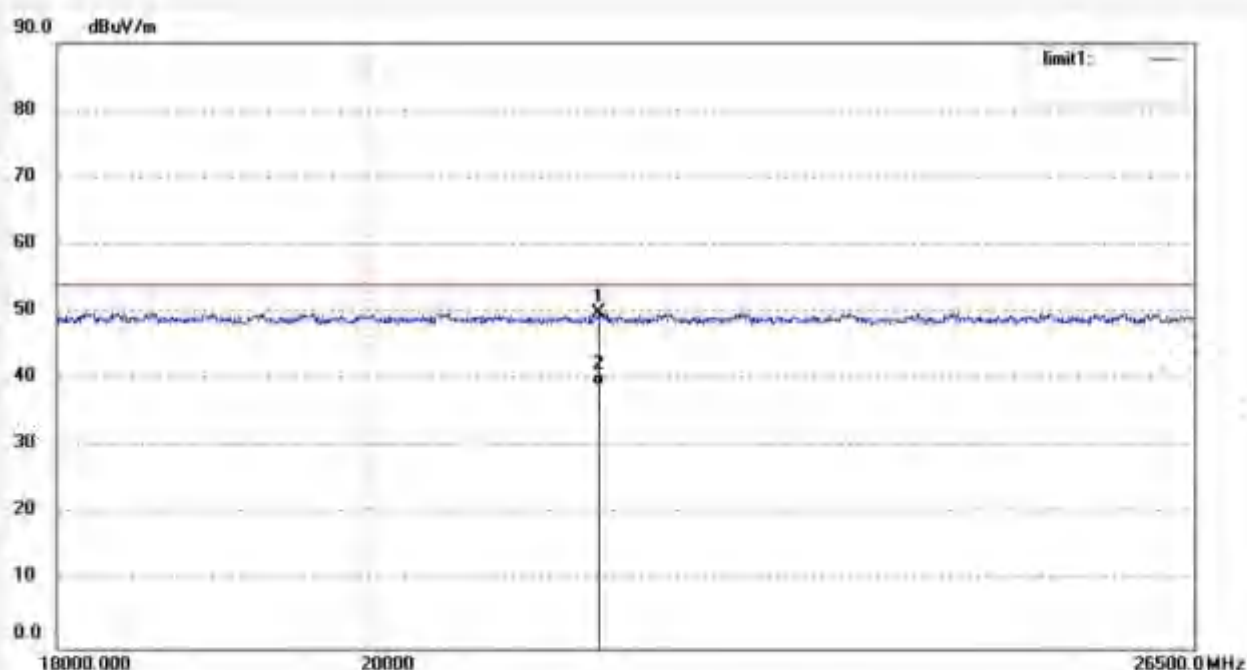
Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	20482.153	18.53	31.33	49.86	74.00	-24.14	peak			
2	20482.153	8.12	31.33	39.45	54.00	-14.55	AVG			

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	21638.534	18.20	31.60	49.80	74.00	-24.20	peak			
2	21638.534	7.55	31.60	39.15	54.00	-14.85	AVG			

Job No.: LGW2019 #2770

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: B8 Soundbar Active Speaker system

Mode: TX 5773MHz

Model: B8 Soundbar

Manufacturer: EDIFIER

Polarization: Vertical

Power Source: AC 120V/60Hz

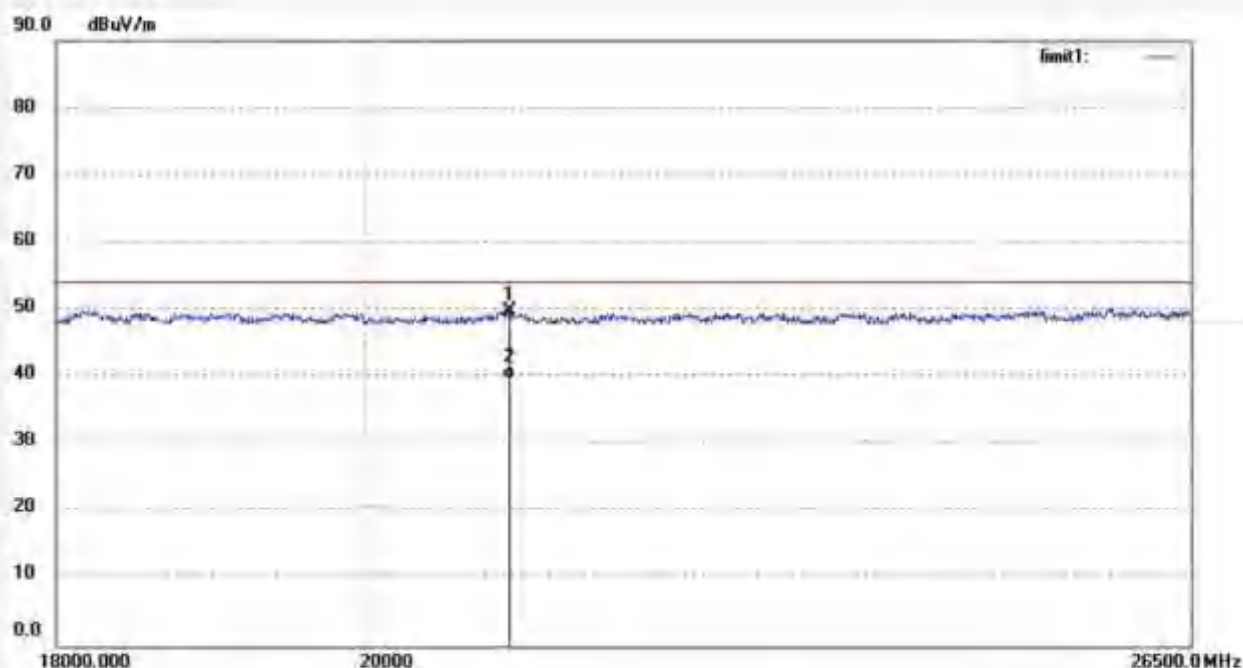
Date: 19/07/07/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark:
1	21003.607	17.55	32.37	49.92	74.00	-24.08	peak			
2	21003.607	7.38	32.37	39.75	54.00	-14.25	AVG			

Job No.: LGW2019 #2772

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: B8 Soundbar Active Speaker system

Mode: TX 5820MHz

Model: B8 Soundbar

Manufacturer: EDIFIER

Polarization: Horizontal

Power Source: AC 120V/60Hz

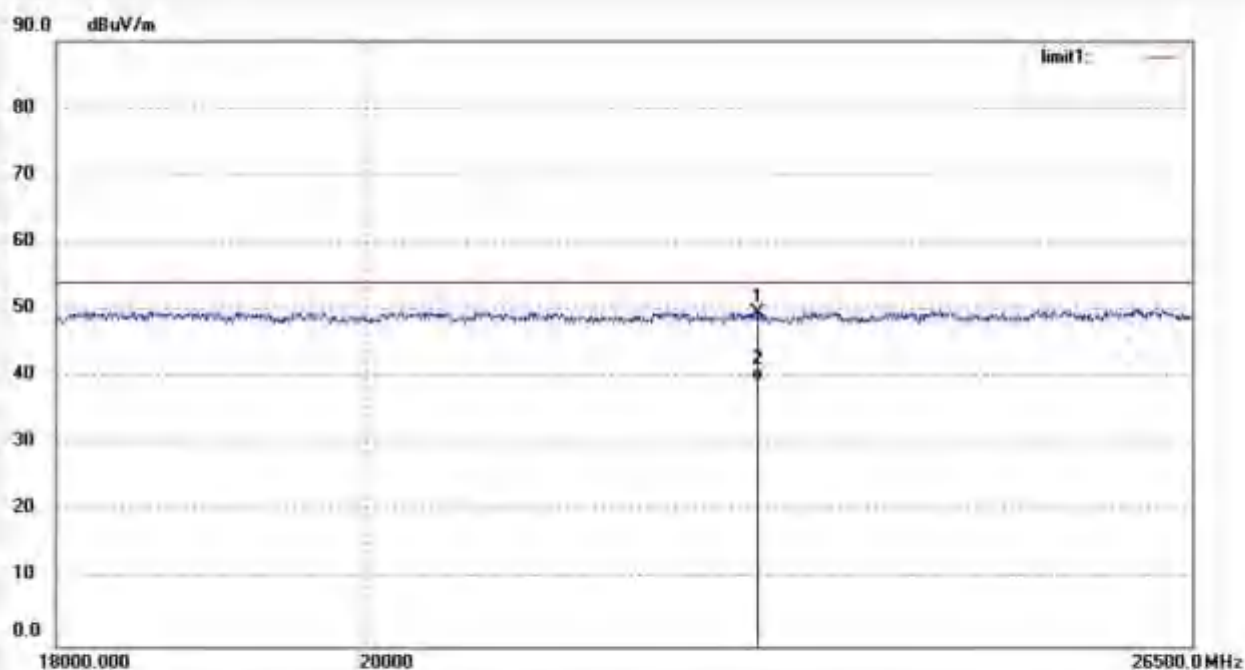
Date: 19/07/07/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	22860.201	17.36	32.28	49.64	74.00	-24.36	peak			
2	22860.201	7.28	32.28	39.56	54.00	-14.44	AVG			

Job No.: LGW2019 #2771

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: B8 Soundbar Active Speaker system

Mode: TX 5820MHz

Model: B8 Soundbar

Manufacturer: EDIFIER

Polarization: Vertical

Power Source: AC 120V/60Hz

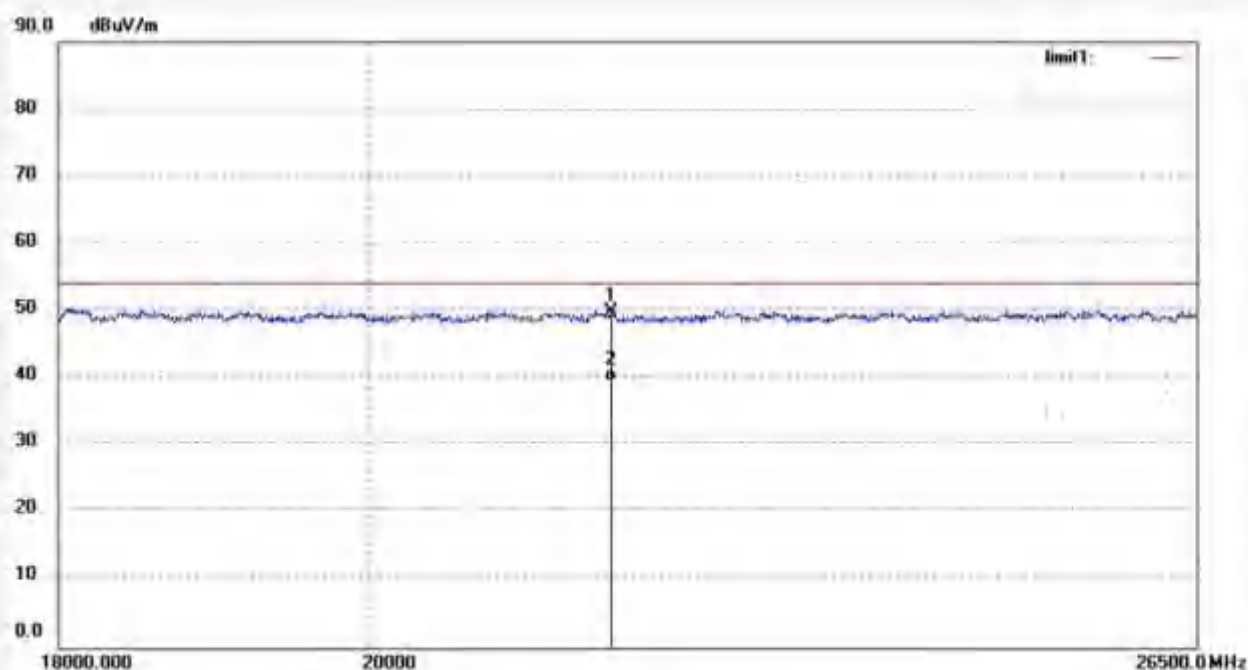
Date: 19/07/07/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	21722.388	17.68	32.08	49.76	74.00	-24.24	peak			
2	21722.388	7.37	32.08	39.45	54.00	-14.55	AVG			

9kHz-30MHz test data: Bluetooth+5.8G Wireless

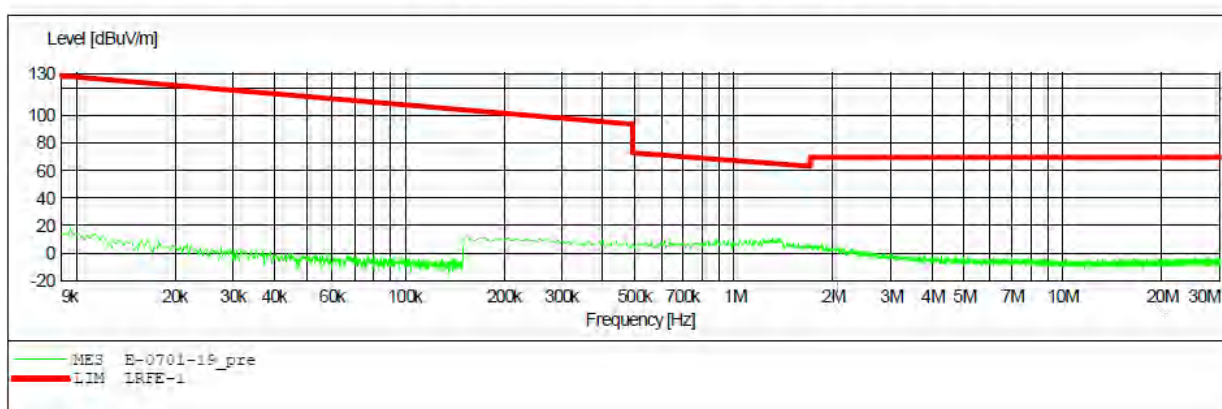
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3M Radiated

EUT: B8 Soundbar Active Speaker system M/N:B8 Soundbar
 Manufacturer: Edifier
 Operating Condition: TX 2402MHz + TX 5731MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: AC 120V/60Hz
 Comment: X
 Start of Test: 2019-7-01 /

SCAN TABLE: "LFRE Fin"

Short Description:			_SUB_STD_VTERM2 1.70				
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer	
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M	
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M	



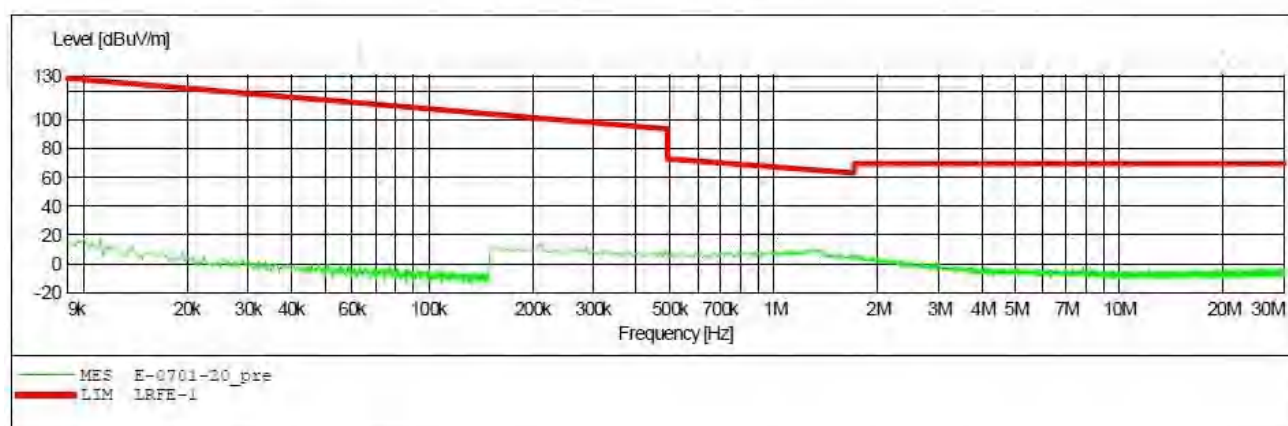
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3M Radiated

EUT: B8 Soundbar Active Speaker system M/N:B8 Soundbar
 Manufacturer: Edifier
 Operating Condition: TX 2402MHz + TX 5731MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: AC 120V/60Hz
 Comment: Y
 Start of Test: 2019-7-01 /

SCAN TABLE: "LFRE Fin"

Short Description:			_SUB_STD_VTERM2 1.70			
Start	Stop	Step	Detector	Meas.	IF	Transducer
Frequency	Frequency	Width		Time	Bandw.	
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



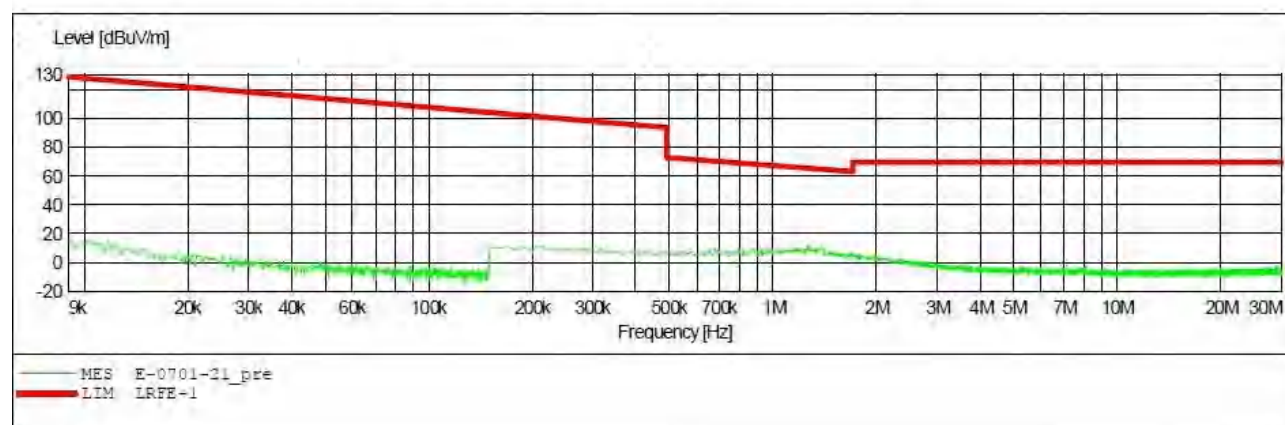
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3M Radiated

EUT: B8 Soundbar Active Speaker system M/N:B8 Soundbar
 Manufacturer: Edifier
 Operating Condition: TX 2402MHz + TX 5731MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: AC 120V/60Hz
 Comment: Z
 Start of Test: 2019-7-01 /

SCAN TABLE: "LFRE Fin"

Short Description:			SUB_STD_VTERM2 1.70		IF	Transducer
Start	Stop	Step	Detector	Meas. Time	Bandw.	
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



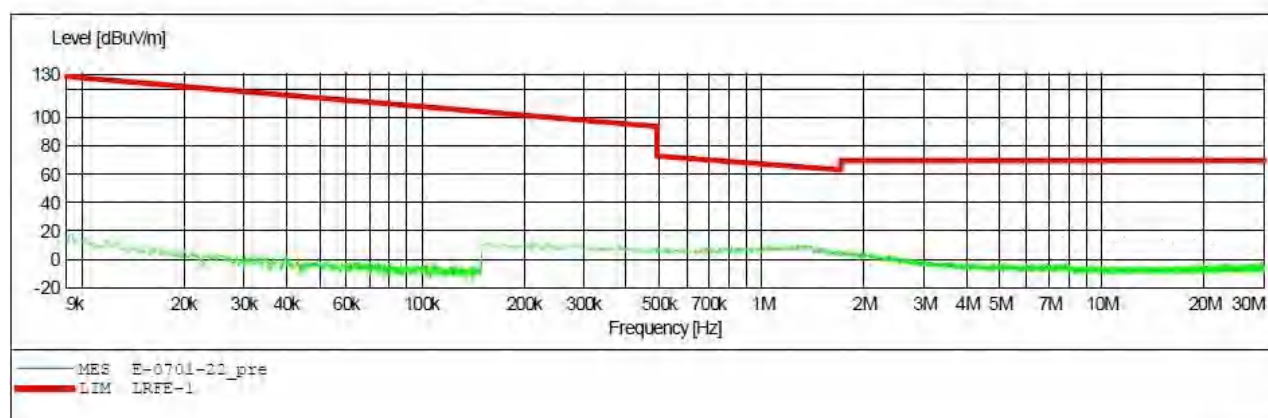
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3M Radiated

EUT: B8 Soundbar Active Speaker system M/N:B8 Soundbar
 Manufacturer: Edifier
 Operating Condition: TX 2441MHz + TX 5773MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: AC 120V/60Hz
 Comment: X
 Start of Test: 2019-7-01 /

SCAN TABLE: "LFRE Fin"

Short Description:			SUB STD VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



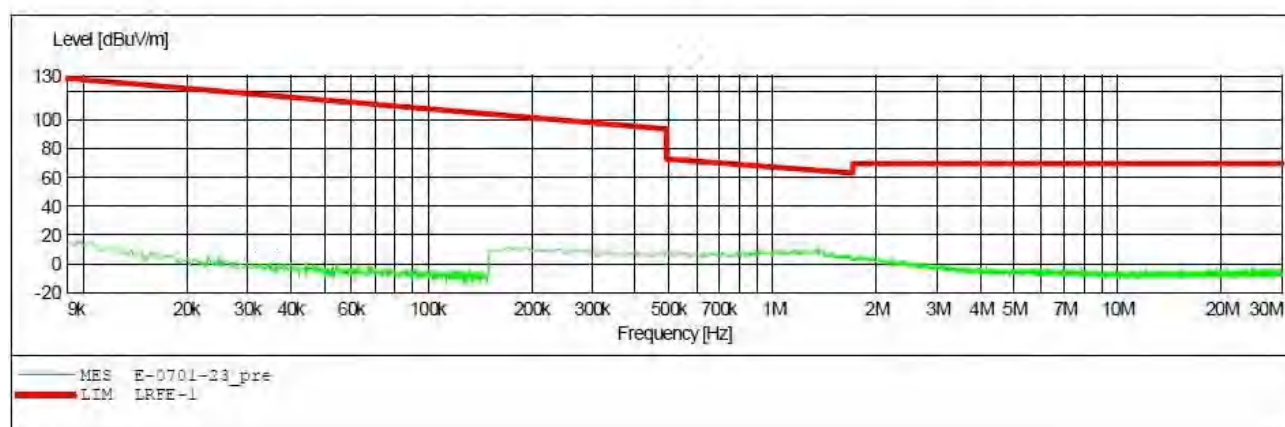
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: B8 Soundbar Active Speaker system M/N:B8 Soundbar
 Manufacturer: Edifier
 Operating Condition: TX 2441MHz + TX 5773MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: AC 120V/60Hz
 Comment: Y
 Start of Test: 2019-7-01 /

SCAN TABLE: "LFRE Fin"

Short Description:			SUB_STD_VTERM2 1.70		IF	Transducer
Start	Stop	Step	Detector	Meas. Time	Bandw.	
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



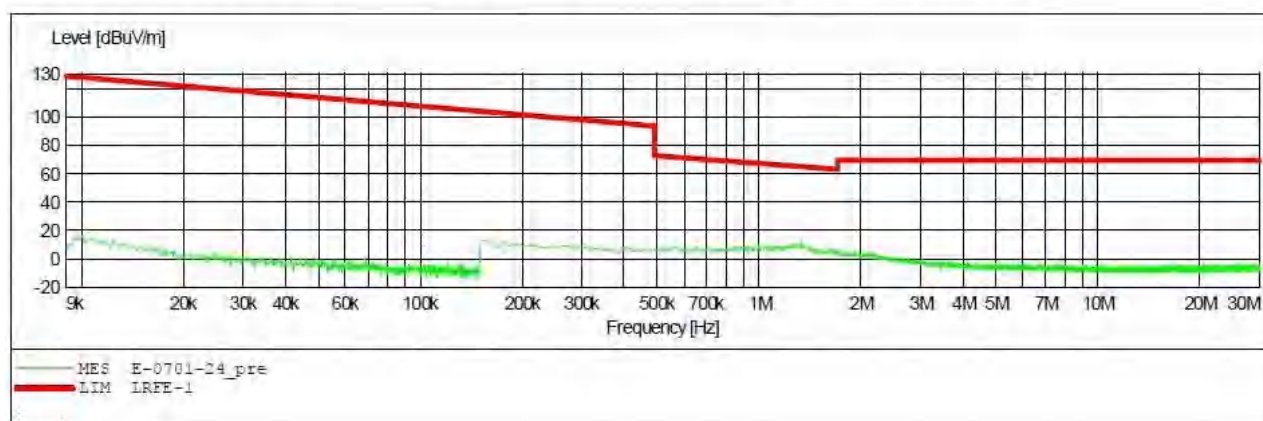
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3M Radiated

EUT: B8 Soundbar Active Speaker system M/N:B8 Soundbar
 Manufacturer: Edifier
 Operating Condition: TX 2441MHz + TX 5773MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: AC 120V/60Hz
 Comment: Z
 Start of Test: 2019-7-01 /

SCAN TABLE: "LFRE Fin"

Short Description:			_SUB_STD VTERM2 1.70				
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer	
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M	
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M	



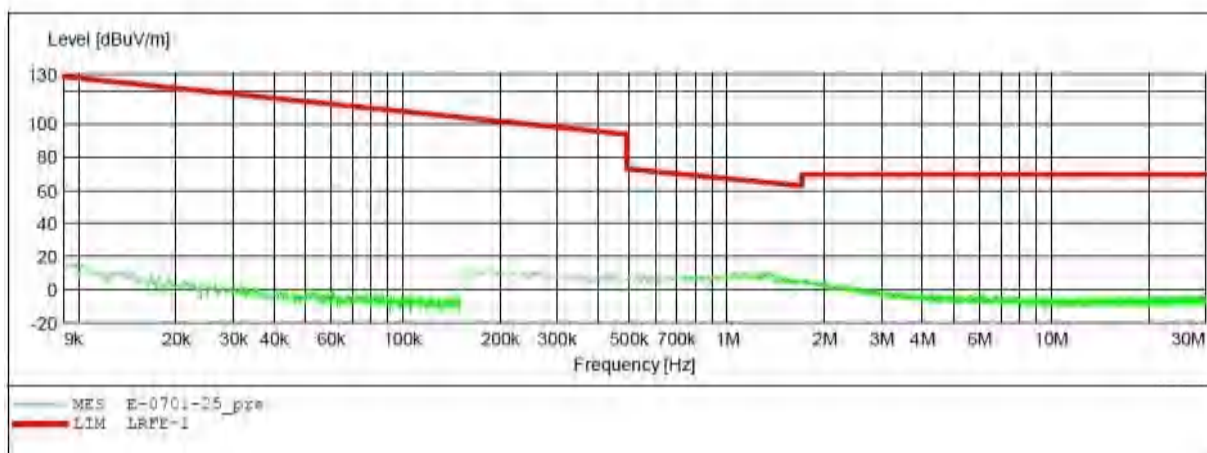
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3M Radiated

EUT: B8 Soundbar Active Speaker system M/N:B8 Soundbar
 Manufacturer: Edifier
 Operating Condition: TX 2480MHz + TX 5820MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: AC 120V/60Hz
 Comment: X
 Start of Test: 2019-7-01 /

SCAN TABLE: "LFRE Fin"

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



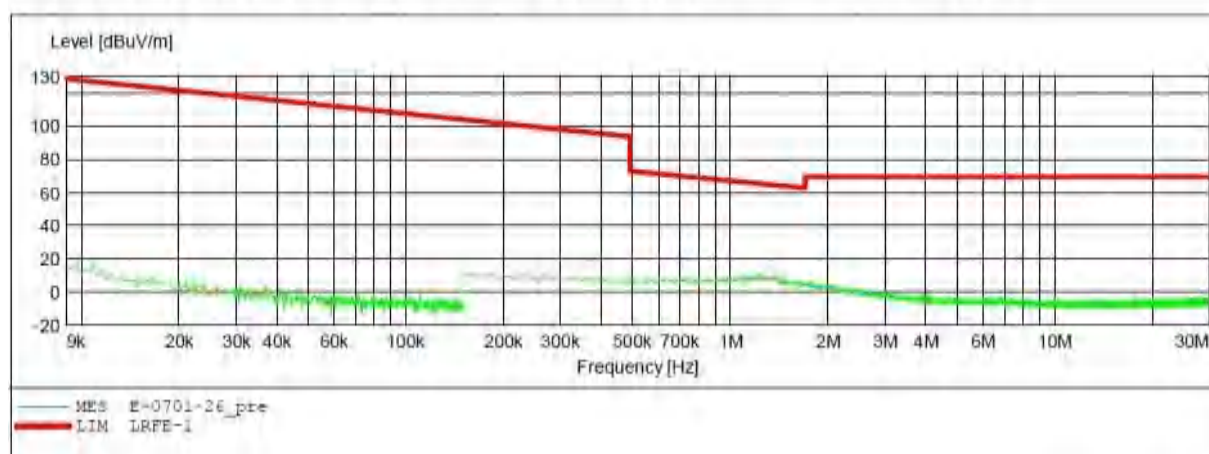
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3M Radiated

EUT: B8 Soundbar Active Speaker system M/N:B8 Soundbar
 Manufacturer: Edifier
 Operating Condition: TX 2480MHz + TX 5820MHz
 Test Site: E# Chamber
 Operator: WADE
 Test Specification: AC 120V/60Hz
 Comment: Y
 Start of Test: 2019-7-01 /

SCAN TABLE: "LFRE Fin"

Short Description:			_SUB_STD_VTERM2 1.70				
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer	
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M	
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M	



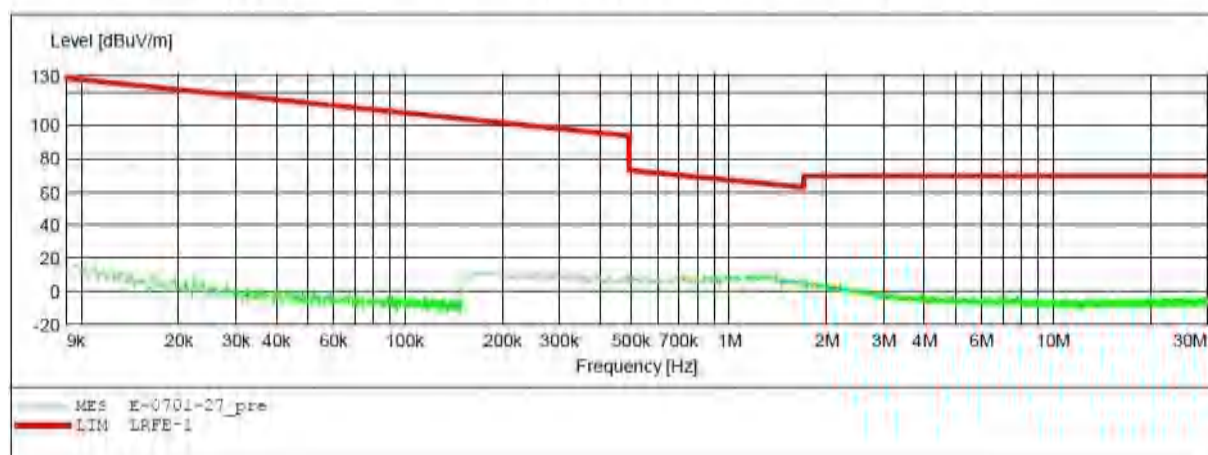
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3M Radiated

EUT: B8 Soundbar Active Speaker system M/N:B8 Soundbar
 Manufacturer: Edifier
 Operating Condition: TX 2480MHz + TX 5820MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: AC 120V/60Hz
 Comment: Z
 Start of Test: 2019-7-01 /

SCAN TABLE: "LFRE Fin"

Short Description: _SUB_STD VTERM2 1.70				Detector	Meas. Time	IF Bandw.	Transducer
Start Frequency	Stop Frequency	Step	Width	QuasiPeak	1.0 s	200 Hz	1516M
9.0 kHz	150.0 kHz	100.0 Hz		QuasiPeak	1.0 s	9 kHz	1516M
150.0 kHz	30.0 MHz	5.0 kHz		QuasiPeak	1.0 s		



30MHz-1GHz test data: Bluetooth+5.8G Wireless



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Job No.: LGW2019 #2773

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: B8 Soundbar Active Speaker system

Mode: TX 2402MHz + TX 5731MHz

Model: B8 Soundbar

Manufacturer: EDIFIER

Polarization: Horizontal

Power Source: AC 120V/60Hz

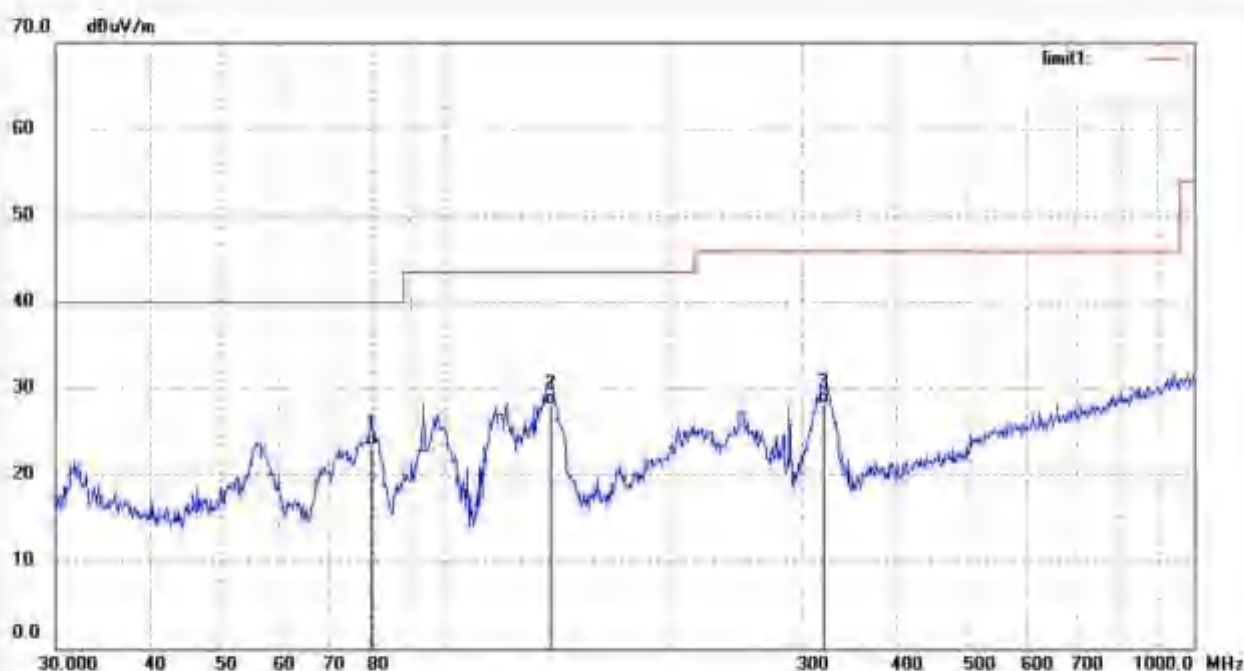
Date: 19/07/07/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	79.5207	39.94	-16.49	23.45	40.00	-16.55	QP			
2	137.9028	42.66	-14.64	28.02	43.50	-15.48	QP			
3	319.9370	36.63	-8.45	28.18	46.00	-17.82	QP			

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Job No.: LGW2019 #2774

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: B8 Soundbar Active Speaker system

Mode: TX 2402MHz + TX 5731MHz

Model: B8 Soundbar

Manufacturer: EDIFIER

Polarization: Vertical

Power Source: AC 120V/60Hz

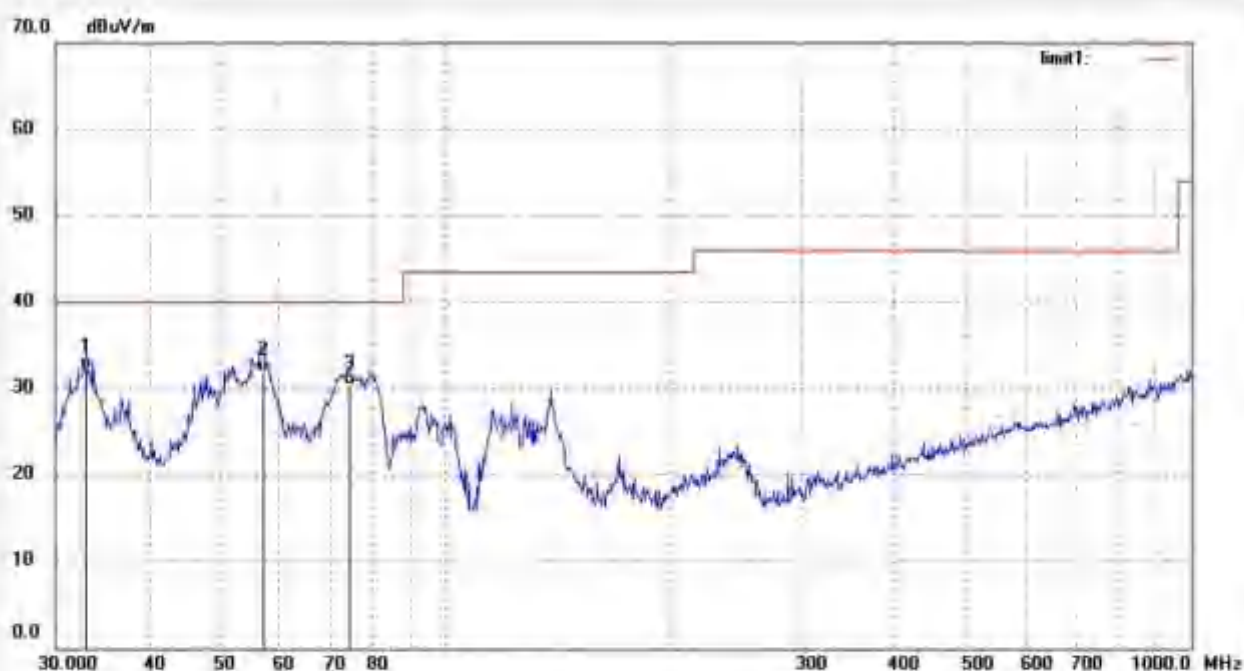
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Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.9791	42.12	-9.82	32.30	40.00	-7.70	QP			
2	56.9911	45.33	-13.33	32.00	40.00	-8.00	QP			
3	74.3953	46.91	-16.63	30.28	40.00	-9.72	QP			

Job No.: LGW2019 #2776

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: B8 Soundbar Active Speaker system

Mode: TX 2441MHz+TX 5773MHz

Model: B8 Soundbar

Manufacturer: EDIFIER

Polarization: Horizontal

Power Source: AC 120V/60Hz

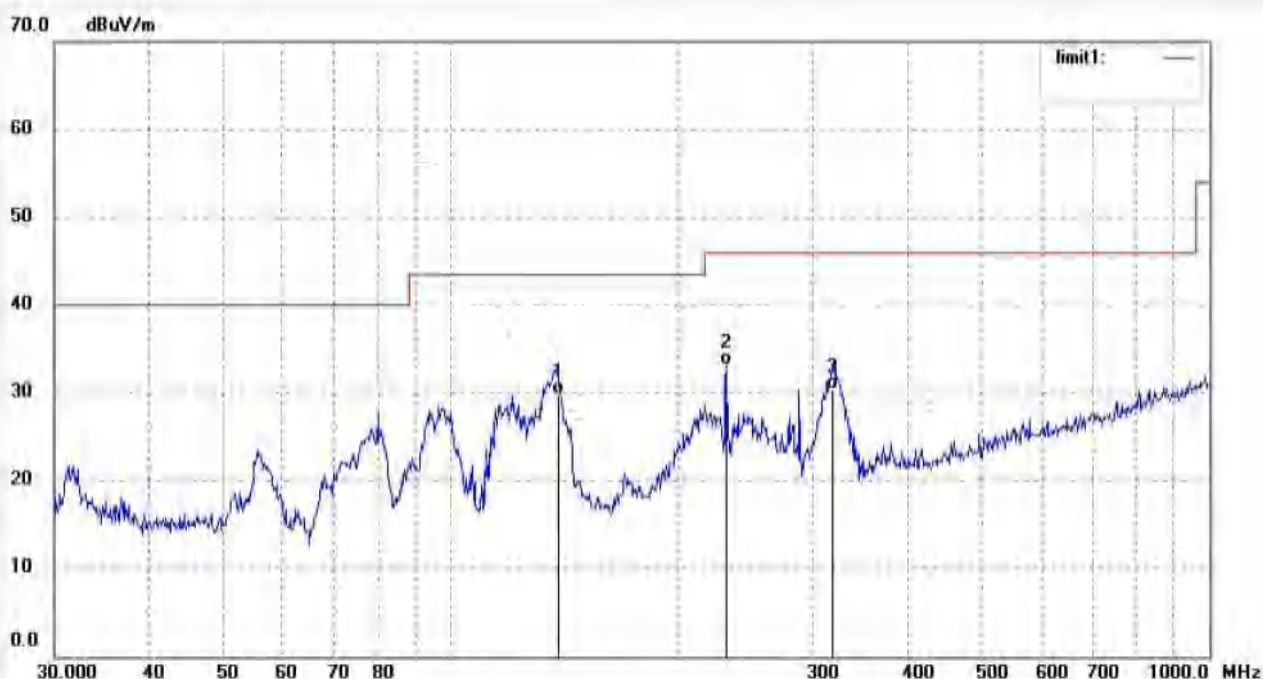
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Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	138.3873	44.66	-14.76	29.90	43.50	-13.60	QP			
2	230.9068	44.13	-11.05	33.08	46.00	-12.92	QP			
3	318.8170	38.88	-8.48	30.40	46.00	-15.60	QP			



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Job No.: LGW2019 #2775

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: B8 Soundbar Active Speaker system

Mode: TX 2441MHz+TX 5773MHz

Model: B8 Soundbar

Manufacturer: EDIFIER

Polarization: Vertical

Power Source: AC 120V/60Hz

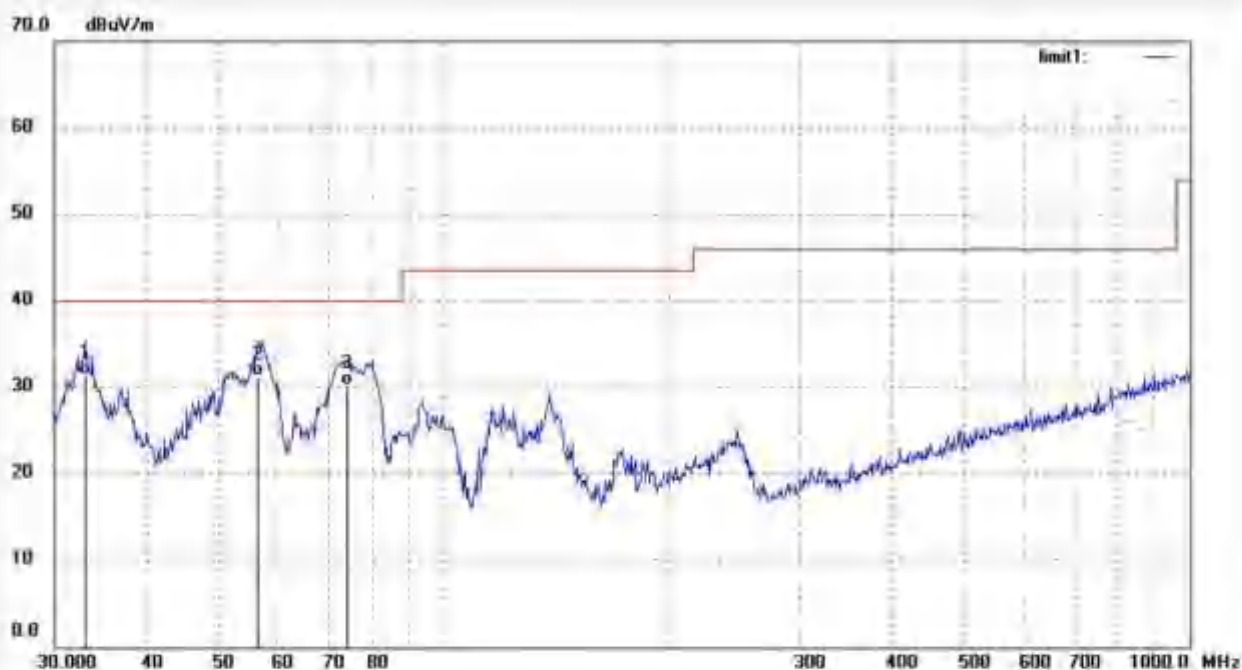
Date: 19/07/07/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.9791	41.31	-9.82	31.49	40.00	-8.51	QP			
2	56.1974	44.50	-13.18	31.32	40.00	-8.68	QP			
3	74.1350	46.80	-16.59	30.21	40.00	-9.79	QP			



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Job No.: LGW2019 #2777

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: B8 Soundbar Active Speaker system

Mode: TX 2480MHz+TX 5820MHz

Model: B8 Soundbar

Manufacturer: EDIFIER

Polarization: Horizontal

Power Source: AC 120V/60Hz

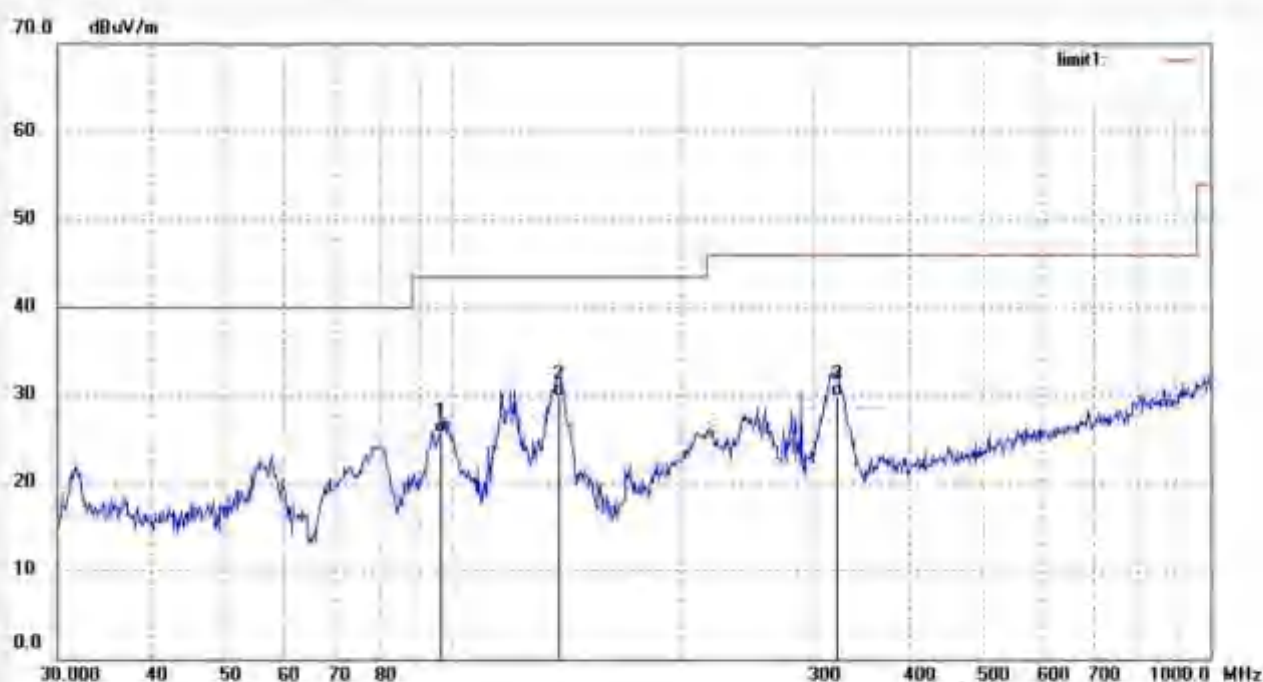
Date: 19/07/07/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	96.4360	39.82	-14.25	25.57	43.50	-17.93	QP			
2	137.9028	44.43	-14.64	29.79	43.50	-13.71	QP			
3	322.1886	38.20	-8.36	29.84	46.00	-16.16	QP			

Job No.: LGW2019 #2778

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: B8 Soundbar Active Speaker system

Mode: TX 2480MHz+TX 5820MHz

Model: B8 Soundbar

Manufacturer: EDIFIER

Polarization: Vertical

Power Source: AC 120V/60Hz

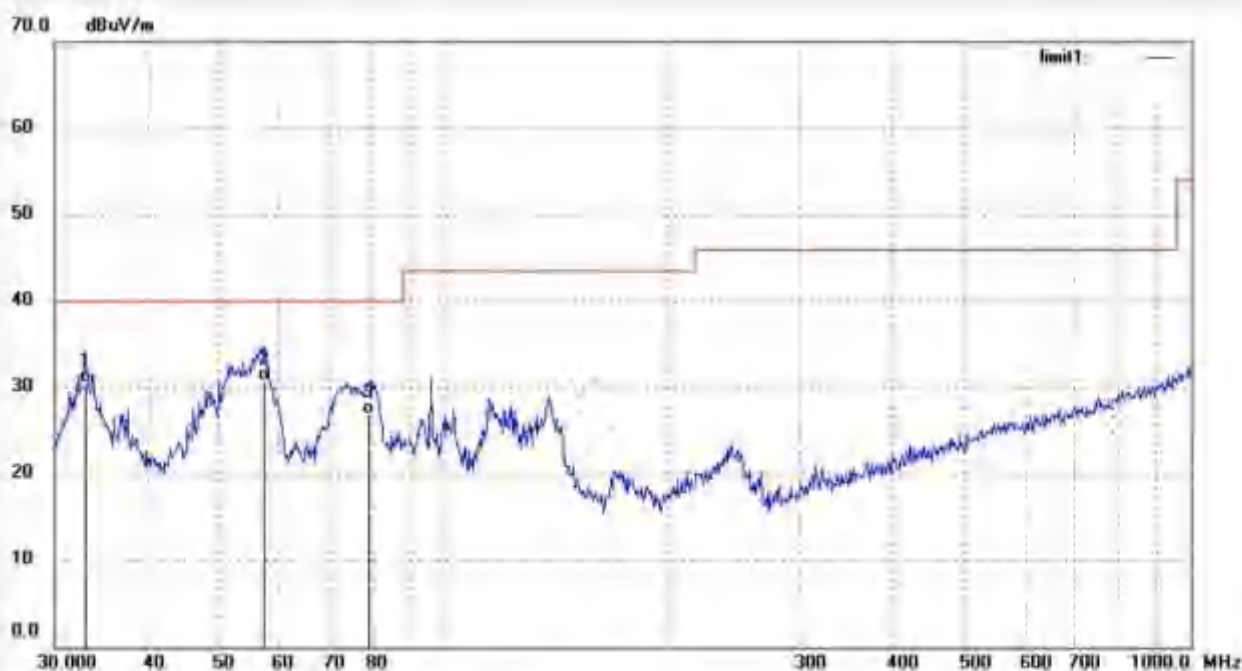
Date: 19/07/07/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.9791	40.28	-9.82	30.46	40.00	-9.54	QP			
2	57.3922	44.14	-13.41	30.73	40.00	-9.27	QP			
3	79.2425	43.30	-16.51	26.79	40.00	-13.21	QP			

1GHz-18GHz test data: Bluetooth+5.8G Wireless



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Job No.: LGW2019 #2779

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: B8 Soundbar Active Speaker system

Mode: TX 2402MHz+TX 5731MHz

Model: B8 Soundbar

Manufacturer: EDIFIER

Polarization: Horizontal

Power Source: AC 120V/60Hz

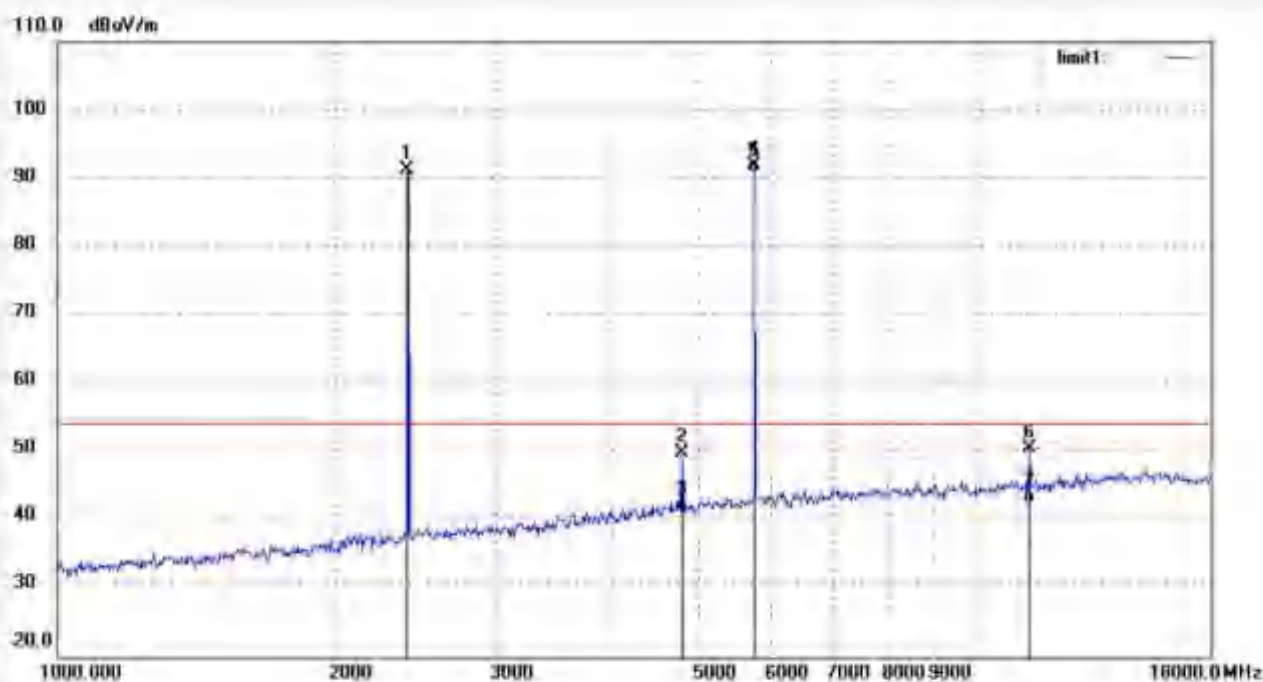
Date: 19/07/07/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg)	Remark
1	2402.000	90.37	0.89	91.26	/	/	peak			
2	4804.026	42.31	7.40	49.71	74.00	-24.29	peak			
3	4804.026	33.87	7.40	41.27	54.00	-12.73	AVG			
4	5731.000	81.79	10.18	91.97	114.00	-22.03	peak			
5	5731.000	80.49	10.18	90.67	94.00	-3.33	AVG			
6	11462.238	34.86	15.55	50.41	74.00	-23.59	peak			
7	11462.238	26.80	15.55	42.35	54.00	-11.65	AVG			

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Job No.: LGW2019 #2780

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: B8 Soundbar Active Speaker system

Mode: TX 2402MHz+TX 5731MHz

Model: B8 Soundbar

Manufacturer: EDIFIER

Polarization: Vertical

Power Source: AC 120V/60Hz

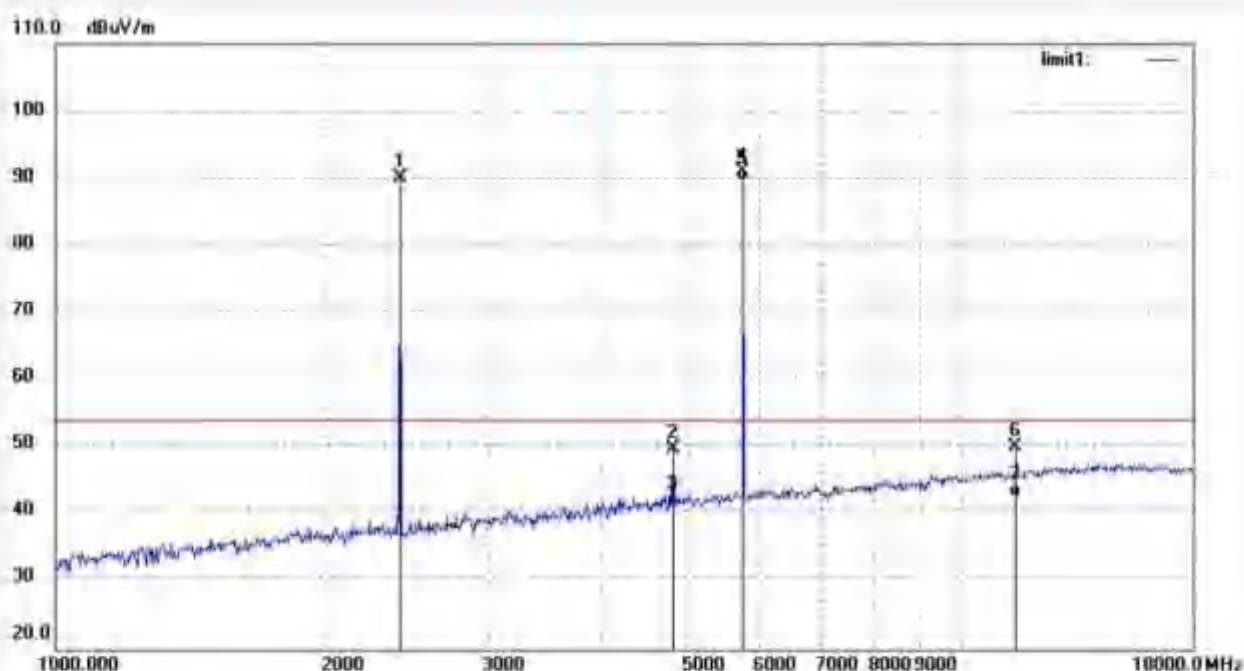
Date: 19/07/07/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	89.17	0.89	90.06	/	/	peak			
2	4804.027	42.42	7.40	49.82	74.00	-24.18	peak			
3	4804.027	33.95	7.40	41.35	54.00	-12.65	AVG			
4	5731.000	80.80	10.18	90.98	114.00	-23.02	peak			
5	5731.000	79.50	10.18	89.68	94.00	-4.32	AVG			
6	11462.242	34.60	15.55	50.15	74.00	-23.85	peak			
7	11462.242	27.02	15.55	42.57	54.00	-11.43	AVG			

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Job No.: LGW2019 #2782

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: B8 Soundbar Active Speaker system

Mode: TX 2441MHz+TX 5773MHz

Model: B8 Soundbar

Manufacturer: EDIFIER

Polarization: Horizontal

Power Source: AC 120V/60Hz

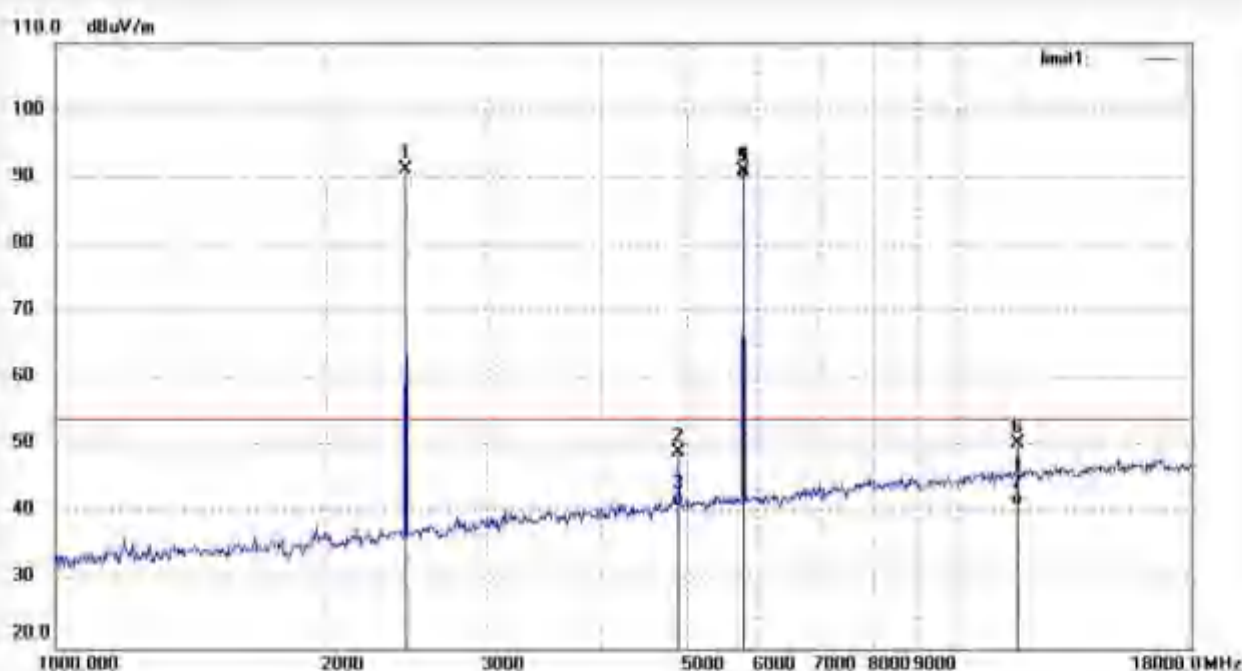
Date: 19/07/07/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2441.000	90.14	1.06	91.20	/	/	peak			
2	4882.025	41.03	8.11	49.14	74.00	-24.86	peak			
3	4882.025	33.24	8.11	41.35	54.00	-12.65	AVG			
4	5773.000	80.57	10.44	91.01	114.00	-22.99	peak			
5	5773.000	79.37	10.44	89.81	94.00	-4.19	AVG			
6	11546.233	34.89	15.70	50.59	74.00	-23.41	peak			
7	11546.233	25.83	15.70	41.33	54.00	-12.67	AVG			

Job No.: LGW2019 #2781

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: B8 Soundbar Active Speaker system

Mode: TX 2441MHz+TX 5773MHz

Model: B8 Soundbar

Manufacturer: EDIFIER

Polarization: Vertical

Power Source: AC 120V/60Hz

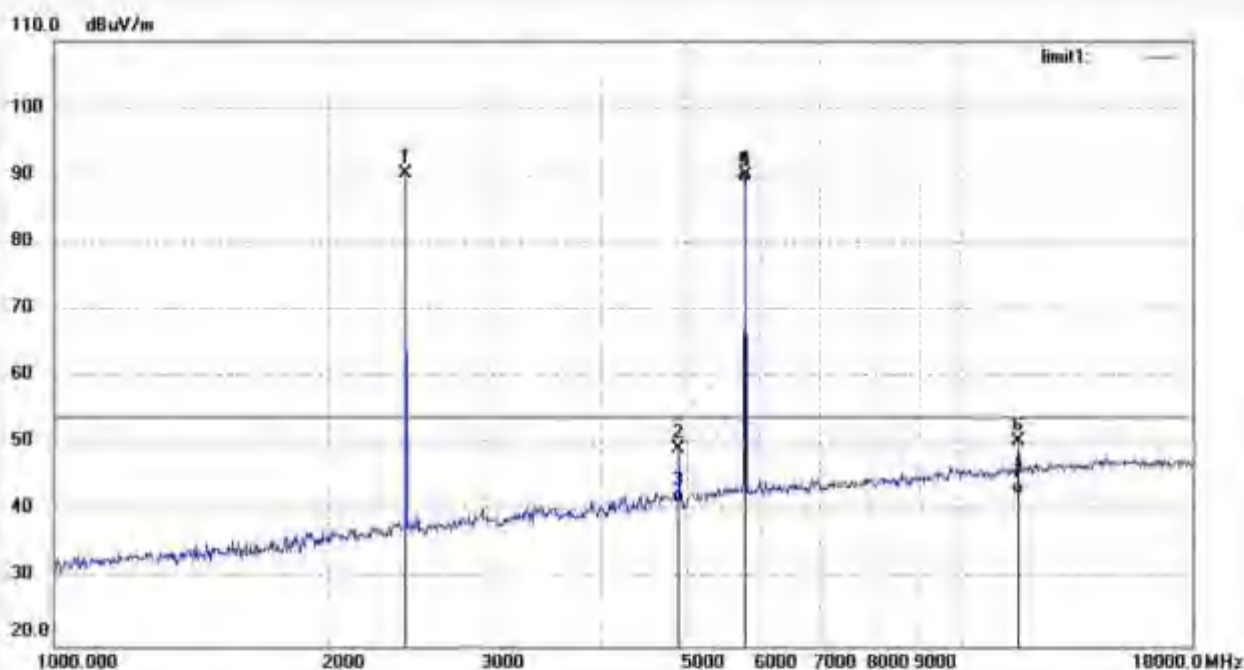
Date: 19/07/07/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2441.000	89.27	1.06	90.33	/	/	peak			
2	4882.028	41.23	8.11	49.34	74.00	-24.66	peak			
3	4882.028	33.46	8.11	41.57	54.00	-12.43	AVG			
4	5773.000	79.64	10.44	90.08	114.00	-23.92	peak			
5	5773.000	78.44	10.44	88.88	94.00	-5.12	AVG			
6	11546.247	34.83	15.70	50.53	74.00	-23.47	peak			
7	11546.247	26.87	15.70	42.57	54.00	-11.43	AVG			

Job No.: LGW2019 #2783

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: B8 Soundbar Active Speaker system

Mode: TX 2480MHz+TX 5820MHz

Model: B8 Soundbar

Manufacturer: EDIFIER

Polarization: Horizontal

Power Source: AC 120V/60Hz

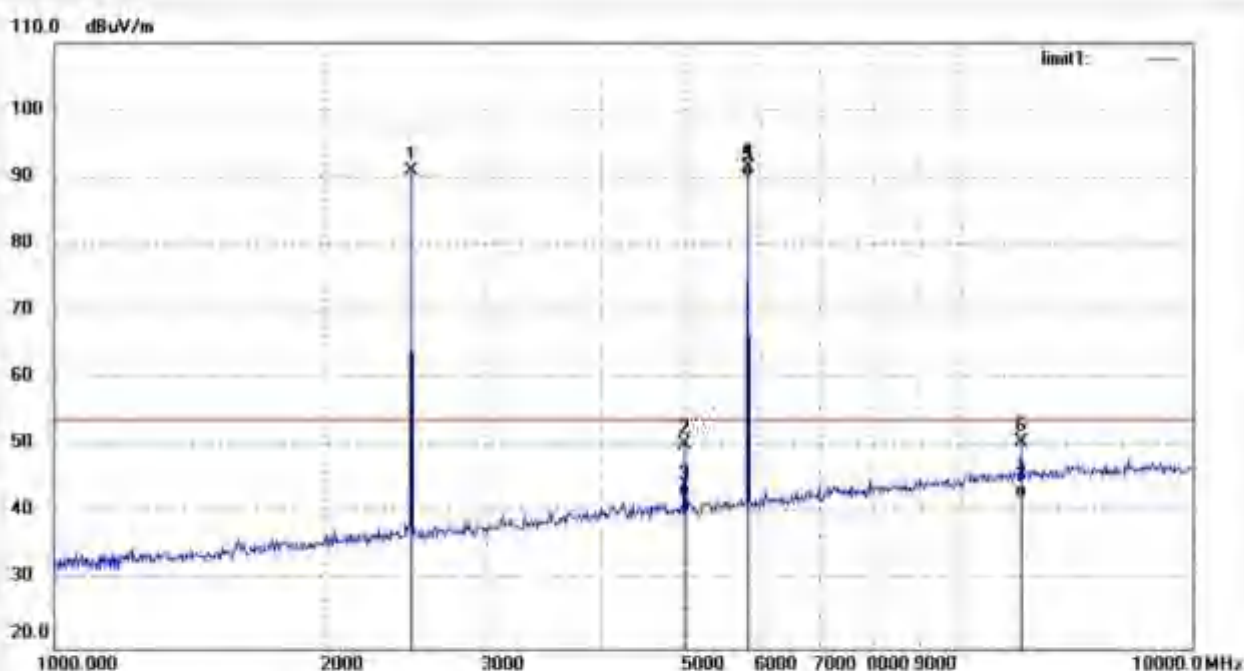
Date: 19/07/07/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	89.79	1.10	90.89	/	/	peak			
2	4960.027	41.65	8.60	50.25	74.00	-23.75	peak			
3	4960.027	33.98	8.60	42.58	54.00	-11.42	AVG			
4	5820.000	80.84	10.66	91.50	114.00	-22.50	peak			
5	5820.000	79.44	10.66	90.10	94.00	-3.90	AVG			
6	11640.243	34.49	16.16	50.65	74.00	-23.35	peak			
7	11640.243	26.19	16.16	42.35	54.00	-11.65	AVG			

Job No.: LGW2019 #2784

Standard: FCC Class B 3M Radiated

Test Item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: B8 Soundbar Active Speaker system

Mode: TX 2480MHz+TX 5820MHz

Model: B8 Soundbar

Manufacturer: EDIFIER

Polarization: Vertical

Power Source: AC 120V/60Hz

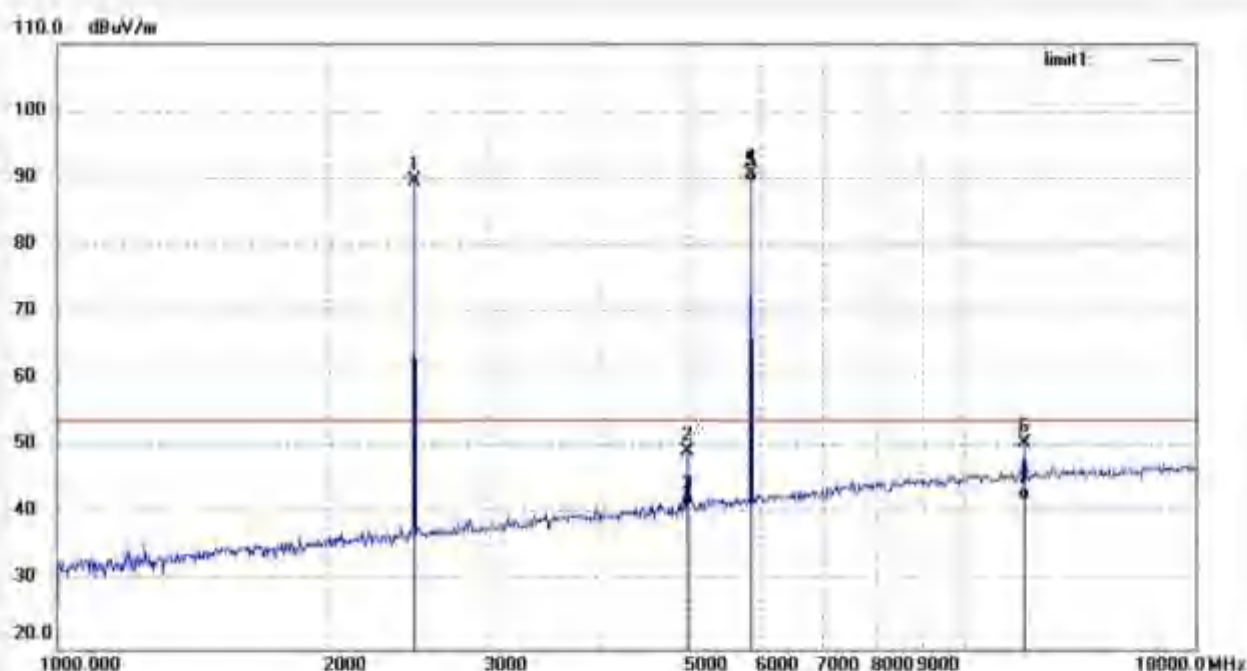
Date: 19/07/07/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	89.50	1.10	89.60	/	/	peak			
2	4960.029	40.68	8.60	49.28	74.00	-24.72	peak			
3	4960.029	32.75	8.60	41.35	54.00	-12.65	AVG			
4	5820.000	80.17	10.66	90.83	114.00	-23.17	peak			
5	5820.000	78.77	10.66	89.43	94.00	-4.57	AVG			
6	11640.246	34.65	16.16	50.81	74.00	-23.19	peak			
7	11640.246	25.98	16.16	42.14	54.00	-11.86	AVG			

18GHz-26.5GHz test data: Bluetooth+5.8G Wireless



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Job No.: LGW2019 #2786

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: B8 Soundbar Active Speaker system

Mode: TX 2402MHz+TX 5731MHz

Model: B8 Soundbar

Manufacturer: EDIFIER

Polarization: Horizontal

Power Source: AC 120V/60Hz

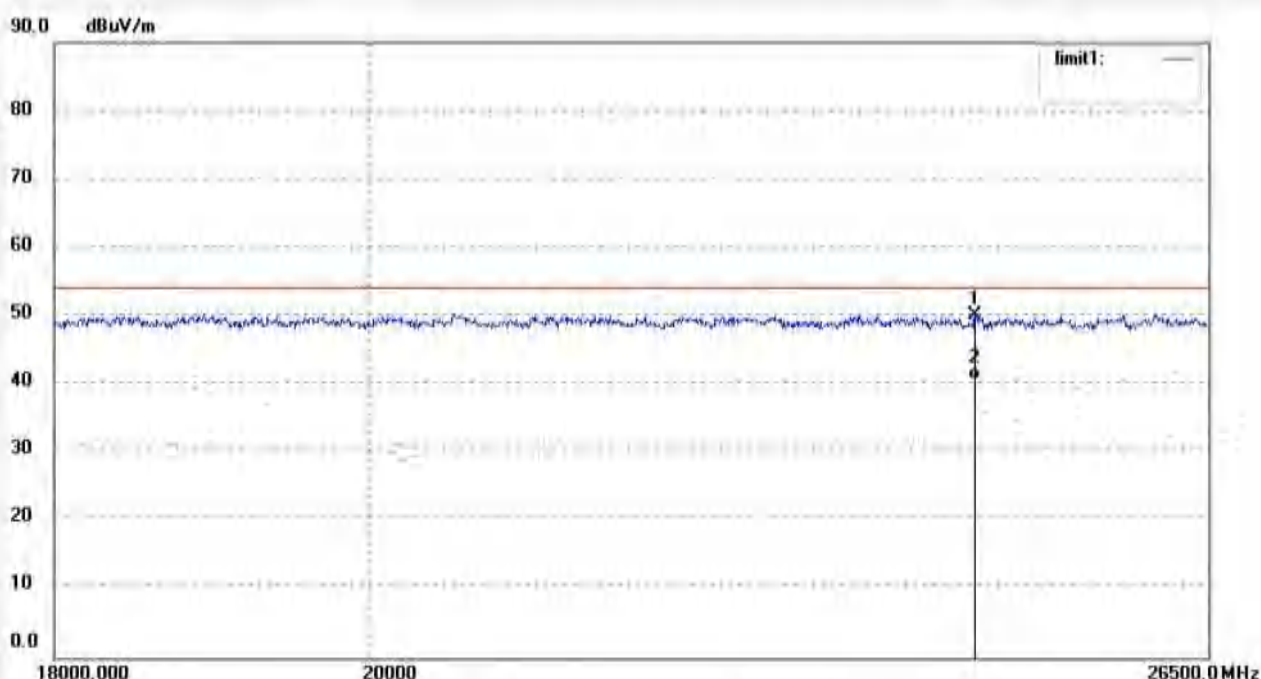
Date: 19/07/07/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24508.417	17.93	32.15	50.08	74.00	-23.92	peak			
2	24508.417	8.50	32.15	40.65	54.00	-13.35	AVG			

Job No.: LGW2019 #2785

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: B8 Soundbar Active Speaker system

Mode: TX 2402MHz+TX 5731MHz

Model: B8 Soundbar

Manufacturer: EDIFIER

Polarization: Vertical

Power Source: AC 120V/60Hz

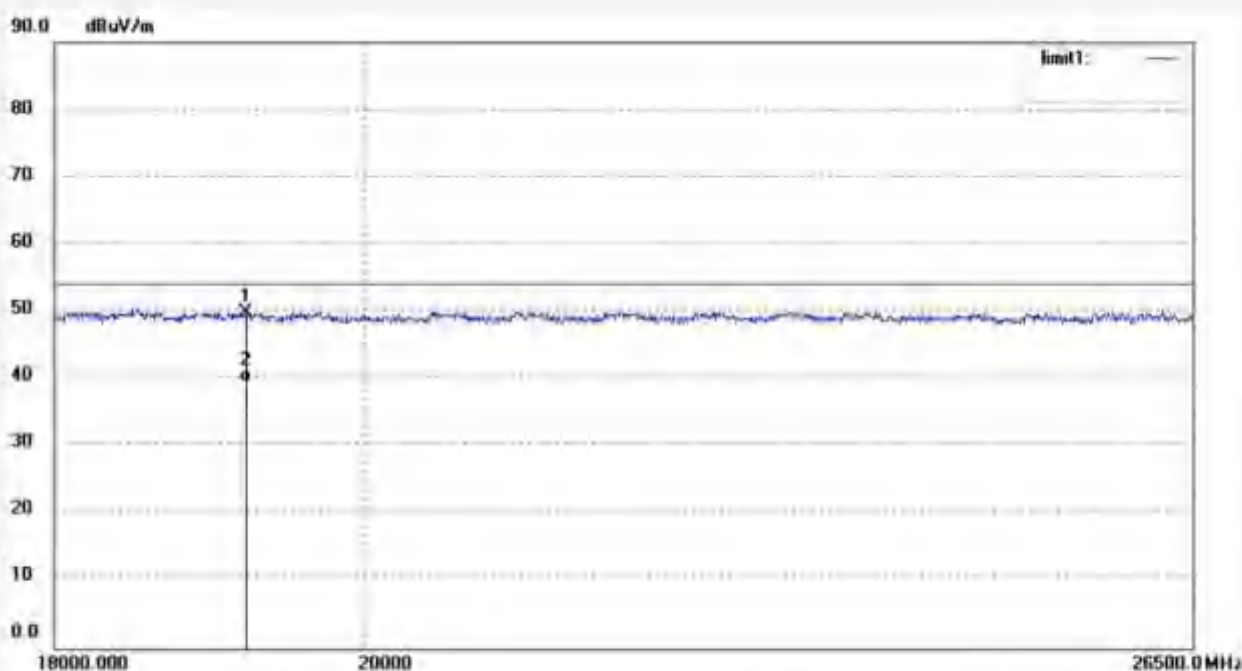
Date: 19/07/07/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	19215.868	18.67	31.20	49.87	74.00	-24.13	peak			
2	19215.868	8.25	31.20	39.45	54.00	-14.55	AVG			

Job No.: LGW2019 #2787

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: B8 Soundbar Active Speaker system

Mode: TX 2441MHz+TX 5773MHz

Model: B8 Soundbar

Manufacturer: EDIFIER

Polarization: Horizontal

Power Source: AC 120V/60Hz

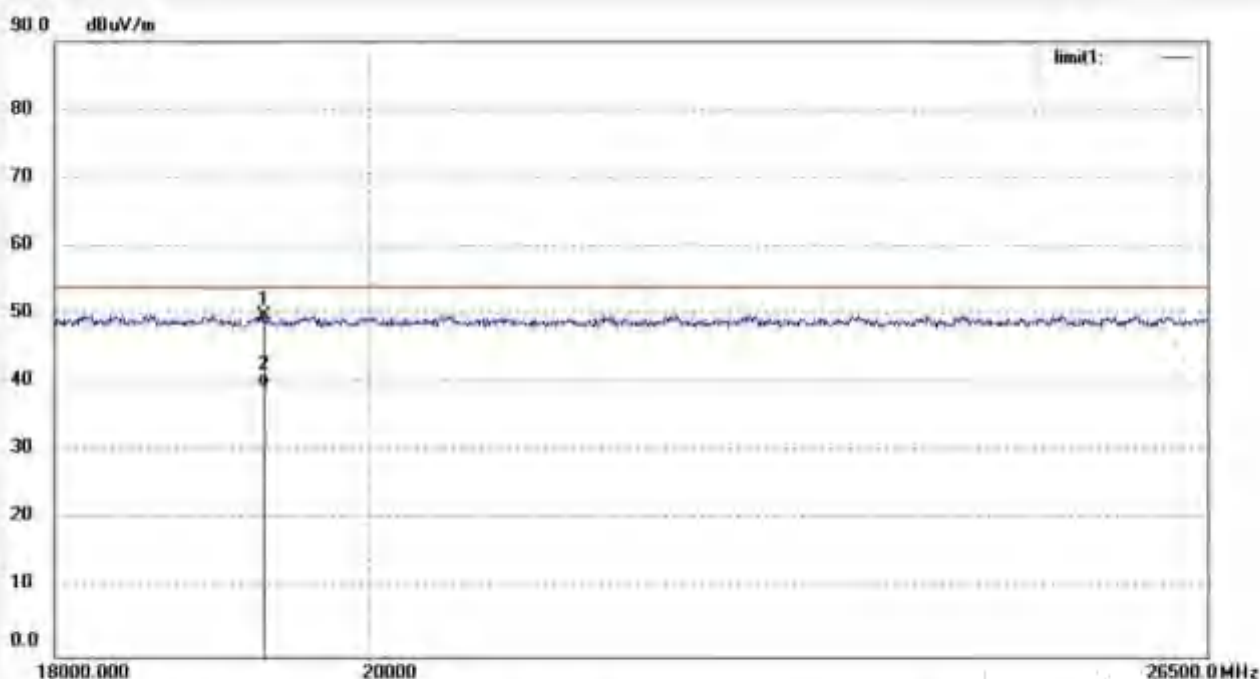
Date: 19/07/07/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	19312.730	19.05	30.70	49.75	74.00	-24.25	peak			
2	19312.730	8.87	30.70	39.57	54.00	-14.43	AVG			

Job No.: LGW2019 #2788

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: B8 Soundbar Active Speaker system

Mode: TX 2441MHz+TX 5773MHz

Model: B8 Soundbar

Manufacturer: EDIFIER

Polarization: Vertical

Power Source: AC 120V/60Hz

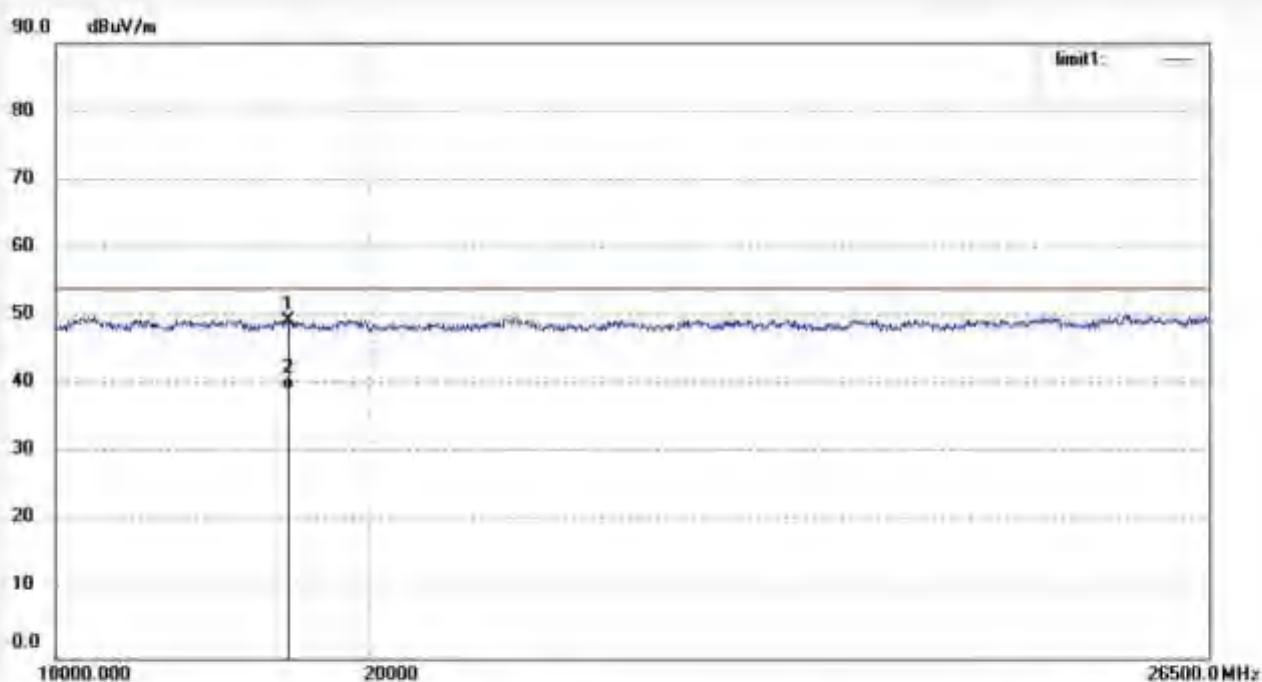
Date: 19/07/07/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	19462.702	18.14	31.25	49.39	74.00	-24.61	peak			
2	19462.702	7.98	31.25	39.23	54.00	-14.77	AVG			

Job No.: LGW2019 #2790

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: B8 Soundbar Active Speaker system

Mode: TX 2480MHz+TX 5820MHz

Model: B8 Soundbar

Manufacturer: EDIFIER

Polarization: Horizontal

Power Source: AC 120V/60Hz

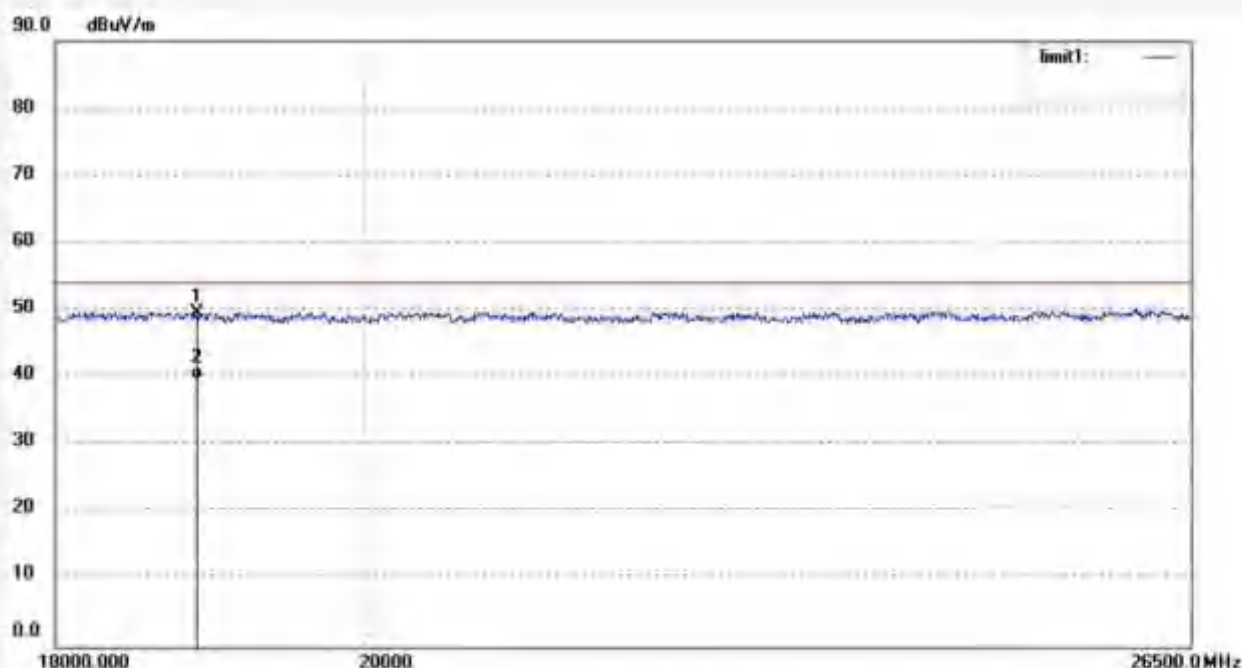
Date: 19/07/07/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	18891.619	19.21	30.42	49.63	74.00	-24.37	peak			
2	18891.619	9.33	30.42	39.75	54.00	-14.25	AVG			

Job No.: LGW2019 #2789

Standard: FCC Class B 3M Radiated

Test Item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: B8 Soundbar Active Speaker system

Mode: TX 2480MHz+TX 5820MHz

Model: B8 Soundbar

Manufacturer: EDIFIER

Polarization: Vertical

Power Source: AC 120V/60Hz

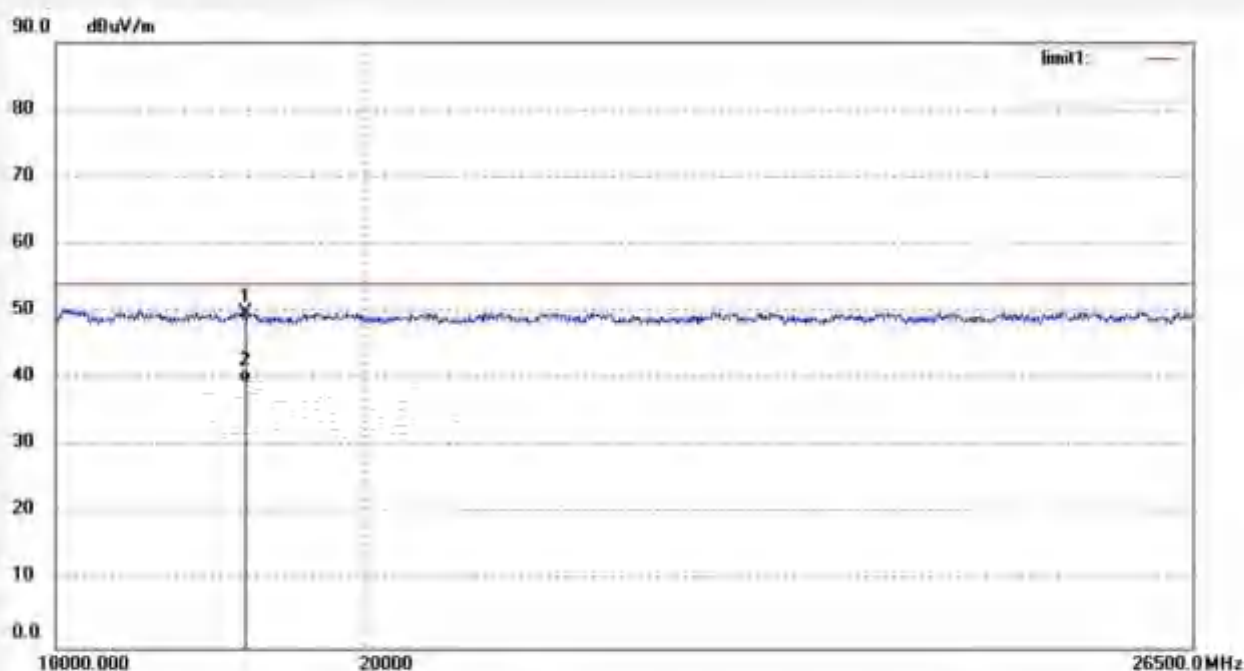
Date: 19/07/07/

Time:

Engineer Signature: WADE

Distance: 3m

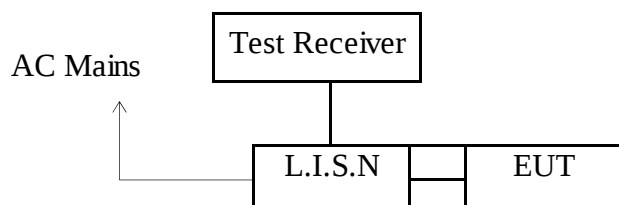
Note:



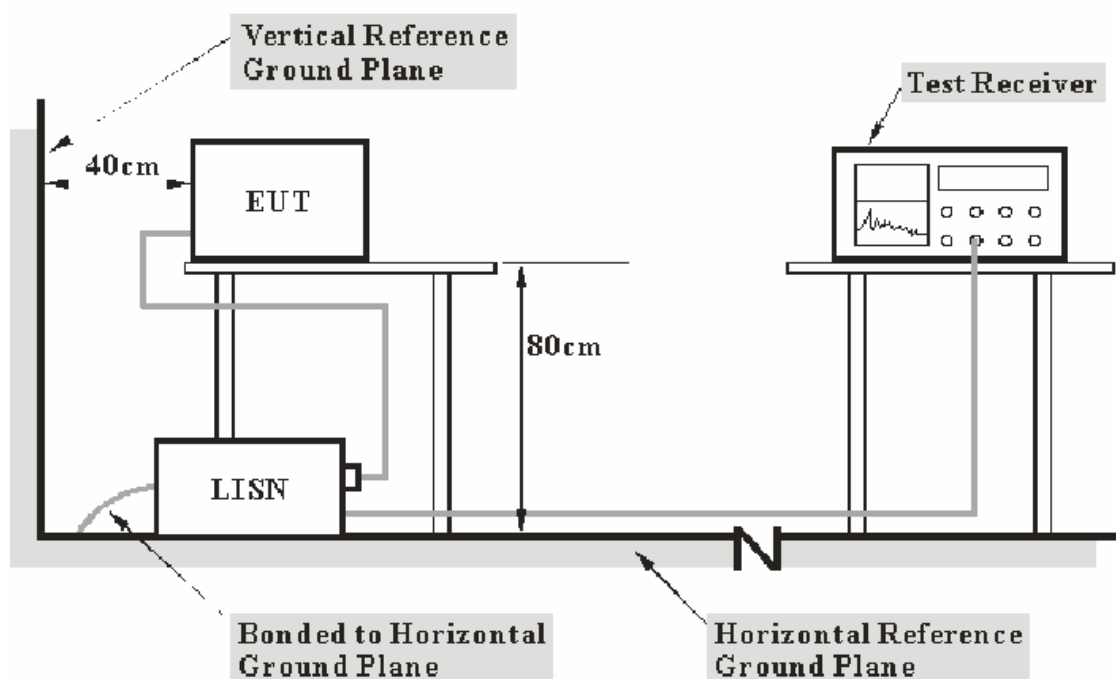
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	19201.009	18.58	31.20	49.78	74.00	-24.22	peak			
2	19201.009	8.37	31.20	39.57	54.00	-14.43	AVG			

13.AC POWER LINE CONDUCTED EMISSION TEST

13.1. Block Diagram of Test Setup



13.2. Test System Setup



- Note:**
1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

13.3. The Limits for FCC Section 15.207 & RSS-Gen Section 8.8

Frequency (MHz)	Limit dB(μ V)	
	Quasi-peak Level	Average Level
0.15 - 0.50	66.0 – 56.0 *	56.0 – 46.0 *
0.50 - 5.00	56.0	46.0
5.00 - 30.00	60.0	50.0
NOTE1: The lower limit shall apply at the transition frequencies.		
NOTE2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.		

13.4. Configuration of EUT on Measurement

The equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

13.5. Operating Condition of EUT

13.5.1. Setup the EUT and simulator as shown as Section 13.1.

13.5.2. Turn on the power of all equipment.

13.5.3. Let the EUT work in test mode and measure it.

13.6. Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4: 2014 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

13.7. Data Sample

Frequency (MHz)	Transducer value (dB)	QuasiPeak Level (dBμV)	Average Level (dBμV)	QuasiPeak Limit (dBμV)	Average Limit (dBμV)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark (Pass/Fail)
X.XX	10.5	51.1	34.2	56.0	46.0	4.9	11.8	Pass

Frequency(MHz) = Emission frequency in MHz

Transducer value(dB) = Insertion loss of LISN + Cable Loss

Level(dBμV) = Quasi-peak Reading/Average Reading + Transducer value

Limit (dBμV) = Limit stated in standard

Margin = Limit (dBμV) - Level (dBμV)

Calculation Formula:

Margin = Limit (dBμV) - Level (dBμV)

13.8. Test Results

Pass.

The frequency range from 150kHz to 30MHz is checked.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

Emissions attenuated more than 20 dB below the permissible value are not reported.

All data was recorded in the Quasi-peak and average detection mode.

The spectral diagrams are attached as below.

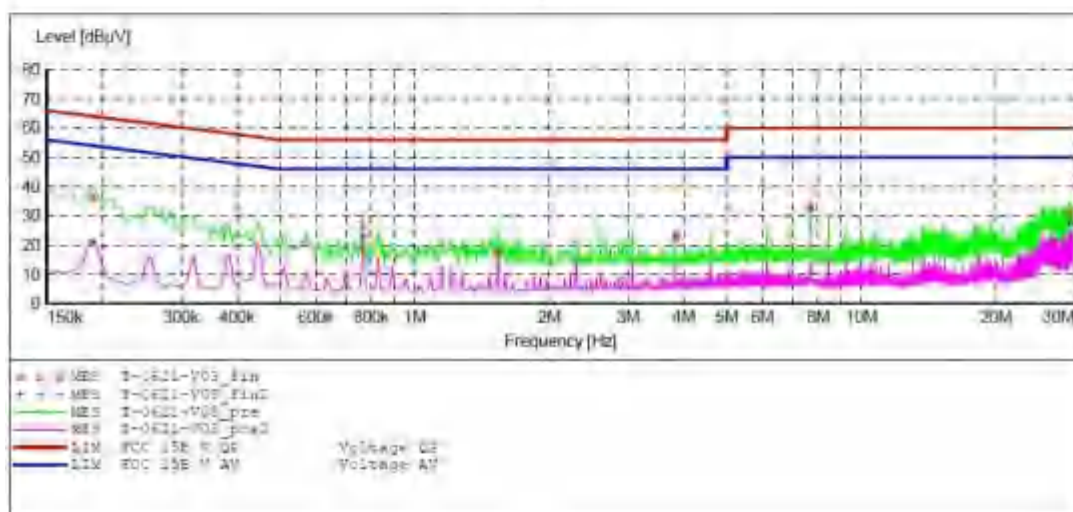
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15 C

EUT: B9 Soundbar Active Speaker system M/N:B5(B9 Soundbar)
 Manufacturer: Edifier
 Operating Condition: Wireless communication
 Test Site: i#Shielding Room
 Operator: WADE
 Test Specification: N 120V/60Hz
 Comment: Mains port
 Start of Test: 6/21/2019 /

SCAN TABLE: "V 9K-30MHz_fin"

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
150.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	NSLK0126 2000
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	NSLK0126 2000
Average						



MEASUREMENT RESULT: "T-0621-V03_fin"

6/21/2019

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PS
0.190000	36.60	10.5	64	27.4	QP	N	GND
0.765000	26.80	10.6	56	29.2	QP	N	GND
1.530000	27.40	10.7	56	38.6	QP	N	GND
3.840000	22.90	10.8	56	33.1	QP	N	GND
7.680000	33.40	10.9	60	26.6	QP	N	GND
29.185000	30.70	11.0	60	29.3	QP	N	GND

MEASUREMENT RESULT: "T-0621-V03_fin2"

6/21/2019

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PS
0.190000	20.70	10.5	54	33.3	AV	N	GND
0.765000	22.80	10.6	46	23.2	AV	N	GND
1.535000	27.70	10.7	46	28.3	AV	N	GND
3.840000	22.80	10.8	46	23.2	AV	N	GND
7.680000	32.40	10.9	50	17.6	AV	N	GND
29.185000	27.40	11.0	50	22.6	AV	N	GND

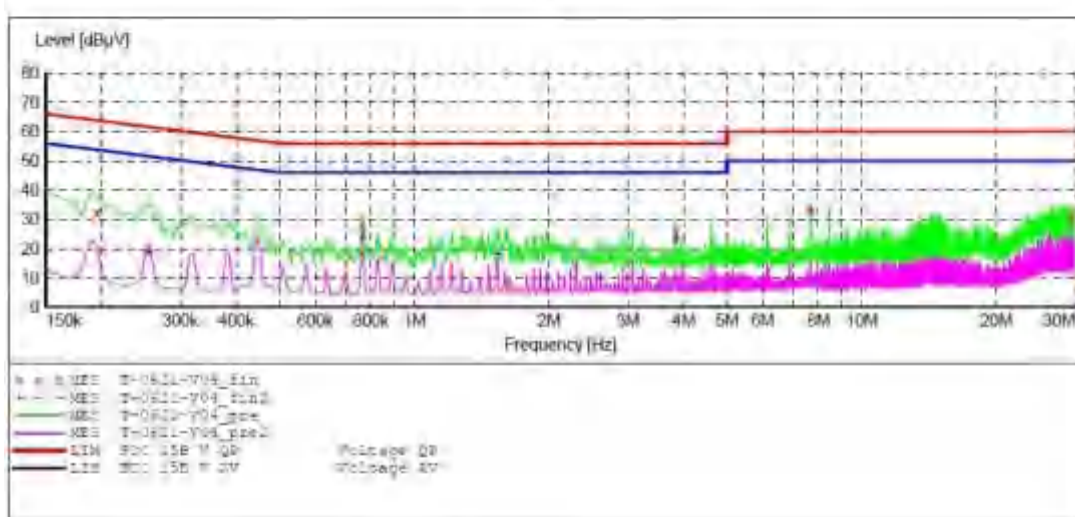
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15 C

EUT: 88 Soundbar Active Speaker system M/N:B8(B8 Soundbar)
 Manufacturer: Edifier
 Operating Condition: Wireless communication
 Test Site: J#Shielding Room
 Operator: WADE
 Test Specification: 1 120V/60Hz
 Comment: Mains port
 Start of Test: 6/21/2019 /

SCAN TABLE: "V 9K-30MHz fin"

Short Description: SUB STD VTERM 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz NSLK0126 2008
 Average
 150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz NSLK0126 2008
 Average



MEASUREMENT RESULT: "T-0621-V04_fin"

6/21/2019

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.135000	32.40	10.5	64	31.4	QP	L1	GND
0.785000	27.70	10.6	50	28.3	QP	L1	GND
1.620000	8.30	10.7	56	47.7	QP	L1	GND
3.840000	25.90	10.8	56	30.1	QP	L1	GND
7.680000	33.20	10.9	60	26.8	QP	L1	GND
15.360000	31.80	11.0	60	28.9	QP	L1	GND

MEASUREMENT RESULT: "T-0621-V04_fin2"

6/21/2019

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.135000	18.90	10.5	52	32.7	AV	L1	GND
0.785000	23.90	10.6	46	22.1	AV	L1	GND
1.620000	19.20	10.7	46	27.8	AV	L1	GND
3.840000	23.30	10.8	46	22.7	AV	L1	GND
7.680000	32.80	10.9	50	17.2	AV	L1	GND
15.360000	28.20	11.0	50	21.8	AV	L1	GND

14.ANTENNA REQUIREMENT

14.1. The Requirement

According to Section 15.203 and RSS GEN 6.8, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

14.2. Antenna Construction

Device is equipped with permanent attached antenna, which isn't displaced by other antenna. The Antenna gain of EUT is 1.57dBi. Therefore, the equipment complies with the antenna requirement of Section 15.203 and RSS GEN 6.8

******* End of Test Report *******