FCC PART 15.249 EMI MEASUREMENT AND TEST REPORT

For

Shenzhen Highstar Electrical Co., Ltd

Building 6, Highstar Industrial zone, Gangtou, Bantian Street, Longgang District, Shenzhen, China

FCC ID: 2AAZR8019A

September 11, 2014

This Report Concerns:
Original Report

Test Engineer:

Lisa Chen

Report No.:

BSL14060143E

Receive EUT

August 26, 2014 /

Date/Test Date: August 26-September 11, 2014

Reviewed By: Sky Zhang

BSL Testing Co.,LTD.

NO. 24, ZH Park, Nantou, Shenzhen, 518000 China

Prepared By: Tel: 86- 755-26508703

Fax: 86- 755-26508703

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1. GENERAL INFORMATION

1.1. Report information

- 1.1.1. This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that BSL approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that BSL in any way guarantees the later performance of the product/equipment.
- 1.1.2. The sample/s mentioned in this report is/are supplied by Applicant, BSL therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.
- 1.1.3.Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through BSL, unless the applicant has authorized BSL in writing to do so.

Test Facility -

The test site used to collect the radiated data is located on the address of

BSL Testing Co.,LTD.

(FCC Registered Test Site Number: 191509) on

NO. 24, ZH Park, Nantou, Shenzhen, 518000 China

The Test Site is constructed and calibrated to meet the FCC requirements.

1.2. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	+/-1.25dB
2	RF Power, Conducted	+/-0.20dB
3	Spurious emissions, conducted	+/-0.33dB
4	All emissions, radiated (<1G)	+/-3.47dB
5	All emissions, radiated (>1G)	+/-3.82dB
6	Temperature	+/-0.5°CdB
7	Humidity	+/-2%

2. PRODUCT DESCRIPTION

2.1. EUT Description

Description : "iBUD"BLUETOOTH SPEAKER
Applicant : Shenzhen Highstar Electrical Co., Ltd

Building 6, Highstar Industrial zone, Gangtou, Bantian

Street, Longgang District, Shenzhen, China

Manufacturer : Shenzhen Highstar Electrical Co., Ltd

Building 6, Highstar Industrial zone, Gangtou, Bantian

Street, Longgang District, Shenzhen, China

Model Number : HSD8019A

Modulation type : GFSK Antenna gain : 0dBi BT version : 2.1

Antenna type : PCB Antenna Frequency : 2402-2480MHz Number of Channels : 79 Channels

Power Supply : DC 3.7V Battery and charging DC 5V USB

Channel List								
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)			
00	2402	27	2429	54	2456			
01	2403	28	2430	55	2457			
02	2404	29	2431	56	2458			
03	2405	30	2432	57	2459			
04	2406	31	2433	58	2460			
05	2407	32	2434	59	2461			
06	2408	33	2435	60	2462			
07	2409	34	2436	61	2463			
08	2410	35	2437	62	2464			
09	2411	36	2438	63	2465			
10	2412	37	2439	64	2466			
11	2413	38	2440	65	2467			
12	2414	39	2441	66	2468			
13	2415	40	2442	67	2469			
14	2416	41	2443	68	2470			
15	2417	42	2444	69	2471			
16	2418	43	2445	70	2472			
17	2419	44	2446	71	2473			
18	2420	45	2447	72	2474			
19	2421	46	2448	73	2475			
20	2422	47	2449	74	2476			
21	2423	48	2450	75	2477			
22	2424	49	2451	76	2478			
23	2425	50	2452	77	2479			
24	2426	51	2453	78	2480			
25	2427	52	2454					
26	2428	53	2455					

2.2. Block Diagram of EUT Configuration

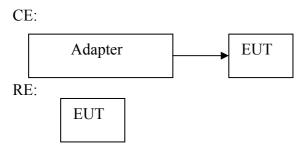


Figure 1 EUT Setup

2.3. Support Equipment List

Name	Model No	S/N	Manufacturer	Used (Y/N)
Adapter	GDJ-050-200	-	Highstar	Y

2.4. Test Conditions

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-25
Humidity (%RH)	25-75	50-63
Barometric pressure	860-1060	950-1000
(mbar)		

3. TEST RESULTS SUMMARY

FCC 15 Subpart C, Paragraph 15.249:2013

FCC Rules	Description of Test	Result
Section 15.207	Conducted Emission	Compliant
Section 15.249(a)	The fundamental field strength and the harmonics	Compliant
Section 15.209 Section 15.249(d)	Radiated Emission	Compliant
Section 15.249(d)	Band Edge	Compliant
Section 15.203	Antenna Requirement	Compliant
Section 15.249	20dB Bandwidth	Compliant

Remark: "N/A" means "Not applicable".

Statement: All testing was performed using the test procedures found in ANSI C63.4-2003.

Modifications

No modification was made.

4. TEST EQUIPMENT USED

EQUIPMENT/FACIL ITIES	MANUFACTURE R	MODEL	SERIAL NO.	DATE OF CAL.	CAL. INTERV AL
3m Semi-Anechoic Chamber	Chengyu Electron	9 (L)*6	BSL086	Aug. 23 2014	1 Year
	D.1.1.0.C.1	(W)* 6 (H)	DCI 001	G 20 2012	1 37
EMI Test Receiver	Rohde & Schwarz	ESCI3	BSL001	Sep. 28 2013	1 Year
BiConiLog Antenna	Rohde & Schwarz	HL562	BSL009	Sep. 28 2013	1 Year
Double -ridged waveguide horn	Rohde & Schwarz	9120D	BSL008	Aug. 27 2014	1 Year
Horn Antenna	ETS-LINDGREN	3160	BSL072	Dec. 28 2013	1 Year
Cable	Rohde & Schwarz	BSL045	BSL045	Aug. 27 2014	1 Year
Cable	Rohde & Schwarz	BSL046	BSL046	Aug. 27 2014	1 Year
Cable	Rohde & Schwarz	BSL047	BSL047	Aug. 27 2014	1 Year
Amplifier(100kHz-40G Hz)	R&S	SMR40	BSL007	Sep. 28 2013	1 Year
Band filter	Amindeon	82346	BSL049	Aug. 27 2014	1 Year
Active Loop Antenna	EMTES	EM15	BSL011	Sep. 28 2013	1 Year
Coaxial Switch	YUANFANG	TA218B	BSL004	Aug. 27 2014	1 Year
Spectrum analyzer	Rohde & Schwarz	FSP40	BSL049	Sep. 28 2013	1 Year
Shielding Room	zhongyu Electron	7.0(L)x3.0(W)x3.0(H)	BSL085	Sep. 28 2013	1 Year
EMI Test Receiver	R&S	ESPI	BSL002	Sep. 28 2013	1 Year
10dB Pulse Limita	R&S	BSL003	BSL003	Sep. 28 2013	1 Year
Coaxial Switch	YUANFANG	TA218B	BSL004	Aug. 27 2014	1 Year
LISN	Rohde & Schwarz	ESH3-Y5	BSL005	Sep. 28 2013	1 Year
Coaxial Cable	YUANFANG	BSL048	BSL048	Aug. 27 2014	1 Year
EMI TEST SOFTWARE	AUDIX	E3	N/A	N/A	N/A

5. ANTENNA REQUIREMENT

5.1. Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, 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.

5.2. Antenna Connected Construction

According to § 15.203, 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

The antenna used in this product is PCB Antenna. The antenna is permanently attached. Refer to the product photo.

5.3. Result

Compliance

6. CONDUCTED POWER LINE TEST

6.1. Test Equipment

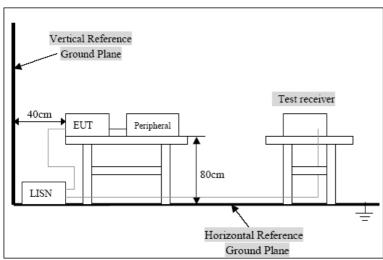
Please refer to section 4 this report.

6.2. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uh coupling inpedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uh coupling inpedance with 50ohm termination.

Both sides of A.C. Line are check for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ASIN C63.4:2003 on conducted measurement. Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

6.3. Test Setup



For the actual test configuration, Please refer to the related items-Photos of testing

6.4. Conducted Power line Emission Limits

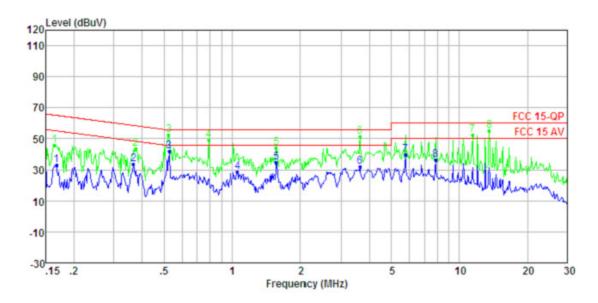
FCC Part 15 Paragraph 15.207 (dBuV)				
Frequency Range (MHZ)	Class A QP/AV	Class B QP/AV		
0.15-0.5	79/66	65-56/56-46		
0.5-5.0	73/60	56-46		
5.0-3.0	73/60	60-50		

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

6.5. Conducted Power Line Test Result

PASS

Link Mode



Condition:

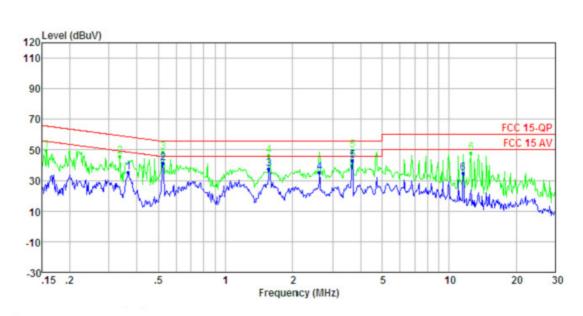
: RBW:9.000KHz VBW:30.000KHz Limit Over

	Freq	Level	Line	Limit	Remark	Pol/Phase
	MHz	dBuV	dBuV	dB		
1	0.17	32.87	55.08	-22.21	Average	LINE
2	0.37	33.80			Average	LINE
3 Max	0.53	41.72	46.00	-4.28	Average	LINE
4	1.05	28.64	46.00	-17.36	Average	LINE
5	1.57	34.49	46.00	-11.51	Average	LINE
4 5 6 7	3.64	31.96	46.00	-14.04	Average	LINE
	5.77	39.81	50.00	-10.19	Average	LINE
8	7.85	36.15	50.00	-13.85	Average	LINE

Condition:

: RBW:9.000KHz VBW:30.000KHz Limit Over

	Freq	Level	Line	Limit	Remark	Pol/Phase
	MHz	dBuV	dBuV	dB		
1 2 3 Max 4 5 6	0. 52 0. 79 1. 57 3. 64 11. 44	52. 72 49. 15 44. 31 51. 58 52. 74	58. 39 56. 00 56. 00 56. 00 56. 00 60. 00	-19. 44 -14. 52 -3. 28 -6. 85 -11. 69 -4. 42 -7. 26	QP QP QP QP QP QP	LINE LINE LINE LINE LINE LINE LINE LINE
8	13.55	55.08	60.00			LINE



Condition: : RBW:9.000KHz VBW:30.000KHz

	Freq	Level	Limit	Limit	Remark	Pol/Phase
	MHz	dBuV	dBuV	dB		
1	0.37	35.14	48.56	-13.42	Average	NEUTRAL
2	0.52	41.51	46.00	-4.49	Average	NEUTRAL
3	1.57	37.34	46.00	-8.66	Average	NEUTRAL
4	2.62	35.56	46.00	-10.44	Average	NEUTRAL
5 Max	3.68	43.06	46.00	-2.94	Average	NEUTRAL
6	11.56	34.58	50.00	-15.42	Average	NEUTRAL

Condition: : RBW:9.000KHz VBW:30.000KHz Limit Over

	Freq	Level	Line	Limit	Remark	Pol/Phase
	MHz	dBuV	dBuV	dB		
1	0.16	49.88	65.60	-15.72	QP	NEUTRAL
2	0.34	45.71		-13.60		NEUTRAL
1 2 3	0.52	48.61	56.00	-7.39	QP	NEUTRAL
4	1.57	46.13	56.00	-9.87	QP	NEUTRAL
5 Max	3.68	49.86	56.00	-6.14	QP	NEUTRAL
6	12.52	48.11	60.00	-11.89	QP	NEUTRAL

7. RADIATED EMISSION TEST

7.1. Test Equipment

Please refer to section 4 this report.

7.2. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter 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.

Calibrated Loop antenna is used as receiving antenna for frequencies below 30MHz, Calibrated Bilog antenna is used as receiving antenna for frequencies between 30 MHz and 1 GHz, Calibrated Horn antenna is used as receiving antenna for frequencies above 1000MHz. 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 C63.4: 2003 on radiated emission measurement.

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

The frequency range from 9kHz to 25GHz is checked.

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

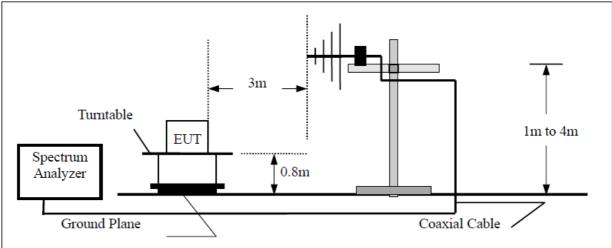
After the preliminary test, we found to emit the worst emissions and therefore had been tested under operating condition. The EUT was tested with 2402MHz, 2441MHz and 2480MHz.

7.3. Radiated Test Setup

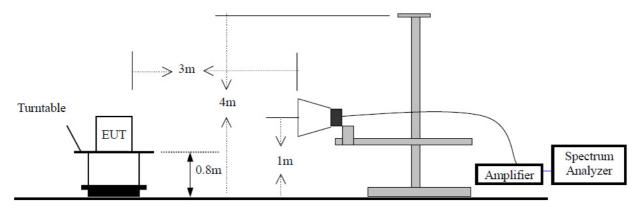
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(C) Radiated Emission Test Set-Up, Frequency above 1000MHz



7.4. Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

A. Fundamental and Harmonics Radiated Emissions 15.249(a) Limit

Fundamental Frequency	Field as treng	th of Fundamental(3	Bm)	Field as trength of Harmonics(3m)			
(MHZ)	mV/m	dBuV/m		uV/m	dBuV/m		
902-928	50	94(AV) 114(Peak)		500	54(AV)	74(Peak)	
2400-2483.5	50	94(AV)	114(Peak)	500	54(AV)	74(Peak)	

Note: (1) RF Voltage (dBuV)=20 log Voltage(uV)

- (2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- (3) The emission limit in this paragraph os based on measurement instrumentation employing an average detector. Measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.

B. Spurious Radiated Emissions.

		Lim	nit	
Frequency (MHz)	Field Strength of Quasi-peak Value (microvolts/m)	Field Strength of Quasi-peak Value (dBµV/m)	Measurement distance (m)	The final measurement in band 9-90kHz,
0.009 - 0.490	2400/F(kHz)	/	300	110-490kHz and above 1000MHz is
0.490 - 1.705	24000/F(kHz)	/	30	performed with Average detector. Except those
1.705-30	30	29.5	30	
30 - 88	100	40	3	frequency bands mention above, the
88 - 216	150	43.5	3	final measurement for frequencies
216 - 960	200	46	3	below 1000MHz is
Above 960	500	54	3	performed with Quasi Peak detector.

Note: (1) RF Voltage (dBuV)=20 log Voltage(uV)

- (2) In the Above Table, the tighter limit applies at the band edges.
- (3) Distagnce refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

7.5. Radiated Emission Test Result

Pass

A. Fundamental Radiated Emissions Data

CH Low

Freq. (MHz)	Read Level (dBuV) AV/PK	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission (dBuV/m) AV/PK	HORIZ/ VERT	Limits (dBuV/m) AV/PK	Margin (dB)
2402	77.23/86.96	27.47	5.42	30.17	79.95/89.68	VERT	94/114	-14.05/-24.32
2402	79.34/88.85	27.47	5.42	30.17	82.06/91.57	HORIZ	94/114	-11.94/-22.43

CH Middle

Freq. (MHz)	Read Level (dBuV) AV/PK	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission (dBuV/m) AV/PK	HORIZ/ VERT	Limits (dBuV/m) AV/PK	Margin (dB)
2441	78.39/87.46	27.40	5.40	30.15	81.04/90.11	VERT	94/114	-12.96/-23.89
2441	79.57/89.07	27.40	5.40	30.15	82.22/91.72	HORIZ	94/114	-11.78/-22.28

CH High

Freq. (MHz)	Read Level (dBuV) AV/PK	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission (dBuV/m) AV/PK	HORIZ/ VERT	Limits (dBuV/m) AV/PK	Margin (dB)
2480	77.09/86.19	27.50	5.46	29.98	80.07/89.17	VERT	94/114	-13.93/-24.83
2480	79.03/88.14	27.50	5.46	29.98	82.01/91.12	HORIZ	94/114	-11.99/-22.88

Remark:

Final Emission = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

-	O 1	D	1	1 1			D .
н	General	Rac	diate.	d Hn	110	CIONC	I lata

For below 9kHz-30MHz Spurious

Freq. (MHz)	Emission(dBuV/m) PK / AV	Limits(dBuV/m) PK / AV	Margin (dB)
-	-	-	-
-	-	-	-

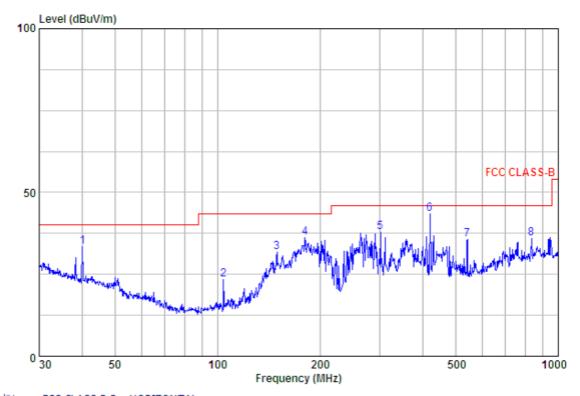
N	ote	

	Emissions attenua	ted more than 20	0 dB be	low the p	permissible	value are not reported	l.
--	-------------------	------------------	---------	-----------	-------------	------------------------	----

For 30M-1000MHz Spurious

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

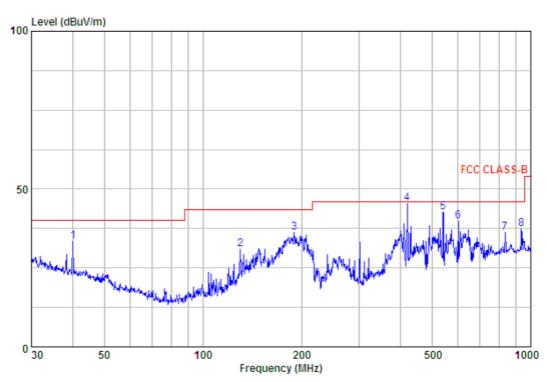
2441MHz Transmitting(Worst case mode)



Condition : FCC CLASS-B 3m HORIZONTAL

: RBW:120.000KHz VBW:300.000KHz SWT:Auto

	Freq	Line	Level	Limit	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB		
1 2 3 4 5 6 max 7	104. 17 149. 49 180. 65 300. 37 420. 58 541. 37	40.00 43.50 43.50 43.50 46.00 46.00 46.00 46.00	23. 53 31. 81 36. 12 37. 93 43. 56 35. 59	-19.97 -11.69 -7.38 -8.07 -2.44 -10.41	QP QP QP QP QP QP	HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL



Condition : FCC CLASS-B 3m VERTICAL : RBW:120.000KHz VBW:300.000KHz SWT:Auto Limit Over Freq Line Level Limit Remark Pol/Ph

	rreq	Line	rever	Limit	nemark	rol/rhase
	MHz	$\overline{dBuV/m}$	$\overline{dBuV/m}$	dB		
1 2 3 4 max 5 6 7	129. 92 189. 74 420. 58 539. 48 601. 43 833. 32	43.50 43.50 46.00 46.00 46.00	33. 36 30. 80 36. 20 45. 47 42. 70 39. 77 36. 32 37. 28	-12.70 -7.30 -0.53 -3.30 -6.23 -9.68	QP QP QP QP QP QP	VERTICAL VERTICAL VERTICAL VERTICAL VERTICAL VERTICAL VERTICAL VERTICAL

For 1000MHz-25000MHz Spurious

CH Low

Freq. (MHz)	Emission(dBuV/m) AV/PK	HORIZ/ VERT	Limits(dBuV/m) AV/PK	Margin (dB)
4804	37.22/47.15		54.0/74.0	-16.78/-26.85
7206	41.18/51.15	VERT	54.0/74.0	-12.82/-22.85
9608	39.17/49.17		54.0/74.0	-14.83/-24.83
4804	36.09/47.76		54.0/74.0	-17.91/-26.24
7206	43.63/53.63	HORIZ	54.0/74.0	-10.37/-20.37
9608	45.12/55.12		54.0/74.0	-8.88/-18.88

CH Middle

Freq. (MHz)	Emission(dBuV/m) AV/PK	HORIZ/ VERT	Limits(dBuV/m) AV/PK	Margin (dB)
4882	32.12/42.2		54.0/74.0	-21.88/-31.8
7323	38.01/47.96	VERT	54.0/74.0	-15.99/-26.04
9764	36.94/46.97		54.0/74.0	-17.06/-27.03
4882	32.2/42.23		54.0/74.0	-21.8/-31.77
7323	40.27/50.27	HORIZ	54.0/74.0	-13.73/-23.73
9764	45.01/55		54.0/74.0	-8.99/-19

CH High

ıgn				
Freq. (MHz)	Emission(dBuV/m) AV/PK	HORIZ/ VERT	Limits(dBuV/m) AV/PK	Margin (dB)
4960	35.22/45.26	VERT	54.0/74.0	-18.78/-28.74
7440	39.09/49.09		54.0/74.0	-14.91/-24.91
9920	40.13/50.22		54.0/74.0	-13.87/-23.78
4960	34.49/44.49	HORIZ	54.0/74.0	-19.51/-29.51
7440	39.18/49.19		54.0/74.0	-14.82/-24.81
9920	41.18/51.27		54.0/74.0	-12.82/-22.73

Note:

- 1. The average measurement was not performed when the peak measured data under the limit of average detection.
- 2. Emissions attenuated more than 20 dB below the permissible value are not reported.

8. BAND EDGE

8.1. Test Equipment

Please refer to Section 4 this report.

8.2. Test Procedure

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 C63.4: 2003 on radiated measurement. The bandwidth setting below 1GHz and above 1GHz on the field strength meter is 120 kHz and 1MHz respectively.

8.3. Band Edge FCC 15.249(d) Limit

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 Section 15.209, whichever is the lesser attenuation.

8.4. Band Edge Test Result

Pass

ALL of the restriction bands were tested, and only the data of worst case was exhibited.

CH Low

Freq. (MHz)	Emission(dBuV/m) AV/PK	HORIZ/ VERT	Limits(dBuV/m) AV/PK	Margin (dB)
2390	38.04/45.83		54.0/74.0	-15.96/-28.17
2400	43.31/52.73	VERT	54.0/74.0	-10.69/-21.27
2390	38.77/47.84		54.0/74.0	-15.23/-26.16
2400	41/53.95	HORIZ	54.0/74.0	-13/-20.05

CH High

· <u>b··</u>				
Freq. (MHz)	Emission(dBuV/m) AV/PK	HORIZ/ VERT	Limits(dBuV/m) AV/PK	Margin (dB)
2483.5	37.77/49.1		54.0/74.0	-16.23/-24.9
2500.00	34.8/44.69	VERT	54.0/74.0	-19.2/-29.31
2483.5	39.13/49.69		54.0/74.0	-14.87/-24.31
2500.00	35.69/43.84	HORIZ	54.0/74.0	-18.31/-30.16

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

9. 20-DB BANDWIDTH

9.1. Test Equipment

Please refer to Section 4 this report.

9.2. Test Procedure

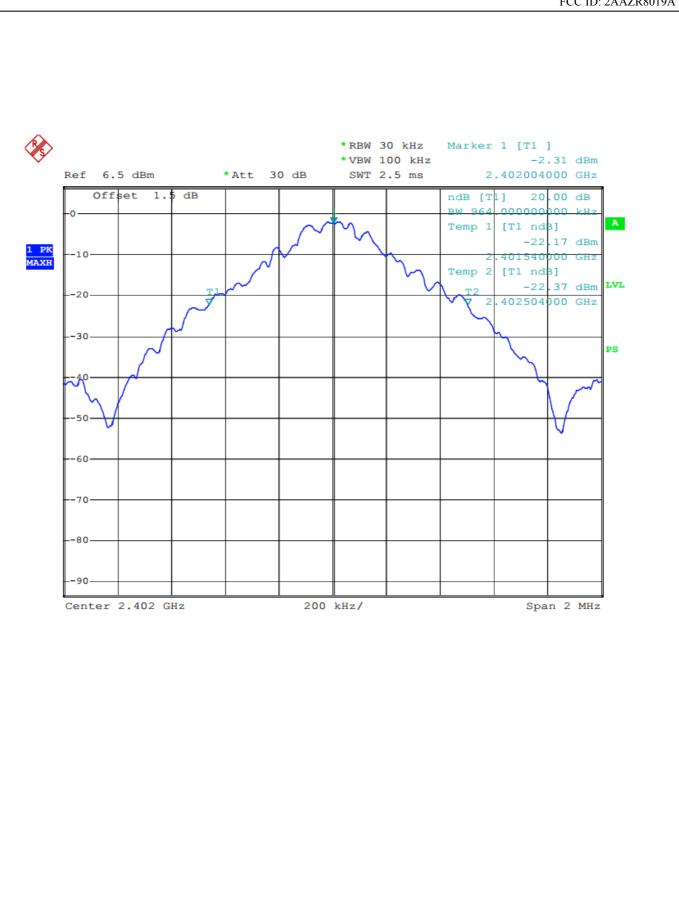
- $1. \ Remove \ the \ antenna \ from \ the \ EUT \ and \ then \ connect \ a \ low \ loss \ RF \ cable \ from \ the \ antenna \ port \ to \ the \ spectrum \ analyzer.$
- 2. Set center frequency of spectrum analyzer = operating frequency.
- 3. The spectrum analyzer as RBW=30 KHz, VBW=100 KHz, Sweep=auto
- 4. Mark the peak frequency and –20dB (upper and lower) frequency.

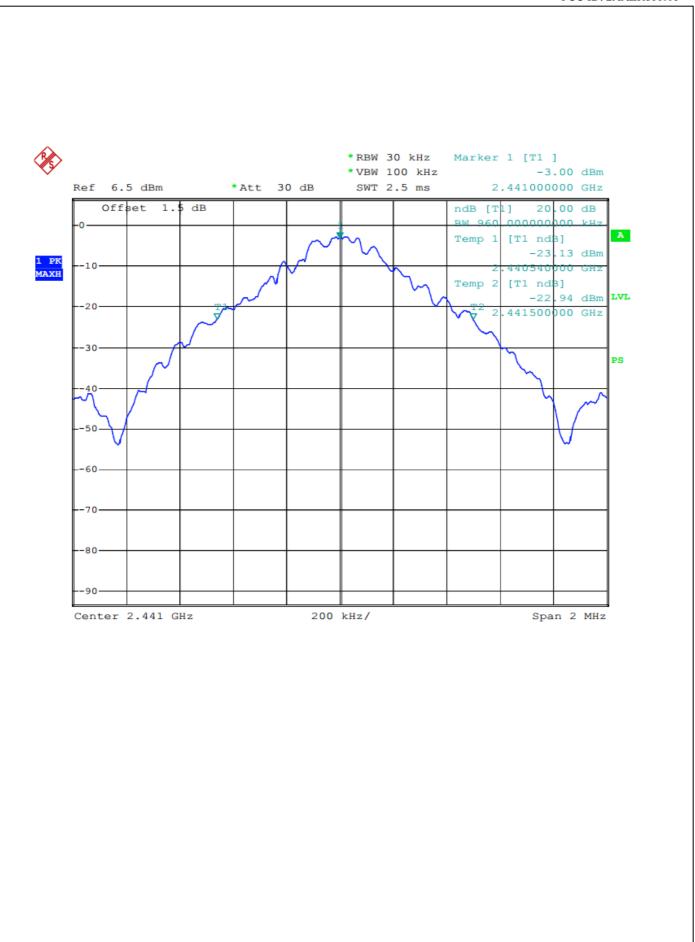
9.3. Limit

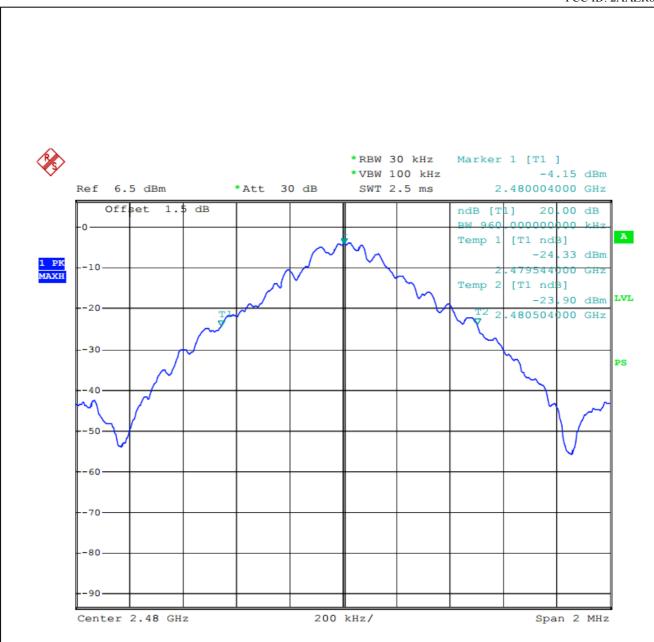
Please refer section 15.249

9.4. Test Result /Plots

Limit	Channel Frequency (MHz)	20dB Bandwidth (MHz)
/	2402	0.964
/	2441	0.960
/	2480	0.960







End Of The Report