FCC RADIO TEST REPORT FCC ID: 2AAI2BCNBLZ-RPSLVR

IC: 11191A-BCNBLZRP

Product: The Blazar Portable Bluetooth Stereo Device

Trade Name: N/A

Model Name: BCN_blz-rp/slvr

Serial Model: BCN_blz-rp/grph, BCN_blz-ltd/awol, BCN_blz-ltd/slyr, BCN_blz-ltd/gcjr, BCN_blz-ltd/cube, BCN_blz-ltd/gilb

Report No.: GTI-2013DG0618113F

Prepared for

Beacon Audio Inc.

623 S State Street #A, Salt Lake City, UT 84111

Prepared by

Shenzhen GTI Testing Technology Co., Ltd.

1/F, Building F, Fenda Science Park, Sanwei Community, Xixiang Street Bao'an District, Shenzhen P.R. China

Address: 623 S State Street #A, Salt Lake City, UT 84111

Applicant's name: Beacon Audio Inc.



Report No.:GTI-2013DG0618113F

TEST RESULT CERTIFICATION

Manufacture's Name:	Fine Acou	ustic Electric Factory			
Address:	No.139, SanJiang Industrial Park, HengLi Town, DongGuang City, GuangDong Province, China				
Product description					
Product name:	.: The Blazar Portable Bluetooth Stereo Device				
Model and/or type reference :	BCN_blz-	-rp/slvr			
Serial Model :	_	-rp/grph, BCN_blz-ltd/awol, BCN_blz-ltd/slyr, -ltd/gcjr, BCN_blz-ltd/cube, BCN_blz-ltd/gilb			
Standards:	FCC Part	15.247, RSS-210 Annex 8			
Test procedure	ANSI C63	3.4-2003, RSS-Gen Issue 3			
		sted by GTI, and the test results show that the equipmer FCC requirements. And it is applicable only to the teste			
·	sed by GT	t in full, without the written approval of GTI, this ΓΙ, personal only, and shall be noted in the revision of th			
Date (s) of performance of tests.		11 Jun. 2013 ~18 Jun. 2013			
Date of Issue		19 Jun. 2013			
Test Result		Pass			
TOOL TOOUR		1 400			
Testing Engine	eer :	Eric Wang (Eric Wang)			
Technical Man	ager :	Jerry You)			
Authorized Sig	natory:	Jack yu)			



Table of Contents

	Page
1 . SUMMARY OF TEST RESULTS	5
1.1 TEST FACILITY	6
1.2 MEASUREMENT UNCERTAINTY	6
2 . GENERAL INFORMATION	7
2.1 GENERAL DESCRIPTION OF EUT	7
2.2 DESCRIPTION OF TEST MODES	9
2.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING	9
2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTE	_
2.5 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)	11
2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS	12
3 . EMC EMISSION TEST	13
3.1 CONDUCTED EMISSION MEASUREMENT	13
3.1.1 POWER LINE CONDUCTED EMISSION LIMITS	13
3.1.2 TEST PROCEDURE	14
3.1.3 DEVIATION FROM TEST STANDARD	14
3.1.4 TEST SETUP	14
3.1.5 EUT OPERATING CONDITIONS	14
3.1.6 TEST RESULTS	15
3.2 RADIATED EMISSION MEASUREMENT	17
3.2.1 RADIATED EMISSION LIMITS	17
3.2.2 TEST PROCEDURE	18
3.2.3 DEVIATION FROM TEST STANDARD 3.2.4 TEST SETUP	18 19
3.2.5 EUT OPERATING CONDITIONS	20
3.2.6 TEST RESULTS (BELOW 30 MHZ)	21
3.2.7 TEST RESULTS (BETWEEN 30M – 1000 MHZ)	22
3.2.8 TEST RESULTS (ABOVE 1000 MHZ)	26
3.2.9 TEST RESULTS (RESTRICTED BANDS REQUIREMENTS)	46
4 . NUMBER OF HOPPING CHANNEL	58
4.1 APPLIED PROCEDURES / LIMIT	58
4.1.1 TEST PROCEDURE	58
4.1.2 DEVIATION FROM STANDARD	58
4.1.3 TEST SETUP 4.1.4 EUT OPERATION CONDITIONS	58 50
4.1.4 EUT OPERATION CONDITIONS 4.1.5 TEST RESULTS	58 59
5 . AVERAGE TIME OF OCCUPANCY	61



Table of Contents

	Page
5.1 APPLIED PROCEDURES / LIMIT 5.1.1 TEST PROCEDURE 5.1.2 DEVIATION FROM STANDARD 5.1.3 TEST SETUP 5.1.4 EUT OPERATION CONDITIONS 5.1.5 TEST RESULTS	61 61 62 62 63
6 . HOPPING CHANNEL SEPARATION MEASUREMENT	65
6.1 APPLIED PROCEDURES / LIMIT 6.1.1 TEST PROCEDURE 6.1.2 DEVIATION FROM STANDARD 6.1.3 TEST SETUP 6.1.4 EUT OPERATION CONDITIONS 6.1.5 TEST RESULTS	65 65 65 65 65
7 . BANDWIDTH TEST	72
7.1 APPLIED PROCEDURES / LIMIT 7.1.1 TEST PROCEDURE 7.1.2 DEVIATION FROM STANDARD 7.1.3 TEST SETUP 7.1.4 EUT OPERATION CONDITIONS 7.1.5 TEST RESULTS	72 72 72 72 72 73
8 . PEAK OUTPUT POWER TEST	79
8.1 APPLIED PROCEDURES / LIMIT 8.1.1 TEST PROCEDURE 8.1.2 DEVIATION FROM STANDARD 8.1.3 TEST SETUP 8.1.4 EUT OPERATION CONDITIONS 8.1.5 TEST RESULTS	79 79 79 79 79 80
9 . ANTENNA REQUIREMENT	86
9.1 STANDARD REQUIREMENT	86
9.2 EUT ANTENNA	86
10 . EUT TEST PHOTO APPENDIX-PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS	87

Page 5 of 88



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C RSS-210 Annex 8				
Standard Section	Judgment	Remark		
15.207&7.2.4	Conducted Emission	PASS		
15.247(a)(1)&A8.2	Hopping Channel Separation	PASS		
15.247(b)(1) & A8.4	7(b)(1) & A8.4 Peak Output Power			
15.247(c) &A8.5	15.247(c) &A8.5 Radiated Spurious Emission			
15.247(a)(iii) &A8.1 Number of Hopping Frequency		PASS		
15.247(a)(iii) &A8.1 Dwell Time		PASS		
15.247(a)(1) &A8.1	Bandwidth	PASS		
15.205&A8.5	Band Edge Emission			
15.203	Antenna Requirement	PASS		

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report



Report No.:GTI-2013DG0618113F

1.1 TEST FACILITY

NTEK Testing Technology Co., Ltd

Add.: 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

FCC Registration No.:238937; IC Registration No.:9270A-1

CNAS Registration No.:L5516

1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%

Report No.:GTI-2013DG0618113F



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	The Blazar Portable Bluetooth Stereo Device			
Model Name	BCN_blz-rp/slvr			
Serial Model	BCN_blz-rp/grph, BCN_blz-ltd/awol, BCN_blz-ltd/slyr, BCN_blz-ltd/gcjr, BCN_blz-ltd/cube, BCN_blz-ltd/gilb			
Madal Difference	All the model are the sa	me circuit and RF module,except		
Model Difference	the model names.			
	The EUT is a The Blaza Device	r Portable Bluetooth Stereo		
	Operation Frequency:	2402~2480 MHz		
	Modulation Type:	BT(1Mbps): GFSK		
		BT EDR(2Mbps):∏/4-DQPSK		
		BT EDR(3Mbps): 8-DPSK		
	Bit Rate of Transmitter	1Mbps/2Mbps/3Mbps		
	Number Of Channel	79 CH		
Product Description	Antenna Designation:	Please see Note 3.		
	Output	BT(1Mbps): 1.404dBm		
	Power(Conducted):	BT EDR(2Mbps): 1.265dBm		
		BT EDR(3Mbps): 0.978dBm		
	Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.			
Channel List	Please refer to the Note 2.			
Adapter	N/A			
Battery	N/A			

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



2.

		01	-1 1!-4				
	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				

Report No.:GTI-2013DG0618113F

3. Table for Filed Antenna

10	able for Filed Affernia						
F	\nt	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
	1	N/A	N/A	PCB Antenna	N/A	0	BT Antenna



2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT

operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	CH00
Mode 2	CH39
Mode 3	CH78
Mode 4	Charging

Page 9 of 88

For Conducted Emission				
Final Test Mode Description				
Mode 4 Charging				

For Radiated Emission			
Final Test Mode	Description		
Mode 1	CH00		
Mode 2	CH39		
Mode 3	CH78		
Mode 4	Charging		

Note:

2.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of FHSS

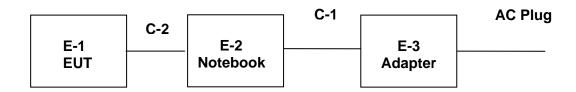
Test software Version	Test program: N/A			
Frequency	2402 MHz	2441 MHz	2480 MHz	
Parameters(1Mbps)	DEF	DEF	DEF	
Parameters(2Mbps)	DEF	DEF	DEF	
Parameters(3Mbps)	DEF	DEF	DEF	

⁽¹⁾ The measurements are performed at the highest, middle, lowest available channels.



2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

CE



RE

E-1 EUT



2.5 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	EUT	N/A	BCN_blz-rp/slvr	N/A	EUT
E-2	Notebook	Dell	D2234	22544	
E-3	Adapter	Dell	D195000200	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	100cm	
C-2	NO	NO	120cm	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>FLength</code> column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n period
1	Spectrum Analyzer	Agilent	E4407B	MY4510804 0	2012.07.06	2013.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2013.06.06	2014.06.05	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2012.07.06	2013.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2013.06.06	2014.06.05	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2013.06.06	2014.06.05	1 year
6	Horn Antenna	EM	EM-AH-101 80	2011071402	2012.07.06	2013.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2012.07.06	2013.07.05	1 year
8	Amplifier	EM	EM-30180	060538	2012.12.22	2013.12.21	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2013.06.07	2014.06.06	1 year
10	Power Meter	R&S	NRVS	100696	2012.07.06	2013.07.05	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619. 05	2012.07.06	2013.07.05	1 year

Conduction Test equipment

Item		Manufactu	Type No.	Serial No.	Last	Calibrated	Calibration
	Equipment	rer			calibration	until	period
1	Test Receiver	R&S	ESCI	101160	2013.06.05	2014.06.04	1 year
2	LISN	R&S	ENV216	101313	2012.08.24	2013.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2012.08.24	2013.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2013.06.06	2014.06.05	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2013.06.06	2014.06.05	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2013.06.06	2014.06.05	1 year



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard	
TREQUENCT (MITZ)	Quasi-peak	Average	Quasi-peak	Average	Standard	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR	
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR	
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR	

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting		
Attenuation	10 dB		
Start Frequency	0.15 MHz		
Stop Frequency	30 MHz		
IF Bandwidth	9 kHz		



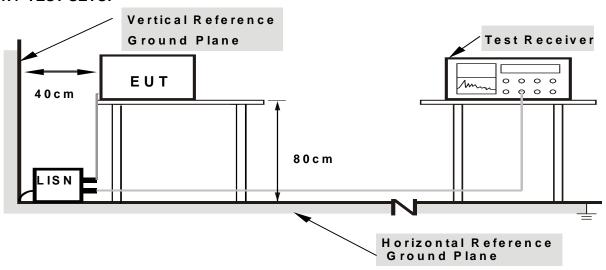
3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



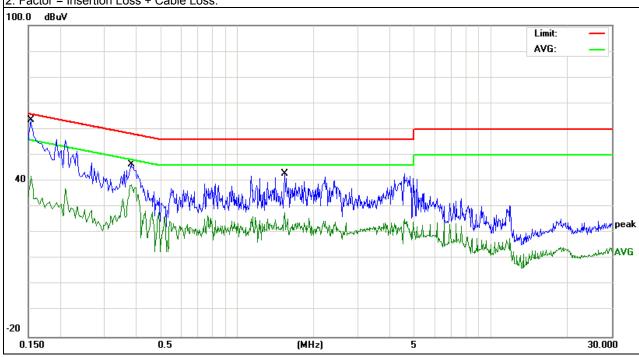
3.1.6 TEST RESULTS

EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature:	26 ℃	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	5V from PC AC 120V/60Hz	Test Mode:	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Dotoctor Typo
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Detector Type
0.1539	53.81	9.82	63.63	65.78	-2.15	QP
0.1539	42.38	9.82	52.20	55.78	-3.58	AVG
0.3820	36.56	10.03	46.59	58.23	-11.64	QP
0.3820	28.62	10.03	38.65	48.23	-9.58	AVG
1.5420	32.67	10.20	42.87	56.00	-13.13	QP
1.5420	17.71	10.20	27.91	46.00	-18.09	AVG

Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.



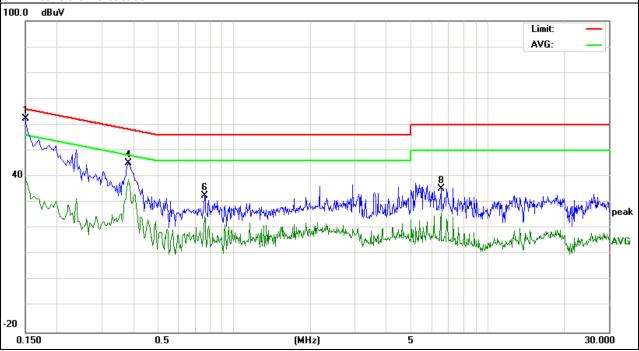




EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	5V from PC AC 120V/60Hz	Test Mode:	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Detector Type
0.1499	41.98	9.82	51.80	66.00	-14.20	QP
0.1499	29.66	9.82	39.48	56.00	-16.52	AVG
0.3820	35.07	10.20	45.27	58.23	-12.96	QP
0.3820	28.69	10.20	38.89	48.23	-9.34	AVG
0.7660	22.52	10.23	32.75	56.00	-23.25	QP
0.7660	14.19	10.23	24.42	46.00	-21.58	AVG
6.5300	24.96	10.34	35.30	60.00	-24.70	QP
6.5300	15.83	10.34	26.17	50.00	-23.83	AVG

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.
 *' means the worst case





3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	(dBuV/m) (at 3M)		
FREQUENCY (IVITIZ)	PEAK	AVERAGE	
Above 1000	74	54	

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

FREQUENCY RANGE OF RADIATED MEASUREMENT (For intentional radiators)

- (1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
- (2) If the intentional radiator operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.
- (3) If the intentional radiator operates at or above 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 200 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.



Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted	1 MHz / 1 MHz for Dook, 1 MHz / 10Hz for Average
band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

3.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

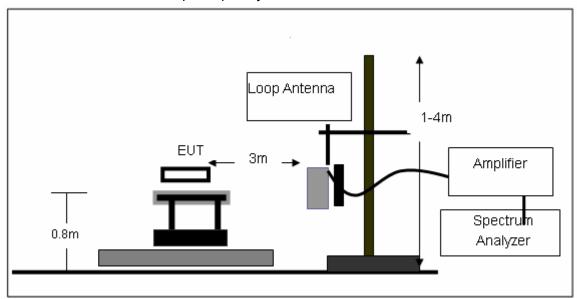
3.2.3 DEVIATION FROM TEST STANDARD

No deviation

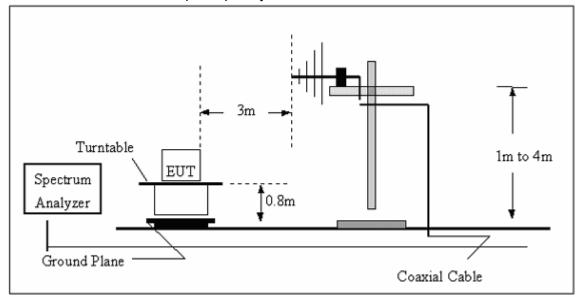


3.2.4 TEST SETUP

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

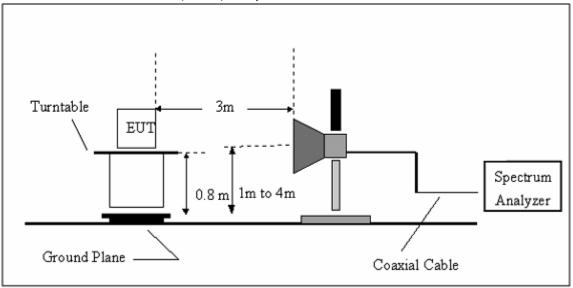


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





(C) Radiated Emission Test-Up Frequency Above 1GHz



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



3.2.6 TEST RESULTS (BELOW 30 MHZ)

EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Polarization :	
Test Voltage :	3.7V		
Test Mode :	Mode 1		

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				PASS
				PASS

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.

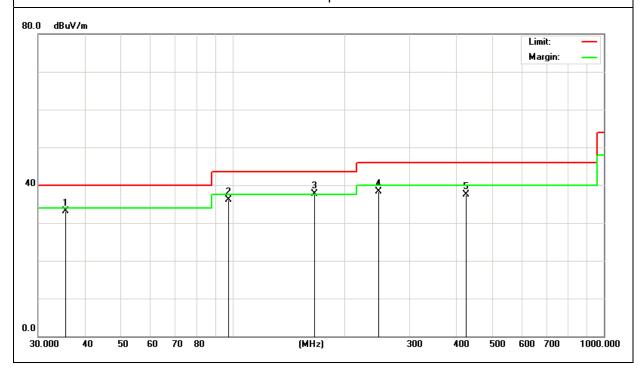


3.2.7 TEST RESULTS (BETWEEN 30M - 1000 MHZ)

EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Polarization :	Horizontal
Test Voltage :	3.7V		
Test Mode :	Mode 1		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
35.47	17.68	15.45	33.13	40	-6.87	QP
97.51	25.8	10.22	36.02	43.5	-7.48	QP
166.5399	27.4	10.32	37.72	43.5	-5.78	QP
247.05	25.66	12.61	38.27	46	-7.73	QP
423.57	19.6	17.85	37.45	46	-8.55	QP

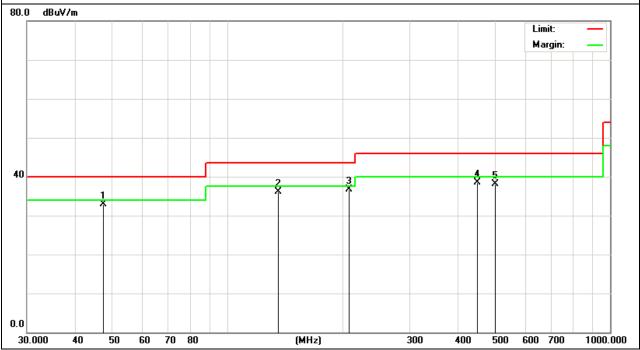
Remark:





EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Polarization :	Vertical
Test Voltage :	3.7V		
Test Mode :	Mode 1		

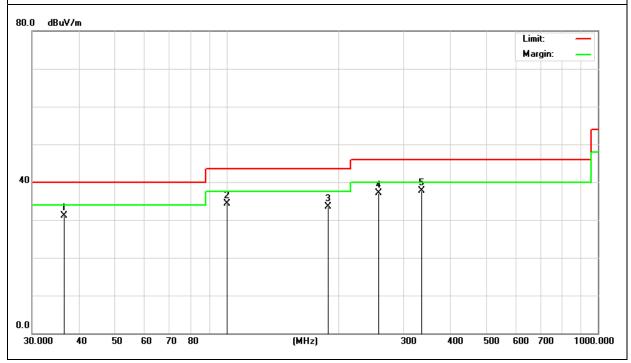
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
47.35	23.46	9.43	32.89	40	-7.11	QP
135.74	24.17	11.98	36.15	43.5	-7.35	QP
207.38	27.68	9.09	36.77	43.5	-6.73	QP
449.57	20.33	18.26	38.59	46	-7.41	QP
500.27	18.64	19.43	38.07	46	-7.93	QP





EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Polarization :	Horizontal
Test Voltage :	3.7V		
Test Mode :	RX		

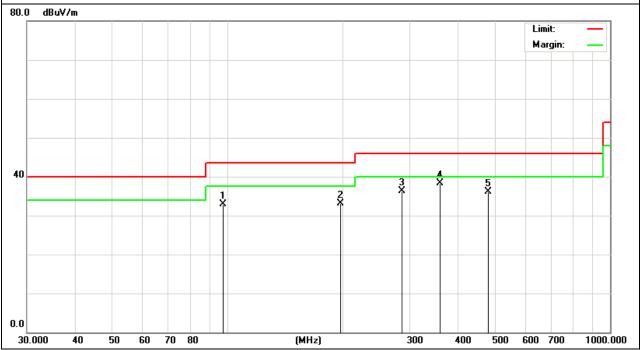
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
36.57	16.24	14.94	31.18	40	-8.82	QP
100.23	23.57	10.67	34.24	43.5	-9.26	QP
187.26	24.37	9.08	33.45	43.5	-10.05	QP
257.38	23.11	14.02	37.13	46	-8.87	QP





EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Polarization :	Vertical
Test Voltage :	3.7V		
Test Mode :	RX		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
97.35	22.7	10.19	32.89	43.5	-10.61	QP
197.27	24.33	8.69	33.02	43.5	-10.48	QP
285.24	22.78	13.62	36.4	46	-9.6	QP
359.35	22.67	15.54	38.21	46	-7.79	QP





3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	3.7V
Test Mode :	TX 2402MHz – CH 00(1Mbps)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Datastar Tuna
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
1144.57	31.27	24.78	56.05	74	-17.95	peak
1144.57	23.07	24.78	47.85	54	-6.15	AVG
4804.032	26.57	35.6	62.17	74	-11.83	peak
4804.032	15.25	35.6	50.85	54	-3.15	AVG
7207.178	21.48	36.26	57.74	74	-16.26	peak
7207.178	9.35	36.26	45.61	54	-8.39	AVG
9608.229	17.38	37.94	55.32	74	-18.68	peak
9608.86	7.18	37.93	45.11	54	-8.89	AVG

Remark:

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

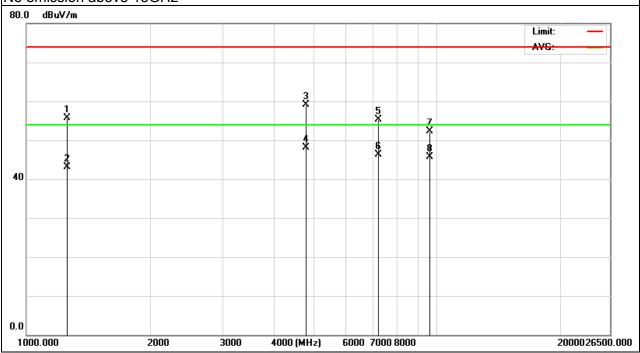




EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	3.7V
Test Mode :	TX 2402MHz – CH 00(1Mbps)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Datastar Tuna
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
1257.28	30.17	25.5	55.67	74	-18.33	peak
1257.28	17.68	25.5	43.18	54	-10.82	AVG
4804.87	23.57	35.6	59.17	74	-14.83	peak
4804.87	12.57	35.6	48.17	54	-5.83	AVG
7206.2	19.05	36.26	55.31	74	-18.69	peak
7206.2	10.1	36.26	46.36	54	-7.64	AVG
9608.37	14.37	37.94	52.31	74	-21.69	peak
9608.37	7.78	37.94	45.72	54	-8.28	AVG

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

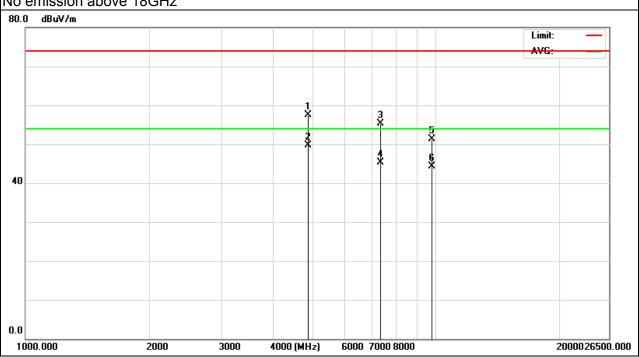




EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	3.7V
Test Mode :	TX 2441MHz – CH 39(1Mbps)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4882.23	22.07	35.46	57.53	74	-16.47	peak
4882.23	14.31	35.46	49.77	54	-4.23	AVG
7322.67	18.74	36.51	55.25	74	-18.75	peak
7322.67	8.86	36.51	45.37	54	-8.63	AVG
9764.61	14.27	37.01	51.28	74	-22.72	peak
9764.61	7.33	37.01	44.34	54	-9.66	AVG

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

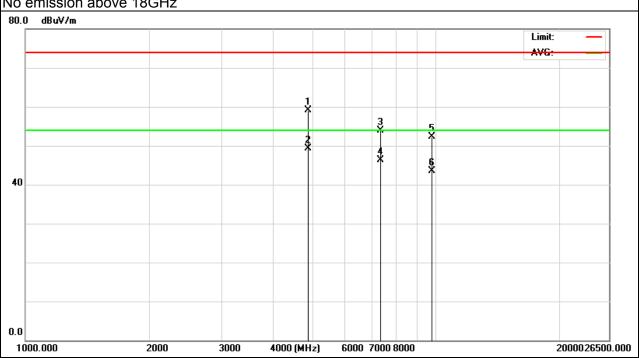




EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	3.7V
Test Mode :	TX 2441MHz – CH 39(1Mbps)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4882.14	23.57	35.46	59.03	74	-14.97	peak
4882.14	13.75	35.46	49.21	54	-4.79	AVG
7323.32	17.42	36.51	53.93	74	-20.07	peak
7323.32	9.74	36.51	46.25	54	-7.75	AVG
9764.88	15.33	37.02	52.35	74	-21.65	peak
9764.88	6.58	37.02	43.6	54	-10.4	AVG

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

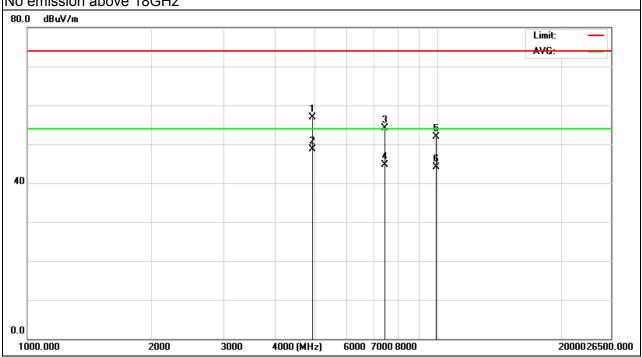




EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	3.7V
Test Mode :	TX 2480MHz – CH 78(1Mbps)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4954.35	21.47	35.49	56.96	74	-17.04	peak
4954.35	13.22	35.49	48.71	54	-5.29	AVG
7431.61	17.46	36.66	54.12	74	-19.88	peak
7431.61	8.05	36.66	44.71	54	-9.29	AVG
9908.79	14.28	37.53	51.81	74	-22.19	peak
9908.79	6.57	37.53	44.1	54	-9.9	AVG

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

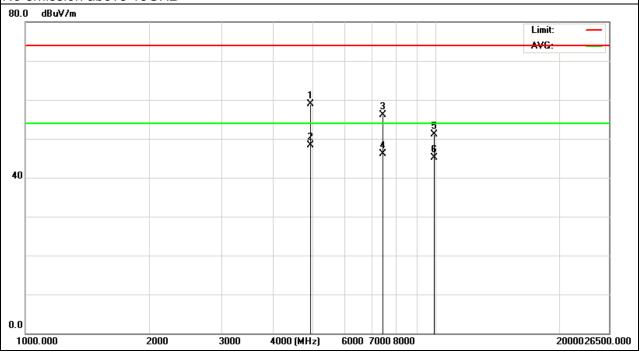




EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	3.7V
Test Mode :	TX 2480MHz – CH 78(1Mbps)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Data eter Tura
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4956.54	23.47	35.47	58.94	74	-15.06	peak
4956.54	12.82	35.47	48.29	54	-5.71	AVG
7434.3	19.35	36.69	56.04	74	-17.96	peak
7434.3	9.42	36.69	46.11	54	-7.89	AVG
9920.22	13.27	37.74	51.01	74	-22.99	peak
9920.22	7.28	37.74	45.02	54	-8.98	AVG

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

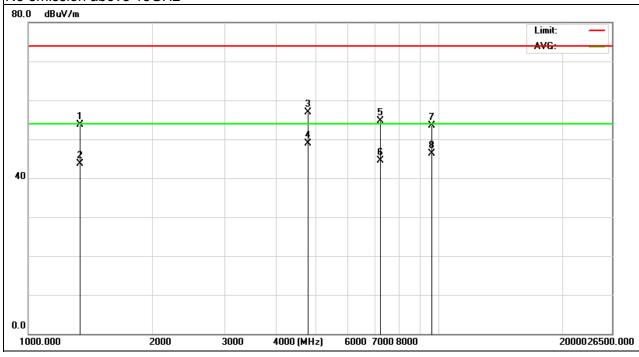




EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	3.7V
Test Mode :	TX 2402MHz – CH 00(2Mbps)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
1335.25	28.34	25.43	53.77	74	-20.23	peak
1335.25	18.22	25.43	43.65	54	-10.35	AVG
4804.17	21.34	35.6	56.94	74	-17.06	peak
4804.17	13.25	35.6	48.85	54	-5.15	AVG
7206.62	18.39	36.26	54.65	74	-19.35	peak
7206.62	8.33	36.26	44.59	54	-9.41	AVG
9608.34	15.64	37.94	53.58	74	-20.42	peak
9608.34	8.34	37.94	46.28	54	-7.72	AVG

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

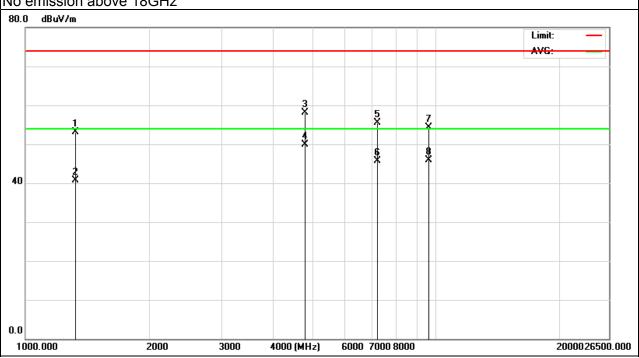




EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	3.7V
Test Mode :	TX 2402MHz – CH 00(2Mbps)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
1324.25	27.68	25.36	53.04	74	-20.96	peak
1324.25	15.33	25.36	40.69	54	-13.31	AVG
4804.15	22.54	35.6	58.14	74	-15.86	peak
4804.15	14.35	35.6	49.95	54	-4.05	AVG
7206.65	19.33	36.26	55.59	74	-18.41	peak
7206.65	9.35	36.26	45.61	54	-8.39	AVG
9608.31	16.33	37.94	54.27	74	-19.73	peak
9608.31	8.05	37.94	45.99	54	-8.01	AVG

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





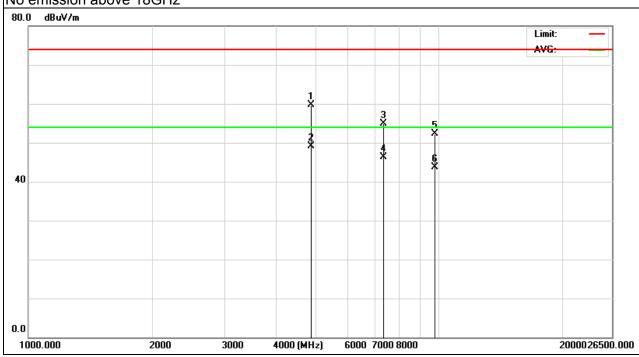
EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	3.7V
Test Mode :	TX 2441MHz – CH 39(2Mbps)	Polarization :	Horizontal

Page 34 of 88

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4882.11	24.23	35.46	59.69	74	-14.31	peak
4882.11	13.57	35.46	49.03	54	-4.97	AVG
7322.42	18.33	36.51	54.84	74	-19.16	peak
7322.42	9.74	36.51	46.25	54	-7.75	AVG
9764.35	15.35	37.01	52.36	74	-21.64	peak
9764.35	6.74	37.01	43.75	54	-10.25	AVG

Remark:

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

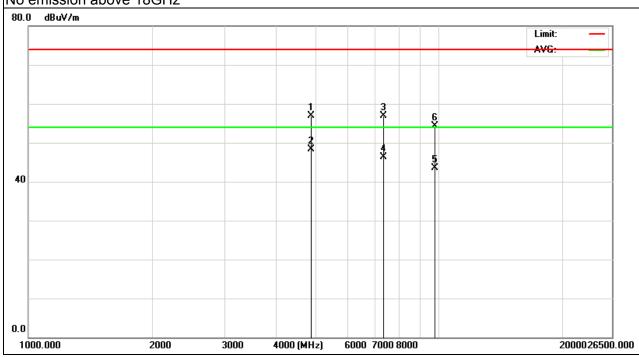




EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	3.7V
Test Mode :	TX 2441MHz – CH 39(2Mbps)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4882.74	21.35	35.46	56.81	74	-17.19	peak
4882.74	12.75	35.46	48.21	54	-5.79	AVG
7323.6	20.33	36.51	56.84	74	-17.16	peak
7323.6	9.75	36.51	46.26	54	-7.74	AVG
9764.3	6.55	37.01	43.56	54	-10.44	AVG
9764.35	17.35	37.01	54.36	74	-19.64	peak

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

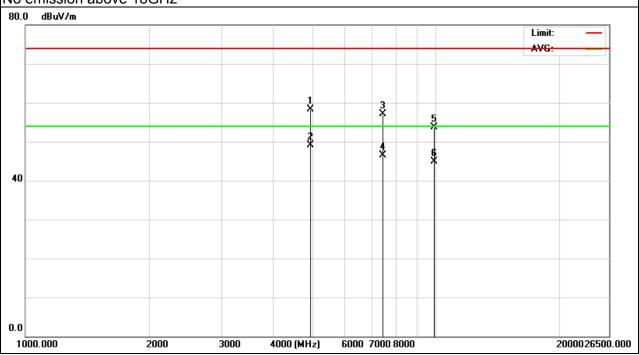




EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	3.7V
Test Mode :	TX 2480MHz – CH 78(2Mbps)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4954.17	22.78	35.49	58.27	74	-15.73	peak
4954.17	13.65	35.49	49.14	54	-4.86	AVG
7431.28	20.5	36.65	57.15	74	-16.85	peak
7431.28	9.86	36.65	46.51	54	-7.49	AVG
9908.5	16.27	37.53	53.8	74	-20.2	peak
9908.5	7.33	37.53	44.86	54	-9.14	AVG

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

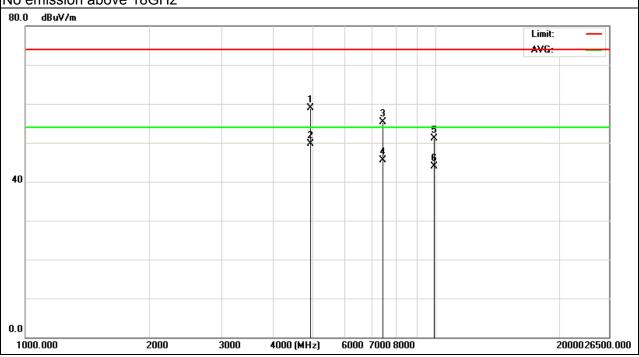


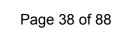


EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	3.7V
Test Mode :	TX 2480MHz – CH 78(2Mbps)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4956.97	23.5	35.47	58.97	74	-15.03	peak
4956.97	14.28	35.47	49.75	54	-4.25	AVG
7434.37	18.68	36.69	55.37	74	-18.63	peak
7434.37	8.82	36.69	45.51	54	-8.49	AVG
9920.82	13.27	37.75	51.02	74	-22.98	peak
9920.82	6.22	37.75	43.97	54	-10.03	AVG

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







EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	3.7V
Test Mode :	TX 2402MHz – CH00 (3Mbps)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
1205.2	22.98	25.41	48.39	74	-25.61	peak
1205.2	13.26	25.41	38.67	54	-15.33	AVG
4804.25	24.37	35.6	59.97	74	-14.03	peak
4804.25	17.35	35.6	52.95	54	-1.05	AVG
7206.26	12.8	36.26	49.06	54	-4.94	AVG
7206.47	22.38	36.26	58.64	74	-15.36	peak
9608.5	17.65	37.94	55.59	74	-18.41	peak
9608.5	7.57	37.94	45.51	54	-8.49	AVG

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





EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	3.7V
Test Mode :	TX 2402MHz - CH00 (3Mbps)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
1335.7	28.69	25.43	54.12	74	-19.88	peak
1335.7	16.57	25.43	42	54	-12	AVG
4804.15	24.78	35.6	60.38	74	-13.62	peak
4804.15	14.36	35.6	49.96	54	-4.04	AVG
7206.38	20.68	36.26	56.94	74	-17.06	peak
7206.38	11.87	36.26	48.13	54	-5.87	AVG
9608.65	16.28	37.94	54.22	74	-19.78	peak
9608.65	7.15	37.94	45.09	54	-8.91	AVG

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

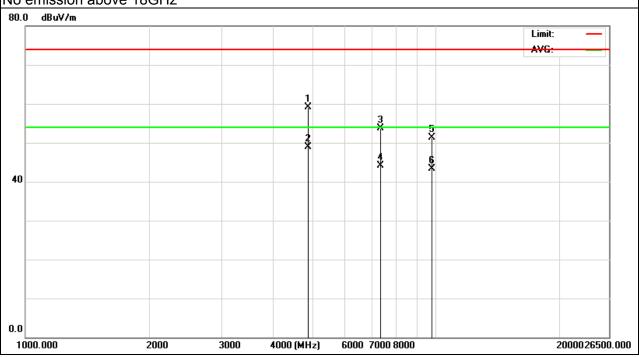




EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	3.7V
Test Mode :	TX 2441MHz – CH39(3Mbps)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4882.74	23.67	35.46	59.13	74	-14.87	peak
4882.74	13.5	35.46	48.96	54	-5.04	AVG
7322.35	17.28	36.51	53.79	74	-20.21	peak
7322.35	7.68	36.51	44.19	54	-9.81	AVG
9764.62	14.38	37.01	51.39	74	-22.61	peak
9764.62	6.21	37.01	43.22	54	-10.78	AVG

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

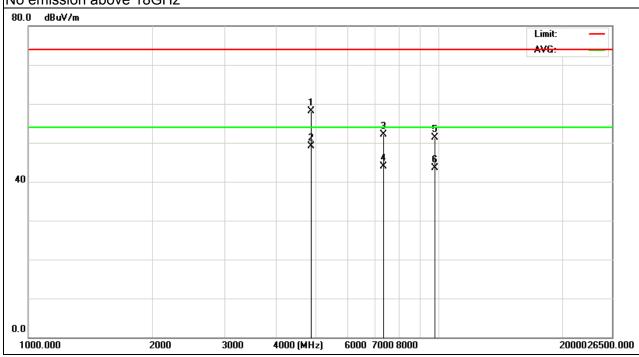




EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	3.7V
Test Mode :	TX 2441MHz – CH39 (3Mbps)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4882.38	22.69	35.46	58.15	74	-15.85	peak
4882.38	13.55	35.46	49.01	54	-4.99	AVG
7323.62	15.68	36.51	52.19	74	-21.81	peak
7323.62	7.32	36.51	43.83	54	-10.17	AVG
9764.67	14.2	37.02	51.22	74	-22.78	peak
9764.67	6.51	37.02	43.53	54	-10.47	AVG

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

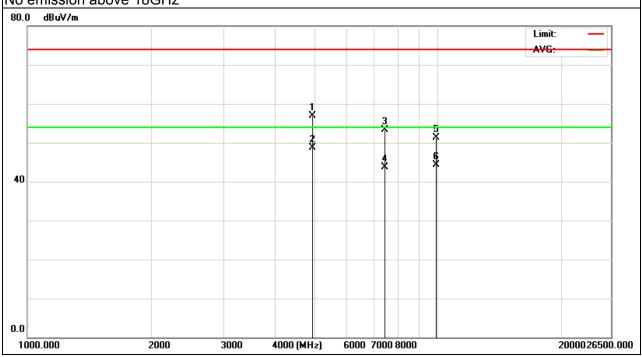




EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	3.7V
Test Mode :	TX 2480MHz – CH78 (3Mbps)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4956.2	21.5	35.48	56.98	74	-17.02	peak
4956.2	13.27	35.48	48.75	54	-5.25	AVG
7434.63	16.54	36.69	53.23	74	-20.77	peak
7434.63	6.98	36.69	43.67	54	-10.33	AVG
9920.04	13.51	37.73	51.24	74	-22.76	peak
9920.4	6.51	37.74	44.25	54	-9.75	AVG

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





EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	3.7V
Test Mode :	TX 2480MHz - CH78 (3Mbps)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4954.97	23.05	35.48	58.53	74	-15.47	peak
4954.97	12.51	35.48	47.99	54	-6.01	AVG
7431.52	17.82	36.66	54.48	74	-19.52	peak
7431.52	8.61	36.66	45.27	54	-8.73	AVG
9908.33	14.33	37.53	51.86	74	-22.14	peak
9908.33	6.5	37.53	44.03	54	-9.97	AVG

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

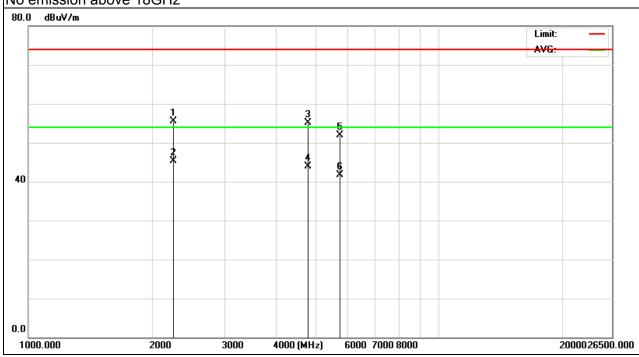




EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	3.7V
Test Mode :	RX	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2257.35	27.88	27.68	55.56	74	-18.44	peak
2257.35	17.62	27.68	45.3	54	-8.7	AVG
4803.22	19.57	35.59	55.16	74	-18.84	peak
4803.22	8.33	35.59	43.92	54	-10.08	AVG
5742.56	17.67	34.28	51.95	74	-22.05	peak
5742.56	7.35	34.28	41.63	54	-12.37	AVG

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

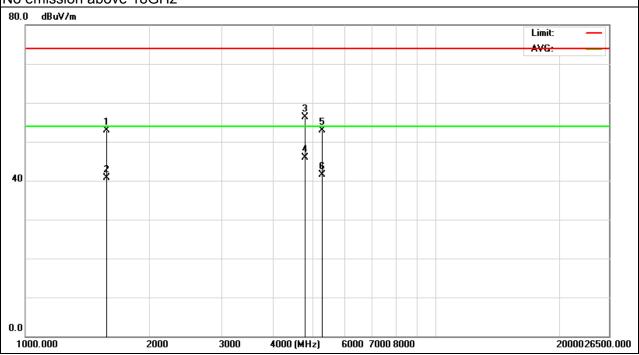




EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	3.7V
Test Mode :	RX	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
1572.54	27.52	25.45	52.97	74	-21.03	peak
1572.54	15.33	25.45	40.78	54	-13.22	AVG
4805.32	20.74	35.6	56.34	74	-17.66	peak
4805.32	10.27	35.6	45.87	54	-8.13	AVG
5272.35	18.67	34.14	52.81	74	-21.19	peak
5272.35	7.33	34.14	41.47	54	-12.53	AVG

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





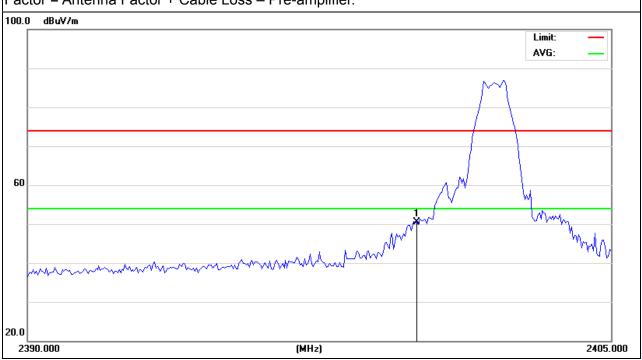
3.2.9 TEST RESULTS (RESTRICTED BANDS REQUIREMENTS)

both hoping and non-hopping mode have be mesuremented. And the worst case only reported.

EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	3.7V
Test Mode :	TX /2402MHz-1Mbps(non-hoppin a)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotoctor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2400	91.03	-40.5	50.53	74	-23.47	peak

Remark:





EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	3.7V
Test Mode :	TX /2402MHz-1Mbps(non-hoppin g)	Polarization :	Horizontal

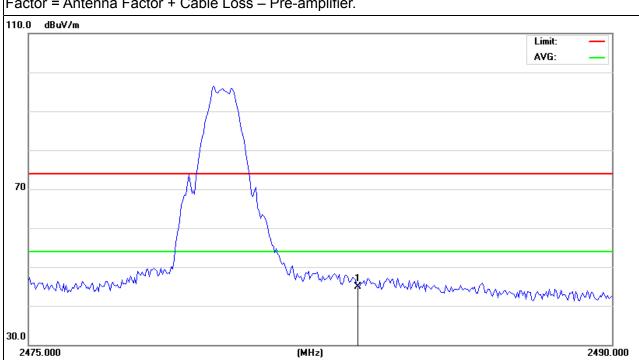
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotoctor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2400	90.9	-40.5	50.4	74	-23.6	peak





EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	3.7V
Test Mode :	TX /2480MHz-1Mbps(non-hoppin g)	Polarization :	Vertical

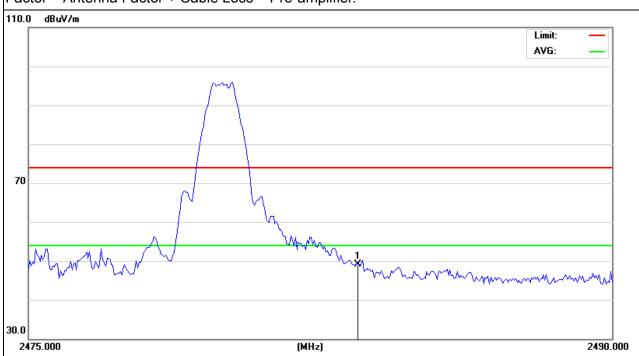
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.5	85.43	-40.43	45	74	-29	peak





EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	3.7V
Test Mode :	TX /2480MHz-1Mbps(non-hoppin g)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotoctor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.5	89.51	-40.43	49.08	74	-24.92	peak





EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	3.7V
Test Mode :	TX /2402MHz-2Mbps(hopping)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotoctor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2400	95.7	-40.5	55.2	74	-18.8	peak
2400	83.96	-40.5	43.46	54	-10.54	AVG





EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	3.7V
Test Mode :	TX /2402MHz-2Mbps(hopping)	Polarization :	Horizontal

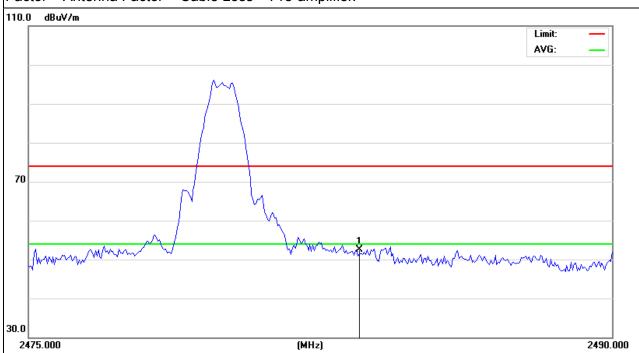
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2400	94.41	-40.5	53.91	74	-20.09	peak
2400	85.31	-40.5	44.81	54	-9.19	AVG





EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	3.7V
Test Mode :	TX /2480MHz-2Mbps(hopping)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotactor Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.5	93.03	-40.43	52.6	74	-21.4	peak



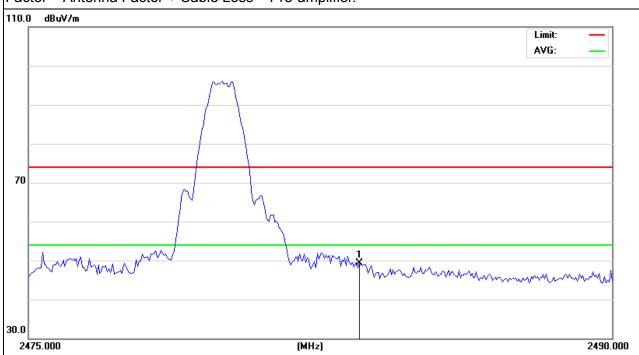


EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	3.7V
Test Mode :	TX /2480MHz-2Mbps(hopping)	Polarization :	Horizontal

Page 53 of 88

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotoctor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.5	89.72	-40.43	49.29	74	-24.71	peak

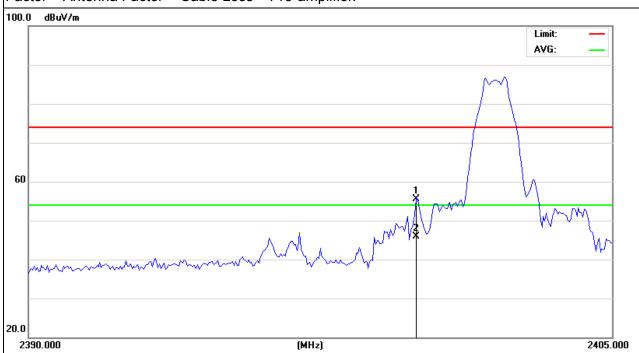
Remark:





EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	3.7V
Test Mode :	TX /2402MHz-3Mbps(hopping)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotoctor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2400	95.91	-40.5	55.41	74	-18.59	peak
2400	86.33	-40.5	45.83	54	-8.17	AVG





EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	3.7V
Test Mode :	TX /2402MHz-3Mbps(hopping)	Polarization :	Horizontal

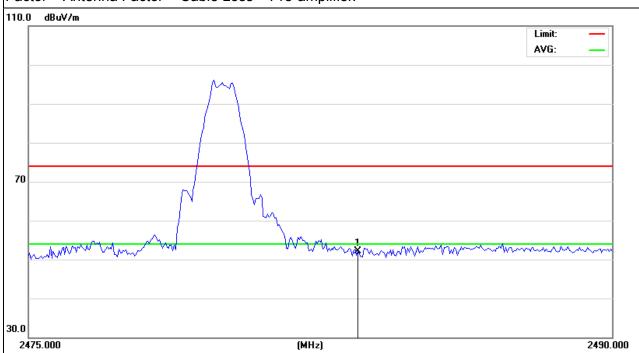
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2400	93.42	-40.5	52.92	74	-21.08	peak
2400	84.62	-40.5	44.12	54	-9.88	AVG





EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	3.7V
Test Mode :	TX /2480MHz-3Mbps(hopping)	Polarization :	Vertical

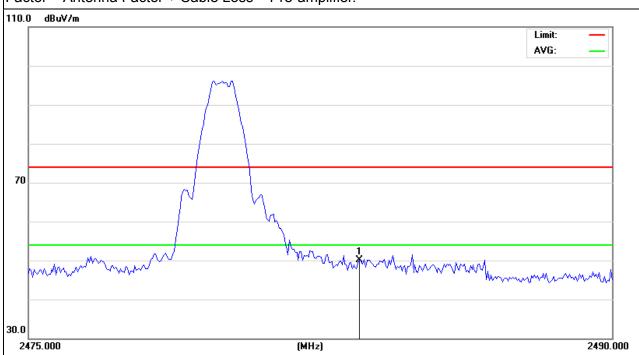
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.5	92.61	-40.43	52.18	74	-21.82	peak





EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	3.7V
Test Mode :	TX /2480MHz-3Mbps(hopping)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.5	90.62	-40.43	50.19	74	-23.81	peak





4. NUMBER OF HOPPING CHANNEL

4.1 APPLIED PROCEDURES / LIMIT

_						
	FCC Part15 (15.247) , Subpart C					
-	Section	Test Item	Limit	Frequency Range (MHz)	Result	
	15.247 (a)(1)(iii)	Number of Hopping Channel	≥15	2400-2483.5	PASS	

Spectrum Parameters	Setting			
Attenuation	Auto			
Span Frequency	= the frequency band of operation			
RB	RBW ≥ 1% of the span			
VB	$VBW \ge RBW$			
Detector	Peak			
Trace	Max Hold			
Sweep Time	Auto			

4.1.1 TEST PROCEDURE

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP



4.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,

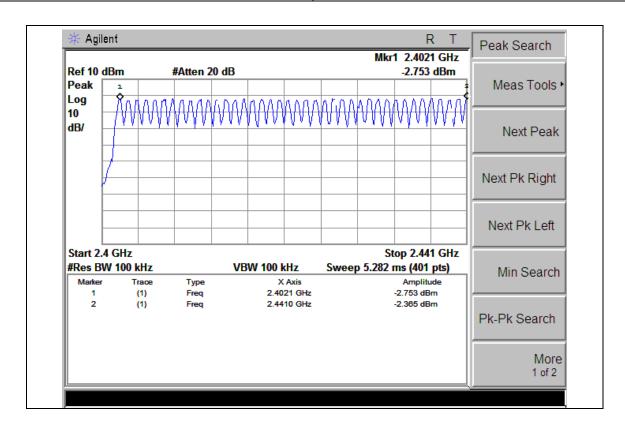
b. Spectrum Setting: RBW= 1MHz, VBW=1MHz, Sweep time = Auto.



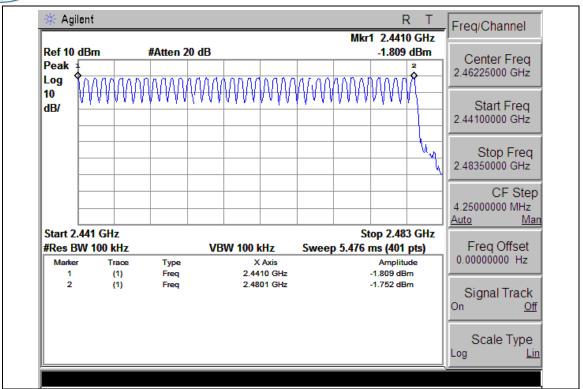
4.1.5 TEST RESULTS

EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature :	25 ℃	Relative Humidity:	60%
Pressure:	1015 hPa	Test Voltage :	3.7V
Test Mode :	Hopping Mode		

Number of Hopping Channel 79	
------------------------------	--









5. AVERAGE TIME OF OCCUPANCY

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C						
Section	Test Item	Limit	Frequency Range (MHz)	Result		
15.247 (a)(1)(iii)	Average Time of Occupancy	0.4sec	2400-2483.5	PASS		

5.1.1 TEST PROCEDURE

- a. The transmitter output (antenna port) was connected to the spectrum analyzer
- b. Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
- c. Use a video trigger with the trigger level set to enable triggering only on full pulses.
- d. Sweep Time is more than once pulse time.
- e. Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- f. Measure the maximum time duration of one single pulse.
- g. Set the EUT for DH5, DH3 and DH1 packet transmitting.
- h. Measure the maximum time duration of one single pulse.
- i. A Period Time = (channel number)*0.4

 - DH1 Time Slot: Reading * (1600/2)*31.6/(channel number)
 DH3 Time Slot: Reading * (1600/4)*31.6/(channel number)
 DH5 Time Slot: Reading * (1600/6)*31.6/(channel number)

5.1.2 DEVIATION FROM STANDARD

No deviation.



5.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

5.1.4 EUT OPERATION CONDITIONS

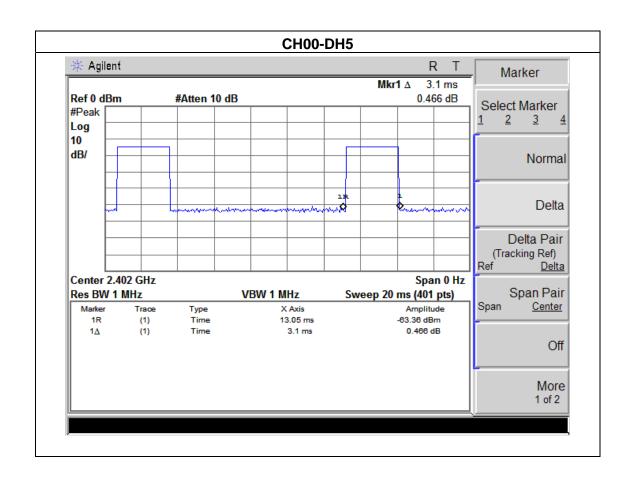
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



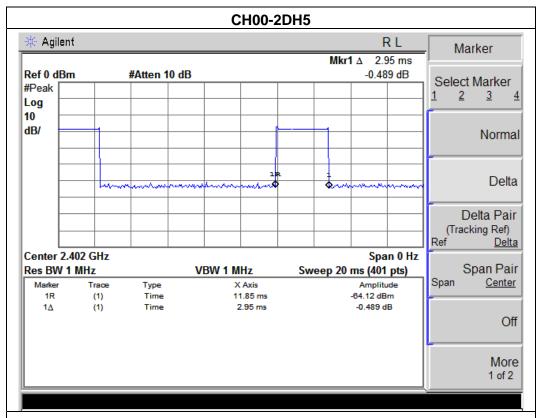
5.1.5 TEST RESULTS

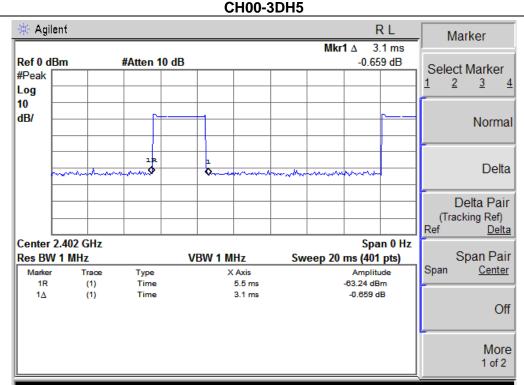
EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	3.7V
Test Mode :	CH00-DH5 (1M/2M/3Mbps Mode)		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2402MHz	3. 10	0.33	0.40
2DH5	2402MHz	2. 95	0.31	0.40
3DH5	2402MHz	3. 10	0.33	0.40









NOTE: The dwell time is showed the maximum data of all data(DH1,2DH1,3DH1, DH3,2DH3,3DH3, DH5,2DH5,3DH5), (DH5,2DH5,3DH5) of mode have the maximu



6. HOPPING CHANNEL SEPARATION MEASUREMENT

6.1 APPLIED PROCEDURES / LIMIT

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	wide enough to capture the peaks of two adjacent channels
RB	≥ 1% of the span
VB	≥ RBW
Detector	Peak
Trace	Max Hold
Sweep Time Auto	

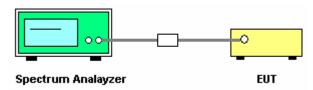
6.1.1 TEST PROCEDURE

- a. The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.
- b. The resolution bandwidth of 100 kHz and the video bandwidth of 100 kHz were utilised for channel separation measurement.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

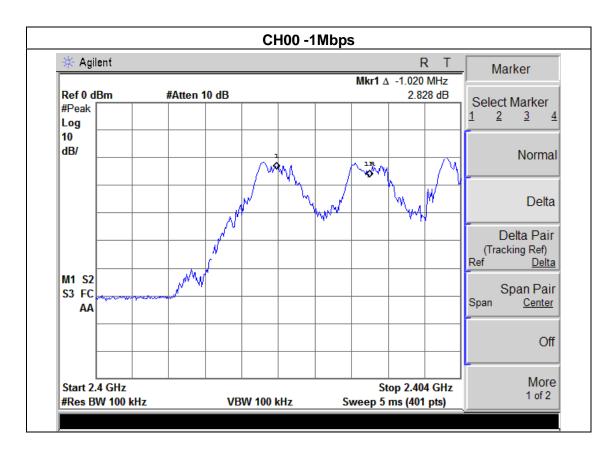


6.1.5 TEST RESULTS

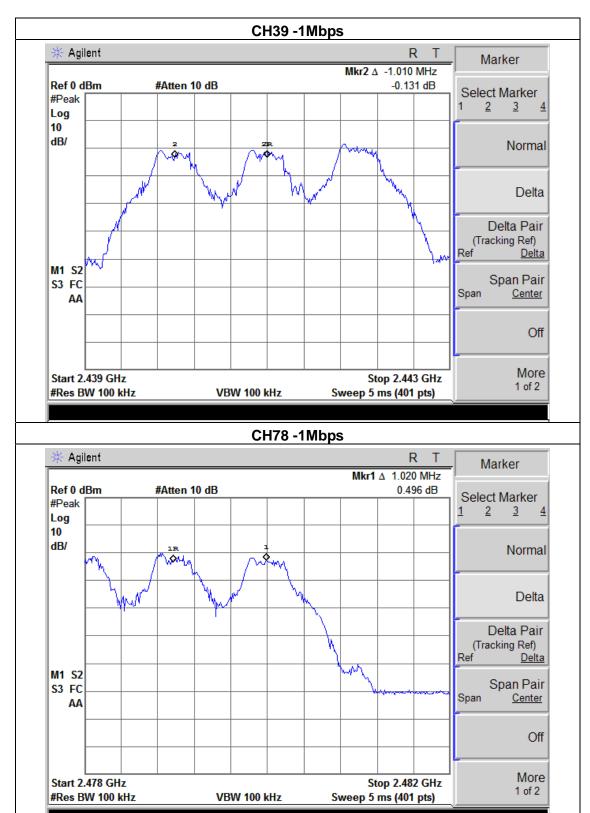
EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature :	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	3.7V
Test Mode :	CH00 / CH39 /CH78 (1Mbps Mode)		

Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.02	Complies
2441 MHz	1.01	Complies
2480 MHz	1.02	Complies

Ch. Separation Limits: >20dB bandwidth





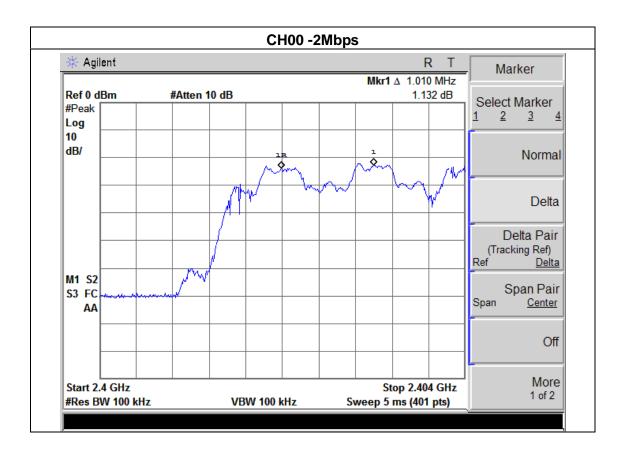




EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	3.7V
Test Mode :	CH00 / CH39 /CH78 (2Mbps Mode)		

Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.01	Complies
2441 MHz	1.05	Complies
2480 MHz	1.01	Complies

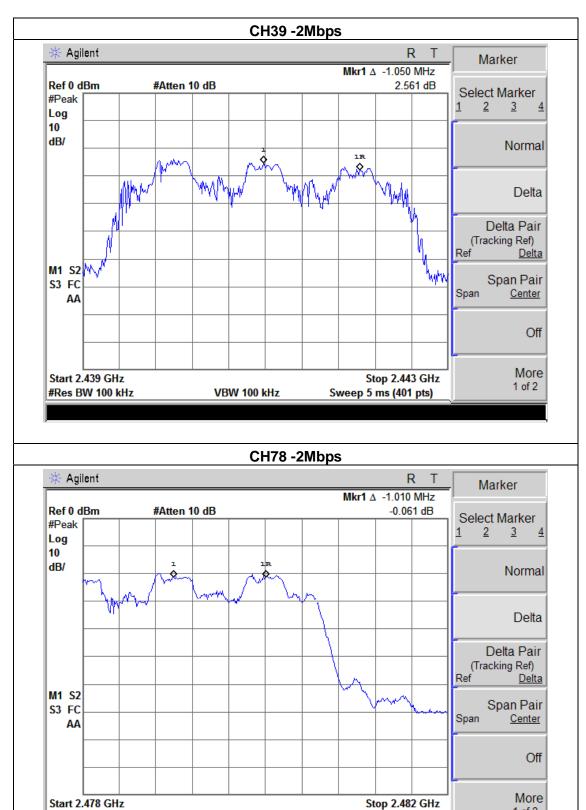
Ch. Separation Limits: >2/3 of 20dB bandwidth



1 of 2



#Res BW 100 kHz



VBW 100 kHz

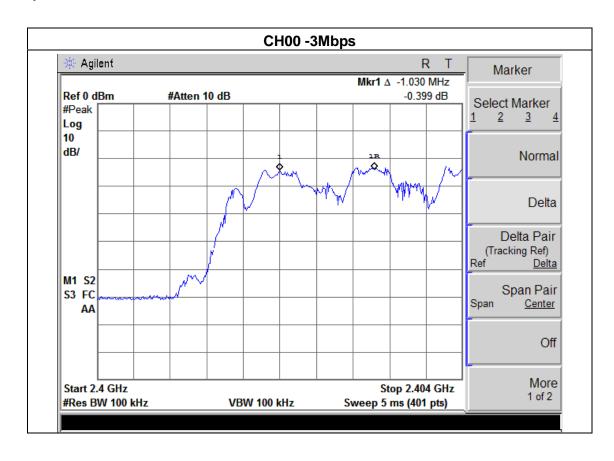
Sweep 5 ms (401 pts)



EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature:	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	3.7V
Test Mode :	CH00 / CH39 /CH78 (3Mbps Mode)		

Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.03	Complies
2441 MHz	1.02	Complies
2480 MHz	1.02	Complies

Ch. Separation Limits: >2/3 of 20dB bandwidth



Off

More

1 of 2

Stop 2.482 GHz

Sweep 5 ms (401 pts)



Start 2.478 GHz

#Res BW 100 kHz



VBW 100 kHz



7. BANDWIDTH TEST

7.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (a)(1)	Bandwidth	(20dB bandwidth)	2400-2483.5	PASS

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	30 kHz
VB	100 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

7.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 30KHz, VBW=100KHz, Sweep time = Auto.

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT OPERATION CONDITIONS

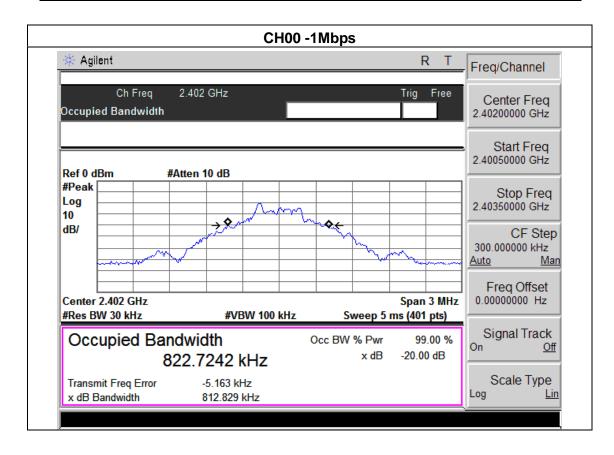
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



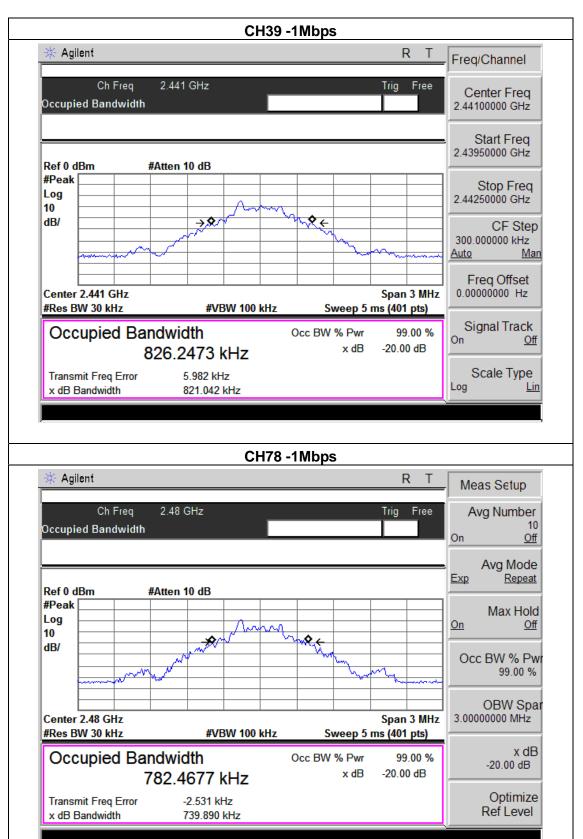
7.1.5 TEST RESULTS

EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	3.7V
Test Mode :	CH00 / CH39 /C78(1Mbps)		

Channel	Channel Frequency (MHz)	20dB Bandwidth (MHz)	99% Bandwidth (MHz)	Result
Low Channel	2402	812.829	822.742	PASS
Mid Channel	2441	821.042	826.247	PASS
High Channel	2480	739.890	782.467	PASS







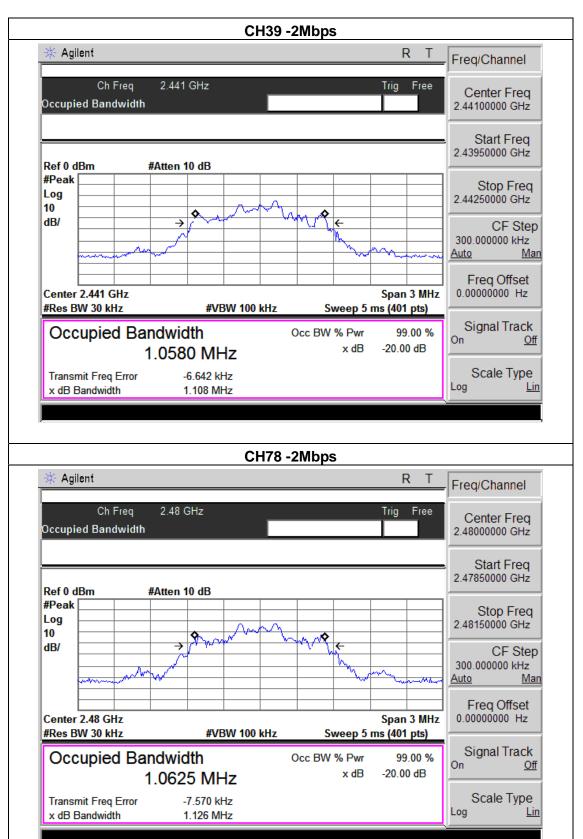


EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature :	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	3.7V
Test Mode :	CH00 / CH39 /C78 (2Mbps)		

Channel	Channel Frequency (MHz)	20dB Bandwidth (MHz)	99% Bandwidth (MHz)	Result
Low Channel	2402	1.137	1.074	PASS
Mid Channel	2441	1.108	1.058	PASS
High Channel	2480	1.126	1.062	PASS







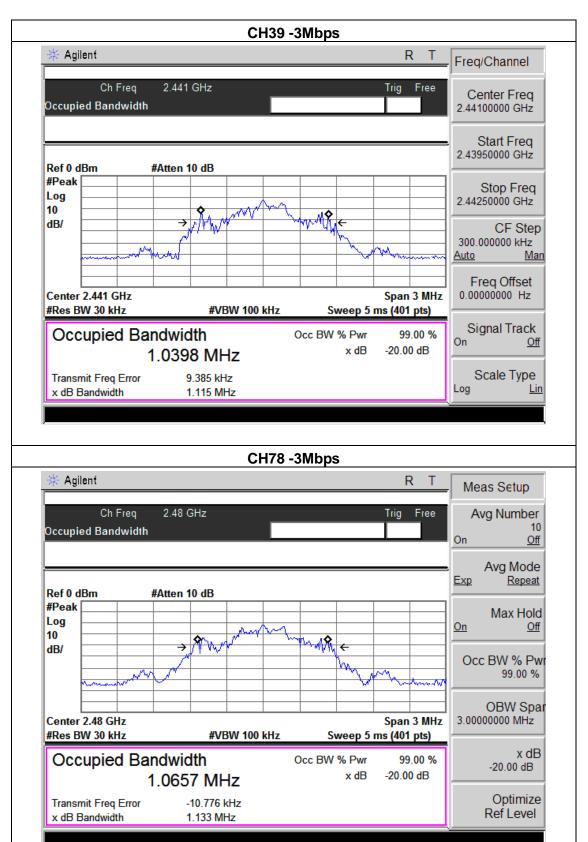


EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr
Temperature :	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	3.7V
Test Mode :	CH00 / CH39 /C78 (3Mbps)		

Channel	Channel Frequency (MHz)	20dB Bandwidth (MHz)	99% Bandwidth (MHz)	Result
Low Channel	2402	1.137	1.073	PASS
Mid Channel	2441	1.115	1.039	PASS
High Channel	2480	1.113	1.065	PASS









8. PEAK OUTPUT POWER TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (b)(i)	Peak Output Power	30dBm or 20.96dBm	2400-2483.5	PASS

8.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW > the 20 dB bandwidth of the emission being measured

Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel

 $VBW \geq RBW$

Sweep = auto

Detector function = peak

Trace = max hold

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

8.1.4 EUT OPERATION CONDITIONS

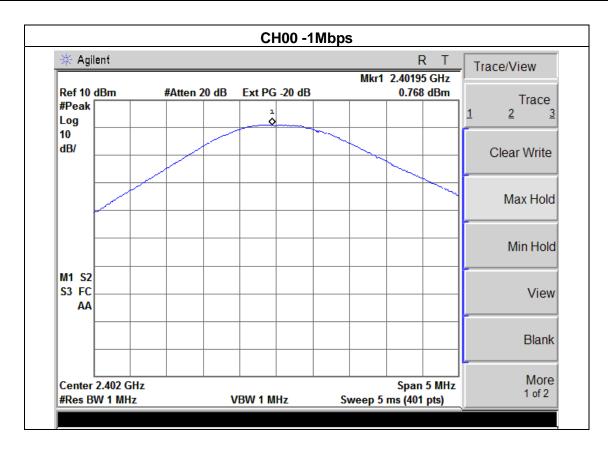
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



8.1.5 TEST RESULTS

EUT:	The Blazar Portable Bluetooth Stereo Device	Model Name :	BCN_blz-rp/slvr	
Temperature :	25 ℃	Relative Humidity:	60%	
Pressure:	1012 hPa	Test Voltage :	3.7V	
Test Mode :	CH00/ CH39 /CH78 (1M/2M/3Mbps Mode)			

Channel	Frequency (MHz)	Output Power (mW)	Limit (mW)	
		BDR mode (GFSK)		
Low	2402	1.19(0.768dBm)	1000	
Middle	2441	1.38(1.404 dBm)	1000	
High	2480	1.26(1.011 dBm)	1000	
	EDR Mode (π/4-DQPSK)			
Low	2402	1.27(1.046 dBm)	1000	
Middle	2441	1.34(1.261 dBm)	1000	
High	2480	1.34(1.265 dBm)	1000	
	EDR Mode (8 DPSK)			
Low	2402	1.16(0.634 dBm)	1000	
Middle	2441	1.25(0.978 dBm)	1000	
High	2480	1.24(0.932 dBm)	1000	



Min Hold

View

Blank

More

1 of 2

Span 5 MHz

Sweep 5 ms (401 pts)

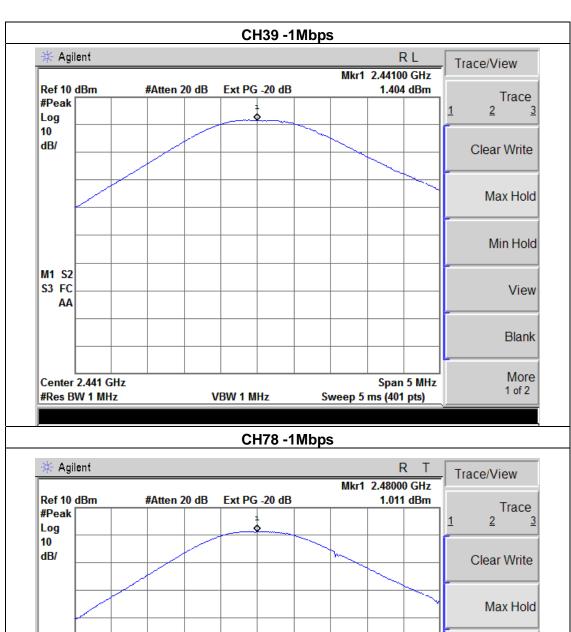


M1 S2 S3 FC

AA

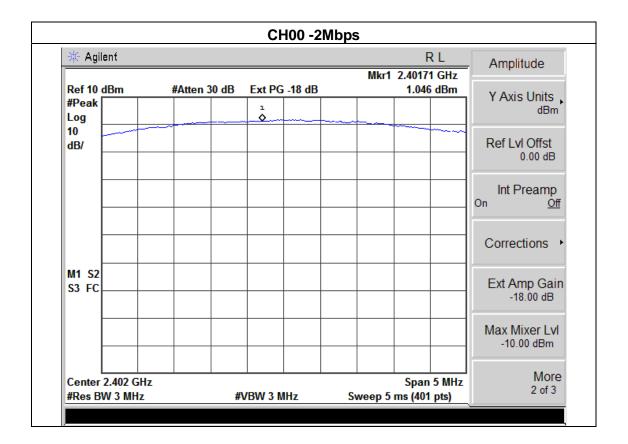
Center 2.48 GHz

#Res BW 1 MHz



VBW 1 MHz

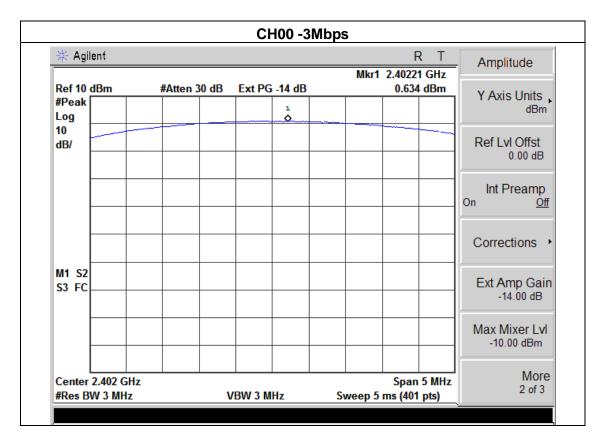


















9. ANTENNA REQUIREMENT

9.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, 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.

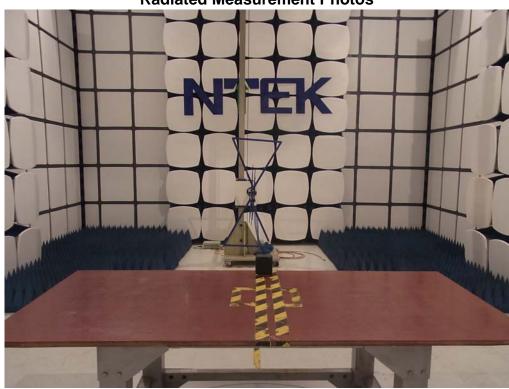
9.2 EUT ANTENNA

The EUT antenna is PCB antenna. It comply with the standard requirement.



10. EUT TEST PHOTO









CONDUCTED EMISSION Photos

