

# FCC/IC Radio Test Report

FCC ID: UZZRKS100 IC: 7633A-RKS100

This report concerns (check one): Original Grant Class II Change

**Issued Date** : Mar. 16, 2012 **Project No.** : 1203C041

**Equipment**: Portable Bluetooth Sound System

Model Name: RKS100; RK100

**Applicant**: Beautiful Enterprise Co., Ltd.

Address: 26th Floor, Beautiful Group Tower, 77 Connaught

Road Central, Hong Kong

Tested by:

Neutron Engineering Inc. EMC Laboratory

Date of Receipt: Mar. 06, 2012

**Date of Test:** 

Mar. 06, 2012 ~ Mar. 15, 2012

Testing Engineer

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#### **Declaration**

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#### 1. CERTIFICATION

Equipment: Portable Bluetooth Sound System

Brand Name: etcn

Model Name: RKS100; RK100

Applicant: Beautiful Enterprise Co., Ltd.

F a c t o r y: Shenzhen Synchron Electronics Co., Ltd.

A d d r e s s: No. 9 Mei Li Road, Xia Mei Lin, Fu Tian Area, Shenzhen, Guangdong, China

Date of Test: Mar. 06, 2012 ~ Mar. 15, 2012 Test Item: ENGINEERING SAMPLE

FCC Part15, Subpart C(15.247) / ANSI C63.4: 2003 / ANSI C63.10:2009 /

Standards: FCC Public Notice DA 00-705, March 30, 2000.

Canada RSS-210:2010

The above equipment has been tested and found compliance with the requirement of the relative standards by Neutron Engineering Inc. EMC Laboratory.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-FICP-1-1203C041) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP and TAF according to the ISO-17025 quality assessment standard and technical standard(s).

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# 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

APP	APPLIED STANDARD: 47 CFR Part 15, Subpart C; Canada RSS-210:2010			
Standar	d Section			
RSS-210	47 CFR Part 15	Test Item	Judgment	Remark
RSS-GEN 7.2.2	15.207	Conducted Emission	PASS	
RSS-210 Annex 8 (A8.1d)	15.247(d)	Antenna conducted Spurious Emission	PASS	
RSS-210 Annex 8 (A8.1d)	15.247 (a)(1)	Hopping Channel Separation	PASS	
RSS-210 Annex 8 (A8.1b)	15.247 (b)(1)	Peak Output Power	PASS	
RSS-210 Annex 8 (A8.1a)	15.247(d) 15.209	Radiated Spurious Emission	PASS	
RSS-210 Annex 8 (A8.4(2))	15.247 (a)(1)(iii)	Number of Hopping Frequency	PASS	
RSS-210 Annex 8 (A8.5)	15.247 (a)(1)(iii)	Dwell Time	PASS	
RSS-Gen 7.2.3	15.205	Restricted Bands	PASS	
RSS-210 Annex 8 (A8.5)	15.203	Antenna Requirement	PASS	

### NOTE:

- (1)" N/A" denotes test is not applicable in this Test Report
- (2) According to FCC Public Notice DA 00-705, March 30, 2000.

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#### 2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **DG-C01/DG-CB03** at the location of No.3, Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China.523792 Neutron's test firm number for FCC 319330 Neutron's test firm number for IC 4428B-1

#### 2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

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 %  $\circ$ 

# A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
DG-C01	CISPR	150 KHz ~ 30MHz	1.94	

#### B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)	NOTE
		30MHz ~ 200MHz	V	3.82	
DG-CB03	CISPR	30MHz ~ 200MHz	Н	3.60	
DG-CB03	CISER	200MHz ~ 1,000MHz	V	3.86	
		200MHz ~ 1,000MHz	Н	3.94	

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# 3. GENERAL INFORMATION

# 3.1 GENERAL DESCRIPTION OF EUT

Equipment	Portable Bluetooth Sound System			
Brand Name	פנטח			
Model Name	RKS100; RK100			
OEM Brand/Model Name	N/A	N/A		
Model Difference	7.4Vd.c,1500mAh), RK1 rechargeable li-battery)	RKS100(With solar panel and rechargeable li-battery 7.4Vd.c,1500mAh), RK100 (Without solar panel and		
	The EUT is a Portable B			
	Operation Frequency:	2402~2480 MHz		
	Modulation Type:	GFSK(1Mbps)		
	Bit Rate of Transmitter	π/4-DQPSK(2Mbps)		
		8-DPSK(3Mbps)		
	Number of Channel	79 CH		
D 1 (D : "	Antenna Designation:	Please see Note 3.		
Product Description	Antenna Gain(Peak)	Please see Note 3.		
	Output Power:	5.53 dBm (1Mbps)		
		5.66 dBm (3Mbps)		
	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.			
	#1: DC Voltage supplied	from AC Adapter.		
	Brand/Model name: KINGWALL/ AS190-120-AA150			
Power Source	#2: DC Voltage supplied from 2* rechargeable li-battery. (RKS100) #3: DC Voltage supplied from 6* Battery. (RK100)			
	#1: I/P: 100-240V~ 50/6	0Hz 0.7A		
Power Rating	O/P: 12.0V 1.5A			
1 Ower Italing	#2: DC 7.4Vd.c,1500mA	h (RKS100)		
	#3: DC 9V (RK100)			
Connecting I/O Port(s)	Please refer to the User	's Manual		

#### Note:

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

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2.

	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		

# Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Printed Antenna	N/A	-1.72

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#### 3.2 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	TX Mode <b>NOTE (1)</b>
Mode 2	RX Mode <b>NOTE</b> (1)

The EUT system operated these modes were found to be the worst case during the pre-scanning test as Following:

For Conducted Emission	
Final Test Mode	Description
Mode 1	TX Mode

For Radiated Emission	
Final Test Mode	Description
Mode 1	TX Mode <b>NOTE (1)</b>
Mode 2	RX Mode <b>NOTE (1)</b>

#### Note:

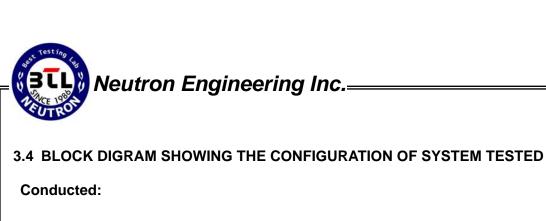
(1) The measurements are performed at the highest, middle, lowest available channels.

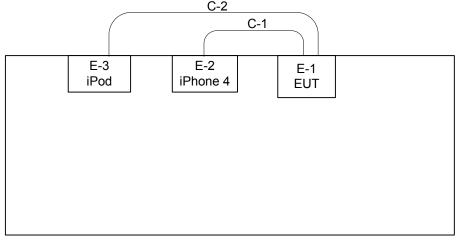
#### 3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

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: CSR		
Frequency	2402 MHz	2441 MHz	2480 MHz
Parameters-1Mbps	63	63	63
Parameters-3Mbps	100	100	100

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C-1: USB Cable C2: Audio Cable

iPhone 3

#### **Radiation TX Mode:**

E-1 EUT

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### 3.5 DESCRIPTION OF SUPPORT UNITS

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.	FCC ID/IC	Series No.	Note
E-1	Portable Bluetooth Sound System	etőn	RKS100	UZZRKS100/ 7633A-RKS100	N/A	EUT
E-2	IPHONE 4	APPLE	A1332	NA	NA	
E-3	iPod nano(8G)	Apple	A1320	DOC	YM010K6G72L	
E-4	IPHONE 3	APPLE	A1241	N/A	BCGA1241	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	YES	NO	1M	
C-2	YES	NO	1.5M	

#### 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>"Length"</code> column.

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### 4. EMC EMISSION TEST

#### 4.1 CONDUCTED EMISSION MEASUREMENT

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

FREQUENCY (MHz)	Class A (dBuV)		Class B	Standard	
FREQUENCT (MITZ)	Quasi-peak	Average	Quasi-peak	Average	Stanuaru
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.

#### 4.1.2 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2SH	00052766	May.25.2012
2	LISN	R&S	ENV216	100526	May.25.2012
3	Test Cable	N/A	C_19	N/A	Apr.25.2012
4	EMI TEST RECEIVER	R&S	ESCI	100895	May.26.2012
5	50Ω Terminator	SHX	TF2-3G-A	08122901	May.26.2012

Remark: "N/A" denotes No Model No., Serial No. or No Calibration specified.

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

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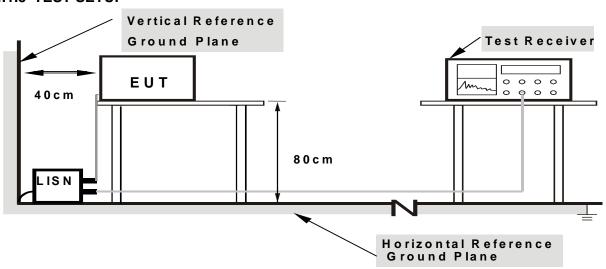
#### **4.1.3 TEST PROCEDURE**

- a. The EUT was placed 0.8 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.

#### 4.1.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.1.5 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

#### 4.1.6 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.

The EUT is continue Transmitter/Receive data or Hopping on mode.

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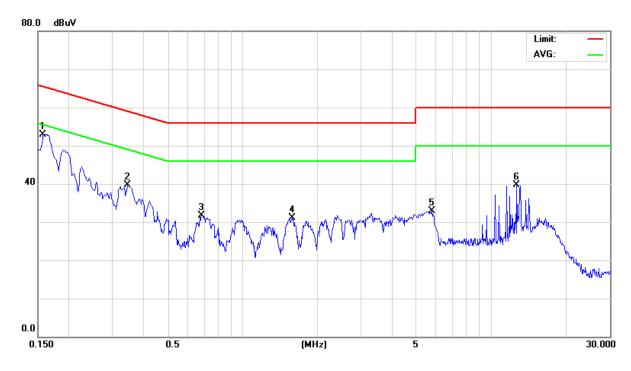
#### 4.1.74.1.7 TEST RESULTS

EUT:	Portable Bluetooth Sound System	Model Name. :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Power :	AC 120V/60Hz
Test Mode :	TX 2441MHz -CH39-1Mbps		

Freq.	Terminal	Measure	d(dBuV)	Limits	(dBuV)	Margin	Note
(MHz)	L/N	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dB)	NOLE
0.16	Line	53.00	*	65.57	55.57	-12.57	(QP)
0.35	Line	39.71	*	59.06	49.06	-19.35	(QP)
0.69	Line	31.63	*	56.00	46.00	-24.37	(QP)
1.58	Line	31.19	*	56.00	46.00	-24.81	(QP)
5.80	Line	32.88	*	60.00	50.00	-27.12	(QP)
12.67	Line	39.63	*	60.00	50.00	-20.37	(QP)

#### Remark

- (1) All readings are QP Mode value unless otherwise stated AVG in column of Note ... If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform In this case, a " \* " marked in AVG Mode column of Interference Voltage Measured •
- (2) Measuring frequency range from 150KHz to 30MHz.

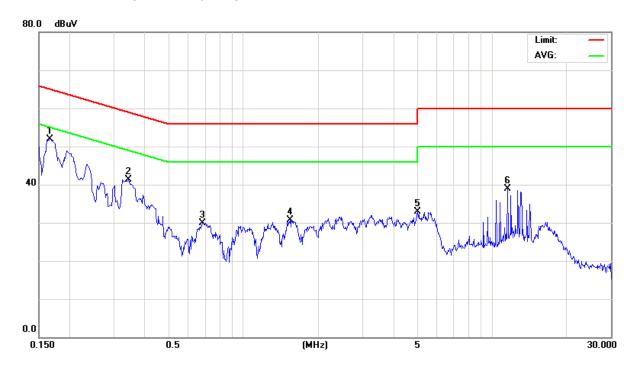


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IFUI.	Portable Bluetooth Sound System	Model Name. :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Power :	AC 120V/60Hz
Test Mode :	TX 2441MHz -CH39-1Mbps		

Freq.	Terminal	Measure	d(dBuV)	Limits(	(dBuV)	Margin	Note
(MHz)	L/N	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dB)	NOLE
0.17	Neutral	51.87	*	65.16	55.16	-13.29	(QP)
0.35	Neutral	41.37	*	59.06	49.06	-17.69	(QP)
0.69	Neutral	29.99	*	56.00	46.00	-26.01	(QP)
1.54	Neutral	30.62	*	56.00	46.00	-25.38	(QP)
5.02	Neutral	32.86	*	60.00	50.00	-27.14	(QP)
11.52	Neutral	38.96	*	60.00	50.00	-21.04	(QP)

- (1) All readings are QP Mode value unless otherwise stated AVG in column of Note. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform on this case, a " \* " marked in AVG Mode column of Interference Voltage Measured on the North Research AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measu
- (2) Measuring frequency range from 150KHz to 30MHz.



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#### 4.2 RADIATED EMISSION MEASUREMENT

# 4.2.1 RADIATED EMISSION (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/n	n) (at 3M)
FREQUENCY (WITZ)	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 unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 <sup>th</sup> harmonic of the highest frequency or 40 GHz, whichever is lower

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### 4.2.2 MEASUREMENT INSTRUMENTS LIST ANS SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160	9160-3232	Jun .04.2012
2	Amplifier	HP	8447D	2944A09673	May.26.2012
3	Test Receiver	R&S	ESCI	100382	May.26.2012
4	Test Cable	N/A	C-01_CB03	N/A	Jul.01.2012
5	Antenna	ETS	3115	00075789	May.26.2012
6	Amplifier	Agilent	8449B	3008A02274	May.26.2012
7	Spectrum	Agilent	E4408B	US39240143	Nov.25.2012
8	Test Cable	HUBER+SUHNER	C-45	N/A	May.04.2012
9	Controller	СТ	SC100	N/A	N/A
10	Test Cable	N/A	C-01_CB03	N/A	May.04.2012
11	Active Loop Antenna	R&S	HFH2-Z2	830749/020	May.26.2012
12	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Oct.13.2012

Remark: "N/A" denotes No Model Name / Serial No. and No Calibration specified.

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 Average=DK duty evelo	
band)	1 MHz / 1 MHz for Peak, Average=PK-duty cycle	

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~90kHz for PK/AVG detector
Start ~ Stop Frequency	90kHz~110kHz for QP detector
Start ~ Stop Frequency	110kHz~490kHz for PK/AVG detector
Start ~ Stop Frequency	490kHz~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

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DUTY CYCLE: TX 2402MHz (1Mbps)

Dwell time=ON/ON+OFF

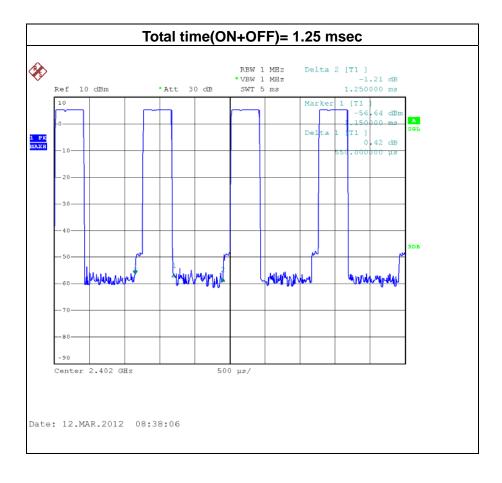
ON: 0.55msec

ON+OFF: (total time):1.25msec

Dwell time: 44%

AV=PK+20 log(Dwell time)

AV=PK-7.13



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#### **4.2.3 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 semi-anechoic chamber. 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.

# 4.2.4 DEVIATION FROM TEST STANDARD

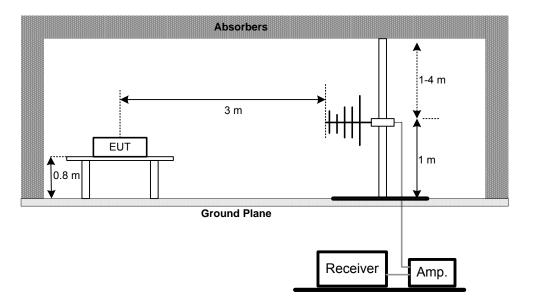
No deviation

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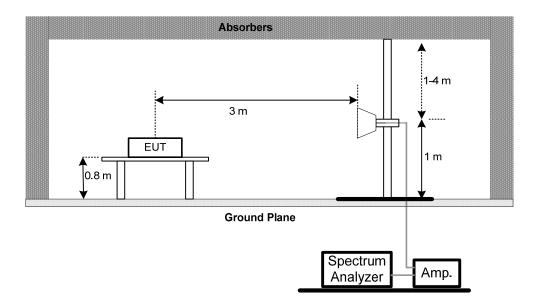


# 4.2.5 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



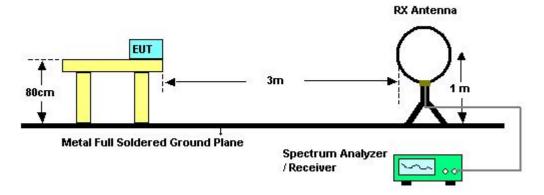
(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



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(C) For radiated emissions below 30MHz



### **4.2.6 EUT OPERATING CONDITIONS**

The EUT tested system was configured as the statements of **4.1.6** Unless otherwise a special operating condition is specified in the follows during the testing.

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# 4.2.7 TEST RESULTS (BELOW 30MHZ)

EUT:	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	46 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	TX 2402MHz -CH00-1Mbps		

Freq. (MHz)	Ant. 0°/90°	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
0.04	0°	19.25	22.81	42.06	114.83	-72.77	PK
0.46	0°	20.18	19.90	40.08	94.41	-54.32	PK
1.54	0°	22.74	19.55	42.29	63.86	-21.57	PK
4.35	0°	23.72	18.72	42.44	69.54	-27.10	PK
10.67	0°	21.06	17.84	38.90	69.54	-30.64	PK
15.49	0°	24.54	18.03	42.57	69.54	-26.97	PK

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	0°/90°	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	NOLE
0.04	90°	18.43	23.19	41.62	116.12	-74.50	PK
0.78	90°	26.92	20.46	47.38	69.72	-22.33	PK
1.53	90°	24.58	19.55	44.13	63.93	-19.80	PK
7.26	90°	25.71	18.02	43.73	69.54	-25.81	PK
11.95	90°	27.47	17.92	45.39	69.54	-24.15	PK
17.35	90°	25.17	17.77	42.94	69.54	-26.60	PK

#### Remark:

- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported ∘
- (2) Distance extrapolation factor = 40 log (specific distance / test distance) (dB); •
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor. •

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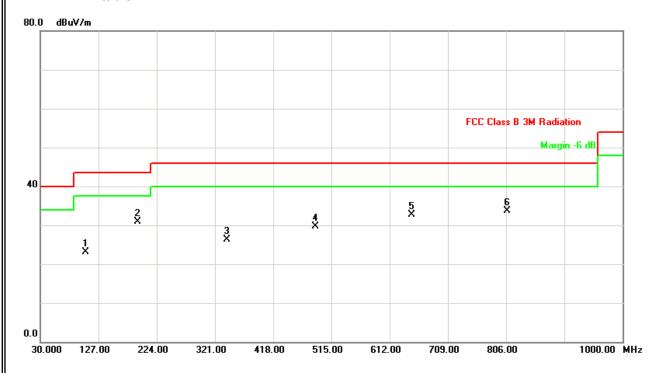
## 4.2.8 TEST RESULTS (BETWEEN30 - 1000 MHZ)

EUT:	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	TX 2402MHz –CH00-1Mbps		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
105.18	<b>V</b>	41.50	-18.38	23.12	43.50	- 20.38	
192.48	V	47.69	-16.69	31.00	43.50	- 12.50	
340.40	V	37.30	-11.07	26.23	46.00	- 19.77	
488.33	<b>V</b>	37.18	-7.54	29.64	46.00	- 16.36	
648.38	V	36.07	-3.37	32.70	46.00	- 13.30	
808.43	V	35.50	-1.71	33.79	46.00	- 12.21	

#### Remark:

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time =  $0.3 \text{ sec./MHz} \circ$
- (2) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $\circ$
- (3) Measuring frequency range from 30MHz to 1000MHz o
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table  $\circ$

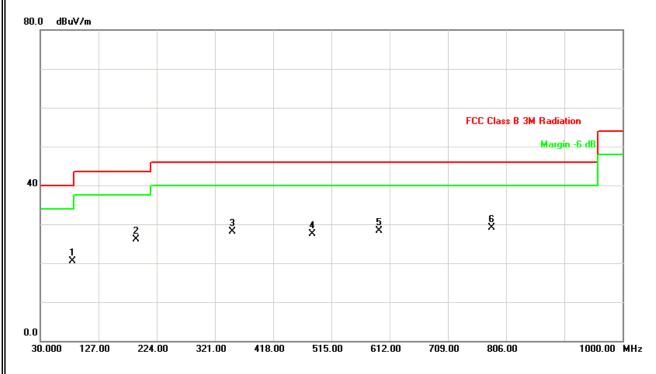


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HUI.	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	TX 2402MHz -CH00-1Mbps		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
83.35	Η	39.59	-19.10	20.49	40.00	- 19.51	
190.05	Η	42.91	-16.73	26.18	43.50	- 17.32	
350.10	Ι	38.88	-10.84	28.04	46.00	- 17.96	
483.48	Ι	35.18	-7.61	27.57	46.00	- 18.43	
595.03	Ι	32.67	-4.39	28.28	46.00	- 17.72	
781.75	Η	31.20	-2.13	29.07	46.00	- 16.93	

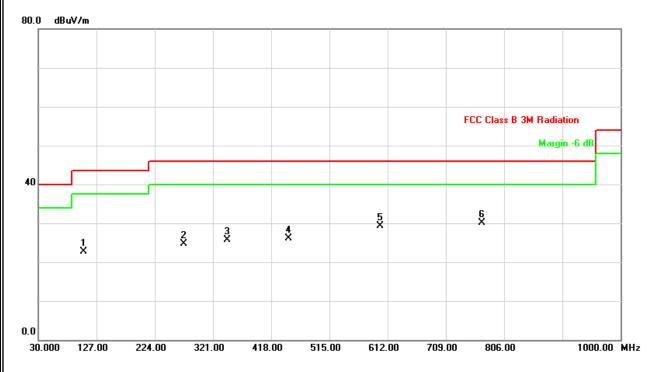
- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz  $^{\circ}$
- (2) All readings are Peak unless otherwise stated QP in column of  $\lceil$  Note  $\rceil$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $\circ$
- (3) Measuring frequency range from 30MHz to 1000MHz  $\circ$
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table  $\circ$



HUI.	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	TX 2441MHz –CH39-1Mbps		

Freq. (MHz)	Ant. H∕V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
105.18	V	40.99	-18.38	22.61	43.50	- 20.89	
272.50	V	37.76	-13.12	24.64	46.00	- 21.36	
345.25	V	36.59	-10.96	25.63	46.00	- 20.37	
447.10	V	34.34	-8.17	26.17	46.00	- 19.83	
599.88	V	33.66	-4.27	29.39	46.00	- 16.61	
769.63	V	32.35	-2.30	30.05	46.00	- 15.95	

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz  $^{\circ}$
- (2) All readings are Peak unless otherwise stated QP in column of  $\lceil$  Note  $\rceil$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $\circ$
- (3) Measuring frequency range from 30MHz to 1000MHz  $\circ$
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table  $\circ$

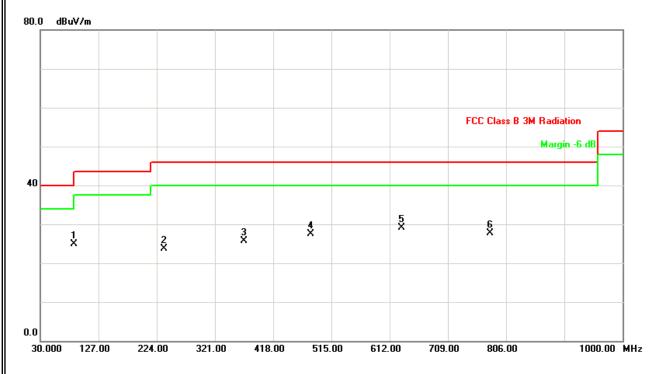


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EUI.	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	TX 2441MHz –CH39-1Mbps		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
85.78	Ι	44.09	-19.11	24.98	40.00	- 15.02	
236.13	Η	39.11	-15.34	23.77	46.00	- 22.23	
369.50	Ι	35.88	-10.13	25.75	46.00	- 20.25	
481.05	Ι	35.10	-7.64	27.46	46.00	- 18.54	
631.40	Ι	32.80	-3.68	29.12	46.00	- 16.88	
779.33	Η	29.82	-2.16	27.66	46.00	- 18.34	

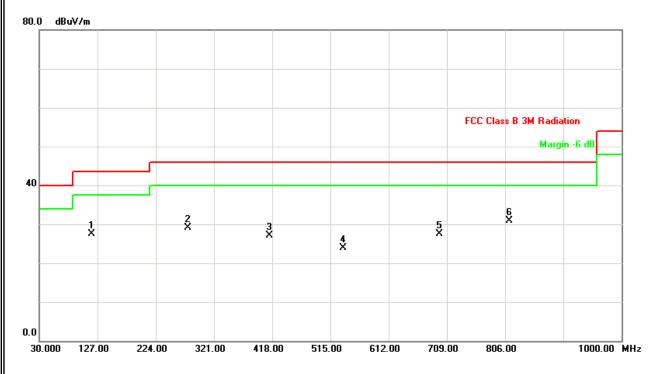
- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz  $^{\circ}$
- (2) All readings are Peak unless otherwise stated QP in column of  $\lceil$  Note  $\rceil$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $\circ$
- (3) Measuring frequency range from 30MHz to 1000MHz  $\circ$
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table  $\circ$



HUI.	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	TX 2480MHz -CH78-1Mbps		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
117.30	V	45.80	-18.30	27.50	43.50	- 16.00	
277.35	V	41.97	-12.81	29.16	46.00	- 16.84	
413.15	<b>&gt;</b>	35.95	-8.79	27.16	46.00	- 18.84	
536.83	٧	29.97	-5.98	23.99	46.00	- 22.01	
696.88	V	30.67	-3.18	27.49	46.00	- 18.51	
813.28	V	32.45	-1.61	30.84	46.00	- 15.16	·

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time =  $0.3 \text{ sec./MHz} \circ$
- (2) All readings are Peak unless otherwise stated QP in column of  $\lceil$  Note  $\rceil$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $\circ$
- (3) Measuring frequency range from 30MHz to 1000MHz  $\circ$
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table  $\circ$

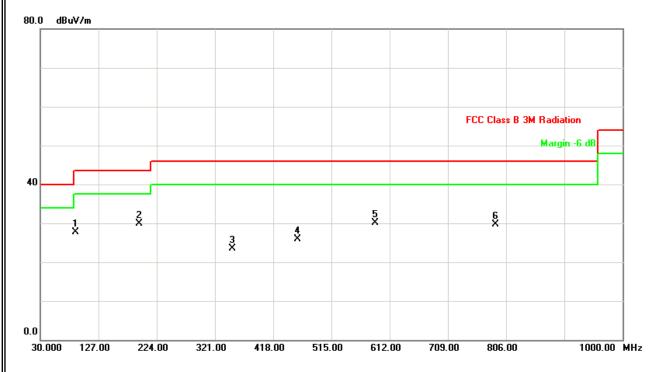


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HUI.	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	TX 2480MHz -CH78-1Mbps		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
88.20	Ι	46.88	-19.08	27.80	43.50	- 15.70	
194.90	Η	46.62	-16.66	29.96	43.50	- 13.54	
350.10	Ι	34.38	-10.84	23.54	46.00	- 22.46	
459.23	Ι	33.95	-7.97	25.98	46.00	- 20.02	
587.75	Ι	34.65	-4.57	30.08	46.00	- 15.92	
789.03	Η	31.77	-2.02	29.75	46.00	- 16.25	

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz  $^{\circ}$
- (2) All readings are Peak unless otherwise stated QP in column of  $\lceil$  Note  $\rceil$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $\circ$
- (3) Measuring frequency range from 30MHz to 1000MHz  $\circ$
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table  $\circ$

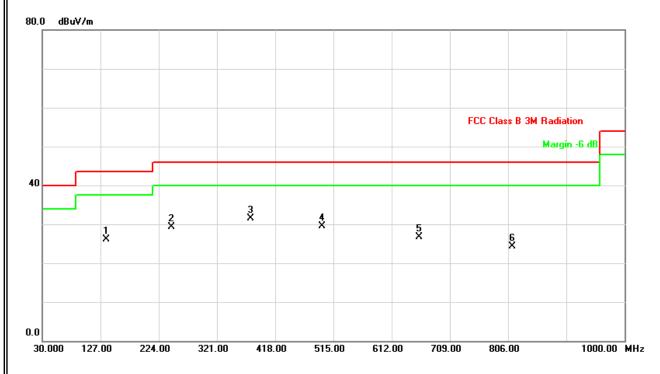


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IEUI.	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	TX 2402MHz -CH00-3Mbps		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
136.70	<b>V</b>	43.99	-17.86	26.13	43.50	- 17.37	
245.83	V	44.22	-14.82	29.40	46.00	- 16.60	
376.78	<b>V</b>	41.37	-9.86	31.51	46.00	- 14.49	
495.60	V	36.90	-7.42	29.48	46.00	- 16.52	
658.08	V	30.06	-3.30	26.76	46.00	- 19.24	
813.28	V	25.95	-1.61	24.34	46.00	- 21.66	

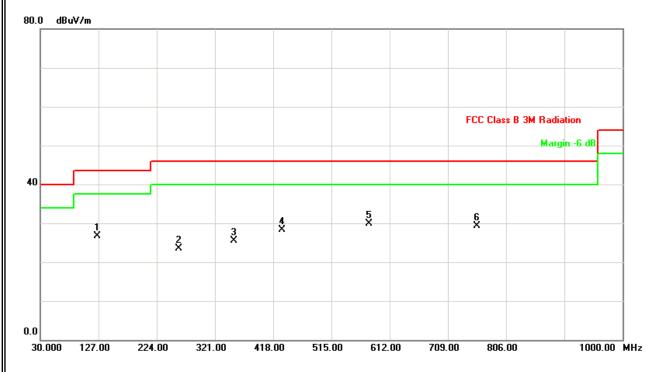
- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time =  $0.3 \text{ sec./MHz} \circ$
- (2) All readings are Peak unless otherwise stated QP in column of  $\lceil$  Note  $\rceil$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $\circ$
- (3) Measuring frequency range from 30MHz to 1000MHz  $\circ$
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table  $\circ$



IEUI.	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	TX 2402MHz -CH00-3Mbps		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
124.58	Ι	44.94	-18.20	26.74	43.50	- 16.76	
260.38	Η	37.41	-13.83	23.58	46.00	- 22.42	
352.53	Ι	36.34	-10.75	25.59	46.00	- 20.41	
432.55	Ι	36.68	-8.43	28.25	46.00	- 17.75	
578.05	Η	34.65	-4.81	29.84	46.00	- 16.16	
757.50	Η	31.78	-2.47	29.31	46.00	- 16.69	

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz  $^{\circ}$
- (2) All readings are Peak unless otherwise stated QP in column of  $\lceil$  Note  $\rceil$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $\circ$
- (3) Measuring frequency range from 30MHz to 1000MHz  $\circ$
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table  $\circ$

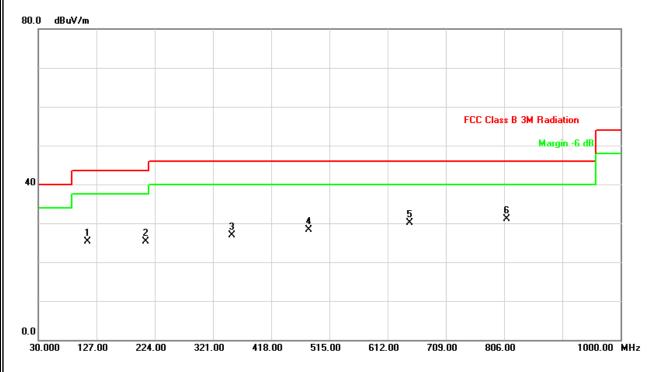


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EUT:	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	TX 2441MHz -CH39-3Mbps		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	HΛ	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	11010
112.45	V	43.64	-18.34	25.30	43.50	- 18.20	
209.45	V	41.71	-16.33	25.38	43.50	- 18.12	
352.53	V	37.69	-10.75	26.94	46.00	- 19.06	
481.05	V	35.87	-7.64	28.23	46.00	- 17.77	
648.38	V	33.57	-3.37	30.20	46.00	- 15.80	
810.85	V	32.68	-1.66	31.02	46.00	- 14.98	

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz  $^{\circ}$
- (2) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $\circ$
- (3) Measuring frequency range from 30MHz to 1000MHz  $\circ$
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table  $\circ$

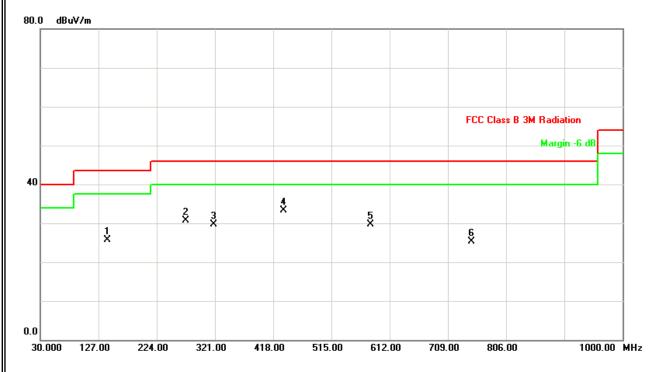


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IEUI.	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	TX 2441MHz –CH39-3Mbps		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
141.55	Ι	43.49	-17.70	25.79	43.50	- 17.71	
272.50	Η	43.81	-13.12	30.69	46.00	- 15.31	
318.58	Ι	41.22	-11.61	29.61	46.00	- 16.39	
434.98	Ι	41.63	-8.39	33.24	46.00	- 12.76	
580.48	Η	34.46	-4.75	29.71	46.00	- 16.29	
747.80	Η	27.91	-2.59	25.32	46.00	- 20.68	

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz  $^{\circ}$
- (2) All readings are Peak unless otherwise stated QP in column of  $\lceil$  Note  $\rceil$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $\circ$
- (3) Measuring frequency range from 30MHz to 1000MHz  $\circ$
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table  $\circ$

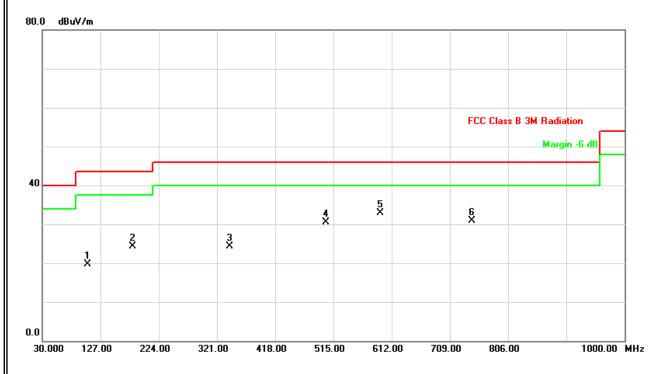


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HUI.	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	TX 2480MHz -CH78-3Mbps		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
105.18	V	37.99	-18.38	19.61	43.50	- 23.89	
180.35	V	41.19	-16.88	24.31	43.50	- 19.19	
342.83	V	35.33	-11.01	24.32	46.00	- 21.68	
502.88	V	37.78	-7.25	30.53	46.00	- 15.47	
592.60	V	37.27	-4.45	32.82	46.00	- 13.18	
745.38	V	33.59	-2.63	30.96	46.00	- 15.04	

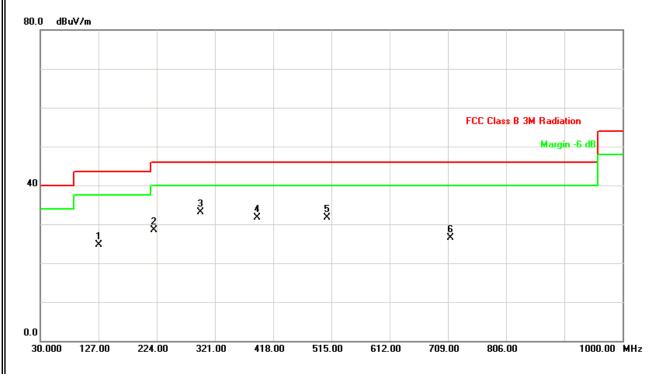
- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz  $^{\circ}$
- (2) All readings are Peak unless otherwise stated QP in column of  $\lceil$  Note  $\rceil$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $\circ$
- (3) Measuring frequency range from 30MHz to 1000MHz  $\circ$
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table  $\circ$



IEUI.	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	TX 2480MHz -CH78-3Mbps		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
127.00	Η	42.83	-18.16	24.67	43.50	- 18.83	
219.15	Ι	44.46	-15.89	28.57	46.00	- 17.43	
296.75	Ι	45.13	-12.07	33.06	46.00	- 12.94	
391.33	Ι	41.07	-9.34	31.73	46.00	- 14.27	
507.73	Ι	38.76	-7.07	31.69	46.00	- 14.31	
713.85	Η	29.55	-3.00	26.55	46.00	- 19.45	

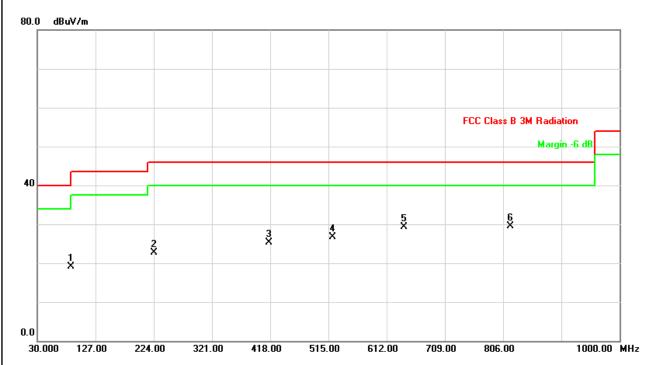
- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time =  $0.3 \text{ sec./MHz} \circ$
- (2) All readings are Peak unless otherwise stated QP in column of  $\lceil$  Note  $\rceil$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $\circ$
- (3) Measuring frequency range from 30MHz to 1000MHz  $\circ$
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table  $\circ$



FUI:	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	RX Mode 2402MHz		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin	Note
85.78	/V 	38.27	(dB) -19.11	19.16	40.00	(dB) - 20.84	
224.00	V	38.41	-15.76	22.65	46.00	- 23.35	
415.58	V	34.01	-8.74	25.27	46.00	- 20.73	
522.28	V	33.25	-6.52	26.73	46.00	- 19.27	
641.10	V	32.73	-3.51	29.22	46.00	- 16.78	
818.13	V	31.11	-1.51	29.60	46.00	- 16.40	

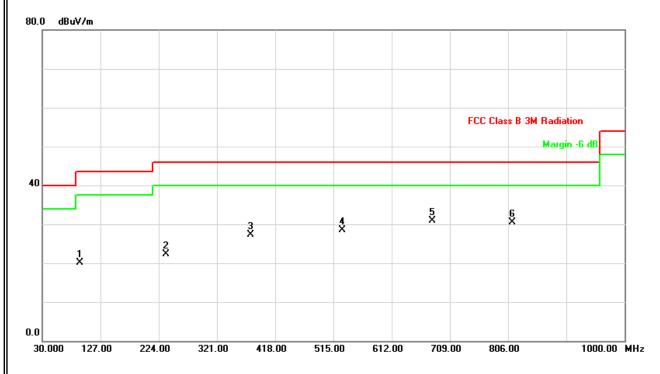
- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time =  $0.3 \text{ sec./MHz} \circ$
- (2) All readings are Peak unless otherwise stated QP in column of  $\lceil$  Note  $\rceil$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $\circ$
- (3) Measuring frequency range from 30MHz to 1000MHz  $\circ$
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table  $\circ$



FUI:	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	RX Mode 2402MHz		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
93.05	Ι	38.77	-18.72	20.05	43.50	- 23.45	
236.13	Η	37.61	-15.34	22.27	46.00	- 23.73	
376.78	Ι	37.13	-9.86	27.27	46.00	- 18.73	
529.55	Н	34.82	-6.26	28.56	46.00	- 17.44	
679.90	Ι	34.13	-3.24	30.89	46.00	- 15.11	
813.28	Η	32.10	-1.61	30.49	46.00	- 15.51	

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz  $^{\circ}$
- (2) All readings are Peak unless otherwise stated QP in column of  $\lceil$  Note  $\rceil$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $\circ$
- (3) Measuring frequency range from 30MHz to 1000MHz  $\circ$
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table  $\circ$



# 4.2.94.2.9 TEST RESULTS (ABOVE 1000 MHZ)

EUT:	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	25 ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	TX 2402MHz – CH 00-1Mbps		

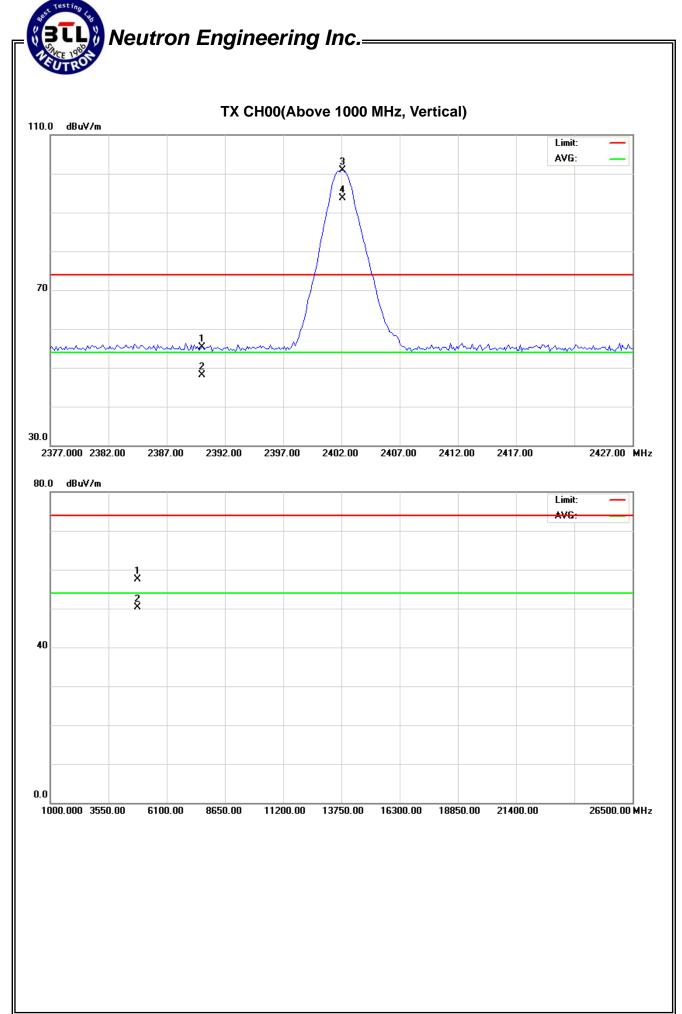
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Margin		
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	23.38	16.25	31.91	55.29	48.16	74.00	54.00	-18.71	-5.84	X/E
2402.13	٧	69.02	61.89	31.90	100.92	93.79					X/F
4804.14	V	52.20	45.07	5.21	57.41	50.28	74.00	54.00	-16.59	-3.72	X/H

### Remark:

- (1) All readings are Peak unless otherwise stated QP in column of  ${}^{\mathbb{F}}$ Note $_{\mathbb{J}}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $\circ$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency of F' denotes fundamental frequency; "H' denotes spurious frequency. "E' denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission  $\circ$
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) The average value of fundamental frequency is:

  Average = Peak value + 20log(Duty cycle) , Final AV=PK-7.13

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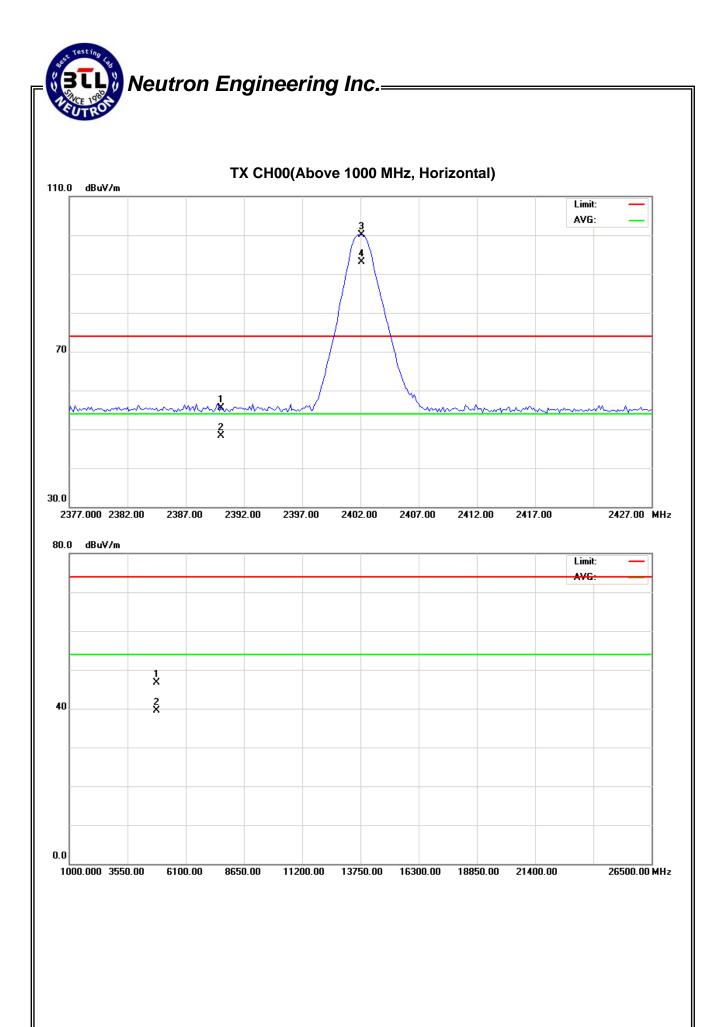
EUT:	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	TX 2402MHz – CH 00-1Mbps		

Freq.	Ant.Pol.	. Reading		Ant./CF	Act.		Limit		Margin		
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	Н	23.56	16.43	31.91	55.47	48.34	74.00	54.00	-18.53	-5.66	X/E
2402.13	Н	68.27	61.14	31.90	100.17	93.04					X/F
4804.18	Н	41.48	34.35	5.21	46.69	39.56	74.00	54.00	-27.31	-14.44	X/H

- (1) All readings are Peak unless otherwise stated QP in column of  $\lceil$ Note $_{
  m J}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $_{
  m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency of F' denotes fundamental frequency; "H' denotes spurious frequency. "E' denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission o
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) The average value of fundamental frequency is:

  Average = Peak value + 20log(Duty cycle) , Final AV=PK-7.13

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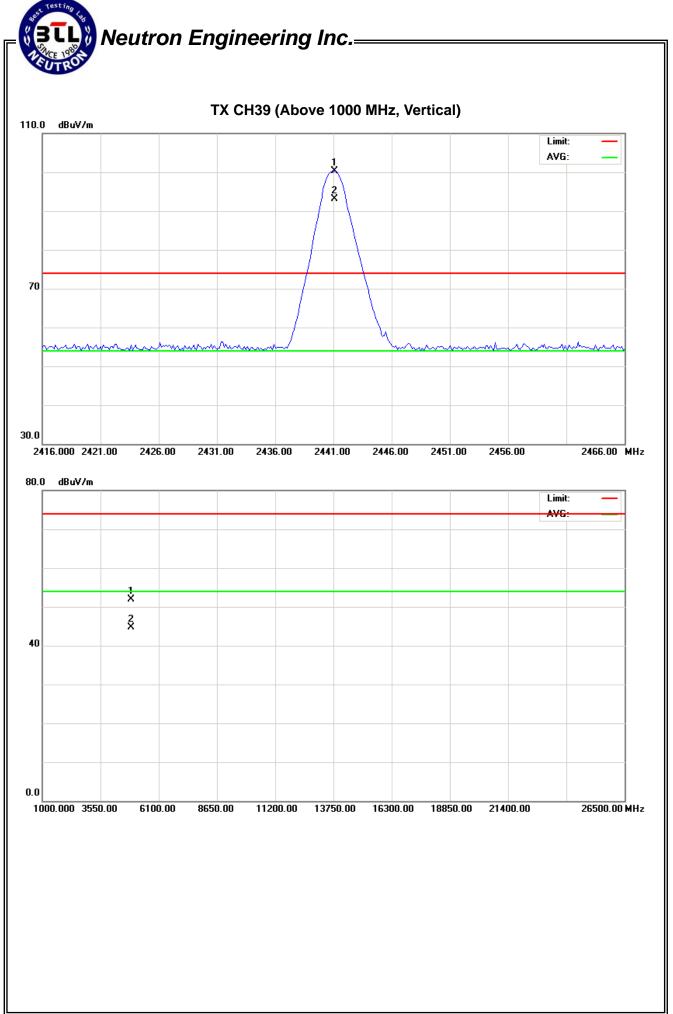
EUT:	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	TX 2441MHz –CH39-1Mbps		

Freq. Ant.Pol		Reading		Ant./CF	Act.		Limit		Margin		
rieq.	Ant.Foi.	Peak	AV		Peak	AV	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2441.13	V	68.40	61.27	31.85	100.25	93.12					X/F
4882.15	V	46.38	39.25	5.50	51.88	44.75	74.00	54.00	-22.12	-9.25	X/H

- (1) All readings are Peak unless otherwise stated QP in column of  $\lceil$ Note $_{
  m J}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $_{
  m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission  $\circ$
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) The average value of fundamental frequency is:

  Average = Peak value + 20log(Duty cycle) , Final AV=PK-7.13

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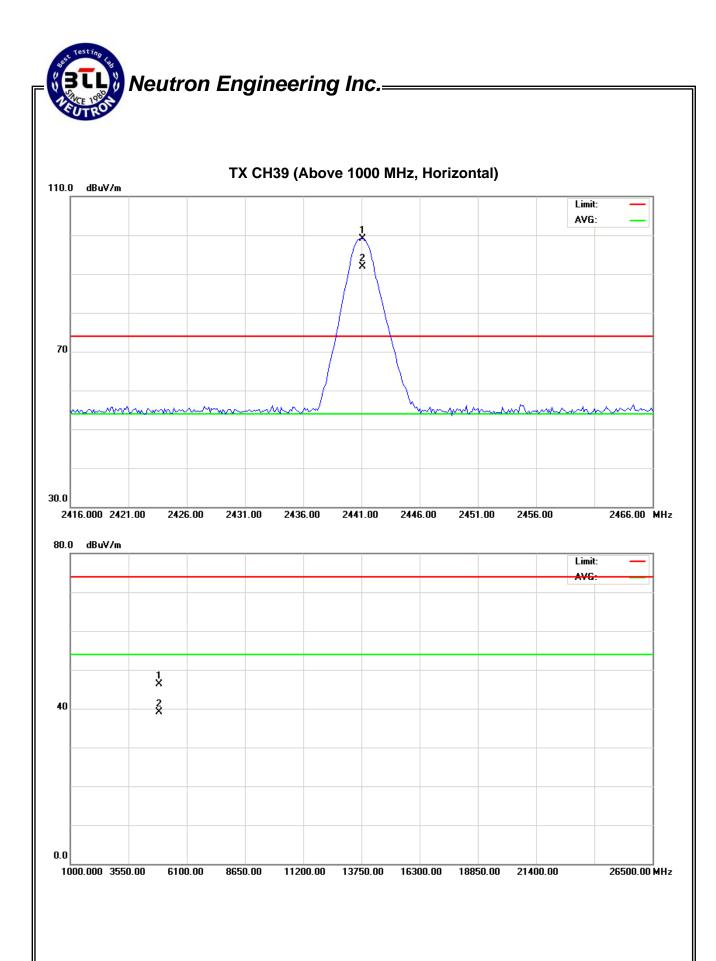
EUT:	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	TX 2441MHz -CH39-1Mbps		

Freq. Ant.P	Ant Dol	Rea	ding	Ant./CF	Ac	t.	Lir	nit	Ma	rgin	
	AIIL.FUI.	Peak	AV		Peak	AV	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2441.13	Н	67.22	60.09	31.85	99.07	91.94					X/F
4882.23	Н	40.77	33.64	5.50	46.27	39.14	74.00	54.00	-27.73	-14.86	X/H

- (1) All readings are Peak unless otherwise stated QP in column of  $\lceil$ Note $_{
  m J}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $_{
  m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission  $\circ$
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) The average value of fundamental frequency is:

  Average = Peak value + 20log(Duty cycle) , Final AV=PK-7.13

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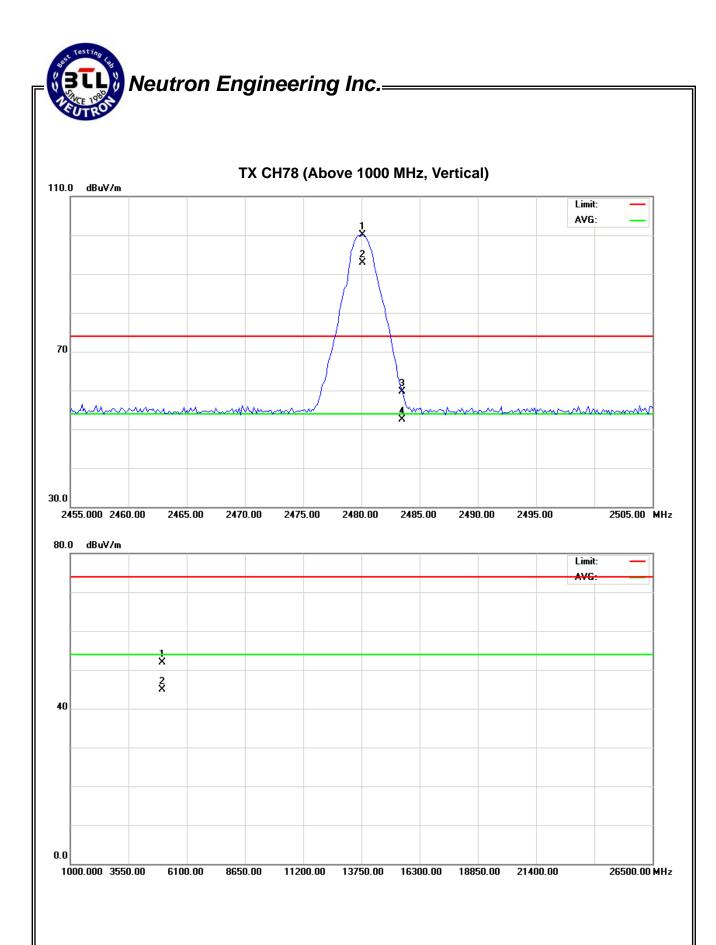
EUT:	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	TX 2480MHz –CH78-1Mbps		

Freq.	Ant.Pol.	Rea	ding	Ant./CF	Act.		Limit		Margin		
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	Note
(MHz)	ΗΛ	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2480.13	٧	68.27	61.14	31.80	100.07	92.94					X/F
2483.50	V	27.89	20.76	31.80	59.69	52.56	74.00	54.00	-14.31	-1.44	X/E
4960.12	V	46.18	39.05	5.78	51.96	44.83	74.00	54.00	-22.04	-9.17	X/H

- (1) All readings are Peak unless otherwise stated QP in column of  $\lceil$ Note $_{
  m J}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $_{
  m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission o
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) The average value of fundamental frequency is:

  Average = Peak value + 20log(Duty cycle) , Final AV=PK-7.13

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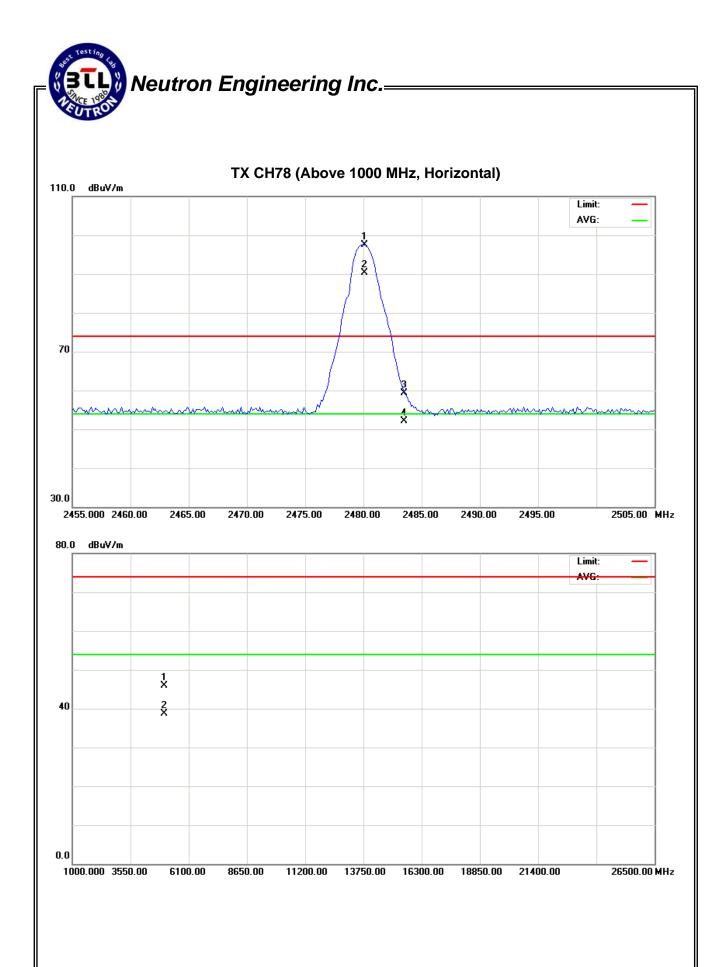
EUT:	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	TX 2480MHz -CH78-1Mbps		

Freq.	Ant.Pol.	Rea	ding	Ant./CF	Α	ct.	Lir	nit	Ma	rgin	
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	Note
(MHz)	ΗΛ	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2480.13	Н	65.72	58.59	31.80	97.52	90.39					X/F
2483.50	Н	27.47	20.34	31.80	59.27	52.14	74.00	54.00	-14.73	-1.86	X/E
4860.27	Н	40.09	32.96	5.78	45.87	38.74	74.00	54.00	-28.13	-15.26	X/H

- (1) All readings are Peak unless otherwise stated QP in column of  $\lceil$ Note $_{
  m J}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $_{
  m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency of F' denotes fundamental frequency; "H' denotes spurious frequency. "E' denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission  $\circ$
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) The average value of fundamental frequency is:

  Average = Peak value + 20log(Duty cycle) , Final AV=PK-7.13

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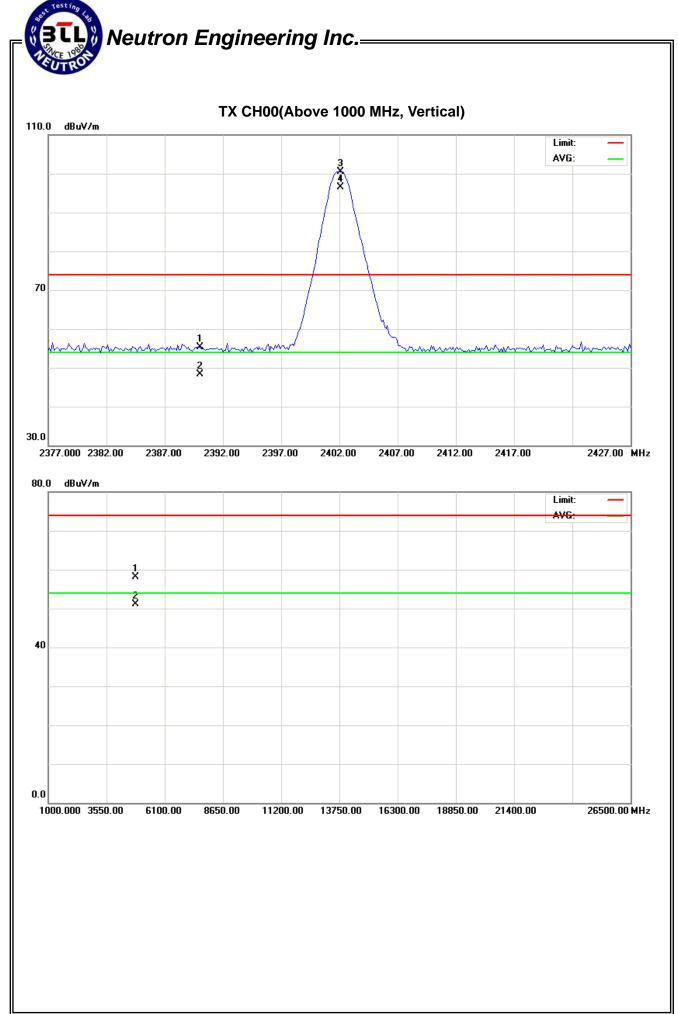
EUT:	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	TX 2402MHz – CH 00-3Mbps		

Freq.	Ant.Pol.	Rea	ding	Ant./CF	t./CF Act.		Limit		Ma	rgin	
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	23.48	16.35	31.91	55.39	48.26	74.00	54.00	-18.61	-5.74	X/E
2402.13	٧	68.65	64.52	31.90	100.55	96.42					X/F
4804.15	V	52.93	45.80	5.21	58.14	51.01	74.00	54.00	-15.86	-2.99	X/H

- (1) All readings are Peak unless otherwise stated QP in column of  $\lceil$ Note $_{
  m J}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $_{
  m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission  $\circ$
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) The average value of fundamental frequency is:

  Average = Peak value + 20log(Duty cycle) , Final AV=PK-7.13

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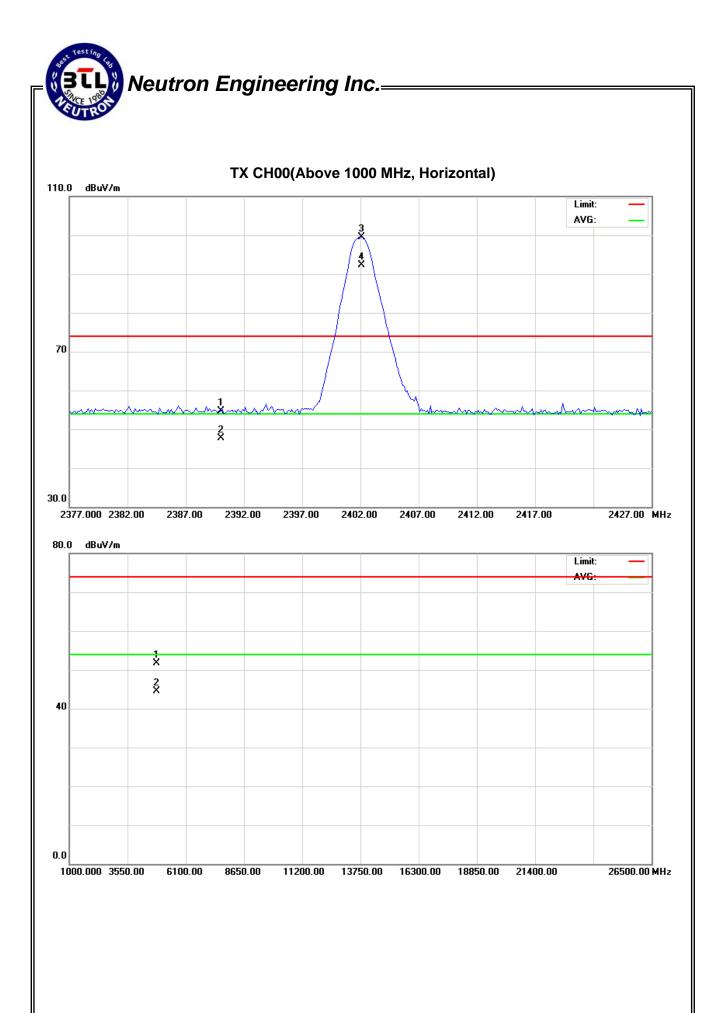
IEUI.	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	TX 2402MHz – CH 00-3Mbps		

Freq.	Ant.Pol.	Rea	ding	Ant./CF	Act.		Limit		Ма	rgin	
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	Note
(MHz)	Η/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	Н	22.86	15.73	31.91	54.77	47.64	74.00	54.00	-19.23	-6.36	X/E
2402.13	Н	67.58	60.45	31.90	99.48	92.35					X/F
4804.30	Н	46.45	39.32	5.21	51.66	44.53	74.00	54.00	-22.34	-9.47	X/H

- (1) All readings are Peak unless otherwise stated QP in column of  ${}^{\mathbb{F}}$ Note ${}_{\mathbb{J}}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  ${}^{\circ}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission  $\circ$
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) The average value of fundamental frequency is:

  Average = Peak value + 20log(Duty cycle) , Final AV=PK-7.13

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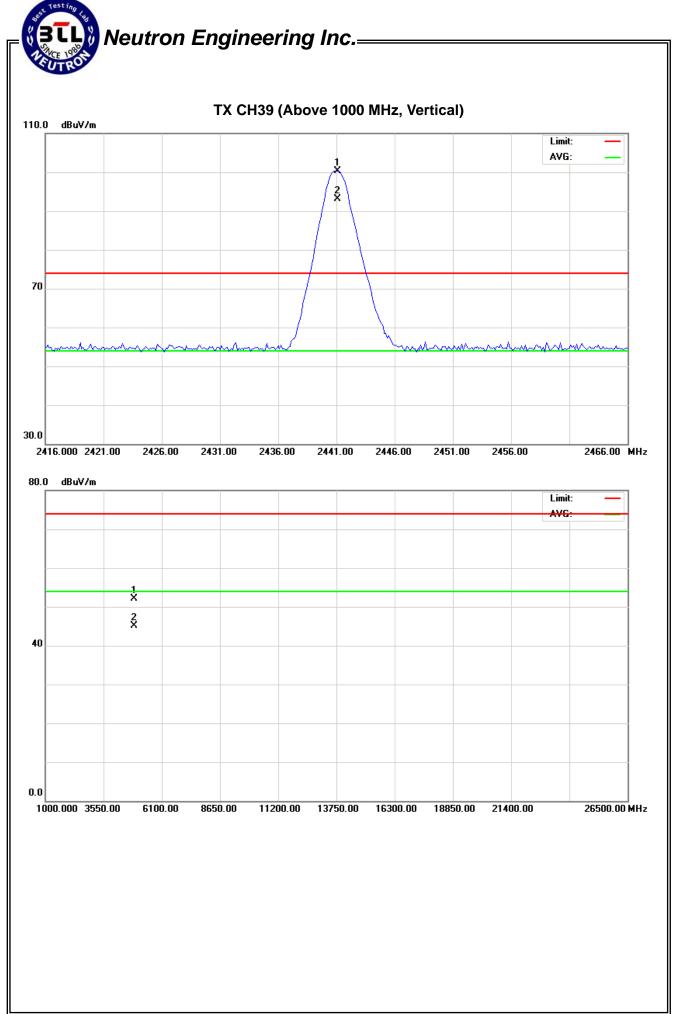
EUT:	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	TX 2441MHz -CH39-3Mbps		

Freq.	Ant.Pol.	Rea	ding	Ant./CF	Ant./CF Act		Limit		Margin		
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2441.13	٧	68.41	61.28	31.85	100.26	93.13					X/F
4882.24	V	46.66	39.53	5.50	52.16	45.03	74.00	54.00	-21.84	-8.97	X/H

- (1) All readings are Peak unless otherwise stated QP in column of  $\lceil$ Note $_{
  m J}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $_{
  m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission  $\circ$
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) The average value of fundamental frequency is:

  Average = Peak value + 20log(Duty cycle) , Final AV=PK-7.13

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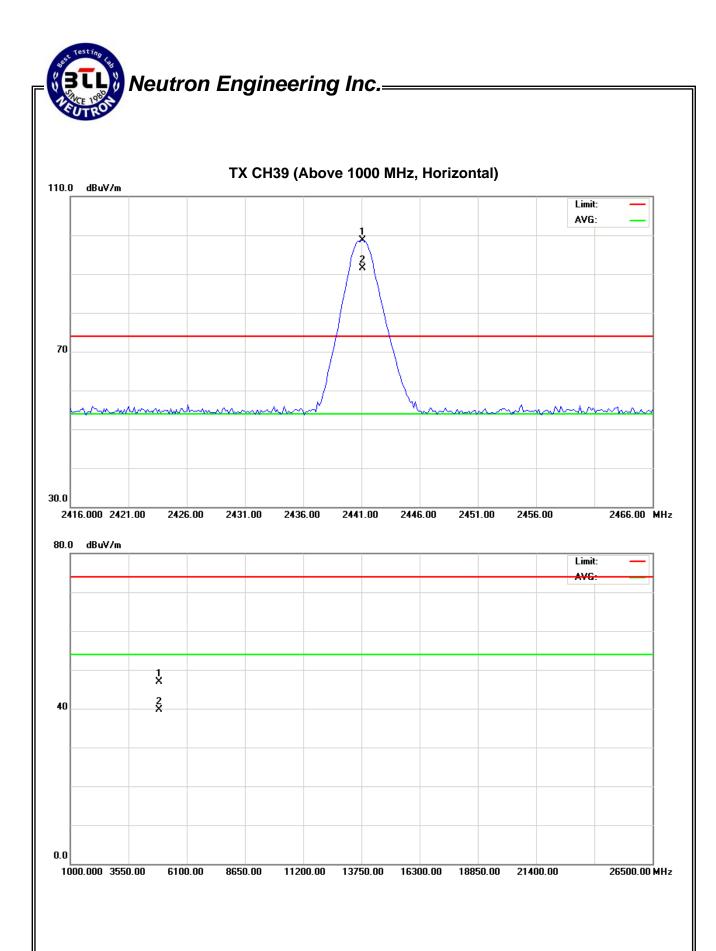
EUT:	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	TX 2441MHz -CH39-3Mbps		

Freq.	Ant.Pol.	Read	ding	Ant./CF	CF Act.		Limit		Margin		
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2441.13	Н	66.83	59.70	31.85	98.68	91.55					X/F
4882.16	Н	41.32	34.19	5.50	46.82	39.69	74.00	54.00	-27.18	-14.31	X/H

- (1) All readings are Peak unless otherwise stated QP in column of  ${}^{\mathbb{F}}$ Note $_{\mathbb{J}}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $\circ$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ∘
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) The average value of fundamental frequency is:

  Average = Peak value + 20log(Duty cycle) , Final AV=PK-7.13

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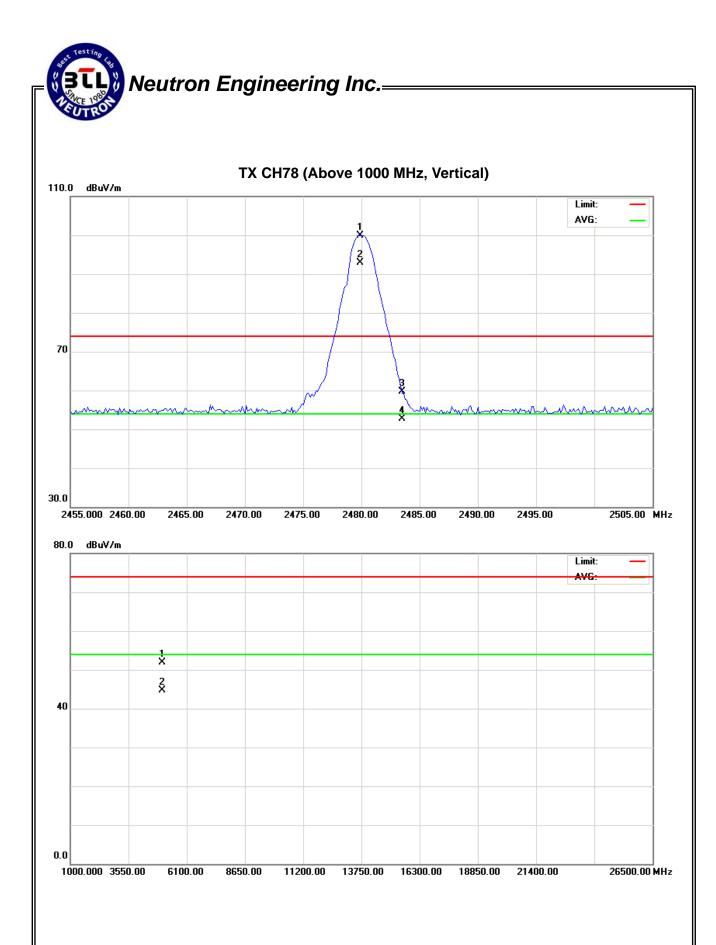
EUT:	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	TX 2480MHz -CH78-3Mbps		

Freq.	Ant.Pol.	Rea	ding	Ant./CF	Act.		Limit		Margin		
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2479.88	V	68.18	61.05	31.80	99.98	92.85					X/F
2483.50	V	27.95	20.82	31.80	59.75	52.62	74.00	54.00	-14.25	-1.38	X/E
4960.27	V	46.09	38.96	5.78	51.87	44.74	74.00	54.00	-22.13	-9.26	X/H

- (1) All readings are Peak unless otherwise stated QP in column of  ${}^{\mathbb{F}}$ Note ${}_{\mathbb{J}}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  ${}^{\circ}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission  $\circ$
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) The average value of fundamental frequency is:

  Average = Peak value + 20log(Duty cycle) , Final AV=PK-7.13

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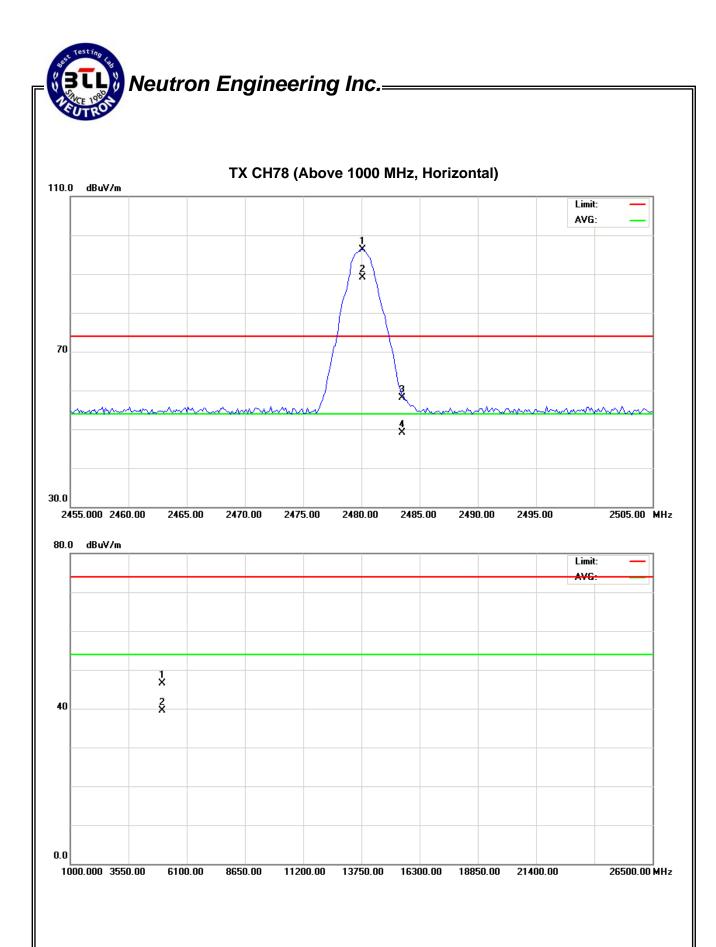
EUT:	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	TX 2480MHz -CH78-3Mbps		

	U Company										
Freq. Ant.Pol. Reading Ant./CF Act. Limit	Margir	า									
Peak AV Peak AV Peak AV	Peak	AV Note									
(MHz) H/V (dBuV) (dBuV) CF(dB) (dBuV/m) (dBuV/m) (dBuV/m) (dBuV/m	) (dBuV/m) (dE	3uV/m)									
2480.13 H 64.42 57.29 31.80 96.22 89.09		X/F									
2483.50 H 26.40 17.27 31.80 58.20 49.07 74.00 54.00	-15.80 -	-4.93 X/E									
4960.14 H 40.80 33.67 5.78 46.58 39.45 74.00 54.00	-27.42 -	14.55 X/H									

- (1) All readings are Peak unless otherwise stated QP in column of  ${}^{\mathbb{F}}$ Note ${}_{\mathbb{J}}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  ${}^{\circ}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission  $\circ$
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  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) The average value of fundamental frequency is:

  Average = Peak value + 20log(Duty cycle) , Final AV=PK-7.13

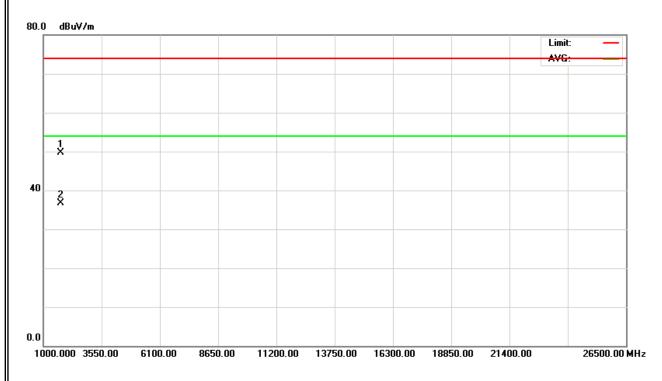
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EUT:	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	RX Mode 2402MHz - 1Mbps		

Freq.	Ant.Pol.	. Reading		Ant./CF	Act.		Limit		Margin		
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
1714.25	Н	53.56	40.52	-3.79	49.77	36.73	74.00	54.00	-24.23	-17.27	X/H

- (1) All readings are Peak unless otherwise stated QP in column of  ${}^{\mathbb{F}}$ Note ${}_{\mathbb{J}}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  ${}_{\circ}$
- (2) Measuring frequency range from 1000MHz to 6000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission •
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand



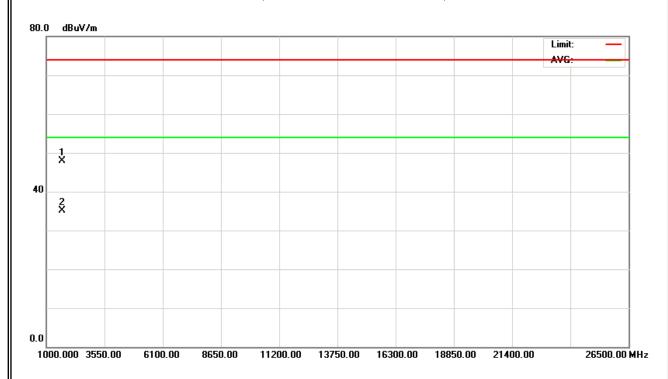
Report No.: NEI-FICP-1-1203C041



IFUI:	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	RX Mode 2402MHz - 1Mbps		

Freq.	Ant.Pol.	. Reading		Ant./CF	Act.		Limit		Margin		
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
1647.00	Н	52.39	39.42	-4.39	48.00	35.03	74.00	54.00	-26.00	-18.97	X/H

- (1) All readings are Peak unless otherwise stated QP in column of  ${}^{\mathbb{F}}$ Note  ${}_{\mathbb{J}}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  ${}^{\circ}$
- (2) Measuring frequency range from 1000MHz to 6000MHz or the 10th harmonic of highest fundamental frequency of F' denotes fundamental frequency; "H' denotes spurious frequency. "E' denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission  $\,^{\circ}$
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand

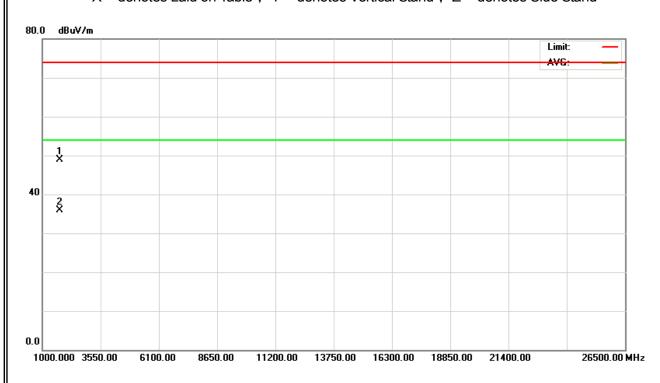


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EUT:	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	RX Mode 2441MHz - 1Mbps		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Margin		
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
1714.25	V	52.72	39.60	-3.79	48.93	35.81	74.00	54.00	-25.07	-18.19	X/H

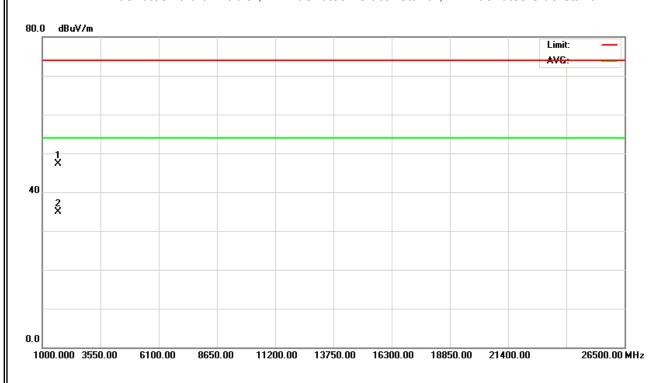
- (1) All readings are Peak unless otherwise stated QP in column of  $\lceil$ Note $_{
  m l}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $_{
  m o}$
- (2) Measuring frequency range from 1000MHz to 6000MHz or the 10th harmonic of highest fundamental frequency of F' denotes fundamental frequency; "H' denotes spurious frequency. "E' denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission  $\circ$
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand



EUT:	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	RX Mode 2441MHz - 1Mbps		

Freq.	Ant.Pol.	. Reading		Ant./CF	Act.		Limit		Margin		
		Peak	ΑV		Peak	AV	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
1647.00	Н	51.61	39.34	-4.39	47.22	34.95	74.00	54.00	-26.78	-19.05	X/H

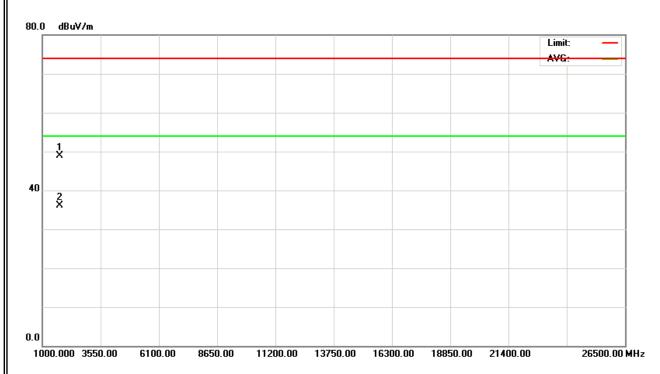
- (1) All readings are Peak unless otherwise stated QP in column of  $\lceil$ Note $_{
  m J}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $_{
  m O}$
- (2) Measuring frequency range from 1000MHz to 6000MHz or the 10th harmonic of highest fundamental frequency of F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission  $\circ$
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand



EUT:	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	RX Mode 2480MHz - 1Mbps		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Margin		Note
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
1714.25	V	52.79	39.82	-3.79	49.00	36.03	74.00	54.00	-25.00	-17.97	X/H

- (1) All readings are Peak unless otherwise stated QP in column of  $\lceil$ Note $_{
  m J}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $_{
  m O}$
- (2) Measuring frequency range from 1000MHz to 6000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission •
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand



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HUI.	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	RX Mode 2480MHz - 1Mbps		

Freq.	Ant.Pol.	. Reading		Ant./CF	Act.		Limit		Margin		
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	Note
(MHz)	HΛ	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
1647.00	Н	52.35	39.94	-4.39	47.96	35.55	74.00	54.00	-26.04	-18.45	X/H

- (1) All readings are Peak unless otherwise stated QP in column of  $\lceil$ Note $_{
  m J}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $_{
  m O}$
- (2) Measuring frequency range from 1000MHz to 6000MHz or the 10th harmonic of highest fundamental frequency of F denotes fundamental frequency; "H" denotes spurious frequency. (E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission  $\circ$
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand

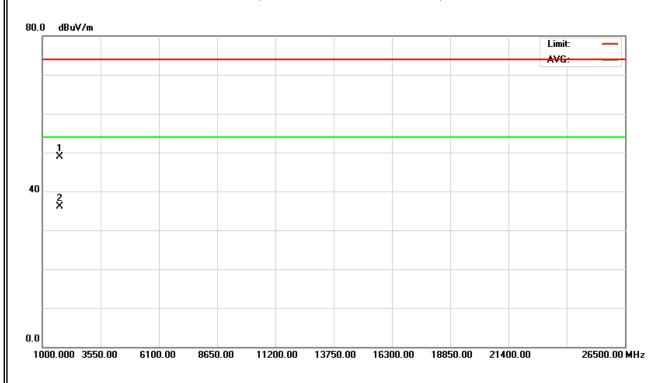


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EUT:	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	RX Mode 2402MHz - 3Mbps		

Freq.	Ant.Pol.	. Reading An		Ant./CF	Act.		Limit		Margin		
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
1745.30	V	52.45	39.69	-3.50	48.95	36.19	74.00	54.00	-25.05	-17.81	X/H

- (1) All readings are Peak unless otherwise stated QP in column of  ${}^{\mathbb{F}}$ Note ${}_{\mathbb{J}}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  ${}_{\circ}$
- (2) Measuring frequency range from 1000MHz to 6000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
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- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand



Report No.: NEI-FICP-1-1203C041

EUT:	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	RX Mode 2402MHz - 3Mbps		

Freq.	Ant.Pol.	Rea	ding	Ant./CF	Act.		Limit		Margin		
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	Note
(MHz)	HΛ	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
1654.37	Н	52.48	39.75	-4.33	48.15	35.42	74.00	54.00	-25.85	-18.58	X/H

- (1) All readings are Peak unless otherwise stated QP in column of  $\lceil$ Note $_{
  m J}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $_{
  m O}$
- (2) Measuring frequency range from 1000MHz to 6000MHz or the 10th harmonic of highest fundamental frequency of F denotes fundamental frequency; "H" denotes spurious frequency. (E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
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- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand

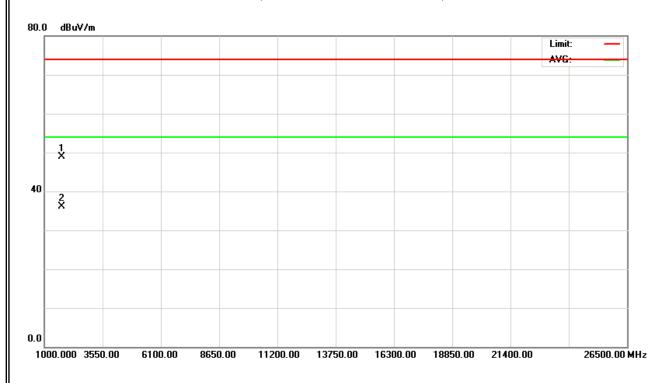


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EUT:	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	RX Mode 2441MHz - 3Mbps		

Freq.	Ant.Pol.	. Reading Ar		Ant./CF	Act.		Limit		Margin		
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
1745.30	V	52.40	39.68	-3.50	48.90	36.18	74.00	54.00	-25.10	-17.82	X/H

- (1) All readings are Peak unless otherwise stated QP in column of  ${}^{\mathbb{F}}$ Note ${}_{\mathbb{J}}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  ${}_{\circ}$
- (2) Measuring frequency range from 1000MHz to 6000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission •
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand



EUT:	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	RX Mode 2441MHz - 3Mbps		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Margin		
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
1654.37	Н	51.92	39.80	-4.33	47.59	35.47	74.00	54.00	-26.41	-18.53	X/H

- (1) All readings are Peak unless otherwise stated QP in column of  $\lceil$ Note $_{
  m J}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $_{
  m O}$
- (2) Measuring frequency range from 1000MHz to 6000MHz or the 10th harmonic of highest fundamental frequency of F denotes fundamental frequency; "H" denotes spurious frequency. (E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission  $\circ$
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand



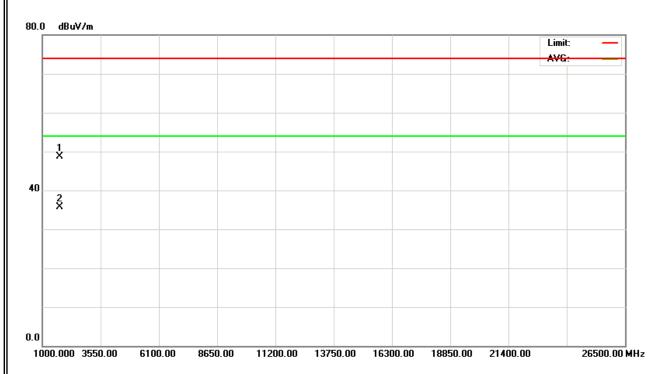
Report No.: NEI-FICP-1-1203C041

IFUI '	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	RX Mode 2480MHz - 3Mbps		

Freq.	Ant.Pol.	Rea	ding	Ant./CF	Ad	ct.	Lir	nit	Mai	rgin	
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
1745.30	V	52.28	39.21	-3.50	48.78	35.71	74.00	54.00	-25.22	-18.29	X/H

#### Remark:

- (1) All readings are Peak unless otherwise stated QP in column of  $\lceil$ Note $_{
  m J}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $_{
  m O}$
- (2) Measuring frequency range from 1000MHz to 6000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission •
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand

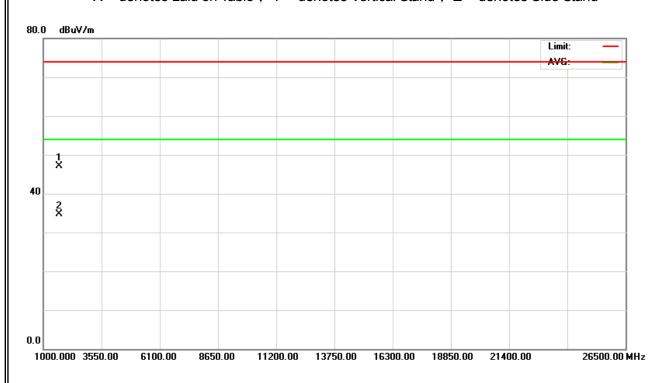


EUT:	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	RX Mode 2480MHz - 3Mbps		

Freq.	Ant.Pol.	Rea	ding	Ant./CF	A	ct.	Liı	mit	Mai	rgin	
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
1654.37	Н	51.40	38.95	-4.33	47.07	34.62	74.00	54.00	-26.93	-19.38	X/H

### Remark:

- (1) All readings are Peak unless otherwise stated QP in column of  $\lceil$ Note $_{
  m J}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $_{
  m O}$
- (2) Measuring frequency range from 1000MHz to 6000MHz or the 10th harmonic of highest fundamental frequency of F denotes fundamental frequency; "H" denotes spurious frequency. (E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission  $\circ$
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand



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## 5. NUMBER OF HOPPING CHANNEL

## 5.1 APPLIED PROCEDURES / LIMIT

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

### **5.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING**

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov.25.2012

Remark: "N/A" denotes No Model Name, Serial No. or No Calibration specified.

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> Operating Frequency Range
RB	100 kHz
VB	100 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

### **5.1.2 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= 100KHz, VBW=100KHz, Sweep time = Auto.

# **5.1.3 DEVIATION FROM STANDARD**

No deviation.

## 5.1.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

### **5.1.5 EUT OPERATION CONDITIONS**

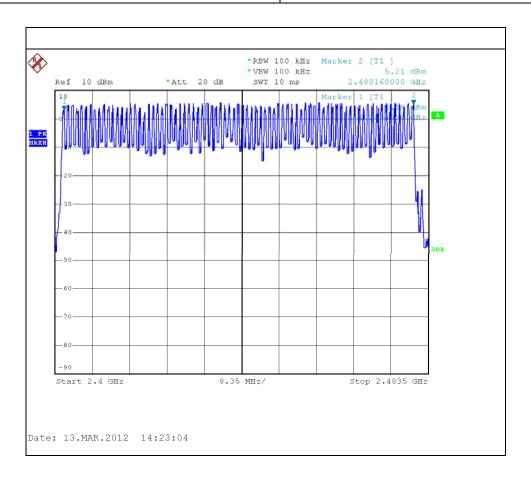
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

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# **5.1.6 TEST RESULTS**

EUT:	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	Hopping Mode -1Mbps		

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

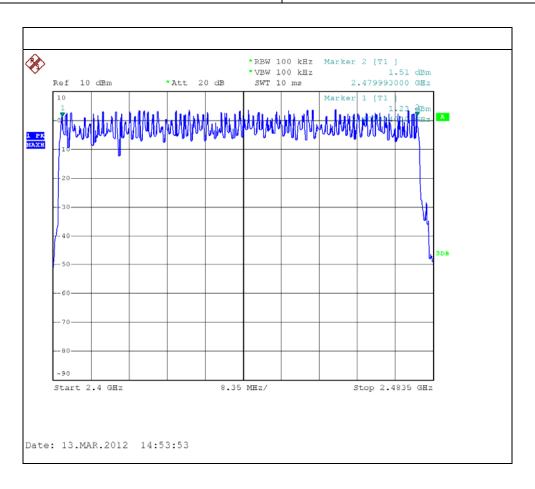


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IFUI.	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	Hopping Mode -3Mbps		

Number of Hopping Channel	79



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### 6. AVERAGE TIME OF OCCUPANCY

#### 6.1 APPLIED PROCEDURES / LIMIT

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

### **6.1.1 MEASUREMENT INSTRUMENTS LIST**

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov.25.2012

Remark: "N/A" denotes No Model Name, Serial No. or No Calibration specified.

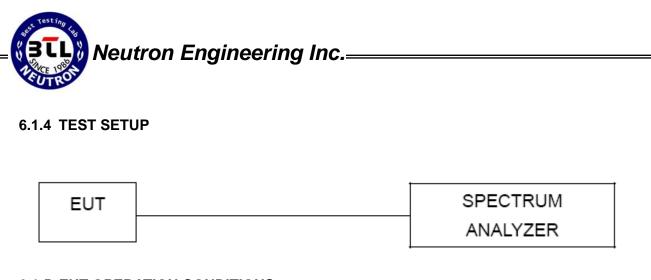
#### 6.1.2 TEST PROCEDURE

- 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.
- a. Set the EUT for DH5, DH3 and DH1 packet transmitting.
- h. Measure the maximum time duration of one single pulse.
- i. DH5 Packet permit maximum 1600/79/6 = 3.37 hops per second in each channel (5 time slots TX, 1 time slot RX). So, the dwell time is the time duration of the pulse times  $3.37 \times 31.6 = 106.6$  within 31.6 seconds.
- j. DH3 Packet permit maximum 1600 / 79 / 4 = 5.06 hops per second in each channel (3 time slots TX, 1 time slot RX). So, the dwell time is the time duration of the pulse times  $5.06 \times 31.6 = 160$  within 31.6 seconds.
- k. DH1 Packet permit maximum 1600 / 79 /2 = 10.12 hops per second in each channel (1 time slot TX, 1 time slot RX). So, the dwell time is the time duration of the pulse times 10.12 x 31.6 = 320 within 31.6 seconds.

#### 6.1.3 DEVIATION FROM STANDARD

No deviation.

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# **6.1.5 EUT OPERATION CONDITIONS**

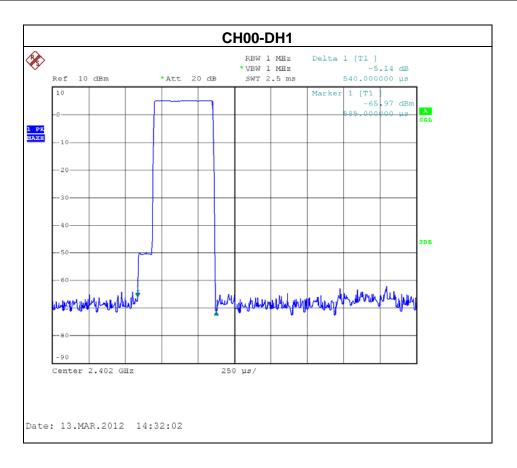
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

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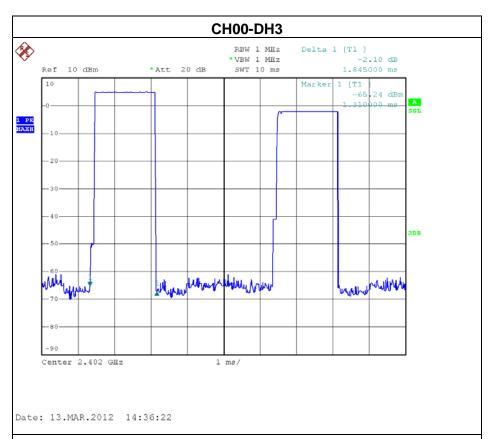
# **6.1.6 TEST RESULTS**

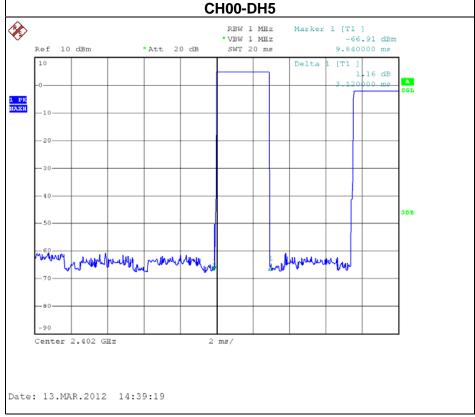
IEUI.	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	CH00-DH1/DH3/DH5 -1Mbps		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2402 MHz	3.1200	0.3328	0.4000
DH3	2402 MHz	1.8450	0.2952	0.4000
DH1	2402 MHz	0.5400	0.1728	0.4000



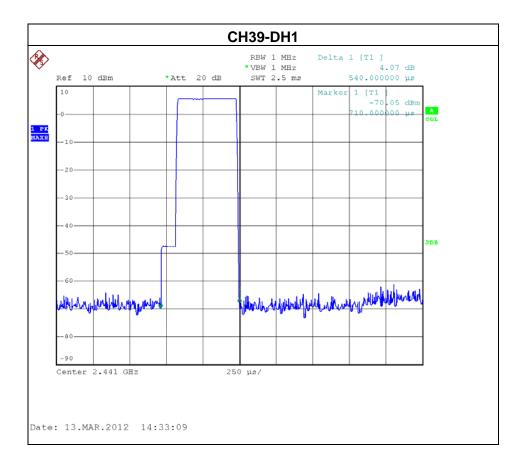
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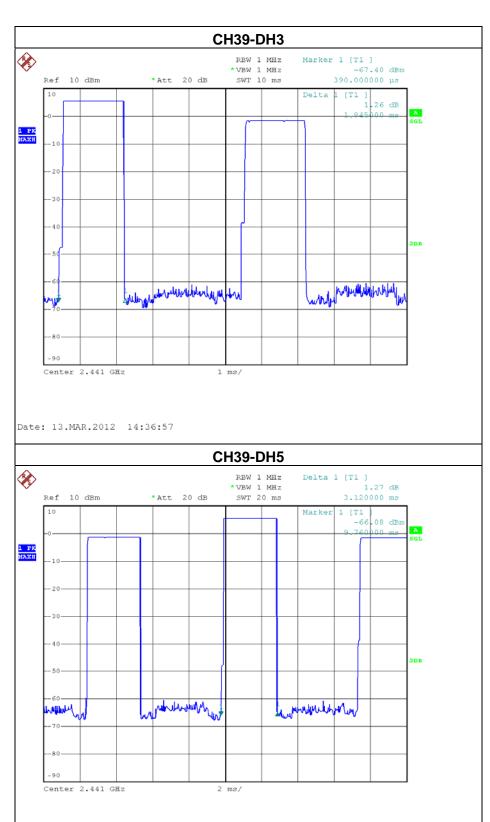


IEUI .	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	CH39 -DH1/DH3/DH5 -1Mbps		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2441 MHz	3.1200	0.3328	0.4000
DH3	2441 MHz	1.8450	0.2952	0.4000
DH1	2441 MHz	0.5400	0.1728	0.4000



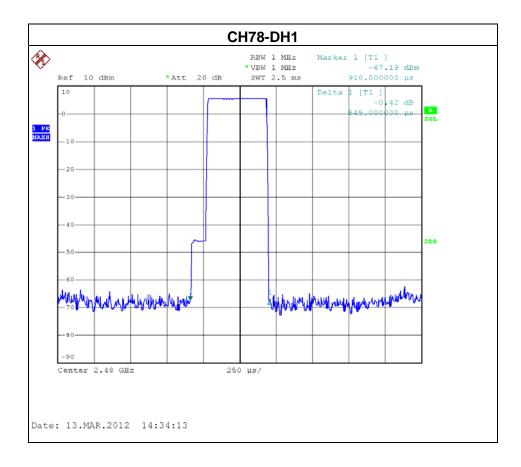
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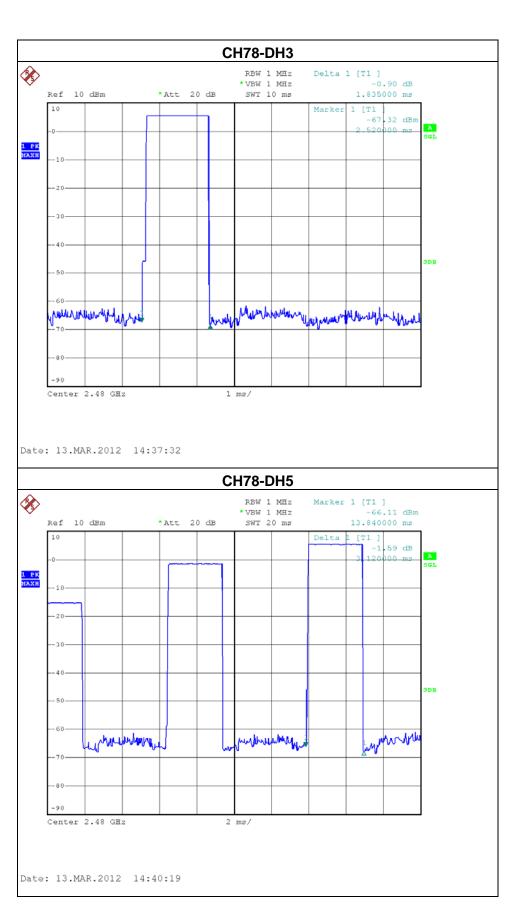
Date: 13.MAR.2012 14:39:52

EUT:	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	CH78 -DH1/DH3/DH5-1Mbps		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2480 MHz	3.1200	0.3328	0.4000
DH3	2480 MHz	1.8350	0.2936	0.4000
DH1	2480 MHz	0.5450	0.1744	0.4000



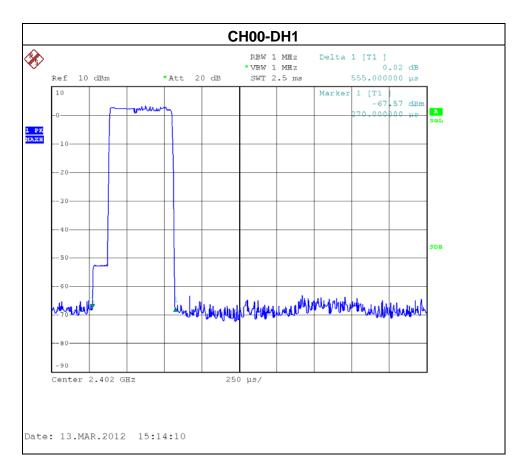
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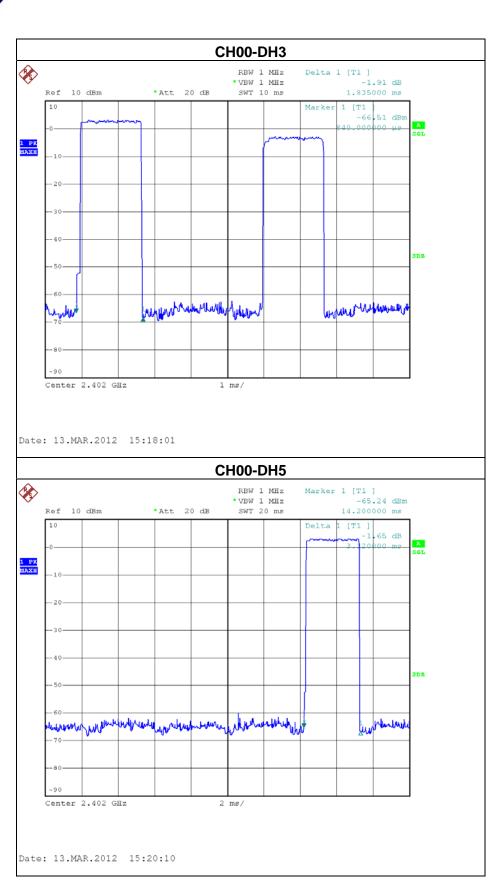
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EUT:	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	CH00-DH1/DH3/DH5 -3Mbps		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2402 MHz	3.1200	0.3328	0.4000
DH3	2402 MHz	1.8350	0.2936	0.4000
DH1	2402 MHz	0.5550	0.1776	0.4000



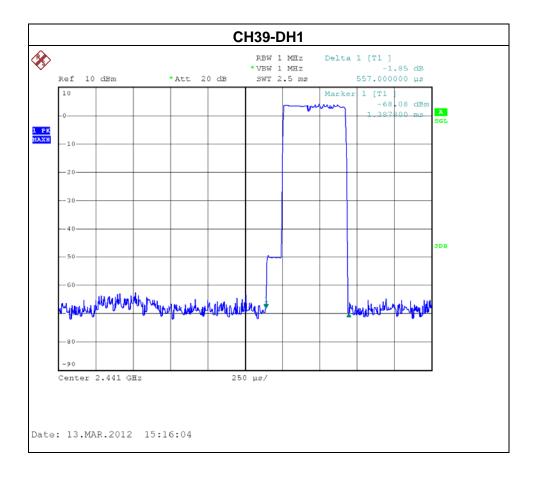
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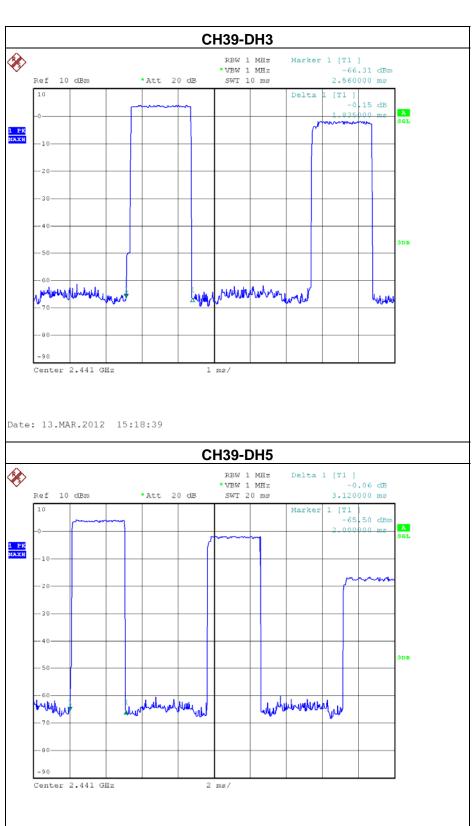
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IEUI.	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	CH39 -DH1/DH3/DH5 -3Mbps		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2441 MHz	3.1200	0.3328	0.4000
DH3	2441 MHz	1.8350	0.2936	0.4000
DH1	2441 MHz	0.5570	0.1782	0.4000



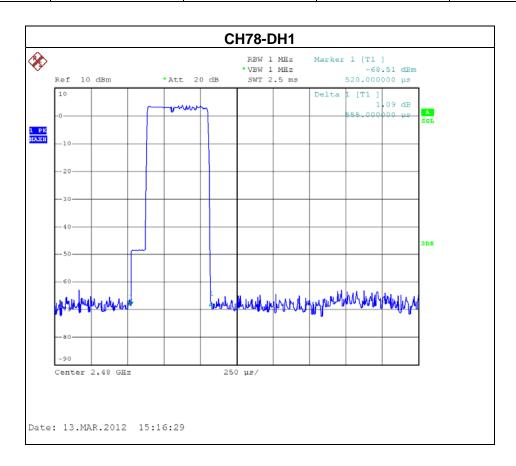
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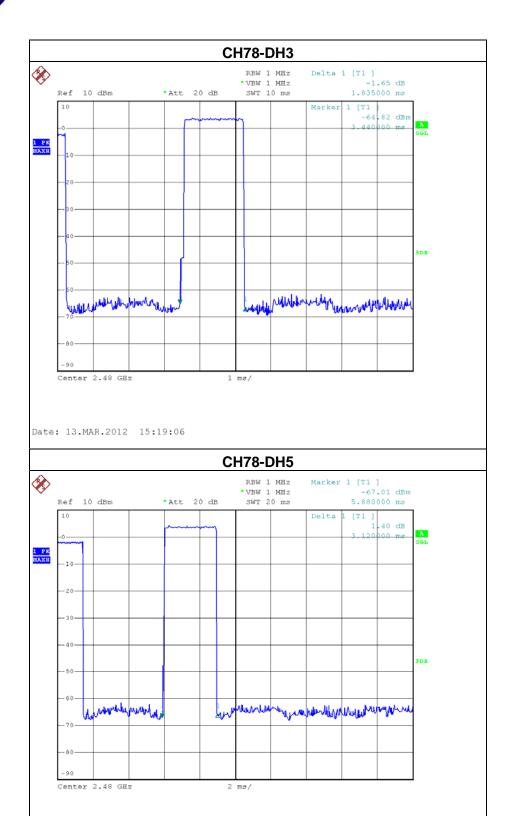
Date: 13.MAR.2012 15:21:03

IEUI.	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	CH78 -DH1/DH3/DH5-3Mbps		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2480 MHz	3.1200	0.3328	0.4000
DH3	2480 MHz	1.8350	0.2936	0.4000
DH1	2480 MHz	0.5550	0.1776	0.4000



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Date: 13.MAR.2012 15:22:17

# 7. HOPPING CHANNEL SEPARATION MEASUREMENT

### 7.1 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.

### 7.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

Iter	n Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov.25.2012

Remark: "N/A" denotes No Model Name, Serial No. or No Calibration specified.

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

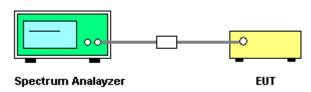
## 7.1.2 TEST PROCEDURE

- a. The EUT must have its hopping function enabled
- b. Span = wide enough to capture the peaks of two adjacent channels Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span Video (or Average) Bandwidth (VBW) ≥ RBW Sweep = auto Detector function = peak Trace = max hold

### 7.1.3 DEVIATION FROM STANDARD

No deviation.

### 7.1.4 TEST SETUP



### 7.1.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in hopping mode.

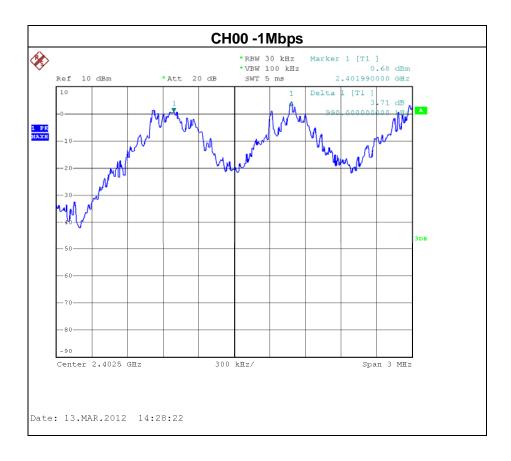
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# 7.1.6 TEST RESULTS

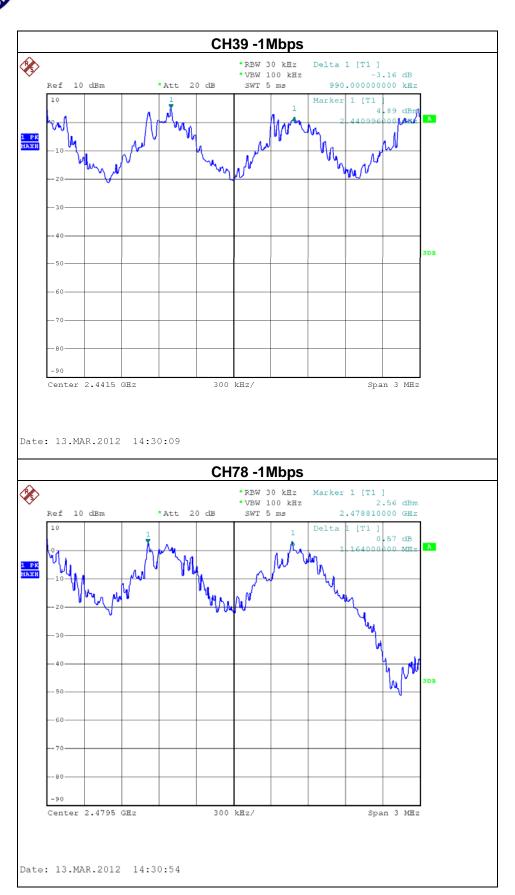
IEUI.	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	CH00 / CH39 /CH78-1Mbps		

Frequency	Ch. Separation (kHz)	20dB Bandwidth (kHz)	Result
2402 MHz	990.00	860.00	Complies
2441 MHz	990.00	870.00	Complies
2480 MHz	1164.00	830.00	Complies

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



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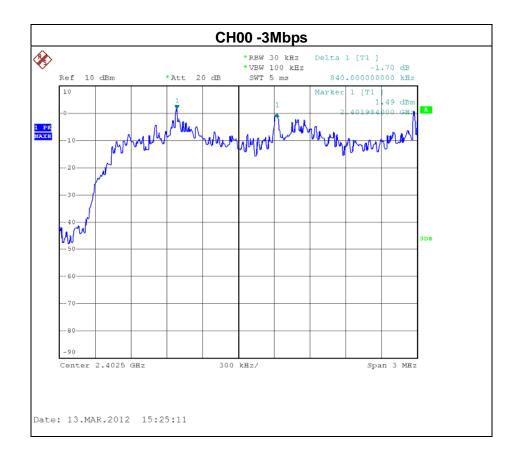


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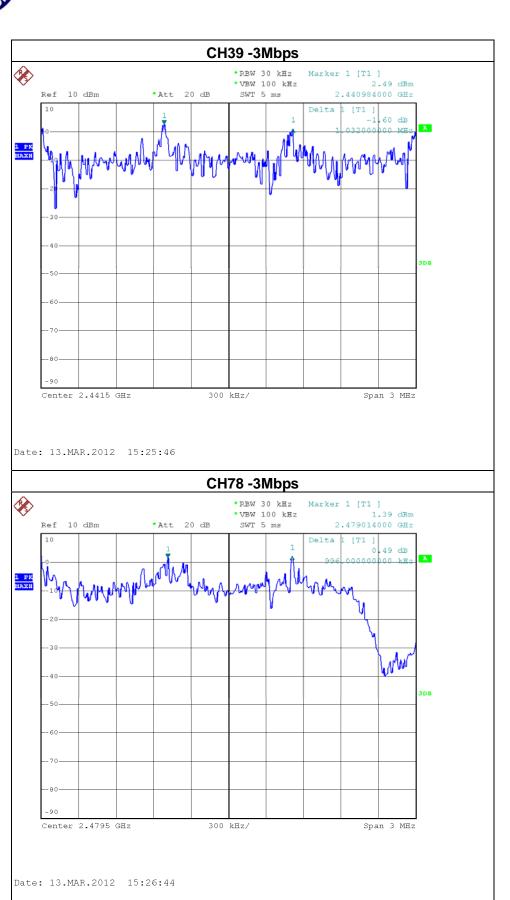
EUT:	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	CH00 / CH39 /CH78-3Mbps		

Frequency	Ch. Separation (KHz)	20dB Bandwidth (KHz)	Result
2402 MHz	840.00	1210.00	Complies
2441 MHz	1032.00	1200.00	Complies
2480 MHz	996.00	1210.00	Complies

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



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## 8. BANDWIDTH TEST

## 8.1 APPLIED PROCEDURES / LIMIT

	FCC Part15 (15.247) , Subpart C					
Section	Test Item	Limit	Frequency Range (MHz)	Result		
15.247	Bandwidth	<= 1 MHz	2400-2483.5	PASS		
(a)(2)	Danuwiutii	(20dB bandwidth)	2400-2403.3	FASS		

### 8.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov.25.2012

Remark: "N/A" denotes No Model Name, Serial No. or No Calibration specified.

Spectrum Parameter	Setting	
Attenuation	Auto	
Span Frequency	> Measurement Bandwidth or Channel Separation	
RB	30 kHz (20dB Bandwidth) / 30 kHz (Channel Separation)	
VB	100 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)	
Detector	Peak	
Trace	Max Hold	
Sweep Time	Auto	

### **8.1.2 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.

### 8.1.3 DEVIATION FROM STANDARD

No deviation.

## 8.1.4 TEST SETUP



## **8.1.5 EUT OPERATION CONDITIONS**

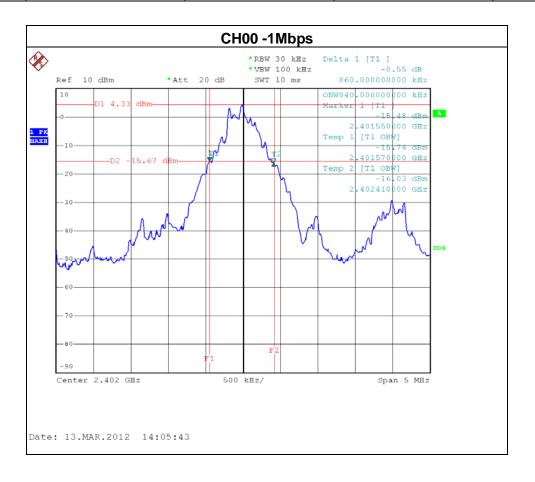
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

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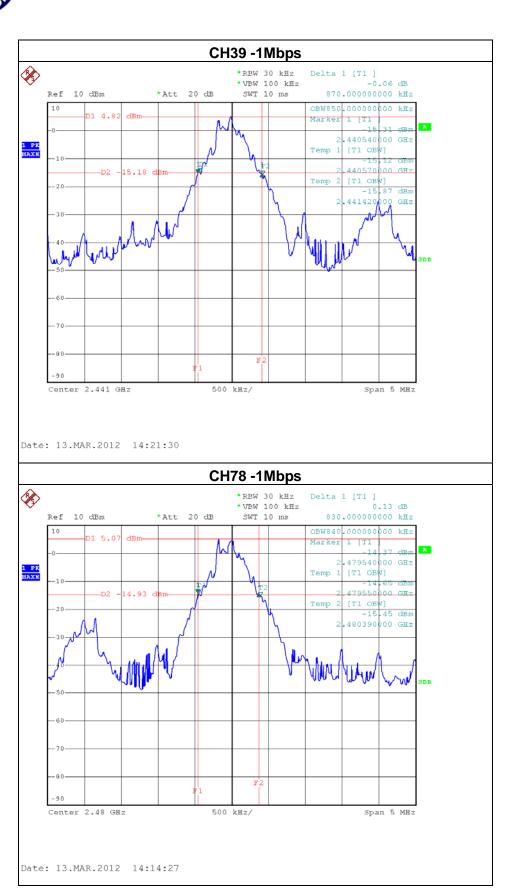
# 8.1.6 TEST RESULTS

IEUI.	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	CH00 / CH39 /CH78-1Mbps		

Frequency	20dB Bandwidth (KHz)	99% Occupied Bandwidth (KHz)	Channel Separation (MHz)	Result
2402 MHz	860.00	840.00	<= 1MHz	PASS
2441 MHz	870.00	850.00	<= 1MHz	PASS
2480 MHz	830.00	840.00	<= 1MHz	PASS

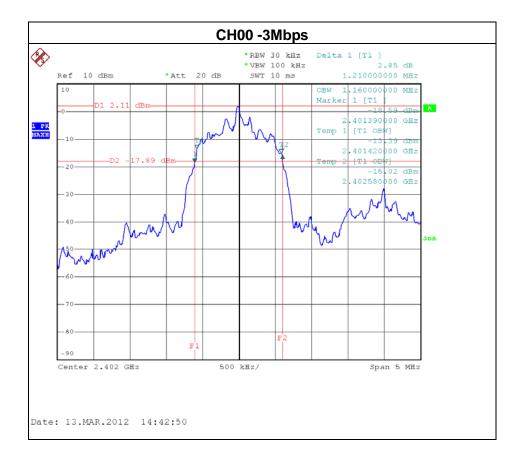


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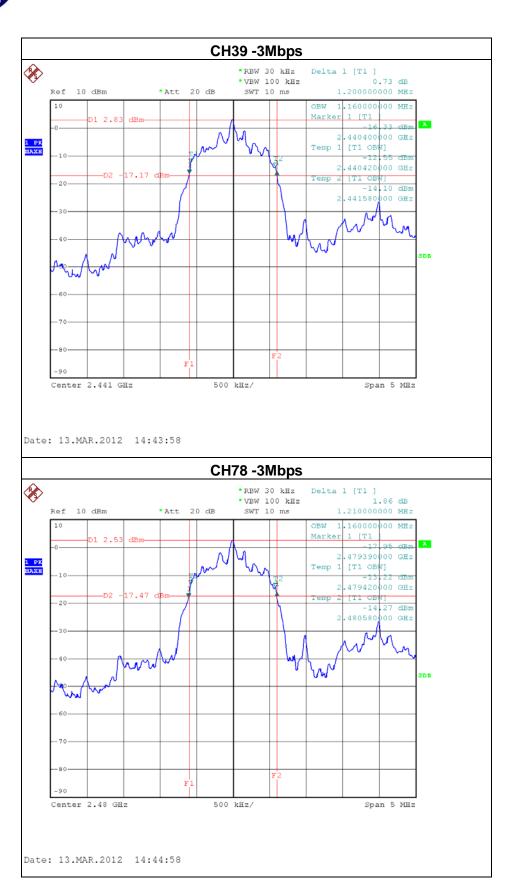


IFUI:	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	CH00 / CH39 /CH78-3Mbps		

Frequency	20dB Bandwidth (KHz)	99% Occupied Bandwidth (KHz)	Channel Separation (MHz)	Result
2402 MHz	1210.00	1160.00	<= 1MHz	PASS
2441 MHz	1200.00	1160.00	<= 1MHz	PASS
2480 MHz	1210.00	1160.00	<= 1MHz	PASS



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# 9. PEAK OUTPUT POWER TEST

#### 9.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247), Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (b)(1)	Peak Output Power	0.125 watt or 21dBm	2400-2483.5	PASS

# 9.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov.25.2012

Remark: "N/A" denotes No Model Name, Serial No. or No Calibration specified.

### 9.1.2 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= 3MHz, VBW= 3MHz, Sweep time = Auto.

### 9.1.3 DEVIATION FROM STANDARD

No deviation.

## 9.1.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

## 9.1.5 EUT OPERATION CONDITIONS

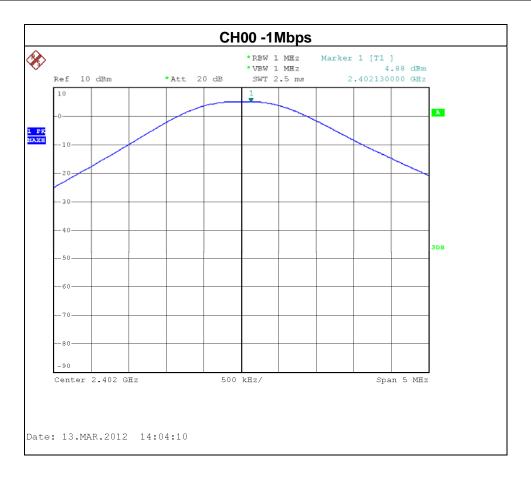
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

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# 9.1.6 TEST RESULTS

IEUI.	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	CH00/ CH39 /CH78 -1Mbps		

Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH00	2402	4.88	21	0.125
CH39	2441	5.53	21	0.125
CH78	2480	5.41	21	0.125



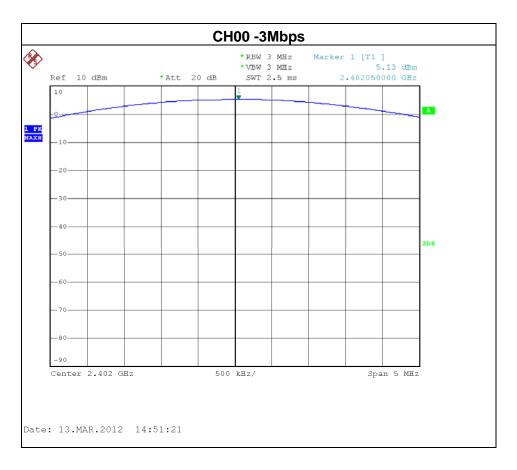
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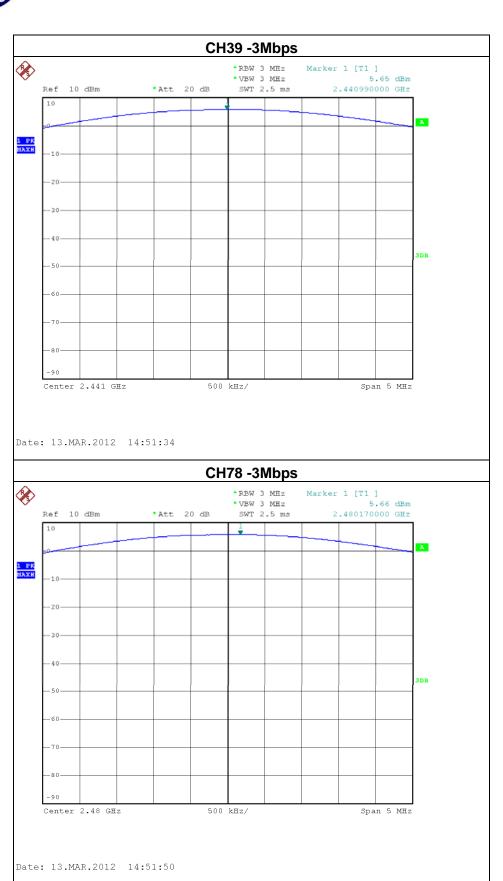


IEUI.	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	CH00/ CH39 /CH78 -3Mbps		

Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH00	2402	5.13	21	0.125
CH39	2441	5.65	21	0.125
CH78	2480	5.66	21	0.125



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# 10. ANTENNA CONDUCTED SPURIOUS EMISSION

### 10.1 APPLIED PROCEDURES / LIMIT

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 (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (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

#### 10.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov.25.2012

Remark: "N/A" denotes No Model Name, Serial No. or No Calibration specified.

### **10.1.2 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= 100KHz, VBW=100KHz, Sweep time = Auto.

### 10.1.3 DEVIATION FROM STANDARD

No deviation.

### **10.1.4 TEST SETUP**



# 10.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

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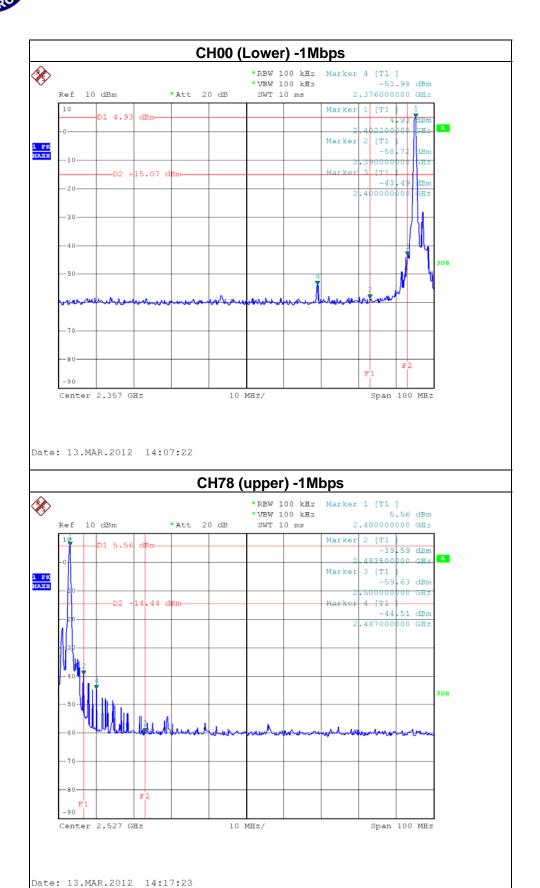
# **10.1.6 TEST RESULTS**

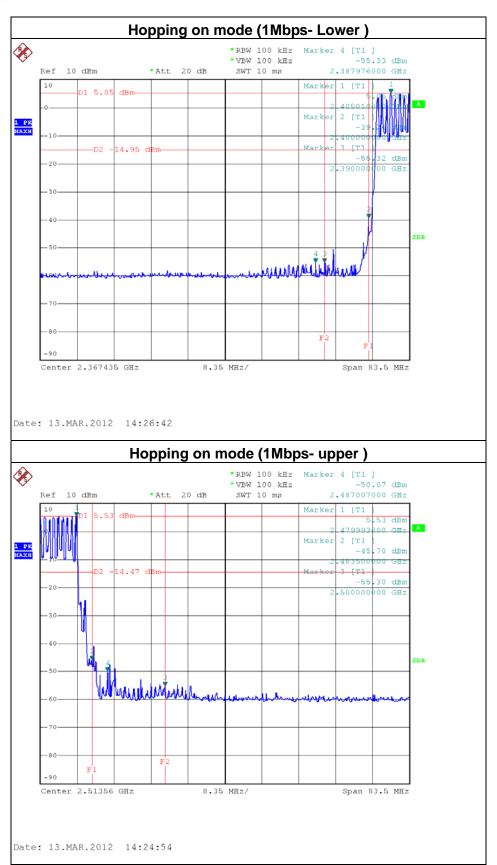
EUI.	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	CH00 / CH39/ CH78-1Mbps & Hopping on mode (1Mbps)		

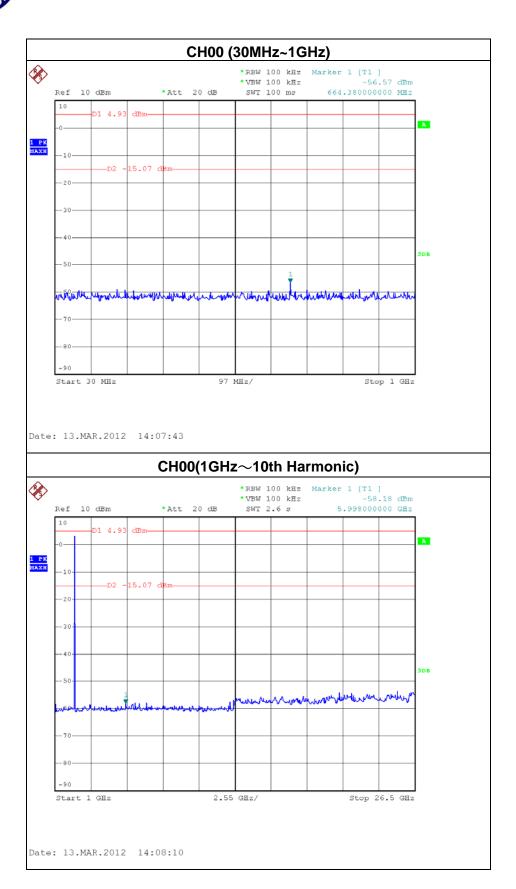
•	cy power in any 100kHz he frequency band	The max. radio frequency power in any 100 kHz bandwidth within the frequency band.			
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)		
2400.00	-43.49	2483.50	-39.59		
Result					

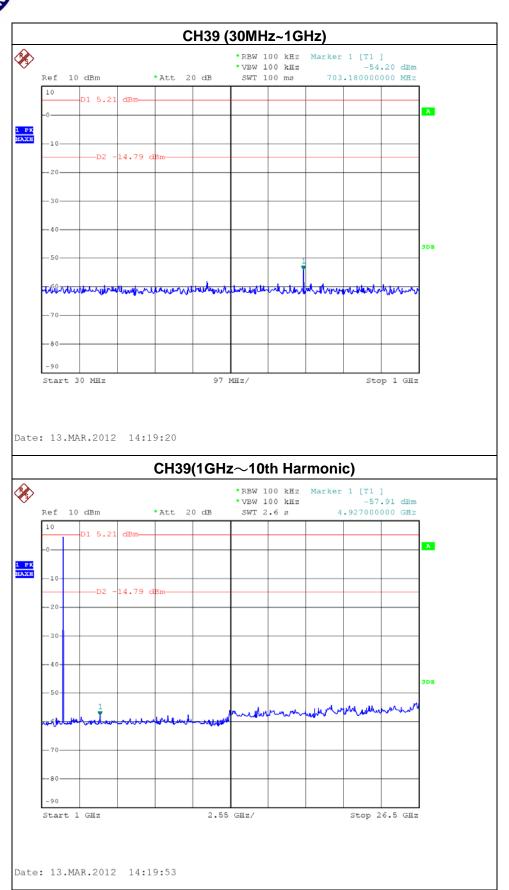
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.

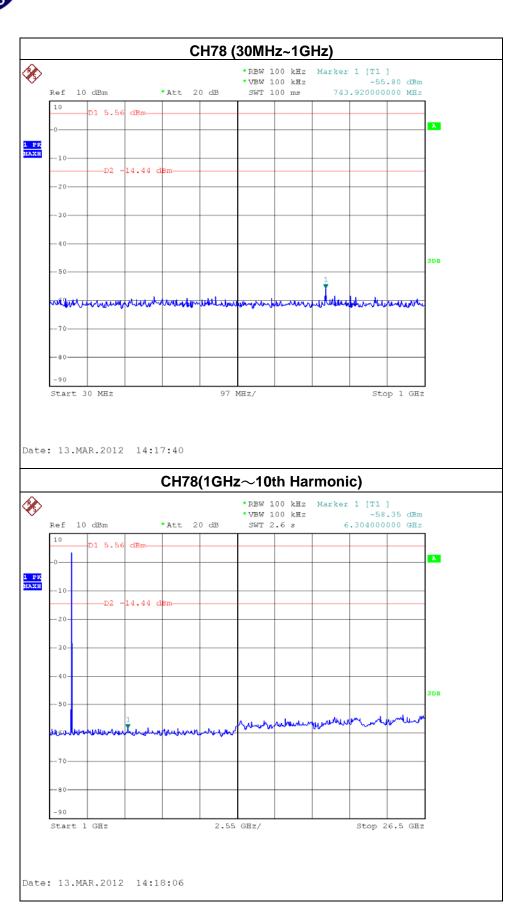
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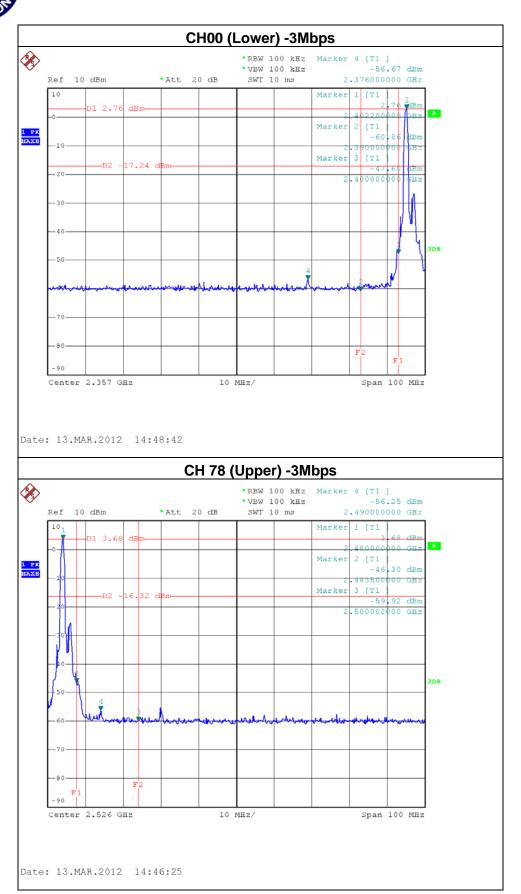


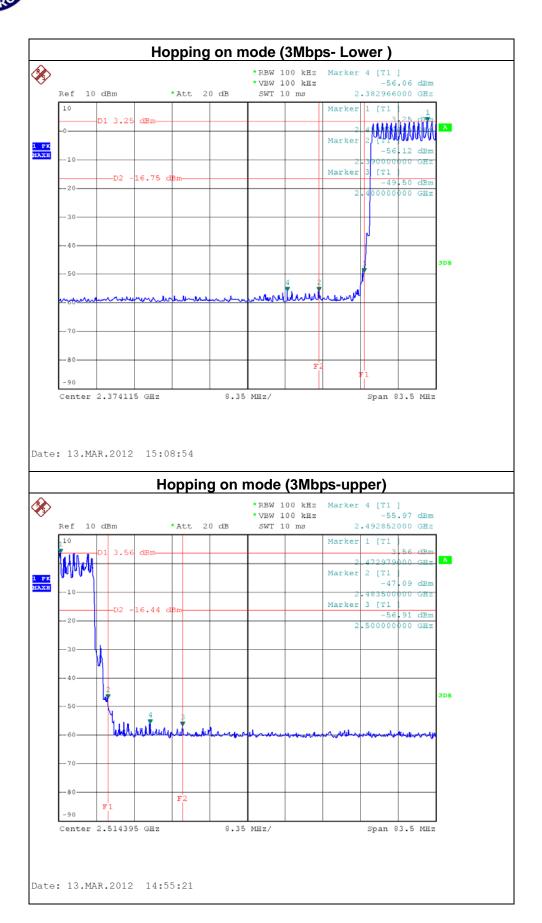
IFUI:	Portable Bluetooth Sound System	Model Name :	RKS100
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Voltage :	AC 120V/60Hz.
Test Mode :	CH00 / CH39/ CH78 -3Mbps & Hopping on mode (3Mbps)		

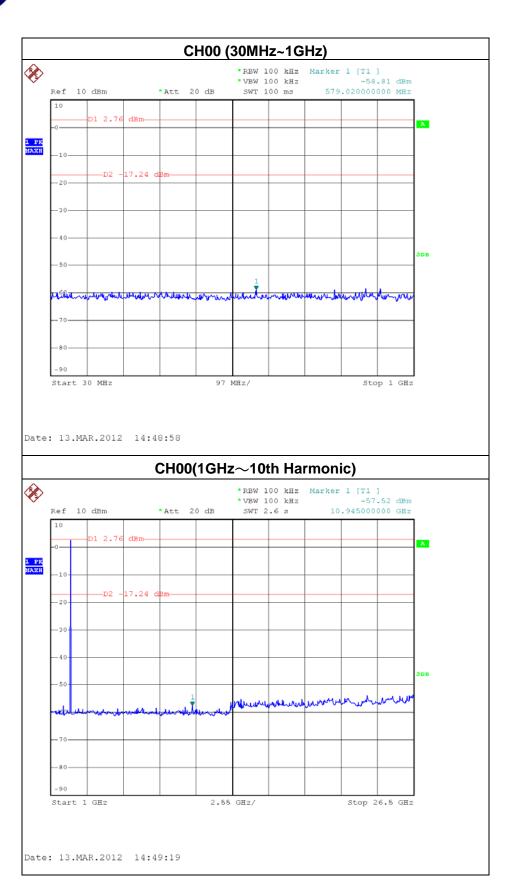
•	cy power in any 100kHz he frequency band	The max. radio frequency power in any 100 kHz bandwidth within the frequency band.			
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)		
2400.00	-47.60	2483.50	-46.30		
Result					

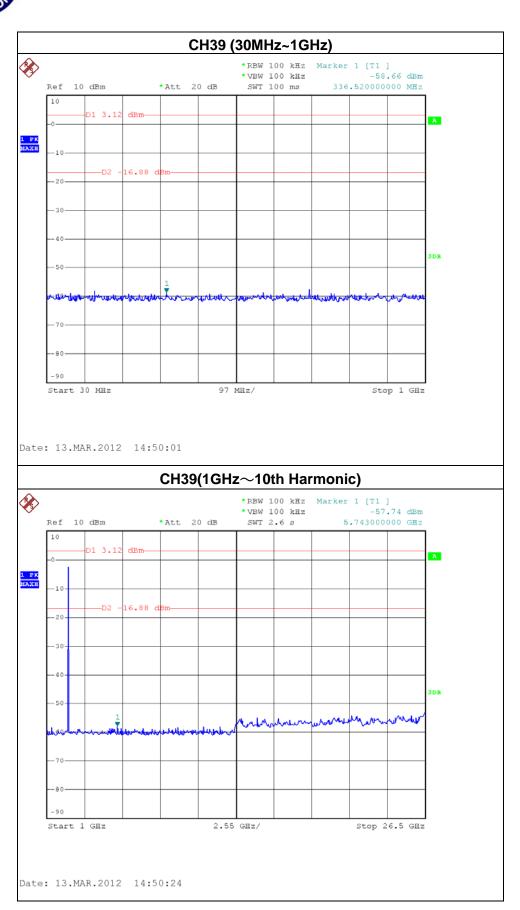
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.

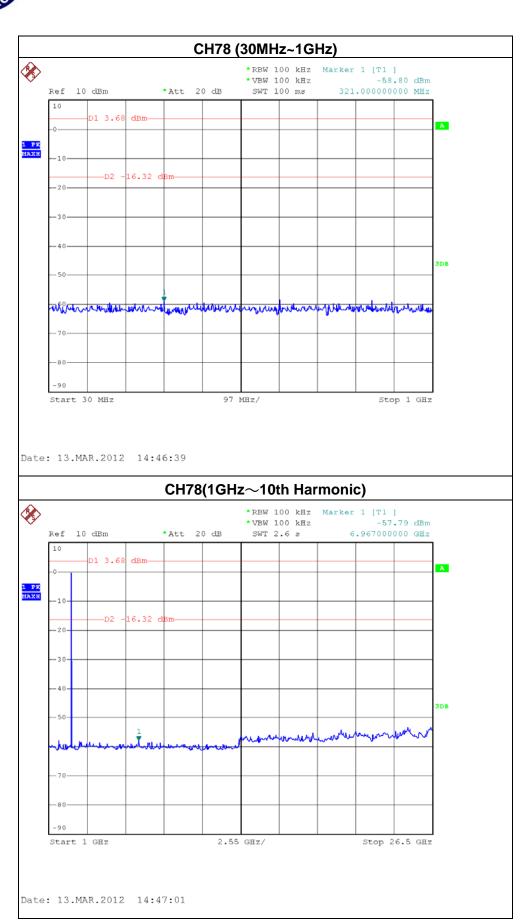
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#### 11. EUT TEST PHOTO

#### **Conducted Measurement Photos**

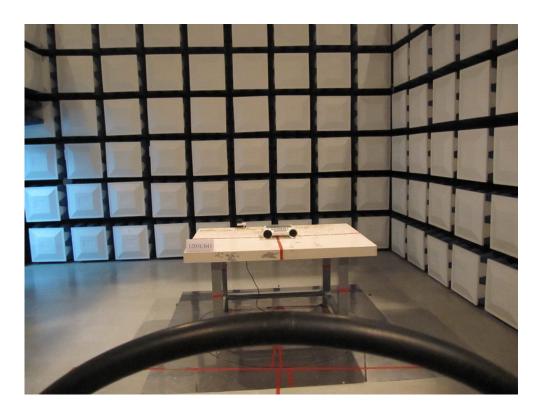


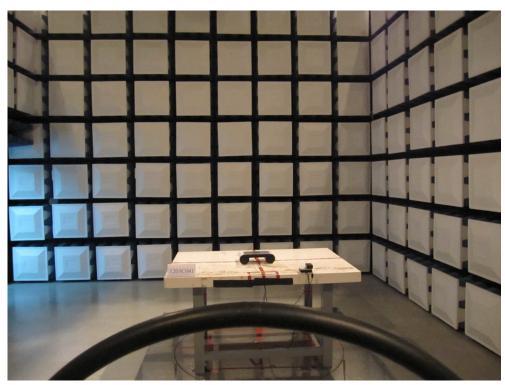


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#### Radiated Measurement Photos 9K~30MHz



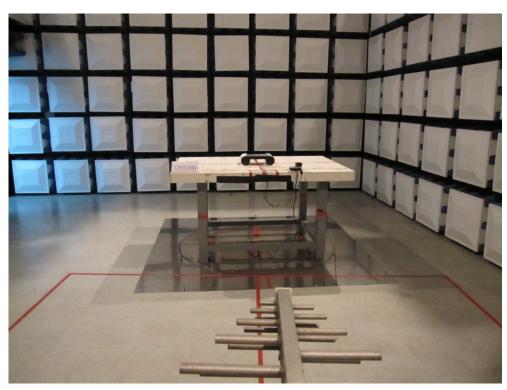


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#### Radiated Measurement Photos 30M~1000MHz





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#### Radiated Measurement Photos Above 1000MHz





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