

Prüfbericht-Nr.: <i>Test Report No.:</i>	50082008 001	Auftrags-Nr.: <i>Order No.:</i>	164087995	Seite 1 von 96 <i>Page 1 of 96</i>
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	16.03.2017	
Auftraggeber: <i>Client:</i>	SHENZHEN FENDA TECHNOLOGY CO., LTD. Fenda Hi-Tech Park, Zhoushi Road, Shiyao Town, Baoan District, Shenzhen City, Guangdong, China			
Prüfgegenstand: <i>Test item:</i>	Portable Bluetooth Stereo Speaker			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	NS-CSPBTWP1			
Auftrags-Inhalt: <i>Order content:</i>	FCC/IC Certification			
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 15: Subpart C Section 15.209 CFR47 FCC Part 15: Subpart B Section 15.109 RSS-247 Issue 1 May 2015 ICES-003 Issue 6 January 2016			
	CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart B Section 15.107 FCC KDB Publication 447498 D01 v06 RSS-Gen Issue 4 November 2014 RSS-102 Issue 5 March 2015			
Wareneingangsdatum: <i>Date of receipt:</i>	16.03.2017			
Prüfmuster-Nr.: <i>Test sample No.:</i>	A000513350-001, A000513350-002, A000513350-003, A000513350-004			
Prüfzeitraum: <i>Testing period:</i>	01.04.2017 - 01.06.2017			
Ort der Prüfung: <i>Place of testing:</i>	Shenzhen EMTEK Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von / tested by:		kontrolliert von / reviewed by:		
03-06-2017 Andy Yan/Project Manager		03-06-2017 Owen Tian/Technical Certifier		
Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>
Sonstiges / Other:		FCC ID: HBONSCSPBTWP1 IC: 10550A-NSCSPBTWP1		
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend		4 = ausreichend 5 = mangelhaft		
P(ass) = entspricht o.g. Prüfgrundlage(n)		F(all) = entspricht nicht o.g. Prüfgrundlage(n)		
Legend: 1 = very good 2 = good 3 = satisfactory		4 = sufficient 5 = poor		
P(ass) = passed a.m. test specification(s)		F(all) = failed a.m. test specification(s)		
		N/A = not applicable N/T = not tested		
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT*RESULT: Pass***5.1.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER***RESULT: Pass***5.1.3 20dB BANDWIDTH AND 99% BANDWIDTH***RESULT: Pass***5.1.4 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100KHz BANDWIDTH***RESULT: Pass***5.1.5 SPURIOUS EMISSION***RESULT: Pass***5.1.6 FREQUENCY SEPARATION***RESULT: Pass***5.1.7 NUMBER OF HOPPING FREQUENCY***RESULT: Pass***5.1.8 TIME OF OCCUPANCY***RESULT: Pass***5.1.9 CONDUCTED EMISSIONS***RESULT: Pass***5.1.10 RADIATED EMISSION***RESULT: Pass***6.1.1 ELECTROMAGNETIC FIELDS***RESULT: Pass*

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1. General Remarks

1.1 Complementary Materials

None.

2. Test Sites

2.1 Test Facilities

Shenzhen EMTEK Co., Ltd.

(FCC Registration No.: 709623)

(Test site Industry Canada No.: 4480A-2)

Bldg 69, Majialong Industry Zone, Nanshan District,
Shenzhen, Guangdong, P.R. China

The tests at the test site have been conducted under the supervision of a TÜV engineer.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
Transmitter spurious emissions				
EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.26	2018-05-16
Loop Antenna	Schwarzbeck	FMZB 1519	1519-012	2018-05-16
Cable	H+B	3M SF104-26.5	295838/4	2018-05-28
Cable	H+B	6M SF104-26.5	295840/4	2018-05-28
Pre-Amplifier	HP	8447F	2944A07999	2018-05-16
Bilog Antenna	Schwarzbeck	VULB9163	142	2018-05-28
Cable	Schwarzbeck	AK9513	ACRX1	2018-05-16
Cable	Rosenberger	N/A	FP2RX2	2018-05-16
Cable	Schwarzbeck	AK9513	CRPX1	2018-05-28
Cable	Schwarzbeck	AK9513	CRRX2	2018-05-28
Pre-Amplifier	A.H.	PAM-0126	1415261	2018-05-16
Horn Antenna	Schwarzbeck	BBHA 9120	707	2018-05-28
Pre-Amplifier	A.H.	PAM-0126	1415261	2018-05-16
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA91703 99	2018-05-16
EMI Test Receiver	Rohde & Schwarz	FSV40	132.1- 3008K39- 100967-AP	2018-05-16
Pre-Amplifier	Lunar EM	LNA26G40-40	J101313102 8001	2018-05-16
Horn Antenna	AHS/USA	SAS-573	184	2018-05-16
Cable	H+B	0.5M SF104- 26.5	289147/4	2018-05-16
Cable	H+B	3M SF104-26.5	295838/4	2018-05-16
Cable	H+B	6M SF104-26.5	295840/4	2018-05-16
Radio Spectrum Test				
EMI Test Receiver	Rohde & Schwarz	ESCI	101045	2017-05-16
Vector Signal Generater	Agilent	N5182B	My53050553	2017-05-28
Analog Signal Generator	Agilent	N5171B	My53050878	2017-05-28
Signal Analyzer	Agilent	N9010A	My53470879	2017-05-28
Power Meter	Agilent	PS-X10-100	N/A	2017-05-28
Temp. / Humidity Chamber	Kingson	THS-M1	242	2017-05-28
Conducted Emission				
Test Receiver	Rohde & Schwarz	ESCS30	828985/018	2017-05-16
L.I.S.N.	Schwarzbeck	NNLK8129	8129203	2017-05-16
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100006	2017-05-16
Voltage Probe	Rohde & Schwarz	TK9416	N/A	2017-05-16
I.S.N	Rohde & Schwarz	ENY22	1109.9508.02	2017-05-16
50Ω Coaxial Switch	Anritsu	MP59B	M20531	2017-05-16

2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

Table 2: Measurement Uncertainty

Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-5}$
Maximum Peak Output Power Test	$\pm 1.0\text{dB}$
Conducted Emissions Test	$\pm 2.0\text{dB}$
Radiated Emission Test	$\pm 2.0\text{dB}$
Power Density	$\pm 2.0\text{dB}$
Occupied Bandwidth Test	$\pm 1.0\text{dB}$
Band Edge Test	$\pm 3\text{dB}$
All emission, radiated	$\pm 3\text{dB}$
Antenna Port Emission	$\pm 3\text{dB}$
Temperature	$\pm 0.5^\circ\text{C}$
Humidity	$\pm 3\%$

2.6 Location of Original Data

The original copies of all test data taken during actual testing were retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

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2.7 Status of Facility Used for Testing

Shenzhen EMTEK Co., Ltd. test facility located at Bldg 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, P.R. China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3. General Product Information

3.1 Product Function and Intended Use

The EUT is portable Bluetooth stereo speaker used for audio entertainment in house or similar environment. It operates at 2.4GHz ISM frequency band. For details refer to the User Manual and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of Bluetooth

Technical Specification	Value
Kind of Equipment	Portable Bluetooth Stereo Speaker
Type Designation	NS-CSPBTWP1
FCC ID	HBONSCSPBTWP1
IC	10550A-NSCSPBTWP1
Operating Frequency band	2402 – 2480MHz
Channel separation	1MHz
Extreme Temperature Range	-10~+55°C
Operation Voltage	DC 18V, 3A (via AC/DC adapter)
Modulation	FHSS, GFSK, 8DPSK, $\pi/4$ DQPSK
Bluetooth version	3.0
Antenna Gain	3.1dBi

Table 4: RF channel and frequency of Bluetooth

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	2402.00	21	2423.00	42	2444.00	63	2465.00
1	2403.00	22	2424.00	43	2445.00	64	2466.00
2	2404.00	23	2425.00	44	2446.00	65	2467.00
3	2405.00	24	2426.00	45	2447.00	66	2468.00
4	2406.00	25	2427.00	46	2448.00	67	2469.00
5	2407.00	26	2428.00	47	2449.00	68	2470.00
6	2408.00	27	2429.00	48	2450.00	69	2471.00
7	2409.00	28	2430.00	49	2451.00	70	2472.00
8	2410.00	29	2431.00	50	2452.00	71	2473.00
9	2411.00	30	2432.00	51	2453.00	72	2474.00
10	2412.00	31	2433.00	52	2454.00	73	2475.00
11	2413.00	32	2434.00	53	2455.00	74	2476.00

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12	2414.00	33	2435.00	54	2456.00	75	2477.00
13	2415.00	34	2436.00	55	2457.00	76	2478.00
14	2416.00	35	2437.00	56	2458.00	77	2479.00
15	2417.00	36	2438.00	57	2459.00	78	2480.00
16	2418.00	37	2439.00	58	2460.00		
17	2419.00	38	2440.00	59	2461.00		
18	2420.00	39	2441.00	60	2462.00		
19	2421.00	40	2442.00	61	2463.00		
20	2422.00	41	2443.00	62	2464.00		

3.3 Independent Operation Modes

The basic operation modes are:

- A. On
 - 1. Bluetooth mode
 - a. Transmitting
 - i. Low Channel
 - ii. Middle Channel
 - iii. High Channel
 - b. Receiving
- B. AUX input
- C. Standby
- D. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- | | |
|--------------------|----------------------|
| - Bill of Material | - Circuit Diagram |
| - PCB Layout | - Instruction Manual |
| - Photo Document | - Rating Label |

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.4: 2014 & ANSI C63.10: 2013.

4.3 Special Accessories and Auxiliary Equipment

The EUT was tested together with the following accessories:

Description	Manufacturer	Part No.	Rating
AC/DC adapter	MASS POWER	NBS65A180300M2	Input: AC 100-240V, 50/60Hz, 1.5A; Output: DC 18V, 3A

4.4 Countermeasures to achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test

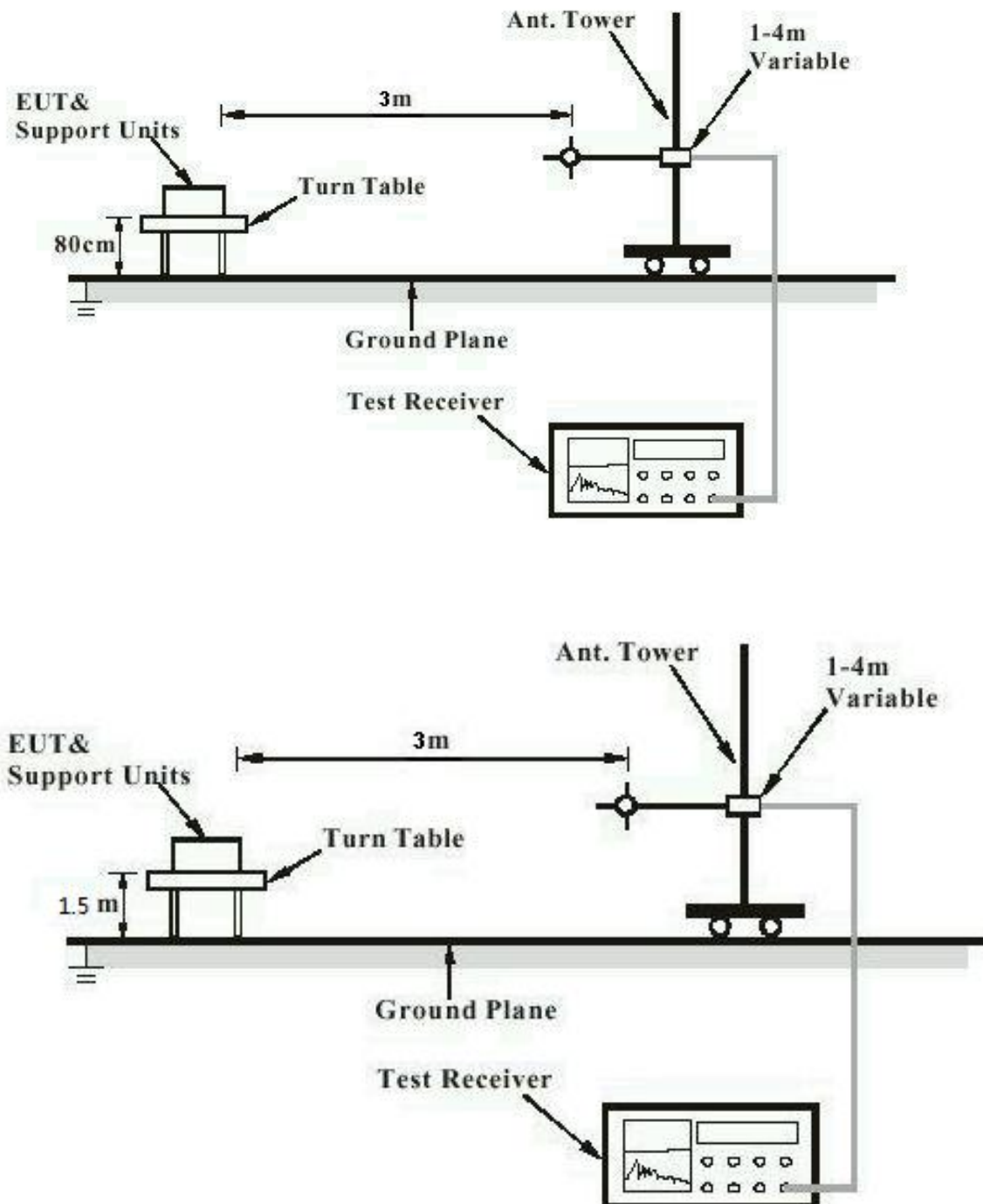


Diagram of Measurement Equipment Configuration for Conduction Measurement

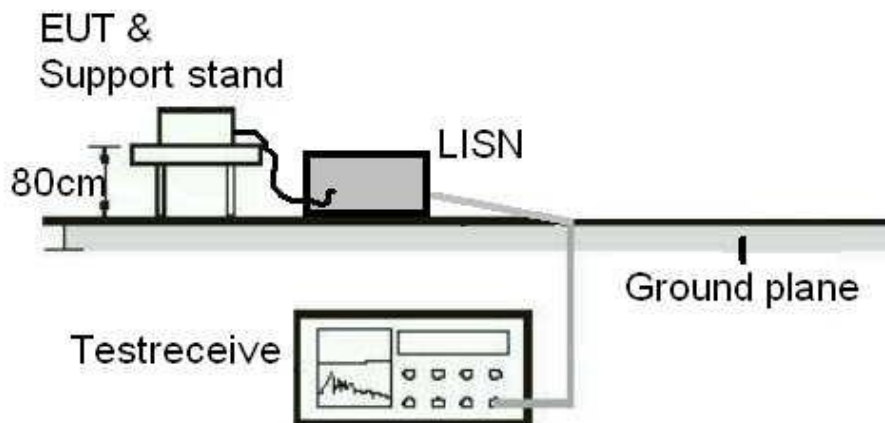
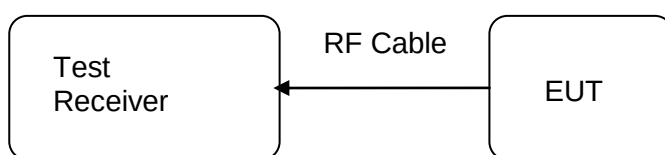


Diagram of Measurement Equipment Configuration for Transmitter Measurement



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:**Pass**

Test standard	:	Part 15.203 RSS-Gen Clause 8.3
Limit		The use of antennas with directional gains that do not exceed 6dBi

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is 3.1dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

5.1.2 Maximum Peak Conducted Output Power

RESULT:

Pass

Test date	:	2017-04-01
Test standard	:	FCC Part 15.247(b)(1) FCC Part 15.247(b)(3) RSS-247 clause 5.4(2) RSS-247 clause 5.4(4)
Basic standard	:	ANSI C63.10: 2013 Clause 9.1 of KDB 558074 v03r05
Limit	:	125mW, 1W
Kind of test site	:	Shielded room

Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A.1.a
Ambient temperature	:	25°C
Relative humidity	:	50%
Atmospheric pressure	:	101kPa

Table 5: Test result of Peak Output Power of Buletooth (BDR mode)

Channel	Channel Frequency (MHz)	Peak Output Power	Limit	e.i.r.p.	Limit
		(dBm)	(dBm)	(dBm)	(dBm)
Low Channel	2402	1.428	21	4.528	36
Middle Channel	2441	0.823	21	3.923	36
High Channel	2480	2.191	21	5.291	36

Table 6: Test result of Peak Output Power of Bluetooth (EDR mode)

Channel	Channel Frequency (MHz)	Peak Output Power	Limit	e.i.r.p.	Limit
		(dBm)	(dBm)	(dBm)	(dBm)
Low Channel	2402	-0.254	21	2.846	36
Middle Channel	2441	-2.520	21	0.580	36
High Channel	2480	-1.204	21	1.896	36

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5.1.3 20dB Bandwidth and 99% Bandwidth**RESULT:****Pass**

Date of testing : 2017-04-01
Test standard : FCC Part 15.247(a)(1)
RSS-210 clause 5.1(2)
RSS-Gen clause 6.6
Basic standard : ANSI C63.10: 2013
Clause 8 of KDB 558074 v03r05
Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
Operation Mode : A.1.a
Ambient temperature : 25°C
Relative humidity : 50%
Atmospheric pressure : 101kPa

Table 7: Test result of 20dB & 99% Bandwidth of BDR mode

Channel	Channel Frequency (MHz)	20dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low Channel	2402	0.912	0.838
Mid Channel	2441	0.888	0.836
High Channel	2480	0.889	0.833

Table 8: Test result of 20dB & 99% Bandwidth of EDR mode

Channel	Channel Frequency (MHz)	20dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low Channel	2402	1.211	1.149
Mid Channel	2441	1.227	1.263
High Channel	2480	1.239	1.277

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5.1.4 Conducted Spurious Emissions measured in 100kHz Bandwidth**RESULT:****Pass**

Date of testing	:	2017-04-01
Test standard	:	FCC part 15.247(d) RSS-247 clause 5.5
Basic standard	:	ANSI C63.10: 2013
Limit	:	20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power);
Kind of test site	:	Shield room

Test setup

Test Channel	:	Low/ Middle/ High
Operation mode	:	A.1.a
Ambient temperature	:	25°C
Relative humidity	:	50%
Atmospheric pressure	:	101kPa

For details refer to following test plot.

Test Plot of Conducted spurious emissions measured in 100kHz Bandwidth of BDR mode Low Channel



Middle Channel


High Channel



Band Edge


Test Plot of Conducted spurious emissions measured in 100kHz Bandwidth of EDR mode

Low Channel



Middle Channel


High Channel



Band Edge


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5.1.5 Spurious Emission

RESULT:**Pass**

Date of testing	:	2017-04-17 to 2017-04-19
Test standard	:	FCC part 15.247(d) RSS-Gen
Basic standard	:	ANSI C63.10: 2013 Clause 11 of KDB 558074 v03r05
Limits	:	FCC part 15.209(a)
Kind of test site	:	3m Semi-Anechoic Chamber & Anechoic Chamber

Test setup

Test Channel	:	Low/ Middle/ High
Operation mode	:	A.1.a
Ambient temperature	:	23°C
Relative humidity	:	48%
Atmospheric pressure	:	101kPa

For details refer to following test plot.

Test Plot of Spurious Emission

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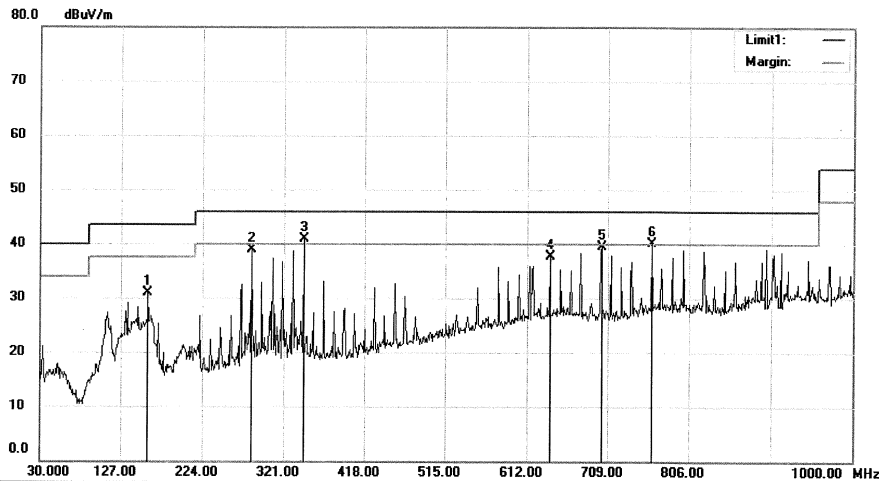


Radiated Emission Measurement

File :TUV

Data :#2283

Date: 2017/04/19



Site 3m Chamber #1

 Polarization: **Horizontal**

Temperature: 22 C

Limit: (RE)FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 50 %

EUT: Bluetooth Stereo Speaker

M/N: NS-CSPBTWP1

Mode: GFSK(2402MHz)

Note:

No.	Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit	Over	Antenna Height	Table Degree	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB			
1		159.0100	46.20	-15.22	30.98	43.50	-12.52	QP		
2		282.2000	49.44	-10.48	38.96	46.00	-7.04	QP		
3	*	344.2800	50.16	-9.20	40.96	46.00	-5.04	QP		
4		639.1600	39.46	-1.77	37.69	46.00	-8.31	QP		
5		701.2400	41.51	-1.97	39.54	46.00	-6.46	QP		
6	!	762.3500	40.73	-0.58	40.15	46.00	-5.85	QP		

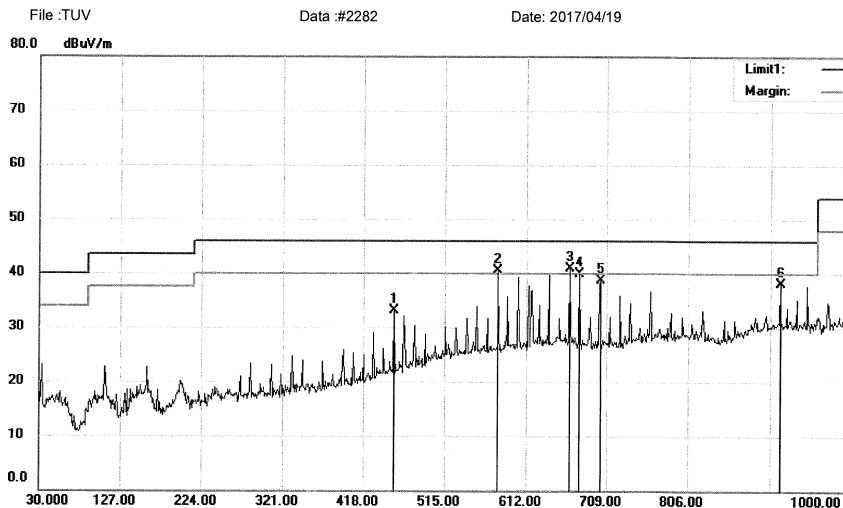
*:Maximum data x:Over limit !:over margin

Operator: XF

File :TUV\Data :#2283

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Radiated Emission Measurement


Site: 3m Chamber #1 Polarization: **Vertical** Temperature: 22 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 50 %
 EUT: Bluetooth Stereo Speaker
 M/N: NS-CSPBTWP1
 Mode: GFSK(2402MHz)
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		454.8600	40.55	-7.54	33.01	46.00	-12.99	QP		
2	!	578.0500	44.46	-3.92	40.54	46.00	-5.46	QP		
3	*	664.3800	42.67	-1.74	40.93	46.00	-5.07	QP		
4		676.0200	42.16	-2.17	39.99	46.00	-6.01	QP		
5		701.2400	40.65	-1.97	38.68	46.00	-7.32	QP		
6		914.6400	36.41	1.75	38.16	46.00	-7.84	QP		

*:Maximum data x:Over limit !:over margin

Operator: XF

File: TUVData #2282

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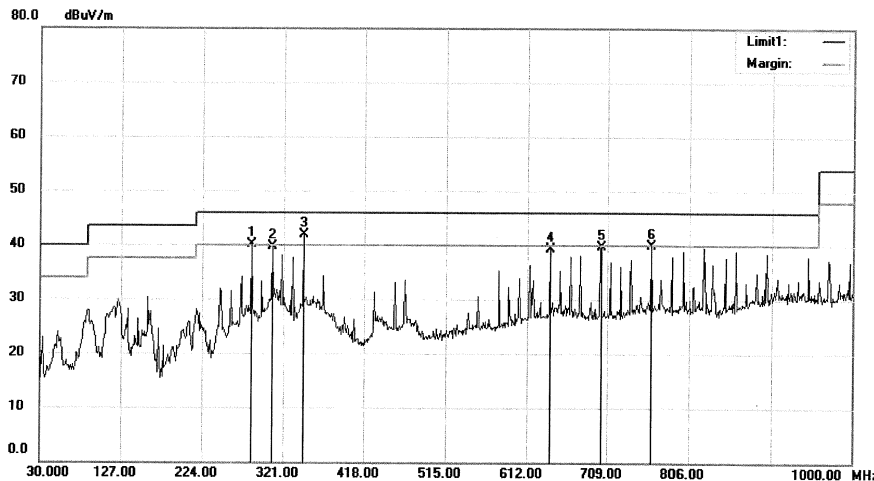
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Radiated Emission Measurement

File :TUV

Data :#2284

Date: 2017/04/19



Site 3m Chamber #1

 Polarization: **Horizontal**

Temperature: 22 C

Limit: (RE)FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 50 %

EUT: Bluetooth Stereo Speaker

M/N: NS-CSPBTWP1

Mode: GFSK(2441MHz)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	!	282.2000	50.58	-10.48	40.10	46.00	-5.90	QP		
2		307.4200	49.65	-9.92	39.73	46.00	-6.27	QP		
3	*	344.2800	51.04	-9.20	41.84	46.00	-4.16	QP		
4		639.1600	41.09	-1.77	39.32	46.00	-6.68	QP		
5		701.2400	41.63	-1.97	39.66	46.00	-6.34	QP		
6		762.3500	40.44	-0.58	39.86	46.00	-6.14	QP		

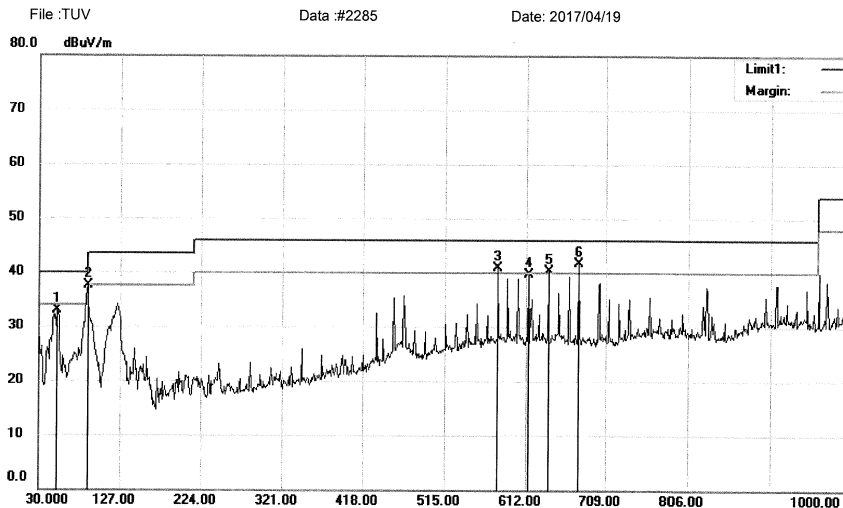
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Operator: XF

File :TUVData :#2284

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Radiated Emission Measurement


Site: 3m Chamber #1 Polarization: **Vertical** Temperature: 22 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 50 %
 EUT: Bluetooth Stereo Speaker
 M/N: NS-CSPBTWP1
 Mode: GFSK(2441MHz)
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		51.3400	44.67	-11.73	32.94	40.00	-7.06	QP		
2		88.2000	50.76	-13.28	37.48	43.50	-6.02	QP		
3	!	578.0500	44.85	-3.92	40.93	46.00	-5.07	QP		
4		614.9100	42.08	-2.36	39.72	46.00	-6.28	QP		
5	!	639.1600	42.01	-1.77	40.24	46.00	-5.76	QP		
6	*	676.0200	43.79	-2.17	41.62	46.00	-4.38	QP		

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Operator: XF

File: TUVData: #2285

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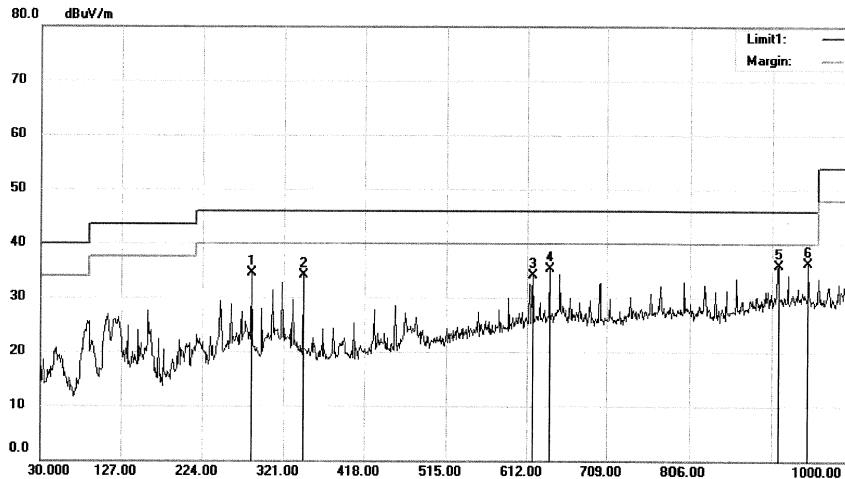
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Radiated Emission Measurement

File :TUV

Data :#2287

Date: 2017/04/19



Site 3m Chamber #1

 Polarization: **Horizontal**

Temperature: 22 C

Limit: (RE)FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 50 %

EUT: Bluetooth Stereo Speaker

M/N: NS-CSPBTWP1

Mode: GFSK(2480MHz)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		282.2000	45.04	-10.48	34.56	46.00	-11.44	QP		
2		344.2800	43.27	-9.20	34.07	46.00	-11.93	QP		
3		618.7900	36.07	-2.00	34.07	46.00	-11.93	QP		
4		639.1600	37.01	-1.77	35.24	46.00	-10.76	QP		
5		910.7600	34.18	1.73	35.91	46.00	-10.09	QP		
6	*	946.6500	34.86	1.43	36.29	46.00	-9.71	QP		

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Operator: XF

File :TUVData :#2287

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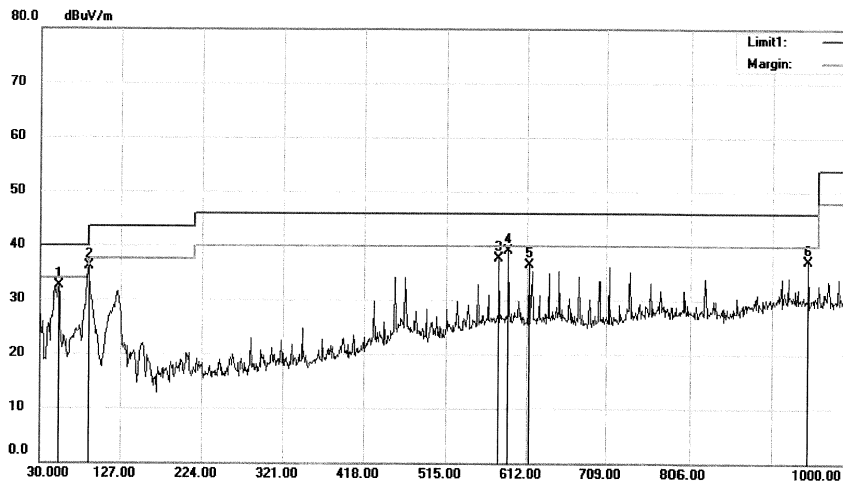
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Radiated Emission Measurement

File: TUV

Data: #2286

Date: 2017/04/19



Site: 3m Chamber #1

 Polarization: **Vertical**

Temperature: 22 C

Limit: (RE)FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 50 %

EUT: Bluetooth Stereo Speaker

M/N: NS-CSPBTWP1

Mode: GFSK(2480MHz)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		52.3100	44.43	-11.84	32.59	40.00	-7.41	QP		
2		88.2000	49.39	-13.28	36.11	43.50	-7.39	QP		
3		578.0500	41.69	-3.92	37.77	46.00	-8.23	QP		
4	*	589.6900	42.51	-3.48	39.03	46.00	-6.97	QP		
5		614.9100	38.87	-2.36	36.51	46.00	-9.49	QP		
6		946.6500	35.76	1.43	37.19	46.00	-8.81	QP		

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Operator: XF

File: TUVData: #2286

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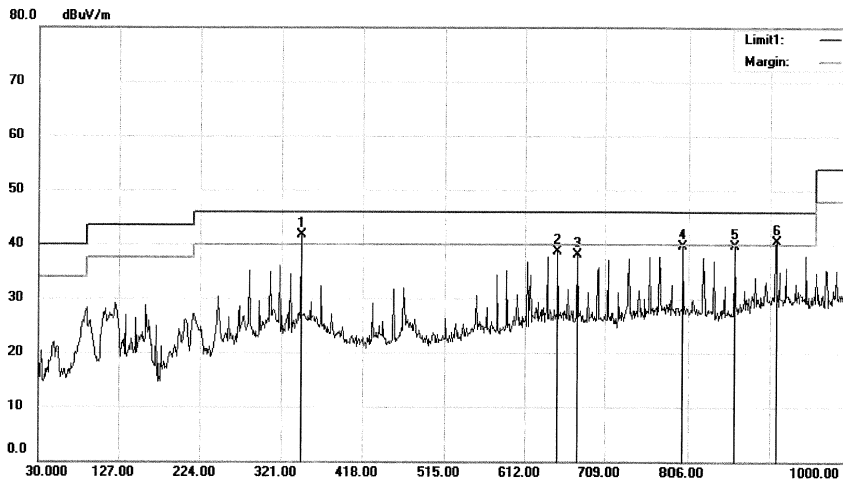
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Radiated Emission Measurement

File :TUV

Data :#2288

Date: 2017/04/19



Site 3m Chamber #1

 Polarization: **Horizontal**

Temperature: 22 C

Limit: (RE)FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 50 %

EUT: Bluetooth Stereo Speaker

M/N: NS-CSPBTWP1

Mode: 8DPSK(2402MHz)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	344.2800	50.92	-9.20	41.72	46.00	-4.28	QP		
2		651.7700	39.92	-1.19	38.73	46.00	-7.27	QP		
3		676.0200	40.34	-2.17	38.17	46.00	-7.83	QP		
4		799.2100	40.00	-0.22	39.78	46.00	-6.22	QP		
5		861.2900	39.91	-0.29	39.62	46.00	-6.38	QP		
6	!	910.7600	38.72	1.73	40.45	46.00	-5.55	QP		

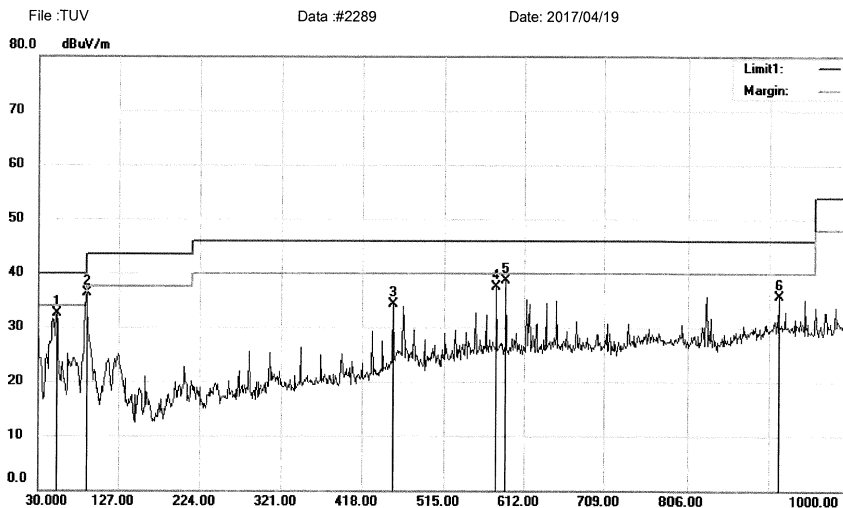
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Operator: XF

File :TUVData :#2288

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Radiated Emission Measurement


Site 3m Chamber #1

 Polarization: **Vertical**

Temperature: 22 C

Limit: (RE)FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 50 %

EUT: Bluetooth Stereo Speaker

M/N: NS-CSPBTWP1

Mode: 8DPSK(2402MHz)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		52.3100	44.32	-11.84	32.48	40.00	-7.52	QP		
2	*	88.2000	49.56	-13.28	36.28	43.50	-7.22	QP		
3		454.8600	41.78	-7.54	34.24	46.00	-11.76	QP		
4		578.0500	41.38	-3.92	37.46	46.00	-8.54	QP		
5		589.6900	42.20	-3.48	38.72	46.00	-7.28	QP		
6		914.6400	33.96	1.75	35.71	46.00	-10.29	QP		

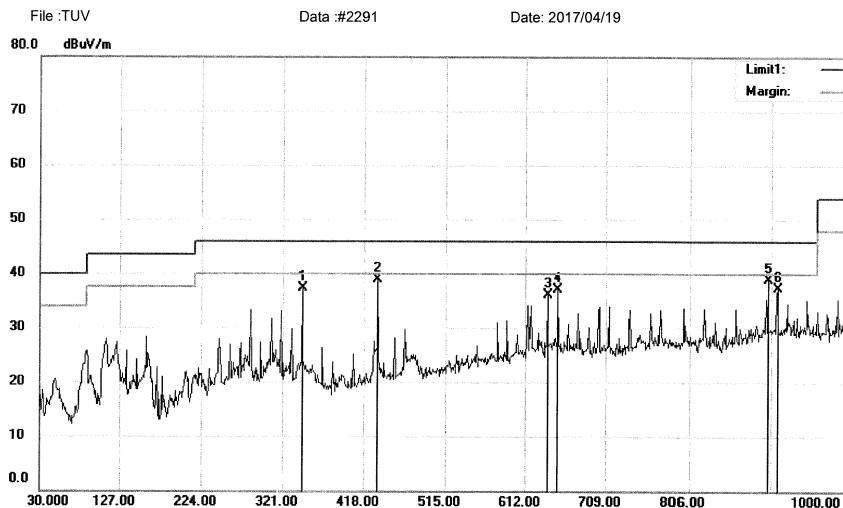
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Operator: XF

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Radiated Emission Measurement


Site: 3m Chamber #1 Polarization: **Horizontal** Temperature: 22 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 50 %
 EUT: Bluetooth Stereo Speaker
 M/N: NS-CSPBTWP1
 Mode: 8DPSK(2441MHz)
 Note:

No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	344.2800	46.42	-9.20	37.22	46.00	-8.78	QP		
2 *	434.4900	46.45	-7.50	38.95	46.00	-7.05	QP		
3	639.1600	37.86	-1.77	36.09	46.00	-9.91	QP		
4	651.7700	38.36	-1.19	37.17	46.00	-8.83	QP		
5	899.1200	37.68	1.14	38.82	46.00	-7.18	QP		
6	910.7600	35.58	1.73	37.31	46.00	-8.69	QP		

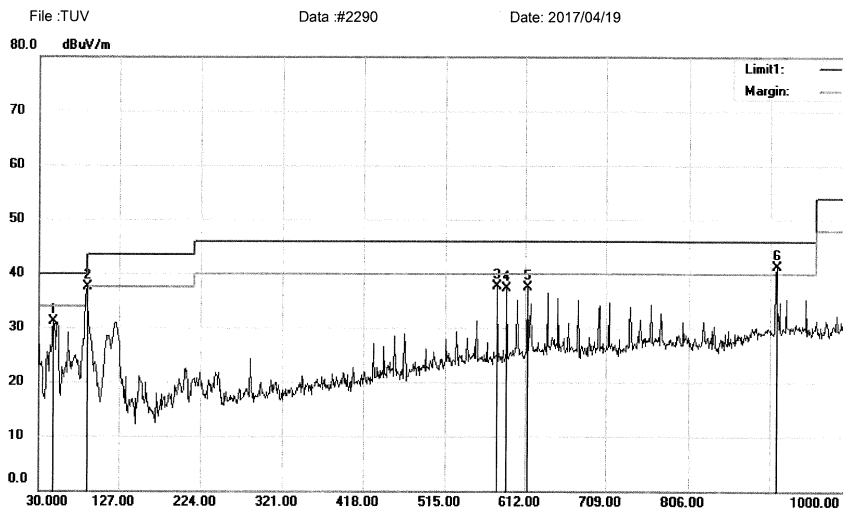
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Operator: XF

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Radiated Emission Measurement


Site: 3m Chamber #1 Polarization: **Vertical** Temperature: 22 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 50 %
 EUT: Bluetooth Stereo Speaker
 M/N: NS-CSPBTWP1
 Mode: 8DPSK(2441MHz)
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		47.4600	42.52	-11.48	31.04	40.00	-8.96	QP		
2		88.2000	50.76	-13.28	37.48	43.50	-6.02	QP		
3		578.0500	41.53	-3.92	37.61	46.00	-8.39	QP		
4		589.6900	40.76	-3.48	37.28	46.00	-8.72	QP		
5		614.9100	39.82	-2.36	37.46	46.00	-8.54	QP		
6	*	910.7600	39.48	1.73	41.21	46.00	-4.79	QP		

*:Maximum data x:Over limit !:over margin

Operator: XF

File: TUVData :#2290

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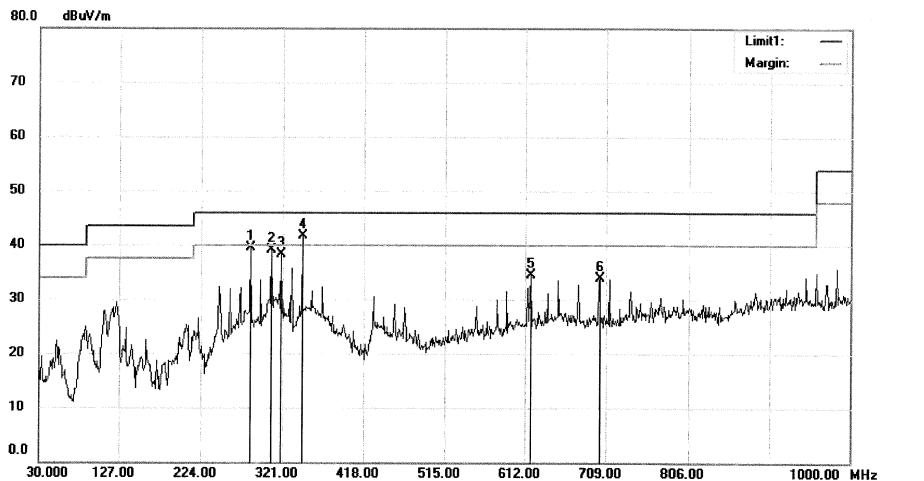
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Radiated Emission Measurement

File :TUV

Data :#2292

Date: 2017/04/19



Site 3m Chamber #1

 Polarization: **Horizontal**

Temperature: 22 C

Limit: (RE)FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 50 %

EUT: Bluetooth Stereo Speaker

M/N: NS-CSPBTWP1

Mode: 8DPSK(2480MHz)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		282.2000	49.94	-10.48	39.46	46.00	-6.54	QP		
2		307.4200	48.99	-9.92	39.07	46.00	-6.93	QP		
3		319.0600	48.35	-10.06	38.29	46.00	-7.71	QP		
4	*	344.2800	50.81	-9.20	41.61	46.00	-4.39	QP		
5		618.7900	36.44	-2.00	34.44	46.00	-11.56	QP		
6		701.2400	35.85	-1.97	33.88	46.00	-12.12	QP		

*:Maximum data x:Over limit !:over margin

Operator: XF

File :TUVData :#2292

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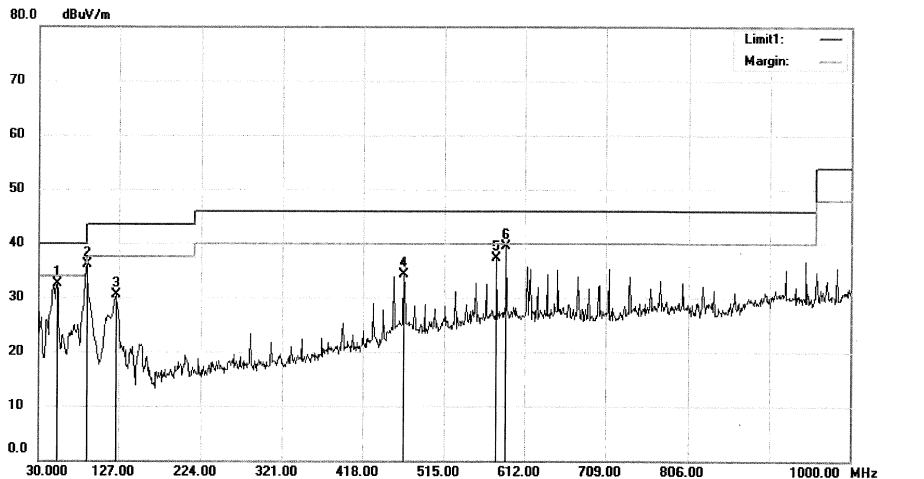
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Radiated Emission Measurement

File :TUV

Data :#2293

Date: 2017/04/19



Site 3m Chamber #1

 Polarization: **Vertical**

Temperature: 22 C

Limit: (RE)FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 50 %

EUT: Bluetooth Stereo Speaker

M/N: NS-CSPBTWP1

Mode: 8DPSK(2480MHz)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		52.3100	44.28	-11.84	32.44	40.00	-7.56	QP		
2		88.2000	49.30	-13.28	36.02	43.50	-7.48	QP		
3		123.1200	45.16	-14.75	30.41	43.50	-13.09	QP		
4		466.5000	41.87	-7.51	34.36	46.00	-11.64	QP		
5		578.0500	41.21	-3.92	37.29	46.00	-8.71	QP		
6	*	589.6900	42.93	-3.48	39.45	46.00	-6.55	QP		

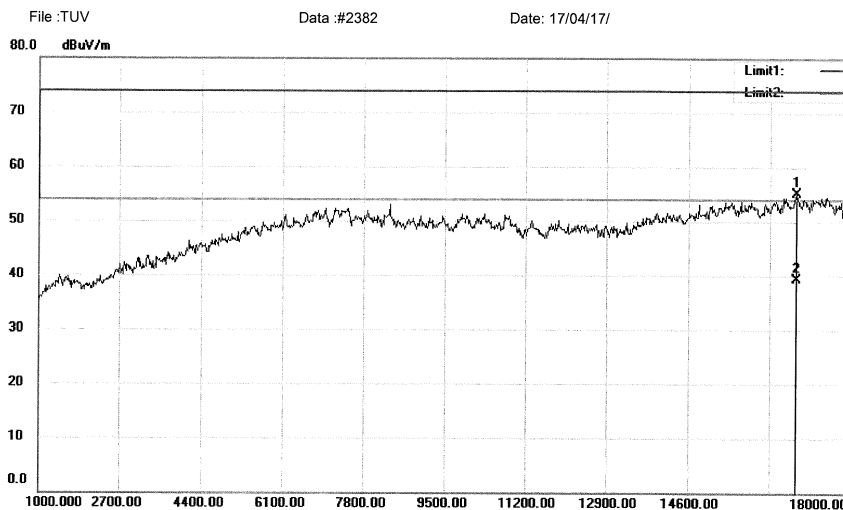
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Radiated Emission Measurement


Site: 3m Chamber #1 Polarization: **Horizontal** Temperature: 22 C
 Limit: (RE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 55 %
 EUT: Bluetooth Stereo Speaker
 M/N: NS-CSPBTWP1
 Mode: GFSK(2402MHz)
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		16844.00	39.22	15.89	55.11	74.00	-18.89	peak		
2	*	16844.00	23.41	15.89	39.30	54.00	-14.70	AVG		

*:Maximum data x:Over limit !:over margin

Operator:

File :TUVData :#2382

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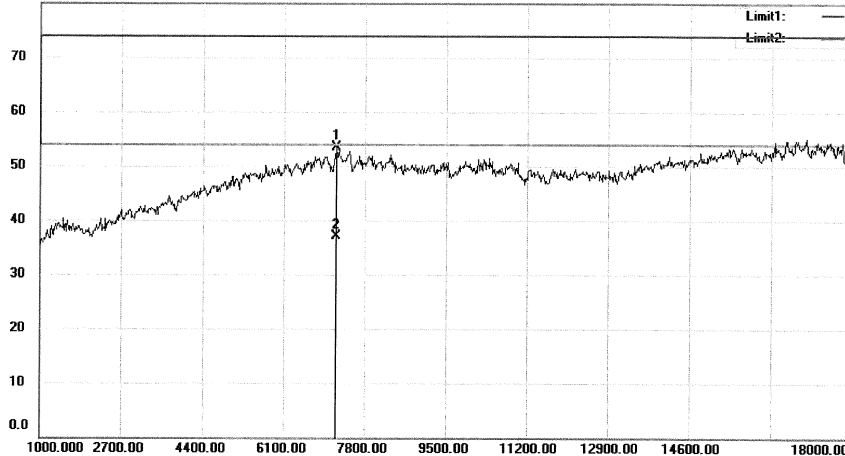

Radiated Emission Measurement

File :TUV

Data :#2381

Date: 17/04/17/

80.0 dBuV/m



Site 3m Chamber #1

 Polarization: **Vertical**

Temperature: 22 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Bluetooth Stereo Speaker

M/N: NS-CSPBTWP1

Mode:GFSK(2402MHz)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		7205.000	50.83	2.71	53.54	74.00	-20.46	peak		
2	*	7205.000	34.39	2.71	37.10	54.00	-16.90	AVG		

*:Maximum data x:Over limit !:over margin

Operator:

File :TUVData :#2381

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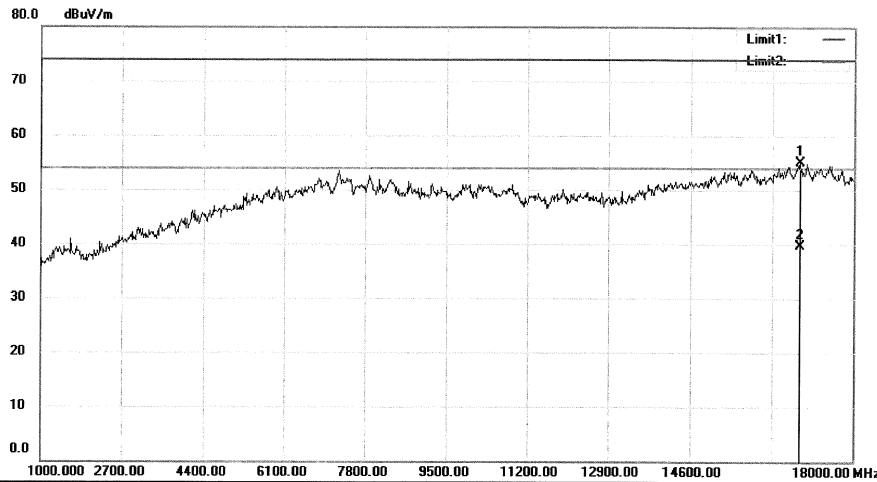
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Radiated Emission Measurement

File :TUV

Data :#2384

Date: 17/04/17/



Site 3m Chamber #1

 Polarization: **Horizontal**

Temperature: 22 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Bluetooth Stereo Speaker

M/N: NS-CSPBTWP1

Mode:GFSK(2441MHz)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		16878.00	38.95	16.14	55.09	74.00	-18.91	peak		
2	*	16878.00	23.56	16.14	39.70	54.00	-14.30	AVG		

*:Maximum data x:Over limit !:over margin

Operator:

File :TUVData :#2384

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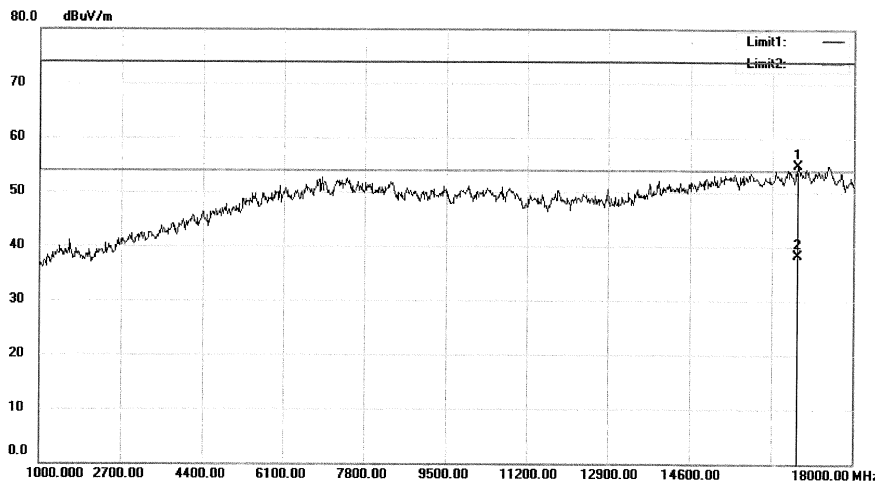
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Radiated Emission Measurement

File :TUV

Data :#2383

Date: 17/04/17/



Site 3m Chamber #1

 Polarization: **Vertical**

Temperature: 22 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Bluetooth Stereo Speaker

M/N: NS-CSPBTWP1

Mode:GFSK(2441MHz)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		16827.00	39.16	15.78	54.94	74.00	-19.06	peak		
2	*	16827.00	22.62	15.78	38.40	54.00	-15.60	AVG		

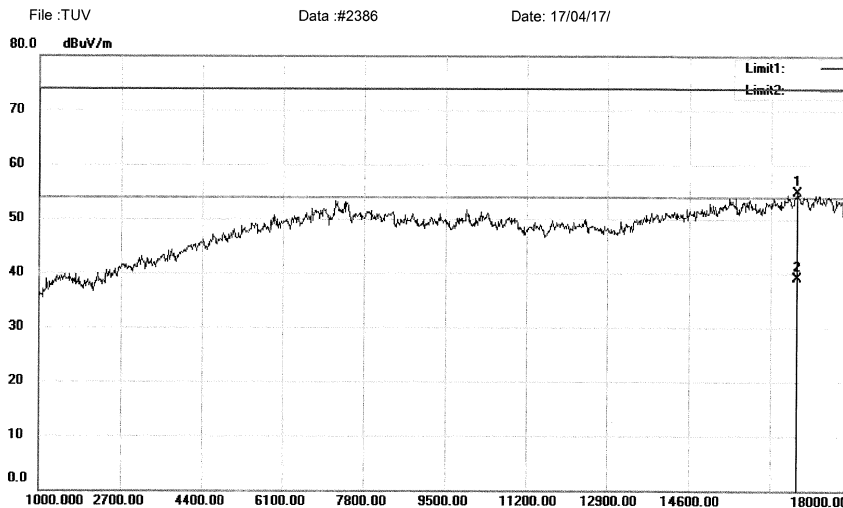
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Operator:

File :TUVData :#2383

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Radiated Emission Measurement


Site: 3m Chamber #1 Polarization: **Horizontal** Temperature: 22 C
 Limit: (RE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 55 %
 EUT: Bluetooth Stereo Speaker
 M/N: NS-CSPBTWP1
 Mode: GFSK(2480MHz)
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		16861.00	38.95	16.03	54.98	74.00	-19.02	peak		Comment
2	*	16861.00	23.17	16.03	39.20	54.00	-14.80	AVG		

*:Maximum data x:Over limit !:over margin

Operator:

File: TUVData: #2386

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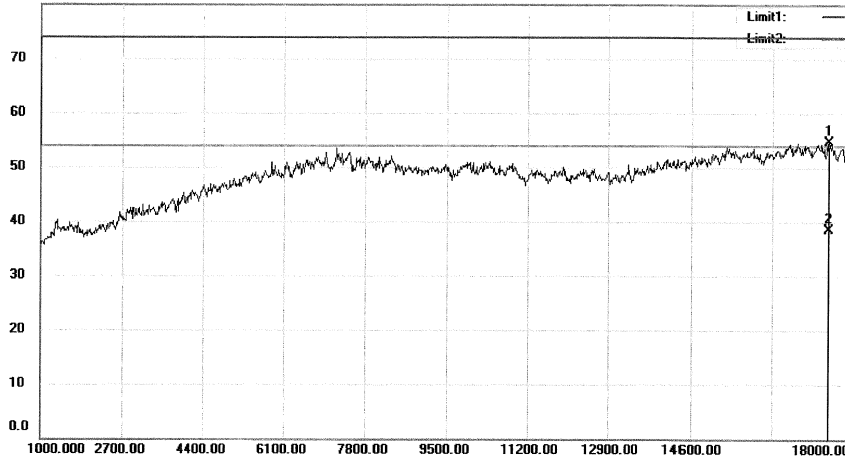
Radiated Emission Measurement

File :TUV

Data :#2385

Date: 17/04/17/

80.0 dBuV/m



Site 3m Chamber #1

 Polarization: **Vertical**

Temperature: 22 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Bluetooth Stereo Speaker

M/N: NS-CSPBTWP1

Mode: GFSK(2480MHz)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		17490.00	36.99	17.67	54.66	74.00	-19.34	peak		
2	*	17490.00	20.83	17.67	38.50	54.00	-15.50	AVG		

*:Maximum data x:Over limit !:over margin

Operator:

File :TUVData :#2385

Page: 1

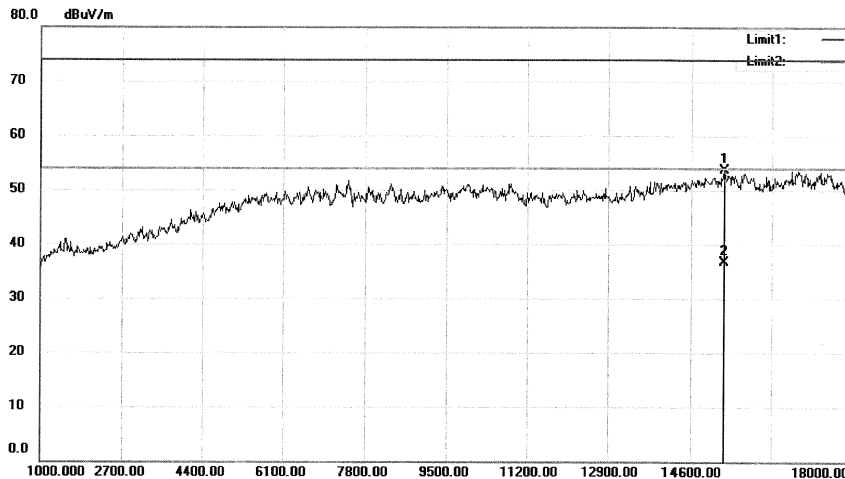
Shenzhen EMTEK Co., Ltd.
 Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong 518052 P.R. China
 www.emtek.com.cn Tel: +86-755-2695 4280 Fax: +86-755-2695 4282


Radiated Emission Measurement

File :TUV

Data :#2391

Date: 17/04/17/



Site 3m Chamber #1

 Polarization: **Horizontal**

Temperature: 22 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Bluetooth Stereo Speaker

M/N: NS-CSPBTWP1

Mode:8DPSK(2402MHz)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		15280.00	41.93	11.78	53.71	74.00	-20.29	peak		
2	*	15280.00	24.92	11.78	36.70	54.00	-17.30	AVG		

*:Maximum data x:Over limit !:over margin

Operator:

File :TUVData :#2391

Page: 1

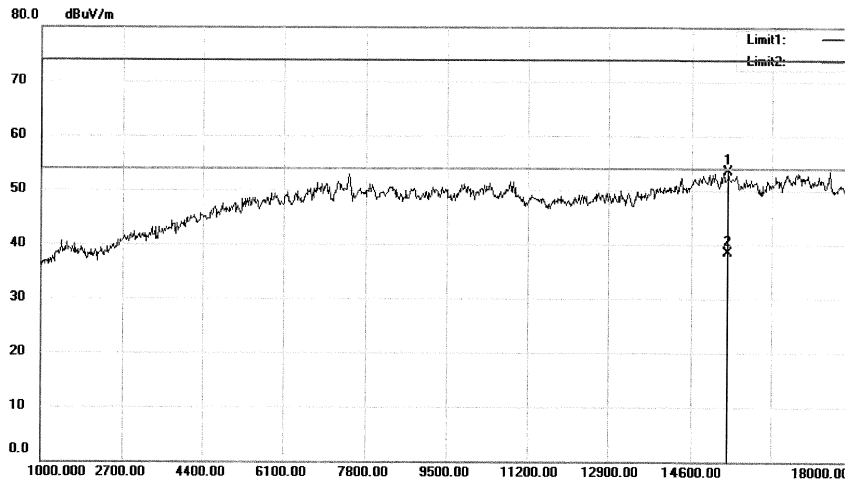
Shenzhen EMTEK Co., Ltd.
 Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
 www.emtek.com.cn Tel: +86-755-2695 4283 Fax: +86-755-2695 4282


Radiated Emission Measurement

File :TUV

Data :#2392

Date: 17/04/17/



Site 3m Chamber #1

 Polarization: **Vertical**

Temperature: 22 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Bluetooth Stereo Speaker

M/N: NS-CSPBTWP1

Mode:8DPSK(2402MHz)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		15365.00	41.89	11.57	53.46	74.00	-20.54	peak		
2	*	15365.00	27.03	11.57	38.60	54.00	-15.40	AVG		

*:Maximum data x:Over limit !:over margin

Operator:

File :TUVData :#2392

Page: 1

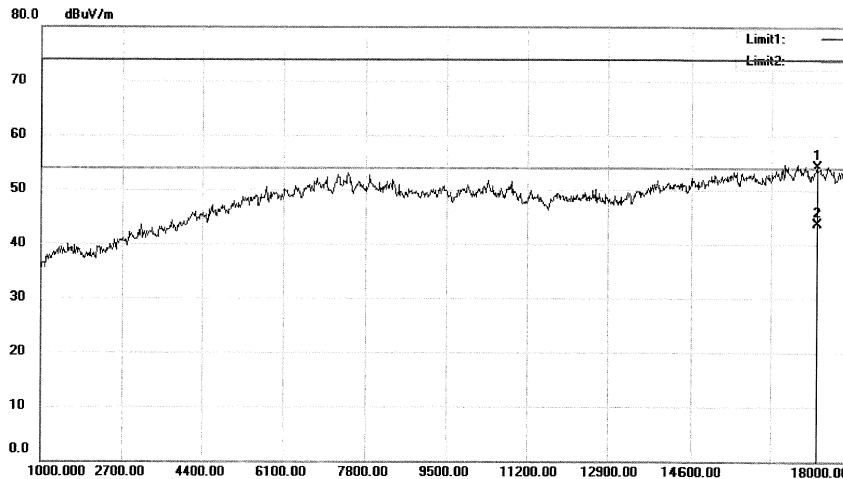
Shenzhen EMTEK Co., Ltd.
 Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong 518052 P.R. China
 www.emtek.com.cn Tel: +86-755-2695 4280 Fax: +86-755-2695 4282

Radiated Emission Measurement

File :TUV

Data :#2390

Date: 17/04/17/



Site 3m Chamber #1

 Polarization: **Horizontal**

Temperature: 22 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Bluetooth Stereo Speaker

M/N: NS-CSPBTWP1

Mode:8DPSK(2441MHz)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		17252.00	36.99	17.34	54.33	74.00	-19.67	peak		
2	*	17252.00	26.28	17.34	43.62	54.00	-10.38	AVG		

*:Maximum data x:Over limit !:over margin

Operator:

File :TUVData :#2390

Page: 1