

Product: DR.BEI Sonic Electric Toothbrush

Trade Name:

DR-BEI

Model Number: DR.BEI S7

Family Model: N/A

Report No.: S20042802601001

Prepared for

WuXi QingHeXiaoBei Technology Co.,Ltd Room 1106, 11th floor, NO.2 of Buliding 530, Binhu District, Wuxi City, Jiangsu, P.R. China

Prepared by

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TEST RESULT CERTIFICATION

Applicant's name:	WuXi QingHeXia	oBei Technology Co.,Ltd	
Address:	Room 1106, 11th Jiangsu, P.R. Chi	floor, NO.2 of Buliding 530, Binhu D ina	istrict, Wuxi City,
Manufacturer's Name:	WuXi QingHeXia	oBei Technology Co.,Ltd	
Address:	Room 1106, 11th Jiangsu, P.R. Chi	floor, NO.2 of Buliding 530, Binhu D ina	istrict, Wuxi City,
Factory 's Name:	N/A		
Address:	N/A		
Product description			
Product name:	DR.BEI Sonic Ele	ectric Toothbrush	
Model and/or type reference :	DR.BEI S7		
results show that the equipment un applicable only to the tested sample This report shall not be reproduced	KDB 680106 D01 en tested by She ler test (EUT) is i identified in the revision except in full, with may be altered of ted in the revision only to the tested	I RF Exposure Wireless Charging Aporther NTEK Testing Technology Connection compliance with the FCC requirements of the written approval of Shenzher revised by Shenzhen NTEK Testing of the document. sample identified in this report. or. 2020 ~ 16 May. 2020 ay. 2020	en NTEK Testing
Testing Engine	er : 	Jerry Xie)	
Technical Man	ger : 	(Jason Chen)	
Authorized Sig	natory :	Sam . Chew (Sam Chen)	

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1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission								
Standard	Test Item	FCC Rules	Limit	Judgment	Remark			
	Conducted Emission	§15.207	Class B	PASS				
FCC part 15C:2018 ANSI C63.10:2013	Radiated Emission	§15.209	Class B	PASS				
	ANTENNA APPLICATION	§15.203	/	PASS				

NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report
- (2) For client's request and manual description, the test will not be executed.

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1.1 FACILITIES AND ACCREDITATIONS

All measurement facilities used to collect the measurement data are located at

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

1.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

CNAS-Lab. : The Laboratory has been assessed and proved to be in compliance with

CNAS-CL01:2006 (identical to ISO/IEC 17025:2005)

The Certificate Registration Number is L5516.

IC-Registration : The Certificate Registration Number is 9270A-1.

FCC- Accredited : Test Firm Registration Number: 463705.

Designation Number: CN1184

A2LA-Lab. : The Certificate Registration Number is 4298.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for

the competence of testing and calibration laboratories.

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).

Name of Firm : Shenzhen NTEK Testing Technology Co., Ltd.

Site Location : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang

Street, Bao'an District, Shenzhen 518126 P.R. China.

1.3 MEASUREMENT UNCERTAINTY

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

A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKC01	ANSI	150 KHz ~ 30MHz	3.2	

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKA01	ANSI	30MHz ~ 1000MHz	4.7	
		1GHz ~12.4GHz	5.0	

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Revision History

Report No.	Version	Description	Issued Date
S20042802601001	Rev.01	Initial issue of report	16 May. 2020

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2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

	Product Feature and Specification				
Equipment	DR.BEI Sonic Electric Toothbrush				
Trade Name	@ DR-BEI				
FCC ID	2AWCX-DRBEIS7				
Model No.	DR.BEI S7				
Family Model	N/A				
Model Difference	N/A				
Operating Frequency	110.260KHz~175.326KHz				
Modulation Technique	Induction				
Antenna Type	Induction coil				
Power supply	☑DC supply: Input: 5V/1A				
1 ower supply	⊠Adapter supply: DC 5V form adapter				
Output	Output:5V 1A Wireless Output: 4.2W(Max)				
Battery	Capacity: 3.7V 2000mAh				
HW Version	N/A				
SW Version	N/A				

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2.1.1 DESCRIPTION OF TEST MODES

EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

EUT Exercise

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

The following summary table is showing all test modes to demonstrate in compliance with the standard.

,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	table is enouning an test medical to demonstrate in compliance man are					
	Test Cases					
Test Item	Data Rate/ Modulation					
AC Conducted Emission	Mode 1: Max load*					
Radiated Test Cases	Mode 1: Max load					

(*)EUT can only access the specified load, can not adjust the size of the load

Carrier Frequency and Channel list:

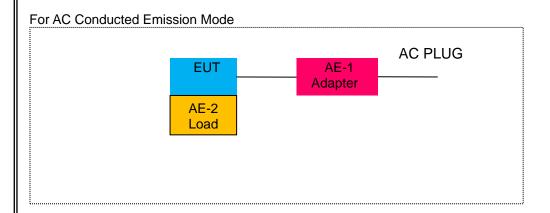
Channel	Frequency(kHz)
1(Low Channel)	110.260
2(Middle Channel)	155.000
3(High Channel)	175.326

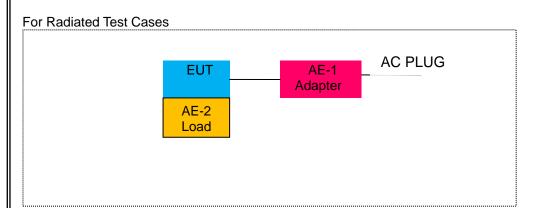
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2.2 DESCRIPTION OF TEST SETUP





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2.3 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

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	Brand	Model/Type No.	Series No.	Note
AE-1	Adapter	N/A	N/A	N/A	Peripherals
AE-2	Load	N/A	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable	YES	NO	0.8m	

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.
- (3) "YES" means "shielded" "with core"; "NO" means "unshielded" "without core".

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2.4 MEASUREMENT INSTRUMENTS LIST

Radiation Test equipment

	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2019.05.19	2020.05.18	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2019.10.08	2020.10.07	1 year
4	Test Receiver	R&S	ESPI	101318	2019.05.19	2020.05.18	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2020.04.08	2021.04.07	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2019.05.19	2020.05.18	1 year
7	Amplifier	EMC	EMC051835 SE	980246	2019.08.05	2020.08.04	1 year
8	Amplifier	MITEQ	TTA1840-35- HG	177156	2019.08.05	2020.08.04	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2019.05.19	2020.05.18	1 year
10	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2018.04.21	2021.04.20	3 year
11	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2018.04.21	2021.04.20	3 year

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2019.05.19	2020.05.18	1 year
2	LISN	R&S	ENV216	101313	2020.04.18	2021.04.17	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2019.05.19	2020.05.18	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2019.05.19	2020.05.18	1 year
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2018.04.21	2021.04.20	3 year
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2018.04.21	2021.04.20	3 year
7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2018.04.21	2021.04.20	3 year

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

	li	mit
FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note:

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

The following table is the setting of the receiver

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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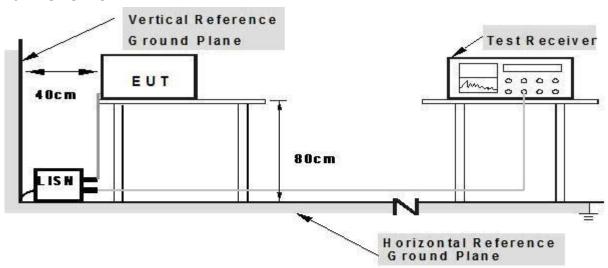




3.1.2 TEST PROCEDURE

- 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.

3.1.3 TEST SETUP



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

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

3.1.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.

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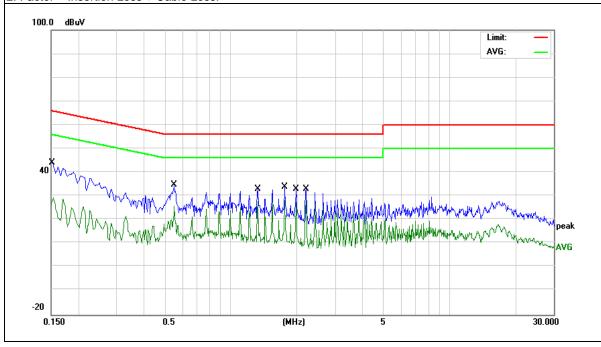
3.1.5 TEST RESULTS

EUT:	DR.BEI Sonic Electric Toothbrush	Model Name. :	DR.BEI S7		
Temperature:	26 ℃	Relative Humidity:	54%		
Pressure:	1010hPa	Test Date:	2020-04-28		
Test Mode:	Mode 1(Normal link) Phase : L				
Test Voltage:	DC 5V from adapter AC 120V/60Hz				

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1539	33.66	9.75	43.41	65.78	-22.37	QP
0.1539	19.50	9.75	29.25	55.78	-26.53	AVG
0.5500	25.09	9.74	34.83	56.00	-21.17	QP
0.5500	16.14	9.74	25.88	46.00	-20.12	AVG
1.3260	23.26	9.75	33.01	56.00	-22.99	QP
1.3260	18.07	9.75	27.82	46.00	-18.18	AVG
1.7660	24.06	9.78	33.84	56.00	-22.16	QP
1.7660	18.16	9.78	27.94	46.00	-18.06	AVG
1.9859	23.32	9.78	33.10	56.00	-22.90	QP
1.9859	17.61	9.78	27.39	46.00	-18.61	AVG
2.2019	23.24	9.78	33.02	56.00	-22.98	QP
2.2019	18.82	9.78	28.60	46.00	-17.40	AVG

Remark:

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



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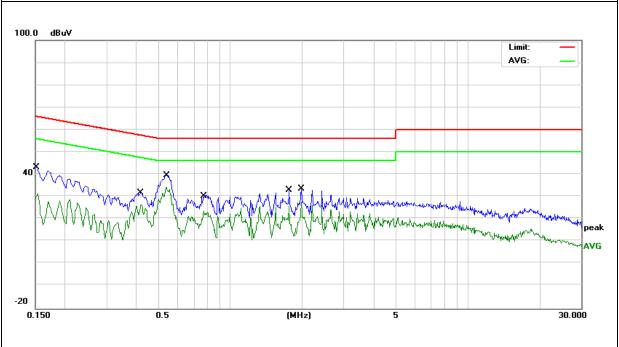


IF111:	DR.BEI Sonic Electric Toothbrush	Model Name. :	DR.BEI S7		
Temperature:	26 ℃	Relative Humidity:	54%		
Pressure:	1010hPa	Test Date:	2020-04-28		
Test Mode:	Mode 1(Normal link) Phase : N				
Test Voltage:	DC 5V from adapter AC 120V/60Hz				

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Damark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1539	33.11	9.74	42.85	65.78	-22.93	QP
0.1539	21.80	9.74	31.54	55.78	-24.24	AVG
0.4180	21.89	9.75	31.64	57.49	-25.85	QP
0.4180	16.70	9.75	26.45	47.49	-21.04	AVG
0.5340	29.81	9.75	39.56	56.00	-16.44	QP
0.5340	24.43	9.75	34.18	46.00	-11.82	AVG
0.7700	20.54	9.75	30.29	56.00	-25.71	QP
0.7700	13.77	9.75	23.52	46.00	-22.48	AVG
1.7700	23.11	9.79	32.90	56.00	-23.10	QP
1.7700	15.96	9.79	25.75	46.00	-20.25	AVG
1.9820	18.91	9.79	28.70	56.00	-27.30	QP
1.9820	17.73	9.79	27.52	46.00	-18.48	AVG

Remark:

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



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3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

Frequency (MHz)	Field strength (microvolts/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

15.205 Restricted bands of operation

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

Notes:

- (1) Measurement was performed at an antenna to the closed point of EUT distance of meters.
- (2) Emission level (dBuV/m)=20log Emission level (uV/m).
- (3) Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of 15.205, and the emissions located in restricted bands also comply with 15.209 limit.
- (4) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector

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3.2.2 TEST PROCEDURE

Test Arrangement for Radiated Emissions up to 1 GHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited test facility. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna (Blow 30M, use loop antenna), and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for quasi-peak detection (QP) at frequency below 1GHz.

Test Arrangement for Radiated Emissions above 1 GHz.

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna can be varied from one meter to four meters, the height of adjustment depends on the EUT height and the antenna 3dB beamwidth both, to detect the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Use the following receiver/spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW=200Hz for 9KHz to 150KHz,

RBW=9kHz for 150KHz to 30MHz,

RBW=120KHz for 30MHz to 1GHz

VBW ≥ 3*RBW

Sweep = auto

Detector function = QP

Trace = max hold

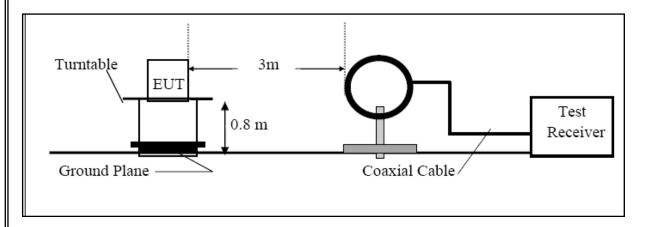
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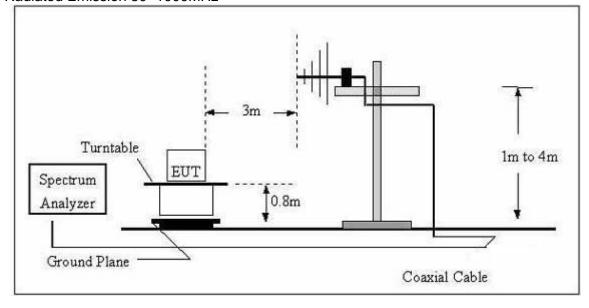


3.2.3 TEST SETUP

For Radiated Emission Test Set-Up, Frequency Below 30MHz



For Radiated Emission 30~1000MHz



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3.2.4 TEST RESULTS

TEST RESULTS (9KHz~30MHz)

EUT:	DR.BEI Sonic Electric Toothbrush	Model Name. :	DR.BEI S7
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2020-04-28
Test Mode :	Low frequency/Max Load	Polarization:	X
Test Power:	DC 5V	·	

Frequency	Ant.Pol.	Emissio	Limits	Margin	Remark
		n Level			
(MHz)		(dBuV/m)	(dBuV/m)	(dB)	
0.054	Χ	42.28	113.0	-70.7	Avg
0.111	Х	62.36	106.7	-44.3	Avg(fundamenta
0.111	۸	02.30	100.7	-44.3	I frequency)
0.643	Χ	44.21	71.44	-27.23	QP
2.925	Χ	33.26	69.54	-36.28	QP
4.973	Χ	42.02	69.54	-27.52	QP
19.675	Χ	35.33	69.54	-34.21	QP

Note:

Below 30MHz, Pre-test the X, Y, Z axis to find X axis is worst case, so only record X axis test data.

- X: Field strength which this device generates since the position of the charging coil and loop antenna differ by 0 degrees.
- Y: Field strength which this device generates since the position of the charging coil and loop antenna differ by 90 degrees.
- Z: Field strength which this device generates since the position of the charging coil and loop antenna differ by 180 degrees.

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EUT:	DR.BEI Sonic Electric Toothbrush	Model Name. :	DR.BEI S7
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2020-04-28
Test Mode :	Mid frequency/Max Load	Polarization :	X
Test Power:	DC 5V		

Frequency	Ant.Pol.	Emission	Limits	Margin	Remark
		Level			
(MHz)		(dBuV/m)	(dBuV/m)	(dB)	
0.036	X	41.24	116.48	-75.24	Avg
0.157	×	74.98	103.69	-28.71	Avg(fundamental
0.157	^	74.90	103.09	-20.7 1	frequency)
0.582	X	37.52	72.31	-34.79	QP
0.815	X	32.84	69.38	-36.54	QP
1.516	X	31.62	63.99	-32.37	QP
7.132	X	45.21	69.54	-24.33	QP

Note:

Below 30MHz, Pre-test the X, Y, Z axis to find X axis is worst case, so only record X axis test data.

- X: Field strength which this device generates since the position of the charging coil and loop antenna differ by 0 degrees.
- Y: Field strength which this device generates since the position of the charging coil and loop antenna differ by 90 degrees.
- Z: Field strength which this device generates since the position of the charging coil and loop antenna differ by 180 degrees.

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EUT:	DR.BEI Sonic Electric Toothbrush	Model Name. :	DR.BEI S7
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2020-04-28
Test Mode :	High frequency/Max Load	Polarization :	X
Test Power:	DC 5V		

Frequen cy	Ant.Pol.	Emissio n Level	Limits	Margin	Remark
(MHz)		(dBuV/m	(dBuV/m	(dB)	
0.047	X	36.96	114.16	-77.20	Avg
0.176	×	79.86	102.69	-22.83	Avg(fundamen tal frequency)
0.502	X	39.65	73.59	-33.94	QP
1.416	X	35.03	64.58	-29.55	QP
5.432	X	34.23	69.54	-35.31	QP
8.154	X	32.28	69.54	-37.26	QP

Note:

Below 30MHz, Pre-test the X, Y, Z axis to find X axis is worst case, so only record X axis test data.

- X: Field strength which this device generates since the position of the charging coil and loop antenna differ by 0 degrees.
- Y: Field strength which this device generates since the position of the charging coil and loop antenna differ by 90 degrees.
- Z: Field strength which this device generates since the position of the charging coil and loop antenna differ by 180 degrees.

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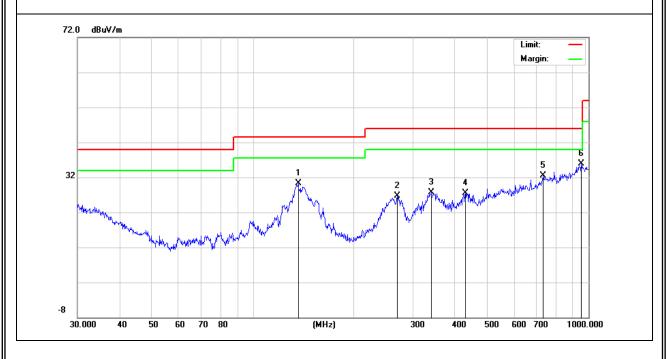
TEST RESULTS (30MHz ~1000MHz)

EUT:	DR.BEI Sonic Electric Toothbrush	Model Name. :	DR.BEI S7
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2020-04-28
Test Mode:	High frequency/Max Load	Polarization:	Horizontal
Test Power:	DC 5V		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	rterriarit
Н	136.4598	17.91	12.47	30.38	43.50	-13.12	QP
Н	269.4284	12.38	14.30	26.68	46.00	-19.32	QP
Н	339.5888	11.63	16.16	27.79	46.00	-18.21	QP
Н	429.5228	9.17	18.28	27.45	46.00	-18.55	QP
Н	731.9202	7.29	25.17	32.46	46.00	-13.54	QP
Н	952.0937	7.60	28.40	36.00	46.00	-10.00	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



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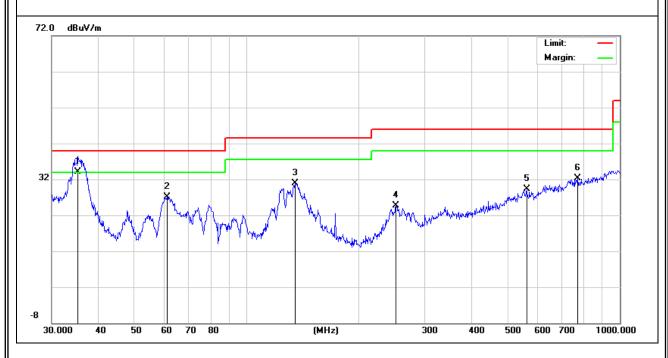


EUT:	DR.BEI Sonic Electric Toothbrush	Model Name. :	DR.BEI S7
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2020-04-28
Test Mode :	High frequency/Max Load	Polarization :	Vertical
Test Power:	DC 5V		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	rterriarit
V	35.2512	17.57	16.53	34.10	40.00	-5.90	QP
V	61.1316	21.14	5.92	27.06	40.00	-12.94	QP
V	134.5592	18.46	12.50	30.96	43.50	-12.54	QP
V	251.1804	11.21	13.55	24.76	46.00	-21.24	QP
V	562.6624	7.04	22.22	29.26	46.00	-16.74	QP
V	771.4486	7.35	24.86	32.21	46.00	-13.79	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



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₽. BANDWIDTH TEST

4.1 TEST PROCEDURE

- 1). The transmitter output (antenna port) was connected to the spectrum analyzer in peak mode.
- 2). 20dB Bandwidth the resolution bandwidth of 1 kHz and the video bandwidth of 1 kHz were used.
- 3). Measured the spectrum width with power higher than 20dB below carrier.

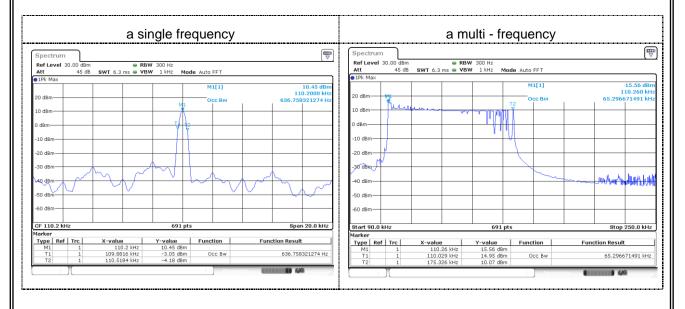
4.2 TEST SETUP



4.3 TEST RESULT

EUT:	DR.BEI Sonic Electric Toothbrush	Model Name. :	DR.BEI S7
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Mode :	Operating maxload
Test Power:	DC 5V		

99% Bandwidth- a single frequency (Hz)	F _L (kHz)	F _H (kHz)	Note:F _L >110kHz,F _H < 495kHz, compliance with the Restricted
636.758	110.26	175.326	bands requirements according to Part 15.205



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5. ANTENNA APPLICATION

5.1 Antenna Requirement

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible partyshall be used with the device.

5.2 Result

The EUT antenna is permanent attached antenna. It comply with the standard requirement.

END REPORT

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