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TCT通测检测 TESTING CENTRE TECHNOLOGY

1. Test Certification

Product:	BTE Hearing Aids	
Model No.:	HA-802	
Additional Model No.:	Primo UA401, Primo MA401, Primo UA801, Primo MA801, Primo US401, Primo US801, Primo EA401, Primo EA801, Primo RA401, Primo RA801	
Trade Mark:	NewSound	
Applicant:	Xiamen New Sound Technology Co,. Ltd	
Address:	No.13 of Xiang yue Road, Torch Hi-Tech Industrial, Development Zone, Xiang An District, Xiamen, China	(S)
Manufacturer:	Xiamen New Sound Technology Co,. Ltd	
Address:	No.13 of Xiang yue Road, Torch Hi-Tech Industrial, Development Zone, Xiang An District, Xiamen, China	
Date of Test:	Mar. 12, 2019 – Mar. 20, 2019	
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247 KDB 558074 D01 15.247 Meas Guidance v05r01	

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:	Rleo	Date:	Mar. 20, 2019	
eviewed By: 	Bery than	Date:	Mar. 21, 2019	_
oproved By:	TomSin	Date:	Mar. 21, 2019	6
	Tested By: eviewed By: 	Rieo eviewed By: Buy I I I I I I I I I I I I I I I I I I I	Rieo Date: Beryl Zhao Date:	Rleo eviewed By: Buy Than Date: Mar. 21, 2019 Beryl Zhao oproved By: TomSin Date: Mar. 21, 2019

Report No.: TCT190311E018



2. Test Result Summary

	ement		CFR 47 Se	ection		Result	t
Antenna re	quirement	§	15.203/§15	5.247 (c)	K)	PASS	R.
AC Power Lin Emis			§15.20	07		PASS	
Conducted F Pov			§15.247 (§2.104			PASS	
6dB Emissio	n Bandwidth		§15.247 (§2.104		(j)	PASS	
Power Spec	tral Density		§15.247	' (e)		PASS	
Band	Edge		1§5.247 §2.1051, §ź			PASS	
	(G)		S1E 20E/8	15 200			
	Emission	rement.	§15.205/§ʻ §2.1053, §			PASS	
lote: 1. PASS: Test ite 2. Fail: Test item 3. N/A: Test case		rement. requirement. the test object	§2.1053, §i	2.1057		PASS	
lote: 1. PASS: Test ite 2. Fail: Test item 3. N/A: Test case	em meets the requir does not meet the e does not apply to	rement. requirement. the test object	§2.1053, §i	2.1057		PASS	
lote: 1. PASS: Test ite 2. Fail: Test item 3. N/A: Test case	em meets the requir does not meet the e does not apply to	rement. requirement. the test object	§2.1053, §i	2.1057		PASS	
lote: 1. PASS: Test ite 2. Fail: Test item 3. N/A: Test case	em meets the requir does not meet the e does not apply to	rement. requirement. the test object	§2.1053, §i	2.1057		PASS C	



3. EUT Description

Product:	BTE Hearing Aids
Model No.:	HA-802
Additional Model No.:	Primo UA401, Primo MA401, Primo UA801, Primo MA801, Primo US401, Primo US801, Primo EA401, Primo EA801, Primo RA401, Primo RA801
Trade Mark:	NewSound
Hardware Version:	V1.0
Software Version:	2.2.3
BT Version:	V4.0
Operation Frequency:	2402MHz~2480MHz
Channel Separation:	2MHz
Number of Channel:	40
Modulation Technology:	GFSK
Antenna Type:	Ceramic Antenna
Antenna Gain:	0dBi
Power Supply:	Rechargeable Li-ion battery DC 3.7V
Remark:	All models above are identical in interior structure, electrical circuits and components, and just the appearance are different for the marketing requirement.

Operation Frequency each of channel

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency	
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz	
G)1	2404MHz) 11	2424MHz	21	2444MHz	31	2464MHz 🔾	
····				·		·		
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz	
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz	
Remark:	Remark: Channel 0, 19 & 39 have been tested.							





4. General Information

4.1. Test environment and mode

.0° 0.
% RH
10 mbar

Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 98.46%) with Fully-charged battery.

The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

4.2. 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.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
, 20	/		1	

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

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5. Facilities and Accreditations

5.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

- FCC Registration No.: 645098
 - Shenzhen Tongce Testing Lab

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

• IC - Registration No.: 10668A-1

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

5.2. Location

Shenzhen Tongce Testing Lab

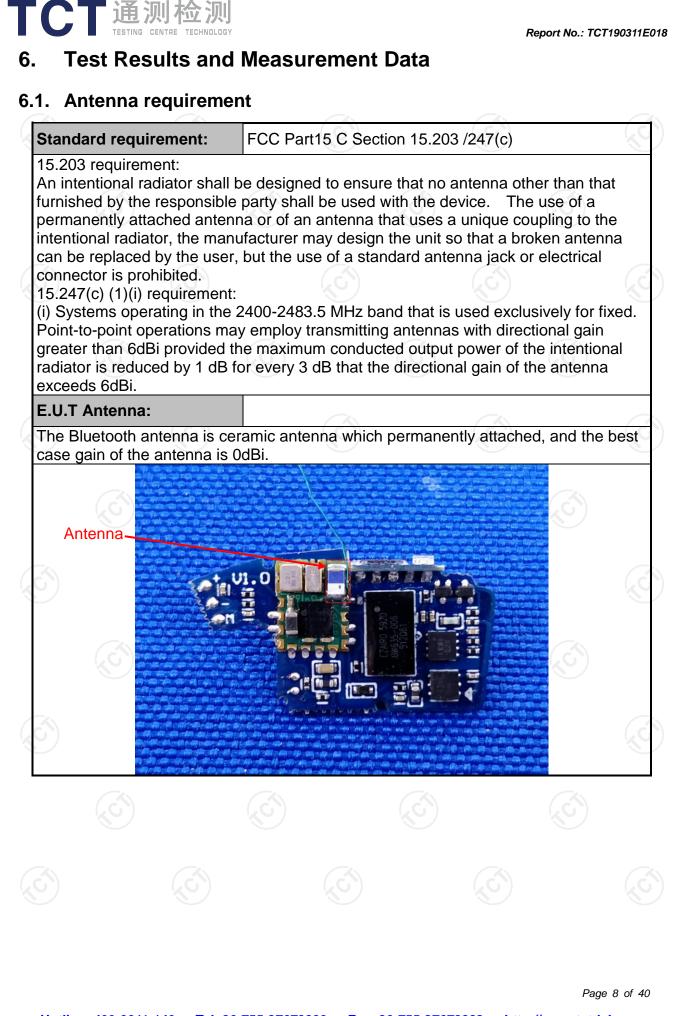
Address: 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China

TEL: +86-755-27673339

5.3. Measurement Uncertainty

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

Conducted Emission	
	±2.56dB
RF power, conducted	±0.12dB
Spurious emissions, conducted	±0.11dB
All emissions, radiated(<1G)	±3.92dB
All emissions, radiated(>1G)	±4.28dB
Temperature	±0.1°C
Humidity	±1.0%
	Spurious emissions, conducted All emissions, radiated(<1G) All emissions, radiated(>1G) Temperature





6.2. Conducted Emission

6.2.1. Test Specification

			G				
Test Requirement:	FCC Part15 C Section 15.207						
Test Method:	ANSI C63.10:2013 150 kHz to 30 MHz						
Frequency Range:							
Receiver setup:	RBW=9 kHz, VBW=30	RBW=9 kHz, VBW=30 kHz, Sweep time=auto					
	Frequency range	Limit (dBuV)				
	(MHz)	Quasi-peak	Áverage				
Limits:	0.15-0.5	66 to 56*	56 to 46*				
	0.5-5	56	46				
	5-30	60	50				
	Refere	nce Plane					
Test Setup:	E.U.T Adap Test table/Insulation pla Remark: E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Test table height=0.8m	ne	ter — AC power				
Test Mode:	Charging + Transmitting Mode						
Test Procedure:	 The E.U.T is connerimpedance stabilizy provides a 500hm/s measuring equipme The peripheral device power through a Licoupling impedance refer to the block photographs). Both sides of A.C. conducted interferent emission, the relative the interface cables 	zation network 50uH coupling im nt. ces are also conne ISN that provides with 50ohm tern diagram of the line are checke nce. In order to fir e positions of equ	(L.I.S.N.). This pedance for the ected to the main a 50ohm/50uH nination. (Please test setup and d for maximum nd the maximum ipment and all of				
	ANSI C63.10: 2013	on conducted me	asurement.				
Test Result:	ANSI C63.10: 2013 PASS	on conducted me	asurement.				

6.2.2. Test Instruments

TCT通测检测 TESTING CENTRE TECHNOLOGY

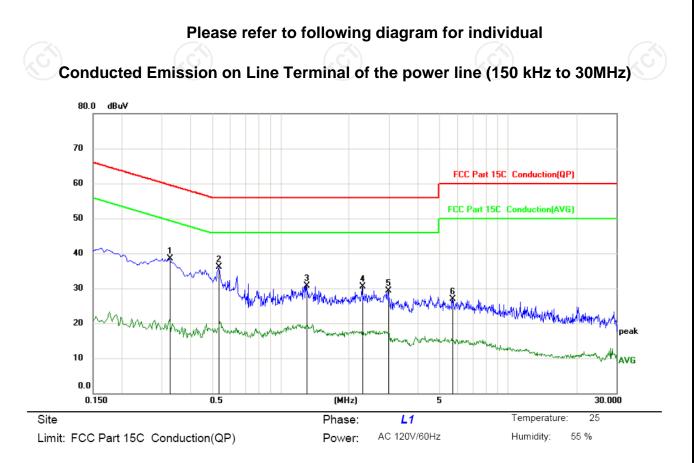
Conducted Emission Shielding Room Test Site (843)									
Equipment	Manufacturer	Model	Serial Number	Calibration Due					
Test Receiver	R&S	ESPI	101402	Jul. 17, 2019					
LISN	Schwarzbeck	NSLK 8126	8126453	Sep. 20, 2019					
Coax cable (9KHz-30MHz)	тст	CE-05	N/A	Sep. 16, 2019					
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A					

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

6.2.3. Test data



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.3255	28.36	10.13	38.49	59.57	-21.08	peak	
2 *	0.5370	25.97	10.13	36.10	56.00	-19.90	peak	
3	1.2975	20.67	10.12	30.79	56.00	-25.21	peak	
4	2.2875	20.29	10.12	30.41	56.00	-25.59	peak	
5	2.9760	19.11	10.12	29.23	56.00	-26.77	peak	
6	5.7120	16.81	10.13	26.94	60.00	-33.06	peak	

Note:

Freq. = Emission frequency in MHz

Reading level ($dB\mu V$) = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss

Measurement ($dB\mu V$) = Reading level ($dB\mu V$) + Corr. Factor (dB)

 $Limit (dB\mu V) = Limit stated in standard$

 $Margin (dB) = Measurement (dB\mu V) - Limits (dB\mu V)$

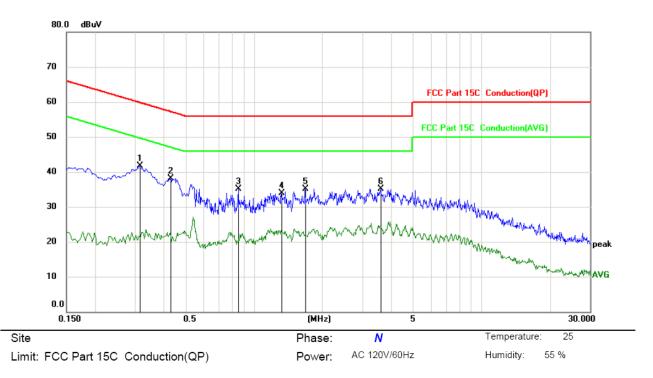
Q.P. =Quasi-Peak AVG =average

Any value more than 10dB below limit have not been specifically reported.

* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

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Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0.3165	31.49	10.13	41.62	59.80	-18.18	peak	
2	0.4290	28.06	10.13	38.19	57.27	-19.08	peak	
3	0.8565	24.99	10.12	35.11	56.00	-20.89	peak	
4	1.3200	23.86	10.12	33.98	56.00	-22.02	peak	
5	1.6800	25.02	10.12	35.14	56.00	-20.86	peak	
6	3.6105	24.88	10.13	35.01	56.00	-20.99	peak	

Note:

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> Freq. = Emission frequency in MHz Reading level $(dB\mu V)$ = Receiver reading Corr. Factor (dB) = Antenna factor + Cable loss Measurement $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB)Limit $(dB\mu V)$ = Limit stated in standard Margin (dB) = Measurement $(dB\mu V)$ - Limits $(dB\mu V)$ Q.P. =Quasi-Peak AVG =average Any value more than 10dB below limit have not been specifically reported.

* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

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6.3. Conducted Output Power

6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	KDB558074
Limit:	30dBm
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Refer to item 4.1
Test Procedure:	 The testing follows the Measurement Procedure of FCC KDB No. 558074 D01 15.247 Meas Guidance v05r01. Set spectrum analyzer as following: a) Set the RBW ≥ DTS bandwidth. b) Set VBW ≥ 3 x RBW. c) Set span ≥ 3 x RBW d) Sweep time = auto couple. e) Detector = peak. f) Trace mode = max hold. g) Allow trace to fully stabilize. h) Use peak marker function to determine the peak amplitude level.
Test Result:	PASS

6.3.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	R&S	FSU	200054	Sep. 20, 2019
RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Sep. 20, 2019
Antenna Connector	тст	RFC-01	N/A	Sep. 20, 2019

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

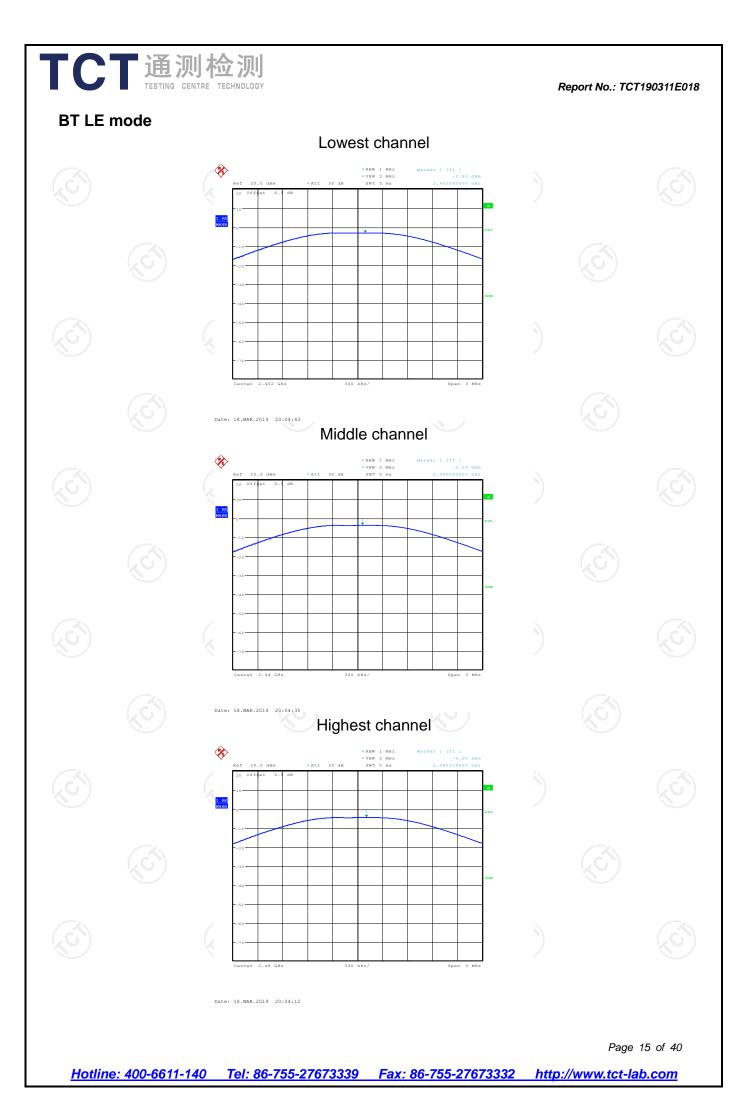
6.3.3. Test Data

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BT LE mode			
Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result
Lowest	-2.83	30.00	PASS
Middle	-3.59	30.00	PASS
Highest	-4.20	30.00	PASS

Test plots as follows:

	ots as follov							
							Page	14 of 40
<u>Hotline</u>	<u>e: 400-6611</u>	-140 Tel: 8	<u>36-755-27673</u>	<u>3339 Fax:</u>	<u>86-755-2767</u>	' <u>3332 http</u>	://www.tct-la	





6.4. Emission Bandwidth

6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 1	5.247 (a)(2)	K.
Test Method:	KDB558074		
Limit:	>500kHz)
Test Setup:		-• -	(etc)
	Spectrum Analyzer	EUT	0
Test Mode:	Refer to item 4.1		
Test Procedure:	Video bandwidth (VE	uidance v05r01. power setting and enabl pously. ent with the spectrum ar (RBW) = 100 kHz. Set BW) = 300 kHz. In order ement. The 6dB bandwickHz.	e the alyzer's the to make dth must
Test Result:	PASS		

6.4.2. Test Instruments

RF Test Room						
Equipment	Manufacturer	Model	Serial Number	Calibration Due		
Spectrum Analyzer	R&S	FSU	200054	Sep. 20, 2019		
RF cable (9kHz-26.5GHz)	🕥 тст	RE-06	N/A	Sep. 20, 2019		
Antenna Connector	ТСТ	RFC-01	N/A	Sep. 20, 2019		

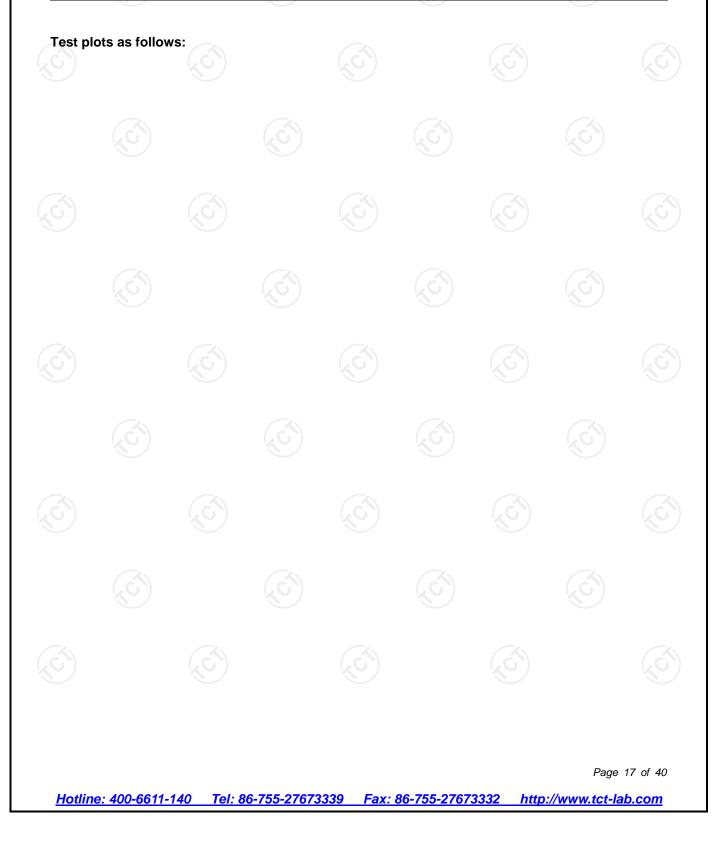
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

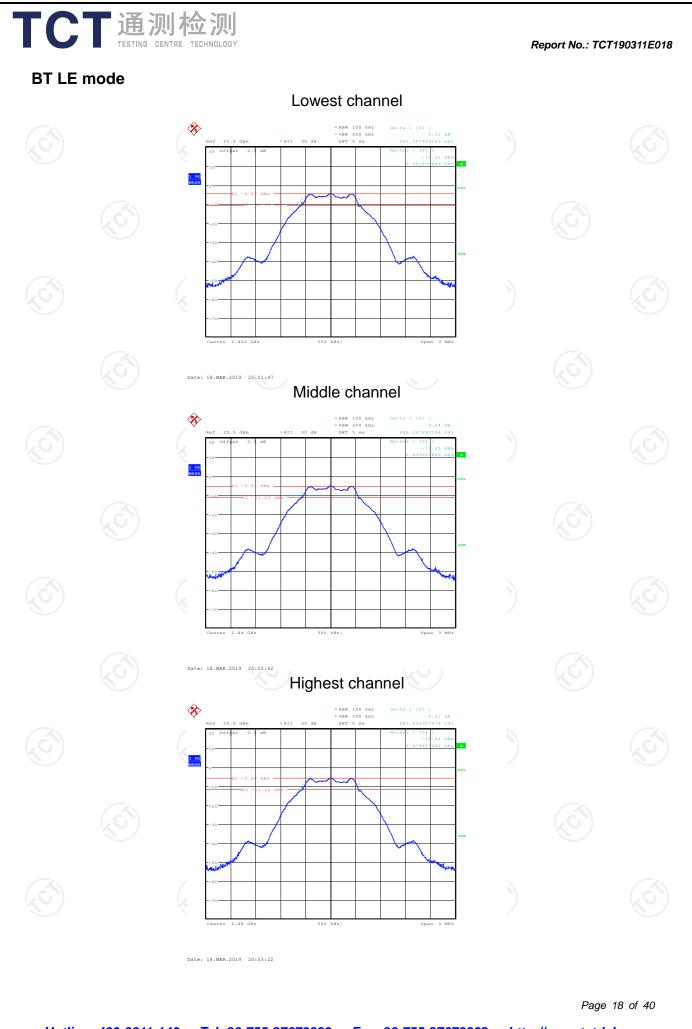




6.4.3. Test data

	Test shapped	6dB Emission Bandwidth (kHz)				
(Test channel	BT LE mode	Limit	Result		
0	Lowest	692.31	>500k	C		
	Middle	686.31	>500k	PASS		
	Highest	682.69	>500k			





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6.5. Power Spectral Density

6.6. Test Specification

Test Requirement: Test Method:	FCC Part15 C Section 15.247 (e)
Test Mathed	
Test wethod:	KDB558074
Limit:	The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.
Test Setup:	
	Spectrum Analyzer EUT
Test Mode:	Refer to item 4.1
Test Procedure:	 The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No. 558074 D01 15.247 Meas Guidance v05r01. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW) Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level. Measure and record the results in the test report.
Test Result:	PASS

6.6.1. Test Instruments

RF Test Room						
Equipment	Manufacturer	Model	Serial Number	Calibration Due		
Spectrum Analyzer	R&S	FSU	200054	Sep. 20, 2019		
RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Sep. 20, 2019		
Antenna Connector	тст	RFC-01	N/A	Sep. 20, 2019		

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

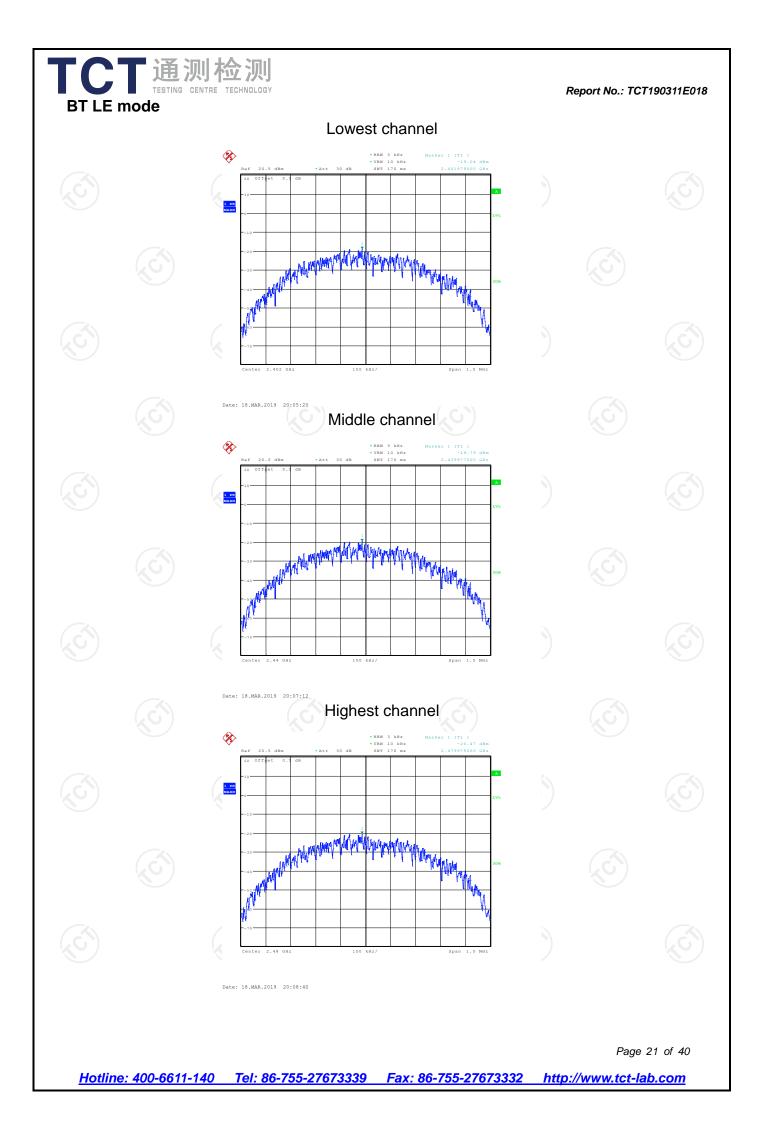
6.6.2. Test data

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Test shannel	Power Spectral Density (dBm/3kHz)				
Test channel	BT LE mode	Limit	Result		
Lowest	-19.04	8 dBm/3kHz	No.		
Middle	-19.79	8 dBm/3kHz	PASS		
Highest	-20.47	8 dBm/3kHz			

Test plots as follows:

Co Co	ots as follow	vs.						
Hotline	e: 400-6611-	- <u>140 Tel: 8</u>	36-755-27673	3339 Fax:	<u>86-755-2767</u>	<u>3332 http</u>	Page <mark>://www.tct-la</mark>	20 of 40 1 b.com



6.7. Conducted Band Edge and Spurious Emission Measurement

6.7.1. Test Specification

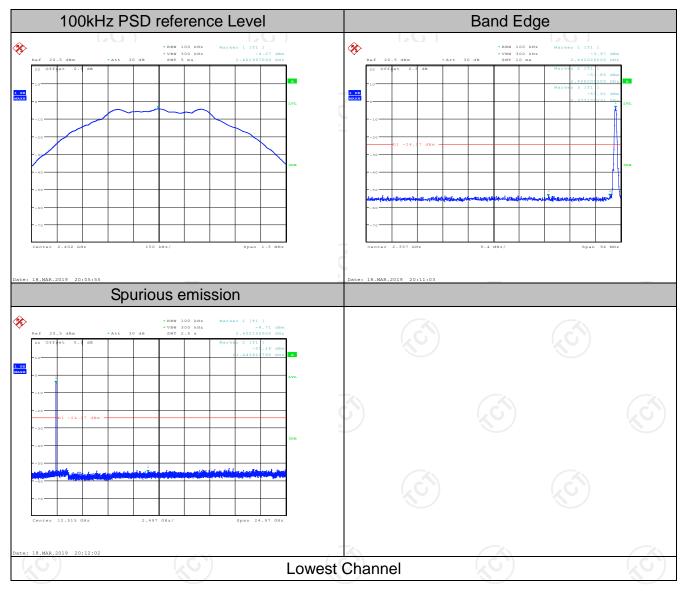
Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).
Test Setup:	
	Spectrum Analyzer EUT
Test Mode:	Refer to item 4.1
	 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the
Test Procedure:	 maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging ove a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). 4. Measure and record the results in the test report. 5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band

6.7.2. Test Instruments

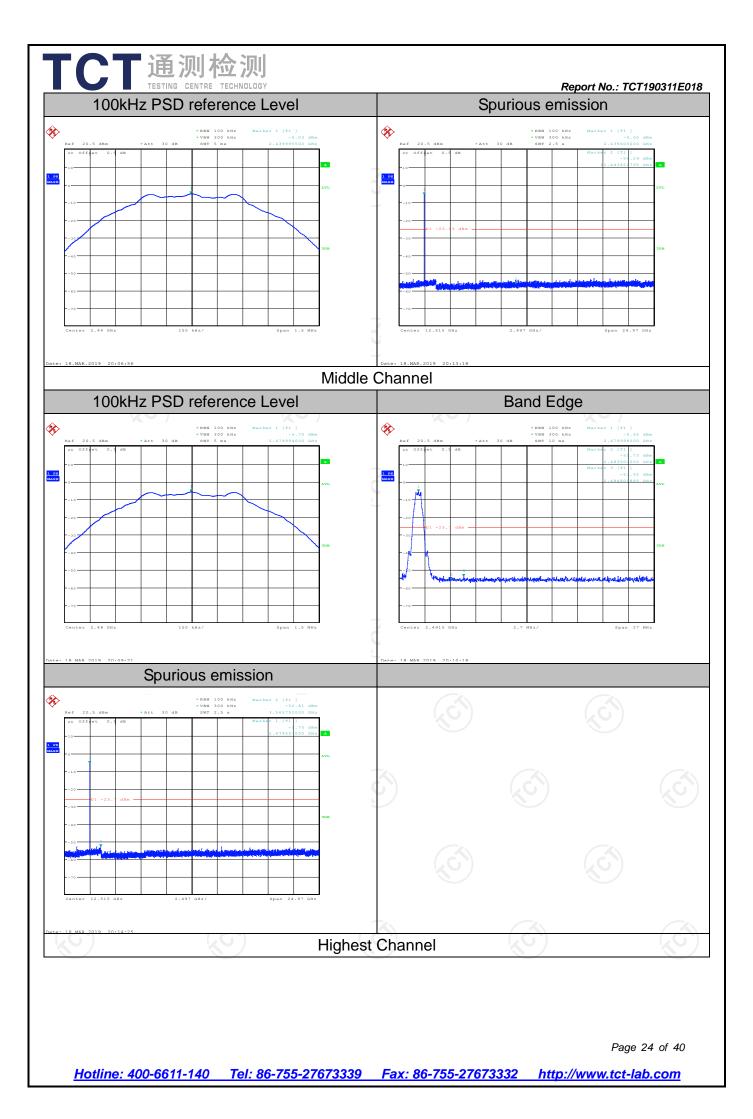
	RF Test Room											
Equipment	Manufacturer	Model	Serial Number	Calibration Due								
Spectrum Analyzer	R&S	FSU	200054	Sep. 20, 2019								
RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Sep. 20, 2019								
Antenna Connector	тст	RFC-01	N/A	Sep. 20, 2019								

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.7.3. Test Data



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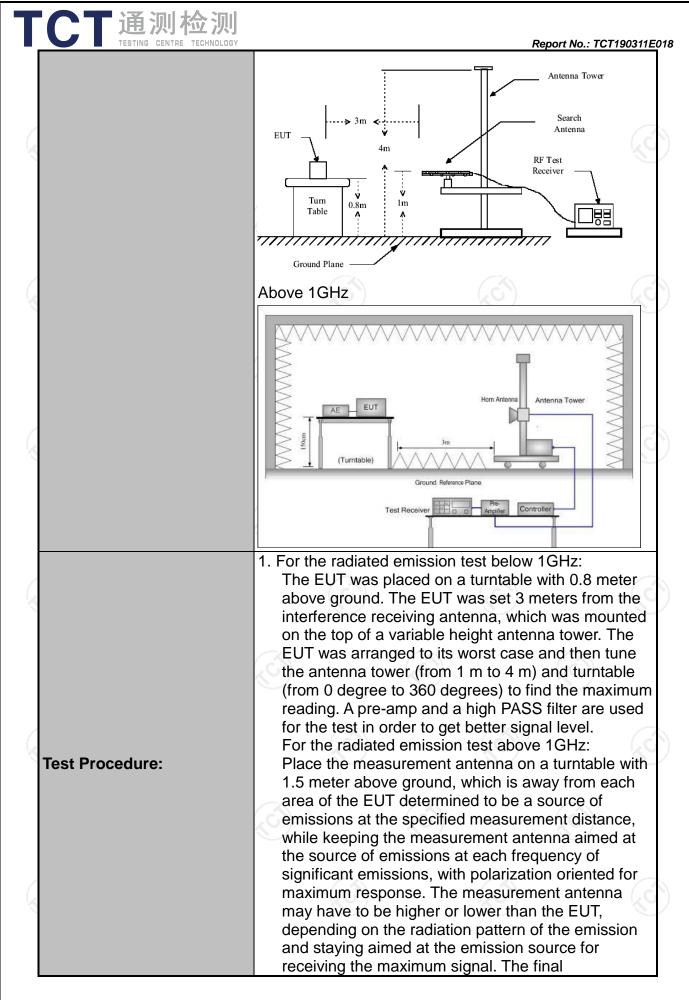




6.8.1. Test Specification

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Test Requirement:	FCC Part15	C Sectior	n 15.209 👌				
Test Method:	ANSI C63.10): 2013					
Frequency Range:	9 kHz to 25 (GHz	3			6	
Measurement Distance:	3 m	K	9		K	9	
Antenna Polarization:	Horizontal &	Vertical					
Operation mode:	Refer to item	14.1	(<u>(</u>)			
	Frequency 9kHz- 150kHz 150kHz-	Detector Quasi-peal Quasi-peal		VBW 1kHz 30kHz	Quas	Remark si-peak Value si-peak Value	
Receiver Setup:	30MHz 30MHz-1GHz Quasi-pea Above 1GHz Peak Peak		\mathbf{G}	300KHz 3MHz 10Hz	Quas P	si-peak Value eak Value erage Value	
	Frequen 0.009-0.4 0.490-1.7	190	Field Stre (microvolts 2400/F(I 24000/F(/meter) KHz)	Measurement Distance (meters 300		
	<u>1.705-3</u> <u>30-88</u> 88-216	60	<u>30</u> <u>100</u> 150		30 30 3 3 3		
Limit:	216-96 Above 9	0	200 500			3 3	
	Frequency		d Strength ovolts/meter)	Measurer Distan (meter	се	Detector	
	Above 1GHz	2	500 5000		R	Average Peak	
	For radiated		s below 30)MHz			
		Distance = 3m			Pre -/	Computer	
Test setup:	EUT Turn table						
	30MHz to 10		round Plane		L		



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	DLOGY Report No.: TCT190311E
	 measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission level will be reported. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=100 kHz for f < 1 GHz; VBW 梁BW; Sweep = auto; Detector function = peak; Trace = max hold; (3) Set RBW = 1 MHz, VBW= 3MHz for f 1 GHz for peak measurement. For average measurement. For average measurement. VBW = 10 Hz, when duty cycle is no less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Test mode:	Refer to section 4.1 for details
Test results:	PASS





6.8.2. Test Instruments

	Radiated Em	ission Test Site	e (966)			
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due		
Test Receiver	ROHDE&SCHW ARZ	ESIB7	100197	Jul. 17, 2019		
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ40	200061	Sep. 20, 2019		
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 16, 2019		
Pre-amplifier	HP	8447D	2727A05017	Sep. 16, 2019		
Loop antenna	ZHINAN	ZN30900A	12024	Oct. 20, 2019		
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 02, 2019		
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Oct. 20, 2019		
Horn Antenna	A-INFO	LB-180400-KF	J211020657	Sep. 16, 2019		
Antenna Mast	Keleto	RE-AM	N/A	N/A		
Coax cable (9KHz-1GHz)	тст	RE-low-01	N/A	Sep. 16, 2019		
Coax cable (9KHz-40GHz)	тст	RE-high-02	N/A	Sep. 16, 2019		
Coax cable (9KHz-1GHz)	тст	RE-low-03	N/A	Sep. 16, 2019		
Coax cable (9KHz-40GHz)	тст	RE-high-04	N/A	Sep. 16, 2019		
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A		

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.8.3. Test Data

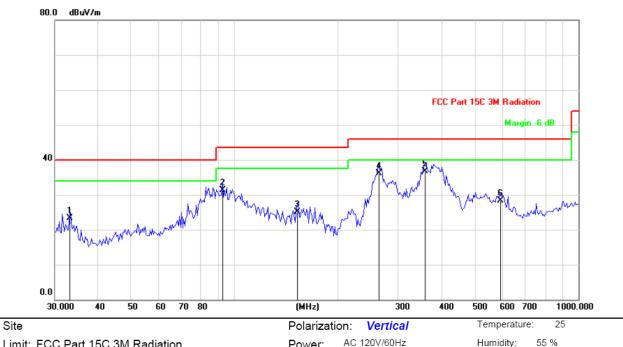


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
1		34.0451	30.22	-11.02	19.20	40.00	-20.80	QP			
2		89.1579	32.23	-10.93	21.30	43.50	-22.20	QP			
3		220.7241	41.25	-13.41	27.84	46.00	-18.16	QP			
4	*	261.2730	53.23	-12.19	41.04	46.00	-4.96	QP			
5	;	387.2565	45.32	-9.14	36.18	46.00	-9.82	QP			
6		542.6104	34.23	-7.06	27.17	46.00	-18.83	QP			

 Image: Sector Size of the sector s

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Vertical:



Limit: FCC Part 15C 3M Radiation

Power:	AC 120V/60Hz	

No.	Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
1		33.1015	34.23	-11.02	23.21	40.00	-16.79	QP			
2		92.3462	41.22	-9.84	31.38	43.50	-12.12	QP			
3		152.0902	41.33	-16.15	25.18	43.50	-18.32	QP			
4		263.1155	48.32	-12.13	36.19	46.00	-9.81	QP			
5	*	358.4497	46.33	-9.56	36.77	46.00	-9.23	QP			
6		594.5143	34.22	-5.92	28.30	46.00	-17.70	QP			

Note: 1. The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported

2. Measurements were conducted in all three channels (high, middle, low), and the worst case Mode (Lowest channel) was submitted only.

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Above 1GHz

Low chann	el: 2402 N	1Hz							
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Peak	on Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
2390	Н	45.24		-8.27	36.97		74	54	-17.03
4804	Н	47.51		0.66	48.17		74	54	-5.83
7206	Н	39.03		9.5	48.53		74	54	-5.47
	Н								
			(.6)		(G)			
2390	V	44.68		-8.27	36.41	<u> </u>	74	54	-17.59
4804	V	43.95		0.66	44.61		74	54	-9.39
7206	V	39.57		9.5	49.07		74	54	-4.93
×	V			(×				
C)		$(\mathbf{X}\mathbf{G})$			5)		(XC)		2

Middle channel: 2440 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Peak	A\ /	Peak limit (dBµV/m)		Margin (dB)
4880	ZGH)	44.67		0.99	45.66	<u>(abµ (,)</u>	74	54	-8.34
7320	С. И	37.54		9.87	47.41	<u> </u>	74	54	-6.59
	Н								
4880	V	45.33		0.99	46.32		74	54	-7.68
7320	V	38.16		9.87	48.03		74	54	-5.97
	V								

High channel: 2480 MHz

Froqueney		Peak	AV	Correction	Emissic	on Level	Peak limit	AV limit	Margin	
Frequency (MHz)	H/V	reading (dBµV)	reading (dBµV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)		(dBµV/m)	(dB)	
2483.5	Н	47.15		-7.83	39.32		74	54	-14.68	
4960	Н	48.75		1.33	50.08		74	54	-3.92	
7440	H	41.03		10.22	51.25		74	54	-2.75	
<u> </u>	Н			()		· · · · ·			
2483.5	V	47.61		-7.83	39.78		74	54	-14.22	
4960	V	49.92		1.33	51.25		74	54	-2.75	
7440	V	38.19		10.22	48.41	$\langle G^{-} \rangle$	74	54	-5.59	
	V									

Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss - Pre-amplifier

2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)

3. The emission levels of other frequencies are very lower than the limit and not show in test report.

4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.

5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

