RF TEST REPORT



Report No.: 15070226-FCC-R1

Supersede Report No.: N/A

Applicant	KINGTA TECHNOLOGY CO.,LIMITED		
Product Name	Bluetooth Speaker		
Model No.	8034423		
	SPBW103	5 B18 20510 , 20511, 20512,	Extreme Pump
Serial No.	H2O ,Esca	pe, UB-SPB15, BT-	
Senai no.	018MW,KE	3102H,B1,B3D,B6H,B9H,B25	,B26,B28 ,B30, B38,B39,
	B55,B52,B	58,B68 ,YA3300,WS-4014,BI	unote 2.0,NU-024, 3134
Test Standard	FCC Part 1	5.247: 2014, ANSI C63.10: 2	009
Test Date	April 9 to April 14, 2015		
Issue Date	April 15, 2015		
Test Result	Pass Fail		
Equipment complied with the specification			
Equipment did no	t comply wit	h the specification	
Wiky. Jam Chris You			
Wiky Jam Chris Yo		Chris You	
Test Engineer		Checked By	
This test report may be reproduced in full only			
Test result presented in this test report is applicable to the tested sample only			

SIEMIC (SHENZHEN-CHINA) LABORATORIES

Zone A, Floor 1, Building 2 Wan Ye Long Technology Park South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China 518108 Phone: +86 0755 2601 4629801 Email: China@siemic.com.cn



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Laboratories Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

•	
Country/Region	Scope
USA	EMC, RF/Wireless, SAR, Telecom
Canada	EMC, RF/Wireless, SAR, Telecom
Taiwan	EMC, RF, Telecom, SAR, Safety
Hong Kong	RF/Wireless, SAR, Telecom
Australia	EMC, RF, Telecom, SAR, Safety
Korea	EMI, EMS, RF, SAR, Telecom, Safety
Japan	EMI, RF/Wireless, SAR, Telecom
Singapore	EMC, RF, SAR, Telecom
Europe	EMC, RF, SAR, Telecom, Safety

Accreditations for Conformity Assessment



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1. Report Revision History

Report No.	Report Version	Description	Issue Date
15070226-FCC-R1	NONE	Original	April 15, 2015

2. Customer information

Applicant Name	KINGTA TECHNOLOGY CO.,LIMITED	
Applicant Add	FLOOR 4, BUILDING 9, FUTING INDUSTRIAL	
	ZONE,ZHUCUN,GUANLAN,BAO' AN ,SHENZHEN	
Manufacturer	KINGTA TECHNOLOGY CO.,LIMITED	
Manufacturer Add	FLOOR 4, BUILDING 9, FUTING INDUSTRIAL	
	ZONE,ZHUCUN,GUANLAN,BAO' AN ,SHENZHEN	

3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES	
	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park	
Lab Address	South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong	
	China 518108	
FCC Test Site No.	718246	
IC Test Site No.	4842E-1	
Test Software	Radiated Emission Program-To Shenzhen v2.0	



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4. Equipment under Test (EUT) Information Description of EUT: **Bluetooth Speaker** Main Model: 8034423 SPBW1035 B18 20510, 20511, 20512, Extreme Pump H2O, Escape, UB-SPB15, BT-018MW,KB102H,B1,B3D,B6H,B9H,B25,B26,B28,B30, Serial Model: B38,B39, B55,B52,B58,B68 ,YA3300,WS-4014,Blunote 2.0,NU-024, 3134 Date EUT received: April 7, 2015 Test Date(s): April 9 to April 14, 2015 Equipment Category : DSS Antenna Gain: Bluetooth: 0 dBi Type of Modulation: Bluetooth: GFSK, π /4DQPSK, 8DPSK RF Operating Frequency (ies): Bluetooth: 2402-2480 MHz GFSK: -7.976 dBm Max. Output Power: Number of Channels: Bluetooth: 79CH Port: Power Port, Earphone Port, USB Port Battery: Model: ZKH523450AR Input Power: Spec: 3.7V 1000mAh Limited charger voltage: 4.2V Trade Name : N/A



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GPRS/EGPRS Multi-slot class N/A

2AEKUB29



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5. Test Summary

The product was tested in accordance with the following specifications.

All testing has been performed according to below product classification:

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliance
§15.247(a)(1)	Channel Separation	Compliance
§15.247(a)(1)	20 dB Bandwidth	Compliance
§15.247(b)(1)	Peak Output Power	Compliance
§15.247(a)(1)(iii)	Number of Hopping Channel	Compliance
§15.247(a)(1)(iii)	Time of Occupancy (Dwell Time)	Compliance
§15.247(d)	Band Edge	Compliance
§15.207(a)	AC Line Conducted Emissions	Compliance
§15.205, §15.209, §15.247(d)	Radiated Emissions	Compliance

Measurement Uncertainty

Emissions		
Test Item	Description	Uncertainty
Band Edge and Radiated Spurious Emissions	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	+5.6dB/-4.5dB
-	-	-



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6. Measurements, Examination And Derived Results

6.1 Antenna Requirement

Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

a. Antenna must be permanently attached to the unit.

b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The EUT has 1 antenna: A permanently attached PIFA antenna for Bluetooth, the gain is 0 dBi The antenna meets up with the ANTENNA REQUIREMENT.

Result: Compliance.



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6.2 Channel Separation

Temperature	25°C
Relative Humidity	53%
Atmospheric Pressure	1014mbar
Test date :	March 13, 2015
Tested By :	Wiky Jam

Spec	Item	Item Requirement Applicable			
S 45 247(a)(4)		Channel Separation < 20dB BW and 20dB BW <			
	a)	25KHz; Channel Separation Limit=25KHz	V		
§ 15.247(a)(1)	a)	Chanel Separation < 20dB BW and 20dB BW >			
		25kHz ; Channel Separation Limit=2/3 20dB BW			
Test Setup	Spectrum Analyzer EUT				
	The te	est follows FCC Public Notice DA 00-705 Measurement	Guidelines.		
	Use the following spectrum analyzer settings:				
	-	The EUT must have its hopping function enabled			
	 Span = wide enough to capture the peaks of two adjacent 				
	channels				
	 Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span 				
Test Procedure	 Video (or Average) Bandwidth (VBW) ≥ RBW 				
	- Sweep = auto				
	 Detector function = peak 				
	- Trace = max hold				
	- Allow the trace to stabilize. Use the marker-delta function to				
	determine the separation between the peaks of the adjacent				
		channels. The limit is specified in one of the subparagr	aphs of this		
		Section. Submit this plot.			



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Remar	ŕk				
Resul	t	Pass	Fail		
Test Data	Yes		N/A		
Test Plot Ves (See below)		□ _{N/A}			

Channel Separation measurement result

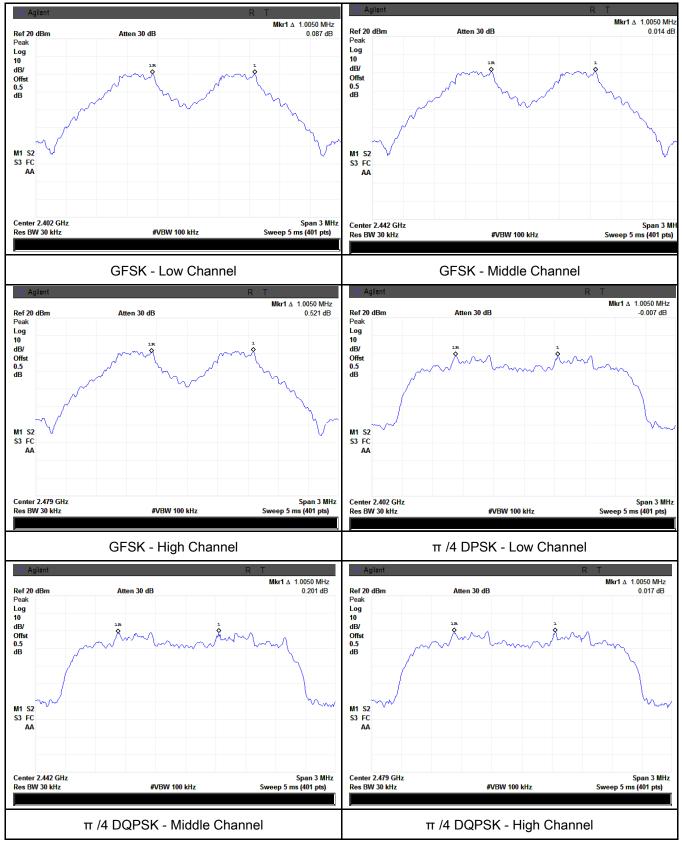
Type/ Modulation	СН	CH Freq (MHz)	CH Separation (MHz)	Limit (MHz)	Result
	Low Channel	2402	1.005	0.693	Daaa
	Adjacency Channel	2403	1.005	0.693	Pass
CH Separation	Mid Channel	2440	1 005	0.690	Daaa
GFSK	Adjacency Channel	2441	1.005	0.689	Pass
	High Channel	2480	4.005	0.004	Dees
	Adjacency Channel	2479	1.005	0.684	Pass
	Low Channel	2402	4.005	0.000	Dees
	Adjacency Channel	2403	1.005	0.693	Pass
CH Separation	Mid Channel	2440	4.005	0.005	Dees
π /4 DQPSK	Adjacency Channel	2441	1.005	0.865	Pass
	High Channel	2480	1.005	0.965	Daaa
	Adjacency Channel	2479	1.005	0.865	Pass
	Low Channel	2402	4.005	0.070	Dees
	Adjacency Channel	2403	1.005	0.870	Pass
CH Separation	Mid Channel	2440	4.005	0.070	Dese
8DPSK	Adjacency Channel	2441	1.005	0.870	Pass
	High Channel	2480	4.005	0.070	Dess
	Adjacency Channel	2479	1.005	0.870	Pass



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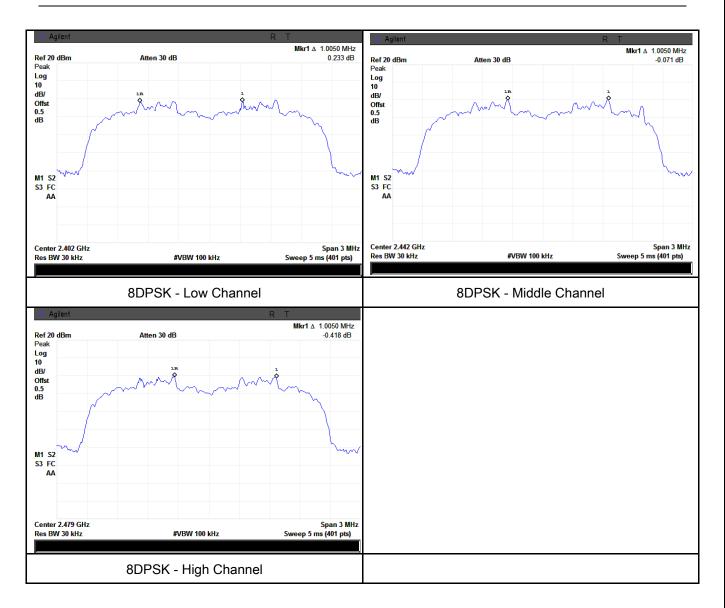
Test Plots

Channel Separation measurement result





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6.3 20dB Bandwidth

Temperature	25°C
Relative Humidity	53%
Atmospheric Pressure	1014mbar
Test date :	March 13, 2015
Tested By :	Wiky Jam

Spec	Item	Item Requirement Applicable				
§15.247(a)	a)	Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum	K			
(1)	- /	of 25 kHz or the 20 dB bandwidth of the hopping				
Test Setup		channel, whichever is greater.				
		st follows FCC Public Notice DA 00-705 Measurement Gu e following spectrum analyzer settings:	uidelines.			
	-	Span = approximately 2 to 3 times the 20 dB bandwidth,	centered on			
		a hopping channel				
	-	- RBW ≥ 1% of the 20 dB bandwidth				
	- VBW ≥ RBW					
Test	- Sweep = auto					
Procedure	- Detector function = peak					
Tiocedure	- Trace = max hold.					
	- The EUT should be transmitting at its maximum data rate. Allow the					
	trace to stabilize. Use the marker-to-peak function to set the marker					
	to the peak of the emission. Use the marker-delta function to					
	measure 20 dB down one side of the emission. Reset the marker-					
		delta function, and move the marker to the other side of the	he			
		emission, until it is (as close as possible to) even with the	reference			



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marker level. The marker-delta reading at this point is the 20 dB bandwidth of the emission. If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation. The limit is specified in one of the subparagraphs of this Section. Submit this plot(s).

Remark		
Result	Pass	E Fail

Test Data	Yes
Test Plot	Yes (See below)

□_{N/A}

Measurement result

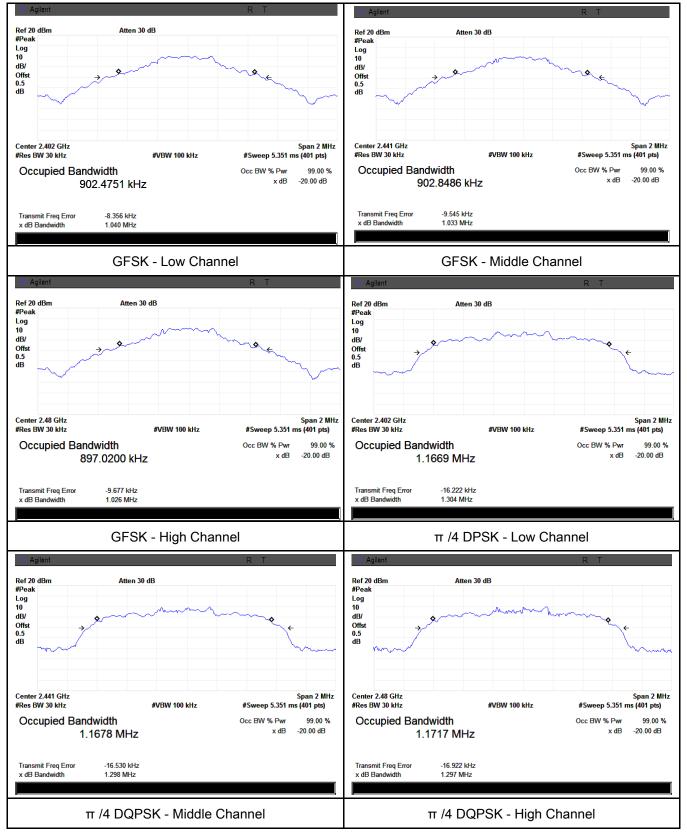
Modulation	СН	CH Freq	20dB Bandwidth
wodulation		(MHz)	(MHz)
	Low	2402	1.040
GFSK	Mid	2441	1.033
	High	2480	1.026
	Low	2402	1.304
π /4 DQPSK	Mid	2441	1.298
	High	2480	1.297
8-DPSK	Low	2402	1.306
	Mid	2441	1.305
	High	2480	1.305



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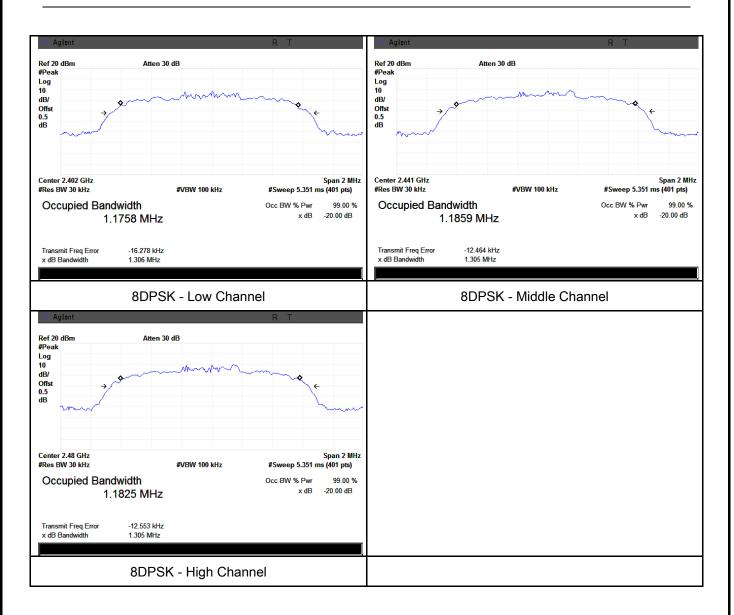
20dB Bandwidth measurement result





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6.4 Peak Output Power

Temperature	25°C
Relative Humidity	53%
Atmospheric Pressure	1014mbar
Test date :	March 13, 2015
Tested By :	Wiky Jam

Spec	Item	Requirement	Applicable		
	a)	a) FHSS in 2400-2483.5MHz with ≥ 75 channels: ≤ 1 Watt			
	b)	FHSS in 5725-5850MHz: ≤ 1 Watt			
§15.247(b)	c)	For all other FHSS in the 2400-2483.5MHz band: \leq 0.125 Watt.	K		
(2)	d)	FHSS in 902-928MHz with ≥ 50 channels: ≤ 1 Watt			
	e)				
	f)	DSSS in 902-928MHz, 2400-2483.5MHz, 5725- 5850MHz: ≤ 1 Watt			
Test Setup	Spectrum Analyzer EUT				
Test Procedure	 The test follows FCC Public Notice DA 00-705 Measurement Guidelines. Use the following spectrum analyzer settings: Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel RBW > the 20 dB bandwidth of the emission being measured VBW ≥ RBW Sweep = auto Detector function = peak Trace = max hold 				

-				
SIEMIC			Test Report	15070226-FCC-R1
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		- Use the m emission. above reg specified i	The indicated lev arding external a n one of the subp ak responding po	nction to set the marker to the peak of the vel is the peak output power (see the note ttenuation and cable loss). The limit is paragraphs of this Section. Submit this wer meter may be used instead of a
Remark				
Result Pass			E Fail	
Test Data	₩ Y	Yes	N/A	
Test Plot Yes (See below)			□ _{N/A}	

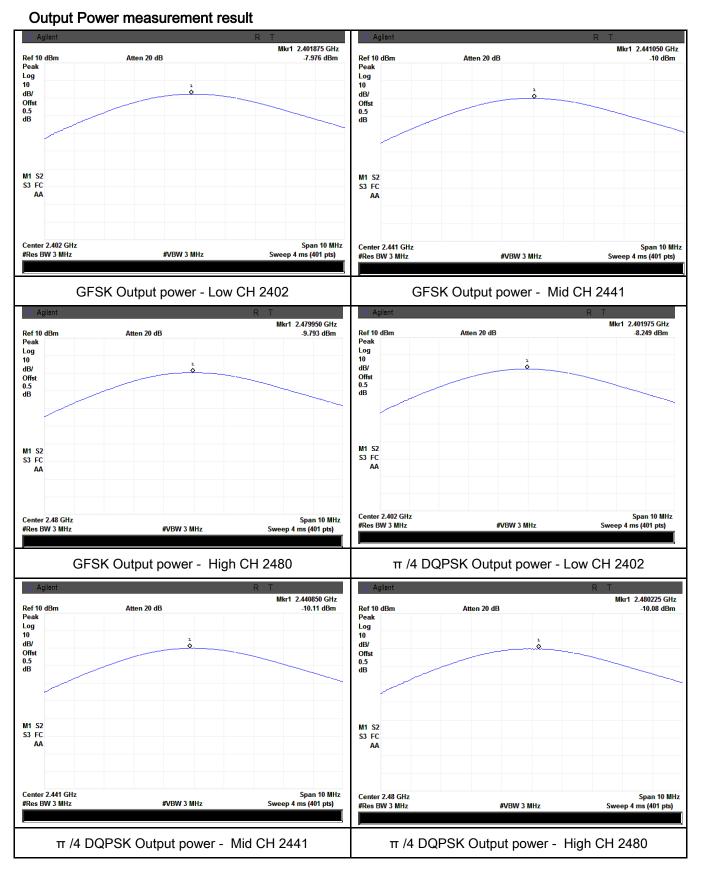
Peak Output Power measurement result

Туре	Modulation	СН	Freq (MHz)	Conducted Power (dBm)	Limit (mW)	Result
		Low	2402	-7.976	125	Pass
	GFSK π /4 DQPSK	Mid	2441	-10.0	125	Pass
		High	2480	-9.793	125	Pass
Outrout		Low	2402	-8.249	125	Pass
Output		Mid	2441	-10.11	125	Pass
power		High	2480	-10.08	125	Pass
		Low	2402	-8.23	125	Pass
	8-DPSK	Mid	2441	-10.16	125	Pass
		High	2480	-10.04	125	Pass



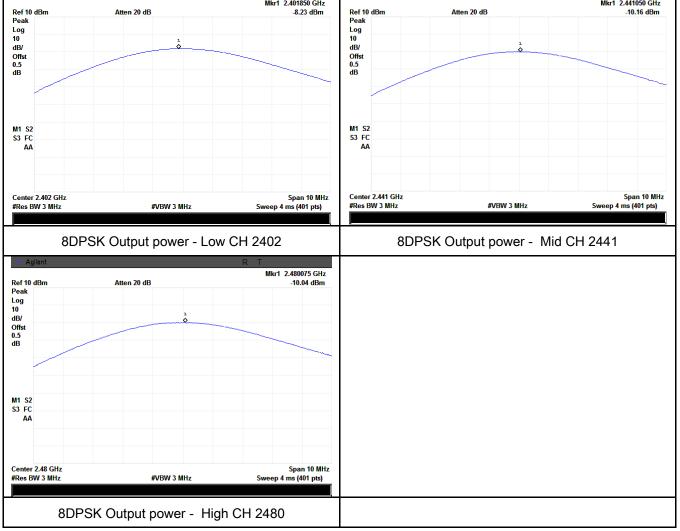
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Test Plots





MIC			
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	R T	Agilent	RT
	Mkr1 2.401850 GHz		Mkr1 2.441050 GHz





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6.5 Number of Hopping Channel

Temperature	21°C	
Relative Humidity	56%	
Atmospheric Pressure	1017mbar	
Test date :	March 16, 2015	
Tested By :	Wiky Jam	

Spec	Item Requirement Applicabl					
§15.247(a) (1)(iii)	a) FHSS in 2400-2483.5MHz ≥ 15 channels					
Test Setup		Spectrum Analyzer EUT				
Test Procedure	Spectrum Analyzer EUT The test follows FCC Public Notice DA 00-705 Measurement Guidelines. Use the following spectrum analyzer settings: The EUT must have its hopping function enabled. - Span = the frequency band of operation - RBW ≥ 1% of the span - VBW ≥ RBW - Sweep = auto - Detector function = peak - Trace = max hold - Allow trace to fully stabilize. - It may prove necessary to break the span up to sections, in order to clearly show all of the hopping frequencies. The limit is specified in one of the subparagraphs of this Section. Submit this plot(s).					
Remark						
Result	🗹 Pas	s Fail				
	 ✓ Yes ✓ Yes (See below) ✓ N/A 					



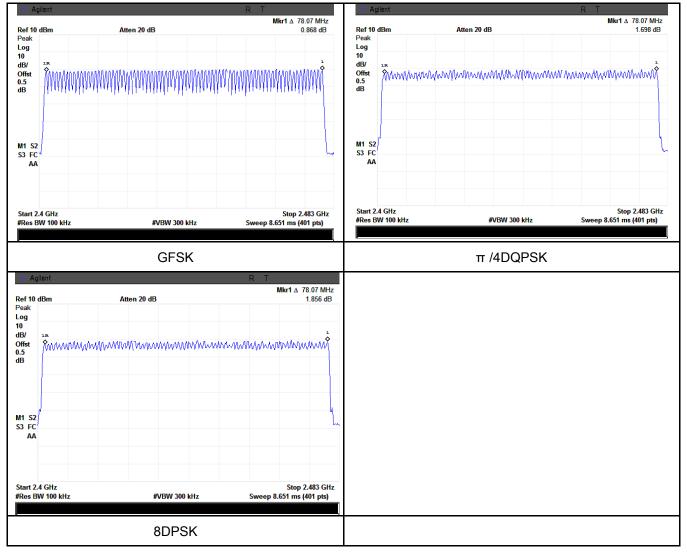
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Number of Hopping Channel measurement result

Туре	Modulation	Frequency Range	Number of Hopping Channel	Limit
Number of	GFSK	2400-2483.5	79	15
Number of Hopping Channel	π /4 DQPSK	2400-2483.5	79	15
	8-DPSK	2400-2483.5	79	15

Test Plots

Number of Hopping Channels measurement result





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6.6 Time of Occupancy (Dwell Time)

Temperature	21°C
Relative Humidity	56%
Atmospheric Pressure	1017mbar
Test date :	March 16, 2015
Tested By :	Wiky Jam

Spec	Item	Requirement	Applicable
§15.247(a) (1)(iii)	a) Dwell Time < 0.4s		Y
Test Setup	Spectrum Analyzer EUT		
	The te	st follows FCC Public Notice DA 00-705 Measurement G	Guidelines.
	Use th	e following spectrum analyzer	
	-	Span = zero span, centered on a hopping channel	
	-	RBW = 1 MHz	
Test	- VBW ≥ RBW		
Procedure	rocedure - Sweep = as necessary to capture the entire dwell time per hop		per hopping
channel		channel	
- Detector function = peak			
- Trace = max hold			
- use the marker-delta function to determine the dwell time		e	
Remark			
Result	Pas	ss Fail	
_		_	
Test Data	Yes	N/A	
Test Plot	∕es (See	below)	



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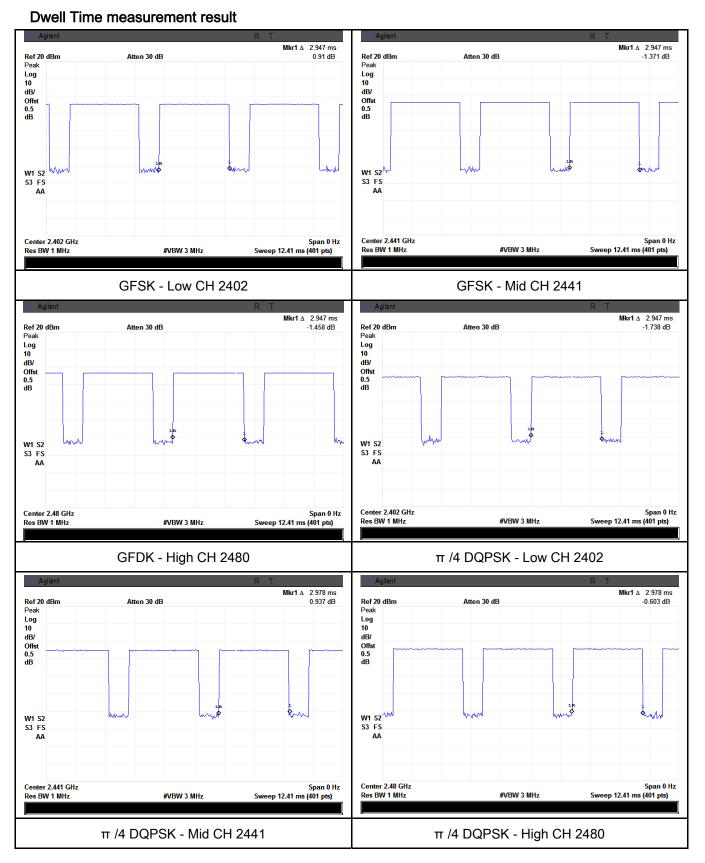
Dwell Time measurement result

Туре	Modulation	СН	Pulse Width (ms)	Dwell Time (ms)	Limit (ms)	Result
		Low	2.947	314.3467	400	Pass
	GFSK	Mid	2.947	314.3467	400	Pass
		High	2.947	314.3467	400	Pass
		Low	2.947	314.3467	400	Pass
Dwell Time	π /4 DQPSK	Mid	2.978	317.6533	400	Pass
		High	2.978	317.6533	400	Pass
		Low	2.947	314.3467	400	Pass
	8-DPSK	Mid	2.947	314.3467	400	Pass
		High	2.947	314.3467	400	Pass
Note: Dwell time=Pulse Time (ms) × (1600 ÷ 6 ÷ 79) ×31.6						



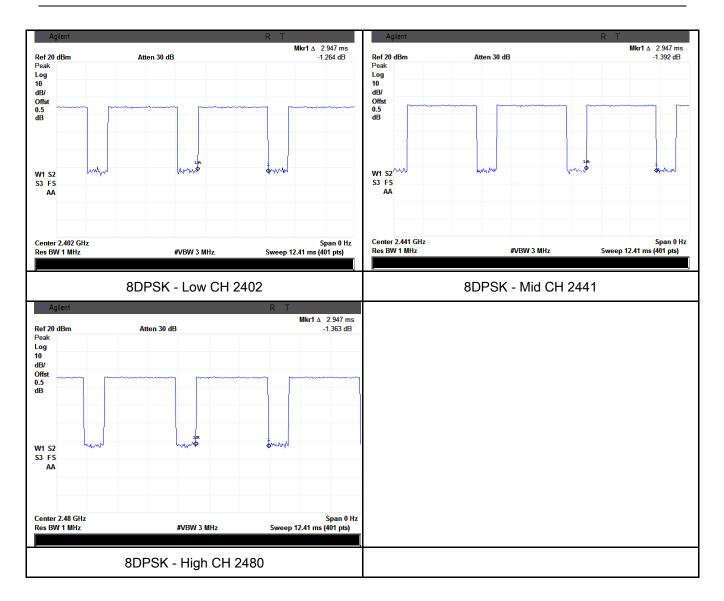
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6.7 Band Edge

Temperature	24°C
Relative Humidity	52%
Atmospheric Pressure	1013mbar
Test date :	March 12, 2015
Tested By :	Wiky Jam

Spec	Item	tem Requirement Applicable			
§15.247(a) (1)(iii)	a)	 In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB a) below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. 			
Test Setup	Ant. Tower L-4m Variable Support Units Ground Plane Test Receiver				
Test Procedure	 The test follows FCC Public Notice DA 00-705 Measurement Guidelines. Radiated Method Only 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator. 2. Position the EUT without connection to measurement instrument. Put it on the Rotated table and turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range. 3. First, set both RBW and VBW of spectrum analyzer to 100 kHz with a 				

2		
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the emission a. The resolu- analyzer is 1 b. The resolu- video bandw frequency ab c. The resolu- video bandw below at frequ- 4. Measure t	of EUT, if pass th ution bandwidth an 20 kHz for Quasiy ution bandwidth of ridth is 3MHz with pove 1GHz. ution bandwidth of ridth is 10Hz with F quency above 1GH he highest amplitu	luding 100kHz bandwidth from band edge, check en set Spectrum Analyzer as below: ind video bandwidth of test receiver/spectrum Peak detection at frequency below 1GHz. test receiver/spectrum analyzer is 1MHz and Peak detection for Peak measurement at test receiver/spectrum analyzer is 1MHz and the Peak detection for Average Measurement as Iz. ide appearing on spectral display and set it as a with marking the highest point and edge
- 5. Repeat ab	ove procedures u	ntil all measured frequencies were complete.
Remark		
Result Pass	E Fail	
_	_	
Test Data Yes	₩N/A	
Test Plot Yes (See below)	□ _{N/A}	

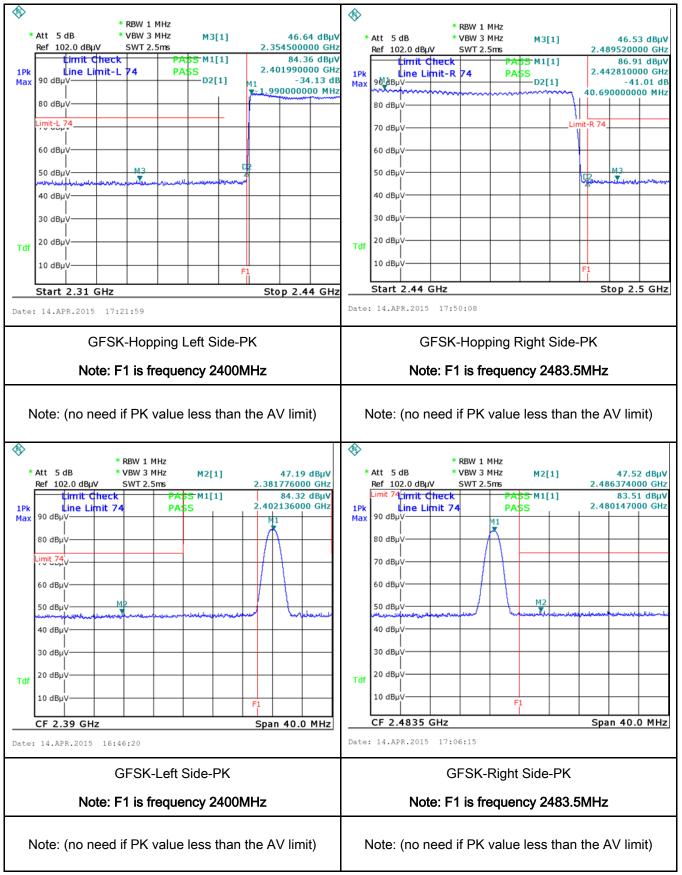


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Test Plots

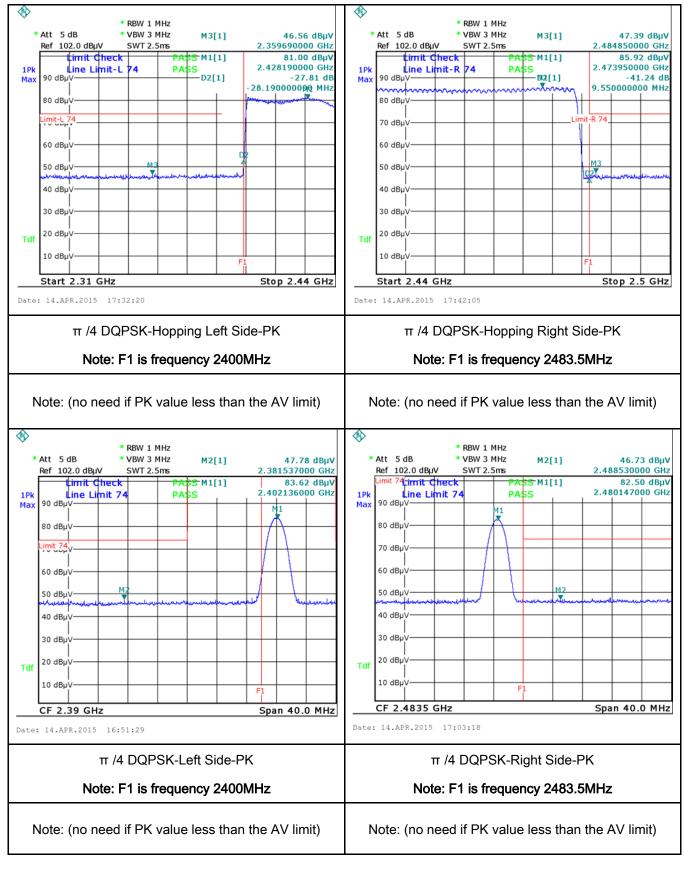






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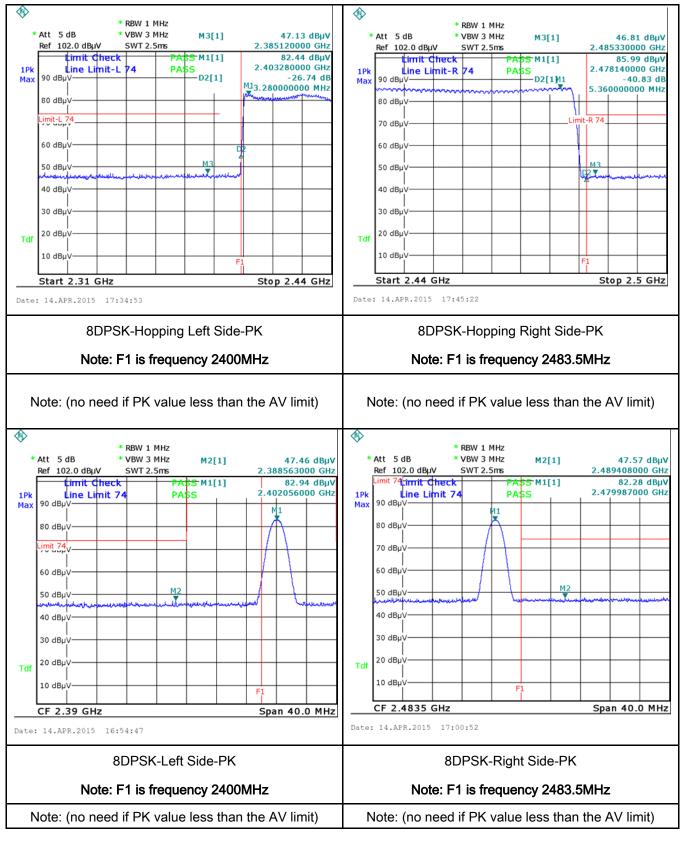
 π /4 DQPSK Mode:





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8-DPSK Mode:





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6.8 AC Power Line Conducted Emissions

Temperature	21°C
Relative Humidity	56%
Atmospheric Pressure	1017mbar
Test date :	March 16, 2015
Tested By :	Wiky Jam

Spec	Item	Requirement	Applicable			
47CFR§15. 207, RSS210 (A8.1)	a)	For Low-power radio-fr connected to the public voltage that is conducted frequency or frequencied not exceed the limits in [mu]H/50 ohms line imp lower limit applies at th Frequency ranges	V			
(A0.1)		(MHz)	QP	Average		
		0.15 ~ 0.5	66 - 56	56 - 46		
		0.5 ~ 5	56	46		
		5 ~ 30	60	50		
Test Setup	Vertical Ground Reference Plane UT 40 cm LISN LISN LISN Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm					
	from other units and other metal planes support units. 1. The EUT and supporting equipment were set up in accordance with the requirements of					
	the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table.					
Procedure	2. The power supply for the EUT was fed through a 50W/50mH EUT LISN, connected to					
	filtered mains.					
		 The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable. 				
	1	other supporting equipm				

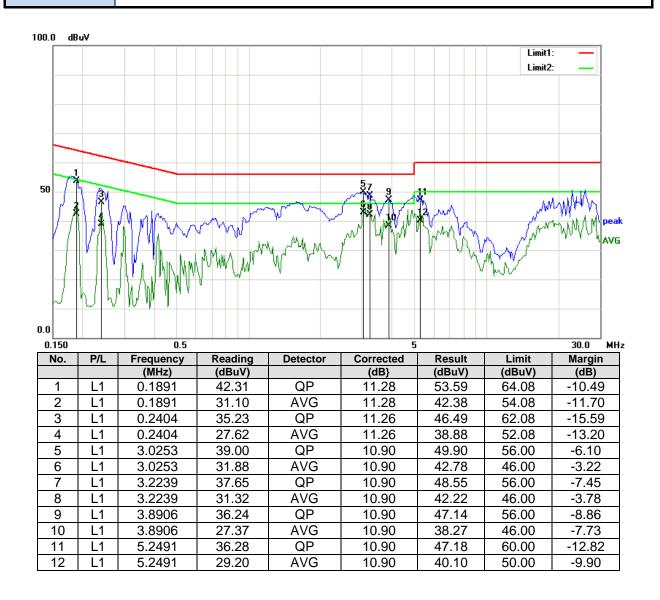
		Test Report Page	15070226-FCC-R1 34 of 52		
YOUR CHOICE FOR- TCB P	 The EUT was switched on and allowed to warm up to its normal operating condition. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power) over the required frequency range using an EMI test receiver. High peaks, relative to the limit line, The EMI test receiver was then tuned to the selected frequencies and the necessary measurements made with a receiver bandwidth setting of 10 kHz. Step 7 was then repeated for the LIVE line (for AC mains) or DC line (for DC power). 				
Remark					
Result	Pass F	Fail			
	Yes (See below)	N/A N/A			



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Test Mode:

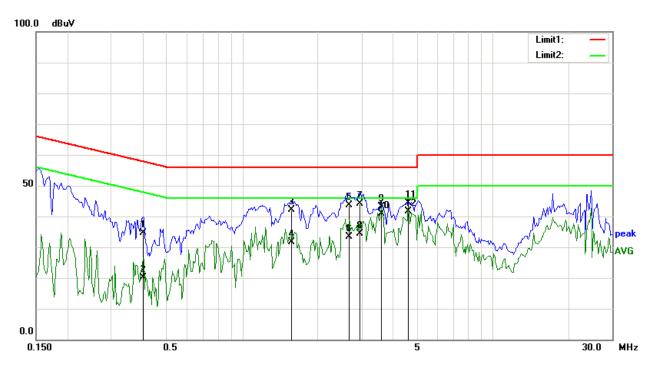
Transmitting Mode





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Test Mode:Transmitting Mode



No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	Ν	0.4039	34.67	QP	0.00	34.67	57.77	-23.10
2	Ν	0.4039	20.14	AVG	0.00	20.14	47.77	-27.63
3	Ν	1.5684	42.12	QP	0.00	42.12	56.00	-13.88
4	Ν	1.5684	31.57	AVG	0.00	31.57	46.00	-14.43
5	Ν	2.6695	43.75	QP	0.00	43.75	56.00	-12.25
6	Ν	2.6695	33.29	AVG	0.00	33.29	46.00	-12.71
7	Ν	2.9586	44.06	QP	0.00	44.06	56.00	-11.94
8	Ν	2.9586	34.26	AVG	0.00	34.26	46.00	-11.74
9	Ν	3.5898	43.17	QP	0.00	43.17	56.00	-12.83
10	Ν	3.5898	40.77	AVG	0.00	40.77	46.00	-5.23
11	Ν	4.5979	44.36	QP	0.00	44.36	56.00	-11.64
12	Ν	4.5979	41.52	QP	0.00	41.52	56.00	-14.48



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6.9 Radiated Spurious Emissions

Temperature	22°C
Relative Humidity	57%
Atmospheric Pressure	1018mbar
Test date :	March 17, 2015
Tested By :	Wiky Jam

Requirement(s):

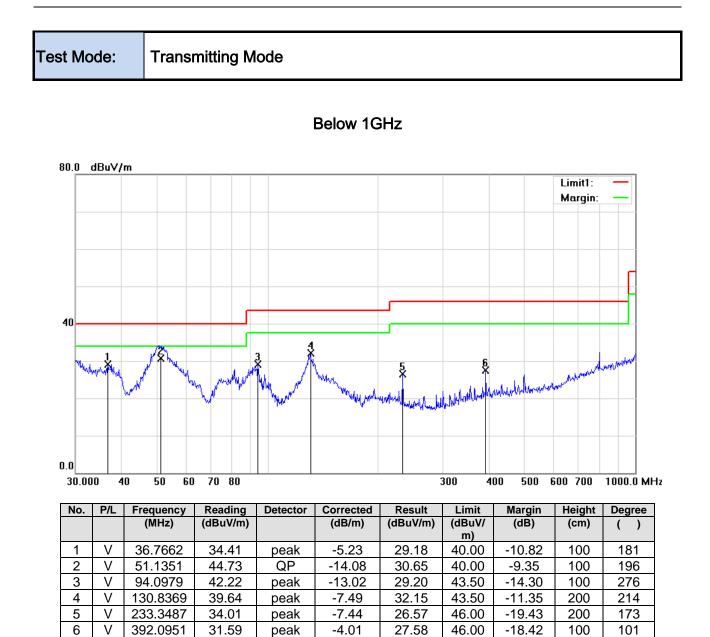
Spec	Item	Requirement	Applicable				
47CFR§15. 205, §15.209,	a)	Except higher limit as specified elsevents emissions from the low-power radio- exceed the field strength levels spect the level of any unwanted emissions the fundamental emission. The tighted edges	Z				
§15.247(d)		Frequency range (MHz)	Field Strength (µV/m)				
310.247 (d)		30 - 88 88 - 216	100 150				
		216 960	200				
		Above 960	500				
Test Setup	Test Setup						
Procedure	1. 2.	condition.					

SIEN GLOBAL TESTING & YOUR CHOICE FOR- TCA		Test Report Page	15070226-FCC-R1 38 of 52
	lev b. Th en c. Fir ma 3. The resolut 120 kHz for 4. The resolut bandwidth i 1GHz. The resolut bandwidth	el over a full rotation o e EUT was then rotate hission. ally, the antenna heig ximum emission. ion bandwidth and vide Quasiy Peak detection on bandwidth of test red s 3MHz with Peak dete ion bandwidth of test red s 10Hz with Peak dete	arization (whichever gave the higher emission of the EUT) was chosen. and to the direction that gave the maximum the was adjusted to the height that gave the no bandwidth of test receiver/spectrum analyzer is an at frequency below 1GHz. ceiver/spectrum analyzer is 1MHz and video ction for Peak measurement at frequency above eceiver/spectrum analyzer is 1MHz and the video ction for Average Measurement as below at
Remark Result	-	d 3 were repeated for points were measured Fail	the next frequency point, until all selected
	Yes Yes (See below)	□ _{N/A}	



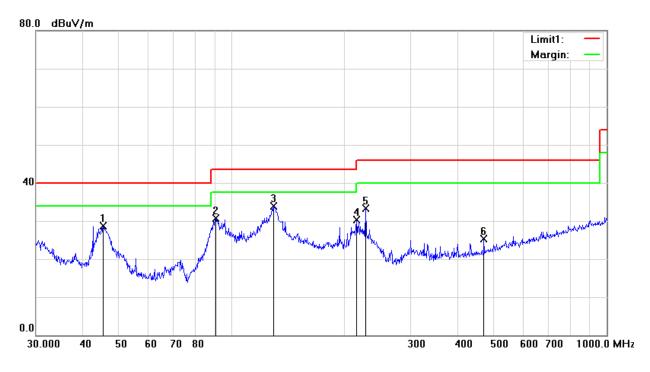
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No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV/m)		(dB/m)	(dBuV/m)	(dBuV/ m)	(dB)	(cm)	()
1	Н	45.3755	29.93	peak	-1.31	28.62	40.00	-11.38	200	359
2	Н	90.5374	43.95	peak	-13.24	30.71	43.50	-12.79	200	208
3	Н	129.0146	41.85	peak	-7.87	33.98	43.50	-9.52	200	142
4	Н	215.2678	39.18	peak	-8.87	30.31	43.50	-13.19	200	164
5	Н	227.6906	42.31	peak	-8.99	33.32	46.00	-12.68	100	177
6	Н	470.5232	27.83	peak	-2.51	25.32	46.00	-20.68	100	221



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Test Mode: Transmitting Mode

Note: Other modes were verified, only the result of worst case basic rate mode was

presented.

Above 1GHz

Mode: GFSK (Worst Case)

Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre- Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4804	38.16	AV	V	33.83	6.86	31.72	47.13	54	-6.87
4804	35.51	AV	Н	33.83	6.86	31.72	44.48	54	-9.52
4804	46.44	PK	V	33.83	6.86	31.72	55.41	74	-18.59
4804	47.15	PK	Н	33.83	6.86	31.72	56.12	74	-17.88

Low Channel (2402 MHz)

Middle Channel (2441 MHz)

Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre- Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4882	37.92	AV	V	33.86	6.82	31.82	46.78	54	-7.22
4882	36.82	AV	Н	33.86	6.82	31.82	45.68	54	-8.32
4882	47.02	PK	V	33.86	6.82	31.82	55.88	74	-18.12
4882	45.88	PK	Н	33.86	6.82	31.82	54.74	74	-19.26

High Channel (2480 MHz)

Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre- Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4960	36.92	AV	V	33.9	6.76	31.92	45.66	54	-8.34
4960	37.84	AV	Н	33.9	6.76	31.92	46.58	54	-7.42
4960	48.09	PK	V	33.9	6.76	31.92	56.83	74	-17.17
4960	47.13	PK	Н	33.9	6.76	31.92	55.87	74	-18.13



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Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
AC Line Conducted					
EMI test receiver	ESCS30	8471241027	09/18/2014	09/17/2015	
Line Impedance	LI-125A	191106	09/26/2014	09/25/2015	
Line Impedance	LI-125A	191107	09/26/2014	09/25/2015	
LISN	ISN T800	34373	09/26/2014	09/25/2015	
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/25/2014	09/24/2015	V
Transient Limiter	LIT-153	531118	09/02/2014	09/01/2015	V
RF conducted test					
Agilent ESA-E SERIES	E4407B	MY45108319	09/18/2014	09/17/2015	
Power Splitter	1#	1#	09/02/2014	09/01/2015	
DC Power Supply	E3640A	MY40004013	09/18/2014	09/17/2015	
Radiated Emissions					
EMI test receiver	ESL6	100262	09/18/2014	09/17/2015	
Positioning Controller	UC3000	MF780208282	11/20/2014	11/19/2015	
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	09/02/2014	09/01/2015	V
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	10/04/2015	10/04/2016	V
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/22/2014	09/21/2015	V
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/25/2014	09/24/2015	I
Universal Radio Communication Tester	CMU200	121393	09/26/2014	09/25/2015	

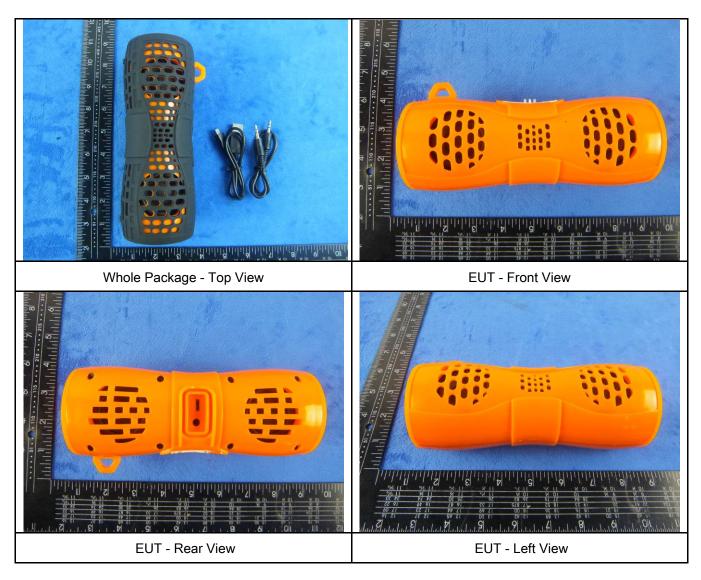


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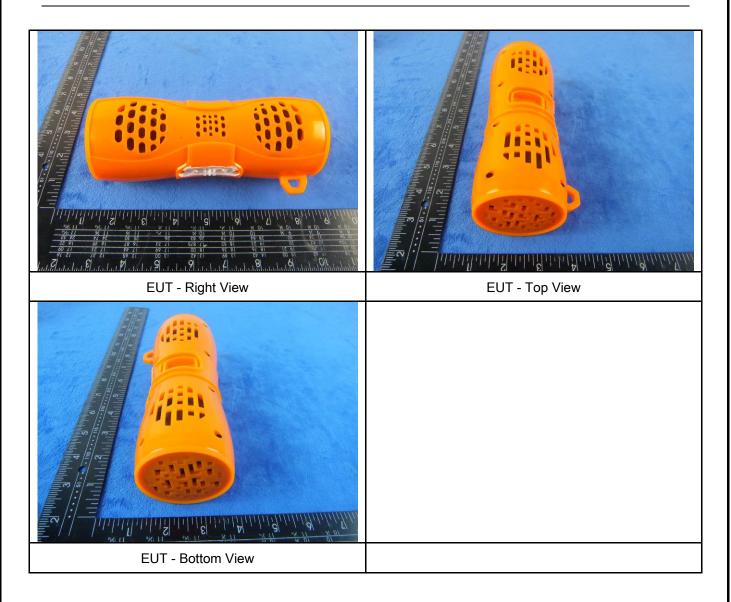
Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photo





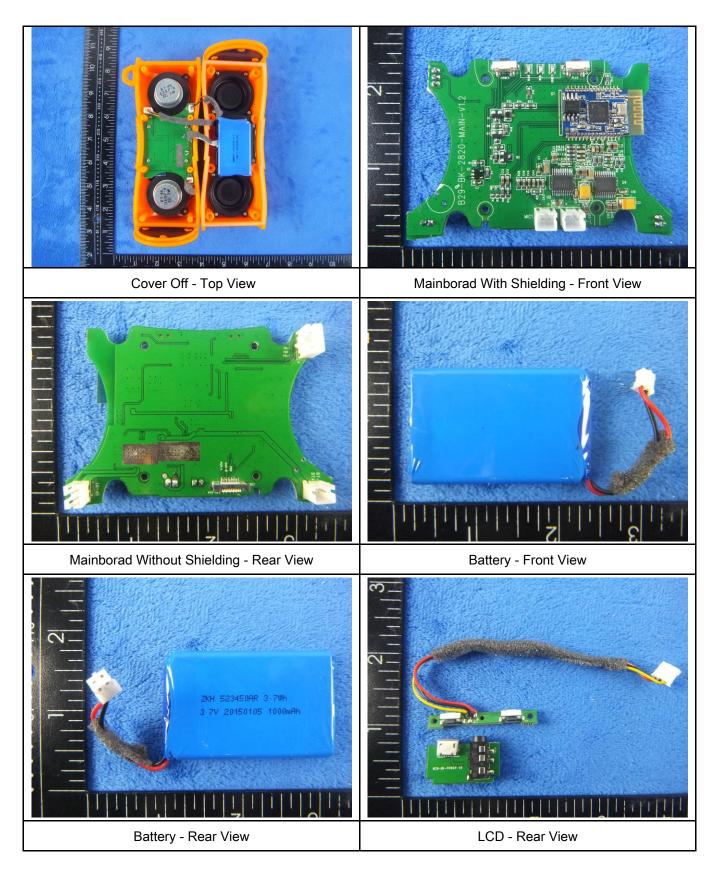
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Annex B.ii. Photograph: EUT Internal Photo





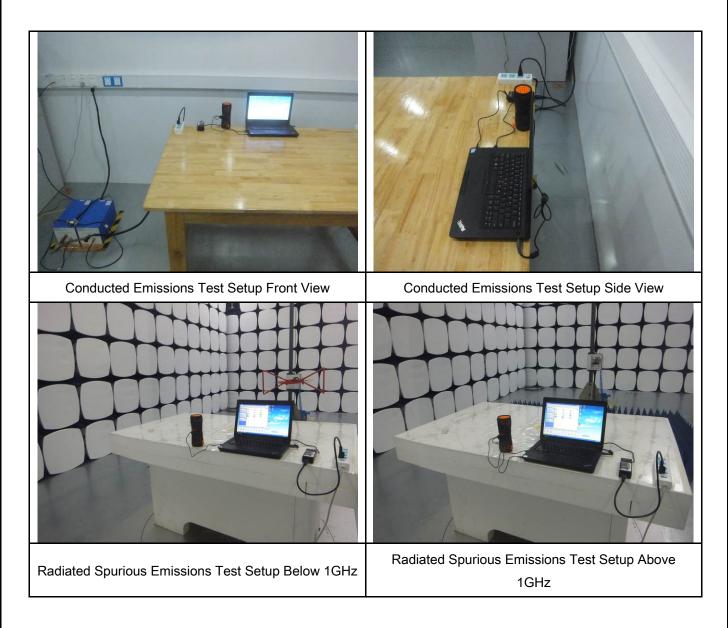
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BT Antenna View	



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Annex B.iii. Photograph: Test Setup Photo



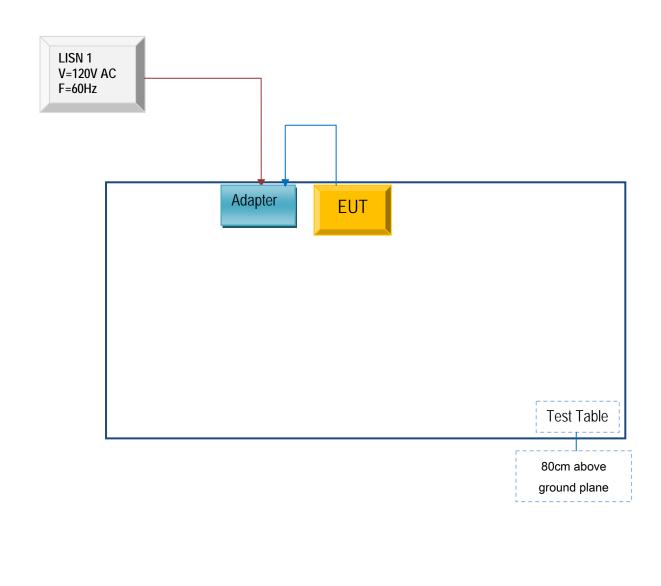


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Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

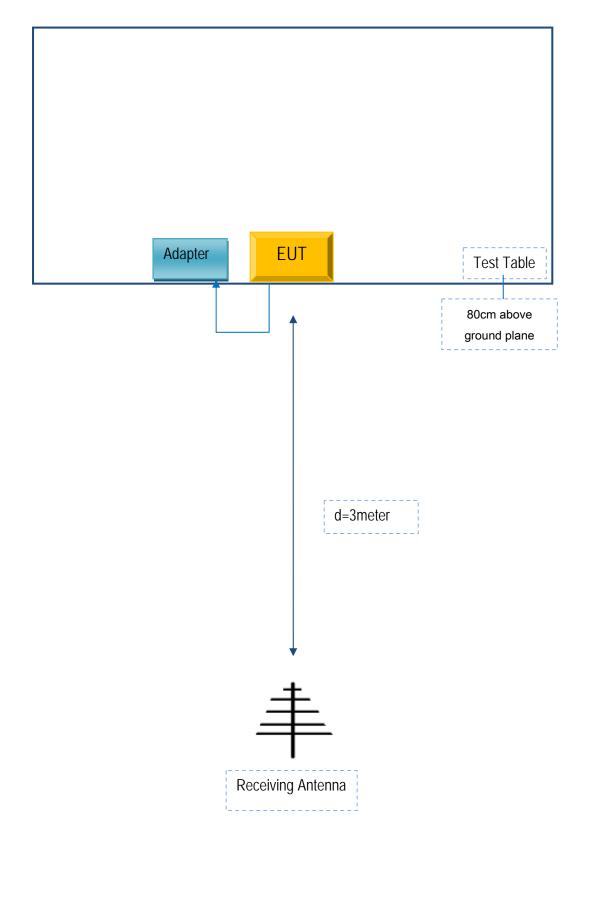
Block Configuration Diagram for AC Line Conducted Emissions





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Block Configuration Diagram for Radiated Emissions





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Annex C. il. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Manufacturer	Equipment Description	Model	Calibration Date	Calibration Due Date
N/A	N/A	N/A	N/A	N/A



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Annex D. User Manual / Block Diagram / Schematics / Partlist

Please see attachment



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Annex E. DECLARATION OF SIMILARITY

KINGTA TECHNOLOGY CO., LIMITED

To: SIEMIC, 775 Montague Expressway, Milpitas, CA 95035, USA

Declaration Letter

Dear Sir,

For our business issue and marketing requirement, we would like to list 30 model numbers on the **FCC** certificates and reports, as following:

Model No.: B29, SPBW1035, B18, 20510, 20511, 20512,Extreme Pump H2O,Escape, UB-SPB15, ,BT-018MW,KB102H,B1,B3D,B6H,B9H,B25,B26,B28,B30, B38,B39, B55,B52,B58,B68,YA3300,WS-4014,Blunote 2.0,NU-024, 3134

We declare that , all the model PCB ,Antenna and Appearance shape , accessories are the same . the difference of these is listed as below:

Main Model No	Serial Model No	Difference
B29	SPBW1035, B18, 20510, 20511, 20512,Extreme Pump H2O, Escape, UB-SPB15, ,BT-018MW,KB102H,B1,B3D,B6H,B9H,B25,B26,B28,B30, B38,B39, B55,B52,B58,B68, YA3300,WS-4014,Blunote 2.0,NU-024, 3134	Different model name

Thank you!

Signature:

orner

Printed name/title: ROMAN KING / Manager

Address: Floor 4, Building 9, Futing Industrial Zone, Zhucun, Guanlan, Bao'an , Shenzhen, Guangdong, China