

FCC REPORT

Applicant: JOY Electronics Appliances(Zhuhai)CO.,LTD

Address of Applicant: No.102.Xinghan RD, SanZao industrial Park, Zhuhai, China

Equipment Under Test (EUT)

Product Name: Electronic Bluetooth Scale

Model No.: JY-218A

Additional Model No.: N/A

Trade mark: N/A

FCC ID: 2AEDUJY-218A

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

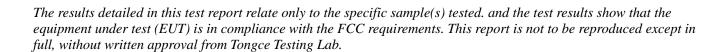
Date of sample receipt: Mar. 05, 2015

Date of Test: Mar. 06 - Mar. 17, 2015

Date of report issued: Mar. 18, 2015

Test Result: PASS *

* In the configuration tested, the EUT complied with the standards specified above.





2 Version

Version No.	Date	Descr	iption
00	Mar. 18, 2015	Orig	inal
(KO.)	(C)	(C.)	(YQ.)

Reviewed by: Date: Mar. 18, 2015

EMC Manager

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4. Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	N/A
Conducted Peak Output Power	15.247 (b)(3)	Pass
6dB Emission Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247(d)	Pass
Spurious Emission	15.205/15.209	Pass

Pass: The EUT complies with the essential requirements in the standard.



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5. General Information

5.1 Client Information

Applicant:	JOY Electronics Appliances(Zhuhai)CO.,LTD
Address of Applicant:	No.102.Xinghan RD, SanZao industrial Park, Zhuhai, China
Manufacturer:	JOY Electronics Appliances(Zhuhai)CO.,LTD
Address of Manufacturer:	No.102.Xinghan RD, SanZao industrial Park, Zhuhai, China

5.2 General Description of E.U.T.

Product Name:	Electronic Bluetooth Scale	(0)
Model No.:	JY-218A	
Additional Model No.:	N/A	
Trade mark:	N/A	
Operation Frequency:	2402MHz~2480MHz	
Channel numbers:	40	
Channel separation:	2MHz	
Modulation type:	GFSK	(\mathcal{C})
Antenna Type:	Internal Antenna	
Antenna gain:	0dBi	
Power supply:	DC 3V via Battery	
AC adapter:	(C) (C)	((0))



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Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz

Note

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	2402MHz
The middle channel	2440MHz
The Highest channel	2480MHz

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 %.

No.	Item	Uncertainty
1	Conducted Emission	±2.56dB
2	RF power, conducted	±0.12dB
3	Spurious emissions, conducted	±0.11dB
4	All emissions, radiated(<1G)	±3.92dB
5	All emissions, radiated(>1G)	±4.28dB
6	Temperature	±0.1°C
7	Humidity	±1.0%

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5.4 Test environment and mode

Operating Environment:		
Temperature:	24.0 °C	
Humidity:	54 % RH	
Atmospheric Pressure:	1010 mbar	
Test mode:		
Operation mode	Keep the EUT in continuous transmitting with modulation	

The sample was placed 0.8m 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.

5.5 Laboratory Facility

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

FCC - Registration No.: 572331

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

CNAS - Registration No.: CNAS L6165

Shenzhen TCT Testing Technology Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6165.

5.6 Laboratory Location

Shenzhen Tongce Testing Lab

Address: 1F, Leinuo Watch Building, Fuyong Town, Baoan Dist, Shenzhen, China

Tel: 86-755-36638142



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5.7 Test Instruments list

Radia	Radiated Emission:							
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)		
1	ESPI Test Receiver	ROHDE&SCHWARZ	ESVD	100008	Sep.17, 2014	Sep.16 , 2015		
2	Spectrum Analyzer	ROHDE&SCHWARZ	FSEM	848597/001	Sep.17, 2014	Sep.16, 2015		
3	Spectrum Analyzer	ROHDE&SCHWARZ	FSU3	1166.1660.03	Sep.17, 2014	Sep.16, 2015		
4	Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep.17, 2014	Sep.16 , 2015		
5	Pre-amplifier	HP	8447D	2727A05017	Sep.17, 2014	Sep.16, 2015		
6	Loop antenna	ZHINAN	ZN30900A	12024	Dec.15, 2014	Dec.14, 2015		
7	Broadband Antenna	Schwarzbeck	VULB9163	340	Sep.17, 2014	Sep.16 , 2015		
8	Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep.17, 2014	Sep.16 , 2015		
9	Loop antenna	ZHINAN	ZN30900A	12024	Dec.15, 2014	Dec.14 , 2015		
10	Coax cable	TCT	N/A	N/A	Sep.14, 2014	Sep.13 , 2015		
11	Coax cable	тст	N/A	N/A	Sep.14, 2014	Sep.13 , 2015		
12	Coax cable	тст	N/A	N/A	Sep.14, 2014	Sep.13 , 2015		
13	Coax cable	TCT	N/A	N/A	Sep.14, 2014	Sep.13 , 2015		
14	EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A	N/A		

Cond	lucted Emission:						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
1	EMI Test Receiver	R&S	ESCS30	100139	Sep.17, 2014	Sep.16, 2015	
2	LISN-1	AFJ	LS16C	16010947251	Sep.17, 2014	Sep.16, 2015	
3	LISN-2	Schwarzbeck	NSLK 8126	8126453	Sep.17, 2014	Sep.16 , 2015	
4	Coax cable	тст	N/A	164080	Sep.17, 2014	Sep.16 , 2015	
5	EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A	N/A	

Cond	lucted method test:	(3)				(c)	
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
1	Spectrum Analyzer	ROHDE&SCHWARZ	FSU3	200054	Sep.17, 2014	Sep.16, 2015	
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	Oct. 22, 2014	Oct. 21 , 2015	

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6. Test results and Measurement Data

6.1 Antenna requirement:

Standard requirement:

FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

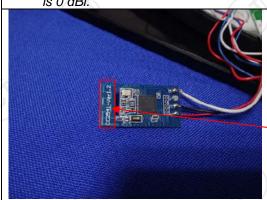
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

The antenna is an internal antenna which cannot replace by end-user, the best case gain of the antenna is 0 dBi.



Bluetooth antenna



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6.2 Conducted Emission

Test Requirement:	FCC Part15 C Section 15.207	
Test Method:	ANSI C63.4: 2009	
Test Frequency Range:	150 kHz to 30 MHz	
Class / Severity:	Class B	
Receiver setup:	RBW=9 kHz, VBW=30 kHz	
Limit:	Limit (dRu)	/)
Littiit.	Frequency range (MHz) Quasi-peak	Average
	0.15-0.5 66 to 56*	56 to 46*
	0.5-5 56	46
	5-30 60	50
	* Decreases with the logarithm of the frequency.1. The E.U.T and simulators are connected to the main	
	 50ohm/50uH coupling impedance for the measuring The peripheral devices are also connected to the material a LISN that provides a 50ohm/50uH coupling imped termination. (Please refer to the block diagram of the photographs). Both sides of A.C. line are checked for maximum contentions of equipment and all of the interface cables changed according to ANSI C63.4: 2003 on conduct measurement. 	ain power through ance with 50ohm e test setup and inducted the relative is must be
Test setup:	Reference Plane	
	AUX Equipment E.U.T EMI Receiver	— AC power
Test Instruments:	Remark E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m Refer to section 5.7 for details	
Test mode:	Refer to section 5.4 for details	

Remark: Because the EUT is powered by battery, so the term is not application.

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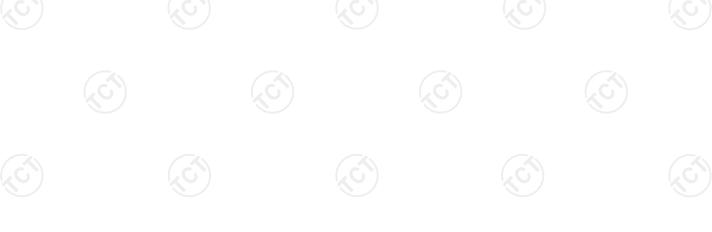


6.3 Conducted Output Power

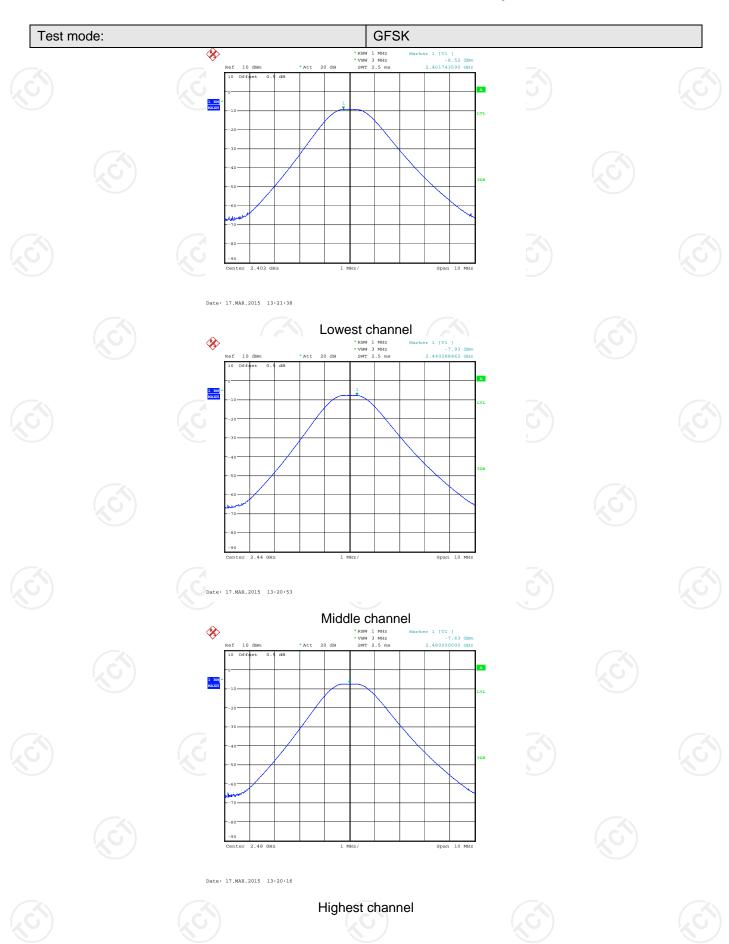
Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.4:2009 and KDB558074
Limit:	30dBm
Test setup:	Spectrum Analyzer EUT
Test Instruments:	Refer to section 5.7 for details
Test procedure:	 The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v03r02. The RF output of EUT was connected to the power meter 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. Measure the conducted output power and record the results in the test report.
Test results:	Pass

Measurement Data

Test CH	Maximum Conducted Output Power (dBm)	Limit(dBm)	Result
Lowest	-9.52		
Middle	-7.93	30.00	Pass
Highest	-7.63		



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6.4 Emission Bandwidth

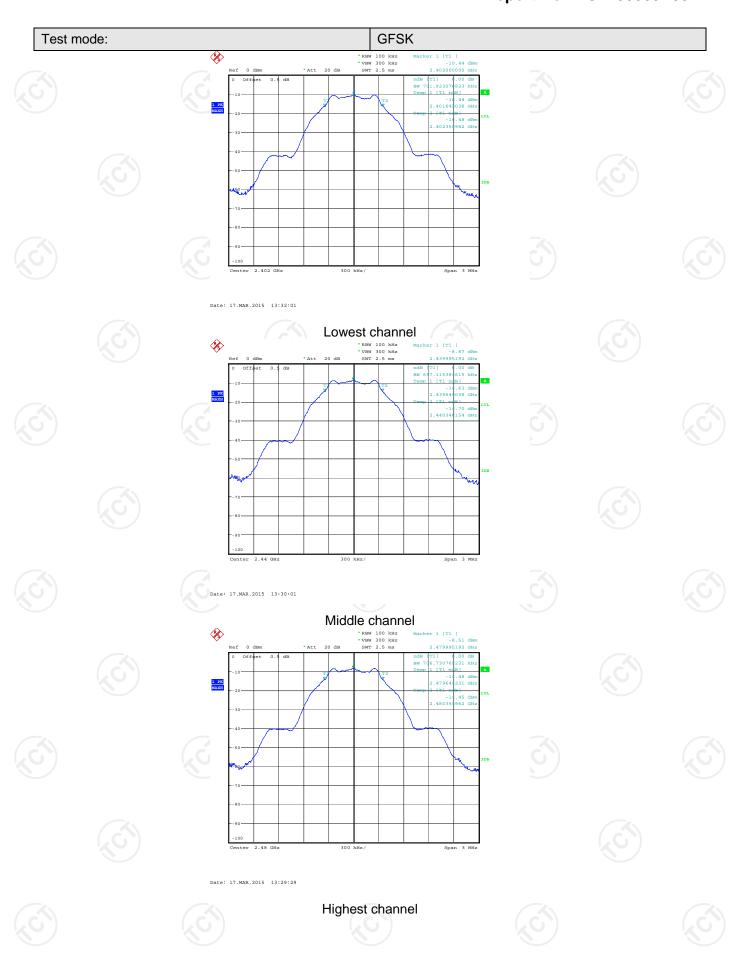
Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.4:2009 and KDB558074
Limit:	>500kHz
Test setup:	Spectrum Analyzer EUT
Test Instruments:	Refer to section 5.7 for details
Test procedure:	 The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v03r02. The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v03r02. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. Measure and record the results in the test report.
Test results:	Pass

Measurement Data

Test plot as follows:

Test CH	6dB Emission Bandwidth (KHz)	Limit(kHz) Result
Lowest	701.92	
Middle	697.12	>500 Pass
Highest	706.73	

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6.5 Power Spectral Density

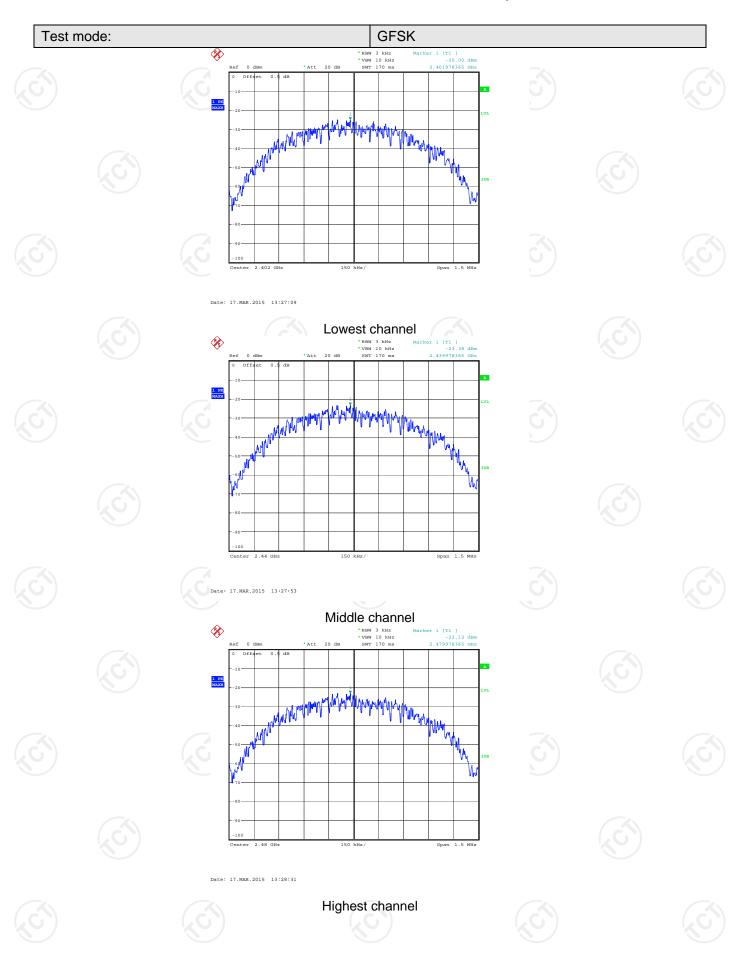
<u> </u>	
Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	ANSI C63.4:2009 and KDB558074
Limit:	The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.
Test setup:	Spectrum Analyzer EUT
Test Instruments:	Refer to section 5.7 for details
Test mode:	 The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v03r02 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. Video bandwidth VBW = 10 kHz 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 results:	Pass

Measurement Data

Test CH	Power Spectral Density (dBm)	Limit(dBm)	Result
Lowest	-25.00		(3)
Middle	-23.38	8.00	Pass
Highest	-23.12		

Test plot as follows:

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6.6 Conducted Band Edges and Spurious Emission Measurement

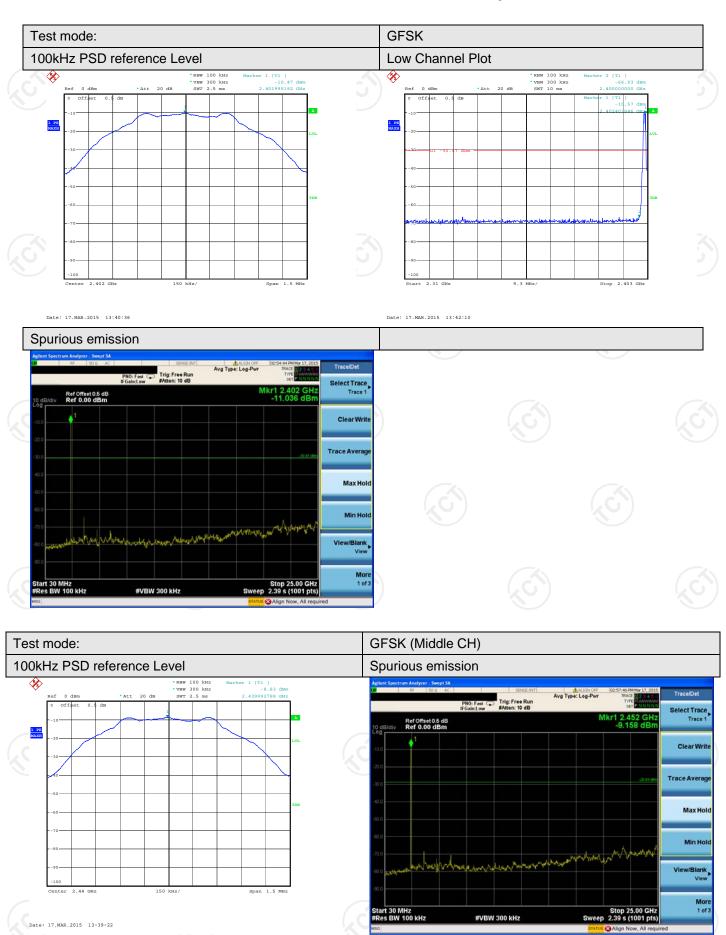
Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.4:2009 and KDB558074
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 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 Instruments:	Refer to section 5.7 for details
Test procedure:	 The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r02. 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 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 over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). Measure and record the results in the test report. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
Test results:	Pass

Test plot as follows:



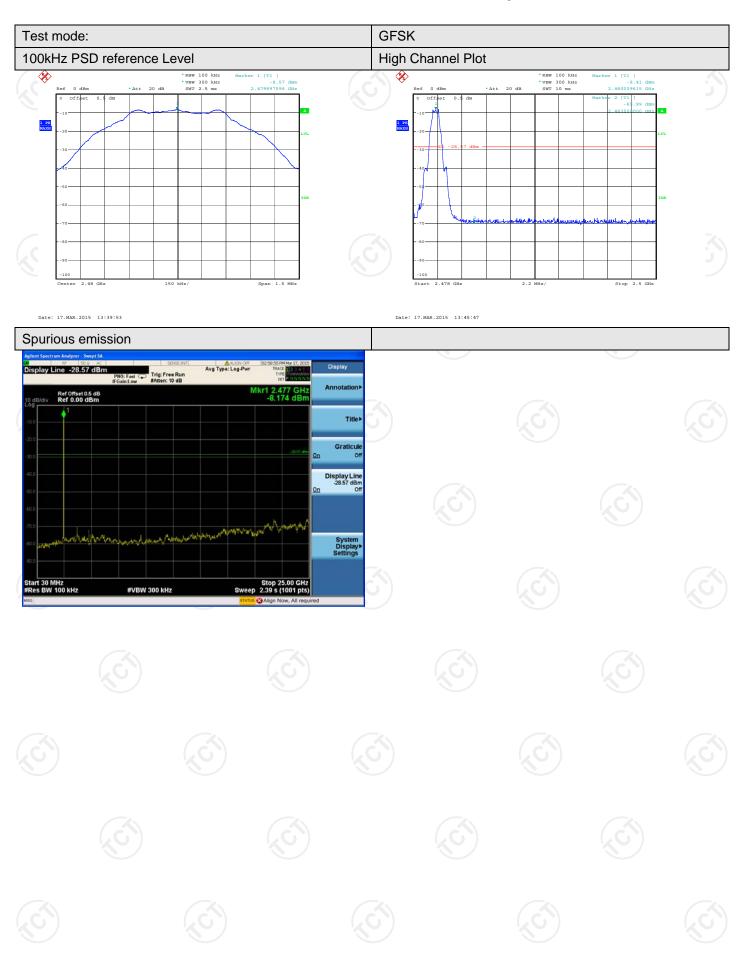
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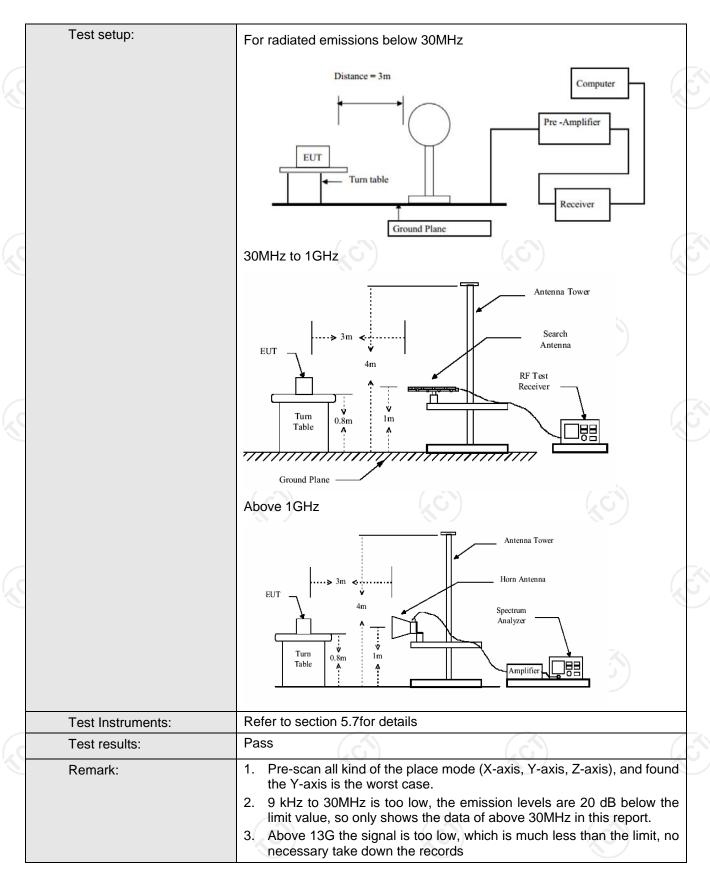


6.7 Radiated Band Edges and Spurious Emission Measurement

Test Requirement:	FCC Part15 C Section 15.209 and 15.205							
Test Method:	ANSI C63.4:2009							
Test Frequency Range:	9KHz to 25GHz							
Test site:	Measurement Distance: 3m							
Receiver setup:								
•	Frequency	Detector	RBW	VBW	Remark			
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value			
	Above 1GHz	Peak	1MHz	3MHz	Peak Value			
	Above IGHZ	Peak	1MHz	10Hz	Average Value			
Limit:					T			
	Freque		Limit (dBuV		Remark			
	30MHz-88	\ \	40.		Quasi-peak Value			
	88MHz-21		43.		Quasi-peak Value			
	216MHz-96		46.		Quasi-peak Value			
	960MHz-	1GHz	54.		Quasi-peak Value			
	Above 1	GHz	54.0		Average Value			
			74.0 DB Publication No. 55807		Peak Value			
	find the maximum reading. A pre-amp and a high pass filter are used the test in order to get better signal level. 3. The EUT was placed on a turntable with 0.8 meter above ground. 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower. 5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level 6. 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 measurement will be repeated using the quasi-peak detector and reported. 7. 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 ≥RBW; Sweep = auto; Detector function = peak; Trace = max hold; (3) Set RBW = 1 MHz, VBW= 3MHz for f 1 GHz for peak measurement.							
	For average me • VBW = 10 H	ent. asurement: Hz, when duty o	cycle is no l	ess than 98				

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Limit: FCC Part 15B Class B RE_3 m

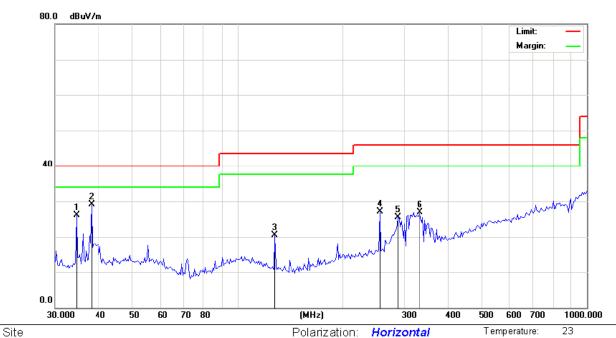
Report No.: TCT150305E001

Humidity:

50 %

Below 1GHz

Horizontal:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∨	dB	dBuV/m	dBu√/m	dB	Detector	cm	degree	Comment
1		34.5270	39.21	-13.16	26.05	40.00	-13.95	peak		0	
2	*	38.0964	41.77	-12.71	29.06	40.00	-10.94	peak		0	
3		127.5865	35.24	-14.69	20.55	43.50	-22.95	peak		0	
4		255.8225	36.89	-9.76	27.13	46.00	-18.87	peak		0	
5		288.2840	34.25	-8.65	25.60	46.00	-20.40	peak		0	
6		331 7857	3/1.50	-7.60	26.90	46.00	_10 10	neak		Λ	

Power:

DC 9V



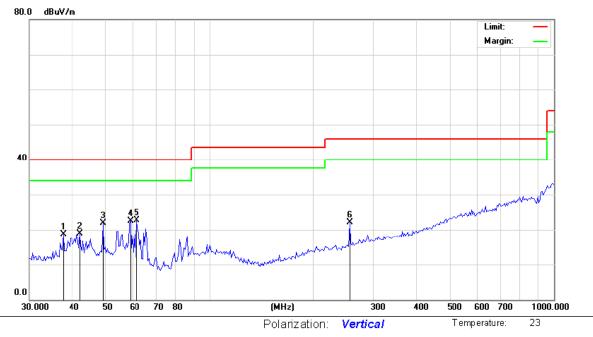
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Vertical:

Site



Limit: FCC Part 15B Class B RE_3 m		Power:	DC 9V		Humidity:	50 %
Dooding Comest	Magazira			Antonno	Tabla	

No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBu∨	dB	dBuV/m	dBu∀/m	dB	Detector	cm	degree	Comment
1	37.5647	31.53	-12.78	18.75	40.00	-21.25	peak		0	
2	42.0350	31.20	-12.39	18.81	40.00	-21.19	peak		0	
3	49.0626	33.94	-12.08	21.86	40.00	-18.14	peak		0	
4	58.8978	35.16	-12.73	22.43	40.00	-17.57	peak		0	
5 *	61.4343	36.08	-13.35	22.73	40.00	-17.27	peak		0	
6	255.8225	31.94	-9.76	22.18	46.00	-23.82	peak		0	

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



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Above 1GHz

Freq.	Ant. Pol.	Peak	AV	Correctio	Emission Level		Peak limit	AV limit	Margin
(MHz)	H/V	reading	reading	n Factor	Peak	AV	(dBuV/m)	(dBuV/m)	(dB)
		(dBuV)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)			
1303.12	Н	48.93		-4.20	44.73		74	54	-9.27
4804.00	Н	49.9		-3.94	45.96		74	54	-8.04
7206.00	Н	44.7		0.52	45.22		74	54	-8.78
	H		-/-		/			<i>/</i>	
	∠GH		(- 0		()	· O -) -		(-C) 1	
				7	7		•		
1304.09	V	48.22		-4.25	43.97		74	54	-10.03
4804.00	V	50.04		-3.94	46.10		74	54	-7.90
7206.00	V	44.34		0.59	44.93		74	54	-9.07
	V								/
)	V	(,C ₁)		(, ()		(2C1)		()

Freq.	Ant. Pol.	Peak	AV	Correctio	Emission Level		Peak limit	AV limit	Margin
(MHz)	H/V	reading (dBuV)	reading (dBuV)	n Factor (dB)	Peak (dBuV/m)	AV (dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)
1241.87	Н	49.65		-4.20	45.45		74	54	-8.55
4880.00	Н	51.01		-3.98	47.03		74	54	-6.97
7320.00	Н	45.66		0.56	46.22		74	54	-7.78
	Н	(X			X\		(X)		/
	Н			(, ((.6.)		(
									Y.
1306.45	V	49.30		-4.25	45.05		74	54	-8.95
4880.00	V	50.35		-3.98	46.37		74	54	-7.63
7320.00	V	44.91		0.57	45.48		74	54	-8.52
	V		-/- (1)			(`		(I	
	V		4		(.C1		(0)	

Freq.	Ant. Pol.	Peak	AV	Correctio	Emission Level		Peak limit	AV limit	Margin
(MHz)	H/V	reading	reading	n Factor	Peak	AV	(dBuV/m)	(dBuV/m)	(dB)
		(dBuV)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)			
1303.34	Н	48.70		-4.20	44.50		74	54	-9.50
4960.00	Н	50.03		-3.98	46.05		74	54	-7.95
7440.00	Н	44.86		0.52	45.38		74	54	-8.62
	H					X		-7/	
	Н					.C. 24		f C.	
,					,				
1309.82	V	49.39		-4.25	45.14		74	54	-8.86
4960.00	V	50.36		-3.98	46.38		74	54	-7.62
7440.00	V	45.40		0.57	45.97		74	54	-8.03
	V				X				/
	V			(. (/

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

- 2) Radiated emissions measured in frequencies above 1GHz were made with peak detector and Average (AV) detector.
- 3) Average test would be performed if the peak readings were greater than the average limit.
- 4) 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.
- 5) Emission Level=Peak (AV) Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 6) Margin (dB) = Emission Level (Peak) (dBuV/m)-Average limit (dBuV/m)

----End of report-----

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