

FCC - TEST REPORT

Report Number	68.950.15.174.	.01	Date of Issue:	November 5, 2015
Model	: JioPay 2800			
Product Type	: POS			
Applicant	: KanhaTech So	lutions Pvt I	_td	_
Address	: No 74, Prestige	e Feroze Bu	ilding, 4th Floor,	Cunningham road,
	Bangalore			
Production Facility	: KanhaTech So	lutions Pvt I	_td	
Address	: No 74, Prestige	e Feroze Bu	ilding, 4th Floor,	Cunningham road,
	Bangalore			
Test Result	: Positive	□ Negativ	/e	
Total pages	: 37			
TÜN QÜD Q (III II)		, , TÜV.		

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2 Details about the Test Laboratory

Details about the Test Laboratory

Test Site 1

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch

Building 12&13, Zhiheng Wisdomland Business Park,

Nantou Checkpoint Road 2, Nanshan District,

Shenzhen City, 518052,

P. R. China

FCC Registration

502708

No.:

IC Registration

10320A-1

No:

Telephone: 86 755 8828 6998 Fax: 86 755 8828 5299



3 Description of the Equipment Under Test

Product: POS

Model no.: JioPay 2800

Brand Name: JioPay

FCC ID: 2AFXJ-JIOPAY2800

Options and accessories: NIL

Rating: DC 3.7V by Li-ion Battery or

5VDC,2.0A (Charged by an external power adapter

Adapter input:100-240VAC, 50/60Hz, 0.5A

Adapter output:5.0V, 2.0A)

RF Transmission

Frequency:

2402-2480MHz

No. of Operated Channel: 79

Modulation: GFSK, $\pi/4$ -DQPSK, 8DPSK

Antenna Type: Integral Antenna

Antenna Gain: 1.6dBi

Description of the EUT: The Equipment Under Test (EUT) is a POS with Bluetooth function

operated at 2.4GHz



4 Summary of Test Standards

	Test Standards
FCC Part 15 Subpart C	PART 15 - RADIO FREQUENCY DEVICES
10-1-2014 Edition	Subpart C - Intentional Radiators

All the test methods were according to Public Notice DA 00-705 -Frequency Hopper Spread Spectrum Test Procedure released by FCC on March 30, 2000 and C63.10 (2014).



5 Summary of Test Results

Technical Requirements					
FCC Part 15 Subpa	rt C				
Test Condition		Pages	Test Site	Test Result	
§15.207	Conducted emission AC power port			N/A	
§15.247 (b) (1)	Conducted peak output power	10	Site 1	Pass	
§15.247(a)(1)	20dB bandwidth			N/A	
§15.247(a)(1)	Carrier frequency separation	12	Site 1	Pass	
§15.247(a)(1)(iii)	Number of hopping frequencies	18	Site 1	Pass	
§15.247(a)(1)(iii)	Dwell Time	21	Site 1	Pass	
§15.247(a)(2)	6dB bandwidth			Pass	
§15.247(e)	Power spectral density			N/A	
§15.247(d)	Spurious RF conducted emissions	26	Site 1	Pass	
§15.247(d)	Band edge	30	Site 1	Pass	
§15.247(d) & §15.209	Spurious radiated emissions for transmitter	35	Site 1	Pass	
§15.203	Antenna requirement	See note 2		Pass	

Note 1: N/A=Not Applicable.

Note 2: The EUT uses an integral antenna, which gain is 1.6dBi. In accordance to §15.203, It is considered sufficiently to comply with the provisions of this section.



6 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: 2AFXJ-JIOPAY2800 complies with Section 15.207, 15.209, 15.247 of the FCC Part 15, Subpart C Rules.

SUMMARY:

All tests according to the regulations cited on page 5 were

- Performed
- ☐ Not Performed

The Equipment Under Test

- - Fulfills the general approval requirements.
- ☐ **Does not** fulfill the general approval requirements.

Sample Received Date: August 11, 2015

Testing Start Date: August 12, 2015

Testing End Date: August 25, 2015

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch

Reviewed by: Prepared by:

John Zhi EMC Project Manager

Johnshi

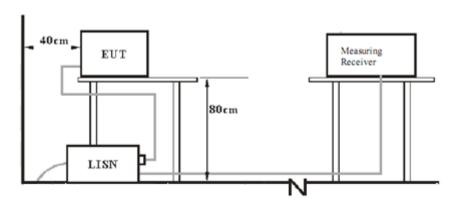
Alan Xiong EMC Project Engineer

Alem Xzong

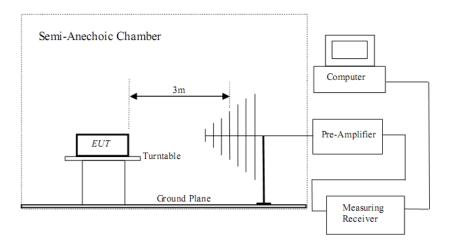


7 Test Setups

7.1 AC Power Line Conducted Emission test setups



7.2 Radiated test setups



7.3 Conducted RF test setups





8 Systems test configuration

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.(SHIELD)	S/N(LENGTH)
Notebook	Lenovo	X220	

Test software: Bluetooth 3, which used to control the EUT in continues transmitting mode

The system was configured to hopping mode and non-hopping mode.

Hopping mode: typical working mode (normal hopping status)

Non-hopping mode: The system was configured to operate at a signal channel transmitting. The test software allows the configuration and operation at the worst-case duty and the highest transmit power



9 Technical Requirement

9.1 Conducted Emission on AC power port

Test Method

- 1. The EUT was placed on a table, which is 0.8m above ground plane
- 2. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.).
- 3. Maximum procedure was performed to ensure EUT compliance
- 4. A EMI test receiver is used to test the emissions from both sides of AC line

Limit

According to §15.207, conducted emissions limit as below:

Frequency		QP Limit AV Lin		
	MHz	dΒμV	dΒμV	
	0.150-0.500	66-56*	56-46*	
	0.500-5	56	46	
	5-30	60	50	

Decreasing linearly with logarithm of the frequency



Conducted Emission

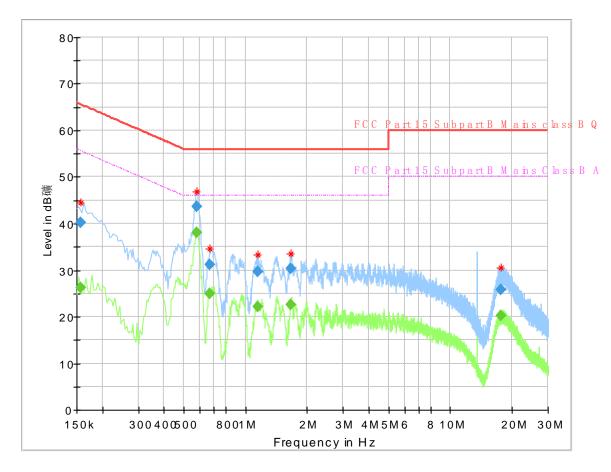
Product Type : POS

M/N : JioPay 2800

Operating Condition : Charging and Transmitting

Test Specification : Line

Comment : AC 120V/60Hz



Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.157500		26.20	55.59	29.39	L1	9.6
0.157500	40.30		65.59	25.29	L1	9.6
0.578500		38.10	46.00	7.90	L1	10.0
0.578500	43.74		56.00	12.26	L1	10.0
0.669500		25.01	46.00	20.99	L1	10.0
0.669500	31.22		56.00	24.78	L1	10.0
1.145500		22.22	46.00	23.78	L1	9.8
1.145500	29.69		56.00	26.31	L1	9.8
1.657500		22.61	46.00	23.39	L1	9.8
1.657500	30.28		56.00	25.72	L1	9.8
17.713500		20.18	50.00	29.82	L1	10.1
17.713500	25.75		60.00	34.25	L1	10.1



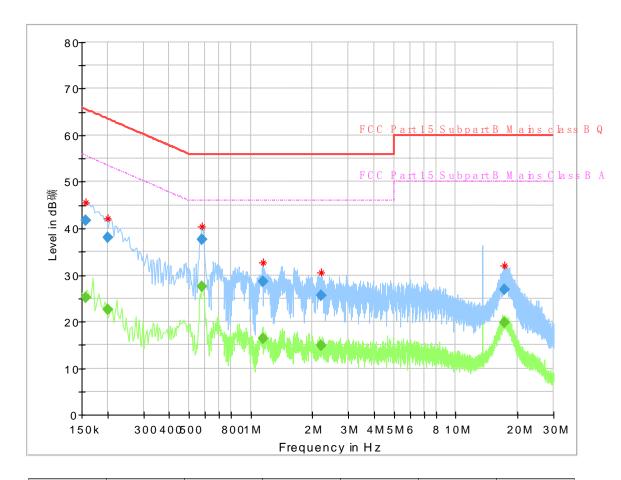
Conducted Emission

Product Type : POS

M/N : JioPay 2800

Operating Condition : Charging and Transmitting

Test Specification : Neutral Comment : AC 120V/60Hz



Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.157500		25.13	55.59	30.46	N	9.6
0.157500	41.82		65.59	23.77	N	9.6
0.201500		22.62	53.55	30.93	N	9.8
0.201500	38.07		63.55	25.48	N	9.8
0.577500		27.59	46.00	18.41	N	10.0
0.577500	37.73		56.00	18.27	N	10.0
1.145500		16.25	46.00	29.75	N	9.8
1.145500	28.67		56.00	27.33	N	9.8
2.201500		14.85	46.00	31.15	N	9.8
2.201500	25.62		56.00	30.38	N	9.8
17.370500		19.80	50.00	30.20	N	10.1
17.370500	26.82		60.00	33.18	N	10.1



9.2 Conducted peak output power

Test Method

- 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
- 2. Add a correction factor to the display.
- 3. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power

Limits

According to §15.247 (b) (1), conducted peak output power limit as below:

Frequency Range	Limit	Limit
MHz	W	dBm
2400-2483.5	≤1	≤30



Conducted peak output power

Bluetooth Mode GFSK modulation Test Result

	Conducted Peak	
Frequency	Output Power	Result
MHz	dBm	
Low channel 2402MHz	4.38	Pass
Middle channel 2441MHz	4.64	Pass
High channel 2480MHz	4.61	Pass

Bluetooth Mode 8DPSK modulation Test Result

Frequency MHz	Conducted Peak Output Power dBm	Result
Low channel 2402MHz	4.73	Pass
Middle channel 2441MHz	4.99	Pass
High channel 2480MHz	4.94	Pass



9.3 20 dB bandwidth

Test Method

- 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. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- 3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
- 4. Repeat above procedures until all frequencies measured were complete.

	-	~	

Limit [kHz]
N/A



20 dB bandwidth

Bluetooth Mode GFSK Modulation test result

Frequency	20 dB Bandwidth	Limit	Result
MHz	kHz	kHz	
2402	946.5		Pass
2441	943.6		Pass
2480	943.6		Pass

Bluetooth Mode 8DPSK Modulation test result

Frequency	20 dB Bandwidth	Limit	Result
MHz	kHz	kHz	
2402	1253.3		Pass
2441	1253.3		Pass
2480	1250.4		Pass



9.4 Carrier Frequency Separation

Test Method

- Use the following spectrum analyzer settings:
 Span = wide enough to capture the peaks of two adjacent channels, RBW ≥ 1% of the span, VBW) ≥RBW, Sweep = auto, Detector function = peak
- 2. By using the Max-Hold function record the separation of two adjacent channels.
- 3. Measure the frequency difference of these two adjacent channels by spectrum analyzer marker function.
- 4. Repeat above procedures until all frequencies measured were complete.

Limit

Limit
kHz
≥25KHz or 2/3 of the 20 dB bandwidth which is greater

GFSK Modulation Limit

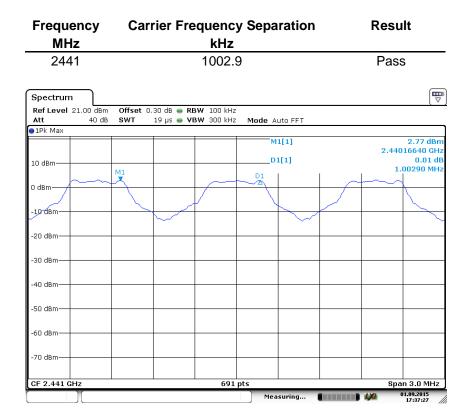
Frequency		2/3 of 20 dB Bandwidth
	MHz	kHz
	2402	631.0
	2441	629.1
	2480	629.1



Carrier Frequency Separation

Test result: The measurement was performed with the typical configuration (normal hopping status), here GFSK modulation mode was used to show compliance.

GFSK Modulation test result





9.5 Number of hopping frequencies

Test Method

- Use the following spectrum analyzer settings:
 Span = wide enough to capture the peaks of two adjacent channels, RBW ≥ 1% of the span, VBW) ≥RBW, Sweep = auto, Detector function = peak
- 2. Set the spectrum analyzer on Max-Hold Mode, and then keep the EUT in hopping mode.
- 3. Record all the signals from each channel until each one has been recorded.
- 4. Repeat above procedures until all frequencies measured were complete.

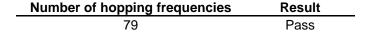
L	ı	n	n	ı	t

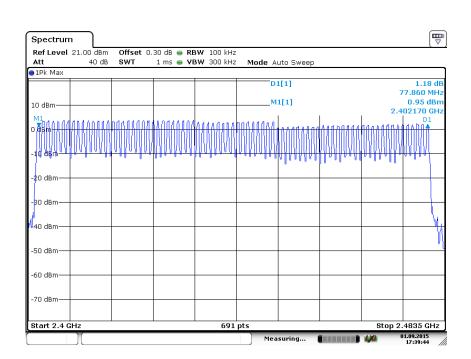
Limit	
number	
≥ 15	



Number of hopping frequencies

Test result: The measurement was performed with the typical configuration (normal hopping status), and the total hopping channels is constant for the all modulation mode according with the Bluetooth Core Specification. Here GFSK modulation mode was used to show compliance.







9.6 Dwell Time

Test Method

- Connect EUT antenna terminal to the spectrum analyzer with a low loss cable.
 Equipment mode: Spectrum analyzer
- 2. RBW: 1MHz; VBW: 1MHz; SPAN: Zero Span
- 3. Adjust the center frequency of spectrum analyzer on any frequency be measured.
- 4. Measure the Dwell Time by spectrum analyzer Marker function.
- 5. Repeat above procedures until all frequencies measured were complete.

Limit

According to §15.247(a)(1)(iii) The average time of occupancy on any frequency shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

Dwell time

The maximum dwell time shall be 0,4 s.

According to the Bluetooth Core Specification, the worse result (DH5 mode) was reported to show compliance.

The Dwell Time = Burst Width * Total Hops. The detailed calculations are showed as follows: The duration for dwell time calculation: 0.4 [s] * hopping number = 0.4 [s] * 79 [ch] = 31.6 [s*ch];

The burst width, which is directly measured, refers to the duration on one channel hop.

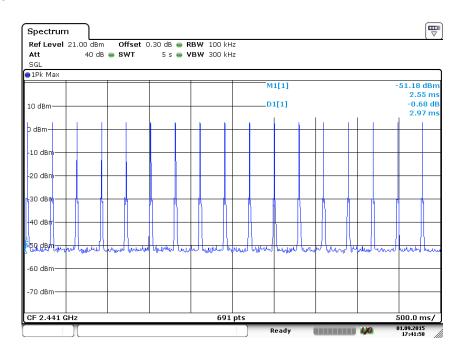
The maximum number of hopping channels in 31.6s for DH5=1600 / 6 / 79 *31.6=106.67

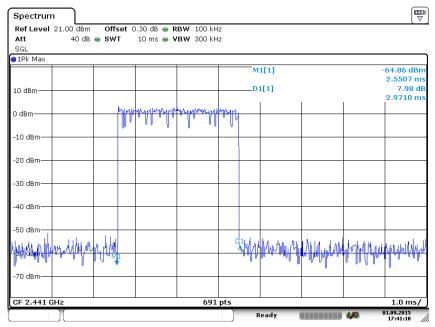
Test Result

Modulation	Mode	Reading (µs)	Total Hops	Test Result (ms)	Limit (ms)	Result
GFSK	DH5	2971	107.44	319.20	< 400	Pass
π/4-DQPSK	2DH5	2957	107.44	317.70	< 400	Pass
8-DPSK	3DH5	2971	107.44	319.20	< 400	Pass



GFSK Modulation

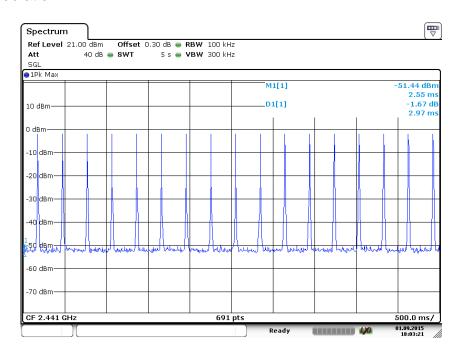


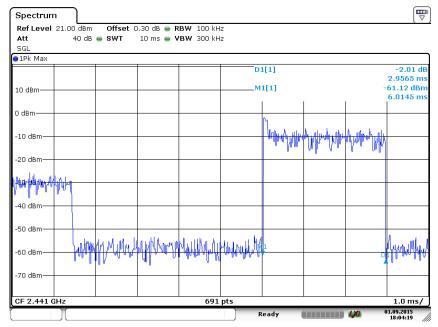


DH₅



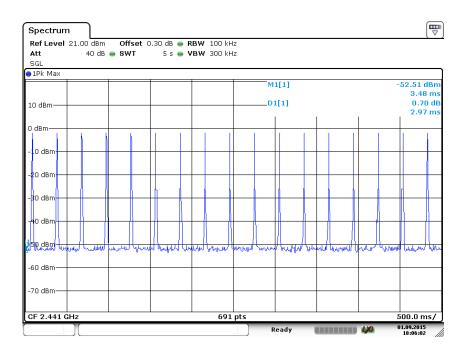
π/4-DQPSK Modulation

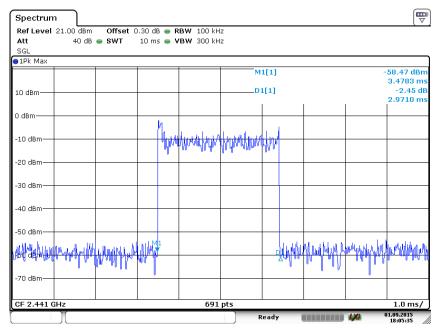






8-DPSK Modulation







9.7 Spurious RF conducted emissions

Test Method

- Use the following spectrum analyzer settings:
 Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.
 RBW = 100 kHz, VBW≥RBW, Sweep = auto, Detector function = peak, Trace = max hold
- 2. Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded.
- 3. The level displayed must comply with the limit specified in this Section. Submit these plots.
- 4. Repeat above procedures until all frequencies measured were complete.

Limit

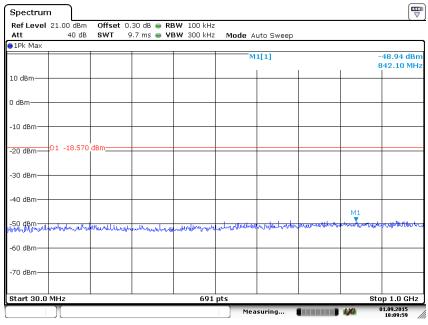
Frequency Range MHz	Limit (dBc)
30-25000	-20



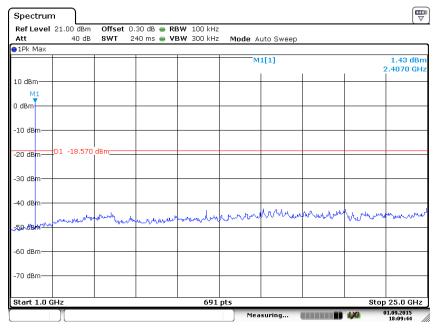
Spurious RF conducted emissions

Only the worse case (which is subject to the maximum EIRP, GFSK mode) test result is listed in the report.

2402MHz



Date:1.SEP.2015 18:09:58

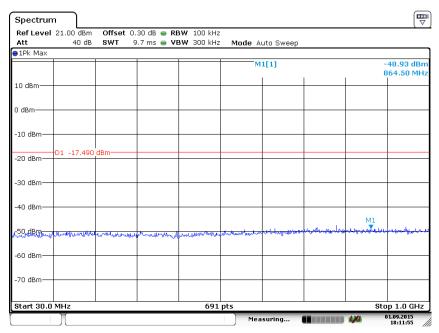


Date:1.SEP.2015 18:09:44

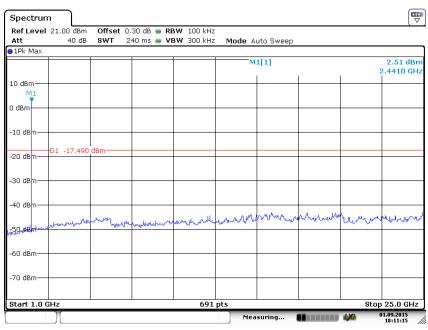


Spurious RF conducted emissions

2441MHz



Date: 1.SEP.2015 18:11:56

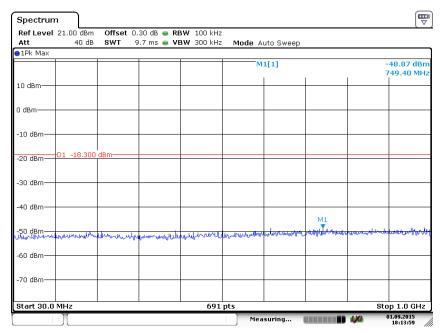


Date: 1.SEP 2015 18:11:15

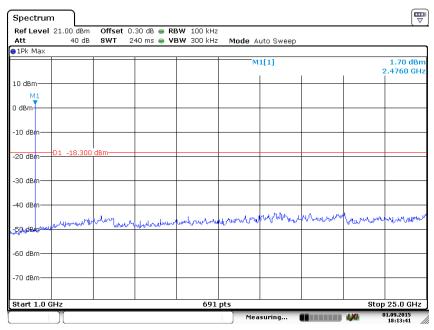


Spurious RF conducted emissions

2480MHz



Date: 1.SEP.2015 18:13:59



Date: 1.SEP 2015 18:13:40



9.8 Band edge testing

Test Method

- 1 Use the following spectrum analyzer settings: Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 100 kHz, VBW ≥ RBW, Sweep = auto, Detector function = peak, Trace = max hold
- 2 Allow the trace to stabilize, use the peak and delta measurement to record the result.
- 3 The level displayed must comply with the limit specified in this Section. .
- 4 Repeat the test at the hopping off and hopping on mode, submit all the plots.

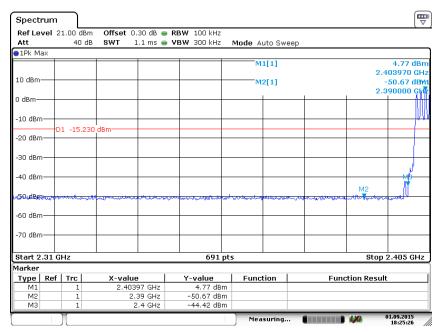
Limit:

According to §15.247(d), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB 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. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a) and RSS-Gen7.2.2, must also comply with the radiated emission limits specified in 15.209(a) (see Section 15.205(c)) and RSS-Gen.

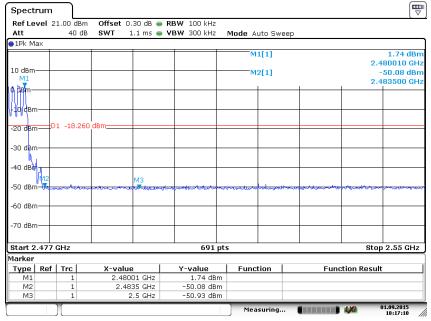


Band edge testing

GFSK Modulation Test Result: Hopping on mode:



Date: 1.SEP 2015 18:25:27

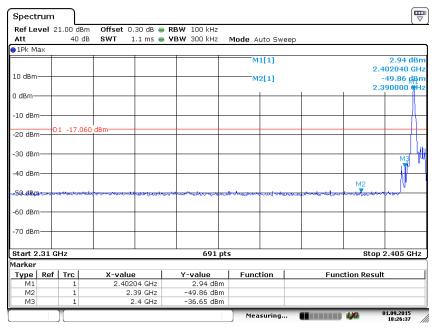


Date: 1.SEP.2015 18:17:10

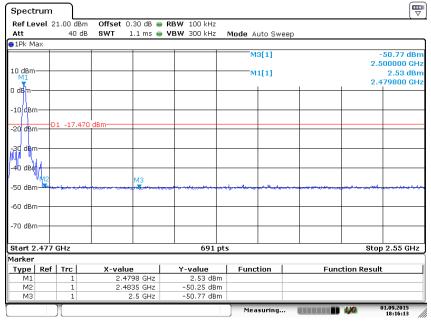


Band edge testing

Hopping off mode:



Date: 1.SEP.2015 18:26:37

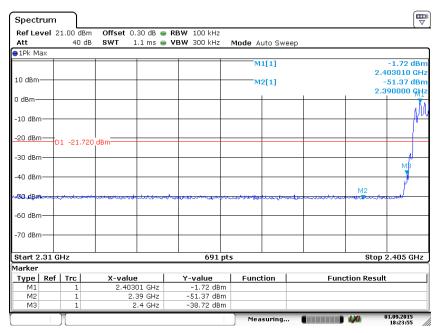


Date:1.SEP.2015 18:16:13

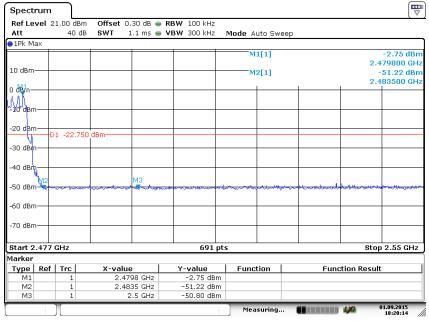


Band edge testing

8DPSK Modulation Test Result: Hopping on mode:



Date: 1.SEP 2015 18:23:56

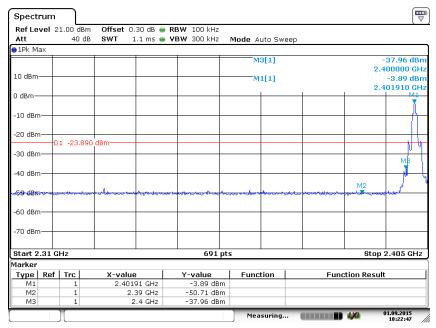


Date:1.SEP.2015 18:20:14

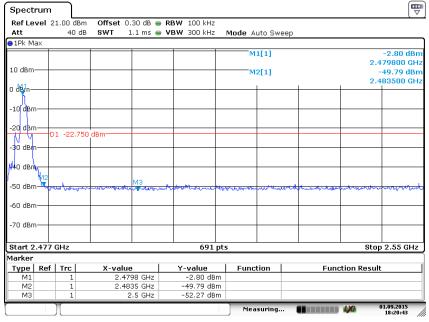


Band edge testing

Hopping off mode:



Date: 1.SEP.2015 18:22:47



Date:1.SEP.2015 18:20:44



9.9 Spurious radiated emissions for transmitter

Test Method

- 1. The EUT is placed on a turntable, which is 0.8m above ground plane.
- 2. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 3. Use the following spectrum analyzer settings:

 Span = wide enough to fully capture the emission being measured, RBW = 1 MHz for f ≥ 1GHz, 100 kHz for f < 1 GHz, VBW ≥ RBW, Sweep = auto, Detector function = peak,

 Trace = max hold
- 4. Follow the guidelines in ANSI C63.4-2009 with respect to maximizing the emission by rotating the EUT, adjusting the measurement antenna height and polarization, etc. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, submit this data. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 5. Set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the duty cycle per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from 20log(duty cycle/100 ms), in an effort to demonstrate compliance with the 15.209 limit. Submit this data.

Limit

According to part 15.247(d), the radio emission outside the operating frequency band shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. Radiated emissions which fall in the restricted bands, as defined in section 15.205, must comply with the radiated emission limits specified in section 15.209.

Frequency	Field Strength	Field Strength	Detector
MHz	uV/m	dBμV/m	
30-88	100	40	QP
88-216	150	43.5	QP
216-960	200	46	QP
960-1000	500	54	QP
Above 1000	500	54	AV
Above 1000	5000	74	PK



Spurious radiated emissions for transmitter

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

The only worse case (which is subject to the maximum EIRP, GFSK mode) test result is listed in the report.

Transmitting spurious emission test result as below:

Bluetooth Mode GFSK Modulation 2402MHz Test Result

Frequency	Emission Level	Polarization	Limit	Detector	Margin	Result
MHz	dBuV/m		dBμV/m		dBuV/m	
79.71	18.32	Horizontal	40.00	QP	21.68	Pass
97.42	18.99	Horizontal	43.50	QP	24.51	Pass
362.16	24.38	Horizontal	46.00	QP	21.62	Pass
49.89	24.97	Vertical	40.00	QP	15.03	Pass
80.44	25.19	Vertical	40.00	QP	14.81	Pass
96.93	24.46	Vertical	43.50	QP	19.04	Pass
137.49	24.05	Vertical	43.50	QP	19.45	Pass
*4804	51.02	Horizontal	74	PK	22.98	Pass
*4804	49.79	Vertical	74	PK	24.21	Pass

Bluetooth Mode GFSK Modulation 2441MHz Test Result

Frequency	Emission Level	Polarization	Limit	Detector	Margin	Result
MHz	dBuV/m		dBμV/m		dBuV/m	
*4882	51.32	Horizontal	74	PK	22.68	Pass
*4882	55.81	Vertical	74	PK	18.19	Pass
*4882	47.51	Vertical	54	AV	6.49	Pass

Bluetooth Mode GFSK Modulation 2480MHz Test Result

Frequency	Emission Level	Polarization	Limit	Detector	Margin	Result
MHz	dBuV/m		dBµV/m		dBuV/m	
*4960	47.66	Horizontal	74	PK	26.34	Pass
*4960	54.16	Vertical	74	PK	19.84	Pass
*4960	48.61	Vertical	54	AV	5.39	Pass

Remark:

- (1) AV Emission Level= PK Emission Level+20log(dutycycle)
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20db below the permissible limits or the field strength is too small to be measured.
- (3) "*" means the emission(s) appear within the restrict bands shall follow the requirement of section 15.205.



10 Test Equipment List

List of Test Instruments

		NAANU (E 4 OT) (5			
	DESCRIPTION	MANUFACTUR ER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
CE	EMI Test Receiver	Rohde & Schwarz	ESR 3	101782	2016-7-24
	LISN	Rohde & Schwarz	ENV4200	100249	2016-7-24
	LISN	Rohde & Schwarz	ENV216	100326	2016-7-24
	ISN	Rohde & Schwarz	ENY81	100177	2016-7-24
	ISN	Rohde & Schwarz	ENY81-CA6	101664	2016-7-24
	High Voltage Probe	Rohde & Schwarz	TK9420(VT9 420)	9420-58	2016-7-24
	RF Current Probe	Rohde & Schwarz	EZ-17	100816	2016-7-24
RE	Signal Analyzer	Rohde & Schwarz	FSV40	101031	2016-7-24
	Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9163	708	2016-7-31
	Horn Antenna	Rohde & Schwarz	HF907	102295	2016-7-24
	Wideband Horn Antenna	Q-PAR	QWH-SL-18- 40-K-SG	12827	2017-10-21
	Pre-amplifier	Rohde & Schwarz	SCU 18	102230	2016-7-24
	Pre-amplifier	Rohde & Schwarz	SCU 40A	100432	2016-7-24
	Fully Anechoic Chamber	TDK	8X4X4		2019-5-29
Conducted	Signal Analyzer	Rohde & Schwarz	FSV40	101030	2016-7-24



11 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

System Measurement Uncertainty				
Test Items	Extended Uncertainty			
Uncertainty for Conducted Emission 150kHz-	3.50dB			
30MHz (for test using AMN ENV216 or				
ENV4200)	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Uncertainty for Radiated Spurious Emission	Horizontal: 4.95dB;			
25MHz-3000MHz	Vertical: 5.02dB;			
Uncertainty for Radiated Spurious Emission	Horizontal: 4.89dB;			
3000MHz-18000MHz	Vertical: 4.88dB;			
Uncertainty for Radiated Spurious Emission	Horizontal: 4.93dB;			
18000MHz-40000MHz	Vertical: 4.92dB;			
Uncertainty for Conducted RF test with TS	Power level test involved: 2.04dB			
8997	Frequency test involved:1.1×10 ⁻⁷			