

# FCC ID TEST REPORT

: Shenzhen E-BOUR Technology Co., Ltd.			
RM606, BLD. K, Baoshan Industrial Zone, Minzhi,			
Longhua, Bao'an District, Shenzhen, China.			
A LED Bulb With Bluetooth Speaker With APP Control			
EBBS0001-1Y			
2ADLQ1Y			
FCC CFR Title 47 Part 15 Subpart C Section 15.247:2013			
FCC Public Notice DA 00-705-Filing and Measurement			
Guidelines for Frequency Hopping SpreadSpectrum Systems			
03 November 2014 to 17 November 2014			
17.)			
17 November 2014			
POCE14092834YRF			
FOCE140928341 KF			
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The results detailed in this test report relate only to the specific sample(s) tested. It is the Application's responsibility to ensure that all production units are manufactured with equivalent EMC characteristics. This report is not to be reproduced except in full, without written approval from Shenzhen POCE Technology Co., Ltd..

# **Table of Contents**

1.0 General Information	4
1.1 Client details	4
1.2 Test lab details	4
1.3 Description of E.U.T.	5
1.4 AE used during the test	5
2.0 Test summary	6
3.0 E.U.T. modification	6
4.0 Measurement Uncertainty	6
5.0 Antenna Requirement	7
5.1 Standard applicable	7
5.2 Antenna specification	7
6.0 Power Line Conducted Emission Test	8
6.1 Test equipment	8
6.2 Test method and test procedure	8
6.3 Block diagram of test setup	8
6.4 E.U.T. operating condition	8
6.5 Power line conducted emission limit according to paragraph 15.207	8
6.6 Test specification	8
6.7 Test result	8
7.0 Maximum Peak Output Power	11
7.1 Test equipment	11
7.2 Test specification	11
7.3 Test procedure	11
7.4 Limits	11
7.5 Test result	11
8.0 20dB Bandwidth Measurement	17
8.1 Test equipment	17
8.2 Test specification	17
8.3 Limit	17
8.4 Test status	17
8.5 Test result	17
9.0 Carrier Frequency Separation	21
9.1 Test equipment	21
9.2 Test specification	21
9.3 Test procedure	21
9.4 Limits	21
9.5 Test status	21
9.6 Test result	21
10.0 Number of Hopping Channels	25
10.1 Test equipment	25
10.2 Test specification	25
10.3 Test procedure	25
10.4 Limits	25
H Building, Hongfa science and Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, China	Page 2 of 40

# Shenzhen POCE Technology Co., Ltd.

# Report No.: POCE14092834YRF FCC ID: 2ADLQ1Y

10.5 Test status	25
10.6 Test result	25
11.0 Time of Occupancy (Dwell Time)	27
11.1 Test equipment	27
11.2 Test specification	
11.3 Test procedure	27
11.4 Limits	
11.5 Test status	27
11.6 Test result	
12.0 Band edge Measurement	
12.1 Test equipment	31
12.2 Limit	31
12.3 Test specification	31
12.4 Test procedure	
12.5 Test status	
12.6 Test result	31
13.0 Spurious Emission Test.	34
13.1 Test equipment	34
13.2 Radiated emission limit	34
13.3 E.U.T. operating condition	34
13.4 Block diagram of test setup	35
13.5 Test method and test procedure	36
13.6 Test specification	
13.7 Test result	36

# 1.0 General Information

### 1.1 Client details

Applicant:	Shenzhen E-BOUR Technology Co., Ltd.				
Address:	RM606, BLD. K, Baoshan Industrial Zone, Minzhi, Longhua, Bao'an District,				
	Shenzhen, China.				
Manufacturer:	Shenzhen E-BOUR Technology Co., Ltd.				
Address:	RM606, BLD. K, Baoshan Industrial Zone, Minzhi, Longhua, Bao'an District,				
	Shenzhen, China.				

### 1.2 Test lab details

Name:	Shenzhen POCE Technology Co.,Ltd.		
Address:	Room 502, Bldg. 1, Xinghua Garden, Baoan Road Xixiang, Baoan District, Shenzhen,		
	China		
Telephone:	86-755-29113252		
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Site Listed with Federal Communication Commission

Registration Number: 222278

For 3m chamber

# 1.3 Description of E.U.T.

Product:	A LED Bulb With Bluetooth Speaker With APP Control
Model No.:	EBBS0001-1Y
Additional Model No.:	EBBS0001-6B, EBBS0001-5B, EBBS0001-4P, EBBS0001-3B, EBBS0001-2B,
	EBBS0001-0W
Brand Name	N/A
Bluetooth Version	3.0+EDR
Operation Frequency:	2402~2480MHz
Modulation Type:	GFSK, Pi/4QDPSK, 8DPSK
Transfer Data Rate	1/2/3 Mbps
Channel number:	79
Channel spacing:	1 MHz
Antenna Designation:	An integral antenna and the maximum antenna gain is 0dBi.
Rating:	AC 120 V/60 Hz

#### Channel list:

Channel	Frequency (MHz)						
1	2402	21	2422	41	2442	61	2462
2	2403	22	2423	42	2443	62	2463
3	2404	23	2424	43	2444	63	2464
4	2405	24	2425	44	2445	64	2465
5	2406	25	2426	45	2446	65	2466
6	2407	26	2427	46	2447	66	2467
7	2408	27	2428	47	2448	67	2468
8	2409	28	2429	48	2449	68	2469
9	2410	29	2430	49	2450	69	2470
10	2411	30	2431	50	2451	70	2471
11	2412	31	2432	51	2452	71	2472
12	2413	32	2433	52	2453	72	2473
13	2414	33	2434	53	2454	73	2474
14	2415	34	2435	54	2455	74	2475
15	2416	35	2436	55	2456	75	2476
16	2417	36	2437	56	2457	76	2477
17	2418	37	2438	57	2458	77	2478
18	2419	38	2439	58	2459	78	2479
19	2420	39	2440	59	2460	79	2480
20	2421	40	2441	60	2461		

Remark: All tests were conducted in three channels: Low channel: 2402MHz, Middle channel: 2441MHz, High channel: 2480MHz

# 1.4 AE used during the test

Equipment type	Model	Manufacturer	FCC Approval
N.A.			
N.A.			
N.A.			

# 2.0 Test summary

Section in CFR 47	Test Item	Result
15.203,15.247(c)	Antenna Requirement	Complies
15.207(a)	AC Power Line Conducted Emission	Complies
15.247(b)(3)	Maximum Peak Output Power	Complies
15.247 (a)(1), 15.215(c)	20dB Channel Bandwidth	Complies
15.247 (a)(1)	Carrier Frequency Separation	Complies
15.247(a)(iii)	Number of Hopping Channels	Complies
15.247(a)(iii)	Time of Occupancy (Dwell Time)	Complies
15.247 (d), 15.205 (a), 15.209 (a)	Band age Measurement	Complies
15.209	Radiated Emission	Complies

# 3.0 E.U.T. modification

No modification by Shenzhen POCE Technology Co., Ltd

# **4.0 Measurement Uncertainty**

(95% confidence levels, k=2)

No.	Item	MU
1.	Radio Frequency	$\pm 1 \times 10^{-9}$
2.	Temperature	±0.1℃
3.	Humidity	±1.0%
4.	RF power, conducted	±0.34dB
5.	Spurious emissions, conducted	±2.72dB
6.	All emissions, radiated	±3.84dB

# **5.0** Antenna Requirement

### 5.1 Standard applicable

For intentional device, according to FCC 47 CFR Section 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.

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

### 5.2 Antenna specification

According to the manufacturer declared, the E.U.T. has an integral antenna; and no consideration of replacement. Therefore the E.U.T. is considered sufficient to comply with the provision.



**Antenna** 

### 6.0 Power Line Conducted Emission Test

### 6.1 Test equipment

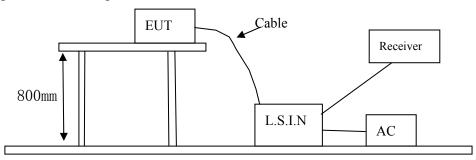
Instrument Type	Model	Serial No.	Manufacturer	Date of Cal.	Due Date
EMI Test Receiver	ESCS30	100139	R&S	Nov. 16, 2014	Nov. 15, 2015
LISN	LS16C	16010222119	AFJ	Nov. 16, 2014	Nov. 15, 2015

### 6.2 Test method and test procedure

The E.U.T. was tested according to ANSI C63.10-2009. The Frequency spectrum From 0.15MHz to 30MHz was investigated.

Test Voltage: 120V~, 60Hz

### 6.3 Block diagram of test setup



### 6.4 E.U.T. operating condition

Operating condition is according to ANSI C63.10 -2009

- 1) Setup the E.U.T. and simulators as shown on the following
- 2) Enable AF signal and confirm E.U.T. active to normal condition

### 6.5 Power line conducted emission limit according to paragraph 15.207

Fraguanay(MHz)	Class A Lir	Class A Limits (dB $\mu$ V)		nits (dB µ V)
Frequency(MHz)	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
$0.15 \sim 0.50$	79.0	66.0	66.0~56.0*	56.0~46.0*
$0.50 \sim 5.00$	73.0	60.0	56.0	46.0
5.00 ~ 30.00	73.0	60.0	60.0	50.0

Notes: 1) \*Decreasing linearly with logarithm of frequency.

2) The tighter limit shall apply at the transition frequencies

### 6.6 Test specification

Environmental conditions: Temperature: 25° C Humidity: 50% Atmospheric pressure: 103kPa

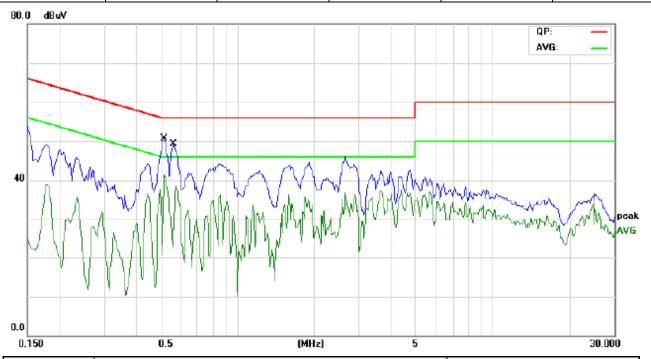
#### 6.7 Test result

Pass.

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

E.U.T. Description:	A LED Bulb With Bluetooth Speaker With APP Control			
Operation Mode: Tx mode				
Tested By:	Bill			
Test date:	November. 05, 2014			

Start Frequency	Stop Frequency	Step	IF BW	Detector	Final M-Time
0.15MHz	30MHz	4.5KHz	10KHz	QP+AV	1s

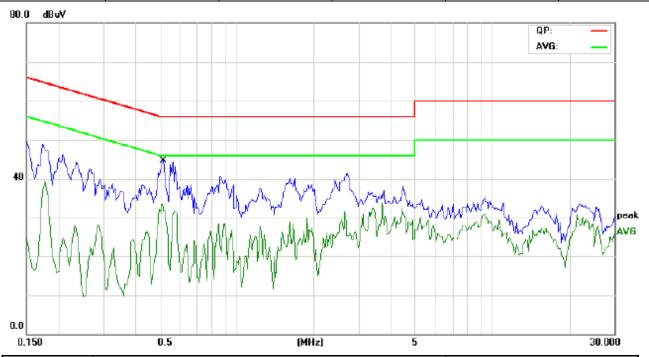


Eraguanav		Readir	Liı	nit			
Frequency (MHz)	Live	Live		Neutral		(dB μ V)	
(WITIZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average	
0.5172	47.15	37.19	-	-	56.00	46.00	
0.5641	45.04	35.55			56.00	46.00	

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

E.U.T. Description:	A LED Bulb With Bluetooth Speaker With APP Control			
Operation Mode:	ation Mode: Tx mode			
Tested By:	Bill			
Test Data:	November. 05, 2014			

Start Frequency	Stop Frequency	Step	IF BW	Detector	Final M-Time
0.15MHz	30MHz	4.5KHz	10KHz	QP+AV	1s



Eraguanav	Reading(dB μ V)				Lim	nit
Frequency (MHz)	Live		Neutral		(dB µ V)	
(MHZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.5172			38.31	29.59	56.00	46.00

# 7.0 Maximum Peak Output Power

### 7.1 Test equipment

Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
Spectrum Analyzer	ROHDE&SCHWARZ	FSEM	848597/001	Nov. 16, 2014	Nov. 15, 2015

### 7.2 Test specification

Environmental conditions: Temperature 24° C Humidity: 50% Atmospheric pressure: 103kPa

#### 7.3 Test procedure

- 1) Check the calibration of the measuring instrument (spectrum analyzer) using either an internal calibrator or a known signal from an external generator.
- 2) Set the spectrum analyzer as follows: Span = approximately 5 times the 20 dB bandwidth, centred on a hopping channel; RBW > the 20 dB bandwidth of the emission being measured; VBW \geq RBW; Sweep =auto; Detector function = peak; Trace = max hold
- 3) Measure the highest amplitude appearing on spectral display and record the level to calculate results.
- 4) Repeat above procedures until all frequencies measured were complete.

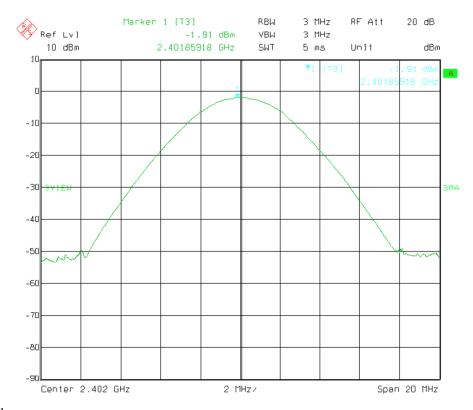
#### 7.4 Limits

According to §15.247(b)(1), for frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5MHz band: 0.125 watts. According to §15.247(b)(4), the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

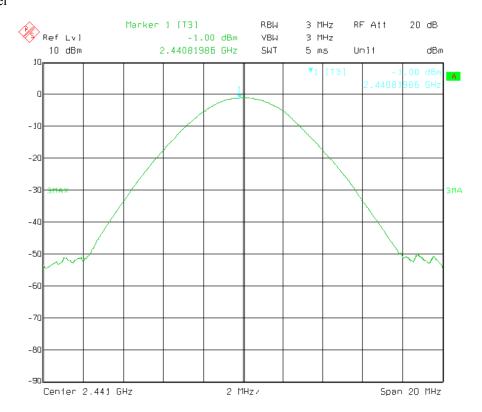
#### 7.5 Test result

Modulation Type	Channel Frequency (MHz)	Peak Power Output (dBm)	Peak Power Limit (mW)	Peak Power Limit (dBm)	Pass/ Fail
	2402	-1.91	125	20.97	Pass
GFSK	2441	-1.00	125	20.97	Pass
	2480	-0.07	125	20.97	Pass
	2402	-2.77	125	20.97	Pass
Pi/4 QDPSK	2441	-2.12	125	20.97	Pass
	2480	-1.61	125	20.97	Pass
	2402	-2.62	125	20.97	Pass
8 DPSK	2441	-1.81	125	20.97	Pass
	2480	-1.21	125	20.97	Pass

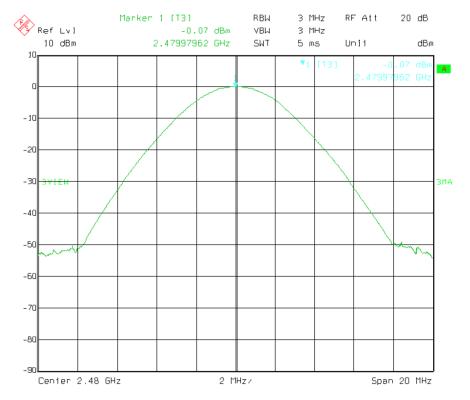
Modulation: GFSK Low channel



#### Middle channel

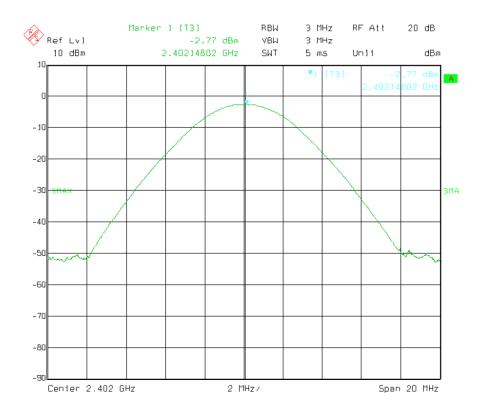


### High channel

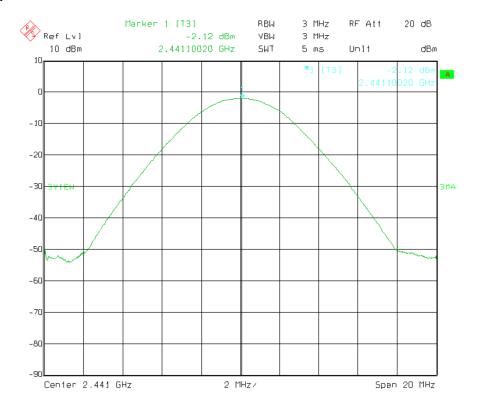


Modulation: Pi/4 DQPSK

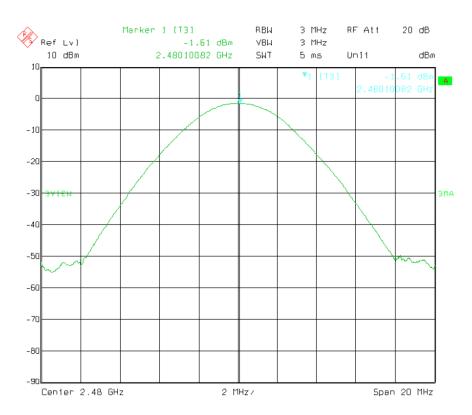
Low channel



#### Middle channel

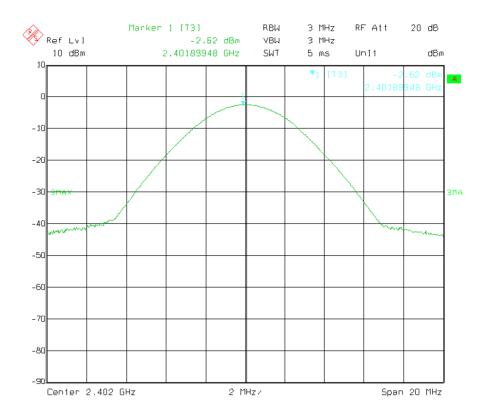


### High channel

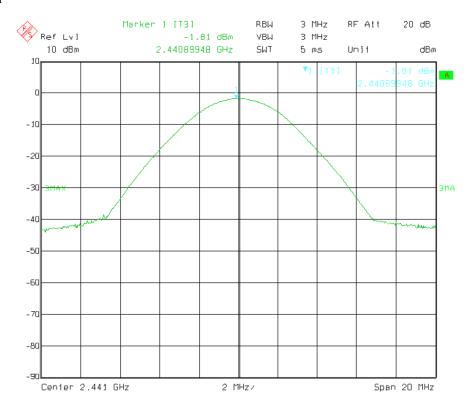


Modulation: 8DPSK

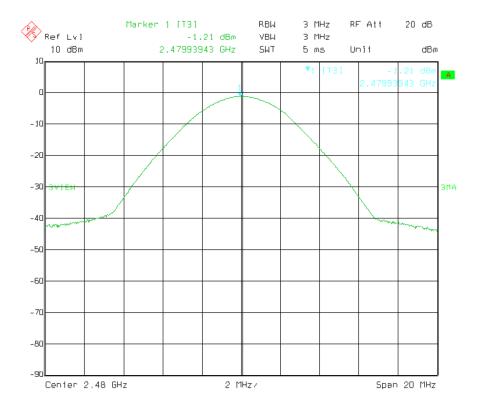
Low channel



#### Middle channel



### High channel



### 8.0 20dB Bandwidth Measurement

### 8.1 Test equipment

Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
Spectrum Analyzer	ROHDE&SCHWARZ	FSEM	848597/001	Nov. 16, 2014	Nov. 15, 2015

### 8.2 Test specification

Environmental conditions: Temperature 23° C Humidity: 51% Atmospheric pressure: 103kPa

#### 8.3 Limit

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

#### 8.4 Test status

Pre-tests were made in continuous transmitting mode at lowest (2402 MHz), middle (2441 MHz) and highest (2480MHz) channel with GFSK, Pi/4 QDPSK and 8DPSK mode, which indicates that the worst case is 8DPSK mode, so it is reported GFSK and 8DPSK mode only.

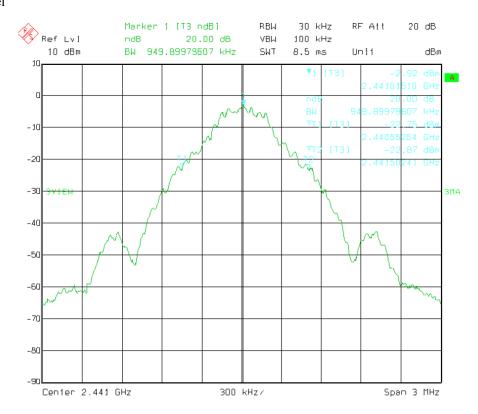
### 8.5 Test result

Modulation Type	Channel number	20dB Bandwidth (kHz)	Limit (kHz)	Conclusion
	Low	889.8		PASS
GFSK	Middle	949.9		PASS
	High	889.8		PASS
	Low	1244.5		PASS
8DPSK	Middle	1310.6		PASS
	High	1250.5		PASS

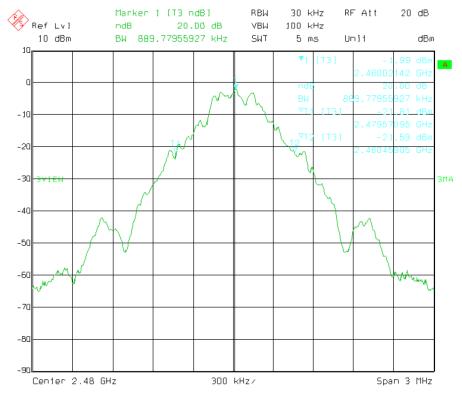
Modulation: GFSK Low channel



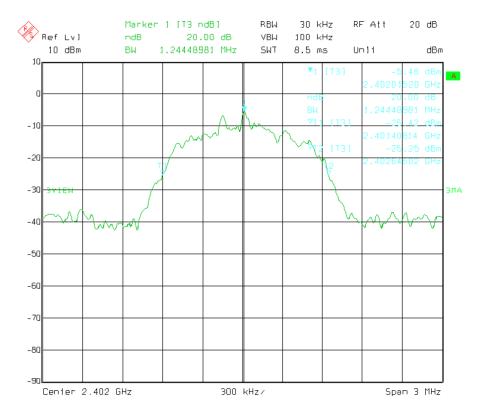
#### Middle channel



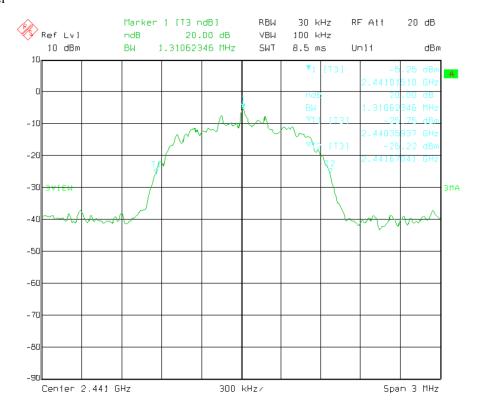
### High channel



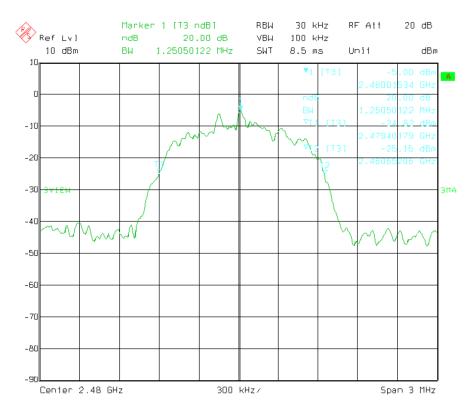
Modulation: 8DPSK Low channel



#### Middle channel



### High channel



# 9.0 Carrier Frequency Separation

### 9.1 Test equipment

Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
Spectrum Analyzer	ROHDE&SCHWARZ	FSEM	848597/001	Nov. 16, 2014	Nov. 15, 2015

### 9.2 Test specification

Environmental conditions: Temperature 25° C Humidity: 50% Atmospheric pressure: 103kPa

#### 9.3 Test procedure

- 1. Set the spectrum analyzer as follows: Span = wide enough to capture the peaks of two adjacent channels: Resolution (or IF) Bandwidth (RBW)  $\geq$  1% of the span; Video (or Average) Bandwidth (VBW)  $\geq$  RBW; Sweep = auto; Detector function = peak; Trace = max hold
- 2. Measure the separation between the peaks of the adjacent channels using the marker-delta function.
- 3. Repeat above procedures until all frequencies measured were complete.

#### 9.4 Limits

According to §15.247(a)(1), frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

#### 9.5 Test status

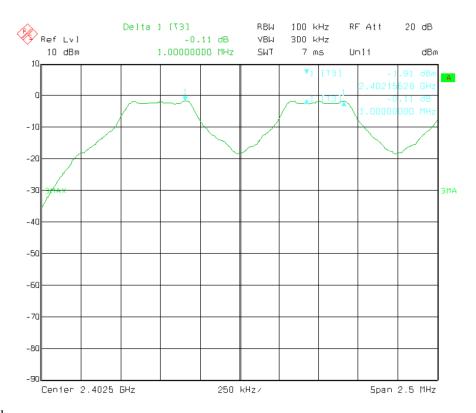
Pre-tests were made in continuous transmitting mode at lowest (2402 MHz), middle (2441 MHz) and highest (2480MHz) channel with GFSK, Pi/4 QDPSK and 8DPSK mode, which indicates that the worst case is 8DPSK mode, so it is reported GFSK and 8DPSK mode only.

### 9.6 Test result

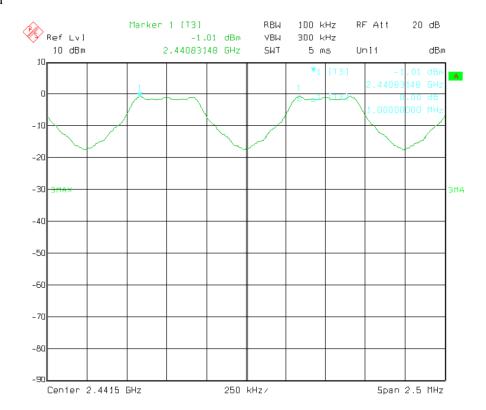
Modulation Type	Channel number	Carrier Frequency	Limit	Pass/ Fail
		Separation		
	Low	1.000MHz	≥ 25 kHz or	Pass
GFSK	Middle	1.000MHz	two-thirds 20 dB bandwidth	Pass
	High	1.000MHz	20 db bandwidin	Pass
	Low	1.000MHz	≥ 25 kHz or	Pass
8DPSK	Middle	1.000MHz	two-thirds 20 dB bandwidth	Pass
	High	1.000MHz	20 db bandwidth	Pass

Note: Two-thirds 20 dB bandwidth: GFSK: 633.3 kHz; 8DPSK: 873.7 kHz

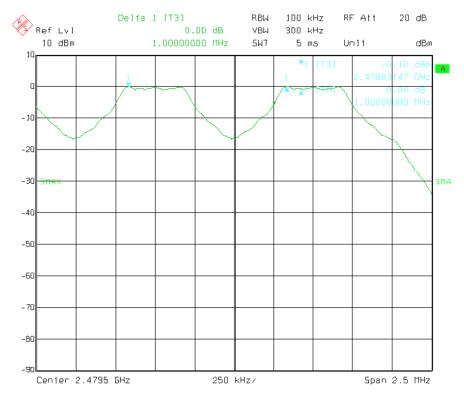
Modulation: GFSK Low channel



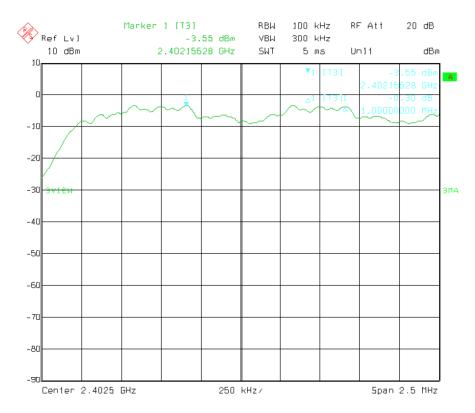
#### Middle channel



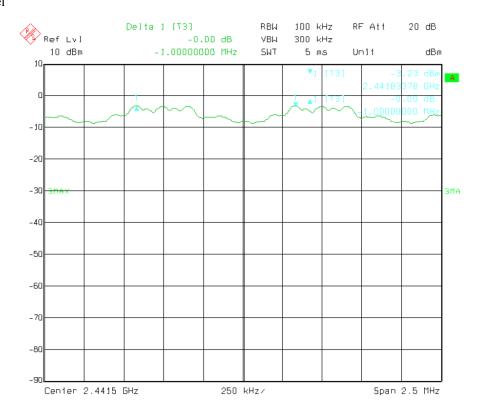
### High channel



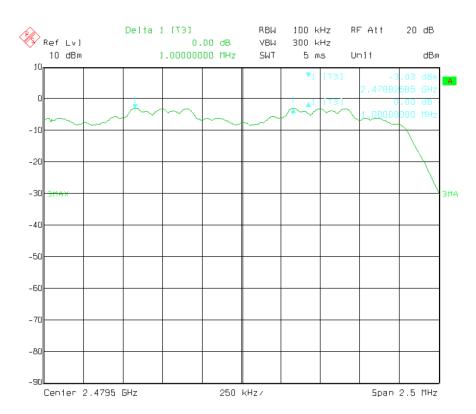
Modulation: 8DPSK Low channel



#### Middle channel



### High channel



# **10.0 Number of Hopping Channels**

### 10.1 Test equipment

Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
Spectrum Analyzer	ROHDE&SCHWARZ	FSEM	848597/001	Nov. 16, 2013	Nov. 15, 2014

### 10.2 Test specification

Environmental conditions: Temperature 25° C Humidity: 50% Atmospheric pressure: 103kPa

### 10.3 Test procedure

Set the spectrum analyzer as follows: Span = the frequency band of operation; RBW  $\geq$  1% of the span; VBW  $\geq$  RBW; Sweep = auto; Detector function = peak; Trace = max hold

#### 10.4 Limits

According to §15.247(a)(1)(iii), frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels

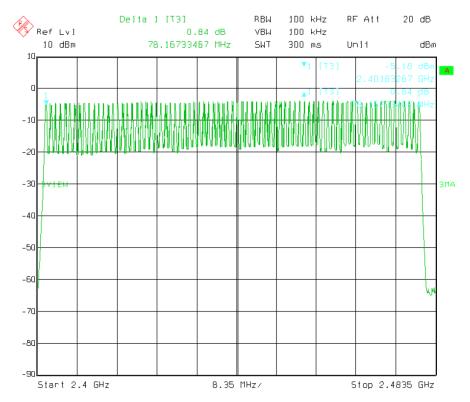
#### 10.5 Test status

Pre-tests were made in continuous transmitting mode at lowest (2402 MHz), middle (2441 MHz) and highest (2480MHz) channel with GFSK, Pi/4 QDPSK and 8DPSK mode, which indicates that the worst case is 8DPSK mode, so it is reported GFSK and 8DPSK mode only.

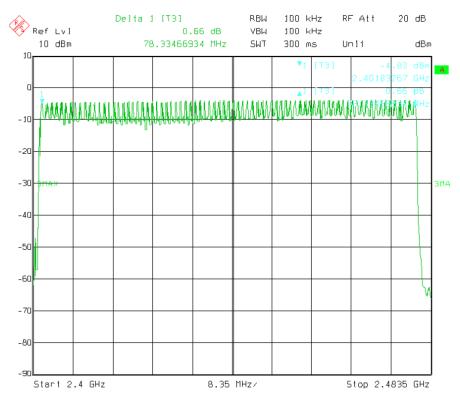
#### 10.6 Test result

Modulation Type	Operating Frequency	Number of hopping channels	Limit	Pass/ Fail
GFSK	2402-2480MHz	79	≥ 15	Pass
8DPSK	2402-2480MHz	79	≥ 15	Pass

### Modulation Type: GFSK



### Modulation Type: 8DPSK



# 11.0 Time of Occupancy (Dwell Time)

### 11.1 Test equipment

Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
Spectrum Analyzer	ROHDE&SCHWARZ	FSEM	848597/001	Nov. 16, 2013	Nov. 15, 2014

#### 11.2 Test specification

Environmental conditions: Temperature 22° C Humidity: 52% Atmospheric pressure: 103kPa

### 11.3 Test procedure

Span = zero span, centred on a hopping channel; RBW = 1 MHz; VBW ≥ RBW; Detector function = peak; Sweep = as necessary to capture the entire dwell time per hopping channel; Trace = max hold

Measure the dwell time using the marker-delta function.

Repeat this test for different modes of operation (e.g., data rate, modulation format, etc.), if applicable.

#### 11 4 Limits

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed

#### 11.5 Test status

Pre-tests were made in continuous transmitting mode at lowest (2402 MHz), middle (2441 MHz) and highest (2480MHz) channel with GFSK, Pi/4 QDPSK and 8DPSK mode, which indicates that the worst case is 8DPSK mode, so it is reported GFSK and 8DPSK mode only.

### 11.6 Test result

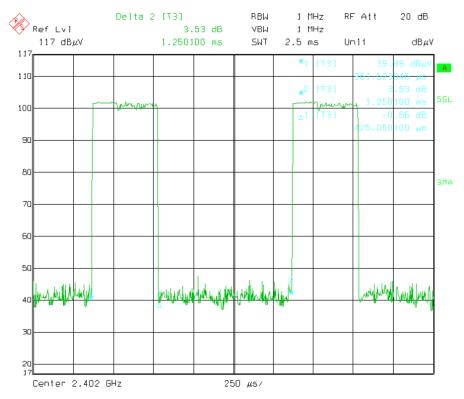
Modulation Type	Packet	Reading (ms)	Hoping Rate	Actual (s)	Limit (s)
	DH1	0.425	800hop/s	0.136	0.4
GFSK	DH3	1.710	400hop/s	0.274	0.4
	DH5	3.030	266.667hop/s	0.323	0.4
	DH1	0.430	800hop/s	0.138	0.4
8DPSK	DH3	1.700	400hop/s	0.272	0.4
	DH5	2.985	266.667hop/s	0.318	0.4

Note: 1) The measurements were conducted in High, Middle, Low channel. The Low channel could represent the character of the other channels, so the low channel measurement was submitted in the report only.

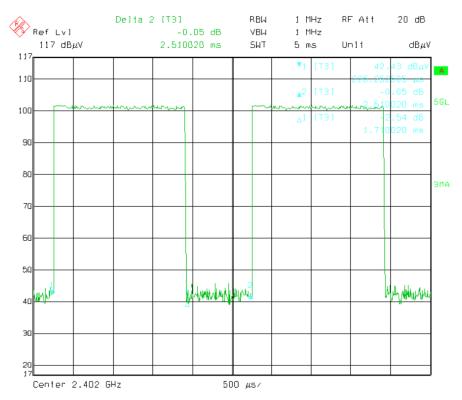
- 2) Actual = Reading  $\times$  (Hopping rate / Number of channels)  $\times$  Test period
- 3) The E.U.T. makes worst case 1600 hops per second or 1 time slot has a length of 625µs with 79 channels. A DH5 Packet needs 5 time slot for transmitting and 1 time slot for receiving. So the E.U.T. makes worst case 266.667 hops per second with 79 channels, and the DH5 is the worst case.

Modulation Type: GFSK

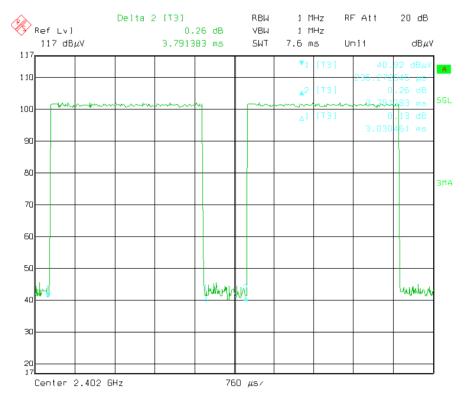
Packet Type: DH1



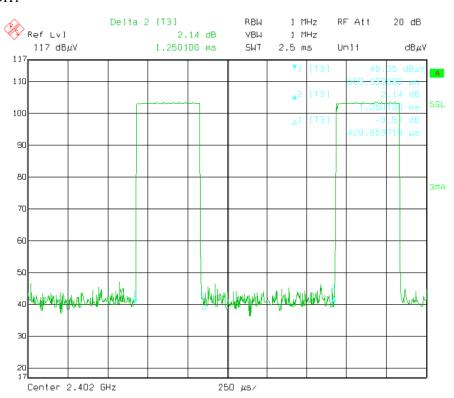
Packet Type: DH3



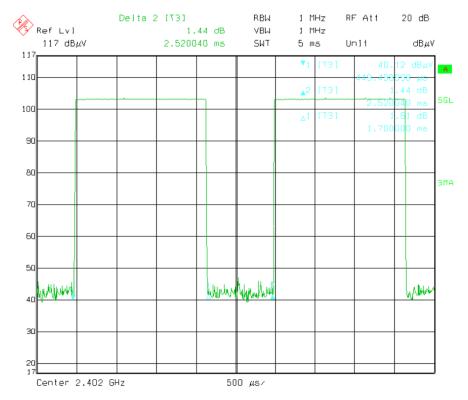
Packet Type: DH5



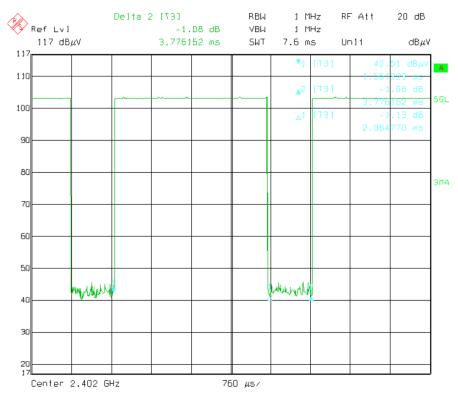
Modulation Type: 8DPSK Packet Type: 3-DH1



Packet Type: 3-DH3



Packet Type: 3-DH5



### 12.0 Band edge Measurement

### 12.1 Test equipment

Instrument Type	Model	Serial No.	Manufacturer	Date of Cal.	Due Date
Spectrum Analyzer	FSEM	848597/001	ROHDE&SCHWARZ	Nov. 16, 2014	Nov. 15, 2015
Pre-amplifier	8449B	3008A01738	Agilent	Nov. 15, 2014	Nov. 14, 2015
Horn Antenna	3117		ETS LINDGREN	Nov. 15, 2014	Nov. 14, 2015

#### 12.2 Limit

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 15.209(a)

#### 12.3 Test specification

Environmental conditions: Temperature 22° C Humidity: 52% Atmospheric pressure: 103kPa

#### 12.4 Test procedure

For band edge test, the spectrum set as follows: RBW=VBW=100 kHz. A conducted measure method is used For signals allocated in the restricted bands above and below the 2.4-2.4835 GHz, a radiated measurement is made (Peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector)

### 12.5 Test status

Pre-tests were made in continuous transmitting mode at lowest (2402 MHz), middle (2441 MHz) and highest (2480MHz) channel with GFSK, Pi/4 QDPSK and 8DPSK mode, which indicates that the worst case is 8DPSK mode, so it is reported GFSK and 8DPSK mode only.

#### 12.6 Test result

Pass

Modulation: GFSK

Low channel	: 2402 MHz						
Frequency	Peak Read	Antenna	Cable Loss	Preamp	Peak Final	Average	Antenna
(MHz)	Level	Factor	(dB)	Factor (dB)	Level	Limits	Polarity
	(dBuV)	(dB/m)			(dBuV/m)	(dBuV/m)	
2310	43.16	27.34	2.32	32.14	40.68	54.00	Horizontal
2389.20	45.84	28.29	2.45	32.33	44.25	54.00	Horizontal
2390	53.21	28.29	2.45	32.33	51.62	54.00	Horizontal
2310	40.08	27.34	2.32	32.14	37.60	54.00	Vertical
2389.20	41.67	28.29	2.45	32.33	40.08	54.00	Vertical
2390	49.47	28.29	2.45	32.33	47.88	54.00	Vertical
High channel	: 2480 MHz						
Frequency	Peak Read	Antenna	Cable Loss	Preamp	Peak Final	Average	Antenna
(MHz)	Level	Factor	(dB)	Factor (dB)	Level	Limits	Polarity
	(dBuV)	(dB/m)			(dBuV/m)	(dBuV/m)	
2483.5	54.28	28.29	2.67	32.33	52.91	54.00	Horizontal
2491.88	48.94	28.29	2.67	32.33	47.57	54.00	Horizontal
2500	44.15	28.29	2.67	32.33	42.78	54.00	Horizontal
2483.5	50.16	28.29	2.67	32.33	48.79	54.00	Vertical
2491.88	44.38	28.29	2.67	32.33	43.01	54.00	Vertical
2500	40.19	28.29	2.67	32.33	38.82	54.00	Vertical

Modulation: 8DPSK

	Modulation. OBT OIL							
Low channel:	Low channel: 2402 MHz							
Frequency	Peak Read	Antenna	Cable Loss	Preamp	Peak Final	Average	Antenna	
(MHz)	Level	Factor	(dB)	Factor (dB)	Level	Limits	Polarity	
	(dBuV)	(dB/m)			(dBuV/m)	(dBuV/m)		
2310	43.11	27.34	2.32	32.14	40.63	54.00	Horizontal	
2389.20	45.73	28.29	2.45	32.33	44.14	54.00	Horizontal	
2390	53.19	28.29	2.45	32.33	51.60	54.00	Horizontal	
2310	40.34	27.34	2.32	32.14	37.86	54.00	Vertical	
2389.20	41.76	28.29	2.45	32.33	40.17	54.00	Vertical	
2390	49.61	28.29	2.45	32.33	48.02	54.00	Vertical	
High channel	2480 MHz							
Frequency	Peak Read	Antenna	Cable Loss	Preamp	Peak Final	Average	Antenna	
(MHz)	Level	Factor	(dB)	Factor (dB)	Level	Limits	Polarity	
	(dBuV)	(dB/m)			(dBuV/m)	(dBuV/m)		
2483.5	54.82	28.29	2.67	32.33	53.45	54.00	Horizontal	
2491.88	48.67	28.29	2.67	32.33	47.30	54.00	Horizontal	
2500	44.14	28.29	2.67	32.33	42.77	54.00	Horizontal	
2483.5	50.37	28.29	2.67	32.33	49.00	54.00	Vertical	
2491.88	44.62	28.29	2.67	32.33	43.25	54.00	Vertical	
2500	40.29	28.29	2.67	32.33	38.92	54.00	Vertical	

### Shenzhen POCE Technology Co., Ltd.

Modulation: GFSK

Modulation.	Wodulation. Of SK						
Keep hopping	3						
Frequency	Peak Read	Antenna	Cable Loss	Preamp	Peak Final	Average	Antenna
(MHz)	Level	Factor	(dB)	Factor (dB)	Level	Limits	Polarity
	(dBuV)	(dB/m)			(dBuV/m)	(dBuV/m)	
2310	43.24	27.34	2.32	32.14	40.76	54.00	Horizontal
2389.20	45.67	28.29	2.45	32.33	44.08	54.00	Horizontal
2390	53.28	28.29	2.45	32.33	51.69	54.00	Horizontal
2310	40.45	27.34	2.32	32.14	37.97	54.00	Vertical
2389.20	41.97	28.29	2.45	32.33	40.38	54.00	Vertical
2390	49.31	28.29	2.45	32.33	47.72	54.00	Vertical
Keep hopping	2						
Frequency	Peak Read	Antenna	Cable Loss	Preamp	Peak Final	Average	Antenna
(MHz)	Level	Factor	(dB)	Factor (dB)	Level	Limits	Polarity
	(dBuV)	(dB/m)			(dBuV/m)	(dBuV/m)	
2483.5	54.49	28.29	2.67	32.33	53.12	54.00	Horizontal
2491.88	48.37	28.29	2.67	32.33	47.00	54.00	Horizontal
2500	44.29	28.29	2.67	32.33	42.92	54.00	Horizontal
2483.5	50.77	28.29	2.67	32.33	49.40	54.00	Vertical
2491.88	44.36	28.29	2.67	32.33	42.99	54.00	Vertical
2500	40.54	28.29	2.67	32.33	39.17	54.00	Vertical

Report No.: POCE14092834YRF

FCC ID: 2ADLQ1Y

Modulation: 8DPSK

Keep hopping	9						
Frequency	Peak Read	Antenna	Cable Loss	Preamp	Peak Final	Average	Antenna
(MHz)	Level	Factor	(dB)	Factor (dB)	Level	Limits	Polarity
	(dBuV)	(dB/m)			(dBuV/m)	(dBuV/m)	
2310	43.87	27.34	2.32	32.14	41.39	54.00	Horizontal
2389.20	45.39	28.29	2.45	32.33	43.80	54.00	Horizontal
2390	53.47	28.29	2.45	32.33	51.88	54.00	Horizontal
2310	40.41	27.34	2.32	32.14	37.93	54.00	Vertical
2389.20	41.80	28.29	2.45	32.33	40.21	54.00	Vertical
2390	49.09	28.29	2.45	32.33	47.50	54.00	Vertical
Keep hopping	3						
Frequency	Peak Read	Antenna	Cable Loss	Preamp	Peak Final	Average	Antenna
(MHz)	Level	Factor	(dB)	Factor (dB)	Level	Limits	Polarity
	(dBuV)	(dB/m)			(dBuV/m)	(dBuV/m)	
2483.5	54.21	28.29	2.67	32.33	52.84	54.00	Horizontal
2491.88	48.19	28.29	2.67	32.33	46.82	54.00	Horizontal
2500	44.23	28.29	2.67	32.33	42.86	54.00	Horizontal
2483.5	50.46	28.29	2.67	32.33	49.09	54.00	Vertical
2491.88	44.37	28.29	2.67	32.33	43.00	54.00	Vertical
2500	40.88	28.29	2.67	32.33	39.51	54.00	Vertical

### Remark:

- 1) According to section 15.35(b), the peak limit is 20dB higher than the average limit
- 2) If the peak measured value complies with the average limit, it is unnecessary to perform an average measurement.
- 3) The emission levels of other frequencies are very lower than the limit and not shown in the report.

# 13.0 Spurious Emission Test

# 13.1 Test equipment

Instrument Type	Model	Serial No.	Manufacturer	Date of Cal.	Due Date
ESPI Test Receiver	ESPI 3	100379	ROHDE&SCHWARZ	Nov. 16, 2014	Nov. 15, 2015
Spectrum Analyzer	FSEM	848597/001	ROHDE&SCHWARZ	Nov. 16, 2014	Nov. 15, 2015
Pre-amplifier	LNA6900		Teseq	Nov. 15, 2014	Nov. 14, 2015
Pre-amplifier	8447D	83153007374	Agilent	Nov. 15, 2014	Nov. 14, 2015
Pre-amplifier	8449B	3008A01738	Agilent	Nov. 15, 2014	Nov. 14, 2015
Loop antenna	PLA-1030/B	1029	A.R.A.	Nov. 15, 2014	Nov. 14, 2015
Ultra Broadband ANT	HL562	100157	ROHDE&SCHWARZ	Nov. 15, 2014	Nov. 14, 2015
Horn Antenna	3117		ETS LINDGREN	Nov. 15, 2014	Nov. 14, 2015
Horn Antenna	3160		ETS LINDGREN	Nov. 15, 2014	Nov. 14, 2015

#### 13.2 Radiated emission limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

Frequencies in restricted band are complied to limit on Paragraph 15.209.

Frequency Range (MHz)	Distance (m)	Field strength (dB µ V/m)
0.009-0.490	3	20log 2400/F (kHz) + 80
0.490-1.705	3	20log 24000/F (kHz) + 40
1.705-30	3	20log 30 + 40
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

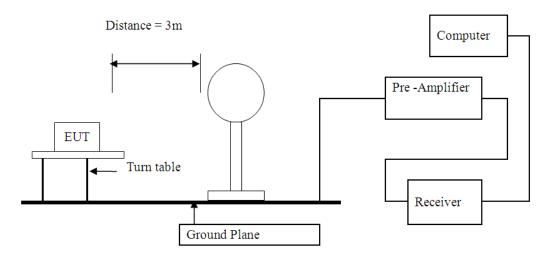
Note: 1) RF Voltage  $(dBuV) = 20 \log RF \text{ Voltage } (uV)$ 

- 2) In the Above Table, the tighter limit applies at the band edges.
- 3) Distance refers to the distance in meters between the measuring instrument antenna and the E.U.T.
- 4) This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.
- 5) All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz. As to 1G-25G, the final emission level got using PK and AV detector.
- 6) If measurement is made at 3m distance, then F.S Limitation at 3m distance is adjusted by using the formula Ld1 = Ld2 \* (d2/d1)

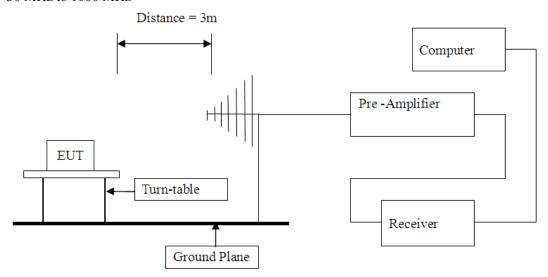
### 13.3 E.U.T. operating condition

Operating condition is according to ANSI C63.10 -2009

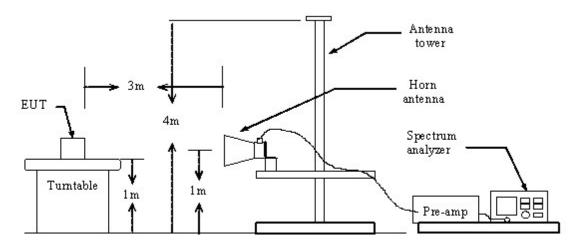
# 13.4 Block diagram of test setup Below 30 MHz



### 30 MHz to 1000 MHz



### Above 1000 MHz



### 13.5 Test method and test procedure

- 1) The E.U.T. was tested according to ANSI C63.10 –2009 and ANSI C63.4-2003.
- 2) The E.U.T., peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. For each suspected emissions, the antenna tower was scan from 1 m to 4 m and then the turntable was rotated from 0 degree to 360 degrees to find the maximum reading.
- 3) The frequency spectrum from 9 kHz to 25 GHz was investigated. All readings from 9 kHz to 30 MHz are quasi-peak values with a resolution bandwidth of 9 kHz. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz. Measurements were made at 3 meters.
- 4) Radiated emissions measured in frequencies above 1GHz were made (Peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector).
- 5) The antenna polarization: Vertical polarization and Horizontal polarization.

### 13.6 Test specification

Environmental conditions: Temperature 25° C Humidity: 50% Atmospheric pressure: 103kPa

#### 13.7 Test result

Pass

Radiated Emission (9 kHz-30 MHz)

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Limit@3m (dB \u03b4 V/m)

Note: 1) Emission Level=Reading+ Cable loss+ Antenna factor-Amp factor

2) The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement

### Shenzhen POCE Technology Co., Ltd.

Report No.: POCE14092834YRF FCC ID: 2ADLQ1Y

### Radiated Emission (30MHz-1000MHz)

Frequency	Read Level	Antenna Factor	Cable Loss	Preamp	Final Level	Limit	Antenna
(MHz)	(dBuV)	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	Polarity
46.2186	35.37	13.22	0.35	26.68	22.26	40.00	Horizontal
67.1675	29.22	14.52	0.46	26.84	17.36	40.00	Horizontal
96.3368	24.69	14.86	0.51	26.72	13.34	43.50	Horizontal
108.3924	31.62	15.24	0.58	26.81	20.63	43.50	Horizontal
256.1540	26.82	16.82	0.84	26.91	17.57	46.00	Horizontal
881.5249	41.75	19.67	1.76	26.75	36.43	46.00	Horizontal
40.2679	33.68	13.52	0.33	26.54	20.99	40.00	Vertical
45.9483	32.94	13.94	0.42	26.82	20.48	40.00	Vertical
106.3184	31.48	14.86	0.59	26.91	20.02	43.50	Vertical
240.0248	28.27	16.64	0.78	26.34	19.35	46.00	Vertical
642.6307	36.81	18.53	0.92	26.75	29.51	46.00	Vertical
884.1933	41.64	19.81	1.76	26.88	36.33	46.00	Vertical

Remark: Final Level= Read Level+Antenna Factor+Cable Loss-Preamp

### Harmonics Radiated Emission Data (1000MHz-25000MHz)

GFSK modu	lation, Low ch	annel					
Frequency	Peak Read	Antenna	Cable Loss	Preamp	Peak Final	Average	Antenna
(MHz)	Level	Factor	(dB)	Factor (dB)	Level	Limits	Polarity
	(dBuV)	(dB/m)			(dBuV/m)	(dBuV/m)	
4804	49.26	30.56	5.60	33.53	51.89	54.00	Horizontal
7206	34.61	35.41	7.24	33.82	43.44	54.00	Horizontal
9608						54.00	Horizontal
12010						54.00	Horizontal
14412						54.00	Horizontal
16814						54.00	Horizontal
19216						54.00	Horizontal
21618						54.00	Horizontal
24020						54.00	Horizontal
4804	45.29	30.56	5.60	33.53	47.92	54.00	Vertical
7206	31.27	35.41	7.24	33.82	40.10	54.00	Vertical
9608						54.00	Vertical
12010						54.00	Vertical
14412						54.00	Vertical
16814						54.00	Vertical
19216						54.00	Vertical
21618						54.00	Vertical
24020						54.00	Vertical
GFSK modu	lation, Middle	channel	•			•	1
Frequency	Peak Read	Antenna	Cable Loss	Preamp	Peak Final	Average	Antenna
(MHz)	Level	Factor	(dB)	Factor (dB)	Level	Limits	Polarity
	(dBuV)	(dB/m)			(dBuV/m)	(dBuV/m)	
4882	49.82	30.56	5.60	33.53	52.45	54.00	Horizontal
7323	36.48	35.41	7.24	33.82	45.31	54.00	Horizontal
9764						54.00	Horizontal
12205						54.00	Horizontal
14646						54.00	Horizontal
17087						54.00	Horizontal
19528						54.00	Horizontal
21969						54.00	Horizontal
24410						54.00	Horizontal
4882	47.18	30.56	5.60	33.53	49.81	54.00	Vertical
7323	33.45	35.41	7.24	33.82	42.28	54.00	Vertical
9764						54.00	Vertical
12205						54.00	Vertical
14646						54.00	Vertical
17087						54.00	Vertical
19528						54.00	Vertical
21969						54.00	Vertical
24410						54.00	Vertical

Frequency	Peak Read	Antenna	Cable Loss	Preamp	Peak Final	Average	Antenna
(MHz)	Level	Factor	(dB)	Factor (dB)	Level	Limits	Polarity
,	(dBuV)	(dB/m)		,	(dBuV/m)	(dBuV/m)	
4960	48.79	30.56	5.60	33.53	51.42	54.00	Horizonta
7440	34.64	35.41	7.24	33.82	43.47	54.00	Horizontal
9920						54.00	Horizonta
12400						54.00	Horizontal
14880						54.00	Horizonta
17360						54.00	Horizonta
19840						54.00	Horizonta
22320						54.00	Horizonta
24800						54.00	Horizontal
4960	43.87	30.56	5.60	33.53	46.50	54.00	Vertical
7440	33.69	35.41	7.24	33.82	42.52	54.00	Vertical
9920						54.00	Vertical
12400						54.00	Vertical
14880						54.00	Vertical
17360						54.00	Vertical
19840						54.00	Vertical
22320						54.00	Vertical
24800						54.00	Vertical
8DPSK mod	dulation, Low c	hannel					
Frequency	Peak Read	Antenna	Cable Loss	Preamp	D1 E'1	A	
		Tillelilla	Cubic Loss	1 I Camp	Peak Final	Average	Antenna
(MHZ)	Level	Factor		-	Peak Final Level	Average Limits	
(MHz)			(dB)	Factor (dB)		_	Antenna Polarity
(MHz) 4804	Level	Factor		-	Level	Limits	Polarity
	Level (dBuV)	Factor (dB/m)	(dB)	Factor (dB)	Level (dBuV/m)	Limits (dBuV/m)	
4804	Level (dBuV) 48.91	Factor (dB/m) 30.56	(dB) 5.60	Factor (dB) 33.53	Level (dBuV/m) 51.54	Limits (dBuV/m) 54.00	Polarity Horizonta
4804 7206	Level (dBuV) 48.91	Factor (dB/m) 30.56	(dB) 5.60	Factor (dB) 33.53	Level (dBuV/m) 51.54 43.10	Limits (dBuV/m) 54.00 54.00	Polarity Horizonta Horizonta
4804 7206 9608	Level (dBuV) 48.91	Factor (dB/m) 30.56	(dB) 5.60	Factor (dB) 33.53	Level (dBuV/m) 51.54 43.10	Limits (dBuV/m) 54.00 54.00 54.00	Polarity  Horizonta  Horizonta  Horizonta
4804 7206 9608 12010	Level (dBuV) 48.91	Factor (dB/m) 30.56	(dB) 5.60	Factor (dB) 33.53	Level (dBuV/m) 51.54 43.10	Limits (dBuV/m) 54.00 54.00 54.00 54.00	Polarity  Horizonta Horizonta Horizonta Horizonta Horizonta
4804 7206 9608 12010 14412	Level (dBuV) 48.91	Factor (dB/m) 30.56	(dB) 5.60	Factor (dB) 33.53	Level (dBuV/m) 51.54 43.10  	Limits (dBuV/m) 54.00 54.00 54.00 54.00 54.00	Polarity  Horizonta Horizonta Horizonta Horizonta Horizonta Horizonta
4804 7206 9608 12010 14412 16814	Level (dBuV) 48.91	Factor (dB/m) 30.56	(dB) 5.60	Factor (dB) 33.53	Level (dBuV/m) 51.54 43.10  	Limits (dBuV/m) 54.00 54.00 54.00 54.00 54.00 54.00	Polarity  Horizonta Horizonta Horizonta Horizonta Horizonta Horizonta Horizonta
4804 7206 9608 12010 14412 16814 19216	Level (dBuV) 48.91	Factor (dB/m) 30.56	(dB) 5.60	Factor (dB) 33.53	Level (dBuV/m) 51.54 43.10   	Limits (dBuV/m) 54.00 54.00 54.00 54.00 54.00 54.00 54.00	Polarity  Horizonta Horizonta Horizonta Horizonta Horizonta Horizonta Horizonta Horizonta
4804 7206 9608 12010 14412 16814 19216 21618	Level (dBuV) 48.91	Factor (dB/m) 30.56	(dB) 5.60	Factor (dB) 33.53	Level (dBuV/m) 51.54 43.10    	Limits (dBuV/m) 54.00 54.00 54.00 54.00 54.00 54.00 54.00	Polarity  Horizonta Horizonta Horizonta Horizonta Horizonta Horizonta Horizonta Horizonta
4804 7206 9608 12010 14412 16814 19216 21618 24020	Level (dBuV) 48.91 34.27	Factor (dB/m) 30.56 35.41	(dB) 5.60 7.24	33.53 33.82	Level (dBuV/m) 51.54 43.10    	Limits (dBuV/m) 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00	Polarity  Horizonta
4804 7206 9608 12010 14412 16814 19216 21618 24020 4804	Level (dBuV) 48.91 34.27	Factor (dB/m) 30.56 35.41	(dB) 5.60 7.24 5.60	33.53 33.82 33.53	Level (dBuV/m) 51.54 43.10      46.75	Limits (dBuV/m) 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00	Polarity  Horizonta Horizonta Horizonta Horizonta Horizonta Horizonta Horizonta Horizonta Vertical
4804 7206 9608 12010 14412 16814 19216 21618 24020 4804 7206	Level (dBuV) 48.91 34.27	Factor (dB/m) 30.56 35.41	(dB) 5.60 7.24 5.60	33.53 33.82 33.53	Level (dBuV/m) 51.54 43.10 46.75 42.48	Limits (dBuV/m) 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00	Polarity  Horizonta Horizonta Horizonta Horizonta Horizonta Horizonta Horizonta Horizonta Vertical
4804 7206 9608 12010 14412 16814 19216 21618 24020 4804 7206 9608	Level (dBuV) 48.91 34.27	Factor (dB/m) 30.56 35.41	(dB) 5.60 7.24 5.60	33.53 33.82 33.53	Level (dBuV/m) 51.54 43.10     46.75 42.48	Limits (dBuV/m) 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00	Polarity  Horizonta Horizonta Horizonta Horizonta Horizonta Horizonta Horizonta Vertical Vertical
4804 7206 9608 12010 14412 16814 19216 21618 24020 4804 7206 9608 12010	Level (dBuV) 48.91 34.27	Factor (dB/m) 30.56 35.41	(dB) 5.60 7.24 5.60	33.53 33.82 33.53	Level (dBuV/m) 51.54 43.10 46.75 42.48	Limits (dBuV/m) 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00	Polarity  Horizonta Horizonta Horizonta Horizonta Horizonta Horizonta Horizonta Vertical Vertical Vertical Vertical Vertical
4804 7206 9608 12010 14412 16814 19216 21618 24020 4804 7206 9608 12010 14412 16814	Level (dBuV) 48.91 34.27	Factor (dB/m) 30.56 35.41	(dB) 5.60 7.24 5.60	33.53 33.82 33.53	Level (dBuV/m) 51.54 43.10 46.75 42.48	Limits (dBuV/m) 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00	Polarity  Horizonta Horizonta Horizonta Horizonta Horizonta Horizonta Horizonta Vertical Vertical Vertical Vertical Vertical Vertical Vertical
4804 7206 9608 12010 14412 16814 19216 21618 24020 4804 7206 9608 12010 14412	Level (dBuV) 48.91 34.27	Factor (dB/m) 30.56 35.41	(dB) 5.60 7.24 5.60	33.53 33.82 33.53	Level (dBuV/m) 51.54 43.10 46.75 42.48	Limits (dBuV/m) 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00	Polarity  Horizonta Horizonta Horizonta Horizonta Horizonta Horizonta Horizonta Vertical Vertical Vertical Vertical Vertical

8DPSK mod	lulation, Midd	le channel					
Frequency	Peak Read	Antenna	Cable Loss	Preamp	Peak Final	Average	Antenna
(MHz)	Level	Factor	(dB)	Factor (dB)	Level	Limits	Polarity
	(dBuV)	(dB/m)			(dBuV/m)	(dBuV/m)	
4882	48.47	30.56	5.60	33.53	51.10	54.00	Horizontal
7323	35.21	35.41	7.24	33.82	44.04	54.00	Horizontal
9764						54.00	Horizontal
12205						54.00	Horizontal
14646						54.00	Horizontal
17087						54.00	Horizontal
19528						54.00	Horizontal
21969						54.00	Horizontal
24410						54.00	Horizontal
4882	45.71	30.56	5.60	33.53	48.34	54.00	Vertical
7323	33.67	35.41	7.24	33.82	42.50	54.00	Vertical
9764						54.00	Vertical
12205						54.00	Vertical
14646						54.00	Vertical
17087						54.00	Vertical
19528						54.00	Vertical
21969						54.00	Vertical
24410						54.00	Vertical
8DPSK mod	lulation, High	channel					
Frequency	Peak Read	Antenna	Cable Loss	Preamp	Peak Final	Average	Antenna
(MHz)	Level	Factor	(dB)	Factor (dB)	Level	Limits	Polarity
	(dBuV)	(dB/m)			(dBuV/m)	(dBuV/m)	
4804	46.49	30.56	5.60	33.53	49.12	54.00	Horizontal
7206	34.37	35.41	7.24	33.82	43.20	54.00	Horizontal
9608						54.00	Horizontal
12010						54.00	Horizontal
14412						54.00	Horizontal
16814						54.00	Horizontal
19216						54.00	Horizontal
21618						54.00	Horizontal
24020						54.00	Horizontal
4804	42.69	30.56	5.60	33.53	45.32	54.00	Vertical
7206	34.66	35.41	7.24	33.82	43.49	54.00	Vertical
9608						54.00	Vertical
12010						54.00	Vertical
14412						54.00	Vertical
16814						54.00	Vertical
19216						54.00	Vertical
1/210						5 1.00	, or croar
21618						54.00	Vertical

#### Remark:

- 1) According to section 15.35(b), the peak limit is 20dB higher than the average limit
- 2) If the peak measured value complies with the average limit, it is unnecessary to perform an average measurement.
- 3) "--" means this data is too weak to be able to test.
- 4) The emission levels of other frequencies are very lower than the limit and not shown in the report.
- 5) Pre-tests were made in continuous transmitting mode at lowest, middle and highest channel with GFSK, Pi/4 QDPSK and 8DPSK mode, which indicates that the worst case is 8DPSK mode, so it is reported GFSK and 8DPSK mode only.