

## **FCC - TEST REPORT**

Report Number	:	68.930.15.038.0	)1	Date of Issue:	October 19, 2015
Model	<u>:</u>	SD6 (Probe)			
Product Type	<u>:</u>	Ultrasonic Table	Тор Дорр	ler	
Applicant	<u>:</u>	EDAN INSTRUM	MENTS,IN	C.	
Address	<u>:</u>	3/F-B, Nanshan	Medical E	quipment Park, N	Nanhai Rd 1019#,
		Shekou, Nansha	an Shenzh	en, 518067 P.R.	CHINA
Production Facility	<u>:</u>	EDAN INSTRUM	MENTS,IN	C.	
Address	<u>:</u>	3/F-B, Nanshan	Medical E	quipment Park, N	Nanhai Rd 1019#,
		Shekou, Nansha	an Shenzh	en, 518067 P.R.	CHINA
Test Result	:	■ Positive	□ Negati	ve	
Total pages including Appendices	:	39			

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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

Number:

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



# 3 Description of the Equipment Under Test

Product: Ultrasonic TableTop Doppler

Model no.: SD6 (Probe)

FCC ID: SMQSD6PEDAN

Options and accessories: NIL

Rating: DC 3.7V By Rechargeable lithium battery (Ultrasonic transducer)

**RF** Transmission

Frequency:

2402-2480MHz

No. of Operated Channel: 79

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

Duty Cycle: Max 77%

Antenna Type: Integral Antenna

Antenna Gain: 0dBi

Description of the EUT: The Equipment Under Test (EUT) is a Ultrasonic TableTop Doppler

operated at 2.4GHz

Remark: The model of SD6 contains two units, one is Main Unit and another is Ultrasonic transducer.



# 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 Subpart 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)(2)	6dB bandwidth			N/A	
§15.247(a)(1)	20dB bandwidth and 99% Occupied Bandwidth	12	Site 1	Pass	
§15.247(a)(1)	Carrier frequency separation	18	Site 1	Pass	
§15.247(a)(1)(iii)	Number of hopping frequencies	21	Site 1	Pass	
§15.247(a)(1)(iii)	Dwell Time	23	Site 1	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 and receiver	35	Site 1	Pass	
§15.203	Antenna requirement	See	note 2	Pass	

Note 1: N/A=Not Applicable.

Note 2: The EUT uses a Embedded Type antenna, which gain is 0dBi. 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: SMQSD6PEDAN 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 10, 2015

Testing Start Date: August 11, 2015

Testing End Date: September 14, 2015

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

Reviewed by: Prepared by:

John Zhi

EMC Project Manager

Johnshi

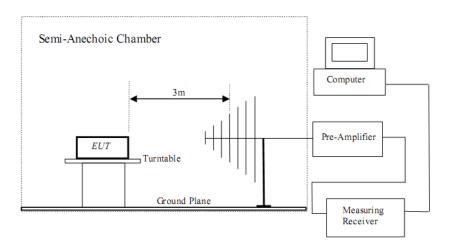
Alan Xiong EMC Project Engineer

Alem X3ong

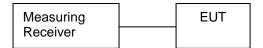


# 7 Test Setups

# 7.1 Radiated test setups



# 7.2 Conducted RF test setups





# 8 Systems test configuration

Auxiliary Equipment Used during Test:

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

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 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

Frequency	Output Power	Result
MHz	dBm	
Low channel 2402MHz	-0.44	Pass
Middle channel 2441MHz	-0.18	Pass
High channel 2480MHz	-1.11	Pass

# Bluetooth Mode $\pi/4$ -DQPSK modulation Test Result

	Conducted Peak	
Frequency	Output Power	Result
MHz	dBm	
Low channel 2402MHz	-0.34	Pass
Middle channel 2441MHz	-1.02	Pass
High channel 2480MHz	-1.12	Pass

# Bluetooth Mode 8DPSK modulation Test Result

Frequency MHz	Conducted Peak Output Power dBm	Result
Low channel 2402MHz	-0.35	Pass
Middle channel 2441MHz	-1.09	Pass
High channel 2480MHz	-2.28	Pass



## 9.2 20 dB bandwidth

#### **Test Method**

- 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.

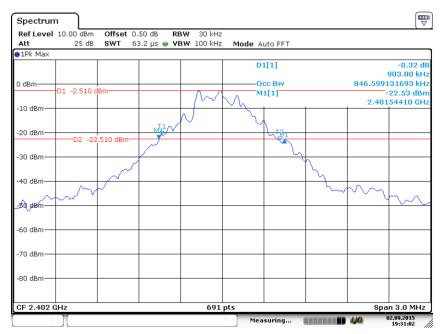
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Limit [kHz]
N/A

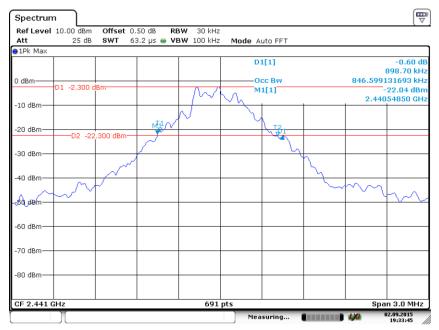


#### Bluetooth Mode GFSK Modulation test result

Frequency	20 dB Bandwidth	Limit	Result
MHz	kHz	kHz	
2402	903.00		Pass
2441	898.70		Pass
2480	864.00		Pass

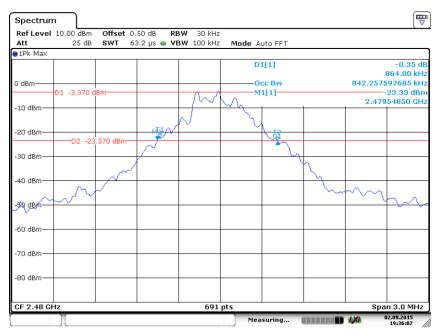


Date: 2.SEP.2015 19:31:02



Date: 2.SEP.2015 19:33:45

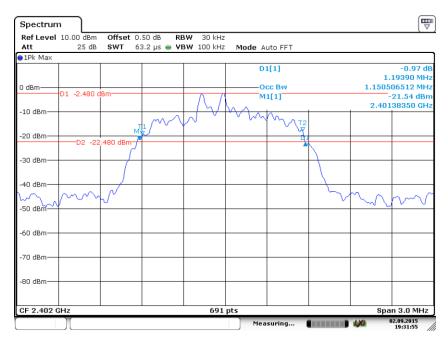




Date: 2.SEP.2015 19:36:07

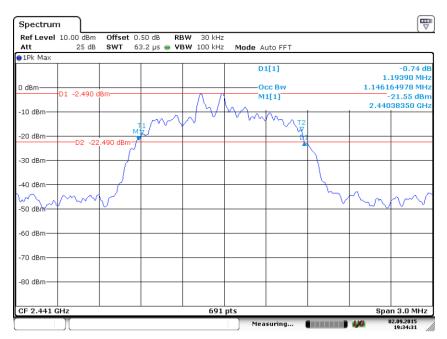
#### Bluetooth Mode π/4-DQPSK Modulation test result

Frequency	20 dB Bandwidth	Limit	Result	
 MHz	kHz	kHz		
2402	1193.9		Pass	
2441	1193.9		Pass	
2480	1211 3		Pass	

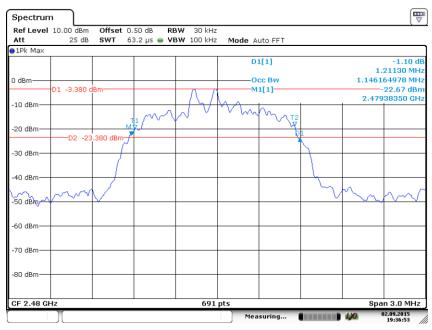


Date: 2.SEP.2015 19:31:55





Date: 2.SEP.2015 19:34:30

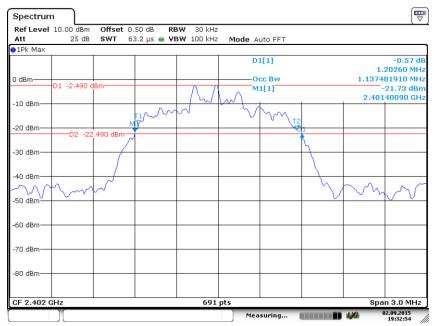


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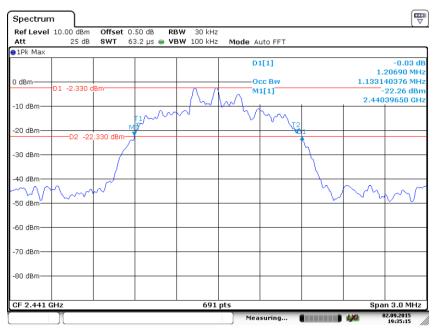


#### Bluetooth Mode 8DPSK Modulation test result

	Frequency	20 dB Bandwidth	Limit	Result	
_	MHz	kHz	kHz		
	2402	1202.6		Pass	
	2441	1206.9		Pass	
	2480	1202.6		Pass	



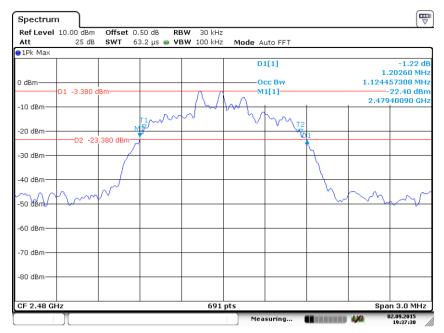
Date: 2.SEP.2015 19:32:54



Date: 2.SEP.2015 19:35:15



## 20 dB bandwidth



Date: 2.SEP.2015 19:37:30



# 9.3 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	602.0
2441	599.1
2480	576.0

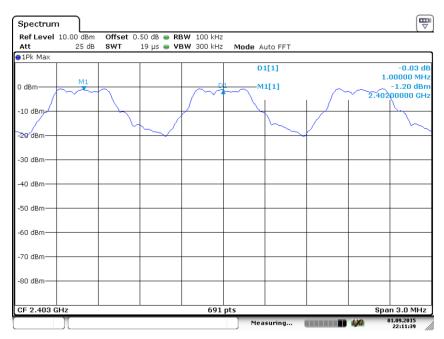


# **Carrier Frequency Separation**

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**

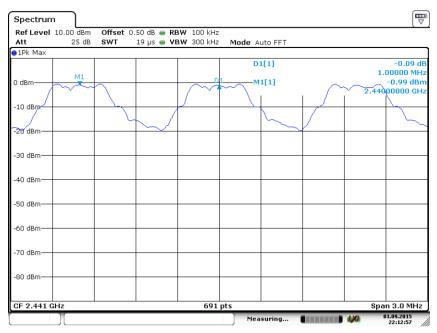
Frequency Carr		Carrier Frequency Separation	Result	
	MHz	kHz		
	2402	1000	Pass	
	2441	1000	Pass	
	2480	1002.9	Pass	



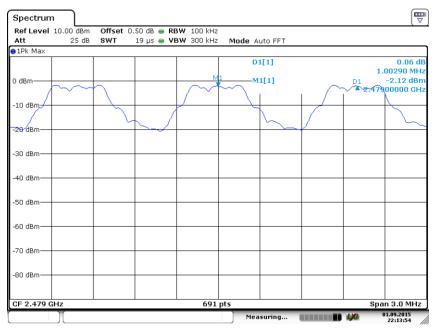
Date: 1.SEP.2015 22:11:38



# **Carrier Frequency Separation**



Date: 1.SEP.2015 22:12:57



Date: 1.SEP.2015 22:13:54



# 9.4 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	ım	Ιt

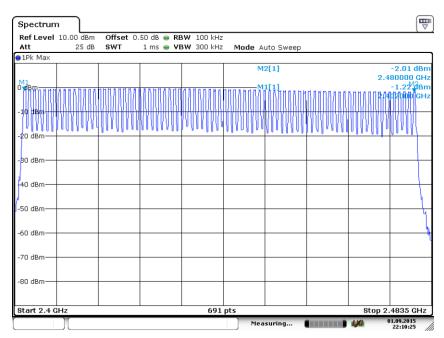
Limit
number
≥ 15



## **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.





Date: 1.SEP.2015 22:10:25



## 9.5 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**

#### **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];

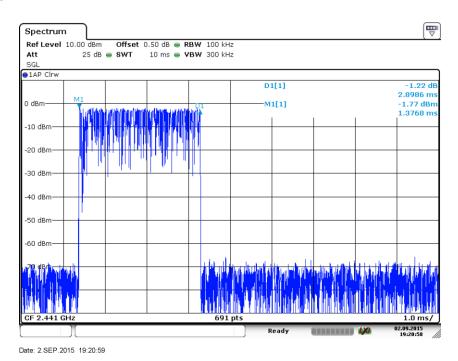
The burst width, which is directly measured, refers to the duration on one channel hop.

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	2898.6	106.67	309.28	< 400	Pass
π/4-DQPSK	2DH5	2898.6	106.67	309.28	< 400	Pass
8-DPSK	3DH5	2913.0	106.67	310.82	< 400	Pass

#### **GFSK Modulation**

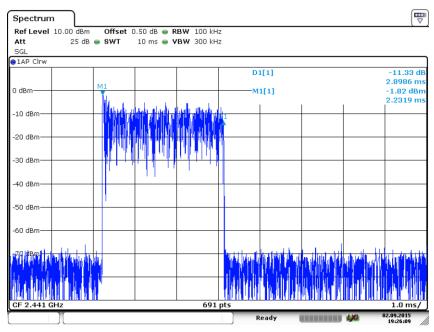


DH<sub>5</sub>



# **Dwell Time**

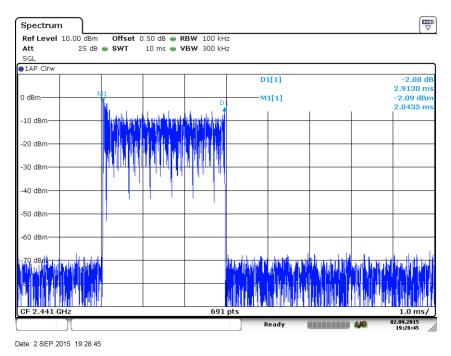
## π/4-DQPSK Modulation



Date: 2.SEP.2015 19:26:09

#### 2DH5

#### 8-DPSK Modulation



3DH5



# 9.6 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 10<sup>th</sup> 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

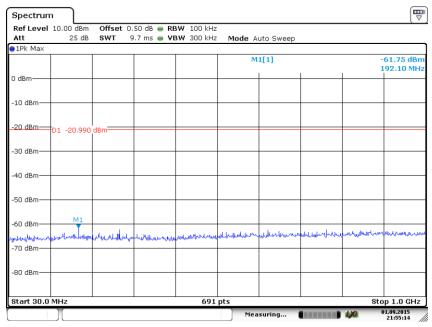
Frequency Range MHz	Limit (dBc)
30-25000	-20



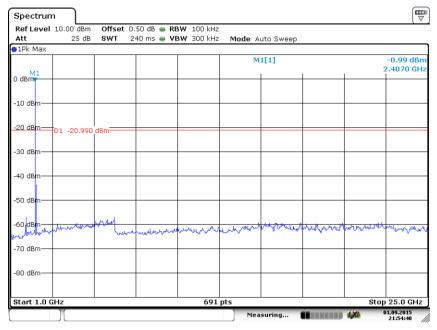
## **Spurious RF conducted emissions**

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 21:55:15

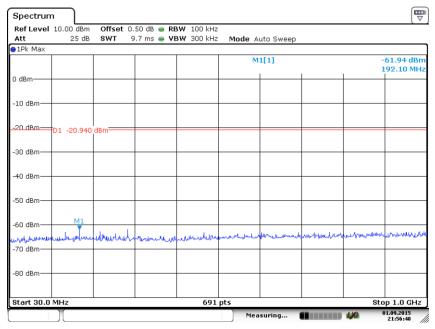


Date: 1.SEP.2015 21:54:40

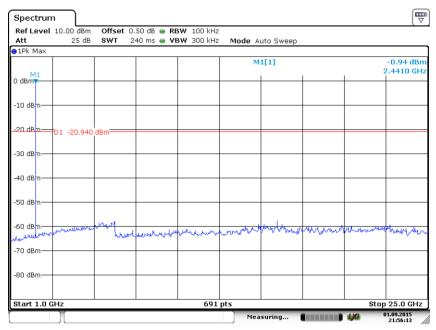


# **Spurious RF conducted emissions**

#### 2441MHz



Date: 1.SEP.2015 21:56:40

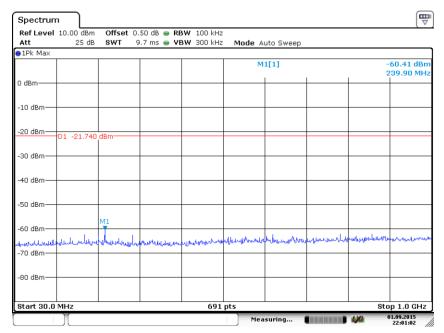


Date: 1.SEP.2015 21:56:13

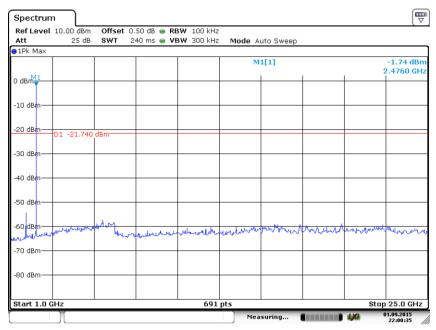


# **Spurious RF conducted emissions**

#### 2480MHz



Date: 1.SEP.2015 22:01:02



Date: 1.SEP.2015 22:00:34



# 9.7 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.

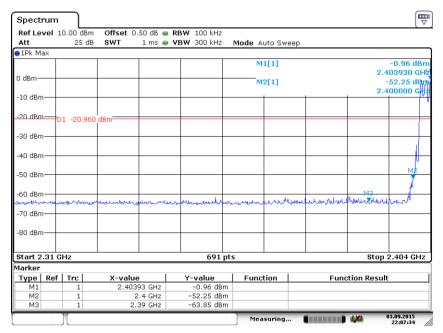
#### Limit:

According to §15.247(d) and RSS-210 A8.5, 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.

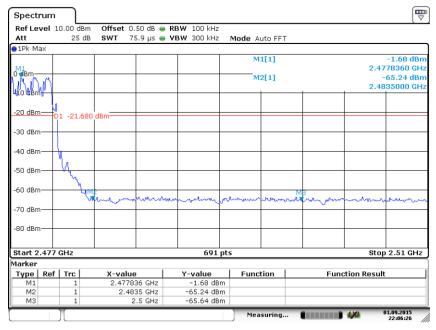


## **Band edge testing**

# GFSK Modulation Test Result: Hopping on mode:



Date: 1.SEP.2015 22:07:34

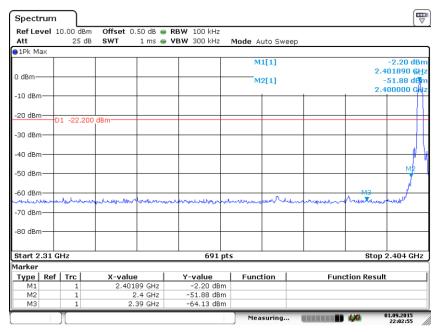


Date: 1.SEP.2015 22:06:27

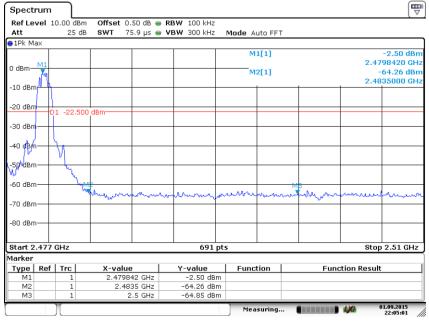


## **Band edge testing**

# Hopping off mode:



Date: 1.SEP.2015 22:02:56

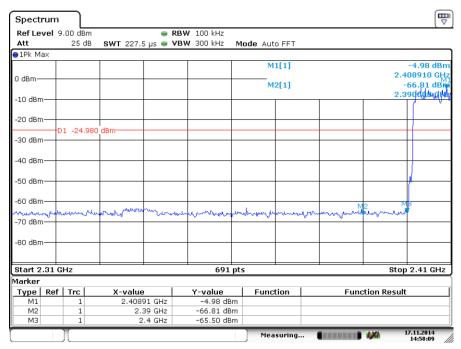


Date: 1.SEP.2015 22:05:01

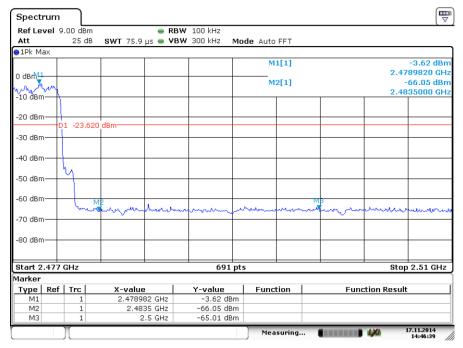


## **Band edge testing**

# 8DPSK Modulation Test Result: Hopping on mode:



Date: 17.NOV.2014 14:58:09

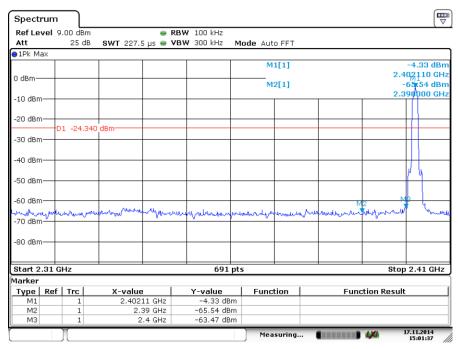


Date: 17.NOV.2014 14:46:40

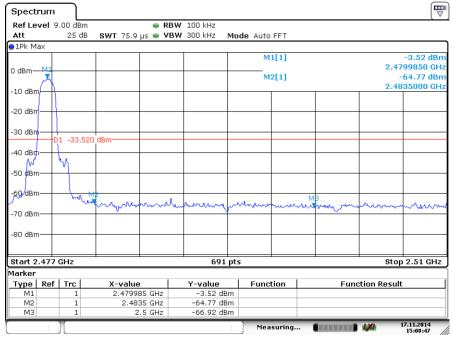


## **Band edge testing**

# Hopping off mode:



Date: 17.NOV.2014 15:01:37



Date: 17.NOV.2014 15:08:47



# 9.8 Spurious radiated emissions for transmitter and receiver

#### **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 and receiver

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	
208.00	35.86	Horizontal	43.50	QP	7.64	Pass
240.01	41.27	Horizontal	46.00	QP	4.73	Pass
272.02	40.93	Horizontal	46.00	QP	5.07	Pass
351.98	42.01	Horizontal	46.00	QP	3.99	Pass
42.00	20.36	Vertical	40.00	QP	19.64	Pass
256.01	29.60	Vertical	46.00	QP	16.40	Pass
351.98	34.34	Vertical	46.00	QP	11.66	Pass
383.99	32.97	Vertical	46.00	QP	13.03	Pass
*4804	39.58	Horizontal	74.00	PK	34.42	Pass
7206	40.37	Horizontal	74.00	PK	33.63	Pass
*4804	39.17	Vertical	74.00	PK	34.83	Pass
7206	41.17	Vertical	74.00	PK	32.83	Pass

## Bluetooth Mode GFSK Modulation 2441MHz Test Result

Frequency	Emission Level	Polarization	Limit	Detector	Margin	Result
MHz	dBuV/m		dBμV/m		dBuV/m	
*4882	39.58	Horizontal	74.00	PK	34.42	Pass
*7323	42.55	Horizontal	74.00	PK	31.45	Pass
*4882	39.47	Vertical	74.00	PK	34.53	Pass
*7323	40.37	Vertical	74.00	PK	33.63	Pass

#### Bluetooth Mode GFSK Modulation 2480MHz Test Result

Frequency	Emission Level	Polarization	Limit	Detector	Margin	Result
MHz	dBuV/m		dBµV/m		dBuV/m	
*4960	39.15	Horizontal	74.00	PK	34.85	Pass
*7440	40.68	Horizontal	74.00	PK	33.32	Pass
*4960	40.03	Vertical	74.00	PK	33.97	Pass
*7440	41.29	Vertical	74.00	PK	32.71	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**

	DESCRIPTION	MANUFACTURER	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
С	Signal Analyzer	Rohde & Schwarz	FSV40	101030	2016-7-24
RE :	EMI Test Receiver	Rohde & Schwarz	ESR 26	101269	2016-7-24
	Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9163	707	2016-8-14
	Horn Antenna	Rohde & Schwarz	HF907	102294	2016-7-24
	Pre-amplifier	Rohde & Schwarz	SCU 18	102230	2016-7-24
	3m Semi-anechoic chamber	TDK	9X6X6		2019-5-29

## C - Conducted RF tests

- Conducted peak output power
- 20dB bandwidth
- Carrier frequency separation
- Number of hopping frequencies
- Dwell Time
- Spurious RF conducted emissions
- Band edge



# 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** 

System medearement s	<b>y</b>		
Items	Extended Uncertainty		
Uncertainty for Conducted Emission 150kHz-30MHz (for test using AMN ENV216 or ENV4200)	3.50dB		
Uncertainty for Radiated Emission in 3m chamber	Horizontal: 4.83dB;		
30MHz-1000MHz	Vertical: 4.91dB;		
Uncertainty for Radiated Emission in 3m chamber	Horizontal: 4.89dB;		
1000MHz-18000MHz	Vertical: 4.88dB;		
	Power level test involved: 2.04dB		
Uncertainty for Conducted RF test	Frequency test involved: 1.1×10 <sup>-7</sup>		
	1.1810		