



# TEST REPORT FOR BLUETOOTH TESTING

Report No.: SRTC2017-9004(F)-0043

Product Name: Mobile Phone

Product Model: Hisense F10

Applicant: Hisense International Co., Ltd.

Manufacturer: Hisense Communications Co., Ltd.

Specification: FCC Part 15, Subpart C (October, 2016 edition)

FCC ID: 2ADOBF10

The State Radio\_monitoring\_center Testing Center (SRTC)

No.80 Beilishi Road Xicheng District Beijing, China

Tel: 86-10-57996181 Fax: 86-10-57996288



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# **1. GENERAL INFORMATION**

#### 1.1 Notes of the test report

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The test results relate only to individual items of the samples which have been tested.

#### 1.2 Information about the testing laboratory

Company:	The State Radio_monitoring_center Testing Center (SRTC)	
Address:	No.80 Beilishi Road, Xicheng District	
City:	Beijing	
Country or Region:	P.R.China	
Contacted person:	Liujia	
Tel:	+86 10 5799 6181	
Fax:	+86 10 5799 6288	
Email:	liujiaf@srtc.org.cn	

## 1.3 Applicant's details

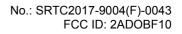
Company:	Hisense International Co., Ltd.	
Address:	Floor 22, Hisense Tower, 17 Donghai Xi Road, Qingdao, 266071, China	
City:	Qingdao	
Country or Region:	China	
Grantee Code:	2ADOB	
Contacted person:	Zhang Kelin	
Tel:	+86-532-55753242	
Fax:		
Email:	zhangkelin@hisense.com	

#### 1.4 Manufacturer's details

Company:	Hisense Communications Co., Ltd.	
Address:	218 Qianwangang Road, Economic & Technological Development Zone,	
	Qingdao, Shandong Province, P.R. China	
City:	Qingdao	
Country or Region:	China	
Contacted person:	Li Xin	
Tel:	+86-532-55755993	
Fax:		
Email:	linxin12@hisense.com	

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## 1.5 Test Environment

Date of Receipt of test sample at SRTC:	2017.04.24
Testing Start Date:	2017.05.02
Testing End Date:	2017.05.02

Environmental Data:	Temperature (°C)	Humidity (%)
Ambient	25	38
Maximum Extreme	55	50
Minimum Extreme	-10	

Normal Supply Voltage (V d.c.):	3.8
Maximum Extreme Supply Voltage (V d.c.):	4.35
Minimum Extreme Supply Voltage (V d.c.):	3.5

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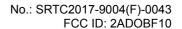


# 2 DESCRIPTION OF THE DEVICE UNDER TEST

# 2.1 Final Equipment Build Status

Frequency Range	2.4GHz~2.4835GHz
Number of Channel	79
Modulation Type	GFSK, $\pi/4$ DQPSK, 8DPSK
Duplex Mode	TDD
Channel Spacing	1MHz
Data Rate	1Mbps, 2 Mbps, 3 Mbps
Antenna Type	PIFA Antenna
Power Supply	Battery or Charger
Rated Power Supply Voltage	3.8V
HW Version	V1.00
SW Version	L1402.6.01.01.MX06
IMEI	863721030069261

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## 2.2 Support Equipment

The following support equipment was used to exercise the DUT during testing: Battery 1

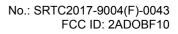
Buttery	
Equipment	Battery
Manufacturer	TMB
Model Number	LIW38238
Serial Number	

Battery 2

Equipment	Battery
Manufacturer	VEKEN
Model Number	LIW38238
Serial Number	

As the information described above, there are one models of battery manufactured by two companies. The relevant tests have been performed in order to verify in which combination case (EUT exercised by one models of battery manufactured by two companies) the EUT would have the worst features. So all the tests shown in this test report are performed when the EUT exercised by the battery 1 manufactured by TMB.

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# **3 REFERENCE SPECIFICATION**

Specification	Version	Title
15.35	Mar. 6, 2014	Measurement detector functions and bandwidths.
15.209	Oct. 30, 1997	Radiated emission limits; general requirements.
15.247	May 1, 2014	Operation within the bands 902-928 MHz, 2400-2483.5 MHz,
		and 5725-5850 MHz.

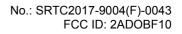
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# **4 KEY TO NOTES AND RESULT CODES**

Code	Meaning
PASS	Test result shows that the requirements of the relevant specification have been met.
FAIL	Test result shows that the requirements of the relevant specification have not been met.
N/T	Test case is not tested.
NTC	Nominal voltage, Normal Temperature
HV	High voltage, Normal Temperature
LV	Low voltage, Normal Temperature
HTHV	high voltage, High Temperature
LTHV	High voltage, Low Temperature
HTLV	Low voltage, High Temperature
LTLV	Low voltage, Low Temperature

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# **5 RESULT SUMMARY**

No.	Test case	FCC reference	Verdict
1	Occupied Bandwidth	15.247(a)(1)	Pass
2	Channel Separation	15.247(a)(1)	Pass
3	Peak Power Output	15.247(b)(1)	Pass
4	Dwell Time	15.247(a)(1)(iii)	Pass
5	Number of Hopping Frequencies	15.247(a)(1)(iii)	Pass
6	Conducted out of band emission measurement	15.247(d)	Pass
7	Spurious Radiated Emissions	15.247(d)/15.35(b)/15.209	Pass
8	AC Power line Conducted Emission	15.207	Pass

This Test Report Is Issued by: Mr. Peng Zhen	Checked by: Ms. Liu Jia
Tested by: Mr. He Dengshun	Issued date: 20170512



# **6 TEST RESULT**

### 6.1 Occupied Bandwidth

#### 6.1.1 Ambient condition

Temperature	Relative humidity	Pressure
22°C	40%	101.5kPa

#### 6.1.2 Test Description

The bandwidth at 20dB down from the highest in-band spectral density is measured with a spectrum analyzer and Bluetooth test set via a power splitter with a known loss which connected to the transmitter antenna terminal of the EUT while the EUT is operating at maximum power and at the appropriate frequencies. All modes of operation were investigated and the worst case configuration results are reported in this section.

#### 6.1.3 Test limit

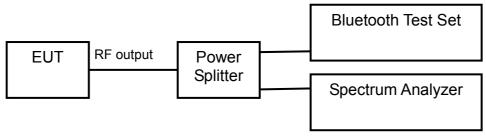
FCC Part15.247 (a)(1)

For frequency hopping system operating in the 2400-2483.5MHz, If the 20dB bandwidth of hopping channel is greater than 25kHz, two-thirds 20dB bandwidth of hopping channel shell be a minimum limit for the hopping channel separation.

## 6.1.4 Test settings

- a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b. 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.
- c. Measure the frequency difference of two frequencies that were attenuated 30dB from the reference level. Record the frequency difference as the emission bandwidth.
- d. Repeat above procedures until all frequencies measured were complete.

## 6.1.5 Test Setup



#### 6.1.6 Test result

The test results are shown in Appendix A.

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## 6.2 Channel Separation

#### 6.2.1 Ambient condition

Temperature	Relative humidity	Pressure
22°C	40%	101.5kPa

#### **6.2.2 Test Description**

The Equipment Under Test (EUT) was set up in a shielded room to perform the channel separation measurements. The EUT was connected to the spectrum analyzer and Bluetooth test set via a power splitter with a known loss.

#### 6.2.3 Test limit

FCC Part15.247 (a)(1)

Measurement is made with EUT operating in hopping mode. The minimum permissible channel separation for this system is 2/3 the value of the 20dB BW.

## 6.2.4 Test Settings

a) Detector: Peak-Max hold

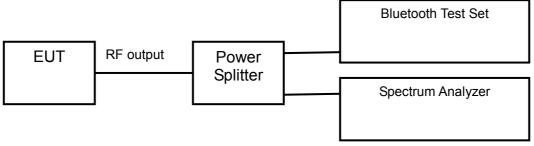
b) Span: 3 MHz

c) Centre Frequency: 2441 MHz

d) Resolution Bandwidth (RBW): 30 kHze) Video Bandwidth (VBW): 1 MHz

f) Sweep Time: Coupled

#### 6.2.5 Test Setup



#### 6.2.6 Test result

The test results are shown in Appendix A.

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## **6.3 Peak Power Output**

#### 6.3.1 Ambient condition

Temperature	Relative humidity	Pressure
22°C	40%	101.5kPa

#### 6.3.2 Test Description

Measurement is made while the EUT is operating in non-hopping transmission mode. The powers shown below were measured using a spectrum analyzer with a Bluetooth signaling test set used only to maintain a Bluetooth link with the EUT.

#### 6.3.3 Test limit

FCC Part15.247(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.

Used conversion factor: Limit (dBm) =  $10 \log (\text{Limit (W)/1mW}) \rightarrow$ 

Modulation type	GFSK	π/4DQPSK	8DPSK
Maximum Output Power	30.0dBm	30.0dBm	30.0dBm

For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

Used conversion factor: Limit (dBm) = 10 log (Limit (W)/1mW) →

Modulation type	GFSK	π/4DQPSK	8DPSK
Maximum Output Power	21.0dBm	21.0dBm	21.0dBm

#### 6.3.4 Test Settings

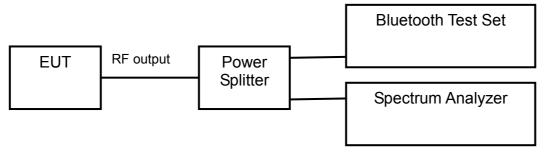
Hopping Mode	Modulation type	RBW	VBW	Span	Sweep time
Hopping OFF	GFSK	2MHz	3MHz	8MHz	1ms
Hopping OFF	π/4DQPSK	2MHz	3MHz	8MHz	1ms
Hopping OFF	8DPSK	2MHz	3MHz	8MHz	1ms

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#### 6.3.5 Test Setup



#### 6.3.6 Test result

The test results are shown in Appendix A.

#### 6.4 Dwell Time

#### 6.4.1 Ambient condition

Temperature Relative humidity		Pressure
22°C	40%	101.5kPa

#### 6.4.2 Test Description

The Equipment Under Test (EUT) was set up in a shielded room to perform the dwell time measurements.

The EUT was connected to the spectrum analyzer and Bluetooth test set via a power splitter with a known loss.

The time slot length is measured of three different packet types which are available in the Bluetooth technology. Those are DH1, DH3 and DH5 packets. The dwell time is calculated by:

Dwell time = time slot length \* hop rate \* 31.6/ number of hopping channels with:

- hop rate=1600/2 \* 1/s for DH1 packets =800
- hop rate=1600/4 \* 1/s for DH3 packets =400
- hop rate=1600/6 \* 1/s for DH5 packets =266.67
- number of hopping channels=79
- 31.6 s=0.4 seconds multiplied by the number of hopping channels=0.4s \* 79

#### 6.4.3 Test limit

FCC Part15.247(a)(1)(iii)

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. 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.

#### **6.4.4 Test Test Settings**

- a. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated

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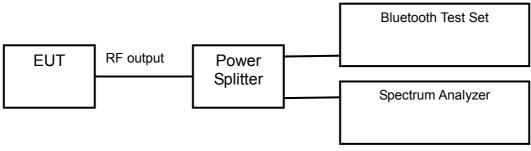
in its linear range.

- c. Adjust the center frequency of SA on any frequency be measured and set SA to zero span mode. And then, set RBW and VBW of spectrum analyzer to proper value.
- d. Measure the time duration of one transmission on the measured frequency.

And then plot the result with time difference of this time duration.

e. Repeat above procedures until all different time-slot modes have been completed.

#### 6.4.5 Test Setup



#### 6.4.6 Test result

The test results are shown in Appendix A.

## 6.5 Number of Hopping Frequencies

#### 6.5.1 Ambient condition

Temperature	Relative humidity	Pressure	
22°C	40%	101.5kPa	

#### 6.5.2 Test Description

The Equipment Under Test (EUT) was set up in a shielded room to perform the number of hopping frequencies measurement. The EUT was connected to the spectrum analyzer and Bluetooth test set via a power splitter with a known loss.

#### 6.5.3 Test limit

FCC Part15.247(a)(1)(iii)

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

#### 6.5.4 Test Settings

a) Detector: Peak-Maxholdb) Start frequency: 2400 MHzc) Stop frequency: 2483.5 MHz

d) Resolution Bandwidth (RBW): 30 kHz

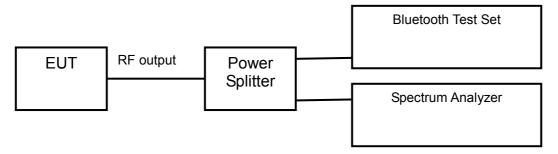
e) Video Bandwidth (VBW): 1 MHz

f) Sweep Time: Coupled

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#### 6.5.5 Test Setup



#### 6.5.6 Test result

The test results are shown in Appendix A.

#### 6.6 Conducted out of band emission measurement

#### 6.6.1 Ambient condition

Temperature Relative humidity		Pressure	
22°C	40%	101.5kPa	

#### 6.6.2 Test Description

The Equipment Under Test (EUT) was set up in a shielded room to perform the spurious emissions measurements. The EUT was connected to the spectrum analyzer and Bluetooth test set via a power splitter with a known loss.

#### 6.6.3 Test limit

FCC Part15.247(d):

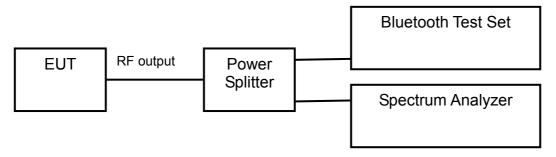
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.

#### 6.6.4 Test Settings

- a) Set RBW = 100 kHz.
- b) Set VBW = 300 kHz.
- c) Set span to encompass the spectrum to be examined
- d) Detector = peak.
- e) Trace Mode = max hold.
- f) Sweep = auto couple. Detector: Peak-Maxhold
- g) Frequency range: 30 ~25000 MHz



#### 6.6.5 Test Setup



#### 6.6.6 Test result

The test results are shown in Appendix A.

The spectrum plots are attached on the following images. D1 line indicates the highest level, D2 line indicates the 20dB offset below D1. It shows compliance with the requirement.

#### 6.7 Spurious Radiated Emissions

#### 6.7.1 Ambient condition

Temperature	Relative humidity	Pressure
20.8°C	36.5%	100.9kPa

#### 6.7.2 Test Description

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at maximum power and at the appropriate frequencies. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

#### 6.7.3 Test limit

FCC Part15.247(d):

In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)). All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in below Table per Section 15.209.

Frequency [MHz]	Field strength [ μV/m ]	Measured Distance [meters]
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

#### Radiated Limits

#### FCC Part15.35(b):

there is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above

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the maximum permitted average limit

Used conversion factor: Limit ( $dB\mu V/m$ ) = 20 log (Limit ( $\mu V/m$ )/1 $\mu V/m$ )

Frequency of Emission(MHz)	Limits		
	Detector	Unit (dBµV/m)	
30~88	Quasi-peak	40.0	
88~216	Quasi-peak	43.5	
216~960	Quasi-peak	46.0	
960~1000	Quasi-peak	54.0	
1000∼5th harmonic of the highest frequency or	Average	54.0	
40GHz, whichever is lower	Peak	74.0	

**Conversion Radiated limits** 

#### 6.7.4 Test Settings

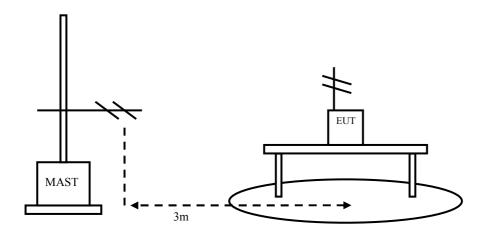
The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The test was performed at the distance of 3 m between the EUT and the receiving antenna. The radiated emissions measurements were made in a typical installation configuration. During the test, the antenna height and EUT azimuth were varied in order to identify the maximum level of emission from the EUT. The height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turn table shall be rotated from 0 to 360 degrees.

The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing.

## 6.7.5 Test Setup

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The EUT and measurement equipment were set up as shown in the diagram below The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic



chamber. The test was performed at the distance of 3 m between the EUT and the receiving antenna. The radiated emissions measurements were made in a typical installation configuration. Then start the test software ES-K1. Sweep the whole frequency band through the range from 30MHz to 1GHz or above, using receive log period antenna HL562 or Ridge horn antenna HF906.

During the test, the antenna height and EUT azimuth were varied in order to identify the maximum level of emission from the EUT. The height of receive antenna shall be moved from 1 to 4 meters,

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and the antenna shall be performed under horizontal and vertical polarization. The turn table shall be rotated from 0 to 360 degrees. The measurements shall be repeated with orthogonal polarization of the test antenna. The results shall be showed the worst case of the three orthogonal axes. The data of cable loss and antenna factor has been calibrated in full testing frequency range before

the testing.

#### 6.7.6 Test result

The test results are shown in Appendix B.

#### 6.8 AC Power line Conducted Emission

#### 6.8.1 Ambient condition

Temperature	Relative humidity	Pressure
20.8°C	36.5%	100.9kPa

#### 6.8.2 Test limit

#### FCC Part15.207

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

<sup>\*</sup> Decreases with the logarithm of the frequency.

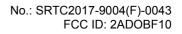
The measurement is made according to ANSI C63.4-2014

#### 6.8.3 Test result

The test results are shown in Appendix B.

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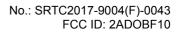
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# **7 MEASUREMENT UNCERTAINTIES**

Items	Uncertainty		
Occupied Bandwidth	3kHz		
Peak power output	0.67dB		
Band edge compliance	1.20dB		
	30MHz~1GHz 2.83dB		
Spurious emissions	1GHz~12.75GHz	2.50dB	
	12.75GHz~25GHz 2.75dB		

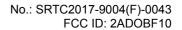
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# **8 TEST EQUIPMENTS**

No.	Name/ Model	Manufacturer	S/N	Cal Due date
1.	Spectrum Analyzer FSV	ROHDE&SCHWARZ	101065	2017.08.20
2.	Bluetooth Test Set MT8852B	Anritsu	1142010	2018.03.01
3.	Cable 104EA	SUCOFLEX	9272/4EA	2018.03.01
4.	Cable 104EA	SUCOFLEX	9266/4EA	2018.03.01
5.	Power Splitter 11850C	Agilent	026057	2017.08.20
6.	12.65m×8.03m×7.50m Fully-Anechoic Chamber	FRANKONIA		
7.	23.18m×16.88m×9.60m Semi-Anechoic Chamber	FRANKONIA		
8.	Turn table Diameter:1m	HD		
9.	Turn table Diameter:5m	HD		
10.	Antenna master FAC(MA4.0)	MATURO		
11.	Antenna master SAC(MA4.0)	MATURO		
12.	9.080m×5.255m×3.525m Shielding room	FRANKONIA		
13.	HF 906 Double-Ridged Waveguide Horn Antenna	R&S	100030	2017.08.20
14.	HF 906 Double-Ridged Waveguide Horn Antenna	R&S	100029	2017.08.20
15.	HL562 Ultra log antenna	R&S	100016	2017.08.20
16.	3160-09 Receive antenna	SCHWARZ-BECK	002058-002	2017.08.20
17.	ESI 40 EMI test receiver	R&S	100015	2017.08.20
18.	Radio tester	CMU 200	114667	2017.08.20
19.	ESCS30 EMI test receiver	R&S	100029	2017.08.20
20.	HL562 Receive antenna	R&S	100167	2017.08.20
21.	ESH3-Z5 LISN	R&S	100020	2017.08.20



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# <u>APPENDIX A – TEST DATA OF CONDUCTED EMISSION</u>

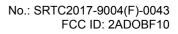
Please refer to the attachment.

# **APPENDIX B - TEST DATA OF RADIATED EMISSION**

Please refer to the attachment.

# **APPENDIX C - TEST SETUP**

Please refer to the attachment.

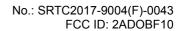


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# APPENDIX A - TEST DATA OF CONDUCTED EMISSION

# **Occupied Bandwidth**

Modulation type: GFSK

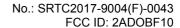
Carrier frequency (MHz)	Channel No. 20 dB bandwidth(kl	
2402	0	811.1
2441	39	812.1
2480	78	811.9

Modulation type:  $\pi/4DQPSK$ 

Carrier frequency (MHz)	Channel No.	20 dB bandwidth(kHz)
2402	0	1206.1
2441	39	1205.7
2480	78	1225.3

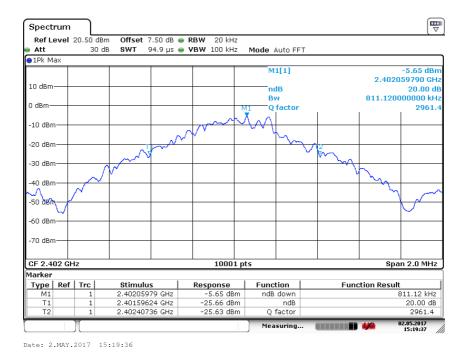
Modulation type: 8DPSK

Carrier frequency (MHz)	Channel No.	20 dB bandwidth(kHz)
2402	0	1253.3
2441	39	1252.7
2480	78	1256.5

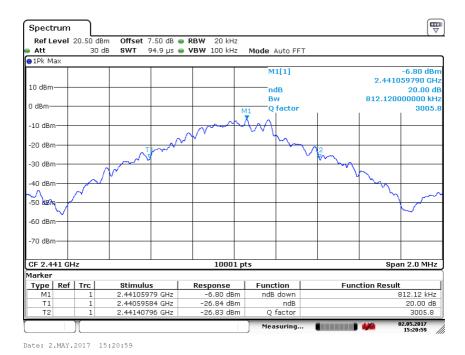


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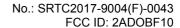


Carrier frequency (MHz): 2402 Channel No.:0 Modulation type: GFSK



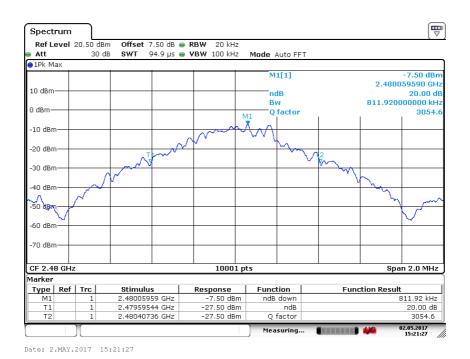
Carrier frequency (MHz): 2441 Channel No.:39 Modulation type: GFSK

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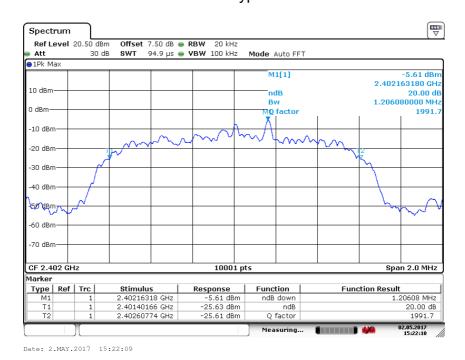


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Carrier frequency (MHz): 2480 Channel No.:78 Modulation type: GFSK

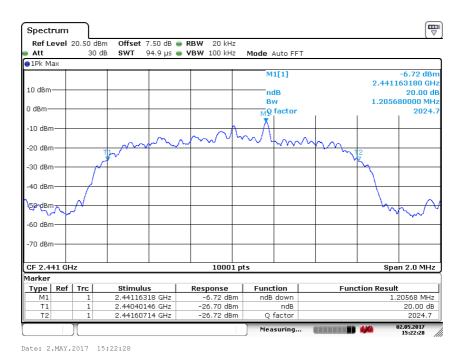


Carrier frequency (MHz): 2402 Channel No.:0 Modulation type: π/4DQPSK

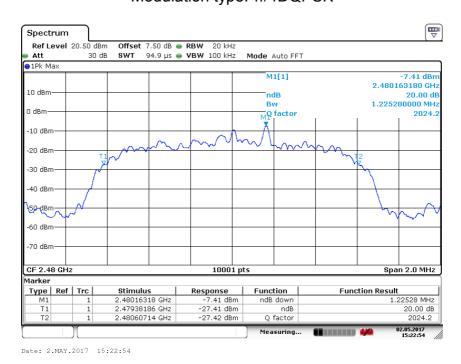


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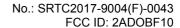




Carrier frequency (MHz): 2441 Channel No.:39 Modulation type: π/4DQPSK

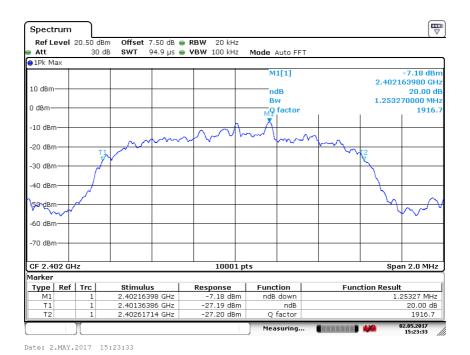


Carrier frequency (MHz): 2480 Channel No.:78 Modulation type: π/4DQPSK



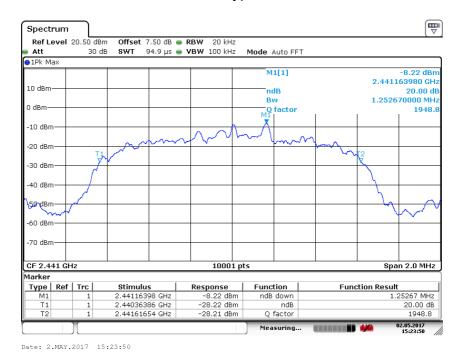
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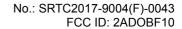
Carrier frequency (MHz): 2402 Channel No.:0

Modulation type: 8DPSK



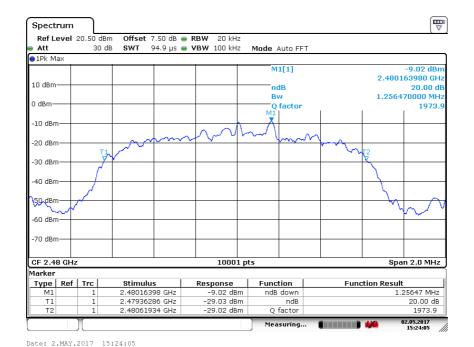
Carrier frequency (MHz): 2441 Channel No.:39 Modulation type: 8DPSK

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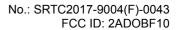


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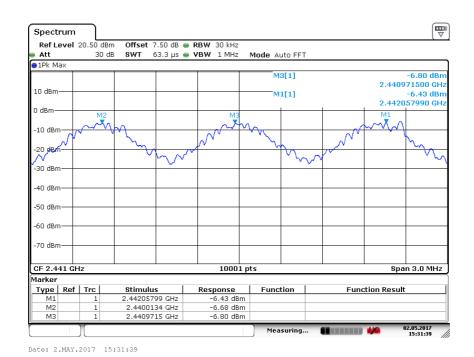
Carrier frequency (MHz): 2480 Channel No.:78 Modulation type: 8DPSK





# **Channel Separation**

Op-mode	Channel separation MHz
Hopping mode	1

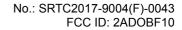


Op-mode: Hopping mode

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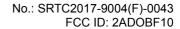


# **Peak Power Output**

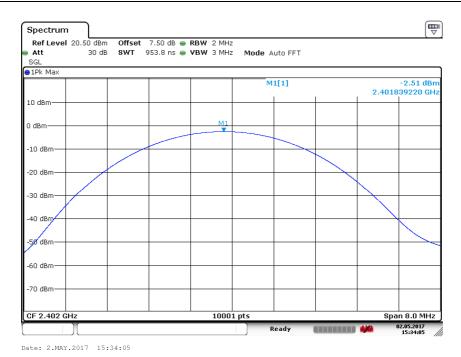
	Average Power Output (dBm)		
Modulation type	2402MHz	2441MHz	2480MHz
	(Ch0)	(Ch39)	(Ch78)
GFSK	-3.45	-4.58	-5.19
π/4DQPSK	-3.27	-4.39	-5.36
8DPSK	-3.11	-4.59	-5.89

Average power data is provided to determine the need for Bluetooth SAR testing according to KDB 447498 D01 v05r01.

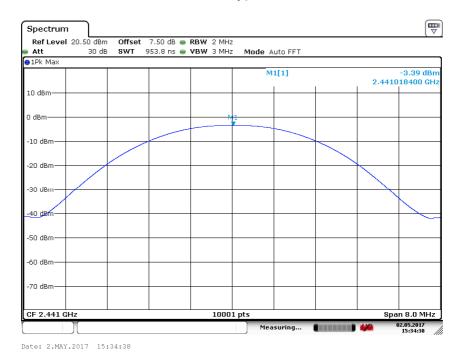
	Pe	ak Power Output (dB	m)
Modulation type	2402MHz	2441MHz	2480MHz
	(Ch0)	(Ch39)	(Ch78)
GFSK	-2.51	-3.39	-4.07
π/4DQPSK	-2.54	-3.89	-4.55
8DPSK	-2.42	-3.56	-4.24



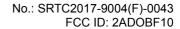




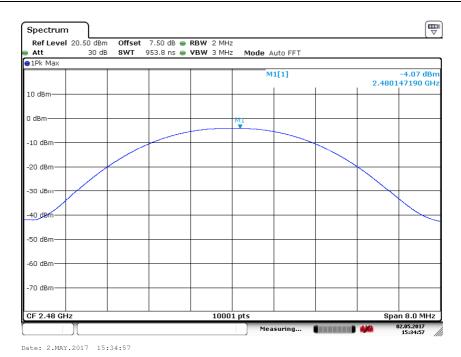
Carrier frequency (MHz): 2402 Channel No.:0 Modulation type: GFSK



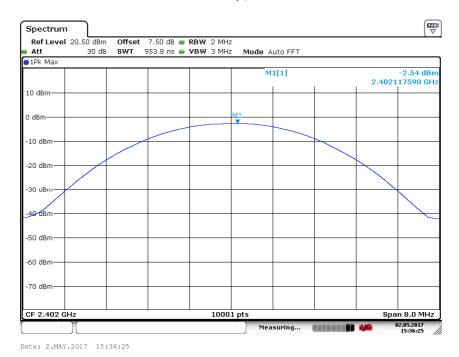
Carrier frequency (MHz): 2441 Channel No.:39 Modulation type: GFSK



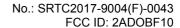




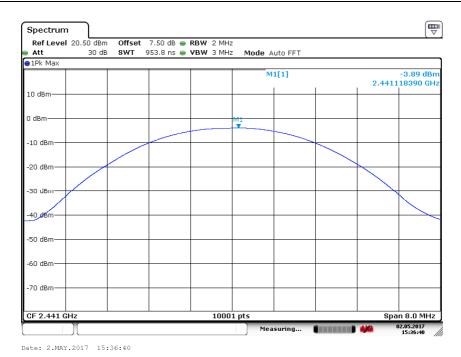
Carrier frequency (MHz): 2480 Channel No.:78 Modulation type: GFSK



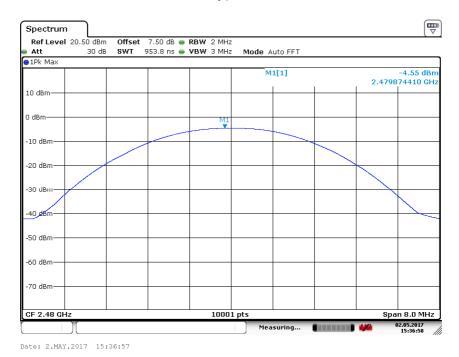
Carrier frequency (MHz): 2402 Channel No.:0 Modulation type: π/4DQPSK



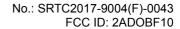




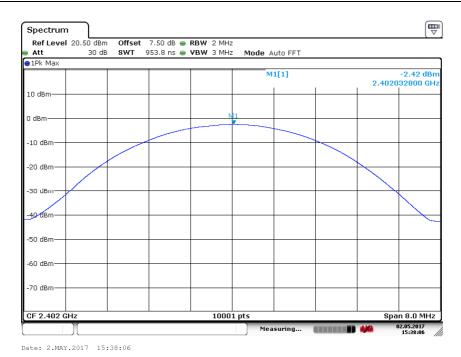
Carrier frequency (MHz): 2441 Channel No.:39 Modulation type: π/4DQPSK



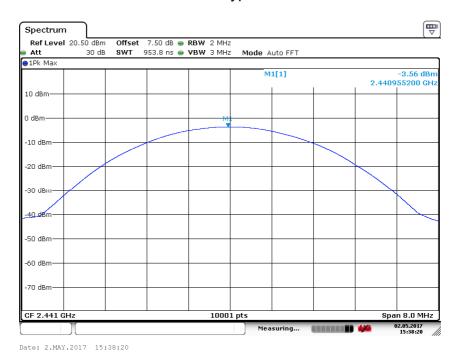
Carrier frequency (MHz): 2480 Channel No.:78 Modulation type: π/4DQPSK



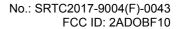




Carrier frequency (MHz): 2402 Channel No.:0 Modulation type: 8DPSK

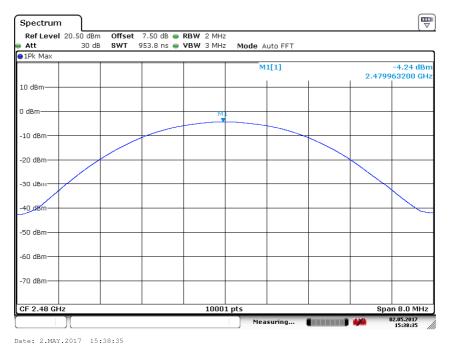


Carrier frequency (MHz): 2441 Channel No.:39 Modulation type: 8DPSK



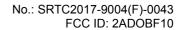
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Date: 2.MAY.201/ 15:38:35

Carrier frequency (MHz): 2480 Channel No.:78 Modulation type: 8DPSK

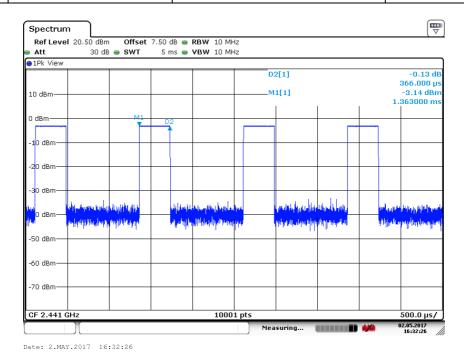




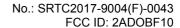
#### **Dwell Time**

Modulation type: GFSK

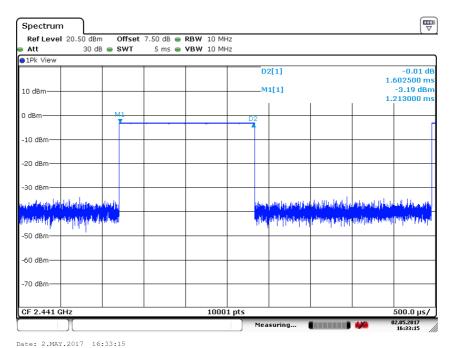
Packet type	Time slot length µs	Dwell time	Dwell time ms
DH1	366	time slot length *31.6 *1600/2 /79	117
DH3	1603	time slot length * 31.6 *1600/4 /79	256
DH5	2846	time slot length * 31.6 *1600/6 /79	304



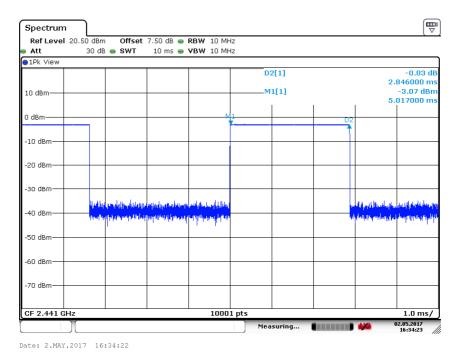
Carrier frequency (MHz): 2441 Packet type: DH1 Modulation type: GFSK



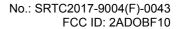




Carrier frequency (MHz): 2441
Packet type: DH3
Modulation type: GFSK



Carrier frequency (MHz): 2441 Packet type: DH5 Modulation type: GFSK

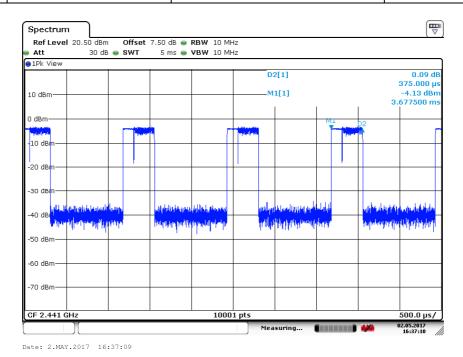


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Modulation type:  $\pi/4DQPSK$ 

Packet type	Time slot length µs	Dwell time	Dwell time ms
DH1	375	time slot length *31.6 *1600/2 /79	120
DH3	1621	time slot length * 31.6 *1600/4 /79	259
DH5	2864	time slot length * 31.6 *1600/6 /79	305

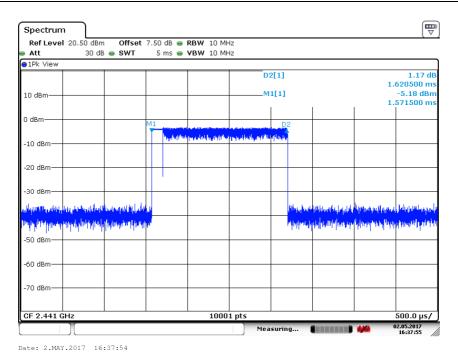


Carrier frequency (MHz): 2441
Packet type: DH1
Modulation type: π/4DQPSK

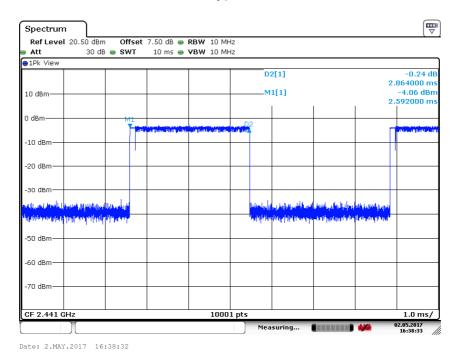
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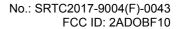




Carrier frequency (MHz): 2441 Packet type: DH3 Modulation type: π/4DQPSK



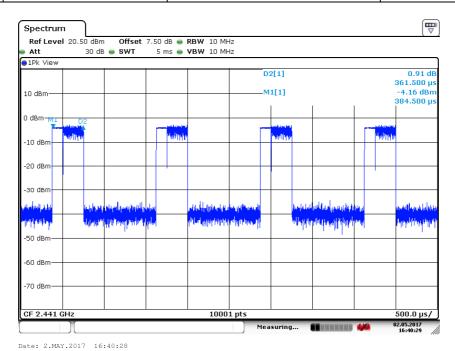
Carrier frequency (MHz): 2441 Packet type: DH5 Modulation type: π/4DQPSK





Modulation type: 8DPSK

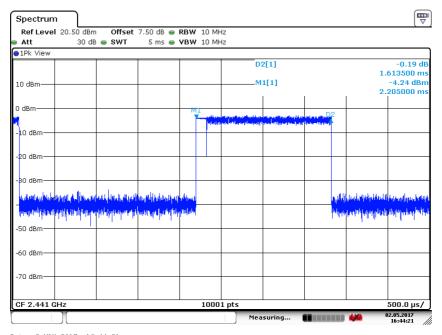
Packet type	Time slot length	Dwell time	Dwell time ms
DH1	362	time slot length *31.6 *1600/2 /79	116
DH3	1614	time slot length * 31.6 *1600/4 /79	258
DH5	2868	time slot length * 31.6 *1600/6 /79	306



Carrier frequency (MHz): 2441
Packet type:DH1
Modulation type: 8DPSK

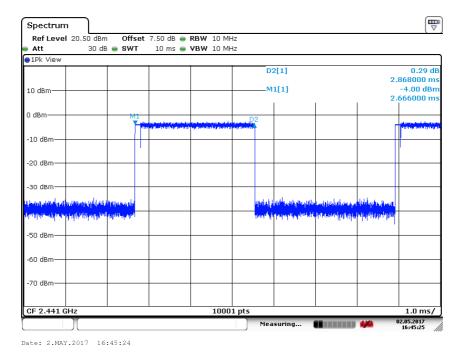




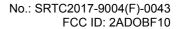


Date: 2.MAY.2017 16:44:21

### Carrier frequency (MHz): 2441 Packet type:DH3 Modulation type: 8DPSK



Carrier frequency (MHz): 2441 Packet type:DH5 Modulation type: 8DPSK

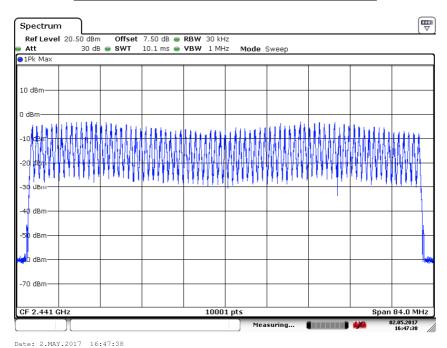


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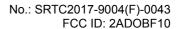
# **Number of Hopping Frequencies**

Op-mode	Result
Hopping mode	79



Op-mode: Hopping mode

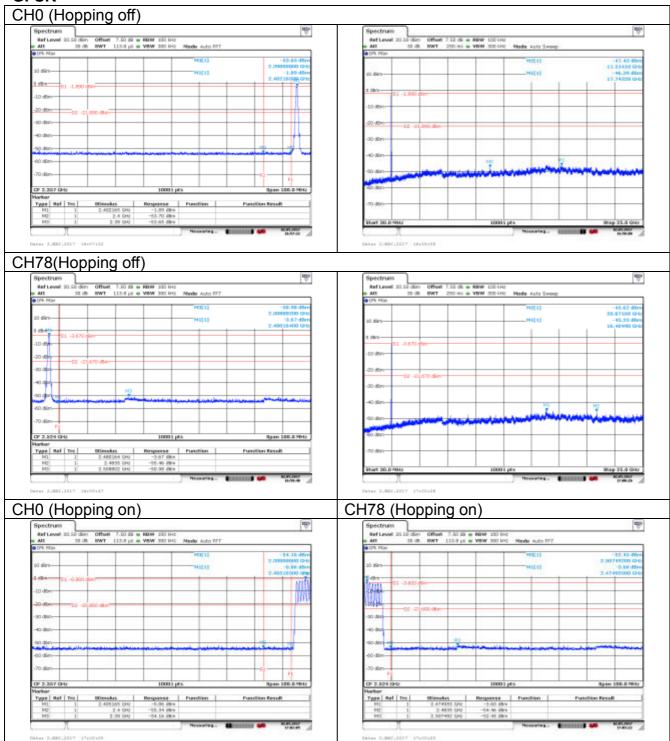
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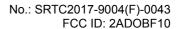




#### Conducted out of band emission measurement

#### **GFSK**

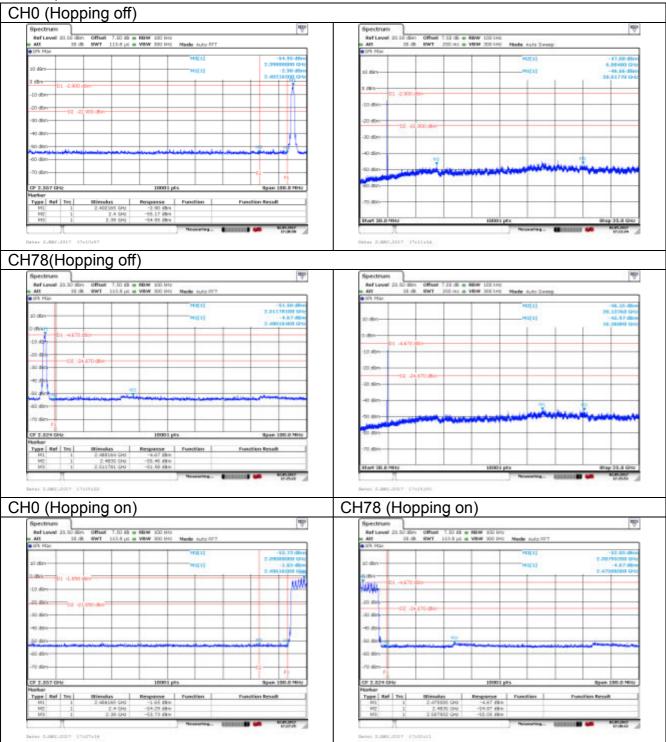




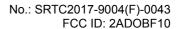
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### π/4DQPSK



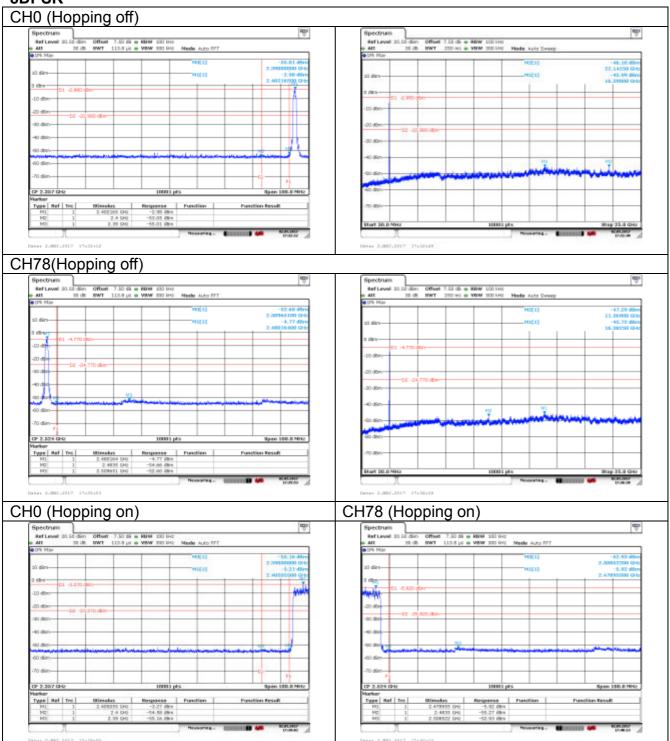
Fax: 86-10-5799 6288 Copyright © SRTC



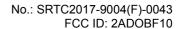
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#### 8DPSK



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### APPENDIX B - TEST DATA OF RADIATED EMISSION

### **Spurious Radiated Emissions**

The worst case attitude: The mobile lay down.

Carrier frequency (MHz): 2402

Channel No.:0 Test Mode: GFSK Polarity: Vertical Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2402	87.61	53.61	N/A	N/A	8.90	25.10
2	2390	58.29	24.29	-15.71	74.00	8.90	25.10

Carrier frequency (MHz): 2402

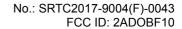
Channel No.:0 Test Mode: GFSK Polarity: Horizontal Detector: Peak

	No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
	1	2402	86.52	52.52	N/A	N/A	8.90	25.10
ĺ	2	2390	56.02	22.02	-17.98	74	8.90	25.10

Carrier frequency (MHz): 2402

Channel No.:0 Test Mode: GFSK Polarity: Vertical Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2402	80.47	46.47	N/A	N/A	8.90	25.10
2	2390	40.19	6.19	-13.81	54.00	8.90	25.10





Carrier frequency (MHz): 2402

Channel No.:0 Test Mode: GFSK Polarity: Horizontal Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2402	78.02	44.02	N/A	N/A	8.90	25.10
2	2390	42.69	8.69	-11.31	54	8.90	25.10

Carrier frequency (MHz): 2480

Channel No.:78
Test Mode: GFSK
Polarity: Vertical
Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2480	88.00	54.00	N/A	N/A	8.90	25.10
2	2483.5	58.25	24.25	-15.75	74.00	8.90	25.10

Carrier frequency (MHz): 2480

Channel No.:78 Test Mode: GFSK Polarity: Horizontal Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2480	85.39	51.39	N/A	N/A	8.90	25.10
2	2483.5	56.32	22.32	-17.68	74	8.90	25.10

Carrier frequency (MHz): 2480

Channel No.:78 Test Mode: GFSK Polarity: Vertical Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2480	80.41	46.41	N/A	N/A	8.90	25.10
2	2483.5	41.62	7.62	-12.38	54.00	8.90	25.10



Carrier frequency (MHz): 2480

Channel No.:78 Test Mode: GFSK Polarity: Horizontal Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2480	76.20	42.20	N/A	N/A	8.90	25.10
2	2483.5	42.65	8.65	-11.35	54	8.90	25.10

Carrier frequency (MHz): 2402

Channel No.:0

Test Mode: π/4DQPSK

Polarity: Vertical Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2402	88.10	54.10	N/A	N/A	8.90	25.10
2	2390	56.47	22.47	-17.53	74.00	8.90	25.10

Carrier frequency (MHz): 2402

Channel No.:0

Test Mode: π/4DQPSK Polarity: Horizontal Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2402	85.42	51.42	N/A	N/A	8.90	25.10
2	2390	57.27	23.27	-16.73	74	8.90	25.10

Carrier frequency (MHz): 2402

Channel No.:0

Test Mode: π/4DQPSK

Polarity: Vertical Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2402	79.45	45.45	N/A	N/A	8.90	25.10
2	2390	42.21	8.21	-11.79	54.00	8.90	25.10

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Carrier frequency (MHz): 2402

Channel No.:0

Test Mode: π/4DQPSK Polarity: Horizontal Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)				
1	2402	78.68	44.68	N/A	N/A	8.90	25.10				
2	2390	42.40	8.40	-11.60	54	8.90	25.10				

Carrier frequency (MHz): 2480

Channel No.:78

Test Mode: π/4DQPSK

Polarity: Vertical Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2480	88.19	54.19	N/A	N/A	8.90	25.10
2	2483.5	57.12	23.12	-16.88	74.00	8.90	25.10

Carrier frequency (MHz): 2480

Channel No.:78

Test Mode: π/4DQPSK Polarity: Horizontal Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2480	87.73	53.73	N/A	N/A	8.90	25.10
2	2483.5	55.83	21.83	-18.17	74	8.90	25.10

Carrier frequency (MHz): 2480

Channel No.:78

Test Mode: π/4DQPSK

Polarity: Vertical Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2480	78.73	44.73	N/A	N/A	8.90	25.10
2	2483.5	39.09	5.09	-14.91	54.00	8.90	25.10

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Carrier frequency (MHz): 2480

Channel No.:78

Test Mode: π/4DQPSK Polarity: Horizontal Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)			
1	2480	75.96	41.96	N/A	N/A	8.90	25.10			
2	2483.5	42.13	8.13	-11.87	54	8.90	25.10			

Carrier frequency (MHz): 2402

Channel No.:0 Test Mode: 8DPSK Polarity: Vertical Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2402	89.22	55.22	N/A	N/A	8.90	25.10
2	2390	57.56	23.56	-16.44	74.00	8.90	25.10

Carrier frequency (MHz): 2402

Channel No.:0
Test Mode: 8DPSK
Polarity: Horizontal
Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2402	86.35	52.35	N/A	N/A	8.90	25.10
2	2390	55.44	21.44	-18.56	74	8.90	25.10

Carrier frequency (MHz): 2402

Channel No.:0 Test Mode: 8DPSK Polarity: Vertical Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2402	78.19	44.19	N/A	N/A	8.90	25.10
2	2390	39.12	5.12	-14.88	54.00	8.90	25.10

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Carrier frequency (MHz): 2402

Channel No.:0 Test Mode: 8DPSK Polarity: Horizontal Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2402	78.46	44.46	N/A	N/A	8.90	25.10
2	2390	42.76	8.76	-11.24	54	8.90	25.10

Carrier frequency (MHz): 2480

Channel No.:78
Test Mode: 8DPSK
Polarity: Vertical
Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2480	88.15	54.15	N/A	N/A	8.90	25.10
2	2483.5	57.01	23.01	-16.99	74.00	8.90	25.10

Carrier frequency (MHz): 2480

Channel No.:78
Test Mode: 8DPSK
Polarity: Horizontal
Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2480	88.28	54.28	N/A	N/A	8.90	25.10
2	2483.5	55.14	21.14	-18.86	74	8.90	25.10

Carrier frequency (MHz): 2480

Channel No.:78
Test Mode: 8DPSK
Polarity: Vertical
Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2480	78.96	44.96	N/A	N/A	8.90	25.10
2	2483.5	40.95	6.95	-13.05	54.00	8.90	25.10

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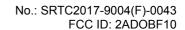
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Carrier frequency (MHz): 2480

Channel No.:78
Test Mode: 8DPSK
Polarity: Horizontal
Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2480	78.57	44.57	N/A	N/A	8.90	25.10
2	2483.5	41.11	7.11	-12.89	54	8.90	25.10





### Sample Calculations

**Determining Spurious Emissions Levels** 

A "reference path loss" is established and the  $A_{Rpl}$  is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

The measurement results are obtained as described below: Result=  $P_{mea}$  +  $A_{Rpl}$ 

Channel No.:39

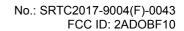
Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)
31.943888	32.60	20.0	12.60	Vertical	40.0
35.831663	27.20	18.2	9.00	Vertical	40.0
43.607214	26.10	14.1	12.00	Vertical	40.0
59.158317	20.10	7.2	12.90	Vertical	40.0
624.829659	22.70	23.6	-0.90	Vertical	46.0
951.402806	28.50	28.4	0.10	Vertical	46.0

For π/4DQPSK Channel No.:39

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)
\ /					
30.000000	28.60	21.0	7.50	Vertical	40.0
33.887776	28.10	19.0	9.10	Vertical	40.0
61.102204	18.70	7.1	11.60	Vertical	40.0
624.829659	22.70	23.6	-0.90	Vertical	46.0
723.967936	24.60	25.4	-0.80	Vertical	46.0
930.020040	28.10	28.2	-0.10	Vertical	46.0

### For 8DPSK Channel No.:39

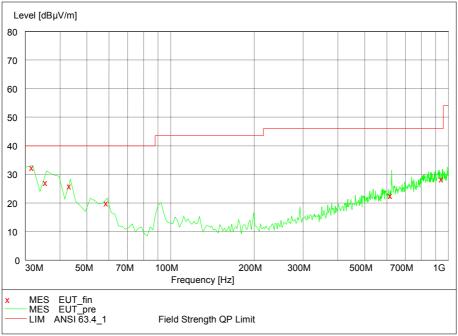
Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)
30.000000	28.70	21.0	7.70	Vertical	40.0
59.158317	19.10	7.2	11.90	Vertical	40.0
92.204409	19.50	11.3	8.20	Vertical	43.5
554.849699	21.30	22.3	-1.00	Vertical	46.0
624.829659	22.70	23.6	-0.90	Vertical	46.0
955.290581	28.60	28.6	-0.00	Vertical	46.0



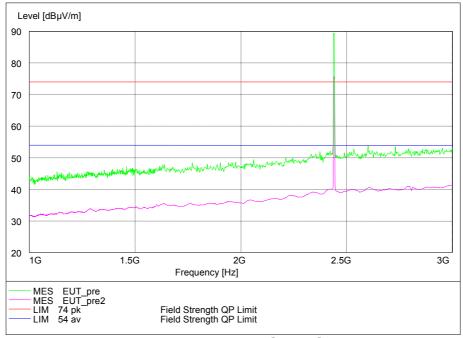


Carrier frequency (MHz): 2441

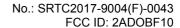
Channel No.:39



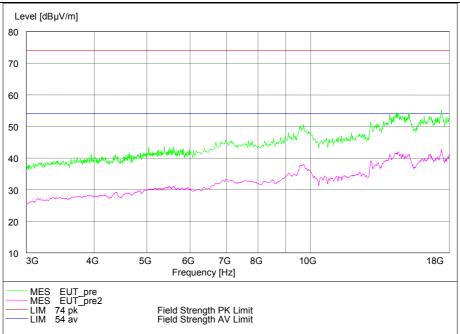
Frequency Range: 30MHz-1000MHz
Detector: QP mode
Modulation type: GFSK



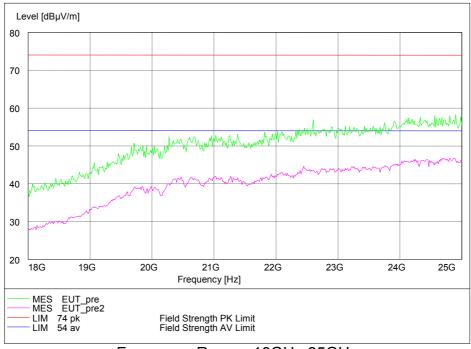
Frequency Range: 1GHz-3GHz Detector: Av mode and PK mode Modulation type: GFSK



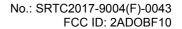




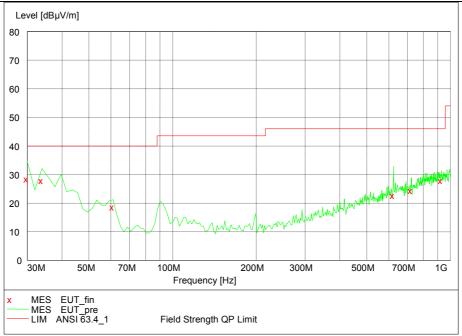
Frequency Range: 3GHz-18GHz Detector: Av mode and PK mode Modulation type: GFSK



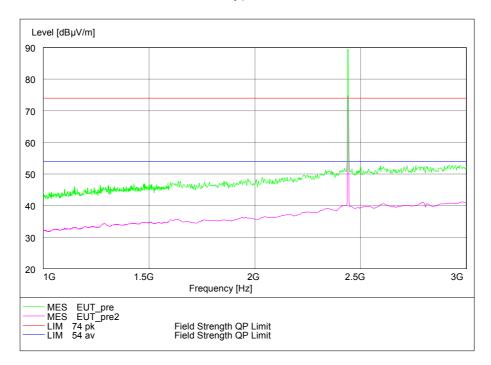
Frequency Range: 18GHz-25GHz Detector: Av mode and PK mode Modulation type: GFSK



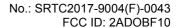




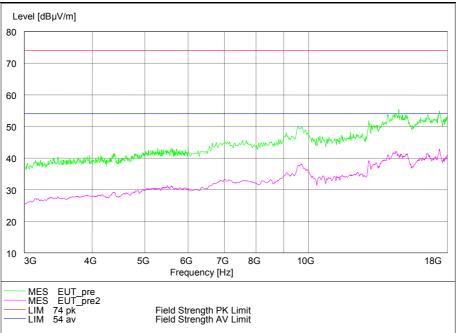
Frequency Range: 30MHz-1000 MHz Detector: QP mode Modulation type: π/4DQPSK



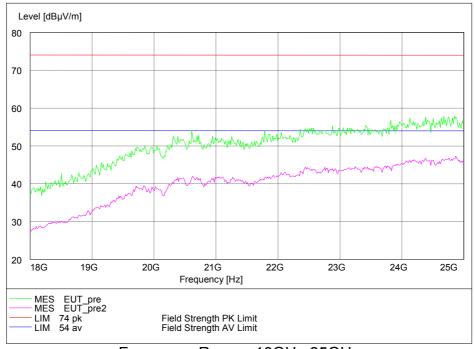
Frequency Range: 1GHz-3GHz
Detector: Av mode and PK mode
Modulation type: π/4DQPSK







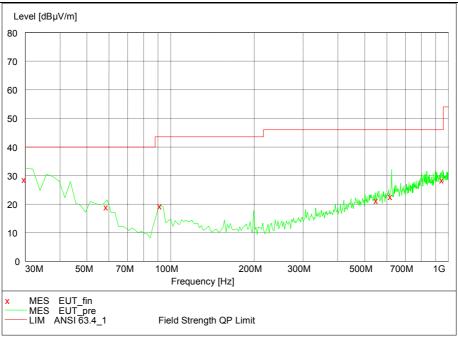
Frequency Range: 3GHz-18GHz Detector: Av mode and PK mode Modulation type: π/4DQPSK



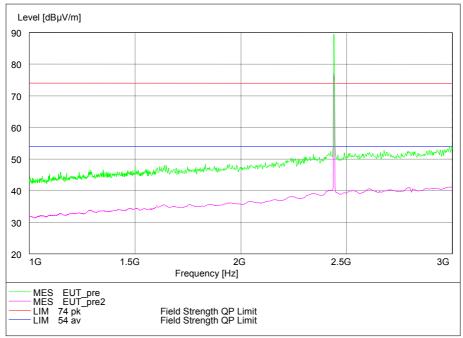
Frequency Range: 18GHz-25GHz Detector: Av mode and PK mode Modulation type: π/4DQPSK



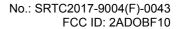




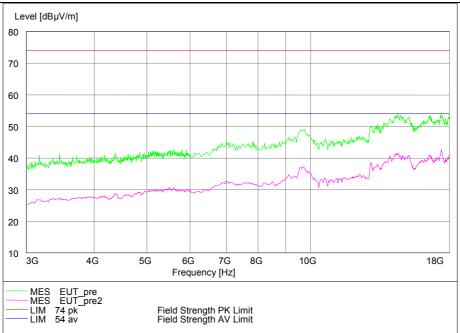
Frequency Range: 30MHz-1000 MHz
Detector: QP mode
Modulation type: 8DPSK



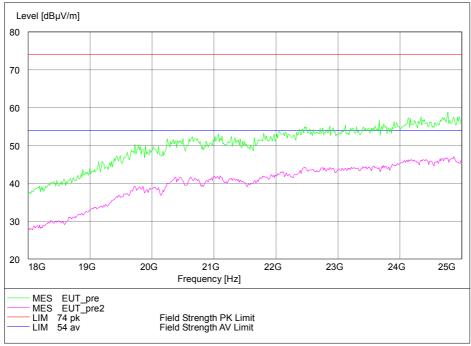
Frequency Range: 1GHz-3GHz Detector: Av mode and PK mode Modulation type: 8DPSK







Frequency Range: 3GHz-18GHz Detector: Av mode and PK mode Modulation type: 8DPSK

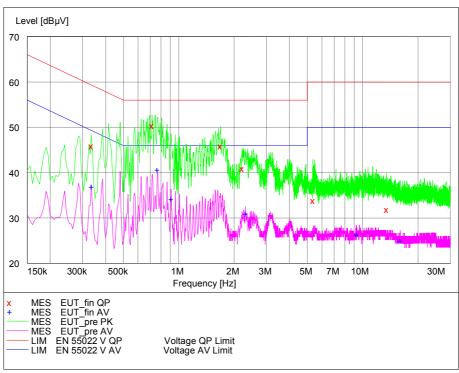


Frequency Range: 18GHz-25GHz Detector: Av mode and PK mode Modulation type: 8DPSK



#### **AC Power line Conducted Emission**

### Noise Level of the Measuring Instrument



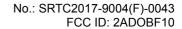
L Line

### MEASUREMENT RESULT: "EUT fin QP"

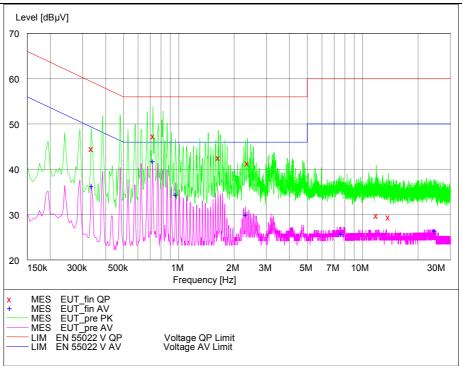
Frequency	Level	Transd	Limit	Margin	Line	PE
0.335000	46.00	29.6	59	13.3 -		
0.715000	50.50	29.5	56	5.5 -		
1.685000	45.90	29.5	56	10.1		
2.210000	41.00	29.5	56	15.0		
5.380000	33.90	29.6	60	26.1		
13.515000	32.00	30.0	60	28.0		

#### MEASUREMENT RESULT: "EUT\_fin AV"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	$dB\mu V$	dB	dΒμV	dB		
0.335000	36.90	29.6	49	12.4		
0.765000	40.60	29.4	46	5.4		
0.910000	34.20	29.5	46	11.8		
2.310000	31.00	29.6	46	15.0		
9.255000	26.30	29.8	50	23.7		
15.995000	25.00	30.1	50	25.0		







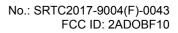
N Line

#### **MEASUREMENT RESULT: "EUT fin QP"**

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dΒμV	dB	dΒμV	dB		
0.335000	44.70	29.6	59	14.7 -		
0.725000	47.50	29.5	56	8.5 -		
1.640000	42.70	29.5	56	13.3 -		
2.360000	41.50	29.5	56	14.5 -		
11.870000	29.90	29.9	60	30.1 -		
13.795000	29.50	30.0	60	30.5 -		

#### MEASUREMENT RESULT: "EUT fin AV"

,						
Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dΒμV	dB	dΒμV	dB		
0.335000	36.30	29.6	49	13.1		
0.720000	41.80	29.5	46	4.2		
0.960000	34.40	29.5	46	11.6		
2.305000	30.00	29.6	46	16.0		
7.635000	25.80	29.7	50	24.2		
24.520000	26.50	31.1	50	23.5		

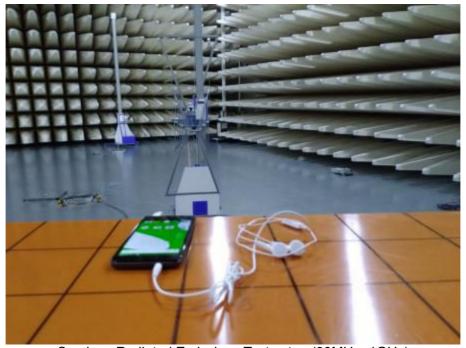




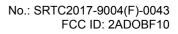
## **APPENDIX C - TEST SETUP**



Spurious RF Conducted Emissions Test setup

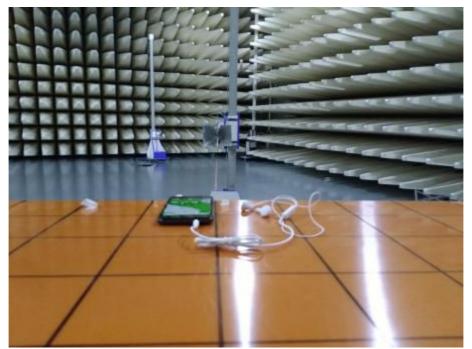


Spurious Radiated Emissions Test setup (30MHz~1GHz)



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Spurious Radiated Emissions Test setup (1GHz~25GHz)

---End of Test Report---

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