## **FCC RF Test Report**

APPLICANT : Rolling Wireless S.a r.l.

**EQUIPMENT**: CAT-M Module

BRAND NAME : Rolling Wireless

MODEL NAME : RW520-GL

FCC ID : 2AX2URW520GL

**STANDARD** : 47 CFR Part 22(H), 24(E)

CLASSIFICATION : PCS Licensed Transmitter (PCB)

TEST DATE(S) : Sep. 11, 2024 ~ Sep. 26, 2024

We, Sporton International Inc. (Shenzhen), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Shenzhen), the test report shall not be reproduced except in full.

JasonJia

Approved by: Jason Jia





Report No.: FG482606A

## Sporton International Inc. (ShenZhen)

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055

People's Republic of China

Sporton International Inc. (ShenZhen)

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## **REVISION HISTORY**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG482606A	Rev. 01	Initial issue of report	Oct. 11, 2024

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### **SUMMARY OF TEST RESULT**

Report Section	FCC Rule	Description	Limit	Result	Remark
	§2.1046	Conducted Output Power	-	Report Only	-
3.4	§22.913(a)(5)	Effective Radiated Power	< 7 Watts	PASS	-
	§24.232(c)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
3.5	§24.232(d)	Peak-to-Average Ratio	< 13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §22.917(a) §24.238(a)	Band Edge Measurement	< 43+10log10(P[Watts])	PASS	-
3.8	§2.1051 §22.917(a) §24.238(a)	Conducted Emission	< 43+10log10(P[Watts])	PASS	-
0.0	§2.1055 §22.355	Frequency Stability for	< 2.5 ppm for Part 22	DA 00	
3.9	§2.1055 §24.235  Temperature & Voltage	Within Authorized Band	PASS	-	
4.4		< 43+10log10(P[Watts])	PASS	Under limit 24.61 dB at 3296.80 MHz	

#### **Conformity Assessment Condition:**

#### Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

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The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits
or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of
non-compliance that may potentially occur if measurement uncertainty is taken into account.

<sup>2.</sup> The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

## 1 General Description

## 1.1 Applicant

Rolling Wireless S.a r.l.

8-10, rue Mathias Hardt 1717, Luxembourg

#### 1.2 Manufacturer

Rolling Wireless S.a r.l.

8-10, rue Mathias Hardt 1717, Luxembourg

## 1.3 Product Feature of Equipment Under Test

Product Feature				
Equipment	CAT-M Module			
Brand Name	Rolling Wireless			
Model Name	RW520-GL			
FCC ID	2AX2URW520GL			
IMEI Code	Conducted: 358365270000107 Radiation: 358365270000123			
HW Version	V1.4			
SW Version	69400.1006.00.22.04.02			
EUT Stage	Production Unit			

**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

## 1.4 Product Specification of Equipment Under Test

Standards-related Product Specification				
	GPRS/EDGE:			
Tx Frequency	850:	824 MHz ~ 849 MHz		
	1900:	1850MHz ~ 1910MHz		
	GPRS/E	DGE:		
Rx Frequency	850:	869 MHz ~ 894 MHz		
	1900:	1930 MHz ~ 1990 MHz		
	GPRS/E	DGE:		
Maximum Output Power to Antenna	850:	32.42 dBm		
	1900:	29.03 dBm		
Antenna Type	Monopole	Antenna/PIFA Antenna		
Antenna Gain	Cellular Band: 3.0 dBi			
Antenna Gain	PCS Band: 3.0 dBi			
Type of Modulation	GPRS: GI	_	_	
Type of inoudiation	EDGE: GMSK / 8PSK			

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Note: The maximum ERP/EIRP is calculated from max output power and antenna gain, due to the same antenna gain for the two types of antennas, only the ERP/EIRP of Monopole Antenna is shown in the report.

#### 1.5 Modification of EUT

No modifications are made to the EUT during all test items.

### 1.6 Maximum Conducted Power and Emission Designator

FCC Rule	Frequency Band	Frequency Range (MHz)	Type of Modulation	Maximum Conducted power (W)	Emission Designator
Part 22	GSM850 (GPRS)	824.2 ~ 848.8	GMSK	1.7458	242KGXW
Part 22	GSM850 (EDGE)	824.2 ~ 848.8	8PSK	0.3899	245KG7W
Part 24	GSM1900 (GPRS)	1850.2 ~ 1909.8	GMSK	0.7998	243KGXW
Part 24	GSM1900 (EDGE)	1850.2 ~ 1909.8	8PSK	0.3327	246KG7W

## 1.7 Testing Location

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (ShenZhen)								
Test Site Location	Shenzhen, 518055 Peop TEL: +86-755-86379589	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595							
Sporton Site No. FCC Designation No. Registration									
	TH01-SZ	CN1256	421272						

Test Firm	Sporton International Inc. (ShenZhen)				
Test Site Location		uilding 1, No. 2, Tengfeng et, Baoan District, Shenzhe s Republic of China			
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.		
	03CH04-SZ	CN1256	421272		

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#### 1.8 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH04-SZ	AUDIX	E3	6.2009-8-24

## 1.9 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 22(H), 24(E)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

#### Remark:

- 1. All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

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## 2 Test Configuration of Equipment Under Test

#### 2.1 Test Mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission. (X Plane)

Radiated emissions were investigated as following frequency range:

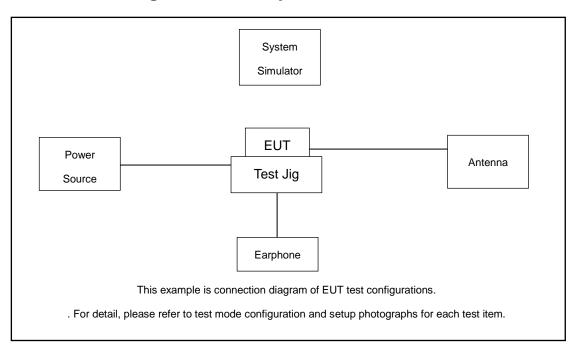
- 1. 30 MHz to 9000 MHz for GSM850.
- 30 MHz to 19100 MHz for GSM1900.

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

Test Modes					
Band	Radiated TCs	Conducted TCs			
GSM 850	■ GPRS 1 Tx slots Link	■ GPRS 1 Tx slots Link			
GSIVI 650	■ EDGE 1 Tx slots Link	■ EDGE 1 Tx slots Link			
CCM 4000	■ GPRS 1 Tx slots Link	■ GPRS 1 Tx slots Link			
GSM 1900	■ EDGE 1 Tx slots Link	■ EDGE 1 Tx slots Link			

### 2.2 Connection Diagram of Test System



The EUT has been configuration operated in a manner tended to maximize its emission characteristics in a typical application.

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## 2.3 Support Unit used in test configuration

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	Test Jig	N/A	N/A	N/A	N/A	N/A
3.	Adapter	N/A	N/A	N/A	N/A	N/A
4.	Earphone	N/A	N/A	N/A	N/A	N/A
5.	Antenna	N/A	N/A	N/A	N/A	N/A

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## 2.4 Measurement Results Explanation Example

#### For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

The following shows an offset computation example with RF cable loss 4.0 dB and a 10dB attenuator.

Example:

Offset(dB) = RF cable loss(dB) + attenuator factor(dB). = 4.0 + 10 = 14.0 (dB)

## 2.5 Frequency List of Low/Middle/High Channels

Frequency List						
Band Channel/Frequency(MHz) Lowest Middle Highest						
GSM850	Channel	128	189	251		
GSIVIOSO	Frequency	824.2	836.4	848.8		
GSM1900	Channel	512	661	810		
G3W1900	Frequency	1850.2	1880.0	1909.8		

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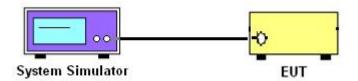
#### 3 Conducted Test Result

### 3.1 Measuring Instruments

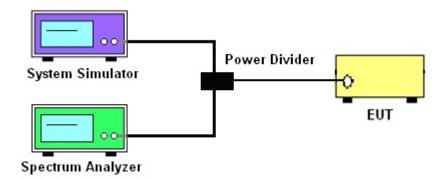
See list of measuring instruments of this test report.

### 3.2 Test Setup

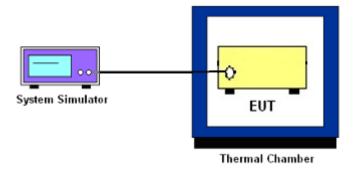
#### 3.2.1 Conducted Output Power



# 3.2.2 Peak-to-Average Ratio, Occupied Bandwidth, Conducted Band-Edge and Conducted Spurious Emission



#### 3.2.3 Frequency Stability



#### 3.3 Test Result of Conducted Test

Please refer to Appendix A.

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### 3.4 Conducted Output Power and ERP/EIRP

#### 3.4.1 Description of the Conducted Output Power and ERP/EIRP

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The ERP of mobile transmitters must not exceed 7 Watts for GSM850.

The EIRP of mobile transmitters must not exceed 2 Watts for GSM1900.

According to KDB 412172 D01 Power Approach,

 $EIRP = P_T + G_T - L_C$ , ERP = EIRP - 2.15, where

P<sub>T</sub> = transmitter output power in dBm

 $G_T$  = gain of the transmitting antenna in dBi

L<sub>C</sub> = signal attenuation in the connecting cable between the transmitter and antenna in dB

### 3.4.2 Test Procedures

- The testing follows ANSI C63.26 Section 5.2
- 2. The transmitter output port was connected to the system simulator.
- 3. Set EUT at maximum power through the system simulator.
- 4. Select lowest, middle, and highest channels for each band and different modulation.
- 5. Measure and record the power level from the system simulator.

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### 3.5 Peak-to-Average Ratio

#### 3.5.1 Description of the PAR Measurement

The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

#### 3.5.2 Test Procedures

- 1. The testing follows ANSI C63.26 Section 5.2.3.4 (CCDF).
- 2. The EUT was connected to spectrum and system simulator via a power divider.
- 3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
- 4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
- 5. Record the deviation as Peak to Average Ratio.

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3.6 99% Occupied Bandwidth and 26dB Bandwidth Measurement

3.6.1 Description of 99% Occupied Bandwidth and 26dB Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of

the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and

one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB

below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit

bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of

the emission bandwidth.

3.6.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.4

2. The EUT was connected to spectrum analyzer and system simulator via a power divider.

3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency.

The span range for the spectrum analyzer shall be between two and five times the anticipated

OBW.

4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated

OBW, and the VBW shall be at least 3 times the RBW.

5. Set the detection mode to peak, and the trace mode to max hold.

6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to

stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.

(this is the reference value)

7. Determine the "-26 dB down amplitude" as equal to (Reference Value - X).

8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of

the spectral display such that each marker is at or slightly below the "-X dB down amplitude"

determined in step 6. If a marker is below this "-X dB down amplitude" value it shall be placed

as close as possible to this value. The OBW is the positive frequency difference between the

two markers.

9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured

bandwidth.

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### 3.7 Conducted Band Edge

#### 3.7.1 Description of Conducted Band Edge Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

#### 3.7.2 Test Procedures

- 1. The testing follows ANSI C63.26 section 5.7
- 2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
- The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator.The path loss was compensated to the results for each measurement.
- 4. The band edges of low and high channels for the highest RF powers were measured.
- 5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 6. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

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### 3.8 Conducted Spurious Emission

#### 3.8.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10<sup>th</sup> harmonic.

#### 3.8.2 Test Procedures

- 1. The testing follows ANSI C63.26 section 5.7
- 2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
- 3. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 4. The middle channel for the highest RF power within the transmitting frequency was measured.
- 5. The conducted spurious emission for the whole frequency range was taken.
- 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 7. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

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### 3.9 Frequency Stability

#### 3.9.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency.

#### 3.9.2 Test Procedures for Temperature Variation

- 1. The testing follows ANSI C63.26 section 5.6.4
- 2. The EUT was set up in the thermal chamber and connected with the system simulator.
- With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
- 4. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

#### 3.9.3 Test Procedures for Voltage Variation

- 1. The testing follows ANSI C63.26 section 5.6.5
- 2. The EUT was placed in a temperature chamber at 20±5°C and connected with the system simulator.
- 3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
- 4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
- 5. The variation in frequency was measured for the worst case.

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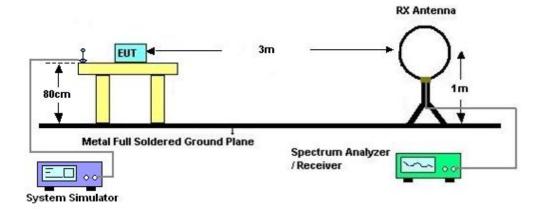
### 4 Radiated Test Items

## 4.1 Measuring Instruments

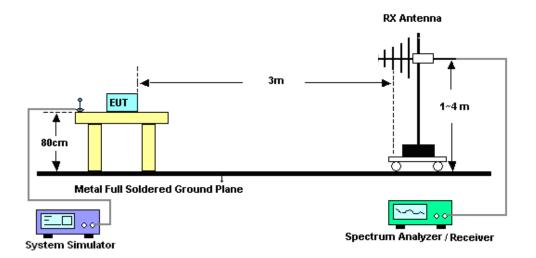
See list of measuring instruments of this test report.

## 4.2 Test Setup

#### 4.2.1 For radiated test below 30MHz



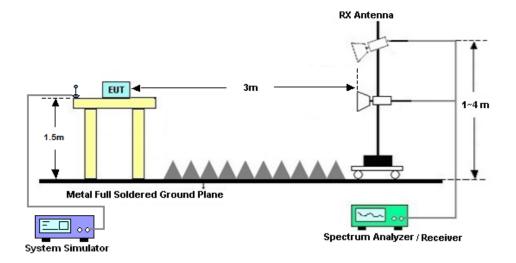
#### 4.2.2 For radiated test from 30MHz to 1GHz



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#### 4.2.3 For radiated test above 1GHz



#### 4.3 Test Result of Radiated Test

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

Please refer to Appendix B.

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### 4.4 Field Strength of Spurious Radiation Measurement

#### 4.4.1 Description of Field Strength of Spurious Radiated Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

#### 4.4.2 Test Procedures

- 1. The testing follows ANSI C63.26 Section 5.5
- 2. The EUT was placed on a rotatable wooden table 0.8 meters for frequency below 1GHz and 1.5 meter for frequency above 1GHz above the ground.
- 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 5. The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations.
- 6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission.
- 7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 9. Taking the record of output power at antenna port.
- 10. Repeat step 7 to step 8 for another polarization.
- 11. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 12.ERP (dBm) = EIRP 2.15
- 13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 14. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts).

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## 5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 09, 2024	Sep. 11, 2024~ Sep. 12, 2024	Apr. 08, 2025	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V , 3A	Oct. 16, 2023	Sep. 11, 2024~ Sep. 12, 2024	Oct. 15, 2024	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 25, 2023	Sep. 11, 2024~ Sep. 12, 2024	Dec. 24, 2024	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 03, 2024	Sep. 11, 2024~ Sep. 12, 2024	Jul. 02, 2025	Conducted (TH01-SZ)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Oct. 18, 2023	Sep. 26, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 03, 2024	Sep. 26, 2024	Jul. 02, 2025	Radiation (03CH04-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 29, 2023	Sep. 26, 2024	Dec. 28, 2024	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	May 09 2024	Sep. 26, 2024	May 08, 2025	Radiation (03CH04-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1474	1GHz~18GHz	Jul. 07, 2023	Sep. 26, 2024	Jul. 06, 2025	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	9170#679	15GHz~40GHz	Jul. 04, 2024	Sep. 26, 2024	Jul. 03, 2025	Radiation (03CH04-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 18, 2023	Sep. 26, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P-R	1943528	1GHz~18GHz	Oct. 18, 2023	Sep. 26, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 03, 2024	Sep. 26, 2024	Jul. 02, 2025	Radiation (03CH04-SZ)
Amplifier	Agilent Technologies	83017A	MY57280136	500MHz~26.5GHz	Jul. 03, 2024	Sep. 26, 2024	Jul. 02, 2025	Radiation (03CH04-SZ)
AC Power Source	APC	AFV-S-600B	F119050019	N/A	Oct. 18, 2023	Sep. 26, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)

NCR: No Calibration Required

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## 6 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

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#### **Uncertainty of Conducted Measurement**

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	±1.34 dB
Occupied Channel Bandwidth	±0.012 MHz
Conducted Power	±1.34 dB
Peak to Average Ratio	±1.34 dB
Frequency Stability	±1.3 Hz

#### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

I	Measuring Uncertainty for a Level of	2.8 dB
	Confidence of 95% (U = 2Uc(y))	2.0 UB

#### **Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)**

Measuring Uncertainty for a Level of	3.1 dB
Confidence of 95% (U = 2Uc(y))	3.1 UD

#### **Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)**

	<u> </u>
Measuring Uncertainty for a Level of	3.9 dB
Confidence of 95% (U = 2Uc(y))	

----- THE END -----

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## **Appendix A. Test Results of Conducted Test**

Tost Engineer :	Flv	Temperature :	22~23℃
Test Engineer :		Relative Humidity:	40~42%

## Conducted Output Power(Average power) and ERP/EIRP

#### GSM850:

GSM850	Burst /	Burst Average Power (dBm)		ERP(W)		
TX Channel	128	189	251	ERF(VV)		
Frequency (MHz)	824.2	836.4	848.8	L	М	Н
GPRS 1 Tx slot	32.42	32.41	32.03	2.1232	2.1184	1.9409
GPRS 2 Tx slots	28.87	29.09	28.84	0.9376	0.9863	0.9311
GPRS 3 Tx slots	27.83	28.06	27.90	0.7379	0.7780	0.7499
GPRS 4 Tx slots	26.85	26.88	26.80	0.5888	0.5929	0.5821
EDGE 1 Tx slot	25.91	25.73	25.58	0.4742	0.4550	0.4395
EDGE 2 Tx slots	24.77	24.61	24.56	0.3648	0.3516	0.3475
EDGE 3 Tx slots	22.73	22.57	22.38	0.2280	0.2198	0.2104
EDGE 4 Tx slots	21.54	21.58	21.35	0.1734	0.1750	0.1660

#### GSM1900:

GSM1900	Burst A	verage Powe	r (dBm)	EIRP(W)		
TX Channel	512	661	810	EIRF(VV)		
Frequency (MHz)	1850.2	1880	1909.8	L	M	Н
GPRS 1 Tx slot	29.03	28.62	28.91	1.5959	1.4521	1.5524
GPRS 2 Tx slots	27.42	27.11	27.42	1.1015	1.0257	1.1015
GPRS 3 Tx slots	25.63	25.16	25.39	0.7295	0.6546	0.6902
GPRS 4 Tx slots	24.61	24.12	24.47	0.5768	0.5152	0.5585
EDGE 1 Tx slot	25.22	24.89	24.72	0.6637	0.6152	0.5916
EDGE 2 Tx slots	24.05	23.87	23.66	0.5070	0.4864	0.4634
EDGE 3 Tx slots	23.02	22.68	22.63	0.3999	0.3698	0.3656
EDGE 4 Tx slots	21.96	21.62	21.58	0.3133	0.2897	0.2871

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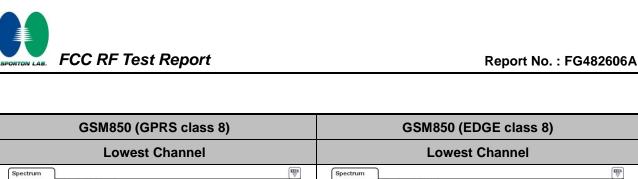
## A1. GSM

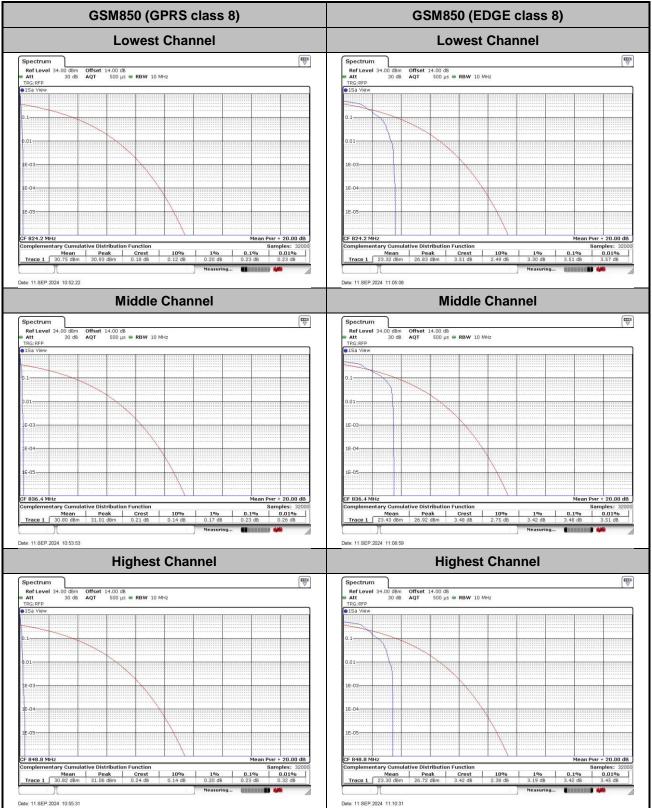
## Peak-to-Average Ratio

Mode	GSM8	Limit: 13dB	
Mod.	GPRS class 8	GPRS class 8 EDGE class 8	
Lowest CH	0.23	3.51	
Middle CH	0.23	3.48	PASS
Highest CH	0.23	3.42	

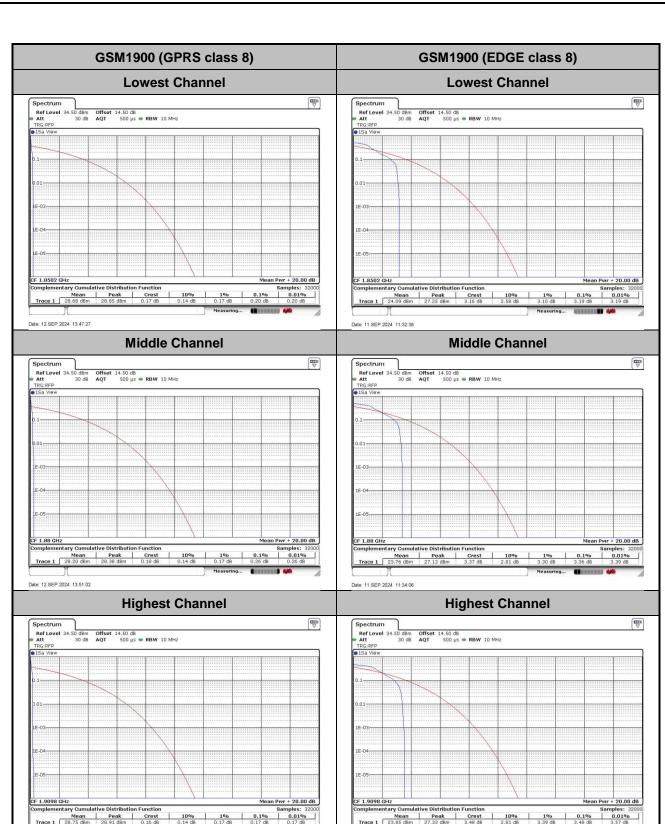
Mode	GSM19	Limit: 13dB	
Mod.	GPRS class 8	EDGE class 8	Result
Lowest CH	0.20	3.19	
Middle CH	0.26	3.36	PASS
Highest CH	0.17	3.48	

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## 26dB Bandwidth

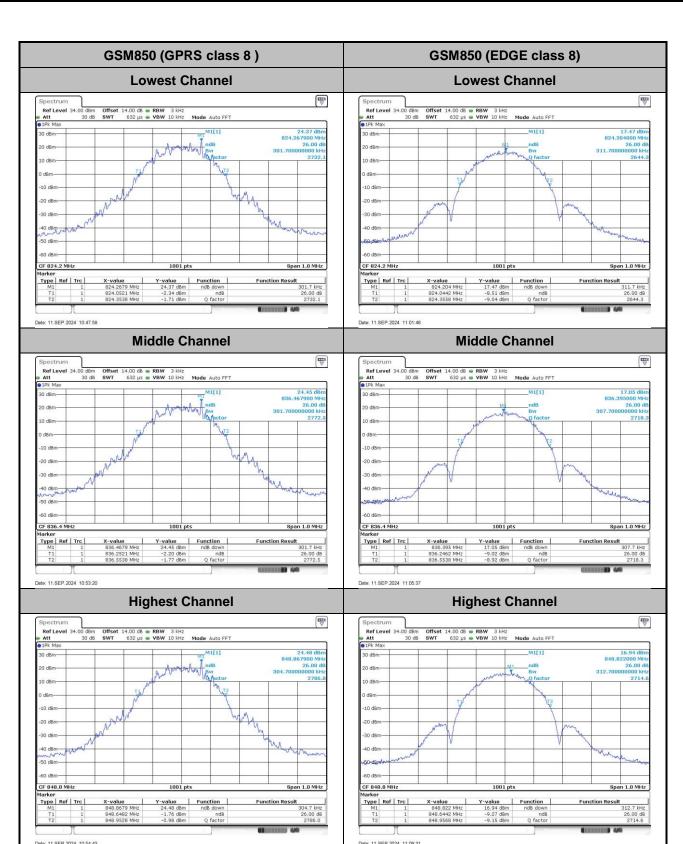
Mode	GSM850(MHz)				
Mod.	GPRS class 8	EDGE class 8			
Lowest CH	0.30	0.31			
Middle CH	0.30	0.31			
Highest CH	0.30	0.31			

Mode	GSM1900(MHz)			
Mod.	GPRS class 8	EDGE class 8		
Lowest CH	0.31	0.31		
Middle CH	0.32	0.31		
Highest CH	0.32	0.31		

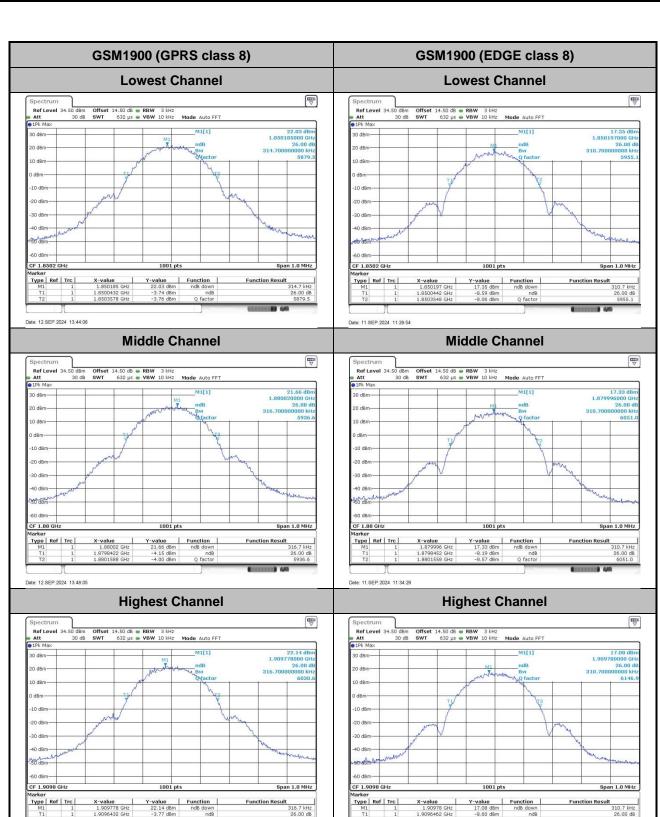
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## Occupied Bandwidth

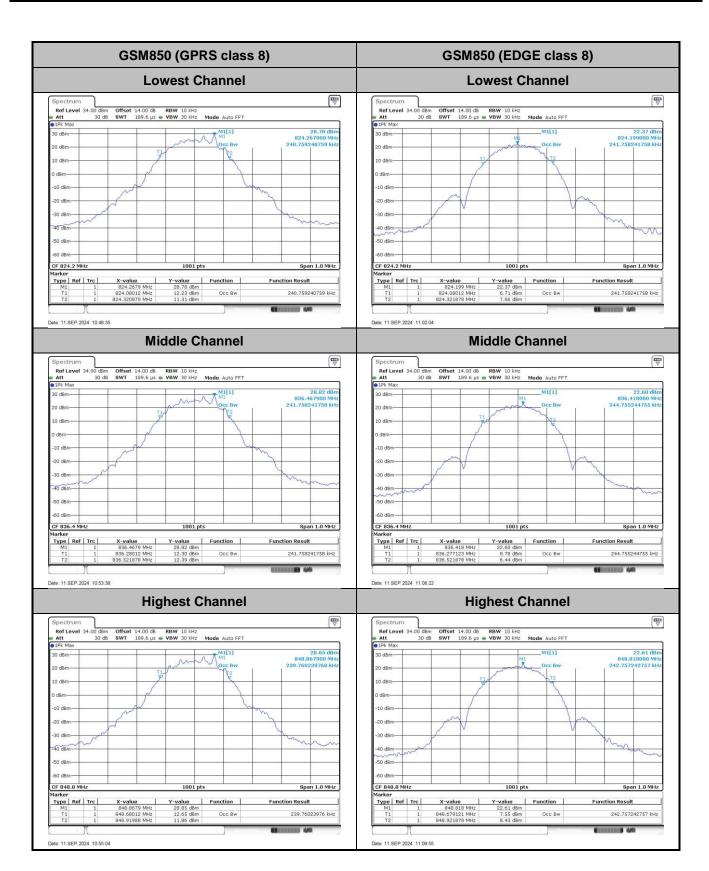
Mode	GSM850(MHz)						
Mod.	Mod. GPRS class 8 EDGE class						
Lowest CH	0.241	0.242					
Middle CH	0.242	0.245					
Highest CH	0.240	0.243					

Mode	GSM1900(MHz)					
Mod.	GPRS class 8	EDGE class 8				
Lowest CH	0.243	0.242				
Middle CH	0.243	0.245				
Highest CH	0.242	0.246				

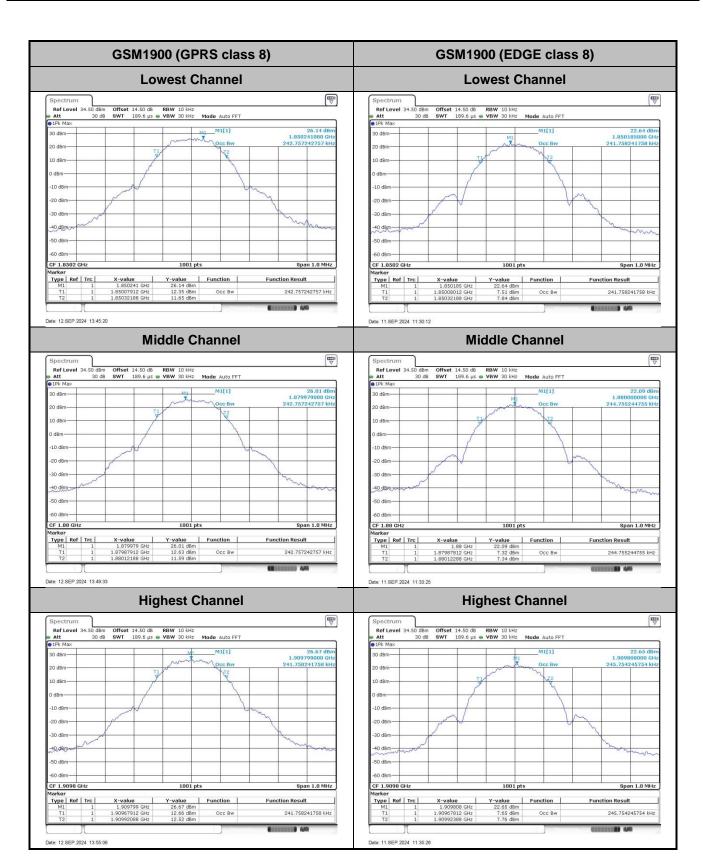
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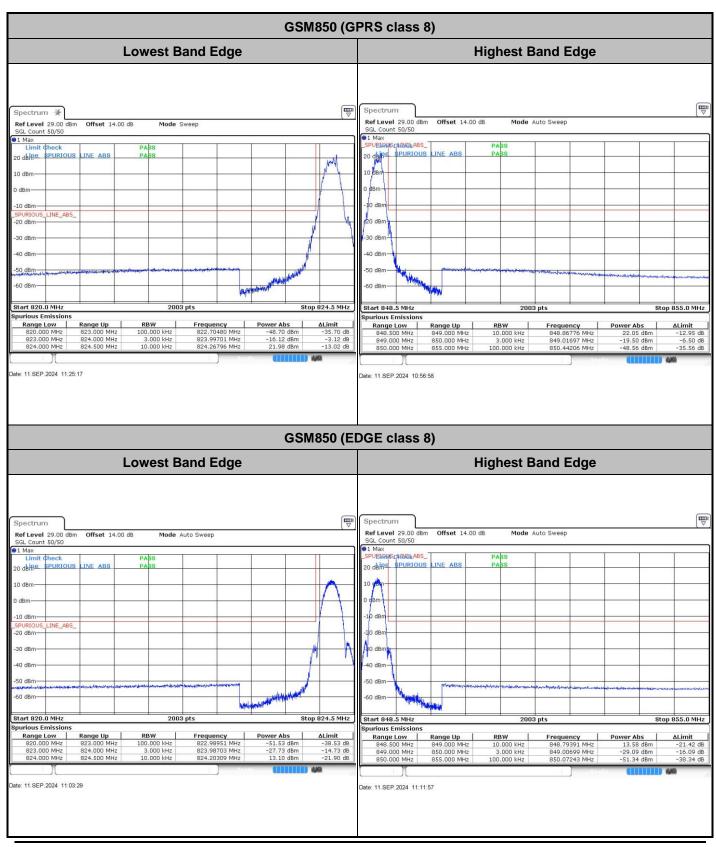


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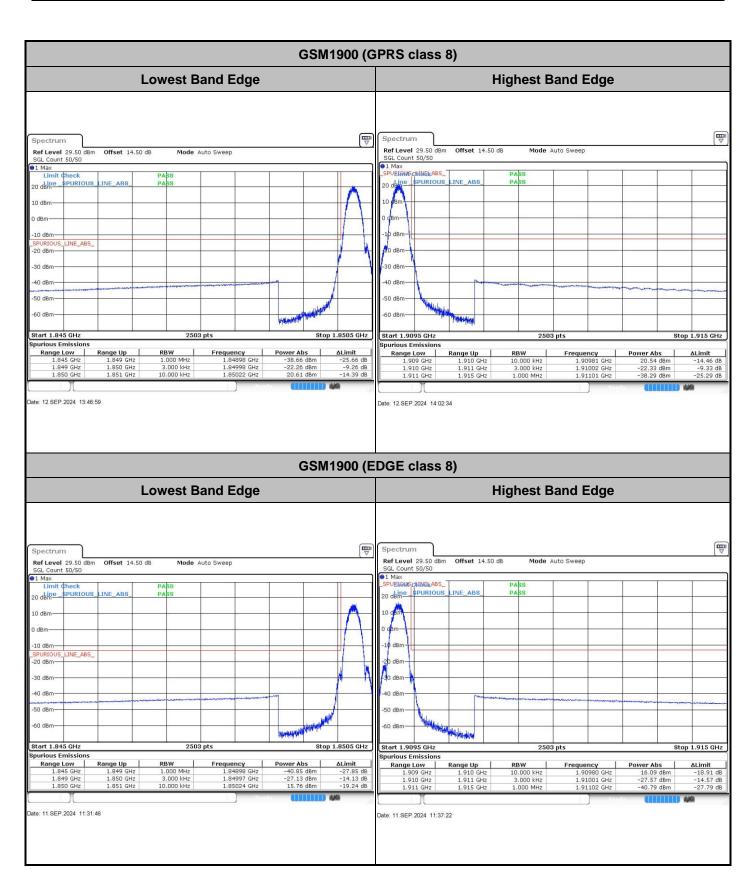
## **Conducted Band Edge**



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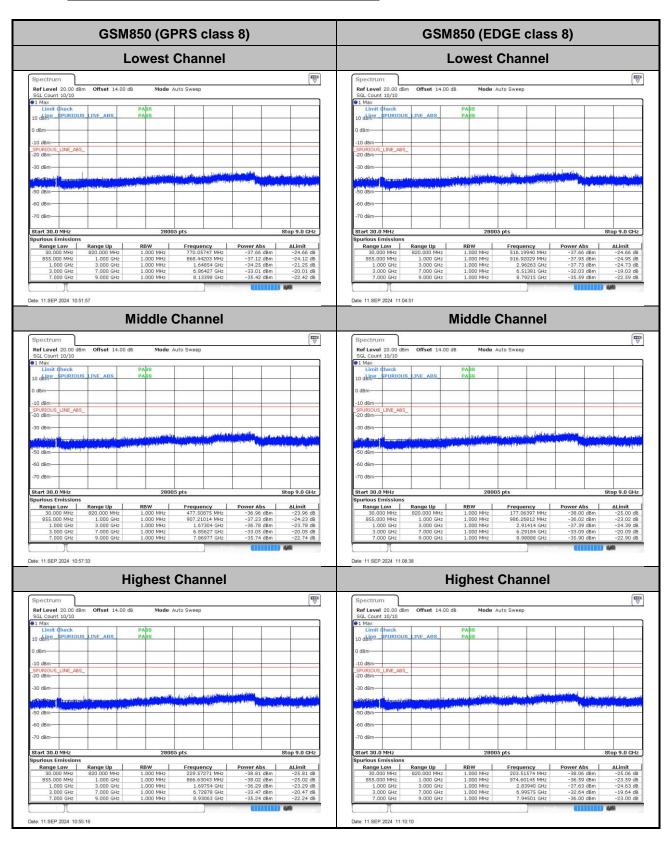
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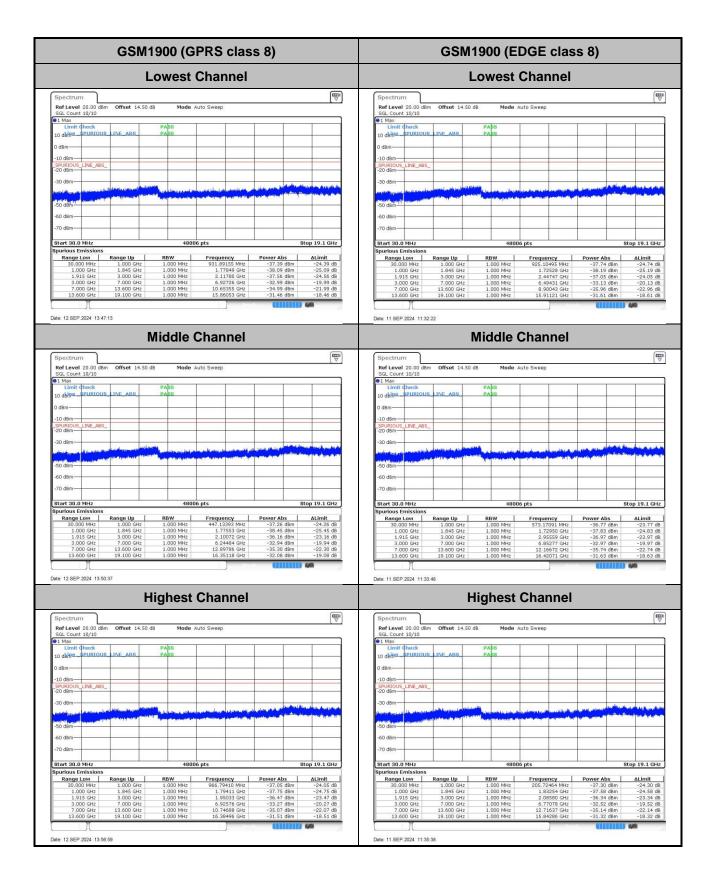
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## **Conducted Spurious Emission**



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## Frequency Stability

Test Conditions	Middle Channel	GSM850 (GPRS class 8)	GSM850 (EDGE class 8)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviatio	n (ppm)	Result
50	Normal Voltage	0.0006	0.0004	
40	Normal Voltage	0.0003	0.0012	
30	Normal Voltage	0.0011	0.0017	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0003	0.0010	
0	Normal Voltage	0.0004	0.0025	
-10	Normal Voltage	0.0008	0.0019	PASS
-20	Normal Voltage	0.0009	0.0024	
-30	Normal Voltage	0.0010	0.0010	
20	Maximum Voltage	0.0005	0.0006	
20	Normal Voltage	0.0000	0.0000	
20	Minimum Voltage	0.0002	0.0017	

Test Conditions	Middle Channel	GSM1900 (GPRS class 8)	GSM1900 (EDGE class 8)	Limit Note.2
Temperature (°C)	Voltage (Volt)	Deviatio	n (ppm)	Result
50	Normal Voltage	0.0012	0.0014	
40	Normal Voltage	0.0011	0.0007	
30	Normal Voltage	0.0016	0.0024	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0009	0.0006	
0	Normal Voltage	0.0011	0.0010	
-10	Normal Voltage	0.0007	0.0018	PASS
-20	Normal Voltage	0.0014	0.0020	
-30	Normal Voltage	0.0028	0.0022	
20	Maximum Voltage	0.0026	0.0012	
20	Normal Voltage	0.0000	0.0000	
20	Minimum Voltage	0.0015	0.0005	

#### Note:

- 1. Normal Voltage = 3.3V.; Minimum Voltage = 3.135 V.; Maximum Voltage = 3.63 V
- 2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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## **Appendix B. Test Results of Radiated Test**

## **Radiated Spurious Emission**

Test Engineer :	ZhangXu	Temperature :	22~25°C
		Relative Humidity :	48~52%

RSE pretest all the supported Antennas, only the worst results are shown in the report.

GSM850 (GPRS 1 Tx slots) / Monopole Antenna										
Channel	Frequency (MHz)	ERP (dBm)	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)	
	1648.4	-37.80	-13	-24.80	-45.72	-41.03	3.98	9.36	Н	
	2472.6	-60.34	-13	-47.34	-72.09	-63.89	4.85	10.55	Н	
Lowest	3296.8	-37.61	-13	-24.61	-52.08	-42.54	5.50	12.58	Н	
Lowest	1648.4	-46.33	-13	-33.33	-54.29	-49.56	3.98	9.36	V	
	2472.6	-60.57	-13	-47.57	-72.36	-64.12	4.85	10.55	V	
	3296.8	-38.95	-13	-25.95	-53.33	-43.88	5.50	12.58	V	
	1672.8	-42.91	-13	-29.91	-50.33	-46.16	4.00	9.40	Н	
	2509.2	-64.10	-13	-51.10	-75.87	-67.67	4.88	10.60	Н	
Middle	3345.6	-43.29	-13	-30.29	-57.60	-48.22	5.52	12.60	Н	
Middle	1672.8	-47.48	-13	-34.48	-55.09	-50.73	4.00	9.40	V	
	2509.2	-64.10	-13	-51.10	-75.99	-67.67	4.88	10.60	V	
	3345.6	-43.57	-13	-30.57	-57.90	-48.50	5.52	12.60	V	
	1697.6	-44.64	-13	-31.64	-52.27	-47.81	4.10	9.42	Н	
	2546.4	-60.36	-13	-47.36	-72.44	-63.94	4.90	10.63	Н	
l liada a c t	3395.2	-46.12	-13	-33.12	-60.34	-51.04	5.55	12.62	Н	
Highest	1697.6	-51.54	-13	-38.54	-59.35	-54.71	4.10	9.42	V	
	2546.4	-59.95	-13	-46.95	-72.04	-63.53	4.90	10.63	V	
	3395.2	-52.98	-13	-39.98	-67.21	-57.90	5.55	12.62	V	

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

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	GSM850 (EDGE 1 Tx slots) / Monopole Antenna										
Channel	Frequency (MHz)	ERP (dBm)	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)		
	1648.4	-38.43	-13	-25.43	-46.35	-41.66	3.98	9.36	Н		
	2472.6	-60.17	-13	-47.17	-71.92	-63.72	4.85	10.55	Н		
Lowest	3296.8	-38.08	-13	-25.08	-52.55	-43.01	5.50	12.58	Н		
Lowest	1648.4	-48.24	-13	-35.24	-56.20	-51.47	3.98	9.36	V		
	2472.6	-61.59	-13	-48.59	-73.38	-65.14	4.85	10.55	V		
	3296.8	-41.42	-13	-28.42	-55.80	-46.35	5.50	12.58	V		
	1672.8	-65.64	-13	-52.64	-73.06	-68.89	4.00	9.40	Н		
	2509.2	-64.39	-13	-51.39	-76.16	-67.96	4.88	10.60	Н		
Middle	3345.6	-43.03	-13	-30.03	-57.34	-47.96	5.52	12.60	Н		
Middle	1672.8	-66.74	-13	-53.74	-74.35	-69.99	4.00	9.40	V		
	2509.2	-64.07	-13	-51.07	-75.96	-67.64	4.88	10.60	V		
	3345.6	-46.21	-13	-33.21	-60.54	-51.14	5.52	12.60	V		
	1697.6	-45.96	-13	-32.96	-53.59	-49.13	4.10	9.42	Н		
	2546.4	-63.29	-13	-50.29	-75.37	-66.87	4.90	10.63	Н		
Highest	3395.2	-48.78	-13	-35.78	-63.00	-53.70	5.55	12.62	Н		
	1697.6	-51.07	-13	-38.07	-58.88	-54.24	4.10	9.42	V		
	2546.4	-62.34	-13	-49.34	-74.43	-65.92	4.90	10.63	V		
	3395.2	-54.44	-13	-41.44	-68.67	-59.36	5.55	12.62	V		

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

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	GSM1900 (GPRS 1 Tx slots) / Monopole Antenna										
Channel	Frequency (MHz)	EIRP (dBm)	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)		
	3700.4	-60.12	-13	-47.12	-75.57	-66.88	5.82	12.58	Н		
	5550.6	-61.61	-13	-48.61	-81.12	-67.33	7.28	13.00	Н		
Lowest	7400.8	-55.64	-13	-42.64	-80.45	-58.80	8.32	11.48	Н		
Lowest	3700.4	-54.67	-13	-41.67	-69.87	-61.43	5.82	12.58	V		
	5550.6	-61.91	-13	-48.91	-81.27	-67.63	7.28	13.00	V		
	7400.8	-55.14	-13	-42.14	-80.26	-58.30	8.32	11.48	V		
	3760	-58.84	-13	-45.84	-74.47	-65.59	5.85	12.60	Н		
	5640	-60.35	-13	-47.35	-80.67	-66.15	7.30	13.10	Н		
Mi alalla	7520	-56.11	-13	-43.11	-80.74	-59.26	8.35	11.50	Н		
Middle	3760	-50.73	-13	-37.73	-65.92	-57.48	5.85	12.60	V		
	5640	-56.02	-13	-43.02	-75.13	-61.82	7.30	13.10	V		
	7520	-55.57	-13	-42.57	-80.62	-58.72	8.35	11.50	V		
	3819.6	-54.55	-13	-41.55	-70.30	-61.29	5.88	12.62	Н		
	5729.4	-43.24	-13	-30.24	-64.28	-49.05	7.32	13.13	Н		
Highest	7639.2	-55.64	-13	-42.64	-79.98	-58.80	8.38	11.54	Н		
	3819.6	-50.16	-13	-37.16	-65.43	-56.90	5.88	12.62	V		
	5729.4	-43.83	-13	-30.83	-64.04	-49.64	7.32	13.13	V		
	7639.2	-55.50	-13	-42.50	-80.37	-58.66	8.38	11.54	V		

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Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

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	GSM1900 (EDGE 1 Tx slots) / Monopole Antenna										
Channel	Frequency (MHz)		Limit (dBm)	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )		TX Antenna Gain (dBi)	Polarization (H/V)		
	3700.4	-60.28	-13	-47.28	-75.73	-67.04	5.82	12.58	Н		
	5550.6	-61.81	-13	-48.81	-81.32	-67.53	7.28	13.00	Н		
Lowoot	7400.8	-55.76	-13	-42.76	-80.57	-58.92	8.32	11.48	Н		
Lowest	3700.4	-53.66	-13	-40.66	-68.86	-60.42	5.82	12.58	V		
	5550.6	-62.07	-13	-49.07	-81.43	-67.79	7.28	13.00	V		
	7400.8	-55.71	-13	-42.71	-80.83	-58.87	8.32	11.48	V		
	3760	-58.46	-13	-45.46	-74.09	-65.21	5.85	12.60	Н		
	5640	-57.77	-13	-44.77	-78.09	-63.57	7.30	13.10	Н		
M: dalla	7520	-56.30	-13	-43.30	-80.93	-59.45	8.35	11.50	Н		
Middle	3760	-55.51	-13	-42.51	-70.7	-62.26	5.85	12.60	V		
	5640	-55.58	-13	-42.58	-74.69	-61.38	7.30	13.10	V		
	7520	-55.81	-13	-42.81	-80.86	-58.96	8.35	11.50	V		
	3819.6	-56.13	-13	-43.13	-71.88	-62.87	5.88	12.62	Н		
	5729.4	-51.34	-13	-38.34	-72.38	-57.15	7.32	13.13	Н		
I Bada a st	7639.2	-56.25	-13	-43.25	-80.59	-59.41	8.38	11.54	Н		
Highest	3819.6	-52.22	-13	-39.22	-67.49	-58.96	5.88	12.62	V		
	5729.4	-41.34	-13	-28.34	-61.55	-47.15	7.32	13.13	V		
	7639.2	-55.47	-13	-42.47	-80.34	-58.63	8.38	11.54	V		

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: 2AX2URW520GL