


**ELECTROMAGNETIC EMISSIONS  
COMPLIANCE REPORT**

**Applicant:** CASTLES TECHNOLOGY CO., LTD.  
6F, NO. 207-5, SEC. 3, BEIXIN RD., XINDIAN DISTRICT,  
NEW TAIPEI CITY 231030, TAIWAN (R.O.C)

**Manufacturer:** CASTLES TECHNOLOGY CO., LTD.  
6F, NO. 207-5, SEC. 3, BEIXIN RD., XINDIAN DISTRICT,  
NEW TAIPEI CITY 231030, TAIWAN (R.O.C)

**Product Name:** Smart module

**Brand Name:** 

**Model No.:** SLM500

**Report Number:** TERF2408002263E2

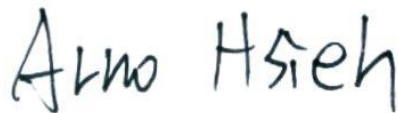
**FCC ID** WIYSLM500QA

**IC:** 27350-SLM500QA

**Date of EUT Received:** August 1, 2024

**Date of Test:** August 12, 2024~August 26, 2024

**Issue Date:** October 8, 2024

*Approved By*   
**Arno Hsieh**

**We hereby certify that:**

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.26-2015 and the energy emitted by the sample EUT comply with FCC rule part 2, 22H & 24E & 27C and ISSED RSS-Gen, 132, 133, 139.

The results of this report relate only to the sample identified in this report.

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## Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2408002263E2	00	Original	September 5, 2024	Susan Lin	
TERF2408002263E2	01	Add section 8	October 8, 2024	Susan Lin	*

**Note:**

- 1、The remark "\*" indicates modification of the report upon requests from certification body.

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## 1 GENERAL PRODUCT INFORMATION

### 1.1 Product Description

Product Name:	Smart module
Brand Name:	
Model No.:	SLM500
Hardware Version:	V1F.00
Firmware Version:	N/A
EUT Series No.:	196242025220
Product Name of Host:	POS Terminal
Brand Name of Host:	
Model No. of Host:	S1E2-UPT
Power Supply:	9Vdc from Adapter
Test Software (Name/Version):	Default

### 1.2 Operation Frequency Range

Operating Frequency (MHz)	
GSM/GPRS/EDGE 850	824.2 - 848.8
GSM/GPRS/EDGE 1900	1850.2 - 1909.8

Operating Frequency (MHz)	
WCDMA / HSPA+ Band II	1852.4 - 1907.6
WCDMA / HSPA+ Band IV	1712.4 - 1752.6
WCDMA / HSPA+ Band V	826.4 - 846.6

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### 1.3 Antenna Designation

Antenna Type	Antenna Model No.
Dipole	S1E2-UPT
<b>Note:</b> Transmission frequencies in this test report are only available by the above antenna(s).	

Modulation	Frequency (MHz)	Peak Antenna Gain (dBi)
GSM/GPRS/EDGE 850	824.2 - 848.8	2.67
GSM/GPRS/EDGE 1900	1850.2 - 1909.8	2.4
WCDMA / HSPA+ Band II	1852.4 - 1907.6	2.4
WCDMA / HSPA+ Band IV	1712.4 - 1752.6	2.21
WCDMA / HSPA+ Band V	826.4 - 846.6	2.67

**Note:** Antenna information is provided by the applicant.

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#### 1.4 Test Methodology of Applied Standards

FCC 47 CFR Part 2, 22H, 24E, 27C

ISED RSS-GEN Issue 5 Amendment 2 Feb. 2021

ISED RSS-132 Issue 4 January 2023

ISED RSS-133 Issue 7 Jul. 2024

ISED RSS-139 Issue 4 September 29, 2022

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03r01

KDB941225 D01 SAR test for 3G devices v03r01 (SAR Measurement Procedures for 3G Devices, WCDMA / HSPA) was used for EUT and Base station setting.

KDB412172 D01 Determining ERP and EIRP v01r01

TS 151 010-1 is used to set, and measure the output power.

#### 1.5 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	TW3702
		SAC 2		
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
Conducted G				
<b>Note:</b> Test site name is remarked on the equipment list in each section of this report as an indica- tion where measurements occurred in specific test site and address.				

#### 1.6 Special Accessories

No special accessories were used during testing.

#### 1.7 Equipment Modifications

There was no modifications incorporated into the EUT.

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### 1.8 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m\*6m\*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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## 2 SYSTEM TEST CONFIGURATION

### 2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 2.2 EUT Exercise

The EUT (Transmitter) was operated in the continuous transmission mode employed with the simulator of the Base Station that fixates at test default channels to fix the Tx frequency which was for the purpose of the measurements.

### 2.3 Test Procedure

#### 2.3.1 Conducted Measurement at Antenna Port

The EUT is placed on a table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

#### 2.3.2 Radiated Emissions (ERP/EIRP)

The EUT is placed on a turn table, for emission measurements below 1 GHz is 0.8 m above ground plane, for emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

### 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 attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

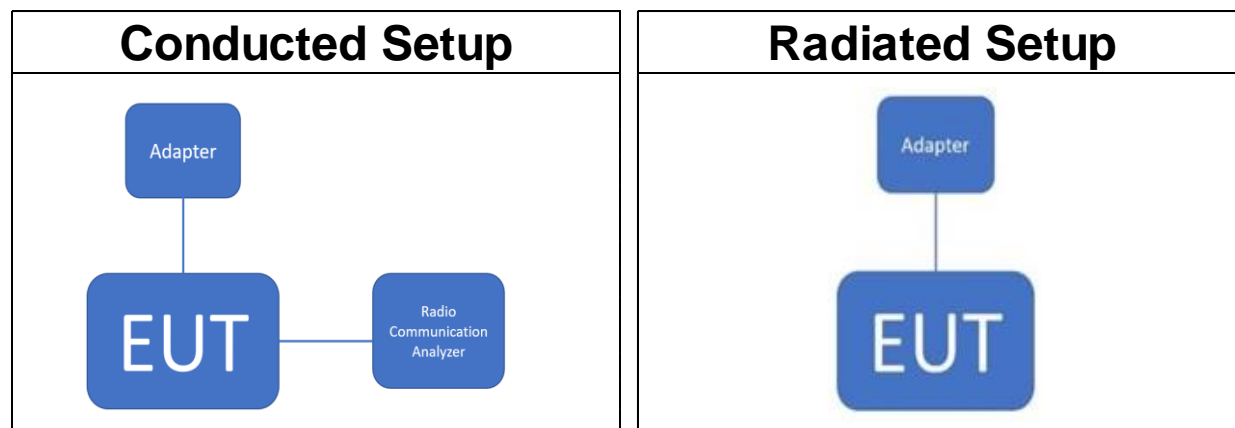
#### Note:

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

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### 3 TEST CONFIGURATION



**Note:** Radio Communication Analyzer is placed in remote side for radiated test.

#### 3.1 Control Unit(s)

Conducted Emission Test Site: Conducted E					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
AC Adapter	Castles	PW04-945A	N/A	N/A	N/A
Cable	HOMESHUN	N/A	N/A	N/A	N/A
Cable	TAI-CHING	CABLE FOR MARS1000 DC JACK	N/A	N/A	N/A

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
AC Adapter	Castles	PW04-945A	N/A	N/A	N/A
Cable	HOMESHUN	N/A	N/A	N/A	N/A
Cable	TAI-CHING	CABLE FOR MARS1000 DC JACK	N/A	N/A	N/A

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## 4 SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result
§2.1046(a)	RSS-GEN §6.12	RF Power Output	Compliant
§22.913(a)(5) §24.232(c) §27.50(d)(4)	RSS-132 §5.4 RSS-133 §5.5 RSS-139 §5.5	ERP/ EIRP measurement	Compliant
§2.1053 §22.917(a) §24.238(a) §27.53(h)	RSS-GEN §6.13 RSS-132 §5.5 RSS-133 §5.6 RSS-139 §5.6	Field Strength of Spurious Radiation	Compliant

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## 5 DESCRIPTION OF TEST MODES

### 5.1 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

### 5.2 Measurement Configuration

RADIATED EMISSION	GSM Bands	Test Channel		
		L	M	H
ERP	850	v	v	v
EIRP	1900	v	v	v

Test Items	CDMA / EVDO Bands	Test Channel		
		L	M	H
ERP	Cellular BC0	v	v	v
EIRP	PCS BC1	v	v	v

Test Items	WCDMA / HSPA Bands	Test Channel		
		L	M	H
EIRP	Band V	v	v	v
	Band II	v	v	v
	Band IV	v	v	v

UTRA Band	Test Channel	Modulation
GSM 850	128 、 190 、 251	QPSK
GSM 1900	512 、 661 、 810	QPSK
WCDMA 2	9262 、 9400 、 9538	QPSK
WCDMA 4	1312 、 1413 、 1513	QPSK
WCDMA 5	4132 、 4182 、 4233	QPSK

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## 6 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
Power Density	+/- 0.61 dB
RF Power Output	+/- 0.97 dB
ERP/ EIRP measurement	+/- 2.15 dB
	+/- 2.15 dB
Emission Bandwidth	+/- 1.38 Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 0.77 dB
Peak to Average Ratio	+/- 0.97 dB
Frequency Stability vs. Temperature	+/- 1.48 Hz
Frequency Stability vs. Voltage	+/- 1.48 Hz
Temperature	+/- 0.6 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	1.89 dB	9kHz~30MHz
	+/-	4.15 dB	30MHz - 1000MHz
	+/-	3.43 dB	1GHz - 18GHz
	+/-	3.86 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	1.89 dB	9kHz~30MHz
	+/-	4.02 dB	30MHz - 1000MHz
	+/-	3.43 dB	1GHz - 18GHz
	+/-	3.86 dB	18GHz - 40GHz
Radiated Spurious Emission	+/-	2 dB	33GHz-50GHz
	+/-	1.59 dB	50GHz-60GHz
	+/-	1.7 dB	60GHz-90GHz
	+/-	1.64 dB	90GHz-140GHz
	+/-	3.83 dB	140GHz-220GHz

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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## 7 MEASUREMENT EQUIPMENT USED

### 7.1 Conducted Measurement

Conducted Emission Test Site: Conducted E					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Coaxial Cables	Woken	00100A1F1A185C	RF71	11/15/2023	11/14/2024
Radio Communication Analyser	Anritsu	MT8820C	6201107337	07/18/2024	07/17/2025

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## 7.2 Radiated Measurement

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
3m Site NSA	SGS	966 chamber C	N/A	03/02/2024	03/01/2025
Band Rejection Filter	Micro Tronics	BRM50701-01	RF201	11/15/2023	11/14/2024
Band Rejection Filter	Titan Microwave	T04N63592050S01	23040703-3	11/15/2023	11/14/2024
Band Rejection Filter	Titan Microwave	T04N800100050S01	23040703-5	11/15/2023	11/14/2024
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-300	11/02/2023	11/01/2024
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-617	12/14/2023	12/13/2024
Coaxial Cable	Huber+Suhner	EMC106-SM-SM-9100	150704	11/15/2023	11/14/2024
Coaxial Cable	Huber+Suhner	RG 214/U	W22.03	11/15/2023	11/14/2024
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	MY17388/4	11/15/2023	11/14/2024
EMI Test Receiver	R&S	ESU 40	100363	04/30/2024	04/29/2025
High Pass Filter	WI	WHKX10-1800-2000	RF186	11/15/2023	11/14/2024
Highpass Filter	R&S	F13 HPF 3GHz	RF175	11/15/2023	11/14/2024
Highpass Filter	WI	WHKX1.1/15G	RF172	11/15/2023	11/14/2024
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/24/2024	01/23/2025
Horn Antenna	Schwarzbeck	BBHA9120D	1341	05/30/2024	05/29/2025
Horn Antenna	Schwarzbeck	BBHA9170	184	12/28/2023	12/27/2024
Horn Antenna	Schwarzbeck	BBHA9170	185	08/15/2024	08/14/2025
Lowpass Filter	Woken	EWI-56-0019	RF173	11/15/2023	11/14/2024
Pre-Amplifier	EMC Instruments	EMC118A45SE	980789	11/15/2023	11/14/2024
Pre-Amplifier	EMC Instruments	EMC18405SEE	980881	11/15/2023	11/14/2024
Pre-Amplifier	EMC Instruments	EMC330	980096	11/15/2023	11/14/2024
Radio Communication Analyser	Anritsu	MT8820C	6201107337	07/18/2024	07/17/2025
Radio Communication Analyser	Anritsu	MT8821C	6262044739	11/30/2023	11/29/2024
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	04/10/2024	04/09/2025
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R

**NOTE:** N.C.R refers to Not Calibrated Required.

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## 8 MAXIMUM OUTPUT POWER

### 8.1 Standard Applicable

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals.

According to FCC §2.1046

#### FCC 22.913(a)

(5) mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

#### FCC 24.232(c)

Mobile and portable stations are limited to 2 W EIRP.

#### FCC 27.50(d)

(4) Mobile, and portable (hand-held) stations operating in the 1710-1755 MHz, 1695-1710 MHz and 1755-1780 MHz bands are limited to 1W EIRP.

### RSS-132 §5.4

The transmitter output power shall be measured in terms of average power. The equivalent radiated power (e.r.p.) shall not exceed 7 watts for mobile equipment and 3 watts for portable equipment.

The effective isotropic radiated power (e.i.r.p.) shall not exceed the limits specified in SRSP-503 for base station equipment.

### RSS-133 §5.5

The maximum power spectral density of the equipment, measured in terms of average values, shall comply with the limits specified in table 2. These limits are either specified in terms of equivalent isotropically radiated power (e.i.r.p.) or TRP for the purpose of certification and may not apply to all deployment scenarios. Consult SRSP-510 for more deployment details in the bands 1850-1915 MHz and 1930-1995 MHz. AAS equipment with eight antenna elements or less can demonstrate compliance with the e.i.r.p limit specified for non-AAS equipment in table 2, instead of the TRP limit.

**Table 2: Maximum power spectral density of equipment**

Equipment type	Maximum power spectral density
Non-AAS fixed station and base station	3280 W/MHz e.i.r.p
AAS fixed station and base station	46 dBm/MHz TRP
Subscriber equipment	2 W /channel bandwidth e.i.r.p

### RSS-139 §5.5

The maximum output power of the equipment shall comply with the limits specified below. In the tables, maximum power refers to the equivalent isotropically radiated power

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(e.i.r.p.) or total radiated power (TRP), measured in terms of average values.

The limits in this RSS are specified for the purpose of certification and may not apply to all deployment scenarios. Consult SRSP-513 and SRSP-519 for more details on the bands 2110-2180 MHz and 2180-2200 MHz respectively.

**Table 3: Maximum power of equipment in the band 1710-1780 MHz**

Equipment type	Maximum power
Fixed station and base station	30 dBm e.i.r.p./channel bandwidth
Subscriber equipment	30 dBm e.i.r.p./channel bandwidth

**Table 4: Maximum power of equipment in the band 2110-2180 MHz**

Equipment type	Maximum power
Non-AAS fixed station and base station	65 dBm e.i.r.p./MHz
AAS fixed station and base station	46 dBm TRP/MHz
Subscriber equipment	30 dBm e.i.r.p./channel bandwidth

**Table 5: Maximum power of equipment in the band 2180-2200 MHz**

Equipment type	Maximum power
Non-AAS base station	65 dBm e.i.r.p./MHz
AAS base station	46 dBm TRP/MHz

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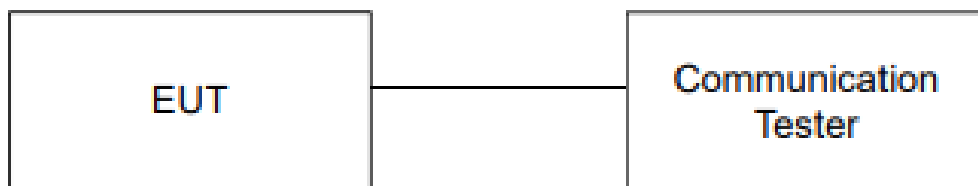
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## 8.2 Test Set-up



**Note:** Measurement setup for testing on Antenna connector

## 8.3 Output Power Measurement Applicable Guidance

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a communication tester.

Transmitter output was read off the communication tester in dBm.

The power output at the transmitter antenna port was determined by adding the value of the attenuator to the communication tester reading.

TS 151 010-1 is reference to conduct the test measurement of output power.

The Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, (WCDMA/HSPA) was used for EUT and RMC 12.2kps is used for Base station setting.

KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology to adjust the proper setting obtaining the measurement results.

Conducted average power is obtained from the simulator telecommunication test set.

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#### 8.4 Determining ERP and/or EIRP from conducted RF output power measurements

According to KDB 412172 D01 Power Approach,

$$EIRP = P_T + G_T - L_C,$$

$$ERP = EIRP - 2.15,$$

Where:

- ERP or EIRP = effective radiated power or equivalent isotropically radiated power (expressed in the same units as  $P_T$ , typically dBW, dBm, or power spectral density (PSD)<sup>2</sup>), relative to either a dipole antenna (ERP) or an isotropic antenna (EIRP);
- $P_T$  = transmitter output power, expressed in dBW, dBm, or PSD;
- $G_T$  = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);
- $L_C$  = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

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## 8.5 Measurement Results

### 8.5.1 GSM

GPRS Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
GPRS 850	824.2	128	32.05	4.75	34.65	36.80	38.50	-1.70
	836.6	190	31.74	4.75	34.34	36.49	38.50	-2.01
	848.8	251	31.87	4.75	34.47	36.62	38.50	-1.88
GPRS 1900	1850.2	512	29.84	2.40	30.09	32.24	33.00	-0.76
	1880.0	661	29.81	2.40	30.06	32.21	33.00	-0.79
	1909.8	810	29.83	2.40	30.08	32.23	33.00	-0.77

### 8.5.2 WCDMA & HSPA Measurement Results:

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 specification. The EUT supports power Class 3, which has a nominal maximum output power of 24 dBm. RMC 12.2kps is used for this testing.

WCDMA/HSUPA/HSDPA Band II Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	1852.4	<b>9262</b>	23.05	2.40	23.30	25.45	33.00	-7.55
	1880.0	<b>9400</b>	23.19	2.40	23.44	<b>25.59</b>	33.00	-7.41
	1907.6	<b>9538</b>	23.09	2.40	23.34	25.49	33.00	-7.51
HSDPA	1852.4	<b>9262</b>	20.38	2.40	20.63	<b>22.78</b>	33.00	-10.22
	1880.0	<b>9400</b>	20.36	2.40	20.61	22.76	33.00	-10.24
	1907.6	<b>9538</b>	20.36	2.40	20.61	22.76	33.00	-10.24
HSUPA	1852.4	<b>9262</b>	20.83	2.40	21.08	23.23	33.00	-9.77
	1880.0	<b>9400</b>	21.05	2.40	21.30	23.45	33.00	-9.55
	1907.6	<b>9538</b>	21.06	2.40	21.31	<b>23.46</b>	33.00	-9.54

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## WCDMA/HSUPA/HSDPA Band IV Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	1712.4	1312	23.02	2.40	23.27	25.42	30.00	-4.58
	1732.6	1413	23.04	2.40	23.29	25.44	30.00	-4.56
	1752.6	1513	23.13	2.40	23.38	<b>25.53</b>	30.00	-4.47
HSDPA	1712.4	1312	20.18	2.40	20.43	22.58	30.00	-7.42
	1732.6	1413	20.31	2.40	20.56	<b>22.71</b>	30.00	-7.29
	1752.6	1513	20.23	2.40	20.48	22.63	30.00	-7.37
HSUPA	1712.4	1312	20.72	2.40	20.97	23.12	30.00	-6.88
	1732.6	1413	20.87	2.40	21.12	23.27	30.00	-6.73
	1752.6	1513	20.89	2.40	21.14	<b>23.29</b>	30.00	-6.71

## WCDMA/HSUPA/HSDPA Band V Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	826.4	4132	23.68	4.75	26.28	<b>28.43</b>	38.50	-10.07
	836.6	4183	22.49	4.75	25.09	27.24	38.50	-11.26
	846.6	4233	22.57	4.75	25.17	27.32	38.50	-11.18
HSDPA	826.4	4132	21.21	4.75	23.81	<b>25.96</b>	38.50	-12.54
	836.6	4183	20.96	4.75	23.56	25.71	38.50	-12.79
	846.6	4233	21.09	4.75	23.69	25.84	38.50	-12.66
HSUPA	826.4	4132	21.70	4.75	24.30	<b>26.45</b>	38.50	-12.05
	836.6	4183	21.45	4.75	24.05	26.20	38.50	-12.30
	846.6	4233	21.67	4.75	24.27	26.42	38.50	-12.08

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## 9 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

### 9.1 Standard Applicable

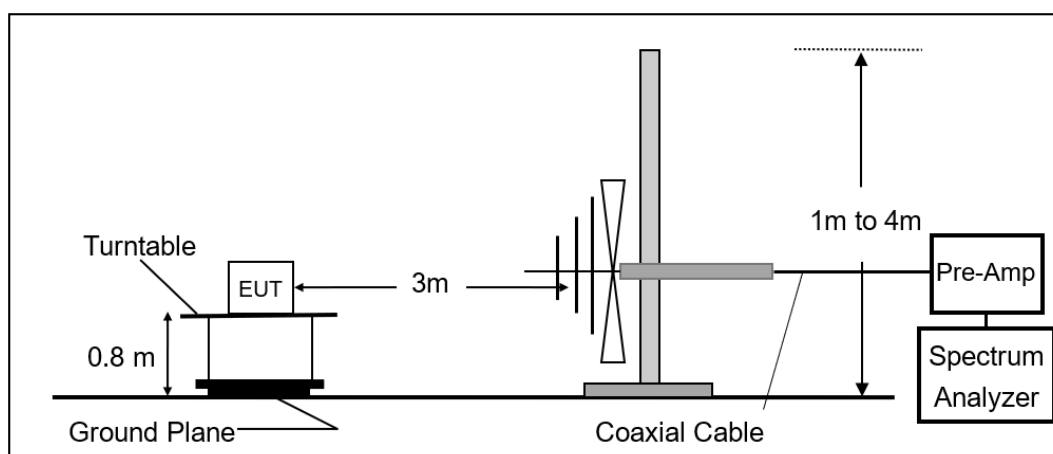
According to FCC §2.1053,

**FCC §22.917(a), §24.238(a), §27.53(h) and RSS-132 §5.5, RSS-133 §5.6, RSS-139 §5.6**

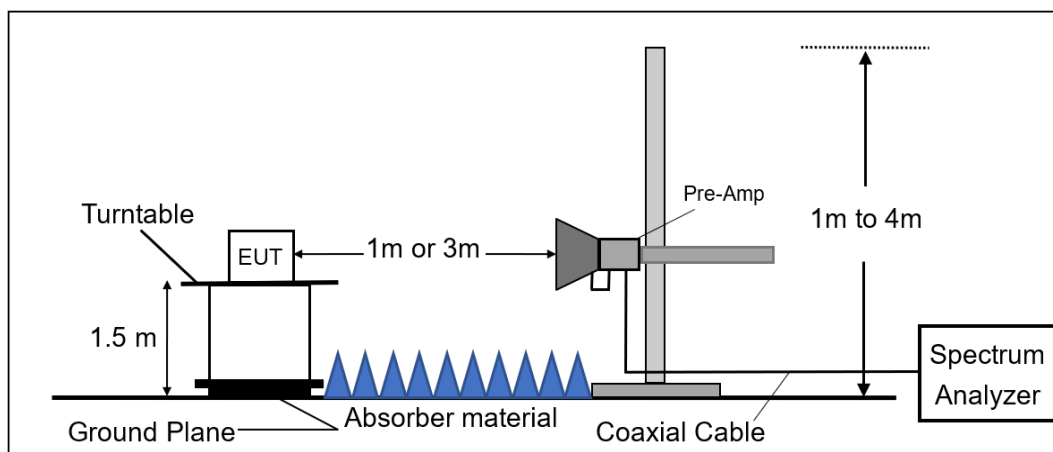
Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

### 9.2 EUT Setup

Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



Radiated Emission Test Set-Up, Frequency Above 1GHz.



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### 9.3 Measurement Procedure:

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

$$\text{ERP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

$$\text{EIRP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBi)} + \text{Cable Loss(dB)}$$

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#### 9.4 Measurement Result:

Report Number :TERF2408002263E2

Test Site :SAC C

Operation Mode :GSM 850

Test Date :2024-08-26

Test Mode :Tx

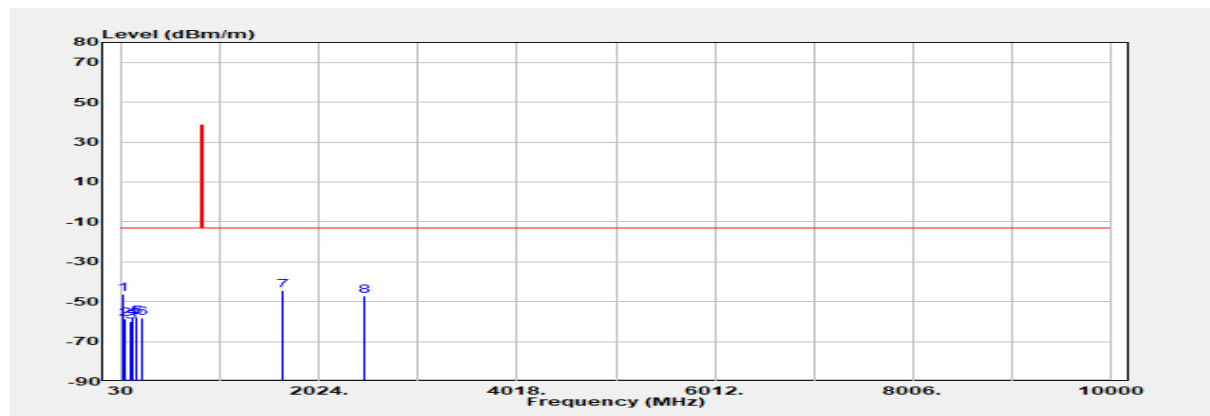
Temp./Humi. :21.5°C/56%

EUT Pol :E2 Plane

Antenna Pol. :Vertical

Test Frequency :824.2 MHz

Engineer :Howard Huang



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
35.820	-46.04	-32.23	-13.07	-0.74	-13.00	-33.04
67.830	-58.59	-50.56	-6.99	-1.04	-13.00	-45.59
110.510	-59.97	-57.39	-1.25	-1.33	-13.00	-46.97
141.550	-58.19	-54.83	-1.86	-1.50	-13.00	-45.19
183.260	-57.79	-57.83	1.77	-1.73	-13.00	-44.79
235.640	-58.32	-60.62	4.26	-1.96	-13.00	-45.32
1648.400	-44.22	-48.67	9.50	-5.05	-13.00	-31.22
2472.600	-46.97	-51.23	10.50	-6.24	-13.00	-33.97

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Report Number :TERF2408002263E2

Test Site :SAC C

Operation Mode :GSM 850

Test Date :2024-08-26

Test Mode :Tx

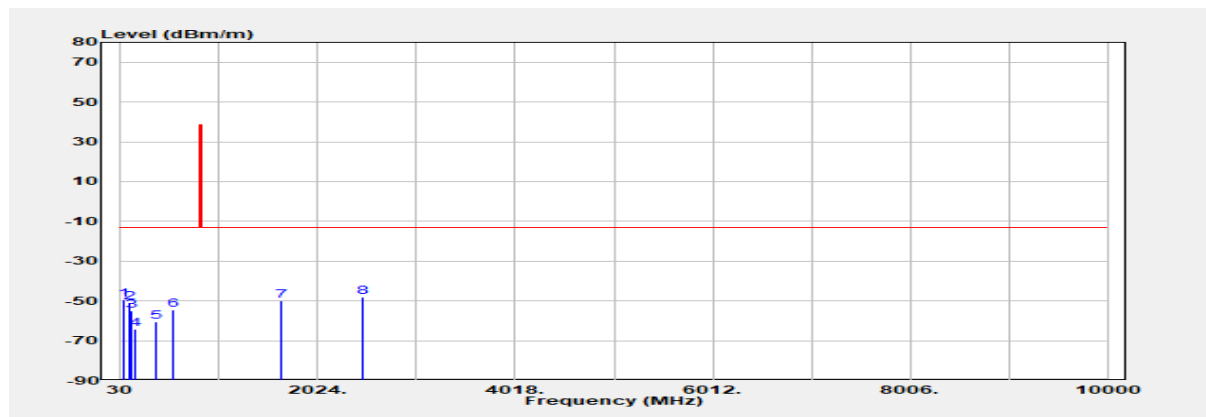
Temp./Humi. :21.5°C/56%

EUT Pol :E2 Plane

Antenna Pol. :Horizontal

Test Frequency :824.2 MHz

Engineer :Howard Huang



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
67.830	-49.24	-41.21	-6.99	-1.04	-13.00	-36.24
119.240	-50.77	-48.13	-1.24	-1.40	-13.00	-37.77
140.580	-54.97	-51.70	-1.78	-1.49	-13.00	-41.97
180.350	-64.18	-63.74	1.27	-1.71	-13.00	-51.18
393.750	-60.30	-61.91	4.11	-2.50	-13.00	-47.30
556.710	-54.36	-55.66	4.26	-2.96	-13.00	-41.36
1648.400	-49.77	-54.22	9.50	-5.05	-13.00	-36.77
2472.600	-47.97	-52.23	10.50	-6.24	-13.00	-34.97

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Report Number :TERF2408002263E2

Operation Mode :GSM 850

Test Mode :Tx

EUT Pol :E2 Plane

Test Frequency :836.6 MHz

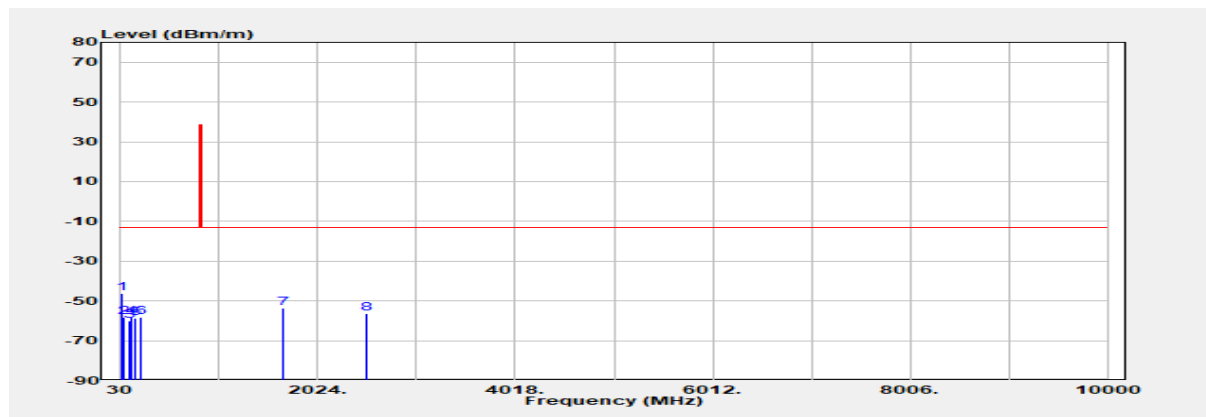
Test Site :SAC C

Test Date :2024-08-26

Temp./Humi. :21.5°C/56%

Antenna Pol. :Vertical

Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
35.820	-46.32	-32.51	-13.07	-0.74	-13.00	-33.32
67.830	-58.11	-50.08	-6.99	-1.04	-13.00	-45.11
110.510	-60.01	-57.43	-1.25	-1.33	-13.00	-47.01
139.610	-58.08	-54.83	-1.76	-1.49	-13.00	-45.08
181.320	-58.48	-58.24	1.48	-1.72	-13.00	-45.48
236.610	-58.17	-60.41	4.20	-1.96	-13.00	-45.17
1673.200	-53.49	-58.25	9.83	-5.07	-13.00	-40.49
2509.800	-56.43	-60.75	10.60	-6.28	-13.00	-43.43

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Report Number :TERF2408002263E2

Operation Mode :GSM 850

Test Mode :Tx

EUT Pol :E2 Plane

Test Frequency :836.6 MHz

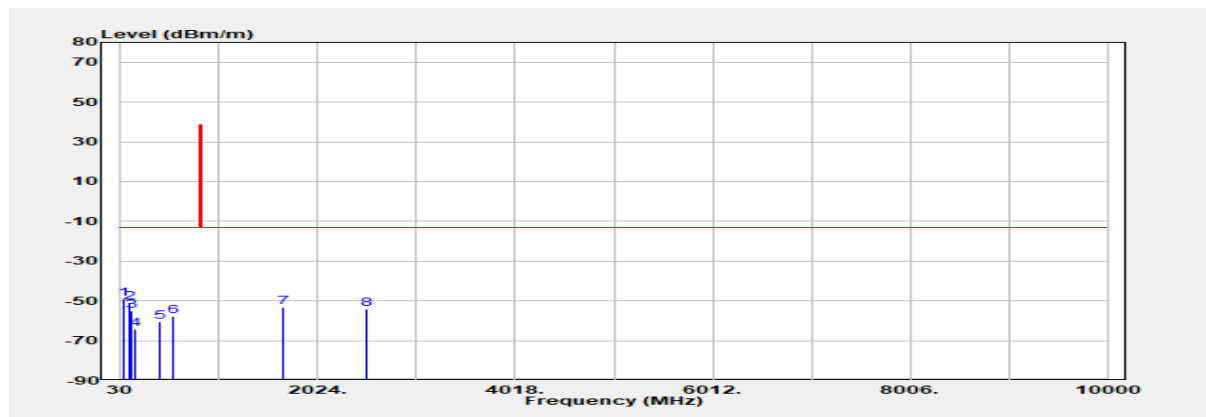
Test Site :SAC C

Test Date :2024-08-26

Temp./Humi. :21.5°C/56%

Antenna Pol. :Horizontal

Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
68.800	-49.10	-41.42	-6.63	-1.05	-13.00	-36.10
118.270	-50.78	-48.20	-1.19	-1.39	-13.00	-37.78
141.550	-54.97	-51.61	-1.86	-1.50	-13.00	-41.97
178.410	-63.99	-63.27	0.97	-1.69	-13.00	-50.99
418.000	-60.57	-61.97	3.98	-2.58	-13.00	-47.57
556.710	-57.69	-58.99	4.26	-2.96	-13.00	-44.69
1673.200	-53.34	-58.10	9.83	-5.07	-13.00	-40.34
2509.800	-54.00	-58.32	10.60	-6.28	-13.00	-41.00

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Report Number :TERF2408002263E2

Test Site :SAC C

Operation Mode :GSM 850

Test Date :2024-08-26

Test Mode :Tx

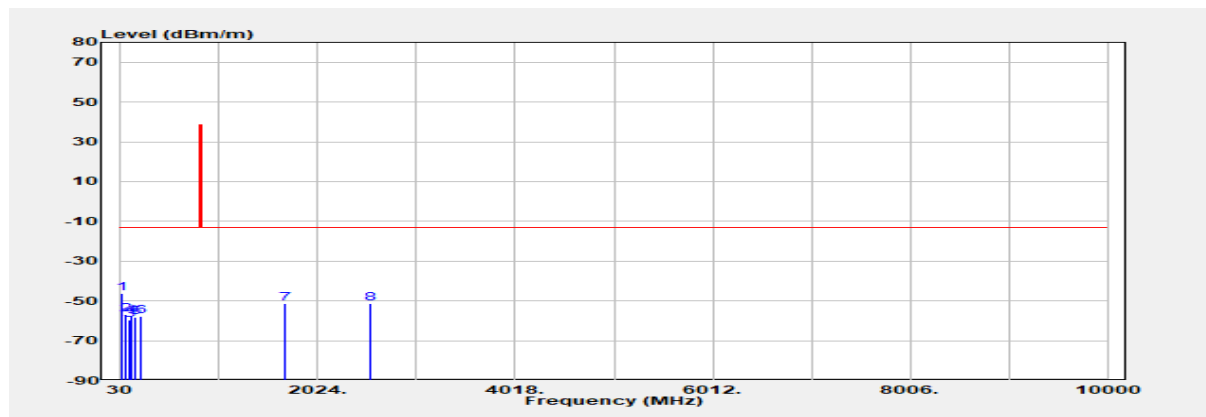
Temp./Humi. :21.5°C/56%

EUT Pol :E2 Plane

Antenna Pol. :Vertical

Test Frequency :848.8 MHz

Engineer :Howard Huang



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
35.820	-46.45	-32.64	-13.07	-0.74	-13.00	-33.45
80.440	-56.66	-52.90	-2.63	-1.13	-13.00	-43.66
110.510	-59.75	-57.17	-1.25	-1.33	-13.00	-46.75
140.580	-57.91	-54.64	-1.78	-1.49	-13.00	-44.91
183.260	-58.42	-58.46	1.77	-1.73	-13.00	-45.42
235.640	-57.75	-60.05	4.26	-1.96	-13.00	-44.75
1697.600	-51.34	-56.22	9.98	-5.10	-13.00	-38.34
2546.400	-51.23	-55.54	10.66	-6.35	-13.00	-38.23

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Report Number :TERF2408002263E2

Operation Mode :GSM 850

Test Mode :Tx

EUT Pol :E2 Plane

Test Frequency :848.8 MHz

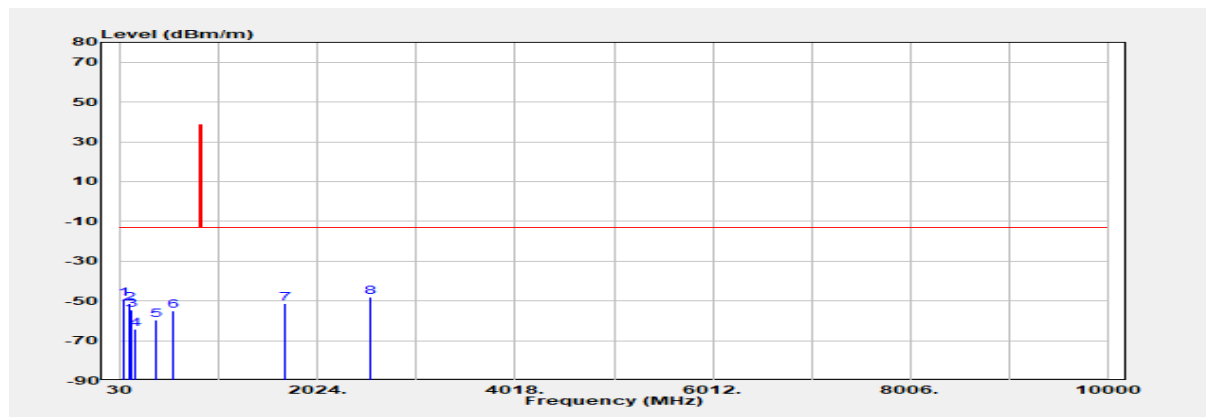
Test Site :SAC C

Test Date :2024-08-26

Temp./Humi. :21.5°C/56%

Antenna Pol. :Horizontal

Engineer :Howard Huang



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
68.800	-49.21	-41.53	-6.63	-1.05	-13.00	-36.21
120.210	-51.38	-48.69	-1.28	-1.41	-13.00	-38.38
139.610	-54.73	-51.48	-1.76	-1.49	-13.00	-41.73
177.440	-64.01	-63.12	0.79	-1.68	-13.00	-51.01
393.750	-59.79	-61.40	4.11	-2.50	-13.00	-46.79
556.710	-54.86	-56.16	4.26	-2.96	-13.00	-41.86
1697.600	-51.50	-56.38	9.98	-5.10	-13.00	-38.50
2546.400	-48.29	-52.60	10.66	-6.35	-13.00	-35.29

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Report Number :TERF2408002263E2

Test Site :SAC C

Operation Mode :GSM 1900

Test Date :2024-08-26

Test Mode :Tx

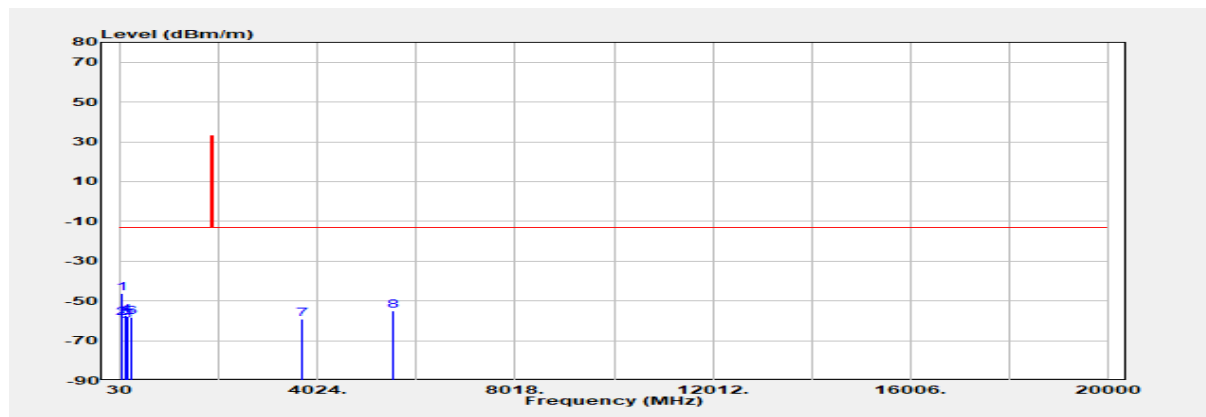
Temp./Humi. :21.5°C/56%

EUT Pol :E2 Plane

Antenna Pol. :Vertical

Test Frequency :1850.2 MHz

Engineer :Howard Huang



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
35.820	-46.10	-32.29	-13.07	-0.74	-13.00	-33.10
66.860	-58.86	-50.71	-7.12	-1.03	-13.00	-45.86
121.180	-59.85	-57.34	-1.10	-1.41	-13.00	-46.85
140.580	-57.24	-53.97	-1.78	-1.49	-13.00	-44.24
183.260	-58.16	-58.20	1.77	-1.73	-13.00	-45.16
236.610	-58.41	-60.65	4.20	-1.96	-13.00	-45.41
3700.400	-59.36	-64.34	12.60	-7.62	-13.00	-46.36
5550.600	-55.04	-58.77	13.20	-9.47	-13.00	-42.04

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Report Number :TERF2408002263E2

Test Site :SAC C

Operation Mode :GSM 1900

Test Date :2024-08-26

Test Mode :Tx

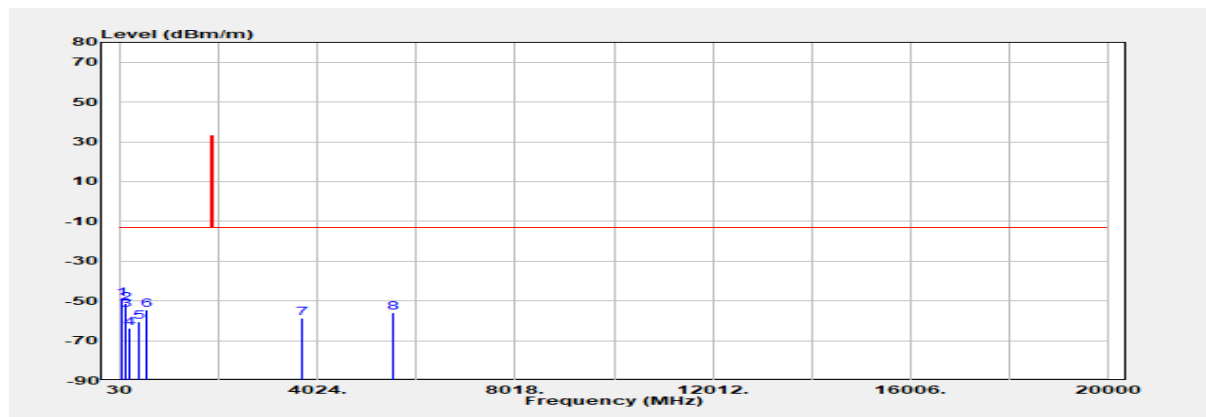
Temp./Humi. :21.5°C/56%

EUT Pol :E2 Plane

Antenna Pol. :Horizontal

Test Frequency :1850.2 MHz

Engineer :Howard Huang



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
67.830	-49.06	-41.03	-6.99	-1.04	-13.00	-36.06
119.240	-51.21	-48.57	-1.24	-1.40	-13.00	-38.21
140.580	-54.57	-51.30	-1.78	-1.49	-13.00	-41.57
199.750	-63.75	-65.97	4.01	-1.79	-13.00	-50.75
393.750	-60.70	-62.31	4.11	-2.50	-13.00	-47.70
556.710	-54.44	-55.74	4.26	-2.96	-13.00	-41.44
3700.400	-58.76	-63.74	12.60	-7.62	-13.00	-45.76
5550.600	-55.74	-59.47	13.20	-9.47	-13.00	-42.74

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Member of SGS Group

Report Number :TERF2408002263E2

Test Site :SAC C

Operation Mode :GSM 1900

Test Date :2024-08-26

Test Mode :Tx

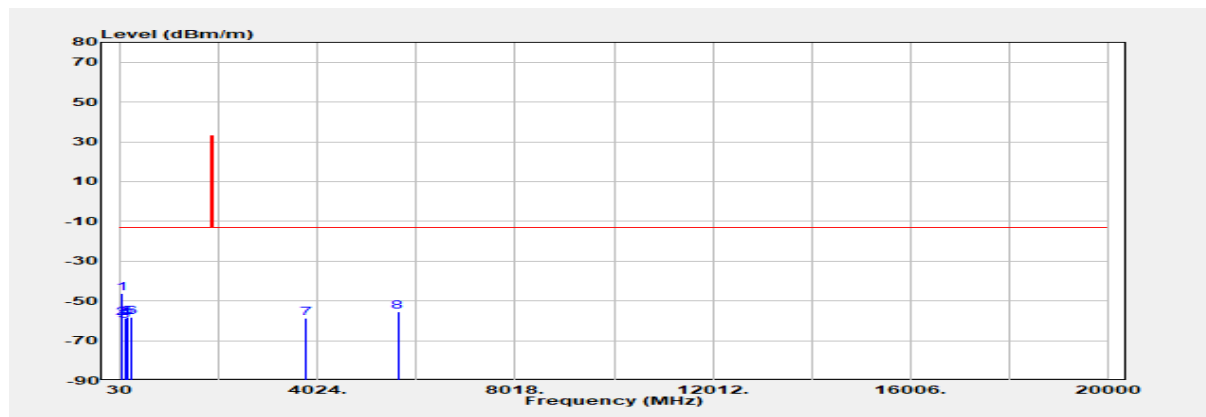
Temp./Humi. :21.5°C/56%

EUT Pol :E2 Plane

Antenna Pol. :Vertical

Test Frequency :1880 MHz

Engineer :Howard Huang



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
36.790	-46.42	-32.39	-13.28	-0.75	-13.00	-33.42
67.830	-58.57	-50.54	-6.99	-1.04	-13.00	-45.57
110.510	-59.86	-57.28	-1.25	-1.33	-13.00	-46.86
139.610	-58.57	-55.32	-1.76	-1.49	-13.00	-45.57
181.320	-58.42	-58.18	1.48	-1.72	-13.00	-45.42
234.670	-58.30	-60.68	4.34	-1.96	-13.00	-45.30
3760.000	-58.74	-63.48	12.46	-7.72	-13.00	-45.74
5640.000	-55.30	-59.25	13.48	-9.53	-13.00	-42.30

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Report Number :TERF2408002263E2

Test Site :SAC C

Operation Mode :GSM 1900

Test Date :2024-08-26

Test Mode :Tx

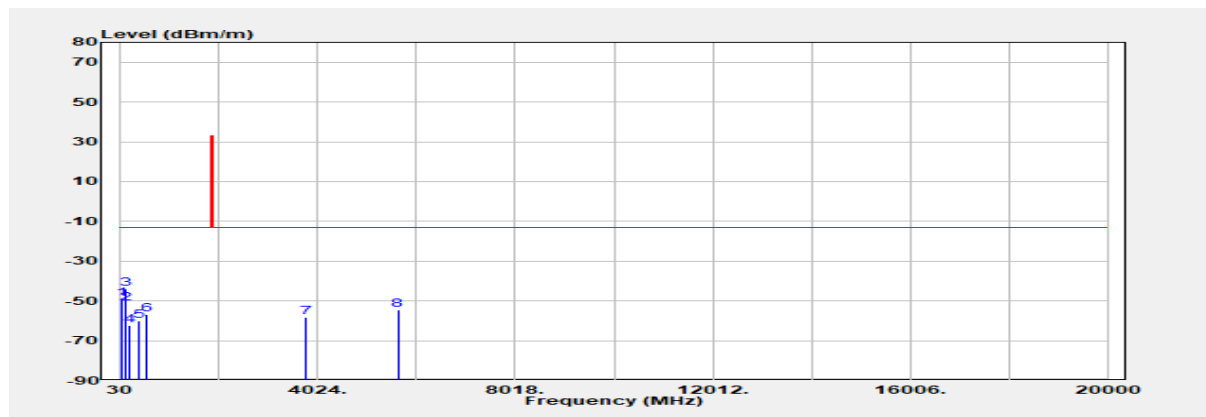
Temp./Humi. :21.5°C/56%

EUT Pol :E2 Plane

Antenna Pol. :Horizontal

Test Frequency :1880 MHz

Engineer :Howard Huang



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
68.800	-48.98	-41.30	-6.63	-1.05	-13.00	-35.98
119.240	-51.11	-48.47	-1.24	-1.40	-13.00	-38.11
143.490	-44.14	-40.64	-1.98	-1.52	-13.00	-31.14
194.900	-62.49	-64.31	3.58	-1.76	-13.00	-49.49
392.780	-60.26	-61.88	4.11	-2.49	-13.00	-47.26
556.710	-56.84	-58.14	4.26	-2.96	-13.00	-43.84
3760.000	-58.13	-62.87	12.46	-7.72	-13.00	-45.13
5640.000	-54.51	-58.46	13.48	-9.53	-13.00	-41.51

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Member of SGS Group

Report Number :TERF2408002263E2

Operation Mode :GSM 1900

Test Mode :Tx

EUT Pol :E2 Plane

Test Frequency :1907.6 MHz

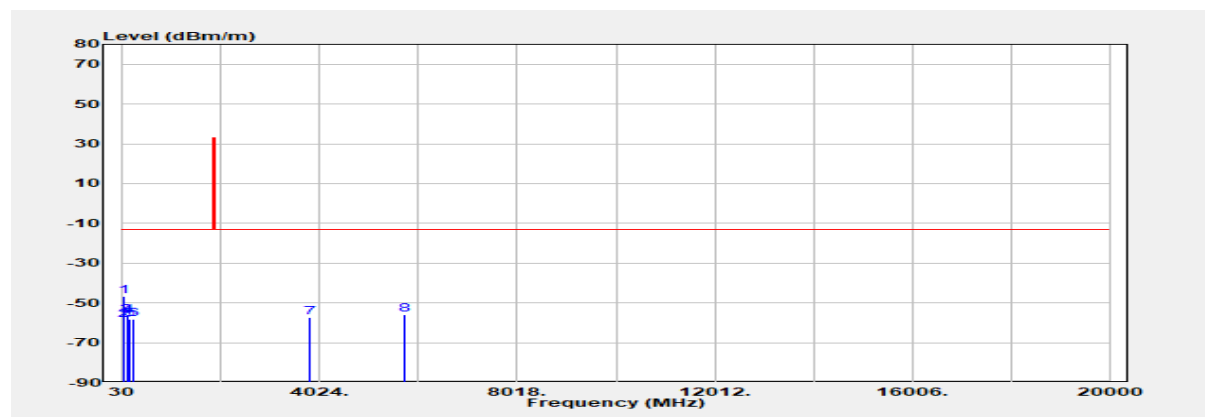
Test Site :SAC C

Test Date :2024-08-26

Temp./Humi. :21.5°C/56%

Antenna Pol. :Vertical

Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.790	-46.72	-32.69	-13.28	-0.75	-13.00	-33.72
68.800	-58.51	-50.83	-6.63	-1.05	-13.00	-45.51
111.480	-56.39	-53.73	-1.32	-1.34	-13.00	-43.39
139.610	-56.47	-53.22	-1.76	-1.49	-13.00	-43.47
181.320	-58.41	-58.17	1.48	-1.72	-13.00	-45.41
235.640	-58.17	-60.47	4.26	-1.96	-13.00	-45.17
3815.200	-57.23	-61.73	12.30	-7.80	-13.00	-44.23
5722.800	-55.82	-59.49	13.25	-9.58	-13.00	-42.82

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Report Number :TERF2408002263E2

Test Site :SAC C

Operation Mode :GSM 1900

Test Date :2024-08-26

Test Mode :Tx

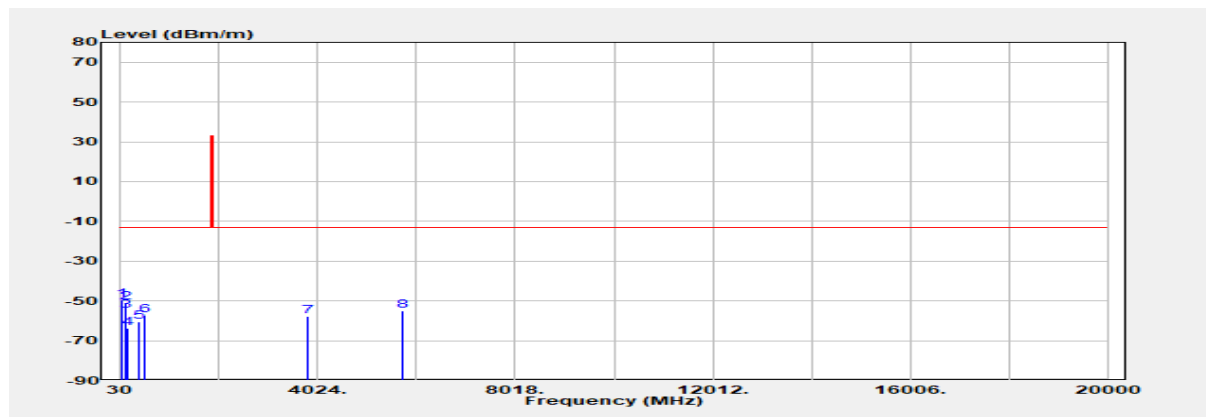
Temp./Humi. :21.5°C/56%

EUT Pol :E2 Plane

Antenna Pol. :Horizontal

Test Frequency :1907.6 MHz

Engineer :Howard Huang



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
68.800	-49.51	-41.83	-6.63	-1.05	-13.00	-36.51
120.210	-50.89	-48.20	-1.28	-1.41	-13.00	-37.89
140.580	-54.83	-51.56	-1.78	-1.49	-13.00	-41.83
177.440	-63.83	-62.94	0.79	-1.68	-13.00	-50.83
389.870	-60.48	-62.10	4.10	-2.48	-13.00	-47.48
518.880	-57.43	-58.64	4.08	-2.87	-13.00	-44.43
3815.200	-57.68	-62.18	12.30	-7.80	-13.00	-44.68
5722.800	-54.84	-58.51	13.25	-9.58	-13.00	-41.84

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Report Number :TERF2408002263E2

Test Site :SAC C

Operation Mode :WCDMA B2

Test Date :2024-08-26

Test Mode :Tx

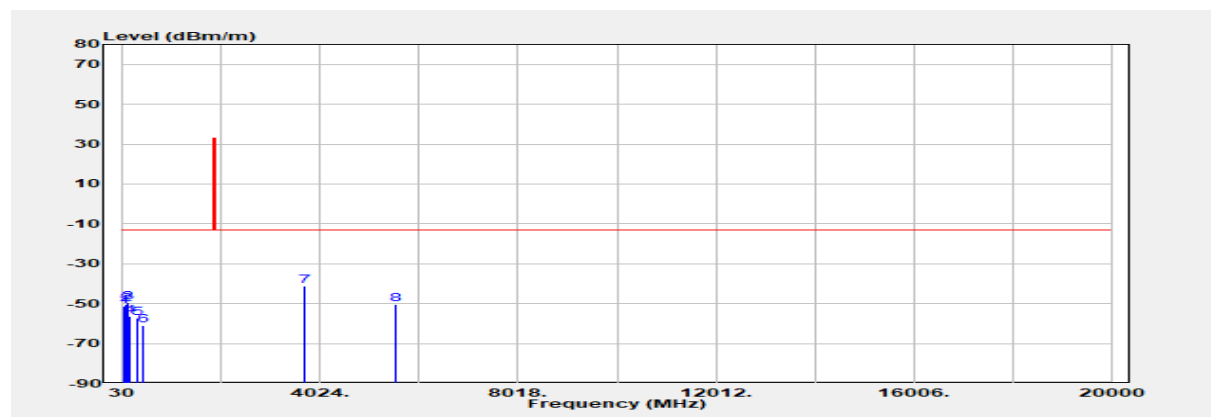
Temp./Humi. :21.4℃/56%

EUT Pol :E2 Plane

Antenna Pol. :Vertical

Test Frequency :1852.4 MHz

Engineer :Howard Huang



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
65.890	-51.22	-42.90	-7.29	-1.03	-13.00	-38.22
91.110	-50.16	-48.33	-0.63	-1.20	-13.00	-37.16
123.120	-49.37	-46.77	-1.19	-1.41	-13.00	-36.37
178.410	-56.16	-55.44	0.97	-1.69	-13.00	-43.16
340.400	-57.45	-59.37	4.22	-2.30	-13.00	-44.45
424.790	-60.75	-62.11	3.95	-2.59	-13.00	-47.75
3704.800	-41.17	-46.13	12.59	-7.63	-13.00	-28.17
5557.200	-50.17	-53.91	13.23	-9.49	-13.00	-37.17

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Report Number :TERF2408002263E2

Operation Mode :WCDMA B2

Test Mode :Tx

EUT Pol :E2 Plane

Test Frequency :1852.4 MHz

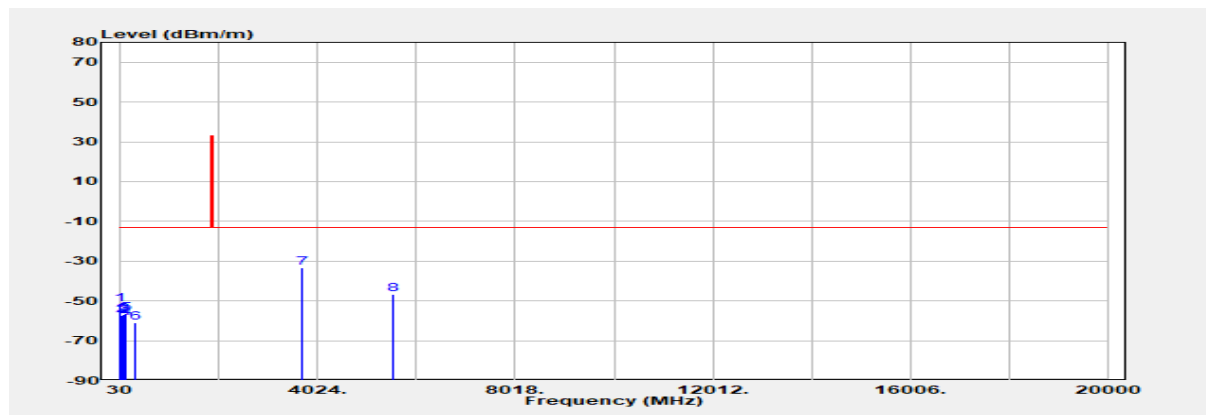
Test Site :SAC C

Test Date :2024-08-26

Temp./Humi. :21.4°C/56%

Antenna Pol. :Horizontal

Engineer :Howard Huang



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
31.940	-51.87	-37.25	-13.92	-0.70	-13.00	-38.87
66.860	-57.11	-48.96	-7.12	-1.03	-13.00	-44.11
91.110	-56.75	-54.92	-0.63	-1.20	-13.00	-43.75
122.150	-58.86	-56.17	-1.28	-1.41	-13.00	-45.86
142.520	-56.25	-52.85	-1.89	-1.51	-13.00	-43.25
335.550	-61.13	-62.92	4.09	-2.30	-13.00	-48.13
3704.800	-33.56	-38.52	12.59	-7.63	-13.00	-20.56
5557.200	-46.83	-50.57	13.23	-9.49	-13.00	-33.83

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Report Number :TERF2408002263E2

Operation Mode :WCDMA B2

Test Mode :Tx

EUT Pol :E2 Plane

Test Frequency :1880 MHz

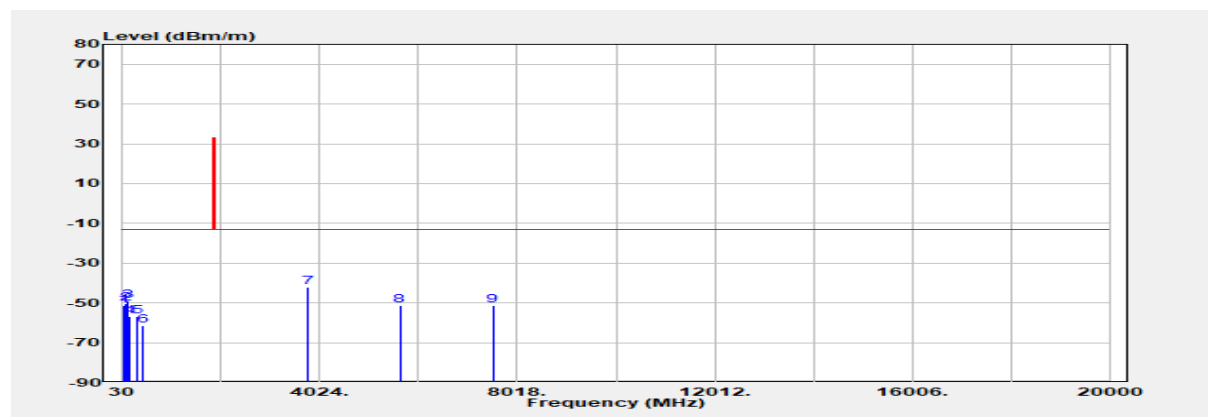
Test Site :SAC C

Test Date :2024-08-26

Temp./Humi. :21.4°C/56%

Antenna Pol. :Vertical

Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
65.890	-51.24	-42.92	-7.29	-1.03	-13.00	-38.24
91.110	-50.28	-48.45	-0.63	-1.20	-13.00	-37.28
124.090	-49.15	-46.76	-0.98	-1.41	-13.00	-36.15
180.350	-56.91	-56.47	1.27	-1.71	-13.00	-43.91
338.460	-57.04	-58.91	4.17	-2.30	-13.00	-44.04
424.790	-61.52	-62.88	3.95	-2.59	-13.00	-48.52
3760.000	-42.03	-46.77	12.46	-7.72	-13.00	-29.03
5640.000	-51.51	-55.46	13.48	-9.53	-13.00	-38.51
7520.000	-51.48	-51.51	11.14	-11.11	-13.00	-38.48

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Report Number :TERF2408002263E2

Test Site :SAC C

Operation Mode :WCDMA B2

Test Date :2024-08-26

Test Mode :Tx

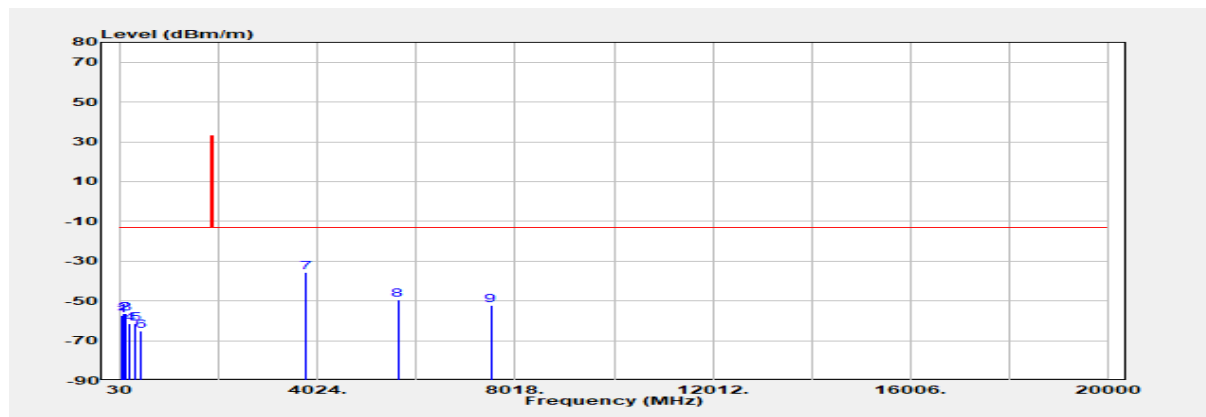
Temp./Humi. :21.4°C/56%

EUT Pol :E2 Plane

Antenna Pol. :Horizontal

Test Frequency :1880 MHz

Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
65.890	-57.36	-49.04	-7.29	-1.03	-13.00	-44.36
91.110	-56.58	-54.75	-0.63	-1.20	-13.00	-43.58
144.460	-56.49	-53.03	-1.93	-1.53	-13.00	-43.49
193.930	-61.42	-63.20	3.53	-1.75	-13.00	-48.42
333.610	-61.30	-63.05	4.04	-2.29	-13.00	-48.30
422.850	-65.28	-66.64	3.95	-2.59	-13.00	-52.28
3760.000	-35.77	-40.51	12.46	-7.72	-13.00	-22.77
5640.000	-49.49	-53.44	13.48	-9.53	-13.00	-36.49
7520.000	-52.15	-52.18	11.14	-11.11	-13.00	-39.15

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Report Number :TERF2408002263E2

Operation Mode :WCDMA B2

Test Mode :Tx

EUT Pol :E2 Plane

Test Frequency :1907.6 MHz

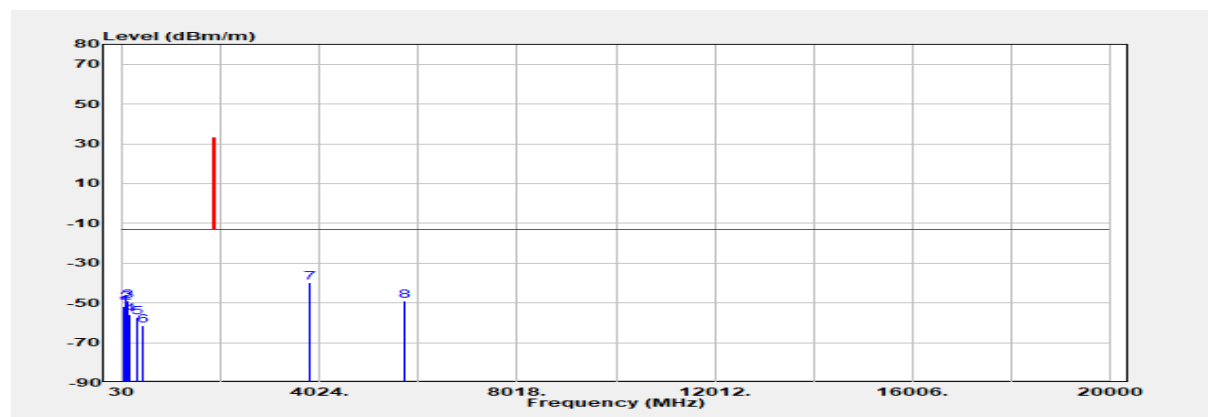
Test Site :SAC C

Test Date :2024-08-26

Temp./Humi. :21.4°C/56%

Antenna Pol. :Vertical

Engineer :Howard Huang



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
65.890	-51.59	-43.27	-7.29	-1.03	-13.00	-38.59
90.140	-50.11	-48.10	-0.81	-1.20	-13.00	-37.11
123.120	-49.18	-46.58	-1.19	-1.41	-13.00	-36.18
180.350	-56.01	-55.57	1.27	-1.71	-13.00	-43.01
338.460	-57.39	-59.26	4.17	-2.30	-13.00	-44.39
427.700	-61.56	-62.90	3.95	-2.61	-13.00	-48.56
3815.200	-39.60	-44.10	12.30	-7.80	-13.00	-26.60
5722.800	-48.89	-52.56	13.25	-9.58	-13.00	-35.89

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Member of SGS Group

Report Number :TERF2408002263E2

Test Site :SAC C

Operation Mode :WCDMA B2

Test Date :2024-08-26

Test Mode :Tx

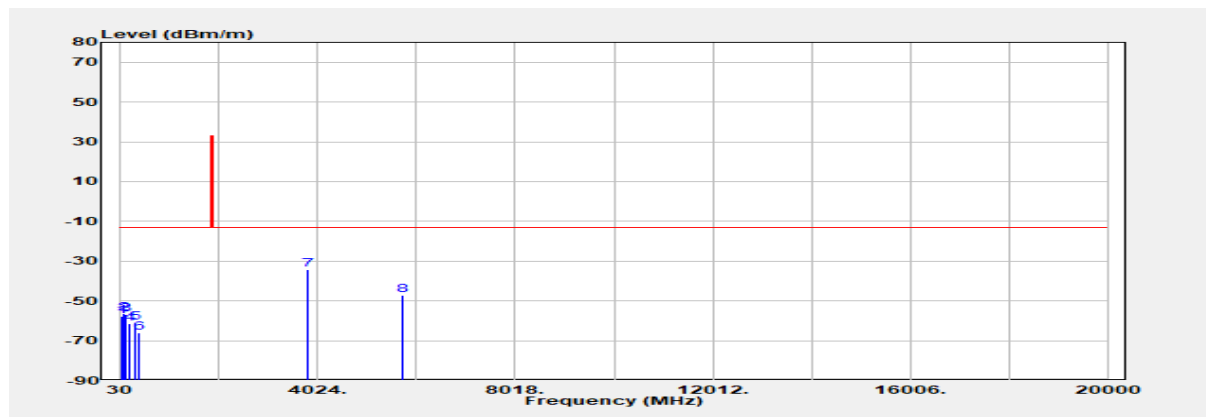
Temp./Humi. :21.4°C/56%

EUT Pol :E2 Plane

Antenna Pol. :Horizontal

Test Frequency :1907.6 MHz

Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
66.860	-57.88	-49.73	-7.12	-1.03	-13.00	-44.88
91.110	-56.50	-54.67	-0.63	-1.20	-13.00	-43.50
144.460	-56.90	-53.44	-1.93	-1.53	-13.00	-43.90
194.900	-61.45	-63.27	3.58	-1.76	-13.00	-48.45
335.550	-61.12	-62.91	4.09	-2.30	-13.00	-48.12
407.330	-66.25	-67.91	4.19	-2.53	-13.00	-53.25
3815.200	-34.20	-38.70	12.30	-7.80	-13.00	-21.20
5722.800	-47.33	-51.00	13.25	-9.58	-13.00	-34.33

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Report Number :TERF2408002263E2

Test Site :SAC C

Operation Mode :WCDMA B4

Test Date :2024-08-26

Test Mode :Tx

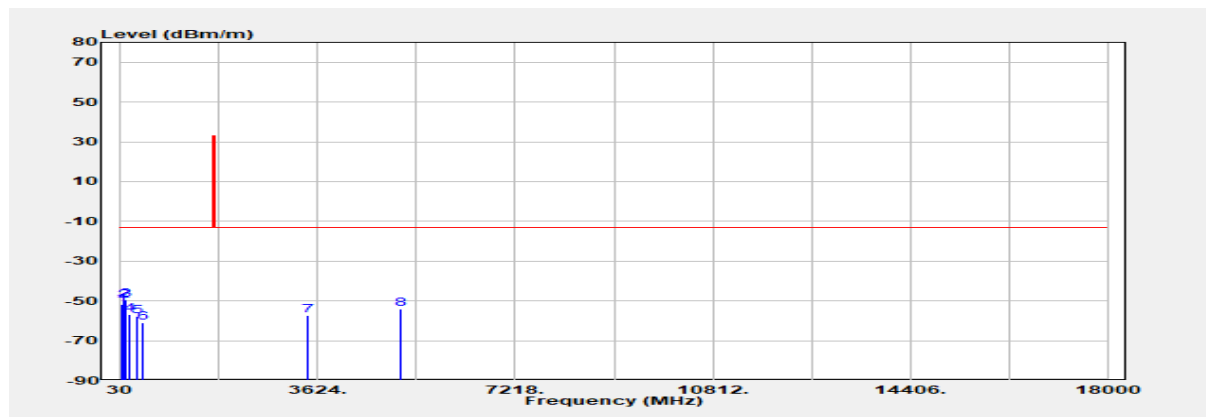
Temp./Humi. :21.4℃/56%

EUT Pol :E2 Plane

Antenna Pol. :Vertical

Test Frequency :1712.4 MHz

Engineer :Howard Huang



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
65.890	-51.66	-43.34	-7.29	-1.03	-13.00	-38.66
91.110	-50.01	-48.18	-0.63	-1.20	-13.00	-37.01
123.120	-49.24	-46.64	-1.19	-1.41	-13.00	-36.24
179.380	-56.77	-56.11	1.04	-1.70	-13.00	-43.77
339.430	-57.53	-59.43	4.20	-2.30	-13.00	-44.53
424.790	-61.01	-62.37	3.95	-2.59	-13.00	-48.01
3424.800	-57.52	-62.70	12.55	-7.37	-13.00	-44.52
5137.200	-54.22	-57.47	12.37	-9.12	-13.00	-41.22

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Report Number :TERF2408002263E2

Test Site :SAC C

Operation Mode :WCDMA B4

Test Date :2024-08-26

Test Mode :Tx

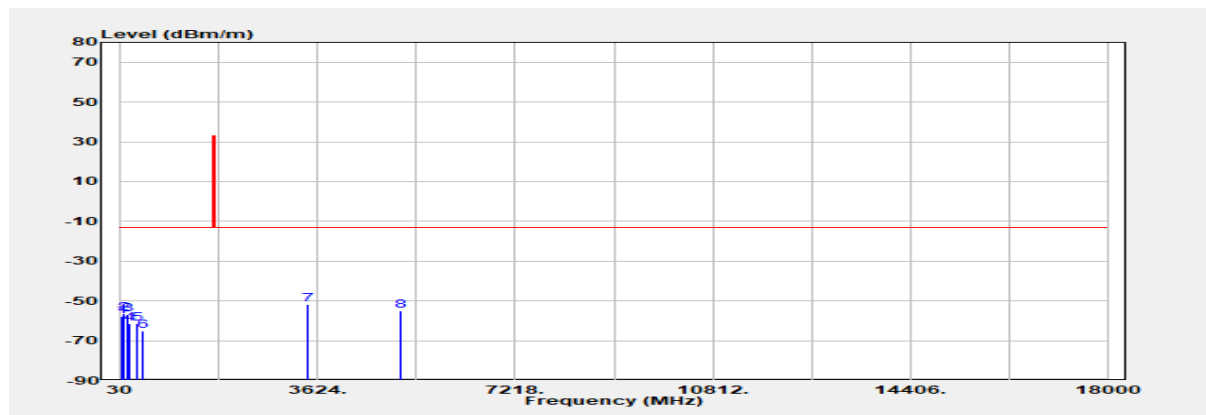
Temp./Humi. :21.4°C/56%

EUT Pol :E2 Plane

Antenna Pol. :Horizontal

Test Frequency :1712.4 MHz

Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
65.890	-57.55	-49.23	-7.29	-1.03	-13.00	-44.55
91.110	-56.58	-54.75	-0.63	-1.20	-13.00	-43.58
141.550	-56.73	-53.37	-1.86	-1.50	-13.00	-43.73
194.900	-61.27	-63.09	3.58	-1.76	-13.00	-48.27
336.520	-61.32	-63.14	4.12	-2.30	-13.00	-48.32
415.090	-65.33	-66.81	4.04	-2.56	-13.00	-52.33
3424.800	-51.88	-57.06	12.55	-7.37	-13.00	-38.88
5137.200	-54.79	-58.04	12.37	-9.12	-13.00	-41.79

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Report Number :TERF2408002263E2

Operation Mode :WCDMA B4

Test Mode :Tx

EUT Pol :E2 Plane

Test Frequency :1732.6 MHz

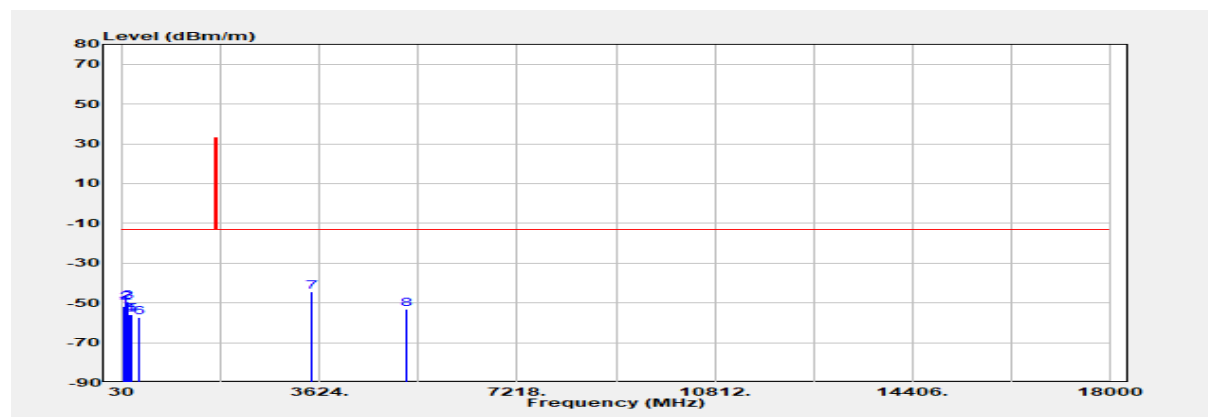
Test Site :SAC C

Test Date :2024-08-26

Temp./Humi. :21.4℃/56%

Antenna Pol. :Vertical

Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
65.890	-51.71	-43.39	-7.29	-1.03	-13.00	-38.71
91.110	-50.00	-48.17	-0.63	-1.20	-13.00	-37.00
123.120	-49.27	-46.67	-1.19	-1.41	-13.00	-36.27
143.490	-55.70	-52.20	-1.98	-1.52	-13.00	-42.70
180.350	-55.92	-55.48	1.27	-1.71	-13.00	-42.92
338.460	-57.31	-59.18	4.17	-2.30	-13.00	-44.31
3465.200	-44.40	-49.40	12.44	-7.44	-13.00	-31.40
5197.800	-53.33	-56.79	12.69	-9.23	-13.00	-40.33

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Report Number :TERF2408002263E2

Test Site :SAC C

Operation Mode :WCDMA B4

Test Date :2024-08-26

Test Mode :Tx

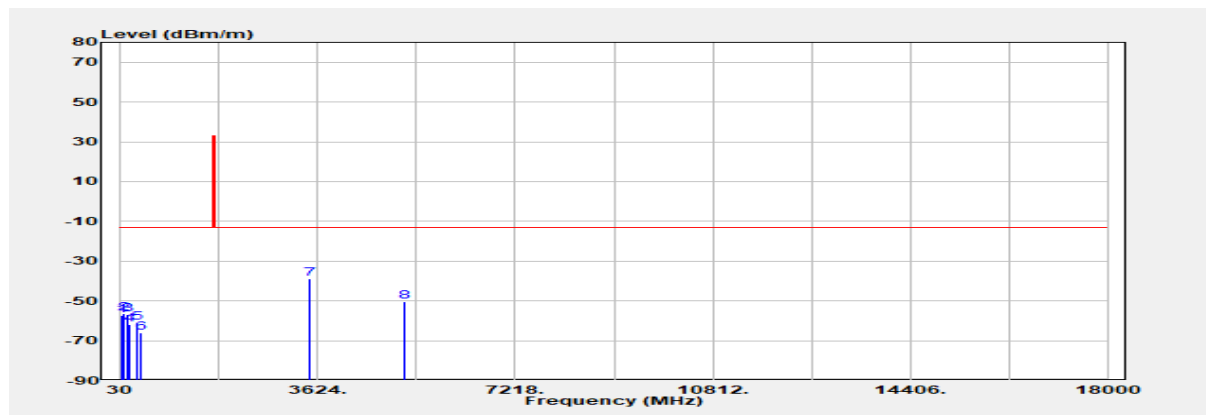
Temp./Humi. :21.4℃/56%

EUT Pol :E2 Plane

Antenna Pol. :Horizontal

Test Frequency :1732.6 MHz

Engineer :Howard Huang



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
65.890	-57.49	-49.17	-7.29	-1.03	-13.00	-44.49
91.110	-56.19	-54.36	-0.63	-1.20	-13.00	-43.19
143.490	-56.96	-53.46	-1.98	-1.52	-13.00	-43.96
196.840	-61.80	-63.88	3.85	-1.77	-13.00	-48.80
337.490	-60.90	-62.74	4.14	-2.30	-13.00	-47.90
411.210	-66.21	-67.79	4.12	-2.54	-13.00	-53.21
3465.200	-39.01	-44.01	12.44	-7.44	-13.00	-26.01
5197.800	-50.21	-53.67	12.69	-9.23	-13.00	-37.21

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Report Number :TERF2408002263E2

Operation Mode :WCDMA B4

Test Mode :Tx

EUT Pol :E2 Plane

Test Frequency :1752.6 MHz

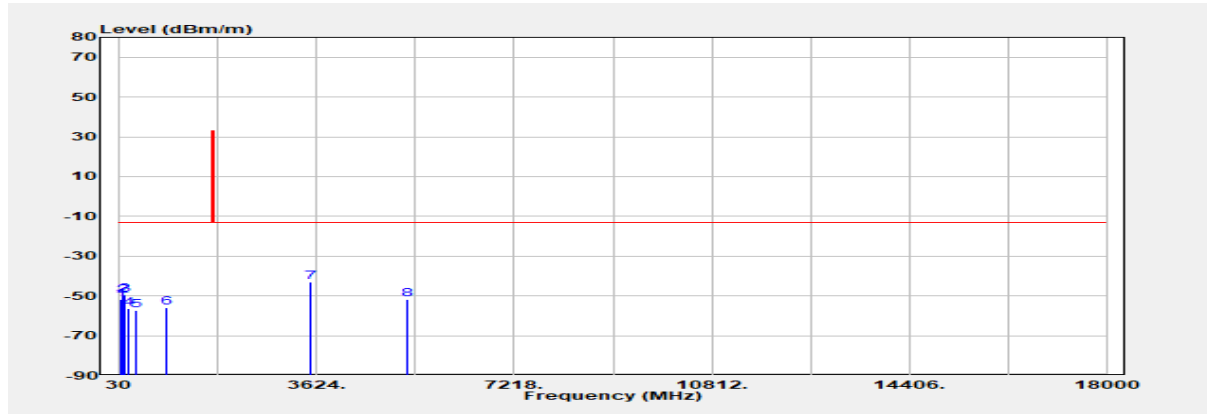
Test Site :SAC C

Test Date :2024-08-26

Temp./Humi. :21.4℃/56%

Antenna Pol. :Vertical

Engineer :Howard Huang



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
64.920	-51.56	-42.75	-7.79	-1.02	-13.00	-38.56
91.110	-49.95	-48.12	-0.63	-1.20	-13.00	-36.95
123.120	-49.45	-46.85	-1.19	-1.41	-13.00	-36.45
198.780	-56.41	-58.66	4.03	-1.78	-13.00	-43.41
339.430	-57.12	-59.02	4.20	-2.30	-13.00	-44.12
887.480	-55.87	-56.05	3.90	-3.72	-13.00	-42.87
3505.200	-42.81	-47.60	12.30	-7.51	-13.00	-29.81
5257.800	-51.92	-55.80	13.12	-9.24	-13.00	-38.92

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Report Number :TERF2408002263E2

Operation Mode :WCDMA B4

Test Mode :Tx

EUT Pol :E2 Plane

Test Frequency :1752.6 MHz

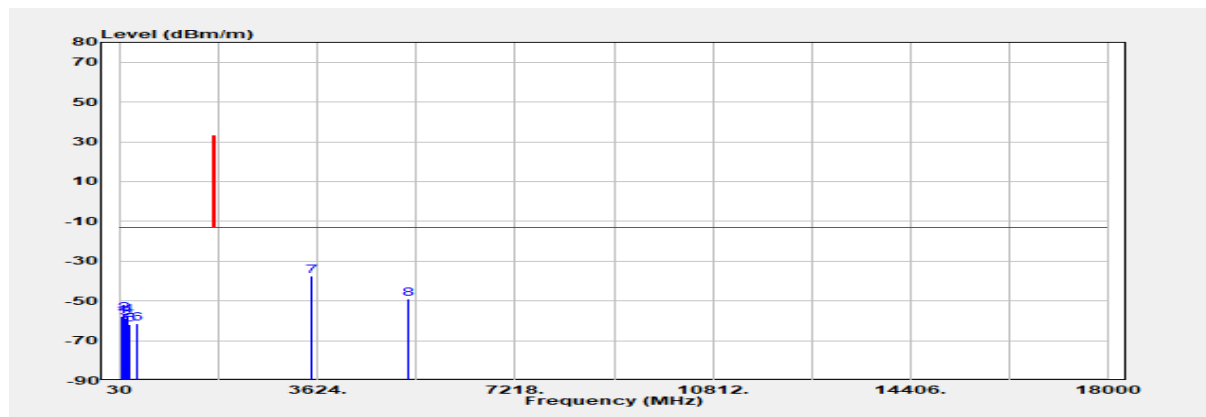
Test Site :SAC C

Test Date :2024-08-26

Temp./Humi. :21.4°C/56%

Antenna Pol. :Horizontal

Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
65.890	-57.66	-49.34	-7.29	-1.03	-13.00	-44.66
91.110	-56.36	-54.53	-0.63	-1.20	-13.00	-43.36
123.120	-58.83	-56.23	-1.19	-1.41	-13.00	-45.83
144.460	-57.23	-53.77	-1.93	-1.53	-13.00	-44.23
194.900	-61.91	-63.73	3.58	-1.76	-13.00	-48.91
336.520	-61.40	-63.22	4.12	-2.30	-13.00	-48.40
3505.200	-37.52	-42.31	12.30	-7.51	-13.00	-24.52
5257.800	-49.00	-52.88	13.12	-9.24	-13.00	-36.00

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Report Number :TERF2408002263E2

Test Site :SAC C

Operation Mode :WCDMA B5

Test Date :2024-08-26

Test Mode :Tx

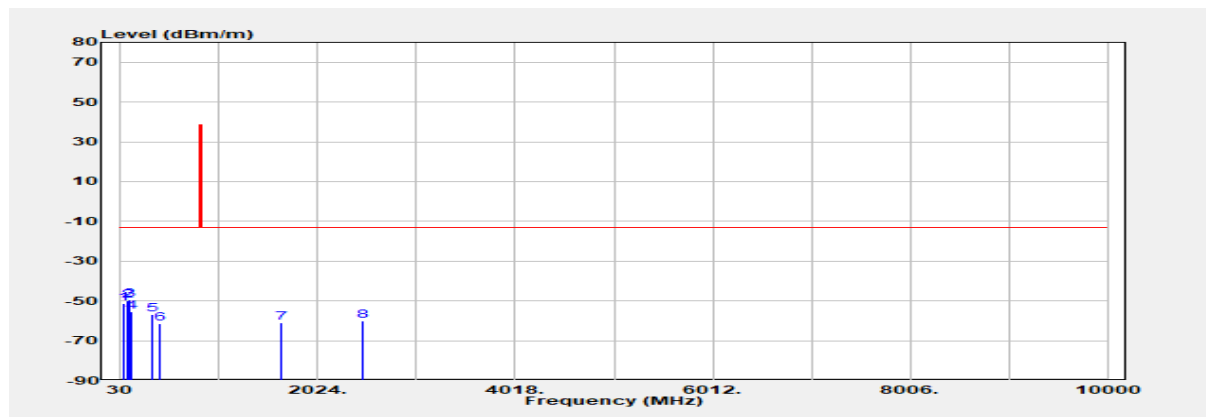
Temp./Humi. :21.4℃/56%

EUT Pol :E2 Plane

Antenna Pol. :Vertical

Test Frequency :826.4 MHz

Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
65.890	-51.42	-43.10	-7.29	-1.03	-13.00	-38.42
91.110	-49.89	-48.06	-0.63	-1.20	-13.00	-36.89
123.120	-49.29	-46.69	-1.19	-1.41	-13.00	-36.29
144.460	-55.42	-51.96	-1.93	-1.53	-13.00	-42.42
339.430	-56.95	-58.85	4.20	-2.30	-13.00	-43.95
424.790	-61.27	-62.63	3.95	-2.59	-13.00	-48.27
1652.800	-60.99	-65.47	9.53	-5.05	-13.00	-47.99
2479.200	-59.85	-64.11	10.50	-6.24	-13.00	-46.85

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Report Number :TERF2408002263E2

Test Site :SAC C

Operation Mode :WCDMA B5

Test Date :2024-08-26

Test Mode :Tx

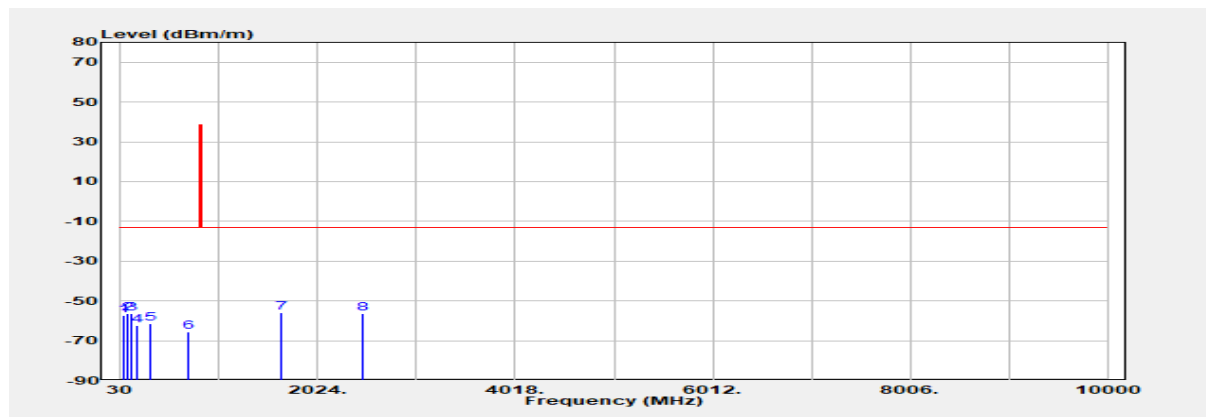
Temp./Humi. :21.4°C/56%

EUT Pol :E2 Plane

Antenna Pol. :Horizontal

Test Frequency :826.4 MHz

Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
65.890	-57.26	-48.94	-7.29	-1.03	-13.00	-44.26
91.110	-56.51	-54.68	-0.63	-1.20	-13.00	-43.51
143.490	-56.48	-52.98	-1.98	-1.52	-13.00	-43.48
196.840	-62.20	-64.28	3.85	-1.77	-13.00	-49.20
336.520	-61.25	-63.07	4.12	-2.30	-13.00	-48.25
704.150	-65.69	-66.20	3.83	-3.32	-13.00	-52.69
1652.800	-55.86	-60.34	9.53	-5.05	-13.00	-42.86
2479.200	-56.31	-60.57	10.50	-6.24	-13.00	-43.31

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Report Number :TERF2408002263E2

Test Site :SAC C

Operation Mode :WCDMA B5

Test Date :2024-08-26

Test Mode :Tx

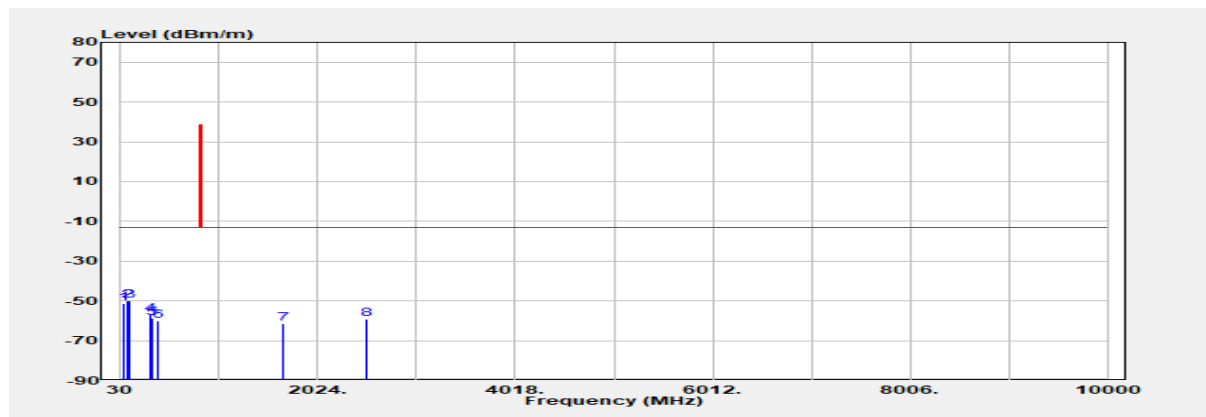
Temp./Humi. :21.4℃/56%

EUT Pol :E2 Plane

Antenna Pol. :Vertical

Test Frequency :836.4 MHz

Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
65.890	-51.37	-43.05	-7.29	-1.03	-13.00	-38.37
91.110	-50.03	-48.20	-0.63	-1.20	-13.00	-37.03
123.120	-49.69	-47.09	-1.19	-1.41	-13.00	-36.69
338.460	-56.60	-58.47	4.17	-2.30	-13.00	-43.60
355.920	-58.69	-60.83	4.50	-2.36	-13.00	-45.69
400.540	-60.08	-61.78	4.22	-2.52	-13.00	-47.08
1672.800	-61.27	-66.03	9.83	-5.07	-13.00	-48.27
2509.200	-58.96	-63.29	10.61	-6.28	-13.00	-45.96

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Report Number :TERF2408002263E2

Test Site :SAC C

Operation Mode :WCDMA B5

Test Date :2024-08-26

Test Mode :Tx

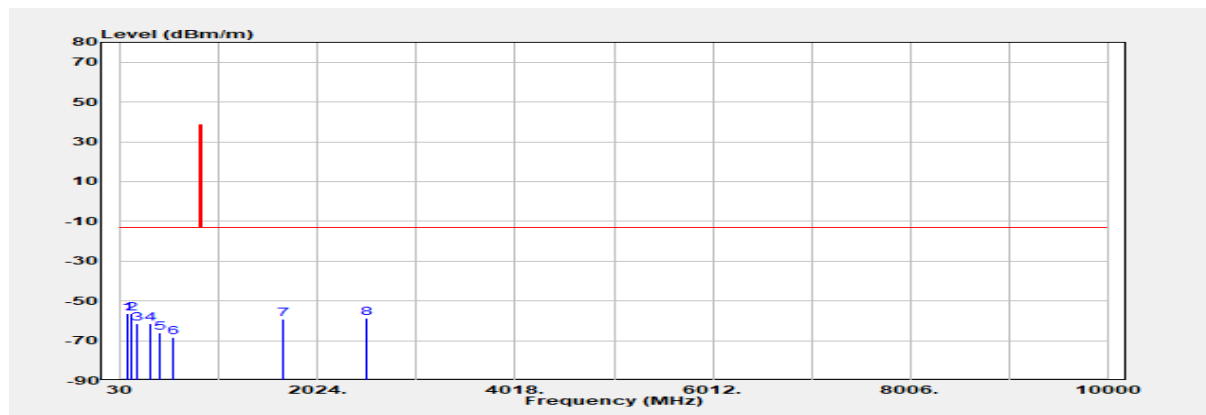
Temp./Humi. :21.4°C/56%

EUT Pol :E2 Plane

Antenna Pol. :Horizontal

Test Frequency :836.4 MHz

Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
91.110	-56.53	-54.70	-0.63	-1.20	-13.00	-43.53
145.430	-56.43	-53.05	-1.85	-1.53	-13.00	-43.43
195.870	-61.54	-63.48	3.71	-1.77	-13.00	-48.54
335.550	-61.47	-63.26	4.09	-2.30	-13.00	-48.47
429.640	-65.83	-67.16	3.95	-2.62	-13.00	-52.83
561.560	-68.33	-69.60	4.23	-2.96	-13.00	-55.33
1672.800	-59.06	-63.82	9.83	-5.07	-13.00	-46.06
2509.200	-58.56	-62.89	10.61	-6.28	-13.00	-45.56

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Report Number :TERF2408002263E2

Operation Mode :WCDMA B5

Test Mode :Tx

EUT Pol :E2 Plane

Test Frequency :846.4 MHz

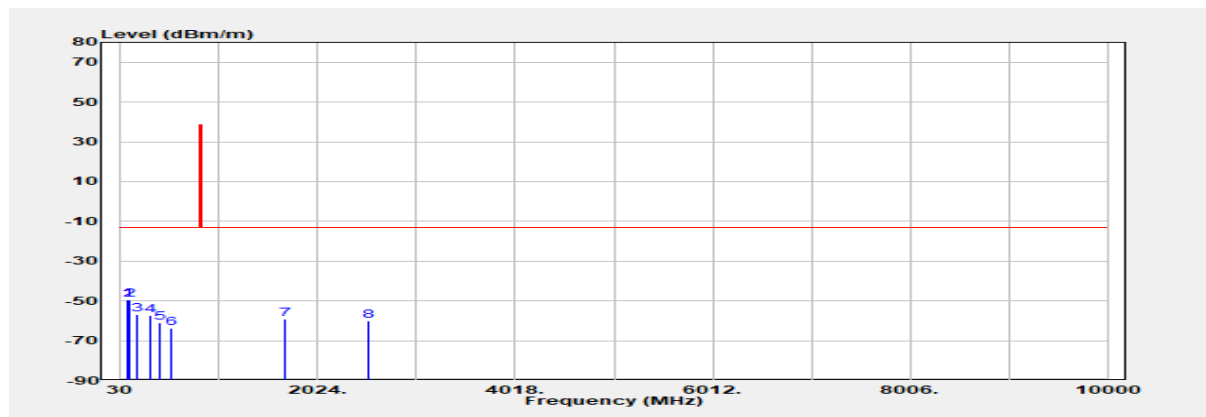
Test Site :SAC C

Test Date :2024-08-26

Temp./Humi. :21.4°C/56%

Antenna Pol. :Vertical

Engineer :Howard Huang



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
91.110	-49.47	-47.64	-0.63	-1.20	-13.00	-36.47
122.150	-49.53	-46.84	-1.28	-1.41	-13.00	-36.53
193.930	-56.89	-58.67	3.53	-1.75	-13.00	-43.89
338.460	-57.29	-59.16	4.17	-2.30	-13.00	-44.29
422.850	-61.08	-62.44	3.95	-2.59	-13.00	-48.08
535.370	-63.58	-64.94	4.25	-2.89	-13.00	-50.58
1692.800	-59.36	-64.20	9.93	-5.09	-13.00	-46.36
2539.200	-59.95	-64.21	10.60	-6.34	-13.00	-46.95

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Report Number :TERF2408002263E2

Operation Mode :WCDMA B5

Test Mode :Tx

EUT Pol :E2 Plane

Test Frequency :846.4 MHz

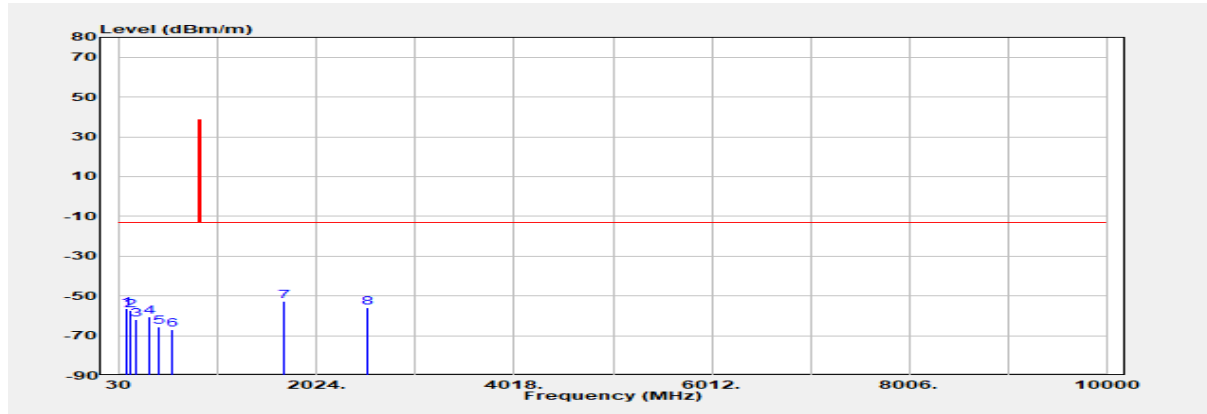
Test Site :SAC C

Test Date :2024-08-26

Temp./Humi. :21.4°C/56%

Antenna Pol. :Horizontal

Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
91.110	-56.19	-54.36	-0.63	-1.20	-13.00	-43.19
144.460	-57.20	-53.74	-1.93	-1.53	-13.00	-44.20
193.930	-61.90	-63.68	3.53	-1.75	-13.00	-48.90
336.520	-60.50	-62.32	4.12	-2.30	-13.00	-47.50
423.820	-65.69	-67.05	3.95	-2.59	-13.00	-52.69
561.560	-66.91	-68.18	4.23	-2.96	-13.00	-53.91
1692.800	-52.58	-57.42	9.93	-5.09	-13.00	-39.58
2539.200	-56.10	-60.36	10.60	-6.34	-13.00	-43.10

~ End of Report ~

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