

FCC PART 22H, PART 24E TEST REPORT

For

AMGOO TELECOM CO., LTD.

3/F, Block R2-A(North), Gaoxin S.Ave.4th, Hi-Tech Industrial Park, Nanshan District, Shenzhen, China

FCC ID: UOSAM246F

Report Type:
Original Report

Mobile Phone

Report Number: RSZ170523003-00C

Report Date: 2017-06-14

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Reviewed By: Engineer

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Note: This test report is prepared for the customer shown above and for the equipment described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp.

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The AMGOO TELECOM CO., LTD.'s product, model number: AM246F (FCC ID: UOSAM246F) or the "EUT" in this report was a Mobile Phone, which was measured approximately: $10.7 \text{ cm (L)} \times 5.3 \text{ cm (W)} \times 1.7 \text{ cm (H)}$, rated with input voltage: DC 3.7V rechargeable Li-ion battery or DC 5.0V from adapter.

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Adapter Information:

Model: CH3

Input: AC100-240V, 50/60Hz, 0.15 A

Output: DC5.0V, 500 mA

*All measurement and test data in this report was gathered from production sample serial number: 1701085 (Assigned by BACL, Kunshan). The EUT supplied by the applicant was received on 2017-05-23.

Objective

This type approval report is prepared on behalf of *AMGOO TELECOM CO.*, *LTD.* in accordance with Part 2, Part 22-Subpart H, Part 24-Subpart E of the Federal Communication Commission's rules.

The objective is to determine the compliance of EUT with FCC rules for output power, modulation characteristic, occupied bandwidth, and spurious emission at antenna terminal, spurious radiated emission, frequency stability, and band edge.

Related Submittal(s)/Grant(s)

FCC Part 15B JBP, Part 15.247 DSS submissions with FCC ID: UOSAM246F.

Test Methodology

All tests and measurements indicated in this document were performed in accordance with the Code of Federal Regulations Title 47 Part 2, Sub-Part J as well as the following parts:

Part 22 Subpart H - Public Mobile Services

Part 24 Subpart E - Personal Communication Services

Applicable Standards: TIA/EIA 603-D.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Kunshan). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

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Measurement Uncertainty

	Item	Uncertainty
RF conducted	d test with spectrum	±0.9dB
D. P. C. L. C.	30MHz~1GHz	±5.91dB
Radiated emission	Above 1G	±4.92dB
Occupi	ed Bandwidth	±0.5kHz
Te	mperature	±1.0℃
Н	Iumidity	±6%

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Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu province, China

Test site at Bay Area Compliance Laboratories Corp. (Kunshan) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on November 06, 2014. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2014.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 815570. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

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SYSTEM TEST CONFIGURATION

Description of Test Configuration

The EUT was configured for testing according to TIA/EIA-603-D.

The final qualification test was performed with the EUT operating at normal mode.

Equipment Modifications

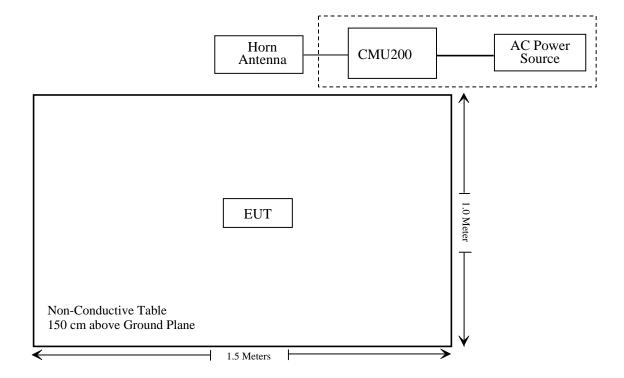
No modification was made to the EUT.

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number	
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	110605	

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Block Diagram of Test Setup



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SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1307, §2.1093	RF Exposure (SAR)	Compliance*
\$2.1046; \$ 22.913 (a); \$ 24.232 (c)	RF Output Power	Compliance
§ 2.1047	Modulation Characteristics	Not Applicable
§ 2.1049; § 22.905 § 22.917; § 24.238	Bandwidth	Compliance
§ 2.1051, § 22.917 (a); § 24.238 (a)	Spurious Emissions at Antenna Terminal	Compliance
§ 2.1053 § 22.917 (a); § 24.238 (a)	Field Strength of Spurious Radiation	Compliance
§ 22.917 (a); § 24.238 (a)	Out of band emission, Band Edge	Compliance
§ 2.1055 § 22.355; § 24.235	Frequency stability vs. temperature Frequency stability vs. voltage	Compliance

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Note: * Please refer to SAR report released by BACL, report number: RSZ170523003-20.

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TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
	F	Radiated Emission	n Test		
Sonoma Instrunent	Amplifier	330	330 171377		2017-10-21
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2016-11-25	2017-11-25
Sunol Sciences	Broadband Antenna	JB3	A090314-2	2016-01-09	2019-01-08
Sunol Sciences	Broadband Antenna	JB3	A090314-1	2016-01-09	2019-01-08
Narda	Pre-amplifier	AFS42- 00101800	2001270	2016-09-08	2017-09-08
EMCO	Horn Antenna	3116	00084159	2016-10-18	2019-10-17
Rohde & Schwarz	Signal Analyzer	FSIQ26	100048	2016-11-25	2017-11-25
ETS	Horn Antenna	3115	6229	2016-12-12	2019-12-12
ETS	Horn Antenna	3115	9311-4159	2016-01-11	2019-01-10
R&S	Auto test Software	EMC32	V 09.10.0	NCR	NCR
haojintech	Coaxial Cable	Cable-1	001	2016-12-12	2017-12-12
haojintech	Coaxial Cable	Cable-2	002	2016-12-12	2017-12-12
haojintech	Coaxial Cable	Cable-3	003	2016-12-12	2017-12-12
MICRO-COAX	Coaxial Cable	Cable-4	004	2016-12-12	2017-12-12
MICRO-COAX	Coaxial Cable	Cable-5	005	2016-12-12	2017-12-12
MICRO-COAX	Coaxial Cable	Cable-7	007	2016-12-12	2017-12-12
НР	Signal Generator	8341B	2624A00116	2016-08-29	2017-08-29
		RF Conducted	test		
BACL	TS 8997 Cable-01	T-KS-EMC086	T-KS-EMC086	2016-12-09	2017-12-08
BACL	RF cable	KS-LAB-012	KS-LAB-012	2016-12-15	2017-12-14
WEINSCHEL	3dB Attenuator	5326	N/A	2016-06-18	2017-06-18
Rohde & Schwarz	OSP120 BASE UNIT	OSP120	101247	2016-07-04	2017-07-03
Rohde & Schwarz	Signal Analyzer	FSIQ26	836131/009	2016-09-21	2017-09-21
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	110605	2016-11-25	2017-11-25
HONOVA	Power Splitter	ZFRSC-14-S+	019411452	2016-06-12	2017-06-12

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^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Kunshan) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §1.1307 & §2.1093 - RF EXPOSURE

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Applicable Standard

FCC§1.1310 and §2.1093.

Test Result

Compliance, please refer to the SAR report: RSZ170523003-20.

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FCC §2.1047 - MODULATION CHARACTERISTIC

According to FCC $\S 2.1047(d)$, Part 22H & 24E there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

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FCC § 2.1046, § 22.913 (a) & § 24.232 (c) - RF OUTPUT POWER

Applicable Standard

According to FCC §2.1046 and §22.913 (a), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

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According to FCC §2.1046 and §24.232 (c), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

Test Procedure

Conducted method:

The RF output of the transmitter was connected to the wireless test set and the spectrum analyzer through sufficient attenuation.



Radiated method:

TIA 603-D section 2.2.17

Test Data

Environmental Conditions

Temperature:	24 ℃
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

The testing was performed by Nefertari Xu on 2017-06-07.

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Conducted Power

Cellular Band (Part 22H)

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Mode	Channel	Frequency (MHz)	Average Output Power (dBm)	Limit (dBm)
	128	824.2	32.73	38.45
GSM	190	836.6	32.66	38.45
	251	848.8	32.58	38.45

Mode	Mode Channel Frequency			Average Output Power (dBm)				
3.2000		(MHz)	1 slot	2 slots	3 slots	4 slots	(dBm)	
	128	824.2	32.94	29.90	27.25	24.93	38.45	
GPRS	190	836.6	32.87	29.78	27.14	24.77	38.45	
	251	848.8	32.79	29.75	27.10	24.70	38.45	

PCS Band (Part 24E)

Mode	Channel	Frequency (MHz)	Average Output Power (dBm)	Limit (dBm)
	512	1850.2	29.82	33
GSM	661	1880.0	29.54	33
	810	1909.8	29.09	33

Mode	Channel	Frequency		Limit			
		(MHz)	1 slot	2 slots	3 slots	4 slots	(dBm)
	512	1850.2	28.40	23.66	20.95	18.42	33
GPRS	661	1880.0	28.75	24.19	21.35	18.89	33
	810	1909.8	28.53	25.14	22.08	19.53	33

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Radiated Power

GSM Mode:

	Receiver	Turntable	Rx An	tenna	Substituted		ed	Absolute	FCC Part	t 22H/24E
Frequency (MHz)	Reading (dBµV)	Angle Degree	Height (m)	Polar (H/V)	Level (dBm)	Cable loss (dB)	Antenna Gain (dB)	Level (dBm)	Limit (dBm)	Margin (dB)
ERP for Cellular Band (Part 22H), Middle Channel										
836.6	91.91	8	1.1	Н	22.2	0.26	4.75	26.69	38.45	11.76
836.6	100.83	266	1.8	V	27.1	0.26	4.75	31.59	38.45	6.86
	EIRP for PCS Band (Part 24E), Middle Channel									
1880.00	75.59	66	1.3	Н	14.1	0.45	8.84	22.49	33	10.51
1880.00	83.82	108	1.7	V	20.1	0.45	8.84	28.49	33	4.51

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Note:

All above data were tested with no amplifier. Absolute Level = Substituted Level - Cable loss + Antenna Gain Margin = Limit- Absolute Level

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FCC §2.1049, §22.917, §22.905 & §24.238 - BANDWIDTH

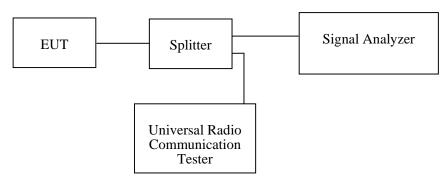
Applicable Standard

FCC §2.1049, §22.917, §22.905 and §24.238.

Test Procedure

The RF output of the transmitter was connected to the simulator and the spectrum analyzer through sufficient attenuation.

The resolution bandwidth of the spectrum analyzer was set at 5 kHz (GSM) and the 26 dB & 99% bandwidth was recorded.



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Test Data

Environmental Conditions

Temperature:	24 ℃
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

The testing was performed by Nefertari Xu on 2017-06-07.

EUT operation mode: Transmitting

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Test Result: Compliance. Please refer to the following tables and plots.

Cellular Band (Part 22H)

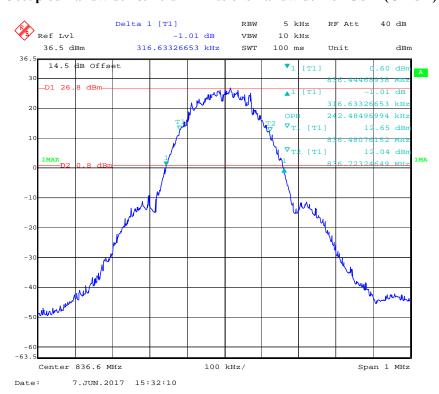
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Mode	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Emission Bandwidth (kHz)	
GSM(GMSK)	836.6	242.5	316.6	

PCS Band (Part 24E)

Mode	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Emission Bandwidth (kHz)	
GSM(GMSK)	1880.0	240.5	316.6	

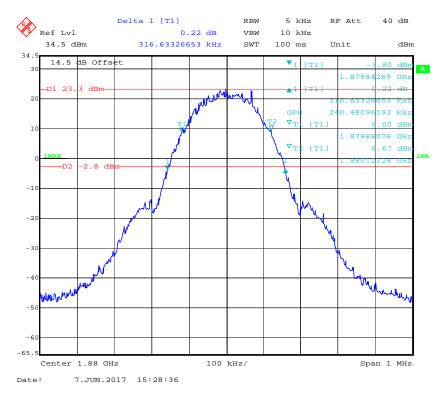
Cellular Band (Part 22H) 99% Occupied Bandwidth & 26 dB Emissions Bandwidth for GSM (GMSK) Mode



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PCS Band (Part 24E) 99% Occupied Bandwidth & 26 dB Emissions Bandwidth for GSM (GMSK) Mode

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FCC §2.1051, §22.917(a) & §24.238(a) - SPURIOUS EMISSIONS AT ANTENNA TERMINALS

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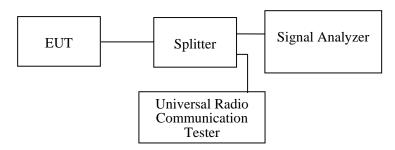
Applicable Standard

FCC §2.1051, §22.917(a) and §24.238(a).

The spectrum was to be investigated to the tenth harmonics of the highest fundamental frequency as specified in § 2.1051.

Test Procedure

The RF output of the transceiver was connected to a spectrum analyzer and simulator through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz. Sufficient scans were taken to show any out of band emissions up to 10th harmonic.



Test Data

Environmental Conditions

Temperature:	24 °C
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

The testing was performed by Nefertari Xu on 2017-06-07.

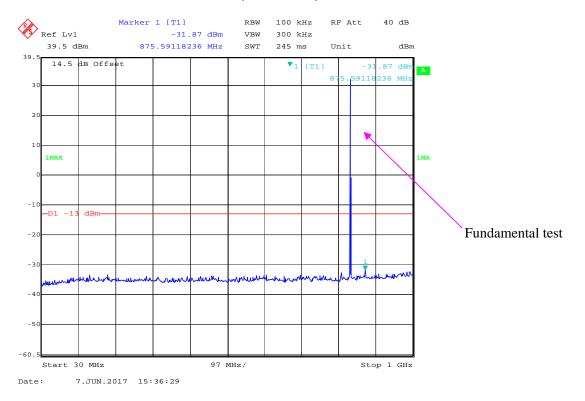
EUT operation mode: Transmitting

Test result: Compliance, please refer to the following plots.

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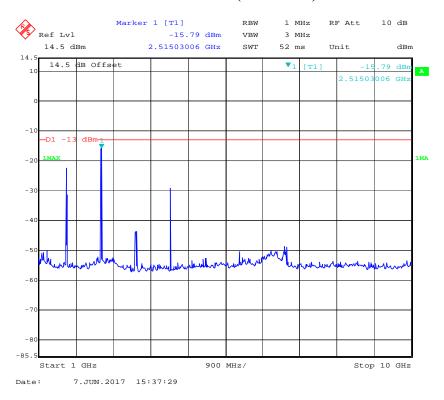
Cellular Band (Part 22H)

30 MHz - 1 GHz (GSM Mode)



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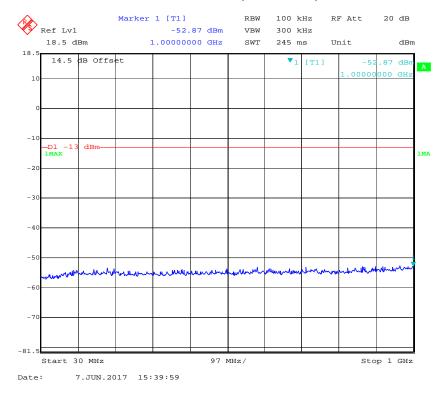
1 GHz – 10 GHz (GSM Mode)



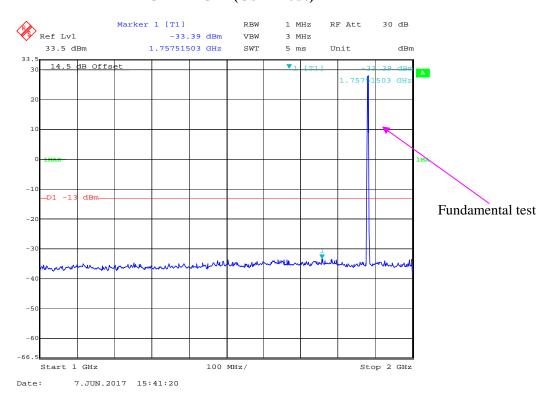
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PCS Band (Part 24E)

30 MHz – 1 GHz (GSM Mode)



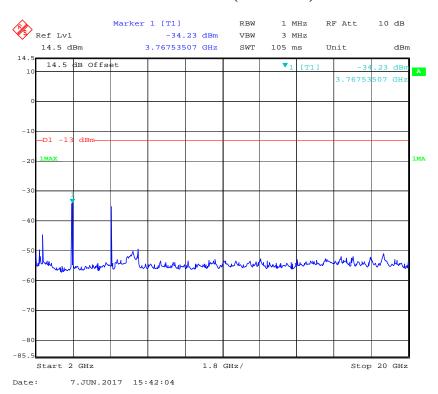
1 GHz – 2 GHz (GSM Mode)



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2 GHz - 20 GHz (GSM Mode)

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FCC §2.1053, §22.917 & §24.238 - SPURIOUS RADIATED EMISSIONS

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Applicable Standard

FCC § 2.1053, §22.917 and § 24.238.

Test Procedure

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the receiving antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis

The frequency range up to tenth harmonic of the fundamental frequency was investigated.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious emissions in $dB = 10 \lg (TXpwr in Watts/0.001) - the absolute level$

Spurious attenuation limit in $dB = 43 + 10 \text{ Log}_{10}$ (power out in Watts)

Test Data

Environmental Conditions

Temperature:	24 ℃
Relative Humidity:	48 %
ATM Pressure:	101.0 kPa

The testing was performed by Layne Li on 2017-06-10.

EUT operation mode: Transmitting

Pre-scan with Low, Middle and High channel, the worst case as below:

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30 MHz ~ **10 GHz**:

Cellular Band (Part 22H)

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Receiver Turntable		Rx Antenna		Substituted			Absolute			
Frequency (MHz)	Reading (dBµV)	Angle Degree	Height (m)	Polar (H/V)	Level (dBm)	Cable Loss (dB)	Antenna Gain (dB)	Level (dBm)	Limit (dBm)	Margin (dB)
	GSM Mode, Middle channel									
256.65	43.00	107	2.2	Н	-65.4	0.2	3.85	-61.75	-13	48.75
256.65	39.81	243	2.5	V	-66.0	0.2	3.85	-62.35	-13	49.35
1673.20	62.20	290	1.6	Н	-39.6	0.40	8.52	-31.48	-13	18.48
1673.20	71.87	208	2.1	V	-31.9	0.40	8.52	-23.78	-13	10.78

30 MHz ~ 20 GHz:

PCS Band (Part 24E)

Receiver Turntable		Rx Antenna		Substituted			Absolute			
Frequency (MHz)	Reading (dBµV)	Angle Degree	Height (m)	Polar (H/V)	Level (dBm)	Cable Loss (dB)	Antenna Gain (dB)	Level (dBm)	Limit (dBm)	Margin (dB)
	GSM Mode, Middle channel									
256.65	42.50	213	1.8	Н	-65.9	0.2	3.85	-62.25	-13	49.25
256.65	39.41	64	2.2	V	-66.4	0.2	3.85	-62.75	-13	49.75
3760.00	40.02	98	2.1	Н	-56.0	0.59	9.72	-46.87	-13	33.87
3760.00	42.21	192	1.1	V	-54.9	0.59	9.72	-45.77	-13	32.77

Note:

1) Absolute Level = Substituted Level - Cable loss + Antenna Gain

2) Margin = Limit- Absolute Level

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FCC §22.917(a) & §24.238(a) - BAND EDGES

Applicable Standard

According to § 22.917(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P) dB$.

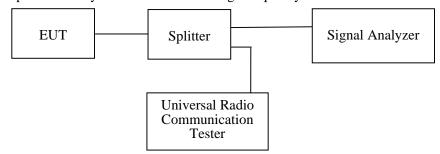
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According to \$24.238(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

Test Procedure

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

The center of the spectrum analyzer was set to block edge frequency



Test Data

Environmental Conditions

Temperature:	24 ℃
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

The testing was performed by Nefertari Xu on 2017-06-07.

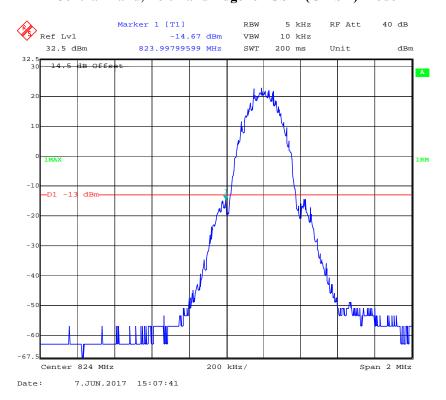
EUT operation mode: Transmitting

Test Result: Compliance. Please refer to the following plots.

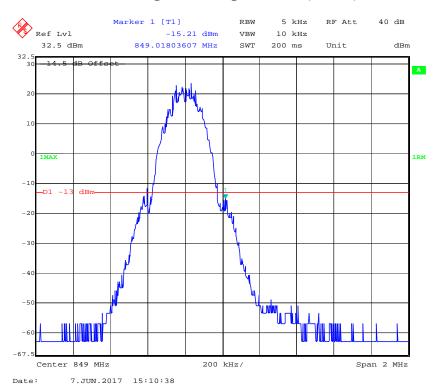
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Cellular Band, Left Band Edge for GSM (GMSK) Mode

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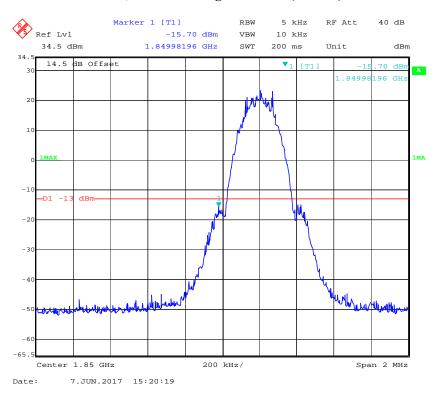
Cellular Band, Right Band Edge for GSM (GMSK) Mode



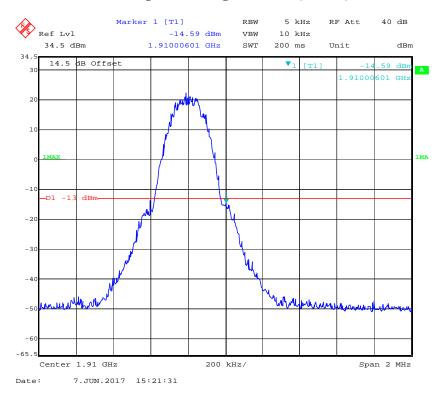
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PCS Band, Left Band Edge for GSM (GMSK) Mode

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PCS Band, Right Band Edge for GSM (GMSK) Mode



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FCC §2.1055, §22.355 & §24.235 - FREQUENCY STABILITY

Applicable Standard

FCC § 2.1055, §22.355, §24.235

According to §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table below:

Frequency Tolerance for Transmitters in the Public Mobi	oile Services
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Frequency Range (MHz)	Base, fixed (ppm)	Mobile ≤3 watts (ppm)	Mobile > 3 watts (ppm)
25 to 50	20.0	20.0	50.0
50 to 450	5.0	5.0	50.0
450 to 512	2.5	5.0	5.0
821 to 896	1.5	2.5	2.5
928 to 929.	5.0	N/A	N/A
929 to 960.	1.5	N/A	N/A
2110 to 2220	10.0	N/A	N/A

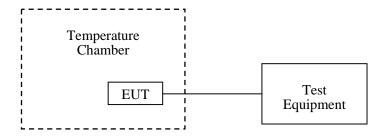
According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stays within the authorized frequency block.

Test Procedure

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to communication test set via feed-through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable exited the chamber through an opening made for the purpose.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the communication test set.

Frequency Stability vs. Voltage: For hand carried, battery powered equipment; reduce primary supply voltage to the battery operating end point which shall be specified by the manufacturer.



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Test Data

Environmental Conditions

Temperature:	24 ℃
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

Report No.: RSZ170523003-00C

The testing was performed by Nefertari Xu on 2017-06-07.

EUT operation mode: Transmitting

Test Result: Compliance. Please refer to the following tables.

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Cellular Band (Part 22H)

Report No.: RSZ170523003-00C

GSM Mode

	Midd	lle Channel, f _o =836.6N	MHz	
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30		3	0.003586	2.5
-20		6	0.007172	2.5
-10		4	0.004781	2.5
0		9	0.010758	2.5
10	3.7	6	0.007172	2.5
20		3	0.003586	2.5
30		5	0.005977	2.5
40		7	0.008367	2.5
50		4	0.004781	2.5
25	V _{min} .= 3.5	11	0.013148	2.5
25	V _{max.} = 4.2	8	0.009563	2.5

PCS Band (Part 24E)

GSM Mode

Middle Channel, f _o =1880.0 MHz						
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Result		
-30		9	0.004787	pass		
-20		17	0.009043	pass		
-10		10	0.005319	pass		
0		16	0.008511	pass		
10	3.7	11	0.005851	pass		
20		12	0.006383	pass		
30		16	0.008511	pass		
40		13	0.006915	pass		
50		11	0.005851	pass		
25	V _{min} .= 3.5	17	0.009043	pass		
25	V _{max.} = 4.2	12	0.006383	pass		

***** END OF REPORT *****

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