
FCC Test Report

Report No.: AGC00408210801FE02A

FCC ID : 2A35I-PX1

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : 5G Smart phone

BRAND NAME : InfiRay

MODEL NAME : PX1

APPLICANT : Yantai Iray Technology Co., Ltd

DATE OF ISSUE : Jan. 18, 2022

STANDARD(S) : FCC Part 22H & 24E& 27L Rules

REPORT VERSION : V1.0

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jan. 18, 2022	Valid	Class II Permissive Change

Note: The original test report Ref. No. (AGC00408210801FE02) (dated 2021-10-20), was modified on 2022-01-18 to include the following changes and additions for:

- Updated brand name, model name.
- Uddated applicant name and applicant address.
- Uddated manufacturer name and manufacturer address.
- Updated Battery
- Updated Adapter.

For the above described change(s),updated RADIATED SPURIOUS EMISSION TEST.

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1. GENERAL INFORMATION

Applicant	Yantai Iray Technology Co., Ltd
Address	Guiyang Street NO.11, YEDA, Yantai, China
Manufacturer	Yantai Iray Technology Co., Ltd
Address	Guiyang Street NO.11, YEDA, Yantai, China
Factory	Shenzhen AIJIEMO Technology Company Limited
Address	1st Floor 101 and 2nd Floor 201, Building A2, Huafeng Century Technology Park, Nanchang Community, Xixiang, Baoan District, Shenzhen, China
Product Designation	5G Smart phone
Brand Name	Infiray
Test Model	PX1
Date of test	Dec. 24, 2021~Jan. 18, 2022
Deviation	No any deviation from the test method.
Condition of Test Sample	Normal

WE HEREBY CERTIFY THAT:

The above equipment was tested by Attestation of Global Compliance(Shenzhen) Co., Ltd. The data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI/TIA-603-E-2016. The sample tested as described in this report is in compliance with the FCC Rules Part 22H, 24E and 27L. The test results of this report relate only to the tested sample identified in this report.

Prepared By

*Bibo Zhang*Bibo Zhang
(Project Engineer)

Jan. 18, 2022

Reviewed By

*Calvin Liu*Calvin Liu
(Reviewer)

Jan. 18, 2022

Approved By

*Max Zhang*Max Zhang
Authorized Officer

Jan. 18, 2022

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2. PRODUCT INFORMATION

2.1 PRODUCT TECHNICAL DESCRIPTION

A major technical description of EUT is described as following:

Product Designation:	5G Smart phone
Hardware Version:	V1.00
Software Version:	N18804.02.01.00US
Support Networks:	GSM, GPRS, EDGE, WCDMA, HSDPA, HSUPA
Frequency Bands:	☒ GPRS 850 ☒ PCS1900 (U.S. Bands) ☒ GSM 900 ☒ DCS 1800 (Non-U.S. Bands) ☒ UMTS FDD Band II ☒ UMTS FDD Band IV ☒ UMTS FDD Band V (U.S. Bands) ☒ UMTS FDD Band I ☒ UMTS FDD Band VIII (Non-U.S. Bands)
Type of Modulation:	GMSK,8PSK Modulation For GSM/GPRS/EDGE BPSK,QPSK Modulation For WCDMA/HSDPA/HSUPA
Frequency Range:	GSM/GPRS/EDGE 850: 824.2MHz-848.8 MHz GSM/GPRS/EDGE 1900: 1850.2MHz-1909.8 MHz WCDMA Band II: 1852.4MHz-1907.6 MHz WCDMA Band IV: 1712.4-1752.6 MHz WCDMA Band V: 826.4-846.6 MHz
Antenna Type:	PIFA Antenna
Power Supply:	DC 3.85V by Built-in Li-ion Battery
Battery parameter:	DC 3.85V 5500mAh
Dual Card:	GSM /WCDMA Card Slot
Extreme Vol. Limits:	DC3.27V to 4.40V (Normal: DC 3.85V)
Extreme Temp. Tolerance	-30°C to +50°C
Operating Temp	5°C to +40°C

2.2 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2A35I-PX1**, filing to comply with the FCC Part 22H&24E&27L requirements.

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2.3 TEST METHODOLOGY

The tests were performed according to following standards:

No.	Identity	Document Title
1	47 CFR FCC Part 2	Frequency allocations and radio treaty matters, general rules and regulations.
2	47 CFR FCC Part 22	Public Mobile Services.
3	47 CFR FCC Part 24	Personal Communications Services.
4	47 CFR FCC Part 27	Miscellaneous Wireless Communications Services.
5	47 CFR FCC Part 90	Private Land Mobile Radio Services.
6	ANSI C63.26-2015	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services
7	ANSI/TIA-603-E-2016	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards
8	KDB 971168	DO1 v03r01 Measurement Guidance For Certification Of Licensed Digital Transmitters.

2.4 DEVICE CAPABILITIES

This device contains the following capabilities:

850/1900 GSM/GPRS/EGPRS, 850/1700/1900 WCDMA/HSPA, Multi-Band LTE, 802.11 b/g/n for WLAN, 802.11 a/n/ac for UNII, Bluetooth (1X, EDR, LE), GPS and NFC.

For emissions from 1GHz – 18GHz, low, mid, and high channels were tested with highest power and worst case configuration.

The emissions below 1GHz and above 18GHz were tested with the highest transmitting power channel and the worst case configuration.

The EUT was manipulated through three orthogonal planes of X-orientation (flatbed), Y-orientation (landscape), and Z-orientation (portrait) during the testing. Only the worst case emissions were reported in this test report.

2.5 SPECIAL ACCESSORIES

The battery was supplied by the applicant and was used as accessories and being tested with EUT intended for FCC grant together.

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2.6 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

2.7 EMISSION DESIGNATOR

GSM Emission Designator

Emission Designator = 249KGXW

GSM BW = 249 kHz

G = Phase Modulation

X = Cases not otherwise covered

W = Combination (Audio/Data)

WCDMA Emission Designator

Emission Designator = 4M17F9W

WCDMA BW = 4.17 MHz

F = Frequency Modulation

9 = Composite Digital Info

W = Combination (Audio/Data)

QAM Modulation

Emission Designator = 4M48W7D

LTE BW = 4.48 MHz

W = Amplitude/Angle Modulated

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

EDGE Emission Designator

Emission Designator = 249KG7W

GSM BW = 249 kHz

G = Phase Modulation

7 = Quantized/Digital Info

W = Combination (Audio/Data)

QPSK Modulation

Emission Designator = 4M48G7D

LTE BW = 4.48 MHz

G = Phase Modulation

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

3. TEST ENVIRONMENT

3.1 ADDRESS OF THE TEST LABORATORY

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

3.2 TEST FACILITY

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L5488

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements) for the Competence of Testing and Calibration Laboratories

A2LA-Lab Cert. No.: 5054.02

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 975832

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

IC-Registration No.: 24842

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842

3.3 ENVIRONMENTAL CONDITIONS

	NORMAL CONDITIONS	EXTREME CONDITIONS
Temperature range	15~35℃	-20℃~50℃
Humidity range	20 % to 75 %.	20 % to 75 %.
Pressure range	86-106kPa	86-106kPa
Power supply	DC 3.85V	DC3.27V or 4.40V
Note: The Extreme Temperature and Extreme Voltages declared by the manufacturer.		

3.4 MEASUREMENT UNCERTAINTY

Test	Measurement Uncertainty	Notes
Transmitter power conducted	±0.57 dB	(1)
Transmitter power Radiated	±2.20 dB	(1)
Conducted spurious emission 9KHz-40 GHz	±2.20 dB	(1)
Occupied Bandwidth	±0.01ppm	(1)
Radiated Emission 30~1000MHz	±4.10dB	(1)
Radiated Emission Above 1GHz	±4.32dB	(1)
Conducted Disturbance0.15~30MHz	±3.20dB	(1)
Radio Frequency	± 6.5 x 10-8	(1)
RF Power, Conducted	± 0.9 dB	(1)

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

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3.5 LIST OF TEST EQUIPMENT

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	May 11, 2021	May 10, 2022
LISN	R&S	ESH2-Z5	100086	Jun. 09, 2021	Jun. 08, 2022
TEST RECEIVER	R&S	ESCI	10096	Apr. 14, 2021	Apr. 13, 2022
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Nov. 17, 2021	Nov. 16, 2022
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 19, 2021	Sep. 18, 2023
preamplifier	ChengYi	EMC184045S E	980508	Sep. 19, 2021	Sep. 18, 2022
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	Apr. 23, 2021	Apr. 22, 2023
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun.08, 2021	Jun.07, 2022
ANTENNA	SCHWARZBECK	VULB9168	D69250	Apr. 28, 2021	Apr. 27, 2023
Horn Ant (18G-40GHz)	Schwarzbeck	BBHA 9170		Sep. 19, 2021	Sep. 18, 2022
Horn Ant (18G-40GHz)	ETS	QWH_SL_18 _40_K_SG		Sep. 19, 2021	Sep. 18, 2022
Power Splitter	Agilent	11636A	/	Sep.14, 2021	Sep.13, 2022
CMU200	R&S	120237	/	Jun. 09, 2021	Jun. 08, 2022
Artificial Mains Network ENV216	R&S	101242	/	Jun. 09, 2021	Jun. 08, 2022
Filter Bank Notch 1(880-915MHz)	MICRO-TRONICS	010	/	Feb. 23, 2021	Feb. 22, 2022
Filter Bank Notch 2 (1710-1785MHz)	MICRO-TRONICS	009	/	Feb. 23, 2021	Feb. 22, 2022
Filter Bank Notch 3 (1920-1980MHz)	MICRO-TRONICS	008	/	Feb. 23, 2021	Feb. 22, 2022

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4. SYSTEM TEST CONFIGURATION

4.1 EUT CONFIGURATION

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

4.2 EUT EXERCISE

The Transmitter was operated in the maximum output power mode through Communication Tester. The TX frequency was fixed which was for the purpose of the measurements.

4.3 CONFIGURATION OF EUT SYSTEM

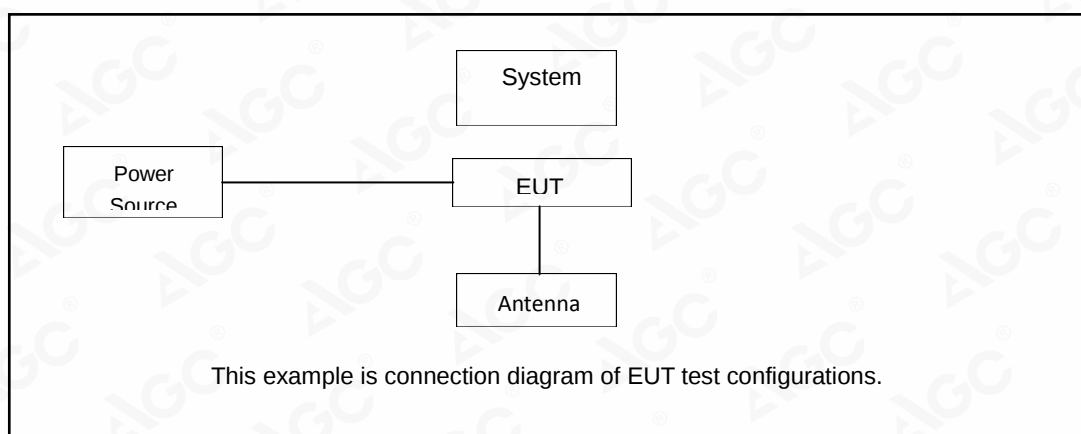


Table 2-1 Equipment Used in EUT System

4.4 EQUIPMENT USED IN TESTED SYSTEM

The Following Peripheral Devices And Interface Cables Were Connected During The Measurement:

- ☐ Test Accessories Come From The Laboratory
☒ Test Accessories Come From The Manufacturer

Item	Equipment	Model No.	Identifier	Note
1	5G Smart phone	PX1	2A35I-PX1	EUT
2	Adapter	U312QC1801	Input:100-240V, 50/60Hz, 0.5A Output: 5V 0.3A/9V 2.0A/12V 1.5A	AE
3	Battery	PX1	DC 3.85V 5500mAh	AE
4	USB Cable	N/A	N/A	AE

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5. SUMMARY OF TEST RESULTS

5.1 TEST CONDITION : RADIATED TEST

Item	Test Description	FCC Rules	Result
1	Radiated Spurious and Harmonic Emissions	§2.1053, §22.917(a), §24.238(a), §27.53(h)	Pass

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6. DESCRIPTION OF TEST MODES

Bands	Tx/Rx Frequency	RF Channel		
		Low(L)	Middle(M)	High(H)
GSM/GPRS/ EDGE850	TX (824 MHz ~ 849 MHz)	Channel 128	Channel 190	Channel 251
		824.2 MHz	836.6 MHz	848.8 MHz
WCDMA band V	TX (824 MHz ~ 849 MHz)	Channel 4132	Channel 4182	Channel 4233
		826.4 MHz	836.4 MHz	846.6 MHz

Bands	Tx/Rx Frequency	RF Channel		
		Low(L)	Middle(M)	High(H)
GSM/GPRS/ EDGE1900	TX (1850 MHz-1910 MHz)	Channel 512	Channel 661	Channel 810
		1850.2 MHz	1880.0 MHz	1909.8 MHz
WCDMA Band II	TX (1850 MHz-1910 MHz)	Channel 9262	Channel 9400	Channel 9538
		1852.4 MHz	1880.0 MHz	1907.6 MHz

Bands	Tx/Rx Frequency	RF Channel		
		Low(L)	Middle(M)	High(H)
WCDMA Band IV	TX (1710 MHz-1755 MHz)	Channel 1312	Channel 1412	Channel 1513
		1712.4 MHz	1732.4 MHz	1752.6 MHz

Pre-scan all bandwidth and RB, find worse case mode are chosen to the report, the worse mode applicability and tested channel detail as below:

Band	Radiated	Conducted
GSM/GPRS/ EDGE 850/1900	GSM (GMSK, 1Tx-slot) Link GPRS (GMSK, 1Tx-slot) Link EDGE (8PSK, 1Tx-slot) Link	GSM (GMSK, 1Tx-slot) Link GPRS (GMSK, 1Tx-slot) Link EDGE (8PSK, 1Tx-slot) Link
WCDMA Band II/IV/V	RMC 12.2kbps Link	RMC 12.2kbps Link

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ACCORDING TO 3GPP 25.101 SUB-CLAUSE 6.2.2 , THE MAXIMUM OUTPUT POWER IS ALLOWED TO BE REDUCED BY FOLLOWING THE TABLE.

Table 6.1aA: UE maximum output power with HS-DPCCH and E-DCH

UE Transmit Channel Configuration	CM(db)	MPR(db)
For all combinations of ,DPDCH,DPCCH HS-DPDCH,E-DPDCH and E-DPCCH	$0 \leq CM \leq 3.5$	MAX(CM-1,0)
Note: CM=1 for $\beta_c/\beta_d=12/15, \beta_{hs}/\beta_c=24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.		

The device supports MPR to solve linearity issues (ACLR or SEM) due to the higher peak-to average ratios (PAR) of the HSUPA signal. This prevents saturating the full range of the TX DAC inside of device and provides a reduced power output to the RF transceiver chip according to the Cubic Metric (a function of the combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH).

When E-DPDCH channels are present the beta gains on those channels are reduced firsts to try to get the power under the allowed limit. If the beta gains are lowered as far as possible, then a hard limiting is applied at the maximum allowed level.

The SW currently recalculates the cubic metric every time the beta gains on the E-DPDCH are reduced. The cubic metric will likely get lower each time this is done .However, there is no reported reduction of maximum output power in the HSUPA mode since the device also provides a compensate for the power back-off by increasing the gain of TX_AGC in the transceiver (PA) device.

The end effect is that the DUT output power is identical to the case where there is no MPR in the device.

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7. RADIATED SPURIOUS EMISSION

7.1. PROVISIONS APPLICABLE

(A) On any frequency outside a licensee's frequency block (e.g. A, D, B, etc.) within the USPCS spectrum, the power of any emission shall be attenuated below the transmitter power (P, in Watts) by at least $43+10\log(P)$ dB. The specification that emissions shall be attenuated below the transmitter power (P) by at least $43 + 10 \log (P)$ dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm.

At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

(B) For specific criteria, please refer to the description in section 9.2 of the report for corresponding evaluation.

7.2. MEASUREMENT PROCEDURE

1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.

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9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.
11. For spurious emissions above 1GHz, a horn antenna is substituted in place of the EUT.
The substitute antenna is driven by a signal generator and the previously recorded signal was duplicated.
The spurious emissions is calculated by the following formula;

$$\text{Result(dBm)} = \text{Pg(dBm)} + \text{Factor(dB)}$$

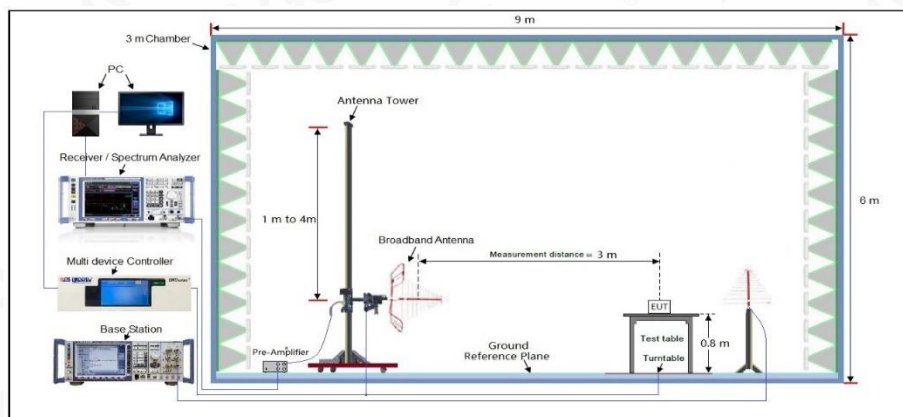
$$\text{Factor(dB)} = \text{Ant Gain(dB)} - \text{Cable Loss(dB)} + \text{Power Splitter(dB)} \text{ (Above 1GHz)}$$

$$\text{Factor(dB)} = \text{Ant Gain(dB)} - \text{Cable Loss(dB)} \text{ (Below 1GHz)}$$
 Where: Pg is the generator output power into the substitution antenna.
 If the fundamental frequency is below 1GHz, RF output power has been converted to EIRP.

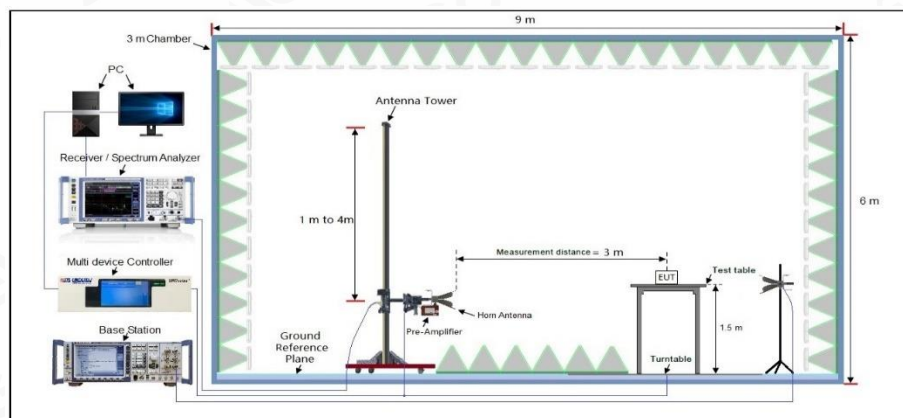
$$\text{EIRP(dBm)} = \text{ERP(dBm)} + 2.15$$

7.3. MEASUREMENT setup

Radiated Emissions 30MHz to 1GHz Test setup



Radiated Emissions Above 1GHz Test setup



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7.4 MEASUREMENT RESULT

The measurement Below 1GHz data as follows:

GSM 850							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
GSM_ Lowest Channel							
1	159.759	-63.58	15.52	-48.06	-13.00	-35.06	Horizontal
2	240.144	-60.29	16.75	-43.54	-13.00	-30.54	Horizontal
3	754.963	-58.59	19.35	-39.24	-13.00	-26.24	Horizontal
4	46.708	-62.81	10.44	-52.37	-13.00	-39.37	Vertical
5	433.340	-59.29	17.75	-41.54	-13.00	-28.54	Vertical
6	502.247	-59.79	18.66	-41.13	-13.00	-28.13	Vertical
GSM_ Middle Channel							
1	31.735	-61.48	9.78	-51.70	-13.00	-38.70	Horizontal
2	159.759	-61.88	13.75	-48.13	-13.00	-35.13	Horizontal
3	240.144	-61.44	16.75	-44.69	-13.00	-31.69	Horizontal
4	43.233	-63.50	10.23	-53.27	-13.00	-40.27	Vertical
5	433.340	-60.77	17.75	-43.02	-13.00	-30.02	Vertical
6	498.730	-58.20	18.02	-40.18	-13.00	-27.18	Vertical
GSM_ Highest Channel							
1	159.759	-65.28	13.75	-51.53	-13.00	-38.53	Horizontal
2	240.144	-62.92	16.75	-46.17	-13.00	-33.17	Horizontal
3	679.435	-60.83	19.01	-41.82	-13.00	-28.82	Horizontal
4	43.233	-65.40	10.23	-55.17	-13.00	-42.17	Vertical
5	433.340	-61.75	17.75	-44.00	-13.00	-31.00	Vertical
6	498.730	-60.53	18.02	-42.51	-13.00	-29.51	Vertical

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PCS 1900							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
GSM_ Lowest Channel							
1	159.759	-63.14	15.52	-47.62	-13.00	-34.62	Horizontal
2	240.144	-60.38	16.75	-43.63	-13.00	-30.63	Horizontal
3	754.963	-58.24	19.35	-38.89	-13.00	-25.89	Horizontal
4	46.708	-64.36	10.44	-53.92	-13.00	-40.92	Vertical
5	433.340	-61.25	17.75	-43.50	-13.00	-30.50	Vertical
6	502.247	-57.44	18.66	-38.78	-13.00	-25.78	Vertical
GSM_ Middle Channel							
1	31.735	-61.96	9.78	-52.18	-13.00	-39.18	Horizontal
2	159.759	-63.52	13.75	-49.77	-13.00	-36.77	Horizontal
3	240.144	-60.08	16.75	-43.33	-13.00	-30.33	Horizontal
4	43.233	-62.32	10.23	-52.09	-13.00	-39.09	Vertical
5	433.340	-60.37	17.75	-42.62	-13.00	-29.62	Vertical
6	498.730	-57.91	18.02	-39.89	-13.00	-26.89	Vertical
GSM_ Highest Channel							
1	159.759	-61.93	13.75	-48.18	-13.00	-35.18	Horizontal
2	240.144	-61.81	16.75	-45.06	-13.00	-32.06	Horizontal
3	679.435	-58.76	19.01	-39.75	-13.00	-26.75	Horizontal
4	43.233	-63.51	10.23	-53.28	-13.00	-40.28	Vertical
5	433.340	-59.55	17.75	-41.80	-13.00	-28.8	Vertical
6	498.730	-58.02	18.02	-40.00	-13.00	-27.00	Vertical

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WCDMA Band II							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
RMC 12.2kbps_ Lowest Channel							
1	159.759	-65.42	15.52	-49.90	-13.00	-36.90	Horizontal
2	240.144	-63.41	16.75	-46.66	-13.00	-33.66	Horizontal
3	754.963	-59.02	19.35	-39.67	-13.00	-26.67	Horizontal
4	46.708	-64.10	10.44	-53.66	-13.00	-40.66	Vertical
5	433.340	-62.94	17.75	-45.19	-13.00	-32.19	Vertical
6	502.247	-58.78	18.66	-40.12	-13.00	-27.12	Vertical
RMC 12.2kbps_ Middle Channel							
1	31.735	-59.73	9.78	-49.95	-13.00	-36.95	Horizontal
2	159.759	-61.02	13.75	-47.27	-13.00	-34.27	Horizontal
3	240.144	-57.39	16.75	-40.64	-13.00	-27.64	Horizontal
4	43.233	-61.54	10.23	-51.31	-13.00	-38.31	Vertical
5	433.340	-59.48	17.75	-41.73	-13.00	-28.73	Vertical
6	498.730	-57.79	18.02	-39.77	-13.00	-26.77	Vertical
RMC 12.2kbps_ Highest Channel							
1	159.759	-62.06	13.75	-48.31	-13.00	-35.31	Horizontal
2	240.144	-60.30	16.75	-43.55	-13.00	-30.55	Horizontal
3	679.435	-56.91	19.01	-37.90	-13.00	-24.90	Horizontal
4	43.233	-59.15	10.23	-48.92	-13.00	-35.92	Vertical
5	433.340	-60.08	17.75	-42.33	-13.00	-29.33	Vertical
6	498.730	-56.29	18.02	-38.27	-13.00	-25.27	Vertical

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WCDMA Band IV							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
RMC 12.2kbps_ Lowest Channel							
1	159.759	-65.81	15.52	-50.29	-13.00	-37.29	Horizontal
2	240.144	-61.95	16.75	-45.20	-13.00	-32.2	Horizontal
3	754.963	-57.99	19.35	-38.64	-13.00	-25.64	Horizontal
4	46.708	-64.94	10.44	-54.50	-13.00	-41.5	Vertical
5	433.340	-61.05	17.75	-43.30	-13.00	-30.3	Vertical
6	502.247	-58.06	18.66	-39.40	-13.00	-26.4	Vertical
RMC 12.2kbps_ Middle Channel							
1	31.735	-64.33	9.78	-54.55	-13.00	-41.55	Horizontal
2	159.759	-62.80	13.75	-49.05	-13.00	-36.05	Horizontal
3	240.144	-60.63	16.75	-43.88	-13.00	-30.88	Horizontal
4	43.233	-61.86	10.23	-51.63	-13.00	-38.63	Vertical
5	433.340	-62.89	17.75	-45.14	-13.00	-32.14	Vertical
6	498.730	-57.24	18.02	-39.22	-13.00	-26.22	Vertical
RMC 12.2kbps_ Highest Channel							
1	159.759	-64.32	13.75	-50.57	-13.00	-37.57	Horizontal
2	240.144	-62.19	16.75	-45.44	-13.00	-32.44	Horizontal
3	679.435	-59.89	19.01	-40.88	-13.00	-27.88	Horizontal
4	43.233	-63.49	10.23	-53.26	-13.00	-40.26	Vertical
5	433.340	-61.88	17.75	-44.13	-13.00	-31.13	Vertical
6	498.730	-59.31	18.02	-41.29	-13.00	-28.29	Vertical

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WCDMA Band V							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
RMC 12.2kbps_ Lowest Channel							
1	159.76	-64.16	15.52	-48.64	-13.00	-35.64	Horizontal
2	240.14	-59.37	16.75	-42.62	-13.00	-29.62	Horizontal
3	754.96	-55.11	19.35	-35.76	-13.00	-22.76	Horizontal
4	46.71	-62.31	10.44	-51.87	-13.00	-38.87	Vertical
5	433.34	-59.53	17.75	-41.78	-13.00	-28.78	Vertical
6	502.25	-56.23	18.66	-37.57	-13.00	-24.57	Vertical
RMC 12.2kbps_ Middle Channel							
1	31.74	-60.34	9.78	-50.56	-13.00	-37.56	Horizontal
2	159.76	-63.13	13.75	-49.38	-13.00	-36.38	Horizontal
3	240.14	-60.54	16.75	-43.79	-13.00	-30.79	Horizontal
4	43.23	-62.40	10.23	-52.17	-13.00	-39.17	Vertical
5	433.34	-60.62	17.75	-42.87	-13.00	-29.87	Vertical
6	498.73	-56.51	18.02	-38.49	-13.00	-25.49	Vertical
RMC 12.2kbps_ Highest Channel							
1	159.76	-60.71	13.75	-46.96	-13.00	-33.96	Horizontal
2	240.14	-61.53	16.75	-44.78	-13.00	-31.78	Horizontal
3	679.44	-55.09	19.01	-36.08	-13.00	-23.08	Horizontal
4	43.23	-61.46	10.23	-51.23	-13.00	-38.23	Vertical
5	433.34	-58.28	17.75	-40.53	-13.00	-27.53	Vertical
6	498.73	-55.73	18.02	-37.71	-13.00	-24.71	Vertical

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The measurement Above 1GHz data as follows:

GSM 850							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
GSM_ Lowest Channel							
1	1648.400	-88.01	23.50	-64.51	-13.00	-51.51	Horizontal
2	2472.600	-87.93	29.47	-58.46	-13.00	-45.46	Horizontal
3	1648.400	-89.67	23.72	-65.95	-13.00	-52.95	Vertical
4	2472.600	-89.26	29.47	-59.79	-13.00	-46.79	Vertical
GSM_ Middle Channel							
1	1673.200	-89.02	23.50	-65.52	-13.00	-52.52	Horizontal
2	2509.800	-91.08	29.47	-61.61	-13.00	-48.61	Horizontal
3	1673.200	-91.02	23.72	-67.30	-13.00	-54.3	Vertical
4	2509.800	-94.00	29.47	-64.53	-13.00	-51.53	Vertical
GSM_ Highest Channel							
1	1697.600	-91.01	23.50	-67.51	-13.00	-54.51	Horizontal
2	2546.400	-92.77	29.47	-63.30	-13.00	-50.3	Horizontal
3	1697.600	-91.48	23.72	-67.76	-13.00	-54.76	Vertical
4	2546.400	-93.50	29.47	-64.03	-13.00	-51.03	Vertical

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PCS 1900							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
GSM_ Lowest Channel							
1	3700.400	-88.57	32.11	-56.46	-13.00	-43.46	Horizontal
2	5550.600	-88.05	33.21	-54.84	-13.00	-41.84	Horizontal
3	3700.400	-89.54	32.09	-57.45	-13.00	-44.45	Vertical
4	5550.600	-87.29	34.03	-53.26	-13.00	-40.26	Vertical
GSM_ Middle Channel							
1	3760.000	-83.93	32.11	-51.82	-13.00	-38.82	Horizontal
2	5640.000	-86.74	33.21	-53.53	-13.00	-40.53	Horizontal
3	3760.000	-91.24	32.09	-59.15	-13.00	-46.15	Vertical
4	5640.000	-87.67	34.03	-53.64	-13.00	-40.64	Vertical
GSM_ Highest Channel							
1	3819.600	-88.28	32.11	-56.17	-13.00	-43.17	Horizontal
2	5729.400	-87.76	33.21	-54.55	-13.00	-41.55	Horizontal
3	3819.600	-90.29	32.09	-58.20	-13.00	-45.2	Vertical
4	5729.400	-88.68	34.03	-54.65	-13.00	-41.65	Vertical

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WCDMA Band II							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
RMC 12.2kbps_ Lowest Channel							
1	3704.80	-83.58	31.09	-52.49	-13.00	-39.49	Horizontal
2	5557.20	-90.40	34.14	-56.26	-13.00	-43.26	Horizontal
3	3704.80	-81.42	33.13	-48.29	-13.00	-35.29	Vertical
4	5557.20	-86.46	32.66	-53.80	-13.00	-40.8	Vertical
RMC 12.2kbps_ Middle Channel							
1	3760.00	-80.10	31.09	-49.01	-13.00	-36.01	Horizontal
2	5640.00	-89.47	34.14	-55.33	-13.00	-42.33	Horizontal
3	3760.00	-80.48	33.13	-47.35	-13.00	-34.35	Vertical
4	5640.00	-84.90	32.66	-52.24	-13.00	-39.24	Vertical
RMC 12.2kbps_ Highest Channel							
1	3815.20	-83.68	31.09	-52.59	-13.00	-39.59	Horizontal
2	5722.80	-86.88	34.14	-52.74	-13.00	-39.74	Horizontal
3	3815.20	-82.51	33.13	-49.38	-13.00	-36.38	Vertical
4	5722.80	-83.58	32.66	-50.92	-13.00	-37.92	Vertical

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WCDMA Band IV							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
RMC 12.2kbps_ Lowest Channel							
1	3700.40	-90.60	32.11	-58.49	-13.00	-45.49	Horizontal
2	5550.60	-88.24	33.21	-55.03	-13.00	-42.03	Horizontal
3	3700.40	-90.91	32.09	-58.82	-13.00	-45.82	Vertical
4	5550.60	-87.87	34.03	-53.84	-13.00	-40.84	Vertical
RMC 12.2kbps_ Middle Channel							
1	3760.00	-89.40	32.11	-57.29	-13.00	-44.29	Horizontal
2	5640.00	-86.97	33.21	-53.76	-13.00	-40.76	Horizontal
3	3760.00	-90.67	32.09	-58.58	-13.00	-45.58	Vertical
4	5640.00	-87.56	34.03	-53.53	-13.00	-40.53	Vertical
RMC 12.2kbps_ Highest Channel							
1	3819.60	-90.14	32.11	-58.03	-13.00	-45.03	Horizontal
2	5729.40	-86.92	33.21	-53.71	-13.00	-40.71	Horizontal
3	3819.60	-89.62	32.09	-57.53	-13.00	-44.53	Vertical
4	5729.40	-86.19	34.03	-52.16	-13.00	-39.16	Vertical

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WCDMA Band V							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
RMC 12.2kbps_ Lowest Channel							
1	1652.800	-83.58	23.12	-60.46	-13.00	-47.46	Horizontal
2	2479.200	-86.38	28.47	-57.91	-13.00	-44.91	Horizontal
3	1652.800	-83.47	23.12	-60.35	-13.00	-47.35	Vertical
4	2479.200	-83.67	28.47	-55.20	-13.00	-42.20	Vertical
RMC 12.2kbps_ Middle Channel							
1	1672.800	-81.76	23.12	-58.64	-13.00	-45.64	Horizontal
2	2509.200	-83.47	28.47	-55.00	-13.00	-42.00	Horizontal
3	1672.800	-83.75	23.12	-60.63	-13.00	-47.63	Vertical
4	2509.200	-82.38	28.47	-53.91	-13.00	-40.91	Vertical
RMC 12.2kbps_ Highest Channel							
1	1693.200	-80.80	23.12	-57.68	-13.00	-44.68	Horizontal
2	2539.800	-81.78	28.47	-53.31	-13.00	-40.31	Horizontal
3	1693.200	-81.34	23.12	-58.22	-13.00	-45.22	Vertical
4	2539.800	-81.22	28.47	-52.75	-13.00	-39.75	Vertical

Note:

1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Result = Reading + Correct Factor.
3. Margin = Result – Limit
4. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test. Subsequently, only the worst case emissions are reported.

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Refer to the Report No.: AGC00408210801AP01A

APPENDIX B: PHOTOGRAPHS OF EUT

Refer to the Report No.: AGC00408210801AP03A

----END OF REPORT----

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Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the “Company”) solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the “Clients”).
2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15 days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

