



# FCC Test Report FCC ID: 2AT9T-3096

**Product:** Mobile Phone

Trade Mark: ulefone

Model Number: GQ3096

Family Model: Power Armor 13, Power Armor 13E, Power

Armor 13S

Report No.: STR210510003008E

#### **Prepared for**

Shenzhen Ulefone Technology Co., Ltd.
7 A01, Building A, Block 1, Anhongji Tianyao Plaza, Longhua District,
Shenzhen, 518110 China

## Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street Bao'an District, Shenzhen P.R. China Tel. 400-800-6106, 0755-2320 0050, 0755-2320 0090 Website:http://www.ntek.org.cn

Version.1.2 Page 1 of 19









Applicant's name:	Shenzhen Ulefone Technology Co., Ltd.
Address:	7 A01, Building A, Block 1, Anhongji Tianyao Plaza, Longhua District, Shenzhen, 518110 China
Manufacturer's Name:	Shenzhen Ulefone Technology Co., Ltd.
Address:	7 A01, Building A, Block 1, Anhongji Tianyao Plaza, Longhua District, Shenzhen, 518110 China
Product description	
Product name:	Mobile Phone
Model and/or type reference :	GQ3096
Family Model:	Power Armor 13, Power Armor 13E, Power Armor 13S
Standards:	FCC Part15B ANSI C63.4:2014
	is been tested by NTEK, and the test results show that the n compliance with Part 15 of FCC Rules. And it is applicable only n the report.
·	ced except in full, without the written approval of NTEK, this vised by NTEK, personnel only, and shall be noted in the revision:
	: : May 10. 2021 ~Jun 07, 2021
Date of Issue	·
Test Result	·
Testing Engine	eer: Buen lin
looming Engine	(Allen Liu)
Technical Man	Jasonches
Authorized Sig	(Jason Chen)  (natory:  (Alex Li)

Page 2 of 19 Version.1.2





Page
4
5
5
6
6
8
9
10
11
11
11
12
12
12
13
15
15
15
16 17
19

Version.1.2 Page 3 of 19





# 1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission							
Standard	Test Item	Limit	Judgment	Remark			
FCC Part15B	Conducted Emission	Class B	PASS				
ANSI C63.4: 2014	Radiated Emission	Class B	PASS				

# NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report
- (2) For client's request and manual description, the test will not be executed.

Version.1.2 Page 4 of 19





## 1.1 TEST FACILITY

Shenzhen NTEK Testing Technology Co., Ltd

Add.: 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District,

Shenzhen 518126 P.R. China.

IC-Registration The Certificate Registration Number is 9270A.

CAB identifier:CN0074

FCC- Accredited Test Firm Registration Number: 463705.

Designation Number: CN1184

#### 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $\mathbf{y} \pm \mathbf{U}$ , where expended uncertainty  $\mathbf{U}$  is based on a standard uncertainty multiplied by a coverage factor of  $\mathbf{k=2}$ , providing a level of confidence of approximately 95 %.

#### A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKC01	ANSI	150 KHz ~ 30MHz	±2.80dB	

#### B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKA01	ANSI	30MHz~1000MHz	±2.64dB	
		1GHz~6GHz	±2.40dB	
		6GHz~26.5GHz	±2.52dB	

Version.1.2 Page 5 of 19





# 2. GENERAL INFORMATION

# 2.1 GENERAL DESCRIPTION OF EUT

Equipment	Mobile Phone				
Trade Mark	ulefone	ulefone			
Model Name	GQ3096				
Family Model	Power Armor 13, Power	Armor 13E, Power Armor 13S			
Model Difference	All models are the same except the model name.	circuit and RF module,			
	The EUT is a Mobile Phone.				
Draduct Description	Connecting I/O port:	Micro USB, Earphone			
Product Description	Operation Frequency:	5.825GHz			
	Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.				
Power Source	DC 3.85V/13200mAh fro	m battery or DC 5V from Adapter.			
Adapter	Model: HJ-PD33W-US Input: 100-240V~50/60Hz 0.8A Output: 5.0V==3.0A OR 9.0V==3.0A OR 11.0V==3.0A 33.0W				
HW Version	S7-02				
SW Version	Power Armor 13_TF1_E	EA_V01			

Version.1.2 Page 6 of 19





## 2.1.1 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	USB Data Transmission
Mode 2	TF card Playing
Mode 3	REC
Mode 4	FM
Mode 5	GPS

For Conducted Test				
Final Test Mode Description				
Mode 1	USB Data Transmission			
Mode 2	TF card Playing			
Mode 3	REC			
Mode 4	FM			
Mode 5	GPS			

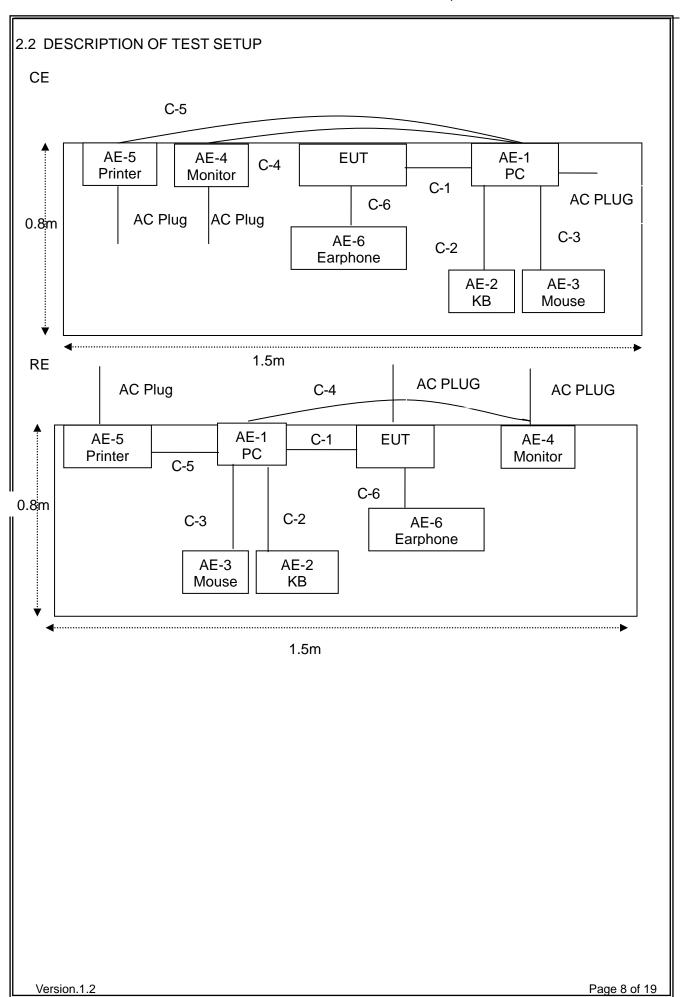
For Radiated Test			
Final Test Mode Description			
Mode 1	USB Data Transmission		
Mode 2	TF card Playing		
Mode 3	REC		
Mode 4	FM		
Mode 5	GPS		

Note: Final Test Mode: Through Pre-scan, find the mode 1 is the worst case. Only the worst case mode is recorded in the report.

Version.1.2 Page 7 of 19











## 2.3 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Brand	Model/Type No.	Series No.	Note
AE-1	PC	DELL	FT4Y23X	N/A	Peripherals
AE-2	KB	N/A	N/A	N/A	Peripherals
AE-3	Mouse	DELL	MS111-P	N/A	Peripherals
AE-4	Monitor	DELL	IN2020MB	N/A	Peripherals
AE-5	Printer	Canon	L11121E	N/A	Peripherals
AE-6	Earphone	N/A	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable	NO	NO	1.0m	
C-2	USB Cable	NO	NO	1.2m	
C-3	USB Cable	NO	NO	1.2m	
C-4	HDMI Cable	YES	YES	1.0m	
C-5	USB Cable	NO	ОИ	1.2m	
C-6	Earphone Cable	NO	NO	1.2m	

#### Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>"Length\_"</code> column.
- (3) "YES" means "shielded" "with core"; "NO" means "unshielded" "without core".

Version.1.2 Page 9 of 19





# 2.4 MEASUREMENT INSTRUMENTS LIST

Radiation Test equipment

Radiation Test equipment						
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n period
Spectrum Analyzer	Agilent	E4407B	MY4510804 0	2021.04.27	2022.04.26	1 year
Test Receiver	R&S	ESPI	101318	2021.04.27	2022.04.26	1 year
Bilog Antenna	TESEQ	CBL6111D	31216	2021.03.29	2022.03.28	1 year
50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2021.04.27	2022.04.26	1 year
Spectrum Analyzer	ADVANTEST		150900201	2021.04.27	2022.04.26	1 year
Horn Antenna	EM	EM-AH-101 80	2011071402	2021.03.29	2022.03.28	1 year
Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2021.04.27	2022.04.26	1 year
Amplifier	EMC	EMC05183 5SE	980246	2021.04.27	2022.04.26	1 year
Loop Antenna	ARA	PLA-1030/B	1029	2021.04.27	2022.04.26	1 year
Power Meter	DARE	RPR3006W	15I00041S NO84	2021.04.27	2022.04.26	1 year
Power Sensor	R&S	URV4-Z4	0395.1619. 05	2021.04.27	2022.04.26	1 year
Test Cable (30MHz-1GH z)	N/A	R-02	N/A	2019.06.28	2022.06.27	3 year
Cable(1G-40 GHz)	N/A	R-03	N/A	2019.06.28	2022.06.27	3 year
High Test Cable(1G-40 GHz)	N/A	R-04	N/A	2019.06.28	2022.06.27	3 year
Test Receiver	R&S	ESCI	101160	2021.04.27	2022.04.26	1 year
	Kind of Equipment Spectrum Analyzer Test Receiver Bilog Antenna 50Ω Coaxial Switch Spectrum Analyzer Horn Antenna Horn Ant Amplifier Loop Antenna Power Meter Power Sensor Test Cable (30MHz-1GH z) High Test Cable(1G-40 GHz) High Test Cable(1G-40 GHz)	Kind of EquipmentManufacturerSpectrum AnalyzerAgilentTest ReceiverR&SBilog AntennaTESEQ50Ω Coaxial SwitchAnritsuSpectrum AnalyzerADVANTESTHorn AntennaEMHorn AntSchwarzbeckAmplifierEMCLoop AntennaARAPower MeterDAREPower SensorR&STest Cable (30MHz-1GH z)N/AHigh Test Cable(1G-40 GHz)N/AHigh Test Cable(1G-40 GHz)N/A	Kind of EquipmentManufacturerType No.Spectrum AnalyzerAgilentE4407BTest ReceiverR&SESPIBilog AntennaTESEQCBL6111D50Ω Coaxial SwitchAnritsuMP59BSpectrum AnalyzerADVANTESTR3132Horn AntennaEMEM-AH-101 80Horn AntEMCBBHA 9170AmplifierEMCEMC05183 5SELoop AntennaARAPLA-1030/BPower MeterDARERPR3006WPower SensorR&SURV4-Z4Test Cable (30MHz-1GH z)N/AR-02High Test Cable(1G-40 GHz)N/AR-03High Test Cable(1G-40 GHz)N/AR-04	Kind of Equipment         Manufacturer         Type No.         Serial No.           Spectrum Analyzer         Agilent         E4407B         MY4510804 0           Test Receiver         R&S         ESPI         101318           Bilog Antenna         TESEQ         CBL6111D         31216           50Ω Coaxial Switch         Anritsu         MP59B         620026441 6           Spectrum Analyzer         ADVANTEST         R3132         150900201           Horn Antenna         EM         EM-AH-101 80         2011071402           Horn Ant         Schwarzbeck         BBHA 9170         9170-181           Amplifier         EMC         EMC05183 5SE         980246           Loop Antenna         ARA         PLA-1030/B         1029           Power Meter         DARE         RPR3006W         15100041S NO84           Power Sensor         R&S         URV4-Z4         0395.1619.05           Test Cable (30MHz-1GH Z)         N/A         R-02         N/A           High Test Cable (1G-40 GHz)         N/A         R-03         N/A           High Test Cable (1G-40 GHz)         N/A         R-04         N/A	Kind of Equipment         Manufacturer         Type No.         Serial No.         Last calibration           Spectrum Analyzer         Agilent         E4407B         MY4510804 0         2021.04.27           Test Receiver         R&S         ESPI         101318         2021.04.27           Bilog Antenna         TESEQ         CBL6111D         31216         2021.03.29           50Ω Coaxial Switch         Anritsu         MP59B         620026441 6         2021.04.27           Spectrum Analyzer         ADVANTEST         R3132         150900201         2021.04.27           Horn Antenna         EM         EM-AH-101 80         2011071402         2021.04.27           Horn Ant         Schwarzbeck         BBHA 9170         9170-181         2021.04.27           Amplifier         EMC         EMC05183 5SE         980246         2021.04.27           Loop Antenna         ARA         PLA-1030/B         1029         2021.04.27           Power Meter         DARE         RPR3006W         15100041S NO84         2021.04.27           Power Sensor         R&S         URV4-Z4         0395.1619 05         2021.04.27           Test Cable (30MHz-1GH z)         N/A         R-02         N/A         2019.06.28           Cable (	Kind of EquipmentManufacturerType No.Serial No.Last calibrationCalibrated untilSpectrum AnalyzerAgilentE4407BMY4510804 02021.04.272022.04.26Test ReceiverR&SESPI1013182021.04.272022.04.26Bilog AntennaTESEQCBL6111D312162021.03.292022.03.2850Ω Coaxial SwitchAnritsuMP59B620026441 62021.04.272022.04.26Spectrum AnalyzerADVANTESTR31321509002012021.04.272022.04.26Horn AntennaEMEM-AH-101 8020110714022021.03.292022.03.28Horn AntSchwarzbeckBBHA 91709170-1812021.04.272022.04.26AmplifierEMCEMC05183 5SE9802462021.04.272022.04.26Loop AntennaARAPLA-1030/B10292021.04.272022.04.26Power MeterDARERPR3006W151000415 NO842021.04.272022.04.26Power SensorR&SURV4-Z40395.1619 052021.04.272022.04.26Test Cable (30MHz-1GH Z)N/AR-02N/A2019.06.282022.06.27High Test Cable (1G-40 GHz)N/AR-03N/A2019.06.282022.06.27High Test Cable (1G-40 GHz)N/AR-04N/A2019.06.282022.06.27

AC Conduction Test equipment

Item	Kind of Equipment	Manufactu rer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n period
1	Test Receiver	R&S	ESCI	101160	2021.04.27	2022.04.26	1 year
2	LISN	R&S	ENV216	101313	2021.04.27	2022.04.26	1 year
3	LISN	SCHWAR ZBECK	NNLK 8129	8129245	2021.04.27	2022.04.26	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	620098370 4	2020.05.11	2023.05.10	3 year
5	Test Cable (9KHz-30MHz)	N/A	C01	N/A	2020.05.11	2023.05.10	3 year
6	Test Cable (9KHz-30MHz)	N/A	C02	N/A	2020.05.11	2023.05.10	3 year
7	Test Cable (9KHz-30MHz)	N/A	C03	N/A	2020.05.11	2023.05.10	3 year

Note: Each piece of equipment is scheduled for calibration once a year except the Test Cable which is scheduled for calibration every 3 years.

Version.1.2 Page 10 of 19





# 3. EMC EMISSION TEST

# 3.1 CONDUCTED EMISSION MEASUREMENT

# 3.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A	(dBuV)	Class B (dBuV)		
FREQUENCT (MINZ)	Quasi-peak	Average	Quasi-peak	Average	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	
0.50 -5.0	73.00	60.00	56.00	46.00	
5.0 -30.0	73.00	60.00	60.00	50.00	

## Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

Version.1.2 Page 11 of 19

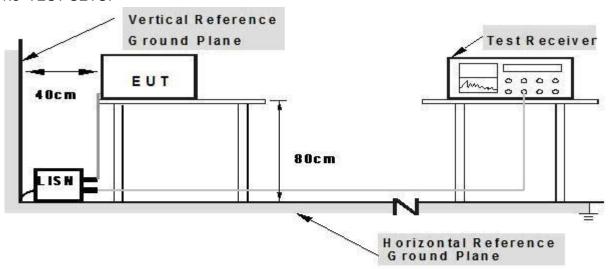




#### 3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

#### 3.1.3 TEST SETUP



Note: 1.Support units were connected to second LISM.

2.Both of LISMs (AMM) are 80 cm from EUT and at least 80

from other units and other metal planes

#### 3.1.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.

Version.1.2 Page 12 of 19





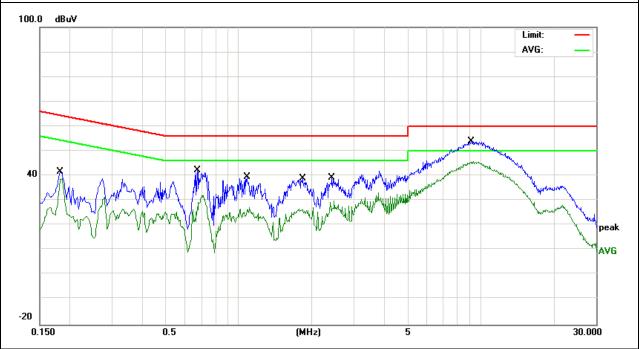
# 3.1.5 TEST RESULTS

EUT:	Mobile Phone	Model Name.:	GQ3096
Temperature:	24.5 ℃	Relative Humidity:	52%
Pressure:	1010hPa	Test Date:	2021-06-02
Test Mode:	Mode 1	Phase :	L
Test Voltage:	DC 5V from PC AC 120V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1819	32.22	9.55	41.77	64.39	-22.62	QP
0.1819	29.37	9.55	38.92	54.39	-15.47	AVG
0.6740	32.58	9.55	42.13	56.00	-13.87	QP
0.6740	22.49	9.55	32.04	46.00	-13.96	AVG
1.0820	30.01	9.56	39.57	56.00	-16.43	QP
1.0820	19.77	9.56	29.33	46.00	-16.67	AVG
1.8380	29.23	9.58	38.81	56.00	-17.19	QP
1.8380	18.87	9.58	28.45	46.00	-17.55	AVG
2.4340	29.58	9.58	39.16	56.00	-16.84	QP
2.4340	20.20	9.58	29.78	46.00	-16.22	AVG
9.1380	44.21	9.69	53.90	60.00	-6.10	QP
9.1380	36.02	9.69	45.71	50.00	-4.29	AVG

#### Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.



Version.1.2 Page 13 of 19



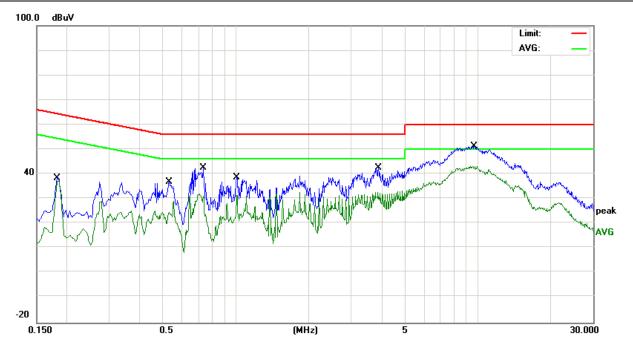


EUT:	Mobile Phone	Model Name. :	GQ3096
Temperature:	<b>24.5</b> ℃	Relative Humidity:	52%
Pressure:	1010hPa	Test Date:	2021-06-02
Test Mode:	Mode 1	Phase :	N
Test Voltage:	DC 5V from PC AC 120V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1819	28.93	9.54	38.47	64.39	-25.92	QP
0.1819	27.75	9.54	37.29	54.39	-17.10	AVG
0.5299	27.34	9.54	36.88	56.00	-19.12	QP
0.5299	16.79	9.54	26.33	46.00	-19.67	AVG
0.7340	32.88	9.54	42.42	56.00	-13.58	QP
0.7340	22.42	9.54	31.96	46.00	-14.04	AVG
1.0100	29.21	9.55	38.76	56.00	-17.24	QP
1.0100	18.90	9.55	28.45	46.00	-17.55	AVG
3.8980	32.96	9.59	42.55	56.00	-13.45	QP
3.8980	23.21	9.59	32.80	46.00	-13.20	AVG
9.6540	41.53	9.69	51.22	60.00	-8.78	QP
9.6540	33.49	9.69	43.18	50.00	-6.82	AVG

## Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.



Version.1.2 Page 14 of 19





#### 3.2 RADIATED EMISSION MEASUREMENT

#### 3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

	Class A (at 10m)	Class B (at 3m)	
FREQUENCY (MHz)	dBuV/m	dBuV/m	
30 ~ 88	39.0	40.0	
88 ~ 216	43.5	43.5	
216 ~ 960	46.5	46.0	
Above 960	49.5	54.0	

#### Notes:

- (1) The limit for radiated test was performed according to as following: FCC PART 15B /ICES-003.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

#### 3.2.2 TEST PROCEDURE

#### Test Arrangement for Radiated Emissions up to 1 GHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited test facility. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for quasi-peak detection (QP) at frequency below 1GHz.

#### Test Arrangement for Radiated Emissions above 1 GHz.

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna can be varied from one meter to four meters, the height of adjustment depends on the EUT height and the antenna 3dB beamwidth both, to detect the maximum value of the field strength.Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

Note: For the hand-held device, the EUT should be measured for all 3 axes and only the worst case is recorded in the report

Version.1.2 Page 15 of 19



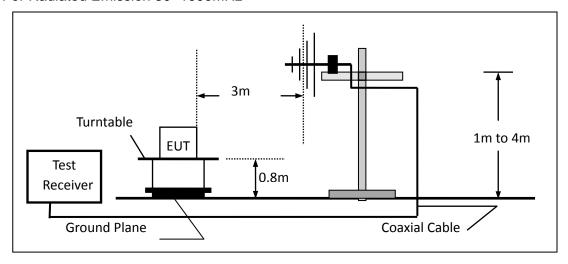


During the radiated emission test, according to ANSI C63.4-2014(4.2), the Spectrum Analyzer was set with the following configurations:

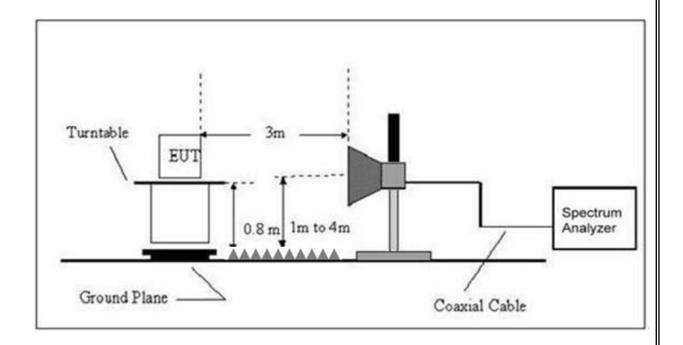
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
	Peak	1 MHz	3 MHz
Above 1000	Avg	1 MHz	10 Hz

## 3.2.3 TEST SETUP

For Radiated Emission 30~1000MHz



(B) Radiated Emission Test Set-Up Frequency Above 1GHz



Version.1.2 Page 16 of 19





# 3.2.4 TEST RESULTS

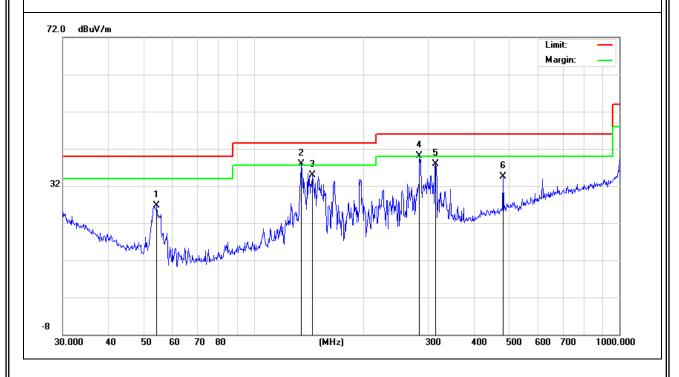
# TEST RESULTS (30~1000 MHz)

EUT:	Mobile Phone	Model Name:	GQ3096
Temperature:	24.5 ℃	Relative Humidity:	55%
Pressure:	1010 hPa	Test Date :	2021-06-02
Test Mode:	Mode 1	Polarization :	Horizontal
Test Power :	DC 5V from PC AC 120V/60Hz		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Н	54.2610	19.78	6.97	26.75	40.00	-13.25	QP
Н	135.0319	25.42	12.50	37.92	43.50	-5.58	QP
Н	144.3348	22.38	12.55	34.93	43.50	-8.57	QP
Н	283.9791	25.58	14.49	40.07	46.00	-5.93	QP
Н	314.3765	22.50	15.41	37.91	46.00	-8.09	QP
Н	480.5276	14.54	19.93	34.47	46.00	-11.53	QP

#### Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



Version.1.2 Page 17 of 19



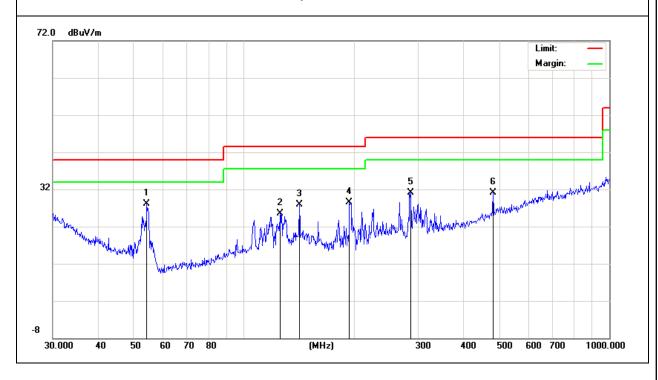


EUT:	Mobile Phone	Model Name :	GQ3096
Temperature:	24.5 ℃	Relative Humidity:	55%
Pressure:	1010 hPa	Test Date :	2021-06-02
Test Mode:	Mode 1	Polarization :	Vertical
Test Power :	DC 5V from PC AC 120V/60Hz		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Remark
V	54.2610	21.05	6.97	28.02	40.00	-11.98	QP
V	125.4457	13.34	12.07	25.41	43.50	-18.09	QP
V	141.8262	14.90	12.94	27.84	43.50	-15.66	QP
V	194.4534	18.59	9.95	28.54	43.50	-14.96	QP
V	285.9778	16.44	14.72	31.16	46.00	-14.84	QP
V	480.5276	11.19	19.93	31.12	46.00	-14.88	QP

# Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



Version.1.2 Page 18 of 19





# 3.2.5 TEST RESULTS(1000~18000MHz)

EUT:	Mobile Phone	Model Name :	GQ3096
Temperature:	<b>24.5</b> ℃	Relative Humidity:	55%
Pressure:	1010 hPa	Test Date :	2021-06-02
Test Mode:	Mode 1		
Test Power :	DC 5V from PC AC 120V/60Hz		

All the modulation modes have been tested, and the worst result was report as below:

Polar (H/V)	Frequency	Reading	Correct	Result	Limit	Over Limit	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
V	1127.5	73.07	-27.9	45.17	74	-28.83	peak
V	1127.5	61.56	-27.9	33.66	54	-20.34	AVG
V	1382.5	70.68	-26.8	43.88	74	-30.12	peak
V	1382.5	61.38	-26.8	34.58	54	-19.42	AVG
V	1595	71.73	-26.06	45.67	74	-28.33	peak
V	1595	58.75	-26.06	32.69	54	-21.31	AVG
V	2147.5	69.79	-22.41	47.38	74	-26.62	peak
V	2147.5	59.16	-22.41	36.75	54	-17.25	AVG
V	2487.5	72.32	-23.29	49.03	74	-24.97	peak
V	2487.5	60.51	-23.29	37.22	54	-16.78	AVG
V	4273.409	61.7	-15.65	46.05	74	-27.95	peak
V	4273.409	48.34	-15.65	32.69	54	-21.31	AVG
Н	1085	72.64	-28.31	44.33	74	-29.67	peak
Н	1085	58.53	-28.31	30.22	54	-23.78	AVG
Н	1425	69.72	-26.75	42.97	74	-31.03	peak
Н	1425	59.31	-26.75	32.56	54	-21.44	AVG
Н	2020	67.07	-23.14	43.93	74	-30.07	peak
Н	2020	56.59	-23.14	33.45	54	-20.55	AVG
Н	2955	64.82	-21.79	43.03	74	-30.97	peak
Н	2955	55.48	-21.79	33.69	54	-20.31	AVG
Н	4315	62.47	-15.45	47.02	74	-26.98	peak
Н	4315	53.03	-15.45	37.58	54	-16.42	AVG
Н	6652.5	58.45	-12.02	46.43	74	-27.57	peak
Н	6652.5	48.51	-12.02	36.49	54	-17.51	AVG

Remark:

Result = Reading + Correct, Over Limit= Result - Limit

Note: Only the worst results data points are reported in the report.

Other emissions are attenuated 20dB below the limit that does not recorded in the report.

**END OF REPORT** 

Version.1.2 Page 19 of 19