FCC Test Report FCC ID: 2AWCN-UNIGO

Product: Smart phone

Trade Mark: Uniquell

Model Number: UNI GO

Family Model: N/A

Report No.: S21123100904006

Prepared for

4G NET INC

3000 NW 72 AVENUE MIAMI FLORIDA 33122 UNITED STATES

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



TEST RESULT CERTIFICATION

Applicant's name 4G	NET IN	1C
---------------------	--------	----

Address: 3000 NW 72 AVENUE MIAMI FLORIDA 33122 UNITED STATES

Manufacturer's Name.....: SHENZHEN TR ELECTRONIC CO..LTD

Second floor A, Four floor B, Sailian Industrial Park , NO.50

Address Zhulong Tian Road, Fourth Industrial Zone,

Shuitiancommunity, Shiyan Street, Baoan District, Shenzhen City.

Product description

Product name.....: Smart phone

Model and/or type reference : UNI GO

Family Model..... N/A

FCC Part15B

Standards..... ANSI C63.4:2014

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with Part 15 of FCC Rules. And it is applicable only to the tested sample identified in the report.

This report shall not be reproduced except in full, without the written approval of NTEK, this document may be altered or revised by NTEK, personnel only, and shall be noted in the revision of the document.

Date of Test:

Date of Issue Feb 09. 2022

Test Result Pass

Testing Engineer: / Wen live

(Allen Liu)

Authorized Signatory:

(Alex Li)

Version.1.2 Page 2 of 19

Table of Contents	Page
1 . TEST SUMMARY	4
1.1 TEST FACILITY	5
1.2 MEASUREMENT UNCERTAINTY	5
2 . GENERAL INFORMATION	6
2.1 GENERAL DESCRIPTION OF EUT	6
2.2 DESCRIPTION OF TEST SETUP	8
2.3 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL	9
2.4 MEASUREMENT INSTRUMENTS LIST	10
3 . EMC EMISSION TEST	11
3.1 CONDUCTED EMISSION MEASUREMENT	11
3.1.1 POWER LINE CONDUCTED EMISSION	11
3.1.2 TEST PROCEDURE	12
3.1.3 TEST SETUP	12
3.1.4 EUT OPERATING CONDITIONS	12
3.1.5 TEST RESULTS	13
3.2 RADIATED EMISSION MEASUREMENT	15
3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT	15
3.2.2 TEST PROCEDURE	15
3.2.3 TEST SETUP	16
3.2.4 TEST RESULTS	17
3.2.5 TEST RESULTS(1000~18000MHz)	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	Smart phone			
Trade Mark	Uniqcell			
Model Name	UNI GO			
Family Model	N/A			
Model Difference	N/A			
Product Description Adapter	Manual, the EUT is cons	, features, or specification exhibited in User's idered as an ITE/Computing Device. More details ation, please refer to the User's Manual.		
Battery	DC 3.85V, 19.25Wh			
Power supply	DC 3.85V from battery or DC 5V from Adapter.			
HW Version	E64E_V2.0X			
SW Version	c64_xx08-frog-G67EUI_	G67EUI_20220105		

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.

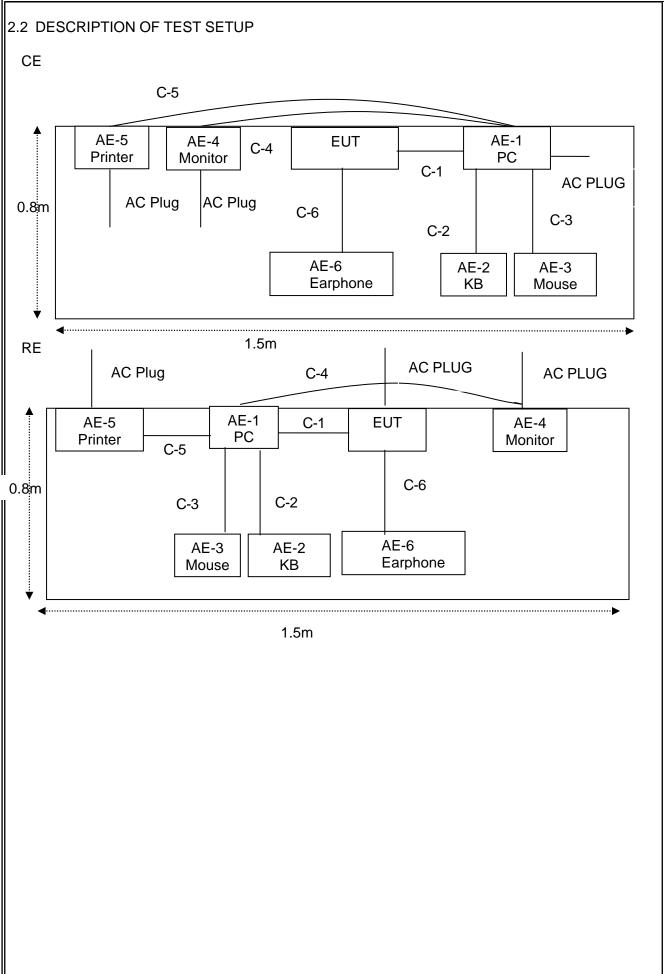
Pretest Mode	Description
Mode 1	USB Data Transmission
Mode 2	TF card Playing
Mode 3	REC
Mode 4	FM
Mode 5	GPS

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



Version.1.2 Page 8 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	ОИ	1.2m	
C-3	USB Cable	NO	NO	1.2m	
C-4	HDMI Cable	YES	YES	1.0m	
C-5	USB Cable	NO	NO	1.2m	
C-6	Earphone Cable	NO	NO	1.5m	

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

radio	alion rest equi	official .					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n period
1	Spectrum Analyzer	Agilent	E4407B	MY4510804 0	2021.04.27	2022.04.26	1 year
2	Test Receiver	R&S	ESPI	101318	2021.04.27	2022.04.26	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2021.03.29	2022.03.28	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2021.04.27	2022.04.26	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2021.04.27	2022.04.26	1 year
6	Horn Antenna	EM	EM-AH-101 80	2011071402	2021.03.29	2022.03.28	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2021.04.27	2022.04.26	1 year
8	Amplifier	EMC	EMC05183 5SE	980246	2021.04.27	2022.04.26	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2021.04.27	2022.04.26	1 year
10	Power Meter	DARE	RPR3006W	15I00041S NO84	2021.04.27	2022.04.26	1 year
11	Power Sensor	R&S	URV4-Z4	0395.1619. 05	2021.04.27	2022.04.26	1 year
12	Test Cable (30MHz-1GH z)	N/A	R-02	N/A	2019.06.28	2022.06.27	3 year
13	High Test Cable(1G-40 GHz)	N/A	R-03	N/A	2019.06.28	2022.06.27	3 year
14	High Test Cable(1G-40 GHz)	N/A	R-04	N/A	2019.06.28	2022.06.27	3 year
15	Test Receiver	R&S	ESCI	101160	2021.04.27	2022.04.26	1 year

AC Conduction Test equipment

Item	Kind of	Manufactu	Type No.	Serial No.	Last	Calibrated	Calibratio
	Equipment	rer			calibration	until	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.

Page 10 of 19 Version.1.2



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

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

	Class A (dBuV)		Class B (dBuV)	
FREQUENCY (MHz)	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

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			

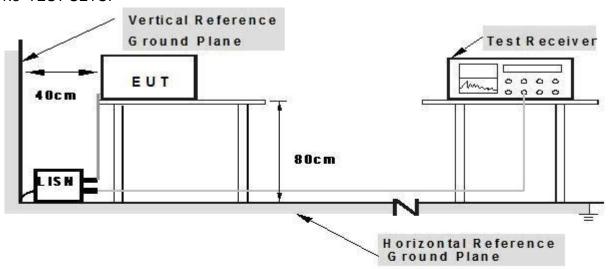
Version.1.2 Page 11 of 19



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 (AMN) 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

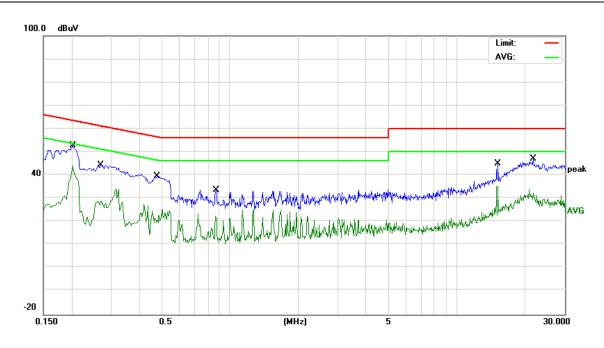


3.1.5 TEST RESULTS

EUT:	Smart phone	Model Name. :	UNI GO
Temperature:	24.5 ℃	Relative Humidity:	52%
Pressure:	1010hPa	Test Date:	2022-01-24
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
0.2020	43.14	9.63	52.77	63.52	-10.75	QP
0.2020	32.70	9.63	42.33	53.52	-11.19	AVG
0.2700	34.84	9.63	44.47	61.12	-16.65	QP
0.2700	24.39	9.63	34.02	51.12	-17.10	AVG
0.4780	29.85	9.64	39.49	56.37	-16.88	QP
0.4780	19.94	9.64	29.58	46.37	-16.79	AVG
0.8700	23.74	9.74	33.48	56.00	-22.52	QP
0.8700	13.58	9.74	23.32	46.00	-22.68	AVG
15.1579	35.08	9.83	44.91	60.00	-15.09	QP
15.1579	21.19	9.83	31.02	50.00	-18.98	AVG
21.7860	37.21	9.86	47.07	60.00	-12.93	AVG
21.7860	27.29	9.86	37.15	50.00	-12.85	QP

Remark:



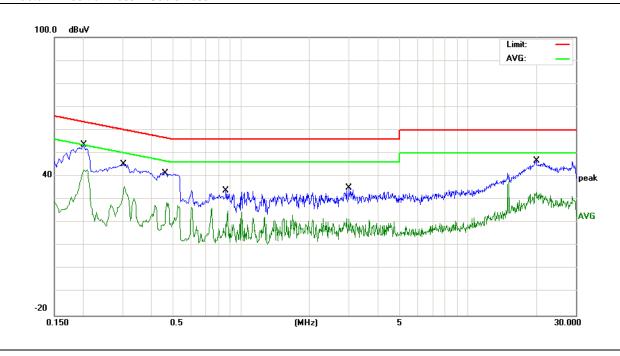
Page 13 of 19 Version.1.2

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

Certificate #4298.01						
EUT:	Smart phone	Model Name.:	UNI GO			
Temperature:	24.5 ℃	Relative Humidity:	52%			
Pressure:	1010hPa	Test Date:	2022-01-24			
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
0.2020	44.06	9.63	53.69	63.52	-9.83	QP
0.2020	33.70	9.63	43.33	53.52	-10.19	AVG
0.3020	35.49	9.66	45.15	60.19	-15.04	QP
0.3020	25.64	9.66	35.30	50.19	-14.89	AVG
0.4700	31.58	9.73	41.31	56.51	-15.20	QP
0.4700	21.53	9.73	31.26	46.51	-15.25	AVG
0.8580	24.06	9.69	33.75	56.00	-22.25	QP
0.8580	12.96	9.69	22.65	46.00	-23.35	AVG
2.9820	25.24	9.72	34.96	56.00	-21.04	QP
2.9820	24.44	9.72	34.16	46.00	-11.84	AVG
20.0900	36.93	9.75	46.68	60.00	-13.32	QP
20.0900	26.58	9.75	36.33	50.00	-13.67	AVG

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



Page 14 of 19 Version.1.2



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

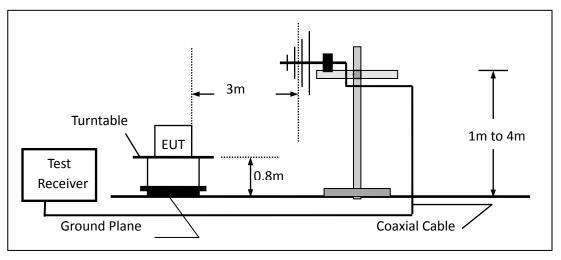
Version.1.2 Page 15 of 19

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

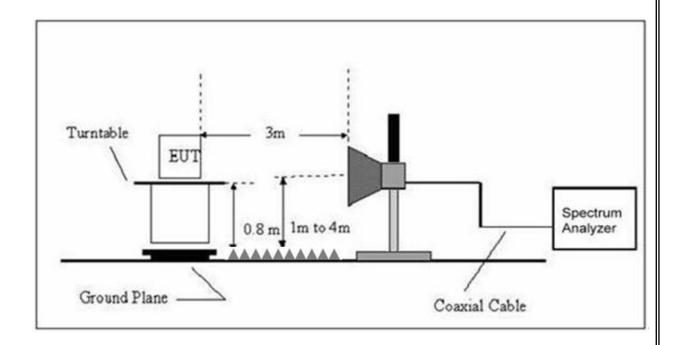
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
	Peak	1 MHz	3 MHz
Above 1000	Avg	1 MHz	10 Hz

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

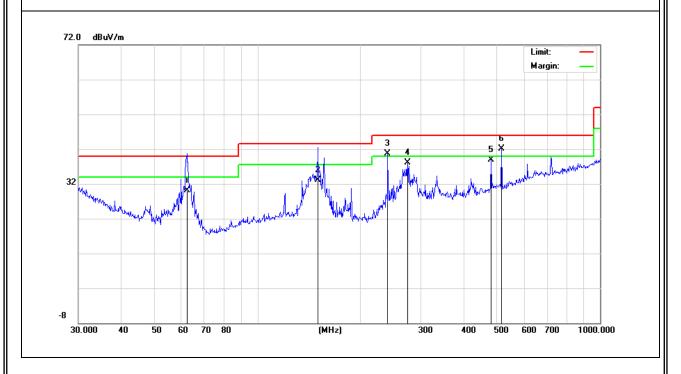
TEST RESULTS (30~1000 MHz)

EUT:	Smart phone	Model Name:	UNI GO
Temperature:	24.5 ℃	Relative Humidity:	55%
Pressure:	1010 hPa	Test Date :	2022-01-24
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)	rterria it
Н	62.2128	18.64	11.46	30.10	40.00	-9.90	QP
Н	150.0108	15.21	17.99	33.20	43.50	-10.30	QP
Н	239.9874	23.01	17.76	40.77	46.00	-5.23	QP
Н	274.1938	19.01	19.11	38.12	46.00	-7.88	QP
Н	480.5276	14.26	24.59	38.85	46.00	-7.15	QP
Н	515.4374	16.81	25.31	42.12	46.00	-3.88	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



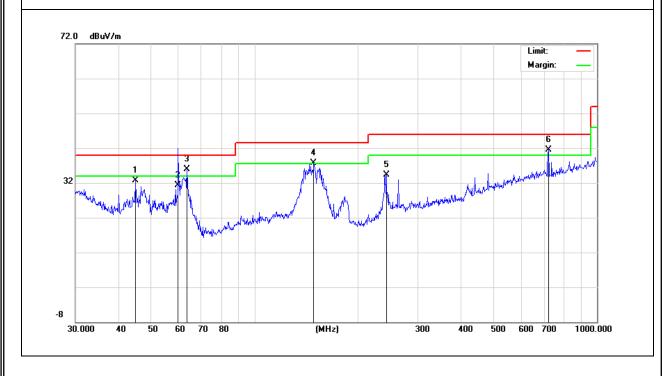
Version.1.2 Page 17 of 19

EUT:	Smart phone	Model Name :	UNI GO
Temperature:	24.5 ℃	Relative Humidity:	55%
Pressure:	1010 hPa	Test Date :	2022-01-24
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)	
V	44.9004	16.09	16.64	32.73	40.00	-7.27	QP
V	59.8588	20.17	11.23	31.40	40.00	-8.60	QP
V	63.5356	24.35	11.61	35.96	40.00	-4.04	QP
V	148.9625	19.65	17.97	37.62	43.50	-5.88	QP
V	242.5253	16.34	17.91	34.25	46.00	-11.75	QP
V	721.7259	13.41	28.19	41.60	46.00	-4.40	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



Version.1.2 Page 18 of 19



3.2.5 TEST RESULTS(1000~18000MHz)

EUT:	Smart phone	Model Name :	UNI GO
Temperature:	24.5 ℃	Relative Humidity:	55%
Pressure:	1010 hPa	Test Date :	2022-01-24
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)	remark
V	1255.000	40.95	-1.57	39.38	74.00	-34.62	peak
V	1255.000	30.90	-1.57	29.33	54.00	-24.67	AVG
V	1637.500	40.15	0.22	40.37	74.00	-33.63	peak
V	1637.500	29.80	0.22	30.02	54.00	-23.98	AVG
V	1850.000	39.80	0.84	40.64	74.00	-33.36	peak
V	1850.000	29.31	0.84	30.15	54.00	-23.85	AVG
V	2955.000	40.11	4.78	44.89	74.00	-29.11	peak
V	2955.000	29.37	4.78	34.15	54.00	-19.85	AVG
V	4230.000	38.12	6.68	44.80	74.00	-29.20	peak
V	4230.000	27.54	6.68	34.22	54.00	-19.78	AVG
V	5377.500	35.77	7.67	43.44	74.00	-30.56	peak
V	5377.500	25.58	7.67	33.25	54.00	-20.75	AVG
Н	1255.000	40.85	-1.57	39.28	74.00	-34.72	peak
Н	1255.000	30.90	-1.57	29.33	54.00	-24.67	AVG
Н	1722.500	39.61	0.48	40.09	74.00	-33.91	peak
Н	1722.500	29.54	0.48	30.02	54.00	-23.98	AVG
Н	2317.500	40.29	2.15	42.44	74.00	-31.56	peak
Н	2317.500	30.00	2.15	32.15	54.00	-21.85	AVG
Н	2955.000	40.56	4.78	45.34	74.00	-28.66	peak
Н	2955.000	30.55	4.78	35.33	54.00	-18.67	AVG
Н	3422.500	36.28	5.65	41.93	74.00	-32.07	peak
Н	3422.500	25.37	5.65	31.02	54.00	-22.98	AVG
Н	4272.500	37.62	6.76	44.38	74.00	-29.62	peak
Н	4272.500	27.39	6.76	34.15	54.00	-19.85	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

Page 19 of 19 Version.1.2