



Compliance Certification Services (Shenzhen) Inc.

**FCC 47 CFR PART 22, PART 24, PART 27  
RSS-130, RSS-132, RSS-133, RSS-139, RSS-199**

## **TEST REPORT**

**For**

**Smart Phone**

**Model: ELTP18A04**

**Brand: GlocalMe**

**Test Report Number:**

**C180811Z01-RP2**

Issued for

**HONGKONG UCLOUDLINK NETWORK TECHNOLOGY LIMITED**

**Suite 603, 6/F, Laws Commercial Plaza, 788 Cheung Sha Wan Road,  
Kowloon, Hong Kong, China**

Issued by:

**Compliance Certification Services (Shenzhen) Inc.**

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**Issued Date: Aug 11, 2018**



Certificate Number: 2861.01

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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	Aug 11, 2018	Initial Issue	ALL	Anna Liu



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## 1. TEST RESULT CERTIFICATION

<b>Product</b>	Smart Phone
<b>Model</b>	ELTP18A04
<b>Brand</b>	GlocalMe
<b>Tested</b>	Aug 10, 2018
<b>Applicant</b>	HONGKONG U-CLOUDLINK NETWORK TECHNOLOGY LIMITED
<b>Manufacturer</b>	Suite 603, 6/F, Laws Commercial Plaza, 788 Cheung Sha Wan Road, Kowloon, Hong Kong, China

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC 47 CFR Part 2.1053, Part 22.917, Part 24.238, Part 27.53	PASS
RSS-130, RSS-132, RSS-133, RSS-139, RSS-199	PASS

### We hereby certify that:

The above equipment was tested by Compliance Certification Services (Shenzhen) Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.26:2015 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 2.1053, Part 22.917, Part 24.238, Part 27.53, RSS-130, RSS-132, RSS-133, RSS-139, RSS-199.

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

**Approved by:**

**Reviewed by:**

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Eve Wang  
Supervisor of EMC Dept.  
Compliance Certification Services (Shenzhen) Inc.

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Nancy Fu  
Supervisor of Report Dept.  
Compliance Certification Services (Shenzhen) Inc.



## 2. EUT DESCRIPTION

<b>Product</b>	Smart Phone
<b>Model Number</b>	ELTP18A04
<b>Brand</b>	GlocalMe
<b>Model Discrepancy</b>	N/A
<b>Identify Number</b>	C180811Z01-RP2
<b>Received Date</b>	Aug 11, 2018
<b>Power Supply</b>	3.85Vdc 3400mAh from Li-ion Battery
<b>Frequency Range</b>	GSM850: UL: 824MHz~848MHz, DL: 869MHz~894MHz PCS1900: UL: 1850MHz~1910, DL: 1930MHz~1990MHz WCDMA Band II: UL: 1852.4MHz~1907.6MHz, DL: 1932.6MHz~1987.4MHz WCDMA Band IV: UL: 1712.4MHz~1752.6MHz, DL: 2112.6MHz~2152.4MHz WCDMA Band V: UL: 826.4MHz~846.6MHz, DL: 871.6MHz~1891.4MHz FDD Band 2: UL: 1850.7MHz~1900.0MHz, DL: 1930.7MHz~1980.0MHz FDD Band 4: UL: 1710.7MHz~1755.0MHz, DL: 2110.7MHz~2150.0MHz FDD Band 5: UL: 824.7MHz~844.0MHz, DL: 869.7MHz~889.0MHz FDD Band 7: UL: 2502.5MHz~2560MHz, DL: 2622.5MHz~2680.0MHz FDD Band 12: UL: 699.7MHz~711.0MHz, DL: 729.7MHz~741.0MHz FDD Band 13: UL: 779.5MHz~782.0MHz, DL: 748.5MHz~751.0MHz FDD Band 17: UL: 706.5MHz~711.0MHz, DL: 736.5MHz~741.0MHz FDD Band 26: UL: 814.7 MHz~823.3 MHz, DL: 859.7MHz~868.3 MHz
<b>Number of Channels</b>	Please see the clause 3.1
<b>Antenna Specification</b>	GSM 850: -2.51dBi PCS 1900: 0.47dBi WCDMA II: 0.47dBi WCDMA IV: 0.22dBi WCDMA V: -2.51dBi FDD Band 2: 0.47dBi FDD Band 4: 0.22dBi FDD Band 5: -2.51dBi FDD Band 7: -0.68dBi FDD Band 12: -3.72dBi FDD Band 13: -4.36dBi



	FDD Band 17: -3.72dBi FDD Band 26: -2.19dBi
<b>Hardware Version</b>	P3S18_TSV1.0.000.001.180720
<b>Software Version</b>	P3_MB_PCB_VA

**Note:** This submittal(s) (test report) is intended for FCC ID: **2AC88-ELTP18A04** and IC: **24230-ELTP18A04** filing to comply with Section FCC 47 CFR Part 2.1053, Part 22.917, Part 24.238, Part 27.53, RSS-130, RSS-132, RSS-133, RSS-139, RSS-199 Radiated Spurious Emissions.



### 3. TEST METHODOLOGY

#### 3.1 DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

Use engineering mode to control EUT to maintain continuous transmission and reception mode.

Test Frequency:

PCS 1900	
Channel	Frequency (MHz)
512	1850.20
661	1880.00
810	1909.80

WCDMA Band II	
Channel	Frequency (MHz)
9262	1852.40
9400	1880.00
9538	1907.60

Band 2			
Test channel	Bandwidth(MHz)	N <sub>UL</sub>	Frequency of Uplink (MHz)
Low Range	1.4	18607	1850.70
	3	18615	1851.50
	5	18625	1852.50
	10	18650	1855.00
	15	18675	1857.50
	20	18700	1860.00
Mid Range	1.4/3/5/10/15/20	18900	1880.00
High Range	1.4	19193	1909.30
	3	19185	1908.50
	5	19175	1907.50
	10	19150	1905.00
	15	19125	1902.50
	20	19100	1900.00

Band 7			
Test channel	Bandwidth(MHz)	N <sub>UL</sub>	Frequency of Uplink (MHz)
Low Range	5	20775	2502.50
	10	20800	2505.00
	15	20825	2507.50
	20	20850	2510.00
Mid Range	5/10/15/20	21100	2535.00
High Range	5	21425	2567.50
	10	21400	2565.00
	15	21375	2562.50
	20	21350	2560.00



### 3.2 SETUP CONFIGURATION OF EUT

See test photographs.

### 3.3 SUPPORT EQUIPMENT

No.	Equipment	Model No.	Serial No.	FCC ID	Brand	Data Cable	Power Cord
/	/	/	/	/	/	/	/

**Notes:**

*Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.*





## 4. FACILITIES AND ACCREDITATIONS

### 4.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

**No.10-1, Mingkeda Logistics Park, No.18 Huanguan South RD., Guan Lan Town, Longhuaxin District, Shenzhen, China**

The sites are constructed in conformance with the requirements of ANSI C63.10:2013, ANSI C63.7 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

### 4.2 ACCREDITATIONS

Our laboratories are accredited and approved by the following accreditation body according to ISO/IEC 17025.

<b>USA</b>	A2LA
<b>China</b>	CNAS

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

<b>USA</b>	FCC
<b>Japan</b>	VCCI(C-4815, R-4320, T-2317, G-10624)
<b>Canada</b>	INDUSTRY CANADA

Copies of granted accreditation certificates are available for downloading from our web site, <http://www.ccssz.com>

### 4.3 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Parameter	Uncertainty
Radiated Emission, 30 to 200 MHz Test Site : 966(2)	+/-3.6880dB
Radiated Emission, 200 to 1000 MHz Test Site : 966(2)	+/-3.6695dB
Radiated Emission, 1 to 8 GHz	+/-5.1782dB
Radiated Emission, 8 to 18 GHz	+/-5.2173dB
Radiated Emission, 18 to 26 GHz	+/-5.6512dB

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

The measured result is above (below) the specification limit by a margin less than the measurement uncertainty; it is therefore not possible to state compliance based on the 95% level of confidence. However, the result indicates that compliance (non-compliance) is more probable than non-compliance) with the specification limit.



## 5. FCC PART 22/24/27 and RSS 130/132/133/139/199 REQUIREMENTS

### 5.1 RADIATED EMISSIONS

#### LIMIT

GSM/WCDMA Band II/LTE FDD Band 2: -13dBm

LTE FDD Band 7: -25dBm

#### TEST PROCEDURE

1. EUT was placed on a 1.50 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.50m. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.
2. A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
3. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=1MHz, VBW=3MHz, and the maximum value of the receiver should be recorded as (Pr).
4. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (PMea) is applied to the input of the substitution antenna, and adjusts the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
5. An amplifier should be connected to the Signal Source output port. And the cable should be connecting between the Amplifier and the Substitution Antenna. The cable loss (Pcl) ,the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should be recorded after test.
6. The measurement results are obtained as described below:  
Power(EIRP)=PMea- PAg - Pcl + Ga  
We used SMF100A microwave signal generator which signal level can up to 33dBm,so we not used power Amplifier for substitution test; The measurement results are amend as described below:



Power(EIRP)=PMea- Pcl + Ga

7. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.  
ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP- 2.15dBi.
8. Test frequency range should extend to 10th harmonic of highest fundamental frequency.

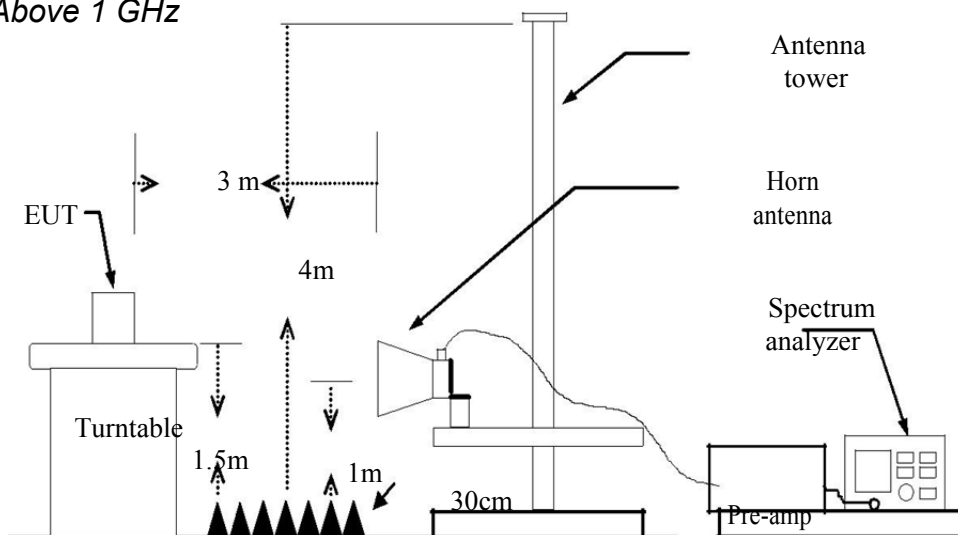
**MEASUREMENT EQUIPMENT USED**

Radiated Emission Test Site 966(2)					
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
PSA Series Spectrum Analyzer	Agilent	N9010A	MY52221469	02/18/2018	02/19/2019
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100783	02/18/2018	02/19/2019
Amplifier	EMEC	EM330	060661	02/17/2018	03/16/2019
High Noise Amplifier	Agilent	8449B	3008A01838	02/20/2018	02/19/2019
Loop Antenna	COM-POWER	AL-130	121044	09/25/2017	09/24/2018
Bilog Antenna	SCHAFFNER	CBL6143	5082	02/20/2018	02/19/2019
Horn Antenna	SCHWARZBECK	BBHA9120	D286	02/20/2018	02/19/2019
Board-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170-497	02/20/2018	02/19/2019
Turn Table	N/A	N/A	N/A	N.C.R	N.C.R
Antenna Tower	SUNOL	TLT2	N/A	N.C.R	N.C.R
Controller	Sunol Sciences	SC104V	022310-1	N.C.R	N.C.R
Controller	CT	N/A	N/A	N.C.R	N.C.R
Temp. / Humidity Meter	Anymetre	JR913	N/A	02/202018	02/19/2019
Test S/W	FARAD	LZ-RF / CCS-SZ-3A2			

**Remark:** Each piece of equipment is scheduled for calibration once a year.

**Test Configuration**

Above 1 GHz





## **TEST PROCEDURE**

### **1) Sequence of testing above 18 GHz**

#### **Setup:**

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

#### **Pre measurement:**

- The antenna is moved spherical over the EUT in different polarisations of the antenna.

#### **Final measurement:**

- The final measurement will be performed at the position and antenna orientation for all detected emissions that were found during the premeasurements with Peak and Average detector.
- The final levels, frequency, measuring time, bandwidth, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.



## TEST RESULTS

### Above 18GHz

**Only show worse case**

PCS 1900					
Channel	Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
		Polarization	Level (dBm)		
512	18360.51	Vertical	-46.75	-13.00	Pass
	19203.41	Vertical	-48.16		
	19175.24	Horizontal	-50.92		
	19446.87	Horizontal	-53.01		
661	18224.58	Vertical	-45.72		
	18301.70	Vertical	-53.17		
	19480.85	Horizontal	-45.68		
	19675.74	Horizontal	-53.85		
810	18245.98	Vertical	-39.85		
	19259.61	Vertical	-42.08		
	19282.57	Horizontal	-46.97		
	19641.37	Horizontal	-51.27		

WCDMA Band II					
Channel	Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
		Polarization	Level (dBm)		
9262	18996.22	Vertical	-44.55	-13.00	Pass
	19640.83	Vertical	-50.36		
	18157.27	Horizontal	-48.73		
	19585.78	Horizontal	-51.68		
9400	18178.43	Vertical	-43.38		
	19056.81	Vertical	-53.74		
	18894.32	Horizontal	-43.88		
	18530.22	Horizontal	-50.31		
9538	18283.50	Vertical	-39.67		
	19146.36	Vertical	-54.46		
	18893.59	Horizontal	-43.03		
	19891.50	Horizontal	-47.87		



LTE FDD Band 2 Radiated Spurious Emissions							
Bandwidth	Modulation	Test Channel	Spurious Emission			Limit (dBm)	Result
			Frequency	Level (dBm)	Polarization		
1.4MHz	QPSK	L	18774.46	-40.62	Vertical	-13.00	Pass
			19777.24	-47.20	Vertical		
			18981.64	-47.58	Horizontal		
			19556.87	-54.02	Horizontal		
1.4MHz	QPSK	M	19001.55	-42.27	Vertical	-13.00	Pass
			19215.02	-47.05	Vertical		
			19469.71	-40.40	Horizontal		
			19715.78	-53.78	Horizontal		
1.4MHz	QPSK	H	18036.29	-41.70	Vertical	-13.00	Pass
			19429.59	-47.75	Vertical		
			18576.08	-41.49	Horizontal		
			18949.85	-54.48	Horizontal		
3MHz	QPSK	L	18475.44	-40.43	Vertical	-13.00	Pass
			19304.77	-48.02	Vertical		
			18223.66	-42.22	Horizontal		
			19026.36	-54.76	Horizontal		
3MHz	QPSK	M	18416.91	-40.38	Vertical	-13.00	Pass
			18561.23	-48.40	Vertical		
			18034.58	-40.69	Horizontal		
			19272.35	-54.38	Horizontal		
3MHz	QPSK	H	18005.65	-40.93	Vertical	-13.00	Pass
			18334.36	-49.59	Vertical		
			19497.39	-42.56	Horizontal		
			19750.73	-52.11	Horizontal		



LTE FDD Band 2 Radiated Spurious Emissions							
Bandwidth	Modulation	Test Channel	Spurious Emission			Limit (dBm)	Result
			Frequency	Level (dBm)	Polarization		
5MHz	QPSK	L	18539.61	-42.05	Vertical	-13.00	Pass
			19596.18	-47.86	Vertical		
			18872.40	-47.48	Horizontal		
			19588.59	-53.76	Horizontal		
5MHz	QPSK	M	18207.79	-42.37	Vertical	-13.00	Pass
			19224.35	-47.32	Vertical		
			18751.79	-42.34	Horizontal		
			19480.40	-53.33	Horizontal		
5MHz	QPSK	H	18228.80	-41.20	Vertical	-13.00	Pass
			19583.55	-48.44	Vertical		
			18041.30	-42.17	Horizontal		
			18504.88	-54.55	Horizontal		
10MHz	QPSK	L	18197.36	-40.26	Vertical	-13.00	Pass
			19082.49	-48.15	Vertical		
			18892.08	-41.35	Horizontal		
			19801.16	-53.20	Horizontal		
10MHz	QPSK	M	18536.92	-40.92	Vertical	-13.00	Pass
			19401.73	-48.26	Vertical		
			19573.54	-42.78	Horizontal		
			19781.10	-54.31	Horizontal		
10MHz	QPSK	H	19093.17	-41.29	Vertical	-13.00	Pass
			19581.21	-47.27	Vertical		
			18827.67	-41.91	Horizontal		
			19378.67	-54.69	Horizontal		



LTE FDD Band 2 Radiated Spurious Emissions							
Bandwidth	Modulation	Test Channel	Spurious Emission			Limit (dBm)	Result
			Frequency	Level (dBm)	Polarization		
15MHz	QPSK	L	18969.20	-41.53	Vertical	-13.00	Pass
			19826.77	-47.11	Vertical		
			18490.04	-45.79	Horizontal		
			18994.59	-52.12	Horizontal		
15MHz	QPSK	M	19152.86	-42.75	Vertical	-13.00	Pass
			19764.12	-47.05	Vertical		
			18836.21	-41.32	Horizontal		
			19584.66	-53.49	Horizontal		
15MHz	QPSK	H	18721.42	-41.85	Vertical	-13.00	Pass
			19834.66	-48.89	Vertical		
			19535.14	-41.31	Horizontal		
			19724.72	-54.36	Horizontal		
20MHz	QPSK	L	18651.41	-41.15	Vertical	-13.00	Pass
			18989.41	-48.44	Vertical		
			18029.75	-42.68	Horizontal		
			18386.77	-52.69	Horizontal		
20MHz	QPSK	M	18695.86	-41.39	Vertical	-13.00	Pass
			19539.26	-47.67	Vertical		
			18207.54	-42.06	Horizontal		
			18454.61	-53.77	Horizontal		
20MHz	QPSK	H	18528.43	-42.93	Vertical	-13.00	Pass
			19066.93	-47.71	Vertical		
			19267.37	-41.24	Horizontal		
			19640.06	-54.27	Horizontal		





LTE FDD Band 7 Radiated Spurious Emissions							
Bandwidth	Modulation	Test Channel	Spurious Emission			Limit (dBm)	Result
			Frequency	Level (dBm)	Polarization		
5MHz	QPSK	L	18002.60	-40.48	Vertical	-25.00	Pass
			22152.57	-49.18	Vertical		
			19023.60	-45.62	Horizontal		
			25079.90	-52.13	Horizontal		
5MHz	QPSK	M	18049.23	-41.60	Vertical	-25.00	Pass
			22092.18	-49.15	Vertical		
			20172.96	-42.05	Horizontal		
			25096.50	-54.15	Horizontal		
5MHz	QPSK	H	18256.31	-41.84	Vertical	-25.00	Pass
			21216.35	-48.31	Vertical		
			21121.28	-42.14	Horizontal		
			25094.72	-53.62	Horizontal		
10MHz	QPSK	L	19010.90	-40.12	Vertical	-25.00	Pass
			20199.59	-48.60	Vertical		
			20011.16	-42.88	Horizontal		
			25090.58	-54.75	Horizontal		
10MHz	QPSK	M	18235.03	-41.33	Vertical	-25.00	Pass
			24123.07	-47.73	Vertical		
			21120.01	-41.48	Horizontal		
			25008.41	-54.31	Horizontal		
10MHz	QPSK	H	18272.40	-42.72	Vertical	-25.00	Pass
			20093.00	-47.49	Vertical		
			22137.25	-40.57	Horizontal		
			25018.77	-52.31	Horizontal		



LTE FDD Band 7 Radiated Spurious Emissions							
Bandwidth	Modulation	Test Channel	Spurious Emission			Limit (dBm)	Result
			Frequency	Level (dBm)	Polarization		
15MHz	QPSK	L	19148.19	-42.68	Vertical	-25.00	Pass
			20076.31	-49.24	Vertical		
			20059.23	-47.14	Horizontal		
			25028.07	-53.88	Horizontal		
15MHz	QPSK	M	19267.13	-42.01	Vertical	-25.00	Pass
			22061.24	-48.80	Vertical		
			24086.35	-41.09	Horizontal		
			24094.15	-54.70	Horizontal		
15MHz	QPSK	H	19277.25	-42.19	Vertical	-25.00	Pass
			21235.06	-48.89	Vertical		
			22111.56	-40.63	Horizontal		
			24072.68	-53.73	Horizontal		
20MHz	QPSK	L	18021.60	-40.38	Vertical	-25.00	Pass
			24153.83	-49.49	Vertical		
			20022.19	-41.52	Horizontal		
			24082.52	-53.85	Horizontal		
20MHz	QPSK	M	19124.48	-40.16	Vertical	-25.00	Pass
			20084.28	-49.56	Vertical		
			22090.38	-40.05	Horizontal		
			24078.05	-52.18	Horizontal		
20MHz	QPSK	H	19084.02	-41.24	Vertical	-25.00	Pass
			24021.85	-49.41	Vertical		
			24123.40	-41.46	Horizontal		
			25011.03	-52.03	Horizontal		



**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Spectrum setting:
  - a. Peak Setting 1GHz - 26GHz, RBW = 1MHz, VBW = 3MHz, Sweep time = auto.
  - b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = auto.
5. Frequency (MHz). = Emission frequency in MHz  
Reading (dB $\mu$ V/m) = Uncorrected Analyzer / Receiver Reading  
Correction Factor (dB) = Antenna factor + Cable loss – Amplifier gain  
Limit (dB $\mu$ V/m) = Limit stated in standard  
Margin (dB) = Result (dB $\mu$ V/m)- Limit (dB $\mu$ V/m)  
Peak =Peak Reading  
AVG. =Average Reading  
Remark = Mark Peak Reading or Average Reading

**TEST Photographs**

