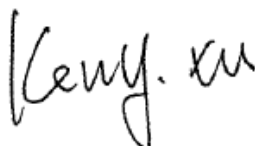


# TEST REPORT

**Application No.:** SZCR2104020473AT(ZR/2021/30022)  
**Applicant:** HMD Global Oy  
**Address of Applicant:** Bertel Jungin aukio 9, 02600 Espoo, Finland  
**Manufacturer:** Development Zone, Qingdao, China  
**Address of Manufacturer:** Bertel Jungin aukio 9, 02600 Espoo, Finland  
**Equipment Under Test (EUT):**  
**EUT Name:** Smart Phone  
**Model No.:** TA-1371  
**Trade Mark:** NOKIA  
**FCC ID:** 2AJOTTA-1371  
**Standard(s) :** 47 CFR Part 90  
**Date of Receipt:** 2021-04-12  
**Date of Test:** 2021-04-14 to 2021-04-28  
**Date of Issue:** 2021-04-29

<b>Test Result:</b>	<b>Pass*</b>
---------------------	--------------

\* In the configuration tested, the EUT complied with the standards specified above.


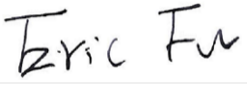


Keny Xu  
 EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-04-29		Original

<b>Authorized for issue by:</b>			
			
		_____ Leo Lai/Project Engineer	
			
		_____ Eric Fu/Reviewer	



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## 2 Test Summary

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Field strength of spurious radiation	47 CFR Part 90	ANSI C63.26, KDB 971168 D01 v03	§ 90.691	Pass



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## 4 General Information

### 4.1 Details of E.U.T.

Power supply:	DC 3.87V by internal rechargeable battery which can be charged by AC/DC adapter
---------------	---

### 4.2 General Description of EUT

Product Name:	Smart Phone		
Model No.:	TA-1371		
Sample Type:	Portable Device		
Antenna Type:	PIFA		
Antenna Gain:	CDMA BC10: -2.80dBi(ANT0); -2.65dBi(ANT1); LTE BAND26: -2.80dBi(ANT0); -2.65dBi(ANT1);		
Hardware Version:	V1.00		
Software Version:	00WW_1_01A		
LTE BAND 26	814 to 824 MHz	859 to 869 MHz	
CDMA BC10	817 to 824 MHz	862 to 869 MHz	
Supported Channel Bandwidth	LTE BAND 26 (814-824)	<input checked="" type="checkbox"/> 1.4 MHz; <input checked="" type="checkbox"/> 3 MHz; <input checked="" type="checkbox"/> 5 MHz; <input checked="" type="checkbox"/> 10 MHz;	
	CDMA BC10	<input checked="" type="checkbox"/> 1.23 MHz	

Test Mode	TX / RX	RF Channel		
		Low (L)	Middle (M)	High (H)
CDMA BC10	Reverse	Channel 476	Channel 580	Channel 684
		817.9MHz	820.5 MHz	823.1 MHz
	Forward	Channel 476	Channel 580	Channel 684
		862.9MHz	865.5 MHz	868.1 MHz



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Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 26 (814-824)	1.4MHz	TX	Channel 26697	Channel 26740	Channel 26783
			814.7 MHz	819 MHz	823.3 MHz
		RX	Channel 8697	Channel 8740	Channel 8783
			859.7 MHz	864MHz	868.3 MHz
	3MHz	TX	Channel 26705	Channel 26740	Channel 26775
			815.5 MHz	819 MHz	822.5 MHz
		RX	Channel 8705	Channel 8740	Channel 8775
			860.5 MHz	864MHz	867.5 MHz
	5MHz	TX	Channel 26715	Channel 26740	Channel 26765
			816.5 MHz	819 MHz	821.5 MHz
		RX	Channel 8715	Channel 8740	Channel 8755
			861.5 MHz	864MHz	866.5 MHz
	10MHz	TX	Channel 26740	Channel 26740	Channel 26740
			819 MHz	819 MHz	819 MHz
		RX	Channel 8740	Channel 8740	Channel 8740
			864MHz	864MHz	864MHz

### 4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--
The EUT has been tested as an independent unit.			



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#### 4.4 Measurement Uncertainty

Test Item	Measurement Uncertainty
Field strength of spurious radiation	4.5dB below 1GHz; 4.8dB above 1GHz
Remark: The $U_{lab}$ (lab Uncertainty) is less than $U_{cispr}$ (CISPR Uncertainty), so the test results – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.	

#### 4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

#### 4.6 Test Facility

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

• **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

• **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

#### 4.7 Deviation from Standards

None

#### 4.8 Abnormalities from Standard Conditions

None



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## 5 Equipment List

Field strength of spurious radiation					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2021-03-26	2024-03-25
EXA Signal Analyzer (10Hz-44GHz)	Agilent Technologies Inc	N9010A	SEM004-12	2021-02-01	2022-01-31
Horn Antenna (800MHz-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2021-04-14	2024-04-13
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2020-11-14	2023-11-13
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22
Pre-amplifier (26-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2021-03-24	2022-03-23
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2020-11-02	2021-11-01
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2021-03-24	2022-03-23
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2020-07-10	2021-07-09

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2020-09-15	2021-09-14
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2020-09-15	2021-09-14
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2021-03-30	2022-03-29



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## 6 Radio Spectrum Matter Test Results

### 6.1 Field strength of spurious radiation

Test Requirement §90.691  
 Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit:

For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log<sub>10</sub>(f/6.1) decibels or 50 + 10 Log<sub>10</sub>(P) decibels or 80 decibels, whichever is the lesser attenuation; frequency greater than 37.5KHz, ≤ -13dBm(LTE band 26a)

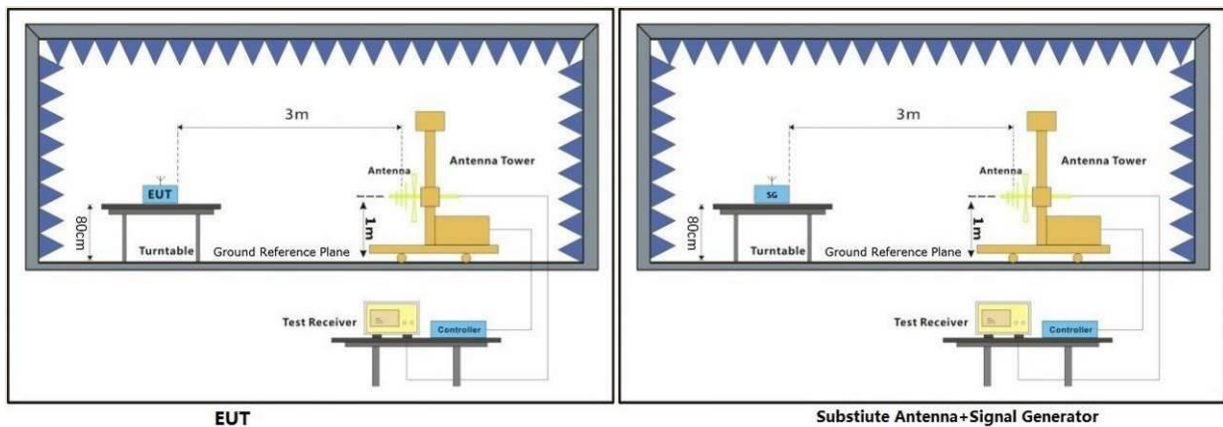
#### 6.1.1 E.U.T. Operation

Operating Environment:  
 Temperature: 23.6 °C Humidity: 49.3 % RH Atmospheric Pressure: 1050 mbar

#### 6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	CDMA BC10_TX mode_Keep the EUT in transmitting mode
Final test	01	LTE Band 26_TX mode_Keep the EUT in transmitting mode

#### 6.1.3 Test Setup Diagram



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**6.1.4 Measurement Procedure and Data**

Measurement Procedure: FCC KDB 971168 D01 V03r01

**Below 1GHz test procedure as below:**

- 1). The EUT was powered ON and placed on a 80cm high table in the chamber. The antenna of the transmitter was extended to its maximum length.
- 2). The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.
- 3). Steps 1) and 2) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.
- 4). The transmitter was then removed and replaced with another antenna. The center of the antenna was approximately at the same location as the center of the transmitter.
- 5). A signal at the disturbance was fed to the substitution antenna by means of a non-radiating cable. With both the substitution and the receive antennas horizontally polarized, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver. The level of the signal generator was adjusted until the measured field strength level in step 2) is obtained for this set of conditions.
- 6). The output power into the substitution antenna was then measured.
- 7). Steps 5) and 6) were repeated with both antennas polarized.
- 8) Calculate power in dBm by the following formula:

$$ERP(dBm) = P_g(dBm) - \text{cable loss (dB)} + \text{antenna gain (dBd)}$$

Where:

$P_d$  is the dipole equivalent power,  $P_g$  is the generator output into the substitution antenna, and the antenna gain is the gain of the substitute antenna used relative to either a half-wave dipole (dBd) or an isotropic source (dBi). The substitute level is equal to  $P_g [dBm] - \text{cable loss [dB]}$ . The calculated  $P_d$  levels are then compared to the absolute spurious emission limit of -13dBm which is equivalent to the required minimum attenuation of  $43 + 10\log_{10}(\text{Power [Watts]})$ .

**Above 1GHz test procedure as below:**

- 1) Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber
- 2) Calculate power in dBm by the following formula:

$$EIRP(dBm) = P_g(dBm) - \text{cable loss (dB)} + \text{antenna gain (dBi)}$$

$$EIRP = ERP + 2.15dB$$

Where:

$P_g$  is the generator output power into the substitution antenna.

3. Test the EUT in the lowest channel, the middle channel the Highest channel
4. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report.
5. Repeat above procedures until all frequencies measured was complete

Remark:

The emission below 1GHz is very low, so only record the worst case in the report



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CDMA BC10 (817 to 824MHz)

Low

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1725.8	-56.99	-13	-43.99	-60.32	0.52	6	Horizontal	Pass
2588.7	-53.31	-13	-40.31	-55.87	0.59	5.3	Horizontal	Pass
3451.6	-49.53	-13	-36.53	-52.93	0.65	6.2	Horizontal	Pass
1725.8	-57.48	-13	-44.48	-60.81	0.52	6	Vertical	Pass
2588.7	-54.04	-13	-41.04	-56.6	0.59	5.3	Vertical	Pass
3451.6	-49.14	-13	-36.14	-52.54	0.65	6.2	Vertical	Pass

Frequency (MHz)	ERP(d Bm)	Limit(d Bm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1731	-55.85	-13	-42.85	-59.18	0.52	6	Horizontal	Pass
2596.5	-52.82	-13	-39.82	-55.38	0.59	5.3	Horizontal	Pass
3462	-48.99	-13	-35.99	-52.39	0.65	6.2	Horizontal	Pass
1731	-54.1	-13	-41.1	-57.43	0.52	6	Vertical	Pass
2596.5	-52.44	-13	-39.44	-55	0.59	5.3	Vertical	Pass
3462	-47.85	-13	-34.85	-51.25	0.65	6.2	Vertical	Pass

Frequency (MHz)	ERP(d Bm)	Limit(d Bm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1736.2	-56.81	-13	-43.81	-60.14	0.52	6	Horizontal	Pass
2604.3	-52.81	-13	-39.81	-55.37	0.59	5.3	Horizontal	Pass
3472.4	-49.25	-13	-36.25	-52.65	0.65	6.2	Horizontal	Pass
1736.2	-56.45	-13	-43.45	-59.78	0.52	6	Vertical	Pass
2604.3	-53.36	-13	-40.36	-55.92	0.59	5.3	Vertical	Pass
3472.4	-49.34	-13	-36.34	-52.74	0.65	6.2	Vertical	Pass



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LTE Band 26 (814 to 824MHz), 1.4M

Low

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1628.3	-46.61	-13	-33.61	-49.94	0.52	6	Horizontal	Pass
2442.45	-59.27	-13	-46.27	-62.39	0.53	5.8	Horizontal	Pass
3256.6	-53.49	-13	-40.49	-56.89	0.65	6.2	Horizontal	Pass
1628.3	-54.22	-13	-41.22	-57.55	0.52	6	Vertical	Pass
2442.45	-58.31	-13	-45.31	-61.43	0.53	5.8	Vertical	Pass
3256.6	-53.33	-13	-40.33	-56.73	0.65	6.2	Vertical	Pass

Frequency (MHz)	ERP(d Bm)	Limit(d Bm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1628.3	-48.26	-13	-35.26	-51.59	0.52	6	Horizontal	Pass
2442.45	-58.01	-13	-45.01	-61.13	0.53	5.8	Horizontal	Pass
3256.6	-53.51	-13	-40.51	-56.91	0.65	6.2	Horizontal	Pass
1628.3	-52.5	-13	-39.5	-55.83	0.52	6	Vertical	Pass
2442.45	-58.69	-13	-45.69	-61.81	0.53	5.8	Vertical	Pass
3256.6	-52.74	-13	-39.74	-56.14	0.65	6.2	Vertical	Pass

Frequency (MHz)	ERP(d Bm)	Limit(d Bm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1642.3	-48.76	-13	-35.76	-52.09	0.52	6	Horizontal	Pass
2463.45	-57.32	-13	-44.32	-60.44	0.53	5.8	Horizontal	Pass
3284.6	-53.26	-13	-40.26	-56.66	0.65	6.2	Horizontal	Pass
1642.3	-52.75	-13	-39.75	-56.08	0.52	6	Vertical	Pass
2463.45	-58.25	-13	-45.25	-61.37	0.53	5.8	Vertical	Pass
3284.6	-52.97	-13	-39.97	-56.37	0.65	6.2	Vertical	Pass



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LTE Band 26 (814 to 824MHz), 3M  
 Low

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1628.3	-46.61	-13	-33.61	-49.94	0.52	6	Horizontal	Pass
2442.45	-59.27	-13	-46.27	-62.39	0.53	5.8	Horizontal	Pass
3256.6	-53.49	-13	-40.49	-56.89	0.65	6.2	Horizontal	Pass
1628.3	-54.22	-13	-41.22	-57.55	0.52	6	Vertical	Pass
2442.45	-58.31	-13	-45.31	-61.43	0.53	5.8	Vertical	Pass
3256.6	-53.33	-13	-40.33	-56.73	0.65	6.2	Vertical	Pass

Frequency (MHz)	ERP(dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1628.3	-48.26	-13	-35.26	-51.59	0.52	6	Horizontal	Pass
2442.45	-58.01	-13	-45.01	-61.13	0.53	5.8	Horizontal	Pass
3256.6	-53.51	-13	-40.51	-56.91	0.65	6.2	Horizontal	Pass
1628.3	-52.5	-13	-39.5	-55.83	0.52	6	Vertical	Pass
2442.45	-58.69	-13	-45.69	-61.81	0.53	5.8	Vertical	Pass
3256.6	-52.74	-13	-39.74	-56.14	0.65	6.2	Vertical	Pass

Frequency (MHz)	ERP(dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1642.3	-48.76	-13	-35.76	-52.09	0.52	6	Horizontal	Pass
2463.45	-57.32	-13	-44.32	-60.44	0.53	5.8	Horizontal	Pass
3284.6	-53.26	-13	-40.26	-56.66	0.65	6.2	Horizontal	Pass
1642.3	-52.75	-13	-39.75	-56.08	0.52	6	Vertical	Pass
2463.45	-58.25	-13	-45.25	-61.37	0.53	5.8	Vertical	Pass
3284.6	-52.97	-13	-39.97	-56.37	0.65	6.2	Vertical	Pass



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LTE Band 26 (814 to 824MHz), 5M  
 Low

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1628.5	-49.35	-13	-36.35	-52.68	0.52	6	Horizontal	Pass
2442.75	-59.26	-13	-46.26	-62.38	0.53	5.8	Horizontal	Pass
3257	-53.64	-13	-40.64	-57.04	0.65	6.2	Horizontal	Pass
1628.5	-49.56	-13	-36.56	-52.89	0.52	6	Vertical	Pass
2442.75	-59.07	-13	-46.07	-62.19	0.53	5.8	Vertical	Pass
3257	-53.4	-13	-40.4	-56.8	0.65	6.2	Vertical	Pass

Frequency (MHz)	ERP(d Bm)	Limit(dBm )	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1633.5	-50.92	-13	-37.92	-54.25	0.52	6	Horizontal	Pass
2450.25	-58.41	-13	-45.41	-61.53	0.53	5.8	Horizontal	Pass
3267	-53.54	-13	-40.54	-56.94	0.65	6.2	Horizontal	Pass
1633.5	-55.64	-13	-42.64	-58.97	0.52	6	Vertical	Pass
2450.25	-58.27	-13	-45.27	-61.39	0.53	5.8	Vertical	Pass
3267	-52.47	-13	-39.47	-55.87	0.65	6.2	Vertical	Pass

Frequency (MHz)	ERP(d Bm)	Limit(dBm )	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1638.5	-52.68	-13	-39.68	-56.01	0.52	6	Horizontal	Pass
2457.75	-57.36	-13	-44.36	-60.48	0.53	5.8	Horizontal	Pass
3277	-53.97	-13	-40.97	-57.37	0.65	6.2	Horizontal	Pass
1638.5	-52.4	-13	-39.4	-55.73	0.52	6	Vertical	Pass
2457.75	-57.22	-13	-44.22	-60.34	0.53	5.8	Vertical	Pass
3277	-53.69	-13	-40.69	-57.09	0.65	6.2	Vertical	Pass



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LTE Band 26 (814 to 824MHz), 10M  
 Mid

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
407.09	-48.97	-13	-38.27	-54.6	0.37	4.6	Horizontal	Pass
1629	-51.27	-13	-38.27	-54.6	0.52	6	Horizontal	Pass
2443.5	-58.08	-13	-45.08	-61.2	0.53	5.8	Horizontal	Pass
3258	-54.05	-13	-41.05	-57.45	0.65	6.2	Horizontal	Pass
1629	-46.58	-13	-33.58	-49.91	0.52	6	Vertical	Pass
2443.5	-57.66	-13	-44.66	-60.78	0.53	5.8	Vertical	Pass
3258	-53.1	-13	-40.1	-56.5	0.65	6.2	Vertical	Pass



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## 7 Test Setup Photo

Please refer to setup photos.

## 8 EUT Constructional Details (EUT Photos)

Refer to external and internal photos.

- End of the Report -

