

Page 1 of 27 Report No.: S24111807306007

FCC RADIO TEST REPORT FCC ID: 2AT6G-TERACUBE2S

Certificate #4298.0

Product : Smartphone Trade Mark : Teracube Model Name : Teracube 2s Family Model : N/A Report No. : S24111807306007 Issue Date: Jan. 07, 2025

Prepared for

Teracube Inc

16625 Redmond Way, Ste M-175 Redmond, WA 98052 USA

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.

No. 24 Xinfa East Road, Xiangshan Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, People's Republic of China

Tel. 0755-23200050 Website: http://www.ntek.org.cn



TEST RESULT CERTIFICATION

Applicant's name	Teracube Inc
Address 1	16625 Redmond Way, Ste M-175 Redmond, WA 98052 USA
Manufacturer's Name	Teracube Inc
Address 1	16625 Redmond Way, Ste M-175 Redmond, WA 98052 USA
Product description	
Product name S	Smartphone
Model and/or type reference : 7	
Family Model	N/A
Test Sample number: S	5241118073006
Standards F	FCC Part15.225
Test procedure A	ANSI C63.10-2013
	been tested by NTEK, and the test results show that the compliance with the FCC requirements. And it is applicable only the report.
	ed except in full, without the written approval of NTEK, this sed by NTEK, personnel only, and shall be noted in the revision of
Date (s) of performance of tests	
Date of Issue	,
Test Result	Pass
Prepared By : Joe Yan (Project Engineer)	Reviewed By : Aaron Cheng (Supervisor) Approved : Alex Li By : Alex Li (Manager)





Table of Contents	Page
1. SUMMARY OF TEST RESULTS	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 MODES	7
2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TE	STED 8
2.4 DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)	9
2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS	10
3 . ANTENNA REQUIREMENT	11
3.1 STANDARD REQUIREMENT	11
3.2 EUT ANTENNA	11
•=====	
4 . EMC EMISSION TEST	12
4.1 CONDUCTED EMISSION MEASUREMENT	12
4.1.1 POWER LINE CONDUCTED EMISSION LIMITS 4.1.2 TEST CONFIGURATION	12 12
4.1.3 TEST PROCEDURE	12
4.1.4 TEST RESULT	13
4.2 RADIATED EMISSION MEASUREMENT	15
4.2.1 RADIATED EMISSION LIMITS	15
4.2.2 TEST PROCEDURE	16
4.2.3 DEVIATION FROM TEST STANDARD 4.2.4 TEST SETUP	16 17
4.2.5 TEST RESULTS (BELOW 30MHZ)	18
4.2.6 TEST RESULTS (BETWEEN 30 – 1000 MHZ)	22
5 . BANDWIDTH TEST	24
5.1 TEST PROCEDURE	24
5.2 DEVIATION FROM STANDARD	24
5.3 TEST SETUP	24
5.4 TEST RESULTS	25
6. FREQUENCY TOLERANCE	26

NTEK JLW®

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15, Subpart C (15.225)					
Standard Section	Test Item	Judgment	Remark		
15.207	Conducted Emission	Pass			
15.205(a) 15.209 15.225(abcd)	Radiated Spurious Emission	Pass			
15.225 15.215(c)	20dB Bandwidth	Pass			
15.225(e)	Frequency Tolerance	Pass			
15.203	Antenna Requirement	Pass			

NOTE:

(1) "N/A" denotes test is not applicable in this Test Report.



1.1 TEST FACILITY

All measurement facilities used to collect the measurement data are located at No. 24 Xinfa East Road, Xiangshan Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, People's Republic of China.

ACCREDITED Certificate #4298.01

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

Site Description

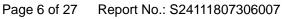
CNAS-Lab.	The Certificate Registration Number is L5516.	
IC-Registration	The Certificate Registration Number is 9270A.	
	CAB identifier:CN0074	
FCC- Accredited	Test Firm Registration Number: 463705.	
	Designation Number: CN1184	
A2LA-Lab.	The Certificate Registration Number is 4298.01	
	This laboratory is accredited in accordance with the reco International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibrati laboratories. This accreditation demonstrates technical competence f defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 Janua	on or a
Name of Firm	Shenzhen NTEK Testing Technology Co., Ltd.	
Site Location	No. 24 Xinfa East Road, Xiangshan Community, Xinqiao Baoan District, Shenzhen, Guangdong, People's Repub China.	-

1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions, radiated (>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%

NTEK 北测[®]



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Smartphone				
Trade Mark	Teracube	Teracube			
Model Name	Teracube 2s				
Family Model	N/A				
Model Difference	N/A				
Product Description	The EUT is a SmartphoneOperation Frequency:13.56MHzModulation Type:ASKNumber Of Channel1CH.Antenna Designation:Induction coil				
Adapter	N/A				
Battery	DC 3.85V, 4000mAh, 15.40Wh				
Power supply	DC 3.85V from battery or DC 5V from USB port				
HW Version	YK673-MB-V6.0 2020.06.17				
SW Version	N/A				

ACCREDITED Certificate #4298.01

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



2.2 DESCRIPTION OF TEST MODES

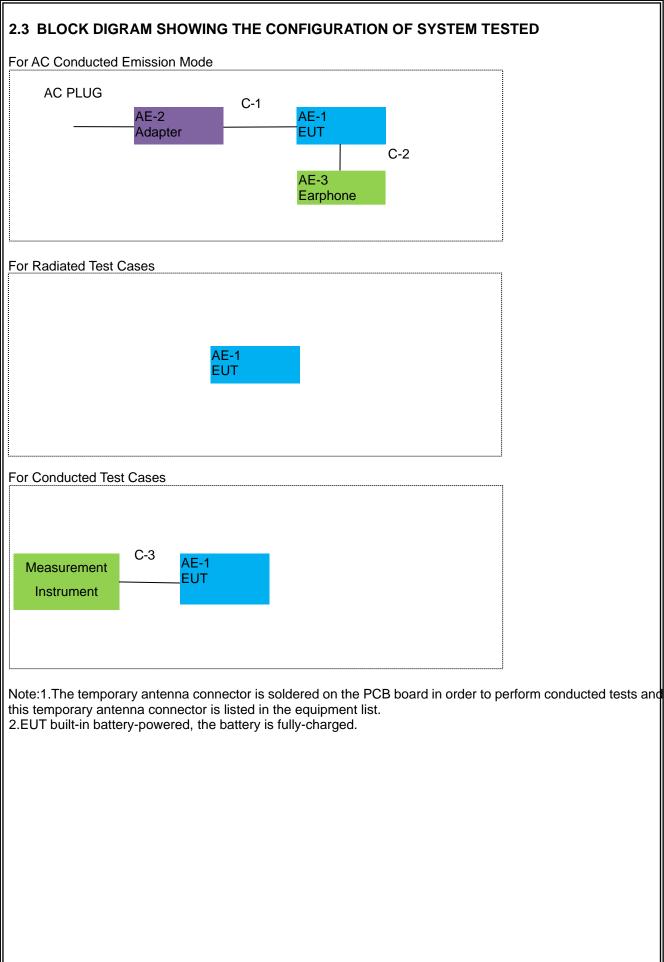
To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration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

Pretest Mode	Description
Mode 1	TX-13.56MHz

For Conducted Emission			
Final Test Mode	Description		
Mode 1	TX-13.56MHz		

For Radiated Emission			
Final Test Mode	Description		
Mode 1	TX-13.56MHz		

NTEK JLW





2.4 DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)

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	Model/Type No.	Series No.	Note
AE-1	Smartphone	Teracube 2s	N/A	EUT
AE-2	E-2 Adapter N/A		N/A	Peripherals
AE-3	-3 Earphone N/A		N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable	YES	NO	1.0m	
C-2	Earphone Cable	NO	NO	1.2m	
C-3	RF Cable	YES	NO	0.1m	

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 ^rLength₁ column.

2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS Radiation& Conducted Test equipment Calibrati Kind of Calibrated Last Item Manufacturer Type No. Serial No. on Equipment calibration until period Spectrum 1 Aglient E4440A MY41000130 2024.04.26 2025.04.25 1 year Analyzer Spectrum 2 Agilent N9020A MY49100060 2024.04.25 2025.04.24 1 year Analyzer Spectrum 3 R&S FSV40 101417 2024.04.25 2025.04.24 1 year Analyzer 4 Test Receiver R&S ESPI7 101318 2024.04.26 2025.04.25 1 year 5 TESEQ Bilog Antenna CBL6111D 31216 2024.05.12 2025.05.11 1 year 50Ω Coaxial 6 Anritsu MP59B 6200983705 2024.04.26 2027.04.25 3 year Switch EM-AH-1018 2011071402 7 Horn Antenna EΜ 2024.05.12 2027.05.11 3 year 0 SCHWARZBE FMZB 1519 Active Loop 8 055 2024.05.17 2027.05.16 3 year Antenna CK В LF Cable N/A R-03 N/A 2022.06.17 2025.06.16 9 3 year MXG Vector 10 Signal 2025.04.24 Agilent 2024.04.25 1 year N5182A MY47070317 Generator **Test Cable** 11 N/A R-01 N/A 2023.05.06 2026.05.05 3 year (9KHz-30MHz) Test Cable 12 N/A R-02 N/A 2023.05.06 2026.05.05 3year (30MHz-1GHz)

AC Conduction Test equipment

lte m	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2024.04.26	2025.04.25	1 year
2	LISN	R&S	ENV216	101313	2024.04.25	2025.04.24	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2024.04.26	2025.04.25	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2024.04.26	2027.04.25	3 year
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2023.05.06	2026.05.05	3 year
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2023.05.06	2026.05.05	3 year
7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2023.05.06	2026.05.05	3 year

Note:

1.We will use the temporary antenna connector (soldered on the PCB board) When conducted test And this temporary antenna connector is listed within the instrument list

2. Each piece of equipment is scheduled for calibration once a year except the Test Cable& Aux Equipment which is scheduled for calibration every 3 years.



3. ANTENNA REQUIREMENT

3.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

3.2 EUT ANTENNA

The EUT antenna is permanent attached antenna. It comply with the standard requirement.



4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

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

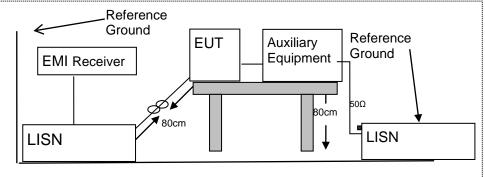
	Conducted	d Emission Limit
Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56*	56-46*
0.5-5.0	56	46
5.0-30.0	60	50

Note: 1. *Decreases with the logarithm of the frequency

2. The lower limit shall apply at the transition frequencies

3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.1.2 TEST CONFIGURATION



4.1.3 TEST PROCEDURE

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
- 2. The EUT was placed on a table which is 0.8m above ground plane.
- Connect EUT 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.
- 4. 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 40cm long.
- 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.
- 6. LISN at least 80 cm from nearest part of EUT chassis.
- 7. The frequency range from 150KHz to 30MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
- 9. For the actual test configuration, please refer to the related Item -EUT Test Photos.



4.1.4 TEST RESULT

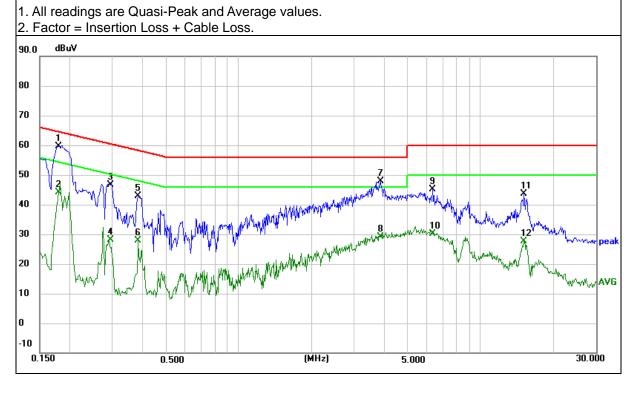
EUT :	Smartphone	Model Name :	Teracube 2s
Temperature :	22 ℃	Relative Humidity:	57%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

ACCREDITED

Certificate #4298.01

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1796	38.79	20.83	59.62	64.50	-4.88	peak
0.1796	23.39	20.83	44.22	54.50	-10.28	AVG
0.2940	25.68	20.93	46.61	60.41	-13.80	peak
0.2940	7.27	20.93	28.20	50.41	-22.21	AVG
0.3820	22.21	20.75	42.96	58.24	-15.28	peak
0.3820	7.13	20.75	27.88	48.24	-20.36	AVG
3.8580	26.91	21.07	47.98	56.00	-8.02	peak
3.8580	8.07	21.07	29.14	46.00	-16.86	AVG
6.3460	24.49	20.76	45.25	60.00	-14.75	peak
6.3460	9.44	20.76	30.20	50.00	-19.80	AVG
15.1260	22.85	20.76	43.61	60.00	-16.39	peak
15.1260	6.75	20.76	27.51	50.00	-22.49	AVG

Remark:





EUT :	Smartphone	Model Name :	Teracube 2s
Temperature :	22 °C	Relative Humidity :	57%
Pressure :	1010hPa	Phase :	Ν
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode :	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1580	41.94	20.78	62.72	65.57	-2.85	peak
0.1580	24.78	20.78	45.56	55.57	-10.01	AVG
0.2340	31.66	20.82	52.48	62.31	-9.83	peak
0.2340	12.86	20.82	33.68	52.31	-18.63	AVG
0.4140	19.01	21.10	40.11	57.57	-17.46	peak
0.4140	1.74	21.10	22.84	47.57	-24.73	AVG
3.7780	23.10	20.79	43.89	56.00	-12.11	peak
3.7780	9.18	20.79	29.97	46.00	-16.03	AVG
8.5380	16.70	20.77	37.47	60.00	-22.53	peak
8.5380	5.55	20.77	26.32	50.00	-23.68	AVG
15.2780	21.45	21.09	42.54	60.00	-17.46	peak
15.2780	7.02	21.09	28.11	50.00	-21.89	AVG

Remark:

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

dBu¥ 90.0 80 70 60 50 Z M 11 40 Nomion 8 ¥ 30 20 10 w AVG ad 0 -10 30.000 0.150 0.500 (MHz) 5.000

4.2 RADIATED EMISSION MEASUREMENT

NTEK 北测

4.2.1 Radiated Emission	4.2.1 Radiated Emission Limits (FCC 15.209)							
Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)						
0.009~0.490	2400/F(KHz)	300						
0.490~1.705	24000/F(KHz)	30						
1.705~30.0	30	30						
30~88	100	3						
88~216	150	3						
216~960	200	3						
Above 960	500	3						

Certificate #4298.0

Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission level (dBuV/m)=20log Emission level (uV/m).
- (3) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

According to FCC Part15.205, Restricted bands

LIMITS OF RADIATED EMISSION MEASUREMENT (FCC 15.225)

(a)The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters, equal to 124dBuV/m at 3 meters.

(b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters, equal to 90.5dBuV/m at 3 meters.
(c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters, equal to 80.5dBuV/m at 3 meters..
(d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in § 15.209.



Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1MHz / 1MHz for Peak

Certificate #4298.01

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

4.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz And above 1GHz,
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

Both horizontal and vertical antenna polarities were tested

and performed pretest to three orthogonal axis. The worst case emissions were reported

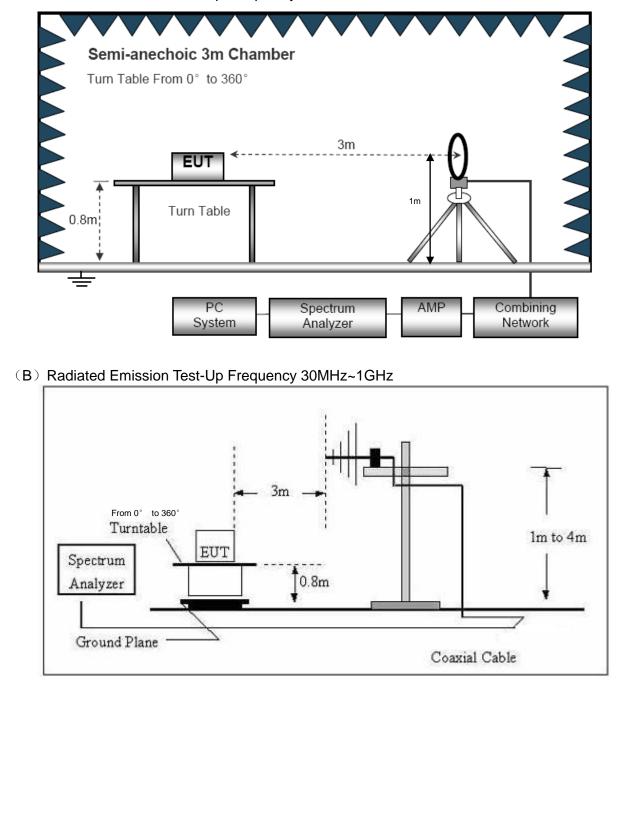
4.2.3 DEVIATION FROM TEST STANDARD

No deviation



4.2.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz

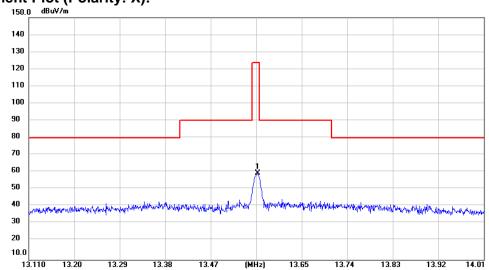


NTEK LIN®

4.2.5 TEST RESULTS (BELOW 30MHz)

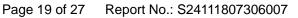
EUT :	Smartphone	Model Name. :	Teracube 2s
Temperature :	20 ℃	Relative Humidtity :	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.85V
Test Mode :	TX-13.56MHz		

Measurement Plot (Polarity: X):



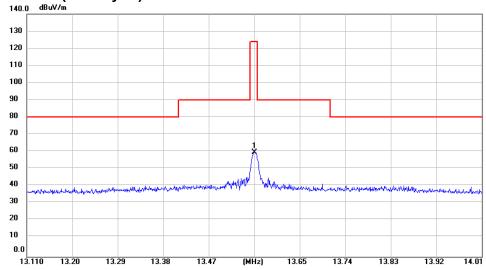
Measurement Result:

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1 *	13.5627	60.10	0.00	60.10	124.00	-63.90	peak





Measurement Plot (Polarity: Y):



Measurement Result:

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1 *	13.5604	60.33	0.00	60.33	124.00	-63.67	peak



Page 20 of 27 Report No.: S24111807306007

Measurement Plot (Polarity: Z):



Measurement Result:

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1*	13.5613	63.22	0.00	63.22	124.00	-60.78	peak



Spurious emissions at 9kHz~90kHz & 110kHz~490kHz and above 1000 MHz

Frequency(MHz)	Ant.Pol.	Emission	Emission Limits		Remark
		Level			
		(dBuV/m)	(dBuV/m)	(dB)	
0.063	Х	50.24	111.617	-61.38	AVG
0.079	Х	49.08	109.652	-60.57	AVG
0.124	Х	76.78	105.736	-28.96	AVG
0.721	Х	48.91	70.446	-21.54	QP
8.456	Х	46.70	69.542	-22.84	QP
12.336	Х	45.43	69.542	-24.11	QP

Frequency(MHz)	Ant.Pol.	Emission	Limits	Margin	Remark
		Level			
		(dBuV/m)	(dBuV/m)	(dB)	
0.063	Х	61.64	131.617	-69.98	PK
0.063	Х	49.98	111.617	-61.64	Avg
0.079	Х	55.69	129.652	-73.96	PK
0.079	Х	48.76	109.652	-60.89	Avg
0.124	Х	85.24	125.736	-40.50	PK
0.124	Х	76.43	105.736	-29.31	Avg
0.721	Х	48.86	70.28	-21.42	QP
8.456	Х	47.40	69.54	-22.14	QP
12.336	Х	45.92	69.54	-23.62	QP

Note:

Below 30MHz, Pre-test the X, Y, Z axis to find X axis is worst case, so only record X axis test data. X: Field strength which this device generates since the position of the charging coil and loop antenna differ by 0 degrees.

Y: Field strength which this device generates since the position of the charging coil and loop antenna differ by 90 degrees.

Z: Field strength which this device generates since the position of the charging coil and loop antenna differ by 180 degrees

NTEK JLW®

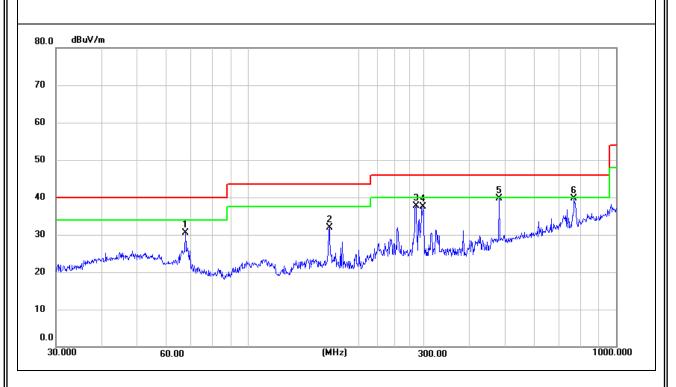
4.2.6 TEST RESULTS (BETWEEN 30 - 1000 MHZ)

EUT :	Smartphone	Model Name :	Teracube 2s
Temperature :	22 ℃	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.85V
Test Mode :	ТХ	Polarization :	Horizontal

Freq.	Reading	Factor	Measurement	Limit	Over	Detector
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector
67.4381	13.87	16.72	30.59	40.00	-9.41	peak
166.0680	16.88	15.12	32.00	43.50	-11.50	peak
285.9777	17.78	19.90	37.68	46.00	-8.32	peak
298.2681	17.34	20.17	37.51	46.00	-8.49	peak
480.5276	15.92	23.84	39.76	46.00	-6.24	peak
768.7481	11.07	28.56	39.63	46.00	-6.37	peak

Remark:

Factor = Antenna Factor + Cable Loss.

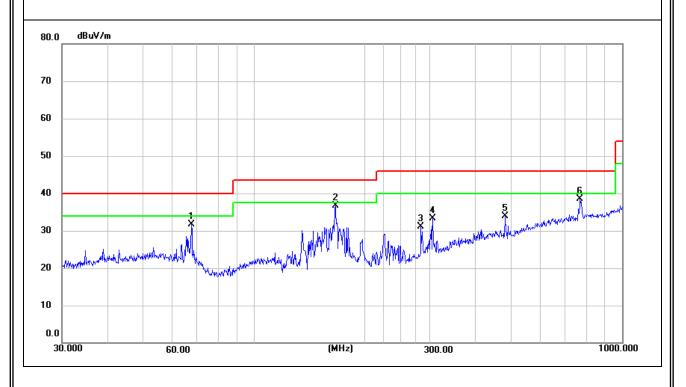




EUT :	EUT : Smartphone			Model N	el Name : Teracube 2s				
Temperature	:	25 ℃			Relative	Relative Humidity: 55%			
Pressure :		1010 hPa	a		Test Vo	Itage :	DC	3.85V	
Test Mode :		ТΧ			Polariza	ation :	Vertical		
Freq.	R	eading	Factor	Measurement		Limit		Over	Detector
(MHz)	(d	BµV/m)	(dB)	(dBµV/m)		(dBµV/m	(dBµV/m)		Delector
67.4381		14.89	16.72	31.	61	40.00		-8.39	peak
166.0680		21.62	15.12	36.74		43.50		-6.76	peak
283.9791		11.16	19.86	31.02		46.00		-14.98	peak
305.6800		12.92	20.32	33.24		46.00		-12.76	peak
480.5276		10.16	23.84	34.00		46.00		-12.00	peak
768.7481		9.95	28.56	38.	51	46.00		-7.49	peak

Remark:

Factor = Antenna Factor + Cable Loss.





5. BANDWIDTH TEST

5.1 TEST PROCEDURE

1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak mode.

2. 20dB Bandwidth the resolution bandwidth of 1 kHz and the video bandwidth of 1 kHz were used.

Certificate #4298.01

3. Measured the spectrum width with power higher than 20dB below carrier.

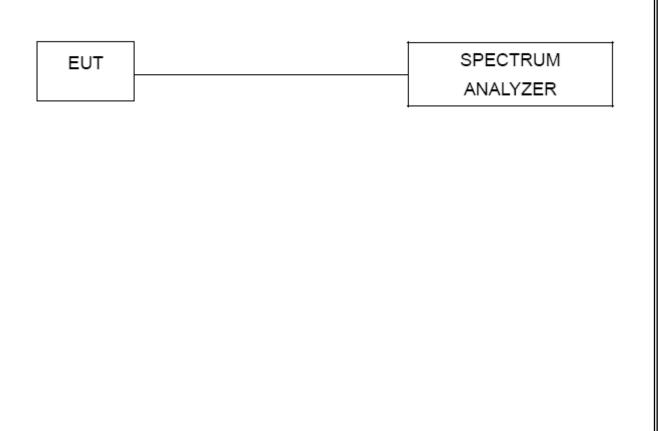
5.2 DEVIATION FROM STANDARD

15.215

(c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated

FCC Part15.225 Operation within the band 13.110 – 14.010MHz

5.3 TEST SETUP





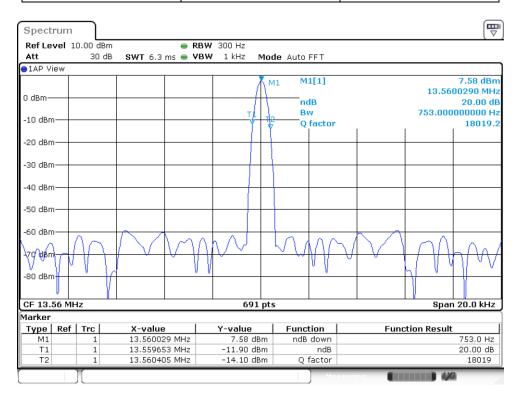


5.4 TEST RESULTS

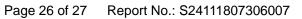
EUT :	Smartphone	Model Name :	Teracube 2s
Temperature :	26 ℃	Relative Humidity :	54%
Pressure :	1020 hPa	Test Power :	DC 3.85V
Test Mode :	ТХ		

ACCREDITED Certificate #4298.01

Test Channel	Frequency	20 dBc Bandwidth		
	(MHz)	(kHz)		
CH01	13.56	0.753		







6. FREQUENCY TOLERANCE

6.1 Requirement: Test Requirement:	FCC Part15.225
Test Method:	ANSI C63.4:2014
Requirement:	The frequency tolerance of the carrier signal shall be maintained
	within +/- 0.01% of the operating frequency over a temperature
	variation of –20 degrees to +50 degrees C at normal supply
	voltage, and for a variation in the primary supply voltage from
	85% to 115% of the rated supply voltage at a temperature of 20
	degrees C. For battery operated equipment, the equipment tests
	shall be performed using a new battery.
6.2 Test Procedure	

ACCREDITED Certificate #4298.01

1. The EUT was placed on a turn table which is 0.8m above ground plane.

2.Set EUT as normal operation

3.Set SPA Center Frequency = fundamental frequency, RBW, VBW= 10kHz, Span =100kHz.

4.Set SPA Max hold. Mark peak.





Test Result

Power Supply	Temperature (℃)	Measured Frequency (MHz)	Frequency Error (MHz)	Result (ppm)	Part 15.225 Limit
	-20	13.56032	0.00032	23.60	+/- 0.01%(100ppm)
DC 4.45V	20	13.56045	0.00045	33.19	+/- 0.01%(100ppm)
	50	13.56061	0.00061	44.99	+/- 0.01%(100ppm)
	-20	13.56028	0.00028	20.65	+/- 0.01%(100ppm)
DC 3.85V	20	13.56036	0.00036	26.55	+/- 0.01%(100ppm)
	50	13.56015	0.00015	11.06	+/- 0.01%(100ppm)
	-20	13.56022	0.00022	16.22	+/- 0.01%(100ppm)
DC 3.29V	20	13.56028	0.00028	20.65	+/- 0.01%(100ppm)
	50	13.56016	0.00016	11.80	+/- 0.01%(100ppm)

END REPORT