

FCC Test Report FCC ID: 2ABOSSKYFUEGO35M

Product: Smart phone Trade Name: SKY Model Number: Fuego 3.5M Serial Model: N/A Report No.: NTEK- 2016NT10279569F4

Prepared for

Sky Phone LLC 1348 Washington Av. Suite 350, Miami Beach, Florida 33139, United States

Prepared by

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TEST RESULT CERTIFICATION

Applicant's name	Sky Phone LLC
Address:	1348 Washington Av. Suite 350, Miami Beach, Florida 33139, United States
	Shenzhen OVVI Technology CO., Ltd.
Address	Room 201, Block D, Number 16 LangShan Road, North of Science Technology Park
Product description	
Product name:	Smart phone
Model and/or type reference :	Fuego 3.5M
Standards	FCC Part15B: 08 Nov.2016 ANSI C63.4:2014
	s been tested by NTEK, and the test results show that the n compliance with Part 15 of FCC Rules. And it is applicable only to

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 (s) of performance of tests	27 Oct. 2016 ~ 08 Nov. 2016
Date of Issue	08 Nov. 2016
Test Result:	Pass

:

2

Testing Engineer

(Lake Xie)

fasen ohen

Technical Manager

(Jason Chen)

Authorized Signatory:

Sam. Chew

(Sam Chen)



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1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission						
Standard	Judgment	Remark				
FCC Part15B:2016	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.



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 P.R. China.

FCC Registration Number:238937; IC Registration Number:9270A-1

CNAS Registration Number:L5516

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 %.

A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKC01	ANSI	150 KHz ~ 30MHz	3.2	

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKA01	ANSI	30MHz ~ 1000MHz	4.7	
		1GHz ~12.4GHz	5.0	

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

2.1 GENERAL DESCRIPTION OF EUT				
Equipment	Smart phone			
Trade Name	SKY			
Model Name	Fuego 3.5M			
Serial Model	N/A			
Model Difference	N/A			
	The EUT is a Indus	strial Smart phone.		
	Connecting I/O port:	USB, Earphone		
Product Description	Operation Frequency: Modulation Type:	BT(BR+EDR): 2402~2480MHz WIFI 802.11B/G/N20:2412~2462MHz; WIFI 802.11 N40:2422~2452MHz; GSM850: TX824.2MHz~848.8MHz /RX869.2MHz~893.8MHz; PCS1900: TX1850.2MHz~1909.8MHz /RX1930.2MHz~1989.8MHz; UMTS FDD Band II: TX1852.4MHz~1907.6MHz /RX1932.4MHz~1987.6MHz; UMTS FDD Band V: TX826.4MHz~846.6MHz /RX869MHz~894MHz; BT(1Mbps): GFSK BT EDR(2Mbps): π /4-DQPSK BT EDR(2Mbps): π /4-DQPSK		
		BT EDR(3Mbps): 8-DPSK IEEE 802.11b : DSSS (CCK, QPSK, DBPSK) IEEE 802.11g/n (HT20/HT40) : OFDM (64QAM, 16QAM, QPSK, BPSK) GSM / DCS: GMSK WCDMA:QPSK		
Power Source	DC 3.7V/1150mAh f	from Battery or DC 5V from adapter.		
Adapter	 ☑Adapter supply: Model: Fuego 3.5M Input: AC 100~240V 50/60Hz 0.15A Output: DC 5V,500mA 			
Battery	DC supply: DC 3.7V/1150mAh from Battery or DC 5V from adapter.			



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.

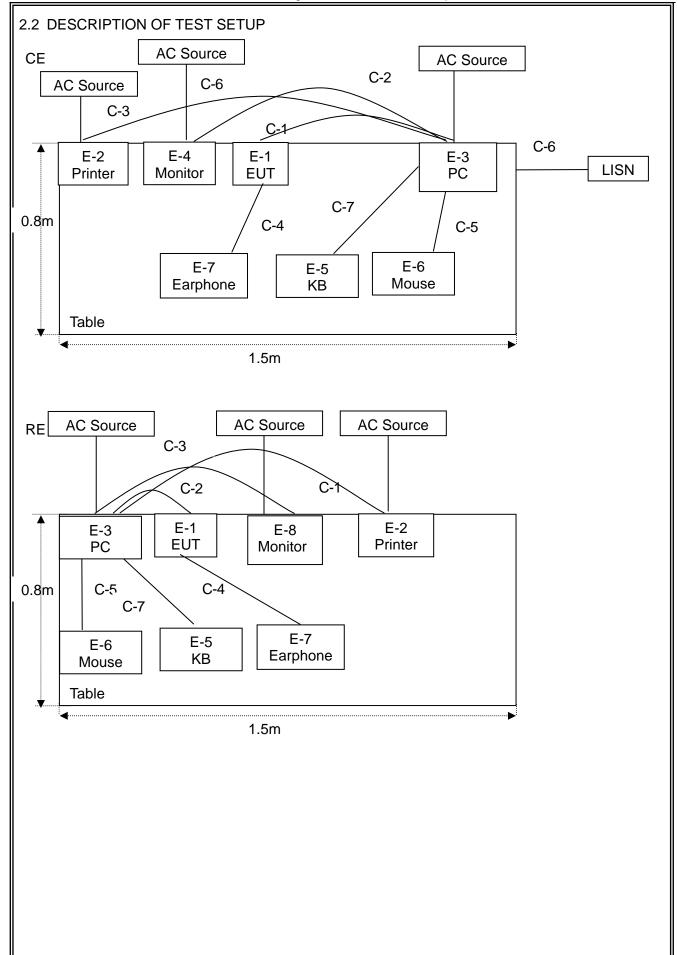
Pretest Mode	Description
Mode 1	Connect to PC
Mode 2	Camera
Mode 3	TF card Play

For Conducted Test			
Final Test Mode Description			
Mode 1	Connect to PC		
Mode 2	Camera		
Mode 3	TF card Play		

For Radiated Test				
Final Test Mode Description				
Mode 1	Connect to PC			
Mode 2	Camera			
Mode 3	TF card Play			

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.







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
E-1	Smart phone	SKY	Fuego 3.5M	N/A	EUT
E-2	Printer	Canon	L11121E	LBP2900	
E-3	Personal computer	DELL	FT4Y23X	34413561645	
E-4	Monitor	DELL	IN2020MB	cn-0y6mhx-74261-11f-67e s	
E-5	Keyboard	DELL	SK-8185	OY526KUS	
E-6	Mouse	DELL	MS111-P	cn-011d3v-71581-11e-1th7	
E-7	Earphone	N/A	L662	N/A	
E-8	Monitor	Lenovo	L197wA	OMO4345C1062034	

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable	unshielded	NO	1.2m	
C-2	VGA	unshielded	NO	1.0m	
C-3	USB Cable	unshielded	NO	1.2m	
C-4	Earphone Cable	unshielded	NO	1.0m	
C-5	USB Cable	unshielded	NO	1.0m	
C-6	Power Line	unshielded	NO	1.2m	
C-7	USB Cable	unshielded	NO	1.0m	

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 $\[$ Length $\]$ column.

(3) "YES" means "shielded" "with core"; "NO" means "unshielded" "without core".



2.4 MEASUREMENT INSTRUMENTS LIST

Radiation Test equipment

Naula	allon rest equi	Jinent					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n period
1	Spectrum Analyzer	Agilent	E4407B	MY4510804 0	2016.07.06	2017.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2016.06.07	2017.06.06	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2016.07.06	2017.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2016.06.07	2017.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2016.06.07	2017.06.06	1 year
6	Horn Antenna	EM	EM-AH-101 80	2011071402	2016.07.06	2017.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2016.07.06	2017.07.05	1 year
8	Amplifier	EM	EM-30180	060538	2015.12.22	2016.12.21	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2016.06.08	2017.06.07	1 year
10	Power Meter	R&S	NRVS	100696	2016.07.06	2017.07.05	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619. 05	2016.07.06	2017.07.05	1 year
12	Test Cable	N/A	R-01	N/A	2016.07.06	2017.07.05	1 year
13	Test Cable	N/A	R-02	N/A	2016.07.06	2017.07.05	1 year

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	2016.07.06	2017.07.05	1 year
2	LISN	R&S	ENV216	101313	2016.08.24	2017.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2016.08.24	2017.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 7	2016.06.07	2017.06.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2016.06.07	2017.06.06	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2016.06.08	2017.06.07	1 year
7	Test Cable	N/A	C01	N/A	2016.06.08	2017.06.07	1 year
8	Test Cable	N/A	C02	N/A	2016.06.08	2017.06.07	1 year
9	Test Cable	N/A	C03	N/A	2016.06.08	2017.06.07	1 year

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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)		
	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

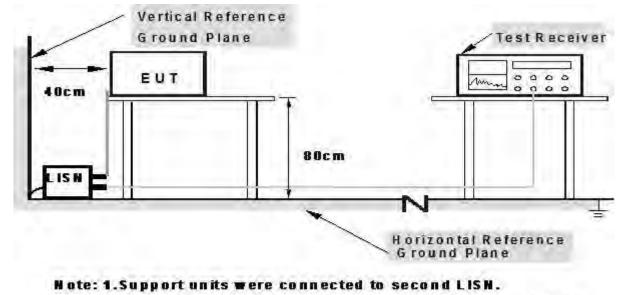
Receiver Parameters	Setting		
Attenuation	10 dB		
Start Frequency	0.15 MHz		
Stop Frequency	30 MHz		
IF Bandwidth	9 kHz		



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



2.Both of LISNs (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.



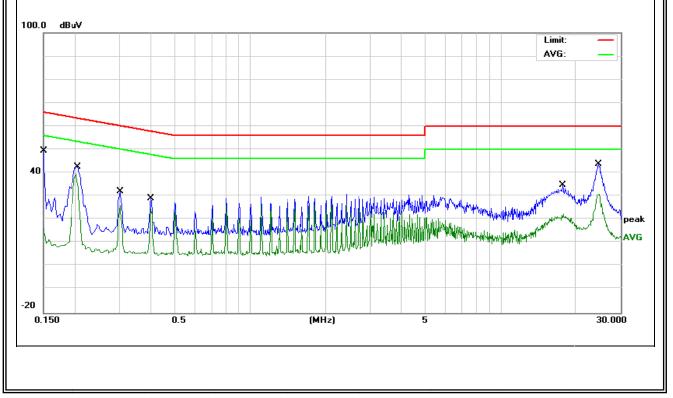
3.1.5 TEST RESULTS

			Mode	Name. :	Fuego 3.5M		
Temperature: 26 °C			Relative Humidity:		54%		
Pressure:	1010hPa		-	Test D	Date:	2016-10-27	
Test Mode:	Mode 1		I	Phase	e:	L	
Test Voltage:	DC 5V Fi	rom PC AC 12	20V/60Hz				
Frequency	Reading Level	Correct Factor	Measure-r	ment	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµ\	V)	(dBµV)	(dB)	Remark
0.1500	39.19	10.13	49.3	2	66.00	-16.68	QP
0.1500	5.94	10.13	16.0	7	56.00	-39.93	AVG
0.2020	32.36	10.17	42.5	3	63.52	-20.99	QP
0.2020	29.26	10.17	39.4	3	53.52	-14.09	AVG
0.3020	22.01	10.12	32.1	3	60.19	-28.06	QP
0.3020	15.85	10.12	25.9	7	50.19	-24.22	AVG
0.4020	19.02	9.94	28.9	6	57.81	-28.85	QP
0.4020	14.75	9.94	24.6	9	47.81	-23.12	AVG
17.7139	24.50	10.11	34.6	1	60.00	-25.39	QP
17.7139	12.35	10.11	22.46		50.00	-27.54	AVG
24.7460	33.72	10.10	43.8	2	60.00	-16.18	QP
24.7460	20.89	10.10	30.9	9	50.00	-19.01	AVG

Remark:

1. All readings are Quasi-Peak and Average values.

2. Factor = Insertion Loss + Cable Loss.





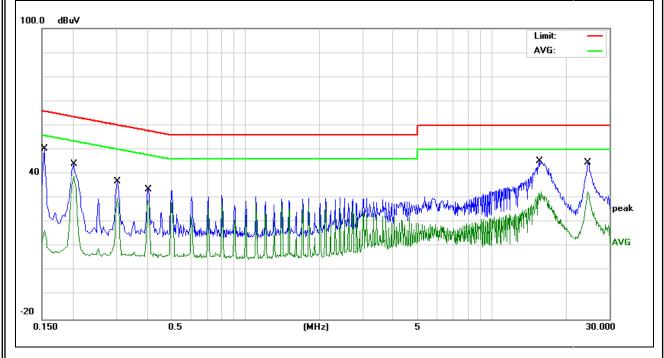
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EUT:	Smart ph			Mode	I Name. :	Fuego 3.5M	
			Relative Humidity:		54%		
Pressure:	1010hPa			Test D	•	2016-10-27	
Test Mode:	Mode 1			Phase):	N	
Test Voltage:	DC 5V F	rom PC AC 12	20V/60Hz	2			
Frequency	Reading Level	Correct Factor	Measure-	ment	Limits	Margin	Damark
(MHz)	(dBµV)	(dB)	(dBµ'	V)	(dBµV)	(dB)	Remark
0.1539	40.36	10.13	50.4	19	65.78	-15.29	QP
0.1539	6.77	10.13	16.9	90	55.78	-38.88	AVG
0.2020	33.95	10.17	44.1	2	63.52	-19.40	QP
0.2020	28.81	10.17	38.9	98	53.52	-14.54	AVG
0.3019	26.59	10.12	36.7	′1	60.19	-23.48	QP
0.3019	19.86	10.12	29.9	98	50.19	-20.21	AVG
0.4020	23.63	9.94	33.5	57	57.81	-24.24	QP
0.4020	18.99	9.94	28.9	93	47.81	-18.88	AVG
15.6179	35.35	9.98	45.3	33	60.00	-14.67	QP
15.6179	22.53	9.98	32.5	51	50.00	-17.49	AVG
24.5899	34.66	10.11	44.7	7	60.00	-15.23	QP
24.5899	22.65	10.11	32.7	'6	50.00	-17.24	AVG

Remark:

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



β.1.6 RADIATED EMISSION MEASUREMENT

3.1.7 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).

3.1.8 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 wors



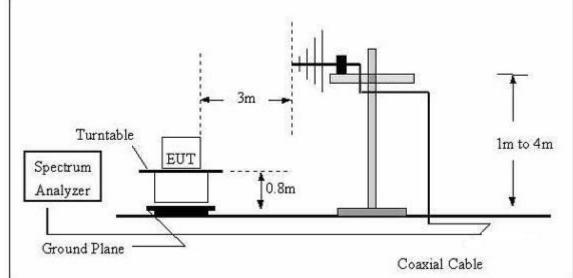
case is recorded in the report

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

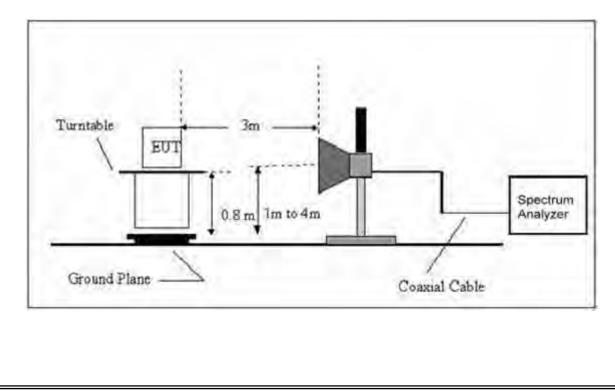
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
	Peak	1 MHz	1 MHz
Above 1000	Avg	1 MHz	10 Hz

3.1.9 TEST SETUP

For Radiated Emission 30~1000MHz



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





3.1.10 TEST RESULTS

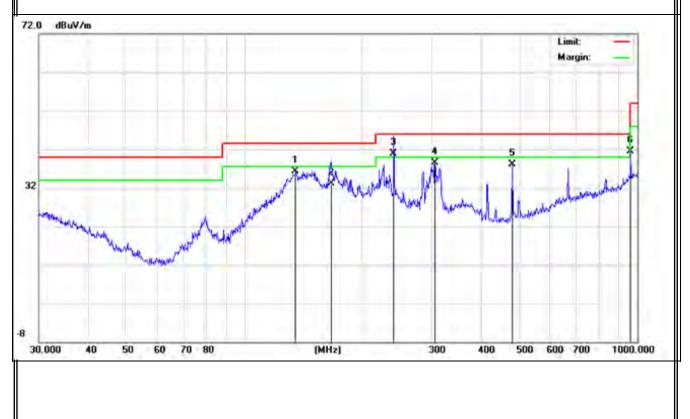
TEST RESULTS (30~1000 MHz)

EUT:	Smart phone	Model Name. :	Fuego 3.5M		
Temperature: 24 °C		Relative Humidity:	54%		
Pressure:	1010 hPa	Test Date :	2016-8-19		
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)	Roman
H	30.5305	6.24	19.59	25.83	40.00	-14.17	QP
Н	95.0930	13.02	11.48	24.50	43.50	-19.00	QP
Н	138.3873	11.94	12.97	24.91	43.50	-18.59	QP
Н	245.9509	17.80	14.46	32.26	46.00	-13.74	QP
H	455.9057	10.95	20.96	31.91	46.00	-14.09	QP
H	640.6109	8.06	25.31	33.37	46.00	-12.63	QP

Remark:

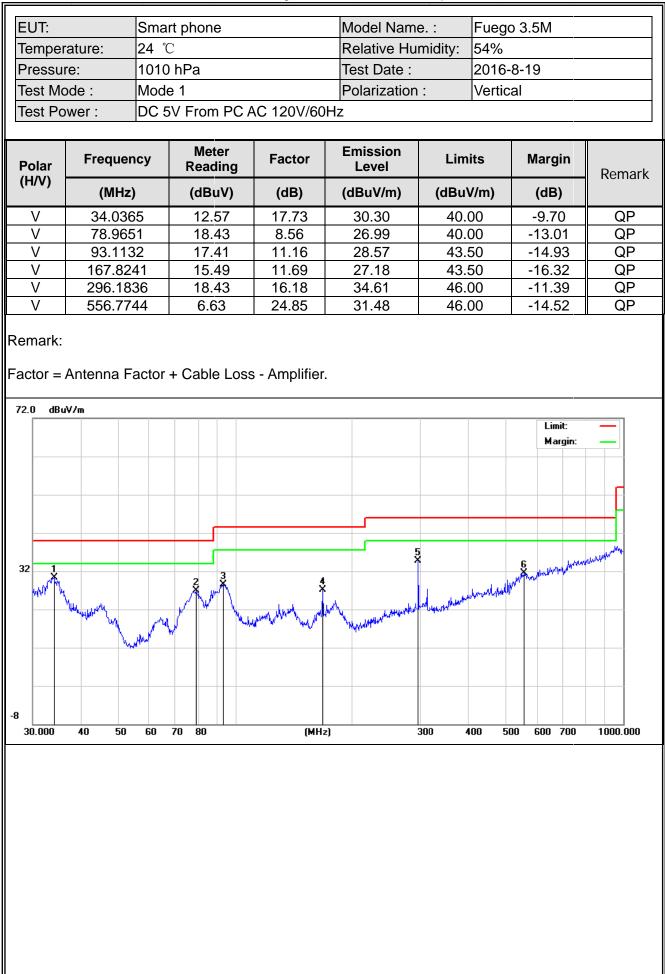
Factor = Antenna Factor + Cable Loss - Amplifier.





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3.1.11 TEST RESULTS(1000~12400MHz)

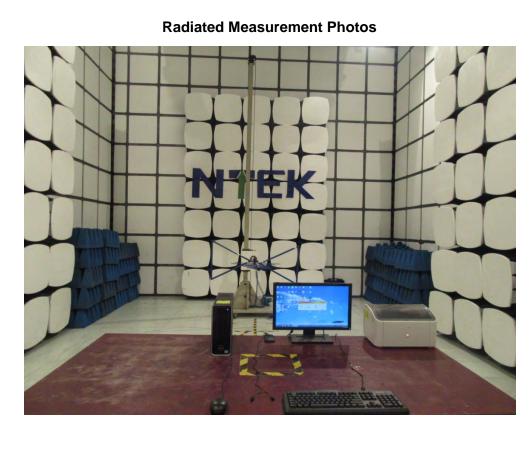
Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark		
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)			
V	1438.681	43.69	-10.06	33.63	74.00	-40.37	peak		
V	1438.682	32.96	-10.06	22.90	54.00	-31.10	AVG		
V	2401.684	40.54	-5.23	35.31	74.00	-38.69	peak		
V	2401.684	28.83	-5.23	23.60	54.00	-30.40	AVG		
V	2626.779	40.51	-4.52	35.99	74.00	-38.01	peak		
V	2626.779	28.92	-4.52	24.40	54.00	-29.60	AVG		
Н	1455.541	44.80	-10.06	34.74	74.00	-39.26	peak		
Н	1455.541	33.46	-10.06	23.40	54.00	-30.60	AVG		
Н	2137.648	39.49	-4.48	35.01	74.00	-38.99	peak		
Н	2137.648	29.68	-4.48	25.20	54.00	-28.80	AVG		
Н	2631.490	42.40	-4.54	37.86	74.00	-36.14	peak		
Н	2631.490	31.24	-4.54	26.70	54.00	-27.30	AVG		
Remar	Remark:								

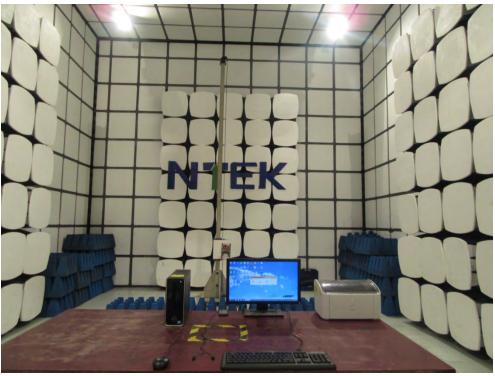
Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



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4. EUT TEST PHOTO







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Conducted Measurement Photos

