



## FCC Test Report

**FCC ID: 2ADWUP5047A**

**Product:** Smart phone

**Trade Mark:** Cosmo Z

**Model Number:** P5047A

**Serial Model:** P5047AD

**Report No.:** NTEK- 2017NT04142704F4

**Prepared for**

ONE DIAMOND ELECTRONICS INC.

1450 Frazee Road, Suite 303, San Diego, California, United States

**Prepared by**

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## TEST RESULT CERTIFICATION

**Applicant's name** ..... : ONE DIAMOND ELECTRONICS INC.

Address ..... : 1450 Frazee Road, Suite 303, San Diego, California, United States

**Manufacturer's Name** ..... : Shenzhen X&F Technology Co., Ltd.

Address ..... : Shenzhen, Nanshan District science and Technology Park Wandelai North Block Building 5&6 floor

### Product description

Product name ..... : Smart phone

Model and/or type reference : P5047A

..... : FCC Part15B:Apr 11.2017

**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.

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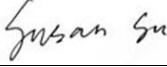
**Date of Test** .....

Date (s) of performance of tests ..... : 14 Apr. 2017 ~ 15 May. 2017

Date of Issue ..... : 15 May. 2017

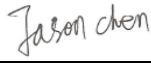
Test Result ..... : **Pass**

Testing Engineer

: 

(Susan Su)

Technical Manager

: 

(Jason Chen)

Authorized Signatory

: 

(Sam Chen)

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**1. TEST SUMMARY**

Test procedures according to the technical standards:

<b>EMC Emission</b>				
Standard	Test Item	Limit	Judgment	Remark
FCC Part15B:2014 ANSI C63.4: 2014	Conducted Emission	Class B	PASS	
	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 518126 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**

Equipment	Smart phone						
Trade Mark	Cosmo Z						
Model Name	P5047A						
Serial Model	P5047AD						
Model Difference	All the model are the same circuit and RF module, except the model No.						
Product Description	<p>The EUT is a Smart phone.</p> <table border="1"> <tr> <td>Connecting I/O port:</td> <td>USB, DC in</td> </tr> <tr> <td>Operation Frequency:</td> <td>           BT:2402~2480 MHz            WIFI:802.11b/g/n(20/40MHz):2412~2462MHz            GSM850: TX824.2MHz~848.8MHz            /RX869.2MHz~893.8MHz;            PCS1900: TX1850.2MHz~1909.8MHz            /RX1930.2MHz~1989.8MHz;            UMTS FDD Band V: TX826.4MHz~846.6MHz            /RX871.4MHz~891.6MHz;            UMTS FDD Band II:            TX1852.4MHz~1907.6MHz            /RX1932.4MHz~1987.6MHz;            LTE FDD Band 2 Uplink:            1850.7MHz-1909.3MHz,            Downlink: 1930.7MHz-1989.3MHz:            LTE FDD Band 4 Uplink: 1710MHz-1755MHz,            Downlink: 2110MHz-2155MHz            LTE FDD Band 5 Uplink: 824.7MHz-849MHz,            Downlink: 869.7MHz-894MHz            LTE FDD Band 7 Uplink: 2500MHz-2570MHz,            Downlink: 2620MHz-2690MHz         </td> </tr> <tr> <td>Modulation Type:</td> <td>           BT(1Mbps)/BLE: GFSK            BT EDR(2Mbps): <math>\pi/4</math>-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/GPRS: GMSK            WCDMA: QPSK            LTE FDD: QPSK,16QAM         </td> </tr> </table>	Connecting I/O port:	USB, DC in	Operation Frequency:	BT:2402~2480 MHz WIFI:802.11b/g/n(20/40MHz):2412~2462MHz GSM850: TX824.2MHz~848.8MHz /RX869.2MHz~893.8MHz; PCS1900: TX1850.2MHz~1909.8MHz /RX1930.2MHz~1989.8MHz; UMTS FDD Band V: TX826.4MHz~846.6MHz /RX871.4MHz~891.6MHz; UMTS FDD Band II: TX1852.4MHz~1907.6MHz /RX1932.4MHz~1987.6MHz; LTE FDD Band 2 Uplink: 1850.7MHz-1909.3MHz, Downlink: 1930.7MHz-1989.3MHz: LTE FDD Band 4 Uplink: 1710MHz-1755MHz, Downlink: 2110MHz-2155MHz LTE FDD Band 5 Uplink: 824.7MHz-849MHz, Downlink: 869.7MHz-894MHz LTE FDD Band 7 Uplink: 2500MHz-2570MHz, Downlink: 2620MHz-2690MHz	Modulation Type:	BT(1Mbps)/BLE: GFSK BT EDR(2Mbps): $\pi/4$ -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/GPRS: GMSK WCDMA: QPSK LTE FDD: QPSK,16QAM
Connecting I/O port:	USB, DC in						
Operation Frequency:	BT:2402~2480 MHz WIFI:802.11b/g/n(20/40MHz):2412~2462MHz GSM850: TX824.2MHz~848.8MHz /RX869.2MHz~893.8MHz; PCS1900: TX1850.2MHz~1909.8MHz /RX1930.2MHz~1989.8MHz; UMTS FDD Band V: TX826.4MHz~846.6MHz /RX871.4MHz~891.6MHz; UMTS FDD Band II: TX1852.4MHz~1907.6MHz /RX1932.4MHz~1987.6MHz; LTE FDD Band 2 Uplink: 1850.7MHz-1909.3MHz, Downlink: 1930.7MHz-1989.3MHz: LTE FDD Band 4 Uplink: 1710MHz-1755MHz, Downlink: 2110MHz-2155MHz LTE FDD Band 5 Uplink: 824.7MHz-849MHz, Downlink: 869.7MHz-894MHz LTE FDD Band 7 Uplink: 2500MHz-2570MHz, Downlink: 2620MHz-2690MHz						
Modulation Type:	BT(1Mbps)/BLE: GFSK BT EDR(2Mbps): $\pi/4$ -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/GPRS: GMSK WCDMA: QPSK LTE FDD: QPSK,16QAM						
Power Source	DC Voltage: DC 3.8V from Battery or DC 5V from USB Port.						
Adapter	Model: RD0501000-USBA-18MG Input:100~240V 50~60Hz 0.15mA Output:5V, 1000mA						
Battery	DC 3.8V, 2400mAh						

HW Version	vd9.72.f3
SW Version	B610MB

### 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	TF card Play
Mode 3	REC
Mode 4	BT
Mode 5	WIFI
Mode 6	GSM/WCDMA
Mode 7	LTE

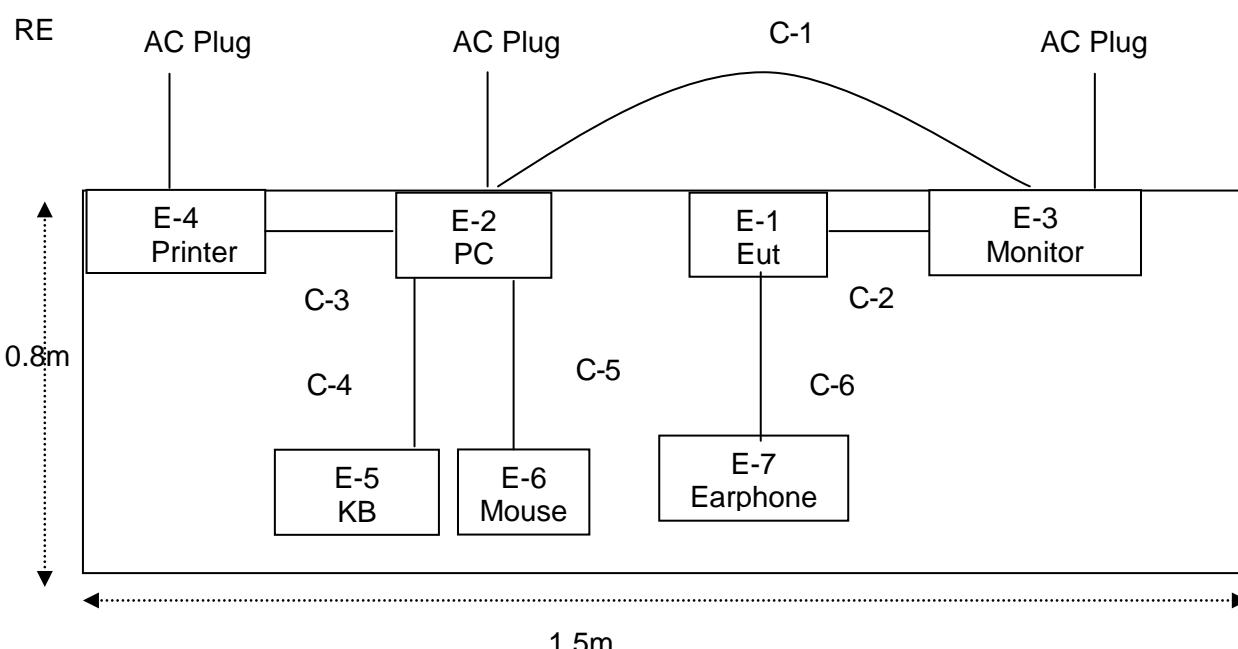
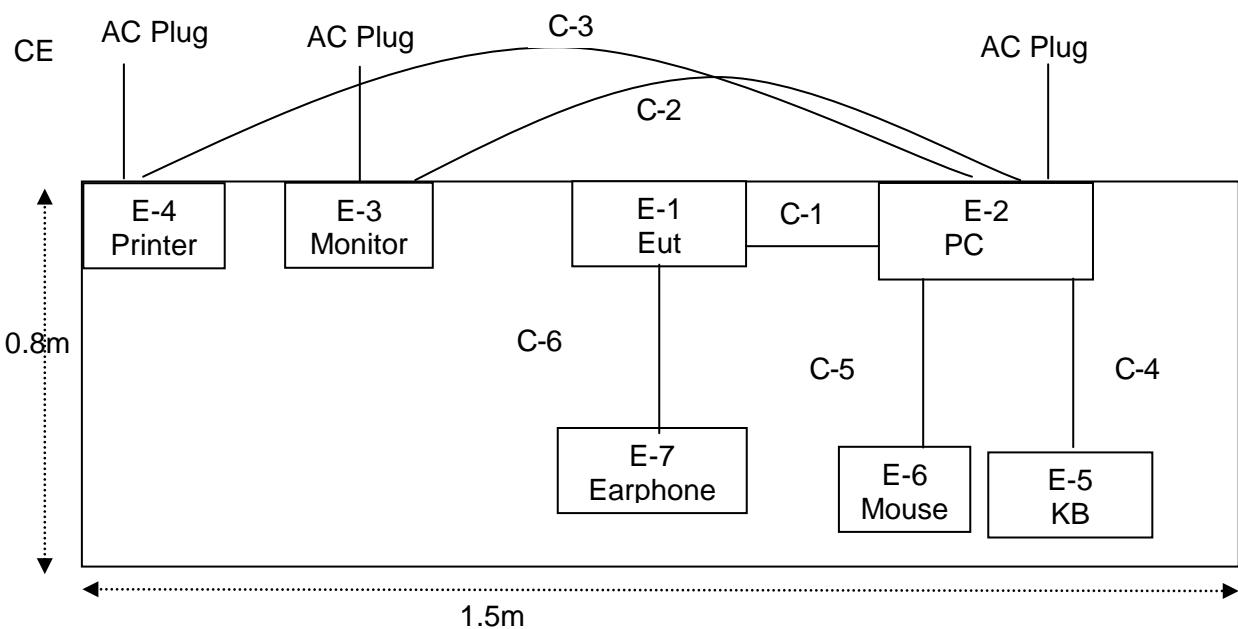
For Conducted Test	
Final Test Mode	Description
Mode 1	Connect to PC
Mode 2	TF card Play
Mode 3	REC
Mode 4	BT
Mode 5	WIFI
Mode 6	GSM/WCDMA
Mode 7	LTE

For Radiated Test	
Final Test Mode	Description
Mode 1	Connect to PC
Mode 2	TF card Play
Mode 3	REC
Mode 4	BT
Mode 5	WIFI
Mode 6	GSM/WCDMA
Mode 7	LTE

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.

## 2.2 DESCRIPTION OF TEST SETUP



### 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	Cosmo Z	P5047A	N/A	EUT
E-2	Personal computer	DELL	FT4Y23X	34413561645	PC
E-3	Monitor	DELL	IN2020MB	cn-0y6mhx-74261-11f-67 es	Peripherals
E-4	Printer	Canon	L11121E	LBP2900	Peripherals
E-5	KB	DELL	SK-8185	OY526KUS	
E-6	Mouse	DELL	MS111-P	cn-011d3v-71581-11e-1th 7	Peripherals
E-7	Earphone	N/A	2688	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable	NO	NO	1.5m	
C-2	HDMI Cable	NO	NO	1.0m	
C-3	USB Cable	NO	NO	1.5m	
C-4	KB Cable	NO	NO	1.2m	
C-5	Mouse Cable	NO	NO	1.2m	
C-5	Earphone Cable	NO	NO	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 『Length』 column.
- (3) "YES" means "shielded" "with core"; "NO" means "unshielded" "without core".

## 2.4 MEASUREMENT INSTRUMENTS LIST

### Radiation Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY45108040	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	6200264416	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-10180	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	2016.07.06	2017.07.05	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	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2016.06.06	2017.06.05	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	6200264417	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

### 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.

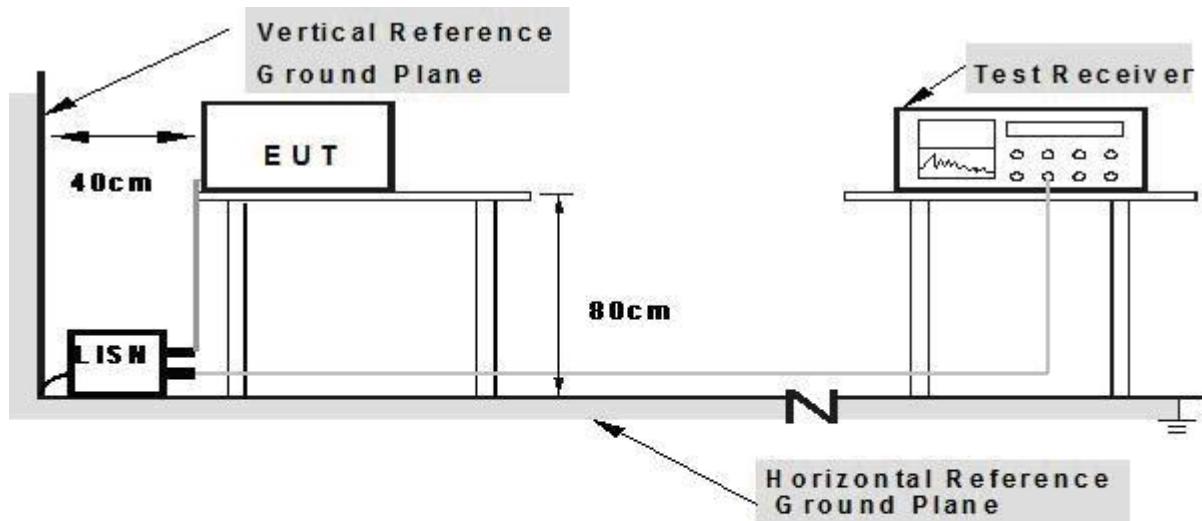
The following table is the setting of the receiver

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



**Note: 1. Support units were connected to second LISN.**

**2. Both of LISNs (AMH) are 80 cm from EUT and at least 80 cm 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.

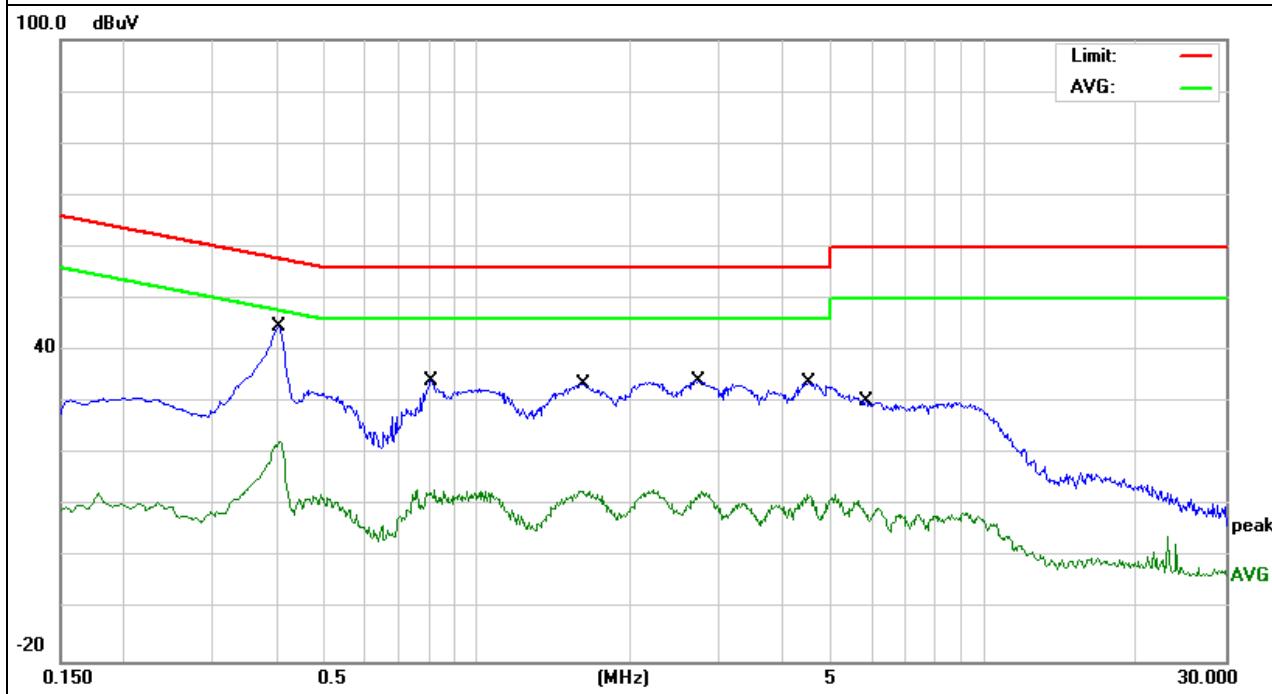
## 3.1.5 TEST RESULTS

EUT:	Smart phone	Model Name. :	P5047A
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2017-4-14
Test Mode:	Mode 1	Phase :	L
Test Voltage:	DC 5V from PC AC120V/60Hz		

Frequency (MHz)	Reading Level (dB $\mu$ V)	Correct Factor (dB)	Measure-ment (dB $\mu$ V)	Limits (dB $\mu$ V)	Margin (dB)	Remark
0.406	44.43	0.15	44.58	57.73	-13.15	QP
0.406	22.32	0.15	22.47	47.73	-25.26	AVG
0.81	33.98	0.2	34.18	56	-21.82	QP
0.81	12.26	0.2	12.46	46	-33.54	AVG
1.614	33.38	0.19	33.57	56	-22.43	QP
1.614	12.33	0.19	12.52	46	-33.48	AVG
2.726	34.02	0.19	34.21	56	-21.79	QP
2.726	12.05	0.19	12.24	46	-33.76	AVG
4.5179	33.51	0.24	33.75	56	-22.25	QP
4.5179	11.28	0.24	11.52	46	-34.48	AVG
5.8459	30.01	0.25	30.26	60	-29.74	QP
5.8459	7.8	0.25	8.05	50	-41.95	AVG

## Remark:

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

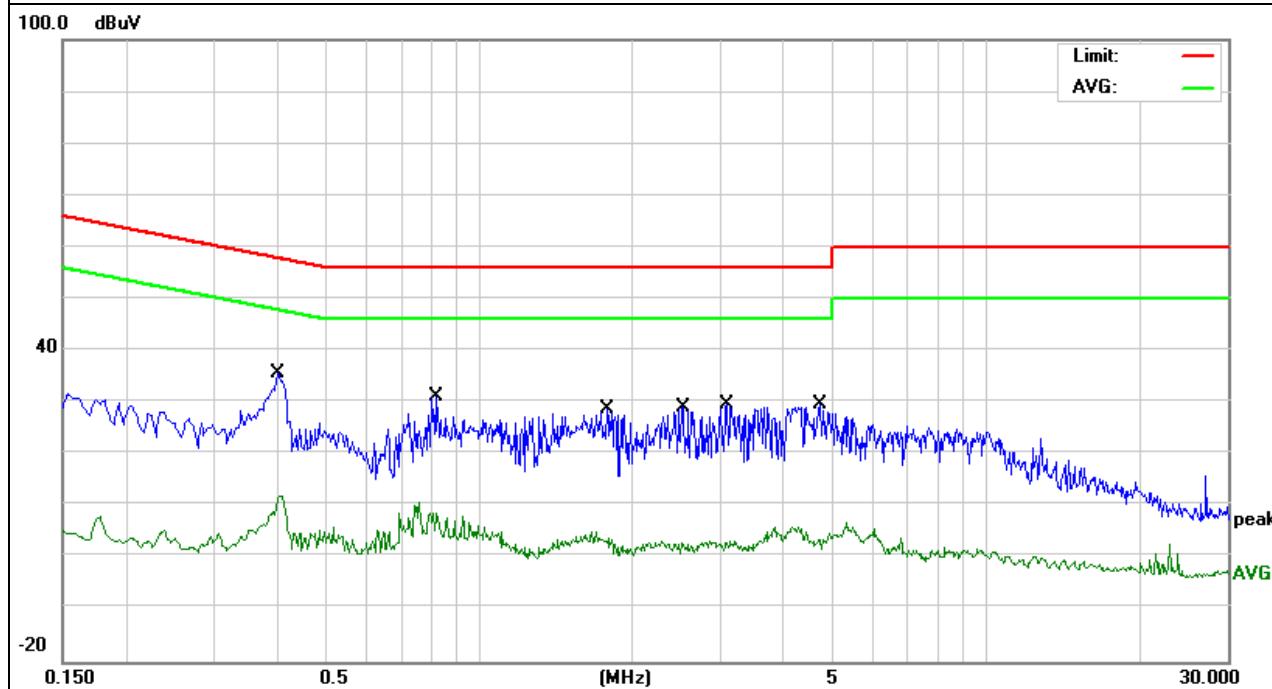


EUT:	Smart phone	Model Name. :	P5047A
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2017-4-14
Test Mode:	Mode 1	Phase :	N
Test Voltage:	DC 5V from PC AC120V/60Hz		

Frequency (MHz)	Reading Level (dB $\mu$ V)	Correct Factor (dB)	Measure-ment (dB $\mu$ V)	Limits (dB $\mu$ V)	Margin (dB)	Remark
0.398	35.63	0.16	35.79	57.89	-22.1	QP
0.398	11.51	0.16	11.67	47.89	-36.22	AVG
0.818	30.97	0.23	31.2	56	-24.8	QP
0.818	8.54	0.23	8.77	46	-37.23	AVG
1.782	28.59	0.21	28.8	56	-27.2	QP
1.782	2.83	0.21	3.04	46	-42.96	AVG
2.514	28.84	0.21	29.05	56	-26.95	QP
2.514	2.36	0.21	2.57	46	-43.43	AVG
3.082	29.4	0.21	29.61	56	-26.39	QP
3.082	2.87	0.21	3.08	46	-42.92	AVG
4.7099	29.5	0.23	29.73	56	-26.27	QP
4.7099	3.24	0.23	3.47	46	-42.53	AVG

## Remark:

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

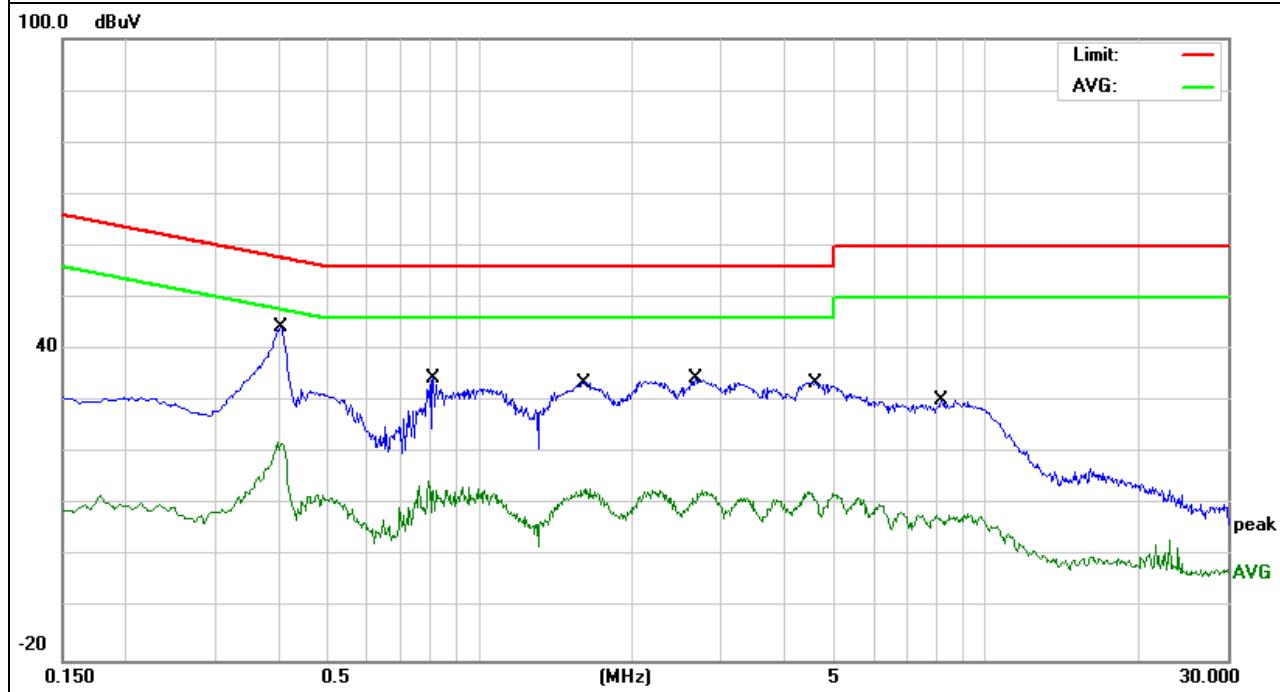


EUT:	Smart phone	Model Name. :	P5047A
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2017-4-14
Test Mode:	Mode 1	Phase :	L
Test Voltage:	DC 5V from PC AC240V/60Hz		

Frequency (MHz)	Reading Level (dB $\mu$ V)	Correct Factor (dB)	Measure-ment (dB $\mu$ V)	Limits (dB $\mu$ V)	Margin (dB)	Remark
0.406	44.34	0.15	44.49	57.73	-13.24	QP
0.406	21.83	0.15	21.98	47.73	-25.75	AVG
0.81	34.1	0.2	34.3	56	-21.7	QP
0.81	12.78	0.2	12.98	46	-33.02	AVG
1.6019	33.4	0.19	33.59	56	-22.41	QP
1.6019	12.66	0.19	12.85	46	-33.15	AVG
2.6659	34.11	0.19	34.3	56	-21.7	QP
2.6659	10.2	0.19	10.39	46	-35.61	AVG
4.6177	33.43	0.24	33.67	56	-22.33	QP
4.6177	10.96	0.24	11.2	46	-34.8	AVG
8.1859	29.89	0.27	30.16	60	-29.84	QP
8.1859	7.02	0.27	7.29	50	-42.71	AVG

## Remark:

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

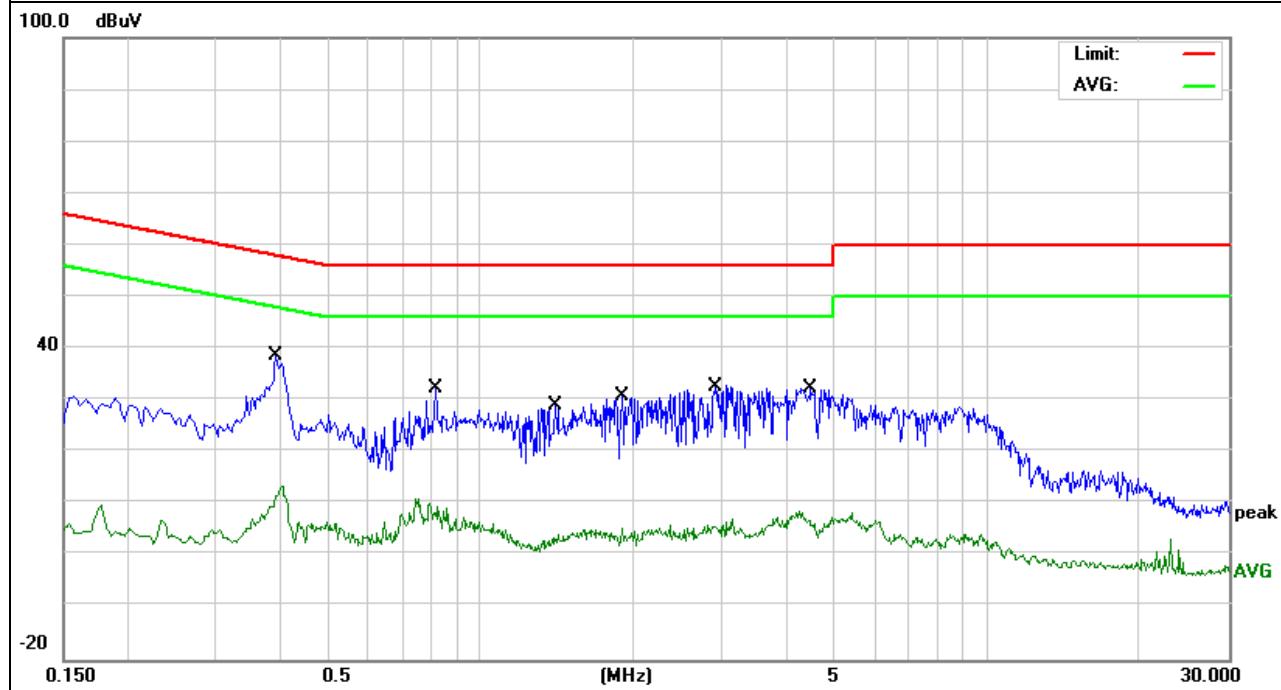


EUT:	Smart phone	Model Name. :	P5047A
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2017-4-14
Test Mode:	Mode 1	Phase :	N
Test Voltage:	DC 5V from PC AC240V/60Hz		

Frequency (MHz)	Reading Level (dB $\mu$ V)	Correct Factor (dB)	Measure-ment (dB $\mu$ V)	Limits (dB $\mu$ V)	Margin (dB)	Remark
0.394	38.43	0.16	38.59	57.98	-19.39	QP
0.394	11.39	0.16	11.55	47.98	-36.43	AVG
0.8139	32.19	0.23	32.42	56	-23.58	QP
0.8139	7.98	0.23	8.21	46	-37.79	AVG
1.4058	28.73	0.22	28.95	56	-27.05	QP
1.4058	3.15	0.22	3.37	46	-42.63	AVG
1.9019	30.69	0.2	30.89	56	-25.11	QP
1.9019	5.04	0.2	5.24	46	-40.76	AVG
2.914	32.28	0.22	32.5	56	-23.5	QP
2.914	5.32	0.22	5.54	46	-40.46	AVG
4.4818	32.21	0.22	32.43	56	-23.57	QP
4.4818	5.66	0.22	5.88	46	-40.12	AVG

## Remark:

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



### 3.2 RADIATED EMISSION MEASUREMENT

#### 3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 3m)
	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.

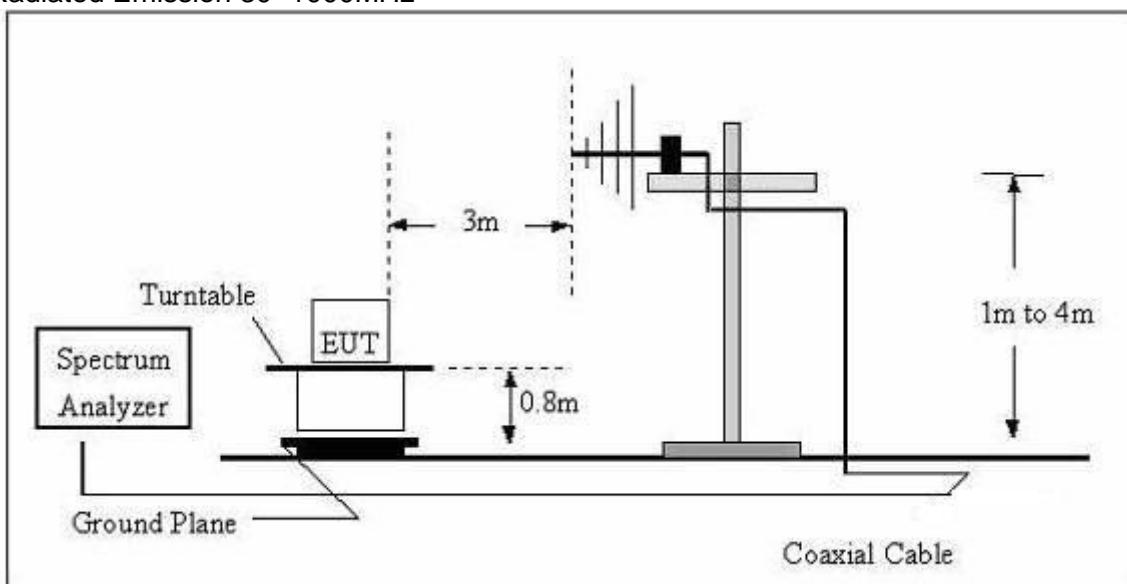
Note: For the hand-held device, the EUT should be measured for all 3 axes and only the worst case is recorded in the report

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

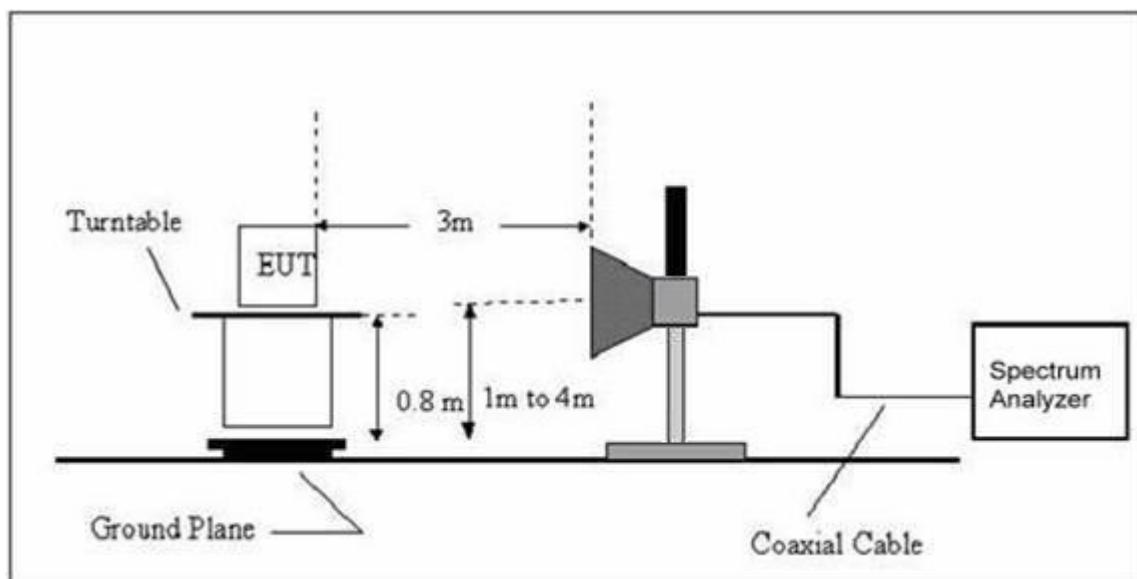
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
	Avg	1 MHz	10 Hz

### 3.2.3 TEST SETUP

For Radiated Emission 30~1000MHz



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



## 3.2.4 TEST RESULTS

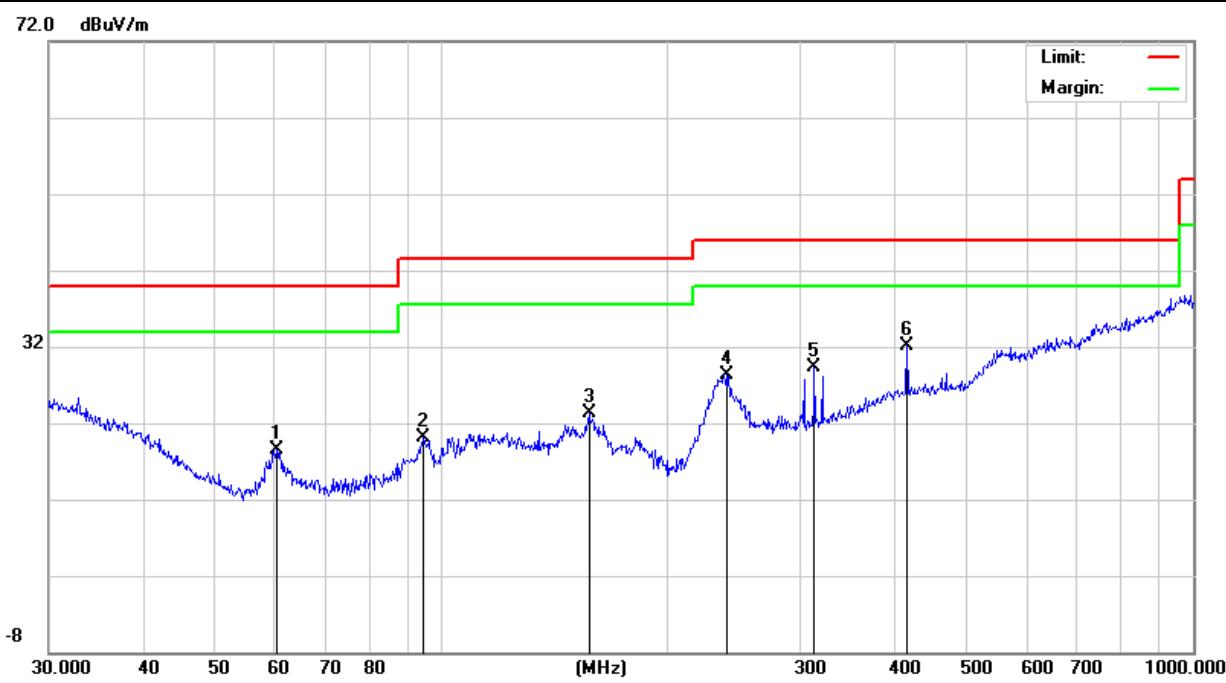
## TEST RESULTS (30~1000 MHz)

EUT:	Smart phone	Model Name:	P5047A
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2017-4-14
Test Mode :	Mode 1	Polarization :	Horizontal
Test Power :	DC 5V from PC AC120V/60Hz		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	60.2801	12.21	6.37	18.58	40	-21.42	QP
H	94.4282	8.76	11.38	20.14	43.5	-23.36	QP
H	157.0074	10.78	12.44	23.22	43.5	-20.28	QP
H	239.9874	15.11	13.18	28.29	46	-17.71	QP
H	313.276	12.59	16.69	29.28	46	-16.72	QP
H	416.1791	11.59	20.45	32.04	46	-13.96	QP

## Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.

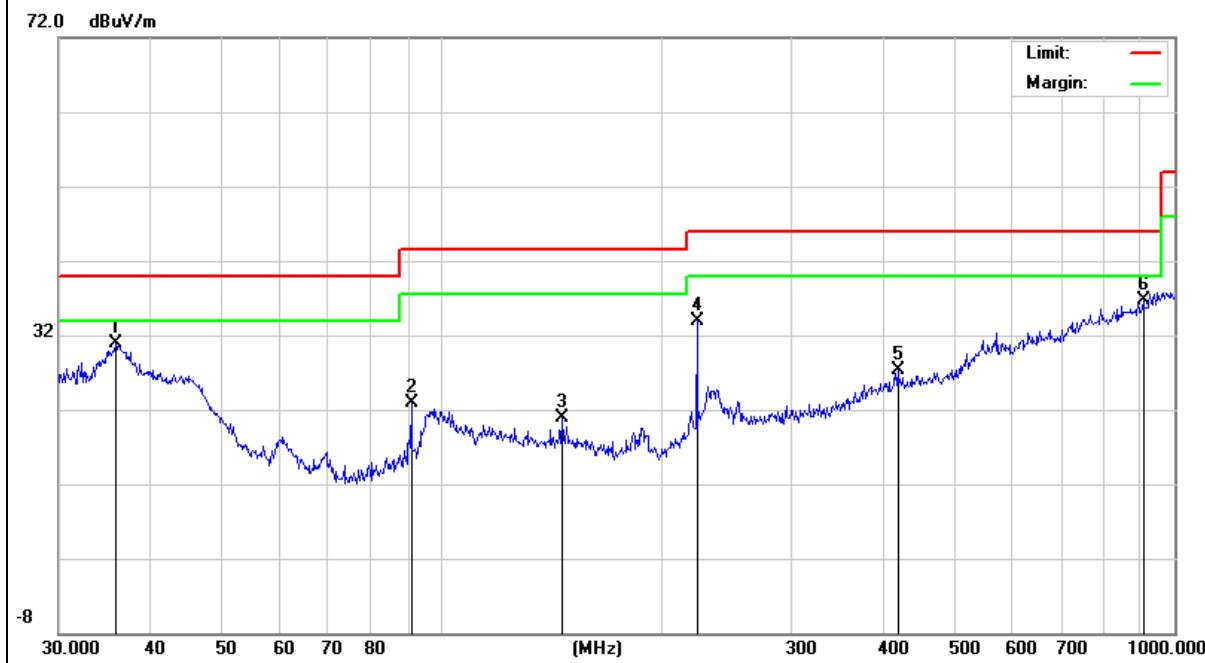


EUT:	Smart phone	Model Name :	P5047A
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2017-4-14
Test Mode :	Mode 1	Polarization :	Vertical
Test Power :	DC 5V from PC AC120V/60Hz		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	35.8746	13.96	16.85	30.81	40	-9.19	QP
V	90.8554	12.21	10.79	23	43.5	-20.5	QP
V	145.8609	7.84	13	20.84	43.5	-22.66	QP
V	222.9502	21.54	12.32	33.86	46	-12.14	QP
V	419.108	6.82	20.48	27.3	46	-18.7	QP
V	906.4824	6.98	29.67	36.65	46	-9.35	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



## 3.2.5 TEST RESULTS(1000~6000MHz)

EUT:	Smart phone	Model Name :	P5047A
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2017-4-14
Test Mode :	Mode 1		
Test Power :	DC 5V from PC AC120V/60Hz		

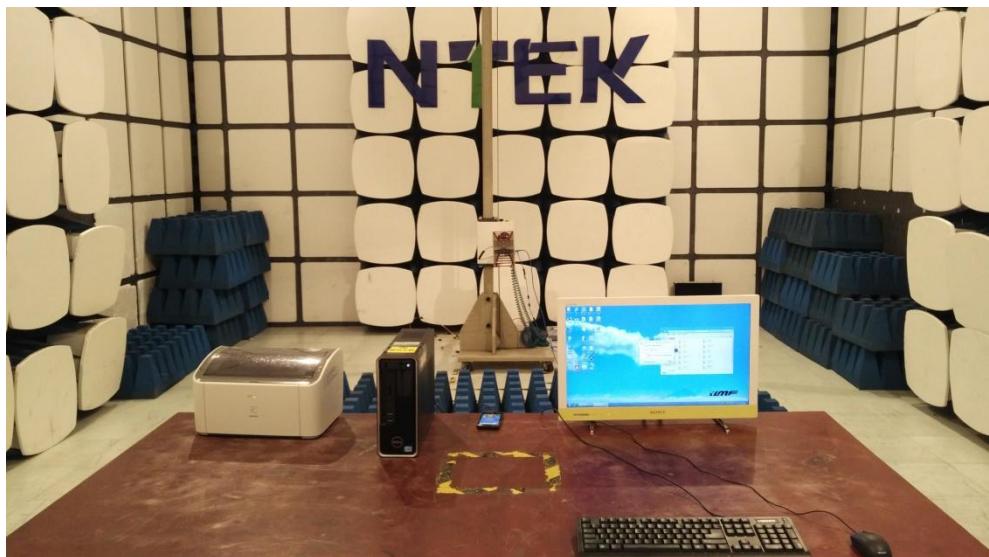
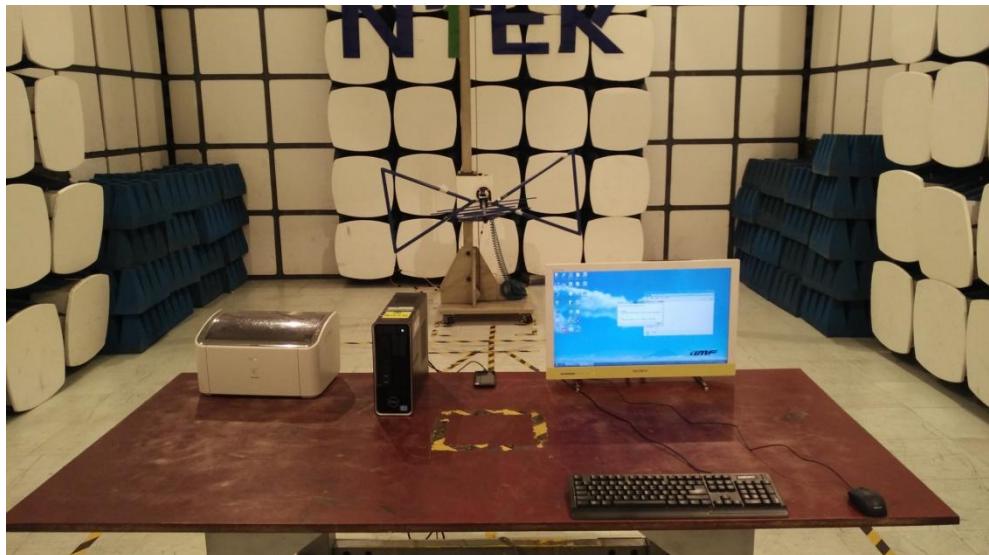
All the modulation modes have been tested, and the worst result was report as below:

Polar (H/V)	Frequenc y	Reading	Correc t	Result	Limit	Over Limit	Remark
	(MHz)	(dBuV/m )	dB/m	(dBuV/m )	(dBuV/m )	(dB)	
V	3393.90	41.01	-5.37	35.64	74.00	-38.36	Pk
V	3393.90	28.25	-5.37	22.88	54.00	-31.12	AV
V	3959.32	39.80	-2.78	37.02	74.00	-36.98	Pk
V	3959.32	27.14	-2.78	24.36	54.00	-29.64	AV
H	4002.11	40.26	-2.65	37.61	74.00	-36.39	Pk
H	4002.11	27.15	-2.65	24.50	54.00	-29.50	AV
H	5208.08	38.07	0.75	38.82	74.00	-35.18	Pk
H	5208.08	26.24	0.75	26.99	54.00	-27.01	AV

Remark:

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

Note: Only the worst results data points are reported in the report.

**4. EUT TEST PHOTO****Radiated Measurement Photos**

**Conducted Measurement Photos**