

Test Report of FCC CFR 47 Part 15 Subpart B

On Behalf of

Shen Zhen MTC Co., LTD

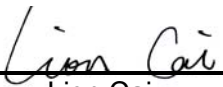
FCC ID: UVD-7M6XS
Product Description: Android MID
Test Model No.: MD7081
Supplementary Model: MD7***(* can from 0 to 9), DAA730R, DAA738R
Brand Name: AMTC, RCA

Prepared for: Shen Zhen MTC Co., LTD
31-32/F A Xing He Shi Ji Bldg, 3069 Cai Tian Road, Shenzhen,
P.R. China

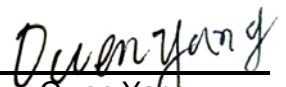
Prepared by: Bontek Compliance Testing Laboratory Co., Ltd
1/F, Block East H-3, OCT Eastern Ind. Zone, Qiaocheng East
Road, Nanshan, Shenzhen, China
Tel: 86-755-86337020
Fax: 86-755-86337028

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Tested by:


Lion Cai

Reviewed by:


Owen.Yang

Approved by:



Kendy Wang

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1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant:	Shen Zhen MTC Co., LTD
Address of Applicant:	31-32/F A Xing He Shi Ji Bldg, 3069 Cai Tian Road, Shenzhen, P.R. China
Manufacturer:	Shen Zhen MTC Co., LTD
Address of Manufacturer:	31-32/F A Xing He Shi Ji Bldg, 3069 Cai Tian Road, Shenzhen, P.R. China

General Description of E.U.T

Items	Description
EUT Description:	Android MID
Trade Name:	AMTC, RCA
Test Model No.:	MD7081
Supplementary Model:	MD7*** (* can from 0 to 9), DAA730R, DAA738R
Power Supply:	Input: 5VDC 1.5A from AC/DC adapter
Adapter Information:	Model:DC050200130 Input: AC 100-240V 50/60Hz 0.3A Output: 5VDC 2.0A

Remark: * The test data gathered are from the production sample provided by the manufacturer.
* Supplementary models have the same circuit, but with different appearance

1.2 Test Standards

The report of EUT is prepared in accordance with FCC Rules and Regulations Part 15 Subpart B 2006. The objective of the manufacturer is to demonstrate compliance with the described above standards.

1.3 Test Facility

All measurement required was performed at laboratory of Bontek Compliance Testing Laboratory Ltd at 1/F, Block East H-3, OCT Eastern Ind. Zone, Qiaocheng East Road, Nanshan, Shenzhen, China.

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

FCC – Registration No.: 338263

BONTEK COMPLIANCE TESTING LABORATORY LTD. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 338263, March 03, 2011.

IC Registration No.: 7631A

The 3m alternate test site of BONTEK COMPLIANCE TESTING LABORATORY LTD. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 7631A on January 25, 2011.

CNAS - Registration No.: L3923

BONTEK COMPLIANCE TESTING LABORATORY LTD. to ISO/IEC 17025:25 General Requirements for the Competence of Testing and Calibration Laboratories(CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing. The acceptance letter from the CNAS is maintained in our files: Registration: L3923, March 22, 2012.

TUV – Registration No.: 50242657-0001

Shenzhen Bontek Compliance Testing Laboratory Co., Ltd. An assessment of the laboratory was conducted according to the "Procedures and Conditions for EMC Test Laboratories" with reference to EN ISO/IEC 17025 by a TUV Rheinland auditor. Audit Report NO. 17010783-003

2. SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2 Support Equipments

The calibrated antennas used to sample the radiated field strength are mounted on a non-conductive, motorized antenna mast 3 or 10 meters from the leading edge of the turntable.

Support equipments or special accessories in test configuration:

AUX Description:	Manufacturer	Model No.	Certificate	CABLE
Host Computer	Dell	78MD82X	CE, FCC	1.5m Unshielded Power Cord
Monitor	Dell	E178Pc	CE, FCC	1.5m Unshielded Power Cord 1.8m shielded data Cable with core
Keyboard	Dell	L100	CE, FCC	1.8m shielded data Cable with core
Mouse	Dell	OCJ339	CE, FCC	1.8m shielded data Cable with core
Printer	EPSON	P330A	CE, FCC	1.2m Unshielded Power Cord 1.5m shielded data Cable

2.3 General Test Procedures

Conducted Emissions:The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 7.1 of ANSI C63.4-2003 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak detector mode.

Radiated Emissions: The EUT is a placed on as turntable, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4-2003.

2.4 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty
Power Line Conducted Emission	+/- 2.3 dB
Radiated Emission	+/- 3.4 dB

Uncertainty figures are valid to a confidence level of 95%.

2.5 List of Measuring Equipments Used

Test equipments list of Shenzhen Bontek Compliance Testing Laboratory Co., Ltd.

No.	Equipment	Manufacturer	Model No.	S/N	Calibration date	Calibration due date
1	EMI Test Receiver	R&S	ESCI	100687	2013-4-5	2014-4-4
2	EMI Test Receiver	R&S	ESPI	100097	2013-7-24	2014-7-23
3	Amplifier	HP	8447D	1937A02492	2013-4-5	2014-4-4
4	Single Power Conductor Module	FCC	FCC-LISN-5-50-1-01-CISPR25	07101	2013-4-5	2014-4-4
5	Single Power Conductor Module	FCC	FCC-LISN-5-50-1-01-CISPR25	07102	2013-4-5	2014-4-4
6	Positioning Controller	C&C	CC-C-1F	MF7802113	N/A	N/A
7	Signal generator	Rhode & Schwarz	SMIQ 03HD + option SM-B1, SMIQB11, SMIQB12, SMIQB14, SMIQB17, SMIQB20	1125.5555.46	2013-4-5	2014-4-4
8	GSM system simulator	Rhode & Schwarz	CMU200 + option K20, K21, K22, K23, K24, K27, K28, K29, K42, K65, B12, B41, B52, B66, B56	1100.0008.34	2013-4-5	2014-4-4
9	GSM system simulator	Agilent	8960 Series 10 E1985A + GSM_AMPS	B.01.76 GB42450443	2013-4-5	2014-4-4
10	Spectrum Analyzer	Agilent	E4404B	US41192833	2013-4-5	2014-4-4
11	6dB Attenuator	Atten	Attenuator	DC-4GHz	2013-4-5	2014-4-4
12	Digital Multimeter	Fluke	15B	91280239	2013-4-5	2014-4-4
13	TRILOG Broadband Test-Antenna	SCHWARZBECK	VULB9163	9163-324	2013-4-9	2014-4-8
14	Horn Antenna	SCHWARZBECK	BBHA9120A	0499	2012-11-27	2013-11-26
15	Active Loop Antenna	DAZE	ZN30900A	1200	2013-4-6	2014-4-5
16	9kHz-2.4GHz signal generator 2024	MARCONI	10S/6625-99-457-8730	112260/042	2013-4-5	2014-4-4
17	10dB attenuator	ELECTRO-METRICS	EM-7600	836	2013-4-5	2014-4-4
18	Spectrum Analyzer	R&S	FSP	100397	2012-11-1	2013-10-31
19	Broadband preamplifier	SCHWARZBECK	BBV9718	9718-182	2013-4-5	2014-4-4
20	Temperature & Humidity Chamber	TOPSTAT	TOS-831A	3438A05208	2013-4-5	2014-4-4

3. SUMMARY OF TEST RESULTS

Standard	Test Items	Result
FCC Part 15 Subpart B	Conduction Emission, 0.15MHz to 30MHz	Pass
FCC Part 15 Subpart B	Radiation Emission, 30MHz to 1000MHz	Pass

4. TEST OF AC POWER LINE CONDUCTED EMISSION

4.1 Limit of AC Power Line Conducted Emission

Frequency Range (MHz)	Limits (dBuV)	
	Quasi-Peak	Average
0.150~0.500	66~56	56~46
0.500~5.000	56	46
5.000~30.00	60	50

4.2 EUT Setup

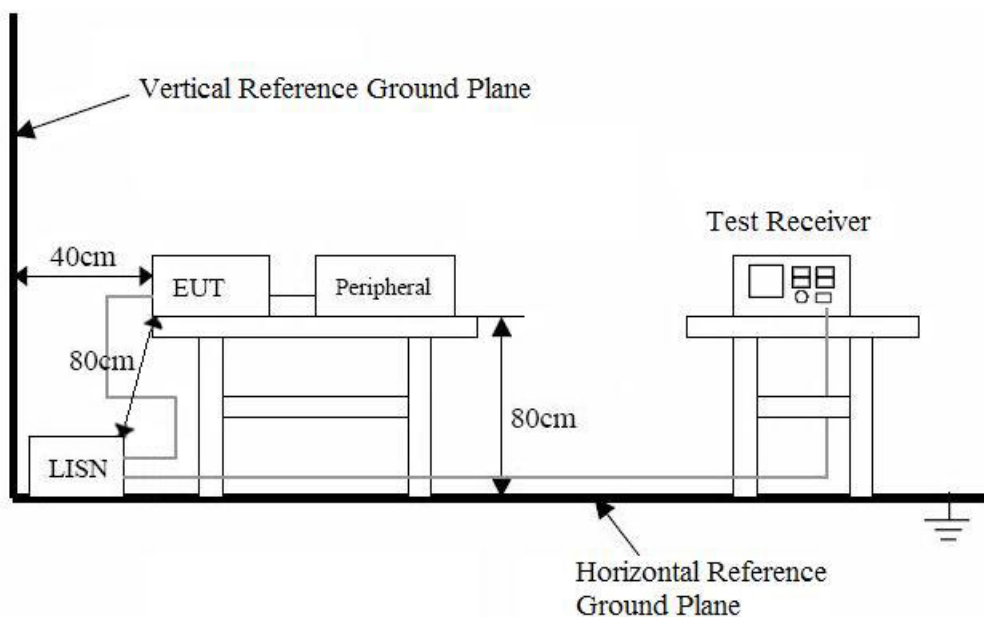
The setup of EUT is according with ANSI C63.4-2003 measurement procedure. The specification used was the FCC Rules and Regulations Part 15 Subpart B limits.

The EUT was placed center and the back edge of the test table.

The AV cables were draped along the test table and bundled to 30-40cm in the middle.

The spacing between the peripherals was 10 cm.

Maximum emission emitted from EUT was determined by manipulating the EUT, support equipment, interconnecting cables and varying the mode of operation and the levels in the final result of the test were recorded with the EUT running in the operating mode that maximum emission was emitted.



Remark: The EUT was connected to a 120VAC/ 60Hz power source.

4.3 Instrument Setup

The test receiver was set with the following configurations:

Test Receiver Setting:

Frequency Range.....150 KHz to 30 MHz
Detector.....Peak & Quasi-Peak & Average
Sweep Speed.....Auto
IF Band Width.....9 KHz

4.4 Test Procedure

During the conducted emission test, the EUT power cord was connected to the auxiliary outlet of the first Artificial Mains.

Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance using all installation combination.

All data was recorded in the peak detection mode. Quasi-peak and Average readings were only performed when an emission was found to be marginal (within -10 dB μ V of specification limits). Quasi-peak readings are distinguished with a "QP". Average readings are distinguished with a "AV".

4.5 Test Result

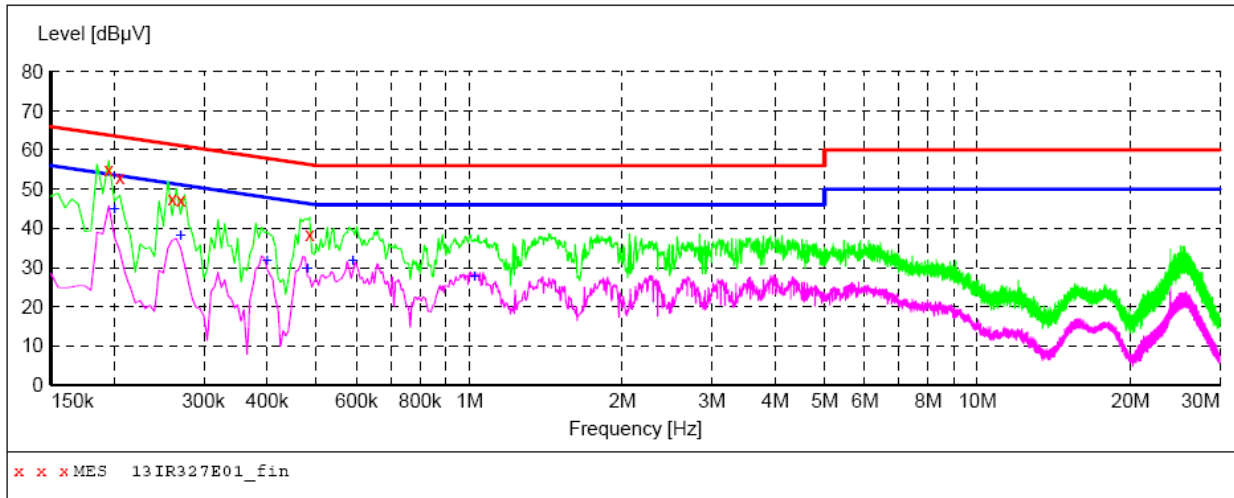
Temperature (°C) : 22~23	EUT: Android MID
Humidity (%RH) : 50~54	M/N: MD7081
Barometric Pressure (mbar) : 950~1000	Operation Condition: Connect to PC & SD /Charging & Camera/ SD Playing/HDMI Playing

Note: In all test modes, Connect to PC & SD, HDMI Playing ,Charging & Camera is the worst-case.

Conducted Emission:

EUT: Android MID
 M/N: MD7081
 Operating Condition: Charging & Camera
 Test Site: Shielded Room
 Operator: Yang
 Test Specification: AC 120V/60Hz for adapter
 Comment: L Line

SCAN TABLE: "Voltage (150K-30M) FIN"
 Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "13IR327E01_fin"

9/30/2013 16:49

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.195000	55.00	11.5	64	8.8	QP	L1	GND
0.205000	53.00	11.3	63	10.4	QP	L1	GND
0.260000	47.60	11.1	61	13.8	QP	L1	GND
0.270000	47.40	11.1	61	13.7	QP	L1	GND
0.485000	38.60	10.5	56	17.7	QP	L1	GND

MEASUREMENT RESULT: "13IR327E01_fin2"

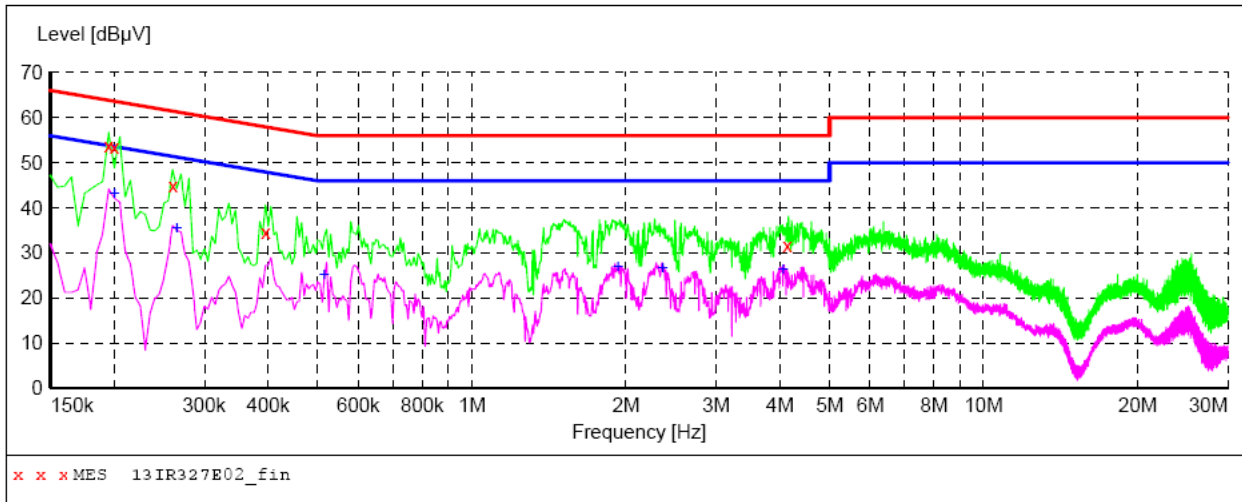
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Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.200000	44.90	11.3	54	8.7	AV	L1	GND
0.270000	38.30	11.1	51	12.8	AV	L1	GND
0.400000	31.70	10.7	48	16.2	AV	L1	GND
0.480000	29.90	10.5	46	16.4	AV	L1	GND
0.590000	31.70	10.4	46	14.3	AV	L1	GND
1.025000	27.80	10.5	46	18.2	AV	L1	GND

Conducted Emission:

EUT: Android MID
M/N: MD7081
Operating Condition: Charging & Camera
Test Site: Shielded Room
Operator: Yang
Test Specification: AC 120V/60Hz for adapter
Comment: N Line

SCAN TABLE: "Voltage (150K-30M) FIN"
Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "13IR327E02_fin"

9/30/2013 16:52

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.195000	53.80	11.5	64	10.0	QP	N	GND
0.200000	53.50	11.3	64	10.1	QP	N	GND
0.260000	45.00	11.1	61	16.4	QP	N	GND
0.395000	34.60	10.7	58	23.4	QP	N	GND
4.130000	31.50	10.4	56	24.5	QP	N	GND

MEASUREMENT RESULT: "13IR327E02_fin2"

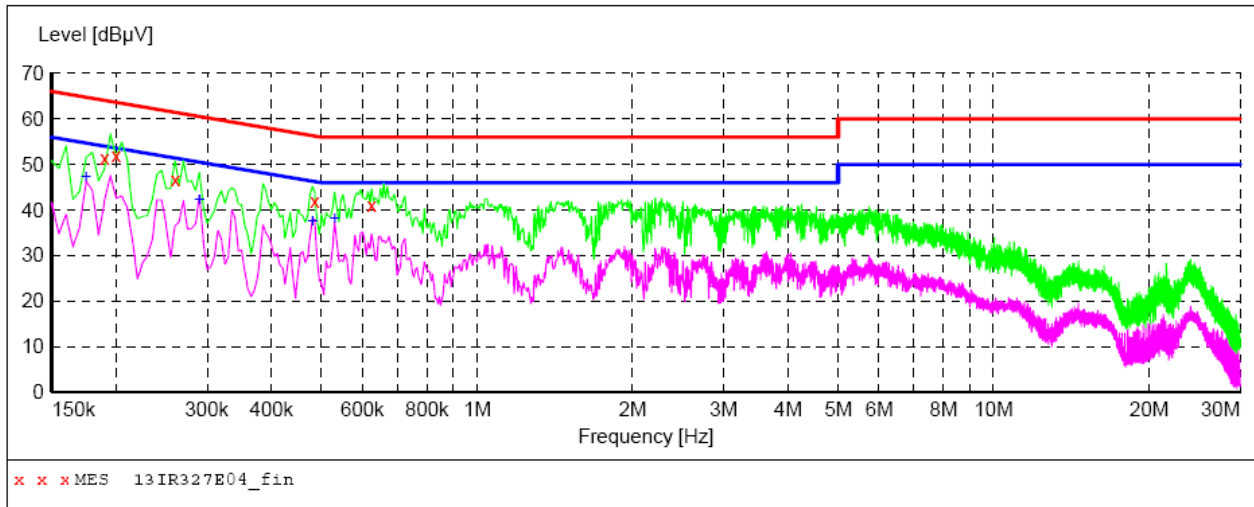
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Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.200000	43.20	11.3	54	10.4	AV	N	GND
0.265000	35.60	11.1	51	15.7	AV	N	GND
0.515000	25.20	10.5	46	20.8	AV	N	GND
1.930000	26.80	10.4	46	19.2	AV	N	GND
2.360000	26.50	10.4	46	19.5	AV	N	GND
4.055000	26.20	10.4	46	19.8	AV	N	GND

Conducted Emission:

EUT: Android MID
M/N: MD7081
Operating Condition: HDMI Playing
Test Site: Shielded Room
Operator: Yang
Test Specification: AC 120V/60Hz for adapter
Comment: L Line

SCAN TABLE: "Voltage (150K-30M) FIN"
Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "13IR327E04_fin"

9/30/2013 17:01

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.190000	51.40	11.7	64	12.6	QP	L1	GND
0.200000	52.00	11.3	64	11.6	QP	L1	GND
0.260000	46.60	11.1	61	14.8	QP	L1	GND
0.485000	41.90	10.5	56	14.4	QP	L1	GND
0.625000	41.20	10.4	56	14.8	QP	L1	GND

MEASUREMENT RESULT: "13IR327E04_fin2"

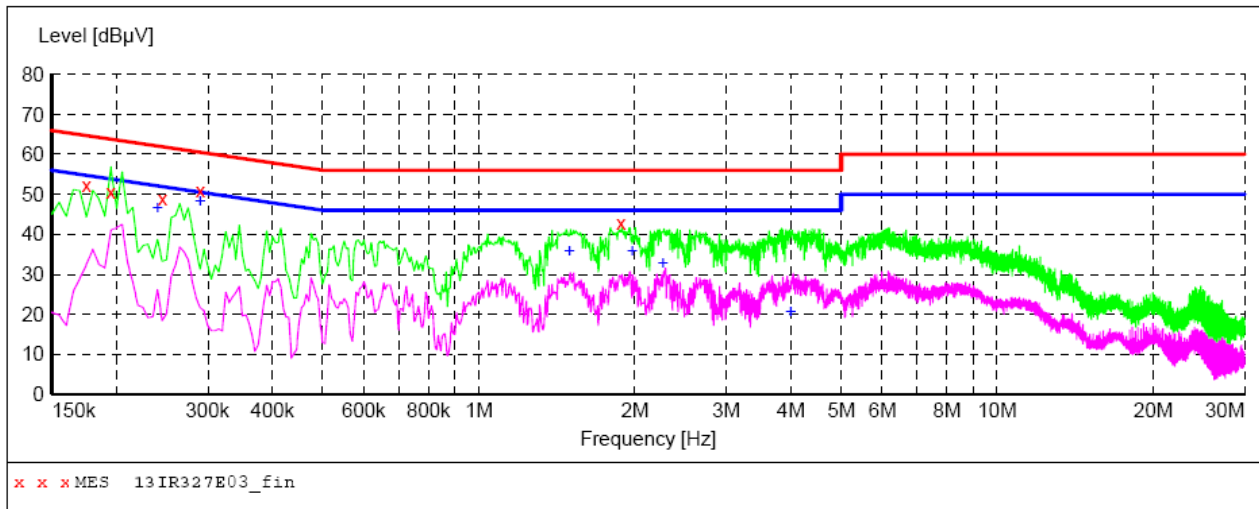
9/30/2013 17:01

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.175000	47.20	12.3	55	7.5	AV	L1	GND
0.290000	42.20	11.0	51	8.3	AV	L1	GND
0.480000	37.40	10.5	46	8.9	AV	L1	GND
0.530000	38.00	10.5	46	8.0	AV	L1	GND

Conducted Emission:

EUT: Android MID
 M/N: MD7081
 Operating Condition: HDMI Playing
 Test Site: Shielded Room
 Operator: Yang
 Test Specification: AC 120V/60Hz for adapter
 Comment: N Line

SCAN TABLE: "Voltage (150K-30M) FIN"
 Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "13IR327E03_fin"

9/30/2013 16:59

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.175000	56.20	12.3	65	8.5	QP	N	GND
0.195000	54.70	11.5	64	9.1	QP	N	GND
0.245000	52.90	11.1	62	9.0	QP	N	GND
0.290000	55.10	11.0	61	5.4	QP	N	GND
1.880000	46.80	10.4	56	9.2	QP	N	GND

MEASUREMENT RESULT: "13IR327E03_fin2"

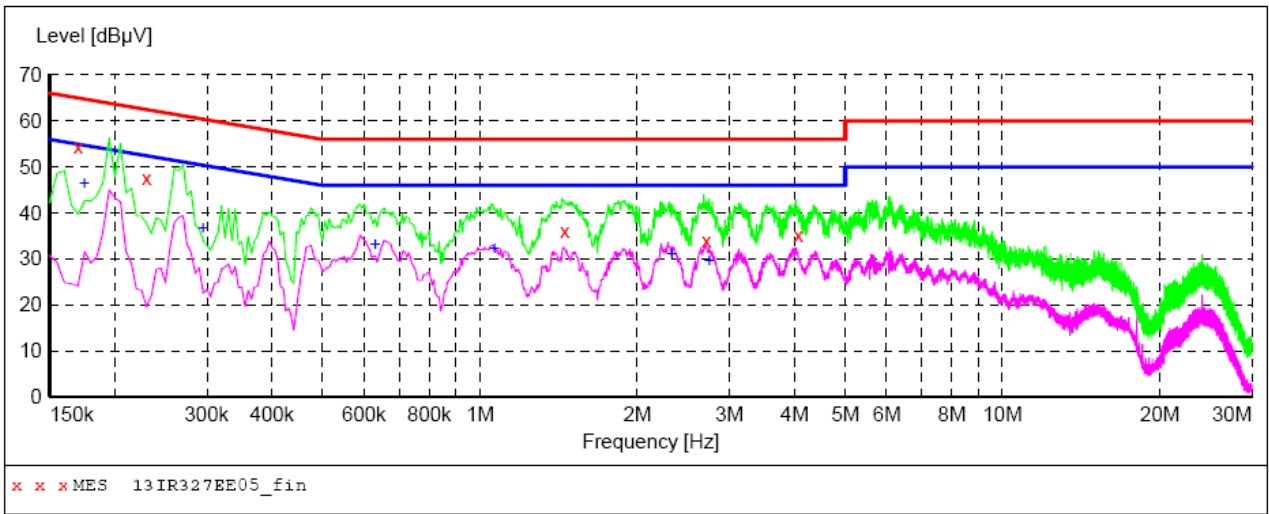
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Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.240000	50.60	11.2	52	1.5	AV	N	GND
0.290000	40.90	11.0	51	2.0	AV	N	GND
1.495000	39.80	10.4	46	6.2	AV	N	GND
1.975000	39.60	10.4	46	6.4	AV	N	GND
2.265000	36.60	10.4	46	9.4	AV	N	GND
4.000000	24.60	10.4	46	21.4	AV	N	GND

Conducted Emission:

EUT: Android MID
 M/N: MD7081
 Operating Condition: Connect to PC & SD
 Test Site: Shielded Room
 Operator: Yang
 Test Specification: AC 120V/60Hz for adapter
 Comment: L Line

SCAN TABLE: "Voltage (150K-30M) FIN"
 Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "13IR327E05_fin"

9/30/2013 17:22

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.170000	54.50	12.5	65	10.5	QP	L1	GND
0.230000	47.40	11.2	62	15.0	QP	L1	GND
1.450000	35.90	10.4	56	20.1	QP	L1	GND
2.710000	34.00	10.4	56	22.0	QP	L1	GND
4.060000	35.00	10.4	56	21.0	QP	L1	GND

MEASUREMENT RESULT: "13IR327E05_fin2"

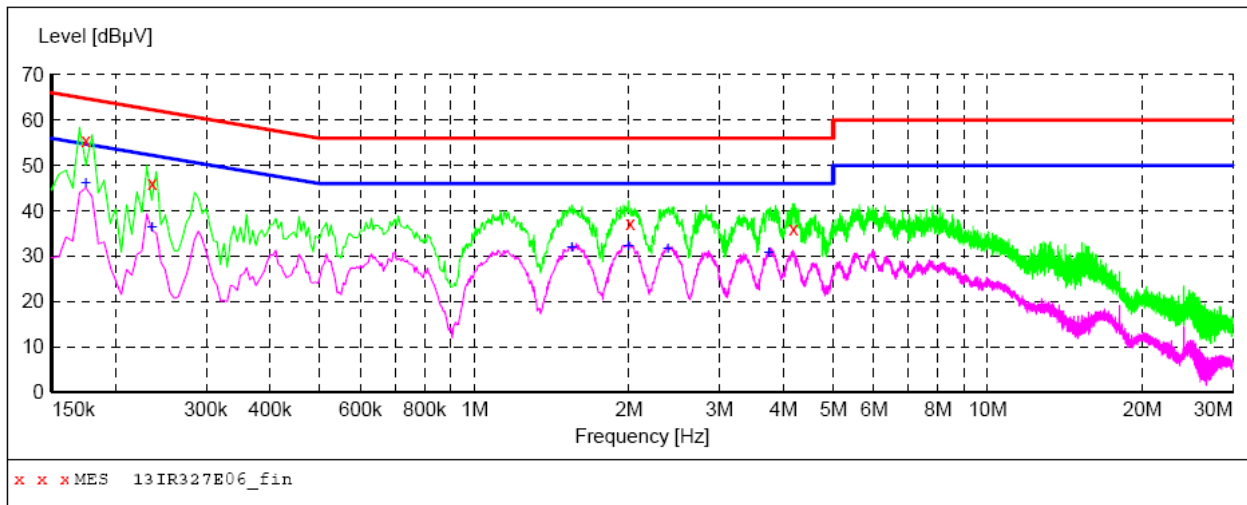
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Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.175000	46.20	12.3	55	8.5	AV	L1	GND
0.295000	36.70	11.0	50	13.7	AV	L1	GND
0.630000	33.10	10.4	46	12.9	AV	L1	GND
1.065000	32.10	10.5	46	13.9	AV	L1	GND
2.325000	30.90	10.4	46	15.1	AV	L1	GND
2.745000	29.60	10.4	46	16.4	AV	L1	GND

Conducted Emission:

EUT: Android MID
M/N: MD7081
Operating Condition: Connect to PC & SD
Test Site: Shielded Room
Operator: Yang
Test Specification: AC 120V/60Hz for adapter
Comment: N Line

SCAN TABLE: "Voltage(150K-30M)FIN"
Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "13IR327E06_fin"

9/30/2013 17:24

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.175000	55.50	12.3	65	9.2	QP	N	GND
0.235000	46.00	11.2	62	16.3	QP	N	GND
2.010000	37.20	10.4	56	18.8	QP	N	GND
4.185000	35.90	10.4	56	20.1	QP	N	GND

MEASUREMENT RESULT: "13IR327E06_fin2"

9/30/2013 17:24

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.175000	46.10	12.3	55	8.6	AV	N	GND
0.235000	36.30	11.2	52	16.0	AV	N	GND
1.550000	32.00	10.4	46	14.0	AV	N	GND
1.995000	32.20	10.4	46	13.8	AV	N	GND
2.380000	31.50	10.4	46	14.5	AV	N	GND
3.745000	30.60	10.4	46	15.4	AV	N	GND

5 - RADIATED DISTURBANCES

5.1 Limit of Radiated Disturbances

Frequency (MHz)	Distance (Meters)	Field Strengths Limits (dB μ V/m)
30 ~ 88	3	40
88~216	3	43.5
216 ~ 960	3	46
960 ~ 1000	3	54

Note:

- (1) The tighter limit shall apply at the edge between two frequency bands.
- (2) Distance refers to the distance in meters between the test instrument antenna and the closest point of any part of the E.U.T.

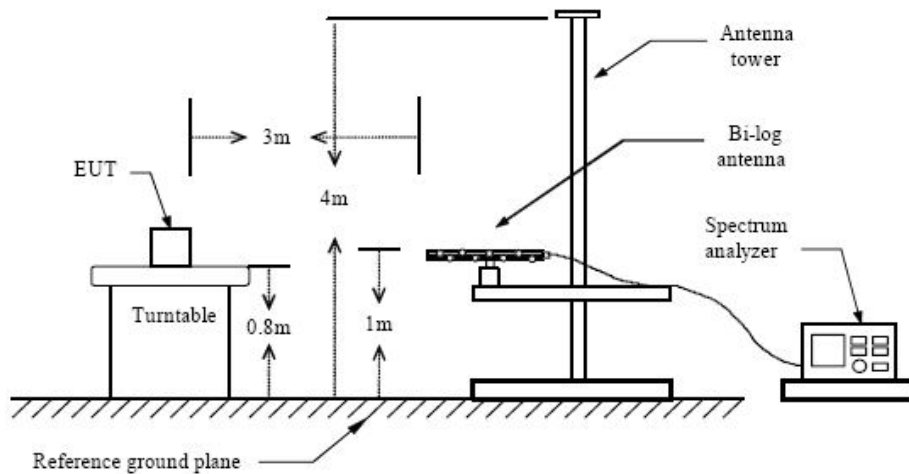
5.2 EUT Setup

The radiated emission tests were performed in the in the 3-meter anechoic chamber, using the setup accordance with the ANSI C63.4-2003. The specification used was the FCC Part 15 Subpart B limits.

The EUT was placed on the center of the test table.

Maximum emission emitted from EUT was determined by manipulating the EUT, support equipment, interconnecting cables and varying the mode of operation and the levels in the final result of the test were recorded with the EUT running in the operating mode that maximum emission was emitted.

Below 1 GHz



5.3 Test Receiver Setup

According to FCC Part 15 rule, the frequency was investigated from 30 to 1000 MHz. During the radiated emission test, the test receiver was set with the following configurations:

Test Receiver Setting:

Detector.....Peak & Quasi-Peak
IF Band Width.....120KHz
Frequency Range.....30MHz to 1000MHz
Turntable Rotated.....0 to 360 degrees

Antenna Position:

Height.....1m to 4m
Polarity.....Horizontal and Vertical

5.4 Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All data was recorded in the peak detection mode. Quasi-peak readings performed only when an emission was found to be marginal (within -10 dB μ V of specification limits), and are distinguished with a "QP" in the data table.

5.5 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB μ V means the emission is 7dB μ V below the maximum limit for Subpart B. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corr. Ampl.}$$

5.6 Radiated Emissions Test Result

Temperature (°C) : 22~23	EUT: Android MID
Humidity (%RH) : 50~54	M/N: MD7081
Barometric Pressure (mbar) : 950~1000	Operation Condition: Connect to PC & SD /Charging & Camera/ SD Playing/HDMI Playing

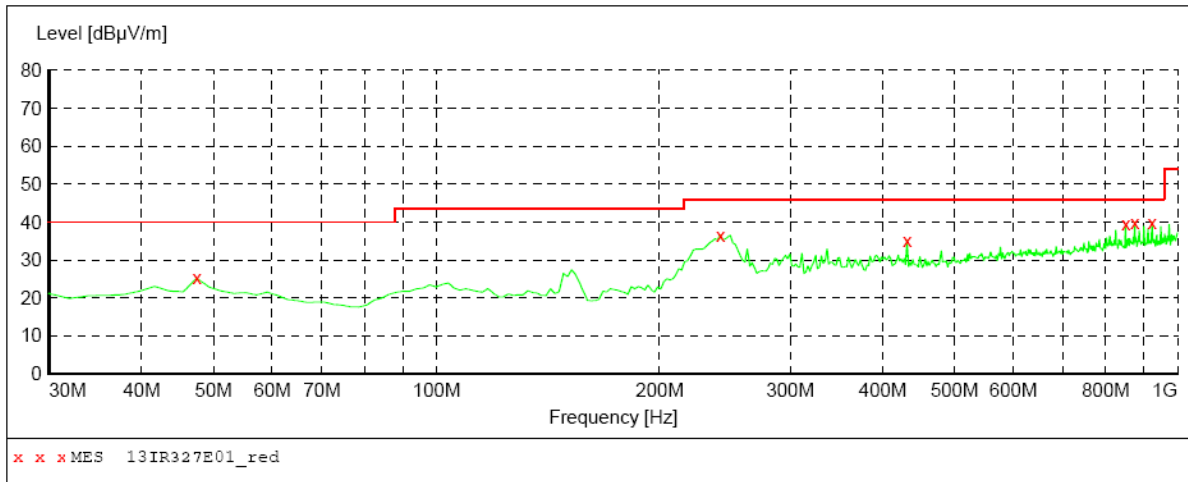
Note: In all test modes, Connect to PC & SD, HDMI Playing ,Charging & Camera is the worst-case.

Radiated Emission Test Data(30~1000M):

EUT: Android MID
M/N: MD7081
Operating Condition: Charging & Camera
Test Site: 3m CHAMBER
Operator: Chen
Test Specification: AC 120V/60Hz for adapter
Comment: Polarization: Horizontal

SWEEP TABLE: "test (30M-1G)"

Short Description:		Field Strength				Transducer
Start	Stop	Detector	Meas. Time	IF Bandw.		
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz		VULB9163 NEW



MEASUREMENT RESULT: "13IR327E01_red"

9/30/2013 19:39

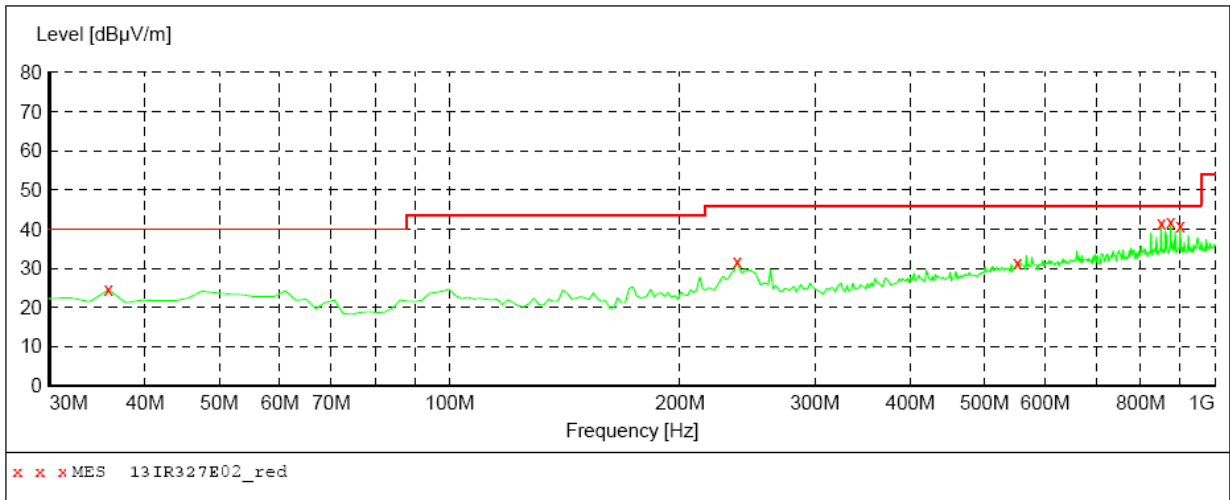
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
47.460000	25.20	15.8	40.0	14.8	QP	100.0	0.00	HORIZONTAL
241.460000	36.60	17.0	46.0	9.4	QP	100.0	0.00	HORIZONTAL
431.580000	35.30	22.0	46.0	10.7	QP	100.0	0.00	HORIZONTAL
850.620000	39.40	28.6	46.0	6.6	QP	100.0	0.00	HORIZONTAL
875.840000	40.00	28.9	46.0	6.0	QP	100.0	0.00	HORIZONTAL
924.340000	40.00	29.4	46.0	6.0	QP	100.0	0.00	HORIZONTAL

Radiated Emission Test Data(30~1000M):

EUT: Android MID
M/N: MD7081
Operating Condition: Charging & Camera
Test Site: 3m CHAMBER
Operator: Chen
Test Specification: AC 120V/60Hz for adapter
Comment: Polarization: Vertical

SWEEP TABLE: "test (30M-1G)"

Short Description:		Field Strength				
Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer	
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	VULB9163 NEW	



MEASUREMENT RESULT: "13IR327E02_red"

9/30/2013 19:40

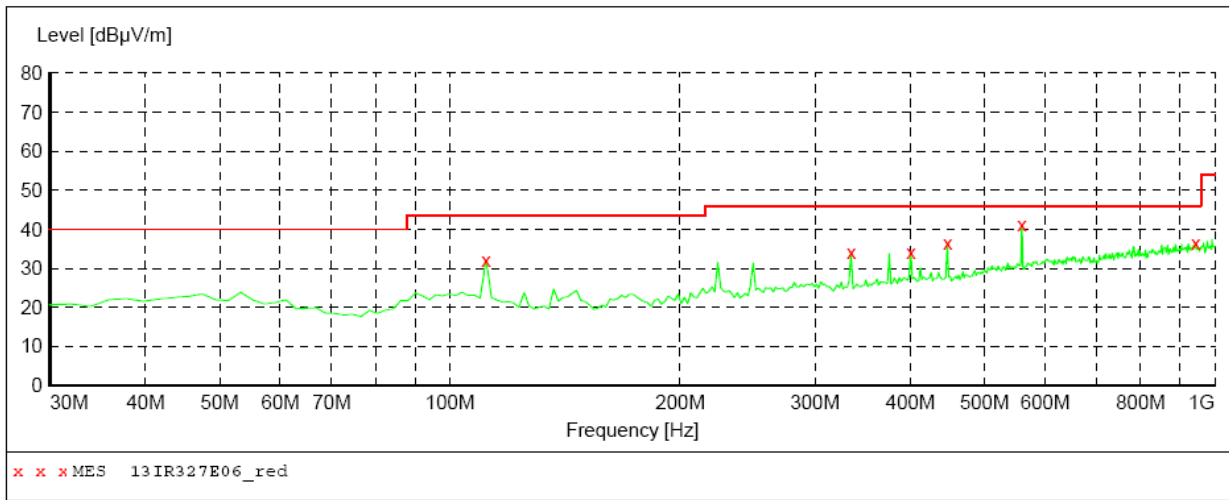
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
35.820000	24.60	14.7	40.0	15.4	QP	100.0	0.00	VERTICAL
237.580000	31.90	16.7	46.0	14.1	QP	100.0	0.00	VERTICAL
551.860000	31.60	25.0	46.0	14.4	QP	100.0	0.00	VERTICAL
850.620000	41.50	28.6	46.0	4.5	QP	100.0	0.00	VERTICAL
875.840000	42.00	28.9	46.0	4.0	QP	100.0	0.00	VERTICAL
901.060000	40.90	29.2	46.0	5.1	QP	100.0	0.00	VERTICAL

Radiated Emission Test Data(30~1000M):

EUT: Android MID
M/N: MD7081
Operating Condition: HDMI Playing
Test Site: 3m CHAMBER
Operator: Chen
Test Specification: AC 120V/60Hz for adapter
Comment: Polarization: Horizontal

SWEEP TABLE: "test (30M-1G)"

Short Description:		Field Strength			
Start	Stop	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency	MaxPeak	Coupled	100 kHz	VULB9163 NEW
30.0 MHz	1.0 GHz				



MEASUREMENT RESULT: "13IR327E06_red"

9/30/2013 12:45

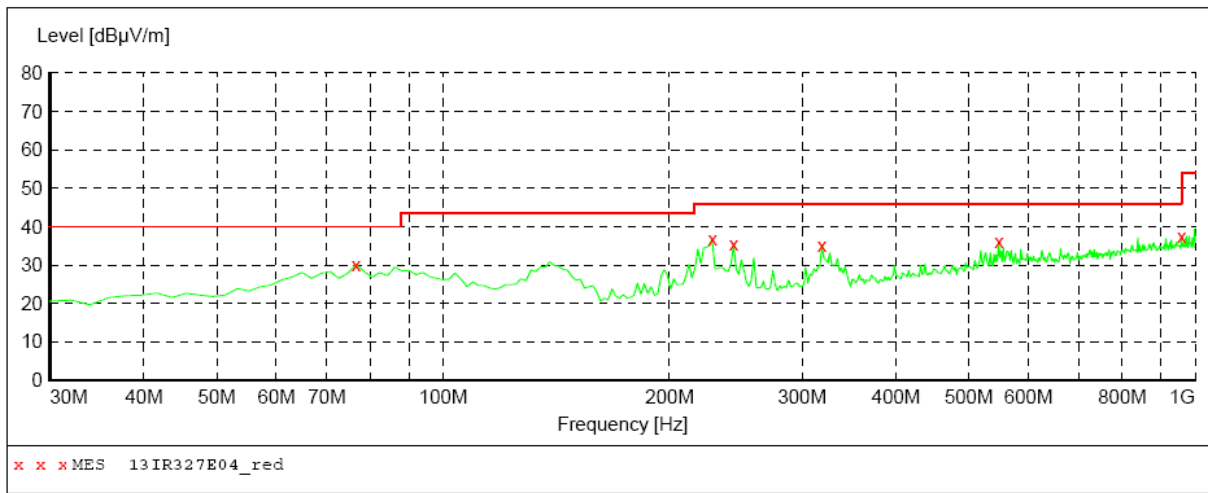
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
111.480000	32.20	16.2	43.5	11.3	QP	300.0	0.00	HORIZONTAL
334.580000	34.10	19.9	46.0	11.9	QP	100.0	0.00	HORIZONTAL
400.540000	34.30	21.5	46.0	11.7	QP	100.0	0.00	HORIZONTAL
447.100000	36.40	22.1	46.0	9.6	QP	100.0	0.00	HORIZONTAL
559.620000	41.10	25.2	46.0	4.9	QP	100.0	0.00	HORIZONTAL
943.740000	36.60	29.5	46.0	9.4	QP	300.0	0.00	HORIZONTAL

Radiated Emission Test Data(30~1000M):

EUT: Android MID
M/N: MD7081
Operating Condition: HDMI Playing
Test Site: 3m CHAMBER
Operator: Chen
Test Specification: AC 120V/60Hz for adapter
Comment: Polarization: Vertical

SWEEP TABLE: "test (30M-1G)"

Short Description:		Field Strength			
Start	Stop	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency				
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	VULB9163 NEW



MEASUREMENT RESULT: "13IR327E04_red"

9/30/2013 16:38

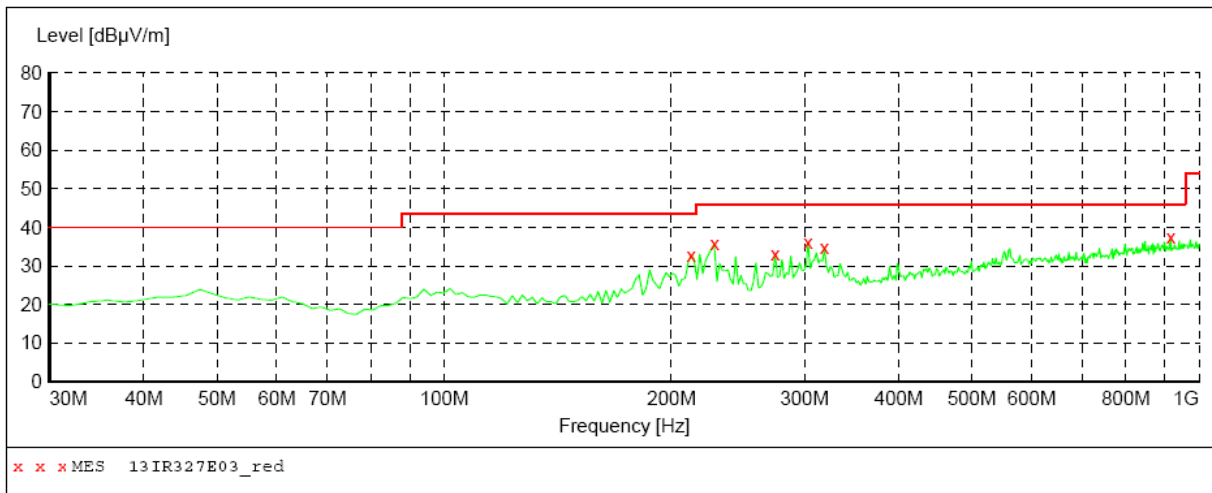
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
76.560000	30.10	12.0	40.0	9.9	QP	100.0	0.00	VERTICAL
227.880000	36.90	16.0	46.0	9.1	QP	100.0	0.00	VERTICAL
243.400000	35.60	17.0	46.0	10.4	QP	100.0	0.00	VERTICAL
319.060000	35.30	19.2	46.0	10.7	QP	100.0	0.00	VERTICAL
547.980000	36.10	24.9	46.0	9.9	QP	100.0	0.00	VERTICAL
959.260000	37.40	29.6	46.0	8.6	QP	100.0	0.00	VERTICAL

Radiated Emission Test Data(30~1000M):

EUT: Android MID
M/N: MD7081
Operating Condition: Connect to PC & SD
Test Site: 3m CHAMBER
Operator: Chen
Test Specification: AC 120V/60Hz for adapter
Comment: Polarization: Horizontal

SWEEP TABLE: "test (30M-1G)"

Short Description:		Field Strength			
Start	Stop	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency				
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	VULB9163 NEW



MEASUREMENT RESULT: "13IR327E03_red"

9/30/2013 16:36

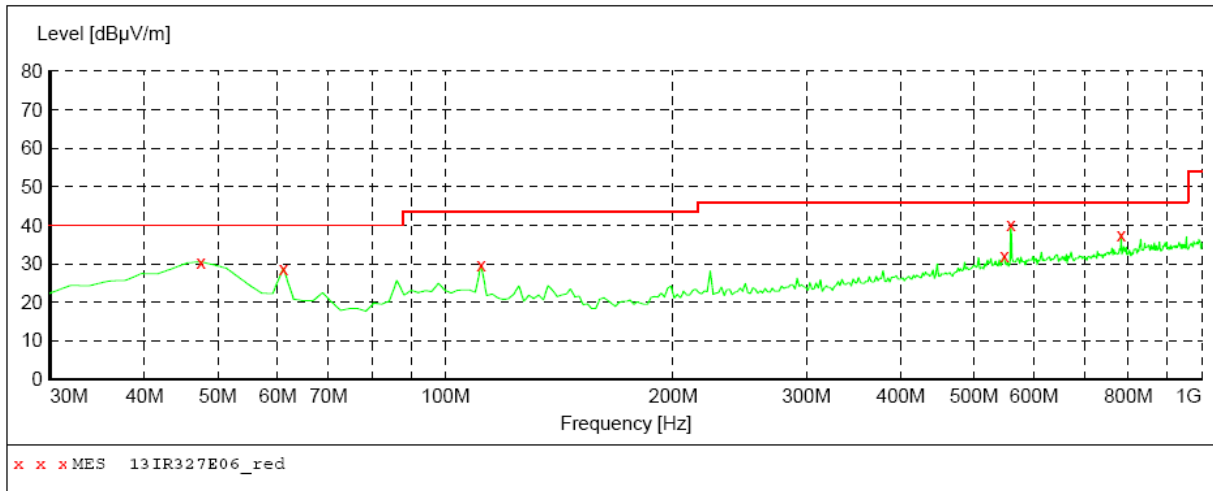
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
212.360000	32.90	15.1	43.5	10.6	QP	100.0	0.00	HORIZONTAL
227.880000	35.70	16.0	46.0	10.3	QP	100.0	0.00	HORIZONTAL
274.440000	33.00	17.9	46.0	13.0	QP	100.0	0.00	HORIZONTAL
303.540000	36.00	18.8	46.0	10.0	QP	100.0	0.00	HORIZONTAL
319.060000	34.80	19.2	46.0	11.2	QP	100.0	0.00	HORIZONTAL
916.580000	37.40	29.3	46.0	8.6	QP	100.0	0.00	HORIZONTAL

Radiated Emission Test Data(30~1000M):

EUT: Android MID
M/N: MD7081
Operating Condition: Connect to PC & SD
Test Site: 3m CHAMBER
Operator: Chen
Test Specification: AC 120V/60Hz for adapter
Comment: Polarization: Vertical

SWEEP TABLE: "test (30M-1G)"

Short Description:		Field Strength				Transducer
Start	Stop	Detector	Meas. Time	IF Bandw.		
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	VULB9163 NEW	



MEASUREMENT RESULT: "13IR327E05_red"

9/30/2013 12:42

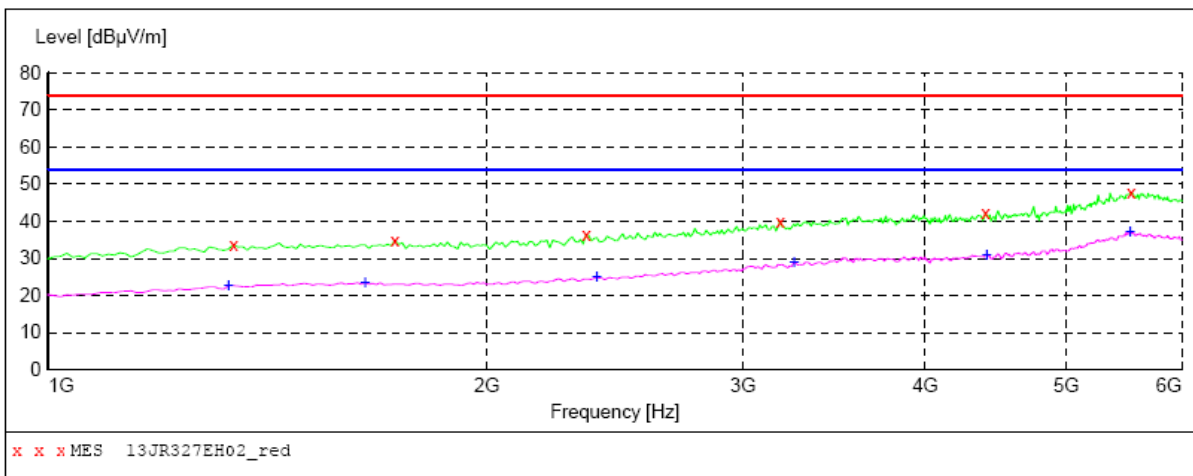
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
47.460000	30.50	15.8	40.0	9.5	QP	100.0	0.00	VERTICAL
61.040000	28.90	14.2	40.0	11.1	QP	100.0	0.00	VERTICAL
111.480000	29.80	16.2	43.5	13.7	QP	100.0	0.00	VERTICAL
547.980000	32.00	24.9	46.0	14.0	QP	100.0	0.00	VERTICAL
559.620000	40.10	25.2	46.0	5.9	QP	100.0	0.00	VERTICAL
782.720000	37.70	27.7	46.0	8.3	QP	100.0	0.00	VERTICAL

Radiated Emission Test Data above 1G (worst case)

EUT: Android MID
M/N: MD7081
Operating Condition: Charging & Camera
Test Site: 3m CHAMBER
Operator: Chen
Test Specification: AC 120V/60Hz for adapter
Comment: Polarization: Horizontal

SWEEP TABLE: "test (1G-7G)"

Short Description:		Field Strength			Transducer
Start	Stop	Detector	Meas. Time	IF Bandw.	
1.0 GHz	7.0 GHz	MaxPeak Average	Coupled	1 MHz	BBHA 9120 A-0315



MEASUREMENT RESULT: "13JR327EH02_red"

10/12/2013 10:35

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1340.000000	33.60	-12.5	74.0	40.4	QP	100.0	0.00	HORIZONTAL
1730.000000	34.80	-11.6	74.0	39.2	QP	100.0	0.00	HORIZONTAL
2340.000000	36.30	-10.0	74.0	37.7	QP	100.0	0.00	HORIZONTAL
3180.000000	40.00	-6.5	74.0	34.0	QP	100.0	0.00	HORIZONTAL
4400.000000	42.20	-3.0	74.0	31.8	QP	100.0	0.00	HORIZONTAL
5540.000000	47.90	3.8	74.0	26.1	QP	100.0	0.00	HORIZONTAL

MEASUREMENT RESULT: "13JR327EH02_red2"

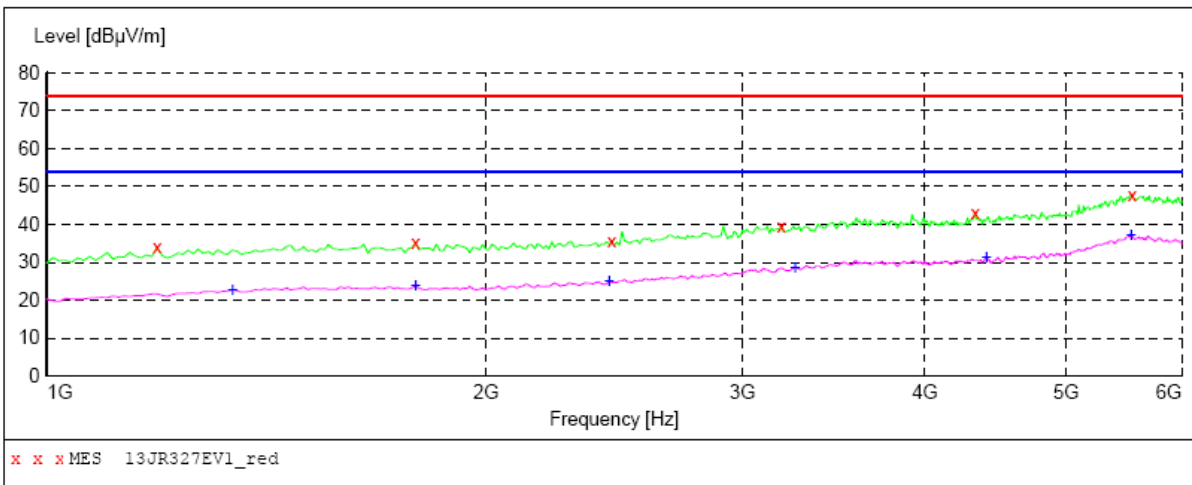
10/12/2013 10:35

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1330.000000	22.60	-12.6	54.0	31.4	-QP	100.0	0.00	HORIZONTAL
1650.000000	23.40	-11.6	54.0	30.6	-QP	100.0	0.00	HORIZONTAL
2380.000000	24.90	-9.9	54.0	29.1	-QP	100.0	0.00	HORIZONTAL
3250.000000	28.90	-6.2	54.0	25.1	-QP	100.0	0.00	HORIZONTAL
4410.000000	31.00	-3.0	54.0	23.0	-QP	100.0	0.00	HORIZONTAL
5530.000000	37.10	3.9	54.0	16.9	-QP	100.0	0.00	HORIZONTAL

EUT: Android MID
M/N: MD7081
Operating Condition: Charging & Camera
Test Site: 3m CHAMBER
Operator: Chen
Test Specification: AC 120V/60Hz for adapter
Comment: Polarization: Vertical

SWEEP TABLE: "test (1G-7G)"

Short Description:		Field Strength			
Start	Stop	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency				
1.0 GHz	7.0 GHz	MaxPeak	Coupled	1 MHz	BBHA 9120 A-0315
		Average			



MEASUREMENT RESULT: "13JR327EV01_red"

10/12/2013 10:32

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1190.000000	34.00	-13.4	74.0	40.0	QP	100.0	0.00	VERTICAL
1790.000000	35.30	-11.5	74.0	38.7	QP	100.0	0.00	VERTICAL
2440.000000	35.60	-9.7	74.0	38.4	QP	100.0	0.00	VERTICAL
3190.000000	39.60	-6.4	74.0	34.4	QP	100.0	0.00	VERTICAL
4330.000000	42.90	-3.2	74.0	31.1	QP	100.0	0.00	VERTICAL
5550.000000	47.90	3.8	74.0	26.1	QP	100.0	0.00	VERTICAL

MEASUREMENT RESULT: "13JR327EV01_red2"

10/12/2013 10:32

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1340.000000	22.70	-12.5	54.0	31.3	QP	100.0	0.00	VERTICAL
1790.000000	23.70	-11.5	54.0	30.3	QP	100.0	0.00	VERTICAL
2430.000000	24.90	-9.7	54.0	29.1	QP	100.0	0.00	VERTICAL
3260.000000	28.80	-6.1	54.0	25.2	QP	100.0	0.00	VERTICAL
4410.000000	31.40	-3.0	54.0	22.6	QP	100.0	0.00	VERTICAL
5540.000000	37.20	3.8	54.0	16.8	QP	100.0	0.00	VERTICAL