

FCC Part 15B Measurement and Test Report

For

Sky Phone LLC

1348 Washington Av. Suite 350, Miami Beach, Florida, United States

FCC ID: 2ABOSSKYPLATA55

FCC Rule(s):	<u>FCC Part 15 Subpart B</u>
Product Description:	<u>3G Smart Phone</u>
Tested Model:	<u>Platinum A55</u>
Report No.:	<u>STR17128126E-3</u>
Sample Receipt Date:	<u>2017-12-13</u>
Tested Date:	<u>2017-12-14 to 2017-12-27</u>
Issued Date:	<u>2017-12-28</u>
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Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen SEM Test Technology Co., Ltd.

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1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: Sky Phone LLC
Address of applicant: 1348 Washington Av. Suite 350, Miami Beach, Florida,
United States

Manufacturer: Sky Phone LLC
Address of manufacturer: 1348 Washington Av. Suite 350, Miami Beach, Florida,
United States

General Description of EUT	
Product Name:	3G Smart Phone
Trade Name:	/
Model No.:	Platinum A55
Adding Model(s):	/
<i>Note: The test data is gathered from a production sample, provided by the manufacturer.</i>	

Technical Characteristics of EUT	
Rated Voltage:	DC 3.7V by battery
Rated Current:	/
Rated Power:	/
Adapter Model:	Model: ES007-U050100XOF Input: AC100-240V~50/60Hz, 0.3A; Output: DC5V,1000mA
Lowest Internal Frequency:	26MHz
Highest Internal Frequency:	1.3GHz
Classification of ITE:	Class B

1.2 Test Standards

The following report is prepared on behalf of the Sky Phone LLC in accordance with Part 2, Subpart J, and Part 15, Subparts A and B of the Federal Communication Commissions rules.

The objective is to determine compliance with FCC Part 15, Subpart B, and section 15.205, 15.107, and 15.109 rules.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

1.4 Test Facility

FCC – Registration No.: 125990

Shenzhen SEM Test Technology Co., Ltd. Laboratory has been recognized to perform compliance testing on equipment subject to the Commissions Declaration Of Conformity (DOC). The Designation Number is CN5010, and Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Shenzhen SEM.Test Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

1.5 EUT Setup and Operation Mode

The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted according to the operation manual for use, more detailed description as follows:

Test Mode List:

Test Mode	Description	Remark
TM1	Charging & Playing	Connected to Adapter
TM2	Downloading	Connected to PC
TM3	Front Camera On	Front Camera
TM4	Back Camera On	Back Camera
TM5	FM	Receive 98MHz

EUT Cable List and Details

Cable Description	Length (M)	Shielded/Unshielded	With Core/Without Core
USB Cable	1.2	Shielded	Without Core
Earphone Cable	1..0	Unshielded	Without Core

Auxiliary Equipment List and Details

Description	Manufacturer	Model	Serial Number
Computer	Lenovo	ThinkPad Edge E445	/
Computer	Lenovo	ThinkPad Edge E10	/

Special Cable List and Details

Cable Description	Length (M)	Shielded/Unshielded	With Core/Without Core
/	/	/	/

1.6 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
Conducted Emissions	Conducted	9-150kHz ± 3.74 dB
		0.15-30MHz ± 3.34 dB
Radiated Emissions	Radiated	30-200MHz ± 4.52 dB
		0.2-1GHz ± 5.56 dB
		1-6GHz ± 3.84 dB
		6-18GHz ± 3.92 dB

1.7 Test Equipment List and Details

No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due Date
SEMT-1072	Spectrum Analyzer	Agilent	E4407B	MY41440400	2017-06-12	2018-06-11
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2017-06-12	2018-06-11
SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2017-06-12	2018-06-11
SEMT-1008	Amplifier	Agilent	8447F	3113A06717	2017-06-12	2018-06-11
SEMT-1043	Amplifier	C&D	PAP-1G18	2002	2017-06-12	2018-06-11
SEMT-1011	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2017-06-08	2018-06-07
SEMT-1042	Horn Antenna	ETS	3117	00086197	2017-06-08	2018-06-07
SEMT-1069	Loop Antenna	Schwarz beck	FMZB 1516	9773	2017-06-08	2018-06-07
SEMT-1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2017-06-12	2018-06-11
SEMT-1003	L.I.S.N	Schwarz beck	NSLK8126	8126-224	2017-06-12	2018-06-11
SEMT-1002	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2017-06-12	2018-06-11

2. SUMMARY OF TEST RESULTS

Description of Test	Result
§15.107 (a) Conducted Emission	Compliant
§15.109(a) Radiated Emission	Compliant

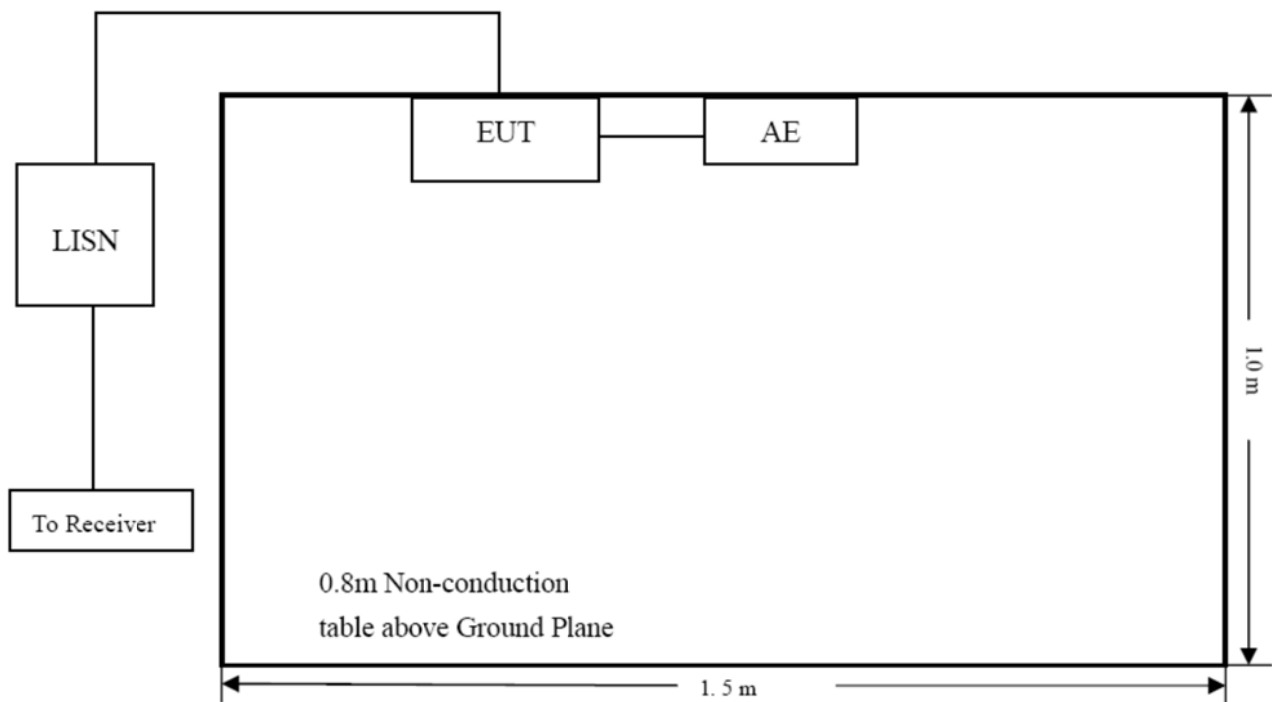
N/A: not applicable

3. Conducted Emissions

3.1 Test Procedure

Test is conducting under the description of ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

3.2 Basic Test Setup Block Diagram



3.3 Environmental Conditions

Temperature:	23 °C
Relative Humidity:	52%
ATM Pressure:	1011 mbar

3.4 Summary of Test Results/Plots

According to the data in section 3.5, the EUT complied with the FCC Part 15.107(a) Conducted margin for a Class B device, with the *worst* margin reading of:

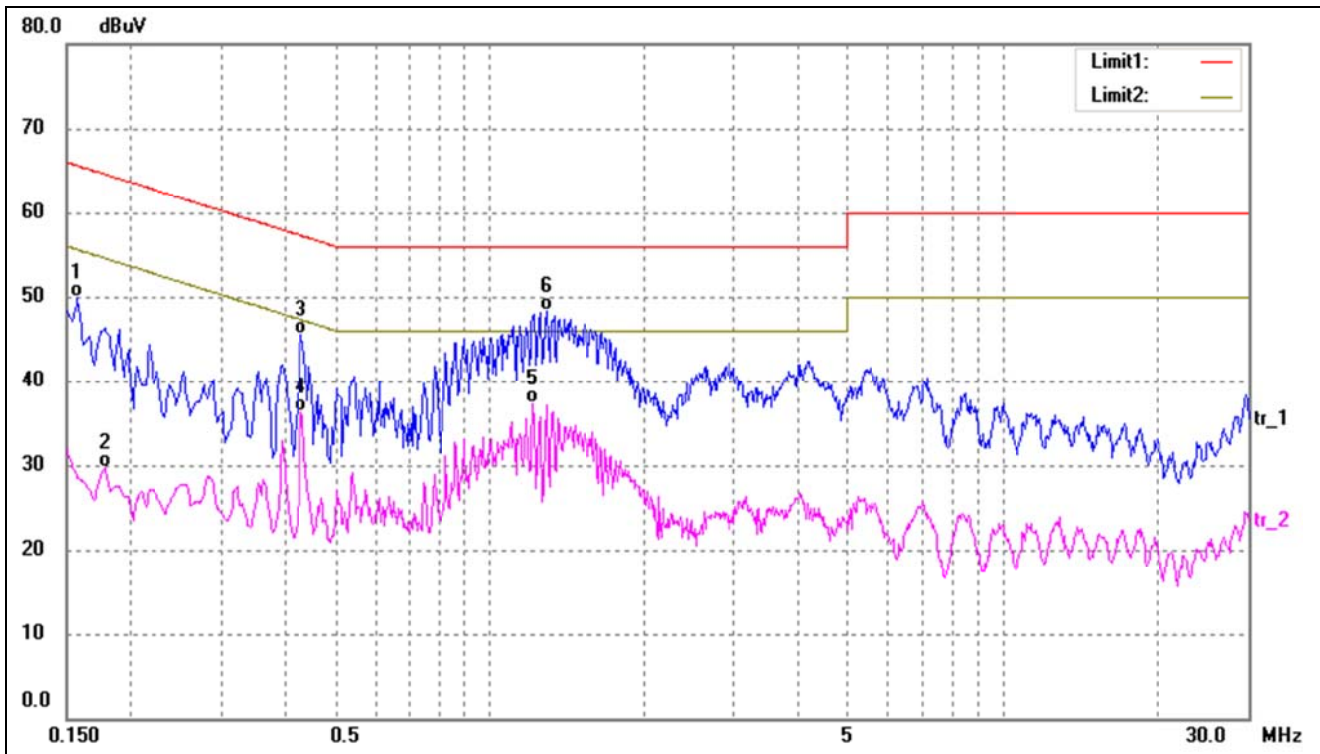
-7.79 dB at 1.2900 MHz in the **Neutral, QP** detector, **TM1** mode, 0.15-30MHz

3.5 Conducted Emissions Test Data

Plot of Conducted Emissions Test Data

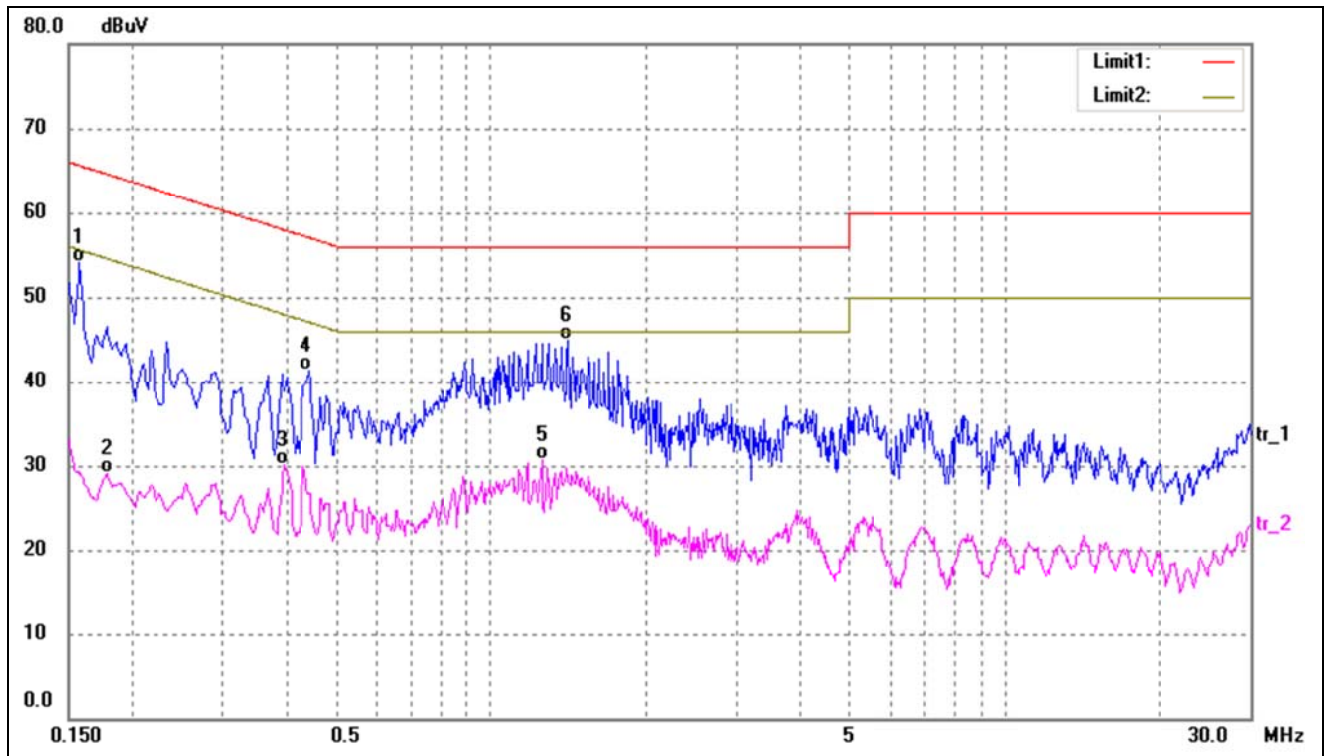
EUT: 3G Smart Phone
 Tested Model: Platinum A55
 Operating Condition: TM1
 Comment: AC 120V/60Hz

Test Specification: Neutral



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1580	40.03	9.84	49.87	65.57	-15.70	QP
2	0.1780	19.92	9.82	29.74	54.58	-24.84	AVG
3	0.4300	35.72	9.80	45.52	57.25	-11.73	QP
4	0.4300	26.45	9.80	36.25	47.25	-11.00	AVG
5	1.2140	27.59	9.75	37.34	46.00	-8.66	AVG
6*	1.2900	38.46	9.75	48.21	56.00	-7.79	QP

Test Specification: Line

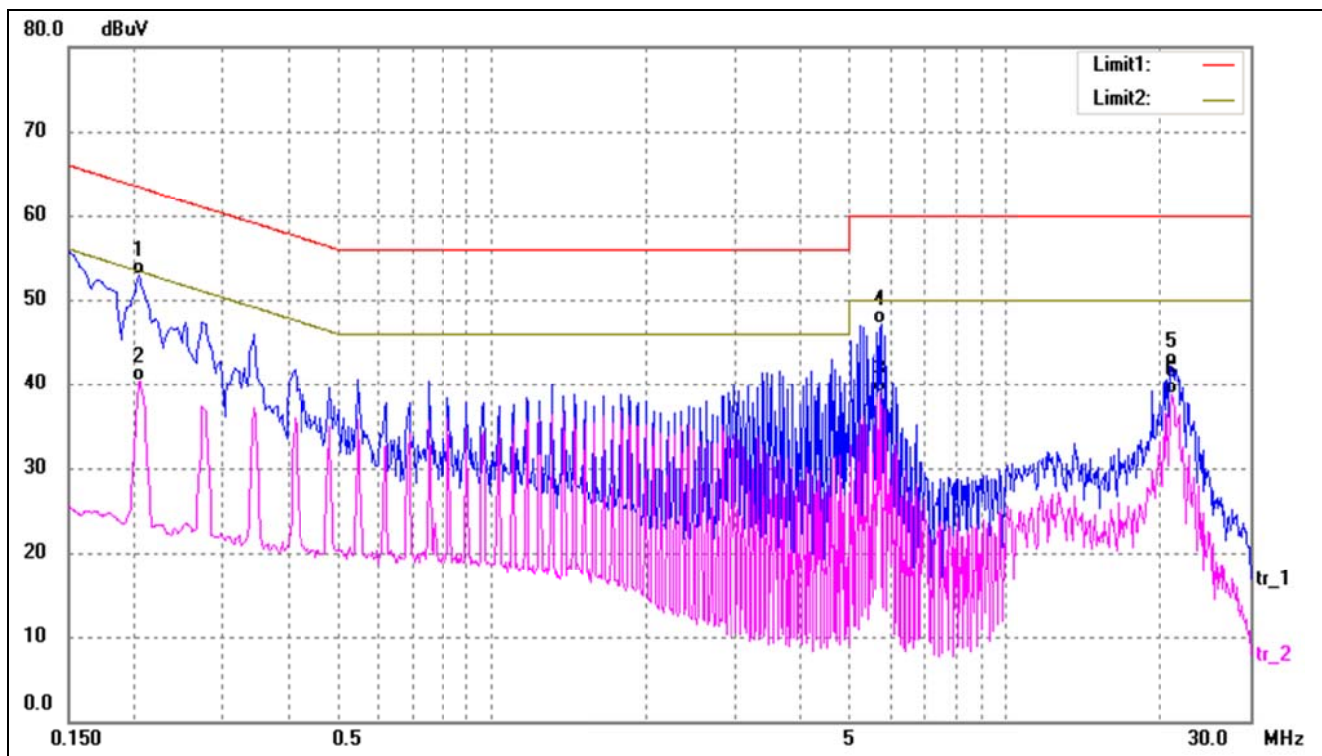


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1580	44.28	9.84	54.12	65.57	-11.45	QP
2	0.1780	19.32	9.82	29.14	54.58	-25.44	AVG
3	0.3940	20.25	9.80	30.05	47.98	-17.93	AVG
4	0.4420	31.43	9.80	41.23	57.02	-15.79	QP
5	1.2500	20.93	9.75	30.68	46.00	-15.32	AVG
6*	1.4060	35.17	9.75	44.92	56.00	-11.08	QP

Plot of Conducted Emissions Test Data

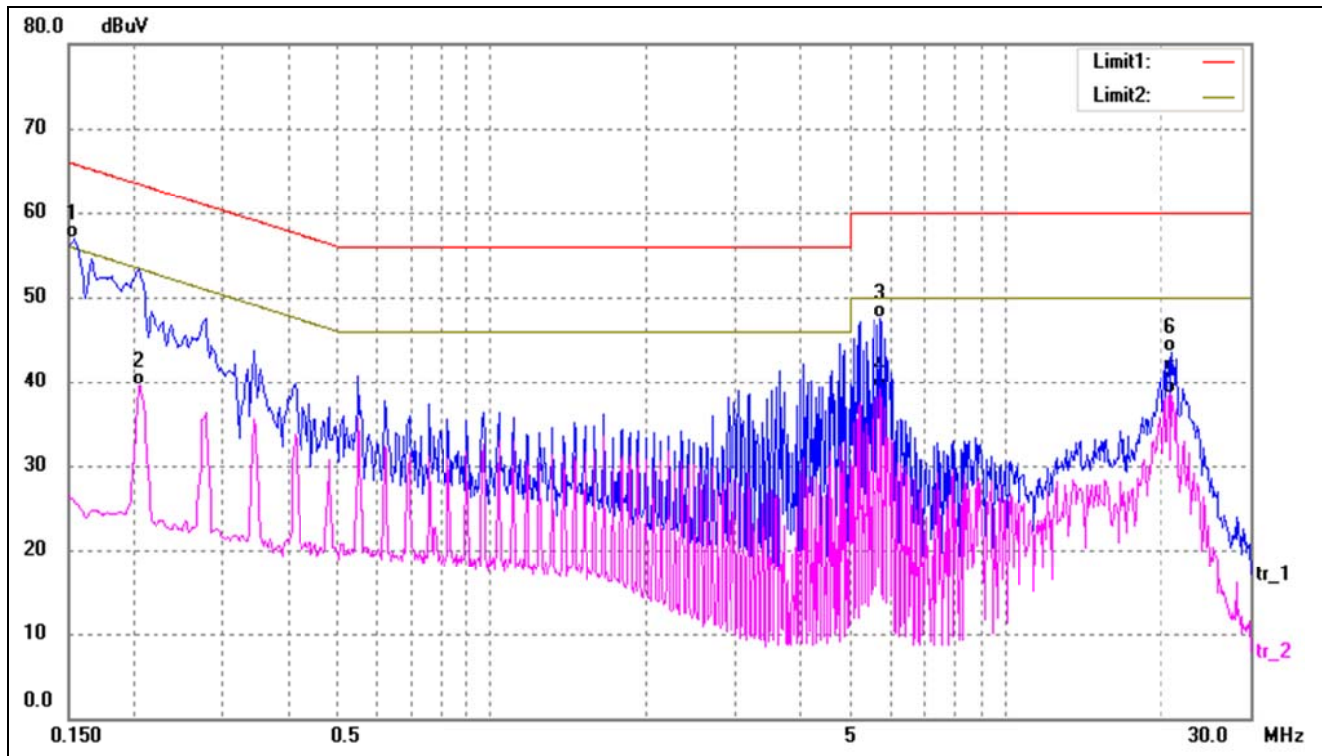
EUT: 3G Smart Phone
 Tested Model: Platinum A55
 Operating Condition: TM2
 Comment: AC 120V/60Hz

Test Specification: Neutral



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1*	0.2060	43.03	9.80	52.83	63.37	-10.54	QP
2	0.2060	30.60	9.80	40.40	53.37	-12.97	AVG
3	5.7140	29.21	9.64	38.85	50.00	-11.15	AVG
4	5.7860	37.38	9.64	47.02	60.00	-12.98	QP
5	21.2140	32.49	9.68	42.17	60.00	-17.83	QP
6	21.2140	28.98	9.68	38.66	50.00	-11.34	AVG

Test Specification: Line



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1*	0.1540	46.98	9.85	56.83	65.78	-8.95	QP
2	0.2060	29.73	9.80	39.53	53.37	-13.84	AVG
3	5.7220	37.91	9.64	47.55	60.00	-12.45	QP
4	5.7220	29.47	9.64	39.11	50.00	-10.89	AVG
5	20.9540	28.83	9.68	38.51	50.00	-11.49	AVG
6	21.1620	33.87	9.68	43.55	60.00	-16.45	QP

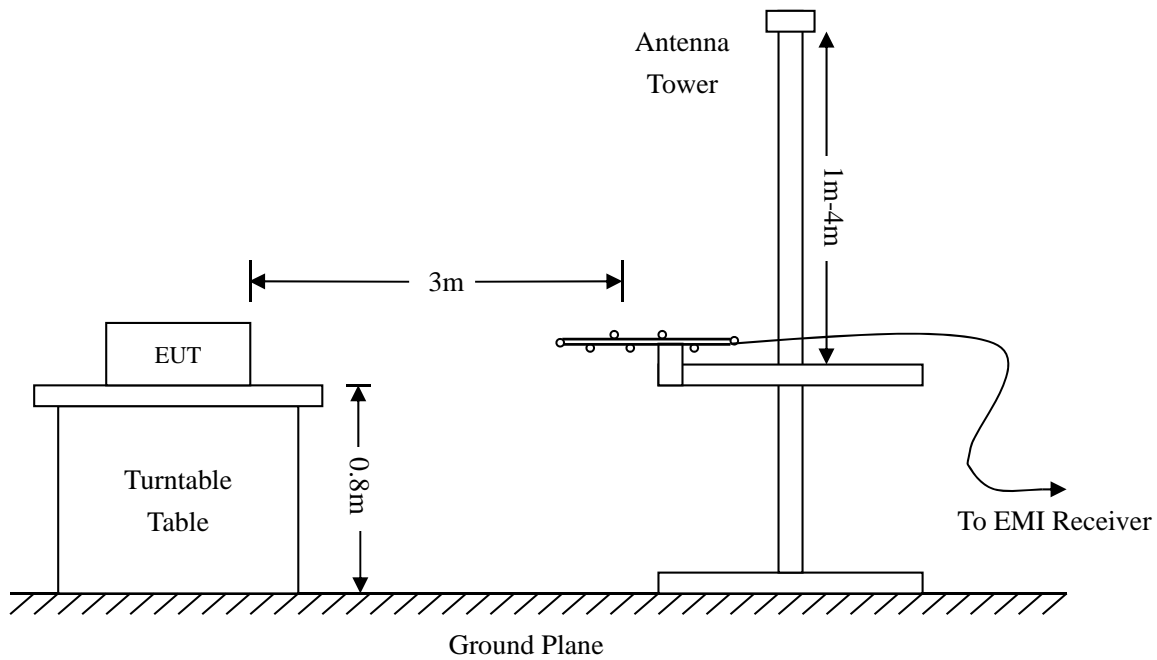
4. RADIATED EMISSION

4.1 Test Procedure

The setup of EUT is according with per ANSI C63.4-2014 measurement procedure. The specification used was with the FCC Part 15.109 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.



4.2 Test Receiver Setup

Frequency :9kHz-30MHz

RBW=10KHz,

VBW =30KHz

Sweep time= Auto

Trace = max hold

Detector function = peak

Frequency :30MHz-1GHz

RBW=120KHz,

VBW=300KHz

Sweep time= Auto

Trace = max hold

Detector function = peak, QP

Frequency :Above 1GHz

RBW=1MHz,

VBW=3MHz(Peak), 10Hz(AV)

Sweep time= Auto

Trace = max hold

Detector function = peak, AV

4.3 Corrected Amplitude & Margin Calculation

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

$$\text{Corr. Ampl.} = \text{Indicated Reading} - \text{Corr. Factor}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of $-6\text{dB}\mu\text{V}$ means the emission is $6\text{dB}\mu\text{V}$ below the maximum limit for a Class B device. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15.109(a) Limit}$$

4.4 Environmental Conditions

Temperature:	23 °C
Relative Humidity:	55 %
ATM Pressure:	1011 mbar

4.5 Summary of Test Results/Plots

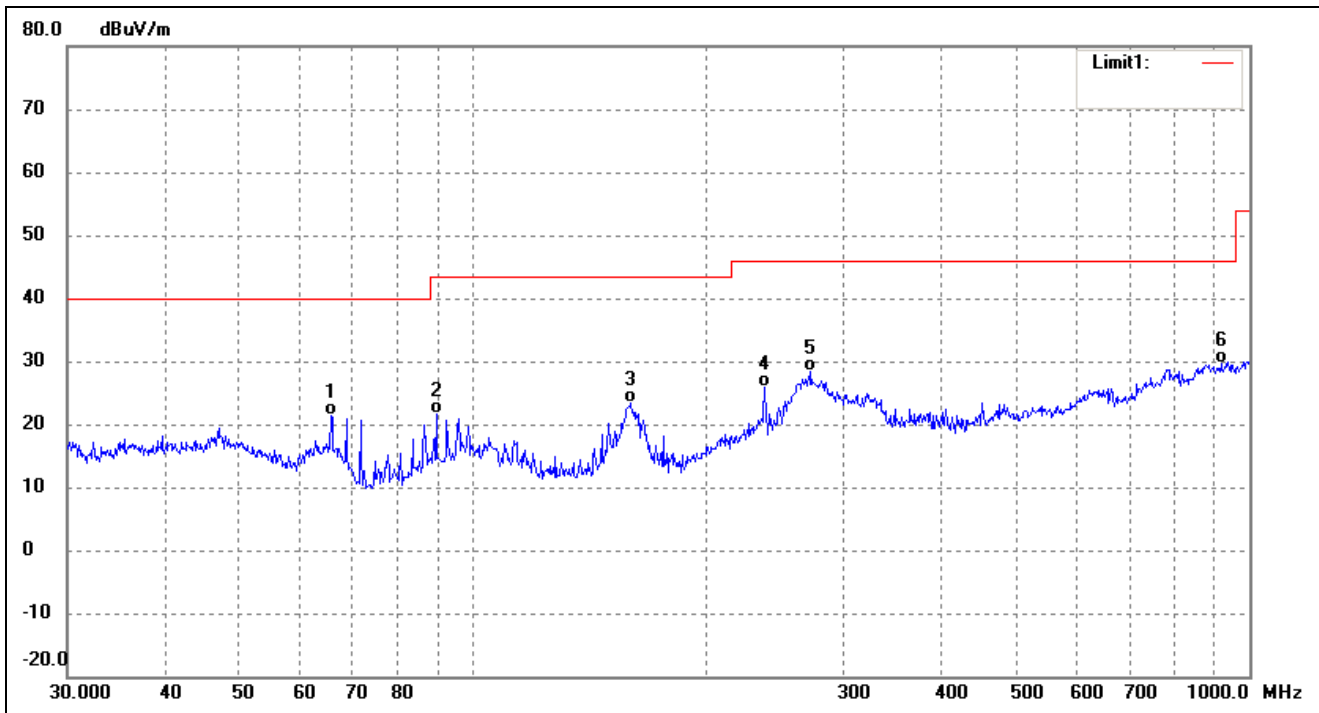
According to the data, the EUT complied with the FCC Part 15.109(a) rule, and had the worst margin of:

-3.81 dB at 860.0352 MHz in the Horizontal polarization, TM4 mode, 9 kHz to 7 GHz, 3Meters

Plot of Radiated Emissions Test Data (Below 1GHz)

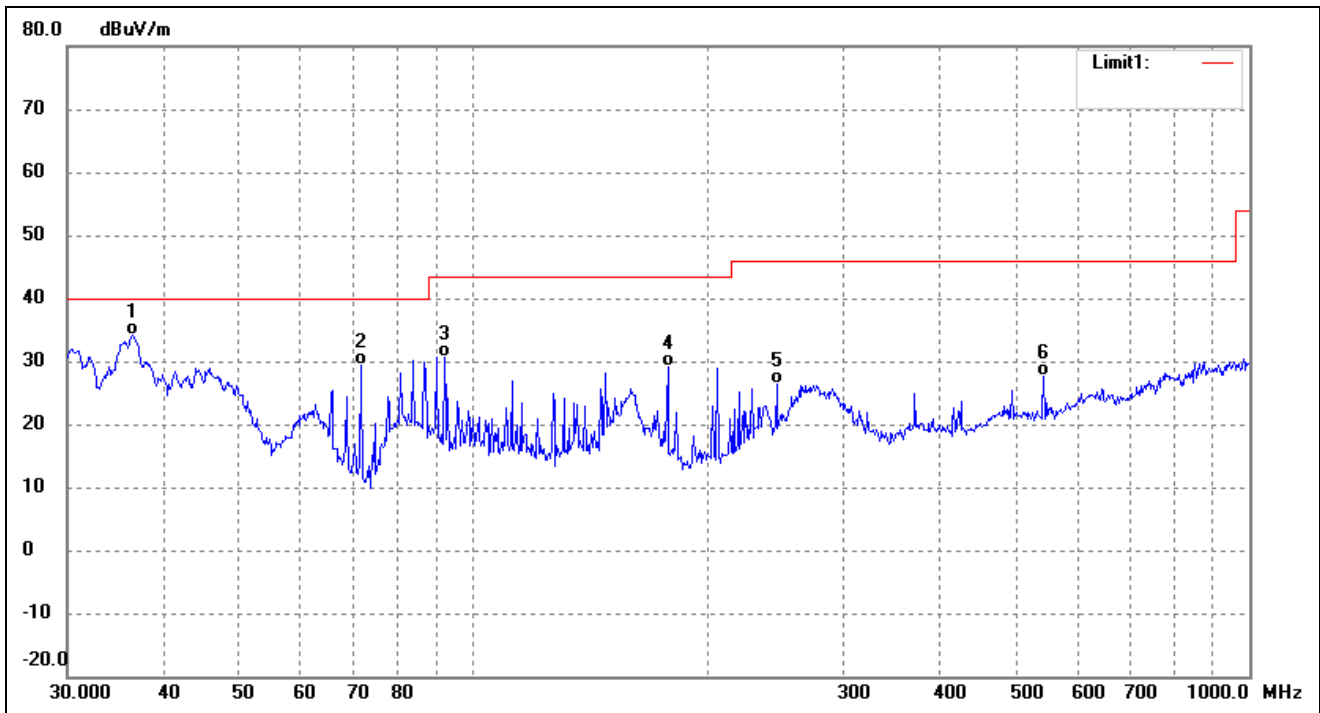
EUT: 3G Smart Phone
 Tested Model: Platinum A55
 Operating Condition: TM1
 Comment: AC 120V/60Hz

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	65.5727	34.94	-13.44	21.50	40.00	-18.50	103	100	QP
2	89.5900	35.33	-13.74	21.59	43.50	-21.91	126	100	QP
3	159.7844	38.44	-15.03	23.41	43.50	-20.09	75	100	QP
4	237.4760	36.93	-11.16	25.77	46.00	-20.23	131	100	QP
5	272.2776	38.17	-9.73	28.44	46.00	-17.56	237	100	QP
6	919.2866	27.84	1.74	29.58	46.00	-16.42	327	100	QP

Test Specification: Vertical

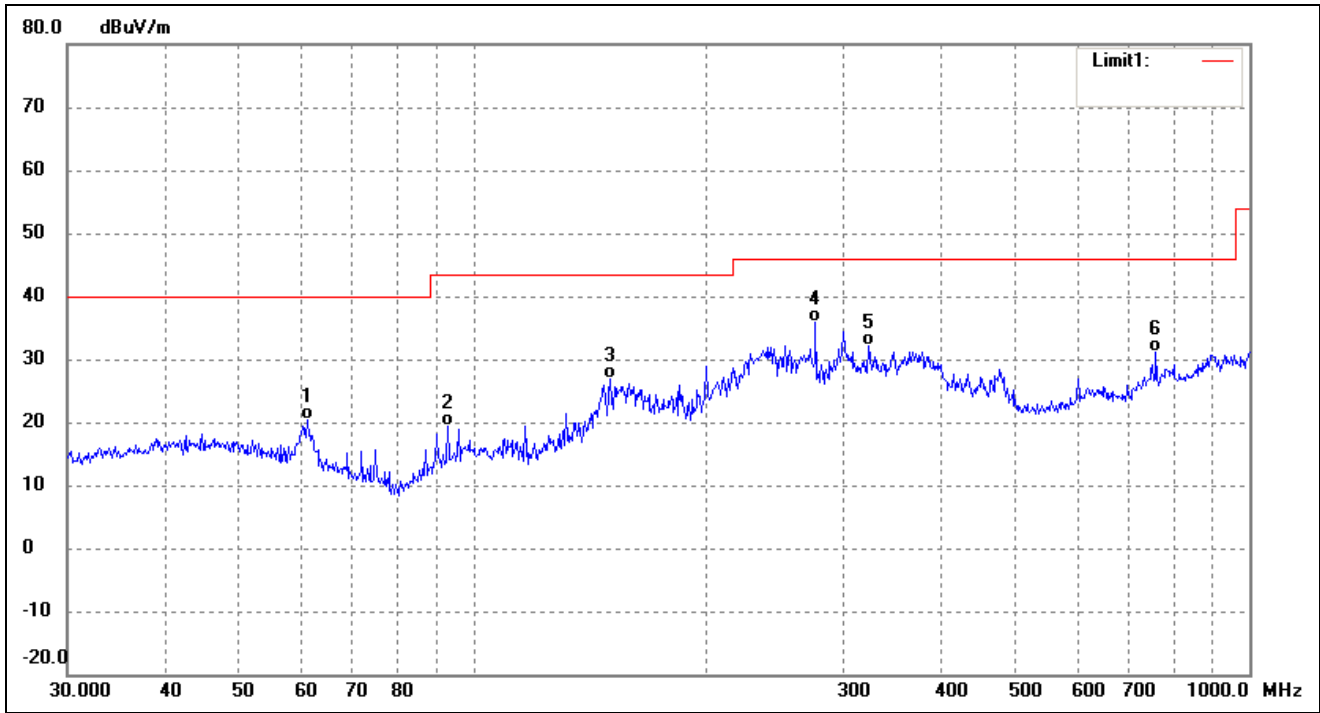


No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	36.3814	45.45	-11.23	34.22	40.00	-5.78	69	100	QP
2	71.5806	45.88	-16.56	29.32	40.00	-10.68	114	100	QP
3	91.8163	43.90	-13.22	30.68	43.50	-12.82	91	100	QP
4	178.1327	43.43	-14.30	29.13	43.50	-14.37	99	100	QP
5	245.9509	37.07	-10.69	26.38	46.00	-19.62	218	100	QP
6	543.2742	33.48	-5.74	27.74	46.00	-18.26	339	100	QP

Plot of Radiated Emissions Test Data (Below 1GHz)

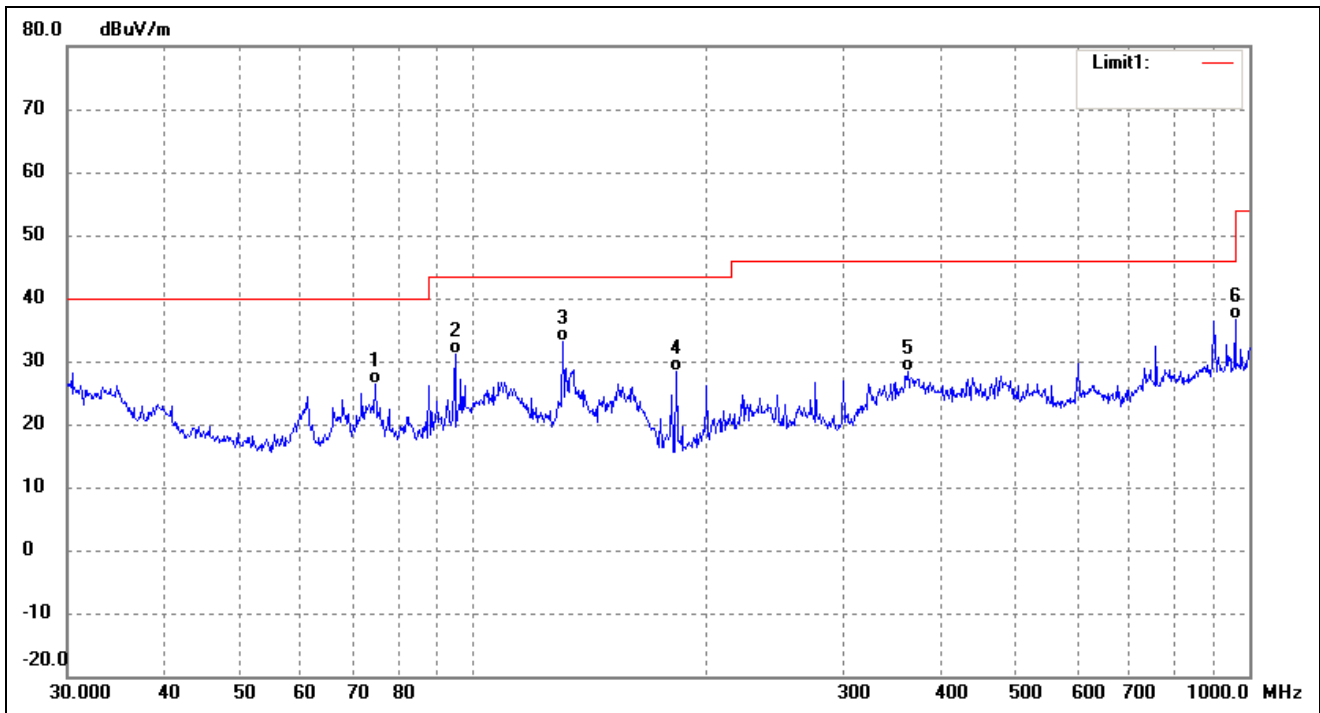
EUT: 3G Smart Phone
 Tested Model: Platinum A55
 Operating Condition: TM2
 Comment: AC 120V/60Hz

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	61.1316	32.46	-12.12	20.34	40.00	-19.66	144	100	QP
2	92.7872	32.46	-13.00	19.46	43.50	-24.04	321	100	QP
3	150.0108	41.82	-14.95	26.87	43.50	-16.63	70	100	QP
4	276.1236	45.42	-9.62	35.80	46.00	-10.20	90	100	QP
5	323.3204	41.83	-9.67	32.16	46.00	-13.84	137	100	QP
6	758.0408	32.30	-1.23	31.07	46.00	-14.93	107	100	QP

Test Specification: Vertical

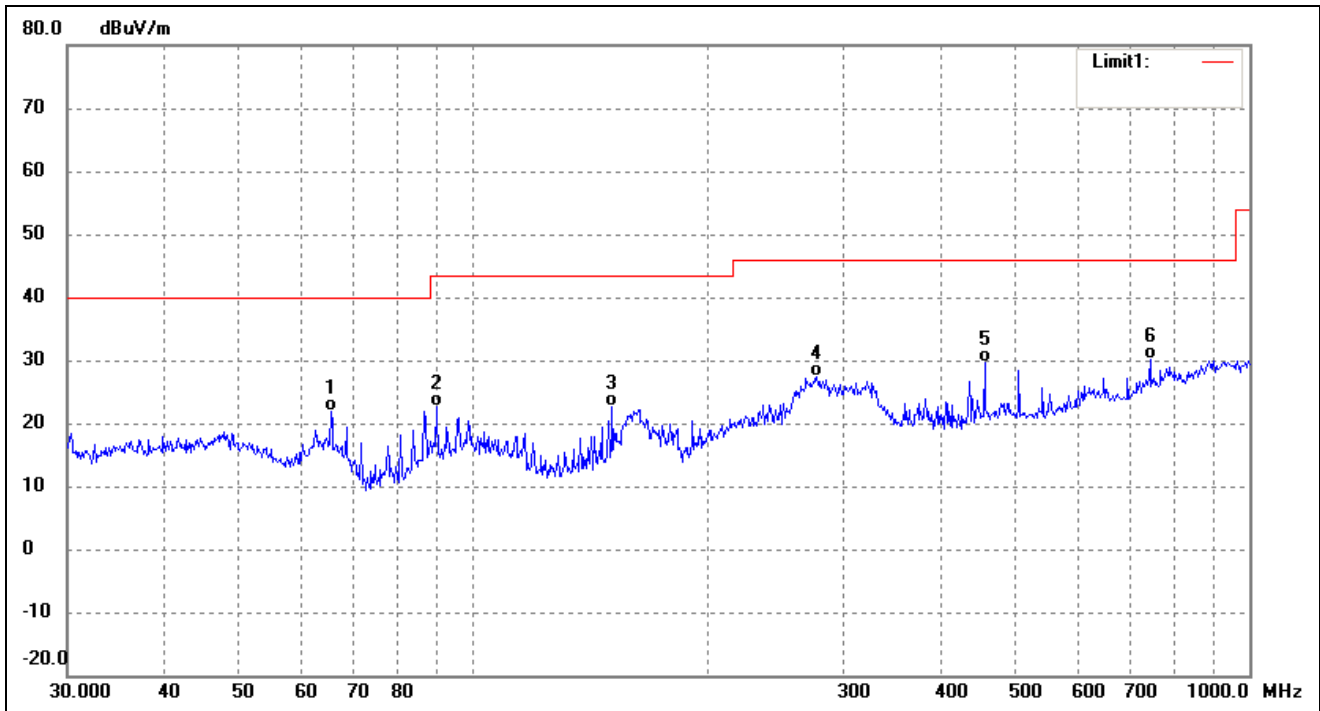


No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	74.9191	43.44	-17.18	26.26	40.00	-13.74	109	100	QP
2	94.7601	43.76	-12.56	31.20	43.50	-12.30	252	100	QP
3	130.3789	47.48	-14.27	33.21	43.50	-10.29	83	100	QP
4	182.5592	42.27	-13.88	28.39	43.50	-15.11	293	100	QP
5	362.9845	36.24	-7.76	28.48	46.00	-17.52	185	100	QP
6	958.7943	34.96	1.60	36.56	46.00	-9.44	110	100	QP

Plot of Radiated Emissions Test Data (Below 1GHz)

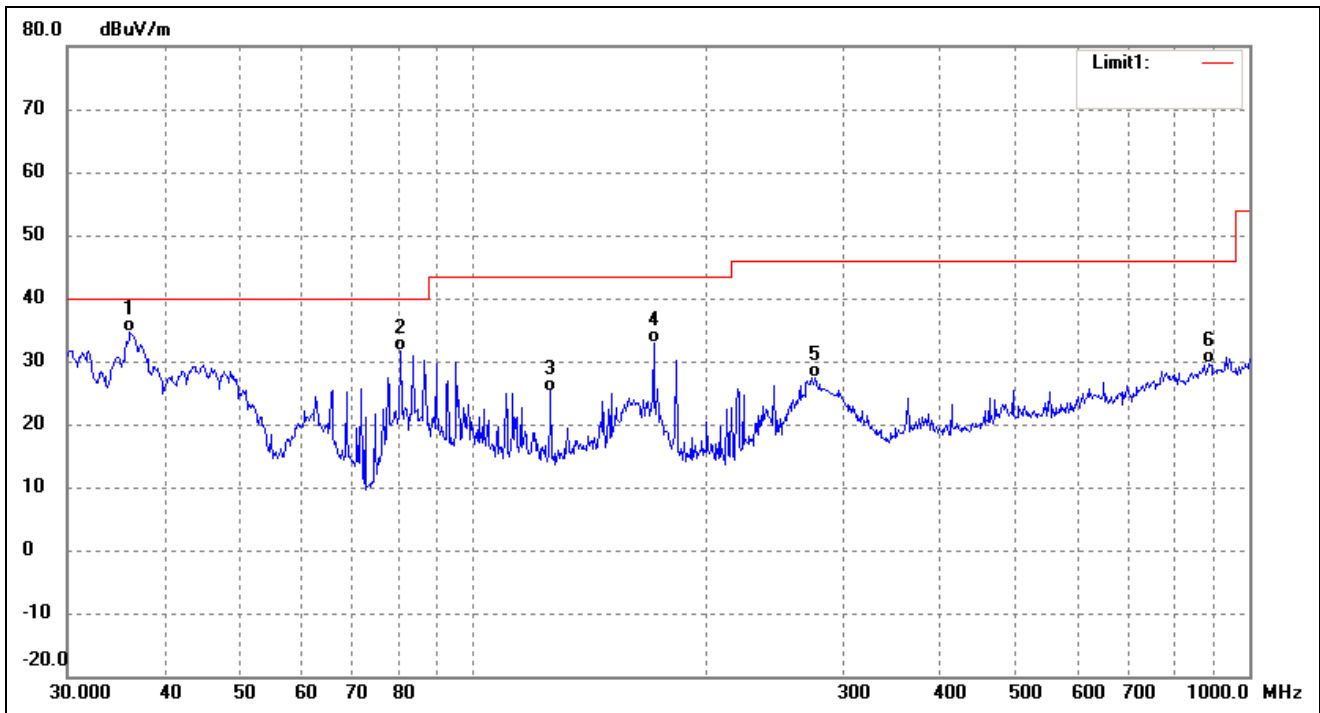
EUT: 3G Smart Phone
 Tested Model: Platinum A55
 Operating Condition: TM3
 Comment: AC 120V/60Hz

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	65.5727	35.37	-13.44	21.93	40.00	-18.07	216	100	QP
2	89.5900	36.35	-13.74	22.61	43.50	-20.89	99	100	QP
3	151.0666	37.58	-14.96	22.62	43.50	-20.88	99	100	QP
4	277.0935	36.88	-9.59	27.29	46.00	-18.71	94	100	QP
5	455.9058	36.50	-6.91	29.59	46.00	-16.41	276	100	QP
6	744.8661	31.12	-1.09	30.03	46.00	-15.97	188	100	QP

Test Specification: Vertical

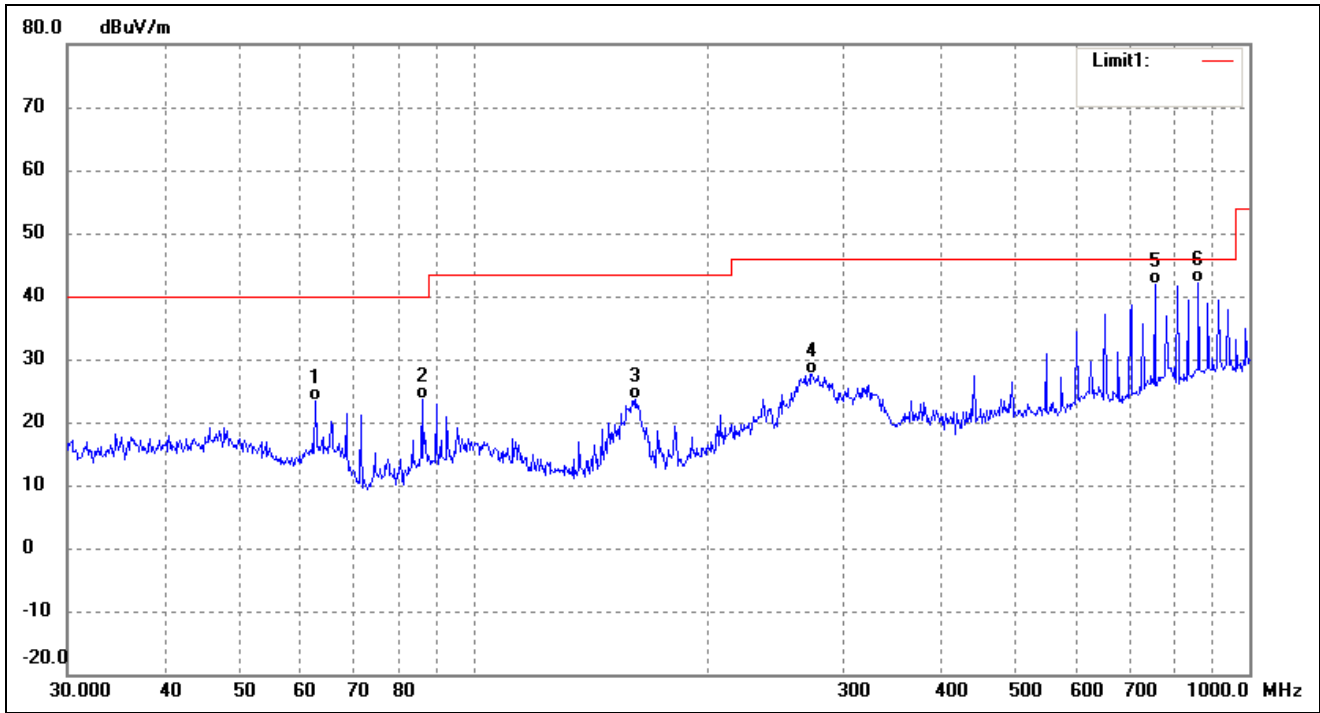


No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	36.1272	45.99	-11.29	34.70	40.00	-5.30	227	100	QP
2	80.6442	49.59	-17.85	31.74	40.00	-8.26	98	100	QP
3	125.8864	39.27	-14.02	25.25	43.50	-18.25	51	100	QP
4	170.7926	47.37	-14.60	32.77	43.50	-10.73	101	100	QP
5	276.1236	36.99	-9.62	27.37	46.00	-18.63	86	100	QP
6	887.6099	28.23	1.45	29.68	46.00	-16.32	331	100	QP

Plot of Radiated Emissions Test Data (Below 1GHz)

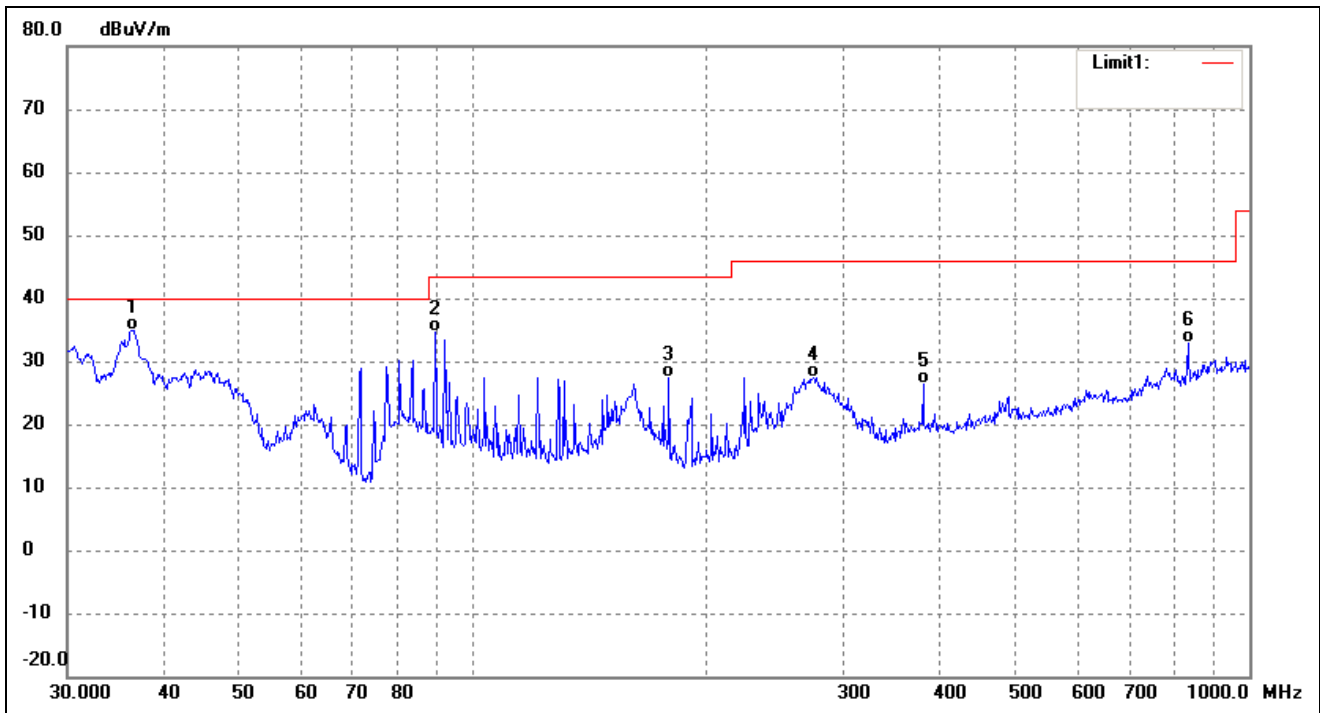
EUT: 3G Smart Phone
 Tested Model: Platinum A55
 Operating Condition: TM4
 Comment: AC 120V/60Hz

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	62.6507	35.93	-12.57	23.36	40.00	-16.64	182	100	QP
2	85.8984	38.38	-14.82	23.56	40.00	-16.44	125	100	QP
3	162.0414	38.63	-14.96	23.67	43.50	-19.83	104	100	QP
4	273.2341	37.34	-9.70	27.64	46.00	-18.36	139	100	QP
5	755.3873	43.16	-1.22	41.94	46.00	-4.06	236	100	QP
6	860.0352	41.13	1.06	42.19	46.00	-3.81	344	100	QP

Test Specification: Vertical

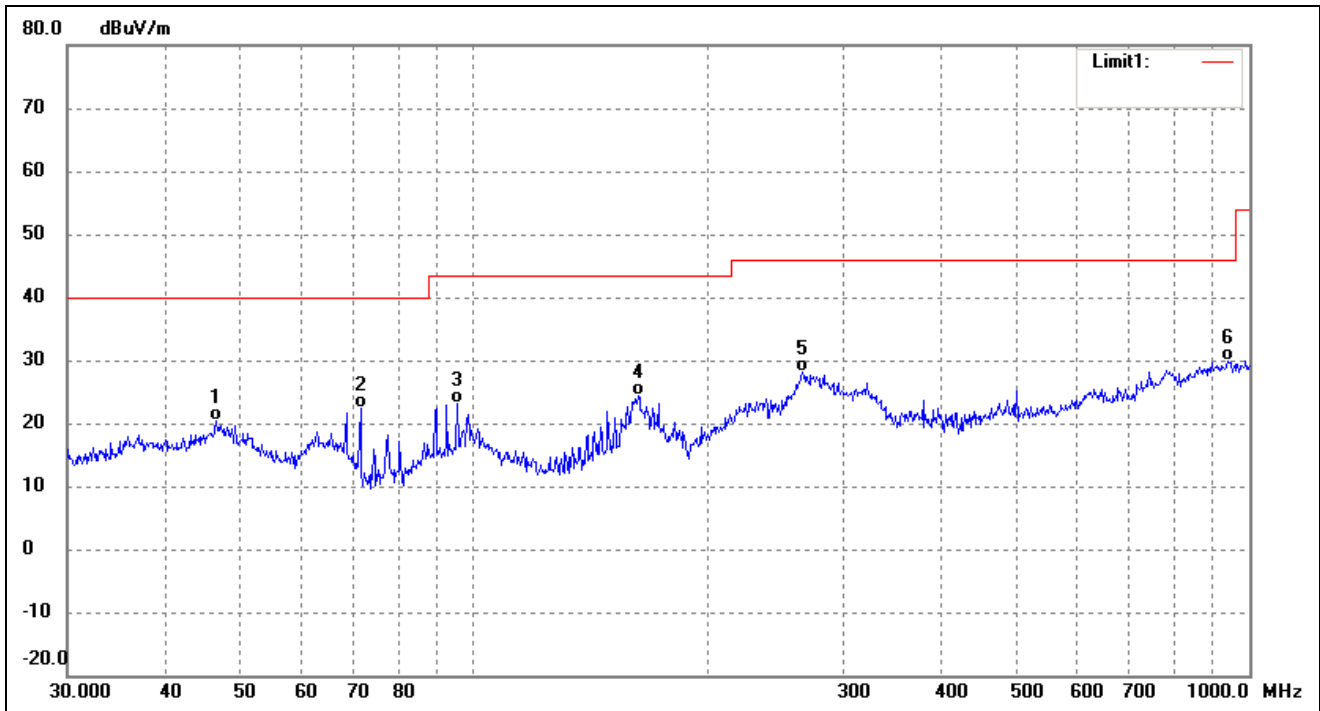


No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	36.3814	46.18	-11.23	34.95	40.00	-5.05	67	100	QP
2	89.2764	48.47	-13.95	34.52	43.50	-8.98	154	100	QP
3	178.7584	41.62	-14.27	27.35	43.50	-16.15	58	100	QP
4	274.1939	36.99	-9.68	27.31	46.00	-18.69	98	100	QP
5	379.9141	33.34	-7.00	26.34	46.00	-19.66	335	100	QP
6	833.3171	32.98	-0.13	32.85	46.00	-13.15	257	100	QP

Plot of Radiated Emissions Test Data (Below 1GHz)

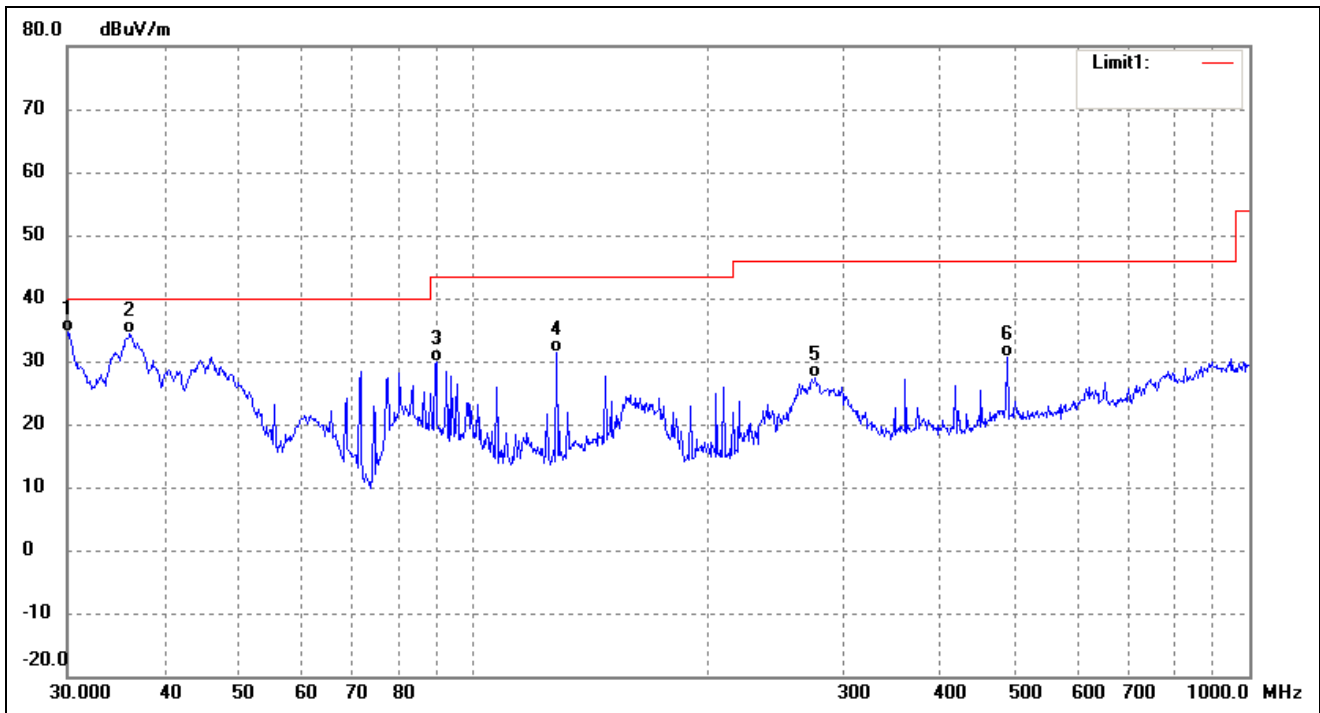
EUT: 3G Smart Phone
 Tested Model: Platinum A55
 Operating Condition: TM5
 Comment: AC 120V/60Hz

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	46.6664	31.08	-10.64	20.44	40.00	-19.56	101	100	QP
2	71.5806	37.31	-15.04	22.27	40.00	-17.73	233	100	QP
3	95.4270	35.46	-12.42	23.04	43.50	-20.46	51	100	QP
4	163.1818	39.32	-14.91	24.41	43.50	-19.09	227	100	QP
5	265.6757	38.03	-9.91	28.12	46.00	-17.88	62	100	QP
6	938.8326	27.53	2.27	29.80	46.00	-16.20	247	100	QP

Test Specification: Vertical

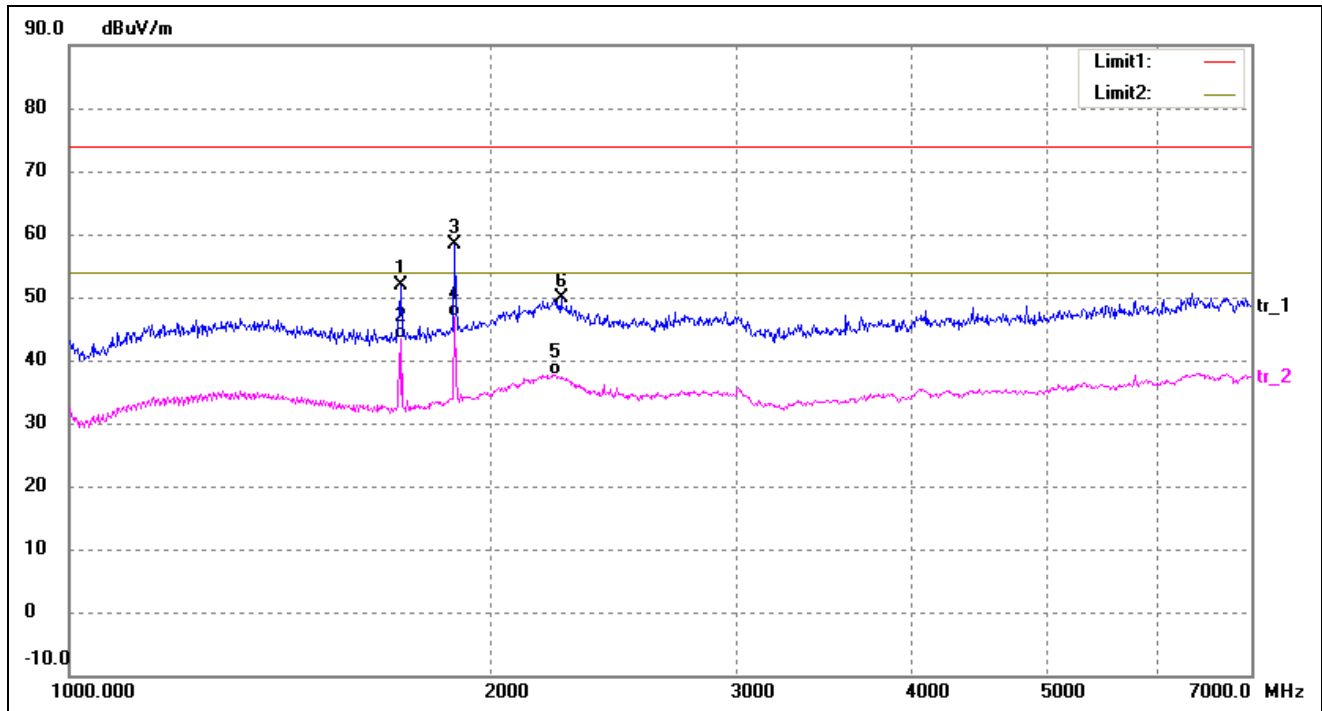


No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	30.1054	47.29	-12.67	34.62	40.00	-5.38	107	100	QP
2	36.1272	45.74	-11.29	34.45	40.00	-5.55	221	100	QP
3	89.5900	43.57	-13.80	29.77	43.50	-13.73	84	100	QP
4	128.1130	45.51	-14.15	31.36	43.50	-12.14	344	100	QP
5	276.1236	36.96	-9.62	27.34	46.00	-18.66	71	100	QP
6	487.3151	36.34	-5.66	30.68	46.00	-15.32	322	100	QP

Plot of Radiated Emissions Test Data (Above 1GHz)

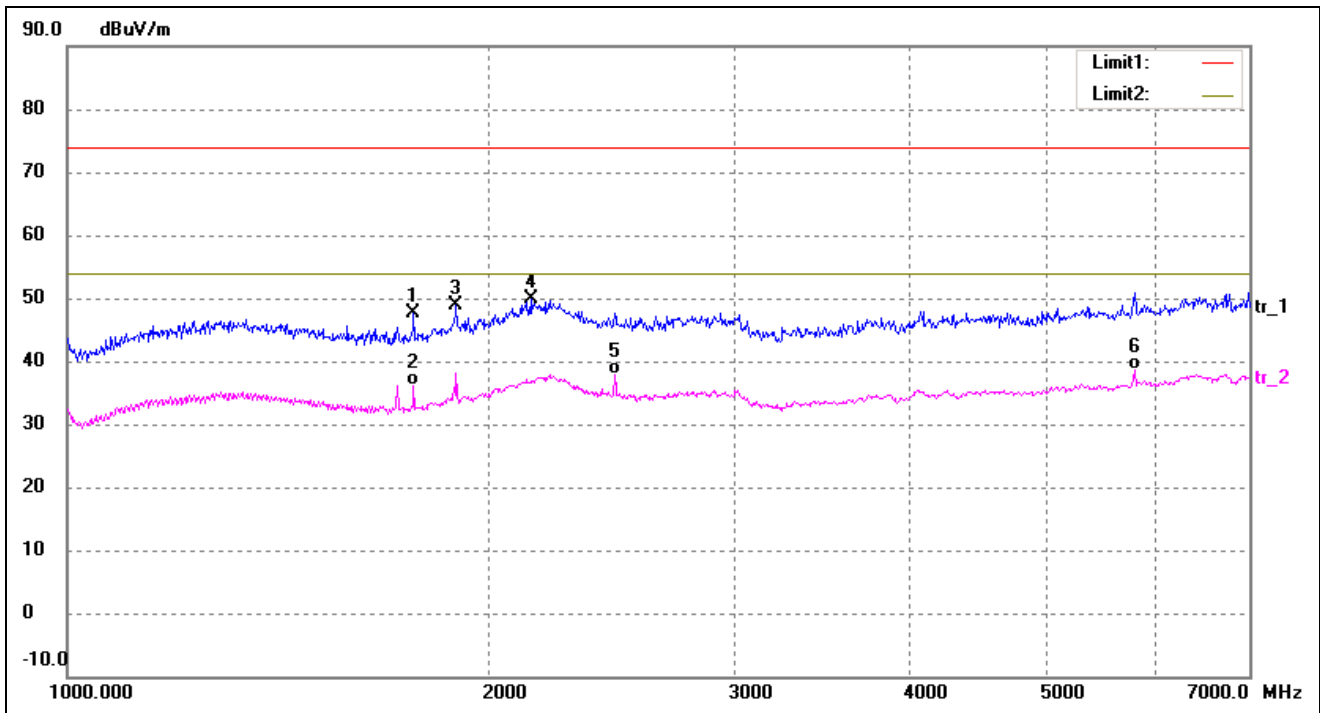
EUT: 3G Smart Phone
 Tested Model: Platinum A55
 Operating Condition: TM1 (Worst case)
 Comment: AC 120V/60Hz

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	1727.717	61.84	-9.94	51.90	74.00	-22.10	317	100	peak
2	1727.717	53.36	-9.94	43.42	54.00	-10.58	100	100	AVG
3	1885.828	67.27	-8.85	58.42	74.00	-15.58	166	100	peak
4	1885.828	55.64	-8.85	46.79	54.00	-7.21	109	100	AVG
5	2225.027	43.08	-5.45	37.63	54.00	-16.37	268	100	AVG
6	2246.781	55.50	-5.69	49.81	74.00	-24.19	92	100	peak

Test Specification: Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	1768.535	57.58	-9.86	47.72	74.00	-26.28	297	100	peak
2	1768.535	46.07	-9.86	36.21	54.00	-17.79	94	100	AVG
3	1896.869	57.55	-8.73	48.82	74.00	-25.18	229	100	peak
4	2144.265	55.51	-5.59	49.92	74.00	-24.08	91	100	peak
5	2461.957	45.20	-7.32	37.88	54.00	-16.12	332	100	AVG
6	5795.935	43.07	-4.56	38.51	54.00	-15.49	168	100	AVG

Note: Testing is carried out with frequency rang 9kHz to 7GHz, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

***** END OF REPORT *****