

FCC Part 15B

Measurement and Test Report

For

WGI TELECOM INC

1786 NORTH COMMERCE PARKWAY, WESTON, FL, U.S.A.

FCC ID: 2A0II-JS551

| | |
|--------------------------------------|---------------------------------|
| FCC Rule(s): | <u>FCC Part 15 Subpart B</u> |
| Product Description: | <u>4G Smart Phone</u> |
| Tested Model: | <u>JS551</u> |
| Report No.: | <u>STR17128059E-3</u> |
| Sample Receipt Date: | <u>2017-12-05</u> |
| Tested Date: | <u>2017-12-06 to 2017-12-26</u> |
| Issued Date: | <u>2017-12-26</u> |
| Tested By: | <u>Jason Su / Engineer</u> |
| Reviewed By: | <u>Silin Chen / EMC Manager</u> |
| Approved & Authorized By: | <u>Jandy So / PSQ Manager</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: WGI TELECOM INC
Address of applicant: 1786 NORTH COMMERCE PARKWAY, WESTON, FL, U.S.A.

Manufacturer: WGI TELECOM INC
Address of manufacturer: 1786 NORTH COMMERCE PARKWAY, WESTON, FL, U.S.A.

| General Description of EUT | |
|--|----------------|
| Product Name: | 4G Smart Phone |
| Trade Name: | / |
| Model No.: | JS551 |
| 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: | / |
| Power Adapter: | Model: JS551 Input: AC100-240V, 50/60Hz, 0.2A; Output: DC5V, 1.0A |
| Lowest Internal Frequency: | 32.768kHz |
| Highest Internal Frequency: | 1.1GHz |
| Classification of ITE: | Class B |

1.2 Test Standards

The following report is prepared on behalf of the WGI TELECOM INC 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 | Connect to adapter |
| TM2 | Downloading | connect to PC |
| TM3 | Camera | / |
| TM4 | FM | / |

EUT Cable List and Details

| Cable Description | Length (M) | Shielded/Unshielded | With Core/Without Core |
|-------------------|------------|---------------------|------------------------|
| USB Cable | 1.0 | Shielded | Without Core |
| Earphone | 1.25 | Unshielded | Without Core |

Auxiliary Equipment List and Details

| Description | Manufacturer | Model | Serial Number |
|-------------|--------------|-------|---------------|
| Notebook | Lenovo | E445 | / |

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 Emission | 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 |

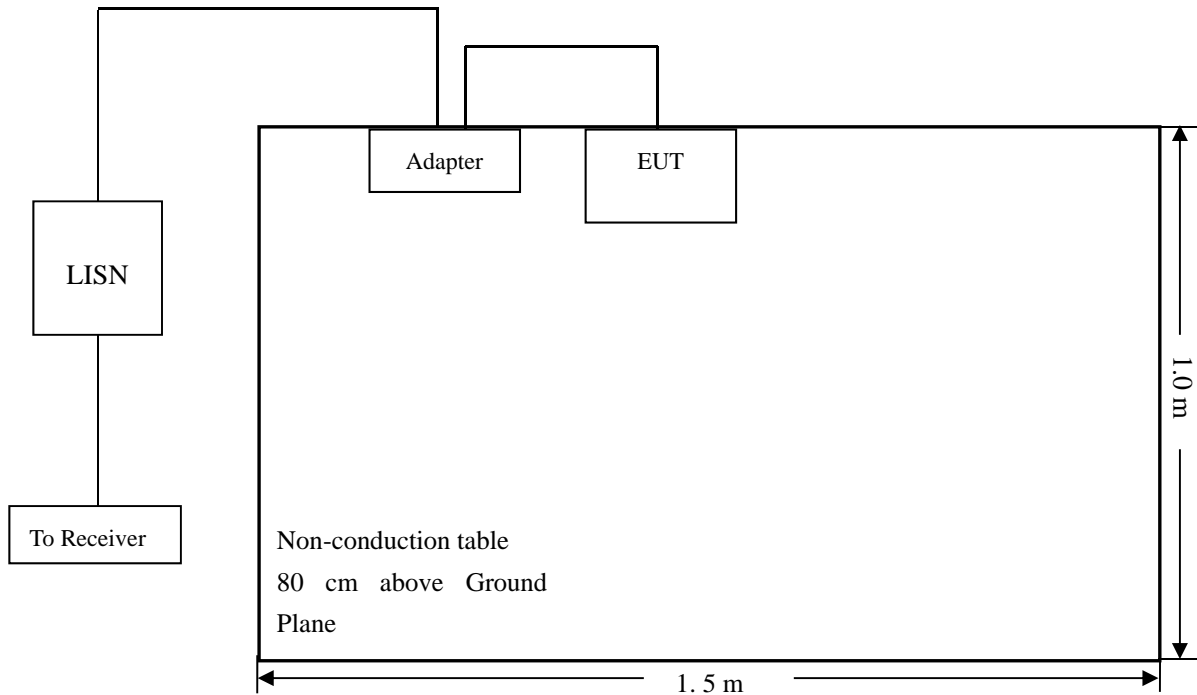
N/A: not applicable

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:

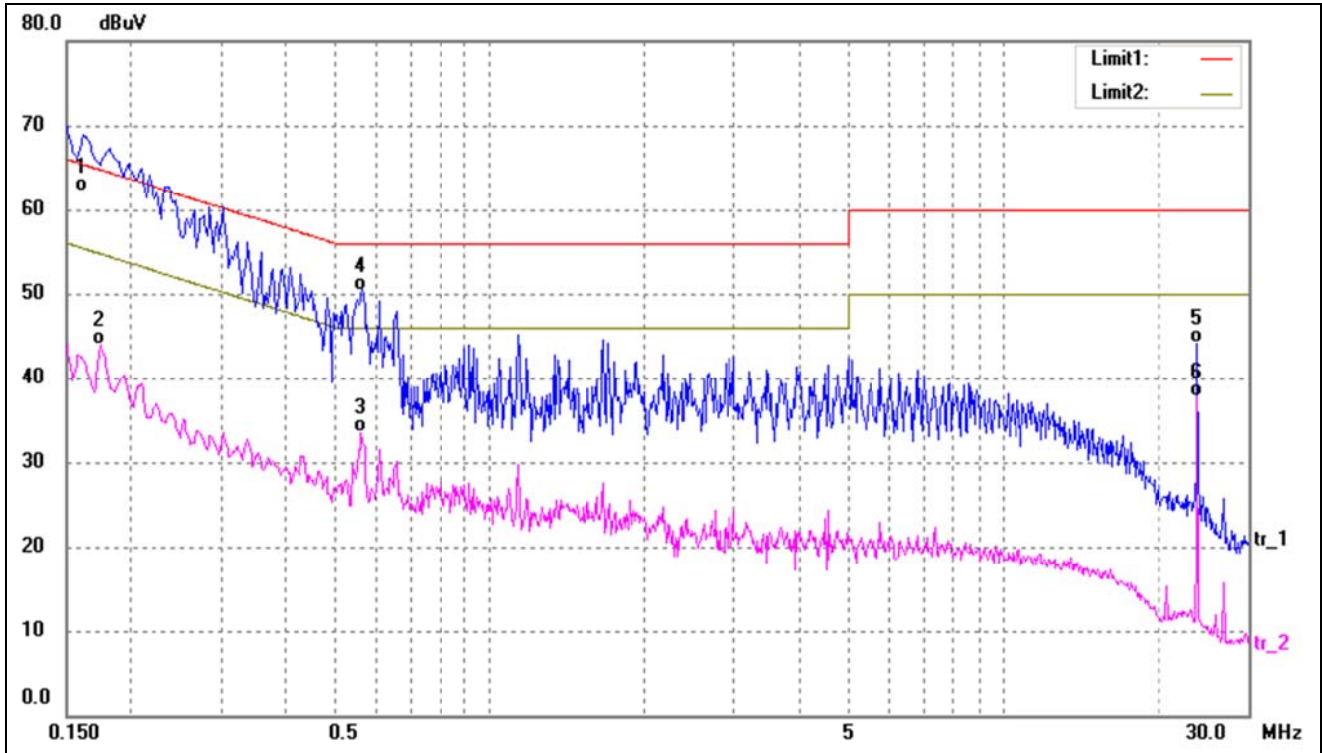
-3.01 dB at 0.1620 MHz in the Line, QP detector, TM1 mode, 0.15-30MHz

3.5 Conducted Emissions Test Data

Plot of Conducted Emissions Test Data

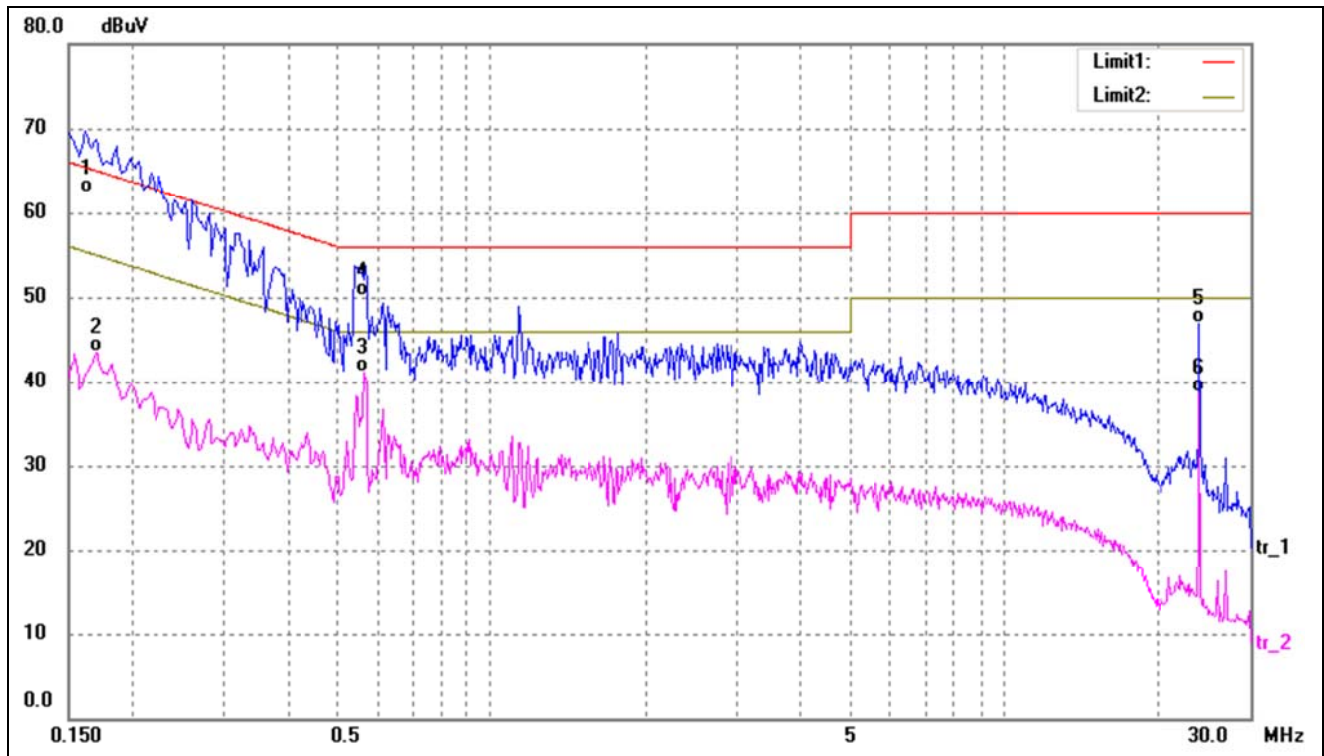
EUT: 4G Smart Phone
 Tested Model: JS551
 Operating Condition: TM1
 Comment: AC 120V/60Hz

Test Specification: Neutral



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Detector |
|-----|-----------------|----------------|----------------|---------------|--------------|-------------|----------|
| 1* | 0.1620 | 52.30 | 9.84 | 62.14 | 65.36 | -3.22 | QP |
| 2 | 0.1740 | 34.14 | 9.83 | 43.97 | 54.77 | -10.80 | AVG |
| 3 | 0.5620 | 23.68 | 9.80 | 33.48 | 46.00 | -12.52 | AVG |
| 4 | 0.5660 | 40.61 | 9.79 | 50.40 | 56.00 | -5.60 | QP |
| 5 | 24.0020 | 34.35 | 9.69 | 44.04 | 60.00 | -15.96 | QP |
| 6 | 24.0020 | 27.98 | 9.69 | 37.67 | 50.00 | -12.33 | AVG |

Test Specification: Line

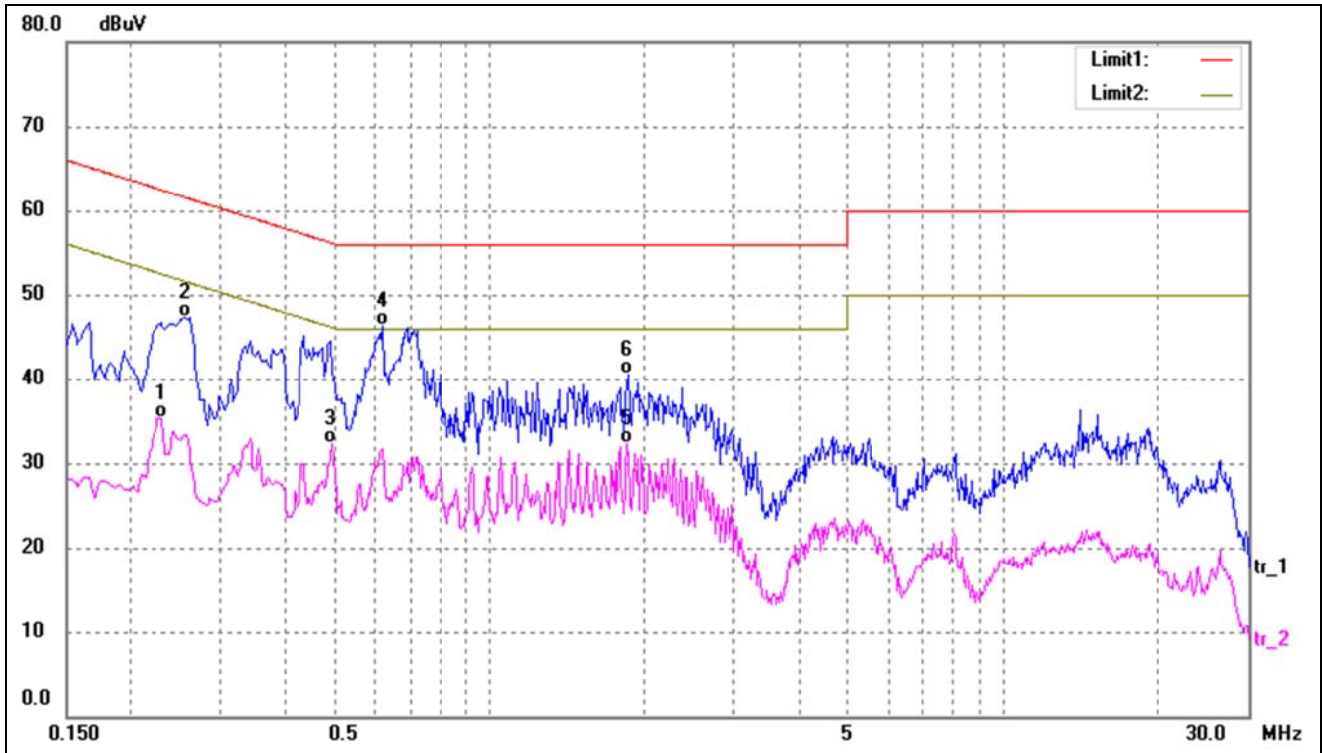


| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Detector |
|-----|-----------------|----------------|----------------|---------------|--------------|-------------|----------|
| 1* | 0.1620 | 52.51 | 9.84 | 62.35 | 65.36 | -3.01 | QP |
| 2 | 0.1700 | 33.61 | 9.83 | 43.44 | 54.96 | -11.52 | AVG |
| 3 | 0.5660 | 31.37 | 9.79 | 41.16 | 46.00 | -4.84 | AVG |
| 4 | 0.5700 | 40.36 | 9.79 | 50.15 | 56.00 | -5.85 | QP |
| 5 | 23.9980 | 37.25 | 9.69 | 46.94 | 60.00 | -13.06 | QP |
| 6 | 23.9980 | 29.09 | 9.69 | 38.78 | 50.00 | -11.22 | AVG |

Plot of Conducted Emissions Test Data

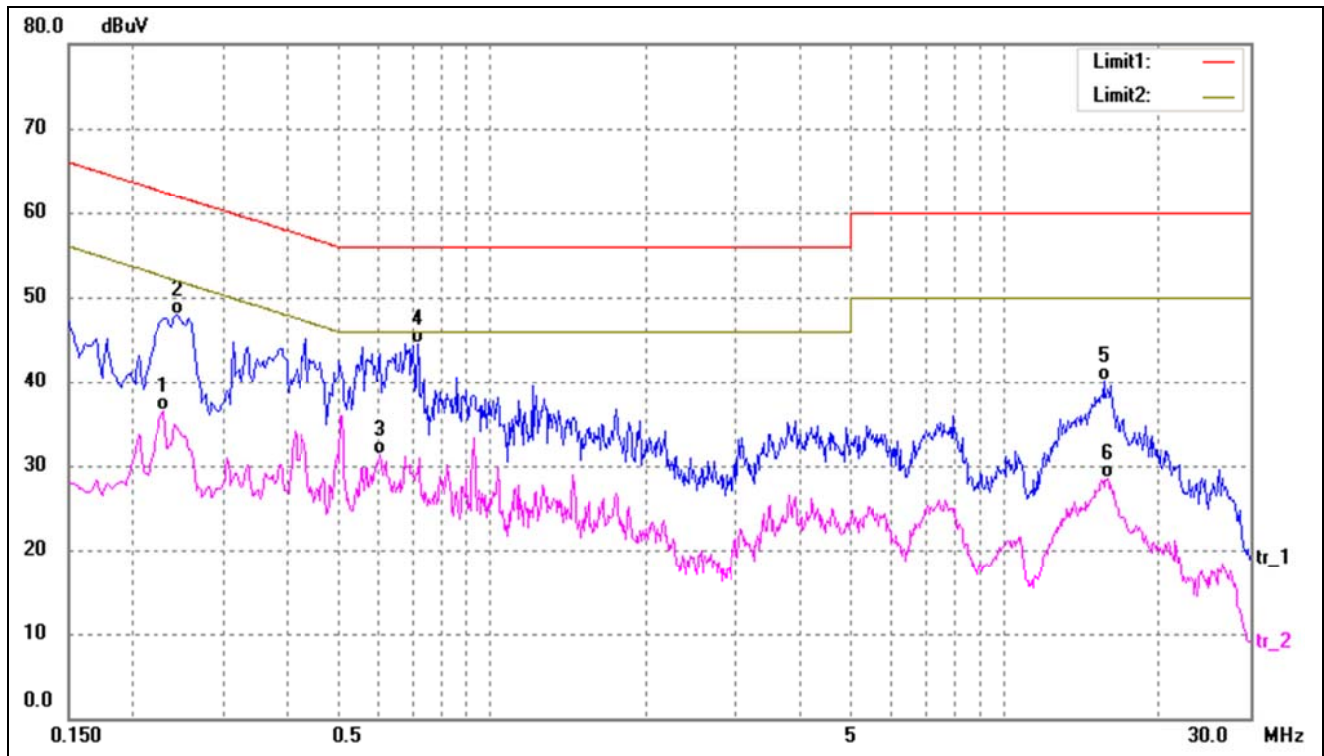
EUT: 4G Smart Phone
 Tested Model: JS551
 Operating Condition: TM2
 Comment: AC 120V/60Hz

Test Specification: Neutral



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Detector |
|-----|-----------------|----------------|----------------|---------------|--------------|-------------|----------|
| 1 | 0.2300 | 25.50 | 9.80 | 35.30 | 52.45 | -17.15 | AVG |
| 2 | 0.2540 | 37.53 | 9.80 | 47.33 | 61.63 | -14.30 | QP |
| 3 | 0.4940 | 22.45 | 9.80 | 32.25 | 46.10 | -13.85 | AVG |
| 4* | 0.6180 | 36.53 | 9.79 | 46.32 | 56.00 | -9.68 | QP |
| 5 | 1.8580 | 22.54 | 9.74 | 32.28 | 46.00 | -13.72 | AVG |
| 6 | 1.8620 | 30.85 | 9.74 | 40.59 | 56.00 | -15.41 | QP |

Test Specification: Line



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Detector |
|-----|-----------------|----------------|----------------|---------------|--------------|-------------|----------|
| 1 | 0.2300 | 26.72 | 9.80 | 36.52 | 52.45 | -15.93 | AVG |
| 2 | 0.2460 | 38.10 | 9.80 | 47.90 | 61.89 | -13.99 | QP |
| 3 | 0.6060 | 21.52 | 9.79 | 31.31 | 46.00 | -14.69 | AVG |
| 4* | 0.7180 | 34.70 | 9.78 | 44.48 | 56.00 | -11.52 | QP |
| 5 | 15.6020 | 30.54 | 9.62 | 40.16 | 60.00 | -19.84 | QP |
| 6 | 15.8660 | 18.86 | 9.62 | 28.48 | 50.00 | -21.52 | AVG |

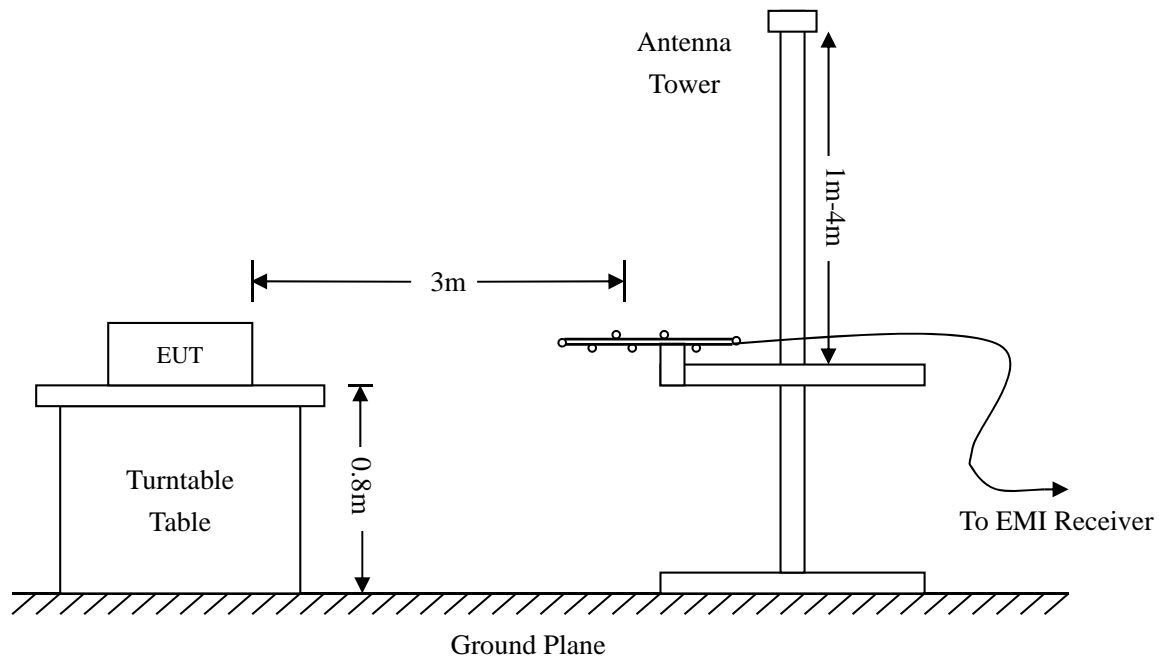
4. RADIATED EMISSION

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

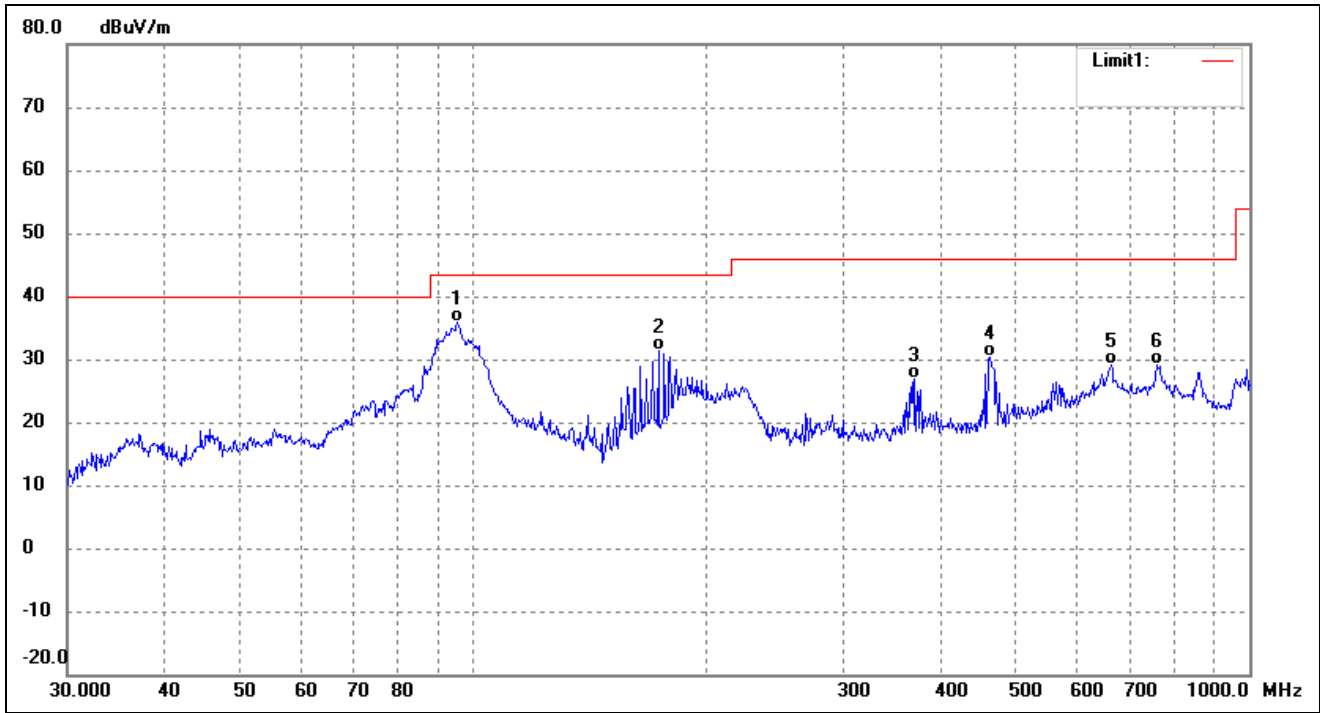
According to the data, the EUT complied with the FCC Part 15.109(a) rule, and had the worst margin of:

-3.22 dB at 89.5900 MHz in the Horizontal polarization, TM3 mode, 9 kHz to 1 GHz, 3Meters

Plot of Radiated Emissions Test Data (Below 1GHz)

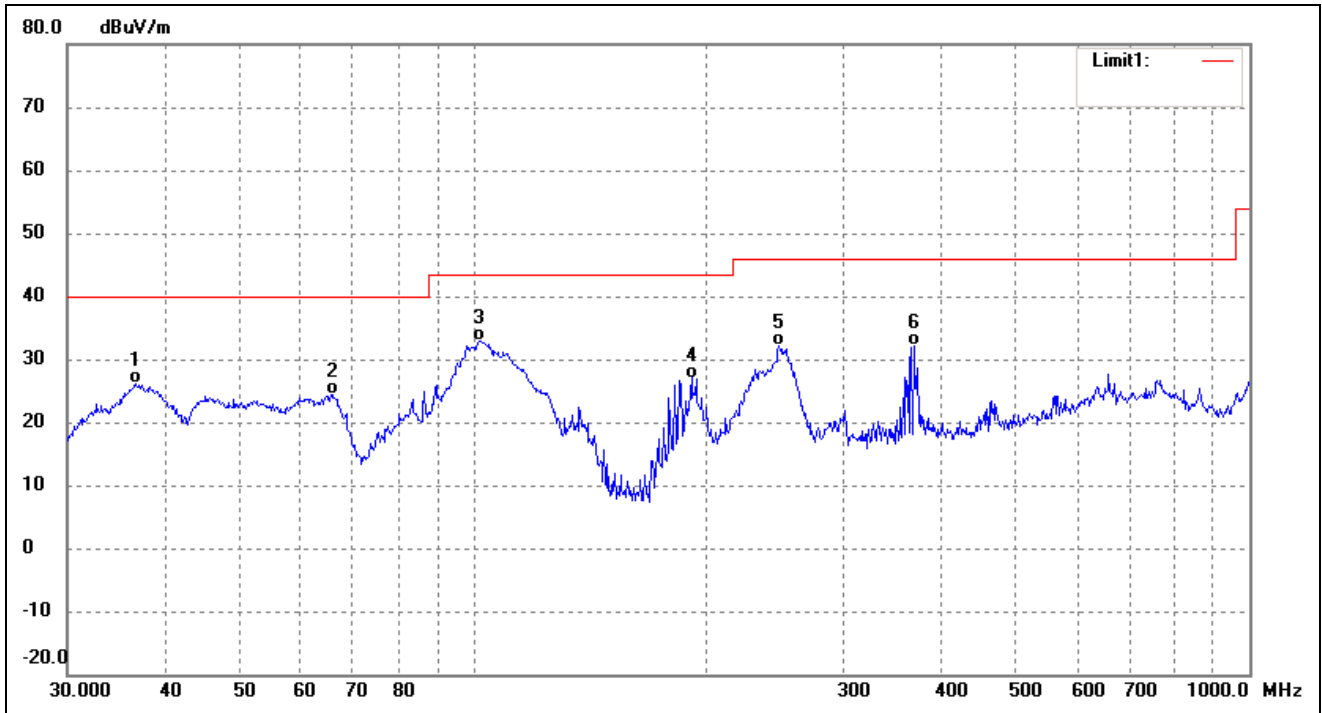
EUT: 4G Smart Phone
 Tested Model: JS551
 Operating Condition: TM1
 Comment: AC 120V/60Hz

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 | 95.4270 | 53.14 | -17.23 | 35.91 | 43.50 | -7.59 | 314 | 100 | QP |
| 2 | 173.2051 | 50.46 | -19.06 | 31.40 | 43.50 | -12.10 | 98 | 100 | QP |
| 3 | 370.7023 | 35.72 | -8.89 | 26.83 | 46.00 | -19.17 | 320 | 100 | QP |
| 4 | 463.9696 | 37.14 | -6.72 | 30.42 | 46.00 | -15.58 | 101 | 100 | QP |
| 5 | 663.4729 | 30.45 | -1.31 | 29.14 | 46.00 | -16.86 | 277 | 100 | QP |
| 6 | 760.7036 | 29.75 | -0.64 | 29.11 | 46.00 | -16.89 | 107 | 100 | QP |

Test Specification: Vertical

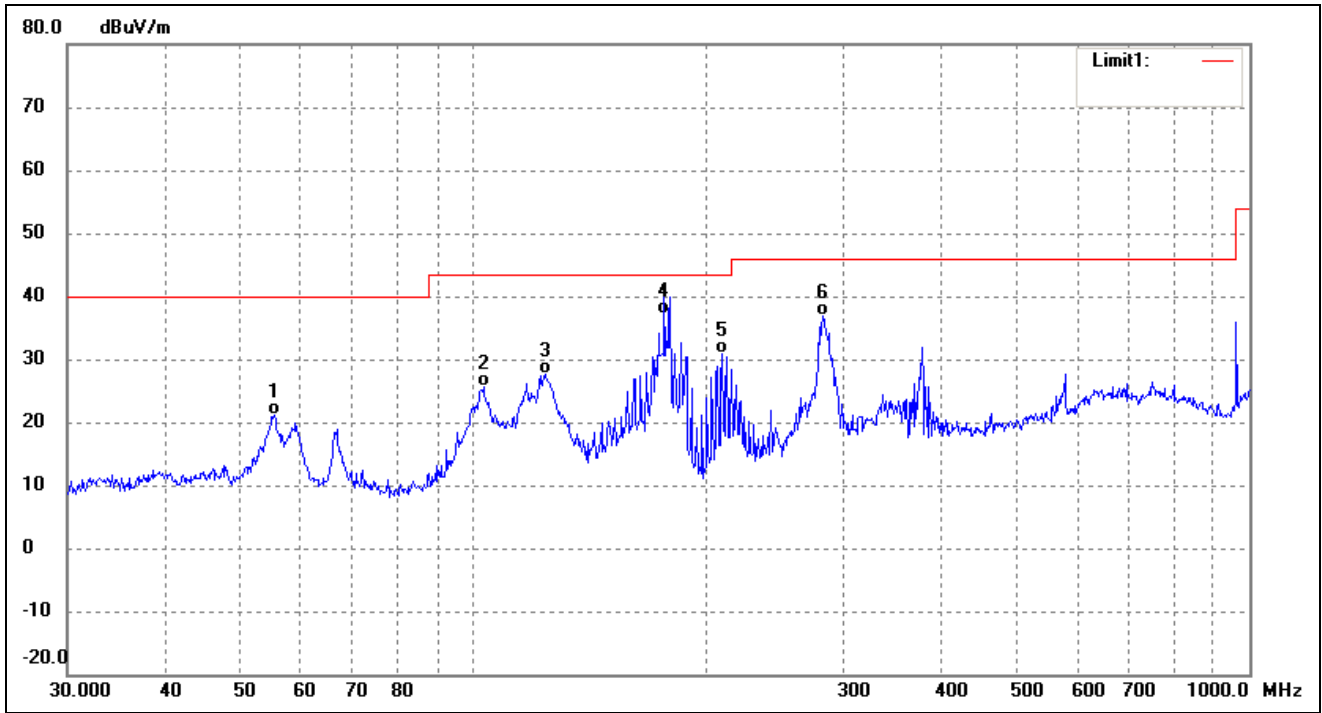


| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree () | Height (cm) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|------------|-------------|--------|
| 1 | 36.7662 | 43.07 | -17.04 | 26.03 | 40.00 | -13.97 | 332 | 100 | QP |
| 2 | 66.0342 | 42.30 | -17.83 | 24.47 | 40.00 | -15.53 | 92 | 100 | QP |
| 3 | 101.6443 | 49.38 | -16.58 | 32.80 | 43.50 | -10.70 | 346 | 100 | QP |
| 4 | 191.0738 | 45.61 | -18.61 | 27.00 | 43.50 | -16.50 | 111 | 100 | QP |
| 5 | 247.6819 | 44.33 | -12.23 | 32.10 | 46.00 | -13.90 | 180 | 100 | QP |
| 6 | 369.4047 | 40.93 | -8.89 | 32.04 | 46.00 | -13.96 | 210 | 100 | QP |

Plot of Radiated Emissions Test Data (Below 1GHz)

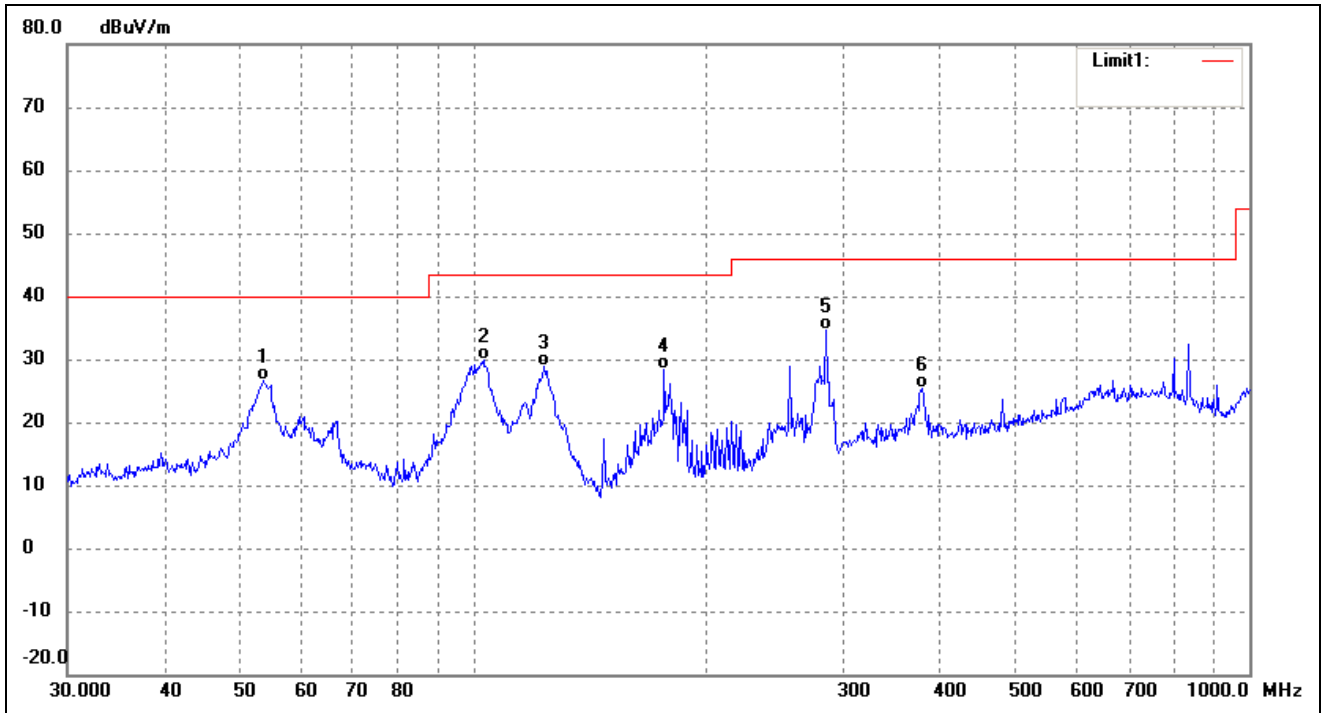
EUT: 4G Smart Phone
 Tested Model: JS551
 Operating Condition: TM2
 Comment: AC 120V/60Hz

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 | 55.4147 | 37.60 | -16.51 | 21.09 | 40.00 | -18.91 | 179 | 100 | QP |
| 2 | 103.0800 | 42.34 | -16.59 | 25.75 | 43.50 | -17.75 | 154 | 100 | QP |
| 3 | 123.6985 | 44.68 | -16.97 | 27.71 | 43.50 | -15.79 | 58 | 100 | QP |
| 4 | 176.2686 | 56.30 | -19.07 | 37.23 | 43.50 | -6.27 | 146 | 100 | QP |
| 5 | 209.3129 | 47.11 | -16.17 | 30.94 | 43.50 | -12.56 | 284 | 100 | QP |
| 6 | 281.9946 | 47.21 | -10.29 | 36.92 | 46.00 | -9.08 | 195 | 100 | QP |

Test Specification: Vertical

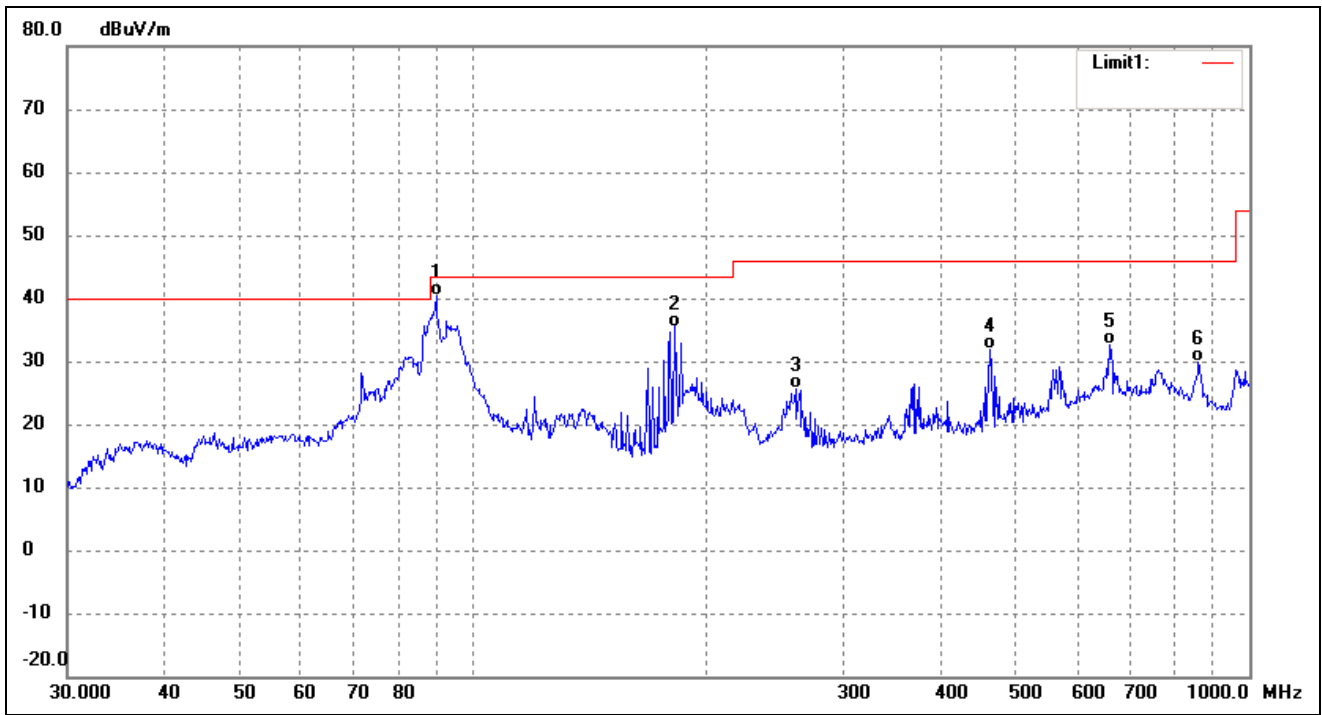


| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree () | Height (cm) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|------------|-------------|--------|
| 1 | 53.6932 | 43.22 | -16.49 | 26.73 | 40.00 | -13.27 | 64 | 100 | QP |
| 2 | 103.0800 | 46.53 | -16.59 | 29.94 | 43.50 | -13.56 | 113 | 100 | QP |
| 3 | 123.2655 | 45.92 | -16.94 | 28.98 | 43.50 | -14.52 | 85 | 100 | QP |
| 4 | 176.2686 | 47.44 | -19.07 | 28.37 | 43.50 | -15.13 | 117 | 100 | QP |
| 5 | 284.9767 | 44.69 | -10.17 | 34.52 | 46.00 | -11.48 | 242 | 100 | QP |
| 6 | 378.5843 | 34.32 | -8.87 | 25.45 | 46.00 | -20.55 | 213 | 100 | QP |

Plot of Radiated Emissions Test Data (Below 1GHz)

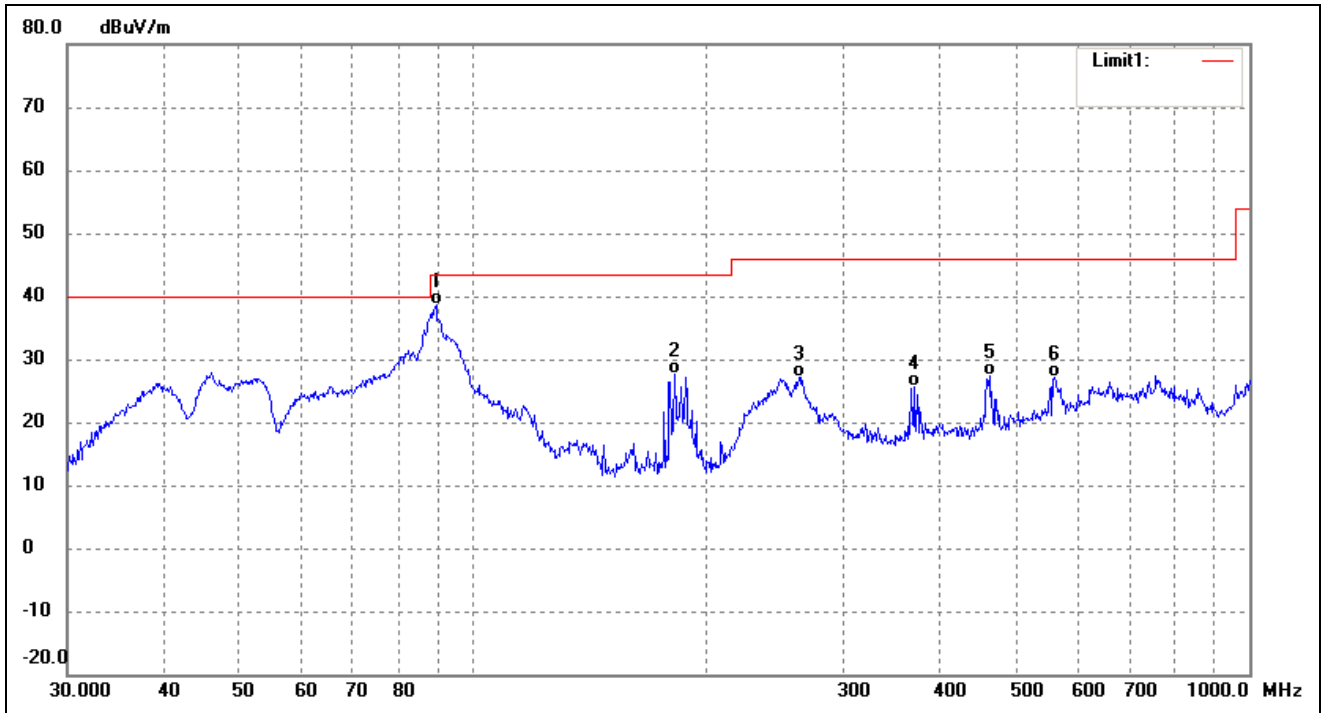
EUT: 4G Smart Phone
 Tested Model: JS551
 Operating Condition: TM3
 Comment: AC 120V/60Hz

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 | 89.5900 | 58.44 | -18.16 | 40.28 | 43.50 | -3.22 | 87 | 100 | QP |
| 2 | 181.9202 | 54.50 | -19.00 | 35.50 | 43.50 | -8.00 | 106 | 100 | QP |
| 3 | 260.1444 | 37.52 | -11.77 | 25.75 | 46.00 | -20.25 | 62 | 100 | QP |
| 4 | 463.9696 | 38.63 | -6.72 | 31.91 | 46.00 | -14.09 | 283 | 100 | QP |
| 5 | 661.1505 | 34.02 | -1.44 | 32.58 | 46.00 | -13.42 | 342 | 100 | QP |
| 6 | 860.0352 | 32.47 | -2.69 | 29.78 | 46.00 | -16.22 | 155 | 100 | QP |

Test Specification: Vertical

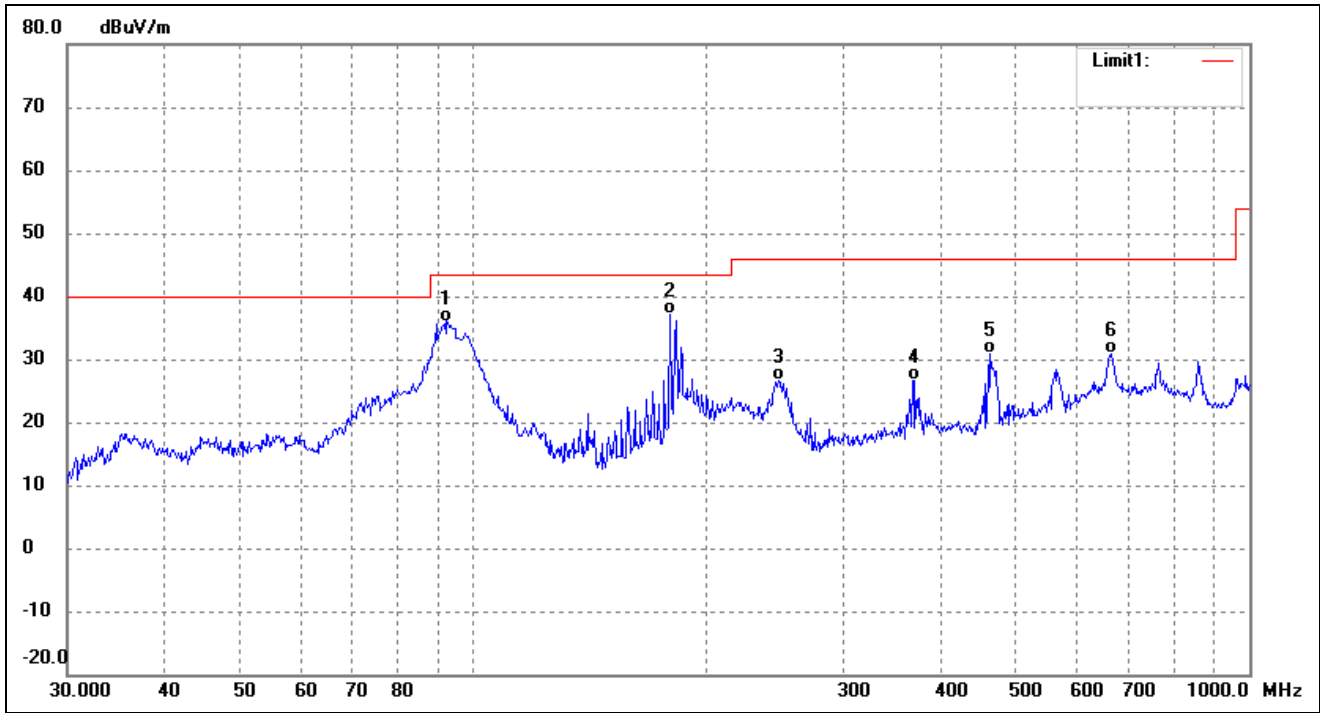


| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree () | Height (cm) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|------------|-------------|--------|
| 1 | 89.5899 | 56.73 | -18.16 | 38.57 | 43.50 | -4.93 | 182 | 100 | QP |
| 2 | 181.9202 | 46.64 | -19.00 | 27.64 | 43.50 | -15.86 | 157 | 100 | QP |
| 3 | 262.8955 | 38.73 | -11.57 | 27.16 | 46.00 | -18.84 | 54 | 100 | QP |
| 4 | 370.7023 | 34.43 | -8.89 | 25.54 | 46.00 | -20.46 | 193 | 100 | QP |
| 5 | 462.3455 | 34.22 | -6.72 | 27.50 | 46.00 | -18.50 | 106 | 100 | QP |
| 6 | 560.6928 | 32.06 | -4.94 | 27.12 | 46.00 | -18.88 | 107 | 100 | QP |

Plot of Radiated Emissions Test Data (Below 1GHz)

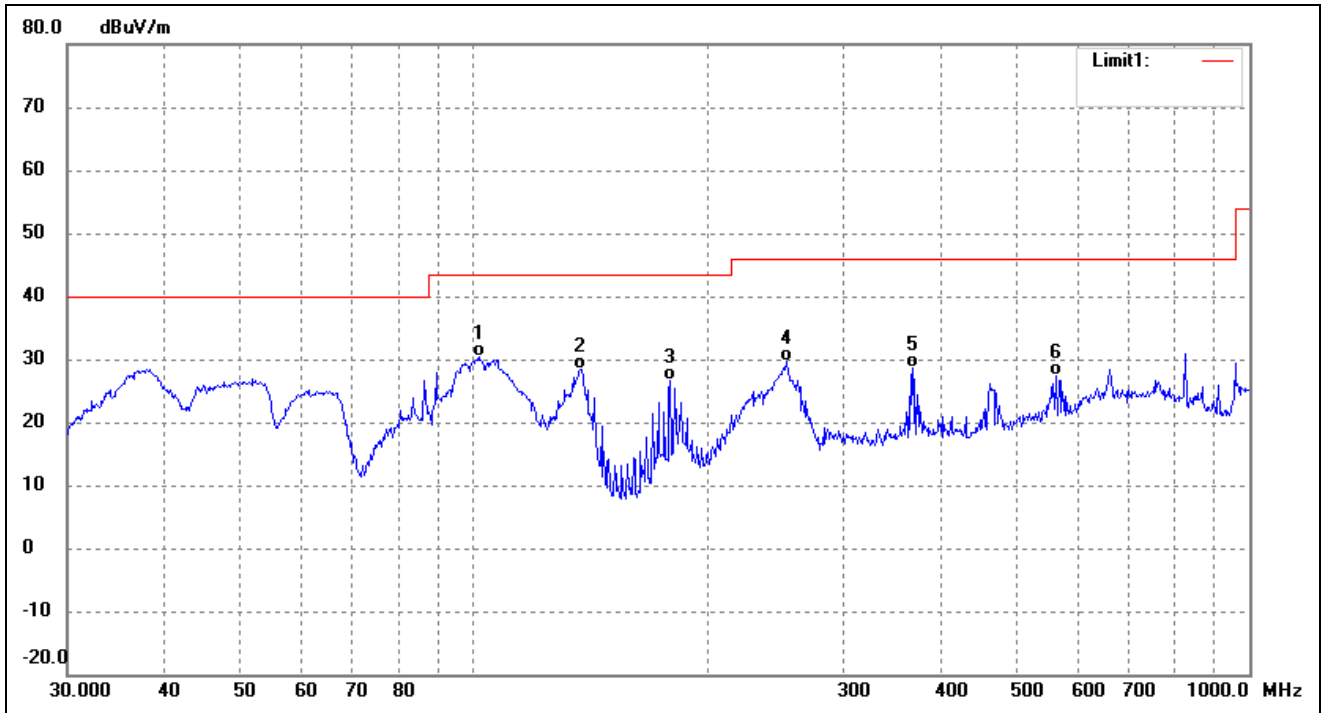
EUT: 4G Smart Phone
 Tested Model: JS551
 Operating Condition: TM4
 Comment: AC 120V/60Hz

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 | 92.4624 | 53.69 | -17.69 | 36.00 | 43.50 | -7.50 | 232 | 100 | QP |
| 2 | 179.3863 | 56.26 | -19.08 | 37.18 | 43.50 | -6.32 | 91 | 100 | QP |
| 3 | 247.6819 | 38.83 | -12.23 | 26.60 | 46.00 | -19.40 | 166 | 100 | QP |
| 4 | 370.7023 | 35.55 | -8.89 | 26.66 | 46.00 | -19.34 | 91 | 100 | QP |
| 5 | 463.9696 | 37.61 | -6.72 | 30.89 | 46.00 | -15.11 | 71 | 100 | QP |
| 6 | 663.4729 | 32.08 | -1.31 | 30.77 | 46.00 | -15.23 | 210 | 100 | QP |

Test Specification: Vertical

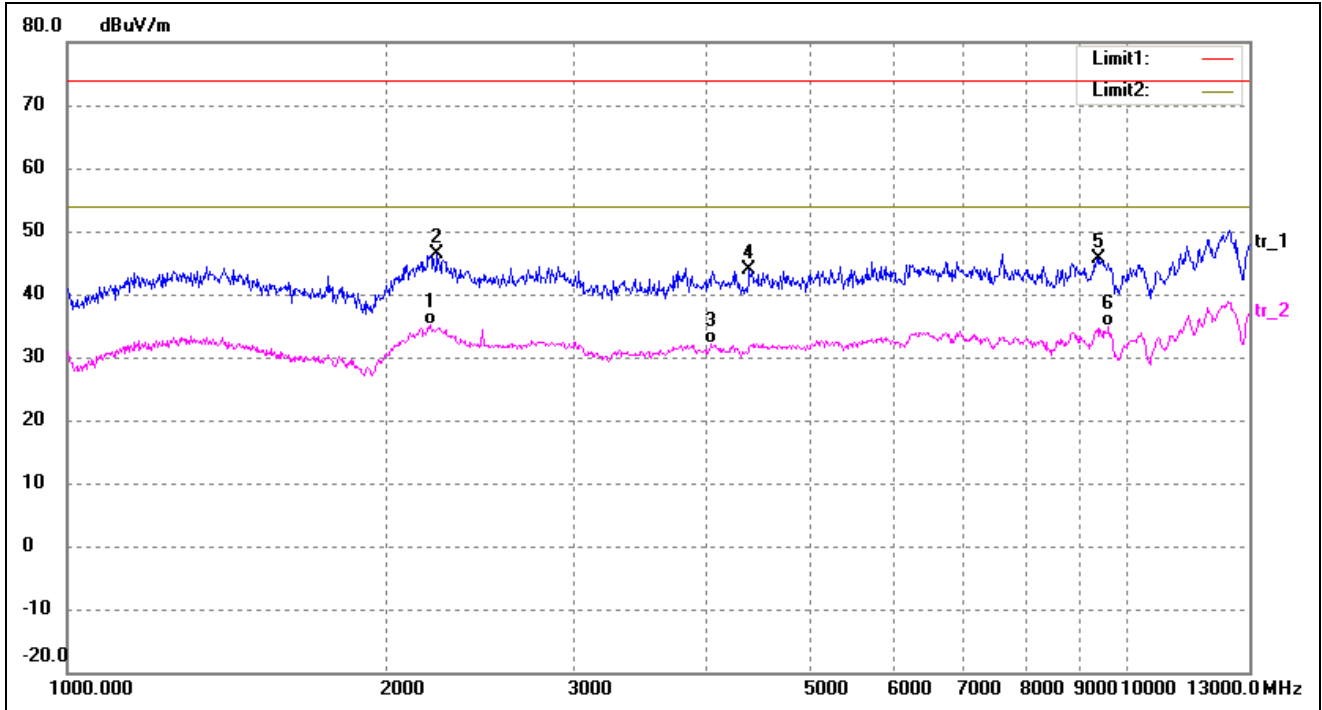


| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree () | Height (cm) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|------------|-------------|--------|
| 1 | 101.6443 | 46.99 | -16.58 | 30.41 | 43.50 | -13.09 | 294 | 100 | QP |
| 2 | 137.4202 | 46.42 | -18.12 | 28.30 | 43.50 | -15.20 | 95 | 100 | QP |
| 3 | 179.3864 | 45.67 | -19.08 | 26.59 | 43.50 | -16.91 | 83 | 100 | QP |
| 4 | 252.9482 | 41.65 | -12.03 | 29.62 | 46.00 | -16.38 | 101 | 100 | QP |
| 5 | 368.1116 | 37.51 | -8.90 | 28.61 | 46.00 | -17.39 | 129 | 100 | QP |
| 6 | 562.6624 | 32.18 | -4.84 | 27.34 | 46.00 | -18.66 | 182 | 100 | QP |

Plot of Radiated Emissions Test Data (Above 1GHz)

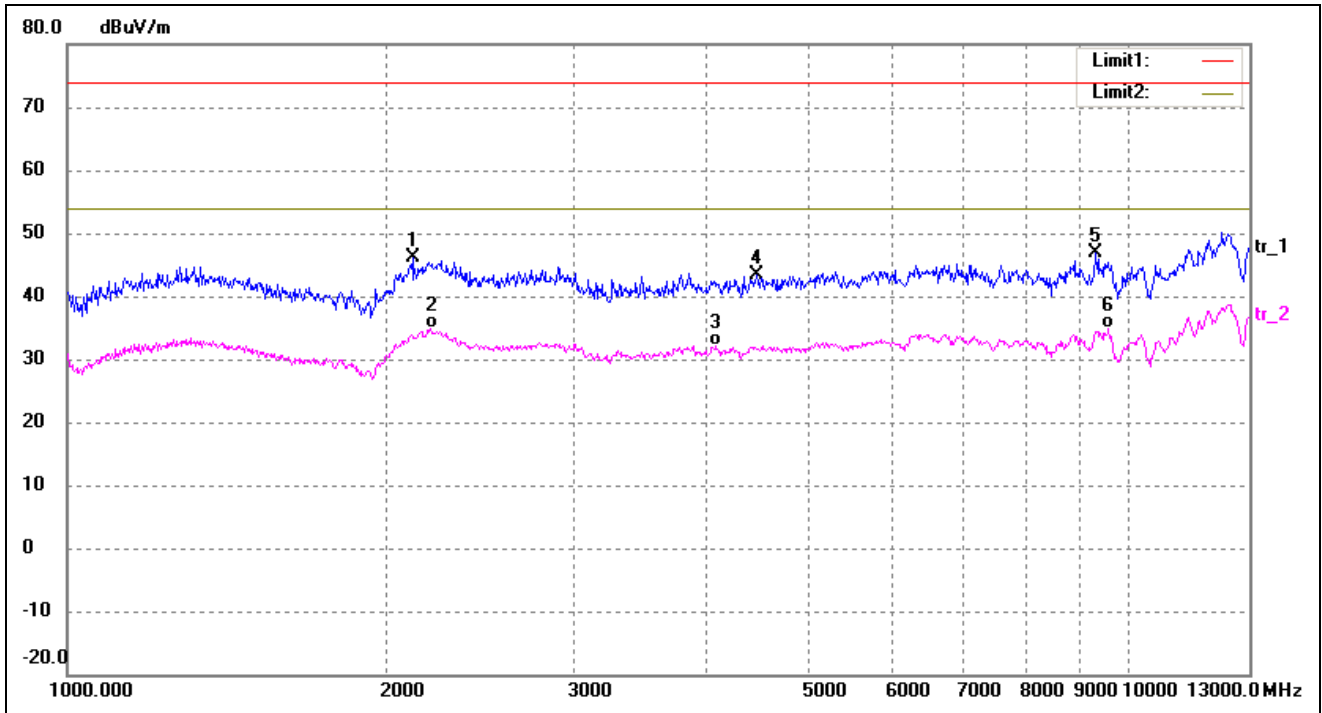
EUT: 4G Smart Phone
 Tested Model: JS551
 Operating Condition: TM1
 Comment: AC 120V/60Hz

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 | 2197.762 | 40.18 | -5.15 | 35.03 | 54.00 | -18.97 | 356 | 100 | AVG |
| 2 | 2231.846 | 51.92 | -5.53 | 46.39 | 74.00 | -27.61 | 94 | 100 | peak |
| 3 | 4046.682 | 39.49 | -7.31 | 32.18 | 54.00 | -21.82 | 232 | 100 | AVG |
| 4 | 4392.839 | 50.64 | -6.74 | 43.90 | 74.00 | -30.10 | 93 | 100 | peak |
| 5 | 9361.784 | 45.15 | 0.43 | 45.58 | 74.00 | -28.42 | 163 | 100 | peak |
| 6 | 9580.410 | 34.14 | 0.64 | 34.78 | 54.00 | -19.22 | 132 | 100 | AVG |

Test Specification: Vertical

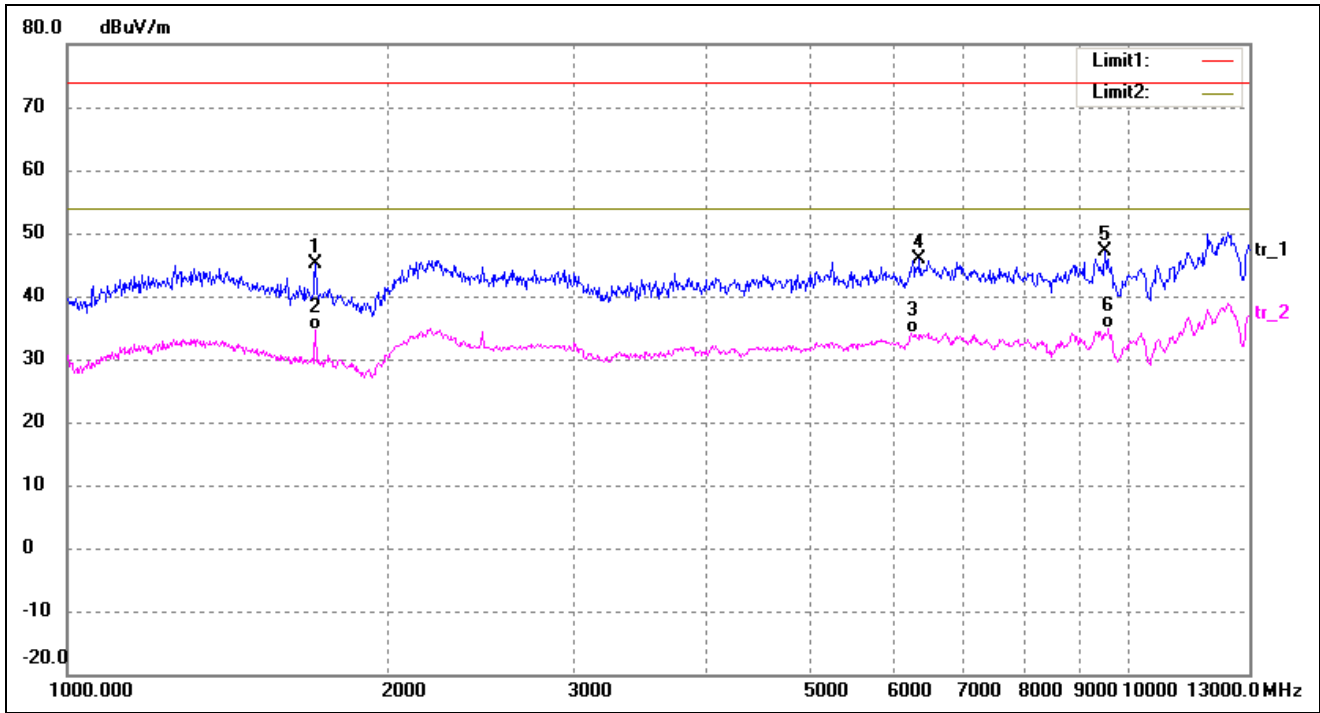


| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree () | Height (cm) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|------------|-------------|--------|
| 1 | 2114.811 | 52.04 | -5.97 | 46.07 | 74.00 | -27.93 | 310 | 100 | peak |
| 2 | 2197.762 | 40.08 | -5.15 | 34.93 | 54.00 | -19.07 | 98 | 100 | AVG |
| 3 | 4088.414 | 39.37 | -7.23 | 32.14 | 54.00 | -21.86 | 236 | 100 | AVG |
| 4 | 4460.967 | 50.01 | -6.67 | 43.34 | 74.00 | -30.66 | 115 | 100 | peak |
| 5 | 9313.882 | 46.56 | 0.39 | 46.95 | 74.00 | -27.05 | 218 | 100 | peak |
| 6 | 9580.410 | 34.12 | 0.64 | 34.76 | 54.00 | -19.24 | 164 | 100 | AVG |

Plot of Radiated Emissions Test Data (Above 1GHz)

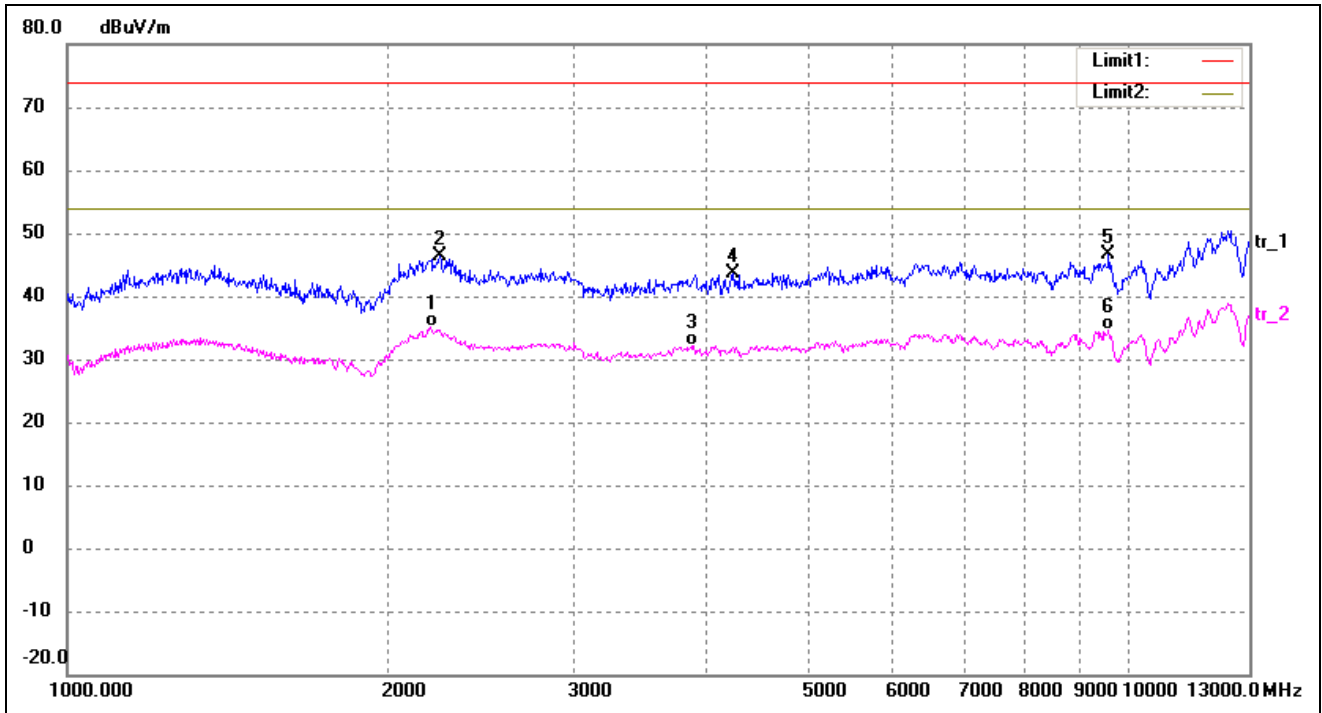
EUT: 4G Smart Phone
 Tested Model: JS551
 Operating Condition: TM2
 Comment: AC 120V/60Hz

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 | 1713.674 | 54.99 | -9.96 | 45.03 | 74.00 | -28.97 | 286 | 100 | peak |
| 2 | 1713.674 | 44.47 | -9.96 | 34.51 | 54.00 | -19.49 | 211 | 100 | AVG |
| 3 | 6242.457 | 37.46 | -3.38 | 34.08 | 54.00 | -19.92 | 91 | 100 | AVG |
| 4 | 6355.550 | 49.18 | -3.33 | 45.85 | 74.00 | -28.15 | 287 | 100 | peak |
| 5 | 9506.973 | 46.59 | 0.58 | 47.17 | 74.00 | -26.83 | 278 | 100 | peak |
| 6 | 9580.410 | 34.31 | 0.64 | 34.95 | 54.00 | -19.05 | 233 | 100 | AVG |

Test Specification: Vertical

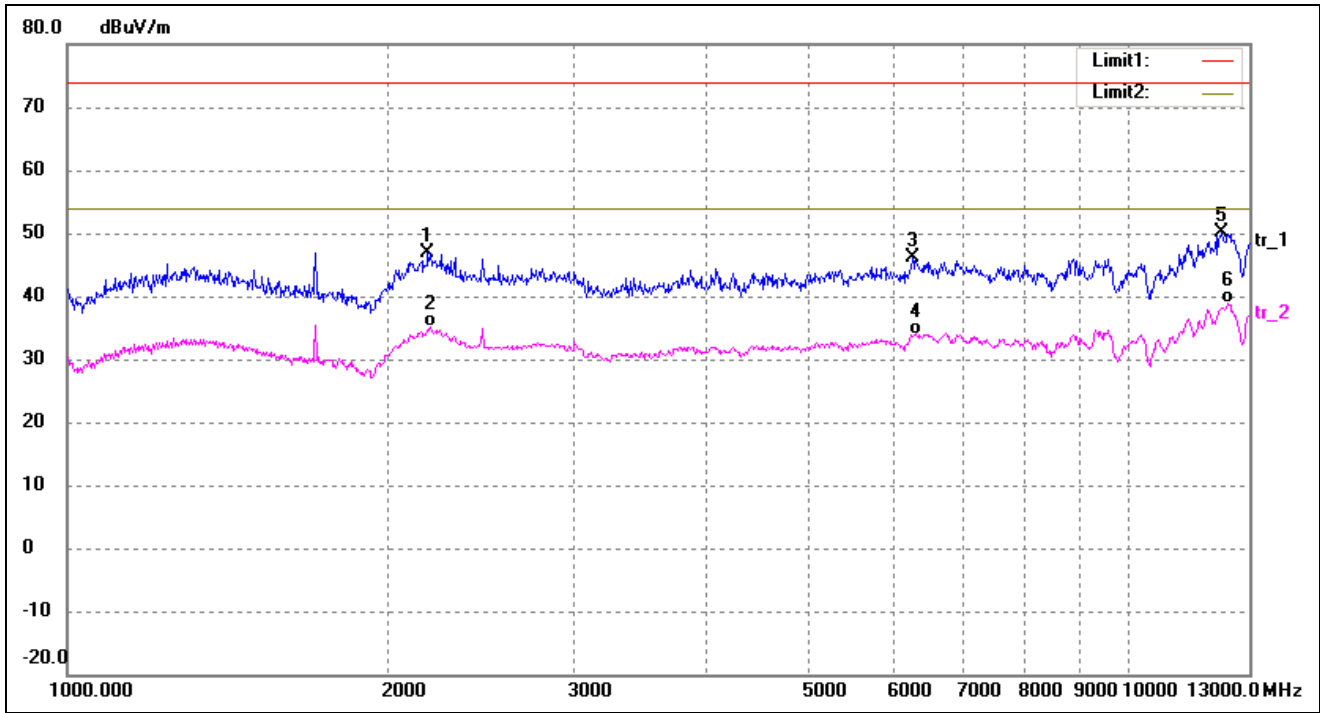


| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree () | Height (cm) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|------------|-------------|--------|
| 1 | 2197.762 | 40.29 | -5.15 | 35.14 | 54.00 | -18.86 | 277 | 100 | AVG |
| 2 | 2243.325 | 51.94 | -5.65 | 46.29 | 74.00 | -27.71 | 130 | 100 | peak |
| 3 | 3874.022 | 39.90 | -7.76 | 32.14 | 54.00 | -21.86 | 61 | 100 | AVG |
| 4 | 4237.894 | 50.65 | -6.91 | 43.74 | 74.00 | -30.26 | 265 | 100 | peak |
| 5 | 9580.410 | 45.98 | 0.64 | 46.62 | 74.00 | -27.38 | 196 | 100 | peak |
| 6 | 9580.410 | 34.07 | 0.64 | 34.71 | 54.00 | -19.29 | 180 | 100 | AVG |

Plot of Radiated Emissions Test Data (Above 1GHz)

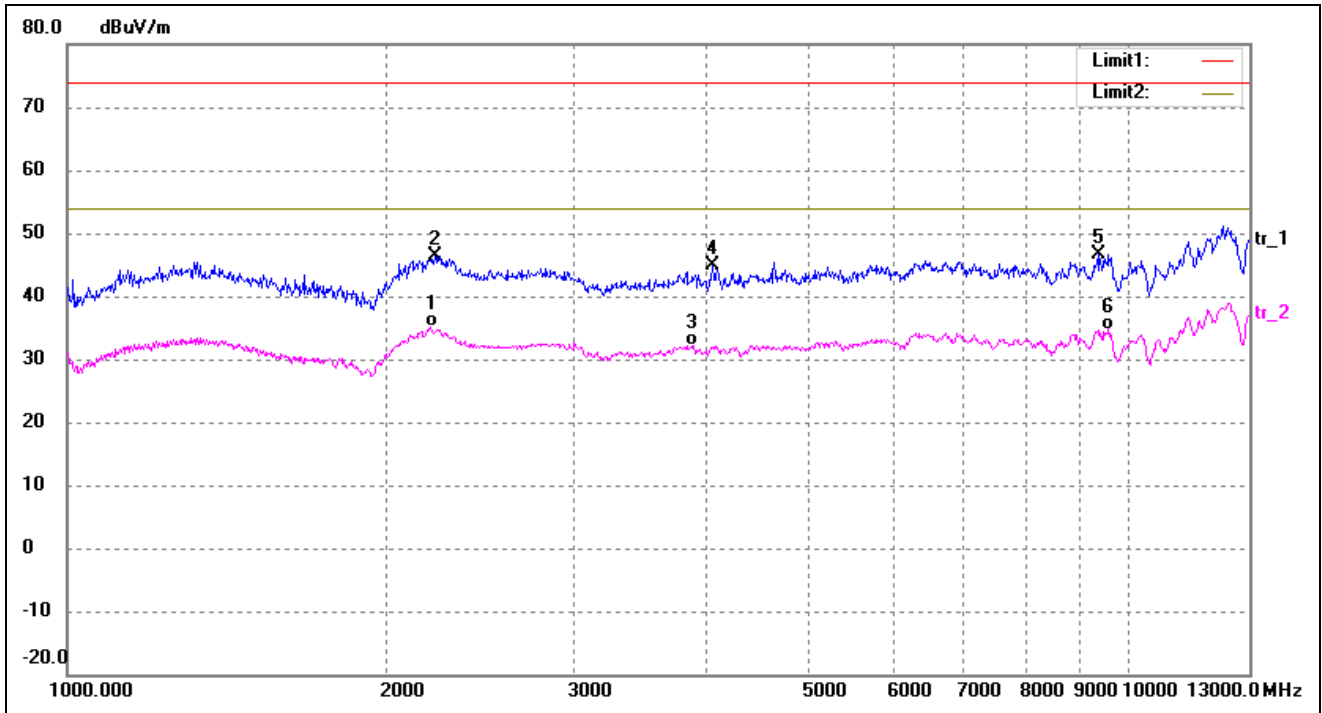
EUT: 4G Smart Phone
 Tested Model: JS551
 Operating Condition: TM3
 Comment: AC 120V/60Hz

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 | 2186.516 | 52.01 | -5.05 | 46.96 | 74.00 | -27.04 | 190 | 100 | peak |
| 2 | 2197.762 | 40.28 | -5.15 | 35.13 | 54.00 | -18.87 | 199 | 100 | AVG |
| 3 | 6258.489 | 49.40 | -3.38 | 46.02 | 74.00 | -27.98 | 142 | 100 | peak |
| 4 | 6306.833 | 37.34 | -3.34 | 34.00 | 54.00 | -20.00 | 131 | 100 | AVG |
| 5 | 12255.263 | 43.11 | 6.95 | 50.06 | 74.00 | -23.94 | 51 | 100 | peak |
| 6 | 12413.446 | 31.50 | 7.39 | 38.89 | 54.00 | -15.11 | 183 | 100 | AVG |

Test Specification: Vertical

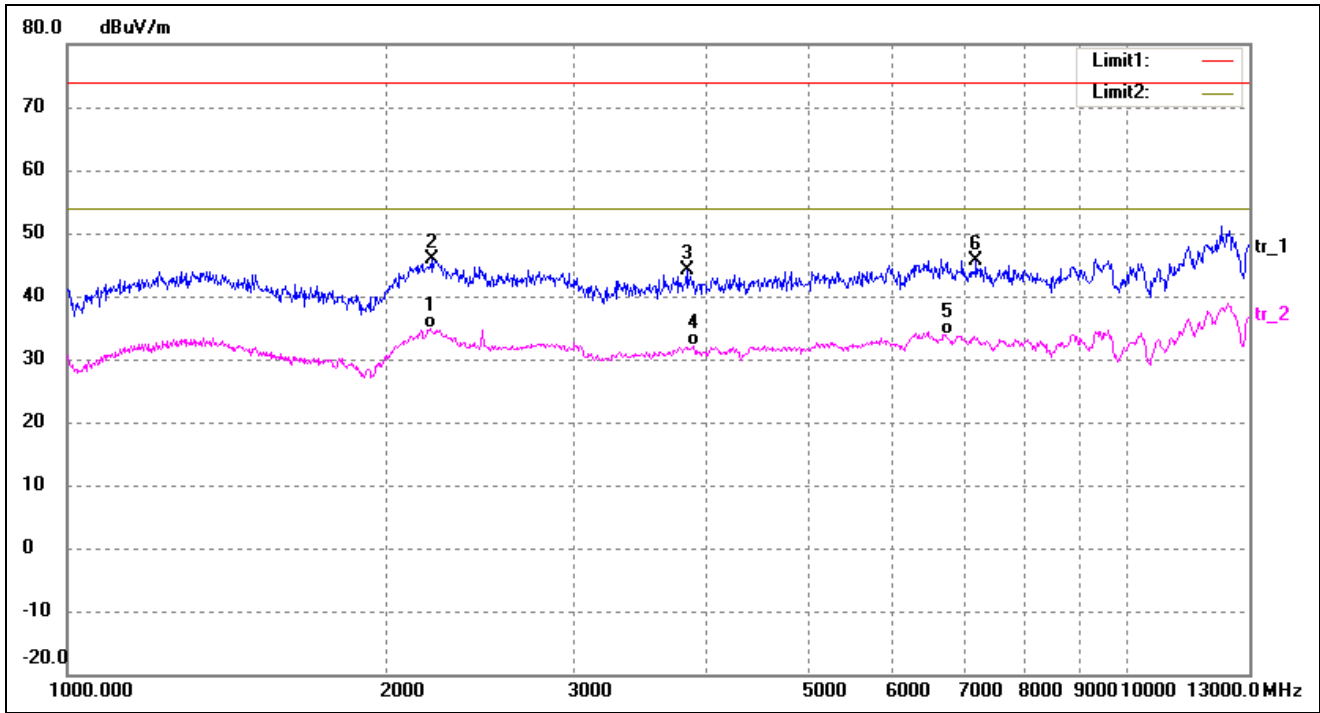


| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree () | Height (cm) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|------------|-------------|--------|
| 1 | 2197.762 | 40.29 | -5.15 | 35.14 | 54.00 | -18.86 | 89 | 100 | AVG |
| 2 | 2220.426 | 51.71 | -5.40 | 46.31 | 74.00 | -27.69 | 130 | 100 | peak |
| 3 | 3874.022 | 39.90 | -7.76 | 32.14 | 54.00 | -21.86 | 144 | 100 | AVG |
| 4 | 4057.075 | 52.08 | -7.29 | 44.79 | 74.00 | -29.21 | 93 | 100 | peak |
| 5 | 9361.784 | 46.24 | 0.43 | 46.67 | 74.00 | -27.33 | 197 | 100 | peak |
| 6 | 9580.410 | 34.11 | 0.64 | 34.75 | 54.00 | -19.25 | 339 | 100 | AVG |

Plot of Radiated Emissions Test Data (Above 1GHz)

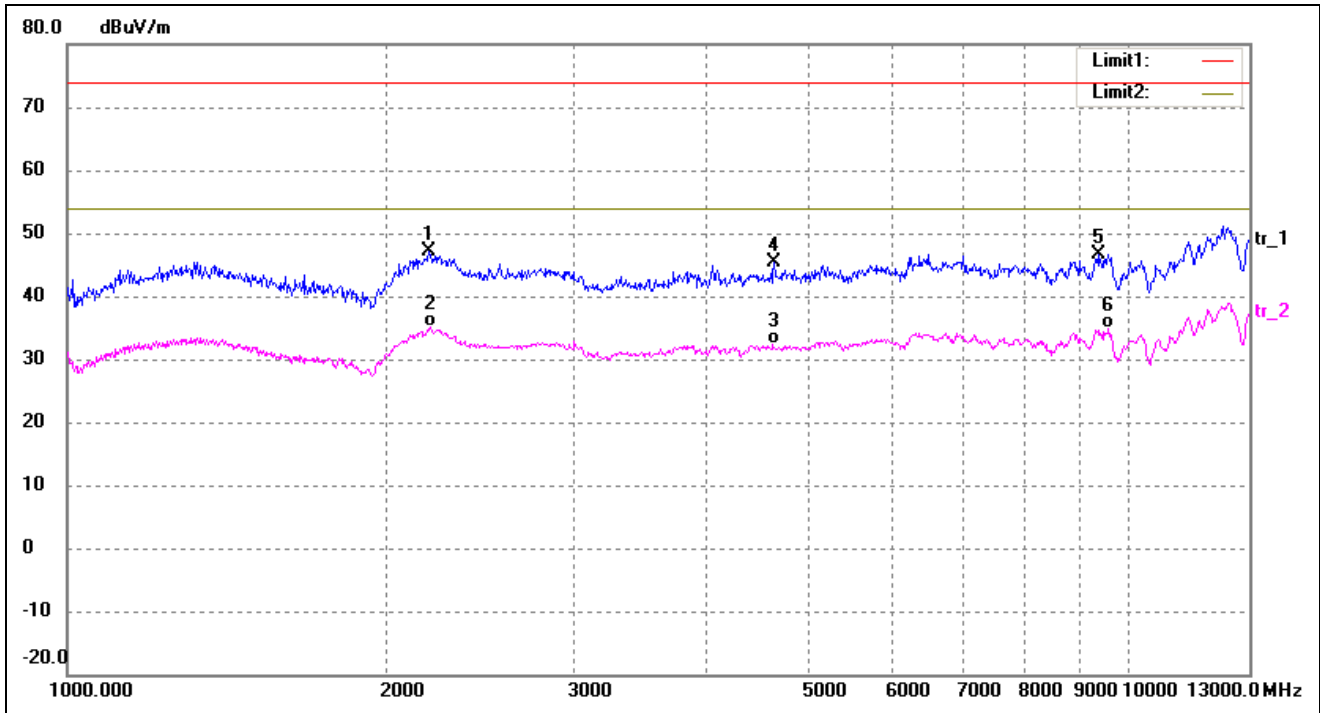
EUT: 4G Smart Phone
 Tested Model: JS551
 Operating Condition: TM4
 Comment: AC 120V/60Hz

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 | 2197.762 | 40.03 | -5.15 | 34.88 | 54.00 | -19.12 | 250 | 100 | AVG |
| 2 | 2209.065 | 51.05 | -5.29 | 45.76 | 74.00 | -28.24 | 99 | 100 | peak |
| 3 | 3834.479 | 51.87 | -7.85 | 44.02 | 74.00 | -29.98 | 325 | 100 | peak |
| 4 | 3893.947 | 39.79 | -7.71 | 32.08 | 54.00 | -21.92 | 92 | 100 | AVG |
| 5 | 6724.499 | 37.09 | -3.28 | 33.81 | 54.00 | -20.19 | 109 | 100 | AVG |
| 6 | 7188.238 | 48.72 | -2.98 | 45.74 | 74.00 | -28.26 | 228 | 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 | 2192.132 | 52.33 | -5.09 | 47.24 | 74.00 | -26.76 | 272 | 100 | peak |
| 2 | 2197.762 | 40.29 | -5.15 | 35.14 | 54.00 | -18.86 | 95 | 100 | AVG |
| 3 | 4624.068 | 38.85 | -6.52 | 32.33 | 54.00 | -21.67 | 341 | 100 | AVG |
| 4 | 4635.943 | 51.79 | -6.51 | 45.28 | 74.00 | -28.72 | 93 | 100 | peak |
| 5 | 9361.784 | 46.24 | 0.43 | 46.67 | 74.00 | -27.33 | 117 | 100 | peak |
| 6 | 9580.410 | 34.16 | 0.64 | 34.80 | 54.00 | -19.20 | 259 | 100 | AVG |

Note: Testing is carried out with frequency rang 9kHz to 13GHz, 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 *****