

FCC Test Report

Product Name : MOTOROLA SF520
Model No. : MOTOROLA SF520
FCC ID : IHDT6QG1

Applicant : Motorola Mobility, LLC.

Address : 8000 W. Sunrise Blvd, Suite A Plantation, FL 33322, USA

Date of Receipt : 2015/05/29
Issued Date : 2015/06/05
Report No. : 1560091R-ITUSP01V02
Report Version : V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

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The test report shall not be reproduced without the written approval of Quietek Corporation.

Test Report Certification

Issued Date : 2015/06/05
Report No. : 1560091R-ITUSP01V02



Product Name : MOTOROLA SF520
Applicant : Motorola Mobility, LLC.
Address : 8000 W. Sunrise Blvd, Suite A Plantation, FL 33322, USA
Manufacturer : Motorola Mobility, LLC.
Address : 8000 W. Sunrise Blvd, Suite A Plantation, FL 33322, USA
Model No. : MOTOROLA SF520
EUT Rated Voltage : DC 3.7V
EUT Test Voltage : AC 120V / 60Hz, DC 3.7V
Trade Name : Motorola
Applicable : FCC CFR Title 47 Part 15 Subpart B: 2014 Class B
Standard : ANSI C63.4: 2009
ICES-003 Issue 5: 2012 Class B
Test Result : Complied
Performed Location : Quietek Corporation (Linkou Laboratory)
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Taiwan, R.O.C.
TEL:+866-2-8601-3788 / FAX:+886-2-8601-3789

This report is made under FCC Part 2.1075. No modifications were required during testing to bring this product into compliance.

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Approved By : Vincent Lin
(Director / Vincent Lin)

Laboratory Information

We, **Quietek Corporation**, are an independent EMC and safety consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted (audited or listed) by the following related bodies in compliance with ISO 17025, EN 45001 and specified testing scopes:

Taiwan R.O.C.	:	BSMI, NCC, TAF
Norway	:	DNV
USA	:	FCC
Japan	:	VCCI

The related certificate for our laboratories about the test site and management system can be downloaded from Quietek Corporation's Web Site : <http://www.quietek.com/english/about/certificates.aspx?bval=5>

The address and introduction of Quietek Corporation's laboratories can be founded in our Web site : http://www.quietek.com/index_en.aspx

If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

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1. General Information

1.1. EUT Description

Product Name	MOTOROLA SF520
Trade Name	Motorola
Model No.	MOTOROLA SF520

Note: This appendix report was based on Quietek report No.1540462R, only changed the motherboard.

1.2. Mode of Operation

Quietek has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Test Mode	
Emission	Mode 1: Charging Mode Mode 2: Play music with mobile phone Mode

1.3. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

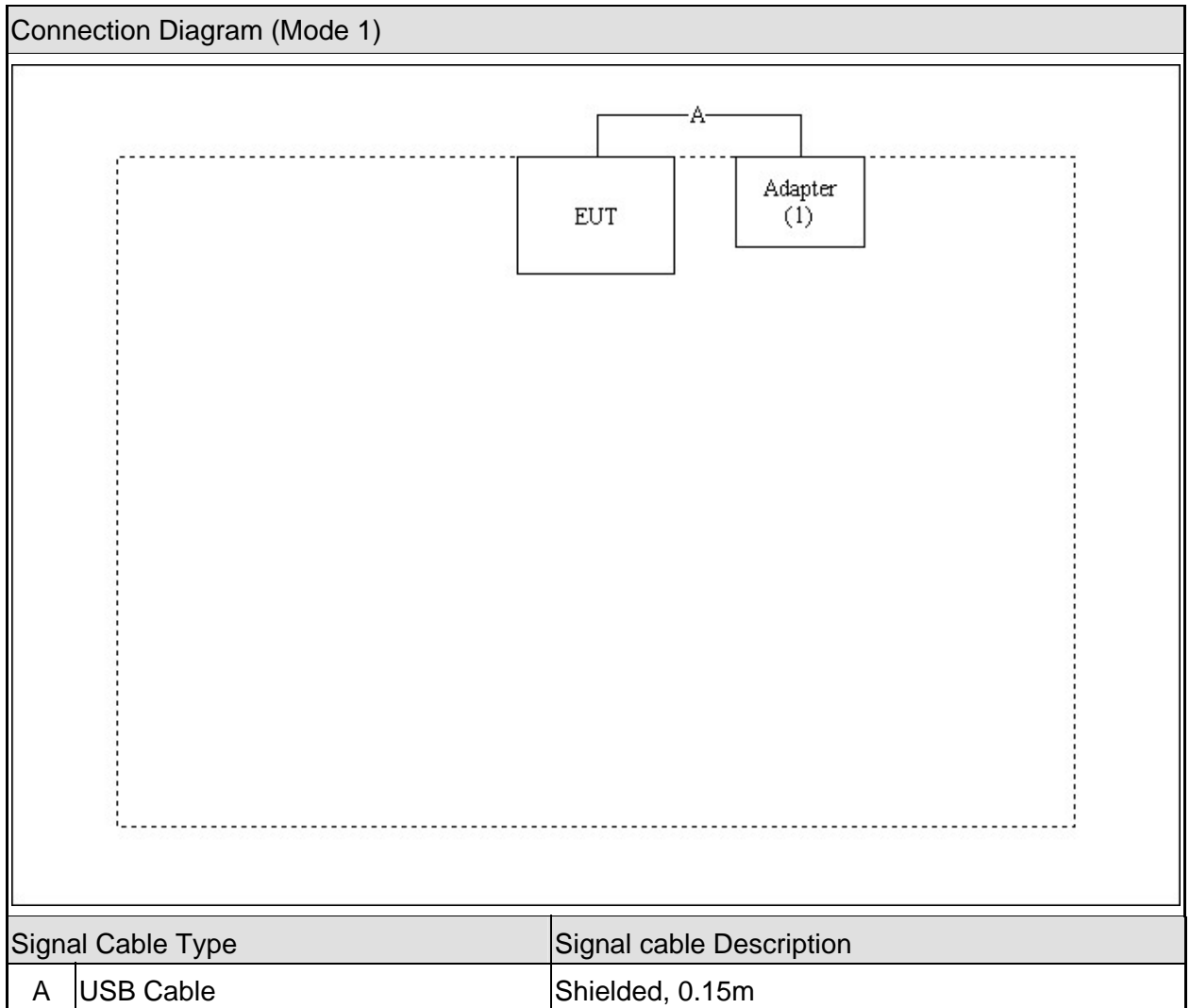
Mode 1:

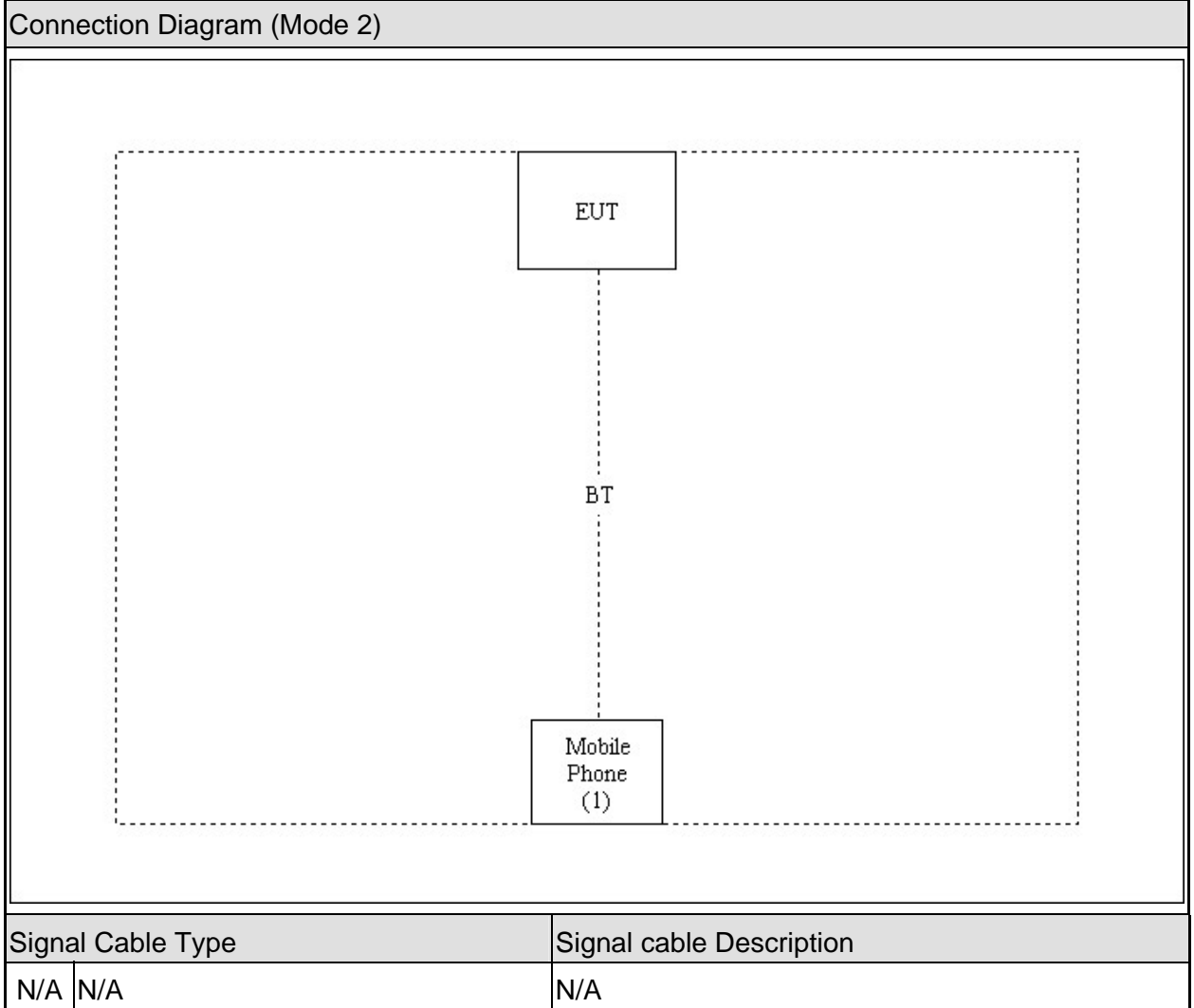
Product	Manufacturer	Model No.	Serial No.	Power Cord	FCC Approved
1 Adapter	Motorola	SPN5788A	N/A	N/A	FCC DoC

Mode 2:

Product	Manufacturer	Model No.	Serial No.	Power Cord	FCC Approved
1 Mobile Phone	XIAOMI	XIAOMI 2A	N/A	Power by Battery	FCC ID

1.4. Configuration of Tested System





1.5. EUT Exercise Software

Mode 1:

1	Setup the EUT and simulators as shown on above.
2	Turn on the power of all equipments.
3	Confirm the EUT work normally
4	Start test.

Mode 2:

1	Setup the EUT and simulators as shown on above.
2	Turn on the power of all equipments.
3	EUT communicates with mobile phone through Bluetooth.
4	Play music stored in mobile phone.
5	Confirm the EUT work normally
6	Start test.

2. Technical Test

2.1. Summary of Test Result

- No deviations from the test standards
 Deviations from the test standards as below description:

Emission			
Performed Item	Normative References	Test Performed	Deviation
Conducted Emission	FCC CFR Title 47 Part 15 Subpart B: 2014 Class B, ANSI C63.4: 2009 ICES-003 Issue 5: 2012 Class B	Yes	No
Radiated Emission	FCC CFR Title 47 Part 15 Subpart B: 2014 Class B, ANSI C63.4: 2009 ICES-003 Issue 5: 2012 Class B	Yes	No

2.2. List of Test Equipment

Conducted Emission / SR8

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
EMI Test Receiver	R&S	ESCS 30	100369	2014/09/22
LISN	R&S	ESH3-Z5	836679/017	2015/01/06
LISN	R&S	ENV216	100097	2015/01/06
Coaxial Cable	QTK(Arnist)	RG 400	LC018-RG	2014/06/25

Radiated Emission / CB7

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
EMI Test Receiver	R&S	ESU	100433	2014/07/31
Bilog Antenna	Schaffner Chase	CBL6112B	2905	2014/06/13
Pre-Amplifier	COM-POWER	PAM-118	443019	2014/07/09
CB7 VSWR	QTK	N/A	N/A	2014/07/05

Radiated Emission / AC5

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date
EMI Receiver	Agilent	N9038A	MY51210196	2014/08/07
Preamplifier	Miteq	NSP1800-25	1364185	2015/05/03
DRG Horn	ETS-Lindgren	3117	00167055	2014/07/16
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2015/02/28

2.3. Measurement Uncertainty

Conducted Emission

The measurement uncertainty is evaluated as ± 2.26 dB.

Radiated Emission

The measurement uncertainty is evaluated as ± 3.19 dB.

2.4. Test Environment

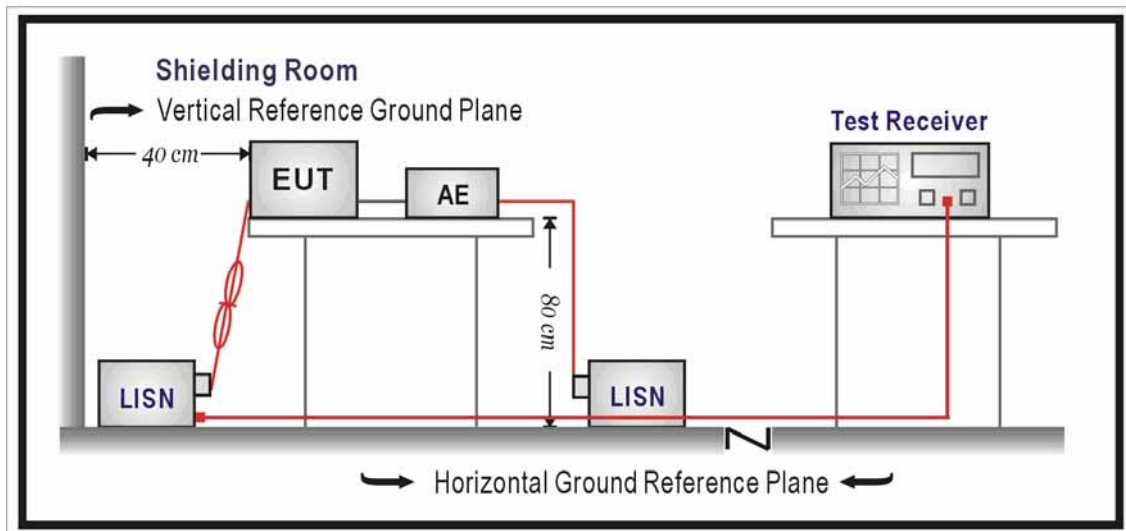
Performed Item	Items	Required	Actual
Conducted Emission	Temperature (°C)	15-35	24
	Humidity (%RH)	25-75	46
	Barometric pressure (mbar)	860-1060	950-1000
Radiated Emission	Temperature (°C)	15-35	22
	Humidity (%RH)	25-75	48
	Barometric pressure (mbar)	860-1060	950-1000

3. Conducted Emission

3.1. Test Specification

According to Standard: FCC Part 15 Subpart B, ANSI C63.4 and ICES-003

3.2. Test Setup



3.3. Limit

Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 - 46
0.50-5.0	56	46
5.0 - 30	60	50

Remarks: In the above table, the tighter limit applies at the band edges.

3.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination.

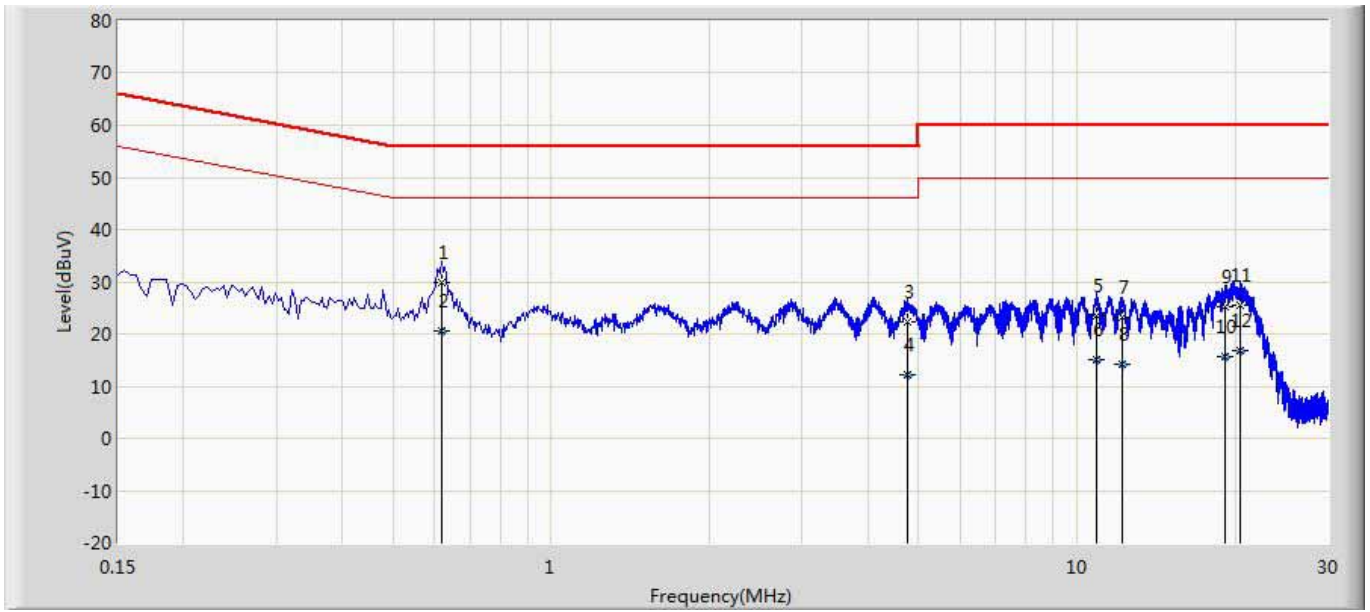
(Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed on conducted measurement.

Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

3.5. Test Result

Site: SR8	Time: 2015/05/30
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216-L1	Polarity: Line
EUT: Motorola SF520	Power: AC 120V/60Hz
Note: Mode 1: Charging Mode	

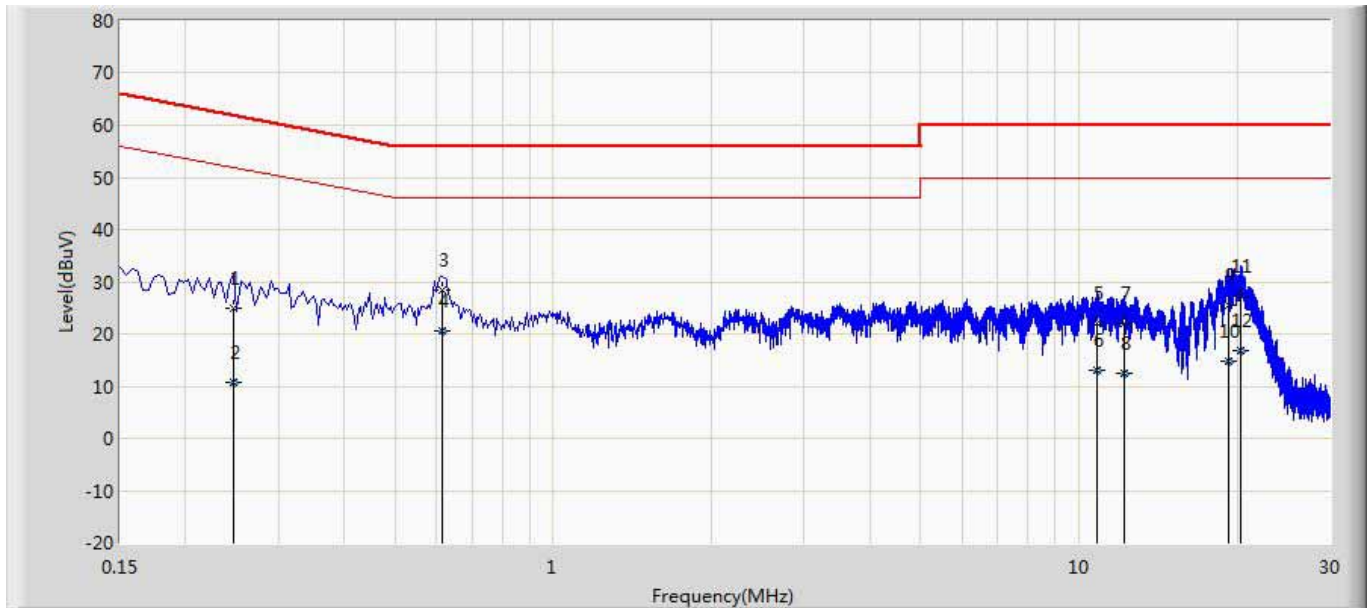


No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1		0.618	29.725	19.905	-26.275	56.000	9.620	0.200	0.000	QP
2	*	0.618	20.448	10.628	-25.552	46.000	9.620	0.200	0.000	AV
3		4.762	22.329	12.459	-33.671	56.000	9.670	0.200	0.000	QP
4		4.762	12.218	2.348	-33.782	46.000	9.670	0.200	0.000	AV
5		10.866	23.598	13.658	-36.402	60.000	9.740	0.200	0.000	QP
6		10.866	15.094	5.154	-34.906	50.000	9.740	0.200	0.000	AV
7		12.202	23.139	13.083	-36.861	60.000	9.760	0.296	0.000	QP
8		12.202	14.154	4.098	-35.846	50.000	9.760	0.296	0.000	AV
9		19.142	25.119	14.969	-34.881	60.000	9.750	0.400	0.000	QP
10		19.142	15.560	5.410	-34.440	50.000	9.750	0.400	0.000	AV
11		20.446	25.630	15.520	-34.370	60.000	9.710	0.400	0.000	QP
12		20.446	16.886	6.776	-33.114	50.000	9.710	0.400	0.000	AV

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Site: SR8	Time: 2015/05/30
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216-N	Polarity: Neutral
EUT: Motorola SF520	Power: AC 120V/60Hz
Note: Mode 1: Charging Mode	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1		0.246	25.046	15.186	-36.845	61.891	9.660	0.200	0.000	QP
2		0.246	10.790	0.930	-41.101	51.891	9.660	0.200	0.000	AV
3		0.614	28.394	18.554	-27.606	56.000	9.640	0.200	0.000	QP
4	*	0.614	20.501	10.661	-25.499	46.000	9.640	0.200	0.000	AV
5		10.842	22.086	12.146	-37.914	60.000	9.740	0.200	0.000	QP
6		10.842	13.081	3.141	-36.919	50.000	9.740	0.200	0.000	AV
7		12.222	21.906	11.848	-38.094	60.000	9.760	0.298	0.000	QP
8		12.222	12.441	2.383	-37.559	50.000	9.760	0.298	0.000	AV
9		19.302	25.635	15.385	-34.365	60.000	9.850	0.400	0.000	QP
10		19.302	14.788	4.538	-35.212	50.000	9.850	0.400	0.000	AV
11		20.250	27.254	17.024	-32.746	60.000	9.830	0.400	0.000	QP
12		20.250	16.812	6.582	-33.188	50.000	9.830	0.400	0.000	AV

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

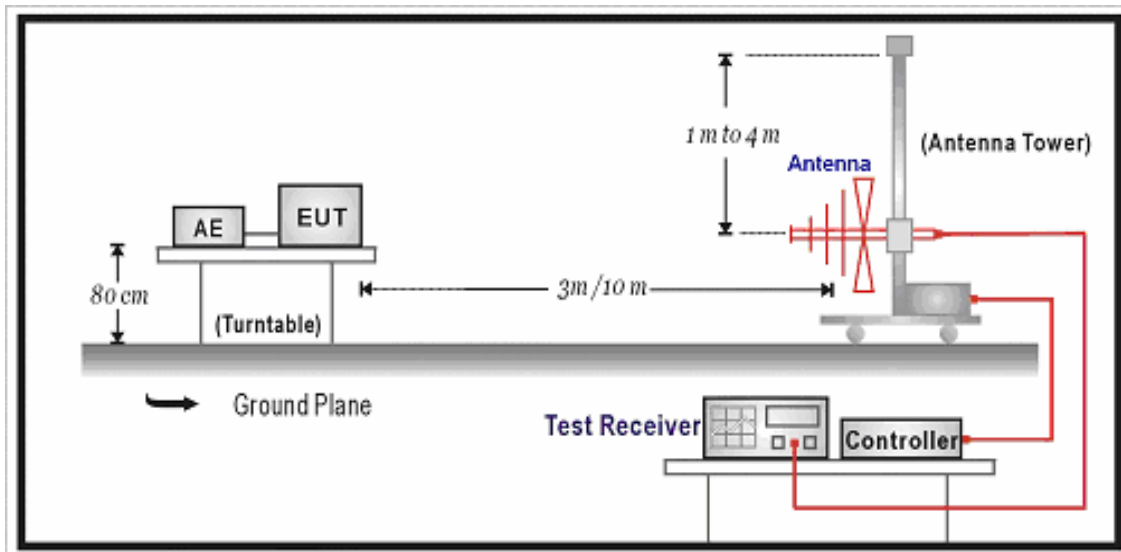
4. Radiated Emission

4.1. Test Specification

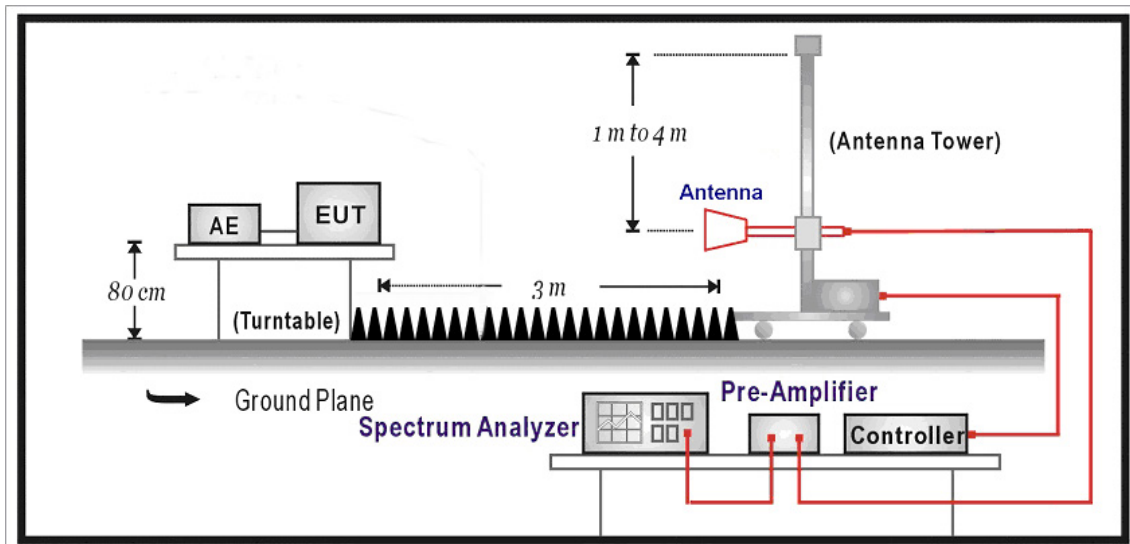
According to EMC Standard: FCC Part 15 Subpart B, ANSI C63.4 and ICES-003

4.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limit

Test shall not exceed the following value:

FCC Part 15 Subpart B Paragraph 15.109 Limits (dBuV/m)		
Frequency (MHz)	Distance (m)	dBuV/m
30-88	3	40
88-216	3	43.5
216-960	3	46
Above 960	3	54

Remark:

1. The tighter limit shall apply at the edge between two frequency bands.
2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
3. RF Voltage (dBuV/m) = 20 log RF Voltage (uV/m)

4.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground.

The turn table can rotate 360 degrees to determine the position of the maximum emission level and the antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated on radiated measurement.

For an unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the following table:

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

On any frequency or frequencies below or equal to 1000 MHz, the radiated limits shown are based on measuring equipment employing a quasi-peak detector function and above 1000 MHz, the radiated limits shown are based measuring equipment employing an average detector function.

When average radiated emission measurement are included emission measurement Above 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

For class A, the measurement distance between the EUT and antenna is 10 meters for under 1GHz and above 1GHz.

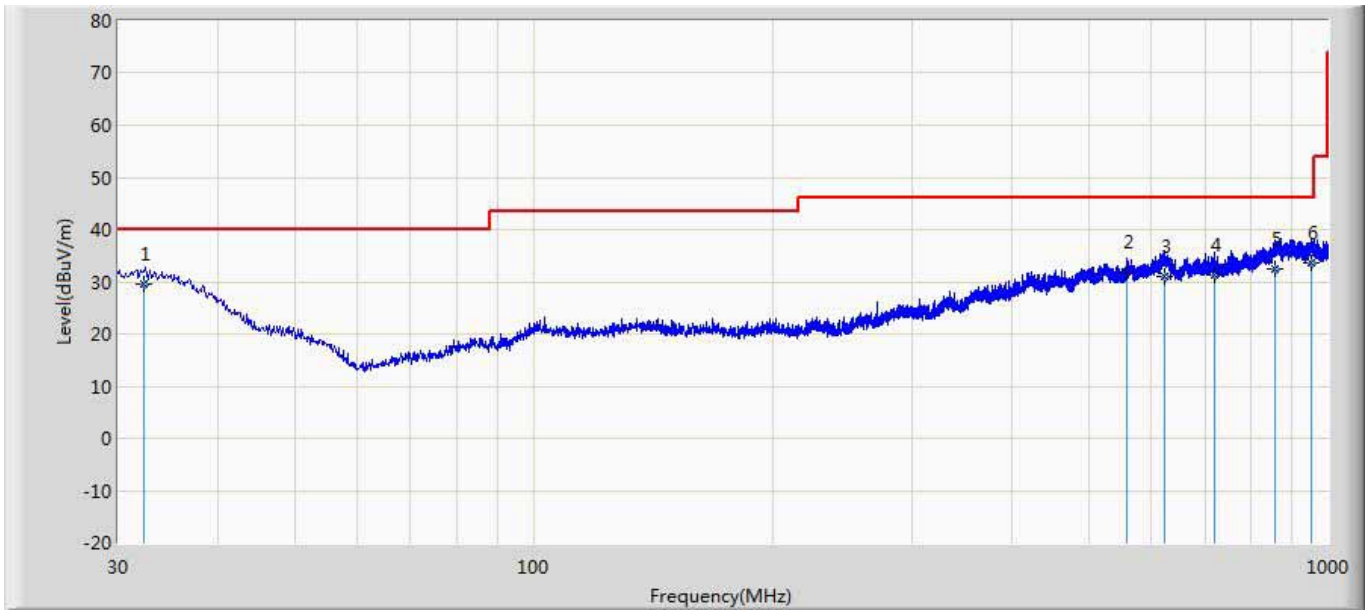
For class B, the measurement distance between the EUT and antenna is 3 meters.

The bandwidth below 1GHz setting on the field strength meter (R&S Test Receiver ESCS 30) is 120 kHz and above 1GHz is 1MHz.

The measurement is performed in the 667MHz processor.

4.5. Test Result

Site: CB7	Time: 2015/05/30
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: CB7_CBL6112_0726	Polarity: Horizontal
EUT: MOTOROLA SF520	Power: AC 120V/60Hz
Note: Mode 1: Charging Mode	

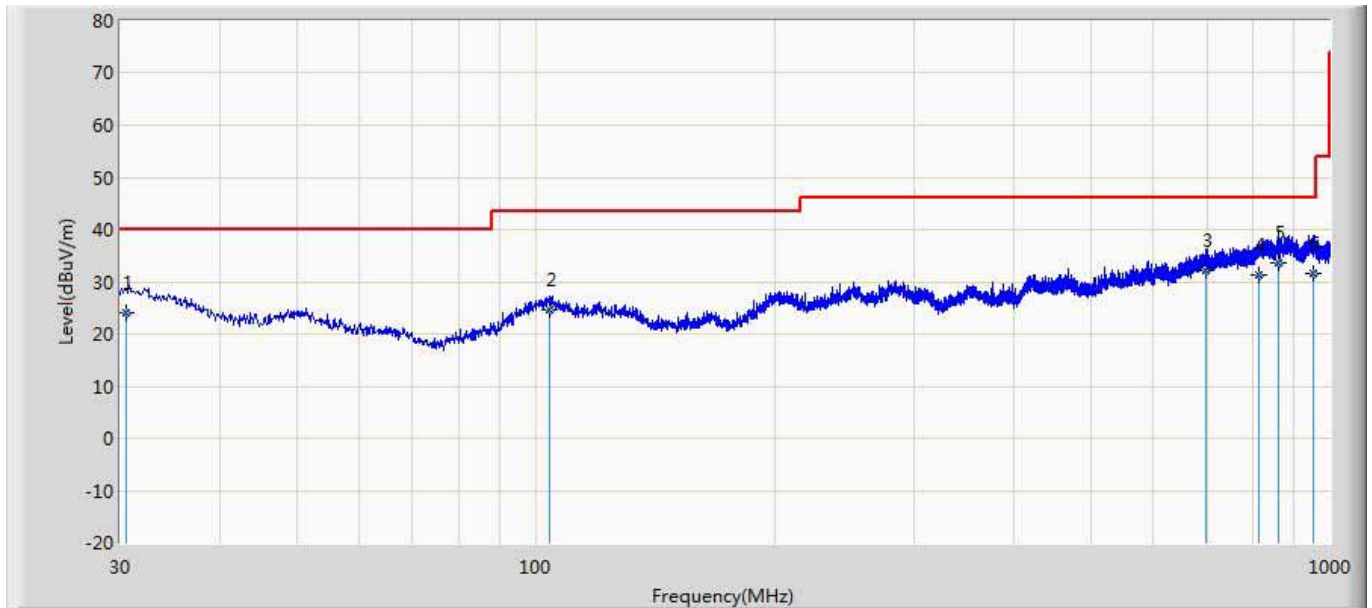


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1	*	32.326	29.675	34.724	-10.325	40.000	17.451	0.624	23.124	100	145	QP
2		558.525	31.790	33.000	-14.210	46.000	19.000	2.570	22.780	100	290	QP
3		623.326	30.966	31.779	-15.034	46.000	19.000	2.740	22.553	100	201	QP
4		718.526	31.182	31.556	-14.818	46.000	19.234	2.970	22.578	100	185	QP
5		858.153	32.500	31.431	-13.500	46.000	20.417	3.220	22.568	100	194	QP
6		952.325	33.654	31.627	-12.346	46.000	20.919	3.409	22.300	100	27	QP

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Site: CB7	Time: 2015/05/30
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: CB7_CBL6112_0726	Polarity: Vertical
EUT: MOTOROLA SF520	Power: AC 120V/60Hz
Note: Mode 1: Charging Mode	

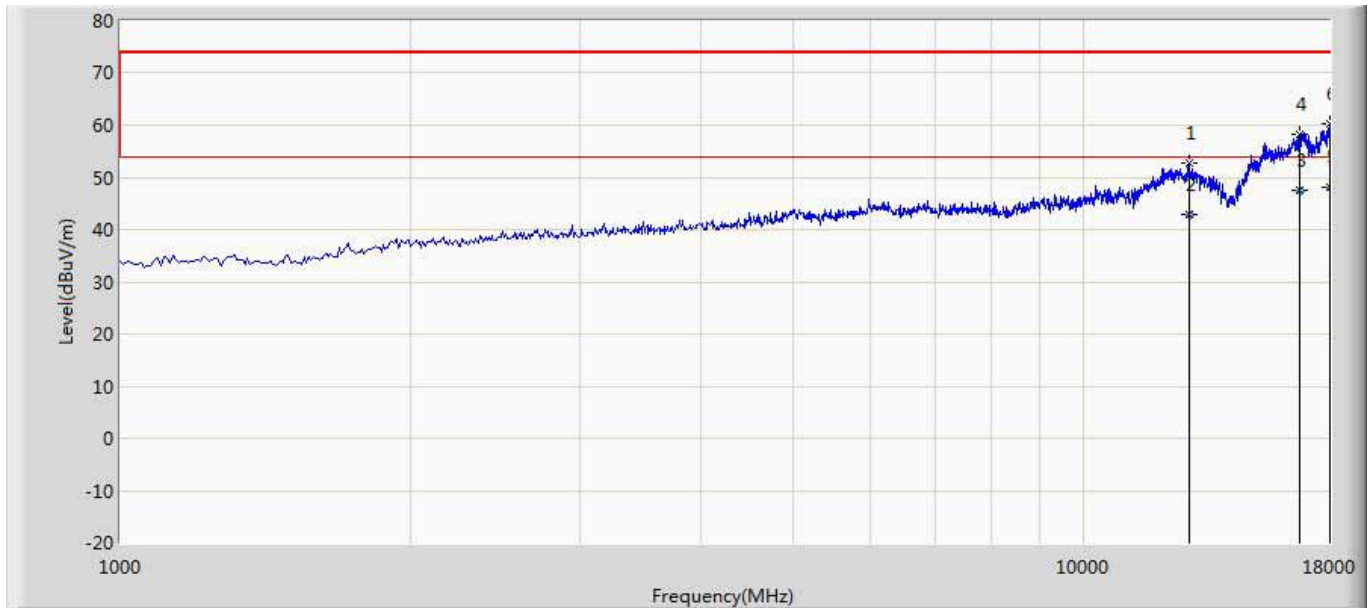


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		30.562	23.971	27.983	-16.029	40.000	18.474	0.606	23.092	200	56	QP
2		104.325	24.695	35.216	-18.805	43.500	11.533	1.106	23.160	100	128	QP
3		698.235	32.134	32.821	-13.866	46.000	18.903	2.930	22.520	100	46	QP
4		812.326	31.376	30.497	-14.624	46.000	20.099	3.140	22.360	200	199	QP
5	*	861.325	33.481	32.408	-12.519	46.000	20.423	3.230	22.580	100	158	QP
6		954.252	31.674	29.630	-14.326	46.000	20.934	3.410	22.300	200	69	QP

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Site: AC5	Time: 2015/05/30
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Motorola SF520	Power: AC 120V/60Hz
Note: Mode 1: Charging Mode	

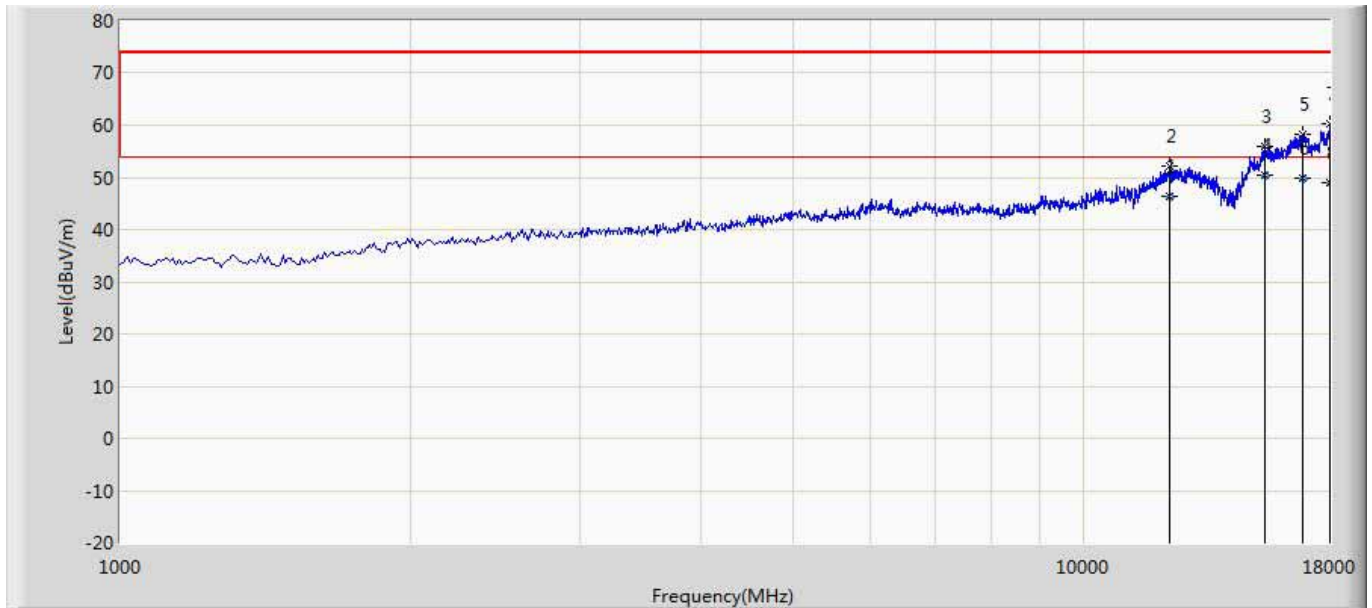


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		12840.500	52.789	30.140	-21.211	74.000	39.528	14.947	31.825	100	21	PK
2		12842.524	42.872	20.200	-11.128	54.000	39.526	14.946	31.800	100	21	AV
3		16715.526	47.500	22.251	-6.500	54.000	41.372	17.566	33.689	100	133	AV
4		16716.500	58.142	32.882	-15.858	74.000	41.373	17.567	33.680	100	133	PK
5	*	17999.524	48.086	17.520	-5.914	54.000	41.899	21.668	33.001	100	216	AV
6		18000.000	60.360	29.789	-13.640	74.000	41.900	21.681	33.010	100	216	PK

Note:

- " * ", means this data is the worst emission level.
- Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Site: AC5	Time: 2015/05/30
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Motorola SF520	Power: AC 120V/60Hz
Note: Mode 1: Charging Mode	

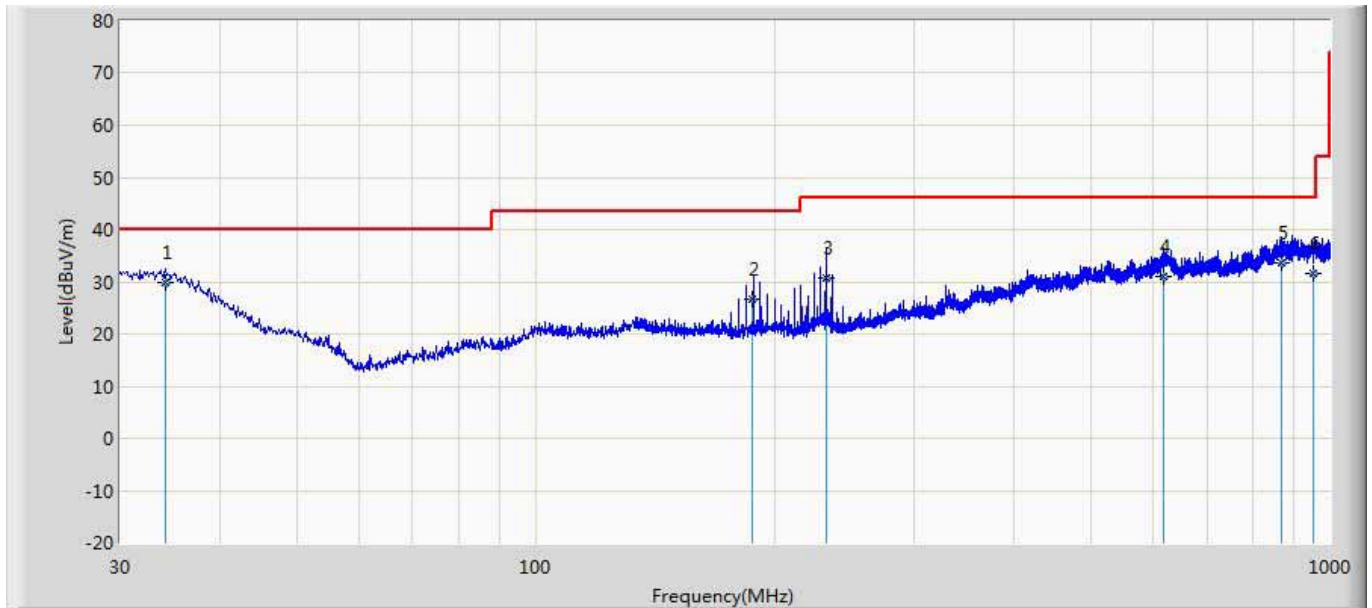


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		12285.635	46.234	24.215	-7.766	54.000	39.414	14.444	31.839	100	187	AV
2		12288.000	52.093	30.098	-21.907	74.000	39.415	14.450	31.870	100	187	PK
3		15390.500	55.908	31.680	-18.092	74.000	40.056	17.761	33.590	100	222	PK
4	*	15392.524	50.426	26.140	-3.574	54.000	40.057	17.764	33.535	100	222	AV
5		16861.000	58.401	32.961	-15.599	74.000	41.444	17.636	33.640	100	124	PK
6		16862.526	49.919	24.526	-4.081	54.000	41.445	17.637	33.688	100	124	AV
7		17991.500	60.172	29.689	-13.828	74.000	41.886	21.452	32.855	100	276	PK
8		17992.526	49.018	18.524	-4.982	54.000	41.888	21.479	32.874	100	276	AV

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Site: CB7	Time: 2015/05/30
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: CB7_CBL6112_0726	Polarity: Horizontal
EUT: MOTOROLA SF520	Power: DC 3.7V
Note: Mode 2: Play music with mobile phone Mode	

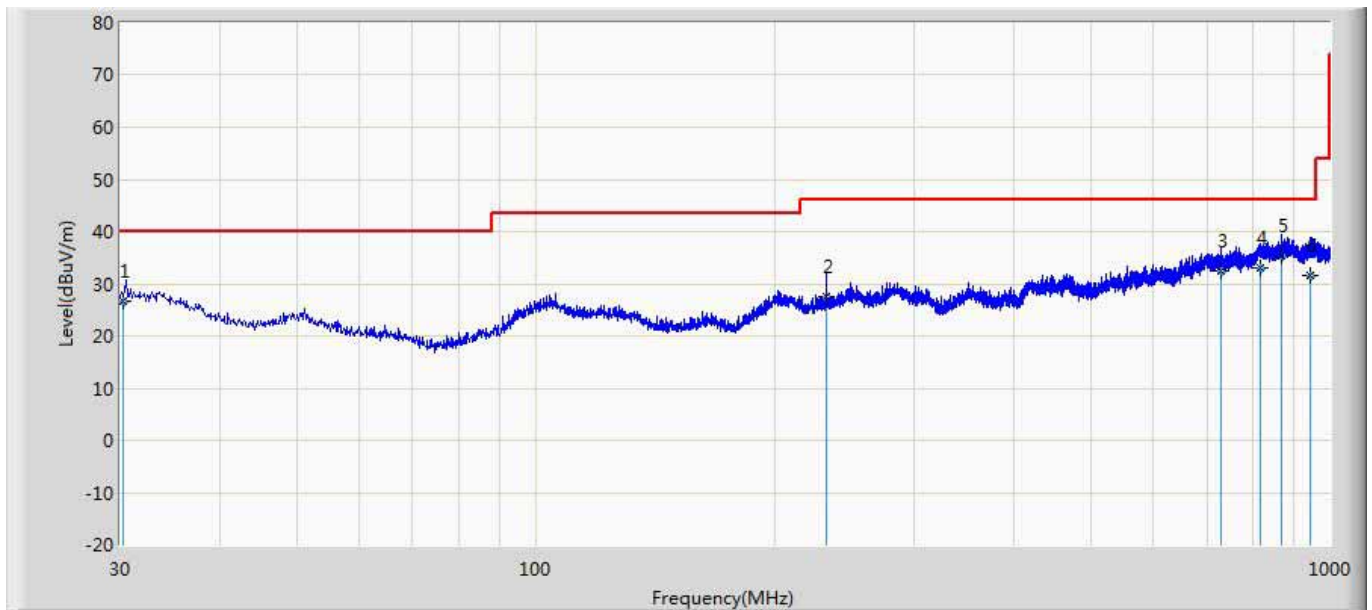


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1	*	34.236	29.995	36.175	-10.005	40.000	16.343	0.634	23.157	100	222	QP
2		187.525	26.740	39.161	-16.760	43.500	9.225	1.484	23.130	100	215	QP
3		232.125	30.598	41.677	-15.402	46.000	10.555	1.640	23.274	100	131	QP
4		616.524	30.956	31.869	-15.044	46.000	19.000	2.720	22.633	100	284	QP
5		869.524	33.490	32.431	-12.510	46.000	20.439	3.245	22.625	100	198	QP
6		952.353	31.656	29.628	-14.344	46.000	20.919	3.409	22.300	100	189	QP

Note:

- " * ", means this data is the worst emission level.
- Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Site: CB7	Time: 2015/05/30
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: CB7_CBL6112_0726	Polarity: Vertical
EUT: MOTOROLA SF520	Power: DC 3.7V
Note: Mode 2: Play music with mobile phone Mode	

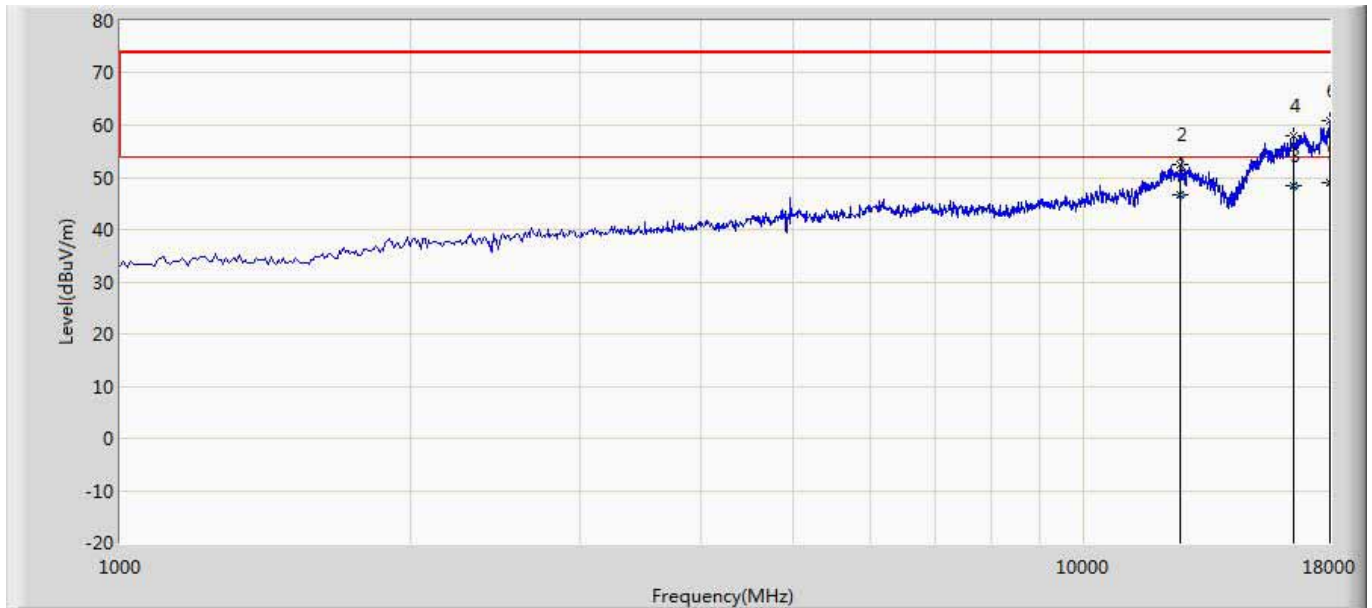


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		30.235	26.592	30.411	-13.408	40.000	18.664	0.602	23.085	100	145	QP
2		232.125	27.487	38.566	-18.513	46.000	10.555	1.640	23.274	100	137	QP
3		730.326	32.325	32.489	-13.675	46.000	19.446	2.990	22.600	200	360	QP
4		816.235	33.142	32.242	-12.858	46.000	20.130	3.146	22.376	100	88	QP
5	*	867.252	35.485	34.422	-10.515	46.000	20.434	3.240	22.611	100	162	QP
6		945.235	31.656	29.769	-14.344	46.000	20.862	3.390	22.365	100	136	QP

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Site: AC5	Time: 2015/05/30
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Motorola SF520	Power: DC 3.7V
Note: Mode 2: Play music with mobile phone Mode	

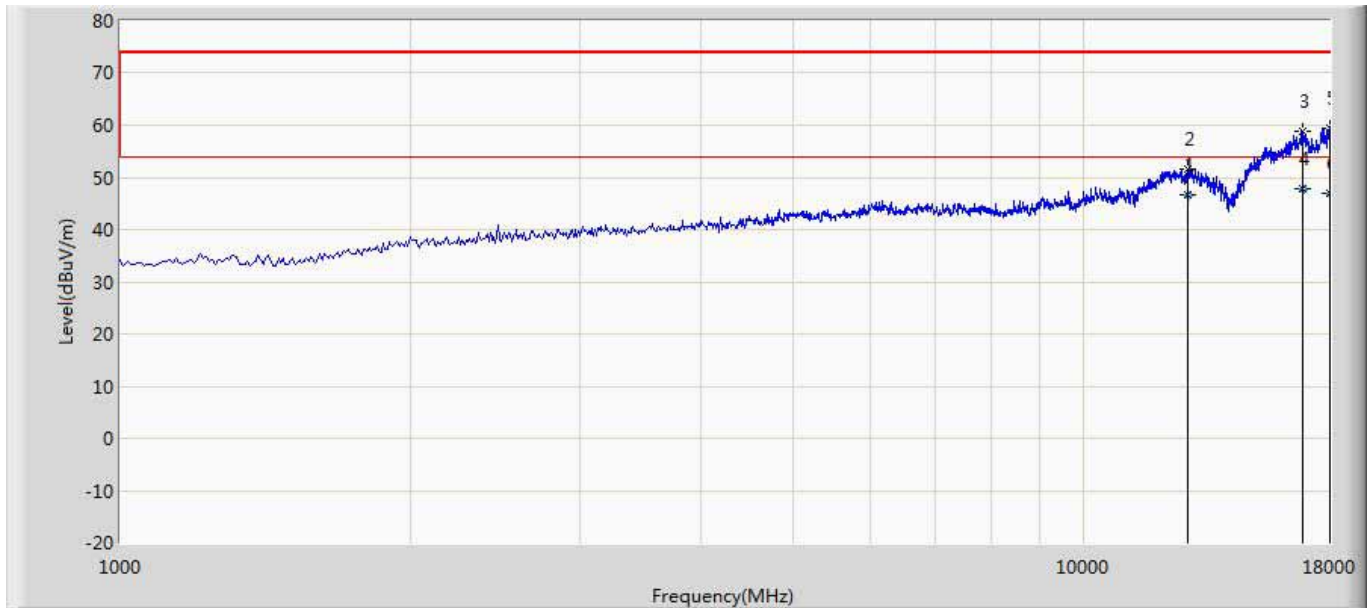


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		12576.526	46.522	23.251	-7.478	54.000	39.531	14.807	31.066	100	25	AV
2		12577.000	52.412	29.113	-21.588	74.000	39.531	14.808	31.040	100	25	PK
3		16493.526	48.529	23.651	-5.471	54.000	41.188	17.382	33.692	200	360	AV
4		16495.500	58.106	33.170	-15.894	74.000	41.191	17.380	33.635	200	360	PK
5	*	17999.524	49.086	18.520	-4.914	54.000	41.899	21.668	33.001	100	149	AV
6		18000.000	60.916	30.345	-13.084	74.000	41.900	21.681	33.010	100	149	PK

Note:

- " * ", means this data is the worst emission level.
- Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Site: AC5	Time: 2015/05/30
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Motorola SF520	Power: DC 3.7V
Note: Mode 2: Play music with mobile phone Mode	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		12805.526	46.567	23.261	-7.433	54.000	39.556	14.938	31.187	100	149	AV
2		12806.500	51.589	28.296	-22.411	74.000	39.555	14.938	31.200	100	149	PK
3		16852.500	58.951	33.727	-15.049	74.000	41.441	17.633	33.850	100	141	PK
4	*	16853.215	47.762	22.520	-6.238	54.000	41.441	17.633	33.832	100	141	AV
5		17991.500	59.508	29.025	-14.492	74.000	41.886	21.452	32.855	100	329	PK
6		17993.526	47.028	16.524	-6.972	54.000	41.890	21.506	32.892	100	329	AV

Note:

- " * ", means this data is the worst emission level.
- Measurement Level = Reading Level + Factor(Probe+Cable-Amp).