



FCC RF Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : 10566
FCC ID : IHDT56WG1
STANDARD : FCC 47 CFR Part 2, 22(H), 24(E)
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Mar. 22, 2017 and testing was completed on May 05, 2017. We, Sporton International (KunShan) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA / EIA-603-D-2010 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (KunShan) INC., the test report shall not be reproduced except in full.

James Huang

Prepared by: James Huang / Manager

Jones Tsai
SPORTON LAB.

Approved by: Jones Tsai / Manager



Sporton International (KunShan) INC.
No.3-2, Pingxiang Road, Kunshan Development Zone, Jiangsu, China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG710416-02	Rev. 01	Initial issue of report	Jun. 21, 2017



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§22.913(a)(2)	Effective Radiated Power	< 7 Watts	PASS	-
	§24.232(c)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
4.4	§2.1053 §22.917(a) §24.238(a)	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	Under limit 26.97 dB at 2508.000 MHz



1 General Description

1.1 Applicant

Motorola Mobility LLC

222 W, Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC

222 W, Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	10566
FCC ID	IHDT56WG1
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/ HSPA+(16QAM uplink is not supported)/ WLAN 2.4GHz 802.11b/g/n HT20 Bluetooth v3.0 + EDR/Bluetooth v4.0/v4.1/v4.2 LE
HW Version	98737_1_12
SW Version	Blur-Version.24.10.9.Watson.europe.en.EN
IMEI Code	Radiation : 353314080084971/353314080084989 ERP/EIRP: N/A
EUT Stage	Identical Prototype

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. There are two types of EUT sample 1 and sample 2, the differences between two samples are only for SIM slot, sample 1 is dual SIM slot, sample 2 is single SIM slot. According to the difference, we choose sample 1 to perform RF test.
3. This is a variant report for 10566. The product equality declaration can be a reference of Appendix D. According to the differences, we evaluate worse mode of Radiation spurious emission and ERP/EIRP from original report, all other test cases were quoted on original report (Sporton Report Number FG710416).

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	GSM/GPRS/EDGE: 850: 824.2 MHz ~ 848.8 MHz 1900: 1850.2 MHz ~ 1909.8MHz WCDMA: Band V: 826.4 MHz ~ 846.6 MHz Band II: 1852.4 MHz ~ 1907.6 MHz
Rx Frequency	GSM/GPRS/EDGE: 850: 869.2 MHz ~ 893.8 MHz 1900: 1930.2 MHz ~ 1989.8 MHz WCDMA: Band V: 871.4 MHz ~ 891.6 MHz Band II: 1932.4 MHz ~ 1987.6 MHz
Antenna Type	PIFA Antenna
Antenna Gain	Cellular Band: -1.50 dBi PCS Band: -1.10 dBi
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE: GMSK / 8PSK WCDMA: BPSK (Uplink) HSDPA : QPSK (Uplink) HSUPA : QPSK (Uplink) HSPA+ : 16QAM (uplink is not supported)

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Specification of Accessory

Specification of Accessory				
AC Adapter	Brand Name	Motorola (Chenyang)	Model Name	C-P56 SPN5987A
	Power Rating	I/P: 100-240 Vac, 130mA, O/P: 5 Vdc, 1000mA		
Battery	Brand Name	Motorola (SCUD)	Model Name	HC40
	Power Rating	3.8Vdc, 2245/2350mAh (Min/Typ)	Type	Li-ion
Earphone	Brand Name	Motorola (Juwei)	Model Name	JWEP0987-W09R
	Signal Line Type	1.22 meter, non-shielded cable, without ferrite core		
USB Cable	Brand Name	Motorola (Liqi)	Model Name	LQ-025280
	Signal Line Type	1.04 meter, shielded cable, without ferrite core		

1.7 Maximum ERP/EIRP Power

According to our verification, the conducted power is the same as original report, and antenna gain does not change declared by manufacturer. So the ERP/EIRP result is not affected by calculate.

1.8 Testing Location

Test Site	Sporton International (KunShan) INC.	
Test Site Location	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. China	
	TEL: +86-0512-5790-0158	
	FAX: +86-0512-5790-0958	
Test Site No.	Sporton Site No.	FCC Registration No.
	03CH03-KS	306251

Note: The test site complies with ANSI C63.4 2014 requirement.



1.9 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 2, 22(H), 24(E)
- ANSI / TIA / EIA-603-D-2010
- FCC KDB 971168 D01 Power Meas. License Digital Systems v02r02
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v02r02 with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Radiated emissions were investigated as following frequency range:

1. 30 MHz to 10th harmonic for GSM850 and WCDMA Band V.
2. 30 MHz to 10th harmonic for GSM1900 and WCDMA Band II.

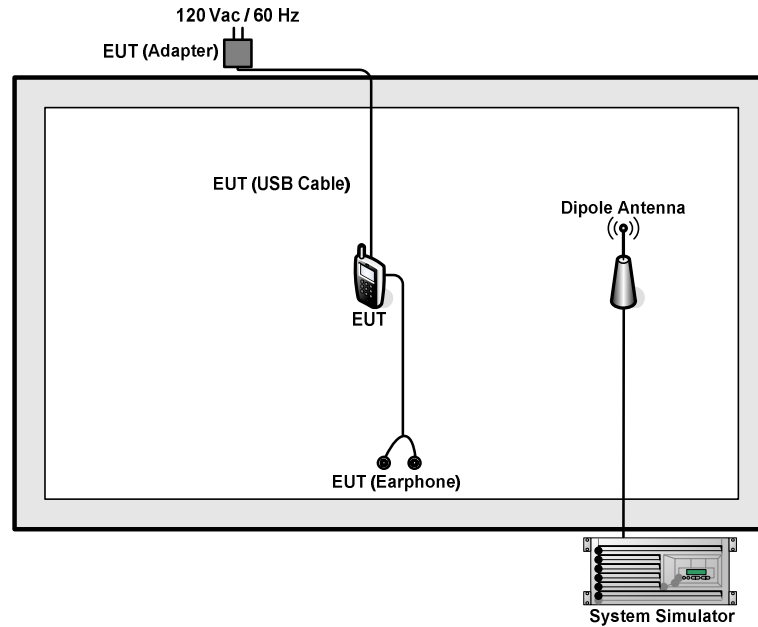
All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

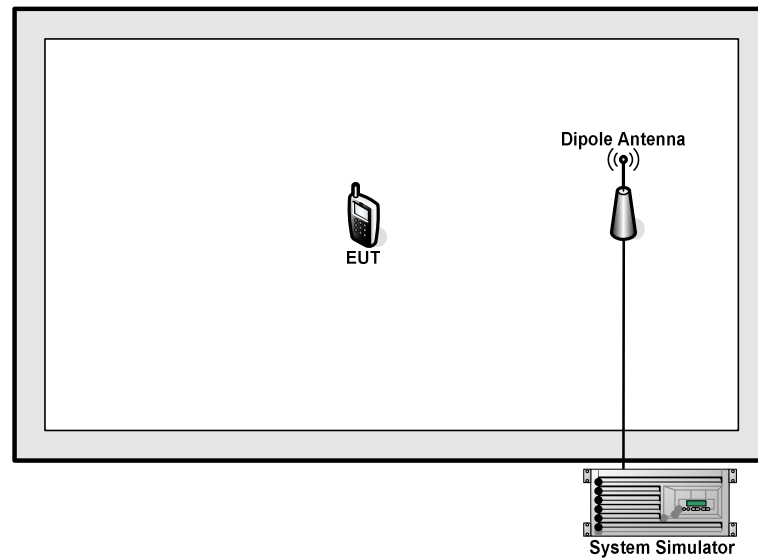
Test Modes	
Band	Radiated TCs
GSM 850	■ GSM 850 Link ■ EDGE 850 Link
GSM 1900	■ GSM 1900 Link ■ EDGE 1900 Link

2.2 Connection Diagram of Test System

For Part 22H



For Part 24E





2.3 Support Unit used in test configuration

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m



3 Conducted Test Result

3.1 Conducted Output Power and ERP/EIRP

3.1.1 Description of the Conducted Output Power and ERP/EIRP

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The ERP of mobile transmitters must not exceed 7 Watts for GSM850 and WCDMA Band V.

The EIRP of mobile transmitters must not exceed 2 Watts for GSM1900 and WCDMA Band II.

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.1.2 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure the maximum burst average power for GSM and maximum average power for other modulation signal.

3.1.3 Test Results

According to our verification, the conducted power is the same as original report, and antenna gain does not change declared by manufacturer. So the ERP/EIRP result is not affected. Please refer to Appendix A.

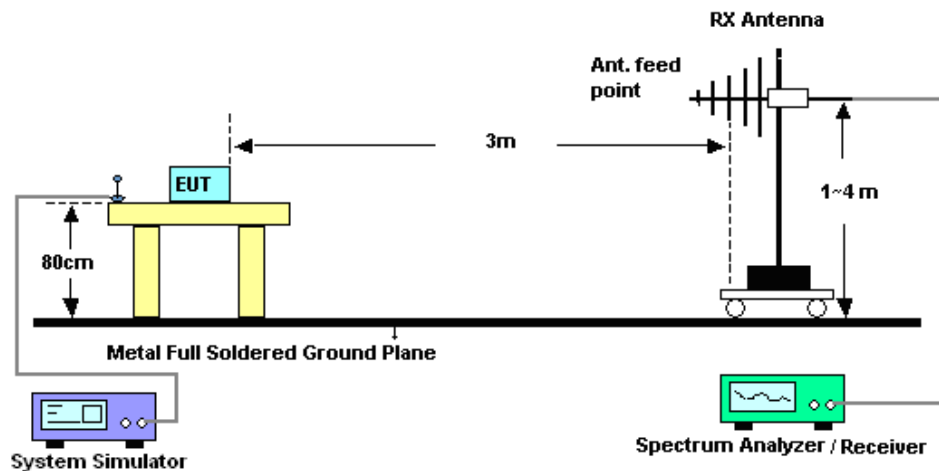
4 Radiated Test Items

4.1 Measuring Instruments

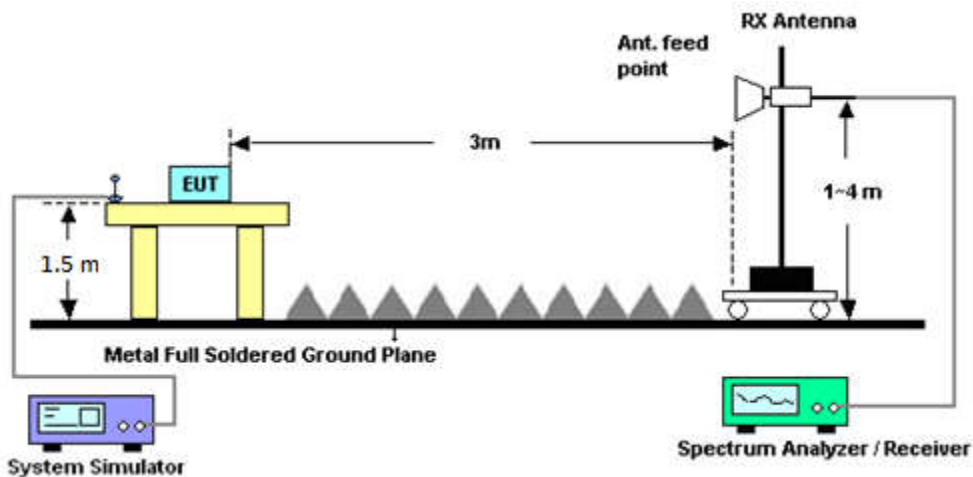
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 For radiated test from 30MHz to 1GHz



4.2.2 For radiated test above 1GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

4.4 Field Strength of Spurious Radiation Measurement

4.4.1 Description of Field Strength of Spurious Radiated Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.4.2 Test Procedures

1. The testing follows FCC KDB 971168 D01 v02r02 Section 5.8 and ANSI / TIA-603-D-2010 Section 2.2.12.
2. The EUT was placed on a rotatable wooden table 0.8 meters for frequency below 1GHz and 1.5 meter for frequency above 1GHz above the ground.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
9. Taking the record of output power at antenna port.
10. Repeat step 7 to step 8 for another polarization.
11. $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
12. $ERP \text{ (dBm)} = EIRP - 2.15$
13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
14. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)] \text{ (dB)}$
 $= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$
 $= -13\text{dBm}.$



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz~44GHz	Apr. 22, 2016	Apr. 05, 2017	Apr. 21, 2017	Radiation (03CH03-KS)
Bilog Antenna	TeseQ	CBL6112D	35406	25MHz~2GHz	Apr. 16, 2016	Apr. 05, 2017	Apr. 15, 2017	Radiation (03CH03-KS)
Horn Antenna	Schwarzbeck	BBHA9120 D	9120D-1356	1GHz~18GHz	Apr. 16, 2016	Apr. 05, 2017	Apr. 15, 2017	Radiation (03CH03-KS)
SHF-EHF Horn	com-power	AH-840	101070	18GHz ~40GHz	Oct. 19, 2016	Apr. 05, 2017	Oct. 18, 2017	Radiation (03CH03-KS)
Amplifier	SONOMA	310N	187289	9kHz~1GHz	Aug. 09, 2016	Apr. 05, 2017	Aug. 08, 2017	Radiation (03CH03-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-	2025788	1Ghz-18Ghz	Apr. 18, 2016	Apr. 05, 2017	Apr. 17, 2017	Radiation (03CH03-KS)
Amplifier	MITEQ	TTA1840-35 -HG	1887435	18~40GHz	Oct. 13, 2016	Apr. 05, 2017	Oct. 12, 2017	Radiation (03CH03-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Apr. 05, 2017	NCR	Radiation (03CH03-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Apr. 05, 2017	NCR	Radiation (03CH03-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Apr. 05, 2017	NCR	Radiation (03CH03-KS)

NCR: No Calibration Required

6 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	4.6dB
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Uncertainty of Radiated Emission Measurement (1GHz ~ 18GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	4.5dB
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Uncertainty of Radiated Emission Measurement (18GHz ~ 40GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	4.7dB
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Appendix A. Test Results of Conducted Test

ERP/EIRP

GSM850 ($G_T - L_C = -1.50$ dB)			
Channel	128	189	251
	(Low)	(Mid)	(High)
Frequency	824.2	836.4	848.8
(MHz)			
Conducted Power (dBm)	32.91	32.72	32.59
Conducted Power (Watts)	1.9543	1.8707	1.8155
ERP(dBm)	29.26	29.07	28.94
ERP(Watts)	0.8433	0.8072	0.7834

EDGE850 ($G_T - L_C = -1.50$ dB)			
Channel	128	189	251
	(Low)	(Mid)	(High)
Frequency	824.2	836.4	848.8
(MHz)			
Conducted Power (dBm)	27.13	27.09	26.86
Conducted Power (Watts)	0.5164	0.5117	0.4853
ERP(dBm)	23.48	23.44	23.21
ERP(Watts)	0.2228	0.2208	0.2094



GSM1900 ($G_T - L_C = -1.10$ dB)			
Channel	512	661	810
	(Low)	(Mid)	(High)
Frequency	1850.2	1880	1909.8
(MHz)			
Conducted Power (dBm)	29.99	29.79	29.98
Conducted Power (Watts)	0.9977	0.9528	0.9954
EIRP(dBm)	28.89	28.69	28.88
EIRP(Watts)	0.7745	0.7396	0.7727

EDGE1900 ($G_T - L_C = -1.10$ dB)			
Channel	512	661	810
	(Low)	(Mid)	(High)
Frequency	1850.2	1880	1909.8
(MHz)			
Conducted Power (dBm)	26.15	26.00	25.72
Conducted Power (Watts)	0.4121	0.3981	0.3733
EIRP(dBm)	25.05	24.90	24.62
EIRP(Watts)	0.3199	0.3090	0.2897



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

GSM850 (GSM)									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672	-58.71	-13	-45.71	-57.34	-60.57	1.19	5.20	H
	2508	-39.97	-13	-26.97	-46.29	-42.19	1.53	5.90	H
	3345	-67.71	-13	-54.71	-71.66	-70.50	1.76	6.70	H
	1672	-65.61	-13	-52.61	-63.57	-67.47	1.19	5.20	V
	2508	-53.57	-13	-40.57	-55.68	-55.79	1.53	5.90	V
	3345	-67.81	-13	-54.81	-71.13	-70.60	1.76	6.70	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

GSM850 (EDGE Class 8)									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672	-59.37	-13	-46.37	-58.00	-61.23	1.19	5.20	H
	2508	-46.34	-13	-33.34	-51.62	-48.56	1.53	5.90	H
	3345	-66.67	-13	-53.67	-70.62	-69.46	1.76	6.70	H
	1672	-66.24	-13	-53.24	-64.2	-68.10	1.19	5.20	V
	2508	-55.12	-13	-42.12	-57.1	-57.34	1.53	5.90	V
	3345	-69.05	-13	-56.05	-72.37	-71.84	1.76	6.70	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



GSM1900 (GSM)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3759	-64.99	-13	-51.99	-68.50	-69.98	1.88	6.87	H
	5640	-54.17	-13	-41.17	-62.36	-61.47	2.38	9.68	H
	7520	-60.75	-13	-47.75	-72.78	-69.82	2.74	11.81	H
	3759	-63.27	-13	-50.27	-67.06	-68.26	1.88	6.87	V
	5640	-58.08	-13	-45.08	-66.65	-65.38	2.38	9.68	V
	7520	-64.18	-13	-51.18	-74.89	-73.25	2.74	11.81	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

GSM1900 (EDGE Class 8)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3759	-63.10	-13	-50.10	-66.61	-68.09	1.88	6.87	H
	5640	-53.46	-13	-40.46	-61.65	-60.76	2.38	9.68	H
	7520	-61.87	-13	-48.87	-73.90	-70.94	2.74	11.81	H
	3759	-61.67	-13	-48.67	-65.46	-66.66	1.88	6.87	V
	5640	-57.73	-13	-44.73	-66.3	-65.03	2.38	9.68	V
	7520	-63.69	-13	-50.69	-74.4	-72.76	2.74	11.81	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



Appendix D. Product Equality Declaration

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA
Tel: 18150396560

Date: June 13, 2017

Product Equality Declaration

We, Motorola Mobility LLC, declare on our sole responsibility for the product of **XT1750** as below, the detailed differences between Original and Variant project are list in the table:

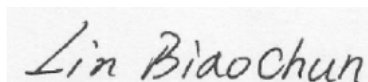
Object	Original	Variant
Motor	Hongzhifa: 1027;Flat;Work height 3.05;Lead 8 mm;At the bottom of the conductive glue, foam thickness of 0.20 mm	AWA: LC-B681
Front Camera	JSL: 2M,FF,C2590,6*6*4.42,ZIF	Broadsands: BLX2375W-S98737AA1-F
Back Camera	Syoptical: 5M,FF,HI-553,6.5*6.5*4.66,BTB	Broadsands: BLX5005W-S98737AA1-CB
LCD	TXD: 5 inches, 480*854, 10 star light, BTB	Holitech: HTB050W361
Touch panel	Holitech: 5 inches, G + F partition 2 MSG2256A, second generation 0.7 asahi	Biel: WTS5002B
USB	STARW: XJ-007075	Liqi: s98736,micro USB, Line 1 m long
Adapter	Acbel: C-P56, C-P57 C-P58 C-P59 C-P60 C-P45	Chenyang: C-P56, C-P57 -P58 C-P59 C-P60 C-P45
headphones	NEW LEADER: NLD-EM127T-97SF	Juwei: s98736,White double channel headphones, hands-free line length of 1.1 m
RCV	Xichun	Bosheng: MRFD1206A123008
speaker	Xichun	Haosheng: XHS151124SW35P33-10-RH
Memory	Samsung : KMFXN0012M-B214	Hynix : H9TQ64A8GTCCUR-KUM
Filtering duplex class	Murata: SAFFB1G56KB0F0A	TAIYO: F6QA1G581M2QZ
Filtering duplex class	Kyocera: SD18-0897R8UBQ1	MURATA: SAYEY897MCA0B0A
The acceleration sensor chip	KIONIX: KXTJ2-1009-HQ	BOSCH : BMA253
High frequency crystal class	TXC: OZ26000004	EPSON: X1E000291001400
Headphone jack	Jie huang: JAF00-05152-0151	Jie huang: PH12-6BS5F3MB
Booth connector	Qiande: TF-1502-001	Qiande: CAF11-08153-011401-CUS
Booth connector	Jie huang : CAF99-08153-010609	Jie huang: S34-0B08F15C
ZIF connector	Kyocera: 04 6298 706 200 883+;04 6298 706 220 883+	UJU : PF050-B06B-C09-A
ZIF connector	UJU: PF030-O25B-C10-H	HIROSE: FH26W-25S-0.3SHW(60)
Other connector	Sinopow: C-10020059	MURATA: MM8030-2610RK0
LED driver	Orientchip: OCP8132AVAD	SGMC: SGM3756YTDI6G/TR
LED driver	AWINIC: AW9961DNR	SILERGY: SYWT78DUC
Low noise put	Maxscend: MXDLN16G	AWINIC: AW5005DNR
barron	ACX: BD2012-20L0820T/LF	WALSIN: RFBLN2012090BM5T25
Filtering duplex class	Kyocera: SD18-1950R8UBQ1	ACX: DP1608-V1524CAT
Filtering duplex class	Walsin: RFDIP1608060TM7T62	MURATA: SAYEY1G95HA0F0A
The main antenna	WELLETRONICS COMMUNICATION TECHNOLOGY CO.,LTD: V2.0	WELLETRONICS COMMUNICATION TECHNOLOGY CO.,LTD: V2.2

Triad antenna	WELLETRONICS COMMUNICATION TECHNOLOGY CO.,LTD: V2.0	WELLETRONICS COMMUNICATION TECHNOLOGY CO.,LTD: Two samples V2.3 Version V2.2 agree with the original antenna in-kind, screen printing is unified with the main antenna, are upgraded to V2.2 (previous consulting certification, is reported to the printing does not need to change) V2.3 is to optimize the factory feedback antenna case become warped, antenna made small optimization, two for the report Mass production using V2.2 (antenna case become warped with other solutions, antenna do not change)
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Except above, the others are all the same.

Should you have any questions or comments regarding this matter, please have my best
attention.

Sincerely yours,



Contact Person: Lin BiaoChun

COMPANY: Motorola Mobility LLC.

Tel:86- 18150396560

E-Mail: Linbc@lenovo.com