

EVALUATION REPORT

Applicant Name:

Samsung Electronics Co., Ltd.

Address:

129, Samsung-ro, Maetan dong,
Yeongtong-gu, Suwon-si Gyeonggi-
do, 16677, Korea

Date of Evaluation:

July 10, 2017

Test Site/Location:

HCT CO., LTD., 74,Seoicheon-ro 578beon-gil,Majang-
myeo,Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA

FCC ID : A3LSMJ701MT

APPLICANT : Samsung Electronics Co., Ltd.

Test Data Re-Use Summary

Introduction

FCC ID: A3LSMJ701MT

Equipment Class(es): DXX, DTS, DSS, PCE

Rule Part(s): 2, 15, 22, 24, 27

Applicant's Statement: The applicant takes full responsibility that the test data referenced below represents compliance for this FCC ID. This is confirmed by the applicant (Samsung Electronics Co., Ltd.)

Differences

Brief Description: The Cellular parts, Bluetooth, WLAN, ANT+ hardware and software of this device are identical to the implementation in A3LSMJ701M. The Product Equality Declaration document includes detailed information about the changes between the devices. The data from that application has been verified through appropriate spot checks to demonstrate compliance for this device as shown in the summary table below.

Spot Check Verification Result Summary

(Note: The detail test data can be found in this documents, Appendix A, hereafter)

Category	Spot Check	Verdict
Licensed EMC	ERP/EIRP	Share
	RSE	Share
Unlicensed EMC	Band Edge	Share
	Spurious Emissions	Share

Reference Detail Section

Equipment Class	Reference FCC ID	Folder Test/RF Exposure	Report Title/Section
PCE	A3LSMJ701M	GSM WCDMA report	All Sections
	A3LSMJ701M	LTE report	All Sections
DXX	A3LSMJ701M	ANT+ report	All Sections
DSS	A3LSMJ701M	Bluetooth Report	All Sections
DTS	A3LSMJ701M	WLAN DTS Report	All Sections
	A3LSMJ701M	BT LE Report	All Sections



Manager / Chang Seok. Choi
HCT CO.,LTD

Appendix A

Model: A3LSMJ701M(Reference test data) / A3LSMJ701MT(Spot check data)

EFFECTIVE RADIATED POWER

(GSM850/ WCDMA850)

Modulation	Frequency		Mode	A3LSMJ701M (Reference)	A3LSMJ701MT (Reuse)	deviation
				(Reference test data)	(Spot check test data)	
				ERP	ERP	
	MHz	Ch.		(dBm)	(dBm)	
GSM850	836.6	190	VOICE	27.19	27.10	-0.09
WCDMA850	836.6	4183	RMC	19.62	18.95	-0.67

RADIATED SPURIOUS EMISSIONS

(GSM850/ WCDMA850)

Modulation	Frequency		Mode	A3LSMJ701M (Reference)	A3LSMJ701MT (Reuse)	deviation
				(Reference test data)	(Spot check test data)	
				ERP	ERP	
	MHz	Ch.		(dBm)	(dBm)	
GSM850	2509.80	190	VOICE	-41.95	-42.15	-0.20
WCDMA850	3386.4	4233	RMC	-47.05	-47.46	-0.41

EFFECTIVE RADIATED POWER

(LTE – Band 5/13/17)

Modulation	Frequency		Mode Bandwidth	A3LSMJ701M (Reference)	A3LSMJ701MT (Reuse)	deviation
				(Reference test data)	(Spot check test data)	
	ERP			ERP		
	MHz	Ch.		(dBm)	(dBm)	
LTE – B5	829.0	20450	QPSK(10M)	19.13	18.15	-0.98
LTE – B13	782.0	23230	QPSK(10M)	16.53	16.59	0.06
LTE – B17	710.0	23790	QPSK(5M)	17.09	17.95	0.86

RADIATED SPURIOUS EMISSIONS

(LTE – Band 5/13/17)

Modulation	Frequency		Mode Bandwidth	A3LSMJ701M (Reference)	A3LSMJ701MT (Reuse)	deviation
				(Reference test data)	(Spot check test data)	
	ERP			ERP		
	MHz	Ch.		(dBm)	(dBm)	
LTE – B5	3386.0	20625	QPSK(5M)	-40.04	-40.96	-0.92
LTE – B13	3128.0	23230	QPSK(5M)	-51.68	-53.46	-1.78
LTE – B17	3567.5	23825	QPSK(5M)	-37.46	-37.28	0.18

EQUIVALENT ISOTROPIC RADIATED POWER

(GSM1900) / (WCDMA1900) / (WCDMA1700)

Modulation	Frequency		Mode	A3LSMJ701M (Reference)	A3LSMJ701MT (Reuse)	deviation
				(Reference test data)	(Spot check test data)	
				EIRP	EIRP	
	MHz	Ch.		(dBm)	(dBm)	
GSM1900	1850.2	512	VOICE	27.90	27.36	-0.54
WCDMA1900	1852.4	9262	RMC	20.65	21.18	0.53
WCDMA1700	1752.6	1513	RMC	20.40	19.94	-0.46

RADIATED SPURIOUS EMISSIONS

(GSM1900) / (WCDMA1900) / (WCDMA1700)

Modulation	Frequency		Mode	A3LSMJ701M (Reference)	A3LSMJ701MT (Reuse)	deviation
				(Reference test data)	(Spot check test data)	
				EIRP	EIRP	
	MHz	Ch.		(dBm)	(dBm)	
GSM1900	7639.2	810	VOICE	-42.16	-41.61	0.55
WCDMA1900	7409.6	9262	RMC	-40.71	-41.07	-0.36
WCDMA1700	7010.4	1513	RMC	-41.54	-42.99	-1.45

EQUIVALENT ISOTROPIC RADIATED POWER

(LTE – Band 2/7/66)

Modulation	Frequency		Mode Bandwidth	A3LSMJ701M (Reference)	A3LSMJ701MT (Reuse)	deviation
				(Reference test data)	(Spot check test data)	
	EIRP			EIRP		
	MHz	Ch.		(dBm)	(dBm)	
LTE – B2	1880.0	18900	QPSK(3M)	20.51	20.11	-0.40
LTE – B7	2502.5	20775	QPSK(5M)	23.54	22.09	-1.45
LTE – B66	1777.5	132647	QPSK(5M)	20.65	20.53	-0.12

RADIATED SPURIOUS EMISSIONS

(LTE – Band 2/7/66)

Modulation	Frequency		Mode Bandwidth	A3LSMJ701M (Reference)	A3LSMJ701MT (Reuse)	deviation
				(Reference test data)	(Spot check test data)	
	EIRP			EIRP		
	MHz	Ch.		(dBm)	(dBm)	
LTE – B2	7402.8	18607	QPSK(1.4M)	-40.34	-42.29	-1.95
LTE – B7	12675.0	21100	QPSK(15M)	-47.02	-51.83	-4.81
LTE – B66	7117.2	132665	QPSK(1.4M)	-41.64	-42.91	-1.27

Title : A3LSMJ701MT Spot checking result									
Model Name : SM-J701MT									
Report	Test Item	Channel	Measured Frequency	A3LSMJ701M Result [dBuV/m]		A3LSMJ701MT Result [dBuV/m]		Gap [dB]	
				Peak	Average	Peak	Average	Peak	Average
BT	Band Edge	78	2483.5 MHz~2500 MHz	66.89	38.53	66.59	38.09	0.3	0.44
	RSE	78	4960 MHz	53.73	45.15	53.55	45.03	0.18	0.12
BT LE	Band Edge	39	2483.5 MHz~2500 MHz	56.84	46.68	56.75	46.66	0.09	0.02
	RSE	39	4960 MHz	55.71	45.37	55.86	45.48	-0.15	-0.11
DTS	Band Edge	11	2483.5 MHz~2500 MHz	69	50.51	68.49	50.57	0.51	-0.06
	RSE	1	7236 MHz	56.52	45.77	56.56	45.75	-0.04	0.02
ANT+	Band Edge	80	2310 MHz~2400 MHz	60.3	1.78	60.55	1.97	-0.25	-0.19
	RSE	41	4882 MHz	51.08	43.43	51.39	43.64	-0.31	-0.21