



EVALUATION REPORT

Applicant Name:

Samsung Electronics Co., Ltd.
129, Samsung-ro, Maetan dong,
Yeongtong-gu, Suwon-si
Gyeonggi-do, 16677, Korea

Date of Evaluation:

3/20/2017

Test Site/Location:

PCTEST Lab, Columbia, MD, USA

FCC ID:

A3LSMT827R4

APPLICANT:

SAMSUNG ELECTRONICS CO. , LTD.

Test Data Re-Use Summary

Introduction

FCC ID: A3LSMT827R4
Equipment Class(es): PCE, PCB, DTS, NII, DSS, DXS
Rule Part(s): 2, 15, 22, 24, 27
Frequency Bands: See table below
Attestation: The applicant takes full responsibility that the test data referenced below represents compliance for this FCC ID

Differences

Brief Description: The 2G3G, LTE, Bluetooth, WLAN, and ANT+ hardware and software of this device are identical to the implementation in A3LSMT827V. The operational description 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 (See following pages for data)

Category	Band/Mode	Power Level	Test Condition	Verdict
SAR	UMTS850	Max	Body SAR	Share
		Reduced	Body SAR	Share
	UMTS1900	Max	Body SAR	Retest
		Reduced	Body SAR	Share
	LTE B13	Max	Body SAR	Share
		Reduced	Body SAR	Share
	LTE B5	Max	Body SAR	Share
		Reduced	Body SAR	Share
	LTE B4	Max	Body SAR	Share
		Reduced	Body SAR	Share
	2.4GHz WLAN Ant 1	Max	Body SAR	Share
	2.4GHz WLAN Ant 2	Max	Body SAR	Share
	5 GHz WLAN Ant 1	Max	Body SAR	Share
	5 GHz WLAN Ant 2	Max	Body SAR	Share

Category	Frequency Band	Test Condition	Verdict
EMC	Pt. 22	ERP	Re-test
	Pt. 22	RSE	Share
	Pt. 24	ERP	Re-test
	Pt. 24	RSE	Share
	Pt. 27 (700MHz)	ERP	Share
	Pt. 27 (700MHz)	RSE	Share
	Pt. 27 (1700MHz)	ERP	Share
	Pt. 27 (1700MHz)	RSE	Share
	2.4 GHz WLAN	Band Edge	Share
		Spurious Emissions	Share
		Conducted Power	Share
	5 GHz WLAN	Band Edge	Share
		Spurious Emissions	Share
		Conducted Power	Share
	Bluetooth	Band Edge	Share
		Spurious Emissions	Share
		Conducted Power	Share
	ANT+	Band Edge	Share
		Spurious Emissions	Share

Reference Detail Section

Equipment Class	Reference FCC ID	Report Title	Shared Data
PCB	A3LSMT827V	2G3G Report	All Sections except UMS1900 EIRP
	A3LSMT827V	LTE Report	All Sections except LTE Band 5 ERP
	A3LSMT827V	SAR Report	All Sections
DTS	A3LSMT827V	WLAN DTS Report	All Sections
	A3LSMT827V	Bluetooth LE Report	All Sections
NII	A3LSMT827V	SAR Report	All 2.4 GHz WLAN Data
	A3LSMT827V	UNII Report	All Sections
	A3LSMT827V	DFS Report	All Sections
	A3LSMT827V	SAR Report	All 5 GHz WLAN Data
DSS	A3LSMT827V	Bluetooth Report	All Sections
DXS	A3LSMT827V	ANT+ Test Report	All Sections

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SPOT CHECK VERIFICATION DATA

SAR Verification Data Section

Band/Mode	Power Level	A3LSMT827V (W/kg)	A3LSMT827R4 (W/kg)	Deviation	Verdict
UMTS850	Max	1.097	1.045	-4.7%	Share
	Reduced	0.518	0.562	8.5%	Share
UMTS1900	Max	0.793	1.012	27.6%	Retest
	Reduced	0.957	0.871	-9.0%	Share
LTE B13	Max	1.05	1.097	4.5%	Share
	Reduced	0.380	0.337	-11.3%	Share
LTE B5	Max	1.069	1.048	-2.0%	Share
	Reduced	0.499	0.526	5.4%	Share
LTE B4	Max	1.059	0.872	-17.7%	Share
	Reduced	0.838	0.722	-13.8%	Share
2.4GHz WLAN Ant 1	Max	0.771	0.778	0.9%	Share
2.4GHz WLAN Ant 2	Max	0.484	0.534	10.3%	Share
5 GHz WLAN Ant 1	Max	1.099	0.871	-20.7%	Share
5 GHz WLAN Ant 2	Max	0.637	0.571	-10.4%	Share

EMC Verification Data Section

Band/Mode	Test Case	Frequency (MHz)	A3LSMT827V	Unit	A3LSMT827R4	Unit	Verdict
Pt. 22	ERP	846.5	15.19	dBm	16.49	dBm	Re-test
Pt. 22	RSE	3306.0	-59.81	dBm	-61.28	dBm	Share
Pt. 24	ERP	1880.0	19.16	dBm	21.58	dBm	Re-test
Pt. 24	RSE	7520.0	-45.59	dBm	-49.68	dBm	Share
Pt. 27 (700MHz)	ERP	782.0	14.38	dBm	15.32	dBm	Share
Pt. 27 (700MHz)	RSE	2353.5	-48.08	dBm	-64.37	dBm	Share
Pt. 27 (1700MHz)	ERP	1717.5	22.56	dBm	22.66	dBm	Share
Pt. 27 (1700MHz)	RSE	6870.0	-25.16	dBm	-38.07	dBm	Share
2.4 GHz WLAN	Band Edge	2390.0	42.37	dBμV/m	40.44	dBμV/m	Share
2.4 GHz WLAN	RSE	4824.0	38.45	dBμV/m	37.69	dBμV/m	Share
5 GHz WLAN	Band Edge	5150.0	46.04	dBμV/m	45.64	dBμV/m	Share
5 GHz WLAN	RSE	15780.0	36.68	dBμV/m	36.62	dBμV/m	Share
Bluetooth	Band Edge	2483.5	33.45	dBμV/m	32.95	dBμV/m	Share
Bluetooth	RSE	4882.0	37.70	dBμV/m	37.05	dBμV/m	Share
ANT+	FS	2441.0	94.03	dBμV/m	91.40	dBμV/m	Share
ANT+	RSE	4960.0	51.02	dBμV/m	50.69	dBμV/m	Share

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