



EVALUATION REPORT

Applicant Name:
 Samsung Electronics Co., Ltd.
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 Gyeonggi-do, 16677, Korea

Date of Evaluation:
 02/27/2017
Test Site/Location:
 PCTEST Lab, Columbia, MD, USA

FCC ID: A3LSMT825N0

APPLICANT: SAMSUNG ELECTRONICS CO. , LTD.

Test Data Re-Use Summary

Introduction

FCC ID: A3LSMT825N0
 Equipment Class(es): PCB, DTS, NII, DSS, DXX
 Rule Part(s): 2, 15, 22, 24, 27, 90
 Frequency Bands: 2.4 GHz WLAN, 5 GHz WLAN, Bluetooth, ANT+
 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 A3LSMT825. 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	GPRS1900	Max	Body SAR	Share	
		Reduced	Body SAR	Share	
	UMTS850	Max	Body SAR	Share	
		Reduced	Body SAR	Share	
	UMTS1900	Max	Body SAR	Share	
		Reduced	Body SAR	Share	
	LTE B17	Max	Body SAR	Share	
		Reduced	Body SAR	Share	
	LTE B5	Max	Body SAR	Retest	
		Reduced	Body SAR	Share	
	LTE B4	Max	Body SAR	Share	
		Reduced	Body SAR	Share	
	LTE B2	Max	Body SAR	Share	
		Reduced	Body SAR	Share	
	Bluetooth	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	
Bluetooth		Max	Body SAR	Retest	

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

Reference Detail Section

Equipment Class	Reference FCC ID	Report Title	Shared Data
PCB	A3LSMT825	2G3G Report	All Sections
	A3LSMT825	LTE Report	All Sections
	A3LSMT825	SAR Report	All Sections
DTS	A3LSMT825	WLAN DTS Report	All Sections
	A3LSMT825	Bluetooth LE Report	All Sections
NII	A3LSMT825	SAR Report	All 2.4 GHz WLAN Data
	A3LSMT825	UNII Report	All Sections
	A3LSMT825	DFS Report	All Sections
DSS	A3LSMT825	SAR Report	All 5 GHz WLAN Data
	A3LSMT825	Bluetooth Report	All Sections
DXX	A3LSMT825	ANT+ Test Report	All Sections

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SPOT CHECK VERIFICATION DATA

SAR Verification Data Section

Band/Mode	Power Level	A3LSMT825 (W/kg)	A3LSMT825N0 (W/kg)	Deviation	Verdict
GPRS1900	Max	0.735	0.342	-53.5%	Share
	Reduced	0.930	0.702	-24.5%	Share
UMTS850	Max	0.732	0.801	9.4%	Share
	Reduced	0.763	0.734	-3.8%	Share
UMTS1900	Max	0.791	0.659	-16.7%	Share
	Reduced	0.571	0.551	-3.5%	Share
LTE B17	Max	0.899	0.809	-10.0%	Share
	Reduced	0.891	0.655	-26.5%	Share
LTE B5	Max	0.538	0.615	14.3%	Retest
	Reduced	0.576	0.593	3.0%	Share
LTE B4	Max	0.982	1.03	4.9%	Share
	Reduced	0.603	0.611	1.3%	Share
LTE B2	Max	0.538	0.569	5.8%	Share
	Reduced	0.685	0.524	-23.5%	Share
2.4GHz WLAN Ant 1	Max	0.855	0.679	-20.6%	Share
2.4GHz WLAN Ant 2	Max	0.462	0.392	-15.2%	Share
5 GHz WLAN Ant 1	Max	0.900	0.526	-41.6%	Share
5 GHz WLAN Ant 2	Max	0.814	0.628	-22.9%	Share
Bluetooth	Max	0.074	0.204	175.7%	Retest

EMC Verification Data Section

Band/Mode	Test Case	Frequency (MHz)	A3LSMT825	Unit	A3LSMT825N0	Unit	Verdict
Pt. 22	ERP	836.6	19.92	dBm	19.39	dBm	Share
Pt. 22	RSE	1673.2	-63.72	dBm	-66.97	dBm	Share
Pt. 24	ERP	1880	31.17	dBm	29.73	dBm	Share
Pt. 24	RSE	3760	-50.82	dBm	-50.63	dBm	Share
Pt. 27 (700MHz)	ERP	710	20.49	dBm	20.04	dBm	Share
Pt. 27 (700MHz)	RSE	1420	-59.94	dBm	-66.82	dBm	Share
Pt. 27 (1700MHz)	ERP	1720	25.56	dBm	25.24	dBm	Share
Pt. 27 (1700MHz)	RSE	3440	-47.38	dBm	-56.99	dBm	Share
2.4 GHz WLAN	Band Edge	2462.0	51.82	dBμV	50.29	dBμV	Share
2.4 GHz WLAN	RSE	4874.0	55.05	dBμV/m	50.80	dBμV/m	Share
5 GHz WLAN	Band Edge	5190.0	49.57	dBμV	46.58	dBμV	Share
5 GHz WLAN	RSE	11570.0	50.40	dBμV/m	48.88	dBμV/m	Share
Bluetooth	Band Edge	2480.0	25.42	dBμV	24.07	dBμV	Share
Bluetooth	RSE	4882.0	36.50	dBμV/m	37.38	dBμV/m	Share
ANT+	Band Edge	2480.0	-4.05	dBμV	-3.08	dBμV	Share
ANT+	RSE	4960.0	49.03	dBμV/m	49.80	dBμV/m	Share

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