

EVALUATION REPORT

Applicant Name:

Samsung Electronics Co., Ltd.

Address:

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Yeongtong-gu, Suwon-si Gyeonggi-
do, 16677, Korea

Date of Evaluation:

December 15, 2016

Test Site/Location:

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

FCC ID
: A3LSMA320X
APPLICANT
: Samsung Electronics Co., Ltd.

Test Data Re-Use Summary

Introduction

FCC ID: A3LSMA320X

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

Rule Part(s): 2,15

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 Bluetooth, WLAN, NFC, ANT+ hardware and software of this device are identical to the implementation in A3LSMA320F. 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
SAR:	2.4 GHz WLAN	Share
	5 GHz WLAN	Share
Unlicensed EMC	Band Edge	Share
	Spurious Emissions	Share

Reference Detail Section

Equipment Class	Reference FCC ID	Folder Test/RF Exposure	Report Title/Section
DXX	A3LSMA320F	ANT+ report	All Sections
	A3LSMA320F	NFC report	All Sections
DSS	A3LSMA320F	Bluetooth Report	All Sections
DTS	A3LSMA320F	WLAN DTS Report	All Sections
	A3LSMA320F	Bluetooth LE Report	All Sections
	A3LSMA320F	SAR report	All Sections
NII	A3LSMA320F	UNII report	All Sections
	A3LSMA320F	SAR report	All Sections
	A3LSMA320F	DFS report	All Sections



Signature

Manager / Chang Seok. Choi
HCT CO.,LTD

Appendix A

Title : A3LSMA320X Spot checking result									
Report	Test Item	Channel	Measured Frequency	A3LSMA320F Result [dBuV/m]		A3LSMA320X Result [dBuV/m]		Gap [dB]	
				Peak	Average	Peak	Average	Peak	Average
ANT+	Fundamental	39	2441 MHz	91.01	-	91.51	-	-0.5	-
	Band Edge	0	2400 MHz	66.99	14.6	66.22	14.27	0.77	0.33
	RSE	78	4960 MHz	51.82	43.3	51.31	42.4	0.51	0.90
			7440 MHz	55.5	43.74	55.54	43.42	-0.04	0.32
BT	Band Edge	78	2483.5 MHz~2500 MHz	63.69	35.5	63.28	34.61	0.41	0.89
	RSE	78	4960 MHz	54.79	47.52	53.21	45.41	1.58	2.11
			7440 MHz	-	-	-	-	-	-
BT LE	Band Edge	39	2483.5 MHz~2500 MHz	52.71	41.91	54.52	40.98	-1.81	0.93
	RSE	39	4960 MHz	53.05	43.91	52.05	42.24	1	1.67
			7440 MHz	-	-	-	-	-	-
DTS	Band Edge	11	2483.5 MHz~2500 MHz	60.55	49.09	62.35	50.3	-1.8	-1.21
	RSE	6	4874 MHz	53.66	47.16	54.13	46.03	-0.47	1.13
			7311 MHz	-	-	-	-	-	-
NFC	Fundamental	-	13.56 MHz	13.4		15.72		-2.32	
UNII (20MHz)	Band Edge	100	5350 MHz~5460 MHz	55.29	42.36	55.35	42.74	-0.06	-0.38
			5460 MHz~5470 MHz	57.43	-	58.9	-	-1.47	-
	RSE	100	11000 MHz	62.85	47.03	60.48	45.55	2.37	1.48
UNII (40MHz)	Band Edge	102	5350 MHz~5460 MHz	56.91	43.24	57.63	43.6	-0.72	-0.36
			5460 MHz~5470 MHz	59.64	-	60.96	-	-1.32	-
	RSE	102	11020 MHz	53.45	40.45	55.85	41.82	-2.4	-1.37
UNII (80MHz)	Band Edge	42	4500 MHz~5150 MHz	57.74	46.02	57.81	46.64	-0.07	-0.62
	RSE	155	17325 MHz	56.02	-	55.55	-	0.47	-
DFS	Channel Move Time (Limit 10s)	58	5290 MHz	0.251874		0.00717		0.244704	
	Channel Closing Transmission Time, Aggregate Time After 200ms (Limit 60 ms)	58	5290 MHz	0.00014		0.000143		-0.000003	

2. Subject: Summary of the spot check for RF Exposure

Per FCC KDB 484596 D01 Referencing Test Data DR01-42712 4) e)

For RF exposure purposes, each combination of frequency band, wireless mode, and exposure test conditions shall be considered separately. A KDB inquiry is recommended for complex device configurations to confirm appropriate RF exposure test cases

Band	A3LSMA320F Measured 1g SAR(W/kg) Result		A3LSMA320X Measured 1g SAR(W/kg) Spot check Result	Deviation (%)
2.4GHz WLAN	Head	0.722	0.598	-17.17%
	Body worn	0.11	0.0955	-13.18%
5GHz WLAN	Head	0.451	0.341	-24.39%
	Body worn	0.313	0.332	6.07%