

EVALUATION REPORT

Applicant Name: SAMSUNG Electronics Co., Ltd.	Date of Evaluation: September 07, 2018
Address: 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea	Test Site/Location: HCT CO., LTD., 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA

FCC ID:	A3LSMJ415GN
APPLICANT:	SAMSUNG Electronics Co., Ltd.

Equipment Class(es) : PCE
 Rule Part(s) : 24, 27
 Application's Statement : The applicant takes full responsibility that the test data referenced below represents compliance for this FCC ID.

Differences
 Brief Description : Some Cellular parts, Bluetooth & WLAN hardware and software of this device are identical to the implementation in A3LSMJ610G.
 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.

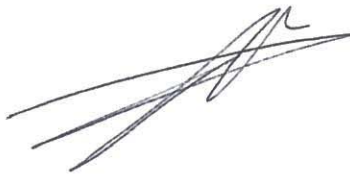
Test Reference : KDB 484596 D01 Reference Test Data v01

The detail test data can be found in this documents, Appendix A.

Category	Spot Check	Verdict
Licensed EMC	ERP / EIRP	Share
	RSE	Share

Reference Detail Section

Reference FCC ID	Equipment Class	Report Title	Section
A3LSMJ610G	PCE	2G, 3G Report	WCDMA B4
		LTE Report	LTE B2, LTE B4, LTE B12, LTE B13, LTE B17, LTE B66




Report prepared by : Kwon Jeong
Engineer of Telecommunication Testing Center

Report approved by : Jong Seok Lee
Manager of Telecommunication Testing Center

Appendix A. The Spot check test data

1. Summary of the spot check for Licensed EMC

1.1 EFFECTIVE RADIATED POWER

Modulation	Frequency		Mod/ Bandwidth	SM-J610G/DS (dBm)	SM-J415GN/DS (dBm)	Deviation (dB)
	MHz	Ch.				
LTE – B13	782.0	23230	QPSK(10M)	16.01	15.35	-0.66

Modulation	Frequency		Mod/ Bandwidth	SM-J610G/DS (dBm)	SM-J415GN/DS (dBm)	Deviation (dB)
	MHz	Ch.				
LTE – B12(17)	714.5	23165	QPSK(3M)	16.98	17.54	0.56

1.2 EQUIVALENT ISOTROPIC RADIATED POWER

Modulation	Frequency		Mode	SM-J610G/DS (dBm)	SM-J415GN/DS (dBm)	Deviation (dB)
	MHz	Ch.				
WCDMA1700	1752.6	1513	RMC	22.58	22.37	-0.21

Modulation	Frequency		Mod/ Bandwidth	SM-J610G/DS (dBm)	SM-J415GN/DS (dBm)	Deviation (dB)
	MHz	Ch.				
LTE – B2	1850.7	18607	QPSK(1.4M)	22.27	22.45	0.18

Modulation	Frequency		Mod/ Bandwidth	SM-J610G/DS (dBm)	SM-J415GN/DS (dBm)	Deviation (dB)
	MHz	Ch.				
LTE – B66(4)	1745.0	132322	QPSK(10M)	20.43	20.13	-0.30

1.3 RADIATED SPURIOUS EMISSIONS

Modulation	Frequency		Mod/ Bandwidth	SM-J610G/DS (dBm)	SM-J415GN/DS (dBm)	Deviation (dB)
	MHz	Ch.				
LTE – B13	4677.0	23205	QPSK(5M)	-37.90	-52.14	-14.24

Modulation	Frequency		Mod/ Bandwidth	SM-J610G/DS (dBm)	SM-J415GN/DS (dBm)	Deviation (dB)
	MHz	Ch.				
LTE – B12(17)	2145.9	23173	QPSK(1.4M)	-46.69	-52.29	-5.60

Modulation	Frequency		Mod/ Bandwidth	SM-J610G/DS (dBm)	SM-J415GN/DS (dBm)	Deviation (dB)
	MHz	Ch.				
LTE – B66(4)	5134.5	131987	QPSK(3M)	-27.06	-37.41	-10.35

Modulation	Frequency		Mode	SM-J610G/DS (dBm)	SM-J415GN/DS (dBm)	Deviation (dB)
	MHz	Ch.				
WCDMA1700	8662.0	1412	RMC	-37.08	-41.25	-4.17

Modulation	Frequency		Mod/ Bandwidth	SM-J610G/DS (dBm)	SM-J415GN/DS (dBm)	Deviation (dB)
	MHz	Ch.				
LTE – B2	5580.0	18700	QPSK(20M)	-33.16	-34.01	-0.85

2. List of test equipment for Licensed EMC

Manufacture	Model/ Equipment	Calibration Date	Calibration Interval	Serial Number
REOHDE & SCHWARZ	SCU 18 / AMPLIFIER	04/17/2018	Annual	10094
Wainwright	WHK1.2/15G-10EF/H.P.F	04/04/2018	Annual	4
Wainwright	WHK3.3/18G-10EF/H.P.F	04/04/2018	Annual	2
Schwarzbeck	UHAP/ Dipole Antenna	03/31/2017	Biennial	557
Schwarzbeck	UHAP/ Dipole Antenna	03/31/2017	Biennial	558
Schwarzbeck	BBHA 9120D/ Horn Antenna(1~18GHz)	09/09/2016	Biennial	147
Schwarzbeck	BBHA 9120D/ Horn Antenna(1~18GHz)	10/14/2016	Biennial	9120D-1298
Schwarzbeck	BBHA 9170/ Horn Antenna(15~40GHz)	04/25/2017	Biennial	BBHA9170342
Schwarzbeck	BBHA 9170/ Horn Antenna(15~40GHz)	04/25/2017	Biennial	BBHA9170124
REOHDE & SCHWARZ	FSV40/Spectrum Analyzer(10Hz~40GHz)	10/30/2017	Annual	100931
Agilent	8960 (E5515C)/ Base Station	09/26/2017	Annual	MY48360800
Schwarzbeck	FMZB1513/ Loop Antenna(9kHz~30MHz)	04/19/2017	Biennial	1513-175
Schwarzbeck	VULB9160/ Bilog Antenna	09/30/2016	Biennial	3150
Schwarzbeck	VULB9160/ Bilog Antenna	08/09/2018	Biennial	9360-3368
Schwarzbeck	VULB9160/ Hybrid Antenna	04/06/2017	Biennial	760
Anritsu Corp.	MT8820C/Wideband Radio Communication Tester	02/13/2018	Annual	6200863156
Anritsu Corp.	MT8820C/Wideband Radio Communication Tester	02/08/2018	Annual	6201026545
REOHDE & SCHWARZ	SMB100A/ SIGNAL GENERATOR (100kHz~40GHz)	07/19/2018	Annual	177633
REOHDE & SCHWARZ	ESU40 / EMI TEST RECEIVER	07/27/2018	Annual	100524
HCT CO., LTD.,	FCC LTE Mobile Conducted RF Automation Test Software	-	-	-