

EVALUATION REPORT

Applicant Name:
 LG Electronics Inc.

Date of Evaluation:
 October 12, 2018

Address:
 222, LG-ro, Jinwi-myeon, Pyeongtaek-si, Gyeonggi-do, 451-713, Korea

Test Site/Location:
 HCT CO., LTD.,
 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA

FCC ID: BEJIL7FF

APPLICANT: LG Electronics Inc.

Equipment Class(es) : DSS, DTS, UNII

Rule Part(s) : 15

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 BEJIL7FB. 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.

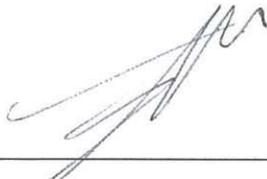
Test Reference : KDB 484596 D01 Reference Test Data v01

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

Category	Spot Check	Verdict
Unlicensed EMC	Band Edge	Share
	Spurious Emissions	Share

Reference Detail Section

Reference FCC ID	Equipment Class	Report Title	Section
BEJIL7FB	DSS	Bluetooth Report	All sections
	DTS	WLAN DTS Report	All sections
	UNII	UNII Report	All sections



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

Internal Antenna

Test Item		Mod/ Channel	Measured Frequency [MHz]	IL7FB		IL7FF		Deviation	
				(dBuV/m)		(dBuV/m)		(dB)	
				Peak	Average	Peak	Average	Peak	Average
BT	Band Edge	2-DH5/ ch.78	2483.5 ~ 2500	62.71	46.74	60.89	45.13	-1.82	-1.61
	RSE	DH5/ ch.39	4882	53.15	40.16	51.80	38.14	-1.35	-2.02
		3DH-5/ ch.0	7206	57.30	43.16	56.89	43.00	-0.41	-0.16
DTS	Band Edge	802.11n/ ch.10	2483.5 ~ 2500	68.16	50.98	69.28	51.40	1.12	0.42
	RSE	802.11g /ch.6	4874	51.31	39.72	51.74	39.89	0.43	0.17
		802.11b /ch.1	7236	60.39	50.69	60.60	50.78	0.21	0.09
UNII	Band Edge	802.11a /ch.100	5460 ~ 5470	61.07	-	58.74	-	-2.33	-
	RSE	802.11a /ch.100	11000	64.12	49.99	61.62	47.19	-2.50	-2.80
		802.11a /ch.48	15720	67.22	50.69	63.87	46.85	-3.35	-3.84

External Antenna

Test Item		Mod/ Channel	Measured Frequency [MHz]	IL7FB (dBuV/m)		IL7FF (dBuV/m)		Deviation (dB)	
				Peak	Average	Peak	Average	Peak	Average
DTS	Band Edge	802.11g /ch.1	2483.5 ~ 2500	66.67	50.44	64.90	49.97	-1.77	-0.47
	RSE	802.11g /ch.6	4874	51.22	39.63	50.74	38.84	-0.48	-0.79
		802.11g /ch.1	7236	56.94	44.97	56.08	44.20	-0.86	-0.77
UNII	Band Edge	802.11ac (VHT80) /ch.106	5350 ~ 5460	69.87	50.85	67.59	49.54	-2.28	-1.31
	RSE	802.11a /ch.165	11650	61.94	47.80	60.99	45.70	-0.95	-2.10
		802.11a /ch.165	17475	65.05	-	62.37	-	-2.68	-

List of test equipment for Unlicensed EMC

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Innco system	CO3000 / Controller(Antenna mast)	N/A	N/A	CO3000-4p
Innco system	MA4640/800-XP-EP / Antenna Position Tower	N/A	N/A	N/A
Audix	EM1000 / Controller	N/A	N/A	060520
Audix	Turn Table	N/A	N/A	N/A
Rohde & Schwarz	Loop Antenna	04/19/2017	Biennial	1513-175
Schwarzbeck	VULB 9160 / Hybrid Antenna	08/09/2018	Annual	3368
Schwarzbeck	BBHA 9120D / Horn Antenna	05/02/2017	Biennial	9120D-937
Schwarzbeck	BBHA9170 / Horn Antenna(15 GHz ~ 40 GHz)	12/04/2017	Biennial	BBHA9170541
Rohde & Schwarz	FSP(9 kHz ~ 30 GHz) / Spectrum Analyzer	09/03/2018	Annual	100688
Rohde & Schwarz	FSV40-N / Spectrum Analyzer	09/28/2018	Annual	101068-SZ
Wainwright Instruments	WHK3.0/18G-10EF / High Pass Filter	06/07/2018	Annual	8
Wainwright Instruments	WHFX7.0/18G-8SS / High Pass Filter	05/09/2018	Annual	29
Wainwright Instruments	WRCJV2400/2483.5-2370/2520-60/12SS / Band Reject Filter	06/29/2018	Annual	2
Wainwright Instruments	WRCJV5100/5850-40/50-8EEK / Band Reject Filter	01/03/2018	Annual	2
Api tech.	18B-03 / Attenuator (3 dB)	06/07/2018	Annual	1
Agilent	8493C-10 / Attenuator(10 dB)	07/17/2018	Annual	08285
CERNEX	CBLU1183540 / Power Amplifier	07/10/2018	Annual	22964
CERNEX	CBL06185030 / Power Amplifier	07/10/2018	Annual	22965
CERNEX	CBL18265035 / Power Amplifier	01/10/2018	Annual	22966
CERNEX	CBL26405040 / Power Amplifier	06/29/2018	Annual	25956
TESCOM	TC-3000C / Bluetooth Tester	03/27/2018	Annual	3000C000276
Agilent	N9030A / Signal Analyzer	11/22/2017	Annual	MY49431210

Note:

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.
3. Model : FSV40-N

- Use date of equipment : September 29, 2018 ~ October 11, 2018