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TEST REPORT

EVALUATION Test for AT1K01-A10

APPLICANT

SAMSUNG Electronics Co., Ltd.

DATE OF ISSUE

July 30, 2019

HCT Co., Ltd.

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<h1 style="margin: 0;">TEST REPORT</h1> <p style="margin: 0;">EVALUATION Test for AT1K01-A01</p>	<p>DATE OF ISSUE July 30, 2019</p> <p>FCC ID A3LAT1K01-A10</p>
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Applicant	SAMSUNG Electronics Co., Ltd. 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
Equipment Class(es) Rule Part(s)	5GB 30
Application's Statement	The applicant takes full responsibility that the test data referenced below represents compliance for this FCC ID.
Differences Brief Description	The hardware and software of this device are identical to the implementation in A3LAT1K01-A00. 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 result shown in this test report refer only to the sample(s) tested unless otherwise stated.

Tested by
Kwang Il Yoon


(signature)

Technical Manager
Jong Seok Lee


(signature)

HCT CO., LTD.
Soo Chan Lee
SooChan Lee / CEO

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

Category	Spot Check	Verdict
Licensed	EIRP Density Conducted output power RSE	Share

Reference Detail Section

Equipment Class	Reference ID	Section
5GB	A3LAT1K01-A10	All sections

Appendix A. The Spot check test data

1. Summary of the spot check

Test Item/Modulation	Frequency Range [MHz]	AT1K01-A00 Result	AT1K01-A01 Result	Deviation
		[dBm]	[dBm]	[dB]
		Average	Average	Average
EIRP Density / 1CC / Ant B / 64QAM	27.55	48.19	47.79	0.40
EIRP Density / 8CC / Ant A / 16QAM	27.90	47.01	46.58	0.43
Conducted / 1CC / Ant B / 16QAM	27.55	20.88	20.69	0.19
Conducted / 8CC / Ant B / 64QAM	27.95	25.95	25.82	0.13
RSE / 1CC / QPSK	33.12	-15.31	-15.39	0.08
RSE / 8CC / QPSK	33.48	-16.10	-16.23	0.13

2. List of test equipment for EMC

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Agilent	N9030B / PXA Signal Analyzer	08/29/2018	Annual	MY55480167
Schwarzbeck	BBHA 9170 / Horn Antenna	12/04/2017	Biennial	BBHA9170541
KIKUSUI	PWR800L / DC Power Supply	07/18/2019	Annual	RE002047
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
Rohde&Schwarz	FSW / Spectrum Analyzer	09/27/2018	Annual	101256
Rohde&Schwarz	FSP / Spectrum Analyzer	09/19/2018	Annual	836650/016
Rohde & Schwarz	Loop Antenna	01/18/2019	Biennial	1513-175
Emco	2090 / Controller	N/A	N/A	060520
Ets	Turn Table	N/A	N/A	N/A
Schwarzbeck	VULB 9168 / Hybrid Antenna	08/31/2018	Biennial	00895
Schwarzbeck	BBHA 9120D / Horn Antenna	06/28/2019	Biennial	9120D-1300
OML INC.	WR-19 Horn Antenna / Horn Antenna	04/23/2018	Biennial	18042301
OML INC.	WR-19 Horn Antenna / Horn Antenna	04/23/2018	Biennial	18042302
OML INC.	WR-12 Horn Antenna / Horn Antenna	04/23/2018	Biennial	18042301
OML INC.	WR-12 Horn Antenna / Horn Antenna	04/23/2018	Biennial	18042302
OML INC.	WR-08 Horn Antenna / Horn Antenna	05/01/2018	Biennial	18050101
OML INC.	WR-08 Horn Antenna / Horn Antenna	05/01/2018	Biennial	18050102
OML INC.	OML WR19 / Harmonic Mixer	09/27/2018	Annual	W19HWD
OML INC.	OML WR12 / Harmonic Mixer	09/27/2018	Annual	W12HWD
OML INC.	OML WR08 / Harmonic Mixer	09/27/2018	Annual	W08HWD
OML INC.	WR-19 / Source Module	09/27/2018	Annual	S19MS-A-160516-1
OML INC.	WR-12 / Source Module	09/27/2018	Annual	S12MS-A-160419-1
OML INC.	WR-08 / Source Module	09/27/2018	Annual	S08MS-A-160419-1
NANGYEUL CO., LTD.	NY-THR18750 / Temperature and Humidity Chamber	10/30/2018	Annual	NY-2009012201A
Rohde & Schwarz	SMV100A / Signal Generator	07/15/2019	Annual	177633

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.