

# EVALUATION REPORT

<b>Applicant Name:</b> HYUNDAI MOBIS CO., LTD.	<b>Date of Evaluation:</b> December 21, 2018
<b>Address:</b> 203, Teheran-ro, Gangnam-gu, Seoul, 135-977, South Korea	<b>Test Site/Location:</b> HCT CO., LTD., 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA

<b>FCC ID:</b>	<b>TQ8-ATB40S9AN</b>
<b>APPLICANT:</b>	<b>HYUNDAI MOBIS CO., LTD.</b>

Equipment Class(es) : DTS, UNII, BT  
 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 TQ8-ATC40S9AN  
 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	Original models' test report	Section
TQ8-ATC40S9AN	DTS	WLAN DTS Report	HCT-RF-1809-FC078	All sections
	UNII	UNII Test Report	HCT-RF-1809-FC076	All sections

\*Equipment Class BT : Not Reference Test Data , BT Retest All (Not reused)



**Report prepared by : Jeong Ho Kim**  
**Engineer of Telecommunication Testing Center**



**Report approved by : Kwon Jeong**  
**Manager of Telecommunication Testing Center**

## Appendix A. The Spot check test data

### 1. Summary of the spot check for Unlicensed EMC

	Test Item	Channel	Measured Frequency (MHz)	ATC40S9AN (dBuV/m)		ATB40S9AN (dBuV/m)		Deviation (dB)	
				Peak	Average	Peak	Average	Peak	Average
DTS	Band Edge	802.11g 6Mbps/ch.1	2310 MHz ~ 2390 MHz	53.30	43.20	53.91	42.81	0.61	-0.39
	RSE	802.11g 6Mbps/ch.6	4874 MHz	51.94	39.98	51.65	39.13	-0.29	-0.85
		802.11g 6Mbps/ch.6	7311 MHz	57.04	45.01	57.86	45.42	0.82	0.41
UNII	Band Edge	802.11n(40M) MCS0/ch.102	5460 MHz ~ 5470 MHz	64.05	-	64.93	-	0.88	-
	RSE	802.11ac(20M) 6Mbps/ch.165	11650 MHz	57.07	51.66	58.43	53.42	1.36	1.76
		802.11n(20M) MSC0/ch.165	17475 MHz	57.08	-	57.94	-	0.86	-
BT	Not Reused								

## 2. 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	08/23/2018	Biennial	1513-175
Schwarzbeck	VULB 9168 / Hybrid Antenna	04/06/2017	Biennial	760
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	FSP40(9 kHz ~ 40 GHz) / Spectrum Analyzer	07/24/2018	Annual	100843
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