



# FCC RADIO TEST REPORT

**FCC ID** : 2AW3A-1NAC21ACUCM  
**Equipment** : EV Charger  
**Brand Name** : RIVIAN  
**Model Name** : PT00057322  
                   PT00261633  
                   PT00401761  
                   PT00340197  
**Marketing Name** : RIVIAN WAYPOINTS CHARGER  
                       RIVIAN FLEET AC DISPENSER  
**Applicant** : Rivian Automotive LLC.  
                   607 Hansen Way, Palo Alto, CA 94304  
**Manufacturer** : Lite-On Technology Corporation  
                   15F , No.555, Siyuan Rd., Xinzhuang Dist.,  
                   New Taipei City, Taiwan (R.O.C.)  
**Standard** : FCC 47 CFR Part 2, 22(H), 24(E)

The product was received on Mar. 25, 2022 and testing was performed from Apr. 29, 2022 to May 15, 2022. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The test results in this partial report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

*Louis Wu*

Approved by: Louis Wu

**Sporton International Inc. Wensan Laboratory**

No. 58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)



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## History of this test report

Report No.	Version	Description	Issue Date
FG230116A	01	Initial issue of report	Sep. 14, 2022



### Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Pass	-
	§22.913 (a)(5)	Effective Radiated Power (GSM850)		
	§24.232 (c)	Equivalent Isotropic Radiated Power (GSM1900)		
-	§24.232 (d)	Peak-to-Average Ratio	-	See Note
-	§2.1049 §22.917 (b) §24.238 (b)	Occupied Bandwidth (GSM850) (GSM1900)	-	See Note
-	§2.1051 §22.917 (a) §24.238 (a)	Band Edge Measurement (GSM850) (GSM1900)	-	See Note
-	§2.1051 §22.917 (a) §24.238 (a)	Conducted Emission (GSM850) (GSM1900)	-	See Note
-	§2.1055 §22.355 §24.235	Frequency Stability Temperature & Voltage	-	See Note
4.4	§2.1053 §22.917 (a) §24.238 (a)	Field Strength of Spurious Radiation (GSM850) (GSM1900)	Pass	2.25 dB under the limit at 2509.000 MHz

**Note:** The module (Model: BG96, BG96 MINPCIE) makes no difference after verifying output power, this report reuses test data from the module report.

**Declaration of Conformity:**

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers. It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
- The measurement uncertainty please refer to this report "Uncertainty of Evaluation".

**Comments and Explanations:**

The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity.

**Reviewed by: Yun Huang**

**Report Producer: Lucy Wu**



# 1 General Description

## 1.1 Product Feature of Equipment Under Test

GSM/LTE, Bluetooth - LE, Wi-Fi 2.4GHz 802.11b/g/n, and NFC.

Product Feature	
Sample 1	SKU 1
Sample 2	SKU 2
Sample 3	SKU 3
Sample 4	SKU 4
Antenna Type	WWAN: Fixed External Antenna WLAN: FPC Antenna Bluetooth: Internal Antenna NFC: PCB Loop Antenna
Antenna Gain	Cellular Band: 2.7 dBi PCS Band: 2.9 dBi

Remark: The EUT's information above is declared by manufacturer. Please refer to Comments and Explanations in report summary.

	SKU 1	SKU 2	SKU 3	SKU 4
	Public	Fleet	Fleet	Fleet
	LITEON: W1-UC166-0TH1ER	LITEON: W1-UC16A-00H1ER	LITEON: W1-UC168-00H1ER	LITEON: W1-UC166-00H1ER
	RIVIAN: PT00057322	RIVIAN:PT00261633	RIVIAN: PT00340197	RIVIAN:PT00401761
LCD Panel	Yes	NO	NO	NO
Charge Plug	25ft	32ft	25ft	18ft
LTE module	YES	YES	YES	YES
BLE module	YES	YES	YES	YES
Wi-Fi module	YES	YES	YES	YES
RFID module	YES	YES	YES	YES
Holster	YES	NO	NO	NO
Holster cover	YES	YES	YES	YES

## 1.2 Modification of EUT

No modifications made to the EUT during the testing.



### 1.3 Testing Location

<b>Test Site</b>	Sporton International Inc. EMC & Wireless Communications Laboratory
<b>Test Site Location</b>	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
<b>Test Site No.</b>	<b>Sporton Site No.</b> TH03-HY (TAF Code: 1190)
<b>Test Engineer</b>	HaoEn Zhang
<b>Temperature (°C )</b>	21.6~23.5
<b>Relative Humidity (%)</b>	51.1~52.6
<b>Remark</b>	The Conducted test item subcontracted to Sporton International Inc. EMC & Wireless Communications Laboratory

<b>Test Site</b>	Sporton International Inc. Wensan Laboratory
<b>Test Site Location</b>	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
<b>Test Site No.</b>	<b>Sporton Site No.</b> 03CH11-HY
<b>Test Engineer</b>	Theodore Huang, Fu Chen and Troye Hsieh
<b>Temperature (°C )</b>	20.1~21.7
<b>Relative Humidity (%)</b>	56.1~67.5

**Note:** The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: TW1190 and TW3786

### 1.4 Applicable Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ ANSI C63.26-2015
- ♦ ANSI / TIA-603-E
- ♦ FCC 47 CFR Part 2, 22(H), 24(E)
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01

**Remark:**

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.

## 2 Test Configuration of Equipment Under Test

### 2.1 Test Mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

Radiated emissions were investigated as following frequency range:

1. 30 MHz to 9000 MHz for GSM850
2. 30 MHz to 19100 MHz for GSM1900

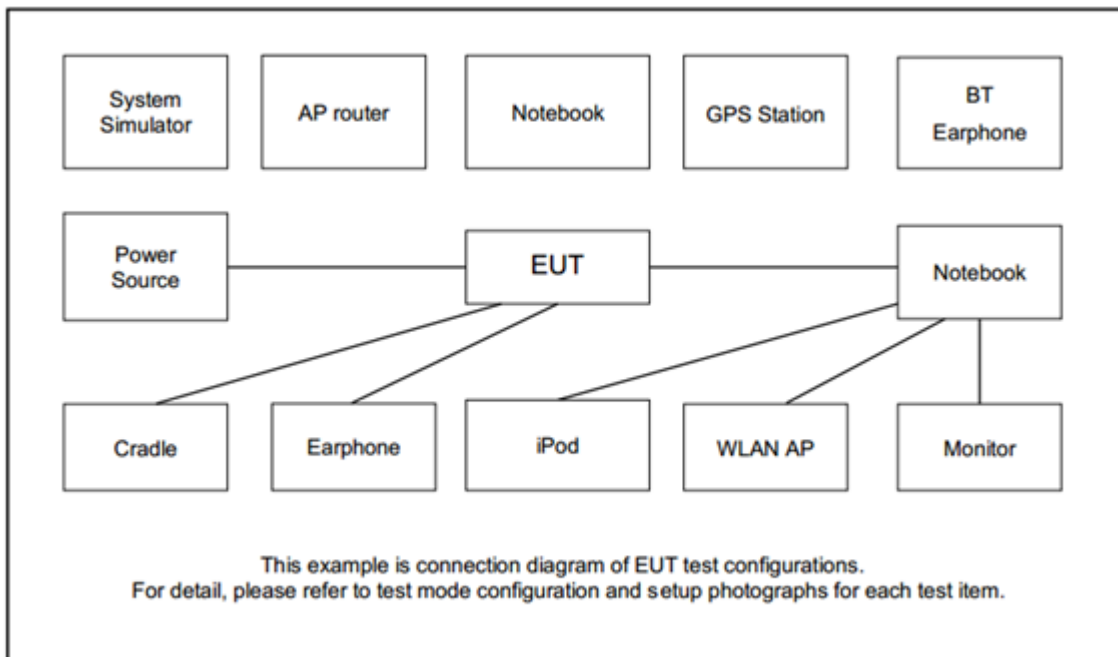
All modes, data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

Test Modes		
Band	Radiated TCs	Conducted TCs
GSM850	■ GPRS Class 8 Link	■ GPRS Class 8 Link
GSM1900	■ GPRS Class 8 Link	■ GPRS Class 8 Link

Remark: All the radiated test cases were performed with Sample 1.

### 2.2 Connection Diagram of Test System





### 2.3 Support Unit used in test configuration

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m

### 2.4 Frequency List of Low/Middle/High Channels

Frequency List				
Band	Channel/Frequency(MHz)	Lowest	Middle	Highest
GSM850	Channel	128	189	251
	Frequency	824.2	836.4	848.8
GSM1900	Channel	512	661	810
	Frequency	1850.2	1880.0	1909.8



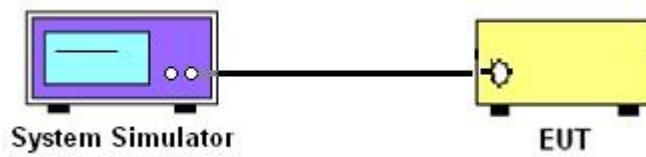
### 3 Conducted Test Result

#### 3.1 Measuring Instruments

Please refer to the measuring equipment list in this test report.

##### 3.1.1 Test Setup

##### 3.1.2 Conducted Output Power



##### 3.1.3 Test Result of Conducted Test

Please refer to Appendix A.



## 3.2 Conducted Output Power and ERP/EIRP

### 3.2.1 Description of the Conducted Output Power and ERP/EIRP

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The ERP of mobile transmitters must not exceed 7 Watts for GSM850

The EIRP of mobile transmitters must not exceed 2 Watts for GSM1900

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$ ,  $ERP = EIRP - 2.15$ , where

$P_T$  = transmitter output power in dBm

$G_T$  = gain of the transmitting antenna in dBi

$L_C$  = signal attenuation in the connecting cable between the transmitter and antenna in dB

### 3.2.2 Test Procedures

1. The transmitter output port is connected to the system simulator.
2. Set EUT at maximum power through system simulator.
3. Select the lowest, middle, and the highest channels for each band and different modulation.
4. Measure the maximum burst average power for GSM and maximum average power for other modulation signal.

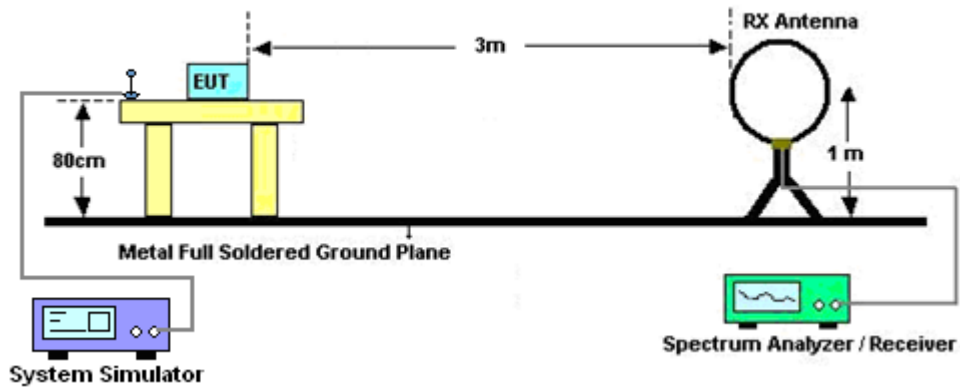
## 4 Radiated Test Items

### 4.1 Measuring Instruments

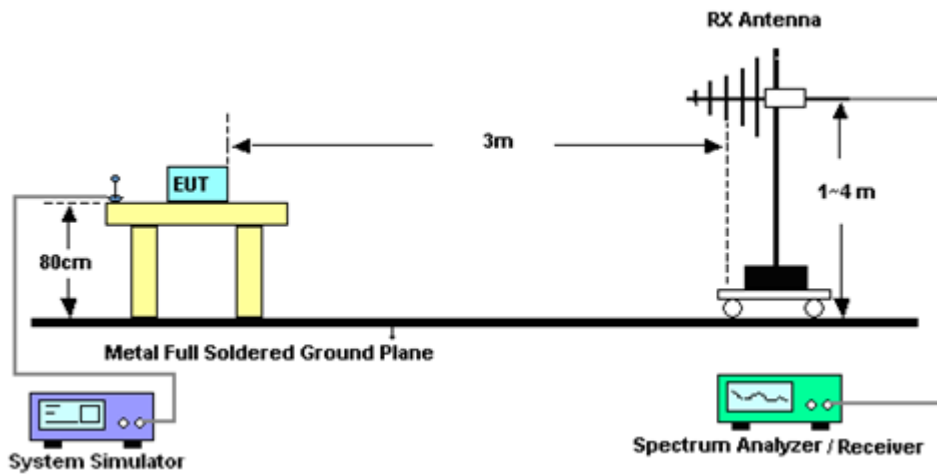
Please refer to the measuring equipment list in this test report.

### 4.2 Test Setup

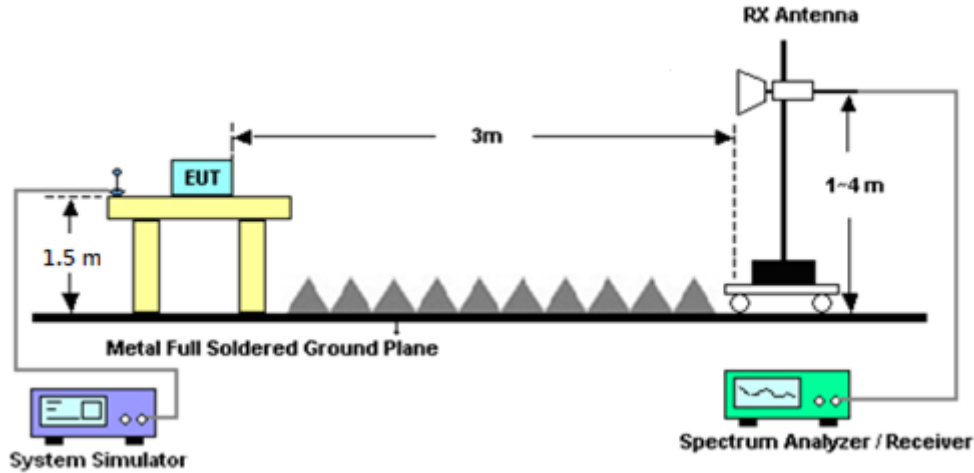
For radiated test below 30MHz



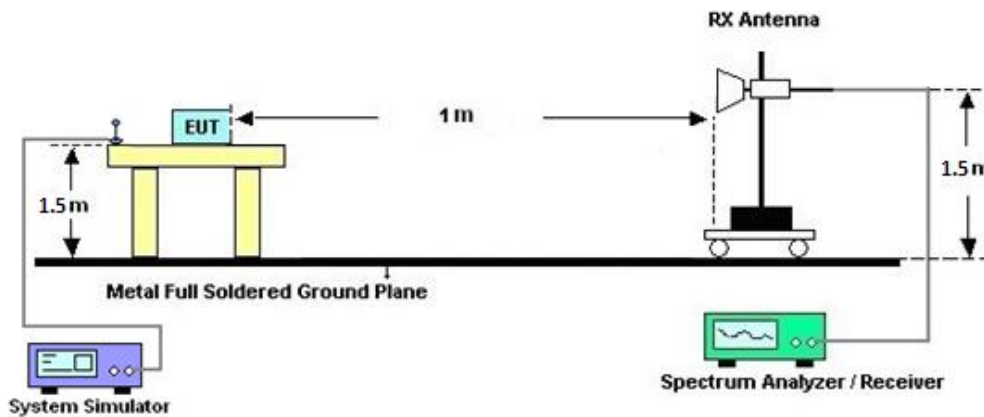
For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



For radiated test above 18GHz



### 4.3 Test Result of Radiated Test

Please refer to Appendix B.

**Note:**

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.



## **4.4 Field Strength of Spurious Radiation Measurement**

### **4.4.1 Description of Field Strength of Spurious Radiated Measurement**

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $43 + 10 \log (P)$  dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

### **4.4.2 Test Procedures**

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI / TIA-603-E Section 2.2.12.

1. The EUT is placed on a rotatable wooden table 0.8 meters for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz above the ground.
2. The EUT is set 3 meters away from the receiving antenna, which is mounted on the antenna tower.
3. The table is rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1 MHz, VBW = 3 MHz, taking record of maximum spurious emission.
6. A horn antenna is substituted in place of the EUT and is driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Take the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10.  $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
11.  $ERP \text{ (dBm)} = EIRP - 2.15$
12. The RF fundamental frequency shall be excluded against the limit line in the operating frequency band.
13. The limit line is derived from  $43 + 10\log(P)$  dB below the transmitter power P(Watts)



## 5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 07, 2022	May 08, 2022~ May 15, 2022	Jan. 06, 2023	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT-N0602	30MHz~1GHz	Oct. 09, 2021	May 08, 2022~ May 15, 2022	Oct. 08, 2022	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	37059 & 01	30MHz~1GHz	Oct. 09, 2021	May 08, 2022~ May 15, 2022	Oct. 08, 2022	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1212	1GHz ~ 18GHz	Mar. 10, 2022	May 08, 2022~ May 15, 2022	Mar. 09, 2023	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1328	1GHz~18GHz	Dec. 03, 2021	May 08, 2022~ May 15, 2022	Dec. 02, 2022	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA9170	00993	18GHz~40GHz	Nov. 30, 2021	May 08, 2022~ May 15, 2022	Nov. 29, 2022	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA9170	00993	18GHz~40GHz	Nov. 04, 2021	May 08, 2022~ May 15, 2022	Nov. 03, 2022	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 10, 2021	May 08, 2022~ May 15, 2022	Dec. 09, 2022	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 10, 2021	May 08, 2022~ May 15, 2022	Nov. 09, 2022	Radiation (03CH11-HY)
Preamplifier	Jet-Pow er	JPA0118-55-3 03	1710001800 055007	1GHz~18GHz	Jun. 16, 2021	May 08, 2022~ May 15, 2022	Jun. 15, 2022	Radiation (03CH11-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 22, 2021	May 08, 2022~ May 15, 2022	Jun. 21, 2022	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz~44GHz	Oct. 15, 2021	May 08, 2022~ May 15, 2022	Oct. 14, 2022	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	May 08, 2022~ May 15, 2022	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	May 08, 2022~ May 15, 2022	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	May 08, 2022~ May 15, 2022	N/A	Radiation (03CH11-HY)
Softw are	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	May 08, 2022~ May 15, 2022	N/A	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz-40GHz	Mar. 10, 2022	May 08, 2022~ May 15, 2022	Mar. 09, 2023	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz-30MHz	Mar. 10, 2022	May 08, 2022~ May 15, 2022	Mar. 09, 2023	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	30MHz-18GHz	Mar. 10, 2022	May 08, 2022~ May 15, 2022	Mar. 09, 2023	Radiation (03CH11-HY)
Filter	Wainw right	WHKX12-2700 -3000-18000-6 0SS	SN3	3GHz High Pass Filter	Sep. 13, 2021	May 08, 2022~ May 15, 2022	Sep. 12, 2022	Radiation (03CH11-HY)
Filter	Wainw right	WHKX12-900- 1000-15000-6 0SS	SN12	1GHz High Pass Filter	Nov. 04, 2021	May 08, 2022~ May 15, 2022	Nov. 03, 2022	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTM-303B	TP140325	N/A	Nov. 26, 2021	May 08, 2022~ May 15, 2022	Nov. 25, 2022	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTM-303B	TP200880	N/A	Sep. 30, 2021	May 08, 2022~ May 15, 2022	Sep. 29, 2022	Radiation (03CH11-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Base Station (Measure)	Rohde & Schwarz	CMU200	117995	GSM / GPRS / WCDMA / CDMA	Jul. 13, 2021	Apr. 29, 2022~ May 01, 2022	Jul. 12, 2022	Conducted (TH03-HY)



## 6 Uncertainty of Evaluation

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	3.09 dB
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### Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	3.56 dB
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### Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	4.00 dB
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## Appendix A. Test Results of Conducted Test

### Conducted Output Power(Average power & ERP / EIRP)

GSM850 Maximum Average Power [dBm] (GT - LC = 2.7 dB)					
Channel	128	189	251	ERP (dBm)	ERP (W)
Frequency	824.2	836.4	848.8		
GPRS class 8	32.10	32.20	32.10	32.75	1.8836
Limit	ERP < 7W			Result	Pass

GSM1900 Maximum Average Power [dBm] (GT - LC = 2.9 dB)					
Channel	512	661	810	EIRP (dBm)	EIRP (W)
Frequency	1850.2	1880	1909.8		
GPRS class 8	29.70	29.80	29.70	32.70	1.8621
Limit	EIRP < 2W			Result	Pass



### Appendix B. Test Results of Radiated Test

### GPRS 850

GPRS 850									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-15.77	-13	-2.77	-26.17	-19.23	3.88	9.49	H
	2472	-17.01	-13	-4.01	-31.71	-20.6	4.80	10.54	H
	3296	-23.18	-13	-10.18	-40.1	-27.65	5.55	12.18	H
	4121	-26.99	-13	-13.99	-46.81	-31.3	6.28	12.74	H
	4945	-34.10	-13	-21.10	-56.05	-37.39	7.38	12.82	H
	5769	-43.89	-13	-30.89	-67.57	-47.12	7.92	13.30	H
	6593	-43.95	-13	-30.95	-71.32	-45.63	8.27	12.10	H
	7417	-38.27	-13	-25.27	-68.2	-38.59	8.73	11.20	H
	1648	-15.72	-13	-2.72	-26.25	-19.18	3.88	9.49	V
	2472	-18.81	-13	-5.81	-33.86	-22.4	4.80	10.54	V
	3296	-22.98	-13	-9.98	-40.38	-27.45	5.55	12.18	V
	4121	-27.66	-13	-14.66	-47.33	-31.97	6.28	12.74	V
	4945	-35.92	-13	-22.92	-58.04	-39.21	7.38	12.82	V
	5769	-48.86	-13	-35.86	-72.95	-52.09	7.92	13.30	V
	6593	-46.96	-13	-33.96	-73.95	-48.64	8.27	12.10	V
	7417	-41.10	-13	-28.10	-70.94	-41.42	8.73	11.20	V



Middle	1672	-15.38	-13	-2.38	-25.9	-18.95	3.91	9.63	H
	2509	-15.25	-13	-2.25	-29.92	-18.92	4.84	10.65	H
	3345	-23.79	-13	-10.79	-40.65	-28.42	5.60	12.38	H
	4182	-30.33	-13	-17.33	-50.3	-34.66	6.32	12.80	H
	5018	-34.09	-13	-21.09	-55.98	-37.11	7.50	12.66	H
	5854	-45.19	-13	-32.19	-69.45	-48.34	7.99	13.29	H
	6691	-45.96	-13	-32.96	-73.92	-47.76	8.33	12.28	H
	7527	-40.34	-13	-27.34	-69.82	-40.73	8.77	11.31	H
	8364	-45.12	-13	-32.12	-74.68	-46	9.24	12.27	H
	1672	-15.67	-13	-2.67	-26.31	-19.24	3.91	9.63	V
	2509	-18.75	-13	-5.75	-33.83	-22.42	4.84	10.65	V
	3345	-26.93	-13	-13.93	-44.29	-31.56	5.60	12.38	V
	4182	-34.55	-13	-21.55	-54.37	-38.88	6.32	12.80	V
	5018	-33.49	-13	-20.49	-55.42	-36.51	7.50	12.66	V
	5854	-49.34	-13	-36.34	-73.69	-52.49	7.99	13.29	V
	6691	-47.81	-13	-34.81	-75.33	-49.61	8.33	12.28	V
	7527	-43.08	-13	-30.08	-72.71	-43.47	8.77	11.31	V
	8364	-47.55	-13	-34.55	-76.88	-48.43	9.24	12.27	V



Highest	1697	-17.71	-13	-4.71	-28.35	-21.4	3.94	1697	H
	2546	-18.44	-13	-5.44	-33.19	-22.29	4.87	2546	H
	3395	-25.98	-13	-12.98	-42.77	-30.68	5.64	3395	H
	4244	-31.15	-13	-18.15	-51.26	-35.44	6.36	4244	H
	5092	-32.64	-13	-19.64	-54.8	-35.39	7.53	5092	H
	5941	-39.73	-13	-26.73	-64.83	-42.64	8.06	5941	H
	6790	-45.34	-13	-32.34	-73.81	-47.09	8.40	6790	H
	7639	-43.49	-13	-30.49	-72.58	-44.19	8.82	7639	H
	1697	-16.98	-13	-3.98	-27.74	-20.67	3.94	1697	V
	2546	-18.42	-13	-5.42	-33.43	-22.27	4.87	2546	V
	3395	-24.79	-13	-11.79	-42.1	-29.49	5.64	3395	V
	4244	-33.16	-13	-20.16	-53.27	-37.45	6.36	4244	V
	5092	-34.54	-13	-21.54	-56.72	-37.29	7.53	5092	V
	5941	-47.85	-13	-34.85	-72.54	-50.76	8.06	5941	V
	6790	-47.96	-13	-34.96	-76.02	-49.71	8.40	6790	V
	7639	-43.98	-13	-30.98	-73.64	-44.68	8.82	7639	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



**GPRS 1900**

GPRS 1900									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3700	-55.30	-13	-42.30	-73.88	-61.68	5.92	12.30	H
	5550	-53.57	-13	-40.57	-77.3	-59.13	7.74	13.30	H
	7400	-48.36	-13	-35.36	-78.74	-50.84	8.72	11.20	H
									H
									H
									H
	3700	-56.11	-13	-43.11	-74.74	-62.49	5.92	12.30	V
	5550	-53.05	-13	-40.05	-77.08	-58.61	7.74	13.30	V
	7400	-48.73	-13	-35.73	-79.02	-51.21	8.72	11.20	V
									V
									V
									V
Middle	3760	-55.79	-13	-42.79	-74.47	-62.11	5.98	12.30	H
	5640	-53.78	-13	-40.78	-77.4	-59.45	7.81	13.48	H
	7520	-48.38	-13	-35.38	-78.23	-50.89	8.77	11.28	H
									H
									H
									H
	3760	-49.58	-13	-36.58	-68.36	-55.9	5.98	12.30	V
	5640	-52.93	-13	-39.93	-77.01	-58.6	7.81	13.48	V
	7520	-48.58	-13	-35.58	-78.52	-51.09	8.77	11.28	V
									V
									V
									V



Highest	3819	-42.36	-13	-29.36	-61.24	-48.59	6.03	12.26	H
	5729	-53.88	-13	-40.88	-77.7	-59.38	7.89	13.38	H
	7639	-48.43	-13	-35.43	-77.8	-51.28	8.82	11.68	H
									H
									H
									H
	3819	-44.99	-13	-31.99	-63.98	-51.22	6.03	12.26	V
	5729	-53.41	-13	-40.41	-77.66	-58.91	7.89	13.38	V
	7639	-47.82	-13	-34.82	-77.76	-50.67	8.82	11.68	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.