



TEST REPORT

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Report No.:
 KR26-SRF0170
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KCTL

1. Client

- Name : Samsung Electronics Co., Ltd.
- Address : 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
- Date of Receipt : 2026-07-22

2. Use of Report : EU-Type Examination

3. Name of Product / Model : Wi-Fi/BT Transceiver / CCAW710B

4. Manufacturer / Country of Origin : Samsung Electronics Co., Ltd. / China

5. FCC ID : A3LCCA710B

6. Date of Test : 2026-08-04 to 2026-09-09

7. Location of Test : ☒ Permanent Testing Lab ☐ On Site Testing
 (Address: 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea)

8. Test method used : 47 CRF Part 2.1091

9. Test Result : Refer to the test result in the test report

Affirmation	Tested by	Technical Manager
	Name : Jaehyun Park (Signature)	Name : Bobae Lee (Signature)

2026-09-18

Eurofins KCTL Co.,Ltd.

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REPORT REVISION HISTORY

Date	Revision	Page No
2026-09-18	Originally issued	-

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General remarks for test reports

Statement concerning the uncertainty of the measurement systems used for the tests

(may be required by the product standard or client)

☐ Internal procedure used for type testing through which traceability of the measuring uncertainty has been established:

Procedure number, issue date and title:

Calculations leading to the reported values are on file with the testing laboratory that conducted the testing.

☒ Statement not required by the standard or client used for type testing

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1. General information

Client : Samsung Electronics Co., Ltd.
 Address : 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
 Manufacturer : Samsung Electronics Co., Ltd.
 Address : 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
 Factory : Chengdu Xuguang Technology Co.,Ltd
 Address : No.86 2nd Section, Park Road, Longquanyi District, Chengdu City, Sichuan Province, P.R. China
 Laboratory : Eurofins KCTL Co.,Ltd.
 Address : 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea
 Accreditations : FCC Site Designation No: KR0040, FCC Site Registration No: 687132
 VCCI Registration No. : R-20080, G-20078, C-20059, T-20056
 CAB Identifier: KR0040
 ISED Number: 8035A
 KOLAS No.: KT231

2. Device information

Equipment under test : Wi-Fi/BT Transceiver
 Model : CCAW710B
 Modulation technique : Bluetooth(BDR/EDR) : GFSK, $\pi/4$ DQPSK, 8DPSK
 Bluetooth(BLE) : GFSK
 WIFI(802.11a/b/g/n/ac/ax) : DSSS, OFDM, OFDMA
 Number of channels : Bluetooth : 79 ch
 BLE : 40 ch
 2.4 GHz WLAN : 11 ch (20 MHz) , 2 ch (40 MHz)
 UNII 1 : 4 ch (20 MHz) , 2 ch (40 MHz)
 UNII 2A : 4 ch (20 MHz) , 2 ch (40 MHz)
 UNII 2C : 12 ch (20 MHz) , 6 ch (40 MHz)
 UNII 3 : 5 ch (20 MHz) , 2 ch (40 MHz)
 Power source : DC 5 V, 12 V
 Antenna specification : Chip antenna
 Antenna gain : BT/BLE/2.4 GHz WLAN : 1.89 dBi
 UNII 1 : 1.92 dBi
 UNII 2A : 1.96 dBi
 UNII 2C : 1.98 dBi
 UNII 3 : 1.88 dBi
 Frequency range : Bluetooth : 2 402 MHz ~ 2 480 MHz (BLE)
 2.4 GHz WLAN : 2 412 MHz ~ 2 472 MHz (802.11b/g/n/ax HT20/HE20)
 2 422 MHz ~ 2 462 MHz (802.11n HT40)
 UNII-1 : 5 180 MHz ~ 5 240 MHz (802.11a/n/ac/ax_HT20/VHT20/HE20)
 5 190 MHz ~ 5 230 MHz (802.11n/ac_HT40/VHT40)
 UNII-2A : 5 260 MHz ~ 5 320 MHz (802.11a/n/ac/ax_HT20/VHT20/HE20)
 5 270 MHz ~ 5 310 MHz (802.11n/ac_HT40/VHT40)
 UNII-2C : 5 500 MHz ~ 5 720 MHz (802.11a/n/ac/ax_HT20/VHT20/HE20)
 5 510 MHz ~ 5 710 MHz (802.11n/ac_HT40/VHT40)
 UNII-3 : 5 745 MHz ~ 5 825 MHz (802.11a/n/ac/ax_HT20/VHT20/HE20)
 5 755 MHz ~ 5 795 MHz (802.11n/ac_HT40/VHT40)
 Software version : 1.0

Hardware version : 1.0
 Test device serial No. : Conducted : 74220D2C5FE6
 Radiated : 72440D2C6002
 Operation temperature : -20 °C ~ 85 °C

2.1. Frequency/channel operations

This device contains the following capabilities:
 WLAN (11a/b/g/n/ac/ax), Bluetooth (BLE)

Ch.	Frequency (MHz)
00	2 402
...	...
19	2 440
...	...
39	2 480

Table 2.1-1 Bluetooth Low Energy

Ch.	Frequency (MHz)
01	2 412
...	...
06	2 437
...	...
11	2 462
12	2 467
13	2 472

Table 2.1-2. 802.11b/g/n HT20 mode

Ch.	Frequency (MHz)
03	2 422
...	...
06	2 437
...	...
09	2 452
10	2 457
11	2 462

Table 2.1-3. 802.11n HT40 mode

UNII 1

Ch.	Frequency (MHz)
36	5 180
40	5 200
48	5 240

UNII 2A

Ch.	Frequency (MHz)
52	5 260
56	5 280
64	5 320

UNII 2C

Ch.	Frequency (MHz)
100	5 500
120	5 600
140	5 700
144	5 720

UNII 3

Ch.	Frequency (MHz)
149	5 745
157	5 785
165	5 825

Table 2.1-4. 802.11a/n/ac/ax HT20/VHT20/HE20 mode

UNII 1

Ch.	Frequency (MHz)
38	5 190
46	5 230

UNII 2A

Ch.	Frequency (MHz)
54	5 270
62	5 310

UNII 2C

Ch.	Frequency (MHz)
102	5 510
118	5 590
134	5 670
142	5 710

UNII 3

Ch.	Frequency (MHz)
151	5 755
159	5 795

Table 2.1-5. 802.11n/ac HT40/VHT40 mode

3. RF Exposure

3.1 Regulation

This document is prepared to show compliance with the RF Exposure requirements as required in §1.1310 of the FCC rules and Regulations.

The limit for Maximum Permissible Exposure (MPE), specified in FCC §1.1310, is listed in Table 1-1. According to FCC §1.1310: the criteria listed in the following table shall be used to evaluate the environmental impact of human exposure to radio-frequency (RF) radiation as specified in §1.1307(b).

Table 1 – Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength [V/m]	Magnetic Field Strength [A/m]	Power Density [mW/cm ²]	Averaging Time [minute]
(A) Limits for Occupational / Controlled Exposure				
0.3 ~ 3.0	614	1.63	*100	6
3.0 ~ 30	1842/f	4.89/f	*900/f ²	6
30 ~ 300	61.4	0.163	1.0	6
300 ~ 1 500	/	/	f/300	6
1 500 ~ 15 000	/	/	5	6
(B) Limits for General Population / Uncontrolled Exposure				
0.3 ~ 1.34	614	1.63	*100	30
1.34 ~ 30	824/f	2.19/f	*180/f ²	30
30 ~ 300	27.5	0.073	0.2	30
300 ~ 1 500	/	/	f/1 500	30
1 500 ~ 15 000	/	/	1.0	30

f=frequency in MHz, *= plane-wave equivalent power density

Per the guidance of KDB 680106, the E-field and H-field limits shown in the table above are extended down to 100 kHz

3.2 MPE (Maximum Permissible Exposure) Prediction

Prediction of MPE limit at a given distance: Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4\pi R^2 \quad (\Rightarrow R = \sqrt{PG / 4\pi S})$$

S = power density [mW/cm²]

P = Power input to antenna [mW]

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna [cm]

3.1. Test results

Calculation Result of RF exposure (FCC)

[DC 5 V]

Maximum tune-up tolerance (Worst Case)

Mode	Frequency [MHz]	Max Tune-up Power [dBm]	Ant Gain [dBi]	Power density at 20 cm [mW/cm ²]	Limit [mW/cm ²]
Bluetooth Low Energy	2 480	7.00	1.89	0.001 54	1.00
2.4G_802.11b	2 412	18.50	1.89	0.021 76	1.00
5G_U-NII-1_802.11a	5 240	17.00	1.92	0.015 51	1.00
5G_U-NII-2a_802.11a	5 260	17.00	1.96	0.015 66	1.00
5G_U-NII-2c_802.11a	5 700	17.00	1.98	0.015 73	1.00
5G_U-NII-3_802.11a	5 745	17.00	1.88	0.015 37	1.00

[DC 12 V]

Maximum tune-up tolerance (Worst Case)

Mode	Frequency [MHz]	Max Tune-up Power [dBm]	Ant Gain [dBi]	Power density at 20 cm [mW/cm ²]	Limit [mW/cm ²]
Bluetooth Low Energy	2 480	7.00	1.89	0.001 54	1.00
2.4G_802.11b	2 412	18.50	1.89	0.021 76	1.00
5G_U-NII-1_802.11a	5 240	17.00	1.92	0.015 51	1.00
5G_U-NII-2a_802.11a	5 260	17.00	1.96	0.015 66	1.00
5G_U-NII-2c_802.11a	5 700	17.00	1.98	0.015 73	1.00
5G_U-NII-3_802.11a	5 745	17.00	1.88	0.015 37	1.00

End of test report