

RF EXPOSURE REPORT



Applicant: Compex Systems Pte Ltd
178 Paya Lebar Road #05-05 Singapore, 409030
Sierra Wireless, ULC
13811 Wireless Way, Richmond, BC V6V 3A4 Canada

Manufacturer: Compex Systems Pte Ltd
178 Paya Lebar Road #05-05 Singapore, 409030
Sierra Wireless, ULC
13811 Wireless Way, Richmond, BC V6V 3A4 Canada

EUT Description: Wireless module installed in Security Appliance

Brand Name: COMPEX

Model No.: WLE7000E5 (5G) / WLE7002E26 (2.4G & 6G) / EM9291(WWAN)

FCC ID TK4WL7000E5 / TK4WL7002E26 / N7NEM92

Date of EUT Received: Aug. 14, 2025

Issue Date: Feb. 06, 2025

Approved By

John Yeh

We hereby certify that:

The above equipment was evaluated by SGS Taiwan Ltd. The evaluation in this report is in compliance with FCC Rule Part §1.1307 & KDB 447498 D04 v01.

The results of this report relate to the specific sample identified in this report.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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Revision History

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Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.

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Contents

1	DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)	4
1.1	PRODUCT DESCRIPTION	4
1.2	EVALUATION SITE	4
1.3	ANTENNA INFORMATION:	5
1.4	RATED POWER	7
2	DETERMINATION OF MPE EXEMPTION	8
2.1	FCC	8
2.2	MULTIPLE RF SOURCES EVALUATION RESULTS	11

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1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

1.1 Product Description

EUT Description:	Wireless module installed in Security Appliance
Brand Name:	COMPEX
Model No.:	WLE7000E5 (5G) / WLE7002E26 (2.4G &6G) / EM9291(WWAN)
Platform:	Product Name: Security Appliance  CHECK POINT™ Brand Name: Model No.: T91WC

1.2 Evaluation site

Laboratory		Site Address	FCC Designation number/ Registration Number	ISED Company Number	CAB Identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	☒	No. 134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, 24803, Taiwan.	TW0027/ 891563	4620A	TW3702
	☐	No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 333 Taiwan.	TW0028/ 200037	4620E	
	☐	1F, No. 8, Alley 15, Lane 120, Sec. 1, Nei Hu Road, Nei Hu District, Taipei City, 222 Taiwan.	TW0029/ 150169	23862	

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1.3 Antenna Information:**WLAN**

Antenna Type	Antenna Part No.	Freq.	Peak Antenna Gain (dBi)
Dipole	ARY121-0277-005-00	2.4GHz	1.27
	ARY121-0277-006-00		
Dipole	ARY121-0277-007-00	5GHz	3.51
	ARY121-0277-008-00		
Dipole	ARY121-0277-005-00	5GHz	3.68
	ARY121-0277-006-00		
Dipole	ARY121-0277-005-00	6GHz	3.62
	ARY121-0277-006-00		

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Antenna Type	Antenna Part No.
Dipole	RFDPA231300SBMB802
	CKP-32513-000800-100-RS

Operating Frequency (MHz)	Peak Gain (dBi)
WCDMA/HSPA Band II	1850 ~ 1910 3.95
WCDMA/HSPA Band IV	1710 ~ 1753 3.95
WCDMA/HSPA Band V	824 ~ 849 1.98
LTE-Band 2	1850 ~ 1910 3.95
LTE-Band 4	1710 ~ 1755 3.95
LTE-Band 5	824 ~ 849 1.98
LTE-Band 7	2500 ~ 2570 3.95
LTE-Band 12	699 ~ 716 1.98
LTE-Band 13	777 ~ 787 1.98
LTE-Band 14	788 ~ 798 1.98
LTE-Band 17	704 ~ 716 1.98
LTE-Band 25	1850 ~ 1915 3.95
LTE-Band 26	824 ~ 849 1.98
LTE-Band 26 Part 90	814 ~ 824 1.98
LTE-Band 41_PC3	2496 ~ 2690 3.95
LTE-Band 41_PC2	2496 ~ 2690 3.95
LTE-Band 42_PC3	3550 ~ 3700 3.24
LTE-Band 42_PC2	3550 ~ 3700 3.24
LTE-Band 48	3550 ~ 3700 3.24
LTE-Band 66	1710 ~ 1780 3.95
LTE-Band 71	663 ~ 698 1.98
n2	1850 ~ 1910 3.95
n5	824 ~ 849 1.98
n7	2500 ~ 2570 3.95
n12	699 ~ 716 1.98
n13	777 ~ 787 1.98
n14	788 ~ 798 1.98
n25	1850 ~ 1915 3.95
n26	824 ~ 849 1.98
n26 Part 90	814 ~ 824 1.98
n30	2305 ~ 2315 3.95
n41_PC3	2496 ~ 2690 3.95
n41_PC2	2496 ~ 2690 3.95
n48	3550 ~ 3700 3.24
n66	1710 ~ 1780 3.95
n70	1695 ~ 1710 3.95
n71	663 ~ 698 1.98
n77_PC3	3300 ~ 4200 3.24
n77_PC2	3300 ~ 4200 3.24
n78_PC3	3300 ~ 3800 3.24
n78_PC2	3300 ~ 3800 3.24

Note: Antenna information is provided by the applicant.

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1.4 Rated Power

WWAN

Operating Frequency (MHz)			Max. Output Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (W)	separation distance(m)	ERPth (W)	ERP/ERPth	FCC Worst Case
WCDMA / HSPA Band II	1850	~ 1910	24.50	3.95	26.30	0.43	0.35	2.35	0.18	
WCDMA / HSPA Band IV	1710	~ 1753	24.50	3.95	26.30	0.43	0.35	2.35	0.18	
WCDMA / HSPA Band V	824	~ 849	24.50	1.98	24.33	0.27	0.35	1.29	0.21	
LTE-Band 2	1850	~ 1910	24.50	3.95	26.30	0.43	0.35	2.35	0.18	
LTE-Band 4	1710	~ 1755	24.50	3.95	26.30	0.43	0.35	2.35	0.18	
LTE-Band 5	824	~ 849	24.50	1.98	24.33	0.27	0.35	1.29	0.21	
LTE-Band 7	2500	~ 2570	24.00	3.95	25.80	0.38	0.35	2.35	0.16	
LTE-Band 12	699	~ 716	24.00	1.98	23.83	0.24	0.35	1.10	0.22	
LTE-Band 13	777	~ 787	24.50	1.98	24.33	0.27	0.35	1.22	0.22	
LTE-Band 14	788	~ 798	24.00	1.98	23.83	0.24	0.35	1.24	0.20	
LTE-Band 17	704	~ 716	24.00	1.98	23.83	0.24	0.35	1.10	0.22	
LTE-Band 25	1850	~ 1915	24.00	3.95	25.80	0.38	0.35	2.35	0.16	
LTE-Band 26	824	~ 849	24.00	1.98	23.83	0.24	0.35	1.29	0.19	
LTE-Band 26 Part 90	814	~ 824	24.00	1.98	23.83	0.24	0.35	1.28	0.19	
LTE-Band 41_PC3	2496	~ 2690	24.00	3.95	25.80	0.38	0.35	2.35	0.16	
LTE-Band 41_PC2	2496	~ 2690	26.00	3.95	27.80	0.60	0.35	2.35	0.26	
LTE-Band 42_PC3	3550	~ 3700	24.00	3.24	25.09	0.32	0.35	2.35	0.14	
LTE-Band 42_PC2	3550	~ 3700	26.00	3.24	27.09	0.51	0.35	2.35	0.22	
LTE-Band 48	3550	~ 3700	24.00	3.24	25.09	0.32	0.35	2.35	0.14	
LTE-Band 66	1710	~ 1780	24.50	3.95	26.30	0.43	0.35	2.35	0.18	
LTE-Band 71	663	~ 698	24.00	1.98	23.83	0.24	0.35	1.04	0.23	
n2	1850	~ 1910	25.50	3.95	27.30	0.54	0.35	2.35	0.23	
n5	824	~ 849	25.50	1.98	25.33	0.34	0.35	1.29	0.26	
n7	2500	~ 2570	25.50	3.95	27.30	0.54	0.35	2.35	0.23	
n12	699	~ 716	25.50	1.98	25.33	0.34	0.35	1.10	0.31	
n13	777	~ 787	25.50	1.98	25.33	0.34	0.35	1.22	0.28	
n14	788	~ 798	25.50	1.98	25.33	0.34	0.35	1.24	0.28	
n25	1850	~ 1915	25.50	3.95	27.30	0.54	0.35	2.35	0.23	
n26	824	~ 849	25.50	1.98	25.33	0.34	0.35	1.29	0.26	
n26 Part 90	814	~ 824	25.50	1.98	25.33	0.34	0.35	1.28	0.27	
n30	2305	~ 2315	25.50	3.95	27.30	0.54	0.35	2.35	0.23	
n41_PC3	2496	~ 2690	25.50	3.95	27.30	0.54	0.35	2.35	0.23	
n41_PC2	2496	~ 2690	27.50	3.95	29.30	0.85	0.35	2.35	0.36	V
n48	3550	~ 3700	25.50	3.24	26.59	0.46	0.35	2.35	0.19	
n66	1710	~ 1780	25.50	3.95	27.30	0.54	0.35	2.35	0.23	
n70	1695	~ 1710	25.50	3.95	27.30	0.54	0.35	2.35	0.23	
n71	663	~ 698	25.50	1.98	25.33	0.34	0.35	1.04	0.33	
n77_PC3	3300	~ 4200	25.50	3.24	26.59	0.46	0.35	2.35	0.19	
n77_PC2	3300	~ 4200	27.50	3.24	28.59	0.72	0.35	2.35	0.31	
n78_PC3	3300	~ 3800	25.50	3.24	26.59	0.46	0.35	2.35	0.19	
n78_PC2	3300	~ 3800	27.50	3.24	28.59	0.72	0.35	2.35	0.31	

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2 DETERMINATION OF MPE EXEMPTION

2.1 FCC

2.1.1 Single RF Source

As per §1.1307(b)(3)(i),

- (A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);
- (B) Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by:

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

Where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$$

and

$$ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

d = the separation distance (cm);

Note: when 10-g extremity SAR applies, SAR test exemption may be considered by applying a factor of 2.5 to the SAR-based exemption thresholds.

- (C) Or using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

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Table 1 to § 1.1307(b)(3)(i)(C) –

Single RF Sources Subject to Routine Environmental Evaluation

RF Source frequency (MHz)			Minimum Distance			Threshold ERP (W)
fL		fH	$\lambda L / 2\pi$		$\lambda H / 2\pi$	
0.3	-	1.34	159m	-	35.6m	1920 R ²
1.34	-	30	35.6m	-	1.6m	3450 R ² /f ²
30	-	300	1.6m	-	159mm	3.83 R ²
300	-	1500	159mm	-	31.8mm	0.0128 R ² f
1500	-	100000	31.8mm	-	0.5mm	19.2R ²

R= minimum separation distance in meter

f = frequency in MHz

2.1.2 Multiple RF Sources

In the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} \leq 1$$

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2.1.3 Single RF Source Evaluation Results

Ant 1	Frequency (MHz)	Max. tune-up power (dBm)	Peak gain (dBi)	ERP (dBm)	ERP (W)	Permissible Minimum separation distance ($\lambda/2\pi$) (m)	R = actual Minimum separation distance(m)	ERP _{th} (W)	ERP/ERP _{th}	Pass / Fail
WiFi 2.4GHz	2442	18.17	1.27	17.29	0.054	0.0196	0.350	2.352	0.023	Pass
WiFi 5GHz	5280	19.18	3.68	20.71	0.118	0.0090	0.350	2.352	0.050	Pass
WiFi 6GHz	7125	15.38	3.62	16.85	0.048	0.0067	0.350	2.352	0.021	Pass

Ant 2	Frequency (MHz)	Max. tune-up power (dBm)	Peak gain (dBi)	ERP (dBm)	ERP (W)	Permissible Minimum separation distance ($\lambda/2\pi$) (m)	R = actual Minimum separation distance(m)	ERP _{th} (W)	ERP/ERP _{th}	Pass / Fail
WiFi 2.4GHz	2442	17.96	1.27	17.08	0.051	0.0196	0.350	2.352	0.022	Pass
WiFi 5GHz	5580	19.37	3.68	20.9	0.123	0.0086	0.350	2.352	0.052	Pass
WiFi 6GHz	7125	15.45	3.62	16.92	0.049	0.0067	0.350	2.352	0.021	Pass

Ant 3	Frequency (MHz)	Max. tune-up power (dBm)	Peak gain (dBi)	ERP (dBm)	ERP (W)	Permissible Minimum separation distance ($\lambda/2\pi$) (m)	R = actual Minimum separation distance(m)	ERP _{th} (W)	ERP/ERP _{th}	Pass / Fail
WiFi 5GHz	5320	19.47	3.51	20.83	0.121	0.0090	0.350	2.352	0.051	Pass

Ant 4	Frequency (MHz)	Max. tune-up power (dBm)	Peak gain (dBi)	ERP (dBm)	ERP (W)	Permissible Minimum separation distance ($\lambda/2\pi$) (m)	R = actual Minimum separation distance(m)	ERP _{th} (W)	ERP/ERP _{th}	Pass / Fail
WiFi 5GHz	5280	19.07	3.51	20.43	0.110	0.0090	0.350	2.352	0.047	Pass

WWAN	Frequency (MHz)	Max. tune-up power (dBm)	Peak gain (dBi)	ERP (dBm)	ERP (W)	Permissible Minimum separation distance ($\lambda/2\pi$) (m)	R = actual Minimum separation distance(m)	ERP _{th} (W)	ERP/ERP _{th}	Pass / Fail
n41_PC2	2496	27.5	3.95	29.3	0.851	0.0191	0.350	2.352	0.362	Pass

Conclusion: Source-base time average power is below Exemption Criteria and/or Routine Evaluation MPE thresholds, therefore the device is compliant FCC RF exposure requirement.

Note: For conservativeness, the lowest uplink frequency of each band is used to determine the minimum separation distance of that band. All the single RF source results (P or ERP) are less than their corresponding threshold (P_{th} or ERP_{th}), so they are exempt from RF exposure testing.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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2.2 Multiple RF Sources Evaluation Results

Simultaneous transmission modes	$\Sigma ERP/ERP_{th}$	Criteria	Pass / Fail
WLAN 2.4G_Ant 1	0.649	1	Pass
WLAN 5G_Ant 1			
WLAN 6G_Ant 1			
WLAN 2.4G_Ant 2			
WLAN 5G_Ant 2			
WLAN 6G_Ant 2			
WLAN 5G_Ant 3			
WLAN 5G_Ant 4			
WWAN			

Note:

1. $\Sigma(ERP/ERP_{th})$: This is a summation of [(ERP of RF source / exemption threshold ERP for RF source)].

Considering the collocated transmitters, the aggregated (ERP/ERP_{th}) is smaller than 1, and MPE of collocated transmitters is compliant

~ End of Report ~

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