

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200479506

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Test Report

Application No.: SZCR2412004795AT
Applicant: Skyhigh Tech LLC
Address of Applicant: 1209 Orange Street, Wilmington, 19801
Manufacturer: Skyhigh Tech LLC
Address of Manufacturer: 1209 Orange Street, Wilmington, 19801
Equipment Under Test (EUT):
EUT Name: Talos T60X
Model No.: Talos T60X
FCC ID: 2BLZI-T60X2411
Standard(s) : FCC Rules 47 CFR §2.1091
 KDB 447498 D04 interim General RF Exposure Guidance v01
Date of Receipt: 2024-12-20
Date of Test: 2025-02-27 to 2025-04-01
Date of Issue: 2025-04-08

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu

Keny Xu
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-04-08		Original

Authorized for issue by:				
		Darren Yuan		
		Darren Yuan/Project Engineer		
		Eric Fu		
		Eric Fu/Reviewer		



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2 General Information

2.1 General Description of E.U.T.

Product Type:	☐ Portable device
	☒ Mobile device
	☐ Fixed device

2.2 Details of E.U.T.

Power supply:	Powered by Lithium-Ion Polymer Rechargeable Battery Battery information Model: BAX801-40000mAh-52.22V Nominal Voltage: 52.22V Rated Capacity: 40000mAh, 2088.8Wh				
2.4G Wi-Fi:					
Operation Frequency:	802.11g: 2437MHz				
Operation Frequency:	802.11g: 2437MHz				
Modulation Type:	802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK)				
Number of Channels:	1				
Antenna Type:	Dipole Antenna				
Antenna Gain:	ANT0	ANT1	ANT2	ANT3	
	2.6dBi	3.18dBi	2.6dBi	3.18dBi	



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2.4G SDR	
Operation Frequency:	1.4MHz mode A: 2403.5MHz-2467.5MHz(33channel) 1.4MHz mode B: 2405.12MHz-2469.12MHz(33channel) 3MHz mode A: 2405.5MHz-2465.5MHz(21channel) 3MHz mode B: 2408.2MHz-2468.2MHz(21channel) 5MHz mode A: 2404.5MHz-2469.5MHz(14channel) 10MHz mode A: 2407.5MHz-2467.5MHz(61channel) 20MHz mode A: 2412.5MHz-2462.5MHz(51channel) 40MHz mode A: 2422.5MHz-2452.5MHz(31channel) 60MHz mode A: 2432.5MHz-2442.5MHz(11channel)
Channel Spacing:	1.4MHz mode A: 2MHz 1.4MHz mode B: 2MHz 3MHz mode A: 3MHz 3MHz mode B: 3MHz 5MHz mode A: 5MHz 10MHz mode A: 1MHz 20MHz mode A: 1MHz 40MHz mode A: 1MHz 60MHz mode A: 1MHz
Modulation Type:	OFDM
Antenna Type:	Dipole Antenna
Antenna Gain:	Ant 0: 2.6dBi; Ant 1: 3.18dBi; Ant 2: 2.6dBi; Ant 3: 3.18dBi



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5.8G SDR	
Operation Frequency:	1.4MHz mode A: 5728.5MHz-5844.5MHz(59channel) 1.4MHz mode B: 5730.12MHz-5846.12MHz(59channel) 3MHz mode A: 5727.5MHz-5844.5MHz(40channel) 3MHz mode B: 5730.2MHz-5847.2MHz(40channel) 5MHz mode A: 5732.5MHz-5842.5MHz(23channel) 10MHz mode A: 5730.5MHz-5844.5MHz(115channel) 20MHz mode A: 5735.5MHz-5839.5MHz(105channel) 40MHz mode A: 5745.5MHz-5829.5MHz(85channel) 60MHz mode A: 5755.5MHz-5819.5MHz(65channel) 80MHz mode A: 5765.5MHz-5809.5MHz(45channel)
Modulation Type:	OFDM
Channel Spacing:	1.4MHz mode A: 2MHz 1.4MHz mode B: 2MHz 3MHz mode A: 3MHz 3MHz mode B: 3MHz 5MHz mode A: 5MHz 10MHz mode A: 1MHz 20MHz mode A: 1MHz 40MHz mode A: 1MHz 60MHz mode A: 1MHz 80MHz mode A: 1MHz
Antenna Type:	Dipole Antenna
Antenna Gain:	Ant 0: 3.1dBi; Ant 1: 2.51dBi; Ant 2: 3.1dBi; Ant 3: 2.51dBi

24G Radar		
Operation Frequency:	24.05-24.25GHz	
Modulation:	FMCW	
Antenna Type:	Phased Array Antenna	
Antenna Gain:	Forward Phased	Omnidirectional Radar Antenna: 10dBi
	Array Radar	Upward Radar Antenna: 10dBi
	Rear Phased Array Radar Antenna: 10dBi	



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Separation Distance

Minimum test separation distance:	20cm
Remark: This minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander.	



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2.3 Test Location

All tests were performed at:

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Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

2.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.



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3 FCC Radiofrequency radiation exposure limits

According to §1.1310, the limit for general population/uncontrolled exposures

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
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
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30



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4 Measurement and Calculation

Standalone transmission:

Mode	Maximum EIRP (dBm)	Power Density (mW/cm ²)	Limit of Power Density (mW/cm ²)	Ratio	Verdict
2.4G Wi-Fi	33	0.3971	1.000	0.397	Pass
2.4G SDR	33	0.3971	1.000	0.397	Pass
5.8G SDR	33	0.3971	1.000	0.397	Pass
Omnidirectional Radar	20	0.0199	1.000	0.020	Pass
Upward Radar	20	0.0199	1.000	0.020	Pass
Rear Phased Array Radar	20	0.0199	1.000	0.020	Pass

Note: The maximum EIRP refer to the user manual.

Simultaneous transmission

Test Mode	2.4G Wi-Fi	2.4G SDR	5.8G SDR	Omnidirectional Radar	Upward Radar	Rear Phased Array Radar	Total Ratio	Limit	Verdict
Maximum Ratio	0.397	0.397	0.397	0.020	0.020	0.020	N/A	N/A	N/A
Scenario 1	☒		☒	☒	☒	☒	0.854	1.0	Pass
Scenario 2		☒		☒	☒	☒	0.457	1.0	Pass
Scenario 3			☒	☒	☒	☒	0.457	1.0	Pass

The EUT meet the Exemption Limits for Routine Evaluation – SAR Evaluation, so no SAR evaluation is required for the EUT.

- End of the Report -