



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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250200073402

Page: 1 of 8

SAR Evaluation Report

Application No.: SZCR2502000734AT
Applicant: Traxxas LP
Address of Applicant: 6250 Traxxas Way McKinney, Texas 75070, United States
Manufacturer: Traxxas LP
Address of Manufacturer: 6250 Traxxas Way McKinney, Texas, 75070, USA
Equipment Under Test (EUT):
EUT Name: Long Range TQ Transmitter
Model No.: 6567, 6568 ♣
♣ Please refer to section 4.1 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark: Traxxas
FCC ID: XVE-TRX1030
Standards: 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General RF Exposure Guidance v06
Date of Receipt: 2025-02-28
Date of Test: 2025-02-28 to 2025-03-03
Date of Issue: 2025-03-04

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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Shenzhen Branch EMC Laboratory

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2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-03-04		Original

Authorized for issue by:				
				
		Bill Chen/Project Engineer		
				
		Eric Fu/Reviewer		



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4 General Information

4.1 General Description of EUT

Power Supply:	DC6.0V(4 x 1.5V"AA"Batteries)
Operation Frequency:	2406MHz to 2453MHz
Modulation Type:	GFSK
Channel Spacing:	1MHz
Number of Channels:	48
Antenna Gain:	0dBi
Antenna Type:	PCB Antenna

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

Remark:

Model No: 6567, 6568

The model 6568 was only tested. Since the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on model name and below details.

Model No.	6567	6568
Differences	Main – 2 Channels (2 control switches)	Main – 3 Channels (3 control switches)



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4.2 Test Location

All tests were performed at:

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No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.

4.3 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.

4.4 Deviation from Standards

None.

4.5 Abnormalities from Standard Conditions

None.

4.6 Other Information Requested by the Customer

None.



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5 Equipment List

Average Power					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	AUDIX	N/A	SEM001-08	2022-05-14	2025-05-13
EXA Signal Analyzer	KEYSIGHT	N9010A	SEM004-09	2024-03-04	2025-03-03
DC Power Supply	KEYSIGHT	E3642A	SEM011-07	2025-02-26	2026-02-25
Manual Step Attenuator	KEYSIGHT	8494B	SEM021-05	2024-03-04	2025-03-03
Manual Step Attenuator	KEYSIGHT	8496B	SEM021-06	2024-03-04	2025-03-03
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2024-03-04	2025-03-03
Power Sensor	TST PASS	TSPS2023R	SEM009-27	2024-03-04	2025-03-03
Power Sensor	TST PASS	TSPS2023R	SEM009-28	2024-03-04	2025-03-03
Power Sensor	TST PASS	TSPS2023R	SEM009-29	2024-03-04	2025-03-03

6 SAR Evaluation

6.1 RF Exposure Compliance Requirement

6.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

6.1.2 Limits



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The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$\left[\frac{(\text{max. power of channel, including tune-up tolerance, mW})}{(\text{min. test separation distance, mm})} \right] \cdot \sqrt{f(\text{GHz})} \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

6.1.3 EUT RF Exposure

Average Power:

Test Mode	Test Channel	Ant	Max. AV Power[dBm]
2.4G	2406	Ant1	5.86
2.4G	2429	Ant1	5.20
2.4G	2453	Ant1	4.85

2406MHz



2429MHz



2453MHz



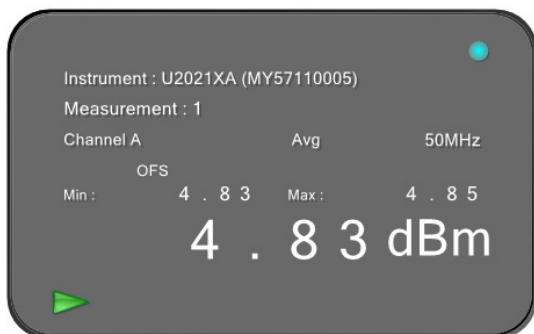
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The Max. AV power (including tune-up tolerance) is 5.86 dBm on the lowest channel 2.406 GHz (*)
5.86 dBm logarithmic terms convert to numeric result is nearly 3.85 mW
According to the formula. calculate the test exclusion thresholds:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot$$

$$[v_f(\text{GHz})]$$

$$\text{General RF Exposure} = (3.85 \text{ mW} / 5 \text{ mm}) \times \sqrt{2.406 \text{ GHz}} = 1.19 \quad (1)$$

SAR requirement:

$$S = 3.0 \quad (2)$$

$$(1) < (2)$$

So the SAR report is not required.

(*) Max. power refer to Report No.:SZCR250200073402

- End of the Report -

