



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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200483203

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# RF Exposure Evaluation Report

**Application No.:** SZCR2412004832AT  
**Applicant:** GME Pty Ltd  
**Address of Applicant:** 17 Gibbon Rd, Winston Hills NSW 2153, Australia  
**Manufacturer:** GME Pty Ltd  
**Address of Manufacturer:** 17 Gibbon Rd, Winston Hills NSW 2153, Australia  
**Factory:** GME Pty Ltd  
**Address of Factory:** 17 Gibbon Rd, Winston Hills NSW 2153, Australia  
**Equipment Under Test (EUT):**  
**EUT Name:** GME XRS-330C-U, GME XRS-390C-U  
**Item No.:** XRS-330C-U, XRS-390C-U ♣  
♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.  
**FCC ID:** TXJ-XRS330CU  
**Standards:** 47 CFR Part 1.1307, 47 CFR Part 1.1310, 47 CFR Part 2.1091  
**Date of Receipt:** 2024-12-30  
**Date of Test:** 2024-12-30 to 2025-03-07  
**Date of Issue:** 2025-03-10

<b>Test Result :</b>	<b>PASS*</b>
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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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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-03-10		Original

Authorized for issue by:				
				
		Edison Li/Project Engineer		
				
		Eric Fu/Reviewer		



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### 3 General Information

#### 3.1 General Description

Power supply:	DC 12V
Operation Frequency:	See below table
Modulation Type:	FM
Emission Type:	F3E
Channel Spacing:	12.5KHz
Channel Number:	23
Series Number:	XRS-330C-U:40912570
Firmware:	v1.67
HW:	7
Antenna Type:	Omni-directional antenna
Antenna Gain:	AE4704B-U antenna:2.1dBi, AE4705B-U antenna:6.7dBi, AE4702B-U antenna:6.6dBi, AE4707B-U antenna:2.1dBi



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### Channel Lists:

Channel Number	Tx Frequency (MHz)	Tx Power (W)	Remark
1	462.5625	5	462 MHz Interstitial Channels
2	462.5875	5	
3	462.6125	5	
4	462.6375	5	
5	462.6625	5	
6	462.6875	5	
7	462.7125	5	
8	462.550	5	462 MHz Main Channels
9	462.575	5	
10	462.600	5	
11	462.625	5	
12	462.650	5	
13	462.675	5	
14	462.700	5	
15	462.725	5	467 MHz Main Channels
16	467.550	5	
17	467.575	5	
18	467.600	5	
19	467.625	5	
20	467.650	5	
21	467.675	5	
22	467.700	5	
23	467.725	5	



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Details of Bluetooth Module*:	
Operation Frequency Range:	2402-2480MHz
Bluetooth Version:	V5.0
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK for BT Classic GFSK for BT LE
Number of Channels:	79 for BT Classic 40 for BT LE
Antenna Type:	Integral Chip Antenna
Antenna Gain:	1.63dBi

\*: The module approval by FCC(FCC ID:A8TBM78ABCDEFGH), Grant at 09/24/2015.

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.



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### 3.2 Test Location

All tests were performed at:

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No tests were sub-contracted.

### 3.3 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.

### 3.4 Deviation from Standards

None.

### 3.5 Abnormalities from Standard Conditions

None.



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## 4 RF Exposure Evaluation

### 4.1 RF Exposure Compliance Requirement

#### 4.1.1 Limits

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(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 <sup>2</sup> )	Averaging time (minutes)
<b>(A) Limits for Occupational/Controlled Exposures</b>				
0.3–3.0 .....	614	1.63	*(100)	6
3.0–30 .....	1842/f	4.89/f	*(900/f <sup>2</sup> )	6
30–300 .....	61.4	0.163	1.0	6
300–1500 .....	.....	.....	f/300	6
1500–100,000 .....	.....	.....	5	6
<b>(B) Limits for General Population/Uncontrolled Exposure</b>				
0.3–1.34 .....	614	1.63	*(100)	30
1.34–30 .....	824/f	2.19/f	*(180/f <sup>2</sup> )	30
30–300 .....	27.5	0.073	0.2	30
300–1500 .....	.....	.....	f/1500	30
1500–100,000 .....	.....	.....	1.0	30

F= Frequency in MHz

Friis Formula

Friis transmission formula:  $P_d = (P_{out} * G) / (4 * \pi * R^2)$

Where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = output power to antenna in mW

G = gain of antenna in linear scale

$\pi$  = 3.1416

For Uncontrolled Environment, the MPE limit of 300MHz to 1500MHz is f/1500 mW/cm<sup>2</sup>. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

#### 4.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.



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### 4.1.3 EUT RF Exposure Evaluation

#### 1) Test Results

The max tune-up tolerance power Into AE4704B-U Antenna & RF Exposure Evaluation Distance:

Type	Test Freq. (MHz)	Max Antenna Gain (dBi)	Max Antenna Gain (Numeric)	Max tune-up tolerance power (dBm)	Max tune-up Tolerance power to Antenna (mW)	Power Density at R=80cm (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Result
UHF Band	462.55	2.1	1.62	36.99	5000.00	0.1008	0.3084	PASS

The max tune-up tolerance power Into AE4705B-U Antenna & RF Exposure Evaluation Distance:

Type	Test Freq. (MHz)	Max Antenna Gain (dBi)	Max Antenna Gain (Numeric)	Max tune-up tolerance power (dBm)	Max tune-up Tolerance power to Antenna (mW)	Power Density at R=80cm (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Result
UHF Band	462.55	6.7	4.68	36.99	5000.00	0.2908	0.3084	PASS

The max tune-up tolerance power Into AE4702B-U Antenna & RF Exposure Evaluation Distance:

Type	Test Freq. (MHz)	Max Antenna Gain (dBi)	Max Antenna Gain (Numeric)	Max tune-up tolerance power (dBm)	Max tune-up Tolerance power to Antenna (mW)	Power Density at R=80cm (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Result
UHF Band	462.55	6.6	4.57	36.99	5000.00	0.2842	0.3084	PASS

The max tune-up tolerance power Into AE4707B-U Antenna & RF Exposure Evaluation Distance:

Type	Test Freq. (MHz)	Max Antenna Gain (dBi)	Max Antenna Gain (Numeric)	Max tune-up tolerance power (dBm)	Max tune-up Tolerance power to Antenna (mW)	Power Density at R=80cm (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Result
UHF Band	462.55	2.1	1.62	36.99	5000.00	0.1008	0.3084	PASS

Note: Refer to report No. SZCR241200483202 for EUT test Max Conducted Peak Output Power value.

The distancer (4th column) calculated from the Fries transmission formula is far greater than 80 cm separation requirement, the MPE limit of 300MHz to 1500MHz is f/1500 mW/cm<sup>2</sup>.



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For Bluetooth module

Type	Test Freq. (MHz)	Max Antenna Gain (dBi)	Max Antenna Gain (Numeric)	Max tune-up tolerance power (dBm)	Max tune-up Tolerance power to Antenna (mW)	Power Density at R=80cm (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Result
BT	2441	1.63	1.46	2.3	1.70	0.000031	1.0000	PASS

### Simultaneous transmission

Test Mode	BT/BLE	UHF/ AE4704B-U Antenna	Total Ratio	Limit	Result
Ratio	0.000031	0.3270	N/A	N/A	N/A
Scenario 1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0.3270	1.0	Pass

Test Mode	BT/BLE	UHF/ AE4705B-U Antenna	Total Ratio	Limit	Result
Ratio	0.000031	0.9430	N/A	N/A	N/A
Scenario 2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0.9430	1.0	Pass

Test Mode	BT/BLE	UHF/ AE4702B-U Antenna	Total Ratio	Limit	Result
Ratio	0.000031	0.9215	N/A	N/A	N/A
Scenario 3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0.9215	1.0	Pass

Test Mode	BT/BLE	UHF/ AE4707B-U Antenna	Total Ratio	Limit	Result
Ratio	0.000031	0.3270	N/A	N/A	N/A
Scenario 4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0.3270	1.0	Pass

Since the SAR Exclusion Threshold Level is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.

-End of Report-



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