

Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/2

Report No.: FYCR260600018304

Page: 1 of 29

TEST REPORT

Application No.: FYCR2606000183AT
Applicant: E.J. Brooks Company
Address of Applicant: 1 Stoffel Drive Tallapoosa Georgia 30176 United States
Manufacturer: Shenzhen Omni Intelligent Technology Co., LTD
Address of Manufacturer: 11th Floor Block 31, Lianchuang Technical Zone, Bulan Road, Longgang District, Shenzhen, China. 518112
Factory: Shenzhen Omni Intelligent Technology Co., LTD
Address of Factory: 11th Floor Block 31, Lianchuang Technical Zone, Bulan Road, Longgang District, Shenzhen, China. 518112
EUT Name: TITANSecure
Model No.: TS-100
Trade Mark: TITANSecure
FCC ID: 2BU3DTS100
Standards: 47 CFR Part 2
47 CFR Part 22H
47 CFR Part 24E
47 CFR Part 27
47 CFR Part 90
ANSI C63.26: 2015
Date of Receipt: 2026-06-29
Date of Test: 2026-07-17 to 2026-09-15
Date of Issue: 2026-09-22

Test Result:	PASS *
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* In the configuration tested, the EUT detailed in this report complied with the standards specified above.



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SZCCS-TRF-01 Rev. A/2

Report No.: FYCR260600018304

Page: 2 of 29

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2026-09-22		Original

Authorized for issue by:				
		Byron Liang		
		Byron Liang/Project Engineer		
		Tree Zhan		
		Tree Zhan/Reviewer		

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Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/2

Report No.: FYCR260600018304

Page: 3 of 29

1 Test Summary

1.1 LTE Band 5/26(824~849 MHz)

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §22.913(a)(5)	ERP ≤ 7 W	Refer to the Appendixs	Pass
Peak-Average Ratio	§22.913(d)	Limit≤13 dB		Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		Pass
Band Edges Compliance	§2.1051, §22.917(a)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.		Pass
Spurious Emission at Antenna Terminals	§2.1051, §22.917(a)	FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges.		Pass
Field Strength of Spurious Radiation	§2.1053, §22.917(a)	FCC: ≤ -13 dBm/100 kHz.		Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §22.355	±2.5ppm.		Pass



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SZCCS-TRF-01 Rev. A/2

Report No.: FYCR260600018304

Page: 4 of 29

1.2 LTE Band 2 /25

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §24.232(c)	EIRP ≤ 2 W	Refer to the Appendixs	Pass
Peak-Average Ratio	§24.232(d)	Limit ≤ 13 dB		Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		Pass
Band Edges Compliance	§2.1051, §24.238(a)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.		Pass
Spurious Emission at Antenna Terminals	§2.1051, §24.238(a)	≤ -13 dBm/1 MHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges.		Pass
Field Strength of Spurious Radiation	§2.1053, §24.238(a)	≤ -13 dBm/1 MHz.		Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §24.235	Within authorized bands of operation/frequency block.		Pass



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SZCCS-TRF-01 Rev. A/2

Report No.: FYCR260600018304

Page: 5 of 29

1.3 LTE Band 4 /66

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(d)(4)	EIRP ≤ 1 W	Refer to the Appendixs	Pass
Peak-Average Ratio	§27.50(d)(5)	Limit≤13 dB		Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		Pass
Band Edges Compliance	§2.1051, §27.53(h)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.		Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(h)	≤ -13 dBm/1 MHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges.		Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(h)	≤ -13 dBm/1 MHz.		Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	Within authorized bands of operation/frequency block.		Pass



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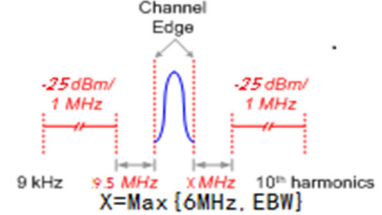
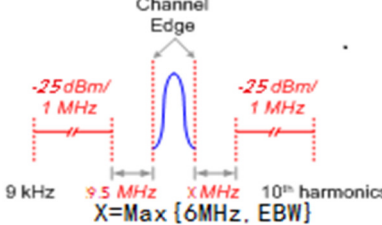
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SZCCS-TRF-01 Rev. A/2

Report No.: FYCR260600018304

Page: 6 of 29

1.4 LTE Band 41

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(h)(2)	EIRP ≤ 2W	Refer to the Appendixs	Pass
Peak-Average Ratio	---	≤13 dB		Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		Pass
Band Edges Compliance	§2.1051, §27.53(m)(4)	For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz.		Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(m)			Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(m)			Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	Within authorized bands of operation/frequency block.		Pass



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SZCCS-TRF-01 Rev. A/2

Report No.: FYCR260600018304

Page: 7 of 29

1.5 LTE Band 12

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §27.50(c)(10)	ERP ≤ 3 W.	Refer to the Appendixs	Pass
Peak-Average Ratio	---	Limit≤13 dB		Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		Pass
Band Edges Compliance	§2.1051, §27.53(g)	≤ 43+10log10(P[Watts])		Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(g)	≤ 43+10log10(P[Watts])		Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	FCC: ≤ -13 dBm/100 kHz.		Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	Within authorized bands of operation/frequency block.		Pass



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SZCCS-TRF-01 Rev. A/2

Report No.: FYCR260600018304

Page: 8 of 29

1.6 LTE Band 13

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(b)(10)	ERP ≤ 3 W.	Refer to the Appendixs	Pass
Peak-Average Ratio	---	Limit ≤ 13 dB		Pass
Bandwidth	§2.1049,	OBW: No limit. EBW: No limit.		Pass
Band Edges Compliance	§2.1051, §27.53(c)	≤ 43 + 10 log ₁₀ (P[Watts])		Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(c) §27.53(f)	≤ -13 dBm/100 kHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges. On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations. For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.		Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(c) §27.53(f)	FCC: ≤ -13 dBm/100 kHz. For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.		Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	Within authorized bands of operation/frequency block.		Pass



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SZCCS-TRF-01 Rev. A/2

Report No.: FYCR260600018304

Page: 9 of 29

1.7 LTE Band 26(814~824 MHz)

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Transmitter Conducted Power Output	§2.1046, §90.635(b)	< 100 W.	Refer to the Appendixs	Pass
Peak-Average Ratio	---	Limit≤13 dB		Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		Pass
Emission Mask	§2.1051 § 90.691(a)	For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50+10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.		Pass
Spurious Emission at Antenna Terminals	§2.1051, §90.691	< 43 + 10Log10(P[Watts]) for all out-of-band emissions		Pass
Field Strength of Spurious Radiation	§2.1053, §90.691	< 43 + 10Log10(P[Watts]) for all out-of-band emissions		Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §90.213	Within authorized bands of operation/frequency block.		Pass



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SZCCS-TRF-01 Rev. A/2

Report No.: FYCR260600018304

Page: 10 of 29

Note 1: This host product using a certified module (FCC ID: 2AJYU-8PYA008). The host integrator declares that they have followed the integration instructions provided by the module manufacturer and ensures that the end product complies with the FCC requirements by a technical evaluation to include the FCC Rules and KDB Publication 996369. In this report, the testing is performed with the host product configured in typical operational modes to check the spurious emissions for compliance with all the applicable rules, other test data please refer to original module test report No.

STS2111043W01.

Remark:

Model No.: TS-100

This test report (Ref. No.: FYCR260600018304) is only valid with the modular test report (Ref. No.: STS2111043W01)

According to the declaration from the applicant, the LTE module used in this report and the one in original report were identical (model No.: SIM7600G).

Therefore in this report Field Strength of Spurious Radiation was fully retested on model and shown the data in this report, other tests please refer to modular test report STS2111043W01.



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2 Contents

1	Test Summary	3
1.1	LTE Band 5/26(824~849 MHz)	3
1.2	LTE Band 2 /25	4
1.3	LTE Band 4 /66	5
1.4	LTE Band 41	6
1.5	LTE Band 12	7
1.6	LTE Band 13	8
1.7	LTE Band 26(814~824 MHz)	9
2	Contents.....	11
3	General Information	12
3.1	General Description of EUT	12
3.2	Test Mode	13
3.3	Test Environment	13
3.4	Description of Support Units	13
3.5	Measurement Uncertainty	14
3.6	Test Location	15
3.7	Test Facility	15
3.8	Test Engineer	15
3.9	Technical Specification	16
3.10	Equipment List	17
3.11	Test Frequencies	18
4	Description of Tests.....	25
4.1	Field Strength of Spurious Radiation	25
4.2	Test Setups	27
4.2.1	Test Setup 1	27
4.3	Test Conditions	28
5	Appendixes.....	29



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SZCCS-TRF-01 Rev. A/2

Report No.: FYCR260600018304

Page: 12 of 29

3 General Information

3.1 General Description of EUT

Hardware Version:	V1.0		
Software Version:	64 V1.0.7C LF		
Power Supply:	Lithium Ion Battery: DC 3.7V 10000mAh rechargeable battery which charged by USB port		
IMEI:	RF Conducted		
	RSE	867782073760204	
Antenna Type:	☐ External, ☒ Integrated		
	LTE Band 2:	1.65dBi	LTE Band 4: 0.77dBi
	LTE Band 5:	-4.63dBi	LTE Band 12: -0.75dBi
	LTE Band 13:	-3.82dBi	LTE Band 25: 1.65dBi
	LTE Band 26:	-2.29dBi	LTE Band 41: 0.68dBi
	LTE Band 66:	0.77dBi	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.		
RF Cable*:	☒ Provided by client		
	0.5dB(0.6~1GHz)	0.8dB(1.4~2GHz)	1.0dB(2.1~2.7GHz)
	1.5dB(3~4GHz)	1.8dB(4.4~6GHz)	
Remark:	As above information is provided and confirmed by the applicant. CCS is not liable to the accuracy, suitability, reliability or/and integrity of the information.		



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SZCCS-TRF-01 Rev. A/2

Report No.: FYCR260600018304

Page: 13 of 29

3.2 Test Mode

Test Mode	Test Modes Description
LTE/TM1	LTE system, QPSK modulation
LTE/TM2	LTE system, 16QAM modulation
Remark: The test mode(s) are selected according to relevant radio technology specifications.	

3.3 Test Environment

Environment Parameter	101.0~101.30 kPa Selected Values During Tests	
Relative Humidity	45-56 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	20	3.7
LTLV	-20	3.33
LTHV	-20	4.07
HTLV	50	3.33
HTHV	50	4.07
Remark:		
NV: Normal Voltage	LV: Low Extreme Test Voltage	HV: High Extreme Test Voltage
NT: Normal Temperature	LT: Low Extreme Test Temperature	HT: High Extreme Test Temperature

3.4 Description of Support Units

Description	Manufacturer	Model No.
-	-	-
The EUT has been tested as an independent unit.		



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SZCCS-TRF-01 Rev. A/2

Report No.: FYCR260600018304

Page: 14 of 29

3.5 Measurement Uncertainty

For a 95% confidence level ($k = 2$), the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 as following:

No.	Item	Measurement Uncertainty
1	Radiated Spurious emission test(UE)	$\pm 5.7\text{dB}$ Below 1GHz; $\pm 4.7\text{dB}$ (1GHz-18GHz); $\pm 4.7\text{dB}$ (18GHz-40GHz)
Remark: The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.		



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Report No.: FYCR260600018304

Page: 15 of 29

3.6 Test Location

All tests were performed at:

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Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

3.7 Test Facility

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

- **A2LA (Certificate No. 6606.01)**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 6606.01.

- **FCC –Designation Number: CN1322**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

- **Innovation, Science and Economic Development Canada**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

3.8 Test Engineer

Ian Li, Mason Wu, Sean Xiao



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SZCCS-TRF-01 Rev. A/2

Report No.: FYCR260600018304

Page: 16 of 29

3.9 Technical Specification

Characteristics	Description			
Radio System Type	☐ GSM	☐ UMTS	☒ LTE	
Supported Frequency Range	Band	TX	RX	
	LTE Band 2	1850 to 1910 MHz	1930 to 1990 MHz	
	LTE Band 4	1710 to 1755 MHz	2110 to 2155 MHz	
	LTE Band 5	824 to 849 MHz	869 to 894 MHz	
	LTE Band 12	699 to 716 MHz	729 to 746 MHz	
	LTE Band 13	777 to 787 MHz	746 to 756 MHz	
	LTE Band 25	1850 to 1915 MHz	1930 to 1995 MHz	
	LTE Band 26 (814 to 824 MHz)	814 to 824MHz	859 to 869 MHz	
	LTE Band 26 (824 to 849 MHz)	824 to 849 MHz	869 to 894 MHz	
	LTE Band 41	2496 to 2690MHz	2496 to 2690MHz	
	LTE Band 66	1710 to 1780 MHz	2110 to 2180 MHz	
	LTE Band 2	☒ 1.4 MHz	☒ 3 MHz	☒ 5 MHz
		☒ 15 MHz	☒ 20 MHz	
	LTE Band 4	☒ 1.4 MHz	☒ 3 MHz	☒ 5 MHz
		☒ 15 MHz	☒ 20 MHz	
	LTE Band 5	☒ 1.4 MHz	☒ 3 MHz	☒ 5 MHz
	LTE Band 12	☒ 1.4 MHz	☒ 3 MHz	☒ 5 MHz
	LTE Band 13	☒ 5 MHz	☒ 10 MHz	
	LTE Band 25	☒ 1.4 MHz	☒ 3 MHz	☒ 5 MHz
		☒ 15 MHz	☒ 20 MHz	
	LTE Band 26(814-824)	☒ 1.4 MHz	☒ 3 MHz	☒ 5 MHz
	LTE Band 26(824-849)	☒ 1.4 MHz	☒ 3 MHz	☒ 5 MHz
		☒ 15 MHz		
	LTE Band41	☒ 5 MHz	☒ 10 MHz	☒ 15 MHz
	LTE Band66	☒ 1.4 MHz	☒ 3 MHz	☒ 5 MHz
		☒ 15 MHz	☒ 20 MHz	



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Report No.: FYCR260600018304

Page: 17 of 29

3.10 Equipment List

Field Strength of Spurious Radiation					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Semi- Anechoic Chambe	CRT	N/A	SEM001-13	2025-10-13	2028-10-12
MXE EMI receiver(20Hz-8.4GHz)	Agilent	N9038A	SEM004-05	2025-07-21	2026-07-20
				2026-07-20	2028-07-19
Trilog-Broadband Antenna(25MHz-2GHz)	Schwarzbeck	VULB9168	SEM003-33	2023-09-24	2026-09-23
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2025/7/29	2027/7/28
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-54	2025/5/24	2027/5/23
Pre-Amplifier	HP	8447D	SEM005-02	2025-07-21	2026-07-20
				2026-07-20	2028-07-19
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM035-01	2026-05-12	2027-05-11
Biconical Antenna	Schwarzbeck	VUBA9117	SEM003-20	2025-12-23	2028-12-22
Signal Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2026-02-04	2027-02-03
Pre-amplifier	TST PASS	LNA180400G40	SEM005-39	2026/4/29	2027/4/28
Pre-amplifier	TST PASS	LNA10180G60	SEM005-32	2026/4/4	2027/4/3
Coaxial Cable	CCS	N/A	SEM035-02	2026/5/12	2027/5/11
Coaxial Cable	CCS	N/A	SEM035-03	2026/5/12	2027/5/11



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Report No.: FYCR260600018304

Page: 18 of 29

3.11 Test Frequencies

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 2	1.4MHz	TX	Channel 18607	Channel 18900	Channel 19193
			1850.7 MHz	1880 MHz	1909.3 MHz
		RX	Channel 607	Channel 900	Channel 1193
			1930.7 MHz	1960 MHz	1989.3 MHz
	3MHz	TX	Channel 18615	Channel 18900	Channel 19185
			1851.5 MHz	1880 MHz	1908.5 MHz
		RX	Channel 615	Channel 900	Channel 1185
			1931.5 MHz	1960 MHz	1988.5 MHz
	5MHz	TX	Channel 18625	Channel 18900	Channel 19175
			1852.5 MHz	1880 MHz	1907.5 MHz
		RX	Channel 625	Channel 900	Channel 1175
			1932.5 MHz	1960 MHz	1987.5 MHz
	10MHz	TX	Channel 18650	Channel 18900	Channel 19150
			1855 MHz	1880 MHz	1905 MHz
		RX	Channel 650	Channel 900	Channel 1150
			1935 MHz	1960 MHz	1985 MHz
	15MHz	TX	Channel 18675	Channel 18900	Channel 19125
			1857.5 MHz	1880 MHz	1902.5 MHz
		RX	Channel 675	Channel 900	Channel 1125
			1937.5 MHz	1960 MHz	1982.5 MHz
	20MHz	TX	Channel 18700	Channel 18900	Channel 19100
			1860 MHz	1880 MHz	1900 MHz
		RX	Channel 700	Channel 900	Channel 1100
			1940 MHz	1960 MHz	1980 MHz



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SZCCS-TRF-01 Rev. A/2

Report No.: FYCR260600018304

Page: 19 of 29

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 4	1.4MHz	TX	Channel 19957	Channel 20175	Channel 20393
			1710.7 MHz	1732.5 MHz	1754.3 MHz
		RX	Channel 1957	Channel 2175	Channel 2393
			2110.7 MHz	2132.5MHz	2154.3 MHz
	3MHz	TX	Channel 19965	Channel 20175	Channel 20385
			1711.5 MHz	1732.5 MHz	1753.5 MHz
		RX	Channel 1965	Channel 2175	Channel 2385
			2111.5 MHz	2132.5MHz	2153.5 MHz
	5MHz	TX	Channel 19975	Channel 20175	Channel 20375
			1712.5 MHz	1732.5 MHz	1752.5 MHz
		RX	Channel 1975	Channel 2175	Channel 2425
			2112.5 MHz	2132.5MHz	2157.5 MHz
	10MHz	TX	Channel 20000	Channel 20175	Channel 20350
			1715 MHz	1732.5 MHz	1750 MHz
		RX	Channel 2000	Channel 2175	Channel 2350
			2115 MHz	2132.5MHz	2150 MHz
	15MHz	TX	Channel 20025	Channel 20175	Channel 20325
			1717.5 MHz	1732.5 MHz	1747.5 MHz
		RX	Channel 2025	Channel 2175	Channel 2325
			2117.5 MHz	2132.5MHz	2147.5 MHz
	20MHz	TX	Channel 20050	Channel 20175	Channel 20300
			1720 MHz	1732.5 MHz	1745 MHz
		RX	Channel 2050	Channel 2175	Channel 2300
			2120 MHz	2132.5MHz	2145 MHz

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 5	1.4MHz	TX	Channel 20407	Channel 20525	Channel 20643
			824.7 MHz	836.5 MHz	848.3 MHz
		RX	Channel 2407	Channel 2525	Channel 2643
			869.7 MHz	881.5 MHz	893.3 MHz
	3MHz	TX	Channel 20415	Channel 20525	Channel 20635
			825.5 MHz	836.5 MHz	847.5 MHz
		RX	Channel 2415	Channel 2525	Channel 2635
			870.5 MHz	881.5 MHz	892.5 MHz
	5MHz	TX	Channel 20425	Channel 20525	Channel 20625
			826.5 MHz	836.5 MHz	846.5 MHz
		RX	Channel 2425	Channel 2525	Channel 2625
			871.5 MHz	881.5 MHz	891.5 MHz
	10MHz	TX	Channel 20450	Channel 20525	Channel 20600
			829 MHz	836.5 MHz	844 MHz
		RX	Channel 2450	Channel 2525	Channel 2600
			874 MHz	881.5 MHz	889 MHz



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SZCCS-TRF-01 Rev. A/2

Report No.: FYCR260600018304

Page: 20 of 29

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 12	1.4MHz	TX	Channel 23017	Channel 23095	Channel 23173
			699.7 MHz	707.5 MHz	715.3 MHz
		RX	Channel 5017	Channel 5095	Channel 5173
			729.7 MHz	737.5 MHz	745.3 MHz
	3MHz	TX	Channel 23025	Channel 23095	Channel 23165
			700.5 MHz	707.5 MHz	714.5 MHz
		RX	Channel 5025	Channel 5095	Channel 5165
			730.5 MHz	737.5 MHz	744.5 MHz
	5MHz	TX	Channel 23035	Channel 23095	Channel 23155
			701.5 MHz	707.5 MHz	713.5 MHz
		RX	Channel 5035	Channel 5095	Channel 5155
			731.5 MHz	737.5 MHz	743.5 MHz
	10MHz	TX	Channel 23060	Channel 23095	Channel 23130
			704 MHz	707.5 MHz	711 MHz
		RX	Channel 5060	Channel 5095	Channel 5130
			734 MHz	737.5 MHz	741 MHz



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SZCCS-TRF-01 Rev. A/2

Report No.: FYCR260600018304

Page: 21 of 29

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 13	5MHz	TX	Channel 23205	Channel 23230	Channel 23255
			779.5 MHz	782 MHz	784.5 MHz
	10MHz	RX	Channel 5205	Channel 5230	Channel 5255
			748.5 MHz	751 MHz	753.5 MHz
		TX	Channel 23230	Channel 23230	Channel 23230
			782 MHz	782 MHz	782 MHz
		RX	Channel 5230	Channel 5230	Channel 5230
			751 MHz	751 MHz	751 MHz
Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 25	1.4MHz	TX	Channel 26047	Channel 26365	Channel 26683
			1850.7 MHz	1882.5 MHz	1914.3 MHz
		RX	Channel 8047	Channel 8365	Channel 8683
			1930.7 MHz	1962.5 MHz	1994.3 MHz
	3MHz	TX	Channel 26055	Channel 26365	Channel 26675
			1851.5 MHz	1882.5 MHz	1913.5 MHz
		RX	Channel 8055	Channel 8365	Channel 8675
			1931.5 MHz	1962.5 MHz	1993.5 MHz
	5MHz	TX	Channel 26065	Channel 26365	Channel 26665
			1852.5 MHz	1882.5 MHz	1912.5 MHz
		RX	Channel 8065	Channel 8365	Channel 8665
			1932.5 MHz	1962.5 MHz	1992.5 MHz
	10MHz	TX	Channel 26090	Channel 26365	Channel 26640
			1855 MHz	1882.5 MHz	1910 MHz
		RX	Channel 8090	Channel 8365	Channel 8640
			1935 MHz	1962.5 MHz	1990 MHz
	15MHz	TX	Channel 26115	Channel 26365	Channel 26615
			1857.5 MHz	1882.5 MHz	1907.5 MHz
		RX	Channel 8115	Channel 8365	Channel 8615
			1937.5 MHz	1962.5 MHz	1987.5 MHz
	20MHz	TX	Channel 26140	Channel 26365	Channel 26590
			1860 MHz	1882.5 MHz	1905 MHz
		RX	Channel 8140	Channel 8365	Channel 8590
			1940 MHz	1962.5 MHz	1985 MHz



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SZCCS-TRF-01 Rev. A/2

Report No.: FYCR260600018304

Page: 22 of 29

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 26 (814-824)	1.4MHz	TX	Channel 26697	Channel 26740	Channel 26783
			814.7 MHz	819 MHz	823.3 MHz
		RX	Channel 8697	Channel 8740	Channel 8783
			859.7 MHz	864MHz	868.3 MHz
	3MHz	TX	Channel 26705	Channel 26740	Channel 26775
			815.5 MHz	819 MHz	822.5 MHz
		RX	Channel 8705	Channel 8740	Channel 8775
			860.5 MHz	864MHz	867.5 MHz
	5MHz	TX	Channel 26715	Channel 26740	Channel 26765
			816.5 MHz	819 MHz	821.5 MHz
		RX	Channel 8715	Channel 8740	Channel 8765
			861.5 MHz	864MHz	866.5 MHz
	10MHz	TX	Channel 26740	Channel 26740	Channel 26740
			819 MHz	819 MHz	819 MHz
		RX	Channel 8740	Channel 8740	Channel 8740
			864MHz	864MHz	864MHz

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band26 (824-849)	1.4MHz	TX	Channel 26797	Channel 26915	Channel 27033
			824.7 MHz	836.5 MHz	848.3 MHz
		RX	Channel 8797	Channel 8915	Channel 9033
			869.7 MHz	881.5 MHz	893.3 MHz
	3MHz	TX	Channel 26805	Channel 26915	Channel 27025
			825.5 MHz	836.5 MHz	847.5 MHz
		RX	Channel 8805	Channel 8915	Channel 9025
			860.5 MHz	881.5 MHz	892.5 MHz
	5MHz	TX	Channel 26815	Channel 26915	Channel 27015
			826.5 MHz	836.5 MHz	846.5 MHz
		RX	Channel 8815	Channel 8915	Channel 9015
			871.5 MHz	881.5 MHz	891.5 MHz
	10MHz	TX	Channel 26840	Channel 26915	Channel 26990
			829 MHz	836.5 MHz	844 MHz
		RX	Channel 8840	Channel 8915	Channel 8990
			874 MHz	881.5 MHz	889 MHz
	15MHz	TX	Channel 26865	Channel 26915	Channel 26965
			831.5 MHz	836.5 MHz	841.5 MHz
		RX	Channel 8865	Channel 8915	Channel 8965
			876.5 MHz	881.5 MHz	886.5 MHz



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SZCCS-TRF-01 Rev. A/2

Report No.: FYCR260600018304

Page: 23 of 29

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 41 (2496-2690)	5MHz	TX / RX	Channel 39675	Channel40620	Channel 41565
			2498.5 MHz	2593 MHz	2687.5 MHz
	10MHz	TX / RX	Channel 39700	Channel40620	Channel 41540
			2501 MHz	2593 MHz	2685 MHz
	15MHz	TX / RX	Channel 39725	Channel40620	Channel 41515
			2503.5 MHz	2593 MHz	2682.5 MHz
	20MHz	TX / RX	Channel 39750	Channel40620	Channel 41490
			2506 MHz	2593 MHz	2680 MHz

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 41 (2500-2690)	5MHz	TX / RX	Channel 39715	Channel40640	Channel 41565
			2502.5 MHz	2595 MHz	2687.5 MHz
	10MHz	TX / RX	Channel 39740	Channel40640	Channel 41540
			2505 MHz	2595 MHz	2685 MHz
	15MHz	TX / RX	Channel 39765	Channel40640	Channel 41515
			2507.5 MHz	2595 MHz	2682.5 MHz
	20MHz	TX / RX	Channel 39790	Channel40640	Channel 41490
			2510 MHz	2595 MHz	2680 MHz



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SZCCS-TRF-01 Rev. A/2

Report No.: FYCR260600018304

Page: 24 of 29

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band66	1.4MHz	TX	Channel 131979	Channel 132322	Channel 132665
			1710.7 MHz	1745 MHz	1779.3 MHz
		RX	Channel 66443	Channel 66786	Channel 67329
			2110.7 MHz	2145MHz	2199.3 MHz
	3MHz	TX	Channel 131987	Channel 132322	Channel 132657
			1711.5 MHz	1745 MHz	1778.5MHz
		RX	Channel 66451	Channel 66786	Channel 67321
			2111.5 MHz	2145MHz	2198.5MHz
	5MHz	TX	Channel 131997	Channel 132322	Channel 132647
			1712.5 MHz	1745 MHz	1777.5 MHz
		RX	Channel 66461	Channel 66786	Channel 67311
			2112.5 MHz	2145MHz	2197.5 MHz
	10MHz	TX	Channel 132022	Channel 132322	Channel 132622
			1715 MHz	1745 MHz	1775 MHz
		RX	Channel 66486	Channel 66786	Channel 67286
			2115 MHz	2145MHz	2195 MHz
	15MHz	TX	Channel 132047	Channel 132322	Channel 132597
			1717.5 MHz	1745 MHz	1772.5 MHz
		RX	Channel 66511	Channel 66786	Channel 67261
			2117.5 MHz	2145MHz	2192.5 MHz
	20MHz	TX	Channel 132072	Channel 132322	Channel 132572
			1720 MHz	1745 MHz	1770 MHz
		RX	Channel 66536	Channel 66786	Channel 67236
			2120 MHz	2145MHz	2190 MHz



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4 Description of Tests

4.1 Field Strength of Spurious Radiation

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.8

Below 1GHz test procedure as below:

- 1). The EUT was powered ON and placed on a 80cm high table in the chamber. The antenna of the transmitter was extended to its maximum length.
- 2). The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.
- 3). Steps 1) and 2) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.
- 4). Test the EUT in the lowest channel, the middle channel ,the Highest channel.
- 5). The radiation measurements are performed in X, Y, Z axis positioning. And found the Z axis positioning which it is worse case, Only the test worst case mode is recorded in the report.
- 6). Repeat above procedures until all frequencies measured was complete.

$$E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dB}\mu\text{V)} + (\text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)} - \text{AMP(dB)})$$

$$\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20 \log D - 104.8; \text{ where D is the measurement distance in meters}$$

Above 1GHz test procedure as below:

- 1) Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber
- 2) Calculate power in dBm by the following formula:

$$E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dB}\mu\text{V)} + (\text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)} - \text{AMP(dB)})$$

$$\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20 \log D - 104.8; \text{ where D is the measurement distance in meters}$$
- 3). Test the EUT in the lowest channel, the middle channel the Highest channel
- 4). The radiation measurements are performed in X, Y, Z axis positioning. And found the Z axis positioning which it is worse case, Only the test worst case mode is recorded in the report.
- 5). Repeat above procedures until all frequencies measured was complete

Remark1: Reference test setup 2

Remark2: The emission below 18G were measured at a 3m test distance, while emissions above 18GHz were measured at a 1m test distance. At a measurement distance of 1 meter the limit line was increased by $20 \cdot \log(3/1) = 9.54 \text{ dB}$.

Remark: Reference test setup 1

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26



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SZCCS-TRF-01 Rev. A/2

Report No.: FYCR260600018304

Page: 26 of 29

Margin = Limit – Level

2) Scan from 9kHz to 40GHz, The disturbance between 9KHz to 30MHz and 18GHz to 40GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3) All modes have been tested, but only the worst case data displayed in this report.



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4.2 Test Setups

4.2.1 Test Setup 1

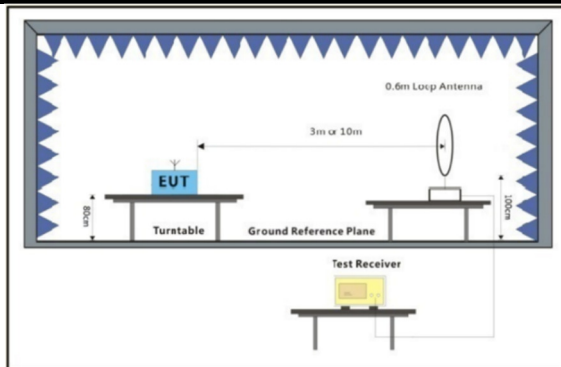


Figure 1. Below 30MHz

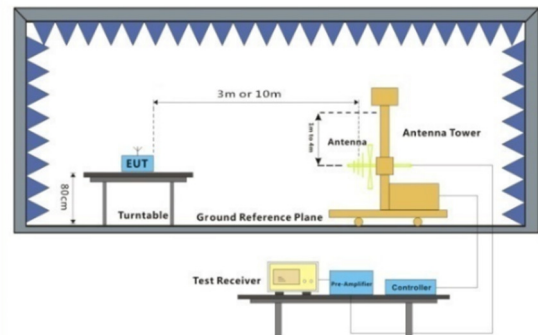


Figure 2. 30MHz to 1GHz

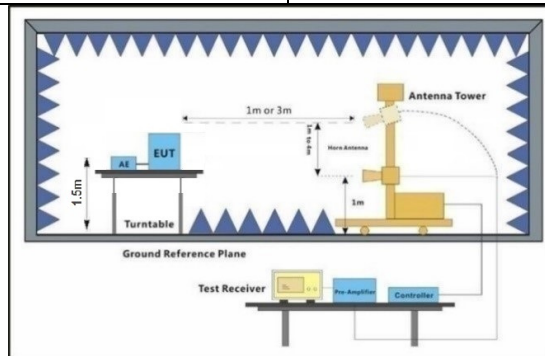


Figure 3. above 1GHz

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SZCCS-TRF-01 Rev. A/2

Report No.: FYCR260600018304

Page: 28 of 29

4.3 Test Conditions

Field Strength of Spurious Radiation	
Test Case	Test Conditions
Test Environment	Ambient Climate & Rated Voltage
Test Setup	Test Setup 1
RF Channels (TX)	L, M, H (L= low channel, M= middle channel, H= high channel)
Test Mode	LTE/TM1; LTE/TM2 Remark: All bandwidth and modulation of LTE have been pre tested, and only the worst results are reflected in the report.



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SZCCS-TRF-01 Rev. A/2

Report No.: FYCR260600018304

Page: 29 of 29

5 Appendixes

FYCR2606000183AT Appendix	Setup Photo- WWAN
Appendix B.1	LTE RSE

---End of Report---



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