

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230500145304

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TEST REPORT

Application No.: SZCR2305001453AT

Applicant: Dspread Technology (Beijing) Inc

Address of Applicant: Rm.407, B12C, #10(Universal Business Park), Jiuxianqiao Road, Chaoyang

District, Beijing, 100027, China

Manufacturer: Dspread Technology (Beijing) Inc

Address of Manufacturer: Rm.407, B12C, #10(Universal Business Park), Jiuxianqiao Road, Chaoyang

District, Beijing, 100027, China

Factory: Shenzhen AXCRT Co., Ltd

Address of Factory: Room 207 Huiju Innovation Park, No. 2 Liuxian Avenue, Xingdong

community, Xin'an street, Bao'an District, Shenzhen

Equipment Under Test (EUT):

EUT Name: Mobile POS Model No.: QPOS Trio

FCC ID: 2AGQ6-QPOSTRIO

Standard(s): 47 CFR Part 2

47 CFR Part 22 subpart H 47 CFR Part 24 subpart E

Date of Receipt: 2023-05-15

Date of Test: 2023-07-08 to 2023-08-07

Date of Issue: 2023-08-09

Test Result: Pass*

Keny Xu EMC Laboratory Manager

Ceny. Ku

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^{*} In the configuration tested, the EUT complied with the standards specified above.



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	Revision Record						
Version	Version Chapter Date Modifier						
01		2023-08-09		Original			

Authorized for issue by:			
	Charle Doi		
	Charlie Dai/Project Engineer		
	Exic Fu		
	Eric Fu/Reviewer	-	



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2 **Test Summary**

Test Item	FCC	Requirements	Verdict
1 Got Rom	Rule No.	roqui omonto	Toraiot
Effective (lectronic) Dedicted	§2.1046,	ERP≤7W(GSM850)	
Effective (Isotropic) Radiated Power Output Data	§22.913,	EIRP≤2W(PCS1900)	PASS
	§24.232		
Peak-Average Ratio	§24.232	≤13dB	PASS
Modulation Characteristics	§2.1047	Digital modulation	PASS
Bandwidth	\$2.1040(b)	OBW: No limit	PASS
Dandwidth	§2.1049(h)	EBW: No limit	PASS
	§2.1051,	≤ -13dBm/1%*EBW, in 1 MHz bands	PASS
Band Edge Compliance	§22.917,	immediately outside and adjacent to the	
	§24.238	frequency block.	
0	§2.1051,		
Spurious emissions at antenna terminals	§22.917,	≤ -13dBm	PASS
terrimicie	§24.238		
Fig. 1 at a config. of a config.	§2.1051,		
Field strength of spurious radiation	§22.917,	≤ -13dBm	PASS
radiation	§24.238		
	§2.1055,		
Frequency stability	§22.355,	≤ ±2.5ppm.	PASS
	§24.235		



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4 General Information

4.1 Details of E.U.T.

Powered by DC3.7V by Rechargeable Li-ion Battery		
Model: XHL18650 2200mAh		
Charged by AC adapter M/N: TPA-46050200UU		
Input: AC 100-240V, 50/60Hz, 0.3A		
Adapter output: DC5V/2A 10.0W		
Type-C cable: 103cm unshielded cable without ferrite core		
Portable production		
GPRS		
GSM850/PCS1900		
GMSK for GPRS		
12		
PIFA Antenna		
GSM 850: 1.38dBi; GSM 1900: 1.42dBi		
This device has SIM and SAM Card sockets. Both the SIM and SAM sockets have been tested. SIM was worst case, only record SIM.		





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4.2 Test Frequency

			DE 01 1			
Test mode:	TV	RF Channel				
rest mode.	TX	Low (L)	Middle (M)	High (H)		
CSMSEO	TX	Channel 128	Channel 190	Channel 251		
GSM850	1.	824.2MHz	836.6 MHz	848.8 MHz		
Test mode:	TX	RF Channel				
rest mode.		Low (L)	Middle (M)	High (H)		
PCS1900	TX	Channel 512	Channel 661	Channel 810		
		1850.2MHz	1880.0 MHz	1909.8 MHz		

4.3 Test Environment

Environment Parameter	Selected Values During Tests				
Temperature:	TL	0°C			
	TN	+20°C			
	TH	+40°C			
Voltage:	VL	3.145 Vdc			
	VN	3.7 Vdc			
	VH	4.255 Vdc			

NOTE: VL= lower extreme test voltage

VN= nominal voltage

VH= upper extreme test voltage TL= lower extreme test temperature

TN= normal temperature

TH= upper extreme test temperature

4.4 Description of Support Units

The EUT has been tested independent unit.



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4.5 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	± 5.4 x 10 ⁻⁸
2	Duty cycle	± 0.3%
3	Occupied Bandwidth	± 3%
4	RF conducted power	± 0.8dB
5	RF power density	± 0.4dB
6	Conducted Spurious emissions	± 2.7dB
7	Dedicted Courieus emission test	± 3.1dB (Below 1GHz)
	Radiated Spurious emission test	± 4.4dB (Above 1GHz)
8	Temperature test	± 1°C
9	Humidity test	± 3%
10	Supply voltages	± 1.5%
11	Time	± 3%



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4.6 Test Location

All tests were performed at:

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

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

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

No tests were sub-contracted.

4.7 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.

4.8 Deviation from Standards

None

4.9 Abnormalities from Standard Conditions

None



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5 Equipment List

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
Programmable DC	Chroma	62024P-80-60	SEM011-09	2022/07/12	2023/07/11
Source				2023/07/11	2024/07/10
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023/03/21	2024/03/20
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2022/07/12 2023/07/11	2023/07/11 2024/07/10
Measurement Software	TST	TST PASS V2.0	N/A	N/A	N/A
Attenuator	Huber+Suhner	6620_SMA-	SEM021-09	2022/07/12	2023/07/11
Allendator	i lubei+Suillei	50-1	3LIVI021-09	2023/07/11	2024/07/10
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-03	2023/03/28	2024/03/27
Power Sensor	KEYSIGHT	U2021XA	SEM009-15	2023/03/21	2024/03/20

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
MXE EMI receiver	Agilent	N9038A	SEM004-05	2022/07/12	2023/07/11
WIXE LIVII receiver	Agilent	N9036A	3LIVI004-03	2023/07/11	2024/07/10
Dro amplifiar	HP	8447D	SEM005-02	2022/07/12	2023/07/11
Pre-amplifier	ПР	0447D	3EIVI005-02	2023/07/11	2024/07/10
Spectrum Analyzer	Rohde & Schwarz	101288	SEM004-08	2022/07/12	2023/07/11
Spectrum Analyzer				2023/07/11	2024/07/10
Low Noige Amplifier	CL AV/IIO	BDLNA-0118-	SEM005-05	2022/07/12	2023/07/11
Low Noise Amplifier	CLAVIIO	352810	3EIVI005-05	2023/07/11	2024/07/10
Substitution Antenna	Schwarzbeck	VULB9168	SEM003-18	2022/08/07	2025/08/06
Signal Generator(9kHz-	NE470D	MVC22702C7	A mile mt	2022/07/12	2023/07/11
40GHz)	N5173B	MY53270267	Agilent	2023/07/11	2024/07/10
Dro overlifier	LID	0447D	CEMOOF OO	2022/07/12	2023/07/11
Pre-amplifier	HP	8447D	SEM005-02	2023/07/11	2024/07/10
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2021/7/11	2024/7/10
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25



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Double-ridged waveguide horn	ETS-LINDGREN	3117	SEM003-34	2021/9/25	2024/9/24
Spectrum Analyzer	Rohde & Schwarz	101288	SEM004-08	2022/07/12 2023/07/11	2023/07/11 2024/07/10
Low Noise Amplifier	CLAVIIO	BDLNA-0118- 352810	SEM005-05	2022/07/12 2023/07/11	2023/07/11 2024/07/10
Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2022/07/12 2023/07/11	2023/07/11 2024/07/10
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2022/07/12 2023/07/11	2023/07/11 2024/07/10
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-03	2023/03/28	2024/03/27

General used equipmen	t				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2022/09/04	2023/09/03
Humidity/ Temperature Indicator	Anymetre	TH101B	SEM002-09	2022/09/04	2023/09/03
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2023/03/23	2024/03/22



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Radio Spectrum Matter Test Results 6

6.1 Effective (Isotropic) Radiated Power Output Data

Test Requirement: §2.1046, §22.913, §24.232

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

I imit: ERP≤7W(GSM850)

EIRP ≤ 2W(PCS1900)

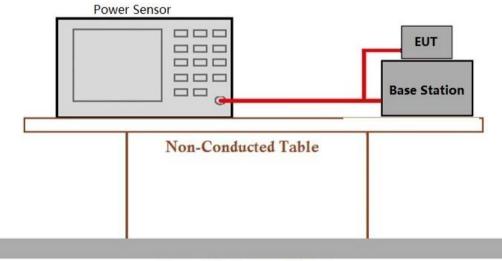
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1005 mbar

Test mode: 30:TX mode_Keep the EUT in transmitting mode

6.1.2 Test Setup Diagram



Ground Reference Plane

6.1.3 Measurement Data

Please refer to Appendix for GSM RF power test data.



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6.2 Peak-Average Ratio

Test Requirement: §24.232

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit: ≤13dB

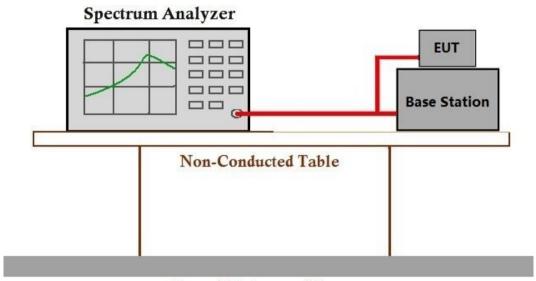
6.2.1 E.U.T. Operation

Operating Environment:

Temperature: Humidity: 53.5 % RH Atmospheric Pressure: 1005 mbar

Test mode: 30:TX mode_Keep the EUT in transmitting mode

6.2.2 Test Setup Diagram



Ground Reference Plane

6.2.3 Measurement Data

Please refer to Appendix for GSM PAR test data.



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6.3 Bandwidth

Test Requirement: §2.1049(h), §22.917, §24.238

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit: **OBW: No limit** EBW: No limit

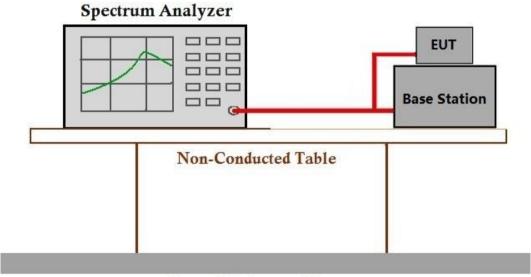
6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1005 mbar

Test mode: 30:TX mode Keep the EUT in transmitting mode

6.3.2 Test Setup Diagram



Ground Reference Plane

6.3.3 Measurement Data

Please refer to Appendix for GSM bandwidth test data.



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6.4 Band Edge Compliance

Test Requirement: §2.1051, §22.917, §24.238

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit: ≤ -13dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to

the frequency block.

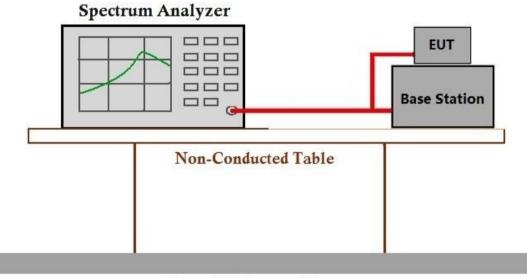
6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1005 mbar

Test mode: 30:TX mode_Keep the EUT in transmitting mode

6.4.2 Test Setup Diagram



Ground Reference Plane

6.4.3 Measurement Data

Please refer to Appendix for GSM CSE test data.



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6.5 Spurious emissions at antenna terminals

Test Requirement: §2.1051, §22.917, §24.238

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit: ≤ -13dBm

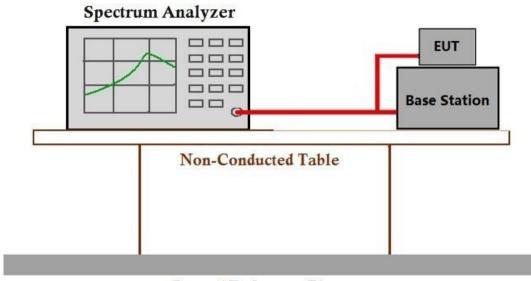
6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1005 mbar

Test mode: 30:TX mode_Keep the EUT in transmitting mode

6.5.2 Test Setup Diagram



Ground Reference Plane

6.5.3 Measurement Data

Please refer to Appendix for GSM CSE test data.



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6.6 Field strength of spurious radiation

Test Requirement: §2.1051, §22.917, §24.238

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit: ≤ -13dBm

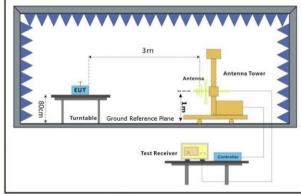
6.6.1 E.U.T. Operation

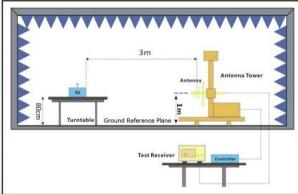
Operating Environment:

Temperature: Humidity: 53.5 % RH Atmospheric Pressure: 1005 mbar

Test mode: 30:TX mode_Keep the EUT in transmitting mode

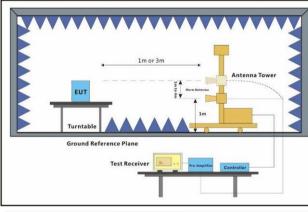
6.6.2 Test Setup Diagram

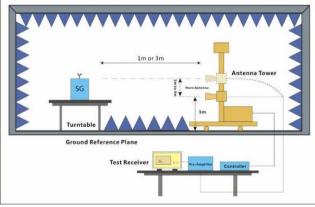




EUT

Substiute Antenna+Signal Generator





EUT

Substitue Antenna+Signal Generator



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6.6.3 Measurement Procedure and Data

Test Procedure:

- (1)On a test site, the EUT shall be placed on a turntable and in the position closest to the normal use as declared by the user.
- (2) The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
- (3) The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
- (4) The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
- (5) The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.
- (6) The transmitter shall than be rotated through 360 in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- (7) The test antenna shall be raised and lowered again through the specified range of height until the measuring receiver detects a maximum signal level.
- (8) The maximum signal level detected by the measuring receiver shall be noted.
- (9) The measurement shall be repeated with the test antenna set to horizontal polarization.
- (10) Replace the antenna with a proper Antenna (substitution antenna).
- (11) The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.
- (12) The substitution antenna shall be connected to a calibrated signal generator.
- (13) If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- (14)The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.
- (15) The input signal to substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.
- (16) The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
- (17)The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.



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	GSM850-Low channel										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
1794.8	-62.58	-13	-49.58	-68.06	0.52	6	Horizontal	Pass			
2692.2	-58.85	-13	-45.85	-63.56	0.59	5.3	Horizontal	Pass			
3589.6	-54.85	-13	-41.85	-61.74	0.71	7.6	Horizontal	Pass			
1794.8	-62.56	-13	-49.56	-68.04	0.52	6	Vertical	Pass			
2692.2	-59.94	-13	-46.94	-64.65	0.59	5.3	Vertical	Pass			
3589.6	-54.05	-13	-41.05	-60.94	0.71	7.6	Vertical	Pass			

	GSM850-Middle channel										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
1829.2	-62.89	-13	-49.89	-68.37	0.52	6	Horizontal	Pass			
2744.4	-58.19	-13	-45.19	-62.9	0.59	5.3	Horizontal	Pass			
3659.2	-54.25	-13	-41.25	-61.14	0.71	7.6	Horizontal	Pass			
1829.2	-62.89	-13	-49.89	-68.37	0.52	6	Vertical	Pass			
2744.4	-59.26	-13	-46.26	-63.97	0.59	5.3	Vertical	Pass			
3659.2	-54.52	-13	-41.52	-61.41	0.71	7.6	Vertical	Pass			

	GSM850-High channel										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
1804.8	-63.44	-13	-50.44	-68.92	0.52	6	Horizontal	Pass			
2707.2	-59.07	-13	-46.07	-63.78	0.59	5.3	Horizontal	Pass			
3609.6	-55.34	-13	-42.34	-62.23	0.71	7.6	Horizontal	Pass			
1804.8	-63.08	-13	-50.08	-68.56	0.52	6	Vertical	Pass			
2707.2	-59.14	-13	-46.14	-63.85	0.59	5.3	Vertical	Pass			
3609.6	-55.11	-13	-42.11	-62	0.71	7.6	Vertical	Pass			



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	GSM 1900-Low channel										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
3420.4	-55.97	-13	-42.97	-61.52	0.65	6.2	Horizontal	Pass			
5130.6	-52.23	-13	-39.23	-61.01	0.82	9.6	Horizontal	Pass			
6840.8	-51.6	-13	-38.6	-62.45	0.95	11.8	Horizontal	Pass			
3420.4	-56.23	-13	-43.23	-61.78	0.65	6.2	Vertical	Pass			
5130.6	-52.94	-13	-39.94	-61.72	0.82	9.6	Vertical	Pass			
6840.8	-51.76	-13	-38.76	-62.61	0.95	11.8	Vertical	Pass			

	GSM 1900-Middle channel										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
3495.2	-55.9	-13	-42.9	-61.45	0.65	6.2	Horizontal	Pass			
5242.8	-52.79	-13	-39.79	-61.57	0.82	9.6	Horizontal	Pass			
6990.4	-50.17	-13	-37.17	-61.02	0.95	11.8	Horizontal	Pass			
3495.2	-56.36	-13	-43.36	-61.91	0.65	6.2	Vertical	Pass			
5242.8	-52.79	-13	-39.79	-61.57	0.82	9.6	Vertical	Pass			
6990.4	-50.9	-13	-37.9	-61.75	0.95	11.8	Vertical	Pass			

	GSM 1900-High channel										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
3569.6	-56.34	-13	-43.34	-63.23	0.71	7.6	Horizontal	Pass			
5354.4	-53.47	-13	-40.47	-62.25	0.82	9.6	Horizontal	Pass			
7139.2	-50.85	-13	-37.85	-62.75	1	12.9	Horizontal	Pass			
3569.6	-56.39	-13	-43.39	-63.28	0.71	7.6	Vertical	Pass			
5354.4	-53.06	-13	-40.06	-61.84	0.82	9.6	Vertical	Pass			
7139.2	-49.92	-13	-36.92	-61.82	1	12.9	Vertical	Pass			



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6.7 Frequency stability

Test Requirement: §2.1055, §22.355, §24.235

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit: $\leq \pm 2.5$ ppm.

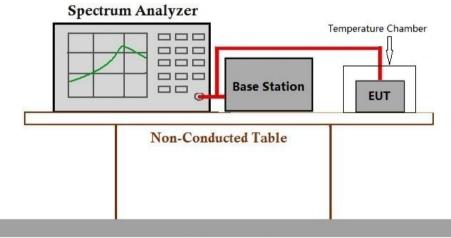
6.7.1 E.U.T. Operation

Operating Environment:

Temperature: Humidity: 53.5 % RH Atmospheric Pressure: 1005 mbar

Test mode: 30:TX mode_Keep the EUT in transmitting mode

6.7.2 Test Setup Diagram



Ground Reference Plane

6.7.3 Measurement Data

Please refer to Appendix for GSM FE test data.



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6.8 Modulation Characteristics

Test Requirement: **§2.1047**

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit: Digital modulation

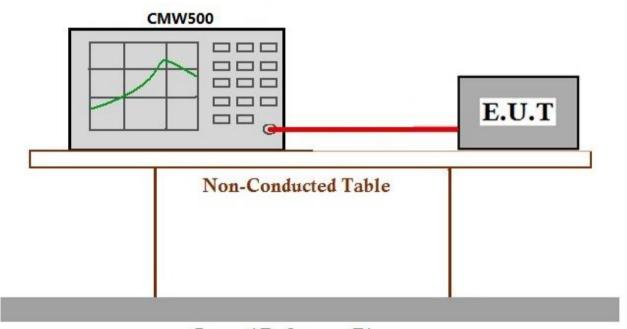
6.8.1 E.U.T. Operation

Operating Environment:

Temperature: Humidity: 53.5 % RH Atmospheric Pressure: 1005 mbar

Test mode: 30:TX mode_Keep the EUT in transmitting mode

6.8.2 Test Setup Diagram



Ground Reference Plane

6.8.3 Measurement Data

Pass, it's digital modulation device.



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7 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2305001453AT.

8 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2305001453AT.

-End of Report -



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