

EMC-TRF-01 Rev 1.0

Report No.: GZCR210802080507

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TEST REPORT

Application No.: GZCR2108020805AT

Applicant: Poynt, LLC

Address of Applicant: 3032 Bunker Hill Lane Santa Clara California 95054 United States

Manufacturer: Beijing Wiseasy Technology CO., Ltd.

Address of Manufacturer: 7thFloor, Block B, Wangxin Mansion, No.28 Xiaoyun Road, Chaoyang

District, 100027, Beijing, China.

Factory: BYD Precision Manufacture Co., Ltd.

Address of factory: Baolong Industrial Park, 3001 Baohe Rd., Longgang District, Shenzhen,

P.R.C

Equipment Under Test (EUT):

EUT Name: Poynt Smart Terminal V3.0

Model No.: PST3
Trade mark: POYNT

Standard(s): 47 CFR Part 2

47 CFR Part 22 subpart H 47 CFR Part 24 subpart E 47 CFR Part 27 subpart C 47 CFR Part 90 subpart R 47 CFR Part 90 subpart S

Date of Receipt: 2021-08-04

Date of Test: 2021-08-04 to 2021-08-24

Date of Issue: 2021-08-31

Test Result: Pass

Kobe Jian EMC Laboratory Manager



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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 Remark							
01		2021-08-31		Original				

Authorized for issue by		
	Coly knong	
	Lily Kuang/Project Engineer	
	Ridoy Liu	
	Ricky Liu/Reviewer	



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2 Test Summary

LTE Band 5/26(824MHz-849MHz)

Test Item	FCC Rule No.	Requirements	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §22.913	ERP≤7W (LTE Band 5, 26(824MHz-829MHz))	PASS
Peak-Average Ratio	§2.1046 §22.913	≤13dB	PASS
Modulation Characteristics	§2.1047	Digital modulation	PASS
Bandwidth	§2.1049(h)	OBW: No limit EBW: No limit	PASS
Band Edge Compliance	§2.1051 §22.917	≤ -13dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	PASS
Spurious emissions at antenna terminals	§2.1051 §22.917	≤ -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	≤ -13dBm/100KHz	PASS
Frequency stability	§2.1055 §22.355	≤ ±2.5ppm	PASS

LTE Band 2/25

LTE Ballu 2/25				
Test Item	FCC	Requirements	Verdict	
I CSL ILCIII	Rule No.	Nequilentes	V CI UICL	
Effective (Isotropic) Radiated Power Output	§2.1046	EIRP≤2W (LTE Band 2, 25)	PASS	
Data	§24.232	EIRF 32VV (ETE Band 2, 23)	F A 3 3	
Dook Average Detic	§2.1046	<424D	0	
Peak-Average Ratio	§24.232	≤13dB	PASS	
Modulation Characteristics	§2.1047	Digital modulation	PASS	
Bandwidth	§2.1049(h)	OBW: No limit	PASS	
Danuwiuth		EBW: No limit	FASS	
Band Edge Compliance	§2.1051	≤ -13dBm/1%*EBW, in 1 MHz bands immediately	PASS	
Dand Luge Compilance	§24.238	outside and adjacent to the frequency block.	F 700	
Spurious emissions at	§2.1051	≤ -13 dBm/1MHz, from 9 kHz to 10th harmonics but	PASS	
antenna terminals	§24.238	outside authorized operating frequency ranges.	FASS	
Field strength of	§2.1053	≤ -13dBm/1MHz	PASS	
spurious radiation	§24.238	2 - 130DIII/ 110II IZ	1 700	
Frequency stability	§2.1055	< +2 5nnm	PASS	
r requericy stability	§24.235	≤ ±2.5ppm		



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LTE Band 4

Test Item	FCC Rule No.	Requirements	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §27.50(d)	EIRP≤1W (LTE Band 4)	PASS
Peak-Average Ratio	§2.1046 §27.50(d)	≤13dB	PASS
Modulation Characteristics	§2.1047	Digital modulation	PASS
Bandwidth	§2.1049(h)	OBW: No limit EBW: No limit	PASS
Band Edge Compliance	§2.1051 §27.53(h)	≤ -13dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	PASS
Spurious emissions at antenna terminals	§2.1051 §27.53(h)	≤ -13 dBm/1MHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges.	PASS
Field strength of spurious radiation	§2.1053 §27.53(h)	≤ -13dBm/1MHz	PASS
Frequency stability	§2.1055 §27.54	≤ ±2.5ppm	PASS

LTE Band 7/41

LIE Ballu 1/41			
Test Item	FCC Rule No.	Requirements	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §27.50(h)	EIRP≤2W (LTE Band 7, 41)	PASS
Peak-Average Ratio	§2.1046 §27.50(a)	≤13dB	PASS
Modulation Characteristics	§2.1047	Digital modulation	PASS
Bandwidth	§2.1049(h)	OBW: No limit EBW: No limit	PASS
Band Edge Compliance	§2.1051 §27.53(m)	≤ -13dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block (LTE Band41) ≤ -13dBm (LTE Band7, <5.5MHz) ≤ -25dBm(LTE Band7, ≥5.5MHz)	PASS



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Spurious emissions at antenna terminals	§2.1051 §27.53(m)	≤ -13dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block (LTE Band41) ≤ -13dBm (LTE Band7, <5.5MHz) ≤ -25dBm(LTE Band7, ≥5.5MHz)	PASS
Field strength of spurious radiation	§2.1053 §27.53(m)	 ≤ -13dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block (LTE Band41) ≤ -13dBm (LTE Band7, <5.5MHz) ≤ -25dBm(LTE Band7, ≥5.5MHz) 	PASS
Frequency stability	§2.1055 §27.54	Within authorized bands of operation/ frequency block.	PASS

LTE Band 12/17

LIE Band 12/17			
Test Item	FCC Rule No.	Requirements	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §27.50(c)	ERP≤3W (LTE Band 12,17)	PASS
Peak-Average Ratio	§2.1046 §27.50(c)	≤13dB	PASS
Modulation Characteristics	§2.1047	Digital modulation	PASS
Bandwidth	§2.1049(h)	OBW: No limit EBW: No limit	PASS
Band Edge Compliance	§2.1051 §27.53(g)	≤ -13dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	PASS
Spurious emissions at antenna terminals	§2.1051 §27.53(g)	≤ -13 dBm/100 kHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges.	PASS
Field strength of spurious radiation	§2.1053 §27.53(g)	≤ -13dBm/100KHz	PASS
Frequency stability	§2.1055 §27.54	≤ ±2.5ppm	PASS



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LTE Band 13

Test Item	FCC Rule No.	Requirements	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §27.50(b)	ERP≤3W (LTE Band 13)	PASS
Peak-Average Ratio	§2.1046 §27.50(b)	≤13dB	PASS
Modulation Characteristics	§2.1047	Digital modulation	PASS
Bandwidth	§2.1049(h)	OBW: No limit EBW: No limit	PASS
Band Edge Compliance	§2.1051 §27.53(c)	≤ -13dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	PASS
Spurious emissions at antenna terminals	§2.1051 §27.53(c)(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, 775-788MHz, 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 −80dBW EIRP for discrete emissions of less than 700 Hz bandwidth.	PASS
Field strength of spurious radiation	§2.1053 §27.53(c)(f)	≤-13 dBm/100 kHz. For operations in the 746-758 MHz, 775-788MHz, 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 −80dBW EIRP for discrete emissions of less than 700 Hz bandwidth.	PASS
Frequency stability	§2.1055 §27.54	Within authorized bands of operation/ frequency block.	PASS



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LTE Band 14

Test Item	FCC Rule No.	Requirements	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §90.365	ERP≤3W (LTE Band 14)	PASS
Peak-Average Ratio	§2.1046	≤13dB	PASS
Modulation Characteristics	§2.1047	Digital modulation	PASS
Bandwidth	§2.1049(h)	OBW: No limit EBW: No limit	PASS
Band Edge Compliance	§2.1051 §90.543(e)	(1) On all frequencies between 769-775MHz and 799-805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations. (2) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations. (3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.	PASS
Spurious emissions at antenna terminals	§2.1051 §90.543(c)(f)	≤ -13 dBm/100 kHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges. For operations in the 758–775 MHz and 788–805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated	PASS
Field strength of spurious radiation	§2.1053 §90.543(c)(f)	≤-13 dBm/100 kHz. For operations in the 758–775 MHz and 788–805 MHz bands, all emissions including harmonics 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 §90.213	≤ ±2.5ppm	PASS
Emission Mask	§2.1051 §90.210(n)	Emission Mask B	PASS



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LTE Band 26(814MHz-824MHz)

Test Item	FCC	Paguiramento V		
rest item	Rule No.	Requirements	Verdict	
Effective (Isotropic)	§2.1046	EDD (100)M // TE Down 100/04 (MILE 00 (MILE))	PASS	
Radiated Power Output Data	§90.635	ERP≤100W (LTE Band 26(814MHz-824MHz))	PASS	
Peak-Average Ratio	§2.1046	≤13dB	PASS	
Modulation Characteristics	§2.1047	Digital modulation	PASS	
Bandwidth	§2.1049(h)	OBW: No limit	PASS	
Dariuwiuiii	32.1049(II)	EBW: No limit	FASS	
Band Edge Compliance	§2.1051	≤ -13dBm/1%*EBW, in 1 MHz bands immediately	PASS	
Bana Lage Compilance	§90.691	outside and adjacent to the frequency block.	1 700	
Spurious emissions at	§2.1051	≤ -13dBm/1%*EBW, in 1 MHz bands immediately	PASS	
antenna terminals	§90.691	outside and adjacent to the frequency block.	17.00	
Field strength of	§2.1053	≤ -13dBm/1%*EBW, in 1 MHz bands immediately	PASS	
spurious radiation	§90.691	outside and adjacent to the frequency block.	17.00	
Frequency stability	§2.1055	≤ ±2.5ppm	PASS	
1 roquonoy otability	§90.213		17.00	
Emission Mask	§2.1051 §90.691	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	



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4 General Information

4.1 Details of E.U.T.

Power supply: Switching Adapter

Model: ASSA13W-050300

Input: AC 100-240V, 50/60Hz, 0.6A Output: DC 5.0V, 3.0A, 15.0W

Battery

DESAY Model No.: 2532002 DC 3.7V, 5900mAh, 21.83Wh

DOCKING STATION Rating: DC 5V, 3A

Test Voltage: AC 120V, 60Hz or AC 240V, 50Hz

Note: Both nominal AC 120V, 60Hz and AC 240 V, 50Hz are required for testing in accordance with FCC KDB174176, this report only shows the results of the worst test result(AC 120V,

60Hz);

Cable(s): DC cable:98cm unshielded

Sample Type: Portable production

LTE Operation Frequency Band: LTE FDD Band 2, 4, 5, 7, 12, 13, 14, 17, 25, 26, 41

Modulation Type: QPSK, 16QAM

LTE Power Class: Level 3
Antenna Type: FPC
Antenna Gain: -1dBi;





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4.2 Test Frequency

	Nominal		RF Channel			
Test Mode	Bandwidth	Low (L)	Middle (M)	High (H)		
	(MHz)	MHz	MHz	MHz		
	1.4	1850.7	1880	1909.3		
	3	1851.5	1880	1908.5		
LTE FDD	5	1852.5	1880	1907.5		
Band 2	10	1855.0	1880	1905.0		
	15	1857.5	1880	1902.5		
	20	1860.0	1880	1900.0		
	Nominal		RF Channel			
Test Mode	Bandwidth	Low (L)	Middle (M)	High (H)		
	(MHz)	MHz	MHz	MHz		
	1.4	1710.7	1732.5	1754.3		
	3	1711.5	1732.5	1753.5		
LTE FDD	5	1712.5	1732.5	1752.5		
Band 4	10	1715.0	1732.5	1750.0		
	15	1717.5	1732.5	1747.5		
	20	1720.0	1732.5	1745.0		
	Nominal		RF Channel			
Test Mode	Bandwidth	Low (L)	Middle (M)	High (H)		
	(MHz)	MHz	MHz	MHz		
	1.4	824.7	836.5	848.3		
LTE FDD	3	825.5	836.5	847.5		
Band 5	5	826.5	836.5	846.5		
	10	829.0	836.5	844.0		
T 4	Nominal		RF Channel			
Test mode:	Bandwidth	Low (L)	Middle (M)	High (H)		
	(MHz)	MHz	MHz	MHz		
	5	2502.5	2535.0	2567.5		
LTE FDD	10	2505.0	2535.0	2565.0		
Band 7	15	2507.5	2535.0	2562.5		
	20	2510.0	2535.0	2560.0		



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	Nominal		RF Channel				
Test Mode	Bandwidth	Low (L)	Middle (M)	High (H)			
	(MHz)	MHz	MHz	MHz			
	1.4	699.7	707.5	715.3			
LTE FDD	3	700.5	707.5	714.5			
Band 12	5	701.5	707.5	713.5			
	10	704.0	707.5	711.0			
	Nominal		RF Channel				
Test mode:	Bandwidth	Low (L)	Middle (M)	High (H)			
	(MHz)	MHz	MHz	MHz			
LTE FDD	5	779.5	782.0	784.5			
Band 13	10	/	782.0	/			
	Nominal		RF Channel				
Test mode:	Bandwidth	Low (L)	Middle (M)	High (H)			
	(MHz)	MHz	MHz	MHz			
LTE FDD	5	790.5	793.0	795.5			
Band 14	10	/	793.0	/			
	Nominal Bandwidth	RF Channel					
Test mode:	(MHz)	Low (L)	Middle (M)	High (H)			
	(IVITIZ)	MHz	MHz	MHz			
LTE FDD	5	706.5	710.0	713.5			
Band 17	10	709.0	710.0	711.0			
	Nominal	RF Channel					
Test Mode	Bandwidth	Low (L)	Middle (M)	High (H)			
	(MHz)	MHz	MHz	MHz			
	1.4	1850.7	1882.5	1914.3			
	3	1851.5	1882.5	1913.5			
LTE FDD	5	1852.5	1882.5	1912.5			
Band 25	10	1855.0	1882.5	1910.0			
	15	1857.5	1882.5	1907.5			
	20	1860.0	1882.5	1905.0			



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	Nominal		RF Channel			
Test mode:	Bandwidth	Low (L)	Middle (M)	High (H)		
	(MHz)	MHz	MHz	MHz		
LTE FDD	1.4	814.7	819.0	823.3		
Band 26a	3	815.5	819.0	822.5		
(814MHz-	5	816.5	819.0	821.5		
824MHz)*	10	/	819.0	/		
	Nominal		RF Channel			
Test mode:	Bandwidth	Low (L)	Middle (M)	High (H)		
	(MHz)	MHz	MHz	MHz		
LTE FDD	1.4	824.7	836.5	848.3		
Band 26b	3	825.5	836.5	847.5		
(824MHz-	5	826.5	836.5	846.5		
849MHz)*	10	829.0	836.5	844.0		
	Nominal	RF Channel				
Test mode:	Bandwidth (MHz)	Low (L)	Middle (M)	High (H)		
		MHz	MHz	MHz		
	1.4	/	/	/		
LTE FDD Band 26c	3	/	/	/		
(814MHz-	5	/	/	/		
849MHz)*	10	/	/	/		
,	15	821.5	831.5	841.5		
	Nominal		RF Channel			
Test mode:	Bandwidth	Low (L)	Middle (M)	High (H)		
	(MHz)	MHz	MHz	MHz		
	5	2498.5	2593.0	2687.5		
LTE TDD	10	2501.0	2593.0	2685.0		
Band 41	15	2503.5	2593.0	2682.5		
	20	2506.0	2593.0	2680.0		

Note:

The frequency band of LTE Band26a is 814MHz-824MHz;

The frequency band of LTE Band26b is 824MHz-849MHz;

The frequency band of LTE Band26c is 814MHz-849MHz(only for Report Use);

The frequency band of LTE Band41 is 2496MHz-2690MHz;



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4.3 Test Environment

Environment Parameter	Selected Values During Tests				
Relative Humidity		52%			
Atmospheric Pressure:	1015Pa				
	TL	-30°C			
Temperature:	TN	+20°C			
	TH	+50°C			
	VL	3.14 V			
Voltage:	VN	3.7 V			
	VH	4.25 V			

NOTE: 1. 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 2. According to ANSI C63.26 requirements, the limit test temperature should be between -30°C and 50 °C.

4.4 Description of Support Units

The EUT has been tested independent unit.

4.5 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.25 x 10 ⁻⁸
2	Duty cycle	0.37%
3	Occupied Bandwidth	3%
4	RF conducted power	0.75dB
5	RF power density	2.84dB
6	Conducted Spurious emissions	0.75dB
7	DE Dadiated a succe	5.14dB (below 1GHz)
7	RF Radiated power	5.08dB (above 1GHz)
0	Dedicted Courieus emission test	5.14dB (below 1GHz)
8	Radiated Spurious emission test	5.08dB (above 1GHz)
9	Temperature test	1°C
10	Humidity test	3%
11	Supply voltages	1.5%
12	Time	3%



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4.6 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.



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4.7 Test Facility

• NVLAP (Lab Code: 200611-0)

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

• SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

• CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

• FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

• ISED (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

• CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.8 Deviation from Standards

None

4.9 Abnormalities from Standard Conditions

None



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5 Equipment List

RF test system					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2021-05-19	2022-05-18
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	MI CABLE SGS-EMC		EMC2136	2019-11-02	2021-11-01
EXA Signal Analzer(10Hz-44GHz)			EMC2138	2020-09-17	2021-09-16
Wideband Radio Communication Tester(CMW500)	R&S	CMW500	EMC2215	2020-09-20	2021-09-19

RE in Chamber(below 1GHz)							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
Chamber cable	HangTianXing	N/A	EMC0542	2020-09-09	2022-09-08		
Trilog Broadband Antenna(25MHz-1GHz)- Lab	SCHWARZBECK MESS-ELEKTRONIK	- VIII B 9168 SF		2019-02-22	2022-02-22		
Amplifier(9kHz-1.3GHz)	HP	8447F	EMC2065	2021-05-19	2022-05-18		
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19		
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A		
EMI Test Receiver(1Hz- 8GHz)	Rohde & Schwarz	ESW8	EMC2220	2021/5/26	2022/5/25		
Substitution Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22		
Signal Generator (10MHz-20GHz)	Rohde & Schwarz	SMR20	EMC0516	2021-01-11	2022-01-10		



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RE in Chamber(above 1	GHz)				
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver(20Hz- 26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-01-08	2022-01-07
Chamber cable(Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2020-09-09	2022-09-08
Horn Antenna(1GHz- 18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2021-01-08	2022-01-07
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2021-01-08	2022-01-07
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19
MXE EMI Receiver(10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2020-11-13	2021-11-12
EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	EMC2138	2020-09-17	2021-09-16
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Notch Filter (5150-5880)	Mico-Tronics	BRM50716	EMC2168	2021-07-29	2022-07-28
Horn Antenna(14- 40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27
Microwave Broadband Preamplifier (18-40GHz)	SCHWARZBECK	BBV 9721	EMC2172	2020-09-09	2021-09-08
Substitution Antenna	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24
Signal Generator (10MHz-20GHz)	Rohde & Schwarz	SMR20	EMC0516	2021-01-11	2022-01-10

General used equipment								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
DMM	Fluke	73	EMC0006	2021-07-05	2022-07-05			
DMM	Fluke	73	EMC0007	2021-07-05	2022-07-05			



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6 Radio Spectrum Matter Test Results

6.1 Effective (Isotropic) Radiated Power Output Data

Test Requirement: Reference test summary

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: Reference test summary

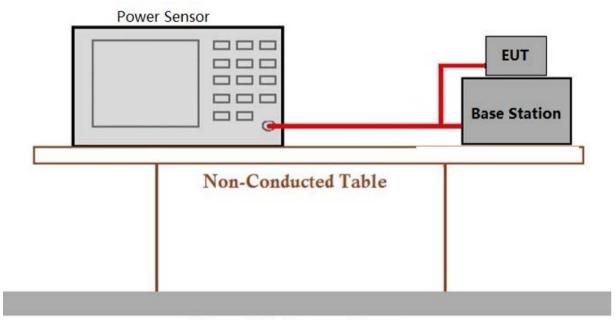
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 20.5 °C Humidity: 50.0 % RH Atmospheric Pressure: 1010 mbar

Test mode 46: 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_FCC_LTE_4G_RF power



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6.2 Peak-Average Ratio

Test Requirement: Reference test summary

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: ≤13dB

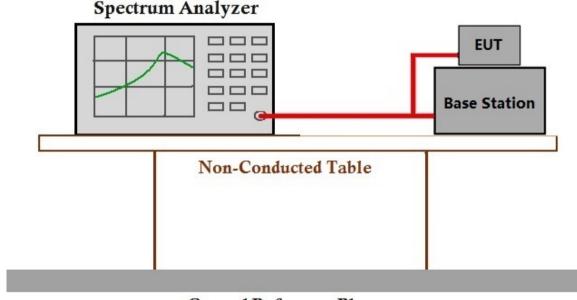
6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 20.5 °C Humidity: 50.0 % RH Atmospheric Pressure: 1010 mbar

Test mode 46: 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_FCC_LTE_4G_PAR



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6.3 Bandwidth

Test Requirement: Reference test summary

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: OBW: No limit EBW: No limit

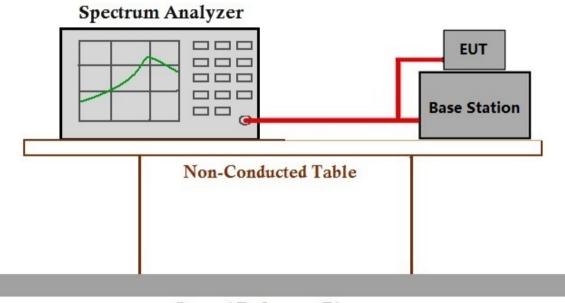
6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 20.5 °C Humidity: 50.0 % RH Atmospheric Pressure: 1010 mbar

Test mode 46: 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_FCC_LTE_4G_Bandwidth



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6.4 Band Edge Compliance

Test Requirement: Reference test summary

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: Reference test summary

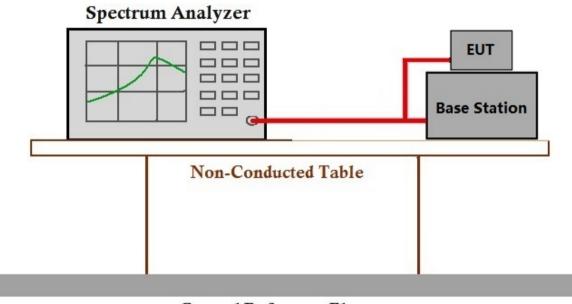
6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 20.5 °C Humidity: 50.0 % RH Atmospheric Pressure: 1010 mbar

Test mode 46: 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_FCC_LTE_4G_Bandedge



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6.5 Spurious emissions at antenna terminals

Test Requirement: Reference test summary

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: Reference test summary

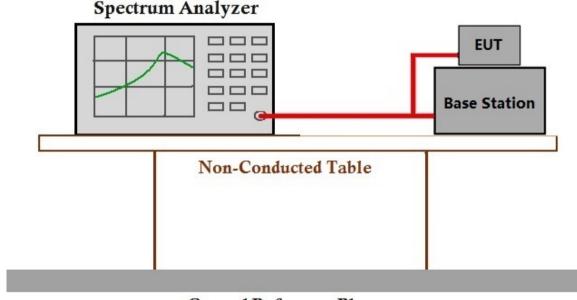
6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 20.5 °C Humidity: 50.0 % RH Atmospheric Pressure: 1010 mbar

Test mode 46: 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_FCC_LTE_4G_Spurious emission



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6.6 Emission Mask

Test Requirement: Reference test summary

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: Reference test summary

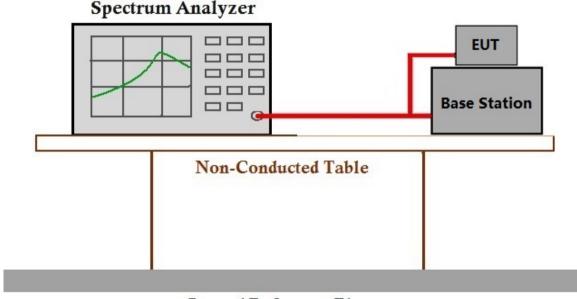
6.6.1 E.U.T. Operation

Operating Environment:

Temperature: 20.5 °C Humidity: 50.0 % RH Atmospheric Pressure: 1010 mbar

Test mode 46: Tx mode, Keep the EUT in transmitting mode.

6.6.2 Test Setup Diagram



Ground Reference Plane

6.6.3 Measurement Data

Please refer to Appendix_FCC_LTE_4G_Spurious emission



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6.7 Field strength of spurious radiation

Test Requirement: Reference test summary

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: Reference test summary

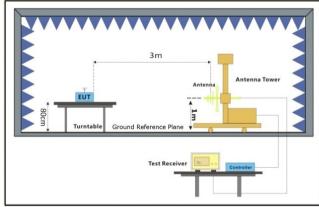
6.7.1 E.U.T. Operation

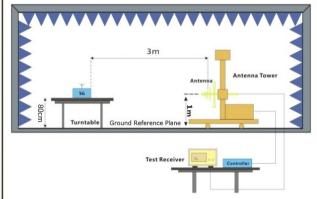
Operating Environment:

Temperature: 20.5 °C Humidity: 50.0 % RH Atmospheric Pressure: 1010 mbar

Test mode 46: Tx mode, Keep the EUT in transmitting mode.

6.7.2 Test Setup Diagram





EUT

Substiute Antenna+Signal Generator



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6.7.3 **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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	LTE Band 2-20MHz Low channel, Modulation: QPSK, 1 RB, 0 Offset									
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result		
3702	-51.4	-13	-38.4	-61.08	2.92	12.6	Horizontal	Pass		
5553	-47.6	-13	-34.6	-57.55	3.15	13.1	Horizontal	Pass		
7404	-44.43	-13	-31.43	-52.73	3.4	11.7	Horizontal	Pass		
3702	-50.43	-13	-37.43	-60.11	2.92	12.6	Vertical	Pass		
5553	-46.93	-13	-33.93	-56.88	3.15	13.1	Vertical	Pass		
7404	-44.37	-13	-31.37	-52.67	3.4	11.7	Vertical	Pass		

	LTE Band 2-20MHz Middle channel, Modulation: QPSK, 1 RB, 0 Offset									
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result		
3742	-50.71	-13	-37.71	-60.39	2.92	12.6	Horizontal	Pass		
5613	-48.01	-13	-35.01	-57.96	3.15	13.1	Horizontal	Pass		
7484	-44.32	-13	-31.32	-52.62	3.4	11.7	Horizontal	Pass		
3742	-51.66	-13	-38.66	-61.34	2.92	12.6	Vertical	Pass		
5613	-47.99	-13	-34.99	-57.94	3.15	13.1	Vertical	Pass		
7484	-44.8	-13	-31.8	-53.1	3.4	11.7	Vertical	Pass		

	LT	E Band 2-20N	/IHz High chan	nel, Modu	lation: QPSI	K, 1 RB, 0 C	ffset	
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3782	-49.86	-13	-36.86	-59.54	2.92	12.6	Horizontal	Pass
5673	-47.99	-13	-34.99	-57.94	3.15	13.1	Horizontal	Pass
7564	-44.79	-13	-31.79	-52.34	3.85	11.4	Horizontal	Pass
3782	-50.55	-13	-37.55	-60.23	2.92	12.6	Vertical	Pass
5673	-47.16	-13	-34.16	-57.11	3.15	13.1	Vertical	Pass
7564	-44.76	-13	-31.76	-52.31	3.85	11.4	Vertical	Pass



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Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
3422	-50.18	-13	-37.18	-58.69	2.99	11.5	Horizontal	Pass			
5133	-46.64	-13	-33.64	-56.34	3	12.7	Horizontal	Pass			
6844	-46.92	-13	-33.92	-56.34	3.08	12.5	Horizontal	Pass			
3422	-50.32	-13	-37.32	-58.83	2.99	11.5	Vertical	Pass			
5133	-47.02	-13	-34.02	-56.72	3	12.7	Vertical	Pass			
6844	-47.39	-13	-34.39	-56.81	3.08	12.5	Vertical	Pass			

	LTI	E Band 4-20M	Hz Middle cha	nnel, Mod	ulation: QPS	SK, 1 RB, 0	Offset	
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3447	-50.97	-13	-37.97	-59.48	2.99	11.5	Horizontal	Pass
5170.5	-47.56	-13	-34.56	-57.26	3	12.7	Horizontal	Pass
6894	-46.32	-13	-33.32	-55.74	3.08	12.5	Horizontal	Pass
3447	-49.79	-13	-36.79	-58.3	2.99	11.5	Vertical	Pass
5170.5	-47.26	-13	-34.26	-56.96	3	12.7	Vertical	Pass
6894	-45.4	-13	-32.4	-54.82	3.08	12.5	Vertical	Pass

	LTE Band 4-20MHz High channel, Modulation: QPSK, 1 RB, 0 Offset										
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
3472	-51.01	-13	-38.01	-59.52	2.99	11.5	Horizontal	Pass			
5208	-47.42	-13	-34.42	-57.12	3	12.7	Horizontal	Pass			
6944	-46.18	-13	-33.18	-55.6	3.08	12.5	Horizontal	Pass			
3472	-50.7	-13	-37.7	-59.21	2.99	11.5	Vertical	Pass			
5208	-46.66	-13	-33.66	-56.36	3	12.7	Vertical	Pass			
6944	-46.43	-13	-33.43	-55.85	3.08	12.5	Vertical	Pass			



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	FDE	D LTE Band 5-	10MHz Low cl	hannel, Mo	odulation: QF	PSK, 1 RB, (0 Offset	
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1649	-54.32	-13	-41.32	-59.49	3.33	8.5	Horizontal	Pass
2473.5	-51.54	-13	-38.54	-58.54	3.4	10.4	Horizontal	Pass
3298	-49.55	-13	-36.55	-58.06	2.99	11.5	Horizontal	Pass
1649	-54.82	-13	-41.82	-59.99	3.33	8.5	Vertical	Pass
2473.5	-53.05	-13	-40.05	-60.05	3.4	10.4	Vertical	Pass
3298	-50.1	-13	-37.1	-58.61	2.99	11.5	Vertical	Pass

	FDD	LTE Band 5-1	0MHz Middle	channel, M	lodulation: C	PSK, 1 RB,	0 Offset	
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1664	-56.77	-13	-43.77	-61.94	3.33	8.5	Horizontal	Pass
2496	-52.66	-13	-39.66	-59.66	3.4	10.4	Horizontal	Pass
3328	-49.27	-13	-36.27	-57.78	2.99	11.5	Horizontal	Pass
1664	-55.95	-13	-42.95	-61.12	3.33	8.5	Vertical	Pass
2496	-52.96	-13	-39.96	-59.96	3.4	10.4	Vertical	Pass
3328	-49.96	-13	-36.96	-58.47	2.99	11.5	Vertical	Pass

	FDD	LTE Band 5-	10MHz High c	hannel, Mo	odulation: Q	PSK, 1 RB,	0 Offset	
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1679	-56.19	-13	-43.19	-61.36	3.33	8.5	Horizontal	Pass
2518.5	-52.8	-13	-39.8	-60.19	3.21	10.6	Horizontal	Pass
3358	-50.39	-13	-37.39	-58.9	2.99	11.5	Horizontal	Pass
1679	-57.36	-13	-44.36	-62.53	3.33	8.5	Vertical	Pass
2518.5	-53.29	-13	-40.29	-60.68	3.21	10.6	Vertical	Pass
3358	-49.04	-13	-36.04	-57.55	2.99	11.5	Vertical	Pass



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	LTE Band 7-20MHz Low channel, Modulation: QPSK, 1 RB, 0 Offset										
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
5002	-47.66	-25	-22.66	-57.36	3	12.7	Horizontal	Pass			
7503	-43.9	-25	-18.9	-51.45	3.85	11.4	Horizontal	Pass			
10004	-43.63	-25	-18.63	-52.04	3.69	12.1	Horizontal	Pass			
5002	-48.15	-25	-23.15	-57.85	3	12.7	Vertical	Pass			
7503	-44.33	-25	-19.33	-51.88	3.85	11.4	Vertical	Pass			
10004	-43.69	-25	-18.69	-52.1	3.69	12.1	Vertical	Pass			

	LTI	E Band 7-20M	Hz Middle cha	nnel, Mod	ulation: QPS	SK, 1 RB, 0 (Offset	
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5052	-47.25	-25	-22.25	-56.95	3	12.7	Horizontal	Pass
7578	-45.25	-25	-20.25	-52.8	3.85	11.4	Horizontal	Pass
10104	-41.33	-25	-16.33	-49.74	3.69	12.1	Horizontal	Pass
5052	-47.2	-25	-22.2	-56.9	3	12.7	Vertical	Pass
7578	-45.56	-25	-20.56	-53.11	3.85	11.4	Vertical	Pass
10104	-41.77	-25	-16.77	-50.18	3.69	12.1	Vertical	Pass

	LTE Band 7-20MHz High channel, Modulation: QPSK, 1 RB, 0 Offset										
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
5102	-47.45	-25	-22.45	-57.15	3	12.7	Horizontal	Pass			
7653	-45.16	-25	-20.16	-52.71	3.85	11.4	Horizontal	Pass			
10204	-43.26	-25	-18.26	-51.67	3.69	12.1	Horizontal	Pass			
5102	-46.53	-25	-21.53	-56.23	3	12.7	Vertical	Pass			
7653	-44.7	-25	-19.7	-52.25	3.85	11.4	Vertical	Pass			
10204	-42.27	-25	-17.27	-50.68	3.69	12.1	Vertical	Pass			



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	FDD LTE Band 12-10MHz Low channel, Modulation: QPSK, 1 RB, 0 Offset										
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
1399	-54.57	-13	-41.57	-58	2.57	6	Horizontal	Pass			
2098.5	-47.98	-13	-34.98	-54.98	3.4	10.4	Horizontal	Pass			
2798	-52.82	-13	-39.82	-60.21	3.21	10.6	Horizontal	Pass			
1399	-51.19	-13	-38.19	-54.62	2.57	6	Vertical	Pass			
2098.5	-49.72	-13	-36.72	-56.72	3.4	10.4	Vertical	Pass			
2798	-52.41	-13	-39.41	-59.8	3.21	10.6	Vertical	Pass			

	FDD LTE Band 12-10MHz Middle channel, Modulation: QPSK, 1 RB, 0 Offset										
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
1406	-55.36	-13	-42.36	-58.79	2.57	6	Horizontal	Pass			
2109	-47.58	-13	-34.58	-54.58	3.4	10.4	Horizontal	Pass			
2812	-50.75	-13	-37.75	-58.14	3.21	10.6	Horizontal	Pass			
1406	-51.76	-13	-38.76	-55.19	2.57	6	Vertical	Pass			
2109	-48.83	-13	-35.83	-55.83	3.4	10.4	Vertical	Pass			
2812	-51.01	-13	-38.01	-58.4	3.21	10.6	Vertical	Pass			

	FDD	LTE Band 12-	-10MHz High o	channel, M	lodulation: C	PSK, 1 RB,	0 Offset	
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1413	-55.99	-13	-42.99	-59.42	2.57	6	Horizontal	Pass
2119.5	-54.4	-13	-41.4	-61.4	3.4	10.4	Horizontal	Pass
2826	-50.15	-13	-37.15	-57.54	3.21	10.6	Horizontal	Pass
1413	-56.7	-13	-43.7	-60.13	2.57	6	Vertical	Pass
2119.5	-54.91	-13	-41.91	-61.91	3.4	10.4	Vertical	Pass
2826	-52.31	-13	-39.31	-59.7	3.21	10.6	Vertical	Pass



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	FDD I	TE Band 13-1	I 0MHz Middle	channel, N	Modulation:	QPSK, 1 RB	, 0 Offset	
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1555	-56.21	-13	-43.21	-61.38	3.33	8.5	Horizontal	Pass
2332.5	-51.71	-13	-38.71	-58.71	3.4	10.4	Horizontal	Pass
3110	-49.58	-13	-36.58	-58.09	2.99	11.5	Horizontal	Pass
1555	-58.44	-13	-45.44	-63.61	3.33	8.5	Vertical	Pass
2332.5	-52.03	-13	-39.03	-59.03	3.4	10.4	Vertical	Pass
3110	-51.37	-13	-38.37	-59.88	2.99	11.5	Vertical	Pass

	FDD I	LTE Band 14-1	I0MHz Middle	channel, N	Modulation: (QPSK, 1 RB	3, 0 Offset	
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1577	-57.03	-13	-44.03	-62.2	3.33	8.5	Horizontal	Pass
2365.5	-53.88	-13	-40.88	-60.88	3.4	10.4	Horizontal	Pass
3154	-49.98	-13	-36.98	-58.49	2.99	11.5	Horizontal	Pass
1577	-56.24	-13	-43.24	-61.41	3.33	8.5	Vertical	Pass
2365.5	-55.63	-13	-42.63	-62.63	3.4	10.4	Vertical	Pass
3154	-51.34	-13	-38.34	-59.85	2.99	11.5	Vertical	Pass

LTI	E Band 26	6a(814MHz-84	9MHz)-10MHz	z Low char	nel, Modula	tion: QPSK	1 RB, 0 Offset	
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1670.3	-56.85	-13	-43.85	-62.02	3.33	8.5	Horizontal	Pass
2505.45	-54.16	-13	-41.16	-61.55	3.21	10.6	Horizontal	Pass
3340.6	-49.45	-13	-36.45	-57.96	2.99	11.5	Horizontal	Pass
1670.3	-56.49	-13	-43.49	-61.66	3.33	8.5	Vertical	Pass
2505.45	-53.36	-13	-40.36	-60.75	3.21	10.6	Vertical	Pass
3340.6	-50.06	-13	-37.06	-58.57	2.99	11.5	Vertical	Pass



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	FDD	LTE Band 17	-10MHz Low o	hannel, M	odulation: Q	PSK, 1 RB,	0 Offset	
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1409	-53.78	-13	-40.78	-57.21	2.57	6	Horizontal	Pass
2113.5	-45.68	-13	-32.68	-52.68	3.4	10.4	Horizontal	Pass
2818	-50.86	-13	-37.86	-58.25	3.21	10.6	Horizontal	Pass
1409	-51.53	-13	-38.53	-54.96	2.57	6	Vertical	Pass
2113.5	-50.59	-13	-37.59	-57.59	3.4	10.4	Vertical	Pass
2818	-52.06	-13	-39.06	-59.45	3.21	10.6	Vertical	Pass

	FDD I	LTE Band 17-1	0MHz Middle	channel, N	Modulation:	QPSK, 1 RB	, 0 Offset	
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1411	-53.27	-13	-40.27	-56.7	2.57	6	Horizontal	Pass
2116.5	-47.04	-13	-34.04	-54.04	3.4	10.4	Horizontal	Pass
2822	-51.15	-13	-38.15	-58.54	3.21	10.6	Horizontal	Pass
1411	-48.81	-13	-35.81	-52.24	2.57	6	Vertical	Pass
2116.5	-48.31	-13	-35.31	-55.31	3.4	10.4	Vertical	Pass
2822	-51.7	-13	-38.7	-59.09	3.21	10.6	Vertical	Pass

	FDD	LTE Band 17-	-10MHz High o	channel, M	lodulation: C	PSK, 1 RB,	0 Offset	
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1413	-52.26	-13	-39.26	-55.69	2.57	6	Horizontal	Pass
2119.5	-48.63	-13	-35.63	-55.63	3.4	10.4	Horizontal	Pass
2826	-50.69	-13	-37.69	-58.08	3.21	10.6	Horizontal	Pass
1413	-51.2	-13	-38.2	-54.63	2.57	6	Vertical	Pass
2119.5	-48.17	-13	-35.17	-55.17	3.4	10.4	Vertical	Pass
2826	-50.98	-13	-37.98	-58.37	3.21	10.6	Vertical	Pass



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	LT	E Band 25-20	MHz Low char	nnel, Modu	lation: QPSI	K, 1 RB, 0 C	Offset	
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3702	-50	-13	-37	-59.68	2.92	12.6	Horizontal	Pass
5553	-46.78	-13	-33.78	-56.73	3.15	13.1	Horizontal	Pass
7404	-45.43	-13	-32.43	-53.73	3.4	11.7	Horizontal	Pass
3702	-50.39	-13	-37.39	-60.07	2.92	12.6	Vertical	Pass
5553	-46.85	-13	-33.85	-56.8	3.15	13.1	Vertical	Pass
7404	-44.41	-13	-31.41	-52.71	3.4	11.7	Vertical	Pass

	LTE	Band 25-20N	IHz Middle cha	annel, Mod	lulation: QP	SK, 1 RB, 0	Offset	
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3747	-50.57	-13	-37.57	-60.25	2.92	12.6	Horizontal	Pass
5620.5	-47.11	-13	-34.11	-57.06	3.15	13.1	Horizontal	Pass
7494	-44.85	-13	-31.85	-53.15	3.4	11.7	Horizontal	Pass
3747	-51.67	-13	-38.67	-61.35	2.92	12.6	Vertical	Pass
5620.5	-47.01	-13	-34.01	-56.96	3.15	13.1	Vertical	Pass
7494	-45.04	-13	-32.04	-53.34	3.4	11.7	Vertical	Pass

	LT	E Band 25-20I	MHz High cha	nnel, Modu	ulation: QPS	K, 1 RB, 0 C	Offset	
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3792	-50.11	-13	-37.11	-59.79	2.92	12.6	Horizontal	Pass
5688	-47.28	-13	-34.28	-57.23	3.15	13.1	Horizontal	Pass
7584	-44.04	-13	-31.04	-51.59	3.85	11.4	Horizontal	Pass
3792	-49.53	-13	-36.53	-59.21	2.92	12.6	Vertical	Pass
5688	-48.05	-13	-35.05	-58	3.15	13.1	Vertical	Pass
7584	-45.4	-13	-32.4	-52.95	3.85	11.4	Vertical	Pass



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LT	E Band 2	6(824MHz-849	9MHz)-10MHz	Low chan	nel, Modulat	ion: QPSK,	1 RB, 0 Offset	
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1692.3	-56.38	-13	-43.38	-61.55	3.33	8.5	Horizontal	Pass
2538.45	-52.59	-13	-39.59	-59.98	3.21	10.6	Horizontal	Pass
3384.6	-48.99	-13	-35.99	-57.5	2.99	11.5	Horizontal	Pass
1692.3	-57.18	-13	-44.18	-62.35	3.33	8.5	Vertical	Pass
2538.45	-52.83	-13	-39.83	-60.22	3.21	10.6	Vertical	Pass
3384.6	-48.89	-13	-35.89	-57.4	2.99	11.5	Vertical	Pass

LTE	Band 26	(824MHz-849N	MHz)-10MHz N	Middle cha	nnel, Modula	ation: QPSK	X, 1 RB, 0 Offse	et
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1648.5	-56.59	-13	-43.59	-61.76	3.33	8.5	Horizontal	Pass
2472.75	-52.63	-13	-39.63	-59.63	3.4	10.4	Horizontal	Pass
3297	-50.51	-13	-37.51	-59.02	2.99	11.5	Horizontal	Pass
1648.5	-55.98	-13	-42.98	-61.15	3.33	8.5	Vertical	Pass
2472.75	-52.49	-13	-39.49	-59.49	3.4	10.4	Vertical	Pass
3297	-49.76	-13	-36.76	-58.27	2.99	11.5	Vertical	Pass

LTE Band 26(824MHz-849MHz)-10MHz High channel, Modulation: QPSK, 1 RB, 0 Offset									
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result	
1668.5	-56.05	-13	-43.05	-61.22	3.33	8.5	Horizontal	Pass	
2502.75	-53.69	-13	-40.69	-61.08	3.21	10.6	Horizontal	Pass	
3337	-49.95	-13	-36.95	-58.46	2.99	11.5	Horizontal	Pass	
1668.5	-58.33	-13	-45.33	-63.5	3.33	8.5	Vertical	Pass	
2504.25	-54.12	-13	-41.12	-61.51	3.21	10.6	Vertical	Pass	
3390	-49.04	-13	-36.04	-57.55	2.99	11.5	Vertical	Pass	



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Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result	
5012	-46.54	-25	-21.54	-56.24	3	12.7	Horizontal	Pass	
7518	-46.67	-25	-21.67	-54.22	3.85	11.4	Horizontal	Pass	
10024	-43.71	-25	-18.71	-52.12	3.69	12.1	Horizontal	Pass	
5012	-47.81	-25	-22.81	-57.51	3	12.7	Vertical	Pass	
7518	-46.12	-25	-21.12	-53.67	3.85	11.4	Vertical	Pass	
10024	-43.41	-25	-18.41	-51.82	3.69	12.1	Vertical	Pass	

LTE Band 41-20MHz Middle channel, Modulation: QPSK, 1 RB, 0 Offset									
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result	
5186	-46.74	-25	-21.74	-56.44	3	12.7	Horizontal	Pass	
7779	-45.81	-25	-20.81	-53.36	3.85	11.4	Horizontal	Pass	
10372	-43.6	-25	-18.6	-52.01	3.69	12.1	Horizontal	Pass	
5186	-47.44	-25	-22.44	-57.14	3	12.7	Vertical	Pass	
7779	-44.49	-25	-19.49	-52.04	3.85	11.4	Vertical	Pass	
10372	-42.69	-25	-17.69	-51.1	3.69	12.1	Vertical	Pass	

LTE Band 41-20MHz High channel, Modulation: QPSK, 1 RB, 0 Offset									
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result	
5360	-47.22	-25	-22.22	-56.92	3	12.7	Horizontal	Pass	
8040	-44.37	-25	-19.37	-52.21	3.46	11.3	Horizontal	Pass	
10720	-44.29	-25	-19.29	-52.32	3.77	11.8	Horizontal	Pass	
5360	-47.87	-25	-22.87	-57.57	3	12.7	Vertical	Pass	
8040	-44.62	-25	-19.62	-52.46	3.46	11.3	Vertical	Pass	
10720	-45.18	-25	-20.18	-53.21	3.77	11.8	Vertical	Pass	

Note: All modes have been tested and we found QPSK test mode has the worst test result. Only record the worst test result.

EIRP= S.G. Power- Cable loss+ Antenna Gain



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6.8 Frequency stability

Test Requirement: Reference test summary

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: Reference test summary

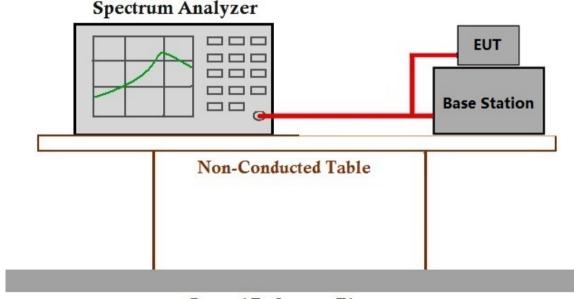
6.8.1 E.U.T. Operation

Operating Environment:

Temperature: 20.5 °C Humidity: 50.0 % RH Atmospheric Pressure: 1010 mbar

Test mode 46: Tx mode, Keep the EUT in transmitting mode.

6.8.2 Test Setup Diagram



Ground Reference Plane

6.8.3 Measurement Data

Please refer to Appendix_FCC_LTE_4G_Frequency stability



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6.9 Modulation Characteristics

Test Requirement: Reference test summary

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: Digital modulation

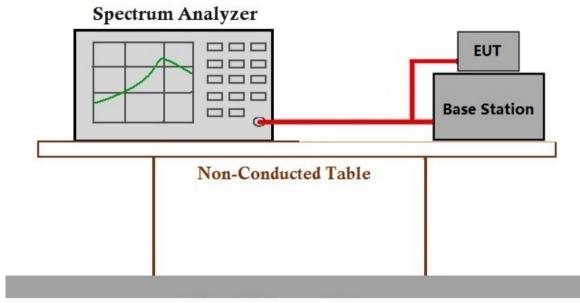
6.9.1 E.U.T. Operation

Operating Environment:

Temperature: 20.5 °C Humidity: 50.0 % RH Atmospheric Pressure: 1010 mbar

Test mode 46: Tx mode, Keep the EUT in transmitting mode.

6.9.2 Test Setup Diagram



Ground Reference Plane

6.9.3 Measurement Data

Please refer to Appendix_FCC_LTE_4G_Modulation Characteristics



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7 Test Setup Photo

Refer to appendix - setup photos for GZCR2108020805AT

8 EUT Constructional Details (EUT Photos)

Refer to appendix - external and internal photos for GZCR2108020805AT

- End of the Report -



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