



**SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch**

EMC-TRF-01 Rev 1.0

Report No.: GZCR211202159107

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FCC ID: 2AFD7-PST3

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: 7th Floor, 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: 2021-11-30
Date of Test: 2021-12-01 to 2021-12-30
Date of Issue: 2022-01-06

Test Result:	Pass
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* In the configuration tested, the EUT complied with the standards specified above.

Kobe Jian

Kobe Jian
EMC Laboratory Manager



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Guangzhou Branch EMC Laboratory

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-01-06		Original

Authorized for issue by				
				
		Curry Wu/Project Engineer		
				
		Ricky Liu/Reviewer		



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2 Test Summary

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

Test Item	FCC Rule No.	Requirements	Verdict
Field strength of spurious radiation	§2.1053 §22.917	$\leq -13\text{dBm}/100\text{KHz}$	PASS

LTE Band 2/25

Test Item	FCC Rule No.	Requirements	Verdict
Field strength of spurious radiation	§2.1053 §24.238	$\leq -13\text{dBm}/1\text{MHz}$	PASS

LTE Band 4

Test Item	FCC Rule No.	Requirements	Verdict
Field strength of spurious radiation	§2.1053 §27.53(h)	$\leq -13\text{dBm}/1\text{MHz}$	PASS

LTE Band 7/41

Test Item	FCC Rule No.	Requirements	Verdict
Field strength of spurious radiation	§2.1053 §27.53(m)	$\leq -13\text{dBm}/1\% \cdot \text{EBW}$, in 1 MHz bands immediately outside and adjacent to the frequency block (LTE Band41) $\leq -13\text{dBm}$ (LTE Band7, $<5.5\text{MHz}$) $\leq -25\text{dBm}$ (LTE Band7, $\geq 5.5\text{MHz}$)	PASS

LTE Band 12/17

Test Item	FCC Rule No.	Requirements	Verdict
Field strength of spurious radiation	§2.1053 §27.53(g)	$\leq -13\text{dBm}/100\text{KHz}$	PASS

LTE Band 13

Test Item	FCC Rule No.	Requirements	Verdict





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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
--------------------------------------	-------------------------	---	------

LTE Band 14

Test Item	FCC Rule No.	Requirements	Verdict
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

LTE Band 26(814MHz-824MHz)

Test Item	FCC Rule No.	Requirements	Verdict
Field strength of spurious radiation	§2.1053 §90.691	≤ -13dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	PASS



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4 General Information

4.1 Details of E.U.T.

Switching Adapter

Model: ASSA13W-050300

Input: AC 100-240V, 50/60Hz, 0.6A

Output: DC 5.0V, 3.0A, 15.0W

Power supply:

Battery

DESAY Model No.: 2532002

DC 3.7V, 5900mAh, 21.83Wh

DOCKING STATION

Rating: DC 5V, 3A

AC 120V, 60Hz or AC 240V, 50Hz

Test Voltage:

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

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





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Test Mode	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE FDD Band 12	1.4	699.7	707.5	715.3
	3	700.5	707.5	714.5
	5	701.5	707.5	713.5
	10	704.0	707.5	711.0
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE FDD Band 13	5	779.5	782.0	784.5
	10	/	782.0	/
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE FDD Band 14	5	790.5	793.0	795.5
	10	/	793.0	/
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE FDD Band 17	5	706.5	710.0	713.5
	10	709.0	710.0	711.0
Test Mode	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE FDD Band 25	1.4	1850.7	1882.5	1914.3
	3	1851.5	1882.5	1913.5
	5	1852.5	1882.5	1912.5
	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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Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE FDD Band 26a (814MHz-824MHz)*	1.4	814.7	819.0	823.3
	3	815.5	819.0	822.5
	5	816.5	819.0	821.5
	10	/	819.0	/
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE FDD Band 26b (824MHz-849MHz)*	1.4	824.7	836.5	848.3
	3	825.5	836.5	847.5
	5	826.5	836.5	846.5
	10	829.0	836.5	844.0
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE FDD Band 26c (814MHz-849MHz)*	1.4	/	/	/
	3	/	/	/
	5	/	/	/
	10	/	/	/
	15	821.5	831.5	841.5
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE TDD Band 41	5	2498.5	2593.0	2687.5
	10	2501.0	2593.0	2685.0
	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 Description of Support Units

The EUT has been tested independent unit.

4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.25×10^{-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	RF Radiated power	5.14dB (below 1GHz)
		5.08dB (above 1GHz)
8	Radiated Spurious emission test	5.14dB (below 1GHz)
		5.08dB (above 1GHz)
9	Temperature test	1°C
10	Humidity test	3%
11	Supply voltages	1.5%
12	Time	3%

4.5 Test Location

All tests were performed at:

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Guangzhou, China 510663

Tel: +86 20 82155555

Fax: +86 20 82075059

No tests were sub-contracted.



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4.6 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.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None





5 Equipment List

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	VULB 9168	SEM003-18	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

RE in Chamber(above 1GHz)					
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	2021-11-12	2022-11-11
EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-16	2022-09-15
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



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Microwave Broadband Preamplifier (18-40GHz)	SCHWARZBECK	BBV 9721	EMC2172	2021-09-08	2022-09-07
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

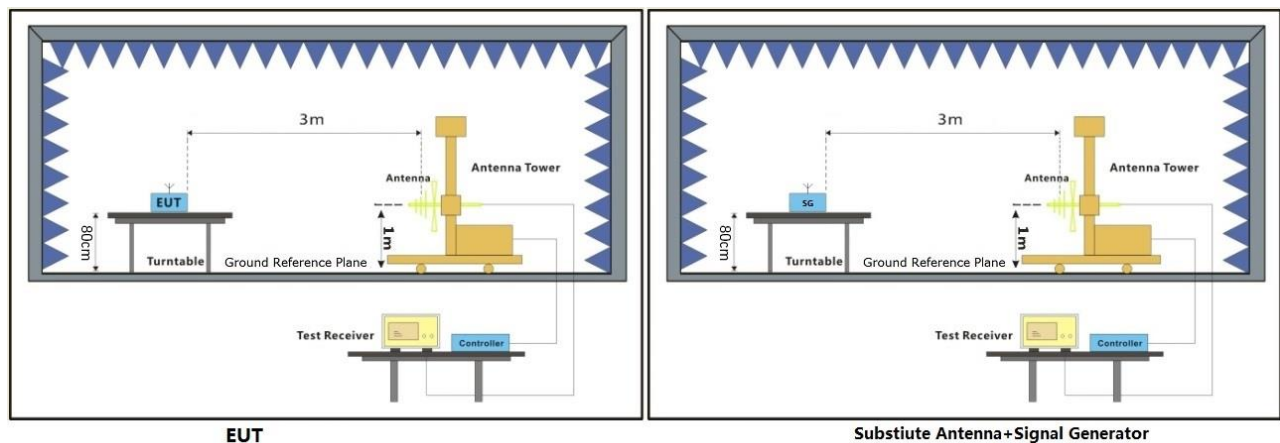
6.1 Field strength of spurious radiation

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: 21.7 °C Humidity: 53.8 % RH Atmospheric Pressure: 1020 mbar
 Test mode 46: Tx mode, Keep the EUT in transmitting mode.

6.1.2 Test Setup Diagram



6.1.3 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 then 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	-50.83	-13	-37.83	-60.51	2.92	12.6	Horizontal	Pass
5553	-45.94	-13	-32.94	-55.89	3.15	13.1	Horizontal	Pass
7404	-43.67	-13	-30.67	-51.97	3.4	11.7	Horizontal	Pass
3702	-48.08	-13	-35.08	-57.76	2.92	12.6	Vertical	Pass
5553	-46.47	-13	-33.47	-56.42	3.15	13.1	Vertical	Pass
7404	-43.48	-13	-30.48	-51.78	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	-48.87	-13	-35.87	-58.55	2.92	12.6	Horizontal	Pass
5613	-47.29	-13	-34.29	-57.24	3.15	13.1	Horizontal	Pass
7484	-42.89	-13	-29.89	-51.19	3.4	11.7	Horizontal	Pass
3742	-48.77	-13	-35.77	-58.45	2.92	12.6	Vertical	Pass
5613	-45.65	-13	-32.65	-55.6	3.15	13.1	Vertical	Pass
7484	-42.49	-13	-29.49	-50.79	3.4	11.7	Vertical	Pass

LTE Band 2-20MHz 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
3782	-50.5	-13	-37.5	-60.18	2.92	12.6	Horizontal	Pass
5673	-46.64	-13	-33.64	-56.59	3.15	13.1	Horizontal	Pass
7564	-43.77	-13	-30.77	-51.32	3.85	11.4	Horizontal	Pass
3782	-47.97	-13	-34.97	-57.65	2.92	12.6	Vertical	Pass
5673	-47.01	-13	-34.01	-56.96	3.15	13.1	Vertical	Pass
7564	-44.59	-13	-31.59	-52.14	3.85	11.4	Vertical	Pass



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LTE Band 4-20MHz 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
3422	-49.72	-13	-36.72	-58.23	2.99	11.5	Horizontal	Pass
5133	-46.8	-13	-33.8	-56.5	3	12.7	Horizontal	Pass
6844	-45.51	-13	-32.51	-54.93	3.08	12.5	Horizontal	Pass
3422	-52.3	-13	-39.3	-60.81	2.99	11.5	Vertical	Pass
5133	-47.3	-13	-34.3	-57	3	12.7	Vertical	Pass
6844	-46.82	-13	-33.82	-56.24	3.08	12.5	Vertical	Pass

LTE Band 4-20MHz 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
3447	-48.27	-13	-35.27	-56.78	2.99	11.5	Horizontal	Pass
5170.5	-45.64	-13	-32.64	-55.34	3	12.7	Horizontal	Pass
6894	-45.17	-13	-32.17	-54.59	3.08	12.5	Horizontal	Pass
3447	-48.7	-13	-35.7	-57.21	2.99	11.5	Vertical	Pass
5170.5	-45.99	-13	-32.99	-55.69	3	12.7	Vertical	Pass
6894	-45.56	-13	-32.56	-54.98	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	-50.38	-13	-37.38	-58.89	2.99	11.5	Horizontal	Pass
5208	-48	-13	-35	-57.7	3	12.7	Horizontal	Pass
6944	-45.45	-13	-32.45	-54.87	3.08	12.5	Horizontal	Pass
3472	-49.71	-13	-36.71	-58.22	2.99	11.5	Vertical	Pass
5208	-47.51	-13	-34.51	-57.21	3	12.7	Vertical	Pass
6944	-46.34	-13	-33.34	-55.76	3.08	12.5	Vertical	Pass



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FDD LTE Band 5-10MHz 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
1649	-51.9	-13	-38.9	-57.07	3.33	8.5	Horizontal	Pass
2473.5	-49.1	-13	-36.1	-56.1	3.4	10.4	Horizontal	Pass
3298	-49.57	-13	-36.57	-58.08	2.99	11.5	Horizontal	Pass
1649	-53.6	-13	-40.6	-58.77	3.33	8.5	Vertical	Pass
2473.5	-52.88	-13	-39.88	-59.88	3.4	10.4	Vertical	Pass
3298	-49.69	-13	-36.69	-58.2	2.99	11.5	Vertical	Pass

FDD LTE Band 5-10MHz 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
1664	-54.87	-13	-41.87	-60.04	3.33	8.5	Horizontal	Pass
2496	-52.97	-13	-39.97	-59.97	3.4	10.4	Horizontal	Pass
3328	-48.12	-13	-35.12	-56.63	2.99	11.5	Horizontal	Pass
1664	-53.66	-13	-40.66	-58.83	3.33	8.5	Vertical	Pass
2496	-51.98	-13	-38.98	-58.98	3.4	10.4	Vertical	Pass
3328	-48.46	-13	-35.46	-56.97	2.99	11.5	Vertical	Pass

FDD LTE Band 5-10MHz 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
1679	-54.3	-13	-41.3	-59.47	3.33	8.5	Horizontal	Pass
2518.5	-51.69	-13	-38.69	-59.08	3.21	10.6	Horizontal	Pass
3358	-49.2	-13	-36.2	-57.71	2.99	11.5	Horizontal	Pass
1679	-54.59	-13	-41.59	-59.76	3.33	8.5	Vertical	Pass
2518.5	-50.98	-13	-37.98	-58.37	3.21	10.6	Vertical	Pass
3358	-48.58	-13	-35.58	-57.09	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
5002	-46.71	-25	-21.71	-56.41	3	12.7	Horizontal	Pass
7503	-43.48	-25	-18.48	-51.03	3.85	11.4	Horizontal	Pass
10004	-41.63	-25	-16.63	-50.04	3.69	12.1	Horizontal	Pass
5002	-47.86	-25	-22.86	-57.56	3	12.7	Vertical	Pass
7503	-44.26	-25	-19.26	-51.81	3.85	11.4	Vertical	Pass
10004	-43.33	-25	-18.33	-51.74	3.69	12.1	Vertical	Pass

LTE Band 7-20MHz 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
5052	-46.75	-25	-21.75	-56.45	3	12.7	Horizontal	Pass
7578	-43.6	-25	-18.6	-51.15	3.85	11.4	Horizontal	Pass
10104	-41.01	-25	-16.01	-49.42	3.69	12.1	Horizontal	Pass
5052	-46.68	-25	-21.68	-56.38	3	12.7	Vertical	Pass
7578	-44.09	-25	-19.09	-51.64	3.85	11.4	Vertical	Pass
10104	-40.94	-25	-15.94	-49.35	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	-47.29	-25	-22.29	-56.99	3	12.7	Horizontal	Pass
7653	-43.96	-25	-18.96	-51.51	3.85	11.4	Horizontal	Pass
10204	-43.71	-25	-18.71	-52.12	3.69	12.1	Horizontal	Pass
5102	-47.88	-25	-22.88	-57.58	3	12.7	Vertical	Pass
7653	-44.76	-25	-19.76	-52.31	3.85	11.4	Vertical	Pass
10204	-42.86	-25	-17.86	-51.27	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	-52.6	-13	-39.6	-56.03	2.57	6	Horizontal	Pass
2098.5	-50.83	-13	-37.83	-57.83	3.4	10.4	Horizontal	Pass
2798	-51.92	-13	-38.92	-59.31	3.21	10.6	Horizontal	Pass
1399	-52.97	-13	-39.97	-56.4	2.57	6	Vertical	Pass
2098.5	-51.63	-13	-38.63	-58.63	3.4	10.4	Vertical	Pass
2798	-51.53	-13	-38.53	-58.92	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	-55.77	-13	-42.77	-59.2	2.57	6	Horizontal	Pass
2109	-49.79	-13	-36.79	-56.79	3.4	10.4	Horizontal	Pass
2812	-50.19	-13	-37.19	-57.58	3.21	10.6	Horizontal	Pass
1406	-52.81	-13	-39.81	-56.24	2.57	6	Vertical	Pass
2109	-49.28	-13	-36.28	-56.28	3.4	10.4	Vertical	Pass
2812	-50.96	-13	-37.96	-58.35	3.21	10.6	Vertical	Pass

FDD LTE Band 12-10MHz 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
1413	-53.81	-13	-40.81	-57.24	2.57	6	Horizontal	Pass
2119.5	-53.63	-13	-40.63	-60.63	3.4	10.4	Horizontal	Pass
2826	-51.25	-13	-38.25	-58.64	3.21	10.6	Horizontal	Pass
1413	-54.82	-13	-41.82	-58.25	2.57	6	Vertical	Pass
2119.5	-53.3	-13	-40.3	-60.3	3.4	10.4	Vertical	Pass
2826	-51.79	-13	-38.79	-59.18	3.21	10.6	Vertical	Pass



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FDD LTE Band 13-10MHz 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
1554.5	-55.48	-13	-42.48	-60.65	3.33	8.5	Horizontal	Pass
2331.75	-50.66	-13	-37.66	-57.66	3.4	10.4	Horizontal	Pass
3109	-50.11	-13	-37.11	-58.62	2.99	11.5	Horizontal	Pass
1554.5	-56.24	-13	-43.24	-61.41	3.33	8.5	Vertical	Pass
2331.75	-50.31	-13	-37.31	-57.31	3.4	10.4	Vertical	Pass
3109	-49.3	-13	-36.3	-57.81	2.99	11.5	Vertical	Pass

FDD LTE Band 14-10MHz 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
1586.5	-56.58	-13	-43.58	-61.75	3.33	8.5	Horizontal	Pass
2379.75	-52.59	-13	-39.59	-59.59	3.4	10.4	Horizontal	Pass
3173	-49.52	-13	-36.52	-58.03	2.99	11.5	Horizontal	Pass
1586.5	-56.97	-13	-43.97	-62.14	3.33	8.5	Vertical	Pass
2379.75	-53.85	-13	-40.85	-60.85	3.4	10.4	Vertical	Pass
3173	-49.29	-13	-36.29	-57.8	2.99	11.5	Vertical	Pass

FDD LTE Band 26a(814-849MHz)-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
1670.3	-55.42	-13	-42.42	-60.59	3.33	8.5	Horizontal	Pass
2505.45	-51.83	-13	-38.83	-59.23	3.2	10.6	Horizontal	Pass
3340.6	-48.83	-13	-35.83	-57.34	2.99	11.5	Horizontal	Pass
1670.3	-55.36	-13	-42.36	-60.53	3.33	8.5	Vertical	Pass
2505.45	-51.97	-13	-38.97	-59.36	3.21	10.6	Vertical	Pass
3340.6	-48.19	-13	-35.19	-56.7	2.99	11.5	Vertical	Pass



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FDD LTE Band 17-10MHz 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
1409	-52.75	-13	-39.75	-56.18	2.57	6	Horizontal	Pass
2113.5	-46.95	-13	-33.95	-53.95	3.4	10.4	Horizontal	Pass
2818	-51.41	-13	-38.41	-58.8	3.21	10.6	Horizontal	Pass
1409	-50.04	-13	-37.04	-53.47	2.57	6	Vertical	Pass
2113.5	-49.62	-13	-36.62	-56.62	3.4	10.4	Vertical	Pass
2818	-51.94	-13	-38.94	-59.33	3.21	10.6	Vertical	Pass

FDD LTE Band 17-10MHz 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
1411	-53.2	-13	-40.2	-56.63	2.57	6	Horizontal	Pass
2116.5	-45.71	-13	-32.71	-52.71	3.4	10.4	Horizontal	Pass
2822	-50.32	-13	-37.32	-57.71	3.21	10.6	Horizontal	Pass
1411	-50.57	-13	-37.57	-54	2.57	6	Vertical	Pass
2116.5	-46.24	-13	-33.24	-53.24	3.4	10.4	Vertical	Pass
2822	-50.32	-13	-37.32	-57.71	3.21	10.6	Vertical	Pass

FDD LTE Band 17-10MHz 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
1413	-50.02	-13	-37.02	-53.45	2.57	6	Horizontal	Pass
2119.5	-46.92	-13	-33.92	-53.92	3.4	10.4	Horizontal	Pass
2826	-51.91	-13	-38.91	-59.3	3.21	10.6	Horizontal	Pass
1413	-50.85	-13	-37.85	-54.28	2.57	6	Vertical	Pass
2119.5	-50.16	-13	-37.16	-57.16	3.4	10.4	Vertical	Pass
2826	-51.12	-13	-38.12	-58.51	3.21	10.6	Vertical	Pass



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LTE Band 25-20MHz 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	-50.08	-13	-37.08	-59.76	2.92	12.6	Horizontal	Pass
5553	-46.31	-13	-33.31	-56.26	3.15	13.1	Horizontal	Pass
7404	-43.09	-13	-30.09	-51.39	3.4	11.7	Horizontal	Pass
3702	-48.4	-13	-35.4	-58.08	2.92	12.6	Vertical	Pass
5553	-46.27	-13	-33.27	-56.22	3.15	13.1	Vertical	Pass
7404	-43.84	-13	-30.84	-52.14	3.4	11.7	Vertical	Pass

LTE Band 25-20MHz 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
3747	-47.16	-13	-34.16	-56.84	2.92	12.6	Horizontal	Pass
5620.5	-45.95	-13	-32.95	-55.9	3.15	13.1	Horizontal	Pass
7494	-43.75	-13	-30.75	-52.05	3.4	11.7	Horizontal	Pass
3747	-49.61	-13	-36.61	-59.29	2.92	12.6	Vertical	Pass
5620.5	-46.34	-13	-33.34	-56.29	3.15	13.1	Vertical	Pass
7494	-43.92	-13	-30.92	-52.22	3.4	11.7	Vertical	Pass

LTE Band 25-20MHz 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
3792	-49.9	-13	-36.9	-59.58	2.92	12.6	Horizontal	Pass
5688	-46.61	-13	-33.61	-56.56	3.15	13.1	Horizontal	Pass
7584	-44.84	-13	-31.84	-52.39	3.85	11.4	Horizontal	Pass
3792	-47.63	-13	-34.63	-57.31	2.92	12.6	Vertical	Pass
5688	-48.71	-13	-35.71	-58.66	3.15	13.1	Vertical	Pass
7584	-44.48	-13	-31.48	-52.03	3.85	11.4	Vertical	Pass



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LTE Band 26(824MHz-849MHz)-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
1649.5	-55.27	-13	-42.27	-60.44	3.33	8.5	Horizontal	Pass
2474.25	-52.84	-13	-39.84	-59.84	3.4	10.4	Horizontal	Pass
3299	-49.19	-13	-36.19	-57.7	2.99	11.5	Horizontal	Pass
1649.5	-56.12	-13	-43.12	-61.29	3.33	8.5	Vertical	Pass
2474.25	-52.35	-13	-39.35	-59.35	3.4	10.4	Vertical	Pass
3299	-48.05	-13	-35.05	-56.56	2.99	11.5	Vertical	Pass

LTE Band 26(824MHz-849MHz)-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
1659.5	-55.4	-13	-42.4	-60.57	3.33	8.5	Horizontal	Pass
2489.25	-51.62	-13	-38.62	-58.62	3.4	10.4	Horizontal	Pass
3319	-49.45	-13	-36.45	-57.96	2.99	11.5	Horizontal	Pass
1659.5	-55.54	-13	-42.54	-60.71	3.33	8.5	Vertical	Pass
2489.25	-50.75	-13	-37.75	-57.75	3.4	10.4	Vertical	Pass
3319	-47.9	-13	-34.9	-56.41	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
1669.5	-55.73	-13	-42.73	-60.9	3.33	8.5	Horizontal	Pass
2504.25	-52.5	-13	-39.5	-59.89	3.21	10.6	Horizontal	Pass
3339	-49.7	-13	-36.7	-58.21	2.99	11.5	Horizontal	Pass
1669.5	-56.64	-13	-43.64	-61.81	3.33	8.5	Vertical	Pass
2504.25	-52.96	-13	-39.96	-60.35	3.21	10.6	Vertical	Pass
3339	-49.27	-13	-36.27	-57.78	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	-45.69	-25	-20.69	-55.39	3	12.7	Horizontal	Pass
7518	-45.81	-25	-20.81	-53.36	3.85	11.4	Horizontal	Pass
10024	-41.14	-25	-16.14	-49.55	3.69	12.1	Horizontal	Pass
5012	-46.03	-25	-21.03	-55.73	3	12.7	Vertical	Pass
7518	-46	-25	-21	-53.55	3.85	11.4	Vertical	Pass
10024	-41.08	-25	-16.08	-49.49	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	-48.26	-25	-23.26	-57.96	3	12.7	Horizontal	Pass
7779	-44.28	-25	-19.28	-51.83	3.85	11.4	Horizontal	Pass
10372	-42.97	-25	-17.97	-51.38	3.69	12.1	Horizontal	Pass
5186	-46.99	-25	-21.99	-56.69	3	12.7	Vertical	Pass
7779	-44.14	-25	-19.14	-51.69	3.85	11.4	Vertical	Pass
10372	-43.24	-25	-18.24	-51.65	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	-46.76	-25	-21.76	-56.46	3	12.7	Horizontal	Pass
8040	-42.52	-25	-17.52	-50.36	3.46	11.3	Horizontal	Pass
10720	-43.03	-25	-18.03	-51.06	3.77	11.8	Horizontal	Pass
5360	-46.31	-25	-21.31	-56.01	3	12.7	Vertical	Pass
8040	-42.2	-25	-17.2	-50.04	3.46	11.3	Vertical	Pass
10720	-44.39	-25	-19.39	-52.42	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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7 Test Setup Photo

Refer to appendix - setup photos for GZCR2112021591AT

8 EUT Constructional Details (EUT Photos)

Refer to appendix - external and internal photos for GZCR2112021591AT

- End of the Report -

