



TEST REPORT

ETSI EN 303 413 V1.2.1 (2021-04)

Product : KidsTablet
Model Name : Q88,C1,C3,C5,C6,C8,C9,Q80,K1,K2,K3,K4,K5,K6,K7,K8,K9,T1,
T4,T5,T6,T7,T9,T8
Brand : BDF
Report No. : PTC26011002301E-EM06

Prepared for

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Prepared by

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1 TEST RESULT CERTIFICATION

Applicant's name : Shenzhen Bu Dong Feng Technology Co., Ltd
Address : 204, Factory building 2, No. 16 Kangzheng Road, Danzhutou Community, Nanwan Street, Longgang District, Shenzhen
Manufacture's name : Shenzhen Bu Dong Feng Technology Co., Ltd
Address : 204, Factory building 2, No. 16 Kangzheng Road, Danzhutou Community, Nanwan Street, Longgang District, Shenzhen
Product name : KidsTablet
Model name : Q88,C1,C3,C5,C6,C8,C9,Q80,K1,K2,K3,K4,K5,K6,K7,K8,K9,T1,T4,T5,T6,T7,T9,T8

This device described above has been tested by PTC, and the test results show that the equipment under test (EUT) is in compliance with the requirements as documented in this report. And it is applicable only to the tested sample identified in the report.

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Date of Test

Date (s) of performance of tests: Jan. 16, 2026 to Jan. 28, 2026
Date of Issue: Feb. 10, 2026
Test Result: **Pass**

Test Engineer:

Technical Manager:





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1. TEST RESULT CERTIFICATION

Product Name	:	KidsTablet
Model Name	:	Q88
Additional model	:	C1,C3,C5,C6,C8,C9,Q80,K1,K2,K3,K4,K5,K6,K7,K8,K9,T1,T4,T5,T6,T7,T9,T8
Models Difference	:	Model coverage: The differences between the main inspection model and this one are as follows: only the exterior color and camera position differ.
Power supply	:	DC20V
Hardware version	:	N/A
Software version	:	N/A
Frequency Bands	:	GPS(L1): 1559MHz-1610MHz;BDS (B1I):1559MHz-1610MHz;
Antenna Type	:	FPC antenna
Antenna Gain	:	0 dBi



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2. SETUP OF EQUIPMENT UNDER TEST

2.1 CONFIGURATION OF EUT

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

Remark:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

2.2 TEST FACTORY

Company Name:	Precise Testing & Certification (Guangdong) Co., Ltd.
Address:	Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China

2.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

Parameter	Uncertainty
RF output power, conducted	$\pm 1.0\text{dB}$
Power Spectral Density, conducted	$\pm 2.2\text{dB}$
Radio Frequency	$\pm 1 \times 10^{-6}$
Bandwidth	$\pm 1.5 \times 10^{-6}$
Time	$\pm 2\%$
Duty Cycle	$\pm 2\%$
Temperature	$\pm 1^\circ\text{C}$
Humidity	$\pm 5\%$
DC and low frequency voltages	$\pm 3\%$
Conducted Emissions(150kHz~30MHz)	$\pm 3.64\text{dB}$
Radiated Emission(30MHz~1GHz)	$\pm 5.03\text{dB}$
Radiated Emission(1GHz~25GHz)	$\pm 4.74\text{dB}$



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2.4 EQUIPMENTS LIST FOR ALL TEST ITEMS

RF Conducted Test							
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	EMC Analyzer (9k~26.5GHz)	Agilent	E4407B	MY45109572	Aug.14, 2025	Aug.13, 2026	1 Year
2	EXA Signal Analyzer	Keysight	N9010A	MY50520207 526B25MPB W7X	Aug.14, 2025	Aug.13, 2026	1 Year
3	EMI Test Receiver	R&S	ESCI	101155	Aug.14, 2025	Aug.13, 2026	1 Year
Radiated Emissions							
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	EMI Test Receiver	Rohde&Schwarz	ESCI	101417	Aug.14, 2025	Aug.13, 2026	1 Year
2	Trilog Broadband Antenna	SCHWARZB ECK	VULB9160	9160-3355	Aug.14, 2025	Aug.13, 2026	1 Year
3	Amplifier	EM	EM-30180	060538	Aug.14, 2025	Aug.13, 2026	1 Year
4	Horn Antenna	SCHWARZB ECK	BBHA9120 D	9120D-1 246	Aug.14, 2025	Aug.13, 2026	1 Year
5	Loop Antenna	SCHWARZB ECK	FMZB1516	9130D-1 243	Aug.14, 2025	Aug.13, 2026	1 Year
6	3m Anechoic Chamber	CHENGYU	966	PTC-002	Aug.14, 2025	Aug.13, 2026	1 Year
Conducted Emissions							
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	EMI Test Receiver	R&S	ESCI	101155	Aug.14, 2025	Aug.13, 2026	1 Year
2	LISN	SCHWARZB ECK	NSLK 8128	8128-289	Aug.14, 2025	Aug.13, 2026	1 Year
3	Cable	LARGE	RF300	-	Aug.14, 2025	Aug.13, 2026	1 Year
4	Shielded room	CHENGYU	843	PTC-001	Aug.14, 2025	Aug.13, 2026	1 Year

NOTE: Equipments listed above have been calibrated and are in the period of validation.



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3. TEST METHODOLOGY

3.1 GENERAL DESCRIPTION OF APPLIED STANDARDS

Clause	Description of Test Item	Remarks	Results
Receiver Parameters			
5.4	Receiver blocking	N/A	PASS
5.5	Receiver spurious emissions	N/A	PASS

3.2 TEST MODES

The EUT has been tested under normal operating and standby condition. Control the EUT for staying in continuous receiving mode for testing.

The field strength of spurious radiation emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The following data show only with the worst case setup.

The worst case of Y axis without was reported.

3.3 ENTAL CONDITIONS

During the measurement the environmental conditions were within the listed ranges:

- Temperature: 15-35°C
- Humidity: 30-60 %
- Atmospheric pressure: 86-106 kPa



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4. RECEIVER SPURIOUS EMISSIONS

4.1 APPLIED PROCEDURES / LIMIT

Frequency range	Maximum power	Bandwidth
30 MHz to 1 GHz	-57 dBm	100 kHz
1 GHz to 8,3 GHz	-47 dBm	1 MHz

4.2 MEASURING INSTRUMENTS AND SETTING

The following table is the setting of the Spectrum Analyzer.

Spectrum Analyzer	Setting
Attenuation	Auto
Start Frequency	25 MHz
Stop Frequency	8.3GHz
Detector	Positive Peak
Sweep Time	Auto
RB / VB	100 kHz / 100 kHz

4.3 TEST PROCEDURES

- The EUT was placed on the top of the turntable in open test site area.
- The test shall be made in the receiving mode. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- For 30MHz~8.3 GHz spurious emissions measurement, the broad band bi-log receiving antenna was placed 3 meters far away from the turntable.
The broadband receiving antenna was fixed on the same height with the EUT to find
- each suspected emissions of both horizontal and vertical polarization. Each recorded suspected value is indicated as Read Level (Raw).
- Replace the EUT by standard antenna and feed the RF port by signal generator.
- Adjust the frequency of the signal generator to the suspected emission and slightly rotate the turntable to locate the position with maximum reading.
- Adjust the power level of the signal generator to reach the same reading with Read Level (Raw).
The level of the spurious emission is the power level of (7) plus the gain of the standard
- antenna in dBi and minus the loss of the cable used between the signal generator and the standard antenna.



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- i. The measurement shall be repeated at the lowest and the highest channel of the stated frequency range.

4.4 EUT OPERATION DURING TEST

The EUT was programmed to be in continuously receiving mode.

4.5 TEST RESULTS (30MHZ-16000MHZ)

30MHz to 8.3GHz

Frequency (MHz)	Maximum Emission (dBm)	Polarization (H/V)	Limit (dBm)	Margin (dB)	Corr. (dB)
2284.51	-59.37	H	-47	12.37	-91.1
4911.26	-66.08	H	-47	19.08	-101.3
7133.98	-63.52	H	-47	16.52	-99.3
2258.39	-61	V	-47	14	-92
4159.92	-66.92	V	-47	19.92	-103
7001.29	-62.56	V	-47	15.56	-98.9

Note: 1. Margin= Limit- Maximum Emission.

2. Only the worst mode(GPS(L1)) is recorded in the report.

Test Result:

Pass



5. RECEIVER BLOCKING

5.1 APPLIED PROCEDURES / LIMIT

According to ETSI EN 303 413 V1.2.1 §4.2.1.2

Table 4-1: GNSS constellations, GNSS signals and RNSS frequency bands

GNSS Constellation	GNSS Signal Designations	RNSS Frequency Band (MHz)
BDS	B1I	1 559 to 1 610
	B1C	1 559 to 1 610
Galileo	E1	1 559 to 1 610
	E5a	1 164 to 1 215
	E5b	1 164 to 1 215
	E6	1 215 to 1 300
GLONASS	G1	1 559 to 1 610
	G2	1 215 to 1 300
GPS	L1	1 559 to 1 610
	L1C	1 559 to 1 610
	L2C	1 215 to 1 300
	L5	1 164 to 1 215
SBAS	L1	1 559 to 1 610
	L5	1 164 to 1 215

Table 4-2: Frequency bands, blocking signal test point centre frequencies and power levels for the 1559 MHz to 1 610 MHz RNSS band

Frequency band (MHz)	Test point centre frequency (MHz)	Blocking signal power level (dBm)	Comments
1 518 to 1 525	1	-65	MSS (space-to-Earth)
1 525 to 1 549	1	-95	MSS (space-to-Earth)
1 549 to 1 559	1	-105	MSS (space-to-Earth)
1 559 to 1 610		GUE RNSS band under test	
1 610 to 1 626	1	-105	MSS (Earth-to-space)
1 626 to 1 640	1	-85	MSS (Earth-to-space)

Table 4-3: Frequency bands, blocking signal test point centre frequencies and power levels for the 1 164 MHz to 1 300 MHz RNSS band

Frequency band (MHz)	Test point centre frequency (MHz)	Blocking signal power level (dBm)	Comments
960 to 1 164	1 154	-75	AM(R)S, ARNS
1 164 to 1 215		GUE RNSS band under test	
1 215 to 1 260		GUE RNSS band under test	
1 260 to 1 300		GUE RNSS band under test	
1 300 to 1 350	1 310	-85	Radiolocation, ARNS, RNSS

Table 4-4: Blocking signal

Parameter	Value	Comments
Frequency	See table 4-2 and table 4-3	
Power level	See table 4-2 and table 4-3	
Bandwidth	1 MHz	See clause B.1 for details
Format	AWGN	



5.2 TEST PROCEDURES

- 1) Configure the GNSS signal generator to simulate the GNSS constellations and GNSS signals from table 4-1 declared as supported by the GUE, with power levels and other details as specified in clause B.2.
- 2) With the blocking signal switched off, the EUT shall be given sufficient time to acquire all simulated satellites from the declared GNSS constellations.
- 3) Record the C/N0 value(s) reported by the EUT under the condition in step 2). Sufficient filtering shall be used to obtain stable value(s). C/N0 may be averaged over time and across all the simulated satellites for a particular GNSS constellation and GNSS signal. However, C/N0 shall not be averaged across different satellite signals in the same GNSS constellation or across different GNSS constellations. For a multi-GNSS constellation and/or multi-GNSS signal EUT, there shall be a separate C/N0 value recorded for each GNSS constellation and each GNSS signal supported.
- 4) The blocking signal generator shall be configured to generate the signal defined in table 4-4, at the first test point centre frequency and signal power level as specified in table 4-2.
- 5) The blocking signal shall be switched on, and the EUT's C/N0 value(s) recorded as in step 3). The difference(s) between this value(s) and the value(s) recorded in step 3) is the C/N0 degradation caused by the blocking signal for this test point.
- 6) Test point Pass/Fail Criteria: If the C/N0 degradation from step 5) does not exceed the value in equation (4-1), then this test point is set to "pass". If the C/N0 degradation exceeds the value in equation (4-1), then this test point is set to "fail". For a multi-GNSS constellation and/or multi-GNSS signal EUT, there shall be a separate pass/fail determination for each GNSS constellation and for each GNSS signal supported. If the C/N0 degradation exceeds the value in equation (4-1) for any supported GNSS constellation or supported GNSS signal, then this test point is set to "fail".
- 7) The adjacent frequency signal generator shall be configured to generate the signal defined in table 4-4, at the first test point centre frequency and signal power level as specified in table 4-2.
- 8) Step 1) through step 6) shall be repeated for all test point centre frequencies (and associated signal power level) specified in table 4-2.

Test method for GUE utilizing the 1 164 MHz to 1 300 MHz RNSS band

For a GUE also utilizing the RNSS bands in the 1 164 MHz to 1 300 MHz range, the test method in clause 5.4.3 (step 1) through step 7), inclusive), shall be repeated using the blocking test point centre frequencies and associated signal power levels specified in table 4-3.

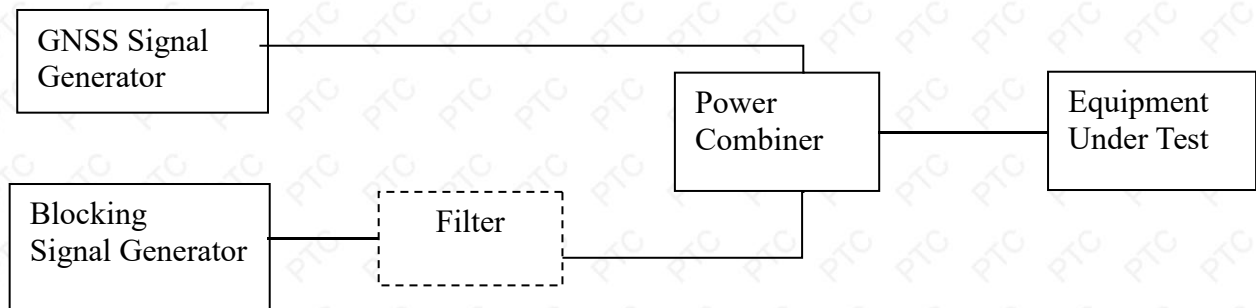
If the EUT passes the C/N0 degradation tests as defined in both clause 5.4.3 and clause 5.4.4, the EUT shall be deemed to "pass". If the C/N0 degradation test fails tests as defined in either or both of clause 5.4.3 or clause 5.4.4, the EUT shall be deemed to "fail".



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5.3 TEST SETUP LAYOUT

TEST CONFIGURATION



Conducted measurement setup for EUT receiver blocking

The EUT was programmed to be in continuously receive mode.



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5.4 TEST RESULTS

Test results for the 1 559 MHz to 1 610 MHz RNSS band :

Frequency band (MHz)	Test point centre frequency (MHz)	Blocking signal power level (dBm)	Measured C/N0 (dB-Hz)		Decrease of C/N0	Requirement	Verdict
	From table 4-2	From table 4-2	No blocking signal	With blocking signal			
1 518 to 1 525	1524	-65	39.2	39.1	0.1	Decrease $\leq$ 1 dB	Pass
1 525 to 1 549	1548	-95	39.2	39.0	0.2		Pass
1 549 to 1 559	1554	-105	39.2	38.9	0.3		Pass
1 610 to 1 626	1615	-105	39.2	39.0	0.2		Pass
1 626 to 1 640	1627	-85	39.2	39.1	0.1		Pass

Test results for the 1215MHz-1300MHz MHz band :

Frequency band (MHz)	Test point centre frequency (MHz)	Blocking signal power level (dBm)	Measured C/N0 (dB-Hz)		Decrease of C/N0	Requirement	Verdict
	From table 4-3	From table 4-3	No blocking signal	With blocking signal			
960 to 1164	1154	-75	47.56	47.40	0.16	Decrease $\leq$ 1 dB	Pass
1300 to 1350	1310	-85	47.56	47.42	0.14		Pass

Test Result:
Pass



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6. TEST SETUP PHOTOGRAPHS

Photo of Radiation Spurious Emission Below 1 GHz

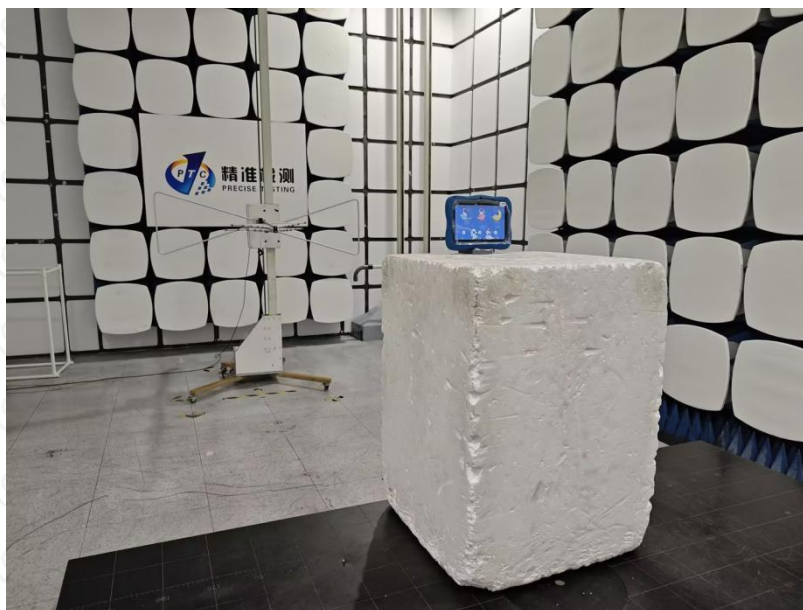


Photo of Radiation Spurious Emission Above 1 GHz



*****THE END REPORT*****