

FCC Test Report

Report Reference No......: HK2507083703-2E

FCC ID.....: 2BRDV-IV-TC21

Compiled by

(position+printed name+signature)..: Testing Engineer Len Liao

Supervised by

(position+printed name+signature)..: Technical Manager Sliver Wan

Approved by

(position+printed name+signature)..: Authorized Signatory Jason Zhou

Len Liao
Sliver Wan
Jason Zhou

Date of issue.....: Aug. 26, 2025

Testing Laboratory Name: **Shenzhen HUAKE Testing Technology Co., Ltd.**

Address: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Applicant's name.....: **Shishi Technology (Shenzhen) Co., Ltd.**

Address: Room 2101, Huichao Technology Building, 12 Jinhai Road, Bao'an District, Shenzhen City, Guangdong Province, China

Test specification

Standard: **FCC CFR Title 47 Part 2, Part 24E**

TRF Originator.....: Shenzhen HUAKE Testing Technology Co., Ltd.

Shenzhen HUAKE Testing Technology Co., Ltd. All rights reserved.

This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen HUAKE Testing Technology Co., Ltd. as copyright owner and source of the material. Shenzhen HUAKE Testing Technology Co., Ltd. takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

Test item description: The Solar 4G AI Trail Camera

Trade Mark: N/A

Manufacturer.....: **Shishi Technology (Shenzhen) Co., Ltd.**

Model/Type reference.....: IV-TC21

Series Models: IV-TC

Modulation Type: QPSK, 16QAM

Rating: DC 5V From Type-C or DC 3.7V From Battery

Hardware version: V1.0

Software version.....: V1.0

Result.....: **PASS**

TEST REPORT

Test Report No. :	HK2507083703-2E	Aug. 26, 2025
		Date of issue

Equipment under Test : The Solar 4G AI Trail Camera

Model /Type : IV-TC21

Series Models : IV-TC

Applicant : **Shishi Technology (Shenzhen) Co., Ltd.**

Address : Room 2101, Huichao Technology Building, 12 Jinhai Road,
Bao'an District, Shenzhen City, Guangdong Province,
China

Manufacturer : **Shishi Technology (Shenzhen) Co., Ltd.**

Address : Room 2101, Huichao Technology Building, 12 Jinhai Road,
Bao'an District, Shenzhen City, Guangdong Province,
China

Test Result:	PASS
---------------------	-------------

The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Contents

1	Test Standards	5
2	Summary	6
2.1	General Remarks	6
2.2	Product Description	6
2.3	Equipment Under Test	6
2.4	Short Description of The Equipment Under Test (EUT)	7
2.5	Test Frequency List	7
2.6	Normal Accessory Setting	7
2.7	EUT Configuration	7
2.8	Related Submittal(s) / Grant (s)	8
2.9	Modifications	8
2.10	General Test Conditions/Configurations	8
3	Test Environment	9
3.1	Information of The Test Laboratory	9
3.2	Environmental Conditions	9
3.3	Test Description	9
3.4	Equipments Used During The Test	10
4	Test Conditions and Results	11
4.1	Output Power	11
4.2	Peak-to-Average Ratio (PAR)	21
4.3	Occupied Bandwidth and Emission Bandwidth	28
4.4	Band Edge Compliance	35
4.5	Spurious Emission on Antenna Port	42
4.6	Radiated Spurious Emission	61
4.7	Frequency Stability	69
5	Test Setup Photos of the EUT	71
6	Photos of the EUT	73

**** Modified History ****

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Aug. 26, 2025	Jason Zhou

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.

1 Test Standards

The tests were performed according to following standards:

[FCC Part 24](#):Public Mobile Services.

[TIA/EIA 603 D June 2010](#):Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

[47 CFR FCC Part 15 Subpart B](#): Unintentional Radiators.

[FCC Part 2](#): Frequency Allocations And Radio Treaty Matters; General Rules And Regulations.

[KDB971168 D01:v03r01](#):Measurement Guidance For Certification Of Licensed Digital Transmitters.

[ANSI C63.4:2014](#):Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.

2 Summary

2.1 General Remarks

Date of receipt of test sample	:	Jul. 08, 2025
Testing commenced on	:	Jul. 08, 2025
Testing concluded on	:	Aug. 26, 2025

2.2 Product Description

The **Shishi Technology (Shenzhen) Co., Ltd.**'s Model: I16 Pro max or the "EUT" as referred to in this report; more general information as follows, for more details, refer to the user's manual of the EUT.

Name of EUT:	The Solar 4G AI Trail Camera
Model/Type reference:	IV-TC21
Series Models:	IV-TC
Model Difference:	All model's the function, software and electric circuit are the same, only with a product model named different. Test sample mode: IV-TC21.
Power supply:	DC 5V From Type-C or DC 3.7V From Battery
Modulation Type:	QPSK, 16QAM
Antenna Type:	External Antenna
Antenna Gain:	2.57dBi
Operation Frequency Band:	LTE Band 2
Operation frequency:	LTE Band 2: 1850~1910 MHz(TX), 1930~1990 MHz(TX)
LTE Release:	R8
Extreme temp. Tolerance:	-30°C to +70°C
Extreme vol. Limits:	4.25VDC to 5.75VDC (nominal: 5.0VDC)
Note: 1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. 2. Antenna gain Refer to the antenna specifications. 3. The cable loss data is obtained from the supplier. 4. The test results in the report only apply to the tested sample.	

2.3 Equipment Under Test

Power supply system utilised

Power supply voltage	:	☐ 120V/ 60 Hz	☐ 115V/60Hz
		☐ 12 V DC	☐ 24 V DC
		☒ Other (specified in blank below)	

DC 5V From Type-C or DC 3.7V From Battery

2.4 Short Description of The Equipment Under Test (EUT)

2.4.1 General Description

This is a The Solar 4G AI Trail Camera.

For more details, refer to the user's manual of the EUT.

2.5 Test Frequency List

TX Channel Bandwidth	Frequency (MHz)	channel
1.4 MHz	1850.7	18607
	1880.0	18900
	1909.3	19193
3 MHz	1851.5	18615
	1880.0	18900
	1908.5	19185
5 MHz	1852.5	18625
	1880.0	18900
	1907.5	19175
10 MHz	1855.0	18650
	1880.0	18900
	1905.0	19150
15 MHz	1857.5	18675
	1880.0	18900
	1902.5	19125
20 MHz	1860.0	18700
	1880.0	18900
	1900.0	19100

2.6 Normal Accessory Setting

Fully charged battery was used during the test.

2.7 EUT Configuration

The following peripheral devices and interface cables were connected during the measurement:

● - supplied by the manufacturer

○ - supplied by the lab

○ Power Cable	Length (m) :	/
	Shield :	/
	Detachable :	/
○ Multimeter	Manufacturer :	/
	Model No. :	/

2.8 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: 2BRDV-IV-TC21** filing to comply with FCC Part 24, Rules.

2.9 Modifications

No modifications were implemented to meet testing criteria.

2.10 General Test Conditions/Configurations

2.10.1 Test Environment

Environment Parameter	Selected Values During Tests	
Relative Humidity	Ambient	
Temperature	TN	Ambient
Voltage	VL	4.25V
	VN	5.0V
	VH	5.75V

NOTE: VL=lower extreme test voltage VN=nominal voltage
VH=upper extreme test voltage TN=normal temperature

3 Test Environment

3.1 Information of The Test Laboratory

Shenzhen HUAKE Testing Technology Co., Ltd.
Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping,
Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization:

A2LA Accreditation Code is 4781.01.
FCC Designation Number is CN1229.
Canada IC CAB identifier is CN0045.
CNAS Registration Number is L9589.

3.2 Environmental Conditions

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

Temperature:	15-35 ° C
Humidity:	30-60 %
Atmospheric pressure:	950-1050mbar

3.3 Test Description

PCSBand (1850-1915MHz pairedwith 1930-1995MHz)

Test Item	FCCRuleNo.	Requirements	Verdict
Effective(Isotropic)Radiated Output Power	Part§2.1046, Part§24.232	EIRP ≤ 2W	Pass
Peak-Average Ratio	Part§2.1046, Part§24.232	FCC:Limit≤13dB	Pass
Bandwidth	Part§2.1049 RSS-133	OBW: Nolimit. EBW: Nolimit.	Pass
Band Edges Compliance	Part§2.1051, Part§24.238	≤ -13dBm/1%*EBW, In1MHz bands immediately outside and adjacent to The frequency block.	Pass
Spurious Emission at Antenna Terminals	Part§2.1051, Part§24.238	≤-13dBm/1MHz, from 9kHz to10th harmonics but outside authorized Operating frequency ranges.	Pass
Field Strength of Spurious Radiation	Part§2.1053, Part§24.238	≤ -13dBm/1MHz.	Pass
Frequency Stability	Part§2.1055, Part§24.235	FCC:within authorized frequency block.	Pass
NOTE 1:For the verdict, the "N/A" denotes "not applicable", the "N/T" denotes "not tested".			

Remark:

1. The measurement uncertainty is not included in the test result.

3.4 Equipments Used During The Test

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
1	L.I.S.N.	R&S	ENV216	HKE-002	2025/02/19	2026/02/18
2	L.I.S.N.	R&S	ENV216	HKE-059	2025/02/19	2026/02/18
3	EMI Test Receiver	R&S	ESR	HKE-005	2025/02/19	2026/02/18
4	Spectrum analyzer	Agilent	N9020A	HKE-117	2025/02/19	2026/02/18
5	Spectrum analyzer	R&S	FSV3044	HKE-126	2025/02/19	2026/02/18
6	Preamplifier	EMCI	EMC051845S	HKE-006	2025/02/19	2026/02/18
7	Preamplifier	Schwarzbeck	BBV 9743	HKE-016	2025/02/19	2026/02/18
8	Preamplifier	A.H. Systems	SAS-574	HKE-182	2025/02/19	2026/02/18
9	6d Attenuator	Pasternack	6db	HKE-184	2025/02/19	2026/02/18
10	EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	2025/02/19	2026/02/18
11	Broadband Antenna	Schwarzbeck	VULB9168	HKE-167	2024/02/21	2026/02/20
12	Loop Antenna	COM-POWER	AL-130R	HKE-014	2024/02/21	2026/02/20
13	Horn Antenna	Schwarzbeck	9120D	HKE-013	2024/02/21	2026/02/20
14	EMI Test Software	Tonscend	JS32-CE 2.5.0.6	HKE-081	/	/
15	EMI Test Software	Tonscend	JS32-RE 5.0.0	HKE-082	/	/
16	RF Automatic control unit	Tonscend	JS0806-1	HKE-096	2025/02/19	2026/02/18
17	High pass filter unit	Tonscend	JS0806-F	HKE-055	2025/02/19	2026/02/18
18	Wireless Communication Test Set	R&S	CMU200	HKE-026	2025/02/19	2026/02/18
19	Wireless Communication Test Set	R&S	CMW500	HKE-027	2025/02/19	2026/02/18
20	High-low temperature chamber	Guangke	HT-80L	HKE-118	2025/06/09	2026/06/08
21	Temperature and humidity meter	Boyang	HTC-1	HKE-075	2025/06/09	2026/06/08
22	RF Test Software	Tonscend	JS1120 Version 3.1.46	HKE-183	/	/
23	RSE Test Software	Tonscend	JS36-RSE 5.0.0	HKE-184	/	/

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.

4 Test Conditions and Results

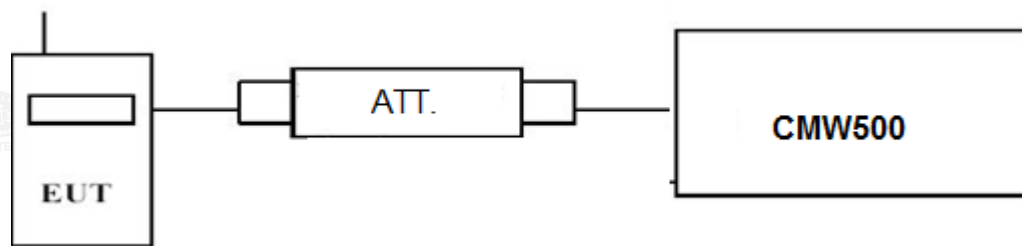
4.1 Output Power

4.1.1 Conducted Output Power

TEST APPLICABLE

During the process of testing, the EUT was controlled via R&S Digital Radio Communication tester (CMW500) to ensure max power transmission and proper modulation. This result contains output power and EIRP measurements for the EUT. In all cases, output power is within the specified limits.

TEST CONFIGURATION



TEST PROCEDURE

Conducted Power Measurement:

- Place the EUT on a bench and set it in transmitting mode.
- Connect a low loss RF cable from the antenna port to a CMW500 by an Att.
- EUT Communicate with CMW500 then selects a channel for testing.
- Add a correction factor to the display CMW500, and then test.

TEST RESULTS

Remark:

- We measured all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 2;

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)
Band2	1.4MHz	QPSK	18607	1RB#0	23.21
Band2	1.4MHz	QPSK	18607	1RB#2	23.34
Band2	1.4MHz	QPSK	18607	1RB#5	23.16
Band2	1.4MHz	QPSK	18607	3RB#0	23.15
Band2	1.4MHz	QPSK	18607	3RB#1	23.24
Band2	1.4MHz	QPSK	18607	3RB#3	23.10
Band2	1.4MHz	QPSK	18607	6RB#0	22.15
Band2	1.4MHz	16QAM	18607	1RB#0	22.37
Band2	1.4MHz	16QAM	18607	1RB#2	22.24
Band2	1.4MHz	16QAM	18607	1RB#5	22.24
Band2	1.4MHz	16QAM	18607	3RB#0	22.17
Band2	1.4MHz	16QAM	18607	3RB#1	22.19
Band2	1.4MHz	16QAM	18607	3RB#3	22.99
Band2	1.4MHz	16QAM	18607	6RB#0	22.00
Band2	1.4MHz	QPSK	18900	1RB#0	23.26
Band2	1.4MHz	QPSK	18900	1RB#2	23.18
Band2	1.4MHz	QPSK	18900	1RB#5	23.19
Band2	1.4MHz	QPSK	18900	3RB#0	23.07
Band2	1.4MHz	QPSK	18900	3RB#1	23.14
Band2	1.4MHz	QPSK	18900	3RB#3	23.05
Band2	1.4MHz	QPSK	18900	6RB#0	22.96
Band2	1.4MHz	16QAM	18900	1RB#0	22.14
Band2	1.4MHz	16QAM	18900	1RB#2	22.07
Band2	1.4MHz	16QAM	18900	1RB#5	22.12
Band2	1.4MHz	16QAM	18900	3RB#0	22.91
Band2	1.4MHz	16QAM	18900	3RB#1	22.96
Band2	1.4MHz	16QAM	18900	3RB#3	22.80
Band2	1.4MHz	16QAM	18900	6RB#0	22.93
Band2	1.4MHz	QPSK	19193	1RB#0	22.60
Band2	1.4MHz	QPSK	19193	1RB#2	23.13
Band2	1.4MHz	QPSK	19193	1RB#5	22.84
Band2	1.4MHz	QPSK	19193	3RB#0	22.89
Band2	1.4MHz	QPSK	19193	3RB#1	22.81
Band2	1.4MHz	QPSK	19193	3RB#3	22.64
Band2	1.4MHz	QPSK	19193	6RB#0	22.68
Band2	1.4MHz	16QAM	19193	1RB#0	22.57
Band2	1.4MHz	16QAM	19193	1RB#2	22.92
Band2	1.4MHz	16QAM	19193	1RB#5	22.78
Band2	1.4MHz	16QAM	19193	3RB#0	22.68
Band2	1.4MHz	16QAM	19193	3RB#1	22.70
Band2	1.4MHz	16QAM	19193	3RB#3	23.44
Band2	1.4MHz	16QAM	19193	6RB#0	22.75
Band2	3MHz	QPSK	18615	1RB#0	22.36
Band2	3MHz	QPSK	18615	1RB#8	22.37
Band2	3MHz	QPSK	18615	1RB#14	22.19
Band2	3MHz	QPSK	18615	8RB#0	21.42
Band2	3MHz	QPSK	18615	8RB#4	21.45
Band2	3MHz	QPSK	18615	8RB#7	21.46
Band2	3MHz	QPSK	18615	15RB#0	21.43

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.



Band2	3MHz	16QAM	18615	1RB#0	21.49
Band2	3MHz	16QAM	18615	1RB#8	21.39
Band2	3MHz	16QAM	18615	1RB#14	21.42
Band2	3MHz	16QAM	18615	8RB#0	22.49
Band2	3MHz	16QAM	18615	8RB#4	21.34
Band2	3MHz	16QAM	18615	8RB#7	21.50
Band2	3MHz	16QAM	18615	15RB#0	22.39
Band2	3MHz	QPSK	18900	1RB#0	22.55
Band2	3MHz	QPSK	18900	1RB#8	22.55
Band2	3MHz	QPSK	18900	1RB#14	22.21
Band2	3MHz	QPSK	18900	8RB#0	21.43
Band2	3MHz	QPSK	18900	8RB#4	21.53
Band2	3MHz	QPSK	18900	8RB#7	21.48
Band2	3MHz	QPSK	18900	15RB#0	21.44
Band2	3MHz	16QAM	18900	1RB#0	21.49
Band2	3MHz	16QAM	18900	1RB#8	21.47
Band2	3MHz	16QAM	18900	1RB#14	21.37
Band2	3MHz	16QAM	18900	8RB#0	22.64
Band2	3MHz	16QAM	18900	8RB#4	21.55
Band2	3MHz	16QAM	18900	8RB#7	21.67
Band2	3MHz	16QAM	18900	15RB#0	22.55
Band2	3MHz	QPSK	19185	1RB#0	22.97
Band2	3MHz	QPSK	19185	1RB#8	22.62
Band2	3MHz	QPSK	19185	1RB#14	22.14
Band2	3MHz	QPSK	19185	8RB#0	21.54
Band2	3MHz	QPSK	19185	8RB#4	21.55
Band2	3MHz	QPSK	19185	8RB#7	21.40
Band2	3MHz	QPSK	19185	15RB#0	21.47
Band2	3MHz	16QAM	19185	1RB#0	21.84
Band2	3MHz	16QAM	19185	1RB#8	21.54
Band2	3MHz	16QAM	19185	1RB#14	21.27
Band2	3MHz	16QAM	19185	8RB#0	21.77
Band2	3MHz	16QAM	19185	8RB#4	22.58
Band2	3MHz	16QAM	19185	8RB#7	21.60
Band2	3MHz	16QAM	19185	15RB#0	21.58
Band2	5MHz	QPSK	18625	1RB#0	22.65
Band2	5MHz	QPSK	18625	1RB#12	22.32
Band2	5MHz	QPSK	18625	1RB#24	22.61
Band2	5MHz	QPSK	18625	12RB#0	21.50
Band2	5MHz	QPSK	18625	12RB#6	21.52
Band2	5MHz	QPSK	18625	12RB#13	21.58
Band2	5MHz	QPSK	18625	25RB#0	21.58
Band2	5MHz	16QAM	18625	1RB#0	21.33
Band2	5MHz	16QAM	18625	1RB#12	21.17
Band2	5MHz	16QAM	18625	1RB#24	21.36
Band2	5MHz	16QAM	18625	12RB#0	21.57
Band2	5MHz	16QAM	18625	12RB#6	22.47
Band2	5MHz	16QAM	18625	12RB#13	21.64
Band2	5MHz	16QAM	18625	25RB#0	22.53
Band2	5MHz	QPSK	18900	1RB#0	22.72
Band2	5MHz	QPSK	18900	1RB#12	22.40
Band2	5MHz	QPSK	18900	1RB#24	22.44
Band2	5MHz	QPSK	18900	12RB#0	21.43
Band2	5MHz	QPSK	18900	12RB#6	21.49
Band2	5MHz	QPSK	18900	12RB#13	21.45
Band2	5MHz	QPSK	18900	25RB#0	21.46

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.

Band2	5MHz	16QAM	18900	1RB#0	21.21
Band2	5MHz	16QAM	18900	1RB#12	21.16
Band2	5MHz	16QAM	18900	1RB#24	21.09
Band2	5MHz	16QAM	18900	12RB#0	22.64
Band2	5MHz	16QAM	18900	12RB#6	21.57
Band2	5MHz	16QAM	18900	12RB#13	21.66
Band2	5MHz	16QAM	18900	25RB#0	21.56
Band2	5MHz	QPSK	19175	1RB#0	23.46
Band2	5MHz	QPSK	19175	1RB#12	22.67
Band2	5MHz	QPSK	19175	1RB#24	22.44
Band2	5MHz	QPSK	19175	12RB#0	22.85
Band2	5MHz	QPSK	19175	12RB#6	22.74
Band2	5MHz	QPSK	19175	12RB#13	22.57
Band2	5MHz	QPSK	19175	25RB#0	22.72
Band2	5MHz	16QAM	19175	1RB#0	22.89
Band2	5MHz	16QAM	19175	1RB#12	22.42
Band2	5MHz	16QAM	19175	1RB#24	23.11
Band2	5MHz	16QAM	19175	12RB#0	23.08
Band2	5MHz	16QAM	19175	12RB#6	22.82
Band2	5MHz	16QAM	19175	12RB#13	22.78
Band2	5MHz	16QAM	19175	25RB#0	22.82
Band2	10MHz	QPSK	18650	1RB#0	21.60
Band2	10MHz	QPSK	18650	1RB#24	22.63
Band2	10MHz	QPSK	18650	1RB#49	21.63
Band2	10MHz	QPSK	18650	25RB#0	21.56
Band2	10MHz	QPSK	18650	25RB#12	21.70
Band2	10MHz	QPSK	18650	25RB#25	21.63
Band2	10MHz	QPSK	18650	50RB#0	21.72
Band2	10MHz	16QAM	18650	1RB#0	22.73
Band2	10MHz	16QAM	18650	1RB#24	21.61
Band2	10MHz	16QAM	18650	1RB#49	21.86
Band2	10MHz	16QAM	18650	25RB#0	22.61
Band2	10MHz	16QAM	18650	25RB#12	21.69
Band2	10MHz	16QAM	18650	25RB#25	22.68
Band2	10MHz	QPSK	18900	1RB#0	21.71
Band2	10MHz	QPSK	18900	1RB#24	22.63
Band2	10MHz	QPSK	18900	1RB#49	21.36
Band2	10MHz	QPSK	18900	25RB#0	21.46
Band2	10MHz	QPSK	18900	25RB#12	21.58
Band2	10MHz	QPSK	18900	25RB#25	21.42
Band2	10MHz	QPSK	18900	50RB#0	21.70
Band2	10MHz	16QAM	18900	1RB#0	21.68
Band2	10MHz	16QAM	18900	1RB#24	21.51
Band2	10MHz	16QAM	18900	1RB#49	21.48
Band2	10MHz	16QAM	18900	25RB#0	21.66
Band2	10MHz	16QAM	18900	25RB#12	21.72
Band2	10MHz	16QAM	18900	25RB#25	21.59
Band2	10MHz	QPSK	19150	1RB#0	22.45
Band2	10MHz	QPSK	19150	1RB#24	23.16
Band2	10MHz	QPSK	19150	1RB#49	22.65
Band2	10MHz	QPSK	19150	25RB#0	22.93
Band2	10MHz	QPSK	19150	25RB#12	22.01
Band2	10MHz	QPSK	19150	25RB#25	22.82
Band2	10MHz	QPSK	19150	50RB#0	22.20

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.

Band2	10MHz	16QAM	19150	1RB#0	22.28
Band2	10MHz	16QAM	19150	1RB#24	22.00
Band2	10MHz	16QAM	19150	1RB#49	22.75
Band2	10MHz	16QAM	19150	25RB#0	23.09
Band2	10MHz	16QAM	19150	25RB#12	23.11
Band2	10MHz	16QAM	19150	25RB#25	22.97
Band2	15MHz	QPSK	18675	1RB#0	21.87
Band2	15MHz	QPSK	18675	1RB#38	22.89
Band2	15MHz	QPSK	18675	1RB#74	21.72
Band2	15MHz	QPSK	18675	38RB#0	21.67
Band2	15MHz	QPSK	18675	38RB#18	21.75
Band2	15MHz	QPSK	18675	38RB#37	22.66
Band2	15MHz	QPSK	18675	75RB#0	22.62
Band2	15MHz	16QAM	18675	1RB#0	21.94
Band2	15MHz	16QAM	18675	1RB#38	21.86
Band2	15MHz	16QAM	18675	1RB#74	22.70
Band2	15MHz	16QAM	18675	38RB#0	21.62
Band2	15MHz	16QAM	18675	38RB#18	22.00
Band2	15MHz	16QAM	18675	38RB#37	22.54
Band2	15MHz	QPSK	18900	1RB#0	22.68
Band2	15MHz	QPSK	18900	1RB#38	23.77
Band2	15MHz	QPSK	18900	1RB#74	22.32
Band2	15MHz	QPSK	18900	38RB#0	22.48
Band2	15MHz	QPSK	18900	38RB#18	22.53
Band2	15MHz	QPSK	18900	38RB#37	22.77
Band2	15MHz	QPSK	18900	75RB#0	22.69
Band2	15MHz	16QAM	18900	1RB#0	22.94
Band2	15MHz	16QAM	18900	1RB#38	22.84
Band2	15MHz	16QAM	18900	1RB#74	22.57
Band2	15MHz	16QAM	18900	38RB#0	22.48
Band2	15MHz	16QAM	18900	38RB#18	22.03
Band2	15MHz	16QAM	18900	38RB#37	22.75
Band2	15MHz	QPSK	19125	1RB#0	22.22
Band2	15MHz	QPSK	19125	1RB#38	23.24
Band2	15MHz	QPSK	19125	1RB#74	22.25
Band2	15MHz	QPSK	19125	38RB#0	22.18
Band2	15MHz	QPSK	19125	38RB#18	22.20
Band2	15MHz	QPSK	19125	38RB#37	22.26
Band2	15MHz	QPSK	19125	75RB#0	22.46
Band2	15MHz	16QAM	19125	1RB#0	22.33
Band2	15MHz	16QAM	19125	1RB#38	22.21
Band2	15MHz	16QAM	19125	1RB#74	22.27
Band2	15MHz	16QAM	19125	38RB#0	22.05
Band2	15MHz	16QAM	19125	38RB#18	22.14
Band2	15MHz	16QAM	19125	38RB#37	22.22
Band2	20MHz	QPSK	18700	1RB#0	21.12
Band2	20MHz	QPSK	18700	1RB#49	22.71
Band2	20MHz	QPSK	18700	1RB#99	21.24
Band2	20MHz	QPSK	18700	50RB#0	22.47
Band2	20MHz	QPSK	18700	50RB#25	21.43
Band2	20MHz	QPSK	18700	50RB#50	22.42
Band2	20MHz	QPSK	18700	100RB#0	22.59
Band2	20MHz	16QAM	18700	1RB#0	22.14
Band2	20MHz	16QAM	18700	1RB#49	21.43
Band2	20MHz	16QAM	18700	1RB#99	21.14

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.

Band2	20MHz	QPSK	18900	1RB#0	21.73
Band2	20MHz	QPSK	18900	1RB#49	22.96
Band2	20MHz	QPSK	18900	1RB#99	21.17
Band2	20MHz	QPSK	18900	50RB#0	22.80
Band2	20MHz	QPSK	18900	50RB#50	22.85
Band2	20MHz	QPSK	18900	100RB#0	22.81
Band2	20MHz	16QAM	18900	1RB#0	21.98
Band2	20MHz	16QAM	18900	1RB#49	21.80
Band2	20MHz	16QAM	18900	1RB#99	21.44
Band2	20MHz	QPSK	19100	1RB#0	21.61
Band2	20MHz	QPSK	19100	1RB#49	22.89
Band2	20MHz	QPSK	19100	1RB#99	21.15
Band2	20MHz	QPSK	19100	50RB#0	22.15
Band2	20MHz	QPSK	19100	50RB#50	22.25
Band2	20MHz	QPSK	19100	100RB#0	22.16
Band2	20MHz	16QAM	19100	1RB#0	21.57
Band2	20MHz	16QAM	19100	1RB#49	21.63
Band2	20MHz	16QAM	19100	1RB#99	21.14

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.

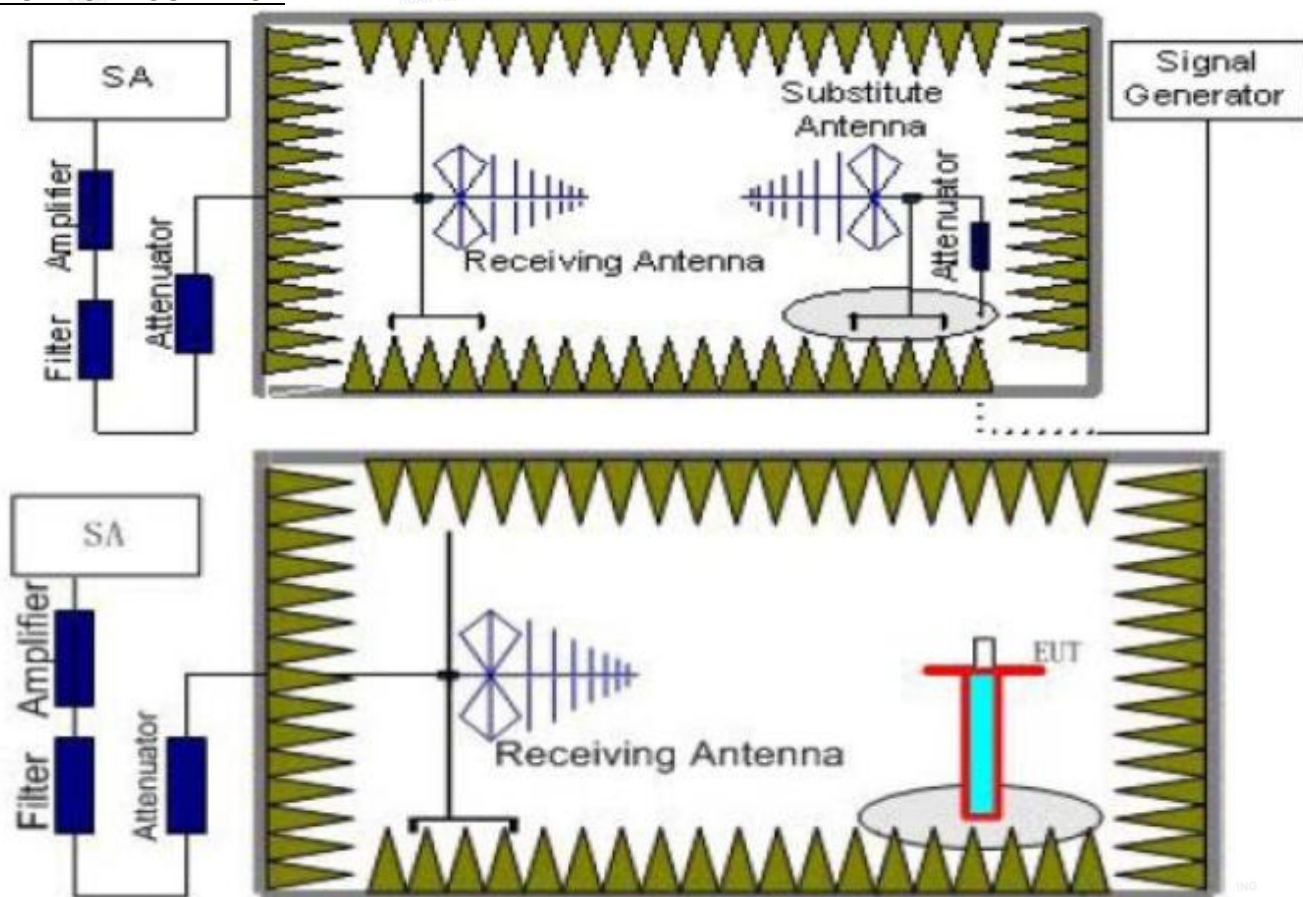
4.1.2. Radiated Output Power

LIMIT

This is the test for the maximum radiated power from the EUT.

Rule Part 24.232(b) specifies, "Mobile/portable stations are limited to 2 watts e.i.r.p.

TEST CONFIGURATION



TEST PROCEDURE

1. EUT was placed on a 1.50 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.50m. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.
2. A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
3. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=1MHz, VBW=3MHz, And the maximum value of the receiver should be recorded as (P_r).
4. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.

5. A power (P_{Mea}) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (P_r). The power of signal source (P_{Mea}) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
6. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (P_{cl}), the Substitution Antenna Gain (G_a) and the Amplifier Gain (P_{Ag}) should be recorded after test.
The measurement results are obtained as described below:
 $Power(EIRP) = P_{Mea} - P_{cl} + G_a$
We used SMF100A microwawe signal generator which signal level can up to 33dBm,so we not used power Amplifier for substitution test; The measurement results are amend as described below:
 $Power(EIRP) = P_{Mea} - P_{cl} + G_a$
7. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.
8. ERP can be calculated from EIRP by subtracting the gain of the dipole, $ERP = EIRP - 2.15dBi$.

TEST RESULTS

Radiated Measurement:

Remark:

1. We measured all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 2; recorded worst case for each Channel Bandwidth of LTE FDD Band 2.
2. $EIRP = P_{Mea}(dBm) - P_{cl}(dB) + P_{Ag}(dB) + G_a(dBi)$
3. We measured both Horizontal and Vertical direction, recorded worst case direction.

LTE FDD Band 2_Channel Bandwidth 1.4MHz_QPSK

Frequency (MHz)	P_{Mea} (dBm)	P_{cl} (dB)	G_a Antenna Gain(dB)	P_{Ag} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1850.7	-14.16	3.41	10.24	33.6	26.27	33.01	6.74	V
1880.0	-14.63	3.49	10.24	33.6	25.72	33.01	7.29	V
1909.3	-15.12	3.55	10.23	33.6	25.16	33.01	7.85	V

LTE FDD Band 2_Channel Bandwidth 3MHz_QPSK

Frequency (MHz)	P_{Mea} (dBm)	P_{cl} (dB)	G_a Antenna Gain(dB)	P_{Ag} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1851.5	-14.39	3.41	10.24	33.6	26.04	33.01	6.97	V
1880.0	-15.08	3.49	10.24	33.6	25.27	33.01	7.74	V
1908.5	-15.88	3.55	10.23	33.6	24.4	33.01	8.61	V

LTE FDD Band 2_Channel Bandwidth 5MHz_QPSK

Frequency (MHz)	P_{Mea} (dBm)	P_{cl} (dB)	G_a Antenna Gain(dB)	P_{Ag} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1852.5	-15.56	3.41	10.24	33.6	24.87	33.01	8.14	V
1880.0	-15.23	3.49	10.24	33.6	25.12	33.01	7.89	V
1907.5	-14.42	3.55	10.23	33.6	25.86	33.01	7.15	V

LTE FDD Band 2_Channel Bandwidth 10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1855.0	-15.46	3.41	10.24	33.6	24.97	33.01	8.04	V
1880.0	-14.3	3.49	10.24	33.6	26.05	33.01	6.96	V
1905.0	-14.47	3.55	10.23	33.6	25.81	33.01	7.2	V

LTE FDD Band 2_Channel Bandwidth 15MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1857.5	-14.3	3.41	10.24	33.6	26.13	33.01	6.88	V
1880.0	-15.13	3.49	10.24	33.6	25.22	33.01	7.79	V
1902.5	-14.02	3.55	10.23	33.6	26.26	33.01	6.75	V

LTE FDD Band 2_Channel Bandwidth 20MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1860.0	-11.63	3.41	10.24	33.6	28.8	33.01	4.21	V
1880.0	-12.68	3.49	10.24	33.6	27.67	33.01	5.34	V
1900.0	-15.62	3.55	10.23	33.6	24.66	33.01	8.35	V

LTE FDD Band 2_Channel Bandwidth 1.4MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1850.7	-14.12	3.41	10.24	33.6	26.31	33.01	6.7	V
1880.0	-14.12	3.49	10.24	33.6	26.23	33.01	6.78	V
1909.3	-13.37	3.55	10.23	33.6	26.91	33.01	6.1	V

LTE FDD Band 2_Channel Bandwidth 3MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1851.5	-15.17	3.41	10.24	33.6	25.26	33.01	7.75	V
1880.0	-15.01	3.49	10.24	33.6	25.34	33.01	7.67	V
1908.5	-16.06	3.55	10.23	33.6	24.22	33.01	8.79	V

LTE FDD Band 2_Channel Bandwidth 5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1852.5	-14.55	3.41	10.24	33.6	25.88	33.01	7.13	V
1880.0	-14.17	3.49	10.24	33.6	26.18	33.01	6.83	V
1907.5	-15.01	3.55	10.23	33.6	25.27	33.01	7.74	V

LTE FDD Band 2_Channel Bandwidth 10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1855.0	-13.76	3.41	10.24	33.6	26.67	33.01	6.34	V
1880.0	-13.91	3.49	10.24	33.6	26.44	33.01	6.57	V
1905.0	-15.19	3.55	10.23	33.6	25.09	33.01	7.92	V

LTE FDD Band 2_Channel Bandwidth 15MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1857.5	-13.06	3.41	10.24	33.6	27.37	33.01	5.64	V
1880.0	-14.91	3.49	10.24	33.6	25.44	33.01	7.57	V
1902.5	-13.78	3.55	10.23	33.6	26.5	33.01	6.51	V

LTE FDD Band 2_Channel Bandwidth 20MHz_16QAM

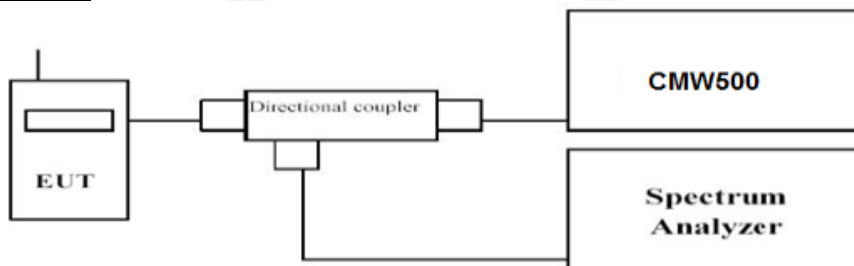
Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1860.0	-13.86	3.41	10.24	33.6	26.57	33.01	6.44	V
1880.0	-11.91	3.49	10.24	33.6	28.44	33.01	4.57	V
1900.0	-15.07	3.55	10.23	33.6	25.21	33.01	7.8	V

4.2 Peak-to-Average Ratio (PAR)

LIMIT

The Peak-to-Average Ratio (PAR) of the transmission may not exceed 13 dB.

TEST CONFIGURATION



TEST PROCEDURE

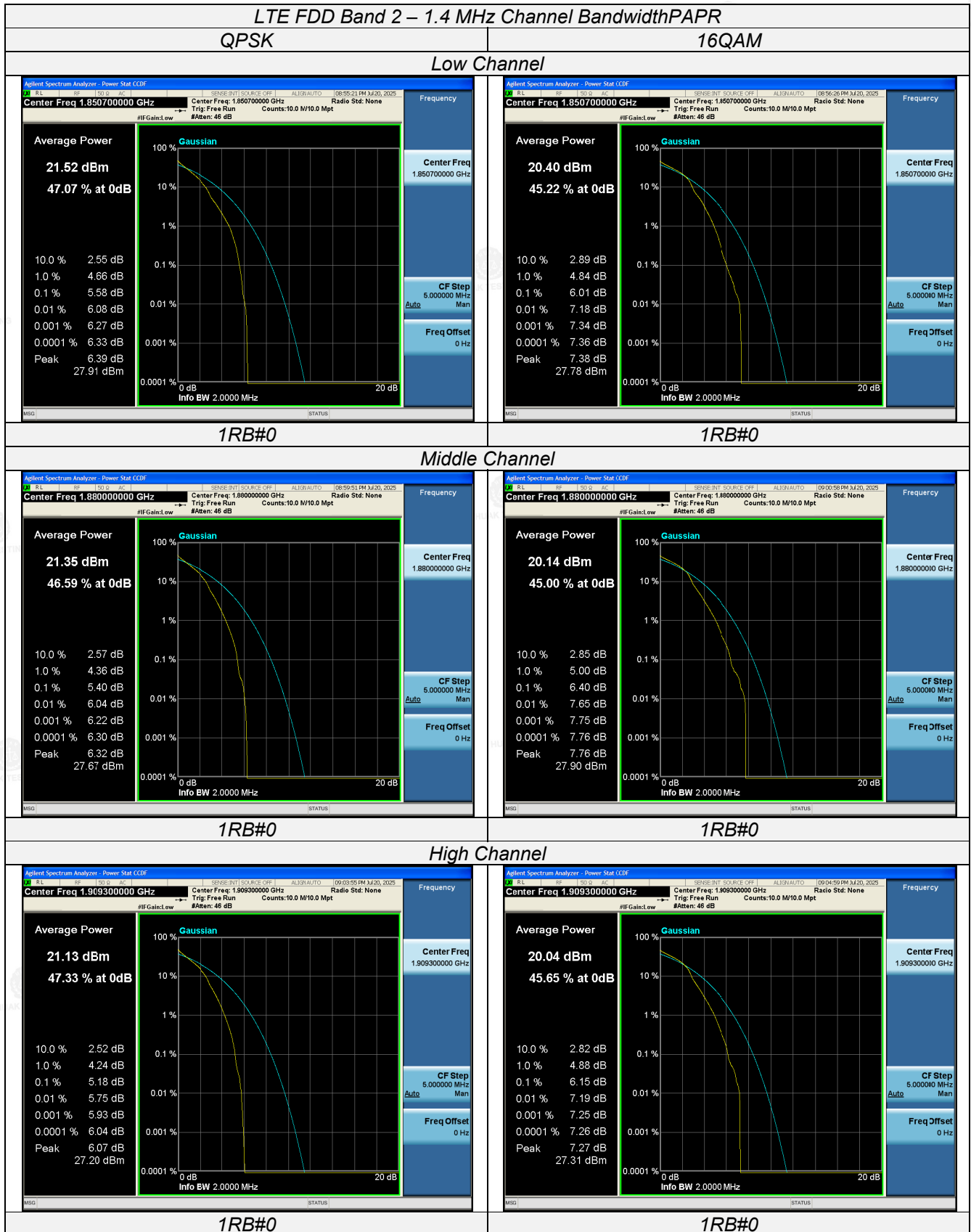
1. Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
2. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
3. Set the number of counts to a value that stabilizes the measured CCDF curve;
4. Set the measurement interval as follows:
 - 1). for continuous transmissions, set to 1 ms;
 - 2). for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
5. Record the maximum PAPR level associated with a probability of 0.1%.

TEST RESULTS

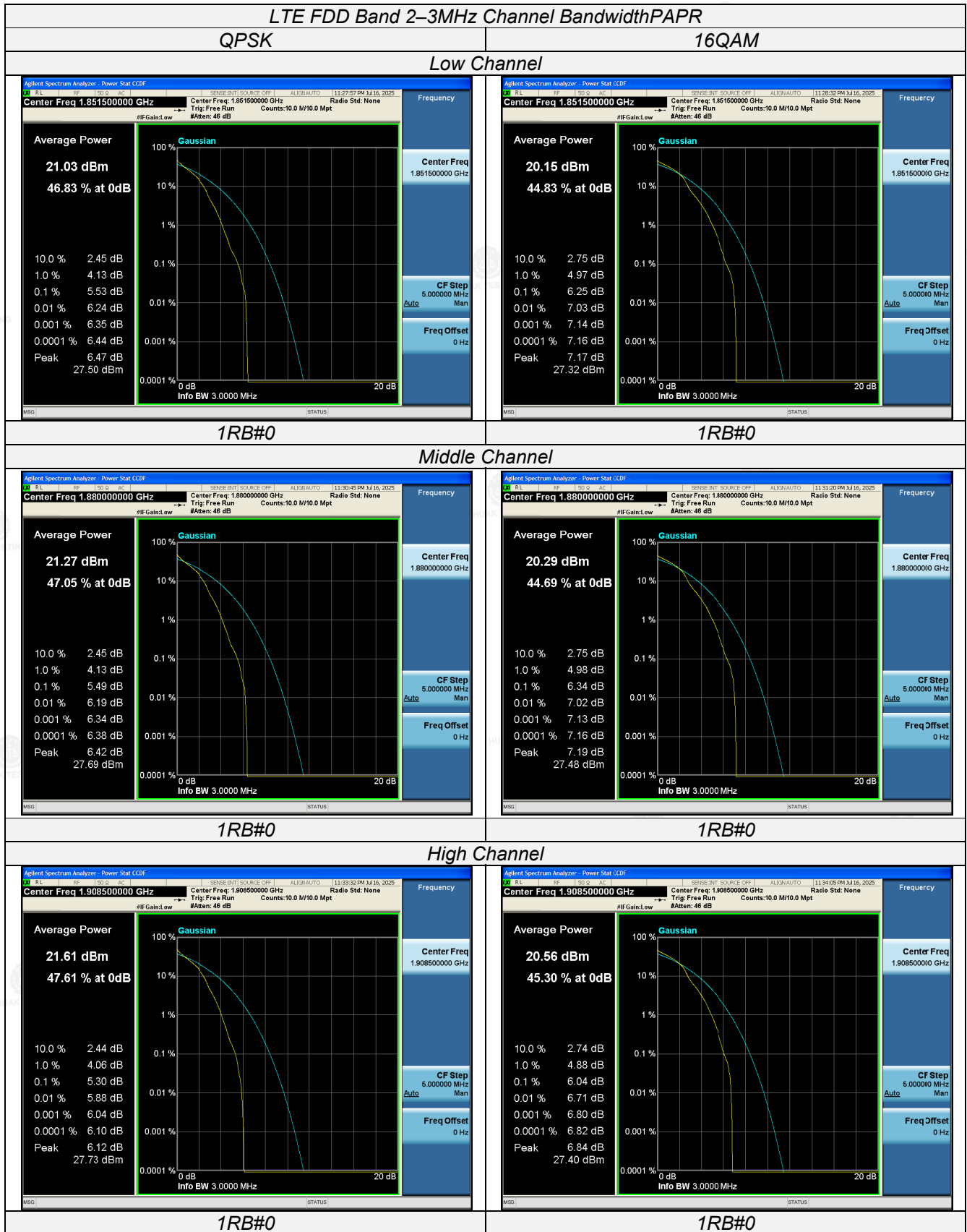
Remark:

1. We measured all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 2; recorded worst case for each Channel Bandwidth of LTE FDD Band 2.

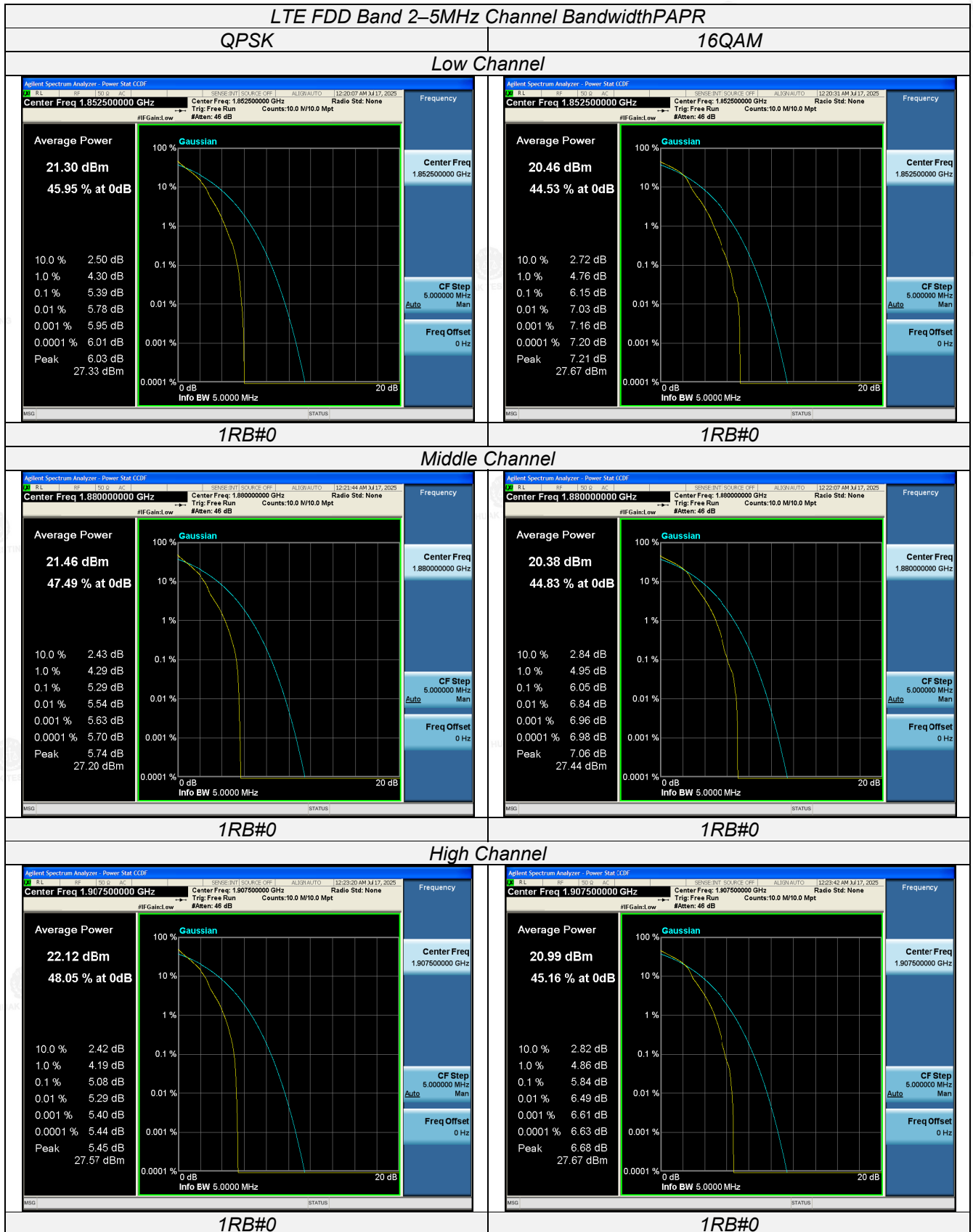
LTE FDD Band 2				
TX Channel Bandwidth	Frequency (MHz)	RB Size/Offset	PAPR(dB)	
			QPSK	16QAM
1.4 MHz	1850.7	1RB#0	5.58	6.01
	1880.0		5.40	6.40
	1909.3		5.18	6.15
3 MHz	1851.5	1RB#0	5.53	6.25
	1880.0		5.49	6.34
	1908.5		5.30	6.04
5 MHz	1852.5	1RB#0	5.39	6.15
	1880.0		5.29	6.05
	1907.5		5.08	5.84
10 MHz	1855.0	1RB#0	5.60	6.37
	1880.0		5.63	6.32
	1905.0		5.55	6.26
15 MHz	1857.5	1RB#0	5.63	6.41
	1880.0		5.63	6.34
	1902.5		5.52	6.23
20 MHz	1860.0	1RB#0	5.27	6.56
	1880.0		5.64	6.06
	1900.0		5.15	6.39



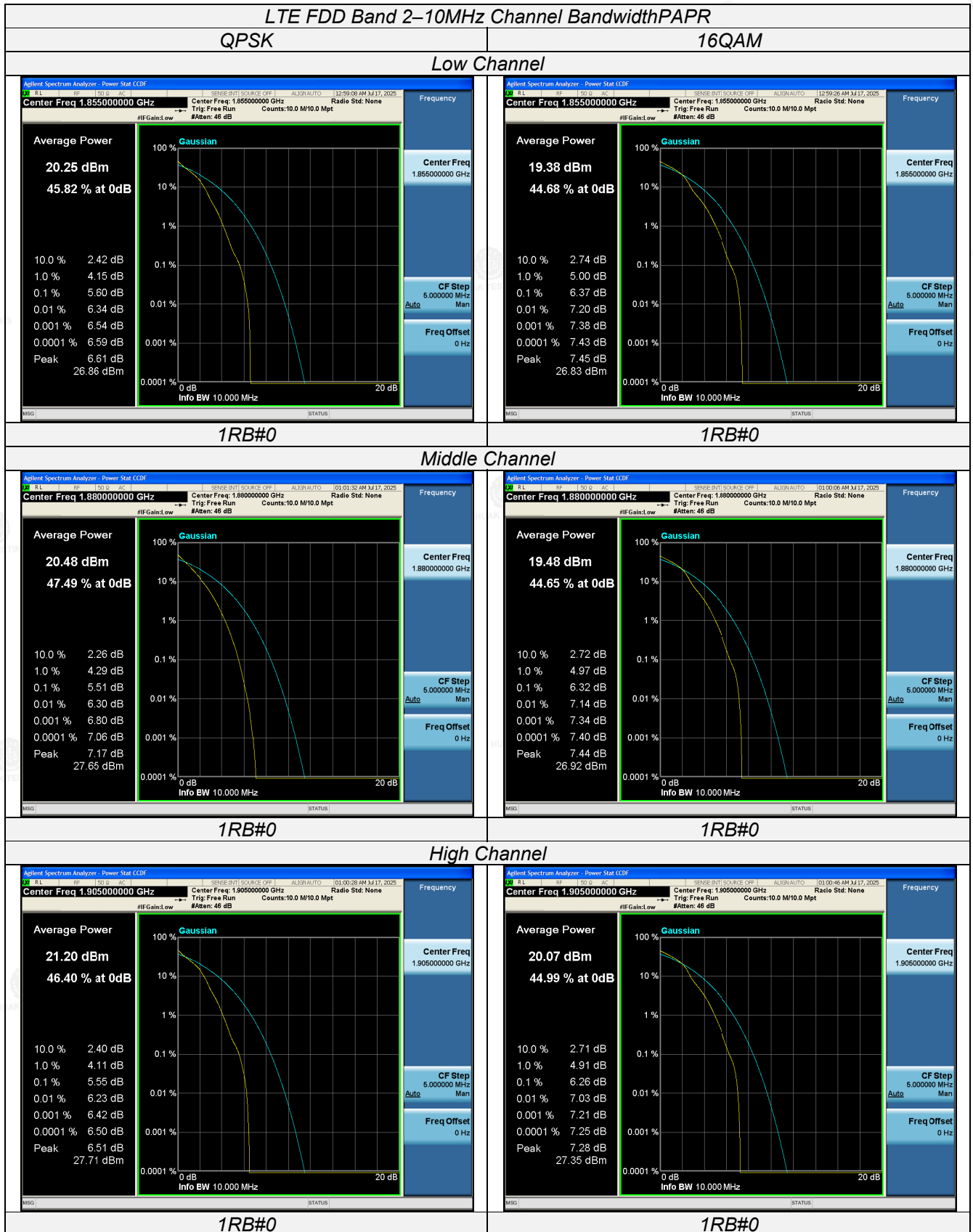
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.



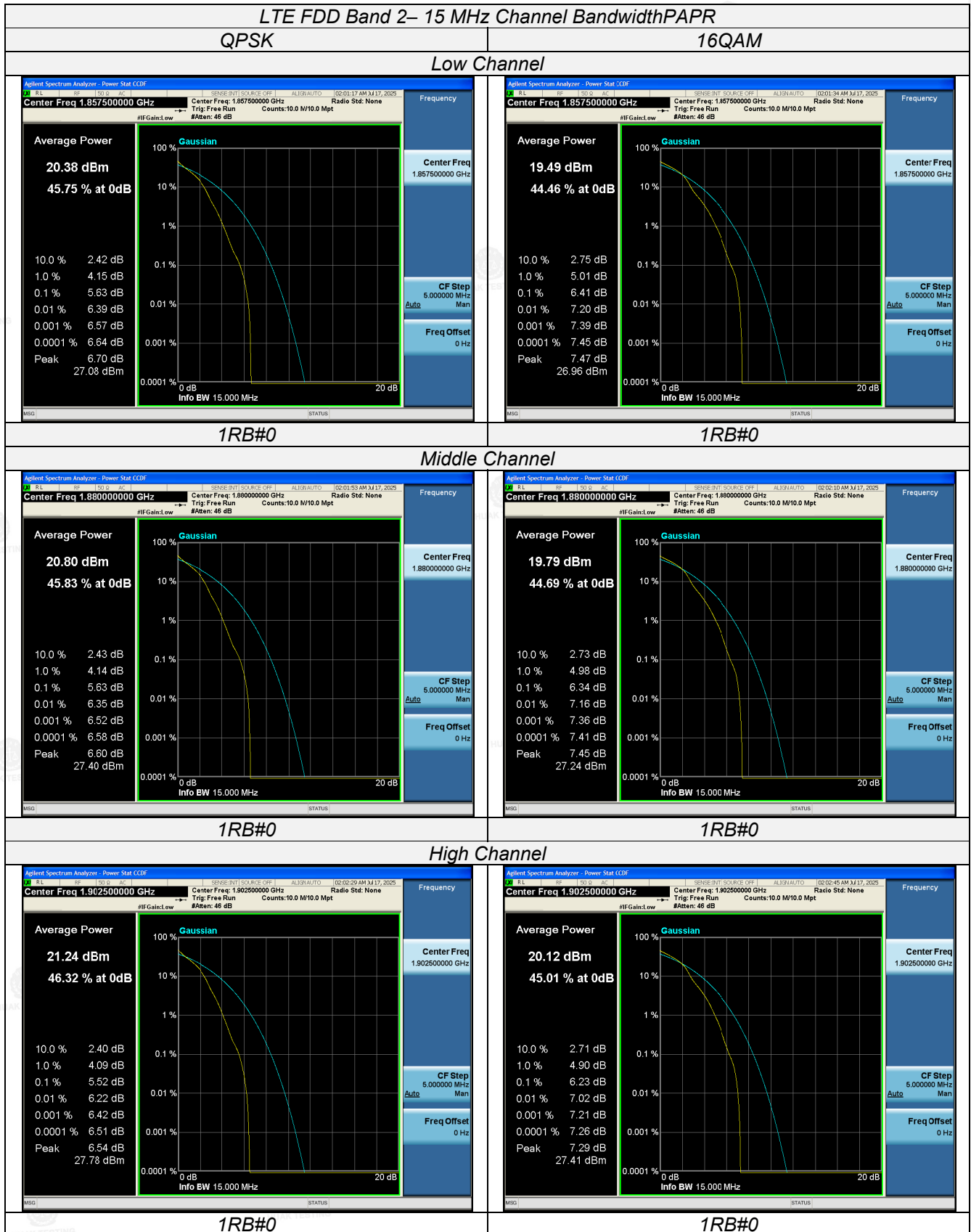
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.



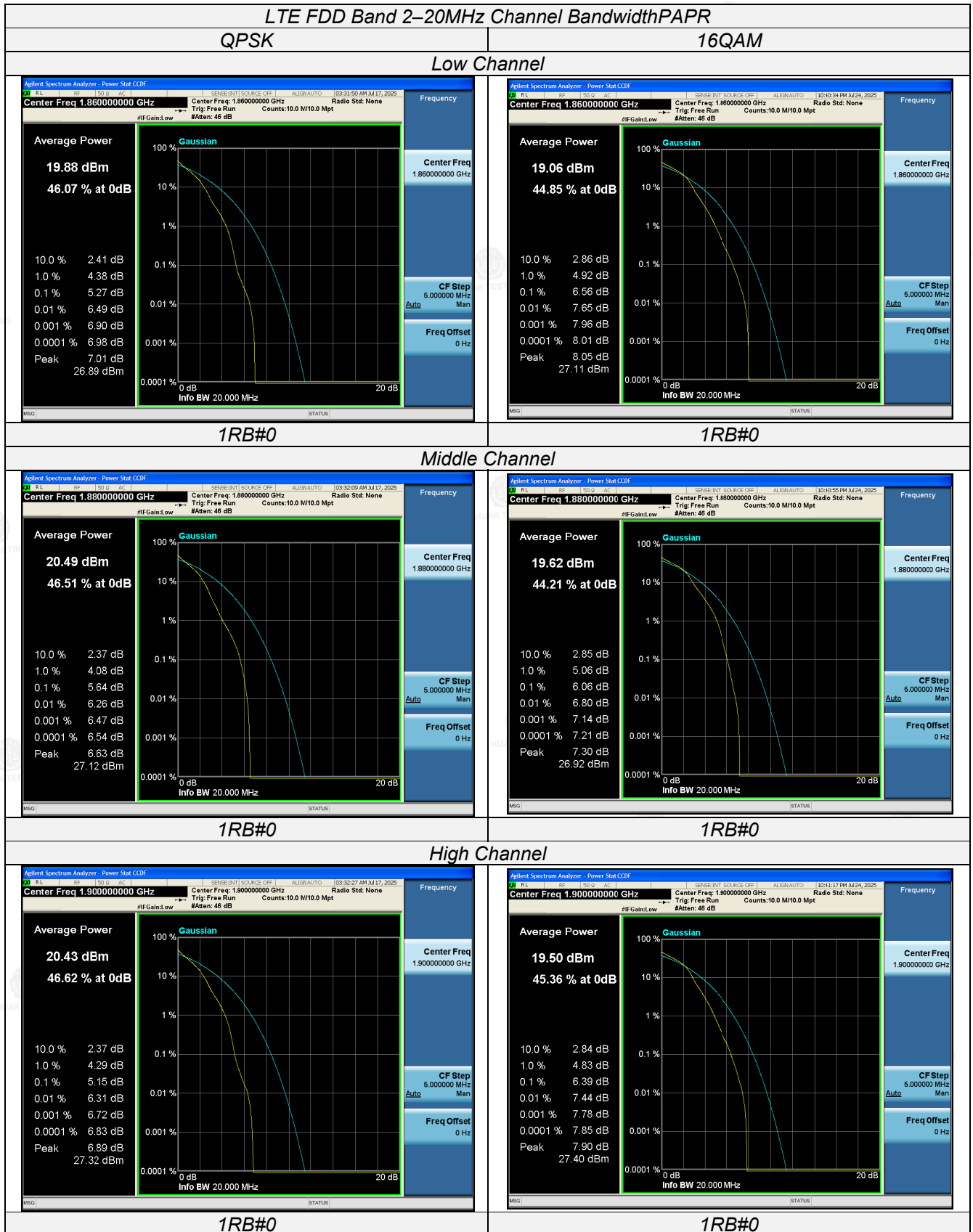
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.



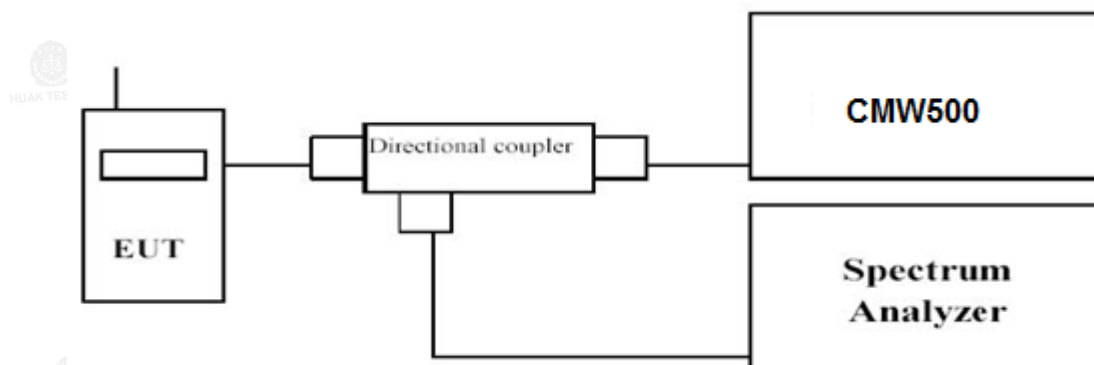
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.

4.3 Occupied Bandwidth and Emission Bandwidth

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at low, middle and high channel in each band. The -26dBc Emission bandwidth was also measured and recorded. Set RBW was set to about 1% of emission BW, VBW≥3 times RBW. -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

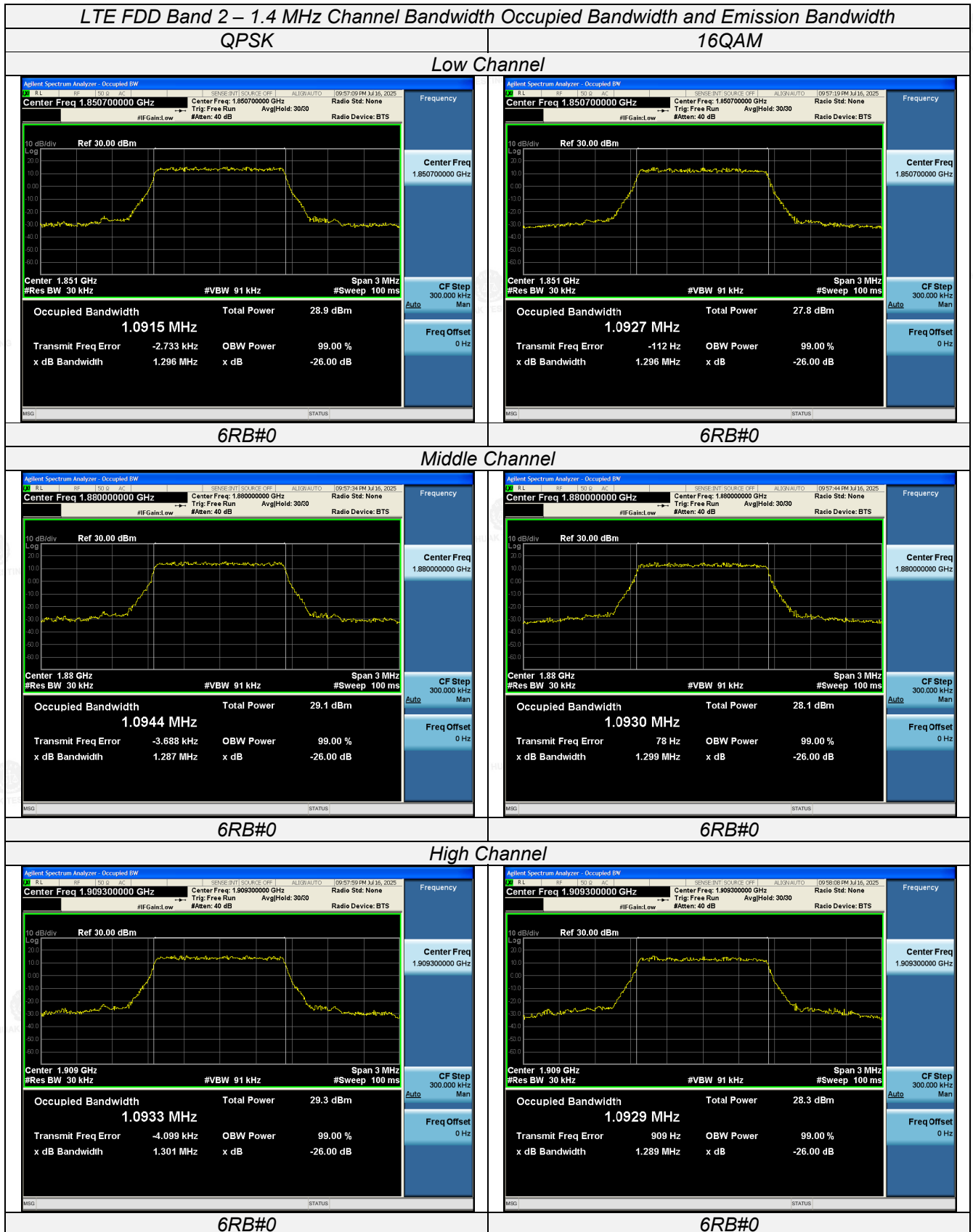
TEST RESULTS

Remark:

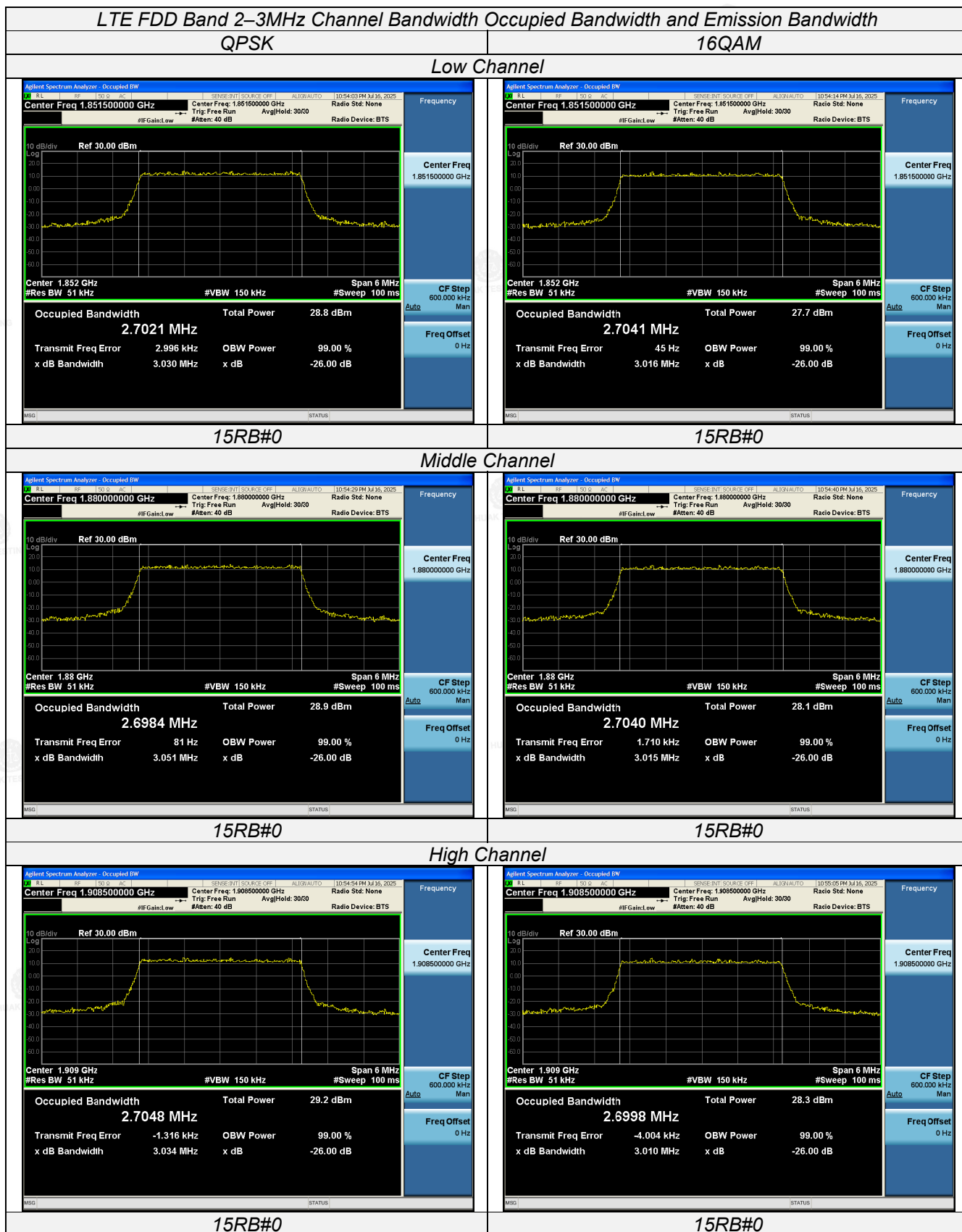
1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 2; recorded worst case for each Channel Bandwidth of LTE FDD Band 2.

LTE FDD Band 2						
TX Channel Bandwidth	RB Size/Offset	Frequency (MHz)	-26dBc Emission bandwidth (MHz)		99% Occupied bandwidth (MHz)	
			QPSK	16QAM	QPSK	16QAM
1.4 MHz	6RB#0	1850.7	1.296	1.296	1.0915	1.0927
		1880.0	1.287	1.299	1.0944	1.0930
		1909.3	1.301	1.289	1.0933	1.0929
3 MHz	15RB#0	1851.5	3.030	3.016	2.7021	2.7041
		1880.0	3.051	3.015	2.6984	2.7040
		1908.5	3.034	3.010	2.7048	2.6998
5 MHz	25RB#0	1852.5	5.131	5.086	4.5130	4.5063
		1880.0	5.129	5.072	4.5147	4.5010
		1907.5	5.129	5.057	4.5112	4.5014
10 MHz	50RB#0(QPSK) 25RB#25 (16QAM)	1855.0	9.965	5.675	8.9366	4.6533
		1880.0	9.978	5.694	8.9358	4.6525
		1905.0	9.996	5.632	8.9339	4.6630
15 MHz	75RB#0(QPSK) 38RB#37(16QAM)	1857.5	14.99	9.745	13.451	6.8638
		1880.0	14.99	10.03	13.461	6.9572
		1902.5	15.00	9.709	13.432	6.9063
20 MHz	100RB#0(QPSK) 50RB#50(16QAM)	1860.0	19.76	11.98	17.873	9.3206
		1880.0	19.58	12.16	17.839	9.3674
		1900.0	19.58	12.21	17.860	9.3534

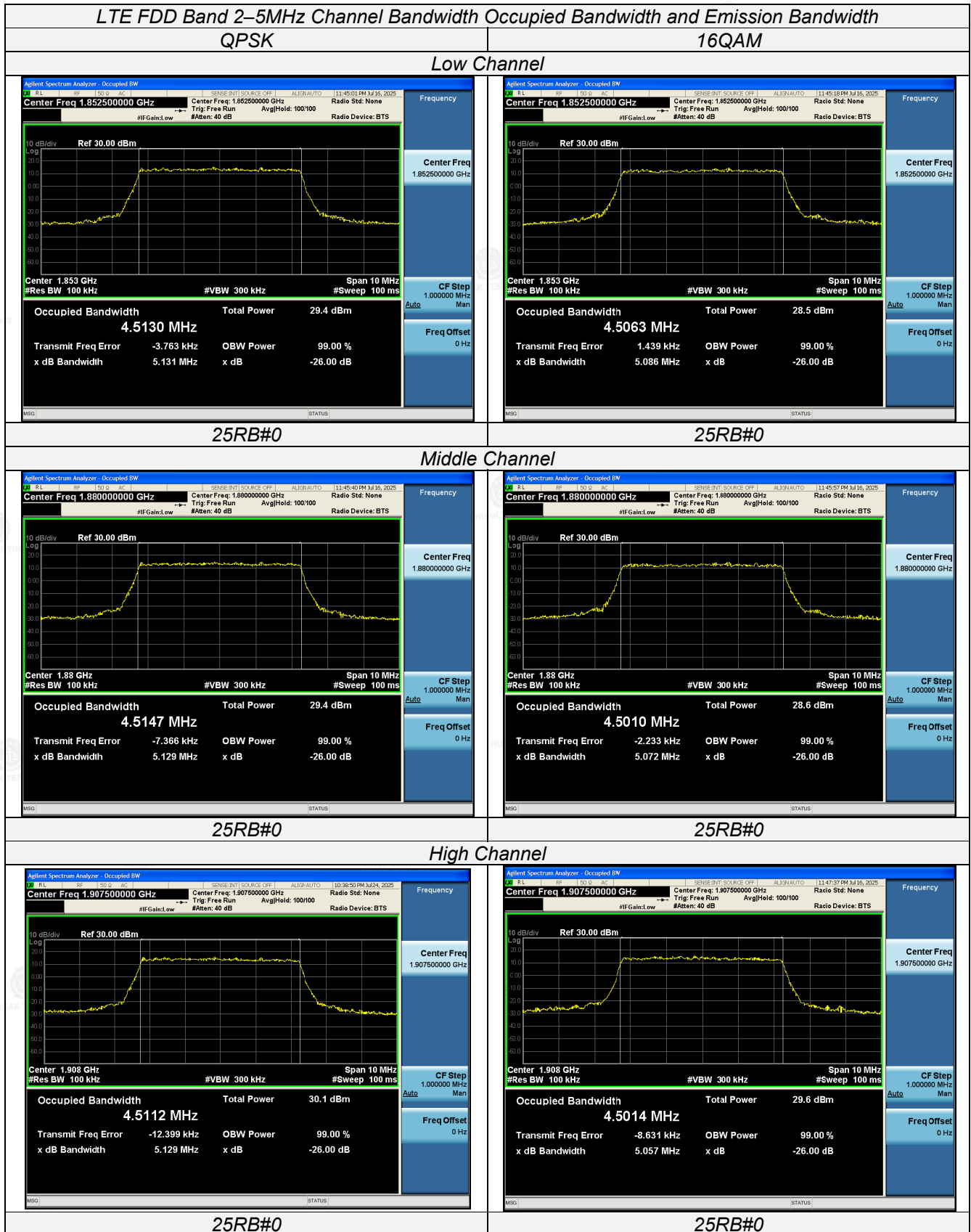
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.



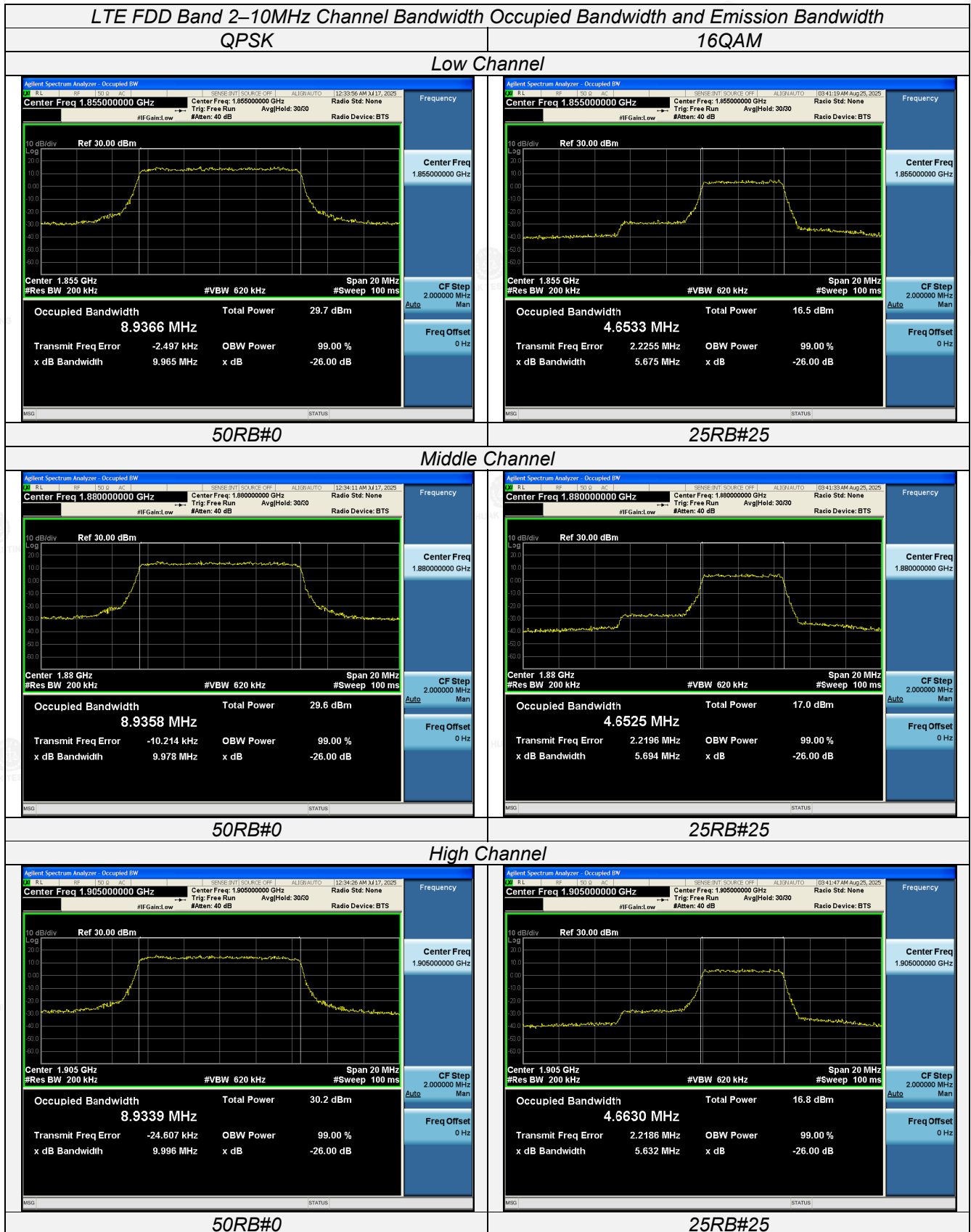
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.



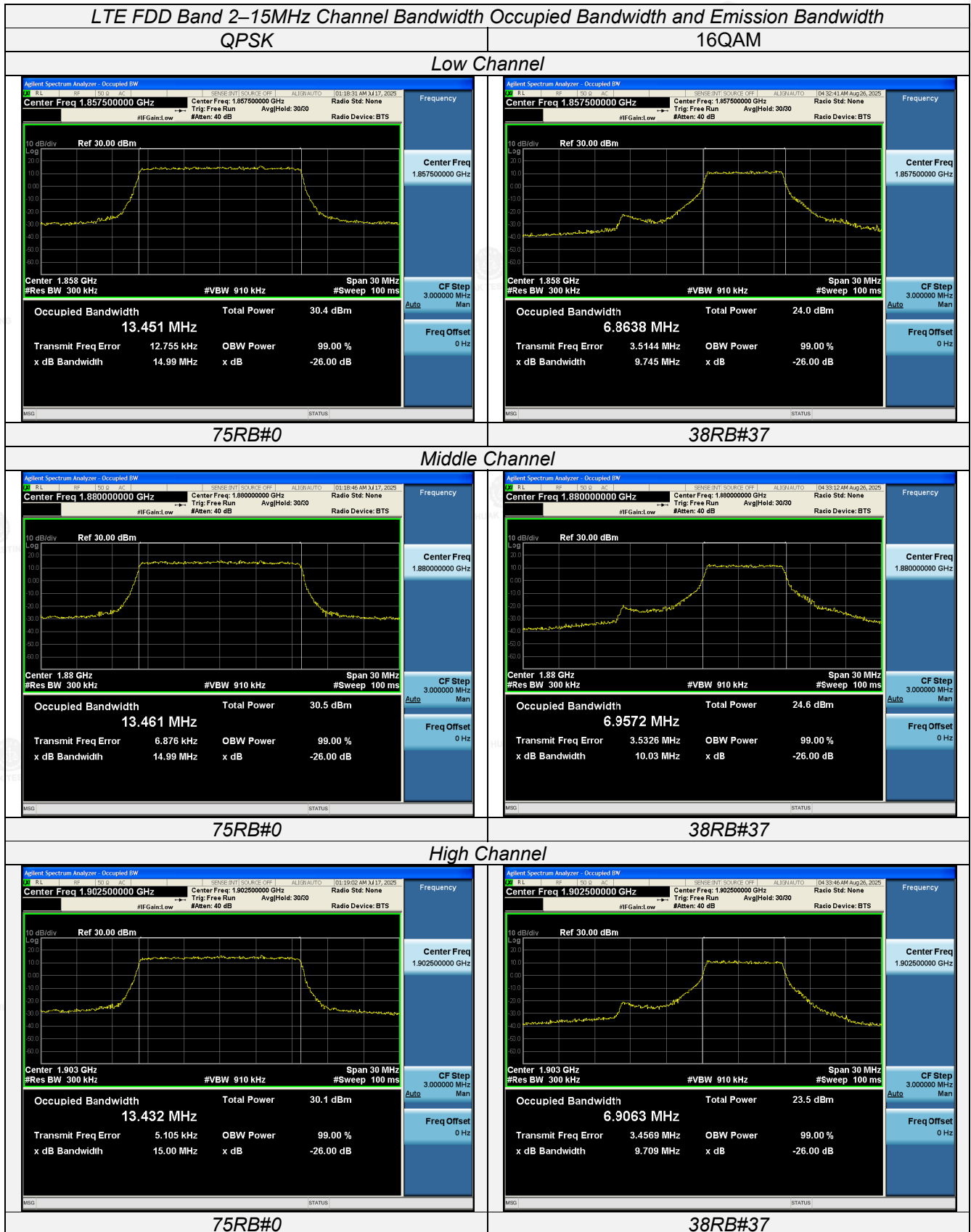
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.



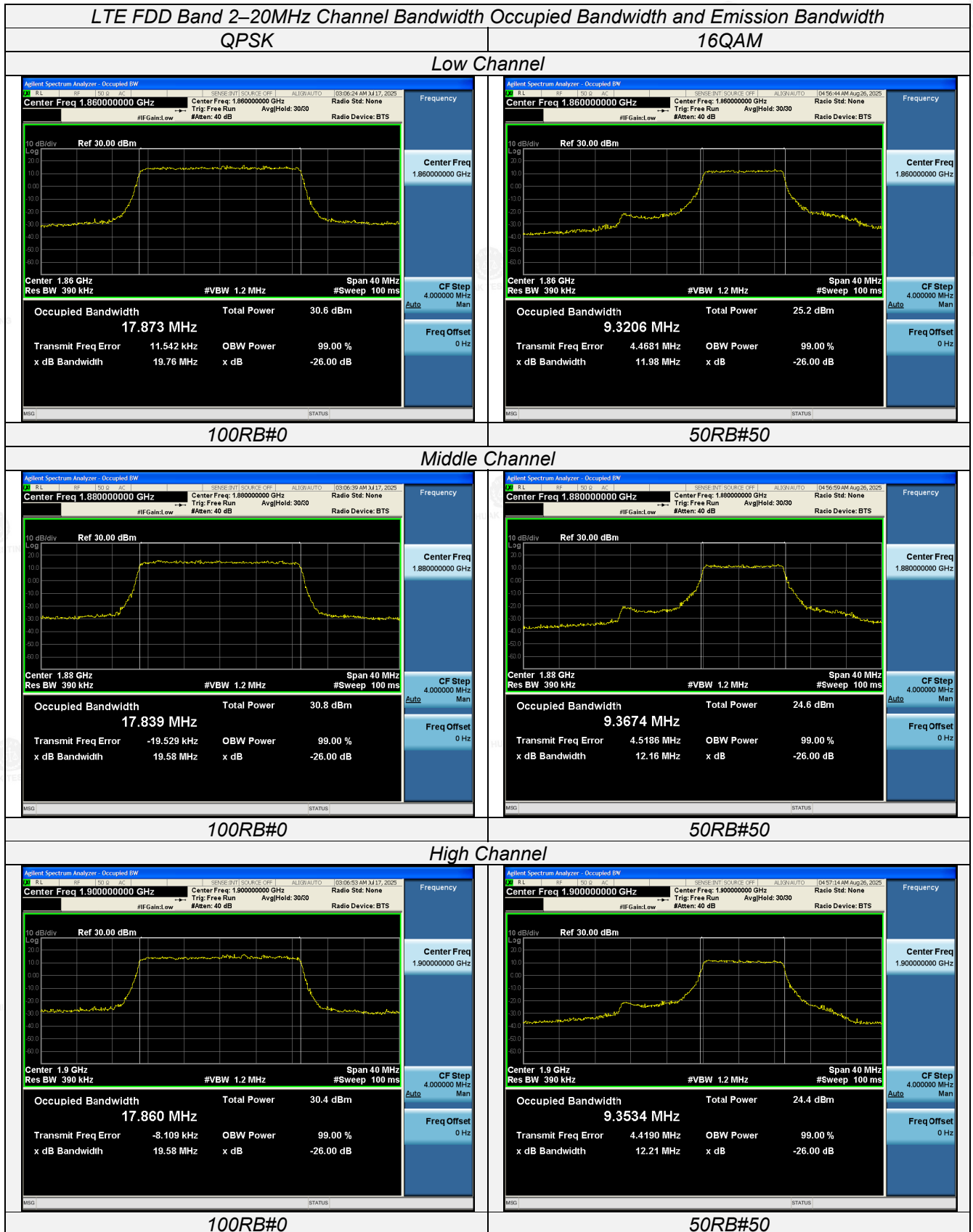
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.



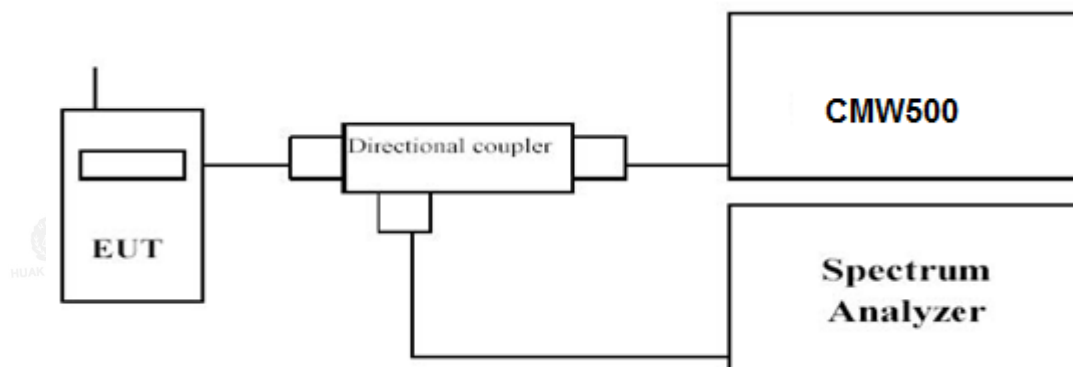
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.

4.4 Band Edge Compliance

LIMIT

Per FCC §24.238 the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10\log(P)$ dB.

TEST CONFIGURATION



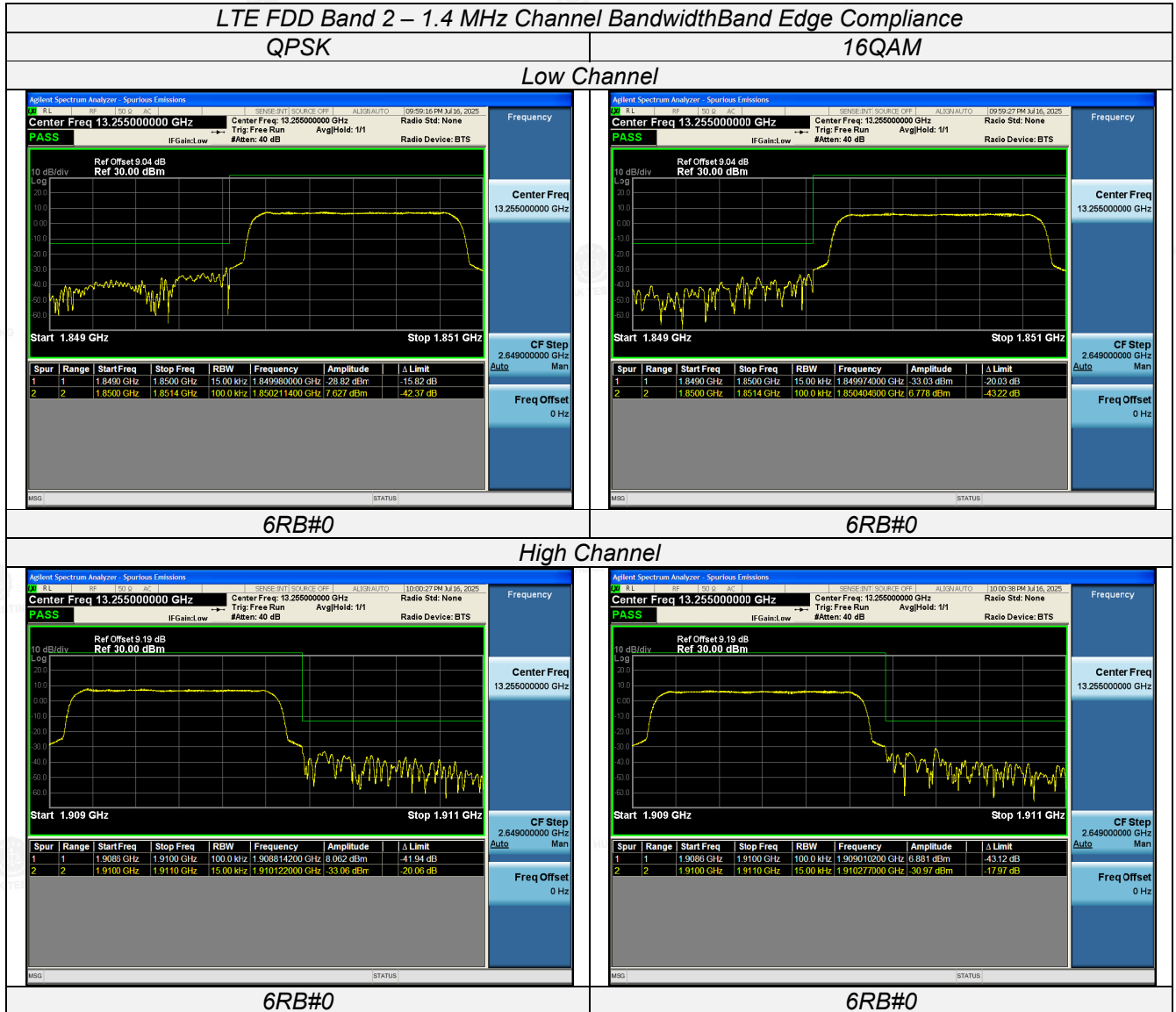
TEST PROCEDURE

1. The transmitter output port was connected to base station.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator, the path loss was compensated to the results for each measurement.
3. Set EUT at maximum power through base station.
4. Select lowest and highest channels for each band and different modulation.
5. Measure Band edge using RMS (Average) detector by spectrum.

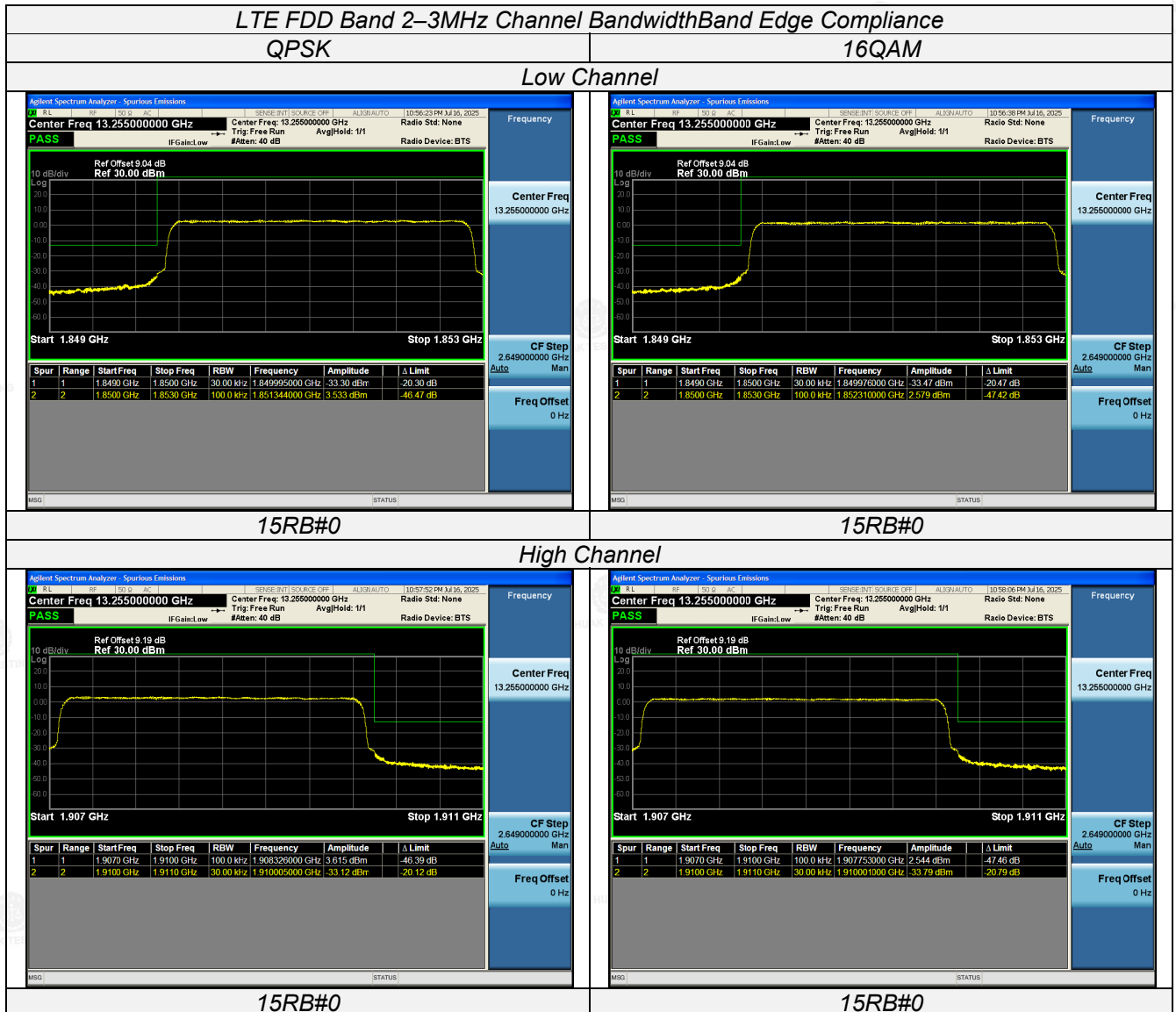
TEST RESULTS

Remark:

1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 2; recorded worst case for each Channel Bandwidth of LTE FDD Band 2.

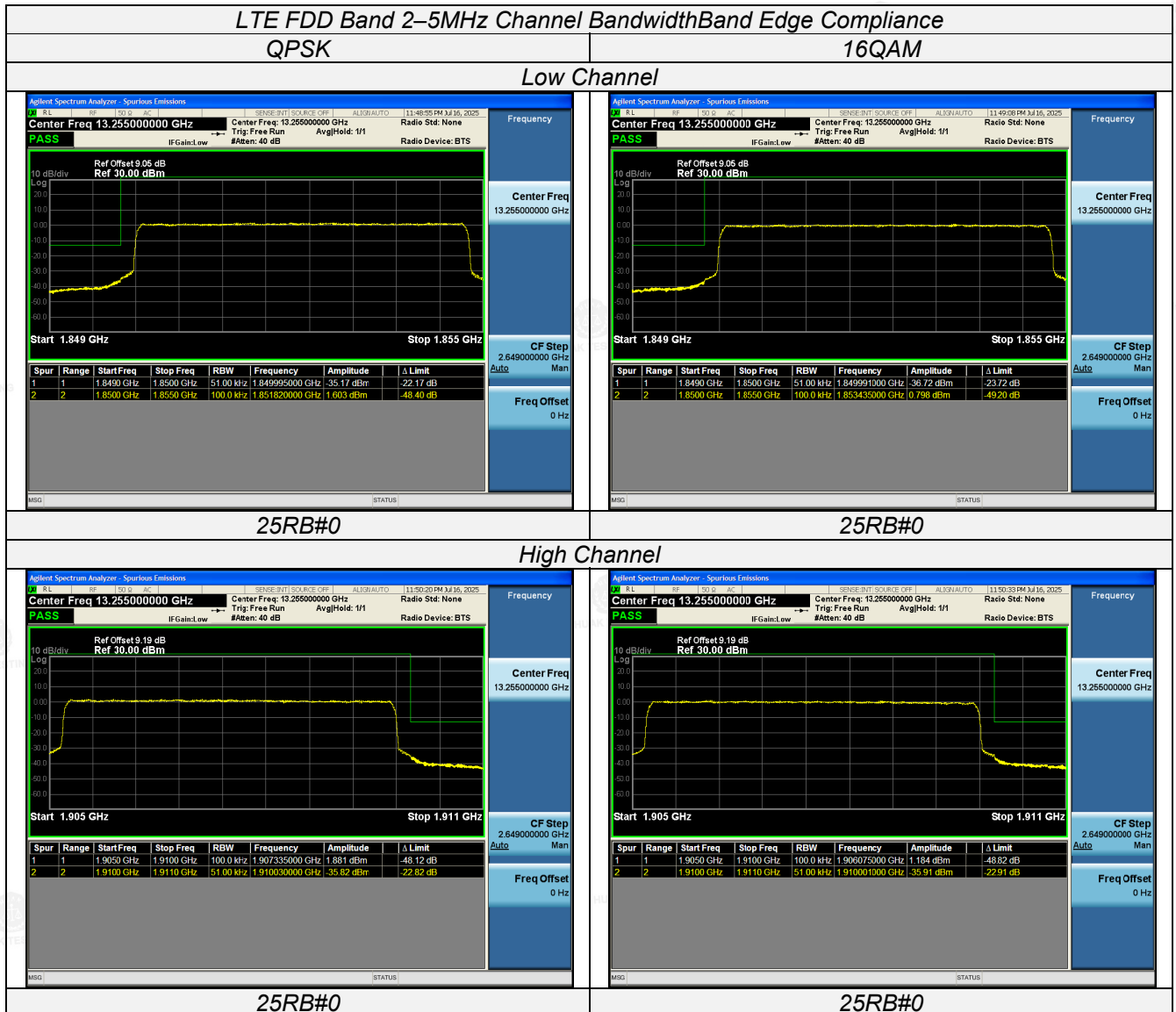


The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.



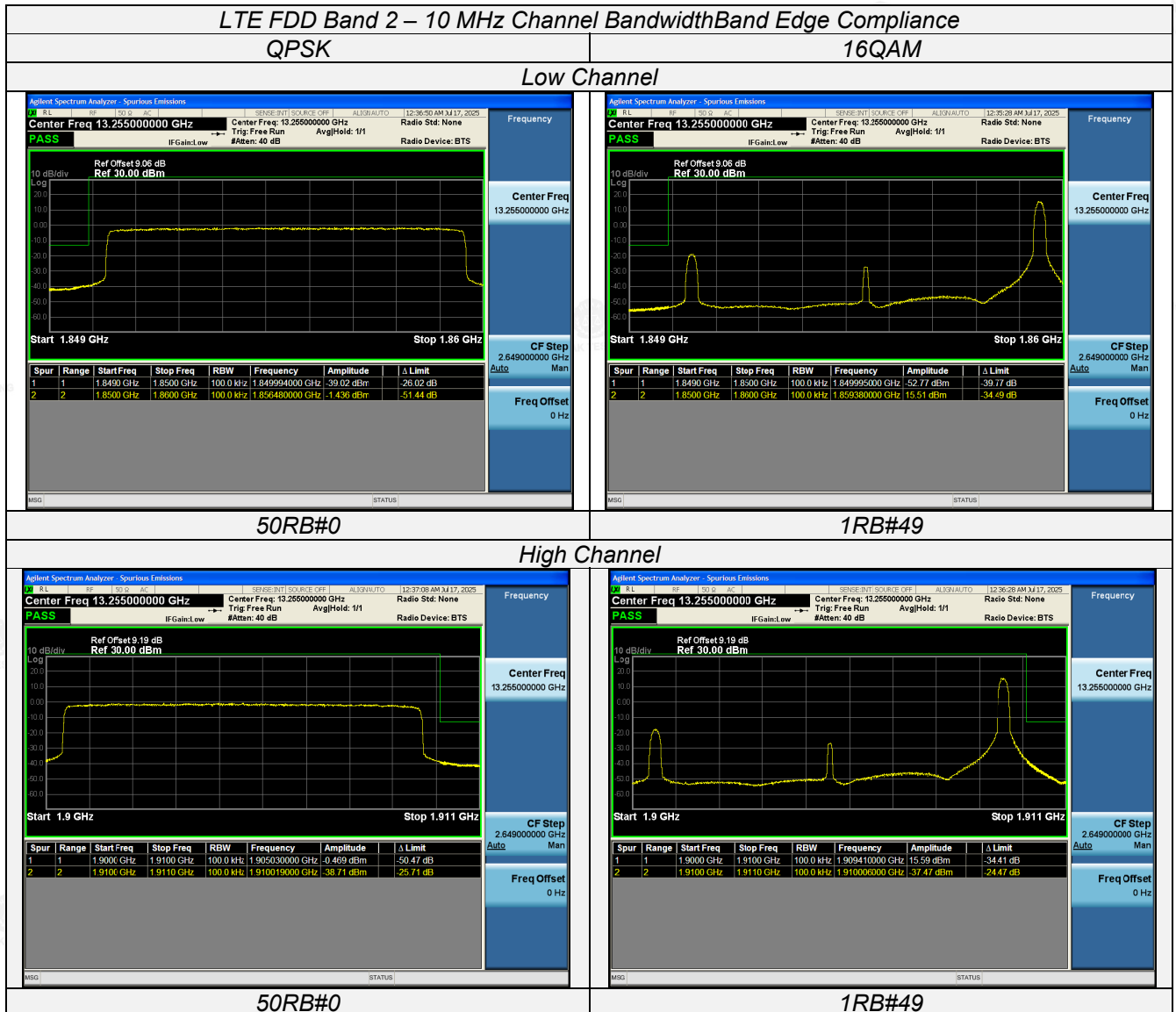
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.

Shenzhen HUAKE Testing Technology Co., Ltd. Tel.: +86-0755-2302 9901 E-mail: info@huak.com Web.: www.huak.com
 Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



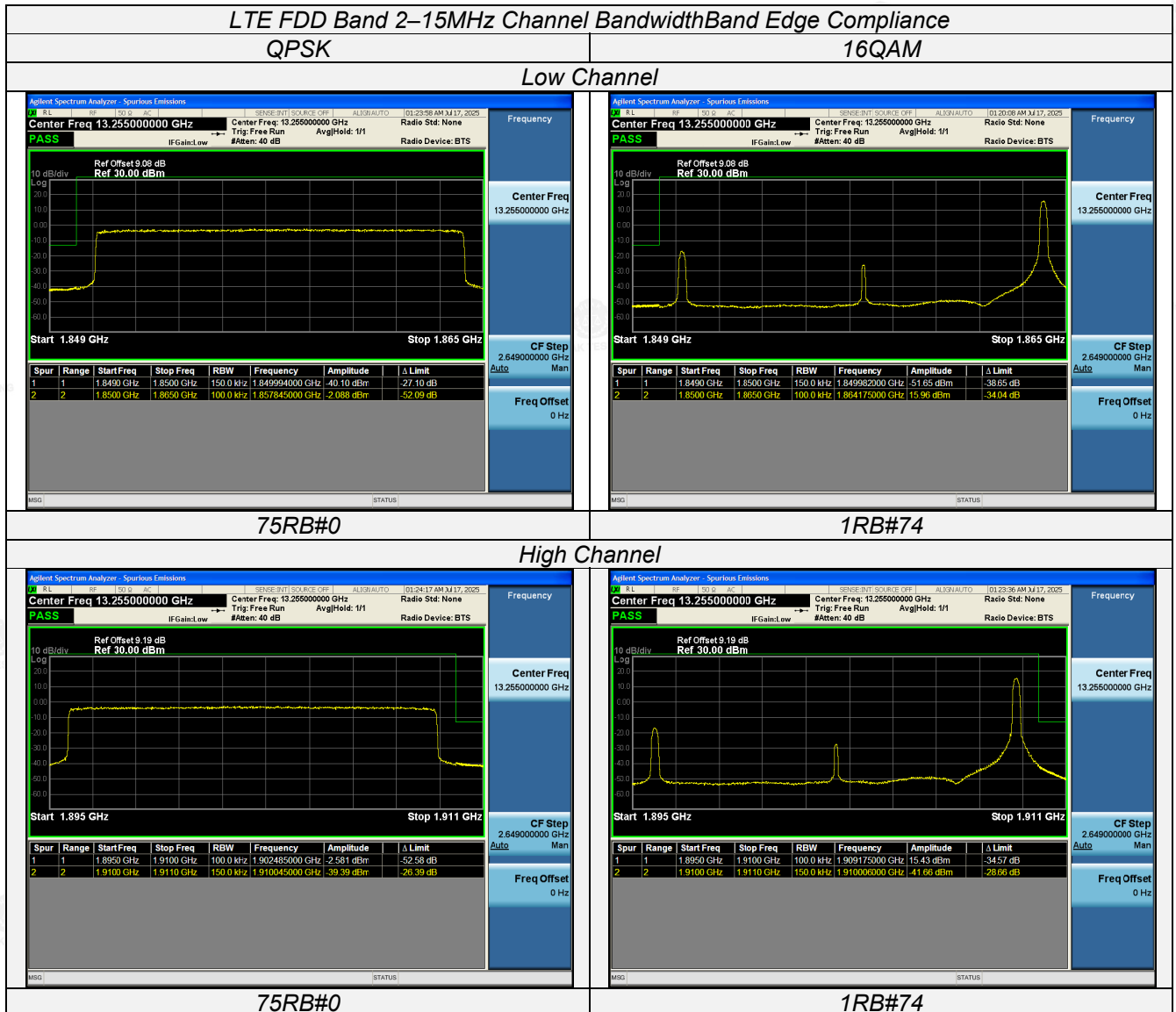
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.

Shenzhen HUAKE Testing Technology Co., Ltd. Tel.: +86-0755-2302 9901 E-mail: info@huak.com Web.: www.huak.com
 Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.

Shenzhen HUAKE Testing Technology Co., Ltd. Tel.: +86-0755-2302 9901 E-mail: info@huak.com Web.: www.huak.com
 Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.

Shenzhen HUAKE Testing Technology Co., Ltd. Tel.: +86-0755-2302 9901 E-mail: info@huak.com Web.: www.huak.com
 Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China