

FCC Test Report

Report Reference No.....: HK2601080047-2E

FCC ID.....: 2BBBN-RTB75T41

Compiled by
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Date of issue.....: Mar. 02, 2026

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

Address: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park,
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Applicant's Name: **Hangzhou Tanlink Technology Co.,Ltd.**

Address: Room 701, South Building, Building 3, No.16, Longtan Road,
Cangqian Street, Yuhang District, Hangzhou, Zhejiang, China

Test Specification

Standard: **FCC CFR Title 47 Part 2, Part 27**

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

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Product Name: 4G LTE Battery Pack

Trade Mark: Redtiger

Manufacturer.....: **Hangzhou Tanlink Technology Co.,Ltd.**

Model Name: RTB75T41

Series Model(s): RTB75N21, RTB32N11, RTB75T42, RTB75T43, RTB75T45

Modulation Type: QPSK, 16QAM

Rating: DC12V From DC Power or DC9.6V From Battery

Hardware Version.....: V1.0

Software Version: V1.0

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

Len Liao

Sliver Wan

Jason Zhou



TEST REPORT

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Address : Room 701, South Building, Building 3, No.16, Longtan Road, Cangqian Street, Yuhang District, Hangzhou, Zhejiang, China

Test Result	Pass
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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.

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**** Issued history ****

Revision	Description	Issued Date	Remark
Revision 1.0	Initial Test Report Release	Mar. 02, 2026	Jason Zhou



1 Summary

1.1 Test Standards

The tests were performed according to following standards:

[FCC Part 27](#): Miscellaneous Wireless Communications Services.

[ANSI/TIA-603-E-2016](#): Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

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

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

1.2 Test Description

Test Item	Section in CFR 47	Result
RF Output Power	Part 2.1046 Part 27.50(d)(4)	Pass
Peak-to-Average Ratio	Part 27.50(d)(4)	Pass
99% & -26 dB Occupied Bandwidth	Part 2.1049 Part 27.53(h)	Pass
Spurious Emissions at Antenna Terminal	Part 2.1051 Part 27.53(h)	Pass
Field Strength of Spurious Radiation	Part 2.1053 Part 27.53(h)	Pass
Out of band emission, Band Edge	Part 2.1051 Part 27.53(h)	Pass
Frequency stability	Part 2.1055 Part 27.54	Pass

Note:

1. Pass: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.
5. The measurement uncertainty is not included in the test result.



1.3 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

1.4 Statement of The 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%.

No.	Item	MU
1	All Emissions, Radiated(<1G)	$\pm 3.60\text{dB}$
2	All Emissions, Radiated(1-18G)	$\pm 3.86\text{dB}$
3	All Emissions, Radiated(18-40G)	$\pm 4.76\text{dB}$
4	Transmitter Power Conducted	$\pm 0.37\text{dB}$
5	Conducted Spurious Emission	$\pm 2.20\text{dB}$
6	Occupied Bandwidth	$\pm 3.68\%$
7	Temperature	$\pm 0.1^{\circ}\text{C}$
8	Humidity	$\pm 1.0\%$



2 General Information

2.1 Environmental Conditions

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

Normal Temperature:	25°C
Relative Humidity:	55 %
Air Pressure:	101 kPa

2.2 Description of Test Modes

The EUT has been tested under typical operating condition. The CMW500 used to control the EUT staying in continuous transmitting and receiving mode for testing. Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.

Note:

1. For the ERP/EIRP and radiated emission test, every axis (X, Y, Z) was verified, and show the worst result on this report.
2. Test method and refer to 3GPP TS136521.

2.3 Test frequency list

TX Channel Bandwidth	Frequency (MHz)	Channel
1.4 MHz	1710.7	19957
	1732.5	20175
	1754.3	20393
3 MHz	1711.5	19965
	1732.5	20175
	1753.5	20385
5 MHz	1712.5	19975
	1732.5	20175
	1752.5	20375
10 MHz	1715.0	20000
	1732.5	20175
	1750.0	20350
15 MHz	1717.5	20025
	1732.5	20175
	1747.5	20325
20 MHz	1720.0	20050
	1732.5	20175
	1745.0	20300



2.4 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	6dB 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 3.5.39	HKE-183	/	/
23	RSE Test Software	Tonscend	JS36-RSE 5.0.0	HKE-184	/	/

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Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	L.I.S.N.	R&S	ENV216	HKE-002	2026/02/11	1 Year
2	L.I.S.N.	R&S	ENV216	HKE-059	2026/02/04	1 Year
3	EMI Test Receiver	R&S	ESR-7	HKE-005	2026/02/06	1 Year
4	Spectrum analyzer	Agilent	N9020A	HKE-025	2026/02/06	1 Year
5	Spectrum analyzer	R&S	FSV3044	HKE-126	2026/02/06	1 Year
6	Preamplifier	EMCI	EMC051845SE	HKE-006	2026/02/04	1 Year
7	Preamplifier	Agilent	83051A	HKE-016	2026/02/04	1 Year
8	Preamplifier	A.H. Systems	SAS-574	HKE-182	2026/02/04	1 Year
9	6dB Attenuator	Pasternack	6db	HKE-007	2026/02/06	1 Year
10	EMI Test Receiver	R&S	ESR-7	HKE-010	2026/02/06	1 Year
11	Broadband Antenna	Schwarzbeck	VULB9168	HKE-167	2026/02/06	2 Year
12	Loop Antenna	COM-POWER	AL-130R	HKE-014	2026/02/06	2 Year
13	Horn Antenna	Schwarzbeck	9120D	HKE-013	2026/02/06	2 Year
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-060	2026/02/06	1 Year
17	High pass filter unit	Tonscend	JS0806-F	HKE-055	2026/02/06	1 Year
18	Wireless Communication Test Set	R&S	CMW500	HKE-027	2026/02/06	1 Year
19	High-low temperature chamber	Guangke	HT-80L	HKE-118	2025/06/09	1 Year
20	Temperature and humidity meter	Boyang	HTC-1	HKE-075	2025/06/09	1 Year
21	RF Test Software	Tonscend	JS1120-3 Version 3.5.39	HKE-083	/	/

2.5 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: 2BBBN-RTB75T41 filing to comply with of the FCC Part 27 Rules.

2.6 Modifications

No modifications were implemented to meet testing criteria.



3 Test Conditions and Results

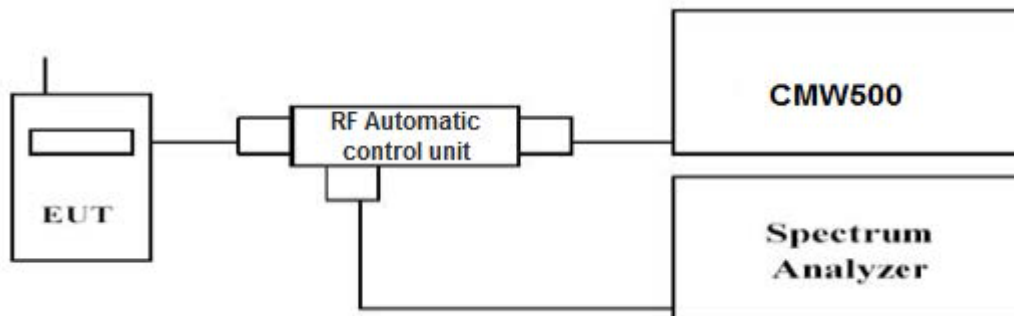
3.1 Output Power

LIMIT

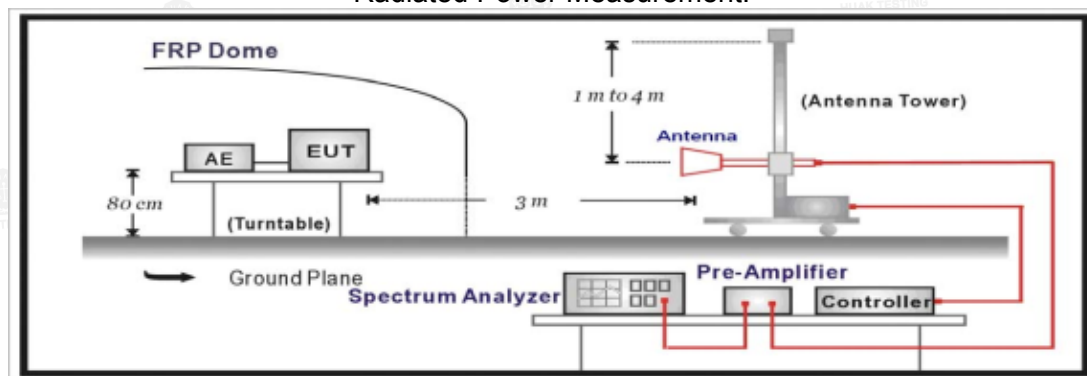
According to §27.50 (d) (4): Fixed, mobile, and portable (hand- held) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP.

TEST CONFIGURATION

Conducted Power Measurement



Radiated Power Measurement:



TEST PROCEDURE

The EUT was setup according to ANSI/TIA-603-E.

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 spectrum analyzer and CMW500 by a Directional Couple.
- EUT Communicate with CMW500, then select a channel for testing.
- Add a correction factor to the display of spectrum, and then test.

Radiated Power Measurement:

- The EUT shall be placed at the specified height on a support, and in the position closest to normal use as declared by provider.
- The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter.
- The output of the test antenna shall be connected to the measuring receiver.
- The transmitter shall be switched on and the measuring receiver shall be tuned to the frequency of the transmitter under test.



- e. The test antenna shall be raised and lowered through the specified range of height until a maximum signal level is detected by the measuring receiver.
- f. The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- g. The test antenna shall be raised and lowered again through the specified range of height until a maximum signal level is detected by the measuring receiver.
- h. The maximum signal level detected by the measuring receiver shall be noted.
- i. The transmitter shall be replaced by a substitution antenna.
- j. The substitution antenna shall be orientated for vertical polarization and the length of the substitution antenna shall be adjusted to correspond to the frequency of the transmitter.
- k. The substitution antenna shall be connected to a calibrated signal generator.
- l. If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- m. The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
- n. The input signal to the 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 attenuator setting of the measuring receiver.
- o. The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.
- p. The measure of the effective radiated power is the larger of the two levels recorded at the input to the substitution antenna, corrected for gain of the substitution antenna if necessary.
- q. Test site anechoic chamber refer to ANSI C63.4.

TEST RESULTS

Conducted Measurement:

LTE FDD Band 4				
TX Channel Bandwidth	Frequency (MHz)	RB Size/Offset	Average Power [dBm]	
			QPSK	16QAM
1.4 MHz	1710.7	1 RB low	23.00	22.12
		1 RB high	22.95	22.05
		50% RB mid	22.81	22.96
		100% RB	22.90	22.80
	1732.5	1 RB low	23.08	22.08
		1 RB high	23.35	23.01
		50% RB mid	23.00	22.13
		100% RB	23.03	22.81
	1754.3	1 RB low	22.62	22.42
		1 RB high	22.85	22.50
		50% RB mid	22.53	22.59
		100% RB	22.57	22.42
3 MHz	1711.5	1 RB low	22.94	22.67
		1 RB high	22.80	22.57
		50% RB mid	22.81	22.81
		100% RB	22.05	21.97
	1732.5	1 RB low	23.49	22.18
		1 RB high	23.13	23.00
		50% RB mid	23.47	22.26
		100% RB	22.21	22.28
	1753.5	1 RB low	22.81	22.82
		1 RB high	22.53	22.53
		50% RB mid	22.79	22.79
		100% RB	22.81	22.55

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5 MHz	1712.	1 RB low	22.97	22.01
		1 RB high	22.96	22.95
		50% RB mid	22.87	22.84
		100% RB	22.92	22.99
	1732.5	1 RB low	23.31	22.31
		1 RB high	23.13	22.71
		50% RB mid	23.35	22.25
		100% RB	22.19	22.12
	1752.5	1 RB low	22.64	22.61
		1 RB high	22.84	22.87
		50% RB mid	22.74	22.02
		100% RB	22.72	22.64
10 MHz	1715.0	1 RB low	22.88	22.09
		1 RB high	23.17	22.45
		50% RB mid	22.92	22.12
		100% RB	22.01	22.91
	1732.5	1 RB low	23.13	22.16
		1 RB high	23.54	23.10
		50% RB mid	23.33	22.25
		100% RB	22.12	22.29
	1750.0	1 RB low	22.85	22.66
		1 RB high	22.64	22.46
		50% RB mid	22.87	22.85
		100% RB	22.71	22.72
15 MHz	1717.5	1 RB low	22.93	22.14
		1 RB high	23.17	22.46
		50% RB mid	22.90	22.99
		100% RB	22.06	22.96
	1732.5	1 RB low	22.92	22.12
		1 RB high	22.95	22.27
		50% RB mid	22.76	22.79
		100% RB	22.99	22.98
	1747.5	1 RB low	23.00	22.90
		1 RB high	22.48	22.46
		50% RB mid	22.54	22.66
		100% RB	22.61	22.62
20 MHz	1720.0	1 RB low	23.24	22.23
		1 RB high	23.32	22.38
		50% RB mid	23.25	22.39
		100% RB	22.31	22.35
	1732.5	1 RB low	23.21	22.24
		1 RB high	23.58	22.57
		50% RB mid	22.97	23.94
		100% RB	22.14	22.20
	1745.0	1 RB low	23.31	22.75
		1 RB high	22.98	22.68
		50% RB mid	22.66	22.13
		100% RB	22.91	22.92

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Radiated Measurement

Remark:

1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 4; recorded worst case for each Channel Bandwidth of LTE FDD Band 4.
2. $EIRP = P_{Mea}(dBm) - G_a(dBi) + P_{cl}(dB) - P_{Ag}(dB)$

LTE FDD Band 4_Channel Bandwidth 1.4MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1710.7	67.89	3.06	9.68	34.80	26.47	30.00	3.53	V
1732.5	67.71	3.17	9.68	34.80	26.40	30.00	3.60	V
1754.3	67.59	3.22	9.75	34.80	26.26	30.00	3.74	V

LTE FDD Band 4_Channel Bandwidth 3MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1711.5	66.64	3.06	9.68	34.80	25.22	30.00	4.78	V
1732.5	66.69	3.17	9.68	34.80	25.38	30.00	4.62	V
1753.5	67.46	3.22	9.75	34.80	26.13	30.00	3.87	V

LTE FDD Band 4_Channel Bandwidth 5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1712.5	66.97	3.06	9.68	34.80	25.55	30.00	4.45	V
1732.5	66.79	3.17	9.68	34.80	25.48	30.00	4.52	V
1752.5	66.84	3.22	9.75	34.80	25.51	30.00	4.49	V

LTE FDD Band 4_Channel Bandwidth 10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1715.0	66.67	3.06	9.68	34.80	25.25	30.00	4.75	V
1732.5	66.96	3.17	9.68	34.80	25.65	30.00	4.35	V
1750.0	66.85	3.22	9.75	34.80	25.52	30.00	4.48	V

LTE FDD Band 4_Channel Bandwidth 15MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1717.5	67.02	3.06	9.68	34.80	25.60	30.00	4.40	V
1732.5	67.81	3.17	9.68	34.80	26.50	30.00	3.50	V
1747.5	67.14	3.22	9.75	34.80	25.81	30.00	4.19	V

LTE FDD Band 4_Channel Bandwidth 20MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1720.0	66.76	3.06	9.68	34.80	25.34	30.00	4.66	V
1732.5	67.95	3.17	9.68	34.80	26.64	30.00	3.36	V
1745.0	66.99	3.22	9.75	34.80	25.66	30.00	4.34	V

**LTE FDD Band 4_Channel Bandwidth 1.4MHz_16QAM**

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1710.7	66.65	3.06	9.68	34.80	25.23	30.00	4.77	V
1732.5	67.29	3.17	9.68	34.80	25.98	30.00	4.02	V
1754.3	67.01	3.22	9.75	34.80	25.68	30.00	4.32	V

LTE FDD Band 4_Channel Bandwidth 3MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1711.5	66.94	3.06	9.68	34.80	25.52	30.00	4.48	V
1732.5	66.75	3.17	9.68	34.80	25.44	30.00	4.56	V
1753.5	67.60	3.22	9.75	34.80	26.27	30.00	3.73	V

LTE FDD Band 4_Channel Bandwidth 5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1712.5	67.32	3.06	9.68	34.80	25.90	30.00	4.10	V
1732.5	66.82	3.17	9.68	34.80	25.51	30.00	4.49	V
1752.5	67.38	3.22	9.75	34.80	26.05	30.00	3.95	V

LTE FDD Band 4_Channel Bandwidth 10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1715.0	67.84	3.06	9.68	34.80	26.42	30.00	3.58	V
1732.5	67.06	3.17	9.68	34.80	25.75	30.00	4.25	V
1750.0	66.75	3.22	9.75	34.80	25.42	30.00	4.58	V

LTE FDD Band 4_Channel Bandwidth 15MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1717.5	67.49	3.06	9.68	34.80	26.07	30.00	3.93	V
1732.5	67.31	3.17	9.68	34.80	26.00	30.00	4.00	V
1747.5	67.25	3.22	9.75	34.80	25.92	30.00	4.08	V

LTE FDD Band 4_Channel Bandwidth 20MHz_16QAM

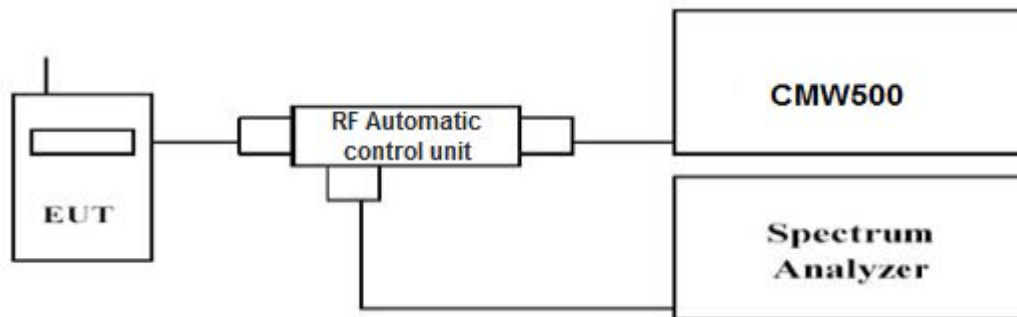
Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1720.0	67.89	3.06	9.68	34.80	26.47	30.00	3.53	V
1732.5	66.69	3.17	9.68	34.80	25.38	30.00	4.62	V
1745.0	66.81	3.22	9.75	34.80	25.48	30.00	4.52	V

3.2 Peak-to-Average Ratio (PAR)

LIMIT

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

TEST CONFIGURATION



TEST PROCEDURE

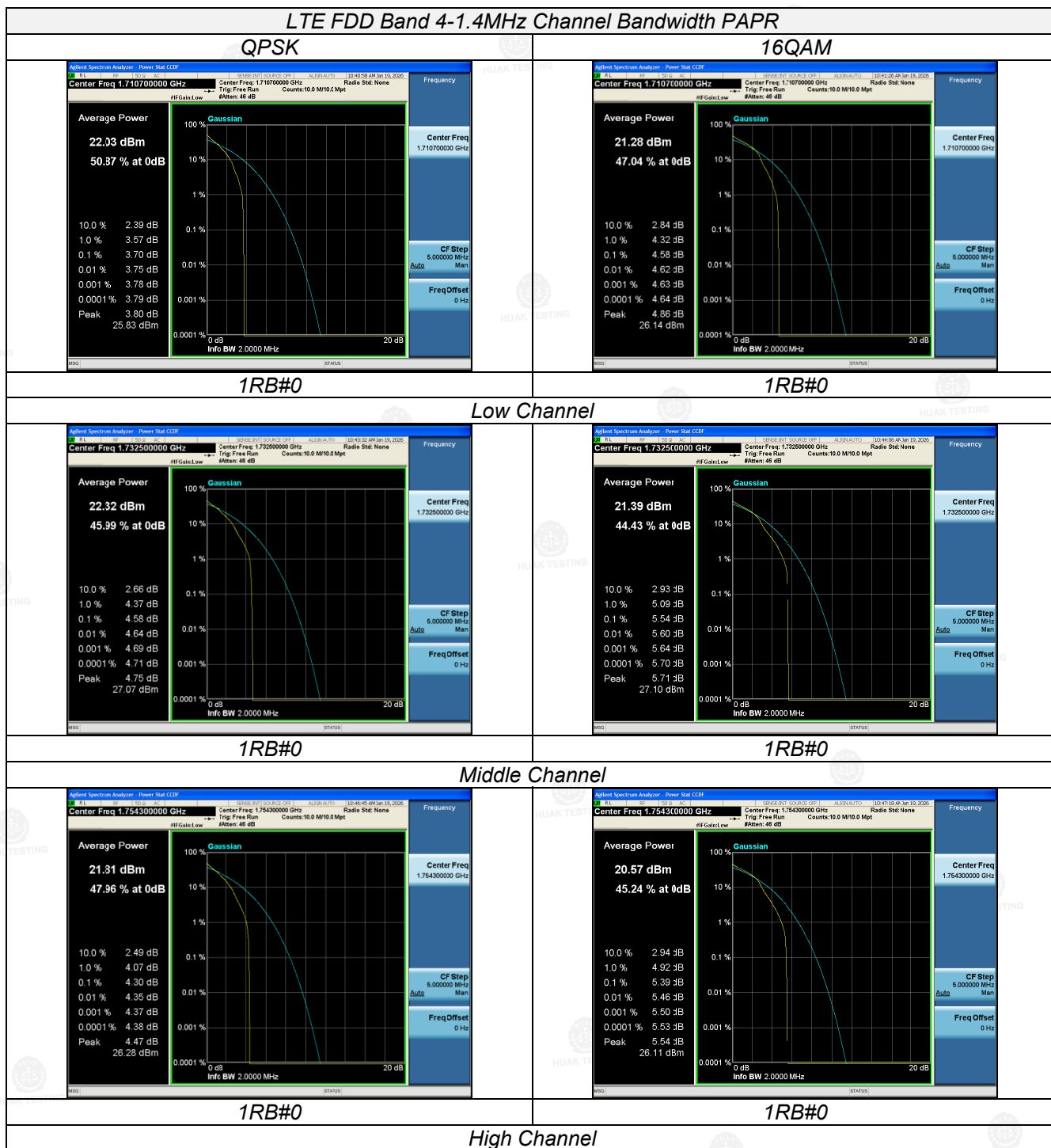
1. Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
2. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
3. Set the number of counts to a value that stabilizes the measured CCDF curve;
4. Set the measurement interval 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

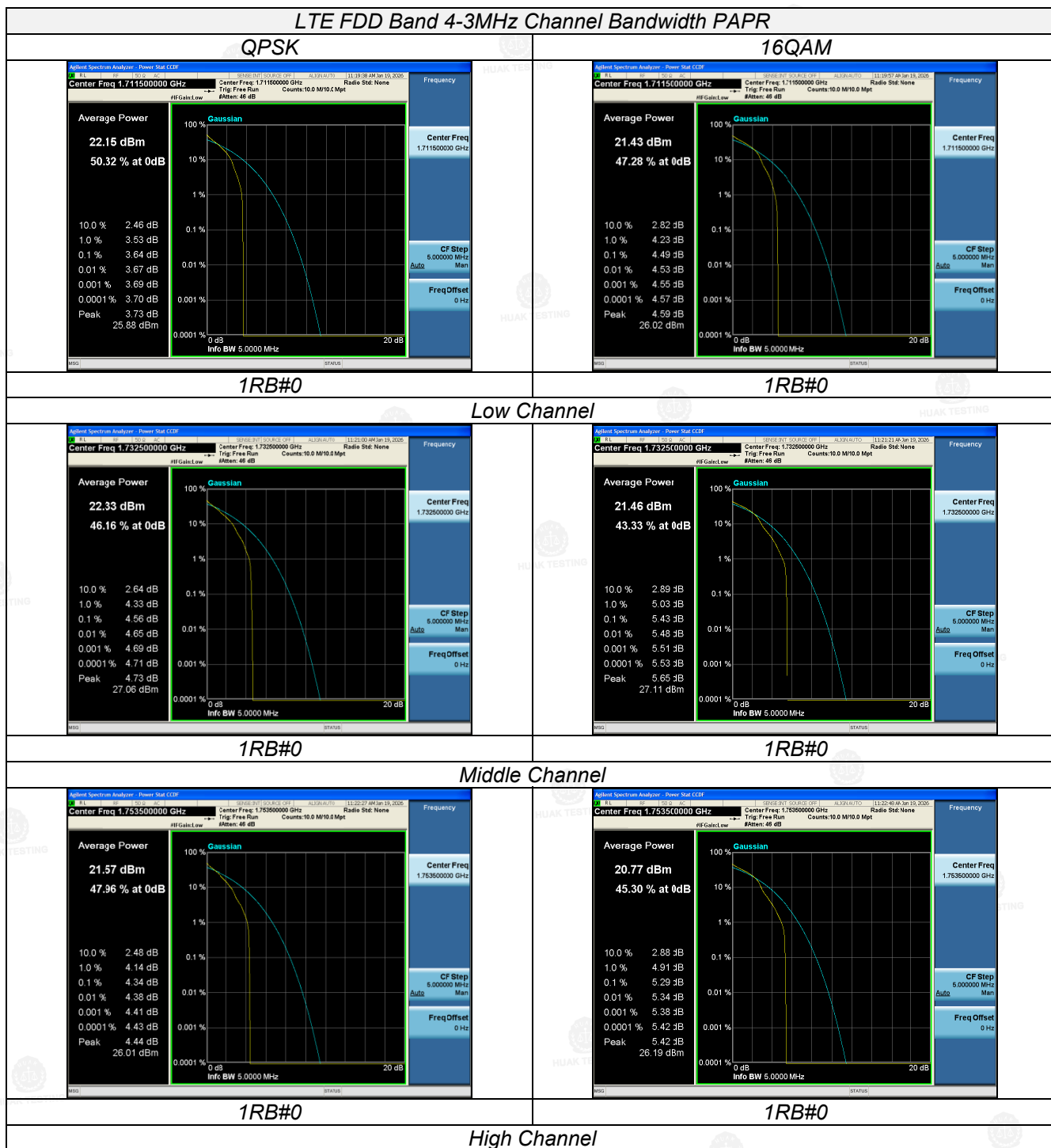
Remark:

1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 4; recorded worst case for each Channel Bandwidth of LTE FDD Band 4.

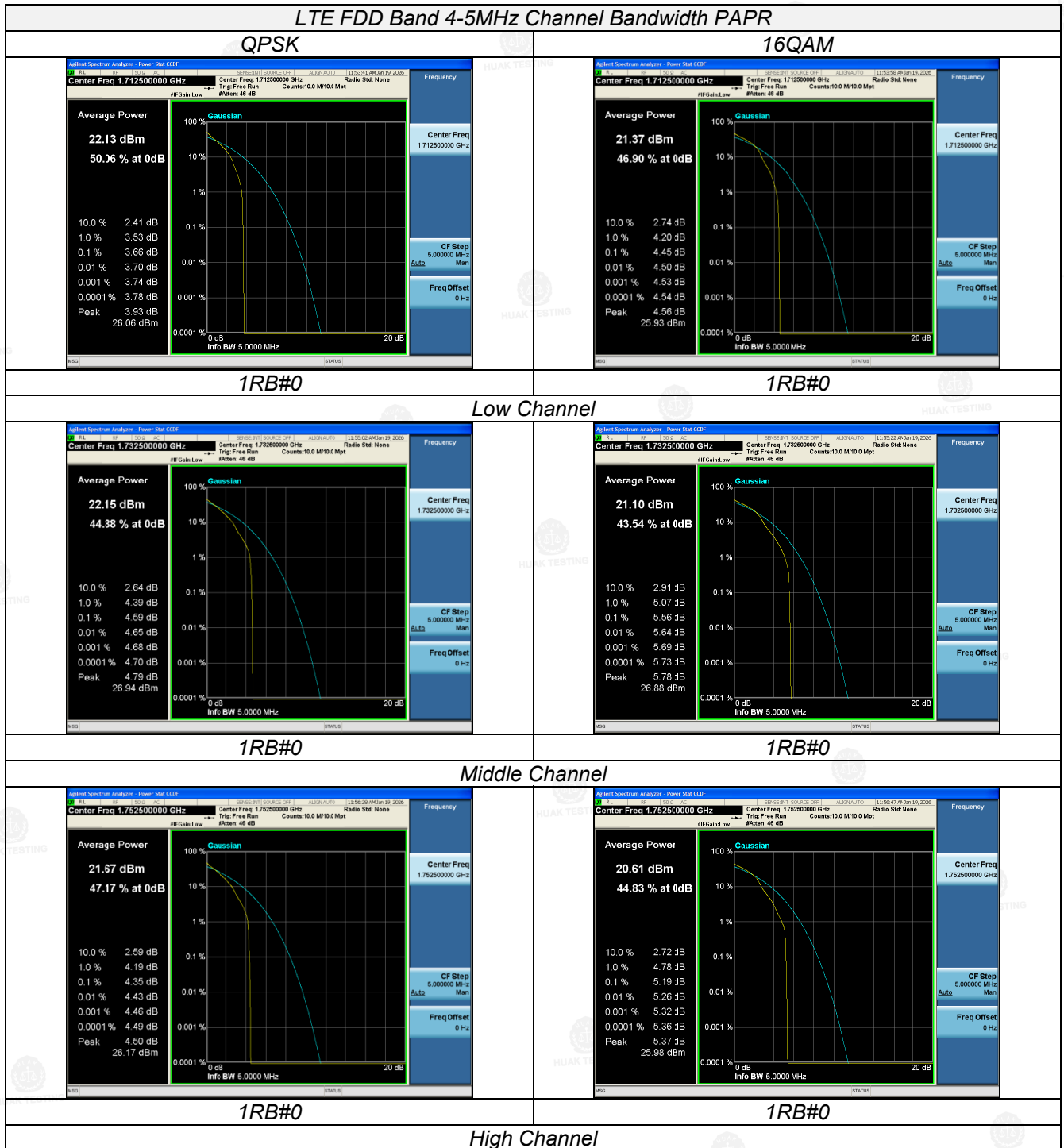
LTE FDD Band 4				
TX Channel Bandwidth	Frequency (MHz)	RB Size/Offset	PAPR (dB)	
			QPSK	16QAM
1.4 MHz	1710.7	1RB#0	3.70	4.58
	1732.5		4.58	5.54
	1754.3		4.30	5.39
3 MHz	1711.5	1RB#0	3.64	4.49
	1732.5		4.56	5.43
	1753.5		4.34	5.29
5 MHz	1712.5	1RB#0	3.66	4.45
	1732.5		4.59	5.56
	1752.5		4.35	5.19
10 MHz	1715.0	1RB#0	3.62	4.44
	1732.5		4.47	5.29
	1750.0		4.32	5.28
15 MHz	1717.5	1RB#0	3.63	4.43
	1732.5		4.42	5.30
	1747.5		4.41	5.37
20 MHz	1720.0	1RB#0	3.65	4.49
	1732.5		4.29	5.34
	1745.0		4.50	5.35



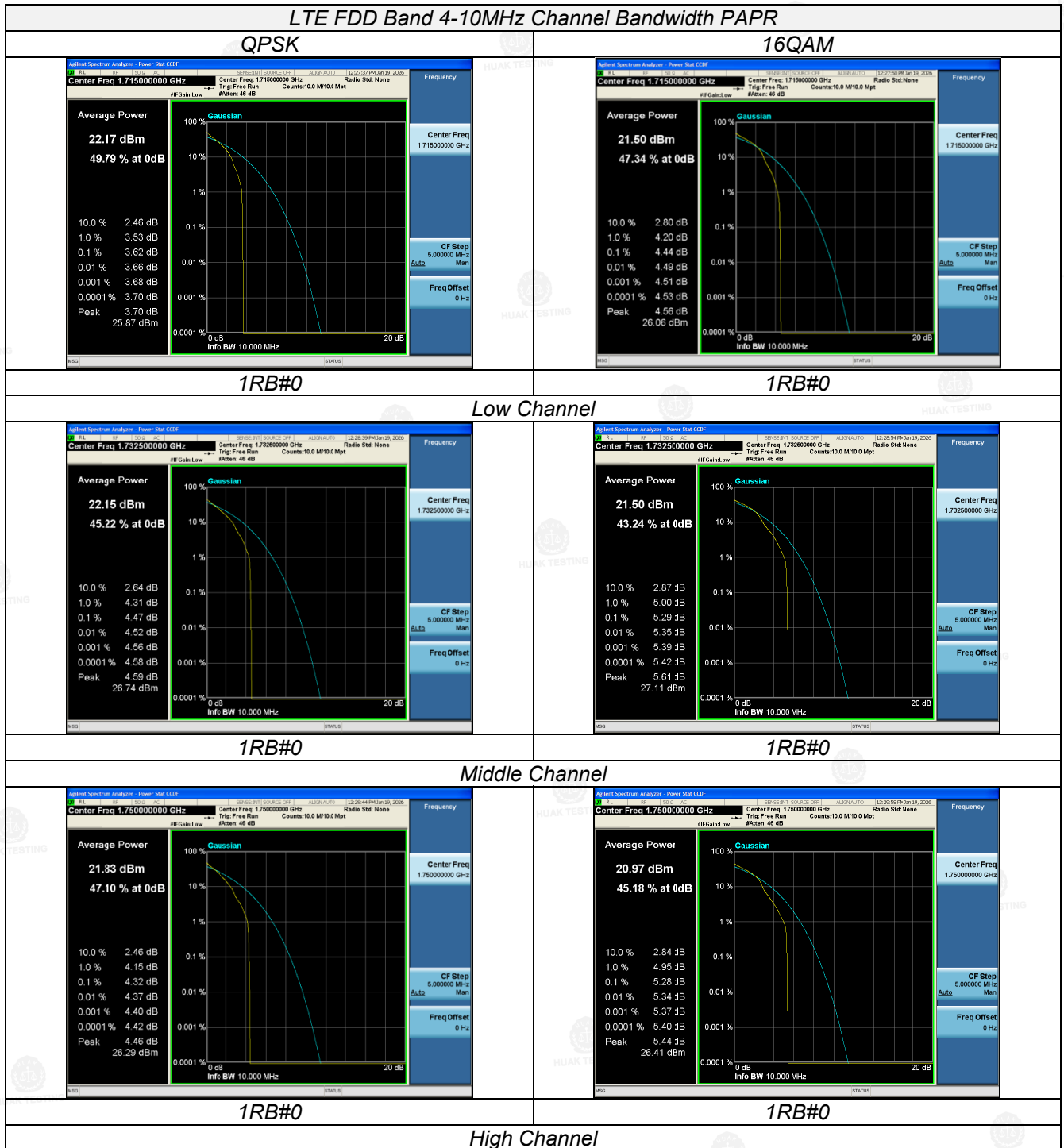
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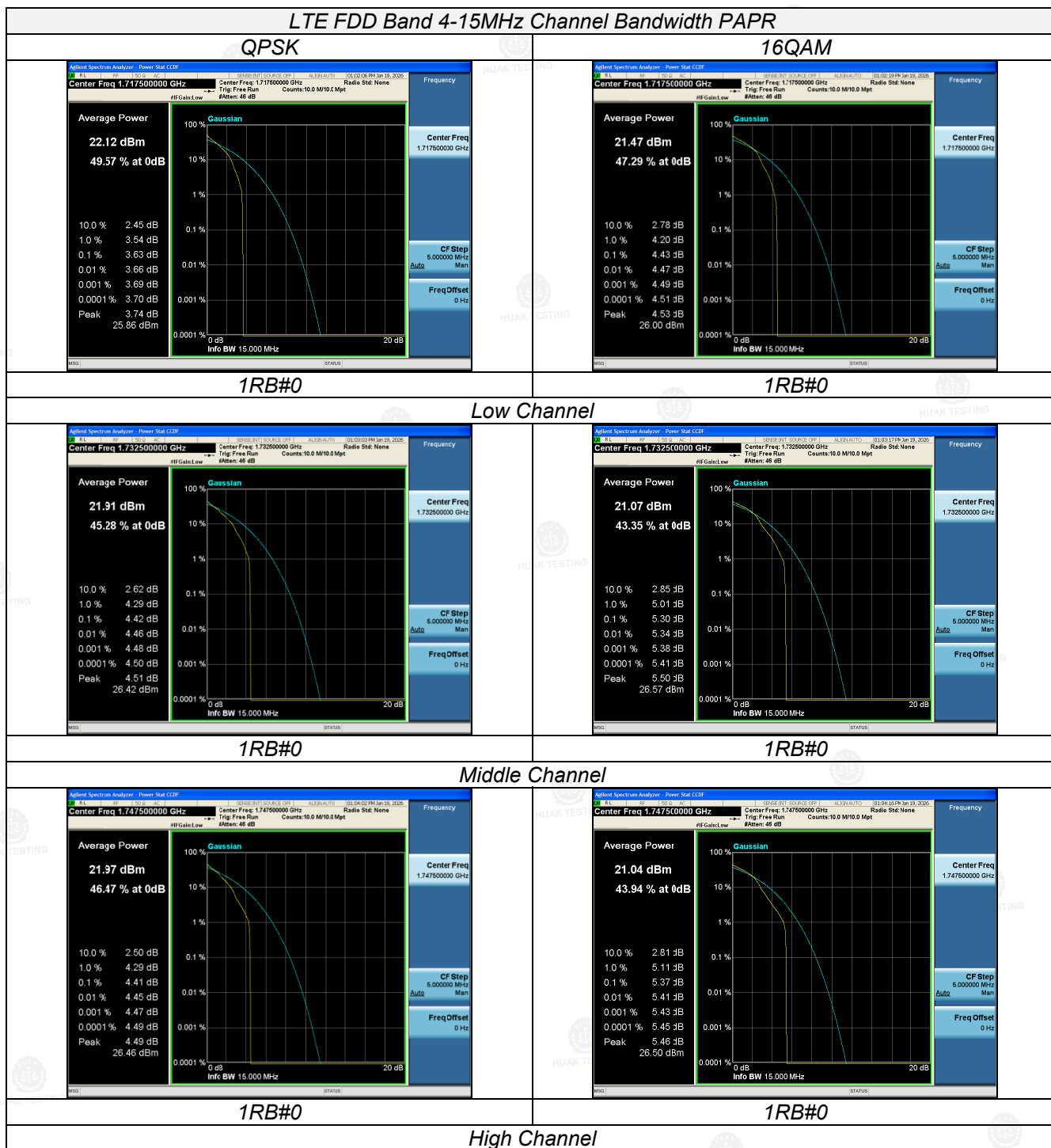


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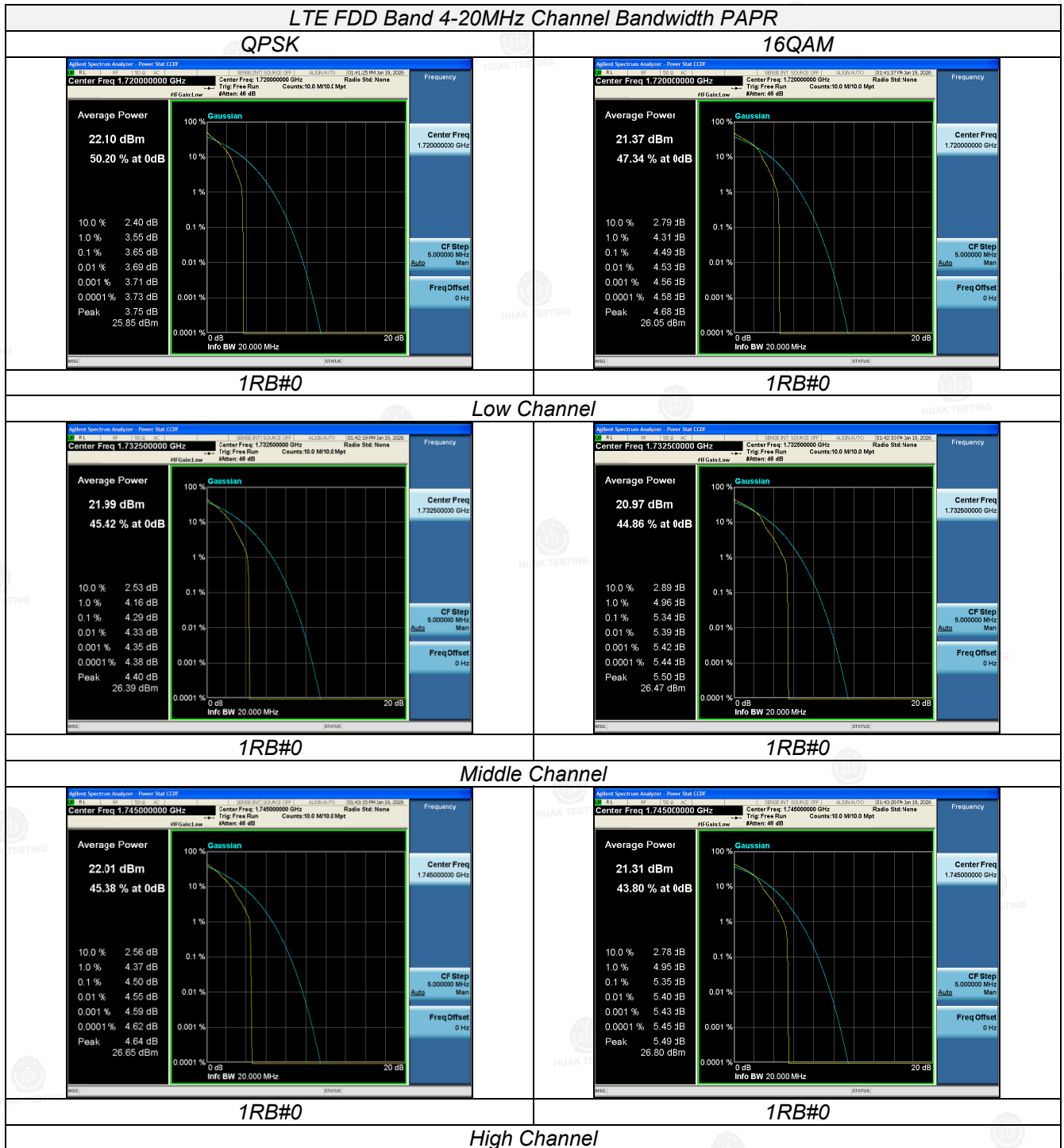


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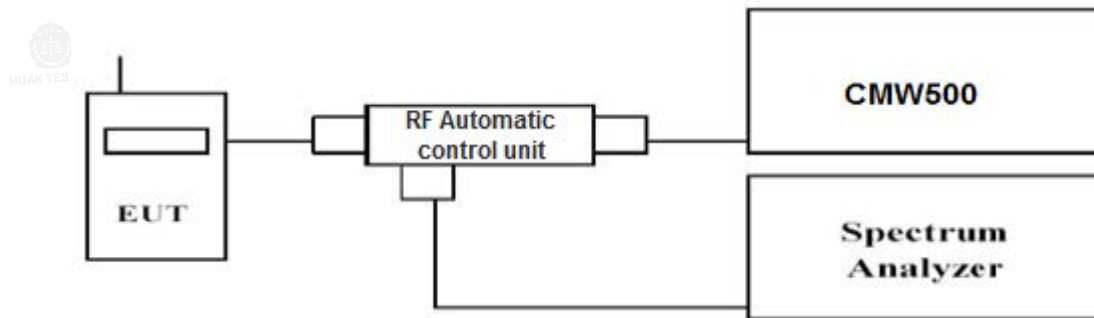


3.3 Occupied Bandwidth and Emission Bandwidth

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

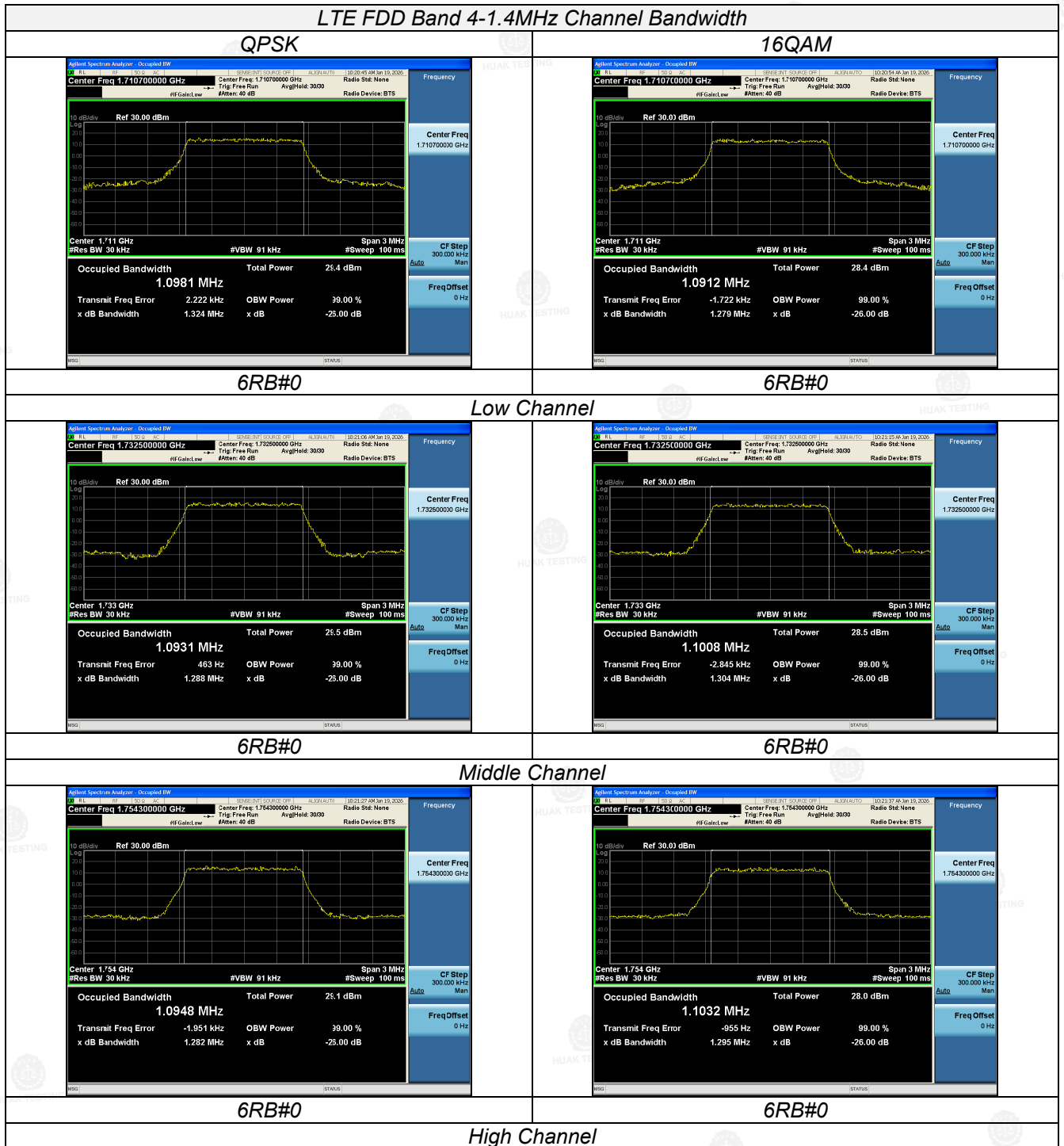
The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at low, middle and high channel in each band. The -26dBc Emission bandwidth was also measured and 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

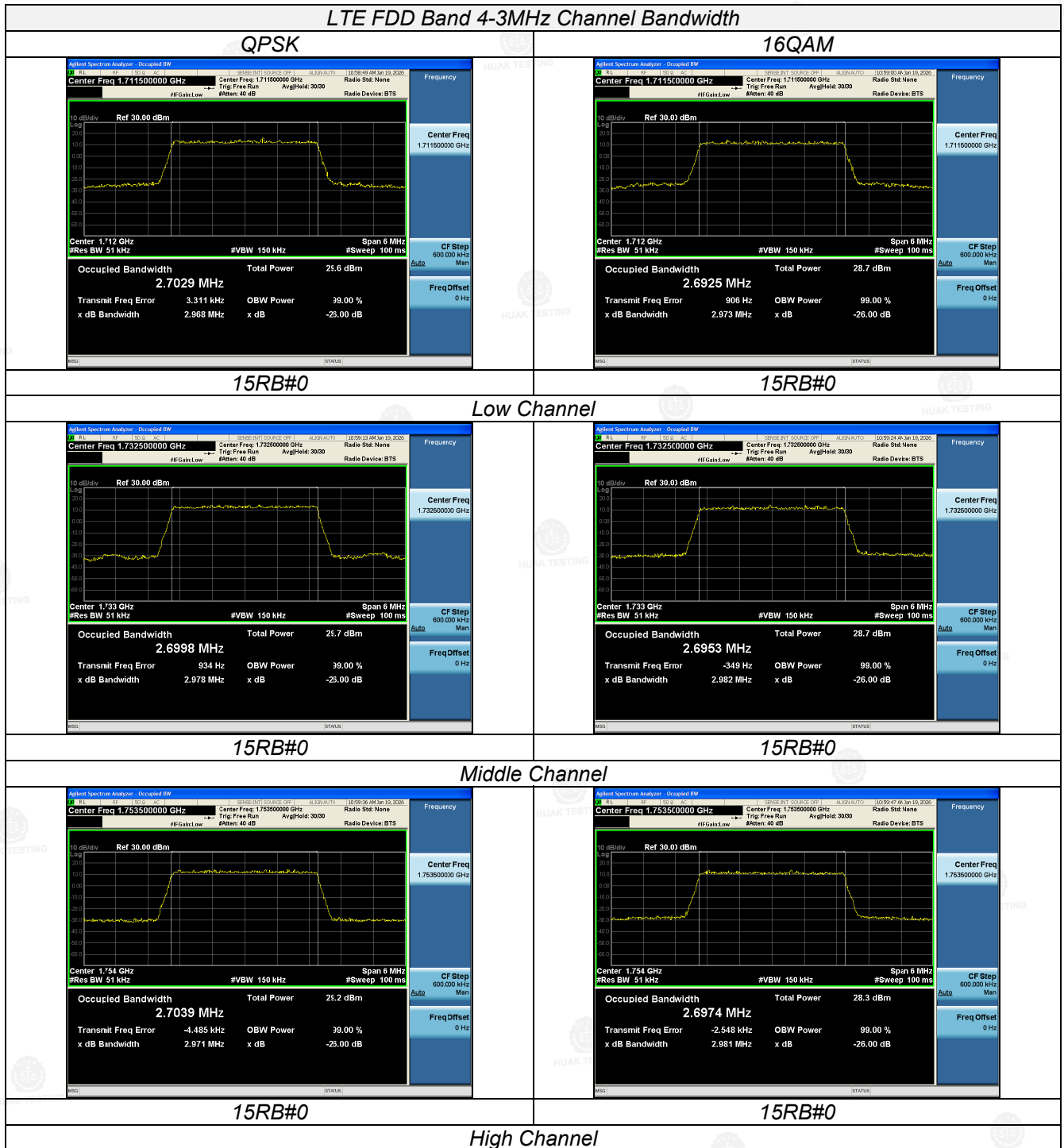
Remark:

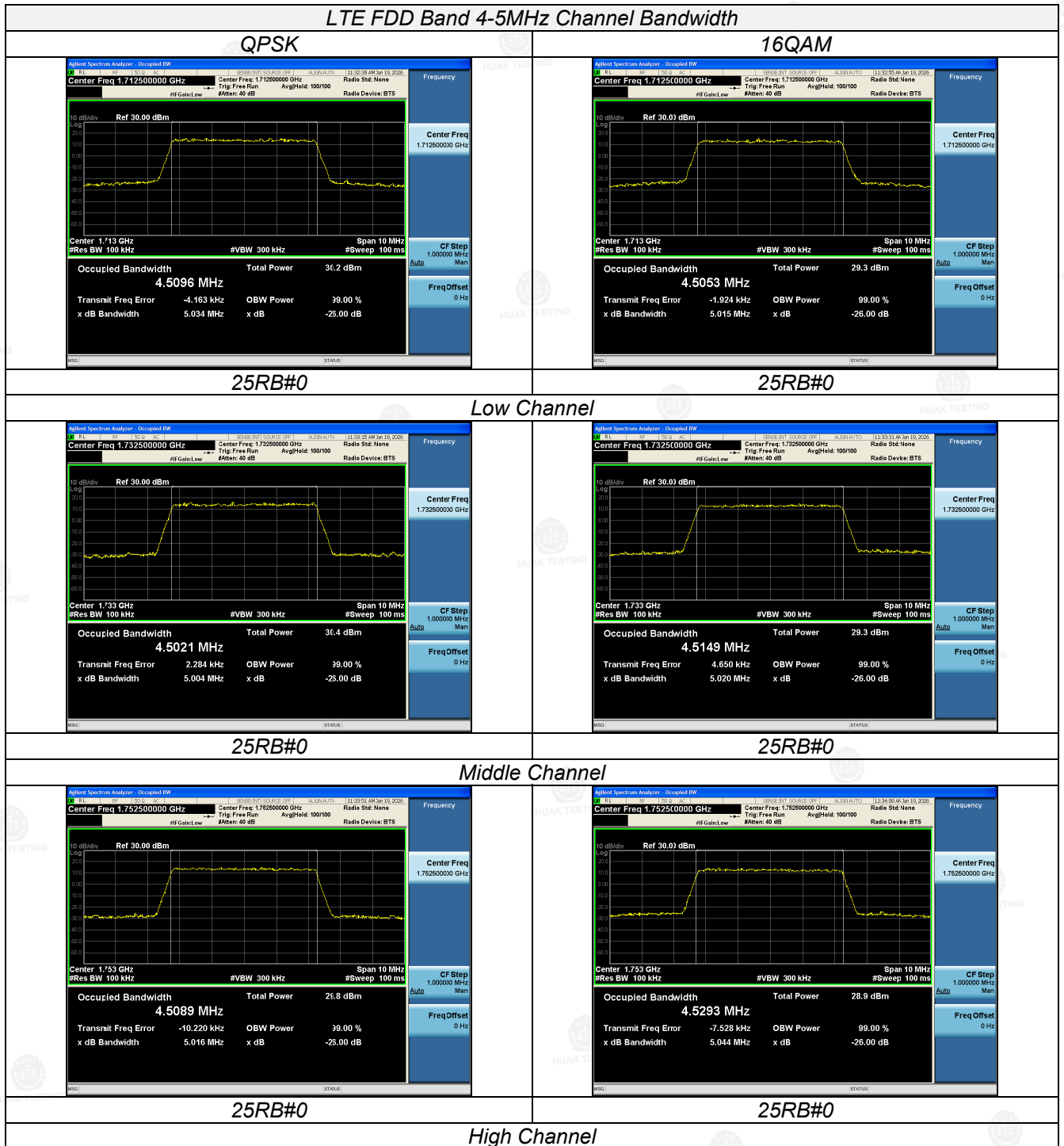
1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 4; recorded worst case for each Channel Bandwidth of LTE FDD Band 4.

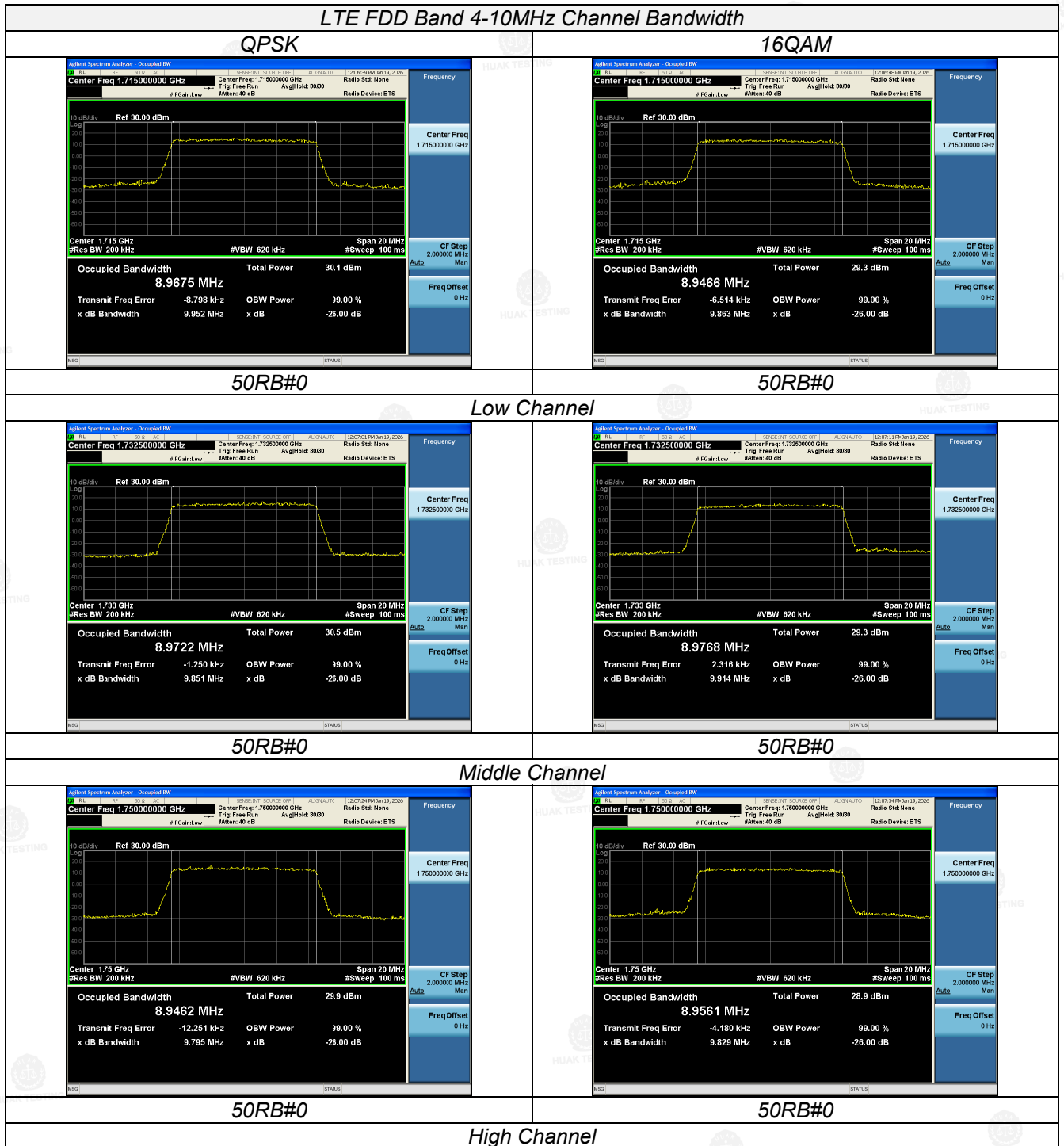
LTE FDD Band 4						
TX Channel Bandwidth	RB Size/Offset	Frequency (MHz)	-26dBc Emission bandwidth (MHz)		99% Occupied bandwidth (MHz)	
			QPSK	16QAM	QPSK	16QAM
1.4 MHz	6RB#0	1710.7	1.324	1.279	1.0981	1.0912
		1732.5	1.288	1.304	1.0931	1.1008
		1754.3	1.282	1.295	1.0948	1.1032
3 MHz	15RB#0	1711.5	2.968	2.973	2.7029	2.6925
		1732.5	2.978	2.982	2.6998	2.6953
		1753.5	2.971	2.981	2.7039	2.6974
5 MHz	25RB#0	1712.5	5.034	5.015	4.5096	4.5053
		1732.5	5.004	5.020	4.5021	4.5149
		1752.5	5.016	5.044	4.5089	4.5293
10 MHz	50RB#0	1715.0	9.952	9.863	8.9675	8.9466
		1732.5	9.851	9.914	8.9722	8.9768
		1750.0	9.795	9.829	8.9462	8.9561
15 MHz	75RB#0	1717.5	14.72	14.68	13.475	13.465
		1732.5	14.73	14.67	13.452	13.456
		1747.5	14.61	14.69	13.394	13.422
20 MHz	100RB#0	1720.0	19.36	19.54	17.924	17.918
		1732.5	19.42	19.52	17.929	17.950
		1745.0	19.56	19.34	17.880	17.831



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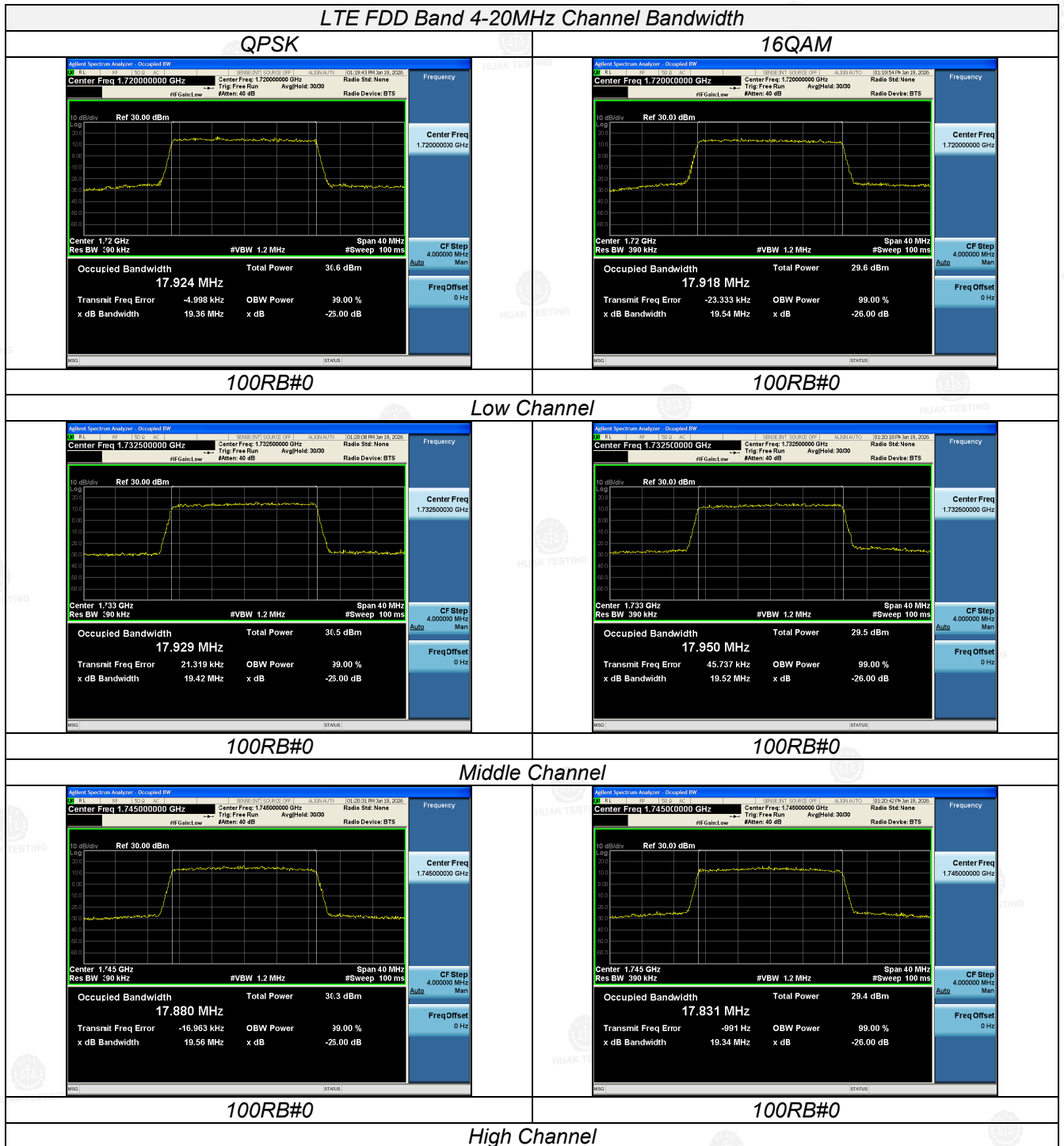




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