



HUAKE TESTING

FCC Test Report

Report Reference No.....: HK2604170426-2E

FCC ID.....: 2BV3B-DKZ-04A

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

Supervised by
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Approved by
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Date of issue.....: May 11, 2026

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

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Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong,
China

Applicant's Name: iTreks Technologies Pte Ltd

Address: 5 UPPER ALJUNIED LINK #06-02, QUARTZ INDUSTRIAL
BUILDING 367903 SINGAPORE

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: iTAS

Trade Mark: iTAS

Model Name: DKZ-04A

Series Model(s): N/A

Frequency.....: Cat1 Band 4

Rating: DC3V from Battery

Hardware Version.....: V01

Firmware Version: V1.16.3

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

Len Liao

Sliver Wan

Jason Zhou



TEST REPORT

Test Report No.:	HK2604170426-2E	May 11, 2026
		Date of issue

Product Name : iTAS

Model Name : DKZ-04A

Series Model(s) : N/A

Applicant : **iTreks Technologies Pte Ltd**

Address : 5 UPPER ALJUNIED LINK #06-02, QUARTZ INDUSTRIAL BUILDING 367903 SINGAPORE

Manufacturer : **Zhejiang Dingkun Environmental Technology Co., LTD**

Address : 2nd Floor, East, Building 4, No. 545 Xiandai Avenue, Gaoqiao Subdistrict (Development Zone), Tongxiang, Jiaxing, 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	May 11, 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%.

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.10dB	
Radiated Emission	Above 1GHz	4.32dB	
Conducted Disturbance	0.15~30MHz	3.20dB	



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	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	KEYSIGHT	N9020A	HKE-117	2026/02/06	1 Year
6	Spectrum analyzer	R&S	FSV3044	HKE-126	2026/02/06	1 Year
7	Preamplifier	Schwarzbeck	EMC051845SE	HKE-006	2026/02/04	1 Year
8	Preamplifier	Agilent	83051A	HKE-016	2026/02/04	1 Year
9	Preamplifier	QJD	QJD18-40-50	HKE-030	2026/02/05	1 Year
10	6dB Attenuator	Pasternack	6dB	HKE-152	2026/02/06	1 Year
11	EMI Test Receiver	R&S	ESR-7	HKE-010	2026/02/06	1 Year
12	Broadband Antenna	Schwarzbeck	VULB9168	HKE-167	2026/02/06	2 Year
13	Loop Antenna	COM-POWER	AL-130R	HKE-014	2026/02/06	2 Year
14	Horn Antenna	Schwarzbeck	9120D	HKE-013	2026/02/06	2 Year
15	Broadband Horn Antenna	A-INFO	LB-180400-KF	HKE-031	2026/02/06	2 Year
16	EMI Test Software	Tonscend	JS32-CE 2.5.0.6	HKE-081	/	/
17	EMI Test Software	Tonscend	JS32-RE 5.0.0	HKE-082	/	/
18	RF Automatic control unit	Tonscend	JS0806-1	HKE-096	2026/02/06	1 Year
19	High pass filter unit	Tonscend	JS0806-F	HKE-055	2026/02/06	1 Year
20	Wireless Communication Test Set	R&S	CMW500	HKE-027	2026/02/06	1 Year
21	High-low temperature chamber	Guangke	HT-80L	HKE-118	2025/06/09	1 Year
22	Temperature and humidity meter	Boyang	HTC-1	HKE-075	2025/06/09	1 Year
23	RF Test Software	Tonscend	JS1120-3 Version 3.5.39	HKE-083	/	/
24	RSE Test Software	Tonscend	JS36-RSE 5.0.0	HKE-184	/	/

2.5 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: 2BV3B-DKZ-04A 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

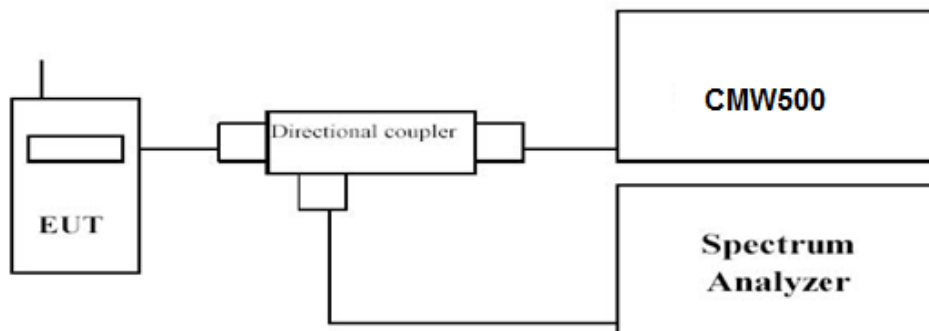
3.1 Output Power

LIMIT

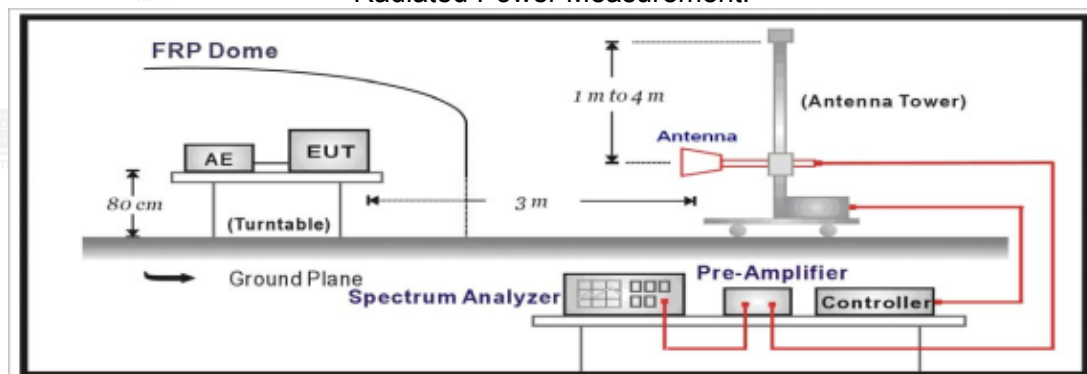
According to §27.50 (d) (4): Fixed, mobile, and portable (hand- held) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP.

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:

FDD Band 4				
TX Channel Bandwidth	Frequency (MHz)	RB Size/Offset	Average Power [dBm]	
			QPSK	16QAM
1.4 MHz	1710.7	1 RB low	21.62	20.65
		1 RB high	21.96	20.63
		50% RB mid	22.13	20.86
		100% RB	21.71	20.60
	1732.5	1 RB low	21.96	20.64
		1 RB high	21.35	20.18
		50% RB mid	21.16	20.16
		100% RB	21.15	19.99
	1754.3	1 RB low	20.52	19.09
		1 RB high	20.12	19.40
		50% RB mid	20.22	19.09
		100% RB	20.14	18.87
3 MHz	1711.5	1 RB low	21.42	20.36
		1 RB high	21.58	20.59
		50% RB mid	21.52	20.73
		100% RB	20.46	19.52
	1732.5	1 RB low	22.13	20.55
		1 RB high	21.26	20.53
		50% RB mid	20.90	19.79
		100% RB	20.20	19.24
	1753.5	1 RB low	20.37	18.89
		1 RB high	20.21	18.88
		50% RB mid	20.06	18.98
		100% RB	19.05	18.14

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5 MHz	1712.	1 RB low	21.52	20.09
		1 RB high	21.51	20.43
		50% RB mid	21.79	20.66
		100% RB	20.54	19.60
	1732.5	1 RB low	22.47	21.16
		1 RB high	21.42	20.56
		50% RB mid	21.03	20.16
		100% RB	20.31	19.45
	1752.5	1 RB low	20.31	18.99
		1 RB high	20.19	18.89
		50% RB mid	20.25	19.16
		100% RB	19.97	18.06
10 MHz	1715.0	1 RB low	21.46	20.62
		1 RB high	21.79	20.94
		50% RB mid	22.15	21.45
		100% RB	20.90	/
	1732.5	1 RB low	22.57	21.18
		1 RB high	21.52	20.63
		50% RB mid	20.83	19.66
		100% RB	20.52	/
	1750.0	1 RB low	20.20	18.82
		1 RB high	19.79	18.51
		50% RB mid	20.07	19.07
		100% RB	19.83	/
15 MHz	1717.5	1 RB low	21.81	20.73
		1 RB high	23.25	22.36
		50% RB mid	23.43	22.50
		100% RB	22.15	/
	1732.5	1 RB low	23.67	22.52
		1 RB high	22.89	21.66
		50% RB mid	21.85	21.17
		100% RB	21.99	/
	1747.5	1 RB low	21.43	20.48
		1 RB high	20.49	19.37
		50% RB mid	20.12	19.15
		100% RB	19.42	/
20 MHz	1720.0	1 RB low	21.94	20.72
		1 RB high	22.43	21.20
		50% RB mid	21.90	20.67
		100% RB	20.96	/
	1732.5	1 RB low	23.18	22.24
		1 RB high	21.77	20.54
		50% RB mid	20.82	20.08
		100% RB	21.70	/
	1745.0	1 RB low	21.04	19.85
		1 RB high	20.04	18.77
		50% RB mid	20.27	19.53
		100% RB	20.17	/

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Radiated Measurement

Remark:

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

$$EIRP = P_{Mea}(dBm) - G_a(dBi) + P_{cl}(dB) - P_{Ag}(dB)$$

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	65.02	3.06	9.68	34.80	23.60	30.00	6.40	V
1732.5	65.33	3.17	9.68	34.80	24.02	30.00	5.98	V
1754.3	66.12	3.22	9.75	34.80	24.79	30.00	5.21	V

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	65.57	3.06	9.68	34.80	24.15	30.00	5.85	V
1732.5	64.94	3.17	9.68	34.80	23.63	30.00	6.37	V
1753.5	66.30	3.22	9.75	34.80	24.97	30.00	5.03	V

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	65.03	3.06	9.68	34.80	23.61	30.00	6.39	V
1732.5	65.61	3.17	9.68	34.80	24.30	30.00	5.70	V
1752.5	66.02	3.22	9.75	34.80	24.69	30.00	5.31	V

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	64.99	3.06	9.68	34.80	23.57	30.00	6.43	V
1732.5	65.57	3.17	9.68	34.80	24.26	30.00	5.74	V
1750.0	65.74	3.22	9.75	34.80	24.41	30.00	5.59	V

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	65.67	3.06	9.68	34.80	24.25	30.00	5.75	V
1732.5	65.26	3.17	9.68	34.80	23.95	30.00	6.05	V
1747.5	66.51	3.22	9.75	34.80	25.18	30.00	4.82	V

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	65.65	3.06	9.68	34.80	24.23	30.00	5.77	V
1732.5	65.58	3.17	9.68	34.80	24.27	30.00	5.73	V
1745.0	66.53	3.22	9.75	34.80	25.20	30.00	4.80	V

**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	65.72	3.06	9.68	34.80	24.30	30.00	5.70	V
1732.5	65.67	3.17	9.68	34.80	24.36	30.00	5.64	V
1754.3	66.52	3.22	9.75	34.80	25.19	30.00	4.81	V

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	64.86	3.06	9.68	34.80	23.44	30.00	6.56	V
1732.5	64.99	3.17	9.68	34.80	23.68	30.00	6.32	V
1753.5	65.91	3.22	9.75	34.80	24.58	30.00	5.42	V

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	65.55	3.06	9.68	34.80	24.13	30.00	5.87	V
1732.5	65.45	3.17	9.68	34.80	24.14	30.00	5.86	V
1752.5	66.09	3.22	9.75	34.80	24.76	30.00	5.24	V

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	64.99	3.06	9.68	34.80	23.57	30.00	6.43	V
1732.5	65.25	3.17	9.68	34.80	23.94	30.00	6.06	V
1750.0	66.12	3.22	9.75	34.80	24.79	30.00	5.21	V

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	65.30	3.06	9.68	34.80	23.88	30.00	6.12	V
1732.5	65.13	3.17	9.68	34.80	23.82	30.00	6.18	V
1747.5	66.54	3.22	9.75	34.80	25.21	30.00	4.79	V

FDD Band 4 Channel Bandwidth 20MHz_16QAM

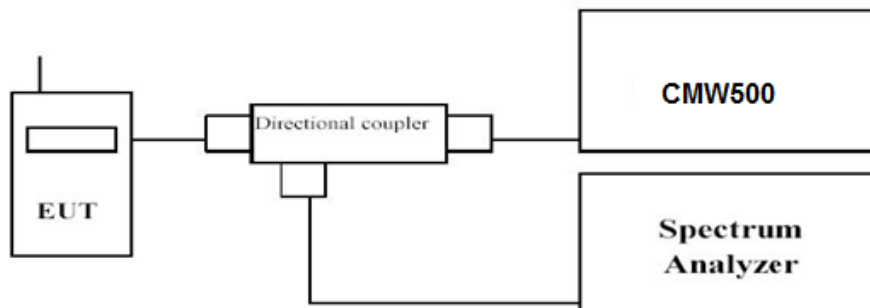
Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1720.0	65.02	3.06	9.68	34.80	23.60	30.00	6.40	V
1732.5	65.65	3.17	9.68	34.80	24.34	30.00	5.66	V
1745.0	66.60	3.22	9.75	34.80	25.27	30.00	4.73	V

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

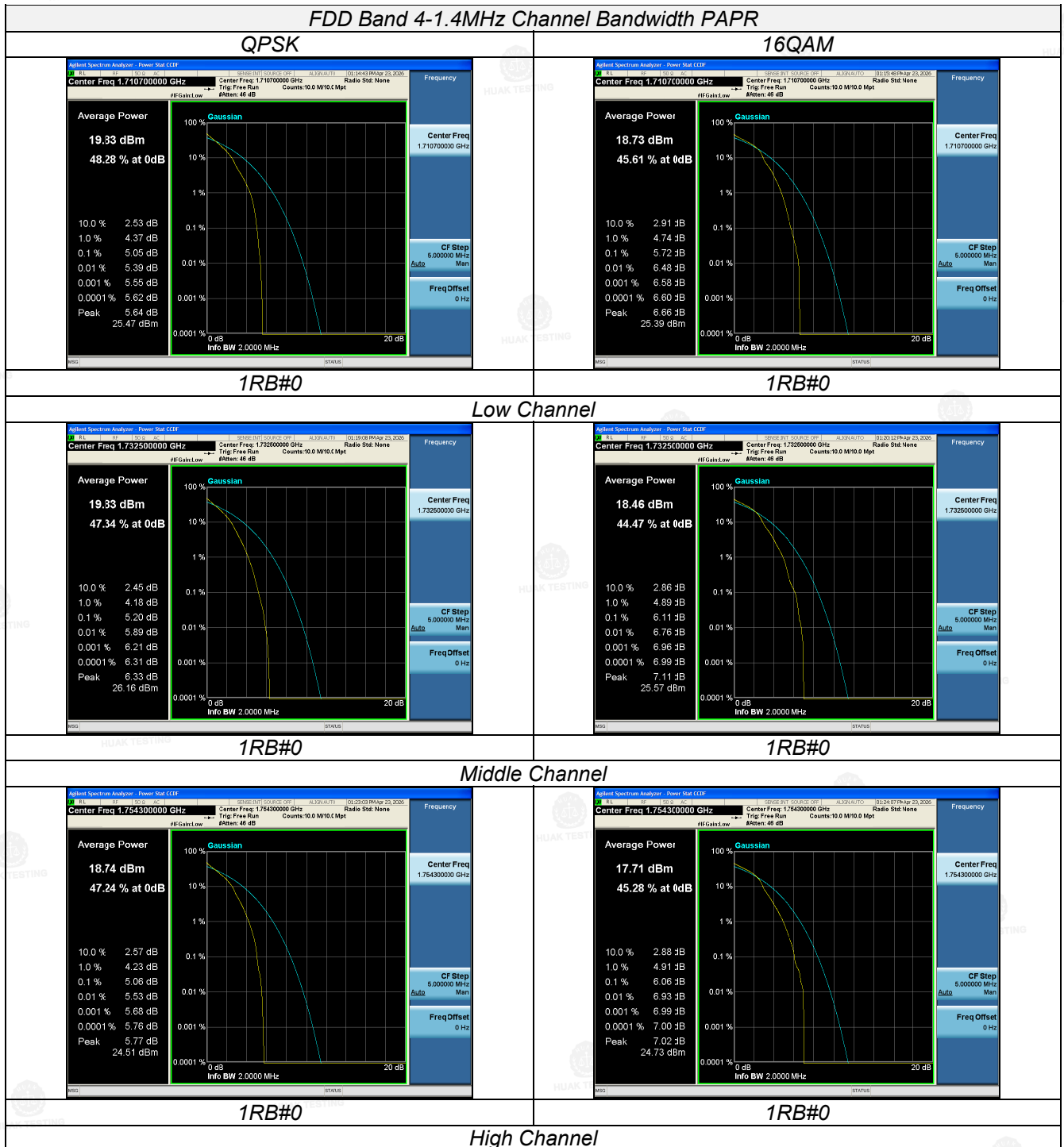
1. Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
2. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
3. Set the number of counts to a value that stabilizes the measured CCDF curve;
4. Set the measurement interval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

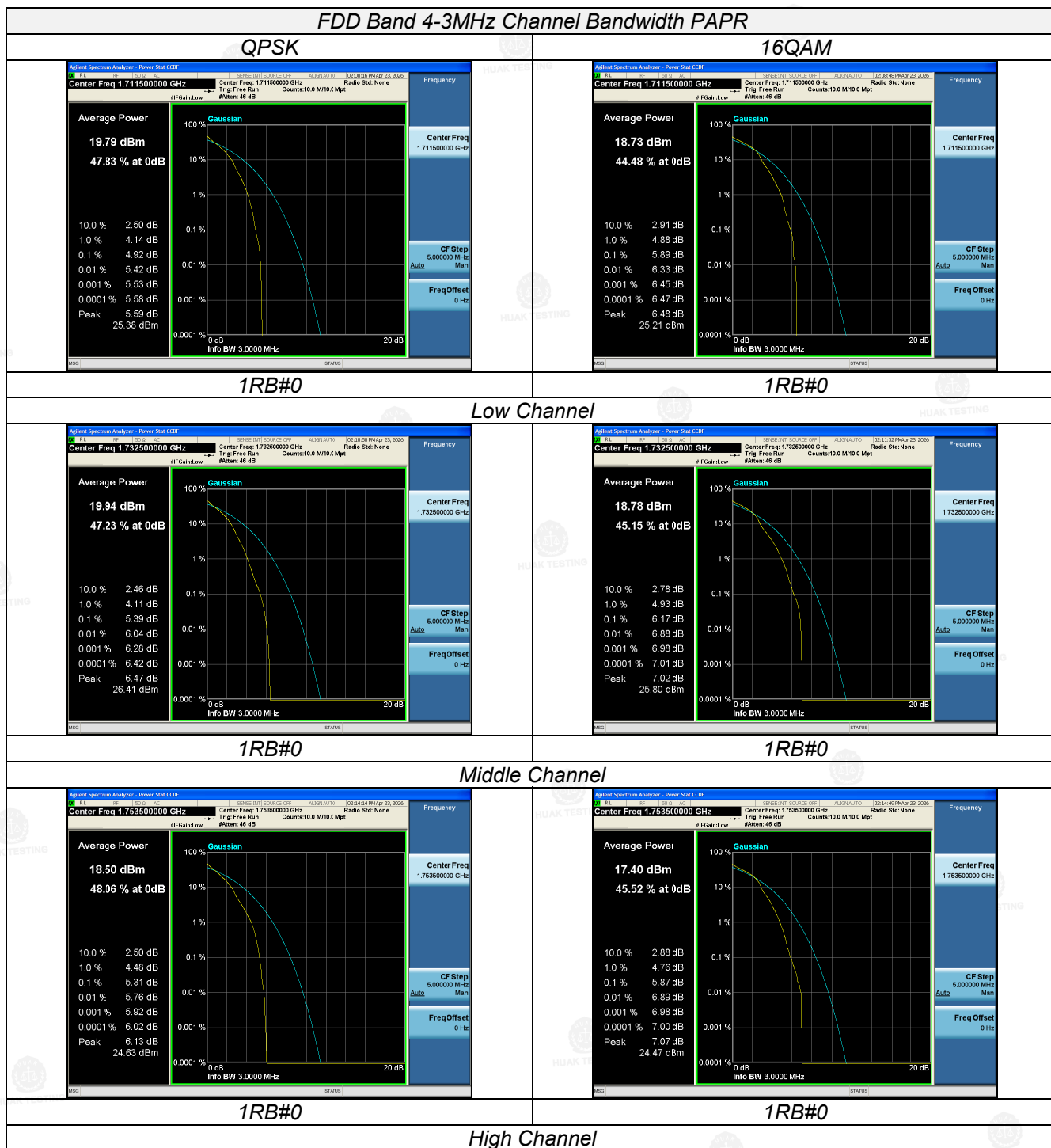
Remark:

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

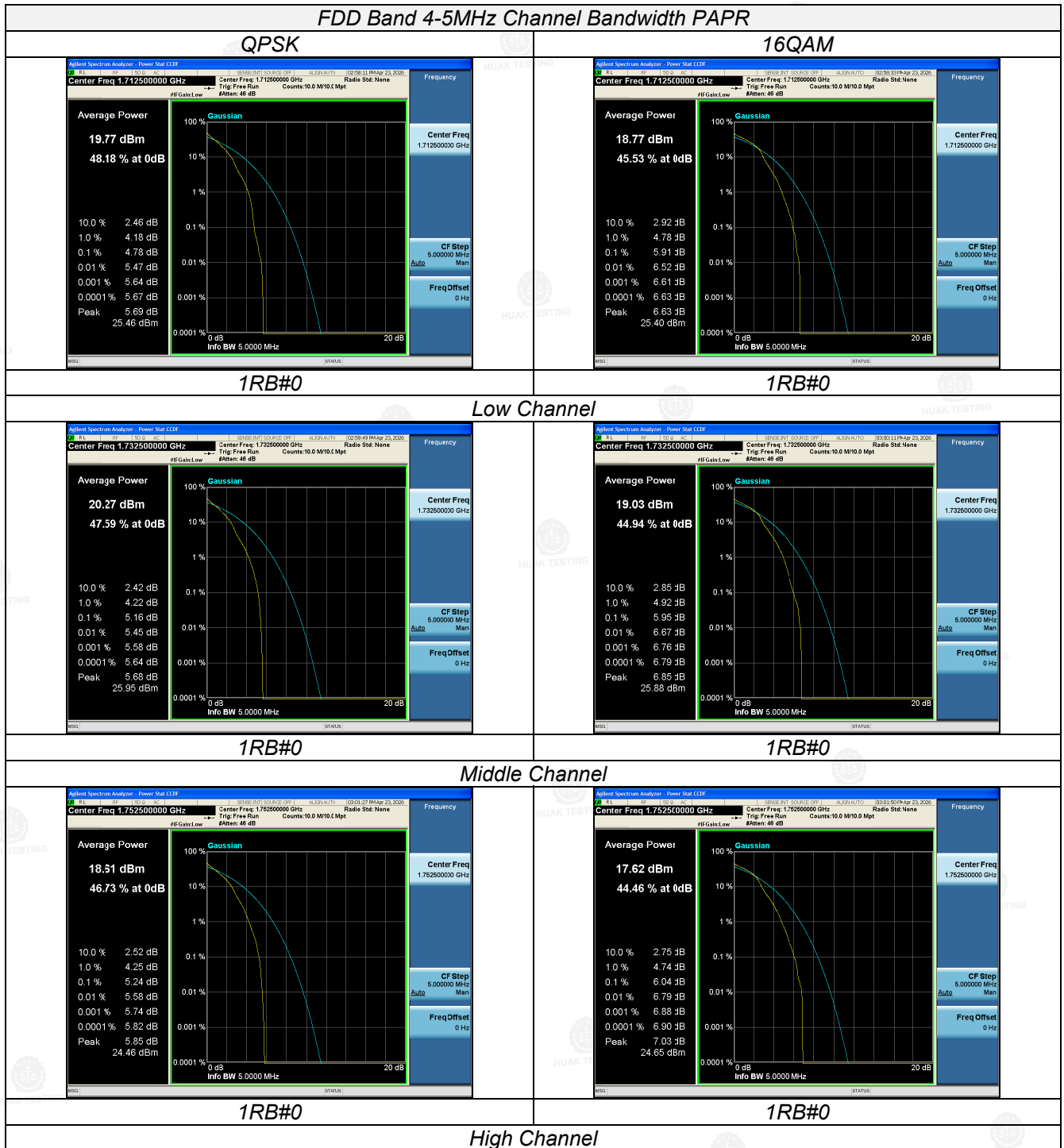
FDD Band 4				
TX Channel Bandwidth	Frequency (MHz)	RB Size/Offset	PAPR (dB)	
			QPSK	16QAM
1.4 MHz	1710.7	1RB#0	5.05	5.72
	1732.5		5.20	6.11
	1754.3		5.06	6.06
3 MHz	1711.5	1RB#0	4.92	5.89
	1732.5		5.39	6.17
	1753.5		5.31	5.87
5 MHz	1712.5	1RB#0	4.78	5.91
	1732.5		5.16	5.95
	1752.5		5.24	6.04
10 MHz	1715.0	1RB#0	4.92	5.57
	1732.5		5.05	6.03
	1750.0		5.37	6.07
15 MHz	1717.5	1RB#0	4.81	5.79
	1732.5		5.07	5.94
	1747.5		5.38	6.42
20 MHz	1720.0	1RB#0	4.93	4.76
	1732.5		4.61	5.31
	1745.0		5.30	5.51



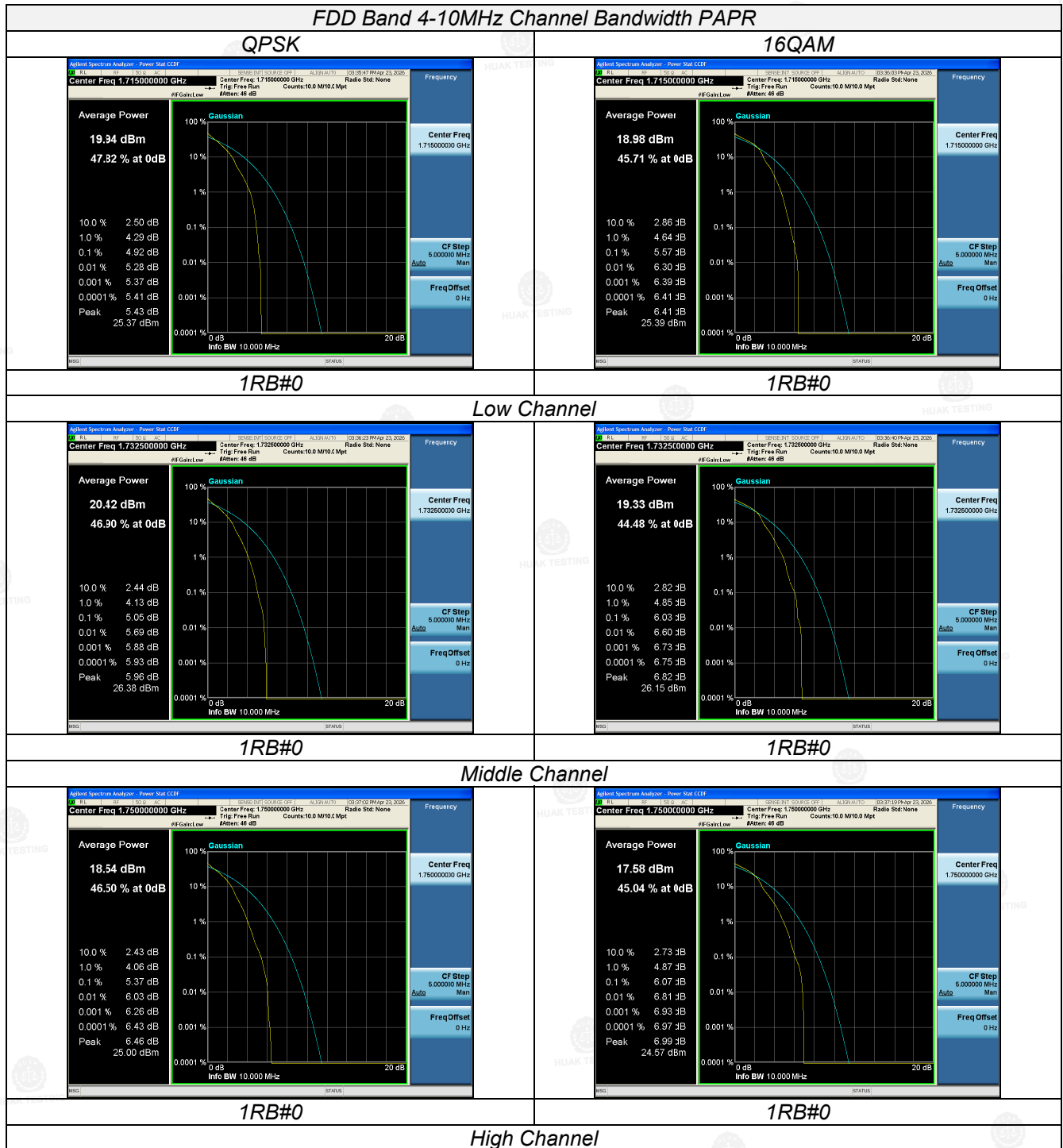
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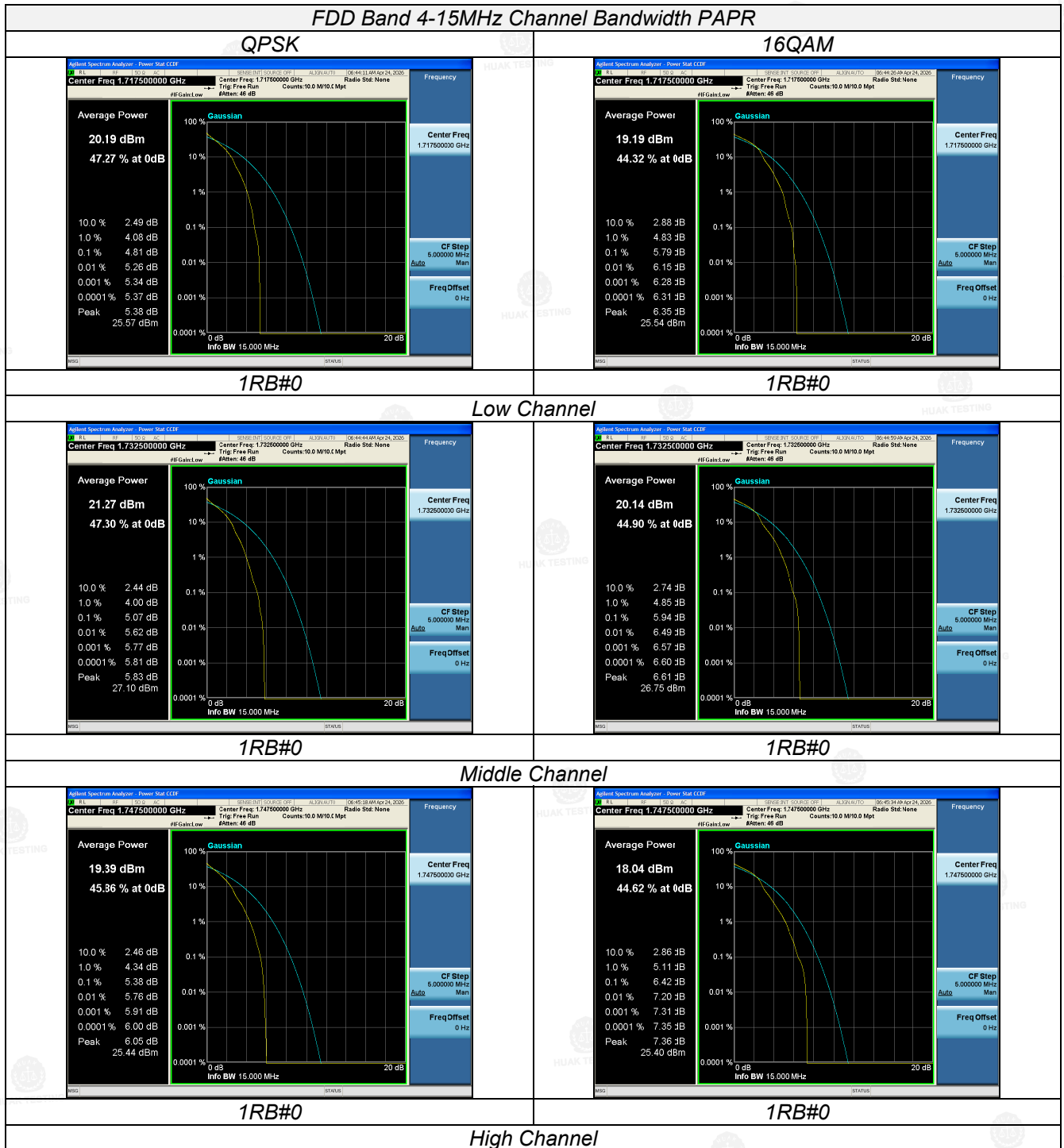


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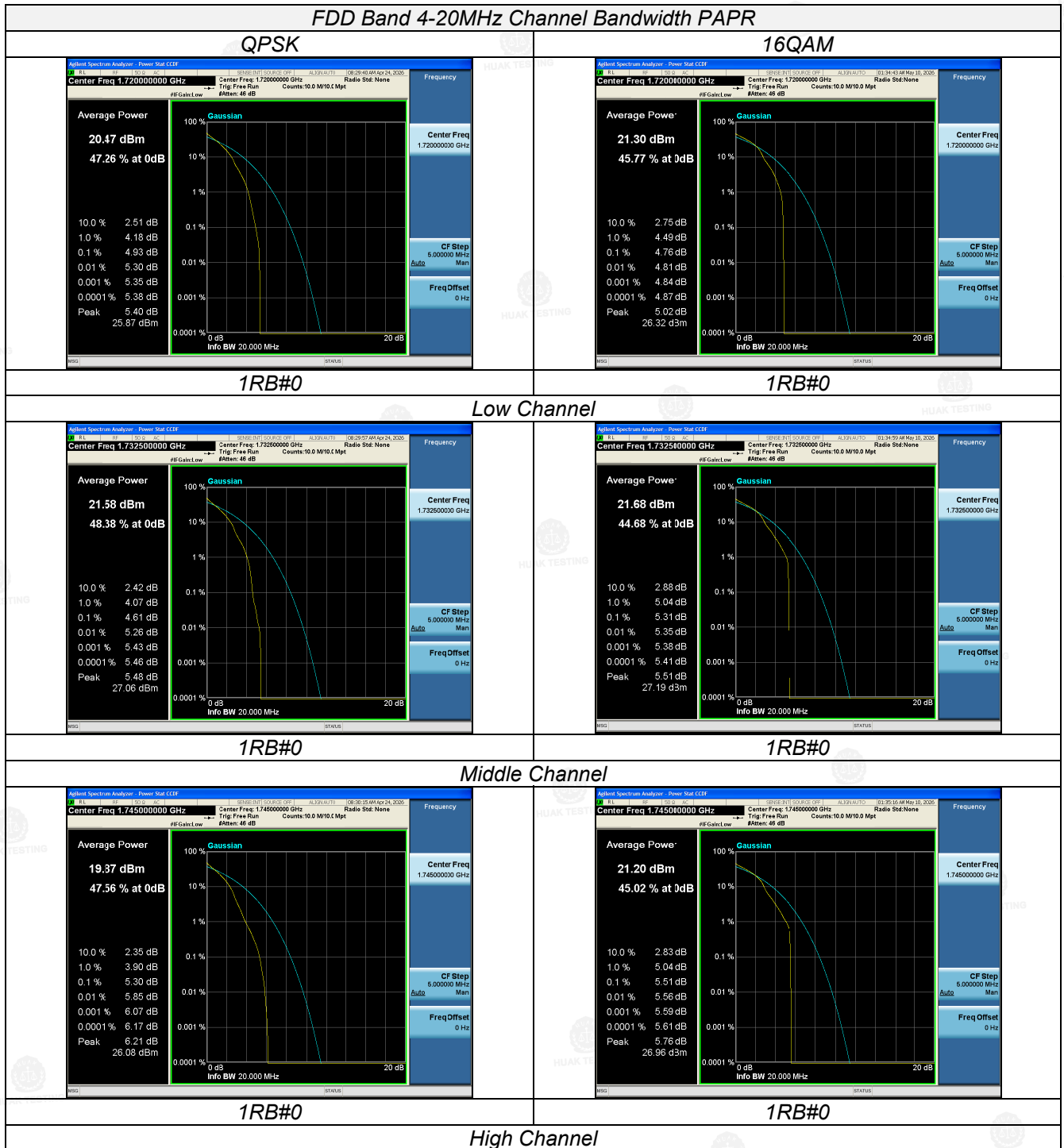


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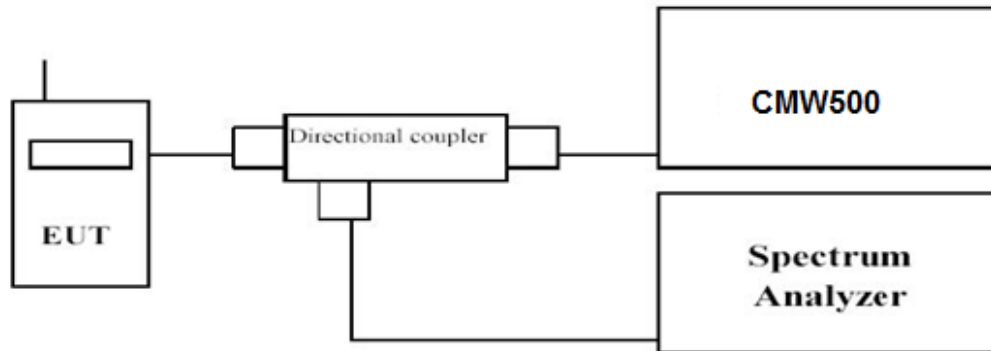


3.3 Occupied Bandwidth and Emission Bandwidth

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 $\geq$ 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.

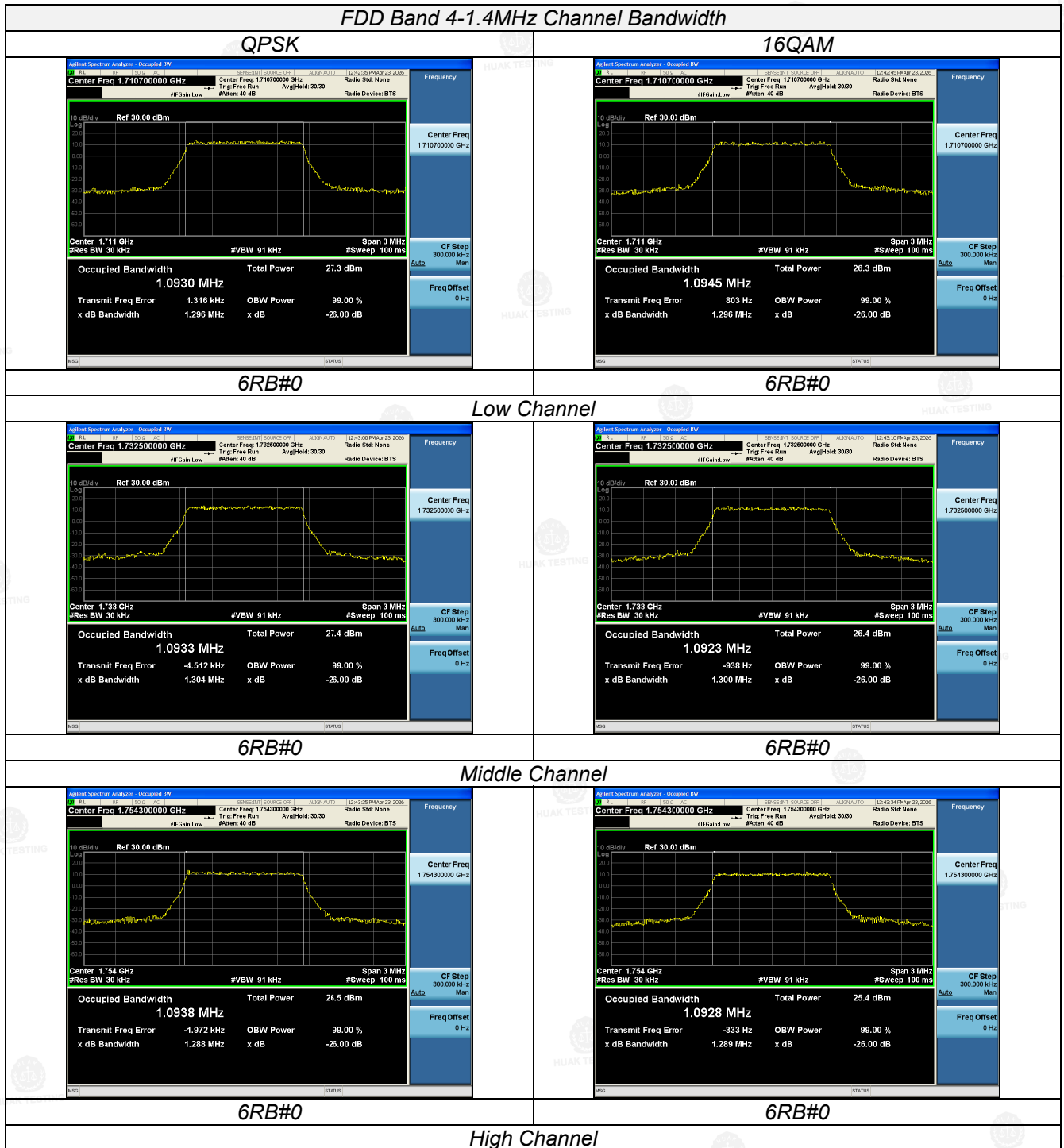
TEST RESULTS

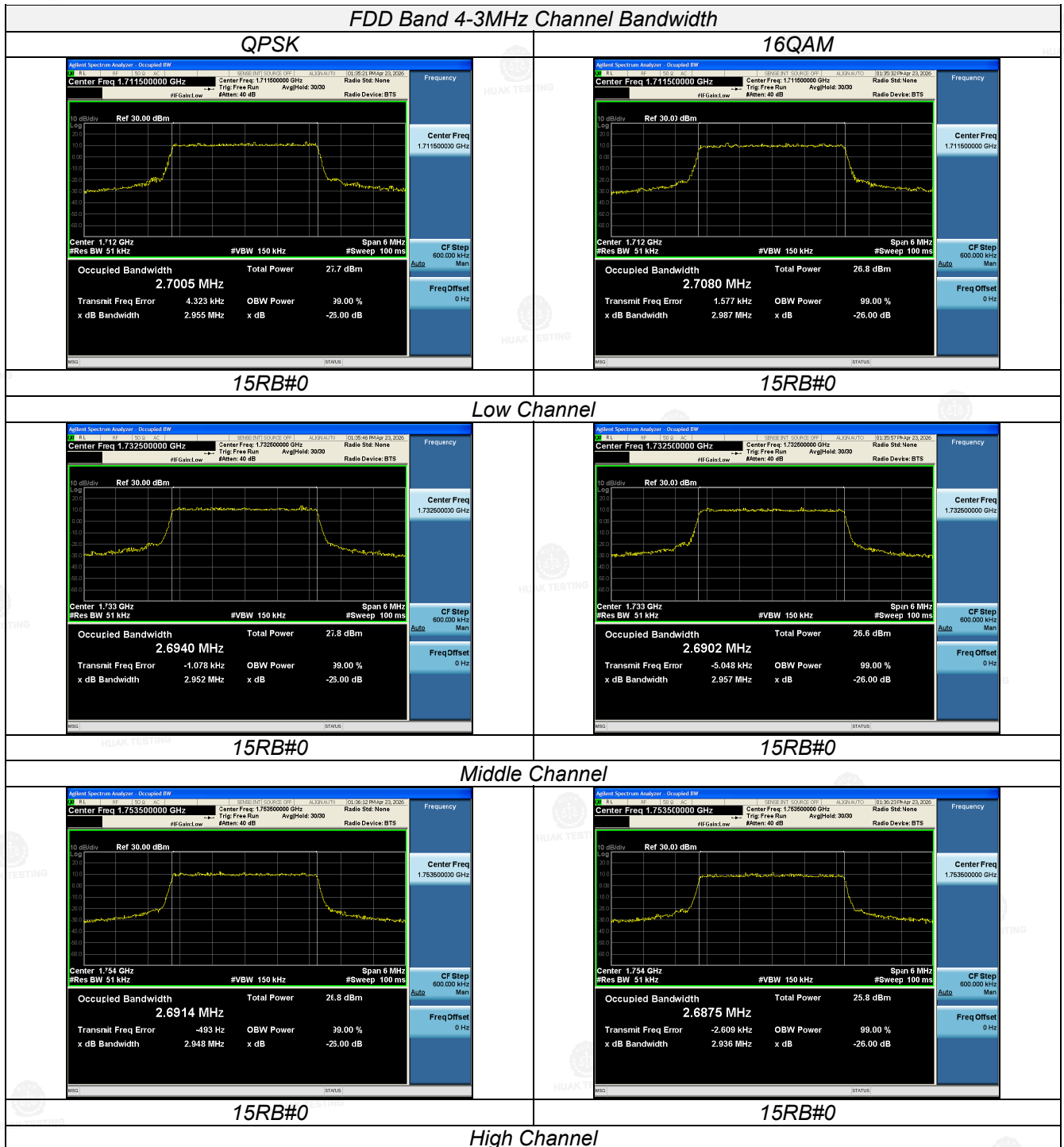
Remark:

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

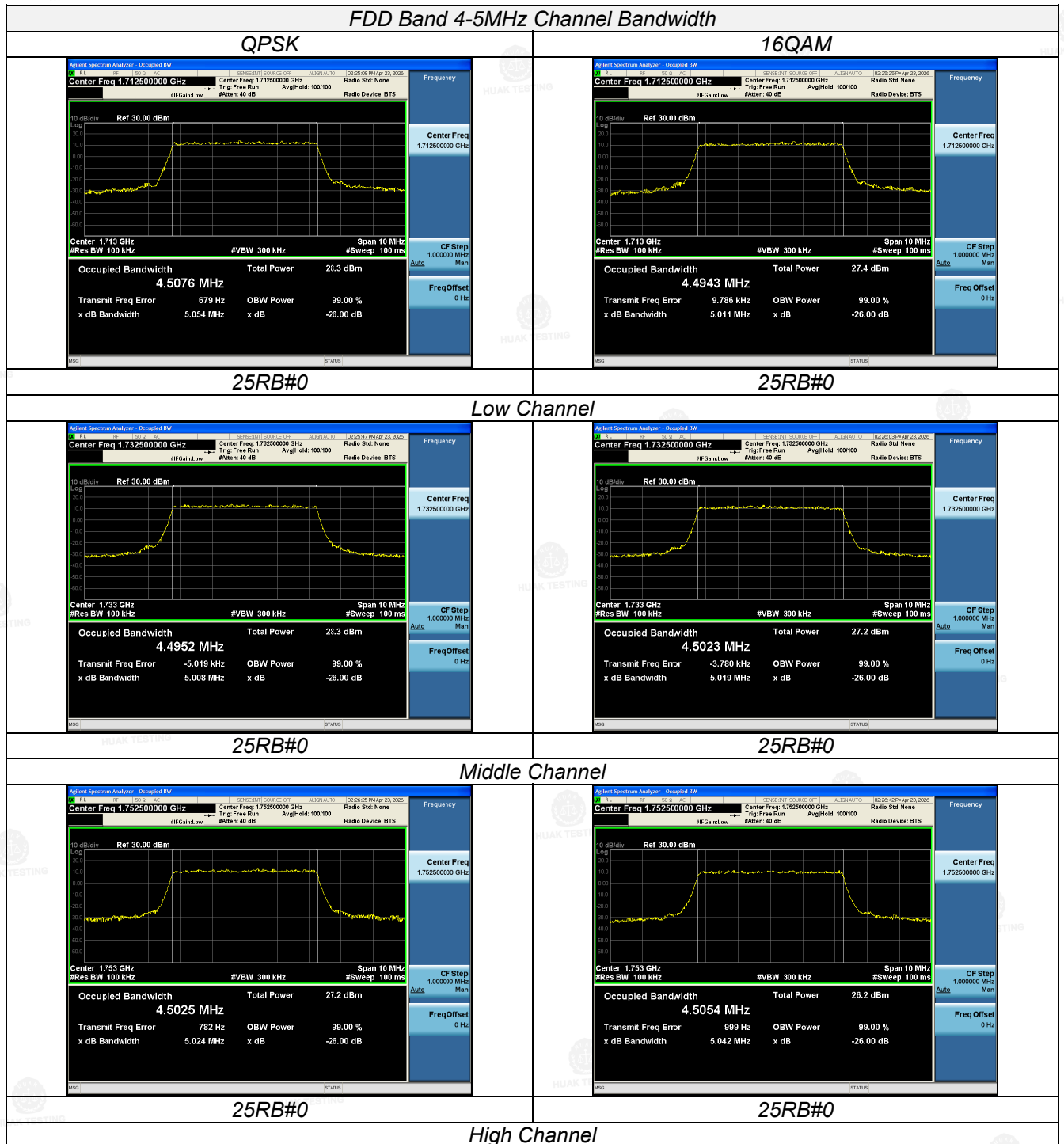
FDD Band 4						
TX Channel Bandwidth	RB Size/Offset	Frequency (MHz)	-26dBc Emission bandwidth (MHz)		99% Occupied bandwidth (MHz)	
			QPSK	16QAM	QPSK	16QAM
1.4 MHz	6RB#0	1710.7	1.296	1.296	1.0930	1.0945
		1732.5	1.304	1.300	1.0933	1.0923
		1754.3	1.288	1.289	1.0938	1.0928
3 MHz	15RB#0	1711.5	2.955	2.987	2.7005	2.7080
		1732.5	2.952	2.957	2.6940	2.6902
		1753.5	2.948	2.936	2.6914	2.6875
5 MHz	25RB#0	1712.5	5.054	5.011	4.5076	4.4943
		1732.5	5.008	5.019	4.4952	4.5023
		1752.5	5.024	5.042	4.5025	4.5054
10 MHz	50RB#0	1715.0	10.19	5.434	8.9680	4.6205
		1732.5	10.13	5.525	8.9927	4.6288
		1750.0	10.24	5.494	8.9972	4.6368
15 MHz	75RB#0	1717.5	15.20	8.996	13.472	6.7841
		1732.5	15.42	9.408	13.531	6.8967
		1747.5	15.34	8.971	13.551	6.7967
20 MHz	100RB#0	1720.0	19.85	10.74	17.901	9.2276
		1732.5	20.21	10.82	17.996	9.1725
		1745.0	20.23	10.74	17.994	9.1859

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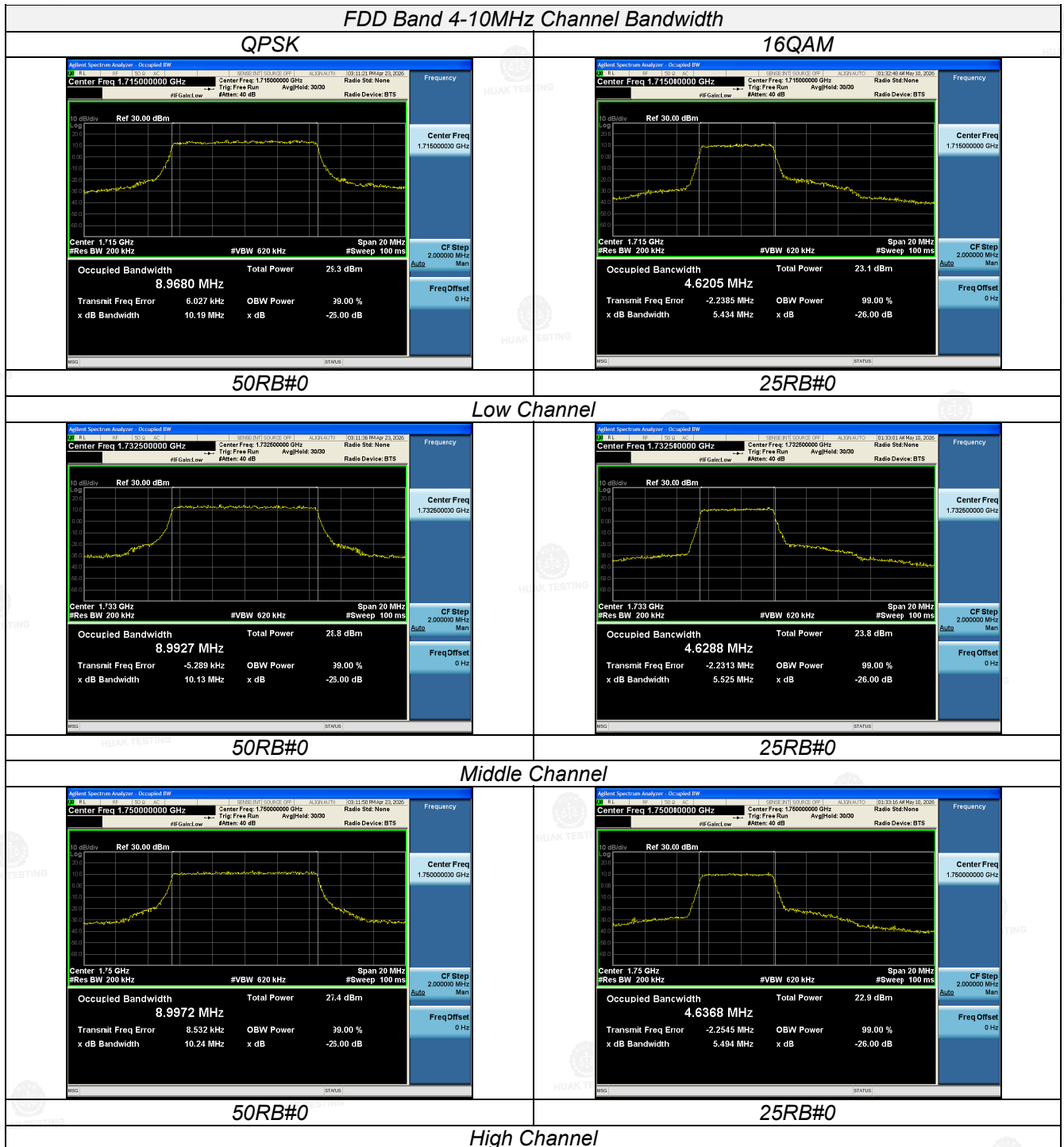




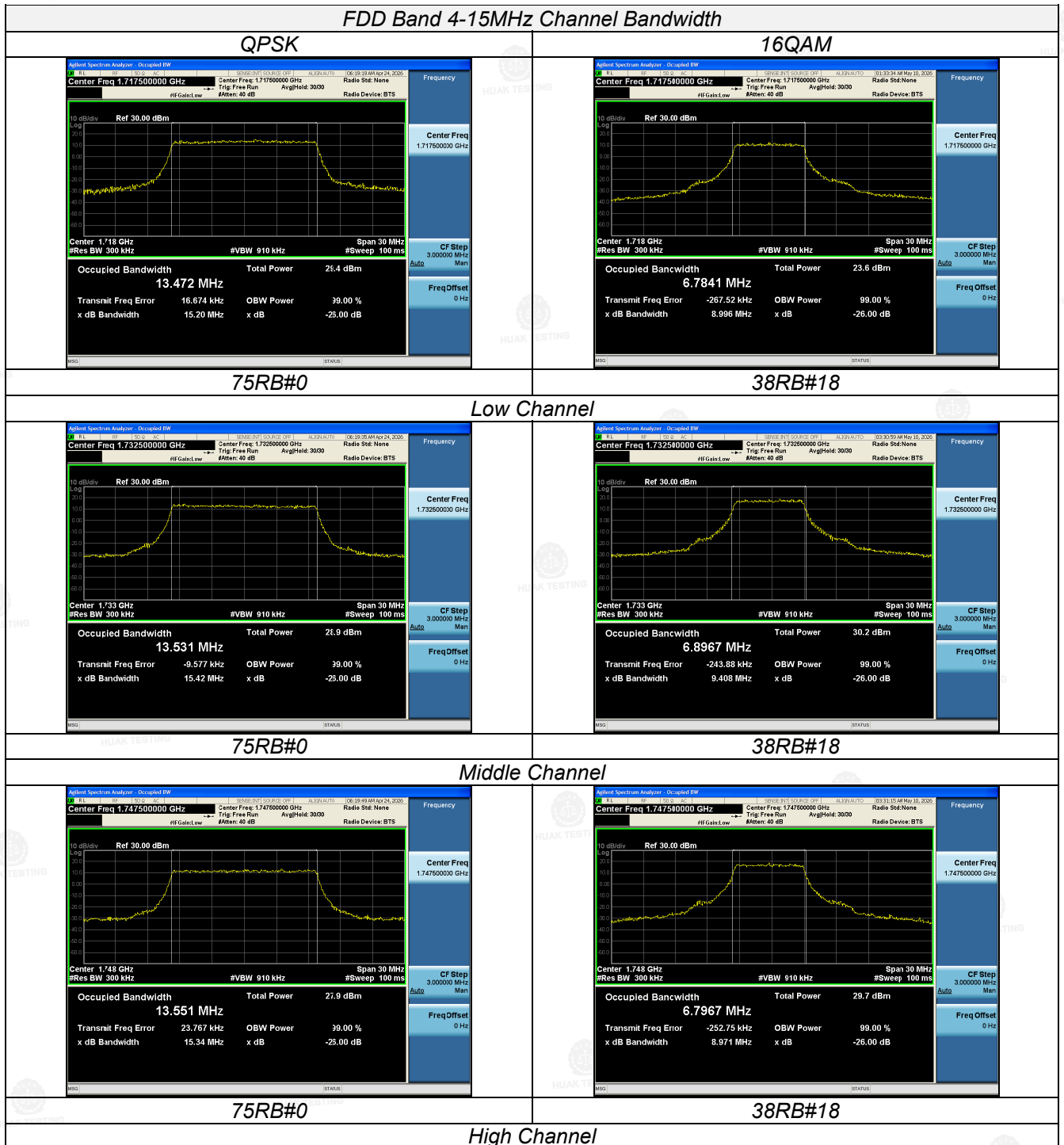
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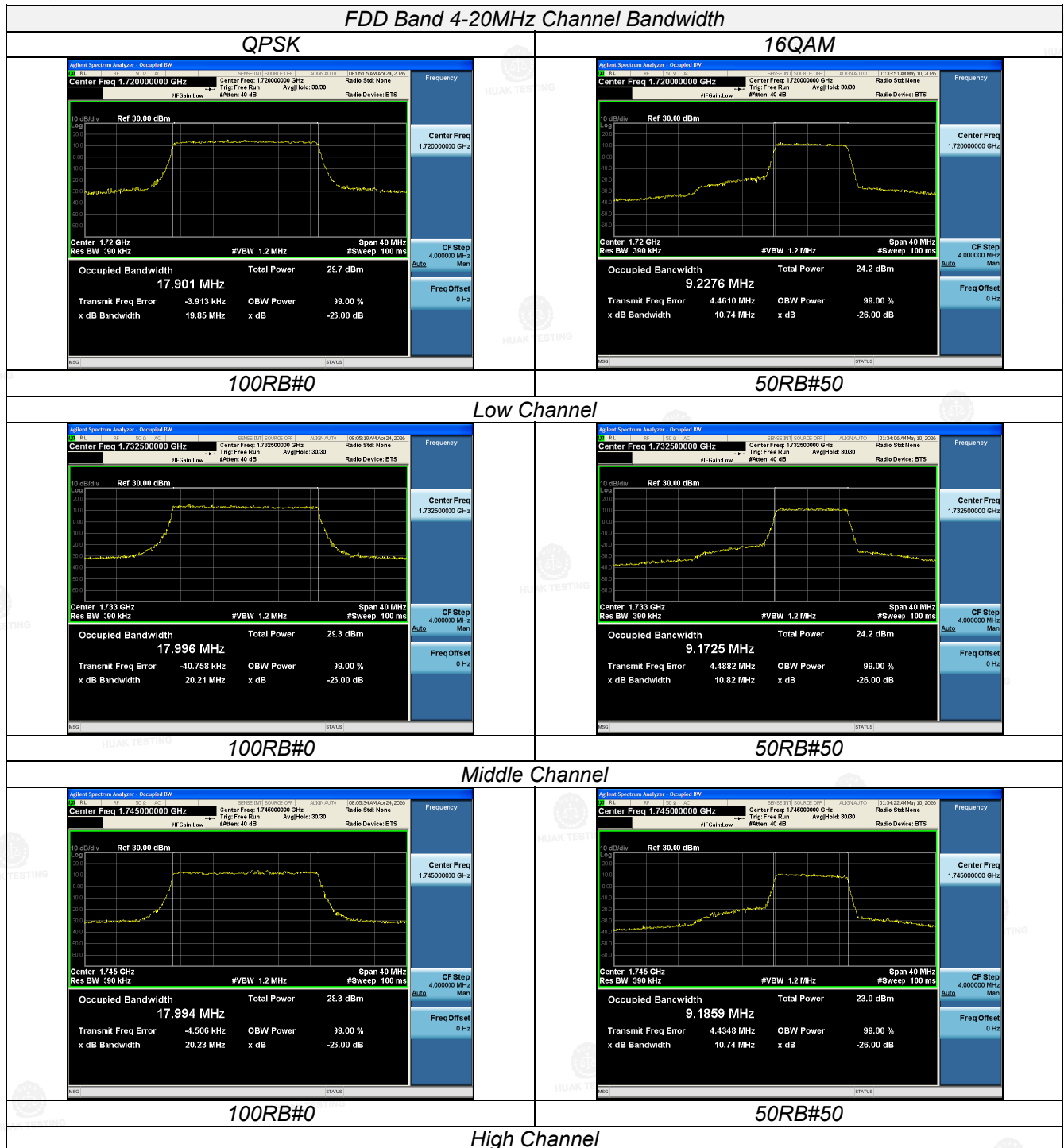


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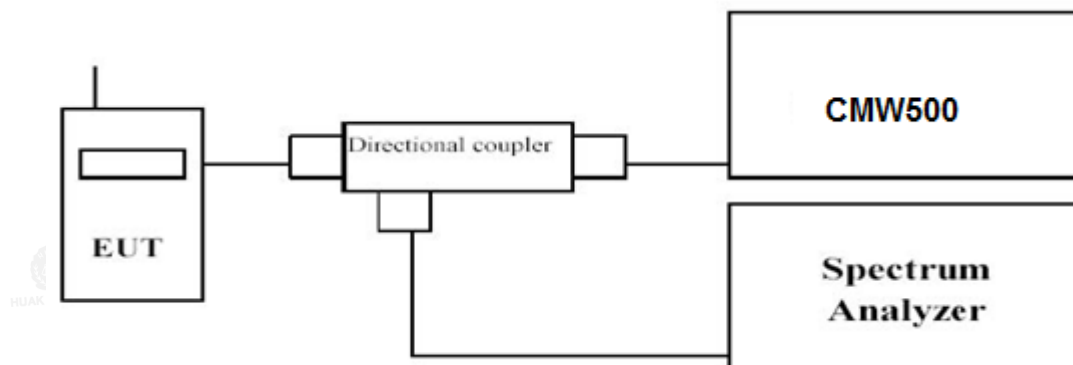


3.4 Band Edge Compliance

LIMIT

According to §27.53 (h): For operations in the 1710–1755 MHz and 2110–2155 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB.

TEST CONFIGURATION



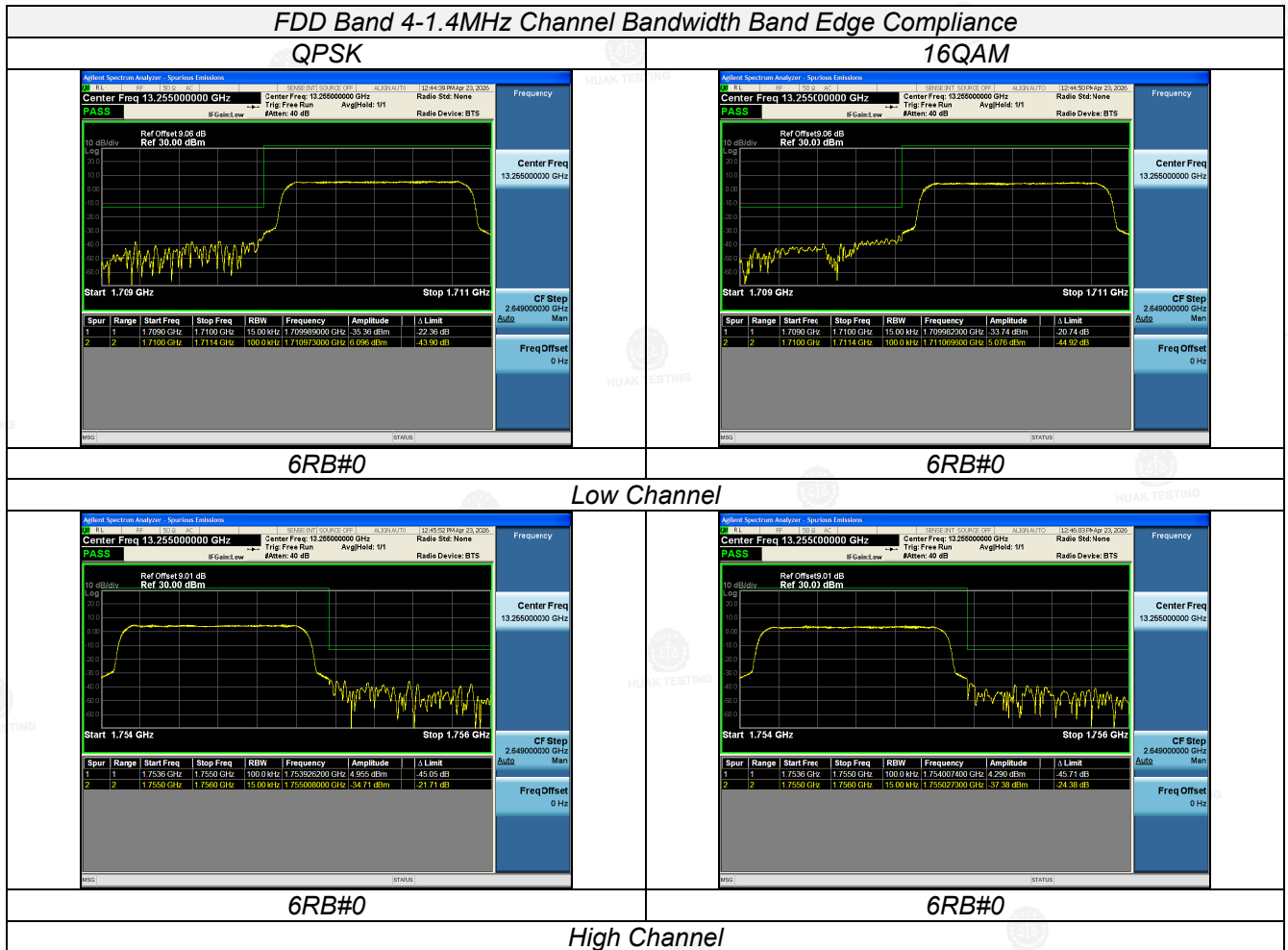
TEST PROCEDURE

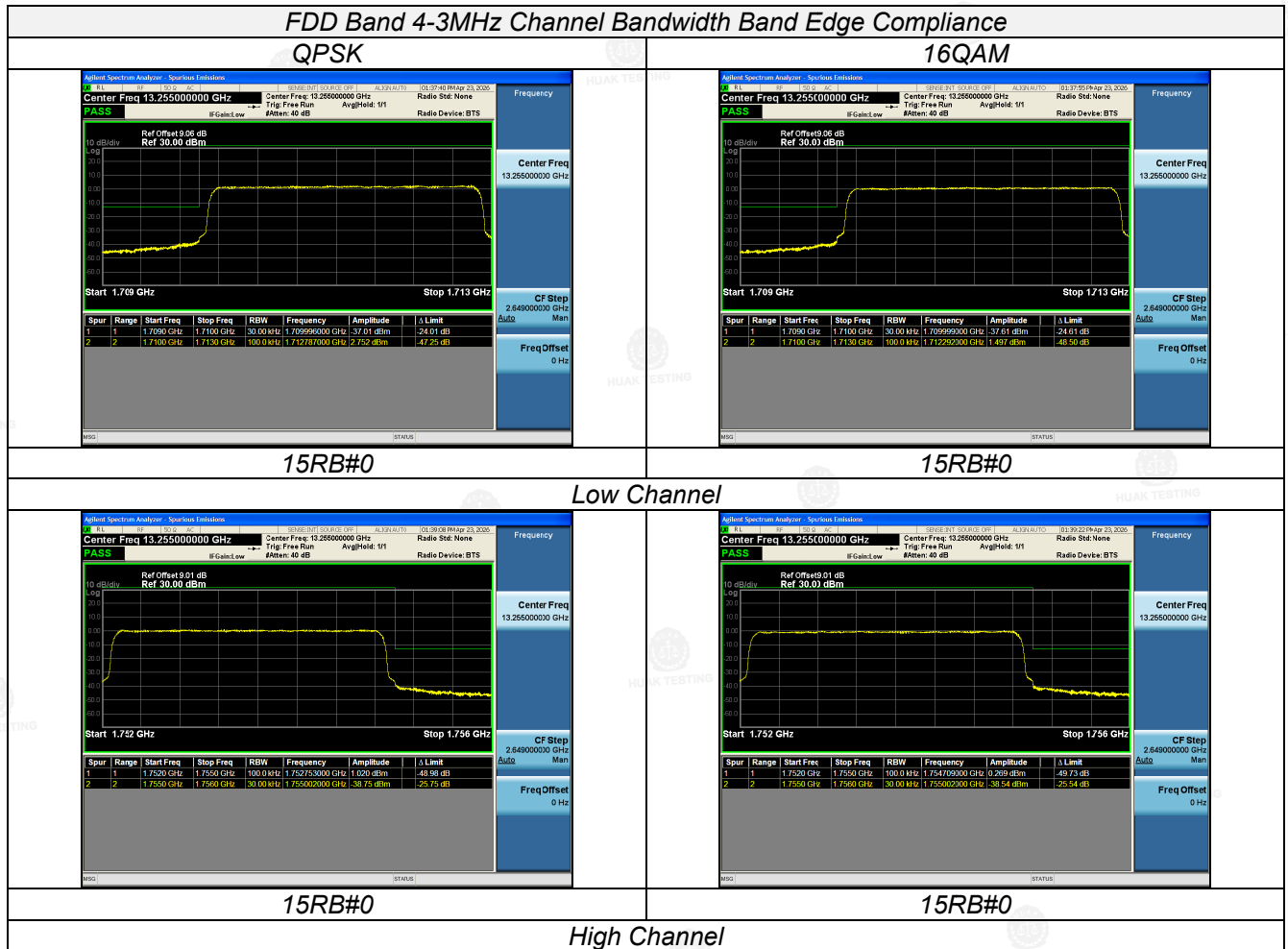
1. The transmitter output port was connected to base station.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator, the path loss was compensated to the results for each measurement.
3. Set EUT at maximum power through base station.
4. Select lowest and highest channels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

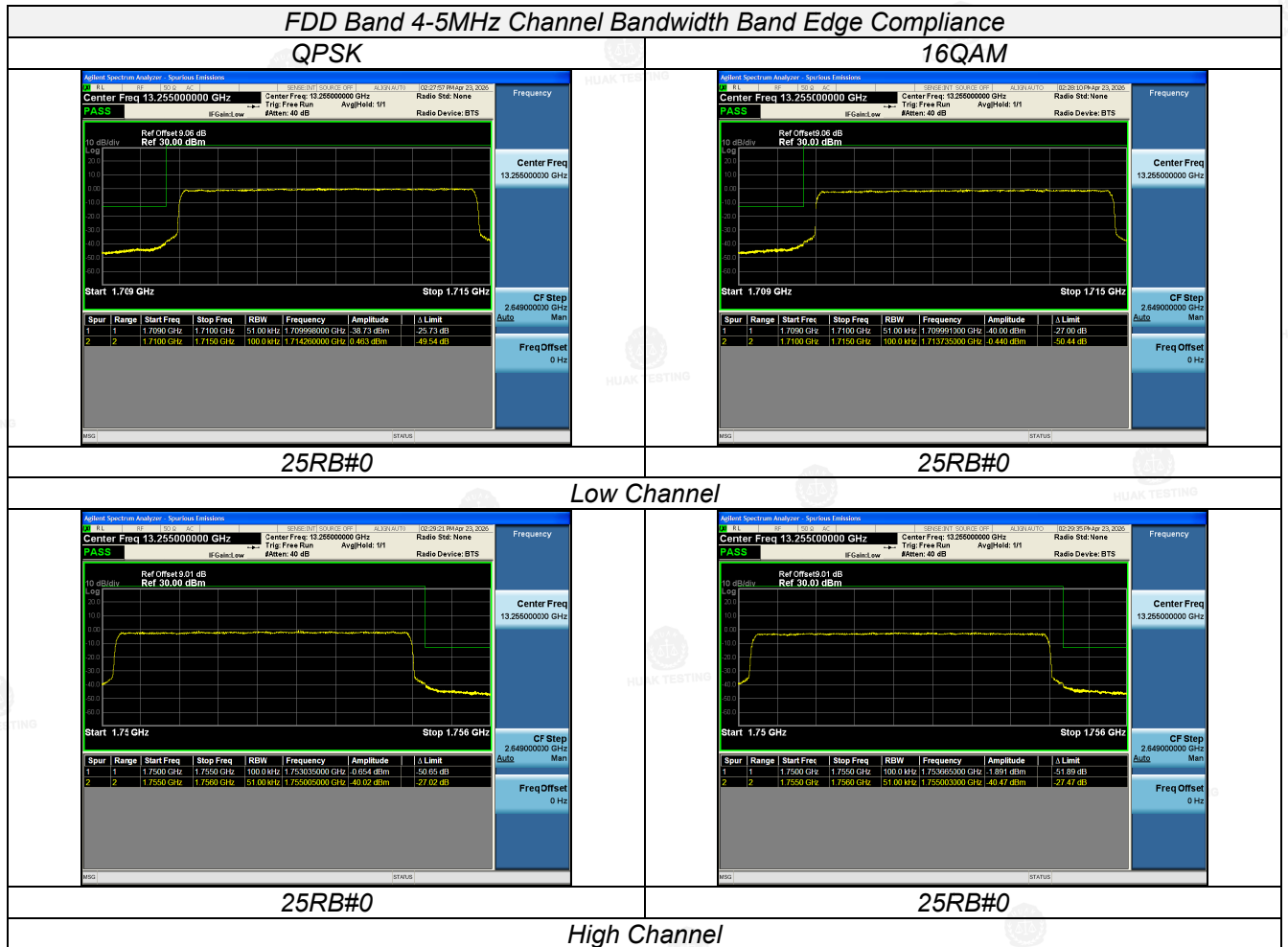
TEST RESULTS

Remark:

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

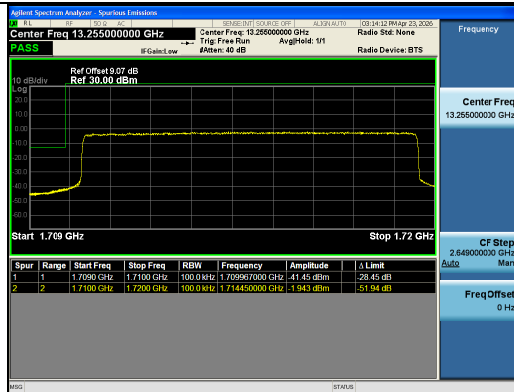




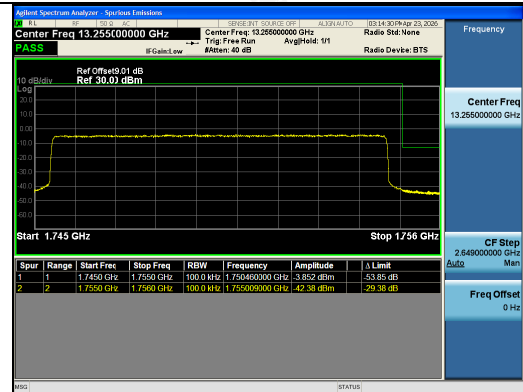


FDD Band 4-10MHz Channel Bandwidth Band Edge Compliance

QPSK



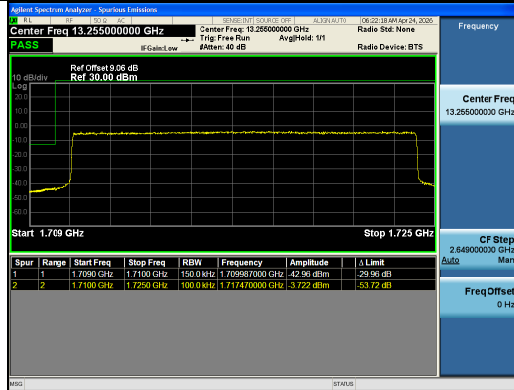
50RB#0
Low Channel



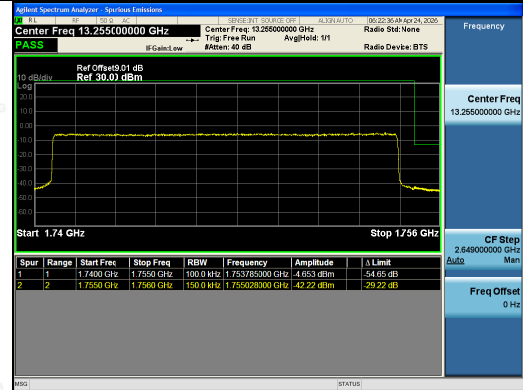
50RB#0
High Channel

FDD Band 4-15MHz Channel Bandwidth Band Edge Compliance

QPSK



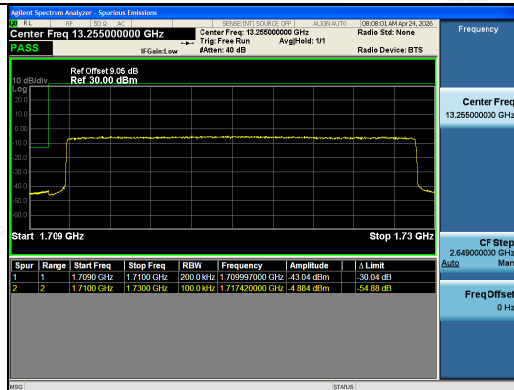
75RB#0
Low Channel



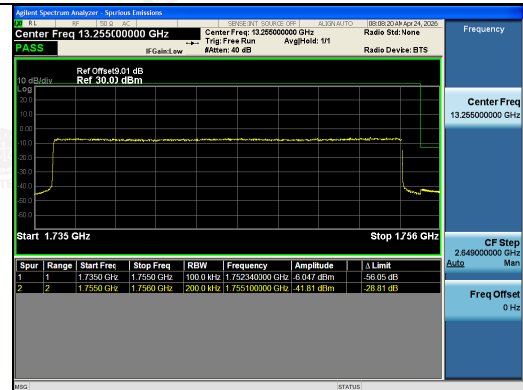
75RB#0
High Channel

FDD Band 4-20MHz Channel Bandwidth Band Edge Compliance

QPSK



100RB#0
Low Channel



100RB#0
High Channel



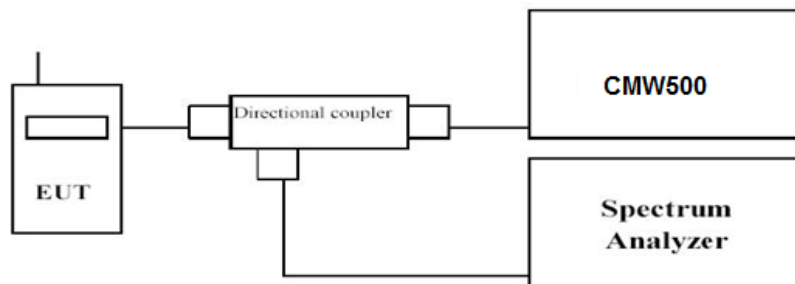
3.5 Spurious Emission

LIMIT

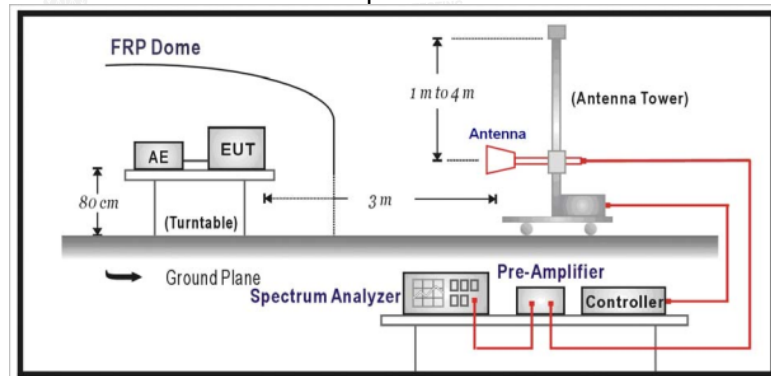
According to §27.53 (h): For operations in the 1710–1755 MHz and 2110–2155 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB.

TEST CONFIGURATION

Conducted Spurious Measurement:



Radiated Spurious Measurement:



TEST PROCEDURE

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

Conducted Spurious 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.
- The resolution bandwidth of the spectrum analyzer was set sufficient scans were taken to show the out of band Emission if any up to 10^{th} harmonic.
- Please refer to following tables for test antenna conducted emissions.

Working Frequency	Sub range (GHz)	RBW	VBW	Sweep time (s)
FDD Band 4	0.000015~0.03	10KHz	30KHz	Auto
	0.03~1	100KHz	300KHz	Auto
	1~20	1 MHz	3 MHz	Auto

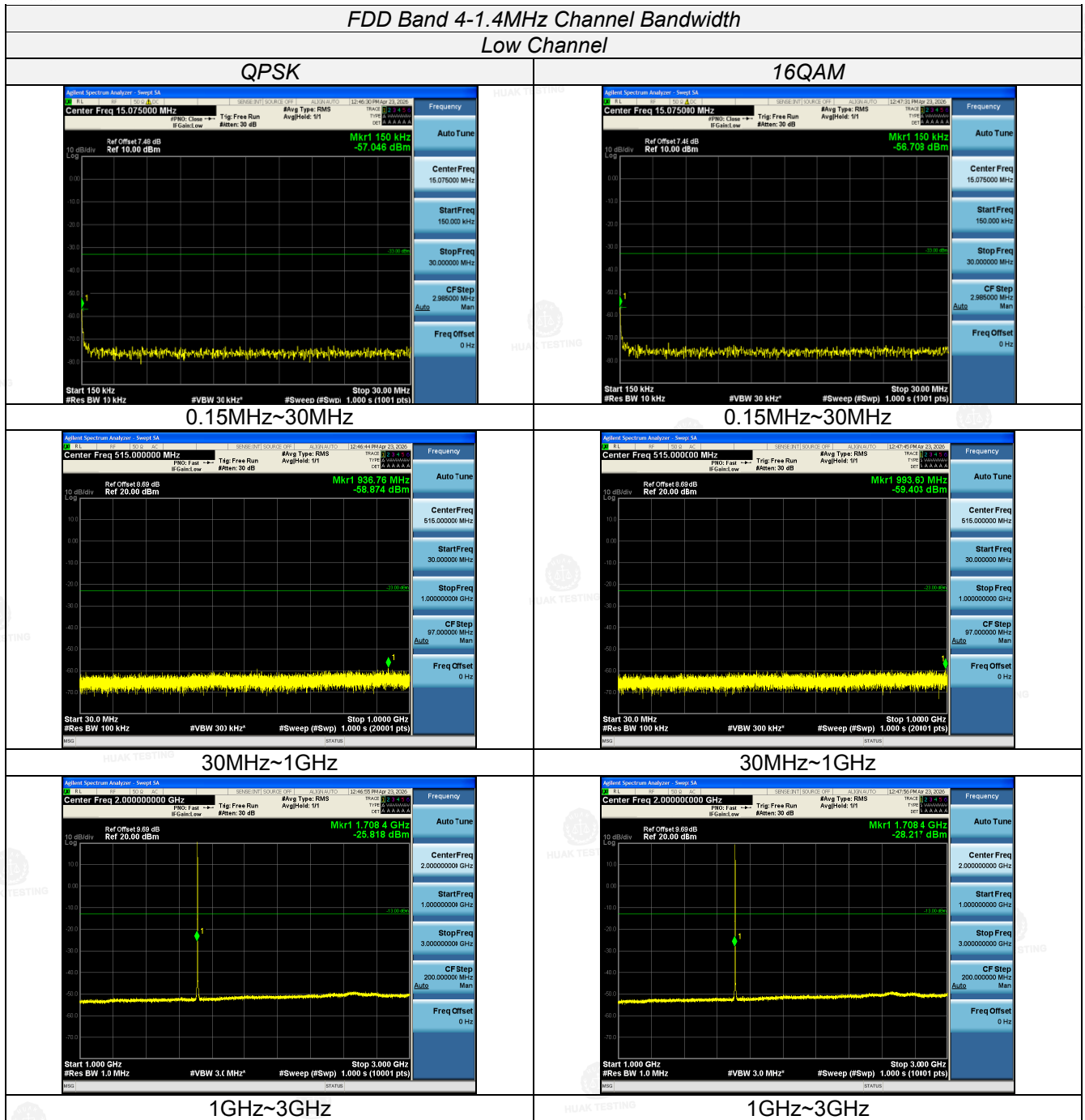
**Radiated Spurious Measurement:**

- a. The EUT shall be placed at the specified height on a support, and in the position closest to normal use as declared by provider.
- b. The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter.
- c. The output of the test antenna shall be connected to the measuring receiver.
- d. 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. The resolution bandwidth of the spectrum analyzer was set at 100 kHz for Part 22 and 1MHz for Part 24. The frequency range was checked up to 10th harmonic.
- r. Test site anechoic chamber refer to ANSI C63.4.

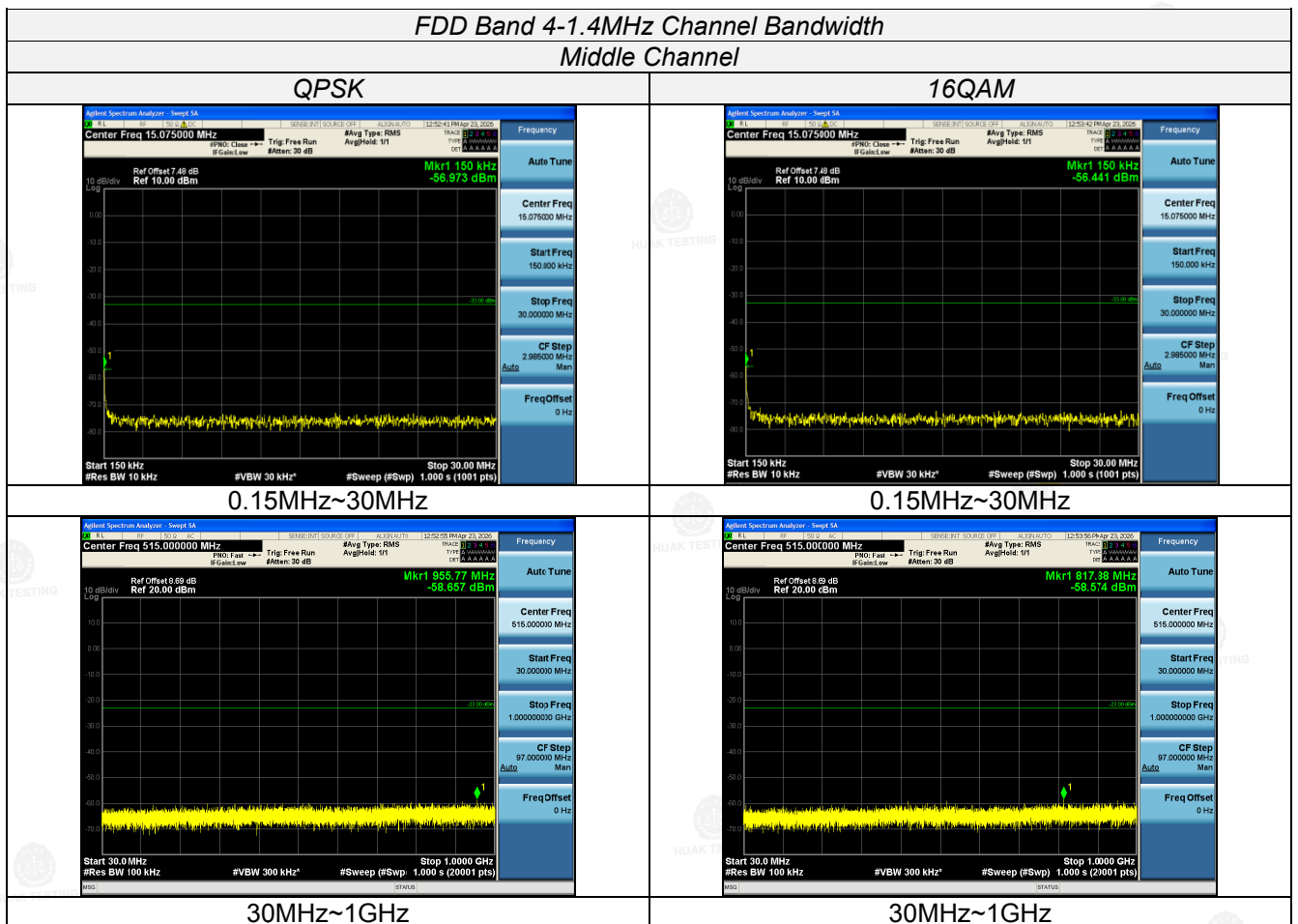
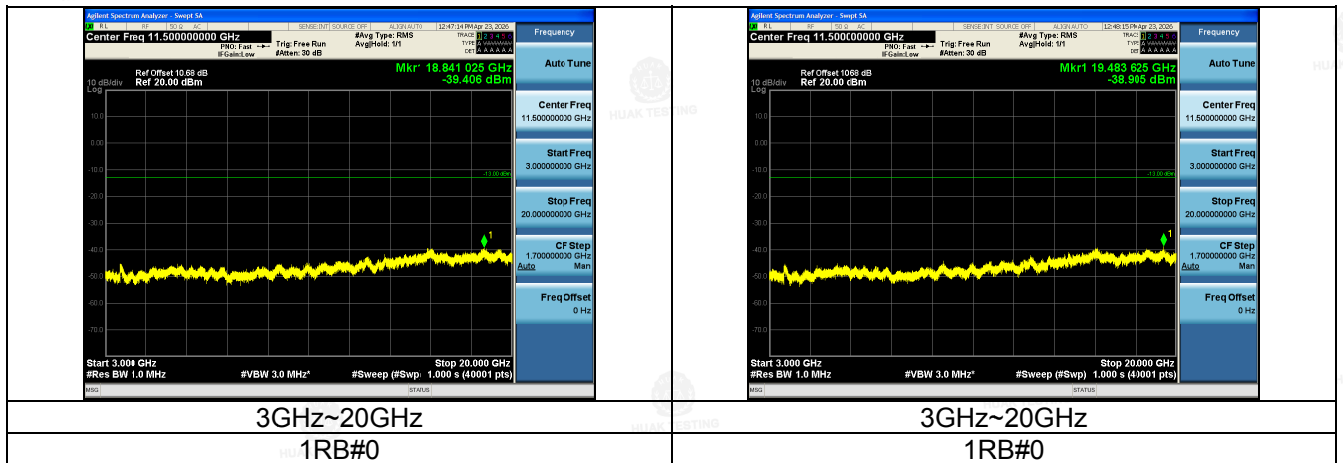
TEST RESULTS**Remark:**

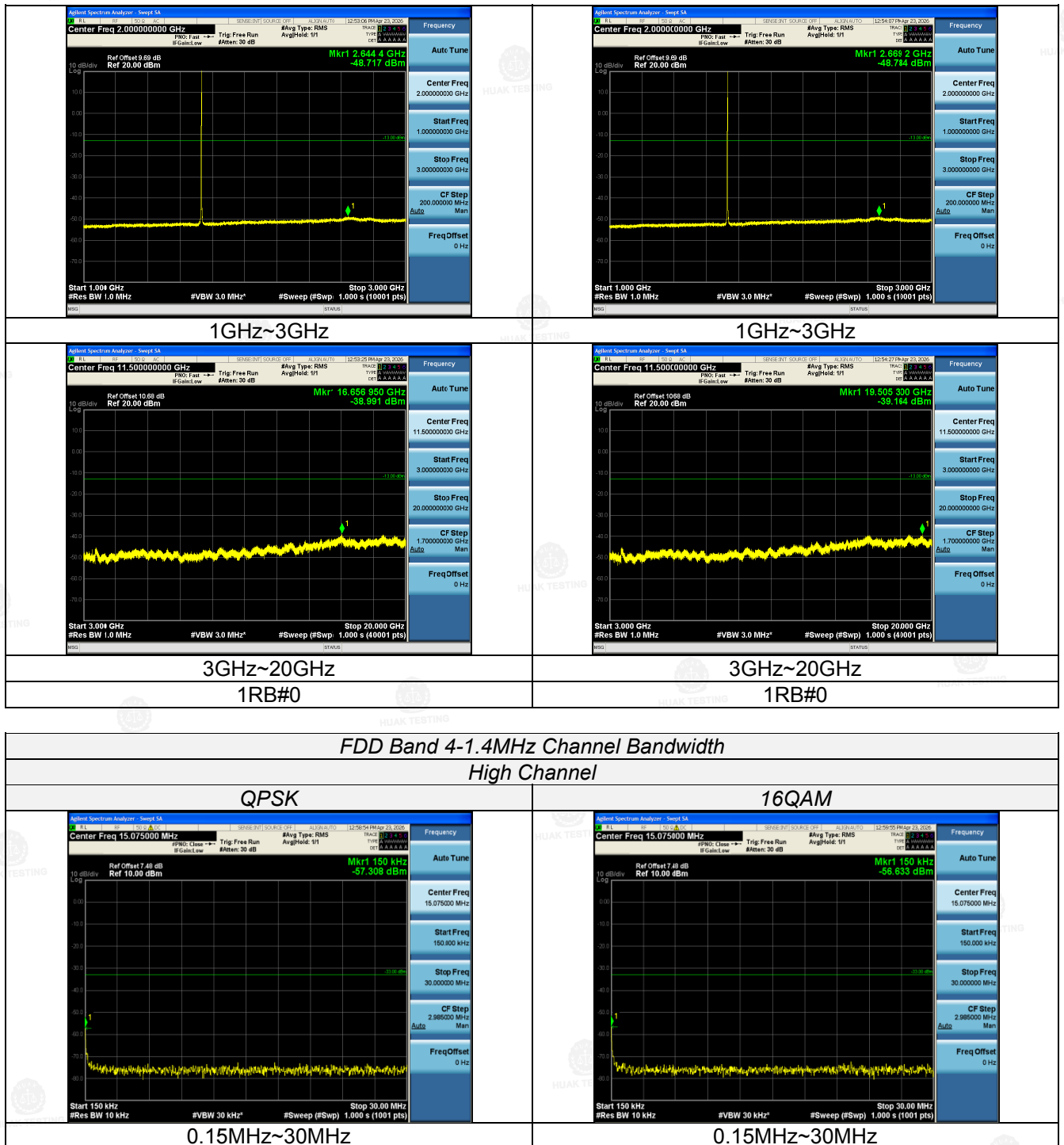
1. *We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of FDD Band 4; recorded worst case for each Channel Bandwidth of FDD Band 4.*

Conducted Measurement:

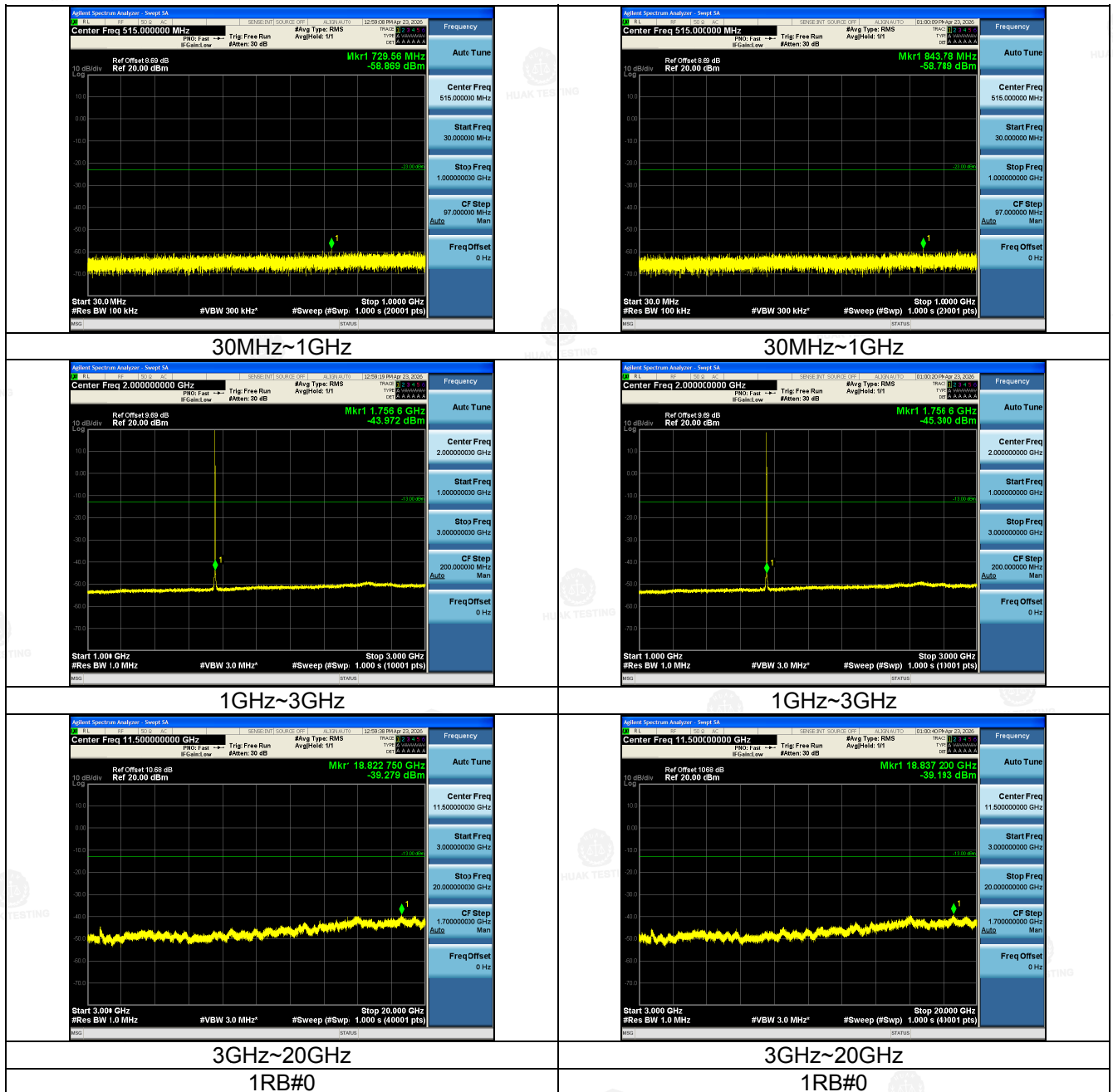


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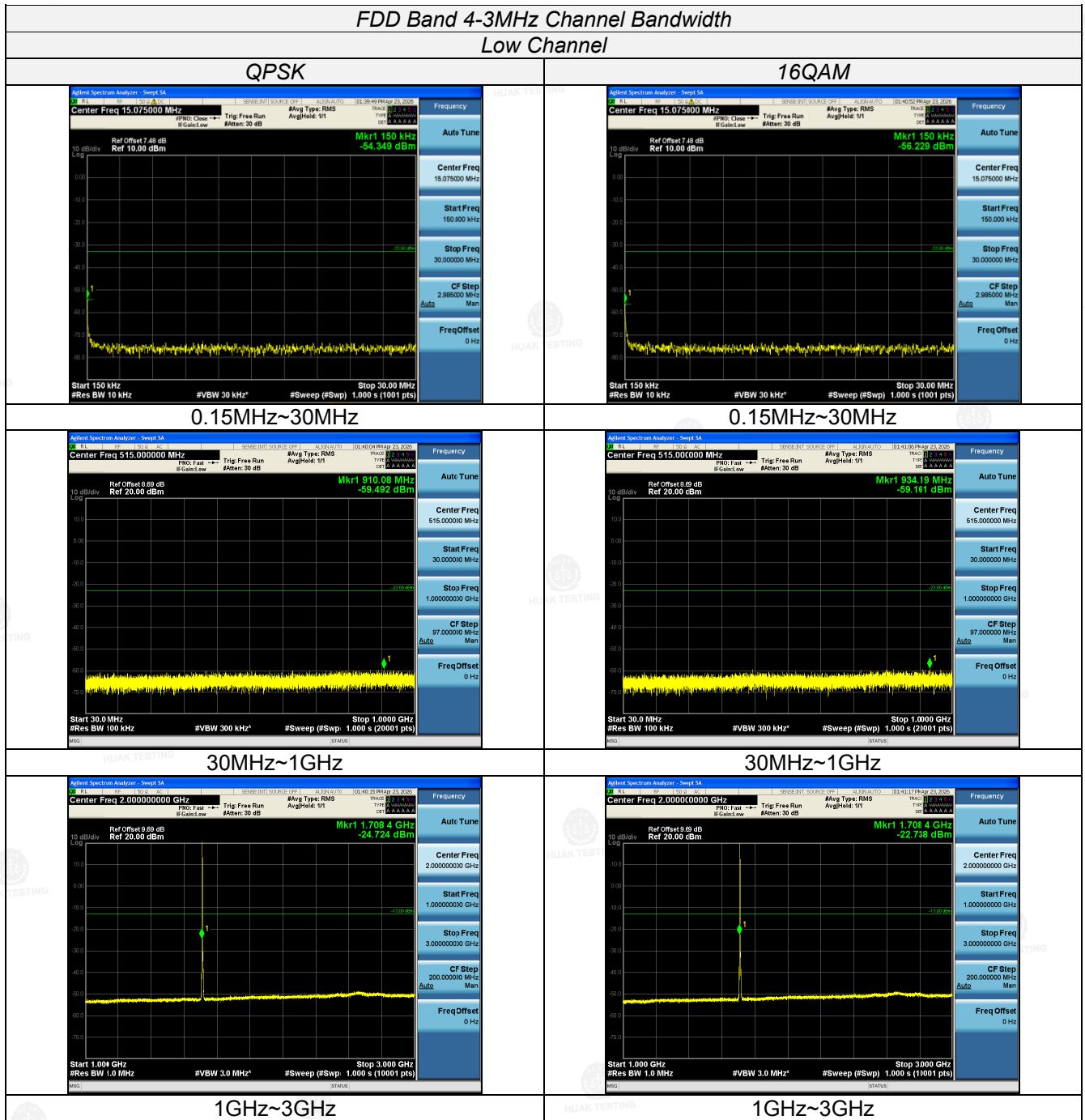


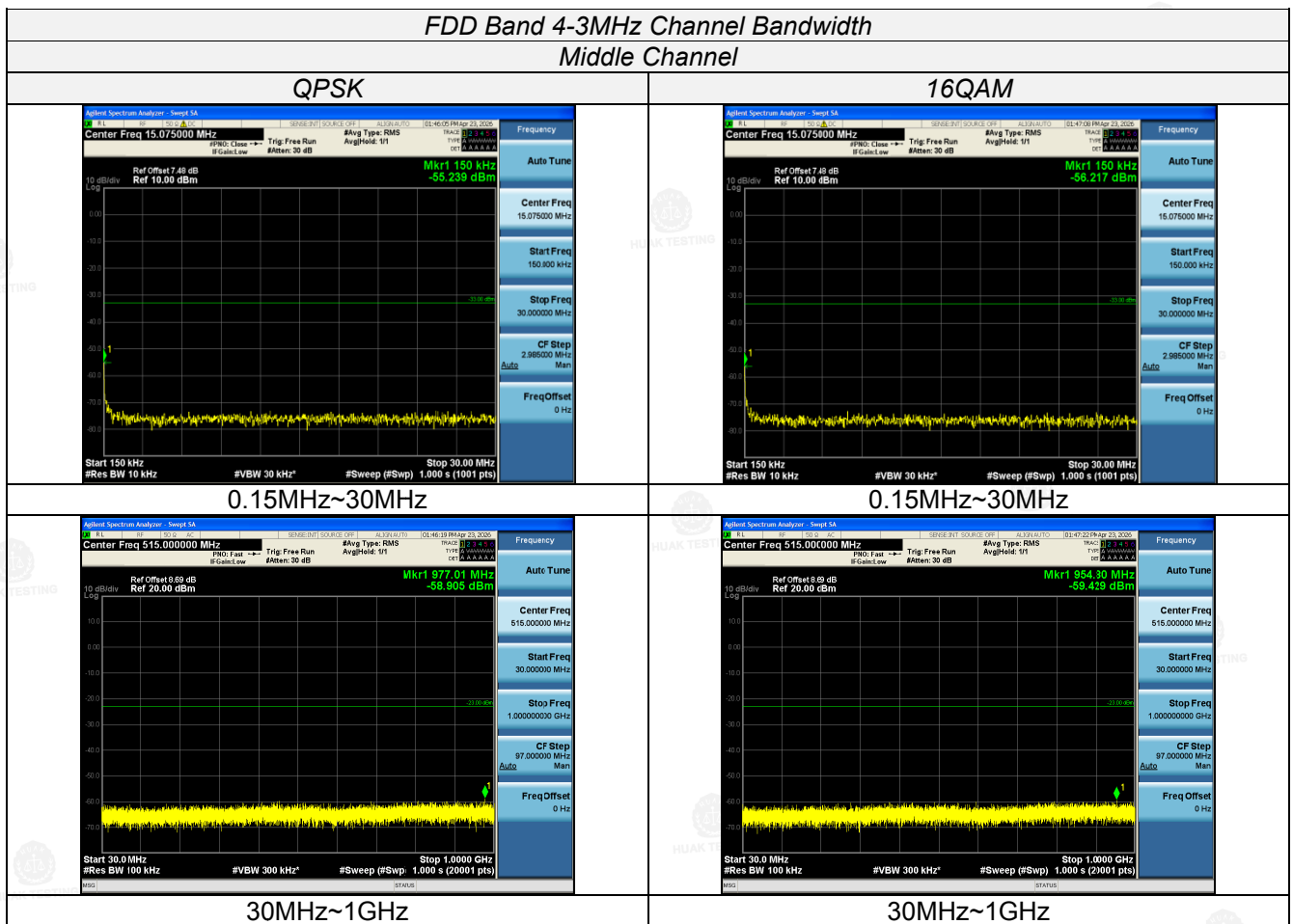
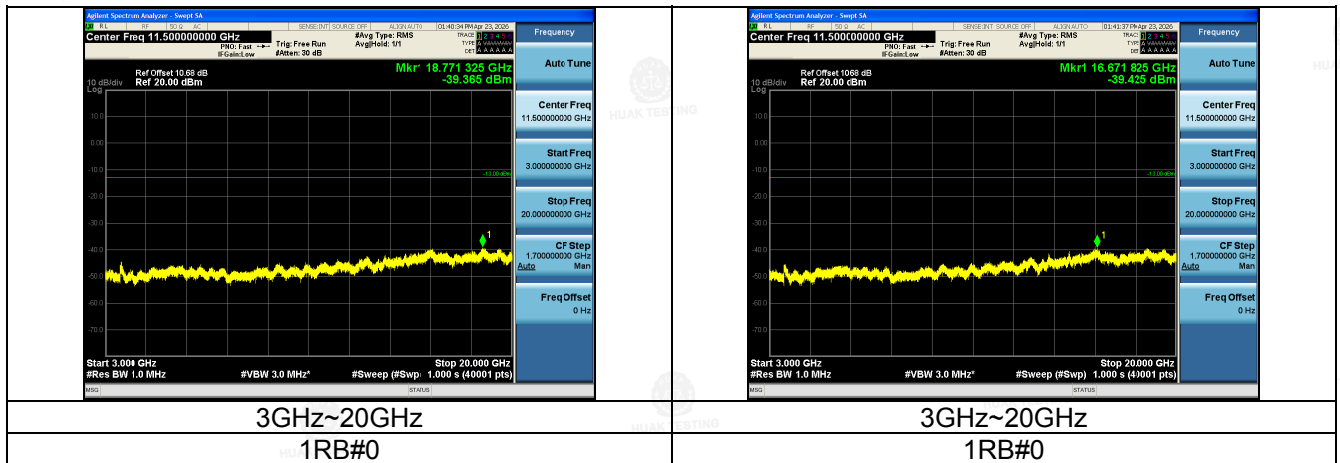


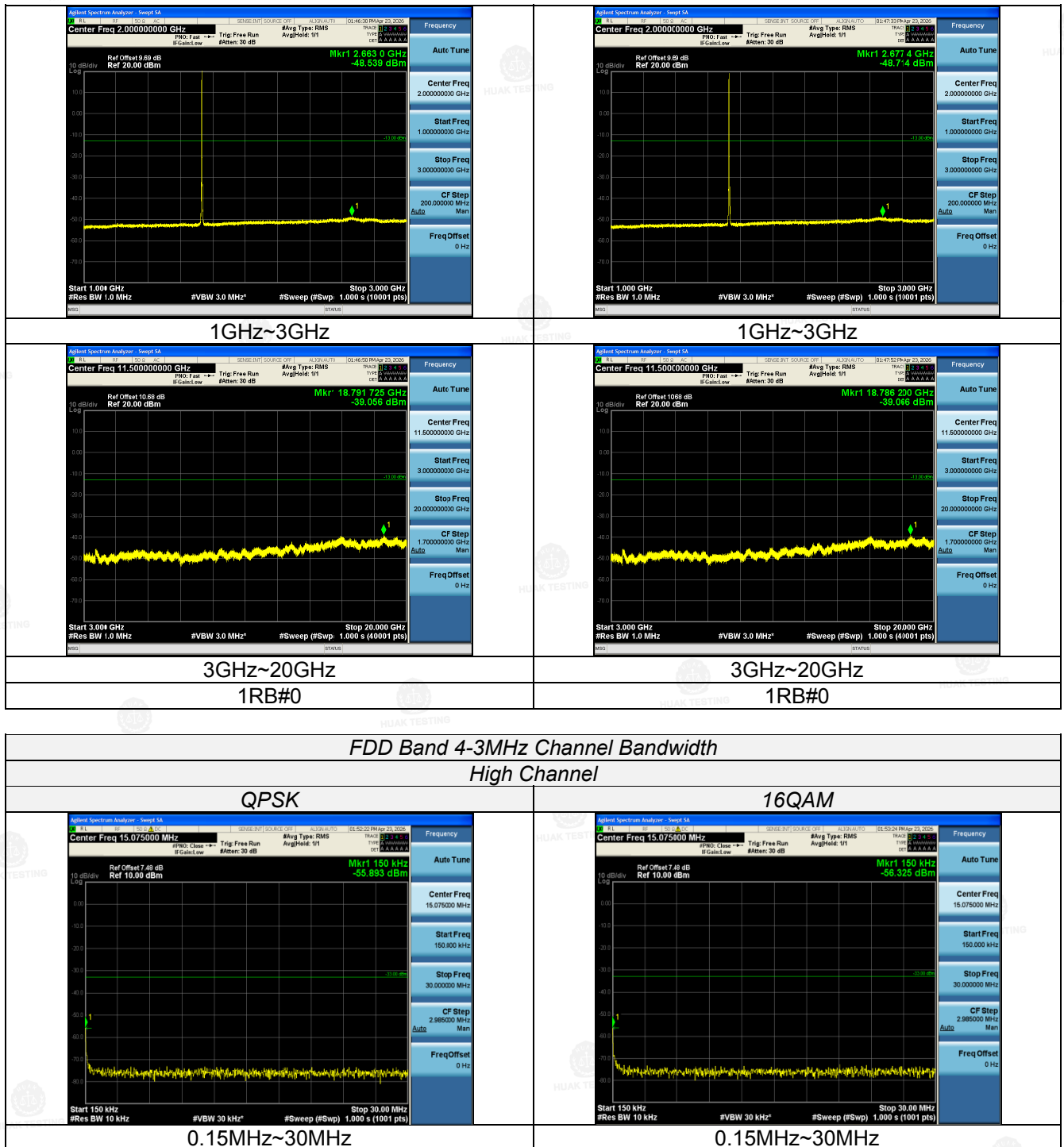
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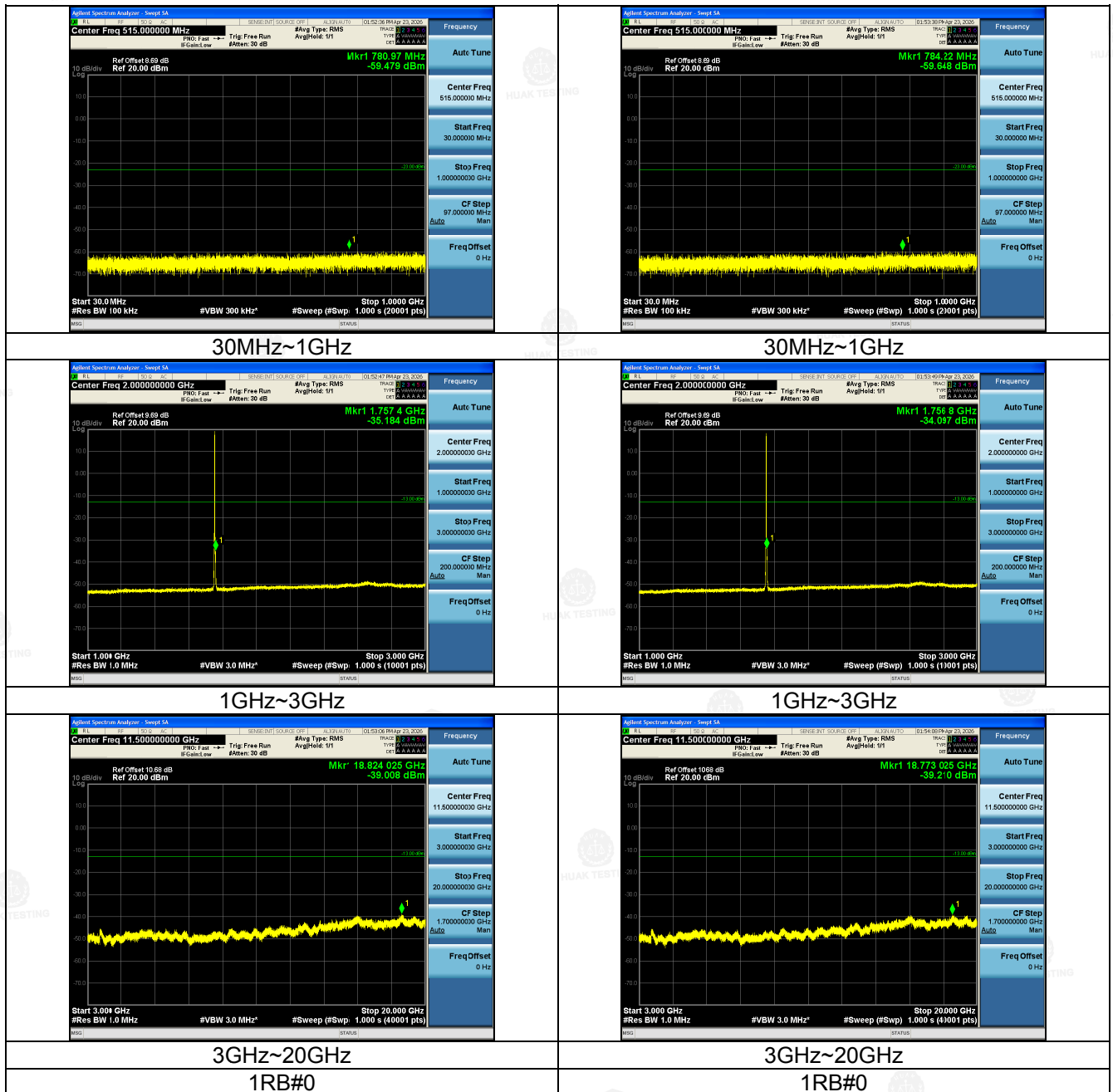
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