

FCC TEST REPORT

(PART 22)

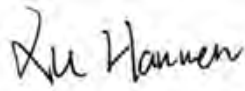
Applicant:	HMD Global Oy
Address:	Bertel Jungin aukio 9 Espoo 02600 Finland

Manufacturer or Supplier:	HMD Global Oy
Address:	Bertel Jungin aukio 9 Espoo 02600 Finland
Product:	Mobile Phone
Brand Name:	HMD
Model Name:	TA-1606
FCC ID:	2AJOTTA-1606
Date of tests:	May. 14, 2024 ~ Jun. 13, 2024

The tests have been carried out according to the requirements of the following standard:

- ☒ **FCC PART 22, Subpart H** ☒ **FCC Part 2**
☒ **ANSI/TIA/EIA-603-D** ☒ **ANSI C63.26-2015**
☒ **ANSI/TIA/EIA-603-E**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Prepared by Hanwen Xu Engineer / Mobile Department	Approved by Peibo Sun Manager / Mobile Department
	
Date: Jun. 13, 2024	Date: Jun. 13, 2024

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
PSU-NQN2405090215RF01	Original release	Jun. 13, 2024

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 22 & Part 2			
STANDARD SECTION	TEST TYPE	RESULT	Test lab*
§2.1046	Coducted Output Power	Compliance	A
§22.913 (a)(5)	Equivalent Isotropic Radiated Power	Compliance	A
§2.1055 §22.355	Frequency Stability	Compliance	A
§2.1049	Occupied Bandwidth	Compliance	A
§22.913 (d)	Peak to average ratio	Compliance	A
§22.917(a)	Band Edge Measurements	Compliance	A
§2.1051 §22.917(a)	Conducted Spurious Emissions	Compliance	A
§2.1053 §22.917(a)	Radiated Spurious Emissions	Compliance	A

*Test Lab Information Reference

Lab A:

Huarui 7Layers High Technology (Suzhou) Co., Ltd.

Lab Address:

Tower N, Innovation Center, 88 Zhuyi Road, High-tech District, Suzhou City, Anhui Province

Accredited Test Lab Cert 6613.01

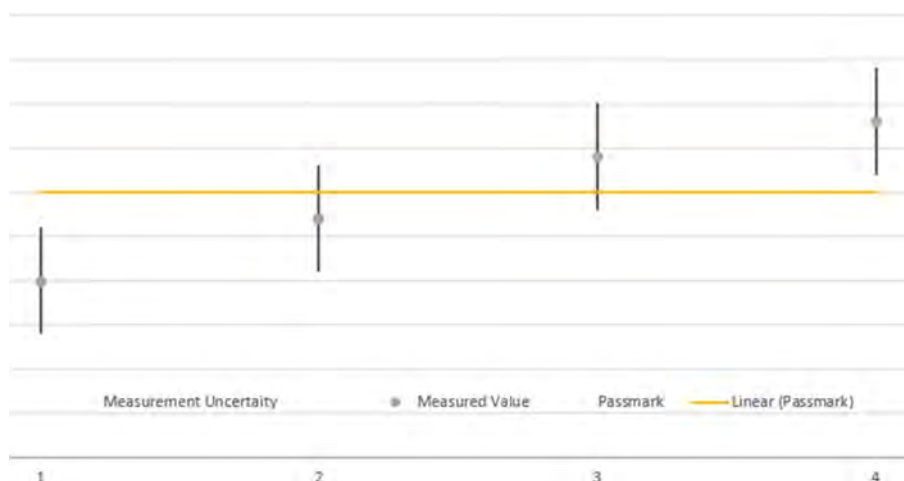
The FCC Site Registration No. is 434559; The Designation No. is CN1325.

1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	UNCERTAINTY
Maximum Peak Output Power	$\pm 2.06\text{dB}$
Frequency Stability	$\pm 76.97\text{Hz}$
Radiated emissions (9KHz~30MHz)	$\pm 2.68\text{dB}$
Radiated emissions (30MHz~1GHz)	$\pm 4.98\text{dB}$
Radiated emissions (1GHz ~6GHz)	$\pm 4.70\text{dB}$
Radiated emissions (6GHz ~18GHz)	$\pm 4.60\text{dB}$
Radiated emissions (18GHz ~40GHz)	$\pm 4.12\text{dB}$
Conducted emissions	$\pm 4.01\text{dB}$
Occupied Channel Bandwidth	$\pm 43.58\text{KHz}$
Band Edge Measurements	$\pm 4.70\text{dB}$
Peak to average ratio	$\pm 0.76\text{dB}$

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.



The verdicts in this test report are given according the above diagram:

Case	Measured Value	Uncertainty Range	Verdict
1	below pass mark	below pass mark	Passed
2	below pass mark	within pass mark	Passed
3	above pass mark	within pass mark	Failed
4	above pass mark	above pass mark	Failed

That means, the laboratory applies, as decision rule (see ISO/IEC 17025:2017), the so-called shared risk principle.

**1.2 TEST SITE AND INSTRUMENTS**

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Pre-Amplifier	R&S	SCU18F1	100815	Aug.30,22	Aug.29,24
Pre-Amplifier	R&S	SCU08F1	101028	Sep.16,22	Sep.15,24
Vector Signal Generator	R&S	SMBV100B	102176	Feb.16,24	Feb.15,26
Signal Generator	R&S	SMB100A	182185	Feb.16,24	Feb.15,26
3m Fully-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ-E MC-01Chamber	Nov.25,22	Nov.24,25
3m Semi-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ-E MC-02Chamber	Nov.25,22	Nov.24,25
EMI TEST Receiver	R&S	ESR26	101734	Feb.25,24	Feb.24,26
EMI TEST Receiver	R&S	ESW44	101973	Feb.25,24	Feb.24,26
Bilog Antenna	SCHWARZBECK	VULB 9163	1264	Feb.28,24	Feb.27,26
Horn Antenna	ETS-LINDGREN	3117	227836	Aug.22,22	Aug.21,24
Horn Antenna (18GHz-40GHz)	Steatite Q-par Antennas	QMS 00880	23486	Feb.23,24	Feb.22,26
Horn Antenna	Steatite Q-par Antennas	QMS 00208	23485	Aug.22,22	Aug.21,24
Loop Antenna	SCHWARZ	HFH2-Z2/Z2E	100976	Feb.23,24	Feb.22,26
WIDEBANDRADIO COMMUNICATION TESTER	R&S	CMW500	169399	Jun.27,22	Jun.26,24
Test Software	EMC32	EMC32	N/A	N/A	N/A
6DB attenuator	Tonscend Technology Co., Ltd	N/A	23062787	N/A	N/A
Test Software	ELEKTRA	ELEKTRA4.32	N/A	N/A	N/A
Open Switch and Control Unit	R&S	OSP220	101964	Oct.01,22	Sep.30,24
DC Source	HYELEC	HY3010B	551016	Aug.31,22	Aug.30,24
Hygrothermograph	DELI	20210528	SZ014	Sep.06,22	Sep.05,24
PC	LENOVO	E14	HRSW0024	N/A	N/A
TMC-AMI18843A(CABLE)	R&S	HF290-NMNM-7.00M	N/A	N/A	N/A
TMC-AMI18843A(CABLE)	R&S	HF290-NMNM-4.00M	N/A	N/A	N/A
CABLE	R&S	W13.02	N/A	Apr.26,24	Apr.25,25
CABLE	R&S	W12.14	N/A	Apr.26,24	Apr.25,25
CABLE	R&S	J12J103539-00-1	SEP-03-20-069	Apr.26,24	Apr.25,25
CABLE	R&S	J12J103539-00-1	SEP-03-20-070	Apr.26,24	Apr.25,25
Temperature Chamber	votsch	VT4002	58566078100050	May.31,22	May.30,24
Temperature Chamber	votsch	VT4002	58566078100050	May.30,24	May.29,26



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NOTE:

1. The calibration interval of the above test instruments is 12 months or 24 months or 36 months and the calibrations are traceable to CEPREI/CHINA, GREGT/CHINA and NIM/CHINA.
2. The test was performed in 3m Semi-anechoic Chamber and RF Oven Room.
3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Site Registration No. is 434559; The Designation No. is CN1325.

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT*	Mobile Phone	
BRAND NAME*	HMD	
MODEL NAME*	TA-1606	
NOMINAL VOLTAGE*	5.0 or 9.0 or 12.0 Vdc (adapter) 3.87Vdc (battery)	
MODULATION TYPE*	GSM/EDGE	GMSK, 8PSK
	WCDMA	HSDPA/HSUPA/DC-HSDPA/ HSUPA+
	LTE	QPSK, 16QAM, 64QAM
FREQUENCY RANGE	GSM/EDGE	824.2MHz ~ 848.8MHz
	WCDMA	826.4MHz ~ 846.6MHz
	LTE Band 5 (Channel Bandwidth: 1.4MHz)	824.7MHz ~ 848.3MHz
	LTE Band 5 (Channel Bandwidth: 3MHz)	825.5MHz ~ 847.5MHz
	LTE Band 5 (Channel Bandwidth: 5MHz)	826.5MHz ~ 846.5MHz
	LTE Band 5 (Channel Bandwidth: 10MHz)	829MHz ~ 844MHz
MAX. ERP POWER	GSM	486.41mW
	EDGE	99.77mW
	WCDMA	57.41mW
	LTE Band 5 (Channel Bandwidth: 1.4MHz)	70.63mW
	LTE Band 5 (Channel Bandwidth: 3MHz)	70.47mW
	LTE Band 5 (Channel Bandwidth: 5MHz)	69.98mW
	LTE Band 5 (Channel Bandwidth: 10MHz)	71.78mW



EMISSION DESIGNATOR GOGN	GSM	248KGXW
	EDGE	250KG7W
	WCDMA	4M15F9W
	LTE Band 5 (Channel Bandwidth: 1.4MHz)	QPSK: 1M10G7D
		16QAM: 1M10W7D
	LTE Band 5 (Channel Bandwidth: 3MHz)	QPSK: 2M70G7D
		16QAM: 2M71W7D
	LTE Band 5 (Channel Bandwidth: 5MHz)	QPSK: 4M53G7D
		16QAM: 4M51W7D
	LTE Band 5 (Channel Bandwidth: 10MHz)	QPSK: 9M04G7D
		16QAM: 9M01W7D
ANTENNA TYPE*	PIFA Antenna with -3.3 dBi gain for GSM850/WCDMA V/LTE B5	
HW VERSION*	V00	
SW VERSION*	V0.019_A01	
I/O PORTS*	Refer to user's manual	
CABLE SUPPLIED*	USB cable1: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable2: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable3: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable4: non-shielded cable, with w/o ferrite core, 1.0 meter	
EXTREME TEMPERATURE*	-10 ~ 55 °C	
EXTREME VOLTAGE*	3.6V ~ 4.45V	

NOTE:

- *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, Test Lab is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.
- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- The EUT incorporates a SISO function. Physically, the EUT provides one completed transmitter and one receiver.

MODULATION MODE	TX FUNCTION
GSM/GPRS/EDGE	1TX/1RX
WCDMA	1TX/1RX
LTE	1TX/1RX

- For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.



5. For the product of TA-1606 (FCC ID: 2AJOTTA-1606), the following components are different between the first and second supply, other parameters are the same.

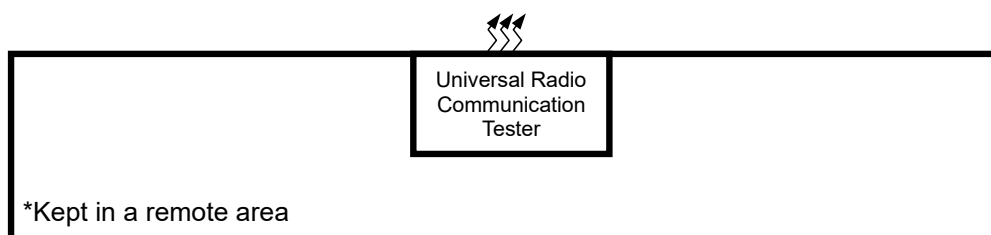
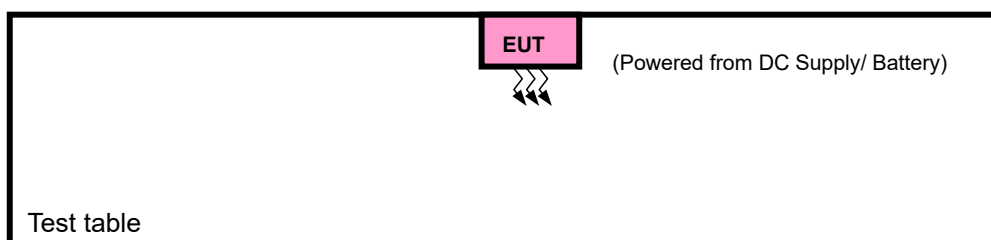
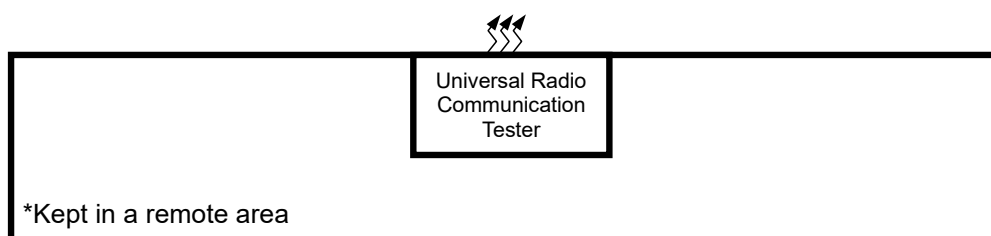
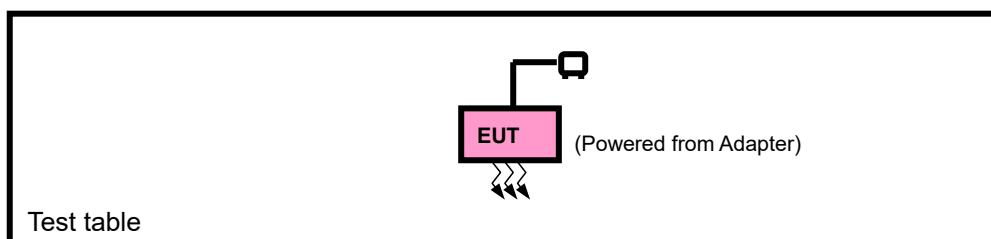
Key Component List						
No.	Component	Description	First supply		Second supply	
			SUPPLIER	Spec	SUPPLIER	Spec
1	NMOS	PCBA	PRISEMI	PNM3FD20V2	JSCJ	CJBA3134K
2	E-compass		MEMSIC	MMC5603NJ	QST	QMC6308-TR
3	Memory-256GB		FORESEE	FEUDNN256G-C2G07	BIWIN	BWU2ASV46A256G
4	Memory-64GB		FORESEE	FLXC4008G-30	BIWIN	BWMZCX32H2A-64G-X
5	nano-SIM		LCN	CAF99-06033-0305	HRD	S186-1B01F13F
6	T-card		LCN	CAF11-08136-031901	HRD	S186-1B02F13F
7	iron covering		LCN	CAF00-21134-032307	HRD	S186-2B21F13F-1
8	Type C connector		LETCON	15-16815-110	LCN	UAF05-16323-3007
9	headphone socket		LETCON	11-058126A	HRD	PH157-0B12F36M
10	G sensor		slan	2*2 12bit	sensortek	2*2 12bit
11	Proximity light sensor		Liteon	LTR-569ALS-02	sensortek	STK3335-X
12	Backlight driver		AWINIC	dfn2*2-6L	broadchip	dfn2*2-6L
13	Flash driver		AWINIC	2A DCDC	OCS	2A DCDC
14	CKDID baschip		AWINIC	±5V	OCS	±5V
15	overvoltage protection chip		broadchip	6.8V FCQFN12	AWINIC	6.8V FCQFN12
16	CKD BDS/GPS/GAL LNA		SILICONWAVE	LNA 1.5*1.0 6pin	AWINIC	LNA 1.5*1.0 6pin
17	MIC		GETTOP	2.75*1.85*0.9mm	YUTAI	2.75*1.85*0.9mm
18	LCM	LCD	HUAXIAN	incell5.56HD+	DZX	incell5.56HD+
19	Macro cam	camera	CXT	2M CSP	lianhe	2M CSP
20	Finger print	module	SYX	side fingerprint	SHENAO	side fingerprint
21	Battery		GAOYUAN	Rated: 4900mAh Typical: 5000mAh	FENGHUA	Rated: 4900mAh Typical: 5000mAh
22	Receiver		SENNOR	'0809	TUNESS	'0809
23	Vibrator		JX	0830 3.35mm	JD	0830 3.35mm
24	Charger US		BJD	5V 2A	JUWEI	5V 2A
25	Data cable		JUWEI	A-C	FKY	A-C
			JUWEI	C-C	FKY	C-C

List of Accessory:

ACCESSORIES	BRAND	MANUFACTURER	MODEL	SPECIFICATION
Battery 1	HMD	Gaoyuan	HBA5020AA	Power Rating: 3.87 Vdc;18.963 Wh;4900 mAh
Battery 2	HMD	Fenghua	HBA5020AA	Power Rating: 3.87 Vdc;18.963 Wh;4900 mAh
AC Adapter 1	HMD	Shenzhen Baijunda Electronics Co.,Ltd	HAD-020U(US-P D 20W)	I/P: 100-240 V,50~60Hz,0.6A O/P: USB-C Output:5.0V 3.0A or 9.0V 2.22A or 12.0V 1.67A 20.0W Max
AC Adapter 2	HMD	Shenzhen Baijunda Electronics Co.,Ltd	HAD-010U(US)	I/P: 100-240 V,50~60Hz,0.35A O/P: 5V 2A,10W
AC Adapter 3	HMD	Huizhou Juwei Electronics Co., Ltd.	HAD-010U(US)	I/P: 100-240 V,50~60Hz,0.35A O/P: 5V 2A,10W
Earphone	HMD	N/A	JWEP1266-H24H	N/A
USB Cable 1	HMD	JUWEI	JWUB1684-M01H	A to C
USB Cable 2	HMD	JUWEI	JWUB1688-M01H	C to C
USB Cable 3	HMD	FUKANGYUAN	FKY-23-368	A to C
USB Cable 4	HMD	FUKANGYUAN	FKY-23-369	C to C

6. The worst-case scenario for all measurements is based on an engineering evaluation made on different modulations. Then, QPSK and 16QAM were observed as the worst mode to LTE bands respectively and set for all conducted and radiated. Output power measurements were measured on QPSK, 16QAM, 64QAM modulations, and tests other than output power are performed only in worse-case QPSK and 16QAM modulations.

2.2 CONFIGURATION OF SYSTEM UNDER TEST FOR RADIATION EMISSION



2.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	DC Source	HYELEC	HY3010B	551016	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	DC Line: Unshielded, Detachable 1.0m

2.4 TEST ITEM AND TEST CONFIGURATION

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case in ERP and radiated emission was found when positioned on X-plane for GSM /EDGE /LTE. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	DESCRIPTION
A	EUT + Adapter with GSM or WCDMA or LTE link
B	EUT + DC Supply with GSM or WCDMA or LTE link

GSM MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
A	ERP	128 to 251	128, 189, 251	GSM,EDGE
B	FREQUENCY STABILITY	128 to 251	128, 189, 251	GSM,EDGE
A	OCCUPIED BANDWIDTH	128 to 251	128, 189, 251	GSM,EDGE
A	BAND EDGE	128 to 251	128, 251	GSM,EDGE
A	CONDCUETED EMISSION	128 to 251	128, 189, 251	GSM,EDGE
A	RADIATED EMISSION	128 to 251	128, 189, 251	GSM,EDGE
A	PEAK TO AVERAGE RATIO	128 to 251	128, 189, 251	GSM,EDGE

WCDMA MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
A	ERP	4132 to 4233	4132, 4182, 4233	WCDMA
B	FREQUENCY STABILITY	4132 to 4233	4132, 4182, 4233	WCDMA
A	OCCUPIED BANDWIDTH	4132 to 4233	4132, 4182, 4233	WCDMA
A	BAND EDGE	4132 to 4233	4132, 4233	WCDMA
A	CONDCUETED EMISSION	4132 to 4233	4132, 4182, 4233	WCDMA
A	RADIATED EMISSION	4132 to 4233	4132, 4182, 4233	WCDMA
A	PEAK TO AVERAGE RATIO	4132 to 4233	4132, 4182, 4233	WCDMA

LTE BAND 5 MODE

EUT CONFIGURE MODE	TEST ITEM	Available Channel	Tested Channel	Channel bandwidth	modulation	mode
A	ERP	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		20415 to 20635	20415, 20525, 20635	3MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		20425 to 20625	20425, 20525, 20625	5MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		20450 to 20600	20450, 20525, 20600	10MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
B	FREQUENCY STABILITY	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK,16QAM	6 RB / 0 RB Offset
		20415 to 20635	20415, 20525, 20635	3MHz	QPSK,16QAM	15 RB / 0 RB Offset
		20425 to 20625	20425, 20525, 20625	5MHz	QPSK,16QAM	25 RB / 0 RB Offset
		20450 to 20600	20450, 20525, 20600	10MHz	QPSK,16QAM	50 RB / 0 RB Offset



A	OCCUPIED BANDWIDTH	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK, 16QAM	6 RB / 0 RB Offset
		20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	15 RB / 0 RB Offset
		20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	25 RB / 0 RB Offset
		20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	50 RB / 0 RB Offset
A	PEAK TO AVERAGE RATIO	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK, 16QAM	1 RB / 0 RB Offset 6 RB / 0 RB Offset
		20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	1 RB / 0 RB Offset 15 RB / 0 RB Offset
		20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset 25 RB / 0 RB Offset
		20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset 50 RB / 0 RB Offset
A	BAND EDGE	20407 to 20643	20407	1.4 MHz	QPSK, 16QAM	1 RB / 0 RB Offset 6 RB / 0 RB Offset
		20407 to 20643	20643	1.4 MHz	QPSK, 16QAM	1 RB / 5 RB Offset 6 RB / 0 RB Offset
		20415 to 20635	20415	3 MHz	QPSK, 16QAM	1 RB / 0 RB Offset 15 RB / 0 RB Offset
		20415 to 20635	20635	3 MHz	QPSK, 16QAM	1 RB / 14 RB Offset 15 RB / 0 RB Offset
		20425 to 20625	20425	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset 25 RB / 0 RB Offset
		20425 to 20625	20625	5MHz	QPSK, 16QAM	1 RB / 24 RB Offset 25 RB / 0 RB Offset
		20450 to 20600	20450	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset 50 RB / 0 RB Offset
		20450 to 20600	20600	10MHz	QPSK, 16QAM	1 RB / 49 RB Offset 50 RB / 0 RB Offset
A	CONDCUDED EMISSION	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
A	RADIATED EMISSION	20407 to 20643	20525	1.4MHz	QPSK	1 RB / 0 RB Offset
		20415 to 20635	20525	3MHz	QPSK	1 RB / 0 RB Offset
		20425 to 20625	20525	5MHz	QPSK	1 RB / 0 RB Offset
		20450 to 20600	20450, 20525, 20600	10MHz	QPSK	1 RB / 0 RB Offset

Note: This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP	23deg. C, 70%RH	DC 5/9/12V By Adapter	Hanwen Xu
FREQUENCY STABILITY	23deg. C, 70%RH	DC 3.87V By DC Supply	Hanwen Xu
OCCUPIED BANDWIDTH	23deg. C, 70%RH	DC 5/9/12V By Adapter	Hanwen Xu
BAND EDGE	23deg. C, 70%RH	DC 5/9/12V By Adapter	Hanwen Xu
CONDCUDED EMISSION	23deg. C, 70%RH	DC 5/9/12V By Adapter	Hanwen Xu
RADIATED EMISSION	23deg. C, 70%RH	DC 5/9/12V By Adapter	Hanwen Xu
PEAK TO AVERAGE RATIO	23deg. C, 70%RH	DC 5/9/12V By Adapter	Hanwen Xu

2.5 EUT OPERATING CONDITIONS

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency



Test Report No.: PSU-NQN2405090215RF01

2.6 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC 47 CFR Part 2

FCC 47 CFR Part 22

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI/TIA/EIA-603-D

ANSI/TIA/EIA-603-E

ANSI C63.26-2015

NOTE: All test items have been performed and recorded as per the above standards.

3 TEST TYPES AND RESULTS

3.1 OUTPUT POWER MEASUREMENT

3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

Mobile / Portable station are limited to 7 watts e.r.p.

3.1.2 TEST PROCEDURES

EIRP / ERP MEASUREMENT:

Per KDB 971168 D01 Power Meas License Digital Systems v03r01 or subclause 5.2.5.5 of ANSI C63.26-2015, the relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

$$\text{ERP or EIRP} = P_{\text{Meas}} + G_T - L_C$$

Where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power, respectively

(expressed in the same units as P_{Meas} , typically dBW or dBm);

P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;

G_T = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

L_C = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

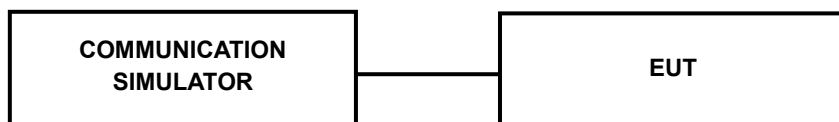
CONDUCTED POWER MEASUREMENT:

The EUT was set up for the maximum power with WCDMA link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

3.1.3 TEST SETUP

EIRP / ERP Measurement:

CONDUCTED POWER MEASUREMENT:



3.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm)

Band	GSM850		
Channel	128	189	251
Frequency	824.2	836.4	848.8
GSM	32.30	32.28	32.32
GPRS (GMSK, 1Tx-slot)	31.31	31.27	31.32
GPRS (GMSK, 2Tx-slot)	29.44	29.42	29.49
GPRS (GMSK, 3Tx-slot)	27.70	27.71	27.79
GPRS (GMSK, 4Tx-slot)	25.65	25.71	25.81
EDGE (8PSK, 1Tx-slot)	25.28	25.44	25.11
EDGE (8PSK, 2Tx-slot)	24.24	24.47	24.17
EDGE (8PSK, 3Tx-slot)	22.02	22.26	21.84
EDGE (8PSK, 4Tx-slot)	19.58	19.65	19.51

Band	WCDMA V		
Channel	4132	4182	4233
Frequency	826.4	836.4	846.6
RMC 12.2K	22.92	23.00	23.04
HSDPA Subtest-1	22.06	22.17	22.19
HSDPA Subtest-2	22.10	22.22	22.17
HSDPA Subtest-3	21.60	21.71	21.78
HSDPA Subtest-4	21.54	21.67	21.69
DC-HSDPA Subtest-1	22.21	22.26	22.17
DC-HSDPA Subtest-2	22.01	22.00	22.17
DC-HSDPA Subtest-3	21.56	21.62	21.63
DC-HSDPA Subtest-4	21.55	21.54	21.54
HSUPA Subtest-1	21.33	21.28	21.36
HSUPA Subtest-2	21.08	21.15	21.15
HSUPA Subtest-3	21.44	21.65	21.72
HSUPA Subtest-4	21.07	21.19	21.14
HSUPA Subtest-5	22.00	22.04	22.11
HSPA+ Subtest-1	21.46	21.63	21.60



LTE Band 5

Band/BW	Modulation	RB Size	RB Offset	Low CH 20407	Mid CH 20525	High CH 20643
				Frequency 824.7 MHz	Frequency 836.5 MHz	Frequency 848.3 MHz
5/ 1.4	QPSK	1	0	23.86	23.87	23.90
		1	2	23.65	23.74	23.86
		1	5	23.82	23.54	23.94
		3	0	23.56	23.53	23.64
		3	1	23.46	23.62	23.51
		3	3	23.54	23.55	23.49
		6	0	22.79	22.44	22.81
	16QAM	1	0	22.65	22.52	22.83
		1	2	22.65	22.62	22.78
		1	5	22.63	22.64	22.56
		3	0	22.87	22.85	22.84
		3	1	22.86	22.91	22.91
		3	3	22.84	22.76	22.87
		6	0	21.62	21.53	21.63
	64QAM	1	0	21.56	21.60	21.53
		1	2	21.69	21.66	21.59
		1	5	21.56	21.70	21.63
		3	0	21.61	21.63	21.63
		3	1	21.51	21.56	21.59
		3	3	21.51	21.48	21.57
		6	0	20.79	20.71	20.88



Band/BW	Modulation	RB Size	RB Offset	Low CH 20415	Mid CH 20525	High CH 20635
				Frequency 825.5 MHz	Frequency 836.5 MHz	Frequency 847.5 MHz
5/ 3	QPSK	1	0	23.82	23.86	23.87
		1	7	23.71	23.82	23.85
		1	14	23.77	23.58	23.93
		8	0	22.76	22.85	22.79
		8	3	22.73	22.75	22.73
		8	7	22.75	22.81	22.79
		15	0	22.83	22.51	22.78
	16QAM	1	0	22.74	22.43	22.90
		1	7	22.62	22.56	22.90
		1	14	22.58	22.61	22.60
		8	0	21.56	21.61	21.62
		8	3	21.65	21.62	21.66
		8	7	21.58	21.52	21.66
		15	0	21.49	21.51	21.57
	64QAM	1	0	21.55	21.52	21.49
		1	7	21.71	21.57	21.59
		1	14	21.63	21.61	21.69
		8	0	20.59	20.63	20.61
		8	3	20.60	20.50	20.58
		8	7	20.56	20.48	20.54
		15	0	20.83	20.59	21.00

Band/BW	Modulation	RB Size	RB Offset	Low CH 20425	Mid CH 20525	High CH 20625
				Frequency 826.5 MHz	Frequency 836.5 MHz	Frequency 846.5 MHz
5/ 5	QPSK	1	0	23.84	23.84	23.90
		1	12	23.74	23.88	23.78
		1	24	23.83	23.60	23.84
		12	0	22.80	22.80	22.75
		12	6	22.66	22.72	22.75
		12	13	22.68	22.70	22.72
		25	0	22.72	22.49	22.84
	16QAM	1	0	22.63	22.45	22.92
		1	12	22.70	22.53	22.79
		1	24	22.56	22.70	22.60
		12	0	21.49	21.62	21.57
		12	6	21.65	21.70	21.74
		12	13	21.58	21.52	21.61
		25	0	21.60	21.58	21.63
	64QAM	1	0	21.67	21.61	21.53
		1	12	21.66	21.64	21.58
		1	24	21.57	21.58	21.67
		12	0	20.56	20.57	20.60
		12	6	20.52	20.51	20.54
		12	13	20.55	20.50	20.53
		25	0	20.79	20.73	21.00



Band/BW	Modulation	RB Size	RB Offset	Low CH 20450	Mid CH 20525	High CH 20600
				Frequency 829 MHz	Frequency 836.5 MHz	Frequency 844 MHz
5/ 10	QPSK	1	0	23.93	23.90	24.01
		1	24	23.78	23.89	23.92
		1	49	23.85	23.68	23.95
		25	0	22.88	22.86	22.89
		25	12	22.76	22.83	22.81
		25	25	22.77	22.82	22.83
		50	0	22.86	22.59	22.91
	16QAM	1	0	22.75	22.56	22.96
		1	24	22.73	22.63	22.91
		1	49	22.65	22.71	22.66
		25	0	21.60	21.66	21.68
		25	12	21.67	21.71	21.75
		25	25	21.61	21.59	21.68
		50	0	21.64	21.66	21.67
	64QAM	1	0	21.68	21.64	21.62
		1	24	21.72	21.70	21.73
		1	49	21.70	21.71	21.71
		25	0	20.66	20.64	20.67
		25	12	20.64	20.62	20.65
		25	25	20.59	20.58	20.61
		50	0	20.92	20.74	21.02

ERP POWER (dBm)

GSM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
128	824.2	32.3	-3.3	26.85	484.17	7
189	836.4	32.28	-3.3	26.83	481.95	7
251	848.8	32.32	-3.3	26.87	486.41	7

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).

EDGE

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
128	824.2	25.28	-3.3	19.83	96.16	7
189	836.4	25.44	-3.3	19.99	99.77	7
251	848.8	25.11	-3.3	19.66	92.47	7

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).

WCDMA

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
4132	826.4	22.92	-3.3	17.47	55.85	7
4182	836.4	23	-3.3	17.55	56.89	7
4233	846.6	23.04	-3.3	17.59	57.41	7

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).

**LTE BAND 5****CHANNEL BANDWIDTH: 1.4MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20407	824.7	23.86	-3.3	18.41	69.34	7
20525	836.5	23.87	-3.3	18.42	69.5	7
20643	848.3	23.94	-3.3	18.49	70.63	7

CHANNEL BANDWIDTH: 1.4MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20407	824.7	22.87	-3.3	17.42	55.21	7
20525	836.5	22.91	-3.3	17.46	55.72	7
20643	848.3	22.91	-3.3	17.46	55.72	7

CHANNEL BANDWIDTH: 1.4MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20407	824.7	21.69	-3.3	16.24	42.07	7
20525	836.5	21.7	-3.3	16.25	42.17	7
20643	848.3	21.63	-3.3	16.18	41.5	7

CHANNEL BANDWIDTH: 3MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20415	825.5	23.82	-3.3	18.37	68.71	7
20525	836.5	23.86	-3.3	18.41	69.34	7
20635	847.5	23.93	-3.3	18.48	70.47	7

CHANNEL BANDWIDTH: 3MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20415	825.5	22.74	-3.3	17.29	53.58	7
20525	836.5	22.61	-3.3	17.16	52	7
20635	847.5	22.9	-3.3	17.45	55.59	7

**CHANNEL BANDWIDTH: 3MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20415	825.5	21.71	-3.3	16.26	42.27	7
20525	836.5	21.61	-3.3	16.16	41.3	7
20635	847.5	21.69	-3.3	16.24	42.07	7

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20425	826.5	23.84	-3.3	18.39	69.02	7
20525	836.5	23.88	-3.3	18.43	69.66	7
20625	846.5	23.9	-3.3	18.45	69.98	7

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20425	826.5	22.7	-3.3	17.25	53.09	7
20525	836.5	22.7	-3.3	17.25	53.09	7
20625	846.5	22.92	-3.3	17.47	55.85	7

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20425	826.5	21.67	-3.3	16.22	41.88	7
20525	836.5	21.64	-3.3	16.19	41.59	7
20625	846.5	21.67	-3.3	16.22	41.88	7

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20450	829.0	23.93	-3.3	18.48	70.47	7
20525	836.5	23.9	-3.3	18.45	69.98	7
20600	844.0	24.01	-3.3	18.56	71.78	7

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20450	829.0	22.75	-3.3	17.3	53.7	7
20525	836.5	22.71	-3.3	17.26	53.21	7
20600	844.0	22.96	-3.3	17.51	56.36	7

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20450	829.0	21.72	-3.3	16.27	42.36	7
20525	836.5	21.71	-3.3	16.26	42.27	7
20600	844.0	21.73	-3.3	16.28	42.46	7

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).

3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

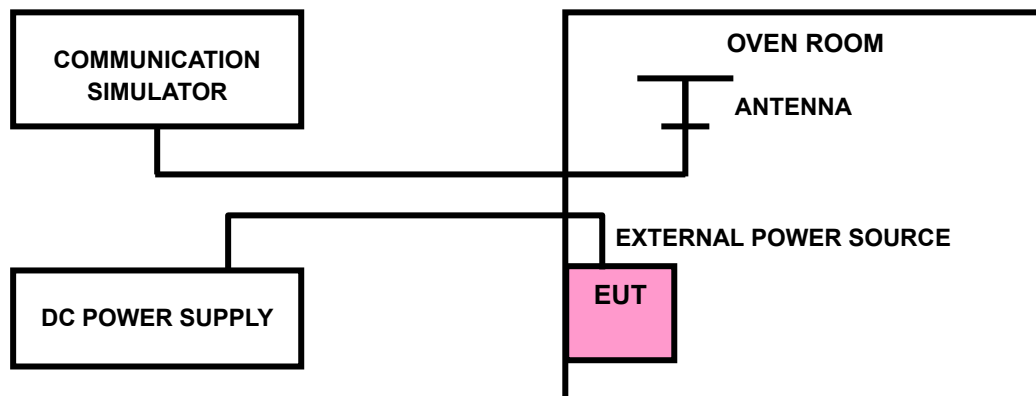
1.5 ppm is for base and fixed station. 2.5 ppm is for mobile station.

3.2.2 TEST PROCEDURE

- Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the $\pm 0.5^{\circ}\text{C}$ during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

NOTE: The frequency error was recorded frequency error from the communication simulator.

3.2.3 TEST SETUP





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3.2.4 TEST RESULTS

Please Refer to Appendix Of this test report.

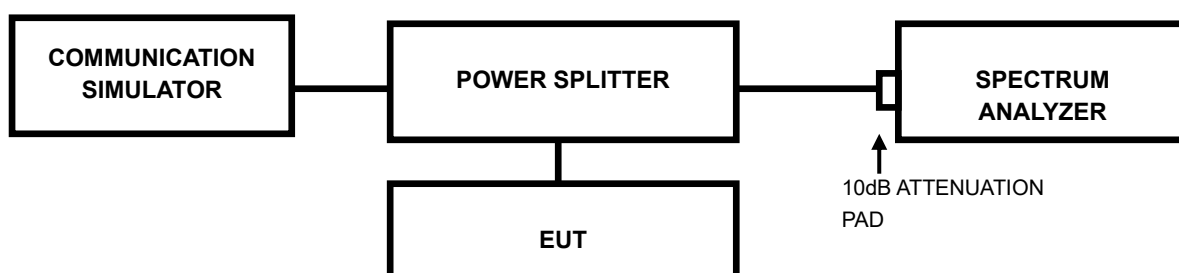
Note: VL = Low voltage(3.6V); VN/NV = Normal voltage(3.87V); VH = High voltage(4.45V);
NT = Normal temperature (25°C)

3.3 OCCUPIED BANDWIDTH MEASUREMENT

3.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

3.3.2 TEST SETUP



3.3.3 TEST PROCEDURES

- The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.



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3.3.4 TEST RESULTS

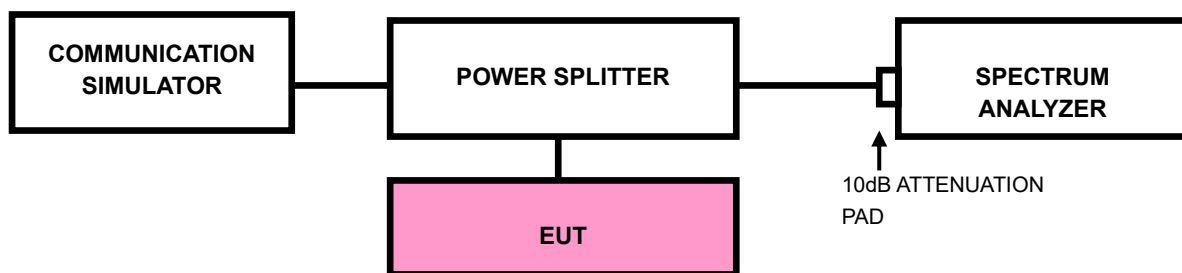
Please Refer to Appendix Of this test report.

3.4 BAND EDGE MEASUREMENT

3.4.1 LIMITS OF BAND EDGE MEASUREMENT

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. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

3.4.2 TEST SETUP



3.4.3 TEST PROCEDURES

- a) All measurements were done at low and high operational frequency range
- b) Connect the transmitter to the spectrum analyzer via coaxial cable while ensuring proper impedance matching.
- c) Tune the analyzer to the nominal center frequency of the emission bandwidth (EBW)
- d) .Set the resolution bandwidth (RBW) $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
- e) Beyond the 1MHz band from the band edge, RBW=1MHz was used.
- f) Set the video bandwidth (VBW) to $\geq 3 \times$ RBW.
- g) Select the average power (RMS) display detector.
- h) Set the number of measurement points to ≥ 1001 .
- i) Use auto-coupled sweep time.
- j) Perform the measurement over an interval of time when the transmission is continuous and at its maximum power level.
- k) The RF fundamental frequency should be excluded against the limit line in the operating frequency band and use RBW is 10KHz or 100KHz.
- l) Record the max trace plot into the test report.



Test Report No.: PSU-NQN2405090215RF01

3.4.4 TEST RESULTS

Please Refer to Appendix Of this test report.

3.5 CONDUCTED SPURIOUS EMISSIONS

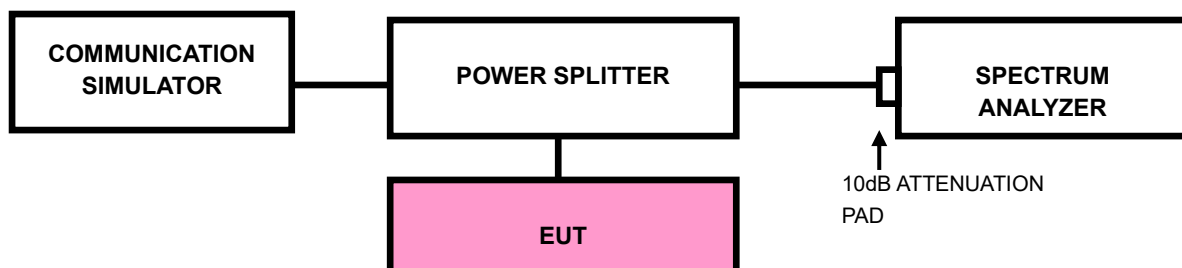
3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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. The emission limit equal to -13dBm .

3.5.2 TEST PROCEDURE

- The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- Measuring frequency range is from 9kHz up to a frequency including its 10th harmonic. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

3.5.3 TEST SETUP





Test Report No.: PSU-NQN2405090215RF01

3.5.4 TEST RESULTS

NOTE : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

Please Refer to Appendix Of this test report.

3.6 RADIATED EMISSION MEASUREMENT

3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT

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. The emission limit equal to -13dBm .

3.6.2 TEST PROCEDURES

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G
- c. $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$.
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole,
 $\text{E.R.P power} = \text{E.I.P.R power} - 2.15\text{dBi}$.

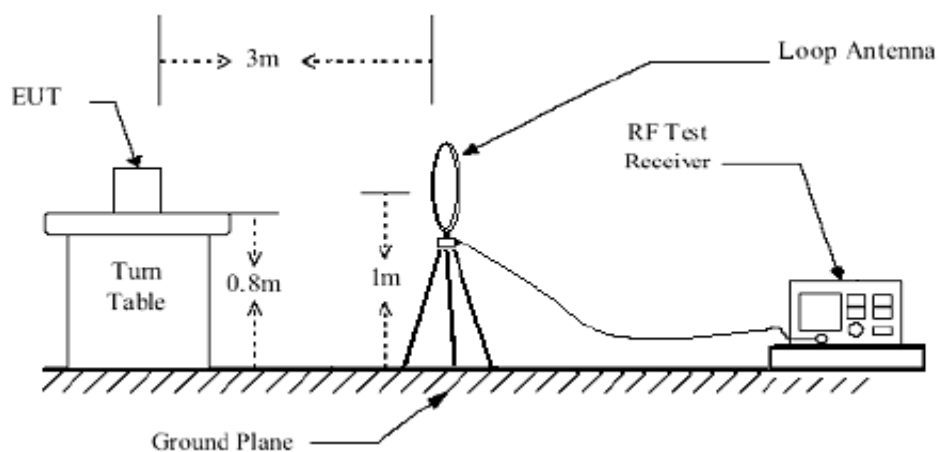
NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

3.6.3 DEVIATION FROM TEST STANDARD

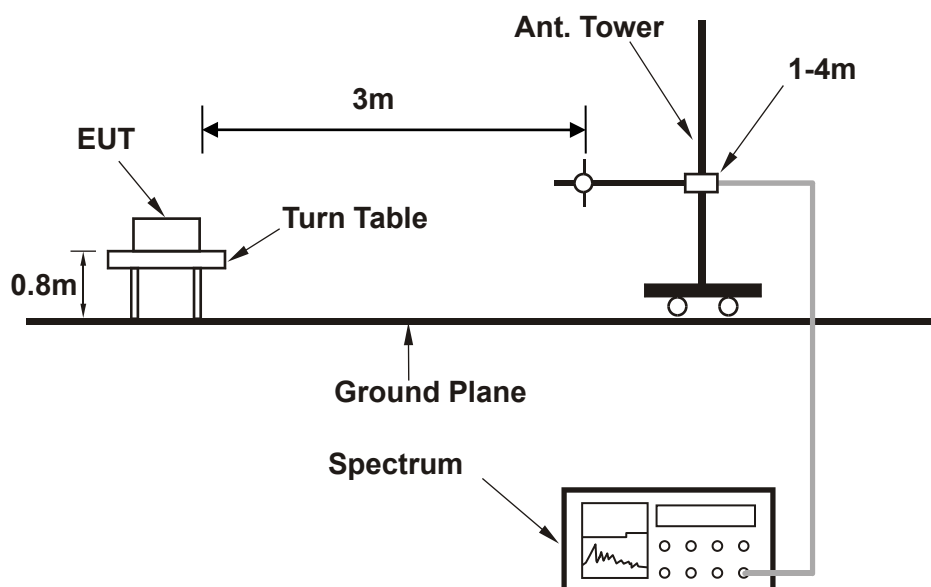
No deviation

3.6.4 TEST SETUP

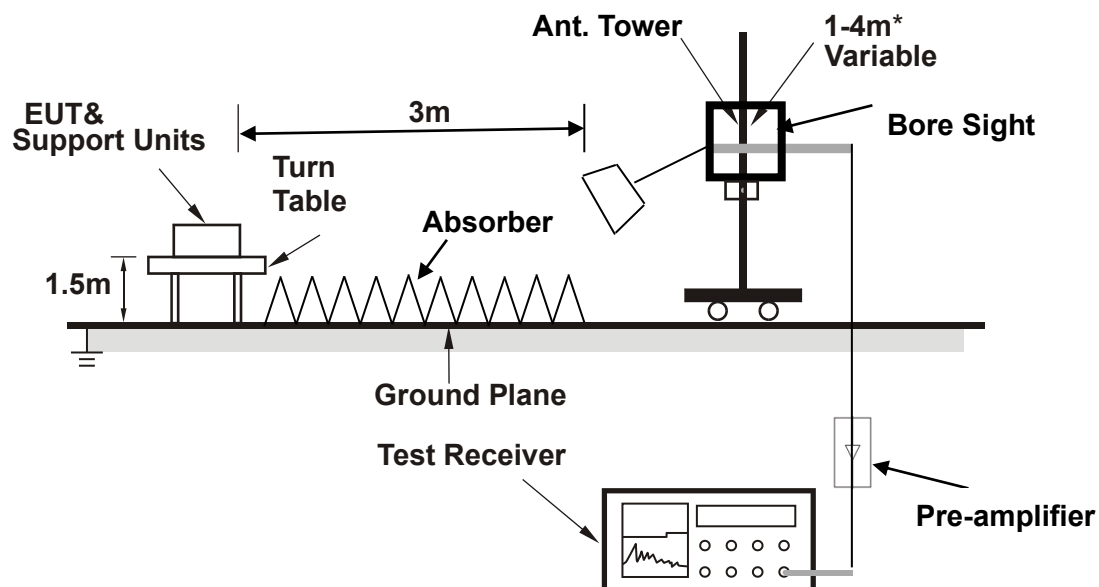
< Frequency Range below 30MHz >



< Frequency Range 30MHz~1GHz >



<Frequency Range above 1GHz>



Note: Above 1G is a directional antenna

Depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

3.6.5 TEST RESULTS

NOTE : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

BELOW 1GHz WORST-CASE DATA

30 MHz – 1GHz data:

WCDMA Band V:

MODE	TX channel 4233	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	37.450	-63.73	-13.00	50.73	5.42	H	0.9	2.00
1	58.650	-69.15	-13.00	56.15	1.53	H	156.2	2.00
1	90.850	-73.13	-13.00	60.13	-5.87	H	156.2	2.00
1	193.400	-66.01	-13.00	53.01	0.13	H	102.1	1.00
1	290.150	-70.29	-13.00	57.29	1.78	H	215.7	1.00
1	439.700	-72.25	-13.00	59.25	7.39	H	328	1.00



MODE	TX channel 4233	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	32.900	-64.09	-13.00	51.09	-1.35	V	1	1.00
1	58.050	-69.06	-13.00	56.06	1.23	V	5.4	2.00
1	98.950	-54.69	-13.00	41.69	10.21	V	269.4	1.00
1	167.900	-79.02	-13.00	66.02	-5.07	V	269.8	2.00
1	290.100	-72.61	-13.00	59.61	3.92	V	102.5	2.00
1	430.500	-72.35	-13.00	59.35	6.60	V	269.4	1.00





ABOVE 1GHz DATA

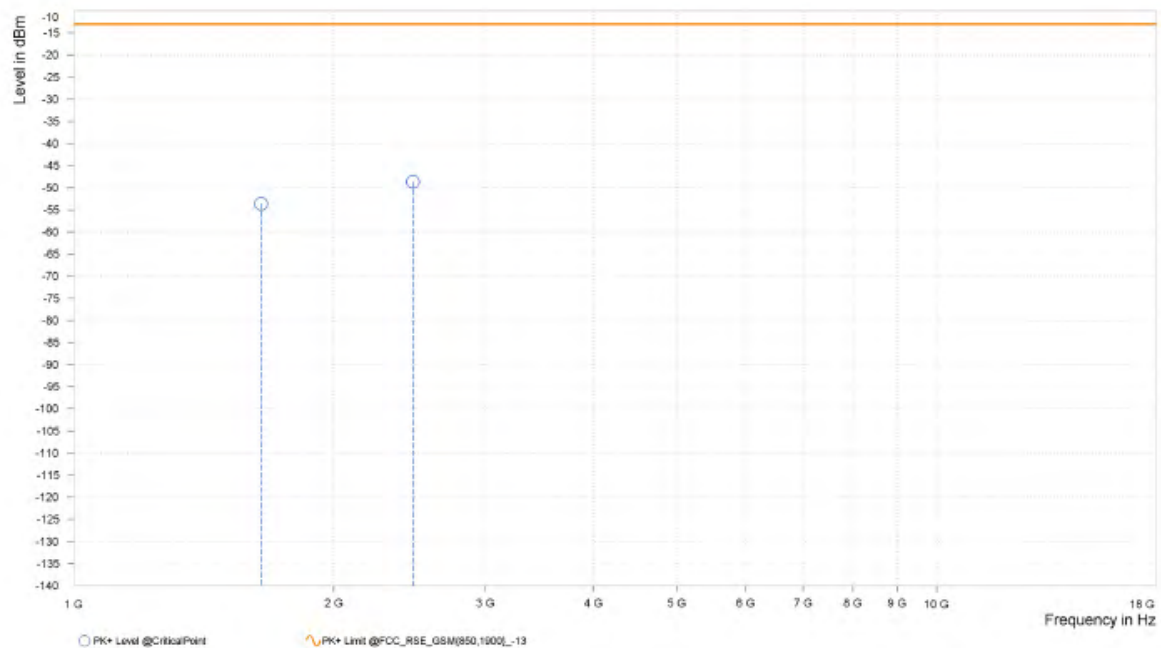
Note: For higher frequency, the emission is too low to be detected.

GSM 850

CH 128:

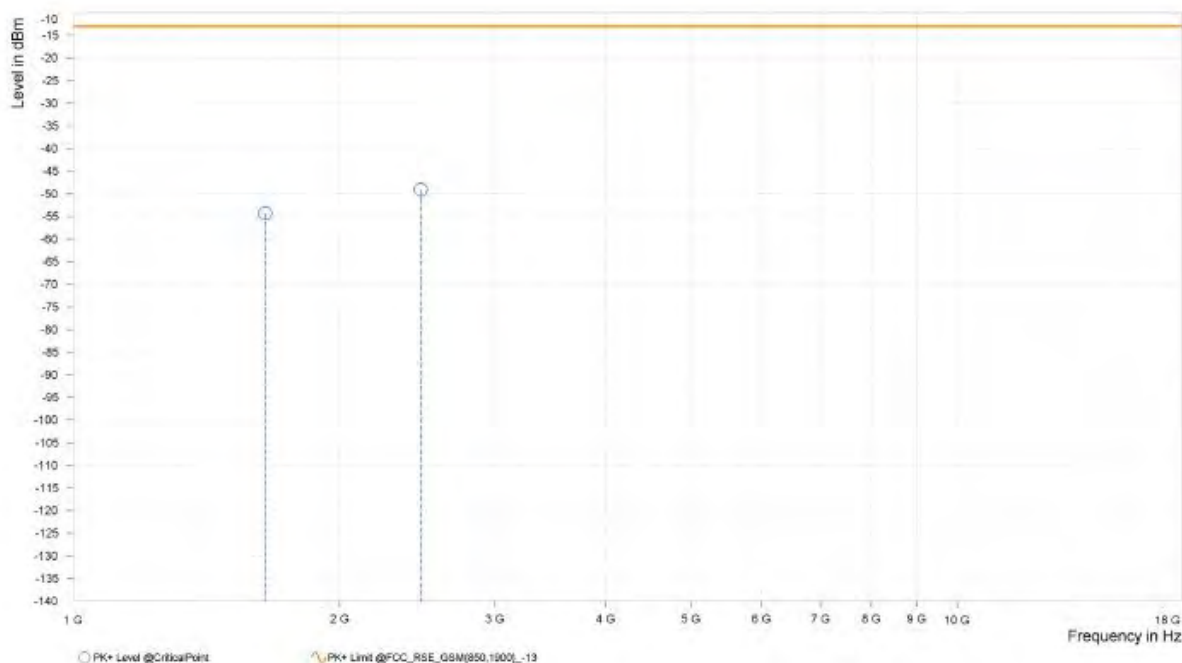
MODE	TX channel 128	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,648.400	-53.64	-13.00	40.64	15.93	H	272.2	2.00
3	2,472.600	-48.68	-13.00	35.68	20.69	H	359	2.00



MODE	TX channel 128	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

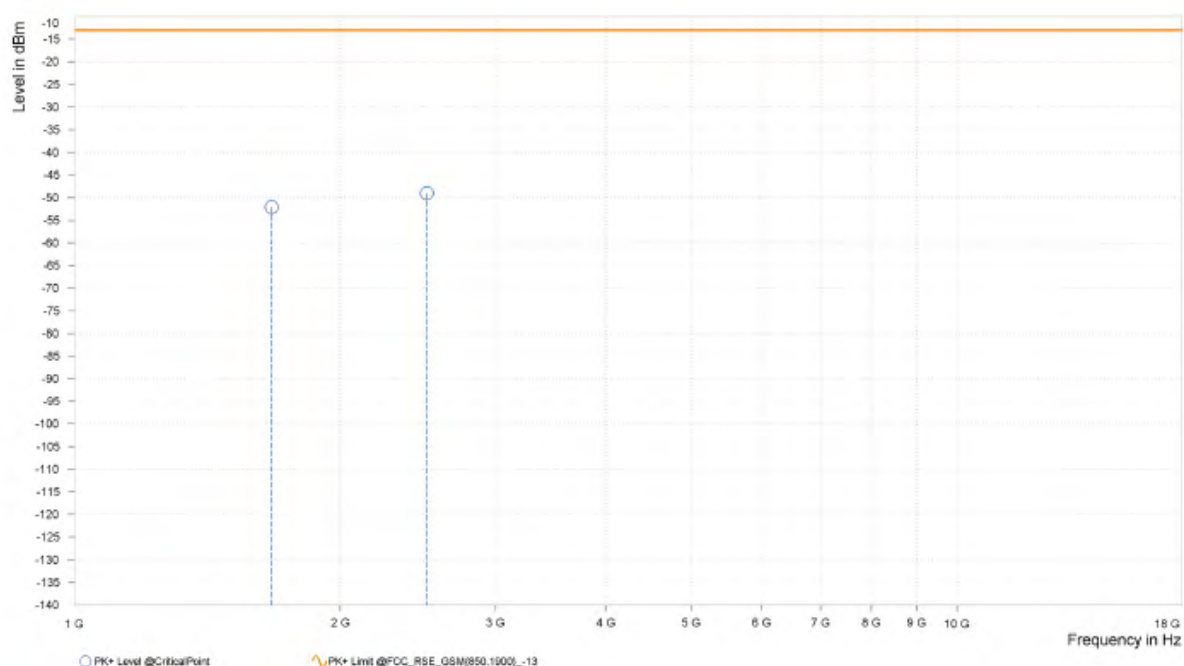
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,648.400	-54.32	-13.00	41.32	15.51	V	271.1	2.00
3	2,472.600	-49.11	-13.00	36.11	20.95	V	0.9	2.00



CH 189:

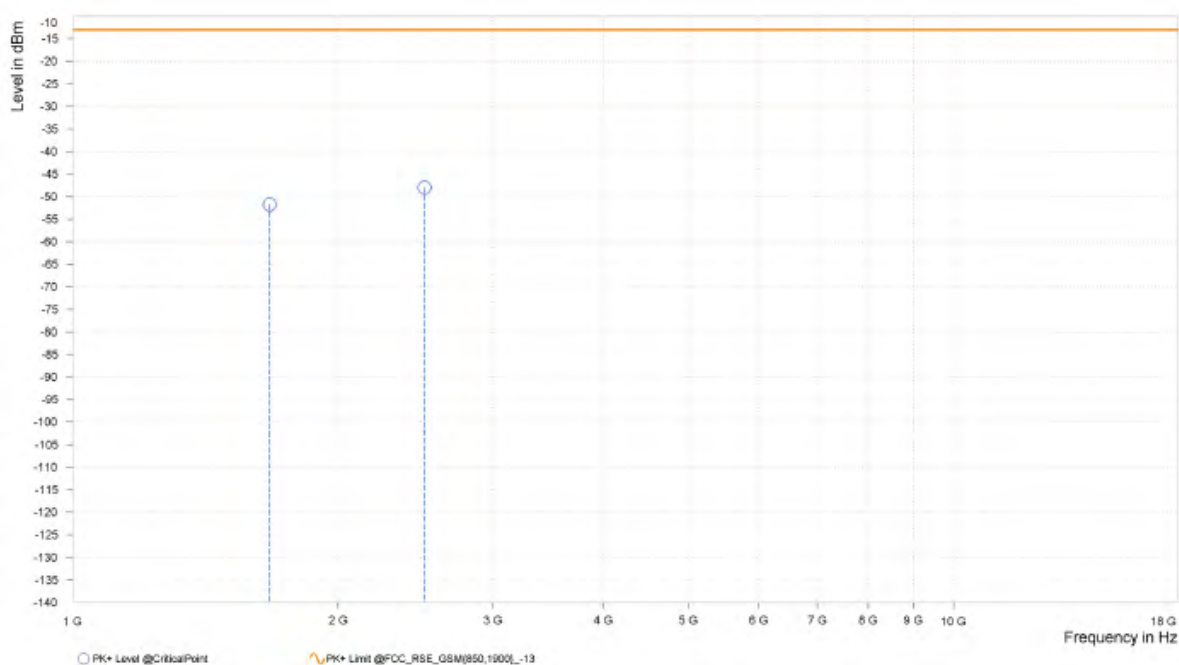
MODE	TX channel 189	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,673.000	-52.12	-13.00	39.12	16.68	H	359	1.00
3	2,509.000	-49.02	-13.00	36.02	21.00	H	193.3	2.00



MODE	TX channel 189	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

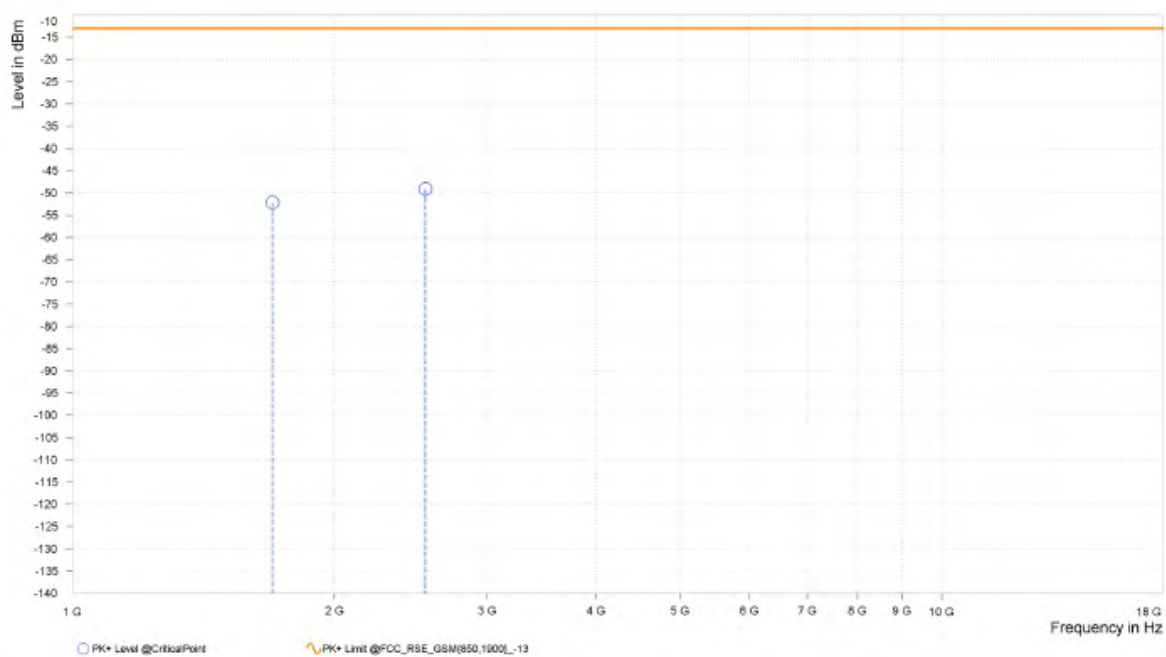
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1.673.000	-51.77	-13.00	38.77	15.57	V	359	1.00
3	2.509.000	-48.00	-13.00	35.00	21.61	V	1	1.00



CH 251:

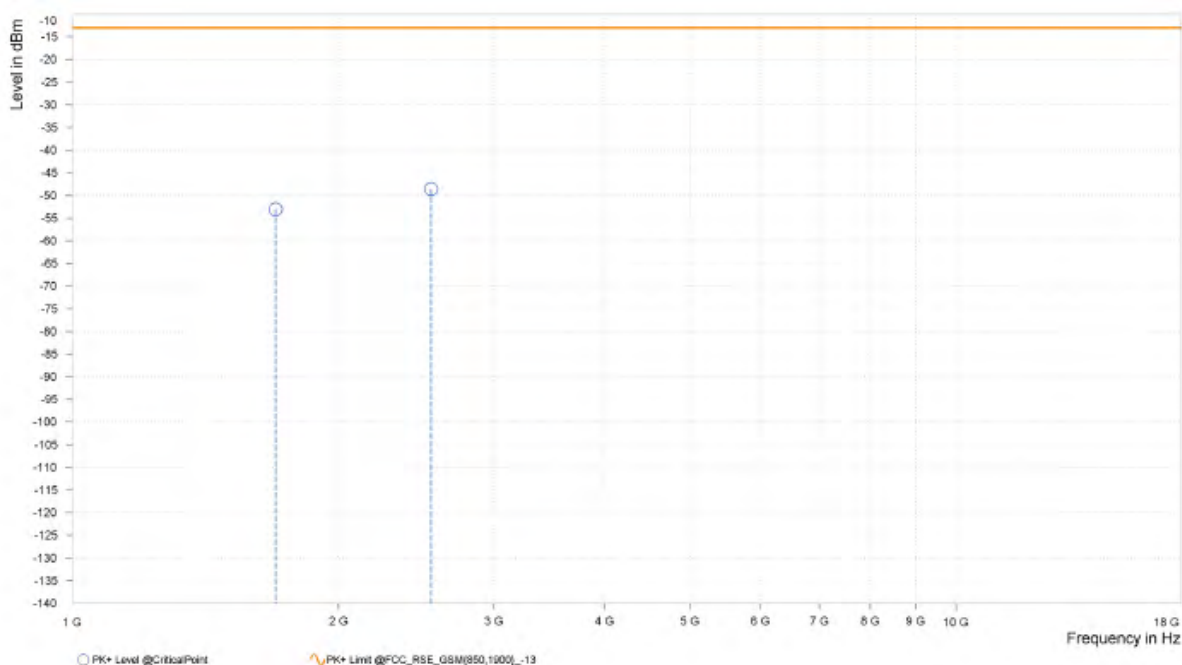
MODE	TX channel 251	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,697.600	-52.21	-13.00	39.21	17.07	H	88.9	1.00
3	2,546.400	-49.11	-13.00	36.11	20.94	H	160.6	1.00



MODE	TX channel 251	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,697.600	-53.04	-13.00	40.04	16.29	V	271	2.00
3	2,546.400	-48.59	-13.00	35.59	21.56	V	1	1.00

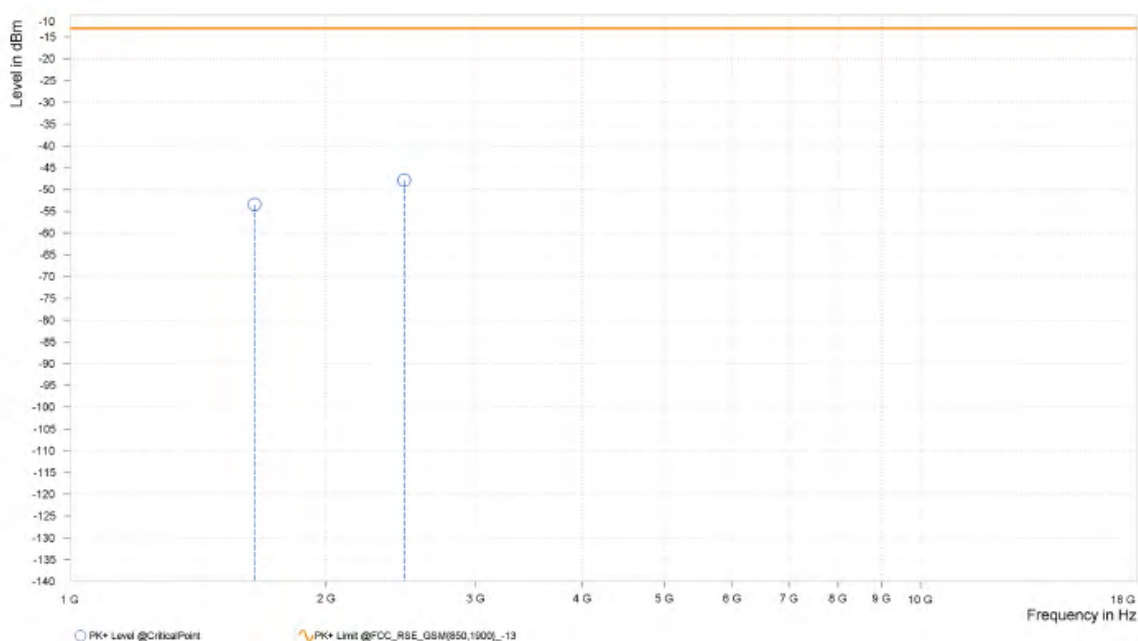


EDGE 850:

CH 128:

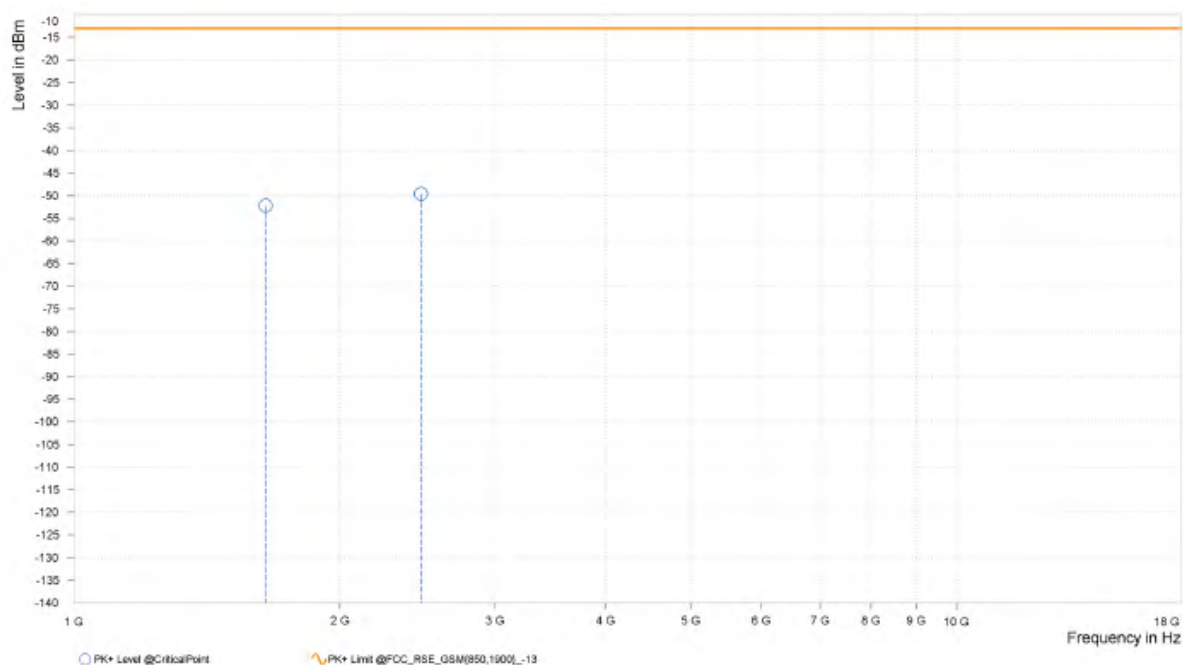
MODE	TX channel 128	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,648.400	-53.43	-13.00	40.43	15.93	H	358.3	1.00
3	2,472.600	-47.87	-13.00	34.87	20.69	H	1	2.00



MODE	TX channel 128	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

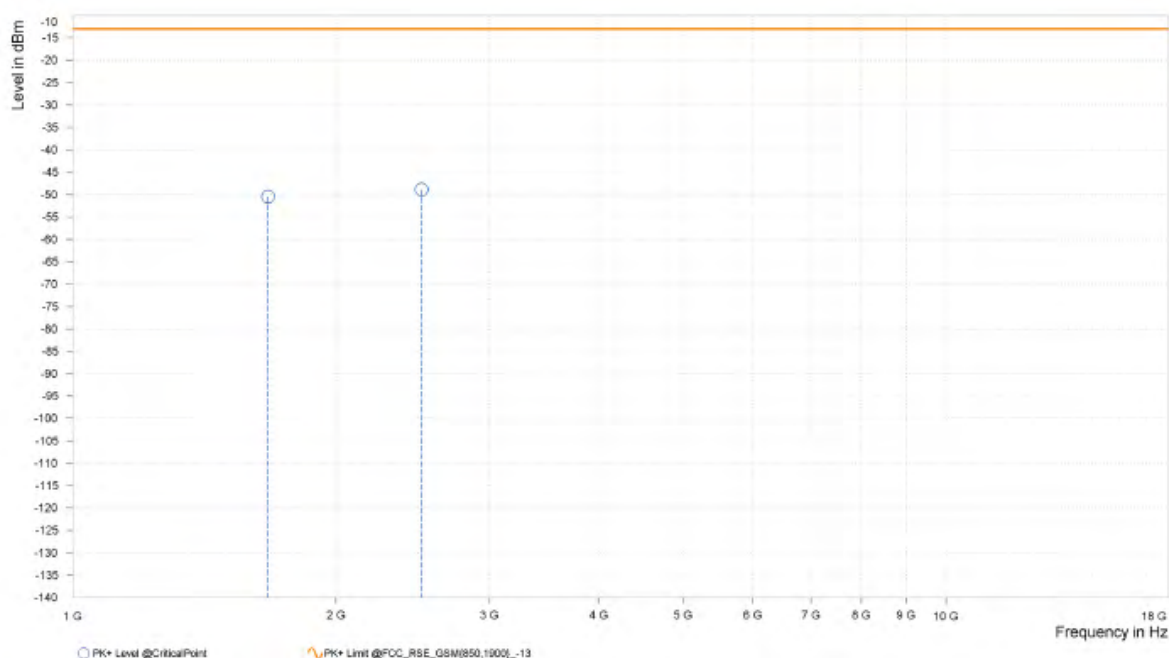
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,648.400	-52.20	-13.00	39.20	15.51	V	1.4	2.00
3	2,472.600	-49.62	-13.00	36.62	20.95	V	163	1.00



CH 189:

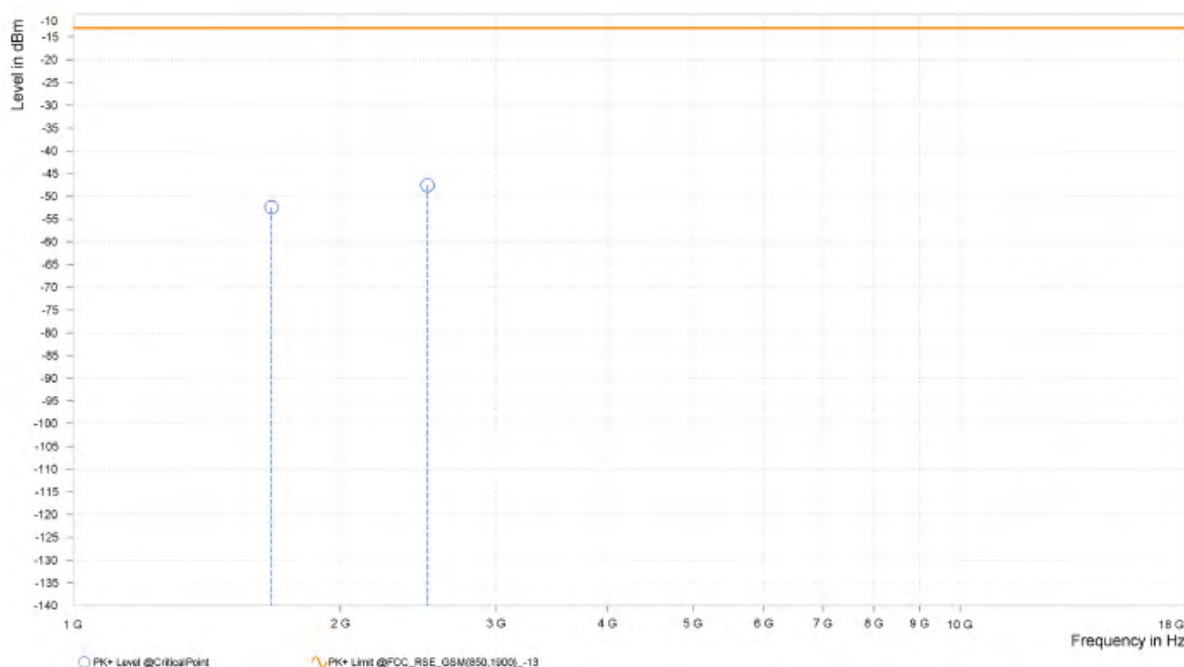
MODE	TX channel 189	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,673.000	-50.49	-13.00	37.49	16.68	H	359.1	1.00
3	2,509.000	-48.86	-13.00	35.86	21.00	H	359	2.00



MODE	TX channel 189	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

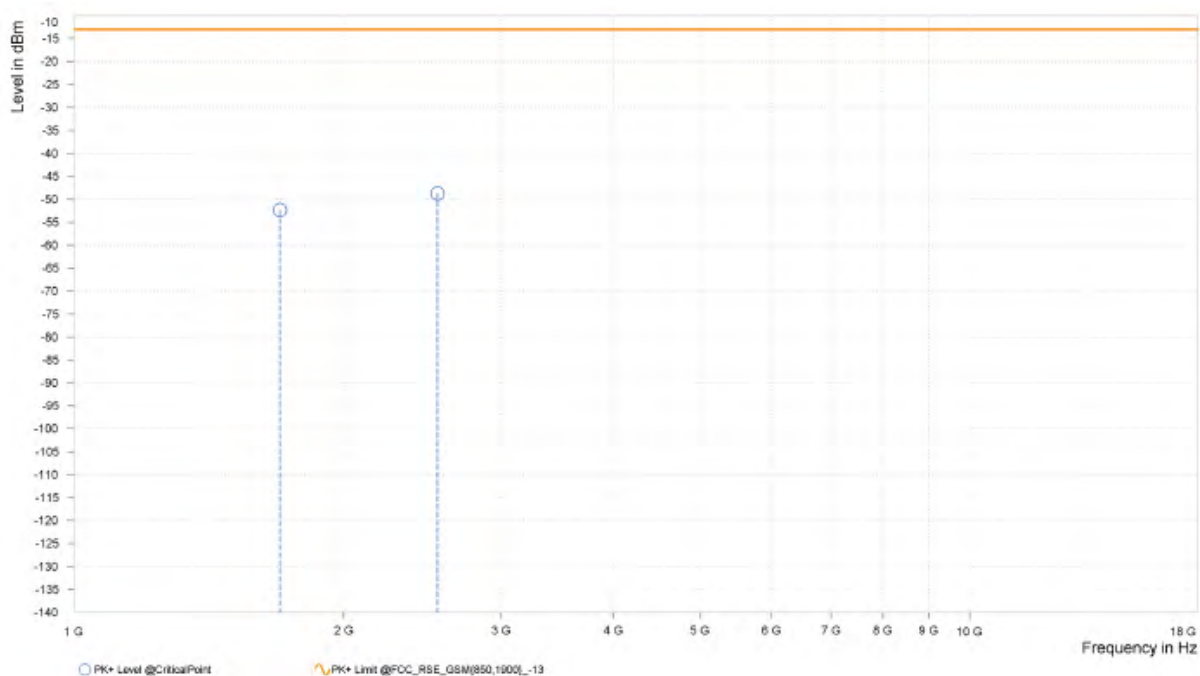
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,673.000	-52.45	-13.00	39.45	15.57	V	85.3	1.00
3	2,509.000	-47.58	-13.00	34.58	21.61	V	359	1.00



CH 251:

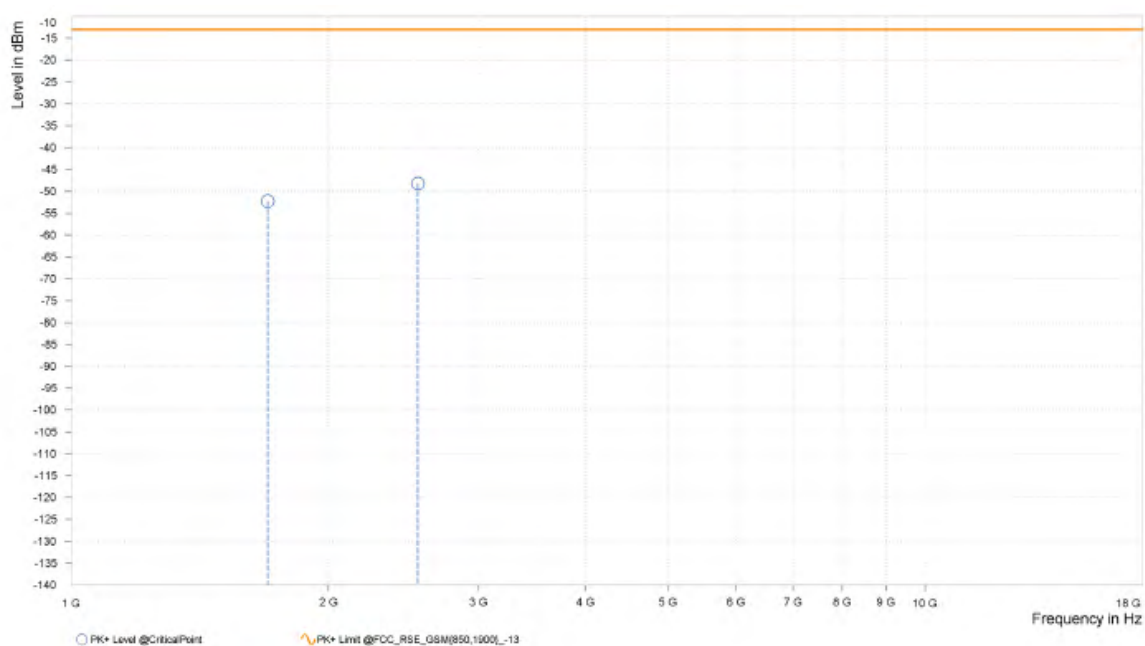
MODE	TX channel 251	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,697.600	-52.32	-13.00	39.32	17.07	H	359	1.00
3	2,546.400	-48.72	-13.00	35.72	20.94	H	359.1	1.00



MODE	TX channel 251	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,697.600	-52.26	-13.00	39.26	16.29	V	272.2	2.00
3	2,546.400	-48.23	-13.00	35.23	21.56	V	190.9	2.00

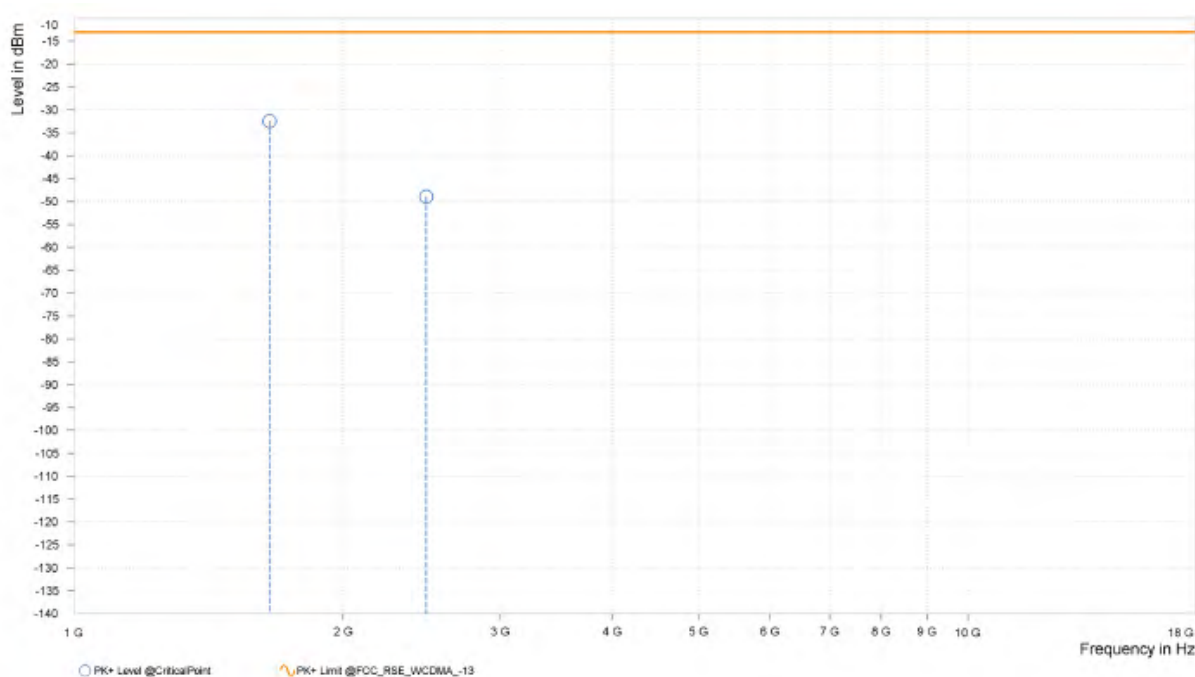


WCDMA Band V:

CH 4132:

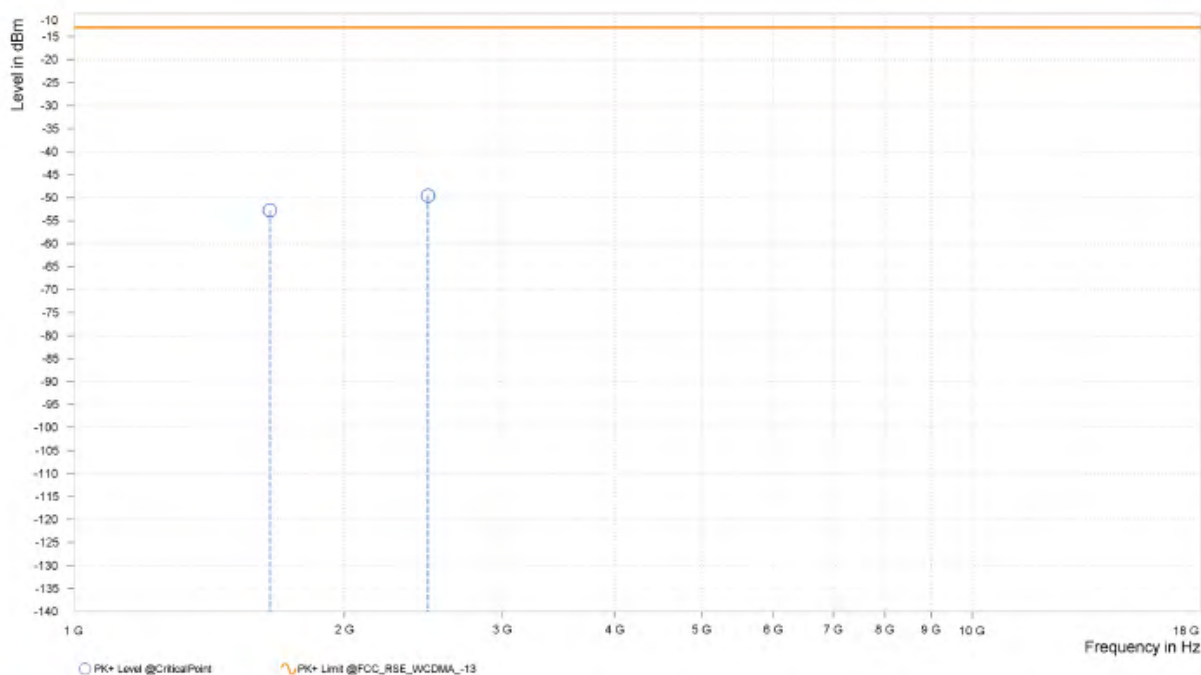
MODE	TX channel 4132	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,655.500	-32.44	-13.00	19.44	13.96	H	65.5	2.00
3	2,479.200	-48.93	-13.00	35.93	19.47	H	259.1	2.00



MODE	TX channel 4132	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

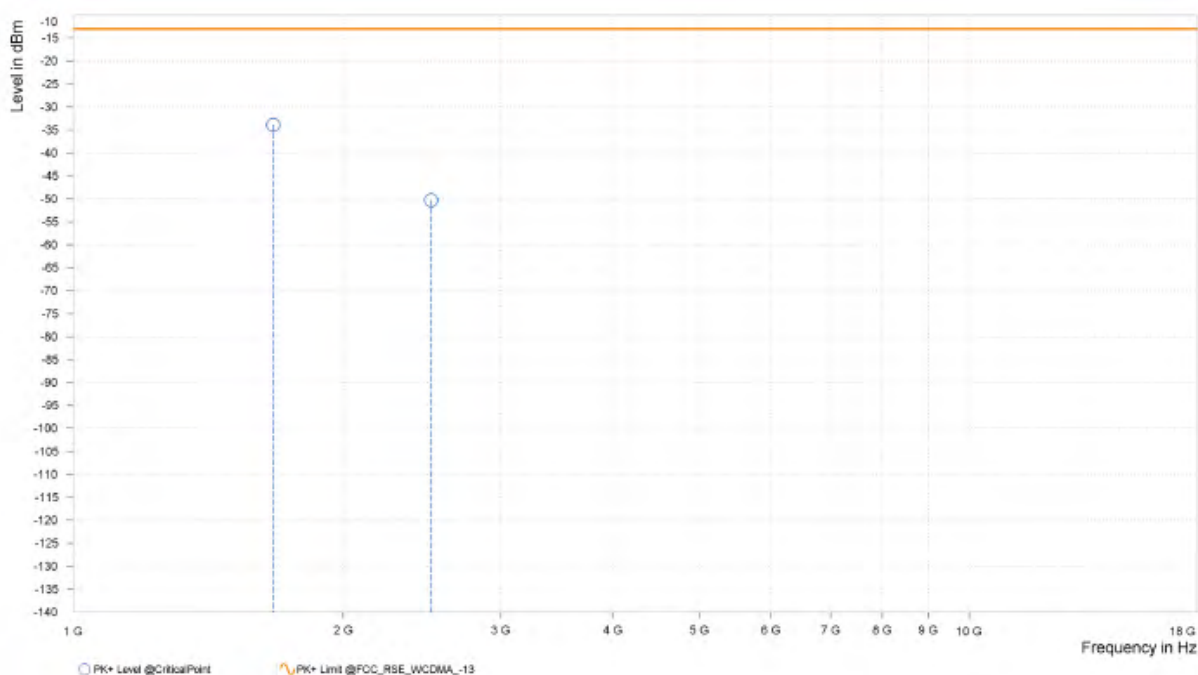
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,652.800	-52.79	-13.00	39.79	13.13	V	297	1.00
3	2,479.200	-49.60	-13.00	36.60	19.71	V	102.1	1.00



CH 4182:

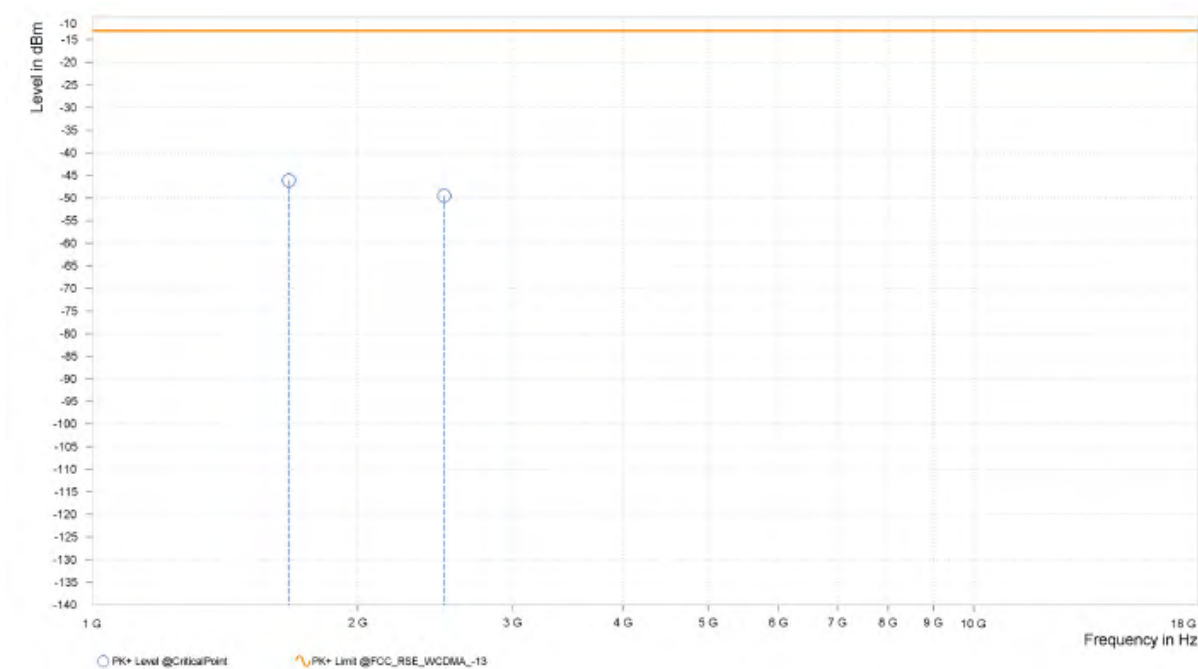
MODE	TX channel 4182	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,670.500	-33.91	-13.00	20.91	14.33	H	66.6	2.00
3	2,509.000	-50.30	-13.00	37.30	19.71	H	358.7	1.00



MODE	TX channel 4182	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,671.500	-46.12	-13.00	33.12	13.23	V	22.6	2.00
3	2,509.000	-49.50	-13.00	36.50	20.32	V	241.1	2.00





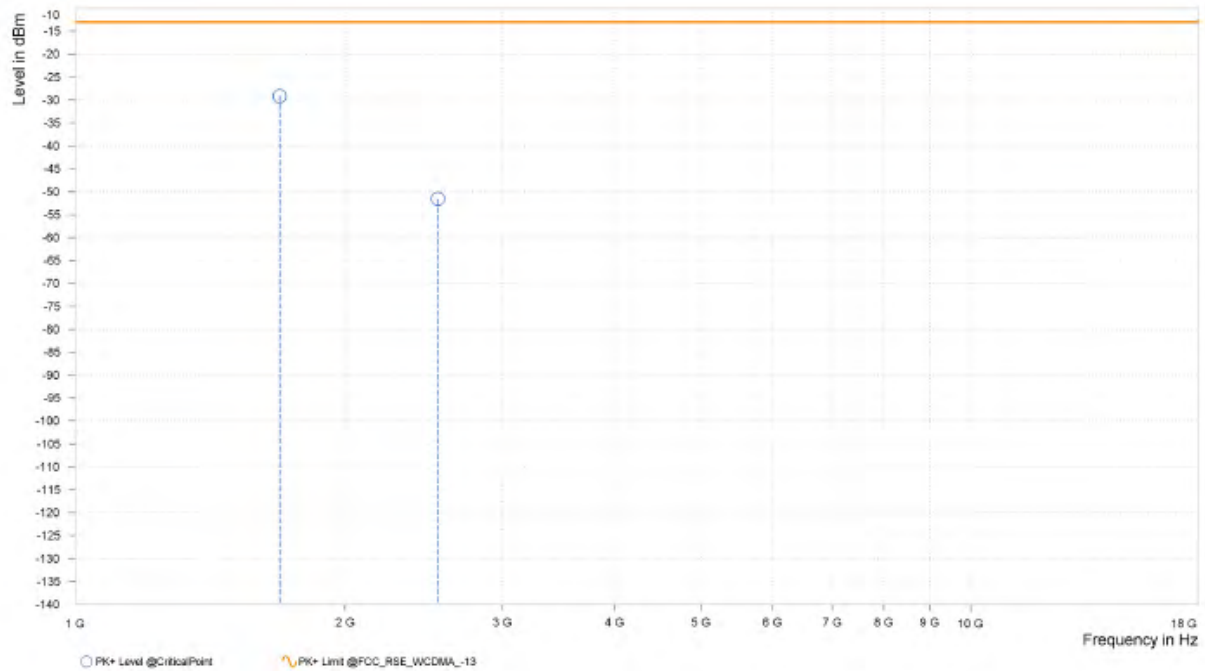
BUREAU
VERITAS

Test Report No.: PSU-NQN2405090215RF01

CH 4233:

MODE	TX channel 4233	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,691.500	-29.14	-13.00	16.14	14.68	H	65.4	2.00
3	2,539.800	-51.59	-13.00	38.59	19.36	H	101	1.00



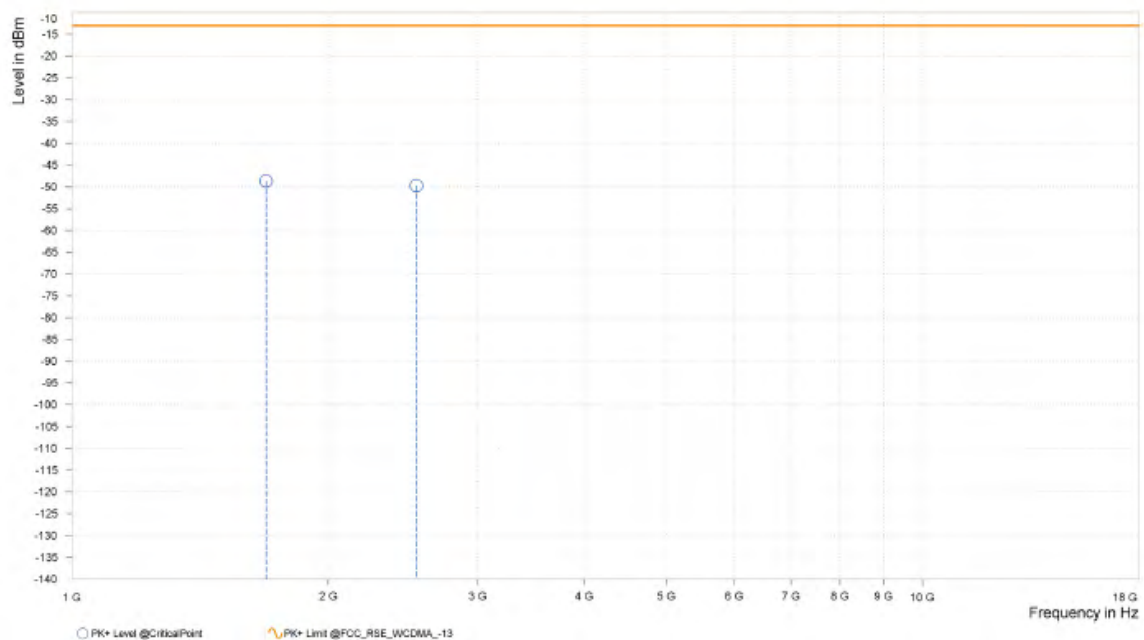


BUREAU
VERITAS

Test Report No.: PSU-NQN2405090215RF01

MODE	TX channel 4233	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,691.500	-48.68	-13.00	35.68	13.69	V	309.3	2.00
3	2,539.800	-49.75	-13.00	36.75	20.05	V	359	2.00



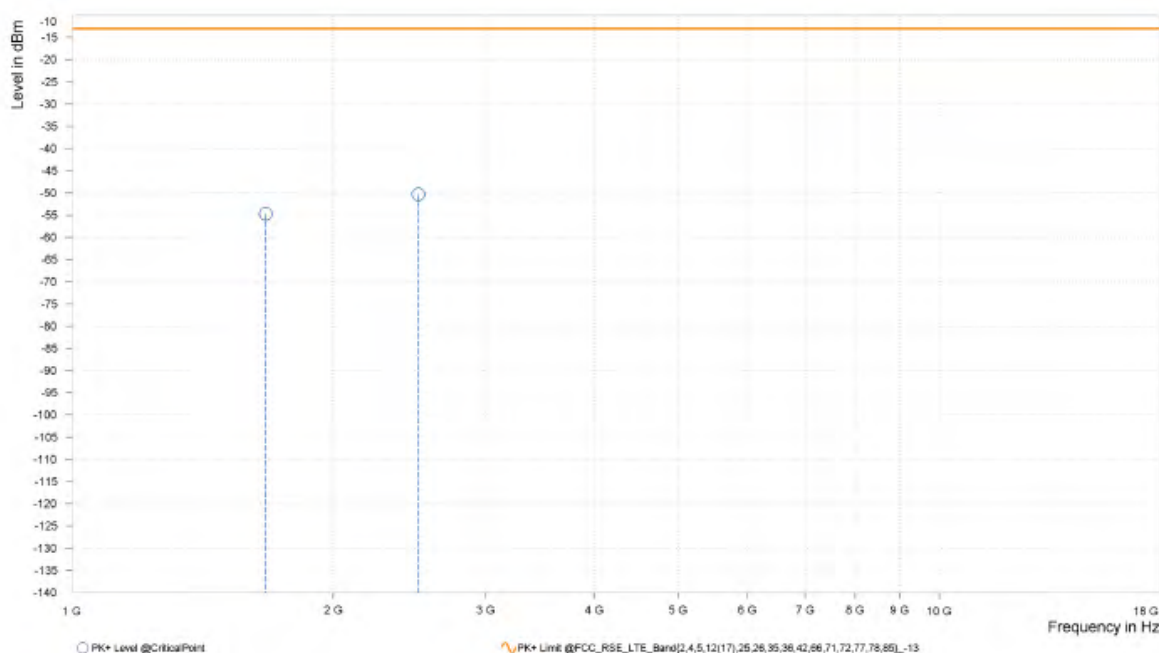
LTE Band 5

CHANNEL BANDWIDTH: 1.4MHz / QPSK

CH20525

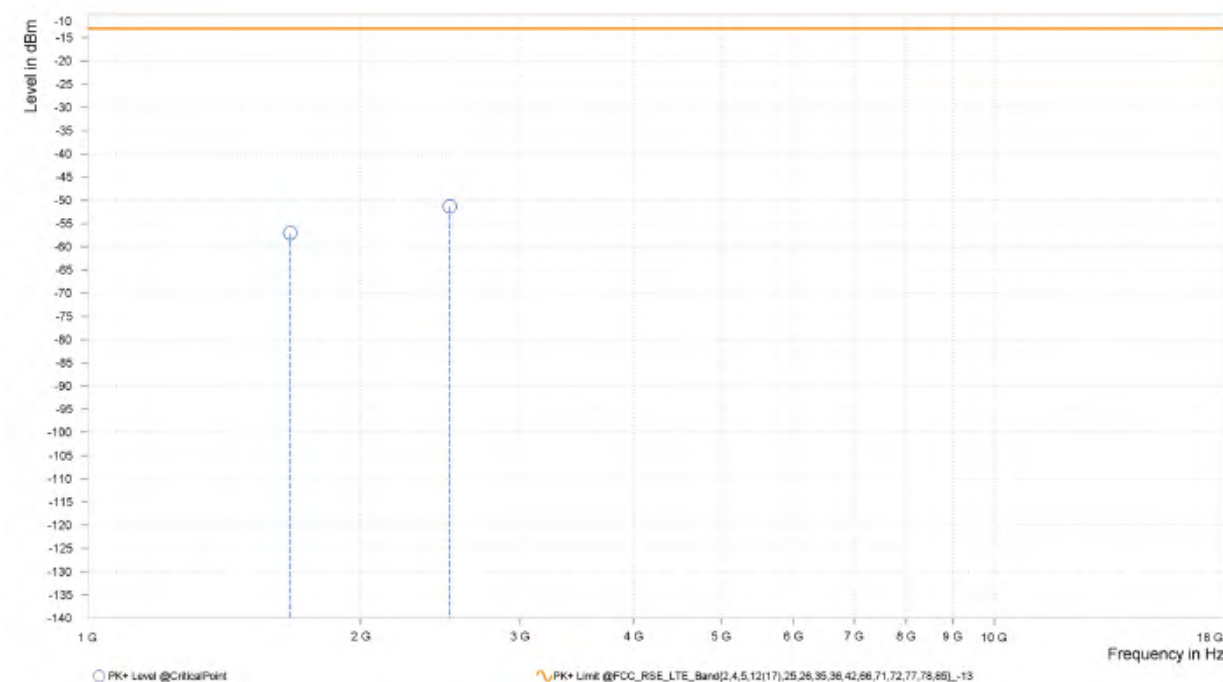
MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,671.740	-54.73	-13.00	41.73	14.79	H	357.7	1.00
3	2,507.610	-50.35	-13.00	37.35	19.73	H	130.7	1.00



MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

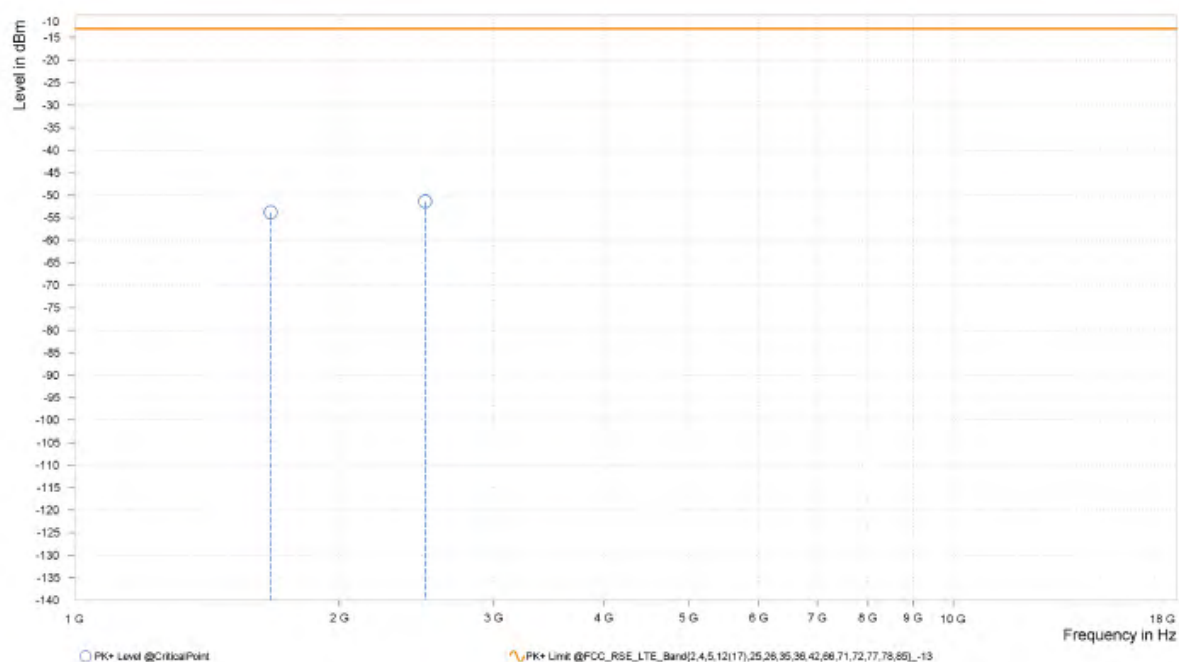
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,671.740	-57.07	-13.00	44.07	13.68	V	359	2.00
3	2,507.610	-51.35	-13.00	38.35	20.30	V	359	2.00



CHANNEL BANDWIDTH: 3MHz / QPSK

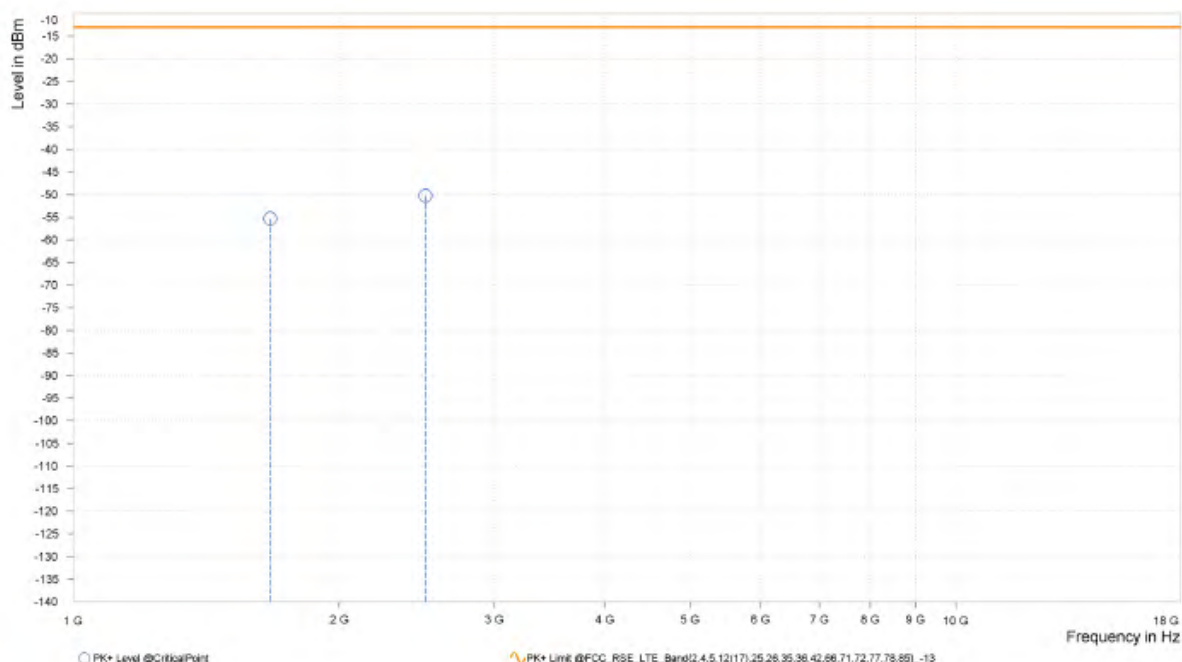
MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,670.300	-53.80	-13.00	40.80	14.78	H	297.4	2.00
3	2,505.450	-51.44	-13.00	38.44	19.76	H	359	2.00



MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

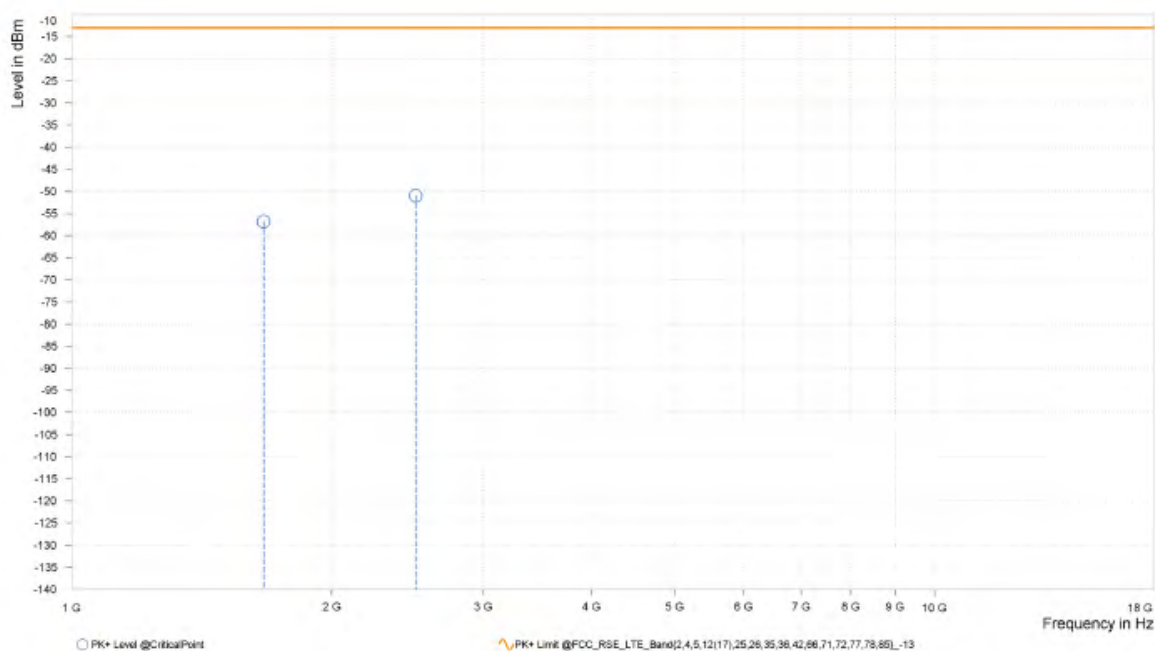
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,670.300	-55.33	-13.00	42.33	13.67	V	296.1	2.00
3	2,505.450	-50.23	-13.00	37.23	20.28	V	124.9	1.00



CHANNEL BANDWIDTH: 5MHz / QPSK

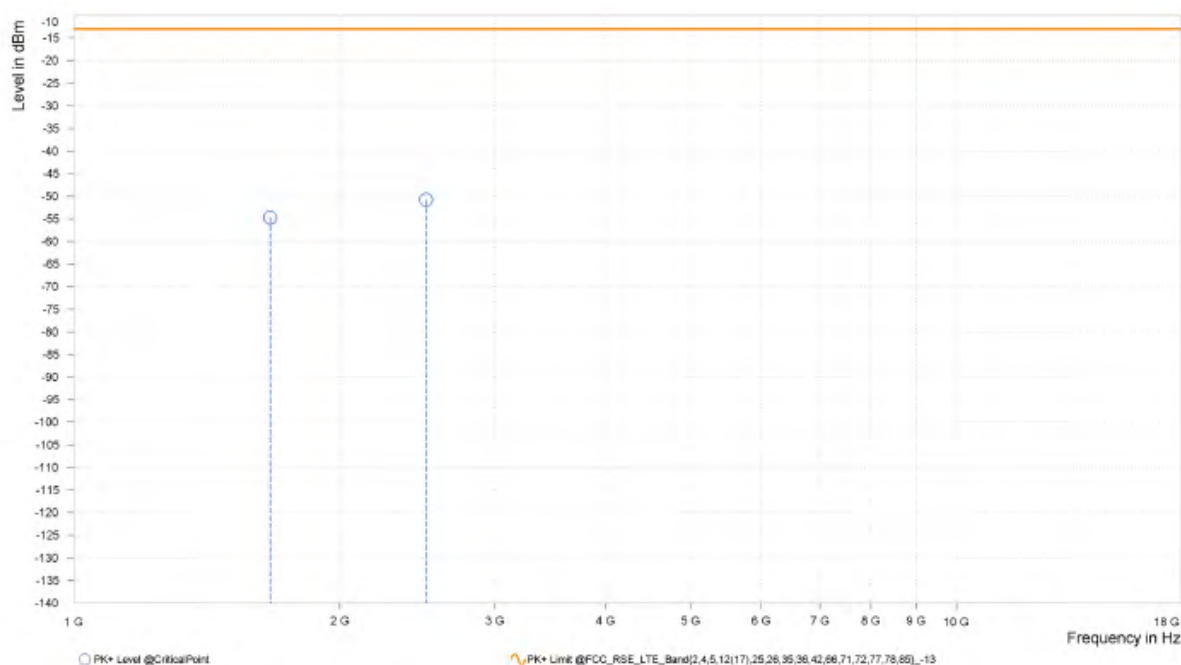
MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,668.500	-56.81	-13.00	43.81	14.75	H	291.4	2.00
3	2,502.750	-50.96	-13.00	37.96	19.80	H	358.3	1.00



MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,668.500	-54.72	-13.00	41.72	13.64	V	295	2.00
3	2,505.450	-50.75	-13.00	37.75	20.28	V	359	1.00

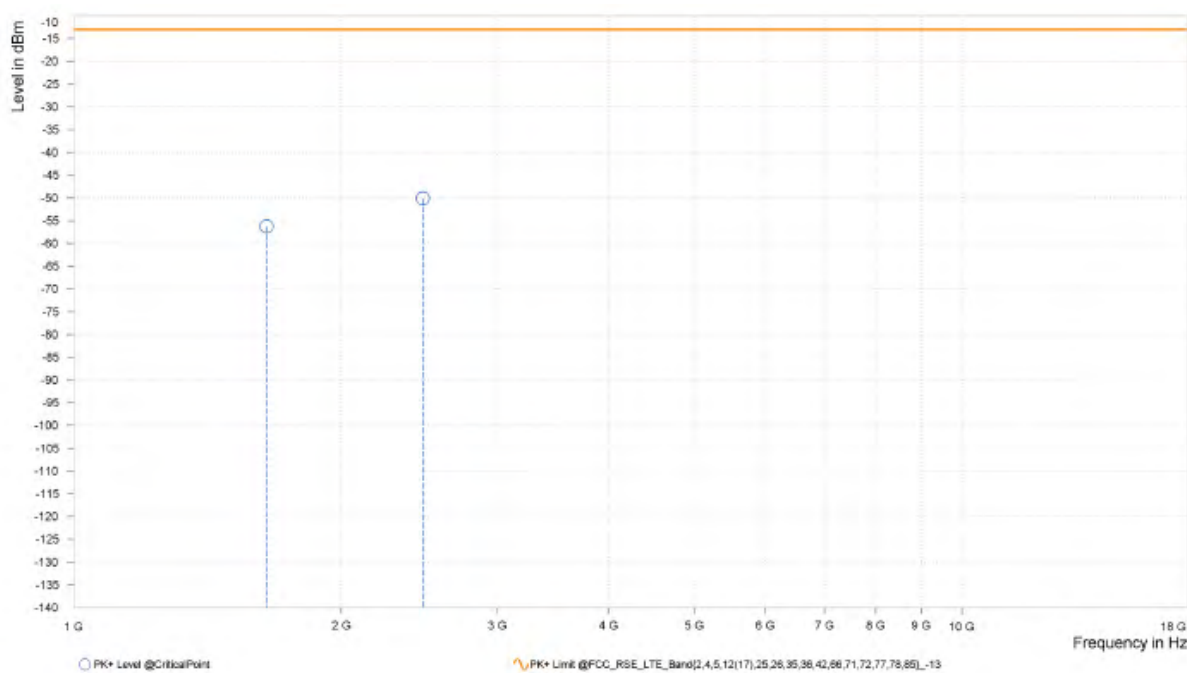


CHANNEL BANDWIDTH: 10MHz / QPSK

CH20450

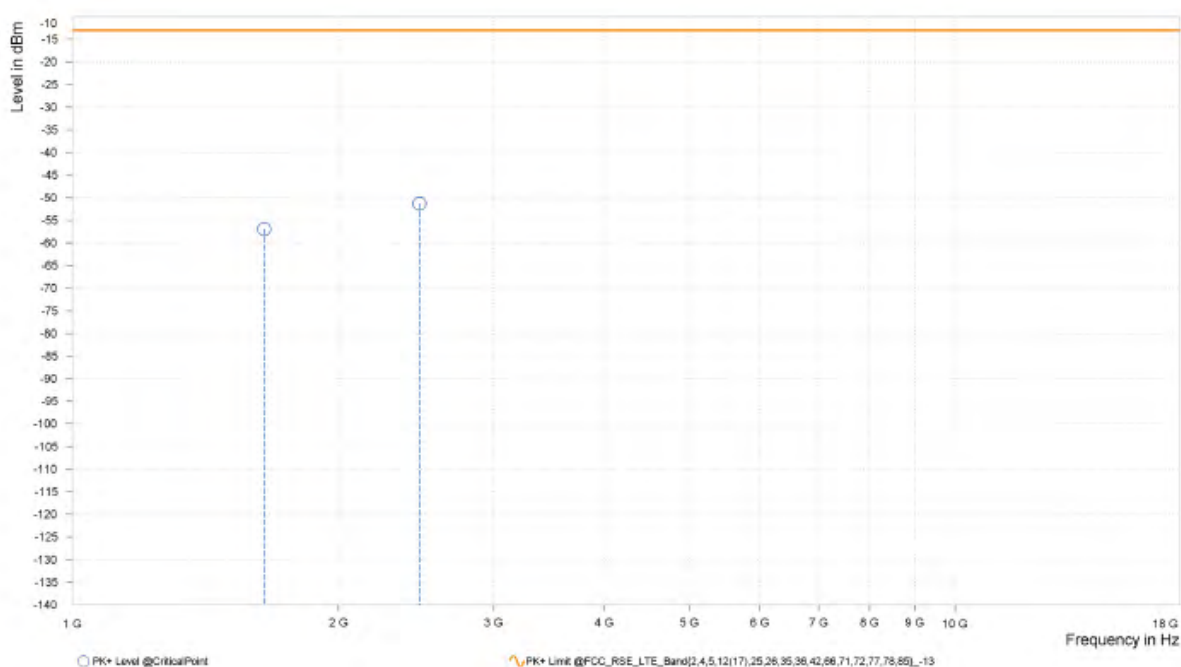
MODE	TX channel 20450	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,648.140	-56.26	-13.00	43.26	14.04	H	1	1.00
3	2,472.210	-50.13	-13.00	37.13	19.27	H	359.1	1.00



MODE	TX channel 20450	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

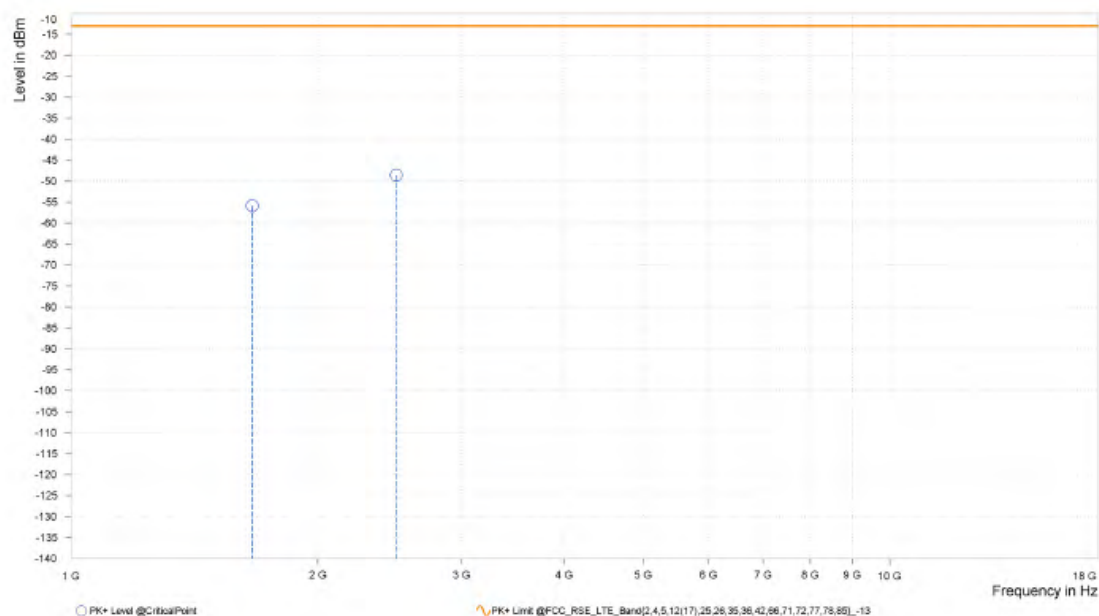
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,648.140	-56.96	-13.00	43.96	13.65	V	359	2.00
3	2,472.210	-51.32	-13.00	38.32	19.52	V	359.1	1.00



CH20525

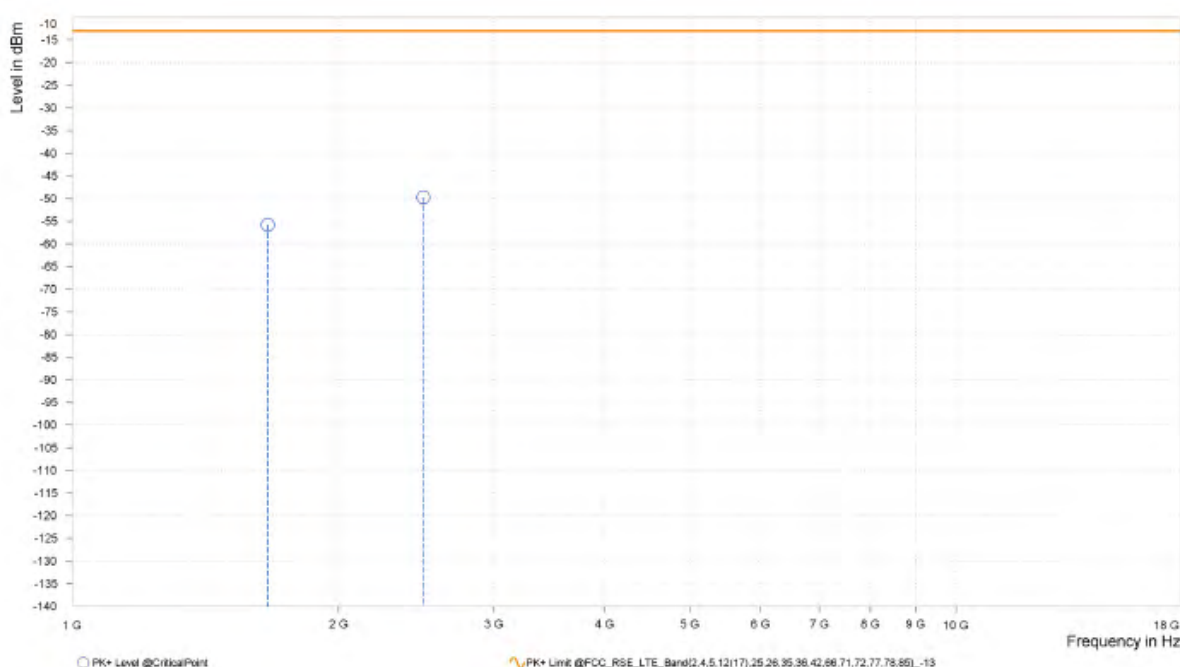
MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,664.000	-55.92	-13.00	42.92	14.67	H	0.9	2.00
3	2,496.000	-48.61	-13.00	35.61	19.88	H	39.1	2.00



MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

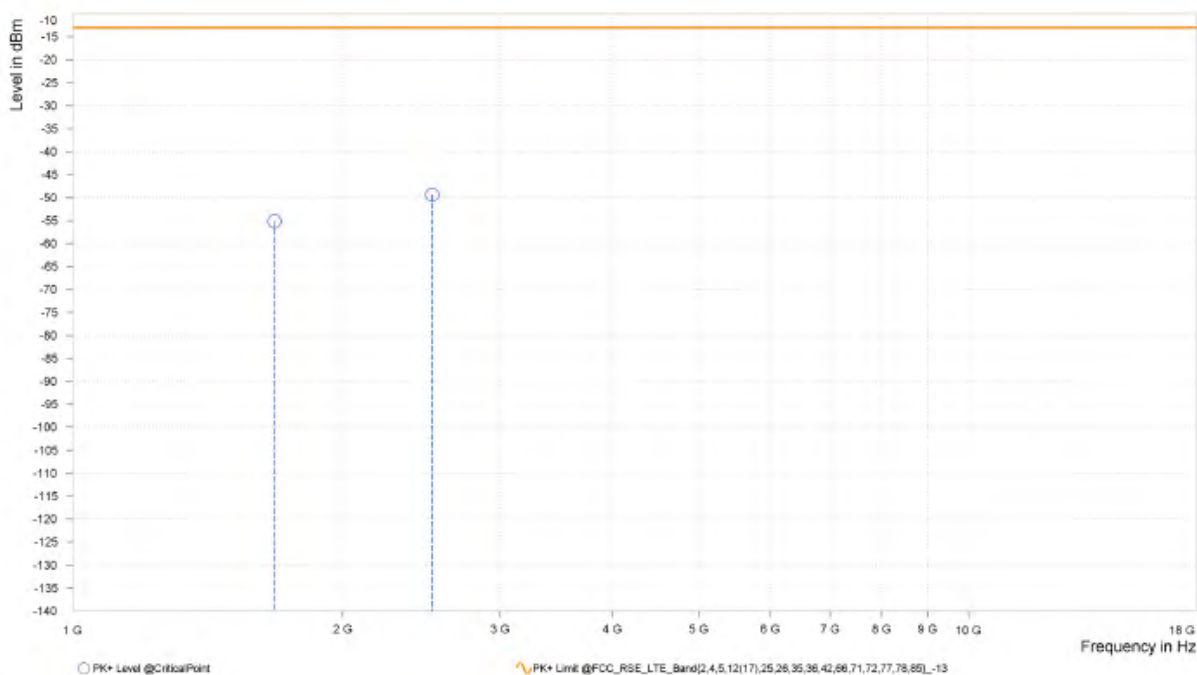
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,664.000	-55.80	-13.00	42.80	13.55	V	1	1.00
3	2,496.000	-49.76	-13.00	36.76	20.16	V	1.3	2.00



CH20600

MODE	TX channel 20600	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,679.000	-55.16	-13.00	42.16	14.86	H	293.8	2.00
3	2,518.500	-49.37	-13.00	36.37	19.48	H	228	2.00



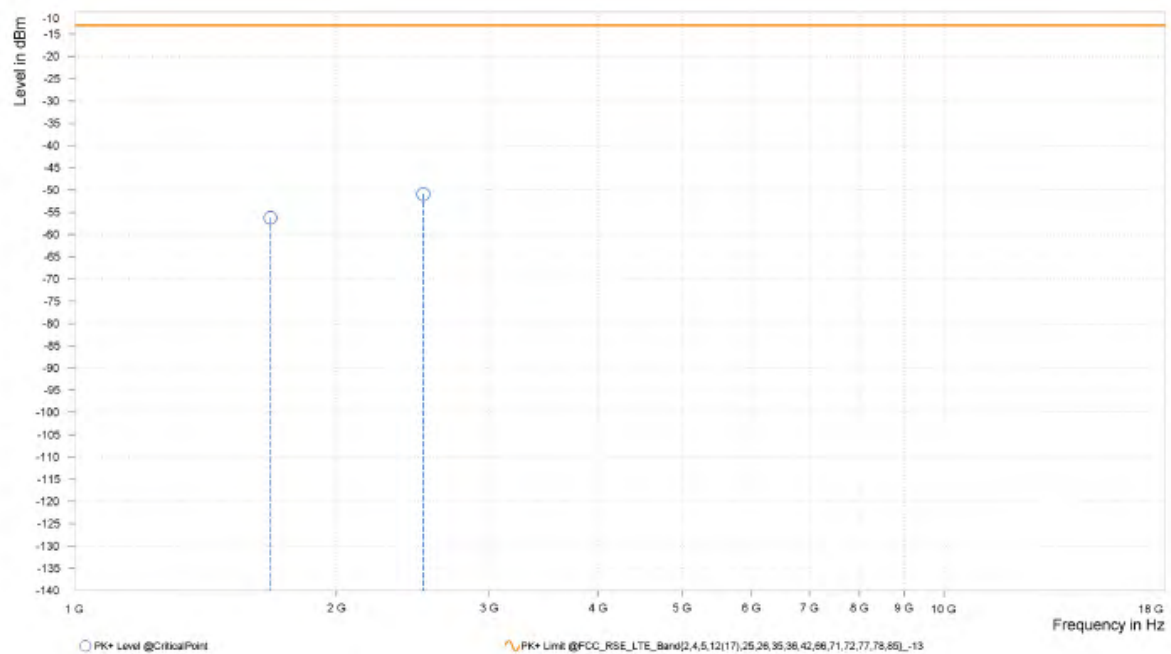


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MODE	TX channel 20600	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,679.000	-56.23	-13.00	43.23	13.78	V	355.8	1.00
3	2,518.500	-50.96	-13.00	37.96	20.32	V	1.7	2.00

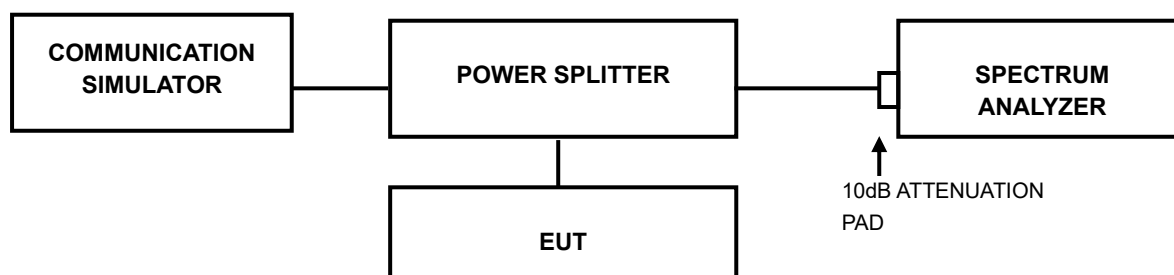


3.7 PEAK TO AVERAGE RATIO

3.7.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

3.7.2 TEST SETUP



3.7.3 TEST PROCEDURES

1. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.



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3.7.4 TEST RESULTS

Please Refer to Appendix Of this test report.



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4 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



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5 INFORMATION ON THE TESTING LABORATORIES

We, Huarui 7layers High Technology (Suzhou) Co., Ltd., were founded in 2020 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Suzhou EMC/RF Lab:

Tel: +86 (0557) 368 1008



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6 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.



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7 APPENDIX

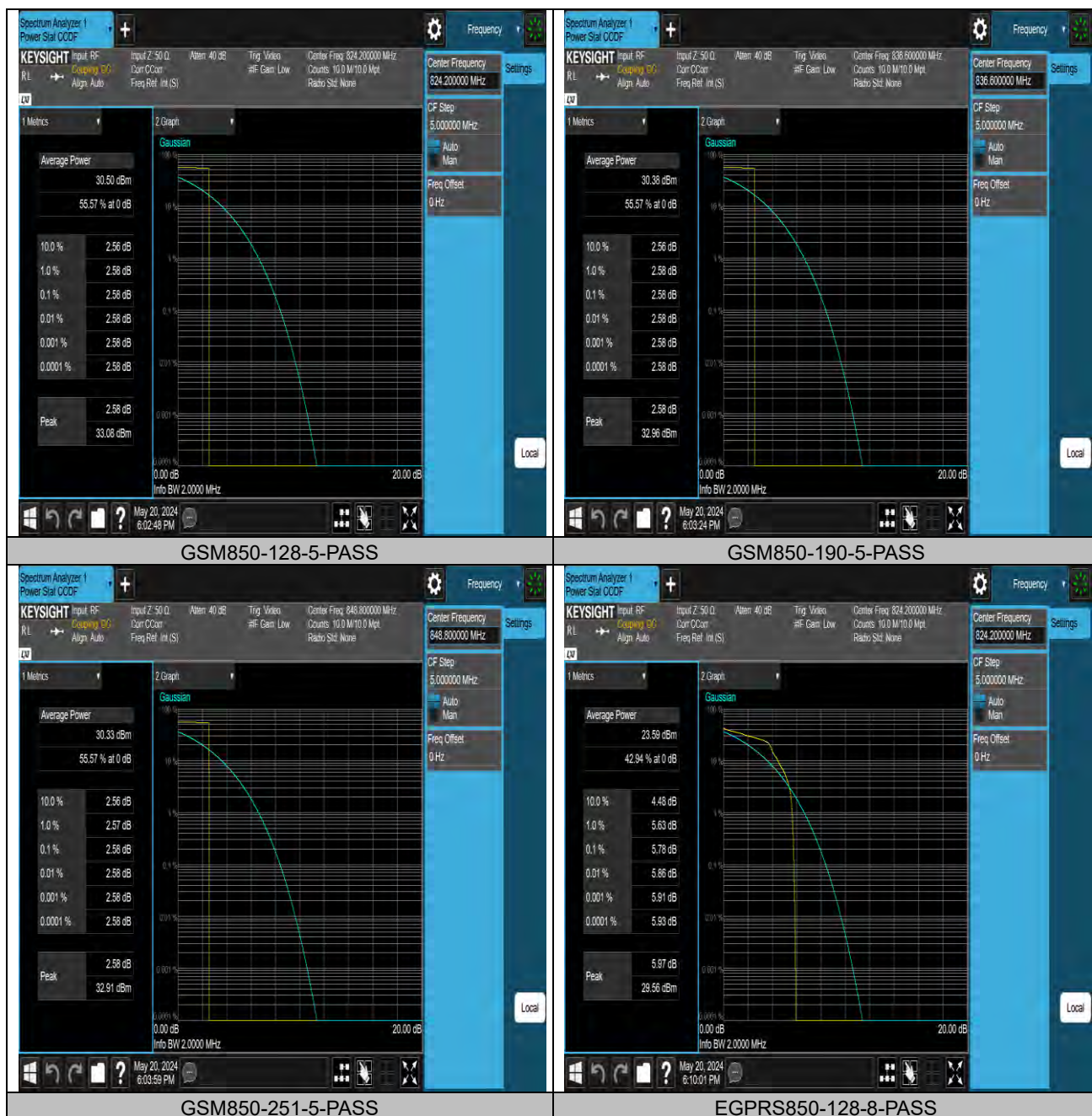
GSM850

PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	2.58	13	PASS
GSM850	190	2.58	13	PASS
GSM850	251	2.58	13	PASS
EGPRS850	128	5.78	13	PASS
EGPRS850	190	5.76	13	PASS
EGPRS850	251	5.76	13	PASS

Test Graphs





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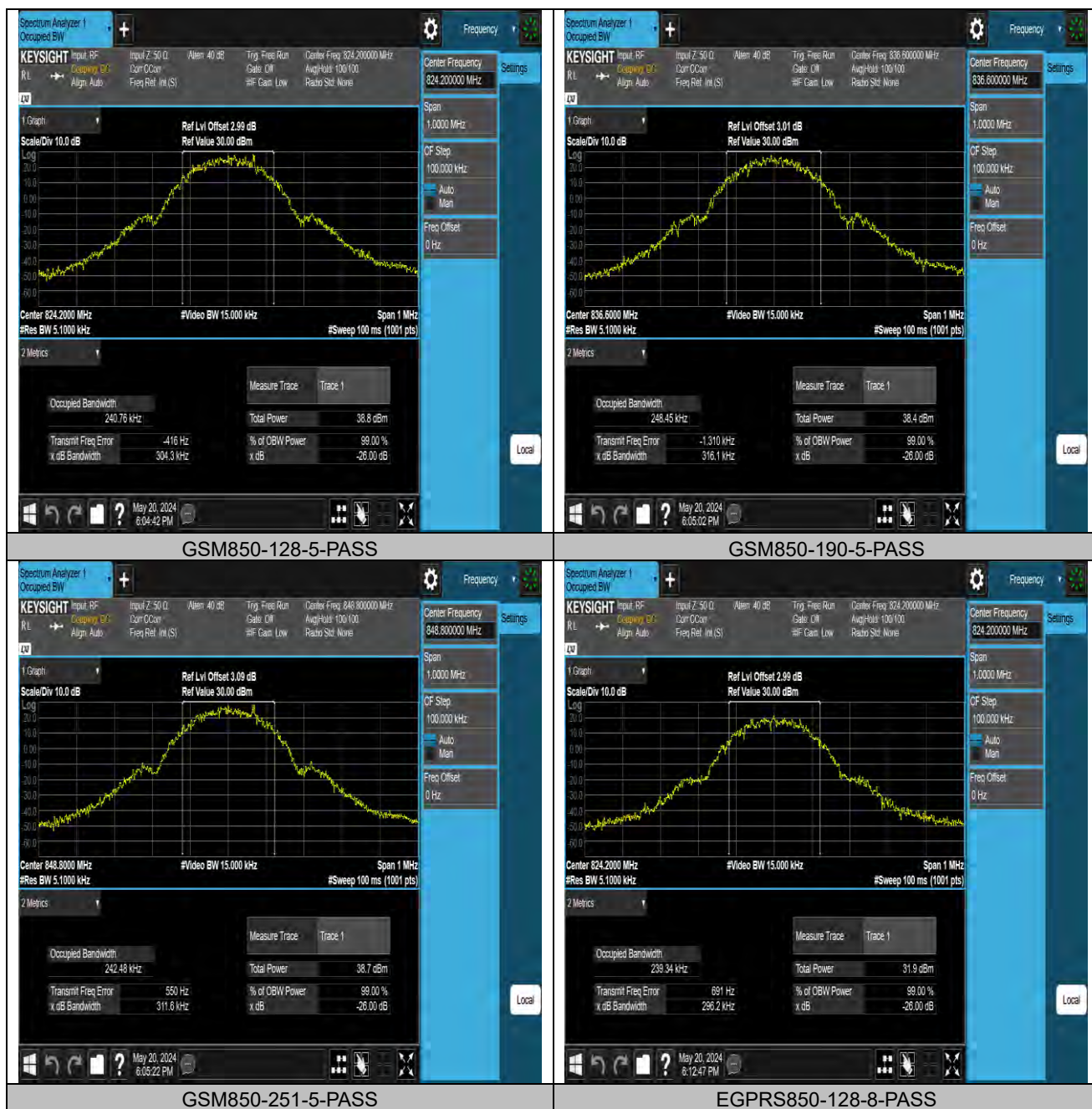


26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.24076	0.3043	---	PASS
GSM850	190	0.24845	0.3161	---	PASS
GSM850	251	0.24248	0.3116	---	PASS
EGPRS850	128	0.23934	0.2962	---	PASS
EGPRS850	190	0.24803	0.3082	---	PASS
EGPRS850	251	0.24988	0.3010	---	PASS

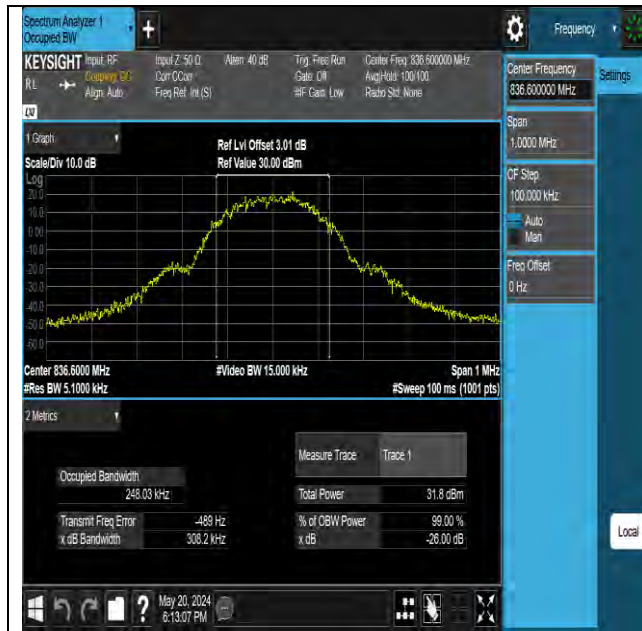
Test Graphs





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EGPRS850-190-8-PASS



EGPRS850-251-8-PASS



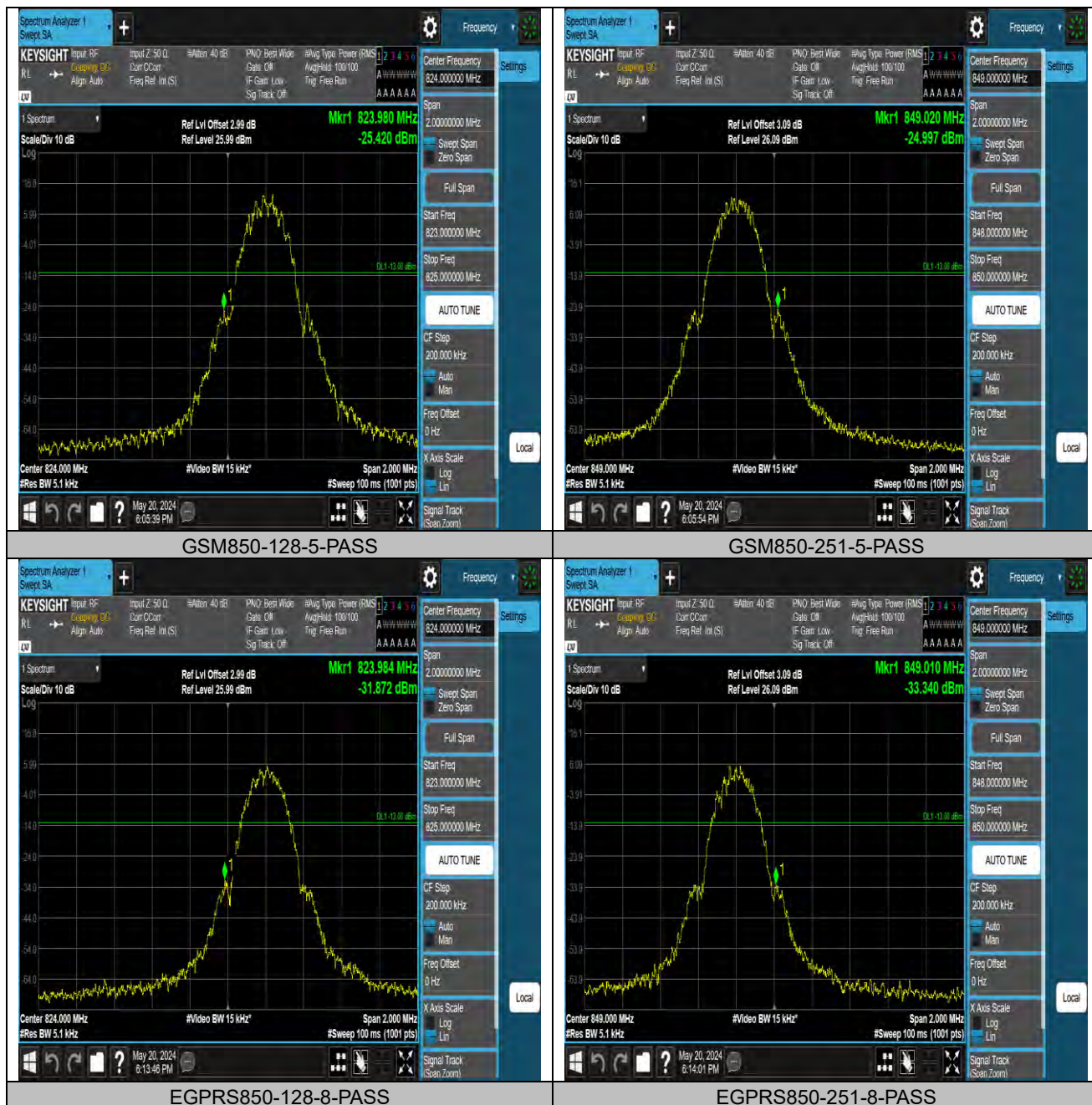
Test Report No.: PSU-NQN2405090215RF01

BAND EDGE

Test Result

Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	823.98	-25.42	-13	PASS
GSM850	251	849.02	-25.00	-13	PASS
EGPRS850	128	823.98	-31.87	-13	PASS
EGPRS850	251	849.01	-33.34	-13	PASS

Test Graphs



CONDUCTED SPURIOUS EMISSION

Test Result

Band	Channel	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	30~1000MHz	925.02	-49.39	-13	PASS
GSM850	128	1000~10000MHz	3844.9	-41.81	-13	PASS
GSM850	190	30~1000MHz	968.28	-49.39	-13	PASS
GSM850	190	1000~10000MHz	3848.5	-41.82	-13	PASS
GSM850	251	30~1000MHz	691.44	-49.51	-13	PASS
GSM850	251	1000~10000MHz	3828.25	-41.66	-13	PASS
EGPRS850	128	30~1000MHz	991.46	-49.5	-13	PASS
EGPRS850	128	1000~10000MHz	3836.35	-41.64	-13	PASS
EGPRS850	190	30~1000MHz	987.49	-49.46	-13	PASS
EGPRS850	190	1000~10000MHz	3839.05	-41.73	-13	PASS
EGPRS850	251	30~1000MHz	960.33	-49.36	-13	PASS
EGPRS850	251	1000~10000MHz	3828.7	-41.63	-13	PASS

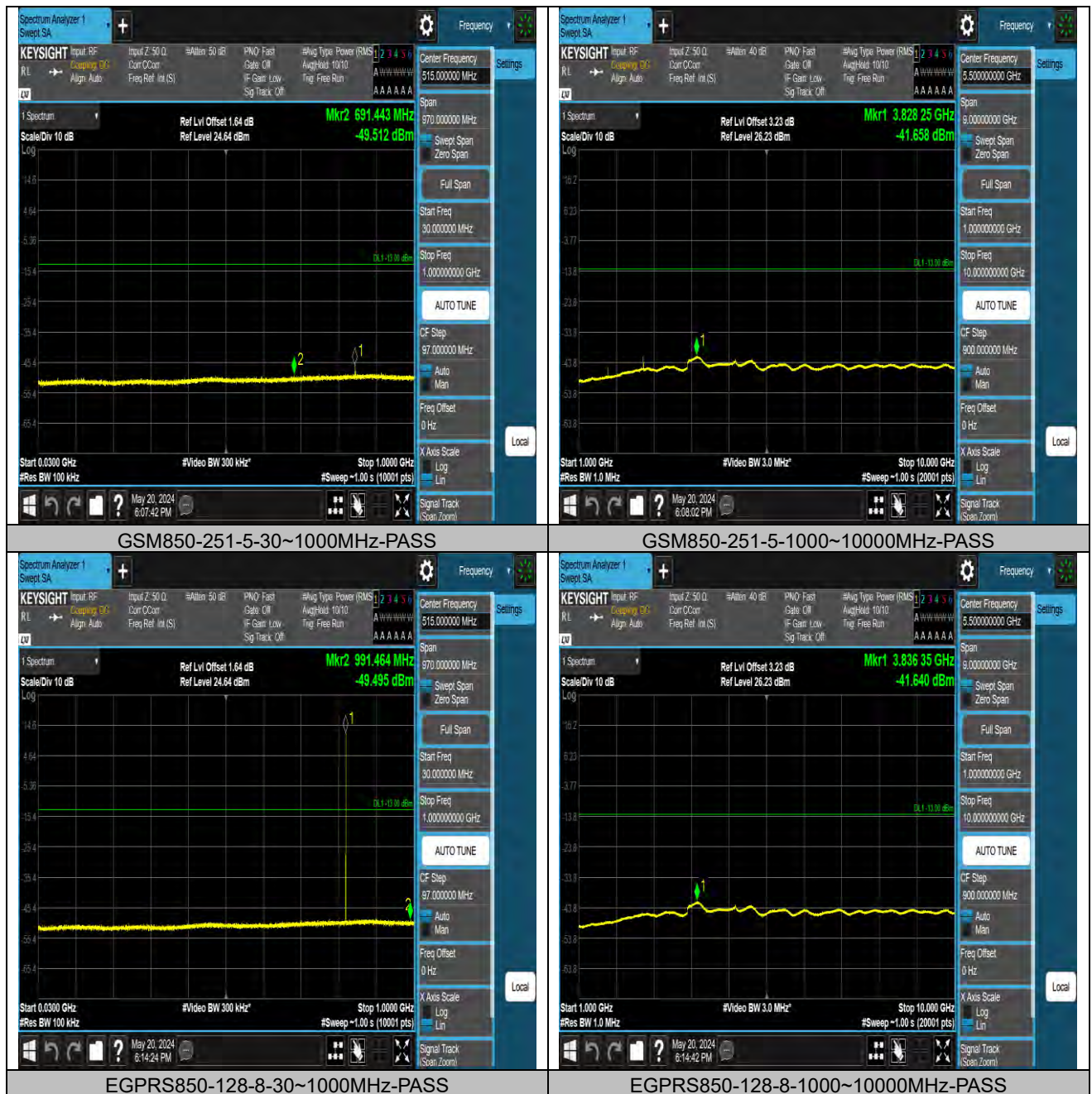
Test Graphs





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FREQUENCY STABILITY

Test Result

Voltage									
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
GSM850	128	VN	NT	-730.00	-0.885707	824.0771	---	824-849	PASS
GSM850	128	VL	NT	-300.00	-0.363989	824.077405	---	824-849	PASS
GSM850	128	VH	NT	130.00	0.157729	824.078035	---	824-849	PASS
GSM850	251	VN	NT	50.00	0.058907	---	848.92176	824-849	PASS
GSM850	251	VL	NT	340.00	0.400566	---	848.92221	824-849	PASS
GSM850	251	VH	NT	440.00	0.518379	---	848.923245	824-849	PASS

Temperature									
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
GSM850	128	NV	-30	20.00	0.024266	824.07865	---	824-849	PASS
GSM850	128	NV	-20	680.00	0.825042	824.07841	---	824-849	PASS
GSM850	128	NV	-10	-320.00	-0.388255	824.07972	---	824-849	PASS
GSM850	128	NV	0	-350.00	-0.424654	824.0795	---	824-849	PASS
GSM850	128	NV	10	1740.00	2.111138	824.080095	---	824-849	PASS
GSM850	128	NV	20	740.00	0.897840	824.07867	---	824-849	PASS
GSM850	128	NV	30	-80.00	-0.097064	824.077325	---	824-849	PASS
GSM850	128	NV	40	640.00	0.776511	824.07899	---	824-849	PASS
GSM850	128	NV	50	-100.00	-0.121330	824.07772	---	824-849	PASS
GSM850	251	NV	-30	20.00	0.023563	---	848.92103	824-849	PASS
GSM850	251	NV	-20	30.00	0.035344	---	848.92246	824-849	PASS
GSM850	251	NV	-10	280.00	0.329877	---	848.92218	824-849	PASS
GSM850	251	NV	0	370.00	0.435910	---	848.92244	824-849	PASS



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GSM850	251	NV	10	-450.00	-0.53016 0	---	848.9208 1	824-849	PASS
GSM850	251	NV	20	410.00	0.483035	---	848.9223 15	824-849	PASS
GSM850	251	NV	30	790.00	0.930726	---	848.9220 25	824-849	PASS
GSM850	251	NV	40	210.00	0.247408	---	848.9216 9	824-849	PASS
GSM850	251	NV	50	300.00	0.353440	---	848.9228 15	824-849	PASS



Test Report No.: PSU-NQN2405090215RF01

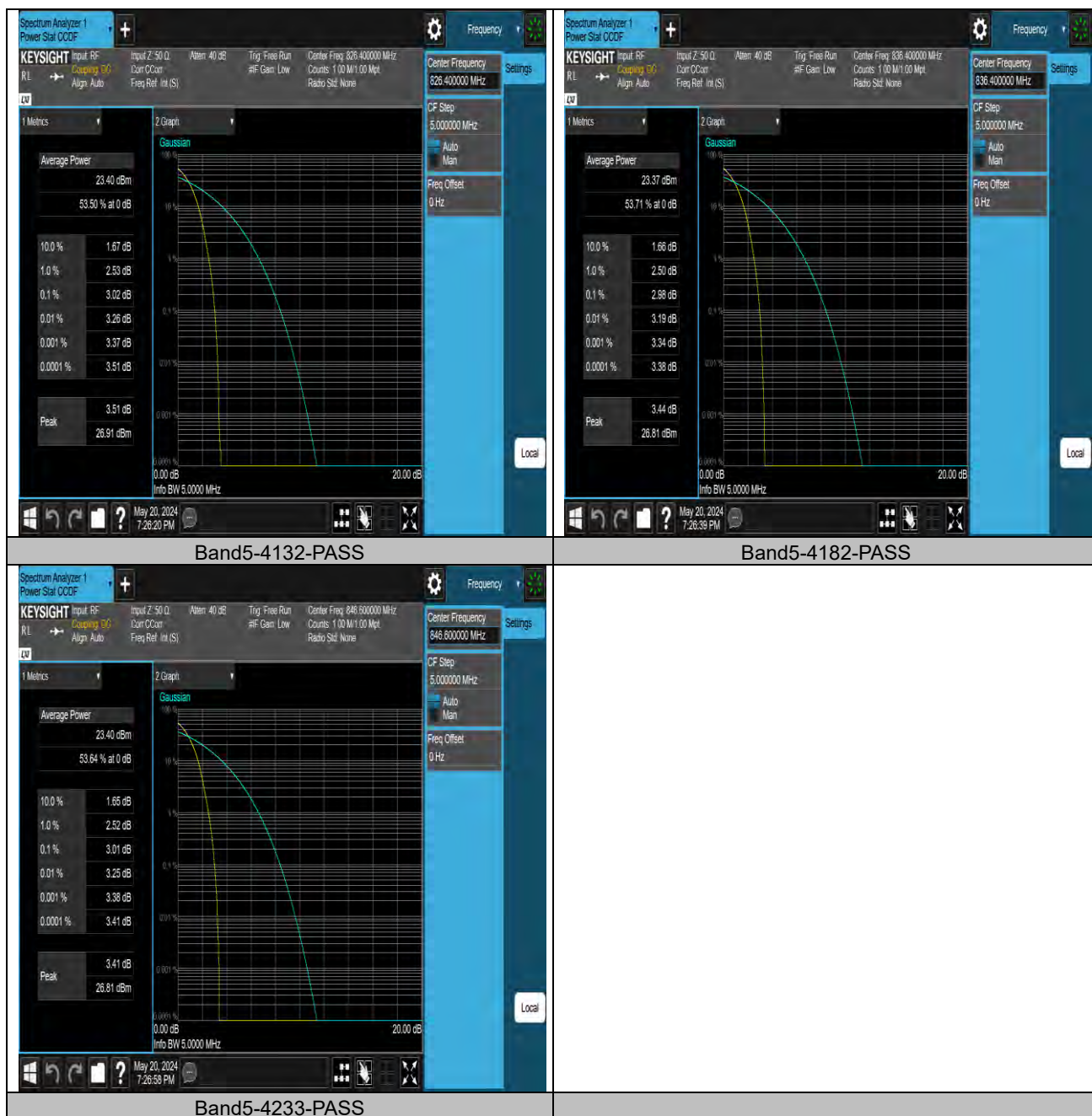
WCMDA BAND5

PEAK-TO-AVERAGE RATIO

Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band5	4132	3.02	13	PASS
Band5	4182	2.98	13	PASS
Band5	4233	3.01	13	PASS

Test Graphs

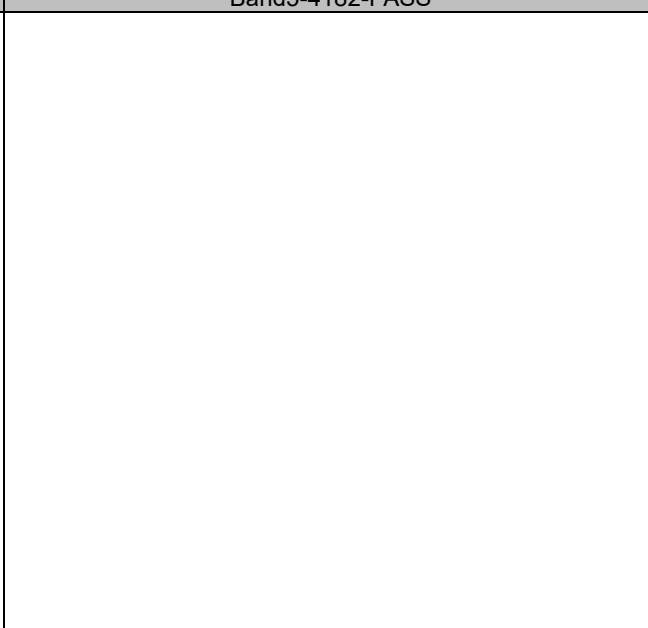


26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band5	4132	4.1530	4.673	---	PASS
Band5	4182	4.1380	4.666	---	PASS
Band5	4233	4.1451	4.674	---	PASS

Test Graphs





Test Report No.: PSU-NQN2405090215RF01

BAND EDGE

Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band5	4132	823.93	-33.16	-13	PASS
Band5	4233	849.08	-33.05	-13	PASS

Test Graphs

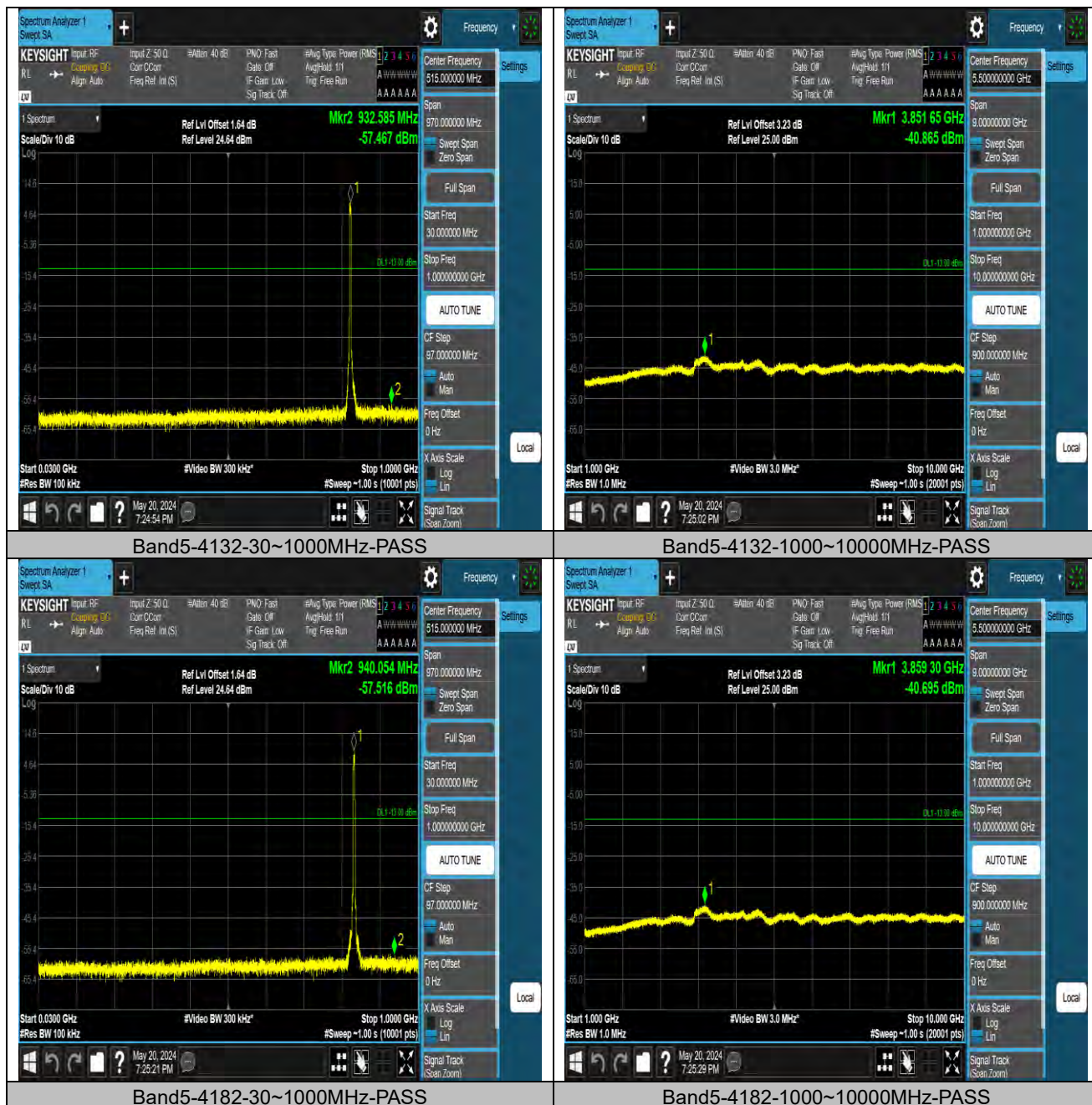


CONDUCTED SPURIOUS EMISSION

Test Result

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band5	4132	30~1000MHz	932.59	-57.47	-13	PASS
Band5	4132	1000~10000MHz	3851.65	-40.87	-13	PASS
Band5	4182	30~1000MHz	940.05	-57.52	-13	PASS
Band5	4182	1000~10000MHz	3859.3	-40.7	-13	PASS
Band5	4233	30~1000MHz	716.18	-57.1	-13	PASS
Band5	4233	1000~10000MHz	3855.7	-41.05	-13	PASS

Test Graphs





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FREQUENCY STABILITY

Test Result

Voltage									
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
Band5	4132	VN	NT	-1091.07	-1.3203	824.32749	---	824-849	PASS
Band5	4132	VL	NT	-1070.24	-1.2951	824.33019	---	824-849	PASS
Band5	4132	VH	NT	-1235.89	-1.4955	824.32967	---	824-849	PASS
Band5	4233	VN	NT	-1031.92	-1.2189	---	848.67275	824-849	PASS
Band5	4233	VL	NT	-886.83	-1.0475	---	848.6756	824-849	PASS
Band5	4233	VH	NT	-796.79	-0.9412	---	848.67215	824-849	PASS

Temperature									
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
Band5	4132	NV	-30	961.85	1.1639	824.32889	---	824-849	PASS
Band5	4132	NV	-20	862.33	1.0435	824.32782	---	824-849	PASS
Band5	4132	NV	-10	-994.25	-1.2031	824.32774	---	824-849	PASS
Band5	4132	NV	0	805.45	0.9747	824.32606	---	824-849	PASS
Band5	4132	NV	10	1000.55	1.2107	824.32986	---	824-849	PASS
Band5	4132	NV	20	981.95	1.1882	824.32782	---	824-849	PASS
Band5	4132	NV	30	-1031.18	-1.2478	824.32862	---	824-849	PASS
Band5	4132	NV	40	725.72	0.8782	824.32758	---	824-849	PASS
Band5	4132	NV	50	-1027.03	-1.2428	824.3255	---	824-849	PASS
Band5	4233	NV	-30	615.87	0.7275	---	848.67003	824-849	PASS
Band5	4233	NV	-20	778.88	0.9200	---	848.67118	824-849	PASS
Band5	4233	NV	-10	-789.99	-0.9331	---	848.67624	824-849	PASS
Band5	4233	NV	0	-1058.67	-1.2505	---	848.68094	824-849	PASS
Band5	4233	NV	10	832.56	0.9834	---	848.67	824-849	PASS



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							47	9	
Band5	4233	NV	20	805.46	0.9514	---	848.67 505	824-84 9	PASS
Band5	4233	NV	30	695.34	0.8213	---	848.66 777	824-84 9	PASS
Band5	4233	NV	40	-849.67	-1.0036	---	848.67 047	824-84 9	PASS
Band5	4233	NV	50	-864.61	-1.0213	---	848.67 747	824-84 9	PASS

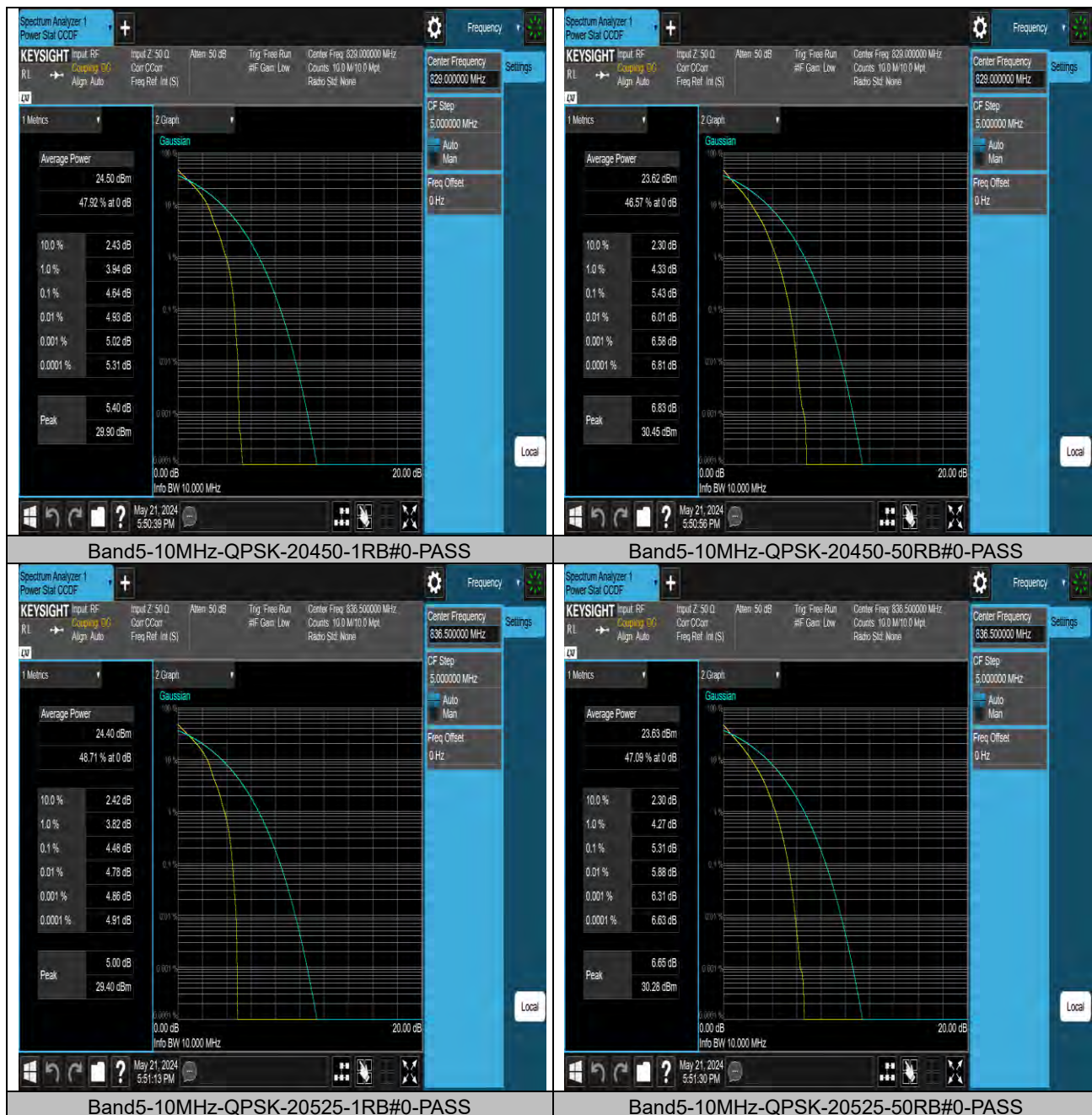
LTE BAND5

PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	1RB#0	4.64	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.43	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	4.48	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.31	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	4.49	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.51	13	PASS

Test Graphs





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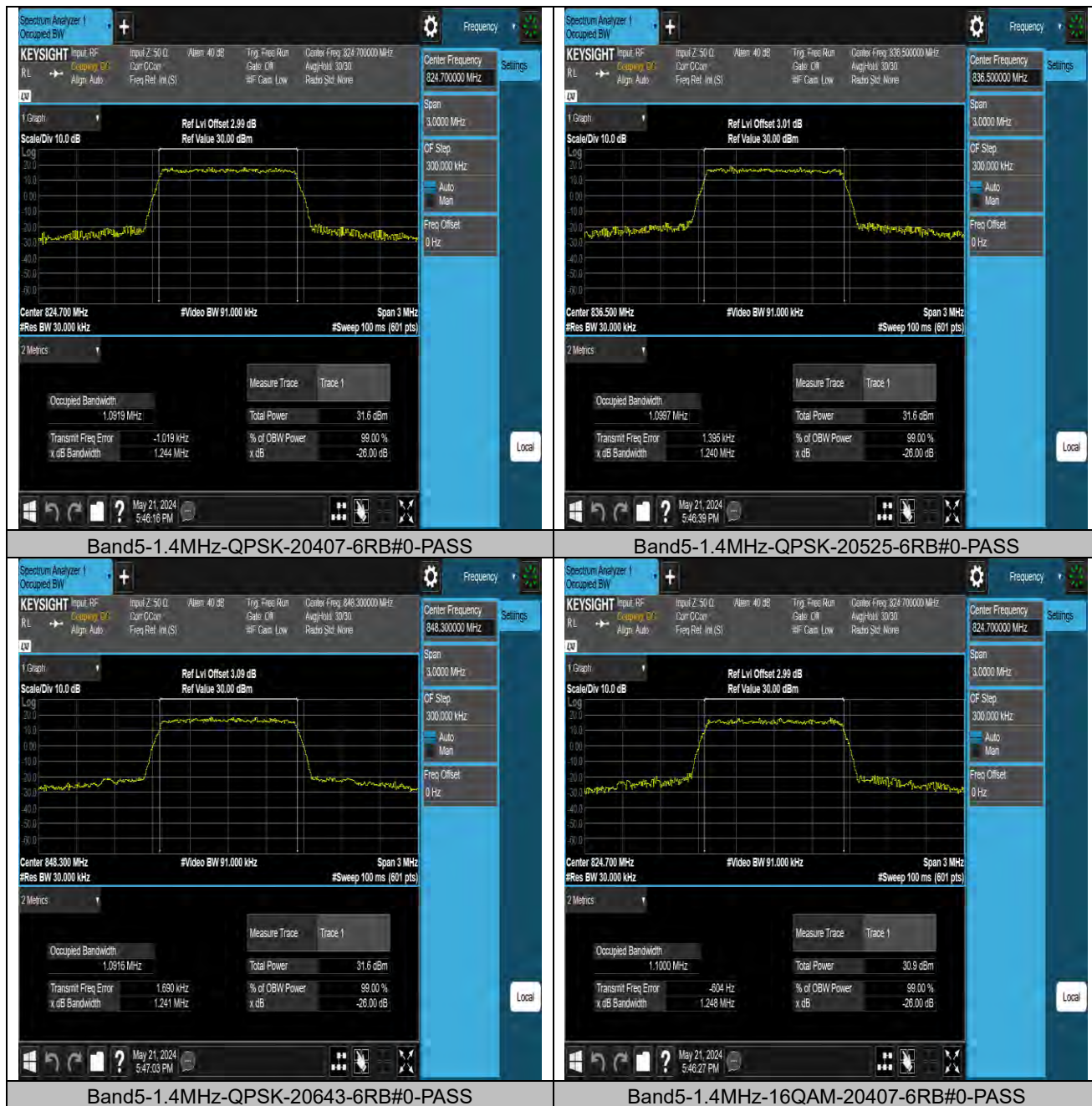


26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.0919	1.244	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.0997	1.240	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.0916	1.241	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.1000	1.248	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.0992	1.248	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.0906	1.247	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.7026	3.028	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.7045	3.033	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.6954	2.997	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.7010	3.030	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.7039	3.047	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.7129	3.037	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.5294	5.015	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.5028	4.998	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.5204	5.000	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.5024	4.975	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.4991	4.974	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.5094	4.998	PASS
Band5	10MHz	QPSK	20450	50RB#0	9.0017	9.898	PASS
Band5	10MHz	QPSK	20525	50RB#0	9.0393	9.949	PASS
Band5	10MHz	QPSK	20600	50RB#0	9.0024	9.917	PASS
Band5	10MHz	16QAM	20450	50RB#0	9.0109	9.926	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.9986	9.906	PASS
Band5	10MHz	16QAM	20600	50RB#0	9.0110	9.931	PASS

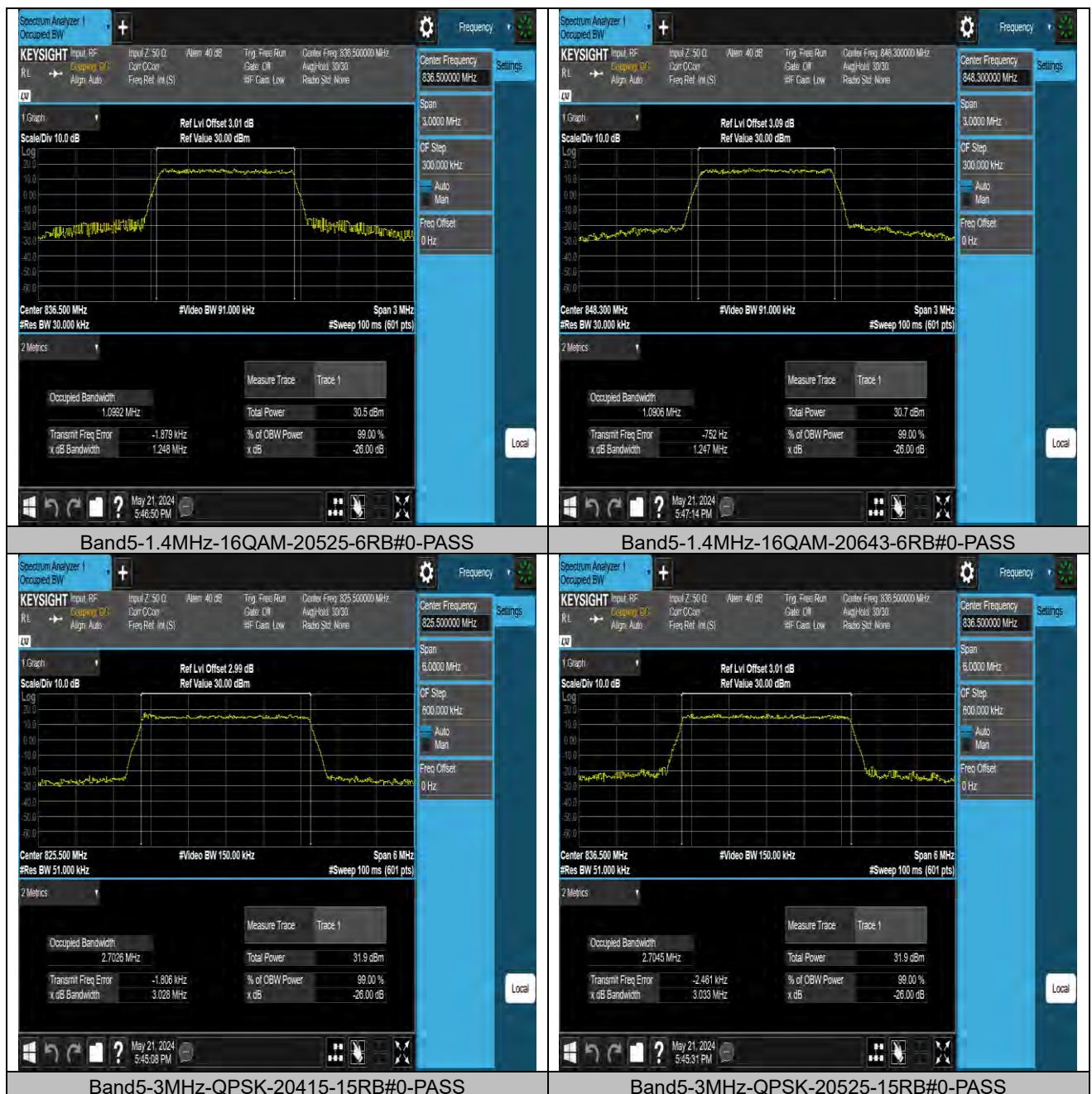
Test Graphs





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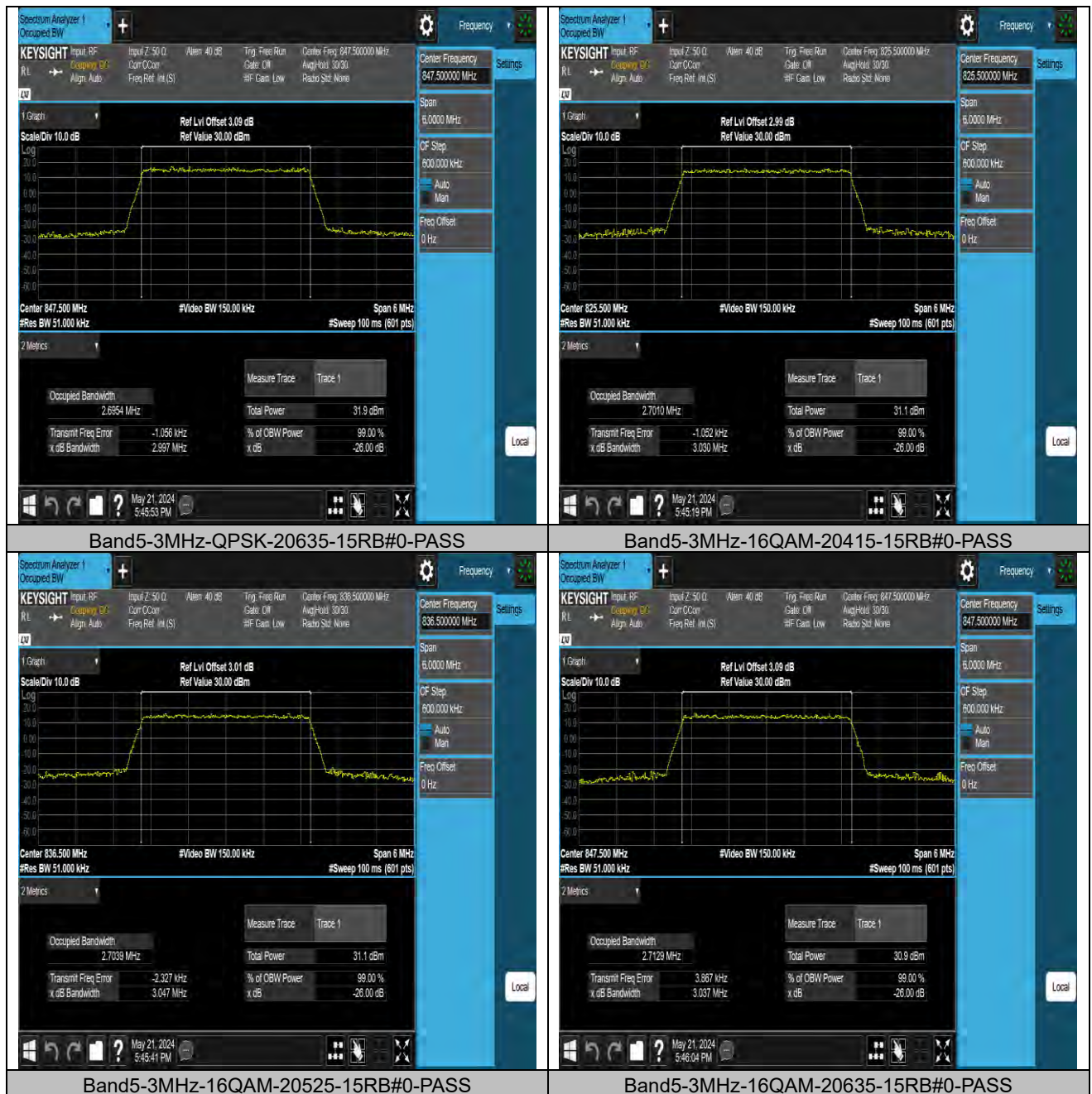
Test Report No.: PSU-NQN2405090215RF01





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VERITAS

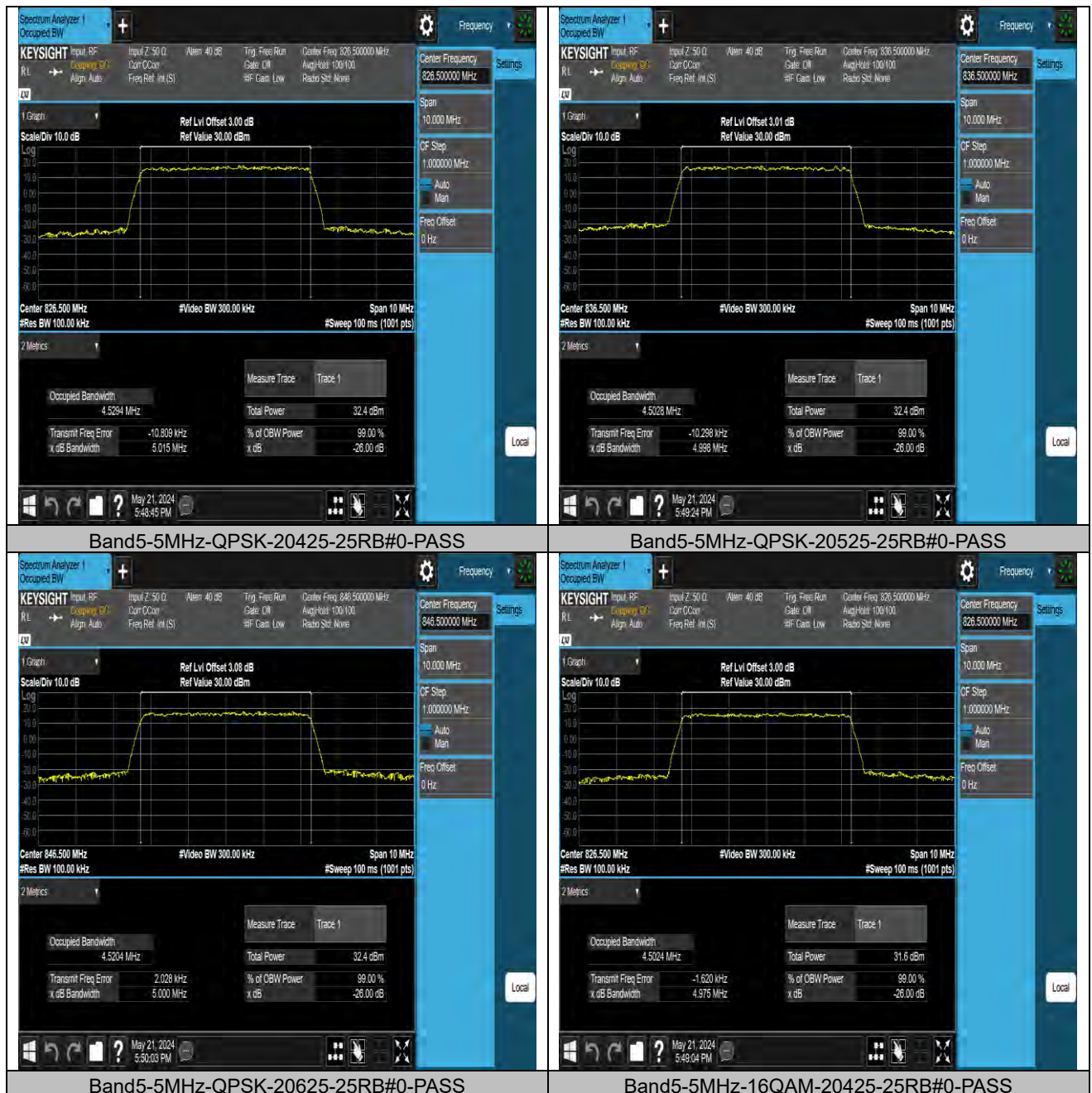
Test Report No.: PSU-NQN2405090215RF01





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VERITAS

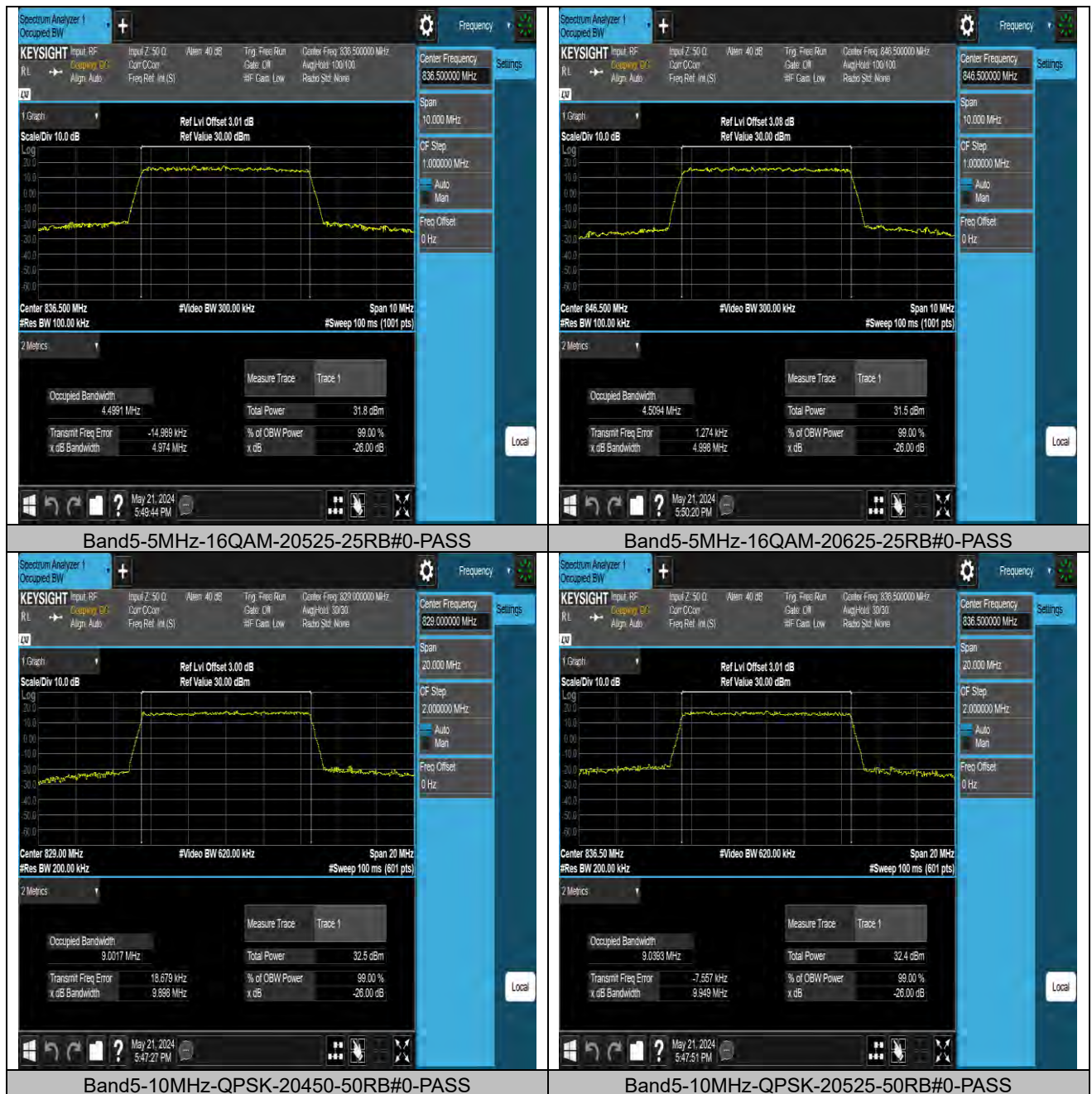
Test Report No.: PSU-NQN2405090215RF01





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VERITAS

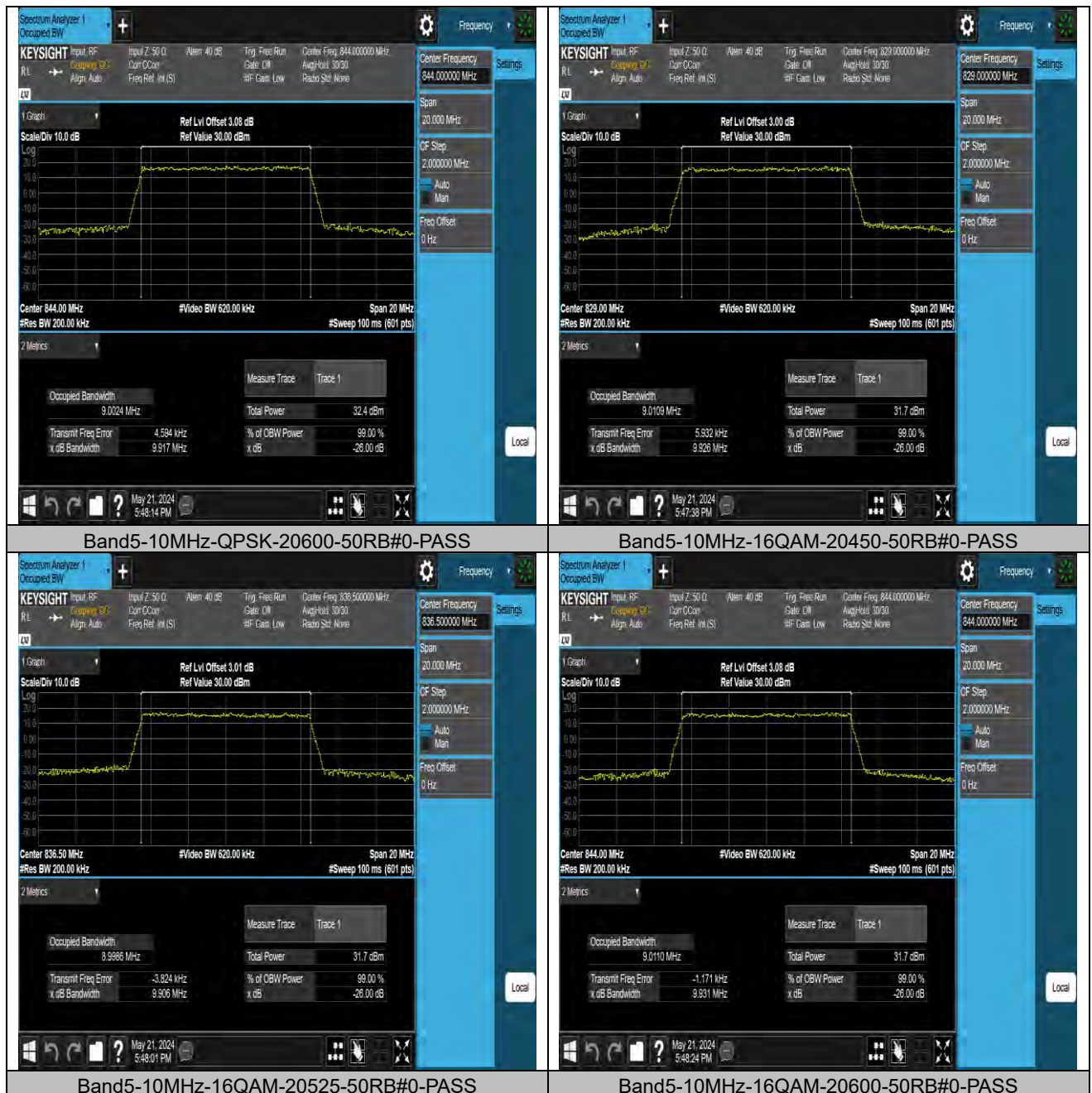
Test Report No.: PSU-NQN2405090215RF01





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Test Report No.: PSU-NQN2405090215RF01

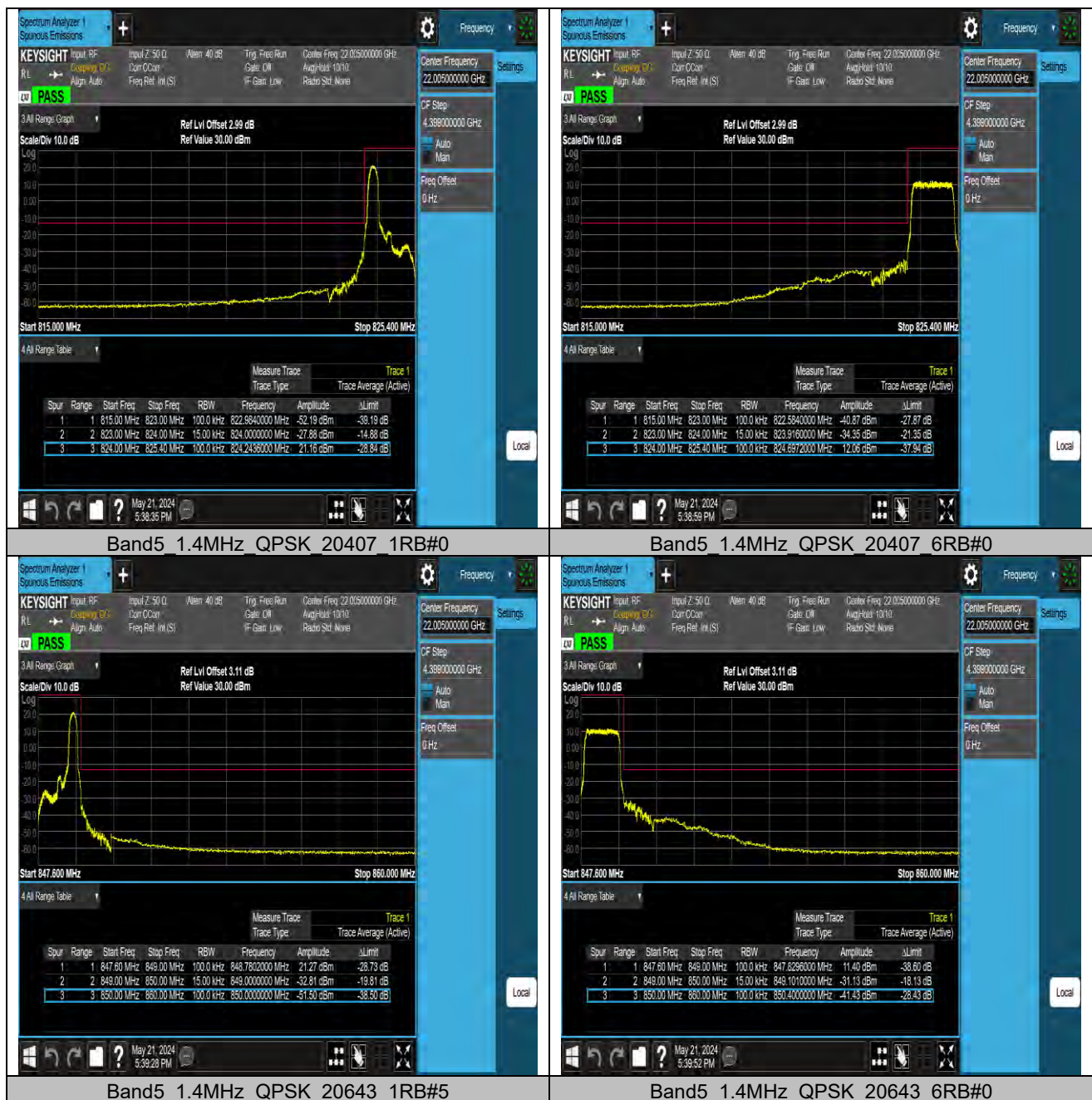


BAND EDGE

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	-27.88	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	-34.35	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	-32.81	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	-31.13	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	-30.64	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	-36.26	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	-34.61	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	-31.81	PASS
Band5	3MHz	QPSK	20415	1RB#0	-18.50	PASS
Band5	3MHz	QPSK	20415	15RB#0	-28.38	PASS
Band5	3MHz	QPSK	20635	1RB#14	-19.11	PASS
Band5	3MHz	QPSK	20635	15RB#0	-28.76	PASS
Band5	3MHz	16QAM	20415	1RB#0	-17.28	PASS
Band5	3MHz	16QAM	20415	15RB#0	-28.66	PASS
Band5	3MHz	16QAM	20635	1RB#14	-17.35	PASS
Band5	3MHz	16QAM	20635	15RB#0	-28.61	PASS
Band5	5MHz	QPSK	20425	1RB#0	-25.60	PASS
Band5	5MHz	QPSK	20425	25RB#0	-34.82	PASS
Band5	5MHz	QPSK	20625	1RB#24	-25.52	PASS
Band5	5MHz	QPSK	20625	25RB#0	-33.81	PASS
Band5	5MHz	16QAM	20425	1RB#0	-27.08	PASS
Band5	5MHz	16QAM	20425	25RB#0	-34.95	PASS
Band5	5MHz	16QAM	20625	1RB#24	-26.48	PASS
Band5	5MHz	16QAM	20625	25RB#0	-33.47	PASS
Band5	10MHz	QPSK	20450	1RB#0	-34.57	PASS
Band5	10MHz	QPSK	20450	50RB#0	-36.92	PASS
Band5	10MHz	QPSK	20600	1RB#49	-34.82	PASS
Band5	10MHz	QPSK	20600	50RB#0	-35.76	PASS
Band5	10MHz	16QAM	20450	1RB#0	-34.05	PASS
Band5	10MHz	16QAM	20450	50RB#0	-37.32	PASS
Band5	10MHz	16QAM	20600	1RB#49	-34.76	PASS
Band5	10MHz	16QAM	20600	50RB#0	-36.25	PASS

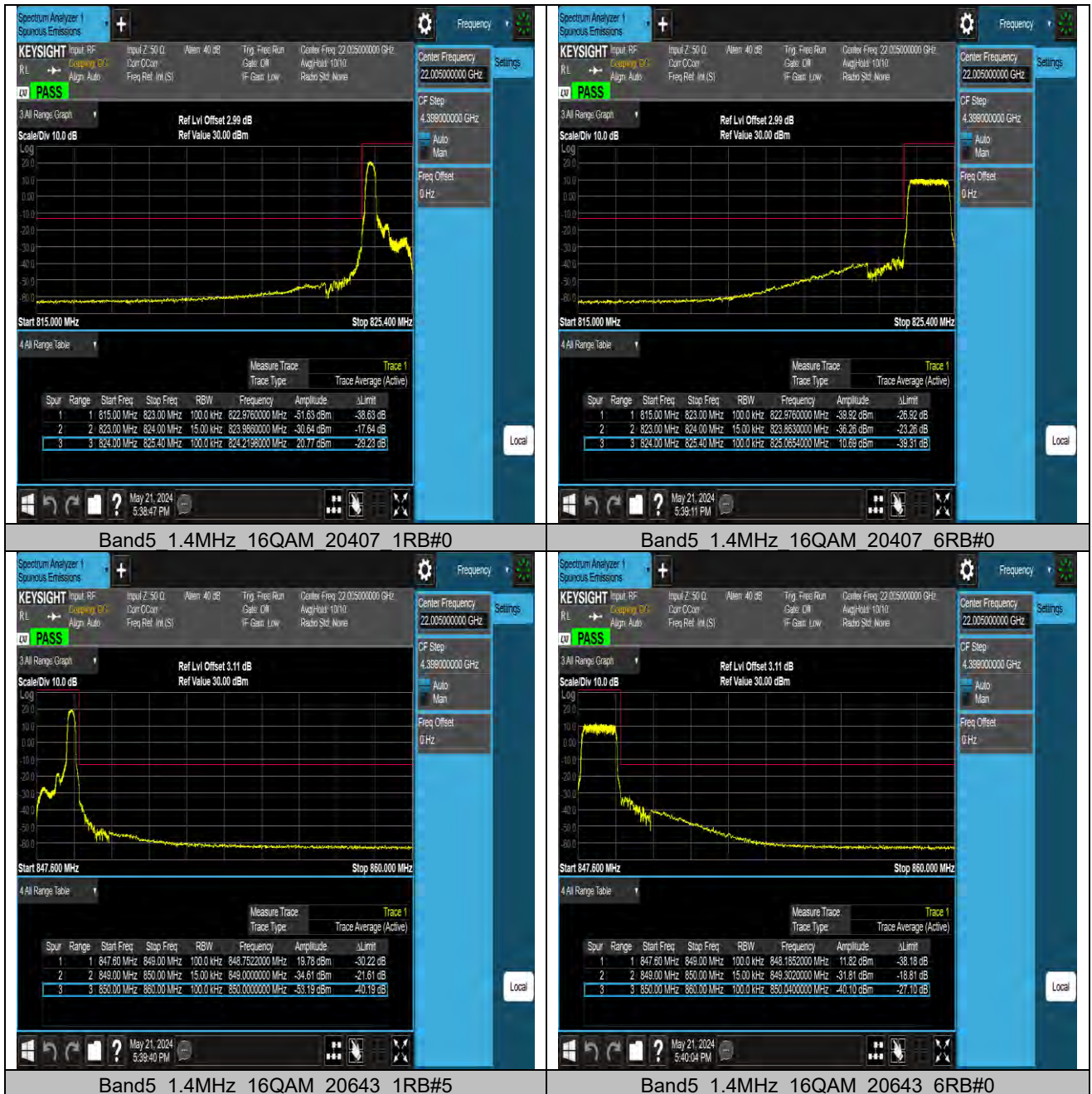
Test Graphs





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VERITAS

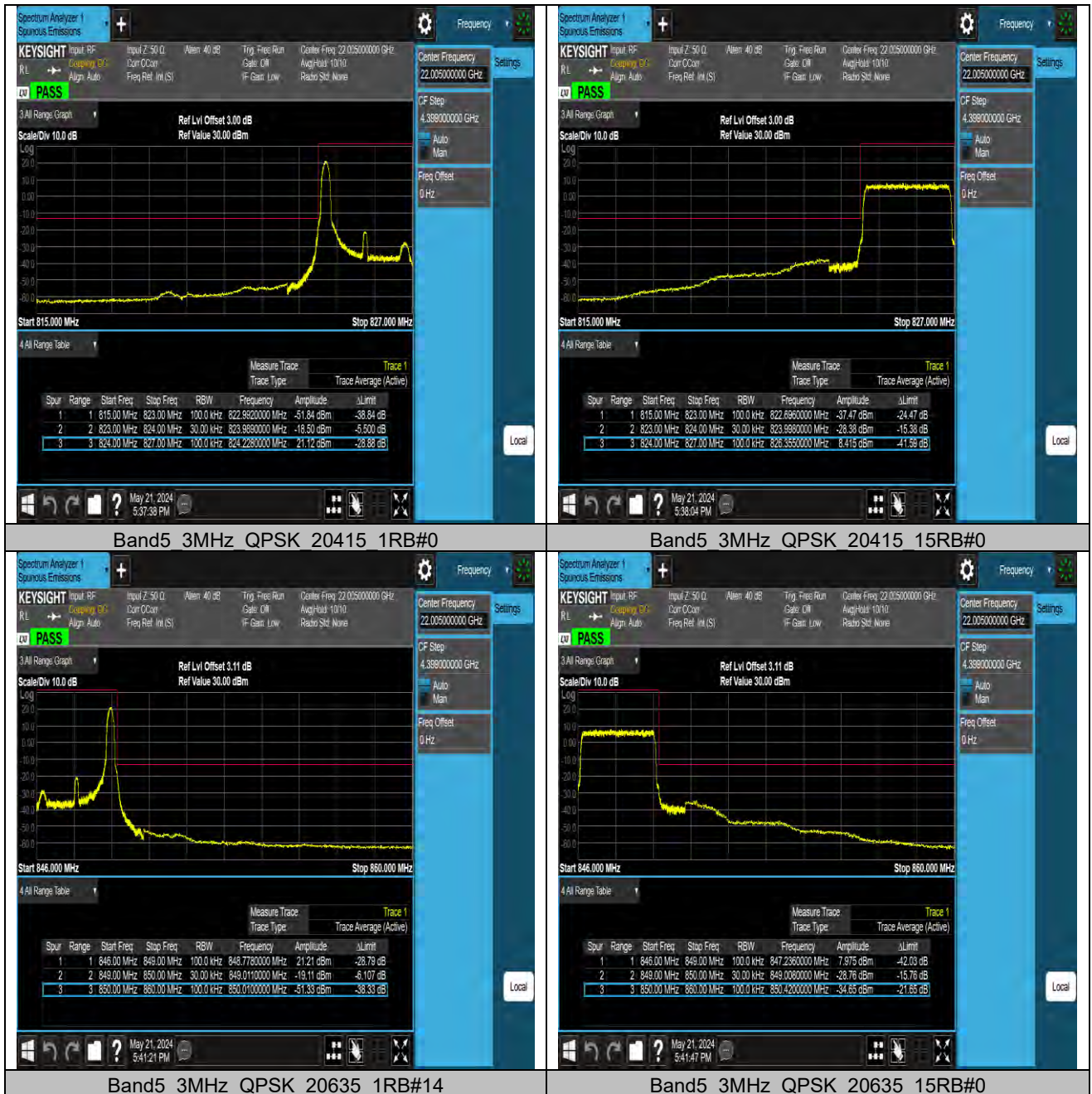
Test Report No.: PSU-NQN2405090215RF01





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VERITAS

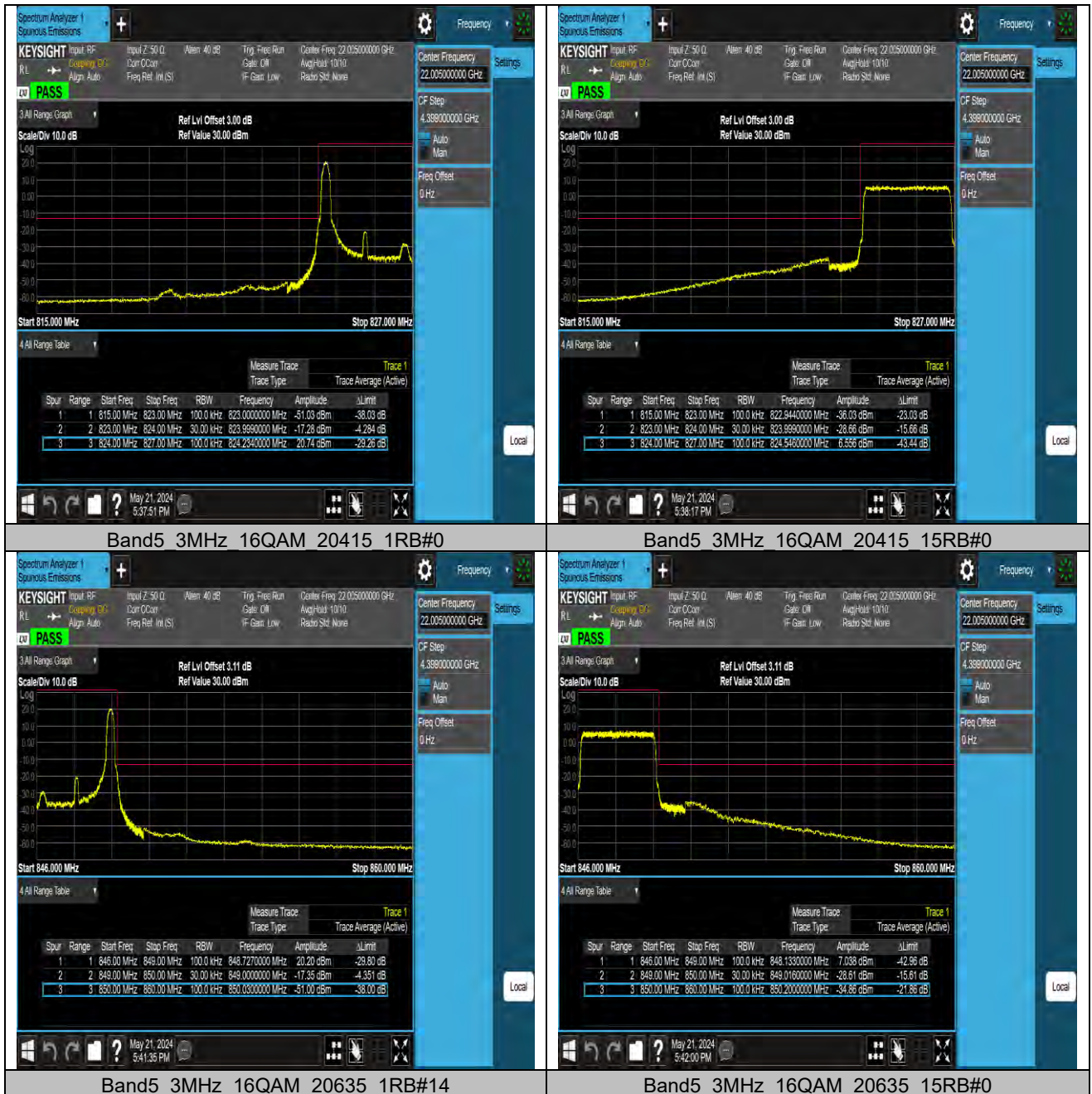
Test Report No.: PSU-NQN2405090215RF01





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VERITAS

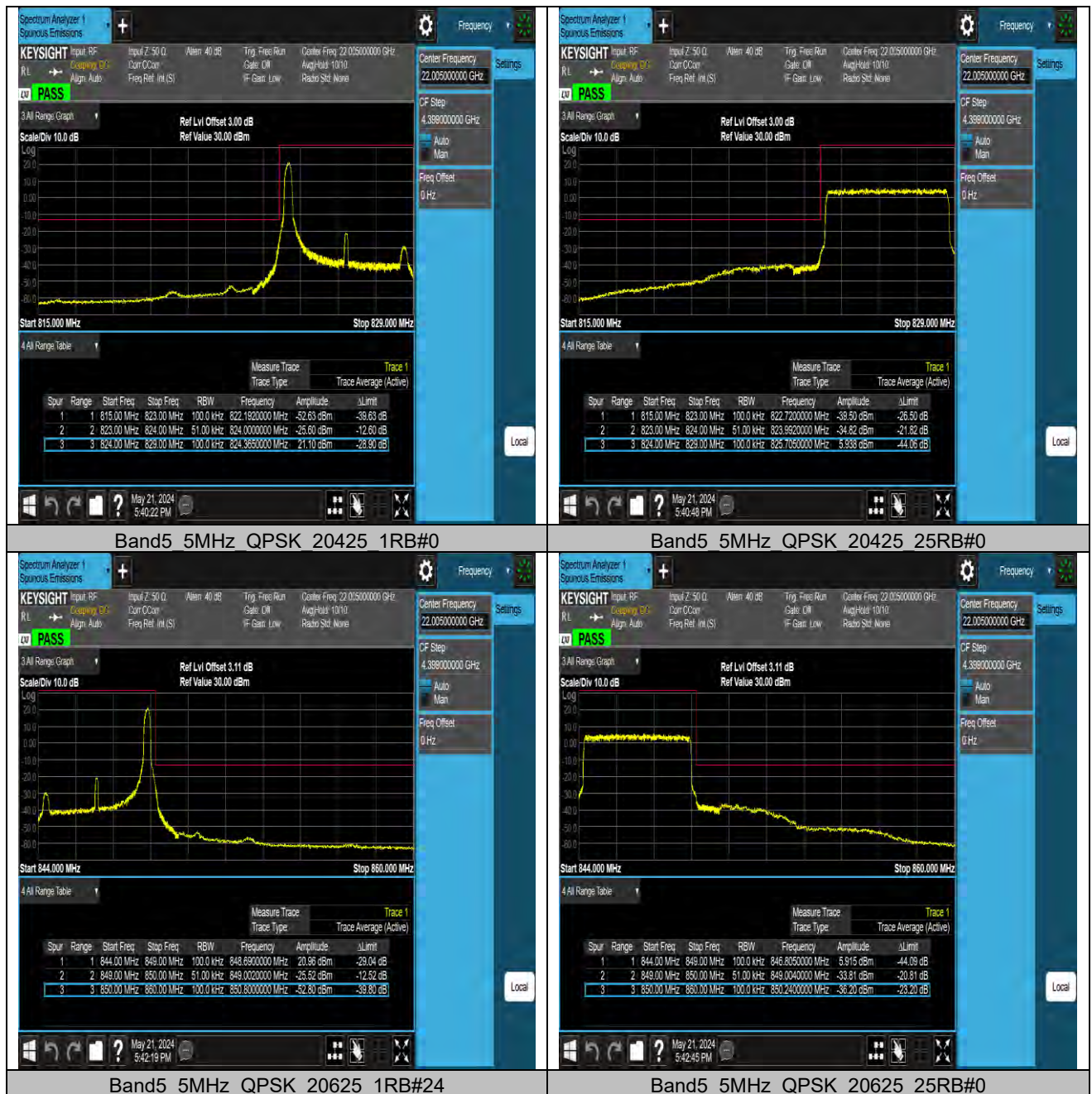
Test Report No.: PSU-NQN2405090215RF01





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VERITAS

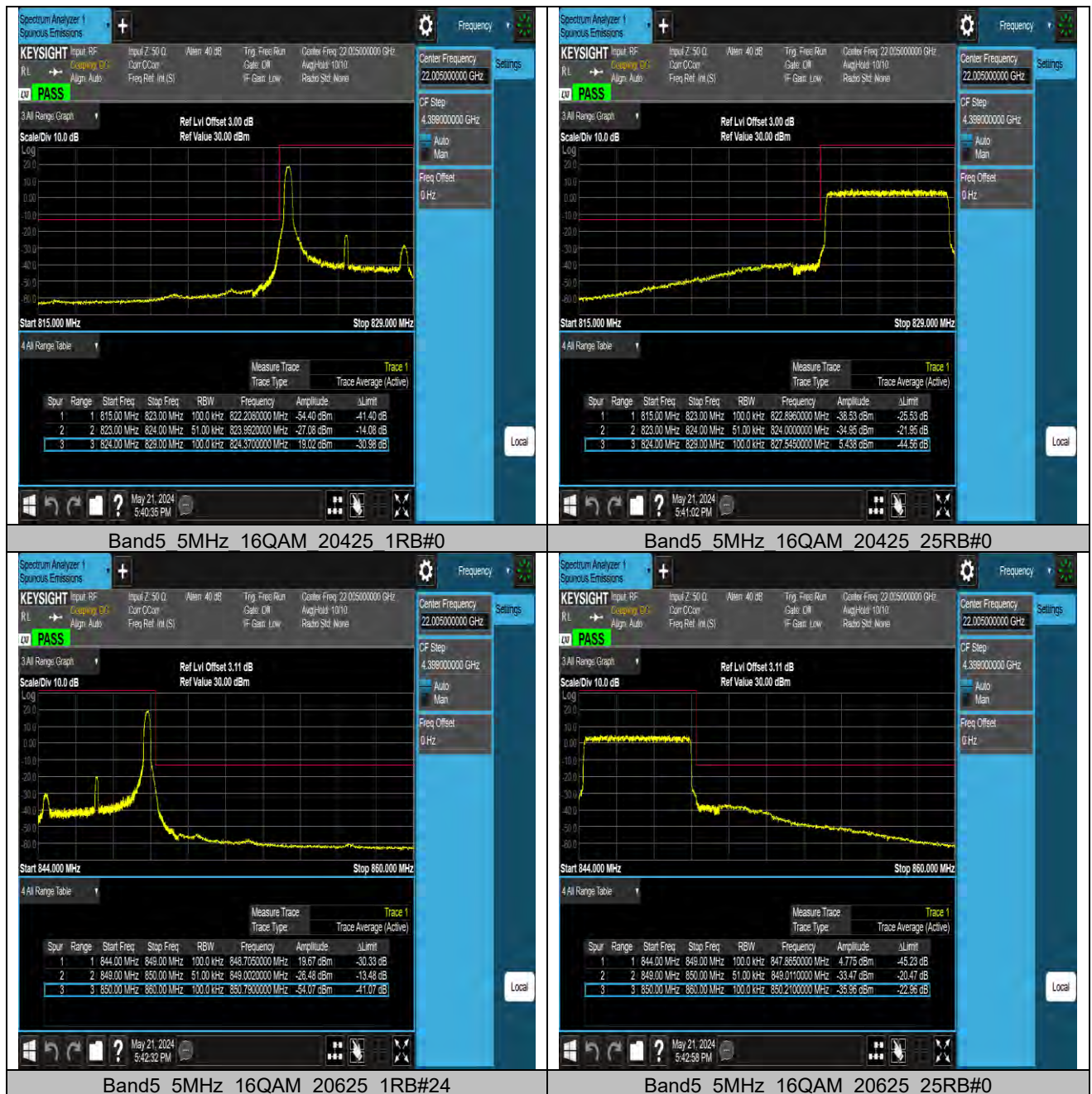
Test Report No.: PSU-NQN2405090215RF01





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VERITAS

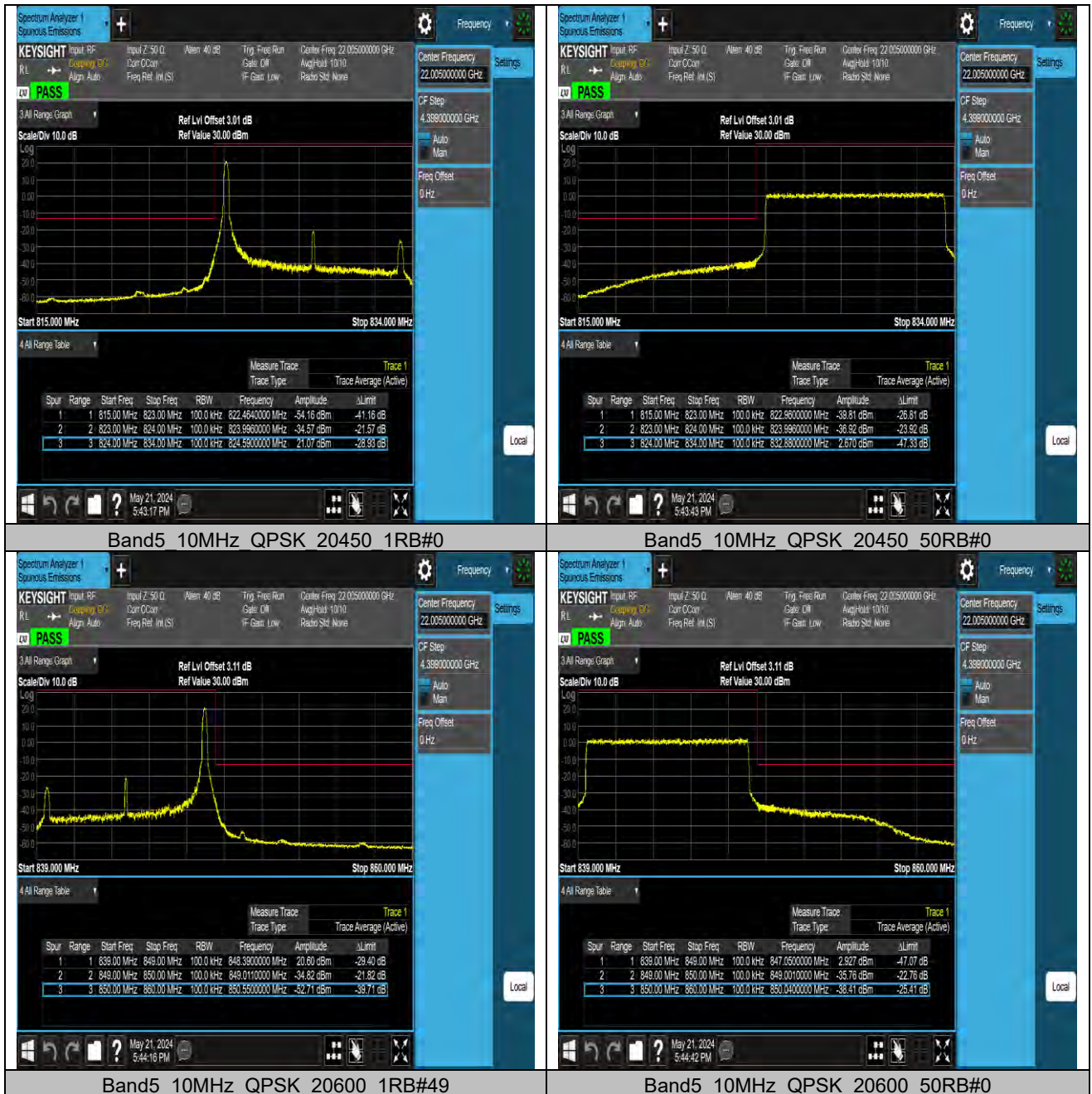
Test Report No.: PSU-NQN2405090215RF01





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VERITAS

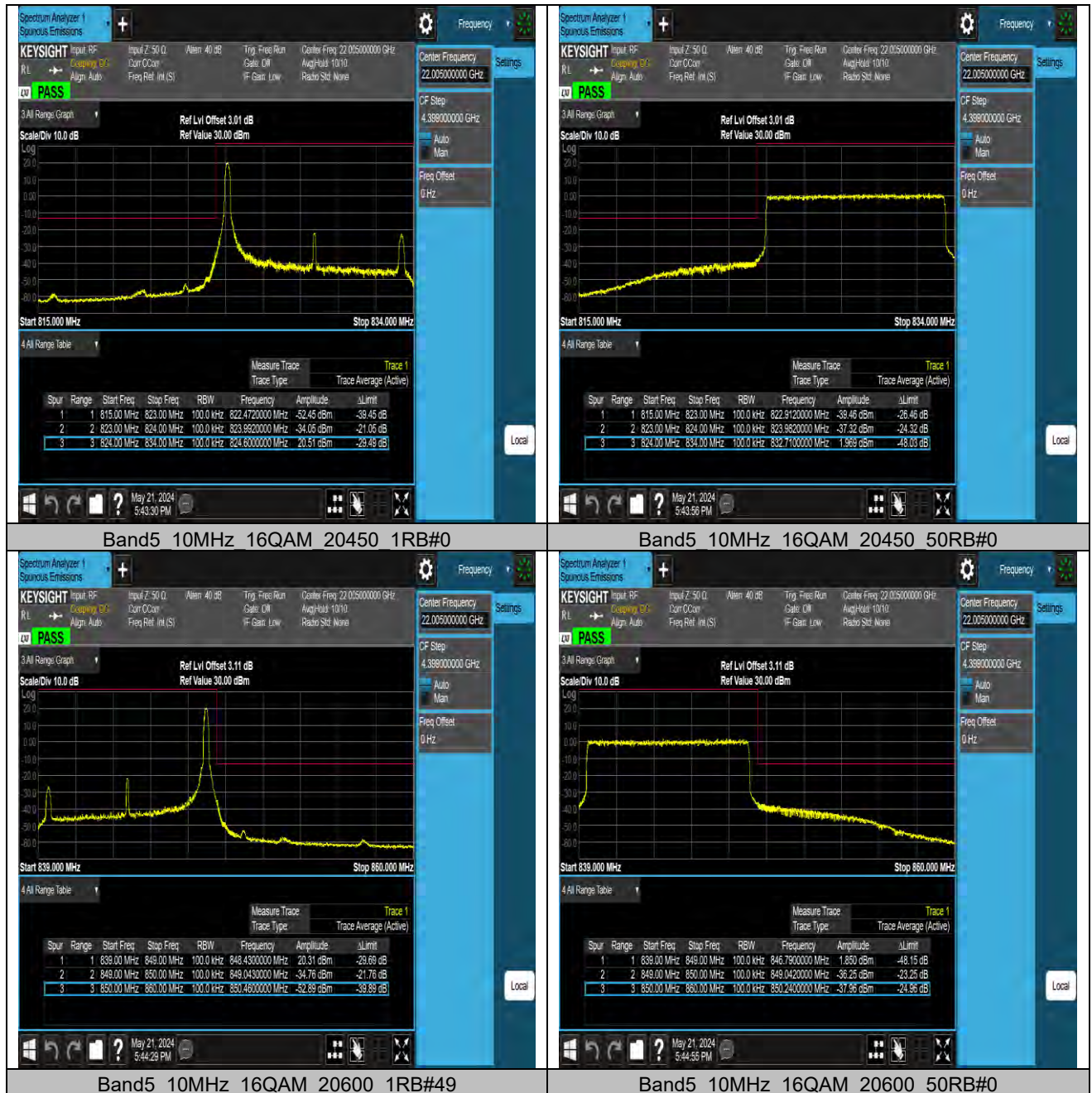
Test Report No.: PSU-NQN2405090215RF01





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VERITAS

Test Report No.: PSU-NQN2405090215RF01



CONDUCTED SPURIOUS EMISSION

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	30~1000	-54.35	PASS
Band5	1.4MHz	QPSK	20407	1RB#0	1000~10000	-38.34	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	30~1000	-55.22	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	1000~10000	-38.26	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	30~1000	-55.44	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	1000~10000	-38.40	PASS
Band5	3MHz	QPSK	20415	1RB#0	30~1000	-56.38	PASS
Band5	3MHz	QPSK	20415	1RB#0	1000~10000	-38.30	PASS
Band5	3MHz	QPSK	20525	1RB#0	30~1000	-55.27	PASS
Band5	3MHz	QPSK	20525	1RB#0	1000~10000	-38.30	PASS
Band5	3MHz	QPSK	20635	1RB#0	30~1000	-55.60	PASS
Band5	3MHz	QPSK	20635	1RB#0	1000~10000	-38.33	PASS
Band5	5MHz	QPSK	20425	1RB#0	30~1000	-57.06	PASS
Band5	5MHz	QPSK	20425	1RB#0	1000~10000	-38.33	PASS
Band5	5MHz	QPSK	20525	1RB#0	30~1000	-56.99	PASS
Band5	5MHz	QPSK	20525	1RB#0	1000~10000	-38.30	PASS
Band5	5MHz	QPSK	20625	1RB#0	30~1000	-56.88	PASS
Band5	5MHz	QPSK	20625	1RB#0	1000~10000	-38.42	PASS
Band5	10MHz	QPSK	20450	1RB#0	30~1000	-57.14	PASS
Band5	10MHz	QPSK	20450	1RB#0	1000~10000	-38.30	PASS
Band5	10MHz	QPSK	20525	1RB#0	30~1000	-57.20	PASS
Band5	10MHz	QPSK	20525	1RB#0	1000~10000	-38.39	PASS
Band5	10MHz	QPSK	20600	1RB#0	30~1000	-57.35	PASS
Band5	10MHz	QPSK	20600	1RB#0	1000~10000	-38.32	PASS



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VERITAS

Test Report No.: PSU-NQN2405090215RF01

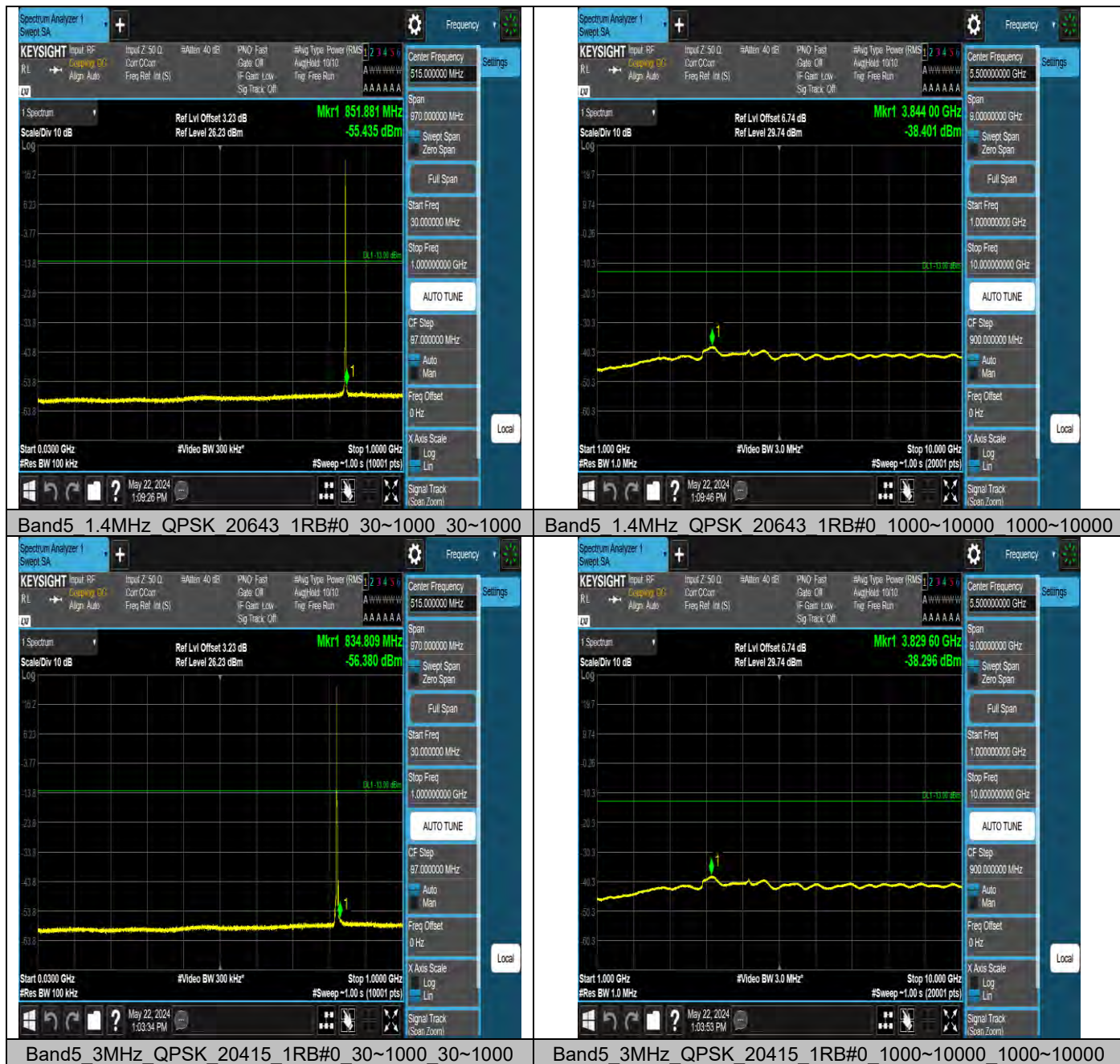
Test Graphs





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VERITAS

Test Report No.: PSU-NQN2405090215RF01





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Test Report No.: PSU-NQN2405090215RF01



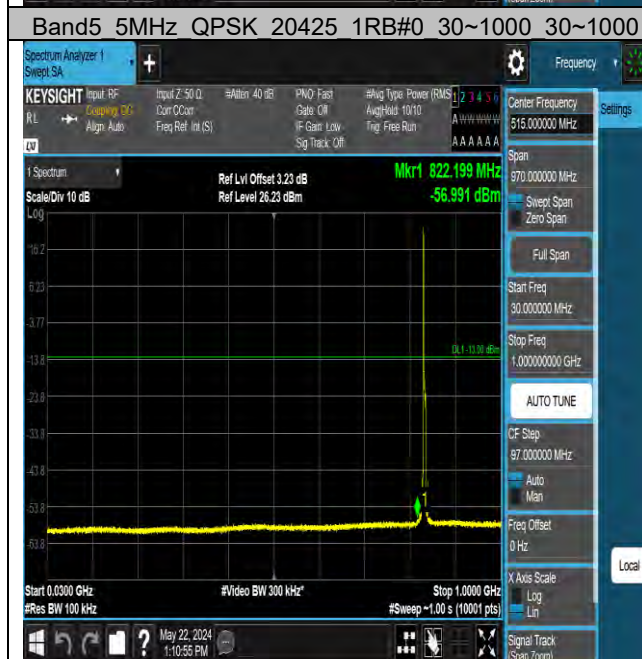
Band5 3MHz QPSK 20525 1RB#0 30~1000 30~1000

Band5 3MHz QPSK 20525 1RB#0 1000~10000 1000~10000



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VERITAS

Test Report No.: PSU-NQN2405090215RF01



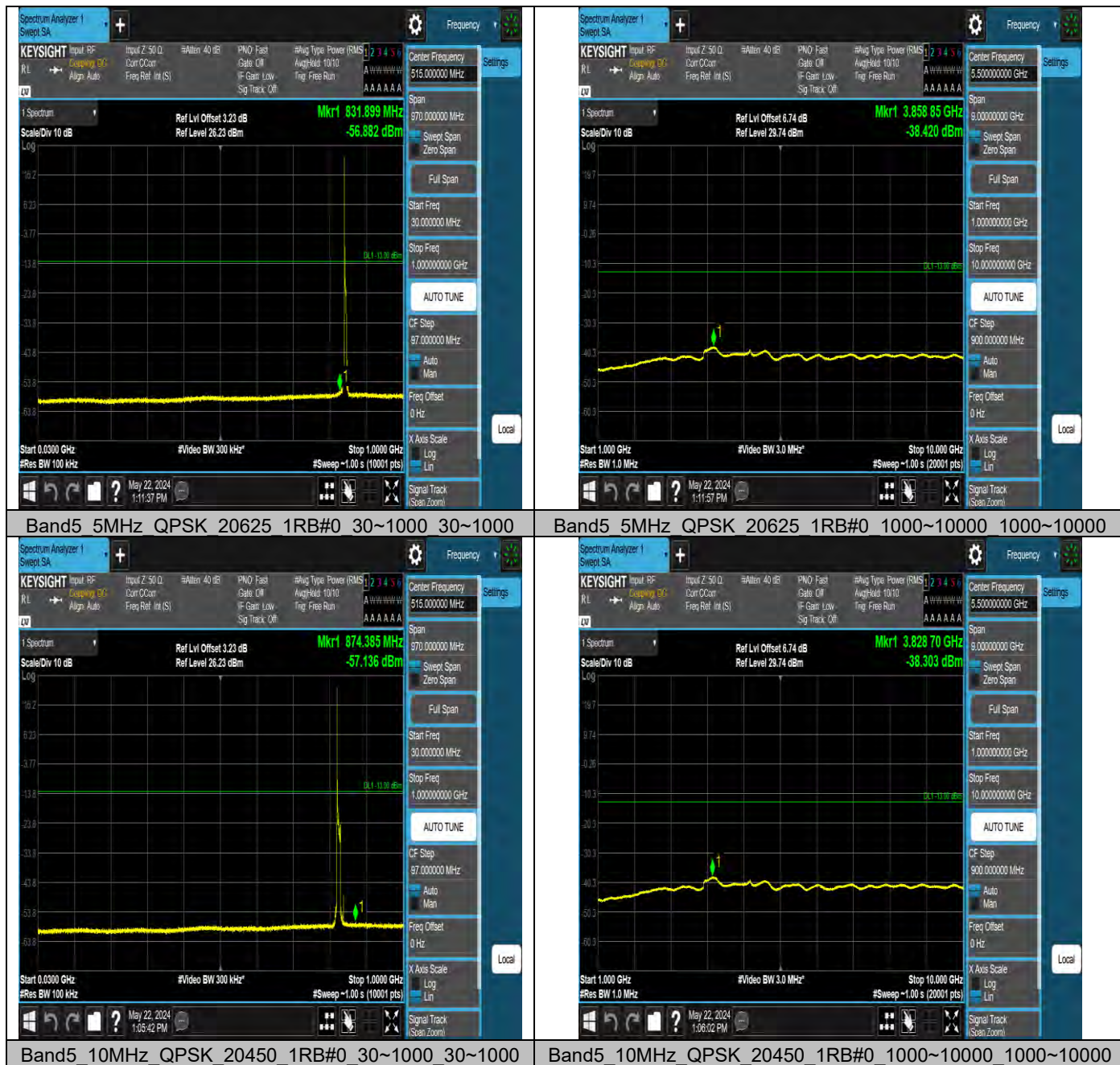
Band5 5MHz QPSK 20425 1RB#0 30~1000 30~1000

Band5 5MHz QPSK 20425 1RB#0 1000~10000 1000~10000



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VERITAS

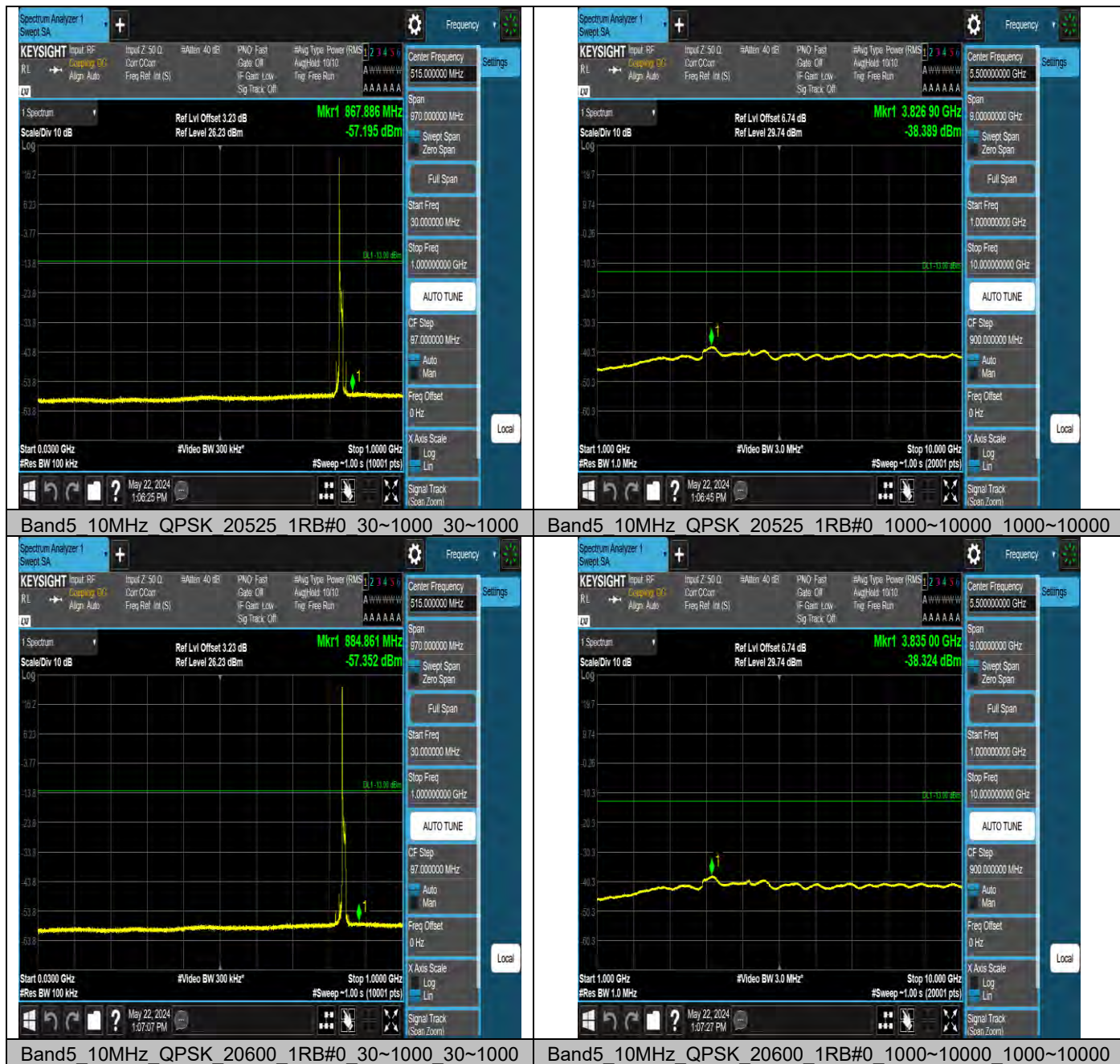
Test Report No.: PSU-NQN2405090215RF01





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Test Report No.: PSU-NQN2405090215RF01



FREQUENCY STABILITY

Test Result

Voltage												
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
Band5	10MHz	QPSK	20450	50RB #0	VN	NT	1892.35	2.28	824.53831	---	824-849	PASS
Band5	10MHz	QPSK	20450	50RB #0	VL	NT	1758.70	2.12	824.52969	---	824-849	PASS
Band5	10MHz	QPSK	20450	50RB #0	VH	NT	1633.04	1.97	824.52986	---	824-849	PASS
Band5	10MHz	QPSK	20600	50RB #0	VN	NT	1912.38	2.27	---	848.47683	824-849	PASS
Band5	10MHz	QPSK	20600	50RB #0	VL	NT	1909.80	2.26	---	848.47882	824-849	PASS
Band5	10MHz	QPSK	20600	50RB #0	VH	NT	1632.29	1.93	---	848.47977	824-849	PASS

Temperature												
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
Band5	10MHz	QPSK	20450	50RB #0	NV	-30	1952.84	2.36	824.52539	---	824-849	PASS
Band5	10MHz	QPSK	20450	50RB #0	NV	-20	1832.04	2.21	824.53067	---	824-849	PASS
Band5	10MHz	QPSK	20450	50RB #0	NV	-10	1659.77	2.00	824.53015	---	824-849	PASS
Band5	10MHz	QPSK	20450	50RB #0	NV	0	1538.78	1.86	824.53547	---	824-849	PASS
Band5	10MHz	QPSK	20450	50RB #0	NV	10	1447.93	1.75	824.53279	---	824-849	PASS
Band5	10MHz	QPSK	20450	50RB #0	NV	20	1442.47	1.74	824.52848	---	824-849	PASS
Band5	10MHz	QPSK	20450	50RB #0	NV	30	1366.63	1.65	824.52835	---	824-849	PASS
Band5	10MHz	QPSK	20450	50RB #0	NV	40	1335.99	1.61	824.53384	---	824-849	PASS
Band5	10MHz	QPSK	20450	50RB #0	NV	50	1183.77	1.43	824.53264	---	824-849	PASS
Band5	10MHz	QPSK	20600	50RB #0	NV	-30	1925.24	2.28	---	848.47826	824-849	PASS
Band5	10MHz	QPSK	20600	50RB #0	NV	-20	1808.40	2.14	---	848.47205	824-849	PASS
Band5	10MHz	QPSK	20600	50RB #0	NV	-10	1783.07	2.11	---	848.47468	824-849	PASS
Band5	10MHz	QPSK	20600	50RB #0	NV	0	1797.22	2.13	---	848.483	824-849	PASS



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Band5	10MH z	QPSK	20600	50RB #0	NV	10	1755. 03	2.08	---	848.4 7999	824-8 49	PASS
Band5	10MH z	QPSK	20600	50RB #0	NV	20	1493. 51	1.77	---	848.4 7616	824-8 49	PASS
Band5	10MH z	QPSK	20600	50RB #0	NV	30	1225. 97	1.45	---	848.4 7717	824-8 49	PASS
Band5	10MH z	QPSK	20600	50RB #0	NV	40	976.4 2	1.16	---	848.4 7352	824-8 49	PASS
Band5	10MH z	QPSK	20600	50RB #0	NV	50	984.3 6	1.17	---	848.4 8233	824-8 49	PASS

---END---